## Released

## From

## Confidential

## Status

Case Numbers: 96-922-TP-UNC

$$
\begin{aligned}
& \text { 96-974-TP-ATA } \\
& \text { 96-1057-TP-UNC }
\end{aligned}
$$

Date: 08/11/2008

# Confidential Documents originally filed 2/20/97- Ameritech Ex 18 Physical Collocation TELRIC 

Tinis is to oprtify that the inngen appearing are an accurate and complete reproduction of case file locument delivered in the regular course of bustnesa rechniaian $\qquad$ Date Processed - 8.11.08.

1. A) Physical Collocation TELRIC
B) Ameritech Ohio Exhibit 18
C) Type 2, 3 and 4 Changes only
2. Tab

## Type Correction

1 All Lines
4
2 All Lines 4
3 All Lines 4
4 Lines $1,3,4,5,6,7,9,11,16,21,22,29,30,31 \quad 4$
NRC Pg. 1 Line $5 \quad 3 \& 4$
NRC Pg. 2 Line B 4
NRC Pg. 8 Line B $\quad 3 \& 4$
NRC Pg. 13 Column C $3 \& 4$
REC Pg. 1 Line 54
REC Pg. 5 Line 3,8 3 \& 4
REC Pg. 7 Line $8 \quad 4$
REC Pg. 8 Line 2,4 3 \& 4
Tab 16.*All 2
3.
A) NRC Page 1, Line 5
B) Volume VIII, pages 45 and 61
C) Corrected to reflect disconnect time separate from installation time.
A) NRC Page 8, Line B
B) Volume XIII, pages 94-95
C) Corrected TPI
A) NRC Page 13, Col C
B) Deposition Volume IV, pages 62-63.
C) Travel times were missing from previous estimate
A) REC Page 5, Line
B) Volume XIII, pages 94-95
C) Corrected TPI
A) REC Page 8, Line
B) Deposition Volume IV, pages 53-54.
C) Annual carrying charge factor corrected.

## AMERITECH - OHIO

## Ameritech Central Office Interconnection (ACOI)

aka

## Physical Collocation

( February 20, 1997 )

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Not to be disclosed to or used by any person without prior authorization.Jurisdiction - Ameritech OhioProduct/Service Name - Physical Collocation (ACOI)Vintage of Study - 1996
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Labor Rate Development ..... 17

## AMERITECH - OHIO

## Ameritech Central Office Interconnection (ACOI)

## Analysis Results

In 1993 a study was developed to support Virtual and Physical collocation. This was done in concurrence with F.C.C. Transmittal No. 697. Subsequently, F.C.C. Transmittals $730,771,819,821,959,981,996$, and 1045 were also issued to support this service. In this updated study, 1993, 1994, and/or 1995 investments were TPI'd to 1996 level. Those investments were hit with ACFs to produce a Telric study. Ameritech - Ohio mirrors the FCC Tariff filing. Attached are the results of that effort.

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PHYSICAL COLLOCATION

| TYPE | NONRECURRING |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | EL |  | $\begin{aligned} & \text { ShARED } \\ & \text { cosTs } \end{aligned}$ |  | COMMNON costs |  | $\begin{aligned} & \text { TOTAL } \\ & \text { costs } \end{aligned}$ |  |
| 1 Order charge / per Order | \$ | 211.83 | \$ | 36.86 |  | 20.64 | \$ | 269.43 |
| 2 C .0 . Floor Space / Per 100 Sq. Ft. |  |  |  |  |  |  |  |  |
| 3 C.O. Build Out / per Init'l 100 Sq. Ft. FI Sp Request, Per C.O. | $\$$ | 25,320.72 | \$ | 4,211.85 | \$ | 2,358.46 | S | 31,891.03 |
| 4 C.O. Build Out / per Add'l. 100 Sq . Ft. FI Sp Request, Per C.O. | 5 | 10,377.96 | \$ | 1,844.37 | \$ | 1,032.77 | \$ | 13,255.10 |
| 5 Cable Vault Splicing / Per Initial Splice | \$ | 155.32 | \$ | 26.36 | + | 14.76 | \$ | 196.44 |
| 6 Cable Vault Splicing / Per Subsequent Splice | \$ | 11.52 | \$ | 1.95 | \$ | 1.09 | \$ | 14.56 |
| 7 Splice Testing / Per Initial Splice Test | \$ | 35.63 | \$ | 6.05 | \$ | 3.39 | \$ | 45.07 |
| 8 Splice Testing / Per Subsequent Splice | \$ | 2.10 | \$ | 0.36 | \$ | 0.20 | \$ | 2.66 |
| 9 Cable Pulling from Manhole to Cable Vault / Per First Foot | \$ | 168.54 | \$ | 28.61 | \$ | 16.02 | \$ | 213.17 |
| 10 Cable Pulling from Manhole to Cable Vault / Per Additional Foot | \$ | 0.84 | \$ | 0.14 |  | 0.08 | \$ | 1.06 |
| 11 Cable Pulling from Cable Vault to the Transmn Node / Per First Ft | \$ | 62.89 | \$ | 10.68 | \$ | 5.98 | \$ | 79.55 |
| 12 Cable Pulling from Cable Vault to the Transmn Node / Per Add'I Ft | \$ | 0.63 | \$ | 0.11 | 5 | 0.06 | \$ | 0.80 |
| 13 Riser Space / Per Foot <br> 14 Entrance Conduit / Per Inner Duct, Per Foot <br> 15 Power Consumption / Per Fuse AMP |  |  |  |  |  |  |  |  |
| 16 Power Delivery / Per Power Lead | S | 1,337.71 | S | 231.58 | \$ | 129.68 | \$ | 1,698.97 |
| 17200 Cond Electrical X-Connect Block / Per X-Connect Block <br> 18 Digital X-Connect Panel (DSX) / Per DSX-3 Termn (1 DS3 Term) <br> 19 Digital X-Connect Panel (DSX) / Per DSX-1 Termn (Up to 56 DS1 Terms) <br> 20 Optical X-Connect Panel (OCX) / Per OCX Panel Segment |  |  |  |  |  |  |  |  |
| 21 Transmission Node Enclosure / Per Initial 100 Sq. Ft. | \$ | 3,594.67 | \$ | 638.85 | \$ | 357.73 | 5 | 4,591.25 |
| 22 Transmission Node Enclosure / Per Add'l. 100 Sq. Ft. | \$ | 1,419.65 | \$ | 252.30 | \$ | 141.28 | \$ | 1,813.23 |
| 23 Passive Bay Termination (includes Bay and Panel) / DS1 Termination <br> 24 Passive Bay Termination (includes Bay and Panel) / DS3 Termination <br> 25200 Cond Elec Term BIk (Outside Transmn Node) / Per termn Block <br> 28 Digital Timing Source / Per Sync Signal Provided <br> 27 DS1 Repeater <br> 28 DS3 Repeater |  |  |  |  |  |  |  |  |
| 29 Diverse Riser / Per Floor Traversed | \$ | 436.80 |  | 77.63 | \$ | 43.47 | \$ | 557.90 |
| 30 Space Reservation / Change - Per Ea. Request | \$ | 541.81 | \$ | 91.97 | \$ | 51.50 | \$ | 685.28 |
| 31 Cancellation Charge | \$ | 3,807.19 | \$ | 558.08 | \$ | 312.50 | \$ | 4,677.77 |



## Tab 10

## Service Description

## (a) Order Charge - Per Order

The Order Charge rate category provides for the processing of the ACOI application associated with a request for Central Office Floor Space within each Central Office and, provides for preliminary work needed to determine if the Central Office Floor Space requested In the customer's ACOI application is available. This charge is not dependent upon the amount of floor space requested. The Order Charge will be applied once per ACOI and includes different aspects of processing of the ACOI application performed by the collocation coordinator, Common System Planning Engineering Center (CSPEC) engineer, real-estate coordinator, service representative and account manager. The cost development relies upon FCC Transmittal No. 981, Exhibit 4, page 1 as its starting point.

