

COST/SCHEDULE STATUS REPORT

AS OF
OCTOBER 31, 1982

WBS 11DAA3116

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I. PRELIMINARY ENGINEERING MASTER SCHEDULE STATUS

PRELIMINARY ENGINEERING MASTER SCHEDULE

THE PROJECT WORK TASKS ARE GENERALLY ON SCHEDULE FOR THE ALIGNMENT UP TO FAIRFAX AND SANTA MONICA STATION. DESIGN AND OPERATIONAL CRITERIA, WBS 13, IS SCHEDULED TO BE COMPLETED IN DECEMBER. A CRITERIA REVIEW TASK FORCE IS CURRENTLY REVIEWING THE DESIGN AND OPERATING CRITERIA AND ARE EXPECTED TO COMPLETE THEIR REVIEW BY THE MIDDLE OF JANUARY. COMPLETION OF THE ALTERNATIVE LAYOUTS AND DESIGNS, WBS 14, ARE STILL DELAYED BY THE HOLLYWOOD/NORTH HOLLYWOOD ALTERNATIVE SPECIAL ANALYSIS. THE SELECTION OF THE PREFERRED ALIGNMENT AND STATIONS, PART OF WBS 15, WILL BE COMPLETED AFTER THE BOARD OF DIRECTORS FULLY ADOPTS MILESTONES 3 & 4. PRELIMINARY DESIGN AND SPECIFICATIONS, WBS 16, ARE BEING PREPARED FOR THE APPROVED ALIGNMENT. PATRONAGE DATA, WHICH HAS BEEN DELAYED, IS NOW EXPECTED TO BE AVAILABLE IN NOVEMBER. TASKS THAT ARE ASSOCIATED WITH THE DRAFT SECOND TIER EIS SUBMITTAL TO UMTA ARE ON SCHEDULE BUT A POTENTIAL PROBLEM COULD EXIST IF ANY SLIPPAGE OCCURS.

RTD METRO RAIL PROJECT PRELIMINARY ENGINEERING MASTER SCHEDULE STATUS

STATUS AS OF: OCTOBER 1982

WBS ELEMENT/MILESTONES	MONTH	1982												1983											
		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
11-PROJECT MANAGEMENT & CONTROL		[Gantt bar spanning from Jan 1982 to Dec 1982]																							
12-PROJECT DEFINITION		[Gantt bar spanning from Jan 1982 to Sep 1982]																							
① Preliminary System Definition & System Operation Plan		[Gantt bar spanning from Jan 1982 to Sep 1982]																							
13-DESIGN & OPERATIONAL CRITERIA		[Gantt bar spanning from Jan 1982 to Dec 1982]																							
② System Design Criteria		[Gantt bar spanning from Jan 1982 to Dec 1982]																							
14-DEVELOPMENT OF ALTERNATIVE LAYOUTS & DESIGNS		[Gantt bar spanning from Jan 1982 to Dec 1982]																							
③ Route Alignment Alternatives		[Gantt bar spanning from Jan 1982 to Dec 1982]																							
④ Station Location Alternatives		[Gantt bar spanning from Jan 1982 to Dec 1982]																							
⑤ Right Of Way & Reloc. Policy		[Gantt bar spanning from Jan 1982 to Dec 1982]																							
⑥ Development & Land-Use Policy		[Gantt bar spanning from Jan 1982 to Dec 1982]																							
15-SELECTION OF PREFERRED SYSTEM CONFIGURATION		[Gantt bar spanning from Apr 1982 to Mar 1983]																							
⑦ Safety, Security, & System Assurance Policy & Requirements		[Gantt bar spanning from Apr 1982 to Mar 1983]																							
⑧ System/Subsystem Configuration		[Gantt bar spanning from Apr 1982 to Mar 1983]																							
⑨ Supporting Service Plan		[Gantt bar spanning from Apr 1982 to Mar 1983]																							
16-PRELIMINARY DESIGN, DRAWINGS, AND SPECIFICATIONS		[Gantt bar spanning from May 1982 to Sep 1982]																							
⑩ Definitive Fixed Facility Plan		[Gantt bar spanning from May 1982 to Sep 1982]																							
⑫ Prelim. Engineering Syst. Plan		[Gantt bar spanning from May 1982 to Sep 1982]																							
17-COST/SCHEDULE ESTIMATES		[Gantt bar spanning from Oct 1982 to Sep 1983]																							
⑪ Preliminary Cost Estimate		[Gantt bar spanning from Oct 1982 to Sep 1983]																							
18-SECOND TIER IMPACT ASSESSMENT		[Gantt bar spanning from Oct 1982 to Dec 1982]																							

LEGEND: TIME NOW [Vertical Dotted Line] MILESTONE [Circle with Star] SCHEDULE [Double Horizontal Line] ACTUAL [Horizontal Line with Dotted Pattern] SCHEDULE SLIP [Horizontal Line with Dashed Pattern]

* FIRE SAFETY COORDINATION MEETINGS HELD PERIODICALLY.



IIA. PRELIMINARY ENGINEERING OBLIGATIONS

PRELIMINARY ENGINEERING OBLIGATIONS

OBLIGATIONS THROUGH OCTOBER, 1982 TOTALED \$27.6 MILLION. THIS WAS \$1.2 MILLION LESS THAN THE CUMULATIVE FORECAST. CONTRIBUTING TO THIS ARE:

1. <\$440,000>- OBLIGATION FOR COMPUTER LEASE TO SUPPORT PATRONAGE DATA GENERATION. THIS AMOUNT WAS NOT INCLUDED IN OUR BUDGET.
2. 1,200,000 - FORECASTED COMMITMENTS FOR KAISER AND BOOZ ALLEN & HAMILTON AMENDMENTS PLANNED TO OCCUR IN OCTOBER BUT NOW EXPECTED IN DECEMBER. (TIMING VARIANCE)
3. 465,000 - FAVORABLE VARIANCE BETWEEN ACTUAL AND FORECASTED METRO RAIL PROJECT STAFF LABOR COSTS TO DATE.

\$1,225,000 BELOW BUDGET OBLIGATIONS THROUGH OCTOBER.

DEFINITION OF TERMS USED:

COMMITMENTS: BUDGET AMOUNTS FOR WORK THAT HAS BEEN ADVERTISED OR FOR WHICH NEGOTIATIONS HAVE BEEN STARTED AND WHICH HAVE BEEN APPROVED BY THE DISTRICT PURCHASING COMMITTEE.

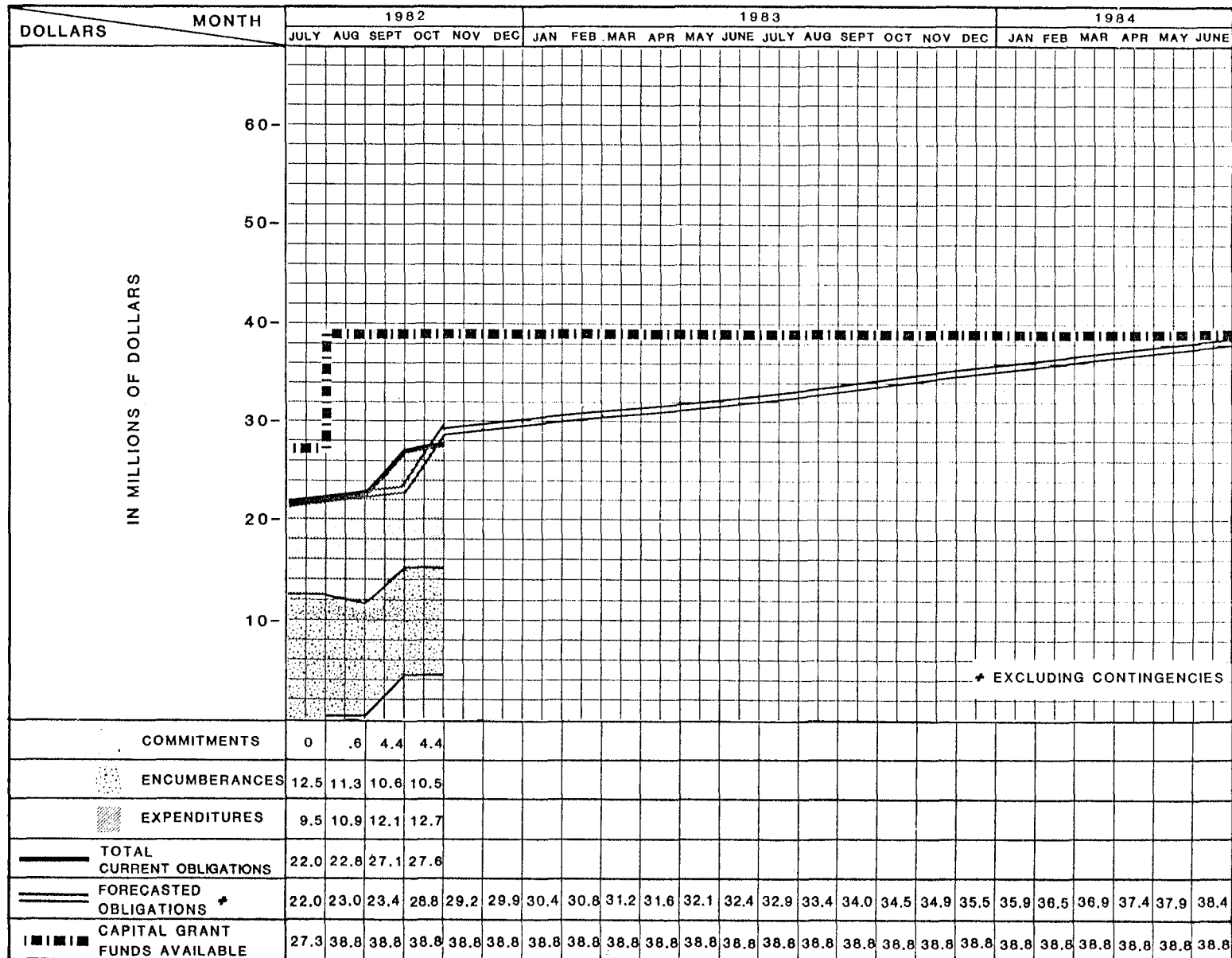
ENCUMBERANCES: CONTRACT AMOUNTS FOR WHICH THERE IS A LEGAL LIABILITY WITH CONSULTANTS. ENCUMBRANCES REPLACE COMMITMENTS.

EXPENDITURES: ACTUAL PAYMENTS. COMMITMENTS AND/OR ENCUMBERANCES ARE REDUCED BY THE AMOUNT OF EXPENDITURES.

TOTAL CURRENT OBLIGATIONS: THE SUM OF COMMITMENTS, ENCUMBERANCES AND EXPENDITURES.

