BellSouth Telecommunications, Inc.
FPSC Dkt No. 960786-TL
Staff's 3rd Request for
Production of Documents
August 30, 2001
Item No. 19
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ATTACHMENT (One Page) PROPRIETARY



DOCUMENT NUMBER-DATE

FPSC-COMMISSION CLERK

COLLOCATION KEY & CARD COSTERAFT

I. Material costs - Key:		
Henel Cost		
l'ostage Cost		
Best (contractor) mark-up ordering charge - future projected		
cost, based on contract terms		
Total		
II. Meterial costs - Card:		
Material Cost per New Security Access Card	•	
Postage Cost per New Security Access Card		
Total		
III. Access Device - Card and key issued per person		I
Key Material Cost		
Key Postage Cost		
Key - Best (contractor) mark-up ordering charge - future		
projected cost, based on contract terms*		
Material Cost per New Security Access Card		
Postage Cost per New Security Access Card		
The following costs are common to cards and keys:		
Contractor coets:	!	
Annual contract Labor cost (3.5 people) (year 3000)		
1-Siemene and 2.5 Strategic employees (includes some		
overtime)	<u> </u>	
<u> </u>		
		•
Annual contract Labor cost (5.0 people) (year 3981)	ı	
1-Siemene and 4 Strategic employees		
Annuel Productive Contract Labor Hours per Person = 1980		
The state of the s		
B&T Heedsount:		Headcount
JG58 (CURRENT)		0.0
JG58 (PROPOSED)		1.0

hen keys ordered exceed 22.860 enmusity, this mark-up applies.

PROPRIETARY

Not for Buschesons Dutable Bedisorth

Sucent by Writies Agreement.

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ATTACHMENT TWO (Three Pages) PROPRIETARY



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		#	14D cable «Maple» • 160% - 30% • 62%	1	1			L	Ι.	L	J	L	1.	1	1	i
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	+	-ti	Note & Pers male 3, 18% of DE3 cable to	736A 62% =	734D	L			 				4	·		1
	+	- 43	7MA DO = 1227 , 7340 OD = 0 236"		1	T		L	1	1	1	1	1	l	Į.	1
	1-	-4	3A 00 - 122 - 150 00 - 0 - 0	<u></u>		1				l	I	1	I	I	1	1
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	Т	- 1	734D gross coption = 230 x 236 x 4667 s	<u> </u>				d		1	1		1	1 '	1	4
	1-	- 1	Calif rank groot coelen * 30 a 10 a 300 c Lai X * bala caldan, 300 * (\$207) (\$67)	7	1			ļ	-	·	† · · · ·	· · · -	·	ł ·	1	1
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	T-		Corn 88 Med per 25 2-way dilb			·			+···	 	+		t- ·	1	ł·	1
3	┪-		Chr - 1 and only bles @5 to m.		_l			 	 				ł ·	1	ì .	J
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¥	1		Chy 50 C bridging dan (\$ \$42 cm = \$1.00	+	†· ·	1	7	T		1	1		I	1	1	1
2	.1		Chy SOC bridging days (\$1 00 m = \$1 00		+	 	t	†	†	1	T	1	1	1		
3	1	_	Total DGO Coon 8th cost = \$6.41	· L			 	+	+	1	f · -	-	t -	1	1	1
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	+-		Made 4 D61 and D63 POT Bay corrects 9	_t	-1	-I ···			1	1	1	1 .	i	I	1	1
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7	-Ţ		Note & D61 and D63 POT Bay currents of Day SED 40561-56 G1 79. Natural Bay Fr Day 1 ED-40167-51 G6 International Har	Marie 27 1467	=		+ · · · · · · · · · · · · · · · · · · ·	-+	1	1	1		1	1	1	1
-	-f		Ob. 1 ED-EC167-31 G6 Wheresteed Her	- B17	12 30	1				ł -	ł	ł	1	1	1	1
3 -	1		Take Bay cost = \$1,200 1A	7		1	.1	1	1 -		1	į.	ł	1		1
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<u>.</u>	1	-	Note 2 5' cable rack - larget # 4 5"	1.	1		4	+ *	1	t	1	t	1	1	1	1
a	ŧ	-	Ob at 1 ED4C005-72 G1 @ \$107 20 as	• 1	1	1	4			+	t		1	i	1	1
3			Note 7 5' cable rath target 6' 6 5' Chy at 1 EDEC885-72 G1 @ \$107 20 on Chy at 1 EDEC885-72 G16 @ \$46 40 or	<u>.</u> [1	_	.1	ı		ļ	I	ł	1	ł	Į.	1
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-	- 1		Total = \$10 9000 +	1	1	-	1	I	ī	1 -	1	1 .	1.	1	1	1 .
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BellSouth Telecommunications, Inc.
FPSC Dkt No. 960786-TL
Staff's 3rd Request for
Production of Documents
August 30, 2001
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ATTACHMENT THREE (Five Pages) PROPRIETARY



FPSC Dkt No. 960786-TL Staff's 3rd Request for										•
Production of Documents	COLLOCATION	VIRTUAL	PHYSICAL.							
30-Aug-01		Inputs	inputs	Supporting	Info					
	Dh. and Callered and Calle Control City	D . E		 						
tem 21, Bates stamped page	Physical Collocation - Cable Support Struct	ure, Per Entrance Cable	•							
816, Line 18	Investment per Foot	,								
,	Cable Capacity			Note 7						
	Projected Actual Utilization	•		140(6.7						•
	Average Cable Length				,					
	Physical Collocation - Power, Per Ampere									
	Monthly Power Usage	•								
	Average Monthly Cost per KWH	•								
	Watts	•	•							,
	Rectifier Efficiency	•		The above for						
	Recaller Emplericy	f		The factor is	muia nas pe	en modified to inclu	de a factor of 66666			_
			•	This factor is	redniten to c	alculate commercia	l power consumption	pased upon the	e rating of the (C protection dev
		•	•							
				,						
	Physical Collocation - 2-Wire Cross Connec	cis								
	Trunk Distributing Frame		•						·	
	Material Price	,								
	Circuit Capacity									
	Projected Actual Utilization									
	Number Required	•					•			
	Connecting Block	•		•			3			
	Material Price									
	Circuit Capacity	:	•				•			
	Projected Actual Utilization	i		,						
	Number Required	1	•				•			
•	Cable	•	•		•					
em 23, Bates stamped page	Cable	•								
816, Line 39	Material Price per foot	į.								
,	Number Feet	•	•		•	,		,	,	
em 23, Bates stamped page	Number Feet									
	Circuit Connecti									
116, Line 40	Circuit Capacity		•							
	Projected Actual Utilization Cable Rack	1	•		•					,
	Material Price per foot	•								
	Number Feet	i								
	Circuit Capacity	•		Note,1			•			
	Projected Actual Utilization			•						
	Obversel Collegeber 4 Mars Cores Course									
	Physical Collocation - 4-Wire Cross Connec	is:	•				•			
	Trunk Distributing Frame	:								
	Material Price									
	Circuit Capacity	•	0					,		
	Projected Actual Utilization	•		•						
	Number Required	i •								·
	Connecting Block		•							
	Material Price									
	Circuit Capacity									•
	Projected Actual Utilization				ŧ					
	Number Required		,							•
	Cable			1	•					
	Material Price per foot	,		:						
	Number Feet			•						
	Circuit Capacity									

Staff's 3rd Request for										
Production of Documents	COLLOCATION	VIRTUAL	PHYSICAL							
30-Aug-01		Inputs	Inputs	Supporting	Into					
			~~~	····						
	Projected Actual Utilization									
	Cable Rack		,							
	Material Price per foot									
	Number Feet									
	Circuit Capacity			Note 1						
	Projected Actual Utilization	-				•				
		VIRTUAL	PHYSICAL							
	Physical Collocation - DS1 Cross Connec	ls		*						
	DSX-1 Panel Provided by anoth	ner oroup								
	Cable	g p	i							
	Material Price per foot	•		•						
	Number Feet	•		•						
	Additional Feet if Repeater	*								
		•								
	Circuit Capacity	•								
	Projected Actual Utilization									
	Percent Repeater Required									
	Cable Rack				·	•		•		
	Material Price per foot									
	Number Feet									
•	Additional Feet if Repeater		,		•	•		*		
n 25, Bates stamped page	•		•		•					
6, Line 62	Circuit Capacity			Note 2						
-,	Projected Actual Utilization			110.6 2						
•	Percent Repeater Required		•							
	Repeater Bay									
	Repeater pay	4								
	Material Price									
	Circuit Capacity									
	Projected Actual Utilization									•
,	Percent Required									
	Repeater Shelf									
	Material Price	·			•		•			
	Circuit Capacity			•						
•	Projected Actual Utilization									
•	Percent Required	*	,		•				•	
	Repealer	•		-						
	Material Price			•						
•	Circuit Capacity	,	•		,				,	
		1	<u>i</u>		4					
	Projected Actual Utilization			•					•	•
-	Percent Required	, .			,					
		,	,						•	
	Physical Collocation - DS3 Cross Connect				•	•	•	,	•	,
	DSX-3 Panel Provided by anoth	er group		•			*			•
	Cable									
	Material Price per foot	i		Note 3	t					1
	Connector Material Price per cable	1								
	Number Feel	į		•						
	Additional Feet if Repeater	1								
	Number Cables per Circuit	•			4					
		,								
	Circuit Capacity	1								
•	Projected Actual Utilization	,							1	
	Percent Repeater Required	,			•				,	
	Cable Rack			•			•			,
26, Bates stamped page		1		•						
7, Line 71	Material Price per foot									
	Number Feet		•							

FPSC Dkt No. 960786-TL Staff's 3rd Request for				1	
Production of Documents	COLLOCATION	VIRTUAL	PHYSICAL	•	
30-Aug-01	<u>oderownou</u>	Inputs	Inputs	Supporting Info	
	Additional Feet if Repeater	<del></del>			
,	Circuit Capacity			Note 4	
	Projected Actual Utilization				•
	Percent Repeater Required			·	
	Repeater Bay				
	Material Price	•			
	Circuit Capacity Projected Actual Utilization			•	•
	Percent Required			i e	
	r orcant required			1	
	-	1			•
	Repeater Shelf		PHYSICAL	,	
	Material Price				_
	Circuit Capacity				
	Projected Actual Utilization				
	Percent Required				•
	Repeater	,			
	Material Price				
	Circuit Capacity	•		1	
•	Projected Actual Utilization Percent Required			!	
	Percent Required			•	
tem 23, Bates stamped page		1	*	•	•
1842 P	Physical Collocation - 2-Wire POT Bay				
	POT Bay	•		•	
	Material Price	'		Note 5	
	Circuit Capacity	1		56 blocks per bay, 25 ckts per block	
·	Projected Actual Utilization	•	• -	•	·
	Termination Block w/Bridging Clips	1			
	Material Price		•	Note 5	
	Circuit Capacity	1		•	
•	Projected Actual Utilization	•	•		•
			•	•	
Item 23, Bates stamped page 1842 F	Physical Collocation - 4-Wire POT Bay				
	POT Bay			•	
*	Material Price	1	•	Note 5	•
•	Circuit Capacity	:	•	56 blocks per bay, 12 5 ckts per block	
	Projected Actual Utilization	•		, r r r r r r r r r r r r r r r r r r r	
•	Termination Block w8ridging Clips	•	•		
•	Material Price	•	•	Note 5	•
	Circuit Capacity				•
	Projected Actual Utilization				
			F		
Item 23, Bates stamped page	Physical Collegeton - DC1 BOT B-11	1		Note 6	
	Physical Collocation - DS1 POT Bay			14010 0	
-	POT Bay Material Price	•		i .	
	Circuit Capacity			12 DS1 POT shelves per bay, 84 ckts per shelf	
-	Projected Actual Utilization	•	1	in and it are are an analysis a same has a said.	
•	POT Bay Shelf	•		•	
	Material Price	•		•	•
	Circuit Capacity	1		•	
•	Projected Actual Utilization	•		,	•
•	POT Bay Module			· · · · · · · · · · · · · · · · · · ·	

FPSC Dkt No. 960786-TL Staff's 3rd Request for Production of Documents 30-Aug-01		VIRTUAL inputs	PHYSICAL .	<u>Supportin</u>	, g Info	,				,
	Material Price Circuit Capacity Projected Actual Utilization			,						
Item 23, Bates stamped page		•					•			•
1842	Physical Collocation - DS3 POT Bay POT Bay	r ,		Note 6	-	,				
	Material Price	•				•			•	
	Circuit Capacity Projected Actual Utilization	•		12 D\$3 POT	Shelves per b	ay, 32 circuits per	sheif			
	POT Bay Shelf	•	•		*	•	1	•	•	•
	Material Price	•	•				•			•
	Circuit Capacity Projected Actual Utilization	;			•	•			•	
	POT Bay Module	•	•		•	•	•	•	•	•
	Material Price Circuit Capacity									
	Projected Actual Utilization	•	•		•	•	•		•	
	•	•					•			<b>+</b>
		,								•
item 23, Bates stamped page	Note 1: Assume 26Ga 100 Pr 806A cable OD=0 56*			•			•			,
1816, Line 40	2' 6" Cable rack with max. 10"pileup	!								
	Capacity = 30/.56 x 10/0 56 = 54 x 18 = 972	cables	• •	•			•		•	•
	2wire Circuits = 972 x 100 = 97,200 4wire circuits = 972 x 100/2 = 48600	•				-	•			1
	, THIRD GICGIG - 372 x 100/x - 40000	, , , , , , , , , , , , , , , , , , ,	•		•	•		•	•	
tem 25, Bates stamped page	44						•			•
816, Line 62	Note 2: Assume 22Ga 616C 28 pair Cable 2' 6" Cable rack with max 10"pileup	OD = 0.64°	*		•	•	4	•	•	T.
	Capacity = 30/ 64 x 10/ 64 = 47 x 15 = 752 c	ables			•	•	;	•	•	
	DS1 Circuits = 752 x 14 = 10,528									
	•	•			•	•	•		•	•
	Note 3 DS3 cable pricing. BST standards									
	use 735A up to 250'. Beyond 250' use 734D. Assume an even distribution of cable									
	lengths from 100' to 455'. 10% beyond 455'									1
	require repeaters 90% less than 455'.  Cables between 100 and 250 = 150/355									
•	=42 3%. Cables between 250 and 455' =									
	205/355 = 57 7%									
	735A cable utilization ■ 423 x 90% = 38% 734D cable utilization = 100% - 38% = 62%	•	•		•	•	•		•	
	734D = \$.550/ft 735A = \$ 388/ft	•		,				•		;
	\$/ft=( 550)x( 62)+(.388)( 38)= \$ 488/ft									
	Note 4 from note 3, 38% of DS3 cable is 73	ISA, 62% is 734D				•	•			•
	735A OD = 122" , 734D OD = 0 236"			•						
	735A cross section = .122 x 122 = 0149 sq 734D cross section = 236 x 236 = 0557 sq		4		r	•				
	Cabl rack cross section = 236 x 236 = 0337 sq Cabl rack cross section = 30" x 10" = 300 sc			•						
	Let X = total cables; 300 = (62)(X)(0557) +			*						

Page 5 0801PODC XLS

FPSC Dkt No. Staff's 3rd Re Production of I	quest for	COLLOCATION	VIRTUAL Inputs		PHYSICAL Inputs		Supporting Info	•	,	•			
		034534X + 005662X = 300 040196X = 300 X = 7463 Capacity = 7463/2 = 3732 735A cables = .38 (7463) = 2836 734D cables = 62(7463) = 4627											
ltem 23, Bates sta 1842	7	Note 5: DSO POT Consists of following Qty - 1 universal 7" rack @ 5 Qty - 14 angle mtg bars @ Total POT Bay =				•					•	•	
	J~6	Conn Bik Mail per 25 2-wire ckts.  Oty - 1 89B mtg bkts @ \$  Qty . 1 66M1 Conn bik @ \$  Oty 50 C bridging chps @ \$  Total DSO Conn Bik cost = \$  Note 5 prices quoted from Alitel Supply 11/5	/98	ı									•
Item 23, Bates sta 1842	mped page	Note 6 DS1 and DS3 POT Bay consists of. Qty: 1ED-8C501-50 G1 7ft Netwik Bay Fram Qty 1 ED-6C157-31 G6 Interconnect Hardw Total Bay cost =	e @ :				-	•		* · · · · · · · · · · · · · · · · · · ·		:	
-	11	Note 7. 5" cable rack - length 9' 8.5" Oty of 1 ED4C685-72 G1 @ Oty of 1 ED4C685-72 G10 @ Total =						•	:				1

BellSouth Telecommunications, Inc.
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### ATTACHMENT FOUR (17 Pages) PROPRIETARY

Entire Document



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# ATTACHMENT (One Page) PROPRIETARY



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ကြ Price Detail				,
Contract No: Description: DOUBLE,SIDE	D.COM. DISTR			Item 1 of 1
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ADD 10% to BASIC FRAME COST TO COVER MISC. ASSOCIATED MARDWARE SUCH AS WIRE RINGS, BESIGNATION BOURDS, ETC.

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# ATTACHMENT (One Page) PROPRIETARY



27	<del></del>	2	POD Item No. 24 Attachment No. Page 1 of 1
			30.07
Price Details	<b>i</b>		
Contract No: Description:	n i maga na manying		Item 1 of 1
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	View product list:	Please Select ▼	5
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By initiating any El	ectronic Commerce transaction herein you are deemed to have accepted the	related to the purchase of goods from Electronic Commerce Rules of use	om ·
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PER TOM WEBER: ADD 10% to BASIC FRAME COST TO COVER MISC. ASSOCIATED HARDWARE SUCH AS WIRE RINGS, BESIGNATION BOURDS, ETC.

of SellSouth or any subsidiaries except

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### ATTACHMENT (One Page) PROPRIETARY



Contents: 2

Dated: 6/10/99 at 15:14

Bill Darwin /m3,mail3a 7/21/99 10:04

PEPLY

Subject: COST Request on DSX/D4

Creator: Rhonda E. Vitale /m2, mail2a 4 - +20 - 4500

Item 1

CC: Bill Darwin /m3, mail3a; PHONE=404-529-6588

Item 2

Here is the information that you requested concerning material pricing:

Please let me know if you need any additional information.

AS PER MIKE HULSEY 10/21/79

RJ 445 SMART JACK ADA-RMZO11

TELTRAN- 5712

65% USAGE =

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# ATTACHMENT (Five Pages) PROPRIETARY



#### PELLEGUTE COLLOCATION COST STUDY

		25			50			100			150			200	
•	City	Unit Cost	Total	Olly	Unit Cost	Total	Oty	Unit Cost	Total	City	Unit Cost	Total	City	Unit Cost	Total
Wire mesh panels (56 15/Linear Foot)	5			10		\$	30		\$	35		\$	40		\$
Relocate Wire Panels	1	:	•	1		\$	1			1		\$	1		\$
Swing Door & Locksel	1	;	<b>5</b>	1		\$	1		\$	1		\$	1		\$
Additional Protection	1	:	5	1		\$	1		\$	1		\$	1		\$
Electrical	1	!	\$	1		\$	1		\$	1		\$	1		\$
Grounding	1	!	\$	1		\$	١ ،		\$	1		\$	1		\$
Signage	1		5	1		\$	١ ،		\$	1		\$	1		\$
General Cleanup Supenntendent (5%) Contingency(5%) Contractor Fee (12%)	1 1 1		\$ \$ \$	1 1 1		\$ \$ \$	1 1 1 1 1		\$ \$ \$ \$	1 1 1 1		\$ \$ \$ \$	1 1 1		\$ \$ \$ \$
A/E Foos(16%) Project Mgml(5%) Total	1		•	1 1		\$ \$ \$	1		\$ \$ \$	1		\$ \$ \$	;		\$ \$ \$
Construction w/o gen cond. Total Construction w/o fee Total Construction w/fee			\$ \$ \$			\$ \$ \$			\$ \$ \$			\$ \$ \$			\$ \$ \$
Incremental cost per 50sf from std. Cost (100sf)						•			\$			\$			\$
Percentage Cost															

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		250		300		350	400	
•	City	Unit Cost Total	City	Unit Cost Total	City	Unit Cost Total	Oty Unit Cos	t Total
Wire mesh penels (56 15/Linear Foot)	45	\$	50	*	55	\$	60	\$
Relocate Wire Panels	1	\$	1	\$	1	\$	1	\$
Swing Door & Lockset	1	\$	1	\$	1	\$	1	\$
Additional Protection	1	\$	1	\$	1	\$	1	\$
Electrical	1	8	١	\$	1	\$	1	\$
Grounding	1	\$	1	\$	1	\$	1	\$
Signage	1	\$	١ ا	\$	1	\$	1	\$
General Cleenup Superintendent (5%) Contingency(5%) Contractor Fee (12%)	1 1 1	\$ \$ \$ \$	1 1	\$ \$ \$	1 1 1	\$ \$ \$ \$	1 1 1 1	; ; ;
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#### What costs are recovered in space construction?

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The following unit cost specifications were compiled based on engineering estimates and actual costs. The engineer's estimates were extrapolated from actual projects to come up with a cost per square foot. The actual costs were taken from past projects and project costs to determine a new project baseline cost.

Space construction investment for the first 100 square foot enclosure includes (a) the material and labor cost of constructing a 100 square foot welded wire mesh enclosure.