## (b) Central Office Floor Space - Per 100 Sq. Ft.

The Central Office Floor Space rate category provides for nominal 100 square foot increments of floor space located in the Central Office equipment areas in Telephone Company designated Central Offices used and occupied by the customer for ACOI. The Central Office Floor Space rate will include the associated environmental supports such as heating, AC power and air conditioning equivalent to the Central Office equipment environment at that lacation. (See answer to MCI Data Request for further details). Transmittal No. 730 removed the passive bay, repeaters and a single termination panel from the Transmittal No. 697 floor space rate element. The passive bay, repeaters and termination panel became optional. Transmittal No. 755 removed cabling from the transmission node to the cross-connect panel and the cross-connection panel from the Transmittal No. 730 rate element. The cost development relies upon FCC Transmittal No. 981, Exhibit 3, page 1 as its starting point.
(c) Central Office Build Out - Per First 100 Sq. Ft. of Floor Space Requested and Per Additional $\mathbf{1 0 0 ~ S q . ~ F t . ~ o f ~ F l o o r ~ S p a c e ~ R e q u e s t e d ~}$

The Central Office Build Out (СОВО) provides for modifications or additions that must be made to the Central Office to accommodate a customer's Transmission Node. These modifications include security devices, additions to and distribution of heating, ventilation and air conditioning, AC power circuit, and necessary space modifications. Included are the required capital costs and operating expenses for installing walls and doors, locks and keys, reconditioning of floors, ovehead lighting, the provisioning of AC power in the customer's space. The initial 100 sq . ft . COBO charge provides for the design, engineering and COBO work required to prepare the initial nominal 100 sq . ft. of Central Office Floor Space ordered. The additional 100 sq. ft. COBO charge provides for the COBO work required to prepare each additional contiguous 100 sq . ft. of Central Office Floor Space requested.

## (d) Cable Vault Splicing - Per Initial Splice and Per Subsequent Splice

The Cable Vault Splicing rate category provides for splicing customer provided outside plant (OSP) fiber optic cable to customer provided riser cable and Telephone Company approved cable in the Central Office cable vault. This rate category is charged in two rate elements: Per Initial Fiber Splice and Per Subsequent Fiber Splice. The initial splice includes the average length of time it takes to set up the splicing site, prepare the sheath and inner case, prepare the splicing unit, and do the actual splice. The additional splice reflects the technician's time to perform an individual splice. A separate Initial Fiber Splice charge will be charged each day that splicing occurs. The cost development relies upon FCC Transmittal No. 697, Appendix 2, page 8 as its starting point.

# Ameritech Central Office Interconnection <br> Rate Element Description 

## (e) Splice Testing - Per Initial Splice Test and Per Subsequent Splice Test

The Splice Testing rate category provides for testing the splice associated with each fiber strand spliced in the Telephone Company cable vault. Splice Testing is charged in two rate elements; Per Initial Splice Tested and Per Subsequent Splice Tested. Each is a nonrecurring charge. A separate Initial Splice Test Charge will be charged each day that splice testing occurs. The initial splice includes the time taken to prepare the site, as well as do the actual test. The additional splice test reflects the technician's time to perform a single splice test. The cost development relies upan FCC Transmittal No. 697, Appendix 2, page 9 as its starting point.

## (f) Cable Pulling form the Manhole to the Cable Vault - Per First Foot and Per Additionai Foot

The Cable Pulling from Manhole to Cable Vault rate category provides for a technician to pull the customer-provided fiber optic cable from the meetpoint in a designated manhole outside the ACOI Central Office to the Central Office cable vault. This rate category is provided on a per initial and additional foot basis, and each rate is a nonrecurring charge. It reflects the time it takes to pull the first foot, and each subsequent foot of cable. Included in the initial foot is the time required to prepare the conduit and remove standing water form the manhole. The cost development relies upon FCC Transmitial No. 697, Appendix 2, page 10 as its starting point.
(g) Cable Pulling form the Cable Vault to the Transmission Node - Per First Foot and Per Additional Foot

The Cable Pulling from Cable Vault to the Transmission Node rate category provides for the a technician to pull the customer-provided flber optic riser cable from the Central Office cable vault to the customer's Transmission Node. This rate category is provided on a per Initial and additional foot basis. The cost development relies upon FCC Transmittal No. 697, Appendix 2, page 11 as its starting point.

## (h) Riser Space - Per Foot

The Riser Space rate category provides for the customer's use of the space and any supporting structures on which the customer's fiber optic riser cable resides, between the Central Office cable vault and the customer's Transmission Node and the fiber optic racking within the Central Office. The cost development relies uponFCC Transmittal No. 697, Reply Comments, WP-3 as its starting point.

## (i) Entrance Conduit - Per Inner Duct, Per Foot

Entrance Conduit facilities provide for the customer's use of conduit duct space between the designated manhole and the Telephone Company cable vault. The rate applies per foot of innerduct provided. The cost of conduit is based on the conduit investment, as well as the contractor's costs for the building of new conduit innerducts. The cost development relies upon FCC Transmittal No. 697, Appendix 2, page 3 as its starting point.

## (j) Power Consumption - Per Fuse Amp

The Power Consumption rate category provides for 48 Volt DC Power to be delivered to the Transmission Node. This rate element is designed to cover the cost of the power consumed by the customer. This rate is applied per Fuse Amp ordered and is a monthly recurring rate. The cost development relies on FCC Transmittal No. 819, Exhibit 3 as its starting point.

## (k) Power Delivery - Per Power Lead

Power Delivery provides for delivery of Telephone Company DC power to one 7 ' Equipment Bay within the customer's Transmission Node. A separate DC Power Delivery connection to the DC Power System is required for each 7' Equipment Bay within the Transmission Node. Power Deliver includes a portion of the Battery Distribution Fuse Board (BDFB), cabling from the BDFB to the Transmission Node and fuses. The Power Delivery nonrecurring rate is applied once per power lead. Each 7' equipment bay may be equipped with up to two power leads. The cost development relies uponFCC Transmittal No. 819, Exhlbit 2, pages 1 and 2 as its starting point.

## (I) 200 Conductor Electrical Cross-Connection Block - Per Cross-Connect Black

The $\mathbf{2 0 0}$ Conductor Cross-Connection Block provides a termination block with a termination field for Telegraph Grade, Voice Grade, Direct Analog or Ameritech Base Rate (2.4, 4.8, 9.6, 56.0 and 64 Kbps ) digital derived channels. Each 200 Conductor Electrical Cross-Connection Block Includes the $\mathbf{2 0 0}$ conductor cross-connection block at the main distribution frame (MDF) plus a portion of the MDF superstructure. The cost development relies upon FCC Transmittal No. 821, Exhibit 5 as its starting point.
(m) Digital Cross-Connection Panel

## - Per DSX-1 Panel (Up to $\mathbf{5 6}$ DS1 Terminations)

The Digital Cross-Connection Panel (DSX) per DSX-1 provides a termination field for 56 DS- 1 or LT1 derived channels. This includes the DSX-1 panel and the terminations on the panel for up to 56 DS-1 terminations. The cost development relies upon FCC Transmittal No. 697, Reply Comments, WP-19 as its starting point.

## - Per DSX-3 Termination

The Digital Cross-Connection Panel (DSX) per DSX-3 termination provides a termination field for DS-3 or LT3 derived channels. This includes a portion of the DSX-3 panel and the terminations on the DSX-3 panel. The investment was apportioned assumed a fully utilized panel. For each DS-3 channel requested in the OLTM System configuration, one DSX-3 termination is required. The cost development relies upon FCC Transmittal No. 730, Exhibit 1, page 8 as its starting point.

