# COST AND SCHEDULE <br> STATUS REPORT <br> February 1985 

MTA LIBRARY

METRO RAIL PROJECT PROJECT UNIT INDEX

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# RTD METRO RAIL PROJECT <br> STATUS NARRATIVE 

FEBRUARY 1985

The Total Project Approved Budget is now $\$ 340.790$ million which includes contingencies, advanced 1 and acquisition, revenue financing and all funding sources. Total project expenditures to date total $\$ 159.053$ million.

The accompanying graph illustrates the planned expenditures of $\$ 218$ million against the actual expenditures. This variance of $\$ 59$ million is primarily due to the late issuance of contract NTP's and the late acquisition of $R-O-W$ properties.

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OBLIGATIONS PLAN/FORECAST (Ist IIN. thos Fumimy

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HETHO RAIL PROJECT
AVAILABLE FUNES CASHFLON - MOG-1 (\$000)


METFO RAIL PROJECT
AVAILABLE FUNOS CASHFLOW - MOS-1 ( $\$ 000$ )
$123 \quad 3 \quad\left(1^{4}-3\right)$
CASHFLON

$\$ 21,978,000$ F0.

METRO RAIL PROJECT



Besis:

 FNDING LIMITATIONS.
C) OCIP IS CURRDMIL GHCN AS A OR THE PLANTR COMSTRUCTION CASHPLOA.

SGID MEIFO PALL PFOETT
DETAIEEDFUNDINGBREAKDOWN

| Prding Incr me | Un | " |  |  | $\begin{aligned} & n 1180 \\ & 3 \end{aligned}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \$ 12,000,000 | \$ |  | \$ | 2,816,200 | 3 | 730,000 | \$ | -0- | \$ | 15,566,250 |
| Poulifinary enginacing phes if (5/0 0-03-0130-01 | \$ 9,800,000 | \$ | -0- | \$ | 1,483,250 | \$ | 612,500 | \$ | -0- | \$ | 12,095,750 |
|  | \$ 9,774,400 | \$ | -0- | \$ | 1,326,950 | \$ | 579,150 | \$ | -1- | \$ | 11,181,000 |
| sib-ionct prolidinacy Byinering | \$ 31,074,400 | * | -0- | \$ | 5,825,40 | \$ |  |  |  |  |  |
| Cratinuad Prollidinay Engintiring, pron I (9/62) Ci-03-0130-03 | \$ 15,000,000 | \$ | -0 | \$ | 2,812,500 | \$ | 1.92 .160 937.500 | \$ | $-0-$ -0 | \$ | $30,063,000$ 35,700000 |
| Cartinued Praltitinay Eginmetng, Pher t (4/83) 0-03-0130-04 | \$ $2,000,000$ |  | -0 | \$ | 5.503,000 | \$ | 2,830,000 | \$ | -0- | \$ | 33,333,000 (1) |

sreaunal continuat

| Prallintimy Engineming |  | ,000,000 | 5 | -0- | \$ | 8,315,500 | \$ | 3,767,500 | \$ | -0 | \$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Requisition of sinta to | \$ | -0 | \$ |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { Rail Yayd }(9 / 83) \\ & x-7619 \end{aligned}$ |  |  | \$ | -0- |  | 31,000,000 | \$ | 1,650,000 | \$ | -0- | \$ | 32,630,000 |


| Advared lind <br> Acepraithion (9/83) $\text { c. } 50-0002$ | \$ | -0- | \$ | 14,760,000 | \$ | -0- | \$ | -0 | 5 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |


| $\begin{aligned} & \text { Pre-araterution } \\ & (5 / 84) 04-03-0130-05,06 \end{aligned}$ | \$ 105,400,000 | \$ | -0- | \$ 27,100,000 | \$ 37,500,000 | \$ | -0- |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Buaby Modificreion |  |  |  |  |  |  | -0- | s | 170,000,000 |

(7/84)
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TOTRL, ALI GEMT Acrocirions

| $5-0-$ |  | \$ | -0- | \$ | 2,500,000 | \$ | -0 | \$ | 2,500,000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \$ -0 | \$ 25,433,720 | \$ | 300,000 | \$ | 500,000 | \$ | -0- | \$ | 25,233,720 |
| \$ 176.474,400 | \$ 40,243,720 |  | ,541,950 |  | 7,839,650 | \$ |  |  |  |



