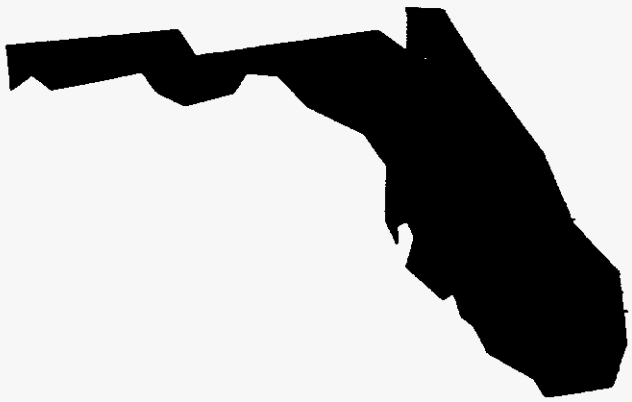
Attachment B

FPSC DOCKET 950984-TP
RESPONSE TO ORDER No. PSC-96-0444-FOF-TP
COST STUDIES

PUBLIC VERSION

2 REDACTED COPIES

FLORIDA



UNBUNDLED PORTS AND LOCAL MEASURED USAGE

COST STUDY DOCUMENTATION

SECTIONS A THRU 6

FLORIDA
UNBUNDLED PORTS
COST STUDY DOCUMENTATION

CONTENTS

TAB A

SECTION A

PROPRIETARY RATIONALE

FLORIDA UNBUNDLED PORTS
COST STUDY DOCUMENTATION

The Florida Unbundled Ports Cost Study contains actual unit cost information for discrete cost elements. These costs reflect BellSouth's long run incremental cost of providing this element on a going forward basis. Public disclosure of this information would provide BellSouth's competitors with an advantage in that they would know the price or rate below which BellSouth could not provide the service. The data is valuable to competitors and potential competitors in formulating strategic plans for entry, pricing, marketing and overall business strategies concerning access services. This information relates to the competitive interests of BellSouth and disclosure would impair the competitive business of BellSouth.

Additionally, the study contains information which reflects vendor-specific prices negotiated by BellSouth. Public disclosure of this information would impair BellSouth's ability to contract for goods and/or services on favorable terms. For these reasons, The Florida Unbundled Port Study is considered proprietary.

SECTION 1

SECTION 1

INTRODUCTION AND OVERVIEW

FLORIDA UNBUNDLED PORTS COST STUDY DOCUMENTATION

This Long Run Incremental Cost study for Unbundled Ports in the state of Florida is being provided in response to Docket No. 950984-TP, Order No. PSC-96-0444-FOF-TP Issued March 29, 1996.

Unbundled Ports include local networking and various types of switch terminations which allow access to switch features and functions. (Section 5 contains detailed drawings of the network components.) Unbundled ports provide the Alternative Local Exchange Companies (ALECs) with a physical presence in the switch and use of the local switched network [1].

Recurring costs presented in this study are directly assigned, incremental and levelized to be appropriate for the 1996-1998 study period. Nonrecurring costs follow the same convention and represent 1996-1998 level costs also. These long-run incremental costs are developed by using 1995 level incremental loadings and annual cost factors based on 13.2% Cost of Money and directly assigned labor rates.

1 The 2-wire digital ISDN port usage is strictly for circuit-switched traffic. The nonrecurring cost to configure ISDN channels per individual customer specifications is not included.

SECTION 2

SECTION 2

DESCRIPTION OF STUDY PROCEDURES

FLORIDA UNBUNDLED PORTS
COST STUDY DOCUMENTATION

This section describes the general principles for the development of costs supporting the Florida Unbundled Ports.

All costs are developed utilizing Long Run Incremental Cost methodology. In determining these costs, direct incremental costing techniques are used that are in accordance with accepted economic theory. Direct incremental costs are based on cost causation and include all of the costs directly caused by expanding production, or, alternately, costs that would be saved if the production levels were reduced. Costs are forward-looking in nature because only future costs can be saved. Incremental costs are long run to insure that the time period studied is sufficient to capture all forward-looking costs affected by the business decision. Shared and common costs are not incremental and therefore are not included. Incremental costs include both recurring (capital and operating expenses) and nonrecurring (service provisioning) costs. Incremental costs account for the expected change in cost to the firm resulting from a new service offering or a change in demand for an existing service.

THE DEVELOPMENT OF RECURRING COSTS

The monthly costs to BellSouth Telecommunications, Inc., resulting from the capital investments, necessary to provide a service are called recurring costs. Recurring costs include capital and operating costs. While capital costs include depreciation, cost of money and income tax, operating costs are the expenses of maintenance, ad valorem and other taxes. These expenses contribute to the ongoing cost to the company associated with the initial capital investment. Recurring costs are developed using incremental economic study applications, representing a forward-looking view of technology and deployment.

The first step in developing an incremental study of recurring costs for the Unbundled Ports is to determine the forward-looking Vendor EF&I (engineered, furnished and installed) investments. This is accomplished through the use of Bellcore's proprietary modeling tool, SCIS, Switching Cost Information System, version 2.1. In-plant factors are applied to vendor investments to develop installed investments which include engineering and installation labor.

Plant account specific Investment Inflation Factors are applied to the installed investments to trend the base year, or study year, investments to levelized amounts that are valid for a three to five year planning period. Appropriate loadings for land, building and miscellaneous common equipment and power are then applied.

Next, 1995-level Florida Intrastate Incremental Annual Cost Factors are used to calculate the direct cost of capital (in this case, 13.2%), ongoing maintenance and operating expenses, and taxes. These factors (specific factors for each USOA FRC) are applied to levelized investments by account code, yielding an annual cost per account code. These costs are then divided by twelve to arrive at a monthly cost per cost element.

THE DEVELOPMENT OF NONRECURRING COSTS

Nonrecurring costs are "one-time" costs incurred as a result of provisioning, installing, and disconnecting the Unbundled Ports. The work function times, identified by subject matter experts, are used to describe the flow of work within the various work centers involved. Installation and provisioning costs are developed by multiplying the work time for each work function by the directly assigned labor rate for the work group performing the function. Disconnect costs are calculated in the same manner, utilizing work functions, work times and labor rates. However, a disconnect factor associated with the projected location life of the cost element is applied to the disconnect cost. The disconnect factor inflates the labor cost to the period of the future disconnect, discounts these costs to the present, since the money is received up-front, and adjusts for the income tax effect due to the difference in time between the receipt of money and the disconnect expense. The disconnect cost is added to the installation cost to develop the total nonrecurring cost.

DEVELOPMENT OF LOCAL USAGE COSTS

The study utilizes Bellcore's Network Cost Analysis Tool (NCAT) model to develop these costs. The version used in this study is 4.1. Refer to Section 4 for a detailed explanation of the NCAT model.

SECTION 3

SECTION 3

SUMMARY OF RESULTS

FLORIDA UNBUNDLED PORTS
COST STUDY DOCUMENTATION

This section contains a cost summary for both recurring and nonrecurring cost elements studied for 1996-1998 Unbundled Ports for Florida and the Local Measured Usage, as required.

		A	B
	Ports		
	Cost Element	**Recurring**	**Nonrecurring**[1]
10	2W Analog Port[2]	$	$
11	2W ISDN Digital Port[2]	$	$
12	2W DID Analog Port	$	$
13	4W DID DS1 Digital Port	$	$
14	4W ISDN DS1 Digital Port[2]	$	$

[1] First item on service order. Additional ports, for the same physical location, have the following nonrecurring costs:

	Cost Element	**Nonrecurring - Additional**
18	2W Analog Port	$
19	2W ISDN Digital Port	$
20	2W DID Analog Port	$
21	4W DID DS1 Digital Port	$
22	4W ISDN DS1 Digital Port	$

	Local Measured Usage - per Call		
	Cost Element	**First MOU**	**Additional MOU**
25	2W Analog Port	$	$
26	2W ISDN Digital Port	$	$
27	4W ISDN DS1 Digital Port	$	$

MOU = Minute of Use

[2] Usage costs are in addition to these costs. As an example, average usage characteristics for a 2W analog port would indicate
31 an additional average monthly cost of per port for a total
32 of .

SECTION 4

SECTION 4

COST DEVELOPMENT - RECURRING & NONRECURRING

FLORIDA UNBUNDLED PORTS
COST STUDY DOCUMENTATION

This section defines the cost development for the Florida Unbundled Ports.

Recurring Cost Development
The basic economic cost development is outlined in Section 2. Network architecture is determined, the necessary equipment is identified, vendor EF&I investments are calculated, factors and loadings are applied and the result is levelized for the study period. Annual cost factors are applied to convert the investment to cost. An internally developed model, ACE, is used to perform the mathematical calculations necessary to convert investments to costs. Since the results are linear with respect to the investment, a conversion factor by plant account code (and in-plant factor) can be developed. Tab 6 outlines the development of the factor; a $10,000 investment was run through the ACE model. To obtain the factor, the monthly cost is divided by 10,000.

As mentioned in Section 2, the SCIS (Switching Cost Information System) model lays the foundation for developing the vendor EF&I investments. The model outputs reflect vendor design criteria, BellSouth engineering rules, and customer usage characteristics.

Workpapers 20-24, where applicable, develop the investment and convert the investment to monthly costs.

Nonrecurring Cost Development
Nonrecurring costs are one-time costs incurred as a result of provisioning, installing and disconnecting service and completion of orders for Unbundled Ports.

Company subject matter experts identify the work functions involved in the provisioning of the Unbundled Ports. These work functions are then used to describe the flow of work within the various work centers involved in provisioning the element.

The next step in the development of nonrecurring costs is to determine work times for each work function associated with the nonrecurring costs of the Unbundled Ports. The work times of the various work groups are determined from Subject Matter Expert inputs.

A spreadsheet model is used to incorporate the specific work functions and labor rates. In order to arrive at the nonrecurring cost for the element studied, the work times for each work function required is multiplied by the appropriate directly assigned labor rate. The labor inflation factor is used to bring the labor rate to the study period and gross receipts tax is added.

Next, the individual work function costs are accumulated into the total cost for the cost element studied.

The basic process by which nonrecurring costs are calculated consists of combining unit work times with hourly costs of each specific service category. These labor times, and service order related work times, are multiplied by the directly assigned labor rates for the work groups performing the activities. Disconnect costs are calculated in the same manner, utilizing work functions, work times, and labor rates. However, a disconnect factor associated with the projected location life of the service is applied to the disconnect cost. The disconnect factor inflates the labor cost to the period of the future disconnect, discounts these costs to the present and adjusts for the income tax effect due to the difference in time between the receipt of money and the disconnect expense. The disconnect cost is added to the installation cost to develop the total nonrecurring cost.

Workpapers 30-31 (if needed) detail the development of the nonrecurring costs.

Local Measured Usage

Local measured usage costs were developed through the utilization of the Network Cost Analysis Tool (NCAT), version 4.1. This model was developed and is maintained by Bellcore.

Bellcore's Network Cost Analysis Tool - Production Module (NCAT) is used to develop long run incremental costs for various services, including Local, MTS, WATS, WatsSaver® service, 800, and Switched Access. The NCAT application has four modules. They are the report system, calculator, usage and the database modules. The database module contains files that must be populated in order to use the application. More specifically, the end office, tandem, facility, tandem homing arrangement, point of termination (POT), POT homing arrangement, alias, annual cost factor, facility/termination unit investment, SCIS Model Office Results Transfer (SMORT), switch mix and study parameters files must be either built or obtained from appropriate sources for input to NCAT.

The end office, tandem, tandem homing arrangement, point of termination, and switch mix files are developed from Company databases such as Local Switching Demand and Facility (LSDF), Local Exchange Routing Guide (LERG), General Trunk Forecast (GTF), and Interexchange Carrier Access Database System (ICADS). The information in the study

parameter files is obtained from the Call Setup application and the Network department. Some of the fields are user defined.

The SMORT file is obtained from the Switching Cost Information System (SCIS) module. This file contains the necessary information to develop switch investments for DMS, DCO and 5ESS technologies and their corresponding remotes.

The facility or TIRKS file is obtained from the Information Technologies (IT) organization. This file contains the trunking information for toll and switched access services for the state under study.

The investments in the Facility Termination Unit Investment (FTUI) file are obtained from the Economic Costs Fundamental Interoffice Group. This file contains banded facility and termination investments for each plant account used in the service under study.

The point-to-point usage data for toll and switched access is obtained from the IT department. The data is preprocessed into usage file format defined and required by NCAT. Local service point-to-point usage is developed using Subscriber Line Usage Study (SLUS) data and NCAT's LOCALPRO module.

Once all the files in the database are populated and the usage files are obtained and loaded, the NCAT calculator can be invoked. The calculator's main function is to produce long run incremental costs in the form of the costs for the initial and additional minute of use by distance band and by time of day or rate period; but, in order to develop the long run incremental cost, a selected demand change percent or stimulation factor is used to determine "offered load" (messages and minutes) for the service under study. The network component costs are based on the amount of resources necessary to carry this "offered load". This cost is structured into two components: setup and duration.

The setup and duration costs are used to develop costs for an initial and an additional minute in the following manner; the duration cost is the cost for the additional minute. The costs for an initial minute is the sum of the setup cost per message, the volume sensitive expense per message and the duration cost per minute.

The results from the NCAT model are contained in a separate tab labeled Local Usage. The development of incremental cost above Local Measured Usage is outlined in Workpapers 40-42, if required.

SECTION 4

2-WIRE ANALOG

Summary of Costs

State: Florida
Workpaper: 10
Page: 1 of 1
Date: 05/17/96

		A	B	C
	Rate Element	Monthly	Nonrecurring First	Nonrecurring Additional
7	2W Analog Port			
	Usage			
9	First Minute of Use			
10	Additional Conversation Minutes (per Minute)			

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2W Analog Port
Monthly Costs

State: Florida
Workpaper: 20
Page: 1 of 1
Date: 05/17/96

LN	Description	Source	Amount
1	**5ESS Calculations**		
2	Investment	SCIS/MO – 5ESS Line Termination Report	
3	MDF & Protector		
4	NTS Switching Investment		
5	Excess Capacity		
6	Investment per Port	LN3+LN4+LN5	
7			
8	Account Code for Investment		377C
9			
10	Conversion Factor – Investment to Cost	ACE Report 20, Total Monthly Cost/10,000	0.027047
11			
12	**5ESS Monthly Cost**	LN6*LN10	
13			
14	**DMS Calculations**		
15	Investment	SCIS/MO – DMS Line Termination Report	
16	MDF & Protector		
17	NTS Switching Investment		
18	Excess Capacity		
19	Investment per Port	LN16+LN17+LN18	
20			
21	Account Code for Investment		377C
22			
23	Conversion Factor – Investment to Cost	ACE Report 20, Total Monthly Cost/10,000	0.027047
24			
25	**DMS Monthly Cost**	LN19*LN23	
26			
27	**Meld Calculations**		
28	Technology Distribution	D&F Database – NALs	
29	5ESS		68.5%
30	DMS		31.5%
31			
32	**Melded Monthly Cost**	LN12*LN29+LN25*LN30	
33			
34			
35	C:\WORK\2WA.WK3		

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2W Analog Port
Nonrecurring Costs – Summary

State: Florida
Workpaper: 30
Page: 1 of 1
Date: 05/17/96

LN	Description	Source	Amount
1	Nonrecurring Cost – First	WP31, LN30	
2			
3	Nonrecurring Cost – Additional	WP32, LN30	
4			
5	RTU Fees	WP33, LN14	
6			
7	Total First	LN1 + LN5	
8			
9	Total Additional	LN3 + LN5	
10			
11			
12			
13			
14			
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16			
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2W Analog Port
Nonrecurring Costs – First

State: Florida
Workpaper: 31
Page: 1 of 1
Date: 05/17/96

LN	Description	A Hours	B Labor Rate	C Inflation Factor	D GRT Factor	E Disconnect Factor	F Nonrecurring Cost
1	**Local Carrier Service Center (LCSC)**						
2	Installation		$38.30	1.096	1.0152		
3	Disconnect		$38.30	1.096	1.0152	0.802	
4							
5	**Line and Number Administration** [1]						
6	Installation		$30.21	1.096	1.0152		
7	Disconnect		$30.21	1.096	1.0152	0.802	
8							
9	**Line Translations (RCMAC)**						
10	Installation		$37.38	1.096	1.0152		
11	Disconnect		$37.38	1.096	1.0152	0.802	
12							
13							
14							
15							
16							
17							
18							
19							
20	Note:						
21	Function performed by Network Clerical.						
22							
23							
24							
25							
26							
27							
28							
29							
30	**Total Nonrecurring Cost**	Sum (LN2...LN11)					
31							
32							
33							
34							
35	C:\WORK\2WA.WK3						

2W Analog Port
Nonrecurring Costs – Additional

State: Florida
Workpaper: 32
Page: 1 of 1
Date: 05/17/96

LN	Description	A Hours	B Labor Rate	C Inflation Factor	D GRT Factor	E Disconnect Factor	F Nonrecurring Cost
1	**Local Carrier Service Center (LCSC)**						
2	Installation		$38.30	1.096	1.0152		
3	Disconnect		$38.30	1.096	1.0152	0.802	
4							
5	**Line and Number Administration** [1]						
6	Installation		$30.21	1.096	1.0152		
7	Disconnect		$30.21	1.096	1.0152	0.802	
8							
9	**Line Translations (RCMAC)**						
10	Installation		$37.38	1.096	1.0152		
11	Disconnect		$37.38	1.096	1.0152	0.802	
12							
13							
14							
15							
16							
17							
18							
19							
20	Note:						
21	Function performed by Network Clerical.						
22							
23							
24							
25							
26							
27							
28							
29							
30	**Total Nonrecurring Cost**	Sum (LN2...LN11)					
31							
32							
33							
34							
35	C:\WORK\2WA.WK3						

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2W Analog Port
Development of RTU Fees

State: Florida
Workpaper: 33
Page: 1 of 1
Date: 05/17/96

LN	Description	Source	Amount
1	5ESS RTU per Line [1]	Contract PR-6700-B	
2			
3	DMS		
4			
5	**Meld Calculations**		
6	Technology Distribution	D&F Database – NALs	
7	5ESS		68.5%
8	DMS		31.5%
9			
10	Melded RTU fee	LN1*LN7+LN3*LN8	
11			
12	GRT Tax Factor	Fundamental Cost Group	1.0152
13			
14	**Melded RTU w/GRT**	LN10*LN12	
15			
16			
17			
18			
19			
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SECTION 4

2-WIRE DIGITAL ISDN

Summary of Costs

State: Florida
Workpaper: 10
Page: 1 of 1
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	Rate Element	A Monthly	B Nonrecurring First	C Nonrecurring Additional
7	2W ISDN Digital Port			
	Usage			
9	First Minute of Use			
10	Additional Conversation Minutes (per Minute)			

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2W ISDN Digital Port
Summary of Monthly Costs

State: Florida
Workpaper: 20
Page: 1 of 1
Date: 05/17/96

LN	Description	Source	Amount
1	**Switching Costs**	WP21, LN36	
2			
3	**RTU Fees**	WP22, LN65	
4			
5	**Total Monthly Cost**	LN1+LN3	
6			
7			
8			
9			
10			
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2W ISDN Digital Port
Monthly Costs – Switching

State: Florida
Workpaper: 21
Page: 1 of 1
Date: 05/17/96

LN	Description	Source	Amount
1	**5ESS Calculations**		
2	Investment	SCIS/MO – 5ESS ISDN Line Termination Report	
3	Working ISDN Line		
4	Excess Capacity		
5	Getting Started		
6			
7			
8	Investment per Port	Sum(LN3...LN7)	
9			
10	Account Code for Investment		377C
11			
12	Conversion Factor – Investment to Cost	ACE Report 20, Total Monthly Cost/10,000	0.027047
13			
14	**5ESS Monthly Cost**	LN8*LN12	
15			
16	**DMS Calculations**		
17	Investment	SCIS/MO – DMS ISDN Line Termination Report	
18	Working ISDN Line		
19	Excess Capacity		
20	Getting Started		
21			
22			
23	Investment per Port	Sum(LN18...LN22)	
24			
25	Account Code for Investment		377C
26			
27	Conversion Factor – Investment to Cost	ACE Report 20, Total Monthly Cost/10,000	0.027047
28			
29	**DMS Monthly Cost**	LN23*LN27	
30			
31	**Meld Calculations**		
32	Technology Distribution	D&F Database – NALs	
33	5ESS		68.5%
34	DMS		31.5%
35			
36	**Melded Monthly Cost**	LN14*LN33+LN29*LN34	
37			
38			
39			
40	C:\WORK\2WI.WK3		

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2W ISDN Digital Port
Development of RTU Fee Costs

State: Florida
Workpaper: 22
Page: 1 of 2
Date: 05/17/96

File: C:\WORK\2WI.WK3

LN	Description	Source	Amount
1	RTU Packages – Discounted Cost		
2	5ESS		
3	National ISDN I Package	Per Office	
4	NIS1BSW National ISDN Base		
5	NIS1SBB Standard BRI Base		
6	NIS1DAT Basic Data for Standard BRI		
7	NIS1CSD Deluxe CSD for Standard BRI		
8	NIS1PSD Deluxe PSD for BRI		
9	ISBRIDS BRI Data Service Package		
10	National ISDN II Package	Per Office	
11	Total per Office	LN3+LN10	
12	ISDNOAM ISDN OA&M Package	Per SM	
13	GX75RTU X.75' Packet Gateway Access	Per SM	
14	CCSQRTU Q931/SS7 Interworking	per SM	
15	Total per SM RTU Fees	LN12+LN13+LN14	
16	ISBRIDS BRI Data Services Package	Per BRI	
17			
18	DMS100		
19	NTX750AB ISDN Basic Access		
20	Per 2B+D		
21	Per 1B+D		
22	Per Switch		
23	NTX753AB ISDN Advanced Signalling		
24	NTX754AB ISDN EKTS		
25	NTX755AC ISDN Supplementary Services		
26	NTX756AA ISDN Display Services		
27	NTX757AA ISDN/ISUP Interworking		
28	NTX767AA ISDN Routing & Digital Analysis		
29	DMS–IPH Software Packages		
30	NTXP47AA – Packet Handler base		
31	NTXH77AA – Channelized Access on LPP/LIS		
32	NTXP75AA – DMS PH SERVORD		
33	NTX159AA ISDN Automatic Message Accounting		
34	NTXJ51AA ISDN Digital Test Access	Per Office	
35	NTXJ51AA ISDN Digital Test Access	Per BRI	
36	NTX119AA MDC Message Waiting		
37	NTXN89AA Testing ISDN Services		
38	NTXN91AA TL–1 Testing Interface Base		
39	NTXN93AA TL–1 Testing ISDN Services		
40	NTXR55AA TL–1 Parsing Interface Base		
41	NTX167AB CCS7 Trunk Signaling		
42	NTXF92AA ISDN OA&M Base		
43	NI2 National ISDN II		
44	Total per Switch Expenses	@SUM(LN19..LN43)–LN21–LN20–LN35	
45			

2W ISDN Digital Port
Development of RTU Fee Costs

State: Florida
Workpaper: 22
Page: 2 of 2
Date: 05/17/96

File: C:\WORK\2WI.WK3

LN	Description	Source	Amount
46	**Model Office Statistics**		
47			
48	Number of SM's per Office		
49	Total BRI's	Melded 5ESS & DMS	
50	1B+D		
51	2B+D		
52			
53	**RTU Cost per Office**		
54	5ESS	LN11+LN15*LN48+LN16*LN49	
55	DMS100	LN20*LN51+LN21*LN50+LN35*LN49+LN44	
56			
57	**RTU per BRI**		
58	5ESS	LN54/LN49	
59	DMS100	LN55/LN49	
60			
61	**Monthly RTU per BRI**		
62	5ESS	@PMT(LN58,.132/12,10*12)	
63	DMS100	@PMT(LN59,.132/12,10*12)	
64			
65	**Melded * GRT**	(LN62*.685+LN63*.315)*1.0152	
66			
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2W ISDN Digital Port
Summary of Nonrecurring Costs

State: Florida
Workpaper: 30
Page: 1 of 1
Date: 05/17/96

LN	Description	Source	Amount
1	Nonrecurring Cost - First	WP31, LN30	
2			
3	Nonrecurring Cost - Additional	WP32, LN30	
4			
5			
6			
7			
8			
9			
10			
11			
12			
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2W ISDN Digital Port
Nonrecurring Costs – First

State: Florida
Workpaper: 31
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Date: 05/17/96

LN	Description	A Hours	B Labor Rate	C Inflation Factor	D GRT Factor	E Disconnect Factor	F Nonrecurring Cost
1	**Local Carrier Service Center (LCSC)**						
2	Installation		$38.30	1.096	1.0152		
3	Disconnect		$38.30	1.096	1.0152	0.802	
4							
5	**Circuit Provisioning Center (CPC)**						
6	Installation		$34.41	1.096	1.0152		
7	Disconnect		$34.41	1.096	1.0152	0.802	
8							
9	**Facilities Assignment (FACS)**						
10	Installation		$31.28	1.096	1.0152		
11	Disconnect		$31.28	1.096	1.0152	0.802	
12							
13	**CO Frame – Design (NTEL)**						
14	Installation		$39.09	1.096	1.0152		
15	Disconnect		$39.09	1.096	1.0152	0.802	
16							
17	**Network Plug–in (PICS)**						
18	Installation		$41.65	1.096	1.0152		
19	Disconnect		$41.65	1.096	1.0152	0.802	
20							
21	**Line Translation (RCMAC)**						
22	Installation		$37.38	1.096	1.0152		
23	Disconnect		$37.38	1.096	1.0152	0.802	
24							
25	**Network Services Clerical (SOP89)**						
26	Installation		$30.21	1.096	1.0152		
27	Disconnect		$30.21	1.096	1.0152	0.802	
28							
29	**Special Services Coordinate & Test (SSC)**						
30	Installation		$36.41	1.096	1.0152		
31	Disconnect		$36.41	1.096	1.0152	0.802	
32							
33	**Total Nonrecurring**	Sum(LN2..LN31)					
34							
35	C:\WORK\2WI.WK3						

FL8G01O 00031

2W ISDN Digital Port
Nonrecurring Costs – Additional

State: Florida
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LN	Description	A Hours	B Labor Rate	C Inflation Factor	D GRT Factor	E Disconnect Factor	F Nonrecurring Cost
1	**Local Carrier Service Center (LCSC)**						
2	Installation		$38.30	1.096	1.0152		
3	Disconnect		$38.30	1.096	1.0152	0.802	
4							
5	**Circuit Provisioning Center (CPC)**						
6	Installation		$34.41	1.096	1.0152		
7	Disconnect		$34.41	1.096	1.0152	0.802	
8							
9	**Facilities Assignment (FACS)**						
10	Installation		$31.28	1.096	1.0152		
11	Disconnect		$31.28	1.096	1.0152	0.802	
12							
13	**CO Frame – Design (NTEL)**						
14	Installation		$39.09	1.096	1.0152		
15	Disconnect		$39.09	1.096	1.0152	0.802	
16							
17	**Network Plug–in (PICS)**						
18	Installation		$41.65	1.096	1.0152		
19	Disconnect		$41.65	1.096	1.0152	0.802	
20							
21	**Line Translation (RCMAC)**						
22	Installation		$37.38	1.096	1.0152		
23	Disconnect		$37.38	1.096	1.0152	0.802	
24							
25	**Network Services Clerical (SOP89)**						
26	Installation		$30.21	1.096	1.0152		
27	Disconnect		$30.21	1.096	1.0152	0.802	
28							
29	**Special Services Coordinate & Test (SSC)**						
30	Installation		$36.41	1.096	1.0152		
31	Disconnect		$36.41	1.096	1.0152	0.802	
32							
33	**Total Nonrecurring**	Sum(LN2...LN31)					
34							
35	C:\WORK\2WI.WK3						

FL8G01Q 00032

2W ISDN Digital Port
Incremental ISDN Usage Cost

State: Florida
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LN	Description	Source	Amount
1	**Call Set-up Incremental BH Investment**		
2	5ESS	WP41, LN16	
3	DMS	WP42, LN8	
4			
5	Account Code for Investment		377C
6			
7	Conversion Factor - Investment to Cost	ACE Report 20, Total Monthly Cost/10,000	0.027047
8			
9	**Monthly Cost**		
10	5ESS		
11	DMS		
12			
13	**Technology Distribution**	D&F Database - NALs	
14	5ESS		68.5%
15	DMS		31.5%
16			
17	**Melded BH Call Set-up Cost**	LN10*LN14+LN11*LN15	
18			
19	**MOU Incremental BH Investment**		
20	5ESS		
21	DMS	WP42, LN11	
22			
23	**Monthly Cost**		
24	5ESS	LN7*LN20	
25	DMS	LN7*LN21	
26			
27	**Melded BH MOU Cost**	LN14*LN24+LN15*LN25	
28			
29	**Conversion of BH Cost to Any Time, Any Day**		
30	Factors		
31	BH/Full Day Ratio	Network Study (NCAT)	10%
32	Days per Month	365/12	30.4
33			
34	Calculation		
35	Call Set-up	LN17*LN31/LN32	
36	MOU	LN27*LN31/LN32	
37			
38	Cost for First Minute of Use (Incremental to POTS)	LN35+LN36	
39	Cost for Additional Minute (Incremental to POTS)	LN36	
40			
41	Cost for First Minute of Use (POTS)	NCAT	
42	Cost for Additional Minute (POTS)	NCAT	
43			
44	**Total Cost for First Minute of Use**	LN38+LN41	
45	**Total Cost for Additional Minute**	LN39+LN42	

2W ISDN Digital Port
Development of BH Incremental Usage Investment 5ESS

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LN	Description	Source	Amount
1	**Incremental Cost of ISDN Usage**		
2	**5ESS Calculations**		
3	Call Set-up		
4	EPHC	IMO2*IP1*RS569/AT3+	
5		IMO2*IP2*RS569.02/AT3+	
6		IMO2*IP3*RS569.03/AT3+	
7		IMO2*IP4*RS569.06/AT3+	
8		IMO2*IP5*RS569.07/AT3	
9			
10	Packet		
11		IMO5*IP1*PT569/3600+	
12		IMO5*(IP2+IP3)*PT569.01/3600+	
13		IMO5*IP4*PT569.02/3600+	
14		IMO5*IP5*PT569.03/3600	
15			
16	**Incremental Call Set-up Investment**	LN8+LN14	
17			
18	**Model Office Outputs**	SCIS/MO Output	
19	IMO2 SM Realtime (ISDN SMs)		
20	IMO5 Access Packet per Second		
21			
22			
23	User Input	Network	
24	IP1 BH ISDN-ISDN IAO Calls		
25	IP2 BH ISDN-POTS IAO Calls		
26	IP3 BH POTS-ISDN IAO Calls		
27	IP4 BH ISDN-Trunk Calls		
28	IP5 BH Trunk-ISDN Calls		
29			
30	SCIS/IN Database Items		
31	AT3 Realtime per EPHC		
32	RS569 BRI-BRI Increment		
33	RS569.02 BRI-Line Increment		
34	RS569.03 Line-BRI Increment		
35	RS569.06 BRI-Trunk Increment		
36	RS569.07 Trunk-BRI Increment		
37	PT569 BRI-BRI IAO		
38	PT569.01 BRI-POTS; POTS-BRI IAO		
39	PT569.02 BRI-Trunk		
40	PT569.03 Trunk-BRI		
41			
42			
43			
44			
45			

FL8G01Q 00034

2W ISDN Digital Port
Development of BH Incremental Usage Investment DMS

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LN	Description	Source	Amount
1	**Incremental Cost of ISDN Usage**		
2	**DMS Calculations**		
3	Call Set-up		
4	**Getting Started**	MO1*IP1*RT569+	
5		MO1*IP2*RT569.02+	
6		MO1*IP3*RT569.03+	
7		MO1*IP4*RT569.06+	
8		MO1*IP5*RT569.07	
9			
10	MOU [1]		
11	**Line CCS**	If IMO4>MO4 (IMO4-MO4)/100*60	
12			
13	**Model Office Outputs**	SCIS/MO Output	
14	IMO4 ISDN Line CCS		
15	MO1 Getting Started		
16	MO4 Line CCS		
17			
18	**User Input**	Network	
19	IP1 BH ISDN-ISDN IAO Calls		
20	IP2 BH ISDN-POTS IAO Calls		
21	IP3 BH POTS-ISDN IAO Calls		
22	IP4 BH ISDN-Trunk Calls		
23	IP5 BH Trunk-ISDN Calls		
24			
25	**SCIS/IN Database Items**		
26	RT569 BRI-BRI Increment		
27	RT569.02 BRI-Line Increment		
28	RT569.03 Line-BRI Increment		
29	RT560.06 BRI-Trunk Increment		
30	RT569.07 Trunk-BRI Increment		
31			
32			
33			
34			
35			
36			
37			
38			
39			
40	Note:		
41	[1] In the 5ESS, the ISDN line CCS is < POTS Line CCS.		
42	Thus, there is no incremental cost for MOU in the 5ESS.		
43			
44			
45			

F18G01Q 00035

SECTION 4

2-WIRE ANALOG DID

Summary of Costs

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		A	B	C
	Rate Element	**Monthly**	**Nonrecurring First**	**Nonrecurring Additional**
7	**2W DID Port**			

Note:
Costs do not include establishing the first trunk group and groups of numbers.

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2W DID Port
Summary of Monthly Costs

State: Florida
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LN	Description	Source	Amount
2	**Switching Costs**	WP21, LN15	
3			
4	**Circuit Equipment**	WP22, LN25	
5			
6	**Total Monthly Cost**	LN1+LN3	
7			
8			
9			
10			
11			
12			
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14			
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19			
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39			
40	C:\WORK\2WDID.WK3		

2W DID Port
Calculation of Monthly Switching Costs

State: Florida
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LN	Description	Source	Amount
1	**Investments per 2W DID Port**		
2	5ESS	WP23, LN6	
3	DMS	WP24, LN10	
4			
5	Melded Investment	LN2*LN12 +LN3*LN13	
6			
7	Account Code for Investment		377C
8			
9	Conversion Factor – Investment to Cost	ACE Report 20, Total Monthly Cost/10,000	0.027047
10			
11	**Technology Distribution**	D&F Database – NALs	
12	5ESS		68.5%
13	DMS		31.5%
14			
15	**Monthly Cost**	LN5*LN9	
16			
17			
18			
19			
20			
21			
22			
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40	C:\WORK\2WDID.WK3		

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2W DID Port
Monthly Costs – Circuit Equipment

State: Florida
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LN	Description	Source	Amount
1	**Circuit Equipment Required to Terminate 2W DID Port**		
2			
3	D4 Hardwire	Fundamental Study	
4	DSX Bay	Fundamental Study	
5			
6	Total Hardwire Investment	LN3+LN4	
7			
8	Account for Investment [1]		357C
9			
10	Conversion Factor – Investment to Cost	ACE Report 20, Total Monthly Cost/10,000	0.041306
11			
12	**Monthly Cost – Hardwire**	LN6*LN10	
13			
14	Common Plug-In	Fundamental Study	
15	2WR DPO Plug-In	Fundamental Study	
16			
17	Total Hardwire Investment	LN14+LN15	
18			
19	Account for Investment [2]		357C
20			
21	Conversion Factor – Investment to Cost	ACE Report 20, Total Monthly Cost/10,000	0.023414
22			
23	**Monthly Cost – Plug-In**	LN17*LN21	
24			
25	**Total Circuit Equipment Monthly Cost**		
26			
27			
28			
29			
30	**Note:**		
31	[1] Requires hardwire in – plant factor.		
32			
33			
34			
35			
36			
37			
38			
39			
40	C:\WORK\2WDID.WK3		

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2W DID Port
Development of 5ESS Investments

State: Florida
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LN	Description	Source	Amount
1	5ESS Investment Calculations		
2	EPHC	MO2*IP1*IP2*RS22.03/AT3	
3			
4	Hardware	ME6*IP2	
5			
6	Total Investment	LN2+LN4	
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18	Model Office Outputs	SCIS/MO Output	
19	MO2 SM Realtime		
20			
21			
22			
23	User Input	Network	
24	IP1 BH DID Calls per Trunk		
25	IP2 Number of Trunks		
26			
27			
28			
29			
30	SCIS/IN Database Items		
31	AT3 Realtime per EPHC	Assumption Table Item 3	
32	RS22.03 DID Call per Trunk	Realtime Table Item 22.03	
33	ME6 Digital Trunk	Miscellaneous Equation Item 6	
34			
35			
36			
37			
38			
39	EPHC = Equivalent POTS half-call.		
40			

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2W DID Port
Development of DMS Investment

State: Florida
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LN	Description	Source	Amount
1	**DMS Investment Calculations**		
2	**Getting Started**	MO1*IP1*RT22	
3			
4	**Hardware**	ME6*IP2	
5			
6	**Memory**		
7	Data Store	MD22*IT15	
8	Data Fill	MF22*IT16*IP2	
9			
10	**Total Investment**	LN2+LN4+LN7+LN8	
11			
12			
13	**Model Office Outputs**		
14	MO1 Getting Started	SCIS/MO Output	
15			
16			
17			
18	**User Input**	Network	
19	IP1 BH DID Calls per Trunk		
20	IP2 Number of Trunks		
21			
22			
23			
24			
25	**SCIS/IN Database Items**		
26	RT22 DID	Realtime Table Item 22	
27	MD22 DID Words	Memory Table Item MD22	
28	MF22 DID Words	Memory Table Item MF22	
29	IT15 Data Store Words	Investment Table Item 15	
30	IT16 Data Fill Words	Investment Table Item 16	
31	ME6 Digital Trunk	Miscellaneous Equation Item 6	
32			
33			
34			
35			
36			
37			
38			
39			
40			

2W DID Port
Nonrecurring Costs – Summary

State: Florida
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LN	Description	Source	Amount
1	**Nonrecurring Cost – First**	WP31, LN30	
2			
3	**Nonrecurring Cost – Additional**	WP32, LN30	
4			
5			
6			
7			
8			
9			
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2W DID Port
Nonrecurring Costs – First

State: Florida
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LN	Description	A Hours	B Labor Rate	C Inflation Factor	D GRT Factor	E Disconnect Factor	F Nonrecurring Cost
1	**Local Carrier Service Center (LCSC)**						
2	Installation		$38.30	1.096	1.0152		
3	Disconnect		$38.30	1.096	1.0152	0.802	
4							
5	**Circuit Provisioning Center (CPC)**						
6	Installation		$34.41	1.096	1.0152		
7	Disconnect		$34.41	1.096	1.0152	0.802	
8							
9	**Network Services Clerical (SOP89)**						
10	Installation		$30.21	1.096	1.0152		
11	Disconnect		$30.21	1.096	1.0152	0.802	
12							
13	**Switching Control Center (SCC)**						
14	Installation		$37.38	1.096	1.0152		
15	Disconnect		$37.38	1.096	1.0152	0.802	
16							
17	**Circuit & Facility (NTEL)**						
18	Installation		$39.09	1.096	1.0152		
19	Disconnect		$39.09	1.096	1.0152	0.802	
20							
21	**CO Administration**						
22	Installation		$36.05	1.096	1.0152		
23	Disconnect		$36.05	1.096	1.0152	0.802	
24							
25	**RTU Fees**	WP33, LN19					
26							
27							
28							
29							
30	**Total Nonrecurring**	Sum(LN2...LN21)					
31							
32							
33							
34							
35							

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2W DID Port
Nonrecurring Costs – Additional

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LN	Description	A Hours	B Labor Rate	C Inflation Factor	D GRT Factor	E Disconnect Factor	F Nonrecurring Cost
1	**Local Carrier Service Center (LCSC)**						
2	Installation		$38.30	1.096	1.0152		
3	Disconnect		$38.30	1.096	1.0152	0.802	
4							
5	**Circuit Provisioning Center (CPC)**						
6	Installation		$34.41	1.096	1.0152		
7	Disconnect		$34.41	1.096	1.0152	0.802	
8							
9	**Network Services Clerical (SOP89)**						
10	Installation		$30.21	1.096	1.0152		
11	Disconnect		$30.21	1.096	1.0152	0.802	
12							
13	**Switching Control Center (SCC)**						
14	Installation		$37.38	1.096	1.0152		
15	Disconnect		$37.38	1.096	1.0152	0.802	
16							
17	**Circuit & Facility (NTEL)**						
18	Installation		$39.09	1.096	1.0152		
19	Disconnect		$39.09	1.096	1.0152	0.802	
20							
21	**CO Administration**						
22	Installation		$36.05	1.096	1.0152		
23	Disconnect		$36.05	1.096	1.0152	0.802	
24							
25	**RTU Fees**	WP33, LN19					
26							
27							
28							
29							
30	**Total Nonrecurring**	Sum(LN2..LN21)					
31							
32							
33							
34							
35							

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2W DID Port
Development of RTU Fee Costs

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LN	Description	Source	Amount
1	DMS100 RTU Fees	Contract PR6900	
2	Per 100 Lines		
3	NTX100AA		
4			
5	Per Line	LN3/100	
6			
7			
8			
9	5ESS RTU Fees		
10			
11	Technology Distribution	D&F Database -- NALs	
12	5ESS		68.5%
13	DMS		31.5%
14			
15	Melded RTU Fee	LN5*LN13+LN9*LN12	
16			
17	GRT Tax Factor	Fundamental Cost Group	1.0152
18			
19	RTU w/GRT	LN15*LN17	
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
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SECTION 4

4-WIRE DIGITAL DID

Summary of Costs

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	Rate Element	A Monthly	B Nonrecurring First	C Nonrecurring Additional
7	4W DS1 DID Port			

Note:
Costs do not include establishing the first trunk group and groups of numbers.
Nonrecurring costs do not include service activation.