## (n) Optical Cross-Connection Panel - Per OCX Panel Segment

The Optical Cross-Connection Panel (OCX) provides a termination field for OC3, OC12 or OC48 derived channels. For each OC-n channel requested in the OLTM System configuration, one OC$n$ termination is required of the same type. The OCX panel is configured in 3 segments with each segment providing a maximum of 24 terminations. The Optical Cross Connection Panel rate includes one segment of an OCX panel. The cost development relies upon FCC Transmittal No. 959, Exhibit 2 as its starting point.
(0) Transmission Node Enclosure - Per First 100 Sq. Ft. Enclosed and Per Additional 100 Sq. Ft. Enclosed

This rate provides for a lockable 8' high wire mesh perimeter security fence with gate to be placed around the customer's Transmission Node. The initial Transmission Node Enclosure charge applies for the first 100 sq. ft. of Central Office Floor Space enclosed. The additional Transmission Node Enclosure applies for enclosing each additional 100 sq . ft . of Central Office Floor Space that is contiguous with the initial 100 sq . ft . of floor space and does not include a gate or any additional engineering. The cost development relies upon FCC Transmittal No. 996, Extibit 2, pages 3 and 4 as its starting point.

## (p) Passive Bay Termination - Per DS-1 Termination

The Passive Bay DS-1 termination provides a portion of the DSX-1 Equipment Bay, DSX-1 Termination Panel and the DSX-1 termination on the panel associated with one DS-1 termination. The cost development relies upon FCC Transmittal No. 730, Exhibit 1, page 2 as its starting point.
(q) Passive Bay Termination - Per DS-3 Termination

The Passive Bay DS-3 termination provides a portion of the DSX-3 Equipment Bay, DSX-3
Termination Panel and the DSX-3 termination on the panel associated with one DS-3 termination. The cost development relies upon FCC Transmittal No. 730, Exhibit 1, page 3 as its starting point.

## (r) 200 Conductor Electrical Termination Block - Per Termination Block

The 200 Conductor Electrical Termination Block rate element provides for a 200 conductor electrical termination block outside the customer's transmission node plus the mounting of the termination block. The 200 Conductor Electrical Termination Block rate is a monthly recurring rate. The cost development relies upon FCC Transmittal No. 821, Exhibit 5 as its starting point.

## (s) Digital Timing Source - Per Sync Signal Provided

The Digital Timing Source rate element Includes a portion of the GPS Receiver utilized to receive the sync signal, the timing signal generator and cabling. The Digital Timing Source charge is a monthly recurring rate applied once per sync signal delivered. The cost development relies upon FCC Transmittal No. 981, Exhibit 3, page 6 as its starting point.

## (t) DS-1 Repeater - Per DS1 Repeater

DS-1 Repeater facillties include the portion of the DS-1 Repeater Bay and DS-1 Repeater Panel associated with one DS-1 circuit and the Repeater itself. The cost development relies upon FCC Transmittal No. 730, Exhibit 1, page 4 as its starting point.
(u) DS-3 Repeater - Per DS3 Repeater

DS-3 Repeater facilities include the portion of the DS-3 Repeater Bay and DS-3 Repeater Panel associated with one DS-3 circuit and the Repeater itself. The cost development relies upon FCC Transmittal No. 730, Exhibit 1, page 5 as its starting point.
(v) Diverse Riser - Per Floor Traversed

The investment for Diverse River consists of material, engineering and labor required to bore a hote through the floor, place a metal conduit sleeve secured with collars in the hole, and seal the sleeve with fire retardant putty. The cost development relies upon FCC Transmittal No. 771, Documentation and \& Justification, page 3 as its starting point.

## (w) Space Reservation Charge - Per Reservation Request

The Space Reservation Charge rate category provides for the processing and maintenance of the customer's space reservation for Central Office Floor Space. The Space Reservation Charge is a nonrecurring charge applied once per Central Office per reservation request. The cost development relies upon FCC Transmittal No. 1045, Exhibit 2 as its starting point.

## ACOI Service Order Charge



## CENTRAL OFFICE BUILD OUT

 INITIAL 100 SQ. FT.Item: COBO - Initial 100 Sq. Ft. Acct: 10C

## A. INVESTMENT



## CENTRAL OFFICE BUILD OUT ADDITIONAL 100 SQ. FT.

Item: COBO - Additional 100 Sq. Ft. Acct: 10C

## A. INVESTMENT


B. TOTAL NRC (Li $\times$ LS) $\$ 10,079.03$

## OPTIONAL COBO <br> INITIAL 100 SQ. FT. (CUST. INST.)

NA

## OPTIONAL COBO <br> ADDL. 100 SQ. FT. (CUST. INST.)

## NA

## Vault Splicing (initial) per Splice



## Splice Test (initial) per Splice



Splice Test (subsequent) per Splice


Cable Pull (manhole to vault) First Foot


## Cable Pull (vault to Transmission node) First Foot



| 1 | Labor Hours per Pull |  |  |  |
| :--- | :--- | :---: | :--- | :--- |
| 2 | Labor Rate | (Tab 16.3) |  | 0.015 |
| 3 | Labor Cost per Add'l Foot |  | (Tab 17) | $\$$ |

## Power Delivery

Item: BDFB Power Delivery
Acct: 10C

## A. INVESTMENT

| 11994 Investment | (Tab 16.4 p 2$)$ | \$ | 1,220.48 |
| :---: | :---: | :---: | :---: |
| 21996 TPI Index | ACAR |  | 127.3 |
| 31994 TPI Index | ACAR |  | $119.5 \pm 3$ |
| 4 TPI Factor | (L2 / L3) |  | 1.0653 |
| 51996 Investment | (L1 $\times$ L4) | \$ | 1,300.18 近 |
| B. TOTAL NRC | (L5) | \$ | 1,300.18 - + |

## TRANSMISSION NODE ENCLOSURE

 INITIAL 100 SQ. FT.Hem: Enclosure - Initial 100 Sq. Ft. Acct: 10C

## A. INVESTMENT


B. TOTAL NRC (LA $\times$ LS) $\$ 3,491.13$

## TRANSMISSION NODE ENCLOSURE ADDITIONAL 100 SQ. FT.

Item: Enclosure - Additional $100 \mathbf{~ S q}$. Ft. Acct: 10C

## A. INVESTMENT

11996 Investment
2 Annual Charge Factor
3 Annual Cost
4 Net Present Value Factor P/A 13.6\% over 7 Yrs.
B. TOTAL NRC
(Tab 16.5 pR) \$ 1,325.00

$$
\text { *, L. } 4 \quad 0.2110
$$

$$
\text { (Lix Li) } \quad \$ \quad 279.58
$$

$$
4.93164
$$

(LU $\times \mathrm{L} 3$ ) $\$ 1,378.76$

## Diverse Riser

## Item: Diverse Riser Per Floor Traversed

 Acct: 10C
## A. INVESTMENT

| 11993 Investment | (Tab 16.6) | \$ | 375.00 |
| :---: | :---: | :---: | :---: |
| 21996 TPI Index | ACAR |  | 127.3 |
| 31993 TPI Index | ACAR |  | 117.1 |
| 4 TPI Factor | (L2/L3) |  | 1.0871 |
| 51986 Investment | (L1 $\times$ L4) | \$ | 407.66 |
| Annual Charge Factor | *, L. 4 |  | 0.211 |
| Annual Cost | (L6 x L7) | \$ | 86.02 |
| Net Present Value Factor (P/A © $13.6 \%$ for 7 yrs.) |  |  | 4.93164 |
| Net Present Value | (L7 $\times$ L.8) | \$ | 424.22 |