RTD METRO RAIL PROJECT OPEN PROFESSIONAL SERVICES CONPRACTS

## 2/28/85


I. Transit Facilities

3509 Westec 15,000
2284-5 Lindvall Richter (Geotech. II) 480,900
3138 City of Los Angeles (Master Agreement) 725,000
3172
Pacific Bell
156,000
3301
3237
CALTRANS
Western Union Telegraph 2,784,213

3351
John Gordon
60,000
3320
3323
3464-A
3173-A
2160-6
2611-3
2274
3212
3520
3480
Julia Brown
Alan Sieorty
20,000
20,000
Dept. of Water \& Pown - Water secton 20,000
Dept. of Water \& Power - Water Section 350,000
Dept. of Water \& Power - Power Section 365,000
Barton Aschman
County of Los Angeles (Staff Asst.)
Carl Englund 161,700

Carl Englund 14,153
W. H. Patterson

Southern California Gas Co.
O'Brien \& Kreitzberg
7,000

Flood Control District 24,900
3535
Sub-Total
II. System Design \& Analysis

| 3394 | MIDCQM | 10,000 |
| :--- | :--- | :--- |
| 3282 | SRI International | 19,985 |

3282
3090-1
3136-1
3371
2218
2218
SRI International
19,985
Cons. Fire Prot. District 103,286
$\begin{array}{lr}\text { Booz-Allen \& Hamilton } & 103,286 \\ 1,499,031\end{array}$
COMHUNICOM 7,500
Comission de Transport $\quad 5,000$
Walter Woods $\quad 1,020$
Sub-Total $\$ 1,645,822$

RID MEIRO RAIL PROJECT
OPEN PROFESSIONAL SERVICES CONIRACTS (CONT.)
$2 / 28 / 85$

\$ 191,051

2/28/85


PC-MO.STAT. ${ }^{\text {\# }} 2$
6-A. 2
3/28/85

## NA <br> lierapy

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## EXPLANATION OF TERMS

Cost Performance Index (C.P.I.)

Cost Variance (C.V.)

Current Contract Cost

Expended

Forecast at Completion

Independent Estimate at Completion (I.E.A.C.)

Negotiated Contract Changes

Original Contract Cost

Pending Changes

Percent Complete

## Productivity

- Used to indicate the actual cost of each planned dollar of work accomplished.
$=\quad$ Earned Costs
Expenditures
- The difference between the actual dollars spent and the actual dollars earned.
$=$ Actual $\$$ Spent - Earned $\$$
- The dollar value on which contractual agreement has been reached.
- The entry into official RTD accounting ledgers of the use of resources.
- An estimate and prediction of the total cost of the contract.
- A calculated EAC based on the current rate of cost performance.

$$
=\frac{\text { Forecast at Completion }}{\text { C.P.I. }}
$$

- The cumulative cost applicable to definitized contract changes which have occurred since the beginning of the contract.
- The dollar value negotiated in the original contract.
- The estimated cost for contract changes that have yet to be negotiated or approved.
- A comparison of the completion status to the current projection of total work.
- A relative measure of labor efficiency
compared to an established base.

$$
=\frac{\% \text { complete } x \text { Total } M H \text { forecast }}{M H^{\prime} \text { s spent }}
$$

## To Complete Performance Index

(T.C.P.I.) - Basically a comparison of the work remaining to the amount of money remaining. The results of this formula indicate the cost effictency the contractor must perform to meet the Forecast at Completion.
$=$ Forecast at Completion - Earned Costs
Forecast at Completion - Actual \$ Spent

## Variance

- Any actual or potential devfation from a budget or plan.

This month's Cost/Schedule Status Report analyzes and compares reported actuals against the latest MRTC forecasts as shown in the monthly progress report. Actual progress is running behind forecasted progress on mOS-l contracts. For details concerning individual contracts, refer to the section Designer Evaluation Summary in this report.