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F18G01Q 00048

4W DS1 DID Port
Summary of Monthly Costs

State: Florida
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LN	Description	Source	Amount
2	**Switching Costs**	WP21, LN15	
3			
4	**DSX**	WP22, LN7	
5			
6	**Total Monthly Cost**	LN1+LN3	
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
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40	C:\WORK\4WDID.WK3		

4W DS1 DID Port
Calculation of Monthly Switching Costs

State: Florida
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LN	Description	Source	Amount
1	**Investments per 4W DS1 DID Port**		
2	5ESS	WP23, LN6	
3	DMS	WP24, LN10	
4			
5	Melded Investment	LN2*LN12 +LN3*LN13	
6			
7	Account Code for Investment		377C
8			
9	Conversion Factor – Investment to Cost	ACE Report 20, Total Monthly Cost/10,000	0.027047
10			
11	Technology Distribution	D&F Database – NALs	
12	5ESS		68.5%
13	DMS		31.5%
14			
15	Monthly Cost	LN5*LN9	
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
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40	C:\WORK\4WDID.WK3		

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4W DS1 DID Port
Monthly Costs – DSX

State: Florida
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LN	Description	Source	Amount
1	DSX Investment[1]	Fundamental Cost	
2			
3	Account Code		257C
4			
5	Conversion Factor – Investment to Cost	ACE Report 20, Total Monthly Cost/10,000	0.030121
6			
7	Monthly Cost	LN1*LN5	
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30	Note:		
31	[1] This is for 1/2 DSX bay termination.		
32			
33			
34			
35			
36			
37			
38			
39			
40	C:\WORK\4WDID.WK3		

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4W DS1 DID Port
Development of 5ESS Investments

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LN	Description	Source	Amount
1	**5ESS Investment Calculations**		
2	**EPHC**	MO2*IP1*IP2*RS22.03/AT3	
3			
4	**Hardware**	ME6*IP2	
5			
6	**Total Investment**	LN2+LN4	
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18	**Model Office Outputs**	SCIS/MO Output	
19	**MO2 SM Realtime**		
20			
21			
22			
23	**User Input**	Network	
24	IP1 BH DID Calls per Trunk		
25	IP2 Number of Trunks		
26			
27			
28			
29			
30	**SCIS/IN Database Items**		
31	AT3 Realtime per EPHC	Assumption Table Item 3	
32	RS22.03 DID Call per Trunk	Realtime Table Item 22.03	
33	ME6 Digital Trunk	Miscellaneous Equation Item 6	
34			
35			
36			
37			
38			
39			
40			

4W DS1 DID Port
Development of DMS Investment

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LN	Description	Source	Amount
1	DMS Investment Calculations		
2	Getting Started	MO1*IP1*RT22	
3			
4	Hardware	ME6*IP2	
5			
6	Memory		
7	Data Store	MD22*IT15	
8	Data Fill	MF22*IT16*IP2	
9			
10	Total Investment	LN2+LN4+LN7+LN8	
11			
12			
13	Model Office Outputs		
14	MO1 Getting Started	SCIS/MO Output	
15			
16			
17			
18	User Input	Network	
19	IP1 BH DID Calls per Trunk		
20	IP2 Number of Trunks		
21			
22			
23			
24			
25	SCIS/IN Database Items		
26	RT22 DID	Realtime Table Item 22	
27	MD22 DID Words	Memory Table Item MD22	
28	MF22 DID Words	Memory Table Item MF22	
29	IT15 Data Store Words	Investment Table Item 15	
30	IT16 Data Fill Words	Investment Table Item 16	
31	ME6 Digital Trunk	Miscellaneous Equation Item 6	
32			
33			
34			
35			
36			
37			
38			
39			
40			

4W DS1 DID Port
Nonrecurring Costs – Summary

State: Florida
Workpaper: 30
Page: 1 of 1
Date: 05/17/96

LN	Description	Source	Amount
1	Nonrecurring Cost – First	WP31, LN30	
2			
3	Nonrecurring Cost – Additional	WP32, LN30	
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
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FL8G01O 00054

4W DS1 DID Port
Nonrecurring Costs – First

State: Florida
Workpaper: 31
Page: 1 of 1
Date: 05/17/96

C:\WORK\4WDID.WK3

LN	Description	A Hours	B Labor Rate	C Inflation Factor	D GRT Factor	E Disconnect Factor	F Nonrecurring Cost
1	**Local Carrier Service Center (LCSC)**						
2	Installation		$38.30	1.096	1.0152		
3	Disconnect		$38.30	1.096	1.0152	0.802	
4							
5	**Circuit Provisioning Center (CPC)**						
6	Installation		$34.41	1.096	1.0152		
7	Disconnect		$34.41	1.096	1.0152	0.802	
8							
9	**Network Services Clerical (SOP89)**						
10	Installation		$30.21	1.096	1.0152		
11	Disconnect		$30.21	1.096	1.0152	0.802	
12							
13	**Switching Control Center (SCC)**						
14	Installation		$37.38	1.096	1.0152		
15	Disconnect		$37.38	1.096	1.0152	0.802	
16							
17							
18							
19							
20							
21	**RTU Fees**	WP33, LN19					
22							
23							
24							
25							
26							
27							
28							
29							
30	**Total Nonrecurring**	Sum(LN2..LN21)					
31							
32							
33							
34							
35							

F18G01O 00055

4W DS1 DID Port
Nonrecurring Costs – Additional

State: Florida
Workpaper: 32
Page: 1 of 1
Date: 05/17/96

C:\WORK\4WDID.WK3

LN	Description	A Hours	B Labor Rate	C Inflation Factor	D GRT Factor	E Disconnect Factor	F Nonrecurring Cost
1	**Local Carrier Service Center (LCSC)**						
2	Installation		$38.30	1.096	1.0152		
3	Disconnect		$38.30	1.096	1.0152	0.802	
4							
5	**Circuit Provisioning Center (CPC)**						
6	Installation		$34.41	1.096	1.0152		
7	Disconnect		$34.41	1.096	1.0152	0.802	
8							
9	**Network Services Clerical (SOP89)**						
10	Installation		$30.21	1.096	1.0152		
11	Disconnect		$30.21	1.096	1.0152	0.802	
12							
13	**Switching Control Center (SCC)**						
14	Installation		$37.38	1.096	1.0152		
15	Disconnect		$37.38	1.096	1.0152	0.802	
16							
17							
18							
19							
20							
21	**RTU Fees**	WP33, LN19					
22							
23							
24							
25							
26							
27							
28							
29							
30	**Total Nonrecurring**	Sum(LN2..LN21)					
31							
32							
33							
34							
35							

F18G01Q 00056

4W DS1 DID Port
Development of RTU Fee Costs

State: Florida
Workpaper: 33
Page: 1 of 1
Date: 05/17/96

File: C:\WORK\4WDID.WK3

LN	Description	Source	Amount
1	DMS100 RTU Fees	Contract PR6900	
2	Per 100 Lines		
3	NTX100AA		
4			
5	Per Line	LN3/100	
6			
7	Per DS1	LN5*24	
8			
9	5ESS RTU Fees		
10			
11	Technology Distribution	D&F Database – NALs	
12	5ESS		68.5%
13	DMS		31.5%
14			
15	Melded RTU Fee	LN7*LN13+LN9*LN12	
16			
17	GRT Tax Factor	Fundamental Cost Group	1.0152
18			
19	RTU w/GRT	LN15*LN17	
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
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33			
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SECTION 4

4-WIRE DIGITAL
DS1 ISDN

Summary of Costs

State: Florida
Workpaper: 10
Page: 1 of 1
Date: 05/23/96

	Rate Element	Monthly (A)	Nonrecurring First (B)	Nonrecurring Additional (C)
7	4W ISDN DS1 Port (PRI)			
	Usage			
90	First Minute of Use			
	Additional Conversation Minutes (per Minute)			

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C:\WORK\PRI.WK3

4W ISDN DS1 Port (PRI)
Summary of Monthly Costs

State: Florida
Workpaper: 20
Page: 1 of 1
Date: 05/23/96

LN	Description	Source	Amount
1	Switching Costs[1]	WP21, LN36	
2			
3	DSX	WP22, LN7	
4			
5	Total Monthly Cost	LN1+LN3	
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30	Note:		
31	[1] The switching costs only include the physical termination, i.e. call-by-call access and incoming call identification are not included.		
32			
33			
34			
35			
36			
37			
38			
39			
40	C:\WORK\PRI.WK3		

FL8G01Q 00060

4W ISDN DS1 Port (PRI)
Monthly Costs

State: Florida
Workpaper: 21
Page: 1 of 1
Date: 05/23/96

LN	Description	Source	Amount
1	**5ESS Calculations**		
2	Investment	SCIS/MO – 5ESS ISDN Line Termination Report	
3	Minimum Cost per D Channel		
4			
5	Minimum Cost per B Channel		
6	Number of B Channels		23
7			
8	Investment per Port	LN3+LN5*LN6	
9			
10	Account Code for Investment		377C
11			
12	Conversion Factor – Investment to Cost	ACE Report 20, Total Monthly Cost/10,000	0.027047
13			
14	**5ESS Monthly Cost**	LN8*LN10	
15			
16	**DMS Calculations**		
17	Investment	SCIS/MO – DMS ISDN Line Termination Report	
18	Minimum Cost per D Channel		
19			
20	Minimum Cost per B Channel		
21	Number of B Channels		23
22			
23	Investment per Port	LN18+LN20*LN21	
24			
25	Account Code for Investment		377C
26			
27	Conversion Factor – Investment to Cost	ACE Report 20, Total Monthly Cost/10,000	0.027047
28			
29	**DMS Monthly Cost**	LN23*LN27	
30			
31	**Meld Calculations**		
32	Technology Distribution	D&F Database – NALs	
33	5ESS		68.5%
34	DMS		31.5%
35			
36	**Melded Monthly Cost**	LN14*LN33+LN29*LN34	
37			
38			
39			
40	C:\WORK\PRI.WK3		

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4W ISDN DS1 Port (PRI)
Monthly Costs – DSX

State: Florida
Workpaper: 22
Page: 1 of 1
Date: 05/23/96

LN	Description	Source	Amount
1	DSX Investment[1]	Fundamental Cost	
2			
3	Account Code		257C
4			
5	Conversion Factor – Investment to Cost	ACE Report 20, Total Monthly Cost/10,000	0.030121
6			
7	Monthly Cost	LN1*LN5	
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30	Note:		
31	[1] This is for 1/2 DSX bay termination.		
32			
33			
34			
35			
36			
37			
38			
39			
40	C:\WORK\PRI.WK3		

4W ISDN DS1 Port (PRI)
Nonrecurring Cost – Summary

State: Florida
Workpaper: 30
Page: 1 of 1
Date: 05/23/96

LN	Description	Source	Amount
1	**Nonrecurring Cost – First**	WP31, LN30	
2			
3	**Nonrecurring Cost – Additional**	WP32, LN30	
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
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33			
34			
35			

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4W ISDN DS1 Port (PRI)
Nonrecurring Costs – First

State: Florida
Workpaper: 31
Page: 1 of 1
Date: 05/23/96

LN	Description	A Hours	B Labor Rate	C Inflation Factor	D GRT Factor	E Disconnect Factor	F Nonrecurring Cost
1	**Local Carrier Service Center (LCSC)**						
2	Installation		$38.30	1.096	1.0152		
3	Disconnect		$38.30	1.096	1.0152	0.802	
4							
5	**Circuit Provisioning Center (CPC)**						
6	Installation		$34.41	1.096	1.0152		
7	Disconnect		$34.41	1.096	1.0152	0.802	
8							
9	**Network Plug–in (PICS)**						
10	Installation		$41.65	1.096	1.0152		
11	Disconnect		$41.65	1.096	1.0152	0.802	
12							
13	**Switching Control Center (SCC)**						
14	Installation		$37.38	1.096	1.0152		
15	Disconnect		$37.38	1.096	1.0152	0.802	
16							
17	**RTU Fees**	WP33, LN32					
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30	**Total Nonrecurring**	Sum(LN2...LN17)					
31							
32							
33							
34							
35	C:\WORK\PRI.WK3						

F18G01Q 00064

4W ISDN DS1 Port (PRI)
Nonrecurring Costs – Additional

State: Florida
Workpaper: 32
Page: 1 of 1
Date: 05/23/96

LN	Description	A Hours	B Labor Rate	C Inflation Factor	D GRT Factor	E Disconnect Factor	F Nonrecurring Cost
1	**Local Carrier Service Center (LCSC)**						
2	Installation		$38.30	1.096	1.0152		
3	Disconnect		$38.30	1.096	1.0152	0.802	
4							
5	**Circuit Provisioning Center (CPC)**						
6	Installation		$34.41	1.096	1.0152		
7	Disconnect		$34.41	1.096	1.0152	0.802	
8							
9	**Network Plug–in (PICS)**						
10	Installation		$41.65	1.096	1.0152		
11	Disconnect		$41.65	1.096	1.0152	0.802	
12							
13	**Switching Control Center (SCC)**						
14	Installation		$37.38	1.096	1.0152		
15	Disconnect		$37.38	1.096	1.0152	0.802	
16							
17	**RTU Fees**	WP33, LN32					
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30	**Total Nonrecurring**	Sum(LN2..LN17)					
31							
32							
33							
34							
35	C:\WORK\PRI.WK3						

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4W ISDN DS1 Port (PRI)
Development of RTU Fee Costs (Nonrecurring)

State: Florida
Workpaper: 33
Page: 1 of 1
Date: 05/23/96

File: C:\WORK\PRI.WK3

LN	Description	Source	Amount
1	DMS100 RTU Fees	Contract PR6900	
2	Per Office		
3	NTX790AB	PRI Interface Base	
4	NTX793AA	Integrated Services Access	
5	NTX794AA	PRI/CCS7 Interworking	
6	NTN53AA	D Channel Back-up	
7	Total per Office	LN3+LN4+LN5+LN6	
8			
9	Per PRI		
10	NTX790AB	PRI Interface Base	
11			
12	Average PRIs per office	Model Office Input	
13			
14	DMS RTU per PRI	LN10+LN7/LN12	
15			
16			
17	5ESS RTU Fees	Contract PR6700B	
18	Per PRI		
19	ISRIPRT (includes ISCCART)	ISDN Primary Rate Interface	
20	NISSPRI	NI2 - Basic (1% of interfaces)	
21	5ESS RTU per PRI		
22			
23	Melded RTU Fee per PRI		
24	Distribution	NALs	
25	DMS		31.5%
26	5ESS		68.5%
27			
28	Melded Cost per PRI	LN14*LN25+LN21*LN26	
29			
30	GRT	Fundamental Cost Group	1.0152
31			
32	Melded Cost w/GRT	LN28*LN30	
33			
34			
35			
36			
37			
38			
39			
40			

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4W ISDN DS1 Port (PRI)
Incremental ISDN Usage Cost

State: Florida
Workpaper: 40
Page: 1 of 1
Date: 05/23/96

File: C:\WORK\PRI.WK3

LN	Description	Source	Amount
1	**Call Set-up Incremental BH Investment**		
2	5ESS	WP41, LN6	
3	DMS	WP42, LN6	
4			
5	Account Code for Investment		377C
6			
7	Conversion Factor – Investment to Cost	ACE Report 20, Total Monthly Cost/10,000	0.027047
8			
9	**Monthly Cost**		
10	5ESS		
11	DMS		
12			
13	Technology Distribution	D&F Database – NALs	
14	5ESS		68.5%
15	DMS		31.5%
16			
17	**Melded BH Call Set-up Cost**	LN10*LN14+LN11*LN15	
18			
19	**MOU Incremental BH Investment**		
20	5ESS	No Incremental Cost	
21	DMS	No Incremental Cost	
22			
23	**Monthly Cost**		
24	5ESS	LN7*LN20	
25	DMS	LN7*LN21	
26			
27	**Melded BH MOU Cost**	LN14*LN24+LN15*LN25	
28			
29	**Conversion of BH Cost to Any Time, Any Day**		
30	Factors		
31	BH/Full Day Ratio	Network Study (NCAT)	10%
32	Days per Month	365/12	30.4
33			
34	Calculation		
35	Call Set-up	LN17*LN31/LN32	
36	MOU	LN27*LN31/LN32	
37			
38	Cost for First Minute of Use (Incremental to POTS)	LN35+LN36	
39	Cost for Additional Minute (Incremental to POTS)	LN36	
40			
41	Cost for First Minute of Use (POTS)	NCAT	
42	Cost for Additional Minute (POTS)	NCAT	
43			
44	**Total Cost for First Minute of Use**	LN38+LN41	
45	**Total Cost for Additional Minute**	LN39+LN42	

4W ISDN DS1 Port (PRI)
Development of BH Incremental Usage Investment 5ESS

State: Florida
Workpaper: 41
Page: 1 of 1
Date: 05/23/96

File: C:\WORK\PRI.WK3

LN	Description	Source	Amount
1	**Incremental Cost of ISDN Usage**		
2	**5ESS Calculations**		
3	Call Set-up		
4	EPHC	IMO2*IP1*RS192/AT3+	
5		IMO2*IP2*RS192.01/AT3+	
6		IMO2*IP3*RS192.02/AT3	
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18	**Model Office Outputs**	SCIS/MO Output	
19	IMO2 SM Realtime (ISDN SMs)		
20			
21			
22			
23	**User Input**	Network	
24	IP1 BH Originating IAO Calls		
25	IP2 BH Originating IEO Calls		
26	IP3 BH Terminating Calls		
27			
28			
29			
30	**SCIS/IN Database Items**		
31	AT3 Realtime per EPHC	Assumption Table Item 3	
32	RS192 IAO Increment	Realtime Table Item 192	
33	RS192.01 IEO Increment	Realtime Table Item 192.01	
34	RS192.02 Terminating Increment	Realtime Table Item 192.02	
35			
36			
37			
38			
39	EPHC = Equivalent POTS half-call.		
40			

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4W ISDN DS1 Port (PRI)
Development of BH Incremental Usage Investment DMS

State: Florida
Workpaper: 42
Page: 1 of 1
Date: 05/23/96

File: C:\WORK\PRI.WK3

LN	Description	Source	Amount
1	**Incremental Cost of ISDN Usage**		
2	**DMS Calculations**		
3	Call Set-up		
4	**Getting Started**	MO1*IP1*RT192+	
5		MO1*IP2*RT192.01+	
6		MO1*IP3*RT192.02	
7			
8			
9			
10			
11			
12			
13	**Model Office Outputs**		
14	MO1 Getting Started	SCIS/MO Output	
15			
16			
17			
18	**User Input**	Network	
19	IP1 BH Originating IAO Calls		
20	IP2 BH Originating IEO Calls		
21	IP3 BH Terminating Calls		
22			
23			
24			
25	**SCIS/IN Database Items**		
26	RT192 IAO Incremental to L-L	Realtime Table Item 192	
27	RT192.01 L-T Increment	Realtime Table Item 192.01	
28	RT192.02 Terminating Increment	Realtime Table Item 192.02	
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

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SECTION 4

LOCAL USAGE

NETWORK COST ANALYSIS TOOL (NCAT)
FL LOCAL MEASURED RATE (13.2%COM)

DB : FL
VER : 4.1
CALC TYPE: MARGINAL
STUDY: FLLOCMS

STATE: FLORIDA
WORKPAPER: 100
PAGE: 1 OF 1
DATE: 17-MAY-96

UNIT COST SUMMARY

(A) DISTANCE BAND	(B) RP (Hrs.)	(C) COST/MSG (SETUP)	(D) EXP/MSG	(E) COST/MIN DURATION	(F) =(C+D+E) COST / FIRST MIN	(G) =(E) COST / ADDL MIN
IAO	08-19					
	20-07					
	AVG					
0.0-9999.9	08-19					
	20-07					
	AVG					
ALL	08-19					
	20-07					
	AVG					

NETWORK COST ANALYSIS TOOL (NCAT)
FL LOCAL MEASURED RATE (13.2%COM)

DB : FL
VER : 4.1
CALC TYPE: MARGINAL
STUDY: FLLOCMS

STATE: FLORIDA
WORKPAPER: 200

DATE: 17-MAY-96

TRAFFIC SENSITIVE UNIT COST - SETUP RELATED

(A)	(B)	(C) =(D+E+F+G+H+I)	(D)	(E)	(F)	(G)	(H)	(I)
DISTANCE		TOTAL	|---------SWITCHING---------|			|-----TRUNKING----|	
BAND	RP		EO	TDM	MEAS	FAC	TERM	SS7
IAO	08-19							
	20-07							
	AVG							
0.0-9999.9	08-19							
	20-07							
	AVG							
ALL	08-19							
	20-07							
	AVG							

FL LOCAL MEASURED RATE (13.2%COM)

DB : FL
VER : 4.1
CALC TYPE: MARGINAL
STUDY: FLLOCMS

STATE: FLORIDA
WORKPAPER: 200

DATE: 17-MAY-96

TRAFFIC SENSITIVE UNIT COST - DURATION RELATED

(A) DISTANCE BAND	(B) RP	(C) =(D+E+F+G+H) TOTAL	(D) SWITCHING EO	(E) SWITCHING TDM	(F) SWITCHING MEAS	(G) TRUNKING FAC	(H) TRUNKING TERM
IAO	08-19						
	20-07						
	AVG						
0.0-9999.9	08-19						
	20-07						
	AVG						
ALL	08-19						
	20-07						
	AVG						

DB : FL NETWORK COST ANALYSIS TOOL (NCAT) STATE: FLORIDA
VER: 4.1 ANNUAL COST FACTOR REPORT WORKPAPER: 200
PAGE: 3 OF 3
DATE: 17-MAY-96

PLANT ACCOUNT	ANNUAL COST	TEL PLANT INDEX
10C	0.19510	
20C	0.17720	
357C	0.23540	
377C	0.25200	0.9927
811C	0.21450	
822C	0.20810	
845C	0.20560	
84C	0.16860	
85C	0.20630	

SECTION 5

SECTION 5

SPECIFIC STUDY ASSUMPTIONS

FLORIDA UNBUNDLED PORTS
COST STUDY DOCUMENTATION

The cost studies are based on incremental economic theory and assumptions, plus specific Network deployment strategies, first choice provisioning guidelines, and equipment purchasing information.

Cost study assumptions are as follows:

Ports

1. The cost of money is 13.2%, the forward-looking incremental cost to the firm.

2. The port costs developed do not provide any feature functionality. Only the cost to provide a physical connection to the switch have been considered.

3. Network usage is required to gain access to the switch network. The 2-wire digital ISDN port usage is strictly for circuit-switched traffic. The nonrecurring cost to configure ISDN channels per individual customer specifications is not included.

4. RTU fees have been included where applicable to account for the expense which must be paid to the switch vendors upon termination.

5. The nonrecurring cost development utilizes a location life of 60 months was assumed; impacts discounted disconnect factor. The nonrecurring costs for the 2W & 4W Analog ports and the 2W ISDN port include the establishment of telephone numbers.

6. Alternative Network Serving Arrangements, ANSA, have not been considered in the ISDN ports.

Local Measured Usage

1. Trunk attempt and CCS (Centum (100) Call Seconds) busy hours are the same as the originating office attempt and CCS busy hours.

2. Measurement equipment attempt and CCS busy hours are the same as the attempt and CCS busy hours for the corresponding switch. The measurement equipment is assumed to be LAMA, Local Automatic Message Accounting.

3. The ratio of average busy season daily traffic load to average business day traffic load is 1.1:1.

4. All tandems are assumed to perform both originating and terminating functions.

5. Signaling System 7 (SS7) is assumed for all trunks.

6. Interoffice trunks are engineered to overflow six percent of the peak traffic load.

7. Trunk utilization is eighty-five percent.

8. A stimulation rate of ten percent is used to obtain a meaningful and manageable increment of usage.

9. When switch-specific investments are not available, a technology-specific weighted investment is used.

10. Replacement switch technology is assumed for each end office and tandem office.

11. The number of digits sent per outgoing call is 7.

12. The number of digits received is 7.

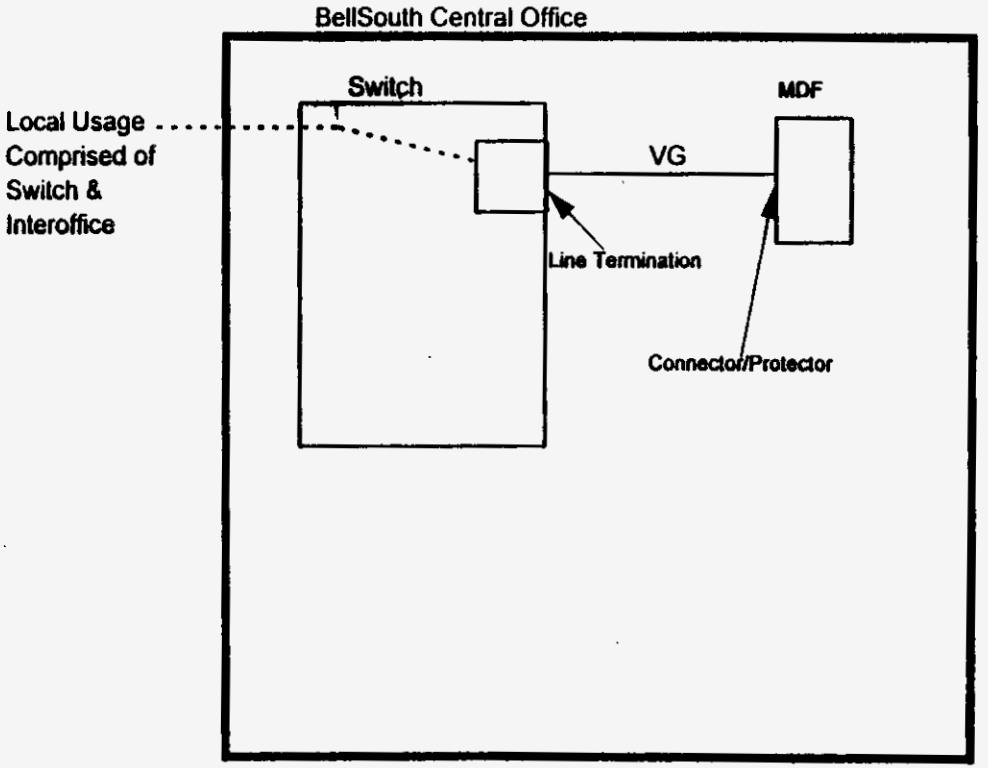
13. The grade of service is 0.01.

14. The number of annual business days is 250 (i.e., excludes weekends and holidays).

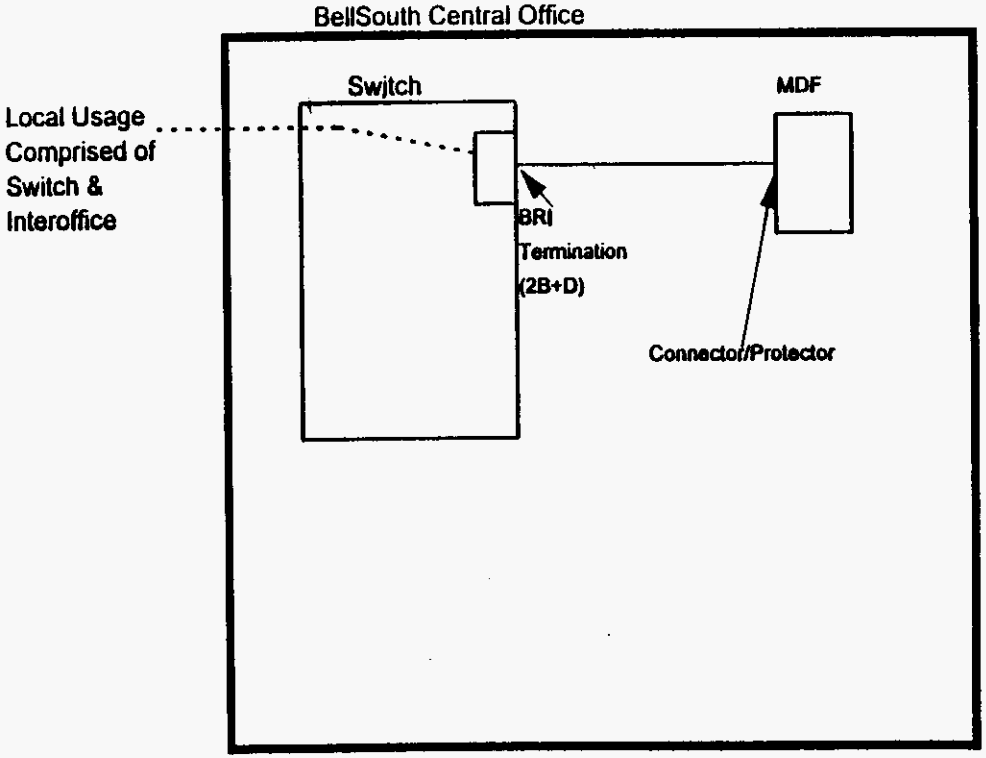
15. Average business day load to average calendar day load is 1.177:1.

16. The number of digits dialed is 7.

Unbundled 2-Wire Analog Port



Unbundled 2-Wire ISDN Digital Line Port



Unbundled 2-Wire Analog DID Trunk Port

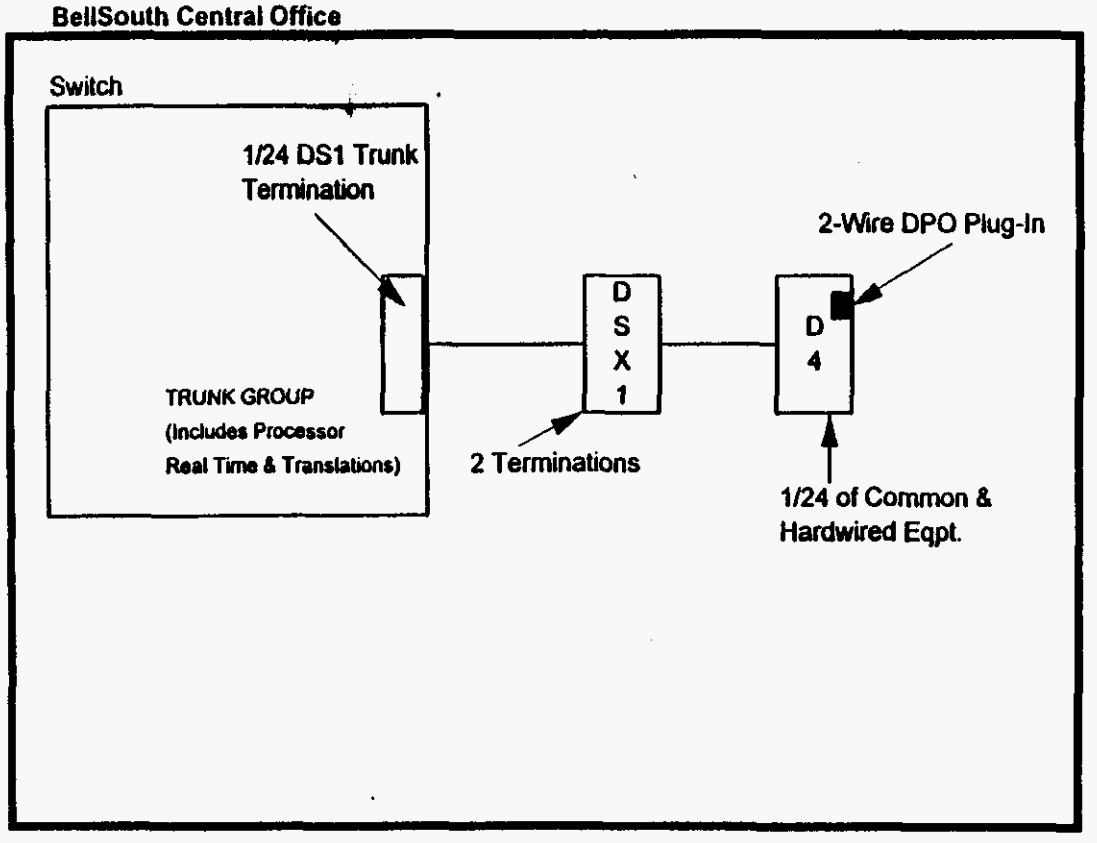
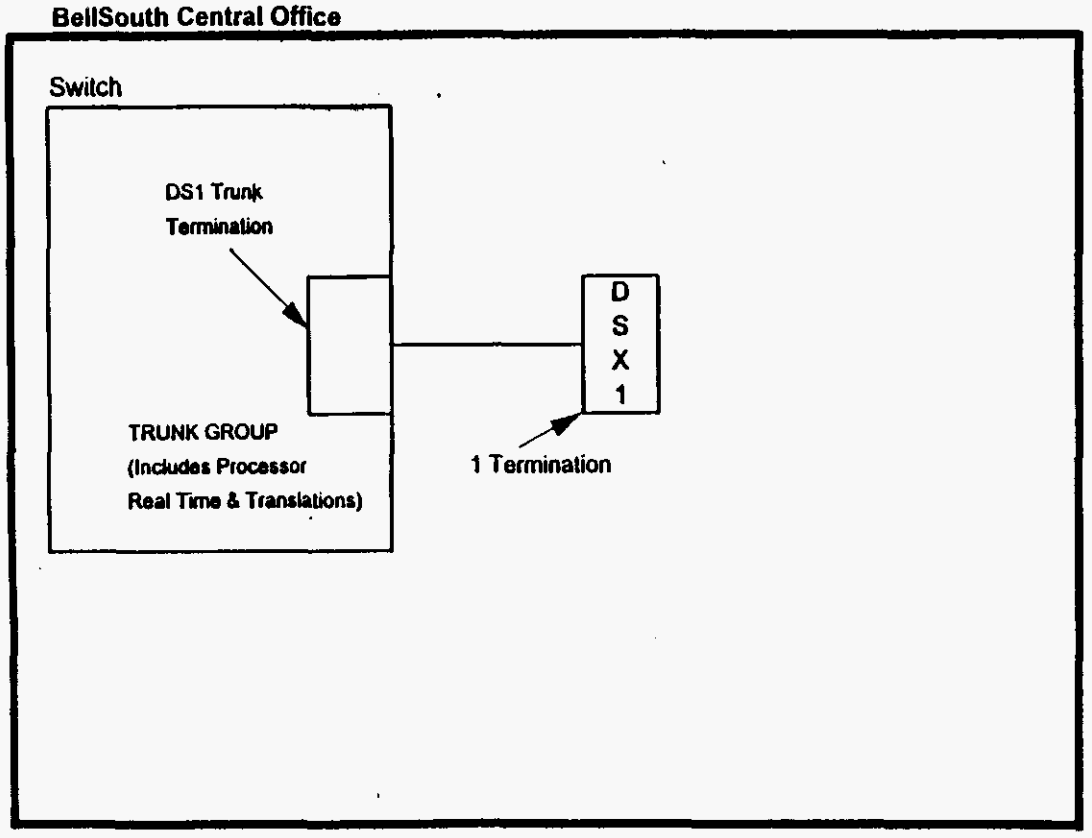
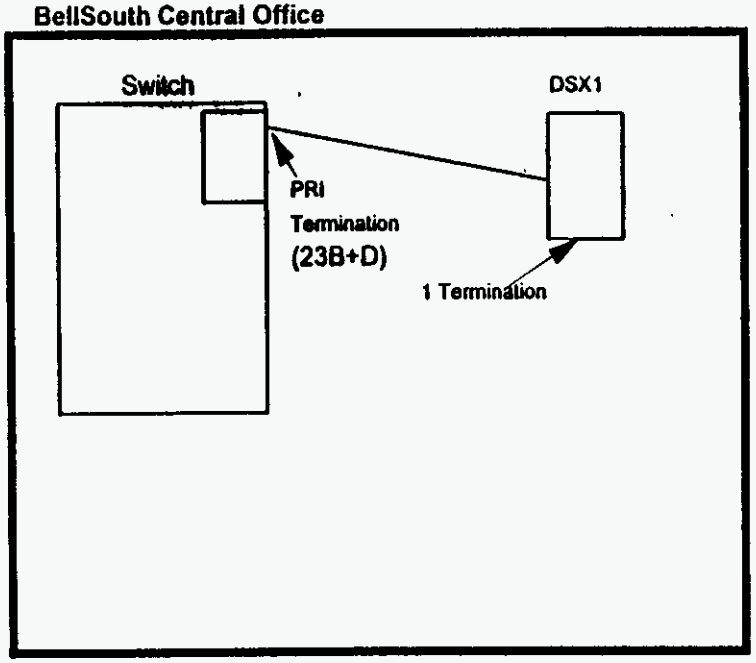


FIG01Q 00080

Unbundled 4-Wire DS1 DIGITAL DID Trunk Port



Unbundled 4-Wire ISDN DS1 Digital Trunk Port



SECTION 6

SECTION 6

FACTORS AND LOADINGS

FLORIDA UNBUNDLED PORTS
COST STUDY DOCUMENTATION

Following are the incremental annual cost factors, miscellaneous loadings and labor rates used in the Unbundled Ports cost study for Florida.

SECTION 6

LABOR RATES

1995 Directly Assigned Labor Rates
Florida

Plant Work Centers	Job Function Code	Rate
Facilities Assignment Center	400X	$31.28
CO Installation & Maintenance – Circuit & Facility	431X (NTEL)	$39.09
CO Installation & Maintenance & Administration – Software	432X (RCMAC & SCC)	$37.38
CO Administration – Circuit, Carrier, & Facility	434X	$36.05
Circuit Provisioning Center	470X (CPC)	$34.41
Special Services – Coordinate & Test	471X (SSC)	$36.41

Engineering Work Centers	Job Function Code	Rate
Network Plug–in Administration	341X (PICS)	$41.65

Cost Groups	Job Function Code	Rate
Local Carrier Center	2300 (LCSC)	$38.30
Network Services Clerical	27XX (SOP89)	$30.21

05-16-1996

INFLATION LEVELIZING FACTOR PROGRAM

LABOR INFLATION
FEN

YEAR	IN-MOVEMENT	INFLATION
1	1	1.032000
2	1	1.035000
3	1	1.034000
4	1	1.033000
5	1	1.034000

FEN = 1.09596

FACTOR DEVELOPED ON 13.2 % DISCOUNT RATE

SECTION 6

377C

State	Tariff Ref	USOC	Modifier	Technology	Volume Sensitivity	Economic Type	Investment Basis
FL	$10,000				VS	DIR	

		INVESTMENT DATA			ANNUAL COST FACTORS							ANNUAL EXPENSES						
Field Code	St	Capital Investment	Operating Investment	Date	Depr. Factor	C.O.M. Factor	Inc Tax Factor	Mtce. Factor	Admin Factor	AdVal Factor	GRT Factor	Depr. Expense	C.O.M. Expense	Inc Tax Expense	Mtce. Expense	Admin Expense	Adval Expense	GRT Expense
10C	FL	503.57	503.57		.0302	.0986	.0452	.0069	0.0000	.0113	.0152	15.21	49.65	22.76	3.47	0.00	5.69	1.47
20C	FL	37.39	37.39		0.0000	.1118	.0514	0.0000	0.0000	.0113	.0152	0.00	4.18	1.92	0.00	0.00	.42	.10
377C	FL	12,464.71	12,464.71		.1134	.0651	.0302	.0282	0.0000	.0113	.0152	1,413.50	811.45	376.43	351.50	0.00	140.85	47.02

SUMMARY:	ADJUSTED TOTAL INVESTMENT		13,005.67
	ANNUAL CAPITAL COSTS:	Depreciation Expense	1,428.71
		Cost of Money	865.29
		Income Tax Expense	401.12
	ANNUAL OPERATING EXPENSES:	Maintenance Expense	354.98
		Administration Expense	0.00
		Ad Valorem and Other Taxes	146.96
	Gross Receipts Tax		48.60
	TOTAL ANNUAL COSTS		3,245.65

TOTAL MONTHLY COST: 270.47

FL8601O 00089

NOTES: 1. Capital and Operating Investments are the BOOKED INVESTMENTS from ACE Report 10.
2. Depreciation, Cost of Money, and Income Tax Expenses = Capital Investment multiplied by the corresponding Annual Cost Factor.
3. Maintenance, Administrative, and Ad Valorem Expenses = Operating Investment multiplied by the corresponding Annual Cost Factor.
4. Gross Receipts Tax = Gross Receipts Tax Factor multiplied by the sum of Capital Costs and Operating Expenses.

USOC INVESTMENT DETAILS
Study Number:
Study Name: SAMPLE OF $10,000
Tariff Element: SAMPLE OF $10,000

State	Tariff Ref	USOC	Modifier	Technology	Vol. Sens.	Economic Type	Investment Basis
FL	$10,000				VS	DIR	

	PRIMARY INVESTMENT DATA				INVESTMENT LOADING FACTORS				SUPPORT STRUCTURE LOADINGS			BOOKED INVESTMENTS[1]	
Field Code	Description	Capital Investment	Operating Investment	Date	FC Factor	InPlant Factor	InPlant Type	CE&P Factor	Loading Factor	Loading Type	Field Code	Capital Investment	Operating Investment
377C	SAMPLE OF $10,000	10,000.00	10,000.00	5/07/96	1.0120	1.1236	T	1.0962				12,464.71	12,464.71
377C	- Support Loading ----->			5/07/96					.0404	switch_bldg	10C	503.57	503.57
377C	- Support Loading ----->			5/07/96					.0030	switch_land	20C	37.39	37.39
										ADJUSTED TOTAL INVESTMENT:		13,005.67	13,005.67

F18G01O 00090

NOTES: 1. The BOOKED INVESTMENT for PRIMARY INVESTMENTS is calculated by multiplying the PRIMARY INVESTMENT by the applicable INVESTMENT LOADING FACTORS.
2. The BOOKED INVESTMENT for SUPPORT STRUCTURE LOADINGS is calculated by multiplying the applicable Loading Factor by the sum of INVESTMENTS for each primary Field Code.
3 InPlant Factor types: T = Telco, C = Material Composite, H = Material Hardwire, P = Material Plugin
4 The FC factor is the levelized inflation factor for investments.

SECTION 6

257C

Note:

The .0052 factor in the Administration column is to account for use of TIRKS.

USOC INVESTMENT DETAILS

ACE REPORT 10

Study Number:

Page 1

Study Name: *SAMPLE OF $10,000*

5/15/96

Tariff Element: SAMPLE OF $10,000

State	Tariff Ref	USOC	Modifier	Technology	Vol. Sens.	Economic Type	Investment Basis
FL					VS	DIR	

	PRIMARY INVESTMENT DATA				INVESTMENT LOADING FACTORS				SUPPORT STRUCTURE LOADINGS			BOOKED INVESTMENTS	
Field Code	Description	Capital Investment	Operating Investment	Date	FC Factor	InPlant Factor	InPlant Type	CE&P Factor	Loading Factor	Loading Type	Field Code	Capital Investment	Operating Investment
257C	*SAMPLE OF $10,000*	*10,000.00*	10,000.00	5/08/96	.9620	1.5212	H	1.0159				14,866.62	14,866.62
257C	- Support Loading ----->			5/08/96					.0404	circuit_bldg	10C	600.61	600.61
257C	- Support Loading ----->			5/08/96					.0030	circuit_land	20C	44.60	44.60
										ADJUSTED TOTAL INVESTMENT:		15,511.84	15,511.84

NOTES: 1. The BOOKED INVESTMENT for *PRIMARY INVESTMENTS is calculated by multiplying the PRIMARY INVESTMENT by the applicable* INVESTMENT LOADING FACTORS.

2. The BOOKED INVESTMENT for SUPPORT STRUCTURE LOADINGS is calculated by multiplying the applicable Loading Factor by the sum of INVESTMENTS for each primary Field Code.

