

**SWITCHING CONSIDERATIONS—DEMAND AND FACILITY CHART—END OFFICE
GENERAL ENGINEERING CONCEPTS
NETWORK OPERATIONS METHODS**

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STANDARD DEMAND AND FACILITY CHART FORMAT	2	1.01 This section describes the Bell System Standard Demand and Facility Chart (D&F Chart) which is recommended for use in the end office relief planning process.	
2. CHART DESCRIPTION	3	1.02 Whenever this section is reissued, the reason for reissue will be listed in this paragraph.	
GENERAL	3	1.03 The primary objectives for which the standard Demand and Facility Chart was designed are:	
PART A—GRAPHICS PAGE	3	(a) To establish a Bell System standard interdepartmental end office relief planning and job management tool by:	
PART B—DATA PAGE	6	(1) presenting an up-to-date picture of working main stations and actual usage rates and the current view of future gains in working main stations and usage rates.	
DEMAND AND FACILITY CHART EXAMPLE	8	(2) depicting the capacity of existing equipment and the current picture of the planned capacity additions.	
APPENDIX		(b) To provide a vehicle which reports consistent data (using standardized terminology and definitions) for planning and program review and evaluation purposes.	
FIGURES		(c) To provide the basic presentation format for a computerized data base system.	
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1.04 Part 2 of this section includes the descriptions of the data items that may appear on a D&F Chart. The associated figures are intended to provide assistance in locating the different items on an actual entity D&F Chart. These descriptions are applicable to a mechanized chart printed from the Demand and Facility Chart Data Base System (D&F DBS).

1.05 An example D&F Chart for a building is also included in Part 2. The building used in this example includes two entities.

1.06 An appendix is included in this section. The appendix contains more complete definitions of specific data items and a discussion of the need for and the use of the data. Part I of the appendix lists the various kinds of information included.

1.07 References in this section to methods, planning, data requirements, service levels, and equipment quantities are based on American Telephone and Telegraph Company recommendations.

IMPORTANCE OF JOB SIZING AND TIMING

1.08 The proper sizing and timing of end office switching network additions is crucial in meeting service objectives in the most economical manner. In addition to service considerations which require adequate equipment and facilities on time, there are important maintenance and administrative expense and capital budget considerations.

1.09 The many activities performed in various departments must be sequenced and integrated to properly plan and successfully implement equipment additions. Continuous monitoring and timely evaluation of these proposed plans, particularly the sizing and timing aspects, are required to substantiate major assumptions, accommodate changes in conditions, insure that all requirements are being met, and obtain necessary approvals. These evaluations must be made on both an individual office or job basis, and on an aggregate company or budget basis to insure that plans are consistent with corporate objectives and constraints. Finally, means must be provided to communicate the approved plans to those responsible for implementation, and to evaluate the progress of that implementation relative to the plan.

STANDARD DEMAND AND FACILITY CHART RATIONALE

1.10 Nonstandard Demand and Facility Charts developed by the various operating telephone companies had been a prime tool in the end office relief planning function for many years. They proved indispensable as both a planning and a record-keeping device. However, the large number of charts of different formats, and the variety and volume of data on them made it difficult to evaluate the overall effectiveness of the central office equipment provisioning jobs in certain situations such as large geographical areas.

1.11 A Bell System Standard D&F Chart was introduced (GL-74-02-201) to eliminate these problems and to provide a standard format with common terminology and definitions. In addition, the standard manually-prepared D&F Chart was subsequently to be incorporated in a computerized data base system. This system, the Demand and Facility Data Base System (D&F DBS) is now available and is capable of generating Parts A and B of the D&F Chart plus a variety of other data (refer to GL-74-02-201 and the associated D&F DBS User Manual).

STANDARD DEMAND AND FACILITY CHART FORMAT

1.12 The Demand and Facility Chart consists of two parts. Part A and Part B are prepared for all end offices.

1.13 Part A and Part B are considered "job management" tools, but are formatted to include sufficient data to permit their collective use (for all end offices in an administrative unit) for planning and program review purposes.

(a) **Part A (Graphics Page)**—This page presents, in a graphical format, a summary of the more pertinent data for the planned end office relief. For those interested in an overview of the relief plan, it is intended that this chart should stand alone and answer the following questions:

- (1) **Why** is relief needed?
- (2) **When** is relief needed?
- (3) **When** will relief be available?
- (4) **How much** relief is being provided?

Part A also provides designated lines for additional information such as:

- (1) Forecast information
- (2) Service results indicators
- (3) Job information.

(b) **Part B (Data Page)**—This page presents, in a columnar format, more detailed information on each relief job. As in Part A, there are also designated lines for additional information where more detailed equipment or capacity data may be recorded.

1.14 All charts should be reviewed at least two times a year in preparation for the Construction Budget views. In addition, individual charts should be updated and reissued when significant changes occur which affect the demand, capacity, timing, and/or sizing of the end office relief program. Concurrent with each reissue, Part A and Part B should be distributed to all groups involved in end office equipment planning or administration.

1.15 Part A and Part B sheets should be prepared on all entities. For multientity locations, a total chart (building chart) is produced in addition to the individual entity charts. In the case of a multientity wire center with several growth entities, the building chart often provides insight into the rationale of the loading plan (that is, the plan for the assignment of lines, by class of service, to the various entities within that wire center).

1.16 An entry should be made in both Part A and Part B for every growth addition and capacity adjustment. Growth additions and capacity adjustments are defined in the appendix.