## ACOI Space Reservation / Change


*Tab 17
** Tab 16.20


| 1 | Collocation Coordinator | 7 | 2.63 | \$ | 52.69 | \$ | 507.40 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | OSP Engineer | 9 | 0.75 | \$ | 39.11 | \$ | 381.32 |
| 3 | Power Engineer | 8 | 1.5 | \$ | 52.69 | \$ | 500.56 |
| 4 | CSPEC | 7 | 2.42 | \$ | 52.69 | \$ | 496.34 |
| 5 | DTE | 9 | 2.75 |  | 52.69 | \$ | 619.11 |
| 6 | Real Estate | 10 | 2 | \$ | 85.00 | 5 | 1,020,00 |
| 7 | Total Nonrecurring Charge |  |  |  |  | \$ | 3,524.73 |
| 8 |  | **Asbestos Assessment |  |  |  | \$ | 192.01 |
| 9 | GRAND TOTAL NRC |  | $(L 7+L 8)$ |  |  | \$ | 3,716.74 |

*Tab 17
*Tab 16.21

## C.O. FLOOR SPACE

 PHYSICALItem: C.O. Floor Space per 100 Sq . Ft. Acct: 10C

## A. INVESTMENT

1. 1996 Investment
(Tab 16.7) \$ 34,482.16

[^0]
## RISER SPACE

## PHYSICAL

Item: Riser Space per Foot Acct: 10C

## A. INVESTMENT

11993 Investment
21996 TPI Index
31993 TPI Index
4 TPI Factor
51996 Investment
6. Annual Charge Factor
7. Annual Cost
8. Monthly Cost
(Tab 16.8) \$ 55.73
(ACAR) 127.3
(ACAR) 117.1
(L2/L3) 1.0871
(L1 x L4) $\quad$ ) 60.58
*, L. $4 \quad 0.2110$
(L5 x L6) $\quad$ \$ 12.78
(L7/12mos.) \$ 1.07

## Entrance Facility (Conduit)

Item: Entrance Conduit per innerduct foot
Acct: 4C

## A. INVESTMENT



## Power Consumption

| Item: Per Fuse Amp / Lead <br> Acct: NA |  |  |  |
| :---: | :---: | :---: | :---: |
| A. INVESTMENT |  |  |  |
| 1 Voltage Direct Current (VDC) per Fuse Amp | (Tab 16.10) |  | 0.0521 |
| 2 Annual KWH's | (24 $\times 365$ ) |  | 8,760 |
| 3 Average Cost per KWH | (Tab 16.10) | \$ | 0.10 |
| 4 Basic DC Power Cost | (L1xL2xL3) | \$ | 45.64 |
| 5 Incremental Air Conditioner |  |  |  |
| Power Cost | (Tab 16.10) | \$ | 15.06 |
| 6 Total annual DC Power Cost per Fuse Amp | $(L 4+L 5)$ | \$ | 60.70 |
| 7 Total Monthly DC Power Cost per Fuse Amp | (L6/12mos) | \$ | 5.06 |

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## 200 Conductor

# Hem: 200 Conductor - Per Block (Same as Optional Feature-Outside node) <br> Acct: 357C with pwr \& f.s. 

## A. INVESTMENT



## DSX Per DS-3 Term

## Item: DS-3 Termination <br> Acct: 357C with pw \& f.s.

## A. INVESTMENT



## DSX Per DSX-1 Panel

## Item: DSX per DSX-1 Panel (56 DS-1 Terms) Acct: 357C with pwr \& f.s.

## A. INVESTMENT

| 11993 Investment | (Tab 16.13) | \$ | 1,739.00 |
| :---: | :---: | :---: | :---: |
| 21996 TPI Index | (ACAR) |  | 98.7 |
| 31993 TPI Index | (ACAR) |  | 102.2 |
| 4 TPI Factor | (L2 / L3) |  | 0.9658 |
| 51996 Investment | (L1 $\times$ L4) | \$ | 1,679.53 |
| 6 Annual Charge Factor | *, L. 14 |  | 0.3916 |
| 7 Annual Cost | ( $1.5 \times 1.6)$ | \$ | 657.70 |
| 8 Monthly Cost | (L7/12mos) | \$ | 54.81 |

## Optical X-Conn. Panel

Item: Optical Cross Connect Panel (OCX)
Acct: 357C with pwr \& f.s.
A. INVESTMENT

| 1 | 1996 Investment | (Tab 16.14) | $\$$ |
| :--- | :---: | :---: | :---: |
| 2 Annual Charge Factor | , L.14 | 220.85 |  |
| 3 Annual Cost | (Li $\times$ L2) | $\$$ | $0.3916 \pm .48$ |
| 4 Monthly Cost | (L3/12mos) | $\$$ | $7.21 \mp+4$ |

PASSIVE BAY DS-1 TERM
PHYSICAL
Item: DS1 Termination (Passive Bay)
Acct: 357C with pwr \& f.s.
A. INVESTMENT

| 11993 Investment | (Tab 16.15) | \$ | 22.39 |
| :---: | :---: | :---: | :---: |
| 21996 TPI Index | (ACAR) |  | 98.7 |
| 31993 TPI Index | (ACAR) |  | 102.2 |
| 4 TPI Factor | (L2/L3) |  | 0.9658 |
| 51996 Investment | (L1 $\times$ L4) | \$ | 21.62 |
| 6. Annual Charge Factor | *, L. 14 |  | 0.3916 |
| 7. Annual Coat | (L5 x L6) | \$ | 8.47 |
| 8. Monthly Cost | (L7/12mos.) | \$ | 0.71 |

## PASSIVE BAY DS-3 TERM

## PHYSICAL

Itern: DS3 Termination (Passive Bay) Acct: 357C with pwr \& f.s.
A. INVESTMENT

| 11993 Investment | (Tab 16.16) | \$ | 285.67 |
| :---: | :---: | :---: | :---: |
| 21996 TPI Index | (ACAR) |  | 98.7 |
| 31993 TPI Index | (ACAR) |  | 102.2 |
| 4 TPI Factor | (L2/L3) |  | 0.9658 |
| 51996 Investment | (L1 $\times$ L4) | \$ | 275.90 |
| 6. Annual Charge Factor | *, L. 14 |  | 0.3916 |
| 7. Annual Cost | (L5 x L6) | \$ | 108.04 |
| 8. Monthly Cost | (L7 / 12mos.) | \$ | 9.00 |

DIGITAL TIMING
PHYSICAL
Item: Digital Timing Source per Sync Signal ProvidedAcct: 357C with pw r \& f.s.
A. INVESTMENT
11996 Investment ..... (Tab 16.17) \$ 484.95
21996 Investment (Li) \$ ..... 484.95
3. Annual Charge Factor *, L. 14 ..... 0.3916
4. Annual Cost
(Lu $\times$ LD) $\$ 189.91$
5. Monthly Cost(L4/12mos.) \$ 15.83

## DS1 REPEATER

Item: DS1 Repeater Acct: 357 C with pw \& f.s.

## A. INVESTMENT



## DS3 REPEATER

Item: DS3 Repeater
Acct: 357C with per \& f.s.

## A. INVESTMENT



TELRIC
13.6 \% C.O.M.

