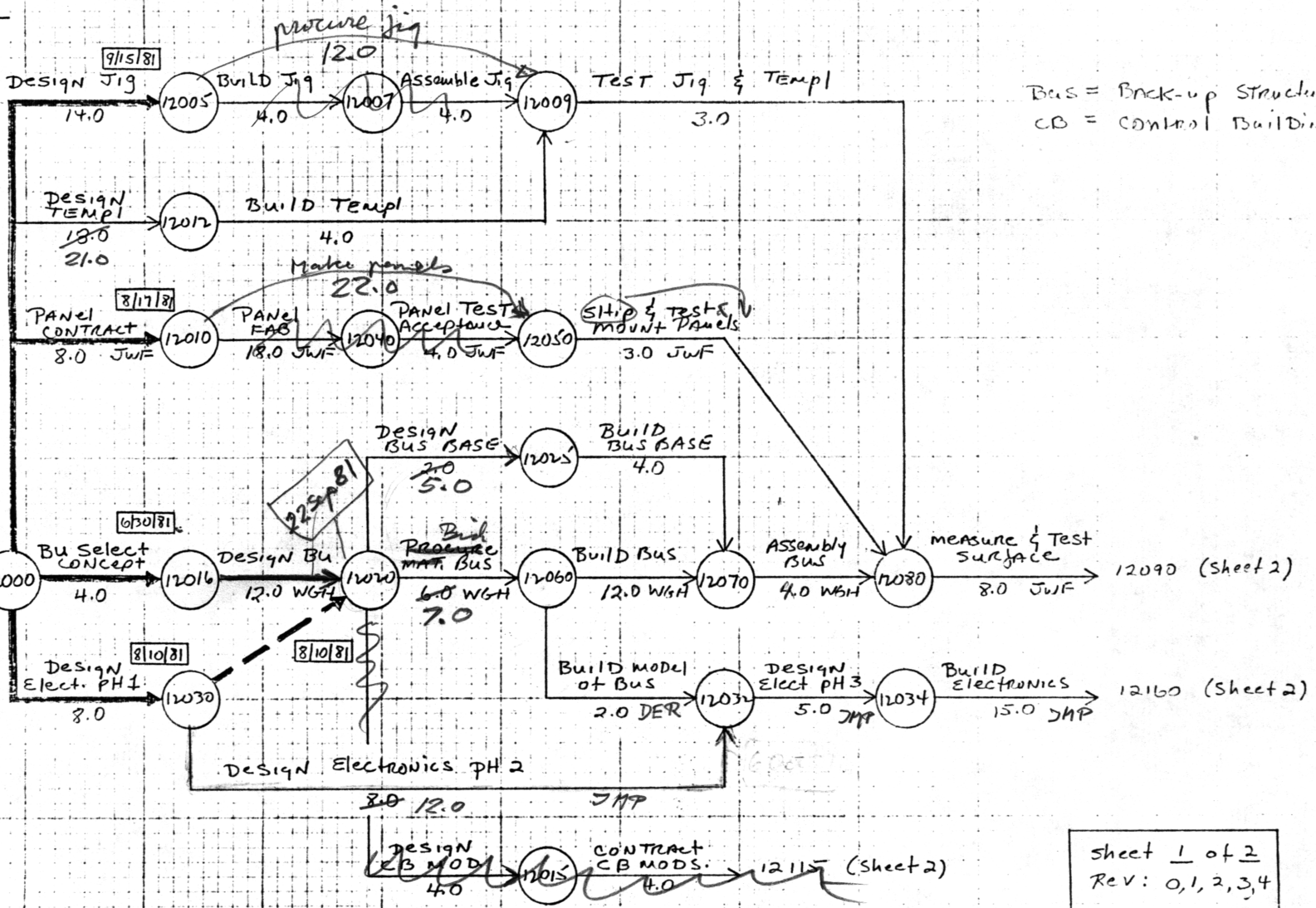


12 M ANTENNA

9/17/81

01 MAY 81



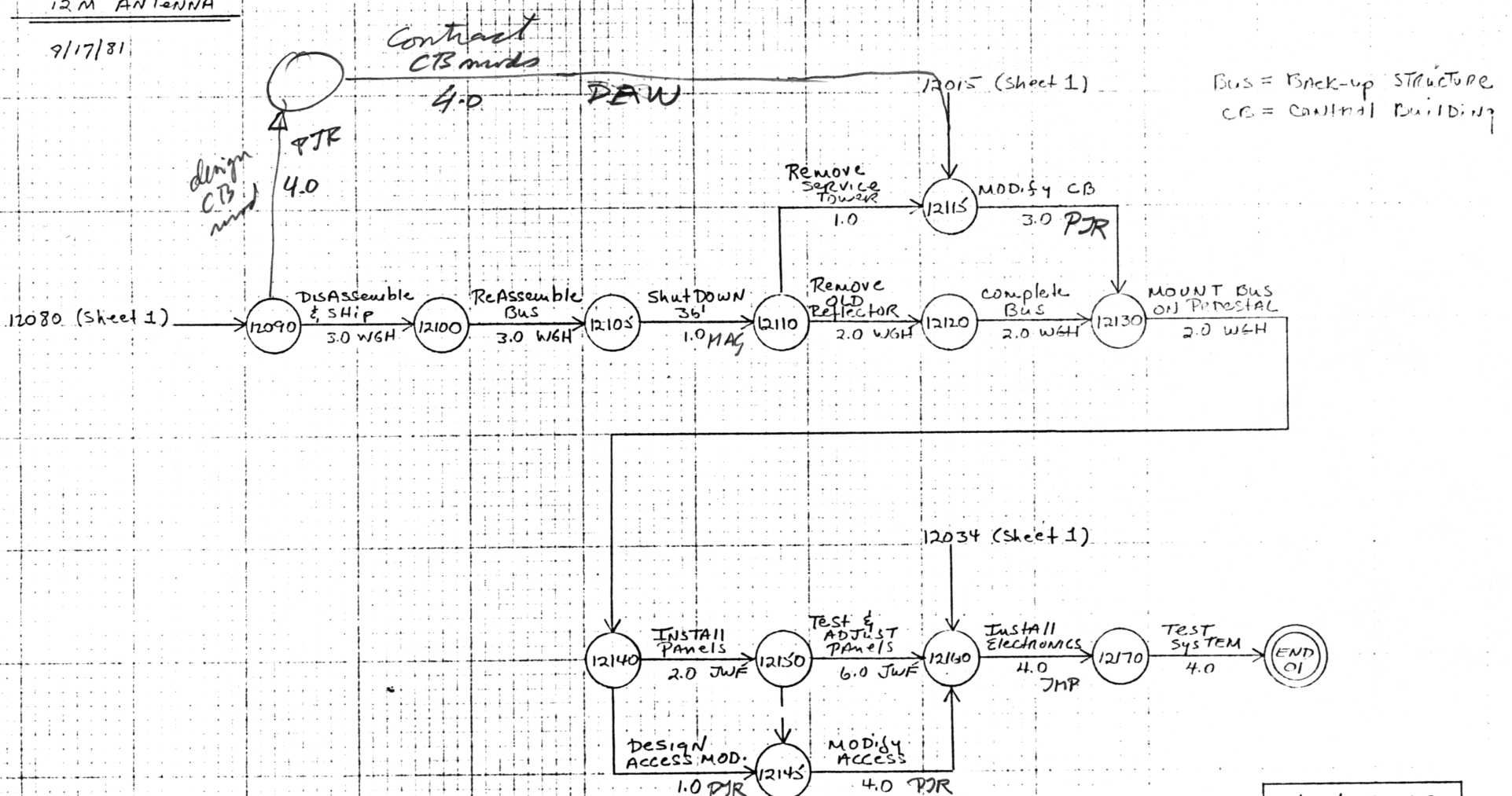
Bus = Back-up Structure
CB = Control Building

sheet 1 of 2
Rev: 0,1,2,3,4

12 METER MILLIMETER WAVE TELESCOPE
MEMO No. 77

12M ANTENNA

9/17/81



NATIONAL RADIO ASTRONOMY OBSERVATORY
ACTIVITY TIME REPORT

PROGRAM 17SEP81 REPORT DATE. 12M TELESCOPE PROJECT.
PROJECT 12M ANTENNA UPGRADING PROJECT.