2. CHART DESCRIPTION

GENERAL

2.01 This part provides a description of the various data items that may be included on a Demand and Facility (D&F) Chart. A completed example of each Part of a D&F Chart is included for reference. For user convenience in relating items within the text to the corresponding item on a chart, these examples include section identifiers in the left and right margins and circled call-out number identifiers adjacent to specific items. The

call-out numbers are also included in the text in front of the different headings.

PART A—GRAPHICS PAGE

2.02 The example of the Graphics Page is included as Fig. 1. The items included on this page are as follows:

Graphic Section

① **Horizontal Scale**—This scale has monthly divisions covering a 10-year period. This period provides for a minimum 3-year historical plot, the three Construction Budget (CB) years, and two years beyond the last CB year.

② **Vertical Scale**—This scale represents the demand and capacity in main stations. The main divisions of this scale are in multiples of 1, 2, or 5. This allows easy interpretation of the smaller grid lines. Reading of the chart also will be facilitated since both the left and right margin grid values are shown.

③ **Scale—MS/DIVISION**—To further facilitate the reading of the chart, the quantity of main stations per small grid division appears on this line.

④ **Demand Line**—The main station demand line is represented in two parts. The number of historical or actual main stations working is plotted month-by-month as a solid line and is based on traffic data. The estimate of future demand is plotted as a dashed line and represents the latest General Planning Forecast or Detailed Forecast (ie, wire center or entity forecast of lines and main stations). The following factors affect the demand line:

(a) For a multientity wire center, the forecast of future demand for the individual entities should be based on the loading plan for the entire wire center.

(b) The forecast for an entity may include the in-service count and forecast of several classes of equivalent main stations such as CENTREX and CCSA. In these cases, the main station demand line is plotted to show the sum of the forecast and the appropriate equivalent main stations. A spare line (item 17) is available in the Forecasts Section to provide any special

forecast data. If used, information for this line is entered manually.

(c) The actual working main stations are plotted month-by-month on the master chart. The forecast line is not changed to begin with the latest monthly actual. It is changed whenever a new or revised forecast is made. In this manner, a comparison between the actual working main stations and the forecasted working main stations is available. The monthly trends of the prior years should be observed before reaching any conclusion as to the reasonableness of the current forecast.

(d) Area transfers are shown with a vertical line in the month in which they occur or are planned. Items in Part B include the size of the transfer in main stations, the date, and other wire center(s) involved in an interoffice transfer.

5 Limiting Capacity Line—This line represents the maximum number of Main Stations that may be accommodated during the busy season preceding exhaust without jeopardizing service objectives or encroaching on administrative line and number requirements. Normally, an increase in capacity occurs with a “Growth Addition” (refer to Part 2 of the appendix). A “Capacity Adjustment” may increase or decrease the capacity. These adjustments are shown *at anytime* it becomes apparent that the previously shown capacity is in *error*. The actual main station values of these limiting lines, along with an abbreviation to indicate the limiting equipment, is shown directly above the limiting line each time the limiting capacity changes. A recommended set of abbreviations is listed in Fig. 1 of the appendix.

6 Timing Arrow—The function of the Timing Arrow is to correctly identify the time when an equipment relief job or other form of relief (eg, area transfer) is required. The following factors affect the location of the Timing Arrow:

(a) Since the limiting main station capacity of an entity can be either a physical equipment limit (lines and numbers) or a CCS and/or attempt load related equipment item, the intersection of the limiting main station capacity line and the main station demand line may not necessarily represent the exhaust date; hence, the need for the Timing Arrow.

(b) The Timing Arrow is placed at the “required for service date” (refer to Part 5 of the appendix), which is the latest date that an entity may be expected to provide objective levels of service without relief and have adequate lines and numbers to meet anticipated demand without encroaching on administrative requirements. The network designer is responsible for determining this date. The arrow appears above the Limiting Capacity Line in the month that the relief is required. If the relief is provided by an equipment addition, the job number also appears with the arrow.

(c) Generally, if an office is exhausting on physical equipment (lines or numbers), the Timing Arrow is placed in the month of the Capacity/Demand line intersection. A placement different from that above should be explained in the notes section (item 30). If an office is exhausting on other than physical equipment, the placing of the Timing Arrow depends on the nature of the off-busy-season usage characteristics. For example, consider an entity for which an addition is scheduled. Assume that current usage projections indicate a requirement for 30,000 CCS capacity during the first busy season following the addition, and 32,500 CCS capacity during the second busy season. Assume further that the planned addition, because of equipment breaks, will provide a capacity of 31,000 CCS. Under these conditions, the entity would need the next relief at some time before the second busy season, the exact date dependent on the entity main station growth rate, the off-busy season usage characteristics, and physical line and number capacities. Weighing these factors, the network designer determines the placement of the Timing Arrow for the next addition. The Timing Arrow is shown for all jobs completing or shipping during these Construction Budget years, and for the next job after the Construction Budget period.

7 Job Number—For each addition shown on the chart, a job number appears above the vertical section of the limiting line which indicates the increase in office capacity.

8 Busy Season Notation—In almost all offices there are months of the year, varying from three to nine or ten, during which greater loads are carried than during the remainder of the year. However, for engineering purposes, the busy season

is defined as the three months (not necessarily consecutive) with the highest average busy hour talking channel (refer to Part 3 of the appendix) CCS load per main station. Engineering judgment is required in offices where two months are exceptionally higher than the third highest month (ie, summer resorts), before allowing the average busy season (ABS) load to be diluted by the third high month. These busy season months are shown as solid squares at the bottom of the graphics portion of the chart both for history and the future years. The anticipated busy months of future years are required to document the busy season assumption behind the design of the growth addition.

