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RUNWAY VISUAL RANGE (RVR)
PROGRAM MANAGEMENT PLAN
PROJECT IMPLEMENTATION PLAN



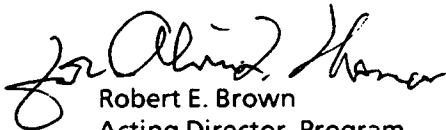
August 10, 1988

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FOREWORD

This order provides management direction for the planning, implementation, and acceptance of the Runway Visual Range (RVR) system into the national Airspace System (NAS). It defines the major functional responsibility levels within the FAA for the procurement and implementation of the RVR program.



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Acting Director, Program
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Table of Contents

CHAPTER 1. GENERAL		<u>Page No.</u>
1.	Purpose	1
2.	Distribution	1
3-19.	Reserved	1
CHAPTER 2. PROJECT OVERVIEW		3
20.	Synopsis	3
21.	Purpose	3
22.	History	3
23-29.	Reserved	3
CHAPTER 3. PROJECT DESCRIPTION		5
30.	Functional Description	5
31.	Physical Description	5
	Figure 3-1. RVR System	6
32.	System Requirements	7
33.	Interfaces	8
	Figure 3-2. RVR External Interfaces	9
34-39.	Reserved	10
CHAPTER 4. PROJECT SCHEDULE AND STATUS		11
40.	Project Schedules and General Status	11
	Table 4-1. Production Schedule	11
41.	Milestone Summary Schedule	11
	Table 4-2. Current Project Sequence	11
42.	Interdependencies and Sequence	12
43.	New Generation RVR System Locations	12
	Table 4-3. Number of Airports and Runways	12
	Receiving New Generation RVR Equipment	12
44.	RVR System Implementation Categories	12
45.	RVR System Elements	13
46-49.	Reserved	13
CHAPTER 5. PROJECT MANAGEMENT		15
50.	Project Management, General	15
	Figure 5-1. RVR Project Management	16
51.	Project Contacts	17
52.	Project Coordination	17
53.	Project Responsibility Matrix	19

	<u>Page No.</u>
54. Project Managerial Communications	19
55. Implementation Staffing	19
56. Planning and Reports	19
57. Applicable Documents	19
Figure 5-2. RVR Project Responsibility Matrix	20
58-59. Reserved	21
 CHAPTER 6. PROJECT FUNDING	 23
60. Project Funding Status, General	23
Table 6-1. Project Funding	23
61. Future Funding	23
62-69. Reserved	23
 CHAPTER 7. DEPLOYMENT	 24
70. General Deployment Aspects	24
71. Site Preparation	24
72. Delivery	26
73. Installation Plan	26
Figure 7-1. RVR System Layout	27
74. Configuration Management Plan	28
75-79. Reserved	28
 CHAPTER 8. VERIFICATION	 29
80. Factory Verification	29
Table 8-1. Reliability Demonstration Sites	30
81. Checkout	30
82. Contractor Integration Testing	30
83. Contractor Acceptance Inspection	30
84. FAA Integration Testing	30
85. Shakedown and Changeover	31
86. Joint Acceptance Inspection	31
87-89. Reserved	31
 CHAPTER 9. INTEGRATED LOGISTICS SUPPORT	 33
90. Maintenance Concept	33
91. Training	33
92. Support Tools and Test Equipment	34
93. Supply Support	34
94. Vendor Data and Technical Manuals	34
95. Equipment Removal	34
96. Facilities	34
97-99. Reserved	34

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Page No.

APPENDIX 1. AAL SITE LOCATIONS
APPENDIX 2. ACE SITE LOCATIONS
APPENDIX 3. AEA SITE LOCATIONS
APPENDIX 4. AGL SITE LOCATIONS
APPENDIX 5. ANE SITE LOCATIONS
APPENDIX 6. ANM SITE LOCATIONS
APPENDIX 7. ASO SITE LOCATIONS
APPENDIX 8. ASW SITE LOCATIONS
APPENDIX 9. AWP SITE LOCATIONS

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CHAPTER 1. GENERAL

1. PURPOSE. This order serves as both a Program Management Plan (PMP) and a Project Implementation Plan (PIP) and provides technical guidance and direction for implementing the new generation Runway Visual Range (RVR) system into the National Airspace System (NAS).
2. DISTRIBUTION. This order is distributed to: branch level in the Program Engineering Service; division level in the Systems Maintenance, Air Traffic Operations, Air Traffic Plans and Requirements, Automation, Acquisition and Materiel Services, Office of General Counsel, Office of Programs and Regulations Management, Office of General Counsel, and Office of Budget in Washington Headquarters; to branch level in the regional Airway Facilities, Air Traffic, Flight Standards and Logistics divisions; and to division level at the Facility Support Division, FAA Academy and FAA Depot at the Mike Monroney Aeronautical Center.
3. RESERVED.

CHAPTER 2. PROJECT OVERVIEW

20. SYNOPSIS. The new generation RVR project consists of procuring and implementing RVR equipment specified in FAA-E-2772 Amendments I through 3. Implementation consists of replacing existing equipment with new equipment, and establishing new RVR sites. Unlike the old transmissometer RVR systems, the new generation RVR system will incorporate a single point visibility sensor. The system will be more modular than existing RVRs and capable of operating in a greater variety of configurations at different locations throughout the NAS.

21. PURPOSE. The purpose of the new generation RVR project is to procure and implement a new generation RVR capable of supporting ILS/MLS Category I, II, III a/b landing and takeoff operations. The new generation equipment will decrease the maintenance load the outdated equipment imposed, reduce installation difficulties associated with the current system design, and provide for easier and less costly future expansion capability. New generation RVR hardware will replace all existing NAS RVR and Runway Visibility Value (RVV) systems, and satisfy all new RVR establishment requirements commencing with the FY84 budget year requirements.

22. HISTORY.

a. The present RVR population is comprised of four generations of RVR equipment existing in a variety of tube-type and solid-state configurations. Sixty-two percent of the total population is equipment of the most recent generation, The Tasker 500, and 88 percent is solid-state equipment. These systems are maintenance-intensive and have limited expandability. The RVRs in use today are based on 30-year-old technology and have served their purpose well; however, the requirement for increased performance capability, i.e., from CAT IIIa to CAT IIIb, and the reduction in agency resources both fiscally and physically have spawned the need for increased performance at reduced maintenance costs.

b. Technology has advanced to the extent that new state-of-the-art sensors capable of replacing the existing visibility sensors have become available. This program represents the culmination of many efforts incorporating state-of-the-art technology, new system design philosophy, and new agency maintenance concepts resulting in the new generation RVR system.

23.-29. RESERVED.

CHAPTER 3. PROJECT DESCRIPTION

30. **FUNCTIONAL DESCRIPTION.** The RVR system generates instrumentally measured RVR information provided to pilots prior to takeoff and landing. The information represents the horizontal distance a pilot can see down an instrument runway. The RVR system is comprised of visibility sensors, an Ambient Light Sensor (ALS), Runway Light Intensity Monitors (RLIMs), Sensor Interface Electronics (SIEs), a Data Processing Unit (DPU), displays, and a System Console (SC) (figure 3-1).

a. **Sensors.** The atmospheric scatter coefficient, ambient light level, and runway edge and centerline light setting levels are measured by the visibility sensor, ALS and RLIM, respectively.

b. **Sensor Interface Electronics.** All sensor output signals are acquired by SIEs, and then digitized, processed, formatted, and transmitted as a single data stream to the DPU.

c. **Data Processing Unit.** The DPU accepts and reduces data, implements algorithms, and continuously distributes the RVR product (RVR visibility data, runway light intensity levels, and trend information) to controller displays and external interfaces. The DPU is also responsible for maintaining real time, archiving, system control, and maintenance diagnostic and reporting functions.

d. **Controller Displays.** The controller displays receive incoming serial data streams from the DPU, perform error checks, format and display RVR visibility values, trend information, and runway light setting levels for controller-selected runways. The displays issue both audio and visual alarms when an RVR value decreases below preset alarm limits or when a failure occurs.

e. **System Console.** A SC consisting of a display, microprocessor, and keyboard is used by a qualified maintenance technician to monitor the system status and output, reconfigure, and initialize the system.

31. **PHYSICAL DESCRIPTION.** The RVR system is a flexible and modular system capable of operating at different locations throughout the NAS, in a variety of configurations. It operates continuously with high reliability, and is optimized for maintainability, simplicity, energy efficiency, and ease of installation consistent with FAA requirements.

a. **Visibility Sensor.** The visibility sensor is compact, lightweight, and can be easily serviced or removed and transported by one individual. It is installed at a single point along the runway, and can be calibrated at its installed site or indoors. The visibility sensor and its corresponding SIE have one output port to the DPU.

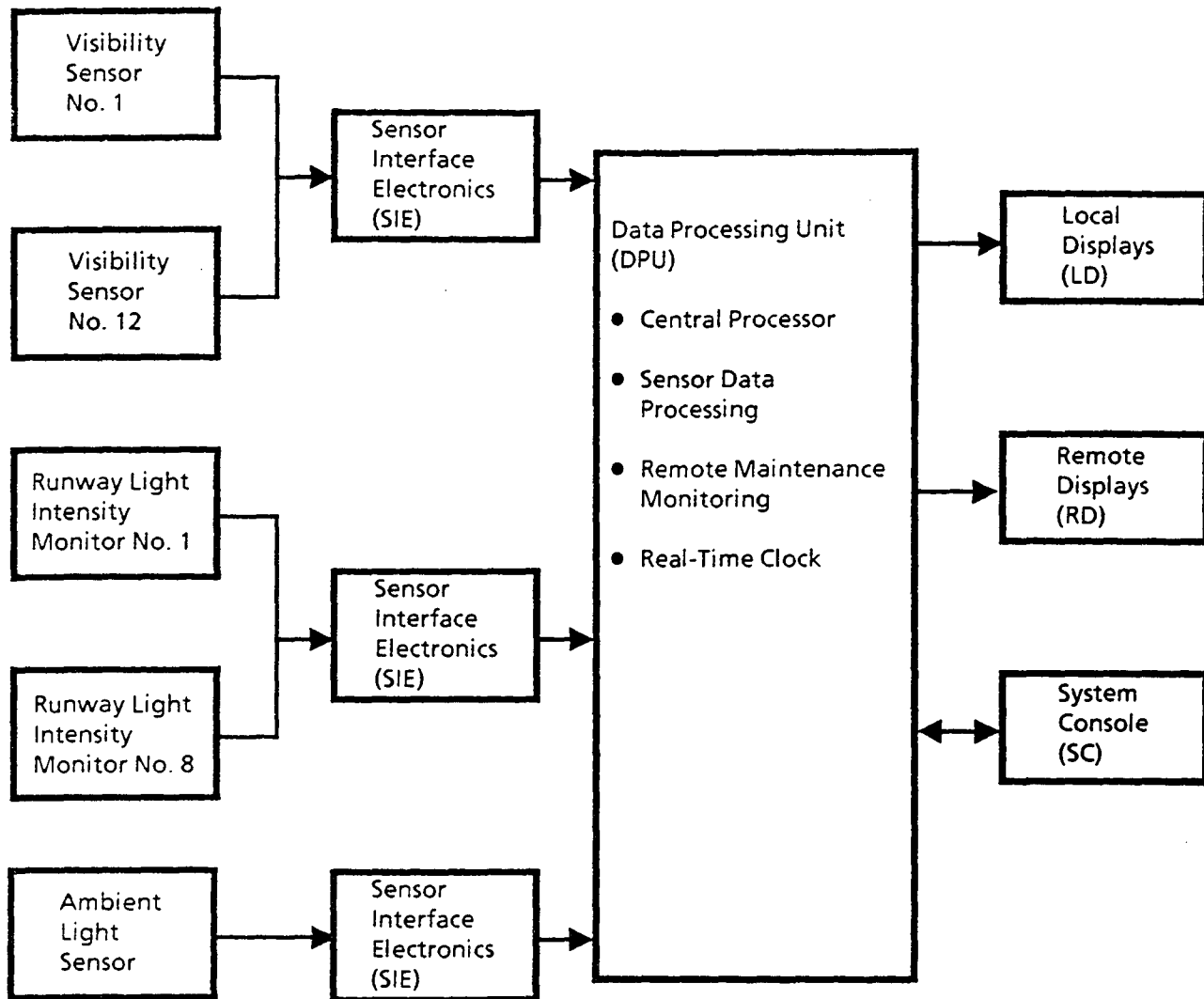


FIGURE 3-1. RVR SYSTEM

b. Ambient Light Sensor. The ALS views the luminance of the north horizon sky six degrees above the horizon, with a six-degree field of view. The ALS, with its corresponding SIE, has one output port to the DPU.

c. Runway Light Intensity Monitor. The RLIM consists of current loop sensor devices, SIEs, and cable to connect the current loop sensor devices to the SIE which may be located up to 75 feet apart. One RLIM is designed to measure the current of the runway edge light and/or centerline light circuit. The RLIM SIE is modular to incorporate inputs from up to four current loop sensors. The RLIM SIE has one output port to the DPU. In some locations, the runway edge lights are split into two separate current loops. In these cases, the RLIM must measure both current loops, and verify that each loop is on the same step setting.

d. Sensor Interface Electronics. SIEs may be an integral part of the sensor, or they may be in a separate package, co-located with the sensor.

e. Data Processing Unit. The DPU is designed for mounting in a standard FAA enclosure per FAA-G-2300, Electronic Equipment Requirements. It has input ports for up to 12 visibility sensors, one AIS, eight RLIMs, and one external coded time source. Its output ports consist of two for local controller displays, two for remote controller displays, and one for the Tower Control Computer Complex (TCCC). Control input/data output ports consist of one port to the maintenance data terminal, one to the remote maintenance monitoring system, one to the SC, four ports to external system users, and two for undesignated locations. The DPU has a 50 percent expansion capability for each of the above-defined data ports, i.e., additional visibility sensor input ports.

f. System Console. The SC display is a nominal, 12-inch diagonal display suitable for either stand-alone or console installation. The SC has a keyboard control for data input/output interface to the DPU. The SC will be used to initialize the RVR system with site-specific data.

g. Controller Displays. The controller display will be a single unit. In order for the display to be compatible with most of the existing RVR display installations (the Tasker 500s), the front panel mounting size is no bigger than 7 inches high by 10 inches wide, and the electronics compartment attached to the display panel is not larger than 5.75 inches high x 8.75 inches wide x 9.0 inches deep. The display is designed for direct DPU connection for distances up to 2000 feet or, through modems, to remote sites. Each controller display has dual communication ports for receiving separate identical RVR product sets from the DPU. Up to 26 displays may be connected to a communications line.

32. SYSTEM REQUIREMENTS. RVR system requirements include power, expandability, reliability, and maintainability considerations. Communications, modularity, and service life are also design considerations of the system.

a. Power Requirements. The RVR equipment operates on commercial power sources (120/240 V $\pm$ 15 percent, 60 Hz $\pm$ 3 Hz, single phase) in addition to individual battery power conditioning systems (for back-up power) powering sensors and sensor electronics to protect against power surges and short-term outages.

b. Communications. Unless stated otherwise, the RVR equipment's interface is via asynchronous serial RS-232 ports, 2400 BPS or higher with selectable baud rate using a subset of ANSI x3.66 protocol standard.

c. Modularity. The RVR system is modular to permit a variety of configurations for meeting site-specific requirements and to facilitate fault isolation and faulty component removal and replacement. Each assembly is removable from its chassis without requiring complete removal of any other subassembly, and hardware is mounted in rack units with slides for easy withdrawal for servicing.

d. System Expandability. The RVR system has the capability to have the software/firmware expanded by up to 50 percent of the total lines of code initially implemented and has the capability for a 50 percent growth in its functional capabilities.

e. Maintainability. Ninety percent of all on-equipment, on-site repairs to RVR systems will not exceed one hour when performed by one qualified and experienced technician. The on-equipment, on-site maintainability requirement (MITR) for the RVR system and its components does not exceed 30 minutes, with a 90 percent confidence level.

f. Reliability. The predicted reliability requirement for the RVR system is 5000 hours MTBF. All RVR equipment complies with the requirements of MIL-STD-785 and MIL Handbook 217, and fulfills the requirements of FAA Order AF 6000.10, Airway Facilities Service Maintenance Program.

g. Maintenance Concept. RVR equipment is designed to meet the requirements of FAA Order AF 6000.10, Airway Facilities Service Maintenance Program. The RVR system maintenance concept, as a minimum, includes capabilities for automated continuous monitoring, on-site module replacement, remote control and status monitoring, automated recordkeeping, remote diagnosis and fault location, and remote system configuration. The RVR system complies with the Operational Requirements for RMMS, NAS-MD-792, and is in accordance with the latest FAA Orders (6000.26A, 6000.27A, and 6000.30), Airway Facilities Service Policy Decisions for the Maintenance Programs of the 1980's, Reliability and Maintainability Policy, and the Transmittal of Maintenance Philosophy Steering Group (MPSG) Report.

h. Service Life. The operating service life of an RVR system is designed to be 20 years with normal maintenance and replacement of failed parts.

i. Lightning/Surge Protection. The RVR design is required to incorporate lightning/surge protection in accordance with FAA Standards -019 and -020.

33. INTERFACES. The RVR system interfaces with the external systems shown in Figure 3-2.

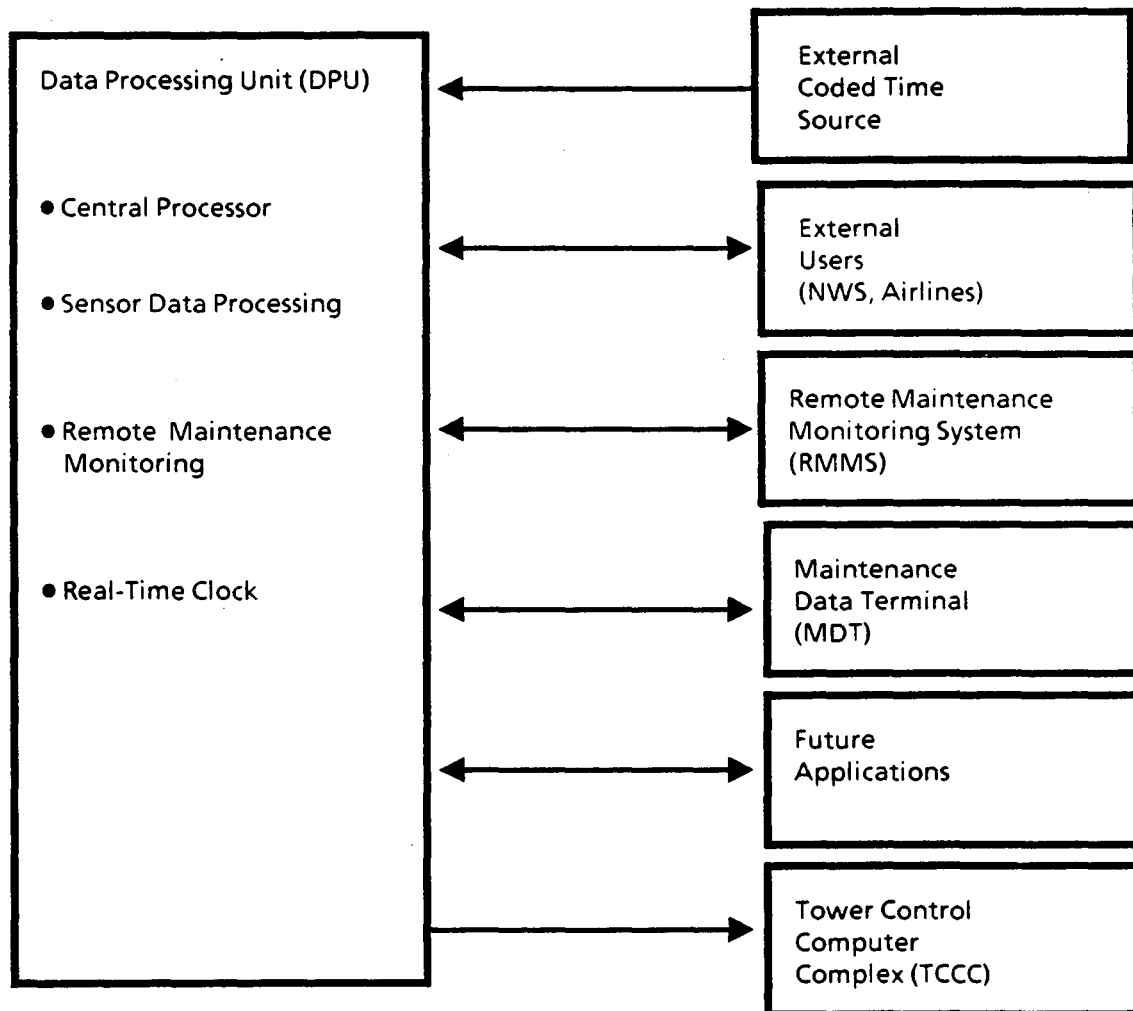


FIGURE 3-2. RVR EXTERNAL INTERFACES

a. Remote Maintenance Monitoring. The Remote Maintenance Monitoring System (RMMS) remotely monitors the RVR to detect actual and potential subsystem or system problems and failures. The RMMS provides the capability to automatically and remotely control monitoring of RVR subsystem performance and communications, record site data and support fault diagnostics. An alarm

or alert is generated when a failure occurs and a maintenance warning is generated to inform the user of an impending failure. RMM signals from the RVR subsystems are transmitted to and collected by the RVR RMS in the DPU for transmission to the Maintenance Processor Subsystem (MPS) of the RMMS. One control input/data output port is available for the interface. The RMMS interface is a two-way interface.

b. Maintenance Data Terminal. The RVR RMS in the DPU provides a two-way interface to the portable Maintenance Data Terminal (MDT) used by maintenance personnel for on-site RVR maintenance activities. The RVR RMS includes a communications mode which provides for the routing of messages between the MDI and MPS. The protocol employed on the MDT/DPU interface is ANSI x3.28, subcategories DI and 2.5. Maintenance personnel use the MDT to request RVR status, retrieve products and archived data, perform system diagnostics, and initialize and reconfigure the RVR system.

c. Coded Time Source. The DPU synchronizes its internal clock with an external coded time source to maintain real time in Universal Coordinated Time. The DPU clock function can be adjusted remotely (RMMS) or from the on-site SC to the correct time. This interface is compatible with the standard IRIG E Code format.

d. Future Applications. Two control input/data output ports are available for future applications.

e. Tower Control Computer Complex. In the future, the RVR System will distribute its product to the TCCC which will be located in most ATCTs. The TCCC will display the products to the controllers for subsequent dissemination to pilots. The RVR interface to the TCCC is described in NAS-IR-31032201, RVR/TCCC Interface Requirements Document. When the TCCC becomes operational, there will be no further need for the RVR individual displays.

f. External System Users. Four control input/data output ports are available to external system users such as airlines and the National Weather Service. A Telco dial-up capability has been incorporated in this interface group for possible future use.

34.-39. RESERVED.

CHAPTER 4. PROJECT SCHEDULE AND STATUS

40. PROJECT SCHEDULES AND GENERAL STATUS. Table 4-1 represents the production strategy for the new generation RVR system procurement. Two basic systems with their maximum complement of RVR system elements will be used for design qualification testing by the contractor. The RVR contractor will conduct reliability demonstrations using 15 basic systems and other ancillary system elements. Site preparation will be accomplished by the FAA. Equipment installation, hook-up, and test will be accomplished by the RVR contractor. An RVR contractor-developed test plan for the reliability demonstration, approved by the program office, will be furnished to the regions. These demonstrations will take place at the 14 sites specified in chapter 8. After successful completion of these tests, production will continue as shown in table 4-1. Two options for additional RVR equipment may be exercised by the FAA; the first is shown below while the second is an option to procure RVR systems for the military. FAA regional personnel will install all production RVR systems.

TABLE 4-1. PRODUCTION SCHEDULE

<u>PRODUCT</u>	<u>Testing</u>		<u>Continuing Production</u>	<u>Opt. 1</u>	<u>Total</u>
	<u>Des. Qual.</u>	<u>Re1. Demo.</u>			
Basic RVR System	2	15	112	47	176
Sensor Package	22	62	62	30	176
RLIM	14	22	10	13	59
Displays	12	123	377	188	700

41. MILESTONE SUMMARY SCHEDULE. The current project schedule is shown in table 4-2. Project events are scheduled in relationship to the date of contract award (DOA). The new generation RVR procurement strategy is one of full and open competition and will utilize the SEB process. This procurement approach provides the FAA the flexibility of negotiating both cost and technical considerations to achieve a new generation RVR satisfying all performance, maintainability, and reliability requirements at a minimum life-cycle cost.

TABLE 4-2. CURRENT PROJECT SCHEDULE

<u>Event</u>	<u>Date</u>	<u>Months After Contract Award</u>
Solicitation Issued	5/87	-
Cost/Technical Review Completed	12/87	-
Contract Award	6/88	DOA
Preliminary Design Review	2/89	DOA + 8
Critical Design Review	8/89	DOA + 14
First System Delivery (Reliability Demo. Site)	7/90	DOA + 18
First System Delivery (DEPOT)	7/90	DOA + 25
First ORD Completed	10/90	DOA + 28
Last System Delivery (DEPOT, without option 1)	7/91	DOA + 37
Last System Delivery (DEPOT, with option 1)	2/92	DOA + 42

42. INTERDEPENDENCIES AND SEQUENCE. RVRs are implemented to support ILS/MLS precision approach and landings; thus, RM requirements are dependent upon ILS installations for Category I, II, and III a/b operations. Category I requirements for a touchdown RVR must meet and be justified through criteria contained in FAA Order 7031.2C, Airway Planning Standard No.1. Category II and III a/b RVRs are automatically justified following the determination that a selected precision approach runway is to be upgraded to CAT II or CAT III a/b operation. Other ground equipment is necessary, both FAA-furnished and sponsor-furnished, and must be in place or expected in place coincidental with the RVR implementation to support the increased demands of Category II or III a/b operations. These are defined in FAA Order 6750.24A.

43. NEW GENERATION RVR SYSTEM LOCATIONS. New generation RVR system locations are assembled in Appendices 1-9. Each airport budgeted to receive new equipment is represented with a runway layout and descriptions of existing and required new generation RVR system equipment. Each runway to be modified has been identified with an implementation category and fiscal year funding. Table 4-3 lists the number of airports per region budgeted to receive new generation RVR equipment, number of visibility sensors (RVRs) required per region, and the number of runways per region at which sensors will be installed.

TABLE 4-3. NUMBER OF AIRPORTS AND RUNWAYS RECEIVING NEW GENERATION RVR EQUIPMENT

<u>Region</u>	<u>No. of Airports</u>	<u>No. of Sensors Required</u>	<u>No. of Runways</u>
AAL - Alaskan	12	16	12
ACE - Central	15	24	17
AEA - Eastern	47 (+ 1 TRACON)	86	56
AGL - Great Lakes	47	91	60
ANE - New England	15	27	16
ANM - Northwest Mountain	32	52	39
ASO - Southern	55	116	70
ASW - Southwest	32	67	43
AWP - Western Pacific	29	49	34

44. RVR SYSTEM IMPLEMENTATION CATEGORIES. New generation RVR systems will satisfy all budgeted requirements starting with the FY84 budget and budgeted for in three categories.

a. Modify. Two classifications of action fall within the modify category. The first action is to convert RVV systems to RVR systems by adding an RVR computer and light references necessary to provide the more precise RVR value. The second modify action is replacing obsolete RVR systems (Tasker 400 and SSR) with Tasker 500 systems. Both these original budgeted actions will be completed using new generation RVR systems in lieu of Tasker 500 systems.

b. Establish. The RVR establish category responds to requirements to provide new touchdown RVR systems at locations that meet the benefit/cost criteria contained in Airways Planning Standard No. 1. This will be satisfied with new generation RVR equipment.

c. Category IIIb. The establishment of category IIIb RVR systems responds to new operational requirements for RVR that cannot be met with the present RVR systems.

45. RVR SYSTEM ELEMENTS. RVR equipment has been identified under four separate NSN categories to fulfill specific requirements of each airport or TRACON location. The system is capable of supporting four fully instrumented runways (12 visibility sensors), or any combination thereof, at a single location.

a. Basic RVR System. (NSN 8200-00-540-26961). The basic RVR system consists of a visibility sensor, DPU, ALS, RLIM, SIEs, and an SC. Also included is a complete set of system cables with connectors, a visibility sensor calibration device, and spare parts kits for each RVR subsystem. The basic RVR system contains all hardware requirements, except for displays, necessary to establish the first RVR requirement at a new airport location. Once a basic system has been installed, expansion capability is accomplished through the installation of additional visibility sensors, RLIMs, and displays as required.

b. Sensor Package. (NSN 8200-00-540-27001). An RVR sensor package includes a visibility sensor, its SIEs, and system cables and connectors. This package is procured to establish multiple sensors at an airport location (i.e., adding a rollout RVR or touchdown RVR on a different runway). A maximum of 12 sensors can be accommodated by the DPU.

c. Runway Light Intensity Monitor. (NSN 8200-00-540-26991). An RLIM is required for every runway with a visibility sensor. A maximum of eight monitors can be accommodated by the DPU. A current loop sensor device, SIEs, and a set of system cables with connectors comprise the RLIM package.

d. Displays. (NSN 8200-00-540-26971). Displays may be procured on a site specific basis, depending on the number of operating positions in a tower cab or TRACON. Displays are identified as being located in an ATCT, TRACON, NWS facility, or at other locations subject to conformance to agency policy. If a separate power supply is used, a set of system cables with connectors will be packaged with the display.

46.-49. RESERVED.

CHAPTER 5. PROJECT MANAGEMENT

50. PROJECT MANAGEMENT, GENERAL. This section describes the organizations within the Program Engineering Service (APS) directly responsible for RVR project management. RVR project management structure is shown in figure 5-1.

a. Program Engineering Service. APS manages, directs, and executes the FAA's airway engineering activities and research and development efforts related to airports, aircraft safety, and aviation security activities to ensure the NAS is efficient, economical, and responsive to operational needs.

b. Navigation and Landing Division. The Navigation and Landing Division (APS-400) is the principal element of the Service for the design, development, and implementation for systems and programs covering navigation and landing systems and facilities requirements in the areas of airborne, cockpit systems, navigation systems, landing systems, and rotorcraft.

c. Current Landing/Lighting Systems Program. The Current Landing Systems Program (APS-440) is the principal element of the division for design, development, and implementation responsibilities for instrument landing systems and landing aids.

d. National Airspace Integrated Logistic Support Management Team (MAILSMT). The MAILSMT team provides technical support to the program management to ensure that logistics support is planned for and integrated throughout the projected acquisition cycle.

e. Runway Visual Range Project. The RVR Project Manager is supported by engineers and an analyst and is responsible for managing the design, development, and implementation activities associated with the new generation RVR. The project manager's duties include:

(1) Management. Planning, scheduling, and managing the RVR project from design through commissioning, logistics support, training, and program completion including maintenance. Responsible for systems engineering, system design, man-machine interface, component design and related functional, technical, and performance characteristics.

(2) Equipment performance. Supporting the System's Maintenance Service (ASM) in the areas of analyzing equipment performance, evaluating field maintenance activities, and making recommendations to improve safety, reliability, maintainability, and supportability of RVR equipment being developed, procured, and installed.

(3) Modernization input. Developing service input for the modernization or in-service improvement of RVR equipment.

(4) Technical Officer. Providing engineering advice and consultation to contracting officer during procurement, serving as technical officer, and reviewing contractor requests and progress payments.

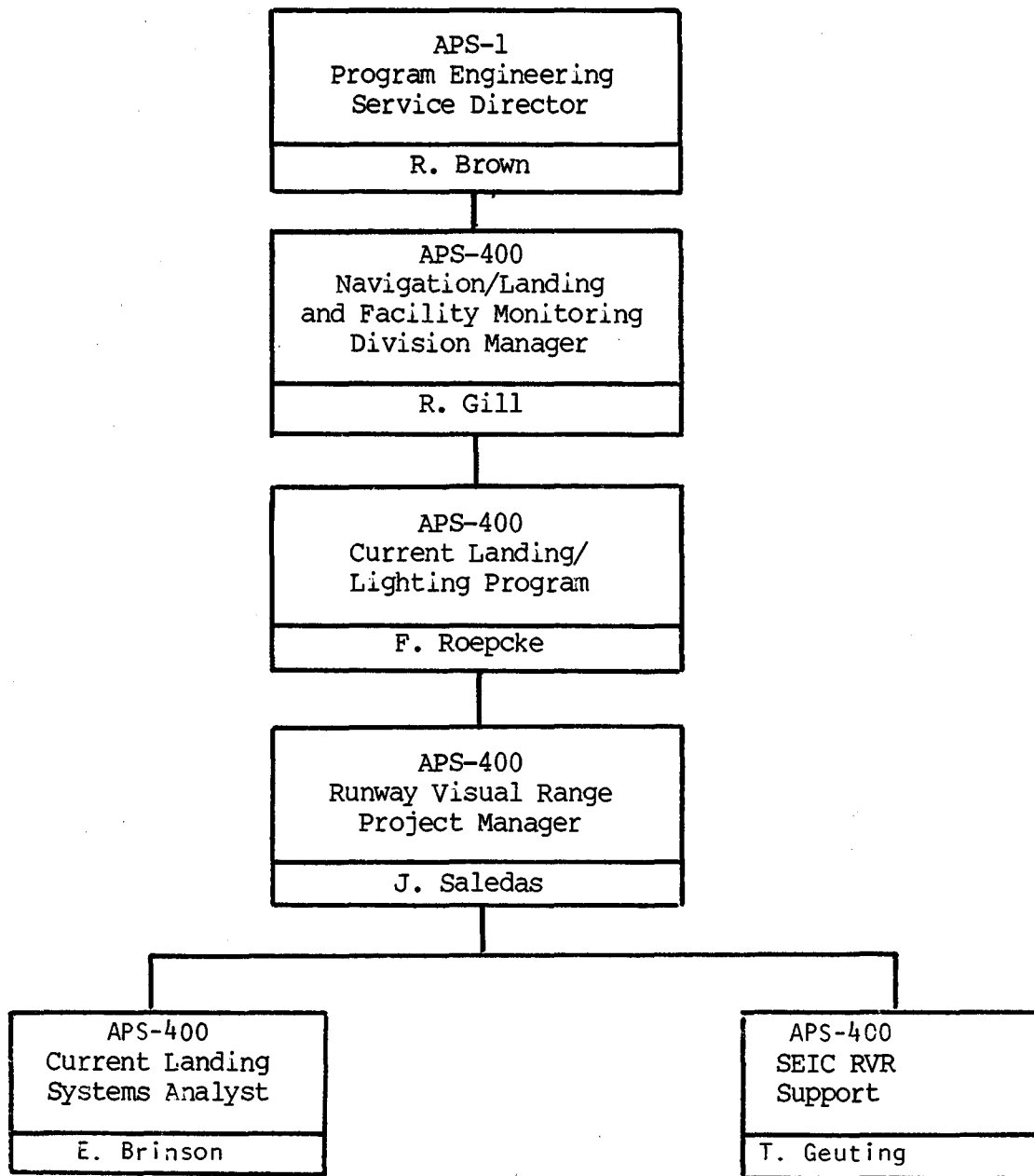


FIGURE 5-1. RVR PROJECT MANAGEMENT

(5) Cost data. Developing and providing cost data, controlling assigned funds, and adjusting program schedules and objectives as necessary.

(6) Maintenance plans. Preparing maintenance plans, identifying training, provisioning and test requirements, and directing the preparation of maintenance technical handbooks.

(7) Testing. Arranging and monitoring field test and evaluation of RVR equipment.

(8) Inventory. Managing in transit material and maintaining currency of material systems and control over facilities and RVR equipment inventory.

(9) Installation. Evaluating installation activities and determining compliance with installation standards, specifications, and operational requirements.

(10) Acceptance. Providing research, engineering, development, design and systems analyses associated with acquisition and acceptance of RVR hardware and software.

51. PROJECT CONTACTS. This paragraph lists RVR project contacts and their addresses.

a. RVR Project Manager. John Saledas, APS-440, Federal Aviation Administration, 800 Independence Avenue, Washington, D.C., 20591, FTS 267-8546, (202)267-8546.

b. RVR Project Analyst. Ellen Brinson, APS-440, Federal Aviation Administration, 800 Independence Avenue, Washington, D.C., 20591, FTS 267-8545, (202)267-8545.

c. RVR SEIC Support. Tom Geuting, SCT, DC1030, 475 School St., S.W., Washington, D.C., 20024, (202)646-5471.

52. PROJECT COORDINATION. The RVR project coordinates with other services within the FAA and divisions within APS. Responsibilities are contained in this paragraph.

a. Maintenance Automation Division. The Maintenance Automation Division (APS-200) is responsible for the design, development, and implementation of the RMMS project. The RVR RMS is a part of the RMMS, and APS-200 provides guidance and documentation to support the RMS development.

b. Systems Maintenance Service. The Systems Maintenance Service has the responsibility to assure that NAS subsystems, when fielded, are provided the appropriate level of maintenance and logistics life-cycle support. Specific responsibilities are:

(1) Technical Standards Program, ASM-120. ASM-120 reviews RVR procurement specifications to ensure the design meets the reliability and maintainability requirements and supports the general maintenance philosophy. ASM-120 also coordinates the integrated logistic support plan developed by the program office and the SEI Contractor for the RVR system acquisition and develops maintenance standards and plans for implementation of maintenance concepts.

(2) Facilities Engineering Program ASM-140. ASM-140 is responsible for 80s maintenance planning and implementation, and participates in the development and review of RVR maintenance plans. The program ensures the RVR project conforms with staffing, training and certification policies, guidelines, and requirements.

(3) AF Workforce Requirements Program, ASM-210. ASM-210 is responsible for ensuring that training plans developed for the AF workforce meet established standards and are properly coordinated and programmed. ASM-210 also participates in the RVR integrated logistics support management team to represent the AF training requirements.

(4) Planning and Budgeting Program, ASM-230. ASM-230 is responsible for ensuring the RVR program adequately defines the AF maintenance staffing requirements for the new and modified subsystems and preparing appropriate staffing standard changes.

(5) Concepts and Policy Program, ASM-240. ASM-240 is responsible for ensuring that RVR maintenance concepts meet established requirements and maintenance policy. ASM-240 is also responsible for assuring that NAILS SEI contract resources are programmed to support the integrated logistics management teams.

(6) Telecommunications Management and Operations Division, ASM-300. ASM-300 is responsible for budgeting for interfacility telecommunication lines once source and destination location are identified.

c. MLS/Lighting Systems Program. MLS/Lighting Systems Program (APS-410) coordinates closely with the RVR Program Office on MLS sites that qualify for and require RVR equipment.

d. Materiel Systems Branch. Materiel Systems Branch (ALG-220) directs the implementation of standards for the management and control of RVR material inventory and supply distribution systems.

e. Pricing Staff. Pricing Staff (AIG-305) performs cost/price analyses of contractor's proposals and participates as a member of the Source Evaluation Board on RVR procurements subject to Source Selection Orders.

f. Communications Branch. Communications Branch (ALG-320) provides procurement support for the new generation RVR program and plans, places, and administers contracts through RVR equipment delivery and installation.

g. FAA Depot. FAA Depot (AAC-400) accepts deliveries of RVR systems by the contractor and manages the dissemination of RVR systems to the regions. AAC-400 is responsible for RVR logistics support.

h. Airway Facilities Branch. Airway Facilities Branch (AAC-940) is responsible for maintenance training and coordinating with ASM-210 in the development of a training plan.

i. FAA Regions. The AF division of each FAA region is responsible for the installation of RVR equipment at airports. The regions are responsible for identifying the interconnecting MPS locations for each RVR installation.

53. PROJECT RESPONSIBILITY MATRIX. Figure 5-2 illustrates the FAA organizations responsible for the implementation of each significant function of the RVR project.

54. PROJECT MANAGERIAL COMMUNICATIONS. The RVR project manager within APS-440 is the focal point for all internal project communication. Organizations supporting the RVR program designate a representative to maintain close communication with the Current Landing/Lighting Systems Program office. Supporting organizations maintain communications with both the contractor and internally within the FAA.

a. Contracting Officer. ALG-320 designates a contracting officer (CO) who is responsible for all contractual matters. The CO is the only individual authorized to approve contract changes impacting price, delivery, or schedule.

b. Quality/Reliability Officer. The Industrial Division (ALG-400) assigns a quality/reliability officer (QRO) at the time the RVR contract is awarded. The QRO is the FAA's representative at the contractor's facility and is responsible for verifying quality control. The QRO is directed by FAA policy and procedure, and by the terms and conditions of the contract.

c. Technical Officer. The RVR project manager of APM-440 is also designated as the RVR Technical Officer (TO), and interfaces with the contractor's representatives.

d. Contractor's Representatives. The contractor designates specific individuals to communicate with those individuals listed above.

55. IMPLEMENTATION STAFFING. Not applicable.

56. PLANNING AND REPORTS. Not applicable.

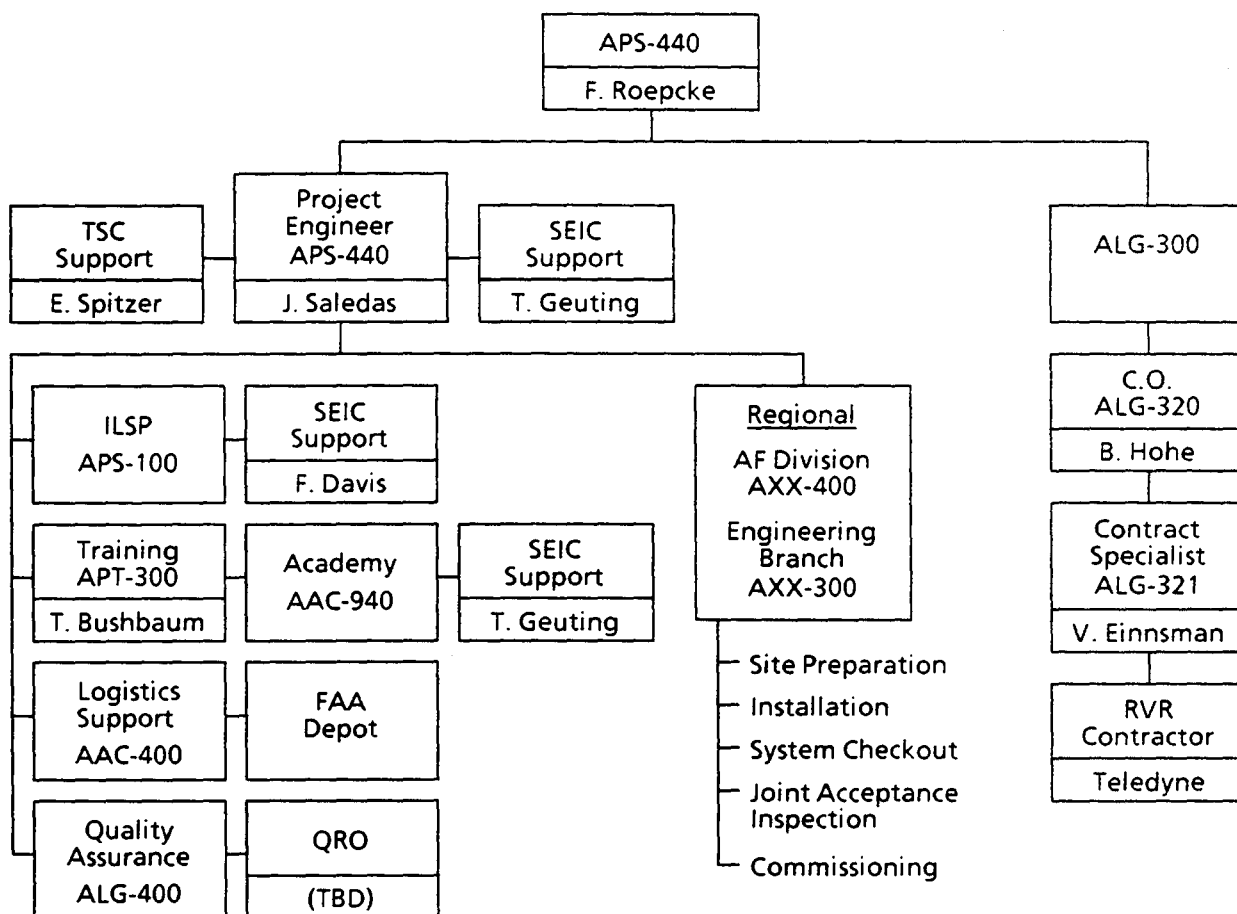


FIGURE 5-2. RVR PROJECT RESPONSIBILITY MATRIX

57. APPLICABLE DOCUMENTS. Within this RVR PMP/PIP, the following documents have been referenced.

- a. FAA-E-2772, Amendment 3, Runway Visual Range System Specification, June 23, 1987.
- b. FAA-G-2300, Panel and Vertical Chassis, Rack, December 1, 1969.
- c. FAA Order 1800.8E, National Airspace Configuration Management, July 11, 1985.
- d. FAA Order 4660.1, Real Property Handbook, Chapter 9, Sections 2 and 3, May 11, 1976.
- e. FAA Order 6000.10, Airway Facilities Service Maintenance Program, June 3, 1982.
- f. FAA Order 6000.26A, Reliability and Maintainability Policy, May 14, 1982.
- g. FAA Order 6000.27A, Transmittal of Maintenance Philosophy Steering Group Report, 1983 Update.
- h. FAA Order 6000.30A, Policy for Maintenance of the National Airspace System (NAS), January 5, 1987.
- i. FAA Order 6030.45, Facility Reference Data File, February, 1987.
- j. FAA Order 6750.24A, Instrument Landing System Auxillary Electronic Component Configuration and Performance Requirements.
- k. FAA Order 7031.2C, Airway Planning Standard Number One - Terminal Air Navigation Facilities and Air Traffic Control Services, November 15, 1984.
- l. MIL Handbook 217, Reliability Prediction of Electronic Equipment, January 15, 1982.
- m. MIL-STD-785, Reliability Program for System Equipment Development and Production, September 15, 1980.
- n. NAS-IR-31012201, RVR to TCCC Interface Requirements Document, August 17, 1987.
- o. NAS-MD-792, Operational Requirements for the RMMS, June 1984.
- p. FAA Order 1800.58, National Airspace Integrated Logistics Support Policy, July 2, 1987.

58.- 59. RESERVED.

CHAPTER 6. PROJECT FUNDING

60. PROJECT FUNDING STATUS, GENERAL. Project funding for the new generation RVR is \$48M and is shown in table 6-1. These funds will be used to procure and implement the RVR system equipment listed in table 4-1. Ninety-seven new sites will be established and 247 pre-Tasker 500 systems will be replaced with these funds. Funding after FY88 has not been approved, and is estimated solely for planning purposes.

TABLE 6-1. PROJECT FUNDING

	84	85	86	87	88	89	90	91	92	93	94	95	TOTAL
Headquarters	1.3	6.2	5.6	0.0	2.7	4.9	10.0	0	0				30.7
Regional	3.2	6.3	2.9	-	2.4	-	-	-	-	-			<u>14.8</u>
Current Total Funding (millions)													45.5

61. FUTURE FUNDING. The concept behind the original project funding was to replace existing RVR systems with state-of-the-art systems which, at that time, were Tasker 500 transmissometer systems. To fulfill Category IIIb requirements, additional sensors for the Tasker systems were to have been procured. When the new generation RVR program was conceived, the program concept changed, but the funding requirements did not. The project funding budgeted for only those systems previously identified as needing upgrading to Tasker 500 and IIIb capability, and some locations qualifying for newly established RVR systems. Consequently, the Tasker 500 systems in existence at the time of the original \$48M budget determination have not been funded for replacement by the new technology RVR systems. The extra funding needed to replace the 178 Tasker 500 systems, and to newly establish an additional 178 systems, is estimated to be \$56M. It is anticipated that a follow on procurement for these 356 systems will occur in the post-1992 time frame.

62.-69. RESERVED.

CHAPTER 7. DEPLOYMENT

70. GENERAL DEPLOYMENT ASPECTS. Deployment of RVR systems is conducted by AAC-400 at the Mike Monroney Aeronautical Center and the FAA regions. As regional funds become available, requests from the regions to satisfy airport RVR requirements are honored by the FAA Depot. RVR equipment is shipped to the requesting airport where it is prepared for installation and installed. Implementation of the equipment is the responsibility of the region.

71. SITE PREPARATION. All site construction and installation work will be region responsibility.

a. Site Preparation. The preparation at each site will be unique according to the type of implementation occurring. Implementation schemes consist of establishing systems at new locations and establishing and replacing systems at locations where RVR equipment exists. The first site preparations will occur at the 14 locations in table 8-1 selected for reliability demonstrations. All preparations for these 15 installations shall be completed no later than 18 months after contract award. Site preparation includes planning for installation at the runway, tower, and field. At existing RVR sites, considerations must be made as to maintaining the operation of existing equipment, while making site preparations for implementing new generation RVR equipment. Other considerations for site preparation include weather conditions and concurrent construction activities.

b. Siting Standards. The new generation RVR components are functionally identical to the existing RVR equipment. All existing RVR orders and standards will be redone. New standard installation drawings will be prepared addressing equipment layout, construction detail and equipment interconnectivity wiring. The RVR new generation equipment will be located as follows:

1. Visibility Sensors. Adjacent to the precision approach runways at the RVR touchdown, midpoint and rollout locations as required, the visibility sensors will be mounted on regionally procured towers.

2. Ambient Light Sensors. Atop the Airport Traffic Control Tower (ATCT).

3. Runway Light Intensity Monitor. Airport Power Vaults for runway edge/centerline lights.

4. Data Processing Unit and System Console. ATCT equipment room racks.

5. Controller Displacer. ATCT cabs and TRACON radar rooms.

6. Displays for National Weather Service (NWS). At NWS offices to replace existing graphic RVR recorders.

c. Cabling. Design requirements for the new generation RVR require the capability to transmit sensor data by any one of three means; 19 psi, signal cable as used today, fiber optic cable, or radio link. Additionally, the systems will be able to transmit RVR data to remote controller displays either directly or via telephone lines.

72. DELIVERY. The contractor delivers 15 RVR systems to 14 sites (table 8-1) 18 months after contract award. The remaining equipment is delivered to AAC-400 and is available to the regions as required for their construction program. The depot ships equipment to the regions as requests are made. The schedule for equipment delivery to the depot is listed below. If option 1 is exercised, delivery of equipment will occur at the same rate listed below beginning with the month following the last delivery of each equipment from the main contract.

a. Design Qualification Systems. The contractor will ship two fully complemented RVR systems used for design qualification tests. They will arrive at the depot no later than 24 months after contract award.

b. Basic Systems. Beginning 25 months after contract award, 10 basic RVR systems per month will be delivered to the depot.

c. Sensors. Beginning 25 months after contract award, 62 sensors will be delivered to the depot at a rate of 20 per month.

d. Runway Light Intensity Monitors. RLIMs will be delivered to the depot at a rate of five per month beginning 25 months after contract award.

e. Displays. Starting 25 months after the contract award, 30 displays per month will be delivered to the depot.

73. INSTALLATION PLAN. Airways Facilities personnel are responsible for the installation of RVR equipment. Figure 7-1 illustrates a configuration typical of the new generation RVR system.

a. General. Existing RVR transmissometer systems consisting of a projector and receiver on towers, must be replaced by a sensor mounted at a single point. New generation displays specifically designed to replace those currently existing in towers must be also installed. RLIMs interfaced with runway edge and centerline lights replace existing runway light setting boxes. New ALSs must be installed and the DPU replaces the functions of the signal data converter mainframe and modules. Installation procedures will be executed in accordance with the instruction books provided to the FAA by the contractor. Advance information will be provided for all reliability demonstration locations. After successful completion of reliability demonstration testing on the 15 systems (table 8-1) installed by the contractor, regional personnel will be responsible for installing their displays in their operational locations in the towers. Appendices 1-9 contain runway configurations of all airports receiving new generation RVR equipment. Airports with existing equipment and those cited for first-time establishment are noted.

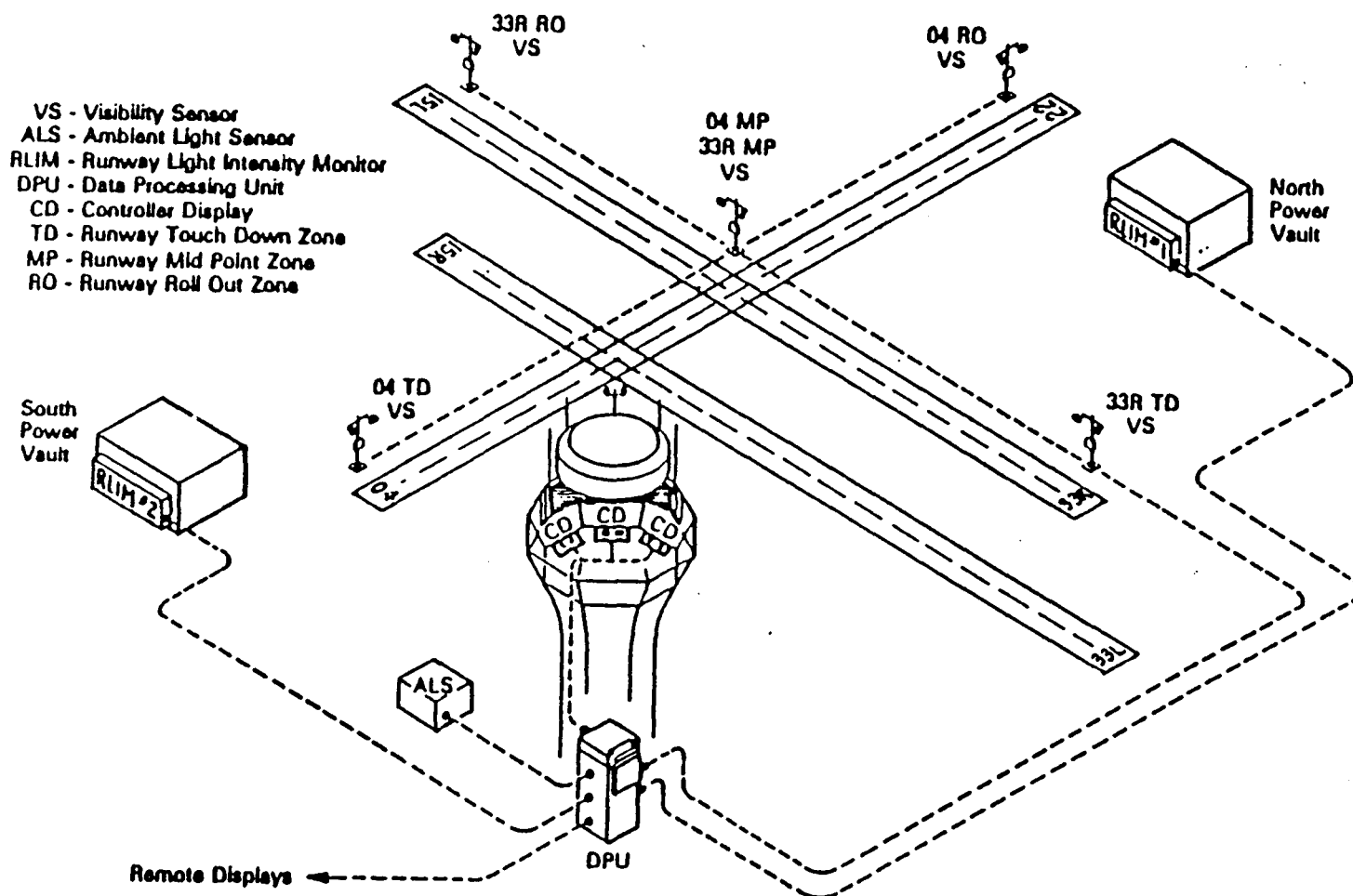


FIGURE 7-1. RVR SYSTEM LAYOUT

b. Installation Philosophy. The installation philosophy for the implementation of new generation RVR equipment is to change out an entire airport at one time. To accomplish this APS-400 will prepare a mass reprogramming action to justify replacement of existing RVR equipment, heretofore unbudgeted, along with the budgeted requirements. Airport locations will be determined in accordance with the following budgeted priorities starting with FY84 and later.

(1) The installation philosophy for RVR equipment is to first satisfy the 1984 budgeted requirements. The priority for installation requirements is as follows:

(a) Establish category IIIb.

(b) Establish category II.

(c) Establish category I.

(d) Convert RVV.

(e) Replace or upgrade.

(2) Using this philosophy, installation of equipment by the regions will first occur at airports with a 1984 budgeted requirement for a category IIIb establishment. When satisfying one of these 1984 budgeted requirements at an airport, all other budgeted requirements for that airport will be satisfied at the same time. In this manner, all site preparation and installation activities at an airport will be concurrent. When all activities at airports with a 1984 budgeted requirement are completed, 1985 budgeted requirements may be satisfied. The same installation philosophy applies to 1985 and the budget years that follow.

74. CONFIGURATION MANAGEMENT PLAN. Configuration management of RVR hardware and associated items are subject to configuration management procedures detailed in the latest edition of FAA Order 1800.8, NAS Configuration Management. Configuration management provides for change coordination before changes to baselined documentation and data are authorized. The NAS configuration control database is maintained by the System Engineering and Configuration Management Office, ASE-200.

75.-79. RESERVED.

CHAPTER 8. VERIFICATION

80. FACTORY VERIFICATION. The RVR contractor performs design qualification, production and type tests at the factory to validate and demonstrate that the RVR system meets the specification requirements of FAA-E-2772. A reliability demonstration will also be performed by the contractor at 14 field sites specified in table 8-1.

a. Preliminary Tests. The contractor conducts preliminary tests to demonstrate readiness for inspection of the two fully complemented RVR systems to be used for design qualification tests. A fully complemented system is comprised of 12 visibility sensors, one SC, one DPU, eight RLIMs, one ALS, associated SIEs, and six displays. The test data is submitted to the FAA 15 days prior to the conducting of the formally witnessed design qualification tests.

b. Design Qualification Tests. The contractor conducts design qualification tests to demonstrate that the RVR system meets the specification performance requirements through inspection, analysis, or actual qualitative or quantitative tests. These tests must be successfully completed before the reliability demonstration test is allowed to commence. They include functional and accuracy tests, environmental tests, power electromagnetic and lightning protection tests, operational verification tests, and demonstration of maintainability and remote maintenance monitoring.

c. Reliability Demonstration. The contractor will demonstrate a MTBF of 5000 hours for the 15 basic systems and associated equipment listed in table 4-1. Prior to the shipment of this equipment to the sites listed in table 8-1, the contractor will have successfully completed design qualification testing, production tests on the systems listed in table 8-1, and type testing for the second group of basic systems. Site preparation for the reliability demonstrations will be the responsibility of FAA regional personnel. The contractor will deliver the equipment for the demonstration no later than 18 months after the contract award, and will install, maintain, and monitor the systems during the tests. The 5000 hour MTBF will be successfully demonstrated by the 24th month after contract award. After a successful reliability demonstration by the RVR contractor, the FAA will conduct a Joint Acceptance Inspection (JAI) and commission the facility in accordance with FAA Order 6030.45.

d. Production Tests. Production tests are performed on every RVR system produced, and include production acceptance tests, electrical and mechanical performance tests, visual inspection tests and burn-in, and calibration tests.

e. Type Tests. The RVR contractor performs type tests to verify that production systems continue to perform in accordance with FAA-E-2772. Production systems are divided into groups according to production number, and one representative system from each group is tested.

TABLE 8-1. RELIABILITY DEMONSTRATION SITES

<u>Airport</u>	<u>Loc. ID</u>	<u>Basic</u>	<u>Sensor</u>	<u>RLIM</u>	<u>Displays</u>
Kansas City	MCI	1	3	1	6
Dulles	IAD	1	3	1	7
JFK	JFK	1	8	3	10
O'Hare	ORD	2	9	2	19
Detroit Wayne	DIW	1	5	2	9
Stapleton	DEN	1	6	2	8
Portland	PDX	1	3	1	8
Seattle-Tacoma	SEA	1	3	1	10
Houston	IAH	1	7	2	10
Los Angeles	LAX	1	5	3	15
San Francisco	SFO	1	4	3	8
Portland	PWM	1	1	0	5
Greater Cincinnati	CVG	1	3	1	4
Anchorage	ANC	1	2	1	4

81. CHECKOUT. After installation of equipment by the regions, FAA personnel conduct checkout tests in accordance with the contractor developed equipment instruction books. The procedures followed include testing electrical and mechanical hardware interfaces, verifying system performance and maintenance capability, and verifying the performance of support hardware and software. The RVR system test set will be used by maintenance personnel to conduct, check out, and calibrate the RVR system.

82. CONTRACTOR INTEGRATION TESTING. Integration testing is performed at the contractor's facility as part of design qualification testing. In addition, the contractor will simulate and demonstrate the interfacing of the RVR system to an MPS and the use of the MDT.

83. CONTRACTOR ACCEPTANCE INSPECTION. Contractor Acceptance Inspection (CAI) of the RVR occurs at the contracting facility. Quality control inspections are performed by the QRO in accordance with FAA requirements. All equipment, excepting the reliability demonstration systems, is accepted at the contractor's facility following successful completion of production and type tests. Final acceptance of the reliability demonstration systems will be in the field following completion of the reliability demonstration tests. Hardware and/or software changes arising out of the reliability demonstration test will be incorporated into these systems prior to final acceptance.

84. FAA INTEGRATION TESTING. MPS integration testing may be conducted when MPS software is available.

85. SHAKEDOWN AND CHANGEOVER. Shakedown testing is performed by FAA regional personnel at the RVR site to support determination that the RVR system is ready for full operation as part of the NAS. After the successful completion of JAI, changeover occurs as the local AF maintenance representative assumes maintenance responsibility for the system. The system is then formally placed into the NAS for operation.

86. JOINT ACCEPTANCE INSPECTION.

a. A joint acceptance board, in accordance with FAA Order 6030.45, inspects and evaluates each RVR installation to determine that the facility has been established in accordance with agency plans, standards, drawings, and specifications; adequately provides for maintenance needs; and is capable of performing its functions on a commissioned basis. An Operational Readiness Demonstration (ORD) is performed as part of the JAI to verify the following.

(1) Documentation. RVR system, subsystem, and equipment documentation accurately describe the facility.

(2) Staffing. Sufficient staffing exists, and personnel are sufficiently trained and familiar with RVR functions and equipment.

(3) Logistic Support. Logistic support capability has been established, and technical logistic data and support material have been furnished.

(4) Records. Real property records exist in accordance with FAA Order 4660.1.

b. At the conclusion of JAI, the joint acceptance board prepares a report documenting the basis for acceptance, and/or commissioning the RVR facility.

87.-89. RESERVED.

CHAPTER 9. INTEGRATED LOGISTICS SUPPORT

90. MAINTENANCE CONCEPT. The RVR system is supported by both site and depot maintenance. The FAA is responsible for the maintenance of new generation RVR equipment. FAA regions assign personnel to AF sectors where work centers, defined by geographic and personnel skill capabilities, are responsible for on-site maintenance of RVR facilities. The FAA is also responsible for FAA Depot repair, alignment and calibration of RVR equipment and LRUs requiring this level of specialized equipment maintenance.

a. Site Maintenance. The RVR system generates failure and alarm messages monitored by the maintenance control center through the FAA's RMMS. Based on the Information provided to the work center via the RMMS, the technician travels to the facility. Remote diagnostic capability at the maintenance work center or at the RVR site allows for fault isolation to the major RVR component or LRU level. If required, the technician conducts further fault isolation and replaces the faulty LRU with a serviceable spare. The technician reports the completion of the repair to the Maintenance Processor Subsystem (MPS) via Log-On with the Maintenance Data Terminal (MDT).

b. FAA Depot Maintenance. FAA Depot maintenance consists of repair of the unserviceable LRUs/components removed from RVR facilities and returned to the depot level facility.

91. TRAINING. Training requirements are provided for both FAA AF personnel and FAA AT personnel.

a. Initial training for FAA AF personnel is conducted by the contractor at the contractor's facility. Training courses are developed and conducted for technicians assigned to RVR maintenance and academy personnel for generating academy residence training capabilities. Training course graduates are able to configure RVR equipment for normal operations, recognize equipment malfunctions, perform corrective action, and document all periodic maintenance. Equipment for the Academy is included under an FY85 budget item and will be satisfied with new generation RVR equipment. Initial training will be accomplished at the contractor's facility and subsequent to that at the FAA Academy. A total of five (5) classes is required by the contract. The following general timetable is anticipated.

b. Training for FAA AT personnel is through a system User's Guide developed by the contractor. The User's Guide will provide the AT personnel the knowledge and capability to call up and display RVR values for any RVR in operation on the airport.

c. The training timetables are as follows:

Contract Date of Award (DOA)	- June 1988
Delivery of User's Guide	- DOA + 15 mos.
Delivery of Academy Equipment	- DOA + 18 mos.
1st Contractor Class	- DOA + 19 mos.
2nd Contractor Class	- DOA + 23 mos.
3rd - 5th Contractor Classes	- DOA + 24-26 mos.
Subsequent Classes	- FAA Academy

92. SUPPORT TOOLS AND TEST EQUIPMENT.

a. The contractor is responsible for the identification and documentation of all required support and test equipment. This will include common and/or unique tools, test equipment, jigs, fixtures, test stands, etc., which are required for the performance of maintenance tasks at all identified maintenance levels. These items will be provided to the Government as specified within the contract SOW. In addition to identification, requirements for unique support and test equipment shall be justified and the equipment will be completely described to enable the Government to make the best determination in satisfying the requirement.

b. The contractor will endeavor to ensure that items currently in the FAA inventory, or currently used to support other FAA equipment, or available within the Government inventory are used to meet system support requirements.

93. SUPPLY SUPPORT.

a. Supply support requirements, in the form of Provisioning Technical Documentation (PTD), will be accomplished under the guidelines of the Contract SOW paragraph 3.3.6.4 and H.1.0. All provisioning efforts for the program will be based upon MIL-STD-1388-2A and 1561B. Formatting of PTD will be accomplished in accordance with specified CDRL's.

b. Supply support for the program will be developed through the provisioning method of procurement as stated in paragraph C.6 of the Contract SOW. The contracting officer will determine the extent of Government purchase of spare parts and assemblies, and will reach a negotiated delivery price and terms of delivery of the desired items.

94. VENDOR DATA AND TECHNICAL MANUALS. Instruction books for the RVR system are provided by the contractor and reviewed by the FAA prior to acceptance. Instruction books are provided with each RVR system that is delivered. Other technical manuals to be provided by the contractor include maintenance, installation and software manuals, reliability, maintainability and test plans, and drawings. The contractor will provide a system User's Guide for the operation of the RVR by AT personnel.

95. EQUIPMENT REMOVAL. Existing RVR equipment is removed by FAA regional personnel and replaced by new generation equipment. Old equipment will be excessed.

96. FACILITIES.

97.-99. RESERVED.

LIST OF APPENDICES

APPENDIX 1. AAL SITE LOCATIONS

APPENDIX 2. ACE SITE LOCATIONS

APPENDIX 3. AEA SITE LOCATIONS

APPENDIX 4. AGL SITE LOCATIONS

APPENDIX 5. ANE SITE LOCATIONS

APPENDIX 6. ANM SITE LOCATIONS

APPENDIX 7. ASO SITE LOCATIONS

APPENDIX 8. ASW SITE LOCATIONS

APPENDIX 9. AWP SITE LOCATIONS

NOTE: Distribution of this order includes only the appendix corresponding to the appropriate region.

