



# **Collocation: Remote Terminal**

**WASHINGTON  
November 2001**

**Study ID: 5932**

**QWEST CORPORATION  
Policy and Law**

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## ***Executive Summary***

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### **A. PURPOSE, SCOPE, AND APPLICATION**

The purpose of this study is to determine the expenses and recurring costs that will be incurred by Qwest to provide Remote Terminal Collocation for customers.

This study develops Qwest average costs. Costs are based on a per unit basis depending upon which element is being requested.

### **B. DESCRIPTION OF SERVICE**

Remote Terminal Collocation offers space in available remote cabinets eliminating the distance constraints on DSL providers. The space rate element is unitized on a Standard Mounting Unit (SMU) level and includes access to AC/DC power, heat dissipation and terminations to the Feeder Distribution Interface (FDI). The FDI termination rate element is per 25-pairs and includes the termination blocks and cables.

#### Cost Elements

- **Space** (per standard mounting unit; 1.75 vertical inches)

This non-recurring rate is associated with the cabinet space and includes the cost of the cabinet and all of the work and materials associated with placement of the cabinet. The recurring rate associated with the Space recovers the maintenance of the materials and equipment associated the cabinet along with a portion of the costs required for the power pedestal.

- **Feeder Distribution Interface (FDI) Terminations** (per 25 pair)

This non-recurring rate includes all costs associated with initial FDI upgrade work required to provide the terminations requested at the FDI. The recurring rate associated with the FDI recovers the maintenance of the cable between the FDI and the Remote Collocation cabinet, as well as, the maintenance of the terminations at the FDI. These charges will apply for both DS0 and DS1.

### **C. STUDY METHODOLOGY**

The costs were developed from material, engineering and installation labor costs provided by Subject Matter Experts (SME's) in Central Office Engineering and Outside Plant Engineering.

Monthly maintenance costs were developed by taking the element-specific expense and applying the account code specific maintenance factor.

The investments/expenses from the above items were then entered into the WCP (Wholesale Cost Program) model, developed and used within Qwest.

### D. DESCRIPTION OF LONG RUN INCREMENTAL COSTS

Long Run Incremental Cost (LRIC) is the method Qwest uses to estimate product and service costs. It provides a measurement of costs over a period of time long enough to fully adjust to changes of output (including changes in the size of facilities, levels of investment, etc.) in order to optimally accommodate this change. This methodology is forward looking in nature (i.e. LRIC uses the latest technology costs or replacement costs.) Since LRIC is forward looking, it does *not* measure historic investment decisions of the corporation.

The Qwest LRIC format disaggregates the cost results on a unitized basis into the components shown below:

**Total Service Long Run Incremental Cost (TSLRIC)** --Total Service Long Run Incremental Cost is the forward looking cost avoided (or added) by discontinuing (or offering) an entire service or group of services in the most efficient manner, holding constant the production of all other services produced by the firm. This cost is often referred to in economic terms as direct cost.

**Shared Cost (SC)**-- The cost associated with the provision of multiple services (service family). This cost is not volume sensitive and is eliminated only if the entire service family is discontinued.

**Total Service Long Run Incremental Costs plus Shared Costs (TSLRIC+SC)**--The Total Service Long Run Incremental Costs for a service plus the Shared Costs of a family of services.

**Total Element Long Run Incremental Cost (TELRIC)** -- Total Element Long Run Incremental Cost, as defined by the Federal Communications Commission, is the sum of the forward looking direct cost incurred in the production of a network element (as opposed to an entire service), attributed costs considered as shared cost under TSLRIC terminology and selected administrative costs considered as common under TSLRIC terminology.

#### **Common Cost (CC)**

For **TSLRIC** purposes, common costs are the current cost incurred for the benefit of the enterprise as a whole. This cost does not vary with the provision of a service or a service family. These costs are sometimes referred to as *general overhead costs*. The Common Cost added to the TSLRIC + SC produces a **Fully Allocated Cost (FAC)** as required by Commission rules.

For **TELRIC** purposes, common costs are the current cost incurred for the benefit of the enterprise as a whole, after those cost that vary with the provisioning of individual network elements are removed. The costs removed from common for TELRIC purposes are included in the TELRIC itself. **Total Long Run Incremental Cost plus TELRIC common costs (TELRIC + CC)** form the basis for pricing Interconnection network elements. TELRIC + CC is the equivalent of fully allocated cost as the term is applied to network elements.

Typically, the cost identified by these cost categories include capital costs for depreciation, return, and income taxes. TSLRIC also includes ongoing operating costs for: administration expense, product management expense, pre sales expense, and business fees.

### E. STUDY ASSUMPTIONS

1. All cost are forward looking.
2. See "Inputs" worksheet for a summary of the assumptions.

# Collocation: Remote Terminal

## Remote Terminal Collocation: Washington

### Rate Summary\*

	NRC	RC
Space (per Standard Mounting Unit)	\$ 867.19	\$ 0.52
FDI Terminations (per binder group (25-PR))	\$ 558.38	\$ 0.30
Power (see Collocation rates)		

**\* Costs Not Included:**

Shelf Cost

Element Management System (EMS)

Remote Test Access Unit

Technician time to re-jumper the FDI through DA Hotel.



**Study Information**

	Value	
Filing Month	November	
Filing Year	2001	
State	WA	
State Full Name	WASHINGTON	
Run Date	11/7/01	
Factor Vintage	99WA02E	
Study ID	5932	

**Configuration Quantities**

	Value	Unit
<b>Vendor 1 Cost</b>		
Max Port Usage	3.0	Cards
Additional Cabinet Cost: Pad Mounting Bracket	\$ 136.00	Dollars
Additional Cabinet Cost: 2-Protector Blocks for DS1 Terms	\$ 522.00	Dollars
<b>Between Cabinets</b>		
Distance Between Cabinets (feet)	35	Feet
Cable Length Between Cabinets (feet)	50	Feet
Total Number Copper Pairs Between Cabinets	400	Pairs
Total Number of DS1s Between Cabinets	50	Pairs
Total Number of 4" Duct Between Cabinets {Copper}	3	Each
Total Number of Set of 2, 2" Innerduct Between Cabinets {Fiber}	1	Set
<b>FDI Specific:</b>		
Number of Additional Termination Blocks	8	Each
Number of Terminations per Block	25	Each

**Weightings**

	Value	Source
FDI Augment Utilization Fill Factor	70%	
Weighting for Telephony	50%	
Weighting for Packet Switching	85%	
Weighting for Remote Terminal (Whole.)	15%	
Weighting for Remote Terminal Collo w/Telephony	25.0%	
<b>Architecture Weightings</b>		
Vendor 1 Architecture	88%	
Vendor 2 Architecture	12%	
Percent of Time Power Ped Required	90%	
Standard Mounting Unit	1.75	
Cabinet Type 1 (23")	23.00	
Cabinet Type 2 (40")	40.00	
Space Utilization Factor	33%	