- ⑨ Miscellaneous Additions—Miscellaneous additions that do not affect the limiting capacity of an office can be noted by a vertical slash across the limiting line at the completion date of the job.

Forecast Section

⑩ CCS/MS (Orig) (Total)—This line shows the actual and projected originating or total talking channel CCS/MS for both historical usage and for projections of future usage. An historical value should be identified by an "A" postscript (ie, 3.24A). The projection of future usage is recorded for each entity. For entities where no usage measurements are taken, the engineering estimate of historic and projected usage should be recorded.

⑪ Busy Season Interval—The vertical line separating CCS/MS for each year is not necessarily shown as January to January. The vertical lines are plotted between June and July when the year is not shown from January to January to enclose the 12-month period which spans the Busy Season appropriate to the entity. Annual Busy Season, 10 high-day, and high-day data are selected from these periods.

⑫ Forecast Dates—This block contains the date of the forecast plotted on the chart. The date will be either the date of the Detailed Forecast or General Planning Forecast and/or, in the case of multientity wire centers, the date of the entity split forecast, derived from the wire center loading plan.

⑬ Beginning of Year (B/Y)—This item indicates that the forecast for items 14 through 17 is based on beginning of year.

⑭ Main Stations—This data line contains current year data and up to seven years of forecasted data for main stations. Each of the yearly periods is halved to show the total main stations forecasted for each year in the left half of the period, and the net gain (or loss) during the year in the right half of the period.

⑮ Lines—Data for lines appear in the same format as the data for main stations.

⑯ MS/L Ratio—This line is also divided into two portions. The left portion indicates the Main Station to Line Ratio anticipated for the beginning of each year. The right portion may be used to enter, manually, optional data such as percent business main stations.

⑰ Spare Line—Data appearing on this line are entered manually at the option of the operating telephone company. Items which are typically forecasted include CENTREX, CCSA, or TOUCH-TONE. A maximum of nine entries may be entered.

Service Results Section

⑱ Service Results—This section provides for recording monthly and busy season service measurements. Six years of data for monthly service results for three individual measurements may be presented. The row headings at the extreme left have been designed to provide for flexibility when recording the measurement of different equipment types. The monthly measurements include Dial Tone Delay (DTD), Incoming Matching Loss (IML), and Incoming First Failure to Match (IFFM). Any two measurements may be entered manually for six years to show Hi-Day, 10 Hi-Day, and ABS. These row headings provide similar flexibility. Certain required measurements are as follows:

- (a) Monthly Dial Tone Delay results are required for all entities recording this measurement.
- (b) Monthly Incoming Matching Loss and/or IFFM is required for all Crossbar and ESS entities.
- (c) The Hi-Day, 10 Hi-Day, and ABS results are required for all entities recording Dial Tone Delay measurements.
- (d) ABS Incoming Matching Loss and/or IFFM is required for Crossbar and ESS entities.

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Job Information Section

- 19 Job Number—This line indicates either the growth addition or miscellaneous job number.
- 20 Ready Svc. Date, WEC Co T/O Date—These dates, entitled “Ready for Service Date” and “WEC Co Turnover Date,” appear for every growth addition when entered into the data base. Refer to Part 5 of the appendix for definitions of the various dates.
- 21 Req. Svc. Date (Timing Arrow), Ship Date—This date, entitled “Required for Service Date,” appears for every growth addition when entered into the data base. The Ship Date is the date the equipment is to be shipped from Western Electric.

- 22 Spare Lines—Data appearing on this line are entered manually at the option of the operating telephone company. Quantities of equipment, estimated costs, and timing information are examples of the type of data that normally appear.

Usage Section

- 23 CCS/MS Graphics—This area, which spans a 10-year period, is located in the upper left corner of the chart. It serves two purposes: first, the monthly plot of CCS/MS history is helpful in understanding the job timing as discussed in the Timing Arrow concept explanation; and second, the trend line of the projected average busy season CCS/MS is evident.

Identification Section

- 24 Title Block—The Title Block items contain exchange, building, entity, equipment type, area, division, and district information pertaining to a specific entity.
- 25 Building Capacity—The items indicating the building capacity expressed in lines and terminals appear on the lines designated “Lines” and “Terms.” The “Exhaust” and “Reviewed” lines show the building exhaust date and the date of the latest review. Entries for this item are entered manually.
- 26 Issue Date—This is the date of the most current issue of the chart.

- 27 Prior Issue Date—This is the issue date of the most recent predecessor of the current chart. This date and items 28 through 30 must be entered manually.

- 28 C. P. View—This block indicates that the data, as shown on the chart, were used to compile a particular Construction Budget View.

- 29 Approvals—This block provides space for Engineering and Traffic representatives to initial the current issue of the chart. Joint initials imply that the chart has interdepartmental agreement.

Notes Section

- 30 The notes section is used to clarify any of the data on Part A. Note No. 1 always appears at the bottom of this section and is entitled “reason for reissue.”

2.03 A graphics page for a building also is prepared. The data for entities in the building are combined to portray the situation for the entire building. A graphics page for a building includes only the Graphics, Forecast, Identification, and Notes Section.