APPENDIX 1. AAL SITE LOCATIONS

AIRPORT LOCATION (LOCATION IDENTIFIER)

RESERVED FOR JEPPESEN
AIRPORT LAYOUT

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EXISTING

Runway - RVR Model No.	
RVR Location IDENT.	TD, MP, RO (AS APPLICABLE)
OTHER RVRs (AS APPLICABLE)	

NEW GENERATION

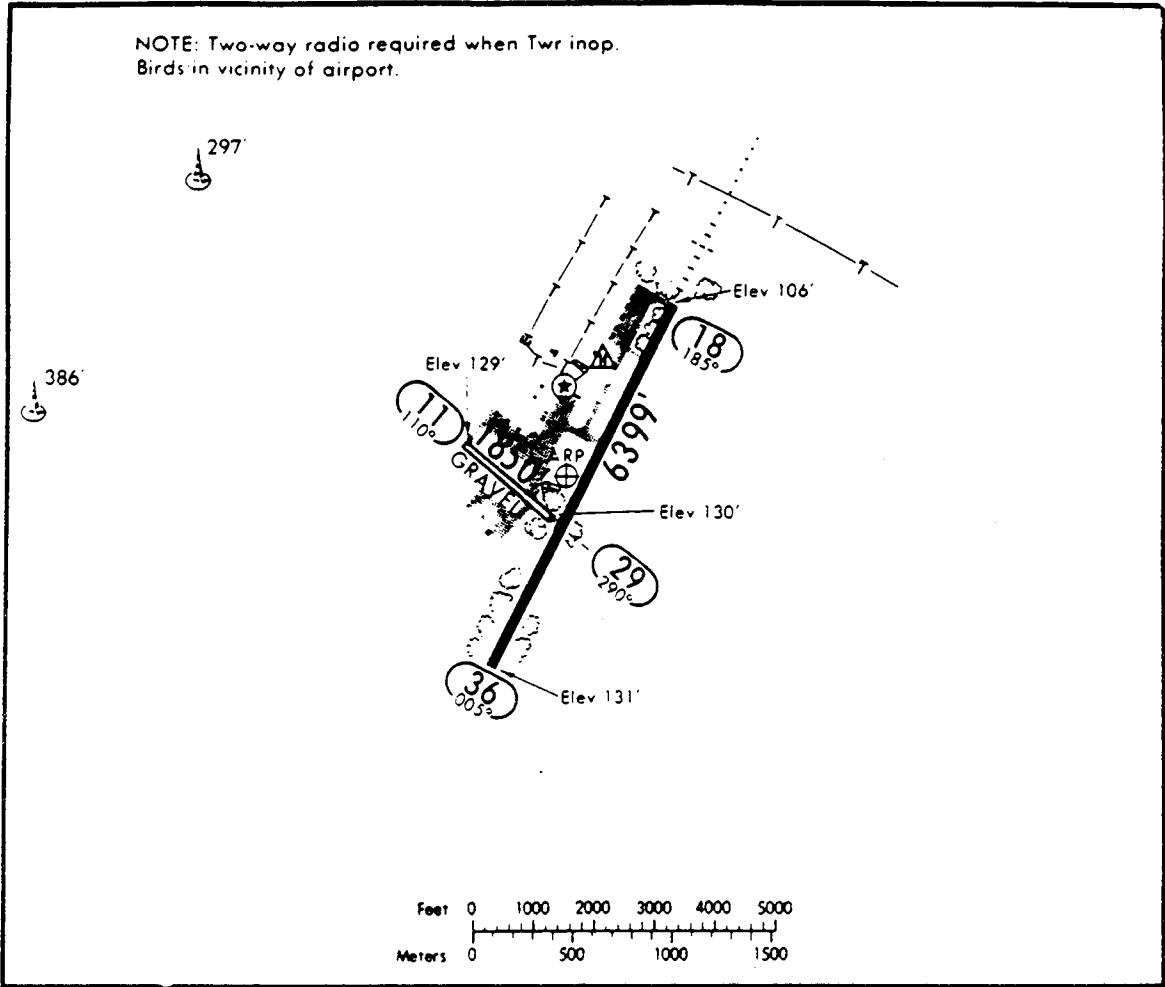
Runway Visibility System (1)	1
Sensor Package (2)	5
RLIM	1
Displays	
ATCT	(a)
TRACON	(b)
NWS (3)	(c)
Other	(d)

Total Displays (a + b + c + d)

- (1) Basic RVR System, Only One per Airport Location
- (2) Number of Existing RVR Sensors (minus 1)
- (3) Graphic Recorder Quantities

BETHEL (BET)

AAL



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EXISTING

NEW GENERATION

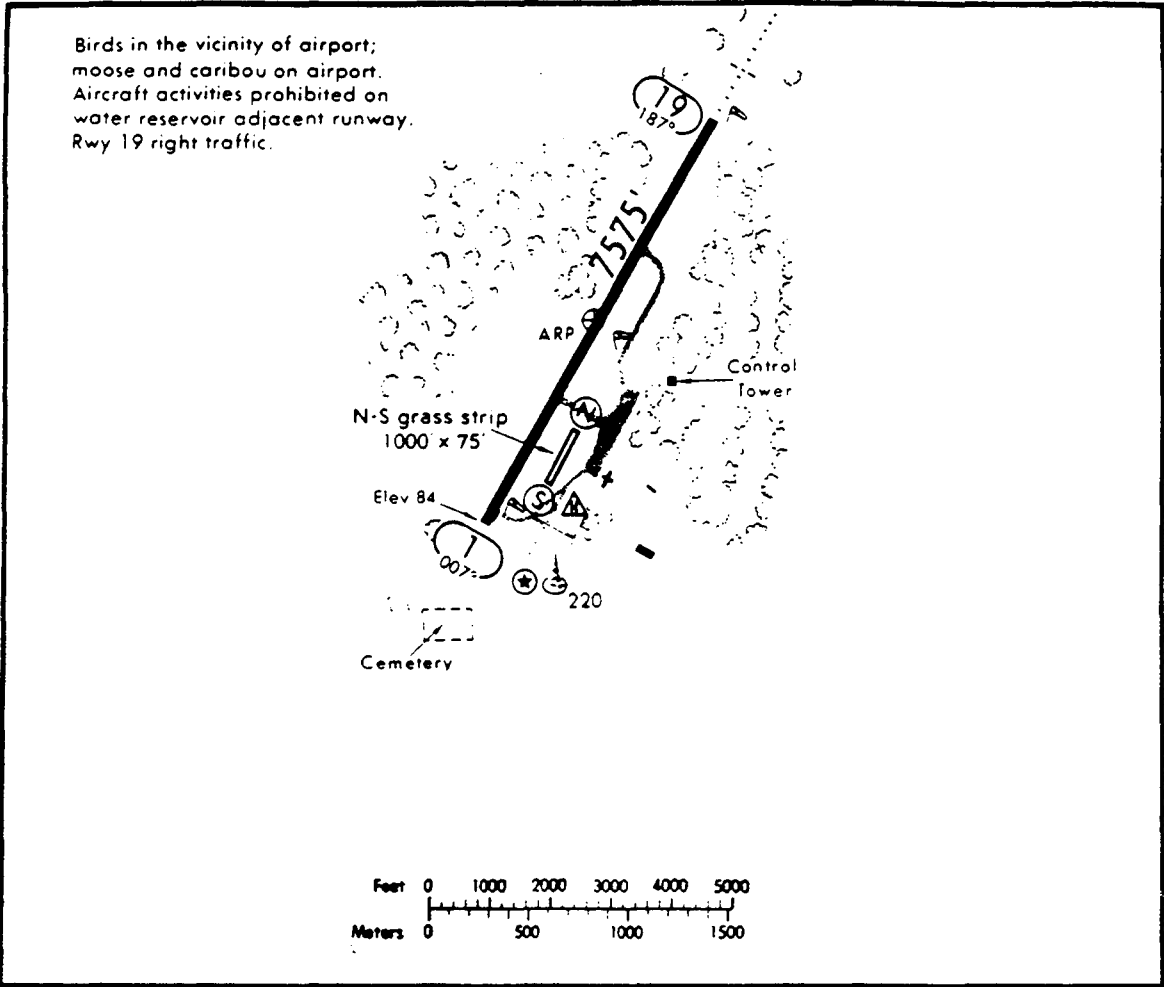
NONE

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	-	
NWS	1	
Other	-	
Total Displays		2

FY 84	ESTABLISH	R/W 11
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KENAI (ENA)

AAL



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EXISTING

NONE

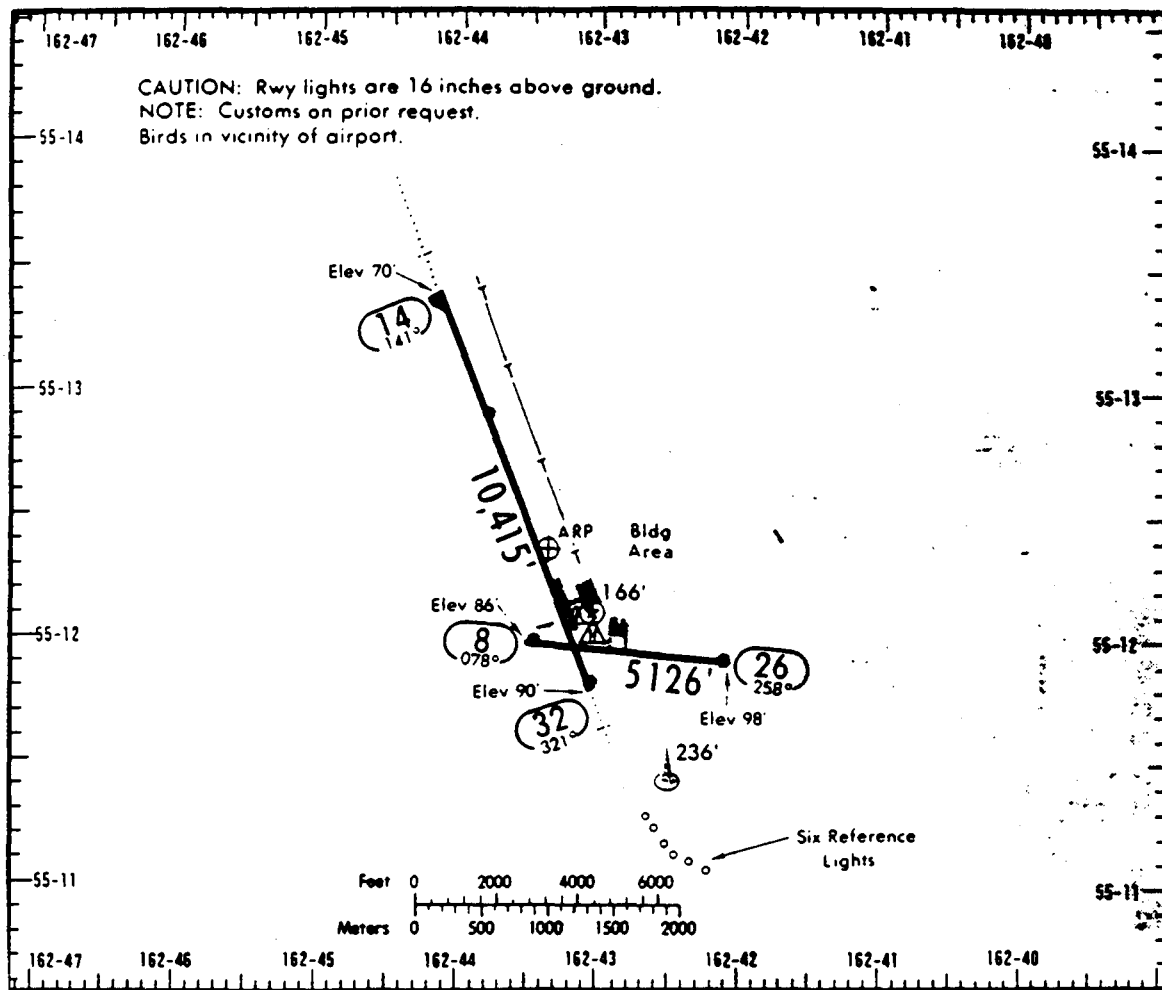
NEW GENERATION

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	-	
NWS	-	
Other	-	
FSS	1	
Total Displays		2

FY 85	ESTABLISH	R/W 19
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COLD BAY (CDB)

AAL

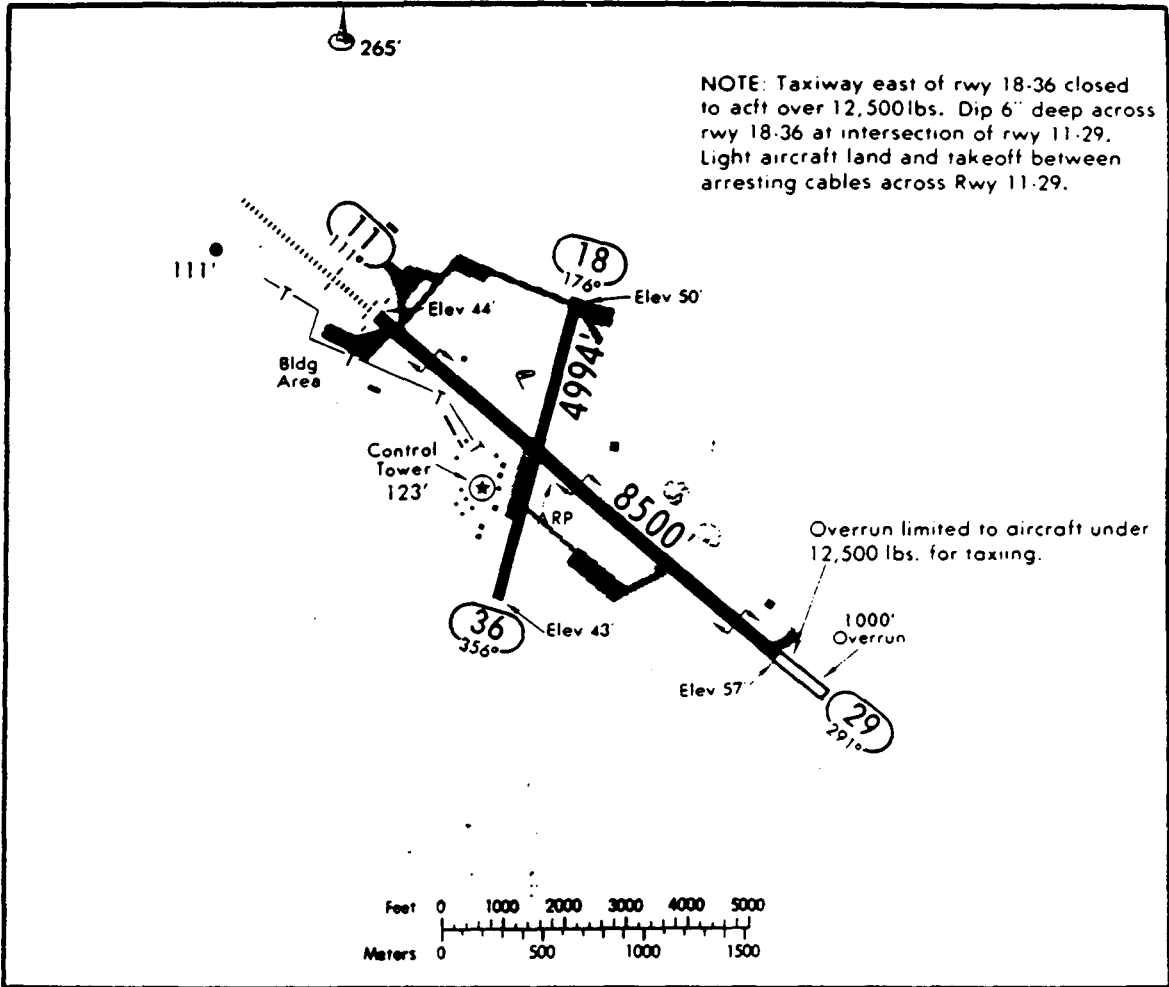
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ALL RIGHTS RESERVEDEXISTINGNEW GENERATION14
CDB 34711
 TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	-	
TRACON	-	
NWS	1	
Other	-	
FSS	1	
Total Displays		2

FY 85	CONVERT RVV	R/W14
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KING SALMON (AKN)

AAL



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NEW GENERATION

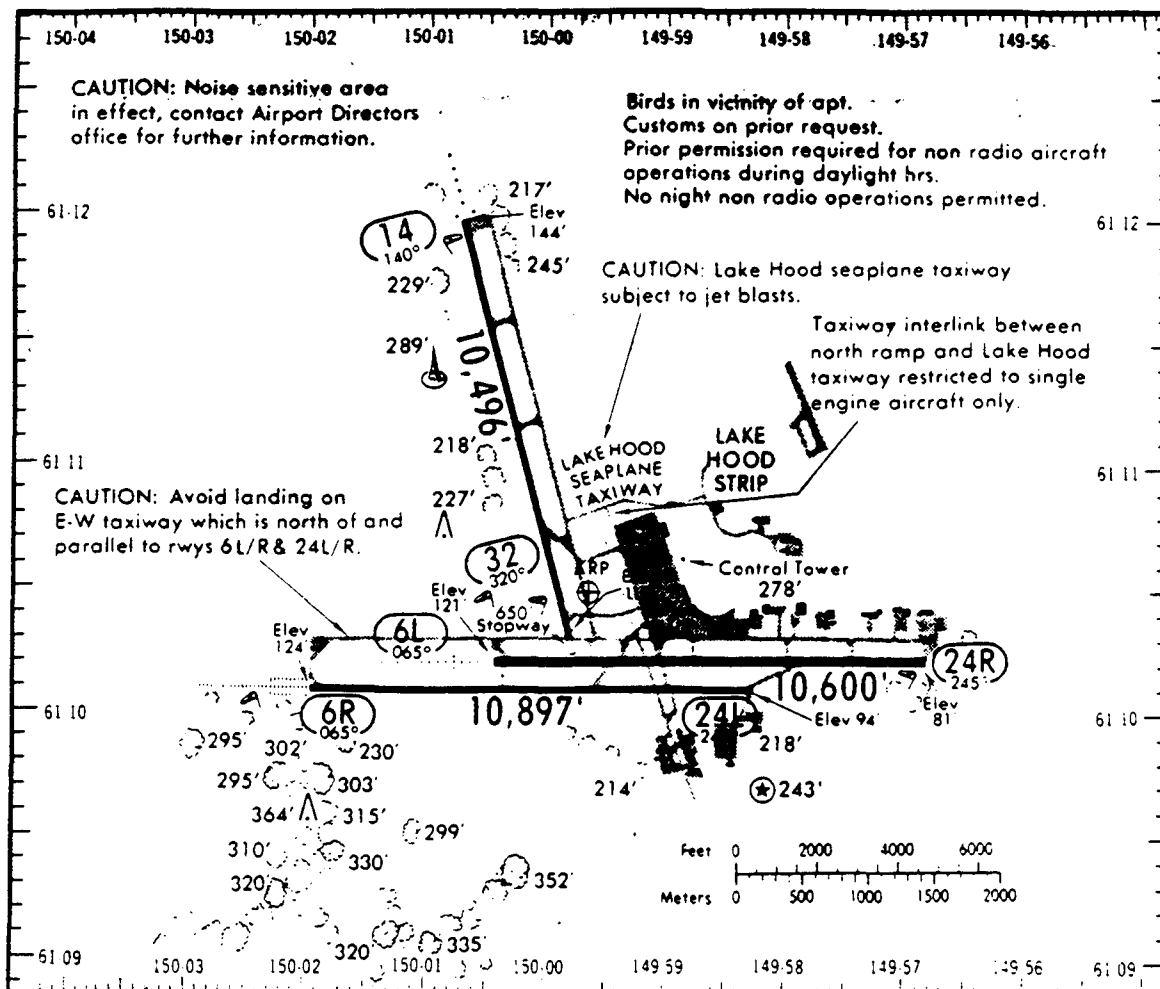
11
AKN 34711
 TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	-	
NWS	1	
Other	-	
FSS	2	
Total Displays		4

FY 85	CONVERT RVV	R/W 11
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ANCHORAGE (ANC)

AAL



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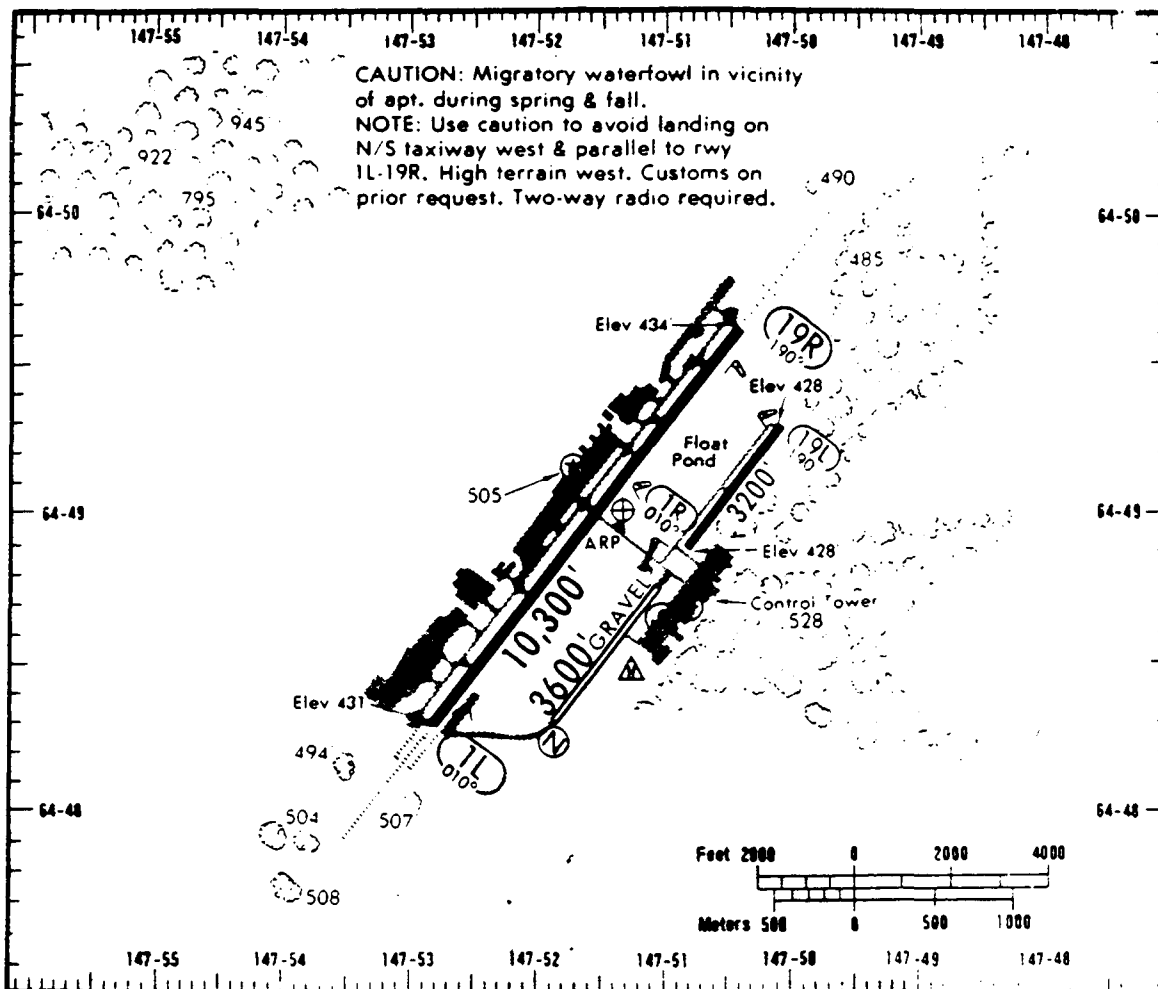
NEW GENERATION

06R	<u>347AC</u>	<u>System Elements</u>	<u>QTY REQ'D</u>
ANC	TD	Basic	1
ANCA	MP	Sensor Packages	2
ANCB	RO	RLIM	–
		Displays	
		ATCT	1
		TRACON	2
		NWS	1
		Other	–
		Total Displays	4

FY 86	REPLACE	R/W 06R
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FAIRBANKS (FAI)

AAL



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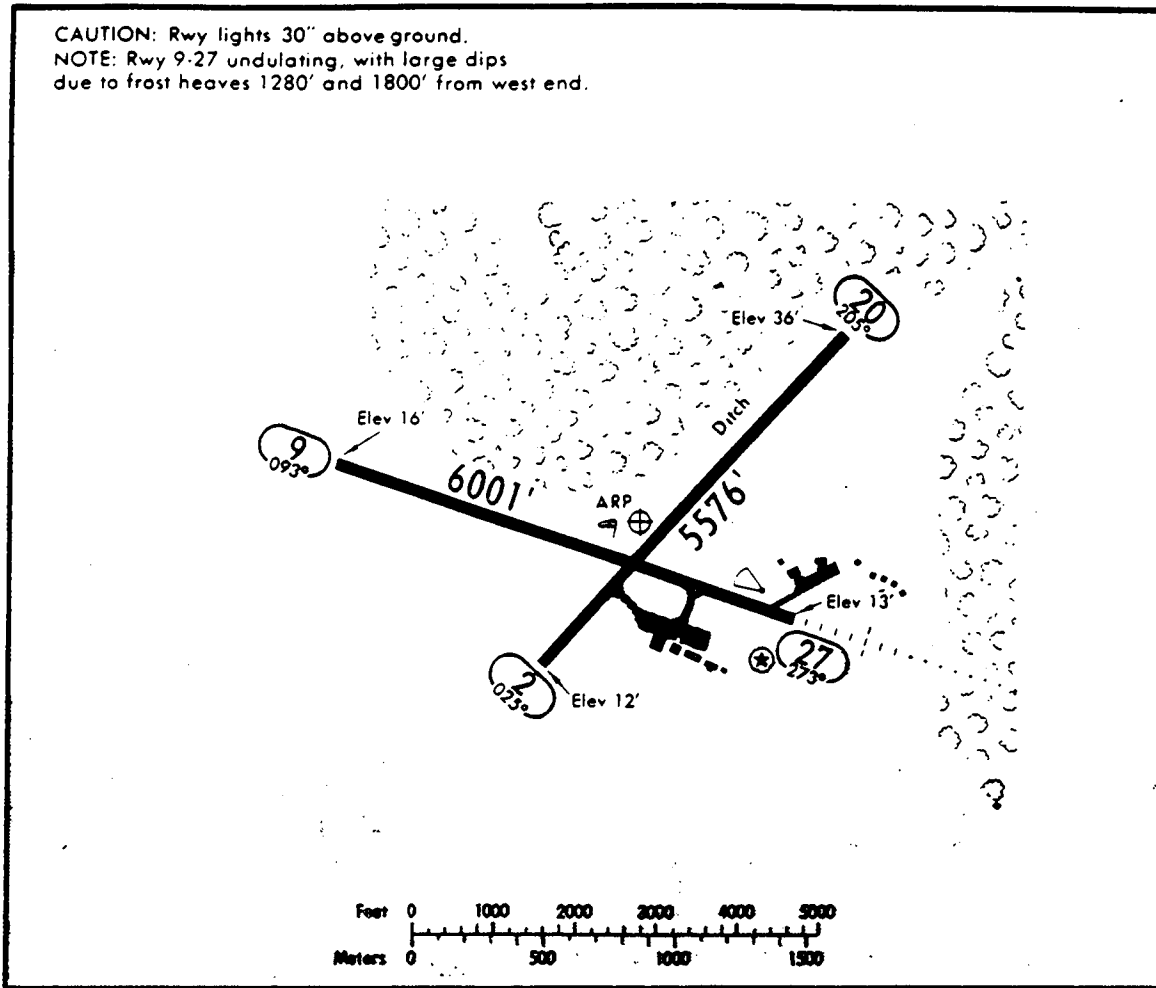
NEW GENERATION

		<u>System Elements</u>	<u>QTY REQ'D</u>
01L	<u>347AD</u>		
CNA	TD	Basic	1
CNA	MP	Sensor Packages	2
CNAB	RO	RLIM	-
		Displays	
		ATCT	2
		TRACON	4
		NWS	1
		Other	-
		Total Displays	7

FY 86	REPLACE	R/W 01L
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NOME (OME)

AAL

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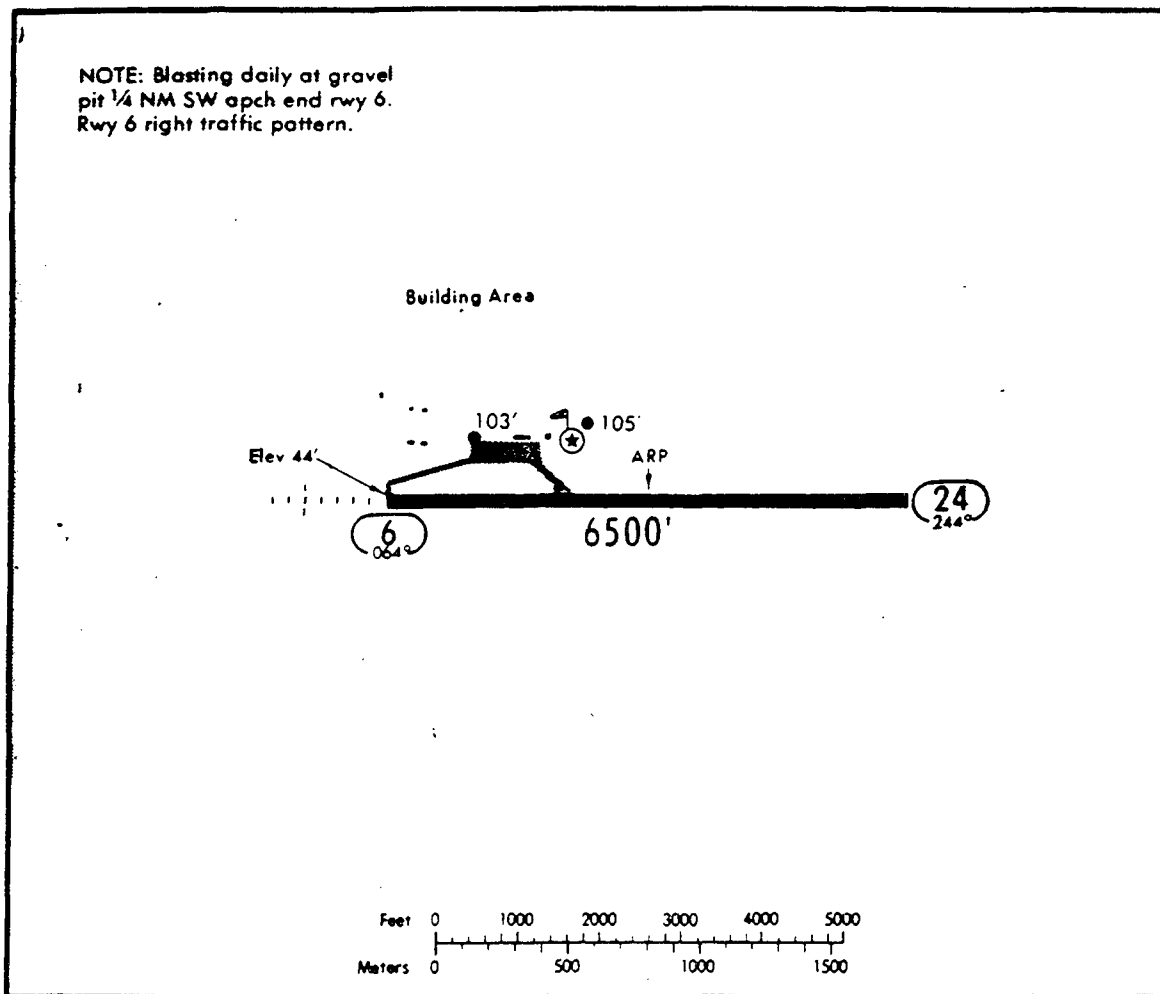
27 347AD
OME TD

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	-
TRACON	-
NWS	1
Other	-
FSS	1
Total Displays	2

FY 86	REPLACE	R/W 27
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BARROW (BRW)

AAL



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EXISTING

NEW GENERATION

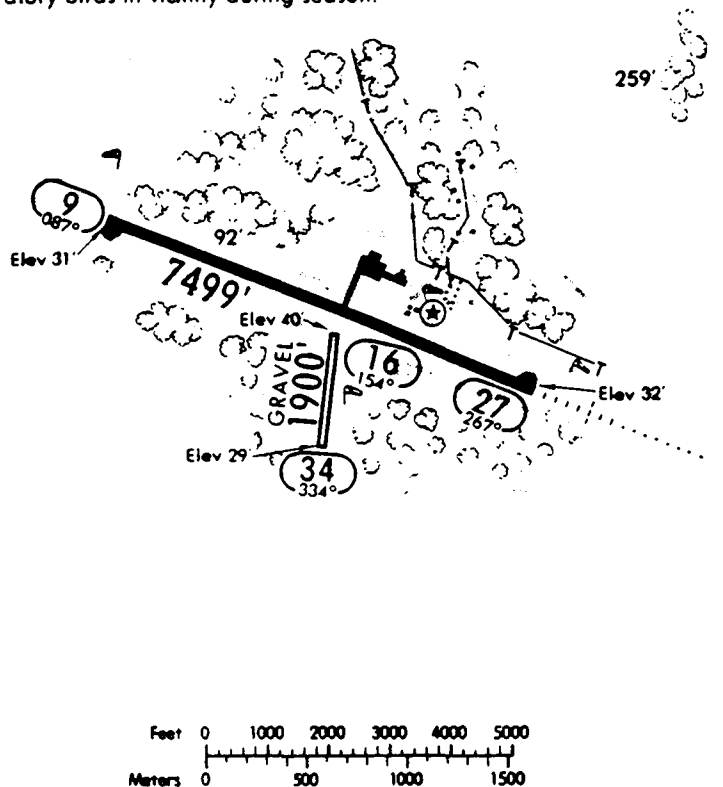
		<u>System Elements</u>	<u>QTY REQ'D</u>
06	<u>347AE</u>		
BRW	TD	Basic	1
		Sensor Packages	-
		RLIM	-
		Displays	
		ATCT	-
		TRACON	-
		NWS	1
		Other	-
		FSS	1
		Total Displays	2

FY 93	REPLACE	R/W 06
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CORDOVA (CDV)

AAL

NOTE: Closed to unscheduled Air Carrier operations of acft with seating capacity over 30 passengers except with prior approval requested in writing to airport manager 24 hours in advance. Erratic winds. Moose occasionally on or near rwys. Migratory birds in vicinity during season.



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EXISTINGNEW GENERATION09 347AG

CDV TD

System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	-
TRACON	-
NWS	-
Other	-
FSS	1

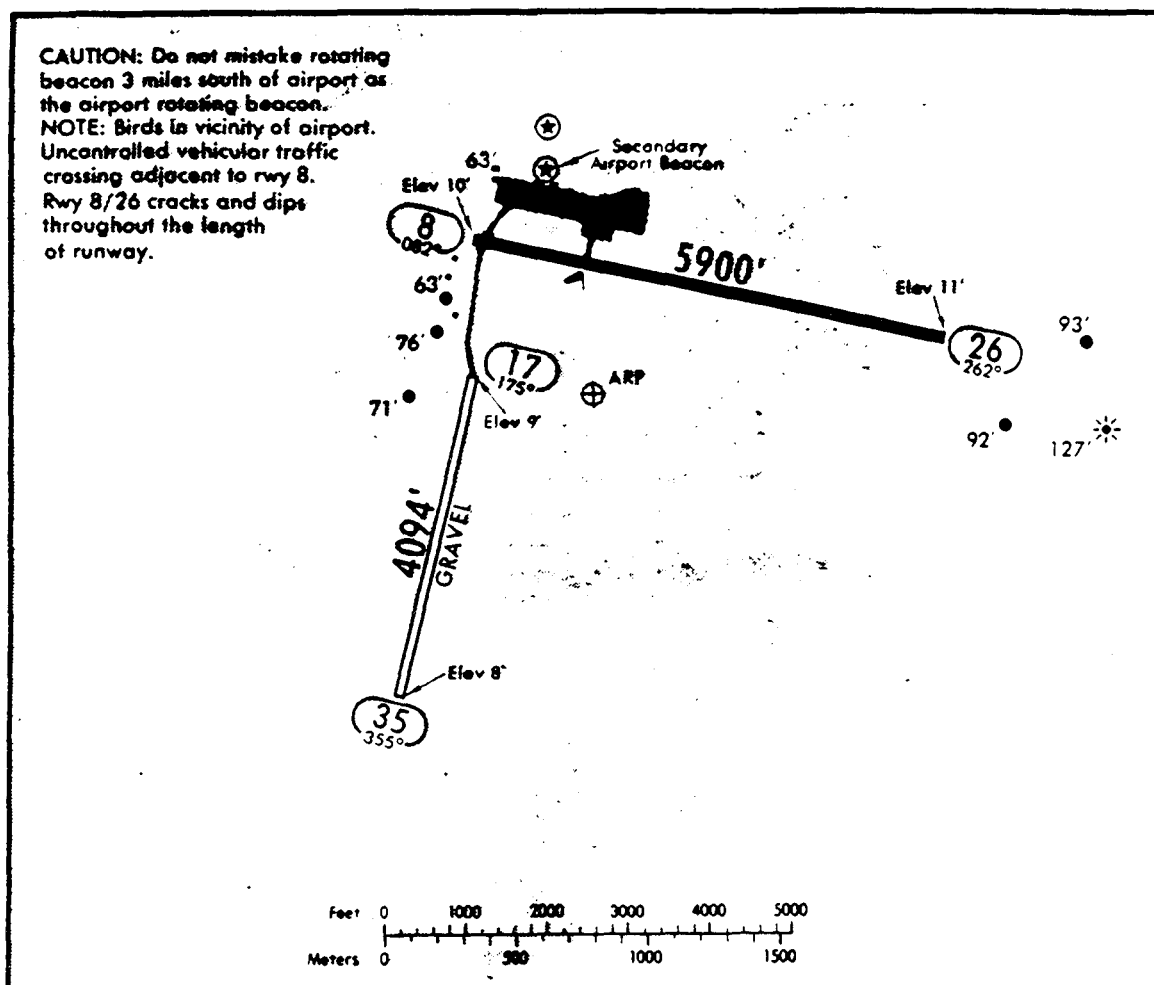
Total Displays	1
----------------	---

FY 93	CONVERT	R/W 09
-------	---------	--------

8/10/88

KOTZEBUE (OTZ)

AAL



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EXISTING

NEW GENERATION

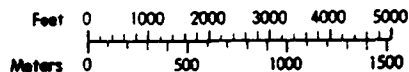
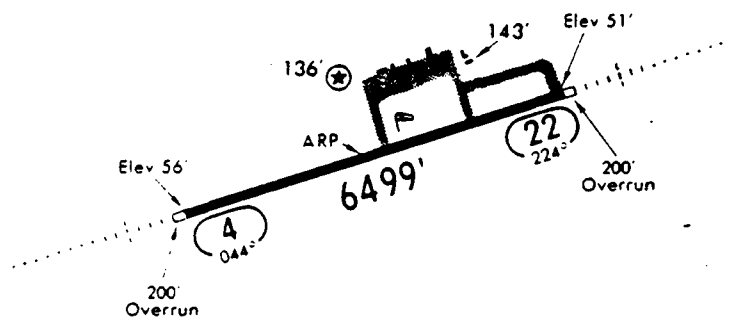
08	<u>347AE</u>	<u>System Elements</u>	<u>QTY REQ'D</u>
OTZ	TD	Basic	1
		Sensor Packages	-
		RLIM	-
		Displays	
		ATCT	-
		TRACON	-
		NWS	1
		Other	-
		FSS	1
		Total Displays	2

FY 93	REPLACE	R/W 08
-------	---------	--------

DEADHORSE (SCC)

AAL

NOTE: Caribou occasionally on runway.
Rwy 4 right traffic pattern.



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EXISTINGNEW GENERATION04 347AE

SCC TD

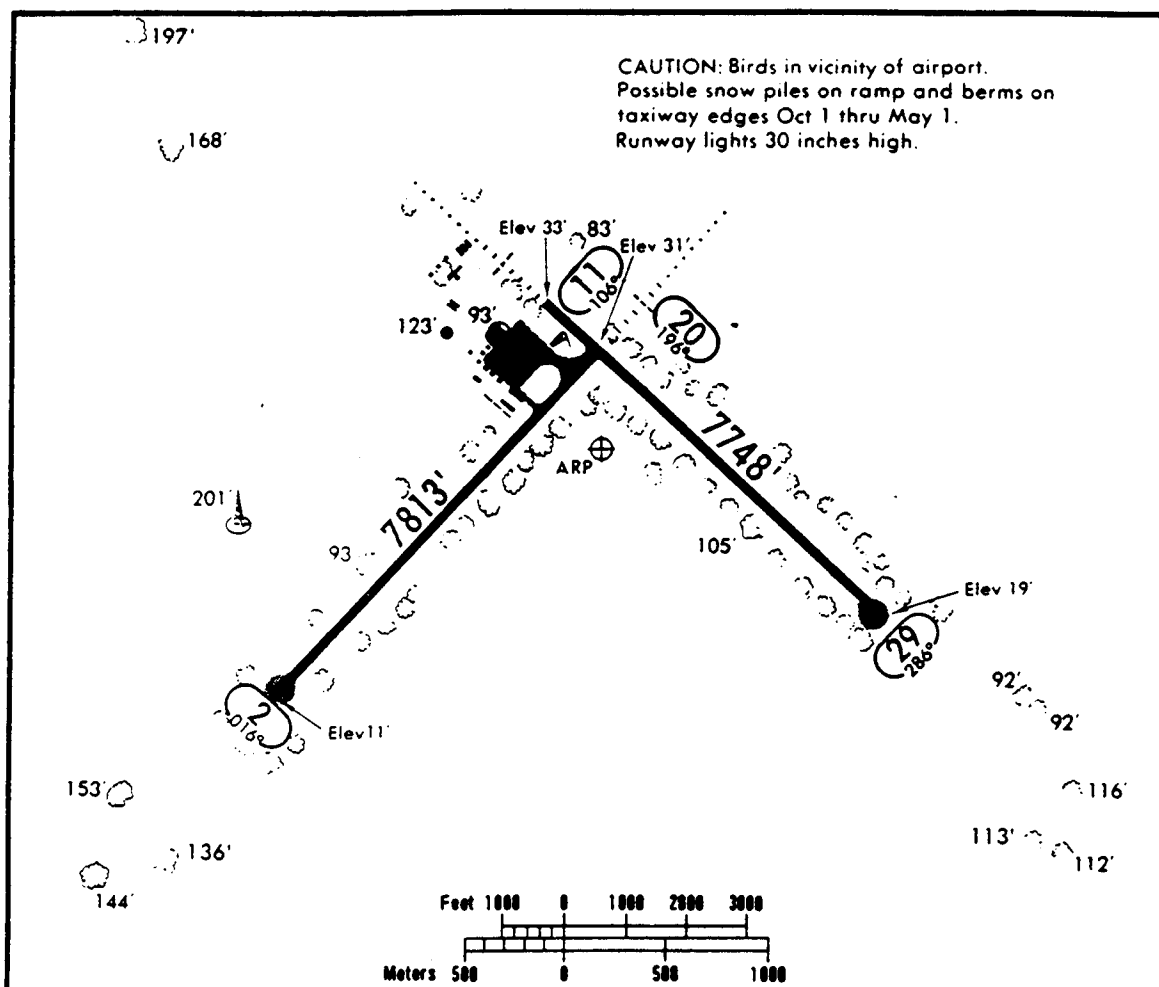
System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	-
TRACON	-
NWS	-
Other	-
FSS	1
Total Displays	1

FY 93	REPLACE	R/W 04
-------	---------	--------

YAKUTAT (YAK)

AAL



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EXISTING

NEW GENERATION

11 347AE

YAK TD

System Elements

QTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	-
TRACON	-
NWS	1
Other	-
FSS	1

Total Displays 2

FY 93	REPLACE	R/W 11
-------	---------	--------

APPENDIX 2. ACE SITE LOCATIONS

AIRPORT LOCATION (LOCATION IDENTIFIER)

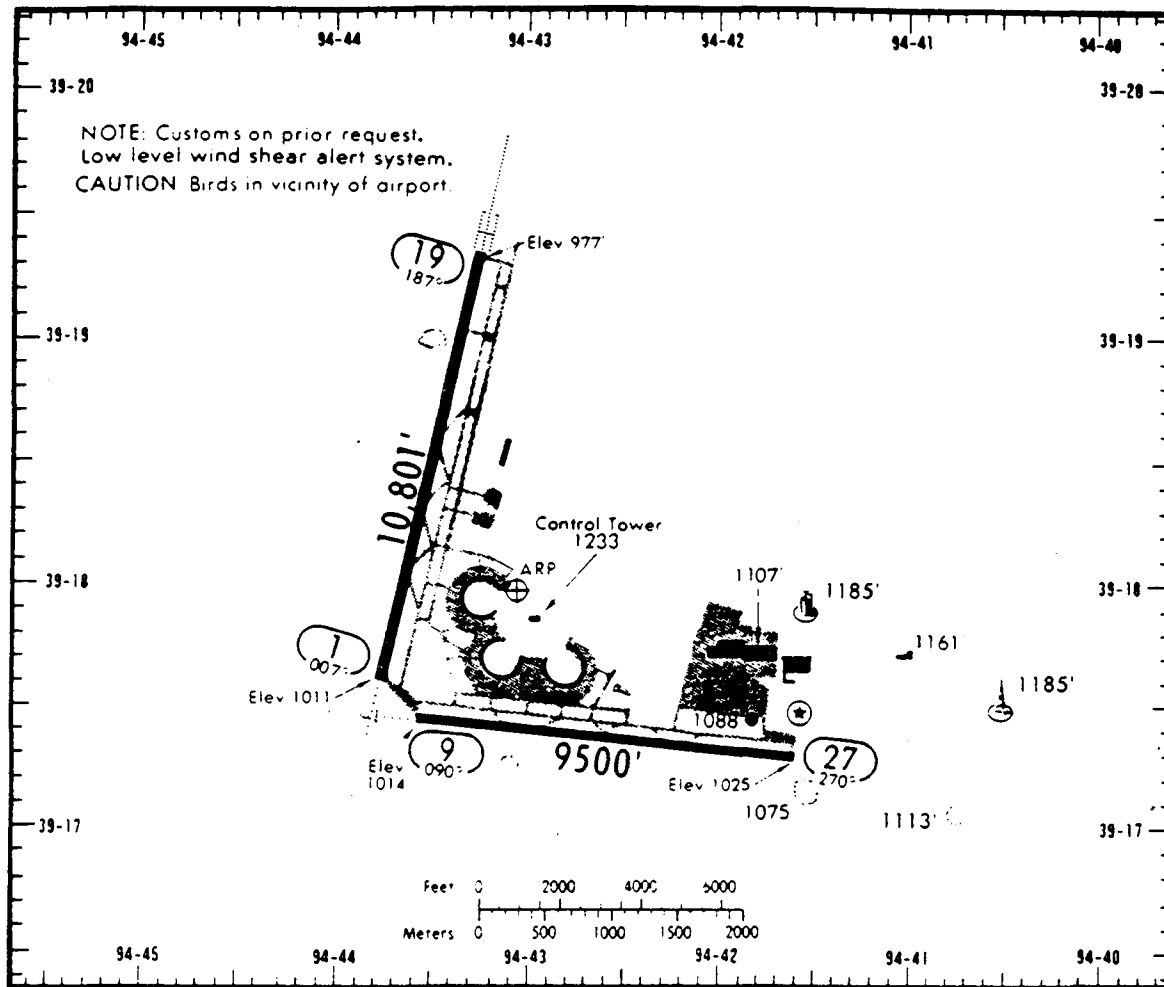
RESERVED FOR JEPPESEN
AIRPORT LAYOUT

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<u>EXISTING</u>		<u>NEW GENERATION</u>	
Runway - RVR Model No.		Runway Visibility System (1)	1
RVR Location IDENT.	TD, MP, RO (AS APPLICABLE)	Sensor Package (2)	5
		RLIM	1
OTHER RVRs (AS APPLICABLE)		Displays	
		ATCT (a)	
		TRACON (b)	
		NWS (3) (c)	
		Other (d)	
		Total Displays (a + b + c + d)	
(1) Basic RVR System, Only One per Airport Location			
(2) Number of Existing RVR Sensors (minus 1)			
(3) Graphic Recorder Quantities			

KANSAS CITY MO (MCI)

ACE



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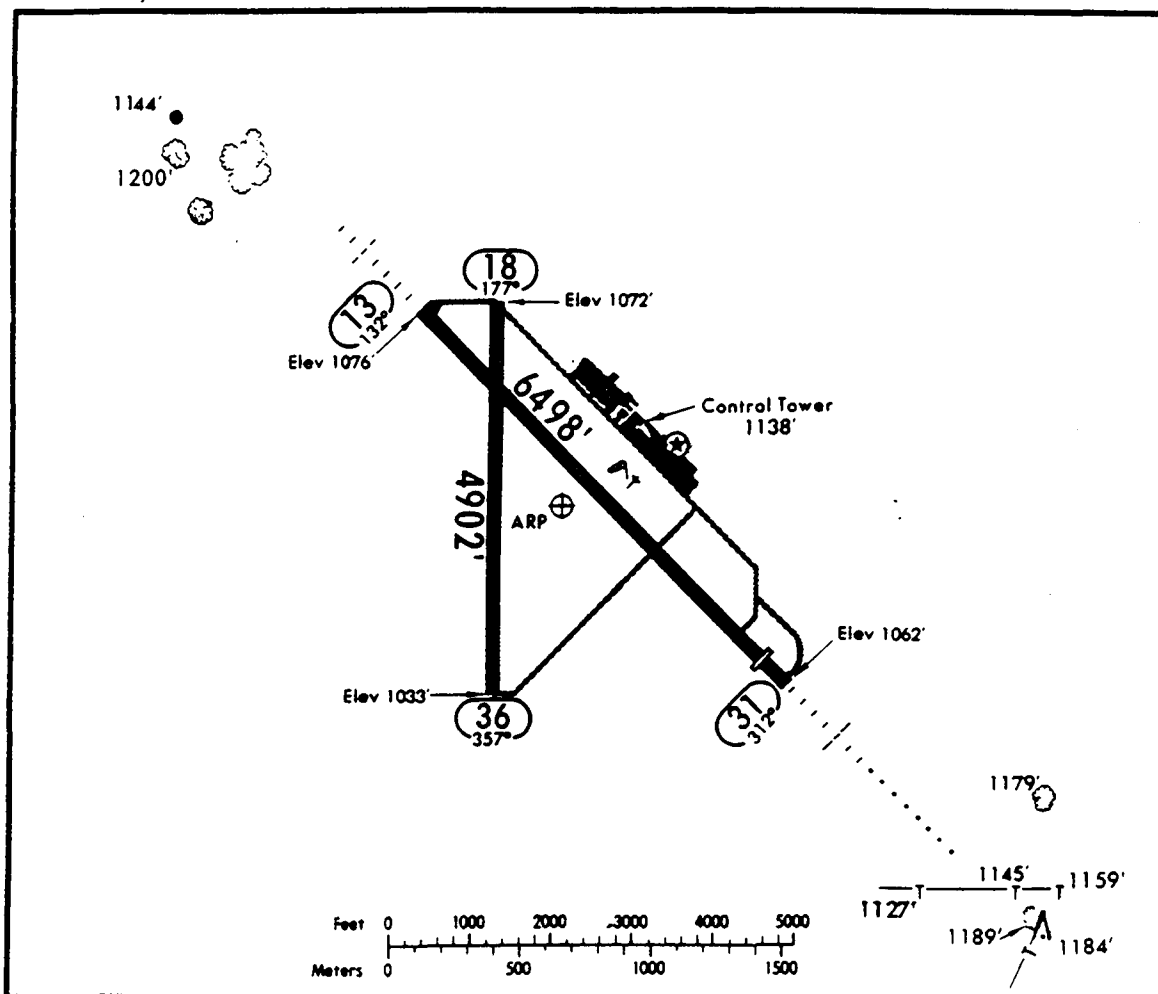
EXISTINGNEW GENERATION

19	<u>347AD</u>	<u>System Elements</u>	<u>QTY REQ'D</u>
PAJ	TD	Basic	1
PAJA	MP	Sensor Packages	3
PAJB	RO	RLIM	1
09	347AD	Displays	
		ATCT	1
		TRACON	5
		NWS	-
		Other	-
RNI	TD	Total Displays	6

FY 84	CAT IIIB	R/W 19
FY 86	REPLACE	R/W 19, 09

DUBUQUE IA (DBQ)

ACE



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EXISTING

NEW GENERATION

NONE

System Elements

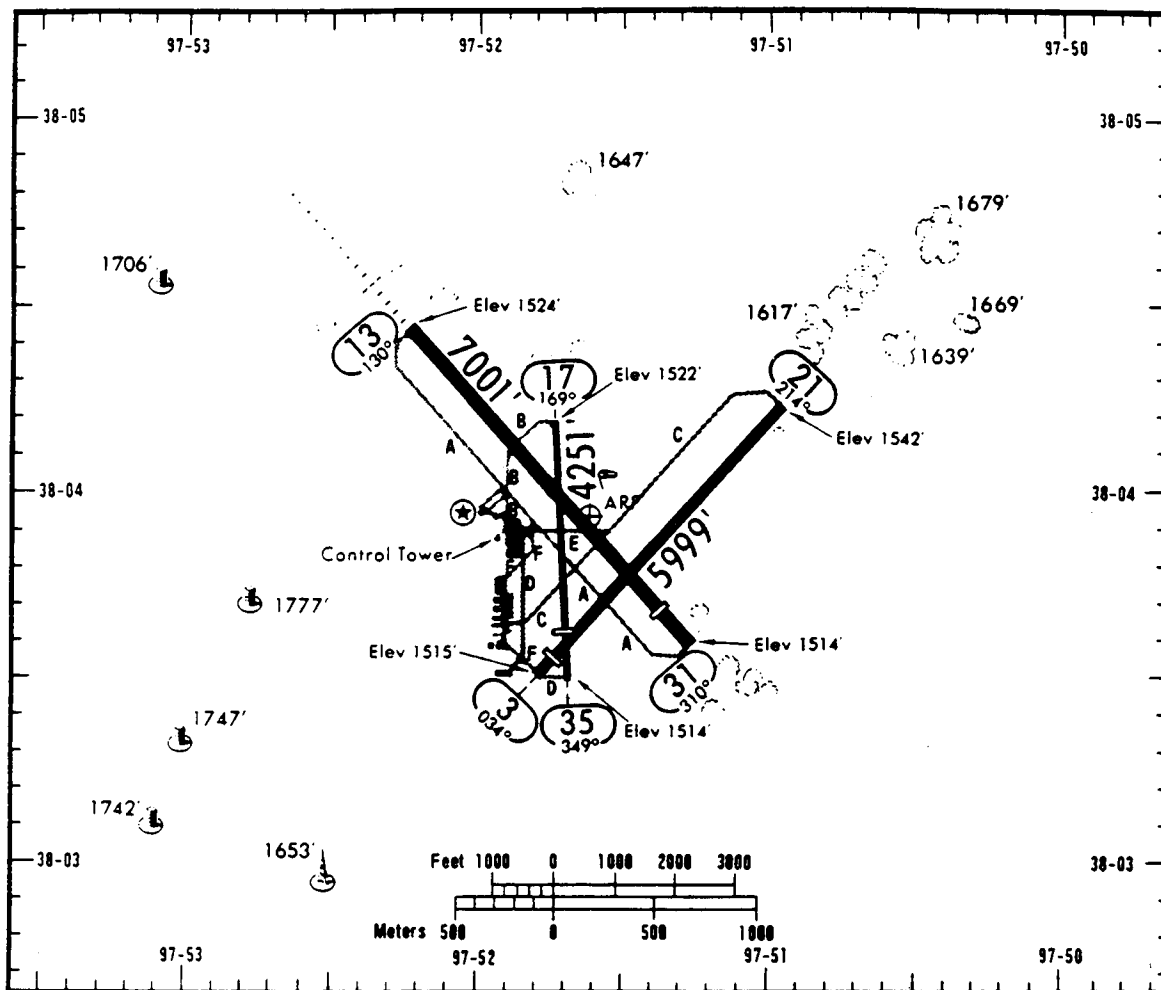
QTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	3
TRACON	-
NWS	-
Other	-
Total Displays	3

FY 85	ESTABLISH	R/W 31
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HUTCHINSON KS (HUT)

ACE

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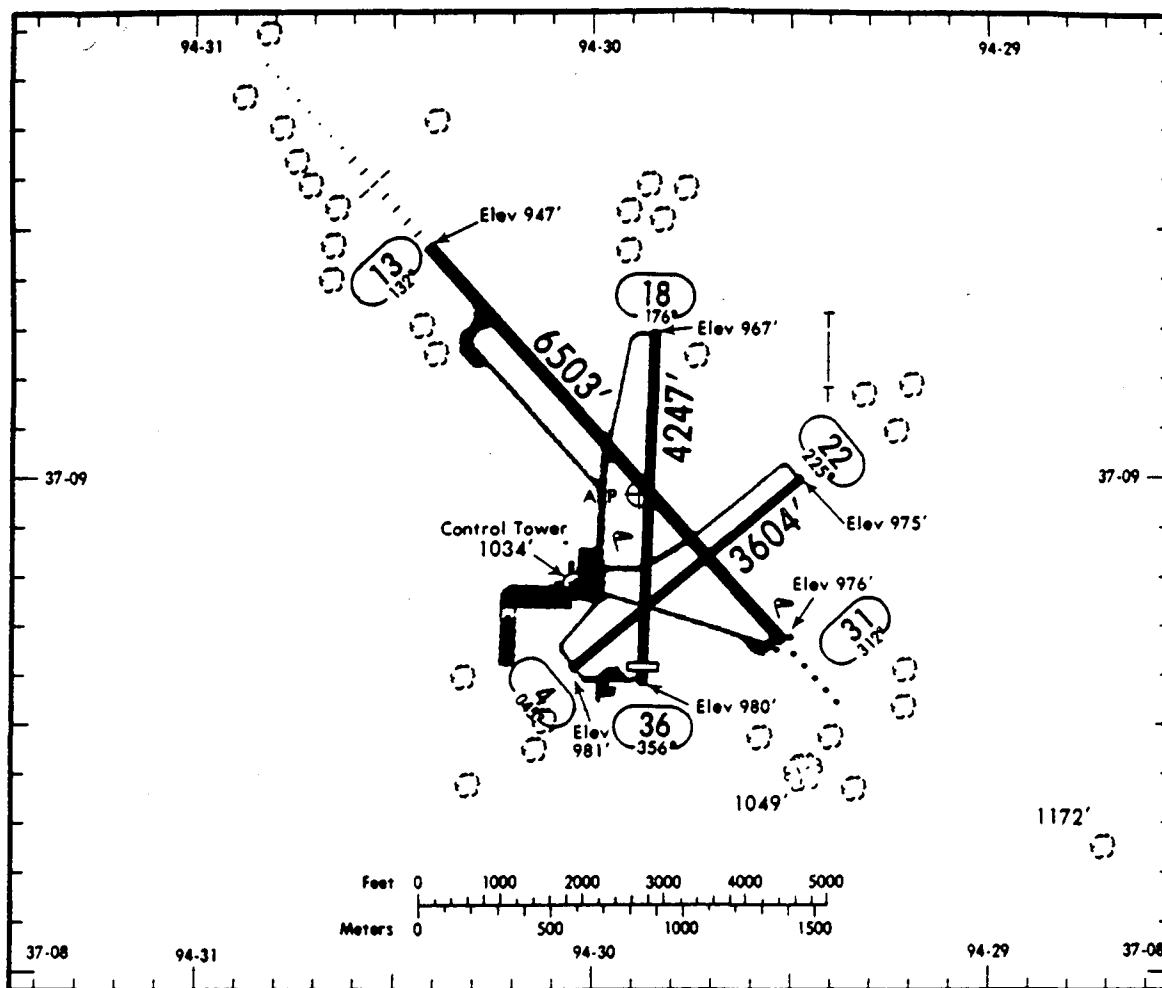
13
HUT 34711
 TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	3	
TRACON	-	
NWS	-	
Other	-	
Total Displays		3

FY 85	CONVERT RVV	R/W13
-------	-------------	-------

JOPLIN MO (JLN)

ACE



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EXISTING

NEW GENERATION

13
JLN

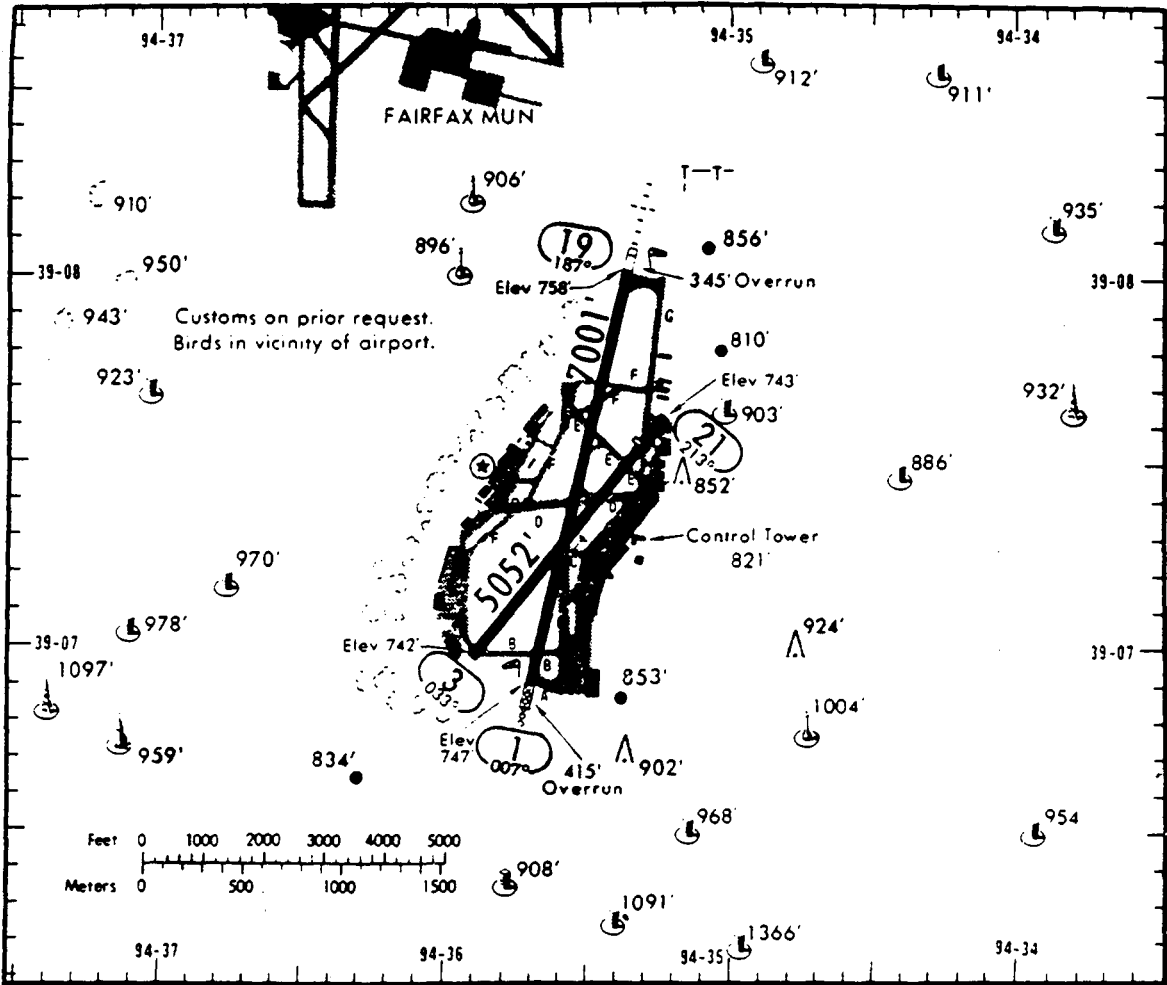
34711
TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	3	
TRACON	-	
NWS	-	
Other	-	
Total Displays		3

FY 85	CONVERT RVV	R/W 13
-------	-------------	--------

KANSAS CITY MO (MKC)

ACE



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EXISTING

NEW GENERATION

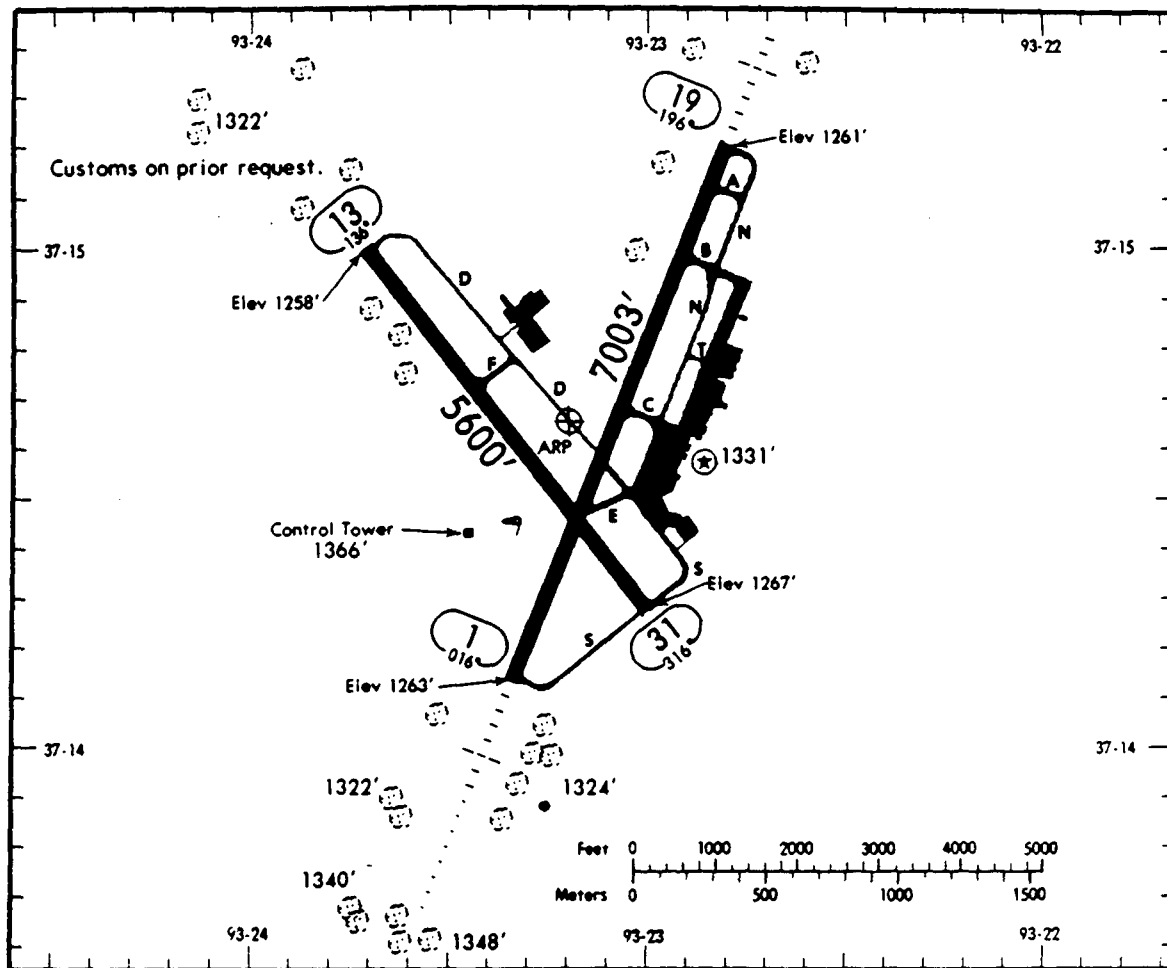
19 34711
MKC TD

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	3
TRACON	-
NWS	-
Other	-
Total Displays	3

FY 85	CONVERT RVV	R/W 19
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SPRINGFIELD MO (SGF)