RTD METRO RAIL PROJECT PRELIMINARY ENGINEERING OBLIGATIONS

STATUS AS OF: OCTOBER 1982



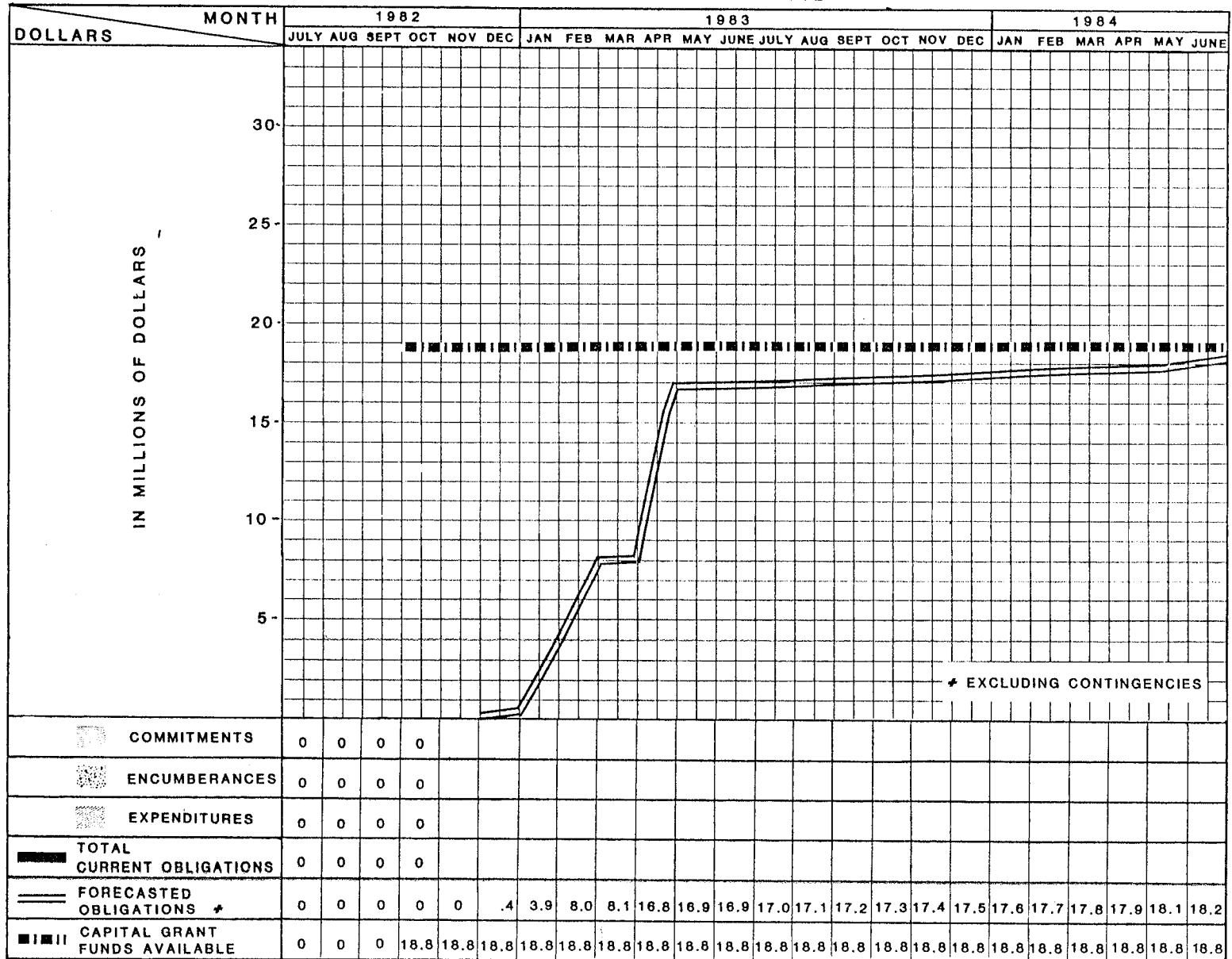
IIB. CONTINUING PRELIMINARY ENGINEERING OBLIGATIONS

CONTINUING PRELIMINARY ENGINEERING OBLIGATIONS

THIS CHART SHOWS FORECASTED OBLIGATIONS (EXCLUDING CONTINGENCIES) FOR CONTINUING PRELIMINARY ENGINEERING. THE \$18,750,000 FOR CONTINUING PRELIMINARY ENGINEERING BECAME AVAILABLE IN OCTOBER, 1982. OBLIGATIONS ARE EXPECTED TO START IN DECEMBER, 1982 WITH MOST MAJOR CONTRACTS SIGNED BY MAY, 1983.

RTD METRO RAIL PROJECT CONTINUING PRELIMINARY ENGINEERING OBLIGATIONS

STATUS AS OF: OCTOBER 1982



III A. PRELIMINARY ENGINEERING EXPENDITURES

PRELIMINARY ENGINEERING EXPENDITURES

EXPENDITURES FOR OCTOBER, 1982 TOTALED \$.6 MILLION. THIS WAS APPROXIMATELY \$800,000 LESS THAN PROJECTED. THE REASONS FOR THIS VARIANCE INCLUDE:

1. \$524,000 LESS IN CONSULTANT INVOICES;
2. \$300,000 LESS IN STAFF LABOR. \$150,000 OF THIS VARIANCE WAS AN ADJUSTMENT REDUCING METRO RAIL'S OVERHEAD RATE FROM 85% TO 74.8% FOR FY'82 AND FY'83; AND
3. <\$32,000>OVER BUDGET-TO-DATE IN SUPPORT EQUIPMENT & SERVICES.

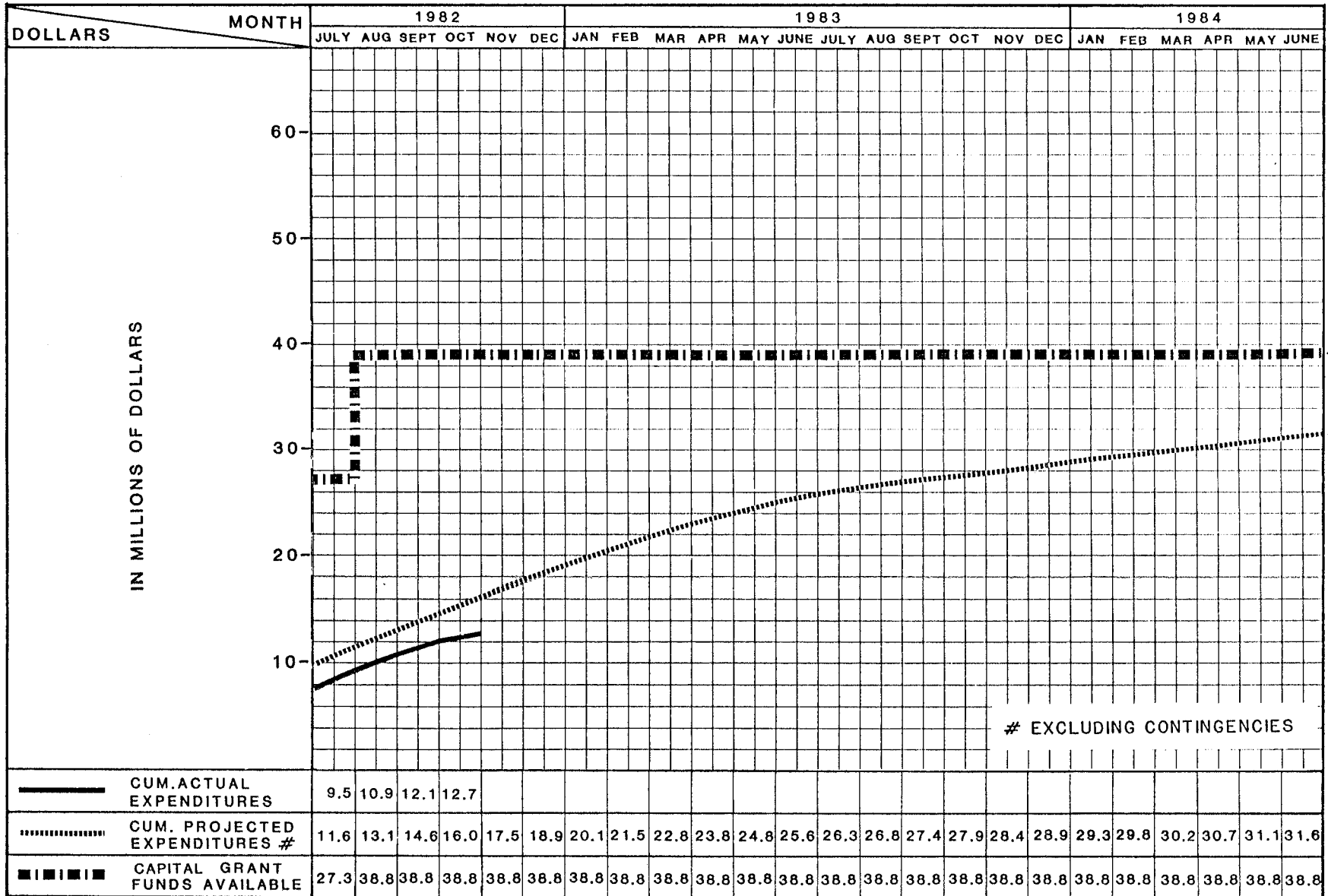
THE CUMULATIVE VARIANCE THROUGH OCTOBER IS \$3.3 MILLION (OR 21%) BELOW BUDGET. THIS CONSISTS OF:

1. PROFESSIONAL SERVICES CONTRACTS; WHICH ARE \$2.85 MILLION (OR 27%) BELOW PROJECTED EXPENDITURES; AND
2. STAFF LABOR, WHICH IS \$465,000 (OR 11%) BELOW PROJECTED EXPENDITURES.

NOTE: THE REMAINING \$6.8 MILLION (EXCLUDING CONTINGENCIES) IS RESERVED FOR PROFESSIONAL SERVICES CONTRACTS AND WILL BE ADDED TO THE PROJECTED EXPENDITURE CURVE WHEN THE CONTRACTS ARE ENCUMBERED.

RTD METRO RAIL PROJECT PRELIMINARY ENGINEERING EXPENDITURES

STATUS AS OF: OCTOBER 1982



II B. CONTINUING PRELIMINARY ENGINEERING EXPENDITURES

CONTINUING PRELIMINARY ENGINEERING EXPENDITURES

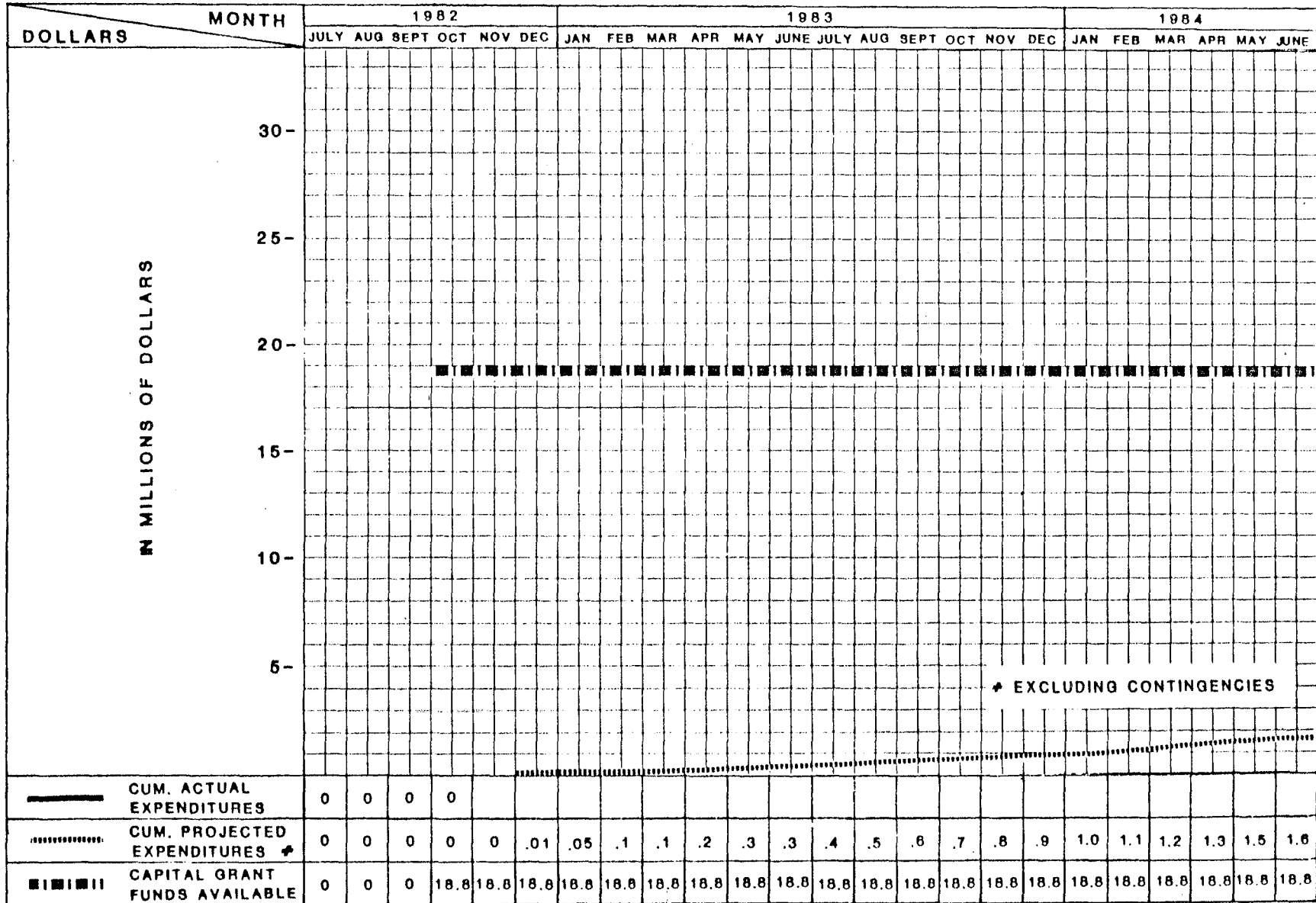
THIS CHART SHOWS THE PROJECTED EXPENDITURES (EXCLUDING CONTINGENCIES) FOR CONTINUING PRELIMINARY ENGINEERING. THE \$18,750,000 FOR CONTINUING PRELIMINARY ENGINEERING BECAME AVAILABLE IN OCTOBER, 1982.

NOTE: THE REMAINING \$16.6 MILLION (EXCLUDING CONTINGENCIES) IS RESERVED FOR PROFESSIONAL SERVICES CONTRACTS AND WILL BE ADDED TO THE PROJECTED EXPENDITURE CURVE WHEN THE CONTRACTS ARE ENCUMBERED.

