ATTACHMENT
(One Page)
PROPRIETARY

REDACTED

COLLOCATION KEY & CARD COST DRAFT

Item		
I. Material costs - Key:		
Material Cost		
Postage 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		
Total		
III. Access Device - Card and key issued per person		
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 costs:		
Annual contract Labor cost (3.5 people) (year 2000)		
1-Siemens and 2.5 Strategic employees (includes some overtime)		
Annual contract Labor cost (5.0 people) (year 2001)		
1-Siemens and 4 Strategic employees		
Annual Productive Contract Labor Hours per Person = 1960		
BST Headcount:		Headcount
JG58 (CURRENT)		0.5
JG56 (PROPOSED)		1.0

[redacted]

*on keys ordered exceed 22,500 annually, this mark-up applies.

ATTACHMENT TWO
(Three Pages)
PROPRIETARY

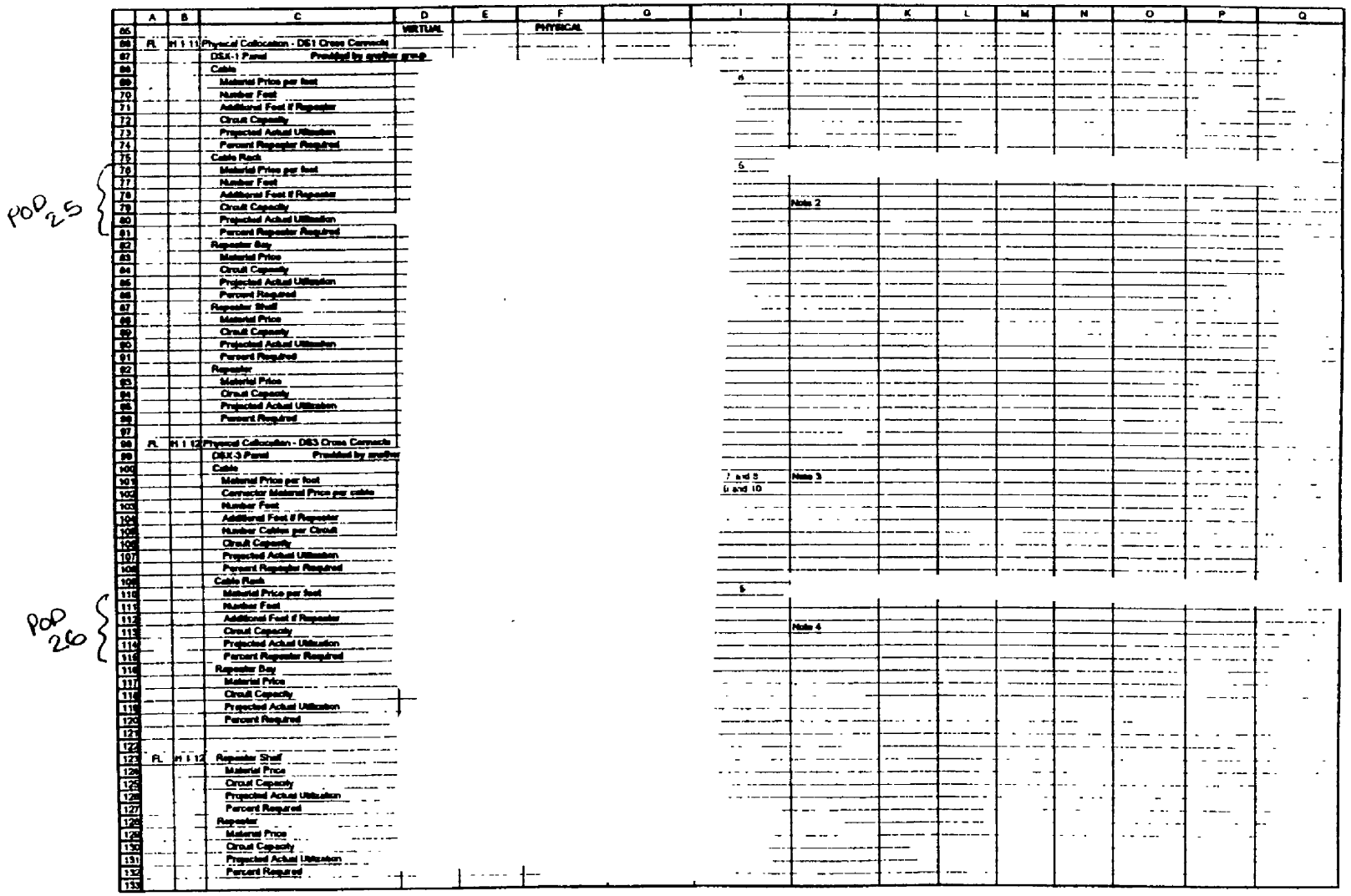
REDACTED

POD 21

POD 23

	A	B	C	D	E	F	G	I	J	K	L	M	N	O	P	Q
1			Updated 11/10/98 TEW @ 205-321-8113													
2																
3																
4	State	Cost	COLLOCATION	VIRTUAL		PHYSICAL										
5		#		Inputs	Other Inputs	Inputs	New Inputs	Attachment Ref. #	Supporting Info							
6																
7	FL	H 1 7	Physical Collocation - Cable Support Structure, Per Entrance Cable													
8			Investment per Foot						Note 7							
9			Cable Capacity													
10			Projected Actual Utilization													
11			Average Cable Length													
12																
13	FL	H 1 8	Physical Collocation - Power, Per Ampere													
14			Monthly Power Usage													
15			Average Monthly Cost per KWH													
16			Watts						The above formula has been modified to include a factor of 88888							
17			Rectifier Efficiency						This factor is required to calculate commercial power consumption based upon the rating of the DC protection device							
18																
19																
20																
21																
22	FL	H 1 9	Physical Collocation - 2-Wire Cross Conne													
23			Trunk Distributing Frame					2								
24			Material Price													
25			Circuit Capacity													
26			Projected Actual Utilization													
27			Number Required													
28			Connecting Block					3								
29			Material Price													
30			Circuit Capacity													
31			Projected Actual Utilization													
32			Number Required													
33			Cable					4								
34			Material Price per foot													
35			Number Feet													
36			Circuit Capacity													
37			Projected Actual Utilization													
38			Cable Rack					5								
39			Material Price per foot													
40			Number Feet						Note 1							
41			Circuit Capacity													
42			Projected Actual Utilization													
43																
44	FL	H 1 10	Physical Collocation - 4-Wire Cross Conr													
45			Trunk Distributing Frame					2	1							
46			Material Price													
47			Circuit Capacity													
48			Projected Actual Utilization													
49			Number Required													
50			Connecting Block					3								
51			Material Price													
52			Circuit Capacity													
53			Projected Actual Utilization													
54			Number Required													
55			Cable					4								
56			Material Price per foot													
57			Number Feet													
58			Circuit Capacity													
59			Projected Actual Utilization													
60			Cable Rack					5								
61			Material Price per foot													
62			Number Feet						Note 1							
63			Circuit Capacity													
64			Projected Actual Utilization													

POD Item No 21
Attachment No. 2
Page 1 of 3



	A	B	C
182			Note 1: Assume 26Ga 100 Pr [illegible] cable
183			OD=0.66"
184			2' 6" Cable rack with max. 10" piling
185			Capacity = 30/.66 x 10/0.66 = [illegible] x 16 = 672 cables
186			2wire Circuits = 672 x 100 = 67,200
187			4wire circuits = 672 x 100/2 = [illegible]
188			
189			Note 2. Assume 22Ga 816C 28 pair Cable OD = 0.84"
190			2' 6" Cable rack with max. 10" piling
191			Capacity = 30/.84 x 10/.84 = 47 x 16 = 752 cables
192			DS1 Circuits = 752 x 14 = 10,528
193			
194			Note 3 DS3 cable pricing. [illegible] standards use 736A up to 250' Beyond 250' use 734D Assume an even distribution of cable lengths from 100' to 465' 10% beyond 465' require repeaters 90% less than 465'
195			Cables between 100 and 250 = 150/356 =42 3% Cables between 250 and 465' = 206/356 = 57 7%
196			736A cable utilization = .423 x 90% = 38%
197			734D cable utilization = 100% - 38% = 62%
198			734D = $ [illegible] 736A = $ [illegible]
199			$/[illegible] [illegible] 62)+([illegible] 38)= $ [illegible]
200			
201			Note 4 from note 3, 38% of DS3 cable is 736A, 62% is 734D
202			736A OD = .122" , 734D OD = 0.236"
203			736A cross section = .122 x .122 = .0149 sq in
204			734D cross section = .236 x .236 = .0557 sq. in.
205			Cabl rack cross section = 30" x 10" = 300 sq in
206			Let X = total cables, 300 = (.62)(X)(.0557) + (.38)(X)(.0149)
207			.0[illegible]534X + .00[illegible]2X = 300
208			.0[illegible]1[illegible]X = 300
209			X = 7463
210			Capacity = 7463/2 = 3732
211			736A cables = .38 (7463) = 2836
212			734D cables = .62(7463) = 4627
213			
214			Note 5: DSO POT Consists of following
215			Qty - 1 universal 7' rack @ $230 46
216			Qty - 14 angle mtg bars @ $20 02 ea. = $280 28
217			Total POT Bay = $510 74
218			
219			Conn Blk Mod per 25 2-wire ckts
220			Qty - 1 [illegible] mtg bkts @ $ [illegible] ea.
221			Qty 1 [illegible]1 Conn blk @ $5 64 ea
222			Qty 50 C bridging clips @ $ [illegible] ea = $1 00
223			Total DSO Conn Blk cost = $[illegible] 41
224			Note 5 prices quoted from Allied Supply 1[illegible]
225			
226			Note 6 DS1 and DS3 POT Bay consists of
227			Qty 1ED-4C[illegible]1-[illegible] G1 7ft. Relay Bay Frame @ $467 80
228			Qty 1 ED-4C167-31 G6 Interconnect Hardware @ $742 38
229			Total Bay cost = $1,210 18
230			
231			Note 7 5" cable rack - length 8' 6 5"
232			Qty of 1 ED4C[illegible]-72 G1 @ $107 20 ea
233			Qty of 1 ED4C[illegible]-72 G10 @ $[illegible] 40 ea
234			Total = $10 [illegible]
235			

PUD Item No 21
Attachment No. 2
Page 3 of 3

ATTACHMENT THREE
(Five Pages)
PROPRIETARY

REDACTED

FPSC Dkt No. 960786-TL Staff's 3rd Request for Production of Documents 30-Aug-01	COLLOCATION	VIRTUAL Inputs	PHYSICAL Inputs	Supporting Info
	Physical Collocation - Cable Support Structure, Per Entrance Cable			
Item 21, Bates stamped page 1816, Line 18	Investment per Foot			
	Cable Capacity			Note 7
	Projected Actual Utilization			
	Average Cable Length			
	Physical Collocation - Power, Per Ampere			
	Monthly Power Usage			
	Average Monthly Cost per KWH			
	Watts			
	Rectifier Efficiency			The above formula has been modified to include a factor of 66666 This factor is required to calculate commercial power consumption based upon the rating of the DC protection device
	Physical Collocation - 2-Wire Cross Connects			
	Trunk Distributing Frame			
	Material Price			
	Circuit Capacity			
	Projected Actual Utilization			
	Number Required			
	Connecting Block			
	Material Price			
	Circuit Capacity			
	Projected Actual Utilization			
	Number Required			
	Cable			
Item 23, Bates stamped page 1816, Line 39	Material Price per foot			
	Number Feet			
Item 23, Bates stamped page 1816, Line 40	Circuit Capacity			
	Projected Actual Utilization			
	Cable Rack			
	Material Price per foot			
	Number Feet			
	Circuit Capacity			Note 1
	Projected Actual Utilization			
	Physical Collocation - 4-Wire Cross Connects			
	Trunk Distributing Frame			
	Material Price			
	Circuit Capacity			
	Projected Actual Utilization			
	Number Required			
	Connecting Block			
	Material Price			
	Circuit Capacity			
	Projected Actual Utilization			
	Number Required			
	Cable			
	Material Price per foot			
	Number Feet			
	Circuit Capacity			

FPSC Dkt No. 960786-TL Staff's 3rd Request for Production of Documents 30-Aug-01	COLLOCATION	VIRTUAL Inputs	PHYSICAL Inputs	Supporting Info
	Projected Actual Utilization			
	Cable Rack			
	Material Price per foot			
	Number Feet			
	Circuit Capacity			Note 1
	Projected Actual Utilization			
		VIRTUAL	PHYSICAL	
	Physical Collocation - DS1 Cross Connects			
	DSX-1 Panel Provided by another group			
	Cable			
	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			
Item 25, Bates stamped page 1816, Line 62	Circuit Capacity			Note 2
	Projected Actual Utilization			
	Percent Repeater Required			
	Repeater Bay			
	Material Price			
	Circuit Capacity			
	Projected Actual Utilization			
	Percent Required			
	Repeater Shelf			
	Material Price			
	Circuit Capacity			
	Projected Actual Utilization			
	Percent Required			
	Repeater			
	Material Price			
	Circuit Capacity			
	Projected Actual Utilization			
	Percent Required			
	Physical Collocation - DS3 Cross Connects			
	DSX-3 Panel Provided by another group			
	Cable			
	Material Price per foot			Note 3
	Connector Material Price per cable			
	Number Feet			
	Additional Feet if Repeater			
	Number Cables per Circuit			
	Circuit Capacity			
	Projected Actual Utilization			
	Percent Repeater Required			
	Cable Rack			
Item 26, Bates stamped page 1817, Line 71	Material Price per foot			
	Number Feet			

FPSC Dkt No. 960786-TL Staff's 3rd Request for Production of Documents 30-Aug-01	COLLOCATION	VIRTUAL Inputs	PHYSICAL Inputs	Supporting Info
	Additional Feet if Repeater			
	Circuit Capacity			Note 4
	Projected Actual Utilization			
	Percent Repeater Required			
	Repeater Bay			
	Material Price			
	Circuit Capacity			
	Projected Actual Utilization			
	Percent Required			
	Repeater Shelf		PHYSICAL	
	Material Price			
	Circuit Capacity			
	Projected Actual Utilization			
	Percent Required			
	Repeater			
	Material Price			
	Circuit Capacity			
	Projected Actual Utilization			
	Percent Required			
Item 23, Bates stamped page 1842	Physical Collocation - 2-Wire POT Bay			
	POT Bay			
	Material Price			Note 5
	Circuit Capacity			56 blocks per bay, 25 ckts per block
	Projected Actual Utilization			
	Termination Block w/Bridging Clips			
	Material Price			Note 5
	Circuit Capacity			
	Projected Actual Utilization			
Item 23, Bates stamped page 1842	Physical Collocation - 4-Wire POT Bay			
	POT Bay			
	Material Price			Note 5
	Circuit Capacity			56 blocks per bay, 12 5 ckts per block
	Projected Actual Utilization			
	Termination Block w/Bridging Clips			
	Material Price			Note 5
	Circuit Capacity			
	Projected Actual Utilization			
Item 23, Bates stamped page 1842	Physical Collocation - DS1 POT Bay			Note 6
	POT Bay			
	Material Price			
	Circuit Capacity			12 DS1 POT shelves per bay, 84 ckts per shelf
	Projected Actual Utilization			
	POT Bay Shelf			
	Material Price			
	Circuit Capacity			
	Projected Actual Utilization			
	POT Bay Module			

FPSC Dkt No. 960786-TL Staff's 3rd Request for Production of Documents 30-Aug-01	COLLOCATION	VIRTUAL Inputs	PHYSICAL Inputs	Supporting Info
	Material Price Circuit Capacity Projected Actual Utilization			
Item 23, Bates stamped page 1842	Physical Collocation - DS3 POT Bay			Note 6
	POT Bay Material Price Circuit Capacity Projected Actual Utilization			12 DS3 POT shelves per bay, 32 circuits per shelf
	POT Bay Shelf Material Price Circuit Capacity Projected Actual Utilization			
	POT Bay Module Material Price Circuit Capacity Projected Actual Utilization			
Item 23, Bates stamped page 1816, Line 40	**Note 1:** Assume 26Ga 100 Pr 806A cable OD=0 56" 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			
Item 25, Bates stamped page 1816, Line 62	**Note 2:** Assume 22Ga 616C 28 pair Cable OD = 0.64" 2' 6" Cable rack with max 10"pileup Capacity = 30/ 64 x 10/ 64 = 47 x 15 = 752 cables 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' 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 735A, 62% is 734D 735A OD = 122" , 734D OD = 0 236" 735A cross section = .122 x 122 = 0149 sq in 734D cross section = 236 x 236 = 0557 sq. in Cabl rack cross section = 30" x 10" = 300 sq in Let X = total cables; 300 = (62)(X)(0557) + (38)(X)(0149)			

FPSC Dkt No. 960786-TL Staff's 3rd Request for Production of Documents 30-Aug-01	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			
Item 23, Bates stamped page 1842	**Note 5:** DSO POT Consists of following Qty - 1 universal 7' rack @ $ Qty - 14 angle mtg bars @ Total POT Bay = . Conn Blk Matl per 25 2-wire ckts. Qty - 1 89B mtg bkts @ $ Qty. 1 66M1 Conn blk @ $ Qty 50 C bridging clips @ $ Total DSO Conn Blk cost = $ Note 5 prices quoted from Alltel Supply 11/5/98			
Item 23, Bates stamped page 1842	**Note 6** DS1 and DS3 POT Bay consists of. Qty: 1ED-8C501-50 G1 7ft Netwk Bay Frame @ : Qty 1 ED-6C157-31 G6 Interconnect Hardware @ Total Bay cost = **Note 7.** 5" cable rack - length 9' 8.5" Qty of 1 ED4C685-72 G1 @ Qty of 1 ED4C685-72 G10 @ Total =			

ATTACHMENT FOUR
(17 Pages)
PROPRIETARY

Entire Document

REDACTED

ATTACHMENT
(One Page)
PROPRIETARY

REDACTED

Price Details

Contract No: Item 1 of 1
Description: [redacted] Effective Date: [redacted]
DOUBLE SIDED COMM DISTRIBUTING BRA [redacted]

Price Type	Unit Price	Price Multiple / Unit of Measure	Break
Net Price (D)	[redacted]	[redacted]	N/A

Delivery Interval: N/A
Order Multiple Qty: N/A
Merchandise Class: 32221
[redacted]

Notes:

Add to my saved product list: Please Select

View product list: Please Select

Create new product list:

Help on this activity Return to price query

~~BOTTOM NAVBAR~~

ADD 10% to BASIC FRAME COST TO COVER MISC. ASSOCIATED HARDWARE SUCH AS WIRE RINGS, DESIGNATION BOARDS, ETC.