ECONS ANNUAL CHARGE FACTORS

| Line No. 1 | Account 1C | Description Poles | $\begin{aligned} & \text { A.C.F. } \\ & 0.2210 \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| 2 | 4C | Conduit | 0.1830 |
| 3 | 5C | UG Cable - Met | 0.2795 |
| 4 | 10C | Bulldings | 0.2110 |
| 5 | 12C | Intra-bldg Cable - Met | 0.2912 |
| 6 | 22C | Aerial Cable - Met | 0.3401 |
| 7 | 45C | Buried Cable - Met | 0.3123 |
| 8 | 85C | UG Cable - NonMet | 0.2490 |
| 9 | 117C | Operator Systems |  |
| 10 | 117C-WP | Operator Systems | 0.3542 |
| 11 | 257C | Subscriber Pair Gain |  |
| 12 | 257C-WP | Subscriber Pair Gain | 0.3930 |
| 13 | 357C | Digital Circuit |  |
| 14 | 357C-WP | Digital Circuit | 0.3916 |
| 15 | 361C | General Purpose Computers | 0.3341 |
| 16 | 377C | Digital Switch - STP |  |
| 17 | 377C-WP | Digital Switch - STP | 0.4655 |
| 18 | 577C | Packet Switch Network |  |
| 19 | 577C-WP | Packet Switch Network |  |
| 20 | 812C | Intra-bldg Cable - NonMet |  |
| 21 | 822C | Aerial Cable - NonMet | 0.2611 |
| 22 | 845C | Buried Cable - NonMet | 0.2439 |

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Tab 17

## Labor Rate Development

| 1996 |  |  |  |
| :---: | :---: | :---: | :---: |
| Work Group | AC/JFC | Labor Rate | Source |
| Collocation |  |  |  |
| Coordinator | 3111 | \$52.69 | ACAR |
| OSP Engr. | 3230 | \$39.11 | ACAR |
| Power |  |  |  |
| Engineer | 3144 | \$52.69 | ACAR |
| CSPEC | 3141 | \$52.69 | ACAR |
| DTE | 3170 | \$52.69 | ACAR |
| Real |  |  |  |
| Estate | Engineers | \$85.00 | Corporate Real Estate |
| Real |  |  |  |
| Estate | ASC employees | \$65.00 | Corporate Real Estate |
| Account Mgr |  |  |  |
| Supervisor IIS | 236X | \$50.55 | Labor Rate Developer (PPO) |
| Service Rep. IIS* (Incremental for Connect) | 236X | \$26.17 | Labor Rate Developer (PPO) |
| Splicing | P422X | \$40.77 | ACAR |
|  | 1999 |  |  |
| Service Rep. MS* | 236X | \$35.08 | ACAR |
| (Directly Assigned for Disc | onnect) |  |  |

*Wisconsin Rates Used


## AMERITECH CENTRAL OFFICE INTERCONNECTION ORDER CHARGE

| Work <br> Group <br> (A) |  | Travel Time (hour) (C) | Total <br> Time (hour) $0=(B+C)$ | 1996 <br> Labor <br> Rate (per hour) <br> ( | Total NRC $F=\left(D^{\prime} E\right)$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Collocation Coordinator | 1 | 0 | 1 | \$53.89 | 533.89 |
| CSPEC | 1 | 0 | 1 | \$33.69 | \$83.69 |
| Real Estate | 1 | 0 | 1 | 585.00 | 505.00 |
| Account Manager | 0.25 | 0 | 0.25 | se282 ${ }^{\circ}$ | \$15.71 |
| Service Representative | 0.75 | 0 | 0.75 | \$34.89 | \$28.17 |

## ORDER EXPENSE

$\$ 214.26$

GROSS RECEIPTS TAX
TOTAL ORDER EXPENSE
58.90
523.18

ORDER CHARGE
$\$ 353.53$

Tab 16.2 p. 1

OHIO
CO
PRELIMINARY ENGINEERING - COBS (Pere Construction)


## Asbestos Assessment $\$ 991.00$

Weighting:

T.6 16.2 pas

ACOI
PROJECT MST. FEE - DESIGN FIRM ORDER (COBS)


Preliminary Engineering: (A) 3 3,716.74

Deacon Firm Order: (B)


Tab. 16.3 pg 1

AMERITECH CENTRAL OFFICE INTERCONNECTION VAULT SPLICING (INITIAL) PER SPLICE

1 SPLICE CASE COST PER SPLICE

2 SPLICE TRAY COST PER SPLICE

3 TOTAL MATERIAL COST (L1+L2)

4 LABOR HOURS PER SPLICE

5 IMCRBIEAYAL LABOR PATE

6 LABOR COST PER SPLICE (L4*L5)

7 TONAL COST PER SPLICE (L3+L6)

VAULT SPLICING (SUBSEQUENT) PER SPLICE

1 SPLICE CASE COST PER SPLICE

2 SPLICE TRAY COST PER SPLICE

3 TOTAL MATERIAL COST (L1+L2)

4 LABOR HOURS PER SPLICE

5 INCREMENTAL LABOR RATE

6 LABOR COST PER SPLICE (L4*LS)
7 TOTAL COST PER SPLICE (L3+L6)

APPENDIX 2 PAGE 8 OF 12

2.95
3.63
32.92
$\$ 119.32$
\$122. 27
VAULT SPLICING (SUBSEQUENT) PER SPLICE
1 SPLICE CASE COST PER SPLICE
2 SPLICE TRAY COST PER SPLICE
3 TOTAL MATERIAL COST (L1+L2)
4 LABOR HOURS PER SPLICE
5 INCREMENTAL LABOR RATE
6 LABOR COST PER SPLICE (L4*LS)
7 TOTAL COST PER SPLICE (L3+L6)
Tab 16.3 .99 .2

Trans.

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697
$$

AMERITECH CENTRAL OFFICE INTERCONNECTION SPLICE TEST (INITIAL) PER SPLICE

APPERTIIX 2 PAGE 9 OF 12

1 LABOR HOURS PER SPLICE2 INCREMENTAL LABOR RATE32.92
3 LABOR COST PER SPLICE (L1*L2) ..... \$27.98
SPLICE TEST (SUBSEQUENT) PER SPLICE
1 LABOR HOURS PER SPLICE
2 INCREMENTAL LABOR RATE

$$
32.92
$$ ..... 32.92

3 LABOR COST PER SPLICE (L1*L2) ..... $\$ 1.65$
32.92$\$ 0.05$

Tab/6.3 pg 3
AMERITECH CENTRAL OFFICE INTERCONNECTION CABLE PULL (MANHOLE TO VAULT) FIRST FOOT

1 LABOR HOURS PER PULL

2 INCRMIENTAL LABOR RATE

3 LABOR COST PER PULL FOR 1ST FT. (L1*L2)

CABLE PULL (MANHOLE TO VAULT) ADDITIONAL FOOT

1 LABOR EOOURS PER PULL
2. INCREMENTIAL LABOR RATE

3 LABOR COST PER PULL FOR 1ST FT. (L1*L2)

APPENDIX 2 PAGE 10 OF 12

697

Truns.

$$
\text { Tab } / 6.3 \mathrm{pq} 4
$$

## MMERITECH CENTRAI OFFICE INTERCONNECTION CABLE PULL (VAULT TO TRANSMISSION NODE) FIRST FOOT

1 LABOR HOURS PER PULL

2 INCREMENTAL LABOR RATE

3 LABOR COST PER PULL FOR 1ST FT. (L1*L2)

## CABLE PULL (VAULT TO TRANSMISSION NODE) ADDITIONAL FOOT

1 LABOR HOURS PER PULL
2. INCREMINTAL LABOR RATE
$\$ 32.92$

3 LABOR COST PER PULL FOR 1ST FT. (L1*L2)
$\$ 0.49$

# VIRTUAL INTERCONNECTION COST SUPPORT POWER BDFB INFRASTRUCTURE 

Trans

TOTAL
installed
COST

SECONDARY BDFB $\quad \mathbf{\$ 9 , 5 7 5 . 0 7}$
80 OF SECONDARY CABLE RACK WISUPPORT $\quad 37,846.00$
I00 OF NO. 1/0 CABLE FOR GROUNDING 9996.00
GROUNDING CABLERACK $\quad \mathbf{s 2 , 0 1 5 . 0 0}$
TOTAL
\$20,432.07
(...90\% OF LAR SIZE OFFICES THAT HAVE THIS ARRANGEMENT)
$\$ 18,398.86$

```
MEDIUM OFCS.
SECONDARY INFRASTRUCTURE
```