RTD METRO RAIL PROJECT

CONTINUING PRELIMINARY ENGINEERING EXPENDITURES

STATUS AS OF: OCTOBER 1982



SEE NOTE

† EXCLUDING CONTINGENCIES

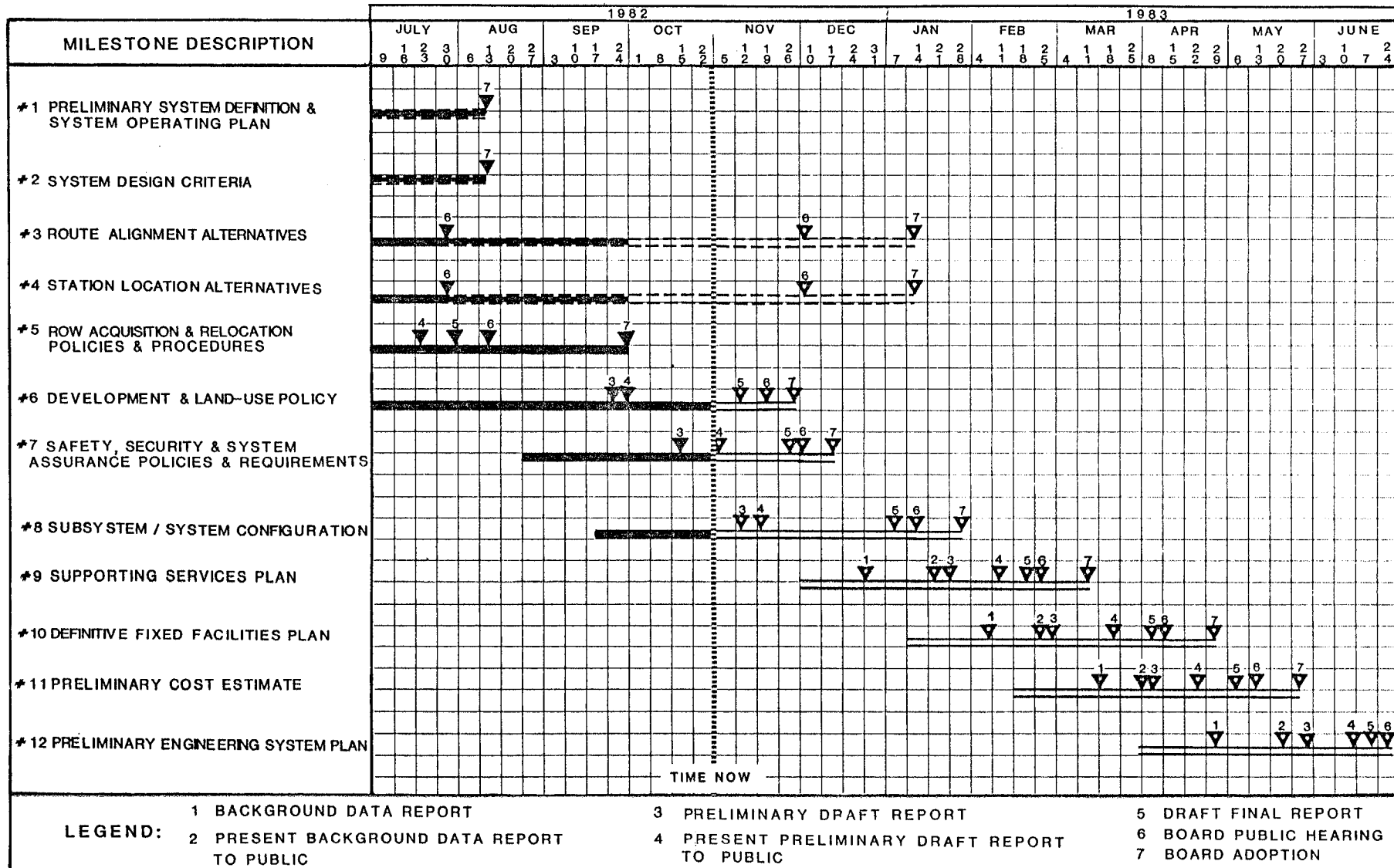
IV. MILESTONE SUMMARY SCHEDULE STATUS

MILESTONE SUMMARY SCHEDULE STATUS

PROJECT MILESTONES 1, 2 AND 5 HAVE BEEN ADOPTED BY THE BOARD OF DIRECTORS. WORK IS PROCEEDING ON THE HOLLYWOOD/NORTH HOLLYWOOD ALTERNATIVES SPECIAL ANALYSIS WHICH HAS DELAYED THE FULL ADOPTION OF MILESTONES 3 & 4. A BOARD OF DIRECTORS PUBLIC HEARING ON THE SPECIAL ANALYSIS IS SCHEDULED FOR DECEMBER 8. FULL ADOPTION OF MILESTONES 3 & 4 IS PLANNED FOR EARLY JANUARY, 1983. WORK IS PROCEEDING ON MILESTONE 6 WITH A BOARD OF DIRECTORS PUBLIC HEARING SCHEDULED FOR NOVEMBER 18. THE PRELIMINARY DRAFT REPORT FOR MILESTONE 7 WAS COMPLETED IN LATE OCTOBER AND WILL BE PRESENTED THE FIRST WEEK IN NOVEMBER TO THE PUBLIC. THE PRELIMINARY DRAFT REPORT FOR MILESTONE 8 IS ON SCHEDULE FOR COMPLETION IN EARLY NOVEMBER.

RTD METRO RAIL PROJECT MILESTONE SUMMARY SCHEDULE STATUS

STATUS AS OF: OCTOBER 1982



V. MAJOR CONSULTANTS SCHEDULE AND COST STATUS

DMJM/PBQD

HARRY WEESE & ASSOCIATES

KAISER ENGINEERS

BOOZ-ALLEN & HAMILTON

SEDWAY/COOKE

CITY OF LOS ANGELES

MAJOR CONSULTANT SCHEDULE STATUS

CONSULTANT : DMJM/PBQD

AUDIT NO. : 2440

RESPONSIBLE DIVISION / SECTION & MANAGER : WAYS & STRUCTURES - J. CRAWLEY		
CONTRACT TITLE & MANAGER : WAYS & STRUCTURES GENERAL ENGR. CONSULTANT - H. CHALIFF		
CONTRACT START : 12-01-81	CONTRACT FINISH : 12-01-83	% CONTRACT COMPLETE : 55
ORIGINAL BUDGET : \$2,877,064	CURRENT BUDGET : \$ 2,877,064	% BUDGET EXPENDED : 55
ORIGINAL BUDGETED HOURS : 49,800	CURRENT BUDGETED HOURS : 52,345	% HOURS EXPENDED : 64
WORK AUTHORIZATIONS -	+ ISSUED : 45	HOURS AUTHORIZED : 42,515
	+ COMPLETE : 23	% AUTHORIZED HOURS EXPENDED : 79

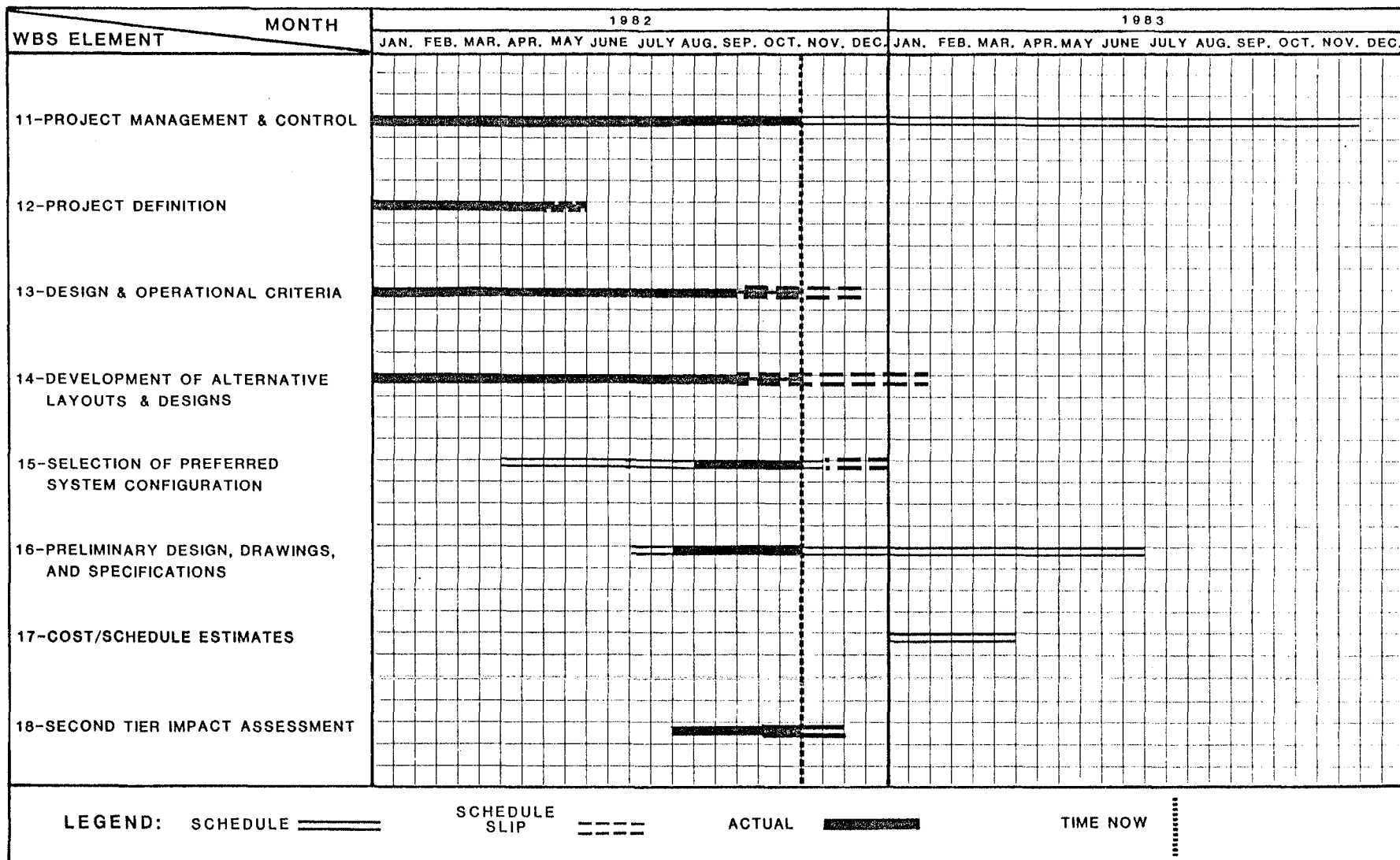
DMJM/PBQD HAS EXPENDED 64% OF LABOR HOURS AGAINST AN EXPECTED 64% THROUGH OCTOBER.

MAJOR CONSULTANT EFFORTS CONTINUED TO CONCENTRATE ON HOLLYWOOD/NORTH HOLLYWOOD ALTERNATIVES AND ON CIVIL/STRUCTURAL DESIGN OF THE APPROVED DOWNTOWN AND WILSHIRE SEGMENTS. WORK NOT ASSOCIATED WITH THE HOLLYWOOD/NORTH HOLLYWOOD SPECIAL ANALYSIS IS ESSENTIALLY ON SCHEDULE. THERE ARE SOME DELAYS IN WBS 13 RESULTING FROM DELAYS IN CORROSION CONTROL AND FIRE PROTECTION INPUTS AND IN WBS 14 AND 15 RESULTING FROM THE SPECIAL ANALYSIS FOR HOLLYWOOD/NORTH HOLLYWOOD ALTERNATIVES.

RTD METRO RAIL PROJECT MAJOR CONSULTANT SCHEDULE STATUS

CONSULTANT: DMJM/PBQD

STATUS AS OF: OCTOBER 1982



MAJOR CONSULTANT COST STATUS

CONSULTANT : DMJM/PBQD

AUDIT NO. : 2440

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ORIGINAL BUDGETED HOURS : 49,800	CURRENT BUDGETED HOURS : 52,345	% HOURS EXPENDED : 64
WORK AUTHORIZATIONS -	+ ISSUED : 45	HOURS AUTHORIZED : 42,515
	+ COMPLETE : 23	% AUTHORIZED HOURS EXPENDED : 79

DMJM/PBQD HAS EXPENDED 55% OF BUDGET AGAINST AN EXPECTED 66% THROUGH OCTOBER.