ACE



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EXISTING

NEW GENERATION

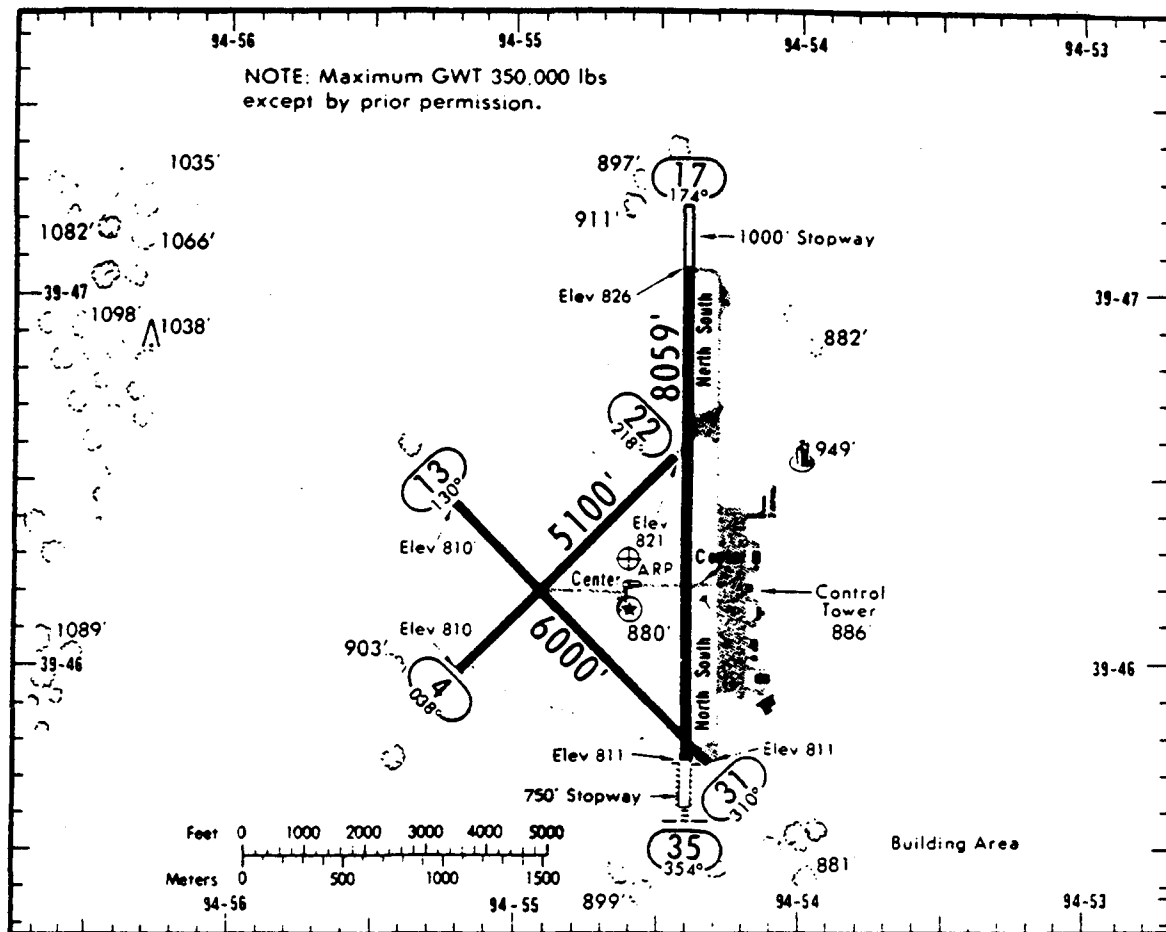
01 34711
SGF TD

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	3
TRACON	-
NWS	-
Other	-
Total Displays	3

FY 85	CONVERT RVV	R/W 01
-------	-------------	--------

ST. JOSEPH MO (STJ)

ACE



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EXISTINGNEW GENERATION35 34711

STJ TD

System ElementsQTY REQ'D

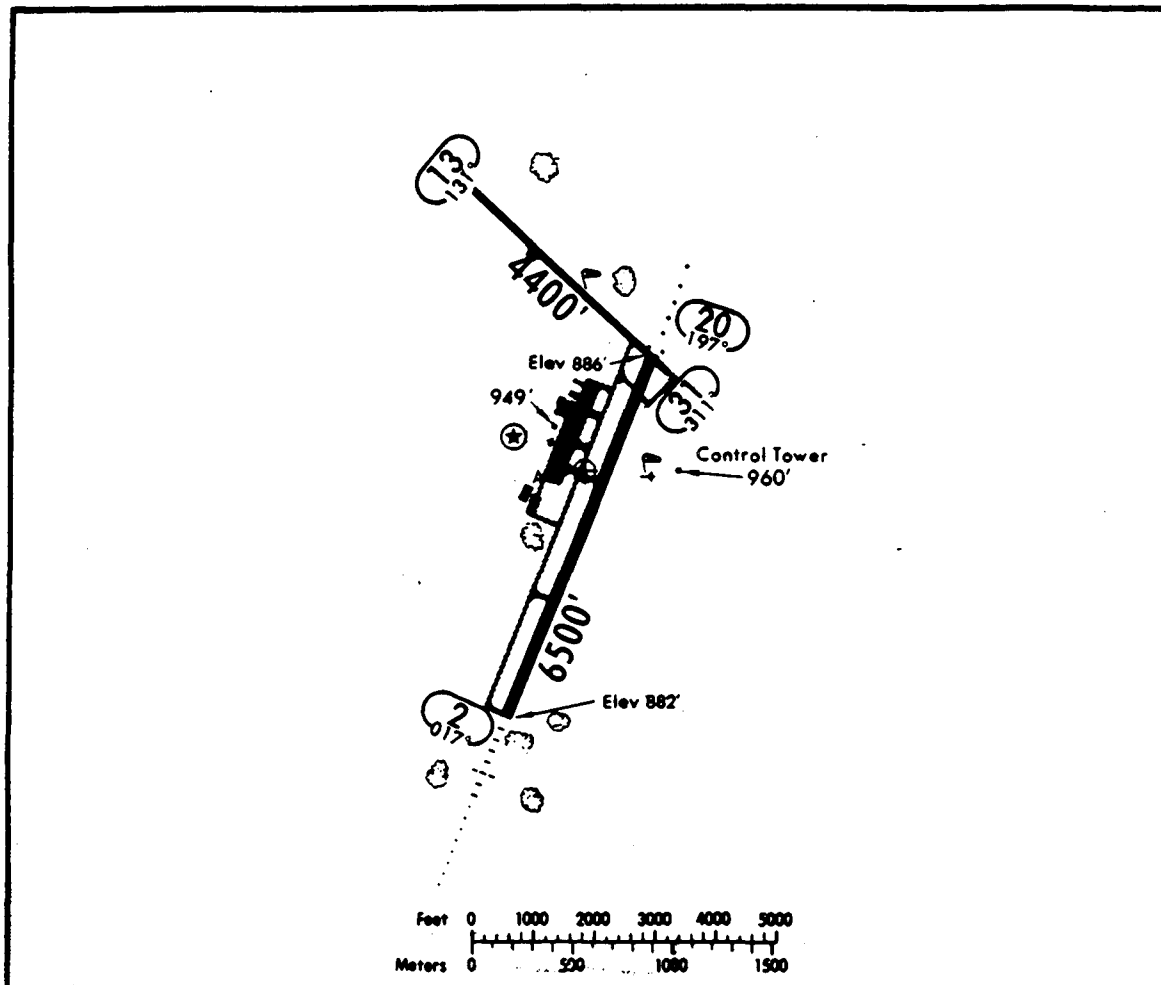
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	3
TRACON	-
NWS	-
Other	-

Total Displays	3
----------------	---

FY 85	CONVERT RVV	R/W 35
-------	-------------	--------

COLUMBIA MO (COU)

ACE



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EXISTING

NEW GENERATION

NONE

System Elements

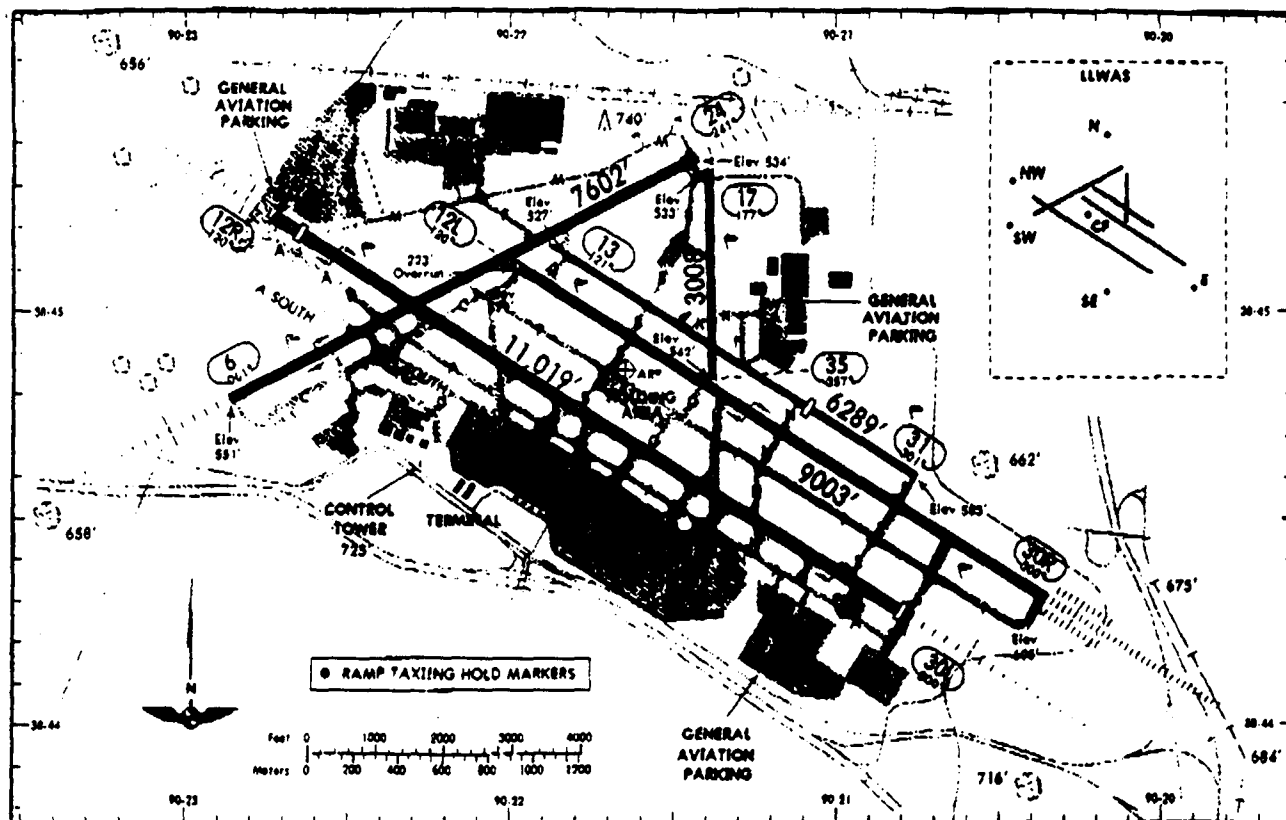
QTY REQ'D

Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	3	
TRACON	-	
NWS	-	
Other	-	
Total Displays		3

FY 86	ESTABLISH	R/W 02
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ST. LOUIS MO (STL)

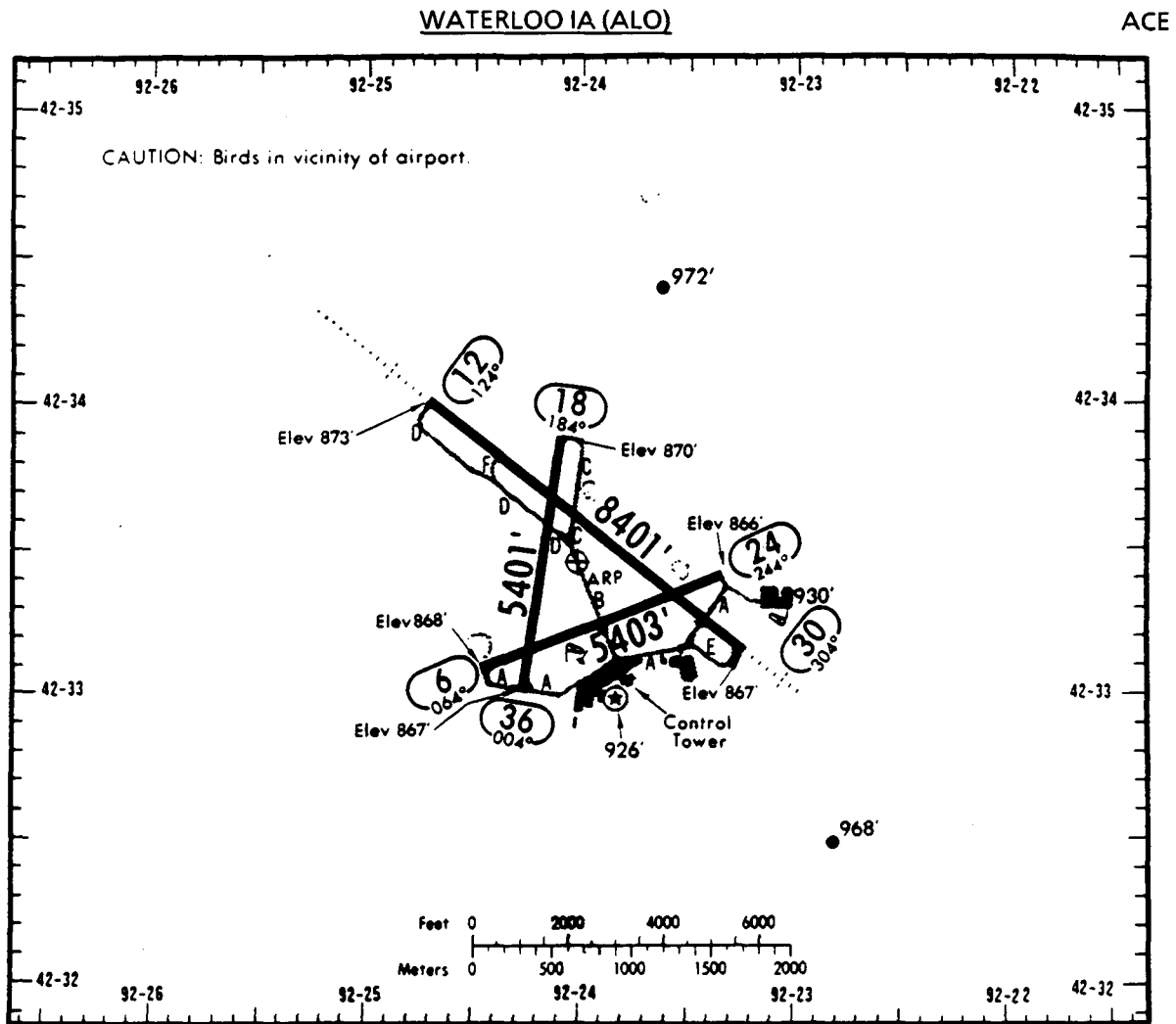
ACE

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30L	<u>347AE</u>
BKY	TD
12R	<u>347AE</u>
LMR	TD
30R	<u>347AE</u>
SJWA	TD
SJWB	MP
SJWC	RO
24	<u>347AE</u>
STL	TD

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	5
RLIM	2
Displays	
ATCT	3
TRACON	2
NWS	-
Other	-
Total Displays	5

FY 93	REPLACE	30L, 30R, 24
-------	---------	--------------



EXISTING

NEW GENERATION

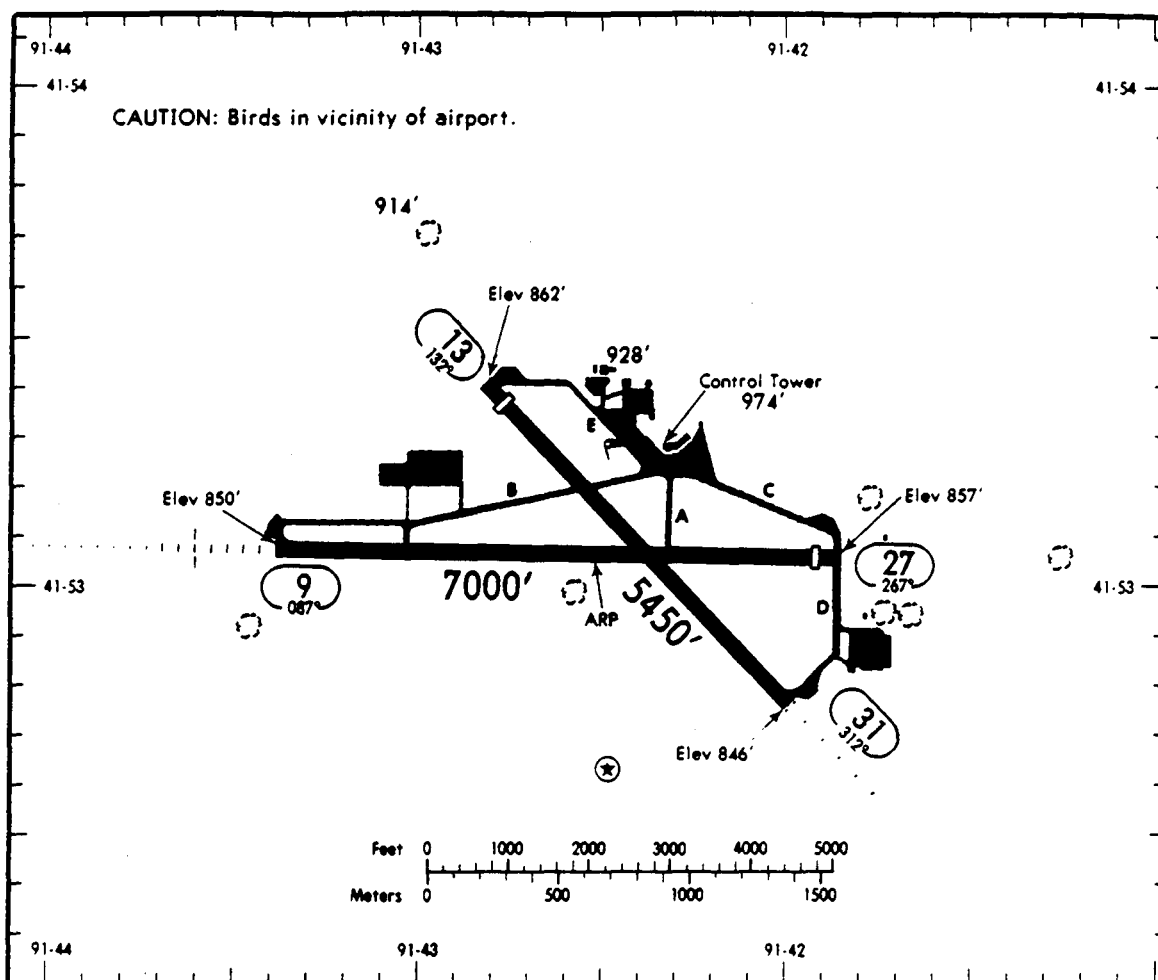
12 347AE
ALO TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	1	
NWS	-	
Other	-	
Total Displays		3

FY 93	REPLACE	R/W 12
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CEDAR RAPIDS IA (CID)

ACE



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EXISTINGNEW GENERATION09 347AE

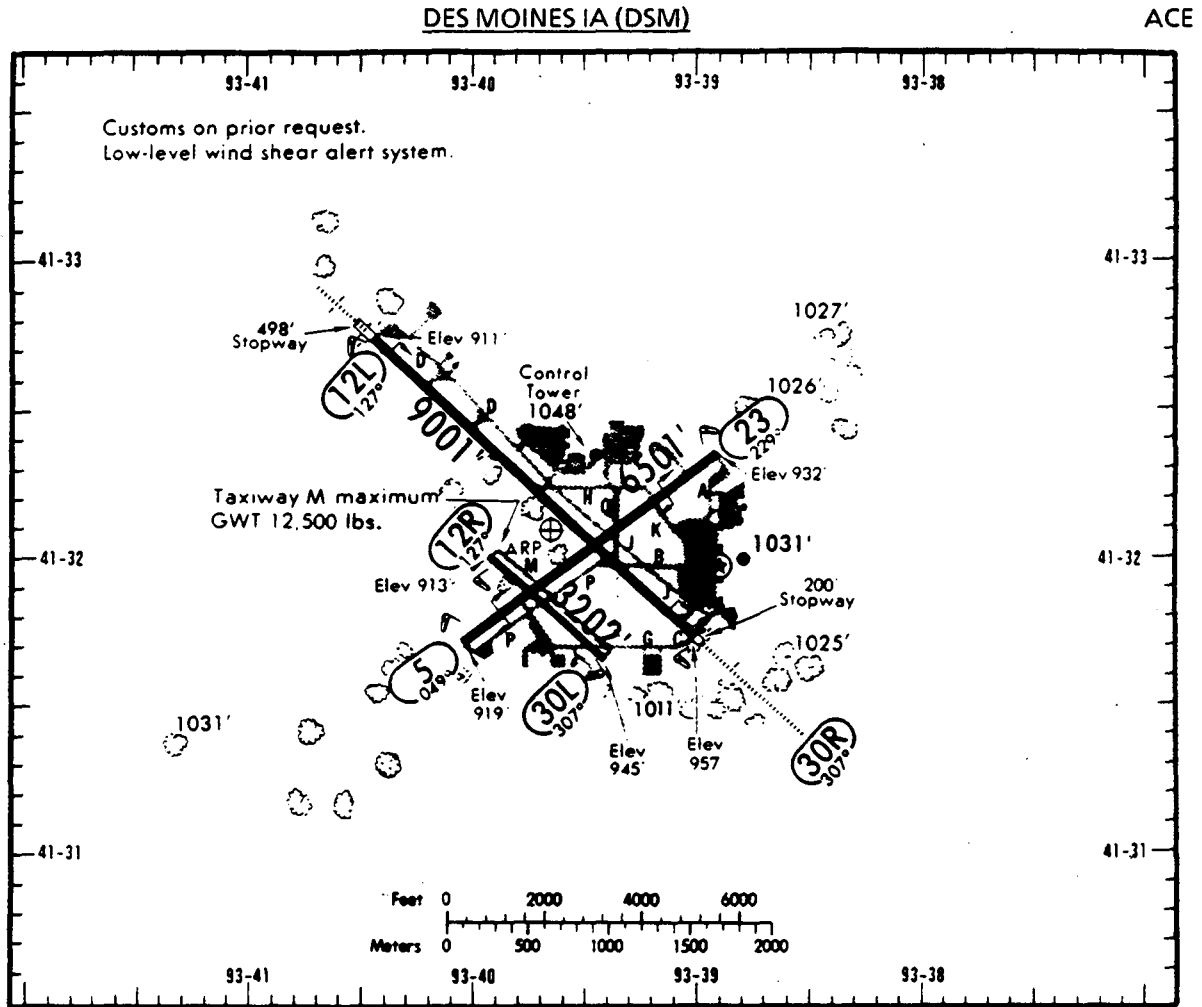
CID TD

System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	1
NWS	-
Other	

Total Displays	3
----------------	---

FY 93	REPLACE	R/W 08
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EXISTING

NEW GENERATION

30R 347AE

DSM TD

12L 347AE

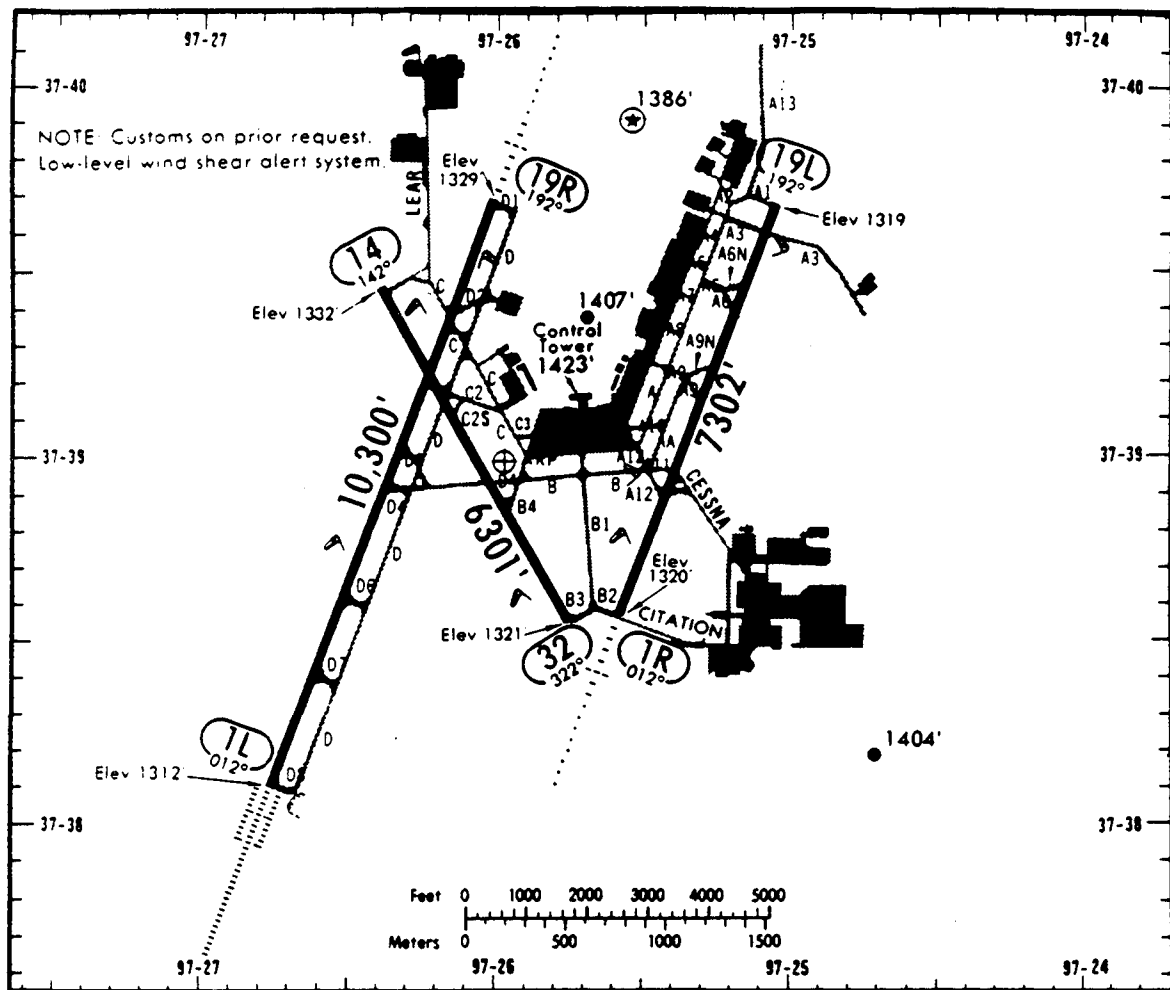
VGU TD

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	1
RLIM	-
Displays	
ATCT	2
TRACON	2
NWS	-
Other	-
Total Displays	4

FY 93	REPLACE	R/W 30R
FY 93	REPLACE	R/W 12L

WICHITA KS (ICT)

ACE

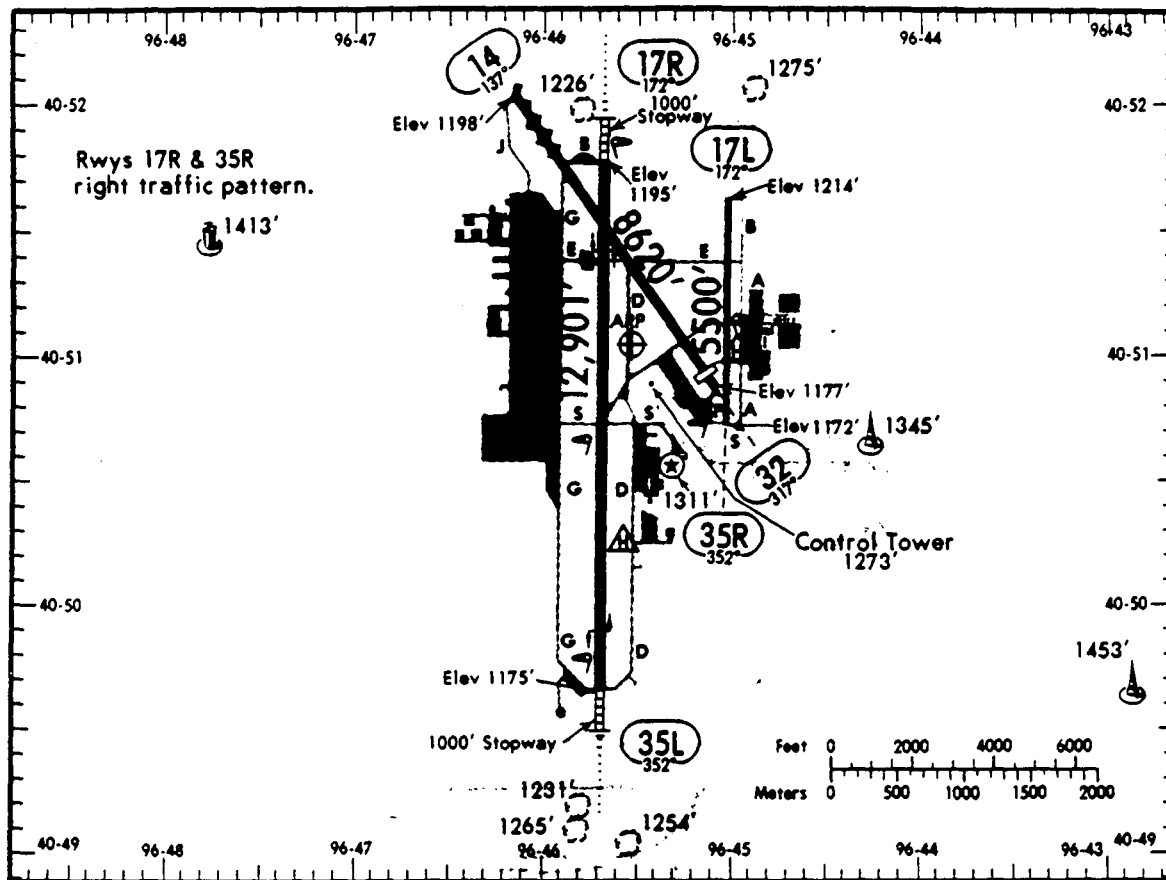
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		System Elements	QTY REQ'D
01R	<u>347AE</u>		
ICT	TD	Basic	1
		Sensor Packages	3
01L	<u>347AE</u>	RLIM	1
		Displays	
TWI	TD	ATCT	4
TWIA	MP	TRACON	2
TWIB	RO	NWS	-
		Other	-
		Total Displays	6

FY 93	REPLACE	R/W 01R
FY 93	REPLACE	R/W 01L

LINCOLN NE (LNK)

ACE



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EXISTING

NEW GENERATION

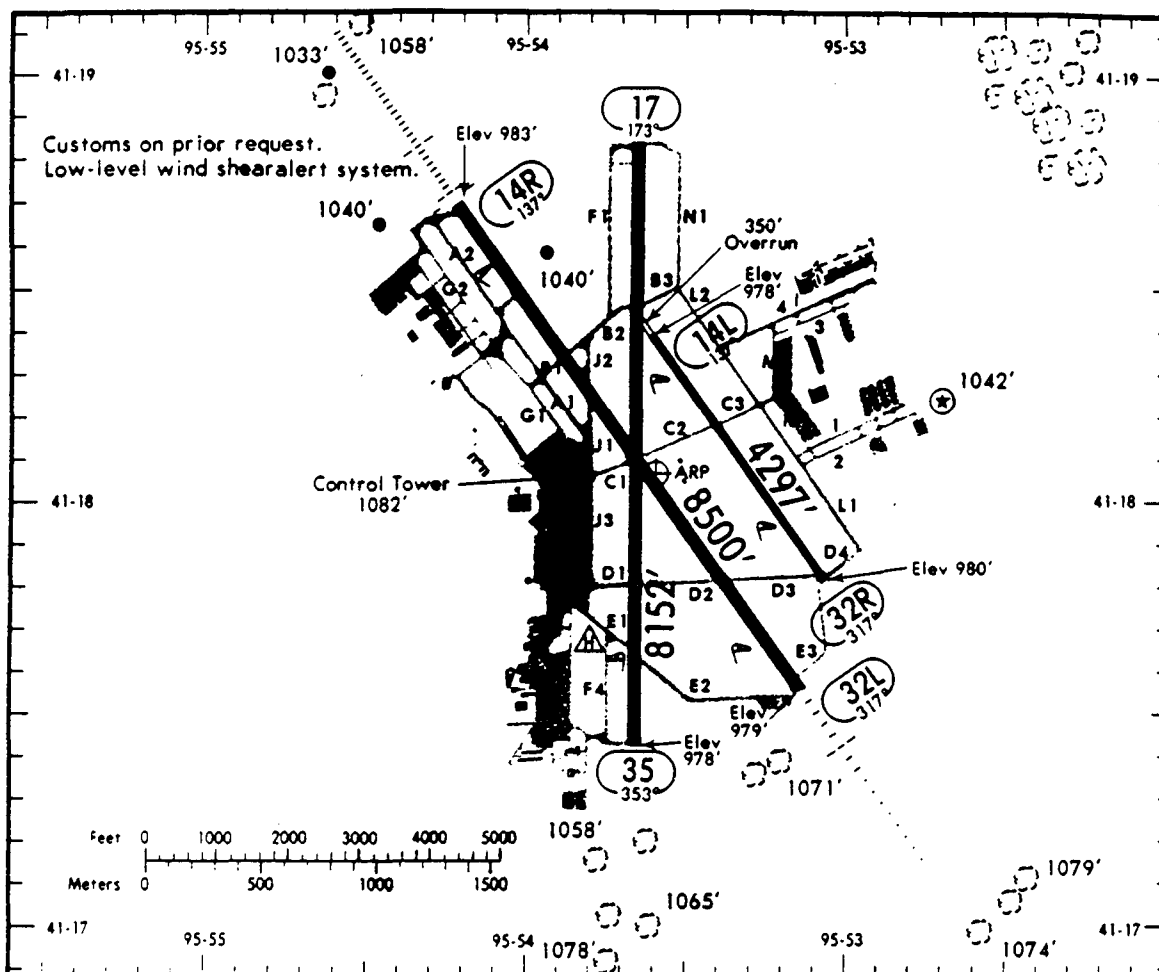
35L 347AE
LNK TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	-	
NWS	-	
Other	-	
Total Displays		1

FY 93	REPLACE	R/W 35L
-------	---------	---------

OMAHA NE (OMA)

ACE

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OMA	TD
OMAA	MP
OMAB	RO

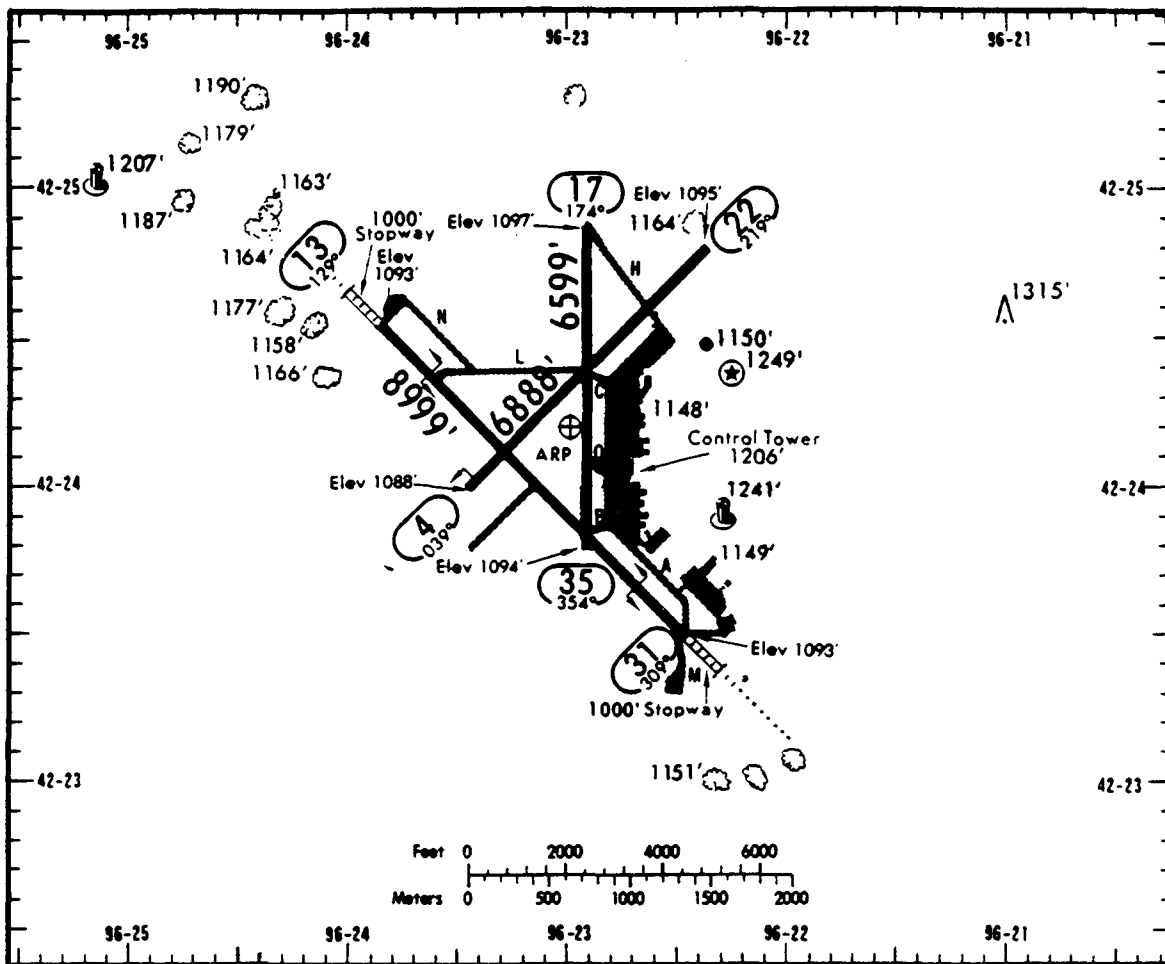
System ElementsQTY REQ'D

Basic	1
Sensor Packages	2
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	-
Other	-
Total Displays	2

FY 93	REPLACE	R/W 14R
-------	---------	---------

SIOUX CITY IA (SUX)

ACE



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EXISTING

NEW GENERATION

		<u>System Elements</u>	<u>QTY REQ'D</u>
31	<u>347AE</u>	Basic	1
SUX	TD	Sensor Packages	-
		RLIM	-
		Displays	
		ATCT	1
		TRACON	-
		NWS	-
		Other	-
		Total Displays	1

FY 93	REPLACE	R/W 31
-------	---------	--------

APPENDIX 3. AEA SITE LOCATIONS

REGION

AIRPORT LOCATION (LOCATION IDENTIFIER)

RESERVED FOR JEPPESEN
AIRPORT LAYOUT

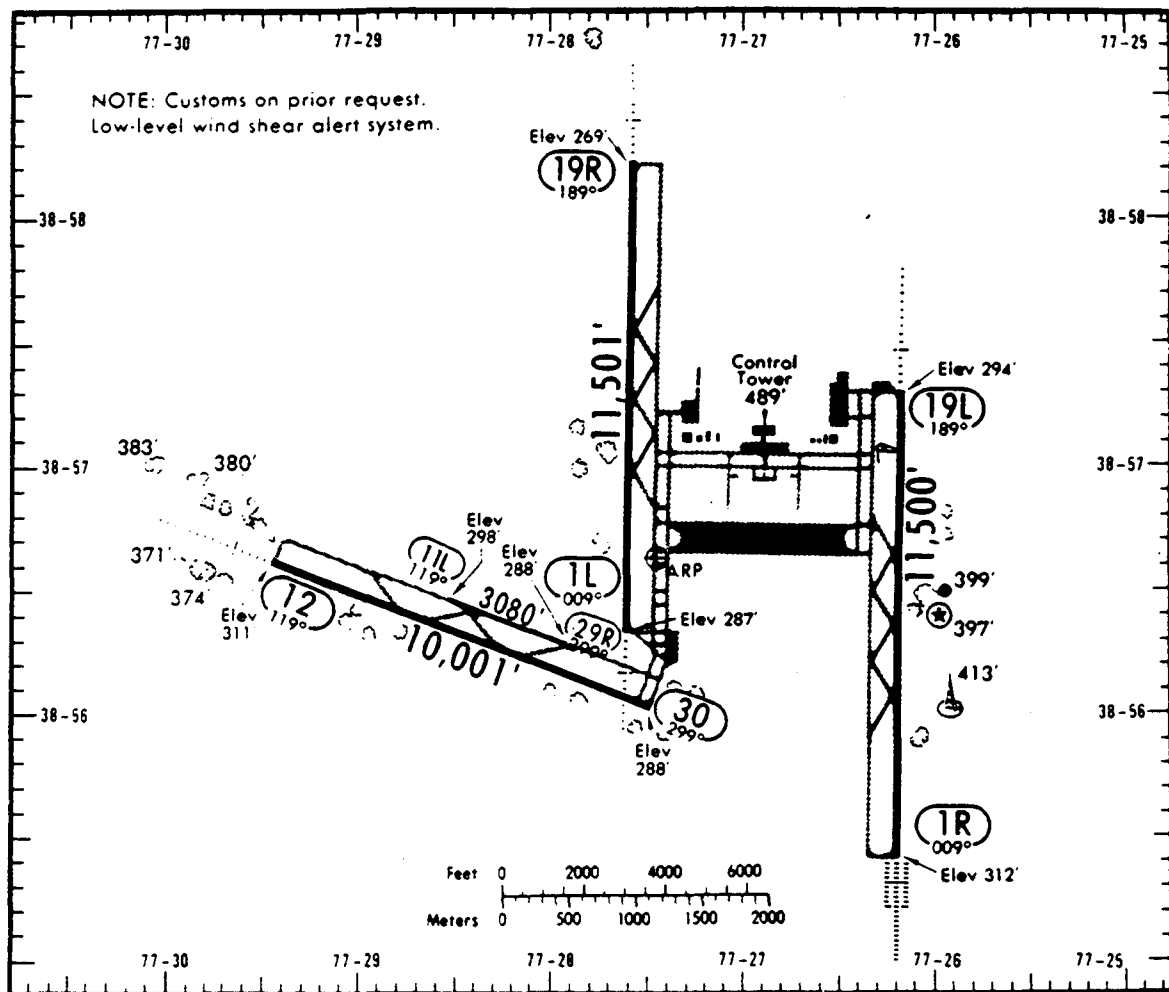
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<u>EXISTING</u>		<u>NEW GENERATION</u>	
Runway - RVR Model No.		Runway Visibility System (1)	1
RVR Location	TD, MP, RO	Sensor Package (2)	5
IDENT.	(AS APPLICABLE)	RLIM	1
OTHER RVRs		Displays	
(AS APPLICABLE)		ATCT (a)	
		TRACON (b)	
		NWS (3) (c)	
		Other (d)	
		Total Displays (a + b + c + d)	

- (1) Basic RVR System, Only One per Airport Location
 (2) Number of Existing RVR Sensors (minus 1)
 (3) Graphic Recorder Quantities

CHANTILLY VA (DULLES-IAD)

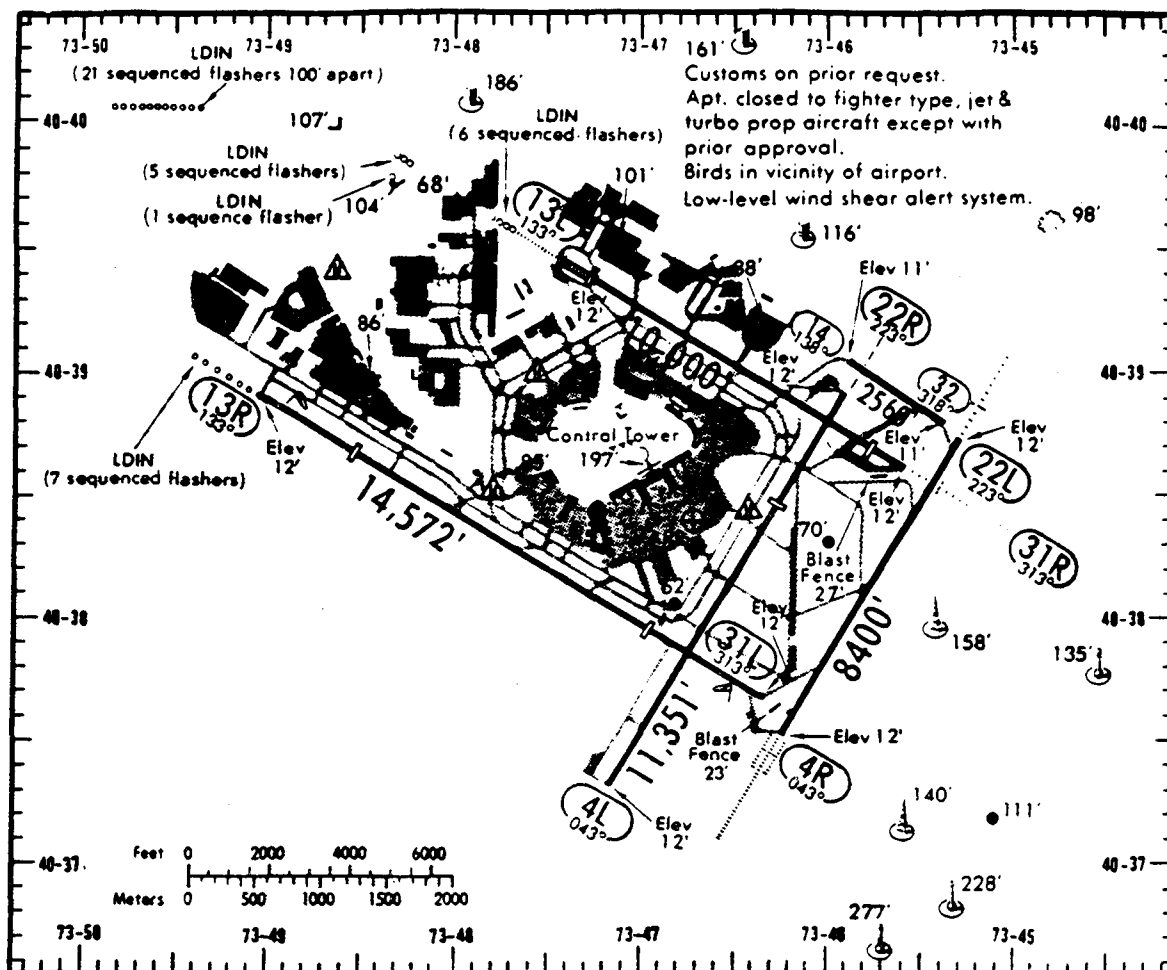
AEA

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		<u>System Elements</u>	<u>QTY REQ'D</u>
19R	<u>347AE</u>	Basic	1
DLX	TD	Sensor Packages	4
01R	<u>347AE</u>	RLIM	2
IAD	TD	Displays	
IADB	RO	ATCT	3
		TRACON	5
		NWS	1
		Other	-
SGC	MP	Total Displays	9

FY 84	CAT IIIb	R/W 01R/19L
FY 86	ESTABLISH	R/W 12,

AEA



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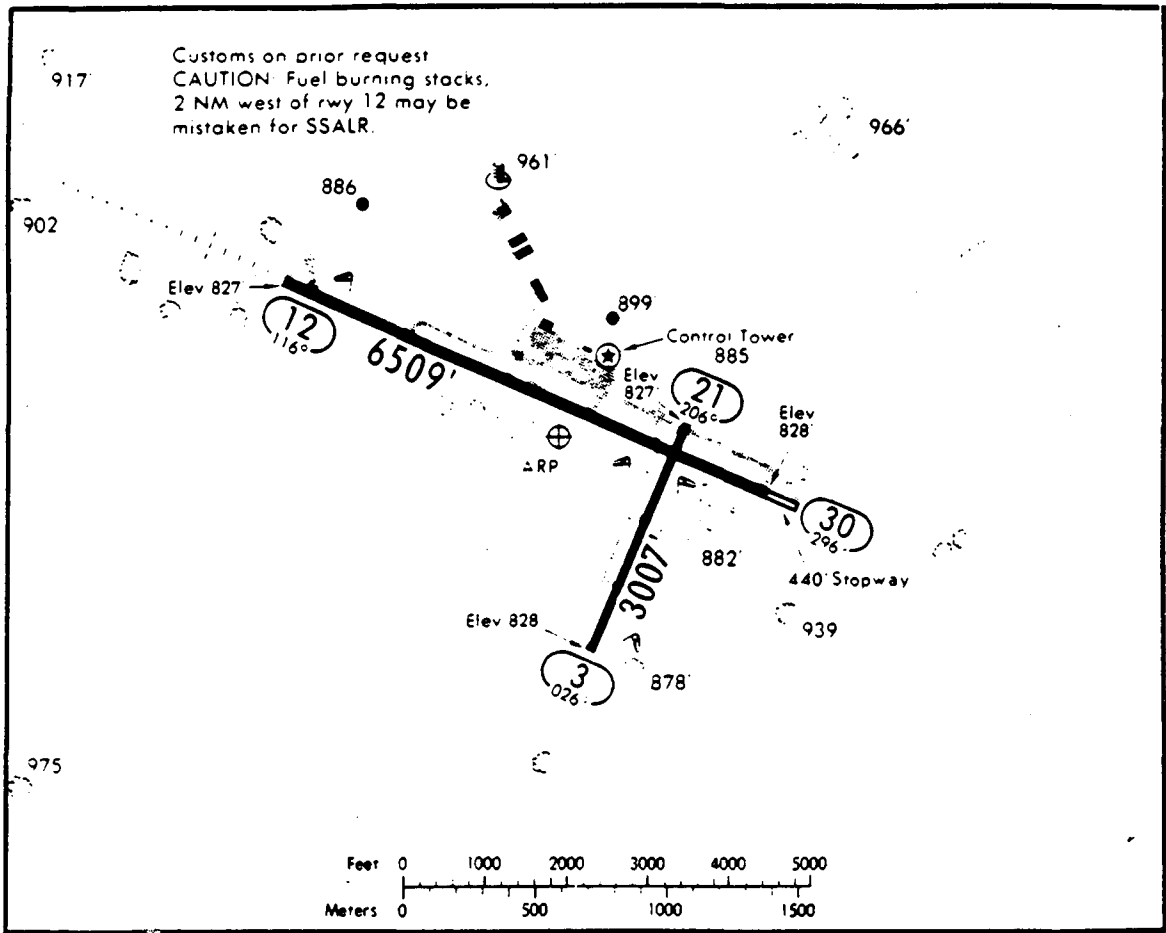
NEW GENERATION

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	8
RLIM	3
Displays	
ATCT	3
TRACON	—
NWS	1
Other	19
Total Displays	23

FY 84	CAT IIIb	R/W 04R
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HUNTINGTON WV (HTS)

AEA



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EXISTING

NEW GENERATION

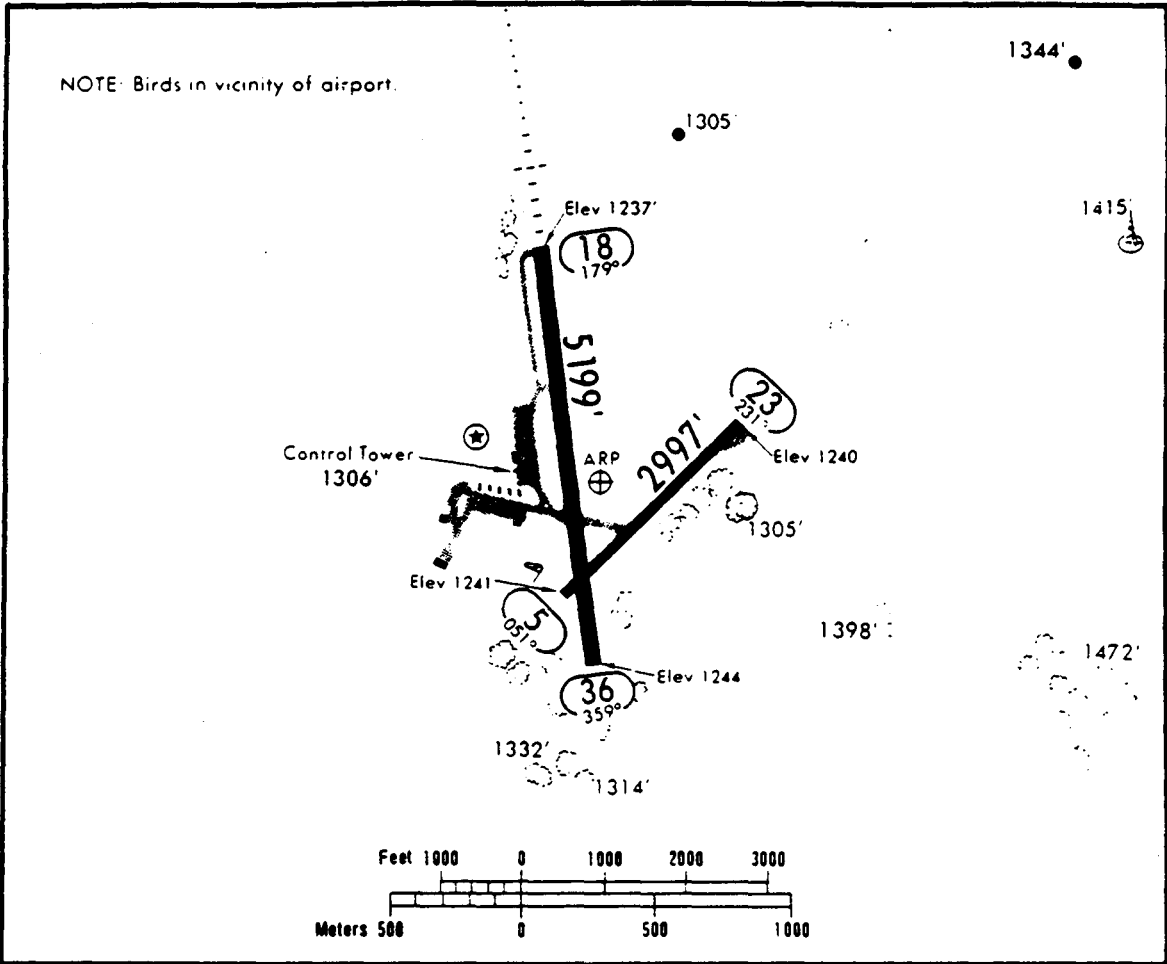
NONE

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 84	ESTABLISH	R/W 12
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MORGANTOWN WV (MGW)

AEA



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EXISTING

NEW GENERATION

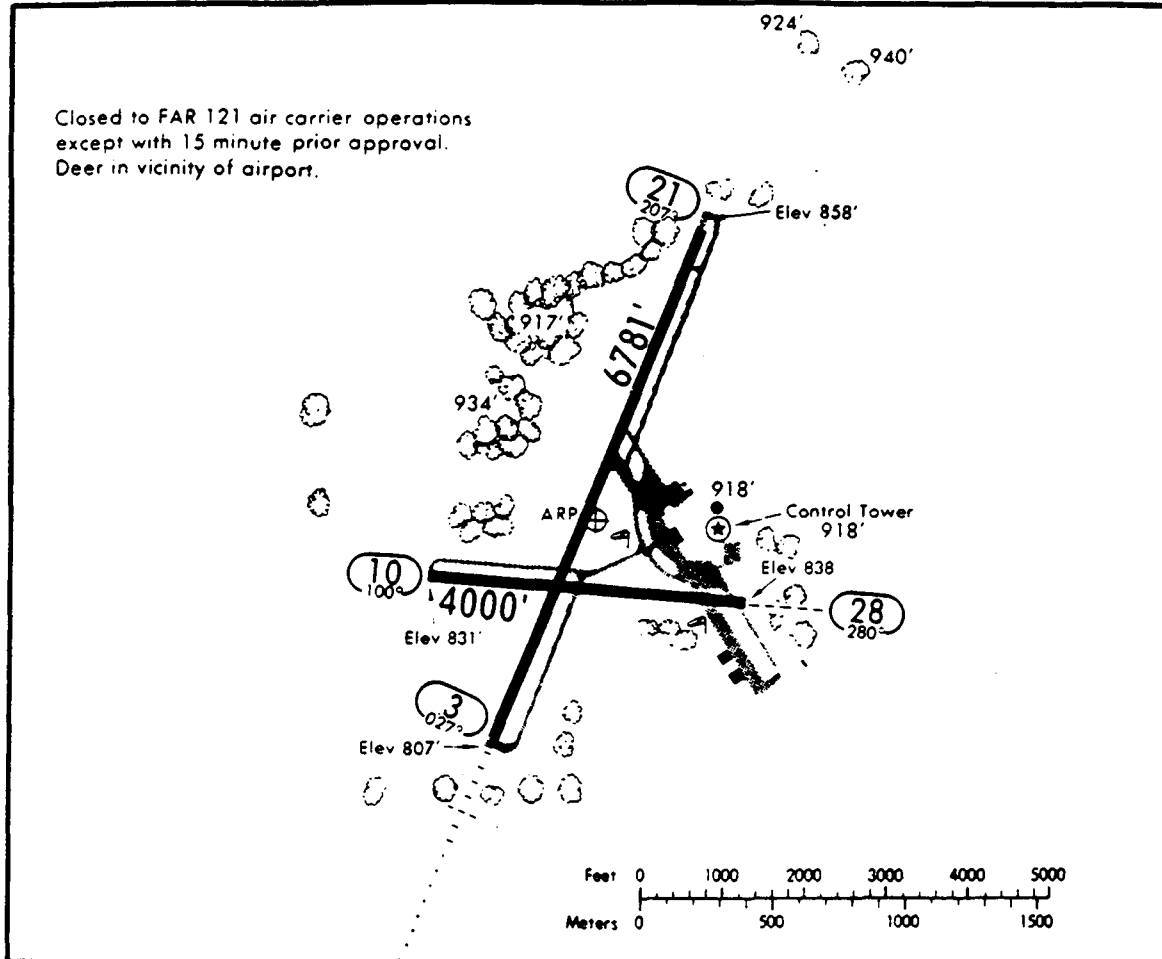
NONE

System Elements		QTY REQ'D
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 84	ESTABLISH	R/W 18
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PARKERSBURG WV (PKB)

AEA

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NONE

NEW GENERATION

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	-
Other	-
Total Displays	2

FY 84	ESTABLISH	R/W 03
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AEA



NEW GENERATION

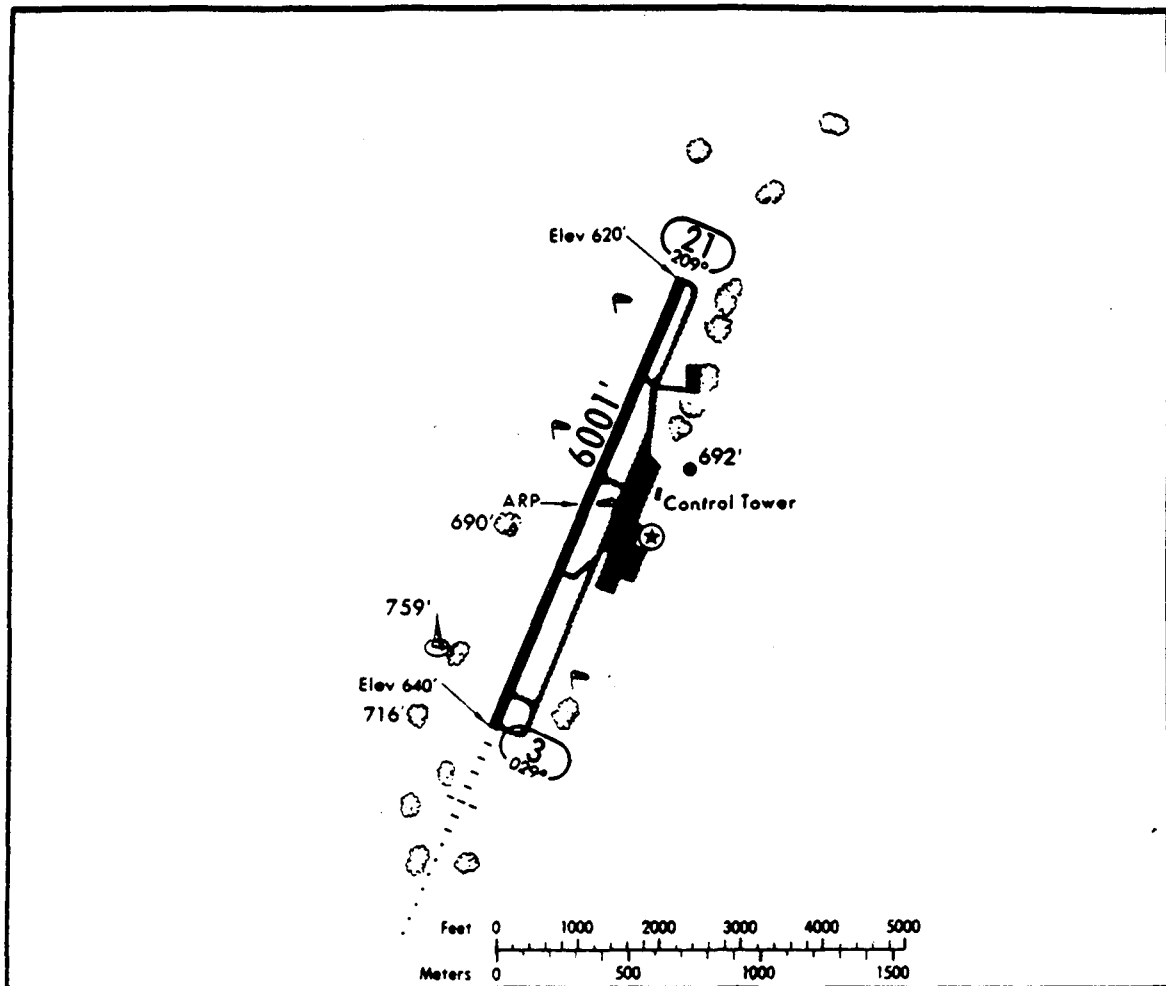
QTY REQ'D

Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 85	ESTABLISH	R/W 22
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CHARLOTTESVILLE VA (CHO)

AEA



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EXISTINGNEW GENERATION

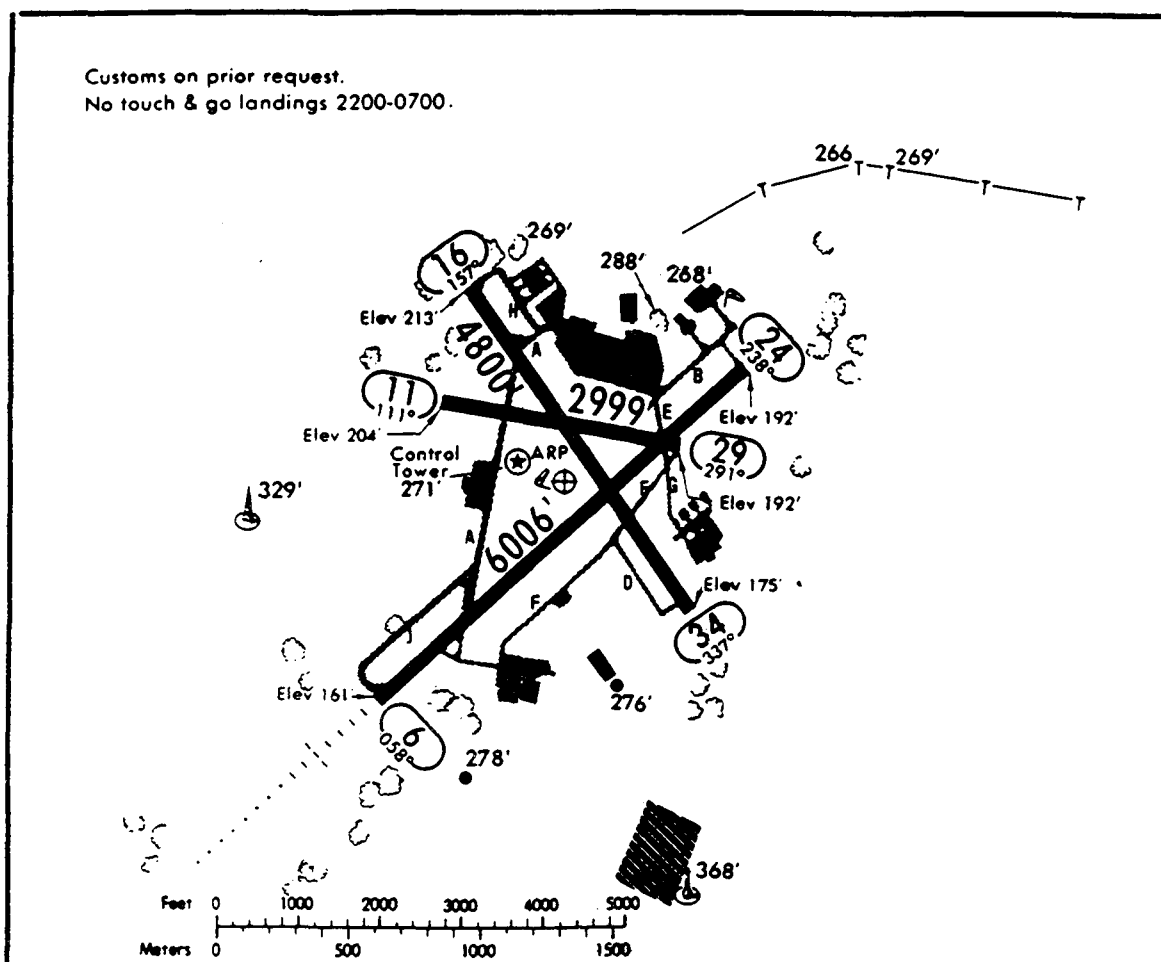
NONE

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 85	ESTABLISH	R/W 03
-------	-----------	--------

TRENTON NJ (TTN)

AEA



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EXISTING

NEW GENERATION

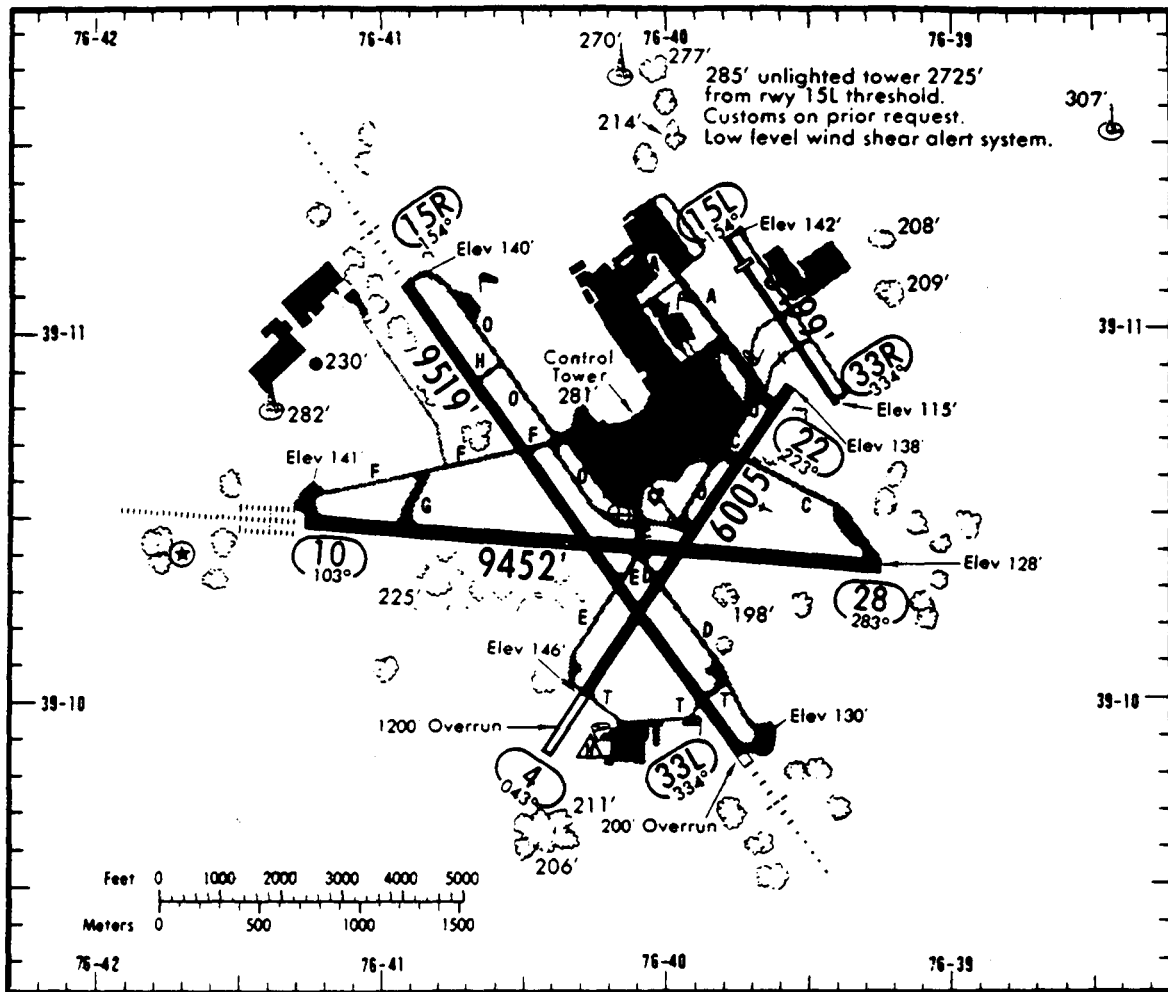
NONE

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS		
Other	-	
Total Displays		2

FY 85	ESTABLISH	R/W 06
-------	-----------	--------

BALTIMORE MD (BWI)