(b) architectural and engineering fees for project management, design and construction oversight, and (c) electrical and grounding work.

The standard is a 100 square foot enclosure and is assumed to be a 10' by 10' space with enclosure required on 3 sides for a total of 30 linear feet. Enclosure sizes are available at 100 s.f. minimum and then 50 s.f. increments.

These prices are based on constructing the entire collocation suite and all enclosures at the same time (at least \$0% of the time). This method allows for cost savings due to bulk purchases, reduced contractor setup fee and reduced architectural/engineering fees. The enclosure construction can not be done at this rate if the enclosures are constructed as each firm orders is received.

These costs are considered to be the most likely costs. The actual cost will vary according to existing building conditions, location of building, and local meterial and labor rates.

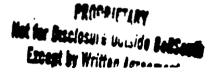
The material and labor costs for constructing the 100 square foot enclosure are as follows:

Welded Wire Mesh Enclosure (3 sides considered)
Swinging Door (3' x 8') and lockset
Dust Protection
Electrical Work
Electrical Grounding
Signage
General Conditions
Contractor's Fee
Architectural/Engineering fee
Project Management fee

Total

Incremental cost for additional 50 s.f. (See calculation below)

Space construction investment for an additional 50 square feet includes the material and labor cost of increasing the enclosure by additional 50 foot increments when constructed



at the same time as the first 100 square foot enclosure. Costs may include additional wire cage, doors, electrical and grounding work.

The incremental amount per 50 square feet (over the first 100 square feet) is weighted with the following probabilities to determine the cost per additional 50 square feet:

Square feet	Probability 5%	Computation	Cost
200	55%		
250	0%		
300	9%		
350	096		
400	31%		
	100%		

These probabilities are based on the actual requests for physical collocation enclosure construction received by BellSouth in 1997 and 1998 excluding the unusual requests for 700 s.f., 4000 s.f. and 5000 s.f..

Total

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### ATTACHMENT ONE (Two Pages) · PROPRIETARY



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tysical Collection - 2 Fiber (Singlemede) Greek C	Ormecto		1
GX Bey			
Bay Freit	Nemark Plenning & Support		
Retainers JR4C9	Network Plenning & Support		j
Lightguide K# (2)	Network Plenning & Support		,
Total Meternal Price	Nemark Plenning & Support		
Circuit Capacity	Network Plenning & Support		
Projected Actual Unication	Herwark Plenning & Support		LOV
GX Shelf Shelf	Network Plenning & Support		LGX shelves will be fully exp'd for 72 fiber terminations when inhally installed
Coupler Panel (12)	Network Plenning & Support		
SC Coupeng (72)	Network Plenning & Support		j
Fotal Meternal Price	Network Planning & Support		}
Crout Cessory	Network Plenning & Support		
Projected Actual Utilization	Network Plenning & Support		j
Fiber Cable (2 fiber bidg cable)			
Habit Callie (2 tiber ordy cests)	Nemark Planning & Support		i
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able Rack 5" E04C685 -72			Note 1
Material Price per foot	Network Plenning & Support		Note 4
Number Feet	Hetwork Planning & Support		Note 4 Note 2
2 foer Crout Cepacity	Herwark Planning & Support		10002
Projected Actual Utilization	Helient Planning & Support		
Fiber Cable (4 fiber bldg cable)			
Stereote Pro a Ser Sup 1355 SG 5 1 1	Network Plenning & Support		
Number Feel	Network Plenning & Support		Note 4 Note - add tetal 19ft for drop ends - 345ft
	herwork Planning & Support		
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Cable Reck 5' ED4C685 -72			Note 1
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Number Feet	Network Plenning & Support		Note 4
4 fiber Circuit Capacity	Network Planning & Support		Note 2
Projected Actual Utilization	Network Plenning & Support		
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POT Bay	Marian & Summer		
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Shell (12 cit), 24 fiber opecity) Coupler Penel (1 per 6 fibers, 4 mas)	Hebrert Planning & Support		One equalor parest is required to terminate a 6 fiber cebia
SC Coupling (1 per fiber, 24 mest)	Nament Planning & Support		Six couplers are required per 6 fiber cable
Projected Actual Utilization			
z myster com worden wheel	Network Pleaning & Support		essume it per at 2 floor risus occupies une of max. 12 PQT shelf pusitions in PQT bay.
ireat intersennaction Cable Support lais provided for computation of cable support costs	mer foot: billing should be based upo	NA CONTRACT COURS CALL	suit capacity not circulas placed in service)
ISO Cathe Reth			*******************************
Material Price per foot	Network Planning & Support		- PROPRIETARY
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	Network Plenning & Support Network Plenning & Support	use DS1 score	COMPANIES EXCEPT UNDER WRITTEN AGREET THE

Page 1

los i Cable Rack Network Plenning & Support Visional Price per 1001 Network Plenning & Support Circuit Capacity use OS3 score Protected Actual Ublization FIBER Cable Reck (5 mch) Network Plenning & Support Valensi Price per foot Trinited to le foot 21 bor in paroxe nacions. Network Plenning & Support Circuit Capacity Projected Actual Utilization Note 3 Network Plenning & Support Material Price per foot Network Plenning & Support Circuit Cassessy Projected Actual Utilization Note 1 5" Cable reck meternal cost ED4C585-72 G-1 \$99 60 (rack) G-10 \$80 60 (horns) G-65 \$8 88 (support detail) G-106 \$17 19 (threeded rod) \$208 27/9 71' = \$21 24/R Note 3: Fiber Duct Components/60ft run 10 - 4x4 Straight Ouct 6' \$32,9700 \$49 3146 2 - 4x4 Elbow \$1 86es 10 4x4 Souce \$3.23ee 5 - Support Details 5 - invested ros Total per 608 = \$549 02 Med Cost per Foot = \$9 15 Fiber Perchoord Capacity from ADC caralog Assumes Jimm perchoords, 2/clid *, -- - Cable length changed to 300 ft. and the second engage Notes 5 to 11 Serial in a rust 24 the control of the second of t erry franchischer die George Geber einem der George George

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### ATTACHMENT TWO (Three Pages) PROPRIETARY



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	Shelf	Network Planning & Support			<del></del>	}	1	l		T
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	Coupler Panel (1 per 6 fibers, 4 max)	Network Plenning & Support		One coupler panel is re	quired to term	nama a 6 Atter o	18000			
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page 1817, Line 96	Note 1 5 * Cable rack material cost		<b></b>		<u> </u>	ļ				
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page 1817, Line 97	Nos 2		1			ŀ		ŀ		
	For 2 fiber LGBC OD = 16"									
	Assume cable plaup to max of 5"			i		<u> </u>	1	<del></del>		1
	Max cables = 5/ 18 X 5/ 18 = 771					Ι				1
	2 Fiber circuit cap = 771 X 1 = 771		1			1	1	·		
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page 1817, Line 112	For 4 fiber LGBC OO = 185°			l		ļ	ì	l	l	ı
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	Max cables = 5/ 185 X 5/ 185 = 730					<u> </u>	<b></b>	·		<del> </del>
	4 Fiber circuit cap = 730 X 1 = 730									<del> </del>
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	Note 3. Fiber Duct Components/608 run									<b></b>
<b>\</b>	10 - 4x4 Straight Duct &									<b></b>
	2 - 4s4 Elbow									
6	10 - 4#4 Sphoe									
7	5 - Support Details									
	5 - threeded rod						<u> </u>			
	Total per 608 =									
16	Medi Cost per Foot									
	Fiber Patchcord Capacity from ADC catalog									
	Assumes 3mm petchcords, 2/ckt									
	Nue 4 Cable length changed to 300 ft									
	plus 15ft for ang (7.5 ft drop on both ends)									
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	Note 5. Facts Mar within a Latte must be									
	स्कृत क्या का की किया जा सक्या प्रत्य भी क्या									
	Note: Assume a 24 flow ratio and the				-					<del> </del>
	eard with 46 contradues a 6 liter cable									
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BellSouth Telecommunications, Inc.
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### ATTACHMENT (Three Pages) PROPRIETARY

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Woodson E Elston m6, mail6a 12/20/00 15 16

POD Item No. 29 Pa Attachment No. 1

Dated: 10/4/99 at : Page 1 of 3 Contents: 2

MESSAGE

Subject: Collocation Cost Office Backup Creator: Rusty M. Foster /m3,mail3a

Item 1

TO: Woodson E. Elston /m6, mail6a

CC: Jerry K. Higgins /m7, mail7a; PHONE=205-321-2672 Karen C. Hill /m2, mail2a; PHONE=615-646-7449 Beth Shiroishi /m4, mail4a; PHONE=404-927-1375

Item 2

Woody,

Submitted,

Rusty Foster

PROPRIETARY

Not for D:

Except by Written Agreement

Vanth	Active Cards	
•	70.000	
2	⁷ 0.953	1,304 new card activation
3	71, <b>906</b>	351 card deactivation
4	72.859	. 953 het gain per month
5	73.81 <b>2</b>	
6	74.765	
7	75,718	
8	76 671	
9	77.624	
10	7 <b>8.577</b>	
11	79,530	
12	80.483	
13	81,4 <b>36</b>	
14	82. <b>389</b>	
15	83,342	
16	84,295	
17	85,248	
18	86,201	86,678 Midpoint Active Cards
19	87,154	128,000 Apages System Capacity
20	88,107	
21	89,060	86,878 + 128,000 = 67.72%
22	90,013	
23	90,966	67.72% Projected Actual Utilization
24	91,919	
25	92,872	
26	93,825	
27	94,778	
28	95,731	
29	96,684	
30	97, <b>637</b>	
31	98,590	
32	99,543	
33	100,496	
34	101,449	
35	102,402	
36	103,365	

POD Item No. 29

Dated: '30/99 at Attachment No. 1 Conten Page 3 of 3

Subject: Cost Accounting Information for Collocation

Sender: Rusty M. Foster /m3, mail3a

TO: Woodson E. Elston /m6, mail6a

CC: Lynetta Baldwin /m6,mail6a; PHOME=205-321-4455 Jerry K. Higgins /m7,mail7a; PHOME=205-321-2672 Raren C. Hill /m2,mail2a; PHOME=615-646-7449
Beth Shiroishi /m4,mail4a; PHOME=404-927-1375

Item 2

woody,

Listed below is the information you requested:

	Field Reporting Code	RTC	COST	
Card Access Hardware	530C(inside data cntr)	523	7	
	finc (outside data entr)	523		Mew Syst.
Card Access Software	460C	<b>61</b> J		Hew Syst.
Hardware Mntce	930M	481		Extg.

Submitted,

Rusty Foster 205-321-4793

(and Access Softun (206K)

Application SU on(2) semen Multiple Site Ficeillag Code Sufruare(2) Work stations (15) (addl gophitu) drack dB RTU fee Server lot Redurant up Collections
buckeroud Compatibility (375 existing)
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\$205,871- (201K)

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### ATTACHMENT ONE (Two Pages) PROPRIETARY



Driver Description	# Vendor	First Unit		Subsequent Units Engrg Hrs Labor Hrs Minor	Adam A.m	Cagoless	Caged or Non-convention	nai Cagoless
Cable Rack - panned 15"	101	Engrig Hirs. Earbor Hirs. Minor M	an Avg	Eudid Lie Fabol Lie waver	mai avy	Oty Fus City Sus Total \$	\$75q ft Qiy FU 6 Qity SU s Total \$	\$Armogenient
(switchboard)	ADC	2] 4]	1	2[ 4]	1			
	₩R	3 3		0.75 1.75				
	Lucent	2 06 8	- 1	0.84	l			
	***	236 600	L	1 20 3 92	L	12 12	\$23 74 8 0	\$45/69
Cable Rack - nonpanned 15	102 ADC	2) 4)	ı	ગ 4ા	1			
(power)	6R		í	0.75 1.75	i			
	Lucent	2 06 8	- 1	084 6	i			
		2 36 5 00	L	1 20 3 92		12 12	\$22 50 & o	\$816 40
Cross-male cable rack	104	-1 -1	,	21 3				
	ADC 6R	15 1	J	- 2 3 - 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				
	Lucent	16 4		0 84 3				
	•	1 70 2 67		1 20 2 33		129	\$13.54 O O	\$0 00
AC - mein feed to bey	106							
	ADC	<del></del>	1	0.75				
	6R Lucent	3 4	1	0 76 3				
	Locara	250 700	1	0.88 6.60		5	\$6.05 & O	406- 24
Austery Supports	107		_					\$968 24
	ADC	141 44	1	141 44				
	€R .	3 16		0 76 1	1			
	Lucent	15 6		0.83 3.80	1	4 12	\$4.79	
Stanchion	106		<del></del>					\$219 65
	ADC	1 2	1	1 2				
	6R	3 16	1	0.75				
	Lucent	0 46 3 1 62 2 17		036 3	ļ	12 28	£13.03	
Meun Amie Conduc	100	162 217			_	12 25	\$1397 2 A	\$340.28
The course	ADC	1 261	1	1 261	1			
	6R	3 3	1	0 76 2	İ			
	Lucent	1 66 4		081 4 086 284			<b>4-</b>	
Main Asia Ground 2/0	110	1 66 3 17	L	0 85 2 84		2 2	<u>\$2 63</u> 2 2	\$263.36
Main Asis Gloung 20	ADC	21 41	1	2 4	1			
	6R	3 6	1	0 75 3 76				
	Lucent	1 4	ŀ	0 76 4	i			
		200 467	L_	1 17 3 12	<u></u>	1 0	50 61 1 0	\$61 40
Light Fedure - double lube	114 ADC	ıl 2İ		11 21				
	SR.	3 4	1	0.75 2				
	Lucent	1 9	- 1	06 6				
		1 67 6 00	L_	0 76 3 33		6 12	\$19.76 0 0	\$0 00
Cable hole establishment	116			4 1	1			
	ADC SR	3 4	- 1	0 76 4				
	Lucent	5 261	1	2 251				
		4 00 3 26	L.	1:38 3:26		2	\$254 2 0	\$254.31
Fiber Duct	11		_					
(Use 60% of dower # 11)		0 43 1 71		0 36 1 17	L	12 30	\$1/01 8 8	\$613 23
A							\$131 15	
Cageless \$/Sq Ft							4121.13	
Caged or Nonconventional					DDAF	ארוורדא רווע		
Cageless \$/Arrangement					<b>TKUF</b>	RIETARY		84,454 55

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#### **Assumptions**

BellSouth expends infrastructure capital immediately to prepare space. BellSouth has no control over utilization of this investment. The investment benefits no other service other than Collocation. Therefore, recovery of infrastructure costs should begin immediately without regard to activation of service.

To accomplish this for cagelese collocation the average EF&I space preparation cost to prepare 800 sq. ft. (2 building beys) of collocation space is calculated above. The cost calculations are based upon

To accomplish this for cagelless collocation the average EF&I space preparation cost to prepare 800 sq. ft. (2 building beys) of collocation space is calculated above. The cost calculations are hased upon preliminary "driver" costs provided to Supply Chain Management by three Turf Vendors and a theoretical average arrangement of collocated equipment within this 800 sq. ft. From these calculations the average EF&I cost/sq ft is determined. From the average EF&I cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is cost/sq ft is

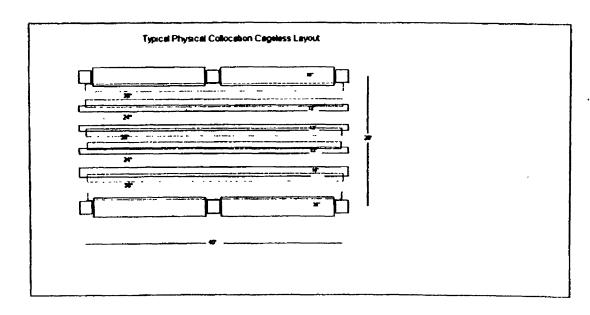
To accomplish this for caged or cagedess non-conventional collocation the average EF&I space preparation cost to prepare 800 sq. ft. (2 building bays) of collocation space is calculated above. The cost calculations are based upon preliminary EF&I "driver" costs provided to Supply Chain Management by three Turf Vendors and a theoretical average of 8 - 100 sq. ft. arrangements within this 800 sq. ft. area From these calculations the average EF&I cost/arrangement is determined. From the avg.EF&I cost/arrangement is cost attudy can determine a recurring rate to apply to every arrangement. All TelCo loadings must be applied to the EF&I cost.

The recurring charge for cross-connects should not be impacted by the standard rate space preparation charge. Cross connects will continue to require utilization of via or main assis cable support to deliver the service from the collocated equipment to the demarcation point.

It must be emphasised that the above "driver" rates are very preliminary. These drivers are being established to address equipment space preparation. Such drivers do not currently exist, as space preparation for BellSouth equipment space has been recovered by Turf vendors through the MBOS model prices.

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### ATTACHMENT ONE (Two Pages) PROPRIETARY

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Entis-e Document

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# ATTACHMENT TWO (Six Pages) 'PROPRIETARY

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#### **DS1 Assembly Point** UNEs combined by tie pair to tie pair x-conn at CLEC DS1 Assemby Point...

#### DS1 Assembly Point Egpt Frame

The DS1 assembly point is composed of standard DSX equipment tie-cabled to the existing office DSX1 complex

It is assumed that the Assembly Point will be established as a stand-alone x-connect frame physically separated from the existing office DSX1

It is also expected that placement of a separate DSX Assembly Point will result in DS1 UNE combination cross connects which exceed the max, length of 85 ft.

The proposed architecture places a bi-directional intraoffice repeater on every DS1 cross connect to compensate for the cabling distance.

DSX costs have historically been obtained from other sources - it is assumed that this practice will continue. No costs are provided

If the Assembly Point costs are incorporated into the cross-connect costs, one additional DS1 DSX circuit termination should be added.

#### DS1 Assembly Point Cross-connect

Every cross connect (tie pair) required to extend one DS1 UNE to the DS1 Assembly Frame consists of the following:

one DS1 circuit termination at the BST DSX

DS1 cable at an estimated avg. length of 150 feet

cable rack to support 150 ft of cable

one bi-directional intraoffice repeater

if the Assembly Point costs are to be included in the cross-connect include the cost of one additional DS1 DSX circuit termination

#### **DS1 Assembly Point Cross Connects**

PAC = 357C

Cost elements DSX-1 Panel - circuit These costs have historically been obtained from other sources - it is assumed that this practice will continue. Cable Item 34, Bates stamped page Material Price per foot 1866, Line 61 Number Feet Circuit Capacity Projected Actual Utilization Cable Rack Item 34, Bates stamped page 1866, Line 66 Material Price per foot Number Feet (Engineering estimate) Circuit Capacity **Projected Actual Utilization** Repeater Bay Item 34, Bates stamped page Material Price 1866, Line 71

Circuit Capacity (Max of 8 shelves per bay)

Projected Actual Utilization

Projected Actual Utilization

Repeater Shelf

Item 34, Bates stamped page

1866, Line 75

Material Price Circuit Capacity

(per shelf)

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BellSouth Telecommunications, Inc.
FPSC Dkt No. 960786-TL
Staff's 3rd Request for
Production of Documents
August 30, 2001
Item No. 36
Attachment 3
Page 1 of 5

### ATTACHMENT THREE (Four Pages) PROPRIETARY



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BellSouth Telecommunications, Inc.