**Collocation Model**

	Value	
Power Maint Expense Adj	0.002308	G. Investment Factors

**Factors**

	Value	
WCP Version	2.06	
Cost of Money	9.63%	
Capital Recovery	01/01	
Maintenance	01/01	
Ad Valorem	01/01	
Power		
Sales Tax		
Interest During Construction		

## Collocation: Remote Terminal

COE Land & Bldg	01/01
Directly Assigned Factors	01/01
Directly Attributable Factors	01/01
Common	01/01
Vintage	99WA02E
<u>Investment Loadings</u>	
Power	0.042200
Sales Tax	0.082900
Interest During Construction	0.006100
<u>COE Land And Building Investment</u>	
Building	0.067900
Land	0.002800
<u>Investment Based Monthly Direct Costs</u>	
Depreciation	0.090203
Cost Of Money	0.043242
Income Tax Expense	0.014796
Maintenance	0.010327
Ad Valorem Tax	0.003935
<u>COE Land And Building Cost</u>	
COE Building	0.150815
COE Land	0.153072
<u>Directly Assigned</u>	
Product Management Expense	0.053904
Sales Expense	0.013375
Product Advertising Expense	0.000000
Business Fees (Other Operating Taxes)	0.042327
<u>Directly Attributed</u>	
Network Operations	0.000000
Network Support Assets	0.000000
General Support Assets	0.000000
General Purpose Computers	0.000000
Uncollectible	0.000000
Accounting & Finance Expense	0.000000
Human Resources Expense	0.000000
Information Management Expense	0.000000
Intangibles	0.000000
State Prescribed Directly Attributed	0.196200
<u>Common</u>	
Executive Expense	0.000000
Planning Expense	0.000000
External Relations Expense	0.000000
Legal Expense	0.000000
Other Procurement Expense	0.000000
Research & Development Expense	0.000000
Other General and Admin Expense	0.000000
State Prescribed Common	0.040500



## Remote Terminal Collocation

### JPR Assumption Summary

#### Configuration Quantities

##### Weightings

FDI Augment Utilization Fill Factor	70%
Weighting for Packet Switching	85%
Weighting for Remote Terminal (Whole.)	15%
Weighting for Remote Terminal Collo w/Telephony	25%
Architecture Weightings	
Vendor 1 Architecture	88%
Vendor 2 Architecture	12%
Percent of Time Power Ped Required	90%
Standard Mounting Unit	1.75
Cabinet Type 1 (23")	23
Cabinet Type 2 (40")	40
Space Utilization Factor	33%

Conversion
SMUs
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23

### Cost Summary

	Loaded Cost	Usage Weighting	SMU Quantity	Utilization Factor	Total
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#### FDI Augment (per block - 25 terminations)

Non-Recurring (per 25 terminations, 1 of 8 blocks)	\$ 1,988.46	0.125	n/a	70%	\$ 355.08
Recurring	\$ 1.07	0.125	n/a	70%	\$ 0.19

#### DA Cabling

Non-Recurring (per 25-pair, 25 of 400-pair)	\$ 2,276.99	0.0625	n/a	70%	\$ 203.30
Recurring	\$ 1.22	0.0625	n/a	70%	\$ 0.11

#### Total FDI Terminations (per binder group (25-pair))

<b>NRC</b>	<b>RC</b>
\$ 558.38	\$ 0.30

#### DA Hotel Calculations

	Loaded Cost	Usage Weighting	SMU Quantity	Utilization Factor	Total per SMU
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##### DA Hotel: Vendor A

<b>Total Non-Recurring</b>	\$ 3,412.90	88%	13	33%	\$ 700.08
<b>Total Recurring</b>	\$ 2.10	88%	13	33%	\$ 0.43

##### DA Hotel: Vendor B

<b>Total Non-Recurring</b>	\$ 10,569.56	12%	23	33%	\$ 167.11
<b>Total Recurring</b>	\$ 5.67	12%	23	33%	\$ 0.09

#### Total Weighted DA Hotel (per Standard Mounting Unit (SMU))

<b>NRC</b>	<b>RC</b>
\$ 867.19	\$ 0.52

# Collocation: Remote Terminal

## Remote Terminal Collocation

### Configuration Summary

FDI Augment	FRC	RC	NRC	Cost	Wtg	Total Cost
<b>Total Weighted FDI Cost</b>	45		x	\$ 1,436.11	100.00%	\$ 1,436.11

DA Cabling	FRC	RC	NRC	Cost	Wtg	Total Cost
<b>Total Weighted DA Hotel Cabling</b>	4/45		x	\$ 1,644.50	100.00%	\$ 1,644.50

### DA Hotel: Vendor A

Material	FRC	RC	NRC	Cost	Wtg	Total Cost
Cabinet: DA Overlay	257		x	\$ 8,875.97	15.00%	\$ 1,331.40
Additional Cabinet Cost: Pad Mounting Bracket	257		x	\$ 136.00	7.50%	\$ 10.20
Additional Cabinet Cost: 2-Protector Blocks for DS1 Terms	45		x	\$ 522.00	50.00%	\$ 261.00
Installation: Generic Remote DSL Pad	4		x	\$ 1,952.08	7.50%	\$ 146.41
Exempt Material	4		x	\$ 454.66	7.50%	\$ 34.10
Juicebox Power Pedestal 100-30 Pad	257		x	\$ 2,028.35	6.75%	\$ 136.91
Juicebox Power Pedestal 100-30 Pad	257	x		\$ 2,028.35	0.75%	\$ 15.21
Remote Ankor Frame for 52E	257		x	\$ 147.23	7.50%	\$ 11.04

<b>Total Material Costs</b>							\$ 1,946.27
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### Engineering

#### Engineering Costs Associated with:

Cabinet: DA Overlay	257		x	\$ 329.95	7.50%	\$ 24.75
Installation: Generic Remote DSL Pad	4		x	\$ 106.00	7.50%	\$ 7.95
Juicebox Power Pedestal 100-30 Pad	257		x	\$ 53.00	6.75%	\$ 3.58
Juicebox Power Pedestal 100-30 Pad	257	x		\$ 53.00	0.75%	\$ 0.40
Commercial Power: Electrician Cnct AC to Cab (Cntrctr)	257		x	\$ 300.00	7.50%	\$ 22.50

<b>Total Engineering Costs</b>							\$ 59.17
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### Splicing

#### Splicing Costs Associated with:

Cabinet: DA Overlay (splice time)	257		x	\$ 4.62	7.50%	\$ 0.35
Cabinet: DA Overlay	257		x	\$ 119.26	7.50%	\$ 8.94
Exempt Material	257		x	\$ 31.21	7.50%	\$ 2.34
Splice Setup: Site Setup for Splice Activity	45		x	\$ 89.00	7.50%	\$ 6.68
Exempt Material	45		x	\$ 23.29	7.50%	\$ 1.75