Some concerns with this month's report are as follows:

- Forecasted percent complete figures are not reported this month on contract A165 and Al95.
- Stop work orders were issued to some of the MOS-1 Facilities Design Contracts but the report did not address the total cost of the contracts (i.e., the work being performed by the MRTC).

ME IRO RAIL PROJECT
SECTION DESIGN EVALUATION SUMMARY
fEBRUARY 1985


## INCREMENT I CONTRACTS:



* EXCLUDES TSO PROJECTIONS FOR CONTRACT A445
** FOR CONTRACTS TO BE COMPLETED AT MRTC'S FORECAST
NOTE: HCREMENT! I DATA HAS BEEN CONVERTED TO SHOW PROGRESS AS


## METRO RAIL PROJECT <br> SYSTEMS DESIGN EVALUATION SUMMARY FEBRUARY 1985



SYSTEMS CONTRACTS:


[^0]
## $\rightarrow$ <br> LISPARY

## COST PERFORMANCE REPORT <br> SECTION DESIGEER



CUMULATIVE TO DATE
(BASED ON MRTC MONTHLY PROGRESS REPORT DATA)


Consultant turned over all the design documents on the prearranged date of $2 / 28 / 85$. The MRTC will complete the cost by $\$ 2,707,000$ or $66 \%$.

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SEETMGH DESTGREF: DHIMFEDD
FEEFLGF; i9gE



TH METPE FGIL FROTEET

SECTIUH DESIGNER: DHJMFEQD
FEEFUARG 19 EE


## COST PERPORMANCE REPORT

 SECTION DESIGNER```
CONIRACT NO. : Al35, Union Station
CONTRACTOR : Harry Weese & Associates
REPORT PERIOD : February 1985
```



ClMULATIVE TO DATE
(BASED ON MRTC MONTHLY PROGRESS REPORT DATA)


CONCLUSIONS AND OBSERVATIONS:
Harry Weese and Associates was issued a Stop Work Order as of February 28, 1985; TAMS and the MRTC will complete all remaining work by April 1 at "no additional cost to the District" - a misleading phrase, as all work accompl ished by the MRTC is charged to the District; this phrase should perhaps be restated as "no additional charge to the Al35 contract." There will be negotiations for closing costs and some fee.

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FEERUAFY 1985


## COST PERPORMANCE REPORT <br> SECTION DESIGNER

```
CONIRACT NO. : Al40, Civic Center/5th & Hill Stations + Line
CONTRACTOR : Delon Hampton & Associates
REPORT PERIOD : February 1985
```



CLMULATIVE TO DATE
(BASED ON MRTC MONIHLY PROGRESS REPORT DATA)


CONCLUSIONS AND OBSERVATIONS:
This contract continues to proceed satisfactorily, decreasing the gap between forecasted and actual percent complete to four points from last month's ten points. If the Section Designer's high productivity and C.P.I. continue, the above calculations indicate a cost to complete below the original contract cost.

```
PTI TETRD RAIL FROJEET
GGHTRHET AI4Q - EIVIG EENTER FIFTH B HILL
SEITTOH DESIGNER: DELOH HANFTON B HBSOC,
FEERJFFG 1985
```




FTD NETRO FAIL FFOTELT
GinTFAT AI40 - GIVIG GENTEF,FIFTH \& HILL GESTIGN DESIGHE: DELGA HATFTON B GSEQU.

FEEFUFFG 1985


## COST PERFORMANCE REPORT SECTION DESIGNER

