

1. LOCAL LOOP COSTS -

	UNIT COST	QTY	COST
----- ----- ----- -----			
1A. LOCAL LOOP FACILITY:		PROPOSED NEW FIBER CABLE TO	
-----		17821 HIGHWAY 173	
		HESPERIA, CA	
24XX (MATERIALS):			

24-FIBER SM	\$0.52 /FT	775 FT	\$403
COPPER CABLE	\$0.00 /FT	0 FT	\$0
SPLICING COSTS, SPLICE CASES			\$53

MATERIAL TOTAL			\$456
24XX (CONTRACT):			

1-1" SUBDUCT (CONTRACT MATL)	\$0.15 /FT	760 FT	\$114
1-4" CONDUIT (CONTRACT MATL)	\$0.60 /FT	0 FT	\$0
CONTR. LABOR PL MANHOLES	\$5,132 EA	0 EA	\$0
CONTR. LABOR @ \$20.00/FT	\$20.00 /FT	0 FT	\$0
CONTR. LABOR / PLACING			\$1,596
PERMITS / FEES			\$1,500

CONTRACT TOTAL			\$3,210
			=====
MATERIAL AND CONTRACT TOTAL			\$3,666

ENGINEERING HRS	60 HRS
PLACING HRS	0 HRS
SPLICING HRS	32 HRS

1B. CDL EQUIP COSTS		PROPOSED NEW SONET TERMINAL	
-----		TO BE LOCATED AT HSPR-XF	
OC-3 TERM E/W (4) DS-1's2XX:			

COMMON UNITS	\$4,152.00 EA	1	\$4,152
HS OPTICAL 1xOC-3 INTERFACE	\$1,045.00 EA	2	\$2,090
ELECTRICAL 4xDS-1 INTERFACE	\$210.00 EA	2	\$420
LOW SPEED SWITCH FOR LC1A	\$174.00 EA	1	\$174
MUX/DEMUX FOR DS-1	\$196.00 EA	2	\$392
FIBER JUMPERS	\$50.00 EA	4	\$200
PRE-ASSEMBLED RACK	\$4,020.00 EA	1	\$4,020

TOTAL CDL EQUIPMENT COST:		4 DS1	\$11,448
SALVAGE (REUSE):	\$8,013.60		
TOTAL ENGINEERING HRS	30 /SYS	1 SYS	30
TOTAL CONSTRUCTION HRS	60 /SYS	1 SYS	60

|::

AT&T WIRELESS (CA02-06002)
FIBER FACILITIES FOR DS-1 SERVICES

ATTACHMENT "A"
PAGE 2

1. LOCAL LOOP COSTS -

	UNIT COST	QTY	COST
----- ----- ----- -----			
1A. LOCAL LOOP FACILITY:			

24XX (MATERIALS):			

12-FIBER SM	\$0.66 /FT	0 FT	\$0
CABLE	\$0.25 /FT	0 FT	\$0
MISC. SPLICING COSTS			\$0

MATERIAL TOTAL			\$0
24XX (CONTRACT):			

1-1" SUBDUCT (CONTRACT MATL)	\$0.25 /FT	0 FT	\$0
1-4" CONDUIT (CONTRACT MATL)	\$0.36 /FT	0 FT	\$0
CONTR. LABOR PL MANHOLES	\$5,132.00 EA	0 EA	\$0
CONTR. LABOR			\$0

CONTRACT TOTAL			\$0
			=====
MATERIAL AND CONTRACT TOTAL			\$0

ENGINEERING HRS	0 HRS
PLACING HRS	0 HRS
SPLICING HRS	0 HRS

1B. CDL EQUIP COSTS		PROPOSED NEW OC-3 TERMINAL TO BE LOCATED AT THEat&t WIRELESS CELL SITE	

OC-3 TERM E/W (4) DS-1's:			

COMMON UNITS	\$4,413.00 EA	1	\$4,413
HS OPTICAL 1xOC-3 INTERFACE	\$1,045.00 EA	2	\$2,090
ELECTRICAL 4xDS-1 INTERFACE	\$210.00 EA	2	\$420
LOW SPEED SWITCH FOR LC1A	\$174.00 EA	1	\$174
MUX/DEMUX FOR DS-1's	\$196.00 EA	2	\$392
PATCH CORDS FIBER	\$50.00 EA	4	\$200
PRE-ASSEMBLED RACK	\$17,307.00 EA	1	\$17,307