<b>Total Splicing Costs</b>							\$ 20.05
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## Collocation: Remote Terminal

### Remote Terminal Collocation

#### Installation

##### Installation Costs Associated with:

Cabinet: DA Overlay	257		x		\$ 26.17	7.50%	\$ 1.96
Installation Hourly Costs	257		x		\$ -	7.50%	\$ -
Juicebox Power Pedestal 100-30 Pad (T&T)	257		x		\$ 42.03	6.75%	\$ 2.84
Juicebox Power Pedestal 100-30 Pad (T&T)	257	x			\$ 42.03	0.75%	\$ 0.32
Commercial Power: Electrician Cnct AC to Cab (Cntrctr)	257		x		\$ 1,700.00	7.50%	\$ 127.50
Remote Ankor Frame for 52E	257		x		\$ 84.06	7.50%	\$ 6.30
Placing Cabinet: Less than 1000 Pounds (Cntrctr)	257		x		\$ 334.65	7.50%	\$ 25.10
Placement: Power Pedestal (Cntrctr)	257		x		\$ 75.51	6.75%	\$ 5.10

<b>Total Installation Costs</b>							<b>\$ 169.11</b>
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#### Right-Of-Way

Right of Way for Privately Owned Locations	45		x		\$ 3,710.00	7.500%	\$ 278.25
Right of Way for Publicly Owned Locations	45		x		\$ 106.00	7.500%	\$ 7.95

<b>Total Right-Of-Way Costs</b>							<b>\$ 286.20</b>
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<b>Total Cost, DA Hotel: Vendor A</b>							<b>\$ 2,480.81</b>
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<b>DA Hotel: Vendor A Weighted Expense by FRC</b>		
	FRC	Total
	4C \$	188.46
	45C \$	555.62
	257C \$	1,720.81
		<u>\$ 2,464.88</u>

<b>DA Hotel: Vendor A Weighted Investment by FRC</b>		
	FRC	Total
	4C \$	-
	45C \$	-
	257C \$	15.93
		<u>\$ 15.93</u>

# Collocation: Remote Terminal

## Remote Terminal Collocation

### DA Hotel: Vendor B

#### Material

		RC	NRC	Cost	Wtg	Total Cost
Cost per USAM Shelf	257		x	\$ 24,086.53	25%	\$ 6,021.63
Placement: Up to 6" Concrete to Forms for Cabinet Base	257		x	\$ 2,695.44	13%	\$ 336.93
Juicebox Power Pedestal 100-30 Pad	257		x	\$ 2,028.35	13%	\$ 253.54

**Total Material Costs** \$ 6,612.11

#### Engineering

##### Engineering Costs Associated with:

Cost per USAM Shelf	257		x	\$ 530.00	13%	\$ 66.25
Juicebox Power Pedestal 100-30 Pad	257		x	\$ 53.00	13%	\$ 6.63
Commercial Power: Electrician Cnct AC to Cab (Cntrctr)	257		x	\$ 300.00	13%	\$ 37.50

**Total Engineering Costs** \$ 110.38

#### Splicing

##### Splicing Costs Associated with:

Splicing: Copper Pairs for Buried Cable - Extra Splices	45		x	\$ 477.04	13%	\$ 59.63
Exempt Material	45		x	\$ 124.82	13%	\$ 15.60
Splice Setup: Site Setup for Splice Activity	45		x	\$ 89.00	13%	\$ 11.13
Exempt Material	45		x	\$ 23.29	13%	\$ 2.91
Trip Charge for Qwest to and from Urban Work Location	257		x	\$ 267.00	13%	\$ 33.38

**Total Splicing Costs** \$ 122.64

#### Installation

##### Installation Costs Associated with:

Large Cabinet Equipped with 12 USAM Shelves {T&T}	257		x	\$ 42.03	13%	\$ 5.25
Juicebox Power Pedestal 100-30 Pad {T&T}	257		x	\$ 42.03	13%	\$ 5.25
Commercial Power: Electrician Cnct AC to Cab (Cntrctr)	257		x	\$ 1,700.00	13%	\$ 212.50
Placing Cabinet: 1000 Pounds or More	257		x	\$ 446.17	13%	\$ 55.77
Placement: Ground Grid	257		x	\$ 186.00	13%	\$ 23.25
Placement: Power Pedestal (Cntrctr)	257		x	\$ 75.51	13%	\$ 9.44

**Total Installation Costs** \$ 311.47

#### Right-Of-Way

Right of Way for Privately Owned Locations	45		x	\$ 3,710.00	13%	\$ 463.75
Right of Way for Publicly Owned Locations	45		x	\$ 106.00	13%	\$ 13.25

**Total Right-Of-Way Costs** \$ 477.00

**Total Cost, DA Hotel: Vendor B** \$ 7,633.59

### DA Hotel: Vendor B Expense by FRC

FRC	Total
45C	\$ 566.27
257C	\$ 7,067.32
	\$ 7,633.59

# Collocation: Remote Terminal

## FDI Augment

### FDI Assumption Summary

#### Configuration Quantities

Amt Unit

FDI Specific:

Number of Additional Termination Blocks	8	Each
Number of Terminations per Block	25	Each

### Use Existing FDI

#### Material

FRC Qty Unit Qty Unit Unit Cost Amount

##### New Termination Blocks

Block: SAI 25-Pair Block	45			8	Each	\$ 117.11	\$ 936.88
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<b>Total Material Costs</b>							\$ 936.88
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#### Engineering

##### Engineering Costs Associated with:

Block: SAI 25-Pair Block	45	8	Each	1	Hour(s)	\$ 53.00	\$ 424.00
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<b>Total Engineering Costs</b>							\$ 424.00
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#### Splicing

##### Splicing Costs Associated with:

Block: SAI 25-Pair Block {8*25=200}	45	200	Pair	0.007	Hour(s)	\$ 44.50	\$ 59.63
Exempt Material {8*25=200}	45	200	Pair	0.007	Each	\$ 11.64	\$ 15.60

<b>Total Splicing Costs</b>							\$ 75.23
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FDI Total

<b>Total Cost, Use Existing FDI</b>							\$ 1,436.11
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### FDI Augment Expense by FRC

	FRC	Total
	45C	\$ 1,436.11
		\$ 1,436.11

# Collocation: Remote Terminal

## DA Hotel Cabling

{Cable placement for new DA Hotel & splicing at FDI only.}

### DA Hotel Cabling Assumptions

#### Configuration Quantities

Between Cabinets

	Amt	Unit
Distance Between Cabinets (feet)	35	Feet
Cable Length Between Cabinets (feet)	50	Feet
Total Number Copper Pairs Between Cabinets	400	Pairs
Total Number of DS1s Between Cabinets	50	Pairs
Total Number of 4" Duct Between Cabinets {Copper}	3	Each
Total Number of Set of 2, 2" Innerduct Between Cabinets {Fiber}	1	Set