ATTACHMENT
(One Page)
PROPRIETARY

REDACTED

POD Item No. 24
Attachment No. 1
Page 1 of 1

Price Details

1

Contract No: Item 1 of 1

Description: **Price Effective Date:**

[redacted] [redacted]/2000 Note: JTL

Price Type	Unit Price	Price Multiple / Unit of Measure	Qty Break
Net Price (D) [redacted]			

Delivery Interval: N/A	**Stocked:** No	**Min Order Quantity:** N/A
Order Multiple Qty: N/A	**Source:** Omaha, NE	**Qty/Unit of Measure:** N/A
Merchandise Class: 32221	**Prod Weight:** N/A	**Ship Code:** Shop Mounted

Notes:

Add to my saved product list: Please Select

View product list: Please Select

Create new product list:

Help on this activity Return to price query

BOTTOM NAVBAR

2 **By initiating any Electronic Commerce transaction herein related to the purchase of goods from you are deemed to have accepted the Electronic Commerce Rules of use.**

3

PER TOM WEBER: ADD 10% to BASIC FRAME COST TO COVER MISC. ASSOCIATED HARDWARE SUCH AS WIRE RINGS, DESIGNATION BOARDS, ETC.

4

of BellSouth or any subsidiaries except

ATTACHMENT
(One Page)
PROPRIETARY

REDACTED

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

REPLY
Subject: COST Request on DSX/D4
Creator: Rhonda E. Vitale /m2,mail2a 4 - 420 - 6506

Dated: 6/10/99 at 15:14
Contents: 2

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 10/21/99

1 RJ48S SMART JACK ADA - RM2011 65% USAGE =
TELTRAN - 5712 35% USAGE

2
3
4

ATTACHMENT
(Five Pages)
PROPRIETARY

REDACTED

BELLSOUTH COLLOCATION COST STUDY

	25			50			100			150			200		
	Qty	Unit Cost	Total	Qty	Unit Cost	Total	Qty	Unit Cost	Total	Qty	Unit 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		$
Swing Door & Lockset	1		$	1		$	1		$	1		$	1		$
Additional Protection	1		$	1		$	1		$	1		$	1		$
Electrical	1		$	1		$	1		$	1		$	1		$
Grounding	1		$	1		$	1		$	1		$	1		$
Signage	1		$	1		$	1		$	1		$	1		$
General															
Cleanup	1		$	1		$	1		$	1		$	1		$
Superintendent (5%)	1		$	1		$	1		$	1		$	1		$
Contingency(5%)	1		$	1		$	1		$	1		$	1		$
Contractor Fee (12%)	1		$	1		$	1		$	1		$	1		$
A/E Fees(16%)	1		$	1		$	1		$	1		$	1		$
Project Mgmt(5%)	1		$	1		$	1		$	1		$	1		$
Total			$			$			$			$			$
Construction w/o gen cond.			$			$			$			$			$
Total Construction w/o fee			$			$			$			$			$
Total Construction w/fee			$			$			$			$			$
Incremental cost per 50sf from std. Cost (100sf)						$			$			$			$
Percentage Cost															

	250			300			350			400		
	Qty	Unit Cost	Total	Qty	Unit Cost	Total	Qty	Unit Cost	Total	Qty	Unit Cost	Total
Wire mesh panels (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		$	1		$	1		$	1		$
Grounding	1		$	1		$	1		$	1		$
Signage	1		$	1		$	1		$	1		$
General												
Cleanup	1		$	1		$	1		$	1		$
Superintendent (5%)	1		$	1		$	1		$	1		$
Contingency(5%)	1		$	1		$	1		$	1		$
Contractor Fee (12%)	1		$	1		$	1		$	1		$
A/E Fees(16%)	1		$	1		$	1		$	1		$
Project Mgmt(5%)	1		$	1		$	1		$	1		$
Total			$			$			$			$
Construction w/o gen.cond.			$			$			$			$
Total Construction w/o fee			$			$			$			$
Total Construction w/fee			$			$			$			$
Incremental cost per 50sf from std. Cost (100sf)			$			$			$			$
											Avg.Incremental cost	$
Percentage Cost												
											Total Weighted Average Incremental cost	$

What costs are recovered in space construction?

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

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%		
Total	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..

ATTACHMENT ONE
(Two Pages)
PROPRIETARY

REDACTED

Mast	Source	Cost	
Physical Collocation - 2 Fiber (Singlemode) Cross Connects			
LGX Bay			
Bay Prwk	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		
Projected Actual Utilization	Network Planning & Support		
LGX Shelf			LGX shelves will be fully eqp'd for 72 fiber terminations when initially installed
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 (2 fiber bldg cable)			
[illegible]	Network Planning & Support		
Number Feet	Network Planning & Support		Note 4 Note - add total 15ft for drop ends - 345ft
[illegible]	Network Planning & Support		
[illegible]	Network Planning & Support		Note 5
[illegible]			
[illegible]			
Cable Rack 5" ED4C686 -72			Note 1
Material Price per foot	Network Planning & Support		
Number Feet	Network Planning & Support		Note 4
2 fiber Circuit Capacity	Network Planning & Support		Note 2
Projected Actual Utilization	Network Planning & Support		
Fiber Cable (4 fiber bldg cable)			
[illegible]	Network Planning & Support		
Number Feet	Network Planning & Support		Note 4 Note - add total 15ft for drop ends - 345ft
[illegible]	Network Planning & Support		
[illegible]	Network Planning & Support		Note 6
[illegible]			
[illegible]			
Cable Rack 5" ED4C686 -72			Note 1
Material Price per foot	Network Planning & Support		
Number Feet	Network Planning & Support		Note 4
4 fiber Circuit Capacity	Network Planning & Support		Note 2
Projected Actual Utilization	Network Planning & Support		
Physical Collocation - Fiber POT Bay			
POT Bay			
Material Price	Network Planning & Support		
Circuit Capacity	Network Planning & Support		
Projected Actual Utilization			
POT Bay Shelf c/w locks			
Shelf (12 ckt, 24 fiber capacity)	Network Planning & Support		POT bay shelves will be eqp'd with coupler panels and couplers as req'd based upon service request
Coupler Panel (1 per 6 fibers, 4 max)	Network Planning & Support		One coupler panel is required to terminate a 6 fiber cable
SC Coupling (1 per fiber, 24 max)	Network Planning & Support		Six couplers are required per 6 fiber cable
Projected Actual Utilization			
[illegible]	Network Planning & Support		Assume 1 per 24 2 fiber ckts occupies one of max 12 POT shelf positions in POT bay
Direct Interconnection Cable Support			
(data provided for computation of cable support cost/linear foot; billing should be based upon installed cable circuit capacity not circuits placed in service)			
DS0			
Cable Rack			
Material Price per foot	Network Planning & Support		
Circuit Capacity	Network Planning & Support		
Projected Actual Utilization		use DS0 xxxnn	
DS1			
Cable Rack			
Material Price per foot	Network Planning & Support		
Circuit Capacity	Network Planning & Support		
Projected Actual Utilization		use DS1 xxnn	

Sheet1

Cost

DS1
Cable Rack
Material Price per foot — Network Planning & Support
Circuit Capacity — Network Planning & Support
Projected Actual Utilization — use DS3 comm

FIBER Cable Rack (5 inch)
Material Price per foot — Network Planning & Support
Circuit Capacity — Network Planning & Support
Projected Actual Utilization

Note 3

FIBER Duct
Material Price per foot — Network Planning & Support
Circuit Capacity — Network Planning & Support
Projected Actual Utilization

Note 1 5" Cable rack material cost
ED4C585-72 G-1 $99 60 (rack)
G-10 $80 60 (horns)
G-66 $8 88 (support detail)
G-106 $17 19 (threaded rod)
$208 27/9 71' = $21 24/ft

Note 3: Fiber Duct Components/60ft run
10 - 4x4 Straight Duct 6' $32.97ea
2 - 4x4 Elbow $49 31ea
10 - 4x4 Splice $1 86ea
5 - Support Decals $3 23ea
5 - threaded rod $17 19ea
Total per 60ft = $549 02
Matl Cost per Foot = $9 15
Fiber Patchcord Capacity from ADC catalog
Assumes 3mm patchcords, 2/clit

Cable length changed to 300 ft.

ATTACHMENT TWO
(Three Pages)
PROPRIETARY

REDACTED

FPSC Dkt No 960786-TL	Mat'l	Source	Cost							
Staff's 3rd Request for										
Production of Documents										
30-Aug-01										
	Physical Collocation - 2 Fiber (Singlemode) Cross Connects									
	LGX Bay									
	Bay Frwk	Network Planning & Support								
	Retainers JR4C8 (2)	Network Planning & Support								
	Lightguide Kit (2)	Network Planning & Support								
Item 28, Bates stamped page 1817, Line 88	Total Material Price	Network Planning & Support								
Item 28, Bates stamped page 1817, Line 89	Circuit Capacity	Network Planning & Support		LGX Bay max capacity of 9 LGX Shelves (9 X 32 Ckts = 324 2 fiber ckts)						
	Projected Actual Utilization	Network Planning & Support								
	LGX Shelf			LGX shelves will be fully eqp'd for 72 fiber terminations when initially installed						
	Shelf	Network Planning & Support								
	Coupler Panel (12)	Network Planning & Support								
	SC Coupling (72)	Network Planning & Support								
Item 28, Bates stamped page 1817, Line 92	Total Material Price	Network Planning & Support								
Item 28, Bates stamped page 1817, Line 93	Circuit Capacity	Network Planning & Support		LGX shelf termination capacity = 72 fibers or 36 2-fiber circuits						
	Projected Actual Utilization	Network Planning & Support								
	Fiber Cable (2 fiber bldg cable)									
	Material Price per foot ($33 38-100)	Network Planning & Support								
	Number Feet	Network Planning & Support		Note 4	Note - add total 15ft for drop ends - 345ft					
	Projected Actual Utilization	Network Planning & Support								
	SC Plug Price (11 81 ea) 4 per 2 fiber cable	Network Planning & Support		Note 5						
	Sub total cable & SC plugs									
	Factory assembly charge (estimated)									
	Total plug eqp'd 2 fiber cable									
	Cable Rack 5" ED4C685 72			Note 1						
	Material Price per foot	Network Planning & Support								
	Number Feet	Network Planning & Support		Note 4						
	2 fiber Circuit Capacity	Network Planning & Support		Note 2						
	Projected Actual Utilization	Network Planning & Support								
	Fiber Cable (4 fiber bldg cable)									
	Material Price per foot ($55 96-100)	Network Planning & Support								
	Number Feet	Network Planning & Support		Note 4	Note - add total 15ft for drop ends - 345ft					
	Projected Actual Utilization	Network Planning & Support								
	SC Plug Price (11 80 ea) 8 per 4-fiber cable	Network Planning & Support		Note 5						
	Sub total cable & SC plugs									
	Factory assembly charge (estimated)									
	Total plug eqp'd 4 fiber cable									
	Cable Rack 5" ED4C685 -72			Note 1						
	Material Price per foot	Network Planning & Support								
	Number Feet	Network Planning & Support		Note 4						
	4 fiber Circuit Capacity	Network Planning & Support		Note 2						
	Projected Actual Utilization	Network Planning & Support								

FPSC Dkt No 980786-TL	Matl	Source	Cost							
Staff's 3rd Request for										
Production of Documents										
30-Aug-01										
	Physical Collocation - Fiber POT Bay									
	POT Bay									
	Material Price	Network Planning & Support								
	Circuit Capacity	Network Planning & Support								
	Projected Actual Utilization									
	POT Bay Shelf w/w locks									
	Shelf (12 ckt, 24 fiber opacity)	Network Planning & Support		POT bay shelves will be eqp'd with coupler panels and couplers as req'd based upon service request						
	Coupler Panel (1 per 6 fibers, 4 max)	Network Planning & Support		One coupler panel is required to terminate a 6 fiber cable						
	SC Coupling (1 per fiber 24 max)	Network Planning & Support		Six couplers are required per 6 fiber cable						
	Projected Actual Utilization									
	Create fiber cable storage shelf	Network Planning & Support		Assume 1 per 24 24fiber ckts, occupies one of max 12 POT shelf positions in POT bay						
	Direct Interconnection Cable Support									
	(data provided for computation of cable support cost/linear foot; billing should be based upon installed cable circuit capacity not circuits placed in service)									
	DS0									
	Cable Rack									
	Material Price per foot	Network Planning & Support								
	Circuit Capacity	Network Planning & Support								
	Projected Actual Utilization									
	DS1									
	Cable Rack									
	Material Price per foot	Network Planning & Support								
	Circuit Capacity	Network Planning & Support								
	Projected Actual Utilization									
	DS3									
	Cable Rack									
	Material Price per foot	Network Planning & Support								
	Circuit Capacity	Network Planning & Support								
	Projected Actual Utilization									
	FIBER Cable Rack (5 inch)									
	Material Price per foot	Network Planning & Support								
Item 28, Bates stamped page 1817, Line 97	Circuit Capacity	Network Planning & Support		Updated to reflect 2 fiber bldg cable capacity						
	Projected Actual Utilization									
	FIBER Duct			Note 3						
	Material Price per foot	Network Planning & Support								
	Circuit Capacity	Network Planning & Support								
	Projected Actual Utilization									
Item 28, Bates stamped page 1817, Line 96	Note 1 5 " Cable rack material cost									
	ED4C685-72 G-1									

FPSC Dkt No 960786-TL	Matl	Source	Cost							
Staff's 3rd Request for										
Production of Documents										
30-Aug-01										
Item 28, Bates stamped										
page 1817, Line 97	Note 2									
	For 2 fiber LGBC OD = 16"									
	Assume cable pileup to max of 5"									
	Max cables = 5/ 16 X 5/ 16 = 771									
	2 Fiber circuit cap = 771 X 1 = 771									
Item 28, Bates stamped										
page 1817, Line 112	For 4 fiber LGBC OD = 185"									
	Assume cable pileup to max of 5"									
	Max cables = 5/ 185 X 5/ 185 = 730									
	4 Fiber circuit cap = 730 X 1 = 730									
	Note 3. Fiber Duct Components/60ft run									
	10 - 4x4 Straight Duct 8'									
	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									
	Assumes 3mm patchcords, 2/slot									
	Note 4. Cable length changed to 300 ft									
	plus 15ft for avg (7.5 ft drop on both ends)									
	Note 5. Each fiber within a cable must be									
	capped with an SC plug on each end of the									
	fiber. Assume a 24 fiber cable will be									
	capped with 48 connectors, a 6 fiber cable									
	will be capped with 12 connectors, etc									

ATTACHMENT
(Three Pages)
PROPRIETARY

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

Dated: 10/4/99 at 1
Contents: 2

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

Month	Active Cards
1	70,000
2	70,953
3	71,906
4	72,859
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
19	87,154
20	88,107
21	89,060
22	90,013
23	90,966
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

1,304 new card activation
351 card deactivation
953 net gain per month

86,678 Midpoint Active Cards
128,000 Apogee System Capacity

86,678 ÷ 128,000 = 67.72%

67.72% Projected Actual Utilization

Woodson E. Elston /m6,mail6a 9/30/99 12:25

POD Item No. 29
Attachment No. 1

MESSAGE
Subject: Cost Accounting Information for Collocation
Sender: Rusty M. Foster /m3,mail3a

Dated: 9/30/99 at
Conten

Item 1

TO: Woodson E. Elston /m6,mail6a
CC: Lynetta Baldwin /m6,mail6a; PHONE=205-321-4455
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

86203
19

Item 2

Woody,

Listed below is the information you requested:

	Field Reporting Code	RTC	COST	
Card Access Hardware	530C(inside data cntr)	523	?	
	630C (outside data cntr)	523		New Syst.
Card Access Software	460C	61J		New Syst.
Hardware Mntce	930M	481		Extg.

Submitted,

Rusty Foster 205-321-4793

Card Access Software (206K)

FRC
460C
-00

Application SW on (2) server
Multiple Site ~~Facility~~ Code Software (2)
Work stations (15) (addl application)
Oracle dB RTU fee
Server Hot Redundant w/ 2 collocation
Backward Compatibility (375 existing)
VCSN competitive

$205,875 – (206K)

(1609)

375 of 400

① # cards
② server size

(65,000) cards
(68K max)

(60-70,000)
(million)
(APOGEE)

Strategies ⇒ cards
12-13 keys

128,000

ATTACHMENT ONE
(Two Pages)
PROPRIETARY

REDACTED

Collocation Space Preparation Standard ICB Rate Worksheet (Network Construction)
Issue 2 - 1/6/00

Driver Description	#	Vendor	First Unit Engrg Hrs	First Unit Labor Hrs	First Unit Minor Matl	First Unit Avg	Subsequent Units Engrg Hrs	Subsequent Units Labor Hrs	Subsequent Units Minor Matl	Subsequent Units Avg	Cageless Qty FUs	Cageless Qty SUs	Cageless Total $	$/Sq Ft	Caged or Non-conventional Cageless Qty FUs	Caged or Non-conventional Cageless Qty SUs	Caged or Non-conventional Cageless Total $	$/Arrangement
Cable Rack - panned 15' (switchboard)	101	ADC	2	4			2	4										
		6R	3	3			0 75	1 75										
		Lucent	2 05	8			0 84	6										
			2 36	6 00			1 20	3 92			12	12		$23 74	8	0		$857 69
Cable Rack - nonpanned 15 (power)	102	ADC	2	4			2	4										
		6R	3	3			0 75	1 75										
		Lucent	2 05	8			0 84	6										
			2 35	5 00			1 20	3 92			12	12		$22 50	8	0		$816 40
Cross-aisle cable rack	104	ADC	2	3			2	3										
		6R	1 6	1			0 75	1										
		Lucent	1 6	4			0 84	3										
			1 70	2 67			1 20	2 33			12	9		$13 64	0	0		$0 00
AC - main feed to bay	106	ADC																
		6R	3	4			0 75	3										
		Lucent	2	10			1	10										
			2 50	7 00			0 88	5 50			5	0		$6 05	8	0		$968 24
Auxiliary Supports	107	ADC	1 41	4 4			1 41	4 4										
		6R	3	1 6			0 75	1										
		Lucent	1 5	6			0 33	6										
			1 97	3 97			0 83	3 80			4	12		$8 79				$219 65
Stanchion	108	ADC	1	2			1	2										
		6R	3	1 6			0 75	1										
		Lucent	0 86	3			0 36	3										
			1 62	2 17			0 70	2 00			12	28		$13 97	2	8		$340 28
Main Aisle Conduit	109	ADC	1	2 61			1	2 61										
		6R	3	3			0 75	2										
		Lucent	1 66	4			0 81	4										
			1 88	3 17			0 85	2 84			2	2		$2 63	2	2		$263 36
Main Aisle Ground 2/0	110	ADC	2	4			2	4										
		6R	3	6			0 75	3 75										
		Lucent	1	4			0 75	4										
			2 00	4 67			1 17	3 92			1	0		$0 61	1	0		$61 40
Light Fixture - double tube	114	ADC	1	2			1	2										
		6R	3	4			0 75	2										
		Lucent	1	9			0 6	6										
			1 67	5 00			0 75	3 33			6	12		$19 76	0	0		$0 00
Cable hole establishment	116	ADC																
		6R	3	4			0 75	4										
		Lucent	5	2 61			2	2 61										
			4 00	3 26			1 38	3 26			2	0		$2 54	2	0		$254 31
Fiber Duct (Use 50% of driver # 11)	11		0 83	1 71			0 36	1 17			12	30		$17 01	8	8		$673 23
Cageless $/Sq Ft														$131 15				
Caged or Nonconventional Cageless $/Arrangement																		$4,454 55

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 cageless 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 "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 cost/sq ft a cost study can determine a recurring rate to apply to every sq ft. of cageless collocation space All TelCo loadings must be applied to

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.