SECONDARY BOFB $\quad \mathbf{3 7 , 3 4 9 . 0 7}$
40 OF SECONDARY CABLE RACK WISUPPORT $\mathbf{3 5 , 2 1 0 . 0 0}$
$1000^{\circ}$ OF NO. 10 CABLE FOR GROUNDING
$\$ 996.00$
GROUNDING CABLE RACK $\mathbf{\$ 2 , 0 3 6 . 0 0}$
TOTAL
$\$ 15,581.07$
( $: 10 \%$ OF MED. SIZE OFFICES THAT HAVE THIS ARRANGEMENT) \$1.589.11
TOTAL LARGE ORCS
\$18,388.86
TOTAL MEDIUM OFFS
GRAND TOTAL
\$1.559.11
315,947.97

MAXIMUM NUMBER OF FUSE POSITIONS IN BDFB IS 200
GRAND TOTAL 1200 FUSE POSITIONS = PER FUSE POSITION
599.74

FUSE POSITION $\times 2$ =
ADDITIONAL AND POWER CABLE REQ. FOR EACH FUSE POS. ABB LOAD TOTAL NONRECURING COST
FPC FACTOR = ..... 1.58
TOTAL NON-RECURRING CHARGE FOR 2FUSE POSITIONS \& ..... \$1,928.36

VIRTUAL INTERCONNECTION COST SUPPORT POWER BDFE INFRASTRUCTURE SUMMARY
TOTALINSTALLEDcost
SECONDARY INFRASTRUCTURE INCLUDES:
SECONDARY BDFB
SECONDARY CABLE RACK WISUPPORT
100 OF NO. 1/0 CABLE FOR GROUNDINGGROUNDING CABLE RACK
TOTAL COST ..... \$19,947.97
GRAND TOTAL 200 FUSE POSITIONS = PER FUSE POSITION ..... $\$ 99.74$
FUSE POSITION $\times 2$ = ..... $\$ 109.48$ADDITIONAL AND POWER CABLE REQ. FOR EACH FUSE POS. A\&B LOADFPC FACTOR :31,021.00
TOTAL NONRECURRING COST$(11,220.4)$1.58
TOTAL NONRECURRING CHARGE FOR 2FUSE POSITIONS \& ..... 31,928.36 associated cable

# AMERITECH CENTRAL OFFICE INTERCONNECTION TRANSMISSION NODE ENCLOSURE PER NITA 

TOTAL INVESTMENT $\$ 3,355.00$
DEPRECIATION$\$ 78.17$
COST OF MONEY ..... $\$ 288.87$
income tax ..... $\$ 136.88$
MAINTENANCE ..... $\$ 104.01$
AD VALOREM TAX ..... $\$ 29.19$
TOTAL ANNUALIZED COST ..... $\$ 637.12$
NET PRESENT VALUE ( PIA 11.5\% OVER 7 YRS.) ..... \$3,294.10
GROSS RECEIPTS TAX ..... $\$ 136.89$
TOTAL TRANSMISSION NODE ENCLOSURE COST ..... $\$ 3,430.99$
TRANSMISSION NODE ENCLOSURE CHARGE ..... $\$ 5,435.27$
DIRECT UNIT COST TO UNIT INVESTMENT RATIO ..... 1.02
DIRECT UNIT COST TO UNIT PRICE RATIO ..... 0.63

# AMERITECH CENTRAL OFFICE INTERCONNECTION TRANSMISSION NODE ENCLOSURE PER ADDITIONAL 

TOTAL INVESTMENT
DEPRECIATION
$\$ 1,325.00$
$\$ 30.87$
COST OF MONEY ..... $\$ 114.08$
INCOME TAX ..... $\$ 54.06$
MAINTENANCE ..... $\$ 41.08$
AD VALOREM TAX ..... $\$ 11.53$
TOTAL ANNUALIZED COST ..... $\$ 251.62$
NET PRESENT VALUE ( P/A 11.5\% OVER 7 YRS.) ..... $\$ 1,300.95$
GROSS RECEIPTS TAX ..... $\$ 54.06$
TOTAL TRANSMISSION NODE ENCLOSURE COST ..... \$1,355.01
TRANSMISSION NODE ENCLOSURE CHARGE ..... \$2.146.57
DIRECT UNIT COST TO UNIT INVESTMENT RATIO ..... 1.02
DIRECT UNIT COST TO UNIT PRICE RATIO ..... 0.63

Tab /6.6

AMERITECH INTERCONNECTION

|  | AMERITECH |
| :--- | ---: |
| TOTAL INSTALLED INVESTMENT | $\$ 500.00$ |
| AVERAGE\% OCCUPANCY BY CUSTOMER | $\mathbf{7 5 \%} /$ |
| INVESTMENT ATTRIBUTED TO CUSTOMER | $\$ 375.00$ |

ESTIMATED RECURRING COSTS:
Depreciation ..... $\$ 16.91$
Cost of Money ..... 29.29
Income Tax ..... 13.08
Maintenance ..... 5.25
Adininistrative Overhead ..... 0.00
incremental Expense ..... 0.00
Other Recurring Expense ..... 0.00
Ad Valorem Tax ..... 4.80
Cross Receipts Tax ..... 1.12
Total Annual Cost: ..... $\$ 70.45$
Total Demand Weighted Annual Amount (including 1.58 Loading Factor ..... \$112.27
Total PV ..... $\$ 442.21$
Total Non-recurring Rate
Per Customer Per Floor Traversed ..... $\$ 442.21$
Ratio Direct Cost to Direct Investment ..... 0.1879

# AMERITECH CENTRAL OFFICE INTERCONNECTION Central Office Floor Space 

TOTAL INVESTMENT
$\mathbf{\$ 3 4 , 4 8 2 . 1 6}$ ..... *
RECURRING COSTS
Depreciation ..... $\$ 803.43$
Cost of Money ..... \$2,968.91
Income Tax ..... \$1,406.87
Maintenance ..... \$1,068.95
Other Recurring Expense ..... \$1,094.40
Ad Valorem Tax$\$ 299.99$
Total Annual Cost ..... \$7,642.55
Monthly Cost ..... $\$ 636.88$
Gross Receipts Tax ..... $\$ 26.47$
Total Monthly Cost ..... $\$ 663.35$
Central Office Floor Space Monthly Rate$\$ 1,050.85$
Direct Unit Cost to Unit Investment Ratio ..... 0.02
Direct Unit Cost to Unit Price Ratio ..... 0.63

* Notes: 1485 In w: 33400

2) 1946 T PI Tad. ..... 127.3
3) 1445 TPI IN 世. 123.3
-) TPI Factor (42/43) 1.0.324
4) 1996 InN ..... 34482.16