### DA Hotel Cabling Calculations

#### Material

##### Cabling

Material	FRC	Qty	Unit	Qty	Unit	Unit Cost	Amount
Copper Cable Buried: 24 Gauge, 400-Pair	45			50	Sheath Feet	\$ 2.75	\$ 137.61
Copper Cable Buried: 24 Gauge, 50-Pair	45			50	Sheath Feet	\$ 0.44	\$ 22.19
Conduit: 4" PVC-Type Conduit - 1 Duct Buried	4	3	Each	35	Feet	\$ 0.85	\$ 89.12
Innerduct: 2, 1-1/4" Innerduct Buried	4	1	Set	35	Feet	\$ 0.73	\$ 25.61

**Total Material Costs** \$ 274.53

#### Engineering

##### Engineering Costs Associated with:

Design Work Package	45			8.0	Hour(s)	\$ 53.00	\$ 424.00
Copper Cable Buried: 24 Gauge, 400-Pair	45	50	Sheath Feet	0.0112	Hour(s)	\$ 53.00	\$ 29.68
Copper Cable Buried: 24 Gauge, 50-Pair	45	50	Sheath Feet	0.0074	Hour(s)	\$ 53.00	\$ 19.61
Conduit: 4" PVC-Type Conduit - 1 Duct Buried {3*35=105}	4	105	Sheath Feet	0.0032	Hour(s)	\$ 53.00	\$ 17.81
Innerduct: 2, 1-1/4" Innerduct Buried {1*35=35}	4	35	Sheath Feet	0.013	Hour(s)	\$ 53.00	\$ 24.12

**Total Engineering Costs** \$ 515.21

#### Splicing

##### Splicing Costs Associated with:

Copper Cable Buried: 24 Gauge, 400-Pair {2*400=800}	45	800	Pair	0.0067	Hour(s)	\$ 44.50	\$ 238.52
Exempt Material {2*400=800}	45	800	Pair	0.0067	Each	\$ 11.64	\$ 62.41
Splice Setup: Site Setup for Splice Activity	45	1	Each	2	Hour(s)	\$ 44.50	\$ 89.00
Exempt Material	45	1	Each	2	Each	\$ 11.64	\$ 23.29
Copper Cable Buried: 24 Gauge, 50-Pair {2*50=100}	45	100	Pair	0.0067	Hour(s)	\$ 44.50	\$ 29.82
Exempt Material {2*50=100}	45	100	Pair	0.0067	Each	\$ 11.64	\$ 7.80
Splice Setup: Site Setup for Splice Activity	45	1	Each	2	Hour(s)	\$ 44.50	\$ 89.00
Exempt Material	45	1	Each	2	Each	\$ 11.64	\$ 23.29

**Total Splicing Costs** \$ 563.13

## Collocation: Remote Terminal

### DA Hotel Cabling

{Cable placement for new DA Hotel & splicing at FDI only.}

#### Installation

##### Costs Associated with:

Single Direct Buried Duct	45	1	Each	35	Feet	\$ 3.04	\$ 106.30
Each Additional Duct Placed in Trench	4	4	Each	35	Feet	\$ 0.40	\$ 55.36
Exempt Material {4*35=140}	4	140	Each	0.0079	Each	\$ 11.64	\$ 12.88
Copper Cable Buried: 24 Gauge, 400-Pair	45	2	Each	50	Sheath Feet	100	
Pulling Cable into Conduit (Line Costs)	45	2	Each	50	Feet	\$ 0.90	\$ 90.12
Line Hourly Costs	45	100	Each	0.0010	Hour(s)	\$ 48.55	\$ 4.86
Exempt Material	45	100	Each	0.0190	Each	\$ 11.64	\$ 22.12

<b>Total Installation Costs</b>	<b>\$ 291.64</b>
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<b>Total Cost, DA Hotel Cabling</b>	<b>\$ 1,644.50</b>
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#### DA Hotel Cabling Expense by FRC

	FRC	Total
	4C	\$ 224.89
	45C	\$ 1,419.61
		<u>\$ 1,644.50</u>

## Collocation: Remote Terminal

### DA Hotel: Vendor A

#### FDI Assumption Summary

	<u>Amt</u>	<u>Unit</u>
<b>Configuration Quantities</b>		
<i>Vendor 1 Cost</i>		
Max Port Usage	3	Cards
Additional Cabinet Cost: Pad Mounting Bracket	\$ 136.00	Dollars
Additional Cabinet Cost: 2-Protector Blocks for DS1 Terms	\$ 522.00	Dollars

### DA Hotel: Vendor A Calculations

<u>Material</u>	FRC	Qty	Unit	Qty	Unit	Unit Cost	Amount
<b>DA Hotel</b>							
Cabinet: DA Overlay	257			3	<i>per Card</i>	\$ 2,958.66	\$ 8,875.97
Additional Cabinet Cost: Pad Mounting Bracket	257			1	<i>Each</i>	\$ 136.00	\$ 136.00
Additional Cabinet Cost: 2-Protector Blocks for DS1 Terms	45			1	<i>Each</i>	\$ 522.00	\$ 522.00
Installation: Generic Remote DSL Pad	4			1	<i>Each</i>	\$ 1,952.08	\$ 1,952.08
Exempt Material	4	1	<i>Each</i>	39,0461	<i>Each</i>	\$ 11.64	\$ 454.66
Juicebox Power Pedestal 100-30 Pad	257			1	<i>Each</i>	\$ 2,028.35	\$ 2,028.35
Remote Ankor Frame for 52E	257			1	<i>Each</i>	\$ 147.23	\$ 147.23
<b>Total Material Costs</b>							\$ 14,116.29

#### Engineering

##### Engineering Costs Associated with:

Cabinet: DA Overlay	257	3	<i>per Card</i>	2.075134168	<i>Hour(s)</i>	\$ 53.00	\$ 329.95
Installation: Generic Remote DSL Pad	4	1	<i>Each</i>	2	<i>Hour(s)</i>	\$ 53.00	\$ 106.00
Juicebox Power Pedestal 100-30 Pad	257	1	<i>Each</i>	1	<i>Hour(s)</i>	\$ 53.00	\$ 53.00
Commercial Power: Electrician Cnct AC to Cab (Cntrctr)	257			1	<i>Each</i>	\$ 300.00	\$ 300.00
Remote Ankor Frame for 52E	257	1	<i>Each</i>	0	<i>Hour(s)</i>	\$ 53.00	\$ -

<b>Total Engineering Costs</b>							\$ 788.95
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#### Splicing