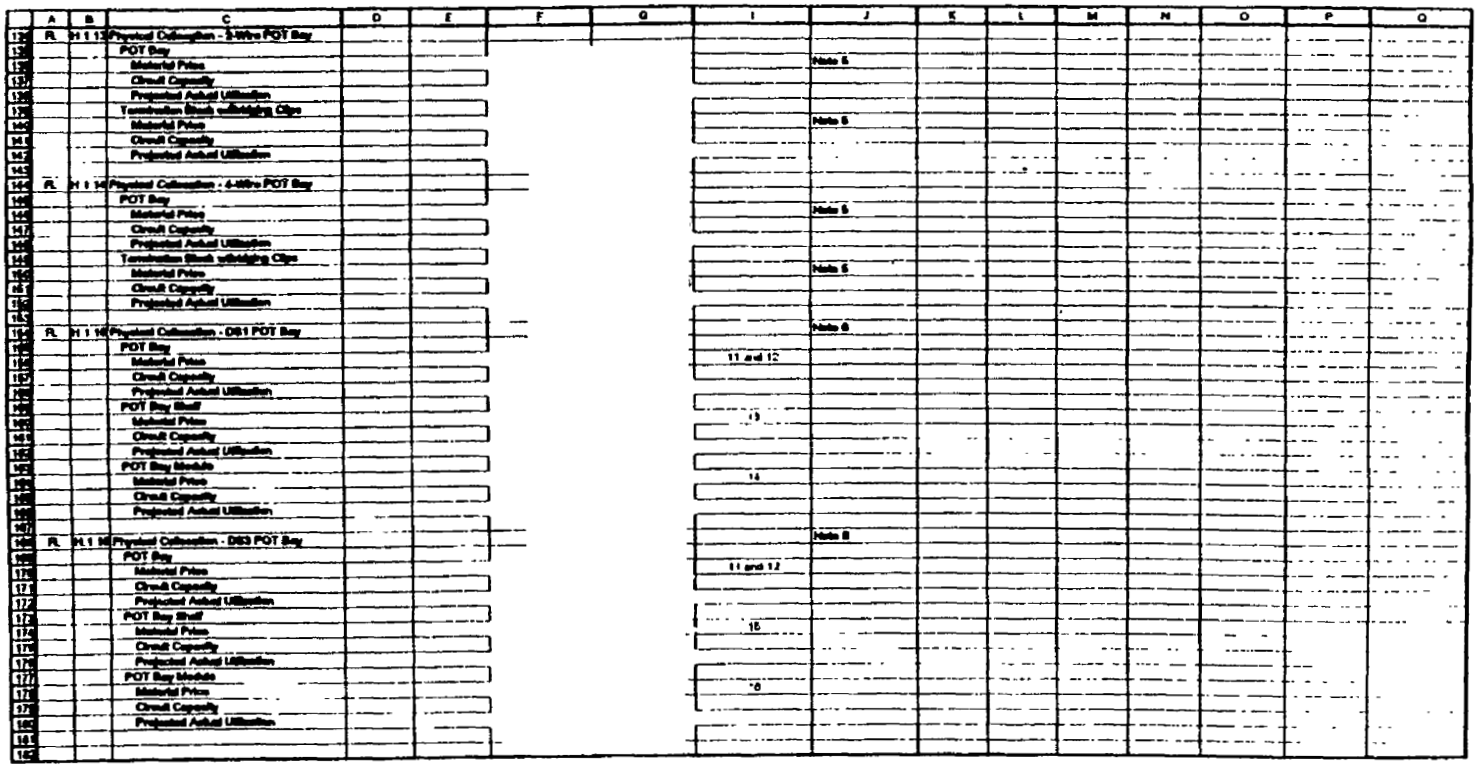
The recurring charge for cross-connects should not be impacted by the standard rate space preparation charge Cross connects will continue to require utilization of via or main aisle cable support to deliver the service from the collocated equipment to the demarcation point.

It must be emphasized 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

Typical Physical Collocation Cageless Layout

ATTACHMENT
(Two Pages)
PROPRIETARY

REDACTED



	A	B	C	D	E	F	G	I	J	K	L	M	N	O	P	Q
12	RL	H1.13	Physical Collocation - 2-Wire POT Bay													
13			POT Bay													
14			Material Price						Note 5							
15			Circuit Capacity													
16			Projected Actual Utilization													
17			Termination Block w/Bridging Clips													
18			Material Price						Note 5							
19			Circuit Capacity													
20			Projected Actual Utilization													
21																
22	RL	H1.14	Physical Collocation - 4-Wire POT Bay													
23			POT Bay													
24			Material Price						Note 5							
25			Circuit Capacity													
26			Projected Actual Utilization													
27			Termination Block w/Bridging Clips													
28			Material Price						Note 5							
29			Circuit Capacity													
30			Projected Actual Utilization													
31																
32	RL	H1.15	Physical Collocation - DS1 POT Bay						Note 6							
33			POT Bay					11 and 12								
34			Material Price													
35			Circuit Capacity													
36			Projected Actual Utilization													
37			POT Bay Shelf													
38			Material Price					13								
39			Circuit Capacity													
40			Projected Actual Utilization													
41			POT Bay Module													
42			Material Price					14								
43			Circuit Capacity													
44			Projected Actual Utilization													
45																
46	RL	H1.16	Physical Collocation - DS3 POT Bay						Note 8							
47			POT Bay					11 and 12								
48			Material Price													
49			Circuit Capacity													
50			Projected Actual Utilization													
51			POT Bay Shelf													
52			Material Price					15								
53			Circuit Capacity													
54			Projected Actual Utilization													
55			POT Bay Module													
56			Material Price					16								
57			Circuit Capacity													
58			Projected Actual Utilization													
59																
60																

POD Item No. 32
Attachment No. 1
Page 1 of 2

ATTACHMENT ONE
(Two Pages)
PROPRIETARY

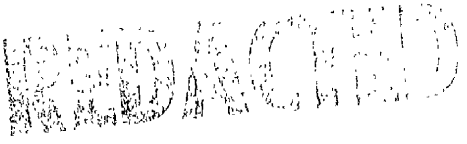
REDACTED

Entire Document

ATTACHMENT TWO
(Six Pages)
PROPRIETARY

Entire Doc

ATTACHMENT ONE
(Two Pages)
PROPRIETARY



FPSC Dkt No. 960786-TL
Staff's 3rd Request for Production of Documents
30-Aug-01

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

DS1 Assembly Point Eqpt 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 1866, Line 61

- Material Price per foot
- 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 1866, Line 71

- Material Price
- Circuit Capacity — (Max of 8 shelves per bay)
- Projected Actual Utilization

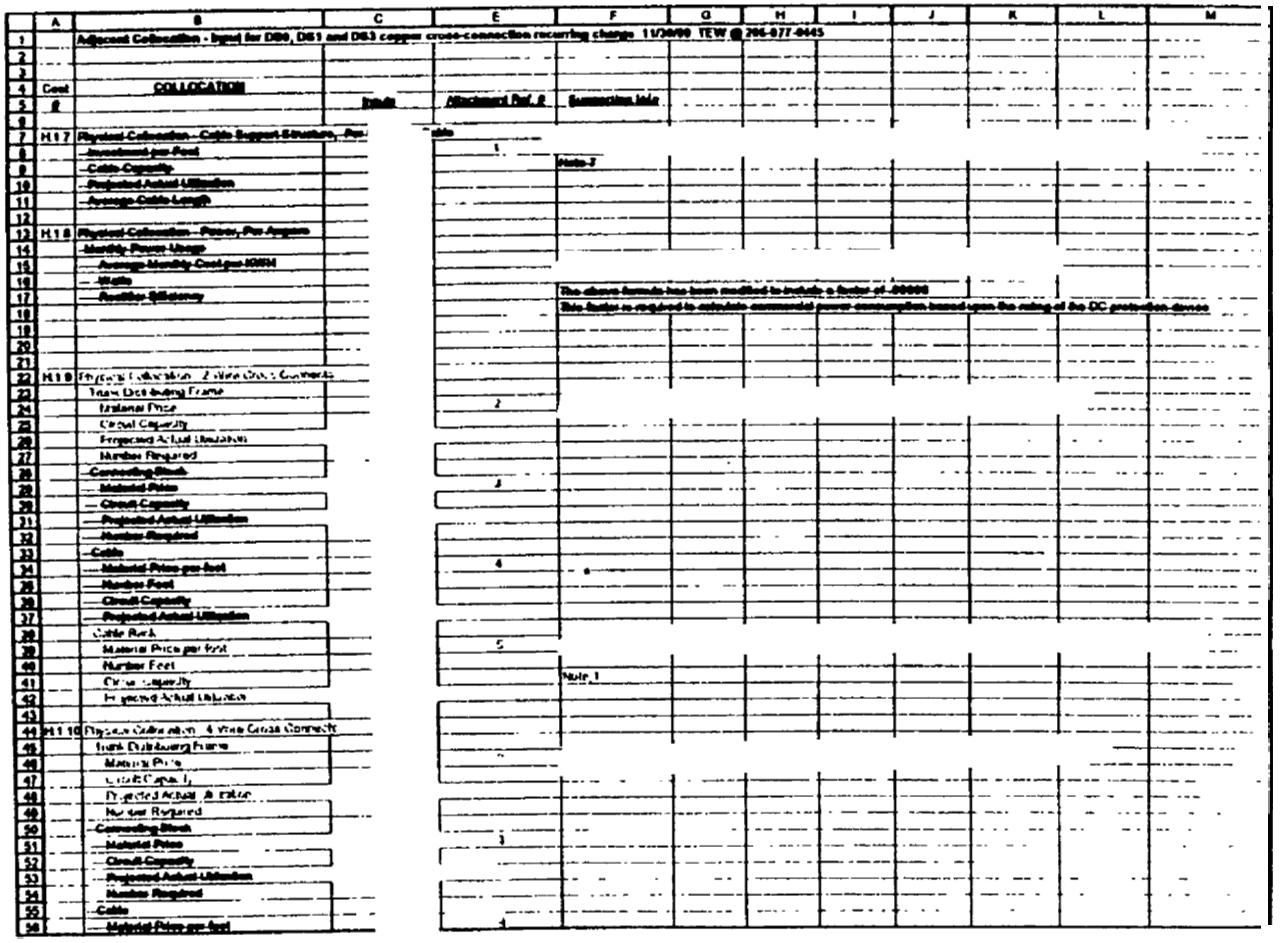
Repeater Shelf

Item 34, Bates stamped page 1866, Line 75

- Material Price
- Circuit Capacity — (per shelf)
- Projected Actual Utilization

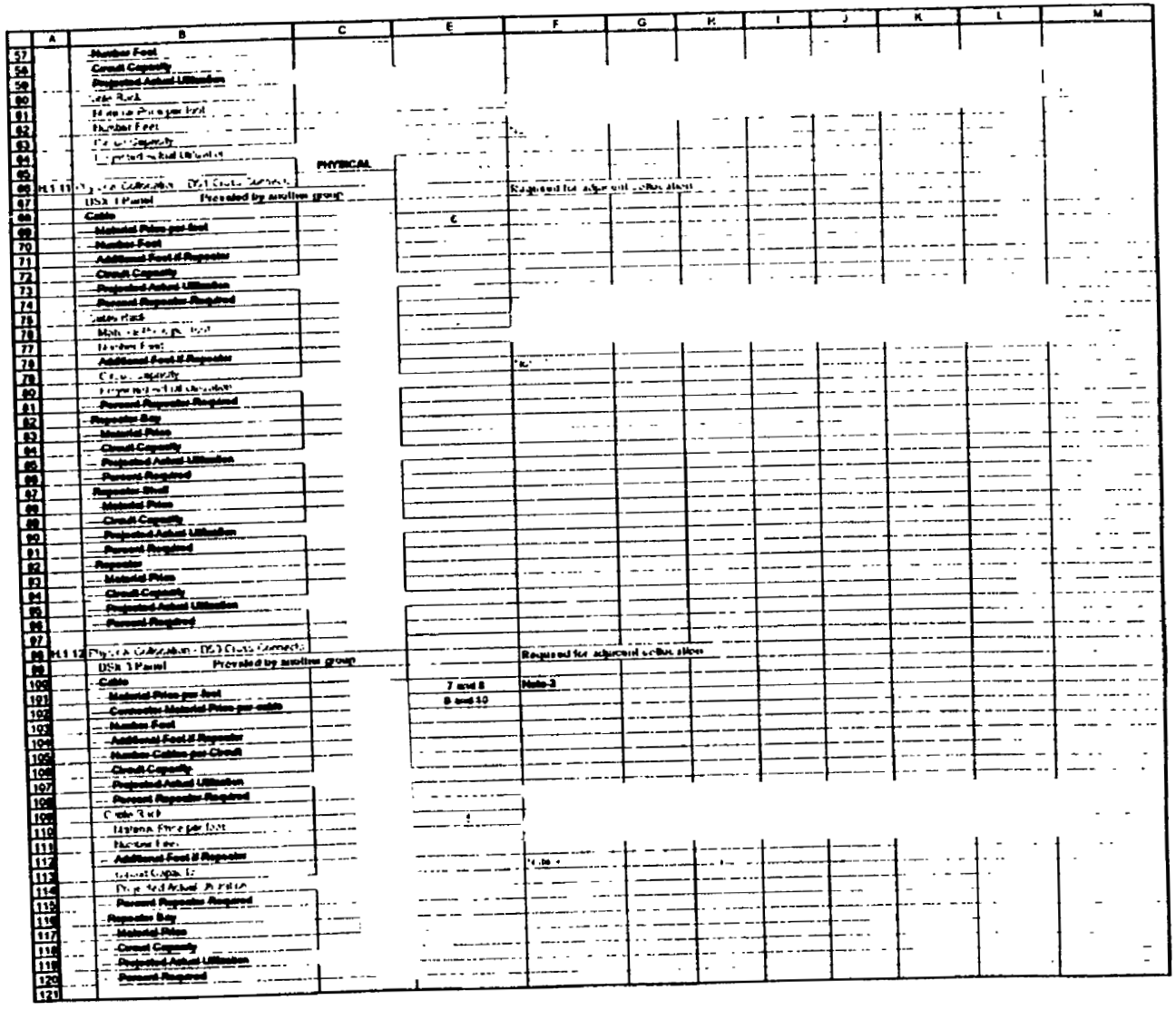
ATTACHMENT THREE
(Four Pages)
PROPRIETARY

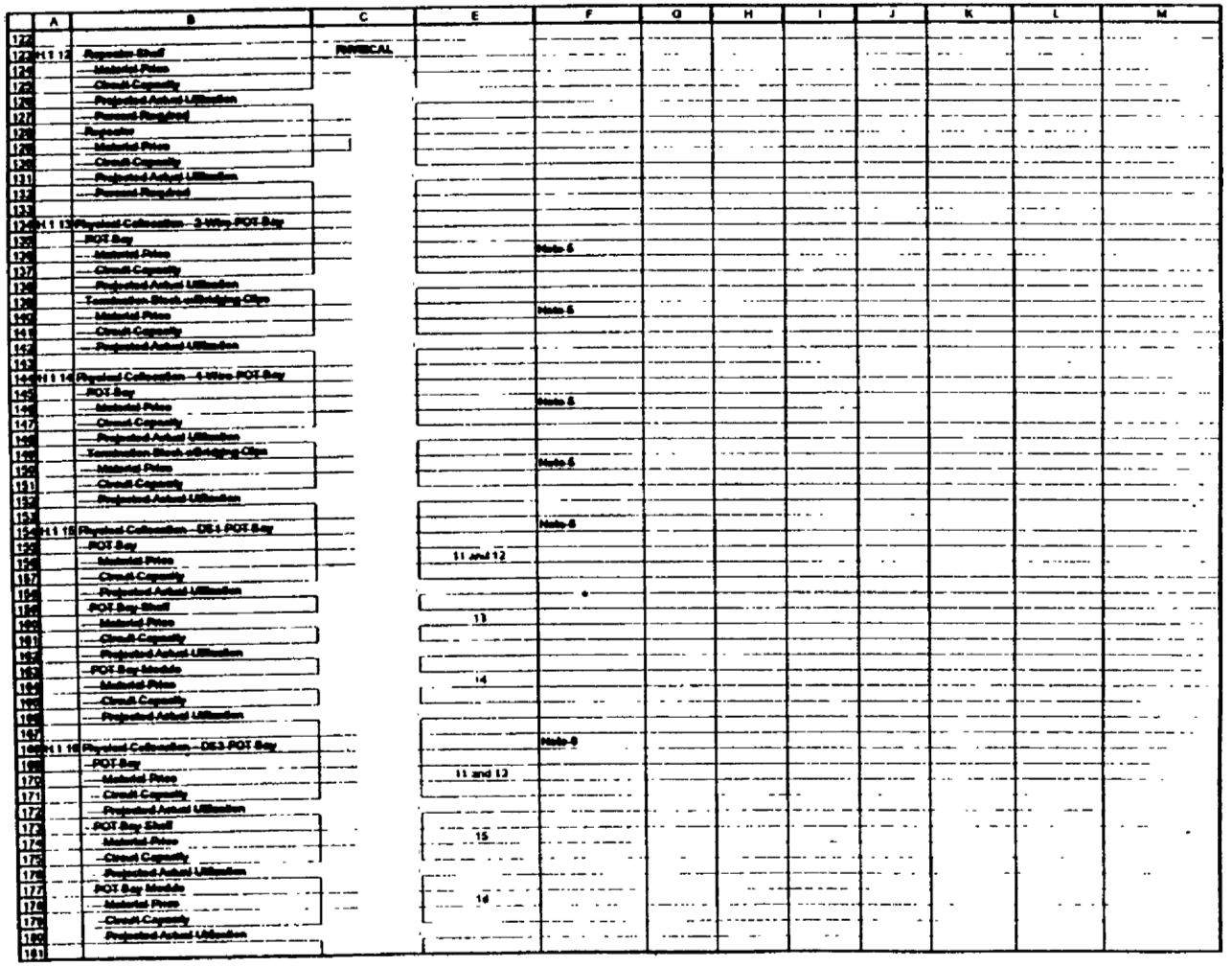
REDACTED



	A	B	C	E	F	G	H	I	J	K	L	M
1		Adjacent Collocation - Input for DS0, DS1 and DS3 copper cross-connection recurring charge 11/30/99 ITEW @ 205-977-0445										
2												
3												
4	Cost	COLLOCATION										
5	#		Inputs	Attachment Ref. #	Supporting Info							
6												
7	H17	Physical Collocation - Cable Support Structure, Per		Note								
8		Investment per Foot		1								
9		Cable Capacity			Note 2							
10		Projected Actual Utilization										
11		Average Cable Length										
12												
13	H18	Physical Collocation - Power, Per Ampere										
14		Monthly Power Usage										
15		Average Monthly Cost per KWH										
16		Watts										
17		Rectifier Efficiency										
18					The above formula has been modified to include a factor of .66666							
19					This factor is required to calculate commercial power consumption based upon the rating of the DC protection device							
20												
21												
22	H19	Physical Collocation - 2 Wire Cross Connects										
23		Team Dedicating Frame										
24		Material Price		2								
25		Circuit Capacity										
26		Projected Actual Utilization										
27		Number Required										
28		Connecting Block										
29		Material Price		3								
30		Circuit Capacity										
31		Projected Actual Utilization										
32		Number Required										
33		Cable										
34		Material Price per foot		4								
35		Number Feet										
36		Circuit Capacity										
37		Projected Actual Utilization										
38		Cable Rack										
39		Material Price per foot		5								
40		Number Feet										
41		Circuit Capacity			Note 1							
42		Projected Actual Utilization										
43												
44	H110	Physical Collocation - 4 Wire Cross Connects										
45		Team Dedicating Frame										
46		Material Price										
47		Circuit Capacity										
48		Projected Actual Utilization										
49		Number Required										
50		Connecting Block										
51		Material Price		3								
52		Circuit Capacity										
53		Projected Actual Utilization										
54		Number Required										
55		Cable										
56		Material Price per foot		4								