3. InPlant Factor types: T = Telco, C = Material Composite, H = Material Hardwire, P = Material Plugin

4. *The FC factor is the levelized inflation factor for investments.*

USOC ANNUAL COST DETAILS

ACE REPORT 20

Study Number:

Page 1

Study Name: SAMPLE OF $10,000

5/15/96

Tariff Element: SAMPLE OF $10,000

State	Tariff Ref	USOC	Modifier	Technology	Volume Sensitivity	Economic Type	Investment Basis
FL					VS	DIR	

		INVESTMENT DATA			ANNUAL COST FACTORS							ANNUAL EXPENSES						
Field Code	St	Capital Investment	Operating Investment	Date	Depr. Factor	C.O.M. Factor	Inc Tax Factor	Mtce. Factor	Admin Factor	AdVal Factor	GRT Factor	Depr. Expense	C.O.M. Expense	Inc Tax Expense	Mtce. Expense	Admin Expense	Adval Expense	GRT Expense
10C	FL	600.61	600.61		.0302	.0986	.0452	.0069	0.0000	.0113	.0152	18.14	59.22	27.15	4.14	0.00	6.79	1.75
20C	FL	44.60	44.60		0.0000	.1118	.0514	0.0000	0.0000	.0113	.0152	0.00	4.99	2.29	0.00	0.00	.50	.12
257C	FL	14,866.62	14,866.62		.1134	.0636	.0288	.0089	.0052	.0113	.0152	1,685.88	945.52	428.16	132.31	77.31	167.99	52.24

SUMMARY:	ADJUSTED TOTAL INVESTMENT		15,511.84		
	ANNUAL CAPITAL COSTS:	Depreciation Expense	1,704.01		
		Cost of Money	1,009.72		
		Income Tax Expense	457.60		
	ANNUAL OPERATING EXPENSES:	Maintenance Expense	136.46		
		Administration Expense	77.31		
		Ad Valorem and Other Taxes	175.28		
	Gross Receipts Tax		54.12		
	TOTAL ANNUAL COSTS		3,614.50	TOTAL MONTHLY COST:	301.21

FL8G01Q 00094

NOTES: 1. Capital and Operating Investments are the BOOKED INVESTMENTS from ACE Report 10.

2. Depreciation, Cost of Money, and Income Tax Expenses = Capital Investment multiplied by the corresponding Annual Cost Factor.

3. Maintenance, Administrative, and Ad Valorem Expenses = Operating Investment multiplied by the corresponding Annual Cost Factor.

4. Gross Receipts Tax = Gross Receipts Tax Factor multiplied by the sum of Capital Costs and Operating Expenses.

SECTION 6

357C

Note:

The .0052 factor in the Administration column is to account for use of TIRKS.

USOC INVESTMENT DETAILS

Study Number:

Study Name: SAMPLE OF $10,000

Tariff Element: SAMPLE OF $10,000

State	Tariff Ref	USOC	Modifier	Technology	Vol. Sens.	Economic Type	Investment Basis
FL			A		VS	DIR	

	PRIMARY INVESTMENT DATA				INVESTMENT LOADING FACTORS				SUPPORT STRUCTURE LOADINGS			BOOKED INVESTMENTS	
Field Code	Description	Capital Investment	Operating Investment	Date	FC Factor	InPlant Factor	InPlant Type	CE&P Factor	Loading Factor	Loading Type	Field Code	Capital Investment	Operating Investment
357C	SAMPLE OF $10,000	10,000.00	10,000.00	5/08/96	.9700	1.8700	H	1.1202				20,319.31	20,319.31
357C	- Support Loading ----->			5/08/96					.0404	circuit_bldg	10C	820.90	820.90
357C	- Support Loading ----->			5/08/96					.0030	circuit_land	20C	60.96	60.96
										ADJUSTED TOTAL INVESTMENT:		21,201.17	21,201.17

FI8G01Q 00097

NOTES: 1. The BOOKED INVESTMENT for PRIMARY INVESTMENTS is calculated by multiplying the PRIMARY INVESTMENT by the applicable INVESTMENT LOADING FACTORS.

2. The BOOKED INVESTMENT for SUPPORT STRUCTURE LOADINGS is calculated by multiplying the applicable Loading Factor by the sum of INVESTMENTS for each primary Field Code.

3. InPlant Factor types: T = Telco, C = Material Composite, H = Material Hardwire, P = Material Plugin

4. The FC factor is the levelized inflation factor for investments.

State	Tariff Ref	USOC	Modifier	Technology	Vol. Sens.	Economic Type	Investment Basis
FL			B		VS	DIR	

	PRIMARY INVESTMENT DATA				INVESTMENT LOADING FACTORS				SUPPORT STRUCTURE LOADINGS			BOOKED INVESTMENTS	
Field Code	Description	Capital Investment	Operating Investment	Date	FC Factor	InPlant Factor	InPlant Type	CE&P Factor	Loading Factor	Loading Type	Field Code	Capital Investment	Operating Investment
357C	SAMPLE OF $10,000	10,000.00	10,000.00	5/08/96	.9700	1.0600	P	1.1202				11,517.90	11,517.90
357C	- Support Loading ----->			5/08/96					.0404	circuit_bldg	10C	465.32	465.32
357C	- Support Loading ----->			5/08/96					.0030	circuit_land	20C	34.55	34.55
										ADJUSTED TOTAL INVESTMENT:		12,017.77	12,017.77

FL85010 00098

NOTES: 1. The BOOKED INVESTMENT for PRIMARY INVESTMENTS is calculated by multiplying the PRIMARY INVESTMENT by the applicable INVESTMENT LOADING FACTORS.
2. The BOOKED INVESTMENT for SUPPORT STRUCTURE LOADINGS is calculated by multiplying the applicable Loading Factor by the sum of INVESTMENTS for each primary Field Code.
3. InPlant Factor types: T = Telco, C = Material Composite, H = Material Hardwire, P = Material Plugin
4. The FC factor is the levelized inflation factor for investments.

State	Tariff Ref	USOC	Modifier	Technology	Volume Sensitivity	Economic Type	Investment Basis
FL			A		VS	DIR	

		INVESTMENT DATA			ANNUAL COST FACTORS							ANNUAL EXPENSES						
Field Code	St	Capital Investment	Operating Investment	Date	Depr. Factor	C.O.M. Factor	Inc Tax Factor	Mtce. Factor	Admin Factor	AdVal Factor	GRT Factor	Depr. Expense	C.O.M. Expense	Inc Tax Expense	Mtce. Expense	Admin Expense	Adval Expense	GRT Expense
10C	FL	820.90	820.90		.0302	.0986	.0452	.0069	0.0000	.0113	.0152	24.79	80.94	37.10	5.66	0.00	9.28	2.40
20C	FL	60.96	60.96		0.0000	.1118	.0514	0.0000	0.0000	.0113	.0152	0.00	6.82	3.13	0.00	0.00	.69	.16
357C	FL	20,319.31	20,319.31		.1134	.0638	.0297	.0086	.0052	.0113	.0152	2,304.21	1,296.37	603.48	174.75	105.66	229.61	71.65

SUMMARY:	ADJUSTED TOTAL INVESTMENT		21,201.17		
	ANNUAL CAPITAL COSTS:	Depreciation Expense	2,329.00		
		Cost of Money	1,384.13		
		Income Tax Expense	643.72		
	ANNUAL OPERATING EXPENSES:	Maintenance Expense	180.41		
		Administration Expense	105.66		
		Ad Valorem and Other Taxes	239.57		
	Gross Receipts Tax		74.21		
	TOTAL ANNUAL COSTS		4,956.71	TOTAL MONTHLY COST:	413.06

FL8G01Q 00099

NOTES: 1. Capital and Operating Investments are the BOOKED INVESTMENTS from ACE Report 10.
2. Depreciation, Cost of Money, and Income Tax Expenses = Capital Investment multiplied by the corresponding Annual Cost Factor.
3. Maintenance, Administrative, and Ad Valorem Expenses = Operating Investment multiplied by the corresponding Annual Cost Factor.
4. Gross Receipts Tax = Gross Receipts Tax Factor multiplied by the sum of *Capital Costs and Operating Expenses*.

State	Tariff Ref	USOC	Modifier	Technology	Volume Sensitivity	Economic Type	Investment Basis
FL			B		VS	DIR	

		INVESTMENT DATA			ANNUAL COST FACTORS							ANNUAL EXPENSES						
Field Code	St	Capital Investment	Operating Investment	Date	Depr. Factor	C.O.M. Factor	Inc Tax Factor	Mtce. Factor	Admin Factor	AdVal Factor	GRT Factor	Depr. Expense	C.O.M. Expense	Inc Tax Expense	Mtce. Expense	Admin Expense	Adval Expense	GRT Expense
10C	FL	465.32	465.32		.0302	.0986	.0452	.0069	0.0000	.0113	.0152	14.05	45.88	21.03	3.21	0.00	5.26	1.36
20C	FL	34.55	34.55		0.0000	.1118	.0514	0.0000	0.0000	.0113	.0152	0.00	3.86	1.78	0.00	0.00	.39	.09
357C	FL	11,517.90	11,517.90		.1134	.0638	.0297	.0086	.0052	.0113	.0152	1,306.13	734.84	342.08	99.05	59.89	130.15	40.62

SUMMARY:			
	ADJUSTED TOTAL INVESTMENT		12,017.77
	ANNUAL CAPITAL COSTS:	Depreciation Expense	1,320.18
		Cost of Money	784.59
		Income Tax Expense	364.89
	ANNUAL OPERATING EXPENSES:	Maintenance Expense	102.26
		Administration Expense	59.89
		Ad Valorem and Other Taxes	135.80
	Gross Receipts Tax		42.07
	TOTAL ANNUAL COSTS		2,809.68

TOTAL MONTHLY COST: 234.14

F18G01Q 00100

NOTES: 1. Capital and Operating Investments are the BOOKED INVESTMENTS from ACE Report 10.
2. Depreciation, Cost of Money, and Income Tax Expenses = Capital Investment multiplied by the corresponding Annual Cost Factor.
3. Maintenance, Administrative, and Ad Valorem Expenses = Operating Investment multiplied by the corresponding Annual Cost Factor.
4. Gross Receipts Tax = Gross Receipts Tax Factor multiplied by the sum of Capital Costs and Operating Expenses.

FLORIDA

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP

COST STUDY DOCUMENTATION

SECTIONS A THRU 7

FLORIDA
UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
COST STUDY DOCUMENTATION

CONTENTS

SECTION A

SECTION A

FLORIDA UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP

PROPRIETARY RATIONALE

The Florida Unbundled 4-Wire DS1 Digital Grade Loop Cost Study contains actual unit cost information for discrete cost elements. These costs reflect BellSouth's long run incremental cost of providing this element on a going forward basis. Public disclosure of this information would provide BellSouth's competitors with an advantage in that they would know the price or rate below which BellSouth could not provide the service. The data is valuable to competitors and potential competitors in formulating strategic plans for entry, pricing, marketing and overall business strategies concerning access services. This information relates to the competitive interests of BellSouth and disclosure would impair the competitive business of BellSouth. For these reasons, the Florida Unbundled 4-Wire DS1 Digital Grade Loop Cost Study is considered proprietary.

Additionally, the study contains information which reflects vendor-specific prices negotiated by BellSouth. Public disclosure of this information would impair BellSouth's ability to contract for goods and/or services on favorable terms. For these reasons, the Florida Unbundled Loop Cost Study is considered proprietary.

SECTION 1

SECTION 1

FLORIDA UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP

INTRODUCTION AND OVERVIEW

This Long Run Incremental Cost study for the Unbundled 4-Wire DS1 Digital Grade Loop in the state of Florida is being provided in response to Docket No. 950984-TP Order No. PSC-96-0444-FOF-TP Issued March 29, 1996.

The Unbundled 4-Wire DS1 Digital Grade Loop provides for simultaneous two-way transmission of isochronous digital signals at speeds of 1.544 Mbps. When the facility is used with a standard channel bank or direct integration equipment, it provides the equivalent of 24 voice grade channels. The facility extends from the network interface at the Alternative Local Exchange Company's (ALEC) customer premises to a DSX-1 cross-connect panel termination in the central office.

A long run incremental cost study considers the network architectures and technologies that will be used to provide the service being studied in the future. BellSouth Network provided the following five designs as representative of the forward looking network architectures which will be used to deploy DS1 service from the central office to a customer premises.

- ◊ Design #1 - Central Office to Customer Premises on all copper
- ◊ Design #2 - Central Office to Customer Premises on an OC-3 SONET Ring
- ◊ Design #3 - Central Office to Customer Premises on an OC-3+ SONET Ring
- ◊ Design #4 - Central Office through an Intermediate Hub on an OC-3 SONET Ring to Customer Premises on a Copper Extension
- ◊ Design #5 - Central Office through an Intermediate Hub on an OC-12 SONET Ring to Customer Premises on an OC-3 SONET Ring Extension

Recurring costs were developed for each design and then weighted by the probability of occurrence.

Recurring costs presented in this study are directly assigned, incremental and levelized so as to be appropriate for the 1996-1998 study period. Nonrecurring costs follow the same convention and represent 1996-1998 level costs also. These long-run incremental costs are developed by using 1995 level incremental loadings and annual cost factors based on 13.2% Cost of Money and directly assigned labor rates.

SECTION 2

SECTION 2

FLORIDA UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP

DESCRIPTION OF STUDY PROCEDURES

This section describes the general principles for the development of costs supporting the Florida Unbundled 4-Wire DS1 Digital Grade Loop.

All costs are developed utilizing Long Run Incremental Cost methodology. In determining these costs, direct incremental costing techniques are used that are in accordance with accepted economic theory. Direct incremental costs are based on cost causation and include all of the costs directly caused by expanding production, or, alternately, costs that would be saved if the production levels were reduced. Costs are forward looking in nature because only future costs can be saved. Incremental costs are long run to insure that the time period studied is sufficient to capture all forward looking costs affected by the business decision. Shared and common costs are not incremental and therefore are not included. Incremental costs include both recurring (capital and operating expenses) and nonrecurring (service provisioning) costs. Incremental costs account for the expected change in cost to the firm resulting from a new service offering or a change in demand for an existing service.

THE DEVELOPMENT OF RECURRING COSTS

The monthly costs to BellSouth Telecommunications, Inc., resulting from the capital investments necessary to provide a service are called recurring costs. Recurring costs include capital and operating costs. While capital costs include depreciation, cost of money and income tax, operating costs are the expenses of maintenance and ad valorem and other taxes. These expenses contribute to the ongoing cost to the company associated with the initial capital investment. Recurring costs are developed using incremental economic study applications, representing a forward-looking view of technology and deployment.

The first step in developing an incremental study of recurring costs for the Unbundled 4-Wire DS1 Digital Grade Loop is to determine the forward-looking network architecture. Material prices for the equipment are defined. Next, account specific Telephone Plant Indices are applied, when necessary, to trend investments to the base study period. In-plant factors are applied to material prices to develop installed investments which include engineering

and installation labor. The deployment probabilities, capacity, spare stock and utilization of the equipment are also considered.

Plant account specific Investment Inflation Factors are applied to the installed investments to trend the base year, or study year, investments to levelized amounts that are valid for a three to five year planning period. Appropriate loadings for land, building and miscellaneous common equipment and power are then applied.

Next, 1995 level Florida Intrastate Incremental Annual Cost Factors are used to calculate the direct cost of capital (in this case, 13.2%), ongoing maintenance and other operating expenses and taxes. These factors (specific factors for each USOA FRC) are applied to levelized investments by account code, yielding an annual cost per account code. These costs are then divided by twelve to arrive at a monthly cost per cost element.

THE DEVELOPMENT OF NONRECURRING COSTS

Nonrecurring costs are "one-time" costs incurred as a result of provisioning, installing, and disconnecting the Unbundled 4-Wire DS1 Digital Grade Loop . The first step in developing nonrecurring costs is to determine the cost elements related to the study. These cost elements are then described by all of the individual work functions required to provision the cost element. The work functions can be grouped into four categories. These are service order, engineering, connect and test, and technician travel time. The work function times, identified by subject matter experts, are used to describe the flow of work within the various work centers involved. Installation and provisioning costs are developed by multiplying the work time for each work function by the directly assigned labor rate for the work group performing the function.

Disconnect costs are calculated in the same manner, utilizing work functions, work times and labor rates. However, a disconnect factor associated with the projected location life of the cost element is applied to the disconnect cost. The disconnect factor inflates the labor cost to the period of the future disconnect, discounts these costs to the present, since the money is received up-front, and adjusts for the income tax effect due to the difference in time between the receipt of money and the disconnect expense. The disconnect cost is added to the installation cost to develop the total nonrecurring cost.

SECTION 3

SECTION 3

FLORIDA UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP

SUMMARY OF RESULTS

This section contains a cost summary for both recurring and nonrecurring cost elements studied for the 1996-1998 Unbundled 4-Wire DS1 Digital Grade Loop for Florida.

FLORIDA UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP

SUMMARY OF RESULTS

		Monthly Cost	Nonrecurring Cost First	Nonrecurring Cost Additional
Line 1	Flat Rate DS1 Digital Loop			

SECTION 4

SECTION 4

FLORIDA UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP

COST DEVELOPMENT - RECURRING

This section defines the cost development of the recurring costs for the Florida Unbundled 4-Wire DS1 Digital Grade Loop.

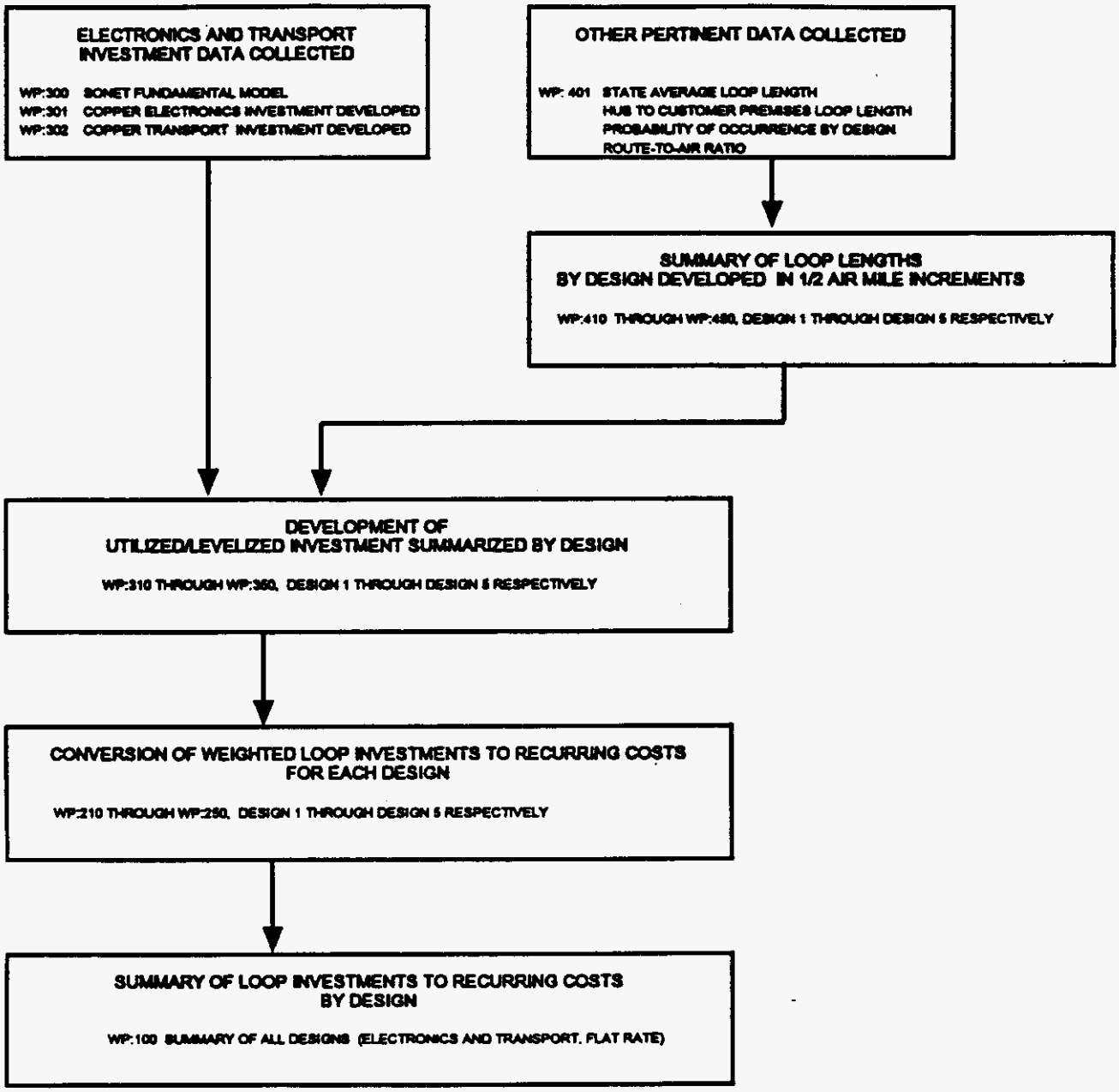
Generally, economic cost development is outlined in Section 2. Network architecture is determined, the necessary equipment is identified, material prices are obtained, factors, utilization and loadings are applied and the result is levelized for the study period. Annual cost factors are applied to convert the investment to cost.

Recurring costs are developed for each of the five network designs. The costs are developed for fixed electronics, which includes all hardwired and common plug-ins in the central office, any intermediate hubbing, and at the customer premises. The working DS1 cards are only included at the central office and customer premises. Recurring costs for the transport are also developed on a per half-mile which includes the fiber and all support structures.

Since the service is flat rated, a flat rate cost is developed for each design based on the average length of the local channel. The designs are weighted by probability of occurrence to determine the cost of the 4-Wire DS1 Digital Grade Loop offering.

The following workpapers develop the investment, convert the investment to monthly costs, and summarize the results.

4-WIRE DS1 DIGITAL GRADE LOOP



SUMMARY

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1996-1998 LEVEL

STATE: FLORIDA
WORKPAPER: 100
PAGE 1 OF 1
DATE: APRIL, 1996

LINE NO.		(A) INVESTMENT	(B) DEPREC.	(C) COM	(D) IT EXPENSE	(E)=(B)+(C)+(D) TOTAL CAPITAL COSTS	(F) MAINT.	(G) AD VALOREM AND OTHER TAXES	(H) TIRKS EXPENSE	(I)=(F)+(G)+(H) TOTAL OPERATING COSTS	(J) CRT	(K)=(E)+(I)+(J) TOTAL UNIT ANNUAL COSTS	(L)=(K)/12 TOTAL UNIT MONTHLY COSTS	SOURCES
1	**DESIGN 1**													
2														
3														
4														
5	ELECTRONICS													WP:210. Page 1 of 2, Line 48
6	TRANSPORT (FLAT RATE)													WP:210. Page 1 of 2, Line 49
7														
8														
9	**DESIGN 2**													
10														
11														
12	ELECTRONICS													WP:220. Page 1 of 2, Line 43
13	TRANSPORT (FLAT RATE)													WP:220. Page 1 of 2, Line 44
14														
15														
16	**DESIGN 3**													
17														
18														
19	ELECTRONICS													WP:230. Page 1 of 2, Line 43
20	TRANSPORT (FLAT RATE)													WP:230. Page 1 of 2, Line 44
21														
22														
23	**DESIGN 4**													
24														
25														
26	ELECTRONICS													WP:240. Page 2 of 3, Line 80
27	TRANSPORT (FLAT RATE)													WP:240. Page 2 of 3, Line 81
28														
29														
30	**DESIGN 5**													
31														
32														
33	ELECTRONICS													WP:250. Page 2 of 3, Line 74
34	TRANSPORT (FLAT RATE)													WP:250. Page 2 of 3, Line 75
35														
36														
37														
38														
39	**TOTAL ALL DESIGNS**													
40														
41														
42	ELECTRONICS													WP:100,Pg 1 of 1, Lines 5,12,19,26,33
43	TRANSPORT (FLAT RATE)													WP:100,Pg 1 of 1, Lines 6,13,20,27,34
44														
45	TOTAL FLAT RATE													WP:100,Pg 1 of 1, Lines 42,43

FLRG010 00116

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1996-1998 LEVEL

MONTHLY COST DEVELOPMENT

STATE: FLORIDA
WORKPAPER: 210
PAGE 1 OF 2
DATE: APRIL, 1996

DESIGN 1 INVESTMENT/COST SUMMARY
ELECTRONICS and TRANSPORT

LINE NO		ACCT CODE	(A) INVESTMENT	(B) DEPREC.	(C) COM	(D) IT EXPENSE	(B)+(B)+(C)+(D) TOTAL CAPITAL COSTS	(F) MAINT	(G) AD VALOREM AND OTHER TAXES	(H) TIRKS EXPENSE	(F)+(F)+(G)+(H) TOTAL OPERATING COST	(J) GRT	(E)+(B)+(D)+(J) UNIT ANNUAL COSTS	(L)÷(E)/12 MONTHLY COSTS (AIR MILES)
1	ELECTRONICS													
2	*SOURCE FOR COL (A) INV. WP:310,*	257C												
3	*PAGE 1 OF 2, LINES 32 THRU 36*	377C												
4		20C												
5		16C												
6		12C												
7														
8	TOTAL ELECTRONICS DESIGN 1													
9														
10	TRANSPORT 1/2 MILE (AIR MILE)													
11	*SOURCE FOR COL (A) INV. WP:310,*	22C												
12	*PAGE 2 OF 2, LINES 68 THRU 76*	1C												
13		5C												
14		4C												
15		45C												
16		257C												
17														
18	TOTAL TRANSPORT DESIGN 1													
19														
20														
21														
22														
23														

		SOURCE
24	TOTAL FIRST HALF AIR MILE	ELECTRONICS *LINE 8*
25		TRANSPORT *LINE 18*
26		
27		
28	TOTAL SECOND HALF MILE	TRANSPORT *LINE 18*
29		
30	TOTAL FLAT RATE	ELECTRONICS *LINE 8*
31		TRANSPORT *INE 18 * WP:410*
32		*LINE 16*
33		
34		
35		
36		
37	*WEIGHTED INVESTMENT/COST SUMMARY*	
38		*SOURCE*
39	PROBABILITY OF OCCURENCE	*WP:401, LINE 12*
40	WEIGHTED FIRST HALF AIR MILE	ELECTRONICS *LINE 24 * LINE 39*
41		TRANSPORT *LINE 26 * LINE 39*
42		
43	WEIGHTED SECOND HALF MILE	TRANSPORT *LINE 26 * LINE 39*
44		
45		
46	*FLAT RATE WEIGHTED INVESTMENT/COST SUMMARY*	
47		
48		ELECTRONICS *LINE 30 * LINE 39*
49		TRANSPORT *LINE 31 * LINE 39*
50		
51		
52		

FLBG010 00117

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1996-1998 LEVEL

DESIGN 1 INVESTMENT/COST SUMMARY
ELECTRONICS and TRANSPORT (cont.)

SOURCES:

ELECTRONICS WP 210, PAGE 1 OF 2, LINES 1 THRU 8

COLUMN (A)	WP:310, Page 1 of 2, Lines 32 thru 36 (acct code specific)
COLUMN (B)	WP:210, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (A) (acct code specific)
COLUMN (C)	WP:210, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (B) (acct code specific)
COLUMN (D)	WP:210, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (C) (acct code specific)
COLUMN (E)	WP:210, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (D) (acct code specific)
COLUMN (F)	WP:210, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (E) (acct code specific)
COLUMN (G)	WP:210, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (F) (acct code specific)
COLUMN (H)	WP:210, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, TIRKS expense (acct code specific)
COLUMN (I)	WP:210, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (H) (acct code specific)
COLUMN (J)	WP:210, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (I) (acct code specific)
COLUMN (K)	WP:210, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (J) (acct code specific)
COLUMN (L)	Calculation

SOURCES

TRANSPORT WP 210, PAGE 1 OF 2, LINES 10 THRU 16

COLUMN (A)	WP:310, Page 2 of 2, Lines 67 thru 72 (acct code specific)
COLUMN (B)	WP:210, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (A) (acct code specific)
COLUMN (C)	WP:210, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (B) (acct code specific)
COLUMN (D)	WP:210, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (C) (acct code specific)
COLUMN (E)	WP:210, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (D) (acct code specific)
COLUMN (F)	WP:210, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (E) (acct code specific)
COLUMN (G)	WP:210, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (F) (acct code specific)
COLUMN (H)	WP:210, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, TIRKS expense (acct code specific)
COLUMN (I)	WP:210, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (H) (acct code specific)
COLUMN (J)	WP:210, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (I) (acct code specific)
COLUMN (K)	WP:210, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (J) (acct code specific)
COLUMN (L)	Calculation

SOURCES:

TOTALS WP 210, PAGE 1 OF 2, LINES 24 THRU 53

TOTAL FIRST HALF MILE - ELECTRONICS	WP:210, Page 1 of 2, Line 8 (Column (A) thru (L) (category specific)
TOTAL FIRST HALF MILE - TRANSPORT	WP:210, Page 1 of 2, Line 18 (Column (A) thru (L) (category specific)
TOTAL SECOND HALF MILE - TRANSPORT	WP:210, Page 1 of 2, Line 18 (Column (A) thru (L) (category specific)
TOTAL FLAT RATE - ELECTRONICS	WP:210, Page 1 of 2, Line 8 (Column (A) thru (L) (category specific)
TOTAL FLAT RATE - TRANSPORT	WP:210, Page 1 of 2, Line 18 (Column (A) thru (L) (category specific) multiplied by WP:410, Line 16
PROBABILITY OF OCCURENCE	WP:401, Page 1 of 1, Line 12
WEIGHTED FIRST HALF AIR MILE - ELECTRONICS	WP:210, Page 1 of 2, Line 24 (Column (A) thru (L) (category specific) multiplied by WP:210, Page 1 of 2, Line 38
WEIGHTED FIRST HALF AIR MILE - TRANSPORT	WP:210, Page 1 of 2, Line 25 (Column (A) thru (L) (category specific) multiplied by WP:210, Page 1 of 2, Line 38
WEIGHTED FLAT RATE - ELECTRONICS	WP:210, Page 1 of 2, Line 30 (Column (A) thru (L) (category specific) multiplied by WP:210, Page 1 of 2, Line 38
WEIGHTED FLAT RATE AIR MILE - TRANSPORT	WP:210, Page 1 of 2, Line 31 (Column (A) thru (L) (category specific) multiplied by WP:210, Page 1 of 2, Line 38

MONTHLY COST DEVELOPMENT

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1996-1998 LEVEL

STATE: FLORIDA
WORKPAPER: 220
PAGE 1 OF 2
DATE: APRIL, 1996

DESIGN 2 INVESTMENT/COST SUMMARY
ELECTRONICS and TRANSPORT

LINE NO		ACCT CODE	(A) INVESTMENTS	(B) DEPREC.	(C) COM	(D) IT EXPENSE	(E)=(B)+(C)+(D) TOTAL CAPITAL COSTS	(F) MAINT.	(G) AD VALOREM AND OTHER TAXES	(H) TRKS EXPENSE	(I)=(F)+(G)+(H) TOTAL OPERATING COST	(J) GRT	(K)=(E)+(I)+(J) UNIT ANNUAL COSTS	(L)= (K)/12 MONTHLY COSTS (AIR MILES)
1	ELECTRONICS													
2	*SOURCE FOR COL (A) INV. WP:320,*	257C												
3	*PAGE 1 OF 2, LINES 40 THRU 43*	20C												
4		19C												
5		812C												
6														
7	TOTAL ELECTRONICS DESIGN 2													
8														
9	TRANSPORT 1/3 MILE (AIR MILE)													
10	*SOURCE FOR COL (A) INV. WP:320,*	822C												
11	*PAGE 2 OF 2, LINES 95 THRU 99*	1C												
12		85C												
13		4C												
14		845C												
15														
16	TOTAL TRANSPORT DESIGN 2													
17														
18														
19			*SOURCE*											
20	TOTAL, FIRST HALF AIR MILE	ELECTRONICS	*LINE 7*											
21		TRANSPORT	*LINE 16*	$										
22														
23														
24	TOTAL, SECOND HALF MILE	TRANSPORT	*LINE 16*	$										
25														
26	TOTAL, FLAT RATE	ELECTRONICS	*LINE 7*											
27		TRANSPORT	*LINE 16 *WP:420*	$										
28			*LINE 16*											
29														
30														
31	WEIGHTED INVESTMENT/COST SUMMARY													
32			*SOURCE*											
33	PROBABILITY OF OCCURENCE		*WP:401, LINE 13*											
34														
35	WEIGHTED FIRST HALF AIR MILE	ELECTRONICS	*LINE 20 * LINE 33*	$										
36		TRANSPORT	*LINE 21 * LINE 33*											
37														
38	WEIGHTED SECOND HALF MILE	TRANSPORT	*LINE 24 * LINE 33*											
39														
40														
41	FLAT RATE WEIGHTED INVESTMENT/COST SUMMARY													
42														
43		ELECTRONICS	*LINE 26 * LINE 33*											
44		TRANSPORT	*LINE 27 * LINE 33*											
45														
46														
47														

FL8G010 00119

MONTHLY COST DEVELOPMENT

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1996-1999 LEVEL

DESIGN 2 INVESTMENT/COST SUMMARY
ELECTRONICS and TRANSPORT (cont.)

SOURCES

ELECTRONICS WP:220, PAGE 1 OF 2, LINES 1 THRU 5

COLUMN (A)	WP:320, Page 1 of 2, Lines 38 thru 42 (acct code specific)
COLUMN (B)	WP:220, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (A) (acct code specific)
COLUMN (C)	WP:220, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (B) (acct code specific)
COLUMN (D)	WP:220, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (C) (acct code specific)
COLUMN (E)	WP:220, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (D) (acct code specific)
COLUMN (F)	WP:220, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (E) (acct code specific)
COLUMN (G)	WP:220, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (F) (acct code specific)
COLUMN (H)	WP:220, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, TIRKS expense (acct code specific)
COLUMN (I)	WP:220, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (H) (acct code specific)
COLUMN (J)	WP:220, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (I) (acct code specific)
COLUMN (K)	WP:220, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (J) (acct code specific)
COLUMN (L)	Calculation

SOURCES

TRANSPORT WP:220, PAGE 1 OF 2, LINES 9 THRU 13

COLUMN (A)	WP:320, Page 2 of 2, Lines 95 thru 99 (acct code specific)
COLUMN (B)	WP:220, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (A) (acct code specific)
COLUMN (C)	WP:220, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (B) (acct code specific)
COLUMN (D)	WP:220, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (C) (acct code specific)
COLUMN (E)	WP:220, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (D) (acct code specific)
COLUMN (F)	WP:220, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (E) (acct code specific)
COLUMN (G)	WP:220, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (F) (acct code specific)
COLUMN (H)	WP:220, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, TIRKS expense (acct code specific)
COLUMN (I)	WP:220, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (H) (acct code specific)
COLUMN (J)	WP:220, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (I) (acct code specific)
COLUMN (K)	WP:220, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (J) (acct code specific)
COLUMN (L)	Calculation

SOURCES

TOTALS WP:220, PAGE 1 OF 2, LINES 20 THRU 44

TOTAL FIRST HALF MILE - ELECTRONICS	WP:220, Page 1 of 2, Line 7 (Column (A) thru (L) (category specific)
TOTAL FIRST HALF MILE - TRANSPORT	WP:220, Page 1 of 2, Line 16 (Column (A) thru (L) (category specific)
TOTAL SECOND HALF MILE - TRANSPORT	WP:220, Page 1 of 2, Line 16 (Column (A) thru (L) (category specific)
TOTAL FLAT RATE - ELECTRONICS	WP:220, Page 1 of 2, Line 7 (Column (A) thru (L) (category specific)
TOTAL FLAT RATE - TRANSPORT	WP:220, Page 1 of 2, Line 16 (Column (A) thru (L) category specific multiplied by WP:420, Line 12
PROBABILITY OF OCCURRENCE	WP:401, Page 1 of 1, Line 13
WEIGHTED FIRST HALF AIR MILE - ELECTRONICS	WP:220, Page 1 of 2, Line 20 (Column (A) thru (L) (category specific) multiplied by WP:220, Page 1 of 2, Line 33
WEIGHTED FIRST HALF AIR MILE - TRANSPORT	WP:220, Page 1 of 2, Line 21 (Column (A) thru (L) (category specific) multiplied by WP:220, Page 1 of 2, Line 33
WEIGHTED FLAT RATE - ELECTRONICS	WP:220, Page 1 of 2, Line 26 (Column (A) thru (L) (category specific) multiplied by WP:220, Page 1 of 2, Line 33
WEIGHTED FLAT RATE AIR MILE - TRANSPORT	WP:220, Page 1 of 2, Line 27 (Column (A) thru (L) (category specific) multiplied by WP:220, Page 1 of 2, Line 33

FL98010 001120

MONTHLY COST DEVELOPMENT

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1996-1998 LEVEL

STATE: FLORIDA
WORKPAPER: 230
PAGE 1 OF 2
DATE: APRIL

DESIGN 3 INVESTMENT/COST SUMMARY
ELECTRONICS and TRANSPORT

LINE NO		ACCT CODE	(A) INVESTMENTS	(B) DEPREC	(C) COM	(D) IT EXPENSE	(B)+(B)+(C)+(D) TOTAL CAPITAL COSTS	(F) MAINT.	(G) AD VALOREM AND OTHER TAXES	(H) TRKS EXPENSE	(F)+(G)+(H) TOTAL OPERATING COST	(J) GRT	(I)+(H)+(J) UNIT ANNUAL COSTS	(K) = (I)/ 12 MONTHLY COSTS (AIR MILES)
1	ELECTRONICS													
2	*SOURCE FOR COL (A) INV. WP.330,*	217C												
3	*PAGE 1 OF 2, LINES 37 THRU 42*	28C												
4		10C												
5		812C												
6														
7	TOTAL ELECTRONICS DESIGN 3													
8														
9	TRANSPORT 1/2 MILE (AIR MILE)													
10	*SOURCE FOR COL (A) INV. WP.330,*	822C												
11	*PAGE 2 OF 2, LINES 98 THRU 102*	1C												
12		85C												
13		4C												
14		845C												
15														
16	TOTAL TRANSPORT DESIGN 3													
17														
18														
19														
20	TOTAL FIRST HALF AIR MILE	ELECTRONICS	*LINE 7*											
21		TRANSPORT	*LINE 16*											
22														
23														
24	TOTAL SECOND HALF MILE	TRANSPORT	*LINE 16*											
25														
26	TOTAL FLAT RATE	ELECTRONICS	*LINE 7*											
27		TRANSPORT	*LINE 16 * WP.430,*											
28			*LINE 16*											
29														
30														
31	WEIGHTED INVESTMENT/COST SUMMARY													
32			SOURCE											
33	PROBABILITY OF OCCURENCE		*WP.401, LINE 14*											
34														
35	WEIGHTED FIRST HALF AIR MILE	ELECTRONICS	*LINE 20 * LINE 3..*											
36		TRANSPORT	*LINE 21 * LINE 33*											
37														
38	WEIGHTED SECOND HALF MILE	TRANSPORT	*LINE 24 * LINE 33*											
39														
40														
41	FLAT RATE WEIGHTED INVESTMENT/COST SUMMARY													
42														
43		ELECTRONICS	*LINE 26 * LINE 3*											
44		TRANSPORT	*LINE 27 * LINE 3*											
45														
46														

F18G01Q 000121

MONTHLY COST DEVELOPMENT

UNBUNDLED 4 WIRE DS1 DIGITAL GRADE LOOP
1996-1998 LEVEL

DESIGN 8 INVESTMENT/COST SUMMARY
ELECTRONICS and TRANSPORT (cont.)

SOURCES
ELECTRONICS WP 230, PAGE 1 OF 2, LINES 1 THRU 6

COLUMN (A)	WP:330, Page 1 of 2, Lines 38 thru 41 (acct code specific)
COLUMN (B)	WP:230, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (A) (acct code specific)
COLUMN (C)	WP:230, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (B) (acct code specific)
COLUMN (D)	WP:230, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (C) (acct code specific)
COLUMN (E)	WP:230, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (D) (acct code specific)
COLUMN (F)	WP:230, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (E) (acct code specific)
COLUMN (G)	WP:230, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (F) (acct code specific)
COLUMN (H)	WP:230, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, TIRKS expense (acct code specific)
COLUMN (I)	WP:230, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (H) (acct code specific)
COLUMN (J)	WP:230, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (I) (acct code specific)
COLUMN (K)	WP:230, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (J) (acct code specific)
COLUMN (L)	Calculation

SOURCES
TRANSPORT WP 230, PAGE 1 OF 2, LINES 9 THRU 16

COLUMN (A)	WP:330, Page 2 of 2, Lines 98 thru 103 (acct code specific)
COLUMN (B)	WP:230, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (A) (acct code specific)
COLUMN (C)	WP:230, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (B) (acct code specific)
COLUMN (D)	WP:230, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (C) (acct code specific)
COLUMN (E)	WP:230, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (D) (acct code specific)
COLUMN (F)	WP:230, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (E) (acct code specific)
COLUMN (G)	WP:230, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (F) (acct code specific)
COLUMN (H)	WP:230, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, TIRKS expense (acct code specific)
COLUMN (I)	WP:230, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (H) (acct code specific)
COLUMN (J)	WP:230, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (I) (acct code specific)
COLUMN (K)	WP:230, Page 1 of 2, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (J) (acct code specific)
COLUMN (L)	Calculation

SOURCES
TOTALS WP 230, PAGE 1 OF 2, LINES 20 THRU 45

TOTAL FIRST HALF MILE - ELECTRONICS	WP:230, Page 1 of 2, Line 7 (Column (A) thru (L) (category specific)
TOTAL FIRST HALF MILE - TRANSPORT	WP:230, Page 1 of 2, Line 16 (Column (A) thru (L) (category specific)
TOTAL SECOND HALF MILE - TRANSPORT	WP 230, Page 1 of 2, Line 16 (Column (A) thru (L) (category specific)
TOTAL FLAT RATE - ELECTRONICS	WP:230, Page 1 of 2, Line 7 (Column (A) thru (L) (category specific)
TOTAL FLAT RATE - TRANSPORT	WP:230, Page 1 of 2, Line 16 (Column (A) thru (L) category specific multiplied by WP:430, Line 16
PROBABILITY OF OCCURRENCE	WP:401, Page 1 of 1, Line 14
WEIGHTED FIRST HALF AIR MILE - ELECTRONICS	WP:230, Page 1 of 2, Line 20 (Column (A) thru (L) (category specific) multiplied by WP:230, Page 1 of 2, Line 33
WEIGHTED FIRST HALF AIR MILE - TRANSPORT	WP:230, Page 1 of 2, Line 21 (Column (A) thru (L) (category specific) multiplied by WP:230, Page 1 of 2, Line 33
WEIGHTED FLAT RATE - ELECTRONICS	WP:230, Page 1 of 2, Line 26 (Column (A) thru (L) (category specific) multiplied by WP:230, Page 1 of 2, Line 33
WEIGHTED FLAT RATE AIR MILE - TRANSPORT	WP:230, Page 1 of 2, Line 27 (Column (A) thru (L) (category specific) multiplied by WP:230, Page 1 of 2, Line 33

F18G01Q 00122

MONTHLY COST DEVELOPMENT

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DESIGN 4 INVESTMENT/COST SUMMARY
ELECTRONICS and TRANSPORT

LINE NO.		ACCT CODE	(AA) INVESTMENT	(BB) WEIGHT	(A)=(AA)*(BB) WEIGHTED INVESTMENT	(B) DEPREC	(C) COM	(D) IT EXPENSE	(E)=(B)+(C)+(D) TOTAL CAPITAL COSTS	(F) MAINT	(G) AD VALOREM AND OTHER TAXES	(H) TKRS EXPENSE	(I)=(F)+(G)+(H) TOTAL OPERATING COST	(J) ORT	(K)=(E)+(I)+(J) UNIT ANNUAL COSTS	(L)=(K)/12 MONTHLY COSTS (AIR MILES)
1																
2	ELECTRONICS	237C		N/A												
3	*SOURCE FOR COL (AA) INV. WP: 340,*	20C		N/A												
4	*PAGE 1 OF 3, LINES 39 THRU 43*	10C		N/A												
5		12C		N/A												
6																
7	TOTAL ELECTRONICS DESIGN 4			N/A												
8																
9																
10	TRANSPORT (CO TO HUB) - FIBER	823C		61.17%												
11	1/3 MILE (AIR MILE)	1C		61.17%												
12	*SOURCE FOR COL (AA) INV. WP: 340,*	85C		61.17%												
13	*PAGE 1 OF 3, LINES 98 THRU 102*	4C		61.17%												
14	*SOURCE FOR COL (BB) % WP: 401*	845C		61.17%												
15	*PAGE 1 OF 1, LINE 3*															
16	TOTAL TRANSPORT (CO TO HUB) DESIGN 4			61.17%												
17																
18																
19	TRANSPORT (HUB TO CP) - COPPER	22C		38.83%												
20	1/3 MILE (AIR MILE)	1C		38.83%												
21	*SOURCE FOR COL (AA) INV. WP: 340,*	5C		38.83%												
22	*PAGE 3 OF 3, LINES 142 THRU 147*	4C		38.83%												
23	*SOURCE FOR COL (BB) % WP: 401*	45C		38.83%												
24	*PAGE 1 OF 1, LINE 1*	237C		38.83%												
25																
26	TOTAL TRANSPORT (HUB TO CP) DESIGN 4			38.83%												
27																
28																
29																
30																
31	TOTAL TRANSPORT DESIGN 4	823C														
32	1/3 MILE (AIR MILE)	1C														
33	*SUM OF LINES 31 THRU 39 (ACCOUNT*	85C														
34	*CODE SPECIFIC)*	4C														
35		845C														
36		22C														
37		45C														
38		5C														
39		237C														
40																
41	TOTAL TRANSPORT DESIGN 4															
42																
43																

F18G01Q 00123

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DESIGN 4 INVESTMENT SUMMARY ELECTRONICS and TRANSPORT (cont.)