*(Cables placed & priced on DA Hotel Cabling tab.)*

##### Splicing Costs Associated with:

Cabinet: DA Overlay (splice time)	257	3	<i>per Card</i>	0.034571735	<i>Hour(s)</i>	\$ 44.50	\$ 4.62
Cabinet: DA Overlay	257	400	<i>Pair</i>	0.0067	<i>Hour(s)</i>	\$ 44.50	\$ 119.26
Exempt Material	257	400	<i>Pair</i>	0.0067	<i>Each</i>	\$ 11.64	\$ 31.21
Splice Setup: Site Setup for Splice Activity	45	1	<i>Each</i>	2	<i>Hour(s)</i>	\$ 44.50	\$ 89.00
Exempt Material	45	1	<i>Each</i>	2	<i>Each</i>	\$ 11.64	\$ 23.29

<b>Total Splicing Costs</b>							\$ 267.37
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#### Installation

##### Costs Associated with:

Cabinet: DA Overlay (T&T)	257	3	<i>per Card</i>	0.208	<i>Hour(s)</i>	\$ 42.03	\$ 26.17
Installation Hourly Costs	257	3	<i>per Card</i>	-	<i>Hour(s)</i>	\$ 42.03	\$ -
Juicebox Power Pedestal 100-30 Pad (T&T)	257			1.000	<i>Hour(s)</i>	\$ 42.03	\$ 42.03
Commercial Power: Electrician Cnct AC to Cab (Cntrctr)	257			1.000	<i>Each</i>	\$ 1,700.00	\$ 1,700.00
Remote Ankor Frame for 52E	257			2.000	<i>Each</i>	\$ 42.03	\$ 84.06
Placing Cabinet: Less than 1000 Pounds (Cntrctr)	257			1.000	<i>Each</i>	\$ 334.65	\$ 334.65
Placement: Power Pedestal (Cntrctr)	257			1.000	<i>Each</i>	\$ 75.51	\$ 75.51

<b>Total Installation Costs</b>							\$ 2,262.42
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#### Right-Of-Way

##### Costs Associated with:

Right of Way for Privately Owned Locations	45			3.5	<i>Each</i>	\$ 1,060.00	\$ 3,710.00
Right of Way for Publicly Owned Locations	45			1	<i>Each</i>	\$ 106.00	\$ 106.00

<b>Total Right-Of-Way Costs</b>							\$ 3,816.00
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<b>Total Cost, DA Hotel: Vendor A</b>							<b>\$ 21,251.02</b>
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## Collocation: Remote Terminal

***DA Hotel: Vendor A***

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<b><i>DA Hotel: Vendor A Costs by FRC</i></b>	
FRC	Total
4C \$	2,512.74
45C \$	4,450.29
257 \$	14,288.00
\$	21,251.02

## Collocation: Remote Terminal

### DA Hotel: Vendor B

#### DA Hotel: Vendor B Calculations

##### Material

##### DA Hotel

	FRC	Qty	Unit	Qty	Unit	Unit Cost	Amount
Large Cabinet Equipped with 12 USAM Shelves	257			1	Each	\$ 34,201.84	
Large Cabinet Equipped with 8 USAM Shelves	257			(1)	Each	\$ 30,830.07	
Cost per USAM Shelf	257			1			\$ 24,086.53
Placement: Up to 6" Concrete to Forms for Cabinet Base	257			160	Square Feet	\$ 16.85	\$ 2,695.44
Juicebox Power Pedestal 100-30 Pad	257			1	Each	\$ 2,028.35	\$ 2,028.35

<b>Total Material Costs</b>	<b>\$ 28,810.32</b>
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##### Engineering

##### Engineering Costs Associated with:

Large Cabinet Equipped with 12 USAM Shelves	257	1	Each	10	Hour(s)	\$ 53.00	\$ 530.00
Juicebox Power Pedestal 100-30 Pad	257	1	Each	1	Hour(s)	\$ 53.00	\$ 53.00
Commercial Power: Electrician Cnct AC to Cab (Cntrctr)	257			1	Each	\$ 300.00	\$ 300.00

<b>Total Engineering Costs</b>	<b>\$ 883.00</b>
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##### Splicing

*{Cables placed & priced on DA Hotel Cabling tab.}*

##### Splicing Costs Associated with:

Splicing: Copper Pairs for Buried Cable - Extra Splices	45	1,600	Pair	0.0067	Hour(s)	\$ 44.50	\$ 477.04
Exempt Material	45	1,600	Pair	0.0067	Each	\$ 11.64	\$ 124.82
Splice Setup: Site Setup for Splice Activity	45	1	Each	2	Hour(s)	\$ 44.50	\$ 89.00
Exempt Material	45	1	Each	2	Each	\$ 11.64	\$ 23.29
Trip Charge for Qwest to and from Urban Work Location	257	6	Each	1.0000	Hour(s)	\$ 44.50	\$ 267.00

<b>Total Splicing Costs</b>	<b>\$ 981.15</b>
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##### Installation

##### Installation Costs Associated with:

Large Cabinet Equipped with 12 USAM Shelves {T&T}	257	1	Each	1	Hour(s)	\$ 42.03	\$ 42.03
Juicebox Power Pedestal 100-30 Pad {T&T}	257	1	Each	1.0	Hour(s)	\$ 42.03	\$ 42.03
Commercial Power: Electrician Cnct AC to Cab (Cntrctr)	257			1	Each	\$ 1,700.00	\$ 1,700.00
Placing Cabinet: 1000 Pounds or More	257			1	Each	\$ 446.17	\$ 446.17
Placement: Ground Grid	257			1	Each	\$ 186.00	\$ 186.00
Placement: Power Pedestal (Cntrctr)	257			1	Each	\$ 75.51	\$ 75.51

<b>Total Installation Costs</b>	<b>\$ 2,491.74</b>
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##### Right-Of-Way

##### Costs Associated with:

Right of Way for Privately Owned Locations	45			3.5	Each	\$ 1,060.00	\$ 3,710.00
Right of Way for Publicly Owned Locations	45			1	Each	\$ 106.00	\$ 106.00

<b>Total Right-Of-Way Costs</b>	<b>\$ 3,816.00</b>
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#### **Total Cost, DA Hotel: Vendor B**

<b>\$ 36,982.21</b>
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## Collocation: Remote Terminal

### ***DA Hotel: Vendor B***

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#### ***DA Hotel: Vendor B Costs by FRC***