POD Item No. 36
Attachment No. 3
Page 1 of 4


PHYSICAL
Required for adjacent collocation sites
Provided by another group
Required for adjacent collocation sites
Provided by another group
7 and 8
8 and 10
Note 3



	A	B	C	E	F	G	H	I	J	K	L	M
122												
123	H1 12	Expander Shelf	PHYSICAL									
124		Material Price										
125		Circuit Capacity										
126		Projected Actual Utilization										
127		Percent Required										
128		Expander										
129		Material Price										
130		Circuit Capacity										
131		Projected Actual Utilization										
132		Percent Required										
133												
134	H1 13	Physical Collocation - 2-Wire POT Bay										
135		POT Bay			Note 6							
136		Material Price										
137		Circuit Capacity										
138		Projected Actual Utilization										
139		Termination Block w/Bridging Clips			Note 6							
140		Material Price										
141		Circuit Capacity										
142		Projected Actual Utilization										
143												
144	H1 14	Physical Collocation - 4-Wire POT Bay										
145		POT Bay			Note 6							
146		Material Price										
147		Circuit Capacity										
148		Projected Actual Utilization										
149		Termination Block w/Bridging Clips			Note 6							
150		Material Price										
151		Circuit Capacity										
152		Projected Actual Utilization										
153												
154	H1 15	Physical Collocation - DS1 POT Bay			Note 6							
155		POT Bay										
156		Material Price		11 and 12								
157		Circuit Capacity										
158		Projected Actual Utilization										
159		POT Bay Shelf										
160		Material Price		13								
161		Circuit Capacity										
162		Projected Actual Utilization										
163		POT Bay Module										
164		Material Price		14								
165		Circuit Capacity										
166		Projected Actual Utilization										
167												
168	H1 16	Physical Collocation - DS3 POT Bay			Note 6							
169		POT Bay										
170		Material Price		11 and 12								
171		Circuit Capacity										
172		Projected Actual Utilization										
173		POT Bay Shelf										
174		Material Price		15								
175		Circuit Capacity										
176		Projected Actual Utilization										
177		POT Bay Module										
178		Material Price		16								
179		Circuit Capacity										
180		Projected Actual Utilization										
181												

	A	B	C	E	F	G	H	I	J	K	L	M
182												
183		Note 1. Assume 20Ga 100 Pr 808A cable OD=0.56"										
184		2' 6" Cable rack with max. 10" piling										
185		Capacity = 30/.56 x 10/0.56 = 54 x 18 = 972 cables										
186		2wire Circuits = 972 x 100 = 97,200										
187		4wire circuits = 972 x 100/2 = 48600										
188												
189		Note 2: Assume 22Ga 610C 28 pair Cable OD = 0.64"										
190		2' 6" Cable rack with max. 10" piling										
191		Capacity = 30/.64 x 10/.64 = 47 x 16 = 752 cables										
192		DS1 Circuits = 752 x 14 = 10,528										
193												
194		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 465'. 10% beyond 465' require repeaters. 90% less than 465'										
195		Cables between 100 and 250 = 150/365 =42.3%. Cables between 250 and 465' = 206/365 = 57.7%										
196		735A cable utilization = .423 x 90% = 38%										
197		734D cable utilization = 100% - 38% = 62%										
198		734D = $.59/ft 735A = $.36/ft										
199		$/ft=(.59)(.62)+(.36)(.38)= $.49/ft										
200												
201		Note 4. From note 3, 38% of DS3 cable is 735A, 62% is 734D										
202		735A OD = .122", 734D OD = 0.236"										
203		735A cross section = .122 x .122 = .0149 sq. in										
204		734D cross section = .236 x .236 = .0557 sq. in.										
205		Cable rack cross section = 30" x 10" = 300 sq in										
206		Let X = total cables, 300 = (.62)(X)(.0557) + (.38)(X)(.0149)										
207		.034534X + .005662X = 300										
208		.040196X = 300										
209		X = 7463										
210		Capacity = 7463/2 = 3732										
211		735A cables = .38 (7463) = 2836										
212		734D cables = .62(7463) = 4627										
213		Assume this same mix for adjacent allocation.										
214												
215												
216		Note 5: DSO POT Consists of following:										
217		Qty - 1 universal 3" rack @										
218		Qty - 14 angle mtg bars @										
219		Total POT Bay = $640.74										
220												
221		Conn. Bk. Mod per 28. 2-wire ckts.										
222		Qty - 1 - 089 mtg bkts @ $										
223		Qty - 1 - 89A1 Conn Bk @										
224		Qty 64 C bridging clips @										
225		Total DSO Conn Blk cost										
226		Note 5 prices quoted from Allied Supply 11/5/96										
227												
228		Note 6. DS1 and DS3 POT Bay consists of:										
229		Qty. 1ED-8C501-50 G1 7ft. Notch Bay Frame @										
230		Qty. 1 ED-8C167-31 G6 Interconnect Hardware										
231		Total Bay cost = $1,280.18										
232												
233		Note 7. 5" cable rack - length 8' & 5"										
234		Qty of 1 ED4C886-72 G1 @										
235		Qty of 1 ED4C886-72 G10										
236		Total = $10.98/ft										
237												

POD Item No. 36
Attachment No. 3
Page 4 of 4

ATTACHMENT FOUR
(Two Pages)
PROPRIETARY

REDACTED

	A	B	C	E	F	G	H	I	J	K	L
1	FPSC Dkt No 960786-TL	Adjacent Collocation - Input for DS0, DS1 and DS3 copper cross-connection recurring charge									
2	Staff's 3rd Request for										
3	Production of Documents										
4	30-Aug-01	COLLOCATION									
5			Inputs	Supporting Info							
6	Item 36, Bates stamped page 1879, Line 23 - 59	Physical Collocation - 2-Wire Cross Connects									
7		Cable Rack									
8		Material Price per foot		Rack =							
9		Number Feet									
10		Circuit Capacity		Note, 1							
11		Projected Actual Utilization									
12											
13		Physical Collocation - 4-Wire Cross Connects									
14		Cable Rack									
15		Material Price per foot		Rack =							
16		Number Feet									
17		Circuit Capacity		Note 1							
18		Projected Actual Utilization									
19											
20		Physical Collocation - DS1 Cross Connects									
21		Cable Rack									
22		Material Price per foot		Rack =							
23		Number Feet									
24		Circuit Capacity		Note 2							
25		Projected Actual Utilization									
26											
27		Physical Collocation - DS3 Cross Connects									
28		Cable Rack									
29		Material Price per foot		Rack =							
30		Number Feet									
31		Circuit Capacity		Note 4							
32		Projected Actual Utilization									
33											
34		Note 1: Assume 26Ga 100 Pr 806A cable OD=0 56"									
35		2' 6" Cable rack with max 10"pileup									
36		Capacity = 30/ 56 x 10/0 56 = 54 x 18 = 972 cables									
37		2wire Circuits = 972 x 100 = 97,200									
38		4wire circuits = 972 x 100/2 = 48600									
39											
40		Note 2: Assume 22Ga 616C 28 pair Cable OD = 0 64"									
41		2' 6" Cable rack with max 10"pileup									
42		Capacity = 30/.64 x 10/ 64 = 47 x 15 = 752 cables									
43		DS1 Circuits = 752 x 14 = 10,528									
44											
45		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' require repeaters 90% less than 455'.									
46		Cables between 100 and 250 = 150/355 =42 3%. Cables between 250 and 455' = 205/355 = 57.7%									
47		735A cable utilization = 423 x 90% = 38%									
48		734D cable utilization = 100% - 38% = 62%									
49		734D = $.550/ft 735A = $ 388/ft									
50		$/ft=(550)x(62)+(.388)(38)= $.488/ft									

	A	B	C	E	F	G	H	I	J	K	L
51											
52		**Note 4** from note 3, 38% of DS3 cable is 735A, 62% is 734D									
53		735A OD = 122" , 734D OD = 0 236"									
54		735A cross section = 122 x .122 = 0149 sq in									
55		734D cross section = .236 x 236 = 0557 sq in									
56		Cabl rack cross section = 30" x 10" = 300 sq in									
57		Let X = total cables, 300 = (62)(X)(0557) + (38)(X)(0149)									
58		034534X + 005662X = 300									
59		040196X = 300									
60		X = 7463									
61		Capacity = 7463/2 = 3732									
62		735A cables = .38 (7463) = 2836									
63		734D cables = .62(7463) = 4627									
64											
65											
66											
67		**Note 7** 5" cable rack - length 9' 8 5"									
68		Qty of 1 ED4C685-72 G1 @									
69		Qty of 1 ED4C685-72 G10 (									
70		Total = $19 96/ft.+									

ATTACHMENT FIVE
(Two Pages)
PROPRIETARY

REDACTED

FPSC Dkt No. 960786-TL							
Staff's 3rd Request for							
Production of Documents							
30-Aug-01		Matl	Source	Cost			
Item 36, Bates stamped page 1879, Line 61 - 89		Physical Collocation - 2 Fiber (Singlemode) 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 (Singlemode) 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				

		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
		For 2 fiber LGBC OD =.18"	
		Assume cable pileup to max of 5"	
		Max cables = 5/.18 X 5/.18 = 771	
		2 Fiber circuit cap = 771 X 1 = 771	
		For 4 fiber LGBC OD =.185"	
		Assume cable pileup to max of 5"	
		Max cables = 5/.185 X 5/.185 = 730	
		4 Fiber circuit cap = 730 X 1 = 730	

ATTACHMENT
(11 Pages)
PROPRIETARY

DLC PRICE CALCULATOR

Unbundled Sub-Loop Concentration Housing

Study: **Housing**
Date: **May-00**
Study Period: **2000-2002**

Source:	Network	Network	Finance	G = C	E / B	Network	F x G
	Available Bays per Housing	1998 Material Price per Housing		1998 Material Price	1998 Material Price per Bay	Probability of Occurrence	Weighted Material
Cabinets							
Mesa6 (257C-37)	6					33.33%	
Huts							
Hut-Maxi (10C-00)	17					33.33%	
Vaults							
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)

DLC PRICE CALCULATOR

Unbundled Sub-Loop Concentration Housing

Study: Housing
Date: May-00
Study Period: 2000-2002

Source	Network	Network	Finance	G = C	E / B	Network	F x G
	Available Bays per Housing	1998 Material Price per Housing	TPI	1998 Material Price per Housing	1998 Material Price per Bay	Probability of Occurrence	Weighted Material
Cabinets							
Mesa6 (257C-37)	6		n/a			33.33%	
Huts							
Hut-Maxi (10C-00)	17		n/a			33.33%	
Vaults							
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)

ATTACHMENT A

6' x 24' CONTROLLED ENVIRONMENT VAULT

6' x 24' CONTROLLED ENVIRONMENT VAULT

PRICING SUMMARY

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

TRANSPORTATION / HOISTING / PLACEMENT CHARGES

AREA	TRANSPORTATION F.O.B. Origin/ F.O.B. Destination	HOISTING	PLACEMENT	TOTAL
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

ITEM	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					
1B	HDT IFITL Bay e/w 7 OCS RDSC Code RM6506007	8				
	-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 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					

6' x 24' CONTROLLED ENVIRONMENT VAULT

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)	1				
	BASIC STRUCTURE					
3A	Oldcastle 6' X 24' CEV	1				
3B	Capital Concrete 6' x 24' CEV	1				
	DISTRIBUTING FRAME					
4	800 Frame	5				
	100 Pr. Cross Connect Block	27			I	
	DS-1 CROSS CONNECT					
5	DIXI-84 DS-1 DSX Panels	2				
6	800 Frame	2				
	56 Pr. Cross Connect Block	8			L	
	MULTIPLEXER					
7A	FLM-150 Multiplexer System	2				
7B	DDM-2000 Multiplexer System	2				
	LGX / FIBER MGMT.					
8	Feeder 24F LGX (108319849)	1				
9	Dist. 144F LGX (108349390)	5				
10	CEV Fiber Management System	1				

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	1				
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	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	1				
	307C2-100 Protection Block	14				

Scope of Turnkey Installation

- 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 timbers.
- 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 regions.
- 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.

- 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 Built" of the site installed.

1A

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	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
1.6	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 PID: 665960820		1
2.2	DDM-2000 2C Fan Unit		1
3.0	**DIXI Panel KIT: CABDIXIPANEL**	JC0402L12C	1
3.1	DIXI Panel PID: 410070149		1
4.0	**900 Type DSX**	JC0402L61, L69	1
	KIT: CAB900DSXM6KIT PID: 409970142		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 6 Documentation consists of:**		
7.1	MESA 6 Description & Install. Practice	640-250-612C	1
8.0	**6V-100AH 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

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 6
To: Wesley Elstrom | From: Gray
Co. | Co.
Dept. | Phone #
Fax # | Fax #

ROSC Code		MESA 6 REMOTE TERMINAL CABINET EQUIPPED WITH THREE (3) DISC-6 COMMON SHELVES; ONE (1) DDM 2000 MUX SHELF; (6) STS 3192 REPEATER SHELVES, (1) DSU PANEL, AND WIRED FOR (21) COPPER CHANNEL SHELVES.					Marconi Total Price	BellSouth Total Price
Base Model	Sub-Model							
XPID Number		Qty.	Product Description	Product Code	Item Designator	PID NO.	Sub -Price	
XR6062000	6000	1	Base Model Hardware	•				
X0005378		0	RDT (Copper) RT Channel Shelf	JCO402L15				
		6	HDT (FITL) RT Channel Shelf	JCO402L14				
		2	(8) 6V-160AH Batteries	JCO406L32	RM62000006H	759970510		
		1	Base Model Plug-Ins	•				
		2	Modular Rectifier	41-399-39				
		0	Ringing Generator Module SFT 7	467110900				
		1	Adapter Null Modem	41-099-46				
		2	LIU Test Connector	41-099-39	RM62000006P	739970507		
		1	Other Vendors Equipment	•	CAB000D60M6KIT	409970142		
		1		•	CABDDXIPANEL	410970149		
		1		•	CABDDMKIT	865950820		
		•	BellSouth Total	•				
XR6062000	6000	1	Base Model Hardware	•				
X0005177		3	RDT (Copper) RT Channel Shelf	JCO402L15				
		0	HDT (FITL) RT Channel Shelf	JCO402L14				
		2	(8) 6V-160AH Batteries	JCO406L32	RM62000300H	399943618		
		1	Base Model Plug-Ins	•				
		2	Modular Rectifier	41-399-39				
		2	Ringing Generator Module SFT 7	467110900				
		1	Adapter Null Modem	41-099-46				
		2	LIU Test Connector	41-099-39	RM62000300P	411843624		
		1	Other Vendors Equipment	•	CAB000D60M6KIT	409970142		
		1			CABDDXIPANEL	410970149		
		1			CABDDMKIT	865950820		
		•	BellSouth Total	•				

ATTACHMENT
(Five Pages)
PROPRIETARY

Price Details

ED6C736-30 G-6

Contract No: Item 1 of 1
Description:
DOUBLE SIDED COMM DISTRIBUTING FRA*

Price Type	Unit Price	Price Multiple / Unit of Measure	Qty Break
Net Price (D)	[redacted]	[redacted]	[redacted] N/A

Delivery Interval: N/A
Order Multiple Qty: N/A
Merchandise Class: 32221

Notes:

Add to my saved product list: Please Select

View product list: Please Select

Create new product list: _____

Help on this activity Return to price query

BOTTOM NAVBAR

ADD 10% TO BASIC FRAME COST TO COVER MISC. ASSOCIATED HARDWARE SUCH AS WIRE RINGS, DESIGNATION BOARDS, ETC.

BellSouth Central Office Driver Pricing

No.	Item	Engineering First	Engineering Ea. Add	Install First	Install Ea. Add
	Assemble and Mount Bay or Cabinet				
2	Install Shelf or Unit in Bay				
3	Misc. Fuse Termination - max length 30'				
	Office and Local Alarms				
	Remote Alarms - X.25, TBOS, Discrete and Broadband				
6	Alarm Acceptance and Testing				
	Miscellaneous Leads (Run/Connect) - max length 125 ft.				
8	Multiple Miscellaneous Leads (Run/Connect)				
9	Fiber Jumpers (Include Connectors One Pair (Xmt/Rcv) Pair) - max length 125 ft.				
10	Fiber Cross-Connect Jumpers ((Xmt/Rcv) Pair) - max length 30 ft.				
11	Fiber Duct added to existing line-up				
12	DS3/STS-1 (Ntwk Element to DSX-3) 1 ckts - max length 100ft.				
13	DS3/STS-1 (Ntwk Element to DSX-3) 6 ckts. - max length 100 ft.				
14	DS3/STS-1 (Ntwk Element to DSX-3) 12 ckts. - max length 100 ft.				
15	FUTURE - DS3/STS-1 (Ntwk Element to DSX-3) 24 ckts.				
16	DS1/VT1.5 (Ntwk Element to DSX-1 Non-Connectorized) 28 ckts - max length 100 ft.				
17	Connectorized DS1/VT1.5 (Ntwk Element to DSX-1) 28 ckts - max length 100 ft.				
18	Connectorized DS1/VT1.5 (Ntwk Element to DSX-1) (Non-Amph, Non-710 Conn.) 28 ckts - max length 100				
19	DS0 (Ntwk Element to DP 25 Pair Connectorized) - max length 200 ft.				
20	DS0 (Ntwk Element to DP 100 Pair Connectorized) - max length 200 ft.				
21	Plugs and Circuit Packs - Handle, Warehouse, Deliver, verify				
22	Modules / Straps / Hardware Warehouse, deliver, handle, verify				
23	Power Per Load (BDFB) 1 - 15 amps - max length 100 ft.				
24	Power Per Load (BDFB) 16 - 30 amps - max length 100 ft.				
25	Power Per Load (BDFB) 31 - 45 amps - max length 100 ft.				
26	Power Per Load - inter bay power - max length 125 ft.				
27	Power Per Load (Connectorized Power Cable Assemblies) - max length 30 ft.				
[illegible]	Timing Cable Per Pair - max length 200 ft.				
	Multiple Cable Within Same Bay				
	Fuse Panel (Mat'l only)				
31	Furnish Bay (All Types)(Mat'l only)				
32	Cabinets (Mat'l only)				
33	Terminal Strips and Wiring Blocks				
34	Seismic bay (Mat'l only)				
35	100 Foot stub				
36	200 Foot stub				
37	300 Foot stub				
38	600 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 Instl. costs				
43	Open and close cable hole				
44	300 and 400 type blocks - ([illegible]) material difference from 50 type				
45	Excessive cable lengths - DS0, DS1 and DS3 - max length in 200 ft. increments				
46	OEM provided cable assembly cost for intra bay cabling - installation costs only				
47	OEM provided cable assembly cost for inter bay cabling - installation costs only				
48	DS0 (Ntwk Element to DP 25 Pair Non-Connectorized both ends) - max length 200 ft.				
49	DS0 (Ntwk Element to DP 100 Pair Non-Connectorized both ends) - max length 200 ft.				