(A)	(B)	(C)	(D)	(B)+(B)*(C)+(D) TOTAL	(F)	(G) AD VALOREM	(H)	(I)+(F)+(G)+(H) TOTAL	(J)	(E)+(B)*(I)*(J) UNIT	(L)+(K)/12 MONTHLY
WEIGHTED INVESTMENT	DEPREC	COM	IT EXPENSE	CAPITAL COSTS	MAINT	AND OTHER TAXES	TRKG EXPENSE	OPERATING COST	CRT	ANNUAL COSTS	COSTS (AIR MILES)

		SOURCE
TOTAL FIRST HALF AIR MILE	ELECTRONICS	*LINE 7*
	TRANSPORT	*LINE 41*
TOTAL SECOND HALF MILE	TRANSPORT	*LINE 41*
TOTAL FLAT RATE	ELECTRONICS	*LINE 7*
	TRANSPORT	*LINE 41 * WP: 600, LINE 17*

WEIGHTED INVESTMENT/COST SUMMARY

		SOURCE
PROBABILITY OF OCCURENCE		*WP:401, LINE 15*
WEIGHTED FIRST HALF AIR MILE	ELECTRONICS	*LINE 37 * LINE 70*
	TRANSPORT	*LINE 38 * LINE 70*
WEIGHTED SECOND HALF MILE	TRANSPORT	*LINE 41 * LINE 70*

FLAT RATE WEIGHTED INVESTMENT/COST SUMMARY

	ELECTRONICS	*LINE 63 * LINE 70*
	TRANSPORT	*LINE 64 * LINE 70*

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SOURCES

ELECTRONICS WP:240, PAGE 1 OF 3, LINES THRU 5

COLUMN (AA)	WP:340, Page 1 of 3, Lines 39 thru 42 (acct code specific)
COLUMN (BB)	N/A
COLUMN (A)	Calculation
COLUMN (B)	WP:240, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (A) (acct code specific)
COLUMN (C)	WP:240, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (B) (acct code specific)
COLUMN (D)	WP:240, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (C) (acct code specific)
COLUMN (E)	WP:240, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (D) (acct code specific)
COLUMN (F)	WP:240, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (E) (acct code specific)
COLUMN (G)	WP:240, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (F) (acct code specific)
COLUMN (H)	WP:240, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, TIRKS expense (acct code specific)
COLUMN (I)	WP:240, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (H) (acct code specific)
COLUMN (J)	WP:240, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (I) (acct code specific)
COLUMN (K)	WP:240, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (J) (acct code specific)
COLUMN (L)	Calculation

SOURCES

TRANSPORT (FIBER INVESTMENTS) WP:340, PAGE 1 OF 3, LINES 10 THRU 14

COLUMN (AA)	WP:340, Page 2 of 3, Lines 98 thru 102 (acct code specific)
COLUMN (BB)	WP:401, Page 1 of 1, Line 3, Column (B)
COLUMN (A)	Calculation

TRANSPORT (COPPER INVESTMENTS) WP:340, PAGE 1 OF 3, LINES 19 THRU 24

COLUMN (AA)	WP:340, Page 3 of 3, Lines 142 thru 147 (acct code specific)
COLUMN (BB)	WP:401, Page 1 of 1, Line 1, Column (B)
COLUMN (A)	Calculation

SOURCES

TRANSPORT (TOTAL COPPER AND FIBER INVESTMENTS) WP:340, PAGE 2 OF 3, LINES 34 THRU 83

COLUMN (A)	WP:240, Page 1 of 3, Sum of Lines 10 thru 24, Column (A) (acct code specific)
COLUMN (B)	WP:240, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (A) (acct code specific)
COLUMN (C)	WP:240, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (B) (acct code specific)
COLUMN (D)	WP:240, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (C) (acct code specific)
COLUMN (E)	WP:240, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (D) (acct code specific)
COLUMN (F)	WP:240, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (E) (acct code specific)
COLUMN (G)	WP:240, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (F) (acct code specific)
COLUMN (H)	WP:240, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, TIRKS expense (acct code specific)
COLUMN (I)	WP:240, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (H) (acct code specific)
COLUMN (J)	WP:240, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (I) (acct code specific)
COLUMN (K)	WP:240, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (J) (acct code specific)
COLUMN (L)	Calculation

SOURCES

TOTALS

TOTAL FIRST HALF MILE - ELECTRONICS	WP:240, Page 2 of 3, Line 8 (Column (A) thru (L) (category specific)
TOTAL FIRST HALF MILE - TRANSPORT	WP:240, Page 2 of 3, Line 41 (Column (A) thru (L) (category specific)
TOTAL SECOND HALF MILE - TRANSPORT	WP:240, Page 2 of 3, Line 41 (Column (A) thru (L) (category specific)
TOTAL FLAT RATE - ELECTRONICS	WP:240, Page 2 of 3, Line 8 (Column (A) thru (L) (category specific)
TOTAL FLAT RATE - TRANSPORT	WP:240, Page 2 of 3, Line 41 (Column (A) thru (L) category specific multiplied by WP:440, Line 20
PROBABILITY OF OCCURRENCE	WP:401, Page 1 of 1, Line 15
WEIGHTED FIRST HALF AIR MILE - ELECTRONICS	WP:240, Page 2 of 3, Line 57 (Column (A) thru (L) (category specific) multiplied by WP:240, Page 2 of 3, Line 70
WEIGHTED FIRST HALF AIR MILE - TRANSPORT	WP:240, Page 2 of 3, Line 58 (Column (A) thru (L) (category specific) multiplied by WP:240, Page 2 of 3, Line 70
WEIGHTED FLAT RATE - ELECTRONICS	WP:240, Page 2 of 3, Line 63 (Column (A) thru (L) (category specific) multiplied by WP:240, Page 2 of 3, Line 70
WEIGHTED FLAT RATE AIR MILE - TRANSPORT	WP:240, Page 2 of 3, Line 64 (Column (A) thru (L) (category specific) multiplied by WP:240, Page 2 of 3, Line 70

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DESIGN 5 INVESTMENT/COST SUMMARY
ELECTRONICS and TRANSPORT

LINE NO		ACCT CODE	(AA) INVESTMENT	(BB) WEIGHT	(AA)*(BB) WEIGHTED INVESTMENT	(B) DEPREC	(C) COM	(D) IT EXPENSE	(B)+(C)+(D) TOTAL CAPITAL COSTS	(F) MAINT	(G) AD VALOREM AND OTHER TAXES	(H) TIRKS EXPENSE	(F)+(G)+(H) TOTAL OPERATING COST	(I) ORT	(E)+(I)+(J) UNIT ANNUAL COSTS	(L)= (K)/12 MONTHLY COSTS (AIR MILES)
1																
2	ELECTRONICS	237C														
3	*SOURCE FOR COL (AA) INV. WP: 350*	20C														
4	*PAGE 1 OF 3, LINES 38 THRU 42*	10C														
5		813C														
6																
7	TOTAL ELECTRONICS DESIGN 5															
8																
9																
10	TRANSPORT (CO TO HUB)	823C		61.17%												
11	1/2 MILE (AIR MILE)	1C		61.17%												
12	*SOURCE FOR COL (AA) INV. WP: 350*	85C		61.17%												
13	*PAGE 3 OF 3, LINES 78 THRU 83*	4C		61.17%												
14	*SOURCE FOR COL (BB) % WP: 401*	845C		61.17%												
15	*PAGE 1 OF 1, LINE 3*															
16	TOTAL TRANSPORT (CO TO HUB) DESIGN 5			61.17%												
17																
18	TRANSPORT (HUB TO CP)	823C		38.83%												
19	1/2 MILE (AIR MILE)	1C		38.83%												
20	*SOURCE FOR COL (AA) INV. WP: 350*	85C		38.83%												
21	*PAGE 3 OF 3, LINES 134 THRU 138*	4C		38.83%												
22	*SOURCE FOR COL (BB) % WP: 401*	845C		38.83%												
23	*PAGE 1 OF 1, LINE 3*															
24	TOTAL TRANSPORT (HUB TO CP) DESIGN 5			38.83%												
25																
26	TOTAL TRANSPORT DESIGN 5	823C														
27	1/2 MILE (AIR MILE)	1C														
28	*SUM OF LINES 12 THRU 23 (ACCOUNT*	85C														
29	*CODE SPECIFIC)*	4C														
30		845C														
31																
32	TOTAL TRANSPORT DESIGN 5															
33																

F18G01Q 00126

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DESIGN 5 INVESTMENT/COST SUMMARY (cont.)
ELECTRONICS and TRANSPORT

	(A)	(B)	(C)	(D)	(E)=(B)+(C)+(D)	(F)	(G)	(H)	(I)=(F)+(G)+(H)	(J)	(K)=(A)+(E)+(I)	(L)= (K)/12
					TOTAL		AD VALOREM		TOTAL		UNIT	MONTHLY
	WEIGHTED			IT	CAPITAL		AND OTHER	RWLS	OPERATING		ANNUAL	COSTS
	INVESTMENT	DEPREC	COM	EXPENSE	COSTS	MAINT	TAXES	EXPENSE	COST	OAT	COSTS	(AIR MILES)

		SOURCE
TOTAL, FIRST HALF AIR MILE	ELECTRONICS	*LINE 7*
	TRANSPORT	*LINE 8*
TOTAL, SECOND HALF MILE	TRANSPORT	*LINE 9*
TOTAL, FLAT RATE	ELECTRONICS	*LINE 7*
	TRANSPORT	*LINE 8 * WP: 450*
		LINE 16

WEIGHTED INVESTMENT/COST SUMMARY

PROBABILITY OF OCCURENCE		*WP: 401, LINE 16*
WEIGHTED FIRST HALF AIR MILE	ELECTRONICS	*LINE 52 * LINE 64*
	TRANSPORT	*LINE 53 * LINE 64*
WEIGHTED SECOND HALF MILE	TRANSPORT	*LINE 55 * LINE 64*

FLAT RATE WEIGHTED INVESTMENT/COST SUMMARY

	ELECTRONICS	*LINE 57 * LINE 64*
	TRANSPORT	*LINE 58 * LINE 64*

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DESIGN 6 INVESTMENT/COST SUMMARY (cont.)
ELECTRONICS and TRANSPORT

SOURCES
ELECTRONICS WP: 250, PAGE 1 OF 3, LINES 1 THRU 6

COLUMN (AA)	WP:350, Page 1 of 3, Lines 39 thru 42 (acct code specific)
COLUMN (BB)	N/A
COLUMN (A)	Calculation
COLUMN (B)	WP:250, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (A) (acct code specific)
COLUMN (C)	WP:250, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (B) (acct code specific)
COLUMN (D)	WP:250, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (C) (acct code specific)
COLUMN (E)	WP:250, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (D) (acct code specific)
COLUMN (F)	WP:250, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (E) (acct code specific)
COLUMN (G)	WP:250, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (F) (acct code specific)
COLUMN (H)	WP:250, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, TIRKS expenses (acct code specific)
COLUMN (I)	WP:250, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (H) (acct code specific)
COLUMN (J)	WP:250, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (I) (acct code specific)
COLUMN (K)	WP:250, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (J) (acct code specific)
COLUMN (L)	Calculation

SOURCES
TRANSPORT (OC-12 FIBER INVESTMENTS) WP: 250, PAGE 1 OF 3, LINES 10 THRU 14

COLUMN (AA)	WP:350, Page 2 of 3, Lines 74 thru 78 (acct code specific)
COLUMN (BB)	WP:401, Page 1 of 1, Line 3 Column (B)
COLUMN (A)	Calculation

SOURCES
TRANSPORT (OC-3 FIBER INVESTMENTS) WP 250, PAGE 1 OF 3, LINES 16 THRU 24

COLUMN (AA)	WP:350, Page 3 of 3, Lines 128 thru 133 (acct code specific)
COLUMN (BB)	WP:401, Page 1 of 1, Line 1, Column (B)
COLUMN (A)	Calculation

SOURCES
TRANSPORT (OC-12 AND OC-3 FIBER INVESTMENTS) WP 250, PAGE 1 OF 3, LINES 26 THRU 31

COLUMN (A)	WP:250, Page 1 of 3, Sum of Lines 10 thru 24, Column (A) (acct code specific)
COLUMN (B)	WP:250, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (A) (acct code specific)
COLUMN (C)	WP:250, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (B) (acct code specific)
COLUMN (D)	WP:250, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (C) (acct code specific)
COLUMN (E)	WP:250, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (D) (acct code specific)
COLUMN (F)	WP:250, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (E) (acct code specific)
COLUMN (G)	WP:250, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (F) (acct code specific)
COLUMN (H)	WP:250, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, TIRKS expenses (acct code specific)
COLUMN (I)	WP:250, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (H) (acct code specific)
COLUMN (J)	WP:250, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (I) (acct code specific)
COLUMN (K)	WP:250, Page 1 of 3, Column (A) (acct code specific) multiplied by WP:FACTORS, Page 1 of 1, Lines 1 thru 13, Column (J) (acct code specific)
COLUMN (L)	Calculation

SOURCES
TOTALS

TOTAL FIRST HALF MILE - ELECTRONICS	WP:250, Page 1 of 3, Line 7 (Column (A) thru (L) (category specific)
TOTAL FIRST HALF MILE - TRANSPORT	WP:250, Page 1 of 3, Line 32 (Column (A) thru (L) (category specific)
TOTAL SECOND HALF MILE - TRANSPORT	WP:250, Page 1 of 3, Line 32 (Column (A) thru (L) (category specific)
TOTAL FLAT RATE - ELECTRONICS	WP:250, Page 1 of 3, Line 7 (Column (A) thru (L) (category specific)
TOTAL FLAT RATE - TRANSPORT	WP:250, Page 1 of 3, Line 32 (Column (A) thru (L) category specific multiplied by WP:450, Line 16
PROBABILITY OF OCCURENCE	WP:401, Page 1 of 1, Line 16
WEIGHTED FIRST HALF AIR MILE ELECTRONICS	WP:250, Page 2 of 3, Line 52 (Column (A) thru (L) (category specific) multiplied by WP:250, Page 2 of 3, Line 64
WEIGHTED FIRST HALF AIR MILE TRANSPORT	WP:250, Page 2 of 3, Line 53 (Column (A) thru (L) (category specific) multiplied by WP:250, Page 2 of 3, Line 64
WEIGHTED FLAT RATE ELECTRONICS	WP:250, Page 2 of 3, Line 57 (Column (A) thru (L) (category specific) multiplied by WP:250, Page 2 of 3, Line 64
WEIGHTED FLAT RATE AIR MILE TRANSPORT	WP:250, Page 2 of 3, Line 58 (Column (A) thru (L) (category specific) multiplied by WP:250, Page 2 of 3, Line 64

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LINE NO	DESCRIPTION	ACCT NO.	UTILIZED / LEVELIZED INVESTMENT	SOURCES
1	ELECTRONICS			
2	Battery Back-up - OC3 (CP)	257C		FUNDAMENTAL SONET MODEL
3	CO Node - OC3	257C		-
4	MCE & P	257C		-
5	Land	20C		-
6	Building	10C		-
7	CO Node - OC12	257C		-
8	MCE & P	257C		-
9	Land	20C		-
10	Building	10C		-
11	CP NODE - OC3	257C		-
12	CO INT. DS1 ON OC-3 DIRECT	257C		-
13	MCE & P	257C		-
14	Land	20C		-
15	Building	10C		-
16	CO INT. DS1 ON OC-3 JOINT	257C		-
17	MCE & P	257C		-
18	Land	20C		-
19	Building	10C		-
20	CP INT. DS1 ON OC-3 DIRECT	257C		-
21	CP INT. DS1 ON OC-3 JOINT	257C		-
22	CO DS1 ON OC-12 DIRECT	257C		-
23	MCE & P	257C		-
24	Land	20C		-
25	Building	10C		-
26	CO DS1 ON OC-12 JOINT	257C		-
27	MCE & P	257C		-
28	Land	20C		-
29	Building	10C		-
30	CO [, OC-3	257C		-
31	MCE & P	257C		-
32	Land	20C		-
33	Building	10C		-
34	CO ; OC-12	257C		-
35	MCE & P	257C		-
36	Land	20C		-
37	Building	10C		-
38	CP NETWORK INTERFACE	257C		-
39	HUB INTERFACE STS-1 OC3	257C		-
40	MCE & P	257C		-
41	Land	20C		-
42	Building	10C		-

NE NO	DESCRIPTION	ACCT NO.	UTILIZED / LEVELIZED INVESTMENT	SOURCES
13	HUB INTERFACE STS-1 OC12	257C		FUNDAMENTAL SONET MODEL
14	MCE & P	257C		-
15	Land	20C		-
16	Building	10C		-
17	CP BUILDING ENTRANCE CABLE OC3	812C		-
18	CP BUILDING ENTRANCE CABLE OC12	812C		-
19	CO INTERFACE DS1 ON OC3 (, DIRECT	257C		-
50	MCE & P	257C		-
51	Land	20C		-
52	Building	10C		-
53	CO INTERFACE DS1 ON OC3 JOINT	257C		-
54	MCE & P	257C		-
55	Land	20C		-
56	Building	10C		-
57	CO NODE OC3	257C		-
58	MCE & P	257C		-
59	Land	20C		-
60	Building	10C		-
61	CP INTERFACE DS1 ON OC3 ;) DIRECT	257C		-
62	CP INTERFACE DS1 ON OC3 JOINT	257C		-
63	CP NODE OC3	257C		-
64	HUB CONN STS-1 ON OC-3 DIRECT	257C		-
65	MCE & P	257C		-
66	Land	20C		-
67	Building	10C		-
68	HUB INTERFACE DS1 ON OC-3 DIRECT	257C		-
69	MCE & P	257C		-
70	Land	20C		-
71	Building	10C		-
72	HUB INTERFACE DS1 ON OC-3 JOINT	257C		-
73	MCE & P	257C		-
74	Land	20C		-
75	Building	10C		-
76	HUB INTERFACE DS1 ON OC-3 DIRECT(	257C		-
77	MCE & P	257C		-
78	Land	20C		-
79	Building	10C		-
80	HUB INTERFACE DS1 ON OC-3 JOINT(	257C		-
81	MCE & P	257C		-
82	Land	20C		-
83	Building	10C		-

DESCRIPTION	ACCT NO.	UTILIZED / LEVELIZED INVESTMENT	SOURCES
HUB NODE-OC3	257C		FUNDAMENTAL SONET MODEL
MCE & P	257C		-
Land	20C		-
Building	10C		-
HUB NODE-OC3	257C		-
MCE & P	257C		-
Land	20C		-
Building	10C		-
HUB NODE-OC12	257C		-
MCE & P	257C		-
Land	20C		-
Building	10C		-
TRANSPORT			
FIBER - OC3 PER MILE PER STRAND			-
POLE	1C		-
AERIAL FIBER	822C		-
BURIED FIBER	845C		-
CONDUIT	4C		-
UNDERGROUND FIBER	85C		
FIBER - OC12 PER MILE PER STRAND			-
POLE	1C		-
AERIAL FIBER	822C		-
BURIED FIBER	845C		-
CONDUIT	4C		-
UNDERGROUND FIBER	85C		

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VELOPMENT OF COPPER ELECTRONICS LEVELIZED, UTILIZED INVESTMENT

E	DESCRIPTION	ACCT	(A) MATERIAL PRICE PER T1	(B) IN PLANT FACTOR	(C)=(A)*(B) INSTALLED INV	(D) INFLATION FACTOR	(E)=(C)*(D) 96-96 LEVELIZED INV	(F) UTILIZATION	(G)=(E)(F) LEVELIZED UTIL INVESTMENT BEFORE LOADINGS	(H) MISC LOAD	(I)=(G)*(H) LEVELIZED UTIL INVESTMENT WITH LOADINGS
	CENTRAL OFFICE										
	OSX-1 PANEL	257C		1.2107	$	0.962	$	0.85			
		257C								0.0159	
		20C								0.0030	
		10C								0.0404	
	OFFICE REPEATER BAY	257C	$	1.2107	$	0.962	$	0.85			
		257C								0.0159	
		20C								0.0030	
0		10C								0.0404	
1											
2											
3											
4	MDF	377C									
5		377C									
6		377C									
7		377C									
8				1.3574	$	1.012	$	0.85			
9		377C								0.0962	
0		20C								0.0030	
1		10C								0.0404	
2											
3	**CUSTOMER PREMISES**										
4											
5	BLDG ENTRANCE CABLE	12C		---	$	1.061	$	0.70			
6											
7											
8											
9											
0											

SOURCES

COLUMN A	NETWORK
COLUMN B	ECONOMIC ANALYSIS
COLUMN C	CALCULATION (NOTE: BLDG ENTRANCE CABLE SOURCE WAS ECONOMIC ANALYSIS DEPT.)
COLUMN D	ECONOMIC ANALYSIS
COLUMN E	CALCULATION
COLUMN F	NETWORK
COLUMN G	CALCULATION
COLUMN H	ECONOMIC ANALYSIS
COLUMN I	CALCULATION (NOTE: 20C AND 10C LOADINGS WERE BASED ON TOTAL 257C PER CATEGORY)

FL8G01Q 00132

DEVELOPMENT OF COPPER TRANSPORT LEVELIZED, UTILIZED INVESTMENT

26 GAUGE COPPER CABLE	ACCT CODE	(A) INSTALLED INV PER PAIR PER FOOT	(B) = (A) * 2 2 PAIR PER FOOT	(C)= (B) * 2640 INV PER 1/2 MILE (2640 * (B))	(D) DIST TO CODE	(E) =(C)*(D) COPPER CABLE WEIGHTED INVESTMENT	(F) ADJ FOR AIR DRYER	(G)=(E)*FACTOR ADJ FOR DROP WIRE	(H)= (E)-(F)-(G) COPPER CABLE WEIGHTED INVESTMENT WITH ADJ	(I) POLE/CONDUIT FACTOR	(J)=(I)*(E) POLE/CONDUIT INVESTMENT
AERIAL	22C				0.152777		N/A				
BURIED	45C				0.633938		N/A				
UNDERGROUND	5C				0.213285		N/A				
POLE	1C				1					0.2522	
CONDUIT	4C									0.3895	

AIR DRYER
DROP WIRE ADJ.

REPEATER		(K) INV	(L) DIST TO CODE	(M)=(K)*(L) REPEATER WEIGHTED INVESTMENT
AERIAL	257C	$	0.152777	
BURIED	257C	$	0.633938	
UNDERGROUND	257C	$	0.213285	
	257C		1	

COPPER TRANSPORT LEVELIZED, UTILIZED INVESTMENT SUMMARY

	ACCT	(N) TOTAL INV PER DS1	(O) TPI	(P)=(N)*(O) TOTAL BASE YR INV PER DS1	(Q) INPLANT	(R)=(P)*(Q) INSTALLED INVESTMENT	(S) INFLATION FACTOR	(T)=(R)*(S) LEVELIZED INVESTMENT	(U) UTILIZATION FACTOR	(V)=(T)*(U) UTIL/LEV INVESTMENT PER DS1 & PER 1/2 MILE	
REPEATER	257C	$	1	$	1.2107	$	0.982	$	0.85	$	257C
AERIAL	22C		1		N/A		1.061		0.70		22C
BURIED	45C	$	1	$	N/A	$	1.058	$	0.70		45C
UNDERGROUND	5C		1		N/A		1.069		0.70		5C
POLE	1C		1		N/A		1.072		0.70		1C
CONDUIT	4C		1		N/A		1.044		0.70		4C

SOURCES

COLUMN A	ECONOMIC ANALYSIS - VRUCS	COLUMN I	ECONOMIC ANALYSIS - FACTORS	COLUMN Q	ECONOMIC ANALYSIS - FACTORS
COLUMN B	CALCULATION	COLUMN J	CALCULATION	COLUMN R	CALCULATION
COLUMN C	CALCULATION	COLUMN K	NETWORK	COLUMN S	ECONOMIC ANALYSIS - FACTORS
COLUMN D	ECONOMIC ANALYSIS - VRUCS	COLUMN L	ECONOMIC ANALYSIS - VRUCS	COLUMN T	CALCULATION
COLUMN E	CALCULATION	COLUMN M	CALCULATION	COLUMN U	NETWORK
COLUMN F	N/A	COLUMN N	COLUMNS (K), (H), and (J)	COLUMN V	CALCULATION
COLUMN G	CALCULATION	COLUMN O	ECONOMIC ANALYSIS - FACTORS		
COLUMN H	CALCULATION	COLUMN P	CALCULATION		

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UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1996-1998 LEVEL

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DESIGN #1
ELECTRONIC INVESTMENTS

LINE NO.		ACCT CODE	LEVELIZED UTILIZED INVESTMENT	SOURCES
	CENTRAL OFFICE - ELECTRONICS			
1	DSX1 PANEL	257C		WP:301, Page 1 of 1, Line 1
2	MCE&P	257C		WP:301, Page 1 of 1, Line 2
3	LAND	20C		WP:301, Page 1 of 1, Line 3
4	BUILDING	10C		WP:301, Page 1 of 1, Line 4
5				
6				
7	OFFICE REPEATER BAY	257C		WP:301, Page 1 of 1, Line 7
8	MCE&P	257C		WP:301, Page 1 of 1, Line 8
9	LAND	20C		WP:301, Page 1 of 1, Line 9
10	BUILDING	10C		WP:301, Page 1 of 1, Line 10
11				
12				
13	MAIN DISTRIBUTION FRAME	377C		WP:301, Page 1 of 1, Line 18
14	MCE&P	377C		WP:301, Page 1 of 1, Line 19
15	LAND	20C		WP:301, Page 1 of 1, Line 20
16	BUILDING	10C		WP:301, Page 1 of 1, Line 21
17				
18				
19	**CUSTOMER PREMISES - ELECTRONICS**			
20				
21				
22	BLDG ENTRANCE CABLE - COPPER	12C		WP:301, Page 1 of 1, Line 25
23				
24	NETWORK INTERFACE	257C		WP:300, Page 1 of 3, Line 38
25				
26				
27				
28				
29				
30				
31	**TOTAL ELECTRONIC INVESTMENT BY FRC**			
32		257C		SUM WP:310, Page 1 of 2, Lines 1,2,7,8,24
33		377C		SUM WP:310, Page 1 of 2, Lines 13,14
34		20C		SUM WP:310, Page 1 of 2, Lines 3,9,15
35		10C		SUM WP:310, Page 1 of 2, Lines 4,10,16
36		12C		SUM WP:310, Page 1 of 2, Line 22
37				
38	TOTAL DESIGN I ELECTRONIC INVESTMENT			SUM WP:310, Page 1 of 2, Line 32 thru 36

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UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1996-1998 LEVEL

STATE: FLORIDA
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DESIGN #1
TRANSPORT INVESTMENTS

CENTRAL OFFICE TO CUSTOMER PREMISES

	ACCT CODE	(A) TOTAL INVESTMENT PER 1/2 MILE (ROUTE MILES)	(B) ROUTE TO AIR RATIO	(C)=(A)*(B) TOTAL INVESTMENT PER 1/2 MILE (AIR MILES)	SOURCES COLUMN A	SOURCES COLUMN B
26 GAUGE						
AERIAL COPPER	22C		1.43			
POLE	1C		1.43		WP:302, Page 1 of 1, Line 34	WP:401, Page 1 of 1, Line 22
UNDERGROUND COPPER	5C		1.43		WP:302, Page 1 of 1, Line 37	"
CONDUIT	4C		1.43		WP:302, Page 1 of 1, Line 36	"
BURIED COPPER	45C		1.43		WP:302, Page 1 of 1, Line 38	"
REPEATER	257C		1.43		WP:302, Page 1 of 1, Line 35	"
					WP:302, Page 1 of 1, Line 32	"
TOTAL TRANSPORT BY FRC	22C				WP:310, Page 2 of 2, Line 56	
	1C				WP:310, Page 2 of 2, Line 57	
	5C				WP:310, Page 2 of 2, Line 58	
	4C				WP:310, Page 2 of 2, Line 59	
	45C				WP:310, Page 2 of 2, Line 60	
	257C				WP:310, Page 2 of 2, Line 61	
TOTAL DESIGN #1 TRANSPORT INVESTMENTS					SUM WP:310, Page 2 of 2, Line 67 thru 72	
1/2 MILE (AIR MILE)						

F18G01Q 00135

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1996-1998 LEVEL

DESIGN #2
ELECTRONIC INVESTMENTS

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	ACCT CODE	LEVELIZED UTILIZED INVESTMENT	SOURCES
CENTRAL OFFICE - ELECTRONICS			
DS1 ON OC3 - DIRECT	257C		WP:300, Page 1 of 3, Line 12
MCE&P	257C		WP:300, Page 1 of 3, Line 13
LAND	20C		WP:300, Page 1 of 3, Line 14
BUILDING	10C		WP:300, Page 1 of 3, Line 15
DS1 ON OC3 - JOINT	257C		WP:300, Page 1 of 3, Line 16
MCE&P	257C		WP:300, Page 1 of 3, Line 17
LAND	20C		WP:300, Page 1 of 3, Line 18
BUILDING	10C		WP:300, Page 1 of 3, Line 19
CO NODE - OC3	257C		WP:300, Page 1 of 3, Line 3
MCE&P	257C		WP:300, Page 1 of 3, Line 4
LAND	20C		WP:300, Page 1 of 3, Line 5
BUILDING	10C		WP:300, Page 1 of 3, Line 6
. - OC3	257C		WP:300, Page 1 of 3, Line 30
MCE&P	257C		WP:300, Page 1 of 3, Line 31
LAND	20C		WP:300, Page 1 of 3, Line 32
BUILDING	10C		WP:300, Page 1 of 3, Line 33
CUSTOMER PREMISES ELECTRONICS -			
CP NODE - OC3 (5 Nodes)	257C		WP:300, Page 1 of 3, Line 11 multiplied by 5
DS1 ON OC3 - DIRECT	257C		WP:300, Page 1 of 3, Line 20
DS1 ON OC3 - JOINT	257C		WP:300, Page 1 of 3, Line 21
BLDG ENTRANCE CABLE - OC3	812C		WP:300, Page 2 of 3, Line 47
NETWORK INTERFACE	257C		WP:300, Page 1 of 3, Line 36
BATTERY BACK-UP	257C		WP:300, Page 1 of 3, Line 2
TOTAL ELECTRONIC INVESTMENT BY FRC			
	257C		SUM WP:320, Page 1 of 2, Lines 1,2,6,7,11,12,16,17,23,25,27,31,33
	20C		SUM WP:320, Page 1 of 2, Lines 3,8,13,18
	10C		SUM WP:320, Page 1 of 2, Lines 7,9,14,19
	812C		SUM WP:320, Page 1 of 2, Line 29
TOTAL DESIGN 2 ELECTRONIC INVESTMENT		[	SUM WP:320, Page 1 of 2, Line 38 thru 42

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UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1996-1998 LEVEL

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DESIGN #2
TRANSPORT INVESTMENTS

CENTRAL OFFICE TO CUSTOMER PREMISES OC-3

	ACCT CODE	(A) INVESTMENT PER MILE PER STRAND (ROUTE MILES)	(B)= (A) / 2 INVESTMENT PER 1/2 MILE PER STRAND (ROUTE MILES)	SOURCES COLUMN (A)	SOURCES COLUMN (B)
AERIAL FIBER	822C			WP:300, Page 3 of 3, Line 100	Calculation
POLE	1C			WP:300, Page 3 of 3, Line 99	"
UNDERGROUND FIBER	85C			WP:300, Page 3 of 3, Line 103	"
CONDUIT	4C			WP:300, Page 3 of 3, Line 102	"
BURIED FIBER	845C			WP:300, Page 3 of 3, Line 101	"

	ACCT CODE	(C) INVESTMENT PER 1/2 MILE PER STRAND (ROUTE MILES)	(D) TOTAL NUMBER OF STRANDS PER ARRANGEMENT	(E)= (C) * (D) INVESTMENT PER 1/2 MILE PER ARRANGEMENT (ROUTE MILES)	(F) ROUTE TO AIR RATIO	(G) = (E) * (F) TOTAL INVESTMENT PER 1/2 MILE PER ARRANGEMENT (AIR MILES)	SOURCES	
TOTAL TRANSPORT - OC 3								
STANDARD ARRANGEMENT BY FRC	822C		3		1.43		COLUMN (C)	Calculation
	1C		3		1.43		COLUMN (D)	Network
	85C		3		1.43		COLUMN (E)	Calculation
	4C		3		1.43		COLUMN (F)	WP:401, Pg 1 of 1, Ln 22
	845C		3		1.43		COLUMN (G)	Calculation
TOTAL TRANSPORT - OC 3								
DIVERSITY ARRANGEMENT BY FRC	822C		3		1.43			
	1C		3		1.43			
	85C		3		1.43			
	4C		3		1.43			
	845C		3		1.43			

TOTAL TRANSPORT BY FRC (6 STRANDS)	822C	SUM WP:320, Page 2 of 2, Lines 79,87
	1C	SUM WP:320, Page 2 of 2, Lines 80,88
	85C	SUM WP:320, Page 2 of 2, Lines 81,89
	4C	SUM WP:320, Page 2 of 2, Lines 82,90
	845C	SUM WP:320, Page 2 of 2, Lines 83,91
TOTAL DESIGN #2 TRANSPORT INVESTMENTS		SUM WP:320, Page 2 of 2, Lines 95 thru 99
1/2 MILE (AIR MILE)		

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UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
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DESIGN #3
ELECTRONIC INVESTMENTS

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LINE NO		ACCT CODE	LEVELIZED UTILIZED INVESTMENT	SOURCES
	CENTRAL OFFICE - ELECTRONICS			
1	DS1 ON OC3 - DIRECT	257C		WP:300, Page 2 of 3, Line 49
2	MCE&P	257C		WP:300, Page 2 of 3, Line 50
3	LAND	20C		WP:300, Page 2 of 3, Line 51
4	BUILDING	10C		WP:300, Page 2 of 3, Line 52
5				
6	DS1 ON OC3 - JOINT	257C		WP:300, Page 2 of 3, Line 53
7	MCE&P	257C		WP:300, Page 2 of 3, Line 54
8	LAND	20C		WP:300, Page 2 of 3, Line 55
9	BUILDING	10C		WP:300, Page 2 of 3, Line 56
10				
11	CO NODE - OC3	257C		WP:300, Page 2 of 3, Line 57
12	MCE&P	257C		WP:300, Page 2 of 3, Line 58
13	LAND	20C		WP:300, Page 2 of 3, Line 59
14	BUILDING	10C		WP:300, Page 2 of 3, Line 60
15				
16	OC3	257C		WP:300, Page 1 of 3, Line 30
17	MCE&P	257C		WP:300, Page 1 of 3, Line 31
18	LAND	20C		WP:300, Page 1 of 3, Line 32
19	BUILDING	10C		WP:300, Page 1 of 3, Line 33
20				
21	**CUSTOMER PREMISES ELECTRONICS**			
22				
23	CP NODE - OC3 (5 Nodes)	257C		WP:300, Page 2 of 3, Line 63 multiplied by 6
24				
25	DS1 ON OC3 - DIRECT	257C		WP:300, Page 2 of 3, Line 61
26				
27	DS1 ON OC3 - JOINT	257C		WP:300, Page 2 of 3, Line 62
28				
29	BLDG ENTRANCE CABLE - OC12	812C		WP:300, Page 2 of 3, Line 48
30				
31	NETWORK INTERFACE	257C		WP:300, Page 1 of 3, Line 38
32				
33	BATTERY BACK-UP	257C		WP:300, Page 1 of 3, Line 2
34				
35				
36				
37	**TOTAL ELECTRONIC INVESTMENT BY FRC**			
38		257C		SUM WP:330, Page 1 of 2, Lines 1,2,6,7,11,12,16,17,23,25,27,31,33
39		20C		SUM WP:330, Page 1 of 2, Lines 3,8,13,18
40		10C		SUM WP:330, Page 1 of 2, Lines 7,9,14,19
41		812C		SUM WP:330, Page 1 of 2, Line 29
42				
43	TOTAL DESIGN 3 ELECTRONIC INVESTMENT			SUM WP:330, Page 1 of 2, Lines 37 thru 41
44				

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UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1996-1998 LEVEL

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DESIGN #3
TRANSPORT INVESTMENTS

CENTRAL OFFICE TO CUSTOMER PREMISES OC-3

	ACCT CODE	(A) INVESTMENT PER MILE PER STRAND (ROUTE MILES)	(B)= (A) / 2 INVESTMENT PER 1/2 MILE PER STRAND (ROUTE MILES)	SOURCES COLUMN (A)	SOURCES COLUMN (B)
AERIAL FIBER	822C			WP:300, Page 3 of 3, Line 106	Calculation
POLE	1C			WP:300, Page 3 of 3, Line 105	"
UNDERGROUND FIBER	85C			WP:300, Page 3 of 3, Line 109	"
CONDUIT	4C			WP:300, Page 3 of 3, Line 108	"
BURIED FIBER	845C			WP:300, Page 3 of 3, Line 107	"

	ACCT CODE	(C) INVESTMENT PER 1/2 MILE PER STRAND (ROUTE MILES)	(D) TOTAL NUMBER OF STRANDS PER ARRANGEMENT	(E)= (C) * (D) INVESTMENT PER 1/2 MILE PER ARRANGEMENT (ROUTE MILES)	(F) ROUTE TO AIR RATIO	(G) = (E) * (F) TOTAL INVESTMENT PER 1/2 MILE PER ARRANGEMENT (AIR MILES)	SOURCES	
TOTAL TRANSPORT - OC 3								
STANDARD ARRANGEMENT BY FRC	822C		3		1.43		COLUMN (C)	Calculation
	1C		3		1.43		COLUMN (D)	Network
	85C		3		1.43		COLUMN (E)	Calculation
	4C		3		1.43		COLUMN (F)	WP:401, Pg 1 of 1, Ln 22
	845C		3		1.43		COLUMN (G)	Calculation
TOTAL TRANSPORT - OC 3								
DIVERSITY ARRANGEMENT BY FRC	822C	$0.00	3		1.43			
	1C	$0.00	3		1.43			
	85C	$0.00	3		1.43			
	4C	$0.00	3		1.43			
	845C	$0.00	3		1.43			

TOTAL TRANSPORT BY FRC (6 STRANDS)	822C	SUM WP:330, Page 2 of 2, Lines 82,90
	1C	SUM WP:330, Page 2 of 2, Lines 83,91
	85C	SUM WP:330, Page 2 of 2, Lines 84,92
	4C	SUM WP:330, Page 2 of 2, Lines 85,93
	845C	SUM WP:330, Page 2 of 2, Lines 86,94
TOTAL DESIGN #3 TRANSPORT INVESTMENTS 1/2 MILE (AIR MILE)		SUM WP:330, Page 2 of 2, Lines 98 thru 103

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UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1996-1998 LEVEL

DESIGN #4
ELECTRONIC INVESTMENTS

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LINE NO		ACCT CODE	LEVELIZED UTILIZED INVESTMENT	SOURCES
	CENTRAL OFFICE - ELECTRONICS			
1				
2	*DS1 ON OC3 - DIRECT*	257C		WP:300, Pg 1 of 3, Ln 12
3	MCE&P	257C		WP:300, Pg 1 of 3, Ln 13
4	LAND	20C		WP:300, Pg 1 of 3, Ln 14
5	BUILDING	10C		WP:300, Pg 1 of 3, Ln 15
6				
7	DS1 ON OC3 - JOINT	257C		WP:300, Pg 1 of 3, Ln 16
8	MCE&P	257C		WP:300, Pg 1 of 3, Ln 17
9	*LAND*	20C		WP:300, Pg 1 of 3, Ln 18
10	BUILDING	10C		WP:300, Pg 1 of 3, Ln 19
11				
12	CO NODE - OC3	257C		WP:300, Pg 1 of 3, Ln 3
13	MCE&P	257C		WP:300, Pg 1 of 3, Ln 4
14	LAND	20C		WP:300, Pg 1 of 3, Ln 5
15	BUILDING	10C		WP:300, Pg 1 of 3, Ln 6
16				
17	- OC3	257C		WP:300, Pg 1 of 3, Ln 30
18	MCE&P	257C		WP:300, Pg 1 of 3, Ln 31
19	LAND	20C		WP:300, Pg 1 of 3, Ln 32
20	BUILDING	10C		WP:300, Pg 1 of 3, Ln 33
21				
22	**CUSTOMER PREMISES ELECTRONICS -**			
23				
24	BLDG ENTRANCE CABLE - COPPER	12C		WP:301, Pg 1 of 1, Ln 25
25				
26	NETWORK INTERFACE	257C		WP:300, Pg 1 of 3, Ln 38
27				
34				
35				
36				
37				
38				
39	**TOTAL ELECTRONIC INVESTMENT BY FRC**			
40		257C		SUM WP:340, Page 1 of 3, Lines 1,2,6,7,11,12,16,17,25
41		20C		SUM WP:340, Page 1 of 3, Lines 3,8,13,18
42		10C		SUM WP:340, Page 1 of 3, Lines 4,9,14,19
43		12C		SUM WP:340, Page 1 of 3, Line 23
44				
45	TOTAL DESIGN 4 ELECTRONIC INVESTMENT			SUM WP:340, Page 1 of 3, Line 38 thru 42