ACTUAL COSTS CONTINUE TO LAG PROJECTIONS BY 11% BECAUSE OF HEAVY EMPLOYMENT OF LESS EXPENSIVE DRAFTING PEOPLE WORKING ON THE HOLLYWOOD/NORTH HOLLYWOOD SPECIAL ANALYSIS. ADDITIONALLY, SUBCONTRACTORS COSTS ARE SEVERAL WEEKS BEHIND THE REPORTING PERIOD.

NEGOTIATIONS ARE UNDERWAY FOR AN AMENDMENT WHICH IS ANTICIPATED TO BE SIGNED IN NOVEMBER.



RTD METRO RAIL PROJECT MAJOR CONSULTANT COST STATUS

CONSULTANT: DMJM/PBQD
STATUS AS OF: OCTOBER 1982



MAJOR CONSULTANT SCHEDULE STATUS

CONSULTANT : HARRY WEESE AND ASSOCIATES

AUDIT NO. : 2510

RESPONSIBLE DIVISION / SECTION & MANAGER : STATIONS - D. LOW		
CONTRACT TITLE & MANAGER : STATIONS/GENERAL ARCHITECTURAL CONSULTANT - H. KIVETT		
CONTRACT START : 12-22-81	CONTRACT FINISH : 12-22-83	% CONTRACT COMPLETE : 37
ORIGINAL BUDGET : \$ 3,348,480	CURRENT BUDGET : \$ 3,348,480	% BUDGET EXPENDED : 37
ORIGINAL BUDGETED HOURS : 58,657	CURRENT BUDGETED HOURS : 58,657	% HOURS EXPENDED : 39
WORK AUTHORIZATIONS -	+ ISSUED : 27	HOURS AUTHORIZED : 28,810
	+ COMPLETE : 3	% AUTHORIZED HOURS EXPENDED : 78

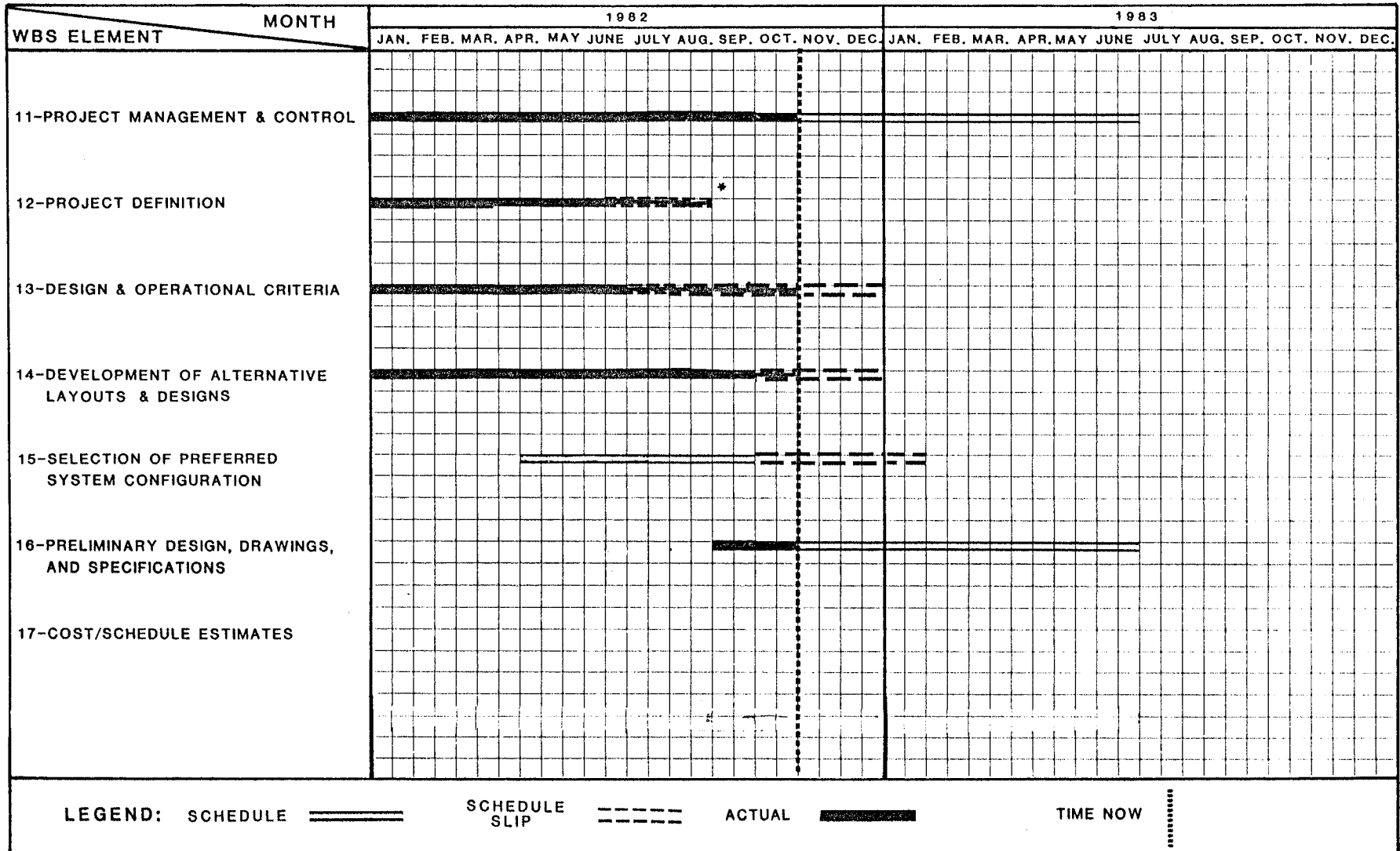
HARRY WEESE AND ASSOCIATES HAVE EXPENDED 39% OF THEIR LABOR HOURS AGAINST AN EXPECTED 42% THROUGH OCTOBER.

WORK IS PROCEEDING ON AUTHORIZED TASKS UNDER WBS 11, 12, 13, 14, & 16. TASKS BEHIND SCHEDULE ARE 13B (DESIGN AND OPERATIONAL CRITERIA) AND 14B (DEVELOP ALTERNATIVE LAYOUTS AND DESIGNS). DESIGN AND OPERATIONAL CRITERIA IS SUBSTANTIALLY COMPLETED AND A REVIEW OF THE FINAL REPORT BY THE SPECIAL TECHNICAL COORDINATING COMMITTEE IS EXPECTED TO BE COMPLETE BY JANUARY, 1983. THE 14B WORK FOR THE FIRST 12 STATIONS HAS BEEN SUBMITTED. THE INFORMATION FOR THE FINAL FOUR STATIONS WILL BE PROVIDED IN DECEMBER, 1982. THE DELAY IS THE RESULT OF THE CONTINUING NORTH HOLLYWOOD ALTERNATIVES ANALYSIS.

RTD METRO RAIL PROJECT MAJOR CONSULTANT SCHEDULE STATUS

CONSULTANT: HARRY WEESE & ASSOCIATES

STATUS AS OF: OCTOBER 1982



* FIRE SAFETY COORDINATION MEETINGS HELD PERIODICALLY.

MAJOR CONSULTANT COST STATUS

CONSULTANT : HARRY WEESE AND ASSOCIATES

AUDIT NO. : 2510

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ORIGINAL BUDGET : \$ 3,348,480	CURRENT BUDGET : \$ 3,348,480	% BUDGET EXPENDED : 37
ORIGINAL BUDGETED HOURS : 58,657	CURRENT BUDGETED HOURS : 58,657	% HOURS EXPENDED : 39
WORK AUTHORIZATIONS -	* ISSUED : 27	HOURS AUTHORIZED : 28,810
	* COMPLETE : 3	% AUTHORIZED HOURS EXPENDED : 78

HARRY WEESE AND ASSOCIATES HAVE EXPENDED 37% OF THEIR BUDGET AGAINST AN EXPECTED 44% THROUGH OCTOBER.

COSTS CONTINUE TO LAG BEHIND BUDGET BECAUSE STAFF WHICH WAS ORIGINALLY ANTICIPATED TO BE HIRED IN JUNE & JULY, 1982 DID NOT COME ON BOARD UNTIL LATE AUGUST AND SEPTEMBER. COSTS SHOULD MOVE CLOSER TO BUDGET STARTING IN JANUARY, 1983.

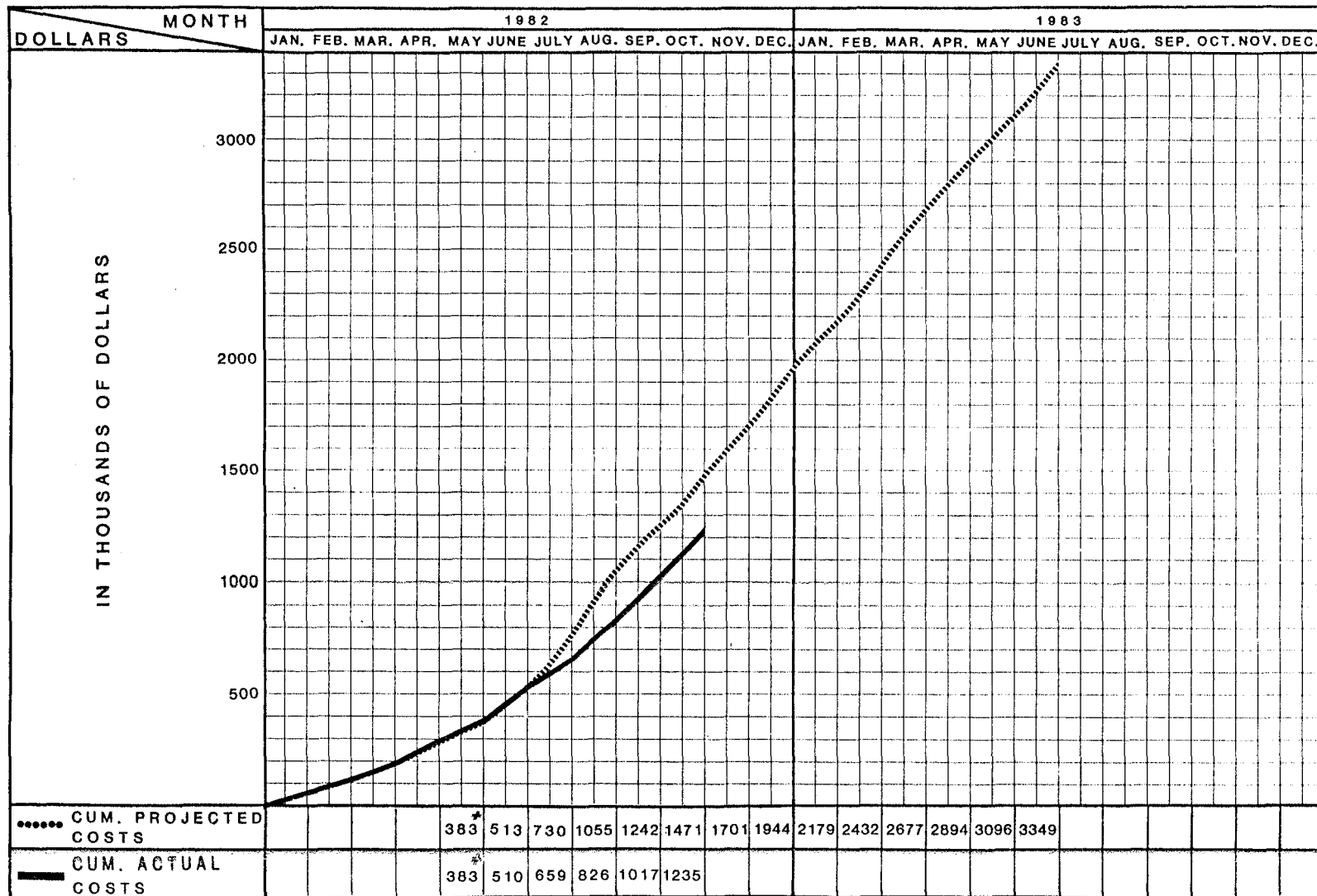
THE CONTRACT AMENDMENT WITH HARRY WEESE AND ASSOCIATES FOR \$1,201,500 IS EXPECTED TO BE SIGNED IN LATE NOVEMBER OR EARLY DECEMBER.