TOTAL CDL EQUIPMENT COST:		4 DS1	\$24,996
SALVAGE (REUSE):	\$17,497.20		
TOTAL ENGINEERING HRS	30 /SYS	1 SYS	30
TOTAL CONSTRUCTION HRS	60 /SYS	1 SYS	60

|::

AT&T WIRELESS (CA02-06002)
FIBER FACILITIES FOR DS-1 SERVICES

ATTACHMENT "A"
PAGE

1. LOCAL LOOP COSTS -

	UNIT COST	QTY	COST
----- ----- ----- -----			
1A. LOCAL LOOP FACILITY:			

24XX (MATERIALS):			

12-FIBER SM	\$0.66 /FT	0 FT	\$0
CABLE	\$0.25 /FT	0 FT	\$0
SPLICING COSTS, SPLICE CASES			\$0

MATERIAL TOTAL			\$0
24XX (CONTRACT):			

1-1 1/2" SUBDUCT CONTRACT MAT	\$0.25 /FT	0 FT	\$0
1-4" CONDUIT (CONTRACT MATL)	\$0.36 /FT	0 FT	\$0
CONTR. LABOR PL (1) SUB-DUCT	\$0.31 /FT	0 EA	\$0

CONTRACT TOTAL			\$0
			=====
MATERIAL AND CONTRACT TOTAL			\$0
ENGINEERING HRS			
		0 HRS	
PLACING HRS			
		0 HRS	
SPLICING HRS			
		0 HRS	
1B. CDL EQUIP COSTS			

22XX:			

WIDE DEV DEMOD & RCVR	\$7,927.00 EA	0	\$0.00
RELAY RACK & MISC.	\$400.00 EA	0	\$0.00
SYS SPARES	\$4,000.00 SET	0	\$0.00
FIBER DISTRIBUTION CTR	\$1,200.00 EA	0	\$0.00
			\$0.00
			\$0.00

TOTAL CDL EQUIPMENT COST:			\$0.00
SALVAGE (REUSE):	\$0.00		
TOTAL ENGINEERING HRS			
	32 /SYS	0 SYS	0
TOTAL CONSTRUCTION HRS			
	16 /SYS	0 SYS	0
----- ----- ----- -----			

|::

AT&T WIRELESS (CA02-06002)
FIBER FACILITIES FOR DS-1 SERVICES

ATTACHMENT "A"
PAGE

2. COE EQUIPMENT COST:

	UNIT COST	QTY	COST
-----	-----	-----	-----
2A. 560 Mb OLTM E/W 12 DS3:			

22XX:			

1X1 560Mb OLTM	\$51,600.00 EA	0	\$0
FIBER DIST PANEL	\$325.00 EA	0	\$0
FIBER PATCH CORDS	\$50.00 EA	0	\$0
DS3 MODULES	\$265.00 EA	0	\$0
DSX3 CROSS CONNECT SHELF	\$195.00 EA	0	\$0

TOTAL:		12 DS3	\$0
COE COST PER DS3:			\$0
CONSTRUCTION HRS	80 /SYS	0 SYS	0
ENGINEERING HRS	40 /SYS	0 SYS	0
COE LABOR HOURS PER DS3:	0.0 CSTR	0.0 ENGR	

2B. OC-12 OLTM E/W 12 DS3:

22XX			

DDM OC12 SHELF & COMMON	\$14,731.00 EA	0	\$0
CABLE ASSY OC12 E/W MULTIP	\$1,507.00 EA	0	\$0
ASSY OC12 DS3 MODULES	\$1,199.00 EA	0	\$0
CKT PACK OC12 OLIU	\$12,430.00 SET	0	\$0
RING SOFTWARE OC12	\$1,728.00 EA	0	\$0
CABLES & MISC.	\$3,000.00 EA	0	\$0
FIBER DIST PANEL	\$325.00 EA	0	\$0
FIBER PATCH CORDS	\$50.00 EA	0	\$0
DS3 MODULES	\$265.00 EA	0	\$0
DSX3 CROSS CONNECT SHELF	\$195.00 EA	0	\$0

TOTAL:		12 DS3	\$0
COE COST PER DS3:			\$0
CONSTRUCTION HRS	80 /SYS	0 SYS	0
ENGINEERING HRS	40 /SYS	0 SYS	0
COE LABOR HOURS PER DS3:	0.0 CSTR	0.0 ENGR	
-----	-----	-----	-----

|::