LINE NO		ACCT CODE	LEVELIZED UTILIZED INVESTMENT	SOURCES
	FIBER HUB - ELECTRONICS -			
1				
2	HUB NODE - OC3 (5 Nodes)	257C		WP:300, Pg 3 of 3, Ln 84 x 5
3	MCE&P	257C		WP:300, Pg 3 of 3, Ln 85 x 5
4	LAND	20C		WP:300, Pg 3 of 3, Ln 86 x 5
5	BUILDING	10C		WP:300, Pg 3 of 3, Ln 87 x 5
6				
7	DSX1 PANEL (2)	257C		WP:301, Pg 1 of 1, Ln 1 x 2
8	MCE&P	257C		WP:301, Pg 1 of 1, Ln 2 x 2
9	LAND	20C		WP:301, Pg 1 of 1, Ln 3 x 2
10	BUILDING	10C		WP:301, Pg 1 of 1, Ln 4 x 2
11				
12	OFFICE REPEATER BAY	257C		WP:301, Pg 1 of 1, Ln 7
13	MCE&P	257C		WP:301, Pg 1 of 1, Ln 8
14	LAND	20C		WP:301, Pg 1 of 1, Ln 9
15	BUILDING	10C		WP:301, Pg 1 of 1, Ln 10
16				
17	HUB INTERFACE - DS1 ON OC-3			
18	DIRECT	257C		WP:300, Pg 2 of 3, Ln 68
19	MCE&P	257C		WP:300, Pg 2 of 3, Ln 69
20	*LAND*	20C		WP:300, Pg 2 of 3, Ln 70
21	BUILDING	10C		WP:300, Pg 2 of 3, Ln 71
22				
23	HUB INTERFACE - DS1 ON OC-3			
24	DIRECT	257C		WP:300, Pg 2 of 3, Ln 72
25	MCE&P	257C		WP:300, Pg 2 of 3, Ln 73
26	LAND	20C		WP:300, Pg 2 of 3, Ln 74
27	*BUILDING*	10C		WP:300, Pg 2 of 3, Ln 75

FLBG010 00140

DESIGN #4
TRANSPORT INVESTMENTS

CENTRAL OFFICE TO FIBER HUB OC-3

	ACCT CODE	(A) INVESTMENT PER MILE PER STRAND (ROUTE MILES)	(B)= (A) / 2 INVESTMENT PER 1/2 MILE PER STRAND (ROUTE MILES)	SOURCES COLUMN (A)	SOURCES COLUMN (B)
AERIAL FIBER	822C			WP:300, Page 3 of 3, Line 100	Calculation
POLE	1C			WP:300, Page 3 of 3, Line 99	"
UNDERGROUND FIBER	85C			WP:300, Page 3 of 3, Line 103	"
CONDUIT	4C			WP:300, Page 3 of 3, Line 102	"
BURIED FIBER	845C			WP:300, Page 3 of 3, Line 101	"

	ACCT CODE	(C) INVESTMENT PER 1/2 MILE PER STRAND (ROUTE MILES)	(D) TOTAL NUMBER OF STRANDS PER ARRANGEMENT	(E)= (C) * (D) INVESTMENT PER 1/2 MILE PER ARRANGEMENT (ROUTE MILES)	(F) ROUTE TO AIR RATIO	(G) = (E) * (F) TOTAL INVESTMENT PER 1/2 MILE PER ARRANGEMENT (AIR MILES)	SOURCES
CO TO HUB							
STANDARD ARRANGEMENT BY FRC	822C		3		1.43		COLUMN (C) Calculation
	1C		3		1.43		COLUMN (D) Network
	85C		3		1.43		COLUMN (E) Calculation
	4C		3		1.43		COLUMN (F) WP:401, Pg 1 of 1, Ln 22
	845C		3		1.43		COLUMN (G) Calculation
CO TO HUB							
DIVERSITY ARRANGEMENT BY FRC	822C		3		1.43		
	1C		3		1.43		
	85C		3		1.43		
	4C		3		1.43		
	845C		3		1.43		

CO TO HUB TRANSPORT BY FRC (6 STRANDS)	822C	SUM WP:340, Page 2 of 3, Lines 82,90
	1C	SUM WP:340, Page 2 of 3, Lines 83,91
	85C	SUM WP:340, Page 2 of 3, Lines 84,92
	4C	SUM WP:340, Page 2 of 3, Lines 85,93
	845C	SUM WP:340, Page 2 of 3, Lines 86,94
CO TO HUB DESIGN #2 TRANSPORT INVESTMENTS 1/2 MILE (AIR MILE)		SUM WP:340, Page 2 of 3, Lines 98 thru 102

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DESIGN #4
TRANSPORT INVESTMENTS

FIBER HUB TO CUSTOMER PREMISES COPPER

	ACCT CODE	(A) INVESTMENT PER 1/2 MILE (ROUTE MILES)	(B) ROUTE TO AIR RATIO	(C)=(A)*(B) INVESTMENT PER 1/2 MILE (AIR MILES)	SOURCES COLUMN A	SOURCES COLUMN B
26 GAUGE						
AERIAL COPPER	22C		1.43		WP:302, Page 1 of 1, Line 34	WP:401, Page 1 of 1, Line 22
POLE	1C		1.43		WP:302, Page 1 of 1, Line 37	"
UNDERGROUND COPPER	5C		1.43		WP:302, Page 1 of 1, Line 36	"
CONDUIT	4C		1.43		WP:302, Page 1 of 1, Line 38	"
BURIED COPPER	45C		1.43		WP:302, Page 1 of 1, Line 35	"
REPEATER	257C		1.43		WP:302, Page 1 of 1, Line 32	"

HUB TO CP COPPER TRANSPORT BY FRC	22C	SUM WP:340, Page 3 of 3, Line 124
	1C	SUM WP:340, Page 3 of 3, Line 125
	5C	SUM WP:340, Page 3 of 3, Line 126
	4C	SUM WP:340, Page 3 of 3, Line 127
	45C	SUM WP:340, Page 3 of 3, Line 128
	257C	SUM WP:340, Page 3 of 3, Line 129
HUB TO CP DESIGN #4 COPPER TRANSPORT INVESTMENTS		SUM WP:340, Page 3 of 3, Line 142 thru 147
1/2 MILE (AIR MILE)		

F18G01Q 00142

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
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DESIGN #5
ELECTRONIC INVESTMENTS

LINE NO.		ACCT CODE	LEVELIZED UTILIZED INVESTMENT	SOURCES		ACCT CODE	LEVELIZED UTILIZED INVESTMENT	SOURCES
	CENTRAL OFFICE - ELECTRONICS -				**FIBER HUB - ELECTRONICS -**			
1	DS1 ON OC12 - DIRECT	257C		WP:300,Pg 1 of 3, Ln 22	HUB NODE - OC12	257C		WP:300,Pg 3 of 3, Ln 92
2	MCE&P	257C		WP:300,Pg 1 of 3, Ln 23	MCE&P	257C		WP:300,Pg 3 of 3, Ln 93
3	LAND	20C		WP:300,Pg 1 of 3, Ln 24	LAND	20C		WP:300,Pg 3 of 3, Ln 94
4	BUILDING	10C		WP:300,Pg 1 of 3, Ln 25	BUILDING	10C		WP:300,Pg 3 of 3, Ln 95
6	DS1 ON OC12 - JOINT	257C		WP:300,Pg 1 of 3, Ln 26	HUB INTERFACE STS-1 OC12	257C		WP:300,Pg 2 of 3, Ln 43
7	MCE&P	257C		WP:300,Pg 1 of 3, Ln 27	MCE&P	257C		WP:300,Pg 2 of 3, Ln 44
8	LAND	20C		WP:300,Pg 1 of 3, Ln 28	LAND	20C		WP:300,Pg 2 of 3, Ln 45
9	BUILDING	10C		WP:300,Pg 1 of 3, Ln 29	BUILDING	10C		WP:300,Pg 2 of 3, Ln 46
11	CO NODE - OC12	257C		WP:300,Pg 1 of 3, Ln 7	HUB INTERFACE STS-1 OC3	257C		WP:300,Pg 1 of 3, Ln 39
12	MCE&P	257C		WP:300,Pg 1 of 3, Ln 8	MCE&P	257C		WP:300,Pg 1 of 3, Ln 40
13	LAND	20C		WP:300,Pg 1 of 3, Ln 9	LAND	20C		WP:300,Pg 1 of 3, Ln 41
14	BUILDING	10C		WP:300,Pg 1 of 3, Ln 10	BUILDING	10C		WP:300,Pg 1 of 3, Ln 42
16	C - OC12	257C		WP:300,Pg 1 of 3, Ln 34	HUB NODE - OC3	257C		WP:300,Pg 3 of 3, Ln 84
17	MCE&P	257C		WP:300,Pg 1 of 3, Ln 35	MCE&P	257C		WP:300,Pg 3 of 3, Ln 85
18	LAND	20C		WP:300,Pg 1 of 3, Ln 36	LAND	20C		WP:300,Pg 3 of 3, Ln 86
19	BUILDING	10C		WP:300,Pg 1 of 3, Ln 37	BUILDING	10C		WP:300,Pg 3 of 3, Ln 87
20								
21	**CUSTOMER PREMISES ELECTRONICS -**							
23	CP NODE - OC3 (5 Nodes)	257C		WP:300,Pg 1 of 3, Ln 11 x 5				
25	DS1 ON OC3 - DIRECT	257C		WP:300,Pg 1 of 3, Ln 20				
27	DS1 ON OC3 - JOINT	257C		WP:300,Pg 1 of 3, Ln 21				
29	BLDG ENTRANCE CABLE - OC3	812C		WP:300,Pg 2 of 3, Ln 47				
31	NETWORK INTERFACE	257C		WP:300,Pg 1 of 3, Ln 38				
33	BATTERY BACK-UP	257C		WP:300,Pg 1 of 3, Ln 2				
37								
38	**TOTAL ELECTRONIC INVESTMENT BY FRC**							
39		257C		SUM WP:350, Page 1 of 3, Lines 1,2,6,7,11,12,16,17,23,25,31,33				
40		20C		SUM WP:350, Page 1 of 3, Lines 3,8,13,18				
41		10C		SUM WP:350, Page 1 of 3, Lines 4,9,14,19				
42		812C		SUM WP:350, Page 1 of 3, Line 29				
43								
44	TOTAL ELECTRONIC DESIGN 5 INVESTMENT			SUM WP:350, Page 1 of 3, Lines 38 thru 42				

FL8G010 00143

DESIGN #5
TRANSPORT INVESTMENTS

CENTRAL OFFICE TO FIBER HUB OC-12

		ACCT CODE	(A) INVESTMENT PER MILE PER STRAND (ROUTE MILES)	(B)= (A) / 2 INVESTMENT PER 1/2 MILE PER STRAND (ROUTE MILES)	SOURCES COLUMN (A)	SOURCES COLUMN (B)
					WP:300, Page 3 of 3, Line 106	Calculation
45	AERIAL FIBER	822C			WP:300, Page 3 of 3, Line 105	"
46	POLE	1C			WP:300, Page 3 of 3, Line 109	"
47	UNDERGROUND FIBER	85C			WP:300, Page 3 of 3, Line 108	"
48	CONDUIT	4C			WP:300, Page 3 of 3, Line 107	"
49	BURIED FIBER	845C				
50						
51						
52						
53						
54						

		ACCT CODE	(C) INVESTMENT PER 1/2 MILE PER STRAND (ROUTE MILES)	(D) TOTAL NUMBER OF STRANDS PER ARRANGEMENT	(E)= (C) * (D) INVESTMENT PER 1/2 MILE PER ARRANGEMENT (ROUTE MILES)	(F) ROUTE TO AIR RATIO	(G) = (E) * (F) TOTAL INVESTMENT PER 1/2 MILE PER ARRANGEMENT (AIR MILES)	SOURCES	
55									
56									
57									
58									
59									
60									
61	**CO TO HUB**								
62	**STANDARD ARRANGEMENT BY FRC**	822C		3		1.43		COLUMN (C)	Calculation
63		1C		3		1.43		COLUMN (D)	Network
64		85C		3		1.43		COLUMN (E)	Calculation
65		4C		3		1.43		COLUMN (F)	WP 401, Pg 1 of 1, Ln 22
66		845C		3		1.43		COLUMN (G)	Calculation
67									
68									
69	**CO TO HUB**								
70	**DIVERSITY ARRANGEMENT BY FRC**	822C		3		1.43			
71		1C		3		1.43			
72		85C		3		1.43			
73		4C		3		1.43			
74		845C		3		1.43			
75									
76									
77									
78	**CO TO HUB TRANSPORT BY FRC (6 STRANDS)**	822C						SUM WP:350, Page 2 of 3, Lines 58,66	
79		1C						SUM WP:350, Page 2 of 3, Lines 59,67	
80		85C						SUM WP:350, Page 2 of 3, Lines 60,68	
81		4C						SUM WP:350, Page 2 of 3, Lines 61,69	
82		845C						SUM WP:350, Page 2 of 3, Lines 62,70	
83									
84	**CO TO HUB DESIGN #5 TRANSPORT INVESTMENTS**							SUM WP:350, Page 2 of 3, Lines 98 thru 102	
85	**1/2 MILE (AIR MILE)**								

FL96010 00144

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
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DESIGN #5
TRANSPORT INVESTMENTS

FIBER HUB TO CUSTOMER PREMISES OC-3

	ACCT CODE	(A) INVESTMENT PER MILE PER STRAND (ROUTE MILES)	(B)= (A) / 2 INVESTMENT PER 1/2 MILE PER STRAND (ROUTE MILES)	SOURCES COLUMN (A)	SOURCES COLUMN (B)
AERIAL FIBER	822C			WP:300, Page 3 of 3, Line 100	Calculation
POLE	1C			WP:300, Page 3 of 3, Line 99	"
UNDERGROUND FIBER	85C			WP:300, Page 3 of 3, Line 103	"
CONDUIT	4C			WP:300, Page 3 of 3, Line 102	"
BURIED FIBER	845C			WP:300, Page 3 of 3, Line 101	"

	ACCT CODE	(C) INVESTMENT PER 1/2 MILE PER STRAND (ROUTE MILES)	(D) TOTAL NUMBER OF STRANDS PER ARRANGEMENT	(E)= (C) * (D) INVESTMENT PER 1/2 MILE PER ARRANGEMENT (ROUTE MILES)	(F) ROUTE TO AIR RATIO	(G) = (E) * (F) TOTAL INVESTMENT PER 1/2 MILE PER ARRANGEMENT (AIR MILES)	SOURCES
HUB TO CP							
STANDARD ARRANGEMENT BY FRC	822C		3		1.43		COLUMN (C) Calculation
	1C		3		1.43		COLUMN (D) Network
	85C		3		1.43		COLUMN (E) Calculation
	4C		3		1.43		COLUMN (F) WP:401, Pg 1 of 1, Ln 22
	845C		3		1.43		COLUMN (G) Calculation
HUB TO CP							
DIVERSITY ARRANGEMENT BY FRC	822C		3		1.43		
	1C		3		1.43		
	85C		3		1.43		
	4C		3		1.43		
	845C		3		1.43		
HUB TO CP TRANSPORT BY FRC (6 STRANDS)	822C						SUM WP:350, Page 3 of 3, Lines 113,121
	1C						SUM WP:350, Page 3 of 3, Lines 114,122
	85C						SUM WP:350, Page 3 of 3, Lines 115,123
	4C						SUM WP:350, Page 3 of 3, Lines 116,124
	845C						SUM WP:350, Page 3 of 3, Lines 117,125
HUB TO CP DESIGN #5 TRANSPORT INVESTMENTS 1/2 MILE (AIR MILE)							SUM WP:350, Page 3 of 3, Lines 98 thru 102

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LINE NO.	DESCRIPTION	SOURCES	(A) LENGTHS	(B)=(A)/LINE 2 % to total
1	HUB TO CP LOOP LENGTH (feet)	NETWORK		38.83%
2	STATE AVG LOOP LENGTH (feet)	ECONOMIC ANALYSIS		
3	CO TO HUB (feet)	LINE 2 - LINE1		61.17%
4				100.00%
5				
6				
7				
8			(A)	
9				
10				
11	PROBABILITY OF OCCURRENCE			
12	DESIGN #1	BBS NETWORK		
13	DESIGN #2	•		
14	DESIGN #3	•		
15	DESIGN #4	•		
16	DESIGN #5	•		
17		CALCULATION		
18				
19				
20				
21				
22	ROUTE-TO-AIR RATIO	ECONOMIC ANALYSIS	1.43	
23				
24				
25				
26				
27				
28				
29				

F18G01Q 00146

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1996-1998 LEVEL

DESIGN #1
LOOP LENGTH SUMMARY

LINE NO		(A) (ROUTE MILES) FEET	(B)=(A)/2640 (ROUTE MILES) HALF MILES	(C) ROUTE-TO AIR RATIO	(D)=(B)/(C) (AIR MILES) HALF MILES
1	STATE AVG LOOP LENGTH				
2					
3					
4	DESIGN 1				
5	CO TO CP LOOP LENGTH		5	1.43	4

DESIGN 1

DESIGN 1 STATE AVG. AIR 1/2 MILES 4

SOURCES

COLUMN (A)	WP:401, Page 1 of 1, Line 2
COLUMN (B)	Calculation
COLUMN (C)	WP:401, Page 1 of 1, Line 22
COLUMN (D)	Calculation

FL8G01O 00147

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1996-1998 LEVEL

DESIGN #2
LOOP LENGTH SUMMARY

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LINE NO.		(A) (ROUTE MILES) FEET	(B)=(A)/2640 (ROUTE MILES) HALF MILES	(C) ROUTE-TO AIR RATIO	(D)=(B)(C) (AIR MILES) HALF MILES
1	STATE AVG LOOP LENGTH				
2					
3	DESIGN 2				
4	CO TO CP LOOP LENGTH				
5	(CIRCUMFERENCE OF STATE AVG)		14	1.43	10
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					

DESIGN 2 STATE AVG. AIR 1/2 MILES	**10**

SOURCES

COLUMN (A)
LINE 1 WP:401, Page 1 of 1, Line 2
LINE 5 WP:401, Page 1 of 1, Line 2 multiplied by 3.14
COLUMN (B) Calculation
COLUMN (C) WP:401, Page 1 of 1, Line 22
COLUMN (D) Calculation

F18G01Q 00148

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
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DESIGN #3
LOOP LENGTH SUMMARY

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LINE NO.		(A) (ROUTE MILES) FEET	(B)=(A)/2640 (ROUTE MILES) HALF MILES	(C) ROUTE-TO AIR RATIO	(D)=(B)/(C) (AIR MILES) HALF MILES
1	STATE AVG LOOP LENGTH				
2					
3	DESIGN 3				
4	CO TO CP LOOP LENGTH				
5	(CIRCUMFERENCE OF STATE AVG)		14	1.43	10
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					

DESIGN 3

DESIGN 3 STATE AVG. AIR 1/2 MILES **10**

SOURCES

COLUMN (A)
- LINE 1 WP.401, Page 1 of 1, Line 2
- LINE 6 WP.401, Page 1 of 1, Line 2 multiplied by 3.14

COLUMN (B) Calculation
COLUMN (C) WP.401, Page 1 of 1, Line 22
COLUMN (D) Calculation

F18G010 00119

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
1996-1998 LEVEL

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DESIGN #4
LOOP LENGTH SUMMARY

LINE NO		(AA)	(A) (ROUTE MILES) FEET	(B)=(A)/2640 (ROUTE MILES) HALF MILES	(C) ROUTE-TO AIR RATIO	(D)=(B)(C) (AIR MILES) HALF MILES
1	STATE AVG LOOP LENGTH					
2						
3	CO TO HUB WEIGHT	61.17%				
4	DESIGN 4					
5	(CIRCUMFERENCE OF STATE AVG)					
6				9	1.43	7
7						
8	HUB TO CP WEIGHT	38.83%				
9	DESIGN 4					
10	HUB TO CP LOOP LENGTH					
11	(POINT TO POINT)			2	1.43	2
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						

DESIGN 4

DESIGN 4 STATE AVG. AIR 1/2 MILES **9**

SOURCES

COLUMN (AA)
- Line 3 WP:401, Page 1 of 1, Column (B), Line 3
- Line 8 WP:401, Page 1 of 1, Column (B), Line 1

COLUMN (A) X 3.19
- Line 1 WP:401, Page 1 of 1, Column (A), Line 2
- Line 6 WP:440, Page 1 of 1, Column (A), Line 1 multiplied by WP:440, Page 1 of 1, Column (AA) Line 3
- Line 11 WP:401, Page 1 of 1, Column (A), Line 1

COLUMN (B) Calculation

COLUMN (C) WP:401, Page 1 of 1, Line 22

COLUMN (D) Calculation

FL8G010 00150

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP
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LINE NO		(AA)	(A) (ROUTE MILES) FEET	(B)=(A)/1640 (ROUTE MILES) HALF MILES	(C) ROUTE-TO AIR RATIO	(D)=(B)X(C) (AIR MILES) HALF MILES
1	STATE AVG LOOP LENGTH					
2						
3	CO TO HUB WEIGHT	61.17%				
4	DESIGN 2					
5	CO TO HUB LOOP LENGTH					
6	(POINT TO POINT)			3	1.43	3
7						
8	HUB TO CP WEIGHT	38.83%				
9	DESIGN 2					
10	HUB TO CP LOOP LENGTH					
11	(CIRCUMFERENCE OF STATE AVG)			6	1.43	5
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

DESIGN 5

DESIGN 5 STATE AVG. AIR 1/2 MILES **8**

SOURCES

COLUMN (AA)
- Line 3 WP:401, Page 1 of 1, Column (B), Line 3
- Line 8 WP:401, Page 1 of 1, Column (B), Line 1

COLUMN (A)
- Line 1 WP:401, Page 1 of 1, Column (A), Line 2
- Line 6 WP:450, Page 1 of 1, Column (A), Line 1 multiplied by WP:450, Page 1 of 1, Column (AA) Line 3
- Line 11 WP:401, Page 1 of 1, Column (A), Line 1 X 3 1/4

COLUMN (B) Calculation
COLUMN (C) WP:401, Page 1 of 1, Line 22
COLUMN (D) Calculation

FLBG010 00151

SECTION 5

SECTION 5

FLORIDA UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP

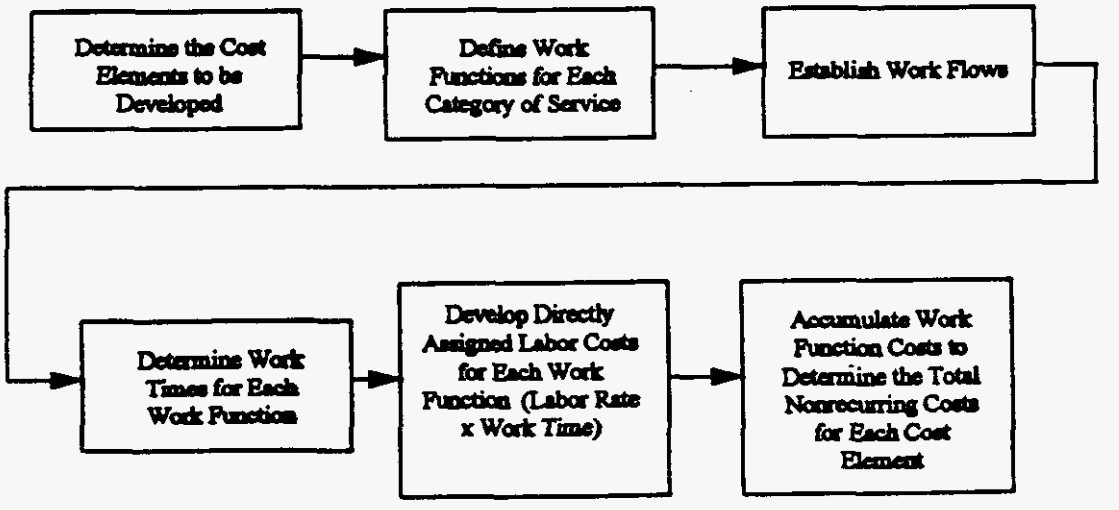
COST DEVELOPMENT - NONRECURRING

Nonrecurring costs are one-time costs incurred as a result of provisioning, installing, disconnecting and completion of orders initiated by a customer request for the Unbundled 4-Wire DS1 Digital Grade Loop. The Nonrecurring Cost Study is performed to determine the service order, provisioning and disconnect costs associated with the cost elements listed below. Calculations for the nonrecurring costs are included in this section.

Figure 7-1 shows a generalized flow of the steps necessary for developing nonrecurring costs. Each part of this flow will be explained in more detail in this section.

Figure 7-1

Generalized Flow Diagram for Developing Nonrecurring Costs



The first step in developing nonrecurring costs is to determine the cost elements to be studied. Each cost element is then described by all of the individual work functions required to provision the element. An example of a work function is the designing of a circuit in the Circuit Provisioning Group.

The work functions required to provide the Unbundled 4-Wire DS1 Digital Grade Loop can be grouped into four categories. These are:

1) Service Order
2) Engineering
3) Connect and Test
4) Technician Travel Time

Work functions included in these categories range from clerical activities to installation activities.

The next step in developing nonrecurring costs requires that Company subject matter experts identify the work functions involved in the provisioning of the Unbundled 4-Wire DS1 Digital Grade Loop (an example of a work function is making a cross-connect in the central office). These work functions are then used to describe the flow of work within the various work centers involved in provisioning the element.

The next step in the development of nonrecurring costs is to determine work times for each work function associated with the nonrecurring costs of the Unbundled 4-Wire DS1 Digital Grade Loop. The work times of the various work groups are determined from Subject Matter Expert inputs. Each work time estimate is made by a subject matter expert who thoroughly understands how each activity is done.

A spreadsheet model is used to incorporate the specific work functions and labor rates. In order to arrive at the nonrecurring cost for the element studied, the work times for each work function required is multiplied by the appropriate labor rate. The labor inflation factors (LIF) are used to bring the labor rate to the study period. The levelized labor rate is expressed on a per minute basis on workpaper 750, as are the worktimes. The labor rates and the labor inflation factors are shown in Section 7. Next, the individual work function costs are accumulated into the total cost for the cost element studied.

To recognize cost reductions on orders with loops, costs are calculated separately for the first and additional loop. "First" refers to the first item on a service order. "Additional" costs are the incremental costs of providing one or more duplicates of the item on the same service order at the same time as the first.

The basic process by which nonrecurring costs are calculated consists of combining unit work times with hourly costs of each specific service category. These labor times, and service order related work times, are multiplied by the directly assigned labor rates for the work groups performing the activities. Disconnect costs are calculated in the same manner, utilizing work functions, work times, and labor rates. However, a disconnect factor associated with the projected location life of the service is applied to the disconnect cost. The disconnect factor inflates the labor cost to the period of the future disconnect, discounts these

labor cost to the period of the future disconnect, discounts these costs to the present (since the money is received up-front) and adjusts for the income tax effect due to the difference in time between the receipt of money and the disconnect expense. The disconnect cost is added to the installation cost to develop the total nonrecurring cost.

The following workpapers reflect the cost development.

SUMMARY OF NONRECURRING COSTS

STATE: FLORIDA
WORKPAPER: 700
PAGE: 1 OF 1
DATE: May-96

4 WIRE DS1 DIGITAL GRADE LOOP

(1996-1998 Level Incremental Costs at 13.2% Cost of Money)

	DESCRIPTION	SOURCE	FIRST	ADDTL
1				
2				
3	Service Order	WP750 Col G LN7 thru LN21		
4				
5	Engineering	WP750 Col G LN26 thru LN30		
6				
7	Connect & Test	WP750 Col G LN30 thru LN37		
8				
9	Technician Travel Time	LN40		
10				
11				
12	Total Nonrecurring Cost	Sum of L3, L5, L7, L9		
13				
14				
15				
16				
17				
18				
19				
20				

DEVELOPMENT OF NONRECURRING COSTS
4 WIRE DS1 DIGITAL GRADE LOOP

STATE: FLORIDA
WORKPAPER: 750
PAGE: 1 OF 1
DATE: May-96

LEVEL 1996 - 1998 DIRECTLY ASSIGNED

	(A)		(B)		(C)	(D)		(E)		(F)		(G)	
	INSTALL WORKTIMES (MINS)		DISCONNECT WORKTIMES (MINS)		LEVELIZED LABOR	INSTALL COST (A*C)		DISCONNECT COST (B*C)		DISCOUNTED DISCONNECT COST (E*DDF)		(D+F)*(1+GRT)	
DESCRIPTION	FIRST	ADDTL	FIRST	ADDTL	RATE	FIRST	ADDTL	FIRST	ADDTL	FIRST	ADDTL	TOTAL FIRST	TOTAL ADDTL
SERVICE ORDER													
ICSC					$0.6800								
ISC TEAM MEMBER					$0.7011								
ISC CLERICAL SUPPORT					$0.5244								
CPG					$0.6109								
PICS					$0.7427								
NETWORK ADMIN					$0.5839								
NTEL					$0.6940								
SSDAC					$0.5986								
ENGINEERING													
FACS					$0.5553								
CPG					$0.6109								
OSPE					$0.8070								
CONNECT & TEST													
NETWORK ADMIN					$0.5839								
NTEL					$0.6940								
SSIM					$0.7359								
TRAVEL													
SSIM					$0.7359								
TOTAL NONRECURRING COST													

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SECTION 6

SECTION 6

FLORIDA UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP

SPECIFIC STUDY ASSUMPTIONS

The cost study for the Unbundled 4-Wire DS1 Digital Grade Loop for the state of Florida is based on incremental economic theory and assumptions, plus specific Network deployment strategies, first choice provisioning guidelines, and equipment purchasing information.

Cost study assumptions are as follows.

1. The cost of money is 13.2%, the forward-looking incremental cost to the firm.

2. The 4-Wire DS1 Digital Grade Loop is deployed just like MegaLink® Service; it is deployed on the same network architecture designs as MegaLink® Service and the same provisioning guidelines are used for both. Also, customer distribution is assumed to be similar, so MegaLink® Service loop lengths are used to determine the flat rate cost.

3. Five network architectures will be used to deploy DS1 local channels. The designs are based on Network Strategic Planning's Deployment Guidelines. These designs are found on the following pages of this section.

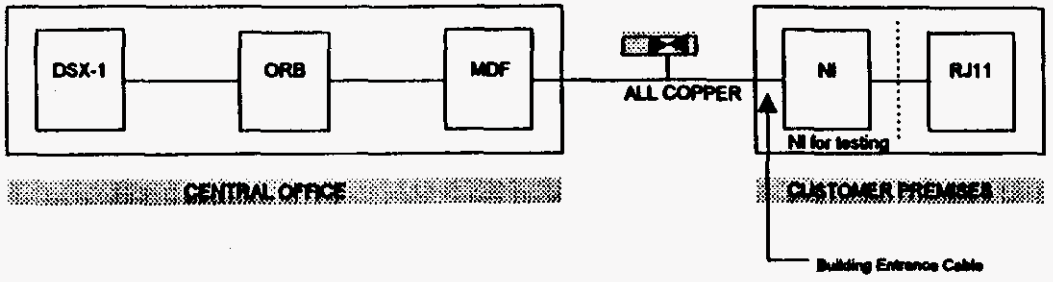
4. The probabilities of occurrence for the designs are based on estimates by BellSouth Network Subject Matter Experts. They are as following:

   Design #1 Probability of Occurrence -
   Design #2 Probability of Occurrence -
   Design #3 Probability of Occurrence -
   Design #4 Probability of Occurrence -
   Design #5 Probability of Occurrence -

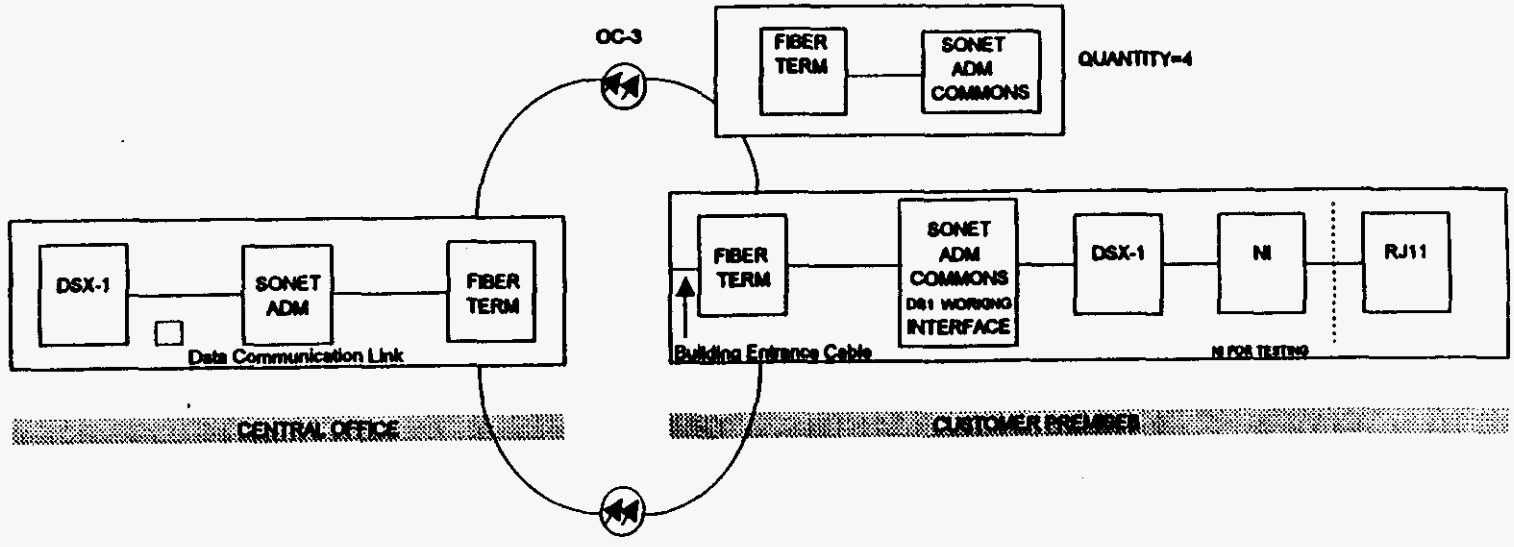
5. The SONET Fundamental Investment Model provided the equipment investments.

UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP

Design # 1

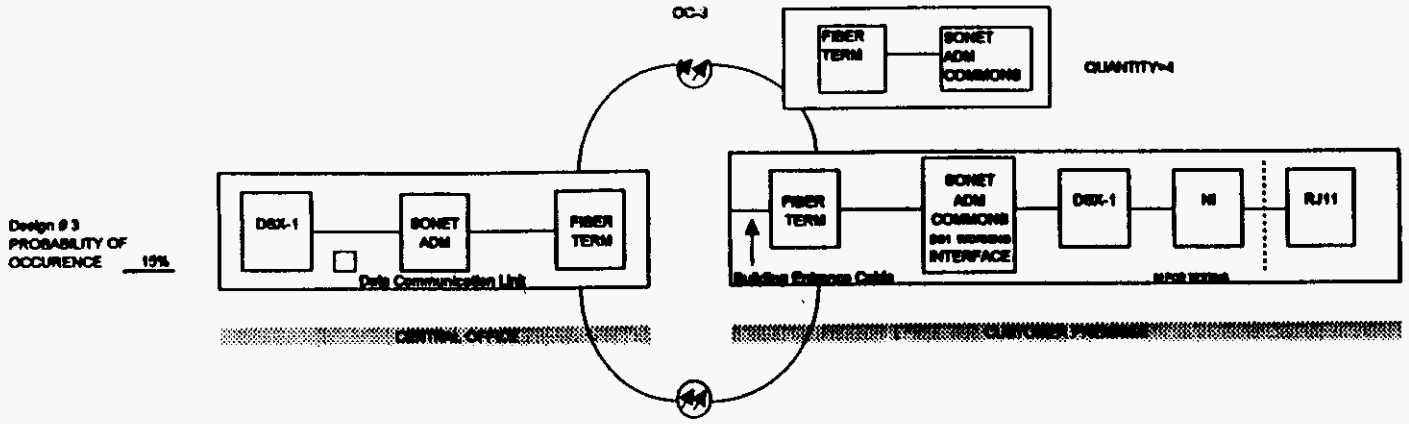


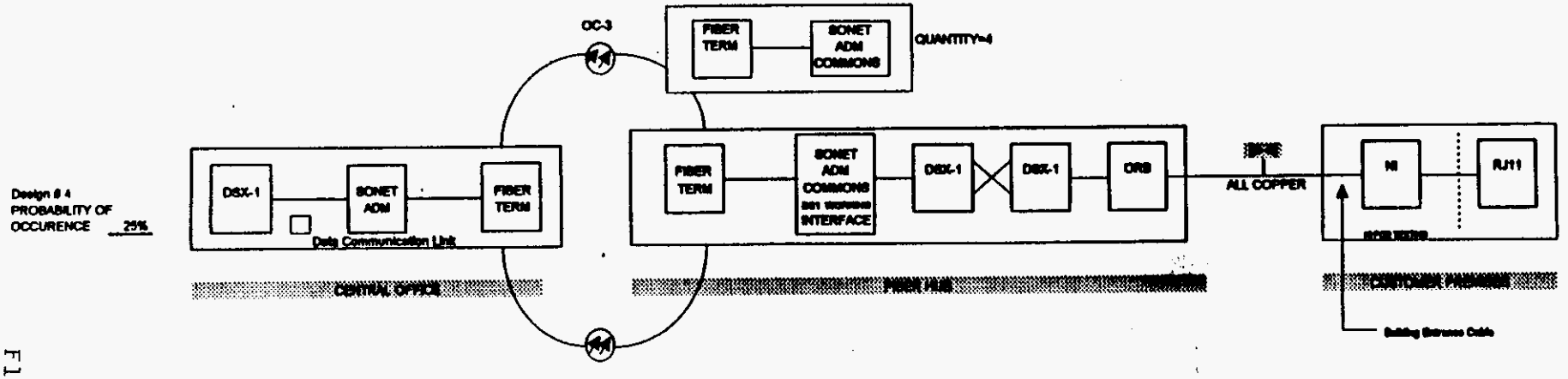
Design # 2



F18G010 00160

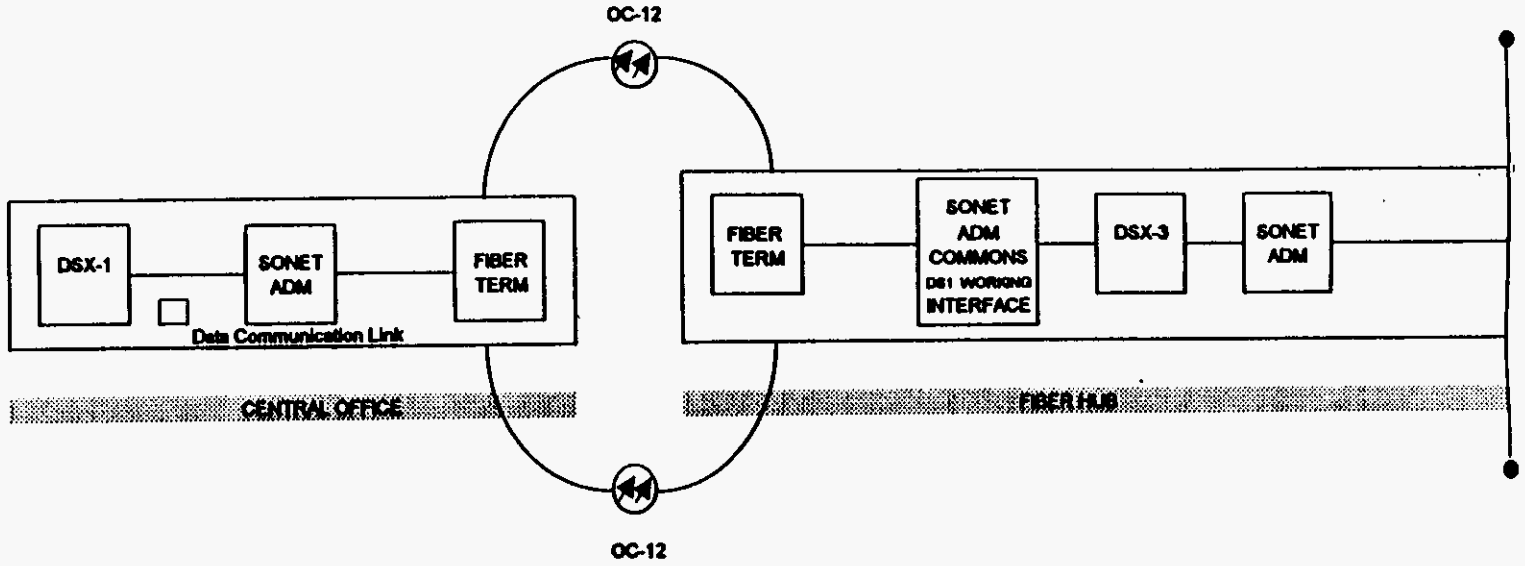
2

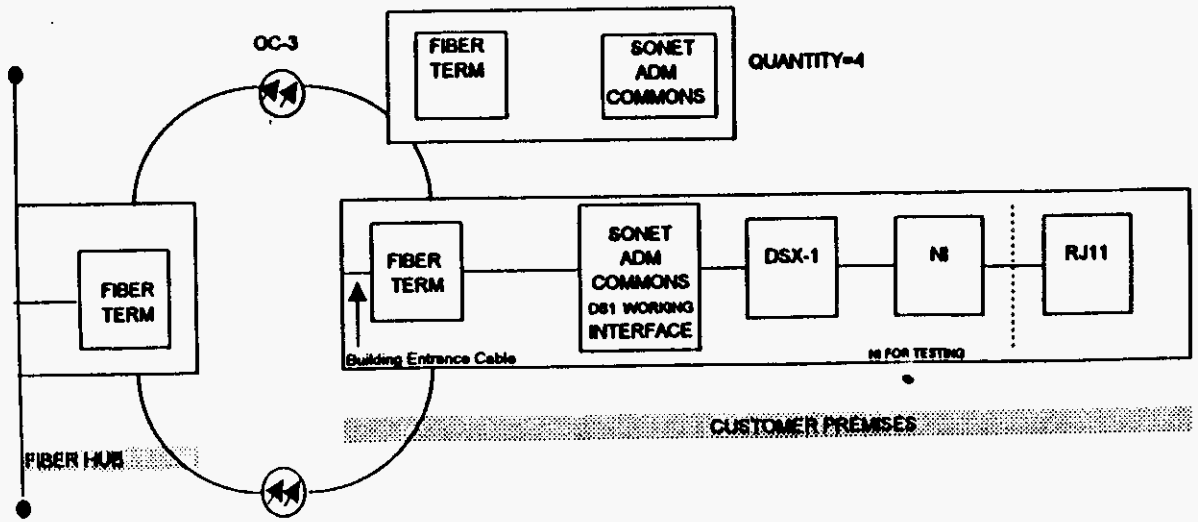




UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP

Design # 5





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SECTION 7

SECTION 7

FLORIDA UNBUNDLED 4-WIRE DS1 DIGITAL GRADE LOOP

FACTORS AND LOADINGS

Following are the incremental annual cost factors and labor rates used in the Unbundled 4-Wire DS1 Digital Grade Loop cost study for Florida.