FPSC Dkt No. 960786-TL
Staff's 3rd Request for
Production of Documents
August 30, 2001
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Attachment 4
Page 1 of 3

## ATTACHMENT FOUR (Two Pages) PROPRIETARY



0801PAJC XLS Page 1

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4	30-Aug-01	COLLOCATION	' Inputs	Supporting Info		!		•	•	•			
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1 -	item 36, Bates stamped page	Dh Callegation 2 Mars Cross Connec	ate.			İ							- 1
6	1879, Line 23 - 59	Physical Collocation - 2-Wire Cross Connec Cable Rack	.is			1							
7	- <del> </del>		•	Rack =								;	1
8	<b>↓  </b>	Material Price per foot Number Feet		14404									1
10	4	Circuit Capacity		Note, 1									- 1
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13	<del>-i</del>	Physical Collocation - 4-Wire Cross Connect	ds.			1	•						- 1
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27	3 1	Physical Collocation - DS3 Cross Connects	1		•	1							- 1
28	] [	Cable Rack		·									- 1
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30	J	Number Feet		Note 4									ł
31	<b>」</b>	Circuit Capacity		NOIS 4	į.	1				•		•	- 1
32		. Projected Actual Utilization			I	İ	•						- 1
33	-	Note 1: Assume 26Ga 100 Pr 806A cable			1	İ							- 1
۱	1 1	OD=0 56*	i	•									- 1
34	4	2' 6" Cable rack with max 10"pileup		• •	•	1	•					•	i
35 36	-	Capacity = 30/ 56 x 10/0 56 = 54 x 18 = 972	rahlas			Ì	•						- 1
37	-{	2wre Circuits = 972 x 100 = 97,200	, <u>, , , , , , , , , , , , , , , , , , </u>	•	•	1		•	•	•		•	- 1
38	<del>- </del>	4wire circuits = 972 x 100/2 = 48600	t		•			•		•		•	1
39	-	The second of the least least	E			1							
40	-	Note 2: Assume 22Ga 616C 28 pair Cable	OD = 0 64"			1							- 1
41		2' 6" Cable rack with max 10"pileup	•	•	-	1							- [
42		Capacity = 30/.64 x 10/.64 = 47 x 15 = 752	cables			}							- [
43		DS1 Circuits = 752 x 14 = 10,528				1							- 1
44						1		1					
	7 1	r				1							ı
	1	Note 3 DS3 cable pricing BST standards.	. •			1							
		use 735A up to 250'. Beyond 250' use				1							
1		734D Assume an even distribution of cable				!							- 1
1	1 1	lengths from 100' to 455'. 10% beyond 455	o'			İ							
45	_	require repeaters 90% less than 455'.			•			,	•	•			
	] ]	Cables between 100 and 250 = 150/355			:	1							- 1
1	1 1	=42 3%. Cables between 250 and 455' =											1
46		205/355 = 57.7%	•			}		•				•	1
47		735A cable utilization = 423 x 90% = 38%	•		•	1		•					-
48		734D cable utilization = 100% - 38% = 62%	•		1	1							
49		734D = \$.550/ft 735A = \$ 388/ft	1		1								- 1
50		\$/h=( 550)x( 62)+(.388)( 38)= \$.488/h			<del></del> _	<del> </del>			~				

0801PAJC XLS

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51											
52		Note 4 from note 3, 38% of DS3 cable is 73	5A, 62% is 734D								
53	1	735A OD = 122" , 734D OD = 0 236"				;					
54		735A cross section = 122 x .122 = 0149 sq	in .		•	Ī		•	•	•	
55	1	734D cross section = .236 x 236 = 0557 sq									
56	l	Cabi rack cross section = 30" x 10" = 300 sq									· ·
51 52 53 54 55 56 57 58 59 60	1	Let X = total cables, 300 = (62)(X)(0557) +			:				•		J
58	]	034534X + 005662X = 300	7 1/1 - 1 - 1		•	f					
50	l i	040196X = 300	Í								
60	i i	X = 7463							•		
61	1	Capacity = 7463/2 = 3732	•						•	•	. }
62		735A cables = .38 (7463) = 2836				,					
62	ŀ	734D cables = .62(7463) = 4627									
64-	1	734D Cables02(7403) - 4027			•	i			,		
04					•						
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56	- {	·	•					•			. 1
61 62 63 64 65 66 67 68	1	Note 7: 5" cable rack - length 9' 8 5"			•					•	. 1
68	l i	Oty of 1 ED4C685-72 G1 @				,					
69 70	! I	Qty of 1 ED4C685-72 G10 (									- 1
70	<b>V</b>	Total = \$19 96/ft.+									

BellSouth Telecommunications, Inc.
FPSC Dkt No. 960786-TL
Staff's 3rd Request for
Production of Documents
August 30, 2001
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Attachment 5
Page 1 of 3

# ATTACHMENT FIVE (Two Pages) PROPRIETARY



0801PAJF.XLS

FPSC Dkt No. 9	960786-TL				
Staff's 3rd Red	quest for				
Production of	Documents				
30-Aug-01		Mati	Source	Cost	
'	stamped page				
1879, Line 61	- 89	Physical Collocation - 2 Fiber (Single	emode) Cross Connects		
		LGX Bay			
		Bay Frwk	Network Planning & Support		
		Retainers JR4C9	Network Planning & Support		
		Lightguide Kit (2)	Network Planning & Support		
		Total Material Price	Network Planning & Support		
·		Circuit Capacity	Network Planning & Support		(9 shelves, 36 ckts per shelf)
		Projected Actual Utilization	Network Planning & Support		
		LGX Shelf			
		Shelf	Network Planning & Support		
		Coupler Panel (12)	Network Planning & Support		
		SC Coupling (72)	Network Planning & Support		
		Total Material Price	Network Planning & Support		
		Circuit Capacity	Network Planning & Support		
,		Cable Rack 5" ED4C685 -72			
		Material Price per foot	Network Planning & Support		
		Number Feet	Network Planning & Support		
		2 fiber Circuit Capacity	Network Planning & Support		
		Physical Collocation - 4 Fiber (Single	emode) Cross Connects		
		LGX Bay			
		Bay Frwk	Network Planning & Support		
		Retainers JR4C9	Network Planning & Support		
		Lightguide Kit (2)	Network Planning & Support		
		Total Material Price	Network Planning & Support		
		Circuit Capacity	Network Planning & Support		(9 shelves, 18 ckts per shelf)
		Projected Actual Utilization	Network Planning & Support		
		LGX Shelf			
		Shelf	Network Planning & Support		

#### 0801PAJF.XLS

		- ·			
 Coupler Panel (12)	Network Planning & Support			ļ	<del> </del>
 SC Coupling (72)	Network Planning & Support	ļ			
 Total Material Price	Network Planning & Support	l			<del> </del>
 Circuit Capacity	Network Planning & Support				
					<del>                                     </del>
Cable Rack 5" ED4C685 -72					<del>}</del>
Material Price per foot	Network Planning & Support	1			
 Number Feet	Network Planning & Support	1.			ļ
 2 fiber Circuit Capacity	Network Planning & Support	1		<b>_</b>	- <b> </b> -
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For 2 fiber LGBC OD =.18"		1			
 Assume cable pileup to max of 5"		<u> </u>		ļ <u>.</u>	<del> </del>
Max cables = 5/.18 X 5/.18 = 771			ļ	<del> </del> -	<b>-</b>
 2 Fiber circuit cap = 771 X 1 = 771				<u> </u>	<del></del>
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 For 4 fiber LGBC OD =.185"					<b></b>
 Assume cable pileup to max of 5"				<del> </del>	<del></del>
 Max cables = 5/.185 X 5/.185 = 730			<del></del>	<del></del>	-
4 Fiber circuit cap = 730 X 1 = 730					<del></del> _
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BellSouth Telecommunications, Inc.
FPSC Dkt No. 960786-TL
Staff's 3rd Request for
Production of Documents
August 30, 2001
Item No. 37
Attachment
Page 1 of 12

# ATTACHMENT (11 Pages) PROPRIETARY



#### **DLC PRICE CALCULATOR**

Study:

Housing

Date: Study Period: May-00 2000-2002

#### Unbundled Sub-Loop Concentration Housing

Source:	Network	Network	Finance	G = C	E/B	Network	FxG
Cabinets	Available Bays per Housing	1998 Material Price per Housing		1998 Material Price	1998 Material Price per Bay	Probability of Occurrence	Weighted <u>Material</u>
Mesa6 (257C-37)	6		i	•		33.33%	
Huts Hut-Maxi (10C-00)	17					33.33%	
Vaults						22.228	
CEV (4C-00)	15					33.33%	

Notes: NGDLC cabinets for Litespan and DISC*s were added.

No telephony equipment is included in the price for huts, CEV and CEC-2000 housings. The Litespan and DISC*s cabinets include telephony equipment minus the channel bank shelves, DSX panel and service plug-ins.

** Dual Channel Bank Assembly (DCBA)

PROPRIETARY

A for Discl: BellSouth

Except by Written Agreement

#### **DLC PRICE CALCULATOR**

Study:

Housing

Unbundled Sub-Loop Concentration Housing

Date: Study Period: May-00 2000-2002

Source:	Network	Network	Finance	G=C	E/B	Network	FxG
	Available Bays per Housing	1996 Material Price per Housing	IPI	1998 Material Price per Housing	1998 Material Price <u>per Bay</u>	Probability of Occurrence	Weighled <u>Malenal</u>
Cabinels							
Mesa6 (257C-37)	6		n/a			33.33%	
Huls							
Hut-Maxi (10C-00)	17		n/a			33.33%	
<u>Vaults</u>							
CEV (4C-00)	15		n/a			33.33%	

Notes: NGDLC cabinets for Litespan and DISC's were added.

No telephony equipment is included in the price for huts, CEV and CEC-2000 housings. The Litespan and DISC's cabinets include telephony equipment minus the channel bank shelves, DSX panel and service plug-ins

** Dual Channel Bank Assembly (DCBA)
PROPRIETARY

NOT FOR USE OR DISCLOSURE OUTSIDE OF BELLSOUTH TELECOMMUNICATIONS OR ITS AFFILIATED COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

## ATTACHMENT A 6' x 24' CONTROLLED ENVIRONMENT VAULT

RFP No. 99-07-06-LTH Attachment C. Revision I

Page 2 of 7 POD Item No. 37

### LICCUTATE TO THE PROPERTY OF A Z4' CONTROLLED ENVIRONMENT VAULT

POD Item No. 37 Attachment No. 1 Page 4 of 11

#### PRICING SUMMARY

CEV CONFIGURATION	NO. IFITL SYST.	EQPT. TOTAL	INST. MAT. TOTAL	INST. LABOR TOTAL	TOTAL
OLDCASTLE CEV	-		•	•	\$46,506
CAPITAL CONCRETE CEV	-	<u> </u>	•	•	\$42,635
	7		<u> </u>		\$200,756
CEV IFITL EQPT.	8 9				\$211,602 \$221,224
MUX OPTIONS		 			
FLM-150 EQPT.	-		•		\$5,758
DDM-2000 EQPT.	-		•		\$5,076

#### TRANSPORTATION / HOSTING / PLACEMENT CHARGES

	TRANSPORTATION	HOISTING	PLACEMENT	TOTAL
AREA	F.O.B. Origin/ F.O.B. Destination			
Miami	\$5,100	\$3,900	\$41,570	\$50,570
Ft. Lauderdale	\$4,985	\$3,900	\$41,570	\$50,455
Atlanta	\$2,620	\$3,900	\$41,570	\$48,090
Orlando	\$3,940	\$3,900	\$41,570	\$49,410
Jacksonville	\$3,450	\$3,900	\$41,570	\$48,920
New Orleans	\$4,050	\$3,900	\$41,570	\$49,520
Charlotte	\$3,230	\$3,900	\$41,570	\$48,700
Raleigh	\$3,890	\$3,900	\$41,570	\$49,360

#### 6' x 24' CONTROLLED ENVIRONMENT VAULT

POD Item No. 37 Attachment No. 1 Page 5 of 11

ПЕМ	DESCRIPTION	QTY	UNIT PRICE	EQPT TOTAL	TOTAL INST. MATERIAL	TOTAL INST. LABOR
	DISCHS HDT EQUIPMENT					
1A	HDT IFITL Bay e/w 7 OCS RDSC Code RM6506007	7				
	-48VS Fuse & Alarm Panel (J-C2001L12)	2				
	Alcoa Fujikura Octal Jumpers					
	Bays 1-4, 31 Feet, SC/SC	4				
	Bays 5-7, 22 Feet, SC/SC	3				
	Data Cable Set (1 per IFITL Bay)	7				
	7 DISCHS HDT BAYS TOTAL					
1 <b>B</b>	HDT IFITL Bay e/w 7 OCS RDSC Code RM6506007	8				
	-48VS Fuse & Alarm Panel (J-C2001L12)	3				
	Alcoa Fujikura Octai Jumpers					
	Bays 1-4, 31 Feet, SC/SC	4				
	Bays 5-8, 22 Feet, SC/SC	4				
	Data Cable Set (1 per IFITL Bay)	8				
	8 DISCHS HDT BAYS TOTAL					
1C	HDT IFITL Bay e/w 7 OCS RDSC Code RM6506007	9				
	-48VS Fuse & Alarm Panel (J-C2001L12)	3				
	Alcoa Fujikura Octal Jumpers					
	Bays 1-4, 31 Feet, SC-SC	4				
	Bays 5-9, 22 Feet, SC/SC	5 ·				
	Data Cable Set (1 per IFIT Bay)	9				
	9 DISCHS HDT BAYS TOTAL			~		
			55.44			

### **PROPRIETARY**

NOT FOR USE CRIDISCLOSURE CUTSIDE OF BELLSOUTH TELECOMMUNICATIONS OR ITS AFFILIATED COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

RFP No 99-07-06-LTH Attachment C, Revision 1 Page 4 of 7

> POD Item No. 37 Attachment No. 1 Page 6 of 11

#### 6' x 24' CONTROLLED ENVIRONMENT VAULT

						Page 6 of 11
ITEM	DESCRIPTION	QTY	UNIT PRICE	EQPT TOTAL	TOTAL INST. MATERIAL	TOTAL INST. LABOR
	POWER TRANSFER SWITCH					
2	200 Amp JuiceBox RJBD200MXRBS	1				
	JuiceBox Template (F003488)	ì				
	BASIC STRUCTURE					
3 <b>A</b>	Oldcastle 6' X 24' CEV	1			•	
3 <b>B</b>	Capital Concrete 6' x 24' CEV	1				
	DISTRIBUTING FRAME					
4	800 Frame	5				
	100 Pr. Cross Connect Block	27			ţ	
	DS-1 CROSS CONNECT					
5	DIXI-84 DS-1 DSX Panels	2				
6	800 Frame	2				
	56 Pr. Cross Connect Block	8			Ţī	
	MULTIPLEXER					
7 <b>A</b>	FLM-150 Multiplexer System	2				
7 <b>B</b>	DDM-2000 Multiplexer System	2				
	LGX / FIBER MGMT.					
8	Feeder 24F LGX (108319849)	ı				
9	Dist. 144F LGX (108349390)	5				
10	CEV Fiber Management System	1				

## ACT FOR LOG ..... D. TOTO C.A. SECRET APPLICATED COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

RFP No 99-07-06-LTH Attachment C. Revision 1 Page 5 of 7

> POD Item No. 37 Attachment No. 1 Page 7 of 11

#### 6' x 24' CONTROLLED ENVIRONMENT VAULT

ITEM	DESCRIPTION	QTY	UNIT PRICE	EQPT TOTAL	TOTAL INST. MATERIAL	TOTAL INST.
	REPEATER					
11	Wescom STS 3192 System	1				
	POWER EQUIPMENT					
12	Power Plant	1				
13	Battery Stands (PM0125-4CB)	2				
	Batteries FIAMM (FL0125BE 125 AH)	16				
	MISC. EQUIPMENT					
14	Iron Work & Cable Rack	l				
	Ground System	1				
	Fiber Ducting System	1				
	Pwr. Harness for PC Data & Video	1				
	MISC. FUSE PANEL					
15	Misc. Fuse Panel	2				
	MISC. EQUIPMENT RACK					
16	Misc. Equipment Rack	5				
	ALARM CROSS CONNECT SYSTEM					
17	Alarm Cross Connect Panel	2				
	PROTECTION					
18	Protection Frame Assembly	t				
	307C2-100 Protection Block	14				

RFP No 99-4)7-06-LTH Attachment C. Revision I Page 6 of 7

> POD Item No. 37 Attachment No. 1 Page 8 of 11

Project management.

- Test bores and soil investigation report.
- Excavation of site.
- Compacted stone base.
- Provide, install and connect ground ring consisting of #2 bare copper conductor cad-welded to 8' copper ground rods spaced approximately 8' 10' apart.
- Crane Services and placement of CEV.
- Concrete slurry (CDF) backfill.
- Dry well.
- Basic site restoration.
- Connect commercial AC from meter to CEV.
- Connect environmental alarms.
- Installation of batteries, DC power turn-up and adjustment, and brief orientation session on DC power system.

#### **Proposal Assumptions**

- All easements, leases, zoning variances and special permits beyond normal excavation permits shall be secured by customer.
- Site is clear and free of obstructions.
- Pricing does not include charges associated with the relocation of overhead and/or underground utilities.
- Assumes that traffic control is not required.
- Assumes sufficient lead times for construction start.
- Site is accessible by cranes, boom trucks and concrete trucks under their own power.
- MARCONI Communications shall not be liable for testing, handling or disposal of contaminated or hazardous materials.
- Free and unobstructed access to site during normal business hours.
- Pricing does not include driveway construction, landscaping or custom site preparation such as walls, fences and landscape tumbers.
- Assumes a non-union work environment.
- Commercial AC is available at site within 25' of AC service entrance.
- Soil investigation report does not indicate special foundation or installation requirements.
- MARCONI, Network Solutions Group shall be responsible for arranging for commercial AC and coordinating with local Power Company for final inspection and connection.
- Any deviation from the previously mentioned Scope of Work shall result in a pricing increase.
- Any downtime beyond the control of MARCONI, Network Solutions group shall result in a charge that shall be billed hourly in accordance with the work being performed.
- All work to be performed shall be completed in such a sequence as to ensure that a continuous work environment shall be utilized until final acceptance of the project. Failure to comply could result in a pricing increase.
- Pricing does not include any blasting of hard soil and assumes that ground condition shall be deemed as normal
  and will not require any additional pricing.
- Pricing does not include any pricing for the excavation in or through any environmentally protected areas.
- Pricing assumes that well pointing shall not be utilized.
- Additional Mobilization fee will apply if less than 2 sites are awarded in any of the aforementioned BellSouth
- Hoisting pricing will be set at up to 4 hours. Additional charges may be incurred for more time due to varying site conditions.
- Pricing for AC connection shall be for one 200A power transfer switch.
- Pricing for AC connection does not provide for any type of special licensing fees.
- Engineering shall consist of "As Builts" of the site installed.

:.:

REP No. 99-07-06-LTH Anachment A. Revision 2 Page 8 of 6

#### :

- Pricing for AC connection shall be for one 200A power transfer switch.
- Pricing for AC connection does not provide for any type of pecial licensing fees.
- . Engineering shall consist of 'As Builts" of the site installed.

PRITTIOONER

No! "

Except by Millian Wicemell

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. Ordering Guide June, 1996

MESA 6 Models

CUSTOMER:

BELLSOUTH TELECOMMUNICATIONS, INC.

BASE MODEL CODE:

XRM6200

CONFIGURATION:

MESA 6 Remote Terminal Cabinet Equipped with Three (3) DISC±S Common Shelves. One (1) DDM 2000 Mux Shelf. Zero (0) STS 3192 Repeater Shelves, (1) DIXI Panel, and wired for (21) Copper Channel

Shelves.

ITEM	base model hardware	PRODUCT CODE	QTY
1.0	MESA Cabinet Assy consist of:	JC0402L1	1
1.1	MESA Cabinet	F003196	1
1.2	Fuse & Alarm Panel	4100692L3	3
1.3	Common Shelf	4100891L2	3
1.4	Modular Power Sheff	72-07-954	1
1.5	DC Distribution Panel	73-16-598	1
1.6	Marconi 325 Protector Block (2300pr)		1
17	Alarm Cross Connect Panel	45-508-49	1
1.8	Battery Termination Panel	73-16-599	1
2.0	DDM-2000 Wired for \$4 D\$1s	JC0402L19	1
2.1	DDM-2000 MUX Shelf Kit: CABDDMKIT	<b>;</b>	1
!	PID: 665960820		
2.2	DDM-2000 2C Fan Unit	•	1
3.0	DIXI Panel KIT: CABDIXIPANEL	JC0402L12C	1
3.1	DIXI Panel PID: 410970149		1
4.0	900 Type DSX	JC0402L61 , L69	1
<u>.</u>	KIT: CABOODSXMCKIT PID: 409670142	,	1
4 1	900 Type DSX		1
5.0	Thermal Runaway Unit	JC0402L35	1
5.1	Thermal Runaway Unit		1
6.0	Ringing Generator Shelf	JC0402L18	1
6.1	SFT7 Ring Generator Shelf		
7.0	MESA & Documentation consists of:		
7.1	MESA 6 Description & Install. Practice	640-250-612C	1
8.0	6V-109AH Setteries	JC0402L32	2/3

ITEM	Base Model Plug-Ins	PRODUCT CODE	QTY
9.0	Fower and Ringing Plug-ins		
	Moduler Recohers	41-308-39	_3_
	Ringing Generator Modules	487110900	2
10.0	LIU Test Connector	41-008-39	2
	Adapter Null Modern	41-006-46	1

Marconi Communications

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CA	Ga.	Mi	RIETARY
Degt.	Phone 4	Met for Disclosi	re Outside BellSouth
FORD HALL TIME CU!	G Page	Mac lat aleas	المحمد، و

ROSC Code		MESA 6 NEMOTE TERMINAL CARMET SOUPPED WITH THREE (3) DISCAS COMMON SHELVES; ONE (1) DOM 2000 MUX SHELF; (0) STS 3192 REPEATER SHELVES,							BellSouth Telel
Base Model	Sub- Madel	(1) DINI PANEL, AND WIRED FOR (21) COPPER CHANNEL SHELVES.							