AEA

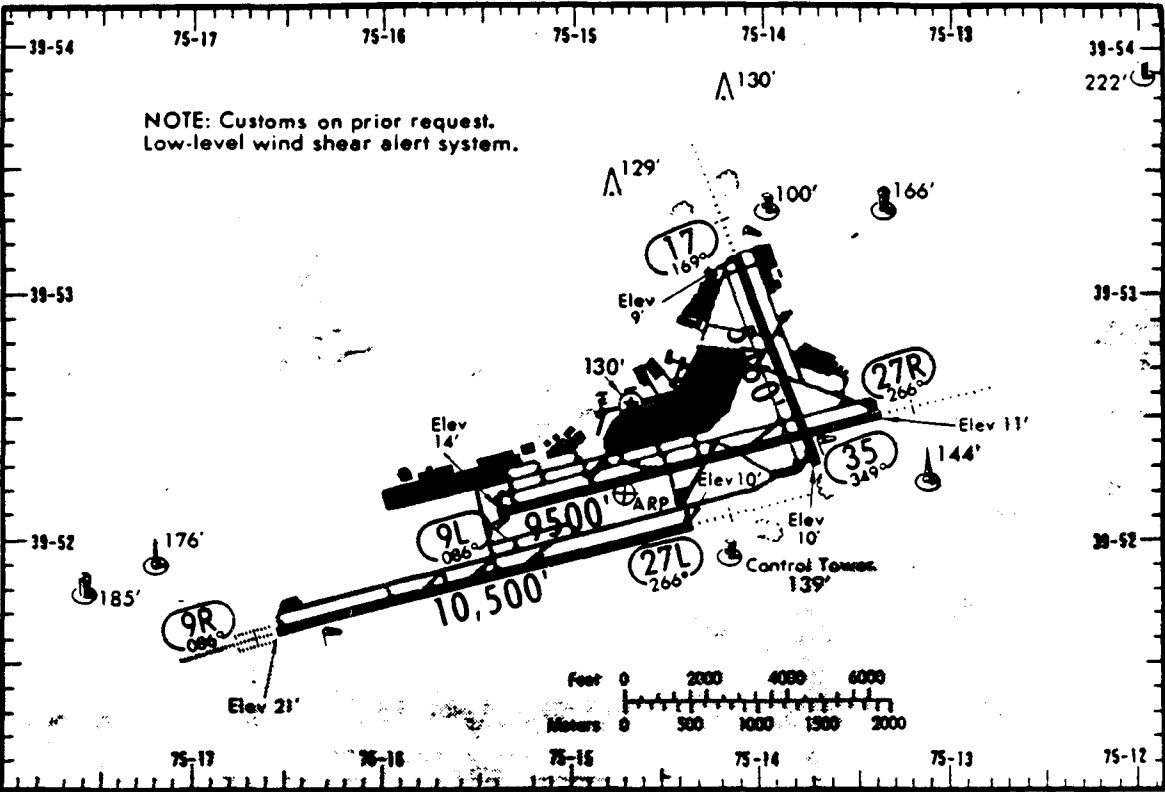
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		<u>System Elements</u>	<u>QTY REQ'D</u>
10	<u>347AD</u>	Basic	1
BALM	MP	Sensor Packages	3
BALT	TD	RLIM	1
BALR	RO	Displays	
15R	<u>347AD</u>	ATCT	2
FND	TD	TRACON	2
		NWS	1
		Other	-
		Total Displays	5

FY 85	REPLACE	R/W 10
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PHILADELPHIA PA (PHL)

AEA



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EXISTING

NEW GENERATION

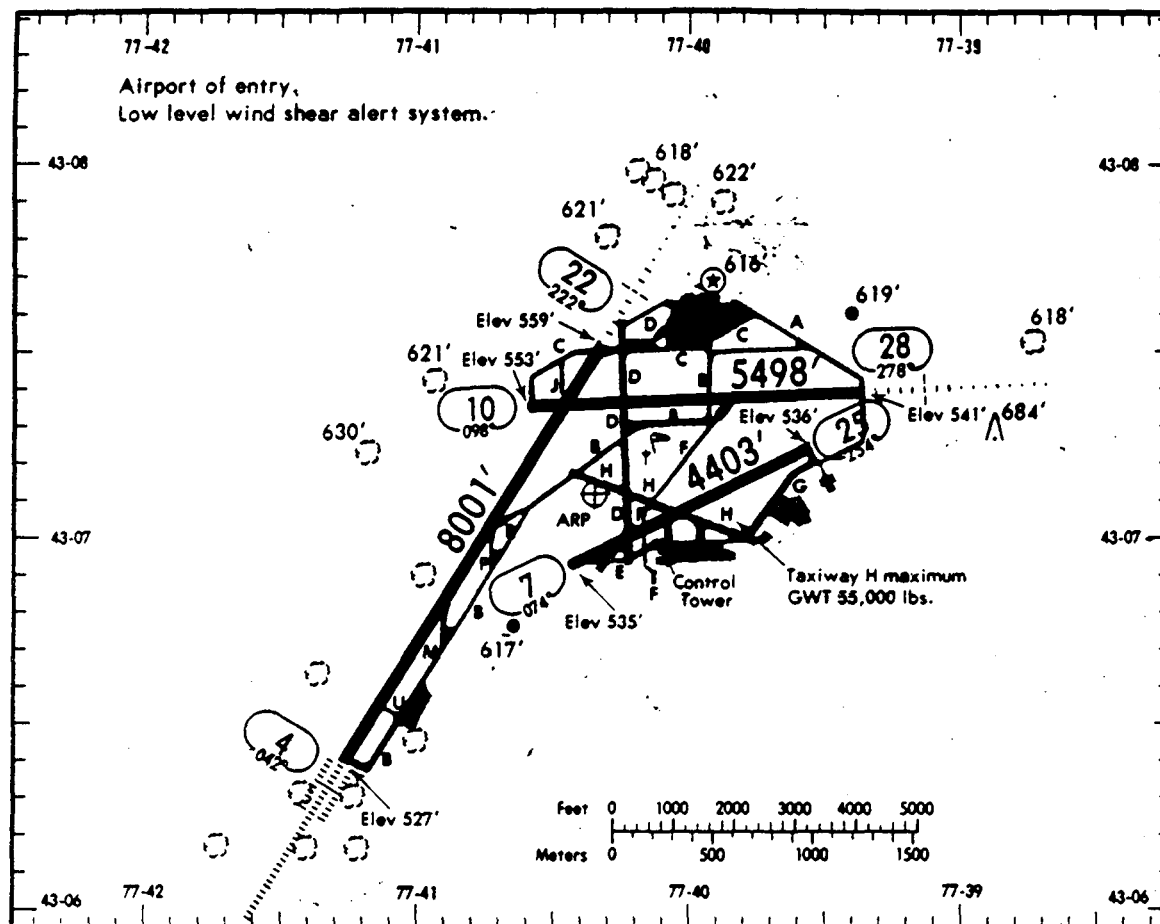
27R	<u>347AC</u>
PDP	TD
09R	<u>347AC</u>
PHLA	TD
PHLR	RO
09R	<u>347AD</u>
PHLM	MP

System Elements	QTY REQ'D
Basic	1
Sensor Packages	3
RLIM	1
Displays	
ATCT	3
TRACON	2
NWS	1
Other	-
Total Displays	6

FY 85	REPLACE	R/W 9R, 27R
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ROCHESTER NY (ROC)

AEA



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EXISTINGNEW GENERATION

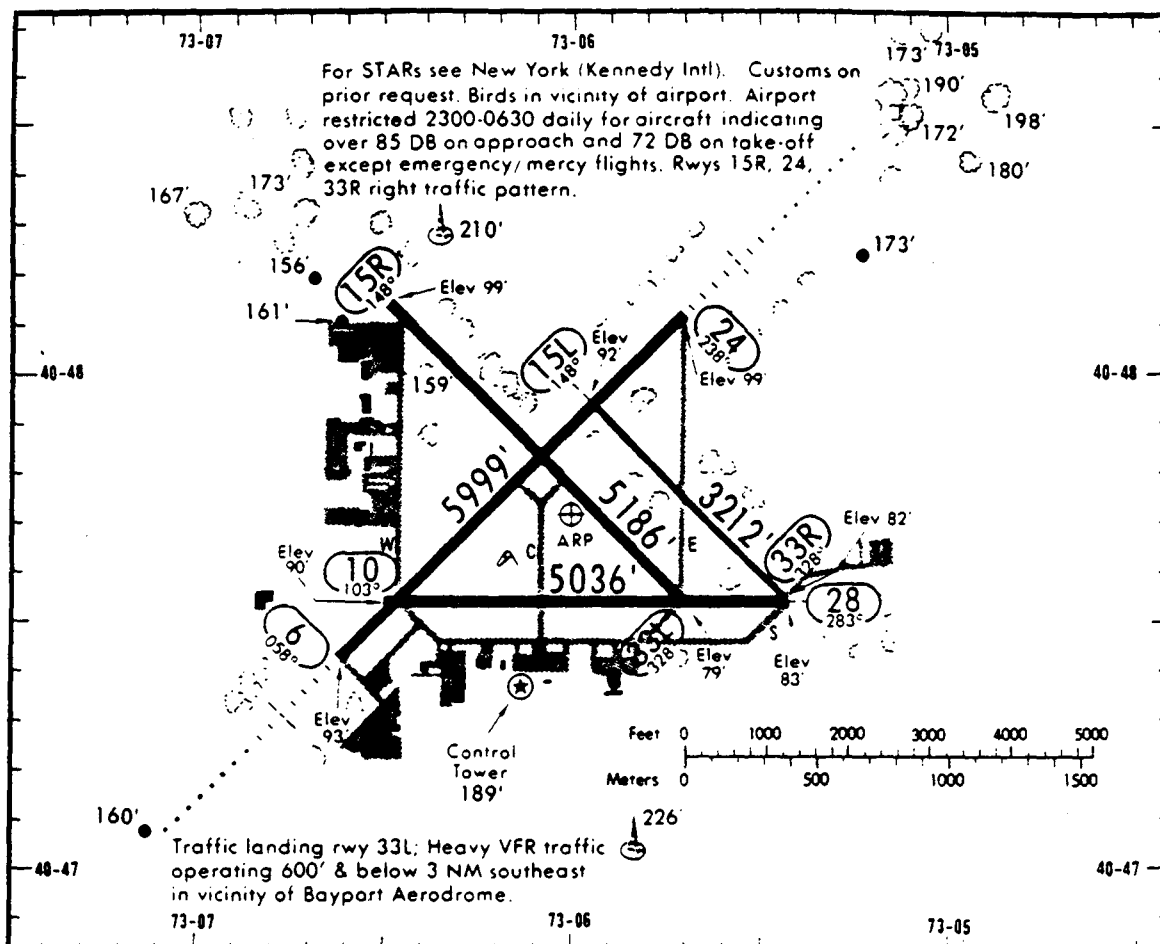
04	<u>347AC</u>
MCU	TD
22	<u>347AC</u>
MWD	TD
28	<u>347AC</u>
ROC	TD

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	2
RLIM	1
Displays	
ATCT	1
TRACON	2
NWS	1
Other	-
Total Displays	4

FY 85	REPLACE	R/W 04/22, 28
-------	---------	---------------

ISLIP NY (ISP)

AEA



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EXISTING

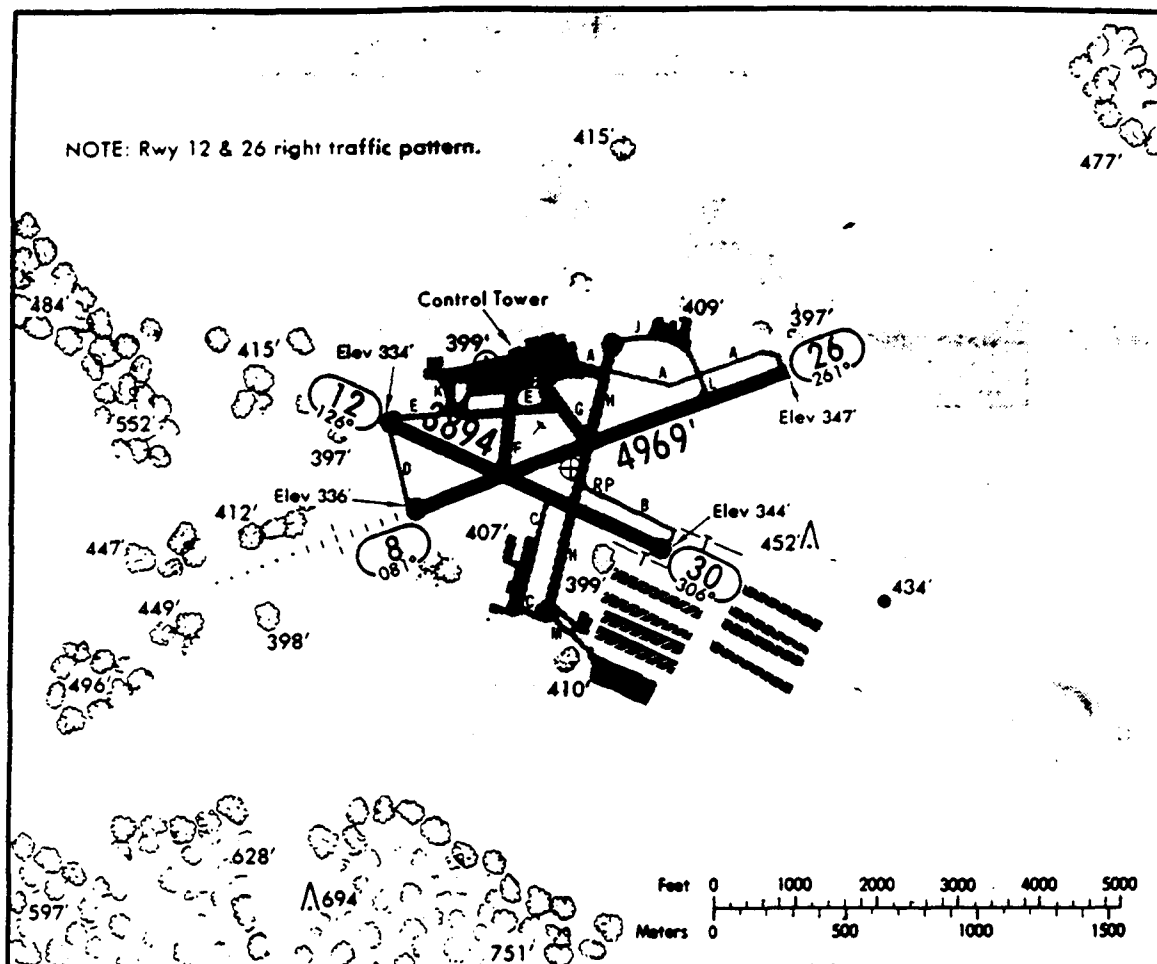
NEW GENERATION

06	<u>347AG</u>	<u>System Elements</u>	<u>QTY REQ'D</u>
ISP	TD	Basic	1
		Sensor Packages	-
		RLIM	-
		Displays	
		ATCT 1	
		TRACON -	
		NWS -	
		Other -	
		Total Displays	1

FY 85	CONVERT RVV	R/W 06
-------	-------------	--------

HARRISBURG PA (CXY)

AEA



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EXISTINGNEW GENERATION08 347AG

CXY TD

System ElementsQTY REQ'D

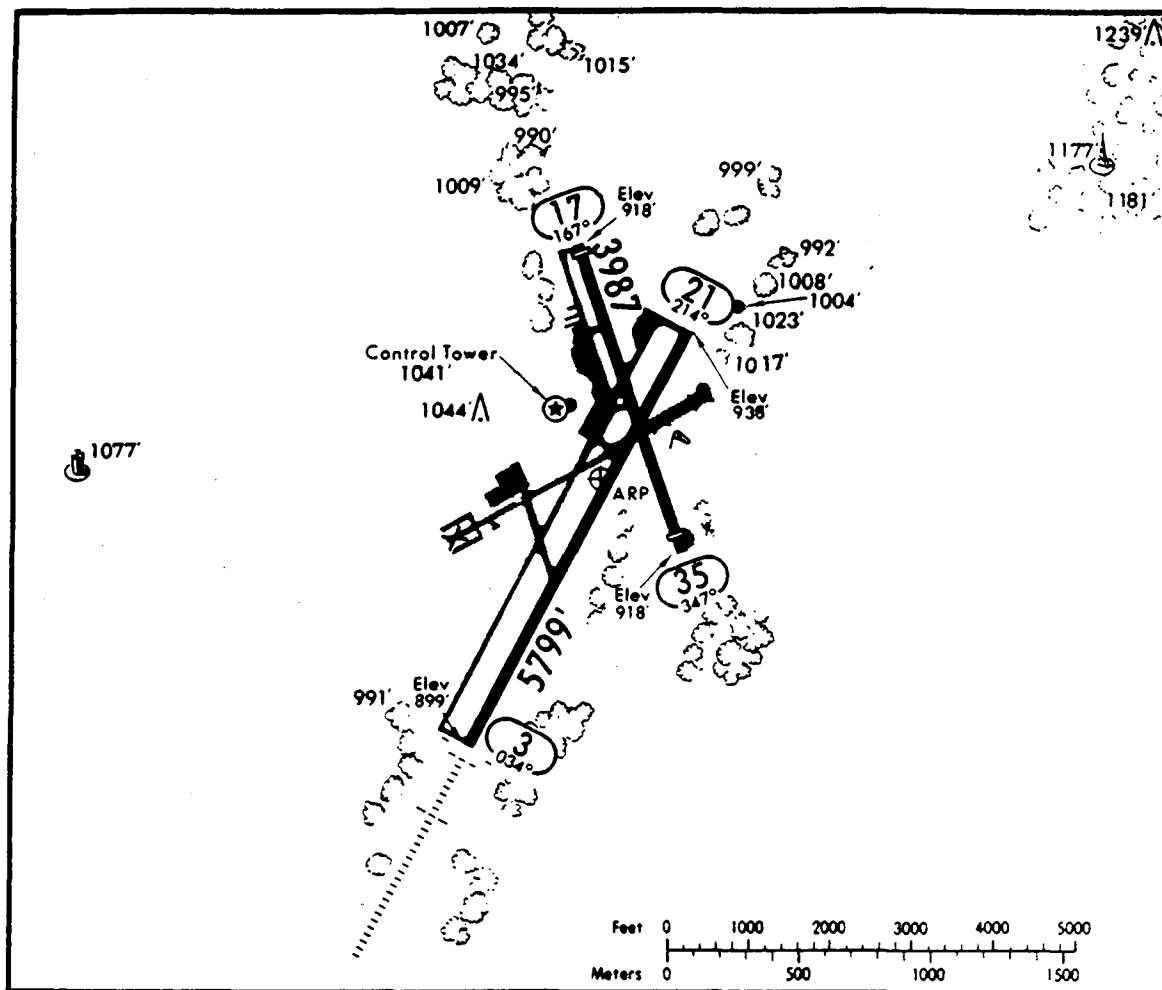
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	1
NWS	-
Other	-

Total Displays	2
----------------	---

FY 85	CONVERT RVV	R/W 08
-------	-------------	--------

LYNCHBURG VA (LYH)

AEA



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EXISTING

NEW GENERATION

03 347AE

LYH TD

System Elements

QTY REQ'D

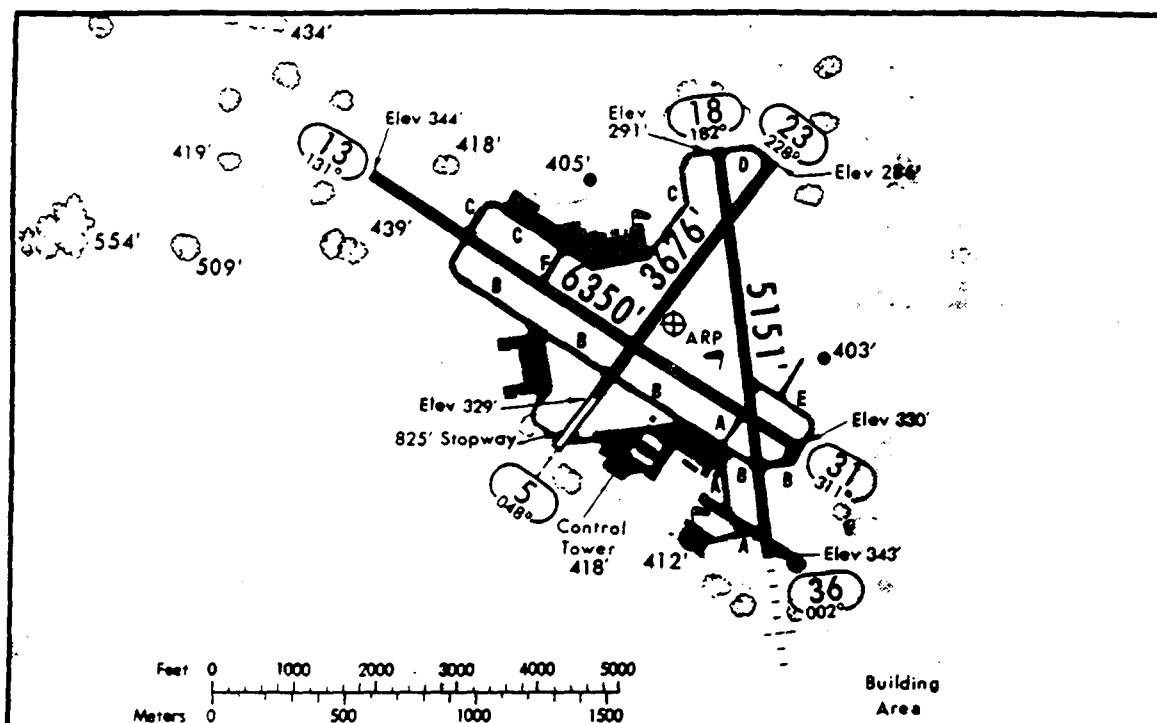
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	-
NWS	1
Other	-

Total Displays 2

FY 85	CONVERT RVV	R/W 03
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READING PA (RDG)

AEA

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ALL RIGHTS RESERVEDEXISTINGNEW GENERATION36 347AG

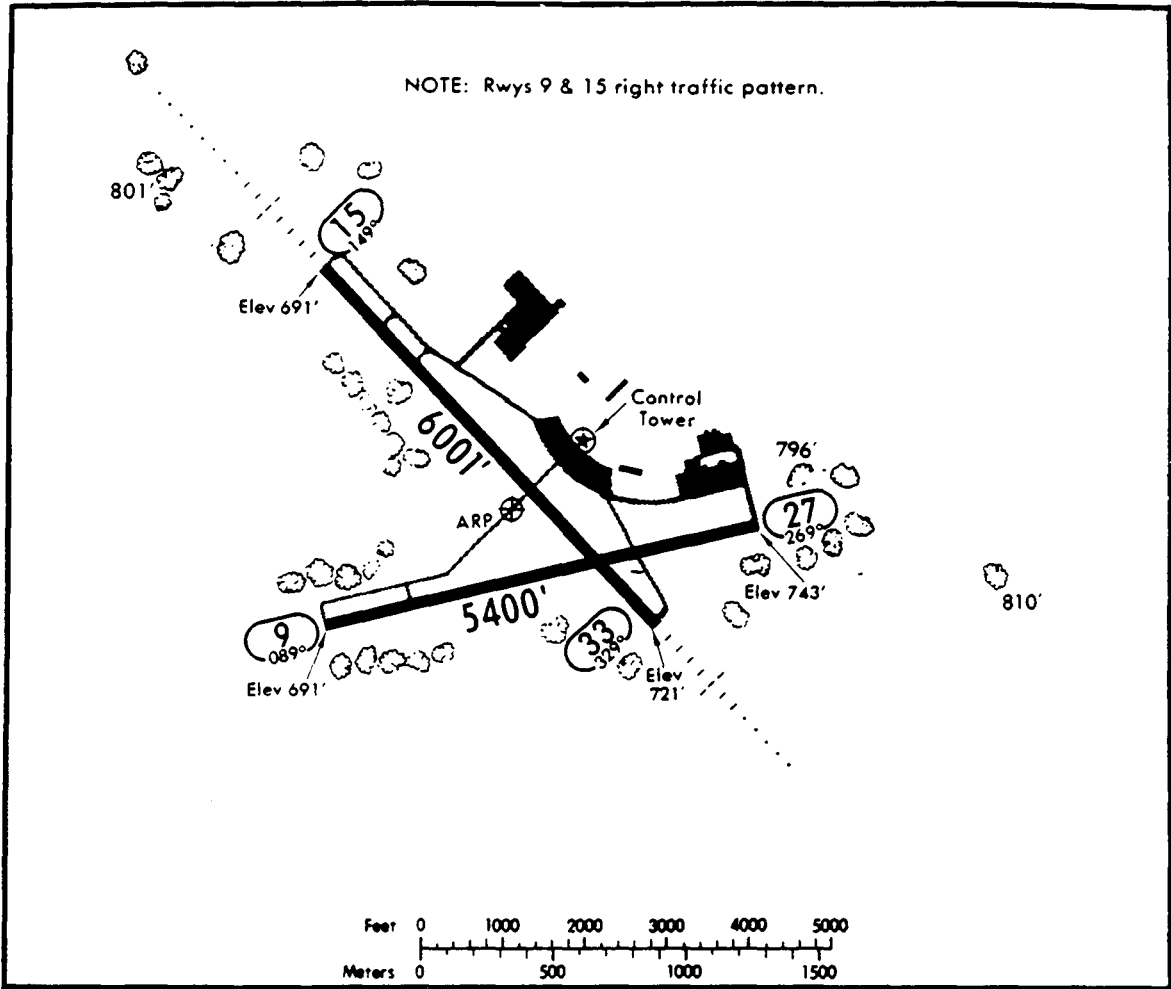
RDG TD

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	3
TRACON	-
NWS	-
Other	-
Total Displays	3

FY 85	CONVERT RVV	R/W 36
-------	-------------	--------

UTICA NY (UCA)

AEA



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EXISTING

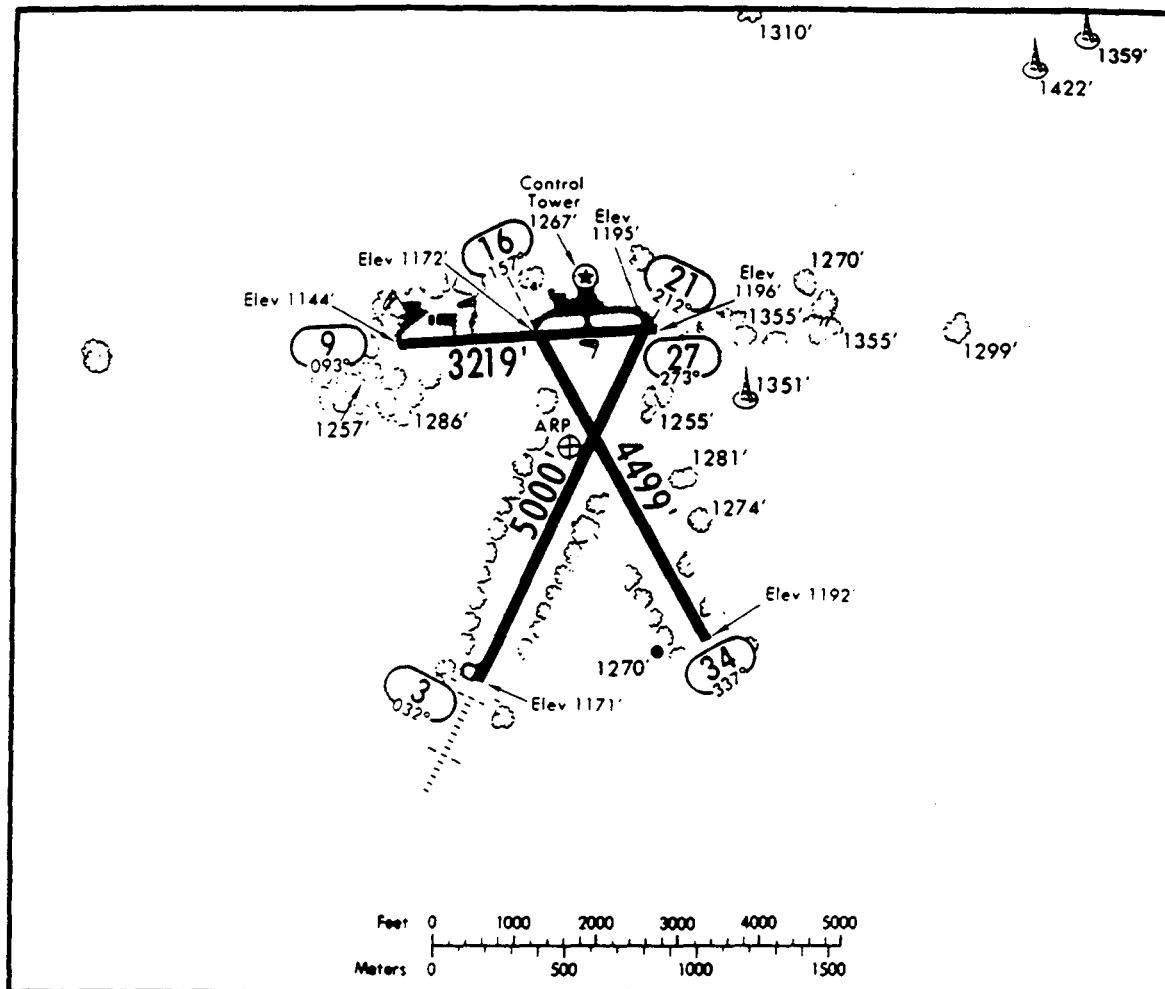
NEW GENERATION

		System Elements	QTY REQ'D
33	<u>347AG</u>	Basic	1
UCA	TD	Sensor Packages	-
		RLIM	-
		Displays	
		ATCT 1	
		TRACON -	
		NWS -	
		Other -	
		Total Displays	1

FY 85	CONVERT RVV	R/W 33
-------	-------------	--------

WHEELING WV (HLG)

AEA

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HLG TD

System ElementsQTY REQ'D

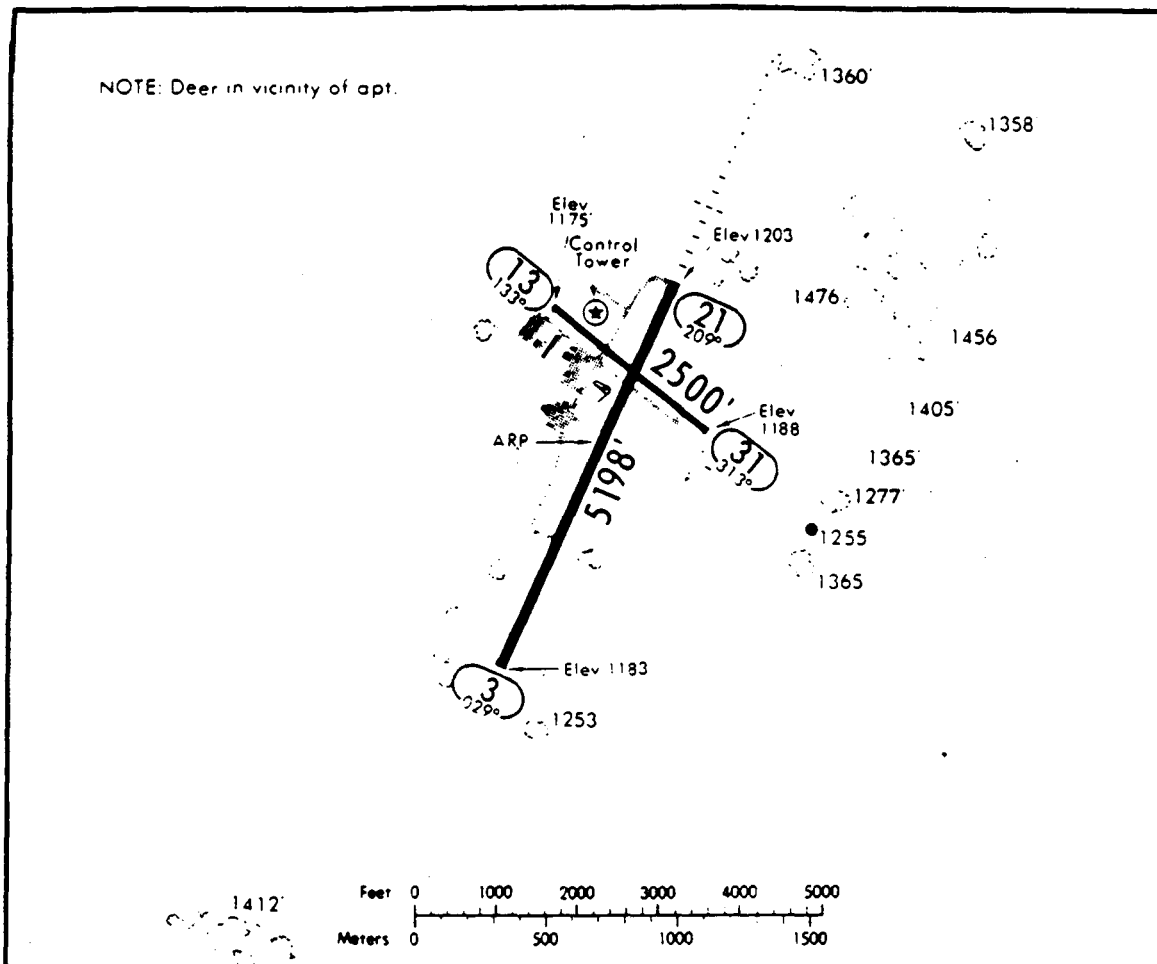
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	-	
NWS	-	
Other	-	

Total Displays		1
----------------	--	---

FY 85	CONVERT RVV	R/W 03
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CLARKSBURG WV (CKB)

AEA



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EXISTING

NEW GENERATION

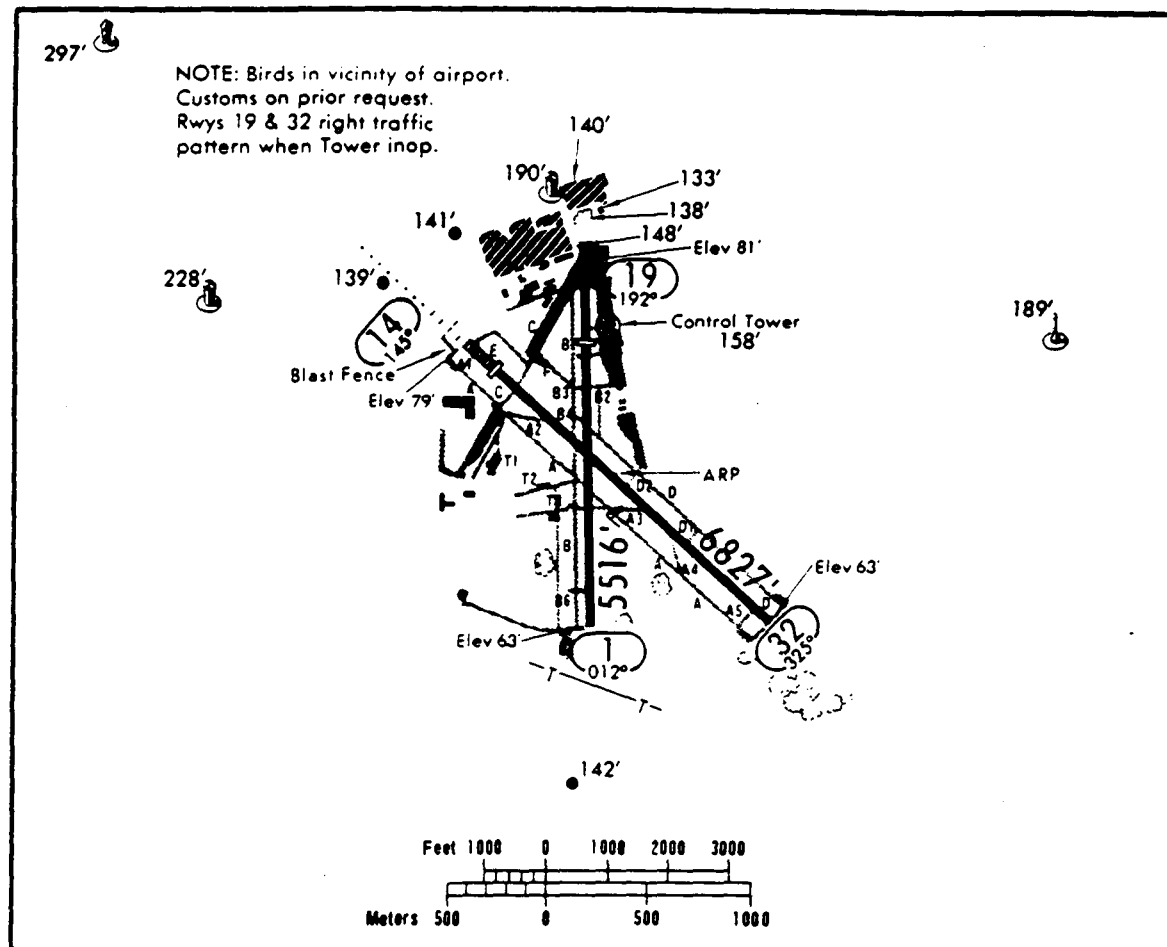
NONE

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 86	ESTABLISH	R/W 21
-------	-----------	--------

FARMINGDALE NY (FRG)

AEA



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EXISTINGNEW GENERATION

NONE

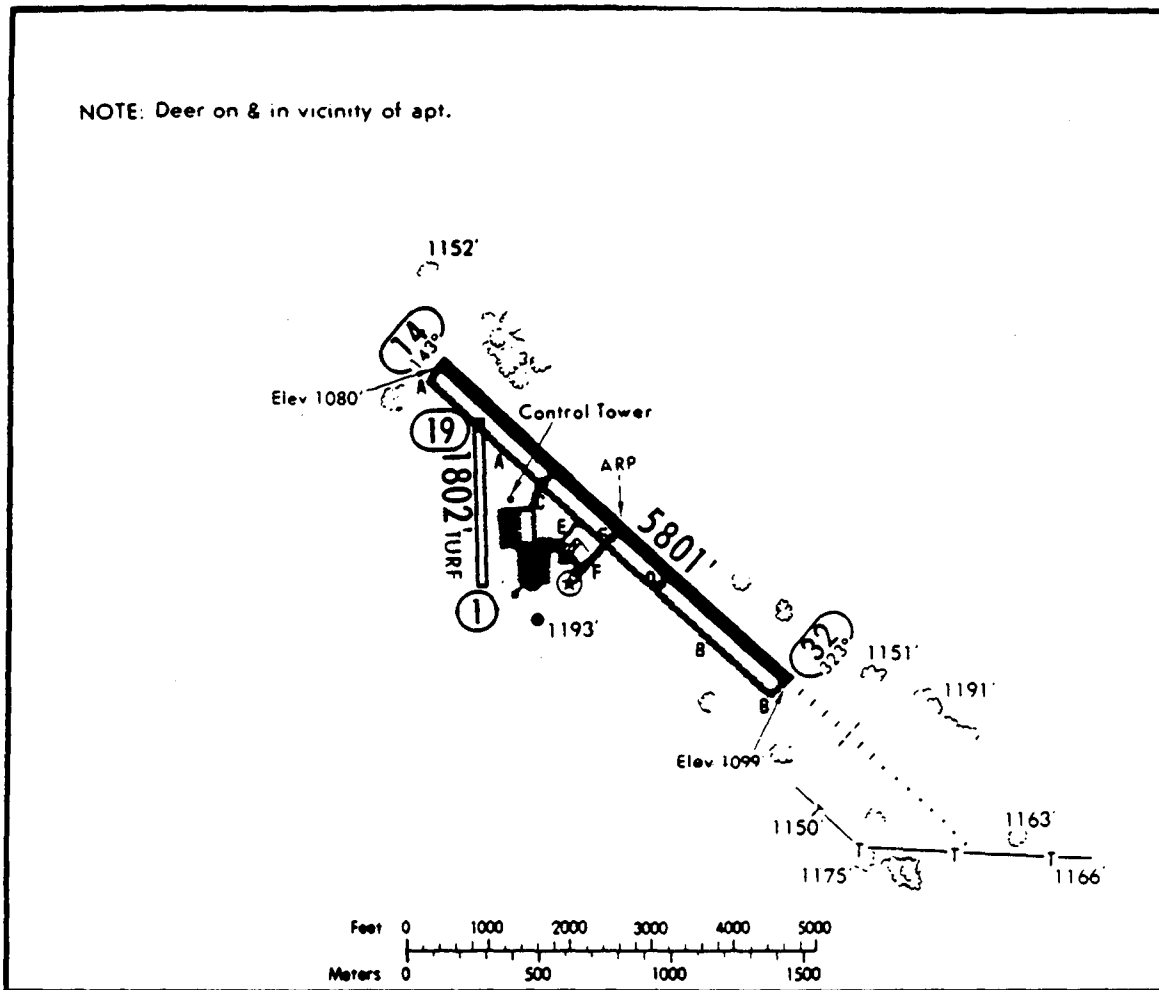
System ElementsQTY REQ'D

Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 86	ESTABLISH	R/W 14
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ITHACA NY (ITH)

AEA



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EXISTING

NEW GENERATION

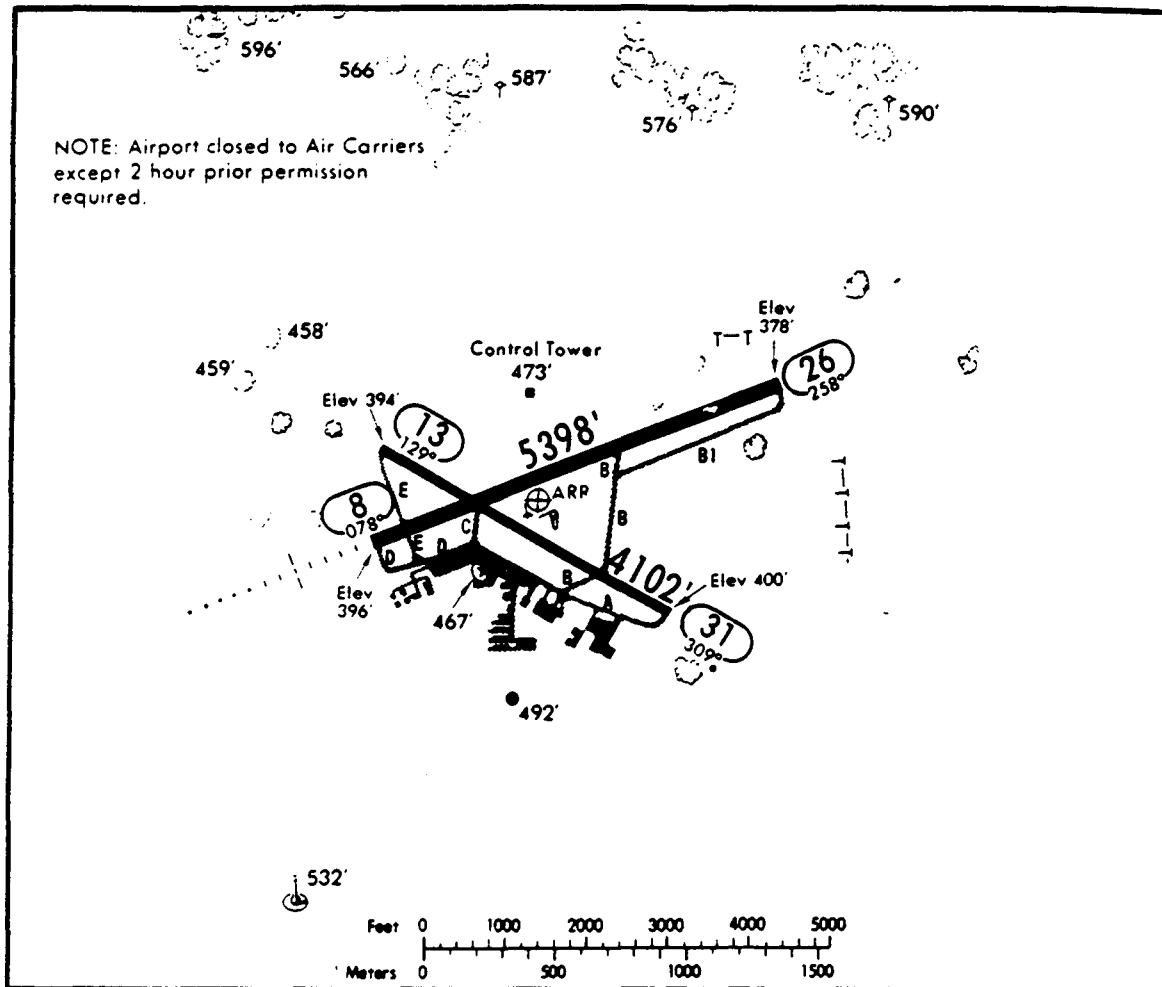
NONE

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 86	ESTABLISH	R/W 32
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LANCASTER PA (LNS)

AEA

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NONE

System ElementsQTY REQ'D

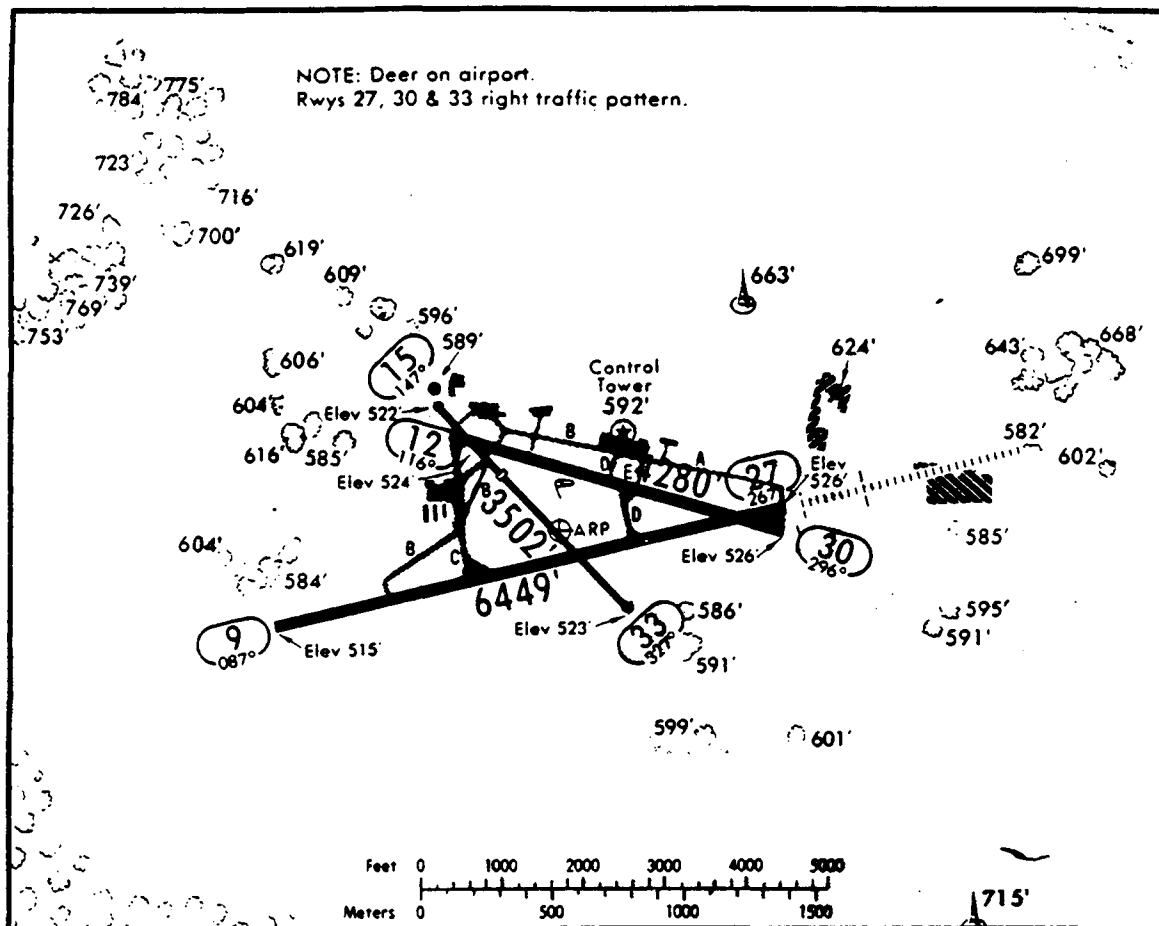
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	

Total Displays 2

FY 86	ESTABLISH	R/W 08
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WILLIAMSPORT PA (IPT)

AEA



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EXISTING

NEW GENERATION

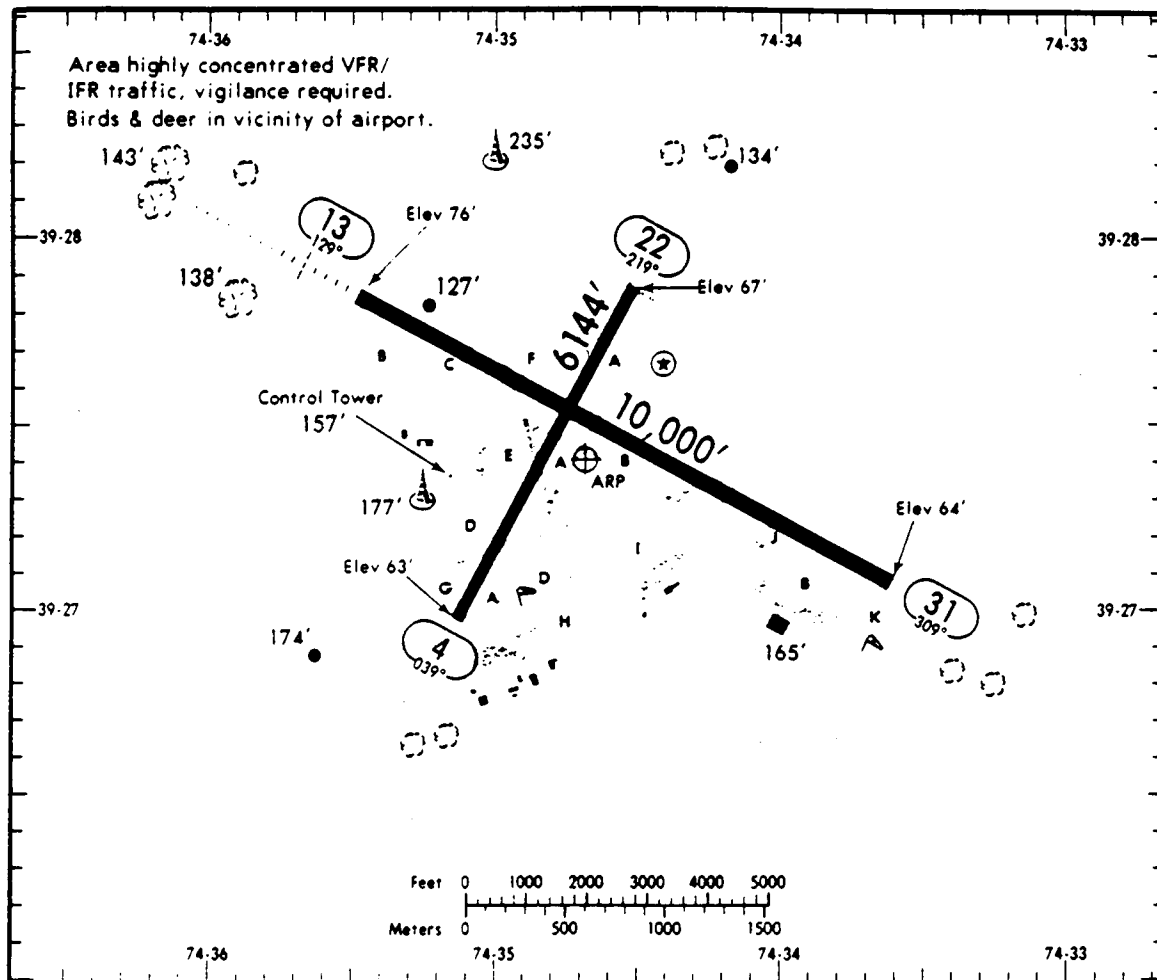
NONE

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 86	ESTABLISH	R/W 27
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ATLANTIC CITY NJ (ACY)

AEA



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EXISTINGNEW GENERATION13 347ADPVO TD
PVOR ROSystem ElementsQTY REQ'D

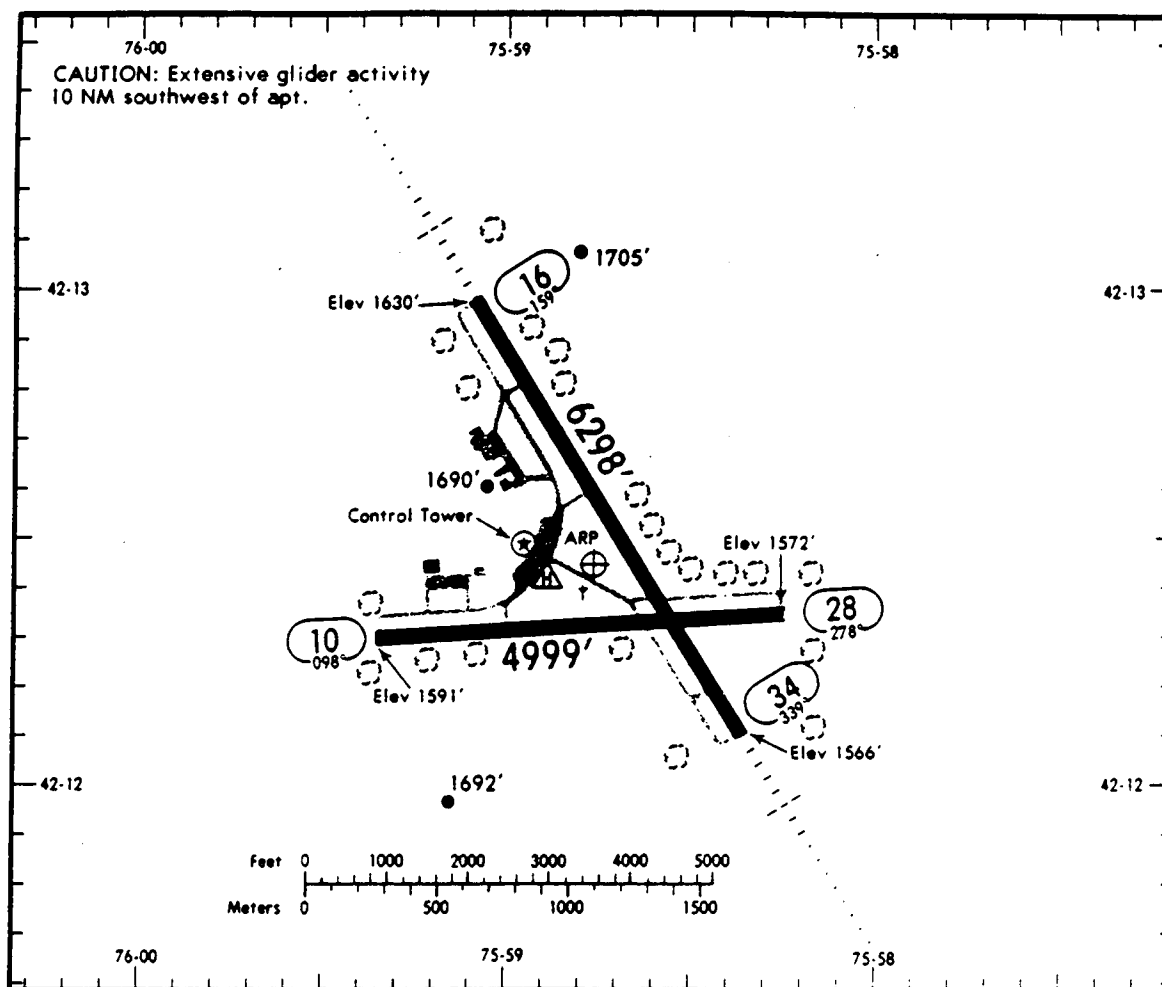
Basic	1
Sensor Packages	1
RLIM	-
Displays	
ATCT	1
TRACON	1
NWS	-
Other	-
Total Displays	2

FY 86	REPLACE	R/W 13
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8/10/88

BINGHAMTON NY (BLG)

AEA



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NEW GENERATION

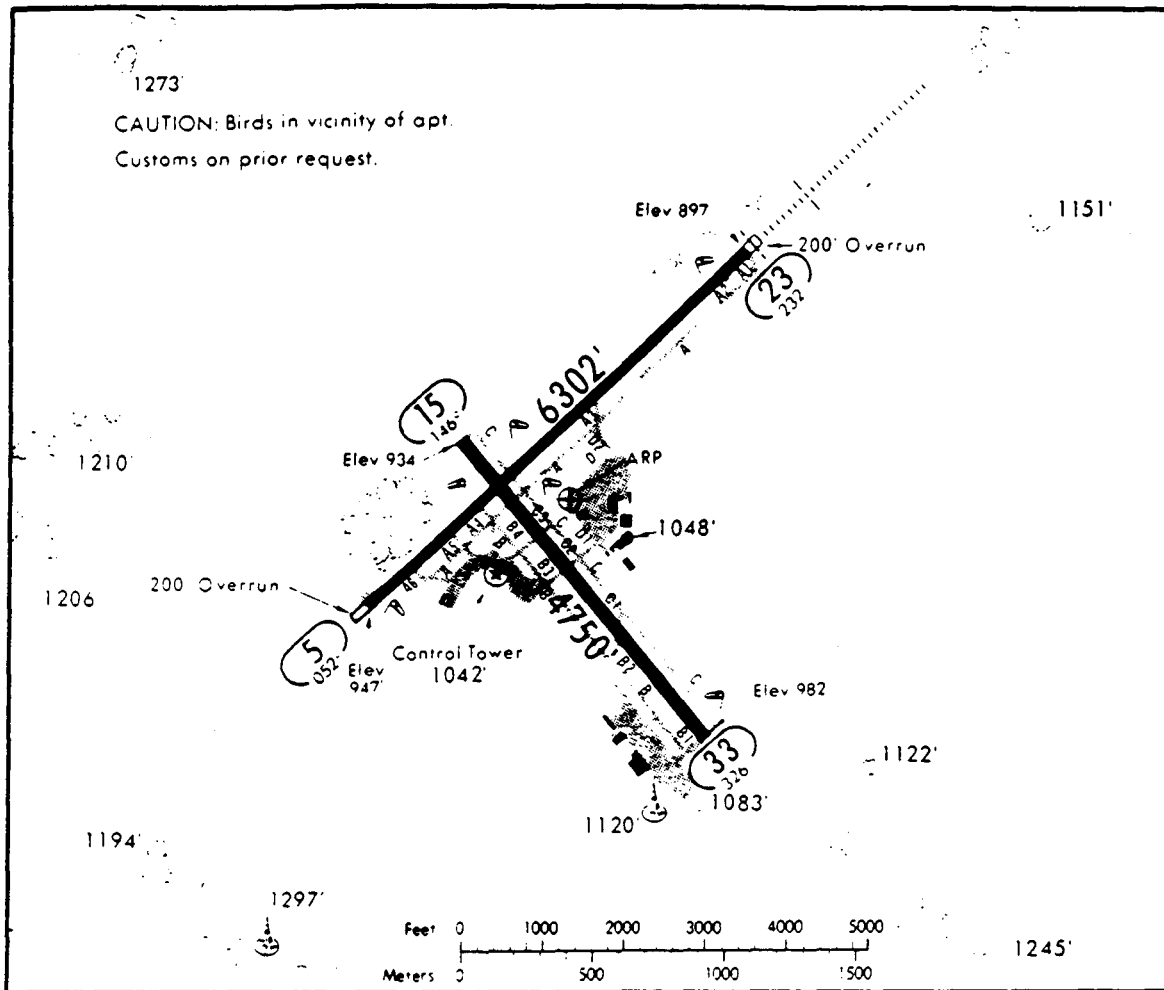
34 347AD
BGM TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	1	
NWS	-	
Other	-	
Total Displays		2

FY 86	REPLACE	R/W 34
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CHARLESTON WV (CRW)

AEA

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CRW TD

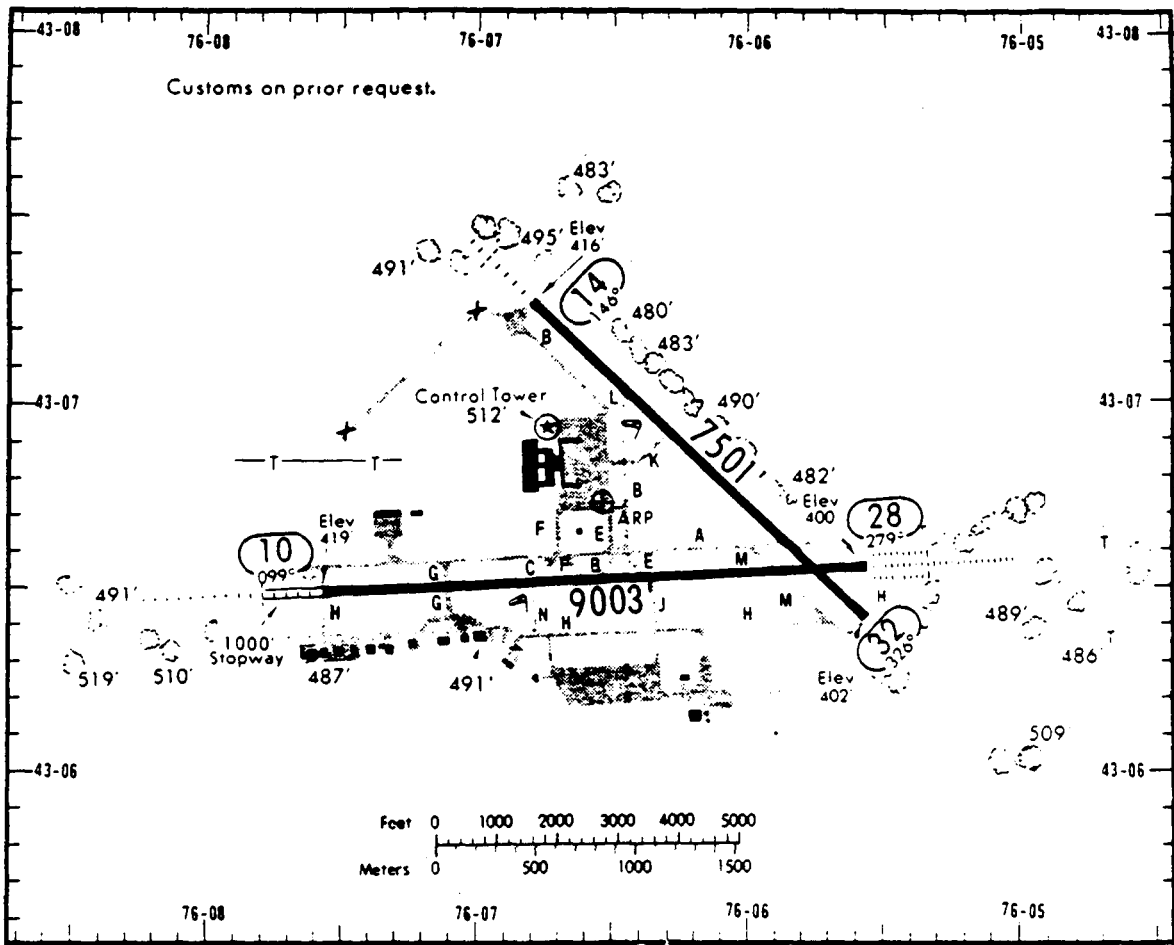
System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	2
NWS	1
Other	-
Total Displays	4

FY 86	REPLACE	R/W 23
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SYCRACUSE NY (SYR)

AEA



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EXISTING

NEW GENERATION

28 347AD

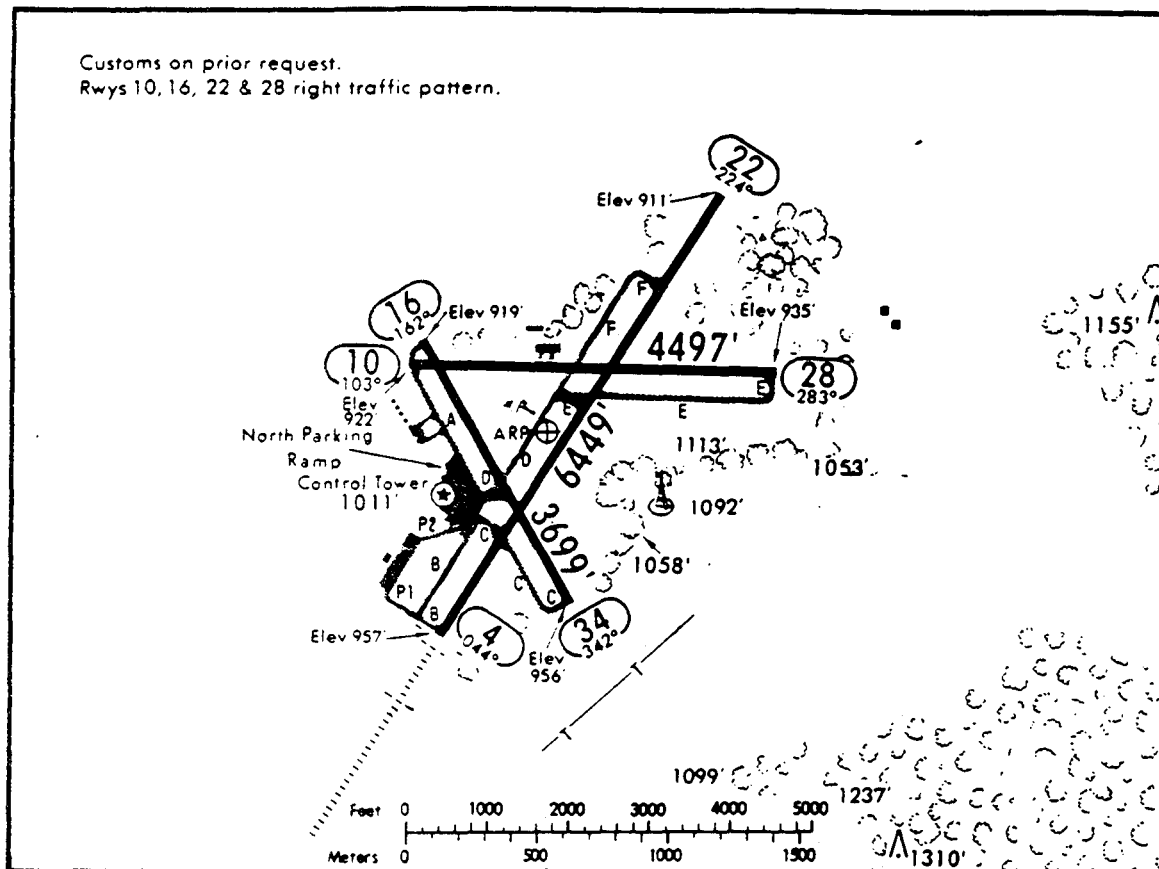
SYRA TD
SYRM MP
SYRR RO

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		2
RLIM		-
Displays		
ATCT	1	
TRACON	2	
NWS	-	
Other	-	
Total Displays		3

FY 86	REPLACE	R/W 28
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WILKES-BARRE PA (AVP)

AEA



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EXISTINGNEW GENERATION04 347AE

