

Confidential Release

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Part 23

MCI Exhibits
1-48

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C:\123R24\LCATR098\FACTORS		LOOP COST ANALYSIS TOOL		Belcore
TABLE - FACTORS SHEET 1 / 1		INVESTMENT RELATED FACTOR TABLES FOR ANNUALIZATION FACTORS		LCAT Rel: 1.0.4 Issued: 3/31/95
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996	STUDY YEAR: 1996	STUDY YR: 1996
CITY / AREA: CINCINNATI		TEST CASE: 1		LAST UPDATE: 17-Jan-97
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - RESIDENCE ISDN		TIME: 15:22

plant list	PRICE INDEX	ANNUAL COST
LAND	1.0000	0.2322
BUILDING	1.0000	0.2937
BLDG ENTRANCE CABLE	1.0000	0.3922
INTRABLDG CABLE	1.0000	0.3922
AERIAL CABLE (COPPER)	1.0000	0.4033
BURIED CABLE (COPPER)	1.0000	0.3467
UNDERGROUND (CU) CA.	1.0000	0.3683
CO EQPT - LOW CAP TERM	1.0000	0.3881
CO EQPT - LOW CAP CHAN	1.0000	0.3881
CO EQPT - HI CAP TERM	1.0000	0.3881
CO EQPT - HI CAP CHAN	1.0000	0.3881
CO EQPT - ANALOG SW	1.0000	0.0000
CO EQPT - DIGITAL SW	1.0000	0.3458
AERIAL CABLE (FIBER)	1.0000	0.2983
BURIED CABLE (FIBER)	1.0000	0.2724
UNDERGROUND (FO) CA.	1.0000	0.2689
CONNECTORS	1.0000	0.3881
MISC. COM EQP & PWR	1.0000	0.3881
POLE LINE	1.0000	0.3807
CONDUIT	1.0000	0.2521

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C:\123R24\LCATR098\INVEST		LOOP COST ANALYSIS TOOL				Bellcore (R)	
TABLE - EQUIP_INV Sheet 1 of 1		DATA REFERENCE TABLE EQUIPMENT & OTHER INVESTMENTS FOR				LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL		INVESTMENT YEAR: 1996				STUDY YR: 1996	
CITY / AREA : CINCINNATI		SERVICE LEVEL: NARBAND				TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - RESIDENCE ISDN				LAST UPDATE: 24-Oct-96 10:41	
EQUIPMENT INVESTMENT (Including Engineer, Furnish, & Install Costs)							
		CENTRAL OFFICE			REMOTE LOCATION		
		LINE	CHANNEL	TERMINAL	CHANNEL	TERMINAL	
AIR DRYERS INVESTMENT:							
For an AERIAL Installed Cable Pair				\$ 0.00			
For a BURIED Installed Cable Pair				\$ 0.00			
For an UNDERGROUND Installed Cable Pair				\$ 0.00			
CENTRAL OFFICE TERMINATION INVESTMENT :							
For each cable pair associated with twisted pair copper cable				\$ 0.00			
For each per cable pair associated with digital loop carrier technology				\$ 0.00			
COPPER LOOP CARRIER UNIT CIRCUIT INVESTMENT by SERVICE LEVEL :							
For each line repeater for one copper digroup (not svc lev)			\$ 0.00				
For an Office Repeater Bay for a T1 Line			\$ 0.00				
For a Universal DLC Equipment Arrangement			\$ 0.00	\$ 361.90	\$ 39.17	\$ 348.82	\$ 141.70
For an Integrated DLC Equipment Arrangement			\$ 0.00	\$ 0.00	\$ 0.00	\$ 348.82	\$ 141.70
FIBER OPTIC MULTIPLEXERS UNIT CIRCUIT INVESTMENT by SERVICE LEVEL :							
1. For a Hub with nonFiber Extensions or nonHub Arrangement			\$ 49.18		\$ 1.66	\$ 53.79	\$ 200.00
2. For a Hub with Fiber Extensions or a Fiber Ended Arrangement			\$ 0.00		\$ 0.00	\$ 53.79	\$ 0.00
3. For a Fiber HUB and Fiber Remote Terminal Arrangement						\$ 0.00	\$ 0.00
4. For Fiber Ring Hub Arrangements (Extensions)						\$ 0.00	\$ 0.00
CEV HOUSING per CIRCUIT by SERVICE LEVEL :							
For CEV's used as fiber hubs for FO Multiplexer equipment							\$ 0.00
For CEV's used as remote terminals for CDLC equipment							\$ 0.00

[Unit Investment denotes average weighted unit E,F,I Investment at DS0, DS1, or DS3 service equiv.]

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C:\123R24\LCATR098\UNVEST.WK1

TABLE - EQUIP INV

HELP INFORMATION

Bellicore™

LCAT Rel: 1.0.4

Issued: 07/31/95

<u>LCAT Commands</u>	Description
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This Command will allow the User –

EDIT To Enter Values with DIRECT Input on a cell by cell basis.

CLEAR To Erase the Display's Current Data Values, then Perform DIRECT Input.

Line Items	Description
------------	-------------

This Equipment Item Represents -

Ofc Rept Bay **A Wideband Special Service Circuits Requirement, included in other DLC COE LINE.**

Integrated DLC The DLC Class for Source Bandwidth from Digital Line Cards or DSX Term for DS1.

Universal DLC The DLC Class for Source Bandwidth from Analog Subs Line Cards or Voice Grade Term.

See Circuit Designs :

COE Field Item 1 FITL/CDLC Hub Extension or FITL non-Hubbing Arrangements, CO End Equip. 2,3,4 & 6

REM Field Item 1	FITL/CDLC Hub Extension or FITL non-Hubbing Arrangements, REM End Equip.	2,3,4 & 6
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COE Field Item 2	FITL Hubbed Arrangements, CO to HUB Span Equip. CO End.	1 & 5
------------------	---	-------

REM Field Item 2 FITL Hubbed Arrangements, CO to HUB Span Equip, Remote Site 1 & 5

REM Field Item 3 FTL Hubbed Arrangements, HUB to RT Span Equip, Remote Sites. GIVEN

REM Field Item 4 FTL Hubbed Arrangements, RING Span Equip, HUB Sites.

NOTE: THE DATA VALUES FOR THESE ITEMS SHOULD ALWAYS REPRESENT THE CIRCUIT EQUIVALENTS FOR THE BANDWIDTH DELIVERY OF THE STUDIED SERVICE

***** THE INPUT DATA NAMES IN RED CROSS--REFERENCE TO THEIR DATA CATALOG NAMES *****

*****PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION*****

PRESS <ENTER> KEY TO RETURN TO THE MAIN MENU

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C:\123R24\LCATR098\LOADING		LOOP COST ANALYSIS TOOL		Bellcore [®]
TABLE - ADDNL INV Sheet 1 of 2 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE: OHIO		INVESTMENT RELATED FACTOR TABLES ADJUSTMENT AND LOADING FACTORS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - RESIDENCE ISC		LCAT Rel: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-95 TIME: 10:44
PLANT UTILIZATION FACTORS:				
Land	1.0000	ALL Non-Traffic Sensitive Equipment		1.0000
Building	1.0000	ALL Digital Loop Carrier Equip., or		0.7000
ALL Copper Cables, or		CO DLC Channel Unit		0.7000
Copper Feeder Cable	0.6000	REM DLC Channel Unit		0.7000
Copper Distribution Cable	0.3500	CO DLC Multiplex System		0.7000
Copper Entrance Cable	1.0000	REM DLC Multiplex System		0.7000
Copper Building Cable	0.3500	CO Digital Signal Crossconnect Bay		0.7000
Copper Building Terminal	0.3500	REM Digital Signal Crossconnect Bay		0.7000
ALL Fiber Cables, or		ALL Fiber Optic Multiplex Equip., or		1.0000
Fiber Feeder Cable	0.3300	CO Fiber Optic Channel Unit		1.0000
Fiber Distribution Cable		REM Fiber Optic Channel Unit		1.0000
Fiber Entrance Cable		CO Fiber Optic Multiplex System		1.0000
Fiber Building Cable		REM Fiber Optic Multiplex System		1.0000
Fiber Building Terminal		CO Lightguide Terminating Equipment		1.0000
		REM Lightguide Terminating Equipment		1.0000
Poles	1.0000	Remote Housing: CEX		1.0000
Conduit	1.0000	PC Hut		1.0000
		Comm. Svc. Cab.		1.0000

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TABLE - ADDNL_INV
Sheet 1 of 2

HELP SCREEN**Belcore** (R)

LCAT Rel : 1.0.4

Issued : 3/31/95

NOTE :

- ① THIS VALUE REPRESENTS GLOBAL (CATEGORY 1) INPUT FOR THESE ITEMS.
AN ENTRY SETS CATEGORY 2 VALUES TO THE CATEGORY 1 VALUE BY THE SYSTEM.
- ② THE VALUES IN THIS TABLE REPRESENT DETAIL FACTORS (CATEGORY 2 VALUES).
THESE ITEMS ARE APPLIED IN THE COST EQUATIONS FOR THE COMPONENT THEY IDENTIFY.
ENTRIES NEGATE CATEGORY 1 VALUES BY THE SYSTEM.
- ③ THE DESIGNATION "CO" DENOTES CENTRAL OFFICE LOCATED.
THE DESIGNATION "REM" DENOTES REMOTE SITE LOCATED.

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***** PLEASE REFER TO THE USER MANUAL FOR INFORMATION *****
***** CONCERNING ANY OTHER DATA INPUT ITEMS ON THIS DISPLAY *****

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

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C:\123R24\LCATR098\LOADING		LOOP COST ANALYSIS TOOL		Bellcore (R)																																																																		
TABLE - ADDNL INV Sheet 2 of 2 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE: OHIO		INVESTMENT RELATED FACTOR TABLES ADJUSTMENT AND LOADING FACTORS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - RESIDENCE ISDN		LCAT Ver: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 10:44																																																																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">SEGMENT</th> <th style="width: 10%;">DISTRIBUTION</th> <th style="width: 10%;">FEEDER</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td colspan="6">POLE LOADINGS:</td> </tr> <tr> <td>Copper Cable Pole Investment Factor</td> <td>0.2530</td> <td>0.2530</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Copper Cable Pole Unit Investment</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Fiber Cable Pole Investment Factor</td> <td>0.1965</td> <td>0.1965</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Fiber Cable Pole Unit Investment</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="6">CONDUIT LOADINGS:</td> </tr> <tr> <td>Copper Cable Conduit Investment Factor</td> <td>0.5165</td> <td>0.5165</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Copper Cable Conduit Unit Investment</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Fiber Cable Conduit Investment Factor</td> <td>0.5232</td> <td>0.5232</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Fiber Cable Conduit Unit Investment</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					SEGMENT	DISTRIBUTION	FEEDER				POLE LOADINGS:						Copper Cable Pole Investment Factor	0.2530	0.2530				Copper Cable Pole Unit Investment						Fiber Cable Pole Investment Factor	0.1965	0.1965				Fiber Cable Pole Unit Investment						CONDUIT LOADINGS:						Copper Cable Conduit Investment Factor	0.5165	0.5165				Copper Cable Conduit Unit Investment						Fiber Cable Conduit Investment Factor	0.5232	0.5232				Fiber Cable Conduit Unit Investment					
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TABLE - ADDNL_INV

Sheet 2 of 2

HELP SCREEN

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LCAT Rel: 1.0.4

Issued: 3/31/95

Copper Cable Pole Investment Factor	cpiff	_dst	_fdr	Based on aerial copper cable investment relationship to pole
Copper Cable Pole Unit Investment	cpufi	_dst	_fdr	Per unit length of aerial copper cable effective pair feet placed.
Fiber Cable Pole Investment Factor	fpiff	_dst	_fdr	Based on aerial fiber cable investment relationship to pole
Fiber Cable Pole Unit Investment	fpufi	_dst	_fdr	Per unit length of aerial fiber cable effective pair feet placed.
Copper Cable Conduit Investment Factor	cucff	_dst	_fdr	Based on underground copper cable investment relationship to conduit investment
Copper Cable Conduit Unit Investment	cucfi	_dst	_fdr	Per unit length of underground copper cable effective pair feet placed.
Fiber Cable Conduit Investment Factor	fucff	_dst	_fdr	Based on underground fiber cable investment relationship to conduit investment
Fiber Cable Conduit Unit Investment	fucfi	_dst	_fdr	Per unit length of underground fiber cable effective pair feet placed.

NOTES

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CA123R24\LCAT098\SPAN		LOOP COST ANALYSIS TOOL		Bellcore (R)
INPUT - PLANT_CHAR. Sheet 1 / 5		LOOP FACILITY INPUT LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS FOR		LCAT Rel: 1.0.4 Issued: 07/31/95
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - RESIDENCE ISDN		STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-95 TIME: 10:49
FLAT RATE BASIS DATA WITHOUT COST BANDS FOR A NETWORK CIRCUIT CASE STUDY				
LOOP TOPOLOGY		ACTION SEGMENT		
Loop FEEDER Network Configuration Is (S)tar Or (R)ing		PRIMARY STAR		
Average Number Of Hubs In Each Ring		PRIMARY NA		
Loop DISTRIBUTION Network Configuration Is (S)tar or (B)us		DISTRIBUTION STAR		
SPAN LENGTHS				
①	Average Distance From the Central Office to the Service Access Point	TOTAL LOOP 6825.0		
②	Average Distance From the Serving Area Interface to the Service Access Point	DISTRIBUTION 1000.0		
③	Average Distance From the Remote Terminal to the Serving Area Interface	SUB-PRIMARY 1300.0		
④	Average Distance From the Central Office to the Fiber Hub or S.A.I.	PRIMARY 1541.0		
⑤	Average Distance From the Fiber Hub to the Remote Terminal	PRIMARY-EXTENSION		
LOOP LENGTH AT EACH COST BAND		DISTRIBUTION OF COST BANDS ON THE NETWORK		
BAND 1		BAND 1		CONFIDENTIAL NOTICE: MUST BE RELEASED TO PUBLIC PRIOR TO RELEASE TO PUCO PROVIDED TO PUCO
BAND 2		BAND 2		
BAND 3		BAND 3		
BAND 4		BAND 4		
BAND 5		BAND 5		
LAST 6825.0		LAST 1.0000		1.0000 Hint

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C:\123R24\LCATR098\SPAN		LOOP COST ANALYSIS TOOL		Bellcore [®]	
INPUT - PLANT_CHAR. Sheet 1 / 1		LOOP FACILITY INPUT LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS FOR		LCAT Rel : 1.0.4 Issued : 07/31/95	
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR : 1996		STUDY YR : 1996	
CITY / AREA: CINCINNATI		LOOP STUDY YEAR : 1996		TEST CASE : 1	
STATE / PROV: OHIO		SERVICE CLASS : BAND 3 - RESIDENCE ISDN		LAST UPDATE : 24-Oct-96	
				TIME : 10:49	
<u>FLAT RATE BASIS DATA WITHOUT COST BANDS</u> <u>FOR A NETWORK CIRCUIT CASE STUDY</u>					
<u>LOOP LENGTH</u> ① 6825 FEET					
DROP DISTRIBUTION FEEDER ② ③					
1981 FEET 4844 FEET					
SUB-PRIMARY FIBER DISTRIBUTION PRIMARY					
④ ⑤ ⑥					
FIBER HUB					
NETWORK INTERFACE SERVICE ACCESS POINT SERVING AREA INTERFACE REMOTE TERMINAL (LOOP MULTIPLEX INTERFACE) REMOTE NODE (LOOP TRANSFER) FIBER HUB END OFFICE					

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C:\123R24\LCATR098\SPAN		LOOP COST ANALYSIS TOOL		Bellcore [®]	
INPUT - PLANT CHAR. Sheet 1 of 2		LOOP FACILITY INPUT HELP SCREEN		LCAT Rel : 1.0.4 Issued : 07/31/95	
AVERAGE NETWORK STUDY - This mode of LCAT is used where the cost study may be broad in scope and lack sufficient detail data to use the Loop OSP cost calculators on Sheets 2, 3, and 4. Instead, it relies on table data from the FACILITY file, representing jurisdictional average value mixes or proportions. Input for these values is placed on Sheet 1.					
INDIVIDUAL CIRCUIT STUDY - This mode of LCAT is used to cost study circuit specifics on an Individual Circuit Basis for Request For Proposals, Special Constructions, and CENTREX-like Services. Data input is usually actual per the circuit configuration's span by span requirements as detailed by Product Management. This mode will require the use of the Loop OSP calculators on Sheets 2, 3, and 4.					
DATA SAMPLE NETWORK STUDY - This mode of LCAT functions well with the Loop OSP cost calculators on Sheets 2, 3, and 4. The data samples are inputted on the sheets cumulatively and cost calculated directly. Then the weightings formulae are applied to create an average weighted Loop cost per pair foot.					
BANDWIDTH AVERAGING - This feature of LCAT permits study level weighting of fiber multiplexer bandwidth transport. The range of multiplexers goes from 1.5 Mbps through 1.7 Gbps and designating the mix of usage develops a more precise unit investment to the feeder calculations.					
***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES ***** ***** PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION ***** CONFIDENTIAL NOTICE MUST BE GIVEN TO PUBLIC PRIOR TO DISCLOSURE TO PUCO PRESS 'ENTER' TO RETURN TO THE MAIN MENU					

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C:\123R24\LCAT098\SPAN		LOOP COST ANALYSIS TOOL		Bellcore [®]	
INPUT = PLANT_CHAR. Sheet 2 of 2		HELP SCREEN		LCAT Rel : 1.0.4 Issued : 07/31/95	
COST DETAILS	When the Loop Study is specified as <u>DISTANCE SENSITIVE</u>, the data required is inputted as part of STUDY SETUP input and the ROUTE TO AIR RATIO [B] on WORKSHEET F and the resultant Rate Band delimiters are copied into the RATE BANDS field on SCREEN 1 by the System. The SPAN LENGTHS data is input by the User. When the Loop Study is specified as <u>FLAT RATE</u>, then ALL the data required is input on SCREEN 1 in the COST BANDS field and/or SPAN LENGTHS field by the User.				
LOOP TOPOLOGY	When the Loop Topology (circuit layout format) for the Feeder Layer is specified as <u>STAR</u>, the Primary Feeder (C.O. to HUB) is variable and the Feeder Extension (HUB to R.T.) is held as an average length link. When the Loop Topology is specified as <u>RING</u>, the Primary Feeder is held as an average length link and the Feeder Extension is variable. This Input Sheet is adjusted to each possibility. The SPAN LENGTHS input cells are rearranged to support the Topology specified and only request the necessary data that is required.				
***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES ***** ***** PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION ***** PRESS 'ENTER' TO RETURN TO THE MAIN MENU					

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C:\123R24\LCATR058\SPAN		LOOP COST ANALYSIS TOOL				Bellcore (R)	
INPUT - PLANT CHAR.		LOOP FACILITY INPUT				LCAT Rel: 1.0.4	
Sheet 2a / 5		FIBER OPTIC CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER				Issued: 07/31/95	
COMPANY: 0		INVESTMENT YEAR: 1996				STUDY YR: 1996	
CITY / AREA: 0		LOOP STUDY YEAR: 1996				TEST CASE: 1	
STATE / PROV: 0		SERVICE CLASS: BAND 3 - RESIDENCE ISDN				LAST UPDATE: 24-Oct-96	
						TIME: 10:49	
NETWORK CIRCUIT LAYOUT STUDIES				WORKSHEET A			
		AERIAL FIBER		BURIED FIBER		UNDERGROUND FIBER	
CAPACITY		CUMULATIVE FEEDER LENGTH	EFFECTIVE LENGTH BY PAIR FOOT	CUMULATIVE FEEDER LENGTH	EFFECTIVE LENGTH BY PAIR FOOT	CUMULATIVE FEEDER LENGTH	EFFECTIVE LENGTH BY PAIR FOOT
[C]	idx	[D _A]	[E _A]	[D _B]	[E _B]	[D _U]	[E _U]
4 FIBER CABLE	2 pr		0.0		0.0		0.0
6 FIBER CABLE	3 pr		0.0		0.0		0.0
12 FIBER CABLE	6 pr		0.0		0.0		0.0
18 FIBER CABLE	9 pr		0.0		0.0		0.0
24 FIBER CABLE	12 pr		0.0		0.0		0.0
36 FIBER CABLE	18 pr		0.0		0.0		0.0
48 FIBER CABLE	24 pr		0.0		0.0		0.0
60 FIBER CABLE	30 pr		0.0		0.0		0.0
72 FIBER CABLE	36 pr		0.0		0.0		0.0
84 FIBER CABLE	42 pr		0.0		0.0		0.0
96 FIBER CABLE	48 pr		0.0		0.0		0.0
144 FIBER CABLE	72 pr		0.0		0.0		0.0
192 FIBER CABLE	96 pr		0.0		0.0		0.0
216 FIBER CABLE	108 pr		0.0		0.0		0.0
CUMULATIVE LENGTHS OF FEEDER:				EFFECTIVE CABLE LENGTHS BY PAIR FOOT:			
AERIAL FIBER SUBTOTAL		0		AERIAL FIBER SUBTOTAL		0.0	
BURIED FIBER SUBTOTAL		0		BURIED FIBER SUBTOTAL		0.0	
UNDGRD FIBER SUBTOTAL		0		UNDGRD FIBER SUBTOTAL		0.0	
FIBER SUBTOTAL		0		FIBER SUBTOTAL		0.0	

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C:\123R24\LCATR098\SPAN		LOOP COST ANALYSIS TOOL				Belcore (R)																																																																																																																																																																							
PLANT CHAR - WORKSHEET 2B Sheet 2b / 5		LOOP FACILITY INPUT FIBER OPTIC CABLE SPAN INVESTMENT FOR THE FEEDER LAYER FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996				LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-95 TIME: 10:49																																																																																																																																																																							
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE: OHIO		SERVICE CLASS: BAND 3 - RESIDENCE ISDN																																																																																																																																																																											
NETWORK CIRCUIT LAYOUT STUDIES				WORKSHEET B																																																																																																																																																																									
EFFECTIVE CHANNEL LENGTH BY CABLE PAIR FOOT [A] = CUMULATIVE INVESTMENT BY CABLE CHANNEL FOOT [B] = $\frac{[E] \text{ WKSH A}}{[A]} \div \frac{[F] \text{ WKSH C}}{[C]} \times \text{UNIT INV FACILITY WKSH B}$																																																																																																																																																																													
<table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th colspan="2" rowspan="2">For these sizes ...</th> <th rowspan="2">CAPACITY [C]</th> <th rowspan="2">idx</th> <th colspan="2">AERIAL FIBER</th> <th colspan="2">BURIED FIBER</th> <th colspan="2">UNDERGROUND FIBER</th> </tr> <tr> <th>[A]</th> <th>[B]</th> <th>[A]</th> <th>[B]</th> <th>[A]</th> <th>[B]</th> </tr> </thead> <tbody> <tr><td>4</td><td>FIBER CABLE</td><td>2 pr</td><td></td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td></tr> <tr><td>6</td><td>FIBER CABLE</td><td>3 pr</td><td></td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td></tr> <tr><td>12</td><td>FIBER CABLE</td><td>6 pr</td><td></td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td></tr> <tr><td>18</td><td>FIBER CABLE</td><td>9 pr</td><td></td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td></tr> <tr><td>24</td><td>FIBER CABLE</td><td>12 pr</td><td></td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td></tr> <tr><td>36</td><td>FIBER CABLE</td><td>18 pr</td><td></td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td></tr> <tr><td>48</td><td>FIBER CABLE</td><td>24 pr</td><td></td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td></tr> <tr><td>60</td><td>FIBER CABLE</td><td>30 pr</td><td></td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td></tr> <tr><td>72</td><td>FIBER CABLE</td><td>36 pr</td><td></td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td></tr> <tr><td>84</td><td>FIBER CABLE</td><td>42 pr</td><td></td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td></tr> <tr><td>96</td><td>FIBER CABLE</td><td>48 pr</td><td></td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td></tr> <tr><td>144</td><td>FIBER CABLE</td><td>72 pr</td><td></td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td></tr> <tr><td>192</td><td>FIBER CABLE</td><td>96 pr</td><td></td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td></tr> <tr><td>216</td><td>FIBER CABLE</td><td>108 pr</td><td></td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td><td>0.000</td><td>\$0.00</td></tr> <tr> <td colspan="4" style="text-align: right;">SUBTOTAL</td> <td></td> <td>\$0.00</td> <td></td> <td>\$0.00</td> <td></td> <td>\$0.00</td> </tr> </tbody> </table>								For these sizes ...		CAPACITY [C]	idx	AERIAL FIBER		BURIED FIBER		UNDERGROUND FIBER		[A]	[B]	[A]	[B]	[A]	[B]	4	FIBER CABLE	2 pr		0.000	\$0.00	0.000	\$0.00	0.000	\$0.00	6	FIBER CABLE	3 pr		0.000	\$0.00	0.000	\$0.00	0.000	\$0.00	12	FIBER CABLE	6 pr		0.000	\$0.00	0.000	\$0.00	0.000	\$0.00	18	FIBER CABLE	9 pr		0.000	\$0.00	0.000	\$0.00	0.000	\$0.00	24	FIBER CABLE	12 pr		0.000	\$0.00	0.000	\$0.00	0.000	\$0.00	36	FIBER CABLE	18 pr		0.000	\$0.00	0.000	\$0.00	0.000	\$0.00	48	FIBER CABLE	24 pr		0.000	\$0.00	0.000	\$0.00	0.000	\$0.00	60	FIBER CABLE	30 pr		0.000	\$0.00	0.000	\$0.00	0.000	\$0.00	72	FIBER CABLE	36 pr		0.000	\$0.00	0.000	\$0.00	0.000	\$0.00	84	FIBER CABLE	42 pr		0.000	\$0.00	0.000	\$0.00	0.000	\$0.00	96	FIBER CABLE	48 pr		0.000	\$0.00	0.000	\$0.00	0.000	\$0.00	144	FIBER CABLE	72 pr		0.000	\$0.00	0.000	\$0.00	0.000	\$0.00	192	FIBER CABLE	96 pr		0.000	\$0.00	0.000	\$0.00	0.000	\$0.00	216	FIBER CABLE	108 pr		0.000	\$0.00	0.000	\$0.00	0.000	\$0.00	SUBTOTAL					\$0.00		\$0.00		\$0.00
For these sizes ...		CAPACITY [C]	idx	AERIAL FIBER		BURIED FIBER						UNDERGROUND FIBER																																																																																																																																																																	
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18	FIBER CABLE	9 pr		0.000	\$0.00	0.000	\$0.00	0.000	\$0.00																																																																																																																																																																				
24	FIBER CABLE	12 pr		0.000	\$0.00	0.000	\$0.00	0.000	\$0.00																																																																																																																																																																				
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48	FIBER CABLE	24 pr		0.000	\$0.00	0.000	\$0.00	0.000	\$0.00																																																																																																																																																																				
60	FIBER CABLE	30 pr		0.000	\$0.00	0.000	\$0.00	0.000	\$0.00																																																																																																																																																																				
72	FIBER CABLE	36 pr		0.000	\$0.00	0.000	\$0.00	0.000	\$0.00																																																																																																																																																																				
84	FIBER CABLE	42 pr		0.000	\$0.00	0.000	\$0.00	0.000	\$0.00																																																																																																																																																																				
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SUBTOTAL					\$0.00		\$0.00		\$0.00																																																																																																																																																																				

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C:\123R24\LCATR098\SPAN			LOOP COST ANALYSIS TOOL									Bellcore		
PLANT CHAR - WORKSHEET 3B Sheet 3b / 5			LOOP FACILITY INPUT COPPER CABLE SPAN INVESTMENT FOR THE FEEDER LAYER FOR									LCAT Rel: 1.0.4 Issued: 07/31/95		
COMPANY: CINCINNATI BELL TEL.			INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996									STUDY YR: 1996		
CITY / AREA: CINCINNATI			SERVICE CLASS: BAND 3 - RESIDENC									TEST CASE: 1		
STATE: OHIO												LAST UPDATE: 24-Oct-96		
												TIME: 10:49		
NETWORK CIRCUIT LAYOUT STUDIES												WORKSHEET B		
CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT														
CABLE SHEATH SIZES			CAPACITY			25 GA.			24 GA.			22 GA.		
		idx				AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40 COPPER CABLE	20 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50 COPPER CABLE	25 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80 COPPER CABLE	40 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100 COPPER CABLE	50 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140 COPPER CABLE	70 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200 COPPER CABLE	100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400 COPPER CABLE	200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600 COPPER CABLE	300 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800 COPPER CABLE	400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 COPPER CABLE	600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 COPPER CABLE	900 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2400 COPPER CABLE	1200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3000 COPPER CABLE	1500 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3600 COPPER CABLE	1800 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4200 COPPER CABLE	2100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4800 COPPER CABLE	2400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5400 COPPER CABLE	2700 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6000 COPPER CABLE	3000 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7200 COPPER CABLE	3600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8400 COPPER CABLE	4200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AERIAL CABLE SUBTOTAL			0.00			0.00			0.00			0.00		
BURIED CABLE SUBTOTAL				0.00			0.00			0.00			0.00	
UNDGRD CABLE SUBTOTAL					0.00		0.00				0.00			0.00

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LOOP COST ANALYSIS TOOL

Bellcore

INPUT - PLANT_CHAR.
Sheet 4a / 5LOOP FACILITY INPUT
COPPER CABLE SPAN CHARACTERISTICS FOR THE DISTRIBUTION LAYER
FOR

LCAT Rev: 1.0.4

Issued: 07/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 24-Oct-96

TIME: 10:49

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIOINVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 3 - RESIDENC

WORKSHEET A

NETWORK CIRCUIT LAYOUT STUDIES

CUMULATIVE LENGTHS BY CABLE PAIR FOOT

CABLE SHEATH SIZES	CAPACITY Idx	26 GA.			24 GA.			22 GA.			
		AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	
40 COPPER CABLE	20 pr										
50 COPPER CABLE	25 pr										
80 COPPER CABLE	40 pr										
100 COPPER CABLE	50 pr										
140 COPPER CABLE	70 pr										
200 COPPER CABLE	100 pr										
400 COPPER CABLE	200 pr										
600 COPPER CABLE	300 pr										
800 COPPER CABLE	400 pr										
1200 COPPER CABLE	600 pr										
1800 COPPER CABLE	900 pr										
2400 COPPER CABLE	1200 pr										
3000 COPPER CABLE	1500 pr										
3600 COPPER CABLE	1800 pr										
4200 COPPER CABLE	2100 pr										
4800 COPPER CABLE	2400 pr										
5400 COPPER CABLE	2700 pr										
6000 COPPER CABLE	3000 pr										
7200 COPPER CABLE	3600 pr										
8400 COPPER CABLE	4200 pr										
SUB TOTALS		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTALS				0.0			0.0			0.0	0.0

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C:\123R24\LCATR09B\SPAN		LOOP COST ANALYSIS TOOL						Belcore			
PLANT CHAR - WORKSHEET 4B Sheet 4b / 5		LOOP FACILITY INPUT COPPER CABLE SPAN INVESTMENT FOR THE DISTRIBUTION LAYER FOR						LCAT Rel : 1.0.4 Issued : 07/31/95			
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996						STUDY YR : 1996			
CITY / AREA: CINCINNATI		SERVICE CLASS: BAND 3 - RESIDENC						TEST CASE: 1			
STATE: OHIO								LAST UPDATE: 24-Oct-96			
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET B						TIME: 10:49			
CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT											
CABLE SHEATH SIZES	CAPACITY idx		26 GA.			24 GA.			22 GA.		
			AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40 COPPER CABLE	20 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50 COPPER CABLE	25 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60 COPPER CABLE	40 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100 COPPER CABLE	50 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140 COPPER CABLE	70 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200 COPPER CABLE	100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400 COPPER CABLE	200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600 COPPER CABLE	300 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800 COPPER CABLE	400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 COPPER CABLE	600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 COPPER CABLE	900 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2400 COPPER CABLE	1200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3000 COPPER CABLE	1500 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3600 COPPER CABLE	1800 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4200 COPPER CABLE	2100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4800 COPPER CABLE	2400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5400 COPPER CABLE	2700 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6000 COPPER CABLE	3000 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7200 COPPER CABLE	3600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8400 COPPER CABLE	4200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AERIAL CABLE SUBTOTAL			0.00			0.00			0.00		
BURIED CABLE SUBTOTAL				0.00			0.00			0.00	
UNDGRD CABLE SUBTOTAL					0.00			0.00			0.00

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C:\123R24\LCATR098\SPAN		LOOP COST ANALYSIS TOOL							Bellcore [®]	
INPUT - PLANT_CHAR. Sheet 5 / 5		LOOP FACILITY INPUT DIGITAL LOOP CARRIER CABLE PAIR EQUIVALENTS AND MIX FOR							LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - RESIDENCE / SDN							STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 10:49	
FIBER BANDWIDTH TRANSMISSION FLOW IS: ☒ UNIDIRECTIONAL ☐ BIDIRECTIONAL		LEVEL OF SERVICE: NARBAND								
BITRATE INDEX	1	2	3	4	5	6	7	SERVICE	PROTECTION	WEIGHTED
FIBER BANDWIDTH	45 Mbps	90 Mbps	155 Mbps	180 Mbps	0	0	0	LEVEL		EQUIVALENT
MUX DS3 MULTIPLIER	1	2	3	4	0	0	0			CHANNELS
VOICE GRADE CHANNELS	672	1344	2016	2688	0	0	0	MULTIPLE [SLM]	n: 1 [E]	PER FO PAIR [F]
FEEDER - PRIMARY	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1	1979.04
FEEDER - EXTENSION	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000			1979.04
NOTICE MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC PROVIDED TO PUCO										
FOOTNOTES 1 Where Service Level Multiple EQUALS {1 for NARBAND, 28 for WIDEBAND, 672 for BRDBAND} TIMES {2 for Unidirectional and 1 for Bidirectional}. 2 Where Wtd Eqv Chan per FO Pr [F] EQUALS {The Avg Wtd VGE for BR1 -> 7} DIVIDED BY {The [SLM]} TIMES {1 PLUS 1 OVER PROT [E]}										
0										

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PLANT CHAR. - WORKSHEET DS
Sheet 1 / 1COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 24-Oct-96

TIME: 10:49

WORKSHEET DS

DIGITAL SIGNAL TABLE (digsig.tbl)						
SELECT	MODE	HIERARCHY	BNDWID	DS1MULT	DS3MULT	VGE MEDIA
0						
1		DS111.5 Mbps		1	0.04	24 BIDIR, 2WCU CA
2	MODE3	DS111.5 Mbps		1	0.04	24 UNDIR, 4WCU CA
3		V11.511.5 Mbps		1	0.04	24 UNDIR, FIBER
4		V1212 Mbps		1	0	1 UNDIR, FIBER
5		E112 Mbps		1	0.06	30 BIDIR, 2WCU CA
6	MODE1	DS1C13.2 Mbps NA				48 BIDIR, 2WCU CA
7	MODE2	DS1C13.2 Mbps		2	0.07	48 BIDIR, 2WCU CA
8		V1313.2 Mbps		2	0.07	56 UNDIR, FIBER
9		E14 Mbps		2	0	60
10		DS216.3 Mbps		4	0.14	72 BIDIR, 2WCU CA
11	MODE4	DS216.3 Mbps NA			0	72 BIDIR, 2WCU CA
12		V1616.3 Mbps		4	0.14	84 UNDIR, FIBER
13		E218 Mbps		4	0.25	120 BIDIR, 2WCU CA
14		E3134 Mbps		16	1	480
15	X	DS3145 Mbps		28	1	672 BIDIR, 2WCU CA
16	STS1	OC1150 Mbps		28	1	672 UNDIR, FIBER
17	X	90 Mbps		2	2	1344 UNDIR, FIBER
18		90 Mbps		2	2	1344 BIDIR, MW RADIO
19		DS41135 Mbps		3	3	2016 UNDIR, FIBER
20		135 Mbps		3	3	2016 BIDIR, MW RADIO
21		DS4NA139 Mbps		3	3	2016 UNDIR, FIBER
22		E4140 Mbps		3	3	1920 UNDIR, FIBER
23		14M139 Mbps		6	6	4032 BIDIR, COAX
24		PT40139 Mbps		6	6	4032 BIDIR, COAX
25	X	OC3155 Mbps		3	3	2016 UNDIR, FIBER
26	X	180 Mbps		4	4	2592 UNDIR, FIBER
27		1417 Mbps		9	9	6048 UNDIR, FIBER
28		OC91466 Mbps		9	9	6048 UNDIR, FIBER
29		OC121560 Mbps		12	12	7680 UNDIR, FIBER
30		565 Mbps		12	12	8064 UNDIR, FIBER
31		1.2 Gbps		24	24	16128 UNDIR, FIBER
32		1.7 Gbps		36	36	24192 UNDIR, FIBER
33		OC241.8 Gbps		24	24	24192 UNDIR, FIBER
34		2.5 Gbps		24	24	34560 UNDIR, FIBER
35						
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99						
0	1	2	3	4	5	6
OFFSET						

PLANT CHAR. - WORKSHEET F
Sheet 1 of 1

LOOP LENGTH DEVELOPMENT WORKSHEET

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR.: 1996

TEST CASE: 1

LAST UPDATE: 24-Oct-95

TIME: 10:49

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE: OHIO

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 3 - RESIDENCE
WORKSHEET F

[A] BAND NUMBER [C]	DISTANCE INCREMENTS: [B] NUMBER OF BANDS: TOTAL WORKING FEET [D=input]	0 / 4 MILE BETWEEN BANDS 0 TO BE CARRIED INTO THE STUDY TOTAL WORKING FEET [E=(B*D)]	[R] TOTAL AIR FEET [F=A*C*K]	ROUTE TO AIR RATIO: 1.539947 UNIT MILE / FEET CONSTANT: 1320 LOOP LENGTH @ MIDPOINT [G (see note)]	Working FEET @ MIDPOINT [H=G*R]
1		0			0
2		0			0
3		0			0
4		0			0
5		0			0

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NOTE - SPAN MIDPOINT [G] equals the $\text{SQRT}((F_{\text{CURR}}^2/2) + (F_{\text{PREV}}^2/2))$

ERROR MESSAG 0

CA:123R24/LCATR098/SPAN		LOOP COST ANALYSIS TOOL		Bellcore (R)
PLANT CHAR. - WORKSHEET SA				LCAT R/E: 1.0.4
Sheet 1 / 1				Issued: 07/31/95
COMPANY: CINCINNATI BELL TEL.				STUDY YR: 1996
CITY / AREA: CINCINNATI				TEST CASE: 1
STATE / PROV: OHIO		WORKSHEET SA		LAST UPDATE: 24-Oct-96
				TIME: 10:49

Sub Feeder Allocation Table

OFFSET	0	1	2	3	4	5	6	7	8	9	10
Sub Feeder Allocation Table	sequin alloc										
cur lplgth	6825										
dlcdepl = 18000	NO COLOCATED	dstopo = BUS									
[B]distspa 1981	dstopo = STAF	dstopo = BUS									
nom_rangcur	disubfeed	onfeedesubfeed	prifeeder	subfeedprifeedesubfeed	prifeeder dif						
[C]	[D=C-I]	[E]	[F=D-E]	[G]	[H=D-G]	[I]	[J=C-I]	[K]	[L=C-K]	[M=A-C]	
500	0	0	0	0	0	500	0	500	0	6825	
1000	0	0	0	0	0	1000	0	1000	0	6325	
2000	0	0	0	0	0	2000	0	2000	0	5825	
3000	1019	1019	0	1019	0	3000	0	3000	0	4825	
4000	2019	2019	0	2019	0	4000	0	4000	0	3825	
5000	3019	3019	0	3019	0	5000	0	5000	0	2825	
6000	4019	4019	0	4019	0	6000	0	6000	0	1825	
7000	5019	5019	0	5019	0	7000	0	7000	0	825	
8000	6019	6019	0	6019	0	8000	0	8000	0	-1175	
9000	7019	7019	0	7019	0	9000	0	9000	0	-1175	
10000	8019	8019	0	8019	0	10000	0	10000	0	-2175	
11000	9019	9019	0	9019	0	11000	0	11000	0	-3175	
12000	10019	10019	0	10019	0	12000	0	12000	0	-4175	
13000	11019	11019	0	11019	0	13000	0	13000	0	-5175	
14000	12019	12019	0	12019	0	14000	0	14000	0	-6175	
15000	13019	13019	0	13019	0	15000	0	15000	0	-7175	
16000	14019	14019	0	14019	0	16000	0	16000	0	-8175	
17000	15019	15019	0	15019	0	17000	0	17000	0	-9175	
18000	16019	8009.5	8009.5	0	16019	9000	0	16000	0	-11175	
19000	17019	8509.5	8509.5	0	17019	9500	9500	19000	0	-12175	
20000	18019	9009.5	9009.5	0	18019	10000	10000	20000	0	-13175	
80000	78019	15019	82000	1000	77019	16019	88961	1000	79000	-73175	

RULES

ASSUMPTION - Table LOOKUP will select from the NOM RANGE of a CUR LPLGTH intermediate value

If CUR_LPLGTH is

- = < DISTSPAN, then CUR_SEGLGTH^{ost} Equals CUR_LPLGTH - NOM_RANGE difference
- > DISTSPAN and < DLCDEPL, then CUR_SEGLGTH^{star} Equals CUR_LPLGTH - NOM_RANGE difference
- = > DLCDEPL, then CUR_SEGLGTH^{prior} Equals CUR_LPLGTH - NOM_RANGE difference

CUR_SEGLGTH - Calculation Assumptions

The DISTSPAN can not exceed the DLCDEPL value input on CRITERIA.

Therefore, set the DLCDEPL at the DISTSPAN to get an ALL FIBER Network.

OHIO ONLY
3 Geographic Areas
ISDN

10/10/96 Revised

Band 1

		Residence			Business		
		Average F1 Length	Average F2 Length	Average Loop	Average F1 Length	Average F2 Length	Average Loop
		A	B	C	D	E	F
1	0-18,000	8,298	1,390	9,688	7,007	971	7,977
2	# Of Entries	144			285		
3	18,001-INFINITY	17,880	2,925	20,805	19,201	2,119	21,320
4	# Of Entries	16			8		
5	Ratio						
6	0-18,000	0.8369			0.9378		
7	18,001-INFINITY	0.1631			0.0622		
		1.0000			1.0000		

Band 2

8	0-18,000	8,444	2,097	10,541	7,015	1,136	8,151
9	# Of Entries	95			107		
10	18,001-INFINITY	23,425	2,646	26,071	24,110	2,049	26,159
11	# Of Entries	44			57		
12	Ratio	0.6835			0.6524		
13	0-18,000	0.3165			0.3476		
14	18,001-INFINITY	1.0000			1.0000		

Band 3

15	0-18,000	4,845	1,981	6,825	4,512	1,095	5,608
16	# Of Entries	46			28,127		
17	18,001-INFINITY	23,301	4,826		23,881	3,479	27,360
18	# Of Entries	56			196		
19	Ratio	0.4510			0.5775		
20	0-18,000	0.5490			0.4225		
21	18,001-INFINITY	1.0000			1.0000		

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C:\123R24\LCATR099\RESULTS1		LOOP COST ANALYSIS TOOL					Bellcore®
OUTPUT - REPORT D		PROSPECTIVE INVESTMENT SUMMARY REPORT					LCAT Rel: 1.0.4
SHEET 1 of 1							Issued: 7/31/95
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: TOTAL TECHNOLOGIES					STUDY YR: 1996
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS					TEST CASE: 1
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - RESIDENCE ISD					RUN DATE: 29-Jan-97
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 28127 FEET					TIME: 10:44

Loop Span Set Weighting: 1	UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY						WEIGHTED
PLANT NAME	FEEDER	DISTRIBUTION NETWORK				TOTAL	
SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE			LOOP
EQPT							
PLANT	CODE						
ITEM DESCRIPTION	SEG.LGTH.						
SHARED RESOURCES							
LAND	20C	\$ 0.12	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.1206
BUILDING	10C	\$ 3.59	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 3.5855
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
MISC. COM EQP & PWR	57C	\$ 1.66	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.6553
POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
DIRECT RESOURCES							
LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.4513
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.15	\$ 11.23	\$ 0.00	\$ 11.3800
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.01	\$ 11.51	\$ 0.00	\$ 11.5200
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.03	\$ 0.00	\$ 0.00	\$ 0.0300
CO EQPT - LOW CAP TERM	257C	\$ 8.36	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 8.3566
CO EQPT - LOW CAP CHAN	257C	\$ 32.84	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 32.8370
CO EQPT - HI CAP TERM	857C	\$ 2.18	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.1818
CO EQPT - HI CAP CHAN	857C	\$ 3.33	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 3.3302
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (FIBER)	822C	\$ 0.14	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.1369
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (FO) CA.	85C	\$ 0.03	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0334
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
POLE LINE	1C	\$ 0.03	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.7543
CONDUIT	4C	\$ 0.02	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0264
SPAN SUMMARY		\$ 52.29	\$ 0.00	\$ 0.24	\$ 23.42	\$ 2.45	\$ 80.40
							\$ 80.40

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CA123R24:LCATR099:RESULTS1
OUTPUT - COST_REPORTS

Belcore (R)
LCAT
Release: 1.0.4
Issued: 7/31/95

LOOP COST ANALYSIS TOOL

COST MODEL - INVESTMENT BY ACCOUNT REPORTS

STUDY NAME: 1996 BAND 3 (OHIO) RESIDENCE ISDN STUDY 18001 FEET - INFINITY INTRAST

CURRENT TEST PLAN :

CURRENT JOB IDENT. CINCINNATI				
BASIS	NETWORK	TEST CASE	1	LAST SAVE
FR / DS	FLAT RATE	#BANDS	0	17-Jan-97
SVC LEVEL	NARBAND	#CKTS	1	18:49
CST METH	UN INCR	INV LEVEL	ANNCOST	TIME

....your report is ready for viewing

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C:\123R24\LCATR099\RESULTS1
OUTPUT - WORKSHEET D
SHEET 1 of 10

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATI

LOOP COST ANALYSIS TOOL
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

CIRCUIT DESIGN : 1 CDLC
LOOP SPAN DIVISION : ALL LOOP SPANS
SERVICE CLASS : BAND 3 - RESIDENCE ISC
TOTAL LOOP LENGTH : 28127 FEET

LCAT Ref: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 10:44

Bellcore (R)

012345678910111213141516171819202122232425262728293031323334353637383940414243444546474849505152535455

Circuit Design Mix: 1.0000

UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

PLANT NAME
SEG. NAME
EQPT
CODE

PRIMARY

EXTENSION

SUB--

DISTRIBUTION NETWORK
INTERFACE

TOTAL
LOOP

WEIGHTED
TOTAL
LOOP

PLANT
ITEM DESCRIPTION

SHARED RESOURCES

LAND 20C \$ 0.11 \$ 0.00 \$ 0.00 \$ 0.11 \$ 0.11

BUILDING 10C \$ 3.20 \$ 0.00 \$ 0.00 \$ 3.20 \$ 3.20

BLDG ENTRANCE CABLE 12C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

INTRABLDG CABLE 52C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

AERIAL CABLE (COPPER) 22C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

BURIED CABLE (COPPER) 45C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

UNDERGROUND (CU) CA. 5C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CO EQPT - LOW CAP TERM 257C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CO EQPT - LOW CAP CHAN 257C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CO EQPT - HI CAP TERM 857C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CO EQPT - HI CAP CHAN 857C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CO EQPT - ANALOG SW 77C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CO EQPT - DIGITAL SW 377C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

AERIAL CABLE (FIBER) 822C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

BURIED CABLE (FIBER) 845C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

UNDERGROUND (FO) CA. 85C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CONNECTORS 57C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

MISC. COM EQP & PWR 57C \$ 1.46 \$ 0.00 \$ 0.00 \$ 1.46 \$ 1.46

POLE LINE 1C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CONDUIT 4C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

DIRECT RESOURCES

LAND 20C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

BUILDING 10C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

BLDG ENTRANCE CABLE 12C \$ 0.00 \$ 0.00 \$ 0.00 \$ 2.45 \$ 2.45

INTRABLDG CABLE 52C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

AERIAL CABLE (COPPER) 22C \$ 2.95 \$ 0.15 \$ 11.23 \$ 14.33 \$ 14.33

BURIED CABLE (COPPER) 45C \$ 0.21 \$ 0.01 \$ 11.51 \$ 11.73 \$ 11.73

UNDERGROUND (CU) CA. 5C \$ 0.53 \$ 0.03 \$ 0.00 \$ 0.56 \$ 0.56

CO EQPT - LOW CAP TERM 257C \$ 10.91 \$ 0.00 \$ 0.00 \$ 10.91 \$ 10.91

CO EQPT - LOW CAP CHAN 257C \$ 32.84 \$ 0.00 \$ 0.00 \$ 32.84 \$ 32.84

CO EQPT - HI CAP TERM 857C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CO EQPT - HI CAP CHAN 857C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CO EQPT - ANALOG SW 77C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CO EQPT - DIGITAL SW 377C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