From Dave Wiedieme Supply Chain Mgmt 2/9/00
All prices shown are current.
Use Pr... for prices from CTE S...

QTY	Driver #	Installation Activity	ENGINEERING			INSTALLATION			MATERI.	
			FIRST	EA ADD.	Total	FIRST	EA ADD	Total	EACH	T
1	1	Assemble and Mount Bay/Cabinet								
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	31	Furnish Bay (All Types)(Mat'l only)	-	-						
42	33	Terminal Strips/Wiring Blocks	-	-						
14	42	1 hour of installation; 3 - 89 type blocks per/hour	-	-						
		TOTALS		**ENG:**			**INST:**		**MAT:**	
		Grand Total =	**$30,929**							

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

27	49	DS0 wire-wrap both ends; 100 pair	91	23	689	289	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.

It covers 89 type blocks, physical installation, engineering, and DS0 cabling between the 89 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 cabling 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 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/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 DS0 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

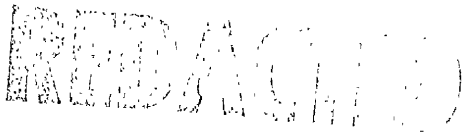
ATTACHMENT ONE
(One Page)
PROPRIETARY

A B C D E

1	Assemble and Mount Bay or Cabinet
2	Install Shelf or Unit in Bay
3	Misc. Fuse termination - max length 30'
	Office and Local Alarms
	Remote Alarms - X.25, TBOS, Discrete and Broadband
6	Alarm Acceptance and Testing
7	Miscellaneous Leads (Run/Connect) - max length 125 ft.
8	Multiple Miscellaneous Leads (Run/Connect)
9	Fiber Jumpers (Include Connectors One Pair (Xmt/Rcv) Pair) - max length 125 ft.
10	Fiber Cross-Connect Jumpers ((Xmt/Rcv) Pair) - max length 30 ft.
11	Fiber Duct added to existing line-up
12	DS3/STS-1 (Ntwk Element to DSX-3) 1 ckts - max length 150ft.
13	DS3/STS-1 (Ntwk Element to DSX-3) 6 ckts. - max length 150 ft.
14	DS3/STS-1 (Ntwk Element to DSX-3) 12 ckts. - max length 150 ft.
15	FUTURE - DS3/STS-1 (Ntwk Element to DSX-3) 24 ckts.
16	DS1/VT1.5 (Ntwk Element to DSX-1 Non-Connectorized) 28 ckts - max length 150 ft.
17	Connectorized DS1/VT1.5 (ntwk Element to DSX-1) 28 ckts - max length 150 ft.
18	Connectorized DS1/VT1.5 (Ntwk Element to DSX-1) (Non-Amph, Non-710 Conn.) 28 ckts - max length 150
19	DSO (Ntwk Element to DF 25 Pair Connectorized) - max length 200 ft.
20	DSO (Ntwk Element to DF 100 Pair Connectorized) - max length 200 ft.
21	Plugs and Circuit Packs - Handle, Warehouse, Deliver, verify
22	Modules / Straps / Hardware Warehouse, deliver, handle, verify
23	Power Per Load (BDFB) 1 - 15 amps - max length 150 ft.
24	Power Per Load (BDFB) 16 - 30 amps - max length 150 ft.
25	Power Per Load (BDFB) 31 - 45 amps - max length 150 ft.
26	Power Per Load - Inter bay power - max length 125 ft.
27	Power Per Load (Connectorized Power Cable Assemblies) - max length 30 ft.
'8	Timing Cable Per Pair - max length 200 ft.
	Multiple Cable Within Same Bay
30	Fuse Panel (Mat'l only)
31	Furnish Bay (All Types)(Mat'l only)
32	Cabinets (Mat'l only)
33	Terminal Strips and Wiring Blocks
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 Instl. costs
43	Open and close cable hole
44	300 and 400 type blocks - (305, 310, 400) material difference from 89 type
45	Excessive cable lengths - DS0, DS1 and DS3 - max length in 200 ft. increments
46	OEM provided cable assembly cost for intra bay cabling - installation costs only
47	OEM provided cable assembly cost for inter bay cabling - installation costs only
48	DSO (Ntwk Element to DF 25 Pair Non-Connectorized both ends) - max length 200 ft.
49	DSO (Ntwk Element to DF 100 Pair Non-Connectorized both ends) - max length 200 ft.

[illegible] Supply Chain Mgmt 2/9/00
[illegible]
[illegible] GTE [illegible]

ATTACHMENT TWO
(One Page) ·
PROPRIETARY



BellSouth Telecommunications, Inc — LINE SHARING SPLITTER - In the Central Office and in the Remote Terminal — INPUT _ Recur — Study Date 02/2001

	A	B	C	D	E	F
1	Florida					
2	Inputs for Recurring Costs					
3	Study Period: 01/2000 - 12/2002					
4	FL					
5						
6		Item / Description			Source	Amount
7	Element	Description	FRC	Sub FRC		
8						
9	J.4	LINE SHARING SPLITTER - In the Central Office and in the Remote Terminal				
10						
11	J.4.1	Line Sharing Splitter - per Splitter System 96 Line Capacity in the Central Office				
12		Distributing Frame	377C	06	MDF Fundamentals (GARY GRACE)	
13		Material Price			MDF Fundamentals	
14		Projected Actual Utilization			Network Planning & Support	
15		Circuit Capacity			Network Planning & Support	
16		Number Required (3 terms on MDF / Line)				
17		Connecting Blocks	377C	06	MDF Fundamentals (GARY GRACE)	
18		Material Price			MDF Fundamentals	
19		Projected Actual Utilization			Network Planning & Support	
20		System Capacity			Network Planning & Support	
21		Number Required				
22		Line Sharing Splitter (Bay)	257C	03	(Bill McAllister - CCM)	
23		Material Price			Network Planning & Support	
24		Projected Actual Utilization			Network Planning & Support	
25		System Capacity			Network Planning & Support	
26		Number Required				
27		Line Sharing Splitter (Shelf, Test Eqpt, Plug-ins & Cabling)	257C	16	Slecor Splitter Test Access Shelf Bay Shelf (2x$20) Connectorized Cable	
28		Material Price per System				
29		Projected Actual Utilization				
30		System Capacity				
31		Number Required				
32						
33	J.4.2	Line Sharing Splitter - per Splitter System 24 Line Capacity in the Central Office				
34		Distributing Frame	377C	06	MDF Fundamentals (GARY GRACE)	
35		Material Price			MDF Fundamentals	
36		Projected Actual Utilization			Network Planning & Support	
37		Circuit Capacity			Network Planning & Support	
38		Number Required (3 terms on MDF / Line)				
39		Connecting Blocks	377C	06	MDF Fundamentals (GARY GRACE)	
40		Material Price			MDF Fundamentals	
41		Projected Actual Utilization			Network Planning & Support	
42		System Capacity			Network Planning & Support	
43		Number Required				
44		Line Sharing Splitter (Bay)	257C	03	(Bill McAllister - CCM)	
45		Material Price			Network Planning & Support	
46		Projected Actual Utilization			Network Planning & Support	
47		System Capacity			Network Planning & Support	
48		Number Required				
49		Line Sharing Splitter (Shelf, Test Eqpt, Plug-ins & Cabling)	257C	16	Slecor Splitter Test Access Shelf Bay Shelf (2x$20) Connectorized Cable	
50		Material Price per System				
51		Projected Actual Utilization				
52		System Capacity				
53		Number Required				
54						
55						
56						
57						
58						
59						
60						

ATTACHMENT ONE
(16 Pages)
PROPRIETARY

Entire Doc

ATTACHMENT FOUR
(48 Pages)
PROPRIETARY

BELLSOUTH TELECOMMUNICATIONS, INC.

FPSC DKT NO. 001797-TP

COVAD'S FIRST REQUEST FOR PRODUCTION OF DOCUMENTS

POD NO. 33

PROPRIETARY

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

Karen C. Hill 615-646-7449
575 8288

The information provided below, including the price, is generic in nature. It does not provide any information specific to a particular site. 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 square 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, etc. 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/Hut 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) Earth Work and Excavation (Digging the trench)
5) Compaction (Compacting the dirt placed back in the trench)
6) Asphalt (New parking lot paving)
7) Electrical
8) Painting Allowance (Re-stripping the parking lot)

— Plot 2x
— Permits —
— what's contingency for
— what power is being provided.

Basically, the pricing would break down as follows:

Electrical Work:	17,250.00	(Item Number 7 above)
Other Work:	9,750.00	(All items except Number 7)
Permitting:	1,000.00	
Architectural/engineering/project management:	9,000.00	
TOTAL:	37,000.00	
Contingency:	2,500.00	
GRAND TOTAL:	39,500.00	

Conversion to cost per linear foot $39,500/150 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.

Matl	Source	Cost	
Physical Collocation - 2 Fiber (Singlemode) 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		
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 Cable			
Material Price per foot ($1,114.02	Network Planning & Support		
Number Feet	Network Planning & Support		Note 3
2 Fiber Circuit capacity per Cable	Network Planning & Support		
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			
Material Price	Network Planning & Support		
Circuit Capacity	Network Planning & Support		
Projected Actual Utilization			
POT Bay Shelf e/w locks			
Shelf	Network Planning & Support		
Coupler Panel (4)	Network Planning & Support		
SC Coupling (24)	Network Planning & Support		
Total Material Price	Network Planning & Support		
Circuit Capacity	Network Planning & Support		
Projected Actual Utilization			

Note 1: 5 " Cable rack material cost
ED4C685-72 G-1 (rack)
G-10 (horns)
G-66 (support detail)
G-106 (threaded rod)

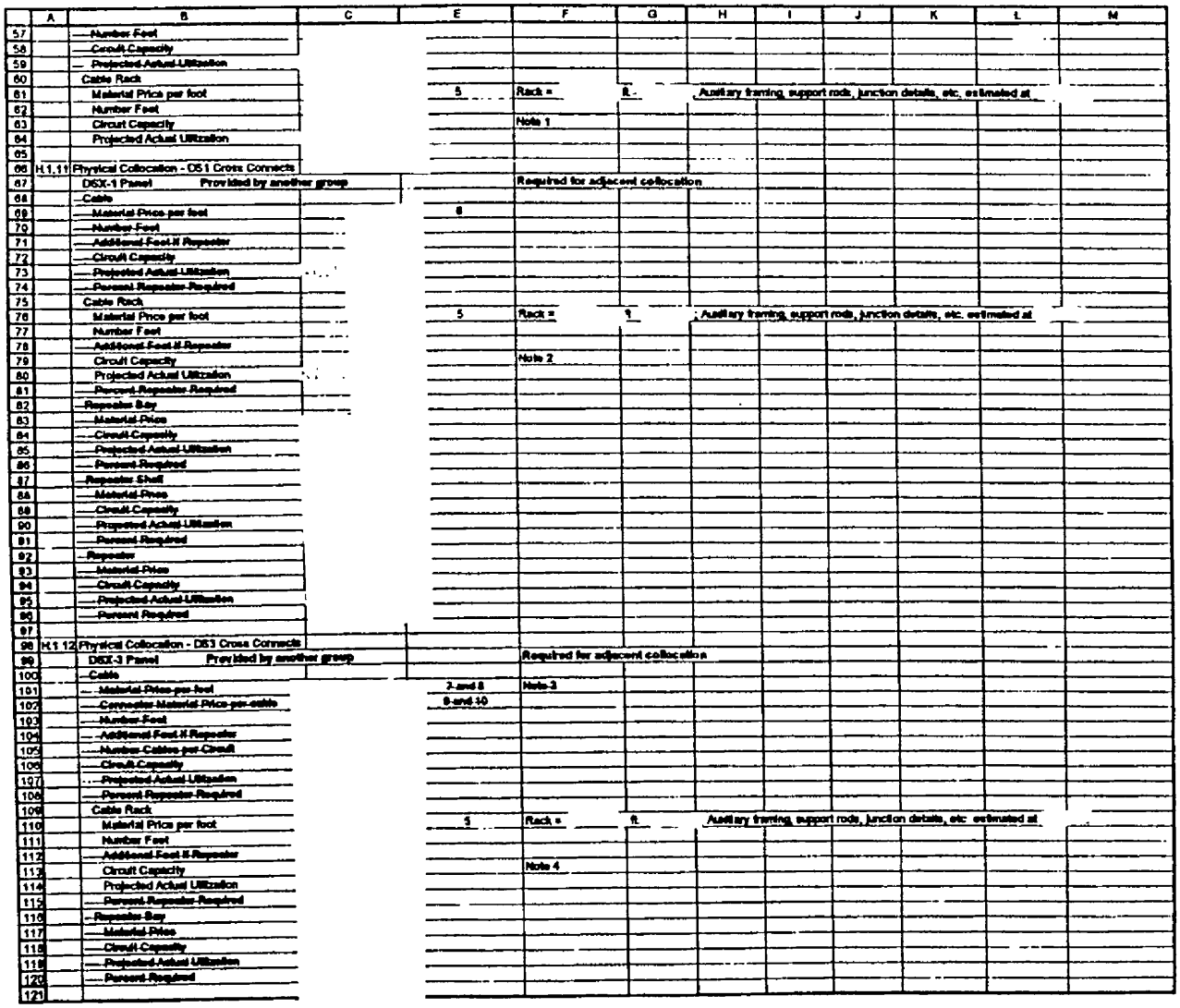
Note 2: Assume 24 fiber LGBC OD=
Assume cable pileup to max of 5"
Max cables =
Circuit Cap =

Note 3: Fiber Duct Components/60ft run
10 - 4x4 Straight Duct 6'
2 - 4x4 Elbow
10 - 4x4 Splice
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)

6

	A	B	C	E	F	G	H	I	J	K	L	M
1		Adjacent Collocation - Input for DS0, DS1 and DS3 copper cross-connection recurring charge 11/30/99 TEW @ 205-977-8445										
2												
3												
4	Cost	COLLOCATION										
5	#		Inputs	Attachment Ref #	Supporting Info							
6												
7	H.1.7	Physical Collocation - Cable Support Structure, Per Entrance Cable										
8		Investment per Foot		1								
9		Cable Capacity			Note:3							
10		Projected Actual Utilization										
11		Average Cable Length										
12												
13	H.1.8	Physical Collocation - Power, Per Ampere										
14		Monthly Power Usage										
15		Average Monthly Cost per KWH			= $.07/month x 48 watts x 24hrs/day x 30days/mo x 1/.85 rect-eff x .0006 sq feet							
16		Watts			= $1.8073/Mo							
17		Rectifier Efficiency			The above formula has been modified to include a factor of .00006							
18					This factor is required to calculate commercial power consumption based upon the rating of the DC protection device							
19												
20												
21												
22	H.1.9	Physical Collocation - 2-Wire Cross Connects										
23		Trunk Distributing Frame										
24		Material Price		2								
25		Circuit Capacity										
26		Projected Actual Utilization										
27		Number Required										
28		Connecting Block										
29		Material Price		3								
30		Circuit Capacity										
31		Projected Actual Utilization										
32		Number Required										
33		Cable										
34		Material Price per foot		4								
35		Number Feet										
36		Circuit Capacity										
37		Projected Actual Utilization										
38		Cable Rack										
39		Material Price per foot		5								
40		Number Feet										
41		Circuit Capacity			Note:1							
42		Projected Actual Utilization										
43												
44	H.1.10	Physical Collocation - 4-Wire Cross Connects										
45		Trunk Distributing Frame										
46		Material Price		2								
47		Circuit Capacity										
48		Projected Actual Utilization										
49		Number Required										
50		Connecting Block										
51		Material Price		3								
52		Circuit Capacity										
53		Projected Actual Utilization										
54		Number Required										
55		Cable										
56		Material Price per foot		4								



	A	B	C	E	F	G	H	I	J	K	L	M
57		Number Feet										
58		Circuit Capacity										
59		Projected Actual Utilization										
60		Cable Rack										
61		Material Price per foot		5	Rack =	ft	Auxiliary framing, support rods, junction details, etc. estimated at					
62		Number Feet										
63		Circuit Capacity			Note 1							
64		Projected Actual Utilization										
65												
66	H.1.11	Physical Collocation - DS1 Cross Connects										
67		DSX-1 Panel Provided by another group			Required for adjacent collocation							
68		Cable										
69		Material Price per foot		8								
70		Number Feet										
71		Additional Feet if Repeater										
72		Circuit Capacity										
73		Projected Actual Utilization										
74		Percent Repeater Required										
75		Cable Rack										
76		Material Price per foot		5	Rack =	ft	Auxiliary framing, support rods, junction details, etc. estimated at					
77		Number Feet										
78		Additional Feet if Repeater										
79		Circuit Capacity			Note 2							
80		Projected Actual Utilization										
81		Percent Repeater Required										
82		Repeater Bay										
83		Material Price										
84		Circuit Capacity										
85		Projected Actual Utilization										
86		Percent Required										
87		Repeater Shelf										
88		Material Price										
89		Circuit Capacity										
90		Projected Actual Utilization										
91		Percent Required										
92		Repeater										
93		Material Price										
94		Circuit Capacity										
95		Projected Actual Utilization										
96		Percent Required										
97												
98	H.1.12	Physical Collocation - DS3 Cross Connects										
99		DSX-3 Panel Provided by another group			Required for adjacent collocation							
100		Cable										
101		Material Price per foot		7 and 8	Note 3							
102		Connector Material Price per cable		8 and 10								
103		Number Feet										
104		Additional Feet if Repeater										
105		Number Cables per Circuit										
106		Circuit Capacity										
107		Projected Actual Utilization										
108		Percent Repeater Required										
109		Cable Rack										
110		Material Price per foot		5	Rack =	ft	Auxiliary framing, support rods, junction details, etc. estimated at					
111		Number Feet										
112		Additional Feet if Repeater										
113		Circuit Capacity			Note 4							
114		Projected Actual Utilization										
115		Percent Repeater Required										
116		Repeater Bay										
117		Material Price										
118		Circuit Capacity										
119		Projected Actual Utilization										
120		Percent Required										
121												