AVP TD

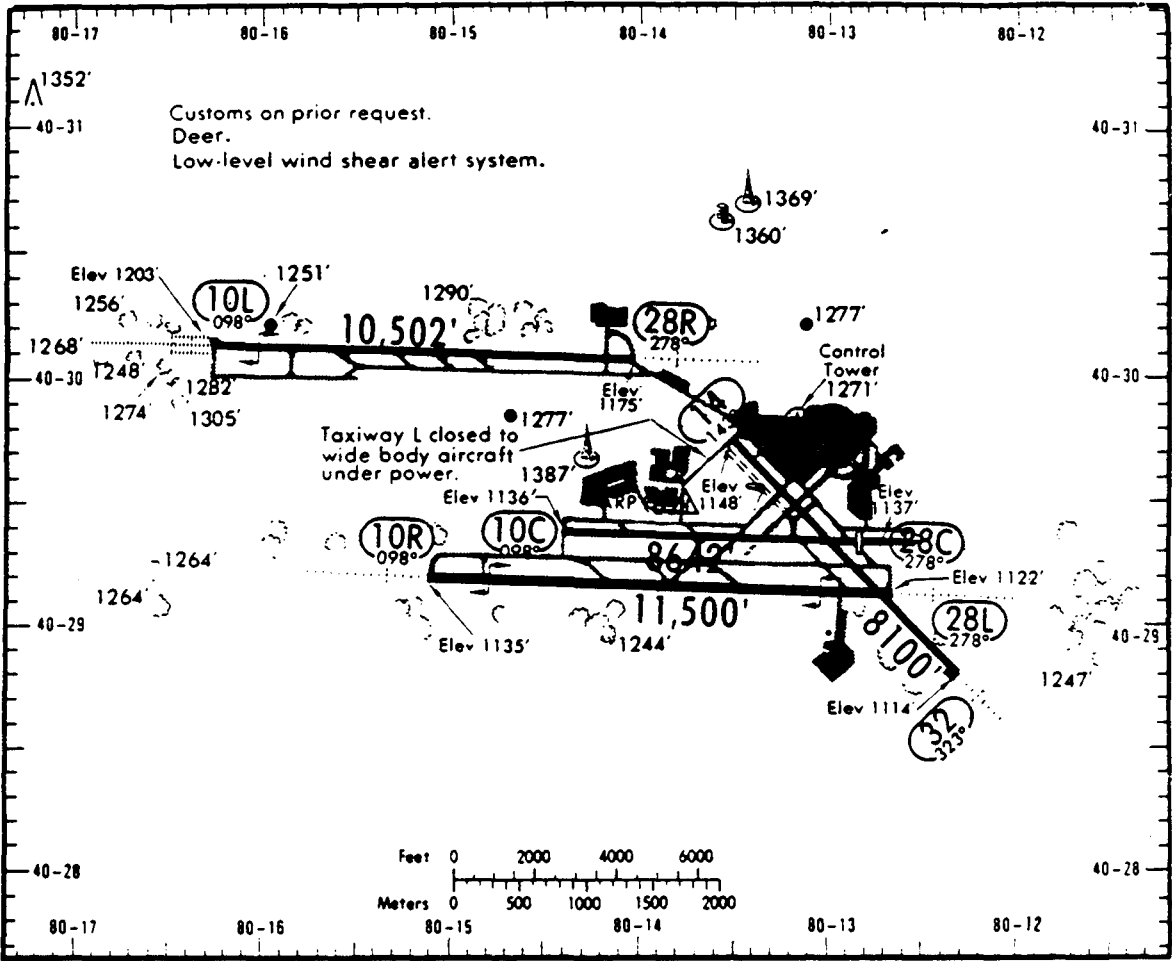
System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	1
NWS	1
Other	-
Total Displays	4

FY 93	REPLACE RVR	R/W 04
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PITTSBURGH PA (PIT)

AEA



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EXISTING

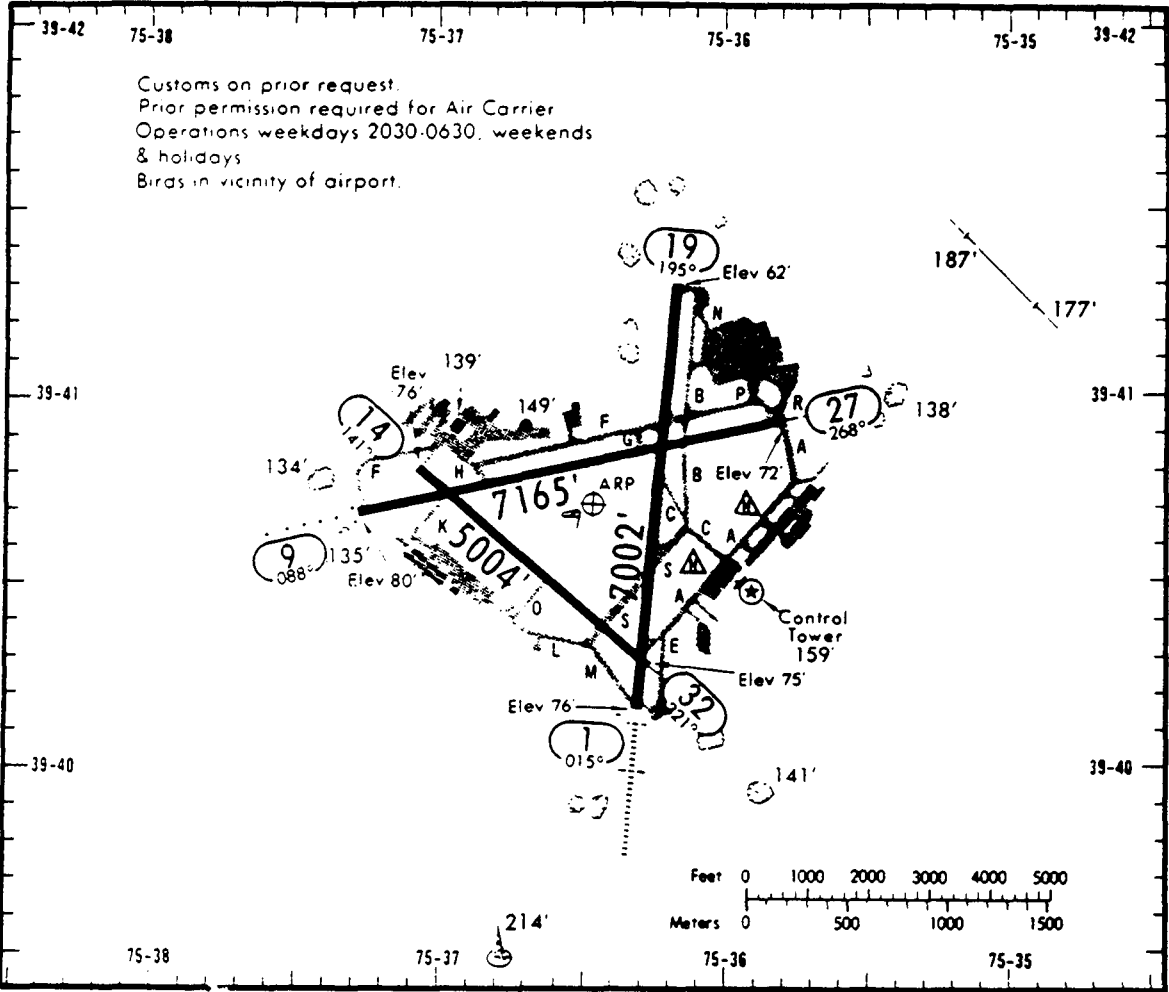
NEW GENERATION

		<u>System Elements</u>		<u>QTY REQ'D</u>
10L	<u>347AE</u>	Basic		1
LXBA	TD	Sensor Packages		4
LXBM	MP	RLIM		2
LXBB	RO	Displays		
28L	<u>347AE</u>	ATCT	4	
		TRACON	4	
		NWS	1	
PFS	TD	Other	-	
Total Displays				9

FY 93	REPLACE	R/W 10L, 28L/10R, 28C
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WILMINGTON DE (ILG)

AEA



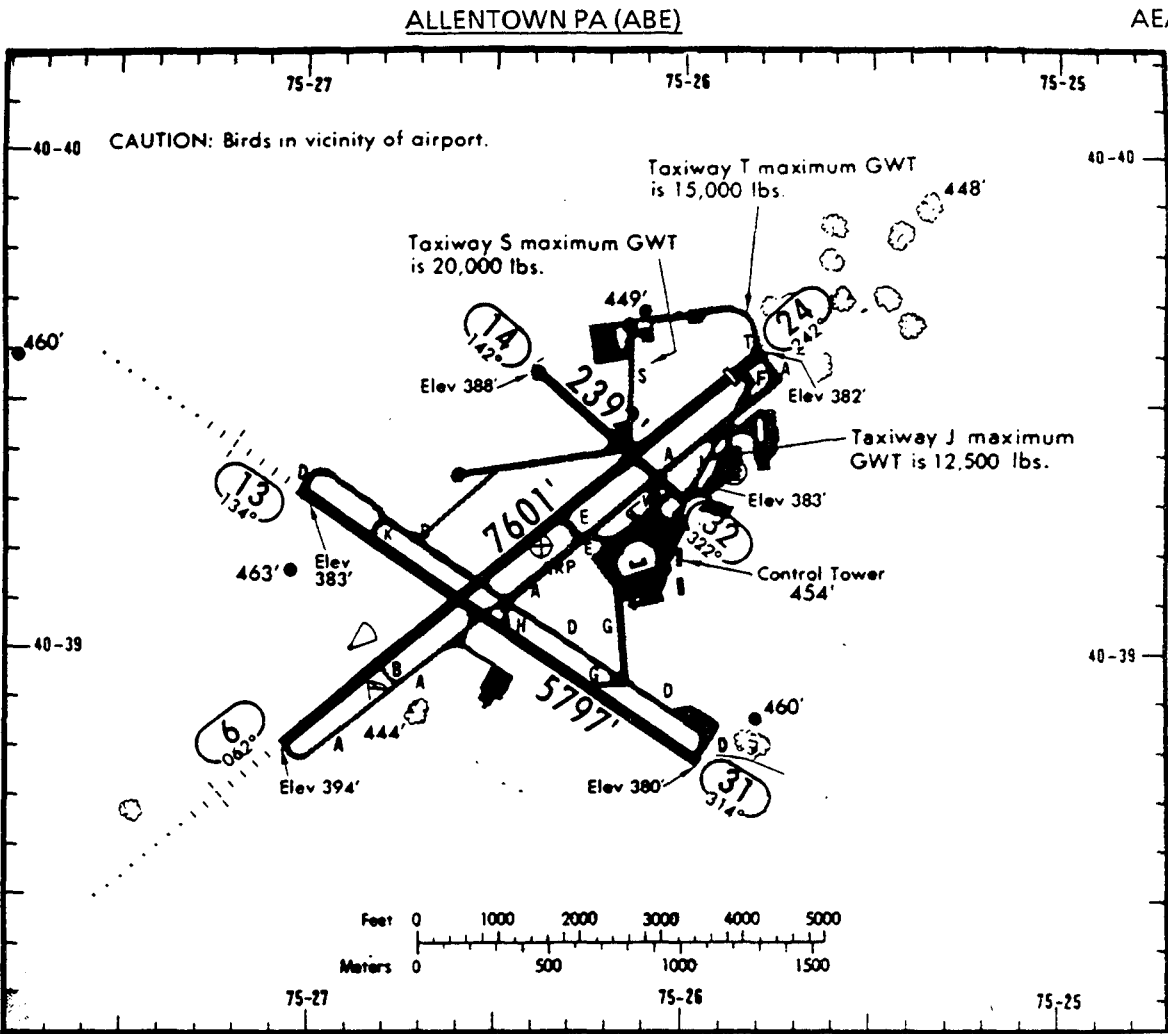
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EXISTING

NEW GENERATION

		System Elements	QTY REQ'D
01	347AD	Basic	1
ILG	TD	Sensor Packages	
		RLIM	
		Displays	
		ATCT	4
		TRACON	4
		NWS	1
		Other	-
		Total Displays	9

FY 93	REPLACE	R/W 10L, 28L/10R, 28C
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NEW GENERATION

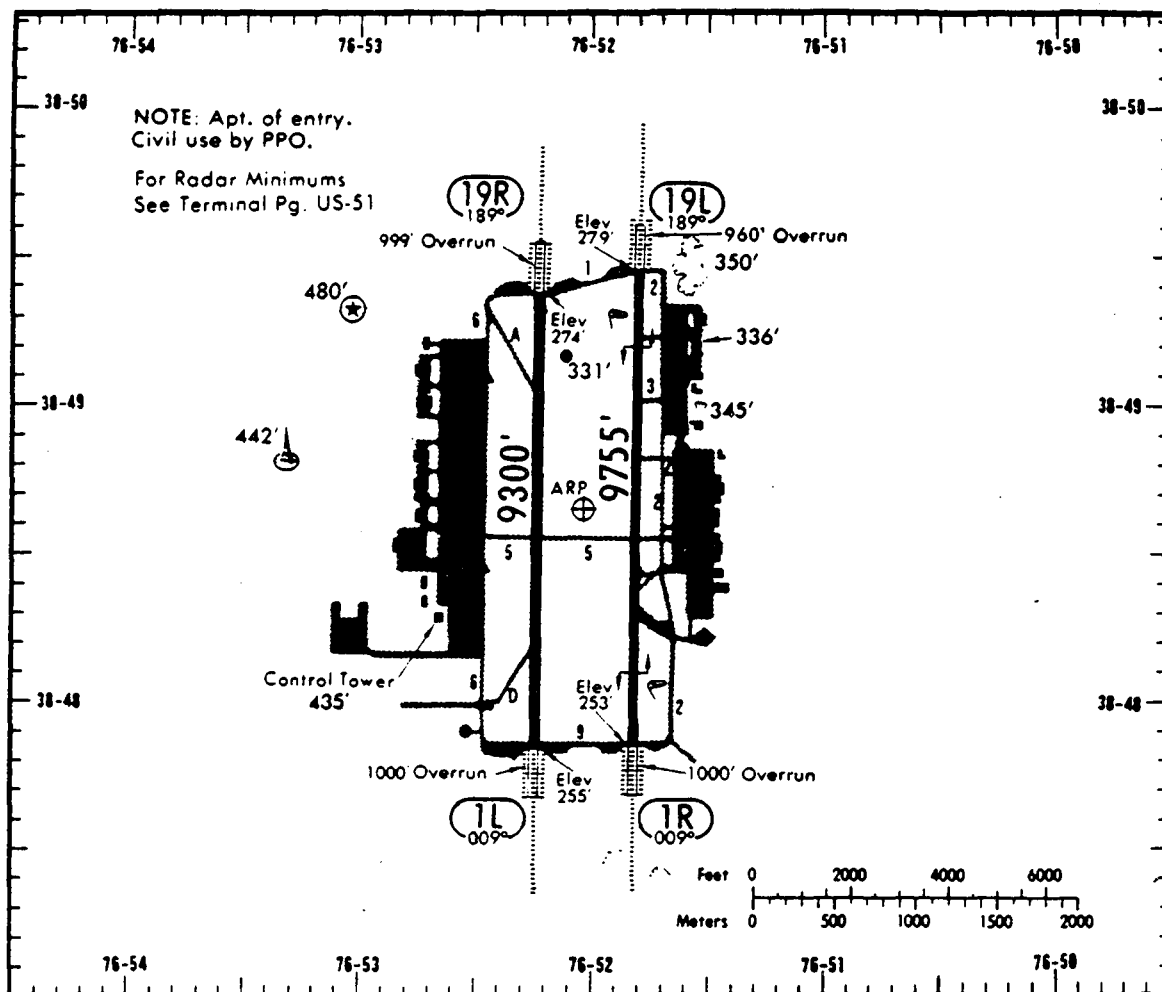
06 347AE
ABE TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	2	
NWS	-	
Other	-	
Total Displays		3

FY 93	REPLACE	R/W 06
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ANDREWS MD (ADW)

AEA

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ADWB RO19R 347AE

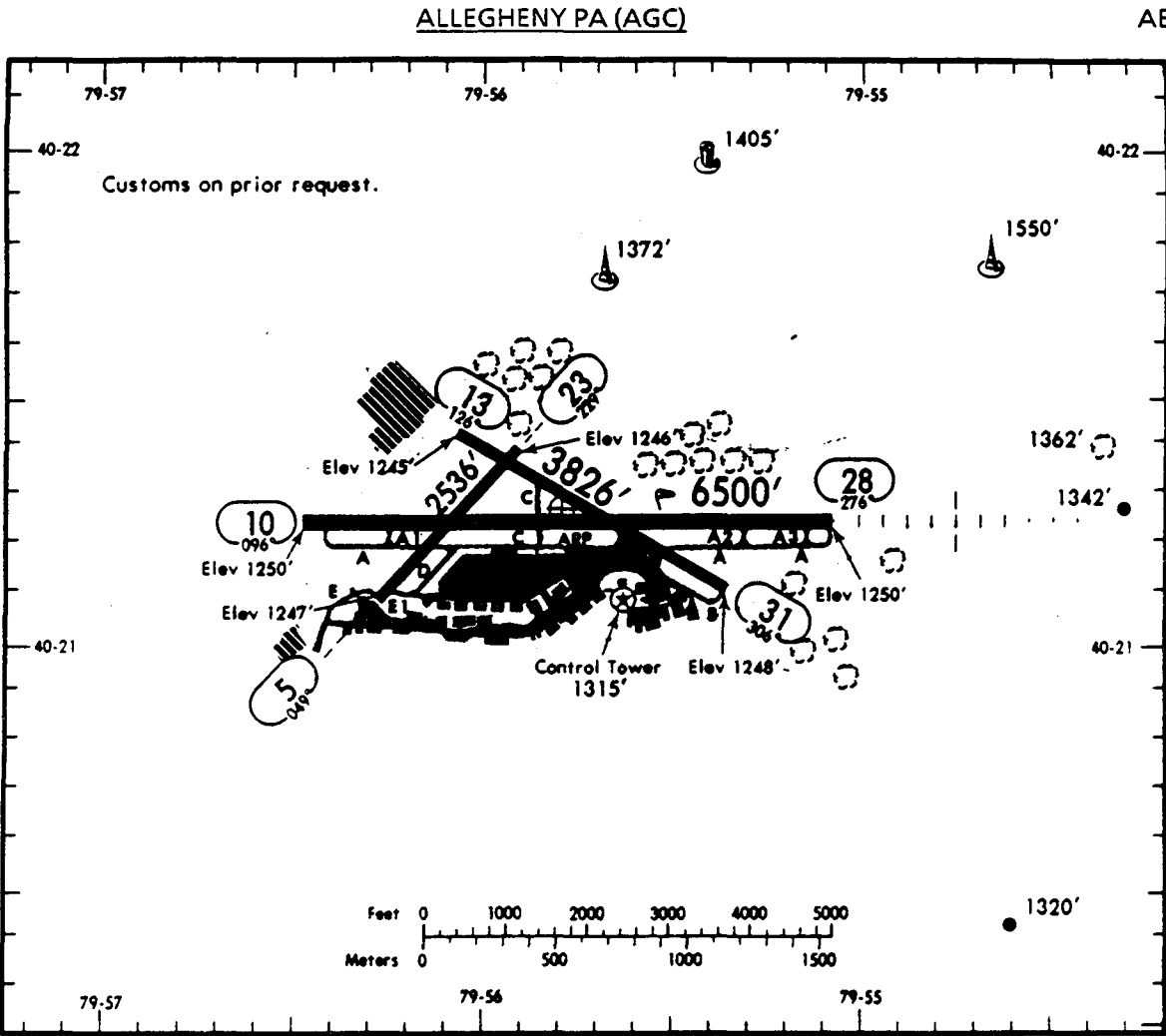
ADWA MP

System ElementsQTY REQ'D

Basic	1
Sensor Packages	2
RLIM	-
Displays	
ATCT	1
TRACON	2
NWS	1
Other	-

Total Displays	4
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FY 93	REPLACE	R/W 01L/19R
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NEW GENERATION

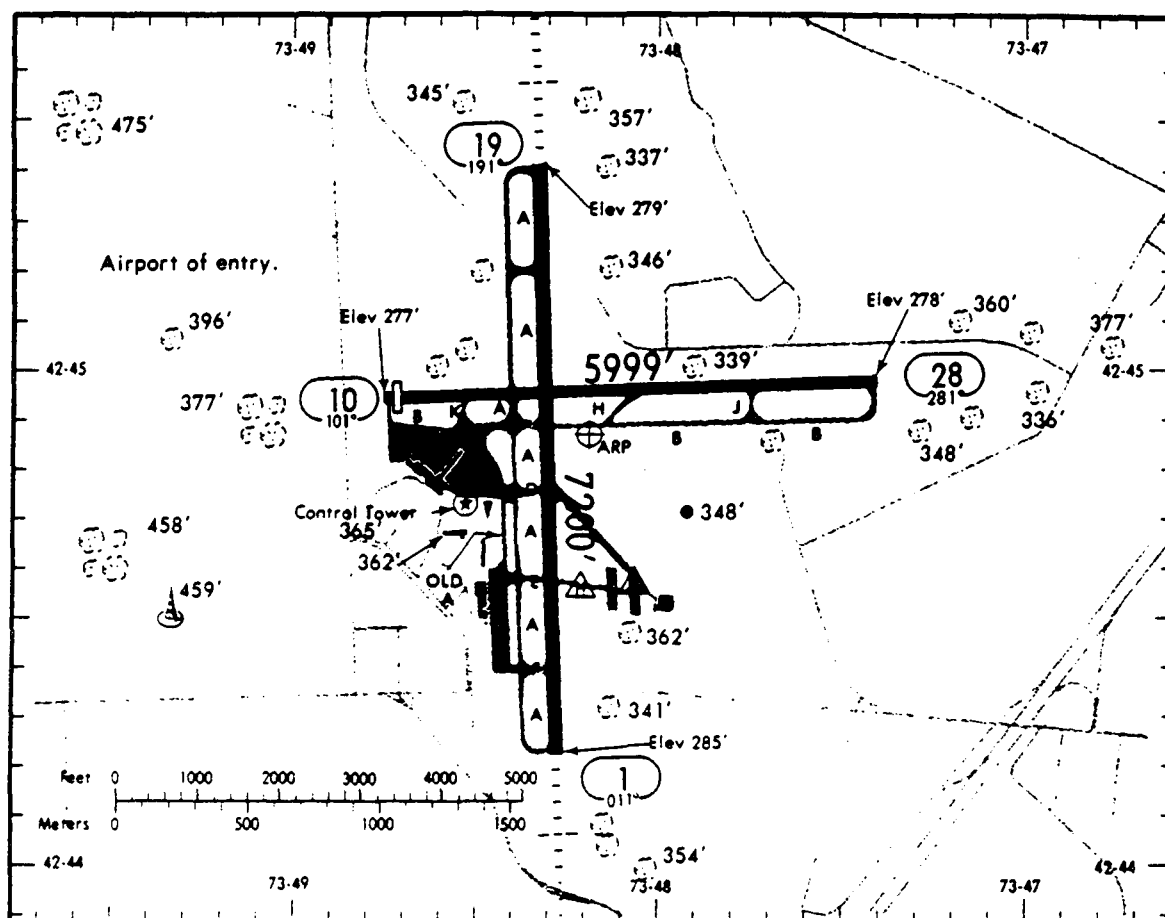
28 347AE
AGC TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	-	
NWS	-	
Other	1	
Total Displays		1

FY 93	REPLACE	R/W 28
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ALBANY NY (ALB)

AEA



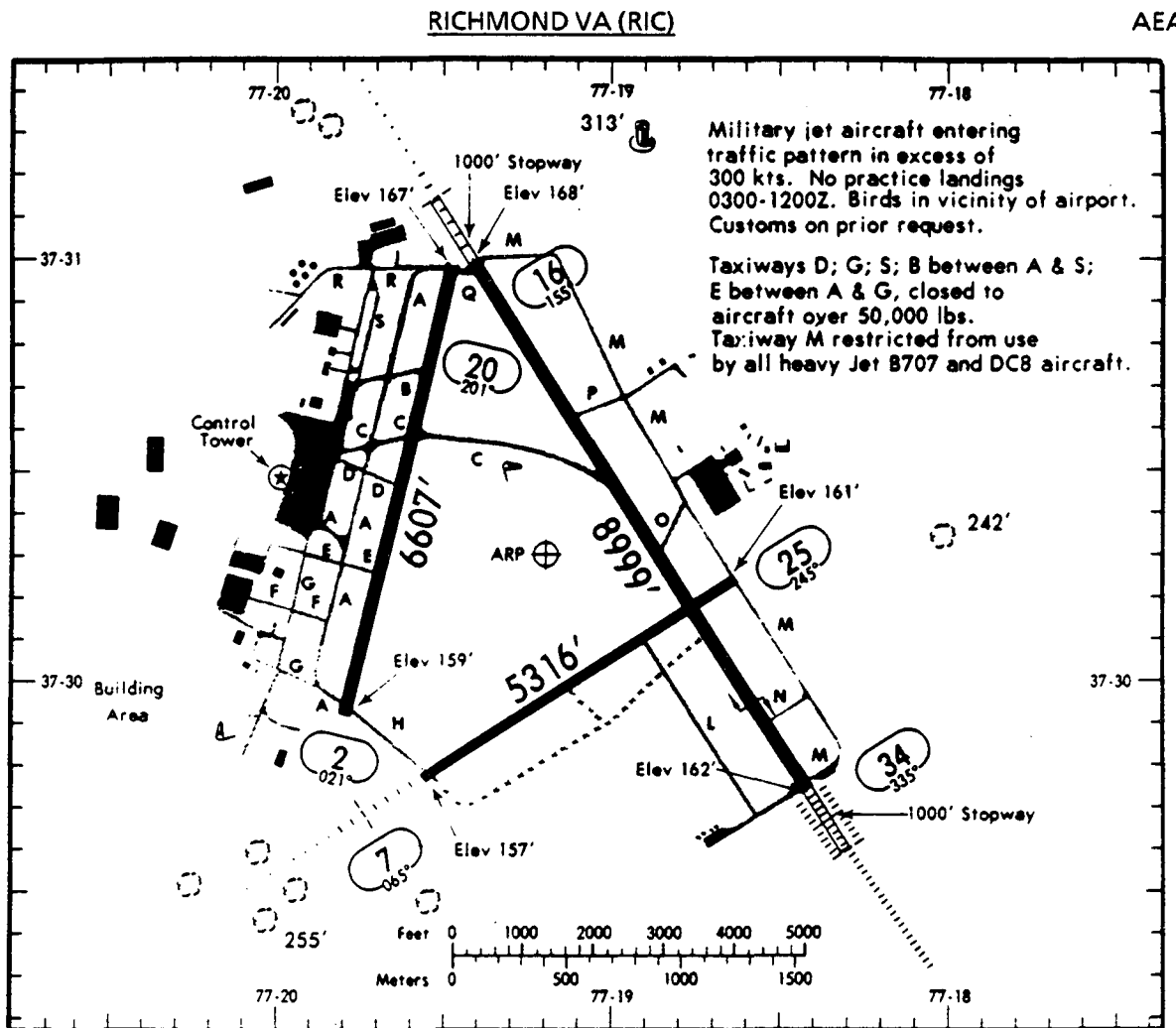
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EXISTING

NEW GENERATION

19	<u>347AE</u>	<u>System Elements</u>	<u>QTY REQ'D</u>
ALB	TD	Basic	1
		Sensor Packages	—
		RLIM	—
		Displays	
		ATCT	2
		TRACON	2
		NWS	1
		Other	—
		Total Displays	5

FY 93	REPLACE	R/W 19
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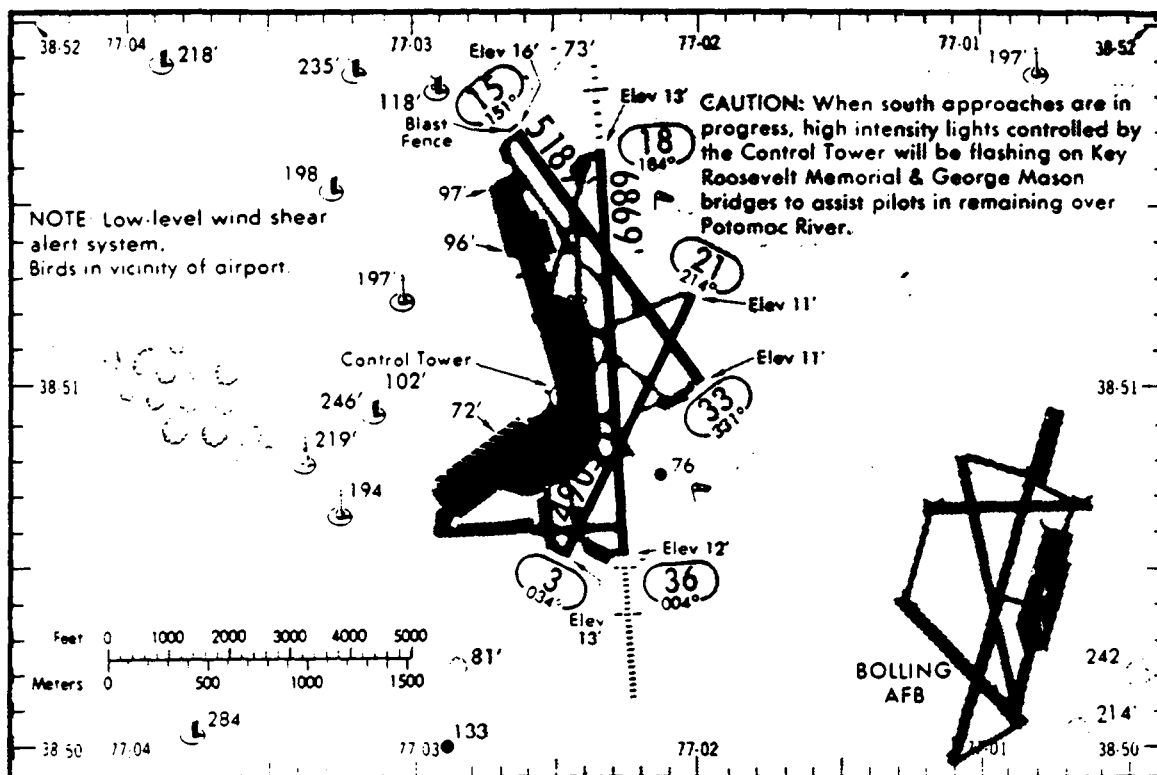
NEW GENERATION

34	<u>347AE</u>	System Elements	QTY REQ'D
BNEA	TD	Basic	1
BNEM	MP	Sensor Packages	2
BNER	RO	RLIM	-
07	<u>347AE</u>	Displays	
		ATCT	1
		TRACON	3
		NWS	-
		Other	-
RIC	TD	Total Displays	4

FY 93	REPLACE	R/W 34, 07
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WASHINGTON DC (DCA)

AEA



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EXISTING

36	<u>34716</u>
DCAT	TD
36	<u>347AE</u>
DCAR	RO

NEW GENERATION

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	1
RLIM	-
Displays	
ATCT	2
TRACON	3
NWS	2
Other	-
Total Displays	7

FY 93	REPLACE	R/W 36
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AEA

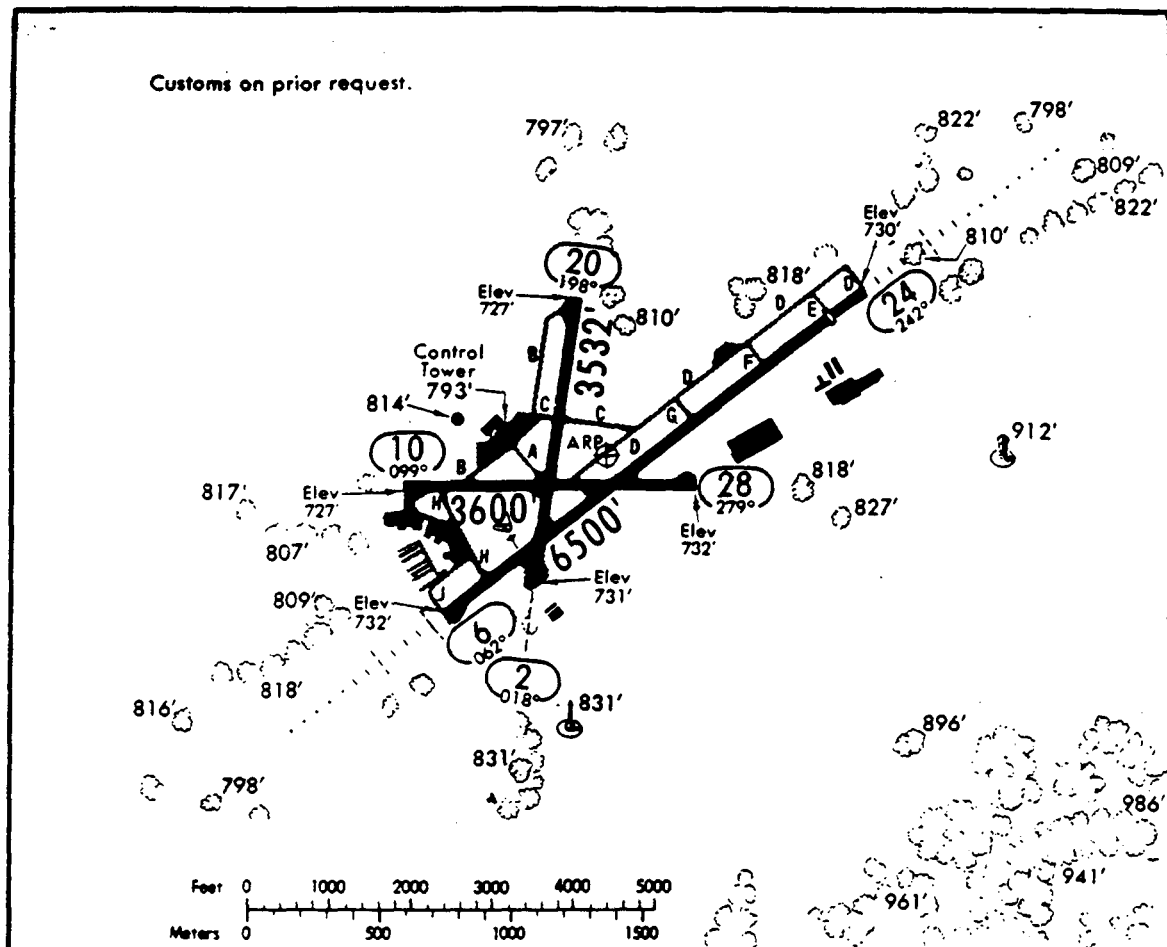


NEW GENERATION

FY 93	REPLACE	R/W 24
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ERIE PA (ERI)

AFA

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ERI TD

System ElementsQTY REQ'D

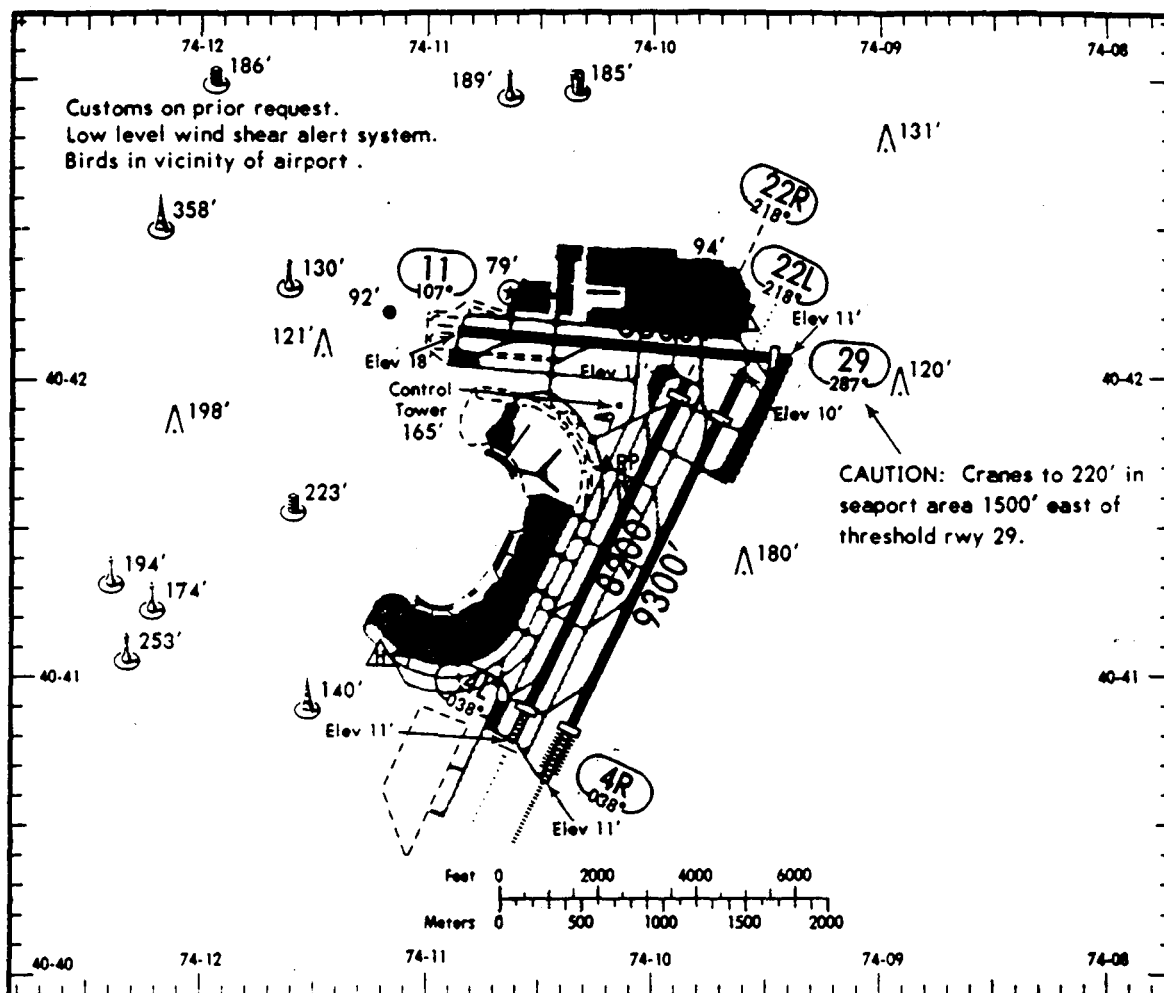
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	3	
TRACON	-	
NWS	-	
Other	-	

Total Displays	3
----------------	---

FY 93	REPLACE	R/W 06
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NEWARK NJ (EWR)

AEA



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EXISTING

NEW GENERATION

04R 347AE

EZA TD
EZAM MP
EXAR RO

System Elements

QTY REQ'D

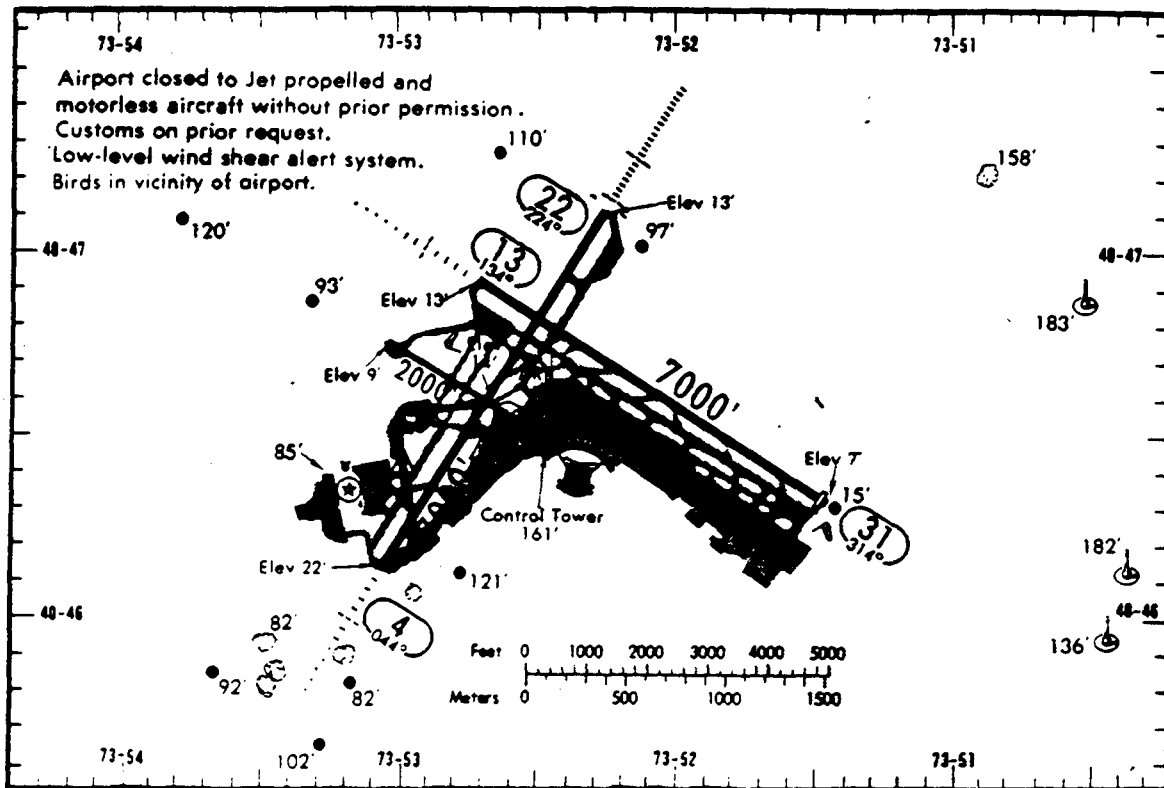
Basic	1
Sensor Packages	2
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	1
Other	-

Total Displays 3

FY 93	REPLACE	R/W 04R
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NEW YORK NY (LA GUARDIA - LGA)

AEA

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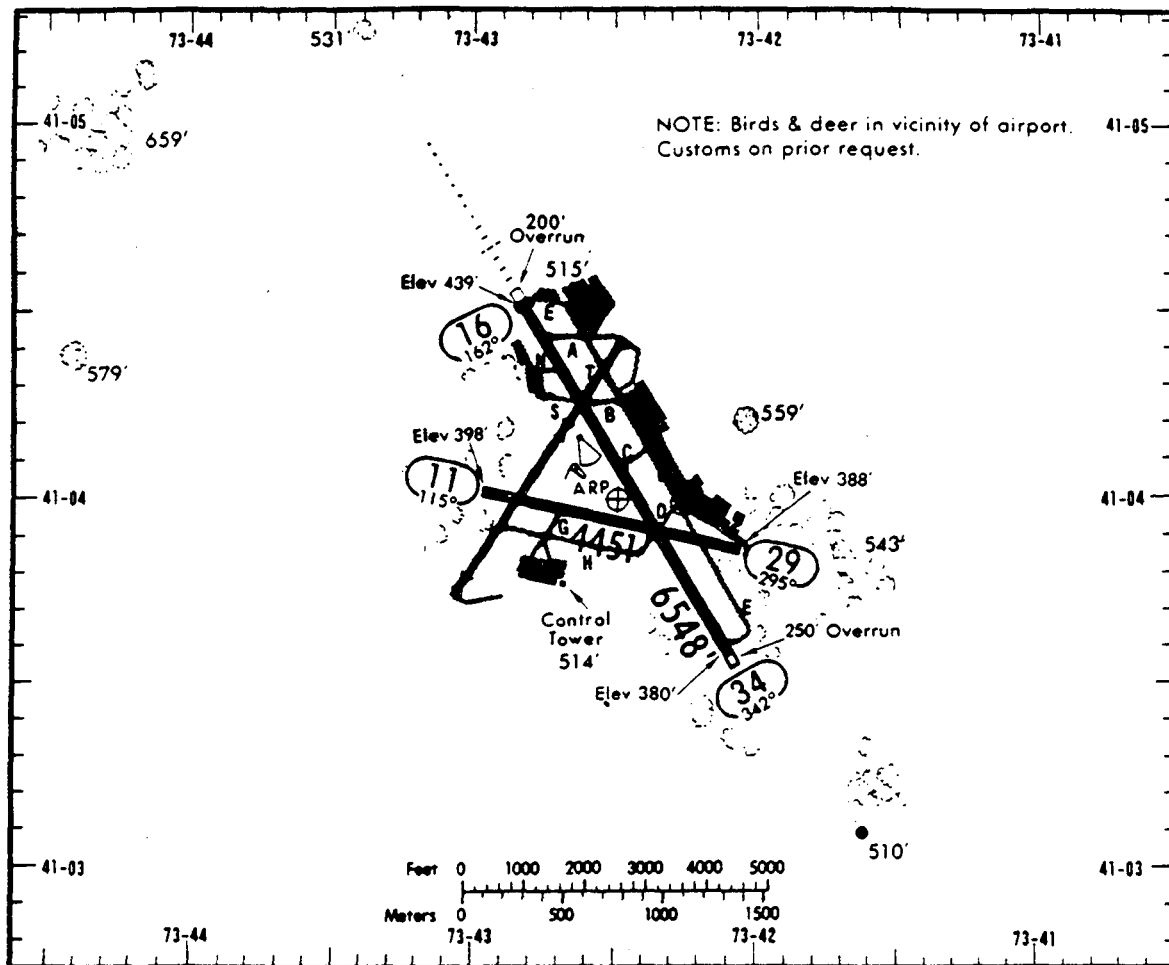
13	<u>347AE</u>
GDIR	RO
04	<u>347AE</u>
LGA	TD
22	<u>347AE</u>
URD	TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		2
RLIM		1
Displays		
ATCT	2	
TRACON	-	
NWS	1	
Other	-	
Total Displays		3

FY 93	REPLACE	R/W 04/22, 13
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WHITE PLAINS NY (HPN)

AEA



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EXISTING

NEW GENERATION

16 347AE

HPN TD

System Elements

QTY REQ'D

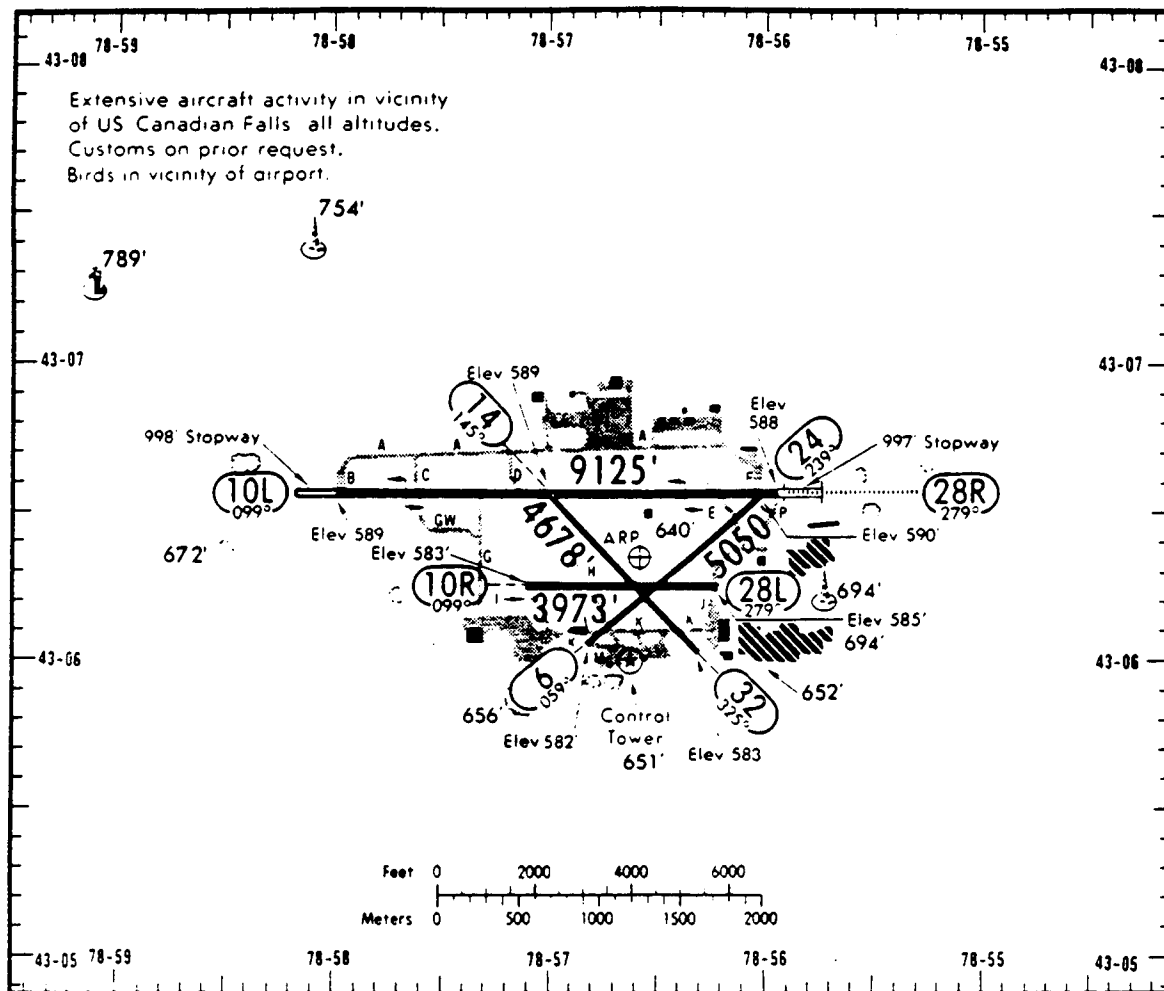
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	-
Other	-

Total Displays 2

FY 93	REPLACE	R/W 16
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NIAGARA FALLS (IAG)

AEA

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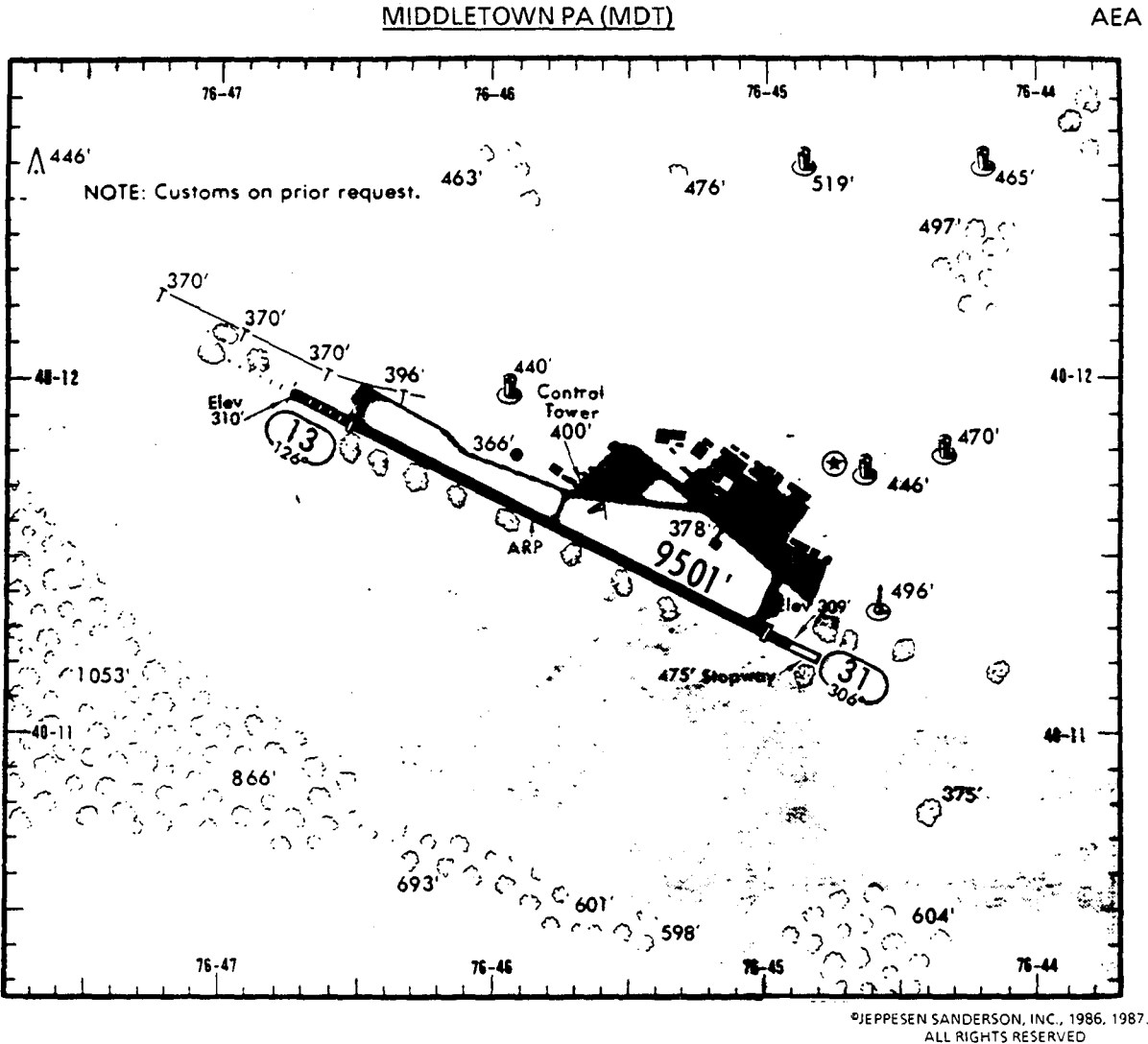
IAG TD

System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	-
Other	-

Total Displays	2
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FY 93	REPLACE	R/W 28R
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EXISTING

NEW GENERATION

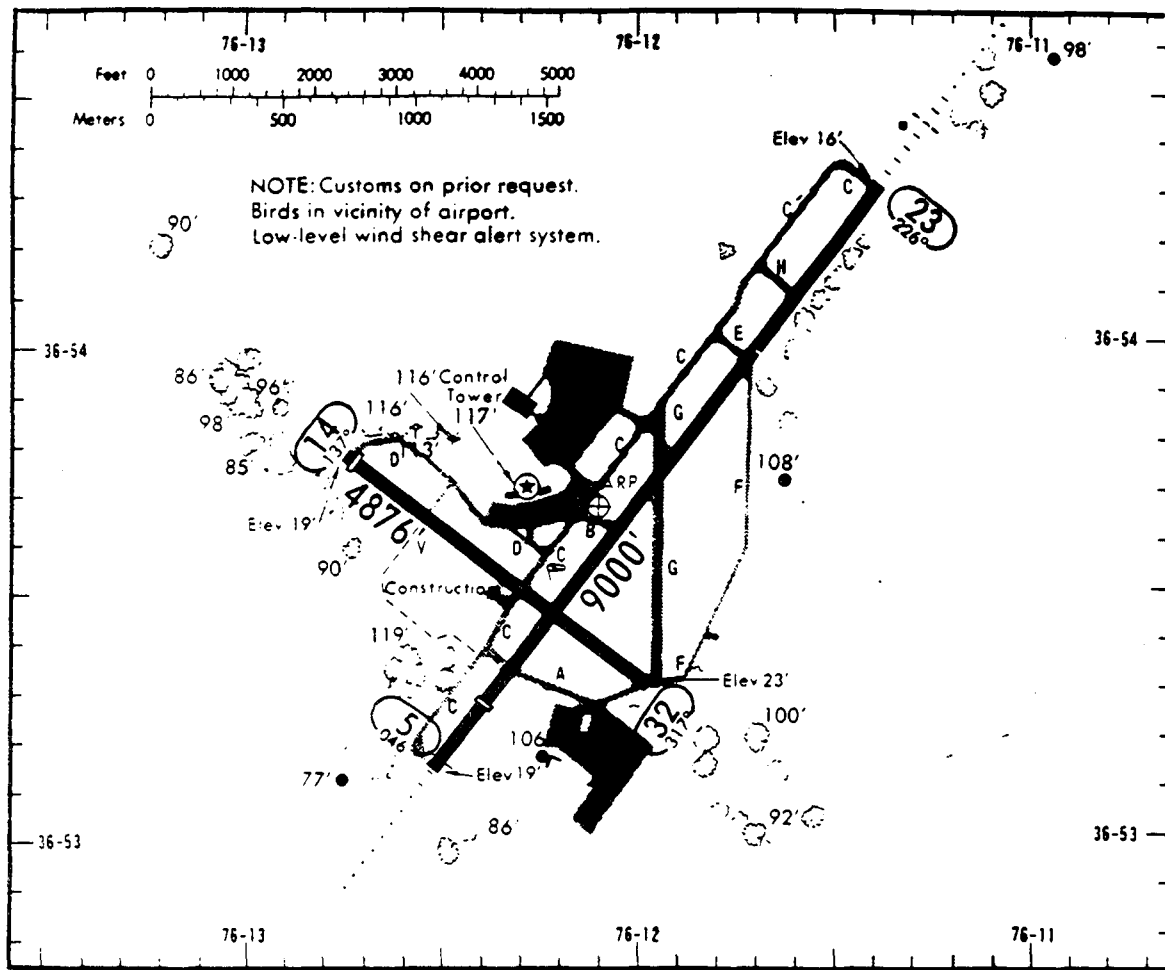
13 347AE
MDT TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	1	
NWS	-	
Other	-	
Total Displays		2

FY 93	REPLACE	R/W 13
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NORFOLK VA (ORF)

AEA

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ORF TD

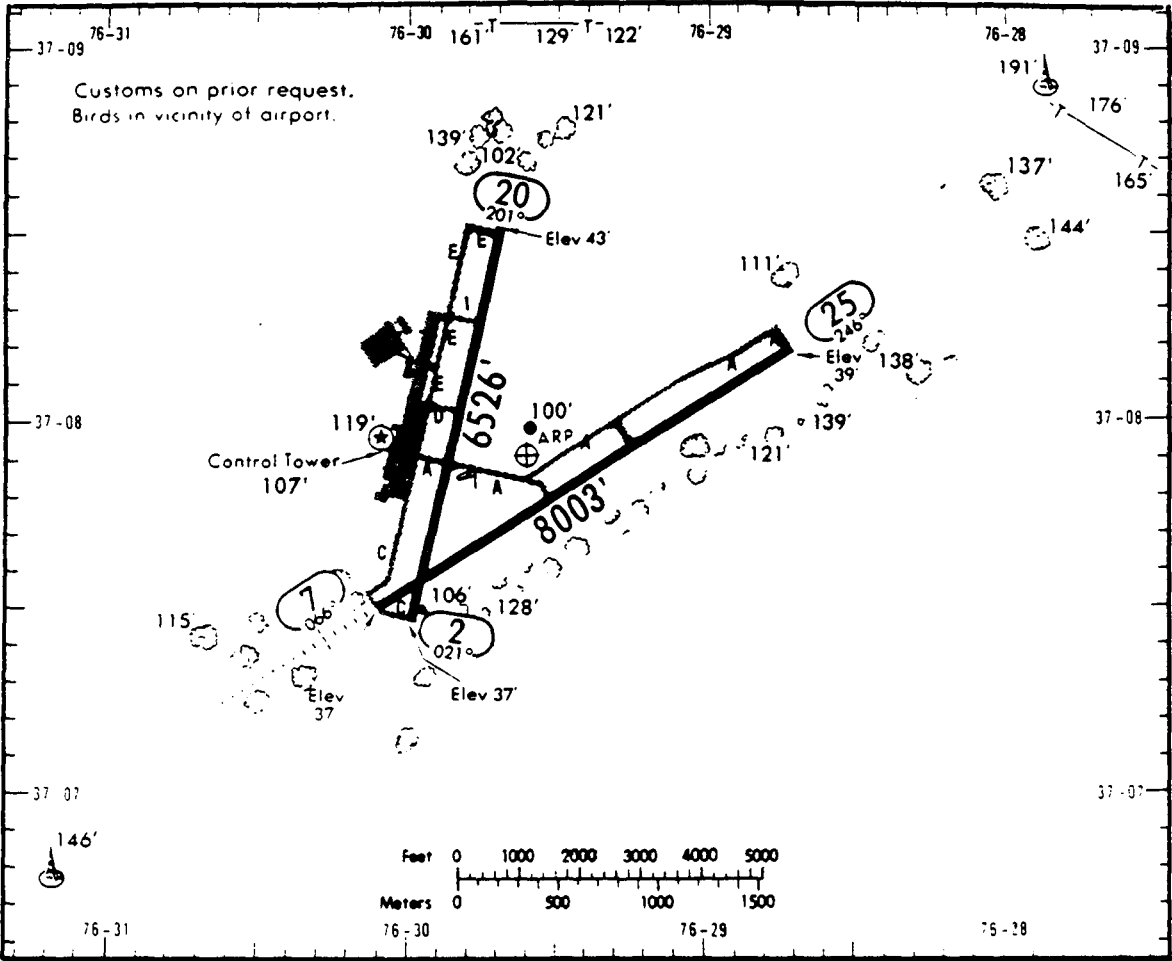
System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	2
NWS	1
Other	-
Total Displays	4

FY 93	REPLACE	R/W 05
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NEWPORT NEWS VA (PHF)

AEA



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NEW GENERATION

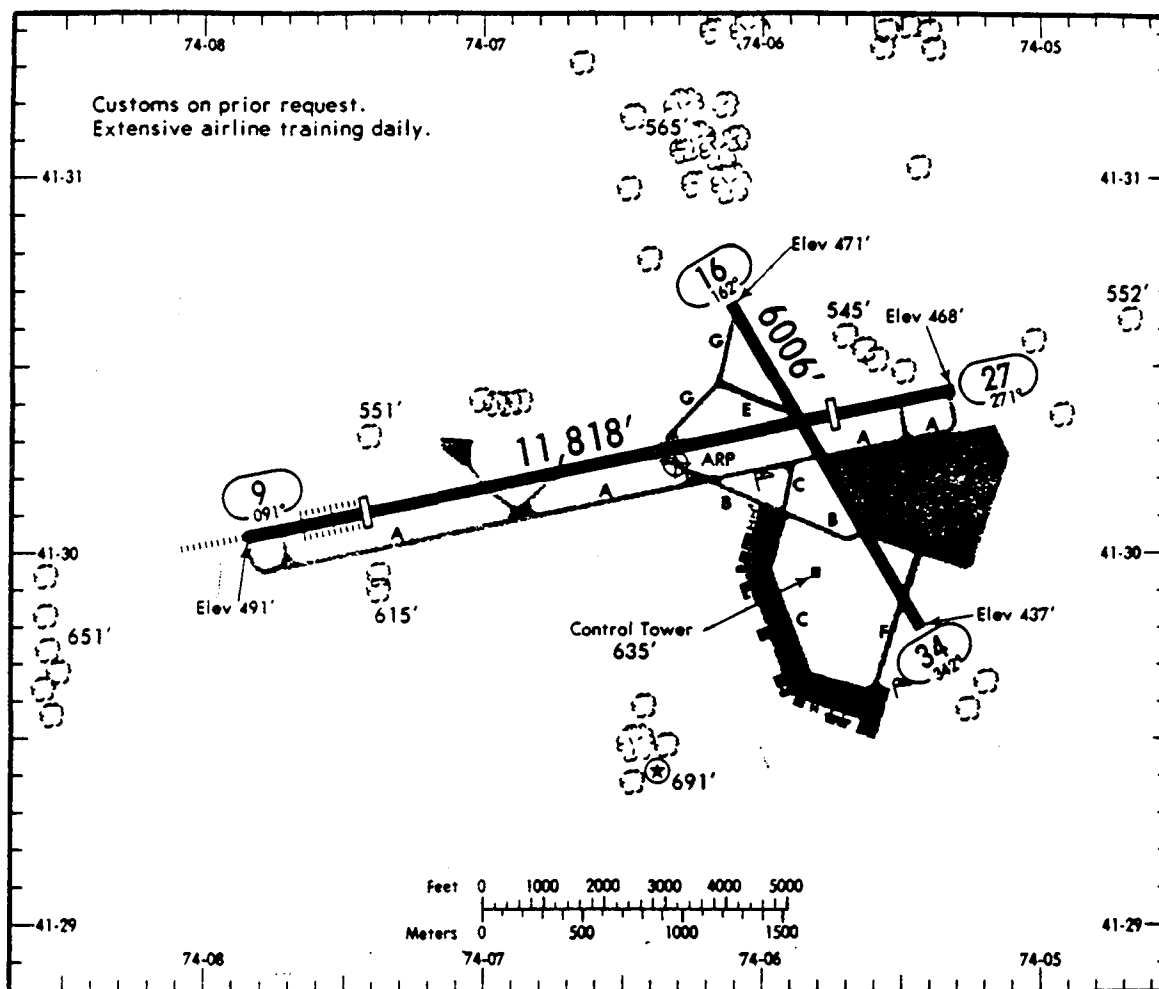
07 347AE
PHF TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 93	REPLACE	R/W 07
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STEWART AIRPORT NY (SWF)

AEA



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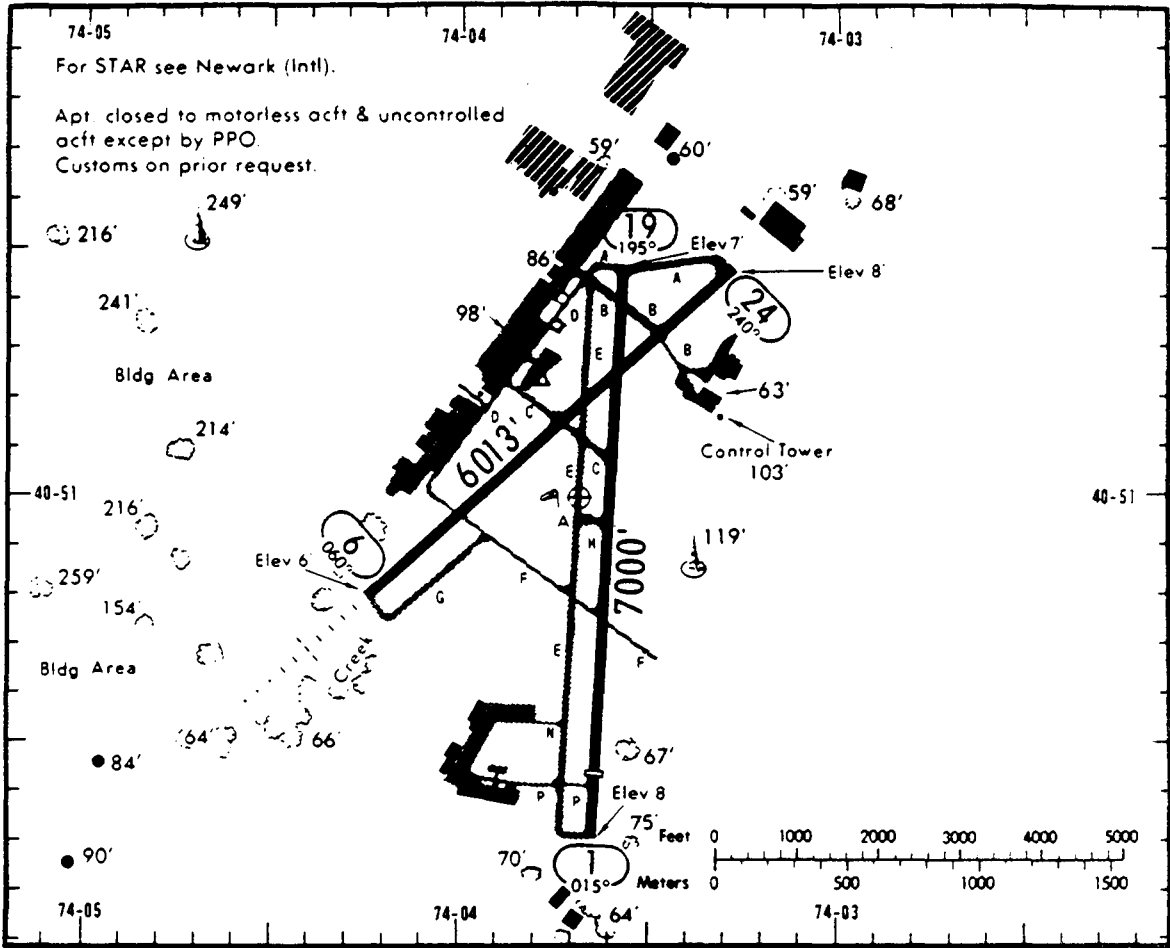
EXISTINGNEW GENERATION

09	<u>347AE</u>	<u>System Elements</u>	<u>QTY REQ'D</u>
SWFM	MP	Basic	1
SWFR	RO	Sensor Packages	2
SWFT	TD	RLIM	-
		Displays	
		ATCT	3
		TRACON	-
		NWS	-
		Other	-
		Total Displays	3

FY 93	REPLACE	R/W 09
-------	---------	--------

TETERBORO NJ (TEB)

AEA



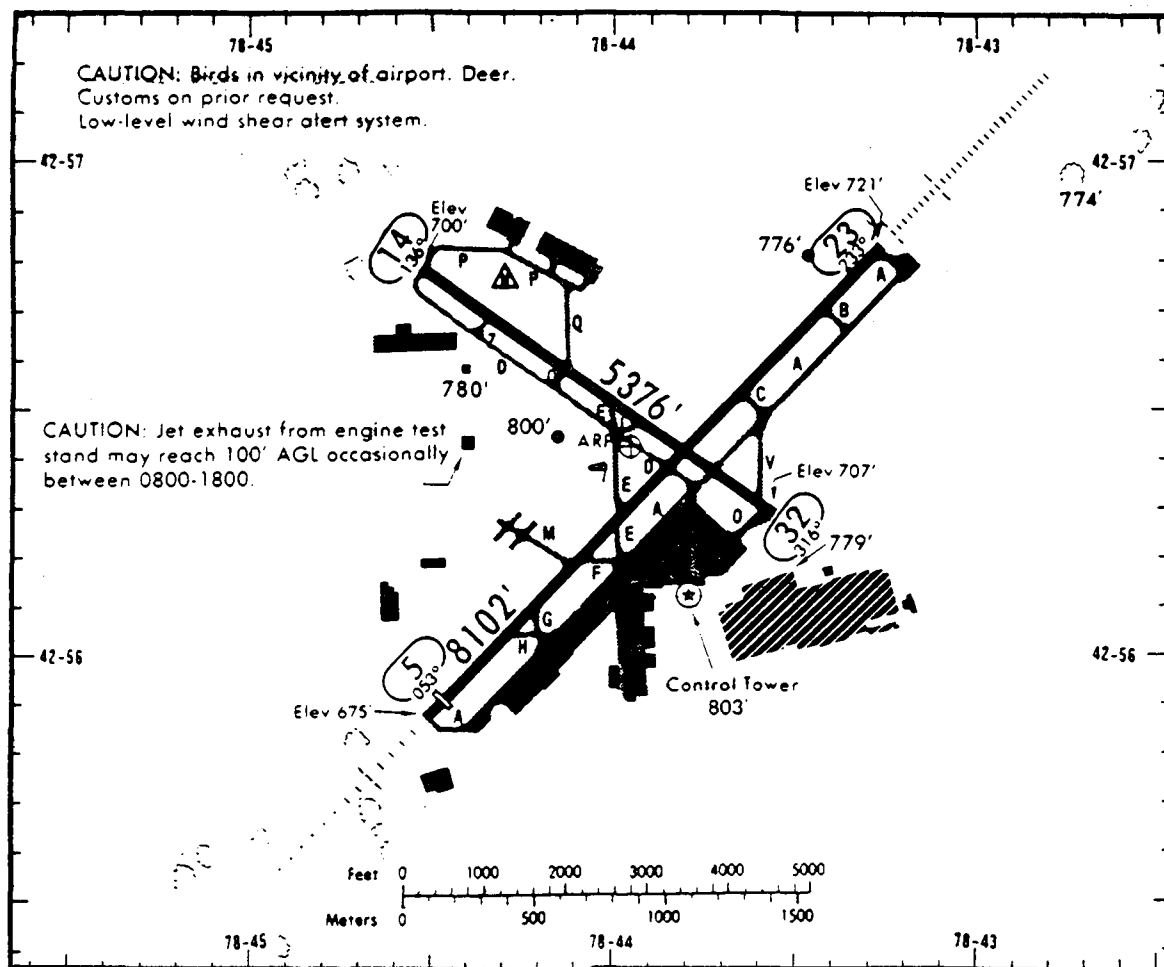
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EXISTING

NEW GENERATION

06	347AE	System Elements	QTY REQ'D
TEB	TD	Basic	1
		Sensor Packages	-
		RLIM	-
		Displays	
		ATCT	1
		TRACON	-
		NWS	-
		Other	-
		Total Displays	1

FY 93	REPLACE	R/W 06
-------	---------	--------

BUFFALO NY (BUF)AEA
Appendix 3©JEPPESEN SANDERSON, INC., 1986, 1987.
ALL RIGHTS RESERVEDEXISTINGNEW GENERATION23 347AE

BUF TD

05 347AE

GBI TD

23 347AE

BUFM MP

System ElementsQTY REQ'D

Basic	1
Sensor Packages	2
RLIM	-
Displays	
ATCT	1
TRACON	2
NWS	1
Other	-

Total Displays 4

FY 93	REPLACE	R/W 5/23
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APPENDIX 4. AGL SITE LOCATIONS

AIRPORT LOCATION (LOCATION IDENTIFIER)

RESERVED FOR JEPPESEN
AIRPORT LAYOUT

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ALL RIGHTS RESERVED

EXISTING

Runway - RVR Model No.