PART B—DATA PAGE

2.04 The Data Page (Part B) data are presented in columnar format. Data for up to six jobs, adjustments, and/or area transfers can be printed on each sheet.

Identification Section

- 1 Title Block—The title block contains the Building, Entity, and Equipment Type data for the entity.

General Data Section

- 2 Job Adj or Transf—The job number or the abbreviations “ADJ” (for adjustments) or “AT” (for area transfers) appear on this line. Columns headed by these items appear from left to right in chronological sequence.
- 3 Required Svc. Date—This is the date the addition is required for service. It may be required for tie-ins, retrofits, etc, without equipment additions.

④ Ready Svc. Date—This is the date that an equipment addition will be ready for service. For capacity adjustments, the date represents the effective date of the adjustment. This date also may be required without an equipment addition.

⑤ Ship Date—This is the date that equipment should be shipped from Western Electric.

⑥ Job Description—This line classifies the job as a growth addition (GA), replacement project (REPL), displacement project (DISP), trunk additions (TRKS) not affecting the main station capacities of the office, or some other type of project.

⑦ Busy Season Prior to Exhaust—This entry appears for every addition or capacity adjustment. The date is shown in the form "74-74" if the busy season occurs within a single calendar year or in the form "73-74" if the busy season spans a calendar year end. Refer to Part 2 of the appendix, for a definition of the "Busy Season Prior to Exhaust."

⑧ MS Transferred—An entry on this line indicates the quantity of main stations transferred to or from the entity. Main stations transferred from the entity are preceded by a minus sign.

⑨ Transfer Entity—An entry on this line identifies the other entity involved in the main station transfer.

⑩ Centrex Status—An entry on this line indicates the degree of customer commitment for CENTREX. This is a company optional field.

⑪ Optional Line—One line is available to indicate optional information. The desired option may be printed by making arrangements with the D&F DBS Administrator.

Capacity Data Section

⑫ Limiting SE Item—This line represents the equipment item that limits the switching equipment capacity. A list of standard abbreviations appears in Fig. 2 of the appendix.

⑬ MS Cap ADD/TOT SE—This line indicates the main station capacity as limited by switching equipment. The "Added" column is the

gained or lost main station capacity as a result of the job or capacity adjustment. The "Total" column is the new main station capacity as a result of the job or capacity adjustment.

⑭ TC—The data on this line are presented in the same manner as item 13. Entries represent the main station capacity as limited by talking channel (TC) equipment. If an entity is TC limited, the SE limitation should be equal to the TC value. Therefore, the values that appear on this line should not be less than the values that appear in item 13.

⑮ Lines—The data on this line are presented in the same manner as item 13. Entries represent the main station capacity as limited by line equipment.

⑯ NOS—Presented in the same manner as item 13, these data represent the main station capacity as limited by numbers.

⑰ Most Lim—The "Total" column entry on this line is the arithmetic minimum of the Switching Equipment (13), Lines (15), or Numbers (16) entries. The entry in the "Added" column is the added column entry associated with the "Total" column entry.

⑱ AT or Adj. Reason—An entry appears on this line when an area transfer or a talking channel main station capacity adjustment is being reported. For analysis purposes, "TC adjustments" are classified in two categories: a change in CCS/MS or a change in TC design criteria (DSN CRIT).

⑲ CENTREX Cap Added—Entries on this line indicate the "added" and "total" portions of the main station capacity that are available for CENTREX service.

⑳ CRCFU ML—Capacity Required for Changing Future Usage (CRCFU) is used to indicate the effect that forecasts of either increasing or decreasing future usage have on the capacity limiting level of an entity (refer to Part 6 of the appendix for a more detailed description of CRCFU). An entry on this line indicates the gain or loss in main station capacity as a result of a change in the most limiting capacity, due to anticipated changing future usage.

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21 CRCFU TC—An entry on this line indicates the gains or losses in main station capacity of talking channels as a result of a talking channel capacity adjustment, due to anticipated changing future usage.

Equipment Section

22 Numbers Installed—This entry represents the total quantity of numbers provided in the office, including all numbers that are reserved for special uses.

23 Uav Assgn—This entry represents the quantity of numbers unavailable for assignment. Included are numbers reserved for toll and/or tandem purposes.

24 % D Fill—This entry is the objective percent design fill of installed less unavailable for assignment numbers to be used. Percent fills are described in detail in Part 4 of the appendix. The percent fill is calculated for each entity in accordance with the procedures included in Section 780-200-014. Ideally, this percent fill should not be exceeded.

25 Lines Installed—This entry represents the total number of installed lines.

26 Uav Assgn—This entry represents the quantity of lines that cannot be used for

main stations in the entity. Included are lines required for trunks and junctors.