12M001
ANT012

RUN DATE 17SEP81

LEVEL DETAIL

SORTED BY PRED,SUCC

PRED EVENT	SUCC EVENT	CY. CD.	ACTIVITY DESCRIPTION	TIME EST	SLACK PRIM. SEC.	EARLY START	DATES FINISH	LATE START	DATES FINISH	SCHED.	DEPT
	ST01 S		BEGIN		.0	A01MAY81	A01MAY81	01MAY81	01MAY81		
ST01	12000		CONCEPT DESIGN	04.0	.0	A01MAY81	A08JUN81	01MAY81	08JUN81		
END01		E			.0	18NOV82	18NOV82	13NOV82	18NOV82		
12000	12005		DESIGN JIG	14.0	12.2	A08JUN81	A15SEP81	08JUN81	10DEC81		
12000	12010		PANEL CONTRACT	08.0	2.2	A08JUN81	A17AUG81	08JUN81	01SEP81		JWF
12000	12012		DESIGN TEMPL	18.0	12.2	A08JUN81	A30OCT81	01SEP81	11JAN82		
12000	12016		SELECT CONCEPT	04.0	.0	A08JUN81	A30JUN81	08JUN81	30JUN81		
12000	12030		ELECTRONICS DESIGN PH 1	08.0	6.2	A08JUN81	A10AUG81	08JUN81	23SEP81		
12005	12007		BUILD JIG	04.0	12.2	A15SEP81	A13OCT81	10DEC81	11JAN82		
12007	12009		ASSEMBLE JIG	04.0	12.2	13OCT81	A10NOV81	11JAN82	08FEB82		
12009	12080		TEST JIG & TEMPL	03.0	12.2	10NOV81	A02DEC81	08FEB82	03MAR82		
12010	12040		PANEL FAB	18.0	2.2	A17AUG81	A23DEC81	01SEP81	11JAN82		JWF
12012	12009		BUILD TEMPL	04.0	12.2	13OCT81	10NOV81	11JAN82	08FEB82		
12015	12115		CONTRACT CB MOCS.	04.0	30.0	21OCT81	18NOV81	26MAY82	23JUN82		
12016	12020		DESIGN BUS	12.0	.0	A30JUN81	A23SEP81	30JUN81	23SEP81		WGH
12020	12015		DESIGN CB MOD.	04.0	30.0	23SEP81	A21OCT81	28APR82	26MAY82		
12020	12025		DESIGN BUS BASE	02.0	12.0	23SEP81	A07OCT81	17DEC81	04JAN82		
12020	12060		PROCURE MAT. BUS	06.0	.0	23SEP81	04NOV81	23SEP81	04NOV81		WGH
12025	12070		BUILD BUS BASE	04.0	12.0	07OCT81	04NOV81	04JAN82	01FEB82		
12030	12020		DUMMY	0000	6.2	A10AUG81	X10AUG81	23SEP81	23SEP81		
12030	12032		DESIGN ELECTRONICS PH 2	08.0	29.2	A10AUG81	A06OCT81	10MAR82	05MAY82		
12032	12034		DESIGN ELECTRONICS PH 3	05.0	23.0	18NOV81	A24DEC81	05MAY82	09JUN82		
12034	12160		BUILD ELECTRONICS	15.0	23.0	24DEC81	14APR82	09JUN82	23SEP82		
12040	12050		PANEL TEST ACCEPTANCE	04.0	2.2	23DEC81	22JAN82	11JAN82	08FEB82		JWF
12050	12080		SHIP & TEST MCUNT PANELS	03.0	2.2	22JAN82	A15FEB82	03FEB82	03MAR82		JWF
12060	12032		BUILD MODEL OF BUS	02.0	23.0	04NOV81	18NOV81	21APR82	05MAY82		
12060	12070		BUILD BUS	12.0	.0	04NOV81	01FEB82	04NOV81	01FEB82		WGH
12070	12080		ASSEMBLY BUS	04.0	.0	01FEB82	03MAR82	01FEB82	03MAR82		WGH
12080	12090		MEASURE & TEST SURFACE	08.0	.0	03MAR82	28APR82	03MAR82	28APR82		JWF
12090	12100		DISASSEMBLE & SHIP	03.0	.0	28APR82	19MAY82	28APR82	19MAY82		WGH
12100	12105		REASSEMBLE BUS	03.0	.0	19MAY82	09JUN82	19MAY82	09JUN82		WGH
12105	12110		SHLT DGWN 36FT	01.0	.0	09JUN82	16JUN82	09JUN82	16JUN82		
12110	12115		REMOVE SERVICE TOWER	01.0	.0	16JUN82	23JUN82	16JUN82	23JUN82		
12110	12120		REMOVE OLD REFLECTOR	02.0	.0	16JUN82	30JUN82	16JUN82	30JUN82		WGH
12115	12130		MODIFY CB	03.0	.0	23JUN82	14JUL82	23JUN82	14JUL82		
12120	12130		COMPLETE BUS	02.0	.0	30JUN82	14JUL82	30JUN82	14JUL82		WGH
12130	12140		MOUNT BUS ON PEDESTAL	02.0	.0	14JUL82	28JUL82	14JUL82	28JUL82		WGH
12140	12145		DESIGN ACCESS MOD.	01.0	3.0	28JUL82	04AUG82	18AUG82	25AUG82		
12140	12150		INSTALL PANELS	02.0	.0	28JUL82	11AUG82	28JUL82	11AUG82		JWF
12145	12160		MODIFY ACCESS	04.0	2.0	11AUG82	09SEP82	25AUG82	23SEP82		
12150	12145		DUMMY	0000	2.0	11AUG82	11AUG82	25AUG82	25AUG82		
12150	12160		TEST & ADJUST PANELS	06.0	.0	11AUG82	23SEP82	11AUG82	23SEP82		JWF
12160	12170		INSTALL ELECTRONICS	04.0	.0	23SEP82	21OCT82	23SEP82	21OCT82		
12170	END01		TEST SYSTEM	04.0	.0	21OCT82	18NOV82	21OCT82	18NOV82		