RVR Location IDENT. TD, MP, RO
(AS APPLICABLE)

OTHER RVRs
(AS APPLICABLE)

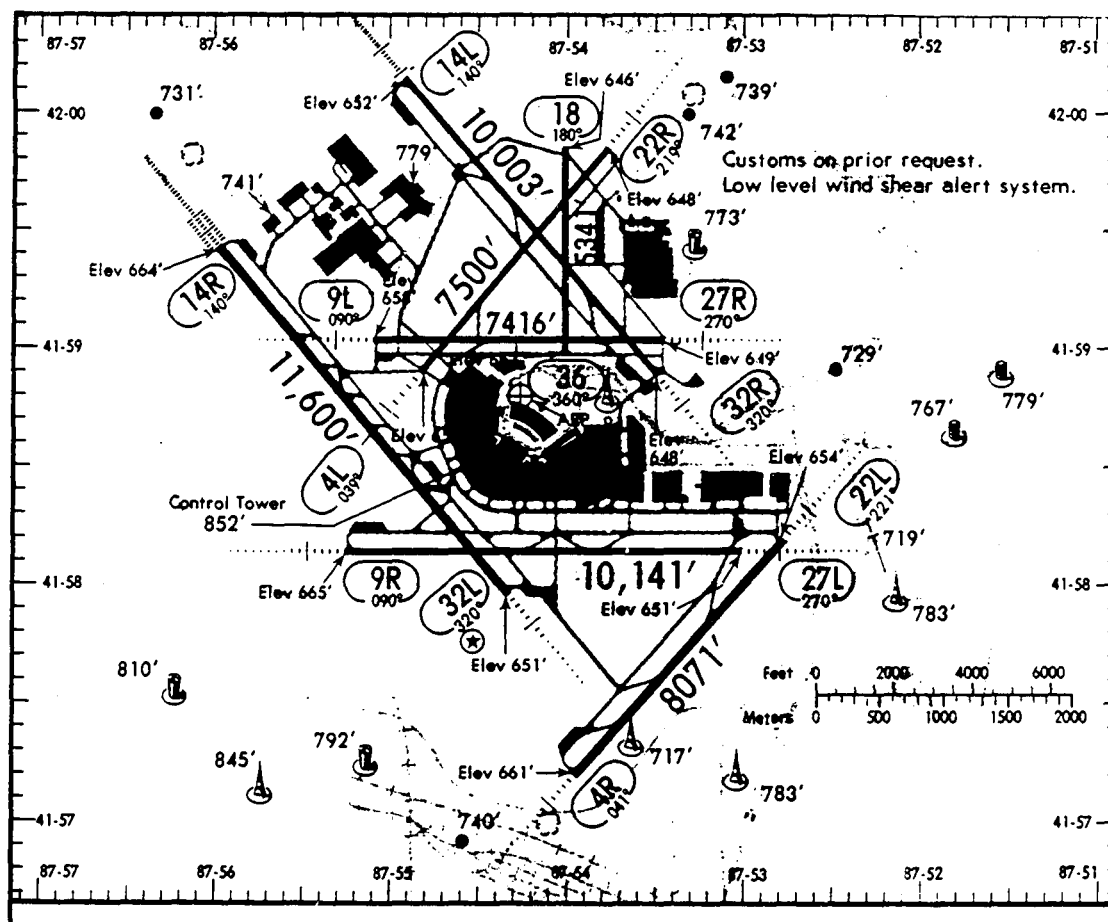
NEW GENERATION

Runway Visibility System (1)	1
Sensor Package (2)	5
RLIM	1
Displays	
ATCT (a)	
TRACON (b)	
NWS (3) (c)	
Other (d)	
Total Displays (a + b + c + d)	

- (1) Basic RVR System, Only One per Airport Location
- (2) Number of Existing RVR Sensors (minus 1)
- (3) Graphic Recorder Quantities

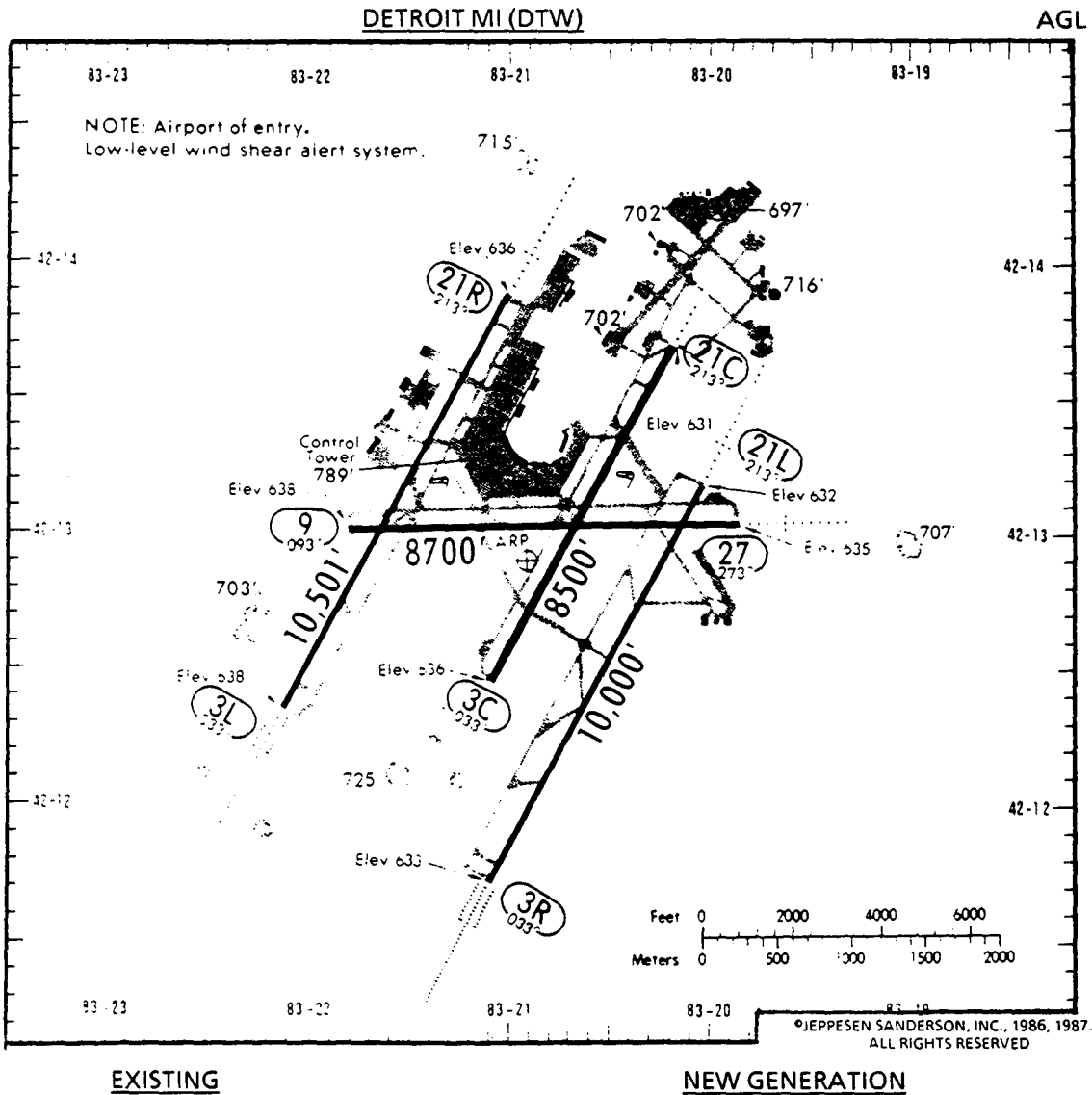
CHICAGO IL (ORD)

AGL

PJEPPSEN SANDERSON, INC., 1986, 1987.
ALL RIGHTS RESERVEDEXISTINGNEW GENERATION

				System Elements	QTY REQ'D
27R	<u>347AE</u>	ORD	TD		
IAC	TD	ORDA	MP		
09L	<u>347AE</u>	32L	<u>347AE</u>	Basic	2
JAV	TD	RVG	TD	Sensor Packages	10
27L	<u>374AE</u>			RLIM	4
TSL	TD			Displays	
09R	<u>347AE</u>			ATCT	12
MED	TD			TRACON	13
32R	<u>347AE</u>			NWS	2
IDW	TD			Other	-
14L	<u>347AE</u>				
OHA	TD				
OHAA	MP			Total Displays	27

FY 84	CAT IIIB	R/W 14R & 14L
FY 84	ESTABLISH	R/W 04R
FY 84	ESTABLISH	R/W 22R

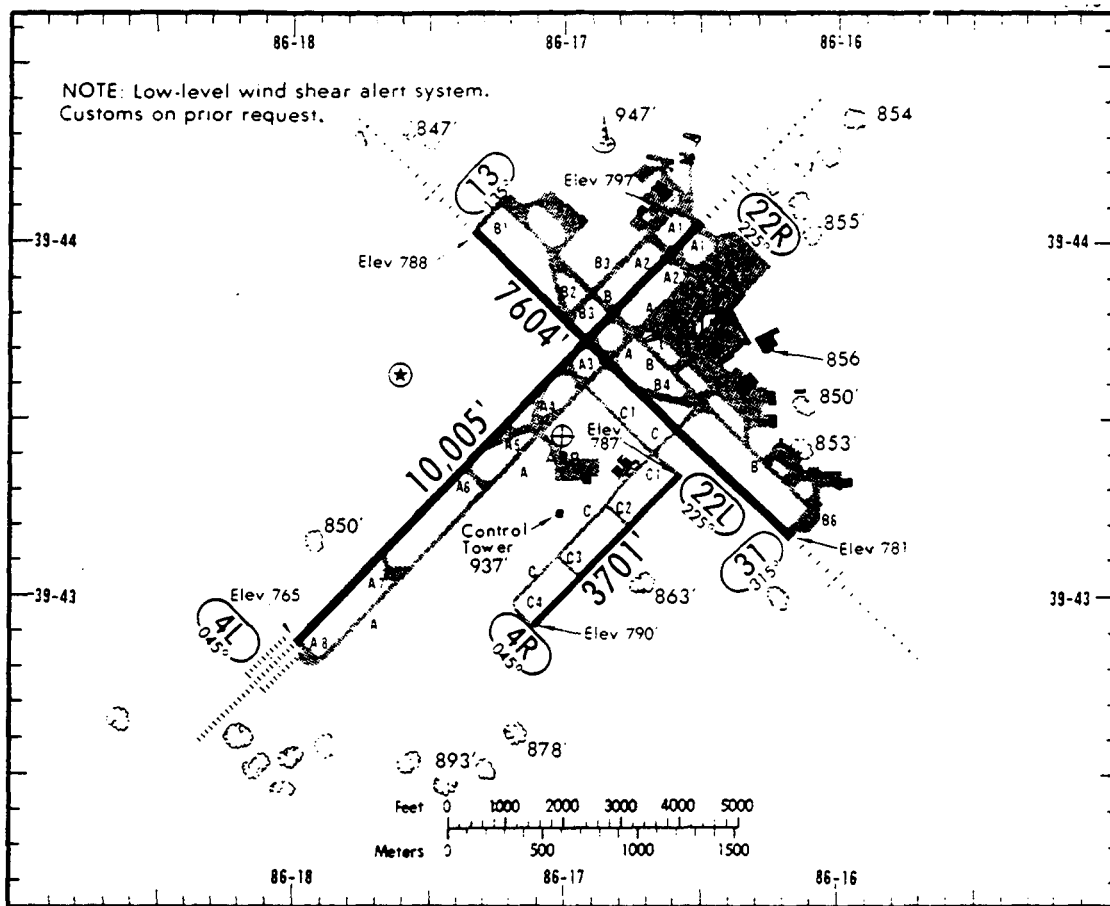


		<u>System Elements</u>	<u>QTY REQ'D</u>
03L	<u>347AE</u>		
DTW	TD	Basic	1
DTWA	MP	Sensor Packages	5
DTWB	RO	RLIM	1
		Displays	
03R	<u>347AE</u>	ATCT	4
		TRACON	4
HUU	TD	NWS	1
HUUA	MP	Other	-
HUUB	RO		
		Total Displays	9

FY 84	CAT IIIb	R/W 03L
-------	----------	---------

INDIANAPOLIS IN (IND)

AGL



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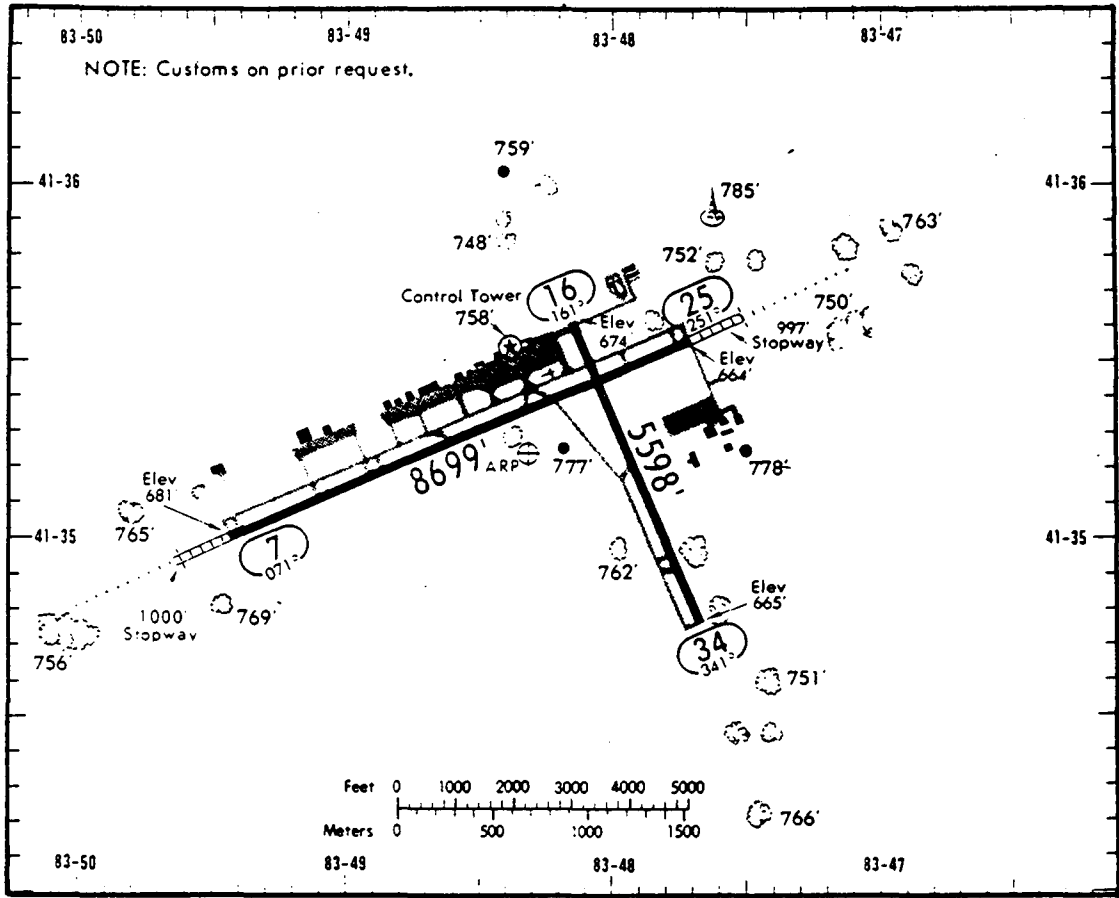
EXISTINGNEW GENERATION

		<u>System Elements</u>	<u>QTY REQ'D</u>
31	<u>347AE</u>	Basic	1
COA	TD	Sensor Packages	4
04L	<u>347AE</u>	RLIM	1
IND	TD	Displays	
INDA	MP	ATCT	4
INDR	RO	TRACON	4
		NWS	1
		Other	-
		Total Displays	9

FY 84	ESTABLISH	R/W 13
-------	-----------	--------

TOLEDO OH (TOL)

AGL



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EXISTING

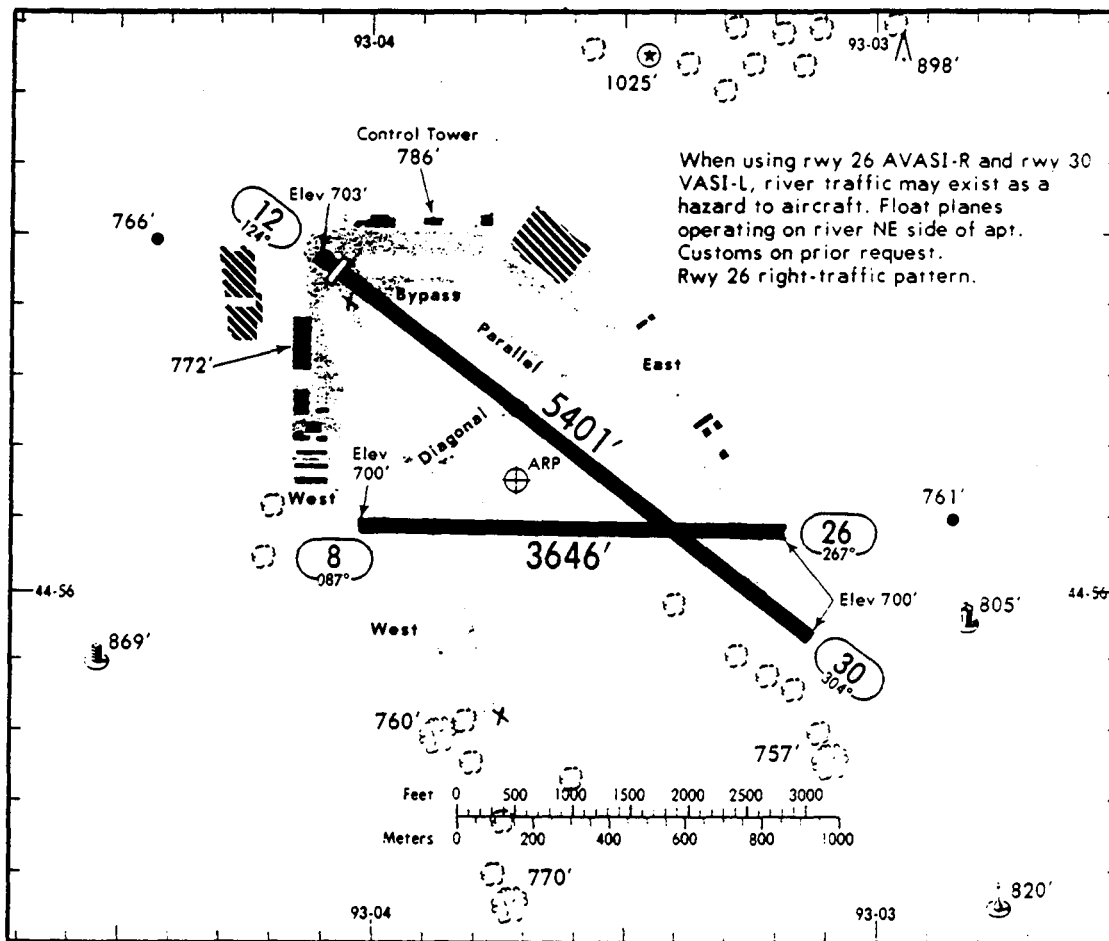
NEW GENERATION

		<u>System Elements</u>	<u>QTY REQ'D</u>
07	<u>347AE</u>	Basic	1
TOL	TD	Sensor Packages	1
		RLIM	-
		Displays	
		ATCT	3
		TRACON	3
		NWS	1
		Other	-
		Total Displays	7

FY 84	ESTABLISH	R/W 25
-------	-----------	--------

ST. PAUL MN (STP)

AGL



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EXISTINGNEW GENERATION

NONE

System ElementsQTY REQ'D

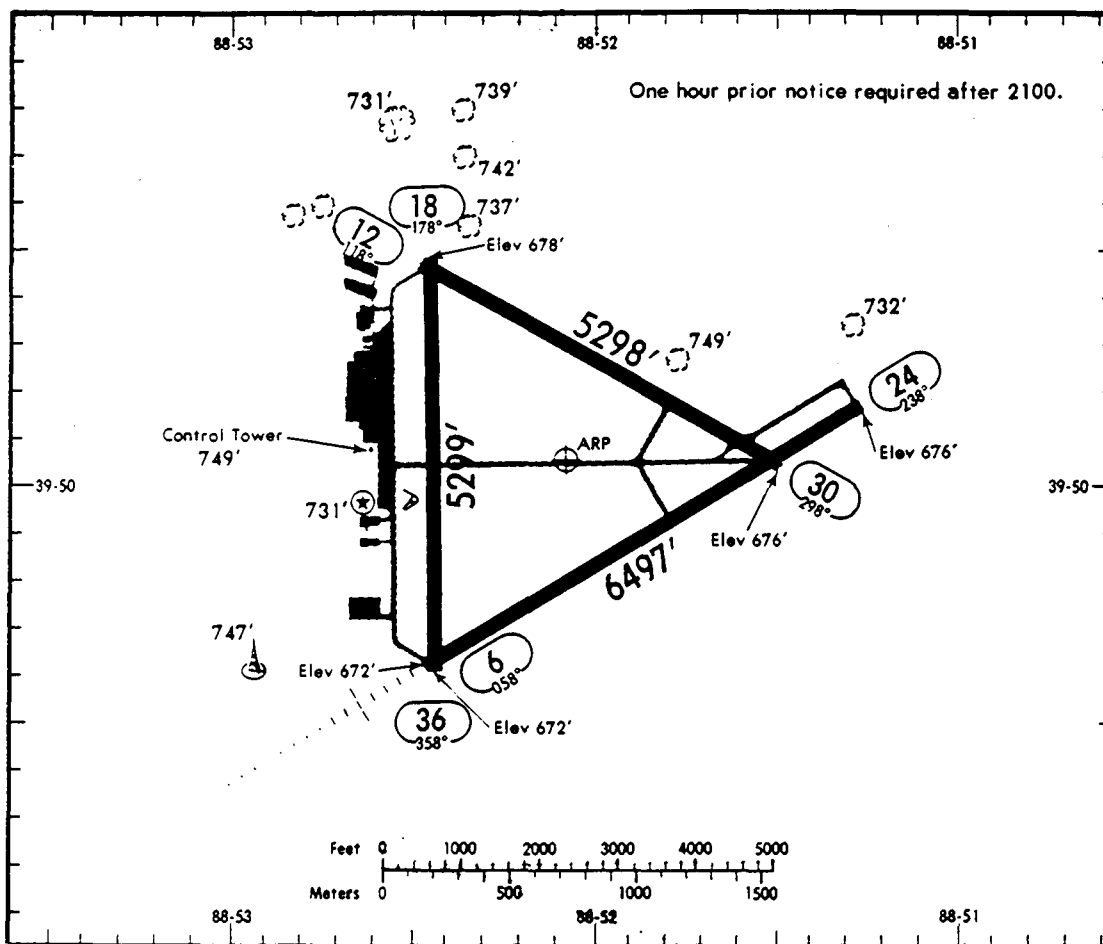
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 85	ESTABLISH	R/W 30
-------	-----------	--------

8/10/88

DECATUR IL (DEC)

AGL



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EXISTING

NEW GENERATION

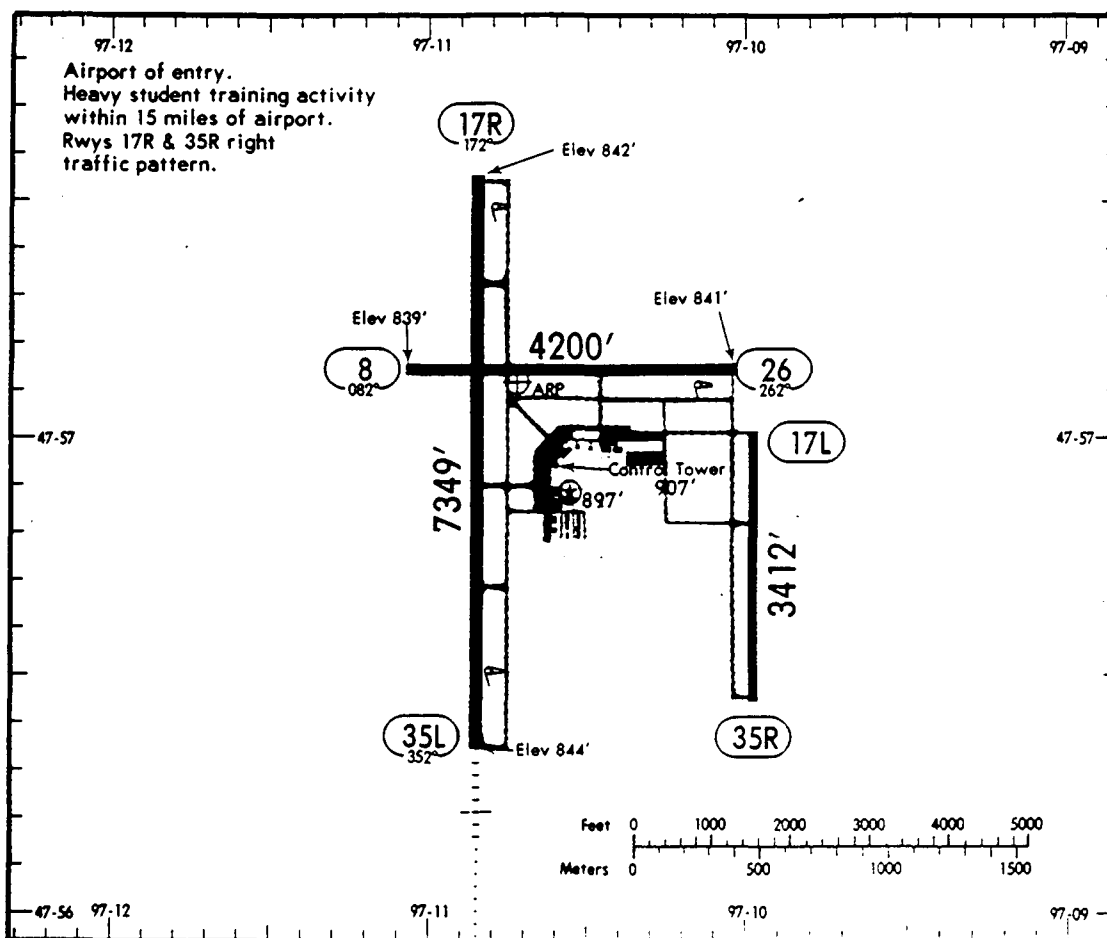
NONE

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 85	ESTABLISH	R/W 06
-------	-----------	--------

GRAND FORKS ND (GFK)

AGL



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EXISTINGNEW GENERATION

NONE

System ElementsQTY REQ'D

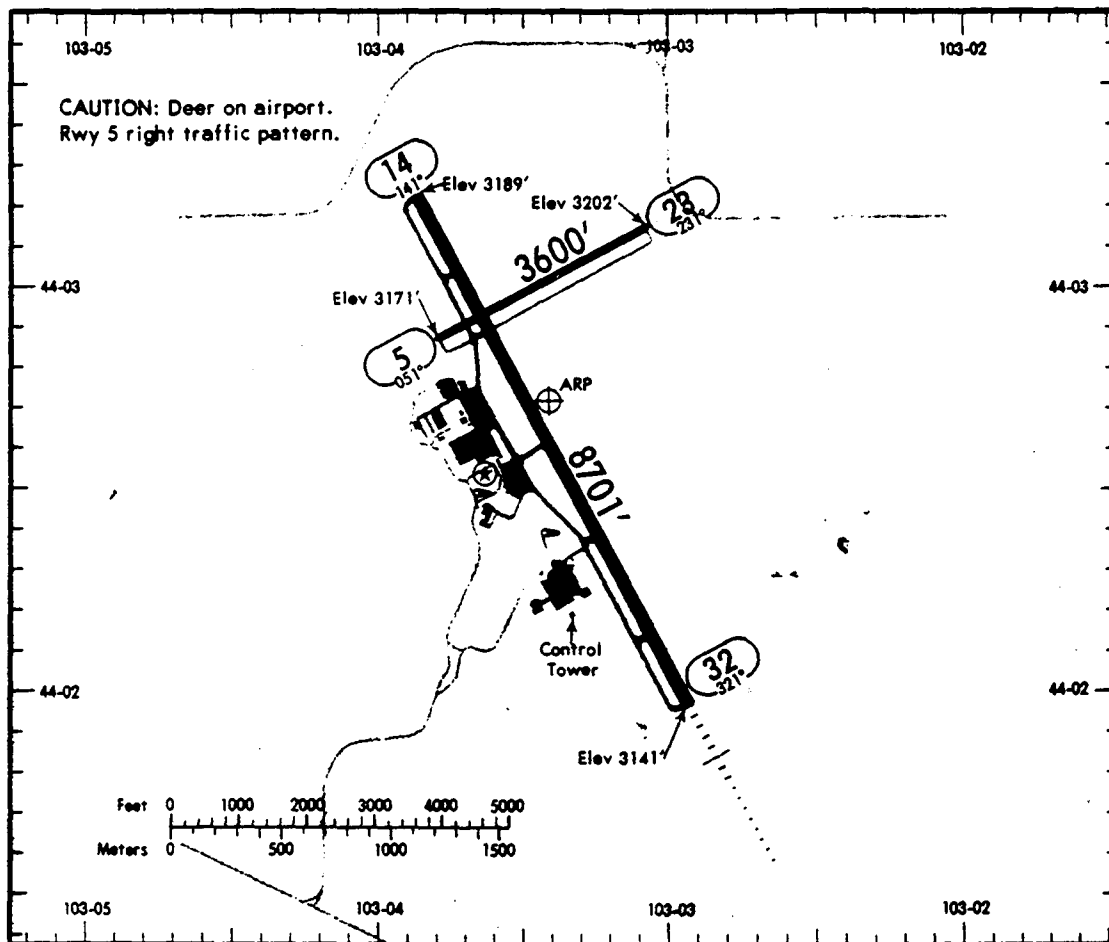
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 85	ESTABLISH	R/W 35
-------	-----------	--------

8/10/88

RAPID CITY SD (RAP)

AGL



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EXISTING

NEW GENERATION

NONE

System Elements

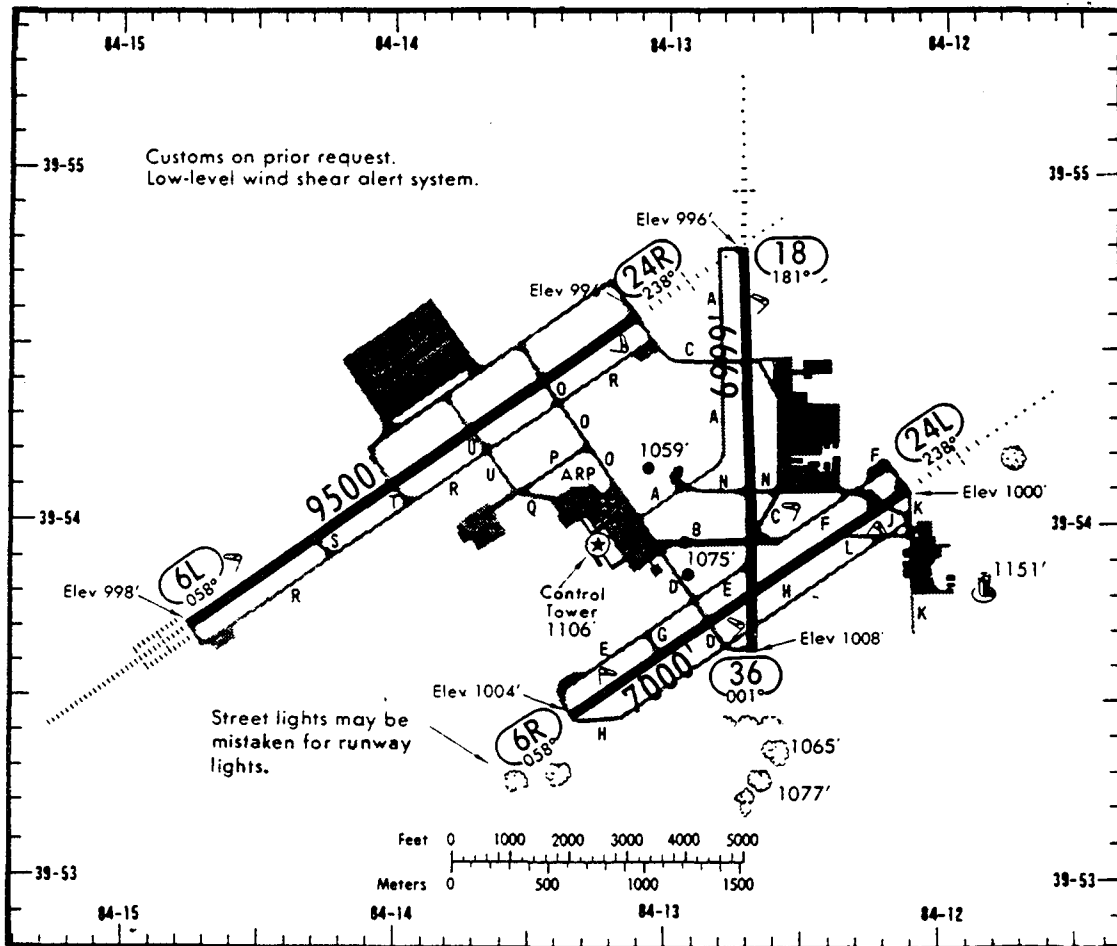
QTY REQ'D

Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 85	ESTABLISH	R/W 32
-------	-----------	--------

DAYTON OH (DAY)

AGL



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EXISTINGNEW GENERATION06L 347AC

ATD TD
ATDB RO

06L 347AD

ATDA MP

System ElementsQTY REQ'D

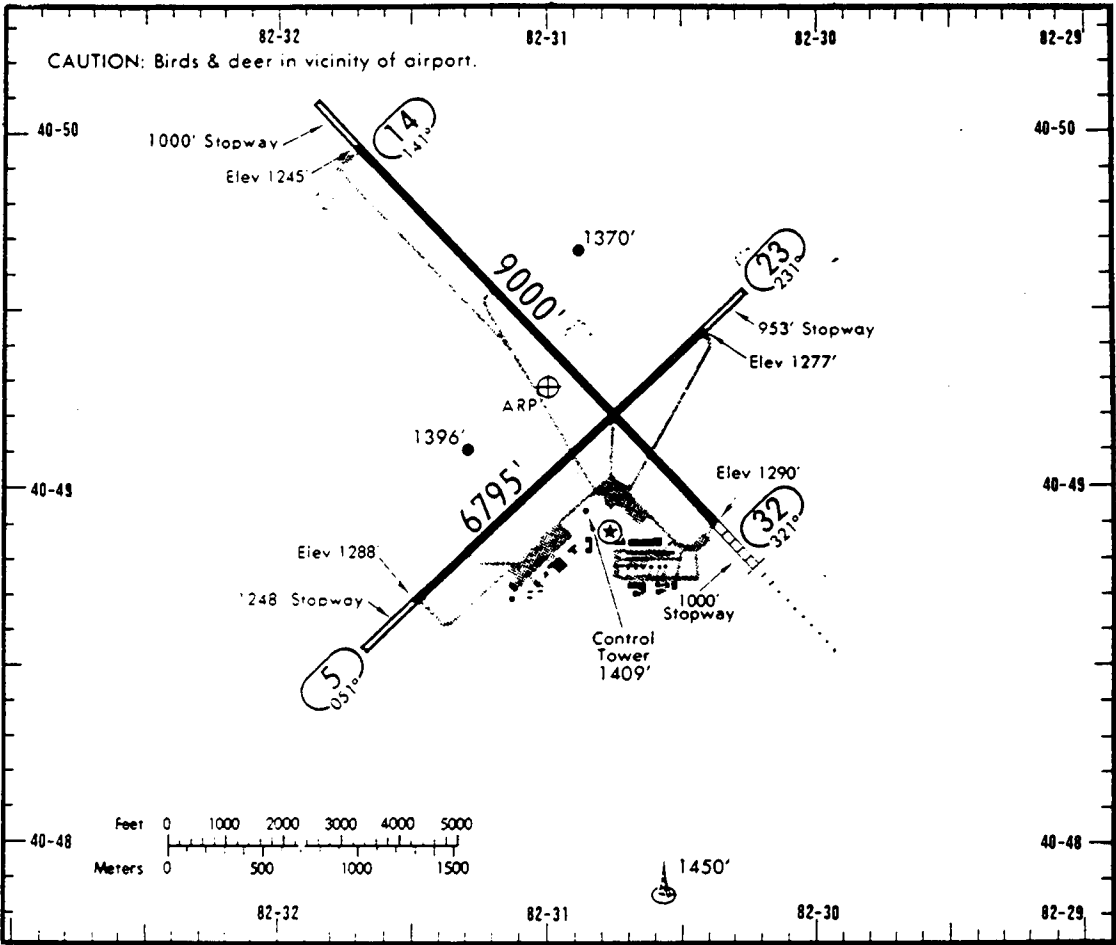
Basic	1
Sensor Packages	2
RLIM	-
Displays	
ATCT	2
TRACON	2
NWS	-
Other	-

Total Displays	4
----------------	---

FY 85	REPLACE	R/W 06L
-------	---------	---------

MANSFIELD OH (MFD)

AGL



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EXISTING

NEW GENERATION

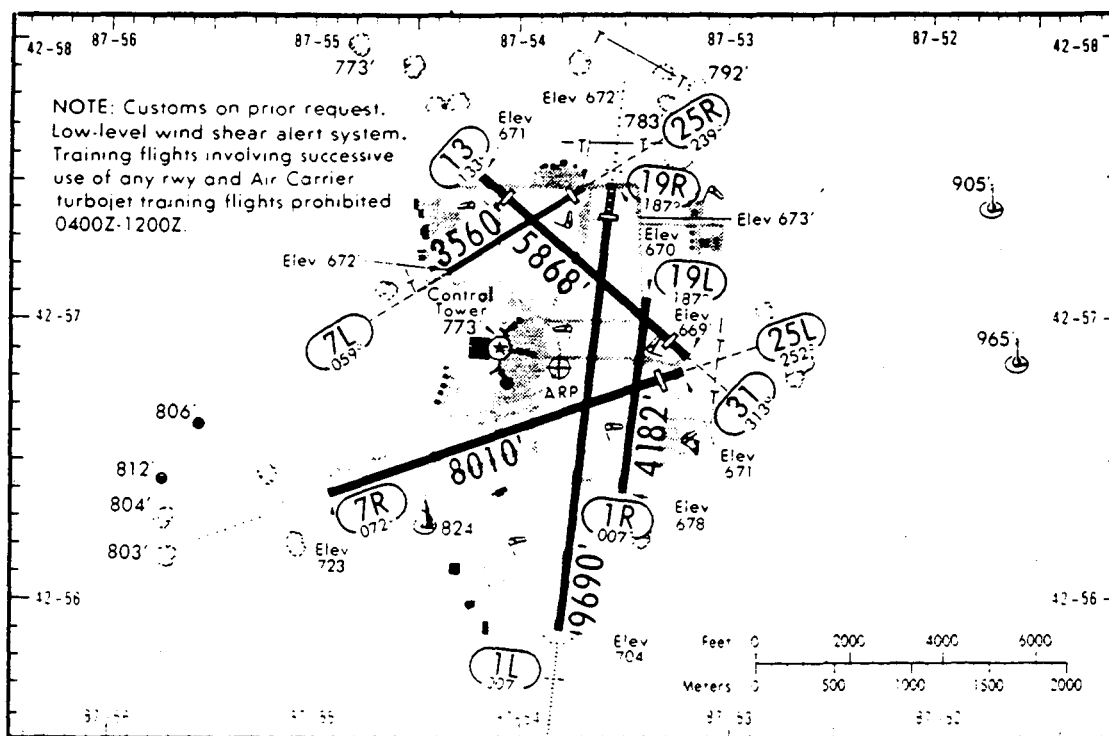
32 347AC
MFD TD

System Elements	QTY REQ'D
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	1
NWS	-
Other	-
Total Displays	2

FY 85	REPLACE	R/W 32
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MILWAUKEE WI (MKE)

AGL



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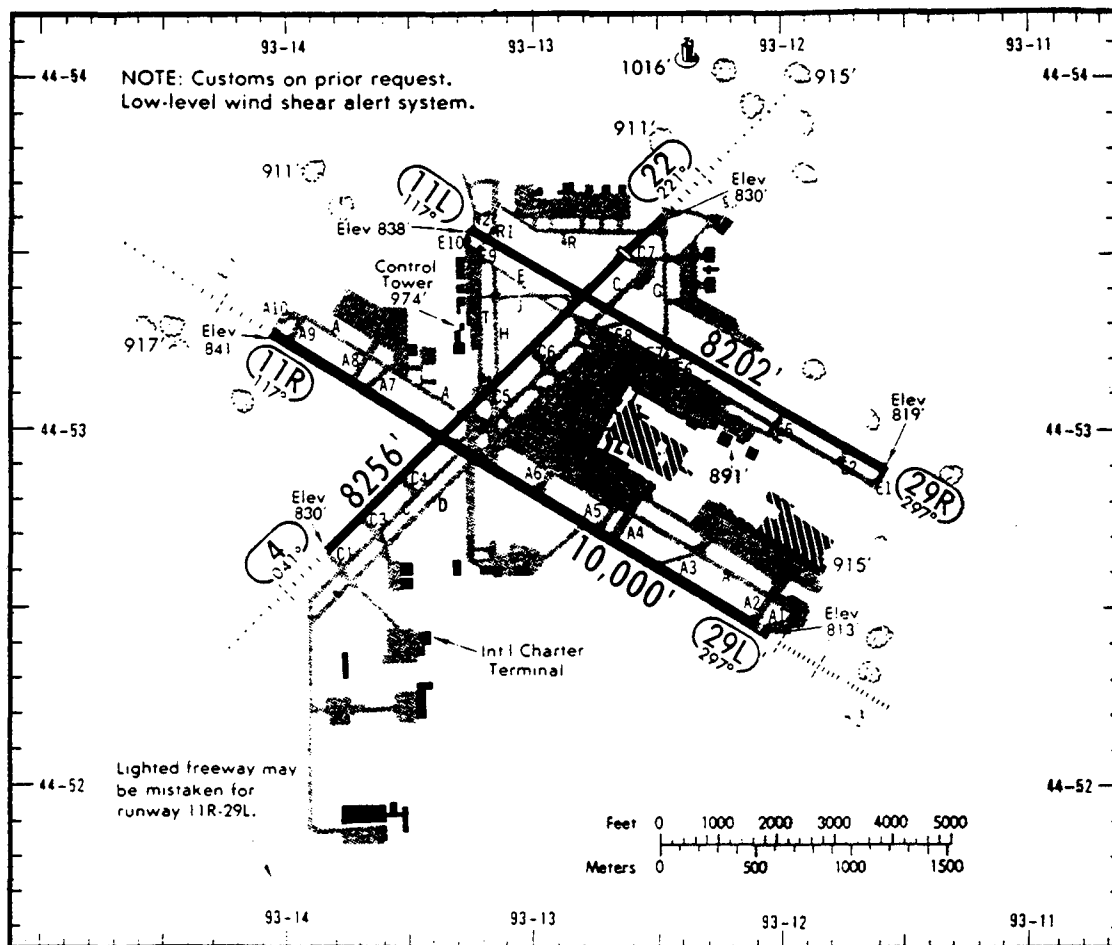
EXISTINGNEW GENERATION

07R	<u>347AC</u>	01L	<u>347AE</u>	System Elements	QTY REQ'D
GMF	TD	MKE	TD	Basic	1
				Sensor Packages	3
01L	<u>347AC</u>			RLIM	1
MKEA	RO			Displays	
				ATCT	2
				TRACON	2
01L	<u>347AD</u>			NWS	1
MKEB	MP			Other	-
				Total Displays	5

FY 85	REPLACE	R/W 01L/07R
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MINNEAPOLIS MN (MSP)

AEA



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EXISTING

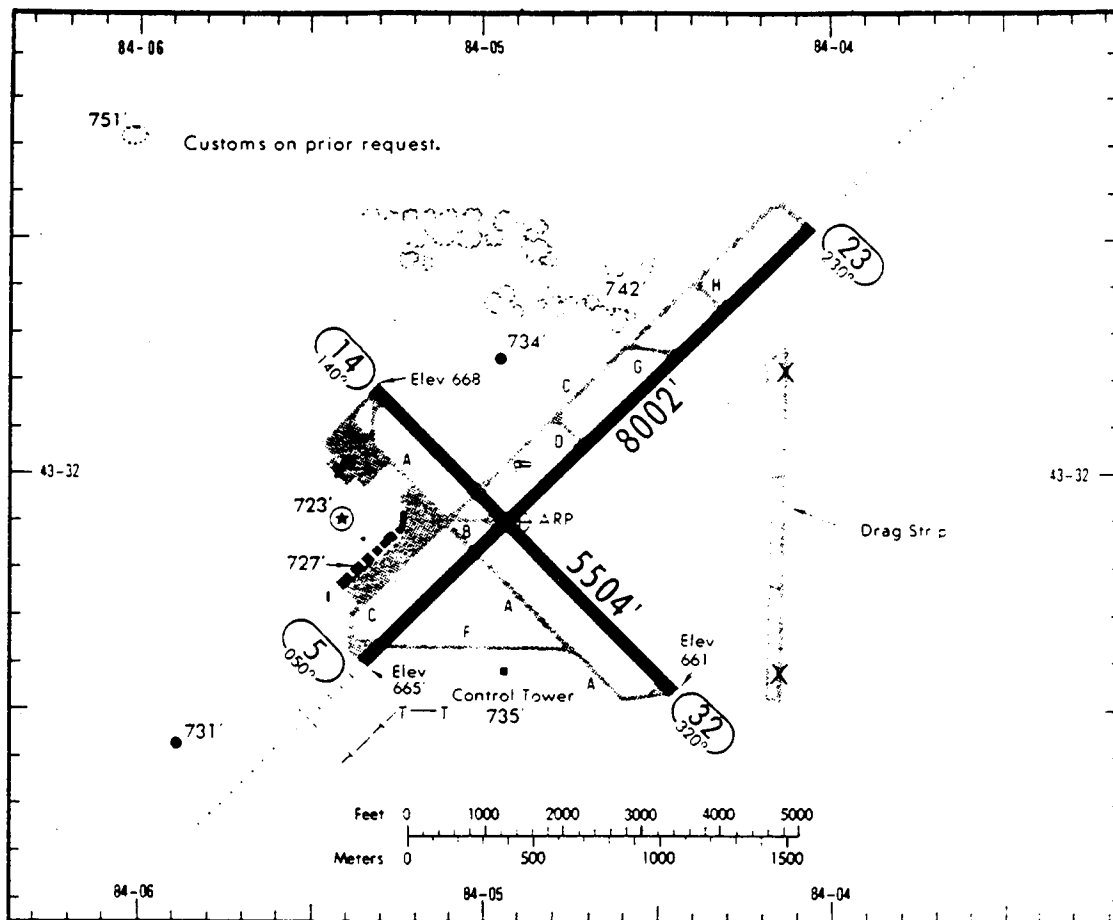
NEW GENERATION

		<u>System Elements</u>		<u>QTY REQ'D</u>
04	<u>347AC</u>	Basic		1
APL	TD	Sensor Packages		3
29L	<u>347AC</u>	RLIM		1
MSP	TD	Displays		
MSPA	RO	ATCT	3	
		TRACON	2	
		NWS	1	
		Other	-	
29L	<u>347AD</u>			
MSPB	MP	Total Displays		6

FY 85	REPLACE	R/W 04/29L
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SAGINAW MI (MBS)

AGL

PIEPPESEN SANDERSON, INC., 1986, 1987.
ALL RIGHTS RESERVEDEXISTINGNEW GENERATION05 347AC

MBS TD

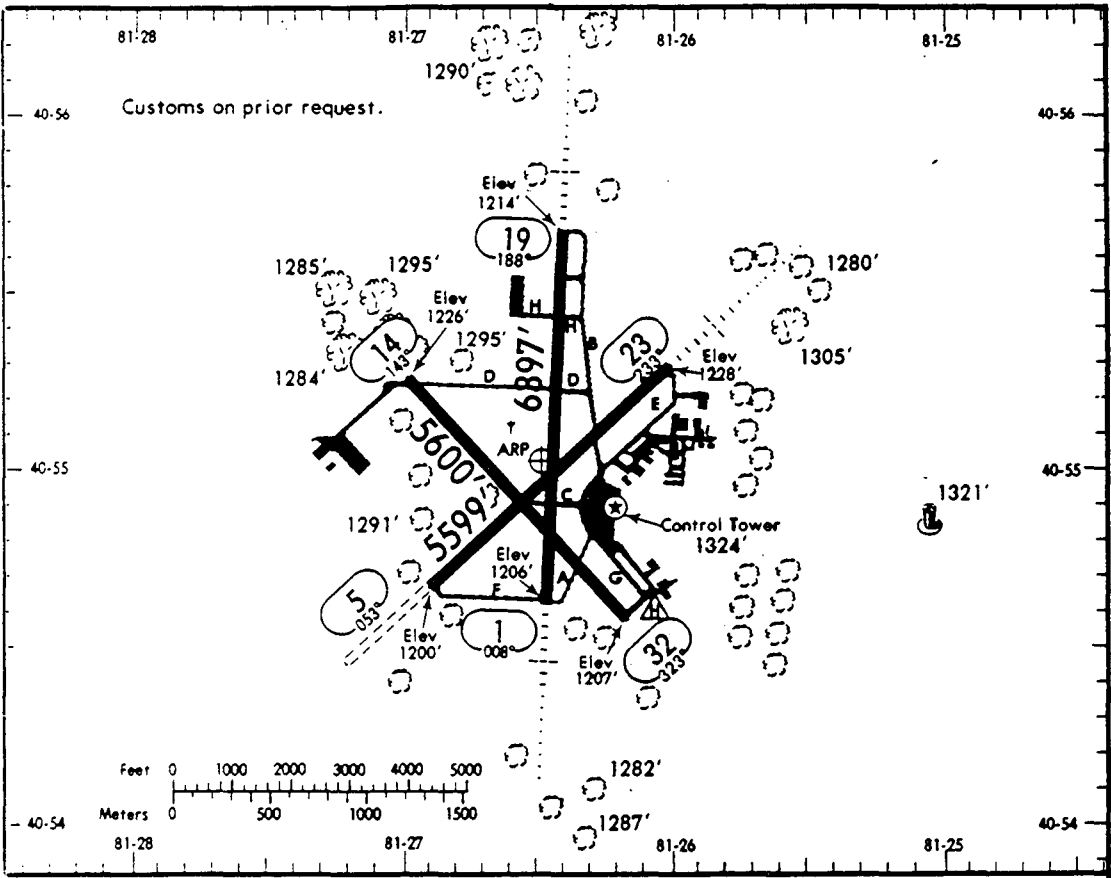
System ElementsQTY REQ'D

Basic	1
Sensor Packages	1
RLIM	-
Displays	
ATCT	3
TRACON	1
NWS	-
Other	-
Total Displays	4

FY 85	REPLACE	R/W 05
FY 86	ESTABLISH	R/W 23

AKRON CANTON OH (CAK)

AGL



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EXISTING

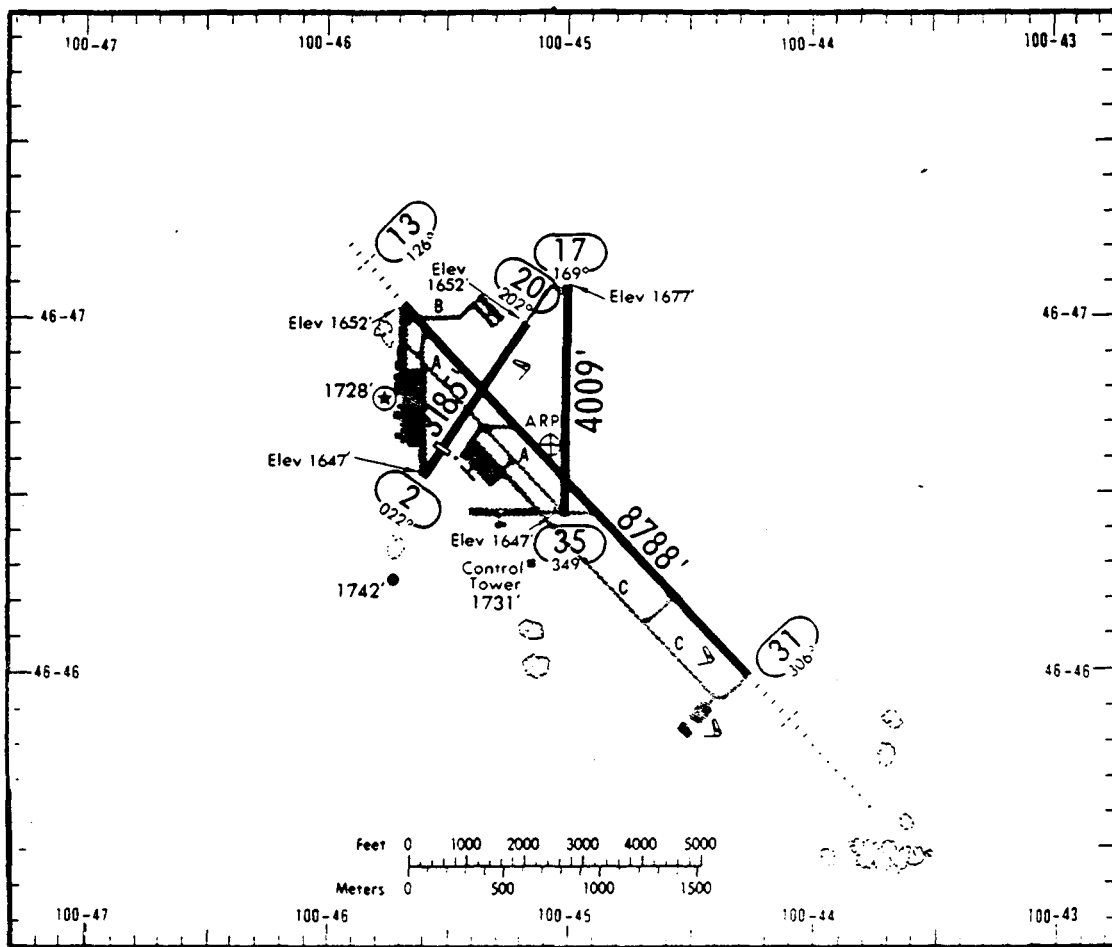
NEW GENERATION

01	<u>347AD</u>	<u>System Elements</u>	<u>QTY REQ'D</u>
CAK	TD	Basic	1
		Sensor Packages	1
		RLIM	1
		Displays	
		ATCT	2
		TRACON	2
		NWS	1
		Other	-
		Total Displays	5

FY 86	ESTABLISH	R/W 23
FY 86	REPLACE	R/W 04

BISMARCK ND (BIS)

AGL

JEPPesen SANDERSON, INC., 1986, 1987
ALL RIGHTS RESERVEDEXISTINGNEW GENERATION

NONE

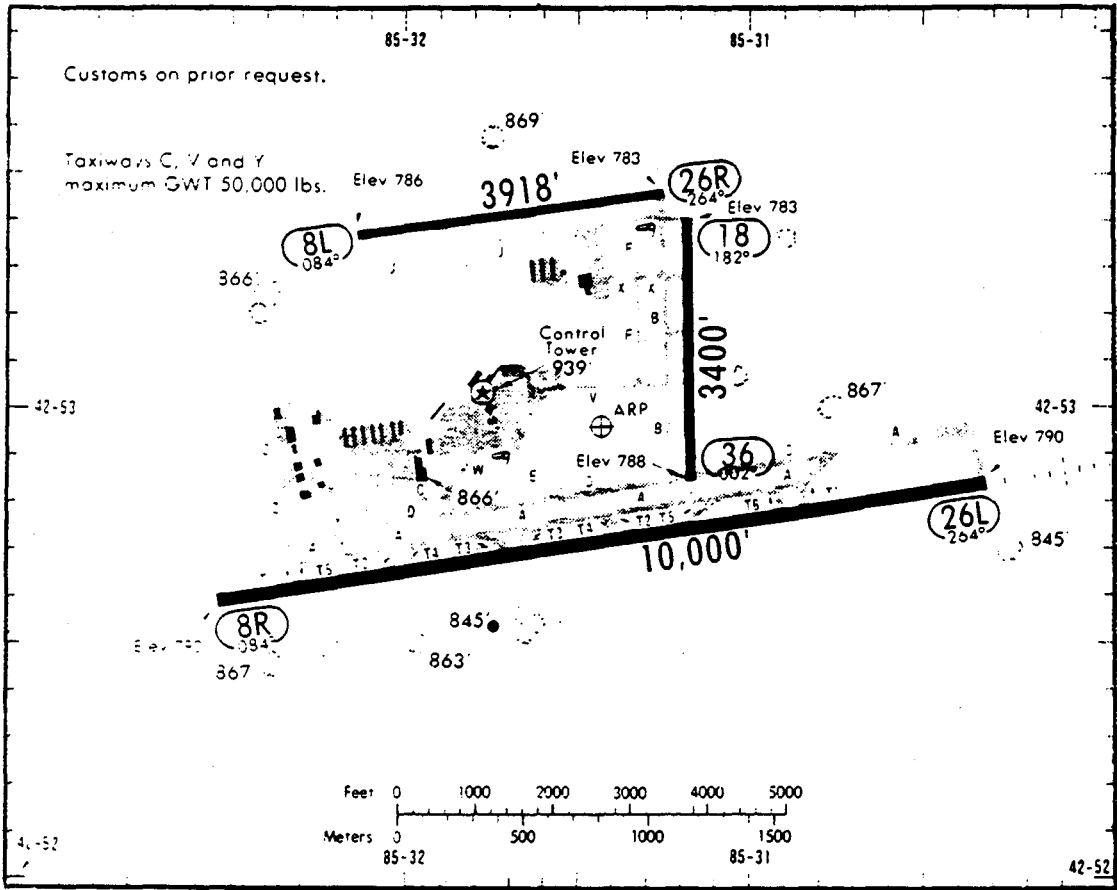
System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	-
Other	-
Total Displays	2

FY 86	ESTABLISH	R/W 31
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GRAND RAPIDS (GRR)

AGL



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EXISTING

NEW GENERATION

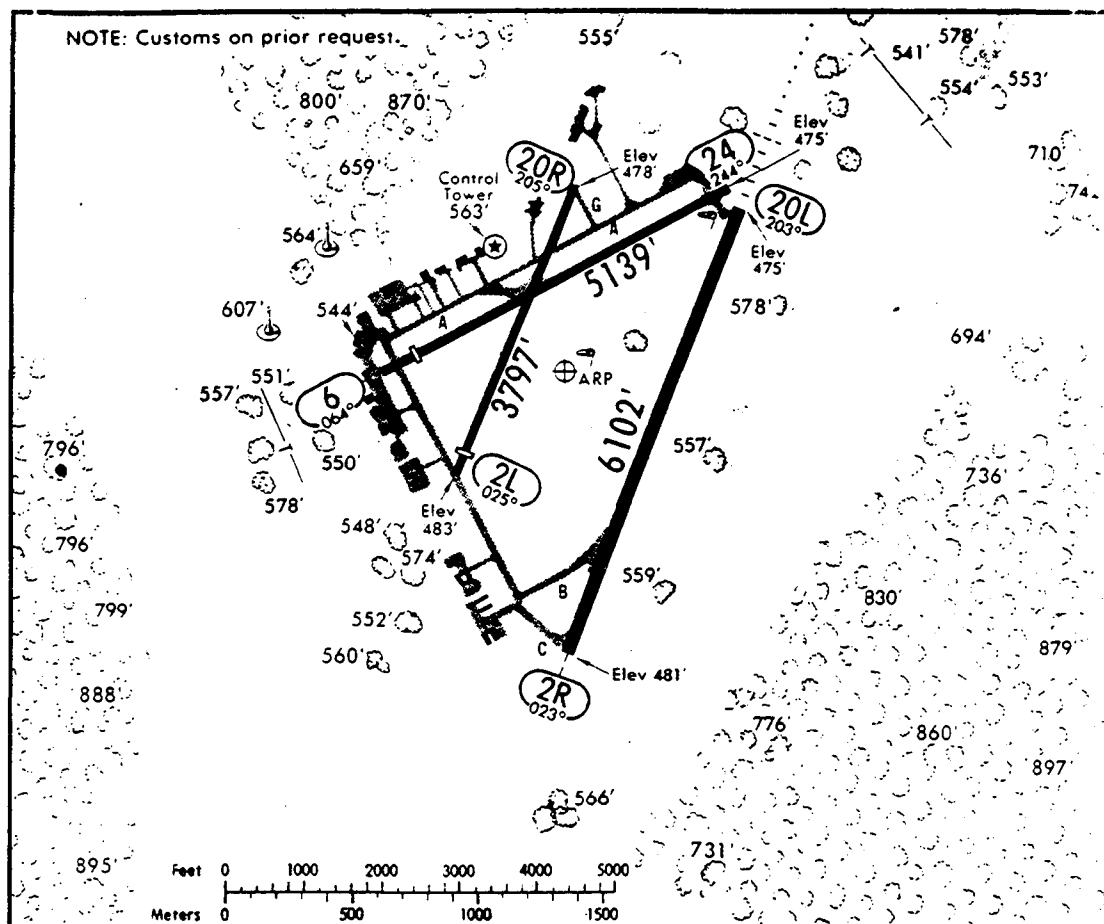
26L 347AE
GRR TD

System Elements		QTY REQ'D
Basic		1
Sensor Packages		1
RLIM		-
Displays		
ATCT	2	
TRACON	1	
NWS	-	
Other	-	
Total Displays		3

FY 86	ESTABLISH	R/W 08R
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CININNATI OH (LUK)

AGL



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EXISTING

NEW GENERATION

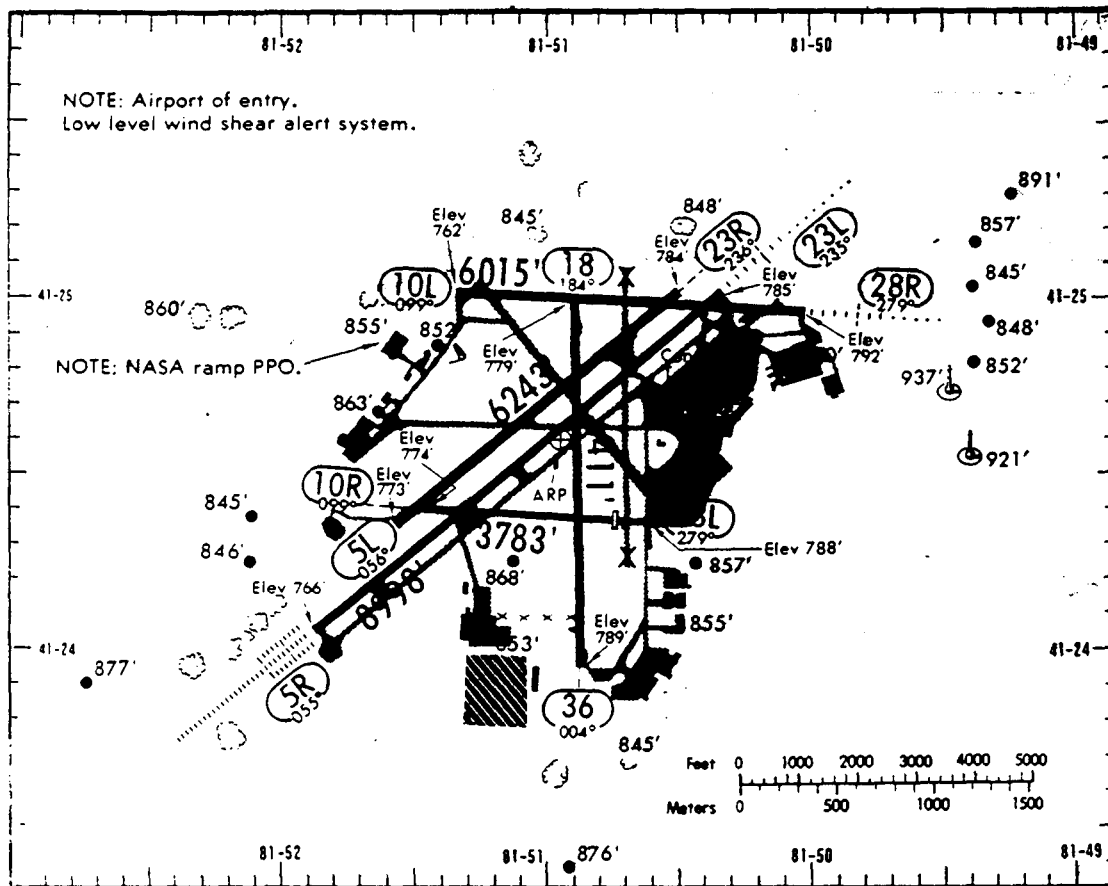
20L	<u>347AD</u>	<u>System Elements</u>	<u>QTY REQ'D</u>
LUK	TD	Basic	1
		Sensor Packages	-
		RLIM	-
		Displays	
		ATCT	2
		TRACON	-
		NWS	-
		Other	-
		Total Displays	2

FY 86	REPLACE	R/W 20L
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8/10/88

CLEVELAND OH (CLE)