# 697 <br> Reply Commex <br> DEVEIOPMENT OF RISER COSTS FOR PHYSICAL INTERCONNECTION 

|  |  | investydat DEVELOPMENT <br> (A) | ANTUAL CHARGE pactors (B) | $\begin{gathered} \text { ANMUAL } \\ \text { COSTS } \\ C=A * B \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| 1 | IMVESTHIMNT IN RISER SPACE (SOORCE: VENDOR ESTINATES) | \$4,000 |  |  |
| 2 | CABLES PER RISER SPACE | 160 |  |  |
| 3 | RISIR INV. PLR CABLE (L1/L2) | \$25 |  |  |
| 4 | AVE DISTANEE PER FLOOR (FEET) | 25 |  |  |
| 5 | average no. of floors | 3 |  |  |
| 6 | RISER INV. PIR FT. (L3/(Li*LS)) | \$0.56 |  |  |
| 7 | RACKING INVESTHINTI PER FOOT | \$80 |  |  |
| 8 | AVG. NO. CUSTORE'S PRR C.O. | 2.45 |  |  |
| 9 | RACEING INV PER FT. PER CUST. (LT/Ls) | \$55.17 |  |  |
| 10 | TOANL EMVESMIENTS PER FT. (L6+L9) | \$55.73 |  |  |
| 11 | TATHMATHETHEX FACTOR (TPI) | 0.99 |  | - |
| 12 | 1993 IbNuextic TOTAL INV. PER FT. (L11-L12) | \$55.17 |  |  |
| 13 | COST OF MOMEX |  | 0.046243 | \$2.5! |
| 14 | INCOLE TAX |  | 0.018188 | 1.0: |
| 15 | DEPRECIATION EXPEASE |  | 0.167100 | 9.2: |
| 16 | Matirientarce expenise |  | 0.015345 | 0.8 : |
| 17 | AD VaLorev tax |  | 0.009030 | 0.5 |
| 18 | GROSS RECRIFIS TAX ( L 13 C THRU LI7C)* | L18B) | 0.013458 | 0.1 |
| 19 | TOMAL ANNOLL COSTS PLP FF. (LL3 THRO | L18) |  | 14.3 |
| 20 | TOTNL MONTHILY COST PER FT. (219/12) |  |  | 1.1 |
|  | NOTE: RACXING INV. OF $\$ 80.00 /$ FT. CONS | ISTS OF: |  |  |
|  | METMHARING COST: $\$ 20.00 /$ FT <br> IXSTMITATION COST: \$40.00/FT <br> MRTERIAL COST: <br> $\$ 20.00 / \mathrm{FP}$ | SOURCE: VENDOR SOURCE: VEADOR SOURCE: VATDOR | $\begin{aligned} & \text { Esyinates } \\ & \text { EsTMrares } \\ & \text { Estinter } \end{aligned}$ |  |

# 697 <br> AMERITECH CENTRAL OFFICE INTERCONNECTION ENTRANCE CONDUIT - PER INNERDUCT FT. <br> APPENDIX 2 PAGE 3 OF 12 

COST OF MONEY 0.28

INCOME TAX
0.11

DEPRECIATION EXPENSE 0.06

MAINTENANCE EXPENSE 0.02

AD VALORBE TAX 0.03

GROSS RECEIPTS TAX 0.01

ANNUAL COST PER IMNERDUCT FT. 0.51

MONTELY COST PER INAERDUCT FT. 0.04

Tab. 16.10
Traus. 8/9

## AMERITECH VIRTUAL INTERCONNECTION POWER CONSUMPTION <br> PER FUSE AMP

RECURRING COSTS
1 VOLTAGE DIRECT CURRENT NDC) PER FUSE AMP
2 ESTIMATED ANNUAL KILOWATT HOURS (KWH) ..... 8,760
3 AVERAGE COST PER KWH50.10
4 BASIC DC POWER COST (R142"L3) ..... $\$ 45.62$
5 NNCREMENTAL AIR CONDITIONER POWER COST ..... $\$ 15.08$
6 TOTAL ANNUAL DC POWER COST PER FUSE AMP (L4+LS) ..... 580.68
7 TOTAL MONTHLY DC POWER COST PER FUSE AMP (LE/12) ..... $\$ 5.06$
8 1 UTAL COST ( $27 \times 1.58$ FDC FACTOR) $=$ RATE ..... $\$ 7.99$

## Tab. /be/

200 CONDUCTOR ELECTRICAL CROSS CONNECTION BLOCK
INVESTMENT2,505.02
DEPRECIATION$\$ 271.11$
COST OF MONEY$\$ 157.86$
INCOME TAX$\$ 66.93$
MAINTENANCE$\$ 170.20$
AD VALOREM TAX$\$ 17.09$
TOTAL ANNUAL COST ..... $\$ 683.18$
TOTAL MONTHLY COST ..... $\$ 56.93$
OVERHEAD FACTOR ..... 1.58
TOTAL MONTHLY COST PER CROSS-CONNECTION BLOCK ..... $\$ 89.95$
CROSS CONNECT SERVICE 2-WIRE XCONN.
INVESTMENT ..... $\$ 5.93^{*}$
DEPRECIATION ..... 50.64
COST OF MONEY ..... $\$ 0.37$
INCOME TAX ..... $\$ 0.16$
MAINTENANCE ..... $\$ 0.40$
AD VALOREM TAX ..... $\$ 0.04$
TOTAL ANNUAL COST ..... $\$ 1.61$
TOTAL MONTHLY COST ..... $\$ 0.13$
OVERHEAD FACTOR ..... 1.58
TOTAL MONTHLY COST PER 2-WIRE X-CONN ..... $\$ 0.21$

Trans

|  | INVESTMENT <br> (A) | ANNUAL CHARGE FACTOR (B) | costs <br> (C) |
| :---: | :---: | :---: | :---: |
| 1 DSX-3 PANEL INVESTMENT | \$297.46 |  |  |
| 2 DSX-3 TERM. PANEL INVESTMENT 24 TERMS. | \$14,015.14 |  |  |
| 3 DSX-3 TERMINATIONS PER PANEL | 24 |  |  |
| 4 TOTAL DSX-3 TERMINATION PANEL INV PER TERMINATION ( $\mathrm{L} 1+\mathrm{L} 2$ ) H 3 | $\$ 596.3$ |  |  |
| 5 C.O. DIG. TEL PLT INDEX | 0.99 |  |  |
| 6 ADJUSTED TOTAL DSX-3 POINT OF TERMINATION INV | \$590.39 |  |  |
| 7 COST OF MONEY |  | 0.046009 | \$27 |
| 8 InCOME TAX |  | 0.018448 | \$10 |
| 9 DEPRECIATION EXP |  | 0.167100 | \$98 |
| 10 Maintenance exp |  | 0.016905 | 59 |
| 11 ad valorem tax |  | 0.008103 | 34 |
| 12 GROSS RECEIPTS TAX (LRC THRU L12C)*13B |  | 0.011698 | \$1 |
| 13 TOTAL ANNUAL COSTS PER DSX-3 POINT OF TERMINATION | (LA THRUL13) |  | \$158 |
| 14 TOTAL MONTHLY COSTS PER DSX-3 TERMINATION (L14/12) |  |  | \$12 |
| 15 FDC FACTOR |  |  | 1 |
| 16 FDC COST PER DSX-3 TERMINATION (L15 * L16) |  |  | \$2t |