FRC	Total
45C \$	4,530.15
257C \$	32,452.06
\$	36,982.21

## Collocation: Remote Terminal

### WCP Recurring

	Factor Value	Vendor A DA Hotel Investment
257C Investment		\$ 15.93
<b><u>Investment Loadings</u></b>		
Power	0.042200	\$0.6720
Interest During Construction	0.006100	<u>\$0.1012</u>
<b>Loaded Investment</b>		<b>\$16.6986</b>
<b>COE Land And Building Investment</b>		
Building	0.067900	1.13384
Land	0.002800	<u>0.04676</u>
<b>Investment With COE Land And Bldg</b>		<b>17.87924</b>
<b>Investment Based Monthly Direct Costs</b>		
Depreciation	0.090203	0.12552
Cost Of Money	0.043242	0.06017
Income Tax Expense	0.014796	0.02059
Maintenance	0.010327	0.01437
Ad Valorem Tax	0.003935	<u>0.00548</u>
<b>Investment Based Monthly Direct Costs</b>		<b>0.22613</b>
<b>COE Land And Building Cost</b>		
COE Building	0.150815	0.01425
COE Land	0.153072	<u>0.00060</u>
<b>COE Land And Building Monthly Costs</b>		<b>0.01485</b>
<b>Total Investment Based Monthly Costs</b>		<b>0.24098</b>
<b>Directly Assigned</b>		
Product Management Expense	0.053904	0.01299
Sales Expense	0.013375	0.00322
Product Advertising Expense	0.000000	0.00000
Business Fees (Other Operating Tax)	0.042327	<u>0.01089</u>
<b>Directly Assigned Costs</b>		<b>0.02710</b>
<b>Total Direct Costs</b>		<b>0.26808</b>
<b>Directly Attributed</b>		
Network Operations	0.000000	0.00000
Network Support Assets	0.000000	0.00000
General Support Assets	0.000000	0.00000
General Purpose Computers	0.000000	0.00000
Uncollectible	0.000000	0.00000
Accounting & Finance Expense	0.000000	0.00000
Human Resources Expense	0.000000	0.00000
Information Management Expense	0.000000	0.00000
Intangibles	0.000000	<u>0.00000</u>
<b>Directly Attributed Costs</b>		<b>0.00000</b>
<b>TELRIC</b>		<b>0.26808</b>
<b>Common</b>		
Executive Expense	0.000000	0.00000
Planning Expense	0.000000	0.00000
External Relations Expense	0.000000	0.00000
Legal Expense	0.000000	0.00000
Other Procurement Expense	0.000000	0.00000
Research & Development Expense	0.000000	0.00000
Other General and Admin Expense	0.000000	<u>0.00000</u>
<b>Common Costs</b>		<b>0.00000</b>
<b>TELRIC + Common Costs</b>		<b>0.26808</b>

# Collocation: Remote Terminal

## WCP Maintenance

	Factor Value	FDI Augment Total	DA Hotel Cabling Total	Vendor A DA Hotel Total	Vendor B DA Hotel Total
Investment		\$ 1,436.11	\$ 1,644.50	\$ 2,464.88	\$ 7,633.59
<b>Investment Based Costs</b>					
Maintenance	0.008019	\$0.96	\$1.10	\$1.65	\$5.10
<b>Directly Assigned</b>					
Product Management Expense	0.053904	\$0.05173	\$0.05924	\$0.08879	\$0.27496
Sales Expense	0.013375	\$0.01284	\$0.01470	\$0.02203	\$0.06823
Product Advertising Expense	0.000000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
Business Fees (Other Operating Tax)	0.042327	\$0.04335	\$0.04964	\$0.07441	\$0.23044
<b>Directly Assigned Costs</b>		\$0.10792	\$0.12358	\$0.18522	\$0.57363
<b>Total Direct Costs</b>		\$1.06757	\$1.22248	\$1.83233	\$5.67462
<b>Directly Attributed</b>					
Network Operations	0.000000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
Network Support Assets	0.000000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
General Support Assets	0.000000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
General Purpose Computers	0.000000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
Uncollectible	0.000000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
Accounting & Finance Expense	0.000000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
Human Resources Expense	0.000000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
Information Management Expense	0.000000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
Intangibles	0.000000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
<b>Directly Attributed Costs</b>		\$0.00000	\$0.00000	\$0.00000	\$0.00000
<b>TELRIC</b>		\$1.06757	\$1.22248	\$1.83233	\$5.67462
<b>Common</b>					
Executive Expense	0.000000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
Planning Expense	0.000000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
External Relations Expense	0.000000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
Legal Expense	0.000000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
Other Procurement Expense	0.000000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
Research & Development Expense	0.000000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
Other General and Admin Expense	0.000000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
<b>Common Costs</b>		\$0.00000	\$0.00000	\$0.00000	\$0.00000
<b>TELRIC + Common Costs</b>		\$1.06757	\$1.22248	\$1.83233	\$5.67462

# Collocation: Remote Terminal

## WCP Non-Recurring

	Factor Value	FDI Augment Expense	DA Hotel Cabling Expense	Vendor A DA Hotel Expense	Vendor B DA Hotel Expense
Expense		\$ 1,436.11	\$ 1,644.50	\$ 2,464.88	\$ 7,633.59
<i>Directly Assigned</i>					
Product Management Expense	0.053904	\$ 77.41	\$ 88.65	\$ 132.87	\$ 411.48
Sales Expense	0.013375	\$ 19.21	\$ 22.00	\$ 32.97	\$ 102.10
Product Advertising Expense	0.000000	\$ -	\$ -	\$ -	\$ -
Business Fees (Other Operating Tax)	0.042327	\$ 64.88	\$ 74.29	\$ 111.35	\$ 344.85
<b>Directly Assigned Costs</b>		<b>\$ 161.50</b>	<b>\$ 184.93</b>	<b>\$ 277.19</b>	<b>\$ 858.43</b>
<b>Total Direct Monthly Costs</b>		<b>\$ 1,597.61</b>	<b>\$ 1,829.43</b>	<b>\$ 2,742.07</b>	<b>\$ 8,492.02</b>
<i>Directly Attributed</i>					
Network Operations	0.000000	\$ -	\$ -	\$ -	\$ -
Network Support Assets	0.000000	\$ -	\$ -	\$ -	\$ -
General Support Assets	0.000000	\$ -	\$ -	\$ -	\$ -
General Purpose Computers	0.000000	\$ -	\$ -	\$ -	\$ -
Uncollectible	0.000000	\$ -	\$ -	\$ -	\$ -
Accounting & Finance Expense	0.000000	\$ -	\$ -	\$ -	\$ -
Human Resources Expense	0.000000	\$ -	\$ -	\$ -	\$ -
Information Management Expense	0.000000	\$ -	\$ -	\$ -	\$ -
Intangibles	0.000000	\$ -	\$ -	\$ -	\$ -
State Prescribed Directly Attributed	0.196200	\$313.45	\$358.93	\$537.99	\$1,666.13
<b>Directly Attributed Costs</b>		<b>\$ 313.45</b>	<b>\$ 358.93</b>	<b>\$ 537.99</b>	<b>\$ 1,666.13</b>
<b>TELRIC</b>		<b>\$ 1,911.06</b>	<b>\$ 2,188.36</b>	<b>\$ 3,280.06</b>	<b>\$ 10,158.15</b>
<i>Common</i>					
Executive Expense	0.000000	\$ -	\$ -	\$ -	\$ -
Planning Expense	0.000000	\$ -	\$ -	\$ -	\$ -
External Relations Expense	0.000000	\$ -	\$ -	\$ -	\$ -
Legal Expense	0.000000	\$ -	\$ -	\$ -	\$ -
Other Procurement Expense	0.000000	\$ -	\$ -	\$ -	\$ -
Research & Development Expense	0.000000	\$ -	\$ -	\$ -	\$ -
Other General and Admin Expense	0.000000	\$ -	\$ -	\$ -	\$ -
State Prescribed Common	0.040500	\$77.40	\$88.63	\$132.84	\$411.41
<b>Common Costs</b>		<b>\$ 77.40</b>	<b>\$ 88.63</b>	<b>\$ 132.84</b>	<b>\$ 411.41</b>
<b>TELRIC + Common Costs</b>		<b>\$ 1,988.46</b>	<b>\$ 2,276.99</b>	<b>\$ 3,412.90</b>	<b>\$ 10,569.56</b>