AT&T WIRELESS (CA02-06002)
FIBER FACILITIES FOR DS-1 SERVICES

ATTACHMENT "A"
PAGE

2C. AT&T DDM-2000 E/W 3 DS3:

22XX:

HICAP CAB E/W 3 DS3'S (CUST)	\$27,821.00	EA	0	\$0
COMMON ASSEMBLY	\$4,947.00	EA	0	\$0
OPTICAL TRANSCEIVERS	\$3,212.00	EA	0	\$0
DS3 CARDS	\$1,981.00	EA	0	\$0
POINT TO POINT SOFTWARE	\$433.00	EA	0	\$0
SHELF AND COMMONS (C.O.)	\$5,912.00	EA	0	\$0
CABLES	\$2,121.00	EA	0	\$0
DSX-3 PANEL	\$400.00	EA	0	\$0
DS3 MODULES	\$265.00	EA	0	\$0
FIBER PATCH CORDS	\$50.00	EA	0	\$0

TOTAL:			3 DS3	\$0
COE COST PER DS3:				\$0

CONSTRUCTION HRS	40 /SYS	0 SYS	0
ENGINEERING HRS	20 /SYS	0 SYS	0

COE LABOR HOURS PER DS3: 0.0 CSTR 0.0 ENGR

2D. FT-2000 OC-48 E/W 48 DS3:
----- SERVING CU:

22XX

FT OC-48 E/W 48 DS3's	\$35,970.00	EA	0	\$0
FT-OC48 CABLES	\$9,114.00	SET	0	\$0
FT OC-48 DS3's (48)	\$1,404.54	EA	0	\$0
CIRCUIT PACK OPTICAL TRANS	\$26,438.00	EA	0	\$0
CABLE & MISC. HARDWARE	\$3,000.00	SET	0	\$0
FIBER DIST PANEL	\$325.00	EA	0	\$0
FIBER PATCH CORDS	\$50.00	EA	0	\$0
DSX3 CROSS CONNECT SHELF	\$195.00	EA	0	\$0

TOTAL:			48 DS3	\$0
COE COST PER DS3:				\$0

CONSTRUCTION HRS	80 /SYS	0 SYS	0
ENGINEERING HRS	40 /SYS	0 SYS	0

COE LABOR HOURS PER DS3: 0.0 CSTR 0.0 ENGR

|::

AT&T WIRELESS (CA02-06002)
FIBER FACILITIES FOR DS-1 SERVICES

ATTACHMENT "A"
PAGE 3

3. INTEROFFICE SUMMARY OF COE EQUIPMENT AND FIBER FACILITY COSTS

3A. CENTRAL OFFICE OLTM EQUIPMENT

22XX:	SYS COST	COST/DS3
2A. 560 Mb OLTM E/W 12 DS3:	\$0 TOTAL	\$0
2B. OC-12 OLTM E/W 12 DS3:	\$0 TOTAL	\$0
2C. AT&T DDM-2000 E/W 3 DS3:	\$0 TOTAL	\$0
2D. FT-2000 OC-48 E/W 48 DS3:	\$0 TOTAL	\$0
TOTAL NETWORK OLTM COST:	\$0	
PER DS3: -----		\$0
PER DS1: -----		\$0
TOTAL COE CONSTR HRS:		0
TOTAL COE ENGR HRS:		0
OT NTWK LABOR HRS PER DS1:	0.0 CSTR	0.0 ENGR

3B. INTEROFFICE FIBER FACILITIES

FIBER CABLE/MATL COSTS:	\$0
CONDUIT COSTS:	\$0
SUBDUCT COSTS:	\$0
CONTRACT COSTS:	\$0
TOTAL FIBER FACILITY COST:	\$0
PER SPAN: -----	\$0
FIBER CABLE COST PER DS3: -----	\$0
OSP ENGINEERING HOURS: (DESIGN) -----	0
OSP CONSTRUCTION HOURS: (SPICING) -----	0
OSP CONSTRUCTION HOURS: (PLACING) -----	0

3C. LOCAL LOOP FIBER FACILITIES

FIBER CABLE/MATL COSTS: -----	\$456
CONTRACT LABOR/MATL COSTS : -----	\$3,210
TOTAL LOOP FIBER FACILITIES COST: -----	\$3,666
NON-LOADED LABOR RATE	
LOCAL LOOP OSP ENGINEERING HOURS: (DESIGN) \$1,963	60
LOCAL LOOP OSP CONSTRUCTION HOURS: (PLACING) \$0	0
LOCAL LOOP OSP CONSTRUCTION HOURS: (SPLICING) \$814	32