AGL



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EXISTING

NEW GENERATION

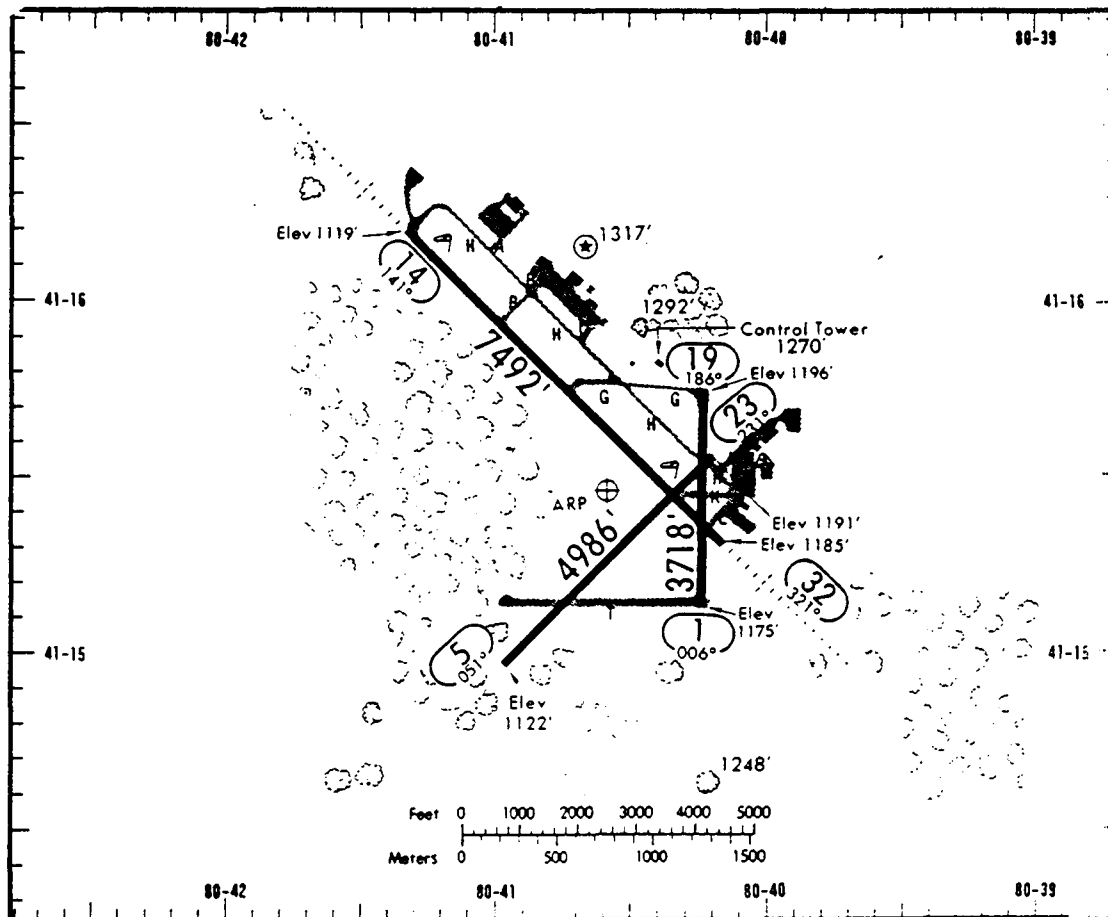
28R 347AD
CEE TD
05R 347AD
CLE TD
CLEA MP
CLEB RO

System Elements	QTY REQ'D
Basic	1
Sensor Packages	3
RLIM	1
Displays	
ATCT	2
TRACON	2
NWS	1
Other	-
Total Displays	5

FY 86	REPLACE	R/W 05R, 28R
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YOUNGSTOWN OH (YNG)

AGL



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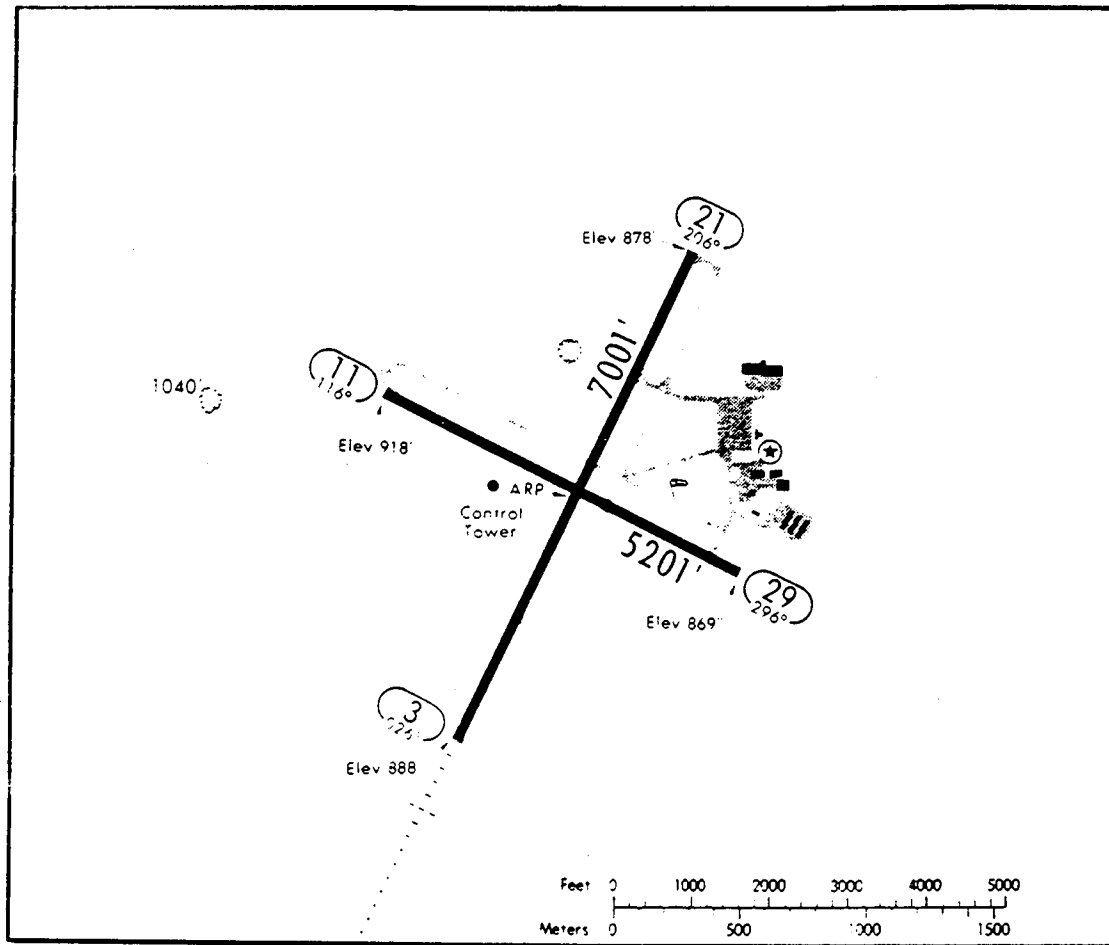
EXISTINGNEW GENERATION

		<u>System Elements</u>	<u>QTY REQ'D</u>
32	<u>347AD</u>	Basic	1
YNG	TD	Sensor Packages	1
		RLIM	-
		Displays	
		ATCT	1
		TRACON	1
		NWS	1
		Other	-
		Total Displays	3

FY 86	REPLACE	R/W 32
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APPLETON WI (ATW)

AEA



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EXISTING

NONE

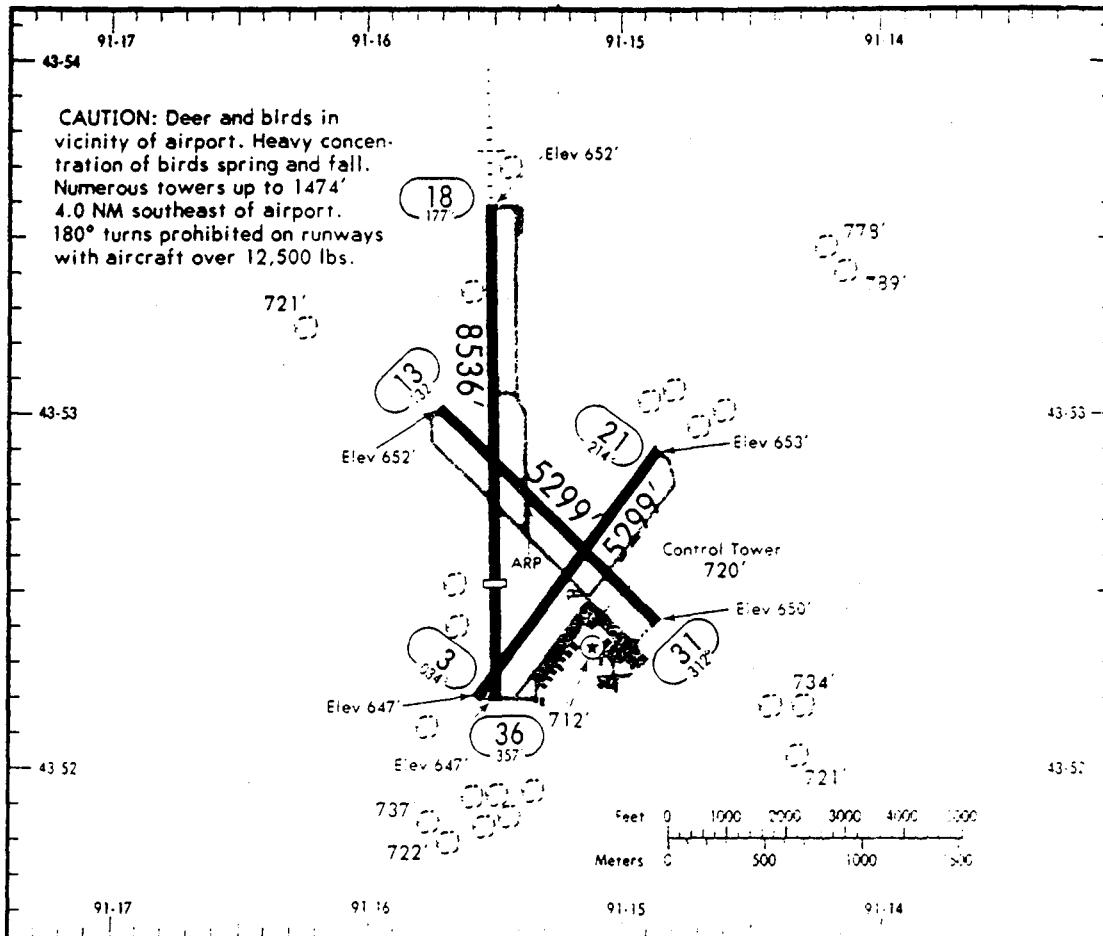
NEW GENERATION

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	-	
NWS	-	
Other	-	
Total Displays		1

FY 88	ESTABLISH	R/W 03
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LA CROSSE WI (LSE)

AGL

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NONE

System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	-
NWS	-
Other	-
Total Displays	1

FY 88	ESTABLISH	R/W 18
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AGL



NEW GENERATION

System Elements

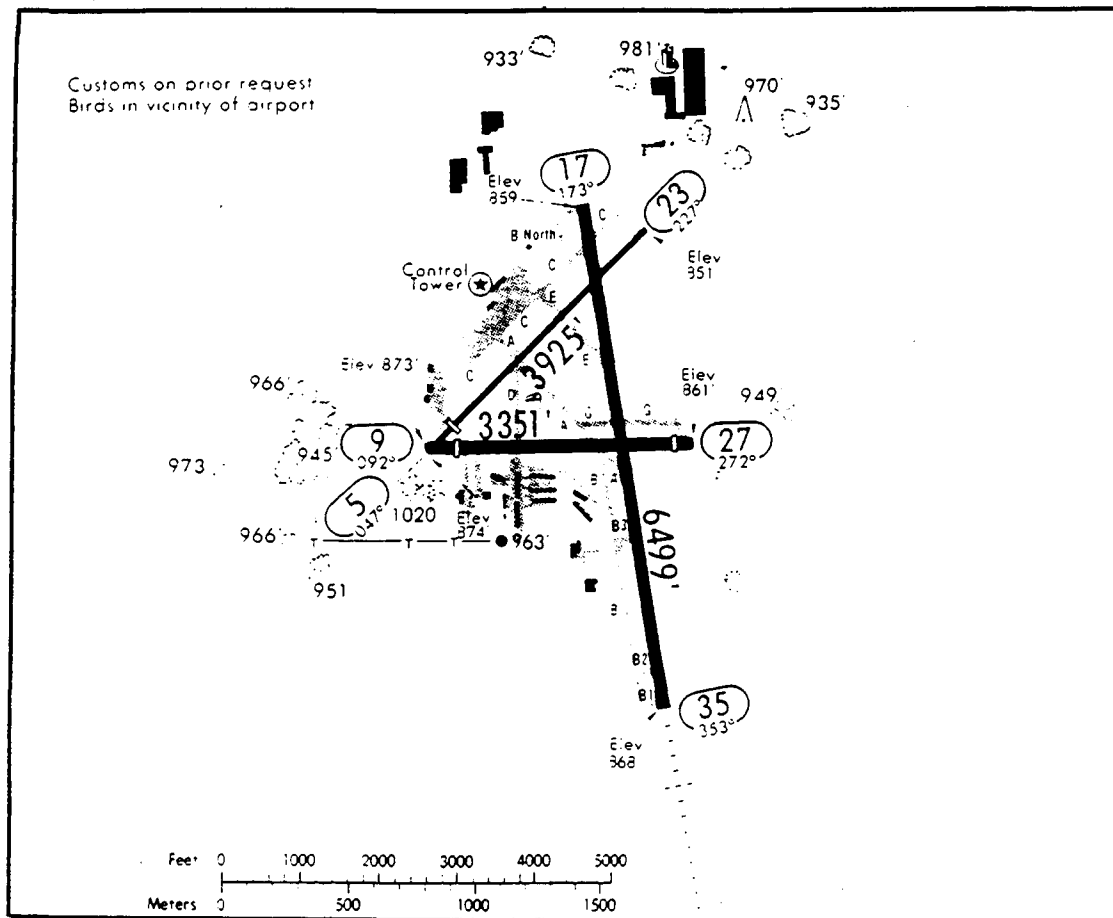
QTY REQ'D

Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	-	
NWS	-	
Other	-	
Total Displays		1

Page 24

KALAMAZOO MI (AZO)

AGL

JEPPESSEN SANDERSON, INC., 1986, 1987
ALL RIGHTS RESERVEDEXISTINGNEW GENERATION35 347AE

AZO TD

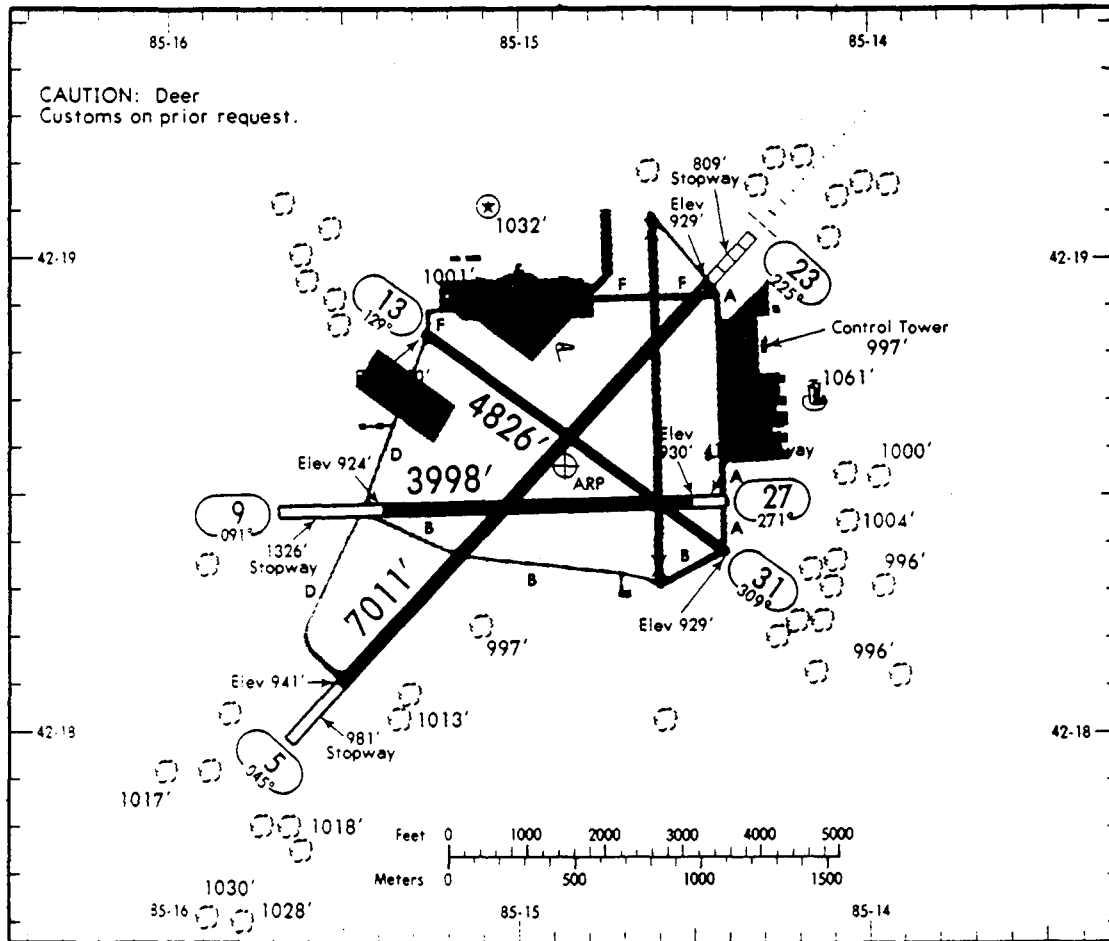
System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	3
TRACON	-
NWS	-
Other	-
Total Displays	3

FY 93	REPLACE	R/W 35
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BATTLE CREEK MI (BTL)

AGL



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EXISTING

NEW GENERATION

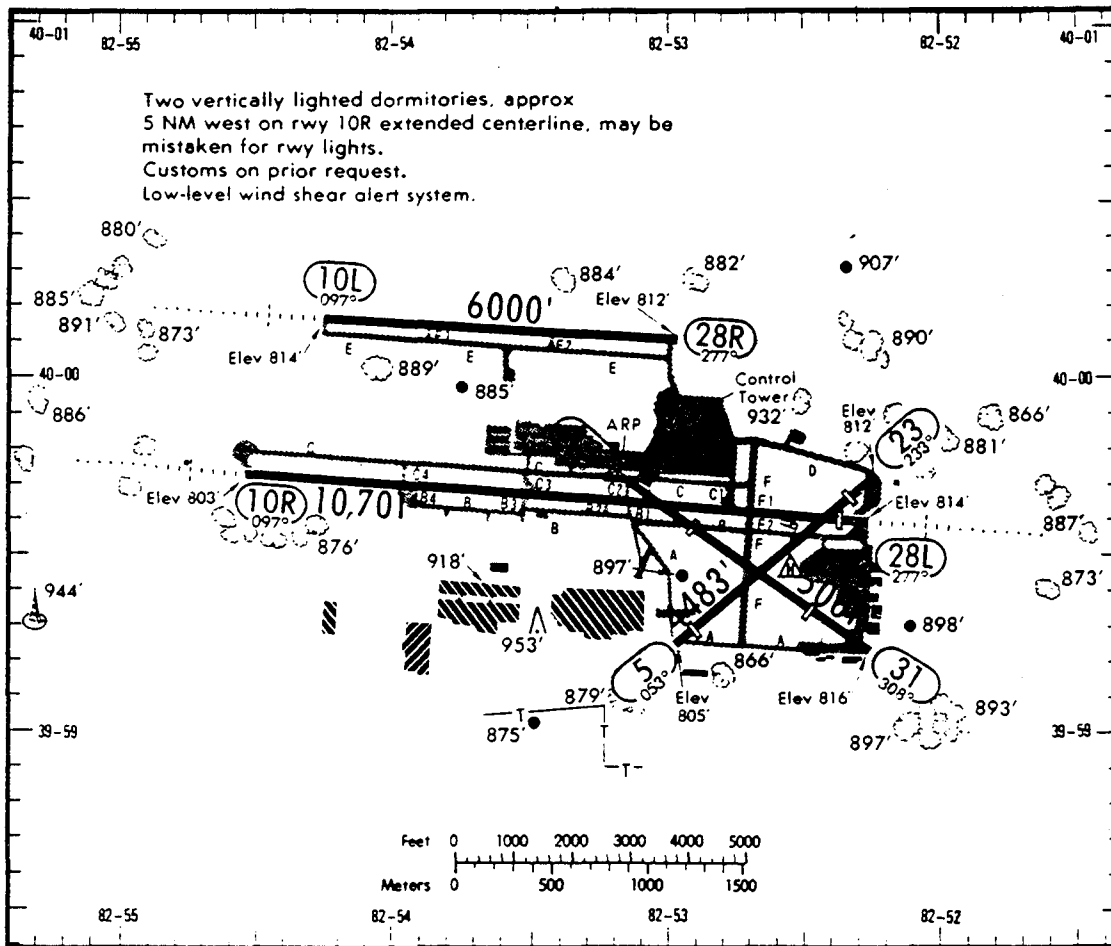
23 347AE
BTL TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	-	
NWS	-	
Other	-	
Total Displays		1

FY 93	REPLACE	R/W 23
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COLUMBUS OH (CMH)

AGL



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EXISTINGNEW GENERATION

10L 347AE
CBP TD
28L 347AE
CMH TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		1
RLIM		1
Displays		
ATCT	2	
TRACON	2	
NWS	-	
Other	-	
Total Displays		4

FY 93	REPLACE	R/W 10L, 28L
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AGL

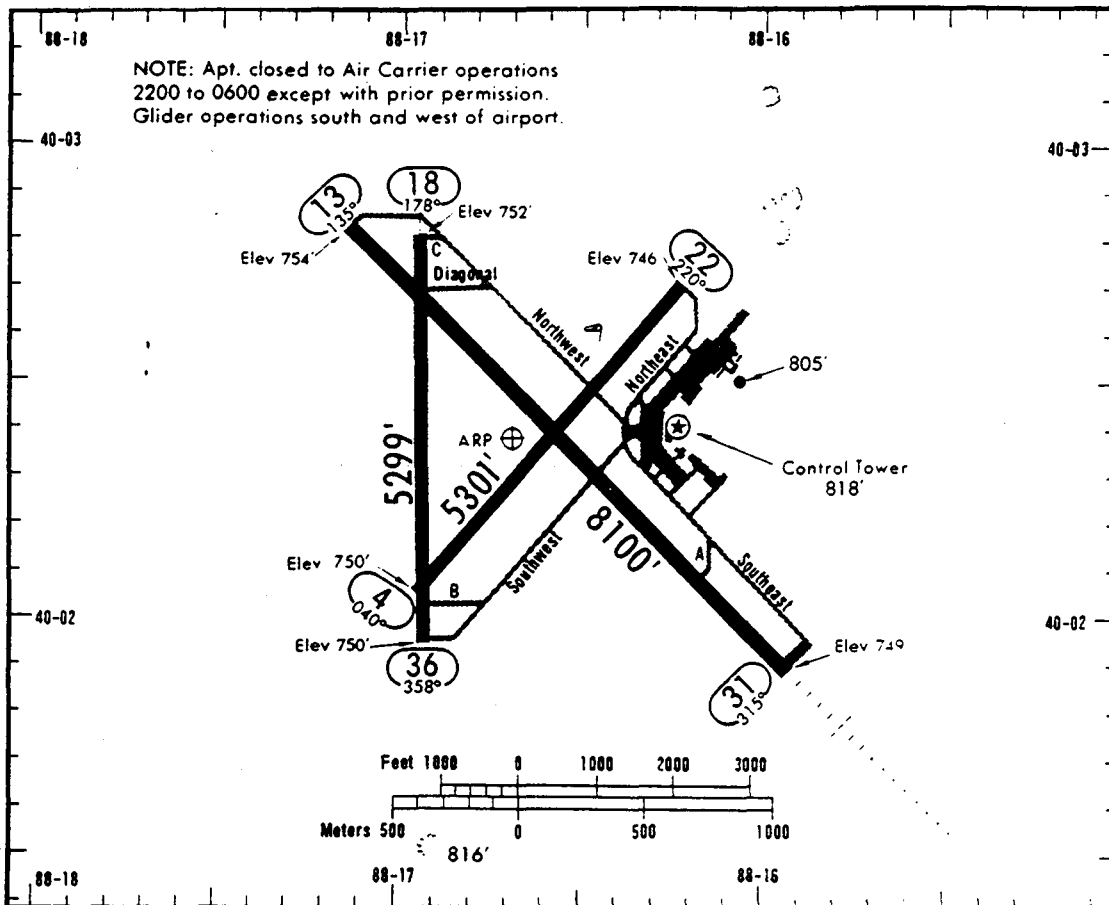


NEW GENERATION

FY 93	REPLACE	R/W 04, 31
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CHAMPAIGN IL (CMI)

AGL



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EXISTINGNEW GENERATION

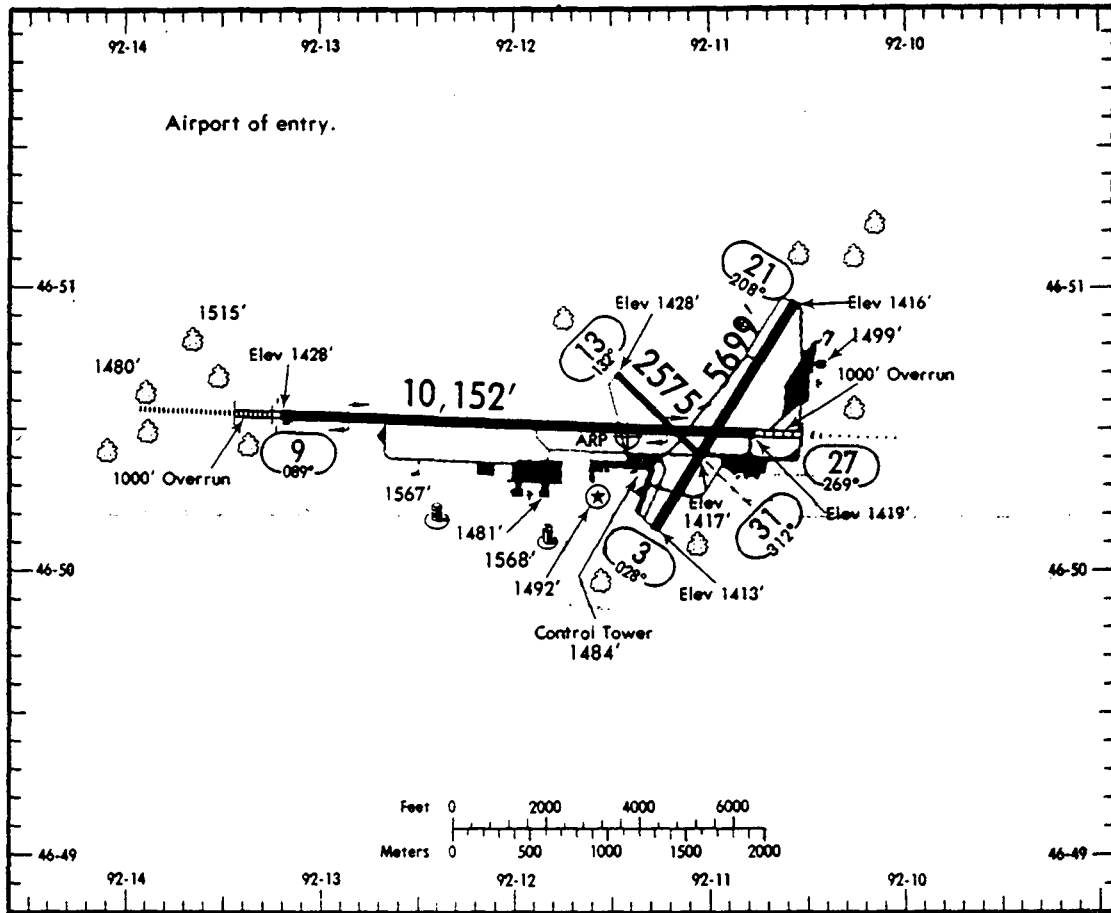
31 347AE
CMI TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	1	
NWS	-	
Other	-	
Total Displays		2

FY 93	REPLACE	R/W 31
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DULUTH MN (DLH)

AGL



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EXISTING

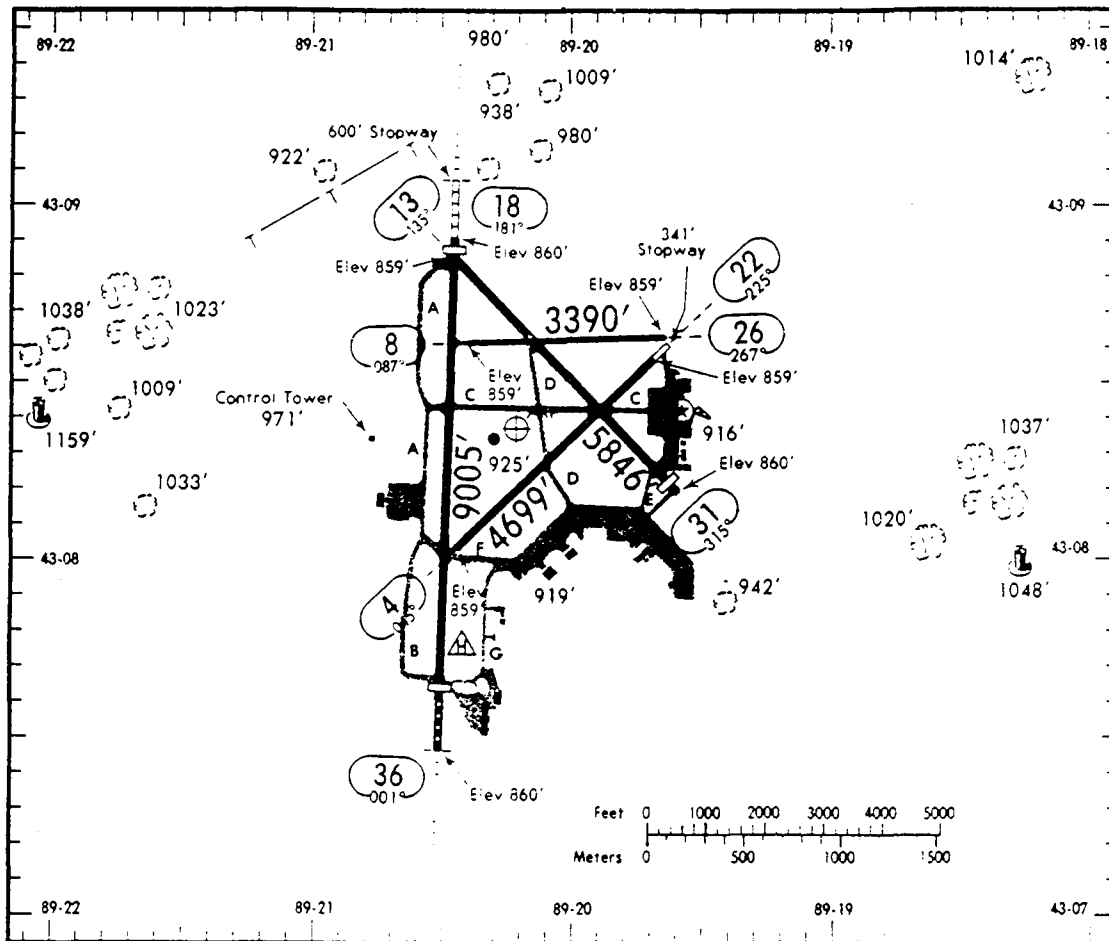
NEW GENERATION

		System Elements	QTY REQ'D
09	<u>347AE</u>	Basic	1
DLH	TD	Sensor Packages	1
27	<u>347AE</u>	RLIM	-
JUD	TD	Displays	
		ATCT	2
		TRACON	2
		NWS	1
		Other	-
		Total Displays	5

FY 93	REPLACE	R/W 09/27
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MADISON WI (MSN)

AGL

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18 347AE

DSZ TD

36 347AE

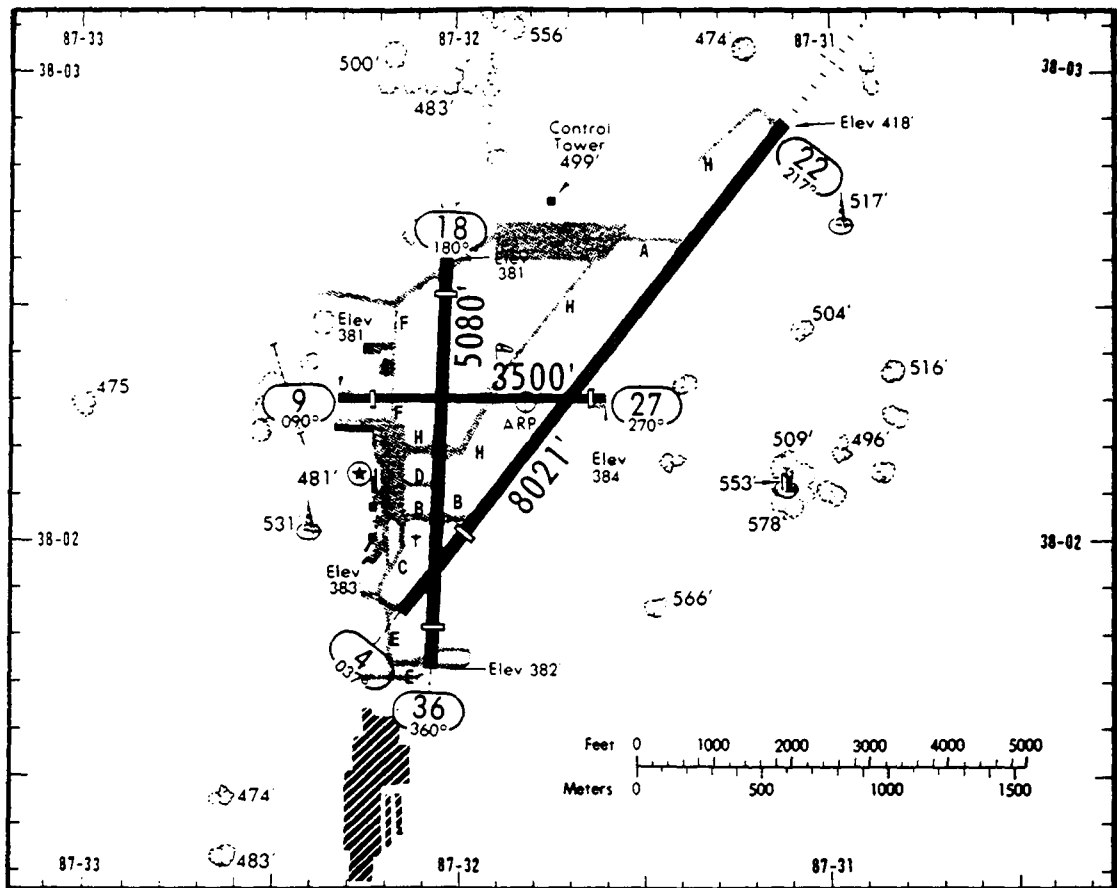
MSN TD

System Elements	QTY REQ'D
Basic	1
Sensor Packages	1
RLIM	-
Displays	
ATCT	1
TRACON	1
NWS	1
Other	-
Total Displays	3

FY 93	REPLACE	R/W 18/36
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EVANSVILLE IN (EVV)

AGL



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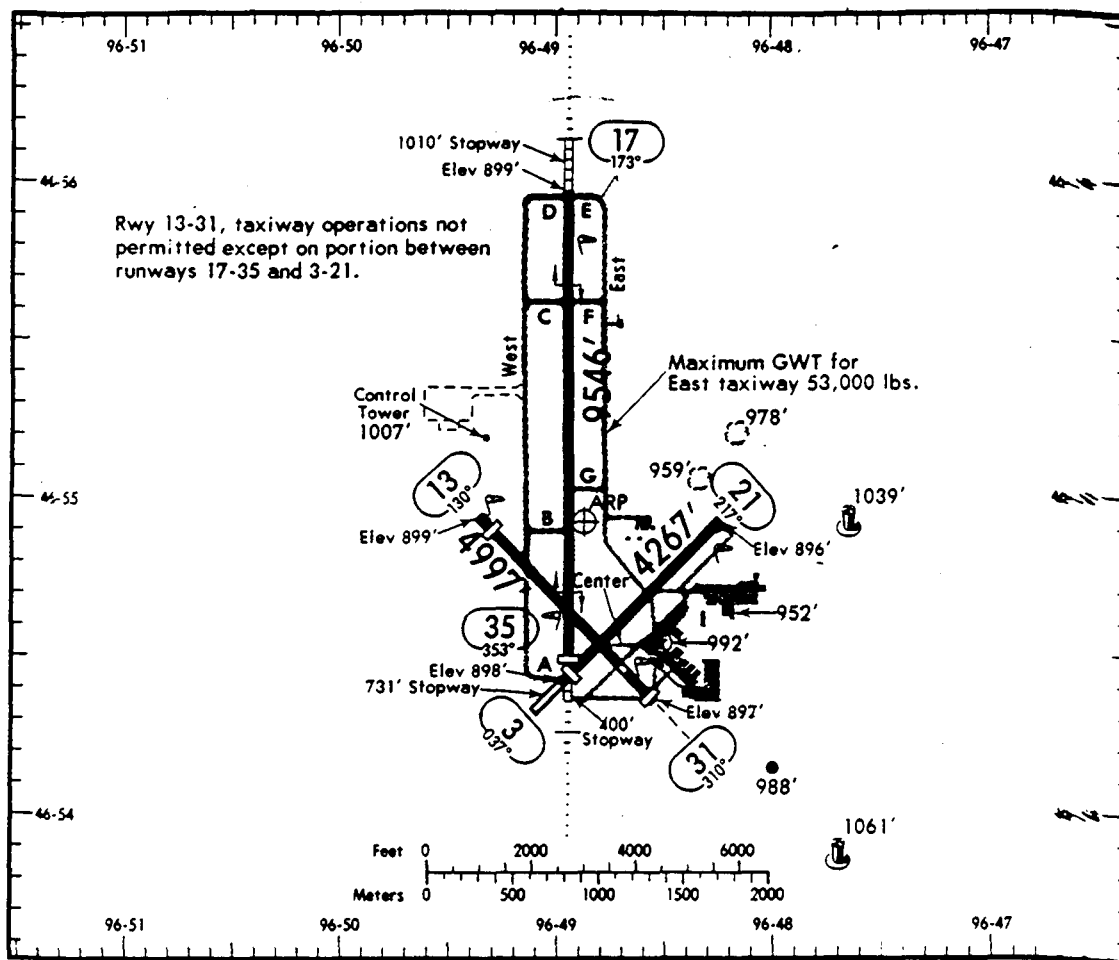
EXISTING

NEW GENERATION

22 347AE
EVV TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	1	
NWS	-	
Other	-	
Total Displays		2

FY 93	REPLACE	R/W 22
-------	---------	--------

FARGO ND (FAR)

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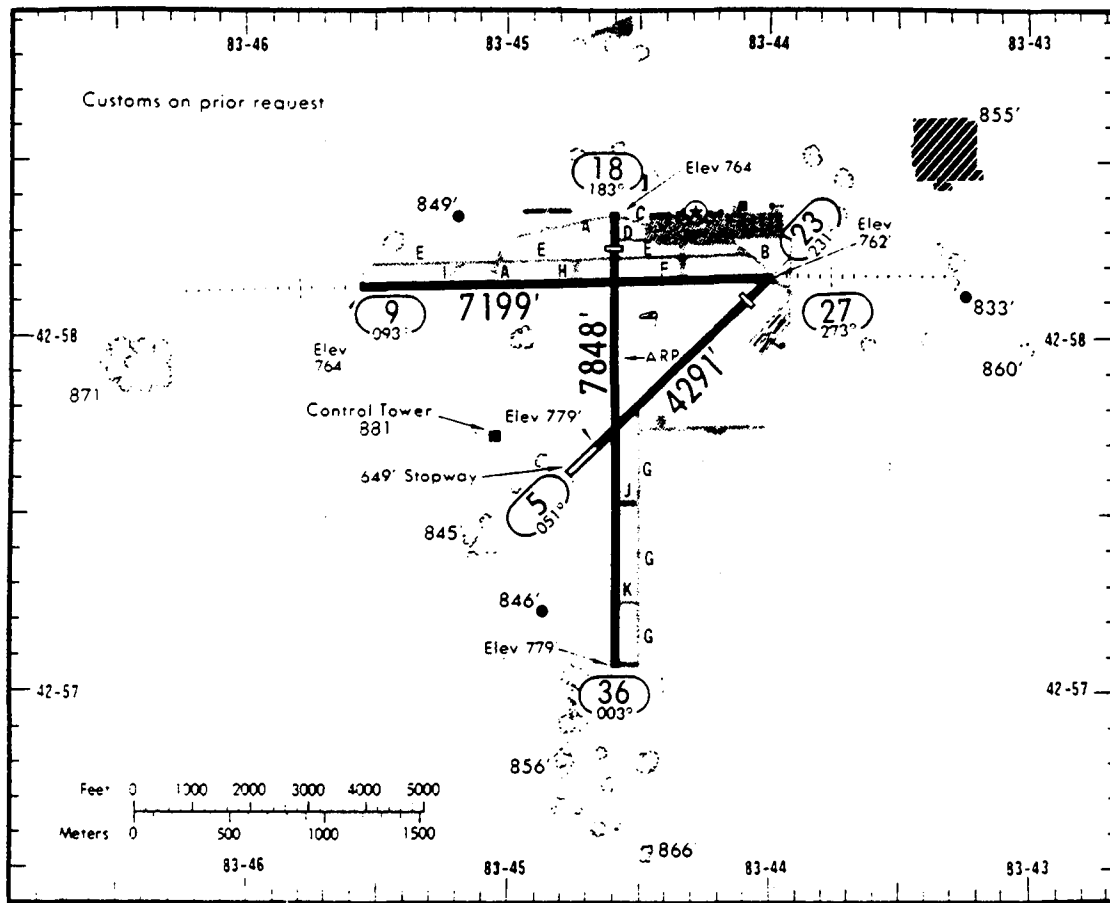
EXISTINGNEW GENERATION

		System Elements	QTY REQ'D
35	<u>347AE</u>	Basic	1
FAR	TD	Sensor Packages	1
17	<u>347AE</u>	RLIM	-
FARA	TD	Displays	
		ATCT	2
		TRACON	-
		NWS	1
		Other	-
		Total Displays	3

FY 93	REPLACE	R/W 17/35
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FLINT MI (FNT)

AGL



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EXISTING

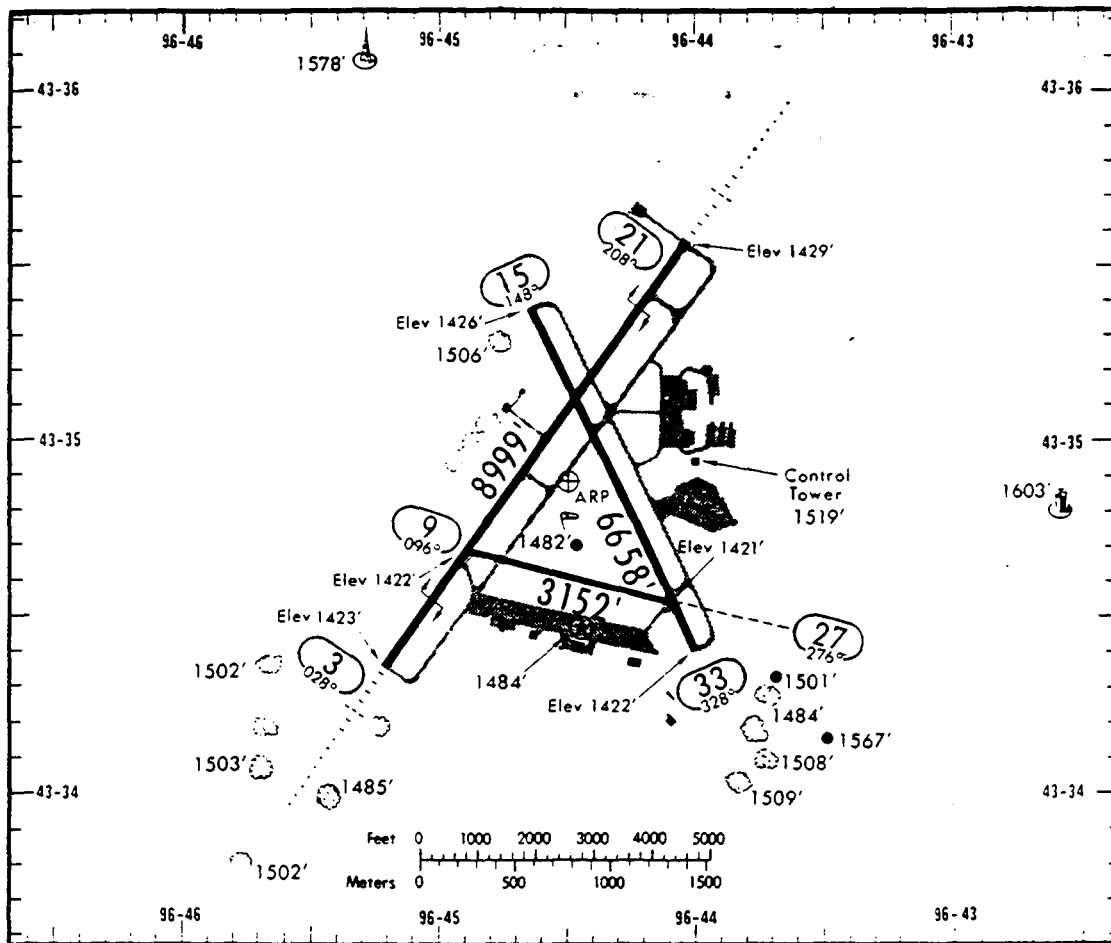
NEW GENERATION

		<u>System Elements</u>	<u>QTY REQ'D</u>
09	<u>347AE</u>	Basic	1
FNT	TD	Sensor Packages	-
		RLIM	-
		Displays	
		ATCT	1
		TRACON	2
		NWS	-
		Other	1
		Total Displays	4

FY 93	REPLACE	R/W 09
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SIOUX FALLS SD (FSD)

AGL

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21 34712

FSDA TD

03 34716

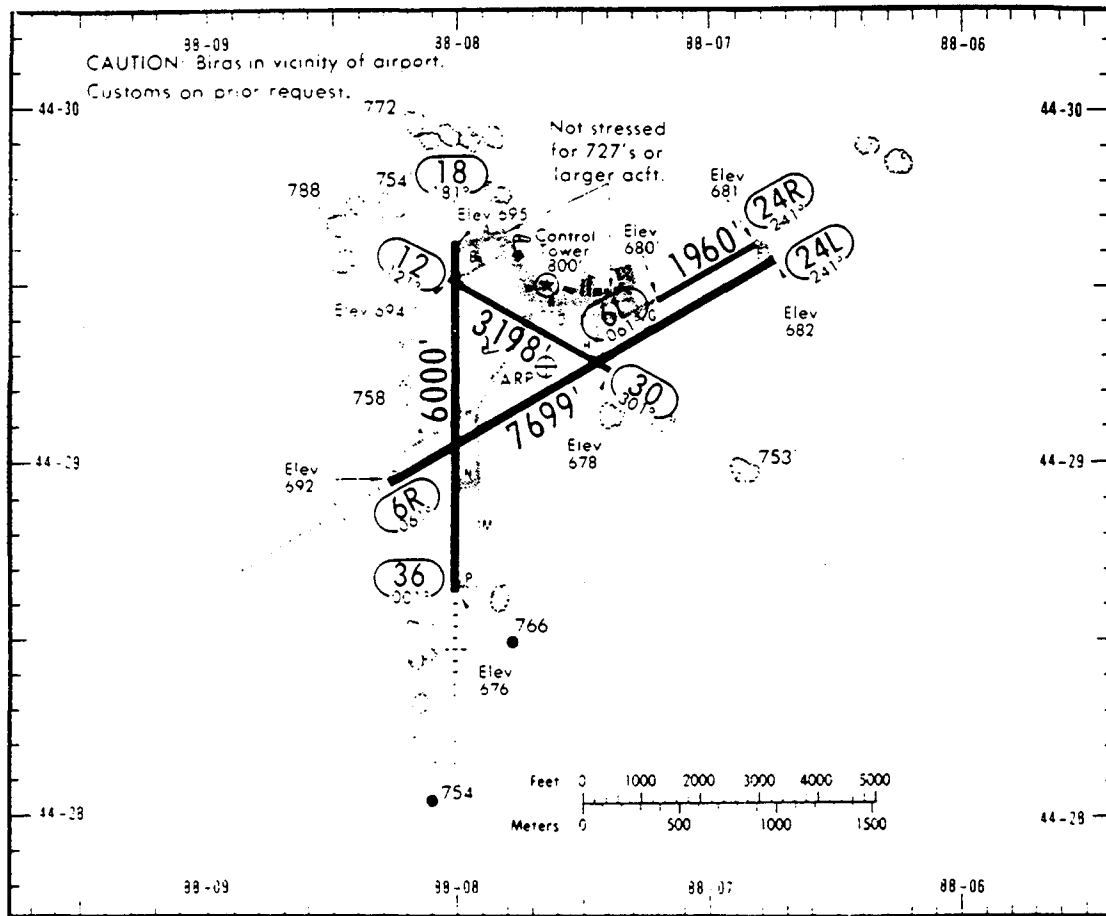
FSD RO

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		1
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	2	
Other	-	
Total Displays		4

FY 93	REPLACE	R/W 03/21
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GREEN BAY WI (GRB)

AGL



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EXISTING

NEW GENERATION

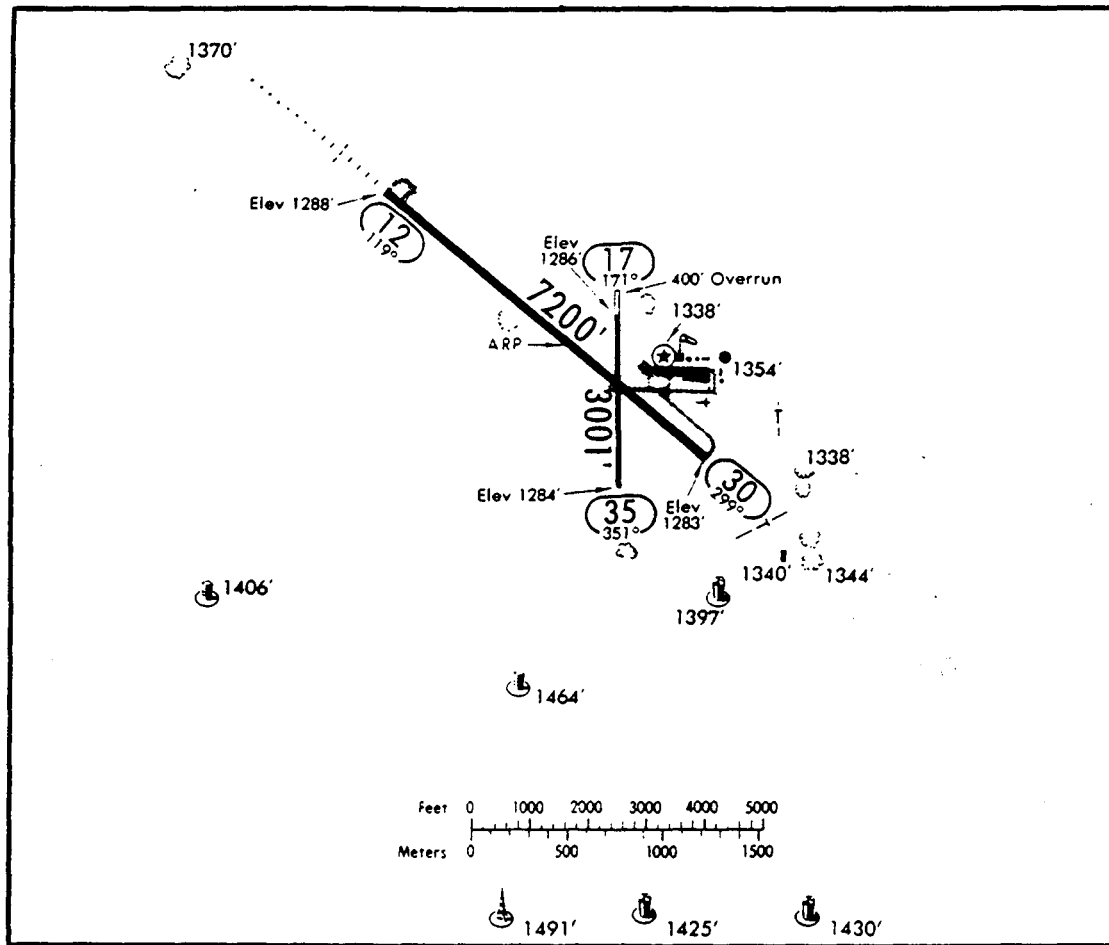
06R 347AE
GRB TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	1	
NWS	1	
Other	-	
Total Displays		3

FY 93	REPLACE	R/W 06R
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HURON S.D. (HON)

AGL



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EXISTINGNEW GENERATION12 34711

HON TD

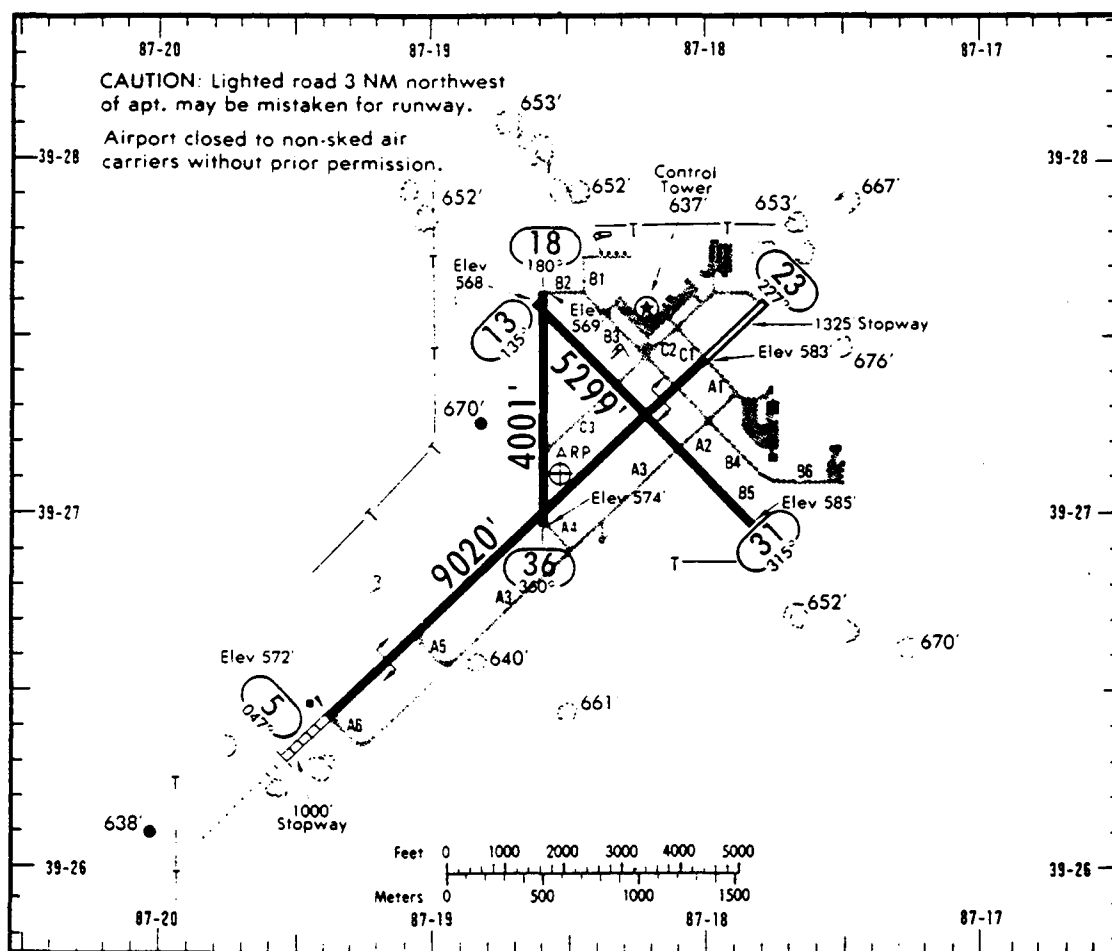
System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	-
TRACON	-
NWS	1
Other	1
Total Displays	2

FY 93	REPLACE	R/W 12
-------	---------	--------

TERRE HAUTE IN (HUF)

AGL



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EXISTING

NEW GENERATION

05 347AE

HUF TD

System Elements

QTY REQ'D

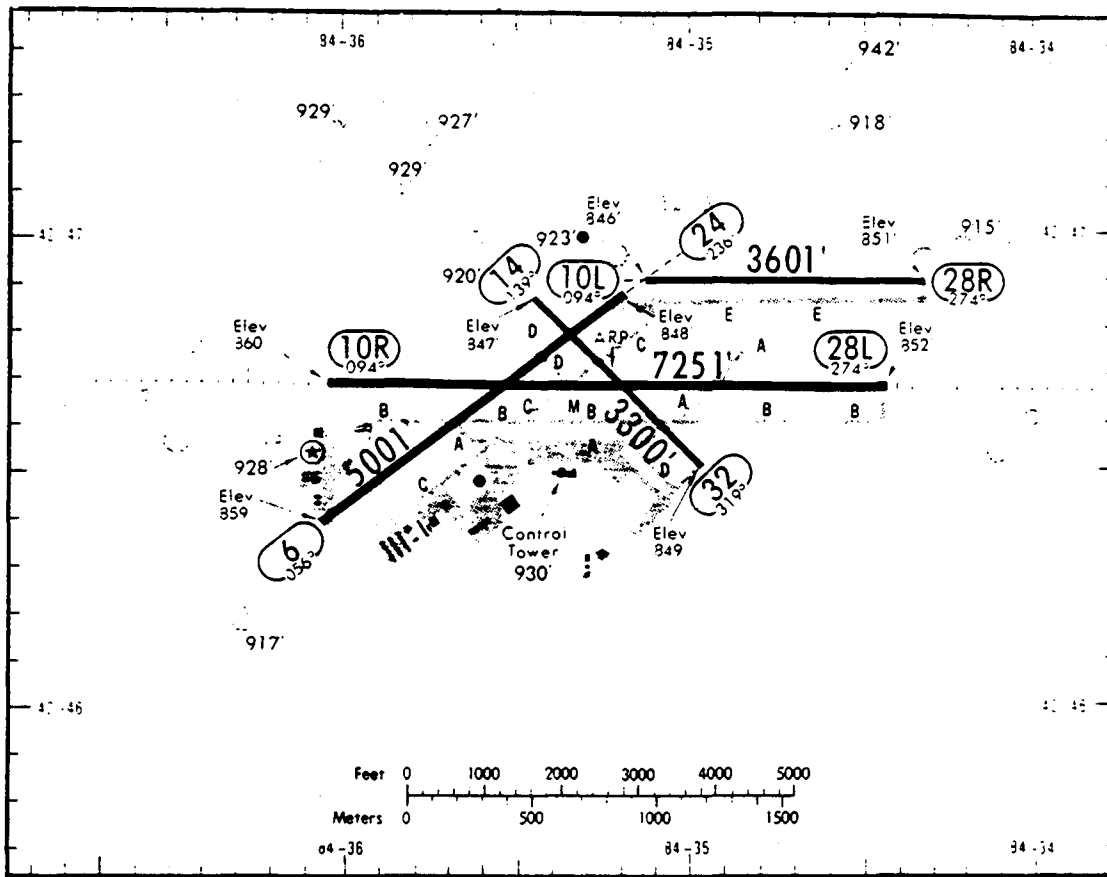
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	1	
NWS	-	
Other	-	

Total Displays 2

FY 93	REPLACE	R/W 05
-------	---------	--------

LANSING MI (LAN)

AGL

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LAN TD

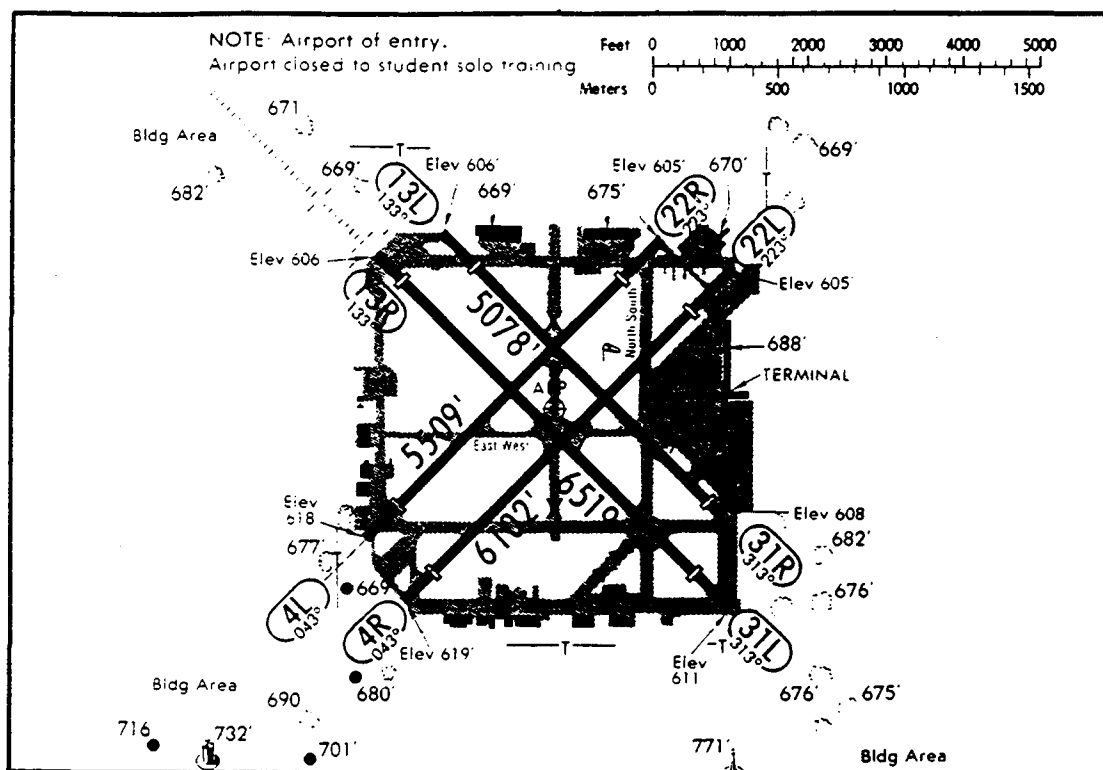
System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	2
NWS	1
Other	-
Total Displays	4

FY 93	REPLACE	R/W 28L
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CHICAGO IL (MDW)

AGL



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EXISTING

NEW GENERATION

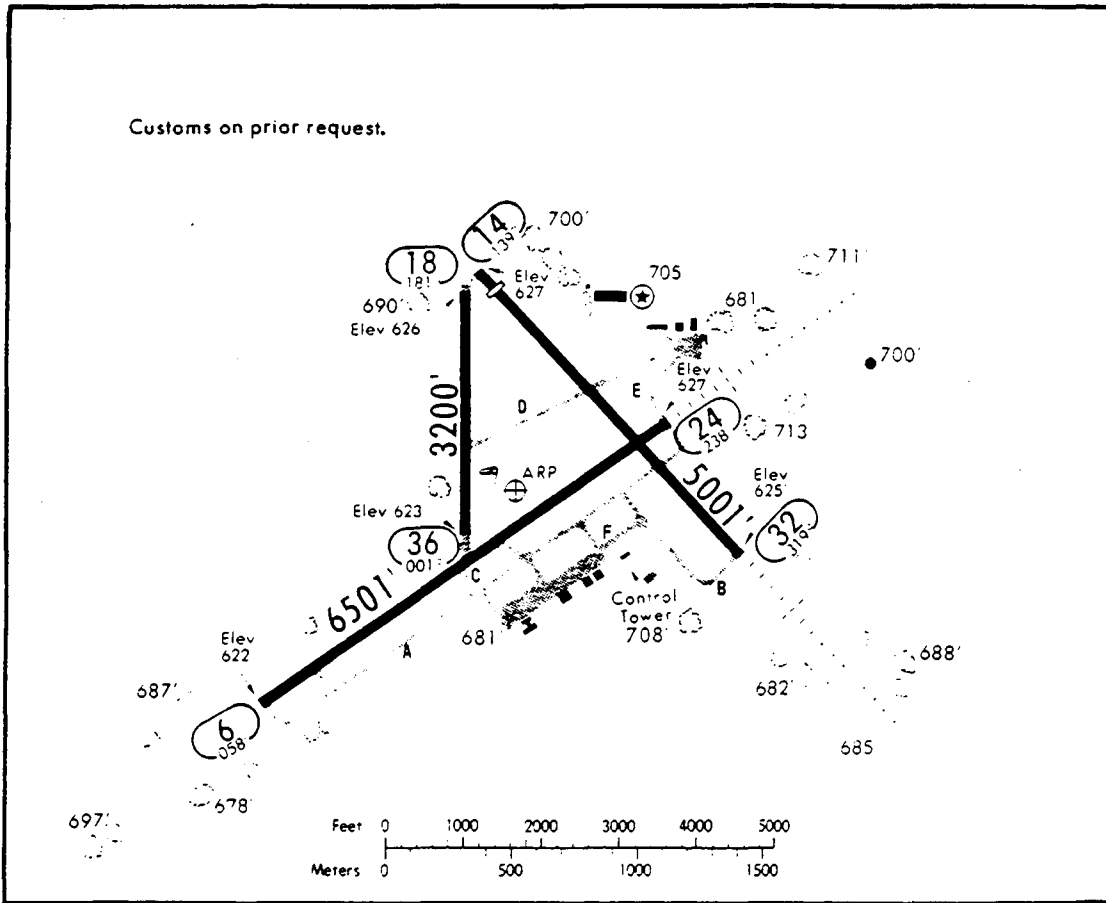
13R 347AE
MDW TD

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	-
Other	-
Total Displays	2

FY 93	REPLACE	R/W 13R
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MUSKEGON MI (MKG)

AGL



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EXISTINGNEW GENERATION32 347AE

MKG TD

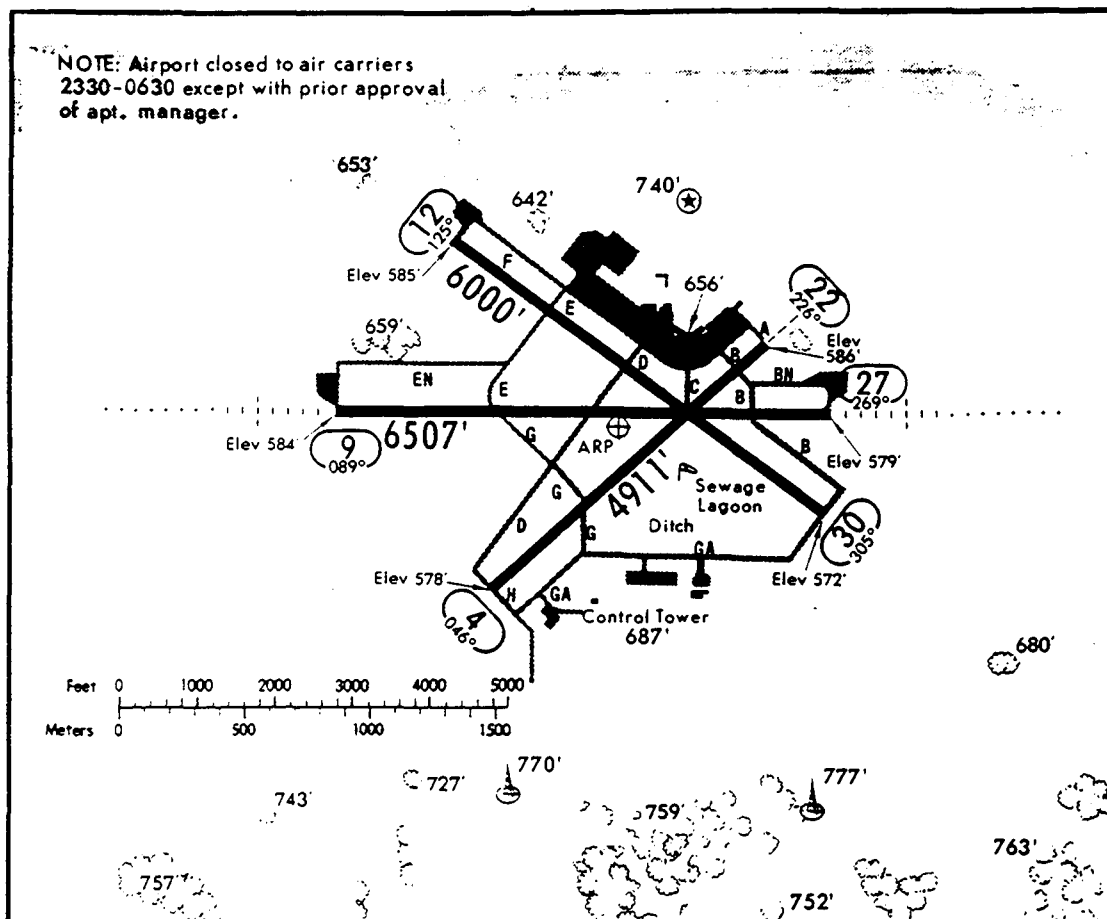
System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	1
NWS	1
Other	-
Total Displays	3