```
CONIRACT NO. : A165, 7th/Flower Station
CONTRACTOR : Gannett Fleming/Dworsky
REPORT PERIOD : February 1985
```

| (1) | (2) | (3) | (4) | (5) | (б) | (7) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 ORIGINAL | APPROVED | 1 CURRENT |  | MRTC | (6) | ESTIMATE |
| 1 CONTRACT | CONTRACT | 1 CONTRACT | PENDING | ESTIMATE AT | EXPENDED | ESTIMATE |
| 1 COST | CHANGES | 1 Cost | Changes |  |  |  |
| 1 |  | 1 (1) + (2) |  | $(3)+(4)$ |  | CCMPLETE <br> (5) $-(6)$ |
|  |  | 1 |  | (3) + (4) |  |  |
| ! \$ 2,129,587 | \$ 824,675 | \| \$ 2,954,262 | \$ 990,738 | \$ 3,945,000 | \$ 3,945,000 | \$ 0 |
| 1 |  | 1 |  |  |  |  |

CUMULATIVE TO DATE
(BASED ON MRTC MONTHLY PROGRESS REPORT DATA)


CONCLUSIONS AND OBSERVATIONS:
Although the MRIC Progress Report shows no forecast for March, the Section Designer will complete his work in mid-March. Some items for all mas-1 stations will remain to be completed by the MRTC.
The MRIC Estimate at Completion was increased this month to equal the actual cumulative expenditures. Due to March expenditures, the District feels this new estimate will be overrun by $\$ 122,000$.

> RTD HETRG Fail frorect
> GCTFAET A15S - SEVENTH \& FLOWEF
> GETTIOH DEGIGNER; GATHETT FLEMING DHOREKY FEERBREA 1985

….... HOTUAL

FTI HETFO RAIL FROJEET
GUTRAET HEE - SEVENTH \& FLOWER SECTIGN DESIDNER: GANHETT FLEHING,DWORSK FEERUCFY 1985

$\square$

TG FETRG FGIL PROJECT
IDHTFALT H165 - BEVENTH \& FLOLJEF
 FEERUFAG 1985


COST PERFOPMANCE REPORT
SECTION DESIGNER

```
CONIRACT NO. : Al70, Wilshire/Alvarado Station + Line
CONIRACTOR : Sverdrup Corporation
REPORT PERIOD : Pebruary 1985
```



CUMULATIVE TO DATE
(BASED ON MRTC MONTHLY PRGOGRESS REPORT DATA)


A Stop Work order was issued to the consul tant effective $3 / 8 / 85 ; 100 \%$ complete signed and sealed drawings were
subnitted $3 / 12 / 85$. The submitted $3 / 12 / 85$. The District will have to make the decision on how this contract will be completed.

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FEEFLAFT 19ES


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& \text { FTG HETHR PAIL FRGTEET }
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& \text { EEGTOH DEGIGFEF: SVERDRUF EDRP. } \\
& \text { FEEFUFRY } 1985
\end{aligned}
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RTD METRO RAIL FROJECT
DOHTEALT m 170 - WILSHIREAALVARADO SELTITH DEEIGUER: SVERDRUF GQRF. FEERUAFY 1985


## COST PERFORMANCE REPORT SYSTEMS DESIGNER

```
CONIRACT NO. : A612, A615, A630 - Traction Power Procurement
CONTRACTOR : MRTC
REPORT PERIOD : February 1985
```



CUMULATIVE TO DATE


CONCLUSIONS AND OBSERVATIONS:
This design tnit is proceeding satisfactorily. Productivity, C.P.I., and the cost variance have all increased since January.

## COST PERFORMANCE REPORT SYSTEMS DESIGNER

```
CONIRACT NO. : A620, Automatic Train Oontrol
CONTRACTOR : MRTC
REPORT PERIOD : February }198
```



Cumulative to date


CONCLUSIONS AND OBSERVATIONS:
This contract's cost and labor per formance continues at a satisfactory level.

## COST PERFORMANCE REPORT SYSTEMS DESIGNER

```
CONTRACT NO. : A631, Traction Power Installation
CONTRACTOR : MRTC
REPORT PERIOD : February 1985
```



CIMULATIVE TO DATE


CONCLUSIONS AND OBSERVATIONS:
The Traction Power Installation design unit continues to proceed satisfactorily.

## COST PERFORMANCE REPORT <br> SYSTEMS DESIGNER