AERIAL CABLE (FIBER) 822C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

BURIED CABLE (FIBER) 845C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

UNDERGROUND (FO) CA. 85C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CONNECTORS 57C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

MISC. COM EQP & PWR 57C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

POLE LINE 1C \$ 0.70 \$ 0.04 \$ 2.68 \$ 3.42 \$ 3.42

CONDUIT 4C \$ 0.19 \$ 0.01 \$ 0.00 \$ 0.20 \$ 0.20

SPAN SUMMARY \$ 53.09 \$ 0.00 \$ 25.42 \$ 2.45 \$ 81.20 \$ 81.20

CIRCUIT DESIGN SUMMARY \$ 81.20

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A B C D E F G		CR123R24\LCATR099\RESULTS1 OUTPUT - WORKSHEET D SHEET 2 of 10		LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				Bellcore LCAT Rel: 1.0.4 Issued: 7/31/95	
		COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO JOB IDENT: CINCINNATI		CIRCUIT DESIGN: 2 CDLC LOOP SPAN DIVISION: ALL LOOP SPANS SERVICE CLASS: BAND 3 - RESIDENCE ISC TOTAL LOOP LENGTH: 28127 FEET		STUDY YR: 1996 TEST CASE: 1 DATE: 29-Jan-97 TIME: 10:44			
0		Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY						WEIGHTED	
1		PLANT NAME	FEEDER	DISTRIBUTION NETWORK		TOTAL	TOTAL		
2		SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE	LOOP		
3		EQPT							
4		PLANT	CODE						
5		ITEM DESCRIPTION							
6		<u>SHARED RESOURCES</u>							
7		LAND	20C				\$0		
8		BUILDING	10C				\$0		
9		BLDG ENTRANCE CABLE	12C				\$0		
10		INTRABLDG CABLE	52C				\$0		
11		AERIAL CABLE (COPPER)	22C				\$0		
12		BURIED CABLE (COPPER)	45C				\$0		
13		UNDERGROUND (CU) CA.	5C				\$0		
14		CO EQPT - LOW CAP TERM	257C				\$0		
15		CO EQPT - LOW CAP CHAN	257C				\$0		
16		CO EQPT - HI CAP TERM	857C				\$0		
17		CO EQPT - HI CAP CHAN	857C				\$0		
18		CO EQPT - ANALOG SW	77C				\$0		
19		CO EQPT - DIGITAL SW	377C				\$0		
20		AERIAL CABLE (FIBER)	822C				\$0		
21		BURIED CABLE (FIBER)	845C				\$0		
22		UNDERGROUND (FO) CA.	85C				\$0		
23		CONNECTORS	57C				\$0		
24		MISC. COM EQP & PWR	57C				\$0		
25		POLE LINE	1C				\$0		
26		CONDUIT	4C				\$0		
27									
28		<u>DIRECT RESOURCES</u>							
29		LAND	20C				\$0		
30		BUILDING	10C				\$0		
31		BLDG ENTRANCE CABLE	12C				\$0		
32		INTRABLDG CABLE	52C				\$0		
33		AERIAL CABLE (COPPER)	22C				\$0		
34		BURIED CABLE (COPPER)	45C				\$0		
35		UNDERGROUND (CU) CA.	5C				\$0		
36		CO EQPT - P GAIN TERM	257C				\$0		
37		CO EQPT - P GAIN CHAN	257C				\$0		
38		CO EQPT - FO MUX TERM	857C				\$0		
39		CO EQPT - FO MUX CHAN	857C				\$0		
40		CO EQPT - ANALOG SW	77C				\$0		
41		CO EQPT - DIGITAL SW	377C				\$0		
42		AERIAL CABLE (FIBER)	822C				\$0		
43		BURIED CABLE (FIBER)	845C				\$0		
44		UNDERGROUND (FO) CA.	85C				\$0		
45		CONNECTORS	57C				\$0		
46		MISC. COM EQP & PWR	57C				\$0		
47		POLE LINE	1C				\$0		
48		CONDUIT	4C				\$0		
49									
50		SPAN SUMMARY							
51		CIRCUIT DESIGN SUMMARY							
52							\$0		
53							\$0		
54							\$0		
55							\$0		

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A B C D E F G	LOOP COST ANALYSIS TOOL										Bellcore (R)	
	PROSPECTIVE INVESTMENT WORKSHEET SUMMARY										LCAT Rel: 1.0.4	
	C:\123R24\LCATR099\RESULTS1										Issued: 7/31/95	
	OUTPUT - WORKSHEET D										STUDY YR: 1996	
	SHEET 3 of 10										TEST CASE: 1	
	COMPANY: CINCINNATI BELL TEL										RUN DATE: 29-Jan-97	
	CITY / AREA: CINCINNATI										TIME: 10:44	
	STATE / PROV: OHIO											
	JOB IDENT: CINCINNATI											
	CIRCUIT DESIGN: MELDED											
	LOOP SPAN DIVISION: ALL LOOP											
	SERVICE CLASS: BAND 3 - RESIDENCE ISD											
	TOTAL LOOP LENGTH: 28127 FEET											
0	Technology Type Mix: [0.0000]										UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY	
1											TECHNOLOGY WEIGHTED	
2												
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LOOP COST ANALYSIS TOOL										Bellcore ^(R)	
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY										LCAT Rel: 1.0.4	
SHEET 4 of 10										Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL					CIRCUIT DESIGN: 1 FOMUX					STUDY YR: 1996	
CITY / AREA: CINCINNATI					LOOP SPAN DIVISION: ALL LOOP SPANS					TEST CASE: 1	
STATE / PROV: OHIO					SERVICE CLASS: BAND 3 - RESIDENCE ISC					RUN DATE: 29-Jan-97	
JOB IDENT: CINCINNATI					TOTAL LOOP LENGTH: 28127 FEET					TIME: 10:44	
Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY											
		PLANT NAME	FEEDER	DISTRIBUTION NETWORK		TOTAL	WEIGHTED				
		SEG. NAME	PRIMARY	EXTENSION	SUB--	INTERFACE	LOOP	TOTAL		LOOP	
		EQPT									
PLANT		CODE									
ITEM DESCRIPTION											
SHARED RESOURCES											
8	LAND	20C					\$0		\$0		
9	BUILDING	10C					\$0		\$0		
10	BLDG ENTRANCE CABLE	12C					\$0		\$0		
11	INTRABLDG CABLE	52C					\$0		\$0		
12	AERIAL CABLE (COPPER)	22C					\$0		\$0		
13	BURIED CABLE (COPPER)	45C					\$0		\$0		
14	UNDERGROUND (CU) CA.	5C					\$0		\$0		
15	CO EQPT - LOW CAP TERM	257C					\$0		\$0		
16	CO EQPT - LOW CAP CHAN	257C					\$0		\$0		
17	CO EQPT - HI CAP TERM	857C					\$0		\$0		
18	CO EQPT - HI CAP CHAN	857C					\$0		\$0		
19	CO EQPT - ANALOG SW	77C					\$0		\$0		
20	CO EQPT - DIGITAL SW	377C					\$0		\$0		
21	AERIAL CABLE (FIBER)	822C					\$0		\$0		
22	BURIED CABLE (FIBER)	845C					\$0		\$0		
23	UNDERGROUND (FO) CA.	85C					\$0		\$0		
24	CONNECTORS	57C					\$0		\$0		
25	MISC. COM EQP & PWR	57C					\$0		\$0		
26	POLE LINE	1C					\$0		\$0		
27	CONDUIT	4C					\$0		\$0		
DIRECT RESOURCES											
30	LAND	20C					\$0		\$0		
31	BUILDING	10C					\$0		\$0		
32	BLDG ENTRANCE CABLE	12C					\$0		\$0		
33	INTRABLDG CABLE	52C					\$0		\$0		
34	AERIAL CABLE (COPPER)	22C					\$0		\$0		
35	BURIED CABLE (COPPER)	45C					\$0		\$0		
36	UNDERGROUND (CU) CA.	5C					\$0		\$0		
37	CO EQPT - LOW CAP TERM	257C					\$0		\$0		
38	CO EQPT - LOW CAP GHAN	257C					\$0		\$0		
39	CO EQPT - HI CAP TERM	857C					\$0		\$0		
40	CO EQPT - HI CAP CHAN	857C					\$0		\$0		
41	CO EQPT - ANALOG SW	77C					\$0		\$0		
42	CO EQPT - DIGITAL SW	377C					\$0		\$0		
43	AERIAL CABLE (FIBER)	822C					\$0		\$0		
44	BURIED CABLE (FIBER)	845C					\$0		\$0		
45	UNDERGROUND (FO) CA.	85C					\$0		\$0		
46	CONNECTORS	57C					\$0		\$0		
47	MISC. COM EQP & PWR	57C					\$0		\$0		
48	POLE LINE	1C					\$0		\$0		
49	CONDUIT	4C					\$0		\$0		
51	SPAN SUMMARY		\$0	\$0			\$0		\$0		
52							\$0		\$0		
53							\$0		\$0		
54							\$0		\$0		
55							\$0		\$0		

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A B C D E F G	LOOP COST ANALYSIS TOOL										Bellicore [®]	
	PROSPECTIVE INVESTMENT WORKSHEET SUMMARY										LCAT Rel: 1.0.4 Issued: 7/31/95	
	C:\123R24\LCATR099\RESULTS1										STUDY YR: 1998	
	OUTPUT - WORKSHEET D										TEST CASE: 1	
	SHEET 5 of 10										RUN DATE: 29-Jan-97	
	COMPANY: CINCINNATI BELL TEL										TIME: 10:44	
	CITY / AREA: CINCINNATI											
	STATE / PROV: OHIO											
	JOB IDENT: CINCINNATI											
	CIRCUIT DESIGN: 2 FOMUX											
	LOOP SPAN DIVISION: ALL LOOP SPANS											
	SERVICE CLASS: BAND 3 - RESIDENCE ISD											
	TOTAL LOOP LENGTH: 28127 FEET											
0	Circuit Design Mix: 0.0000											
1	UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY										WEIGHTED	
2	PLANT NAME										TOTAL	
3	SEG. NAME										TOTAL	
4	EQPT										LOOP	
5	PLANT										LOOP	
6	CODE											
7	ITEM DESCRIPTION											
8	<u>SHARED RESOURCES</u>											
9	LAND	20C									\$0	\$0
10	BUILDING	10C									\$0	\$0
11	BLDG ENTRANCE CABLE	12C									\$0	\$0
12	INTRABLDG CABLE	52C									\$0	\$0
13	AERIAL CABLE (COPPER)	22C									\$0	\$0
14	BURIED CABLE (COPPER)	45C									\$0	\$0
15	UNDERGROUND (CU) CA.	5C									\$0	\$0
16	CO EQPT - LOW CAP TERM	257C									\$0	\$0
17	CO EQPT - LOW CAP CHAN	257C									\$0	\$0
18	CO EQPT - HI CAP TERM	857C									\$0	\$0
19	CO EQPT - HI CAP CHAN	857C									\$0	\$0
20	CO EQPT - ANALOG SW	77C									\$0	\$0
21	CO EQPT - DIGITAL SW	377C									\$0	\$0
22	AERIAL CABLE (FIBER)	822C									\$0	\$0
23	BURIED CABLE (FIBER)	845C									\$0	\$0
24	UNDERGROUND (FO) CA.	85C									\$0	\$0
25	CONNECTORS	57C									\$0	\$0
26	MISC. COM EQP & PWR	57C									\$0	\$0
27	POLE LINE	1C									\$0	\$0
28	CONDUIT	4C									\$0	\$0
29	<u>DIRECT RESOURCES</u>											
30	LAND	20C									\$0	\$0
31	BUILDING	10C									\$0	\$0
32	BLDG ENTRANCE CABLE	12C									\$0	\$0
33	INTRABLDG CABLE	52C									\$0	\$0
34	AERIAL CABLE (COPPER)	22C									\$0	\$0
35	BURIED CABLE (COPPER)	45C									\$0	\$0
36	UNDERGROUND (CU) CA.	5C									\$0	\$0
37	CO EQPT - LOW CAP TERM	257C									\$0	\$0
38	CO EQPT - LOW CAP CHAN	257C									\$0	\$0
39	CO EQPT - HI CAP TERM	857C									\$0	\$0
40	CO EQPT - HI CAP CHAN	857C									\$0	\$0
41	CO EQPT - ANALOG SW	77C									\$0	\$0
42	CO EQPT - DIGITAL SW	377C									\$0	\$0
43	AERIAL CABLE (FIBER)	822C									\$0	\$0
44	BURIED CABLE (FIBER)	845C									\$0	\$0
45	UNDERGROUND (FO) CA.	85C									\$0	\$0
46	CONNECTORS	57C									\$0	\$0
47	MISC. COM EQP & PWR	57C									\$0	\$0
48	POLE LINE	1C									\$0	\$0
49	CONDUIT	4C									\$0	\$0
50	SPAN SUMMARY										\$0	
51											\$0	
52											\$0	
53											\$0	
54											\$0	
55											\$0	

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A B C D E F G	LOOP COST ANALYSIS TOOL										Bellcore [®]	
	PROSPECTIVE INVESTMENT WORKSHEET SUMMARY										LCAT Rel: 1.0.4	
	C:\123R24\LCATR099\RESULTS1										Issued: 7/31/95	
	OUTPUT - WORKSHEET D										STUDY YR: 1996	
	SHEET 6 of 10										TEST CASE: 1	
	COMPANY: CINCINNATI BELL TEL										RUN DATE: 29-Jan-97	
	CITY / AREA: CINCINNATI										TIME: 10:44	
	STATE / PROV: OHIO											
	JOB IDENT: CINCINNATI											
	CIRCUIT DESIGN: 3 FOMUX											
	LOOP SPAN DIVISION: ALL LOOP SPANS											
	SERVICE CLASS: BAND 3 - RESIDENCE ISC											
	TOTAL LOOP LENGTH: 28127 FEET											
0	Circuit Design Mix: 1.0000											
1	UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY											
2	PLANT NAME ----- FEEDER ----- DISTRIBUTION NETWORK											
3	SEG. NAME PRIMARY EXTENSION SUB- INTERFACE											
4	EQPT											
5	PLANT CODE											
6	ITEM DESCRIPTION											
7	<u>SHARED RESOURCES</u>											
8	LAND	20C	\$ 0.12		\$ 0.00	\$ 0.00		\$ 0.12		\$ 0.12		\$ 0.12
9	BUILDING	10C	\$ 3.59		\$ 0.00	\$ 0.00		\$ 3.59		\$ 3.59		\$ 3.59
10	BLDG ENTRANCE CABLE	12C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
11	INTRABLDG CABLE	52C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
12	AERIAL CABLE (COPPER)	22C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
13	BURIED CABLE (COPPER)	45C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
14	UNDERGROUND (CU) CA.	5C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
15	CO EQPT - LOW CAP TERM	257C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
16	CO EQPT - LOW CAP CHAN	257C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
17	CO EQPT - HI CAP TERM	857C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
18	CO EQPT - HI CAP CHAN	857C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
19	CO EQPT - ANALOG SW	77C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
20	CO EQPT - DIGITAL SW	377C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
21	AERIAL CABLE (FIBER)	822C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
22	BURIED CABLE (FIBER)	845C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
23	UNDERGROUND (FO) CA.	85C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
24	CONNECTORS	57C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
25	MISC. COM EQP & PWR	57C	\$ 1.66		\$ 0.00	\$ 0.00		\$ 1.66		\$ 1.66		\$ 1.66
26	POLE LINE	1C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
27	CONDUIT	4C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
28												
29	<u>DIRECT RESOURCES</u>											
30	LAND	20C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
31	BUILDING	10C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
32	BLDG ENTRANCE CABLE	12C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45		\$ 2.45		\$ 2.45
33	INTRABLDG CABLE	52C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
34	AERIAL CABLE (COPPER)	22C	\$ 0.00		\$ 0.15	\$ 11.23		\$ 11.38		\$ 11.38		\$ 11.38
35	BURIED CABLE (COPPER)	45C	\$ 0.00		\$ 0.01	\$ 11.51		\$ 11.52		\$ 11.52		\$ 11.52
36	UNDERGROUND (CU) CA.	5C	\$ 0.00		\$ 0.03	\$ 0.00		\$ 0.03		\$ 0.03		\$ 0.03
37	CO EQPT - LOW CAP TERM	257C	\$ 8.36		\$ 0.00	\$ 0.00		\$ 8.36		\$ 8.36		\$ 8.36
38	CO EQPT - LOW CAP CHAN	257C	\$ 32.84		\$ 0.00	\$ 0.00		\$ 32.84		\$ 32.84		\$ 32.84
39	CO EQPT - HI CAP TERM	857C	\$ 2.18		\$ 0.00	\$ 0.00		\$ 2.18		\$ 2.18		\$ 2.18
40	CO EQPT - HI CAP CHAN	857C	\$ 3.33		\$ 0.00	\$ 0.00		\$ 3.33		\$ 3.33		\$ 3.33
41	CO EQPT - ANALOG SW	77C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
42	CO EQPT - DIGITAL SW	377C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
43	AERIAL CABLE (FIBER)	822C	\$ 0.14		\$ 0.00	\$ 0.00		\$ 0.14		\$ 0.14		\$ 0.14
44	BURIED CABLE (FIBER)	845C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
45	UNDERGROUND (FO) CA.	85C	\$ 0.03		\$ 0.00	\$ 0.00		\$ 0.03		\$ 0.03		\$ 0.03
46	CONNECTORS	57C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
47	MISC. COM EQP & PWR	57C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00		\$ 0.00
48	POLE LINE	1C	\$ 0.03		\$ 0.04	\$ 0.00		\$ 0.07		\$ 0.07		\$ 0.07
49	CONDUIT	4C	\$ 0.02		\$ 0.01	\$ 0.00		\$ 0.03		\$ 0.03		\$ 0.03
50												
51	SPAN SUMMARY		\$ 52.29	\$ 0.00	\$ 0.24	\$ 25.42	\$ 2.45	\$ 79.40		\$ 80.40		\$ 80.40
52												
53												
54												
55												

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A B C D E F G		CA123R24\LCATR099\RESULTS1 OUTPUT - WORKSHEET D SHEET 7 of 10		LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				Bellcore [®] LCAT Ref: 1.0.4 Issued: 7/31/95 STUDY YR: 1996 TEST CASE: 1 RUN DATE: 29-Jan-97 TIME: 10:44	
		COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO JOB IDENT: CINCINNATI		CIRCUIT DESIGN: 4 FOMUX LOOP SPAN DIVISION: ALL LOOP SPANS SERVICE CLASS: BAND 3 - RESIDENCE ISC TOTAL LOOP LENGTH: 28127 FEET					
		Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							
		PLANT NAME	FEEDER	DISTRIBUTION NETWORK	TOTAL				
		SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE	LOOP	WEIGHTED	
		EQPT					LOOP	TOTAL	
		PLANT CODE					LOOP	LOOP	
		ITEM DESCRIPTION							
7		<u>SHARED RESOURCES</u>							
8		LAND	20C				\$0	\$0	
9		BUILDING	10C				\$0	\$0	
10		BLDG ENTRANCE CABLE	12C				\$0	\$0	
11		INTRABLDG CABLE	52C				\$0	\$0	
12		AERIAL CABLE (COPPER)	22C				\$0	\$0	
13		BURIED CABLE (COPPER)	45C				\$0	\$0	
14		UNDERGROUND (CU) CA.	5C				\$0	\$0	
15		CO EQPT - LOW CAP TERM	257C				\$0	\$0	
16		CO EQPT - LOW CAP CHAN	257C				\$0	\$0	
17		CO EQPT - HI CAP TERM	857C				\$0	\$0	
18		CO EQPT - HI CAP CHAN	857C				\$0	\$0	
19		CO EQPT - ANALOG SW	77C				\$0	\$0	
20		CO EQPT - DIGITAL SW	377C				\$0	\$0	
21		AERIAL CABLE (FIBER)	822C				\$0	\$0	
22		BURIED CABLE (FIBER)	845C				\$0	\$0	
23		UNDERGROUND (FO) CA.	85C				\$0	\$0	
24		CONNECTORS	57C				\$0	\$0	
25		MISC. COM EQP & PWR	57C				\$0	\$0	
26		POLE LINE	1C				\$0	\$0	
27		CONDUIT	4C				\$0	\$0	
28									
29		<u>DIRECT RESOURCES</u>							
30		LAND	20C				\$0	\$0	
31		BUILDING	10C				\$0	\$0	
32		BLDG ENTRANCE CABLE	12C				\$0	\$0	
33		INTRABLDG CABLE	52C				\$0	\$0	
34		AERIAL CABLE (COPPER)	22C				\$0	\$0	
35		BURIED CABLE (COPPER)	45C				\$0	\$0	
36		UNDERGROUND (CU) CA.	5C				\$0	\$0	
37		CO EQPT - LOW CAP TERM	257C				\$0	\$0	
38		CO EQPT - LOW CAP CHAN	257C				\$0	\$0	
39		CO EQPT - HI CAP TERM	857C				\$0	\$0	
40		CO EQPT - HI CAP CHAN	857C				\$0	\$0	
41		CO EQPT - ANALOG SW	77C				\$0	\$0	
42		CO EQPT - DIGITAL SW	377C				\$0	\$0	
43		AERIAL CABLE (FIBER)	822C				\$0	\$0	
44		BURIED CABLE (FIBER)	845C				\$0	\$0	
45		UNDERGROUND (FO) CA.	85C				\$0	\$0	
46		CONNECTORS	57C				\$0	\$0	
47		MISC. COM EQP & PWR	57C				\$0	\$0	
48		POLE LINE	1C				\$0	\$0	
49		CONDUIT	4C				\$0	\$0	
50									
51		SPAN SUMMARY		\$0	\$0		\$0	\$0	
52									
53									
54									
55									

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A B C D E F G		LOOP COST ANALYSIS TOOL										Bellicore (R)	
		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY										LCAT Rel: 1.0.4	
		CINCINNATI BELL TEL										Issued: 7/31/95	
		CIRCUIT DESIGN: 5 FOMUX										STUDY YR: 1996	
		LOOP SPAN DIVISION: ALL LOOP SPANS										TEST CASE: 1	
		SERVICE CLASS: BAND 3 - RESIDENCE ISC										RUN DATE: 29-Jan-97	
		TOTAL LOOP LENGTH: 28127 FEET										TIME: 10:44	
0		Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY											
1		PLANT NAME	FEEDER	DISTRIBUTION NETWORK		TOTAL	WEIGHTED						
2		SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE	LOOP	TOTAL					
3		EQPT						LOOP					
4		PLANT						LOOP					
5		CODE						LOOP					
6		ITEM DESCRIPTION											
7		<u>SHARED RESOURCES</u>											
8		LAND	20C				\$0					\$0	
9		BUILDING	10C				\$0					\$0	
10		BLDG ENTRANCE CABLE	12C				\$0					\$0	
11		INTRABLDG CABLE	52C				\$0					\$0	
12		AERIAL CABLE (COPPER)	22C				\$0					\$0	
13		BURIED CABLE (COPPER)	45C				\$0					\$0	
14		UNDERGROUND (CU) CA.	5C				\$0					\$0	
15		CO EQPT - LOW CAP TERM	257C				\$0					\$0	
16		CO EQPT - LOW CAP CHAN	257C				\$0					\$0	
17		CO EQPT - HI CAP TERM	857C				\$0					\$0	
18		CO EQPT - HI CAP CHAN	857C				\$0					\$0	
19		CO EQPT - ANALOG SW	77C				\$0					\$0	
20		CO EQPT - DIGITAL SW	377C				\$0					\$0	
21		AERIAL CABLE (FIBER)	822C				\$0					\$0	
22		BURIED CABLE (FIBER)	845C				\$0					\$0	
23		UNDERGROUND (FO) CA.	85C				\$0					\$0	
24		CONNECTORS	57C				\$0					\$0	
25		MISC. COM EQP & PWR	57C				\$0					\$0	
26		POLE LINE	1C				\$0					\$0	
27		CONDUIT	4C				\$0					\$0	
28													
29		<u>DIRECT RESOURCES</u>											
30		LAND	20C				\$0					\$0	
31		BUILDING	10C				\$0					\$0	
32		BLDG ENTRANCE CABLE	12C				\$0					\$0	
33		INTRABLDG CABLE	52C				\$0					\$0	
34		AERIAL CABLE (COPPER)	22C				\$0					\$0	
35		BURIED CABLE (COPPER)	45C				\$0					\$0	
36		UNDERGROUND (CU) CA.	5C				\$0					\$0	
37		CO EQPT - LOW CAP TERM	257C				\$0					\$0	
38		CO EQPT - LOW CAP CHAN	257C				\$0					\$0	
39		CO EQPT - HI CAP TERM	857C				\$0					\$0	
40		CO EQPT - HI CAP CHAN	857C				\$0					\$0	
41		CO EQPT - ANALOG SW	77C				\$0					\$0	
42		CO EQPT - DIGITAL SW	377C				\$0					\$0	
43		AERIAL CABLE (FIBER)	822C				\$0					\$0	
44		BURIED CABLE (FIBER)	845C				\$0					\$0	
45		UNDERGROUND (FO) CA.	85C				\$0					\$0	
46		CONNECTORS	57C				\$0					\$0	
47		MISC. COM EQP & PWR	57C				\$0					\$0	
48		POLE LINE	1C				\$0					\$0	
49		CONDUIT	4C				\$0					\$0	
50													
51		SPAN SUMMARY	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
52													
53													
54													
55													

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C:\123R24\LCATR099\RESULTS1		LOOP COST ANALYSIS TOOL				Belcore [®]	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 9 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 6 FOMUX		STUDY YR: 1996			
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1			
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - RESIDENCE ISD		RUN DATE: 29-Jan-97			
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 28127 FEET		TIME: 10:44			
Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							
	PLANT NAME	FEEDER	DISTRIBUTION NETWORK	TOTAL LOOP	WEIGHTED TOTAL LOOP		
	SEG. NAME	PRIMARY	EXTENSION	SUB--	INTERFACE		
	EQPT						
	PLANT CODE						
	ITEM DESCRIPTION						
	SHARED RESOURCES						
	LAND	20C				\$0	\$0
	BUILDING	10C				\$0	\$0
	BLDG ENTRANCE CABLE	12C				\$0	\$0
	INTRABLDG CABLE	52C				\$0	\$0
	AERIAL CABLE (COPPER)	22C				\$0	\$0
	BURIED CABLE (COPPER)	45C				\$0	\$0
	UNDERGROUND (CU) CA.	5C				\$0	\$0
	CO EQPT - LOW CAP TERM	257C				\$0	\$0
	CO EQPT - LOW CAP CHAN	257C				\$0	\$0
	CO EQPT - HI CAP TERM	857C				\$0	\$0
	CO EQPT - HI CAP CHAN	857C				\$0	\$0
	CO EQPT - ANALOG SW	77C				\$0	\$0
	CO EQPT - DIGITAL SW	377C				\$0	\$0
	AERIAL CABLE (FIBER)	822C				\$0	\$0
	BURIED CABLE (FIBER)	845C				\$0	\$0
	UNDERGROUND (FO) CA.	85C				\$0	\$0
	CONNECTORS	57C				\$0	\$0
	MISC. COM EQP & PWR	57C				\$0	\$0
	POLE LINE	1C				\$0	\$0
	CONDUIT	4C				\$0	\$0
	DIRECT RESOURCES						
	LAND	20C				\$0	\$0
	BUILDING	10C				\$0	\$0
	BLDG ENTRANCE CABLE	12C				\$0	\$0
	INTRABLDG CABLE	52C				\$0	\$0
	AERIAL CABLE (COPPER)	22C				\$0	\$0
	BURIED CABLE (COPPER)	45C				\$0	\$0
	UNDERGROUND (CU) CA.	5C				\$0	\$0
	CO EQPT - LOW CAP TERM	257C				\$0	\$0
	CO EQPT - LOW CAP CHAN	257C				\$0	\$0
	CO EQPT - HI CAP TERM	857C				\$0	\$0
	CO EQPT - HI CAP CHAN	857C				\$0	\$0
	CO EQPT - ANALOG SW	77C				\$0	\$0
	CO EQPT - DIGITAL SW	377C				\$0	\$0
	AERIAL CABLE (FIBER)	822C				\$0	\$0
	BURIED CABLE (FIBER)	845C				\$0	\$0
	UNDERGROUND (FO) CA.	85C				\$0	\$0
	CONNECTORS	57C				\$0	\$0
	MISC. COM EQP & PWR	57C				\$0	\$0
	POLE LINE	1C				\$0	\$0
	CONDUIT	4C				\$0	\$0
	SPAN SUMMARY		\$0	\$0	\$0	\$0	\$0

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A B C D E F G	LOOP COST ANALYSIS TOOL							Bellcore [®]	
	PROSPECTIVE INVESTMENT WORKSHEET SUMMARY							LCAT Rel: 1.0.4	
	C:\123R24\LCATR099\RESULTS:							Issued: 7/31/95	
	OUTPUT - WORKSHEET D							STUDY YR: 1996	
	SHEET 10 of 10							TEST CASE: 1	
	COMPANY: CINCINNATI BELL TEL							RUN DATE: 29-Jan-97	
	CITY / AREA: CINCINNATI							TIME: 10:44	
	STATE / PROV: OHIO								
	JOB IDENT: CINCINNATI								
	CIRCUIT DESIGN: MELDED FOMUX								
	LOOP SPAN DIVISION: ALL LOOP SPANS								
	SERVICE CLASS: BAND 3 - RESIDENCE ISD								
	TOTAL LOOP LENGTH: 28127 FEET								
0	Technology Type Mix: 1.0000							TECHNOLOGY WEIGHTED	
1	UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY								
2	PLANT NAME								
3	SEG. NAME								
4	EQPT								
5	CODE								
6	PLANT								
7	ITEM DESCRIPTION								
8	<u>SHARED RESOURCES</u>								
9	LAND	20C	\$ 0.12	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.12	\$ 0.1206
10	BUILDING	10C	\$ 3.59	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 3.59	\$ 3.5855
11	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
12	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
13	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
14	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
15	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
16	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
17	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
18	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
19	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
20	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
21	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
22	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
23	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
24	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
25	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
26	MISC. COM EQP & PWR	57C	\$ 1.66	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.66	\$ 1.6553
27	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
28	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
29	<u>DIRECT RESOURCES</u>								
30	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
31	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
32	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45	\$ 2.4513
33	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
34	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.15	\$ 11.23	\$ 0.00	\$ 11.38	\$ 11.3800
35	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.01	\$ 11.51	\$ 0.00	\$ 11.52	\$ 11.5200
36	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.03	\$ 0.00	\$ 0.00	\$ 0.03	\$ 0.0300
37	CO EQPT - LOW CAP TERM	257C	\$ 8.36	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 8.36	\$ 8.3566
38	CO EQPT - LOW CAP CHAN	257C	\$ 32.84	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 32.84	\$ 32.8370
39	CO EQPT - HI CAP TERM	857C	\$ 2.18	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.18	\$ 2.1818
40	CO EQPT - HI CAP CHAN	857C	\$ 3.33	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 3.33	\$ 3.3302
41	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
42	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
43	AERIAL CABLE (FIBER)	822C	\$ 0.14	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.14	\$ 0.1369
44	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
45	UNDERGROUND (FO) CA.	85C	\$ 0.03	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.03	\$ 0.0334
46	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
47	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
48	POLE LINE	1C	\$ 0.03	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.03	\$ 0.0264
49	CONDUIT	4C	\$ 0.02	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.02	\$ 0.0264
50	SPAN SUMMARY								
51									
52									
53									
54									
55									

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123R24\LCAT\CALC\DIST

RUN - DIST PLNT

LAST UPDATE

29-Jan-97

09:51

LOOP COST ANALYSIS TOOL

Bellcore (R)

LCAT

Release: 1.0.4

Issued: 8/31/95

DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO) RESIDENCE ISDN STUDY 18001 FEET - INFIN

CURRENT TEST PLAN :

CURRENT JOB IDENT: CINCINNATI

BASIS	NETWORK	TEST CASE	1
FR / DS	FLAT RATE	#BANDS	0
SVC LEVEL	NARBAND	#CKTS	
CST METH	UN INCR	INV LEVEL	ANN COST

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PROPRIETARY - NOT FOR USE OR DISCLOSURE OUTSIDE Bellcore WITHOUT LICENSED PERMISSION

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C:\123R24\LCATCALC\DIST
DIST_PLNT - WORKSHEET A
Sheet 1 of 3

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET
SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-COLLOC.)

SERVICE CLASS: BAND 3 - RESIDENCE ISDN

Ballcore (R)
LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 10:38

SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM - TABLE 2 - RELATIVE MIX OF TYPE OF CA. PLANT [B]	LENGTH SUBSET BY TYPE OF PLANT [C=A*B]	FROM - TABLE 4 - CABLE INVESTMENT PER PAIR FOOT [D]	CABLE INVESTMENT PER PAIR [E=C*D]	(NOTE 4) WEIGHTED TERMINAL INVESTMENT	AIR DRYER INVESTMENT PER PAIR [F=E*factr]	DROP WIRE ADJUSTMENT PER PAIR [F=E*factr]	(NOTE 4) WEIGHTED DROP WIRE INVESTMENT								
4826.0	AERIAL	0.580000	2799.1	0.041800	117.00		0.00	0.00									
CONSIDERS: MELED COPPER CABLE	BURIED	0.420000	2026.9	0.068800	139.45		0.00	0.00									
	UNDERGRND	0.000000	0.0	0.000000	0.00		0.00	0.00									
Check =		1.000000	4826.0														
OUTSIDE PLANT LOADINGS		(NOTE 4)															
DROP WIRE ADJUSTMENT:		AIR DRYER LOADINGS:															
AERIAL CA. =	0.0000			AERIAL CA. =	0.0000												
BURIED CA. =	0.0000			BURIED CA. =	0.0000												
UNDERGRND =	0.0000			UNDERGRND =	0.0000												
OTHER INVESTMENT																	
POLE LINE FACTOR (PLF) =		inv / unit lgth:		inv rtrn factr:													
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =		0.0000		0.2530													
UG CONDUIT FACTOR (UCF) =		0.0000		0.5100													
CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCF) =		\$ 0.00															
FOOTNOTES																	
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.																	
NOTE 2: TABLE 4 & 6 DEVELOPMENT SHOWN ON WORKSHEET A.																	
NOTE 3: DESIGN AT THIS DISTANCE HAS NO LOAD COILS; THEREFORE, TERMINAL INVESTMENT IS ZERO																	
NOTE 4: BY FCC MANDATE, THIS INVESTMENT IS INCORPORATED INTO THE APPROPRIATE CABLE ACCOUNT																	
(SEE BUILDING AND TERMINATING INVESTMENT WORKSHEET)																	

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C:\123R24\LCAT\CALC\DIST
DIST. PLANT - WORKSHEET B
Sheet 1 of 3

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 3 - RESIDENCE / ISDN

Bellicore (R)
LCAT
Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 10:38

TYPE OF PLANT ITEM	UNIT PLANT INVEST. [A]	PROB. OF OCCURANCE [B]	WEIGHTED TERMINAL INVESTMENT [C=A*B]
INTRABLDG CABLE	\$ 0.00	0.0000	\$ 0.00
BLDG ENTRANCE CABLE	\$ 75.00	1.0000	\$ 75.00
AERIAL TERMINAL	\$ 0.00	0.0000	\$ 0.00
BURIED TERMINAL	\$ 0.00	0.0000	\$ 0.00
AERIAL DROP WIRE	\$ 0.00	0.0000	\$ 0.00
BURIED DROP WIRE	\$ 0.00	0.0000	\$ 0.00
COAXIAL DROP	\$ 0.00	0.0000	\$ 0.00

POLE LINE FACTOR (PLF) = 0.0000 from invest. 0.2530

POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) = \$ 0.00

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FOOTNOTES
NOTE 1: FOR 4 WIRE SERVICES ONLY, THE ABOVE PLANT INVESTMENTS HAVE BEEN DOUBLED.
NOTE 2: THIS DATA IS USED IN WORKSHEET E FOR CALCULATION OF PAIR GAIN INVESTMENT AND MONTHLY COSTS

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LOOP COST ANALYSIS TOOL										Belcore (R)	
ACCOUNT INVESTMENT WORKSHEET										LCAT	
FACILITY TYPE: COPPER CABLE										Release: 1.0.4	
CIRCUIT SEGMENT: SERVICE ACCESS										STUDY YR: 1996	
SERVICE CLASS: BAND 3 - RESIDENCE ISON										TEST CASE: 1	
COMPANY: CINCINNATI BELL TEL.										RUN DATE: 29-Jan-97	
CITY/AREA: CINCINNATI										TIME: 10:38	
STATE/PROV: OHIO											
PLANT ITEM	PLANT ACCT CODE	CAT. FIXED RESOURCE VARI	1996 UNIT INVESTMENT BY ACCOUNT COST EQUATION [F]	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F**G]	ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]		
LAND	20C	F	SHARED				1.0000				
BUILDING	10C	F	SHARED				1.0000				
BLDG ENTRANCE CABLE	12C	V	DIRECT	75.00	1		\$ 75		\$ 75		
INTRABLDG CABLE	52C	V	DIRECT	0.00			0.3500				
AERIAL CABLE (COPPER)	22C	V	DIRECT	0.00			0.3500				
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00			0.3500				
UNDERGROUND (CU) CA.	5C	V	DIRECT				0.3500				
CO EQPT - P GAIN TERM	257C	F	DIRECT				0.7000				
CO EQPT - P GAIN CHAN	257C	V	DIRECT				0.7000				
CO EQPT - FO MUX TERM	857C	F	DIRECT				1.0000				
CO EQPT - FO MUX CHAN	857C	F	DIRECT				1.0000				
CO EQPT - ANALOG SW	77C	V	DIRECT				1.0000				
CO EQPT - DIGITAL SW	377C	V	DIRECT				1.0000				
AERIAL CABLE (FIBER)	822C	F	DIRECT				0.0000				
BURIED CABLE (FIBER)	845C	F	DIRECT				0.0000				
UNDERGROUND (FO) CA.	85C	F	DIRECT				0.0000				
CONNECTORS	57C	V	DIRECT				1.0000				
MISC. COM EQP & PWR	57C	V	SHARED				1.0000				
POLE LINE	1C	F	DIRECT	0.00			0.00				
CONDUIT	4C	F	DIRECT				1.0000				

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PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

FOOTNOTES
NOTE 1: APPARENT INCONSISTENCIES BETWEEN COLUMNS F(F) AND H(H) ARE CAUSED BY COMPUTER ROUNDING.
NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY.
AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE; BURIED CABLE, ... ETC;
CO EQPT - ESS = CONNECTORS + MISC. CP&E.

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C:\123R24\LCAT\CALC\DIST		LOOP COST ANALYSIS TOOL						Bellcore (R)	
DIST_PLNT - WORKSHEET B		PROSPECTIVE AND ANNUAL COSTS WORKSHEET						LCAT	
Sheet 3 of 3		FACILITY TYPE : COPPER CABLE						Release : 1.0.4	
COMPANY: CINCINNATI BELL TEL.		CIRCUIT SEGMENT : SERVICE ACCESS						STUDY YR: 1996	
CITY / AREA: CINCINNATI		SERVICE CLASS : BAND 3 - RESIDENCE ISDN						TEST CASE: 1	
STATE / PROV: OHIO								RUN DATE: 29-Jan-97	
								TIME: 10:38	
PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000		\$ 75	0.3922		\$ 29.42		\$ 2.45
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000			0.3663				
CO EQPT - P GAIN TERM	257C	1.0000			0.3681				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3681				
CO EQPT - FO MUX TERM	857C	1.0000			0.3681				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3681				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3681				
MISC. COM EQP & PWR	57C	1.0000			0.3681				
POLE LINE	1C	1.0000			0.3807				
CONDUIT	4C	1.0000			0.2521				
TOTALS			\$ 0	\$ 75		\$ 29.42	\$ 29.42	\$ 0.00	\$ 2.45

bctshrnrv bctdnrv

 \$ 0 \$ 75
 bctinvsv
 bctann bctmrc

FOOTNOTES
 NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
 NOTE 2: AN INVESTMENT-ONLY STUDY NEGATES ANNUAL COST COMPUTATION.
 THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.

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C:\123R24\LCAT\CALC\DIST
DIST. PLAN - WORKSHEET B
Sheet 1 of 3

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET

Belcore®

LCAT

Release: 1.0.4

1996

STUDY YR:

TEST CASE:

RUN DATE:

29-Jan-97

TIME:

10:38

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 3 - RESIDENCE ISDN

TYPE OF PLANT ITEM	UNIT PLANT INVEST. [A]	PROB. OF OCCURANCE [B]	WEIGHTED TERMINAL INVESTMENT [C=A*B]
INTRABLDG CABLE	\$ 0.00	0.0000	\$ 0.00
BLDG ENTRANCE CABLE	\$ 75.00	1.0000	\$ 75.00
AERIAL TERMINAL	\$ 0.00	0.0000	\$ 0.00
BURIED TERMINAL	\$ 0.00	0.0000	\$ 0.00
AERIAL DROP WIRE	\$ 0.00	0.0000	\$ 0.00
BURIED DROP WIRE	\$ 0.00	0.0000	\$ 0.00
COAXIAL DROP	\$ 0.00	0.0000	\$ 0.00

POLE LINE FACTOR (PLF) =

from length:
0.0000

from invest.:
0.2530

POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =

\$ 0.00

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PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

FOOTNOTES

NOTE 1: FOR 4 WIRE SERVICES ONLY, THE ABOVE PLANT INVESTMENTS HAVE BEEN DOUBLED.

NOTE 2: THIS DATA IS USED IN WORKSHEET E FOR CALCULATION OF PAIR GAIN INVESTMENT AND MONTHLY COSTS

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LOOP COST ANALYSIS TOOL										Bellcore [®]	
ACCOUNT INVESTMENT WORKSHEET										LCAT	
COMPANY: CINCINNATI BELL TEL.										Release: 1.0.4	
CITY / AREA: CINCINNATI										STUDY YR: 1996	
STATE / PROV: OHIO										TEST CASE: 1	
FACILITY TYPE: COPPER CABLE										RUN DATE: 29-Jan-97	
CIRCUIT SEGMENT: SERVICE ACCESS										TIME: 10:38	
SERVICE CLASS: BAND 3 - RESIDENCE ISDN											
PLANT ITEM	PLANT ACCT CODE	CAT. FIXED RESOURCE VARI	1996 UNIT INVESTMENT BY ACCOUNT COST EQUATION [F]	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F*G]	ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]		
LAND	20C	F	SHARED				1.0000				
BUILDING	10C	F	SHARED				1.0000				
BLDG ENTRANCE CABLE	12C	V	DIRECT	75.00	1	\$ 75	1.0000		\$ 75		
INTRABLDG CABLE	52C	V	DIRECT	0.00			0.3500				
AERIAL CABLE (COPPER)	22C	V	DIRECT	0.00			0.3500				
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00			0.3500				
UNDERGROUND (CU) CA.	5C	V	DIRECT				0.3500				
CO EQPT - P GAIN TERM	257C	F	DIRECT				0.7000				
CO EQPT - P GAIN CHAN	257C	V	DIRECT				0.7000				
CO EQPT - FO MUX TERM	857C	F	DIRECT				1.0000				
CO EQPT - FO MUX CHAN	857C	F	DIRECT				1.0000				
CO EQPT - ANALOG SW	77C	V	DIRECT				1.0000				
CO EQPT - DIGITAL SW	377C	V	DIRECT				1.0000				
AERIAL CABLE (FIBER)	822C	F	DIRECT				0.0000				
BURIED CABLE (FIBER)	845C	F	DIRECT				0.0000				
UNDERGROUND (FO) CA.	85C	F	DIRECT				0.0000				
CONNECTORS	57C	V	DIRECT				1.0000				
MISC. COM EQP & PWR	57C	V	SHARED				1.0000				
POLE LINE	1C	F	DIRECT	0.00			0.0000				
CONDUIT	4C	F	DIRECT				1.0000				
CONFIDENTIAL NOTICE MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC PROVIDED TO PUCO ^{\$0}										\$ 75	
										\$ 75	
FOOTNOTES											
NOTE 1: APPARENT INCONSISTENCIES BETWEEN COLUMNS F(F) AND H(H') ARE CAUSED BY COMPUTER ROUNDING.											
NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY.											
AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE; BURIED CABLE, ... ETC;											
CO EQPT - ESS = CONNECTORS + MISC. CP&E.											

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C:\123R24\LCAT\CALC\DIST			LOOP COST ANALYSIS TOOL					Bellcore®	
DIST_PLNT - WORKSHEET B			PROSPECTIVE AND ANNUAL COSTS WORKSHEET					LCAT	
Sheet 3 of 3			FACILITY TYPE: COPPER CABLE					Release: 1.0.4	
COMPANY: CINCINNATI BELL TEL.			CIRCUIT SEGMENT: SERVICE ACCESS					STUDY YR: 1996	
CITY / AREA: CINCINNATI			SERVICE CLASS: BAND 3 - RESIDENCE ISDN					TEST CASE: 1	
STATE / PROV: OHIO								RUN DATE: 29-Jan-97	
								TIME: 10:38	
PLANT ITEM	PLANT ACCT CODE	1996 TO 1996	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3922	\$ 75	\$ 29.42		\$ 2.45
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000			0.3663				
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000			0.3807				
CONDUIT	4C	1.0000			0.25				
TOTALS			\$ 0	\$ 75	\$ 75	\$ 29.42	\$ 29.42	\$ 0.00	\$ 2.45

NOTICE MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC PROVIDED TO PUCO

FOOTNOTES
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
NOTE 2: AN INVESTMENT-ONLY STUDY NEGATES ANNUAL COST COMPUTATION, THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.