Florida Unbundled 4-Wire DS1 Digital Grade Loop

Factors and Loadings

Distribution to Code	22C	0.152777
	45C	0.633938
	5C	0.213285
Route to Air Ratio		1.43
In Plant Factor	257C	1.2107
Levelization Factor	257C	0.962
Gross Receipts Tax Factor		0.0152
Discounted Disconnect Factor		0.854007

Annual Cost Factors:

Digital Circuit	257C	
Depreciation		0.1134
Cost of Money		0.0636
Income Tax		0.0288
Maintenance		0.0089
Ad Valorem Tax		0.0113
TIRKS Expense		0.0052
Gross Receipts Tax		0.0035
Dig Elec Switch	377C	
Depreciation		0.1134
Cost of Money		0.0651
Income Tax		0.0302
Maintenance		0.0282
Ad Valorem Tax		0.0113
TIRKS Expense		0.0000
Gross Receipts Tax		0.0038
Aerial Cable - Metal	12C, 22C	
Depreciation		0.0917
Cost of Money		0.0797
Income Tax		0.0338
Maintenance		0.0571
Ad Valorem Tax		0.0113
TIRKS Expense		0.0000
Gross Receipts Tax		0.0042

Florida Unbundled 4-Wire DS1 Digital Grade Loop

Factors and Loadings

Underground Cable - Metal 5C	
Depreciation	0.1036
Cost of Money	0.0813
Income Tax	0.0342
Maintenance	0.0291
Ad Valorem Tax	0.0113
TIRKS Expense	0.0000
Gross Receipts Tax	0.0039
Buried Cable - Metal 45C	
Depreciation	0.0876
Cost of Money	0.0809
Income Tax	0.0354
Maintenance	0.0543
Ad Valorem Tax	0.0113
TIRKS Expense	0.0000
Gross Receipts Tax	0.0041
Aerial Cable - Fiber 812C, 822C	
Depreciation	0.0667
Cost of Money	0.0784
Income Tax	0.0347
Maintenance	0.0139
Ad Valorem Tax	0.0113
TIRKS Expense	0.0000
Gross Receipts Tax	0.0031
Underground Cable - Fiber 85C	
Depreciation	0.0626
Cost of Money	0.0800
Income Tax	0.0358
Maintenance	0.0135
Ad Valorem Tax	0.0113
TIRKS Expense	0.0000
Gross Receipts Tax	0.0031
Buried Cable - Fiber 845C	
Depreciation	0.0585
Cost of Money	0.0816
Income Tax	0.0367
Maintenance	0.0144
Ad Valorem Tax	0.0113
TIRKS Expense	0.0000
Gross Receipts Tax	0.0031

Florida Unbundled 4-Wire DS1 Digital Grade Loop

Factors and Loadings

Poles	**1C**	
Depreciation		0.0671
Cost of Money		0.0725
Income Tax		0.0325
Maintenance		0.0279
Ad Valorem Tax		0.0113
TIRKS Expense		0.0000
Gross Receipts Tax		0.0032
Conduit	**4C**	
Depreciation		0.0242
Cost of Money		0.0877
Income Tax		0.0401
Maintenance		0.0028
Ad Valorem Tax		0.0113
TIRKS Expense		0.0000
Gross Receipts Tax		0.0025
Land	**20C**	
Depreciation		0.0000
Cost of Money		0.1118
Income Tax		0.0514
Maintenance		0.0000
Ad Valorem Tax		0.0113
TIRKS Expense		0.0000
Gross Receipts Tax		0.0027
Building	**10C**	
Depreciation		0.0302
Cost of Money		0.0986
Income Tax		0.0452
Maintenance		0.0069
Ad Valorem Tax		0.0113
TIRKS Expense		0.0000
Gross Receipts Tax		0.0029

1995 Directly Assigned Hourly Labor Rates

Customer Point of Contact (ICSC)	$38.30
ISC Team Member	$39.49
ISC Clerical Support	$29.54
CO Install & Maintenance (NTEL)	$39.09
Circuit Provisioning Center	$34.41
Network Planning & Eng (PICS)	$41.65
Spec Srvcs Disp & Admin Ctr (SSDAC)	$33.72
Network Admin	$32.89
Facilties Assignment (FACS)	$31.28
Outside Plant Engineering (OSPE)	$45.26
Install & Mtce - Spec Svcs (SSIM)	$41.45

Florida Unbundled 4-Wire DS1 Digital Grade Loop

Factors and Loadings

Labor Inflation

Telco Eng	
Year 1	3.4%
Year 2	3.8%
Year 3	3.6%
Telco COE	
Year 1	3.2%
Year 2	3.5%
Year 3	3.4%

FLORIDA

UNBUNDLED LOOPS

- 2-WIRE ANALOG VOICE GRADE LOOP
- 4-WIRE ANALOG VOICE GRADE LOOP
- 2-WIRE ISDN DIGITAL GRADE LOOP

COST STUDY DOCUMENTATION

SECTIONS A THRU 7

FLORIDA

UNBUNDLED LOOPS

COST STUDY DOCUMENTATION

CONTENTS

SECTION A

SECTION A

FLORIDA UNBUNDLED LOOPS

PROPRIETARY RATIONALE

The Florida Unbundled Loop Cost Study for 2-Wire and 4-Wire Analog Voice Grade Loops and 2-Wire ISDN Digital Grad Loop contains actual unit cost information for discrete cost elements. These costs reflect BellSouth's long run incremental cost of providing this element on a going forward basis. Public disclosure of this information would provide BellSouth's competitors with an advantage in that they would know the price or rate below which BellSouth could not provide the service. The data is valuable to competitors and potential competitors in formulating strategic plans for entry, pricing, marketing and overall business strategies concerning access services. This information relates to the competitive interests of BellSouth and disclosure would impair the competitive business of BellSouth.

Additionally, the study contains information which reflects vendor-specific prices negotiated by BellSouth. Public disclosure of this information would impair BellSouth's ability to contract for goods and/or services on favorable terms. For these reasons, the Florida Unbundled Loop Cost Study is considered proprietary.

SECTION 1

SECTION 1

FLORIDA UNBUNDLED LOOPS

INTRODUCTION AND OVERVIEW

This Long Run Incremental Cost study for Voice Grade Loops (2-Wire and 4-Wire) and 2-Wire ISDN Digital Loops is being provided in response to orders set forth by the Florida Public Service Commission in Docket No. 950984-TP Order No. PSC-96-0444-FOF-TP (Unbundling), issued March 29, 1996.

The Unbundled cost elements referred to as loops (2-wire analog voice grade, 4-wire analog voice grade, and 2-wire ISDN digital) represent the cost of the physical transmission facilities (or channel or group of channels on such facility) which extend from the end office to a demarcation point at the customer's premises, (i.e. the network interface). The cost of each facility is determined by loop characteristics as follows:

- type of cable(fiber or copper)
- plant type (aerial, buried, underground)
- size/gauge
- length
- electronic equipment

Loop costs represent both feeder and distribution outside plant in a single line residence/single line business serving environment. The transmission facility terminates on the main distribution frame and does not enter the BellSouth switch. If the loop is served via digital loop carrier, a central office digital loop carrier terminal is required to convert the digital signal to voice grade analog for delivery to the Alternate Local Exchange Carrier.

The Loop Cost Model is a database tool that houses all the facility characteristics described above and produces an average cost. Spreadsheets are used to convert the loop investments into recurring cost.

Recurring costs presented in this study are directly assigned, incremental and levelized so as to be appropriate for the 1996 - 1998 study period. Nonrecurring costs follow the same convention and represent 1996 - 1998 levelized costs also. These long-run incremental costs are developed by using 1995 level incremental loadings and annual cost factors based on 13.2% Cost of Money and directly assigned labor rates.

SECTION 2

SECTION 2

FLORIDA UNBUNDLED LOOPS

DESCRIPTION OF STUDY PROCEDURES

This section describes the general principles for the development of costs supporting the Florida 2-Wire Analog Voice Grade Loop, the 4-Wire Analog Voice Grade Loop, and the 2-Wire ISDN Digital Loop.

All costs are developed utilizing Long Run Incremental Cost methodology. In determining these costs, direct incremental costing techniques are used that are in accordance with accepted economic theory. Direct incremental costs are based on cost causation and include all of the costs directly caused by expanding production, or, alternately, costs that would be saved if the production levels were reduced. Costs are forward looking in nature because only future costs can be saved. Incremental costs are long run to insure that the time period studied is sufficient to capture all forward looking costs affected by the business decision. Shared and common costs are not incremental and therefore are not included. Incremental costs include both recurring (capital and operating expenses) and nonrecurring (service provisioning) costs. Incremental costs account for the expected change in cost to the firm resulting from a new service offering or a change in demand for an existing service.

DEVELOPMENT OF RECURRING COSTS

The monthly costs to BellSouth Telecommunications, Inc., resulting from the capital investments necessary to provide a service are called recurring costs. Recurring costs include capital and operating costs. While capital costs include depreciation, cost of money and income tax, operating costs are the expenses of maintenance and ad valorem and other taxes. These expenses contribute to the ongoing cost to the company associated with the initial capital investment. Recurring costs are developed using incremental economic study applications, representing a forward-looking view of technology and deployment.

The first step in developing an incremental study of recurring costs for the Unbundled Loop costs is to determine the forward-looking network architecture. Material prices for the cables and associated equipment are defined. Next, account specific Telephone Plant Indices are applied, when necessary, to trend investments to the base study period. In-plant factors are applied to material prices to develop installed investments which include engineering and installation (both telephone company and contractor) labor. The deployment probabilities and utilization factors are also considered.

Plant account specific Investment Inflation Factors are applied to the installed investments to trend the base year, or study year, investments to levelized amounts that are valid for a three to five year planning period. Appropriate loadings for land, building and miscellaneous equipment, and right-of-way fees are then applied.

Next, 1995 level Florida Intrastate Incremental Annual Cost Factors are used to calculate the direct cost of capital (in this case, 13.2%), ongoing maintenance and other operating expenses and taxes. These factors (specific factors for each USOA FRC) are applied to levelized investments by account code, yielding an annual cost per account code. These costs are then divided by twelve to arrive at a monthly cost per cost element.

DEVELOPMENT OF NONRECURRING COSTS

Nonrecurring costs are "one-time" costs incurred as a result of provisioning, installing, and disconnecting the 2-Wire Analog Voice Grade Loop, the 4-Wire Analog Voice Grade Loop, and the 2-Wire ISDN Digital Loop. The first step in developing nonrecurring costs is to determine the cost elements related to the study. These cost elements are then described by all of the individual work functions required to provision the cost element. The work functions can be grouped into four categories. These are service order, engineering, connect and test, and technician travel time. The work function times, identified by subject matter experts, are used to describe the flow of work within the various work centers involved. Installation and provisioning costs are developed by multiplying the work time for each work function by the directly assigned labor rate for the work group performing the function.

Disconnect costs are calculated in the same manner, utilizing work functions, work times and labor rates. However, a disconnect factor associated with the projected location life of the cost element is applied to the disconnect cost. The disconnect factor inflates the labor cost to the period of the future disconnect, discounts these costs to the present, since the money is received up-front, and adjusts for the income tax effect due to the difference in time between the receipt of money and the disconnect expense. The disconnect cost is added to the installation cost to develop the total nonrecurring cost.

SECTION 3

SECTION 3

FLORIDA UNBUNDLED LOOPS

SUMMARY OF RESULTS

This section contains a cost summary for both recurring and nonrecurring cost elements studied for the 1996 - 1998 Unbundled 2-Wire Analog Voice Grade Loop, the 4-Wire Analog Voice Grade Loop, and the 2-Wire ISDN Digital Loop.

FLORIDA UNBUNDLED LOOPS

SUMMARY OF RESULTS

		A	B	C
		Monthly Cost	Nonrecurring Cost First	Nonrecurring Cost Additional
5	2 Wire Analog Voice Grade Loop			
6	4 Wire Analog Voice Grade Loop			
7	2 Wire ISDN Digital Loop			

SECTION 4

SECTION 4

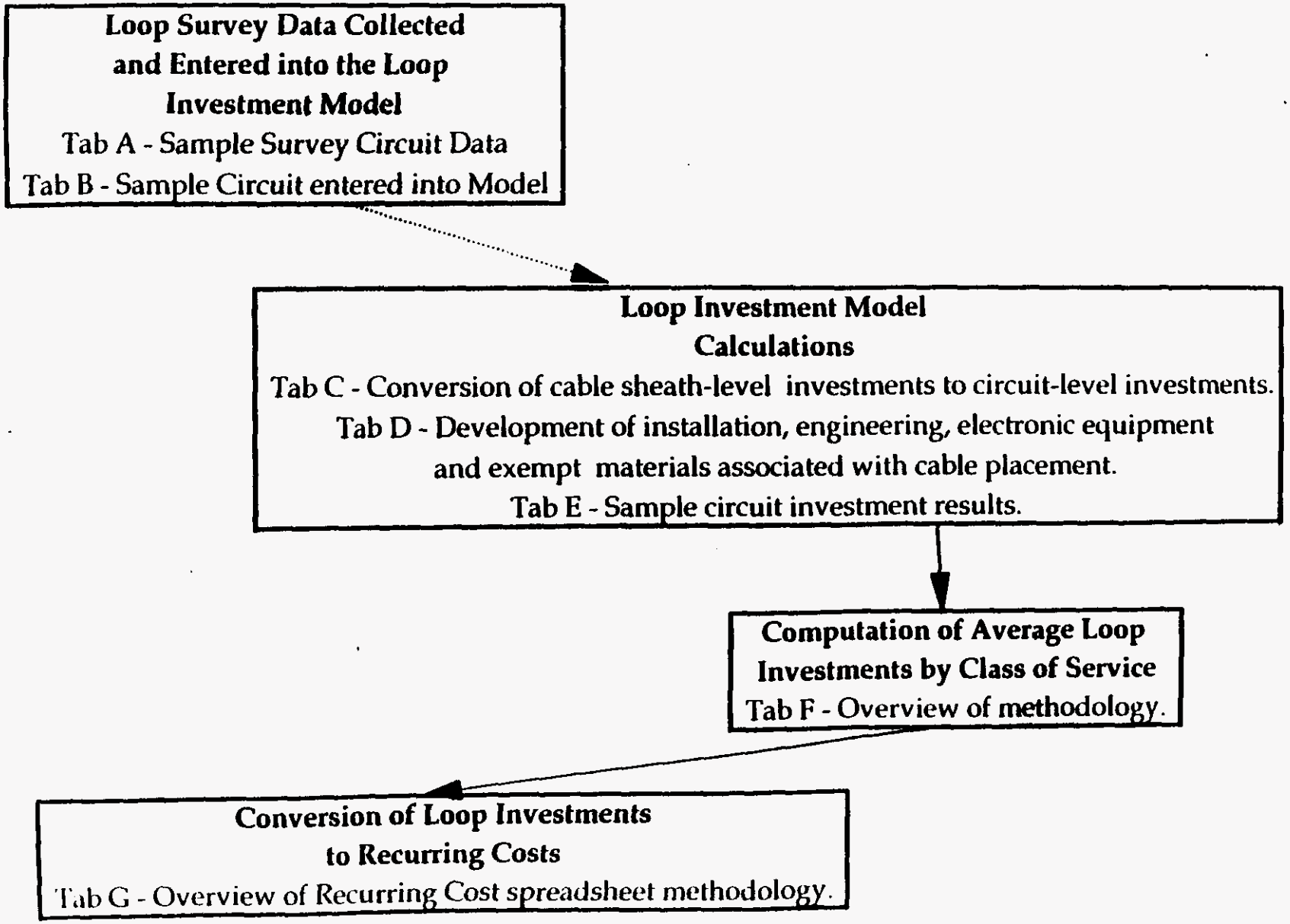
FLORIDA UNBUNDLED LOOPS

COST DEVELOPMENT - RECURRING

Generally, economic cost development is outlined in Section 2. Network architecture is determined, the necessary equipment is identified, material prices are obtained, factors, utilization and loadings are applied and the result is levelized for the study period. Annual cost factors are applied to convert the investment to cost.

The following workpapers show how a typical loop cost investment is developed. From all loop investments an average loop investment is created and then, as described above, annual and monthly costs are developed.

LOOP COST DEVELOPMENT PROCEDURES



TAB A

District: Broward - Fort Lauderdale

MPLE #: 0002
rcuit : 3053409149
C Cat.: RESIDENCE

W.C.: DRBHFLMA
USOC: IFR

	F1 Information	F2 Information	F3 Information
ble	PB2B	5751WPB	
ir	3930	11054	
dr	5751 WINSTON PARKBLVD	HR 5460 NW 55TH BLVD	

FRC	Facility	Sec.	Size	Ba.	Length	Plat	
[illegible]	[illegible]	F					CAMX
[illegible]	CABLE	F	60		971		
[illegible]	CABLE	F	60		845		
FSC	CABLE	F	60		991		
FSC	CABLE	F	60		32936		
FSC	CABLE	F	60		35886		
FSC	CABLE	F	36		3148		
FSC	CABLE	F	36		2359		
FSC	CABLE	F	36		4633		
FSC	CABLE	F	36		3157		
FSC	CABLE	F	36		62		
FSC	CABLE	F	30		2960		
FSC	CABLE	F	30		1600		
FSC	CABLE	F	30		240		
FSC	CABLE	F	18		1918		
FSC	CABLE	F	18		1636		
FSC	CABLE	F	18		700		
FSC	CABLE	F	18		2236		
FSC	CABLE	F	18		309		
FSC	CABLE	F	18		482		

F18G01Q 00185

"9543609149",2,1,"45C","Buried Copper Cable",1,600,24,20,"",""
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"9543609149",2,3,"45C","Buried Copper Cable",1,400,26,325,"",""
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"9543609149",2,5,"12C","Building Entrance Copper Cable",1,50,26,190,"",""
"9543609149",2,6,"12C","Building Entrance X-Box",1,50,0,0,"MR 5460 NW 55TH BLVD",""
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"9543609149",3,4,"5C","Underground End Section or Bridged Tap",4,1200,26,20,"",""

AMPLE #: 0002

FRC	Facility	Sec.	Size	Ga.	Length	Plat	
FASC	CABLE	F	18		572		
FSC	CABLE	F	12		692		
FASC	CABLE	F	12		2604		
FLLC	CABLE	F	12		2934		
FASC	CABLE	F	12		909		
FASC	CABLE	F	12		790		
FSC	CABLE	F	18		5276		
ZSTC	REGENERATOR	F				CLL1	MUX AT RT.
SC	CABLE	F	600	26	40		
SC	CABLE	F	600	24	25		
ASC	X BOX	I	3600				

TAB B

FLORIDA LOOP COST STUDY -- CABLE MATERIAL INVESTMENTS FOR LOOP SAMPLE #2

LOOP # : 200 STATE : FL SVC DESC : Florida Loop Survey Circuit CIRCUIT ID : 3053009149 CLLI : DRBHFLMA

CIRCUIT TYPE : V CIRCUIT LEVEL : DS0 DESIGN : 13 CLASS OF SVC: RESIDENCE DLC & MUX LOADINGS :B

ROUTE LENGTH : 52,908 ROUTE MILE : 10.02 AIR MILES : 6.16

A Seg	B Item	C Category	D Field Code	E Pid	F Description	G Feeder/Dist	H Size	I Gauge/Mode	J Plannt/DB	K Units	L Unit Inv
1	1	Fiber	F5C	FOCALL40DB60	CABLE FB-OPT ALL 40DB 60	F	60	Sgl	40db	971.00	
2	1	Fiber	F5C	FOCALL40DB60	CABLE FB-OPT ALL 40DB 60	F	60	Sgl	40db	845.00	
3	1	Fiber	F5C	FOCALL40DB60	CABLE FB-OPT ALL 40DB 60	F	60	Sgl	40db	951.00	
4	1	Fiber	F5C	FOCALL40DB60	CABLE FB-OPT ALL 40DB 60	F	60	Sgl	40db	3,256.00	
5	1	Fiber	F5C	FOCALL40DB60	CABLE FB-OPT ALL 40DB 60	F	60	Sgl	40db	3,886.00	
6	1	Fiber	F5C	FOCALL40DB36	CABLE FB-OPT ALL 40DB 36	F	36	Sgl	40db	3,148.00	
7	1	Fiber	F5C	FOCALL40DB36	CABLE FB-OPT ALL 40DB 36	F	36	Sgl	40db	2,359.00	
8	1	Fiber	F5C	FOCALL40DB36	CABLE FB-OPT ALL 40DB 36	F	36	Sgl	40db	4,653.00	
9	1	Fiber	F5C	FOCALL40DB36	CABLE FB-OPT ALL 40DB 36	F	36	Sgl	40db	3,757.00	
10	1	Fiber	F5C	FOCALL40DB36	CABLE FB-OPT ALL 40DB 36	F	36	Sgl	40db	62.00	
11	1	Fiber	F5C	FOCALL40DB30	CABLE FB-OPT ALL 40DB 30	F	30	Sgl	40db	2,860.00	
12	1	Fiber	F22C	FOCALL40DB30	CABLE FB-OPT ALL 40DB 30	F	30	Sgl	40db	1,600.00	
13	1	Fiber	F5C	FOCALL40DB30	CABLE FB-OPT ALL 40DB 30	F	30	Sgl	40db	240.00	
14	1	Fiber	F5C	FOCALL40DB18	CABLE FB-OPT ALL 40DB 18	F	18	Sgl	40db	1,818.00	
15	1	Fiber	F5C	FOCALL40DB18	CABLE FB-OPT ALL 40DB 18	F	18	Sgl	40db	1,652.00	
16	1	Fiber	F45C	FOCALL40DB18	CABLE FB-OPT ALL 40DB 18	F	18	Sgl	40db	700.00	
17	1	Fiber	F22C	FOCALL40DB18	CABLE FB-OPT ALL 40DB 18	F	18	Sgl	40db	2,232.00	
18	1	Fiber	F22C	FOCALL40DB18	CABLE FB-OPT ALL 40DB 18	F	18	Sgl	40db	509.00	
19	1	Fiber	F22C	FOCALL40DB18	CABLE FB-OPT ALL 40DB 18	F	18	Sgl	40db	482.00	
20	1	Fiber	F45C	FOCALL40DB18	CABLE FB-OPT ALL 40DB 18	F	18	Sgl	40db	572.00	
21	1	Fiber	F5C	FOCALL40DB12	CABLE FB-OPT ALL 40DB 12	F	12	Sgl	40db	692.00	
22	1	Fiber	F45C	FOCALL40DB12	CABLE FB-OPT ALL 40DB 12	F	12	Sgl	40db	2,604.00	
23	1	Fiber	F22C	FOCALL40DB12	CABLE FB-OPT ALL 40DB 12	F	12	Sgl	40db	2,834.00	
24	1	Fiber	F45C	FOCALL40DB12	CABLE FB-OPT ALL 40DB 12	F	12	Sgl	40db	909.00	
25	1	Fiber	F45C	FOCALL40DB12	CABLE FB-OPT ALL 40DB 12	F	12	Sgl	40db	790.00	
26	1	Fiber	F5C	FOCALL40DB18	CABLE FB-OPT ALL 40DB 18	F	18	Sgl	40db	5,276.00	
28	1	Copper	5C	600ULRIC	LRIC mix of 22,24,26 gauge	F	600	MIX	U	40.00	
29	1	Copper	45C	600BLRIC	LRIC mix of 22,24,26 gauge	F	600	MIX	B	25.00	
41	1	Copper	45C	600BLRIC	LRIC mix of 22,24,26 gauge	D	600	MIX	B	20.00	

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LOOP # : 200 STATE : FL SVC DESC : Florida Loop Survey Circuit CIRCUIT ID : 3053609149 CLLI : DRBHFLMA

CIRCUIT TYPE : V CIRCUIT LEVEL : DS0 DESIGN : 13 CLASS OF SVC: RESIDENCE DLC & MUX LOADINGS :B

ROUTE LENGTH : 52,908 ROUTE MILE : 10.02 AIR MILES : 6.16

	A Seg	B Item	C Category	D Field Code	E Pid	F Description	G Feeder/Dist	H Size	I Gauge/Mode	J Plemnt/DB	K Units	L Unit Inv
	32	1	Copper	45C	900BLRIC	LRIC mix of 22,24,26 gauge	D	900	MIX	B	950.00	
	33	1	Copper	45C	400BLRIC	LRIC mix of 22,24,26 gauge	D	400	MIX	B	325.00	
	34	1	Copper	45C	200BLRIC	LRIC mix of 22,24,26 gauge	D	200	MIX	B	1,700.00	
	35	1	Copper	12C	333892750	Copper Riser Cable ARTM	D	50	26	R	190.00	

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TAB C

Conversion of Cable Sheath Investments to DS0-equivalent Investments

The Loop Investment Model stores cable investments at the actual price which BellSouth Telecommunications currently pays each cable type. The investments are maintained at a "sheath foot" level and must be converted to a circuit-level investment before loop costs can be developed.

The **first step** in developing a circuit-level cable investment is to determine the number of copper pairs or fiber strands which are typically utilized for a given cable. This is accomplished by applying the following utilization percentages to the cable size (# of pairs or strands):

	A Cable Type	B Placement	C Utilization Percentages
11	Copper	Feeder	
12	Copper	Distribution	
13	Fiber	Feeder	
14	Fiber	Distribution	

For example:

16
17
18

The **second step** in developing a circuit-level cable investment is to determine the number of DS0-level circuits supported by the utilized copper pairs or fiber strands as determined above. This is accomplished by applying the following typical DS0 circuit counts to the number of utilized copper pairs or fiber strands:

	A Cable Type	B Placement	C DS0-equivalent Circuits
24	Copper	Feeder	
25	Copper	Distribution	
26	DLC* on Copper	Feeder	
27	DLC on Fiber	Feeder	
28	DLC on Fiber	Feeder	

* DLC = Digital Loop Carrier

For example:

31
32
33

The **third step** in developing a circuit-level cable investment is to divide the sheath foot investment by the DS0-equivalent count for the cable and multiply the circuit-foot investment by the number of cable feet.

For example:

7	900 pair buried copper distribution cable:	$	per sheath foot		
8	# of DS0-equivalent circuits:	900 •	=	DS0-equivalent circuits	
9	Conversion from sheath to circuit investment:	$		per circuit foot	
	# of cable feet:	950			
11	Total circuit-level cable investment:	950 •			

{Loop segment #32, Item #1 in the sample circuit data and results}

13	60 strand underground fiber feeder cable:	$	per sheath foot		
14	# of DS0-equivalent circuits:	60 •		DS0-equivalent circuits	
15	• Conversion from sheath to circuit investment:			per circuit foot	
	# of cable feet:	971			
17	Total circuit-level cable investment:	971 •			

{Loop segment #1, item #1 in the sample circuit data and results.}

TAB D

Development of Installation, Engineering, Electronic Equipment and Exempt Material Investments Associated with Cable Placement

After developing circuit-level cable investments, the model computes installation, engineering, and exempt material investments associated with cable placements. This is accomplished through the use of inplant factors which are state and field reporting code specific.

For example:

	A	B	C
	Field Code	Investment Description	Inplant Factor
9	45C	Telco Installation Labor - underground fiber feeder	
11	45C	Telco Engineering Labor- underground fiber feeder	
13	45C	Contractor Installation Labor- underground fiber feeder	
15	45C	Exempt Material- underground fiber feeder	
17	20C	Right-of-Way	

18 Circuit-level cable investment: $
{950ft of 900 pair copper distribution cable; Loop segment #32, item #1 in the sample circuit data and results.}

Calculations:

Compute the Total Material Investment:

23 $ ./ (1-exempt material factor) =

24 $

Exempt Material Investment:

Total material investment - Cable investment =

27 $

Telco Installation Labor Investment:

Total material investment * Telco installation factor =

30 $

Telco Engineering Labor Investment:

Total material investment * Telco engineering factor =

33 $

Contractor Installation Labor Investment:
Total material investment • Contractor installation factor =
$

Right-of-Way Investment:
Total material investment • ROW factor =
$

TOTAL INVESTMENTS FOR THIS CABLE SEGMENT:

20C $
45C $

ELECTRONIC EQUIPMENT:

Following the development of total cable segment investments, the model pulls-in electronic investments which have been developed in the Fundamental Digital Loop Carrier Investment Model and the Fundamental Multiplexer Investment Model. These investments are stored in the model at a DS0-equivalent level and are design specific.

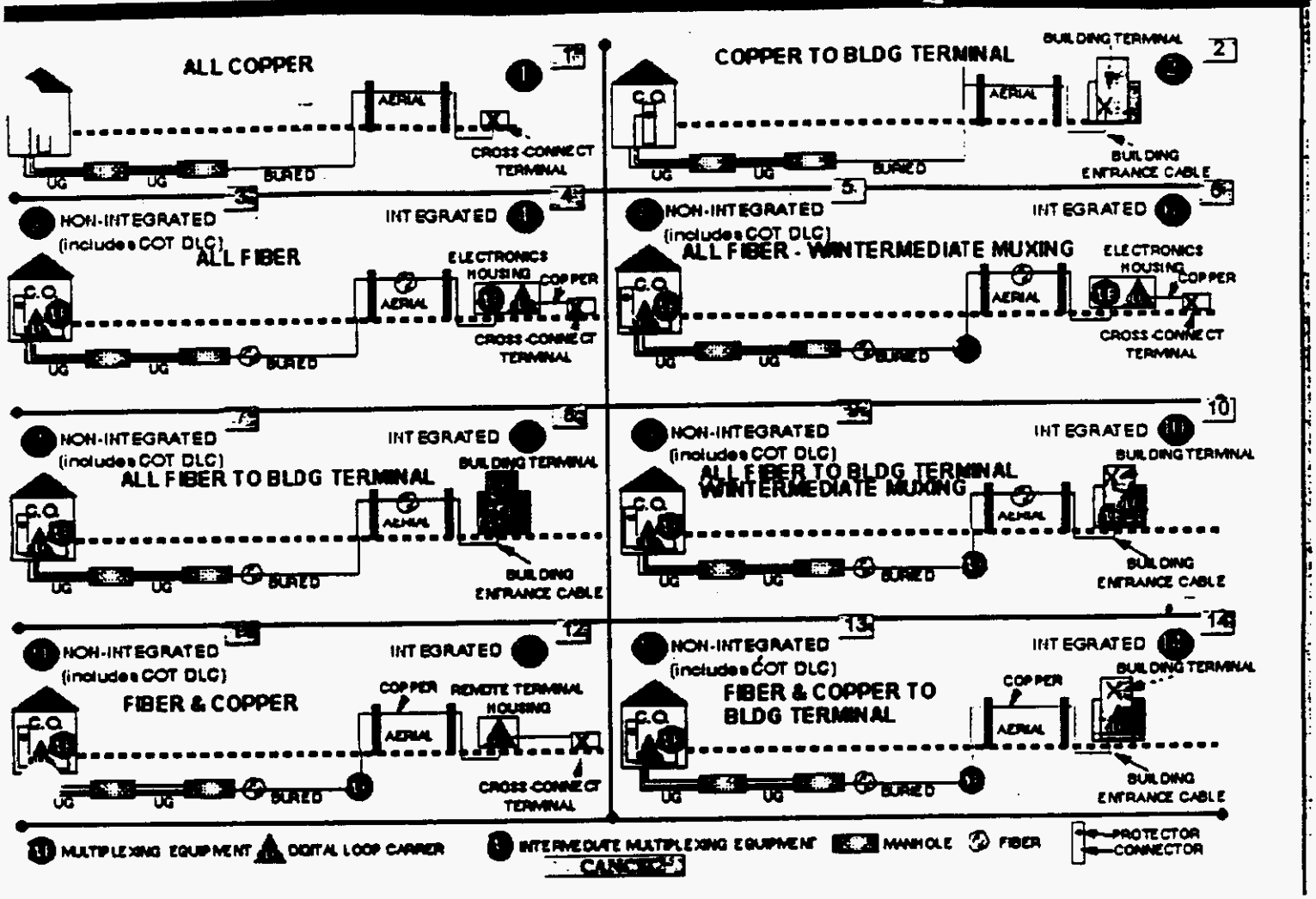
A loop design number is assigned to each survey circuit as it is initially loaded into the Loop Investment Model. Each survey circuit's design is determined by the characteristics of the cable segments (copper/fiber, feeder/distribution, presence of a building terminal, presence of intermediate muxing, etc.) The fourteen possible designs are listed below:

1 All copper loop (no electronic equipment)
2 All copper loop which terminates in a building terminal (no electronic equipment)
3 All fiber in the feeder route - non-integrated digital loop carrier
4 All fiber in the feeder route - integrated digital loop carrier
5 #3 - with intermediate muxing
6 #4 - with intermediate muxing
7 #3 - terminates in a building terminal
8 #4 - terminates in a building terminal
9 #7 - with intermediate muxing
10 #8 - with intermediate muxing

Design descriptions continued:

11 Fiber feeder to a remote terminal with copper feeder to the interface - non-integrated digital loop carrier
12 Fiber feeder to a remote terminal with copper feeder to the interface - integrated digital loop carrier
13 #11 - terminates in a building terminal
14 #12 - terminates in a building terminal

The sample circuit shown in this documentation is a design # 13. The electronic investments shown for this circuit in TAB E are on page #5, Segment #35 and #36. See page #4 for a diagram of these designs.


ALL COPPER
AERIAL
CROSS-CONNECT TERMINAL
UG
BURIED
COPPER TO BLDG TERMINAL
BUILDING TERMINAL
BUILDING ENTRANCE CABLE
NON-INTEGRATED
(includes COT DLC)
INTEGRATED
ALL FIBER
ELECTRONICS HOUSING
COPPER
ALL FIBER - WINTERMEDIATE MUXING
ALL FIBER TO BLDG TERMINAL
ALL FIBER TO BLDG TERMINAL WINTERMEDIATE MUXING
FIBER & COPPER
REMOTE TERMINAL HOUSING
FIBER & COPPER TO BLDG TERMINAL
C.O.
MULTIPLEXING EQUIPMENT
DIGITAL LOOP CARRIER
INTERMEDIATE MULTIPLEXING EQUIPMENT
MANHOLE
FIBER
PROTECTOR
CONNECTOR

CANCELLED

TAB E

LOOP # : 2.00 STATE : FL SVC DESC : Florida Loop Survey Circuit CIRCUIT ID : 3053609149 CLLI : DRBHFLMA
CIRCUIT TYPE : V CIRCUIT LEVEL : DS0 DESIGN : 13 CLASS OF SVC: RESIDENCE DLC & MUX LOADINGS :B
ROUTE LENGTH : 52.908 ROUTE MILE : 10.02 AIR MILES : 6.16

A Seg	B Item	C M/L	D FRC	E Pid	F Type	G Description	H F/D	I Size	J Cg/Md	K Pl/db	L Units	M Unit Inv	N Totalinv
1	1	M	F5C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 60	F	60	Sgl	.40d	971		
1	2	M	F5C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
1	3	B	4C	SUPPORT_L	DV	Conduit ldg for undg	F	n/a	n/a	n/a	1		
1	4	L	F5C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
1	5	L	F5C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
1	6	L	F5C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
2	1	M	F5C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 60	F	60	Sgl	.40d	845		
2	2	M	F5C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
2	3	B	4C	SUPPORT_L	DV	Conduit ldg for undg	F	n/a	n/a	n/a	1		
2	4	L	F5C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
2	5	L	F5C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
2	6	L	F5C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
3	1	M	F5C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 60	F	60	Sgl	.40d	951		
3	2	M	F5C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
3	3	B	4C	SUPPORT_L	DV	Conduit ldg for undg	F	n/a	n/a	n/a	1		
3	4	L	F5C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
3	5	L	F5C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
3	6	L	F5C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
4	1	M	F5C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 60	F	60	Sgl	.40d	3,256		
4	2	M	F5C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
4	3	B	4C	SUPPORT_L	DV	Conduit ldg for undg	F	n/a	n/a	n/a	1		
4	4	L	F5C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
4	5	L	F5C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
4	6	L	F5C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
5	1	M	F5C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 60	F	60	Sgl	.40d	3,886		
5	2	M	F5C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
5	3	B	4C	SUPPORT_L	DV	Conduit ldg for undg	F	n/a	n/a	n/a	1		
5	4	L	F5C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
5	5	L	F5C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
5	6	L	F5C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
6	1	M	F5C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 36	F	36	Sgl	.40d	3,148		
6	2	M	F5C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
6	3	B	4C	SUPPORT_L	DV	Conduit ldg for undg	F	n/a	n/a	n/a	1		
6	4	L	F5C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
6	5	L	F5C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
6	6	L	F5C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
7	1	M	F5C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 36	F	36	Sgl	.40d	2,359		
7	2	M	F5C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
7	3	B	4C	SUPPORT_L	DV	Conduit ldg for undg	F	n/a	n/a	n/a	1		
7	4	L	F5C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
7	5	L	F5C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		

LOOP # : 2.00 STATE : FL SVC DESC : Florida Loop Survey Circuit CIRCUIT ID : 3053609149 CLLI : DRBHFLMA
CIRCUIT TYPE : V CIRCUIT LEVEL : DS0 DESIGN : 13 CLASS OF SVC: RESIDENCE DLC & MUX LOADINGS : B
ROUTE LENGTH : 52,908 ROUTE MILE : 10.02 AIR MILES : 6.16

A Seg	B Item	C M/L	D FRC	E Pid	F Type	G Description	H I/D	I Size	J Cg/Md	K Pl/db	L Units	M Unit Inv	N Totalinv
7	6	L	F5C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
8	1	M	F5C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 36	F	36	Sgl	.40d	4,633		
8	2	M	F5C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
8	3	B	4C	SUPPORT_L	DV	Conduit ldg for undg	F	n/a	n/a	n/a	1		
8	4	L	F5C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
8	5	L	F5C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
8	6	L	F5C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
9	1	M	F5C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 36	F	36	Sgl	.40d	3,737		
9	2	M	F5C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
9	3	B	4C	SUPPORT_L	DV	Conduit ldg for undg	F	n/a	n/a	n/a	1		
9	4	L	F5C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
9	5	L	F5C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
9	6	L	F5C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
10	1	M	F5C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 36	F	36	Sgl	.40d	62		
10	2	M	F5C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
10	3	B	4C	SUPPORT_L	DV	Conduit ldg for undg	F	n/a	n/a	n/a	1		
10	4	L	F5C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
	5	L	F5C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
	6	L	F5C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
11	1	M	F5C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 30	F	30	Sgl	.40d	2,860		
11	2	M	F5C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
11	3	B	4C	SUPPORT_L	DV	Conduit ldg for undg	F	n/a	n/a	n/a	1		
11	4	L	F5C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
11	5	L	F5C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
11	6	L	F5C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
12	1	M	F22C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 30	F	30	Sgl	.40d	1,600		
12	2	M	F22C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
12	3	B	1C	SUPPORT_L	DV	Pole ldg for aerial	F	n/a	n/a	n/a	1		
12	4	L	F22C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a-	n/a	1		
12	5	L	F22C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
12	6	L	F22C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
13	1	M	F5C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 30	F	30	Sgl	.40d	240		
13	2	M	F5C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
13	3	B	4C	SUPPORT_L	DV	Conduit ldg for undg	F	n/a	n/a	n/a	1		
13	4	L	F5C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
13	5	L	F5C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
13	6	L	F5C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
	1	M	F5C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 18	F	18	Sgl	.40d	1,818		
	2	M	F5C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
14	3	B	4C	SUPPORT_L	DV	Conduit ldg for undg	F	n/a	n/a	n/a	1		
14	4	L	F5C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		

LOOP # : 2.00 STATE : FL SVC DESC : Florida Loop Survey Circuit CIRCUIT ID : 3053609149 CLLI : DRBHFLMA
CIRCUIT TYPE : V CIRCUIT LEVEL : DS0 DESIGN : 13 CLASS OF SVC: RESIDENCE DLC & MUX LOADINGS : 8
ROUTE LENGTH : 52.908 ROUTE MILE : 10.02 AIR MILES : 6.16

A Seg	B Item	C M/L	D FRC	E Pid	F Type	G Description	H F/D	I Size	J Cg/Md	K Pl/db	L Units	M Unit Inv	N TotalInv
14	5	L	F5C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
14	6	L	F5C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
15	1	M	F5C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 18	F	18	Sgl	.40d	1,652		
15	2	M	F5C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
15	3	B	4C	SUPPORT_L	DV	Conduit ldg for undg	F	n/a	n/a	n/a	1		
15	4	L	F5C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
15	5	L	F5C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
15	6	L	F5C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
16	1	M	F45C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 18	F	18	Sgl	.40d	700		
16	2	M	F45C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
16	3	B	20C	SUPPORT_L	DV	ROW ldg for buried	F	n/a	n/a	n/a	1		
16	4	L	F45C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
16	5	L	F45C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
16	6	L	F45C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
17	1	M	F22C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 18	F	18	Sgl	.40d	2,232		
17	2	M	F22C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
17	3	B	1C	SUPPORT_L	DV	Pole ldg for aerial	F	n/a	n/a	n/a	1		
	4	L	F22C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
	5	L	F22C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
17	6	L	F22C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
18	1	M	F22C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 18	F	18	Sgl	.40d	309		
18	2	M	F22C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
18	3	B	1C	SUPPORT_L	DV	Pole ldg for aerial	F	n/a	n/a	n/a	1		
18	4	L	F22C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
18	5	L	F22C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
18	6	L	F22C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
19	1	M	F22C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 18	F	18	Sgl	.40d	482		
19	2	M	F22C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
19	3	B	1C	SUPPORT_L	DV	Pole ldg for aerial	F	n/a	n/a	n/a	1		
19	4	L	F22C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
19	5	L	F22C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
19	6	L	F22C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
20	1	M	F45C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 18	F	18	Sgl	.40d	572		
20	2	M	F45C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
20	3	B	20C	SUPPORT_L	DV	ROW ldg for buried	F	n/a	n/a	n/a	1		
20	4	L	F45C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
20	5	L	F45C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
	6	L	F45C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
	1	M	F5C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 12	F	12	Sgl	.40d	692		
21	2	M	F5C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
21	3	B	4C	SUPPORT_L	DV	Conduit ldg for undg	F	n/a	n/a	n/a	1		