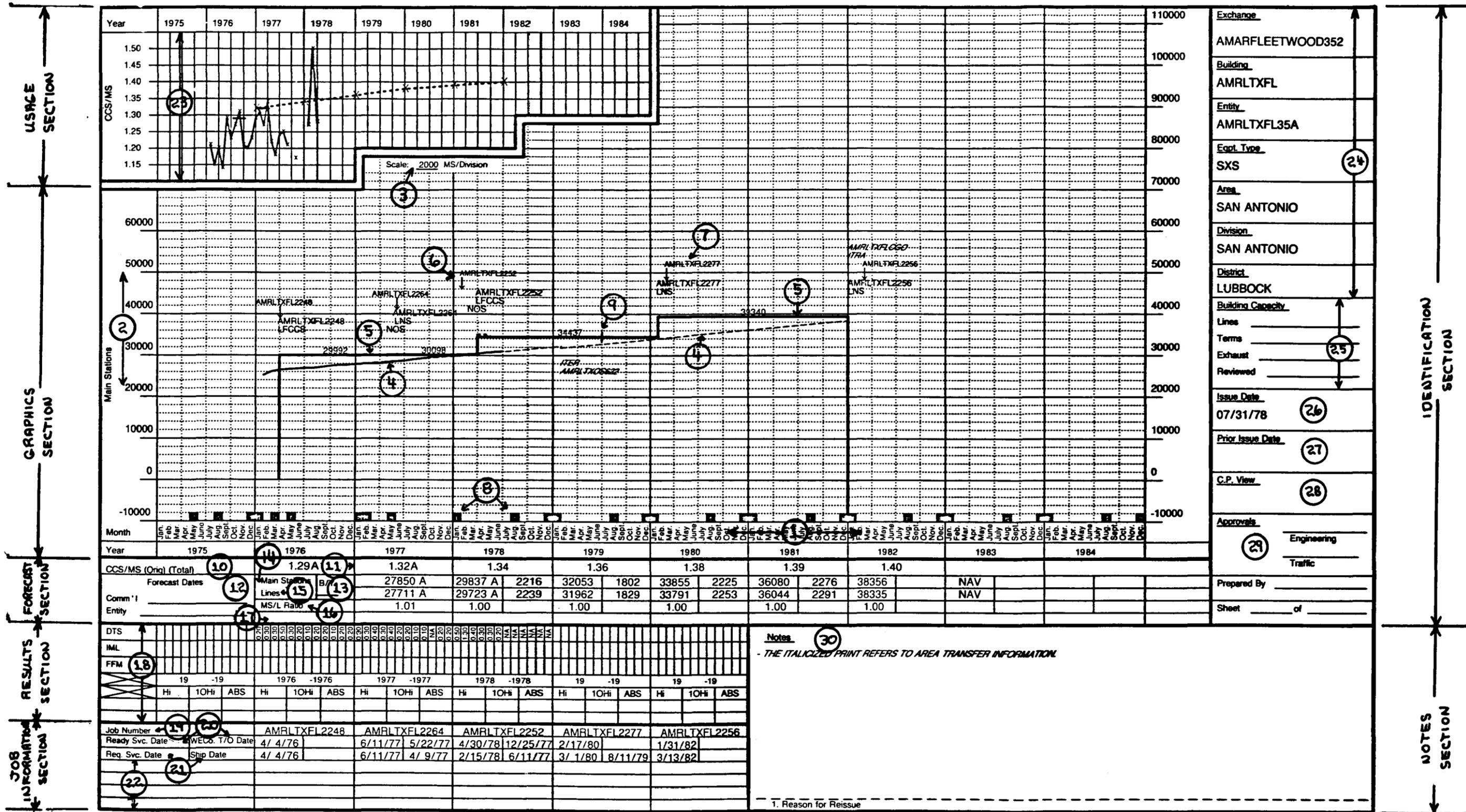
27 % D Fill—This item represents the objective percent design fill for lines and is similar to item 24. This objective fill is calculated for each entity in accordance with the procedures included in Section 780-200-014.

28 Cap In Lines—This entry indicates the capacity of the entity in lines. The value of the entry is calculated by subtracting item 26 from item 25 and multiplying the remainder by item 27.

29 Optional Lines—Up to 13 lines of optional user capacity data may appear in this portion of the equipment section. Options may be printed by making arrangements with the D&F DBS Administrator.

DEMAND AND FACILITY CHART EXAMPLE

2.05 The example D&F Chart for a building provides additional reference material. This chart, based on actual operating telephone company data, illustrates many of the data items described in the preceding paragraphs. Fig. 3 is the graphics page for the building. The building consists of two entities: entity 1 (a No. 1 ESS) is shown in Fig. 4 and 5, and entity 2 (Step-by-Step) is shown in Fig. 6 and 7.