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C:\123R24\LCAT\CALC\DIST		LOOP COST ANALYSIS TOOL				Bellcore®	
DIST. PLNT - REPORT 14A		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release: 1.0.4	
Sheet 1 of 3		FACILITY TYPE: COPPER CABLE				Issue Date: 8/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-COLLOC)				STUDY YR: 1996	
CITY / AREA: CINCINNATI		SERVICE CLASS: BAND 3 - RESIDENCE ISDN				TEST CASE: 1	
STATE / PROV: OHIO						RUN DATE: 29-Jan-97	
						TIME: 10:38	
		1996 UNIT MONTHLY RECURRING COST BY ACCOUNT					
		(See Note)					
		TOTAL					
		AVG. WEIGHTED					
		INVESTMENT					
		4826					

SHARED RESOURCES							
1	LAND	20C					\$ 0.00
2	BUILDING	10C					\$ 0.00
3	BLDG ENTRANCE CABLE	12C					\$ 0.00
4	INTRABLDG CABLE	52C					\$ 0.00
5	AERIAL CABLE (COPPER)	22C					\$ 0.00
6	BURIED CABLE (COPPER)	45C					\$ 0.00
7	UNDERGROUND (CU) CA.	5C					\$ 0.00
8	CO EQPT - P GAIN TERM	257C					\$ 0.00
9	CO EQPT - P GAIN CHAN	257C					\$ 0.00
10	CO EQPT - FO MUX TERM	857C					\$ 0.00
11	CO EQPT - FO MUX CHAN	857C					\$ 0.00
12	CO EQPT - ANALOG SW	77C					\$ 0.00
13	CO EQPT - DIGITAL SW	377C					\$ 0.00
14	AERIAL CABLE (FIBER)	822C					\$ 0.00
15	BURIED CABLE (FIBER)	845C					\$ 0.00
16	UNDERGROUND (FO) CA.	85C					\$ 0.00
17	CONNECTORS	57C					\$ 0.00
18	MISC. COM EQP & PWR	57C					\$ 0.00
19	POLE LINE	1C					\$ 0.00
20	CONDUIT	4C					\$ 0.00
21							
22	DIRECT RESOURCES						
23	LAND	20C					\$ 0.00
24	BUILDING	10C					\$ 0.00
25	BLDG ENTRANCE CABLE	12C					\$ 0.00
26	INTRABLDG CABLE	52C					\$ 0.00
27	AERIAL CABLE (COPPER)	22C	\$ 11.23				\$ 11.23
28	BURIED CABLE (COPPER)	45C	\$ 11.51				\$ 11.51
29	UNDERGROUND (CU) CA.	5C					\$ 0.00
30	CO EQPT - P GAIN TERM	257C					\$ 0.00
31	CO EQPT - P GAIN CHAN	257C					\$ 0.00
32	CO EQPT - FO MUX TERM	857C					\$ 0.00
33	CO EQPT - FO MUX CHAN	857C					\$ 0.00
34	CO EQPT - ANALOG SW	77C					\$ 0.00
35	CO EQPT - DIGITAL SW	377C					\$ 0.00
36	AERIAL CABLE (FIBER)	822C					\$ 0.00
37	BURIED CABLE (FIBER)	845C					\$ 0.00
38	UNDERGROUND (FO) CA.	85C					\$ 0.00
39	CONNECTORS	57C					\$ 0.00
40	MISC. COM EQP & PWR	57C					\$ 0.00
41	POLE LINE	1C	\$ 2.68				\$ 2.68
42	CONDUIT	4C					\$ 0.00
43							
44	SPAN SUMMARY		\$ 25.42	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
45	AVG. WTD. SPAN SUMMARY		\$ 25.42	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
46							
47	NOTE:	[sum(INV _{ACCT} BAND * MIX BAND)]					\$ 25.42

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01123R24LCATCALC/DIST
DIST_PLNT - REPORT 14B
Sheet 1 of 1

LOOP COST ANALYSIS TOOL
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Belcore®
LCAT
Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 29-Jan-97
TIME: 10:38

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

CIRCUIT SEGMENT: SERVICE ACCESS
SERVICE CLASS: BAND 3 - RESIDENCE ISDN

1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

PLANT / ITEM	PLANT ACCT CODE	BAND MIX AVG. LGTH.	ALL
SHARED RESOURCES			
LAND	20C		
BUILDING	10C		
BLDG ENTRANCE CABLE	12C		
INTRABLDG CABLE	52C		
AERIAL CABLE (COPPER)	22C		
BURIED CABLE (COPPER)	45C		
UNDERGROUND (CU) CA.	5C		
CO EQPT - P GAIN TERM	257C		
CO EQPT - P GAIN CHAN	257C		
CO EQPT - FO MUX TERM	857C		
CO EQPT - FO MUX CHAN	857C		
CO EQPT - ANALOG SW	77C		
CO EQPT - DIGITAL SW	377C		
AERIAL CABLE (FIBER)	822C		
BURIED CABLE (FIBER)	845C		
UNDERGROUND (FO) CA.	85C		
CONNECTORS	57C		
MISC. COM EQP & PWR	57C		
POLE LINE	1C		
CONDUIT	4C		
DIRECT RESOURCES			
LAND	20C		
BUILDING	10C		
BLDG ENTRANCE CABLE	12C	2.45	
INTRABLDG CABLE	52C		
AERIAL CABLE (COPPER)	22C		
BURIED CABLE (COPPER)	45C		
UNDERGROUND (CU) CA.	5C		
CO EQPT - P GAIN TERM	257C		
CO EQPT - P GAIN CHAN	257C		
CO EQPT - FO MUX TERM	857C		
CO EQPT - FO MUX CHAN	857C		
CO EQPT - ANALOG SW	77C		
CO EQPT - DIGITAL SW	377C		
AERIAL CABLE (FIBER)	822C		
BURIED CABLE (FIBER)	845C		
UNDERGROUND (FO) CA.	85C		
CONNECTORS	57C		
MISC. COM EQP & PWR	57C		
POLE LINE	1C		
CONDUIT	4C		
SPAN TOTAL			

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RUN - SUB PRI

LAST UPDATE

29-Jan-97

09:57

LOOP COST ANALYSIS TOOL

Bellcore (A)

LCAT

Release: 1.0.4

Issued: 7/31/95

FEEDER SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO) RESIDENCE ISDN STUDY 18001 FEET - INFINI

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST CASE	1
FR / DS	FLAT RATE	#BANDS	0
SVC LEVEL	NARBAND	#CKTS	1
CST METH	UN INCR	ANN COST	

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SUB_PRI - WORKSHEET

Sheet 1 of 3

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

LOOP COST ANALYSIS TOOL

BASIC INVESTMENT WORKSHEET

CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS

FACILITY TYPE: COPPER CABLE

CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB - PRIMARY

SERVICE CLASS: BAND 3 - RESIDENCE ISDN

Bellcore®

LCAT Release: 1.0.4

Issue Date: 7/31/95

STUDY YR: 1996

TEST CASE: 1

RUN DATE: 29-Jan-97

TIME: 10:39

SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM TABLE 2 RELATIVE MIX OF TYPE OF CA. PLANT		FROM TABLE 4 MLD CABLE DESIGN INVEST. PER PAIR FOOT		CABLE COMPONENTS			WEIGHTED DROP WIRE ADJUSTMENT PER PAIR [UI*DTC]
		[B]	[C=A*B]	[D]	[E=C*D]	WEIGHTED TERMINAL INVESTMENT PER PAIR [UI*DTC]	AIR DRYER INVESTMENT PER PAIR	DROP WIRE ADJUSTMENT PER PAIR [E*fcfr]	
300	AERIAL	0.810000	243.00	0.011300	2.75		0.00	0.00	
MELDED GAUGE/S/ COPPER	BURIED	0.040000	12.00	0.018900	0.23		0.00	0.00	
CABLE	UNDERGRND	0.150000	45.00	0.012000	0.54		0.00	0.00	
CHECK =		1.000000							

ADDITIONAL CALCULATIONS FOR CENTRAL OFFICE INVESTMENTS

INVESTMENT PER CIRCUIT TERMINATION

(CO CONN) CONNECTORS (col77c) =

\$ 0.00

inv / unit lgth: inv rtrn fcfr:

0.000000 0.253000

POLE LINE FACTOR =

POLE LINE INVESTMENT =

(UTIL AERIAL INVEST x PL)

\$ 1.16

UG CONDUIT FACTOR =

CONDUIT INVESTMENT =

(UTIL UNDGRND INVEST x UC)

0.000000

0.516500

\$ 0.46

MISC. COMMON EQPT. & POWER FACTOR =

0.112700

MCE&P INVESTMENT (CO CONN x FACTOR) =

\$ 0.00

LAND FACTOR =

LAND NVST (CO CONN x MCE&P) x FACTOR =

\$ 0.00

BUILDING FACTOR =

BLDG NVST (CO CONN x MCEP) x FACTOR =

0.13160

\$ 0.00

PERCENT OF CO CONN AT DIGITAL SWITCHES

100.0000

PERCENT OF CO CONN AT ANALOG SWITCHES

0.0000

FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES MAY BE CAUSED BY COMPUTER ROUNDING.

NOTE 2: E * fcfr = INVESTMENT x DROP WIRE ADJUSTMENT FACTOR (MISCA or MISCB)

NOTE 3: UI * DTC = UNIT INVESTMENT x PROBABILITY OF OCCURANCE.

NOTE 4: MATRIX 2 & 4 DEVELOPMENT SHOWN ON WORKSHEET C (#5,#6).

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C:\123R24\LCAT\CALC\CUTECH
 SUB_PRI - WORKSHEET
 Sheet 2 of 3

LOOP COST ANALYSIS TOOL
 ACCOUNT INVESTMENT WORKSHEET
 CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS
 FACILITY TYPE: COPPER CABLE
 CIRCUIT SEGMENT: MELDED GAUGE'S SUB-PRIMARY
 SERVICE CLASS: BAND 3 - RESIDENCE ISDN

Belcore (R)
 LCAT Release: 1.0.4
 Issue Date: 7/31/95
 STUDY YR: 1996
 TEST CASE: 1
 RUN DATE: 29-Jan-97
 TIME: 10:39

COMPANY: CINCINNATI BELL TEL.
 CITY / AREA: CINCINNATI
 STATE / PROV: OHIO

PLANT ITEM	PLANT ACCT CODE	FIXED VAR CAT	RESOURCE ALLOCATION T	1996 UNIT INVESTMENT BY ACCOUNT	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION	
				COST EQUATION [F]		SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F'*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]
LAND	20C	F	SHARED	0.00				1.0000		
BUILDING	10C	F	SHARED	0.00				1.0000		
BLDG ENTRANCE CABLE	12C	V	DIRECT					1.0000		
INTRABLDG CABLE	52C	V	DIRECT					0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT	2.75	1		\$ 3	0.6000		\$ 5
BURIED CABLE (COPPER)	45C	V	DIRECT	0.23	1		\$ 0	0.6000		\$ 0
UNDERGROUND (CU) CA.	5C	V	DIRECT	0.54	1		\$ 1	0.6000		\$ 1
CO EQPT - LOW CAP TERM	257C	F	DIRECT					0.7000		
CO EQPT - LOW CAP CHAN	257C	V	DIRECT					0.7000		
CO EQPT - HI CAP TERM	857C	F	DIRECT					1.0000		
CO EQPT - HI CAP CHAN	857C	F	DIRECT					1.0000		
CO EQPT - ANALOG SW	77C	V	DIRECT	0.00				1.0000		
CO EQPT - DIGITAL SW	377C	V	DIRECT	0.00				1.0000		
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.3300		
BURIED CABLE (FIBER)	845C	F	DIRECT					0.3300		
UNDERGROUND (FO) CA.	85C	F	DIRECT					0.3300		
CONNECTORS	57C	V	DIRECT					1.0000		
MISC. COM EQP & PWR	57C	V	SHARED	0.00				1.0000		
POLE LINE	1C	F	DIRECT	1.18	1		\$ 1	1.0000		\$ 1
CONDUIT	4C	F	DIRECT	0.46	1		\$ 0	1.0000		\$ 0
TOTALS										\$ 7

FOOTNOTES
 NOTE 1: APPARENT INCONSISTENCIES BETWEEN COLUMNS F AND H (H') ARE CAUSED BY COMPUTER ROUNDING.
 NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY OF CABLE COMPONENTS:
 AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE ADJ; BURIED CABLE, ... ETC;
 CO EQPT - ESS = CONNECTORS + MISC. CP&E.

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LOOP COST ANALYSIS TOOL									
PROSPECTIVE AND ANNUAL COSTS WORKSHEET									
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS									
FACILITY TYPE: COPPER CABLE									
CIRCUIT SEGMENT: [MELEDED GAUGE/S/ SUB-PRIMARY]									
SERVICE CLASS: BAND 3 - RESIDENCE ISDN									
1996 UNIT									
LOOP INVESTMENTS BY ACCOUNT									
1996 UNIT									
ANNUAL COSTS BY ACCOUNT									
MONTHLY RECURRING COSTS BY ACCOUNT									
PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]	ANNUAL COST FACTOR [N]	SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000		\$ 5	0.4033		\$ 1.85		\$ 0.15
BURIED CABLE (COPPER)	45C	1.0000		\$ 0	0.3467		\$ 0.13		\$ 0.01
UNDERGROUND (CU) CA.	5C	1.0000		\$ 1	0.3663		\$ 0.33		\$ 0.03
CO EQPT - LOW CAP TERM	257C	1.0000			0.3881				
CO EQPT - LOW CAP CHAN	257C	1.0000			0.3881				
CO EQPT - HI CAP TERM	857C	1.0000			0.3881				
CO EQPT - HI CAP CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3468				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000		\$ 1	0.3807		\$ 0.44		\$ 0.04
CONDUIT	4C	1.0000		\$ 0	0.2521		\$ 0.14		\$ 0.01
SUBTOTALS			\$ 0	\$ 7		\$ 0.00	\$ 2.86	\$ 0.00	\$ 0.24
TOTALS				\$ 7			\$ 2.86		\$ 0.24
			culpinvsy			culpac		culpmrc	

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FOOTNOTES
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
NOTE 2: AN INVESTMENT - ONLY STUDY NEGATES ANNUAL COST COMPUTATION, THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.

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C:\123R24\LCATCALC\CUTECH		LOOP COST ANALYSIS TOOL				Bellcore (R)	
SUB PR - REPORT 14		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release: 1.0.4	
Sheet 1 of 1		COMPANY: CINCINNATI BELL TEL				Issue Date: 7/31/95	
CITY / AREA: CINCINNATI		FACILITY SEGMENT: SUB-PRIMARY PLANT				STUDY YR: 1996	
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - RESIDENCE ISDN				TEST CASE: 1	
						RUN DATE: 29-Jan-97	
						TIME: 10:39	
		1996 UNIT MONTHLY RECURRING COST BY ACCOUNT					
		(SEE NOTE)					
		TOTAL					
		AVG. WEIGHTED					
		300					
SHARED RESOURCES							
1	LAND	20C					\$ 0.00
2	BUILDING	10C					\$ 0.00
3	BLDG ENTRANCE CABLE	12C					\$ 0.00
4	INTRABLDG CABLE	52C					\$ 0.00
5	AERIAL CABLE (COPPER)	22C					\$ 0.00
6	BURIED CABLE (COPPER)	45C					\$ 0.00
7	UNDERGROUND (CU) CA.	5C					\$ 0.00
8	CO EQPT - P GAIN TERM	257C					\$ 0.00
9	CO EQPT - P GAIN CHAN	257C					\$ 0.00
10	CO EQPT - FO MUX TERM	857C					\$ 0.00
11	CO EQPT - FO MUX CHAN	857C					\$ 0.00
12	CO EQPT - ANALOG SW	77C					\$ 0.00
13	CO EQPT - DIGITAL SW	377C					\$ 0.00
14	AERIAL CABLE (FIBER)	822C					\$ 0.00
15	BURIED CABLE (FIBER)	845C					\$ 0.00
16	UNDERGROUND (FO) CA.	85C					\$ 0.00
17	CONNECTORS	57C					\$ 0.00
18	MISC. COM EQP & PWR	57C					\$ 0.00
19	POLE LINE	1C					\$ 0.00
20	CONDUIT	4C					\$ 0.00
DIRECT RESOURCES							
21	LAND	20C					\$ 0.00
22	BUILDING	10C					\$ 0.00
23	BLDG ENTRANCE CABLE	12C					\$ 0.00
24	INTRABLDG CABLE	52C					\$ 0.00
25	AERIAL CABLE (COPPER)	22C	\$ 0.15				\$ 0.15
26	BURIED CABLE (COPPER)	45C	\$ 0.01				\$ 0.01
27	UNDERGROUND (CU) CA.	5C	\$ 0.03				\$ 0.03
28	CO EQPT - P GAIN TERM	257C					\$ 0.00
29	CO EQPT - P GAIN CHAN	257C					\$ 0.00
30	CO EQPT - FO MUX TERM	857C					\$ 0.00
31	CO EQPT - FO MUX CHAN	857C					\$ 0.00
32	CO EQPT - ANALOG SW	77C					\$ 0.00
33	CO EQPT - DIGITAL SW	377C					\$ 0.00
34	AERIAL CABLE (FIBER)	822C					\$ 0.00
35	BURIED CABLE (FIBER)	845C					\$ 0.00
36	UNDERGROUND (FO) CA.	85C					\$ 0.00
37	CONNECTORS	57C					\$ 0.00
38	MISC. COM EQP & PWR	57C					\$ 0.00
39	POLE LINE	1C	0.0	\$ 0.04			\$ 0.04
40	CONDUIT	4C	0.0	\$ 0.01			\$ 0.01
41	SPAN SUMMARY		\$ 0.24	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.24
42	AVG. WTD. SPAN SUMMARY		\$ 0.24	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
NOTE: [sum(INV _{ACCT} ^{BAND} * MIX ^{BAND})]							

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C:\123R24\LCATC\ALC\CUPRGN
RUN - CDLC PLANT

LAST UPDATE

29-Jan-97

09:58

LOOP COST ANALYSIS TOOL

Belcore^(TM)

LCAT

Release: 1.0.4

Issued: 8/31/95

FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO) RESIDENCE ISDN STUDY 18001 FEET - INFINITY INTRASTATE

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST CASE	1
FR / DS	FLAT RATE	# BANDS	3
SVC LEVEL	NARBAND	# CKTS	
CST METH	UN INCR	INV LEVEL	ANN COST

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LOOP COST ANALYSIS TOOL										Bellcore	
BASIC INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET										Issue Date: 8/31/95	
FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY										STUDY YR: 1996	
FACILITY TYPE: COPPER DIG LOOP CRR										TEST CASE: 1	
CIRCUIT DESIGN: T1C										DATE: 29-Jan-97	
SERVICE CLASS: BAND 3 - RESIDENCE ISDN										TIME: 10:41 AM	
COMPANY: CINCINNATI BELL TEL											
CITY / AREA: OHIO											
STATE / PROV: CINCINNATI											
28127 cur length											
300 curstar-grd											
I = 0.125 pgfactor											
CABLE COMPONENTS (NOTE 5)											
(NOTE 4)											
(NOTE 5)											
SEGMENT LENGTH IN FEET	TYPE OF CABLE	RELATIVE MIX OF TYPE OF CABLE	EFFECTIVE LENGTH SUBSET BY TYPE OF PLANT	MELDED INVEST. PER UNIT FOOT	CABLE INVESTMENT PER CHAN	WEIGHTED TERMINAL INVESTMENT	AIR DRYER INVESTMENT PER PAR	DROP WIRE ADJUSTMENT PER PAR	WEIGHTED DROP WIRE INVESTMENT PER PAR		
[A]	[B]	[C=A*B*F]	[D]	[E=C*D]	[U1*DTC]	[E*Fctr]	[E*Fctr]	[E*Fctr]	[U1*DTC]		
23001	AERIAL	0.810000	2328.85	0.022600	\$ 52.63		\$ 0.00				
CO TO RT LINK											
ON	BURIED	0.040000	115.01	0.037800	\$ 4.35		\$ 0.00				
COPPER CABLE DLC											
24.00 GA. FACILITIES	UNDERGRD	0.150000	431.27	0.024000	\$ 10.35		\$ 0.00				
		1.000000									
OUTSIDE PLANT LOADINGS (NOTE 5):											
ADJUST. / LOAD FACTORS TO AERIAL PFI											
ADJUST. / LOAD FACTORS TO BURIED PFI											
ADJUST. / LOAD FACTORS TO UGD PFI											
DLC EQUIPMENT INVEST. (NOTE 2):											
INT DLC EQUIP INVEST. (CU COMUX) =											
INT DLC EQUIP INVEST. (CU RTMUX) =											
UNIV DLC EQUIP INVEST. (CU COMUX) =											
UNIV DLC EQUIP INVEST. (CU RTMUX) =											
DLC EQUIP INVEST. (CU LINE) =											
CONDUIT INVEST. FOR DLC CEV FACILITIES = conpgmvst											
OTHER INVESTMENT											
POLE LINE FACTOR (PLF) =											
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =											
UGD CONDUIT FACTOR (UCF) =											
CONDUIT INVESTMENT (UTIL UNDGRD INVEST x UCF) =											
EQUIPMENT INVESTMENT LOADINGS											
INVEST. PER CHAN. FOR DLC TERM (co conn) =											
MISC. COM. EQPT. & POWER FACTOR FOR DLC (rem) =											
MISC. COM. EQPT. & POWER FACTOR FOR DLC (c.o.) =											
MCE&P INVEST. (CU REMMUX x MCEP) =											
MCE&P INVEST. (CDLCMUX x MCEP) =											
MCE&P INVEST. (CO CONN x MCEP) =											
OTHER INVESTMENT											
LAND FACTOR FOR DLC (LANDf rem) =											
LAND FACTOR FOR DLC (LANDf c.o.) =											
LAND INVEST. (CU COMUX+MCEP) x LANDf =											
LAND INVEST. ((CO CONN+MCEP) x LANDf) =											
BUILDING FACTOR FOR DLC (BLDGf rem.) =											
BUILDING FACTOR FOR DLC (BLDGf c.o.) =											
BLDG INVEST. (CDLCMUX+MCEP) x BLDGf =											
BLDG INVEST. ((CO CONN+MCEP) x BLDGf) =											
LOOP TOPOLOGY											
STAR											
AVERAGE NUMBER OF HUBS											
ADDITIONAL LENGTH OFFRING OSP REQUIRED											
MIX OF CENT. OFC. ANALOG INTFC											
MIX OF CENT. OFC. DIGITAL INTFC											
MIX OF UNIVERSAL DLC INTFC											
MIX OF INTEGRATED DIGITAL INTFC											
FOOTNOTES											
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.											
NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED.											
NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSEET B; FOR 4 WIRE SERVICES, TABLE 4 IS MULT BY 2.											
NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT.											
NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.											

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LOOP COST ANALYSIS TOOL										Belcore TM	
ACCOUNT INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET										Issue Date: 6/31/95	
FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY										STUDY YR: 1996	
FACILITY TYPE: COPPER DIG LOOP CXX										TEST CASE: 1	
CIRCUIT DESIGN: T/C										DATE: 29-Jan-97	
SERVICE CLASS: BAND 3 - RESIDENCE (SDN)										TIME: 10:41 AM	
PLANT ITEM	ACCT CODE	FIXED VARI SUNK	RESOURCE ALLOCATION	1996 UNIT INVESTMENTS BY ACCOUNT	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL UTILIZATION		ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL UTILIZATION		
				COST EQUATION [F]		SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]	
LAND	20C	F	SHARED	5.56	1	\$ 6		1.0000	\$ 6		
BUILDING	10C	F	SHARED	130.69	1	\$ 131		1.0000	\$ 131		
BLDG ENTRANCE CABLE	12C	---	---					1.0000			
INTRABLDG CABLE	52C	---	---					0.3500			
AERIAL CABLE (COPPER)	22C	V	DIRECT	52.63	1		\$ 53	0.6000		\$ 88	
BURIED CABLE (COPPER)	45C	V	DIRECT	4.35	1		\$ 4	0.6000		\$ 7	
UNDERGROUND (CU) CA.	5C	V	DIRECT	10.35	1		\$ 10	0.6000		\$ 17	
CO EQPT - P GAIN TERM	257C	F	DIRECT	236.15	1		\$ 236	0.7000		\$ 337	
CO EQPT - P GAIN CHAN	257C	V	DIRECT	710.72	1		\$ 711	0.7000		\$ 1,015	
CO EQPT - FO MUX TERM	857C	F	DIRECT					1.0000			
CO EQPT - FO MUX CHAN	857C	F	DIRECT					1.0000			
CO EQPT - ESS - ANALOG	77C	V	DIRECT	0.00				1.0000			
CO EQPT - ESS - DIGITAL	377C	V	DIRECT	0.00				1.0000			
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.3300			
BURIED CABLE (FIBER)	845C	F	DIRECT					0.3300			
UNDERGROUND (FO) CA.	85C	F	DIRECT					0.3300			
CONNECTORS	57C	V	DIRECT					1.0000			
MISC. COM EQP & PWR	57C	V	SHARED	45.20	1	\$ 45		1.0000	\$ 45		
POLE LINE	1C	F	DIRECT	22.19	1		\$ 22	1.0000		\$ 22	
CONDUIT	4C	F	DIRECT	8.91	1		\$ 9	1.0000		\$ 9	
TOTALS											

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\$1,677

FOOTNOTES

- NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
- NOTE 2: CO EQPT - CKT PG TERM = PG EQ INV TERM + MC&P INV
 CO EQPT - CKT PG CHAN = PG EQ INV CHAN + ORB INV
 CO EQPT - ANALOG/DIGITAL ESS = C.O. CONN INV + MC&P INV

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CA123R24LCATCALCICUPRGN		LOOP COST ANALYSIS TOOL		Belcore (P)	
CDLG PLANT - REPORT 14.1		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY		LCAT Release: 1.0.4	
Sheet 1 of 3		COMPANY: CINCINNATI BELL TEL.		Issue Date: 8/31/95	
CITY / AREA: CINCINNATI		FACILITY SEGMENT: PRIMARY FEEDER SEGMENT		STUDY YR: 1995	
STATE / PROV: OHIO		CIRCUIT DESIGN: COPPER DIG LOOP CXR		TEST CASE: 1	
		SERVICE CLASS: BAND 3 - RESIDENCE ISDN		DATE: 29-Jan-97	
				TIME: 10:41 AM	
1995 UNIT MONTHLY RECURRING COST BY ACCOUNT					
				(SEE NOTE)	
				TOTAL	
				AVG. WEIGHTED	
				INVESTMENT	
				23001	
SHARED RESOURCES					
1	LAND	20C	\$ 0.11		\$ 0.11
2	BUILDING	10C	\$ 3.20		\$ 3.20
3	BLDG ENTRANCE CABLE	12C			\$ 0.00
4	INTRABLDG CABLE	52C			\$ 0.00
5	AERIAL CABLE (COPPER)	22C			\$ 0.00
6	BURIED CABLE (COPPER)	45C			\$ 0.00
7	UNDERGROUND (CU) CA.	5C			\$ 0.00
8	CO EQPT - P GAIN TERM	257C			\$ 0.00
9	CO EQPT - P GAIN CHAN	257C			\$ 0.00
10	CO EQPT - FO MUX TERM	857C			\$ 0.00
11	CO EQPT - FO MUX CHAN	857C			\$ 0.00
12	CO EQPT - ANALOG SW	77C			\$ 0.00
13	CO EQPT - DIGITAL SW	377C			\$ 0.00
14	AERIAL CABLE (FIBER)	822C			\$ 0.00
15	BURIED CABLE (FIBER)	845C			\$ 0.00
16	UNDERGROUND (FO) CA.	85C			\$ 0.00
17	CONNECTORS	57C			\$ 0.00
18	MISC. COM EQP & PWR	57C	\$ 1.46		\$ 1.46
19	POLE LINE	1C			\$ 0.00
20	CONDUIT	4C			\$ 0.00
DIRECT RESOURCES					
21	LAND	20C			\$ 0.00
22	BUILDING	10C			\$ 0.00
23	BLDG ENTRANCE CABLE	12C			\$ 0.00
24	INTRABLDG CABLE	52C			\$ 0.00
25	AERIAL CABLE (COPPER)	22C	\$ 2.95		\$ 2.95
26	BURIED CABLE (COPPER)	45C	\$ 0.21		\$ 0.21
27	UNDERGROUND (CU) CA.	5C	\$ 0.53		\$ 0.53
28	CO EQPT - P GAIN TERM	257C	\$ 10.91		\$ 10.91
29	CO EQPT - P GAIN CHAN	257C	\$ 32.84		\$ 32.84
30	CO EQPT - FO MUX TERM	857C			\$ 0.00
31	CO EQPT - FO MUX CHAN	857C			\$ 0.00
32	CO EQPT - ANALOG SW	77C			\$ 0.00
33	CO EQPT - DIGITAL SW	377C			\$ 0.00
34	AERIAL CABLE (FIBER)	822C			\$ 0.00
35	BURIED CABLE (FIBER)	845C			\$ 0.00
36	UNDERGROUND (FO) CA.	85C			\$ 0.00
37	CONNECTORS	57C			\$ 0.00
38	MISC. COM EQP & PWR	57C			\$ 0.00
39	POLE LINE	1C	\$ 0.70		\$ 0.70
40	CONDUIT	4C	\$ 0.19		\$ 0.19
41	SPAN SUMMARY		53.09	0.00	53.09
42	AVG. WTD. SPAN SUMMARY		53.09	0.00	53.09
NOTE: [sum(INV _{ACCT} * MIX _{WTD})]					

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Bellcore (R)

RUN - FO MUX

LAST UPDATE

29-Jan-97

10:01

LOOP COST ANALYSIS TOOL

LCAT

Release: 1.0.4

Issued: 7/31/95

FEEDER SEGMENT COST MODEL - FIBER IN THE LOOP TECHNOLOGY

STUDY NAME: 1996 BAND 3 (OHIO) RESIDENCE ISDN STUDY 18001 FEET - INFINITY IN

CURRENT TEST PLAN :

CURRENT JOB IDENT.		CINCINNATI
BASIS	NETWORK	TEST CASE 1
FR / DS	FLAT RATE	#BANDS 0
SVC LEVEL	NARBAND	#CKTS 1
CST METH	UN INCR	INV LEVEL ANN COST

....your run is finished

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LOOP COST ANALYSIS TOOL										Bellcore	
BASIC INVESTMENT WORKSHEET										LCAT Rel: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1995	
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 3 - RESID SERVICE LEVEL: NARBAND										LAST RUN: 29-Jan-97	
										TIME: 10:42	
from stdr_tbi: 300 cur_sfdlength 15714 cur_pnlength from bw_mix: f = 1979.04 wtdeqvmn											
CABLE COMPONENTS (NOTE 5)											
SEGMENT LENGTH IN FEET TYPE OF CABLE PLANT RELATIVE MIX OF TYPE OF CA. PLANT EFFECTIVE LENGTH BY TYPE OF PLANT MLD CABLE DESIGN INVEST. PER PAIR FOOT WEIGHTED EFFECTIVE LGTH CABLE INVESTMENT [E=C*D] WEIGHTED TERMINAL INVESTMENT [UI*DTC] AIR DRYER INVESTMENT PER PAIR [E*factr] DROP WIRE ADJUSTMENT PER PAIR [E*factr] WEIGHTED DROP WIRE INVESTMENT PER PAIR [UI*DTC]											
to3pri_seglength [A] 23001 CO TO HUB LINK ON FIBER OPTIC FACILITIES AERIAL 0.810000 9.41 0.193000 BURIED 0.000000 0.00 0.000000 UNDERGRND 0.190000 2.21 0.222900 1.000000											
EQUIPMENT INVESTMENT LOADINGS											
OUTSIDE PLANT LOADINGS (NOTE 5): ADJUST. / LOAD FACTORS TO AERIAL PFI NA 0.0000 ADJUST. / LOAD FACTORS TO BURIED PFI NA 0.0000 ADJUST. / LOAD FACTORS TO UGD PFI NA 0.0000 DLC EQUIPMENT INVEST. (NOTE 2) INT DLC EQUIP INVEST. (CU COMUX) = intdlcco \$ 0.00 \$ 0.00 INT DLC EQUIP INVEST. (CU RTMUX) = intdlcrt \$ 141.70 \$ 348.82 UNIV DLC EQUIP INVEST. (CU COMUX) = unvdlcco \$ 39.17 \$ 361.90 UNIV DLC EQUIP INVEST. (CU RTMUX) = unvdlcrt \$ 141.70 \$ 348.82 FIBER MUX EQUIP. INV. (FO COMUX) = hubmxcco \$ 3.88 \$ 49.18 FIBER MUX EQUIP. INV. (FO RTMUX) = hubmxort \$ 2.01 \$ 53.79											
INVST. PER CHAN. FOR CA TERM (CA CONN) = \$ 0.00 MISC. COM. EQPT. & POWER FACTOR (DLCrem) = 0.1127 MISC. COM. EQPT. & POWER FACTOR (MUXrem) = 0.1127 MISC. COM. EQPT. & POWER FACTOR (OTHrem) = 0.1127 MISC. COM. EQPT. & POWER FACTOR (MUXc.o.) = 0.1127 MISC. COM. EQPT. & POWER FACTOR (DLCc.o.) = 0.1127 MISC. COM. EQPT. & POWER FACTOR (OTHc.o.) = 0.1127 MCE&P INVST. (MUXc.o.+DLCc.o.) x MCEPfc.o.) = \$ 51.18 MCE&P INVST. (MUXrem+DLCrem) x MCEPfc.o.) = \$ 61.57 MCE&P INVST. (CA CONN x MCEPfc.o.) = \$ 0.00 MCE&P INVST. (CA CONN x MCEPfc.o.) = \$ 0.00 LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0055 LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0055 LAND FACTOR FOR OTH (LANDfrem) = 0.0055 LAND FACTOR FOR DLC EQP (LANDfrem) = 0.0055 LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0055 LAND FACTOR FOR OTH (LANDfrem) = 0.0055 LAND INVST. (DLC+MUX+MCEP) x LANDfrem = \$ 2.83 LAND INVST. (MUX+DLC+MCEP) x LANDfrem = \$ 3.40 BUILDING FACTOR FOR MUX EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR MUX EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR OTH (BLDGfrem) = 0.1316 BUILDING FACTOR FOR DLC EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR MUX EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR OTH (BLDGfrem) = 0.1316 BUILDING FACTOR FOR MUX EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR OTH (BLDGfrem) = 0.1316 BLDG INVST. (MUX+DLC+MCEP) x BLDGfrem = \$ 66.50 BLDG INVST. (MUX+DLC+MCEP) x BLDGfrem = \$ 80.00											
OTHER INVESTMENT POLE LINE FACTOR (PLf) = 0.0000 0.1985 POLE LINE INVESTMENT (UTIL AERIAL INVEST x PLf) = \$ 1.08 UNDERGROUND CONDUIT FACTOR (PLf) = 0.0000 0.5232 CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCF) = \$ 0.78											
LOOP TOPOLOGY STAR AVERAGE NUMBER OF HUBS NA ADDITIONAL LENGTH OF RING OSP REQUIRED NA MIX OF CENT. OFC. ANALOG INTFC 0.0000 MIX OF CENT. OFC. DIGITAL INTFC 1.0000 MIX OF UNIVERSAL DLC INTFC 1.0000 MIX OF CENT. OFC. INTEGRATED DLC INTFC 0.0000											
FOOTNOTES NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING. NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED. NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSHEET 8; FOR 4 WIRE SERVICES, TABLE 4 IS MULT BY 2. NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT. NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.											

LOOP COST ANALYSIS TOOL										Bellicore TM	
ACCOUNT INVESTMENT WORKSHEET										LCAT Rel: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1995	
CIRCUIT DESIGN: 31 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 3 - RESID										LAST RUN: 29-Jan-97	
										TIME: 10:42	
1995 UNIT INVESTMENTS BY ACCOUNT											
1995 UNIT LOOP INVESTMENT EXCL. UTILIZATION											
1995 UNIT LOOP INVESTMENT INCL. UTILIZATION											
PLANT ITEM	PLANT ACCT CODE	FIXED VARI SUNK	RESOURCE ALLOCATION	COST EQUATION	CIRCUIT QUANTITY	SHARED RESOURCES	DIRECT RESOURCES	ADMIN. UTIL. LINE FILL	SHARED RESOURCES	DIRECT RESOURCES	
				[F]	[G]	[H=F*G]	[H'=F*G]	[J]	[K=H/J]	[K'=H'/J]	
9 LAND	20C	F	SHARED	6.23	1	\$ 6		1.0000	\$ 6		
10 BUILDING	10C	F	SHARED	146.50	1	\$ 146		1.0000	\$ 146		
11 BLDG ENTRANCE CABLE	12C	---	---					1.0000			
12 INTRABLDG CABLE	52C	---	---					0.3500			
13 AERIAL CABLE (COPPER)	22C	V	DIRECT					0.6000			
14 BURIED CABLE (COPPER)	45C	V	DIRECT					0.6000			
15 UNDERGROUND (CU) CA.	5C	V	DIRECT					0.6000			
16 CO EQPT - LOW CAP TERM	257C	F	DIRECT	180.87	1		\$ 181	0.7000		\$ 258	
17 CO EQPT - LOW CAP CHAN	257C	V	DIRECT	710.72	1		\$ 711	0.7000		\$ 1,015	
18 CO EQPT - HI CAP TERM	857C	F	DIRECT	67.46	1		\$ 67	1.0000		\$ 67	
19 CO EQPT - HI CAP CHAN	857C	F	DIRECT	102.97	1		\$ 103	1.0000		\$ 103	
20 CO EQPT - ANALOG SW	77C	V	DIRECT	0.00				1.0000			
21 CO EQPT - DIGITAL SW	377C	V	DIRECT	0.00				1.0000			
22 AERIAL CABLE (FIBER)	822C	F	DIRECT	1.82	1		\$ 2	0.3300		\$ 6	
23 BURIED CABLE (FIBER)	845C	F	DIRECT	0.00				0.3300			
24 UNDERGROUND (FO) CA.	85C	F	DIRECT	0.49	1		\$ 0	0.3300		\$ 1	
25 CONNECTORS	57C	V	DIRECT	0.00				1.0000			
26 MISC. COM EQP & PWR	57C	V	SHARED	51.18	1	\$ 51		1.0000	\$ 51		
27 POLE LINE	1C	F	DIRECT	1.08	1			1.0000		\$ 1	
28 CONDUIT	4C	F	DIRECT	0.78	1			1.0000		\$ 1	
TOTALS											
CONFIDENTIAL NOTICE MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC PROVIDED TO PUBLIC											
----- \$ 1,453 ----- \$ 1,657 feed3iy											
FOOTNOTES											
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.											
NOTE 2: P GAIN CO EQPT = PG EQ INV + HUBMUX INV + MCE&P INV.											
NOTE 3: ESS CO EQPT = C.O. CONN + MCE&P INV											
NOTE 3: CABLE INVESTMENT IS THE SUM OF THE CABLE INV [H] + DRYER INV [J] + DROP WIRE ADJUST [K]											

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LOOP COST ANALYSIS TOOL										Bellcore	
ANNUAL COSTS WORKSHEET										LCAT Rel: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1996	
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 3 - RE SERVICE LEVEL: NARBAND										LAST RUN: 29-Jan-97	
										TIME: 10:42	
C:\123R24\LCAT\CALC\FOPRGN.WK1 FO MUX - WORKSHEET 3 Sheet 3 of 3 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
PLANT ITEM		PLANT ACCT CODE	1996 TO 1996 TPI	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT		
				SHARED RESOURCES fo3sxcaset	DIRECT RESOURCES fo3dxcaset		SHARED RESOURCES	DIRECT RESOURCES	SHARED RESOURCES fo3sxcaset	DIRECT RESOURCES fo3dxcaset	
[PREVIOUS SHEET SUMMARY]			[L]	[M=K*L]	[M'=K'*L]	[N]	[P=M*N]	[P'=M'*N]	[Q=P/12]	[Q'=P'/12]	
LAND	20C	1.0000		\$ 6		0.2322	\$ 1.45		\$ 0.12		
BUILDING	10C	1.0000		\$ 146		0.2937	\$ 43.03		\$ 3.59		
BLDG ENTRANCE CABLE	12C	1.0000				0.3922					
INTRABLDG CABLE	52C	1.0000				0.3922					
AERIAL CABLE (COPPER)	22C	1.0000				0.4033					
BURIED CABLE (COPPER)	45C	1.0000				0.3467					
UNDERGROUND (CU) CA.	5C	1.0000				0.3683					
CO EQPT - LOW CAP TERM	257C	1.0000			\$ 258	0.3881		\$ 100.28		\$ 8.36	
CO EQPT - LOW CAP CHAN	257C	1.0000			\$ 1,015	0.3881		\$ 394.04		\$ 32.84	
CO EQPT - HI CAP TERM	857C	1.0000			\$ 67	0.3881		\$ 26.18		\$ 2.18	
CO EQPT - HI CAP CHAN	857C	1.0000			\$ 103	0.3881		\$ 39.96		\$ 3.33	
CO EQPT - ANALOG SW	77C	1.0000				0.0000					
CO EQPT - DIGITAL SW	377C	1.0000				0.3458					
AERIAL CABLE (FIBER)	822C	1.0000			\$ 6	0.2983		\$ 1.84		\$ 0.14	
BURIED CABLE (FIBER)	845C	1.0000				0.2724					
UNDERGROUND (FO) CA.	85C	1.0000			\$ 1	0.2689		\$ 0.40		\$ 0.03	
CONNECTORS	57C	1.0000				0.3881					
MISC. COM EQP & PWR	57C	1.0000		\$ 51		0.3881	\$ 19.86		\$ 1.66		
POLE LINE	1C	1.0000			\$ 1	0.3807		\$ 0.41		\$ 0.03	
CONDUIT	4C	1.0000			\$ 1	0.2521		\$ 0.20		\$ 0.02	
TOTALS				\$ 204	\$ 1,453		\$ 493.4	\$ 563.12	\$ 5.36	\$ 46.93	
					\$ 1,857		\$ 627.46		\$ 52.29		
				feed3sy			feed3ann		feed3mrc		

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FOOTNOTES
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
NOTE 2: AN INVESTMENT-ONLY STUDY NEGATES ANNUAL COST COMPUTATION, HOWEVER, THIS COLUMN IS PRESENTED FOR CONSISTENCY OF FORMAT ONLY.

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C:\123R24\LCATCALC\F0PRGN.WK1		LOOP COST ANALYSIS TOOL		Bellcore [®]	
FO_MUX - REPORT 14.3		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY		LCAT Rel: 1.0.4	
Sheet 1 of 1		FOR PRIMARY FEEDER PLANT		ISSUE DATE: 7/31/95	
COMPANY: CINCINNATI BELL TEL.		FACILITY TYPE: FIBER IN THE LOOP		STUDY YR: 1996	
CITY / AREA: CINCINNATI		CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.		TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - RESD. SERVICE LEVEL: NARBAND		LAST RUN: 29-Jan-97	
				TIME: 10:43	
data = 14e3 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT (SEE NOTE)					
BAND		0		TOTAL	
PLANT MIX		1.0000		AVG WEIGHTED	
ACCT AVG.				INVESTMENT	
CODE LGTH		28127			
SEGLGTH		23001		23001	
SHARED RESOURCES					
LAND	20C	\$ 0.12			\$ 0.12
BUILDING	10C	\$ 3.59			\$ 3.59
BLDG ENTRANCE CABLE	12C				\$ 0.00
INTRABLDG CABLE	52C				\$ 0.00
AERIAL CABLE (COPPER)	22C				\$ 0.00
BURIED CABLE (COPPER)	45C				\$ 0.00
UNDERGROUND (CU) CA.	5C				\$ 0.00
CO EQPT - LOW CAP TERM	257C				\$ 0.00
CO EQPT - LOW CAP CHAN	257C				\$ 0.00
CO EQPT - HI CAP TERM	857C				\$ 0.00
CO EQPT - HI CAP CHAN	857C				\$ 0.00
CO EQPT - ANALOG SW	77C				\$ 0.00
CO EQPT - DIGITAL SW	377C				\$ 0.00
AERIAL CABLE (FIBER)	822C				\$ 0.00
BURIED CABLE (FIBER)	845C				\$ 0.00
UNDERGROUND (FO) CA.	85C				\$ 0.00
CONNECTORS	57C				\$ 0.00
MISC. COM EQP & PWR	57C	\$ 1.66			\$ 1.66
POLE LINE	1C				\$ 0.00
CONDUIT	4C				\$ 0.00
DIRECT RESOURCES					
LAND	20C				\$ 0.00
BUILDING	10C				\$ 0.00
BLDG ENTRANCE CABLE	12C				\$ 0.00
INTRABLDG CABLE	52C				\$ 0.00
AERIAL CABLE (COPPER)	22C				\$ 0.00
BURIED CABLE (COPPER)	45C				\$ 0.00
UNDERGROUND (CU) CA.	5C				\$ 0.00
CO EQPT - LOW CAP TERM	257C	\$ 8.36			\$ 8.36
CO EQPT - LOW CAP CHAN	257C	\$ 32.84			\$ 32.84
CO EQPT - HI CAP TERM	857C	\$ 2.18			\$ 2.18
CO EQPT - HI CAP CHAN	857C	\$ 3.33			\$ 3.33
CO EQPT - ANALOG SW	77C				\$ 0.00
CO EQPT - DIGITAL SW	377C				\$ 0.00
AERIAL CABLE (FIBER)	822C	\$ 0.14			\$ 0.14
BURIED CABLE (FIBER)	845C				\$ 0.00
UNDERGROUND (FO) CA.	85C	\$ 0.03			\$ 0.03
CONNECTORS	57C				\$ 0.00
MISC. COM EQP & PWR	57C				\$ 0.00
POLE LINE	1C	\$ 0.03			\$ 0.03
CONDUIT	4C	\$ 0.02			\$ 0.02
SPAN SUMMARY		52.29	0.00	0.00	\$ 52.29
AVG. WTD. SPAN SUMMARY		52.29	0.00	0.00	\$ 52.29
NOTE: [sum(INV _{ACCT} ^{BAND} * MIX ^{BAND})]					

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C:\123R24\LCATR099 COSTMETH

LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - COST METH
SHEET 1 of 2COST METHODS ASSIGNMENT TABLE
DISTRIBUTION SEGMENTCOMPANY: CINCINNATI BELL TEL
STATE: OHIO

SWITCHED SERVICES

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 24-Oct-96
TIME: 13:03

PLANT ITEM	LCAT CODE	WHEN BANDWIDTH DELIVERY IS											
		NARROWBAND				WIDEBAND		BROADBAND					
		CATEGORY	SENS.	RESOURCE	ASSIGNMENT	CATEGORY	SENS.	RESOURCE	ASSIGNMENT				
		PLANT CODE	INDEX			INDEX				INDEX			
LAND	LAND	20C	F	SHARED	F	SHARED	F	SHARED	F	SHARED			
BUILDING	BLDG	10C	F	SHARED	F	SHARED	F	SHARED	F	SHARED			
BLDG ENTRANCE CABLE	BEC	12C	V	DIRECT	V	DIRECT	V	DIRECT	V	DIRECT			
INTRABLDG CABLE	IBC	52C	V	DIRECT	V	DIRECT	V	DIRECT	V	DIRECT			
AERIAL CABLE (COPPER) ①	ACU	22C	V	DIRECT	V	DIRECT	V	DIRECT	V	DIRECT			
BURIED CABLE (COPPER) ①	BCU	45C	V	DIRECT	V	DIRECT	V	DIRECT	V	DIRECT			
UNDERGROUND (CU) CA. ①	UCU	5C	V	DIRECT	V	DIRECT	V	DIRECT	V	DIRECT			
CO EQPT - LOW CAP TERM	DLCT	257C	F	DIRECT	V	DIRECT	V	DIRECT	V	DIRECT			
CO EQPT - LOW CAP CHAN	DLCC	257C	V	DIRECT	V	DIRECT	V	DIRECT	V	DIRECT			
CO EQPT - HI CAP TERM	MUXT	857C	F	DIRECT	F	DIRECT	F	DIRECT	F	DIRECT			
CO EQPT - HI CAP CHAN	MUXC	857C	F	DIRECT	F	DIRECT	V	DIRECT	V	DIRECT			
CO EQPT - ANALOG SW	ACOE	77C	V	DIRECT	V	DIRECT	V	DIRECT	V	DIRECT			
CO EQPT - DIGITAL SW	DCOE	377C	V	DIRECT	V	DIRECT	V	DIRECT	V	DIRECT			
AERIAL CABLE (FIBER)	AFO	822C	F	DIRECT	F	DIRECT	F	DIRECT	F	DIRECT			
BURIED CABLE (FIBER)	BFO	845C	F	DIRECT	F	DIRECT	F	DIRECT	F	DIRECT			
UNDERGROUND (FO) CA.	UFO	85C	F	DIRECT	F	DIRECT	F	DIRECT	F	DIRECT			
CONNECTORS	CONN	57C	V	DIRECT	V	DIRECT	V	DIRECT	V	DIRECT			
MISC. COM EQP & PWR	MCEP	57C	V	SHARED	V	SHARED	V	SHARED	V	SHARED			
POLE LINE	POLE	1C	F	DIRECT	F	DIRECT	F	DIRECT	F	DIRECT			
CONDUIT	COND	4C	F	DIRECT	F	DIRECT	F	DIRECT	F	DIRECT			

FOOTNOTES

① THESE ASSIGNMENTS APPLY TO DEDICATED COPPER PAIRS (NON-MULTIPLEXED) FEEDER & DISTRIBUTION
 BY DEFINITION: ITEMS LABELED F(ixed) OR SHARED ARE EXCLUDED IN A MARGINAL COST STUDY
 ITEMS LABELED F(ixed) ARE EXCLUDED FROM ADDITIONS IN INCREMENTAL STUDIES
 ALL ITEMS ARE INCLUDED IN A PROSPECTIVE, REPLACEMENT OR NEW INSTALLATION.

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TABLE - COST_METH
Sheet 1 of 2

HELP SCREEN**Belcore** (R)

LCAT Rel : 1.0.4

Issued : 07/31/95

<u>Field / Group Title</u>	<u>Valid Inputs</u>	<u>This field or grouping defines -</u>
SERVICES	(none)	The system matrix for DISTRIBUTION cost methodology for - The User selected Service Category - SWITCHED or PRIVATE LINE.
LCAT CODE	(none)	The system key code for this cost component
PLANT CODE	Any 5 (max) char. code	The User cross-reference code for the cost component or component group. Examples are "field" codes, sub-accounts.
DELIVERY	(none)	The Service Delivery Bandwidth Capacity for each group of methodology categories. The system defines 3 - Narrowband - denotes voice grade and sub-voice grade band width. Wideband - denotes bandwidths of the first level of digital hierarchy. Broadband - denotes bandwidths of the higher levels of digital hierarchy.
CATEGORY	(none)	The group of Methodology Categories
SENSITIVITY INDEX	F, V	The Volatility Index to Distance or Demand Sensitivity - F for Fixed Value, Low sensitivity to Distance or Demand. V for Variable Usage, Cost Sensitive to Distance or Demand. S for Sunk Investment which only has an Annual Component.
RESOURCE ASSIGNMENT	SHARED, DIRECT	The Assigned Category of Circuit Function. DIRECT for Dedicated or Circuit Specific Investment. SHARED - for Multi-Circuit or Non-Specific Investment.