LOOP # : 2.00 STATE : FL SVC DESC : Florida Loop Survey Circuit CIRCUIT ID : 3053609149 CLLI : DRBHFLMA
CIRCUIT TYPE : V CIRCUIT LEVEL : DS0 DESIGN : 13 CLASS OF SVC: RESIDENCE DLC & MUX LOADINGS : B
ROUTE LENGTH : 52,908 ROUTE MILE : 10.02 AIR MILES : 6.16

A Seg	B Item	C M/L	D FRC	E Pid	F Type	G Description	H F/D	I Size	J Cg/Md	K Pl/db	L Units	M Unit Inv	N Totalinv
21	4	L	F5C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
21	5	L	F5C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
21	6	L	F5C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
22	1	M	F45C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 12	F	12	Sgl	.40d	2,604		
22	2	M	F45C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
22	3	B	20C	SUPPORT_L	DV	ROW ldg for buried	F	n/a	n/a	n/a	1		
22	4	L	F45C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
22	5	L	F45C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
22	6	L	F45C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
23	1	M	F22C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 12	F	12	Sgl	.40d	2,834		
23	2	M	F22C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
23	3	B	1C	SUPPORT_L	DV	Pole ldg for aerial	F	n/a	n/a	n/a	1		
23	4	L	F22C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
23	5	L	F22C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
23	6	L	F22C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
24	1	M	F45C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 12	F	12	Sgl	.40d	909		
24	2	M	F45C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
	3	B	20C	SUPPORT_L	DV	ROW ldg for buried	F	n/a	n/a	n/a	1		
	4	L	F45C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
24	5	L	F45C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
24	6	L	F45C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
25	1	M	F45C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 12	F	12	Sgl	.40d	790		
25	2	M	F45C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
25	3	B	20C	SUPPORT_L	DV	ROW ldg for buried	F	n/a	n/a	n/a	1		
25	4	L	F45C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
25	5	L	F45C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
25	6	L	F45C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
26	1	M	F5C	FOCALL40D	DV	CABLE FB-OPT ALL 40DB 18	F	18	Sgl	.40d	5,276		
26	2	M	F5C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
26	3	B	4C	SUPPORT_L	DV	Conduit ldg for undg	F	n/a	n/a	n/a	1		
26	4	L	F5C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
26	5	L	F5C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
26	6	L	F5C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
28	1	M	5C	600ULRIC	DV	LRIC mix of 22,24,26 gauge	F	600	MIX	U	40		
28	2	M	5C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		
28	3	B	4C	SUPPORT_L	DV	Conduit ldg for undg	F	n/a	n/a	n/a	1		
28	4	L	5C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
	5	L	5C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
	6	L	5C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
29	1	M	45C	600BLRIC	DV	LRIC mix of 22,24,26 gauge	F	600	MIX	B	25		
29	2	M	45C	EXEMPT_MA	DV	Exempt materials loadings	F	n/a	n/a	n/a	1		

LOOP # : 2.00 STATE : FL SVC DESC : Florida Loop Survey Circuit CIRCUIT ID : 3053609149 CLLI : DRBHFLMA
CIRCUIT TYPE : V CIRCUIT LEVEL : DS0 DESIGN : 13 CLASS OF SVC: RESIDENCE DLC & MUX LOADINGS :B
ROUTE LENGTH : 52,908 ROUTE MILE : 10.02 AIR MILES : 6.16

A Seg	B Item	C M/L	D FRC	E Pid	F Type	G Description	H F/D	I Size	J Gg/Md	K Pl/db	L Units	M Unit Inv	N Totalinv
29	3	B	20C	SUPPORT_L	DV	ROW ldg for buried	F	n/a	n/a	n/a	1		
29	4	L	45C	INPLANT_E	DV	Telco engineering labor	F	n/a	n/a	n/a	1		
29	5	L	45C	INPLANT_IN	DV	Telco installation labor	F	n/a	n/a	n/a	1		
29	6	L	45C	INPLANT_C	DV	Contractor engineering & installation labor	F	n/a	n/a	n/a	1		
35	2	B	257C	DLC Equipm	DV	Channel unit plug-in	F	n/a	n/a	RT	1		
35	3	B	257C	DLC Equipm	DV	DLC CO, DSX-1 Panel	F	n/a	n/a	CO	1		
35	4	B	257C	DLC Equipm	DV	DLC RT, DSX-1 Panel	F	n/a	n/a	RT	1		
36	1	B	257C	MUX Equipm	DV	LRIC mux of 22,24,26 gauge	F	n/a	n/a	CO	1		
36	2	B	10C	MUX Equipm	DV	Hut	F	n/a	n/a	RT-	1		
36	3	B	257C	MUX Equipm	DV	LRIC mux of 22,24,26 gauge	F	n/a	n/a	RT-	1		
36	4	B	4C	MUX Equipm	DV	CEV	F	n/a	n/a	RT-	1		

INVESTMENT SUBTOTAL FOR INV TYPE: DV

INVESTMENT SUBTOTAL FOR FEEDER

Seg	Item	M/L	FRC	Pid	Type	Description	F/D	Size	Gg/Md	Pl/db	Units	Unit Inv	Totalinv
31	1	M	45C	600BLRIC	DV	LRIC mix of 22,24,26 gauge	D	600	MIX	B	20		
	2	M	45C	EXEMPT_MA	DV	Exempt materials loadings	D	n/a	n/a	n/a	1		
	3	B	20C	SUPPORT_L	DV	ROW ldg for buried	D	n/a	n/a	n/a	1		
31	4	L	45C	INPLANT_E	DV	Telco engineering labor	D	n/a	n/a	n/a	1		
31	5	L	45C	INPLANT_IN	DV	Telco installation labor	D	n/a	n/a	n/a	1		
31	6	L	45C	INPLANT_C	DV	Contractor engineering & installation labor	D	n/a	n/a	n/a	1		
32	1	M	45C	900BLRIC	DV	LRIC mix of 22,24,26 gauge	D	900	MIX	B	950		
32	2	M	45C	EXEMPT_MA	DV	Exempt materials loadings	D	n/a	n/a	n/a	1		
32	3	B	20C	SUPPORT_L	DV	ROW ldg for buried	D	n/a	n/a	n/a	1		
32	4	L	45C	INPLANT_E	DV	Telco engineering labor	D	n/a	n/a	n/a	1		
32	5	L	45C	INPLANT_IN	DV	Telco installation labor	D	n/a	n/a	n/a	1		
32	6	L	45C	INPLANT_C	DV	Contractor engineering & installation labor	D	n/a	n/a	n/a	1		
33	1	M	45C	400BLRIC	DV	LRIC mix of 22,24,26 gauge	D	400	MIX	B	325		
33	2	M	45C	EXEMPT_MA	DV	Exempt materials loadings	D	n/a	n/a	n/a	1		
33	3	B	20C	SUPPORT_L	DV	ROW ldg for buried	D	n/a	n/a	n/a	1		
33	4	L	45C	INPLANT_E	DV	Telco engineering labor	D	n/a	n/a	n/a	1		
33	5	L	45C	INPLANT_IN	DV	Telco installation labor	D	n/a	n/a	n/a	1		
33	6	L	45C	INPLANT_C	DV	Contractor engineering & installation labor	D	n/a	n/a	n/a	1		
34	1	M	45C	200BLRIC	DV	LRIC mix of 22,24,26 gauge	D	200	MIX	B	1,700		
34	2	M	45C	EXEMPT_MA	DV	Exempt materials loadings	D	n/a	n/a	n/a	1		
34	3	B	20C	SUPPORT_L	DV	ROW ldg for buried	D	n/a	n/a	n/a	1		
	4	L	45C	INPLANT_E	DV	Telco engineering labor	D	n/a	n/a	n/a	1		
	5	L	45C	INPLANT_IN	DV	Telco installation labor	D	n/a	n/a	n/a	1		
34	6	L	45C	INPLANT_C	DV	Contractor engineering & installation labor	D	n/a	n/a	n/a	1		
35	1	M	12C	333892750	DV	Copper Riser Cable ARTM	D	50	26	R	190		

LOOP # : 2.00 STATE : FL SVC DESC : Florida Loop Survey Circuit CIRCUIT ID : 3053609149 C.L.L.I : DRBHFLMA

CIRCUIT TYPE : V CIRCUIT LEVEL : DS0 DESIGN : 13 CLASS OF SVC: RESIDENCE DLC & MUX LOADINGS :B

ROUTE LENGTH : 52,908 ROUTE MILE : 10.02 AIR MILES : 6.16

A Seg	B Item	C M/L	D FRC	E Fid	F Type	G Description	H F/D	I Size	J Gg/Md	K Fl/db	L Units	M Unit Inv	N TotalInv
35	5	M	12C	EXEMPT_MA	DV	Exempt materials loadings	D	n/a	n/a	n/a	1		
35	6	L	12C	INPLANT_E	DV	Telco engineering labor	D	n/a	n/a	n/a	1		
35	7	L	12C	INPLANT_IN	DV	Telco installation labor	D	n/a	n/a	n/a	1		
35	8	L	12C	INPLANT_C	DV	Contractor engineering & installation labor	D	n/a	n/a	n/a	1		

INVESTMENT SUBTOTAL FOR INV TYPE: DV

INVESTMENT SUBTOTAL FOR DISTRIBUTION

LOOP MAKEUP INVESTMENT TOTAL:

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TAB F

Computation of Average Loop Investments by Class of Service

After developing investments for each circuit in the loop survey, investment dollars are totaled by field reporting code for Residence and Business circuits separately. The totals are then divided by the number of survey circuits for residence and business. The results represent the average or typical investment for each field reporting code for a Residence and Business circuit.

The weighted loop investment is developed by multiplying the average investment for Residence and Business by the number of lines in service at the time the survey circuits were randomly selected for the loop survey. For example, the resulting average investment for buried aerial metallic cable (45C - feeder and distribution) is $ for the 2 wire 100% non-integrated study.

TAB G

Overview of Recurring Cost Spreadsheet Methodology

The following cost summary spreadsheets are developed as follows:

1) LRIC / 100% Nonintegrated - 2 Wire
2) LRIC / 100% Nonintegrated - 4 Wire
3) LRIC / 100% Nonintegrated - 2 Wire ISDN

Cost Methodology:

1) The average investment (Column C) by Field Reporting Code (FRC) is provided by the loop investment model. The average investment represents the combined feeder and distribution average investment per circuit. The average investment per circuit includes the appropriate state sales tax.

2) The annual cost associated with each investment is determined by multiplying the average investment by the capital and operating expense annual cost factors. The total annual cost is divided by 12 to determine the monthly cost. The monthly cost is multiplied by the 3-5 year levelized investment factor to determine the levelized monthly cost.

3) Spreadsheets 1 and 3 provide for a Weighted Residential and Business Loop Cost ** and Spreadsheet 2 provides for a Business Loop Cost only.

4) The total levelized monthly cost for each spreadsheet includes loop associated cost additives (i.e., levelized monthly computer system cost, distributing frame cost, and TIRKS cost).

** The weighted residential and business loop investment (Column C) is developed by weighting the combined feeder and distribution average investment for Residence and the combined feeder and distribution average investment for Business by the respective residence or business number of access lines in service at the time the circuits were randomly selected for the loop survey.

NOTE: The terms "monthly" and "recurring" are interchangeable.

Combined Feeder & Distribution
LRIC / 100% Nonintegrated - 2 Wire
Weighted Residential & Business Loop Cost

State: FLORIDA

			Average Investment	Deprec	C O M. 13 2%	Income Tax	Total Cap (D+F+H)	Mice	Adval Tax	Oper Exp (L+N)	Local GRT 0 0152 (J+P)*R111	Total Monthly Cost	Levelized Monthly Cost
				(D116*$C117)								(J+P+R)/12	(T*V factor)
	A	B	C	D	E	F	G	H	I	J	K	L	M
116	Land	20C		0 0000	0 1118	0 0514	0 1632	0.0000	0.0113	0 0113	0 0027		1.059
118	Buildings	10C, 110C, 810C		0.0302	0.0986	0.0452	0.1740	0.0089	0.0077	0.0146	0.0029		1.059
120	Digtl Circ-Pair Gain	257C,D257C,F257C		0 1134	0.0636	0.0288	0.2058	0.0089	0.0113	0.0202	0 0034		0.982
122	Poles	1C, 811C		0.0871	0 0725	0.0325	0.1721	0.0279	0.0113	0 0392	0.0032		1.072
124	Aerial Ca-Metallic	22C, 12C, 802C		0.0917	0.0797	0.0338	0.2052	0.0571	0 0113	0.0884	0.0042		1.061
126	Aerial Ca-Fiber	822C, 812C, 882C, 982C,D22C, F22C,T22C,D12C,F12C,T12C		0.0667	0.0784	0.0347	0 1798	0.0139	0.0113	0.0252	0.0031		1.003
129	Unground Ca-Metallic	5C, 805C		0 1036	0.0813	0.0342	0 2191	0.0291	0.0113	0 0404	0 0039		1 089
131	Unground Ca-Fiber	85C,885C,985C,D5C,F5C,T5C		0.0626	0.0800	0.0358	0.1784	0.0135	0 0113	0.0248	0.0031		1.000
133	Buried Ca-Metallic	45C, 846C		0 0876	0 0809	0.0354	0.2039	0.0543	0 0113	0.0656	0.0041		1 058
135	Buried Ca-Fiber	845C,856C,956C,D45C, F45C,T45C		0.0585	0.0816	0.0367	0 1768	0 0144	0 0113	0.0257	0 0031		1.041
138	Submarine Ca-Metallic	6C, 806C		0 0860	0.0814	0.0366	0.2040	0.0150	0 0113	0 0263	0.0035		1 054
140	Submarine Ca-Fiber	86C,886C,D6C,F6C,T6C		0 0860	0.0814	0 0355	0.2029	0.0150	0.0113	0.0263	0 0035		1 000
142	Intrbld Ntwk-Metallic	52C		0 0661	0.0785	0.0340	0.1786	0.0320	0.0113	0.0433	0.0034		1.069
144	Intrbld Ntwk-Fiber	852C,D52C,F52C,T52C		0.0661	0.0785	0.0340	0.1786	0.0320	0.0113	0.0433	0.0034		1 000
146	Conduit Systems	4C, 84C, 94C		0 0242	0.0877	0 0401	0.1520	0 0028	0.0113	0 0141	0 0025		1 044
148	Aerial Drop	22C		0 0917	0 0797	0 0338	0.2052	0 0571	0.0113	0.0884	0 0042		1 061
150	Buried Drop	45C		0.0876	0.0809	0.0354	0.2039	0.0543	0.0113	0.0656	0.0041		1 058

153	Total Investment	SUM(C117 C151)	$
154	Subtotal Levelized Monthly Cost	Sum Cost (Column V)	
155	Levelized Monthly Computer Sys Cost		
156	Levelized Monthly Disbributing Frame Cost		
157	Levelized Monthly TIRKS Cost	(((0 0052*(1+$R$111)*$C121)/12)*$V120)	
158	Total Levelized Monthly Cost	SUM(V154 V157)	

Filename F4V

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1	Combined Feeder & Distribution																						
2	LRIC / 100% Nonintegrated - 4 Wire																						
3	BUSINESS LOOP																						
4																							
5	State:	FLORIDA																					
6																							
7			Average Investment	Deprec	C O M 13 2%	Income Tax	Total Cap (D+F+H)	Mice		Adval Tax	Oper Exp (L+N)			Local GRT 0 0152 (J+P)*R7		Total Monthly Cost (J+P+R)/12			Levelized Monthly Cost (T*V factor)				
8																							
9				(D12*$C13)																			
10																							
11	A	B	C	D	E	F	G	H		I	J			K		L				M			
12	Land	20C		0 0000	0 1118	0 0514	0 1632	0 0000		0 0113	0 0113			0 0027						1 059			
13																							
14	Buildings	10C, 110C, 810C		0 0302	0 0966	0 0452	0 1740	0 0069		0 0077	0 0146			0 0029						1 059			
15																							
16	Digit Carr-Pair Gain	257C,D257C,F257C		0 1134	0 0636	0 0288	0 2058	0 0049		0 0113	0 0202			0 0034						0 962			
17																							
18	Poles	1C, 811C		0 0671	0 0725	0 0325	0 1721	0 0279		0 0113	0 0392			0 0032						1 072			
19																							
20	Aerial Ca-Metallic	22C, 12C, 802C		0 0917	0 0797	0 0338	0 2052	0 0571		0 0113	0 0684			0 0042						1 061			
21																							
22	Aerial Ca-Fiber	822C, 812C, 882C, 982C,D22C, F22C,T22C,D12C,F12C,T12C		0 0667	0 0784	0 0347	0 1798	0 0139		0 0113	0 0252			0 0031						1 003			
23																							
24																							
25	Unground Ca-Metallic	5C, 805C		0 1036	0 0813	0 0342	0 2191	0 0291		0 0113	0 0404			0 0039						1 069			
26																							
27	Unground Ca-Fiber	85C,885C,985C,D5C,F5C,T5C		0 0626	0 0800	0 0358	0 1784	0 0135		0 0113	0 0248			0 0031						1 000			
28																							
29	Buried Ca-Metallic	45C, 846C		0 0876	0 0809	0 0354	0 2039	0 0543		0 0113	0 0656			0 0041						1 058			
30																							
31	Buried Ca-Fiber	845C,856C,956C,D45C, F45C,T45C		0 0585	0 0818	0 0367	0 1788	0 0144		0 0113	0 0257			0 0031						1 041			
32																							
33																							
34	Submarine Ca-Metallic	6C, 806C		0 0860	0 0814	0 0366	0 2040	0 0150		0 0113	0 0263			0 0035						1 054			
35																							
36	Submarine Ca-Fiber	86C,886C,D6C,F6C,T6C		0 0860	0 0814	0 0355	0 2029	0 0150		0 0113	0 0263			0 0035						1 000			
37																							
38	Inbld Ntwk-Metallic	52C		0 0661	0 0785	0 0340	0 1786	0 0320		0 0113	0 0433			0 0034						1 068			
39																							
40	Inbld Ntwk-Fiber	852C,D52C,F52C,T52C		0 0661	0 0785	0 0340	0 1786	0 0320		0 0113	0 0433			0 0034						1 000			
41																							
42	Conduit Systems	4C, 84C, 94C		0 0242	0 0877	0 0401	0 1520	0 0028		0 0113	0 0141			0 0025						1 044			
43																							
44	Aerial Drop	22C		0 0917	0 0797	0 0338	0 2052	0 0571		0 0113	0 0684			0 0042						1 061			
45																							
46	Buried Drop	45C		0 0876	0 0809	0 0354	0 2039	0 0543		0 0113	0 0656			0 0041						1 058			
47																							
48																							
49	Total Investment	SUM(C12 C47)																					
50	Subtotal Levelized Monthly Cost	Sum Cost (Column V)																					
51	Levelized Monthly Computer Sys Cost																						
52	Levelized Monthly Distributing Frame Cost																						
53	Levelized Monthly TIRKS Cost	(((0 0052*(1+$R$7)*$C17)/12)*$V16)																					
54	Total Levelized Monthly Cost	SUM(V50 V53)																					

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Combined Feeder & Distribution
LRIC / 100% Nonintegrated - 2 Wire ISDN
Weighted Residential & Business Loop Cost

State: FLORIDA

A	B	C	D	E	F	G	H	I	J	K	L	M
		Average Investment	Deprec	C O M 13.2%	Income Tax	Total Cap (D+F+H)	Mtce	Adval Tax	Oper Exp (L+N)	Local GRT 0.0152 (J+P)*R111	Total Monthly Cost (J+P+R)/12	Levelized Monthly Cost (T*V factor)
			(D116*$C117)---------->									
Land	20C		0.0000	0.1118	0.0514	0.1632	0.0000	0.0113	0.0113	0.0027		1.059
Buildings	10C, 110C, 810C		0.0302	0.0986	0.0452	0.1740	0.0069	0.0077	0.0146	0.0029		1.059
Digit Circ-Pair Gain	257C,D257C,F257C		0.1134	0.0636	0.0288	0.2058	0.0089	0.0113	0.0202	0.0034		0.962
Poles	1C, 811C		0.0671	0.0725	0.0325	0.1721	0.0279	0.0113	0.0392	0.0032		1.072
Aerial Ca-Metallic	22C, 12C, 802C		0.0917	0.0797	0.0338	0.2052	0.0571	0.0113	0.0684	0.0042		1.061
Aerial Ca-Fiber	822C, 812C, 882C, 982C,D22C, F22C,T22C,D12C,F12C,T12C		0.0667	0.0784	0.0347	0.1798	0.0139	0.0113	0.0252	0.0031		1.003
Unground Ca-Metallic	5C, 805C		0.1036	0.0813	0.0342	0.2191	0.0291	0.0113	0.0404	0.0039		1.069
Unground Ca-Fiber	85C,885C,985C,D5C,F5C,T5C		0.0626	0.0800	0.0358	0.1784	0.0135	0.0113	0.0248	0.0031		1.000
Buried Ca-Metallic	45C, 846C		0.0876	0.0809	0.0354	0.2039	0.0543	0.0113	0.0656	0.0041		1.058
Buried Ca-Fiber	845C,856C,956C,D45C, F45C,T45C		0.0585	0.0816	0.0367	0.1768	0.0144	0.0113	0.0257	0.0031		1.041
Submarine Ca-Metallic	6C, 806C		0.0860	0.0814	0.0366	0.2040	0.0150	0.0113	0.0263	0.0035		1.054
Submarine Ca-Fiber	86C,886C,D6C,F6C,T6C		0.0860	0.0814	0.0355	0.2029	0.0150	0.0113	0.0263	0.0035		1.000
Intrbld Ntwk-Metallic	52C		0.0661	0.0785	0.0340	0.1786	0.0320	0.0113	0.0433	0.0034		1.069
Intrbld Ntwk-Fiber	852C,D52C,F52C,T52C		0.0661	0.0785	0.0340	0.1786	0.0320	0.0113	0.0433	0.0034		1.000
Conduit Systems	4C, 84C, 94C		0.0242	0.0877	0.0401	0.1520	0.0028	0.0113	0.0141	0.0025		1.044
Aerial Drop	22C		0.0917	0.0797	0.0338	0.2052	0.0571	0.0113	0.0684	0.0042		1.061
Buried Drop	45C		0.0876	0.0809	0.0354	0.2039	0.0543	0.0113	0.0656	0.0041		1.058

13	Total Investment	SUM(C117 C151)
14	Subtotal Levelized Monthly Cost	Sum Cost (Column V)
15	Levelized Monthly Computer Sys Cost	
16	Levelized Monthly Disbributing Frame Cost	
17	Levelized Monthly TIRKS Cost	(((0.0052*(1+$R$111)*$C121)/12)*$V120)
18	Total Levelized Monthly Cost	SUM(V154 V157)

SECTION 5

SECTION 5

FLORIDA UNBUNDLED LOOPS

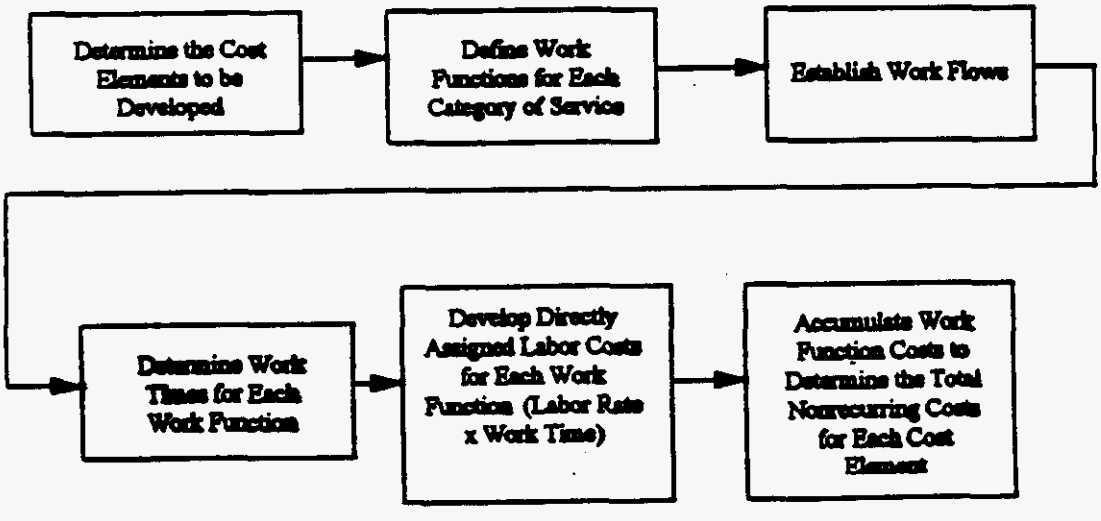
COST DEVELOPMENT - NONRECURRING

Nonrecurring costs are one-time costs incurred as a result of provisioning, installing, disconnecting and completion of orders initiated by a customer request for the Unbundled Analog Loops. The Nonrecurring Cost Study is performed to determine the service order, provisioning and disconnect costs associated with the cost elements listed below. Calculations for the nonrecurring costs are included in this section.

Figure 7-1 shows a generalized flow of the steps necessary for developing nonrecurring costs. Each part of this flow will be explained in more detail in this section.

Figure 7-1

Generalized Flow Diagram for Developing Nonrecurring Costs



The first step in developing nonrecurring costs is to determine the cost elements to be studied. Each cost element is then described by all of the individual work functions required to provision the element. An example of a work function is the designing of a circuit in the Circuit Provisioning Group.

The work functions required to provide the Unbundled Analog Loops can be grouped into four categories. These are:

1) Service Order
2) Engineering
3) Connect and Test
4) Technician Travel Time

Work functions included in these categories range from clerical activities to installation activities.

The next step in developing nonrecurring costs requires that Company subject matter experts identify the work functions involved in the provisioning of the Unbundled Analog Loops (an example of a work function is making a cross-connect in the central office). These work functions are then used to describe the flow of work within the various work centers involved in provisioning the element.

The next step in the development of nonrecurring costs is to determine work times for each work function associated with the nonrecurring costs of the Unbundled Analog Loops. The work times of the various work groups are determined from Subject Matter Expert inputs. Each work time estimate is made by a subject matter expert who thoroughly understands how each activity is done.

A spreadsheet model is used to incorporate the specific work functions and labor rates. In order to arrive at the nonrecurring cost for the element studied, the work times for each work function required is multiplied by the appropriate labor rate. The labor inflation factors (LIF) are used to bring the labor rate to the study period. The levelized labor rate is expressed on a per minute basis, as are the worktimes. The labor rates and the labor inflation factors are shown in Section 7. Next, the individual work function costs are accumulated into the total cost for the cost element studied.

To recognize cost reductions on orders with loops, costs are calculated separately for the first and additional system and/or interface. "First" refers to the first item on a service order. "Additional" costs are the incremental costs of providing one or more duplicates of the item on the same service order at the same time as the first.

The basic process by which nonrecurring costs are calculated consists of combining unit work times with hourly costs of each specific service category. These labor times, and service order related work times, are multiplied by the directly assigned labor rates for the work groups performing the activities. Disconnect costs are calculated in the same manner, utilizing work functions, work times, and labor rates. However, a disconnect factor associated with the projected location life of the service is applied to the disconnect cost. The disconnect factor inflates the labor cost to the period of the future disconnect, discounts these

costs to the present (since the money is received up-front) and adjusts for the income tax effect due to the difference in time between the receipt of money and the disconnect expense. The disconnect cost is added to the installation cost to develop the total nonrecurring cost.

The following workpapers reflect the cost development.

SUMMARY OF NONRECURRING COSTS

STATE: FLORIDA
WORKPAPER: 700
PAGE: 1 OF 1
DATE: May-96

2 WIRE ANALOG VOICE GRADE LOOP

(1996-1998 Level Incremental Costs at 13.2% Cost of Money)

	A	B	C	D
1	DESCRIPTION	SOURCE	FIRST	ADDTL
2				
3	Service Order	WP750 Col G LN8		
4				
5	Engineering	WP750 Col G LN10 and LN12		
6				
7	Connect & Test	WP750 Col G LN14 thrU LN18		
8				
9	Technician Travel Time	LN20		
10				
11				
12	Total Nonrecurring Cost	Sum of L3, L5, L7, L9		
13				
14				
15				
16				
17				
18				
19				
20				

DEVELOPMENT OF NONRECURRING COST
2 WIRE ANALOG VOICE GRADE LOOP

LEVEL 1996 - 1998 DIRECTLY ASSIGNED

STATE: FLORIDA
WORKPAPER: 750
PAGE: 1 OF 1
DATE: May-96

	(A)		(B)		(C)	(D)		(E)		(F)		(G)	
	INSTALL WORKTIMES (MINS)		DISCONNECT WORKTIMES (MINS)		LEVELIZED LABOR	INSTALL COST (A*C)		DISCONNECT COST (B*C)		DISCOUNTED DISCONNECT COST (E*DOF)		(D+F)*(1+GRT) TOTAL	
DESCRIPTION	FIRST	ADDTL	FIRST	ADDTL	RATE	FIRST	ADDTL	FIRST	ADDTL	FIRST	ADDTL	FIRST	ADDTL
ICSC (SVC ORD CONTROL)					$0.6800								
FACS(LOOP ASGNT)					$0.5553								
CPG(DESIGN)					$0.6109								
NETWORK ADMIN					$0.5839								
NTEL(CO ACTION)					$0.6940								
SSIM(CONN & TEST)					$0.7359								
SSIM (TRAVEL)					$0.7359								
TOTAL NONRECURRING COST													

F18G01Q 00218

SUMMARY OF NONRECURRING COSTS

STATE: FLORIDA
WORKPAPER: 800
PAGE: 1 OF 1
DATE: May-96

4 WIRE ANALOG VOICE GRADE LOOP

(1996-1998 Level Incremental Costs at 13.2% Cost of Money)

	A	B	C	D
1	DESCRIPTION	SOURCE	FIRST	ADDTL
2				
3	Service Order	WP850 Col G LN8		
4				
5	Engineering	WP850 Col G LN10 and LN12		
6				
7	Connect & Test	WP850 Col G LN14 thrU LN18		
8				
9	Technician Travel Time	LN20		
10				
11				
12	Total Nonrecurring Cost	Sum of L3, L5, L7, L9		
13				
14				
15				
16				
17				
18				
19				
20				

F18G01Q 00219

DEVELOPMENT OF NONRECURRING COST
4 WIRE ANALOG VOICE GRADE LOOP

LEVEL 1998 – 1998 DIRECTLY ASSIGNED

STATE: FLORIDA
WORKPAPER: 850
PAGE: 1 OF 1
DATE: May-96

		(A)		(B)		(C)	(D)		(E)		(F)		(G)	
		INSTALL WORKTIMES (MINS)		DISCONNECT WORKTIMES (MINS)		LEVELIZED LABOR	INSTALL COST (A*C)		DISCONNECT COST (B*C)		DISCOUNTED DISCONNECT COST (E*DDF)		(D+F)*(1+GRT)	
	DESCRIPTION	FIRST	ADDTL	FIRST	ADDTL	RATE	FIRST	ADDTL	FIRST	ADDTL	FIRST	ADDTL	TOTAL FIRST	TOTAL ADDTL
8	ICSC (SVC ORD CONTROL)					$0.6800								
10	FACS(LOOP ASGNT)					$0.5553								
12	CPG(DESIGN)					$0.6109								
14	NETWORK ADMIN					$0.5839								
16	NTEL(CO ACTION)					$0.6940								
18	SSIM(CONN & TEST)					$0.7359								
20	SSIM (TRAVEL)					$0.7359								
23	TOTAL NONRECURRING COST													

F18G01Q 00220

	LABOR COST	RTU FEE COST	TOTAL
2 WIRE ISDN UNBUNDLED LOOP - FIRST	A		B
USOC: ITEM NUMBER: 1 APPLICABLE? YES			
8 INITIAL INSTALLATION			
9 SUBSEQUENT INSTALLATION			
10 ADD/CHANGE			
11 DISCONNECT W/CUSTOMER SERVICE			
12 DISCONNECT W/O CUSTOMER SERVICE			
13 2 WIRE ISDN UNBUNDLED LOOP - ADDITIONAL			
14 USOC: ITEM NUMBER: 2 APPLICABLE? YES			
15 INITIAL INSTALLATION			
16 SUBSEQUENT INSTALLATION			
17 ADD/CHANGE			
18 DISCONNECT W/CUSTOMER SERVICE			
19 DISCONNECT W/O CUSTOMER SERVICE			

2 WIRE ISDN UNBUNDLED LOOP - FIRST

	USOC:	ITEM NUMBER: 1	A LABOR EFFORT HOURS	B LABOR RATE	C FEN FACTOR	D GRT FACTOR	E BOC FACTOR	F DISCONNECT DISCOUNT FACTOR	G NONRECURRING COST
	ICSC		23YY						
11	INITIAL INSTALLATION			38.30	1.0960	1.0152	1.0000		
12	SUBSEQUENT INSTALLATION			38.30	1.0960	1.0152	1.0000		
13	ADD/CHANGE			38.30	1.0960	1.0152	1.0000		
14	DISCONNECT W/SYSTEM			38.30	1.0960	1.0152	1.0000	.8020	
15	DISCONNECT W/O SYSTEM			38.30	1.0960	1.0152	1.0000	.8020	
16	CXT PROVISIONING CENTER		CPC						
17	INITIAL INSTALLATION			34.41	1.0960	1.0152	1.0000		
18	SUBSEQUENT INSTALLATION			34.41	1.0960	1.0152	1.0000		
19	ADD/CHANGE			34.41	1.0960	1.0152	1.0000		
20	DISCONNECT W/SYSTEM			34.41	1.0960	1.0152	1.0000	.8020	
21	DISCONNECT W/O SYSTEM			34.41	1.0960	1.0152	1.0000	.8020	
22	OUTSIDE WORK GRP DED SPEC S		DSS						
23	INITIAL INSTALLATION			41.45	1.0960	1.0152	1.0000		
24	SUBSEQUENT INSTALLATION			41.45	1.0960	1.0152	1.0000		
25	ADD/CHANGE			41.45	1.0960	1.0152	1.0000		
26	DISCONNECT W/SYSTEM			41.45	1.0960	1.0152	1.0000	.8020	
27	DISCONNECT W/O SYSTEM			41.45	1.0960	1.0152	1.0000	.8020	
28	FACILITIES ASSIGNMENT		FACS						
29	INITIAL INSTALLATION			31.28	1.0960	1.0152	1.0000		
30	SUBSEQUENT INSTALLATION			31.28	1.0960	1.0152	1.0000		
31	ADD/CHANGE			31.28	1.0960	1.0152	1.0000		
32	DISCONNECT W/SYSTEM			31.28	1.0960	1.0152	1.0000	.8020	
33	DISCONNECT W/O SYSTEM			31.28	1.0960	1.0152	1.0000	.8020	
34	OUTSIDE PLANT ENGINEERING		FG30						
35	INITIAL INSTALLATION			45.26	1.0960	1.0152	1.0000		
36	SUBSEQUENT INSTALLATION			45.26	1.0960	1.0152	1.0000		
37	ADD/CHANGE			45.26	1.0960	1.0152	1.0000		
38	DISCONNECT W/SYSTEM			45.26	1.0960	1.0152	1.0000	.8020	
39	DISCONNECT W/O SYSTEM			45.26	1.0960	1.0152	1.0000	.8020	

NONRECURRING LABOR COST CALCULATIONS

2 WIRE ISDN UNBUNDLED LOOP - FIRST

	USOC	ITEM NUMBER:	1 A LABOR EFFORT HOURS	B LABOR RATE	C FEN FACTOR	D GRT FACTOR	E BOC FACTOR	F DISCONNECT DISCOUNT FACTOR	G NONRECURRING COST
	CONTROL OUTSIDE WORK-SPEC S	NICS							
11	INITIAL INSTALLATION			33.72	1.0960	1.0152	1.0000		
12	SUBSEQUENT INSTALLATION			33.72	1.0960	1.0152	1.0000		
13	ADD/CHANGE			33.72	1.0960	1.0152	1.0000		
14	DISCONNECT W/SYSTEM			33.72	1.0960	1.0152	1.0000	.8020	
15	DISCONNECT W/O SYSTEM			33.72	1.0960	1.0152	1.0000	.8020	
16	CO ADMIN CKT.CARRIER & FAC	NTEC							
17	INITIAL INSTALLATION			36.05	1.0960	1.0152	1.0000		
18	SUBSEQUENT INSTALLATION			36.05	1.0960	1.0152	1.0000		
19	ADD/CHANGE			36.05	1.0960	1.0152	1.0000		
20	DISCONNECT W/SYSTEM			36.05	1.0960	1.0152	1.0000	.8020	
21	DISCONNECT W/O SYSTEM			36.05	1.0960	1.0152	1.0000	.8020	
22	NETWORK PLUG-IN ADMINISTRAT	PICS							
23	INITIAL INSTALLATION			41.65	1.0960	1.0152	1.0000		
24	SUBSEQUENT INSTALLATION			41.65	1.0960	1.0152	1.0000		
25	ADD/CHANGE			41.65	1.0960	1.0152	1.0000		
26	DISCONNECT W/SYSTEM			41.65	1.0960	1.0152	1.0000	.8020	
27	DISCONNECT W/O SYSTEM			41.65	1.0960	1.0152	1.0000	.8020	
28	NETWORK SERVICES CLERICAL	SOP89							
29	INITIAL INSTALLATION			30.21	1.0960	1.0152	1.0000		
30	SUBSEQUENT INSTALLATION			30.21	1.0960	1.0152	1.0000		
31	ADD/CHANGE			30.21	1.0960	1.0152	1.0000		
32	DISCONNECT W/SYSTEM			30.21	1.0960	1.0152	1.0000	.8020	
33	DISCONNECT W/O SYSTEM			30.21	1.0960	1.0152	1.0000	.8020	
34	SPEC SVCS COORD & TESTING	SSC							
35	INITIAL INSTALLATION			36.41	1.0960	1.0152	1.0000		
36	SUBSEQUENT INSTALLATION			36.41	1.0960	1.0152	1.0000		
37	ADD/CHANGE			36.41	1.0960	1.0152	1.0000		
38	DISCONNECT W/SYSTEM			36.41	1.0960	1.0152	1.0000	.8020	
39	DISCONNECT W/O SYSTEM			36.41	1.0960	1.0152	1.0000	.8020	

NONRECURRING LABOR COST CALCULATIONS

2 WIRE ISDN UNBUNDLED LOOP - FIRST

USOC	ITEM NUMBER: 1	A LABOR EFFORT HOURS	B LABOR RATE	C FEN FACTOR	D GRT FACTOR	E BOC FACTOR	F DISCONNECT DISCOUNT FACTOR	G NONRECURRING COST

SUMMARY - ITEM NUMBER 1

11	INITIAL INSTALLATION	
12	SUBSEQUENT INSTALLATION	
13	ADD/CHANGE	
14	DISCONNECT W/SYSTEM	
15	DISCONNECT W/O SYSTEM	

2 WIRE ISDN UNBUNDLED LOOP - ADDITIONAL

	USOC.	ITEM NUMBER:	2 A LABOR EFFORT HOURS	B LABOR RATE	C FEN FACTOR	D GRT FACTOR	E BOC FACTOR	F DISCONNECT DISCOUNT FACTOR	G NONRECURRING COST
	ICSC		21YY						
11		INITIAL INSTALLATION		38.30	1.0960	1.0152	1.0000		
12		SUBSEQUENT INSTALLATION		38.30	1.0960	1.0152	1.0000		
13		ADD/CHANGE		38.30	1.0960	1.0152	1.0000		
14		DISCONNECT W/SYSTEM		38.30	1.0960	1.0152	1.0000	.8020	
15		DISCONNECT W/O SYSTEM		38.30	1.0960	1.0152	1.0000	.8020	
16	CKT PROVISIONING CENTER		CPC						
17		INITIAL INSTALLATION		34.41	1.0960	1.0152	1.0000		
18		SUBSEQUENT INSTALLATION		34.41	1.0960	1.0152	1.0000		
19		ADD/CHANGE		34.41	1.0960	1.0152	1.0000		
20		DISCONNECT W/SYSTEM		34.41	1.0960	1.0152	1.0000	.8020	
21		DISCONNECT W/O SYSTEM		34.41	1.0960	1.0152	1.0000	.8020	
22	OUTSIDE WORK GRP DED SPEC S		DSS						
23		INITIAL INSTALLATION		41.45	1.0960	1.0152	1.0000		
24		SUBSEQUENT INSTALLATION		41.45	1.0960	1.0152	1.0000		
25		ADD/CHANGE		41.45	1.0960	1.0152	1.0000		
26		DISCONNECT W/SYSTEM		41.45	1.0960	1.0152	1.0000	.8020	
27		DISCONNECT W/O SYSTEM		41.45	1.0960	1.0152	1.0000	.8020	
28	FACILITIES ASSIGNMENT		FACS						
29		INITIAL INSTALLATION		31.28	1.0960	1.0152	1.0000		
30		SUBSEQUENT INSTALLATION		31.28	1.0960	1.0152	1.0000		
31		ADD/CHANGE		31.28	1.0960	1.0152	1.0000		
32		DISCONNECT W/SYSTEM		31.28	1.0960	1.0152	1.0000	.8020	
33		DISCONNECT W/O SYSTEM		31.28	1.0960	1.0152	1.0000	.8020	
34	OUTSIDE PLANT ENGINEERING		PG30						
35		INITIAL INSTALLATION		45.26	1.0960	1.0152	1.0000		
36		SUBSEQUENT INSTALLATION		45.26	1.0960	1.0152	1.0000		
37		ADD/CHANGE		45.26	1.0960	1.0152	1.0000		
38		DISCONNECT W/SYSTEM		45.26	1.0960	1.0152	1.0000	.8020	
39		DISCONNECT W/O SYSTEM		45.26	1.0960	1.0152	1.0000	.8020	

2 WIRE ISDN UNBUNDLED LOOP - ADDITIONAL

	USOC	ITEM NUMBER:	A LABOR EFFORT HOURS	B LABOR RATE	C FEN FACTOR	D GRT FACTOR	E BOC FACTOR	F DISCONNECT DISCOUNT FACTOR	G NONRECURRING COST
		CONTROL OUTSIDE WORK-SPEC S NICS							
11		INITIAL INSTALLATION		33.72	1.0960	1.0152	1.0000		
12		SUBSEQUENT INSTALLATION		33.72	1.0960	1.0152	1.0000		
13		ADD/CHANGE		33.72	1.0960	1.0152	1.0000		
14		DISCONNECT W/SYSTEM		33.72	1.0960	1.0152	1.0000	.8020	
15		DISCONNECT W/O SYSTEM		33.72	1.0960	1.0152	1.0000	.8020	
16		CO ADMIN CKT,CARRIER & FAC NTEC							
17		INITIAL INSTALLATION		36.05	1.0960	1.0152	1.0000		
18		SUBSEQUENT INSTALLATION		36.05	1.0960	1.0152	1.0000		
19		ADD/CHANGE		36.05	1.0960	1.0152	1.0000		
20		DISCONNECT W/SYSTEM		36.05	1.0960	1.0152	1.0000	.8020	
21		DISCONNECT W/O SYSTEM		36.05	1.0960	1.0152	1.0000	.8020	
22		NETWORK PLUG-IN ADMINISTRAT PICS							
23		INITIAL INSTALLATION		41.65	1.0960	1.0152	1.0000		
24		SUBSEQUENT INSTALLATION		41.65	1.0960	1.0152	1.0000		
25		ADD/CHANGE		41.65	1.0960	1.0152	1.0000		
26		DISCONNECT W/SYSTEM		41.65	1.0960	1.0152	1.0000	.8020	
27		DISCONNECT W/O SYSTEM		41.65	1.0960	1.0152	1.0000	.8020	
28		NETWORK SERVICES CLERICAL SOP89							
29		INITIAL INSTALLATION		30.21	1.0960	1.0152	1.0000		
30		SUBSEQUENT INSTALLATION		30.21	1.0960	1.0152	1.0000		
31		ADD/CHANGE		30.21	1.0960	1.0152	1.0000		
32		DISCONNECT W/SYSTEM		30.21	1.0960	1.0152	1.0000	.8020	
33		DISCONNECT W/O SYSTEM		30.21	1.0960	1.0152	1.0000	.8020	
34		SPEC SVCS COORD & TESTING SSC							
35		INITIAL INSTALLATION		36.41	1.0960	1.0152	1.0000		
36		SUBSEQUENT INSTALLATION		36.41	1.0960	1.0152	1.0000		
37		ADD/CHANGE		36.41	1.0960	1.0152	1.0000		
38		DISCONNECT W/SYSTEM		36.41	1.0960	1.0152	1.0000	.8020	
39		DISCONNECT W/O SYSTEM		36.41	1.0960	1.0152	1.0000	.8020	

2 WIRE ISDN UNBUNDLED LOOP - ADDITIONAL

USOC:	ITEM NUMBER: 2	A LABOR EFFORT HOURS	B LABOR RATE	C FEN FACTOR	D GRT FACTOR	E BOC FACTOR	F DISCONNECT DISCOUNT FACTOR	G NONRECURRING COST

SUMMARY - ITEM NUMBER 2

11	INITIAL INSTALLATION	
12	SUBSEQUENT INSTALLATION	
13	ADD/CHANGE	
14	DISCONNECT W/SYSTEM	
15	DISCONNECT W/O SYSTEM	

SECTION 6

SECTION 6

FLORIDA UNBUNDLED LOOPS

SPECIFIC STUDY ASSUMPTIONS

The cost study for the Unbundled Loops for the state of Florida is based on incremental economic theory and assumptions, plus specific Network deployment strategies, first choice provisioning guidelines, and equipment purchasing information.