```
CONTRACT NO. : A640, Communications
CONTRACTOR : MRTC
REPORT PERIOD : February 1985
```



CUMULATIVE TO DATE

| PERCENT COMPLETE |  |  |  |  |  |  |  | \$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 PLANNED | FORECAST | ACTLAL | MANHOUR <br> PRODUCTIVITY | ¢. ${ }_{\text {S.P.I. }}$ |  | COST VARIANCE | T.C.P.I. | $\begin{gathered} \text { RTD } \\ \text { I.E.A.C. } \end{gathered}$ |
| 1 |  |  | - |  |  |  |  |  |
| 1 90\% | 60\% | 60\% | 1938 | \$. 95 | 1 | \$45,800 | 109\% | \$1,433,684 |
| 1 |  |  | , |  |  |  |  |  |

## CONCLUSIONS AND OBSERVATIONS:

The contract is progressing satisfactorily with no problem areas identified at this time. Productivity is slightly low and if not increased will cause cost overruns.

## COST PERFORMANCE REPORT SYSTEMS DESIGNER

```
CONIRACT NO. : A650, Passenger Vehicles
CONTRACTOR : MRTC
REPORT PERIOD : February 1985
```



CLMULATIVE TO DATE
$\stackrel{\leftrightarrow}{心}$


CONCLUSIONS AND OBSERVATIONS:
The design unit continues to proceed satisfactorily.

## COST PERFORMANCE REPORT SYSTEMS DESIGNER

```
CONIRACT NO. : A660, Fare Collection
CONTRACTOR : MRTC
REPORT PERIOD : February 1985
```



CUMULATIVE TO DATE


CONCLUSIONS AND OBSERVATIONS:
This contract is progressing well with no problem areas identified at this time.

## COST PERFORMANCE REPORT

SYSTEMS DESIGNER