# Collocation: Remote Terminal

1

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Configuration Package ID	Title	Unit of Measure	FRC	Suffix	Ntwk Cost per Unit
C-ACTVTY-COMPWR-ELECTICAL_CAB	Commercial Power: Electrician Cnct AC to Cab (Cntrctr)	Each	257	C	\$ 2,000.00
C-ACTVTY-CONCRET-BASE-CAST_IN_PL	Placement: Up to 6" Concrete to Forms for Cabinet Base	Square Feet	257	C	\$ 16.85
C-ACTVTY-CONDUIT-ENC-DIRBUR_1DUC	Single Direct Buried Duct	Feet	45	C	\$ 3.04
C-ACTVTY-CONDUIT-TRENCH_ADDITION	Each Additional Duct Placed in Trench	Feet	4	C	\$ 0.49
C-ACTVTY-COPPER-PULL_CNDR	Pulling Cable into Conduit	Feet	45	C	\$ 1.17
C-ACTVTY-COPPER-SPLICE-BURIED	Splicing: Copper Pairs for Buried Cable - Extra Splices	Pair	45	C	\$ 0.38
C-ACTVTY-DLCRT-CAB+1000LBS	Placing Cabinet: 1000 Pounds or More	Each	257	C	\$ 446.17
C-ACTVTY-DLCRT-CAB-1000LBS	Placing Cabinet: Less than 1000 Pounds (Cntrctr)	Each	257	C	\$ 334.65
C-ACTVTY-DLCRT-GROUND-GRID	Placement: Ground Grid	Each	257	C	\$ 186.00
C-ACTVTY-DLCRT-POWER-PED	Placement: Power Pedestal (Cntrctr)	Each	257	C	\$ 75.51
C-ACTVTY-DLCRT-REMOTE-DSL-PAD	Installation: Generic Remote DSL Pad	Each	4	C	\$ 2,406.69
C-ACTVTY-ROW-PRIVATE	Right of Way for Privately Owned Locations	Each	45	C	\$ 1,060.00
C-ACTVTY-ROW-PUBLIC	Right of Way for Publicly Owned Locations	Each	45	C	\$ 106.00
C-ACTVTY-SETUP-SITE_SPLICE_C	Splice Setup: Site Setup for Splice Activity	Each	45	C	\$ 112.29
C-ACTVTY-SETUP-TRIP_CHG-USW-UR	Trip Charge for Qwest to and from Urban Work Location	Each	257	C	\$ 44.50
C-CMNSYS-ACPPED-100-30-PADMTR	Juicebox Power Pedestal 100-30 Pad	Each	257	C	\$ 2,070.38
C-COPPER-BURIED-24GA_400PR	Copper Cable Buried: 24 Gauge, 400-Pair	Sheath Feet	45	C	\$ 3.35
C-COPPER-BURIED-24GA_50PR	Copper Cable Buried: 24 Gauge, 50-Pair	Sheath Feet	45	C	\$ 0.44
C-DLCRT-xxxx-USAM-CAB-16_12S	Large Cabinet Equipped with 12 USAM Shelves	Each	257	C	\$ 34,250.87
C-DLCRT-xxxx-USAM-CAB-16_8S	Large Cabinet Equipped with 8 USAM Shelves	Each	257	C	\$ 30,879.10
C-DSLRT-xxxx-ANK_FRAME	Remote Ankor Frame for 52E	Each	257	C	\$ 258.29
C-DSLRT-xxxx-CARD_ADD-48PTS	Card: Card Package	Each	257	C	\$ 14,425.79
C-STRCTR-CONDUIT-1_DUCT_BUR	Conduit: 4" PVC-Type Conduit - 1 Duct Buried	Feet	4	C	\$ 1.02
C-STRCTR-INRDUCT-BUR-2DUCT	Innerduct: 2, 1-1/4" Innerduct Buried	Feet	4	C	\$ 1.42
C-XCON-SAI-PED-25PR_BLOCKS	Block: SAI 25-Pair Block	Each	45	C	\$ 117.11
Engineering	Engineering Hourly Costs	Hour(s)		C	\$ 53.00
Exempt Material	Exempt Material	Each		C	\$ 11.64
Installation	Line Hourly Costs	Hour(s)		C	\$ 48.55
QwestInstallation	Installation Hourly Costs	Hour(s)		C	\$ 42.03
Splicing	Splicing Hourly Costs	Hour(s)		C	\$ 44.50
T&T	Test and Turnup	Hour(s)		C	\$ 42.03
X-DSLRT-xxxx-CARD_ADD-48PTS-CAB	Cabinet: DA Overlay	per Card	257	C	(n/a)