XPID Hun	nber	Qt.	Product Description	<b>Product Code</b>	Stem Designator	PID NO.	Sub-Price	Price	Price
Checkey	9999	1	Rate Model Hardware	•		1			1
(0005370		0	MOT (Casser) RT Channel Shell	JCO402L15		1			l
		•	MOT BYTL) RT Channel Shell	JCO402L14		}	)		l
		2	48 6V-100AH Belleries	JCQ406L32	PM62000000H	750070510	1		1
		1	Rese Model Phys. Ins	•		1	T		ļ
	À	. 2	Medider Reciffer	41-306-30		1	l		
		0	Ringing Generator Medule SFT 7	467110900		l	ì		1
	Į	1	Adayter Nyll Medge	41-000-46			1		ļ
	ſ	2	LIU Teet Connector	41-000-30	RM62000009P	739970507	[		
		1	Other Venders Equipment	•	CABOOODS)GMKIT	400070142			
		1		•	CABOXIPANEL	413970149			
	- 1	1		•	CABDOMKIT	865860820			
	í	•	BellSouth Total	•					
R00200D	8300	1	Base Model Hardware	•					
0005177		3	RDT (Copper) RT Channel Shall	JCO402L15					
	- 1	0	HOT (FITL) AT Channel Shell	JC0402L14		[			
	- 1	2	(0) 6V-160AH Belleries	JC0402L32	FM62000300H	389943618			
	1	1	Bage Model Plug-Ing	•					
		2	Modular Recillier	41-300-30		1			
	1	2	Ringing Generator Module SFT 7	407110900					
	į	1	Adapter Null Modern	41-009-46		1 1			
	ı	2	LIU Test Connector	41-008-30	FM62000300P	411943624			
		1	Other Venders Equipment		CAMBOOD 630 MOKUT	409970142	-		
		1			CABOXIPANEL	410070140			
	1	1		J	CABDOMKIT	<b>965050820</b>			-
		•	Colifornia Tatal	•					
	i			1			1		

**Marconi Communications** 

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BellSouth Telecommunications, Inc.
FPSC Dkt No. 960786-TL
Staff's 3rd Request for
Production of Documents
August 30, 2001
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# ATTACHMENT (Five Pages) PROPRIETARY



		9	
2			
27			
Price Details		•	
·· ED6C736-30 G-6			
Contract No:			Item 1 of 1
Description:	•••		ide Effective Date:
DOUBLE SIDED COUNDISTRIBUTING FI	<b>W</b> ,	300	14/2000
Price Type	Unit Price	Principle/ United Measure	City Break
Net Price (D)			SENA.
Delivery Interval: N/A	Shedhad: 4		-1
Order Multiple City: NA	Shorter		3
Merchandise Class: F	red Wilght:	7,	
Notes:	C Diagram (1	· , , , , , , , , , , , , , , , , , , ,	
Add to my saved produc	ct list: Please S	elect V	7
View produ	ct list: Please S	elect 🔻	2
Create new produ	ict list:		7
Help on this ac	tivity	Return to price of	MACA.
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POPTOM NAVBAR			
By initiating any Electronic Commerce transaction you are deemed to have acce	herein related to the	purchase of goods fro Commercs Rules of use	m ;
<u>Coornahi@</u> 1988	4	it rights reserved.	
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COVER MISC. ASSOCIATED NACIONALE SUCH AS MISIGNATION BOARDS, ETC.

Not for Desclosure f

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POD Item No. 38 Bei:South Central Office Driver Pricing ENGINEER NO Attachment No. 1 45"4.. Page 2 of 5 51817 EA AGE Assemble and Mount Bay or Casinon 2 install Short or Unit in Bay 3 Hist Fues fermination - mas sength 30 Office and Local Marine Remote Norms - 2.36, TBOS, Steams and Breadband 6 Alarm Accordance and Tooling Miscellaneous Leads (Run Collect) - Max langer 135 R. & MURIPH MISCONANOUS LARGE (RUNCANNET) 9 Finer Jumpers (Inchise Connectors One Pair (Amplicy) Pair) - max weight 126 ft. 10 Fiber Cross-Connect Jumpers ((ImeRev) Perr) - mas longth 20 R. 11 Fiber Duct added to existing tino-up 12 DESISTS-1 (MINUTE STORAGE to DEX-2) 1 onto - max tangen 180% 13 DES/ETS-1 (News Borners to DEX-3) 6 offs. - max langer 180 R. 14 DS2/ETS-1 (News Borners to DGZ-3) 12 etts. - mas tangen 100 R. 15 FUTURE - DESETT-1 (Name Marriet to SET-5) 24 ette 16 DS1AT1.5 (Mark Borners to SSZ-1 Non-Corn Hell 25 etts - Mai langen 186 ft. 17 Connectorized D&1NT1.5 (rook Stemart to D&X-1) 30 etts - max langth 160 ft. 18 Connectorized DS1AT1.5 (Name Bernard to SEX-1) (Non-Ampa, Man-Me Cons.) 28 este - mes langer 189 19-060 (Heve Burners to OF 25 Pair Communication) - max larger 300 ft. 20 DEG (Mint Sement to DF 100 Petr Connectation) - max larger 500 ft. 21 Pups and Circuit Posts - Handle, Warehouse, Ballver, verily 22 Modules / Strape / Hardware Warehouse, dallier, handle, verify 23 Power For Land (SDFS) 1 - 16 alone - max langus 100 ft. 24: Power Per Land (8078) 16 - 35 amps - max langth 180 ft. 25 Power Per Lead (90PS) 21 - 45 AMES - Stat langue 108 R. 28:Power Per Load - Wher buy power - max bough 138 ft. 27 Pener Per Land (Correctorand Pener Cable Assembles) - max larges 18 ft. Timing Cable For Pair - max langth 300 R. Multiple Capie William Same Bay Free Pensi (Mari enty) 31 Furnish Boy (All Types) Mart any) 32 Current (Mari energ) 33 Formand Strips and Willing Streets 34 (Sersons bay ( Mat'l arrly ) 35 100 Foot me 36 300 Feet 100 37 300 Feet 1940 38 100 Feet 20.0 39 Seconds and puzzl 40 Sevenie bay estender 41 Engineering costs - to cover additional detailed Brigs, costs 42 installation code - to cover additional traff, code 43 Open and close casts help 44 300 and 400 type blanks - (500, 510, 400) statuted difference from 50 type 45 Excessive cases singule - 900, 801 and 900 - max langul in 300 ft increments 46 OEM provided cable seasonally used for latte buy eathing - included on each only 47 OEM provided cable seasonably sout for later buy eatility - bratalistics come only 48 050 (News Stemant to DF 35 Pair Non-Connectorized both ands) - their langth 300 ft. 49 000 (Mins Bornett to DF 100 Per Han-Connectorized both undo) - max langth 300 R. From the Weedicase Sipply Chain Mant 3/4/60 PP^---All fices steem are carrent. ide BellSent **i for** Dir

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Excec'

ise Paterton cours from RTE Conol

	Driver#	Installation Activity	EN	GINEERING		IN	STALLATIO	N	MATE	RI.
QTY			FIRST	EA ADD.	<u>Total</u>	FIRST	EA ADD	<u>Total</u>	EACH	<u>L</u>
1	1	Assemble and Mount Bay/Cabinet			ļ	j				ı
14	2	Install Shelf/Unit/etc in Existing Bay								,]
42	20	DSO (Ntwk Element to DF 100 Pair Connectorized) 150"								- "]
336	21	Plugs/Ckt Packs - Handle, Warehouse, Deliver								1
1	31	Furnish Bay (All Types)(Mal'l only)	-							••
42	33	Terminal Sinps/Winng Blocks	-	-						ı
14	42	1 hour of installation; 3 - 89 type blocks per/hour		-		<u> </u>				
		TOTALS		ENG:			INST-		MAT.	•

IN21:

MAT:

Grand Total = \$30,929

Estimated cost of extra cabling if cosmic frame is involved; max distance 150'

27 DS0 wire-wrap both ends; 100 pair 91

23

215

5879

295

7965

This excel spreadsheet provides Engineering, Installation, and minor material charges for the Siecor 96-line ADSL POTS splitter It also covers the material cost of one 7' standard, non-seismic network bay.

tt covers 89 type blocks, physical installation, engineering, and DS0 cabling between the 69 type blocks and the frame for one 7" fully equipped bay of the equipment. The device is passive, and derives powering from the DSLAM equipment, so no power cabting is included. Siecor recommended capacity for one bay is 14 shelves. The equipment is not shopwired, so the installation portion also covers assembly of the shelves into the bey and placement of the 24 plug-in circuit boards in each shelf. These costs only reflect cabling for an MDF environment. If the office has a cosmic frame, additional DSO/tie (wire-wrap both ends) cabling for 2688 pairs (14 shelves X 96 lines X 2) would be required. See additional estimated charge at the bottom of the spreadsheet

The assumption is made that the max distance on the DSO cabling is 150', and that the backplane allows for cabling with a 100' cable to each 89 type block for each set of 32 lines.

I would advise referencing the total E, total I, and total Micosts - and overall project cost, but not the activity level pricing

PROPRETARY Not for Disclesure Outside BellSouth Except by Written Agreement

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PROPIETARY
Not for Disci. A Buildorth
Except by Writing Agreement.

BellSouth Telecommunications, Inc.
FPSC Dkt No. 960786-TL
Staff's 3rd Request for
Production of Documents
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Item No. 40
Attachment 1
Page 1 of 2

# ATTACHMENT ONE (One Page) PROPRIETARY

ļ	YUU ITƏM NO. 40
Assemble and Mount Bay or Cabinet	Attachment No. 1
2 Install Shelf or Unit in Bay	Page 1 of 1
3 Misc Fuse termination - max length 30'	
Office and Local Alarms	
U Remote Alarms - X.25, TBOS, Discrete and Broadband	
6 Alarm Acceptance and Testing	
7 Miscellaneous Leads (Run/Connect) - max length 126 ft.	
8 Multiple Miscellaneous Leads (RurvConnect)	
9 Fiber Jumpers (Include Connectors One Pair (Xmt/Rcv) Pair) - r	
10 Fiber Cross-Connect Jumpers ((Xmt/Rcv) Pair) - max length 30	n.
11 Fiber Duct added to existing line-up	
12 DS3/STS-1 (News Element to DSX-3) 1 citts - max length 150ft.	•
13 DS3/STS-1 (Newk Element to DSX-3) 6 ckts max length 160 ft.	
14 DS3/STS-1 (Ntwk Element to DSX-3) 12 ckts max length 160 f	r.
15 FUTURE - DS3/STS-1 (Ntwi: Element to D\$X-3) 24 ckts.	
16 DS1/VT1.5 (NYWK Element to DSX-1 Non-Connectorized) 28 citts	s - max length 160 ft.
17 Connectorized DS1/VT1.5 (ntwk Element to DSX-1) 28 ckts - ma	ux length 160 ft.
18 Connectorized DS1/VT1.6 (Newk Element to DSX-1) (Non-Amph.	, Non-710 Conn.) 28 ckts - max length 16
19 DSO (Ntwx Element to DF 26 Pair Connectorized) - max length:	200 N.
20.DSO (Ntwk Element to DF 100 Pair Connectorized) - max length	200 R.
21 Plugs and Circuit Packs - Handle, Warehouse, Deliver, verify	
22 Modules / Straps / Herdwere Warehouse, deliver, handle, ver	ffy
23 Power Per Load (BDFB) 1 - 16 amps - max length 160 ft.	
24 Power Per Load (SDFS) 16 - 30 emps - max length 160 ft.	
25 Power Per Load (BDFB) 31 - 46 amps - max length 160 ft.	
26:Power Per Load - Inter bay power - max length 126 ft.	
27 Power Per Load (Connectorized Power Cable Assemblies) - ma	ıx length 30 ft.
'S Timing Cable Per Pair - max length 200 ft.	
Multiple Cable Within Same Bay	
30 :Fuse Panel (Mat'l only)	<del></del>
31 Furnish Bay (All Types)(Marti only)	
32 Cabinets (Mat'l only)	
33 Terminal Strips and Wiffing Slocks	
34 Seismic bay ( Mat'l only )	
35 100 Foot stub	
36:200 Foot stub	
37 300 Foot stub	
38:500 Foot stub	
39:Seismic end guard	
40 Seismic bay extender	
41 Engineering costs - to cover additional detailed Engr. costs	
42 installation costs - to cover additional insti. costs	
43 iOpen and close cable hole	
44 300 and 400 type blocks - (308, 316, 400) material difference fro	om 69 type
45 Excessive cable lengths - DS0, DS1 and DS3 - max length in 2	00 ft. increments
46 OEM provided cable assembly cost for intra bay cabling - inst	allation costs only
47 OEM provided cable assembly cost for inter bay cabling - inst	allation costs only
48 DSO (Ntwk Element to DF 26 Pair Non-Connectorized both en	ds) - max length 200 ft.

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	411 111						
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49 DSQ (Ntwk Element to DF 100 Pair Non-Connectorized both ends) - max length 200 ft.

2/9/00

Not for use or disclosure outside of BellSouth or any of its subsidiaries except under written agreement

BellSouth Telecommunications, Inc.
FPSC Dkt No. 960786-TL
Staff's 3rd Request for
Production of Documents
August 30, 2001
Item No. 40
Attachment 2
Page 1 of 2

# ATTACHMENT TWO (One Page) · PROPRIETARY



	munications, Inc. LINE SHARING SPETTER -	С	0	E	F
A	8				
onde					
puts for	Recurring Costs				
tudy Per	od. 01/2000 - 12/2002				
L.					
					Amount
	Item / Description	FRC	Sub FRC	Source	Amount
Element	Description				
		in the Remoti	Terminal	•	
J.4	LINE SHARING SPLITTER - in the Central Office and	HI DIO HOMO	•		
				ice	
J.4.1	Line Sharing Splitter - per Splitter System 96 Line C	abacity man	-		
•	Distributing Frame	377C	. 06	MDF Fundamentals_(GARY G	MCE)
	Material Price			MDF Fundamentals	
	Projected Actual Utiliz ation	•		Network Plenning & Support	
	Circuit Capacity	•		Network Planning & Support	
	Number Required (3 terms on MDF / Line)				
	Connecting Blocks	• • • • • • • • • • • • • • • • • • • •	06	MDF Fundamentals (GARY G	RACE)
<b>-</b>	Material Price	, 377C	, •••	MDF Fundamentals	
ŀ	Projected Actual Utiliz ation			Network Plenning & Support	
ł	System Capacity		•	Network Planning & Support	
ł ·	Number Required			15-11-21	
<b>∤</b>	Line Sharing Spillter (Bay)	2570	03	(Bill McAllister - CCM)	1
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<del> </del>	Line Sharing Splitter (Shelf, Test Eqpt, Plug-ins &	Cabling )		Slecor Splitter	
<del>: </del>	Material Price per System	257		Test Access Shelf	· ·
4	Projected Actual Utiliz ation			Bay Shelf (2:420) Connectorized Cable	
<u> -</u>	System Capacity			Connectation Seems	
-	Number Required				
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2	2 Line Sharing Splitter - per Splitter System 24 Lin	e Capacity in	THE CHILD		
3 14	Distributing Frame	37			GRACE)
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	Projected Actual Utiliz ation		. •	Network Plenning & Support	
36	Circuit Capacity			Network Plenning & Support	
37	Number Required (3 terms on MOF / Line)		•		
38	Connecting Blocks			6 MDF Fundamentals (GAR	Y GRACE)
39	Material Price	<b>3</b> /	rțc9	MOF Fundementals	
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41 42 43 44 45 46 47 48 49 50	Number Required  Line Sharing Spitter (Bey)  Material Price  Projected Actual Utiliz ation  System Capacity  Number Required  Line Sharing Spitter (Shalf, Test Eqpt, Plug-II  Material Price per System  Projected Actual Utiliz ation		  <del>_</del>	03 (BIII McAllister - CCM) Network Planning & Suppo Network Planning & Suppo Network Planning & Suppo Network Planning & Suppo 15 Slecor Splitter Test Access Shelf	- : : : : : : : : : : : : : : : : : : :
41 42 43 44 45 48 47 48 49 50 51	Number Required  Line Sharing Spitter (Bey)  Material Price  Projected Actual Utiliz ation  System Capacity  Number Required  Line Sharing Spitter (Shalf, Test Eqpt, Plug-I  Material Price per System  Projected Actual Utiliz ation  System Capacity		  <del>_</del>	OS (BIR McAllister - CCM) Network Planning & Suppo Network Planning & Suppo Network Planning & Suppo 15 Slecor Splitter Test Access Shelf Rev Shelf (2x820)	- : : : : : : : : : : : : : : : : : : :
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41 42 43 44 45 48 47 48 49 50 51 52 53 54 55	Number Required  Line Sharing Spitter (Bey)  Material Price  Projected Actual Utiliz ation  System Capacity  Number Required  Line Sharing Spitter (Shalf, Test Eqpt, Plug-I  Material Price per System  Projected Actual Utiliz ation  System Capacity		  <del>_</del>	OS (BIR McAllister - CCM) Network Planning & Suppo Network Planning & Suppo Network Planning & Suppo 15 Slecor Splitter Test Access Shelf Rev Shelf (2x820)	- : : : : : : : : : : : : : : : : : : :
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BellSouth Telecommunications, Inc.
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### ATTACHMENT ONE (16 Pages) PROPRIETARY

Entire Doc

BellSouth Telecommunications, Inc.
FPSC Dkt No. 960786-TL
Staff's 3rd Request for
Production of Documents
August 30, 2001
Item No. 42
Attachment 4
Page 1 of 49

# ATTACHMENT FOUR (48 Pages) PROPRIETARY



#### BELLSOUTH TELECOMMUNICATIONS, INC.

FPSC DKT NO. 001797-TP

#### COVAD'S FIRST REQUEST FOR PRODUCTION OF DOCUMENTS

POD NO. _________

**PROPRIETARY** 

Requests for Production Item No. 33 Attachment No. 1 Collocation – Supporting Documents

Karen C. Hill 615-646-7449 575 8-818

- -02 -100 025

The information provided below, including the price, is generic in nature. It does not provide any information specific to a particular size. We have made several assumptions. Since the terms of adjacent collocation are still being negotiated and we have not provisioned any adjacent collocation arrangements it is hard to tell what will be encountered in real life. The assumptions that have been made are as follows:

Pricing for typical project:

- 1) The hut/CEV will be located no further than 50 feet away from the building.
- 2) The distance traversed within the building to connect to BellSouth's power will be no further away than 100 feet.
- 3) The service provided would handle an additional load of a dehumidifier, electrical receptacles, lighting, sump pump, mechanical cooling etc.

4) A standard collocator equipment layout for 200 quare feet was used to calculate the amount of power.

- 5) Standard conditions were considered. No work within battery rooms, no work around sensitive equipment, no usage of special breakers, atc. were considered.
- 6) All work would be between the hours of 7:00AM and 5:00PM during weekdays.
- 7) Any work associated with the CEV/Rut such as building setup, foundations, landscaping, etc. were not considered as they will be provided by the CLEC.
- 8) The collocators will be provided the same AC power that is available in the central office facility. If the collocator wishes to convert this power to another phase, they will purchase and install the transformer.

The scope of work categories covered by this price would include:

1) Supervision

2) Demolition (Tearing up the Parking Lot, coring the exterior wall, etc.)

3) Mobilization

4) Rarth Work and Excavation (Digging the trench)
5) Compaction (Compacting the dirt placed back in the trench)

6) Asphalt (New parking lot paving)

8) Painting Allowance (Re-stripping the parking lot) - PLot 2×

icing would break down as follows:

17,250.00 (Item Mumber 7 above)

3,750.00 (All items except Number 7)

1,000.00

Insering/project management:

9,000.00

37,000.00 Basically, the pricing would break down as follows:

Electrical Work: 17,250.00 (Item Number 7 above) Other Work:

Permitting:

Architectural/engineering/project management:

TOTAL: Contingency: 2,500.00 GRAND TOTAL: 39,500.00

Conversion to cost per linear foot \$32,500/150 l.f. = \$263 per linear foot

This price can be used for the electrical installation cost for all adjacent collocation arrangements excluding extra-ordinary conditions. This rate is in addition to the recurring cost per amp for power usage.

Extra-ordinary conditions would only include having to add additional electrical capacity. This will be a rare occurrence and these costs need to be recovered on an ICB basis since there is no way to predict the cost or occurrence.