```
CONTRACT NO. : A670 (A671-679), Auxiliary Vehicles
CONTRACTOR : MRTC
REPORT PERIOD : February 1985
```



ClMULATIVE TO DATE


CONCLUSIONS AND OBSERVATIONS:

* Insufficient information. Percent complete of $100 \%$, as stated in the MPRC Progress Report, pertains only to the locomotive portion of the auxiliary vehicles design unit.



## MOS-1 Critical Path

The Critical Path (MOS-1) defined in the Level III Project Schedule originates at Design Contract Al35 (Union Station, Stage I) and continues to Engineering Review and Bid Documents of Contract Al33 (Union Station Baggage Handing Facilities). This path follows Al 35 construction - from West end installation of soldier piles, to the East end form and pour roof slab. The path then shifts to Architectural Work, the auxiliary Power in Contract Al36 (Union Station, Stage II) and continues through connecting/testing of Traction Power, Automatic Train Control, and Communications Equipment \& Cabling. The path proceeds through Passenger Vehicles Tests, Automatic Train Control Dynamic Tests, and finally to Pre-Revenue Operations Testing.

# METRO RAIL PROJECT SCBEDULE EXCEPTION REPORT 

## Minimum Operable Segment-l Design Contracts

## CONTRACT: All2 Main Shop Building and Yard Service Area

AREA OF CONCERN: $\quad$| The completion of the Bid Documents has |
| :--- |
| been dellayed due to the incorporation of |
| the Rail Control Center (RCC) which is on |
| hold pending decision on the use of |
|  |
| Westransco building. The completion of |
| design is forecast for $7 / 1 / 85$. |

RECOMMENDATION:

CONTRACT: All4 Maintenance of Way Shop Building

AREA OF CONCERN: The completion of the Bid Documents has been delayed due to pending on the use of existing Santa Fe Trail building.

RECOMMENDATION: Decision on the use of existing Santa Fe Trail building is needed.

CONTRACT: All5 Yard Storage Area

AREA OF CONCERN: Completion of the Bid Documents has slipped to $7 / 1 / 85$; slippage is due to the deletion of fencing, lighting and temporary construction access to the site.

RECOMMENDATION: Real Estate is not completely available until 6/01/86. Contract All5 is scheduled to be advertised $10 / 18 / 85$. A partial NTP still can be given on the scheduled NTP date of $2 / 27 / 86$. It is recommended that MRTC manpower be allocated to priority contracts (i.e., All2 and All4 for the completion of bid documents).

AREA OF CONCERN: Contract completion is six weeks beyond the contract time of Performance $(7 / 27 / 85)$. Delay is due to the ECRs that require changes in design (e.g. 5 ft . extension \& 3 ft . lowering of the station).

RECOMMENDATION: The Contract Amendment for ECRS 2 through 7 should be expedited to extend the Time of Performance $(9 / 8 / 85)$.

CONTRACT: Al7l Al75/A187 Line and Wilshire/Alvarado
Station Stage I \& II

## AREA OF CONCERN:

RECOMMENDATION:

1) Contract Completion is forecast 22 weeks beyond the Contract Time of Performance (12/7/84).
2) Disposition of relocation of existing Fire Station is required.
3) A Contract Amendment to extend the Time of Performance should be expedited. The schedule should be revised accordingly.
4) Replacement site for the Fire Station should be determined and UMTA approval secured in order to meet the forecast construction NTP (11/06/85).

## Non-Minimum Operable Segment-l Design Contracts

CONTRACT: A240 Wilshire/Crenshaw Station

AREA OF CONCERN: $\quad$| Contract completion is forecast ll weeks |
| :--- |
| beyond the contract Time of Performance |
| $(1 / 26 / 85)$ Delay is due to the late |
| receipt of seismic design criteria, and |
|  |
| numerous ECRs that require design |
| changes. |

CONTRACT: A245 Wilshire/La Brea Station

AREA OF CONCERN: Contract completion is forecast 24 weeks beyond the contract Time of Performance (10/15/84). Delay is due to the late receipt of seismic design criteria, numerous ECRs that require changes in the design, and Section Designer is short of personnel.

RECOMMENDATION: Contract Amendment for Increment I should be expedited to extend the time of Performance (3/30/85).

AREA OF CONCERN: Contract completion is forecast 13 weeks beyond the Contract Time of Performance (12/27/84). Delay is due to the late receipt of seismic design criteria, and numerous ECRS that require changes in the design.

RECOMMENDATION: Contract Amendment for Increment I should be expedited to extend the Time of Performance (3/29/85).

CONTRACT: A425 Universal City Station

AREA OF CONCERN: $\quad$| Contract completion is forecast 5 weeks |