# Collocation: Remote Terminal

	7	8	9	10	11	12	13	14	15
	Material Costs						Qwest Labor C		
Configuration Package ID	Supplier Contract	BRI Load	Sales Tax	Shipping	Total Mat. Cost	Softwr RTU	Line \$ 48.55	Splice \$ 44.50	Install \$ 42.03
C-ACTVTY-COMPWR-ELECTICAL_CAB	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C-ACTVTY-CONCRET-BASE-CAST_IN_PL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C-ACTVTY-CONDUIT-ENC-DIRBUR_1DUC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C-ACTVTY-CONDUIT-TRENCH_ADDITION	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C-ACTVTY-COPPER-PULL_CNDT	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.00	\$ -	\$ -
C-ACTVTY-COPPER-SPLICE-BURIED	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.01	\$ -
C-ACTVTY-DLCRT-CAB+1000LBS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.000000	0.000000	0.000000
C-ACTVTY-DLCRT-CAB-1000LBS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.000000	0.000000	0.000000
C-ACTVTY-DLCRT-GROUND-GRID	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.000000	0.000000	0.000000
C-ACTVTY-DLCRT-POWER-PED	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.000000	0.000000	0.000000
C-ACTVTY-DLCRT-REMOTE-DSL-PAD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.000000	0.000000	0.000000
C-ACTVTY-ROW-PRIVATE	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.000000	0.000000	0.000000
C-ACTVTY-ROW-PUBLIC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.000000	0.000000	0.000000
C-ACTVTY-SETUP-SITE_SPLICE_C	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.000000	2.000000	0.000000
C-ACTVTY-SETUP-TRIP_CHG-USW-UR	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.000000	1.000000	0.000000
C-CMNSYS-ACPPED-100-30-PADMTD	\$ 1,837.20	\$ 0.92	\$ 110.23	\$ 80.00	\$ 2,028.35	\$ -	0.000000	0.000000	0.000000
C-COPPER-BURIED-24GA_400PR	\$ 2.35	\$ 0.26	\$ 0.14	\$ -	\$ 2.7521	\$ -	0.000000	0.000000	0.000000
C-COPPER-BURIED-24GA_50PR	\$ 0.38	\$ 0.04	\$ 0.02	\$ -	\$ 0.44	\$ -	0.000000	0.000000	0.000000
C-DLCRT-xxxx-USAM-CAB-16_12S	\$ 31,684.90	\$ 15.84	\$ 1,901.09	\$ 600.00	\$ 34,201.84	\$ -	0.000000	0.000000	0.166600
C-DLCRT-xxxx-USAM-CAB-16_8S	\$ 28,584.90	\$ 14.29	\$ 1,715.09	\$ 515.78	\$ 30,830.07	\$ -	0.000000	0.000000	0.166600
C-DSLRT-xxxx-ANK_FRAME	\$ 136.00	\$ 0.07	\$ 8.16	\$ 3.00	\$ 147.23	\$ -	0.000000	0.000000	2.000000
C-DSLRT-xxxx-CARD_ADD-48PTS	\$ 13,416.00	\$ 6.71	\$ 804.96	\$ 30.00	\$ 14,257.67	\$ -	0.000000	0.249900	1.000000
C-STRCTR-CONDUIT-1_DUCT_BUR	\$ 0.76	\$ -	\$ 0.05	\$ 0.04	\$ 0.85	\$ -	0.000000	0.000000	0.000000
C-STRCTR-INRDUCT-BUR-2DUCT	\$ 0.54	\$ 0.16	\$ 0.03	\$ 0.01	\$ 0.73	\$ -	0.000000	0.000000	0.000000
C-XCON-SAI-PED-25PR_BLOCKS	\$ 100.00	\$ 11.11	\$ 6.00	\$ -	\$ 117.11	\$ -	0.000000	0.000000	0.000000
Engineering	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)
Exempt Material	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)
Installation	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)
QwestInstallation	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)
Splicing	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)
T&T	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)
X-DSLRT-xxxx-CARD_ADD-48PTS-CAB	\$ 2,784.00	\$ 1.39	\$ 167.04	\$ 6.23	\$ 2,958.66	\$ -	0.000000	0.034572	0.000000



# Collocation: Remote Terminal

Configuration Package ID	16		17		18		19		20	
	Costs				Contract Labor Costs					
	Engrg	T&T	Install	Engineer	Exempt Material	Total				
	\$ 53.00	\$ 42.03					\$ 11.64			
C-ACTVTY-COMPWR-ELECTICAL_CAB	\$ -	\$ -	\$ 1,700.00	\$ 300.00	0	\$ 2,000.0000				
C-ACTVTY-CONCRET-BASE-CAST_IN_PL	\$ -	\$ -	\$ 16.85	\$ -	0	\$ 16.8465				
C-ACTVTY-CONDUIT-ENC-DIRBUR_1DUC	\$ -	\$ -	\$ 3.04	\$ -	0	\$ 3.0372				
C-ACTVTY-CONDUIT-TRENCH_ADDITION	\$ -	\$ -	\$ 0.40	\$ -	0.0079	\$ 0.4874				
C-ACTVTY-COPPER-PULL_CNDT	\$ -	\$ -	\$ 0.90	\$ -	0.019	\$ 1.1710				
C-ACTVTY-COPPER-SPLICE-BURIED	\$ -	\$ -	\$ -	\$ -	0.0067	\$ 0.3762				
C-ACTVTY-DLCRT-CAB+1000LBS	0.000000	0.000000	\$ 446.17	\$ -	0	\$ 446.1651				
C-ACTVTY-DLCRT-CAB-1000LBS	0.000000	0.000000	\$ 334.65	\$ -	0	\$ 334.6486				
C-ACTVTY-DLCRT-GROUND-GRID	0.000000	0.000000	\$ 186.00	\$ -	0	\$ 186.0000				
C-ACTVTY-DLCRT-POWER-PED	0.000000	0.000000	\$ 75.51	\$ -	0	\$ 75.5131				
C-ACTVTY-DLCRT-REMOTE-DSL-PAD	2.000000	0.000000	\$ 1,952.08	\$ -	39.0461	\$ 2,512.7367				
C-ACTVTY-ROW-PRIVATE	20.000000	0.000000	\$ -	\$ -	0	\$ 1,060.0000				
C-ACTVTY-ROW-PUBLIC	2.000000	0.000000	\$ -	\$ -	0	\$ 106.0000				
C-ACTVTY-SETUP-SITE_SPLICE_C	0.000000	0.000000	\$ -	\$ -	2	\$ 112.2882				
C-ACTVTY-SETUP-TRIP_CHG-USW-UR	0.000000	0.000000	\$ -	\$ -	0	\$ 44.5000				
C-CMNSYS-ACPPED-100-30-PADMTD	1.000000	1.000000	\$ -	\$ -	0	\$ 2,123.3806				
C-COPPER-BURIED-24GA_400PR	0.011200	0.000000	\$ -	\$ -	0	\$ 3.3457				
C-COPPER-BURIED-24GA_50PR	0.007400	0.000000	\$ -	\$ -	0	\$ 0.8360				
C-DLCRT-xxxx-USAM-CAB-16_12S	10.000000	1.000000	\$ -	\$ -	0	\$ 34,780.8687				
C-DLCRT-xxxx-USAM-CAB-16_8S	10.000000	1.000000	\$ -	\$ -	0	\$ 31,409.0987				
C-DSLRT-xxxx-ANK_FRAME	0.000000	0.000000	\$ -	\$ -	0	\$ 231.2880				
C-DSLRT-xxxx-CARD_ADD-48PTS	1.000000	3.000000	\$ -	\$ -	0.0000	\$ 14,489.9086				
C-STRCTR-CONDUIT-1_DUCT_BUR	0.003200	0.000000	\$ -	\$ -	0	\$ 1.0184				
C-STRCTR-INRDUCT-BUR-2DUCT	0.013000	0.000000	\$ -	\$ -	0	\$ 1.4206				
C-XCON-SAI-PED-25PR_BLOCKS	1.000000	0.000000	\$ -	\$ -	0	\$ 170.1100				
Engineering	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)				
Exempt Material	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)				
Installation	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)				
QwestInstallation	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)				
Splicing	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)				
T&T	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)				
X-DSLRT-xxxx-CARD_ADD-48PTS-CAB	2.075134	0.207513	\$ -	\$ -	0	\$ 3,078.8997				