RTD METRO RAIL PROJECT MAJOR CONSULTANT COST STATUS

CONSULTANT: HARRY WEESE & ASSOCIATES

STATUS AS OF: OCTOBER 1982



* CUM. THRU MAY

MAJOR CONSULTANT SCHEDULE STATUS

CONSULTANT : KAISER ENGINEERS

AUDIT NO. : 2439

RESPONSIBLE DIVISION / SECTION & MANAGER : SYSTEMS DESIGN - W. RHINE		
CONTRACT TITLE & MANAGER : SUBSYSTEMS GENERAL ENGR. CONSULTANT - P. M. BURGESS		
CONTRACT START : 12-01-81	CONTRACT FINISH : 12-01-83	% CONTRACT COMPLETE : 50
ORIGINAL BUDGET : \$ 2,102,000	CURRENT BUDGET : \$ 2,591,200	% BUDGET EXPENDED : 48
ORIGINAL BUDGETED HOURS : 40,600	CURRENT BUDGETED HOURS : 46,700	% HOURS EXPENDED : 57
WORK AUTHORIZATIONS - # ISSUED : 56	HOURS AUTHORIZED : 34,014	
# COMPLETE : 16	% AUTHORIZED HOURS EXPENDED : 78	

KAISER ENGINEERS HAS EXPENDED 57% OF LABOR HOURS AGAINST AN EXPECTED 46% THROUGH OCTOBER.

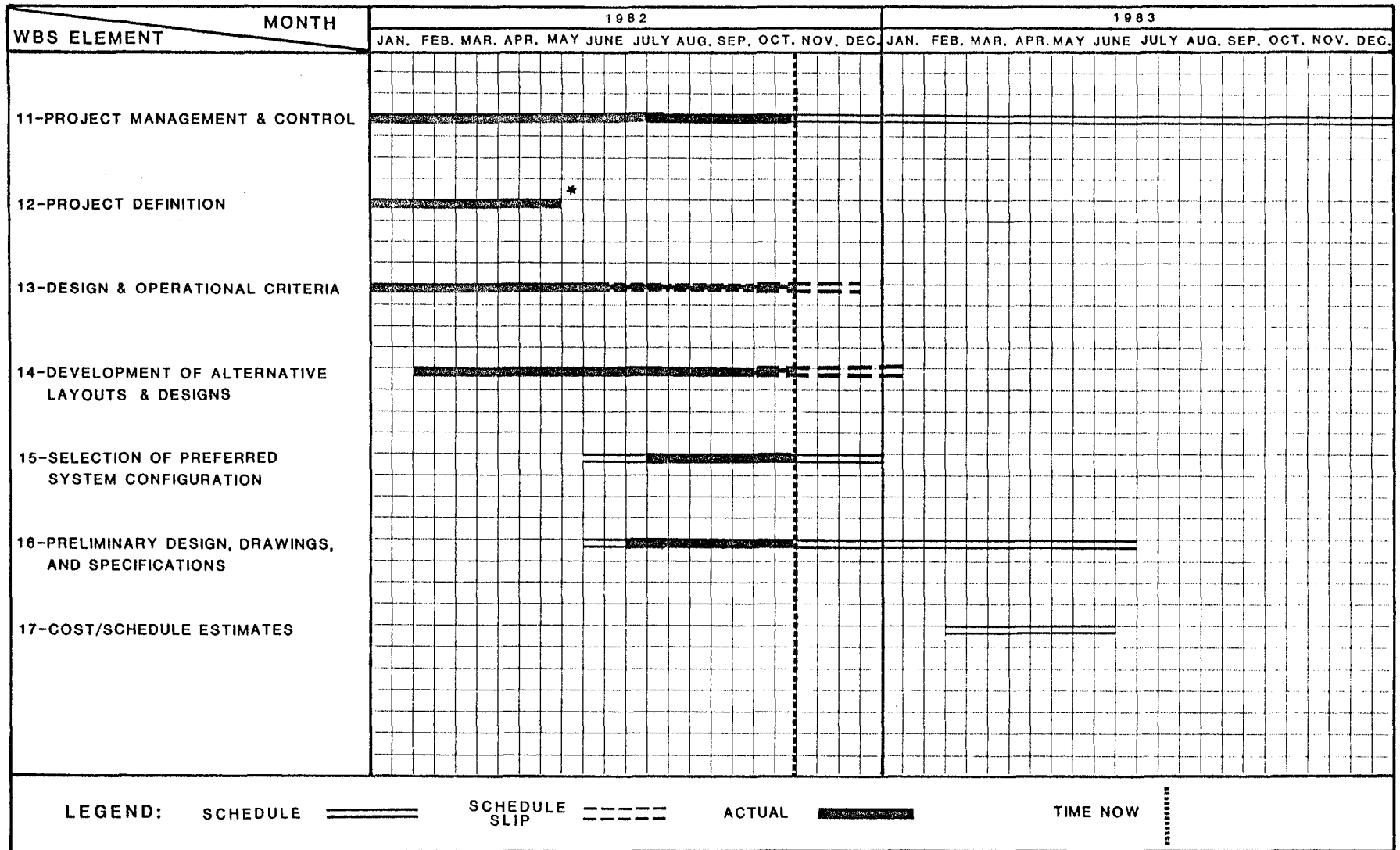
THE INCREASED LABOR HOUR USAGE THROUGH OCTOBER OF 11% IS PRIMARILY DUE TO EXTENSIVE REVISION OF ALTERNATIVE LAYOUTS AND DESIGNS, WBS 14 TASKS. TWO FIRE/LIFE SAFETY (F/LS) MEETINGS WERE HELD AND RECOMMENDED FORMAT, PROCEDURES AND AGREEMENTS WERE DEVELOPED FOR A CONTINUING F/LS COMMITTEE TO FUNCTION DURING FINAL DESIGN AND CONSTRUCTION. ALTERNATIVE LAYOUTS AND DESIGNS DRAFT REPORTS, WBS 14, ARE UNDER REVISION WITH THE FINAL TASK REPORTS EXPECTED TO BE COMPLETED IN DECEMBER. AN EXCEPTION IS WBS 14DAC, FIRE PROTECTION WHICH WILL BE COMPLETED IN JANUARY AFTER ALL OTHER WBS 14 TASKS HAVE BEEN COMPLETED.

PREPARATION OF PRELIMINARY DESIGN WORK PROGRAM CONTINUED FOR WBS 16 TASKS. THERE ARE NO DELAYS WHICH WILL IMPACT THE PROJECT.

RTD METRO RAIL PROJECT MAJOR CONSULTANT SCHEDULE STATUS

CONSULTANT: KAISER ENGINEERS

STATUS AS OF: OCTOBER 1982



* FIRE SAFETY COORDINATION MEETINGS HELD PERIODICALLY.

MAJOR CONSULTANT COST STATUS

CONSULTANT : KAISER ENGINEERS

AUDIT NO. : 2439

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ORIGINAL BUDGET : \$ 2,102,000	CURRENT BUDGET : \$ 2,591,200	% BUDGET EXPENDED : 48
ORIGINAL BUDGETED HOURS : 40,600	CURRENT BUDGETED HOURS : 46,700	% HOURS EXPENDED : 57
WORK AUTHORIZATIONS -	+ ISSUED : 56	HOURS AUTHORIZED : 34,014
	+ COMPLETE : 16	% AUTHORIZED HOURS EXPENDED : 78

KAISER ENGINEERS HAS EXPENDED 48% OF BUDGET AGAINST AN EXPECTED 46% THROUGH OCTOBER.

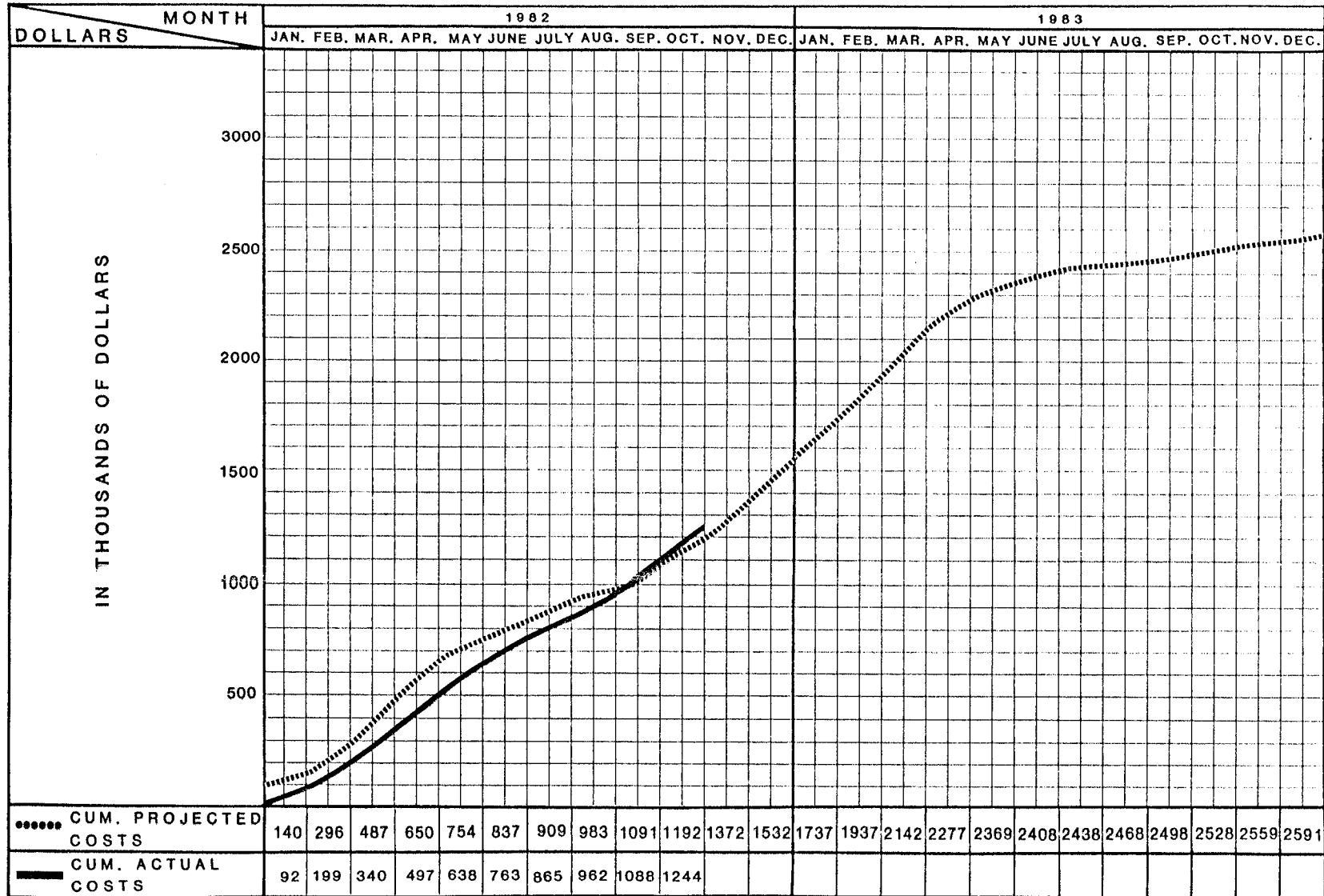
THE HIGHER EXPENDITURE RATE THROUGH OCTOBER IS PRIMARILY DUE TO EXTENSIVE REVISION OF ALTERNATIVE LAYOUTS AND DESIGNS, WBS 14 TASKS. NEGOTIATIONS ARE UNDERWAY FOR A CONTRACT AMENDMENT THAT INCLUDES OPTIONAL SERVICES. THE CONTRACT AMENDMENT IS EXPECTED TO BE SIGNED IN DECEMBER.



RTD METRO RAIL PROJECT MAJOR CONSULTANT COST STATUS

CONSULTANT: KAISER ENGINEERS

STATUS AS OF: OCTOBER 1982



MAJOR CONSULTANT SCHEDULE STATUS

CONSULTANT : BOOZ-ALLEN & HAMILTON

AUDIT NO. : 2434

RESPONSIBLE DIVISION / SECTION & MANAGER : SYSTEMS ENGINEERING & ANALYSIS - W. RHINE		
CONTRACT TITLE & MANAGER : SYSTEMS ENGINEERING ANALYSIS CONSULTANT - F. CONDOS		
CONTRACT START : 07-13-81	CONTRACT FINISH : 07-13-83	% CONTRACT COMPLETE : 59
ORIGINAL BUDGET : \$ 981,000	CURRENT BUDGET : \$ 2,523,891	% BUDGET EXPENDED : 70
ORIGINAL BUDGETED HOURS : 8,589	CURRENT BUDGETED HOURS : 21,349	% HOURS EXPENDED : 80
WORK AUTHORIZATIONS -	+ ISSUED : 22	HOURS AUTHORIZED : 17,636
	+ COMPLETE : 8	% AUTHORIZED HOURS EXPENDED : 96

BOOZ-ALLEN & HAMILTON HAS EXPENDED 80% OF LABOR HOURS ABAINST AN EXPECTED 72% THROUGH OCTOBER.