DEMAND AND FACILITY CHART - PART A

Fig. 1—D&F Chart Graphics Page

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IDENTIFICATION SECTION		BUILDING: AMRLTXFL (1)	ENTITY: AMRLTXFL35A	EQ TYPE: SXS				
GENERAL DATA SECTION	JOB ADJ OR TRANSF (2)	AMRLTXFL2248	ADJ1	AMRLTXFL2264	ADJ1	AMRLTXFL2252	AT1	
	REQUIRED SVC DATE (3)	4/ 4/76	**/**/**	6/11/77	**/**/**	2/15/78	**/**/**	
	READY SVC DATE (4)	4/ 4/76	5/26/77	6/11/77	3/16/78	4/30/78	2/ 1/79	
	SHIP DATE (5)	**/**/**	**/**/**	4/ 9/77	**/**/**	6/11/77	**/**/**	
	JOB DESCRIPTION (6)	GA		GA		GA		
	B.S. PRIOR EXHAUST (7)	77-78	77-78	77-78	77-78	79-80		
	MS TRANSFERRED (8)							-413
	TRANSF ENTITY (9)							AMRLTXOS622
	CENTREX STATUS (10)							
	ADVANCE COMP DATE (11)	**/**/**	**/**/**	**/**/**	**/**/**	6/26/77	**/**/**	
CAPACITY DATA SECTION	LIMITING SE ITEM (12)	LFCCS	LFCCS	LFCCS	LFCCS	LFCCS		
	MS CAP ADD/TOT SE (13)	29992	3883 33875	0 33875	0 33875	562 34437		
	TC (14)	29992	3883 33875	0 33875	0 33875	562 34437		
	LINES (15)	30129	0 30129	-31 30098	31 30129	4346 34475		
	NOS (16)	30088	0 30088	46 30134	-7 30127	4416 34543		
	MOST LIM (17)	29992	96 30088	10 30098	29 30127	4310 34437		
	AT OR ADJ REASON (18)		REACH		MS/LN			ITER
	CENTREX CAP ADDED (19)							
	CRCFU ML (20)	0		0		656		
	CRCFU TC (21)	0		0		656		
EQUIPMENT SECTION	NUMBERS INSTALLED (22)	33200	0 33200	0 33200	0 33200	4800 38000		
	UAV ASSGN (23)	0		0	0	0		
	% D FILL (24)	90.400		90.500	90.500	90.600		
	LINES INSTALLED (25)	31600	0 31600	0 31600	0 31600	4800 36400		
	UAV ASSGN (26)	0	0	0	0	0		
% D FILL (27)	94.900		95.000	95.000	94.600			
CAP IN LINES (28)	29990	0 29990	23 30013	0 30013	4405 34418			
NUMBER LLF/LLN (A)								
GENERIC ISS/LLF (SZ)								
CONC RATIO/JTPR								
TOTAL TT CAP	**/**/**	**/**/**	**/**/**	**/**/**	**/**/**	**/**/**	**/**/**	
COEES DATE								