3D. CDL MATERIALS:

TOTAL CDL MATERIAL COSTS: -----	\$36,444
TOTAL CDL EQUIP. ENGINEERING HOURS: \$1,963	60
TOTAL CDL EQUIP. CONSTRUCTION HOURS: \$3,055	120
NON-LOADED LABOR RATE TOTAL	\$7,794

|::

AT&T WIRELESS (CA02-06002)
FIBER FACILITIES FOR DS-1 SERVICES

ATTACHMENT "A"
PAGE 4

4. FIBER SPAN ROUTING

SPANS	FIBER CABLE RTE	DISTANCE	TERM EQUIP
	28-FIBER SM	0	0
	28-FIBER SM	0	0
	24-FIBER SM	0	0
	36-FIBER SM	0	0
	TOTAL DIST:	0 MILES	

5. TOTAL SALVAGE (REUSE) OF CDL MATERIAL:	\$25,510.80
---	-------------

NOTE: (1)

(7) LIFE EXPECTANCY OF ELECTRONICS IS ESTIMATED AT 10 YEARS.

(8) EQUIPMENT IS GTE STANDARD AND CAN BE REUSED.

(9) EQUIPMENT REQUIRES -48 VDC FOR OPERATION.

|::

AT&T WIRELESS (CA02-06002)
FIBER FACILITIES FOR DS-1 SERVICES

ATTACHMENT "A"
PAGE

NOTES CONTINUED -

*

LOCAL LOOP 1	\A	/PPRA1..J58~AGPQ
LOCAL LOOP 2	\P	/PPRA60..J115~AGPQ
LOCAL LOOP 3	\Q	/PPRA117..J169~AGPQ
COE EQUIPMENT	\R	/PPRA171..J222~AGPQ
SUMMARY SHEET	\S	/PPRA270..J327~AGPQ
PAGE WITH NOTES	\N	/PPRA329..J369~AGPQ

ATTACHMENT "B"

FIBER FACILITY COSTING SHEETS

FIBER - DS3 SERVICES

	LENGTH	UNIT	COST	MILES
1 SPAN:				
FIBER CABLE TYPE: 12-FIBER SM				
COST/FEET: \$0.66	775	FEET	\$512	0
2 SPAN:				
FIBER CABLE TYPE: 12-FIBER SM				
COST/FEET: \$0.66	0	FEET	\$0	0
3 SPAN:				
FIBER CABLE TYPE: 12-FIBER SM				
COST/FEET: \$0.66	0	FEET	\$0	0
TOTAL:	0	FEET	\$512	0

|::

ATTACHMENT "B"

FIBER FACILITY COSTS

#VALUE!
FIBER - DS3 SERVICES

2. CONSTRUCTION COSTS

			COST		
1 SPAN:					
1. DISTANCE (FEET):	775	0	0		
2. PLACING FACTOR (HRS/MILE):	105.6				
3. SPLICE FACTOR (HRS/FIBER):	0.889				
4. FIBER CABLE SIZE:	12				
5. FIBER CABLE COST:			\$512	\$0	\$0
6. SPLICE CASE COST:	\$410.58	TOT	\$53	\$0	\$0
7. SPLICE/TEST HRS PER FIBER:	0.11				
8. TOT SPLICE/TEST HRS PER CA	1.37	(6x4)			
9. PLACING HRS PER CABLE:	13.60				
10. TOT CSTR HRS PER CABLE:	14.97	(8+9)			

13. 1-4" CONDUIT @\$0.36 PER FT

\$124

17. FIBER CA COST & CSTR COST:	(5+6+16+19)	#VALUE!
18. FACILITY COST PER FIBER:	(17/4)	#VALUE!

19. CONTRACT LABOR \$1,004

ATTACHMENT "B" FIBER FACILITY COSTS

=====

| COST |

TOTAL FIBER & FAC COST: #VALUE!

=====

PER FIBER TOTALS:

COST/FIBER 12-FIBER SM #VALUE!

TOTAL SPAN - COST PER FIBER: #VALUE!

=====

CONTRACT LABOR COST: \$1,004

TOTAL FIBER CABLE COST: \$512

TOTAL SUBDUCT COST: #VALUE!

TOTAL COST PER FIBER: #VALUE!

TOTAL CSTR (HRS) COST: #VALUE!

TOTAL ENGR (HRS) COST: #VALUE!

TOTAL CSTR HRS: 15

TOTAL ENGR HRS: #REF!