Mati	Source	Cost	
Physical Collocation - 2 Fiber (Single	mode) Cross Connects		
LGX Bay			
Bay Frwk	Network Planning & Support		
Retainers JR4C9	Network Planning & Support		
Lightquide Kit (2)	Network Planning & Support		
Total Material Price	Network Planning & Support		
Circuit Capacity	Network Planning & Support		
Projected Actual Utilization	Network Planning & Support		
LGX Shelf	3 ,,		
Shelf	Network Planning & Support		
Coupler Panel (12)	Network Planning & Support		
SC Coupling (72)	Network Planning & Support		
Total Material Price	Network Planning & Support		
Circuit Capacity	Network Planning & Support		
Projected Actual Utilization	Network Planning & Support		
Fiber Cable	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		
Material Price per foot (\$1,114.02	Network Planning & Support		
Number Feet	Network Planning & Support		Note 3
2 Fiber Circuit capacity per Cable	•		
Projected Actual Utilization	Network Planning & Support		
Connector Price per circuit	Network Planning & Support		
Cable Rack 5" ED4C685 -72			Note 1
Material Price per foot	Network Planning & Support		
Number Feet	Network Planning & Support		Note 3
Circuit Capacity	Network Planning & Support		Note 2
Projected Actual Utilization	Network Planning & Support		
Physical Collocation - Fiber POT Bay			
POT Bay	Al A - 4 Blood - 4 Co 4		
Material Price	Network Planning & Support		
Circuit Capacity	Network Planning & Support		
Projected Actual Utilization			
POT Bay Shelf e/w locks	Alekanda Dianata a A Carenda		
Shelf	Network Planning & Support		
Coupler Panel (4)	Network Planning & Support		
SC Coupling (24)	Network Planning & Support		
Total Material Price	Network Planning & Support		
Circuit Capacity Projected Actual Utilization	Network Planning & Support		

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Note 1: 5 * Cable rack material cost ED4C685-72 G-1

G-10 (homs) G-66 (support detail) G-106 (threaded rod)

Note 2: Assume 24 fiber LGBC OD= Assume cable pileup to max of 5"

Max cables = Circuit Cap =

Note 3: Fiber Duct Components/60ft run 10 - 4x4 Straight Duct 6'

2 - 4x4 Elbow

10 - 4x4 Spilce

5 - Support Details

5 - threaded rod

Total per 60ft =

Matl Cost per Foot =

Fiber Patchcord Capacity from ADC catalog

Assumes 3mm patchcords, 2/ckt

Note 3: Cable length changed from 300 to 330

to match average physical collocation

DS1 cross connect length

(revised 11/6/97)

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11		- Average Cable Longh	<del> -</del>		<u> </u>		ļ				<b></b>	ļ
12			⊢						ļ		<b></b>	
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73		Circuit Capacity	)					<del> </del>			<del></del>	
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37		- Projected Actual Utilization	<i>S</i> .				<del></del> -					
34		Cable Rack	L.,				•			1		
30		Material Pitcs per foot	<del> </del>	5								
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45		Trunk Distributing Frame			1							
46		Material Price		2								
47	<u> </u>	Circuit Capacity	Τ.		I	<u> </u>	1	L	1	1	L	
48	1	Projected Actual Littration	1:									I
49	1	Nerber Required	1					L		1.	1	
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37		- Physics Fool								***		
50	_	Canali Capacity	•									-
59	$\neg$	- Projected Asterd Utilization										
60	-	Cable Rack										
81		Maherial Price per foot	•	5	Rack =	T	April ary to	mina suppor	mdt iunctor	detalls, etc. es	Boneland at	
62		Number Feet				,	-					
65		Circuit Capacity	•		Note 1							
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		Physical Colocation - 051 Gross Connects	•		i							<del></del>
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64	-	-Cabb				T	T					
***		Material Price per feet			1							
69 70		- Number Fool			<del> </del>							
77	-	- Additional Foot II Propositor										
72		-Circuit Capacity			1							
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74	_	Percent Reposter Perpared	i				· · · · · · · · · · · · · · · · · · ·					
75		Cable Rock			1				l			
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77		Number Foot	<del></del>		<u> </u>		<u> </u>					
78		Additional Feet II Repeater					<del></del>					
<del>/</del> 8		Circuit Capacity			Note 2		t		<b></b>			
80		Projected Actual Ultimation	! .		<del></del>	<del> </del>	· · · · · · · · · · · · · · · · · · ·		<del> </del>			
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82		- Playsolus 8-by	<del></del>		1		<del> </del>	t	1			· · · · · · · · · · · · · · · · · · ·
		- Material Price	<del> </del>			<del> </del>	<del>                                       </del>	<del></del>	<del></del>			
83					<del> </del>	<del> </del>	<del> </del>	<del></del>		<del></del>		
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85		— Projected Astrol Uffication			<del> </del>	<del> </del>	<del> </del>	<del> </del>	<del> </del> -		·	<del></del>
86		— Persont Required			<del> </del>	1	<del></del>	<del> </del>	t	· · · · · ·	<del> </del>	
37		_Repeater Shall			<del> </del>	<del>                                     </del>	<del> </del>	<del> </del>	<del> </del>	<del></del>	<del> </del>	<del></del>
88		- Material Price			<del> </del>	<del> </del>		<del></del>	<del> </del>	<del></del>	<del> </del>	<del></del>
8		Circuit Copedity			<del></del>	<del> </del> -			<del> </del>	<del> </del>	<del></del>	<del> </del>
80		— Proposted Aches Ultimber	,		<del> </del> -	ł	<del> </del>	<del> </del>	ļ-~~ <del>-</del>	<del> </del>	<del> </del>	<del> </del>
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92		- Repeater	1		<b></b>	<del> </del>	<b></b>	<del> </del> -	<del> </del>	ļ.——·-	ļ	
22		- Material Prices	1		<del> </del>	<del> </del>	<del> </del>	<del> </del>	<del> </del>			<del></del>
14		— Circuit Capacity	j		<del> </del>	<del> </del>	<del> </del>	ļ. <u></u>	<del> </del>			<del> </del>
95		Projected Actual Ultimites	1			<b></b>	<del> </del>	ļ	ļ		<del> </del>	<del></del>
		— Personi Regulard	1			<b>↓</b>	<del> </del>	<b>├</b>	ļ		ļ	<del> </del>
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90	H 1 12	Physical Colocation - DS3 Cross Corrects			<del> </del>	ل	<u> </u>	<del></del>	<del>├</del>	<u> </u>	<del></del> -	
100		DEX-3 Panel Provided by anot	hat Brand		Required for adja	cour collect	non-	<del> </del> -	<del> </del>	<del> </del>	<del> </del>	
100		_Cebbs	<u> </u>		<del></del>	<del> </del>	<del> </del>	<del> </del>	ļ <u>-</u>	<del> </del>	<del> </del>	<b></b>
101		Material Price per feet		7-048	Hoto-3	<del> </del>	<del> </del>	<del> </del>	<del> </del>	<del>}</del>	<del> </del>	<del> </del>
102		- Corespier Material Price per autile		8 and 10	<del> </del>	<b> </b>	<del> </del>	<del></del>	<del> </del>	<del> </del>	<del> </del>	<del> </del>
103		- Hurber Fool				<del> </del>	<b></b>	1	<del> </del>	<del> </del>	<del> </del>	<del> </del>
104		- Additional Foot X Reporter				ļ	<b></b>	1		<del>  </del>	·I	<del> </del>
105		Number Cables per Chesil				<del> </del>	<del></del>	<u> </u>	<del> </del>	<del> </del>	<b></b>	l
100	$\vdash$	Ciro.A Capacity				J	<b></b>	<del> </del>	·	<del> </del>		<del></del>
197		Projected Ashard Uttanion				<del></del>	<b>↓</b>	↓	<b>↓</b>	<b></b>	<del> </del>	<b></b>
100	1	— Personi Persone Required				1	L		1	Ļ	·	Ļ
105	1	Cathe Rack			1		1		L	L		١
110	1	Mularial Price per foot		- 5	Rack #	ft.	Audiary 1	miles suppr	rt rods, juncti	on details, etc. e	a between	,
1111		Number Foot					1			<b></b> -	L	
111		Additional Foot & Reposter						1		1		
1	1-	Circuit Capacity			Note 4	1		1			1	
	3	Projected Actual Utilization			<del></del>	1		1		1		
114		- Person Reporter Registed			1	T	<del>                                     </del>	1	1	1	1	
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111		- Parada Say			+	<del> </del>	$\top$	1	1	1	T	1
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11		— Circ.41 Capacity			<del></del>	+	<del></del>	+	+	<del> </del>	<del> </del>	<del> </del> -
111		- Projected Asked Ultimites			<del></del>		- <del> </del>	+-	-1	<del> </del>	+	<del> </del>
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182	I											
_	_	Note 1: Assume 26Gs 100 Pr 806A cable		ì	1		i					
183		OD=0 55°			i			1			1	l l
184		7 6" Cable rack with max, 10" pileup										
				<del></del>								
185	1	Capacity = 30/ 56 x 10/0 58 = 54 x 18 = 972										
186		2wire Circuits = 972 x 100 = 97,200										
187		4wire circuits = 872 x 100/2 = 48600										
188												
189		Note 2: Asitane 22Ga 618C 28 per Cable	00 # 0 M*									
		7 6" Cable rack with mer. 10" pleus	00.000						i			
190												
191		Capacity = 30/ 64 x 10/ 64 = 47 x 15 = 752 c										
192		DS1 Circ./ta = 752 x 14 = 10,528										I
193				1								
1	i	Note 3 DS3 cable pricing. BST standards:	i	4		1	l l					i
1		use 735A up to 250" Beyond 250" use		- 1	i				1			
ŀ					3		j					
		734D Assume as even distribution of cable			1	i	}		1			ŀ
1		tungths from 100° to 455° 10% beyond 455°		1	i	1	}					
194		require repeature 90% less than 455"		1	1	1						
$\Box$		Cables between 100 and 250 = 150/355										
1		=42 3%, Cattles between 250 and 455" =				i						i i
ایہ،ا		205/355 = 57.7%	l i			1	1					
193			<del> </del>									
196 197		735A cable utilization = 423 x 90% = 38%										
197		734D cable vilization = 100% - 38% = 62%										
198		734D = \$ 550ft 735A = \$ 348/R									L	
189		\$/R=( 550)=( 82)+( 388)( 38)= \$ 488/R										
∺	_											
700 701 707		Note 4' from note 3, 38% of CS3 cable is 7	154 62% to 2340									
701												
202		735A OD = 122 , 7340 OD = 9 236	ــــــــــــــــــــــــــــــــــــــ	<del> </del>								<del> </del>
203		735A cross section = 122 x 122 = .0148 s										ļ
204		734D cross section = .236 x 236 = 0557 e	g in									
704 705		Cabl rack cross section = 30" x 10" = 300 p	i in									
143	_	Lat X = total cables; 300 = ( 62)(X)( 0557)	/ MYCCY 01481						1			1
<u>∞</u>		TEN A - BARBOR - SAN - LONANA GOOT	1					·				<del> </del>
207		034534X + 005802X = 300	<del></del>					<del></del>	· · · · · · · · · · · · · · · · · · ·			<del>                                     </del>
20.1	_	040196X = 300						<b></b> -		<del></del>		<del></del>
209		X = 7463	<del> </del>					ļ	<b> </b>			<b></b>
210		Capacity = 7463/2 = 3732	l	L				ļ	L			ļl
711		735A cabbs = 38 (7463) = 2836				L				L		L]
217		734D cabbs = .82(7483) = 4827	1								1	1
1414		I John Carrier - Joseph - Joseph - Total							I			
恶		Assume this same mix for adjacent colocal	Ť'		<del> </del>				<b></b>		<del></del>	
214			ļ	<del></del>				<del> </del>			<del> </del>	<del> </del>
215		1	<del></del>		<u></u>						<del></del>	
210		Nate & DCO-POT Consists of following	1	<u> </u>		L						I
217		Chy - 1 uphranad T math @-						L	L	l	<u></u>	ll
				T								
215		Oby -14 magic many house &	. ——	<del></del>	· · · · · · · · · · · · · · · · · · ·			1				
219		Total POT Bay A		<del> </del>							1	<del> </del>
220	L	L	<del> </del>	<del></del>	<del> </del>		<del></del>	<del> </del>	t	<del></del>	t	
721		Corn. St. Hall per 35. 2 wire olds.	<u> </u>	<del>                      </del>	<del></del>		ļ	<del> </del>		<del></del>	ł	·
222	-	City -1 -500 mby tilds @		L	l	L	l	L	ь		l	ļ
273	Ι	Ch. 4 - SOL1 Com HE @	1			l		L	l			l
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224	-	Ch SO C SHAPE PARTY OF	+	<del> </del>	<del></del>	<del> </del>		<del> </del>	1			
22	L	Total DEO Corn Street		<del></del>	<del> </del>	<del></del>		<del></del>	<del></del>	<del> </del>	<del> </del>	<del> </del>
235	T	Note & prices qualed from / But Supply 11/	i/94	<u></u>	L	<b>!</b>	<b></b>	ļ	<b></b>		<del> </del>	<del> </del>
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		Note & DE1 and DE3 POT Bay serents of		1	T			1	1	I	1	
228	<b>!</b>	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	<del></del>	+	<del> </del>	<del> </del>	·	1	1	T	T	
221		Oly: 160 80501 50 G1 79. Noted: Bay Fre	<u></u>	+	<del></del>	<del></del>	<del></del>	<del> </del>	<del>                                     </del>	<del> </del>	<del> </del>	t
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		12 4 7 50 and mad bank 6 4 5			T	T				1		1
23	1	Note 7: 5" cable rack - length 8" 8 5"	<del></del>	<del> </del>	<del> </del>	1	<del>                                     </del>	1		<del> </del>	1	
23	H	Oty of 1 ED4C685-72 Q1 Q	<del></del>	<b>_</b>	<del></del>	₩	<del> </del>	· <del> </del>	<del> </del>	<del> </del>	+	<del></del>
23	¥	Qty of 1 ED40865-72 G10 Q			L	I	<b>↓</b>	<del></del>	<b></b>	<del> </del>		<del> </del>
72	1-	Total = \$'.			J	1	L	<b></b>	<b></b>	1		
44	3		·	1	1			1	L		<u> </u>	<u> </u>
23		1										



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Price Details			
Lucent Product ID: ED6C736-30 Contract No: Description: DOUBLE SIDED CONVOISTRIBLE			Item 1 of 1
Price Type	Unit Price	Price Multiple / United Measure	Cty Breek
Net Price (D)  Delivery Interval:	Stocked		
Order Multiple City: N/A Merchandise Class:	Omahe ME		
Notes:	i mais e <b>na</b>		
Add to my save	ed product list: Pleas	se Select 🔻 .	2
Vie	ew product list: Pleas	se Select ▼	2
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Help o	n this activity	Return to price qu	netA
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By initiating any Electronic Commerce transaction herein related to the purchase of goods from Lucent Technologies, you are deemed to have accepted the Electronic Commerce Rules of use.

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ADD 10% to BASIC FRAME COST TO

COVER MISC. ASSOCIATED HARDWARE SUCH AS ASSIGNATION BOARDS, ETC.

Not for Disclosure (Fig. 1) buth

Except by Writiel agreement

1 of 1

2/14/00 1:50 PM

COLLOCATION	KEY	& CARD COSTS	
	140.00		

1 St_ PSM

-H ? 字一,-

I. Material costs - Key:					
Material Cost					
tage Cost					
best (contractor) mark-up ordering charge - future projected					
cost, based on contract terms*					
Total					
	†				
II. Material costs - Card:					
Material Cost per New Security Access Card					
Postage Cost per New Security Access Card	<u> </u>				
Total					
	<u> </u>				
III. Access Device - Card and key issued per person	<u> </u>				
Key Material Cost	↓			1	
Key Postage Cost	<u> </u>				
Key - Best (contractor) mark-up ordering charge - future	1			1	
projected cost, based on contract terms*	<u> </u>			·	
Material Cost per New Security Access Card	<u> </u>		•		
Postage Cost per New Security Access Card			•		
The following costs are common to cards and keys:	<u> </u>				
Contractor costs:					
Annual contract Labor cost (3.5 people) (year 2000)					
1-Siemens and 2.5 Strategic employees (Includes some		_			
overtime)					
			<del></del>		
Annual contract Labor cost (5.0 people) (year 2001)		·			
1-Siemens and 4 Strategic employees					
Annual Productive Contract Labor Hours per Person = 1960					
		$\sum$			
BST Headcount:		7		Headcount	
JG58 (CURRENT)					0.5
JG56 (PROPOSED)					1.0
				1	

*When keys ordered exceed 22,860 annually, this mark-up applies.

PROPRIETARY
Not for Disclosure Gelside BellSouth
Except by Written Agreement

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134	ď	H 1 13	Physical Collegeion - 2-Wire POT Bay													
135			POT Bay			]										<del></del>
136			Material Price			_			Note 5							
137 138			Orolf Capacity									<del></del>				
134			Projected Actual Utilization													
139			Termination Stock w/Bridging Clips													
140			Material Price						Picto 6							
141			Circuit Capacity Projected Actual Utilization	l												
調	_ 1		Projected Actual Utilization	L												
143				<u> </u>										_		
냶	PL.	H 1 14	Physical Collectation - 4-Wire POT Bay	<b>.</b>												
145		<u> </u>	POT Bay						l							
117			Meterial Prope	<del></del>					Note 5							
147			Circuit Capacity	<b></b>												
119			Projected Actual Ultimation	<del></del>	<del> </del>				<del></del>	<b></b>	· · ·					
148		├	Terretration Block witniging Clips	<del> </del>	<del> </del>				Nada S	<b> </b>	<b></b>		<b></b>			
157			Material Price		<del></del>				Needs &	<del></del>	ļ					
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끊			Projected Acked Utilization		<del></del>					<b>⊢</b>						
岢		L	Physical Coloculon - D81 POT Bey						Note 6	<del> </del>			ļ	<b></b>	ļ	
냺	<u>n</u> .	11 12	POT Bay						Legis B	<del> </del>			ļ			
1:3	_		Material Price	<del> </del>				11 md 12		<del> </del>						
1:3		<del></del>	Circuit Capacity	<del> </del>	<del></del>					<del></del>	<del> </del>		<del> </del>	<del> </del>		<del>                                     </del>
1		<del> </del>	Projected Actual Utherston	<del> </del>	<del> </del>				<del> </del>	<del>                                     </del>	<del></del>		<del> </del>	<del> </del>		<del>  </del>
3 3 3 3 S	_		POT Say Shall	<del> </del>						<del> </del>			<del> </del>	<del> </del>		<del> </del>
160		<del> </del>	Material Price	<del> </del>				13		<del></del> -	<del> </del>		<del></del>			<del> </del>
101		-	Chroit Capacity	t	<del></del>					<del> </del>		<del> </del>	<del> </del>	<del> </del>	<del> </del>	<del> </del>
162		<del> </del>	Projected Actual Utilization	1					1					<del> </del>		<del> </del>
160		-	POT Bay Medule	1	+				1	<b></b>						·
164		_	Material Prices	1				14		1	1			-		<del></del>
164		<del> </del>	Circ.A Capacity		<del>                                     </del>				1	1				<del> </del>		
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100	R.	H 1,10	Physical Culturation - D63 POT Bay	<del></del>					Note 6				T "	Ī		<del></del>
189	<del></del>	1	POT Bay	1	1					1	1			I		
170		1	Muturial Price	T				11 and 12			I					
177	_	T	Circuit Capacity	1												<u> </u>
识		1	Projected Actual Utilization													
177	$\overline{}$	1	POT Buy Shalf	1					L						I	
1144	_	1	Meterial Price	T	T			15		l				1		
177		1-	Circ.R Capacity		T					I	I <u></u>					
176		1	Projected Actual Utilization	T						1		1				
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174		1	Material Price	T				16		L						
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181		1		1	T				L			L		I		
102	$\vdash$	+	†	1										L		
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Meti			
eu	Source	Coet	
Physical Collocation - 2 Fiber (Singlemode) Cross C	annects.		