Fig. 2—D&F Chart Data Page

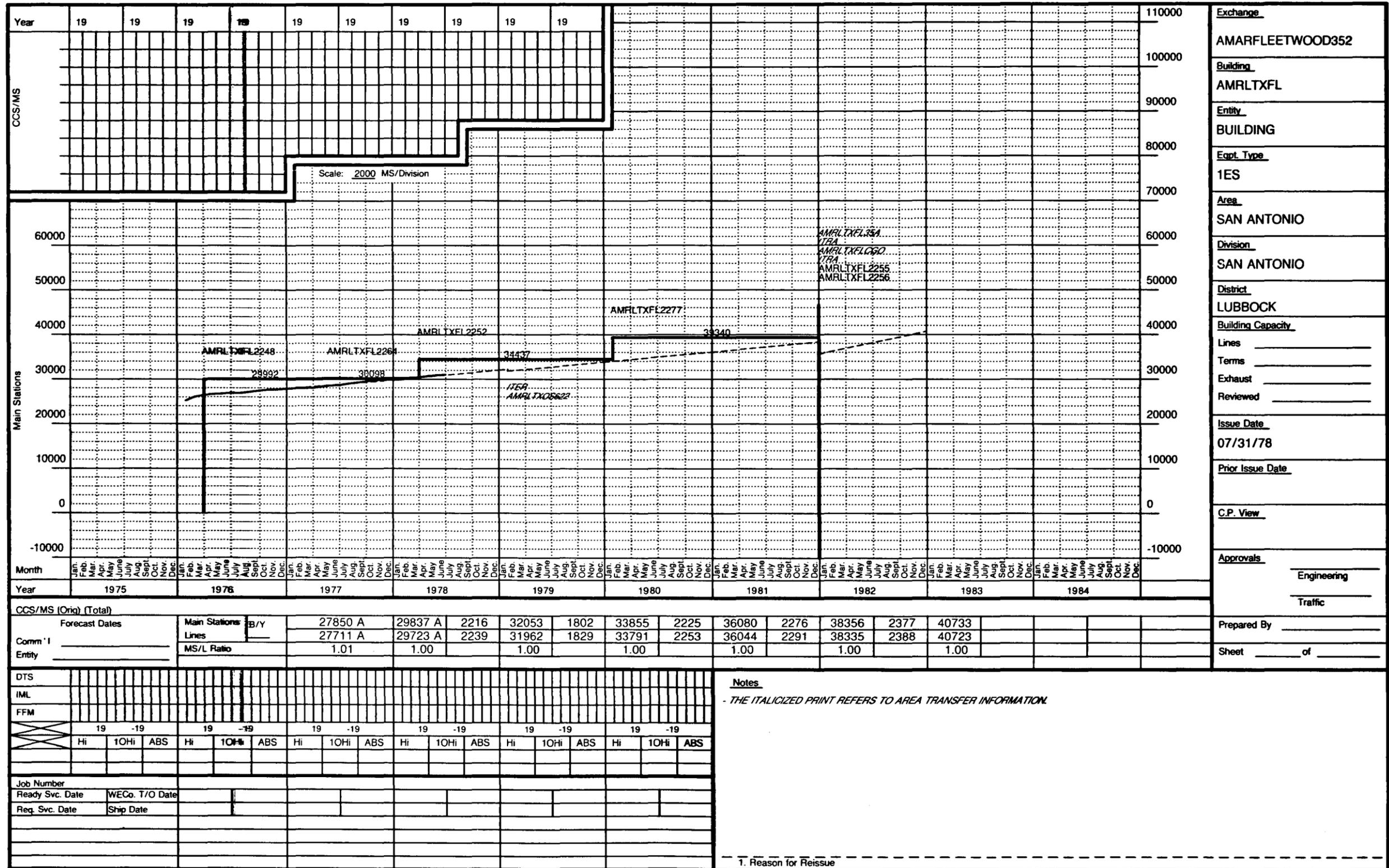


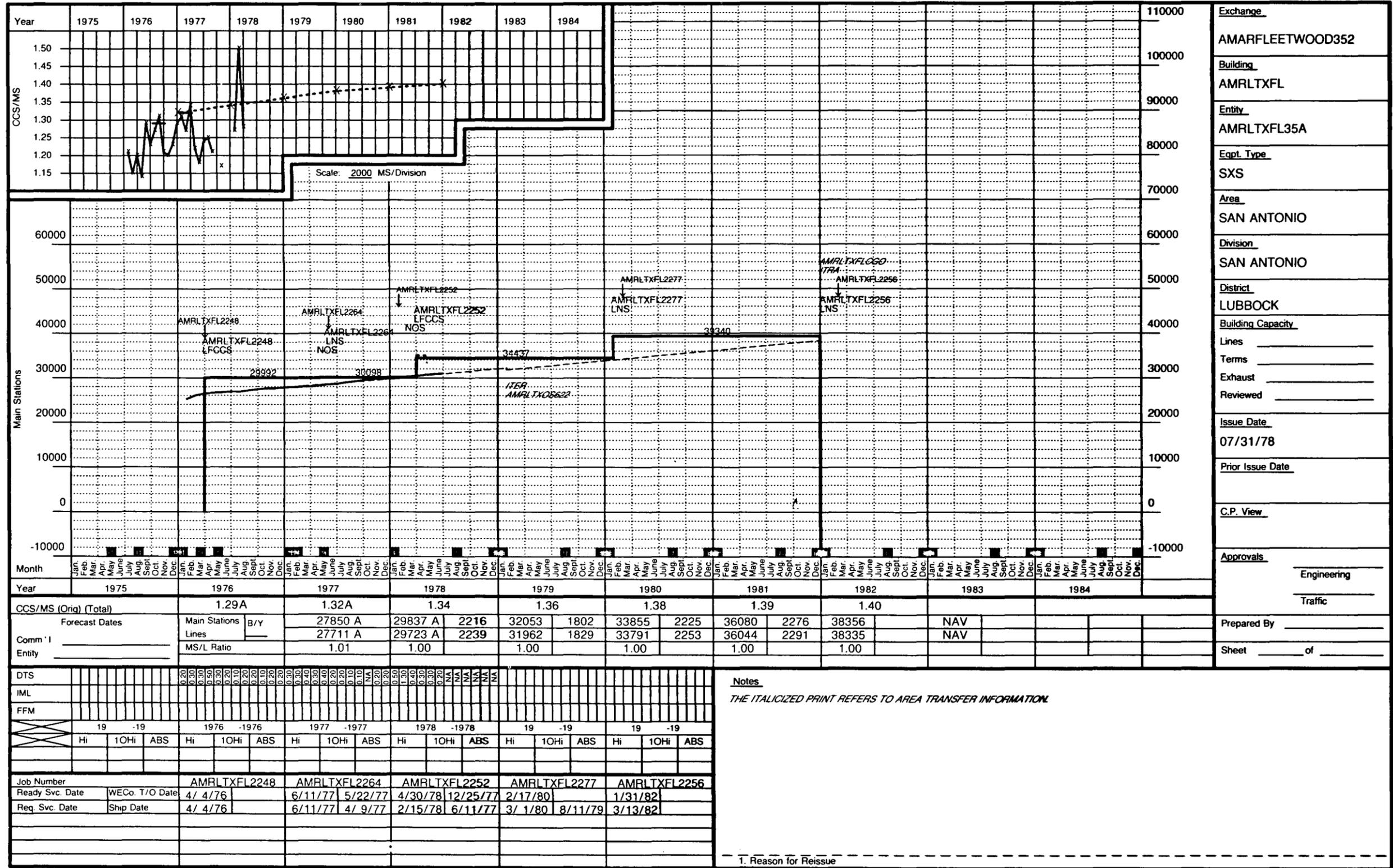
Fig. 3—Graphics Page Example—Building

DEMAND AND FACILITY CHART ... PART B PAGE 1 OF 1 07/31/78

BUILDING:AMRLTXFL ENTITY:AMRLTXFLCGO EQ TYPE:1ES

JOB ADJ OR TRANSF	AT1	AMRLTXFL2255
REQUIRED SVC DATE	**/**/**	3/13/82
READY SVC DATE	1/31/82	1/31/82
SHIP DATE	**/**/**	1/17/81
JOB DESCRIPTION		REPL
B.S. PRIOR EXHAUST		81-82
MS TRANSFERRED	34058	
TRANSF ENTITY	AMRLTXFL35A	
CENTREX STATUS		
ADVANCE COMP DATE	**/**/**	**/**/**
LIMITING SE ITEM		CDR
MS CAP ADD/TOT SE		46694 46694
TC		68201 68201
LINES		46694 46694
NOS		47671 47671
MOST LIM		46694 46694
AT OR ADJ REASON	ITRA	
CENTREX CAP ADDED		
CRCFU ML		0
CRCFU TC		0
NUMBERS INSTALLED		50000
UAV ASSGN		0
% D FILL		95.300
LINES INSTALLED		49152
UAV ASSGN		152
% D FILL		95.000
CAP IN LINES		46694
NUMBER LLF/LLN		12
GENERIC ISS/LLF SZ		1A(1A5)
CONC RATIO/JTPR		4:1
TOTAL TT CAP		11975
COEES DATE	**/**/**	**/**/**

Fig. 5—Data Page Example—Entity 1



Exchange	AMARFLEETWOOD352
Building	AMRLTXFL
Entity	AMRLTXFL35A
Eqpt. Type	SXS
Area	SAN ANTONIO
Division	SAN ANTONIO
District	LUBBOCK
Building Capacity	
Lines	
Terms	
Exhaust	
Reviewed	
Issue Date	07/31/78
Prior Issue Date	
C.P. View	
Approvals	Engineering Traffic
Prepared By	
Sheet	of

Notes
THE ITALICIZED PRINT REFERS TO AREA TRANSFER INFORMATION.