***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES *****
***** PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION *****

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LOOP COST ANALYSIS TOOL

Bellcore^(R)TABLE - COST METH
SHEET 2 of 2COST METHODS ASSIGNMENT TABLE
FEEDER SEGMENT

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 24-Oct-96

TIME: 13:03

COMPANY: CINCINNATI BELL TEL.
STATE: OHIO

SWITCHED SERVICES

PLANT ITEM	PLANT CODE	WHEN BANDWIDTH DELIVERY IS					
		NARROWBAND		WIDEBAND		BROADBAND	
		CATEGORY	SENS. RESOURCE INDEX ASSIGNMENT	CATEGORY	SENS. RESOURCE INDEX ASSIGNMENT	CATEGORY	SENS. RESOURCE INDEX ASSIGNMENT
LAND	20C	F	SHARED	F	SHARED	F	SHARED
BUILDING	10C	F	SHARED	F	SHARED	F	SHARED
BLDG ENTRANCE CABLE							
INTRABLDG CABLE							
AERIAL CABLE (COPPER) ①	22C	V	DIRECT	V	DIRECT	V	DIRECT
BURIED CABLE (COPPER) ①	45C	V	DIRECT	V	DIRECT	V	DIRECT
UNDERGROUND (CU) CA. ①	5C	V	DIRECT	V	DIRECT	V	DIRECT
CO EQPT - LOW CAP TERM	257C	F	DIRECT	V	DIRECT	V	DIRECT
CO EQPT - LOW CAP CHAN	257C	V	DIRECT	V	DIRECT	V	DIRECT
CO EQPT - HI CAP TERM	857C	F	DIRECT	F	DIRECT	F	DIRECT
CO EQPT - HI CAP CHAN	857C	V	DIRECT	F	DIRECT	V	DIRECT
CO EQPT - ANALOG SW	77C	V	DIRECT	V	DIRECT	V	DIRECT
CO EQPT - DIGITAL SW	377C	V	DIRECT	V	DIRECT	V	DIRECT
AERIAL CABLE (FIBER)	822C	F	DIRECT	F	DIRECT	F	DIRECT
BURIED CABLE (FIBER)	845C	F	DIRECT	F	DIRECT	F	DIRECT
UNDERGROUND (FO) CA.	85C	F	DIRECT	F	DIRECT	F	DIRECT
CONNECTORS	57C	V	DIRECT	V	DIRECT	V	DIRECT
MISC. COM EQP & PWR	57C	V	SHARED	V	SHARED	V	SHARED
POLE LINE	1C	F	DIRECT	F	DIRECT	F	DIRECT
CONDUIT	4C	F	DIRECT	F	DIRECT	F	DIRECT

FOOTNOTES

- ① THESE ASSIGNMENTS APPLY TO MULTIPLEXED COPPER FEEDER SEGMENTS ONLY
- BY DEFINITION: ITEMS LABELED F(fixed) OR SHARED ARE EXCLUDED IN A MARGINAL COST STUDY
- ITEMS LABELED F(fixed) ARE EXCLUDED FROM ADDITIONS IN INCREMENTAL STUDIES
- ALL ITEMS ARE INCLUDED IN A PROSPECTIVE, REPLACEMENT OR NEW INSTALLATION.

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TABLE - COST_METH
Sheet 2 of 2

HELP SCREEN**Belcore** (R)

LCAT Rel : 1.0.4

Issued : 07/31/95

<u>Field / Group Title</u>	<u>Valid Inputs</u>	<u>This field or grouping defines -</u>
SERVICES	(none)	The system matrix for FEEDER cost methodology for - The User selected Service Category - SWITCHED or PRIVATE LINE.
LCAT CODE	(none)	The system key code for this cost component
PLANT CODE	(none)	The User nominated cross-reference code for the cost component or component group from the previous screen.
DELIVERY	(none)	The Service Delivery Bandwidth Capacity for each group of methodology categories. The system defines 3 - Narrowband - denotes voice grade and sub-voice grade band width. Wideband - denotes bandwidths of the first level of digital hierarchy. Broadband - denotes bandwidths of the higher levels of digital hierarchy.
CATEGORY	(none)	The group of Methodology Categories
SENSITIVITY INDEX	F, V	The Volatility Index to Distance or Demand Sensitivity - F for Fixed Value, Low sensitivity to Distance or Demand. V for Variable Usage, Cost Sensitive to Distance or Demand. S for Sunk Investment which only has an Annual Component.
RESOURCE ASSIGNMENT	SHARED, DIRECT	The Assigned Category of Circuit Function - DIRECT for Dedicated or Circuit Specific Investment. SHARED - for Multi-Circuit or Non-Specific Investment.

***** THE INPUT DATA NAMES IN RED CROSS - REFERENCE TO THE DATA CATALOG NAMES *****
***** PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION *****

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C:\123R24\LCATR099\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore (R)	
INPUT - STUDY SETUP		GENERAL STUDY REQUIREMENTS		TODAY IS : 29-Jan-97	
LCAT Rel. : 1.0.4				LAST UPDATE:	
Issue Date : 3/31/95				24-Oct-96 01:05 PM	
STUDY NAME		1996 BAND 3 (OHIO) RESIDENCE ISDN STUDY 18001 FEET -- INFINITY INTRASTATE			
COMMENTS					
SERVICE CLASS		BAND 3 - RESIDENCE ISDN		STUDY BASIS	
				☒ NETWORK	
				☐ INDIVIDUAL	
COMPANY		CINCINNATI BELL TEL.		INVESTMENT YEAR	
				1996	
STATE / PROVINCE		OHIO		LOOP CHAR. STUDY YEAR	
				1996	
CITY / AREA		CINCINNATI		STUDY YEAR	
				1996	
DENSITY CELL MIX		0 100 0 0		TEST CASE	
		VH HI MED LO		CONFIDENTIAL	
DIGITAL LOOP CARRIER FACILITIES INCLUDED IN THE STUDY:		NOTICE MUST BE GIVEN			
		Type Percent Mix :			
		100 FIBER IN THE LOOP			
		0 COPPER DIG LOOP CXR			
		PRIOR TO RELEASE TO PUBLIC			
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C:\123R24\LCATR099\CRITERIA
INPUT - STUDY SETUP
Sheet 1 of 2

HELP SCREEN

Bellcore (R)

LCAT Rel. 1.0.4
ISSUED: 3/31/95

THIS DISPLAY This display's data and the data on the subsequent display are a record of this study's criteria and the system's parameters and is the TITLE PAGE of this study. Printouts should accompany the input, worksheets, and results.

STUDY NAME Enter in Free Form up to 35 Characters for a Study Title. This data will be inserted in the title box of the title display of each run module.

COMMENTS Enter in Free Form (as in a Word Processor) FOUR lines (Word Wrap is active) of Commentary that will help Explain the study criteria and rationale. The space will allow approximately 72 proportionately spaced characters per line, 288 total. To begin just start typing in the data after <Enter>ing the previous item. The character guide will appear after the first character is entered. Data can be edited in the normal WP manner, using the <BS>, , <Up>, <Dn>, etc... keys. PRESS THE < Enter > KEY TO STOP INPUTTING DATA.

STUDY BASIS Select with an "X" either an average NETWORK study or an INDIVIDUAL CASE study.

FACILITY TYPE Select by entering the percent of technology mix, the Facility types in the loop network that support the service/s/ under study or enter an "X" to denote inclusion.

CELL DENSITY Select by entering the percent of cell density mix, based upon the scope of the jurisdiction and the definitions of the cell layers: C1, C2, C3, C4; which represent the VERY URBAN, HIGH, MEDIUM, LOW qualifiers, such as, METRO, URBAN, SUBURBAN, and RURAL.

***** PLEASE REFER TO THE USER MANUAL FOR INFORMATION *****
***** CONCERNING ANY OTHER DATA INPUT ITEMS ON THIS DISPLAY *****
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C:\123R24\LCATR099\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore (R)																
INPUT - STUDY SETUP SHEET 2 / 2 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		GENERAL STUDY REQUIREMENTS STUDY QUESTIONS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - RESIDENCE ISON		LCAT Rel: 1.0.4 ISSUED: 3/31/95 STUDY YEAR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-95 TIME: 01:05 PM																
<table style="width: 100%;"> <tr> <td style="width: 20%; vertical-align: top;"> SELECTED QUESTIONS CONCERNING -- SERVICE SPEC. OFFICE CHAR. RESULTS SPEC. </td> <td style="width: 60%; vertical-align: top;"> 1. Is this Study for a NEW Installation or an ADDITION ? 2. Is this Study for a SWITCHED or PRIVATE LINE Service ? 3. Is this Study for Narrow, Wide, or Broadband Services 4. Is this Study for 2 Wire or 4 Wire Transmission ? 5. What Percent of the C.O. Switch Installations are DIGITAL Switches? 6. What Percent of Loop Carrier Installations are INTEGRATED DLC's? 7. What Percent of Loop Carrier Cross-connects are Electronic DCS's? 8. Deploy Digital Loop Carrier (loop pair gain) exclusively at ? 9. Do you want FLAT RATE or DISTANCE SENSITIVE parameters ? 9a. If Distance Sensitive, what band increment do you want ? 10. How many Cost Bands in this study ? 11. Should this Study result in Investment, Cost, or All values ? 12. Is this study for Total Incremental or Marginal Costs ? 13. How many circuits (loops) in this Study ? 14. The study classification is (e.g.; RATES PLAN, TEST DATA, NEW SERVICE) Required for the "Footer" of each Report page. </td> <td style="width: 20%; vertical-align: top;"> VALID RESPONSE SET N or A S or P N, W or B 2 or 4 0 → 100 0 → 100 0 → 100 e.g., 12000 0 → 5 LC or A Form R → 999 </td> <td style="width: 10%; vertical-align: top;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>NEW</td></tr> <tr><td>SWITCHED</td></tr> <tr><td>NARBAND</td></tr> <tr><td>2</td></tr> <tr><td>100</td></tr> <tr><td>0</td></tr> <tr><td>18000 Feet</td></tr> <tr><td>FLAT RATE</td></tr> <tr><td>DIST</td></tr> <tr><td>TOT INCR</td></tr> <tr><td>1</td></tr> <tr><td>RATES PLAN</td></tr> </table> </td> </tr> </table>					SELECTED QUESTIONS CONCERNING -- SERVICE SPEC. OFFICE CHAR. RESULTS SPEC.	1. Is this Study for a NEW Installation or an ADDITION ? 2. Is this Study for a SWITCHED or PRIVATE LINE Service ? 3. Is this Study for Narrow, Wide, or Broadband Services 4. Is this Study for 2 Wire or 4 Wire Transmission ? 5. What Percent of the C.O. Switch Installations are DIGITAL Switches? 6. What Percent of Loop Carrier Installations are INTEGRATED DLC's? 7. What Percent of Loop Carrier Cross-connects are Electronic DCS's? 8. Deploy Digital Loop Carrier (loop pair gain) exclusively at ? 9. Do you want FLAT RATE or DISTANCE SENSITIVE parameters ? 9a. If Distance Sensitive, what band increment do you want ? 10. How many Cost Bands in this study ? 11. Should this Study result in Investment, Cost, or All values ? 12. Is this study for Total Incremental or Marginal Costs ? 13. How many circuits (loops) in this Study ? 14. The study classification is (e.g.; RATES PLAN, TEST DATA, NEW SERVICE) Required for the "Footer" of each Report page.	VALID RESPONSE SET N or A S or P N, W or B 2 or 4 0 → 100 0 → 100 0 → 100 e.g., 12000 0 → 5 LC or A Form R → 999	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>NEW</td></tr> <tr><td>SWITCHED</td></tr> <tr><td>NARBAND</td></tr> <tr><td>2</td></tr> <tr><td>100</td></tr> <tr><td>0</td></tr> <tr><td>18000 Feet</td></tr> <tr><td>FLAT RATE</td></tr> <tr><td>DIST</td></tr> <tr><td>TOT INCR</td></tr> <tr><td>1</td></tr> <tr><td>RATES PLAN</td></tr> </table>	NEW	SWITCHED	NARBAND	2	100	0	18000 Feet	FLAT RATE	DIST	TOT INCR	1	RATES PLAN
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NEW																				
SWITCHED																				
NARBAND																				
2																				
100																				
0																				
18000 Feet																				
FLAT RATE																				
DIST																				
TOT INCR																				
1																				
RATES PLAN																				

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INPUT - STUDY SETUP

LCAT Rel. 1.0.4
ISSUED: 3/31/95

1. Specify **N** for New Installations or **A** for Addition to existing installations are being studied.
2. Specify **S** for the Switched Services or **P** for the Private Line (Special) Service category.
3. Specify **N** for Narrowband (DS0), **W** for Wideband (DS1), or **B** for Broadband Services category.
4. Specify as **2** for 2-wire or **4** for 4-wire, the circuit transmission paths used by the service/s/ being studied.
5. Specify Digital Switch Mix as a Percentage of Installations over Analog in the Jurisdiction.
6. & 7. Specify Integrated DLC Mix as a Percentage of the DLC equipment requirements.
Using **6.** for Switched Services or Using **7.** for Special (Private Line) Services.
8. Enter in feet, the loop length beyond which only Digital Loop Carrier Technology will be considered
9. Specify **F** for Flat Rate Loop or **D** for Distance Sensitive Bands, for the Cost Structure of the study
- 9A. Enter **1, 2, 3,** or **4** to specify either 1/4, 1/2, 3/4, or 1 mile, respectively, band increments in a Distance Sensitive Study
10. Specify the quantity of Cost Bands of Loop Lengths will be studied, for upto a maximum of 5 bands.
Enter **0** for Network Averaged (non-Banded) Input or Individual Circuit Flat Rate Cost Studies.
11. Specify **I** for Investment Only results or **C** for resultant Annual and Monthly Recurring Costs or **A** for All values.
12. Specify **T** for Total Incremental or **M** for Marginal (Direct Incremental) Average Weighted Costs Study.
13. Enter the quantity of loop circuits that will be the demand basis of this cost study.
Nominally, entering 1 provides a "UNIT" cost and any other value, a "TOTAL" cost.

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C:\123R24\LCATR099\DESIGN	LOOP COST ANALYSIS TOOL	Belcore
INPUT - LOOP DESIGN Sheet 1 / 1	CIRCUIT DESIGN REQUIREMENTS CHARACTERISTICS FOR	LCAT Rel : 1.0.4 Issued : 07/31/95
COMPANY : CINCINNATI BELL TEL.	INVESTMENT YEAR: 1996	STUDY YR : 1996
CITY / AREA : CINCINNATI	LOOP STUDY YEAR: 1996	TEST CASE : 1
STATE / PROV : OHIO	SERVICE CLASS: BAND 3 - RESIDENCE ISDN	LAST UPDATE : 24-Oct-96 TIME : 13:23

CIRCUIT DESIGN**Study Parameters**

Study Basis: NETWORK STUDY

Service Level: NARBAND

Loop Topology: STAR

**CIRCUIT LAYOUT REQUIREMENTS -
FOR FIBER HUBS & FEEDER EXTENSIONS**

(FIBER HUB TO REMOTE TERMINAL LINK)

FACILITY INTERFACE SITES :

Proportion of Fiber Circuits

WITHOUT Fiber Hubs

FACILITY TECHNOLOGIES:

Of the Hubbed Circuits -

Proportion of links on Fiber Tech.

Proportion of links on CDLC / MAR **FOR SERVICE ACCESS NETWORK**

(REMOTE TERMINAL TO CUSTOMER LINK)

FACILITY INTERFACE SITES :

Proportion of Remote terminals

colocated at Customer Premises

**CIRCUIT DESIGN REQUIREMENTS -
SELECTION & DISTRIBUTION:**Note**FOR FIBER DLC DESIGNS:**

Weighting of Design #1

Weighting of Design #2

Weighting of Design #3

Weighting of Design #4

NA

Weighting of Design #5

NA

Weighting of Design #6

NA

ChkSum

FOR COPPER DLC DESIGNS:

Weighting of Design #1

Weighting of Design #2

ChkSum

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PROBABLE DENOTES THAT THE CIRCUIT DESIGN
SET OF STUDY PARAMETERS.

C:\123R24\LCATR099\DESIGN

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Bellcore

INPUT - LOOP_DESIGN

LCAT Rel:1.0.4

Sheet 1 of 1

Issued:07/31/95

**DIGITAL LOOP
CARRIER
DESIGNS**

Each Loop's circuit layout is broken down into potentially the FEEDER, the DISTRIBUTION, and the DROP segment. The FEEDER segment can have THREE Spans, the PRIMARY and EXTENSION are realtime, but, the SUBFEEDER is a "filler" for spans or distances under PAIR GAIN Deployment and will be employed using engineering rules and network characteristics. The potential Fiber Optic DLC and Copper DLC circuit layouts have been categorized into several generic designs for purposes of narrowing down the complexity of the network contribution. The *DESIGN's* represent unique combinations of layers (COLLOCATION) and the transport media. There is a chart of these *DESIGN's* included in the DATA CATALOG and the METHODOLOGY sections of the User Guide.

COLLOCATIONS

To be defined as the combining of Loop functions at the same location, excluding the need for translation of the transport function (eliminating the OSP and termination equipment). Note that the sum of the probabilities do not have to equal total universe, therefore, the proportions are a function of the total serving universe (total loop network).

**FIBER HUBS &
FEEDER
EXTENSIONS**

These values represent the proportion of each technology used in the layouts which DO NOT have collocated FIBER HUB and REMOTE TERMINAL functions.

WARNING → This function must be in place for "RING" topologies as 100% FIBER, therefore, the *DESIGN* choices are limited for RING to *DESIGN's* 1 and 5. All other *DESIGN's* are to be avoided.

**SERVICE
SPECIFIC**

To avoid circuit layout conflict with certain service levels, the input choices will be limited for BROADBAND service levels to those which currently support DS3 Kterm at both ends. Currently, that is, *DESIGN* 4, 5, & 6.

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CH123R24\LCAT0099\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore
TABLE - SPAN_INV SHEET 1/4		LOOP FACILITY INPUT FIBER CABLE DATA FOR		LCAT Ref: 1.04
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996		Issued: 07/31/95
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996		STUDY YR: 1996
STATE/PROV: OHIO		SERVICE CLASS: BAND 3 - RESIDENCE ISDN		TEST CASE: 1
				LAST UPDATE: 24-Oct-96
				TIME: 13:25

FIBER CABLE INVESTMENT AND CHARACTERISTICS				
		FOR FEEDER SEGMENTS	FOR DISTRIBUTION SEGMENTS	
CABLE TYPE MIX (DISTRIBUTION TO CODE) :				
Proportion of FIBER cable Installations that are	AERIAL	0.8100	0.0000	factors
	BURIED	0.0000	0.0000	factors
	UNDGRD	0.1900	0.0000	factors
 INVESTMENT PER CABLE PAIR FOOT BY CABLE TYPE :				
Update Cable Sheath Prices on the FULL SET Input SHEET ? (Y/N)		N		[Required with INDIVIDUAL Mode]
If not, Update Unit Averages as Follows :				
PRIMARY SEGMENT				
Average Unit Investment for FIBER cable, Installed as	AERIAL	\$ 0.1930		per fiber pair Foot
	BURIED	\$ 0.0000		per fiber pair Foot
	UNDGRD	\$ 0.2229		per fiber pair Foot
to Fiber Hub				
FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT				
Average Unit Investment for FIBER cable, Installed as	AERIAL	\$ 0.1930	\$ 0.0000	per fiber pair Foot
	BURIED	\$ 0.0000	\$ 0.0000	per fiber pair Foot
	UNDGRD	\$ 0.2229	\$ 0.0000	per fiber pair Foot
		(Fiber Hub to Remote Terminal)		per fiber pair Foot
		(Remote Terminal to Service Point)		per fiber pair Foot

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C:\123R24\LCAT099\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore
TABLE - SPAN_INV SHEET 1A / 4		LOOP FACILITY INPUT FIBER CABLE DATA - BY CABLE SHEATH DETAIL FOR		LCAT Ref: 1.0.4 Issued: 07/31/95
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - RESIDENCE ISDN		STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-95 TIME: 13:29

FIBER OPTIC CABLE INVESTMENT REFERENCE TABLE

Cable Sheath Sizes			Unit Investment per Cable Pair Foot, by Cable Type, by Cable Size			
CAPACITY			AERIAL	BURIED	UNDERGROUND	
INDEX						
4	Fiber Cable	2 pr	\$		\$	
6	Fiber Cable	3 pr	\$		\$	
12	Fiber Cable	6 pr	\$		\$	
18	Fiber Cable	9 pr	\$		\$	
24	Fiber Cable	12 pr	\$		\$	
36	Fiber Cable	18 pr	\$		\$	
48	Fiber Cable	24 pr	\$		\$	
60	Fiber Cable	30 pr	\$		\$	
72	Fiber Cable	36 pr	\$		\$	
84	Fiber Cable	42 pr	\$		\$	
96	Fiber Cable	48 pr	\$		\$	
144	Fiber Cable	72 pr	\$		\$	
192	Fiber Cable	96 pr	\$		\$	
216	Fiber Cable	108 pr	\$		\$	

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TABLE - SPAN_INV
SHEET 1 / 4

HELP SCREEN

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LCAT Rel: 1.0.4
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***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES *****

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C:\123R24\LCATR099\FACILITY		LOOP COST ANALYSIS TOOL				Bellcore (R)	
TABLE - SPAN_INV SHEET 2 / 4		LOOP FACILITY INPUT COPPER CABLE DATA FOR				LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996				STUDY YR: 1996	
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996				TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - RESIDENCE ISDN				LAST UPDATE: 24-Oct-96 TIME: 13:26	
COPPER CABLE CHARACTERISTICS AND INVESTMENTS							
Cable Gauge Mix :		GUAGE	FEEDER SEGMENT	DISTRIBUTION SEGMENT	Unit investment per Cable Pair Foot By Cable Type, By Cable Gauge :		
The Proportion of		26 GA.	0.1500	0.1500	Update Cable Sheath Prices [Required with INDIVIDUAL Mode]		
Copper Cable that is		24 GA.	0.8500	0.8500	on the FULL SET Input SHEET ? (Y / N) ☐ N		
		22 GA.	0.0000	0.0000	If not, Update		
Cable Type Mix, By Gauge :					GUAGE	FEEDER SEGMENT	DISTRIBUTION SEGMENT
The Proportion of		26 GA.	AERIAL	0.8100	0.5800	Average Unit	
Copper Cable that is			BURIED	0.0400	0.4200	Investment for	26 GA.
			UNDGRND	0.1500	0.0000	Copper Cable	
		24 GA.	AERIAL	0.8100	0.5800	Installed as	
			BURIED	0.0400	0.4200		26 GA.
			UNDGRND	0.1500	0.0000		
		22 GA.	AERIAL	0.0000	0.0000		24 GA.
			BURIED	0.0000	0.0000		
			UNDGRND	0.0000	0.0000		22 GA.
			BURIED	0.0000	0.0000		
			UNDGRND	0.0000	0.0000		

NOTE : If the DROP WIRE resource investment is average values, it may be entered out through input of the Drop Wire Unit Investment (Sheet 5) and the flagging of the Adjustment either there or on the ADJUST input file worksheet.

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TABLE - SPAN_INV SHEET 2A / 4		LOOP FACILITY INPUT COPPER CABLE DATA - BY CABLE SHEATH DETAIL FOR		LCAT Ver: 1.0.4 Issued: 07/31/95
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996		STUDY YR: 1996
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996		TEST CASE: 1
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - RESIDENCE ISDN		LAST UPDATE: 24-Oct-96 TIME: 13:28

COPPER CABLE INVESTMENT REFERENCE TABLE

Unit Investment Per Cable Pair Foot, By Cable Gauge, By Cable Type, By Cable Size

Cable Sheath Sizes	Capacity	Gauge	INDEX	26 GA.			24 GA.			22 GA.		
				AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40 Copper Cable	20 pr		\$									
50 Copper Cable	25 pr		\$									
60 Copper Cable	40 pr		\$									
100 Copper Cable	50 pr		\$									
140 Copper Cable	70 pr		\$									
200 Copper Cable	100 pr		\$									
400 Copper Cable	200 pr		\$									
600 Copper Cable	300 pr		\$									
800 Copper Cable	400 pr		\$									
1200 Copper Cable	600 pr		\$									
1800 Copper Cable	900 pr		\$									
2400 Copper Cable	1200 pr		\$									
3000 Copper Cable	1500 pr		\$									
3600 Copper Cable	1800 pr		\$									
4200 Copper Cable	2100 pr		\$									
4800 Copper Cable	2400 pr		\$									
5400 Copper Cable	2700 pr		\$									
6000 Copper Cable	3000 pr		\$									
7200 Copper Cable	3600 pr		\$									
8400 Copper Cable	4200 pr		\$									

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TABLE - SPAN_INV
SHEET 2 / 4

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SPAN INV - WORKSHEET		COPPER CABLE DISTRIBUTIONS WELDING WORKSHEET A				LCAT Ver: 1.0.4																															
Sheet 1 / 3		FOR				Issue Date: 07/31/95																															
COMPANY: CINCINNATI BELL TEL		FACILITY TYPE: COPPER CABLE				STUDY YR: 1996																															
CITY / AREA: CINCINNATI		DESIGN TYPE: DISTRIBUTION SEGMENT				TEST CASE: 1996																															
STATE/PROV: OHIO		SERVICE CLASS: BAND 3 - RESIDENCE ISDN				DATE: 1																															
						LAST UPDATE: 24-Oct-96																															
						TIME: 13:25																															
MELDED CABLE INVESTMENT PER PAIR FOOT																																					
DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...dst)	PER FOOT INVESTMENT (pfi..ds)	CABLE GAUGE MIX (copper...dst)	ADJUSTED CABLE TYPE	ADJUSTED PFI																																
CHARACTERISTICS FOR :																																					
AERIAL @ 26 GA.	[A] 0.580000	[B] \$ 0.041800	[C] 0.1500	[D=A*C] 0.087000	[E=B*C] \$ 0.006270																																
BURIED @ 26 GA.	0.420000	\$ 0.068800	0.1500	0.063000	\$ 0.010320																																
UNDGRND @ 26 GA.	0.000000	\$ 0.000000	0.1500	0.000000	\$ 0.000000																																
AERIAL @ 24 GA.	0.580000	\$ 0.041800	0.8500	0.483000	\$ 0.035530																																
BURIED @ 24 GA.	0.420000	\$ 0.068800	0.8500	0.357000	\$ 0.058480																																
UNDGRND @ 24 GA.	0.000000	\$ 0.000000	0.8500	0.000000	\$ 0.000000																																
AERIAL @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000																																
BURIED @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000																																
UNDGRND @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000																																
Check = 1.00																																					
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FOOTNOTES																																					

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C:\123R24\LCATR099\FACILITY.WK1		LOOP COST ANALYSIS TOOL				Bellcore [®]																															
SPAN INV - WORKSHEET Sheet 2 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET A FOR				LCAT R&T: 1.0.4 Issue Date: 07/31/95																															
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		FACILITY TYPE: COPPER CABLE DESIGN TYPE: SUBFEEDER SEGMENT				STUDY YR: 1996 TEST CASE: 1996																															
		SERVICE CLASS: BAND 3 - RESIDENCE ISDN				DATE: 1 LAST UPDATE: 24-Oct-96 TIME: 13:26																															
MELDED CABLE INVESTMENT PER PAIR FOOT																																					
DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...tdir)	PER FOOT INVESTMENT (pfi..td)	CABLE GAUGE MIX (copper...tdir)	ADJUSTED CABLE TYPE	ADJUSTED PFI																																
CHARACTERISTICS FOR:	[A]	[B]	[C]	[D=A*C]	[E=B*C]																																
AERIAL @ 26 GA.	0.810000	\$ 0.011300	0.1500	0.121500	\$ 0.001895																																
BURIED @ 26 GA.	0.040000	\$ 0.018900	0.1500	0.006000	\$ 0.002835																																
UNDGRND @ 26 GA.	0.150000	\$ 0.012000	0.1500	0.022500	\$ 0.001800																																
AERIAL @ 24 GA.	0.810000	\$ 0.011300	0.8500	0.688500	\$ 0.009605																																
BURIED @ 24 GA.	0.040000	\$ 0.018900	0.8500	0.034000	\$ 0.016065																																
UNDGRND @ 24 GA.	0.150000	\$ 0.012000	0.8500	0.127500	\$ 0.010200																																
AERIAL @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000																																
BURIED @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000																																
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C:\123R24\LCATR099\FACILITY		LOOP COST ANALYSIS TOOL		Belcore (R)
TABLE - SPAN_INV SHEET 3 / 4		LOOP FACILITY INPUT COPPER PAIR GAIN CABLE DATA		LCAT Rel: 1.0.4 Issued: 07/31/95
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996	STUDY YR: 1996	TEST CASE: 1
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996	LAST UPDATE: 24-Oct-96	TIME: 13:25
STATE/PROV: OHIO		SERVICE CLASS: BAND 3 - RESIDENCE ISDN		
COPPER CABLE CHARACTERISTICS FOR CDLC SYSTEMS				
FOR DLC SYSTEMS ON COPPER LOOPS				
Cable Gauge:	Please Enter the NUMBER for 22 GA., 24 GA., or 26 GA.:			24
Pair Gain Factor:	(When Investment Utilities or Band Width Mix are NOT Used)			
	The Average Number Of Voice Grade Circuit Equivalents Per System:			96
	The Average Number Of Transmission Pairs Plus Protection Per System:			10
	The Average Number Of Support (Power, Alarm, Etc) Pairs Per System:			2
	Ratio Of Required Pairs To Derived Pairs [Pair Gain Factor]:			9.1250
NOTE: ① The value represents the extent to which copper pairs are gained. For example, A 30 Channel System uses 4 Transmit Pairs, 4 Receive Pairs, 2 Protection Pairs and 2 Support Pairs (Test and Order Wire). Then the Derived Pairs would be the Sum of the Pairs divided by the Working Channels Or $(10 + 2) / 96 = 0.125$. When applied to segment length it becomes the Effective Length per Pair.				

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C:\123R24\LCATR099\FACILITY
TABLE - SPAN_INV
SHEET 3 / 4

HELP SCREEN

Bellcore (R)
LCAT Rel: 07/31/95
Issued: 07/31/95

pggauge	In CSA rules, a single gauge is preferred for CDLC
vgcheqv	Each CDLC has a voice grade equivalent, usually referred to as a ____ Channel System. Domestic systems are basic 96 Channel, whereas, International are 120 Channel
xmsnpr	CDLC uses a Transmit/Receive Pair for each direction (unidirectional), therefore, the basic structure is four sets of two pairs plus one protection set (10 pairs)
suptpr	CDLC is customarily supported by a power pair and an alarm pair (2 pair)
pgfactor	Where : pgfactor = (# of xmsnpr + # of suptpr) / vgcheqv

***** THE INPUT DATA NAMES IN RED CROSS - REFERENCE TO THEIR DATA CATALOG NAMES *****

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CA123R24\LCATR099\FACILITY.WK1		LOOP COST ANALYSIS TOOL		Belcore®
SPAN INV - WORKSHEET Sheet 3 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET B		LCAT Ver: 1.0.4 Issue Date: 07/31/95
COMPANY: CINCINNATI BELL TEL. CITY / AREA: OHIO STATE / PROV: CINCINNATI		FOR FACILITY TYPE: COPPER CABLE for DLC DESIGN TYPE: FEEDER SEGMENT		STUDY YR: 1996 TEST CASE: 1996 DATE: 1 LAST UPDATE: 24-Oct-96 TIME: 13:25
		SERVICE CLASS: BAND 3 - RESIDENCE ISDN		
INVESTMENT DEVELOPMENT FOR:		MELDED CABLE INVESTMENT PER PAIR FOOT LINE REPEATER EQUIPMENT		
DESCRIPTION	REPEATER SPACING	UNIT REPEATER INVESTMENT	REPEATER INVEST. PER FOOT	
	(A)	(B)	(C=B/A)	
LINE REPEATER AT 26 GA.	3500	\$ 0	\$ 0.000000	
LINE REPEATER AT 24 GA.	4500	\$ 0	\$ 0.000000	
LINE REPEATER AT 22 GA.	5500	\$ 0	\$ 0.000000	
TABLE 4 DEVELOPMENT FOR:		COPPER CABLE UNIT INVESTMENT		
ADJUSTED PAIR / FOOT INVESTMENT	PAIR / FOOT INVESTMENT BY CODE BY GAUGE 2 * (PF1cgs) - [D]	REPEATER BY GAUGE (RPTR csg) [E=C]	WORKING CHANNEL INVESTMENT / FOOT (ADLCFF1cgs) [F=D+E]	FOR DLC Gauge : 24.00 - TABLE 4 - WORKING CHANNEL INVESTMENT / FOOT (ADLCFF1c) [G=D+E]
DESCRIPTION				
AERIAL @ 26 GA.	\$ 0.022600	\$ 0.000000	\$ 0.022600	\$ 0.022600
BURIED @ 26 GA.	\$ 0.037800	\$ 0.000000	\$ 0.037800	\$ 0.037800
UNDGRND @ 26 GA.	\$ 0.024000	\$ 0.000000	\$ 0.024000	\$ 0.024000
AERIAL @ 24 GA.	\$ 0.022600	\$ 0.000000	\$ 0.022600	\$ 0.022600
BURIED @ 24 GA.	\$ 0.037800	\$ 0.000000	\$ 0.037800	\$ 0.037800
UNDGRND @ 24 GA.	\$ 0.024000	\$ 0.000000	\$ 0.024000	\$ 0.024000
AERIAL @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000
BURIED @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000
UNDGRND @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000
NOTES: ① The Facility Table Investments are for each Cable Pair Foot, DLC Systems are 4 wire.				

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C:\123R24\LCAT099\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore (R)							
TABLE - SPAN_INV SHEET 4 / 4 COM: COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE/PROV: OHIO		LOOP FACILITY INPUT SERVICE ACCESS SEGMENT FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - RESIDENCE ISDN		LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 13:26							
SERVICE ACCESS CHARACTERISTICS AND INVESTMENTS											
AVERAGE UNIT MIX :		AVERAGE UNIT INVESTMENT :									
The Average Number of Terminals in the Service Access Segment of a Loop -											
Proportion of Loops that use.....	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Aerial</td> <td style="text-align: center; padding: 2px;">0.00</td> </tr> <tr> <td style="padding: 2px;">Buried</td> <td style="text-align: center; padding: 2px;">0.00</td> </tr> </table>	Aerial	0.00	Buried	0.00	Per Unit Installation.....	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Aerial Termination</td> <td style="text-align: center; padding: 2px;">0</td> </tr> <tr> <td style="padding: 2px;">Buried Termination</td> <td style="text-align: center; padding: 2px;">0</td> </tr> </table>	Aerial Termination	0	Buried Termination	0
Aerial	0.00										
Buried	0.00										
Aerial Termination	0										
Buried Termination	0										
The Average Drop Wire & Building Entrance Cable Installation -											
Proportion of Loops that use..	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Aerial Wire Drops</td> <td style="text-align: center; padding: 2px;">0.0000</td> </tr> <tr> <td style="padding: 2px;">Buried Wire Drops</td> <td style="text-align: center; padding: 2px;">0.0000</td> </tr> <tr> <td style="padding: 2px;">Bldg Entrance Cable</td> <td style="text-align: center; padding: 2px;">1.0000</td> </tr> <tr> <td style="padding: 2px;">Aerial Coax/Wire Drops</td> <td style="text-align: center; padding: 2px;">0.0000</td> </tr> </table>	Aerial Wire Drops	0.0000	Buried Wire Drops	0.0000	Bldg Entrance Cable	1.0000	Aerial Coax/Wire Drops	0.0000	Adjust Cable Pair Foot Invest. for DW Investment ? (Y/N)	N
Aerial Wire Drops	0.0000										
Buried Wire Drops	0.0000										
Bldg Entrance Cable	1.0000										
Aerial Coax/Wire Drops	0.0000										
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Aerial Wire Drops	\$ 0.00										
Buried Wire Drops	\$ 0.00										
Bldg Entrance Cable	\$ 75.00										
Aerial Coax/Wire Drops	\$ 0.00										
The Average Intra-building Cable Installation -											
Proportion of Installations with Intra-building Cable	0.0000	Per Instn for a Intra-building Network Cable Pair	\$ 0.00								

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H\LCATR099\FACILITY
SPAN_INV
'4

HELP SCREEN

Bellcore®
LCAT Rel: 1.0.4
Issued: 07/31/95

terna These terminals may include the Serving Area Interface Cross Box, Drop Wire Block, and/or the Network
termb interface Block summary per circuit pair installation investment.

adropinv These facility investments may also include Drop Wire Block and/or Network Interface summary per circuit
bdropinv pair installation investment.
bec
coaxinv

ibc This facility investment should include ALL the internal cross-connects and terminations for this type of
installation as a circuit pair installation investment.

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C:\123R24\LCATR099\FACTORS		LOOP COST ANALYSIS TOOL		Belcore
TABLE - FACTORS SHEET 1 / 1		INVESTMENT RELATED FACTOR TABLES FOR ANNUALIZATION FACTORS		LCAT Rel: 1.0.4 Issued: 3/31/95
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996	STUDY YEAR: 1996	STUDY YR: 1996
CITY / AREA: CINCINNATI		SERVICE CLASS: BAND 3 - RESIDENCE ISDN		TEST CASE: 1
STATE / PROV: OHIO				LAST UPDATE: 17-Jan-97
				TIME: 15:22

plant list	PRICE INDEX	ANNUAL COST
LAND	1.0000	0.2322
BUILDING	1.0000	0.2937
BLDG ENTRANCE CABLE	1.0000	0.3922
INTRABLDG CABLE	1.0000	0.3922
AERIAL CABLE (COPPER)	1.0000	0.4033
BURIED CABLE (COPPER)	1.0000	0.3467
UNDERGROUND (CU) CA.	1.0000	0.3663
CO EQPT - LOW CAP TERM	1.0000	0.3881
CO EQPT - LOW CAP CHAN	1.0000	0.3881
CO EQPT - HI CAP TERM	1.0000	0.3881
CO EQPT - HI CAP CHAN	1.0000	0.3881
CO EQPT - ANALOG SW	1.0000	0.0000
CO EQPT - DIGITAL SW	1.0000	0.3458
AERIAL CABLE (FIBER)	1.0000	0.2963
BURIED CABLE (FIBER)	1.0000	0.4724
UNDERGROUND (FO) CA.	1.0000	0.2589
CONNECTORS	1.0000	0.3881
MISC. COM EQP & PWR	1.0000	0.3881
POLE LINE	1.0000	0.3807
CONDUIT	1.0000	0.2521

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C:\123R24\LCATR099\INVEST		LOOP COST ANALYSIS TOOL				Bellcore (R)	
TABLE - EQUIP_INV Sheet 1 of 1		DATA REFERENCE TABLE EQUIPMENT & OTHER INVESTMENTS FOR				LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL		INVESTMENT YEAR: 1996				STUDY YR: 1996	
CITY / AREA: CINCINNATI		SERVICE LEVEL: NARBAND				TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - RESIDENCE ISDN				LAST UPDATE: 24-Oct-96 13:30	
EQUIPMENT INVESTMENT (including Engineer, Furnish, & Install Costs)							
		CENTRAL OFFICE			REMOTE LOCATION		
		LINE	CHANNEL	TERMINAL	CHANNEL	TERMINAL	
AIR DRYERS INVESTMENT:							
For an AERIAL Installed Cable Pair				\$ 0.00			
For a BURIED Installed Cable Pair				\$ 0.00			
For an UNDERGROUND Installed Cable Pair				\$ 0.00			
CENTRAL OFFICE TERMINATION INVESTMENT:							
For each cable pair associated with twisted pair copper cable				\$ 0.00			
For each per cable pair associated with digital loop carrier technology				\$ 0.00			
COPPER LOOP CARRIER UNIT CIRCUIT INVESTMENT by SERVICE LEVEL:							
For each line repeater for one copper digroup (not svc lev)		\$ 0.00					
For an Office Repeater Bay for a T1 Line		\$ 0.00					
For a Universal DLC Equipment Arrangement		\$ 0.00	\$ 361.90	\$ 39.17	\$ 348.82	\$ 141.70	
For an Integrated DLC Equipment Arrangement		\$ 0.00	\$ 0.00	\$ 0.00	\$ 348.82	\$ 141.70	
FIBER OPTIC MULTIPLEXERS UNIT CIRCUIT INVESTMENT by SERVICE LEVEL:							
1. For a Hub with nonFiber Extensions or nonHub Arrangement		\$ 49.18	\$ 3.85	\$ 53.79	\$ 53.79	\$ 2.01	
2. For a Hub with Fiber Extensions or a Fiber Ended Arrangement		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	
3. For a Fiber HUB and Fiber Remote Terminal Arrangement				\$ 0.00	\$ 0.00	\$ 0.00	
4. For Fiber Ring Hub Arrangements (Extensions)				\$ 0.00	\$ 0.00	\$ 0.00	
CEV HOUSING per CIRCUIT by SERVICE LEVEL:							
For CEV's used as fiber hubs for FO Multiplexer equipment						\$ 0.00	
For CEV's used as remote terminals for CDLC equipment						\$ 0.00	
(Unit Investment denotes average weighted unit E.F.I Investment at DS0, DS1, or DS3 service eqon)							

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TABLE - EQUIP_INV

HELP INFORMATION

Bellcore^(TM)

LCAT Rel: 1.0.4

Issued: 07/31/95

LCAT Commands Description

This Command will allow the User -

EDIT To Enter Values with DIRECT Input on a cell by cell basis.

CLEAR To Erase the Display's Current Data Values, then Perform DIRECT Input.

Line Items Description

This Equipment Item Represents -

Ofc Rept Bay A Wideband Special Service Circuits Requirement, included in other DLC COE LINE.

Integrated DLC The DLC Class for Source Bandwidth from Digital Line Cards or DSX Term for DS1.

Universal DLC The DLC Class for Source Bandwidth from Analog Subs Line Cards or Voice Grade Term.

See Circuit Designs :

COE Field Item 1 FITL/CDLC Hub Extension or FITL non-Hubbing Arrangements, CO End Equip. 2,3,4 & 6

REM Field Item 1 FITL/CDLC Hub Extension or FITL non-Hubbing Arrangements, REM End Equip. 2,3,4 & 6

COE Field Item 2 FITL Hubbed Arrangements, CO to HUB Span Equip, CO End. 1 & 5

REM Field Item 2 FITL Hubbed Arrangements, CO to HUB Span Equip, Remote Site. 1 & 5

REM Field Item 3 FITL Hubbed Arrangements, HUB to RT Span Equip, Remote Sites. 1 & 5

REM Field Item 4 FITL Hubbed Arrangements, RING Span Equip, HUB Sites. 1,2,5 & 6

NOTE: THE DATA VALUES FOR THESE ITEMS SHOULD ALWAYS REPRESENT
THE CIRCUIT EQUIVALENTS FOR THE BANDWIDTH DELIVERY OF THE STUDIED SERVICE.

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C:\123R24\LCATR099 LOADING		LOOP COST ANALYSIS TOOL		Bellcore (R)
TABLE - ADDNL_INY Sheet 1 of 2 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE: OHIO		INVESTMENT RELATED FACTOR TABLES ADJUSTMENT AND LOADING FACTORS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - RESIDENCE ISC		LCAT Ref: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 13:32
PLANT UTILIZATION FACTORS:				
Land	1.0000	ALL Non-Traffic Sensitive Equipment		1.0000
Building	1.0000			
ALL Copper Cables, or		ALL Digital Loop Carrier Equip., or		
Copper Feeder Cable	0.6000	CO DLC Channel Unit	0.7000	
Copper Distribution Cable	0.3500	REM DLC Channel Unit	0.7000	
Copper Entrance Cable	1.0000	CO DLC Multiplex System	0.7000	
Copper Building Cable	0.3500	REM DLC Multiplex System	0.7000	
Copper Building Terminal	0.3500	CO Digital Signal Crossconnect Bay	0.7000	
		REM Digital Signal Crossconnect Bay	0.7000	
ALL Fiber Cables, or		ALL Fiber Optic Multiplex Equip., or		
Fiber Feeder Cable	0.3300	CO Fiber Optic Channel Unit	1.0000	
Fiber Distribution Cable		REM Fiber Optic Channel Unit	1.0000	
Fiber Entrance Cable		CO Fiber Optic Multiplex System	1.0000	
Fiber Building Cable		REM Fiber Optic Multiplex System	1.0000	
Fiber Building Terminal		CO Lightguide Terminating Equipment	1.0000	
		REM Lightguide Terminating Equipment	1.0000	
Poles	1.0000	Remote Housing: CEV		
Conduit	1.0000	PC Hut		
		Comm. Bldg.		
		1.0000		
		1.0000		
		1.0000		

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TABLE - ADDNL_INV
Sheet 1 of 2

HELP SCREEN

Belcore (R)

LCAT Rel : 1.0.4
Issued : 3/31/95

NOTE :

- ① THIS VALUE REPRESENTS GLOBAL (CATEGORY 1) INPUT FOR THESE ITEMS.
AN ENTRY SETS CATEGORY 2 VALUES TO THE CATEGORY 1 VALUE BY THE SYSTEM.
- ② THE VALUES IN THIS TABLE REPRESENT DETAIL FACTORS (CATEGORY 2 VALUES).
THESE ITEMS ARE APPLIED IN THE COST EQUATIONS FOR THE COMPONENT THEY IDENTIFY.
ENTRIES NEGATE CATEGORY 1 VALUES BY THE SYSTEM.
- ③ THE DESIGNATION "CO" DENOTES CENTRAL OFFICE LOCATED.
THE DESIGNATION "REM" DENOTES REMOTE SITE LOCATED.

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C:\123R24\LCATR099\LOADING		LOOP COST ANALYSIS TOOL		Bellcore (R)
TABLE - ADDNL_INV Sheet 2 of 2 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE: OHIO		INVESTMENT RELATED FACTOR TABLES ADJUSTMENT AND LOADING FACTORS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - RESIDENCE ISDN		LCAT Rel: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 13:32
SEGMENT DISTRIBUTION FEEDER ② use DEFAULT		DROP WIRE (DW) INVESTMENT ADJUSTMENT: The Cable PFI is being Adjusted for DW ? NO Aerial Cable Buried Cable Underground Cable use DEFAULT ① ② for: CENT. OFC. REMOTE SITE		
POLE LOADINGS: Copper Cable Pole Investment Factor 0.2530 0.2530 Copper Cable Pole Unit Investment Fiber Cable Pole Investment Factor 0.1965 0.1965 Fiber Cable Pole Unit Investment		LAND LOADING FACTORS: Other or <u>ALL</u> ① 0.0056 0.0056 Digital Loop Carrier 0.0056 0.0056 Fiber Optic Mux 0.0056 0.0056		
CONDUIT LOADINGS: Copper Cable Conduit Investment Factor 0.5165 0.5165 Copper Cable Conduit Unit Investment Fiber Cable Conduit Investment Factor 0.5232 0.5232 Fiber Cable Conduit Unit Investment		BUILDING LOADING FACTORS: Other or <u>ALL</u> ① 0.1316 0.1316 Digital Loop Carrier 0.1316 0.1316 Fiber Optic Mux 0.1316 0.1316		
		MISC. EQUIPMENT & POWER LOADING FACTORS: Other or <u>ALL</u> ① 0.1127 0.1127 Digital Loop Carrier 0.1127 0.1127 Fiber Optic Mux 0.1127 0.1127		

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TABLE - ADDNL_INV

Sheet 2 of 2

HELP SCREEN

Bellcore[®]

LCAT Rel : 1.0.4

Issued : 3/31/95

Copper Cable Pole Investment Factor	cpiff	__dst	__fdr	Based on aerial copper cable investment relationship to pole
Copper Cable Pole Unit Investment	cpifi	__dst	__fdr	Per unit length of aerial copper cable effective pair feet placed.
Fiber Cable Pole Investment Factor	fpiff	__dst	__fdr	Based on aerial fiber cable investment relationship to pole
Fiber Cable Pole Unit Investment	fpifi	__dst	__fdr	Per unit length of aerial fiber cable effective pair feet placed.
Copper Cable Conduit Investment Factor	cucff	__dst	__fdr	Based on underground copper cable investment relationship to conduit investment
Copper Cable Conduit Unit Investment	cucfi	__dst	__fdr	Per unit length of underground copper cable effective pair feet placed.
Fiber Cable Conduit Investment Factor	fuclf	__dst	__fdr	Based on underground fiber cable investment relationship to conduit investment
Fiber Cable Conduit Unit Investment	fuofi	__dst	__fdr	Per unit length of underground fiber cable effective pair feet placed.

NOTES

- ① THIS VALUE REPRESENTS GLOBAL (CATEGORY 1) INPUT FOR THESE ITEMS.
AN ENTRY SETS CATEGORY 2 VALUES TO THE CATEGORY 1 VALUE BY THE SYSTEM.

- ② THE VALUES IN THIS TABLE REPRESENT DETAIL FACTORS (CATEGORY 2 VALUES).
THESE ITEMS ARE APPLIED IN THE COST EQUATIONS FOR THE COMPONENTS THEY IDENTIFY.
ENTRIES NEGATE CATEGORY 1 VALUES BY THE SYSTEM.