LGX Bay			
Bay Freik	Network Plenning & Support		
Retainers JR4C9	Network Plenning & Support		
Lightquide Kit (2)	Network Planning & Support		
Total Material Price			
Circuit Capacity	Network Planning & Support Network Planning & Support		
•	•		
Projected Actual Utilization	Network Plenning & Support		d ababasa and ba data and data 94 days a large of the same of
LGX Shelf	Makanda Manadan A. P. annad		( shalves will be fully egp'd for 72 fiber terminations when mittely installed
Sheff Coupler Periol (12)	Network Planning & Support		
	Network Plenning & Support		
SC Coupling (72)	Network Plenning & Support		
Total Malanal Price	Network Planning & Support		
Circuit Capacity	Network Plenning & Support		·
Projected Actuel Utilization	Network Planning & Support		
Fiber Cable (2 fiber bldg cable)			
Marenui Price per foot (\$33.3% 100)	Network Plenning & Support		
Number Feet	Network Planning & Support		Note 4 Note - add total 15ft for drop ands - 345ft
	•	-	•
Projected Astual Utilization	Network Planning & Support		
SC Plug Price (11 80 eo ; 4 per 2-fiber cable	Network Planning & Support		Note 5
Sub total catala & SC plugs			··· <del>······················</del>
Fartory assembly charge costimaters:			
Total plug expluit form and			
Lean had public a more than to			
Cable Rack 5" ED4C665 -72			Note 1
Metertal Price per foot	Network Plenning & Support		NOW 1
Number Feet			Note 4
	Network Plenning & Support	•	
2 fiber Circuit Capacity	Network Plenning & Support		Note 2
Projected Actual Utilization	Network Plenning & Support		
Fiber Cable (4 fiber bldg cable)			
Material Price per frict (\$55 96/100)	Network Planning & Support		
Number Feet	Network Planning & Support		Note 4 Note - add total 15ft for drop ends - 345ft
	•		
Properted Actual Utilization	Network Planning & Support		
SC Plug Price (11 80 ea ii f. per 4-filter cable	Network Planning & Support		Note 5
Sub-team cation & SC shipe			
Faltory assembly energo ( -stimater):			
Total plug supid a fiber , at-m			
• • •			
Cable Rack \$* ED4C665 -72			Note 1
Material Price per foot	Network Plenning & Support		
Number Feet	Network Plenning & Support		Note 4
4 fiber Circuit Capacity	Network Plenning & Support		Note 2
Projected Actual Utilization	Network Plenning & Support		· · · · · · · · · · · · · · · · · · ·
Projected Action Description	Manager Parage Support		
Physical Collocation - Fiber POT Bay			
POT Bay	Alexander Branch		
Meterial Price	Network Planning & Support		
Grout Capacity	Network Plenning & Support		
Projected Actuel Utilization			•
POT Bay Shelf e/w locks			
Shelf (12 ckt, 24 fiber cpecity)	Network Plenning & Support		POT bey shelves will be exp'd with coupler penels and couplers as req'd based upon service rec
Coupler Panel (1 per 5 fibers, 4 mex)	Network Planning & Support		One coupler panel is required to terminate a 6 fiber cable
SC Coupling (1 per fiber, 24 max)	Network Plenning & Support		Six couplers are required per 6 fiber ouble
Projected Actual Utrizzation			
Ex. age from cable storage shalf	Network Planning & Support		assume 1 per 24 2-fiber citts, occupies one of max. 12 POT shalf positions in POT bay
Direct Interconnection Cable Support			
(deta provided for computation of cable support cost/linear	r foot. billing should be beend uno	n installed cable circui	t cacearty not circuits placed in service)
familia to a symmetrial and a second symmetrial programmer and the second symmetrial programmer and the second symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial symmetrial			••••
DS0			
Ceole Rack			
Material Price per foot	Network Plenning & Support		
Material Price per 1001 Circuit Capacity			
Projected Actual Utilization	Network Planning & Support	use DS0 sconn	
Proposition Parameter Constitution		THE COLUMN	
051			
Cable Rack	Natural Bloom 2 =		
Material Price per foot	Network Planning & Support		

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Page 1



Network Plenning & Support Circuit Capacity Projected Actual Libitzation Cable Rack Materiel Price per foot Network Planning & Support Circuit Cepecity Network Planning & Support use DS3 xoonn Projected Actual Utilization FIBER Cable Rack (5 inch) Network Plenning & Support Material Price per foot Updated to reflect 2 fiber bldg cable capacity Network Planning & Support Circuit Capacity Projected Actual Utilization Note 3 Network Planning & Support Material Price per foot Network Planning & Support Circuit Cecenty sea 1 5 * Cable rack m ED4C885-72 G-1 (rack) ⁴ G-10 (home) G-65 G-105 (support detail) (threaded rod) Note 2 For 2 fiber LGBC OD = 19" Assume capic pileup to max rif 5" 2 Filter cercuit (24p = 771 X 1 ± 771 For 4 liber LGBC OD = 1857 Essume nable pileup to mus of 5" Max cackes = 5" 185 X 5/ 185 + 730 4 Fiber circuit cap = 730 X 1 = 730 Note 3: Fiber Duct Components/60ft run 10 - 4x4 Streight Duct 6" 2 - 4x4 Elbow 10 - 4n4 **Spice** 5 - Support Detail Total per 60ft = Meti Cost per Foot = Fiber Petchoord Capacity from ADC catalog Assumes 3mm petchoords, 2/ckt Note 4, Cable length changed to 300 ft. plus 15ft for avg (7.5 it rimp on both ends) Note \$ Each fiber within a cable must or hap a with an SC plug on each end of the lumi. Assume a 24 Cher cabbi will be eqp'd with 48 connectors, a 6 litter cable will be egg if with 12 connectors, sto

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RFP No. 99-07-06-LTH Attachment A, Revision 2 Page 4 of 6

#### 6' x 24' CONTROLLED ENVIRONMENT VAULT

ITEM	DESCRIPTION	QTY	UNIT PRICE	EQ <b>PT</b> TOTAL	TOTAL INST. MATERIAL	TOTAL INST. LABOR
	DISCHS HDT EQUIPMENT		٠,			
1A	HDT IFITL Bay e/w 7 OCS RDSC Code RM6506007	.7				
	-48VS Fuse & Alarm Panel (J-C2001L12)	2				
	Alcos Fujikura Octal Jumpers					
	Bays 1-4, 31 Feet, SC/SC	4				
	Bays: 5-7, 22 Feet, SC/SC	3				
	Data Cable Set (1 per IFITL Bay)	7				
	7 DISCHS HOT BAYS TOTAL					
		٠.				
18	HDT IFITL Bay e/w 7 OCS RDSC Code RM6506007	R				
	-48VS Fuse & Alarm Panel (J-C2001L12)	3				
	Alcoa Fujikura Octal Jumpers					
	Bays 1-4, 31 Feet, SC/SC	4				
	Bays 5-8, 22 Feet, SC/SC	4				
	Data Cable Set (1 per IFITL Bay)	8				
	8 DISCHS HOT BAYS TOTAL					
ıc	HDT IFITL Bay e/w 7 OCS RDSC Code RM6506007	9 '				
	48VS Fuse & Alarm Panel (J-C2001L12)	3				
	Alcoa Fujikura Octal Jumpers					
	Bays 1-4, 31 Feet, SC/SC	4				
	Bays 5-9, 22 Feet, SC/SC	5				
	Data Cable Set (1 per IFITI. Ray)	9				
	9 DISCHS HDT BAYS TOTAL					

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RFP No 99-07-06-LTH Attachment A. Revision 2 Page 5 of 6

#### 6' x 24' CONTROLLED ENVIRONMENT VAULT

ПЕМ	DESCRIPTION	QTY	UNIT PRICE	EQFT TOTAL	total inst. Material	TOTAL INST. LABOR
	POWER TRANSFER SWITCH		·.			
. 2	200 Amp JuiceBox RJBD200MXRBS	1				
	JuiceBox Template (F003488)	t				
	BASIC STRUCTURE					
JA	Oldcastle 6' X 24' CEV	1				
38	Capital Concrete 6' x 24' CEV	ι				
	DISTRIBUTING FRAME					
4	800 Frame	5				
	100 Pr. Cross Connect Block	27				
	DS-1 CROSS CONNECT					
5	DIXI-84 DS-1 DSX Panels	2				
6	800 Frame	2				
	56 Pr. Cross Connect Block	A				
٠.	MULTIPLEXER					
7A	FLM-150 Multiplexer System	2				
. 7 <b>B</b>	DDM-2000 Multiplexer System	2				
	LGX / FIBER MGMT.					
	Feeder 24F LGX (108319849)	ı				
9	Dist. 144F LGX (108349390)	S				
10	CEV Fiber Management System	ı				
			PRUDDILLIDA			

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RFP No. 99-07-06-LTH Attachment A. Revision 2 Page 6 of 6

### 6' x 24' CONTROLLED ENVIRONMENT VAULT

ITEM	DESCRIPTION	QTY	Unit Price	EQPT TOTAL	TOTAL INST. MATERIAL	TOTAL INST. LABOR
	REPEATER				•	
11	Wescom STS 3192 System	.1 :				
	POWER EQUIPMENT					
12	Power Plant	f				
13	Battery Stands (PM0125-4CB)	2				
	Batteries FIAMM (FL0125BE 125 AH)	16				
	MISC. EQUIPMENT					
14	Iron Work & Cable Rack	1				
	Ground System	1				
	Fiber Ducting System	t				
	Pwr. Harness for PC Data & Video	1				
	MISC. FUSE PANEL					
15	Misc. Fuse Panel	2				
	MISC. EQUIPMENT RACK					
16	Misc. Equipment Rack	5	•			
	ALARM CROSS CONNECT SYSTEM					
17	Alarm Cross Connect Panel	2				
	PROTECTION					
18	Protection Frame Assembly	1				
	307C2-100 Protection Block	14				

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Ordering Guide June, 1999

MESA 6 Models

**701** 

CUSTOMER:

BELLSOUTH TELECOMMUNICATIONS, INC.

**BASE MODEL CODE:** 

XRM6200

CONFIGURATION:

MESA 6 Remote Terminal Cabinet Equipped with Three (3) DISC*S Common Shelves, One (1) DDM 2000 Mux Shelf, Zero (0) STS 3192 Repeater Shelves, (1) DIXI Panel, and wired for (21) Copper Channel Shelves.

ITEM	BASE MODEL HARDWARE	PRODUCT CODE	QTY
1.0	MESA Cabinet Assy consist of:	JC0402L1	1
1.1	MESA Cabinet	F003196	1 1
1.2	Fuse & Alarm Panel	4100892L3	3
1.3	Common Shelf	4100891L2	3
1.4	Modular Power Shelf	72-07-954	1
1.5	DC Distribution Panel	73-16-598	1 1
1.6	Marconi 325 Protector Block (2300pr)		1
1.7	Alarm Cross Connect Panel	45-508-49	1
1.8	Battery Termination Panel	73-16-599	1
2.0	DDM-2000 Wired for 84 DS1s	JC0402L19	1
2.1	DDM-2000 MUX Shelf Kit: CABDDMKIT		1 1
	P1D: 665950820		
2.2	DDM-2000 2C Fan Unit		[ 1 ]
3.0	DIXI Panel KIT: CABDIXIPANEL	. JC0402L12C	1
3.1	DIXI Panel PID: 410970149	<u> </u>	1
4.0	900 Type DSX	JC0402L61, L69	1
	KIT: CAB900DSXM6KIT PID: 409970142	,	1
4.1	900 Type DSX	i	1
5.0	Thermal Runaway Unit	JC0402L35	1
5.1	Thermal Runaway Unit		1
6.0	Ringing Generator Shelf	JC0402L18	1
6.1	SFT7 Ring Generator Shelf		
7.0	MESA 6 Documentation consists of:		
7.1	MESA 6 Description & Install, Practice	640-250-612C	1 1
8.0	6V-160AH Batteries	JC0402L32	2/3

ITEM	BASE MODEL PLUG-INS	PRODUCT CODE	QTY
9.0	Power and Ringing Plug-ins		-
9.1-	Modular Rectifiers	41-308-39	2
9.2	Ringing Generator Modules	487110900	2
10.0	LIU Test Connector	41-008-39	2
11.0	Adapter Null Modem	41-008-46	1

Marconi Communications

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**Marconi Communications** 

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V.	ST	GLC	Location	Sq. Ft.	Cost	City Coat Inday	Matienal Cost	Commente
1	121	1000		1 - A - 1 - 1	- Just	City Cost Index	National Cost	Comments
1		1	ALABAMA	1	1	1 1		
99	14	11616	Canaba Harghis - CO Addron	10300	\$1,780,000	0.871	\$2,043,628	***
00		11734	Heroevde - CO Addition	2000			\$424,799	
99	AL	11831	Huntaville Madeon - CO Addition	3600			\$882,709	
100	AL	11813	Huntaville University CO Addition	6000				
99		12340	Monde Bay Front - CO Addition	1136			\$1,571,947	
1 33	- ^L	1,2340		+		0 034	\$533,573	
	<del> </del>	<del></del>	Notice of Aug Costice &		34.025.000		\$5,456,656	
		<del> </del>	National Avg Cost/sq.ft.					
<u> </u>	<del> </del>	<del> </del>	Alabama Avg. Cost Index		<del> </del>			
<b>—</b>		<del> </del>	Investment/sq ft.		<del> </del>			
<u></u>	<b>_</b> _	<b></b>	AVG. COST /SQ. FT	3199.04	<b> </b>			
<u></u>		<b>.</b>	<del></del>	<del></del>	ļ	ļ		
1	1	l	Florida	l	) i			<del></del>
99	FL	31536	Chiptey - CO Addition	2800	\$561,000	0.796	\$704,774	
00		32273	Generale MW - CO 2nd Floor Add	4000		0.841	\$1,902,497	
- 00	FL	46506	Golden Cliedes CO Addrton	10500		0.866	\$5,889,145	
8	FL	31241	Jacksonville Beachwood - CO Addn	1792		0.841	\$1,664,685	
- 80	FL	39290		3100		0.861		
			Lake Mary CO Addition				\$2,003,484	<del></del>
80	FL	31040	Mendern - CO Addition	6148		0.841	\$1,724,138	
00	FL	31648	Overto - CO Addition	2560		0 861	\$1,457,607	
00	FL	58600	Port St. Lucie CO Addition	3200		0.883	\$2,463,194	
99	FL	E5636	Royal Pakris - CO Addition	5308		0 869	\$156,502	
99	FL	E8636	Vero Beach - CO Addition	3158		0.683	\$1,528,879	
8	FL	E9519	WPSH Gerdens - CO 2nd Floor Add	20754	\$8,601,000	0.869	\$9,897,583	
			TOTAL	63320	\$25.353,000		\$29,392,489	
		<u> </u>	National Avg Cost/sq.ft.					
			Florida Avo. Cost Index:					
			Investment/sq ft.:					
			AVG, COST /SQ. FT.:	\$400.39				
1			Georgia				]	
- 00	GA	P5602	Bufons, 2000	5966	\$1,728,000	0.884	\$1,954,751	Bids in, ready to start const.
- 60	GA		V#4 Rc42000	4075	\$2,125,000	0.884	\$2,403,846	Under construction
8	_			9600	\$3,781,000	0.884	\$4,277,149	Under construction
80	GA CA		Feyeteville - CO Address, 2000	9600		0.884	\$2,289,593	Bids in, ready to start const.
	GA		Peedline City CO Addition, 2000		\$2,024,000			
_00	GA		Powder Springs - CO Addition, 2000	4275	\$1,310,000	0.884	\$1,481,900	Bids in, ready to start const
99	GA		Powers Ferry, 189942000	26970	\$5,350,000	0.884	\$6,052,036	Under construction
99	CA		Tallepoose - CO Addition, 1999	987	\$288,000	0.884	\$325,792	Completed, Actual Costs
99	GA	R2164	Gey - CO Addition, 1989	567	\$195,000	0.884	\$220,588	Completed, Actual Costs
	SA.		Norcross CO, 1998	17880	\$1,955,485	0.884	\$2,212,087	Completed, Actual Costs
98	GA		Woodstook CO, 1996	6400	\$1,897,000	0.884	\$2,145,928	Completed, Actual Costs
98	CA		Durmondy CO, 1995	16390	\$3,003,520	0.884	\$3,397,647	Completed, Actual Costs
			TOTAL	102710	\$23,657,005	<u> </u>	\$26,761,318	
			National Avg Cost/sq.ft.:			ncluding Planning data		
			Georgia Avg. Cost index:			ncluding Planning data		
1	1	<u> </u>	Investment/sq.ft.:					
	I		AVG. COST /SQ. FT.;	\$230.33				
	7	1	Kentucky	7		1	J	
99	KY	52470	Gerden Village - CO Addition	448	\$166,000	0.854	\$194,379	
99	KY		S Willamson - CO Addition	384	\$181,000	0.854	\$211,944	<del></del>
49		-41/27	·	832	\$347,000		\$406,323	
			Netland Ave Carthe 2 :		\$347,000		\$440,023	
	-4		National Avg Cost/sq.ft.:					
	_4		Kentucky Avg. Cost Index:					
			investment/sq.ft.:					
$\rightarrow$			AVG. COST /SQ. FT.:	\$417.07				
- 1	- 1		Louisianna	J	]	1	j	
-	-	K3266	Denham Springs CO - Addition & HVAC	1600	\$340,000	0.828	\$410,628	
			Shravapart College - Addition & HVAC	3200	\$990,000	0.805	\$1,229,814	
				4800	\$1.330,000		\$1,640,442	
	$\neg \dashv$		National Avg Cost/sq.ft.:					
		<del></del>	ouisianna Avg. Cost Index:					
-			Investment/sq.ft.:					
			AVG. COST /SQ. FT.:					
				00.114			<del></del>	
_ }	]	' <b>J</b>	<u>Mississippi</u>					
00	MS.	72126	Brandon CO Add (Jeckson Ranion)	2500	\$680,000	0.79	\$860,759	
00	45		NA e C O - Building Addison	1600	\$560,000	0.768	\$729,167	
	$\neg$			4100	\$1,240,000		\$1,589,926	
			National Avg Cost/sq.ft.:					
	- 1	,				1_		
_		i					I	
		<u>M</u>	ississippi Avc. Cost Index:	0.79				
				0.79 \$306.35				

STATE	AVG COST PER SQUARE FOOT	WEIGHTING	ADJUSTED AVG COST
Alabama	\$110	0.094	\$10.34
Florida	\$198	0.306	\$60.57
Georgia	\$69	0.133	\$9.18
Kentucky	\$33	0.032	\$1.05
Louisiana	\$105	0.092	\$9.62
Mississippi	\$11	0.024	\$0.26
North Carolina	\$116	. 0.133	\$15.42
South Carolina	\$136	0.067	\$9.15
Tennessee	\$46	0.119	\$5.51
	\$92		\$121.11

Note: Weighting based on number of firm orders received between April and November 1999. UNIT COSTS:

cage cost set fee	\$7,071
barrier wall 1hr cost/ft	\$100
barrier wall wire cost/ft	\$60
card reader	\$14,237
card reader - pad only	\$2,640

Data Points =	123
FOs 4/1-8/31/99	594
Percentage =	21%

Note: Many data points represent more than one collocator/firm order, thus percentage above is low.

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#### FL Collocation Flat Fee

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JCBHFLMA.DLT.01	734808-81291	2	1	21.5	308	887	_1_	\$27,294	\$74,565	\$1,360	\$103,219	\$73,550	\$82.92
JCVLFLCL.ATX.02	734808-80141	1	0	0	400	520	0	\$17,751	\$34,209	\$0	<b>\$51,960</b>	\$44,889	\$86.33
JCVLFLCL.FDW.03	732822-25751	1	0	0	200	260	0	\$20,181	\$30,105	\$0	<b>\$</b> 50,286	\$43,215	<b>\$</b> 166.21
ORLDFLCL.FDW.03	734808-80811	1	0	98	200	260	1	<b>\$</b> 33,571	\$31,016	\$0	\$64,587	\$37,399	\$143.84
ORLDFLCL.ICF.01	732822-22941	1	0	96	300	399	11	\$32,759	<b>\$51,734</b>	<b>\$</b> 0	\$84,493	<b>\$</b> 57,425	<b>\$</b> 143.92
ORLDFLCL.LVC.01	732822-25741	1_	0	263	400	2475	1	\$44,572	\$124,270	\$1,183	<b>\$</b> 170,025	<b>\$</b> 132,937	\$53.71
ORLDFLMA.FDW.05	732822-25921	1	0	0_	200	260	0_	\$27,431	\$54,736	\$0	\$82,167	<b>\$</b> 75,096	\$288.83
PNVDFLMA.DLT.01	734808-81571	0	1	0	8	225	0	<b>\$</b> 15,949	\$36,463	\$0	<b>\$</b> 52,412	<b>\$</b> 52,412	\$232.94
MIAMFLWM.NVE.02	734808-80101	1		0	100	305	0	\$20,389	\$40,761	<b>\$</b> 0	<b>\$</b> 61,150	\$54,079	\$177.31
MIAMFLBA.NVE.03	734808-82031	4		0	100	310	0	<b>\$</b> 18,074	<b>\$</b> 75,432	\$0	\$93,506	<b>\$</b> 65,222	\$210.39
MIAMFLBA,FIM.01	734808-80931	1		0	100	300	0	<b>\$</b> 37,393	\$68,407	\$0	\$105,800	<b>\$</b> 98,729	\$329.10



#### FL Collocation Flat Fee

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										N. Paris			
												V.	