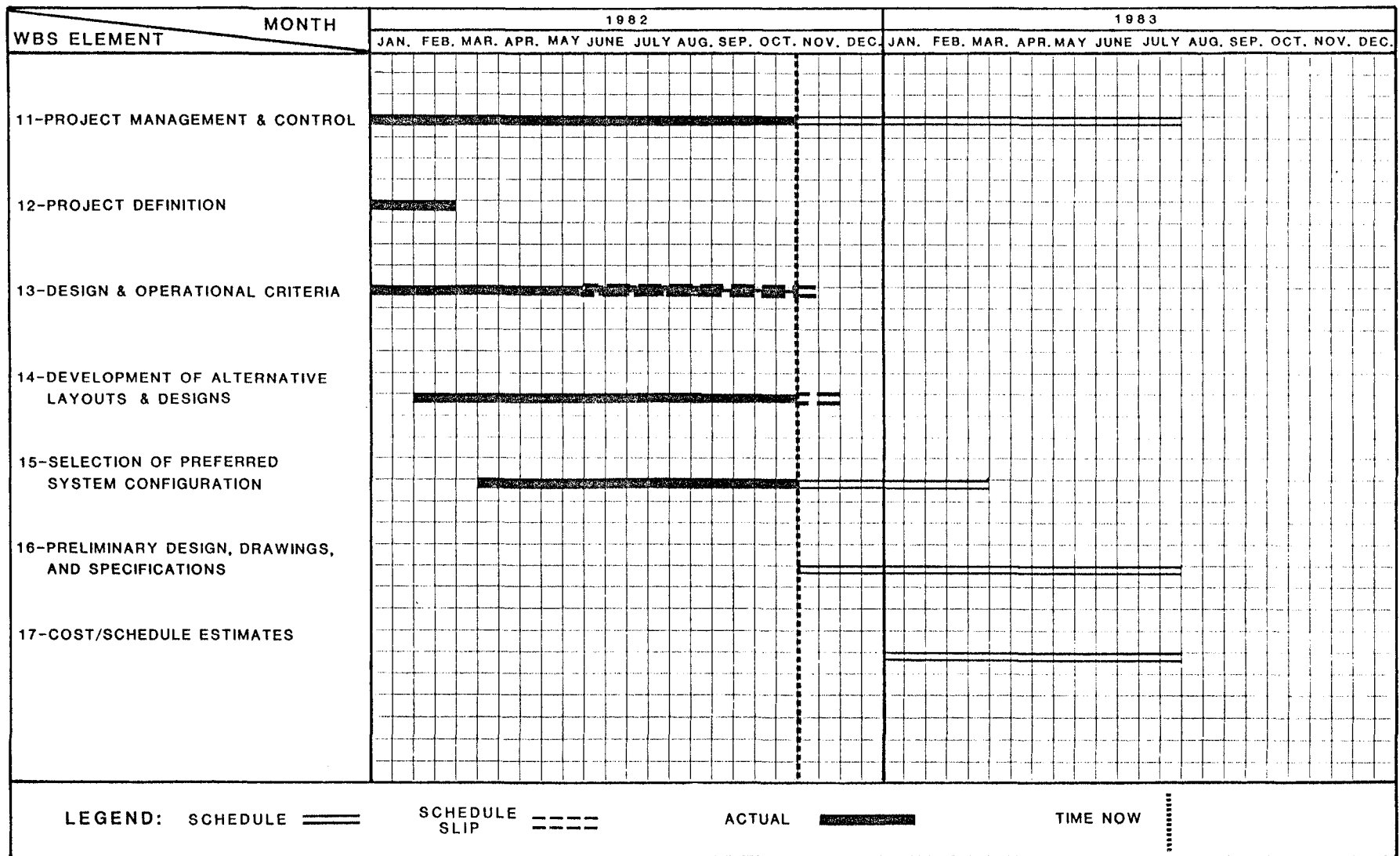
THE INCREASED LABOR HOUR USAGE THROUGH OCTOBER OF 8% IS PRIMARILY DUE TO THE HOLLYWOOD/NORTH HOLLYWOOD ALTERNATIVES SPECIAL ANALYSIS THAT IS NOT IN THE CONTRACT SCOPE OF WORK. THE INCREASED LABOR HOUR USAGE FOR THE SPECIAL ANALYSIS HAS CAUSED SOME SLIPPAGE IN OTHER TASKS, PRIMARILY THE COMPLETION OF CRITERIA AND PROGRAM PLANS, WBS 13 AND COMPLETION OF A REVISION TO THE SYSTEM SPECIFCATIONS. THE OPERATIONS SIMULATOR MODEL WHICH WAS DELAYED, IS NOW COMPLETED.

MOST OF THE WBS 14 TASKS WILL BE COMPLETED IN LATE NOVEMBER WITH THE EXCEPTION OF 14DAB, SYSTEM SIMULATION AND ANALYSIS, WHICH WILL BE COMPLETED AFTER THE BOARD OF DIRECTORS ADOPTS THE FULL ALIGNMENT. A PRELIMINARY DRAFT OF THE MILESTONE 7 REPORT WAS COMPLETED AND PREPARATION OF MILESTONE 8 WAS STARTED. THERE ARE NO DELAYS WHICH WILL IMPACT THE PROJECT.

RTD METRO RAIL PROJECT MAJOR CONSULTANT SCHEDULE STATUS

CONSULTANT: BOOZ-ALLEN & HAMILTON

STATUS AS OF: OCTOBER 1982



MAJOR CONSULTANT COST STATUS

CONSULTANT : BOOZ-ALLEN & HAMILTON

AUDIT NO. : 2434

RESPONSIBLE DIVISION / SECTION & MANAGER : SYSTEMS ENGINEERING & ANALYSIS - W. RHINE		
CONTRACT TITLE & MANAGER : SYSTEMS ENGINEERING ANALYSIS CONSULTANT - F. CONDOS		
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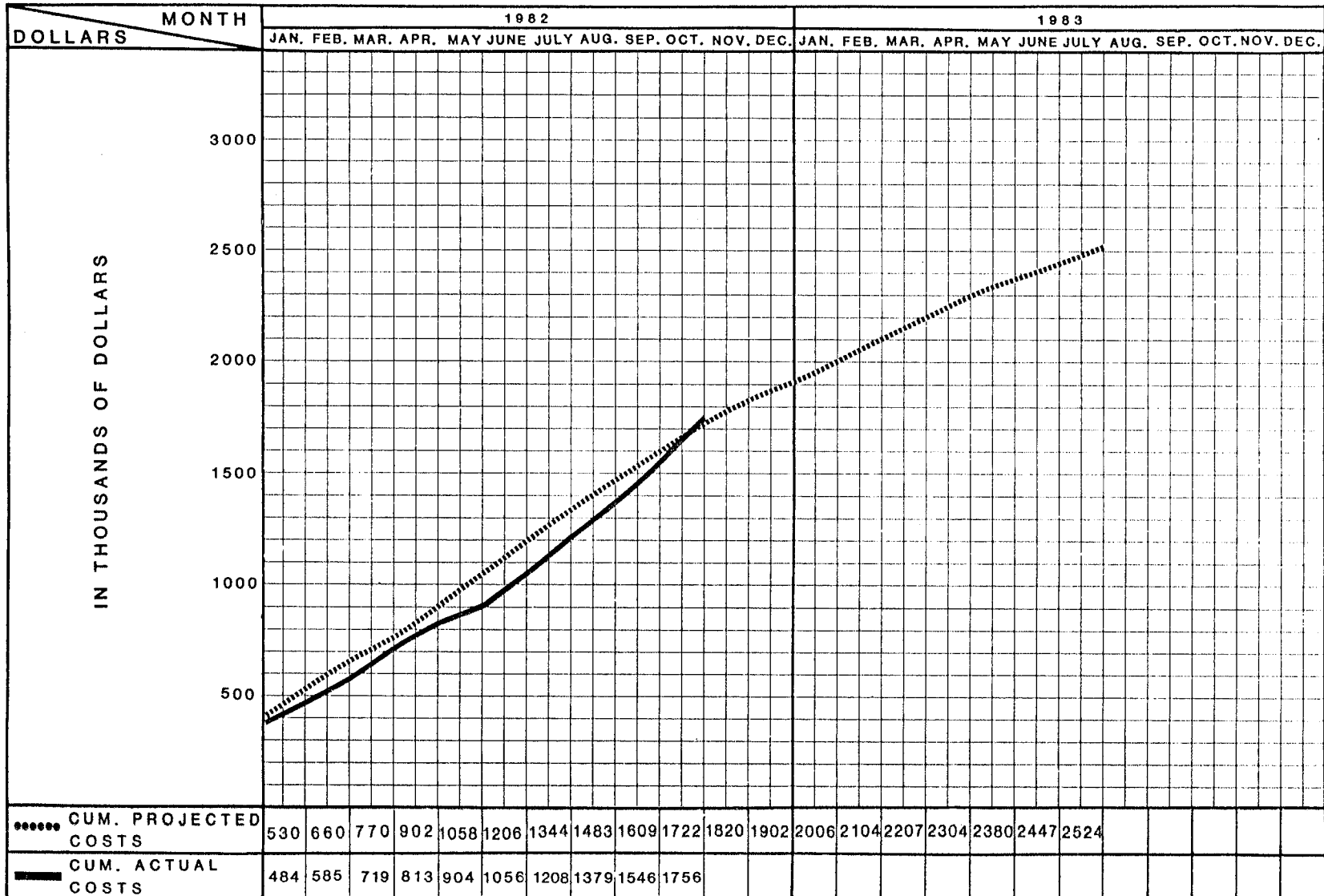
BOOZ-ALLEN & HAMILTON HAS EXPENDED 70% OF BUDGET AGAINST AN EXPECTED 69% THROUGH OCTOBER.

THE SPENDING RATE FOR THE CONTRACT THROUGH OCTOBER IS ONLY 1% HIGHER THAN PLANNED. HOWEVER, THE SPENDING RATE FOR THE MONTH OF OCTOBER IS 83% HIGHER THAN PLANNED DUE TO THE HOLLYWOOD/ NORTH HOLLYWOOD ALTERNATIVES SPECIAL ANALYSIS THAT IS NOT IN THE CONTRACT SCOPE OF WORK. THIS HIGHER RATE IS EXPECTED TO CONTINUE THROUGH EARLY DECEMBER. AN AMENDMENT IS EXPECTED TO BE NEGOTIATED IN NOVEMBER WHICH WILL INCLUDE THE SPECIAL ANALYSIS, THE MINIMUM OPERABLE SEGMENT ANALYSIS, EXPANDED ROLES IN SUPPORT OF MILESTONE REPORTS AND OPERATING AND MAINTENANCE COST ESTIMATION.

RTD METRO RAIL PROJECT MAJOR CONSULTANT COST STATUS

CONSULTANT: BOOZ-ALLEN & HAMILTON

STATUS AS OF: OCTOBER 1982



MAJOR CONSULTANT SCHEDULE STATUS

CONSULTANT : SEDWAY/COOKE

AUDIT NO. : 2419

RESPONSIBLE DIVISION / SECTION & MANAGER : STATIONS - D. LOW		
CONTRACT TITLE & MANAGER : GENERAL ENV. IMPACT CONSULTANT - F. ETZEL		
CONTRACT START : 09-01-81	CONTRACT FINISH : 08-31-83	% CONTRACT COMPLETE : 55
ORIGINAL BUDGET : \$950,000	CURRENT BUDGET : \$ 1,525,000	% BUDGET EXPENDED : 58
ORIGINAL BUDGETED HOURS : 22,560	CURRENT BUDGETED HOURS : 33,037	% HOURS EXPENDED : 59
WORK AUTHORIZATIONS -	* ISSUED : 25	HOURS AUTHORIZED : 14,262
	* COMPLETE : 14	% AUTHORIZED HOURS EXPENDED : 137.5

SEDWAY/COOKE HAS EXPENDED 59% OF THEIR AMENDED LABOR HOURS. THE EXPECTED LABOR HOUR FIGURE WILL BE AVAILABLE WHEN A NEW LABOR PLAN REFLECTING THE \$490,000 AMENDMENT IS SUBMITTED.