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C:\123R24\LCATR099\SPAN		LOOP COST ANALYSIS TOOL		Bellcore (R)
PLANT CHAR: - WORKSHEET SA		LCAT Ver: 1.0.4		
Sheet 1 / 1		Issued: 07/31/95		
COMPANY: CINCINNATI BELL TEL.		STUDY YR: 1995		
CITY/AREA: CINCINNATI		TEST CASE: 1		
STATE/PROV: OHIO		LAST UPDATE: 24-Oct-95		
WORKSHEET SA		TIME: 13:35		

Sub Feeder Allocation Table

Sub Feeder Allocation Table										
cur lplgth	28127									
dlcdepl = 18000	NO COLOCATED	dstopo = BUS	COLOCATED RT AND CP, where							
[B]distspa 4826	dstopo = STAF	dstopo = BUS	COLOCATED fdstopo = BUS							
nom_rangecur	distsubfeed	prfeeder	subfeed	prfeeder	subfeed	prfeeder	subfeed	prfeeder	subfeed	prfeeder
[C] [D=C-I]	[E] [F=D-I]	[G] [H=D-G]	[I] [J=C-I]	[K] [L=C-K]	[M=A-C]					
0	0	0	0	0	0	0	0	0	0	28127
500	0	0	0	0	0	500	0	500	0	27627
1000	0	0	0	0	0	1000	0	1000	0	27127
2000	0	0	0	0	0	2000	0	2000	0	26127
3000	0	0	0	0	0	3000	0	3000	0	25127
4000	0	0	0	0	0	4000	0	4000	0	24127
5000	174	174	0	174	0	5000	0	5000	0	23127
6000	1174	1174	0	1174	0	6000	0	6000	0	22127
7000	2174	2174	0	2174	0	7000	0	7000	0	21127
8000	3174	3174	0	3174	0	8000	0	8000	0	20127
9000	4174	4174	0	4174	0	9000	0	9000	0	19127
10000	5174	5174	0	5174	0	10000	0	10000	0	18127
11000	6174	6174	0	6174	0	11000	0	11000	0	17127
12000	7174	7174	0	7174	0	12000	0	12000	0	16127
13000	8174	8174	0	8174	0	13000	0	13000	0	15127
14000	9174	9174	0	9174	0	14000	0	14000	0	14127
15000	10174	10174	0	10174	0	15000	0	15000	0	13127
16000	11174	11174	0	11174	0	16000	0	16000	0	12127
17000	12174	12174	0	12174	0	17000	0	17000	0	11127
18000	13174	6587	6587	0	13174	9000	9000	0	18000	10127
19000	14174	7087	7087	0	14174	9500	9500	0	19000	9127
20000	15174	7587	7587	0	15174	10000	10000	0	20000	8127
80000	75174	13174	62000	1000	74174	13174	66826	1000	79000	61873

RULES

ASSUMPTION - Table LOOKUP will select from the lower NOM_RANGE of a CUR_LPLGTH intermediate value

If CUR_LPLGTH is

= < DISTSPAN, then CUR_SEGLGTH^{ACT} Equals CUR_LPLGTH - NOM_RANGE difference

> DISTSPAN and < DLCDEPL, then CUR_SEGLGTH^{STN} Equals CUR_LPLGTH - NOM_RANGE difference

= > DLCDEPL, then CUR_SEGLGTH^{PRF} Equals CUR_LPLGTH - NOM_RANGE difference

CUR_SEGLGTH - Calculation Assumptions

The DISTSPAN can not exceed the DLCDEPL value input on CRITERIA.

Therefore, set the DLCDEPL at the DISTSPAN to get an ALL FIBER Network.

C:\123R24\LCATR099\SPAN		LOOP COST ANALYSIS TOOL		Bellicore (R)
INPUT - PLANT_CHAR. Sheet 1 / 5		LOOP FACILITY INPUT		LCAT Rel: 1.0.4
		LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS		Issued: 07/31/95
COMPANY: CINCINNATI BELL TEL		INVESTMENT YEAR: 1995		STUDY YR: 1995
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1995		TEST CASE: 1
STATE / PROV: OHIO		SERVICE CLASS: BAND 3 - RESIDENCE / SDN		LAST UPDATE: 24-Oct-95
				TIME: 13:35
FLAT RATE BASIS DATA WITHOUT COST BANDS FOR A NETWORK CIRCUIT CASE STUDY				
LOOP TOPOLOGY		ACTION SEGMENT		
Loop FEEDER Network Configuration Is (S)tar Or (R)ing		PRIMARY STAR		
Average Number Of Hubs In Each Ring		PRIMARY NA		
Loop DISTRIBUTION Network Configuration Is (S)tar or (B)us		DISTRIBUTION STAR		
SPAN LENGTHS				
①	Average Distance From the Central Office to the Service Access Point	TOTAL LOOP 28127.0		
②	Average Distance From the Serving Area Interface to the Service Access Point	DISTRIBUTION 4826.0		
③	Average Distance From the Remote Terminal to the Serving Area Interface	SUB-PRIMARY 300.0		
④	Average Distance From the Central Office to the Fiber Hub or S.A.I.	PRIMARY 23001.0		
⑤	Average Distance From the Fiber Hub to the Remote Terminal	PRIMARY-EXTENSION		
LOOP LENGTH AT EACH COST BAND		DISTRIBUTION OF COST BANDS IN THE NETWORK		
BAND 1		BAND 1		
BAND 2		BAND 2		
BAND 3		BAND 3		
BAND 4		BAND 4		
BAND 5		BAND 5		
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LAST 28127.0		LAST 1.0000 1.0000 Hint		

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CA123R24\LCATR099\SPAN		LOOP COST ANALYSIS TOOL		Bellcore	
INPUT - PLANT_CHAR.		LOOP FACILITY INPUT		LCAT Rel : 1.0.4	
Sheet 1 / 1		LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS		Issued : 07/31/95	
COMPANY: CINCINNATI BELL TEL		FOR		STUDY YR : 1996	
CITY / AREA: CINCINNATI		INVESTMENT YEAR : 1996		TEST CASE : 1	
STATE / PROV: OHIO		LOOP STUDY YEAR : 1996		LAST UPDATE : 24-Oct-96	
		SERVICE CLASS : BAND 3 - RESIDENCE ISDN		TIME : 13:36	
<u>FLAT RATE BASIS DATA WITHOUT COST BANDS</u> <u>FOR A NETWORK CIRCUIT CASE STUDY</u>					
<u>LOOP LENGTH</u> 28127 FEET					
DROP DISTRIBUTION FEEDER					
4826 FEET 300.0 FEET 23007 FEET					
ON1 SUB-PRIMARY FIBER DISTRIBUTION EXTENSION PRIMARY PRIMARY					
NETWORK INTERFACE SERVICE ACCESS POINT SERVING AREA INTERFACE REMOTE TERMINAL (LOOP MULTIPLEX INTERFACE) REMOTE NODE (LOOP TRANSFER) FIBER HUB END OFFICE					

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C:\123R24\LCATR099\SPAN		LOOP COST ANALYSIS TOOL		Belcore®	
INPUT - FANT_CHAR Sheet 1 of 2		LOOP FACILITY INPUT <u>HELP SCREEN</u>		LCAT Rel : 1.0.4 Issued : 07/31/95	
AVERAGE NETWORK STUDY - This mode of LCAT is used where the cost study may be broad in scope and lack sufficient detail data to use the Loop OSP cost calculators on Sheets 2, 3, and 4. Instead, it relies on table data from the FACILITY file, representing jurisdictional average value mixes or proportions. Input for these values is placed on Sheet 1.					
INDIVIDUAL CIRCUIT STUDY - This mode of LCAT is used to cost study circuit specifics on an Individual Circuit Basis for Request For Proposals, Special Constructions, and CENTREX-like Services. Data input is usually actual per the circuit configuration's span by span requirements as detailed by Product Management. This mode will require the use of the Loop OSP calculators on Sheets 2, 3, and 4.					
DATA SAMPLE NETWORK STUDY - This mode of LCAT functions well with the Loop OSP cost calculators on Sheets 2, 3, and 4. The data samples are inputted on the sheets cumulatively and cost calculated directly. Then the weightings formulae are applied to create an average weighted Loop cost per pair foot.					
BANDWIDTH AVERAGING - This feature of LCAT permits study level weighting of fiber multiplexer bandwidth. The range of multiplexers goes from 1.5 Mbps through 1.7 Gbps and designating the unit of usage develops a more precise unit investment to the feeder calculations.					
***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES ***** ***** PLEASE REFER TO THE USER MANUAL FOR PRELIMINARY INFORMATION ***** CONFIDENTIAL NOTICE MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC PROVIDED TO PUCO PRESS 'ENTER' TO RETURN TO THE MAIN MENU					

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C:\123R24\LCATR099 SPAN

LOOP COST ANALYSIS TOOL

Belcore®

INPUT - PLANT_COST

Sheet 2 of 2

HELP SCREEN

LCAT Ver: 1.0.4
Issued: 07/31/95

COST DETAILS

When the Loop Study is specified as DISTANCE SENSITIVE, the data required is inputted as part of STUDY SETUP input and the ROUTE TO AIR RATIO [B] on WORKSHEET F and the resultant Rate Band delimiters are copied into the RATE BANDS field on SCREEN 1 by the System. The SPAN LENGTHS data is input by the User.

When the Loop Study is specified as FLAT RATE, then ALL the data required is input on SCREEN 1 in the COST BANDS field and/or SPAN LENGTHS field by the User.

LOOP TOPOLOGY

When the Loop Topology (circuit layout format) for the Feeder Layer is specified as STAR, the Primary Feeder (C.O. to HUB) is variable and the Feeder Extension (HUB to R.T.) is held as an average length link. When the Loop Topology is specified as RING, the Primary Feeder is held as an average length link and the Feeder Extension is variable. This input Sheet is required to each possibility. The SPAN LENGTHS input cells are rearranged to support this topology specified and only request the necessary data that is required.

***** THE INPUT DATA NAMES IN RED CROSS - REFERENCE TO THEIR DATA CATALOG NAMES *****
***** PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION *****

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C:\123R24\LCATR099\SPAN		LOOP COST ANALYSIS TOOL				Bellcore (R)	
INPUT - PLANT_CHAR. Sheet 2a / 5		FIBER OPTIC CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER				LCAT Ref: 1.0.4 Issued: 07/31/95	
COMPANY: 0 CITY / AREA: 0 STATE / PROV: 0		FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - RESIDENCE ISDN				STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 13:36	
NETWORK CIRCUIT LAYOUT STUDIES				WORKSHEET A			
	CAPACITY		AERIAL FIBER	BURIED FIBER	UNDERGROUND FIBER		
	[C]	idx	CUMULATIVE FEEDER LENGTH [D _A]	EFFECTIVE LENGTH BY PAIR FOOT [E _A]	CUMULATIVE FEEDER LENGTH [D _B]	EFFECTIVE LENGTH BY PAIR FOOT [E _B]	CUMULATIVE FEEDER LENGTH [D _U]
4 FIBER CABLE	2 pr			0.0		0.0	
6 FIBER CABLE	3 pr			0.0		0.0	
12 FIBER CABLE	6 pr			0.0		0.0	
18 FIBER CABLE	9 pr			0.0		0.0	
24 FIBER CABLE	12 pr			0.0		0.0	
36 FIBER CABLE	18 pr			0.0		0.0	
48 FIBER CABLE	24 pr			0.0		0.0	
60 FIBER CABLE	30 pr			0.0		0.0	
72 FIBER CABLE	36 pr			0.0		0.0	
84 FIBER CABLE	42 pr			0.0		0.0	
96 FIBER CABLE	48 pr			0.0		0.0	
144 FIBER CABLE	72 pr			0.0		0.0	
192 FIBER CABLE	96 pr			0.0		0.0	
216 FIBER CABLE	108 pr			0.0		0.0	
CUMULATIVE LENGTHS OF FEEDER:					EFFECTIVE CABLE LENGTHS BY CABLE TYPE		
AERIAL FIBER SUBTOTAL				0	AERIAL FIBER SUBTOTAL		
BURIED FIBER SUBTOTAL				0	BURIED FIBER SUBTOTAL		
UNDGRD FIBER SUBTOTAL				0	UNDGRD FIBER SUBTOTAL		
FIBER SUBTOTAL				0	FIBER SUBTOTAL		

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LOOP COST ANALYSIS TOOL

Bellcore (R)

PLANT CHAR - WORKSHEET 2B
Sheet 2b / 5LOOP FACILITY INPUT
FIBER OPTIC CABLE SPAN INVESTMENT FOR THE FEEDER LAYERLCAT Rel : 1.0.4
Issued : 07/31/95COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATIINVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996STUDY YR : 1996
TEST CASE : 1

LAST UPDATE: 24-Oct-96

STATE: OHIO

SERVICE CLASS: BAND 3 - RESIDENCE ISDN

TIME: 13:36

NETWORK CIRCUIT LAYOUT STUDIES

WORKSHEET B

EFFECTIVE CHANNEL LENGTH BY CABLE PAIR FOOT [A] = [E]WKSH A/[F]WKSH C
 CUMULATIVE INVESTMENT BY CABLE CHANNEL FOOT [B] = [A]*[C]*UNIT INV FACILITY WKSH B

CAPACITY			AERIAL FIBER		BURIED FIBER		UNDERGROUND FIBER	
For these sizes ...	[C]	idx	[A]	[B]	[A]	[B]	[A]	[B]
4 FIBER CABLE	2 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
6 FIBER CABLE	3 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
12 FIBER CABLE	6 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
18 FIBER CABLE	9 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
24 FIBER CABLE	12 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
36 FIBER CABLE	18 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
48 FIBER CABLE	24 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
60 FIBER CABLE	30 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
72 FIBER CABLE	36 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
84 FIBER CABLE	42 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
96 FIBER CABLE	48 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
144 FIBER CABLE	72 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
192 FIBER CABLE	96 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
216 FIBER CABLE	108 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00
SUBTOTAL				\$ 0.00		\$ 0.00		\$ 0.00

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C:\123R24\LCATR099\SPAN		LOOP COST ANALYSIS TOOL						Bellcore		
INPUT - PLANT_CHAR. Sheet 3a / 5		LOOP FACILITY INPUT COPPER CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER FOR						LCAT Rel : 1.0.4 Issued : 07/31/95		
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - RESIDEN						STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 13:36		
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET A CUMULATIVE LENGTHS BY CABLE PAIR FOOT								
CABLE SHEATH SIZES	CAPACITY idx	26 GA.			24 GA.			22 GA.		
		AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40 COPPER CABLE	20 pr									
50 COPPER CABLE	25 pr									
80 COPPER CABLE	40 pr									
100 COPPER CABLE	50 pr									
140 COPPER CABLE	70 pr									
200 COPPER CABLE	100 pr									
400 COPPER CABLE	200 pr									
600 COPPER CABLE	300 pr									
800 COPPER CABLE	400 pr									
1200 COPPER CABLE	600 pr									
1800 COPPER CABLE	900 pr									
2400 COPPER CABLE	1200 pr									
3000 COPPER CABLE	1500 pr									
3600 COPPER CABLE	1800 pr									
4200 COPPER CABLE	2100 pr									
4800 COPPER CABLE	2400 pr									
5400 COPPER CABLE	2700 pr									
6000 COPPER CABLE	3000 pr									
7200 COPPER CABLE	3600 pr									
8400 COPPER CABLE	4200 pr									
SUB TOTALS		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTALS				0.0			0.0			0.0

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C:\123R24\LCATR099\SPAN			LOOP COST ANALYSIS TOOL									Bellcore	
PLANT CHAR - WORKSHEET 3B Sheet 3b / 5			LOOP FACILITY INPUT COPPER CABLE SPAN INVESTMENT FOR THE FEEDER LAYER FOR									LCAT Rel : 1.0.4 Issued : 07/31/95	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE: OHIO			INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996									STUDY YR : 1996 TEST CASE : 1 LAST UPDATE: 24-Oct-96 TIME : 13:36	
SERVICE CLASS: BAND 3 - RESIDENC													
NETWORK CIRCUIT LAYOUT STUDIES			WORKSHEET B										
CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT													
CABLE SHEATH SIZES		CAPACITY	26 GA.			24 GA.			22 GA.				
	idx		AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD		
40 COPPER CABLE	20 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
50 COPPER CABLE	25 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
80 COPPER CABLE	40 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
100 COPPER CABLE	50 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
140 COPPER CABLE	70 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
200 COPPER CABLE	100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
400 COPPER CABLE	200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
600 COPPER CABLE	300 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
800 COPPER CABLE	400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1200 COPPER CABLE	600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1800 COPPER CABLE	900 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2400 COPPER CABLE	1200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
3000 COPPER CABLE	1500 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
3600 COPPER CABLE	1800 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4200 COPPER CABLE	2100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4800 COPPER CABLE	2400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5400 COPPER CABLE	2700 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6000 COPPER CABLE	3000 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7200 COPPER CABLE	3600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
8400 COPPER CABLE	4200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
AERIAL CABLE SUBTOTAL			0.00			0.00							
BURIED CABLE SUBTOTAL				0.00									
UNDGRND CABLE SUBTOTAL					0.00								

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C:\123R24\LCATR099\SPAN		LOOP COST ANALYSIS TOOL						Bellcore		
INPUT - PLANT_CHAR. Sheet 4a / 5		LOOP FACILITY INPUT COPPER CABLE SPAN CHARACTERISTICS FOR THE DISTRIBUTION LAYER FOR						LCAT Rel : 1.0.4 Issued : 07/31/95		
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - RESIDENC						STUDY YR : 1996 TEST CASE : 1 LAST UPDATE: 24-Oct-96 TIME: 13:36		
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET A CUMULATIVE LENGTHS BY CABLE PAIR FOOT								
CABLE SHEATH SIZES	CAPACITY 10X	26 GA.			24 GA.			22 GA.		
		AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40 COPPER CABLE	20 pr									
50 COPPER CABLE	25 pr									
60 COPPER CABLE	40 pr									
100 COPPER CABLE	50 pr									
140 COPPER CABLE	70 pr									
200 COPPER CABLE	100 pr									
400 COPPER CABLE	200 pr									
600 COPPER CABLE	300 pr									
800 COPPER CABLE	400 pr									
1200 COPPER CABLE	600 pr									
1800 COPPER CABLE	900 pr									
2400 COPPER CABLE	1200 pr									
3000 COPPER CABLE	1500 pr									
3600 COPPER CABLE	1800 pr									
4200 COPPER CABLE	2100 pr									
4800 COPPER CABLE	2400 pr									
5400 COPPER CABLE	2700 pr									
6000 COPPER CABLE	3000 pr									
7200 COPPER CABLE	3600 pr									
8400 COPPER CABLE	4200 pr									
SUB TOTALS		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTALS				0.0						0.0

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distucprf 0.0
distucprf 0.0
distucprf 0.0
distucprf 0.0

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C:\123R24\LCATR099\SPAN		LOOP COST ANALYSIS TOOL										Bellcore	
PLANT CHAR - WORKSHEET 4B Sheet 4b / 5		LOOP FACILITY INPUT COPPER CABLE SPAN INVESTMENT FOR THE DISTRIBUTION LAYER FOR										LCAT Rel : 1.0.4 Issued : 07/31/95	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - RESIDENC										STUDY YR : 1996 TEST CASE : 1 LAST UPDATE: 24-Oct-96 TIME : 13:36	
NETWORK CIRCUIT LAYOUT STUDIES												WORKSHEET B	
CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT													
CABLE SHEATH SIZES		CAPACITY	26 GA.			24 GA.			22 GA.				
	idx		AERIAL	BURIED	UNOGRD	AERIAL	BURIED	UNOGRD	AERIAL	BURIED	UNOGRD		
40 COPPER CABLE	20 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
50 COPPER CABLE	25 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
80 COPPER CABLE	40 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
100 COPPER CABLE	50 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
140 COPPER CABLE	70 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
200 COPPER CABLE	100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
400 COPPER CABLE	200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
600 COPPER CABLE	300 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
800 COPPER CABLE	400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1200 COPPER CABLE	600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1800 COPPER CABLE	900 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2400 COPPER CABLE	1200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
3000 COPPER CABLE	1500 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
3600 COPPER CABLE	1800 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4200 COPPER CABLE	2100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4800 COPPER CABLE	2400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5400 COPPER CABLE	2700 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6000 COPPER CABLE	3000 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7200 COPPER CABLE	3600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
8400 COPPER CABLE	4200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
AERIAL CABLE SUBTOTAL			0.00			0.00			0.00				
BURIED CABLE SUBTOTAL				0.00			0.00			0.00			
UNOGRD CABLE SUBTOTAL					0.00			0.00			0.00		

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C:\123R24\LCATR099\SPAN		LOOP COST ANALYSIS TOOL						Bellcore (R)		
INPUT - PLANT_CHAR. Sheet 5 / 5		LOOP FACILITY INPUT DIGITAL LOOP CARRIER CABLE PAIR EQUIVALENTS AND MIX						LCAT Rel: 1.0.4 Issued: 07/31/95		
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO		FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 3 - RESIDENCE ISDN						STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 24-Oct-96 TIME: 13:36		
FIBER BANDWIDTH TRANSMISSION FLOW IS: ☒ UNIDIRECTIONAL ☐ BIDIRECTIONAL		LEVEL OF SERVICE: NARBAND								
BITRATE INDEX	1	2	3	4	5	6	7	SERVICE	PROTECTION	WEIGHTED
FIBER BANDWIDTH	45 Mbps	90 Mbps	155 Mbps	180 Mbps	0	0	0	LEVEL	LEVEL	EQUIVALENT
MUX DS3 MULTIPLIER	1	2	3	4	0	0	0	MULTIPLE	n: 1	CHANNELS
VOICE GRADE CHANNELS	672	1344	2016	2688	0	0	0	[SLM]	[E]	[F]
FEEDER - PRIMARY	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1	1979.04
FEEDER - EXTENSION	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1	1979.04

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FOOTNOTES
1 Where Service Level Multiple EQUALS {1 for NARBAND, 28 for WIDEBAND, 672 for BRDBAND} TIMES {2 for Unidirectional, 1 for Bidirectional}.
2 Where Wtd Eqv Chan per FO Pr [F] EQUALS {The Avg Wtd VGE for BR1 -> 7} DIVIDED BY {The [SLM] TIMES {1 MUST OVER PROT. (0)}}

PLANT CHAR. - WORKSHEET DS
Sheet 1 / 1

COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 24-Oct-96
TIME: 13:35

WORKSHEET DS

DIGITAL SIGNAL TABLE (dissid.tbl)						
SELECT	MODE	HIERARCHY	BNDWIDTH	DS1MULT	DS3MULT	VGE MEDIA
0						
1		DS1	1.5 Mbps	1	0.04	24 BIDIR 2WCU CA
2		DS1	1.5 Mbps	1	0.04	24 UNDIR 2WCU CA
3	MODE3	V11	1.5 Mbps	1	0.04	24 UNDIR FIBER
4		V12	2 Mbps	1	0	UNDIR FIBER
5		E1	2 Mbps	1	0.06	30 BIDIR 2WCU CA
6	MODE1	DS1C	3.2 Mbps	NA		48 BIDIR 2WCU CA
7	MODE2	DS1C	3.2 Mbps	2	0.07	48 BIDIR 2WCU CA
8		V13	3.2 Mbps	2	0.07	56 UNDIR FIBER
9		E2	4 Mbps	2	0	60
10		DS2	8.3 Mbps	4	0.14	72 BIDIR 2WCU CA
11	MODE4	DS2	8.3 Mbps	NA	0	72 BIDIR 2WCU CA
12		V16	8.3 Mbps	4	0.14	84 UNDIR FIBER
13		E2	8 Mbps	4	0.25	120 BIDIR 2WCU CA
14		E3	34 Mbps	16	1	480
15	X	DS3	45 Mbps	28	1	672 BIDIR 2WCU CA
16		STST	OC1	50 Mbps	28	672 UNDIR FIBER
17	X		90 Mbps		2	1344 UNDIR FIBER
18			90 Mbps		2	1344 BIDIR MW RADIO
19		DS4	135 Mbps		3	2016 UNDIR FIBER
20			135 Mbps		3	2016 BIDIR MW RADIO
21		DS4NA	139 Mbps		3	2016 UNDIR FIBER
22		E4	140 Mbps		3	1920 UNDIR FIBER
23		T4M	139 Mbps		6	4032 BIDIR COAX
24		P140	139 Mbps		6	4032 BIDIR COAX
25	X		OC3	155 Mbps	3	2016 UNDIR FIBER
26	X		180 Mbps		4	2688 UNDIR FIBER
27			417 Mbps		9	6048 UNDIR FIBER
28			OC9	466 Mbps	9	6048 UNDIR FIBER
29			OC12	560 Mbps	12	7680 UNDIR FIBER
30			565 Mbps		12	8064 UNDIR FIBER
31			1.2 Gbps		24	16128 UNDIR FIBER
32			1.7 Gbps		36	24192 UNDIR FIBER
33			OC24	1.8 Gbps	24	24192 UNDIR FIBER
34			2.5 Gbps		24	34560 UNDIR FIBER
35						
36						
0	1	2	3	4	5	
OFFSET						

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PLANT_CHAR. - WORKSHEET F
Sheet 1 of 1

LOOP LENGTH DEVELOPMENT WORKSHEET

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 24-Oct-96

TIME: 13:36

COMPANY: CINCINNATI BELL TEL.
CITY/AREA: CINCINNATI
STATE: OHIO

INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 3 - RESIDENCE
WORKSHEET F

[A] BAND NUMBER [C]	DISTANCE INCREMENTS: NUMBER OF BANDS: TOTAL WORKING FEET [D=input]	0 / 4 MILE BETWEEN BANDS TO BE CARRIED INTO THE STUDY TOTAL WORKING FEET [E=(B*D)]	[R] K TOTAL AIR FEET [F=A*C*K]	ROUTE TO AIR RATIO: UNIT MILE / FEET CONSTANT: LOOP LENGTH @ MIDPOINT [G (see note)]	1.539947 1320 WORKING FEET @ MIDPOINT [H=G*R]
1		0			
2		0			
3		0			
4		0			
5		0			

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NOTE - SPAN MIDPOINT [G] equals the $\text{SQRT}((F_{\text{CURR}}^2/2) + (F_{\text{PREV}}^2/2))$

ERROR MESSAG 0

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OHIO ONLY
3 Geographic Areas
ISDN

10/10/96 Revised

Band 1

		Residence			Business		
		Average F1 Length	Average F2 Length	Average Loop	Average F1 Length	Average F2 Length	Average Loop
		A	B	C	D	E	F
1	0-18,000	8,298	1,390	9,688	7,007	971	7,977
2	# Of Entries	144			285		
3	18,001-INFINITY	17,880	2,925	20,805	19,201	2,119	21,320
4	# Of Entries	16			8		
5	Ratio						
6	0-18,000	0.8369			0.9378		
7	18,001-INFINITY	0.1631			0.0622		
		1.0000			1.0000		

Band 2

8	0-18,000	8,444	2,097	10,541	7,015	1,136	8,151
9	# Of Entries	95			107		
10	18,001-INFINITY	23,425	2,646	26,071	24,110	2,049	26,159
11	# Of Entries	44			57		
12	Ratio	0.6835			0.6524		
13	0-18,000	0.3165			0.3476		
14	18,001-INFINITY	1.0000			1.0000		

Band 3

15	0-18,000	4,845	1,981	6,825	4,512	1,095	5,608
16	# Of Entries	46			41		
17	18,001-INFINITY	23,301	4,826	28,127	23,881	3,479	27,360
18	# Of Entries	56			71		
19	Ratio	0.4510			0.5773		
20	0-18,000	0.5490			0.4226		
21	18,001-INFINITY	1.0000			1.0000		

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EXHIBIT NOs.
39-41

OHIO ONLY
REVISED JAN 1997 VERSION
BAND 1
RESIDENCE LINE

MCI Depo.
Ex. No. 39
DJH 11-26-97

INDEX

BAND 1

Residence Line

Copper Study -	Results.....	Tab 1
	Outputs.....	Tab 2
	Inputs.....	Tab 3
	Miscellaneous	Tab 4

Digital Loop Carrier Study -	Results	Tab 5
	Outputs.....	Tab 6
	Inputs.....	Tab 7
	Miscellaneous	Tab 8

A
B
C
D
E
F
GCA123R24\LCATR35\RESULTS1
OUTPUT - REPORT D
SHEET 1 of 1**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT SUMMARY REPORTBellcore[®]LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 13:37COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: TOTAL TECHNOLOGIES
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 1 - RESIDENCE LIN
TOTAL LOOP LENGTH: 7184 FEET

Loop Scan Set Weighting: 1 UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

WEIGHTED
TOTAL
LOOP

PLANT ITEM DESCRIPTION	PLANT NAME	FEEDER			DISTRIBUTION NETWORK		TOTAL LOOP
	SEQ. NAME EQPT CODE	PRIMARY	EXTENSION	SUB-	INTERFACE		
SEG. LGTH.							
SHARED RESOURCES							
LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
DIRECT RESOURCES							
LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.4513
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.49	\$ 2.48	\$ 0.00	\$ 2.9700
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.96	\$ 0.00	\$ 0.9600
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 2.97	\$ 1.37	\$ 0.00	\$ 4.3400
CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.12	\$ 0.58	\$ 0.00	\$ 0.7100
CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 1.05	\$ 0.49	\$ 0.00	\$ 1.5400
SPAN SUMMARY		\$ 0.00	\$ 0.00	\$ 4.63	\$ 5.69	\$ 2.45	\$ 12.97
							\$ 12.97

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C:\123R24\LCATR088\RESULTS1
OUTPUT - COST_REPORTS

Belcore^(R)
LCAT
Release: 1.0.4
Issued: 7/31/95

LOOP COST ANALYSIS TOOL

COST MODEL - INVESTMENT BY ACCOUNT REPORTS

STUDY NAME: 1996 BAND 1 (OHIO) RESIDENCE LINE STUDY 0 - 12000 FEET INTRASTATE

CURRENT TEST PLAN :

CURRENT JOB IDENT. CINCINNATI				
BASIS	NETWORK	TEST CASE	1	LAST SAVE
FR/DS	FLAT RATE	#BANDS	0	17-Jan-97
SVC LEVEL	NARBAND	#CKTS	1	18:05
CST METH	UN INCR	INV LEVEL	ANNCOST	TIME

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your report is ready for viewing
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BEFORE RELEASE TO PUBLIC
PROVIDED TO FCCO

PROPRIETARY - NOT FOR USE/DISCLOSURE OUTSIDE Belcore WITHOUT LICENSED PERMISSION

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A
B
C
D
E
F
GC:\123R24\LCATR088\RESULTS1
OUTPUT - WORKSHEET D
SHEET 1 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore

LCAT Rel: 1.0.4
Issued: 7/31/95COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: 1 CDLC
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 1 - RESIDENCE LIN
TOTAL LOOP LENGTH: 7184 FEETSTUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 13:37

Circuit Design Mix: 1.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

WEIGHTED

	PLANT NAME SEG. NAME EQPT CODE	FEEDER				TOTAL LOOP	WEIGHTED TOTAL LOOP
		PRIMARY	EXTENSION	SUB-	DISTRIBUTION NETWORK INTERFACE		
0	PLANT						
1	ITEM DESCRIPTION						
2	SHARED RESOURCES						
3	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
4	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
5	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
6	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
7	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
8	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
9	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
10	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
11	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
12	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
13	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
14	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
15	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
16	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
17	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
18	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
19	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
20	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
21	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
22	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
23							
24	DIRECT RESOURCES						
25	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
26	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
27	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45	\$ 2.45
28	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
29	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.49	\$ 2.48	\$ 2.97	\$ 2.97
30	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.96	\$ 0.96	\$ 0.96
31	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 2.97	\$ 1.97	\$ 4.34	\$ 4.34
32	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
33	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
34	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
35	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
36	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
37	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
38	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
39	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
40	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
41	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
42	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
43	POLE LINE	1C	\$ 0.00	\$ 0.12	\$ 0.59	\$ 0.71	\$ 0.71
44	CONDUIT	4C	\$ 0.00	\$ 1.05	\$ 0.49	\$ 1.54	\$ 1.54
45							
46	SPAN SUMMARY		\$ 0.00	\$ 0.00	\$ 4.63	\$ 5.89	\$ 12.97
47	CIRCUIT DESIGN SUMMARY					\$ 2.45	\$ 12.97
48							\$ 12.97
49							
50							
51							
52							
53							
54							
55							

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A B C D E F G		C:\23R24\LCATR088\RESULTS1				LOOP COST ANALYSIS TOOL				Belcore [®]	
		OUTPUT - WORKSHEET D				PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
		SHEET 2 of 10								Issued: 7/31/95	
		COMPANY: CINCINNATI BELL TEL				CIRCUIT DESIGN: 2 CDLC				STUDY YR: 1996	
		CITY / AREA: CINCINNATI				LOOP SPAN DIVISION: ALL LOOP SPANS				TEST CASE: 1	
		STATE / PROV: OHIO				SERVICE CLASS: BAND 1 - RESIDENCE LIN				DATE: 22-Jan-97	
		JOB IDENT: CINCINNATI				TOTAL LOOP LENGTH: 7184 FEET				TIME: 13:37	
0		Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY									
1		PLANT NAME	FEEDER	DISTRIBUTION NETWORK	TOTAL	WEIGHTED					
2		SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE	LOOP	TOTAL			
3		EQPT						LOOP			
4		PLANT						LOOP			
5		CODE						LOOP			
6		ITEM DESCRIPTION						LOOP			
7		<u>SHARED RESOURCES</u>									
8		LAND	20C				\$0	\$0			
9		BUILDING	10C				\$0	\$0			
10		BLDG ENTRANCE CABLE	12C				\$0	\$0			
11		INTRABLDG CABLE	52C				\$0	\$0			
12		AERIAL CABLE (COPPER)	22C				\$0	\$0			
13		BURIED CABLE (COPPER)	45C				\$0	\$0			
14		UNDERGROUND (CU) CA.	5C				\$0	\$0			
15		CO EQPT - LOW CAP TERM	257C				\$0	\$0			
16		CO EQPT - LOW CAP CHAN	257C				\$0	\$0			
17		CO EQPT - HI CAP TERM	857C				\$0	\$0			
18		CO EQPT - HI CAP CHAN	857C				\$0	\$0			
19		CO EQPT - ANALOG SW	77C				\$0	\$0			
20		CO EQPT - DIGITAL SW	377C				\$0	\$0			
21		AERIAL CABLE (FIBER)	822C				\$0	\$0			
22		BURIED CABLE (FIBER)	845C				\$0	\$0			
23		UNDERGROUND (FO) CA.	85C				\$0	\$0			
24		CONNECTORS	57C				\$0	\$0			
25		MISC. COM EQP & PWR	57C				\$0	\$0			
26		POLE LINE	1C				\$0	\$0			
27		CONDUIT	4C				\$0	\$0			
28											
29		<u>DIRECT RESOURCES</u>									
30		LAND	20C				\$0	\$0			
31		BUILDING	10C				\$0	\$0			
32		BLDG ENTRANCE CABLE	12C				\$0	\$0			
33		INTRABLDG CABLE	52C				\$0	\$0			
34		AERIAL CABLE (COPPER)	22C				\$0	\$0			
35		BURIED CABLE (COPPER)	45C				\$0	\$0			
36		UNDERGROUND (CU) CA.	5C				\$0	\$0			
37		CO EQPT - P GAIN TERM	257C				\$0	\$0			
38		CO EQPT - P GAIN CHAN	257C				\$0	\$0			
39		CO EQPT - FO MUX TERM	857C				\$0	\$0			
40		CO EQPT - FO MUX CHAN	857C				\$0	\$0			
41		CO EQPT - ANALOG SW	77C				\$0	\$0			
42		CO EQPT - DIGITAL SW	377C				\$0	\$0			
43		AERIAL CABLE (FIBER)	822C				\$0	\$0			
44		BURIED CABLE (FIBER)	845C				\$0	\$0			
45		UNDERGROUND (FO) CA.	85C				\$0	\$0			
46		CONNECTORS	57C				\$0	\$0			
47		MISC. COM EQP & PWR	57C				\$0	\$0			
48		POLE LINE	1C				\$0	\$0			
49		CONDUIT	4C				\$0	\$0			
50											
51		SPAN SUMMARY					\$0	\$0			
52											
53		CIRCUIT DESIGN SUMMARY					\$0	\$0			
54											
55											

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C:\123R24\LCATR088\RESULTS1			LOOP COST ANALYSIS TOOL					Bellcore [®]	
OUTPUT - WORKSHEET D			PROSPECTIVE INVESTMENT WORKSHEET SUMMARY					LCAT Rel : 1.0.4	
SHEET 3 of 10			COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN : MELDED		CDLC	STUDY YR : 1998	
			CITY / AREA: CINCINNATI		LOOP SPAN DIVISION : ALL LOOP		SPANS	TEST CASE : 1	
			STATE / PROV : OHIO		SERVICE CLASS : BAND 1 - RESIDENCE LIN			RUN DATE : 22-Jan-97	
			JOB IDENT : CINCINNATI		TOTAL LOOP LENGTH : 7184 FEET			TIME : 13:37	
Technology Type Mix : 0.0000			UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY					TECHNOLOGY WEIGHTED	
PLANT NAME			FEEDER		DISTRIBUTION NETWORK		TOTAL LOOP		
SEG. NAME			PRIMARY	EXTENSION	SUB-	INTERFACE	TOTAL LOOP		
EQPT									
CODE									
PLANT									
ITEM DESCRIPTION									
SHARED RESOURCES									
LAND 20C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BUILDING 10C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BLDG ENTRANCE CABLE 12C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
INTRABLDG CABLE 52C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (COPPER) 22C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BURIED CABLE (COPPER) 45C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (CU) CA. 5C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - LOW CAP TERM 257C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - LOW CAP CHAN 257C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP TERM 857C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP CHAN 857C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - ANALOG SW 77C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - DIGITAL SW 377C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (FIBER) 822C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BURIED CABLE (FIBER) 845C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (FO) CA. 85C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONNECTORS 57C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
MISC. COM EQP & PWR 57C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
POLE LINE 1C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONDUIT 4C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
DIRECT RESOURCES									
LAND 20C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BUILDING 10C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BLDG ENTRANCE CABLE 12C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45	\$ 0.0000
INTRABLDG CABLE 52C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (COPPER) 22C			\$ 0.00	\$ 0.00	\$ 0.49	\$ 2.48	\$ 0.00	\$ 2.97	\$ 0.0000
BURIED CABLE (COPPER) 45C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.96	\$ 0.00	\$ 0.96	\$ 0.0000
UNDERGROUND (CU) CA. 5C			\$ 0.00	\$ 0.00	\$ 2.97	\$ 1.37	\$ 0.00	\$ 4.34	\$ 0.0000
CO EQPT - P GAIN TERM 257C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - P GAIN CHAN 257C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - FO MUX TERM 857C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - FO MUX CHAN 857C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - ANALOG SW 77C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - DIGITAL SW 377C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (FIBER) 822C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BURIED CABLE (FIBER) 845C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (FO) CA. 85C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONNECTORS 57C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
MISC. COM EQP & PWR 57C			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
POLE LINE 1C			\$ 0.00	\$ 0.00	\$ 0.12	\$ 0.59	\$ 0.00	\$ 0.71	\$ 0.0000
CONDUIT 4C			\$ 0.00	\$ 0.00	\$ 1.05	\$ 0.49	\$ 0.80	\$ 1.54	\$ 0.0000
SPAN SUMMARY			\$ 0.00	\$ 0.00	\$ 4.63	\$ 5.89	\$ 2.45	\$ 12.97	\$ 0.00
TECHNOLOGY DESIGN SUMMARY								\$ 12.97	

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A B C D E F G		CA123R24\LCATR088\RESULTS1 OUTPUT - WORKSHEET D SHEET 4 of 10		LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				Bellcore (R)	
		COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 1 FOMUX		LCAT Rel: 1.0.4		STUDY YR: 1996	
		CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		Issued: 7/31/95		TEST CASE: 1	
		STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - RESIDENCE LIN		RUN DATE: 22-Jan-97		TIME: 13:37	
		JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 7184 FEET					
0		Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							
1		PLANT NAME	FEEDER	SUB-	DISTRIBUTION NETWORK	TOTAL	WEIGHTED		
2		SEG. NAME	PRIMARY	EXTENSION	INTERFACE	LOOP	TOTAL	LOOP	
3		EQPT							
4		CODE							
5		PLANT							
6		ITEM DESCRIPTION							
7		<u>SHARED RESOURCES</u>							
8		LAND	20C			\$0	\$0		
9		BUILDING	10C			\$0	\$0		
10		BLDG ENTRANCE CABLE	12C			\$0	\$0		
11		INTRABLDG CABLE	52C			\$0	\$0		
12		AERIAL CABLE (COPPER)	22C			\$0	\$0		
13		BURIED CABLE (COPPER)	45C			\$0	\$0		
14		UNDERGROUND (CU) CA.	5C			\$0	\$0		
15		CO EQPT - LOW CAP TERM	257C			\$0	\$0		
16		CO EQPT - LOW CAP CHAN	257C			\$0	\$0		
17		CO EQPT - HI CAP TERM	857C			\$0	\$0		
18		CO EQPT - HI CAP CHAN	857C			\$0	\$0		
19		CO EQPT - ANALOG SW	77C			\$0	\$0		
20		CO EQPT - DIGITAL SW	377C			\$0	\$0		
21		AERIAL CABLE (FIBER)	822C			\$0	\$0		
22		BURIED CABLE (FIBER)	845C			\$0	\$0		
23		UNDERGROUND (FO) CA.	85C			\$0	\$0		
24		CONNECTORS	57C			\$0	\$0		
25		MISC. COM EQP & PWR	57C			\$0	\$0		
26		POLE LINE	1C			\$0	\$0		
27		CONDUIT	4C			\$0	\$0		
28									
29		<u>DIRECT RESOURCES</u>							
30		LAND	20C			\$0	\$0		
31		BUILDING	10C			\$0	\$0		
32		BLDG ENTRANCE CABLE	12C			\$0	\$0		
33		INTRABLDG CABLE	52C			\$0	\$0		
34		AERIAL CABLE (COPPER)	22C			\$0	\$0		
35		BURIED CABLE (COPPER)	45C			\$0	\$0		
36		UNDERGROUND (CU) CA.	5C			\$0	\$0		
37		CO EQPT - LOW CAP TERM	257C			\$0	\$0		
38		CO EQPT - LOW CAP CHAN	257C			\$0	\$0		
39		CO EQPT - HI CAP TERM	857C			\$0	\$0		
40		CO EQPT - HI CAP CHAN	857C			\$0	\$0		
41		CO EQPT - ANALOG SW	77C			\$0	\$0		
42		CO EQPT - DIGITAL SW	377C			\$0	\$0		
43		AERIAL CABLE (FIBER)	822C			\$0	\$0		
44		BURIED CABLE (FIBER)	845C			\$0	\$0		
45		UNDERGROUND (FO) CA.	85C			\$0	\$0		
46		CONNECTORS	57C			\$0	\$0		
47		MISC. COM EQP & PWR	57C			\$0	\$0		
48		POLE LINE	1C			\$0	\$0		
49		CONDUIT	4C			\$0	\$0		
50									
51		SPAN SUMMARY	\$0	\$0	\$0	\$0	\$0		
52						\$0	\$0		
53						\$0	\$0		
54						\$0	\$0		
55						\$0	\$0		

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C:\123R24\LCATR088\RESULTS1		LOOP COST ANALYSIS TOOL				Bellicore [®]	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Ref: 1.0.4	
SHEET 5 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 2 FOMUX		STUDY YR: 1996		TEST CASE: 1	
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		RUN DATE: 22-Jan-97		TIME: 13:37	
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - RESIDENCE LIN					
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 7184 FEET					
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY				TOTAL	WEIGHTED
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		LOOP	TOTAL
EQPT		SUB-		INTERFACE			LOOP
PLANT	CODE	PRIMARY	EXTENSION	SUB-	INTERFACE		
ITEM DESCRIPTION							
SHARED RESOURCES							
8	LAND	20C				\$0	\$0
9	BUILDING	10C				\$0	\$0
10	BLDG ENTRANCE CABLE	12C				\$0	\$0
11	INTRABLDG CABLE	52C				\$0	\$0
12	AERIAL CABLE (COPPER)	22C				\$0	\$0
13	BURIED CABLE (COPPER)	45C				\$0	\$0
14	UNDERGROUND (CU) CA.	5C				\$0	\$0
15	CO EQPT - LOW CAP TERM	257C				\$0	\$0
16	CO EQPT - LOW CAP CHAN	257C				\$0	\$0
17	CO EQPT - HI CAP TERM	857C				\$0	\$0
18	CO EQPT - HI CAP CHAN	857C				\$0	\$0
19	CO EQPT - ANALOG SW	77C				\$0	\$0
20	CO EQPT - DIGITAL SW	377C				\$0	\$0
21	AERIAL CABLE (FIBER)	822C				\$0	\$0
22	BURIED CABLE (FIBER)	845C				\$0	\$0
23	UNDERGROUND (FO) CA.	85C				\$0	\$0
24	CONNECTORS	57C				\$0	\$0
25	MISC. COM EQP & PWR	57C				\$0	\$0
26	POLE LINE	1C				\$0	\$0
27	CONDUIT	4C				\$0	\$0
DIRECT RESOURCES							
30	LAND	20C				\$0	\$0
31	BUILDING	10C				\$0	\$0
32	BLDG ENTRANCE CABLE	12C				\$0	\$0
33	INTRABLDG CABLE	52C				\$0	\$0
34	AERIAL CABLE (COPPER)	22C				\$0	\$0
35	BURIED CABLE (COPPER)	45C				\$0	\$0
36	UNDERGROUND (CU) CA.	5C				\$0	\$0
37	CO EQPT - LOW CAP TERM	257C				\$0	\$0
38	CO EQPT - LOW CAP CHAN	257C				\$0	\$0
39	CO EQPT - HI CAP TERM	857C				\$0	\$0
40	CO EQPT - HI CAP CHAN	857C				\$0	\$0
41	CO EQPT - ANALOG SW	77C				\$0	\$0
42	CO EQPT - DIGITAL SW	377C				\$0	\$0
43	AERIAL CABLE (FIBER)	822C				\$0	\$0
44	BURIED CABLE (FIBER)	845C				\$0	\$0
45	UNDERGROUND (FO) CA.	85C				\$0	\$0
46	CONNECTORS	57C				\$0	\$0
47	MISC. COM EQP & PWR	57C				\$0	\$0
48	POLE LINE	1C				\$0	\$0
49	CONDUIT	4C				\$0	\$0
SPAN SUMMARY		\$0	\$0	\$0	\$0	\$0	\$0
						\$0	\$0

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A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX EY EZ FA FB FC FD FE FF FG FH FI FJ FK FL FM FN FO FP FQ FR FS FT FU FV FW FX FY FZ GA GB GC GD GE GF GG GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HH HI HJ HK HL HM HN HO HP HQ HR HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IJ IK IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JV JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KK KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LL LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MM MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NM NN NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OO OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QP QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TT TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UP UQ UR US UT UU UV UW UX UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VP VQ VR VS VT VU VV VW VX VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WP WQ WR WS WT WU WV WW WX WY WZ XA XB XC XD XE XF XG XH XI XJ XK XL XM XN XO XP XQ XR XS XT XU XV XW XX XY XZ YA YB YC YD YE YF YG YH YI YJ YK YL YM YN YO YP YQ YR YS YT YU YV YW YX YZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZP ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ	Circuit Design Mix : 1.0000	UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY				TOTAL LOOP	WEIGHTED TOTAL LOOP
		PLANT NAME	FEEDER	DISTRIBUTION	NETWORK		
		SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE	
		EQPT					
		CODE					
		PLANT					
		ITEM DESCRIPTION					
7		SHARED RESOURCES					
8		LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
9		BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
10		BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
11		INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
12		AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
13		BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
14		UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
15		CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
16		CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
17		CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
18		CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
19		CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
20		CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
21		AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
22		BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
23		UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
24		CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
25		MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
26		POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
27		CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
28							
29		DIRECT RESOURCES					
30		LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
31		BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
32		BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45
33		INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
34		AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.49	\$ 2.48	\$ 2.97
35		BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.96	\$ 0.96
36		UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 2.97	\$ 1.37	\$ 4.34
37		CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
38		CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
39		CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
40		CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
41		CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
42		CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
43		AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
44		BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
45		UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
46		CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
47		MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
48		POLE LINE	1C	\$ 0.00	\$ 0.12	\$ 0.59	\$ 0.71
49		CONDUIT	4C	\$ 0.00	\$ 1.05	\$ 0.49	\$ 1.54
50							
51		SPAN SUMMARY		\$ 0.00	\$ 0.00	\$ 4.63	\$ 5.89
52						\$ 2.45	\$ 12.97
53							\$ 12.97
54							
55							

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GC:\123R24\LCATR088\RESULTS1
OUTPUT - WORKSHEET D
SHEET 7 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY**Bellcore**LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 13:37COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: 4 FOMUX
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 1 - RESIDENCE LIN
TOTAL LOOP LENGTH: 7184 FEET

Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

	PLANT NAME	FEEDER	DISTRIBUTION NETWORK	TOTAL LOOP	WEIGHTED TOTAL LOOP
	PLANT CODE	PRIMARY	EXTENSION	SUB--	INTERFACE
0					
1					
2					
3					
4					
5					
6	PLANT				
7	ITEM DESCRIPTION				
8	<u>SHARED RESOURCES</u>				
9	LAND	20C			\$0
10	BUILDING	10C			\$0
11	BLDG ENTRANCE CABLE	12C			\$0
12	INTRABLDG CABLE	52C			\$0
13	AERIAL CABLE (COPPER)	22C			\$0
14	BURIED CABLE (COPPER)	45C			\$0
15	UNDERGROUND (CU) CA.	5C			\$0
16	CO EQPT - LOW CAP TERM	257C			\$0
17	CO EQPT - LOW CAP CHAN	257C			\$0
18	CO EQPT - HI CAP TERM	857C			\$0
19	CO EQPT - HI CAP CHAN	857C			\$0
20	CO EQPT - ANALOG SW	77C			\$0
21	CO EQPT - DIGITAL SW	377C			\$0
22	AERIAL CABLE (FIBER)	822C			\$0
23	BURIED CABLE (FIBER)	845C			\$0
24	UNDERGROUND (FO) CA.	85C			\$0
25	CONNECTORS	57C			\$0
26	MISC. COM EQP & PWR	57C			\$0
27	POLE LINE	1C			\$0
28	CONDUIT	4C			\$0
29	<u>DIRECT RESOURCES</u>				
30	LAND	20C			\$0
31	BUILDING	10C			\$0
32	BLDG ENTRANCE CABLE	12C			\$0
33	INTRABLDG CABLE	52C			\$0
34	AERIAL CABLE (COPPER)	22C			\$0
35	BURIED CABLE (COPPER)	45C			\$0
36	UNDERGROUND (CU) CA.	5C			\$0
37	CO EQPT - LOW CAP TERM	257C			\$0
38	CO EQPT - LOW CAP CHAN	257C			\$0
39	CO EQPT - HI CAP TERM	857C			\$0
40	CO EQPT - HI CAP CHAN	857C			\$0
41	CO EQPT - ANALOG SW	77C			\$0
42	CO EQPT - DIGITAL SW	377C			\$0
43	AERIAL CABLE (FIBER)	822C			\$0
44	BURIED CABLE (FIBER)	845C			\$0
45	UNDERGROUND (FO) CA.	85C			\$0
46	CONNECTORS	57C			\$0
47	MISC. COM EQP & PWR	57C			\$0
48	POLE LINE	1C			\$0
49	CONDUIT	4C			\$0
50					
51	SPAN SUMMARY	\$0	\$0	\$0	\$0
52					\$0
53					\$0
54					\$0
55					\$0

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GCA123R24\LCATR088\RESULTS1
OUTPUT - WORKSHEET D
SHEET 8 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellicore®

LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1998
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 13:37COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: 5 FOMUX
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 1 - RESIDENCE LIN
TOTAL LOOP LENGTH: 7184 FEET

Circuit Design Mix: 0.0000

UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

WEIGHTED

PLANT NAME	FEEDER	DISTRIBUTION NETWORK	TOTAL	WEIGHTED
SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE
EQPT				
CODE				
PLANT				
ITEM DESCRIPTION				
SHARED RESOURCES				
LAND	20C		\$0	\$0
BUILDING	10C		\$0	\$0
BLDG ENTRANCE CABLE	12C		\$0	\$0
INTRABLDG CABLE	52C		\$0	\$0
AERIAL CABLE (COPPER)	22C		\$0	\$0
BURIED CABLE (COPPER)	45C		\$0	\$0
UNDERGROUND (CU) CA.	5C		\$0	\$0
CO EQPT - LOW CAP TERM	257C		\$0	\$0
CO EQPT - LOW CAP CHAN	257C		\$0	\$0
CO EQPT - HI CAP TERM	857C		\$0	\$0
CO EQPT - HI CAP CHAN	857C		\$0	\$0
CO EQPT - ANALOG SW	77C		\$0	\$0
CO EQPT - DIGITAL SW	377C		\$0	\$0
AERIAL CABLE (FIBER)	822C		\$0	\$0
BURIED CABLE (FIBER)	845C		\$0	\$0
UNDERGROUND (FO) CA.	85C		\$0	\$0
CONNECTORS	57C		\$0	\$0
MISC. COM EQP & PWR	57C		\$0	\$0
POLE LINE	1C		\$0	\$0
CONDUIT	4C		\$0	\$0
DIRECT RESOURCES				
LAND	20C		\$0	\$0
BUILDING	10C		\$0	\$0
BLDG ENTRANCE CABLE	12C		\$0	\$0
INTRABLDG CABLE	52C		\$0	\$0
AERIAL CABLE (COPPER)	22C		\$0	\$0
BURIED CABLE (COPPER)	45C		\$0	\$0
UNDERGROUND (CU) CA.	5C		\$0	\$0
CO EQPT - LOW CAP TERM	257C		\$0	\$0
CO EQPT - LOW CAP CHAN	257C		\$0	\$0
CO EQPT - HI CAP TERM	857C		\$0	\$0
CO EQPT - HI CAP CHAN	857C		\$0	\$0
CO EQPT - ANALOG SW	77C		\$0	\$0
CO EQPT - DIGITAL SW	377C		\$0	\$0
AERIAL CABLE (FIBER)	822C		\$0	\$0
BURIED CABLE (FIBER)	845C		\$0	\$0
UNDERGROUND (FO) CA.	85C		\$0	\$0
CONNECTORS	57C		\$0	\$0
MISC. COM EQP & PWR	57C		\$0	\$0
POLE LINE	1C		\$0	\$0
CONDUIT	4C		\$0	\$0
SPAN SUMMARY	\$0	\$0	\$0	\$0
			\$0	\$0

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A B C D E F G		C:\123R24\LCATR088\RESULTS1 OUTPUT - WORKSHEET D SHEET 9 of 10		LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				Bellcore (R)	
		COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 6 FOMUX		LCAT Rel: 1.0.4 Issued: 7/31/95		STUDY YR: 1996	
		CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1		RUN DATE: 22-Jan-97	
		STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - RESIDENCE LIN		TIME: 13:37			
		JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 7184 FEET					
0		Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							
1		PLANT NAME	FEEDER	DISTRIBUTION NETWORK		TOTAL	WEIGHTED		
2		SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE	LOOP	TOTAL	LOOP
3		EQPT							
4		PLANT							
5		CODE							
6		ITEM DESCRIPTION							
7		SHARED RESOURCES							
8		LAND	20C				\$0	\$0	
9		BUILDING	10C				\$0	\$0	
10		BLDG ENTRANCE CABLE	12C				\$0	\$0	
11		INTRABLDG CABLE	52C				\$0	\$0	
12		AERIAL CABLE (COPPER)	22C				\$0	\$0	
13		BURIED CABLE (COPPER)	45C				\$0	\$0	
14		UNDERGROUND (CU) CA.	5C				\$0	\$0	
15		CO EQPT - LOW CAP TERM	257C				\$0	\$0	
16		CO EQPT - LOW CAP CHAN	257C				\$0	\$0	
17		CO EQPT - HI CAP TERM	857C				\$0	\$0	
18		CO EQPT - HI CAP CHAN	857C				\$0	\$0	
19		CO EQPT - ANALOG SW	77C				\$0	\$0	
20		CO EQPT - DIGITAL SW	377C				\$0	\$0	
21		AERIAL CABLE (FIBER)	822C				\$0	\$0	
22		BURIED CABLE (FIBER)	845C				\$0	\$0	
23		UNDERGROUND (FO) CA.	85C				\$0	\$0	
24		CONNECTORS	57C				\$0	\$0	
25		MISC. COM EQP & PWR	57C				\$0	\$0	
26		POLE LINE	1C				\$0	\$0	
27		CONDUIT	4C				\$0	\$0	
28									
29		DIRECT RESOURCES							
30		LAND	20C				\$0	\$0	
31		BUILDING	10C				\$0	\$0	
32		BLDG ENTRANCE CABLE	12C				\$0	\$0	
33		INTRABLDG CABLE	52C				\$0	\$0	
34		AERIAL CABLE (COPPER)	22C				\$0	\$0	
35		BURIED CABLE (COPPER)	45C				\$0	\$0	
36		UNDERGROUND (CU) CA.	5C				\$0	\$0	
37		CO EQPT - LOW CAP TERM	257C				\$0	\$0	
38		CO EQPT - LOW CAP CHAN	257C				\$0	\$0	
39		CO EQPT - HI CAP TERM	857C				\$0	\$0	
40		CO EQPT - HI CAP CHAN	857C				\$0	\$0	
41		CO EQPT - ANALOG SW	77C				\$0	\$0	
42		CO EQPT - DIGITAL SW	377C				\$0	\$0	
43		AERIAL CABLE (FIBER)	822C				\$0	\$0	
44		BURIED CABLE (FIBER)	845C				\$0	\$0	
45		UNDERGROUND (FO) CA.	85C				\$0	\$0	
46		CONNECTORS	57C				\$0	\$0	
47		MISC. COM EQP & PWR	57C				\$0	\$0	
48		POLE LINE	1C				\$0	\$0	
49		CONDUIT	4C				\$0	\$0	
50									
51		SPAN SUMMARY		\$0	\$0	\$0	\$0	\$0	\$0
52									
53		\$0							
54									
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A B C D E F G	LOOP COST ANALYSIS TOOL									
	PROSPECTIVE INVESTMENT WORKSHEET SUMMARY									
0	CM123R24\LCATR088\RESULTS1									
1	OUTPUT - WORKSHEET D									
2	SHEET 10 of 10									
3	COMPANY: CINCINNATI BELL TEL									
4	CITY / AREA: CINCINNATI									
5	STATE / PROV: OHIO									
6	JOB IDENT: CINCINNATI									
7	CIRCUIT DESIGN: MELDED FOMUX									
8	LOOP SPAN DIVISION: ALL LOOP SPANS									
9	SERVICE CLASS: BAND 1 - RESIDENCE LIN									
10	TOTAL LOOP LENGTH: 7184 FEET									
11	LCAT Rel: 1.0.4									
12	Issued: 7/31/95									
13	STUDY YR: 1996									
14	TEST CASE: 1									
15	RUN DATE: 22-Jan-97									
16	TIME: 13:37									
17	Technology Type Mix: 1.0000									
18	UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY									
19	PLANT NAME ----- FEEDER ----- DISTRIBUTION NETWORK									
20	SEG. NAME PRIMARY EXTENSION SUB- INTERFACE TOTAL LOOP									
21	EQPT CODE									
22	PLANT									
23	ITEM DESCRIPTION									
24	7 SHARED RESOURCES									
25	8 LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
26	9 BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
27	10 BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
28	11 INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
29	12 AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
30	13 BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
31	14 UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
32	15 CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
33	16 CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
34	17 CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
35	18 CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
36	19 CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
37	20 CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
38	21 AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
39	22 BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
40	23 UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
41	24 CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
42	25 MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
43	26 POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
44	27 CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
45	28									
46	29 DIRECT RESOURCES									
47	30 LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
48	31 BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
49	32 BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45	\$ 2.45	\$ 2.4513
50	33 INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
51	34 AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.49	\$ 2.48	\$ 0.00	\$ 2.97	\$ 2.97	\$ 2.9700
52	35 BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.96	\$ 0.00	\$ 0.96	\$ 0.96	\$ 0.9600
53	36 UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 2.97	\$ 1.37	\$ 0.00	\$ 4.34	\$ 4.34	\$ 4.3400
54	37 CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
55	38 CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
56	39 CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
57	40 CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
58	41 CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
59	42 CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
60	43 AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
61	44 BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
62	45 UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
63	46 CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
64	47 MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
65	48 POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.12	\$ 0.59	\$ 0.00	\$ 0.71	\$ 0.71	\$ 0.7100
66	49 CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 1.05	\$ 0.49	\$ 0.00	\$ 1.54	\$ 1.54	\$ 1.5400
67	50									
68	51 SPAN SUMMARY		\$ 0.00	\$ 0.00	\$ 4.63	\$ 5.89	\$ 2.45	\$ 12.97	\$ 12.97	\$ 12.97
69	52									
70	53									
71	54									
72	55									

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C:\123R24\LCAT\CALC\CUTECH

RUN - SUB PRI

LAST UPDATE

22-Jan-97

10:23

LOOP COST ANALYSIS TOOL**Belcore** (R)

LCAT

Release: 1.0.4

Issued: 7/31/95

FEEDER SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO) RESIDENCE LINE STUDY 0 - 12000 FEET INTR

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST CASE	1
FR / DS	FLAT RATE	#BANDS	0
SVC LEVEL	NARBAND	#CKTS	1
CST METH	UN INCR	INV LEVEL	ANN COST

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CM:23R24/LCAT/CALC/CUTCH
SUB_PRI - WORKSHEET
Sheet: 1 of 3

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS
CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY
SERVICE CLASS: BAND 1 - RESIDENCE LINE

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 13:32

SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM TABLE 2		FROM TABLE 4		CABLE COMPONENTS				
		RELATIVE MIX OF TYPE OF CA. PLAN	LENGTH SUBSET BY TYPE OF PLANT [C=A*B]	MIL CABLE DESIGN INVEST. PER PAIR FOOT [D]	CABLE INVESTMENT PER PAIR [E=C*D]	WEIGHTED TERMINAL INVESTMENT [UI*DTC]	AIR DRYER INVESTMENT PER PAIR	DROP WIRE ADJUSTMENT PER PAIR [E*fctr]	WEIGHTED DROP WIRE ADJUSTMENT PER PAIR [UI*DTC]	
6081	AERIAL	0.120000	729.72	0.012100	8.83		0.00	0.00		
MELDED GAUGE/S/ COPPER	BURIED	0.000000	0.00	0.016600	0.00		0.00	0.00		
CABLE	UNDERGRND	0.880000	5351.28	0.010900	58.33		0.00	0.00		
CHECK =		1.000000								

23 ADDITIONAL CALCULATIONS FOR CENTRAL OFFICE INVESTMENTS
24 INVESTMENT PER CIRCUIT TERMINATION
25 (CO CONN) CONNECTORS (coi77c) = \$ 0.00
26 inv / unit lgr: inv rtn fctr: 0.000000 0.253000
27 POLE LINE FACTOR = \$ 3.72
28 POLE LINE INVESTMENT =
29 (UTIL AERIAL INVEST x PL)
30
31 UG CONDUIT FACTOR = 0.000000 0.516500
32 CONDUIT INVESTMENT = \$ 50.21
33 (UTIL UNDGRND INVEST x UC)
34
35
36
37
38
39
40
41
42
43
44
45
46
47 FOOTNOTES
48 NOTE 1: APPARENT INCONSISTANCIES MAY BE CAUSED BY COMPUTER ROUNDING.
49 NOTE 2: E * fctr = INVESTMENT x DROP WIRE ADJUSTMENT FACTOR (MISCA or MISCB)
50 NOTE 3: UI * DTC = UNIT INVESTMENT x PROBABILITY OF OCCURANCE.
51 NOTE 4: MATRIX 2 & 4 DEVELOPMENT SHOWN ON WORKSHEET C (#5,#6).
52
53
54
55

MISC. COMMON EQPT. & POWER FACTOR = 0.112700
MCE&P INVESTMENT (CO CONN x FACTOR) = \$ 0.00
LAND FACTOR = 0.00500
LAND NVST (CO CONN + MCE&P) x FACTOR = \$ 0.00
BUILDING FACTOR = 0.13160
BLDG NVST (CO CONN + MCEP) x FACTOR = \$ 0.00
PERCENT OF CO CONN AT DIGITAL SWITCHES 100.0000
PERCENT OF CO CONN AT ANALOG SWITCHES 0.0000

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LOOP COST ANALYSIS TOOL										Bellcore (R)	
ACCOUNT INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS										Issue Date: 7/31/95	
FACILITY TYPE: COPPER CABLE										STUDY YR: 1996	
CIRCUIT SEGMENT: WELDED GAUGES/SUB-PRIMARY										TEST CASE: 1	
SERVICE CLASS: BAND 1 - RESIDENCE LINE										RUN DATE: 22-Jan-97	
										TIME: 13:32	
PLANT ITEM	PLANT ACCT CODE	FIXED VARI CAT	RESOURCE ALLOCATION T	1996 UNIT INVESTMENT BY ACCOUNT COST EQUATION [F]	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F*G]	ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]	
LAND	20C	F	SHARED	0.00				1.0000			
BUILDING	10C	F	SHARED	0.00				1.0000			
BLDG ENTRANCE CABLE	12C	V	DIRECT					1.0000			
INTRABLDG CABLE	52C	V	DIRECT					0.3500			
AERIAL CABLE (COPPER)	22C	V	DIRECT	8.83	1		\$ 9	0.6000		\$ 15	
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00				0.6000			
UNDERGROUND (CU) CA.	5C	V	DIRECT	58.33	1		\$ 58	0.6000		\$ 97	
CO EQPT - LOW CAP TERM	257C	F	DIRECT					0.7000			
CO EQPT - LOW CAP CHAN	257C	V	DIRECT					0.7000			
CO EQPT - HI CAP TERM	857C	F	DIRECT					1.0000			
CO EQPT - HI CAP CHAN	857C	F	DIRECT					1.0000			
CO EQPT - ANALOG SW	77C	V	DIRECT	0.00				1.0000			
CO EQPT - DIGITAL SW	377C	V	DIRECT	0.00				1.0000			
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.3300			
BURIED CABLE (FIBER)	845C	F	DIRECT					0.3300			
UNDERGROUND (FO) CA.	85C	F	DIRECT					0.3300			
CONNECTORS	57C	V	DIRECT					1.0000			
MISC. COM EQP & PWR	57C	V	SHARED	0.00				1.0000			
POLE LINE	1C	F	DIRECT	3.72	1			1.0000		\$ 4	
CONDUIT	4C	F	DIRECT	50.21	1			1.0000		\$ 50	
TOTALS										\$ 0	\$ 166
										\$ 0	\$ 166
										culprivity	

FOOTNOTES

NOTE 1: APPARENT INCONSISTENCIES BETWEEN COLUMNS F AND H (H) ARE CAUSED BY COMPUTER ROUNDING.

NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY OF CABLE COMPONENTS:

AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE ADJ; BURIED CABLE, ... ETC;

CO EQPT - ESS = CONNECTORS + MISC. CP&E.

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C:\123R24\LCATCALC\CLUTECH
SUB_PRI - WORKSHEET
Sheet 1 of 3

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

LOOP COST ANALYSIS TOOL
PROSPECTIVE AND ANNUAL COSTS WORKSHEET
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS
FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY

Bellcore (R)
LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 13:32

SERVICE CLASS: BAND 1 - RESIDENCE LINE

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENTS BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
8 LAND	20C	1.0000			0.2322				
9 BUILDING	10C	1.0000			0.2937				
10 BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
11 INTRABLDG CABLE	52C	1.0000			0.3922				
12 AERIAL CABLE (COPPER)	22C	1.0000		\$ 15	0.4033		\$ 5.93		\$ 0.49
13 BURIED CABLE (COPPER)	45C	1.0000			0.3457				
14 UNDERGROUND (CU) CA.	5C	1.0000		\$ 97	0.3663		\$ 35.61		\$ 2.97
15 CO EQPT - LOW CAP TERM	257C	1.0000			0.3881				
16 CO EQPT - LOW CAP CHAN	257C	1.0000			0.3881				
17 CO EQPT - HI CAP TERM	857C	1.0000			0.3881				
18 CO EQPT - HI CAP CHAN	857C	1.0000			0.3881				
19 CO EQPT - ANALOG SW	77C	1.0000			0.0000				
20 CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
21 AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
22 BURIED CABLE (FIBER)	845C	1.0000			0.2724				
23 UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
24 CONNECTORS	57C	1.0000			0.3881				
25 MISC. COM EQP & PWR	57C	1.0000			0.3881				
26 POLE LINE	1C	1.0000		\$ 4	0.3807				\$ 0.12
27 CONDUIT	4C	1.0000		\$ 50	0.2521				\$ 1.05
28									
29	SUBTOTALS		\$ 0	\$ 166		\$ 0.00	\$ 55.63	\$ 0.00	\$ 4.63
30	TOTALS			\$ 166			\$ 55.63		\$ 4.63
31				culpinvsy			culpac		culpmrc

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47 FOOTNOTES

- 48 NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
49 NOTE 2: AN INVESTMENT-ONLY STUDY NEGATES ANNUAL COST COMPUTATION.
50 THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.

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CM123R24\LCAT\CALC\CUPRGN
RUN - CDLC PLANT

LAST UPDATE
22-Jan-97
10:24

LOOP COST ANALYSIS TOOL

Bellcore^(TM)

LCAT

Release: 1.0.4

Issued: 8/31/95

FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO) RESIDENCE LINE STUDY 0 - 12000 FEET INTRASTATE

CURRENT TEST PLAN :	CURRENT JOB IDENT.	CINCINNATI
BASIS	NETWORK	TEST CASE
FR / DS	FLAT RATE	#BANDS
SVC LEVEL	NARBAND	#CKTS
CST METH	UN INCR	INV LEVEL
		ANN COST

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LOOP COST ANALYSIS TOOL										Bellcore	
BASIC INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET										Issue Date: 8/31/95	
FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY										STUDY YR: 1996	
FACILITY TYPE: COPPER DIG LOOP CRR										TEST CASE: 1	
CIRCUIT DESIGN: T C										DATE: 22-Jan-97	
SERVICE CLASS: BAND 1 - RESIDENCE LINE										TIME: 01:33 PM	
COMPANY: CINCINNATI BELL TEL CITY / AREA: OHIO STATE / PROV: CINCINNATI											
7184 cur. length 6081 outside length t = 0.125 pgrfactor											
SEGMENT LENGTH IN FEET		TYPE OF CABLE	RELATIVE MIX OF TYPE OF	EFFECTIVE LENGTH SUBSET BY TYPE	WELDED INVEST. PER UNIT FOOT	CABLE INVESTMENT PER CHAN	WEIGHTED TERMINAL INVESTMENT [UI*DTIC]	AIR DRYER INVESTMENT PER PAIR [E*fcrr]	DROP WIRE ADJUSTMENT PER PAIR [E*fcrr]	WEIGHTED DROP WIRE INVESTMENT PER PAIR [UI*DTIC]	
[A]		PLANT	CA PLANT	OF PLANT	[D]	[E=C*D]	[UI*DTIC]	[E*fcrr]	[E*fcrr]	[UI*DTIC]	
0		AERIAL	0.120000	0.00	0.024200	\$ 0.00		\$ 0.00			
CO TO RT LINK											
ON		BURIED	0.000000	0.00	0.033200	\$ 0.00		\$ 0.00			
COPPER CABLE DLC											
24.00 GA. FACILITIES		UNDERGRND	0.880000	0.00	0.021800	\$ 0.00		\$ 0.00			
			1.000000								
OUTSIDE PLANT LOADINGS (NOTE 5): 18 ADJUST. / LOAD FACTORS TO AERIAL PFI 19 ADJUST. / LOAD FACTORS TO BURIED PFI 20 ADJUST. / LOAD FACTORS TO UGD PFI 21 DLC EQUIPMENT INVEST. (NOTE 2): 22 INT DLC EQUIP INVEST. (CU COMUX) = intdlcco \$ 0.00 23 INT DLC EQUIP INVEST. (CU RTMUX) = intdlcrt \$ 51.57 24 UNIV DLC EQUIP INVEST. (CU COMUX) = unvdlcco \$ 12.14 25 UNIV DLC EQUIP INVEST. (CU RTMUX) = unvdlcrt \$ 51.57 26 DLC EQUIP INVEST. (CU LINE) = dlccol \$ 0.00 27 28 29 CONDUIT INVEST. FOR DLC CEV FACILITIES = conpgnvt \$ 4.17 30 OTHER INVESTMENT inv / unit lgth : inv rtm fcrr : 31 POLE LINE FACTOR (PLF) = 0.0000 0.2530 32 POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) = \$ 0.00 33 UGD CONDUIT FACTOR (UCF) = 0.0000 0.5165 34 CONDUIT INVESTMENT (UTIL UNDGRD INVST x UCF) = \$ 0.00 35 36 37 38 39 40 41 42 43 44 45 46 FOOTNOTES 47 NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING. 48 NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED 49 OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED. 50 NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSEET B; FOR 4 WIRE SERVICES, TABLE 4 IS MULT BY 2. 51 NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT. 52 NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT 53 ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E. 54 55											
EQUIPMENT INVESTMENT LOADINGS INVST. PER CHAN. FOR DLC TERM (co conn) = \$ 0.00 MISC. COM. EQPT. & POWER FACTOR FOR DLC (rem) = 0.1127 MISC. COM. EQPT. & POWER FACTOR FOR DLC (c.o.) = 0.1127 MCE&P INVST. (CU REMMUX x MCEP) = \$ 15.42 MCE&P INVST. (CDLCMUX x MCEP) = \$ 0.00 MCE&P INVST. (CO CONN x MCEP) = \$ 0.00 OTHER INVESTMENT LAND FACTOR FOR DLC (LANDf rem) = 0.0056 LAND FACTOR FOR DLC (LANDf c.o.) = 0.0056 LAND INVST. (CU COMUX+MCEP) x LANDf = \$ 0.85 LAND INVST. ((CO CONN+MCEP) x LANDf) = \$ 0.00 BUILDING FACTOR FOR DLC (BLDGf rem.) = 0.1316 BUILDING FACTOR FOR DLC (BLDGf c.o.) = 0.1316 BLDG INVST. (CDLCMUX+MCEP) x BLDGf = \$ 20.04 BLDG INVST. ((CO CONN+MCEP) x BLDGf) = \$ 0.00 LOOP TOPOLOGY AVERAGE NUMBER OF HUBS ADDITIONAL LENGTH OF RING OSP REQUIRED MIX OF CENT. OFC. ANALOG INTFC 0.0000 MIX OF CENT. OFC. DIGITAL INTFC 1.0000 MIX OF UNIVERSAL DLC INTFC 0.0000 MIX OF INTEGRATED DIGITAL INTFC 1.0000											

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CDLC PLANT - WORKSHEET 1

Sheet 2 of 3

LOOP COST ANALYSIS TOOL

ACCOUNT INVESTMENT WORKSHEET

CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET

FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY

FACILITY TYPE : COPPER DIG LOOP CRR

CIRCUIT DESIGN : T1C

SERVICE CLASS : BAND 1 - RESIDENCE LINE

Belcore

LCAT Release : 1.0.4

Issue Date : 8/31/95

STUDY YR : 1996

TEST CASE :

DATE : 22-Jan-97

TIME : 21:33 PM

COMPANY: CINCINNATI BELL TEL

CITY / AREA : OHIO

STATE / PROV : CINCINNATI

PLANT ITEM	PLANT ACCT CODE	FIXED VARI SUNK	RESOURCE ALLOCATION	1996 UNIT INVESTMENTS BY ACCOUNT	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL UTILIZATION		ADMIN. UTIL LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL UTILIZATION	
				COST EQUATION [F]		SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]
LAND	20C	F	SHARED	0.85	0			1.0000		
BUILDING	10C	F	SHARED	20.17	0			1.0000		
BLDG ENTRANCE CABLE	12C	---	---		0			1.0000		
INTRABLDG CABLE	52C	---	---		0			0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT	0.00	0			0.6000		
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00	0			0.6000		
UNDERGROUND (CU) CA.	5C	V	DIRECT	4.17	0			0.6000		
CO EQPT - P GAIN TERM	257C	F	DIRECT	66.99	0			0.7000		
CO EQPT - P GAIN CHAN	257C	V	DIRECT	85.28	0			0.7000		
CO EQPT - FO MUX TERM	857C	F	DIRECT		0			1.0000		
CO EQPT - FO MUX CHAN	857C	F	DIRECT		0			1.0000		
CO EQPT - ESS - ANALOG	77C	V	DIRECT	0.00	0			1.0000		
CO EQPT - ESS - DIGITAL	377C	V	DIRECT	0.00	0			1.0000		
AERIAL CABLE (FIBER)	822C	F	DIRECT		0			0.3300		
BURIED CABLE (FIBER)	845C	F	DIRECT		0			0.3300		
UNDERGROUND (FO) CA.	85C	F	DIRECT		0			0.3300		
CONNECTORS	57C	V	DIRECT		0			1.0000		
MISC. COM EQP & PWR	57C	V	SHARED	0.00	0			1.0000		
POLE LINE	1C	F	DIRECT	0.00	0			1.0000		
CONDUIT	4C	F	DIRECT	0.00	0			1.0000		
TOTALS										

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FEEDTIV

FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.

NOTE 2: CO EQPT - CKT PG TERM = PG EQ INV TERM + MC&P INV

CO EQPT - CKT PG CHAN = PG EQ INV CHAN + ORB INV

CO EQPT - ANALOG/DIGITAL ESS = C.O. CONN INV + MC&P INV

CM123R24\LCAT\CALC\CUPRGN		LOOP COST ANALYSIS TOOL				Bellcore	
CDLC_PLANT - REPORT 14.1		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release: 1.0.4	
Sheet 1 of 3		COMPANY: CINCINNATI BELL TEL. FACILITY SEGMENT: PRIMARY FEEDER SEGMENT				Issue Date: 6/31/95	
CITY / AREA: CINCINNATI		CIRCUIT DESIGN: 1 COPPER DIG LOOP CTR				STUDY YR: 1995	
STATE / PROV: OHIO		SERVICE CLASS: BAND T - RESIDENCE LINE				TEST CASE: DATE: 22-Jan-97	
						TIME: 01:34 PM	
logic-14a 1995 UNIT MONTHLY RECURRING COST BY ACCOUNT							
PLANT		BAND	VIX	AVG	(SEE NOTE)		
ACCT		ACCT	AVG	1.0000	TOTAL		
CODE LGTH		CODE	LGTH	7184	AVG. WEIGHTED		
SEG LGTH		SEG LGTH		0	INVESTMENT		
					0		
SHARED RESOURCES							
LAND	20C						\$ 0.00
BUILDING	10C						\$ 0.00
BLDG ENTRANCE CABLE	12C						\$ 0.00
INTRABLDG CABLE	52C						\$ 0.00
AERIAL CABLE (COPPER)	22C						\$ 0.00
BURIED CABLE (COPPER)	45C						\$ 0.00
UNDERGROUND (CU) CA.	5C						\$ 0.00
CO EQPT - P GAIN TERM	257C						\$ 0.00
CO EQPT - P GAIN CHAN	257C						\$ 0.00
CO EQPT - FO MUX TERM	857C						\$ 0.00
CO EQPT - FO MUX CHAN	857C						\$ 0.00
CO EQPT - ANALOG SW	77C						\$ 0.00
CO EQPT - DIGITAL SW	377C						\$ 0.00
AERIAL CABLE (FIBER)	822C						\$ 0.00
BURIED CABLE (FIBER)	845C						\$ 0.00
UNDERGROUND (FO) CA.	85C						\$ 0.00
CONNECTORS	57C						\$ 0.00
MISC. COM EQP & PWR	57C						\$ 0.00
POLE LINE	1C						\$ 0.00
CONDUIT	4C						\$ 0.00
DIRECT RESOURCES							
LAND	20C						\$ 0.00
BUILDING	10C						\$ 0.00
BLDG ENTRANCE CABLE	12C						\$ 0.00
INTRABLDG CABLE	52C						\$ 0.00
AERIAL CABLE (COPPER)	22C						\$ 0.00
BURIED CABLE (COPPER)	45C						\$ 0.00
UNDERGROUND (CU) CA.	5C						\$ 0.00
CO EQPT - P GAIN TERM	257C						\$ 0.00
CO EQPT - P GAIN CHAN	257C						\$ 0.00
CO EQPT - FO MUX TERM	857C						\$ 0.00
CO EQPT - FO MUX CHAN	857C						\$ 0.00
CO EQPT - ANALOG SW	77C						\$ 0.00
CO EQPT - DIGITAL SW	377C						\$ 0.00
AERIAL CABLE (FIBER)	822C						\$ 0.00
BURIED CABLE (FIBER)	845C						\$ 0.00
UNDERGROUND (FO) CA.	85C						\$ 0.00
CONNECTORS	57C						\$ 0.00
MISC. COM EQP & PWR	57C						\$ 0.00
POLE LINE	1C						\$ 0.00
CONDUIT	4C						\$ 0.00
SPAN SUMMARY		0.00	0.00	0.00	0.00	0.00	0.00
AVG. WTD. SPAN SUMMARY		0.00	0.00	0.00	0.00	0.00	0.00
NOTE: [sum(INV _{ACCT} * MIX(MANU))]]							

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CM123R24\LCATCALC\DIST

Bellcore (R)

RUN - DIST PLNT

LCAT

Release: 1.0.4

Issued: 8/31/95

LAST UPDATE

22-Jan-97

10:21

LOOP COST ANALYSIS TOOL**DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY**

STUDY NAME: 1996 BAND 1 (OHIO) RESIDENCE LINE STUDY 0 - 12000 FEET INT

CURRENT TEST PLAN :

CURRENT JOB IDENT: CINCINNATI

BASIS	NETWORK	TEST CASE	1
FR / DS	FLAT RATE	#BANDS	0
SVC LEVEL	NARBAND	#CKTS	1
CST METH	UN INCR	INV LEVEL	ANN COST

.....your run is finished

PROPRIETARY - NOT FOR USE OR DISCLOSURE OUTSIDE Bellcore WITHOUT LICENSED PERMISSION

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LOOP COST ANALYSIS TOOL										Bellcore (R)	
BASIC INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL										Issue Date: 8/31/95	
FACILITY TYPE: COPPER CABLE										STUDY YR: 1995	
CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-COLLOC)										TEST CASE: 1	
SERVICE CLASS: BAND 1 - RESIDENCE LINE										RUN DATE: 22-Jan-97	
										TIME: 13:29	
COMPANY: CINCINNATI BELL TEL.											
CITY/AREA: CINCINNATI											
STATE/PROV: OHIO											
SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM - TABLE 2 - RELATIVE MIX OF TYPE OF CA. PLANT	LENGTH SUBSET BY TYPE OF PLANT	FROM - TABLE 4 - CABLE INVESTMENT PER PAIR FOOT	CABLE INVESTMENT PER PAIR	(NOTE 4) WEIGHTED TERMINAL INVESTMENT	AIR DRYER INVESTMENT PER PAIR	DROP WIRE ADJUSTMENT PER PAIR	(NOTE 4) WEIGHTED DROP WIRE INVESTMENT		
[A]		[B]	[C=A*B]	[D]	[E=C*D]		[F=E*fctr]	[F=E*fctr]			
1103.0	AERIAL	0.590000	650.8	0.039700	25.84		0.00	0.00			
CONSIDERS:	BURIED	0.160000	176.5	0.065700	11.59		0.00	0.00			
MELDED											
COPPER	UNDERGRND	0.250000	275.8	0.056900	15.69		0.00	0.00			
CABLE											
Check =		1.000000	1103.0								
OUTSIDE PLANT LOADINGS (NOTE 4)											
DROP WIRE ADJUSTMENT:										AIR DRYER LOADINGS:	
AERIAL CA. =	0.0000					0.0000					
BURIED CA. =	0.0000					0.0000					
UNDERGRND =	0.0000					0.0000					
OTHER INVESTMENT											
POLE LINE FACTOR (PLF) =			inv / unit lgth:	0.0000		inv rtn fctr:	0.0000				
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =				\$ 18.68			0.5165				
UG CONDUIT FACTOR (UCF) =				0.0000							
CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCF) =				\$ 23.15							
FOOTNOTES											
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.											
NOTE 2: TABLE 4 & 6 DEVELOPMENT SHOWN ON WORKSHEET A.											
NOTE 3: DESIGN AT THIS DISTANCE HAS NO LOAD COILS; THEREFORE, TERMINAL INVESTMENT IS ZERO											
NOTE 4: BY FCC MANDATE, THIS INVESTMENT IS INCORPORATED INTO THE APPROPRIATE CABLE ACCOUNT											
(SEE BUILDING AND TERMINATING INVESTMENT WORKSHEET)											

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0123R24/LCAT/CALC/DIST
DIST_PLNT - WORKSHEET A
Sheet 3 of 3

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

LOOP COST ANALYSIS TOOL
PROSPECTIVE AND ANNUAL COSTS WORKSHEET
SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL
FACILITY TYPE : COPPER CABLE
CIRCUIT SEGMENT : DISTRIBUTION PLANT (NON-DLC NON-COLLOC)

SERVICE CLASS : BAND 1 - RESIDENCE LINE

Bellcore®
LCAT Release: 1.0.4
Issue Date : 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE : 22-Jan-97
TIME : 13:29

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED	DIRECT		SHARED	DIRECT	SHARED	DIRECT
			RESOURCES	RESOURCES		RESOURCES	RESOURCES	RESOURCES	RESOURCES
			[M=K*L]	[M'=K'*L]		[P=M*N]	[P'=M'*N]	[R=P/12]	[R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000		\$ 74	0.4033		\$ 29.77		\$ 2.48
BURIED CABLE (COPPER)	45C	1.0000		\$ 33	0.3467		\$ 11.49		\$ 0.96
UNDERGROUND (CU) CA.	5C	1.0000		\$ 45	0.3663		\$ 16.42		\$ 1.37
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	657C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	657C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2963				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000		\$ 19	0.3807		\$ 7.11		\$ 0.59
CONDUIT	4C	1.0000		\$ 23	0.2521		\$ 5.84		\$ 0.49
TOTALS			\$ 0	\$ 194		\$ 0.00	\$ 70.62	\$ 0.00	\$ 5.89

dstshrinvdstdirinv

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distmrc

FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.

NOTE 2: AN INVESTMENT-ONLY STUDY NEGATES ANNUAL COST COMPUTATION, THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.

C:\123R24\LCAT\CALC.DIST
DIST_PLNT - WORKSHEET B
Sheet 1 of 3

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OH:O

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 1 - RESIDENCE LINE

Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 13:29

TYPE OF PLANT ITEM	UNIT PLANT INVEST. [A]	PROB. OF OCCURANCE [B]	WEIGHTED TERMINAL INVESTMENT [C=A*B]
INTRABLDG CABLE	\$ 0.00	0.0000	\$ 0.00
BLDG ENTRANCE CABLE	\$ 75.00	1.0000	\$ 75.00
AERIAL TERMINAL	\$ 0.00	0.0000	\$ 0.00
BURIED TERMINAL	\$ 0.00	0.0000	\$ 0.00
AERIAL DROP WIRE	\$ 0.00	0.0000	\$ 0.00
BURIED DROP WIRE	\$ 0.00	0.0000	\$ 0.00
COAXIAL DROP	\$ 0.00	0.0000	\$ 0.00

POLE LINE FACTOR (PLF) = $\frac{\text{Total length}}{\text{from invest.}}$ = $\frac{0.0000}{0.2530}$

POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) = \$ 0.00

FOOTNOTES

NOTE 1: FOR 4 WIRE SERVICES ONLY, THE ABOVE PLANT INVESTMENTS HAVE BEEN DOUBLED.

NOTE 2: THIS DATA IS USED IN WORKSHEET E FOR CALCULATION OF PAIR GAIN INVESTMENT AND MONTHLY COSTS

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CA123R24\LCAT\CALC\DIST DIST. PLNT - WORKSHEET B Sheet 3 of 3			LOOP COST ANALYSIS TOOL PROSPECTIVE AND ANNUAL COSTS WORKSHEET						Bellcore [®]		
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO			FACILITY TYPE: COPPER CABLE CIRCUIT SEGMENT: SERVICE ACCESS			Release: 1.0.4 STUDY YR: 1996 TEST CASE: 1 RUN DATE: 22-Jan-97 TIME: 13:29					
			SERVICE CLASS: BAND 1 - RESIDENCE LINE								
		1996 UNIT LOOP INVESTMENT BY ACCOUNT	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT						
PLANT ITEM	PLANT ACCT CODE	1996 TO TPI [L]	SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]	ANNUAL COST FACTOR [N]	SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]		
9	LAND	20C	1.0000		0.2322						
10	BUILDING	10C	1.0000		0.2937						
11	BLDG ENTRANCE CABLE	12C	1.0000		\$ 75	0.3922	\$ 29.42		\$ 2.45		
12	INTRABLDG CABLE	52C	1.0000		0.3922						
13	AERIAL CABLE (COPPER)	22C	1.0000		0.4033						
14	BURIED CABLE (COPPER)	45C	1.0000		0.3457						
15	UNDERGROUND (CU) CA.	5C	1.0000		0.3663						
16	CO EQPT - P GAIN TERM	257C	1.0000		0.3881						
17	CO EQPT - P GAIN CHAN	257C	1.0000		0.3881						
18	CO EQPT - FO MUX TERM	857C	1.0000		0.3881						
19	CO EQPT - FO MUX CHAN	857C	1.0000		0.3881						
20	CO EQPT - ANALOG SW	77C	1.0000		0.0000						
21	CO EQPT - DIGITAL SW	377C	1.0000		0.3458						
22	AERIAL CABLE (FIBER)	822C	1.0000		0.2983						
23	BURIED CABLE (FIBER)	845C	1.0000		0.2724						
24	UNDERGROUND (FO) CA.	85C	1.0000		0.2689						
25	CONNECTORS	57C	1.0000		0.3881						
26	MISC. COM EQP & PWR	57C	1.0000		0.3881						
27	POLE LINE	1C	1.0000		0.3807						
28	CONDUIT	4C	1.0000		0.2521						
TOTALS			\$ 0	\$ 75		\$ 0.00	\$ 29.42	\$ 0.00	\$ 2.45		
				\$ 75			\$ 29.42		\$ 2.45		

FOOTNOTES
 NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
 NOTE 2: AN INVESTMENT-ONLY STUDY NEGATES ANNUAL COST COMPUTATION, THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.

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C:\123R24\LCAT\CALC\DIST
DIST_PLNT - WORKSHEET B
Sheet 1 of 3

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET

Bellicore (R)

LCAT

Release: 1.0.4

1996

STUDY YR:

TEST CASE:

RUN DATE:

TIME:

22-Jan-97

13:30

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 1 - RESIDENCE LINE

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TYPE OF PLANT ITEM	UNIT PLANT INVEST (A)	PROB. OF OCCURANCE (B)	WEIGHTED TERMINAL INVESTMENT (C=A*B)
INTRABLDG CABLE	\$ 0.00	0.0000	\$ 0.00
BLDG ENTRANCE CABLE	\$ 75.00	1.0000	\$ 75.00
AERIAL TERMINAL	\$ 0.00	0.0000	\$ 0.00
BURIED TERMINAL	\$ 0.00	0.0000	\$ 0.00
AERIAL DROP WIRE	\$ 0.00	0.0000	\$ 0.00
BURIED DROP WIRE	\$ 0.00	0.0000	\$ 0.00
COAXIAL DROP	\$ 0.00	0.0000	\$ 0.00

POLE LINE FACTOR (PLF) = $\frac{\text{from length}}{0.0000}$ from invest.: 0.2530
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) = \$ 0.00

FOOTNOTES

NOTE 1: FOR 4 WIRE SERVICES ONLY, THE ABOVE PLANT INVESTMENTS HAVE BEEN DOUBLED.
NOTE 2: THIS DATA IS USED IN WORKSHEET E FOR CALCULATION OF PAIR GAIN INVESTMENT AND MONTHLY COSTS

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CA123R24/LCATCALC/DIST
DIST_PLNT - WORKSHEET B
Sheet 2 of 3

LOOP COST ANALYSIS TOOL ACCOUNT INVESTMENT WORKSHEET

Bellcore[®]
LCAT

Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 13:30

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 1 - RESIDENCE LINE

PLANT ITEM	PLANT ACCT CODE	CAT. FIXED VARI	RESOURCE ALLOCATION	1996 UNIT INVESTMENT BY ACCOUNT	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION	
				COST EQUATION [F]		SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F'*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]
9 LAND	20C	F	SHARED					1.0000		
10 BUILDING	10C	F	SHARED					1.0000		
11 BLDG ENTRANCE CABLE	12C	V	DIRECT	75.00	1		\$ 75	1.0000		\$ 75
12 INTRABLDG CABLE	52C	V	DIRECT	0.00				0.3500		
13 AERIAL CABLE (COPPER)	22C	V	DIRECT	0.00				0.3500		
14 BURIED CABLE (COPPER)	45C	V	DIRECT	0.00				0.3500		
15 UNDERGROUND (CU) CA.	5C	V	DIRECT					0.3500		
16 CO EQPT - P GAIN TERM	257C	F	DIRECT					0.7000		
17 CO EQPT - P GAIN CHAN	257C	V	DIRECT					0.7000		
18 CO EQPT - FO MUX TERM	857C	F	DIRECT					1.0000		
19 CO EQPT - FO MUX CHAN	857C	F	DIRECT					1.0000		
20 CO EQPT - ANALOG SW	77C	V	DIRECT					1.0000		
21 CO EQPT - DIGITAL SW	377C	V	DIRECT					1.0000		
22 AERIAL CABLE (FIBER)	822C	F	DIRECT					0.0000		
23 BURIED CABLE (FIBER)	845C	F	DIRECT					0.0000		
24 UNDERGROUND (FO) CA.	85C	F	DIRECT					0.0000		
25 CONNECTORS	57C	V	DIRECT					1.0000		
26 MISC. COM EQP & PWR	57C	V	SHARED					1.0000		
27 POLE LINE	1C	F	DIRECT	0.00				1.0000		
28 CONDUIT	4C	F	DIRECT					1.0000		
29										
30										
31										
32									\$ 0	\$ 75
33										\$ 75
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FOOTNOTES

NOTE 1: APPARENT INCONSISTENCIES BETWEEN COLUMNS F(F) AND H(H') ARE CAUSED BY COMPUTER ROUNDING.

NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY.

AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE; BURIED CABLE, ... ETC;
CO EQPT - ESS = CONNECTORS + MISC. CP&E.

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CA123R24 LCATCALC.DIST
DIST_PLANT - WORKSHEET B
Sheet 3 of 3

LOOP COST ANALYSIS TOOL PROSPECTIVE AND ANNUAL COSTS WORKSHEET

Belcore[®]

LCAT

Release: 1.0.4

STUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 13:30

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 1 - RESIDENCE LINE

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED	DIRECT		SHARED	DIRECT	SHARED	DIRECT
			RESOURCES [M=K*L]	RESOURCES [M'=K'*L]		RESOURCES [P=M*N]	RESOURCES [P'=M'*N]	RESOURCES [R=P/12]	RESOURCES [R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000		\$ 75	0.3922		\$ 29.42		\$ 2.45
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000			0.3863				
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2889				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000			0.3807				
CONDUIT	4C	1.0000			0.2521				

TOTALS

bctshrinvs bctdirinv

\$ 0 \$ 75
\$ 75
bctinvsy

CONFIDENTIAL
NOTICE: MATERIAL GIVEN
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

\$ 0.00 \$ 29.42 \$ 2.45
\$ 29.42 \$ 2.45
bctann bctmrc

FOOTNOTES

- NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.
NOTE 2: AN INVESTMENT - ONLY STUDY NEGATES ANNUAL COST COMPUTATION.
THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.