| :--- |
| beyond the Contract Time of Performance |
| $(2 / 11 / 85)$ Delay is due to the late |
| receipt of seismic design criteria. |

AREA OF CONCERN: $\quad$| The final completion date is forecast 4 |
| :--- |
| weeks beyond the scheduled completion |
| date ( $3 / 15 / 85$ ). Delay is due to enlarging |
| the fan size for Al87 (Wilshire/Alvarado |
| Station). |membrane that will eliminate gaspenetration.

| RECOMMENDATION: | In order to meet the forecast date of $3 / 01 / 85$, it is recommended that efforts be increased in locating a material that is impervious to methane gas and will withstand heavy construction operations. |
| :---: | :---: |

CONTRACT: A760 Graphics \& Signage

AREAS OF CONCERN: The final completion date is forecast 8 weeks beyond the scheduled completion date of $02 / 22 / 85$. Delay is due to scope changes in the contract.

RECOMMENDATION: Effort should be increased to recover delay in schedule.



STRIGS AG OF: PERIPRY 28, 1995



## METBD RAIL PROICT <br> Destey granile sintus




STRIUS AS OF: MERINRY 20, 1985



|  | $\begin{aligned} & \text { NOTICE } \\ & \text { TO } \\ & \text { proceon } \end{aligned}$ |  |  |  | $\begin{aligned} & \text { Pre Fiñ } \\ & \text { sorme } \end{aligned}$ |  <br> \| ACTME(A) | FINL SEMITTEXL <br>  |  | BID DOOWENIS BigLINE / FiCRGT(F) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
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|  |  |  |  |  |  |  | Schaute | ACTUS(A) | scruble | MCTRL(A) |  |  |
| \| A610 $\mathrm{mas}^{\text {c-1 }}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| I tracsultax | 03/01/84 | - | 01/15/85 | 01/15/95A | \| 03/15/85 | 03/15/851 | 05/16/85 | 05/15/85 | 07/12/85 | 07/A5/85 | - | - |
| \| 1620 ma |  |  |  |  |  |  | 0516/05 | 05/1905 | 01/12/85 | 01/4/03 |  | - |
| \| 1620 MTC | 05/02/83 | - | \| 09/29/84 | 02/14/85 | (12/09/84 | \| 07/09/857| | 10/01/85 | 09/26/85 | 07/12/85 | - | - |  |
| \| A630 traction |  |  |  |  |  |  |  |  |  |  |  |  |
| i PWer equip. ncl | 02/01/84 | - | 04/30/84 | 05/29/84 | 11/30/84 | 01/10/85a | 10/03/85 | 04/30/85 |  | - |  |  |
| \| 1612 \& $\mathbf{M} 615$ |  |  |  |  | 1/30/a |  |  |  |  |  |  |  |
| I POUR DNGTNL. |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 02/01/84 | - | \| 07/01/85 | 07/01/85 | 101/31/86 | 01/31/86P | 07/01/86 | 04/30/86 | 00/26/96 | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 1640 C0m\%. | 05/02/83 | - | \| 03/30/85 | 02/19/85 | \| 05/30/85 | 08/19/857 | 12/06/85 | 12/02/85 | 02/03/86 | - | - | - |
|  |  |  |  |  |  |  | 120605 | 12/02/43 | 02/03/86 |  |  | - |
|  |  |  | 1 - |  |  |  |  |  |  |  |  |  |
|  | 05/02/83 | - | 1 07/23/84 | 07/23/84 | 11/01/84 | 03/01/85 | 07/01/85 | 07/01/857 | 00/26/85 | - | $\rightarrow$ | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 M660 FNE |  |  |  |  |  |  |  |  |  |  |  |  |
| COCHECTION | 05/02/83 | - | \| 11/01/84 | 03/29/859 | 06/01/85 | 07/31/85\%\| | 03/18/86 | 02/01/86 | 05/12/66 | $=$ | 1 - | - |
| \| A671 ALS. VEHLC. |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | - |
| 1 LOcomotve | 05/02/83 | $\rightarrow$ | 05/01/84 | 05/11/844 | 10/01/84 | 11/07/84a\| | 02/22/85 | 02/14/85 | 03/18/85 | - | - | - |
| \| A710 ESCNATORS |  |  |  |  |  |  |  | 0214*s | 03/10/0s |  | 1 - |  |
|  | 05/02/83 | - | \| 01/30/84 | | 02/09/84 | 05/02/84 | 06/21/84 | 01/22/86 | 01/14/85 | 03/18/86 | - | 1 - | - |
| A720 Benatios |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 05/02/83 | - | \| 05/01/84 | 07/02/84 | M/A | N/ | 01/22/86 | 01/14/85 | 03/12/86 | - | 1 - | - |
| \| A740 mas |  |  | - 0 1 |  | M |  |  |  |  |  | 1 |  |
|  | 01/15/84 | - | 10402/84 | 04/16/84 | Na | 1/4 | 02/15/35 | 03/15/85 | 04/11/85 | - | , | 4 |
| \| A745 TRSS AIR <br> henting entr. |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 05/15/84 | - | 11/15/84 | 03/01/85 | N/A | 1/4 | 03/15/85 | 04/30/85 | 05/09/85 | - | 1 - | - |
| \| HAOLDGG ERUTP. |  |  |  |  |  |  |  |  |  |  | $1-1$ |  |
| \| a750 tumel | 10/01/83 | - | \| 05/16/84 | | 05/16/844 | 08/15/84 | 08/23/3a\| | 11/16/4 | 03/01/857 | N/2 | $11 / n$ | 1 | 15 |
| \| LDIERS |  |  |  |  |  |  |  |  |  |  |  |  |
| \| A760 Signing |  |  | \| |  |  |  |  |  |  |  | - \| |  |
|  | 02/22/34 | - 1 | \|06/30/84 | | 02/15/857 | 00/01/84 | 03/22/8571 | 00/22/85 | 04/19/85 | 04/18/85 | - | , | 8 |
|  |  |  |  |  |  |  | +12/0s |  | a/3/as | - | , |  |




[^0]:    **
    EXCLUDES PROJECTIONS FOR DESIGN UNITS A671-A679 FOR CONTRACTS TO BE COMPLETED AT MRTC'S fORECAST