$$
T 46.16 .13
$$

gevelomemp of conatctio viRTial ds-1 bigital cheas commet pant cost


# VIRTUAL INTERCONNECTION OPTICAL CROSS-CONNECT PANEL(OCX) 

AMERTECH
INVESTMENT
MONTHLY COSTS
1.58
ADC FACTOR
MONTHLY RATE 10.78

## T4b.16.15

|  | INVESTMENT (A) | ANNUAL CHAAGE FACTOR <br> (B) | COSTS <br> (C) |
| :---: | :---: | :---: | :---: |
| 1 DS-1 TERMINATION PANEL INVESTMENT | \$1,138.00 |  |  |
| 2 POINT OF TERMINATION BAY INVESTMENT | \$1,271.52 |  |  |
| 3 DS-ITERMINATION PANELS PER BAY | 11 |  |  |
| 4 DS-1 TERMINATIONS PER PANEL. | 56 |  |  |
| 5 OS-1 TEMINATION PANEL INV PER TERMINATION (11/4) | \$20.32 |  |  |
| 6 DS-1 POINT OF TERMINATION BAY INVESTMENT PER TERMINATION ((L2R3)/L4) | \$2.06 |  |  |
| 7 TOTAL DS-1 POINT OF TERMINATION INV (L5+ L6) | $\$ 22$ |  |  |
| 8 C.O. dig. TEL PLT INDEX | 0.99 |  |  |
| 9 ADJUSTED TOTAL OS-1 POINT OF TERMINATION INV | \$22.16 |  |  |
| 10 COST OF MONEY |  | $0.046009$ | \$1.6 |
| 11 INCOME TAX |  | 0.018448 | 50. |
| 12 depreciation exp |  | 0.167066 | \$3.: |
| 13 ManNTENANCE EXP |  | 0.016905 | 50. |
| 14 AD VALOREM TAX |  | 0.008103 | \$0. |
| 15 GROSS RECEIPTS TAX ( $L 10 C$ THRU L14C)*15B |  | 0.010407 | so. |
| 16 TOTAL ANNUAL COSTS PER DS-1 POINT OF TERMINATION (L10 THRU L15) |  |  | \$5. |
| 17 TOTAL MONTHLY COSTS PER OS-1 TERMINATION (L16/12) |  |  | \$0 |
| 18 FDC FACTOR |  |  | 1 |
| 19 FDC COST PER DS-1 TERMINATION (L17* L18) |  |  | \$0 |

Jab. 16.16


Trans. 981
Exhibit 3
Page 6 of 8

# AMERITECH CENTRAL OFFICE INTERCONNECTION DIGITAL TIMING SOURCE 



$$
\begin{aligned}
& \text { * Note } 557.30 \text { Includes investment in } \\
& \text { power floor space. }
\end{aligned}
$$

557.30

$$
\frac{-72.35}{484.95} \text { (Inn in power! ts.) }
$$

OEVELOPMENT OF AMERITECH DS-1 REPEATER COSTS
Tab. 16.18

1 DS- 1 REPEATER INVESTMENT
2 REPEATER BAY INVESTMENT
3 DS-1 REPEATER PANELS PER REPEATER BAY
4 DS-1 REPEATERS PEA PANEL.
5 REPEATER BAY INV PER REPEATER (L2/L3)/L4)
6 REPEATER PANELINESTMENT
7 REPEATER PANEL INVESTMENT PER REPEATER (L6/L14)
8 TOTAL DS-1 REPEATER NV
$(1+L 5+17)$
9C.O. DIG. TEL PLTINDEX
10 ADIUSTEO TOTAL DS-1 REPEATER INV
11 COST OF MONEY
12 INCOME TAX
13 DEPRECUATION EXP
14 MANTENANCE EXP
15 AD VALOAEM TAX
16 CROSS RECEPTS TAX ( 1 IT1C THRU L15C)*168
17 TOTAL ANMUAL COSTS PER DS-1 REPEATER (LI1 THRU L16)
18 TOTAL MONTHLY COSTS PER DS-1 REPEATER (L17/12)
19 FDC FACTOR
0.046009
0.018448
0.167066
0.016905 03.90

20 FDC COST PER OS-1 REPEATER (L18 * L19)

Trans. 730 EXHIEIT 1 PAGE 4 OF 8

| 766.16.18 | INVESTMENT (A) | ANNUAL CHARGE FACTOR <br> (B) | COSTS <br> (C) |
| :---: | :---: | :---: | :---: |
| 1 DS-1 REPEATER INVESTMENT | \$209.16 |  |  |
| 2 REPEATER BAY INVESTMENT | \$7,788.52 |  |  |
| 3 DS-1 REPEATER PANELS PER REPEATER BAY | 12 |  |  |
| 4 DS-1 REPEATERS PEA PANEL | 28 |  |  |
| 5 REPEATER BAY INV PER REPEATER ((L2/3)/L4) | \$23.18 |  |  |
| 6 REPEATER PANELINVESTMENT | \$24.50 |  |  |
| 7 PEPEATER PANELINVESTMENT PER REPEATER (L6L14) | $\$ 0.88$ |  |  |
| a TOTAL DS- 1 REPEATER NN $(L 1+L 5+L 7)$ | \$ $\$ 233.2$ |  |  |
| 9 C.O. DIG. TEL PLT INDEX | 0.98 |  |  |
| 10 ADUUSTED TOTAL DS-1 REPEATER INV | 520.88 |  |  |
| 11 COST OF MONEY |  | 0.046009 | \$10.68 |
| 12 INCOME TAX |  | 0.018448 | 34.26 |
| 13 DEPRECUTION EXP |  | 0.187066 | \$88.57 |
| 14 MANTENANCE EXP |  | 0.016905 | 33.90 |
| 15 AD VALOAEM TAX |  | 0.008103 | \$1.87 |
| 16 CROSS RECETPTS TAX ( $1.11 C$ THRU L15C)*168 |  | 0.010407 | 50.62 |
| 17 TOTAL ANRUAL COSTS PER DS-1 REPEATER (L11 THPU L16) |  |  | \$59.85 |
| 18 TOTAL MONTHLY COSTS PER DS-1 REPEATER (L17/12) |  |  | \$4.99 |
| 19 FDC FACTOR |  |  | 1.58 |
| 20 FDC COST PER OS-1 FEPEATER (L18 * L19) |  |  | \$7.88 |

Tab. 16.19

1 DS-3 REPEATEA INVESTMENT
2 REPEATER BAY INVESTMENT
3 DS-3 REPEATER PANELS PER REPEATER BAY
4 DS-3 REPEATERS PER PANEL
5 DS-3 REPEATER BAY INV PER REPEATER ((L2/L3)/L4)
6 DS-3 REPEATER PANEL INVESTMENT
$\$ 101.40$
7 DS-3 REPEATER PANELINVESTMENT PER REPEATER (L6/L14)
8 TOTAL DS-3 REPEATERINV $(L 1+L 5+L 7)$
g C.O. DIG. TEL PLT INDEX
10 ADIUSTED TYTAL DS-S REPEATERINN
11 COST OF MONEY
12 aNCOME TAX
13 OEPRECLATION EXP
14 MANTENANCE EXP
15 AD VALOREM TAX
16 GROSS RECEIPTS TAX (LIIC THRU L15C)*168
17 TOTAL ANNUAL COSTS PER DS-3 REPEATER (LII THRU L16)
$0.046009 \quad \$ 61.64$
$\$ 1,339.76$

18 TOTAL MONITLY COSTS PER DS-3 REPEATER (L17/12) \$28.9.
19 FDC FACTOR 1.5 :
20 FDC COST PER DS-3 REPEATER (L18 * L19)

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T a l 14.20
$$

## AMERITECH CENTRAL OFFICE INTERCONNECTION space reservation charge



## AMERITECH CENTRAL OFFICE INTERCONNECTION CANCELLATION CHARGE




| Sub-Total Labor Expense | $\$ 3.639 .72$ |  |
| :--- | ---: | ---: |
| Welonted Average Abestos Assessmem |  | $\$ 192.01$ |
| CANCELLATION EXPENSE |  | $\$ 3.031 .73$ |
| GROSS RECEIPTS TAX | $\ddots$ | $\$ 159.23$ |
| TOTAL CANCELLATION EXPENSE |  | $\$ 3,090.98$ |
| CANCELlATION CHARGE |  | $\$ 8.322 .35$ |


[^0]:    * = Tab "ECONS-ACFs"

    ACAR = Ameritech Cost Analysis Resource
    P/A = Present Worth of an Annuity
    PF $=$ Present Worth of a Future Amount