	A	B	C	E	F	G	H	I	J	K	L	M
182												
183		Note 1: Assume 26Ga 100 Pr 806A cable OD=0 56"										
184		2' 6" Cable rack with max 10"pileup										
185		Capacity = 30/ 56 x 10/0 56 = 54 x 18 = 972 cables										
186		2wire Circuits = 972 x 100 = 97,200										
187		4wire circuits = 972 x 100/2 = 48600										
188												
189		Note 2: Assume 22Ga 616C 28 pair Cable OD = 0 64"										
190		2' 6" Cable rack with max 10"pileup										
191		Capacity = 30/ 64 x 10/ 64 = 47 x 15 = 752 cables										
192		DS1 Circuits = 752 x 14 = 10,528										
193												
194		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' require repeaters 90% less than 455'										
195		Cables between 100 and 250 = 150/355 =42 3%. Cables between 250 and 456' = 205/355 = 57.7%										
196		735A cable utilization = 423 x 90% = 38%										
197		734D cable utilization = 100% - 38% = 62%										
198		734D = $ 550/ft 735A = $ 388/ft										
199		$/ft=(550)x(62)+(388)(38)= $ 488/ft										
200												
201		Note 4: from note 3, 38% of DS3 cable is 735A, 62% is 734D										
202		735A OD = 122" , 734D OD = 0 236"										
203		735A cross section = 122 x 122 = .0148 sq. in.										
204		734D cross section = .236 x 236 = 0557 sq. in.										
205		Cabl rack cross section = 30" x 10" = 300 sq in										
206		Let X = total cables; 300 = (62)(X)(0557) + (38)(X)(0148)										
207		034534X + 005662X = 300										
208		040196X = 300										
209		X = 7463										
210		Capacity = 7463/2 = 3732										
211		735A cables = 38 (7463) = 2836										
212		734D cables = .62(7463) = 4627										
213		Assume this same mix for adjacent collocation										
214												
215												
216		~~Note 5: DSO POT Consists of following~~										
217		~~Qty - 1 universal 7' rack @~~										
218		~~Qty - 14 single mtg bars @~~										
219		~~Total POT Bay =~~										
220												
221		~~Conn. Blk. Mod per 25 2-wire ckts.~~										
222		~~Qty - 1 89B mtg bkts @~~										
223		~~Qty. 1 - 89A1 Conn blk @~~										
224		~~Qty 50 C bridging clips @~~										
225		~~Total DSO Conn Blk cost =~~										
226		~~Note 5 prices quoted from Allied Supply 11/5/98~~										
227												
228		~~Note 6. DS1 and DS3 POT Bay consists of:~~										
229		~~Qty. 1 ED-8C501-50 G1-7R Netwk Bay Frame @~~										
230		~~Qty. 1 - ED-8C157-21 G6 Interconnect Hardware @~~										
231		~~Total Bay cost =~~										
232												
233		Note 7: 5" cable rack - length 9' 8 5"										
234		Qty of 1 ED4C685-72 G1 @										
235		Qty of 1 ED4C685-72 G10 @										
236		Total = $										
237												

Price Details

Lucent Product ID: ED6C736-30 G-6
Contract No:
Description:
DOUBLE SIDED COMM DISTRIBUTING FRA

Item 1 of 1

Price Effective Date: 2/14/2000

Price Type	Unit Price	Price Multiple / Unit of Measure	Qty Break
Net Price (D)			N/A

Delivery Interval: N/A
Order Multiple Qty: N/A
Merchandise Class: 32221

Stocked: No
Source: Omaha, NE
Prod Weight: N/A

Notes:

Add to my saved product list: Please Select

View product list: Please Select

Create new product list:

Help on this activity Return to price query

BOTTOM NAVBAR

ADD 10% TO BASIC FRAME COST TO COVER MISC. ASSOCIATED HARDWARE SUCH AS WIRE RINGS, DESIGNATION BOARDS, ETC.

COLLOCATION KEY & CARD COSTS

Item		
I. Material costs - Key:		
Material Cost		[redacted]
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		
Total		
III. Access Device - Card and key issued per person		
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 costs:		
Annual contract Labor cost (3.5 people) **(year 2000)**		[redacted]
1-Siemens and 2.5 Strategic employees (Includes some overtime)		
Annual contract Labor cost (5.0 people) **(year 2001)**		
1-Siemens and 4 Strategic employees		
Annual Productive Contract Labor Hours per Person = 1960		
BST Headcount:		**Headcount**
JG58 (CURRENT)	[redacted]	**0.5**
JG56 (PROPOSED)		**1.0**

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

	A	B	C	D	E	F	G	I	J	K	L	M	N	O	P	Q
134	FL	H 1 13	Physical Collocation - 2-Wire POT Bay													
135			POT Bay													
136			Material Price						Note 5							
137			Circuit Capacity													
138			Projected Actual Utilization													
139			Termination Block w/Bridging Clips													
140			Material Price						Note 5							
141			Circuit Capacity													
142			Projected Actual Utilization													
143																
144	FL	H 1 14	Physical Collocation - 4-Wire POT Bay													
145			POT Bay													
146			Material Price						Note 5							
147			Circuit Capacity													
148			Projected Actual Utilization													
149			Termination Block w/Bridging Clips													
150			Material Price						Note 5							
151			Circuit Capacity													
152			Projected Actual Utilization													
153																
154	FL	H 1 15	Physical Collocation - DS1 POT Bay						Note 6							
155			POT Bay													
156			Material Price					11 and 12								
157			Circuit Capacity													
158			Projected Actual Utilization													
159			POT Bay Shelf													
160			Material Price					13								
161			Circuit Capacity													
162			Projected Actual Utilization													
163			POT Bay Module													
164			Material Price					14								
165			Circuit Capacity													
166			Projected Actual Utilization													
167																
168	FL	H 1.16	Physical Collocation - DS3 POT Bay						Note 6							
169			POT Bay													
170			Material Price					11 and 12								
171			Circuit Capacity													
172			Projected Actual Utilization													
173			POT Bay Shelf													
174			Material Price					15								
175			Circuit Capacity													
176			Projected Actual Utilization													
177			POT Bay Module													
178			Material Price					16								
179			Circuit Capacity													
180			Projected Actual Utilization													
181																
182																

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Matl	Source	Cost	
Physical Collocation - 2 Fiber (Singlemode) Cross Connects			
LGX Bay			
Bay Fmk	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		
Projected Actual Utilization	Network Planning & Support		
LGX Shelf			(shelves will be fully eqp'd for 72 fiber terminations when initially installed
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 (2 fiber bldg cable)			
Material Price per foot ($33.3%100)	Network Planning & Support		
Number Feet	Network Planning & Support	_____	Note 4 Note - add total 15ft for drop ends - 345ft
Projected Actual Utilization	Network Planning & Support		
SC Plug Price (11.80 ea ; 4 per 2-fiber cable	Network Planning & Support	_____	Note 5
Sub total cable & SC plugs			
Factory assembly charge (estimated)		_____	
Total plug eqp'd 2 fiber cable			
Cable Rack 5" ED4C665 -72			Note 1
Material Price per foot	Network Planning & Support		
Number Feet	Network Planning & Support		Note 4
2 fiber Circuit Capacity	Network Planning & Support		Note 2
Projected Actual Utilization	Network Planning & Support		
Fiber Cable (4 fiber bldg cable)			
Material Price per foot ($55.96/100)	Network Planning & Support		
Number Feet	Network Planning & Support	_____	Note 4 Note - add total 15ft for drop ends - 345ft
Projected Actual Utilization	Network Planning & Support		
SC Plug Price (11.80 ea ; 4 per 4-fiber cable	Network Planning & Support	_____	Note 5
Sub total cable & SC plugs			
Factory assembly charge (estimated)		_____	
Total plug eqp'd 4 fiber cable			
Cable Rack 5" ED4C665 -72			Note 1
Material Price per foot	Network Planning & Support		
Number Feet	Network Planning & Support		Note 4
4 fiber Circuit Capacity	Network Planning & Support		Note 2
Projected Actual Utilization	Network Planning & Support		
Physical Collocation - Fiber POT Bay			
POT Bay			
Material Price	Network Planning & Support		
Circuit Capacity	Network Planning & Support		
Projected Actual Utilization			
POT Bay Shelf e/w locks			
Shelf (12 ckt, 24 fiber cpacity)	Network Planning & Support		POT bay shelves will be eqp'd with coupler panels and couplers as req'd based upon service re
Coupler Panel (1 per 6 fibers, 4 max)	Network Planning & Support		One coupler panel is required to terminate a 6 fiber cable
SC Coupling (1 per fiber, 24 max)	Network Planning & Support		Six couplers are required per 6 fiber cable
Projected Actual Utilization			
Ex. ace fiber cable storage shelf	Network Planning & Support		assume 1 per 24 2-fiber ckts, occupies one of max 12 POT shelf positions in POT bay
Direct Interconnection Cable Support			
(data provided for computation of cable support cost/linear foot, billing should be based upon installed cable circuit capacity not circuits placed in service)			
DS0			
Cable Rack			
Material Price per foot	Network Planning & Support		
Circuit Capacity	Network Planning & Support		
Projected Actual Utilization		use DS0 xconn	
DS1			
Cable Rack			
Material Price per foot	Network Planning & Support		

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Circuit Capacity	Network Planning & Support	10528	
Projected Actual Utilizaton		use DS1 xconn	
DS3			
Cable Rack			
Material Price per foot	Network Planning & Support		
Circuit Capacity	Network Planning & Support		
Projected Actual Utilization		use DS3 xconn	
FIBER Cable Rack (5 inch)			
Material Price per foot	Network Planning & Support		
Circuit Capacity	Network Planning & Support		Updated to reflect 2 fiber bldg cable capacity
Projected Actual Utilizaton			
FIBER Duct			Note 3
Material Price per foot	Network Planning & Support		
Circuit Capacity	Network Planning & Support		
Projected Actual Utilization			

Note 1 5 " Cable rack material cost
ED4C665-72 G-1 (rack)
G-10 (horns)
G-66 (support detail)
G-106 (threaded rod)

Note 2
For 2 fiber LGBC OD = 19"
Assume cable pileup to max of 5"
Max cables = 5/.18 X 5/.18 = 771
2 Fiber circuit cap = 771 X 1 = 771

For 4 fiber LGBC OD = 185"
Assume cable pileup to max of 5"
Max cables = 5/.185 X 5/.185 = 730
4 Fiber circuit cap = 730 X 1 = 730

Note 3: 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
Assumes 3mm patchcords, 2/ckt

Note 4. Cable length changed to 300 ft.
plus 15ft for avg (7.5 ft drop on both ends)

Note 5 Each fiber within a cable must be
equipped with an SC plug on each end of the
fiber. Assume a 24 fiber cable will be
equipped with 48 connectors a 6 fiber cable
will be equipped with 12 connectors etc

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6' x 24' CONTROLLED ENVIRONMENT VAULT

ITEM	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					
1B	HDT IFITL Bay e/w 7 OCS RDSC Code RM6506007	8				
	-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 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 IFITL Bay)	9				
	9 DISCHS HDT BAYS TOTAL					

6' x 24' CONTROLLED ENVIRONMENT VAULT

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)	1				
	BASIC STRUCTURE					
3A	Oldcastle 6' X 24' CEV	1				
3B	Capital Concrete 6' x 24' CEV	1				
	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	8				
	MULTIPLEXER					
7A	FLM-150 Multiplexer System	2				
7B	DDM-2000 Multiplexer System	2				
	LGX / FIBER MGMT.					
8	Feeder 24F LGX (108319849)	1				
9	Dist. 144F LGX (108349390)	5				
10	CEV Fiber Management System	1				

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	1				
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	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	1				
	307C2-100 Protection Block	14				

PKUPKIETAKT

Outside BellSouth

1A

Ordering Guide
June, 1999

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	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
1.6	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 PID: 665950820		1
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
	KIT: CAB900DSXM6KIT PID: 409970142		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 6 Documentation consists of:**		
7.1	MESA 6 Description & Install. Practice	640-250-612C	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

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 6

Marconi Communications

To Wally Olson	From GRAY
Co.	Co.
Dept.	Phone #
Fax # 404-529-5469	Fax #

Contains

4

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RDSC Code		MESA 6 REMOTE TERMINAL CABINET EQUIPPED WITH THREE (3) DISC★S COMMON SHELVES; ONE (1) DDM 2000 MUX SHELF; (0) STS 3192 REPEATER SHELVES, (1) DIXI PANEL, AND WIRED FOR (21) COPPER CHANNEL SHELVES.						
Base Model	Sub-Model						Marconi Total Price	BellSouth Total Price
XPID Number		Qty.	Product Description	Product Code	Item Designator	PID NO.	Sub -Price	
XR862000	0000	1	Base Model Hardware	*				
X0005378		0	RDT (Copper) RT Channel Shelf	JCO402L15				
		0	HDT (FITL) RT Channel Shelf	JCO402L14				
		2	(8) 6V-160AH Batteries	JCO402L32	RM62000000H	759970510		
		1	Base Model Plug-Ins	*				
		2	Modular Rectifier	41-308-39				
		0	Ringing Generator Module SFT 7	487110900				
		1	Adapter Null Modem	41-006-46				
		2	LIU Test Connector	41-006-39	RM62000000P	739970507		
		1	Other Vendors Equipment	*	CAB900DSXM6KIT	409970142		
		1		*	CABDIXIPANEL	410970149		
		1		*	CABDDMKIT	665950620		
		*	**BellSouth Total**	*				
XR862000	0300	1	Base Model Hardware	*				
X0005177		3	RDT (Copper) RT Channel Shelf	JCO402L15				
		0	HDT (FITL) RT Channel Shelf	JCO402L14				
		2	(8) 6V-160AH Batteries	JCO402L32	RM62000300H	368943618		
		1	Base Model Plug-Ins	*				
		2	Modular Rectifier	41-308-39				
		2	Ringing Generator Module SFT 7	487110900				
		1	Adapter Null Modem	41-006-46				
		2	LIU Test Connector	41-006-39	RM62000300P	411943624		
		1	Other Vendors Equipment	*	CAB900DSXM6KIT	409970142		
		1			CABDIXIPANEL	410970149		
		1			CABDDMKIT	665950620		
		*	**BellSouth Total**	*				

H.1.6

Yr	ST	GLC	Location	Sq. Ft.	Cost	City Cost Index	National Cost	Comments
			ALABAMA					
99	AL	11616	Cahaba Heights - CO Addition	10300	$1,780,000	0.871	$2,043,628	
00	AL	11734	Hanceville - CO Addition	2000	$370,000	0.871	$424,799	
99	AL	11831	Huntsville Madison - CO Addition	3800	$730,000	0.827	$882,709	
00	AL	11813	Huntsville University CO Addition	6000	$1,300,000	0.827	$1,571,947	
99	AL	12340	Mobile Bay Front - CO Addition	1136	$445,000	0 834	$533,573	
			TOTAL	23236	$4.625.000		$5,456,656	
			National Avg Cost/sq.ft.:	$234.84				
			Alabama Avg. Cost Index:	0.8252				
			Investment/sq ft.:	$193.79				
			AVG. COST /SQ. FT.:	$199.04				
			Florida					
99	FL	31536	Chipley - CO Addition	2800	$561,000	0.796	$704,774	
00	FL	32273	Gainesville NW - CO 2nd Floor Add	4000	$1,600,000	0.841	$1,902,497	
00	FL	M9506	Golden Glades CO Addition	10500	$5,100,000	0.866	$5,889,145	
00	FL	31241	Jacksonville Beachwood - CO Addn	1792	$1,400,000	0.841	$1,664,685	
00	FL	36280	Lake Mary CO Addition	3100	$1,725,000	0.861	$2,003,484	
00	FL	31040	Mandarin - CO Addition	6148	$1,450,000	0.841	$1,724,136	
00	FL	31648	Oviedo - CO Addition	2560	$1,255,000	0 861	$1,457,607	
00	FL	E9660	Port St. Lucie CO Addition	3200	$2,175,000	0.883	$2,463,194	
99	FL	E8636	Royal Palms - CO Addition	5308	$136,000	0 869	$156,502	
99	FL	E8636	Vero Beach - CO Addition	3158	$1,350,000	0.883	$1,528,879	
00	FL	E8519	WPBH Gardens - CO 2nd Floor Add	20754	$8,601,000	0.869	$9,897,583	
			TOTAL	63320	$25.353.000		$29,392,489	
			National Avg Cost/sq.ft.:	$464.19				
			Florida Avg. Cost Index:	0.8413				
			Investment/sq ft.:	$390.52				
			AVG. COST /SQ. FT.:	$400.39				
			Georgia					
00	GA	F5602	Buford, 2000	5966	$1,728,000	0.884	$1,954,751	Bids in, ready to start const.
00	GA	R3930	Villa Rica,2000	4075	$2.125.000	0.884	$2,403,846	Under construction
00	GA	F1440	Fayetteville - CO Addition, 2000	9600	$3,781,000	0.884	$4,277,149	Under construction
00	GA	F1437	Peachtree City CO Addition, 2000	9600	$2,024,000	0.884	$2,289,593	Bids in, ready to start const.
00	GA	F1356	Powder Springs - CO Addition, 2000	4275	$1,310,000	0.884	$1,481,900	Bids in, ready to start const
99	GA	F5352	Powers Ferry, 1999&2000	26870	$5,350,000	0.884	$6,052,036	Under construction
99	GA	R3907	Tallapoosa - CO Addition, 1999	987	$288,000	0.884	$325,792	Completed, Actual Costs
99	GA	R2164	Gay - CO Addition, 1999	567	$195,000	0.884	$220,588	Completed, Actual Costs
98	GA		Norcross CO, 1998	17880	$1,955,485	0.884	$2,212,087	Completed, Actual Costs
98	GA		Woodstock CO, 1998	6400	$1,897,000	0.884	$2,145,928	Completed, Actual Costs
98	GA		Dunwoody CO, 1998	16390	$3,003,520	0.884	$3,397,647	Completed, Actual Costs
			TOTAL	102710	$23.657.005		$26,761,318	
			National Avg Cost/sq.ft.:	$260.55		Including Planning data		
			Georgia Avg. Cost Index:	0.813		Including Planning data		
			Investment/sq.ft.:	$211.83				
			AVG. COST /SQ. FT.:	$230.33				
			Kentucky					
99	KY	52470	Garden Village - CO Addition	448	$166,000	0.854	$194,379	
99	KY	52724	S Williamson - CO Addition	384	$181,000	0 854	$211,944	
				832	$347,000		$406,323	
			National Avg Cost/sq.ft.:	$488.37				
			Kentucky Avg. Cost Index:	0.8895				
			Investment/sq.ft.:	$434.40				
			AVG. COST /SQ. FT.:	$417.07				
			Louisianna					
		K3266	Denham Springs CO - Addition & HVAC	1600	$340,000	0.828	$410,628	
		K4567	Shreveport College - Addition & HVAC	3200	$990,000	0 805	$1,229,814	
				4800	$1.330,000		$1,640,442	
			National Avg Cost/sq.ft.:	$341.76				
			Louisianna Avg. Cost Index:	0.8176				
			Investment/sq.ft.:	$279.42				
			AVG. COST /SQ. FT.:	$277.08				
			Mississippi					
00	MS	72126	Brandon CO Add (Jackson Ranton)	2500	$680,000	0.79	$860,759	
00	MS	75171	Tutwiler CO - Building Addition	1600	$560,000	0.768	$729,167	
				4100	$1,240,000		$1,589,926	
			National Avg Cost/sq.ft.:	$387.79				
			Mississippi Avg. Cost Index:	0.79				
			Investment/sq.ft.:	$306.35				
			AVG. COST /SQ. FT.:	$302.44				

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.