MIAMFLSO.NVE.01	734808-82051	1			115	130	0	\$11,881	\$25,310	\$2,047	\$39,238	<b>\$</b> 32,167	\$247.44
MIAMFLSO.FIM.01	734808-81041	4		0	100	130	0	\$27,504	<b>\$</b> 53,943	\$0	<b>\$</b> 81,447	\$53,163	\$408.95
MIAMFLBR.NVE.01	734808-80181	2		0	400	520	0	\$18,062	\$94,171	\$0	<b>\$</b> 112,233	\$98,091	\$188.64
PRRNFLMA.AKJ.07	734808-81741	1		0	100	690	0	<b>\$14,452</b>	<b>\$</b> 135,674	\$0	<b>\$</b> 150,126	<b>\$143,</b> 055	\$207.33
MIAMFLFL.AKJ.02	734808-82201	1		0	100	130	0	<b>\$</b> 13,459	\$14,480	\$1,738	\$29,677	\$22,606	<b>\$</b> 173.89
MIAMFLBA.AKJ.04	734808-86081	1		0	100	130	0	\$17,144	<b>\$</b> 15,585	\$0	<b>\$</b> 32,729	<b>\$</b> 25,658	<b>\$</b> 197.37
MIAMFLAP.OVC.03	734808-81501	1			100	130	0	<b>\$</b> 13,323	\$21,409	\$2,076	\$36,808	\$29,737	\$228.75
MIAMFLAP.AKJ.02	734808-81581	1			100	130	_0_	<b>\$</b> 11,550	\$21,230	\$0	<b>\$</b> 32,780	<b>\$</b> 25,709	<b>\$</b> 197.76
MIAMFLAP.ATX.01	734808-80281	1			400	1200	0	<b>\$</b> 31,177	\$121,019	\$0	<b>\$</b> 152,196	<b>\$</b> 145,125	<b>\$</b> 120.94
MIAMFLWD.AKJ.02	734808-81651	1			100	130	11	<b>\$</b> 17,015	\$29,624	<b>\$</b> 0	<b>\$</b> 46,639	\$25,331	\$194,85
PRRNFLMA.NVE.03	734808-82021	1			100	130	0	<b>\$</b> 10,668	\$25,154	\$0	\$35,822	<b>\$</b> 28,751	\$221.16



FL Collocation Flat Fee

PRRNFLMA.ATX.01	734808-83271	1			400	520	0	<b>\$</b> 19,470	\$86,020	<b>\$</b> 0	\$105,490	<b>\$</b> 98,419	<b>\$</b> 189.27
MIAMFLBR.FIM.01	734808-80921	1			100	1680	1	\$36,405	<b>\$</b> 142,162	<b>\$</b> 1,042	\$179,609	<b>\$</b> 158,301	<b>\$</b> 94.23
MIAMFLBC.AKJ.02	734808-81731	1			100	1809	0	<b>\$</b> 22,725	\$195,235	\$0	<b>\$</b> 217,960	\$210,889	\$116.58
MIAMFLSQ.AKJ.05	734808-81841	1			100	130	0	\$12,906	\$22,402	\$0	\$35,308	\$28,237	\$217.21
	734808-80631	1			100	305	0	\$19,092	\$20,712	\$0			
MIAMFLWM.FIM.03											\$39,804	\$32,733	\$107.32
MIAMFLWM.ACI.04	734808-81961	1	<del>                                     </del>		100	305	0	\$19,344	\$21,217	\$0	\$40,561	\$33,490	\$109.80
MIAMFLFL.FIM.02	734808-81641	1	$\sqcup$		100	130	0	\$9,318	\$14,083	\$0	\$23,401	\$16,330	\$125.62
FTLDFLJA.FIM.06	734808-82081	1		5.5	100	1,640		\$14,264	<b>\$</b> 78,951	<b>\$</b> 0	<b>\$</b> 93,215	\$85,814	<b>\$</b> 52.33
PMBHFLCS.OVC.03	732822-25111				100	130		\$24,558	\$38,614	\$3,452	\$66,624	\$66,624	<b>\$</b> 512.49
		1			100	130		<b>\$</b> 12,528	\$42,730				
PMBHFLFE.AKJ.03	734808-82221	1	1		100	130		<b>∌</b> 12,328	<del>34</del> ∠,/30	\$1,208	\$56,466	\$49,395	\$379.96
PMBHFLMA.ATX.02	734808 81011	1			400	1,668	<u> </u>	\$32,359	\$140,133	\$0	\$172,492	\$165,421	\$99.17



#### FL Collocation Flat Fee

HLWDFLPE.ATX.01	734808 83101	1	400	520	\$19,607	\$42,248	\$0	<b>\$</b> 61,855	<b>\$</b> 54,784	\$105.35
HLWDFLPE.AKJ.07	734808 86061	1	100	130	\$18,685	\$33,833	<b>\$</b> 0	<b>\$</b> 52,518	<b>\$</b> 45,447	<b>\$</b> 349.59
HLWDFLPE.OVC.04	732822-25101		100	130	\$19,124	\$27,412	\$253	<b>\$46,78</b> 9	<b>\$</b> 46,789	\$359.91

Average

\$198



#### Collocation Space Preparation Standard ICB Rate Worksheet (Network Construction) Issue 2 - 1/6/09

Driver Description	# Vendor	First Unit Engrg Hrs. Labor Hrs. Minor Matl. Avg	Subsequent Units Engrg Hrs. Labor Hrs. Minor Matl. Avg	Cageless City FU's City SU's Total \$	Caged or Non-conventional Cageless \$/Sq.Ft. City FU's City SU's Total \$ \$/Arrangement
Cable Rack - panned 15" (switchboard)	ADC 6R Lucent	2.35 5.00	2013 3 92		
Cable Rack - nonpanned 15* (power)	102 ADC 6R Lucent	195 500	1.20 3.92	X-5-3-1	<b>30</b> 500000000000000000000000000000000000
Cross-aisle cable rack	104 ADC 6R Lucent	1.70 2.67	1.20 2.33		10000000
AC - main feed to bay	105 ADC 6R Lucent	250 700	0.85 0.50		<del></del>
Auxiliary Supports	107 ADC 6R Lucent				
Stanchion	108 ADC 6R Lucent	1,97 3,97	0.83 3.60		
Main Aisle Conduit	109 ADC 6R Lucent	1.62 2.17	0.70 2.00		
Main Aisle Ground 2/0	110 ADG 6R Lucent	108 317	0.86 2.84		
Light Fixture - double tube	114 ADC 8R Lucent	2.00 4.87	1.17 3.92	MONTH CONTRACTOR	
Cable hole establishment	115 ADC 6R Lucent	1.67 5.00	0.75 333		NAME OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PR
Fiber Duct (Use 50% of driver # 11)	11	4.00 3.28	1.38 3.26	**************************************	
Cagalass \$/Sq. Ft.					. • .

Caged or Nonconventional Cageless \$/Arrangement



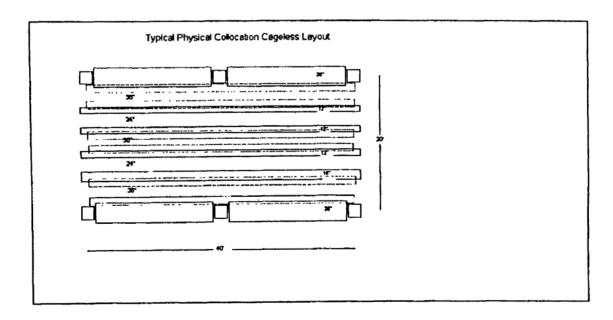
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#### Assumptions:

BellSouth expends infrastructure capital immediately to prepare space. BellSouth has no control over utilization of this investment. The investment benefits no other service other than Collocation. Therefore, recovery of infrastructure costs should begin immediately without regard to activation of service. above. The cost calculations are based upon preliminary "driver" costs provided to Supply Chain Management by three Turf Vendors and a theoretical average arrangement of collocated equipment within this 800 sq. ft.. From these calculations the average EF&I cost/sq.ft. is determined. From the avg. EF&I To accomplish this for caged or cageless non-conventional collocation the average EF&I space preparation cost to prepare 800 sq. ft. (2 building bays) of collocation space is calculated above. The cost calculations are based upon preliminary EF&I "driver" costs provided to Supply Chain Management by three Turf Vendors and a theoretical average of 8 - 100 sq. ft. arrangements within this 800 sq. ft. area. From these calculations the average EF&I cost/arrangement is determined. From the avg.EF&I cost/arrangement a cost study can determine a recurring rate to apply to every arrangement. All TelCo loadings must be applied to the EF&I cost.

The recurring charge for cross-connects should not be impacted by the standard rate space preparation charge. Cross connects will continue to require utilization of via or main aisle cable support to deliver the service from the collocated equipment to the demarcation point.

It must be emphasised that the above "driver" rates are very preliminary. These drivers are being established to address equipment space preparation. Such drivers do not currently exist, as space preparation for BellSouth equipment space has been recovered by Turf vendors through the MBOS model prices.





	Region	
Total Power Plant Construction (\$\$\$)	Total CLEC Dedicated Cable (\$\$\$)	Total CLEC Requested DC Amps
\$ 16,154,045	\$ 506,867 Construction \$\$	\$ 37,656
	Cable Only	Total
\$ 77 429.00		
 ÷ 1.5		

ŧ.

Used = Rated Amps P= I x E WATTS = Amps x Volts

Recommended AC power pricing formulas for the recovery of commercial AC power expenses and standby power assets.

These formulas may be used to develop recurring charges when BST supplies AC equipment power to collocated equipment.

The following formulas can be used to compute the monthly cost of providing commercial and standby AC power to a collocated power plant. The costs are based on the electrical service (voltage and phases) and the rating (in Amps) of the electrical protection device used to provide AC power to the collocated power plant.

#### Commercial AC Formula (\$/month/breaker amp) for 120V, single phase (120/240) 0.07 \$/kwh X 8760 h/yr X 0.0833333 yr/mo X 0.001 KW/W X 0.8 W/VA X 120 V/Phase X 1 Phases X 1 Amps X 0.8 (NEC Rule) = 3.92 \$/month for 240V, single phase (120/240) 0.07 \$/kwh X 8760 h/yr X 0.0833333 yr/mo X 0.001 KW/W X 0.8 W/VA X 240 V/Phase X 1 Phases X 1 Amps X 0.8 (NEC Rule) = 7.85 \$/month for 120V, three phase (208Y/120) 0.07 \$/kwh X 8760 h/yr X 0.0833333 yr/mo X 0.001 KW/W X 0.8 W/VA X 120 V/Phase X 3 Phases X 1 Amps X 0.8 (NEC Rule) = 11.77 \$/month for 277V, three phase (480Y/277 or 480 Delta) 0.07 \$/kwh X 8760 h/yr X 0.0833333 yr/mo X 0.001 KW/W X 0.8 W/VA X 277 V/Phase X 3 Phases X 1 Amps X 0.8 (NEC Rule) = 27.18 \$/month Engine Alternator Investment required to provide standy power per AC breaker amp for 120V, single phase (120/240) 800 \$/KW X 0.001 KW/W X 0.8 W/VA X 120 V/Phase X 1 Phases X 0.8 (NEC Rule) = \$61.44 for 240V, single phase (120/240) 800 \$/KW X 0.001 KW/W X 0.8 W/VA X 240 V/Phase X 1 Phases X 0.8 (NEC Rule) = \$122.88 for 120V, three phase (208Y/120) 800 \$/KW X 0.001 KW/W X 0.8 W/VA X 120 V/Phase X 3 Phases X 0.8 (NEC Rule) = \$184.32 for 277V, three phase (480Y/277 or 480 Delta) 800 \$/KW X 0.001 KW/W X 0.8 W/VA X 277 V/Phase X 3 Phases X 0.8 (NEC Rule) = \$425.47 The above formulas can be reduced to: for 120V, single phase - monthly recurring billing = (\$3.92 + monthly recurring charge to recover \$61.44 standby engine asset) X AC breaker amperage rating for 240V, single phase - monthly recurring billing = (\$7.85 + monthly recurring charge to recover \$122.88 standby engine asset) X AC breaker amperage rating for 120V, three phase - monthly recurring billing = (\$11,77 + monthly recurring charge to recover \$184.32 standby engine asset) X AC breaker amperage rating for 277V, three phase - monthly recurring billing = (\$27.18 + monthly recurring charge to recover \$425.47 standby engine asset) X AC breaker amperage rating 2/9/1999 Spreadsheet developed by Tom Weber, NP&PS, 205-321-8113. The commercial AC formulas were developed by John Clements, P&SM.) The standby engine investment formlas were developed by Steve Martin, NP&PS. (Note: the maximum utilization on a standby engine wiff be approximately 80%. The regional average utilization of these assets is estimated at approximately 65%)



## H.1.37

Average Card Reader Installation	Costs:	
Average card reader installation includes 2		
	7	
ITEM	COST	-
Unit		
Modem & encryption software		
Avg. electrical job		
POTS line		•
Total		•
Parsons markup @1%		•
Parsons distributables/loadings @ 13.5%		-
*Host cost		_
Grand Total		-
Notes:		
* Host costs include hardware, software a	nd communications costs.	
Host can support 2,000 - 3000 units.		
Host costs spread over 2000 units		
No taxes included.		

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Woodson E. Elscon /m6,mail6a 9/10/59 12:25

Page 1

MESSAGE

Subject: Cost Accounting Information for Collocation Sender: Rusty M. Foster /mJ.mailla

Dated: 9/30/99 at 10:56 Contents: 1

Itam 1

TO: Woodson E. Blaton /m6, mail6a

CC: Lynetts Saldwin /m6.mail6e; PHONE-205-321-4456 Jerry E. Higgins /m7, mail74, PHOME-308-321-2473 Rarem C. Hill /m2, mail2a; PHOME-415-446-7449 Beth Shiroishi /m4, mail4a; PHOME-404-927-1178

Item 2

Yoody,

Listed below is the information you requested:

Card Access Software	4600	613	\$206W Wew Syst. \$125K/Yr. Sate.
Card Access Mardware	field Reporting Code	<u>RIC</u>	COST
	330C(inside data cutz)	633	7
	630C (outside data cutz)	523	8 49E/ Yew Syst.

dubmitted,

Rusty Foster 205-321-4793

Application SU consist facility

Multiple Site Ficeillag Code Sufrance Card Access Softung 06K Work stations (15) (addle applitu) cracle dB RTU fee Server lift Redurant Buckwood Compatibility 375 exist

CAC 460CK

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Mati	Source	Coet	
Virtual Collocation - 2 Fiber (Singlemode) Cro	oss Connects		
LGX Bay			
Bay Frwk	Network Planning & Support		•
Retainers JR4C9	Network Planning & Support		
Lightguide Kit (2)	Network Planning & Support		
Total Material Price	Network Planning & Support	<del></del>	
Circuit Capacity	Network Planning & Support		
Projected Actual Utilization	Network Planning & Support		
LGX Shelf			
Shelf	Network Planning & Support		
Coupler Panel (12)	Network Planning & Support		
SC Coupling (72)	Network Planning & Support		
Total Material Price	Network Planning & Support	-	
Circuit Capacity	Network Planning & Support		
Projected Actual Utilization	Network Planning & Support		
Fiber Duct (fiber jumper support)			Note 1
Material Price per foot	Network Planning & Support		
Number Feat	Network Planning & Support		
Circuit Capacity	Network Planning & Support		
Projected Actual Utilization	Network Planning & Support		
Note 1: Virtual collocation equip, is typically			
placed in BST lineups and will use BST fiber duc	2		
Fiber Duct Components/60ft run			
10 - 4x4 Straight Duct 6"			
2 - 4x4 Elbow			
10 - 4x4 Splice			
5 - Support Details	*		
5 - threaded rod			
Total per 60ft =			
Matl Cost per Foot =			
Fiber Patchcord Capacity from ADC catalog = 80	0		
Assumes 3mm patchcords, 2/ckt			

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#### What costs are recovered in space construction?

Marie 1

The following unit cost specifications were compiled based on engineering estimates and actual costs. The engineer's estimates were extrapolated from actual projects to come up with a cost per square foot. The actual costs were taken from past projects and project costs to determine a new project baseline cost.

Space construction investment for the first 100 square foot enclosure includes (a) the material and labor cost of constructing a 100 square foot welded wire mesh enclosure, (b) architectural and engineering fees for project management, design and construction oversight, and (c) electrical and grounding work.

The standard is a 100 square foot enclosure and is assumed to be a 10' by 10' space with enclosure required on 3 sides for a total of 30 linear feet. Enclosure sizes are available at 100 s.f. minimum and then 50 s.f. increments.

These prices are based on constructing the entire collocation suite and all enclosures at the same time (at least 80% of the time). This method allows for cost savings due to bulk purchases, reduced contractor setup fee and reduced architectural/engineering fees. The enclosure construction can not be done at this rate if the enclosures are constructed as each firm orders is received.

These costs are considered to be the most likely costs. The actual cost will vary according to existing building conditions, location of building, and local material and labor rates.

The material and labor costs for constructing the 100 square foot enclosure are as follows:

Welded Wire Mesh Enclosure (3 sides considered)

Swinging Door (3' x 8') and lockset

**Dust Protection** 

Electrical Work

Electrical Grounding

Signage

General Conditions

Contractor's Fee

Architectural/Engineering fee

Project Management fee

#### Total

Incremental cost for additional 50 s.f. (See calculation below)

Space construction investment for an additional 50 square feet includes the material and labor cost of increasing the enclosure by additional 50 foot increments when constructed

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at the same time as the first 100 square foot enclosure. Costs may include additional wire cage, doors, electrical and grounding work.

The incremental amount per 50 square feet (over the first 100 square feet) is weighted with the following probabilities to determine the cost per additional 50 square feet:

Square feet	Probability	Computation	Cost
150	5%		
200	55%		
250	0%		
300	9%		
350	0%		
400	31%		
	100%		

These probabilities are based on the actual requests for physical collocation enclosure construction received by BellSouth in 1997 and 1998 excluding the unusual requests for 700 s.f., 4000 s.f. and 5000 s.f..

Total

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#### BELLSOUTH COLLOCATION COST STUDY

PROJECT: IVPICAL COLLOCATOR COSTS - WIRE MESH PARTITION SYSTEM

LOCATION: Varies ROOM AREA: 100 SF

CLIENT: BellSouth Telecommunications, IncPROJECT NO: DATE: 3/22/2000

#### SUMMARY

DESCRIPTION	PERCENT SUBTOTAL COST PER OF JOB COST SQ. FT.
1 CHESTAL CONDITIONS	_

1. GENERAL CONDITIONS

10. SPECIALTIES

16. ELECTRICAL

SUBTOTAL

CONTRACTOR'S MARKUP (12%)

TOTAL ESTIMATED CONSTRUCTION COST

ESTIMATED ARCHITECTURAL/ENGINEERING FEE(16%) PROJECT MANAGEMENT FEE (8%)

TOTAL DESIGN/CONSTRUCTION COST

#### BREAKDOWN BY DIVISION

DESCRIPTION	QUAN-	UNIT UNIT SUBTOTAL TOTAL COST MEAS: COST. COST
1. GENERAL CONDITIONS	1.3555.00	
Superintendent	1	LS
General clean up	1	LS
Permit (Moved to Space Preparation)	1	LS
Contingency (5%)	1	LS
10. SPECIALTIES		
Wire Mesh partition enclosure		
Swinging door and lockset	1	Ea
Wall panels	1	Ea
Signage	1	Ea
Miscellaneous Protection	1	Job
Prep)	0	LF
16. ELECTRICAL		
Relocation or addition of light fixture(s)	1	Job
Complete grounding of wire mesh partition system, including all necessary conductors,		
lugs, taps, etc.	1	Job .

Note:

Costs shown above are directly attributable to the cost of preparing the Collocator's enclosure only. The space enclosure charge per the tarrif. Space Preparation costs are not inclu-

Assumptions: Entire collocation suite and all enclosures are constructed at the same time (at least 80% of t All mechanical and electrical modifications will be included in the space preparation fees.

It is not possible to construct the enclosures for this cost if they are constructed at different times a for a central office is received. The cost savings are due to reduced set-up, architectural, engineering management fees, supervision, as well as bulk purchases.



			1							
		25		50		100		150		200
	Oty	Unit Cost Total	Oty L	Init Cost Total	Oty (	Jnit Cost Total		nit Cost Total	Qty	Unit Cost Total
Wire mesh panels (56.15/Linear Foot)	5	\$	10	\$	30	\$	35	\$	40	\$
Relocate Wire Panels	1	\$	1	\$			1	\$	1	s
Swing Door & Lockset	1	\$	1	\$	1	\$	1	\$	1	\$
Additional Protection	1	\$	1	s	1	s	1	\$	1	s
Electrical	1	\$	1	\$	1	\$	1	s	1	\$
Grounding	1	\$	1	\$	1	\$	1	s	1	s
Signage	1	s	1	\$	1	\$	1	\$	1	\$
General Cleanup Superintendent (5%) Contingency(5%) Contractor Fee (12%)	1 1 1	\$ \$ \$	1 1 1	\$ \$ \$	1 1 1	\$ \$ \$	† 1	\$ \$ \$	1 1 1	\$ \$ \$
A/E Fees(16%) Project Mgmt(5%) Total	1 1	\$ \$ \$	1 1	\$ \$ \$	1 1	\$ \$ \$	1 1 1	\$ \$ \$	1 1 1	\$ \$ \$ \$
Construction w/o gen.cond. Total Construction w/o fee Total Construction w/fee		\$ \$ \$		\$ \$ \$		\$ \$ \$		\$ \$ \$		\$ \$ \$
Incremental cost per 50sf from std. Cost (100sf)				\$		\$		<b>s</b>		\$
Percentage Cost										

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				[					1	
					200			250		
-	Qty	250 Unit Cost	Total	Qty	300 Unit Cost	Total	Oty	350 Unit Cost T	Total City	400 Unit Cost Total
Wire mesh panels (56.15/Linear Foot)	45		<u> </u>	50		\$	55	- \$	60	\$
Relocate Wire Panels	1		\$	1		\$	1	\$	1	s
Swing Door & Lockset	1		\$	1		s	1	\$	1	\$
Additional Protection	1		\$	1		\$	1	\$	1	\$
Electrical	1		\$	1		\$	1	\$	1	\$
Grounding	1		\$	1		\$	1	\$	1	s
Signage	1		\$	1		\$	1	\$	1	\$
General Cleanup SuperIntendent (5%) Contingency(5%) Contractor Fee (12%)	1 1 1		\$ \$ \$ \$	1 1 1		\$ \$ \$ \$	1 1 1	\$ \$ \$ \$	1 1 1	\$ \$ \$ \$
A/E Fees(16%) Project Mgmt(5%) Total	1		\$ \$ \$ ·	1		\$ \$	1	\$ \$ \$	. 1	\$ \$ \$ .
Construction w/o gen.cond. Total Construction w/o fee Total Construction w/lee			\$ \$ \$			\$ \$ \$		\$ \$ \$		\$ \$ \$
Incremental cost per 50sf from std. Cost (100sf)			\$			\$		s	Total Avg.Increr	\$ mental cost \$
Percentage Cost			0%	-					Total Weighter	1 Average \$

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31	Rote 7: 6' cable rack -	rgt f & 5"			_l	<del> </del>			+	1	·	<del> </del>	<del> </del>	+
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Month	Active Cards	
1	70,000	
2	70,953	1,304 new card activation
3	71,906	351 card deactivation
4	72,859	953 net gain per month
5	73,812	
6	74,765	
7	75,718	
8	76,671	
9	77,624	
10	78,577	
11	79,530	
12	80,483	
13	81,436	
14	82,389	
15	83,342	
16	84,295	
17	85,248	
18	86,201	86,678 Midpoint Active Cards
19	87,154	128,000 Apogee System Capacity
20	88,107	
21	89,060	86,678 <b>●</b> 128,000 = 67.72 <b>%</b>
22	90,013	
23	90,966	67.72% Projected Actual Utilization
24	91,919	
25	92,872	
26	93,825	
27	94,778	
28	95,731	
29	96,684	•
30	97,637	
31	98,590	
32	99,543	
33	100,496	
34	101,449	
35	102,402	
36	103,355	



STF 3-22 Please describe how the fill factors provided in response to STF 1-13 were calculated, and the information sources used to derive those factors.