Cost study assumptions are as follows.

1. Forward-looking technology is represented in the following manner:

   - all feeder sections of the loop will be fiber placements
   - all distribution sections of the loop will include a mix of 22,24,26 gauge copper cable based on a projection of placement over the next five years

2. Utilization of cable segments is applied as follows:

	A	B Cable Pair/Strand Utilization	C Cable Pair/Strand Equivalent DS0 Circuits
18	copper (SLC)	utilization =	DS0 circuits
19	copper (feeder)	utilization =	DS0 circuit
20	copper (dist'n)	utilization =	DS0 circuit
21	fiber (feeder)	utilization =	DS0 circuits
22	fiber (dist'n)	utilization =	DS0 circuits

3. Study period is 1996 to 1998 based on 1995 investments and factors

4. The cost of money applied is 13.2%.

SECTION 7

SECTION 7

FLORIDA UNBUNDLED LOOPS

FACTORS AND LOADINGS

Following are the incremental annual cost factors, miscellaneous loadings and labor rates used in the 2-Wire Analog Voice Grade Loop, the 4-Wire Analog Voice Grade Loop, and the 2-Wire ISDN Digital Loop.

Florida Unbundled Loops

Factors and Loadings

Miscellaneous Loadings (see attached database worksheet)

4 Computer Regional Monthly Systems Cost

5 6 Distributing Frame Weighted Monthly Cost (2-wire)
(4-wire)

TIRKS Regional Annual Expense Factor	.0052
Sales Tax	.06

Annual Cost Factors: (see attached spreadsheet)

Gross Receipts Tax Factor	0.0152
Discounted Disconnect Factor	0.854007

1995 Directly Assigned Hourly Labor Rates

Customer Point of Contact (ICSC)	$38.30
CO Install & Maintenance (NTEL)	$39.09
Circuit Provisioning Group (CPG)	$34.41
Network Admin	$32.89
Facilties Assignment (FACS)	$31.28
Install & Mtce - Spec Svcs (SSIM)	$41.45
Outside Plant Engineering	$45.26
Spec Svcs (NICS)	$33.72
CO Admin Ckt, Carrier & Fac (NTEC)	$36.05
Network Planning & Eng (PICS)	$41.65
Network Services Clerical	$30.21
Special Svc Coord & Testing (SSC)	$36.41
Outside Work Group Ded Spec (DSS)	$41.45

Labor Inflation

Telco Eng	
Year 1	3.4%
Year 2	3.8%
Year 3	3.6%
Telco COE	
Year 1	3.2%
Year 2	3.5%
Year 3	3.4%

Investment Inplant Factors

A	B	C	D	E	F	G	H	I
RC	State	Description	%Nonexempt	%Exempt	%Telco Engr	%Telco Inst	%Labor-Contr	%Support
12C	FL	Aerial Cable - Metallic (Entrance Cable)						
22C	FL	Aerial Cable - Metallic						
248	FL	Aerial Cable - Metallic (Service Drop)						
45C	FL	Buried Cable - Metallic						
52C	FL	Intrabldg Ntwk Cable - Metallic						
548	FL	Buried Cable - Metallic (Service Drop)						
5C	FL	Underground - Metallic						
6C	FL	Submarine Cable - Metallic						
D12	FL	Aerial Cable - Non-Metallic (Entrance Cable)						
F12	FL	Aerial Cable - Non-Metallic (Entrance Cable)						
T12	FL	Aerial Cable - Non-Metallic (Entrance Cable)						
D22	FL	Aerial Cable - Non-Metallic (Distr)						
F22	FL	Aerial Cable - Non-Metallic (Feeder)						
T22	FL	Aerial Cable - Non-Metallic (Interofc)						
D45	FL	Buried Cable - Non-Metallic (Distr)						
F45	FL	Buried Cable - Non-Metallic (Feeder)						
T45	FL	Buried Cable - Non-Metallic (Interofc)						
D52	FL	Intrabldg Ntwk Cable - Non-Metallic (Distr)						
F52	FL	Intrabldg Ntwk Cable - Non-Metallic (Feeder)						
T52	FL	Intrabldg Ntwk Cable - Non-Metallic (Interofc)						
D5C	FL	Underground Cable - Non-Metallic (Distr)						
F5C	FL	Underground Cable - Non-Metallic (Feeder)						
C	FL	Underground Cable - Non-Metallic (Interofc)						
6C	FL	Submarine Cable - Non-Metallic (Distr)						
	FL	Submarine Cable - Non-Metallic (Feeder)						
T6C	FL	Submarine Cable - Non-Metallic (Interofc)						

dataname REVINCRE

1995 FLORIDA
ACCOUNT AVERAGE ANNUAL COST FACTORS
INCREMENTAL

* FOR USE IN SERVICE COST STUDIES ONLY *

Rev 10 May 96

	field_code	depreciation a	acic_com b	acic_inc tax c	cap_exp d	acic_misc e	acic_adval tax f	admin_dir g	acic_oper_exp h	acic_grt_comb i	tot_combined j	acic_grt_local k	tot_local l	acic_grt_tot m	tot_tot n
			13.2%		(a+b+c)				(e+f+g)	0.0152 x (d+h)	(d+h+i)	0.0152 x (d+h)	(d+h+k)	0.0152 x (d+h)	(d+h+m)
LAND	20C	0.0000	0.1118	0.0514	0.1632	0.0000	0.0113	0.0000	0.0113	0.0027	0.1772				
BUILDINGS	10C, 110C, 810C	0.0002	0.0986	0.0452	0.1740	0.0068	0.0113	0.0000	0.0182	0.0029	0.1951				
DIGTL CIRC-PAIR GAIN	257C,D257C,F257C	0.1134	0.0636	0.0288	0.2058	0.0089	0.0113	0.0000	0.0202	0.0034	0.2294				
POLES	1C, 811C	0.0871	0.0725	0.0325	0.1721	0.0279	0.0113	0.0000	0.0392	0.0032	0.2145				
AERIAL CA - METAL	22C, 12C, 802C	0.0917	0.0797	0.0338	0.2052	0.0571	0.0113	0.0000	0.0684	0.0042	0.2778				
AERIAL CA - FIBER	822C, 812C, 882C, 982C,D22C, F22C,T22C,D12C,F12C,T12C	0.0887	0.0784	0.0347	0.1798	0.0136	0.0113	0.0000	0.0252	0.0031	0.2081				
UNGROUND CA - METAL	5C, 805C	0.1038	0.0813	0.0342	0.2191	0.0291	0.0113	0.0000	0.0404	0.0039	0.2634				
UNGROUND CA - FIBER	85C,885C,985C,D5C,F5C,T5C	0.0826	0.0800	0.0358	0.1784	0.0135	0.0113	0.0000	0.0248	0.0031	0.2063				
BURIED CA - METAL	45C, 845C	0.0876	0.0808	0.0354	0.2039	0.0543	0.0113	0.0000	0.0656	0.0041	0.2736				
BURIED CA - FIBER	845C,858C,868C,D45C, F45C,T45C	0.0886	0.0818	0.0367	0.1788	0.0144	0.0113	0.0000	0.0257	0.0031	0.2056				
SUBMARINE CA-METAL	8C, 808C	0.0880	0.0814	0.0366	0.2040	0.0150	0.0113	0.0000	0.0263	0.0035	0.2338				
SUBMARINE CA-FIBER	88C,888C,D8C,F8C,T8C	0.0880	0.0814	0.0355	0.2029	0.0150	0.0113	0.0000	0.0263	0.0035	0.2327				
INTRBLD NTWK-METAL	52C	0.0861	0.0795	0.0340	0.1796	0.0320	0.0113	0.0000	0.0433	0.0034	0.2253				
INTRBLD NTWK-FIBER	852C,D52C,F52C,T52C	0.0861	0.0795	0.0340	0.1796	0.0320	0.0113	0.0000	0.0433	0.0034	0.2253				
CONDUIT SYSTEMS	4C, 84C, 94C	0.0242	0.0877	0.0401	0.1520	0.0028	0.0113	0.0000	0.0141	0.0025	0.1686				

NOTE Certain states in the BellSouth region (GA & NC) assess gross receipts tax only on "local" revenues. For those states, it is necessary to publish "local", "private line and toll", and "combined" factors. Beware that the definitions of "local" and "private line and toll" are defined by the taxing authority for gross receipts tax purposes and may vary from state to state according to tax law.

For those states which assess gross receipts tax on local, private line, and toll revenues, the gross receipts tax factor is based on the overall effective tax rate.

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FLORIDA

UNBUNDLED LOOP CHANNELIZATION SYSTEM AND CENTRAL OFFICE CHANNEL INTERFACE

COST STUDY DOCUMENTATION

SECTIONS A THRU 7

FLORIDA

UNBUNDLED LOOP CHANNELIZATION SYSTEM
AND
CENTRAL OFFICE CHANNEL INTERFACE

COST STUDY DOCUMENTATION

CONTENTS

SECTION A

SECTION A

FLORIDA UNBUNDLED LOOP CHANNELIZATION SYSTEM AND CENTRAL OFFICE CHANNEL INTERFACE

PROPRIETARY RATIONALE

The Florida Unbundled Loop Channelization System and Central Office Channel Interface Cost Study contains actual unit cost information for discrete cost elements. These costs reflect BellSouth's long run incremental cost of providing this element on a going forward basis. Public disclosure of this information would provide BellSouth's competitors with an advantage in that they would know the price or rate below which BellSouth could not provide the service. The data is valuable to competitors and potential competitors in formulating strategic plans for entry, pricing, marketing and overall business strategies concerning access services. This information relates to the competitive interests of BellSouth and disclosure would impair the competitive business of BellSouth.

Additionally, the study contains information which reflects vendor-specific prices negotiated by BellSouth. Public disclosure of this information would impair BellSouth's ability to contract for goods and/or services on favorable terms. For these reasons, the Florida Unbundled Loop Channelization System and Central Office Channel Interface Cost Study is considered proprietary.

SECTION 1

SECTION 1

FLORIDA UNBUNDLED LOOP CHANNELIZATION SYSTEM AND CENTRAL OFFICE CHANNEL INTERFACE

INTRODUCTION AND OVERVIEW

This Long Run Incremental Cost study for the Unbundled Loop Channelization System and Central Office Channel Interface in the state of Florida is being provided in response to Docket No. 950984-TP Order No. PSC-96-0444-FOF-TP Issued March 29, 1996.

The Unbundled Loop Channelization System and Central Office Channel Interface is an arrangement offered to the Alternative Local Exchange Companies (ALECs) for the purpose of channelizing multiple Digital Loop Carrier 1.544 Mbps channels on a non-concentrated or concentrated basis up to a maximum of 96 channels per system. These channels are only available for connection to Unbundled Access Loops, voice grade only. Included in this cost study and associated with the Unbundled Loop Channelization System is the Central Office Channel Interface. The Unbundled Loop Channelization System requires a Central Office Channel Interface for each channel of lesser (voice grade) capacity.

Recurring costs presented in this study are directly assigned, incremental and levelized so as to be appropriate for the 1996-1998 study period. Nonrecurring costs follow the same convention and represent 1996-1998 level costs also. These long-run incremental costs are developed by using 1995 level incremental loadings and annual cost factors based on 13.2% Cost of Money and directly assigned labor rates.

SECTION 2

SECTION 2

FLORIDA UNBUNDLED LOOP CHANNELIZATION SYSTEM AND CENTRAL OFFICE CHANNEL INTERFACE

DESCRIPTION OF STUDY PROCEDURES

This section describes the general principles for the development of costs supporting the Florida Unbundled Loop Channelization System and Central Office Channel Interface.

All costs are developed utilizing Long Run Incremental Cost methodology. In determining these costs, direct incremental costing techniques are used that are in accordance with accepted economic theory. Direct incremental costs are based on cost causation and include all of the costs directly caused by expanding production, or, alternately, costs that would be saved if the production levels were reduced. Costs are forward looking in nature because only future costs can be saved. Incremental costs are long run to insure that the time period studied is sufficient to capture all forward looking costs affected by the business decision. Shared and common costs are not incremental and therefore are not included. Incremental costs include both recurring (capital and operating expenses) and nonrecurring (service provisioning) costs. Incremental costs account for the expected change in cost to the firm resulting from a new service offering or a change in demand for an existing service.

THE DEVELOPMENT OF RECURRING COSTS

The monthly costs to BellSouth Telecommunications, Inc., resulting from the capital investments necessary to provide a service are called recurring costs. Recurring costs include capital and operating costs. While capital costs include depreciation, cost of money and income tax, operating costs are the expenses of maintenance and ad valorem and other taxes. These expenses contribute to the ongoing cost to the company associated with the initial capital investment. Recurring costs are developed using incremental economic study applications, representing a forward-looking view of technology and deployment.

The first step in developing an incremental study of recurring costs for the Unbundled Loop Channelization System and Central Office Channel Interface is to determine the forward-looking network architecture. Material prices for the equipment are defined. Next, account specific Telephone Plant Indices are applied, when necessary, to trend investments to the base study period. In-plant factors are applied to material prices to develop installed investments which include engineering and installation labor. The deployment probabilities, capacity, spare stock and utilization of the equipment are also considered.

Plant account specific Investment Inflation Factors are applied to the installed investments to trend the base year, or study year, investments to levelized amounts that are valid for a three to five year planning period. Appropriate loadings for land, building and miscellaneous common equipment and power are then applied.

Next, 1995 level Florida Intrastate Incremental Annual Cost Factors are used to calculate the direct cost of capital (in this case, 13.2%), ongoing maintenance and other operating expenses and taxes. These factors (specific factors for each USOA FRC) are applied to levelized investments by account code, yielding an annual cost per account code. These costs are then divided by twelve to arrive at a monthly cost per cost element.

THE DEVELOPMENT OF NONRECURRING COSTS

Nonrecurring costs are "one-time" costs incurred as a result of provisioning, installing, and disconnecting the Unbundled Loop Channelization System and Central Office Channel Interface. The first step in developing nonrecurring costs is to determine the cost elements related to the study. These cost elements are then described by all of the individual work functions required to provision the cost element. The work functions can be grouped into four categories. These are service order, engineering, connect and test, and technician travel time. The work function times, identified by subject matter experts, are used to describe the flow of work within the various work centers involved. Installation and provisioning costs are developed by multiplying the work time for each work function by the directly assigned labor rate for the work group performing the function.

Disconnect costs are calculated in the same manner, utilizing work functions, work times and labor rates. However, a disconnect factor associated with the projected location life of the cost element is applied to the disconnect cost. The disconnect factor inflates the labor cost to the period of the future disconnect, discounts these costs to the present, since the money is received up-front, and adjusts for the income tax effect due to the difference in time between the receipt of money and the disconnect expense. The disconnect cost is added to the installation cost to develop the total nonrecurring cost.

SECTION 3

SECTION 3

FLORIDA UNBUNDLED LOOP CHANNELIZATION SYSTEM AND CENTRAL OFFICE CHANNEL INTERFACE

SUMMARY OF RESULTS

This section contains a cost summary for both recurring and nonrecurring cost elements studied for the 1996-1998 Unbundled Loop Channelization System and Central Office Channel Interface for Florida.

FLORIDA UNBUNDLED LOOP CHANNELIZATION SYSTEM AND CENTRAL OFFICE CHANNEL INTERFACE

SUMMARY OF RESULTS

Line		Monthly Cost	Nonrecurring Cost First	Nonrecurring Cost Additional
1	Channelization System			
2				
3				
4				
5				
6	Central Office Channel Interface - Voice			

SECTION 4

SECTION 4

FLORIDA UNBUNDLED LOOP CHANNELIZATION SYSTEM AND CENTRAL OFFICE CHANNEL INTERFACE

COST DEVELOPMENT - RECURRING

This section defines the cost development of the recurring costs for the Florida Unbundled Loop Channelization System and Central Office Channel Interface.

Generally, economic cost development is outlined in Section 2. Network architecture is determined, the necessary equipment is identified, material prices are obtained, factors, utilization and loadings are applied and the result is levelized for the study period. Annual cost factors are applied to convert the investment to cost.

Recurring costs are developed for the system and for the voice grade feature activation. The system is a TR303 96 capacity digital loop carrier remote terminal. Since the system is located in the central office, bulk power is not required. The system cost includes the hardwired equipment and the common plug-ins. The Voice (Unbundled Exchange Access) Central Office Channel Interface is based on a Plain Old Telephone (POTS) plug-in. Since the interface cost element is per circuit and the plug-in serves two voice grade circuits, the monthly cost is divided by two.

The following workpapers develop the investment, convert the investment to monthly costs, and summarize the results.

UNBUNDLED LOOP CHANNELIZATION SYSTEM AND
CENTRAL OFFICE CHANNEL INTERFACE
COST SUMMARY

State: Florida
Workpaper: 100
Page: 1 OF 1
Date: May-96

Ln	DESCRIPTION	MONTHLY COST	SOURCE
1			
2	(CONCENTRATED AND NON-CONCENTRATED)		
3			
4	System - Capacity 96 Voice Grade Circuits	$	Wp200 Pg1 Ln 10 Col O
5			
6	Working Plug-in for 96 capacity system serves 2 POTS lines		
7	Cost per Circuit		Wp200 Pg2 Ln 10 Col C
8			
9			
10			
11			
12			
13			
14			
15	Note:		
16	Concentrated is Mode II.		
17	Non-concentrated is Mode I.		
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

UNBUNDLED LOOP CHANNELIZATION SYSTEM AND
CENTRAL OFFICE CHANNEL INTERFACE
MONTHLY UNIT COST DEVELOPMENT

State:	Florida
Workpaper:	200
Page:	1 OF 2
Date	May-96

RATE ELEMENT: System Capacity 96 Voice Grade Circuits

	A	B	C	D	ANNUAL COSTS										MONTHLY COST
					E=C*FACTOR	F=C*FACTOR	G=C*FACTOR	H=E+F+G	I=C*FACTOR	J=C*FACTOR	K=C*FACTOR	L=I+J+K	M=C*FACTOR	N=H+L+M	O=N/12
Ln	Description:	Account Code	Investment	Source	Depreciation	COM	Income Tax	Capital Expense	Maintenance	Ad Valorum Tax	TIRKS Exp.	Operating Expense	GRT	Total	
1															
2	Installed investment per	357C	$	Wp300 Pg1 Ln 30	$	$	$	$	$	$	$	$		$	$
3	96 capacity system														
4	(Mode I or Mode II)														
5															
6	Land	20C	$	Wp300 Pg1 Ln 33	$	$	$	$	$	$	$	$		$	$
7															
8	Buildings	10C	$	Wp300 Pg1 Ln 36	$	$	$	$	$	$	$	$		$	$
9															
10	Total		$		$	$	$	$	$	$	$	$	Total per Circui		
11															
12															
13	NOTE														
14	FACTOR = ACF Located in Wp201pg1														
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															

UNBUNDLED LOOP CHANNELIZATION SYSTEM AND
CENTRAL OFFICE CHANNEL INTERFACE
MONTHLY UNIT COST DEVELOPMENT

State: Florida
Workpaper: 200
Page: 2 OF 2
Date: May-96

RATE ELEMENT: Working Plug-in for 96 capacity system - Serves 2 POTS lines

					ANNUAL COSTS									MONTHLY COST
	A	B	C	D	E=C*FACTOR	F=C*FACTOR	G=C*FACTOR	H=E+F+G	I=C*FACTOR	J=C*FACTOR	K=C*FACTOR	L=I+J+K	M=C*FACTOR	N=H+L+M	O=N/12
Ln	Description:	Account Code	Investment	Source	Depreciation	COM	Income Tax	Capital Expense	Maintenance	Ad Valorum Tax	TIRKS Exp.	Operating Expense	GRT	Total	
1															
2	Installed investment	357C	$	Wp300 Pg2 Ln 24	$	$	$	$	$	$	$	$		$	$
3															
4	Land	20C		Wp300 Pg2 Ln 27	$	$	$	$	$	$	$	$		$	$
5															
6	Buildings	10C	$	Wp300 Pg2 Ln 30	$	$	$	$	$	$	$	$		$	$
7															
8	Total		$	Total Ln 2, 4, 6	$	$	$	$	$	$	$	$		$	$
9															
10	Total per Circuit		$	Ln 8 Col 0/2											
11															
12															
13	NOTE:														
14	FACTOR = ACF Located in Wp201pg1														
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															

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UNBUNDLED LOOP CHANNELIZATION SYSTEM AND
CENTRAL OFFICE CHANNEL INTERFACE
ANNUAL COST FACTORS

State: Florida
Workpaper: 201
Page: 1 OF 1
Date: May-96

Ln	Description	Code	Depreciation	COM	Inc. Tax	Cap. Expense	Maintenance	Adval. Tax	TIRKS Exp.	Opr. Expense	GRT	Total
1												
2	Digital Circuit	357C	0.1134	0.0638	0.0297	0.2069	0.0086	0.0113	0.0052	0.0251	0.0035	0.2355
3	Buildings	10C	0.0302	0.0986	0.0452	0.1740	0.0069	0.0113	0.0000	0.0182	0.0029	0.1951
4	Land	20C	0.0000	0.1118	0.0514	0.1632	0.0000	0.0113	0.0000	0.0113	0.0027	0.1772
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
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22												
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24												
25												
26												
27												
28												
29												
30												

UNBUNDLED LOOP CHANNELIZATION SYSTEM AND
CENTRAL OFFICE CHANNEL INTERFACE
Development of Investment

State Florida
Work Paper 300
Page 1 of 2
Date May 96

Ln	Description	Result		FRC	Source
1	**Material Price**				
2	Hardwired	$		357C	Network
3	Common Plug-Ins	$		357C	Network
4					
5	**Misc Material Loadings for Common Plug-Ins**		0.10		Network
6	Total Material Price for Common Plugs	$		357C	(1+Line 5)*Line 3
7					
8	**Telephone Plant Index**		1.00	357C	Network
9	Hardwired Material Price-Base Year	$		357C	Line 2*Line 8
10	Common Plug-In Material Price-Base Year	$		357C	Line 6*Line 8
11					
12	**In-Plant-Factors**				
13	Hardwired		1.50	357C	Network
14	Common Plug-Ins		1.25	357C	Network
15					
16	**Installed Investment**				
17	Hardwired	$		357C	Line 13*Line 9
18	Common Plugs	$		357C	Line 14*Line 10
19	2 DSX-1 Terminations (Installed/Utilized)	$		357C	Fundamental Investment Model
20	Total Installed Investment	$		357C	Line 17+Line 18+Line 19
21					
22	**Levelization Factor (Inflation)**		0.970	357C	Economic Analysis
23	Inflated Investment	$		357C	Line 20*Line 22
24					
25	**Utilization Factor**		1.00		Tariff Structure
26	Utilized/Inflated Circuit	$		357C	(Line 23)/Line 25
27					
28	**Misc. Common Equipment & Power Factor**		0.1202	357C	Economic Analysis
29	MCE&P Investment in CKT	$		357C	Line 26*Line 28
30	Total Investment in CKT	$		357C	Line 26+Line 29
31					
32	**Land Factor**		0.0030	20C	Economic Analysis
33	Land Investment	$			Line 30*Line 32
34					
35	**Building Factor**		0.0404	10C	Economic Analysis
36	Building Investment	$			Line 30*Line 35

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UNBUNDLED LOOP CHANNELIZATION SYSTEM AND
CENTRAL OFFICE CHANNEL INTERFACE
Development of Investment

State Florida
Work Paper 300
Page 2 of 2
Date May 96

Ln	Description	Result		FRC	Source
1	**Material Price**				
2	POTS Plug-Ins	$		357C	Network
3					
4	**Telephone Plant Index**		1.00	357C	Network
5	POTS Plug-In Material Cost-Base Year	$		357C	Line 2*Line 4
6					
7	**In-Plant-Factors**				
8	Deferrable Plug-Ins		1.17	357C	Economic Analysis
9					
10	**Installed Investment**				
11	POTS	$		357C	Line 5*Line 8
12					
13	**Levelization Factor (Inflation)**		0.970	357C	Economic Analysis
14	Inflated Investment	$		357C	Line 11*Line 13
15					
16	**Utilization Factor**		1.00	357C	Tariff Structure
17	Utilized/Inflated Circuit	$		357C	(Line 14)/Line 16
18					
19	**Spare Stock Factor**		0.0925	357C	Economic Analysis
20	Deferrable POTS Plugs	$		157C	Line 19*Line 17
21					
22	**Misc. Common Equipment & Power Factor**		0.1202	357C	Economic Analysis
23	MCE&P Investment in CKT	$		357C	(Line 17+Line 20)*Line 22
24	Total Investment in CKT	$		357C	Line 17+Line 20+Line 23
25					
26	**Land Factor**		0.003	20C	Economic Analysis
27	Land Investment	$		20C	Line 26*Line 24
28					
29	**Building Factor**		0.0404	10C	Economic Analysis
30	Building Investment	$		10C	Line 29*Line 24

SECTION 5

SECTION 5

FLORIDA UNBUNDLED LOOP CHANNELIZATION SYSTEM AND CENTRAL OFFICE CHANNEL INTERFACE

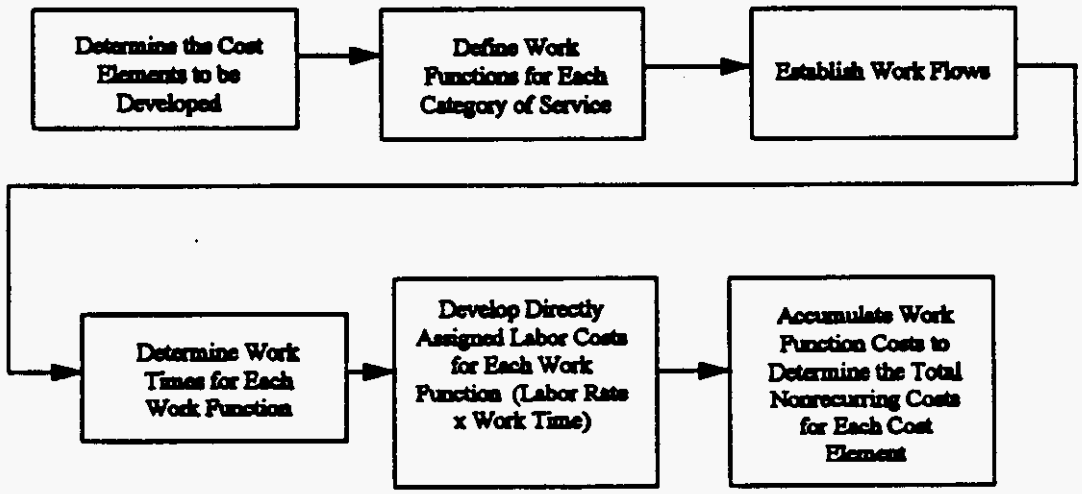
COST DEVELOPMENT - NONRECURRING

Nonrecurring costs are one-time costs incurred as a result of provisioning, installing, disconnecting and completion of orders initiated by a customer request for the Unbundled Loop Channelization System and Central Office Channel Interface. The Nonrecurring Cost Study is performed to determine the service order, provisioning and disconnect costs associated with the cost elements listed below. Calculations for the nonrecurring costs are included in this section.

Figure 7-1 shows a generalized flow of the steps necessary for developing nonrecurring costs. Each part of this flow will be explained in more detail in this section.

Figure 7-1

Generalized Flow Diagram for Developing Nonrecurring Costs



The first step in developing nonrecurring costs is to determine the cost elements to be studied. Each cost element is then described by all of the individual work functions required to provision the element. An example of a work function is the designing of a circuit in the Circuit Provisioning Group.

The work functions required to provide the Unbundled Loop Channelization System and Central Office Channel Interface can be grouped into four categories. These are:

1) Service Order
2) Engineering
3) Connect and Test
4) Technician Travel Time

Work functions included in these categories range from clerical activities to installation activities.

The next step in developing nonrecurring costs requires that Company subject matter experts identify the work functions involved in the provisioning of the Unbundled Loop Channelization System and Central Office Channel Interface (an example of a work function is making a cross-connect in the central office). These work functions are then used to describe the flow of work within the various work centers involved in provisioning the element.

The next step in the development of nonrecurring costs is to determine work times for each work function associated with the nonrecurring costs of the Unbundled Loop Channelization System and Central Office Channel Interface. The work times of the various work groups are determined from Subject Matter Expert inputs. Each work time estimate is made by a subject matter expert who thoroughly understands how each activity is done.

A spreadsheet model is used to incorporate the specific work functions and labor rates. In order to arrive at the nonrecurring cost for the element studied, the work times for each work function required is multiplied by the appropriate labor rate. The labor inflation factors (LIF) are used to bring the labor rate to the study period. The levelized labor rate is expressed on a per minute basis on workpapers 750 and 850, as are the worktimes. The labor rates and the labor inflation factors are shown in Section 7. Next, the individual work function costs are accumulated into the total cost for the cost element studied.

To recognize cost reductions on orders with multiple systems and/or interfaces, costs are calculated separately for the first and additional system and/or interface. "First" refers to the first item on a service order. "Additional" costs are the incremental costs of providing one or more duplicates of the item on the same service order at the same time as the first.

The basic process by which nonrecurring costs are calculated consists of combining unit work times with hourly costs of each specific service category. These labor times, and service order related work times, are multiplied by the directly assigned labor rates for the work groups performing the activities. Disconnect costs are calculated in the same manner, utilizing work functions, work times, and labor rates. However, a disconnect factor

associated with the projected location life of the service is applied to the disconnect cost. The disconnect factor inflates the labor cost to the period of the future disconnect, discounts these costs to the present (since the money is received up-front) and adjusts for the income tax effect due to the difference in time between the receipt of money and the disconnect expense. The disconnect cost is added to the installation cost to develop the total nonrecurring cost.

The following workpapers reflect the cost development.

SUMMARY OF NONRECURRING COSTS

STATE: FLORIDA
WORKPAPER: 700
PAGE: 1 OF 1
DATE: May-96

UNBUNDLED LOOP CHANNELIZATION SYSTEM, PER SYSTEM

(1996-1998 Level Incremental Costs at 13.2% Cost of Money)

			A	B
1	DESCRIPTION	SOURCE	FIRST	ADDTL
2				
3	Service Order	WP750 Col G LN7 THRU LN19		
4				
5	Engineering	WP750 Col G LN25 and LN27		
6				
7	Connect & Test	LN31		
8				
9	Travel Technician Time	NA	NA	NA
10				
11				
12	Total Nonrecurring Cost	Sum of L3, L5, L7, L9		
13				
14				
15				
16				
17				
18				
19				
20				

DEVELOPMENT OF NONRECURRING COST
UNBUNDLED LOOP CHANNELIZATION SYSTEM, PER SYSTEM

STATE: FLORIDA
WORKPAPER: 750
PAGE: 1 OF 1
DATE: May-96

LEVEL 1996 - 1998 DIRECTLY ASSIGNED

	(A)		(B)		(C)	(D)		(E)		(F)		(G)	
	INSTALL WORKTIMES (MINS)		DISCONNECT WORKTIMES (MINS)		LEVELIZED	INSTALL COST (A*C)		DISCONNECT COST (B*C)		DISCOUNTED DISCONNECT COST (E*DDF)		(D+F)*(1+GRT)	
DESCRIPTION	FIRST	ADDTL	FIRST	ADDTL	LABOR RATE	FIRST	ADDTL	FIRST	ADDTL	FIRST	ADDTL	TOTAL FIRST	TOTAL ADDTL
SERVICE ORDER													
ICSC					$0.6800								
ISC TEAM MEMBER					$0.7011								
ISC CLERICAL SUPPORT					$0.5244								
CPG					$0.6109								
NETWORK ADMIN					$0.5839								
NTEL					$0.6940								
NETWORK PLAN/ENG					$0.9738								
ENGINEERING													
PICS					$0.7427								
CPG					$0.6109								
CONNECT & TEST													
NTEL					$0.6940								
TOTAL NONRECURRING COST													

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SUMMARY OF NONRECURRING COSTS

STATE: FLORIDA
WORKPAPER: 800
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UNBUNDLED LOOP CHANNELIZATION SYSTEM
CENTRAL OFFICE CHANNEL INTERFACE – VOICE

(1996–1998 Level Incremental Costs at 13.2% Cost of Money)

	DESCRIPTION	SOURCE	A FIRST	B ADDTL
1				
2				
3	Service Order	WP850 Col G LN9		
4				
5	Engineering	WP850 Col G LN13		
6				
7	Connect & Test	WP850 Col G LN17 and LN19		
8				
9	Technician Travel Time	NA	NA	NA
10				
11				
12	Total Nonrecurring Cost	Sum of L3, L5, L7, L9		
13				
14				
15				
16				
17				
18				
19				
20				

DEVELOPMENT OF NONRECURRING COST
UNBUNDLED LOOP CHANNELIZATION SYSTEM
CENTRAL OFFICE CHANNEL INTERFACE – VOICE

STATE: FLORIDA
WORKPAPER: 850
PAGE: 1 OF 1
DATE: May-98

LEVEL 1998 – 1998 DIRECTLY ASSIGNED

		(A)		(B)		(C)	(D)		(E)		(F)		(G)	
		INSTALL WORKTIMES (MINS)		DISCONNECT WORKTIMES (MINS)		LEVELIZED	INSTALL		DISCONNECT		DISCOUNTED DISCONNECT		(D+F)*(1+GRT)	
	DESCRIPTION	FIRST	ADDTL	FIRST	ADDTL	LABOR RATE	COST (A*C) FIRST	ADDTL	COST (B*C) FIRST	ADDTL	COST (E*DCF) FIRST	ADDTL	TOTAL FIRST	TOTAL ADDTL
8	SERVICE ORDER													
9	PICS					$0.7427								
12	ENGINEERING													
13	PICS					$0.7427								
16	CONNECT & TEST													
17	NETWORK ADMIN					$0.5839								
19	NTEL					$0.6940								
22	TOTAL NONRECURRING COST													

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SECTION 6

SECTION 6

FLORIDA UNBUNDLED LOOP CHANNELIZATION SYSTEM AND CENTRAL OFFICE CHANNEL INTERFACE

SPECIFIC STUDY ASSUMPTIONS

The cost study for the Unbundled Loop Channelization System and Central Office Channel Interface for the state of Florida is based on incremental economic theory and assumptions, plus specific Network deployment strategies, first choice provisioning guidelines, and equipment purchasing information.

Cost study assumptions are as follows.

1. The cost of money is 13.2%, the forward-looking incremental cost to the firm.

2. The equipment that will be deployed is an AT&T TR303, 96 capacity.

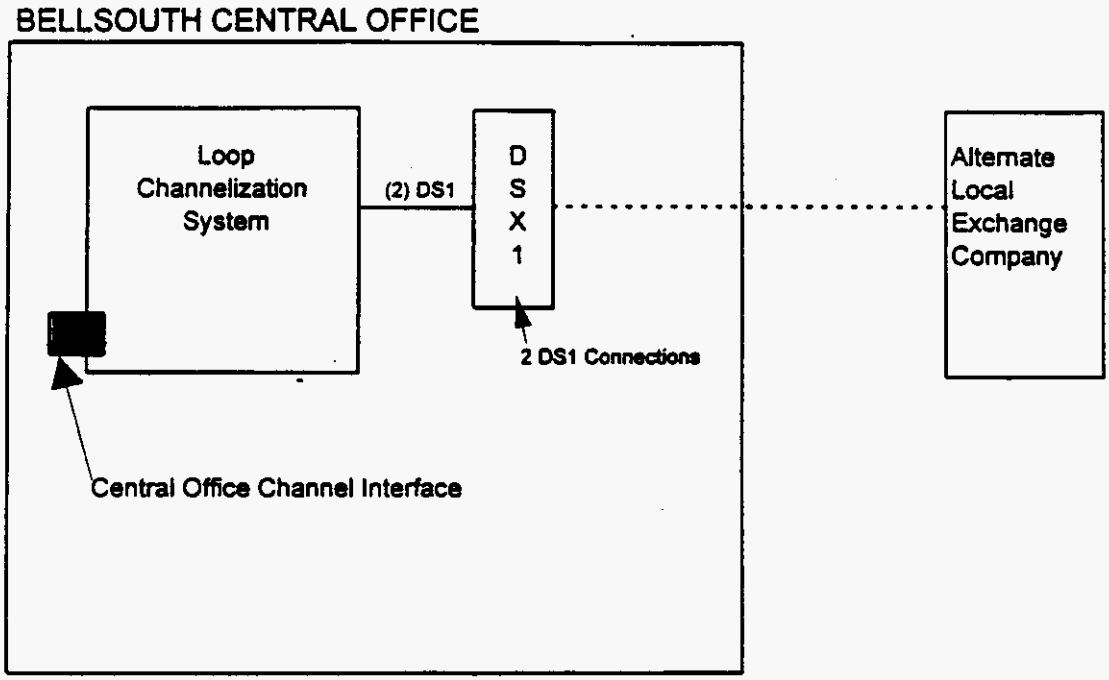
3. Only connection to Unbundled Exchange Access Loops, voice grade, will be allowed. Therefore, the deferrable plug-in is a voice grade Plain Old Telephone (POTS) plug-in.

4. Since the remote terminal is located in the central office, bulk power is not required.

5. The equipment will be predominantly concentrated at a 2:1 ratio. Two DSX-1 panel terminations are included.

A diagram of the architecture is found on the following page.

UNBUNDLED LOOP CHANNELIZATION SYSTEM AND CENTRAL OFFICE CHANNEL INTERFACE



SECTION 7

SECTION 7

FLORIDA UNBUNDLED LOOP CHANNELIZATION SYSTEM AND CENTRAL OFFICE CHANNEL INTERFACE

FACTORS AND LOADINGS

Following are the incremental annual cost factors, miscellaneous loadings and labor rates used in the Unbundled Loop Channelization System and Central Office Channel Interface cost study for Florida.

FLORIDA UNBUNDLED LOOP CHANNELIZATION SYSTEM AND CENTRAL OFFICE CHANNEL INTERFACE

FACTORS AND LOADINGS

Telphone Plant Index	357C	1.00
In Plant Factors	357C	
Hardwired		1.50
Common Plug-ins		1.25
Deferrable Plug-ins		1.17
Levelization Factor	357C	0.9700
Misc. Common Equipment and Power Factor	357C	0.1202
Gross Receipts Tax Factor		0.0152
Discounted Disconnect (DDF)		0.854007
Land Loading	20C	0.0030
Building Loading	10C	0.0404
Annual Cost Factors:		
Digital Circuit	357C	
Depreciation		0.1134
Cost of Money		0.0638
Income Tax		0.0297
Maintenance		0.0086
Ad Valorem Tax		0.0113
TIRKS Expense		0.0052
Gross Receipts Tax		0.0035
Land	20C	
Depreciation		0.0000
Cost of Money		0.1118
Income Tax		0.0514
Maintenance		0.0000
Ad Valorem Tax		0.0113
TIRKS Expense		0.0000
Gross Receipts Tax		0.0027
Building	10C	
Depreciation		0.0302
Cost of Money		0.0986
Income Tax		0.0452
Maintenance		0.0069
Ad Valorem Tax		0.0113
TIRKS Expense		0.0000
Gross Receipts Tax		0.0029

FLORIDA UNBUNDLED LOOP CHANNELIZATION SYSTEM AND CENTRAL OFFICE CHANNEL INTERFACE

FACTORS AND LOADINGS

1995 Directly Assigned Hourly Labor Rates

Customer Point of Contact (ICSC)	$38.30
ISC Team Member	$39.49
ISC Clerical Support	$29.54
CO Install & Maintenance (NTEL)	$39.09
Circuit Provisioning Center (CPG)	$34.41
Network Planning & Eng (PICS)	$41.65
Network Planning & Eng (ENG)	$54.61
Network Admin	$32.89

Labor Inflation

Telco Eng	
Year 1	3.4%
Year 2	3.8%
Year 3	3.6%
Telco COE	
Year 1	3.2%
Year 2	3.5%
Year 3	3.4%