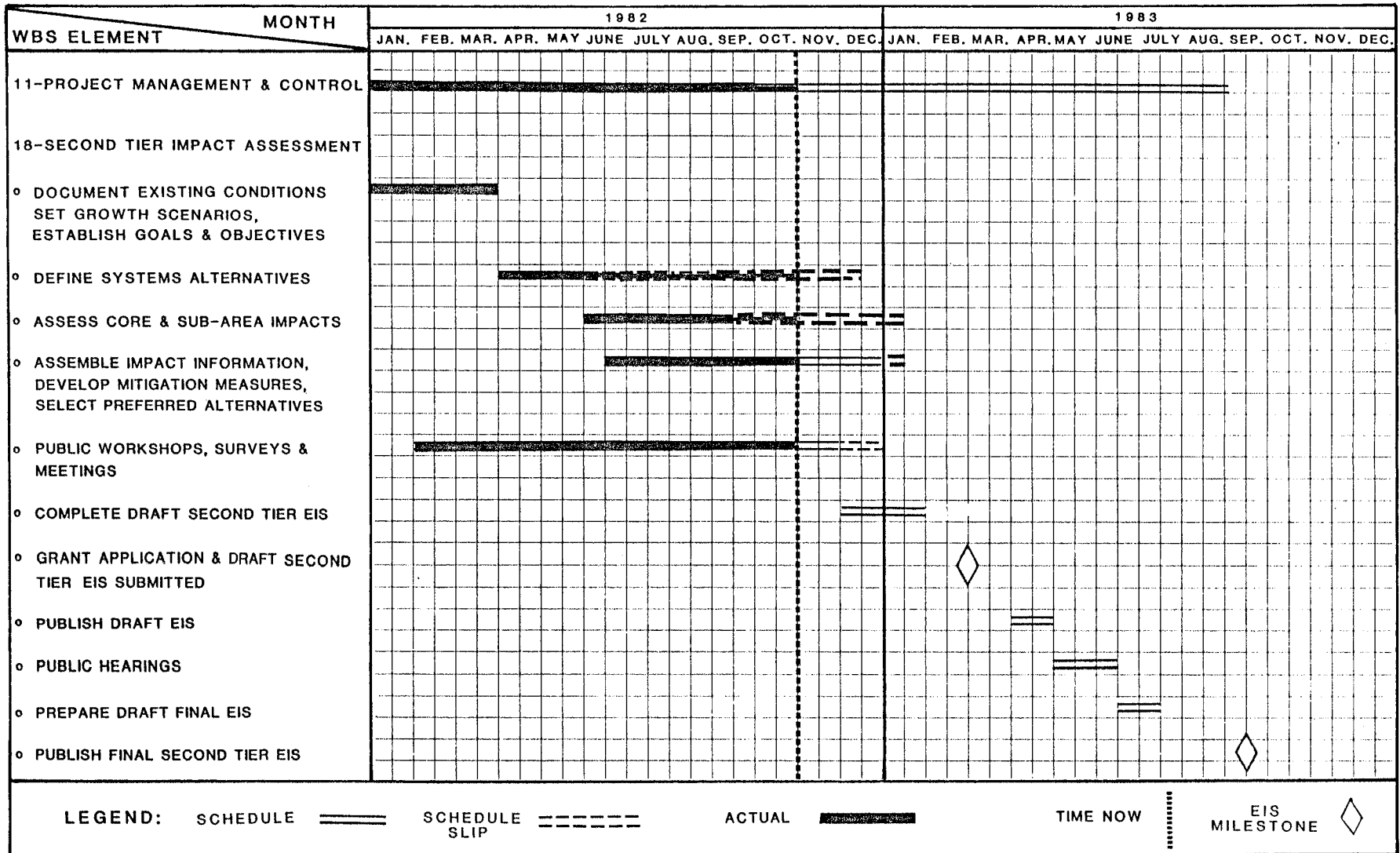
TASKS UNDER WBS 18BAD (DEFINE SYSTEM ALTERNATIVES) AND 18BAH (ANALYSIS OF SUB-AREA IMPACTS) CONTINUE TO BE BEHIND SCHEDULE DUE TO THE ADDITIONAL ALTERNATIVES STUDY. THE DELAY IN 18BAH HAS CAUSED A SCHEDULE SLIPPAGE IN 18BAJ (REGIONAL SCALE EFFECTS AND MITIGATION MEASURES). THE IMPACT OF THE DELAY IN COMPLETION OF THESE TASKS IS THAT THE TIME AVAILABLE TO COMPLETE THE EIS HAS BEEN COMPRESSED. HOWEVER, THE EIS IS STILL EXPECTED TO BE COMPLETED ON FEBRUARY 1, 1983.



RTD METRO RAIL PROJECT MAJOR CONSULTANT SCHEDULE STATUS

CONSULTANT: SEDWAY / COOKE

STATUS AS OF: OCTOBER 1982



MAJOR CONSULTANT COST STATUS

CONSULTANT : SEDWAY/COOKE

AUDIT NO. : 2419

RESPONSIBLE DIVISION / SECTION & MANAGER : STATIONS - D. LOW		
CONTRACT TITLE & MANAGER : GENERAL ENV. IMPACT CONSULTANT - F. ETZEL		
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ORIGINAL BUDGETED HOURS : 22,560	CURRENT BUDGETED HOURS : 33,037	% HOURS EXPENDED : 59
WORK AUTHORIZATIONS -	* ISSUED : 25	HOURS AUTHORIZED : 14,262
	* COMPLETE : 14	% AUTHORIZED HOURS EXPENDED : 137.5

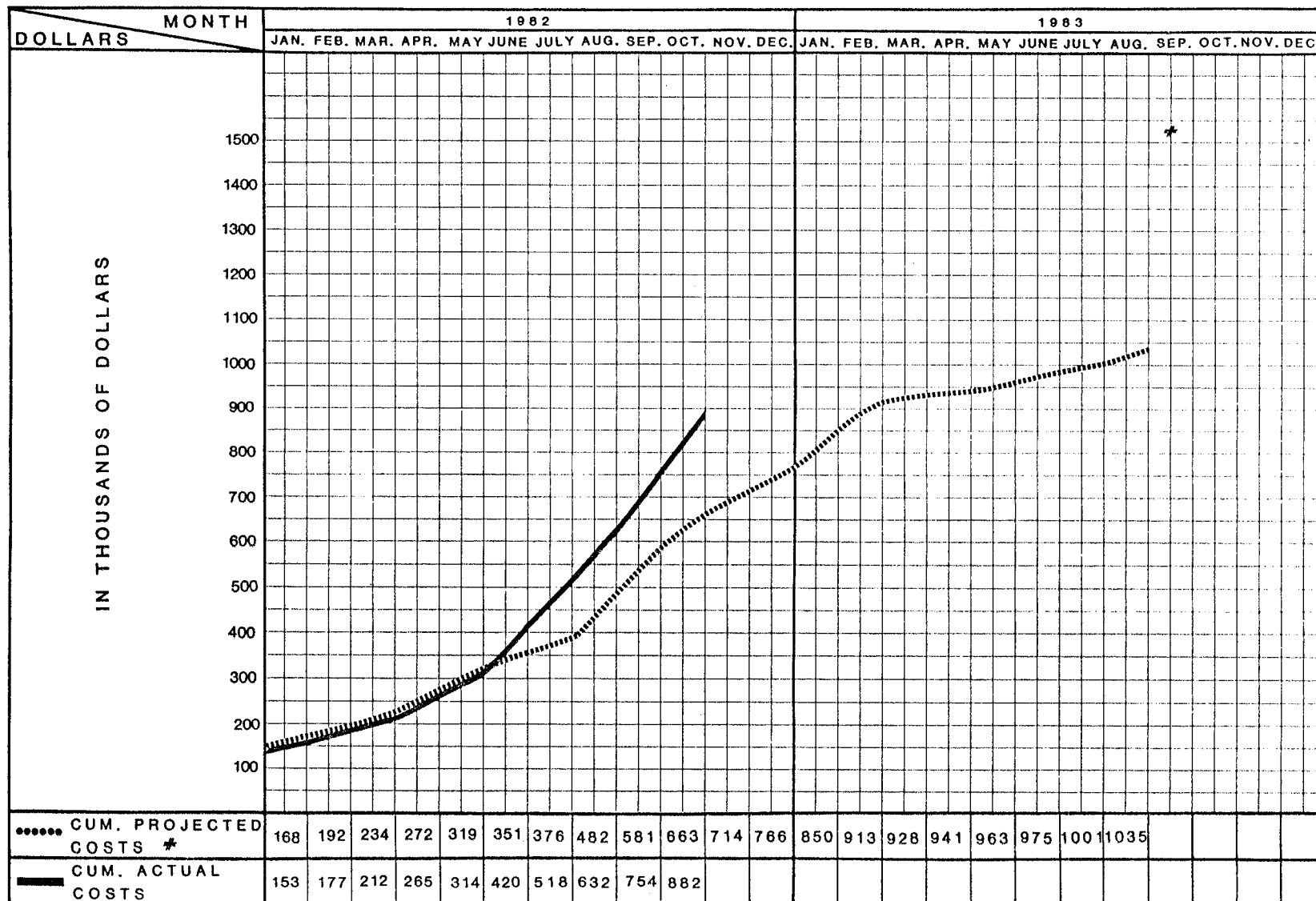
SEDWAY/COOKE HAS EXPENDED 58% OF THEIR AMENDED BUDGET THROUGH OCTOBER. THE EXPECTED EXPENDITURE FIGURE WILL NOT BE AVAILABLE UNTIL A NEW COST PLAN REFLECTING THE \$490,000 CONTRACT AMENDMENT IS SUBMITTED. THIS AMENDMENT (#2) WAS SIGNED IN OCTOBER AND BRINGS THE TOTAL BUDGET TO \$1,525,000.



RTD METRO RAIL PROJECT MAJOR CONSULTANT COST STATUS

CONSULTANT: SEDWAY/COOKE

STATUS AS OF: OCTOBER 1982



* THESE FIGURES WILL BE CHANGED TO REFLECT AMEND. 2 WHEN A NEW COST PLAN IS SUBMITTED.



MAJOR CONSULTANT SCHEDULE STATUS

CONSULTANT : CITY OF LOS ANGELES

AUDIT NO. : 2418

RESPONSIBLE DIVISION / SECTION & MANAGER : STATIONS - D, LOW		
CONTRACT TITLE & MANAGER : L.A. CITY STAFF SERVICES - A, LEPIS		
CONTRACT START : 08-01-81	CONTRACT FINISH : 07-30-83	% CONTRACT COMPLETE : 56
ORIGINAL BUDGET : \$1,448,000	CURRENT BUDGET : \$1,815,000	% BUDGET EXPENDED : 55
ORIGINAL BUDGETED HOURS : 42,439	CURRENT BUDGETED HOURS : 52,031	% HOURS EXPENDED : 56
WORK AUTHORIZATIONS -	+ ISSUED : 37	HOURS AUTHORIZED : 39,510
	+ COMPLETE : 7	% AUTHORIZED HOURS EXPENDED : 74

THE CITY OF LOS ANGELES HAS EXPENDED 56% OF THEIR LABOR HOURS AGAINST AN EXPECTED 64% THROUGH OCTOBER.

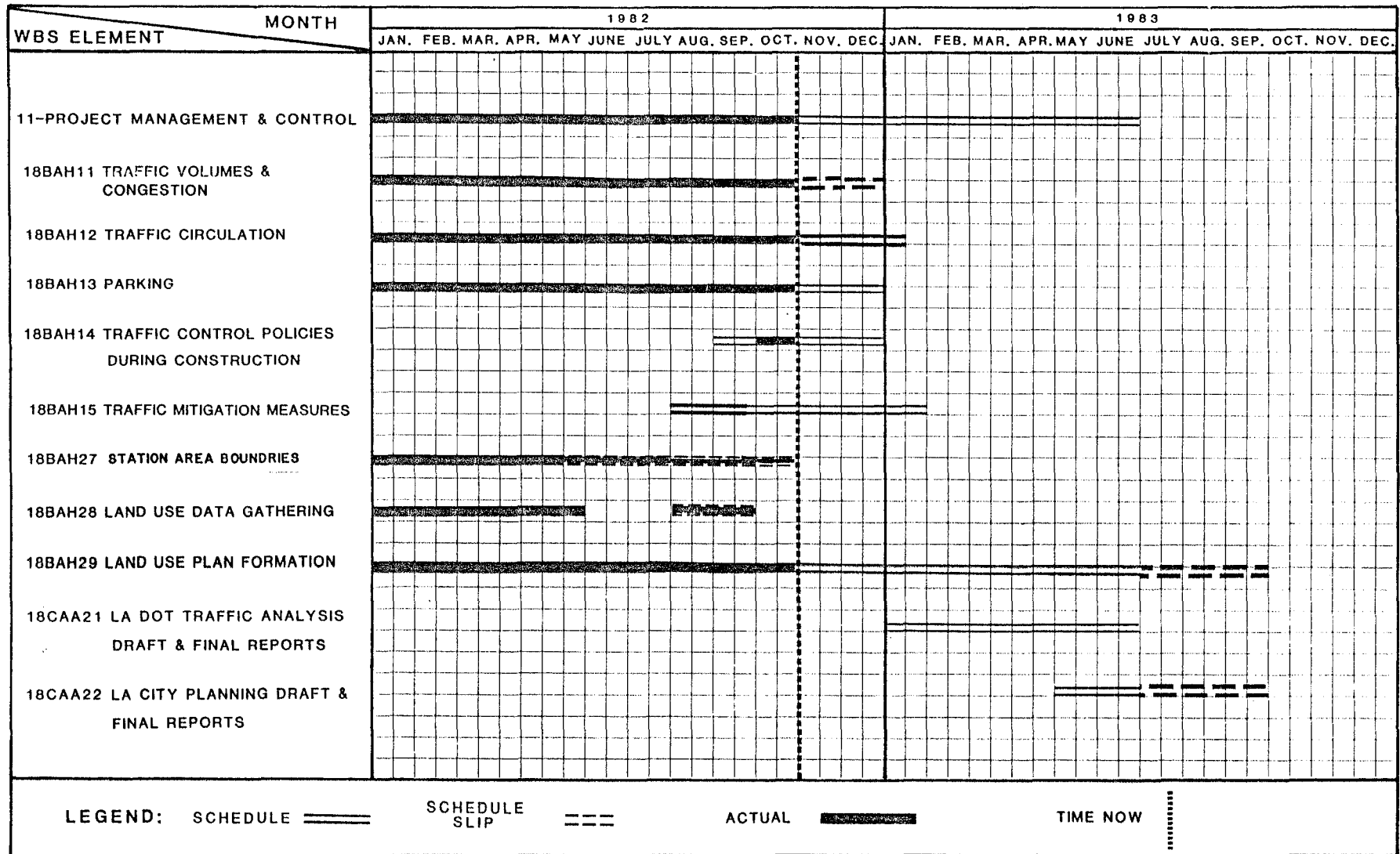
ALL PATRONAGE DATA WILL BE SUBMITTED TO RTD THE FIRST WEEK OF NOVEMBER. THE DELAY IN RECEIVING PATRONAGE DATA HAS CAUSED DELAYS IN TRAFFIC AND PARKING TASKS UNDER WBS 18BAH11, 12, & 13. THESE TASKS ARE NOW ESTIMATED TO BE COMPLETE IN DECEMBER, 1982 WHICH IS STILL WITHIN THE OVERALL EIS SCHEDULE.