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NATIONAL RADIO ASTRONOMY OBSERVATORY
ACTIVITY BAR CHART

1

PROGRAM 17SEP81 REPORT DATE. 12M TELESCOPE PROJECT.
PROJECT 12M ANTENNA UPGRADING PROJECT.

12M001
ANT012

RUN DATE 17SEP81

PRED EVENT	SUCC EVENT	CY CD	DESCRIPTION	A - ACTIVITY COMPLETE * - ACTIVITY DURATION	P - PACING ITEM - - ACTIVITY FLOAT	FINAL DATE	DEPT		
ST01	12000		CONCEPT DESIGN	AAAA		08JUN81			
12000	12005		DESIGN JIG	AAAAAAAAAAAA		15SEP81			
12000	12010		PANEL CONTRACT	AAAAAAAA		17AUG81	JWF		
12000	12012		DESIGN TEMPL	*****-----		13CCT81			
12000	12014		SELECT CONCEPT	AAA		30JUN81			
12000	12030		ELECTRONICS DESIGN PH 1	AAAAAAA		10AUG81			
12005	12007		BUILD JIG	*****-----		13CCT81			
12007	12009		ASSEMBLE JIG	: *****-----		10NCV81			
12009	12080		TEST JIG & TEMPL	: *****-----		02DEC81			
12010	12040		PANEL FAB	*****-----		23DEC81	JWF		
12012	12009		BUILD TEMPL	: *****-----		10NGV81			
12015	12115		CONTRACT CB MCDS.	: *****-----		18NCV81			
12016	12020		DESIGN BUS	PPPPPPPPPP		23SEP81	WGH		
12020	12015		DESIGN CB MOD.	: *****-----		21CCT81			
12020	12025		DESIGN BUS BASE	: *****-----		07CCT81			
12020	12060		PROCURE MAT. BUS	: P P P P P		04NOV81	WGH		
12025	12070		BUILD BUS BASE	: *****-----		04NOV81			
12030	12032		DESIGN ELECTRONICS PH 2	*****-----		06CCT81			
12032	12034		DESIGN ELECTRONICS PH 3	: *****-----		24DEC81			
12034	12160		BUILD ELECTRONICS	: *****-----		14APF82			
12040	12050		PANEL TEST ACCEPTANCE	: *****-----		22JAN82	JWF		
12050	12080		SHIP & TEST MOUNT PANELS	: *****-----		15FEB82	JWF		
12060	12032		BUILD MCDEL OF BUS	: *****-----		18NCV81			
12060	12070		BUILD BUS	PPPPPPPPPP		01FEB82	WGH		
12070	12060		ASSEMBLY BUS	: P P P P		03MAR82	WGH		
12080	12090		MEASURE & TEST SURFACE	: P P P P P P		23APR82	JWF		
12090	12100		DISASSEMBLE & SHIP	: P P P		19MAY82	WGH		
12100	12105		REASSEMBLE BUS	: P P P		09JUN82	WGH		
12105	12110		SHUT DOWN 36FT	: P P		16JUN82			
12110	12115		REMCVE SERVICE TOWER	: P P		23JUN82			
12110	12120		REMCVE OLD REFLECTOR	: P P		30JUN82	WGH		
12115	12130		MODIFY CB	: P P P		14JUL82			
12120	12130		COMPLETE BUS	: P P P		14JUL82	WGH		
12130	12140		MOUNT BUS ON PEDESTAL	: P P		29JUL82	WGH		
12140	12145		DESIGN ACCESS MCD.	: ***--		04AUG82			
12140	12150		INSTALL PANELS	: P P P		11AUG82	JWF		
12145	12160		MODIFY ACCESS	: ***--		09SEP82			
12150	12160		TEST & ADJUST PANELS	: P P P P P		23SEP82	JWF		
12160	12170		INSTALL ELECTRONICS	: P P P P		21CCT82			
12170	END01		TEST SYSTEM	: P P P		18NCV82			
				01SEP81	01JAN82	01MAY82	01SEP82	01JAN83	01MAY83