Cable Support Structure cable rack - 50% - waiting on Bill McAllister

#### Cross Connects

The following equipment is part of the "normal" network equipment for the central office and is not specific to collocation or to a collocator, these pieces of equipment carry the general central office fill factor provided by Network Planning:

2-Wire Cross Connect	TDF Connecting Block	72.5% (now 85%) 72.5% (now 85%)
	Cable Rack	67% (see note 1)
4-Wire Cross Connect	TDF	72.5% (now 85%)
4-1120 0.010 00.010	Connecting Block	72.5% (now 85%)
	Cable Rack	67% (see note 1)
DS1 Cross Connect	DSX-1 Panel	70% (now 85%)
	Cable Rack	67% (see note 1)
DS3 Cross Connect	DSX-3 Panel	67% (now 85%)
DOS CICAL SCIANCE	Cable Rack	67% (see note 1)

The following equipment is specific to a collocator and the utilizations are developed by determining the equipment required by the "typical" arrangement built and the "typical" 3-year average of circuits expected to be turned up.

2-Wire Cross Connect	Cable	85%
4-Wire Cross Connect	Cable	85%
DS1 Cross Connect	Cable Repeater Repeater Bay Repeater Shelf	90% 100% 30% 80%
DS3 Cross Connect	Cable Repeater Repeater Bay Repeater Shelf	100% 100% 35% 85%
2-Wire POT Bay	POT Bay	40%

	Termination Block	85%
4-Wire POT Bay	POT Bay	40%
	Termination Block	85%
DS1 POT Bay	Connecting Block	98.7%
	Shelf	80%
	POT Bay	33% (see note 2)
DS3 POT Bay	Module	100%
·	Shelf	18%
	POT Bay	33% (see note 2)

Note 1: The utilization of cables in the cable rack is 67%. To get the utilization on a per circuit basis, this 67% is multiplied by the utilization of circuits in the cable itself. This yields the following utilizations that are now in the study:

2-Wire Cross Connect - 85% • 67% = 56.95% 4-Wire Cross Connect - 85% • 67% = 56.95 % DS1 Cross Connect - 90% • 67% = 60.3% DS3 Cross Connect - 100% • 67% = 100% • 17%

Note 2: The DS1 and DS3 circuits terminate on the same POT Bay. There are 12 shelves in the POT Bay. The average customer configuration assumes that there will be 3 shelves used for DS1 circuits and 1 for DS3 circuits. This total of 4 shelves used yields the 33% utilization listed in STF 1-13. To get this utilization on a per circuit basis, the 33% utilization is multiplied by the circuit utilization of the shelf. This yields the following utilizations that are now in the study:

DS1 POT Bay - 80% * 33% = 26.4% DS3 POT Bay - 18% * 33% = 5.94%



	Α	8	С	O   E	L	F	G	Н		1	J		К
1	Yr	ST	GLC	Location		Est.S	П	Proposed	W	eighted			
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2			ļ			34.12	H	weighting		r Sq.Ft.			
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4	.		l <u></u> .	ALABAMA	1_		ŀ	ļ <u></u>		_	•		
5	00			Hanceville - CO Addition	\$	4.00	ŀ	5 00%	_	0.20			
6	00		11813	Huntsville University CO Addition	\$	12.00		11.00%		1.32			
7	.	AL		Pansh CO - Addition	2	4.00	ŀ	5.00%		0.20			
8		AL		Carbon Hill	\$	5.00	L	5.00%		0.25			
9		AL		West Blocton - Addition	\$	6.00	LI	5.00%		0.30	Ĺ		
10	_ [	ÄL		Riverchase CO - Finish 2nd Story	\$	15.00	Ш	16.00%		2.40			
111	•	AL		Sylacauge Main - Growth	[\$	7.00	L	5.00%		0.35			
12		AL		Huntsville Main - Rear Addition	13	15.00		11.00%		1.65		•	•
13	-	AL	,	Alabaster CO - 2nd Floor Addition	\$	10.00		10.00%		1.00			
14	- 1	AL	i <b>-</b>	Rogersville Main - Front Addition	\$	4.00		5.00%		0.20			
15	- 1	AL		Lafayette Main - Addition	\$	5.00	П	5.00%	\$	0.25			
16		AL	-	Oak Mountain CO - Rear Addition	\$	10.00	[	12.00%	\$	1.20			
17	-	AL		Belle Fountaine CO - Addition	\$	7.00		5.00%	\$	0.35	-	•	
18	- · }				<b>F</b> -		П	100.00%	8	9.67			
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19	<u>.</u> L	. <u>.</u> l		FLORIDA	L		Ц		_				
20	_ [	FL	[	Boca Raton	\$	15.00	Ц	12.00%		1.80			
21	_ [	FL		Daytona Beach	\$	8.00	Ц	6.00%	ı	0.48			
22	[	FL	I	Holley-Neverre	\$	2.00	L	1.00%	J	0.02			· <del>-</del>
23	_]	FL.		Jacksonville	\$	10.00	Ц	5.00%		0.50			
24	T	FL		Lake Mary	\$	10.00	Ц	4.00%	_	0.40			
25		FL		Miami	\$	12.00		14.00%	_	1.68			
26		FL		North Dede	\$	12.00		20.00%		2.40			
27		FL		West Palm Beach	\$	10.00		18.00%	\$	1.80			
28													
29		1		Planned Additions									
30	_	FL		Cross-City - Reer Addition	8	2.00		1.00%	\$	0.02			
31		FL		JCVL Oceanway - Rear Addition	\$	4.00	П	1.00%	\$	0.04			
32		FL		Jacksonville Beachwood - Addition	8	4.00	П	2.00%	\$	0.06			
33		FL		PNSC Ferry Pass Growth - Vert. Addn.	8	5.00	П	2.00%	\$	0.10			
34		FL		Orlando Azales Park - Addition	8	10.00		2.00%	\$	0.20			
35	}	FL		Orlando Sandlake - Addition	\$	10.00		3.00%		0.30			
36		FL		Weston CO - Addition	\$	20.00		1.00%		0.20			
37		FL		FTLD Sewgrass - Rear Addition	\$	20.00		1.00%		0.20			
38		FL		Corel Springs - Rear Addition	\$	15.00		3.00%		0.45			
39		FL		FTLD Annex - Vertical Addition	\$	7.00		1.00%		0.07			
40		FL		West Dade - Rear Toll Addition	\$	10.00		2.00%		0.20	L		
41	t	FL		Sandelfoot CO - Addition	3	15.00		1.00%		0.15	L		
42								100.00%	\$	11.00			
43				Kentucky ;									
2		KY		LSVC - Westport Rd - Bldg Addition	15	2.10	Н	13.00%	1	0.27			
45	∤	K		Pilotview - Bidg Addition :	13	0.65	Н	7.60%		0.05	- · <del>-</del>		
46		3		Warfield - Bidg Addition	3	0.65	Н	7.50%		0.05	<del></del>		
47		KY		Lebenon Jotn - Bidg Addition	1	0.65	Н	7.60%		0.05			
48	}	X		Bardstown CQ - Bidg Addition	\$	1.60	Н	16.00%		0.26	<b></b>		
		KY		Taylorsville - Bidg Addition	<del>   </del> -	0.65	Н	7.60%		0.05	<del>                                     </del>		
49						1.85	Н	10.00%		0.19	<del> </del>		
50		ΚΥ		Georgetown - Frame Bidg Addition	\$		Н	7.60%		0.05	<del> </del>		
51		ΚΥ		McCerr - Bldg Addition	\$	0.65	L	7.60%		0.05	<del> </del>		•
52		ΚY		Clinton - Bldg Addition	\$	0.65	L						
53		KY		Perryville Buckner - Bidg Addition	\$	0.65		7.60%		0.05			
54		KY		Wayland - Bidg Addition	\$	0.65		7.70%		0.05			
55					Γ			99.90%	18	1.11	V		
56											<u> </u>		

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-	DATA SOURCE EOY 1990	M'VBVMV	FLORIDA	GEORGIA	KENTUCKY	FORISMA	MISSISSIPPI	NORTH CAROLINA	SOUTH CAROLINA	TENNESSEE	BELLSCAI
1 ACCOUNT 2121 - BUILDING - 1966 EC	css	341,280,878	728,338,737	515,000,201	166,430,961	246,254,924	151,722,827	223,057,232	120,511,653	245,989 /69	2,738,647,1
2 A/C2121, CP 2-BUILDINGS - CEN OFC		152,636,033	418,937,384	204,921,110	<u>94,048,59</u> 0	198,192,321	76,413,906	1 <u>57,437,<b>89</b>1</u>	<b>0</b> 2,075,114	149,040,786	1,521,601,2
) - CEN OFC % OF TOTAL BUILDINGS	LH 2AN1	44 70%	57 12%	39.78%	. <b>6</b> € 21.×	76 42%	50 <u>36%</u>	70 <u>58%</u>	60 02%	60 59%	55 5
4 AC2121, CP & BUILDINGS ASSOC W	css	29,348,445	64.572,960	28,801,928	1,300,636	524,187	27,472,510	5,116,442	731,611	29,563,650	167,432,3
5 - GPC % OF TOTAL BUILDINGS	IN MAN	8 60%	8 87%	5 59%	0 78%	021%	18 11%	2 29%	<b>о в</b> 1ж	12 02%	64
6 ACCOUNT 2111 - LAND - 1998 EQY	1999-2001 AVG	21,375	80,596	50,704	21,564	,31. <u>251</u>	10.851	34,196	14,621	21,227	206,3
7 ACCOUNT 2121 - BUILDING	1999-2001 AVG	719,650	1,312,636	1,012,371	340,782	<u>638,92</u> 4	3,42,877	<u>512,349</u>	291,536	527,952	5,590,0
B TOTAL LAND & BLDG	™ë+™s	741,034	1,393,231	1,063,975	362,316	<u>670,177</u>	353,728	549,544	308,157	549,179	5,885,4
B ACCT 2124 - GEN PUR COMP	1999-2001 AVG	233,577	167.918	238,391	18,685	<u>30,682</u>	79,397	142,637	23,531	93,776	1,028,0
IO ACCOUNT 2200 - COE	1999-2001 AVG	2,266,020	6,356,706	3,482,883	1,311,424	2,442,871	1,4 <u>14,18</u> 4	2,677,279	1,578,946	2,072,223	24,403,6
11 AC2121, BUILDINGS ASSOC W/COL	เพราะพร	351'61.5	749,796	402,765	† <u>9</u> 2,567	411,856	172,007	361,626	200,729	319,877	3,1303
12 A/C2121, BUILDINGS ASSOC W/GPC	เพราเหว	ē1, <u>ē</u> 9:	110,375	56,600	2,063	<u>1,14?</u>	62,086	11,752	1,770	63,451	3// 7
CALCULATION OF FORWARD LOOKING	LAB FACTORS.			•							
13 CENTRAL OFFICE - LAND	(เพิ่ร)ไหน่าวังรัพเจ	0 0042120	0.0072440	9 0057920	0.0092870	0 009,7770	ō 0030640	ō ō0 <del>0</del> 0 i 50	0 0083780	0 0044780	0 00654
14 CENTRAL OFFICE - BUILDING	rw i 1 \ r v i i ō	0 1418290	0 1179720	0 1156410	0 1468250	0 1665 <b>9</b> 50	0 1221110	0 1360720	0 127 1240	0 1113600	0 12840
15 GEN PUR COMPUTER - LAND	(FW2).(FW2)rH0	0 0078700	0 0425530	0 011 <b>893</b> 0	0 0088300	0 0021680	6 0247470	0 0055030	0 0037720	0 0272050	0 0 1905
16 GEN PUR COMPUTER - BUILDING	LN 12/LN 9	0 2649700	0 6930470	0 2374640	0 1410130	0 0373890	0 7819540	0 0824500	0 0752160	0 6/66/00	0.36720

Line 6 : Line 8 = % Land

Line 7 : Line 8 = % Building

In 1997

H SPARE A

BellSouth Telecommunications, Inc.
FPSC Dkt No. 960786-TL
Staff's 3rd Request for
Production of Documents
August 30, 2001
Item No. 43
Attachment 3
Page 1 of 9

# ATTACHMENT THREE (8 Pages) PROPRIETARY



### BELLSOUTH TELECOMMUNICATIONS, INC.

FPSC DKT NO. 001797-TP

COVAD'S FIRST REQUEST FOR PRODUCTION OF DOCUMENTS

POD NO. ______

**PROPRIETARY** 

Requests for Production Item No. 32
Attachment No. 1
Line Sharing – Supporting Documents

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Bell South Central Office Driver Pricing	ENGIN	EERING	INSTALL	ATION	
	FIRST	EA. 400.	PRET	EA ADO	MATI
1 Assemble and Mount Bay of Cabinet					EAC
2 install Shoff or Unit in Boy					
3 Misc. Fuse terminetien - max length 30"			1		
Office and Local Alerma					
- Remain Alerma - X.26, TBCS, Biberola and Broadband					
6 Alarm Acceptance and Toping					
7' Miscallaneous Leags (Run/Connect) - mas length 128 ft.	_				
S Multiple Miscellaneous Leasts (Run/Connett)					
9 Fiber Jumpers (Include Connectors One Felt (XMARCV) Felt) - mas length 125 R.	_				
10 Piper Gross-Connect Jumpers ((Xmt/Rcv) Peir) - mas length 36 R.	_				
11 Piber Oust added to exluting tirre-up	_				
12 DS3/STS-1 (News Stement to DSX-3) 1 citis - max length 156%.					
13 DESISTS-1 (Mind Stement to DEX-2) 8 etts mex length 186 ft.					
14 083/8TS-1 (Nivik Element to 06X-1) 12 cits max length 186 ft.					
15 PUTURE - DESISTE-1 (Arror: Soment to DEX-1) SE exts.					
15 DB1/VT1.6 (Mine Stement to DSX-1 Non-Connectorized) 29 stits - max length 186 R.					
17 Connectorized D&1A71.8 (ntert Moment to DBX-1) 28 obts - mex longer 186 R.					
18 Cannostoricad DS1A71.6 (News Moment to DS2-1) (Non-Amph, Non-716 Conn.) 28 cats - max length 149	_				
19 080 (New Bemark to DF 26 Pelr Connector(sed) - max length 286 ft.					
20 DBQ (News Blement to DF 100 Petr ConnectorIzed) - max longer 300 R.					
21 Plugs and Circuit Facts - Handle, Warehouse, Deliver, verify					
22 Modules / Birapa / Herdogre Werehause, deliver, nendle, verify					
23 Power For Load (BOFS) 1 - 16 empg - mas length 100 R.					
24 Power Par Load (8079) 16 - 36 emps - max langth 166 R.					
25 Power For Leas (80FB) 21 - 16 amps - max langth 100 ft.					
26 Power Per Least - Inner bay power - max langth 136 R.					
27 Power For Load (Connectorized Former Cable Assemblies) - max longth 10 ft.					
Timing Cobis Per Petr - max length 200 R.					
Multiple Cable Within Same Say					
3Q Puse Panel (Mat'l anay)					
31 Furnish Say (All Types Mari sany)					
32 Cabinets (MgC) anity)					
33 Ferminal Strips and Wining Blacks					
34 Selemic Bay (Mer'l entry )					
35 100 Feet stub					
36 200 Foot dub					
37 100 Post stub		<b>85</b> 333			
38 600 Foot stub		**			•
39 Selemic and guard					
40 Selemic Bay estander					
41 Engineering code - to cover eachtered coulded Engs. code					
42 installation coats - to cover additional inst. coats					
43 Open and close cable helb					
44 200 and 400 type blocks - (366, 316, 460) material difference from 60 type					
45 Excessive cable lengths - 000, 001 and 000 - max length in 200 ft. Increments					
46.CEM provided cable accombly cost for intro boy cabling - installation costs only					
47'CEM provided cable examply rost for inter boy cabling - installation costs only					
48 DSO (News Stement to DF 36 Pair Hon-Connectorises both ends) - max length 300 ft.					
49 DSD (News Stement to DF 100 Petr Non-Connectorized both ende) - max length 300 ft.					

From Down Woodrone. Supply Chain Mont All prices shown are current.

PROPRIETARY

Not for Disclare the Control outh Except by Writish Agreement

1. 130

1 1	Assemble and Mount Bay/Cabinet	FIRST	EA ADD.	Intel	PIRST	EA ADD.	Total	EACH	Total
1 1	Areanthle and News Radiostate						- 1	•	
		1					]		
14 2	Install Shell/Unitiate. In Existing Bay	l l							
42 20	DSO (Ntwk Element to DF 100 Pair Connectorized) 150'								
336 21	Plugs/Cit Packs - Hendle, Warehouse, Deliver	1							
1 31	Furnish Bay (All Types)(Malt only)	Ī							
42 33	Terminal Strips/Wring Blocks	j							
14 42	1 hour of inetalistion; 3 - 86 type blocks per/hour	-							

TOTALS

ENG:

MST:

MAT:

Grand Total =

\$30,929

Estimated cost of extra cabling if cosmic frame is involved; max distance 158*

DSO wire-wrap both ends; 100 per

This excel spreadsheet provides Engineering, Installation, and minor material charges for the Siecor 96-line ADSL POTS splitter. It also covers the material cost of one 7' standard, non-esismic network buy.

It covers 89 type blocks, physical installation, engineering, and DS0 cabling between the 89 type blocks and the frame for one 7' fully equipped bey of the equipment. The device is passive, and derives powering from the DSLAM equipment, so no power cabling is included. Siecor recommended capacity for one bay is 14 shelves. The equipment is not shepwired, so the installation portion also covers assembly of the shelves into the bay and placement of the 24 plug-in circuit boards in each shelf. These costs only reflect cabling for an MDF environment. If the office has a cosmic frame, additional DS0/6e (wire-wrap both ends) cabling for 2688 pairs (14 shelves X 96 lines X 2) would be required. See additional estimated charge at the bottom of the spreadsheet.

The assumption is made that the max distance on the DSO cabling is 150°, and that the backplane allows for cabling with a 100' cable to each 89 type block for each set of 32 lines.

I would advise referencing the total E, total I, and total M costs - and overall project cost; but not the activity level pricing.



Page 1

Dated: 7/11/00 at 15:36 Subject: DSL line card w/test points - transition info Size: 3353 bytes Creator: RobiEhrhardt /Internet (Rob_Shrhardt@corning.com)

Gentlemen, in response to your inquiry I am providing information regarding our DEL line aplitter card with the test point access feature. Pla see the attached e-mail from paul Davis, our Market Specialist for BellSouth.

As a point of clarification, allow me to point out that the rate which raul references (10,000 line cards/month) is sufficient to support your current monthly allocation of 400 CO Splitter shelves: 400 shelves x 24 cards/shelf = 9600 cards + 200 extra cards/month = 9800 cards (NOTE: it is more then sufficient to support the orders that we currently have on the books for July and August). Feel free to call if you have any questions (904/424-1330).

Also, I have forwarded samples of the proposed line card to you at the BTAC for your evaluation (as noted in a VMX to Cary Tennyson yesterday, July 10).

Finally, should you decide to begin using the line card with the test point access feature pls confirm whether you intend to continue the purchase of our Bantam Jack Test Shelf (i.e. will the line card raplace the Test Shelf or will the line cards feature be an additional test capability).

Ple let us know your decision seap. As a courtesy to CCS, we request 4 was notice for implementing this change so that we may minimize the impact on our component suppliers, and therefore, on our ability to continue shipping these products to BellSouth in a timely manner.

r/Rob

09:31 AH -----

Paul Davis 07/10/2000 05:30 PM

Rob Ehrhardt/SP/Siecor@CorningCS Jim Cummine/87/SiecoreCorningCS

Subject: DSL line card w/test points - transition info (Document link not converted)

Rob.

Bellsouth currently purchases standard line cards in conjunction with xDSL 96-line CO Splitter Shelves. Corning Cable Systems (CCS) offers an alternate line card for use in these splitter shelves which would provide BST with additional test access/capability. CCS can transition BST to these cards beginning with shipments in August, 2000 at a rate of 10.000/month.

In summary, the effected part numbers and prices are:

CURRENT PRICE VPE Description NEW PRICE (w/new line card) 96-line co splitter shelf (current) COS79683R008 E/A M/A 96-1186 CO Splitter Shelf (w/test access) COSF96818R008 W/A M/A

COSPOSSOCO H72812 4-line Card (current)

M/A N/A 4-line Card (w/test access pt's) COSPOCELEGAGO tbd

200132

COSPODSERESS Empty CO Splitter Shelf (current)

PROPRIETARY

Not for Disclaim . It is RellSouth Except by Written Agreement

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Bantum Jack Test Shelf (current) COSJBT096 201181

24-line RT Splitter shelf (rear access) COSE2488C014 thd
(1)
24-line RT Splitter shelf (front access) COSE2488C015 thd

(1) CCS does not currently offer a line card with test point access for the RT Splitter shelf. However, this product is under development.

Please let me know if you have additional questions.

Thanks.

Faul Davis Market Specialist - Public Networks Corning Cable Systems

PROPPIFTARY
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Except by Written Agreement.