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec					
DTS																																																																	
IML																																																																	
FFM																																																																	
19																																																																	
Hi																																																																	
10Hi																																																																	
ABS																																																																	
Job Number																																																																	
Ready Svc. Date																																																																	
Req. Svc. Date																																																																	

DEMAND AND FACILITY CHART - PART A

Fig. 6—Graphics Page Example—Entity 2

DEMAND AND FACILITY CHART ... PART B PAGE 2 OF 2 07/31/78

BUILDING:AMRLTXFL ENTITY:AMRLTXFL35A EQ TYPE:SXS

JOB ADJ OR TRANSF	AMRLTXFL2277	AT1	AMRLTXFL2256
REQUIRED SVC DATE	3/ 1/80	**/**/**	3/13/82
READY SVC DATE	2/17/80	1/31/82	1/31/82
SHIP DATE	8/11/79	**/**/**	**/**/**
JOB DESCRIPTION	GA		DISP
B.S. PRIOR EXHAUST	80-81		
MS TRANSFERRED		-34058	
TRANSF ENTITY		AMRLTXFLCGO	
CENTREX STATUS			
ADVANCE COMP DATE	**/**/**	**/**/**	**/**/**
LIMITING SE ITEM	LFCCS		LFCCS
MS CAP ADD/TOT SE	4963 39400		-39400 0
TC	4963 39400		-39400 0
LINES	4865 39340		-39340 0
NOS	4798 39341		-39341 0
MOST LIM	4903 39340		-39340 0
AT OR ADJ REASON		I'RA	
CENTREX CAP ADDED			
CRCFU ML		0	0
CRCFU TC		0	0
NUMBERS INSTALLED	4900 42900		-42900 0
UAV ASSGN		0	0
% D FILL	92.800		0.0
LINES INSTALLED	5000 41400		-41400 0
UAV ASSGN		0	0
% D FILL	95.000		0.0
CAP IN LINES	4904 39322		-39322 0
NUMBER LLF/LLN			
GENERIC ISS/LLF SZ			
CONC RATIO/JTPR			
TOTAL TT CAP			
COEES DATE	**/**/**	**/**/**	**/**/**

Fig. 7—Data Page Example—Entity 2 (Sheet 1 of 2)

DEMAND AND FACILITY CHART ... PART B PAGE 1 OF 2 07/31/78

BUILDING:AMRLTXFL

ENTITY:AMRLTXFL35A

EQ TYPE:SXS

JOB ADJ OR TRANSF	AMRLTXFL2248	ADJ1	AMRLTXFL2264	ADJ1	AMRLTXFL2252	AT1
REQUIRED SVC DATE	4/ 4/76	**/**/**	6/11/77	**/**/**	2/15/78	**/**/**
READY SVC DATE	4/ 4/76	5/26/77	6/11/77	3/16/78	4/30/78	2/ 1/79
SHIP DATE	**/**/**	**/**/**	4/ 9/77	**/**/**	6/11/77	**/**/**
JOB DESCRIPTION	GA		GA		GA	
B.S. PRIOR EXHAUST	77-78	77-78	77-78	77-78	79-80	
MS TRANSFERRED						-413
TRANSF ENTITY						AMRLTXOS622
CENTREX STATUS						
ADVANCE COMP DATE	**/**/**	**/**/**	**/**/**	**/**/**	6/26/77	**/**/**
LIMITING SE ITEM	LFCCS	LFCCS	LFCCS	LFCCS	LFCCS	
MS CAP ADD/TOT SE	29992	3883 33875	0 33875	0 33875	562 34437	
TC	29992	3883 33875	0 33875	0 33875	562 34437	
LINES	30129	0 30129	-31 30098	31 30129	4346 34475	
NOS	30088	0 30088	46 30134	-7 30127	4416 34543	
MOST LIM	29992	96 30088	10 30098	29 30127	4310 34437	
AT OR ADJ REASON		REACH		MS/LN		ITER
CENTREX CAP ADDED						
CRCFU ML	0		0		656	
CRCFU TC	0		0		656	
NUMBERS INSTALLED	33200	0 33200	0 33200	0 33200	4800 38000	
UAV ASSGN	0		0	0	0	
% D FILL	90.400		90.500	90.500	90.600	
LINES INSTALLED	31600	0 31600	0 31600	0 31600	4800 36400	
UAV ASSGN	0	0	0	0	0	
% D FILL	94.900		95.000	95.000	94.600	
CAP IN LINES	29990	0 29990	23 30013	0 30013	4405 34418	
NUMBER LLF/LLN						
GENERIC ISS/LLF SZ						
CONC RATIO/JTPR						
TOTAL TT CAP						
COEES DATE	**/**/**	**/**/**	**/**/**	**/**/**	**/**/**	**/**/**

Fig. 7—Data Page Example—Entity 2 (Sheet 2 of 2)