Michigan Department of Transportation 1168-93 (5/00)

## FORCE ACCOUNT WORKSHEET FOR EQUIPMENT FOR THE 1993 SPECIAL PROVISION

**FILE 109** 

Sheet

\*RATE ADJUSTMENT FACTOR: For discontinued equipment; Rate Adj. Factor = (A/B)

For present manufactured equipment; Rate Adj. Factor = A

CONTROL SEC.	JOB NO.	CONTRACTOR					DATE FORCE ACCT.			PREPARED BY:			DATE	
							STARTED							
EQUIPMENT DESCRIPTION (Model #, Size Horsepower, Year)		BLUEBOOK REF. PUBLISHED DATE VOLUME NO. Selection/Page	Α	YEAR OF EQUIP. YEAR DISC.	F A C	BLUEBOOK MONTHLY RATE	X *RATE ADJ. FACTOR	= ADJUSTED MONTHLY RATE	÷ 176	= HOURLY RATE	X REGIONAL ADJ. FACTOR	+ OPERATING RATE COST/HR.	= ADJUSTED HOURLY RATE	
			A B											
			A B											
			A B											
			A B											
			A B											
			A B											
			A B											
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			A B											
			A B											
			A B											

FILE 109

- A. Calculating Hourly Rate For Equipment Presently Being Manufactured.
  - Obtain as much information about machine as possible.

    Example: John Deere Model 590D Crawler Mounted
    Hydraulic Excavator 95 HP, 0.75 Cyd bucket
    Manufactured 1988
  - 2. Obtain bluebook data from District Office.

6/93 - Published date of current section of bluebook.

Volume 1 - Volume of bluebook used.

10-6 - Section 10 and page 6 of bluebook listed.

A = 0.909 - Adjustment factor based on year machine was manufactured.

\$4,685.00/Month - Monthly rental rate.

1.08 - Regional Adjustment Factor.

\$10.20/Hour - Estimated operating cost.

- 3. \_\_\_\_\_\_"Adjusted Monthly Rental Rate" 4.685.00/Month x 0.909 = \$4.258.66
- 4. CALCULATE "Adjusted Hourly Rental Rate"

\$4,258.66/Month x 1.08 + \$10.20 = \$36.34/Hour

5. CHECK Calculations

B. Calculating Hourly Rate For Discontinued Equipment.

Obtain as much information about machine as possible.

Example: American 4210 Crawler Mounted Mechanical Backhoe
1.0 Cyd bucket, 93 HP

Manufactured 1975

2. Obtain bluebook data from Lansing Construction Office.

Jan. 1993 - Published date of current section of bluebook.

Volume 3 - Volume of bluebook used. (Volume 3 for equipment 11 to 20 years old.)

L-1 - Section L page 1 of bluebook listed.

A = 0.781 - Adjustment factor based on year machine was manufactured (1975).

B = 0.787 - Adjustment factor based on year machine was discontinued (1976). (Obtained from bluebook.)

\$4,030.00/Month - Monthly rental rate.

1.08 - Regional Adjustment Factor.

\$19.15/Hour - Estimated operating cost.

- 3. <u>CALCULATE</u> "Rate Adjustment Factor" Rate Adjust Factor - (A/B) = 0.781/0.787 = 0.992
- 4. <u>CALCULATE</u> "Adjusted Monthly Rental Rate" \$4.030.00/Month x 0.992 = \$3.997.76
- 5. CALCULATE "Adjusted Hourly Rental Rate"

\$3,997.76/Month 176 x 1.08 + \$19.15 = \$43.68/Hour

**CHECK Calculations** 

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PREPARED BY: CONTROL SEC. JOB NO. CONTRACTOR DATE FORCE ACCT. DATE STARTED M 85000 11111A **GOOD CONSTRUCTION** 7 / 93 M. D. TRANSPORTATION 10-20-93 BLUEBOOK REF. ADJUST, FACTOR ÷ Х Х + = **BLUEBOOK PUBLISHED EQUIPMENT DESCRIPTION** YEAR OF \*RATE ADJUSTED **REGIONAL OPERATING ADJUSTED** DATE VOLUME MONTHLY **HOURLY** (Model #, Size Horsepower, Year) ADJ. **MONTHLY** 176 RATE HOURLY ADJ. NO. B YEAR DISC. RATE RATE **FACTOR** RATE **FACTOR** COST/HR. **RATE** Selection/Page **JOHN DEERE 590D** 6/93 1988 .909 4,685.00 .909 4,258.66 176 24.20 1.08 10.20 36.34 0.75 Cyd CRAWLER MOUNTED VOL. 1 В **HYDRAULIC EXCAVATOR, 1988** 10 - 6 Α В Α В AMERICAN 4210 93 HP **JAN. 93** 1975 .781 Α 4,030.00 .992 3,997.76 176 22.71 1.08 19.15 43.68 1.0 Cyd CRAWLER MOUNTED VOL. 3 В **MECHANICAL BACKHOE, 1975** .787 L - 1 1976 Α В Α В Α В Α В Α В Α В Α В