NATIONAL RADIO ASTRONOMY OBSERVATORY
ACTIVITY TIME REPORT

PAGE 1

PROGRAM 17SEP81 REPORT DATE. 12M TELESCOPE PROJECT.
PROJECT 12M ANTENNA UPGRADING PROJECT.

12M001
ANT012

RUN DATE 17SEP81

LEVEL DETAIL

SORTED BY EXP.DATE

PRED EVENT	SUCC EVENT	CY. CD.	ACTIVITY DESCRIPTION	TIME EST	SLACK PRIM. SEC.	EARLY START	DATES FINISH	LATE START	DATES FINISH	SCHED.	DEPT
12020	12025		DESIGN BUS BASE	02.0	12.0	23SEP81	07OCT81	17DEC81	04JAN82		
12005	12007		BUILC JIG	04.0	12.2	A15SEP81	13OCT81	10DEC81	11JAN82		
12020	12015		DESIGN CB MCD.	04.0	30.0	23SEP81	21OCT81	29APR82	26MAY82		
12020	12060		PRCCURE MAT. BUS	06.0	.0	23SEP81	04NOV81	23SEPR1	04NCV31		JCF
12025	12070		BUILD BUS BASE	04.0	12.0	07OCT81	04NOV81	04JAN82	01FEB82		
12007	12009		ASSEMBLE JIG	04.0	12.2	13OCT81	10NOV81	11JAN82	08FEB82		
12012	12009		BUILD TEMPL	04.0	12.2	13OCT81	10NOV81	11JAN82	08FEB82		
12060	12032		BUILD MCDL CF BUS	02.0	23.0	04NOV81	18NOV81	21APR82	05MAY82		
12015	12115		CONTRACT CB MOGS.	04.0	30.0	21OCT81	18NOV81	26MAY82	23JUN82		
12009	12080		TEST JIG & TEMPL	03.0	12.2	10NOV81	02DEC81	08FEB82	03MAR82		
12032	12034		DESIGN ELECTRONICS PH 3	05.0	23.0	18NOV81	24DEC81	05MAY82	09JUN82		
12040	12050		PANEL TEST ACCEPTANCE	04.0	2.2	23DEC81	22JAN82	11JAN82	08FEB82		JWF
12060	12070		BUILD BUS	12.0	.0	04NOV81	01FEB82	04NOV81	01FEB82		WGH
12050	12080		SHIP & TEST MOUNT PANELS	03.0	2.2	22JAN82	15FEB82	08FEB82	03MAR82		JWF
12070	12080		ASSEMBLY BUS	04.0	.0	01FEB82	03MAR82	01FEB82	03MAR82		WGH
12034	12160		BUILD ELECTRONICS	15.0	23.0	24DEC81	14APR82	09JUN82	23SEP82		