WBS 18BAH27 (STATIONS AREA BOUNDRIES) IS COMPLETE EXCEPT FOR MINOR REVISIONS WHICH MAY RESULT FROM THE CITIZENS ADVISORY COMMITTEE MEETINGS HELD NOVEMBER, 1982 THROUGH APRIL, 1983. THE START OF WBS 18BAH15 (TRAFFIC MITIGATION MEASURES) IS DEPENDENT ON COMPLETION OF PREVIOUS TRAFFIC TASKS.

RTD METRO RAIL PROJECT MAJOR CONSULTANT SCHEDULE STATUS

CONSULTANT: CITY OF LOS ANGELES

STATUS AS OF: OCTOBER 1982



MAJOR CONSULTANT COST STATUS

CONSULTANT : CITY OF LOS ANGELES

AUDIT NO. : 2418

RESPONSIBLE DIVISION / SECTION & MANAGER : STATIONS - D. LOW		
CONTRACT TITLE & MANAGER : L.A. CITY STAFF SERVICES - A. LEPIE		
CONTRACT START : 08-01-81	CONTRACT FINISH : 07-30-83	% CONTRACT COMPLETE : 56
ORIGINAL BUDGET : \$ \$1,448,000	CURRENT BUDGET : \$ 1,815,000	% BUDGET EXPENDED : 55
ORIGINAL BUDGETED HOURS : 42,439	CURRENT BUDGETED HOURS : 52,031	% HOURS EXPENDED : 56
WORK AUTHORIZATIONS -	* ISSUED : 37	HOURS AUTHORIZED : 39,510
	* COMPLETE : 7	% AUTHORIZED HOURS EXPENDED : 74

THE CITY OF LOS ANGELES HAS EXPENDED 55% OF THEIR BUDGET AGAINST AN EXPECTED 63% THROUGH OCTOBER.

COSTS CONTINUE TO BE BELOW BUDGET DUE PRIMARILY TO LOWER THAN EXPECTED STAFF SALARY RATES AND TRAVEL EXPENDITURES.



VI. SPECIAL CONSULTANTS

SPECIAL CONSULTANT STATUS

ONGOING SPECIAL CONSULTANT CONTRACT EXPENDITURES TOTALED \$2,738,645 THROUGH OCTOBER, 1982. EIGHTEEN CONTRACTS HAVE BEEN COMPLETED FOR \$275,600 WHICH IS 4% UNDER BUDGET. A NEW JOINT DEVELOPMENT CONTRACT WAS SIGNED WITH ROBERT HARMON IN OCTOBER AND IS EXPECTED TO START IN NOVEMBER.

A CONTRACT AMENDMENT WITH THE COUNTY OF LOS ANGELES FOR \$63,300 IS TO BE EXECUTED IN NOVEMBER BRINGING THE TOTAL CONTRACT AMOUNT TO \$188,300. IN ADDITION, A NEW \$18,000 CONTRACT WITH SCHIMPELER-CORRADINO WILL BE SIGNED FOR PROJECT MILESTONE 9 WORK.

NOTES: ASTERISKED (*) ITEMS INDICATE PEER REVIEW BOARDS, GENERAL MANAGER'S TRANSIT TECHNICAL ADVISORY COMMITTEE, AND "AS NEEDED" CONSULTANTS FOR WHOM SCHEDULE STATUS IS NOT RELEVANT.

THE % COMPLETION OF THE WILSON IHRIG CONTRACT APPLIES TO THE NEW CONTRACT TOTAL OF \$169,571, WHICH INCLUDES THE CONTRACT AMENDMENT OF \$47,000 THAT IS TO BE SIGNED IN NOVEMBER.

RTD METRO RAIL PROJECT SPECIAL CONSULTANT STATUS

STATUS AS OF: OCTOBER 31, 1982

CONSULTANT	START	FINISH	BUDGET	EXPENDITURE	% Cmpl.	ON SCH.
<u>WAYS & STRUCTURES</u>						
2365 TELEDYNE - AERIAL MAP	04-28-81	06-30-83	\$ 209,085	\$ 189,230	99	YES
2428 WILSON IHRIG - NOISE & VIBRATION	08-03-81	02-17-83	122,571 =	130,515	77	YES
2284 LINDVALL RICHTER - GEOTEC. II	10-01-80	09-30-83	271,000	184,458	70	YES
2256 CONVERSE CONSULTANTS - SUBSURFACE INVEST.	12-01-80	08-01-83	1,000,000	997,300	99	YES
2427 CONVERSE CONSULTANTS - SEISMIC CRITERIA	08-04-81	08-03-82	115,000	93,600	81	NO
2493 PSG WATERS - CORROSION CONTROL	01-18-82	07-17-83	148,387	27,706	20	YES
2719 REAL ESTATE ANALYSTS - R.O.W.	07-30-82	06-30-83	25,000	-0-	-0-	YES
2720 LEA ASSOC.; ET.AL. - R.O.W.	07-30-82	06-30-83	25,000	-0-	-0-	YES
2713 NATELSON CONSULTANTS - R.O.W.	07-30-82	06-30-83	25,000	3,100	15	YES
2593 VELMA MARSHALL - R.O.W.	05-03-82	12-31-82	25,000	25,000	100	N/A
2654 GLENN JOHNSON - ARCHITECT. MODEL	06-09-82	07-31-82	15,500	15,500	100	N/A
2754 P.E. SPERRY - TUNNEL CONSL'T.	09-22-82	06-30-83	10,000	1,900	*	*
2760 T.G. McCUSKER - TUNNEL CONSL'T.	09-22-82	06-30-83	10,000	1,549	*	*
2274 CARL ENGLUND - RAILWAY CONSL'T.	12-05-80	06-30-83	10,000	7,100	*	*
2195 AMERICAN AERIAL - AERIAL PHOTO	08-04-80	09-01-80	4,000	3,500	100	N/A
2640 LARRY GALLAGHER	05-01-82	09-30-83	1,500	723	*	*
<u>SYSTEMS DESIGN</u>						
2214 JPL - CAR SIZE	08-21-80	09-22-80	10,000	9,500	100	N/A
2217 WALTER WOODS - PRB	09-16-80	12-31-82	5,000	1,000	100	N/A
2595 ROBERT JOHNSTON	04-01-82	04-30-82	500	300	100	N/A

RTD METRO RAIL PROJECT SPECIAL CONSULTANT STATUS

STATUS AS OF: OCTOBER 31, 1982

CONSULTANT	START	FINISH	BUDGET	EXPENDITURE	% Cmpl.	ON SCH.
<u>SYSTEMS ANALYSIS</u>						
2218 GEORGE DONATO - PRB	09-22-80	06-30-83	\$ 5,000	\$ 2,800	*	*
2360 LOG/AN	04-23-81	05-31-81	2,000	1,900	100	N/A
2349 DAVID ASHLEY - INS. ALT. STUDY	06-16-81	08-14-81	9,800	9,800	100	N/A
<u>STATIONS</u>						
2797 ROBERT HARMON - JOINT DEVELOPMENT	10-01-82	03-30-83	25,000	-0-	-0-	YES
2705 SCHIMPELER-CORRADINO	07-12-82	01-07-83	444,900	243,007	55	YES
2160 BARTON ASCHMAN - PATRONAGE STUDY	05-14-82	09-30-82	35,000	25,000	80	NO
2225 BARTON ASCHMAN - PATRONAGE STUDY	09-19-80	12-31-80	8,500	8,500	100	N/A
2395 COMPUTER USAGE COMPANY	08-01-81	05-31-82	9,000	7,800	100	N/A
2764 W.F. HOEY - STAFF ASSISTANCE	10-01-82	06-30-83	4,000	3,960	*	*
2610 W.F. HOEY - HLWD. AUX. PAT. STUDY	04-21-82	12-31-82	5,000	990	20	YES
2266 W.F. HOEY - HLWD. AUX. PAT. STUDY	12-03-80	12-31-81	5,000	5,000	100	N/A
2421 PB&D - PRB	07-21-81	06-30-82	5,000	1,400	100	N/A
2611 COUNTY OF LOS ANGELES	06-10-82	12-31-83	125,000	67,093	49	YES
<u>PROGRAM CONTROL</u>						
2279 TAD-LOG/AN	12-01-80	06-30-83	472,925	414,521	88	YES
2163 TAD-LOG/AN	08-21-80	12-31-80	15,000	15,000	100	N/A
2363 LOG/AN	05-01-81	11-30-81	30,000	28,000	100	N/A
2534 TAMS	01-15-82	02-31-82	25,000	25,000	100	N/A
<u>COMMUNITY RELATIONS</u>						
2620 CKT ASSOCIATES	04-21-82	10-21-82	23,260	16,301	70	YES
2619 INST. OF CULTURAL AFFAIRS	04-21-82	10-21-82	23,260	20,654	89	YES
2637 N.W. AYRE - BROCHURE	05-01-82	05-30-82	15,600	-0-	ON HOLD	NO
2400 JOHN HENNESSY - FILM	06-22-81	06-22-83	107,700	107,700	100	N/A



RTD METRO RAIL PROJECT SPECIAL CONSULTANT STATUS

STATUS AS OF: OCTOBER 31, 1982

CONSULTANT	START	FINISH	BUDGET	EXPENDITURE	% Cmpl.	ON SCH.
<u>MISCELLANEOUS CONTRACTS</u>						
2726 TOWNSEND ASSOCIATES	08-09-82	11-30-82	\$ 24,000	\$ 16,071	67	YES
2669 EUGENE STANN - TRANSIT ADV. COMM.	07-01-82	06-30-83	7,500	1,748	*	*
2671 FRED BURKE - TRANSIT ADV. COMM.	07-01-82	06-30-83	7,500	2,750	*	*
2670 GEORGE KRAMBLES - TRANSIT ADV. COMM.	07-01-82	06-30-83	7,500	2,721	*	*
2677 ROBERT JOHNSTON - TRANSIT ADV. COMM.	07-01-82	06-30-83	7,500	-0-	*	*
2668 WM. ALEXANDER - TRANSIT ADV. COMM.	07-01-82	06-30-83	7,500	1,927	*	*
2430 BUREAU DE TRANSIT METROPOLATINE - PRB	07-27-81	06-30-83	5,000	2,200	*	*
2499 BARTON ASCHMAN - LEGAL ASST.	11-09-81	12-31-82	4,900	4,121	*	*
2179 TANZMANN ASSOCIATES	06-30-80	11-30-80	10,000	9,900	100	N/A
2286 TANZMANN ASSOCIATES	11-01-80	12-31-80	1,000	800	100	N/A
TOTAL			\$3,510,888	\$2,738,645		