C:\123R24\LCAT\CALC\DIST		LOOP COST ANALYSIS TOOL				Bellcore (R)	
DIST PLNT - REPORT 14A		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release: 1.0.4	
Sheet 1 of 3						Issue Date: 8/31/95	
COMPANY: CINCINNATI BELL TEL		FACILITY TYPE: COPPER CABLE				STUDY YR: 1996	
CITY / AREA: CINCINNATI		CIRCUIT SEGMENT: DISTRIBUTION PLANT / NON-DLC, NON-COLLOC				TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - RESIDENCE LINE				RUN DATE: 22-Jan-97	
						TIME: 13:30	
logic-14a		1996 UNIT MONTHLY RECURRING COST BY ACCOUNT				(See Note)	
BAND		0				TOTAL	
MIX		1.0000				AVG. WEIGHTED	
AVG.						INVESTMENT	
LGTH.		7184					
SEG. LGTH.		1103.0				1103	

SHARED RESOURCES							
7	LAND	20C					\$0.00
8	BUILDING	10C					\$0.00
9	BLDG ENTRANCE CABLE	12C					\$0.00
10	INTRABLDG CABLE	52C					\$0.00
11	AERIAL CABLE (COPPER)	22C					\$0.00
12	BURIED CABLE (COPPER)	45C					\$0.00
13	UNDERGROUND (CU) CA.	5C					\$0.00
14	CO EQPT - P GAIN TERM	257C					\$0.00
15	CO EQPT - P GAIN CHAN	257C					\$0.00
16	CO EQPT - FO MUX TERM	857C					\$0.00
17	CO EQPT - FO MUX CHAN	857C					\$0.00
18	CO EQPT - ANALOG SW	77C					\$0.00
19	CO EQPT - DIGITAL SW	377C					\$0.00
20	AERIAL CABLE (FIBER)	822C					\$0.00
21	BURIED CABLE (FIBER)	845C					\$0.00
22	UNDERGROUND (FO) CA.	85C					\$0.00
23	CONNECTORS	57C					\$0.00
24	MISC. COM EQP & PWR	57C					\$0.00
25	POLE LINE	1C					\$0.00
26	CONDUIT	4C					\$0.00
27							
28	DIRECT RESOURCES						
29	LAND	20C					\$0.00
30	BUILDING	10C					\$0.00
31	BLDG ENTRANCE CABLE	12C					\$0.00
32	INTRABLDG CABLE	52C					\$0.00
33	AERIAL CABLE (COPPER)	22C	\$ 2.48				\$2.48
34	BURIED CABLE (COPPER)	45C	\$ 0.96				\$0.96
35	UNDERGROUND (CU) CA.	5C	\$ 1.37				\$1.37
36	CO EQPT - P GAIN TERM	257C					\$0.00
37	CO EQPT - P GAIN CHAN	257C					\$0.00
38	CO EQPT - FO MUX TERM	857C					\$0.00
39	CO EQPT - FO MUX CHAN	857C					\$0.00
40	CO EQPT - ANALOG SW	77C					\$0.00
41	CO EQPT - DIGITAL SW	377C					\$0.00
42	AERIAL CABLE (FIBER)	822C					\$0.00
43	BURIED CABLE (FIBER)	845C					\$0.00
44	UNDERGROUND (FO) CA.	85C					\$0.00
45	CONNECTORS	57C					\$0.00
46	MISC. COM EQP & PWR	57C					\$0.00
47	POLE LINE	1C	\$ 0.59				\$0.59
48	CONDUIT	4C	\$ 0.49				\$0.49
49							
50							
51	SPAN SUMMARY		\$ 5.89	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
52	AVG. WTD. SPAN SUMMARY		\$ 5.89	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
53							
54	NOTE:		[sum(INV _{ACCT} BAND * MIX BAND)]				\$ 5.89
55							

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DIST PLNT - REPORT 14B

Sheet 1 of 1

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore®

LCAT

Release: 1.0.4

1996

STUDY YR:

TEST CASE:

RUN DATE:

TIME:

22-Jan-97

13:30

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIOCIRCUIT SEGMENT: SERVICE ACCESSSERVICE CLASS: BAND 1 - RESIDENCE LINE

1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

ALL

PLANT ITEM	PLANT ACCT CODE	BAND MIX AVG. LGTH.
SHARED RESOURCES		
LAND	20C	
BUILDING	10C	
BLDG ENTRANCE CABLE	12C	
INTRABLDG CABLE	52C	
AERIAL CABLE (COPPER)	22C	
BURIED CABLE (COPPER)	45C	
UNDERGROUND (CU) CA.	5C	
CO EQPT - P GAIN TERM	257C	
CO EQPT - P GAIN CHAN	257C	
CO EQPT - FO MUX TERM	857C	
CO EQPT - FO MUX CHAN	857C	
CO EQPT - ANALOG SW	77C	
CO EQPT - DIGITAL SW	377C	
AERIAL CABLE (FIBER)	822C	
BURIED CABLE (FIBER)	845C	
UNDERGROUND (FO) CA.	85C	
CONNECTORS	57C	
MISC. COM EQP & PWR	57C	
POLE LINE	1C	
CONDUIT	4C	
DIRECT RESOURCES		
LAND	20C	
BUILDING	10C	
BLDG ENTRANCE CABLE	12C	2.45
INTRABLDG CABLE	52C	
AERIAL CABLE (COPPER)	22C	
BURIED CABLE (COPPER)	45C	
UNDERGROUND (CU) CA.	5C	
CO EQPT - P GAIN TERM	257C	
CO EQPT - P GAIN CHAN	257C	
CO EQPT - FO MUX TERM	857C	
CO EQPT - FO MUX CHAN	857C	
CO EQPT - ANALOG SW	77C	
CO EQPT - DIGITAL SW	377C	
AERIAL CABLE (FIBER)	822C	
BURIED CABLE (FIBER)	845C	
UNDERGROUND (FO) CA.	85C	
CONNECTORS	57C	
MISC. COM EQP & PWR	57C	
POLE LINE	1C	
CONDUIT	4C	
SPAN TOTAL		\$ 2.45

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C:\123R24\LCATCALC\FOPRGN

Bellcore (R)

RUN - FO MUX

LAST UPDATE:

22-Jan-97

10:27

LOOP COST ANALYSIS TOOL

LCAT

Release: 1.0.4

Issued: 7/31/95

FEEDER SEGMENT COST MODEL - FIBER IN THE LOOP TECHNOLOGY

STUDY NAME: 1996 BAND 1 (OHIO) RESIDENCE LINE STUDY 0 - 12000 FEET INTRAST

CURRENT TEST PLAN :

CURRENT JOB IDENT. CINCINNATI		
BASIS	NETWORK	TEST CASE
FR / DS	FLAT RATE	# BANDS
SVC LEVEL	NARBAND	# CKTS
CST METH	UN INCR	MINV LEVEL
		ADJ COST

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LOOP COST ANALYSIS TOOL										Bellcore	
BASIC INVESTMENT WORKSHEET										LCAT Rel: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1995	
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 1 - RESID SERVICE LEVEL: NARBAND										LAST RUN: 22-Jan-97	
										TIME: 13:35	
C:\23R24\LCATCALC\FOPRGN.WK1 FO_MUX - WORKSHEET 3 Sheet 1 of 3 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
from star_wl: 6081 cur_stdlength 0 cur_pnlength from bw_mix: f = 1979.04 wtdeqymn											
CABLE COMPONENTS (NOTE 5)											
SEGMENT LENGTH IN FEET TYPE OF CABLE PLANT RELATIVE MIX OF TYPE OF CA PLANT EFFECTIVE LENGTH BY TYPE OF PLANT MLD CABLE DESIGN INVEST. PER PAIR FOOT WEIGHTED EFFECTIVE LGTH CABLE INVESTMENT [E=C*D] WEIGHTED TERMINAL INVESTMENT [U=DTC] AIR DRYER INVESTMENT PER PAIR [E*factr] DROP WIRE ADJUSTMENT PER PAIR [E*factr] DROP WIRE INVESTMENT PER PAIR [U*DTC]											
CO TO HUB LINK ON FIBER OPTIC FACILITIES UNDERGRND 0.180000 0.00 0.282300 0.00 0.00 0.00 0.00 1.000000											
EQUIPMENT INVESTMENT LOADINGS											
OUTSIDE PLANT LOADINGS (NOTE 5): ADJUST. / LOAD FACTORS TO AERIAL PFI ADJUST. / LOAD FACTORS TO BURIED PFI ADJUST. / LOAD FACTORS TO UGD PFI DLC EQUIPMENT INVEST. (NOTE 2) INT DLC EQUIP INVEST. (CU COMUX) = INT DLC EQUIP INVEST. (CU RTMUX) = UNIV DLC EQUIP INVEST. (CU COMUX) = UNIV DLC EQUIP INVEST. (CU RTMUX) = FIBER MUX EQUIP. INV. (FO COMUX) = FIBER MUX EQUIP. INV. (FO RTMUX) = OTHER INVESTMENT POLE LINE FACTOR (PLF) = POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) = UNDERGROUND CONDUIT FACTOR (PLF) = CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCF) = LOOP TOPOLOGY AVERAGE NUMBER OF HUBS ADDITIONAL LENGTH OF RING OSP REQUIRED MIX OF CENT. OFC. ANALOG INTFC MIX OF CENT. OFC. DIGITAL INTFC MIX OF UNIVERSAL DLC INTFC MIX OF CENT. OFC. INTEGRATED DLC INTFC											
DROP WIRE AIR DRYER NA 0.0000 NA 0.0000 NA 0.0000 TERM CHAN \$ 0.00 \$ 0.00 \$ 51.57 \$ 85.28 \$ 12.14 \$ 87.51 \$ 51.57 \$ 85.28 \$ 2.35 \$ 19.62 \$ 2.35 \$ 18.49 inv / unit lgth: inv rten factr: 0.0000 0.1965 \$ 0.00 0.0000 0.5232 \$ 0.00 STAR NA NA 0.0000 1.0000 0.0000 1.0000											
INVST. PER CHAN. FOR CA TERM (CA CONN) = \$ 0.00 MISC. COM. EQPT. & POWER FACTOR (DLCrem) = 0.1127 MISC. COM. EQPT. & POWER FACTOR (MUXrem) = 0.1127 MISC. COM. EQPT. & POWER FACTOR (OTHrem) = 0.1127 MISC. COM. EQPT. & POWER FACTOR (MUXc.o.) = 0.1127 MISC. COM. EQPT. & POWER FACTOR (DLCc.o.) = 0.1127 MISC. COM. EQPT. & POWER FACTOR (OTHc.o.) = 0.1127 MCE&P INVST. (MUXc.o.+DLCc.o.) x MCEPfc.o.) = \$ 2.48 MCE&P INVST. (MUXrem+DLCrem) x MCEPfc.o.) = \$ 17.77 MCE&P INVST. (CA CONN x MCEPfc.o.) = \$ 0.00 MCE&P INVST. (CA CONN x MCEPfc.o.) = \$ 0.00 LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0055 LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0055 LAND FACTOR FOR OTH (LANDfrem) = 0.0055 LAND FACTOR FOR DLC EQP (LANDfrem) = 0.0055 LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0055 LAND FACTOR FOR OTH (LANDfrem) = 0.0055 LAND INVST. (DLC+MUX+MCEP) x LANDfrem = \$ 0.14 LAND INVST. (MUX+DLC+MCEP) x LANDfrem = \$ 0.98 BUILDING FACTOR FOR DLC EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR MUX EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR OTH (BLDGfrem) = 0.1316 BUILDING FACTOR FOR DLC EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR MUX EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR OTH (BLDGfrem) = 0.1316 BLDG INVST. (DLC+MUX+MCEP) x BLDGfrem = \$ 3.22 BLDG INVST. (MUX+DLC+MCEP) x BLDGfrem = \$ 23.09											
FOOTNOTES NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING. NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED. NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSHEET B; FOR 4 WIRE SERVICES, TABLE 4 IS MULTIPLIED BY 2. NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT. NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.											

LOOP COST ANALYSIS TOOL										Bellore [®]	
ANNUAL COSTS WORKSHEET										LCAT Rel: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1996	
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 1 - RES SERVICE LEVEL: NARBAND										LAST RUN: 22-Jan-97	
										TIME: 13.35	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
1996 UNIT LOOP INVESTMENT BY ACCOUNT 1996 UNIT ANNUAL COSTS BY ACCOUNT 1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT											
PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TP1	SHARED RESOURCES fo3sixaset	DIRECT RESOURCES fo3dixaset	ANNUAL COST FACTOR acfstart	SHARED RESOURCES	DIRECT RESOURCES	SHARED RESOURCES fo3sixaset	DIRECT RESOURCES fo3dixaset	SHARED RESOURCES fo3sixaset	DIRECT RESOURCES fo3dixaset
[PREVIOUS SHEET SUMMARY]		[L]	[M=K*L]	[M'=K'*L]	[N]	[P=M*N]	[P'=M'*N]	[Q=P/12]	[Q'=P'/12]		
LAND	20C	1.0000			0.2322						
BUILDING	10C	1.0000			0.2937						
BLDG ENTRANCE CABLE	12C	1.0000			0.3922						
INTRABLDG CABLE	52C	1.0000			0.3922						
AERIAL CABLE (COPPER)	22C	1.0000			0.4033						
BURIED CABLE (COPPER)	45C	1.0000			0.3467						
UNDERGROUND (CU) CA.	5C	1.0000			0.3663						
CO EQPT - LOW CAP TERM	257C	1.0000			0.3881						
CO EQPT - LOW CAP CHAN	257C	1.0000			0.3881						
CO EQPT - HI CAP TERM	857C	1.0000			0.3881						
CO EQPT - HI CAP CHAN	857C	1.0000			0.3881						
CO EQPT - ANALOG SW	77C	1.0000			0.0000						
CO EQPT - DIGITAL SW	377C	1.0000			0.3458						
AERIAL CABLE (FIBER)	822C	1.0000			0.2983						
BURIED CABLE (FIBER)	845C	1.0000			0.2724						
UNDERGROUND (FO) CA.	85C	1.0000			0.2689						
CONNECTORS	57C	1.0000			0.3881						
MISC. COM EQP & PWR	57C	1.0000			0.3881						
POLE LINE	1C	1.0000			0.3807						
CONDUIT	4C	1.0000			0.2521						
TOTALS			\$ 0	\$ 0	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
			feed3sy		feed3ann		feed3mrc				
FOOTNOTES NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING. NOTE 2: AN INVESTMENT-ONLY STUDY NEGATES ANNUAL COST COMPUTATION. HOWEVER, THIS COLUMN IS PRESENTED FOR CONSISTENCY OF FORMAT ONLY.											

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LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - COST METH
SHEET: 1 of 2COST METHODS ASSIGNMENT TABLE
DISTRIBUTION SEGMENTCOMPANY: CINCINNATI BELL TEL
STATE: OHIO

SWITCHED

SERVICES

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 12-Jul-96

TIME: 10:52

PLANT ITEM	LCAT CODE	WHEN BANDWIDTH DELIVERY IS					
		NARROWBAND		WIDEBAND		BROADBAND	
		PLANT CODE	SENS. INDEX	RESOURCE ASSIGNMENT	SENS. INDEX	RESOURCE ASSIGNMENT	SENS. INDEX
LAND	LAND	20C	F	SHARED	F	SHARED	F
BUILDING	BLDG	10C	F	SHARED	F	SHARED	F
BLDG ENTRANCE CABLE	BEC	12C	V	DIRECT	V	DIRECT	V
INTRABLDG CABLE	IBC	52C	V	DIRECT	V	DIRECT	V
AERIAL CABLE (COPPER) ①	ACU	22C	V	DIRECT	V	DIRECT	V
BURIED CABLE (COPPER) ①	BCU	45C	V	DIRECT	V	DIRECT	V
UNDERGROUND (CU) CA. ①	UCU	5C	V	DIRECT	V	DIRECT	V
CO EQPT - LOW CAP TERM	DLCT	257C	F	DIRECT	V	DIRECT	V
CO EQPT - LOW CAP CHAN	DLCC	257C	V	DIRECT	V	DIRECT	V
CO EQPT - HI CAP TERM	MUXT	857C	F	DIRECT	F	DIRECT	F
CO EQPT - HI CAP CHAN	MUXC	857C	F	DIRECT	F	DIRECT	V
CO EQPT - ANALOG SW	ACOE	77C	V	DIRECT	V	DIRECT	V
CO EQPT - DIGITAL SW	DCOE	377C	V	DIRECT	V	DIRECT	V
AERIAL CABLE (FIBER)	AFO	822C	F	DIRECT	F	DIRECT	V
BURIED CABLE (FIBER)	BFO	845C	F	DIRECT	F	DIRECT	V
UNDERGROUND (FO) CA.	UFO	85C	F	DIRECT	V	DIRECT	V
CONNECTORS	CONN	57C	V	DIRECT	V	DIRECT	V
MISC. COM EQP & PWR	MCEP	57C	V	SHARED	V	SHARED	V
POLE LINE	POLE	1C	F	DIRECT	V	DIRECT	V
CONDUIT	COND	4C	F	DIRECT	V	DIRECT	V

FOOTNOTES

- ① THESE ASSIGNMENTS APPLY TO DEDICATED COPPER - PAIRS (NON-MULTIPLXED) FEEDER & DISTRIBUTION
 BY DEFINITION: ITEMS LABELED F (fixed) OR SHARED ARE EXCLUDED IN A MARGINAL COST STUDY
 ITEMS LABELED F (fixed) ARE EXCLUDED FROM ADDITIONS IN INCREMENTAL STUDIES
 ALL ITEMS ARE INCLUDED IN A PROSPECTIVE, REPLACEMENT OR NEW INSTALLATION.

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HELP SCREEN**Belcore** (R)

TABLE - COST_METH

LCAT Rel : 1.0.4

Sheet 1 of 2

Issued : 07/31/95

<u>Field / Group Title</u>	<u>Valid Inputs</u>	<u>This field or grouping defines -</u>
SERVICES	(none)	The system matrix for DISTRIBUTION cost methodology for - The User selected Service Category - SWITCHED or PRIVATE LINE.
LCAT CODE	(none)	The system key code for this cost component
PLANT CODE	Any 5 (max) char. code	The User cross-reference code for the cost component or component group. Examples are "field" codes, sub-accounts.
DELIVERY	(none)	The Service Delivery Bandwidth Capacity for each group of methodology categories. The system defines 3 - Narrowband -- denotes voice grade and sub-voice grade band width. Wideband -- denotes bandwidths of the first level of digital hierarchy. Broadband -- denotes bandwidths of the higher levels of digital hierarchy.
CATEGORY	(none)	The group of Methodology Categories
SENSITIVITY INDEX	F, V	The Volatility Index to Distance or Demand Sensitivity - F for Fixed Value, Low sensitivity to Distance or Demand. V for Variable Usage, Cost Sensitive to Distance or Demand. S for Sunk Investment which only has an Annual Component.
RESOURCE ASSIGNMENT	SHARED, DIRECT	The Assigned Category of Circuit Function - DIRECT for Dedicated or Circuit Specific Investment. SHARED - for Multi-Circuit or Non-Specific Investment.

***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES *****

***** PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION *****

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LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - COST METH
SHEET 2 of 2COST METHODS ASSIGNMENT TABLE
FEEDER SEGMENTCOMPANY: CINCINNATI BELL TEL.
STATE: OHIOSWITCHED SERVICESLCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1995
TEST CASE: 1
LAST UPDATE: 12-Jul-95
TIME: 10:52

PLANT ITEM	WHEN BANDWIDTH DELIVERY IS						
	NARROWBAND		WIDEBAND		BROADBAND		
	PLANT CODE	SENS. INDEX	RESOURCE ASSIGNMENT	PLANT CODE	SENS. INDEX	RESOURCE ASSIGNMENT	PLANT CODE
LAND	20C	F	SHARED	F	SHARED	F	SHARED
BUILDING	10C	F	SHARED	F	SHARED	F	SHARED
BLDG ENTRANCE CABLE							
INTRABLDG CABLE							
AERIAL CABLE (COPPER) ①	22C	V	DIRECT	V	DIRECT	V	DIRECT
BURIED CABLE (COPPER) ①	45C	V	DIRECT	V	DIRECT	V	DIRECT
UNDERGROUND (CU) CA. ①	5C	V	DIRECT	V	DIRECT	V	DIRECT
CO EQPT - LOW CAP TERM	257C	F	DIRECT	V	DIRECT	V	DIRECT
CO EQPT - LOW CAP CHAN	257C	V	DIRECT	V	DIRECT	V	DIRECT
CO EQPT - HI CAP TERM	857C	F	DIRECT	F	DIRECT	F	DIRECT
CO EQPT - HI CAP CHAN	857C	F	DIRECT	F	DIRECT	V	DIRECT
CO EQPT - ANALOG SW	77C	V	DIRECT	V	DIRECT	V	DIRECT
CO EQPT - DIGITAL SW	377C	V	DIRECT	V	DIRECT	V	DIRECT
AERIAL CABLE (FIBER)	822C	F	DIRECT	F	DIRECT	F	DIRECT
BURIED CABLE (FIBER)	845C	F	DIRECT	F	DIRECT	F	DIRECT
UNDERGROUND (FO) CA.	85C	F	DIRECT	F	DIRECT	F	DIRECT
CONNECTORS	57C	V	DIRECT	V	DIRECT	V	DIRECT
MISC. COM EQP & PWR	57C	V	SHARED	V	SHARED	V	SHARED
POLE LINE	1C	F	DIRECT	F	DIRECT	F	DIRECT
CONDUIT	4C	F	DIRECT	F	DIRECT	F	DIRECT

FOOTNOTES

① THESE ASSIGNMENTS APPLY TO MULTIPLEXED COPPER FEEDER PAIRS ONLY
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 ITEMS LABELED F(xed) ARE EXCLUDED FROM ADDITIONS IN INCREMENTAL STUDIES
 ALL ITEMS ARE INCLUDED IN A PROSPECTIVE REPLACEMENT OR NEW INSTALLATION.

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HELP SCREEN**Belcore** (R)

TABLE - COST_METH

LCAT Rel : 1.0.4

Sheet 2 of 2

Issued : 07/31/95

<u>Field / Group Title</u>	<u>Valid Inputs</u>	<u>This field or grouping defines -</u>
SERVICES	(none)	The system matrix for FEEDER cost methodology for - The User selected Service Category - SWITCHED or PRIVATE LINE.
LCAT CODE	(none)	The system key code for this cost component
PLANT CODE	(none)	The User nominated cross-reference code for the cost component or component group from the previous screen.
DELIVERY	(none)	The Service Delivery Bandwidth Capacity for each group of methodology categories. The system defines 3 - Narrowband - denotes voice grade and sub-voice grade band width. Wideband - denotes bandwidths of the first level of digital hierarchy. Broadband - denotes bandwidths of the higher levels of digital hierarchy.
CATEGORY	(none)	The group of Methodology Categories
SENSITIVITY INDEX	F, V	The Volatility Index to Distance or Demand Sensitivity - F for Fixed Value, Low sensitivity to Distance or Demand. V for Variable Usage, Cost Sensitive to Distance or Demand. S for Sunk Investment which only has an Annual Component
RESOURCE ASSIGNMENT	SHARED, DIRECT	The Assigned Category of Circuit Function - DIRECT for Dedicated or Circuit Specific Investment. SHARED - for Multi-Circuit or Non-Specific Investment.

***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES *****

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C:\123R24\LCATR070\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore [®]	
INPUT - STUDY SETUP		GENERAL STUDY REQUIREMENTS		TODAY IS: 04-Dec-96	
LCAT Rel.: 1.0.4				LAST UPDATE:	
Issue Date: 3/31/95				03-Dec-96 08:48 AM	
STUDY NAME		1996 BAND 1 (OHIO-UNBUNDLED) RESIDENCE LINE STUDY 0 - 12000 FEET INTRASTATE			
COMMENTS					
SERVICE CLASS		BAND 1 - RESIDENCE LINE		STUDY BASIS	
				☒ NETWORK	
				☐ INDIVIDUAL	
COMPANY		CINCINNATI BELL TEL.		INVESTMENT YEAR	
				1996	
STATE / PROVINCE		OHIO		LOOP CHAR. STUDY YEAR	
				1996	
CITY / AREA		CINCINNATI		STUDY YEAR	
				1996	
DENSITY CELL MIX		0 100 0 0		TEST CASE	
		VH HI MED LO		1	
DIGITAL LOOP CARRIER FACILITIES INCLUDED IN THE STUDY:					
		Type Percent Mix:			
		100 FIBER IN THE LOOP			
		0 COPPER DIG LOOP CXR			

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INPUT - STUDY SETUP

Sheet 1 of 2

HELP SCREEN

Bellcore (R)

LCAT Rel. 1.0.4

ISSUED: 3/31/95

THIS DISPLAY This display's data and the data on the subsequent display are a record of this study's criteria and the system's parameters and is the TITLE PAGE of this study. Printouts should accompany the input, worksheets, and results.

STUDY NAME Enter in Free Form up to 35 Characters for a Study Title. This data will be inserted in the title box of the title display of each run module.

COMMENTS Enter in Free Form (as in a Word Processor) FOUR lines (Word Wrap is active) of Commentary that will help Explain the study criteria and rationale. The space will allow approximately 72 proportionately spaced characters per line, 288 total. To begin just start typing in the data after <Enter>ing the previous item. The character guide will appear after the first character is entered. Data can be edited in the normal WP manner, using the <BS>, , <Up>, <Dn>, etc... keys. PRESS THE < Enter > KEY TO STOP INPUTTING DATA.

STUDY BASIS Select with an "X" either an average NETWORK study or an INDIVIDUAL CASE study.

FACILITY TYPE Select by entering the percent of technology mix, the Facility types in the loop network that support the service/s/ under study or enter an "X" to denote inclusion.

CELL DENSITY Select by entering the percent of cell density mix, based upon the scope of the jurisdiction and the definitions of the cell layers: C1, C2, C3, C4; which represent the VERY HIGH, HIGH, MEDIUM, LOW qualifiers, such as, METRO, URBAN, SUBURBAN, and RURAL.

***** PLEASE REFER TO THE USER MANUAL FOR INFORMATION *****

***** CONCERNING ANY OTHER DATA INPUT ITEMS ON THIS DISPLAY *****

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

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C:\123R24\LCATR070\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore [®]																														
INPUT - STUDY SETUP SHEET 2 / 2 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		GENERAL STUDY REQUIREMENTS STUDY QUESTIONS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - RESIDENCE LINE		LCAT Rel. 1.0.4 ISSUED: 3/31/95 STUDY YEAR: 1996 TEST CASE: 1 LAST UPDATE: 03-Dec-96 TIME: 08:48 AM																														
SELECTED QUESTIONS																																		
CONCERNING - SERVICE SPEC.	1. Is this Study for a NEW Installation or an ADDITION ? 2. Is this Study for a SWITCHED or PRIVATE LINE Service ? 3. Is this Study for Narrow, Wide, or Broadband Services 4. Is this Study for 2 Wire or 4 Wire Transmission ?																																	
OFFICE CHAR.	5. What Percent of the C.O. Switch Installations are DIGITAL Switches? 6. What Percent of Loop Carrier Installations are INTEGRATED DLC's? 7. What Percent of Loop Carrier Cross-connects are Electronic DCS's? 8. Deploy Digital Loop Carrier (loop pair gain) exclusively at ?																																	
RESULTS SPEC.	9. Do you want FLAT RATE or DISTANCE SENSITIVE parameters ? 9a. If Distance Sensitive, what band increment do you want ? 10. How many Cost Bands in this study ? 11. Should this Study result in Investment, Cost, or All values ? 12. Is this study for Total Incremental or Marginal Costs ? 13. How many circuits (loops) in this Study ? 14. The study classification is (e.g.; RATES PLAN, TEST DATA, NEW SERVICE) Required for the "Footer" of each Report page.																																	
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">VALID RESPONSE</th> </tr> </thead> <tbody> <tr> <td style="width: 50%;">SET</td> <td style="width: 50%;"></td> </tr> <tr> <td>N or A</td> <td>NEW</td> </tr> <tr> <td>S or P</td> <td>SWITCHED</td> </tr> <tr> <td>N, W or B</td> <td>NARBAND</td> </tr> <tr> <td>2 or 4</td> <td>2</td> </tr> <tr> <td>0 → 100</td> <td>100</td> </tr> <tr> <td>0 → 100</td> <td>0</td> </tr> <tr> <td>0 → 100</td> <td></td> </tr> <tr> <td>e.g., 12000</td> <td>12000 Feet</td> </tr> <tr> <td>For</td> <td>FLAT RATE</td> </tr> <tr> <td>1, 2, 3, 4, 5</td> <td></td> </tr> <tr> <td>I.C. or A</td> <td>COST</td> </tr> <tr> <td>Total</td> <td>TOT INCR</td> </tr> <tr> <td>999</td> <td>RATES PLAN</td> </tr> </tbody> </table>			VALID RESPONSE		SET		N or A	NEW	S or P	SWITCHED	N, W or B	NARBAND	2 or 4	2	0 → 100	100	0 → 100	0	0 → 100		e.g., 12000	12000 Feet	For	FLAT RATE	1, 2, 3, 4, 5		I.C. or A	COST	Total	TOT INCR	999	RATES PLAN
VALID RESPONSE																																		
SET																																		
N or A	NEW																																	
S or P	SWITCHED																																	
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I.C. or A	COST																																	
Total	TOT INCR																																	
999	RATES PLAN																																	

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C:\123R24\LCATRD70\CRITERIA

HELP SCREEN

Bellcore (R)

INPUT - STUDY SETUP

LCAT Rel. 1.0.4
ISSUED: 3/31/95

1. Specify **N** for New installations or **A** for Addition to existing installations are being studied.
2. Specify **S** for the Switched Services or **P** for the Private Line (Special) Service category.
3. Specify **N** for Narrowband (DS0), **W** for Wideband (DS1), or **B** for Broadband Services category.
4. Specify as **2** for 2-wire or **4** for 4-wire, the circuit transmission paths used by the service/s/ being studied. .
5. Specify Digital Switch Mix as a Percentage of installations over Analog in the Jurisdiction.
6. & 7. Specify Integrated DLC Mix as a Percentage of the DLC equipment requirements,
Using 6. for Switched Services or Using 7. for Special (Private Line) Services.
8. Enter in feet, the loop length beyond which only Digital Loop Carrier Technology will be considered
9. Specify **F** for Flat Rate Loop or **D** for Distance Sensitive Bands, for the Cost Structure of the study
- 9A. Enter **1, 2, 3, or 4** to specify either 1/4, 1/2, 3/4, or 1 mile, respectively, band increments in a Distance Sensitive Study
10. Specify the quantity of Cost Bands of Loop Lengths will be studied, for upto a maximum of 5 bands.
Enter **0** for Network Averaged (non-Banded) Input or Individual Circuit Flat Rate Cost Studies.
11. Specify **I** for Investment Only results or **C** for resultant Annual and Monthly Recurring Costs or **A** for All values.
12. Specify **T** for Total incremental or **M** for Marginal (Direct Incremental) Average Weighted Costs Study.
13. Enter the quantity of loop circuits that will be the demand basis of this cost study.
Nominally, entering 1 provides a "UNIT" cost and any other value, a "TOTAL" cost

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C:\123R24\LCATR070\DESIGN		LOOP COST ANALYSIS TOOL		Belcore
INPUT - LOOP_DESIGN Sheet 1 / 1		CIRCUIT DESIGN REQUIREMENTS CHARACTERISTICS FOR		LCAT Rel :1.0.4 Issued :07/31/95
COMPANY :CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996		STUDY YR : 1996
CITY / AREA :CINCINNATI		LOOP STUDY YEAR: 1996		TEST CASE : 1
STATE / PROV :OHIO		SERVICE CLASS:BAND 1 - RESIDENCE LINE		LAST UPDATE : 12-Jul-96 TIME : 10:55

CIRCUIT DESIGN

Study Parameters	
Study Basis: NETWORK STUDY	Service Level: NARBAND Loop Topology: STAR

**CIRCUIT LAYOUT REQUIREMENTS -
FOR FIBER HUBS & FEEDER EXTENSIONS**

(FIBER HUB TO REMOTE TERMINAL LINK)

FACILITY INTERFACE SITES :

Proportion of Fiber Circuits
WITHOUT Fiber Hubs 0.0000

FACILITY TECHNOLOGIES:

Of the Hubbed Circuits -

Proportion of links on Fiber Tech. 0.0000

Proportion of links on CDLC / MAR 0.0000

FOR SERVICE ACCESS NETWORK

(REMOTE TERMINAL TO CUSTOMER LINK)

FACILITY INTERFACE SITES :

Proportion of Remote terminals
colocated at Customer Premises 0.0000

**CIRCUIT DESIGN REQUIREMENTS -
SELECTION & DISTRIBUTION:**

Note

FOR FIBER DLC DESIGNS:

Weighting of Design #1	0.0000
Weighting of Design #2	0.0000
Weighting of Design #3	1.0000
Weighting of Design #4	NA 0.0000
Weighting of Design #5	NA 0.0000
Weighting of Design #6	NA 0.0000
	1.0000 ChkSum

FOR COPPER DLC DESIGNS:

Weighting of Design #1	1.0000
Weighting of Design #2	NA 0.0000
	0.0000 ChkSum

NA DENOTES THAT THE CIRCUIT DESIGN
PROBABLY DOES NOT APPLY TO THIS
SET OF STUDY PARAMETERS.

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C:\123R24\LCATR070\DESIGN
INPUT - LOOP_DESIGN
Sheet 1 of 1

HELP SCREEN**Belcore**

LCAT Rel :1.0.4
Issued :07/31/95

**DIGITAL LOOP
CARRIER
DESIGNS**

Each Loop's circuit layout is broken down into potentially the FEEDER, the DISTRIBUTION, and the DROP segment. The FEEDER segment can have THREE Spans, the PRIMARY and EXTENSION are realtime, but, the SUBFEEDER is a "filler" for spans or distances under PAIR GAIN Deployment and will be employed using engineering rules and network characteristics. The potential Fiber Optic DLC and Copper DLC circuit layouts have been categorized into several generic designs for purposes of narrowing down the complexity of the network contribution. The *DESIGN's* represent unique combinations of layers (COLLOCATION) and the transport media. There is a chart of these *DESIGN's* included in the DATA CATALOG and the METHODOLOGY sections of the User Guide.

COLLOCATIONS

To be defined as the combining of Loop functions at the same location, excluding the need for translation of the transport function (eliminating the OSP and termination equipment). Note that the sum of the probabilities do not have to equal total universe, therefore, the proportions are a function of the total serving universe (total loop network).

**FIBER HUBS &
FEEDER
EXTENSIONS**

These values represent the proportion of each technology used in the layouts which DO NOT have collocated FIBER HUB and REMOTE TERMINAL functions.

WARNING

→ This function must be in place for "RING" topologies as 100% FIBER, therefore, the *DESIGN* choices are limited for RING to *DESIGN's* 1 and 5. All other *DESIGN* are to be avoided.

**SERVICE
SPECIFIC**

To avoid circuit layout conflict with certain service levels, the input choices will be limited for BROADBAND service levels to those which currently support DS3 Xconn at both ends. Currently, that is, *DESIGN* 4, 5, & 6.

***** PLEASE REFER TO THE USER MANUAL FOR INFORMATION *****
***** CONCERNING ANY OTHER DATA INPUT ITEMS ON THIS DISPLAY *****

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C:\123R24\LCATR070\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore	
TABLE - SPAN_INV SHEET 1 / 4 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		LOOP FACILITY INPUT FIBER CABLE DATA FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - RESIDENCE LINE		LCAT Rel: 3.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-96 TIME: 10:57	
FIBER CABLE INVESTMENT AND CHARACTERISTICS					
CABLE TYPE MIX (DISTRIBUTION TO CODE): Proportion of FIBER cable installations that are		FOR FEEDER SEGMENTS		FOR DISTRIBUTION SEGMENTS	
		AERIAL		0.1800	0.0000 factors
		BURIED		0.0000	0.0000 factors
		UNDGRD		0.8200	0.0000 factors
INVESTMENT PER CABLE PAIR FOOT BY CABLE TYPE: Update Cable Sheath Prices on the FULL SET Input SHEET ? (Y/N) N (Required with INDIVIDUAL Mode)					
If not, Update Unit Averages as Follows :					
PRIMARY SEGMENT					
Average Unit Investment for FIBER cable, Installed as		AERIAL		\$ 0.2823	per fiber pair Foot
		BURIED		\$ 0.2694	per fiber pair Foot
		UNDGRD		\$ 0.1686	per fiber pair Foot
		(to Fiber Hub)			
FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT					
Average Unit Investment for FIBER cable, Installed as		AERIAL		\$ 0.2823	per fiber pair Foot
		BURIED		\$ 0.2694	per fiber pair Foot
		UNDGRD		\$ 0.1686	per fiber pair Foot
		(Fiber Hub to Remote Terminal)			
				0.0000	per fiber pair Foot
				0.0000	per fiber pair Foot
				0.0000	per fiber pair Foot
		(Remote Terminal to Service Point)			

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CA123R24\LCATRC70\FACILITY		LOOP COST ANALYSIS TOOL				Bellcore
TABLE - SPAN_INV SHEET 1A / 4 COMPANY: CINCINNATI BELL TEL. CITY/AREA: CINCINNATI STATE/PROV: OHIO		LOOP FACILITY INPUT FIBER CABLE DATA - BY CABLE SHEATH DETAIL FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - RESIDENCE LINE				LCAT Ver: 1.0.4 ISSUED: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-96 TIME: 10:57
FIBER OPTIC CABLE INVESTMENT REFERENCE TABLE						
Cable Sheath Sizes			CAPACITY	Unit Investment per Cable Pair Foot, by Cable Type, by Cable Size		
			INDEX	AERIAL	BURIED	UNDERGROUND
4	Fiber Cable	2 pr	\$		\$	
6	Fiber Cable	3 pr	\$		\$	
12	Fiber Cable	6 pr	\$		\$	
18	Fiber Cable	9 pr	\$		\$	
24	Fiber Cable	12 pr	\$		\$	
36	Fiber Cable	18 pr	\$		\$	
48	Fiber Cable	24 pr	\$		\$	
60	Fiber Cable	30 pr	\$		\$	
72	Fiber Cable	36 pr	\$		\$	
84	Fiber Cable	42 pr	\$		\$	
96	Fiber Cable	48 pr	\$		\$	
144	Fiber Cable	72 pr	\$		\$	
192	Fiber Cable	96 pr	\$		\$	
216	Fiber Cable	108 pr	\$		\$	

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TABLE - SPAN_INV
SHEET 1 / 4

HELP SCREEN

BellcoreTM
LCAT Rel : 1.0.4
Issued : 07/31/95

***** THE INPUT DATA NAMES IN RED CROSS--REFERENCE TO THEIR DATA CATALOG NAMES*****

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C:\123R24\LCAT\370\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore (R)	
TABLE - SPAN INV SHEET 2 / 4		LOOP FACILITY INPUT COPPER CABLE DATA FOR		LCAT Rel: 1.04 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996		STUDY YR: 1996	
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996		TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - RESIDENCE LINE		LAST UPDATE: 12-Jul-96 TIME: 10:57	
COPPER CABLE CHARACTERISTICS AND INVESTMENTS					
Cable Gauge Mix :	GAUGE	FEEDER SEGMENT	DISTRIBUTION SEGMENT	Unit Investment per Cable Pair Foot By Cable Type, By Cable Gauge :	
The Proportion of	26 GA.	0.1500	0.1500	Update Cable Sheath Prices [Required with INDIVIDUAL Mode]	
Copper Cable that is	24 GA.	0.8500	0.8500	on the FULL SET Input SHEET? (Y / N) N	
	22 GA.	0.0000	0.0000	If not, Update	
Cable Type Mix, By Gauge :				GAUGE	FEEDER SEGMENT
The Proportion of					DISTRIBUTION SEGMENT
Copper Cable that is	26 GA.	AERIAL 0.1200	0.5900	Average Unit	
		BURIED 0.0000	0.1600	Investment for	26 GA. BURIED \$ 0.0166 \$ 0.0657
		UNDGRND 0.8800	0.2500	Copper Cable	UNDGRND \$ 0.0109 \$ 0.0569
	24 GA.	AERIAL 0.1200	0.5900	Installed as	AERIAL \$ 0.0121 \$ 0.0397
		BURIED 0.0000	0.1600		BURIED \$ 0.0166 \$ 0.0657
		UNDGRND 0.8800	0.2500		UNDGRND \$ 0.0109 \$ 0.0569
	22 GA.	AERIAL 0.0000	0.0000		AERIAL \$ 0.0000 \$ 0.0000
		BURIED 0.0000	0.0000		BURIED \$ 0.0000 \$ 0.0000
		UNDGRND 0.0000	0.0000		UNDGRND \$ 0.0000 \$ 0.0000
NOTE : If the DROP WIRE resource investment is average values, it may be backed out through input of the Drop Wire Unit Investment (Sheet 5) and the flagging of the Adjustment either there or on the ADJUST input file worksheet.					

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CA123R24\LCATR070\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore
TABLE - SPAN_INV SHEET 2A / 4 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		LOOP FACILITY INPUT COPPER CABLE DATA - BY CABLE SHEATH DETAIL FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - RESIDENCE LINE		LCAT Ref: 1.3.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-96 TIME: 10:57

COPPER CABLE INVESTMENT REFERENCE TABLE

Unit Investment Per Cable Pair Foot, By Cable Gauge, By Cable Type, By Cable Size

Cable Sheath Sizes		Capacity	Gauge: => INDEX	26 GA.			24 GA.			22 GA.		
				AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40	Copper Cable	20 pr	\$									
50	Copper Cable	25 pr	\$									
80	Copper Cable	40 pr	\$									
100	Copper Cable	50 pr	\$									
140	Copper Cable	70 pr	\$									
200	Copper Cable	100 pr	\$									
400	Copper Cable	200 pr	\$									
600	Copper Cable	300 pr	\$									
800	Copper Cable	400 pr	\$									
1200	Copper Cable	600 pr	\$									
1800	Copper Cable	900 pr	\$									
2400	Copper Cable	1200 pr	\$									
3000	Copper Cable	1500 pr	\$									
3600	Copper Cable	1800 pr	\$									
4200	Copper Cable	2100 pr	\$									
4800	Copper Cable	2400 pr	\$									
5400	Copper Cable	2700 pr	\$									
6000	Copper Cable	3000 pr	\$									
7200	Copper Cable	3600 pr	\$									
8400	Copper Cable	4200 pr	\$									

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C:\123R24\LCATR070\FACILITY
TABLE - SPAN_INV
SHEET 2 / 4

HELP SCREEN

Bellcore
LCAT Rel: 1.0.4
Issued: 07/31/95

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LCAT

INPUT SCREEN

Page -1-

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LCAT

INPUT SCREEN

Page -2-

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C:\123R24\LCATR070\FACILITY.WK1

LOOP COST ANALYSIS TOOL

Bellcore (R)

SPAN INV - WORKSHEET
Sheet 1 / 3COPPER CABLE DISTRIBUTIONS MELDING
WORKSHEET A
FORLCAT No: 1.0.4
Issue Date: 07/31/85
STUDY YR: 1986
TEST CASE: 1986
DATE: 1
LAST UPDATE: 12-Jul-86
TIME: 10:57COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIOFACILITY TYPE: COPPER CABLE
DESIGN TYPE: DISTRIBUTION SEGMENT

SERVICE CLASS: BAND 1 - RESIDENCE LINE

DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...dst)	PER FOOT INVESTMENT (pfi...ds)	CABLE GAUGE MIX (copper...dst)	ADJUSTED CABLE TYPE	ADJUSTED PFI
CHARACTERISTICS FOR:	[A]	[B]	[C]	[D=A*C]	[E=B*C]
AERIAL @ 26 GA.	0.590000	\$ 0.039700	0.1500	0.088500	\$ 0.005955
BURIED @ 26 GA.	0.160000	\$ 0.065700	0.1500	0.024000	\$ 0.009855
UNDGRND @ 26 GA.	0.250000	\$ 0.056900	0.1500	0.037500	\$ 0.008535
AERIAL @ 24 GA.	0.590000	\$ 0.039700	0.8500	0.501500	\$ 0.033745
BURIED @ 24 GA.	0.160000	\$ 0.065700	0.8500	0.136000	\$ 0.055845
UNDGRND @ 24 GA.	0.250000	\$ 0.056900	0.8500	0.212500	\$ 0.048365
AERIAL @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
BURIED @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000
UNDGRND @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000

Check = 1.00

TABLE 2

TABLE 4

TABLE 6

DATA DESC.	CABLE TYPE MIX RANGE NAME	MELDED GAUGES	PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES	PAIR / FOOT INVESTMENT RENORMALIZED AERIAL / BURIED	MELDED GAUGES
CHARACTERISTICS FOR:	[F=sum(D*TYPE)]		[G=sum(E*TYPE)]		[H=F*TYPE / sum(F*TYPE)]	
AERIAL	0.590000		\$ 0.039700		\$ 0.786867	
BURIED	0.160000		\$ 0.065700		\$ 0.141333	
UNDERGRND	0.250000		\$ 0.056900			
Check =	1.000000				Check =	1.000000

FOOTNOTES

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C:\123R24\LCATR070\FACILITY.WK1		LOOP COST ANALYSIS TOOL				Bellcore (R)	
SPAN INV - WORKSHEET Sheet 2 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET A FOR FACILITY TYPE: COPPER CABLE DESIGN TYPE: SUBFEEDER SEGMENT SERVICE CLASS: BAND 1 - RESIDENCE LINE				LCAT Ver: 1.0.2 Issue Date: 07/31/95 STUDY YR: 1996 TEST CASE: 1996 DATE: 1 LAST UPDATE: 12-Jul-96 TIME: 10:57	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO							
DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...fdr)	PER FOOT INVESTMENT (pft..fd)	CABLE GAUGE MIX (copper...fdr)	ADJUSTED CABLE TYPE	ADJUSTED PFI		
CHARACTERISTICS FOR:	[A]	[B]	[C]	[D=A*C]	[E=B*C]		
AERIAL @ 26 GA.	0.120000	\$ 0.012100	0.1500	0.018000	\$ 0.001815		
BURIED @ 26 GA.	0.000000	\$ 0.016600	0.1500	0.000000	\$ 0.002490		
UNDGRND @ 26 GA.	0.880000	\$ 0.010900	0.1500	0.132000	\$ 0.001635		
AERIAL @ 24 GA.	0.120000	\$ 0.012100	0.8500	0.102000	\$ 0.010285		
BURIED @ 24 GA.	0.000000	\$ 0.016600	0.8500	0.000000	\$ 0.014110		
UNDGRND @ 24 GA.	0.880000	\$ 0.010900	0.8500	0.748000	\$ 0.009285		
AERIAL @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000		
BURIED @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000		
UNDGRND @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000		
Check = 1.00							
--- TABLE 2 ---		--- TABLE 4 ---		--- TABLE 6 ---			
DATA DESC.	CABLE TYPE MIX RANGE NAME	PAIR / FOOT INVESTMENT RANGE NAME	MELOD GAUGES	PAIR / FOOT INVESTMENT RENORMALIZED AERIAL / BURIED	MELOD GAUGES		
CHARACTERISTICS FOR:	[F=sum(D*TYPE)]	[G=sum(E*TYPE)]		[H=F*TYPE / sum(F*TYPE)]			
AERIAL	0.120000	\$ 0.012100		\$ 1.000000			
BURIED	0.000000	\$ 0.016600		\$ 0.000000			
UNDERGRND	0.880000	\$ 0.010900					
Check = 1.000000							
FOOTNOTES							

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CA123R24LCAT070\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore [®]
TABLE - SPAN_INV SHEET 3 / 4 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE/PROV: OHIO		LOOP FACILITY INPUT COPPER PAIR GAIN CABLE DATA FOR INVESTMENT YEAR : 1996 LOOP STUDY YEAR : 1996 SERVICE CLASS : BAND 1 - RESIDENCE LINE		LCAT Rel : 1.0.4 Issued : 07/31/95 STUDY YR : 1996 TEST CASE : 1 LAST UPDATE : 12-Jul-96 TIME : 10:57
COPPER CABLE CHARACTERISTICS FOR CDLC SYSTEMS				
FOR DLC SYSTEMS ON COPPER LOOPS				
Cable Gauge :	Please Enter the NUMBER for 22 GA., 24 GA., or 26 GA. :			24
Pair Gain Factor :	(When Investment Utilities or Band Width Mix are NOT Used)			
	The Average Number Of Voice Grade Circuit Equivalents Per System :			96
	The Average Number Of Transmission Pairs Plus Protection Per System :			10
	The Average Number Of Support (Power, Alarm, Etc) Pairs Per System :			2
	Ratio Of Required Pairs To Derived Pairs [Pair Gain Factor] :			0.1250
NOTE: ① The value represents the extent to which copper pairs are gained. For example, A 96 Channel System uses 4 Transmit Pairs, 4 Receive Pairs, 2 Protection Pairs and 2 Support Pairs (Test and Order Wire). Then the Derived Pairs would be the Sum of the Pairs divided by the Working Channels Or $(10 + 2) / 96 = 0.125$. When applied to segment length it becomes the Effective Length per Pair.				

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TABLE - SPAN_INV
SHEET 3 / 4

HELP SCREEN**Bellcore** (R)

LCAT Rel : 07/31/95
Issued : 07/31/95

pggauge	In CSA rules, a single gauge is preferred for CDLC
vgcheqv	Each CDLC has a voice grade equivalent, usually referred to as a ____ Channel System. Domestic systems are basic 96 Channel, whereas, International are 120 Channel
xmsnpr	CDLC uses a Transmit/Receive Pair for each direction (unidirectional), therefore, the basic structure is four sets of two pairs plus one protection set (10 pairs)
suptpr	CDLC is customarily supported by a power pair and an alarm pair (2 pair)
pgfactor	Where : $pgfactor = (\# \text{ of } xmsnpr + \# \text{ of } suptpr) / vgcheqv$

***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES *****

*****PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION*****

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C:\123R24\LCAT070\FACILITY.WK1		LOOP COST ANALYSIS TOOL		Bellcore [®]
SPAN INV - WORKSHEET Sheet 3 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET B		LCAT Ver: 1.0.4 Issue Date: 07/31/95
COMPANY: CINCINNATI BELL TEL.		FOR FACILITY TYPE: COPPER CABLE for DLC		STUDY YR: 1996
CITY / AREA: OHIO		DESIGN TYPE: FEEDER SEGMENT		TEST CASE: 1996
STATE / PROV: CINCINNATI		SERVICE CLASS: BAND 1 - RESIDENCE LINE		DATE: 1
				LAST UPDATE: 12-Jul-96
				TIME: 10:57
MELDED CABLE INVESTMENT PER PAIR FOOT LINE REPEATER EQUIPMENT				
INVESTMENT DEVELOPMENT FOR:				
DESCRIPTION	REPEATER SPACING	UNIT REPEATER INVESTMENT	REPEATER INVEST. PER FOOT	
	[A]	[B]	[C=B/A]	
LINE REPEATER AT 26 GA.	3500	\$ 0	\$ 0.000000	
LINE REPEATER AT 24 GA.	4500	\$ 0	\$ 0.000000	
LINE REPEATER AT 22 GA.	5500	\$ 0	\$ 0.000000	
TABLE 4 DEVELOPMENT FOR: COPPER CABLE UNIT INVESTMENT				
ADJUSTED PAIR / FOOT INVESTMENT	PAIR / FOOT INVESTMENT	REPEATER BY GAUGE	WORKING CHANNEL INVESTMENT / FOOT	FOR DLC Gauge : 24.00 - TABLE 4 - WORKING CHANNEL INVESTMENT / FOOT
DESCRIPTION	BY CODE BY GAUGE 2 * (ADLCPFF) / (RPTR) (E=C)	BY GAUGE (RPTR) (E=C)	(ADLCPFF) (F=D+E)	(ADLCPFF) (F=D+E)
	[D]	[E=C]		
AERIAL @ 26 GA.	\$ 0.024200	\$ 0.000000	\$ 0.024200	\$ 0.024200
BURIED @ 26 GA.	\$ 0.033200	\$ 0.000000	\$ 0.033200	\$ 0.033200
UNDGRND @ 26 GA.	\$ 0.021800	\$ 0.000000	\$ 0.021800	\$ 0.021800
AERIAL @ 24 GA.	\$ 0.024200	\$ 0.000000	\$ 0.024200	\$ 0.024200
BURIED @ 24 GA.	\$ 0.033200	\$ 0.000000	\$ 0.033200	\$ 0.033200
UNDGRND @ 24 GA.	\$ 0.021800	\$ 0.000000	\$ 0.021800	\$ 0.021800
AERIAL @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000
BURIED @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000
UNDGRND @ 22 GA.	\$ 0.000000	\$ 0.000000	\$ 0.000000	\$ 0.000000
NOTES : ① The Facility Table Investments are for each Cable Pair Foot, DLC Systems are 4 wire.				