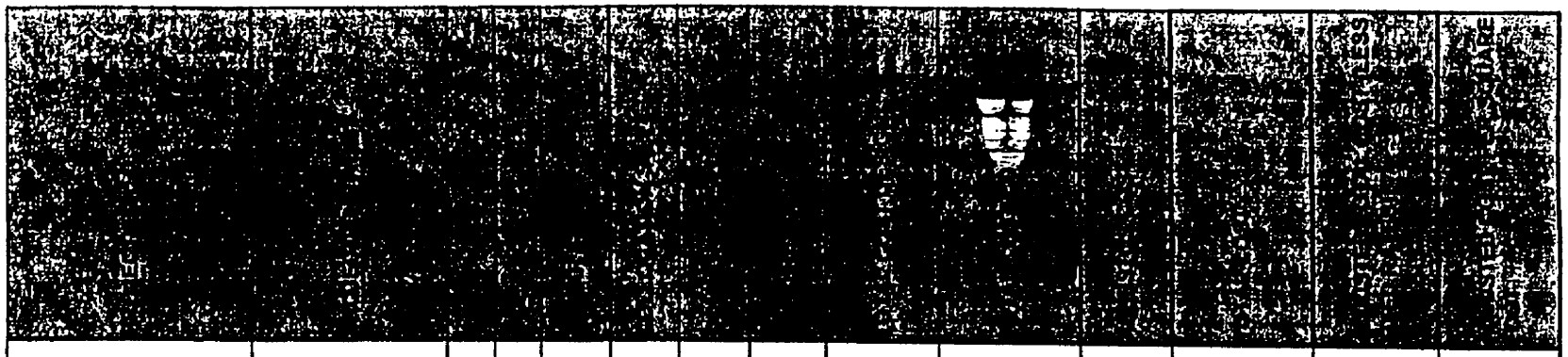
FL Collocation Flat Fee

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

FL Collocation Flat Fee

MIAMFLSO.NVE.01	734808-82051	1			115	130	0	$11,881	$25,310	$2,047	$39,238	$32,167	$247.44
MIAMFLSO.FIM.01	734808-81041	4		0	100	130	0	$27,504	$53,943	$0	$81,447	$53,163	$408.95
MIAMFLBR.NVE.01	734808-80181	2		0	400	520	0	$18,062	$94,171	$0	$112,233	$98,091	$188.64
PRRNFLMA.AKJ.07	734808-81741	1		0	100	690	0	$14,452	$135,674	$0	$150,126	$143,055	$207.33
MIAMFLFL.AKJ.02	734808-82201	1		0	100	130	0	$13,459	$14,480	$1,738	$29,677	$22,606	$173.89
MIAMFLBA.AKJ.04	734808-86081	1		0	100	130	0	$17,144	$15,585	$0	$32,729	$25,658	$197.37
MIAMFLAP.OVC.03	734808-81501	1			100	130	0	$13,323	$21,409	$2,076	$36,808	$29,737	$228.75
MIAMFLAP.AKJ.02	734808-81581	1			100	130	0	$11,550	$21,230	$0	$32,780	$25,709	$197.76
MIAMFLAP.ATX.01	734808-80281	1			400	1200	0	$31,177	$121,019	$0	$152,196	$145,125	$120.94
MIAMFLWD.AKJ.02	734808-81651	1			100	130	1	$17,015	$29,624	$0	$46,639	$25,331	$194.85
PRRNFLMA.NVE.03	734808-82021	1			100	130	0	$10,668	$25,154	$0	$35,822	$28,751	$221.16

FL Collocation Flat Fee



PRRNFLMA.ATX.01	734808-83271	1			400	520	0	$19,470	$86,020	$0	$105,490	$98,419	$189.27
MIAMFLBR.FIM.01	734808-80921	1			100	1680	1	$36,405	$142,162	$1,042	$179,609	$158,301	$94.23
MIAMFLBC.AKJ.02	734808-81731	1			100	1809	0	$22,725	$195,235	$0	$217,960	$210,889	$116.58
MIAMFLSO.AKJ.05	734808-81841	1			100	130	0	$12,906	$22,402	$0	$35,308	$28,237	$217.21
MIAMFLWM.FIM.03	734808-80631	1			100	305	0	$19,092	$20,712	$0	$39,804	$32,733	$107.32
MIAMFLWM.ACI.04	734808-81961	1			100	305	0	$19,344	$21,217	$0	$40,561	$33,490	$109.80
MIAMFLFL.FIM.02	734808-81641	1			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	$78,951	$0	$93,215	$85,814	$52.33
PMBHFLCS.OVC.03	732822-25111				100	130		$24,558	$38,614	$3,452	$66,624	$66,624	$512.49
PMBHFLFE.AKJ.03	734808-82221	1			100	130		$12,528	$42,730	$1,208	$56,466	$49,395	$379.96
PMBHFLMA.ATX.02	734808 81011	1			400	1,668		$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	$61,855	$54,784	$105.35
HLWDFLPE.AKJ.07	734808 86061	1			100	130		$18,685	$33,833	$0	$52,518	$45,447	$349.59
HLWDFLPE.OVC.04	732822-25101				100	130		$19,124	$27,412	$253	$46,789	$46,789	$359.91
											Average		**$198**

Collocation Space Preparation Standard ICB Rate Worksheet (Network Construction)
Issue 2 - 1/6/00

Driver Description	#	Vendor	First Unit Engrg Hrs	First Unit Labor Hrs	First Unit Minor Matl	First Unit Avg	Subsequent Units Engrg Hrs	Subsequent Units Labor Hrs	Subsequent Units Minor Matl	Subsequent Units Avg	Cageless Qty FU's	Cageless Qty SU's	Cageless Total $	Cageless $/Sq Ft.	Caged or Non-conventional Cageless Qty FU's	Caged or Non-conventional Cageless Qty SU's	Caged or Non-conventional Cageless Total $	Caged or Non-conventional Cageless $/Arrangement
Cable Rack - panned 15" (switchboard)	101	ADC																
		6R																
		Lucent																
			2.35	5.00			1.20	3.92										
Cable Rack - nonpanned 15" (power)	102	ADC																
		6R																
		Lucent																
			2.35	5.00			1.20	3.92										
Cross-aisle cable rack	104	ADC																
		6R																
		Lucent																
			1.70	2.67			1.20	2.33										
AC - main feed to bay	105	ADC																
		6R																
		Lucent																
			2.50	7.00			0.84	0.50										
Auxiliary Supports	107	ADC																
		6R																
		Lucent																
			1.97	3.97			0.83	3.60										
Stanchion	108	ADC																
		6R																
		Lucent																
			1.62	2.17			0.70	2.00										
Main Aisle Conduit	109	ADC																
		6R																
		Lucent																
			1.68	3.17			0.86	2.84										
Main Aisle Ground 2/0	110	ADC																
		6R																
		Lucent																
			2.00	4.67			1.17	3.92										
Light Fixture - double tube	114	ADC																
		6R																
		Lucent																
			1.67	5.00			0.75	3.33										
Cable hole establishment	115	ADC																
		6R																
		Lucent																
			4.00	3.26			1.36	3.26										
Fiber Duct (Use 50% of driver # 11)	11																	

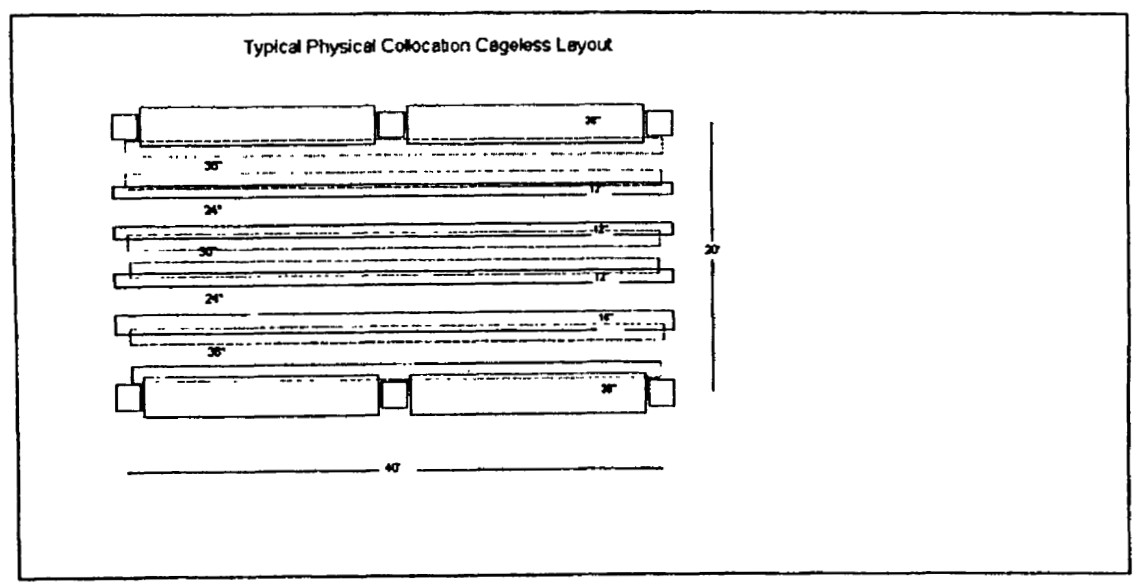
Cageless $/Sq. Ft.

Caged or Nonconventional Cageless $/Arrangement

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.



03

Region		
Total Power Plant Construction ($$$)	Total CLEC Dedicated Cable ($$$)	Total CLEC Requested DC Amps
$ 16,154,045	$ 506,867	$ 37,656
Power Construction $$$ / Amp		
Plant Only	Cable Only	Total
$ 429.00	$ 13.46	$ 442.46

÷ 1.5

286 fused

Used ≤ Rated Amps

$P = I \times E$

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 will 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 readers.	
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 and communications costs.	
Host can support 2,000 - 3000 units.	
Host costs spread over 2000 units	
No taxes included.	

MESSAGE
Subject: Cost Accounting Information for Collocation
Sender: Rusty M. Foster /m3,mail3a

Dated: 9/30/99 at 10:56
Contents: 2

Item 1

TO: Woodson E. Elston /m6,mail6a
CC: Lynetta Baldwin /m6,mail6a; PHONE=205-321-4455
Jerry K. Higgins /m7,mail7a; PHONE=205-321-2673
Karen C. Hill /m2,mail2a; PHONE=615-646-7449
Beth Shiroishi /m4,mail4a; PHONE=404-927-1376

Item 2

Woody,

Listed below is the information you requested:

	Field Reporting Code	RTC	COST
Card Access Hardware	530C(inside data cntr)	523	?
	630C (outside data cntr)	523	$ 69K/ New Syst.
Card Access Software	460C	613	$206K New Syst.
Hardware Mntce	920M	481	$125K/Yr. Extg.

Submitted,

Rusty Foster 205-321-4793

Card Access Softw (206K) Facility

Application SW ~~exist~~ Server
Multiple Site ~~Facility~~ Code Software
Work stations (15) (addl application)
Oracle dB RTU fee
Server Hot Redundant w/o collocation
Backward Compatibility 375 existing
VCSN competitive

FRC
460C
-00

(206K)
(65,000) cards
(63K MM)
(60-70,000)
(1609)
375 of 400
@ # Cards
@ server size
Strategies 12-13 ⇒ cards keys
(POGE)
128,000

PROPRIETARY
Not for Disclosure Outside BellSouth
Except by Written Agreement

Matl	Source	Cost	
Virtual Collocation - 2 Fiber (Singlemode) 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		
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 Feet	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 duct.

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 = 800
Assumes 3mm patchcords, 2/ckt

What costs are recovered in space construction?

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

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%		
Total	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..

BELLSOUTH COLLOCATION COST STUDY

PROJECT: TYPICAL COLLOCATOR COSTS - WIRE MESH PARTITION SYSTEM
LOCATION: Varies ROOM AREA: 100 SF
CLIENT: BellSouth Telecommunications, IncPROJECT NO: DATE: 3/22/2000

SUMMARY

DESCRIPTION	PERCENT OF JOB	SUBTOTAL COST	COST PER SQ. FT.
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-TITY	UNIT MEAS.	UNIT COST	SUBTOTAL COST	TOTAL COST
1. GENERAL CONDITIONS					
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.

41

	25			50			100			150			200		
	Qty	Unit Cost	Total	Qty	Unit Cost	Total	Qty	Unit Cost	Total	Qty	Unit 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		$
Swing Door & Lockset	1		$	1		$	1		$	1		$	1		$
Additional Protection	1		$	1		$	1		$	1		$	1		$
Electrical	1		$	1		$	1		$	1		$	1		$
Grounding	1		$	1		$	1		$	1		$	1		$
Signage	1		$	1		$	1		$	1		$	1		$
General															
Cleanup	1		$	1		$	1		$	1		$	1		$
Superintendent (5%)	1		$	1		$	1		$	1		$	1		$
Contingency(5%)	1		$	1		$	1		$	1		$	1		$
Contractor Fee (12%)	1		$	1		$	1		$	1		$	1		$
A/E Fees(16%)	1		$	1		$	1		$	1		$	1		$
Project Mgmt(5%)	1		$	1		$	1		$	1		$	1		$
Total			$			$			$			$			$
Construction w/o gen.cond.			$			$			$			$			$
Total Construction w/o fee			$			$			$			$			$
Total Construction w/fee			$			$			$			$			$
Incremental cost per 50sf from std. Cost (100sf)						$			$			$			$
Percentage Cost															

25

	250			300			350			400		
	Qty	Unit Cost	Total	Qty	Unit Cost	Total	Qty	Unit Cost	Total	Qty	Unit Cost	Total
Wire mesh panels (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		$	1		$	1		$	1		$
Grounding	1		$	1		$	1		$	1		$
Signage	1		$	1		$	1		$	1		$
General												
Cleanup	1		$	1		$	1		$	1		$
Superintendent (5%)	1		$	1		$	1		$	1		$
Contingency(5%)	1		$	1		$	1		$	1		$
Contractor Fee (12%)	1		$	1		$	1		$	1		$
A/E Fees(16%)	1		$	1		$	1		$	1		$
Project Mgmt(5%)	1		$	1		$	1		$	1		$
Total			$			$			$			$
Construction w/o gen.cond.			$			$			$			$
Total Construction w/o fee			$			$			$			$
Total Construction w/fee			$			$			$			$
Incremental cost per 50sf from std. Cost (100sf)			$			$			$			$
									Total Avg.Incremental cost			$
Percentage Cost			0%			-			-			
									Total Weighted Average Incremental cost			$

EJ

	A	B	C	D	E	F	G	I	J	K	L	M	N	O	P	Q
1			Updated 11/10/98 TEW @ 205-321-8113													
2																
3																
4	State	Cost	COLLOCATION	VIRTUAL		PHYSICAL										
5		#		Inputs	New Inputs	Inputs	New Inputs	Attachment Ref. #	Supporting Info							
6																
7	FL	H.1.7	Physical Collocation - Cable Support Structure, Per Entrance Cable													
8			Investment per Foot													
9			Cable Capacity													
10			Projected Actual Utilization													
11			Average Cable Length													
12																
13	FL	H.1.8	Physical Collocation - Power, Per Ampere													
14			Monthly Power Usage													
15			Average Monthly Cost per KWH													
16			Watts													
17			Rectifier Efficiency						The above formula has been modified to include a factor of 60006							
18									This factor is required to calculate commercial power consumption based upon the rating of the DC protection device							
19																
20																
21																
22	FL	H.1.9	Physical Collocation - 2-Wire Cross Connects													
23			Trunk Distributing Frame													
24			Material Price					2								
25			Circuit Capacity													
26			Projected Actual Utilization													
27			Number Required													
28			Connecting Block													
29			Material Price					3								
30			Circuit Capacity													
31			Projected Actual Utilization													
32			Number Required													
33			Cable													
34			Material Price per foot					4								
35			Number Feet													
36			Circuit Capacity													
37			Projected Actual Utilization													
38			Cable Rack													
39			Material Price per foot					5								
40			Number Feet													
41			Circuit Capacity						Note 1							
42			Projected Actual Utilization													
43																
44	FL	H.1.10	Physical Collocation - 4-Wire Cross Connec													
45			Trunk Distributing Frame													
46			Material Price					2								
47			Circuit Capacity													
48			Projected Actual Utilization													
49			Number Required													
50			Connecting Block													
51			Material Price					3								
52			Circuit Capacity													
53			Projected Actual Utilization													
54			Number Required													
55			Cable													
56			Material Price per foot					4								
57			Number Feet													
58			Circuit Capacity													
59			Projected Actual Utilization													
60			Cable Rack													
61			Material Price per foot					5								
62			Number Feet													
63			Circuit Capacity						Note 1							
64			Projected Actual Utilization													

59

	A	B	C	D	E	F	G	I	J	K	L	M	N	O	P	Q
65				VIRTUAL		PHYSICAL										
66	RL	H 1 11	Physical Collocation - DS1 Cross Connects													
67			DSX-1 Panel Provided by another group													
68			Cable													
69			Material Price per foot					8								
70			Number Feet													
71			Additional Feet if Repeater													
72			Circuit Capacity													
73			Projected Actual Utilization													
74			Percent Repeater Required													
75			Cable Rack													
76			Material Price per foot					5								
77			Number Feet													
78			Additional Feet if Repeater													
79			Circuit Capacity						Note 2							
80			Projected Actual Utilization													
81			Percent Repeater Required													
82			Repeater Bay													
83			Material Price													
84			Circuit Capacity													
85			Projected Actual Utilization													
86			Percent Required													
87			Repeater Shelf													
88			Material Price													
89			Circuit Capacity													
90			Projected Actual Utilization													
91			Percent Required													
92			Repeater													
93			Material Price													
94			Circuit Capacity													
95			Projected Actual Utilization													
96			Percent Required													
97																
98	RL	H 1 12	Physical Collocation - DS3 Cross Connects													
99			DSX-3 Panel Provided by another group													
100			Cable													
101			Material Price per foot					7 and 8	Note 3							
102			Connector Material Price per cable					9 and 10								
103			Number Feet													
104			Additional Feet if Repeater													
105			Number Cables per Circuit													
106			Circuit Capacity													
107			Projected Actual Utilization													
108			Percent Repeater Required													
109			Cable Rack													
110			Material Price per foot					6								
111			Number Feet													
112			Additional Feet if Repeater													
113			Circuit Capacity						Note 4							
114			Projected Actual Utilization													
115			Percent Repeater Required													
116			Repeater Bay													
117			Material Price													
118			Circuit Capacity													
119			Projected Actual Utilization													
120			Percent Required													
121																
122																
123	RL	H 1 12	Repeater Shelf													
124			Material Price													
125			Circuit Capacity													
126			Projected Actual Utilization													
127			Percent Required													
128			Repeater													
129			Material Price													
130			Circuit Capacity													
131			Projected Actual Utilization													
132			Percent Required													
133																