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C:\123R24\LCATR070\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore (P)								
TABLE - SPAN_INV SHEET 4 / 4 COM: COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		LOOP FACILITY INPUT SERVICE ACCESS SEGMENT FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - RESIDENCE LINE		LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 12-Jul-96 TIME: 10:57								
SERVICE ACCESS CHARACTERISTICS AND INVESTMENTS												
AVERAGE UNIT MIX :		AVERAGE UNIT INVESTMENT :										
The Average Number of Terminals in the Service Access Segment of a Loop -												
Proportion of Loops that use.....	<table border="1" style="display: inline-table;"> <tr><td>Aerial</td><td>0.00</td></tr> <tr><td>Buried</td><td>0.00</td></tr> </table>	Aerial	0.00	Buried	0.00	Per Unit Installation.....	<table border="1" style="display: inline-table;"> <tr><td>Aerial Termination</td><td>0</td></tr> <tr><td>Buried Termination</td><td>0</td></tr> </table>	Aerial Termination	0	Buried Termination	0	
Aerial	0.00											
Buried	0.00											
Aerial Termination	0											
Buried Termination	0											
The Average Drop Wire & Building Entrance Cable Installation -												
Proportion of Loops that use..	<table border="1" style="display: inline-table;"> <tr><td>Aerial Wire Drops</td><td>0.0000</td></tr> <tr><td>Buried Wire Drops</td><td>0.0000</td></tr> <tr><td>Bldg Entrance Cable</td><td>1.0000</td></tr> <tr><td>Aerial Coax/Wire Drops</td><td>0.0000</td></tr> </table>	Aerial Wire Drops	0.0000	Buried Wire Drops	0.0000	Bldg Entrance Cable	1.0000	Aerial Coax/Wire Drops	0.0000	Adjust Cable Pair Foot invest. for DW Investment ? (Y/N)	N	
Aerial Wire Drops	0.0000											
Buried Wire Drops	0.0000											
Bldg Entrance Cable	1.0000											
Aerial Coax/Wire Drops	0.0000											
		Per Unit Installation.....	<table border="1" style="display: inline-table;"> <tr><td>Aerial Wire Drops</td><td>\$ 0.00</td></tr> <tr><td>Buried Wire Drops</td><td>\$ 0.00</td></tr> <tr><td>Bldg Entrance Cable</td><td>\$ 75.00</td></tr> <tr><td>Aerial Coax/Wire Drops</td><td>\$ 0.00</td></tr> </table>	Aerial Wire Drops	\$ 0.00	Buried Wire Drops	\$ 0.00	Bldg Entrance Cable	\$ 75.00	Aerial Coax/Wire Drops	\$ 0.00	
Aerial Wire Drops	\$ 0.00											
Buried Wire Drops	\$ 0.00											
Bldg Entrance Cable	\$ 75.00											
Aerial Coax/Wire Drops	\$ 0.00											
The Average Intrabuilding Cable Installation -												
Proportion of Installations with Intrabuilding Cable	0.0000	Per Instn for a Intrabuilding Network Cable Pair	\$ 0.00									

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RLCATR070\FACILITY
SPAN_INV
4

HELP SCREEN

Belcore (TM)
LCAT Rel : 1.0.4
Issued : 07/31/95

terna These terminals may include the Serving Area Interface Cross Box, Drop Wire Block, and/or the Network
termb interface Block summary per circuit pair installation investment.

adropinv These facility investments may also include Drop Wire Block and/or Network Interface summary per circuit
bdropinv pair installation investment.

bec
coaxinv

ibc This facility investment should include ALL the internal cross-connects and terminations for this type of
installation as a circuit pair installation investment.

CONFIDENTIAL
NOTICE MUST BE GIVEN
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES *****

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C:\123R24\LCATRD88 FACTORS

LOOP COST ANALYSIS TOOL

Bellcore[®]TABLE - FACTORS
SHEET 1 / 1

INVESTMENT RELATED FACTOR TABLES

FOR

ANNUALIZATION FACTORS

INVESTMENT YEAR : 1996

STUDY YEAR: 1996

LCAT Rel : 1.0.4

Issued : 3/31/95

STUDY YR : 1996

TEST CASE : 1

LAST UPDATE : 17-Jan-97

TIME : 15:22

COMPANY : CINCINNATI BELL TEL.
CITY / AREA : CINCINNATI
STATE / PROV : OHIO

SERVICE CLASS: BAND 1 - RESIDENCE LINE

plant list

LAND

BUILDING

BLDG ENTRANCE CABLE

INTRABLDG CABLE

AERIAL CABLE (COPPER)

BURIED CABLE (COPPER)

UNDERGROUND (CU) CA.

CO EQPT - LOW CAP TERM

CO EQPT - LOW CAP CHAN

CO EQPT - HI CAP TERM

CO EQPT - HI CAP CHAN

CO EQPT - ANALOG SW

CO EQPT - DIGITAL SW

AERIAL CABLE (FIBER)

BURIED CABLE (FIBER)

UNDERGROUND (FO) CA.

CONNECTORS

MISC. COM EQP & PWR

POLE LINE

CONDUIT

PRICE
INDEXANNUAL
COST

1.0000	0.2322
1.0000	0.2937
1.0000	0.3922
1.0000	0.3922
1.0000	0.4033
1.0000	0.3467
1.0000	0.3663
1.0000	0.3881
1.0000	0.3881
1.0000	0.3881
1.0000	0.3881
1.0000	0.0000
1.0000	0.3458
1.0000	0.2983
1.0000	0.2724
1.0000	0.2689
1.0000	0.3881
1.0000	0.3881
1.0000	0.3807
1.0000	0.2521

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C:\123R24\LCATR070\INVEST		LOOP COST ANALYSIS TOOL				Bellcore (R)	
TABLE - EQUIP_INV Sheet 1 of 1 COMPANY: CINCINNATI BELL TEL CITY / AREA : CINCINNATI STATE / PROV : OHIO		DATA REFERENCE TABLE EQUIPMENT & OTHER INVESTMENTS FOR INVESTMENT YEAR: 1996 SERVICE LEVEL: NARBAND SERVICE CLASS: BAND 1 - RESIDENCE LINE				LCAT Rel : 1.0.4 Issued : 07/31/95 STUDY YR : 1996 TEST CASE : 1 LAST UPDATE: 12-Jul-96 10:58	
EQUIPMENT INVESTMENT (including Engineer, Furnish, & Install Costs)							
		CENTRAL OFFICE			REMOTE LOCATION		
		LINE	CHANNEL	TERMINAL	CHANNEL	TERMINAL	
AIR DRYERS INVESTMENT:							
For an AERIAL Installed Cable Pair				\$ 0.00			
For a BURIED Installed Cable Pair				\$ 0.00			
For an UNDERGROUND Installed Cable Pair				\$ 0.00			
CENTRAL OFFICE TERMINATION INVESTMENT :							
For each cable pair associated with twisted pair copper cable				\$ 0.00			
For each per cable pair associated with digital loop carrier technology				\$ 0.00			
COPPER LOOP CARRIER UNIT CIRCUIT INVESTMENT by SERVICE LEVEL :							
For each line repeater for one copper digroup (not svc lev)		\$ 0.00					
For an Office Repeater Bay for a T1 Line		\$ 0.00					
For a Universal DLC Equipment Arrangement		\$ 0.00	\$ 87.51	\$ 12.14	\$ 85.28	\$ 51.57	
For an Integrated DLC Equipment Arrangement		\$ 0.00	\$ 0.00	\$ 0.00	\$ 85.28	\$ 51.57	
FIBER OPTIC MULTIPLEXERS UNIT CIRCUIT INVESTMENT by SERVICE LEVEL :							
1. For a Hub with nonFiber Extensions or nonHub Arrangement		\$ 19.62		\$ 2.35	\$ 18.49	\$ 2.35	
2. For a Hub with Fiber Extensions or a Fiber Ended Arrangement		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00	
3. For a Fiber HUB and Fiber Remote Terminal Arrangement					\$ 0.00	\$ 0.00	
4. For Fiber Ring Hub Arrangements (Extensions)					\$ 0.00	\$ 0.00	
CEV HOUSING per CIRCUIT by SERVICE LEVEL :							
For CEV's used as fiber hubs for FO Multiplexer equipment							\$ 0.00
For CEV's used as remote terminals for CDLC equipment							\$ 8.33
[Unit Investment denotes average weighted unit E.F.I Investment at DS0, DS1, or DS3 service equiv.]							

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C:\123R24\LCATR070\INVEST.WK1

TABLE - EQUIP_INV

HELP INFORMATION

Bellcore

LCAT Rel: 1.0.4

Issued: 07/31/95

LCAT Commands Description

This Command will allow the User -

EDIT To Enter Values with DIRECT Input on a cell by cell basis.
 CLEAR To Erase the Display's Current Data Values, then Perform DIRECT Input.

Line Items Description

This Equipment Item Represents -

Ofc Rept Bay A Wideband Special Service Circuits Requirement, included in other DLC COE LINE.
 Integrated DLC The DLC Class for Source Bandwidth from Digital Line Cards or DSX Term for DS1.
 Universal DLC The DLC Class for Source Bandwidth from Analog Subs Line Cards or Voice Grade Term.

See Circuit Designs:

COE Field Item 1	FITL/CDLC Hub Extension or FITL non-Hubbing Arrangements, CO End Equip.	2,3,4 & 6
REM Field Item 1	FITL/CDLC Hub Extension or FITL non-Hubbing Arrangements, REM End Equip.	2,3,4 & 6
COE Field Item 2	FITL Hubbed Arrangements, CO to HUB Span Equip, CO End.	1 & 5
REM Field Item 2	FITL Hubbed Arrangements, CO to HUB Span Equip, Remote Site.	1 & 5
REM Field Item 3	FITL Hubbed Arrangements, HUB to RT Span Equip, Remote Sites.	1 & 5
REM Field Item 4	FITL Hubbed Arrangements, RING Span Equip, HUB Span	1,2,5 & 6

NOTE: THE DATA VALUES FOR THESE ITEMS SHOULD ALWAYS REPRESENT
 THE CIRCUIT EQUIVALENTS FOR THE BANDWIDTH DELIVERY OF THE STUDIED SERVICE

***** THE INPUT DATA NAMES IN RED CROSS - REFERENCE TO THEIR DATA CATALOG NAMES *****
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C:\123924\LCAT070\LOADING		LOOP COST ANALYSIS TOOL		Belcore®
TABLE - ADDNL_INV Sheet 1 of 2 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE: OHIO		INVESTMENT RELATED FACTOR TABLES ADJUSTMENT AND LOADING FACTORS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - RESIDENCE LIN		LCAT Ver: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 17-Oct-96 TIME: 07:21
PLANT UTILIZATION FACTORS:				
Land	1.0000	ALL Non-Traffic Sensitive Equipment		1.0000
Building	1.0000	ALL Digital Loop Carrier Equip., or		0.7000
ALL Copper Cables, or		CO DLC Channel Unit		0.7000
Copper Feeder Cable	0.6000	REM DLC Channel Unit		0.7000
Copper Distribution Cable	0.3500	CO DLC Multiplex System		0.7000
Copper Entrance Cable	1.0000	REM DLC Multiplex System		0.7000
Copper Building Cable	0.3500	CO Digital Signal Crossconnect Bay		0.7000
Copper Building Terminal	0.3500	REM Digital Signal Crossconnect Bay		0.7000
ALL Fiber Cables, or		ALL Fiber Optic Multiplex Equip., or		1.0000
Fiber Feeder Cable	0.3300	CO Fiber Optic Channel Unit		1.0000
Fiber Distribution Cable		REM Fiber Optic Channel Unit		1.0000
Fiber Entrance Cable		CO Fiber Optic Multiplex System		1.0000
Fiber Building Cable		REM Fiber Optic Multiplex System		1.0000
Fiber Building Terminal		CO Lightguide Terminating Equipment		1.0000
		REM Lightguide Terminating Equipment		1.0000
Poles	1.0000	Remote Housing: CEV		1.0000
Conduit	1.0000	PC Hut		1.0000
		Comm. Svc. Cab.		1.0000

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TABLE - ADDNL_INV
Sheet 1 of 2

HELP SCREEN**Belcore** (R)

LCAT Rel : 1.0.4

Issued : 3/31/95

NOTE :

- ① THIS VALUE REPRESENTS GLOBAL (CATEGORY 1) INPUT FOR THESE ITEMS.
AN ENTRY SETS CATEGORY 2 VALUES TO THE CATEGORY 1 VALUE BY THE SYSTEM.
- ② THE VALUES IN THIS TABLE REPRESENT DETAIL FACTORS (CATEGORY 2 VALUES).
THESE ITEMS ARE APPLIED IN THE COST EQUATIONS FOR THE COMPONENT THEY IDENTIFY.
ENTRIES NEGATE CATEGORY 1 VALUES BY THE SYSTEM.
- ③ THE DESIGNATION "CO" DENOTES CENTRAL OFFICE LOCATED.
THE DESIGNATION "REM" DENOTES REMOTE SITE LOCATED.

***** PLEASE REFER TO THE USER MANUAL FOR INFORMATION *****
***** CONCERNING ANY OTHER DATA INPUT ITEMS ON THIS DISPLAY *****

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C:\123R24\LCATR070\LOADING		LOOP COST ANALYSIS TOOL		Bellcore [®]																																																																					
TABLE = ADDNL_INV Sheet 2 of 2 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE: OHIO		INVESTMENT RELATED FACTOR TABLES ADJUSTMENT AND LOADING FACTORS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - RESIDENCE LINE		LCAT Rel: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 17-Oct-95 TIME: 07:21																																																																					
SEGMENT <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">DISTRIBUTION</th> <th style="text-align: center;">FEEDER</th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">②</td> <td style="text-align: center;">use <u>DEFAULT</u></td> </tr> <tr> <td>POLE LOADINGS:</td> <td></td> <td></td> </tr> <tr> <td>Copper Cable Pole Investment Factor</td> <td style="text-align: center;">0.2530</td> <td style="text-align: center;">0.2530</td> </tr> <tr> <td>Copper Cable Pole Unit Investment</td> <td></td> <td></td> </tr> <tr> <td>Fiber Cable Pole Investment Factor</td> <td style="text-align: center;">0.1965</td> <td style="text-align: center;">0.1965</td> </tr> <tr> <td>Fiber Cable Pole Unit Investment</td> <td></td> <td></td> </tr> <tr> <td>CONDUIT LOADINGS:</td> <td></td> <td></td> </tr> <tr> <td>Copper Cable Conduit Investment Factor</td> <td style="text-align: center;">0.5165</td> <td style="text-align: center;">0.5165</td> </tr> <tr> <td>Copper Cable Conduit Unit Investment</td> <td></td> <td></td> </tr> <tr> <td>Fiber Cable Conduit Investment Factor</td> <td style="text-align: center;">0.5232</td> <td style="text-align: center;">0.5232</td> </tr> <tr> <td>Fiber Cable Conduit Unit Investment</td> <td></td> <td></td> </tr> </tbody> </table> DROP WIRE (DW) INVESTMENT ADJUSTMENT: The Cable PFI is being Adjusted for DW? NO <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Aerial Cable</td> <td></td> </tr> <tr> <td>Buried Cable</td> <td></td> </tr> <tr> <td>Underground Cable</td> <td></td> </tr> </tbody> </table> use <u>DEFAULT</u> ① ② for: <u>CENT. OFC.</u> <u>REMOTE SITE</u> LAND LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Other or <u>ALL</u> ①</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> </tbody> </table> BUILDING LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Other or <u>ALL</u> ①</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> </tbody> </table> MISC. EQUIPMENT & POWER LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Other or <u>ALL</u> ①</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> </tbody> </table>						DISTRIBUTION	FEEDER		②	use <u>DEFAULT</u>	POLE LOADINGS:			Copper Cable Pole Investment Factor	0.2530	0.2530	Copper Cable Pole Unit Investment			Fiber Cable Pole Investment Factor	0.1965	0.1965	Fiber Cable Pole Unit Investment			CONDUIT LOADINGS:			Copper Cable Conduit Investment Factor	0.5165	0.5165	Copper Cable Conduit Unit Investment			Fiber Cable Conduit Investment Factor	0.5232	0.5232	Fiber Cable Conduit Unit Investment			Aerial Cable		Buried Cable		Underground Cable		Other or <u>ALL</u> ①	0.0056	0.0056	Digital Loop Carrier	0.0056	0.0056	Fiber Optic Mux	0.0056	0.0056	Other or <u>ALL</u> ①	0.1316	0.1316	Digital Loop Carrier	0.1316	0.1316	Fiber Optic Mux	0.1316	0.1316	Other or <u>ALL</u> ①	0.1127	0.1127	Digital Loop Carrier	0.1127	0.1127	Fiber Optic Mux	0.1127	0.1127
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TABLE - ADDNL_INV
Sheet 2 of 2

HELP SCREEN

Bellcore^(R)

LCAT Rel: 1.0.4

Issued: 3/31/95

Copper Cable Pole Investment Factor	cpiff	__dst	__fdr	Based on aerial copper cable investment relationship to pole
Copper Cable Pole Unit Investment	cpifi	__dst	__fdr	Per unit length of aerial copper cable effective pair feet placed.
Fiber Cable Pole Investment Factor	fpiff	__dst	__fdr	Based on aerial fiber cable investment relationship to pole
Fiber Cable Pole Unit Investment	fpifi	__dst	__fdr	Per unit length of aerial fiber cable effective pair feet placed.
Copper Cable Conduit Investment Factor	cucff	__dst	__fdr	Based on underground copper cable investment relationship to conduit investment
Copper Cable Conduit Unit Investment	cucfi	__dst	__fdr	Per unit length of underground copper cable effective pair feet placed.
Fiber Cable Conduit Investment Factor	fucff	__dst	__fdr	Based on underground fiber cable investment relationship to conduit investment
Fiber Cable Conduit Unit Investment	fucfi	__dst	__fdr	Per unit length of underground fiber cable effective pair feet placed.

NOTES

- ① THIS VALUE REPRESENTS GLOBAL (CATEGORY 1) INPUT FOR THESE ITEMS.
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ENTRIES NEGATE CATEGORY 1 VALUES BY THE SYSTEM.

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C:\123R24\LCATR070\SPAN		LOOP COST ANALYSIS TOOL		Bellcore [®]																		
INPUT - PLANT_CHAR. Sheet 1 / 5 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO		LOOP FACILITY INPUT LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - RESIDENCE LINE		LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 16-Oct-96 TIME: 08:17																		
FLAT RATE BASIS DATA WITHOUT COST BANDS FOR A NETWORK CIRCUIT CASE STUDY																						
LOOP TOPOLOGY Loop FEEDER Network Configuration Is (S)tar Or (R)ing Average Number Of Hubs In Each Ring Loop DISTRIBUTION Network Configuration Is (S)tar or (B)us SPAN LENGTHS ① Average Distance From the Central Office to the Service Access Point ② Average Distance From the Serving Area Interface to the Service Access Point ③ Average Distance From the Remote Terminal to the Serving Area Interface ④ Average Distance From the Central Office to the Fiber Hub or S.A.I. ⑤ Average Distance From the Fiber Hub to the Remote Terminal		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">ACTION SEGMENT</th> </tr> </thead> <tbody> <tr> <td>PRIMARY</td> <td>STAR</td> </tr> <tr> <td>PRIMARY</td> <td>NA</td> </tr> <tr> <td>DISTRIBUTION</td> <td>STAR</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>TOTAL LOOP</td> <td style="text-align: right;">7184.0</td> </tr> <tr> <td>DISTRIBUTION</td> <td style="text-align: right;">1103.0</td> </tr> <tr> <td>SUB-PRIMARY</td> <td style="text-align: right;">300.0</td> </tr> <tr> <td>PRIMARY</td> <td style="text-align: right;">5781.0</td> </tr> <tr> <td>PRIMARY-EXTENSION</td> <td></td> </tr> </tbody> </table>			ACTION SEGMENT		PRIMARY	STAR	PRIMARY	NA	DISTRIBUTION	STAR	TOTAL LOOP	7184.0	DISTRIBUTION	1103.0	SUB-PRIMARY	300.0	PRIMARY	5781.0	PRIMARY-EXTENSION	
ACTION SEGMENT																						
PRIMARY	STAR																					
PRIMARY	NA																					
DISTRIBUTION	STAR																					
TOTAL LOOP	7184.0																					
DISTRIBUTION	1103.0																					
SUB-PRIMARY	300.0																					
PRIMARY	5781.0																					
PRIMARY-EXTENSION																						
LOOP LENGTH AT EACH COST BAND BAND 1 BAND 2 BAND 3 BAND 4 BAND 5		DISTRIBUTION OF COST BANDS IN THE NETWORK BAND 1 BAND 2 BAND 3 BAND 4 BAND 5																				
LAST 7184.0		LAST 1.0000 Hint																				

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C:\123R24\LCATR0701SPAN		LOOP COST ANALYSIS TOOL		Bellcore [®]	
INPUT - PLANT_CHAR. Sheet 1 / 1		LOOP FACILITY INPUT LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS FOR		LCAT Rel : 1.0.4 Issued : 07/31/95	
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR : 1996		STUDY YR : 1996	
CITY / AREA: CINCINNATI		LOOP STUDY YEAR : 1996		TEST CASE : 1	
STATE / PROV: OHIO		SERVICE CLASS : BAND 1 - RESIDENCE LINE		LAST UPDATE : 15-Oct-96	
				TIME : 08:17	
FLAT RATE BASIS DATA WITHOUT COST BANDS FOR A NETWORK CIRCUIT CASE STUDY					
<u>LOOP LENGTH</u> ① 7184 FEET CONFIDENTIAL NOTICE MULTIPLE COPIES PROVIDED TO FCC					

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C:\123R24\LCAT070\SPAN		LOOP COST ANALYSIS TOOL		Bellcore TM	
INPUT - PLANT_CHAR Sheet 1 of 2		LOOP FACILITY INPUT HELP SCREEN		LCAT Rel : 1.0.4 Issued : 07/31/95	
AVERAGE NETWORK STUDY - This mode of LCAT is used where the cost study may be broad in scope and lack sufficient detail data to use the Loop OSP cost calculators on Sheets 2, 3, and 4. Instead, it relies on table data from the FACILITY file, representing jurisdictional average value mixes or proportions. Input for these values is placed on Sheet 1. INDIVIDUAL CIRCUIT STUDY - This mode of LCAT is used to cost study circuit specifics on an Individual Circuit Basis for Request For Proposals, Special Constructions, and CENTREX-like Services. Data input is usually actual per the circuit configuration's span by span requirements as detailed by Product Management. This mode will require the use of the Loop OSP calculators on Sheets 2, 3, and 4. DATA SAMPLE NETWORK STUDY - This mode of LCAT functions well with the Loop OSP cost calculators on Sheets 2, 3, and 4. The data samples are inputted on the sheets cumulatively and cost calculated directly. Then the weightings formulae are applied to create an average weighted Loop cost per pair foot. BANDWIDTH AVERAGING - This feature of LCAT permits study level weighting of fiber multiplexer bandwidth transport. The range of multiplexers goes from 1.5 Mbps through 1.7 Gbps and designating the mix of usage develops a more precise unit investment to the feeder calculations. ***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES ***** *****PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION***** PRESS 'ENTER' TO RETURN TO THE MAIN MENU					

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LOOP COST ANALYSIS TOOL		Belcore [®]
C:\123R24\LCATR070\SPAN		LCAT Rev: 1.0.4
INPUT - PLANT_OPRM.		Issued: 07/31/95
Sheet 2 of 2		
HELP SCREEN		
COST DETAILS	When the Loop Study is specified as <u>DISTANCE SENSITIVE</u>, the data required is inputted as part of STUDY SETUP input and the ROUTE TO AIR RATIO [B] on WORKSHEET F and the resultant Rate Band delimiters are copied into the RATE BANDS field on SCREEN 1 by the System. The SPAN LENGTHS data is input by the User. When the Loop Study is specified as <u>FLAT RATE</u>, then ALL the data required is input on SCREEN 1 in the COST BANDS field and/or SPAN LENGTHS field by the User.	
LOOP TOPOLOGY	When the Loop Topology (circuit layout format) for the Feeder Layer is specified as <u>STAR</u>, the Primary Feeder (C.O. to HUB) is variable and the Feeder Extension (HUB to R.T.) is held as an average length link. When the Loop Topology is specified as <u>RING</u>, the Primary Feeder is held as an average length link and the Feeder Extension is variable. This Input Sheet is adjusted to each possibility. The SPAN LENGTHS input cells are rearranged to support the Topology specified and only request the necessary data that is required.	
***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES ***** ***** PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION *****		
PRESS 'ENTER' TO RETURN TO THE MAIN MENU		

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C:\123R24\LCATR070\SPAN		LOOP COST ANALYSIS TOOL				Bellcore [®]	
INPUT - PLANT_CHAR. Sheet 2a / 5		LOOP FACILITY INPUT FIBER OPTIC CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER				LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: 0		INVESTMENT YEAR: 1996				STUDY YR: 1996	
CITY / AREA: 0		LOOP STUDY YEAR: 1996				TEST CASE: 1	
STATE / PROV: 0		SERVICE CLASS: BAND 1 - RESIDENCE LINE				LAST UPDATE: 16-Oct-96	
						TIME: 08:17	
NETWORK CIRCUIT LAYOUT STUDIES				WORKSHEET A			
CAPACITY		AERIAL FIBER		BURIED FIBER		UNDERGROUND FIBER	
[C]	idx	CUMULATIVE FEEDER LENGTH [D _A]	EFFECTIVE LENGTH BY PAIR FOOT [E _A]	CUMULATIVE FEEDER LENGTH [D _B]	EFFECTIVE LENGTH BY PAIR FOOT [E _B]	CUMULATIVE FEEDER LENGTH [D _U]	EFFECTIVE LENGTH BY PAIR FOOT [E _U]
4 FIBER CABLE 2 pr			0.0		0.0		0.0
6 FIBER CABLE 3 pr			0.0		0.0		0.0
12 FIBER CABLE 6 pr			0.0		0.0		0.0
18 FIBER CABLE 9 pr			0.0		0.0		0.0
24 FIBER CABLE 12 pr			0.0		0.0		0.0
36 FIBER CABLE 18 pr			0.0		0.0		0.0
48 FIBER CABLE 24 pr			0.0		0.0		0.0
60 FIBER CABLE 30 pr			0.0		0.0		0.0
72 FIBER CABLE 36 pr			0.0		0.0		0.0
84 FIBER CABLE 42 pr			0.0		0.0		0.0
96 FIBER CABLE 48 pr			0.0		0.0		0.0
144 FIBER CABLE 72 pr			0.0		0.0		0.0
192 FIBER CABLE 96 pr			0.0		0.0		0.0
216 FIBER CABLE 108 pr			0.0		0.0		0.0
CUMULATIVE LENGTHS OF FEEDER:				EFFECTIVE CABLE LENGTHS BY CABLE PAIR FOOT:			
AERIAL FIBER SUBTOTAL		0		AERIAL FIBER SUBTOTAL		0.0	
BURIED FIBER SUBTOTAL		0		BURIED FIBER SUBTOTAL		0.0	
UNDGRD FIBER SUBTOTAL		0		UNDGRD FIBER SUBTOTAL		0.0	
FIBER SUBTOTAL		0		FIBER SUBTOTAL		0.0	

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C:\123R24\LCATR070\SPAN		LOOP COST ANALYSIS TOOL				Bellcore	
PLANT CHAR - WORKSHEET 25 Sheet 2b / 5		LOOP FACILITY INPUT FIBER OPTIC CABLE SPAN INVESTMENT FOR THE FEEDER LAYER				LCAT Rel : 1.0.4 Issued : 07/31/95	
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996				STUDY YR : 1996	
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996				TEST CASE : 1	
STATE: OHIO		SERVICE CLASS: BAND 1 - RESIDENCE LINE				LAST UPDATE: 16-Oct-96	
						TIME: 08:17	
NETWORK CIRCUIT LAYOUT STUDIES				WORKSHEET B			
EFFECTIVE CHANNEL LENGTH BY CABLE PAIR FOOT [A] = [E] WKSH A / [F] WKSH C CUMULATIVE INVESTMENT BY CABLE CHANNEL FOOT [B] = [A] * [C] * UNIT INV FACILITY WKSH B							
CAPACITY		AERIAL FIBER		BURIED FIBER		UNDERGROUND FIBER	
For these sizes ...	[C]	idx	[A]	[B]	[A]	[B]	[A]
4 FIBER CABLE	2 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
6 FIBER CABLE	3 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
12 FIBER CABLE	6 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
18 FIBER CABLE	9 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
24 FIBER CABLE	12 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
36 FIBER CABLE	18 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
48 FIBER CABLE	24 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
60 FIBER CABLE	30 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
72 FIBER CABLE	36 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
84 FIBER CABLE	42 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
96 FIBER CABLE	48 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
144 FIBER CABLE	72 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
192 FIBER CABLE	96 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
216 FIBER CABLE	108 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
SUBTOTAL			\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00

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C:\123R24\LCATR070\SPAN		LOOP COST ANALYSIS TOOL										Bellcore	
PLANT CHAR - WORKSHEET 3B Sheet 3b / 5		LOOP FACILITY INPUT COPPER CABLE SPAN INVESTMENT FOR THE FEEDER LAYER FOR										LCAT Rel : 1.0.4 Issued : 07/31/95	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996										STUDY YR : 1996 TEST CASE : 1 LAST UPDATE: 16-Oct-96 TIME: 09:17	
SERVICE CLASS: BAND 1 - RESIDENC													
NETWORK CIRCUIT LAYOUT STUDIES													
WORKSHEET B													
CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT													
CABLE SHEATH SIZES		CAPACITY	26 GA.			24 GA.			22 GA.				
	idx		AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD		
40 COPPER CABLE	20 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
50 COPPER CABLE	25 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
80 COPPER CABLE	40 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
100 COPPER CABLE	50 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
140 COPPER CABLE	70 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
200 COPPER CABLE	100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
400 COPPER CABLE	200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
600 COPPER CABLE	300 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
800 COPPER CABLE	400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1200 COPPER CABLE	600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1800 COPPER CABLE	900 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2400 COPPER CABLE	1200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
3000 COPPER CABLE	1500 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
3600 COPPER CABLE	1800 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4200 COPPER CABLE	2100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ 0.00	
4800 COPPER CABLE	2400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ 0.00	
5400 COPPER CABLE	2700 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ 0.00	
6000 COPPER CABLE	3000 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ 0.00	
7200 COPPER CABLE	3600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ 0.00	
8400 COPPER CABLE	4200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ 0.00	
AERIAL CABLE SUBTOTAL			0.00			0.00			0.00				
BURIED CABLE SUBTOTAL				0.00			0.00			0.00			
UNDGRND CABLE SUBTOTAL					0.00			0.00			0.00		

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C:\123R24\LCATR070\SPAN		LOOP COST ANALYSIS TOOL			Bellcore					
INPUT - PLANT_CHAR. Sheet 4a / 5		LOOP FACILITY INPUT COPPER CABLE SPAN CHARACTERISTICS FOR THE DISTRIBUTION LAYER FOR			LCAT Ref: 1.0.4 Issued: 07/31/95					
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - RESIDENC			STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 16-Oct-96 TIME: 08:17					
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET A								
		CUMULATIVE LENGTHS BY CABLE PAIR FOOT								
CABLE SHEATH SIZES	CAPACITY ICX	26 GA.			24 GA.			22 GA.		
		AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40 COPPER CABLE	20 pr									
50 COPPER CABLE	25 pr									
80 COPPER CABLE	40 pr									
100 COPPER CABLE	50 pr									
140 COPPER CABLE	70 pr									
200 COPPER CABLE	100 pr									
400 COPPER CABLE	200 pr									
600 COPPER CABLE	300 pr									
800 COPPER CABLE	400 pr									
1200 COPPER CABLE	600 pr									
1800 COPPER CABLE	900 pr									
2400 COPPER CABLE	1200 pr									
3000 COPPER CABLE	1500 pr									
3600 COPPER CABLE	1800 pr									
4200 COPPER CABLE	2100 pr									
4800 COPPER CABLE	2400 pr									
5400 COPPER CABLE	2700 pr									
6000 COPPER CABLE	3000 pr									
7200 COPPER CABLE	3600 pr									
8400 COPPER CABLE	4200 pr									
SUB TOTALS		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTALS				0.0			0.0			0.0
										0.0
										0.0
										0.0
										0.0

NOTICE
PRIOR TO RELEASE
PROVIDED TO PUGG

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PLANT CHAR - WORKSHEET 48
Sheet 4b / 5

LOOP COST ANALYSIS TOOL

Bellcore

LOOP FACILITY INPUT
COPPER CABLE SPAN INVESTMENT FOR THE DISTRIBUTION LAYER
FORLCAT Ref : 1.0.4
Issued : 07/31/96COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATIINVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996STUDY YR : 1996
TEST CASE : 1
LAST UPDATE: 16-Oct-96

STATE: OHIO

SERVICE CLASS: BAND 1 - RESIDENC

TIME: 08:17

NETWORK CIRCUIT LAYOUT STUDIES

WORKSHEET B

CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT

CABLE SHEATH SIZES	CAPACITY idx		26 GA.			24 GA.			22 GA.		
			AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40 COPPER CABLE	20 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50 COPPER CABLE	25 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80 COPPER CABLE	40 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100 COPPER CABLE	50 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140 COPPER CABLE	70 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200 COPPER CABLE	100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400 COPPER CABLE	200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600 COPPER CABLE	300 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800 COPPER CABLE	400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 COPPER CABLE	600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 COPPER CABLE	900 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2400 COPPER CABLE	1200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3000 COPPER CABLE	1500 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3600 COPPER CABLE	1800 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4200 COPPER CABLE	2100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4800 COPPER CABLE	2400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5400 COPPER CABLE	2700 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6000 COPPER CABLE	3000 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7200 COPPER CABLE	3600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8400 COPPER CABLE	4200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AERIAL CABLE SUBTOTAL			0.00			0.00			0.00		
BURIED CABLE SUBTOTAL				0.00			0.00			0.00	
UNDGRD CABLE SUBTOTAL					0.00			0.00			0.00

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INPUT - PLANT_CHAR.

Sheet 5 / 5

LOOP FACILITY INPUT

DIGITAL LOOP CARRIER CABLE PAIR EQUIVALENTS AND MIX

FOR

INVESTMENT YEAR : 1996

LOOP STUDY YEAR : 1996

SERVICE CLASS : BAND 1 - RESIDENCE LINE

LCAT Rel : 1.0.4

Issued : 07/31/95

STUDY YR : 1996

TEST CASE : 1

LAST UPDATE : 16-Oct-96

TIME : 08:17

COMPANY: CINCINNATI BELL TEL

CITY / AREA: CINCINNATI

STATE/PROV: OHIO

FIBER BANDWIDTH

TRANSMISSION FLOW IS : ☒ UNIDIRECTIONAL

☐ BIDIRECTIONAL

LEVEL OF SERVICE : NARBAND

BITRATE INDEX	1	2	3	4	5	6	7			
FIBER BANDWIDTH	45 Mbps	90 Mbps	155 Mbps	180 Mbps	0	0	0	SERVICE	PROTECTION	WEIGHTED
MUX DS3 MULTIPLIER	1	2	3	4	0	0	0	LEVEL		EQUIVALENT
VOICE GRADE CHANNELS	672	1344	2016	2688	0	0	0	MULTIPLE	n : 1	CHANNELS
								(SLM)	[E]	PER FO PR
										[F]

FEEDER - PRIMARY

0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1	1979.04
--------	--------	--------	--------	--------	--------	--------	---	---	---------

FEEDER - EXTENSION

0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1	1979.04
--------	--------	--------	--------	--------	--------	--------	---	---	---------

FOOTNOTES

1 Where Service Level Multiple EQUALS {1 for NARBAND, 28 for WIDEBAND, 672 for BRDBAND} TIMES {2 for Unidirectional and 1 for Bidirectional}.

2 Where Wtd Eqv Chan per FO Pr [F] EQUALS {The Avg Wtd VGE for BR1 -> 7} DIVIDED BY {The [SLM]} TIMES {1 PLUS 1 OVER PROT [E]}

PLANT CHAR. - WORKSHEET DS
Sheet 1 / 1

COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 16-Oct-96
TIME: 08:17

WORKSHEET DS

DIGITAL SIGNAL TABLE (digital db)						
SELECT	MODE	HIERARCHY	BNDWOTHS	S1MULT	DS\$MULT	VGE MEDIA
0						
1		DS1	1.5 Mbps	1	0.04	24 BIDIR 2WCU CA
2	MODE3	DS1	1.5 Mbps	1	0.04	24 UNDIR 4WCU CA
3		V11	1.5 Mbps	1	0.04	24 UNDIR FIBER
4		V12	2 Mbps	1	0	UNDIR FIBER
5		E1	2 Mbps	1	0.06	30 BIDIR 2WCU CA
6	MODE1	DSTC	3.2 Mbps NA			48 BIDIR 2WCU CA
7	MODE2	DSTC	3.2 Mbps	2	0.07	48 BIDIR 2WCU CA
8		V13	3.2 Mbps	2	0.07	56 UNDIR FIBER
9			4 Mbps	2	0	60
10		DS2	6.3 Mbps	4	0.14	72 BIDIR 2WCU CA
11	MODE4	DS2	6.3 Mbps NA		0	72 BIDIR 2WCU CA
12		V16	6.3 Mbps	4	0.14	84 UNDIR FIBER
13		E2	8 Mbps	4	0.25	120 BIDIR 2WCU CA
14		E3	34 Mbps	16		480
15		DS3	45 Mbps	28		672 BIDIR 2WCU CA
16	STS1	OC1	50 Mbps	28		672 UNDIR FIBER
17	X		90 Mbps	2		1344 UNDIR FIBER
18	X		90 Mbps	2		1344 BIDIR MW RADIO
19		DS4	135 Mbps	3		2016 UNDIR FIBER
20			135 Mbps	3		2016 BIDIR MW RADIO
21		DS4NA	139 Mbps	3		2016 UNDIR FIBER
22		E4	140 Mbps	3		1920 UNDIR FIBER
23		F140	139 Mbps	6		4032 BIDIR COAX
24			139 Mbps	6		4032 BIDIR COAX
25	X	OC3	155 Mbps	3		2016 UNDIR FIBER
26	X		180 Mbps	4		2688 UNDIR FIBER
27			417 Mbps	9		6048 UNDIR FIBER
28		OC9	466 Mbps	9		6048 UNDIR FIBER
29		OC12	560 Mbps	12		7680 UNDIR FIBER
30			565 Mbps	12		8064 UNDIR FIBER
31			1.2 Gbps	24		16128 UNDIR FIBER
32			1.7 Gbps	36		24192 UNDIR FIBER
33		OC24	1.8 Gbps	24		24192 UNDIR FIBER
34			2.5 Gbps	24		34560 UNDIR FIBER
35						
36						
0	1	2	3	4	5	6
OFFSET						

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PLANT CHAR. - WORKSHEET F
Sheet 1 of 1

LOOP LENGTH DEVELOPMENT WORKSHEET

LCAT Rel: 1.0.4

Issued: 07/31/95

1996

COMPANY: CINCINNATI BELL TEL.
CITY/AREA: CINCINNATI
STATE: OHIOFOR
INVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 1 - RESIDENCE
WORKSHEET FSTUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 16-Oct-96
TIME: 08:17

[A] BAND NUMBER [C]	[B] DISTANCE INCREMENTS: NUMBER OF BANDS: TOTAL WORKING FEET [D=input]	[R] 0 / 4 MILE BETWEEN BANDS 0 TO BE CARRIED INTO THE STUDY TOTAL WORKING FEET [E=(B*D)]	[K] TOTAL AIR FEET [F=A*C*K]	[R] ROUTE TO AIR RATIO: UNIT MILE/FEET CONSTANT: LOOP LENGTH @ MIDPOINT [G (see note)]	[H] WORKING FEET @ MIDPOINT [H=G*R]
1		0		0	0
2		0		0	0
3		0		0	0
4		0		0	0
5		0		0	0

NOTE - SPAN MIDPOINT [G] equals the $\text{SQRT}((F_{\text{CURR}}^2/2) + (F_{\text{PREV}}^2/2))$

ERROR MESSAG 0

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C:\123R24\LCATR070.SPAN PLANT C/PAR. - WORKSHEET SA Sheet 1 / 1 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO	LOOP COST ANALYSIS TOOL	Bellcore LCAT Ver: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 16-Oct-96 TIME: 08:17
WORKSHEET SA		

Sub Feeder Allocation Table

Sub Feeder Allocation Table										
cur_lplgth	segment alloc									
7184										
dlcdepl = 12000	[NO COLOCATED]dstops = BUS									
[B]distspa = 1103	[COLOCATED]dstops = BUS									
nom_rangecur - disubfeed	prfeeder subfeedprfeeder subfeed									
[C]	[D=C-I]	[E]	[F=D-E]	[G]	[H=D-G]	[I]	[J=C-I]	[K]	[L=C-K]	[M=A-C]
500	0	0	0	0	0	500	0	500	0	6684
1000	0	0	0	0	0	1000	0	1000	0	6184
2000	897	897	0	897	0	2000	0	2000	0	5184
3000	1897	1897	0	1897	0	3000	0	3000	0	4184
4000	2897	2897	0	2897	0	4000	0	4000	0	3184
5000	3897	3897	0	3897	0	5000	0	5000	0	2184
6000	4897	4897	0	4897	0	6000	0	6000	0	1184
7000	5897	5897	0	5897	0	7000	0	7000	0	84
8000	6897	6897	0	6897	0	8000	0	8000	0	-816
9000	7897	7897	0	7897	0	9000	0	9000	0	-1816
10000	8897	8897	0	8897	0	10000	0	10000	0	-2816
11000	9897	9897	0	9897	0	11000	0	11000	0	-3816
12000	10897	5448.5	5448.5	0	10897	6000	6000	0	12000	-4816
13000	11897	5948.5	5948.5	0	11897	6500	6500	0	13000	-5816
14000	12897	6448.5	6448.5	0	12897	7000	7000	0	14000	-6816
15000	13897	6948.5	6948.5	0	13897	7500	7500	0	15000	-7816
16000	14897	7448.5	7448.5	0	14897	8000	8000	0	16000	-8816
17000	15897	7948.5	7948.5	0	15897	8500	8500	0	17000	-9816
18000	16897	8448.5	8448.5	1000	15897	9000	9000	1000	17000	-10816
19000	17897	8948.5	8948.5	2000	15897	9500	9500	2000	17000	-11816
20000	18897	9448.5	9448.5	3000	15897	10000	10000	3000	17000	-12816
80000	78897	10897	68000	4000	74897	10897	69103	4000	78897	-72816

RULES

ASSUMPTION - Table LOOKUP will select from the lower NOM_RANGE of a CUR_SEG_LGTH intermediate value

If CUR_SEG_LGTH is

- = < DISTSPAN, then CUR_SEG_LGTH^{dist} Equals CUR_SEG_LGTH - NOM_RANGE difference
- > DISTSPAN and < DLCDEPL, then CUR_SEG_LGTH^{dist} Equals CUR_SEG_LGTH - NOM_RANGE difference
- = > DLCDEPL, then CUR_SEG_LGTH^{dist} Equals CUR_SEG_LGTH - NOM_RANGE difference

CUR_SEG_LGTH - Calculation Assumptions

The DISTSPAN can not exceed the DLCDEPL value input on CRITERIA.

Therefore, set the DLCDEPL at the DISTSPAN to get an ALL FIBER Network.

**OHIO ONLY
3 Geographic Areas**

07/26/96
Revised

Band 1

		Residence			Business		
		Average F1 Length A	Average F2 Length B	Average Loop C	Average F1 Length D	Average F2 Length E	Average Loop F
1	0-12,000	6,081	1,103	7,184	5,765	638	6,403
2	# Of Entries	107			255		
3	12,001-INFINITY	14,881	2,346	17,226	13,630	2,046	15,677
4	# Of Entries	53			38		
5	Ratio						
6	0-12,000	0.5744			0.7433		
7	12,001-INFINITY	0.4256			0.2567		
		1.0000			1.0000		

Band 2

8	0-14,000	6,697	1,836	8,534	5,698	1,013	6,711
9	# Of Entries	69			90		
10	14,001-INFINITY	19,582	2,699	22,282	21,785	1,989	23,774
11	# Of Entries	70			74		
12	Ratio	0.4964			0.5488		
13	0-14,000	0.5036			0.4512		
14	14,001-INFINITY	1.0000			1.0000		

Band 3

15	0-18,000	4,845	1,981	6,825	4,612	1,096	5,608
16	# Of Entries	46			47		
17	18,001-INFINITY	23,301	4,826	28,127	23,881	3,479	27,360
18	# Of Entries	56			90		
19	Ratio	0.4510			0.5775		
20	0-18,000	0.5490			0.4225		
21	18,001-INFINITY	1.0000			1.0000		

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A
B
C
D
E
F
GCM123R24\LCAT089\RESULTS1
OUTPUT - REPORT D
SHEET 1 of 1**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT SUMMARY REPORT**Bellicore[®]**

LCAT Rel: 1.0.4

Issued: 7/31/95

COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: TOTAL TECHNOLOGIES
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 1 - RESIDENCE LIN
TOTAL LOOP LENGTH: 17226 FEETSTUDY YR: 1996
TEST CASE: 1
RUN DATE: 22-Jan-97
TIME: 13:54Loop Span Set Weighting: UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

WEIGHTED

	PLANT NAME	SEG. NAME	FEEDER		SUB-	DISTRIBUTION NETWORK		TOTAL LOOP
			PRIMARY	EXTENSION		INTERFACE	INTERFACE	
	PLANT	CODE						
	ITEM DESCRIPTION	SEG. LGTH.						
7	SHARED RESOURCES							
8	LAND	20C	\$ 0.02	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0217
9	BUILDING	10C	\$ 0.64	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.6439
10	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
11	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
12	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
13	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
14	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
15	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
16	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
17	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
18	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
19	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
20	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
21	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
22	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
23	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
24	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
25	MISC. COM EQP & PWR	57C	\$ 0.08	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0801
26	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
27	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
28								
29	DIRECT RESOURCES							
30	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
31	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
32	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.4513
33	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
34	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.02	\$ 5.28	\$ 0.00	\$ 5.3000
35	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.04	\$ 0.00	\$ 2.0400
36	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.15	\$ 2.91	\$ 0.00	\$ 3.0600
37	CO EQPT - LOW CAP TERM	257C	\$ 2.38	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.3827
38	CO EQPT - LOW CAP CHAN	257C	\$ 3.94	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 3.9401
39	CO EQPT - HI CAP TERM	857C	\$ 0.73	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.7268
40	CO EQPT - HI CAP CHAN	857C	\$ 1.23	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.2325
41	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
42	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
43	AERIAL CABLE (FIBER)	822C	\$ 0.03	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0282
44	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
45	UNDERGROUND (FO) CA.	85C	\$ 0.07	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0692
46	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
47	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
48	POLE LINE	1C	\$ 0.01	\$ 0.00	\$ 0.01	\$ 1.26	\$ 0.00	\$ 1.2771
49	CONDUIT	4C	\$ 0.03	\$ 0.00	\$ 0.05	\$ 1.00	\$ 0.00	\$ 1.1139
50								
51	SPAN SUMMARY		\$ 9.17	\$ 0.00	\$ 0.28	\$ 12.52	\$ 2.45	\$ 24.37
52								\$ 24.37
53								
54								
55								

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C:\123R24\LCATR089\RESULTS1
OUTPUT - COST_REPORTS

Belcore^(R)
LCAT
Release: 1.0.4
Issued: 7/31/95

LOOP COST ANALYSIS TOOL

COST MODEL - INVESTMENT BY ACCOUNT REPORTS

STUDY NAME: 1996 BAND 1 (OHIO) RESIDENCE LINE STUDY 12001 FEET - INFINITY INTRAST.

CURRENT TEST PLAN :

CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST CASE	1	LAST SAVE
FR / DS	FLAT RATE	#BANDS	0	10 Jan-97
SVC LEVEL	NARBAND	#CKTS	10	16:08
CST METH	UN INCR	INV LEVEL	ANNCOST	TIME

your report is ready for viewing
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