	A	B	C	D	E	F	G	I	J	K	L	M	N
134	FL	H.1.13	Physical Collocation - 2-Wire POT Bay										
135			POT Bay										
136			Material Price						Note 5				
137			Circuit Capacity										
138			Projected Actual Utilization										
139			Termination Block w/Bridging Clips										
140			Material Price						Note 5				
141			Circuit Capacity										
142			Projected Actual Utilization										
143													
144	FL	H.1.14	Physical Collocation - 4-Wire POT Bay										
145			POT Bay										
146			Material Price						Note 5				
147			Circuit Capacity										
148			Projected Actual Utilization										
149			Termination Block w/Bridging Clips										
150			Material Price						Note 6				
151			Circuit Capacity										
152			Projected Actual Utilization										
153													
154	FL	H.1.15	Physical Collocation - DS1 POT Bay						Note 8				
155			POT Bay										
156			Material Price					11 and 12					
157			Circuit Capacity										
158			Projected Actual Utilization										
159			POT Bay Shelf										
160			Material Price					13					
161			Circuit Capacity										
162			Projected Actual Utilization										
163			POT Bay Module										
164			Material Price					14					
165			Circuit Capacity										
166			Projected Actual Utilization										
167													
168	FL	H.1.16	Physical Collocation - DS3 POT Bay						Note 8				
169			POT Bay										
170			Material Price					11 and 12					
171			Circuit Capacity										
172			Projected Actual Utilization										
173			POT Bay Shelf										
174			Material Price					15					
175			Circuit Capacity										
176			Projected Actual Utilization										
177			POT Bay Module										
178			Material Price					16					
179			Circuit Capacity										
180			Projected Actual Utilization										
181													
182													

	A	B	C	D	E	F	G	I	J	K	L	M	N	O	P	Q
183			Note 1 Assume 250a 100 Pr 800A cable OD=0 56"													
184			2' 6" Cable rack with max. 10" pileup													
185			Capacity = 30/.56 x 10/0.56 = 54 x 18 = 972 cables													
186			2wire Circuits = 972 x 100 = 97,200													
187			4wire circuits = 972 x 100/2 = 48600													
188																
189			Note 2: Assume 220a 818C 28 pair Cable OD = 0.64"													
190			2' 6" Cable rack with max. 10" pileup													
191			Capacity = 30/.64 x 10/.64 = 47 x 16 = 752 cables													
192			DS1 Circuits = 752 x 14 = 10,528													
193																
194			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 456'. 10% beyond 456' require repeaters. 90% less than 456'.													
195			Cables between 100 and 250 = 150/356 =42.3%. Cables between 250 and 456' = 206/356 = 57 7%													
196			735A cable utilization = 423 x 90% = 38%													
197			734D cable utilization = 100% - 38% = 62%													
198			734D = $ 660/ft 735A = $ 386/ft													
199			$/ft=(660)x(62)+(386)(38)= $ 486/ft													
200																
201			Note 4: from note 3, 38% of DS3 cable = 735A, 62% = 734D													
202			735A OD = .122" , 734D OD = 0.236"													
203			735A cross section = .122 x .122 = .0149 sq. in.													
204			734D cross section = .236 x .236 = .0557 sq. in.													
205			Cabl rack cross section = 30" x 10" = 300 sq in.													
206			Let X = total cables, 300 = (62)(X)(0557) + (38)(X)(0149)													
207			.034534X + .005662X = 300													
208			.040196X = 300													
209			X = 7463													
210			Capacity = 7463/2 = 3732													
211			735A cables = .38 (7463) = 2836													
212			734D cables = .62(7463) = 4627													
213																
214			Note 5: DSO POT Consists of following:													
215																
216																
217																
218																
219																
220																
221																
222																
223																
224																
225																
226			Note 6. DS1 and DS3 POT Bay consists of:													
227																
228																
229			Total Bay cost [illegible] 200 18													
230																
231			Note 7: 5" cable rack - length 5' & 5"													
232																
233																
234			Total = $19 90/ft +													
235																

Month	Active Cards
1	70,000
2	70,953
3	71,906
4	72,859
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
19	87,154
20	88,107
21	89,060
22	90,013
23	90,966
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

1,304	new card activation
351	card deactivation
953	net gain per month

86,678	Midpoint Active Cards
128,000	Apogee System Capacity

86,678 • 128,000 = 67.72%

67.72%	Projected Actual Utilization

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	72.5% (now 85%)
	Connecting Block	72.5% (now 85%)
	Cable Rack	67% (see note 1)
4-Wire Cross Connect	TDF	72.5% (now 85%)
	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%)
	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	90%
	Repeater	100%
	Repeater Bay	30%
	Repeater Shelf	80%
DS3 Cross Connect	Cable	100%
	Repeater	100%
	Repeater Bay	35%
	Repeater Shelf	85%
2-Wire POT Bay	POT Bay	40%

FL 12.13

	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%~~ 67%

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%

	A	B	C	D E	F	G	H	I	J	K
1	Yr	ST	GLC	Location	Est.$ per Sq.Ft.		Proposed Weighting	Weighted Colloca.$ per Sq.Ft.		
2										
3										
4				**ALABAMA**						
5	00	AL	11734	Hanceville - CO Addition	$ 4.00		5.00%	$ 0.20		
6	00	AL	11813	Huntsville University CO Addition	$ 12.00		11.00%	$ 1.32		
7		AL		Parish CO - Addition	$ 4.00		5.00%	$ 0.20		
8		AL		Carbon Hill	$ 5.00		5.00%	$ 0.25		
9		AL		West Blocton - Addition	$ 6.00		5.00%	$ 0.30		
10		AL		Riverchase CO - Finish 2nd Story	$ 15.00		16.00%	$ 2.40		
11		AL		Sylacauga Main - Growth	$ 7.00		5.00%	$ 0.35		
12		AL		Huntsville Main - Rear Addition	$ 15.00		11.00%	$ 1.65		
13		AL		Alabaster CO - 2nd Floor Additon	$ 10.00		10.00%	$ 1.00		
14		AL		Rogersville Main - Front Addition	$ 4.00		5.00%	$ 0.20		
15		AL		Lafayette Main - Addition	$ 5.00		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							100.00%	$ 9.67		
19				**FLORIDA**						
20		FL		Boca Raton	$ 15.00		12.00%	$ 1.80		
21		FL		Daytona Beach	$ 8.00		6.00%	$ 0.48		
22		FL		Holley-Navarre	$ 2.00		1.00%	$ 0.02		
23		FL		Jacksonville	$ 10.00		5.00%	$ 0.50		
24		FL		Lake Mary	$ 10.00		4.00%	$ 0.40		
25		FL		Miami	$ 12.00		14.00%	$ 1.68		
26		FL		North Dade	$ 12.00		20.00%	$ 2.40		
27		FL		West Palm Beach	$ 10.00		18.00%	$ 1.80		
28										
29				**Planned Additions**						
30		FL		Cross-City - Rear Addition	$ 2.00		1.00%	$ 0.02		
31		FL		JCVL Oceanway - Rear Addition	$ 4.00		1.00%	$ 0.04		
32		FL		Jacksonville Beachwood - Addition	$ 4.00		2.00%	$ 0.08		
33		FL		PNSC Ferry Pass Growth - Vert. Addn.	$ 5.00		2.00%	$ 0.10		
34		FL		Orlando Azalea Park - Addition	$ 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 Sawgrass - Rear Addition	$ 20.00		1.00%	$ 0.20		
38		FL		Coral 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		
41		FL		Sandalfoot CO - Addition	$ 15.00		1.00%	$ 0.15		
42							100.00%	$ 11.09		
43				**Kentucky**						
44		KY		LSVC - Westport Rd - Bldg Addition	$ 2.10		13.00%	$ 0.27		
45		KY		Pilotview - Bldg Addition	$ 0.65		7.60%	$ 0.05		
46		KY		Warfield - Bldg Addition	$ 0.65		7.60%	$ 0.05		
47		KY		Lebanon Jctn - Bldg Addition	$ 0.65		7.60%	$ 0.05		
48		KY		Bardstown CO - Bldg Addition	$ 1.60		16.00%	$ 0.26		
49		KY		Taylorsville - Bldg Addition	$ 0.65		7.60%	$ 0.05		
50		KY		Georgetown - Frame Bldg Addition	$ 1.85		10.00%	$ 0.19		
51		KY		McCart - Bldg Addition	$ 0.65		7.60%	$ 0.05		
52		KY		Clinton - Bldg Addition	$ 0.65		7.60%	$ 0.05		
53		KY		Perryville Buckner - Bldg Addition	$ 0.65		7.60%	$ 0.05		
54		KY		Wayland - Bldg Addition	$ 0.65		7.70%	$ 0.05	✓	
55							99.90%	$ 1.11		
56										

Attachment 4.
Item 2n

Land & Bldgs

Forward Looking Studies - 2000-2002

CALCULATION OF FORWARD LOOKING LAND AND BUILDING LOADING FACTORS

		DATA SOURCE EOY 1998	ALABAMA	FLORIDA	GEORGIA	KENTUCKY	LOUISIANA	MISSISSIPPI	NORTH CAROLINA	SOUTH CAROLINA	TENNESSEE	BELLSOUTH
1	ACCOUNT 2121 - BUILDING - 1998 EO	CSS	341,280,878	728,338,737	515,060,201	188,430,961	246,254,924	151,722,827	223,057,232	120,511,653	245,989,769	2,760,647,180
2	A/C2121, CP 2- BUILDINGS - CEN OFC	CSS	152,636,033	416,637,384	204,921,110	84,048,580	188,192,321	76,413,986	157,437,891	82,075,114	149,040,786	1,521,601,215
3	- CEN OFC % OF TOTAL BUILDINGS	LN 2/LN1	44.70%	57.12%	39.78%	56 51%	76 42%	50 38%	70 58%	68 85%	60 59%	55 56%
4	A/C2121, CP 8- BUILDINGS ASSOC W	CSS	29,348,445	64,572,959	28,801,928	1,300,639	524,187	27,472,510	5,118,442	731,611	29,563,650	187,432,368
5	- GPC % OF TOTAL BUILDINGS	LN 4/LN1	8 60%	8 87%	5 59%	0 78%	0 21%	18 11%	2 29%	0 61%	12 02%	6 84%
6	ACCOUNT 2111 - LAND - 1998 EOY	1999-2001 AVG	21,375	80,586	50,704	21,564	31,253	10,851	34,198	14,621	21,227	286,378
7	ACCOUNT 2121 - BUILDING	1999-2001 AVG	719,658	1,312,635	1,012,371	340,782	538,924	342,877	512,349	291,536	527,952	5,599,084
8	TOTAL LAND & BLDG	LN 6 + LN 7	741,034	1,393,231	1,063,075	362,316	570,177	353,728	546,546	306,157	549,179	5,885,442
9	ACCT 2124 - GEN PUR COMP	1999-2001 AVG	233,577	167,918	236,391	18,885	30,882	79,397	142,537	23,531	93,776	1,028,694
10	ACCOUNT 2200 - COE	1999-2001 AVG	2,266,020	6,356,706	3,482,893	1,311,476	2,442,871	1,414,184	2,877,279	1,578,946	2,872,223	24,403,601
11	A/C2121, BUILDINGS ASSOC W/COE	LN 3 * LN 7	321,672	749,795	402,765	192,567	411,856	172,687	361,628	200,729	319,877	3,133,563
12	A/C2121, BUILDINGS ASSOC W/GPC	LN 5 * LN 7	51,891	116,375	56,609	2,863	1,147	62,085	11,752	1,770	63,451	377 743
CALCULATION OF FORWARD LOOKING L&B FACTORS.												
13	CENTRAL OFFICE - LAND	(LN3)*(LN13)/LN10	0 0042120	0 0072440	0 0057920	0 0092870	0 0097770	0 0036640	0 0060150	0 0063780	0 0044780	0 0065200
14	CENTRAL OFFICE - BUILDING	LN 11 / LN 10	0 1418290	0 1179720	0 1158410	0 1468250	0 1685950	0 1221110	0 1360720	0 1271290	0 1113680	0 1284060
15	GEN PUR COMPUTER - LAND	(LN5)*(LN8)/LN9	0 0078700	0 0425530	0 0118930	0 0089200	0 0021680	0 0247470	0 0055030	0 0037720	0 0272050	0 0180530
16	GEN PUR COMPUTER - BUILDING	LN 12 / LN 9	0 2648700	0 6930470	0 2374640	0 1410130	0 0373890	0 7819540	0 0824500	0 0752160	0 6766700	0 3672050

Line 6 ÷ Line 8 = % Land

Line 7 ÷ Line 8 = % Building

LW 10/6/99

1/10/00

ATTACHMENT THREE
(8 Pages)
PROPRIETARY

BELLSOUTH TELECOMMUNICATIONS, INC.

FPSC DKT NO. 001797-TP

COVAD'S FIRST REQUEST FOR PRODUCTION OF DOCUMENTS

POD NO. 32

PROPRIETARY

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

Price Details

1.

Lucent Product ID: ED6C736-30 G-6
Contract No:
Description: [redacted]

Item 1 of 1
Price Effective Date: 02/14/2000

Price Type	Unit Price	Price Multiple / Unit of Measure	Qty Break
[redacted]			
Delivery Interval:			
Order Multiple:			
Manufacturer:			

Notes:

Add to my saved product list: Please Select

View product list: Please Select

Create new product list:

Help on this activity Return to price query

BOTTOM NAVBAR

2. By initiating any Electronic Commerce transaction herein related to the purchase of goods from I you are deemed to have accepted the Electronic Commerce Rules of use.

3.

4. PER TOM WEBBER: ADD 1" TO BASIC FRAME COST TO COVER MISC. ASSOCIATED HARDWARE SUCH AS WIRE RINGS, INSIGNATION BOARDS, ETC.

5.

BellSouth Central Office Driver Pricing

		ENGINEERING		INSTALLATION		MATI
		FIRST	EA. ADD.	FIRST	EA. ADD.	EACH
1	Assemble and Mount Bay or Cabinet					
2	Install Shelf or Unit in Bay					
3	Misc. Fuse termination - max length 30'					
	Office and Local Alarms					
5	Remote Alarms - X.25, TBOS, Discrete and Broadband					
6	Alarm Acceptance and Testing					
7	Miscellaneous Leads (Run/Connect) - max length 125 ft.					
8	Multiple Miscellaneous Leads (Run/Connect)					
9	Fiber Jumpers (Include Connectors One Pair (Xmt/Rcv) Pair) - max length 125 ft.					
10	Fiber Cross-Connect Jumpers ((Xmt/Rcv) Pair) - max length 30 ft.					
11	Fiber Duct added to existing line-up					
12	DS3/STS-1 (Ntwk Element to DSX-3) 1 cits. - max length 150ft.					
13	DS3/STS-1 (Ntwk Element to DSX-3) 6 cits. - max length 150 ft.					
14	DS3/STS-1 (Ntwk Element to DSX-3) 12 cits. - max length 150 ft.					
15	FUTURE - DS3/STS-1 (Ntwk Element to DSX-3) 24 cits.					
16	DS1/VT1.5 (Ntwk Element to DSX-1 Non-Connectorized) 28 cits - max length 150 ft.					
17	Connectorized DS1/VT1.5 (ntwk Element to DSX-1) 28 cits - max length 150 ft.					
18	Connectorized DS1/VT1.5 (Ntwk Element to DSX-1) (Non-Amph, Non-710 Conn.) 28 cits - max length 150					
19	DS0 (Ntwk Element to DF 25 Pair Connectorized) - max length 250 ft.					
20	DS0 (Ntwk Element to DF 100 Pair Connectorized) - max length 250 ft.					
21	Plugs and Circuit Packs - Handle, Warehouse, Deliver, verify					
22	Modules / Straps / Hardware Warehouse, deliver, handle, verify					
23	Power Per Load (BDFB) 1 - 15 amps - max length 150 ft.					
24	Power Per Load (BDFB) 16 - 30 amps - max length 150 ft.					
25	Power Per Load (BDFB) 31 - 45 amps - max length 150 ft.					
26	Power Per Load - Inter bay power - max length 125 ft.					
27	Power Per Load (Connectorized Power Cable Assemblies) - max length 30 ft.					
28	Timing Cable Per Pair - max length 250 ft.					
	Multiple Cable Within Same Bay					
30	Fuse Panel (MoFI only)					
31	Furnish Bay (All Types)(MoFI only)					
32	Cabinets (MoFI only)					
33	Terminal Strips and Wiring Blocks					
34	Seismic Bay (MoFI only)					
35	100 Foot stub					
36	200 Foot stub					
37	300 Foot stub					
38	600 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 Instl. costs					
43	Open and close cable hole					
44	300 and 400 type blocks - (350, 310, 400) material difference from 66 type					
45	Excessive cable lengths - DS0, DS1 and DS3 - max length in 250 ft. increments					
46	OEM provided cable assembly cost for intra bay cabling - installation costs only					
47	OEM provided cable assembly cost for inter bay cabling - installation costs only					
48	DS0 (Ntwk Element to DF 25 Pair Non-Connectorized both ends) - max length 250 ft.					
49	DS0 (Ntwk Element to DF 100 Pair Non-Connectorized both ends) - max length 250 ft.					

From Dave Woodcome. Supply Chain Mgmt 2/4/00

All prices shown are current.

QTY	Driver #	Installation Activity	ENGINEERING			INSTALLATION			MATERIAL	
			FIRST	EA. ADD.	Total	FIRST	EA. ADD.	Total	EACH	Total
1	1	Assemble and Mount Bay/Cabinet								
14	2	Install Shelf/Unit/etc. in Existing Bay								
42	20	DS0 (Ntwk Element to DF 100 Pair Connectorized) 150'								
336	21	Plugs/Ckt Packs - Handle, Warehouse, Deliver								
1	31	Furnish Bay (All Types)(Mat'l only)								
42	33	Terminal Strips/Wiring Blocks								
14	42	1 hour of installation; 3 - 89 type blocks per/hour								

TOTALS **ENG:** **INST:** **MAT:**

Grand Total = $30,929

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

27	49	DS0 wire-wrap both ends; 100 pair

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.

It covers 89 type blocks, physical installation, engineering, and DS0 cabling between the 89 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 cabling 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 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/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 DS0 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.

TEXT
Subject: DSL line card w/test points - transition info
Creator: Rob Ehrhardt /Internet (Rob_Ehrhardt@corning.com)
Dated: 7/11/00 at 15:26
Size: 1353 bytes

Gentlemen, in response to your inquiry I am providing information regarding our DSL line splitter card with the test point access feature. Pls 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 Paul 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 Gary 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 replace the Test Shelf or will the line cards feature be an additional test capability).

Pls let us know your decision asap. As a courtesy to CCS, we request 4 wks 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

---------- Forwarded by Rob Ehrhardt/SP/Siecor on 07/11/2000 09:31 AM ----------

Paul Davis
07/10/2000 05:30 PM

To: Rob Ehrhardt/SP/SiecorCorningCS
cc: Jim Cummins/SP/SiecorCorningCS
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 affected part numbers and prices are:

Description	VPN	CPR	CURRENT PRICE	NEW PRICE (w/new line card)
96-line CO Splitter Shelf (current)		COSP96S2R000	N/A	N/A
96-line CO Splitter Shelf (w/test access)		COSP96S1R000	N/A	N/A
4-line Card (current)	COSP00S20000	-	M72812	N/A
4-line Card (w/test access pt's)	COSP00S180000	tbd	N/A	
Empty CO Splitter Shelf (current)		COSP00S2R000	200133	N/A

Bantam Jack Test Shelf (current)	COSJBT096	201181	N/A
24-line RT Splitter shelf (rear access)	COSX2488C014	tbd	(1)
24-line RT Splitter shelf (front access)	COSX2488C015	tbd	(1)

(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.

Paul Davis
Market Specialist - Public Networks
Corning Cable Systems

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