FY 93	REPLACE	R/W 32
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MOLINE IL (MLI)

AGL



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EXISTING

NEW GENERATION

09 347AE

MLI TD

System Elements

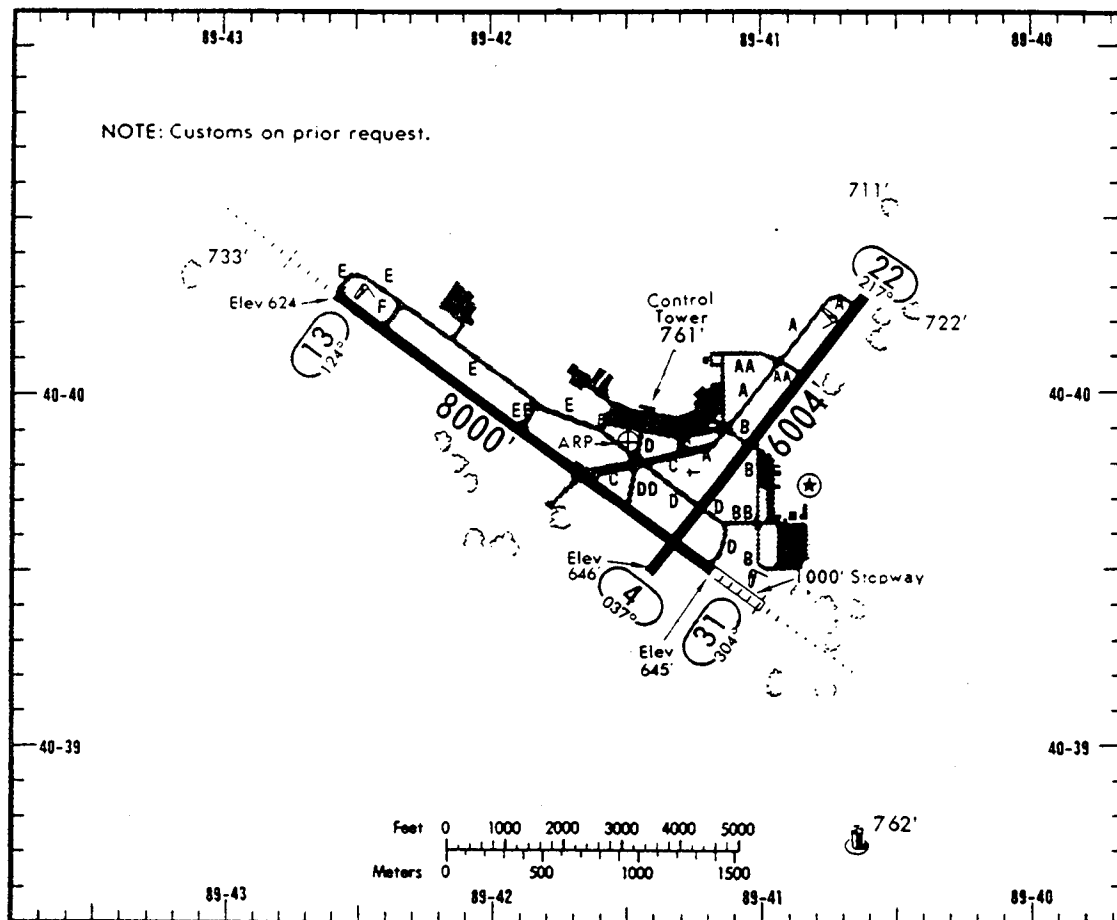
QTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	2
NWS	1
Other	-
Total Displays	4

FY 93	REPLACE	R/W 09
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PEORIA IL (PIA)

AGL



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EXISTINGNEW GENERATION31 347AE

PIA TD

System ElementsQTY REQ'D

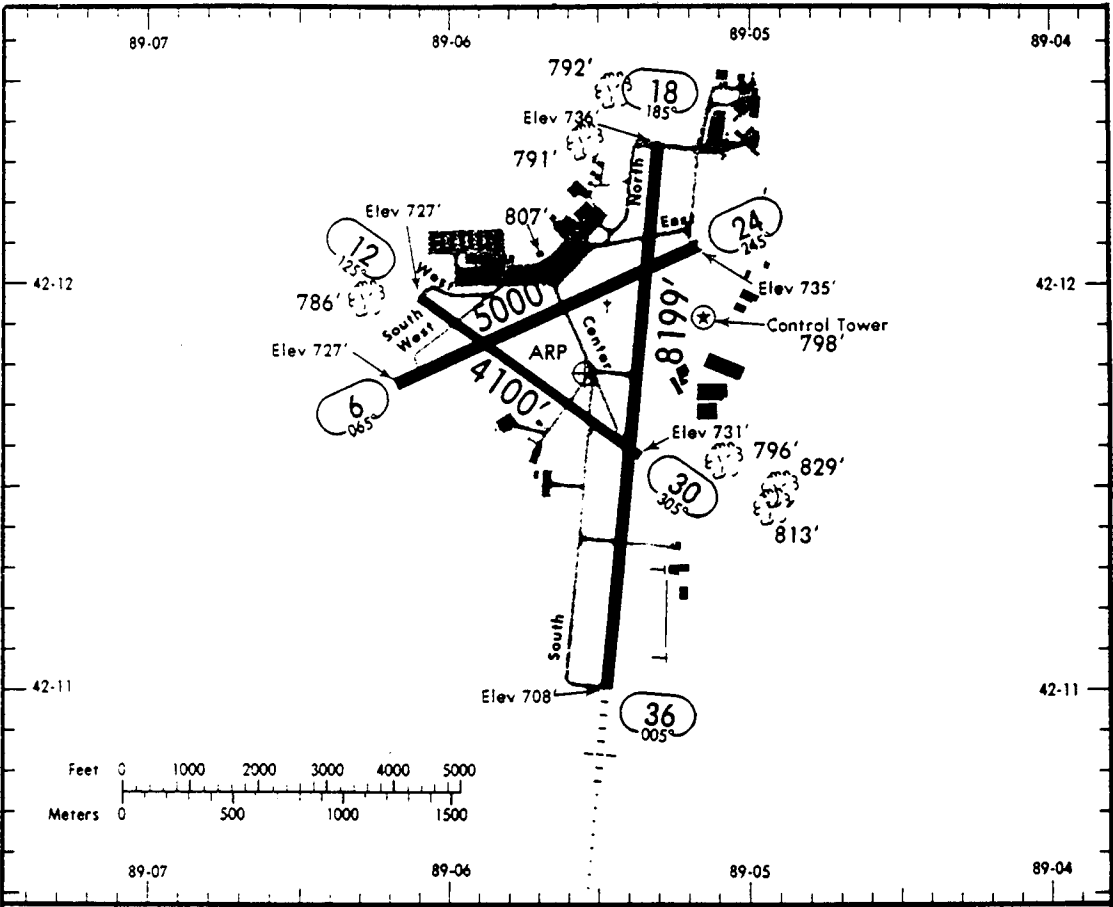
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	2
NWS	1
Other	-

Total Displays	4
----------------	---

FY 93	REPLACE	R/W 31
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ROCKFORD IL (RFD)

AGL



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EXISTING

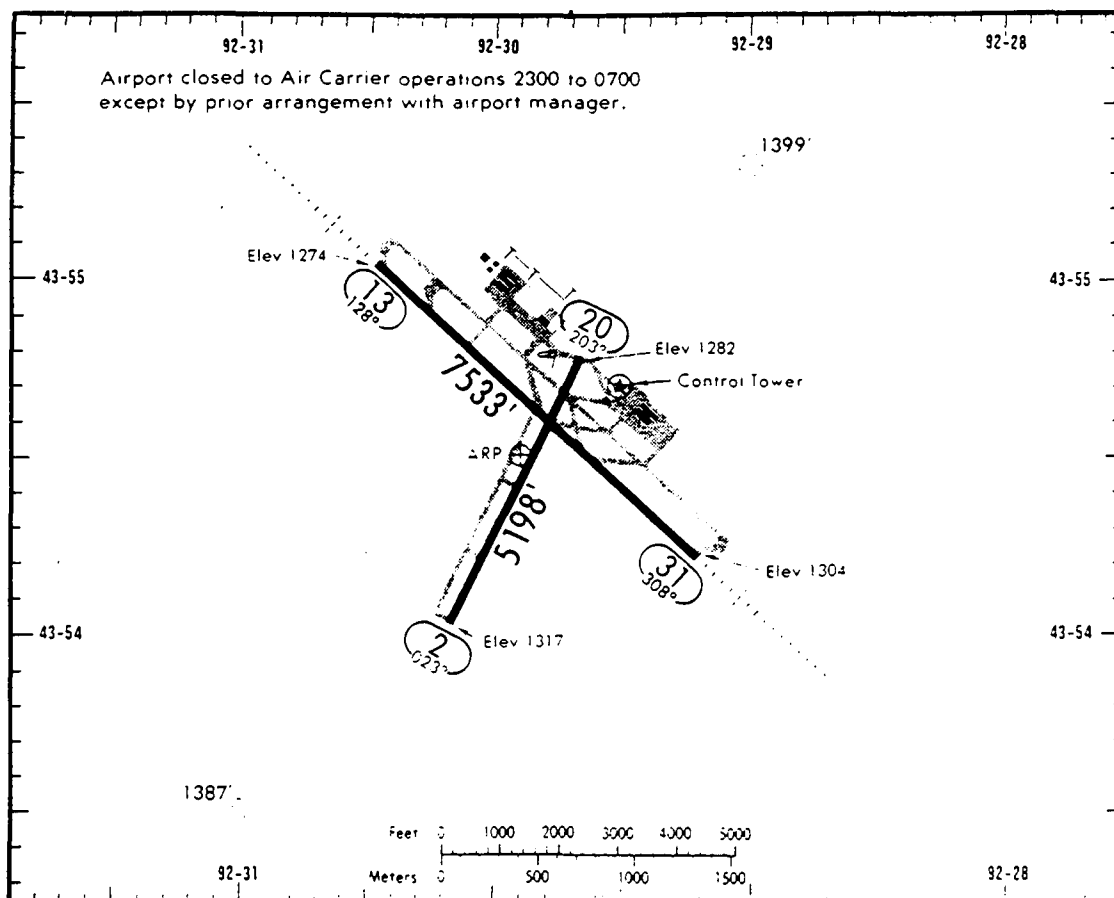
NEW GENERATION

36	347AE	System Elements	QTY REQ'D
RFD	TD	Basic	1
		Sensor Packages	-
		RLIM	-
		Displays	
		ATCT	2
		TRACON	2
		NWS	1
		Other	-
		Total Displays	5

FY 93	REPLACE	R/W 36
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ROCHESTER MN (RST)

AGL



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EXISTINGNEW GENERATION31 347AE

RST TD

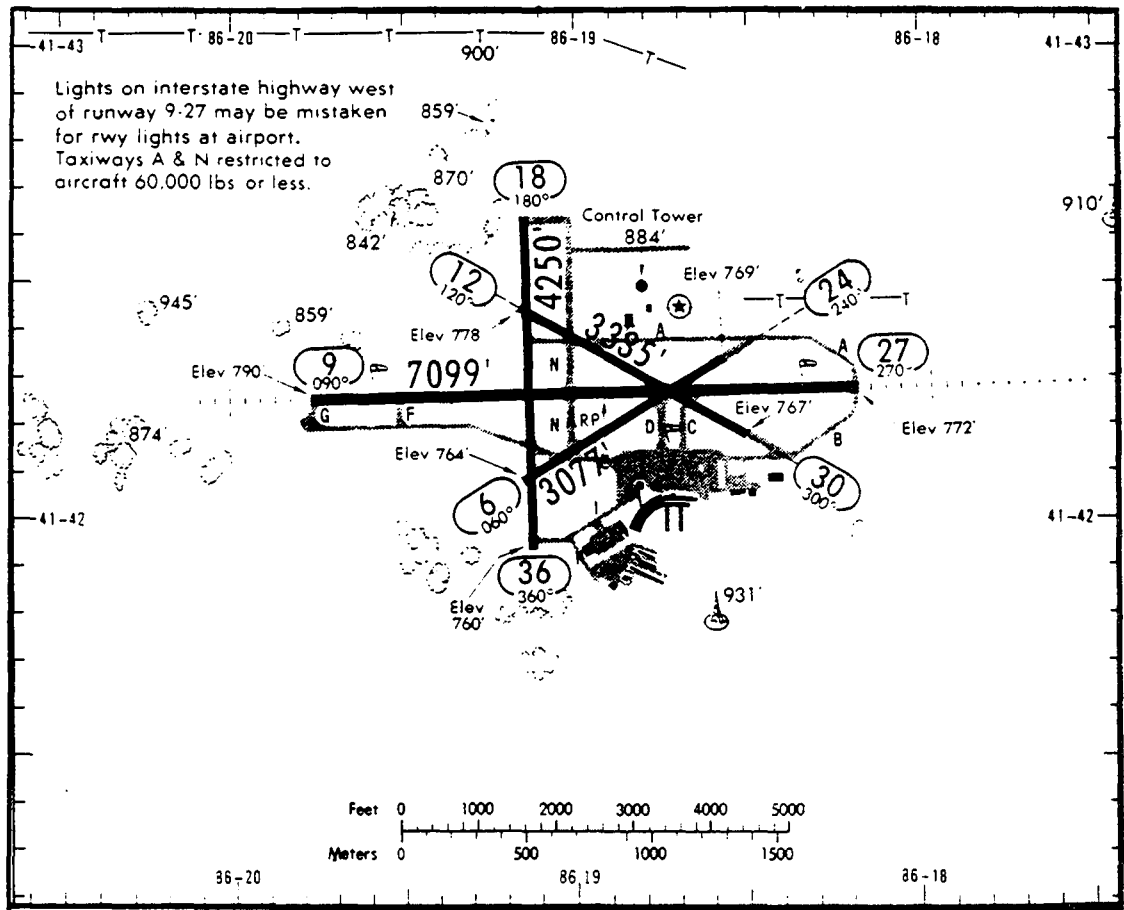
System ElementsQTY REQ'D

Basic	1
Sensor Packages	1
RLIM	-
Displays	
ATCT	3
TRACON	-
NWS	-
Other	-
Total Displays	3

FY 93	REPLACE	R/W 31
-------	---------	--------

SOUTH BEND IN (SBN)

AGL



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EXISTING

NEW GENERATION

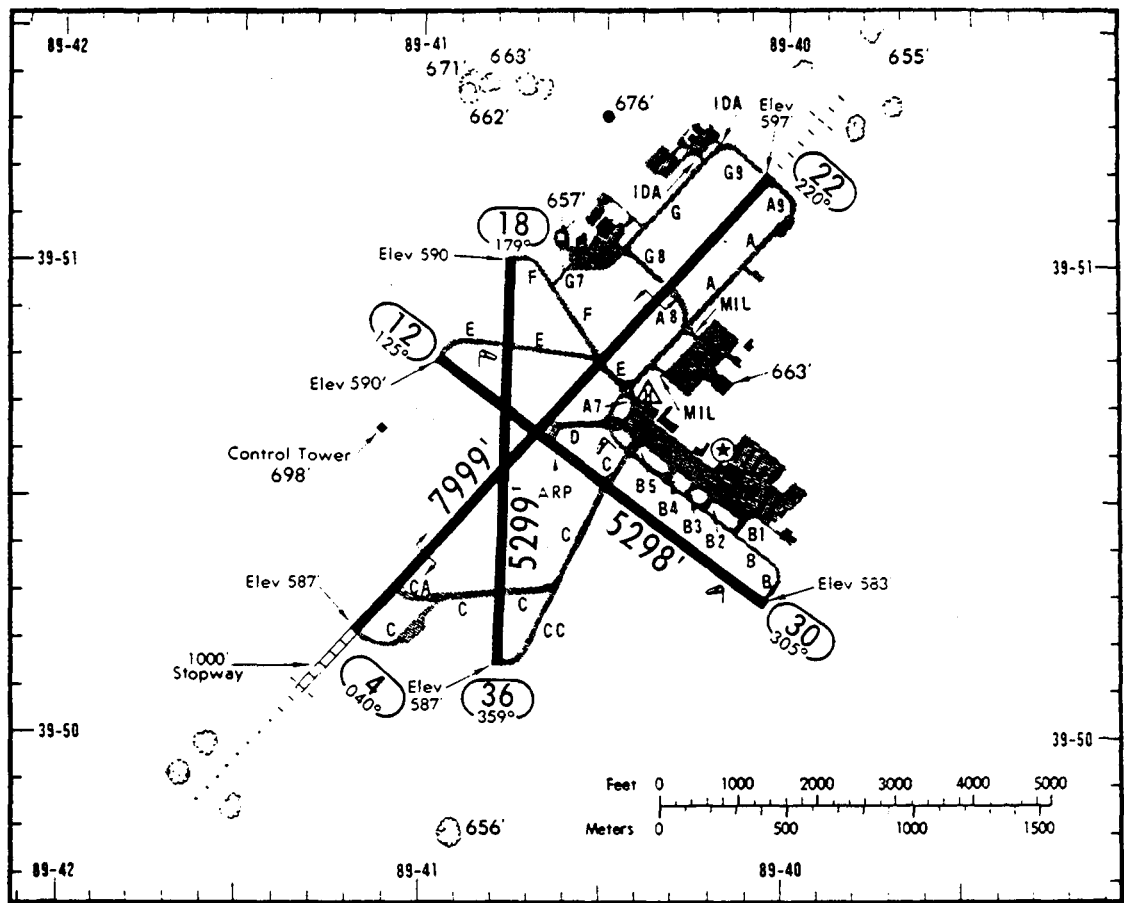
27 347AE
SBN TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	4	
NWS	1	
Other	-	
Total Displays		7

FY 93	REPLACE	R/W 27
-------	---------	--------

SPRINGFIELD IL (SPI)

AGL



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EXISTING

NEW GENERATION

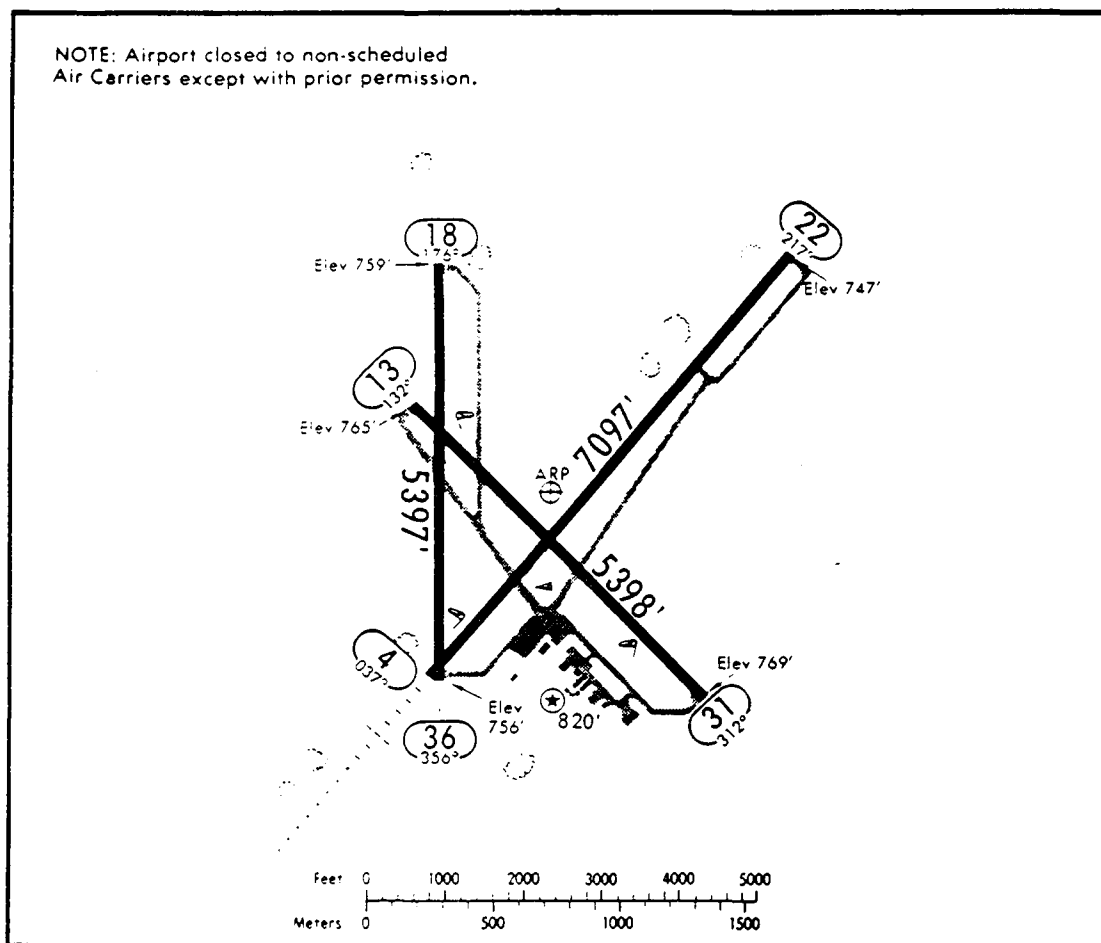
04 347AE
SPI TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	2	
NWS	-	
Other	1	
Total Displays		5

FY 93	REPLACE	R/W 04
-------	---------	--------

QUINCY IL (UIN)

AGL



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EXISTING

NEW GENERATION

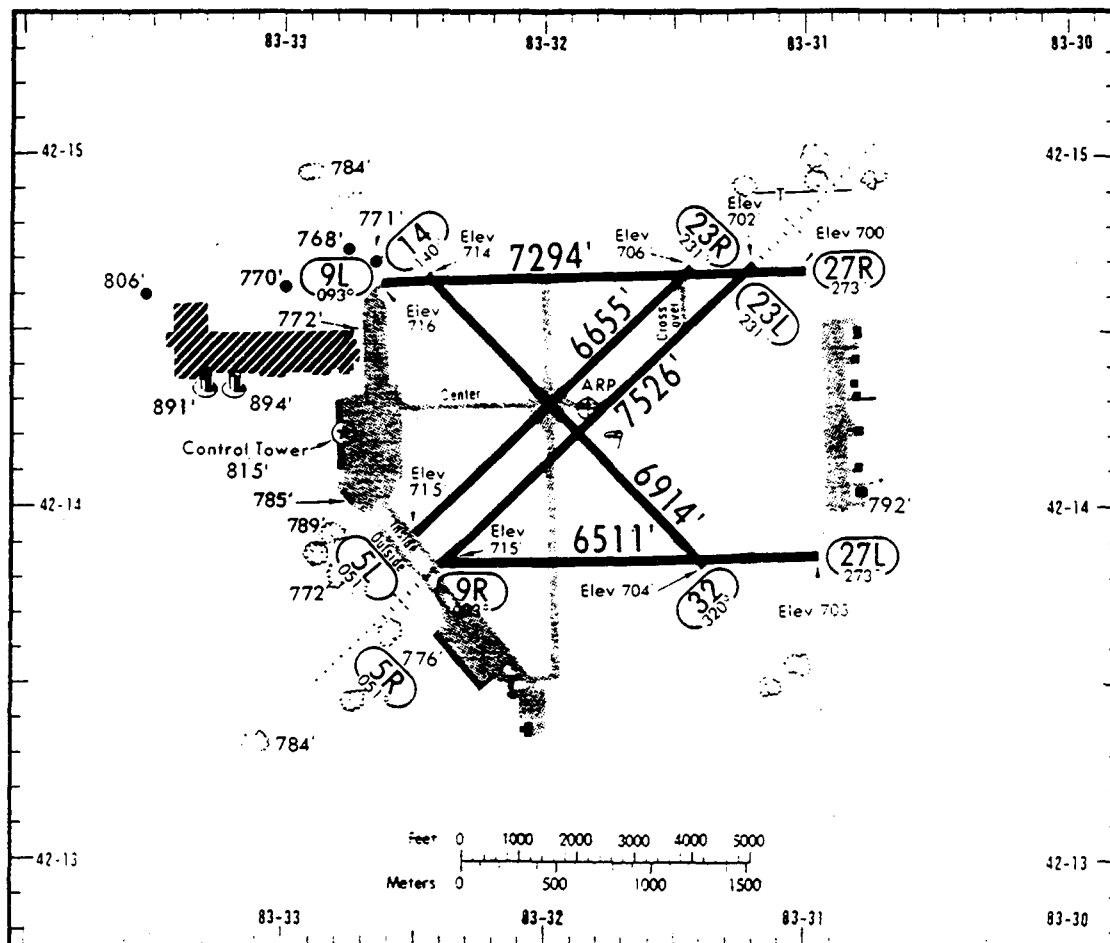
04 34711
UIN TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	-	
NWS	-	
Other	-	
Total Displays		1

FY 93	REPLACE	R/W 04
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DETROIT MI (YIP)

AGL



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EXISTINGNEW GENERATION05R 347AE

YIP TD

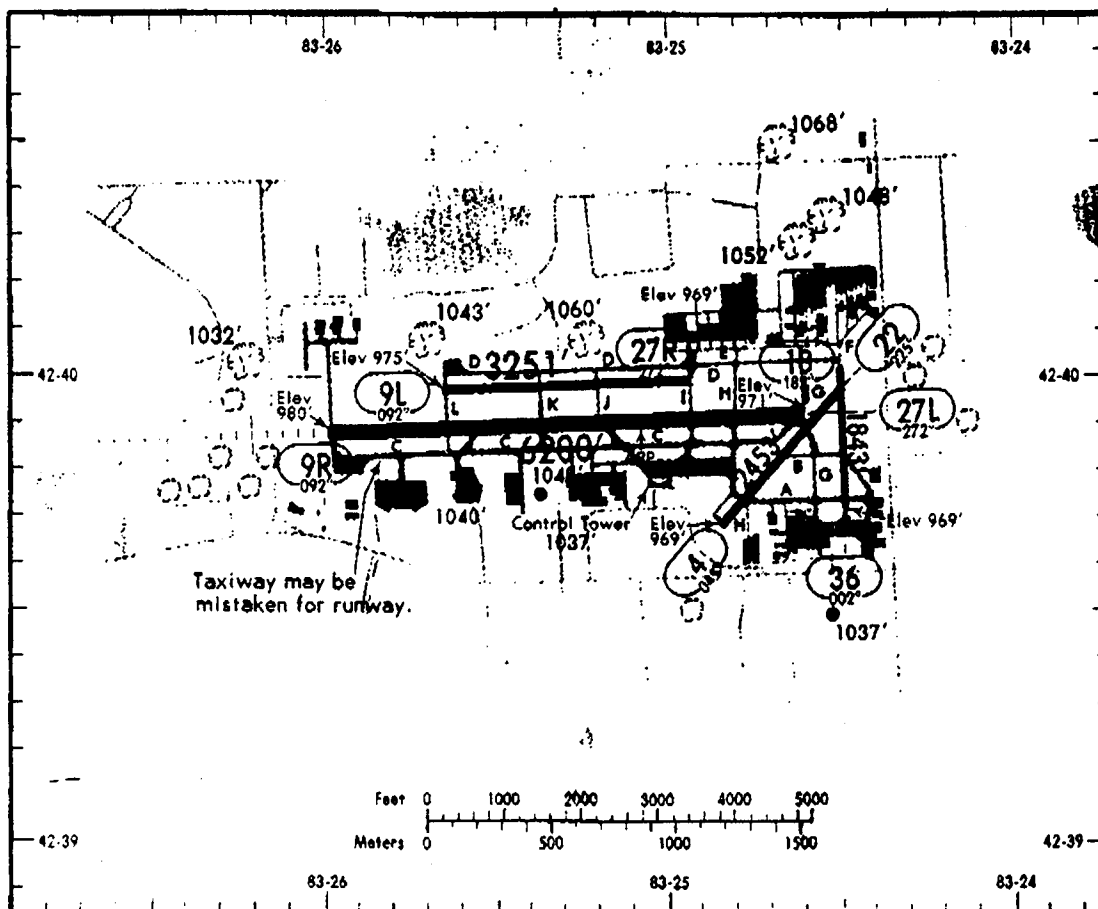
System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	-
Other	-
Total Displays	2

FY 93	REPLACE	R/W 05R
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PONTIAC MI (PTK)

AGL



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EXISTING

NEW GENERATION

09R 347AE
PTK TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 93	REPLACE	R/W 09R
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APPENDIX 5. ANE SITE LOCATIONS

AIRPORT LOCATION (LOCATION IDENTIFIER)

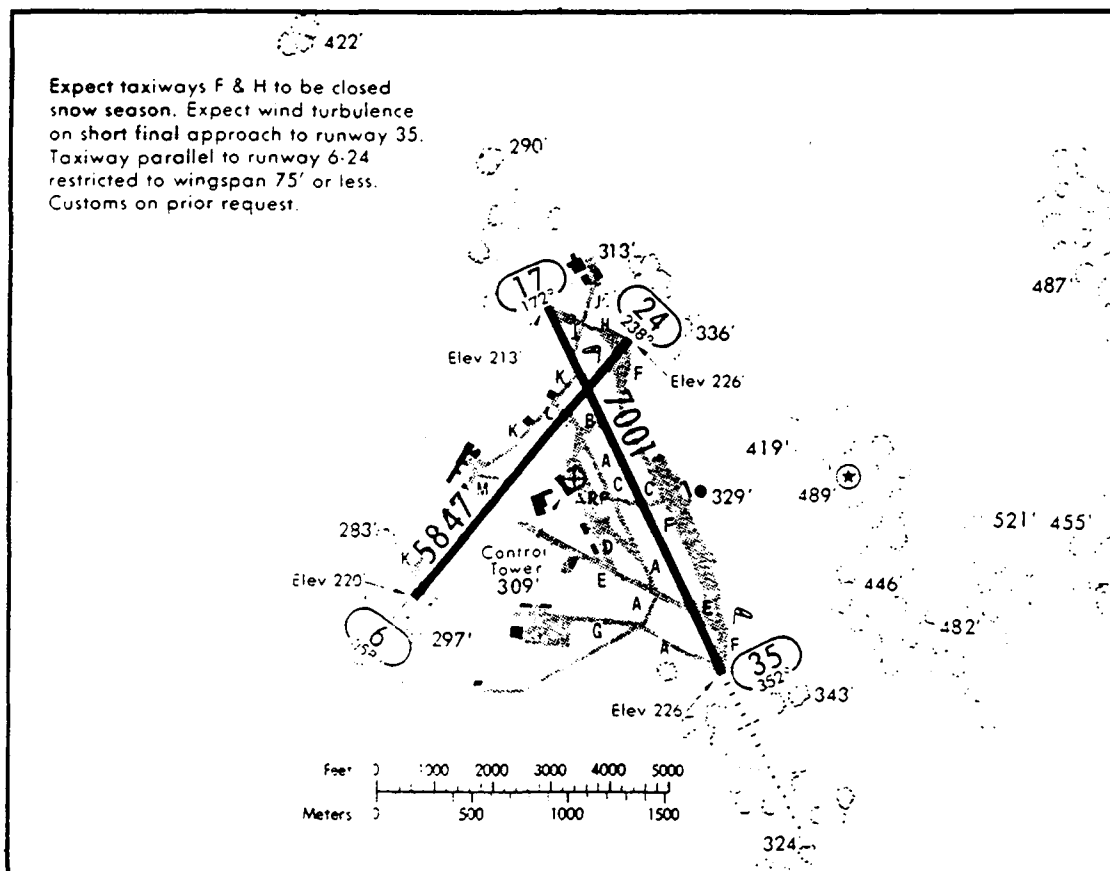
RESERVED FOR JEPPESEN
AIRPORT LAYOUT

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<u>EXISTING</u>		<u>NEW GENERATION</u>	
Runway - RVR Model No.		Runway Visibility System (1)	1
RVR Location IDENT.	TD, MP, RO (AS APPLICABLE)	Sensor Package (2)	5
		RLIM	1
		Displays	
	OTHER RVRs (AS APPLICABLE)	ATCT (a)	
		TRACON (b)	
		NWS (3) (c)	
		Other (d)	
		Total Displays (a + b + c + d)	
		(1) Basic RVR System, Only One per Airport Location	
		(2) Number of Existing RVR Sensors (minus 1)	
		(3) Graphic Recorder Quantities	

MANCHESTER NH (MHT)

ANE

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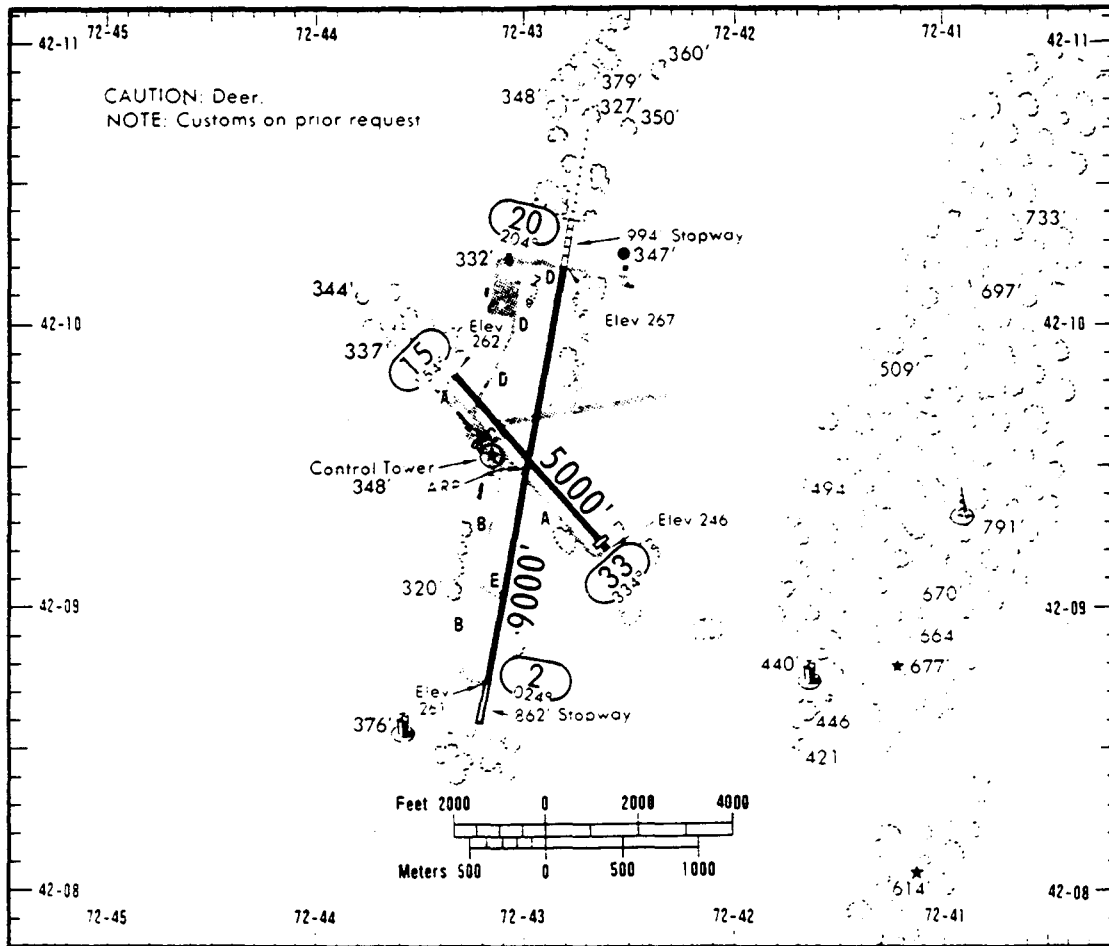
NONE

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	2	
NWS	-	
Other	-	
Total Displays		4

FY 85	ESTABLISH	R/W 35
-------	-----------	--------

WESTFIELD MA (BAF)

ANE



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EXISTING

NEW GENERATION

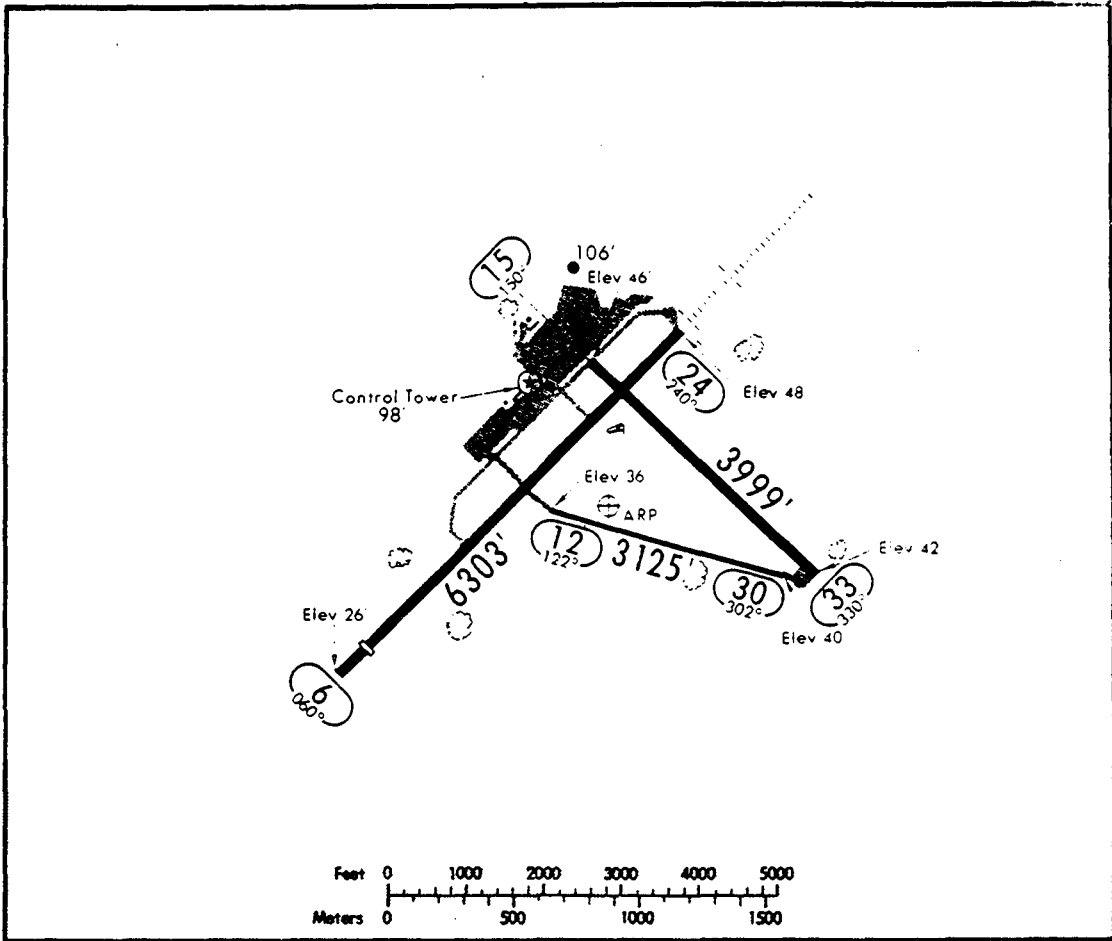
NONE

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	-
Other	-
Total Displays	2

FY 85	ESTABLISH	R/W 20
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NANTUCKET MA (ACK)

ANE



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EXISTING

NEW GENERATION

24 347AE
ACK TD

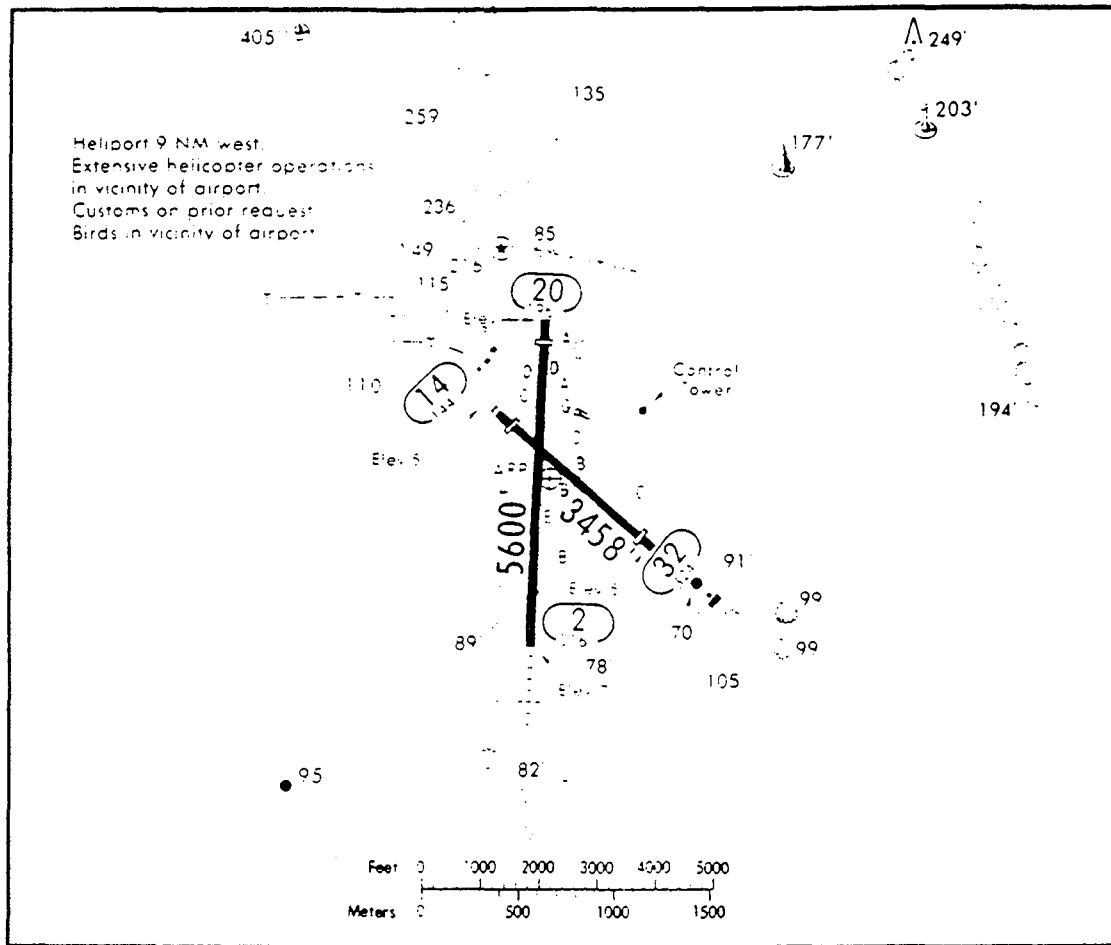
<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		1
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 88	ESTABLISH	R/W 06
-------	-----------	--------

8/10/88

NEW HAVEN CT (HVN)

ANE



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EXISTING

NEW GENERATION

NONE

System Elements

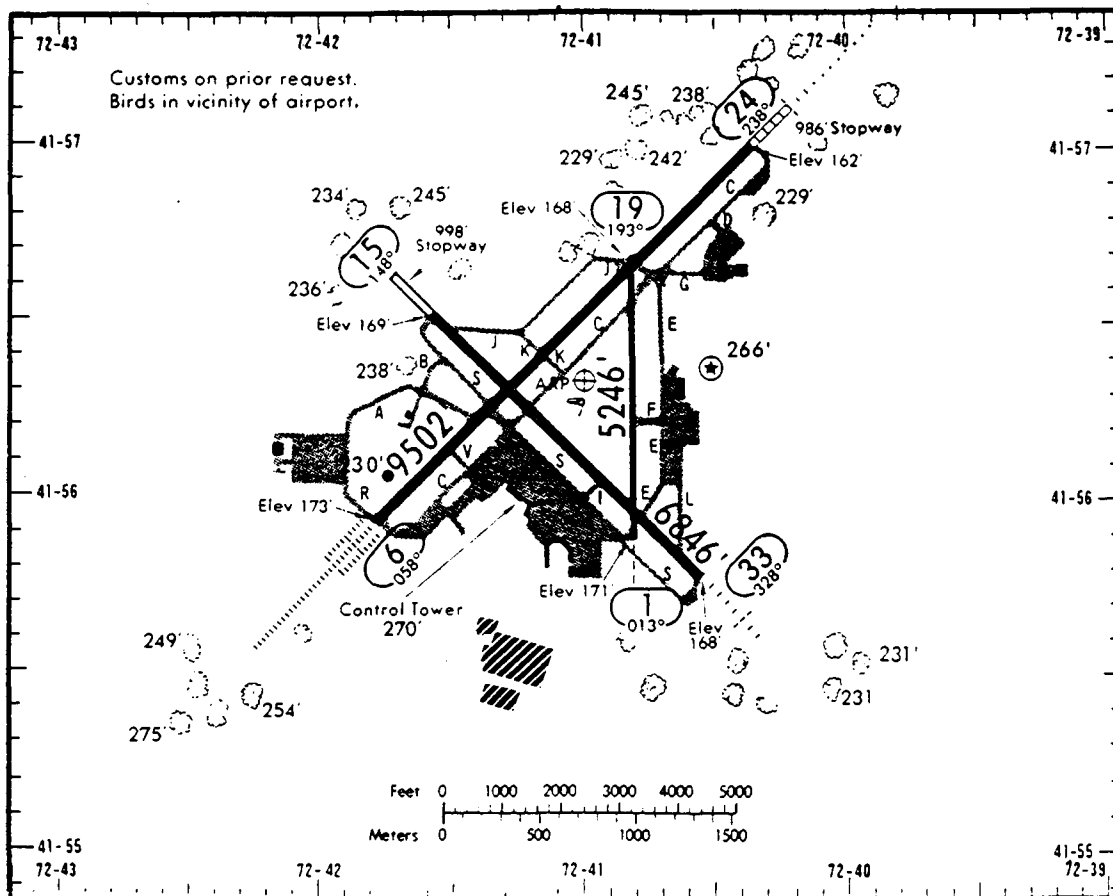
QTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	-
TRACON	-
NWS	-
Other	-
Total Displays	1

FY 88	ESTABLISH	R/W 02
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WINDSOR LOCKS CT (BDL)

ANE

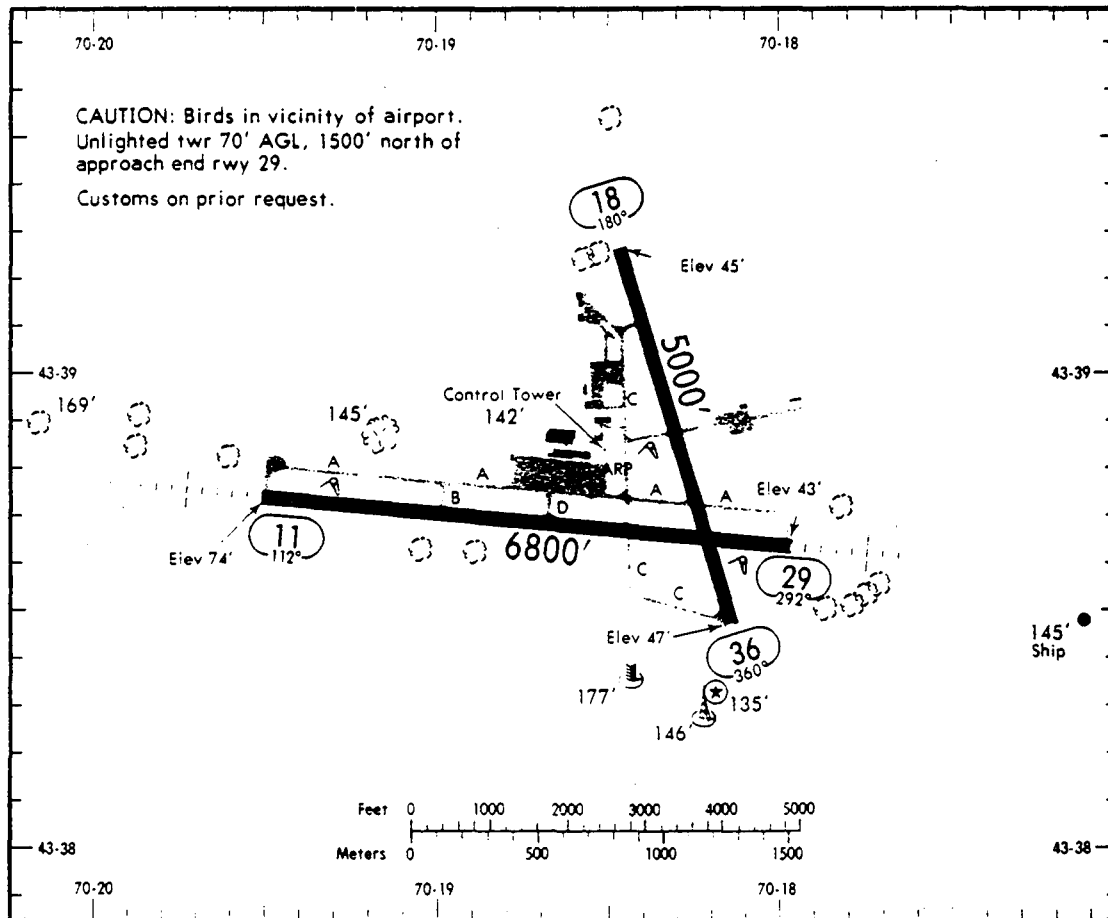
TJEPPESEN SANDERSON, INC., 1986, 1987
ALL RIGHTS RESERVEDEXISTINGNEW GENERATION

		<u>System Elements</u>	<u>QTY REQ'D</u>
06	<u>347AE</u>	Basic	1
BDL	TD	Sensor Packages	2
BDLM	MP	RLIM	-
BDLR	RO	Displays	
		ATCT	3
		TRACON	4
		NWS	1
		Other	-
		Total Displays	8

FY 93	REPLACE	R/W 06
-------	---------	--------

PORTLAND ME (PWM)

ANE



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EXISTING

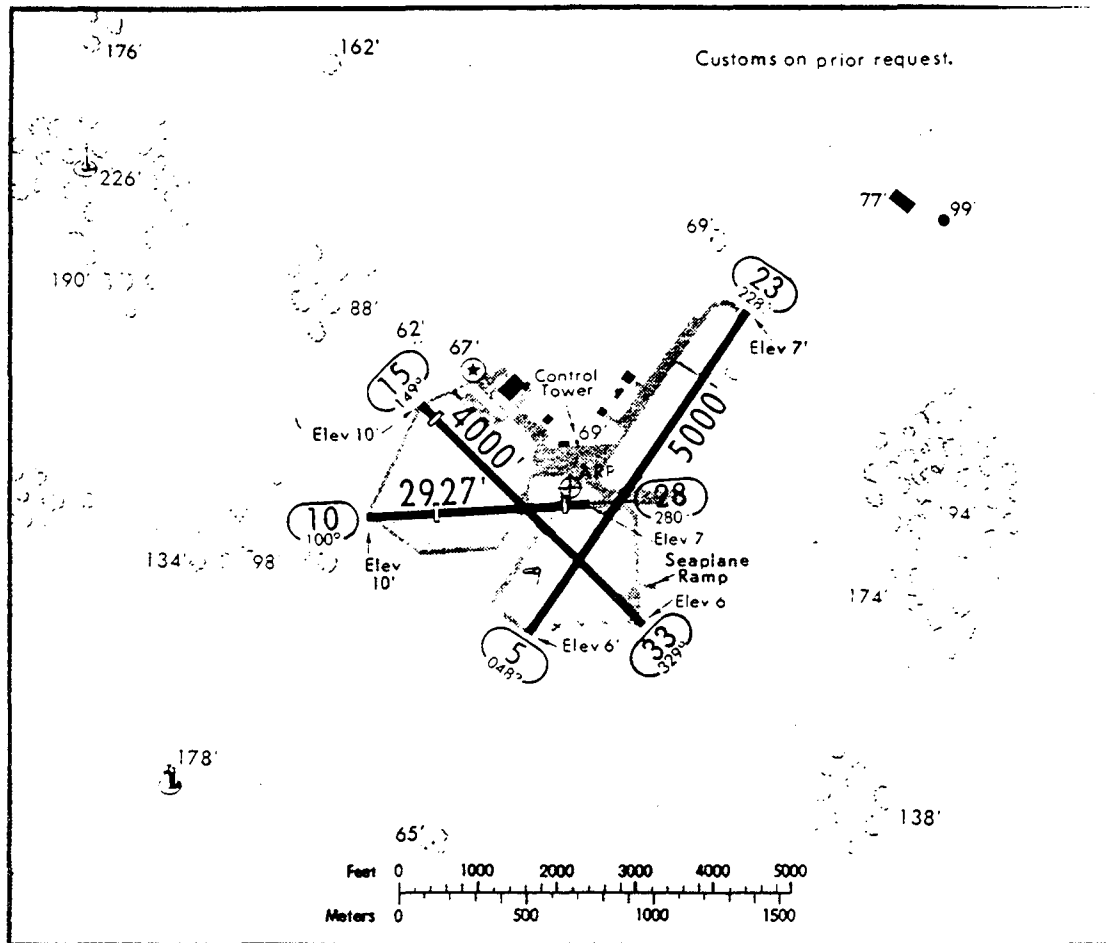
NEW GENERATION

	<u>347AE</u>	<u>System Elements</u>	<u>QTY REQ'D</u>
11			
PWM	TD	Basic	1
		Sensor Packages	1
29	<u>347AE</u>	RLIM	-
	TD	Displays	
		ATCT	3
		TRACON	4
		NWS	1
		Other	-
		Total Displays	8

FY 93	REPLACE	R/W 11/29
-------	---------	-----------

GROTON CT (TMU)

ANE

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23

347AE

TD

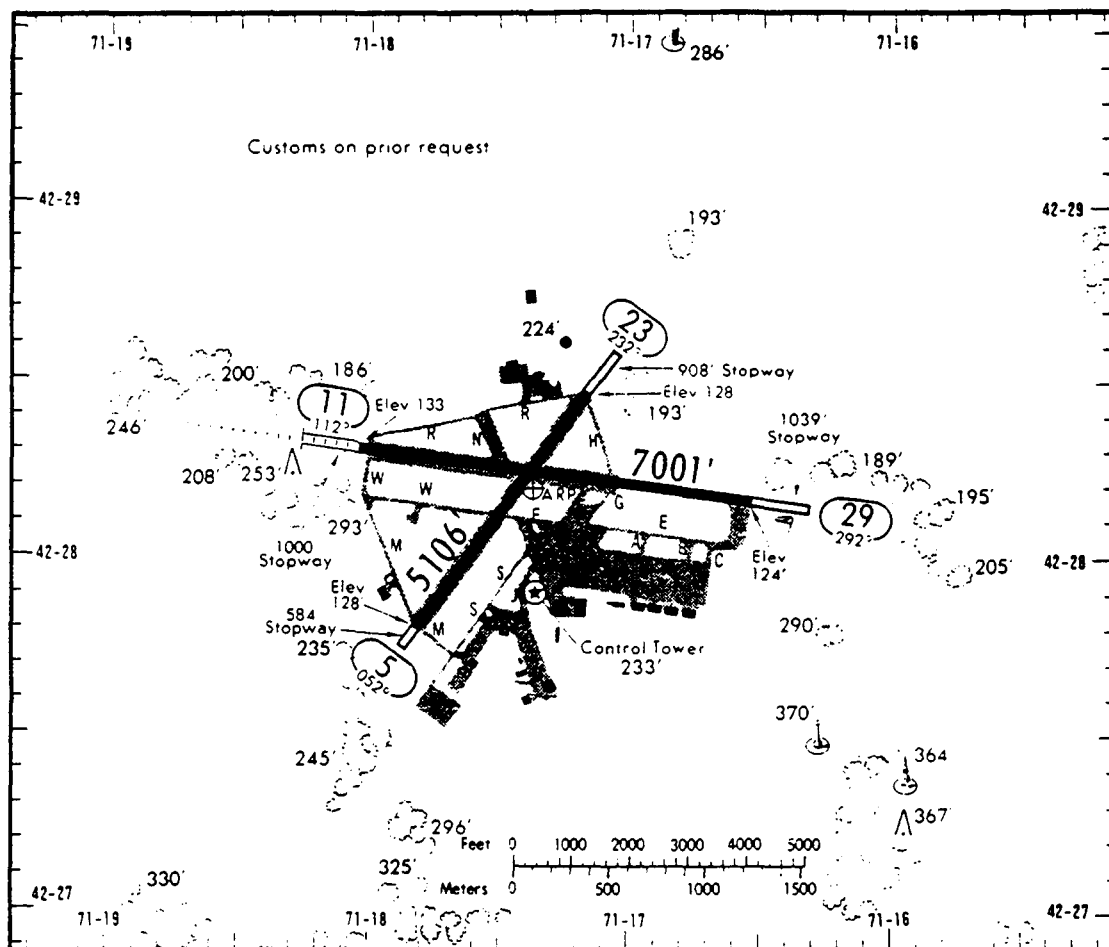
System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	-
Other	-
Total Displays	2

FY 93	REPLACE	R/W 23
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BEDFORD MA (BED)

ANE



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EXISTING

NEW GENERATION

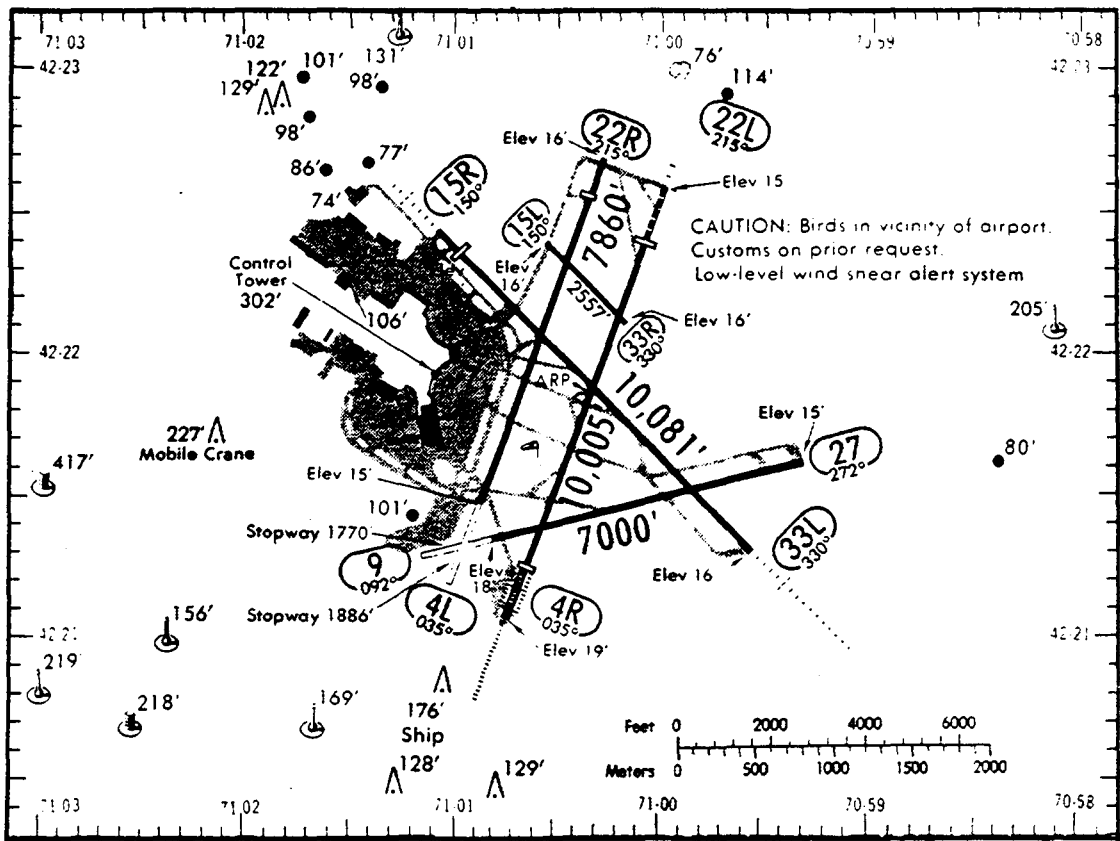
11 347AE
BED TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 93	REPLACE	R/W 11
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BOSTON MA (BOS)

ANE



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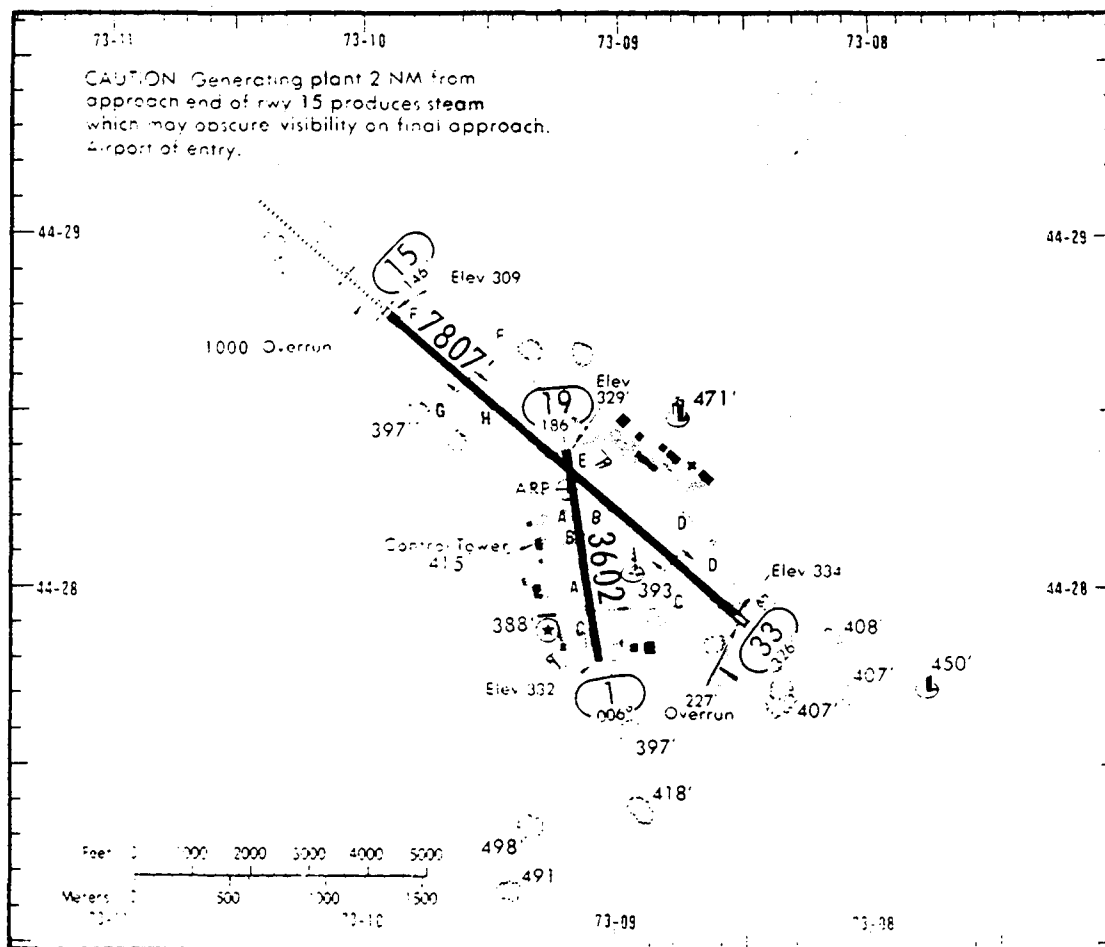
EXISTING

NEW GENERATION

		System Elements	QTY REQ'D
04R	<u>347AE</u>	Basic	1
BOS	TD	Sensor Packages	4
BOSM	MP	RLIM	1
BOSR	RO	Displays	
33L	<u>347AE</u>	ATCT	4
LIP	TD	TRACON	5
		NWS	1
15R	<u>347AE</u>	Other	-
MDC	TD	Total Displays	10

FY 93	REPLACE	R/W 15R/33L, 04R
-------	---------	------------------

ANE



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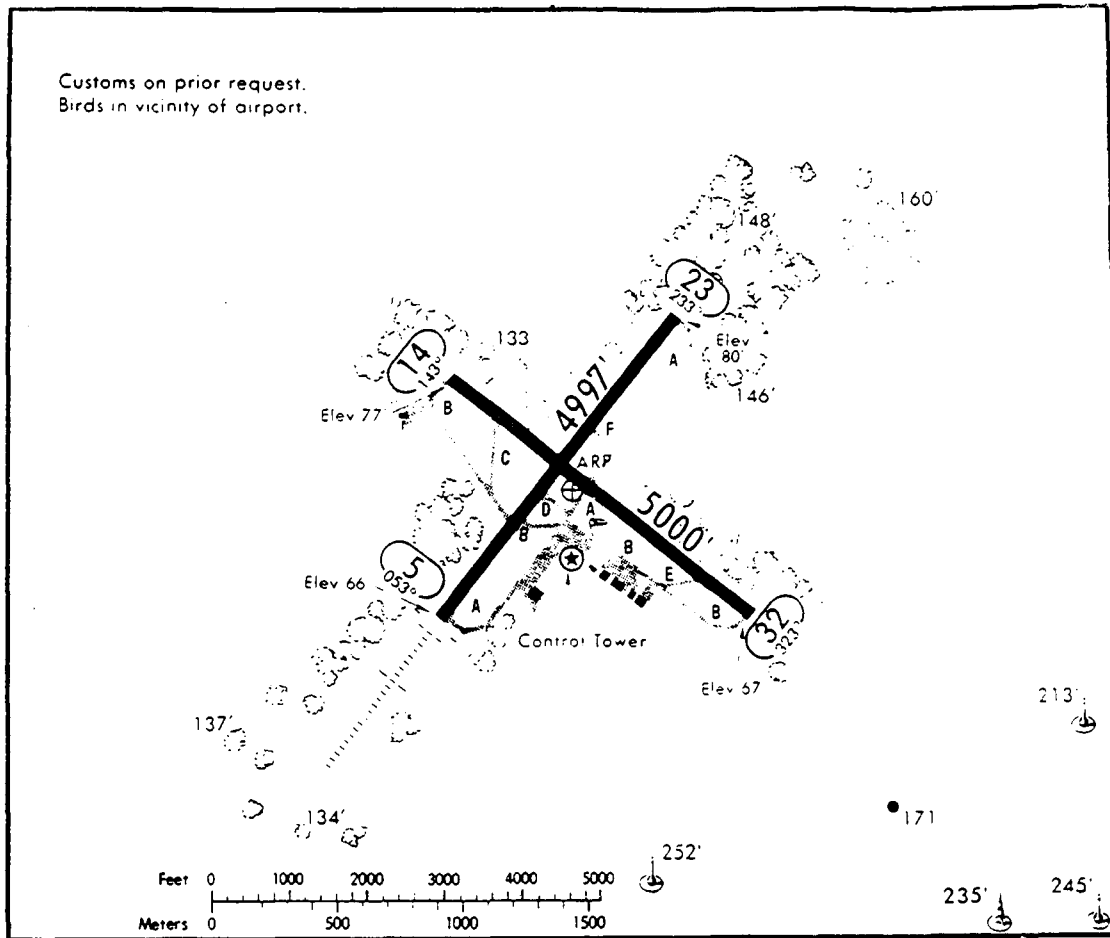
NEW GENERATION

15	<u>347AE</u>	<u>System Elements</u>	<u>QTY REQ'D</u>
BTVR	RO	Basic	1
BTVT	TD	Sensor Packages	1
		RLIM	—
		Displays	
		ATCT	2
		TRACON	2
		NWS	1
		Other	—
		Total Displays	5

FY 93	REPLACE	R/W 15
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NEW BEDFORD MA (EWB)

ANE

JEPPESSEN SANDERSON, INC., 1986, 1987
ALL RIGHTS RESERVEDEXISTINGNEW GENERATION05 347AE

EWB TD

System ElementsQTY REQ'D

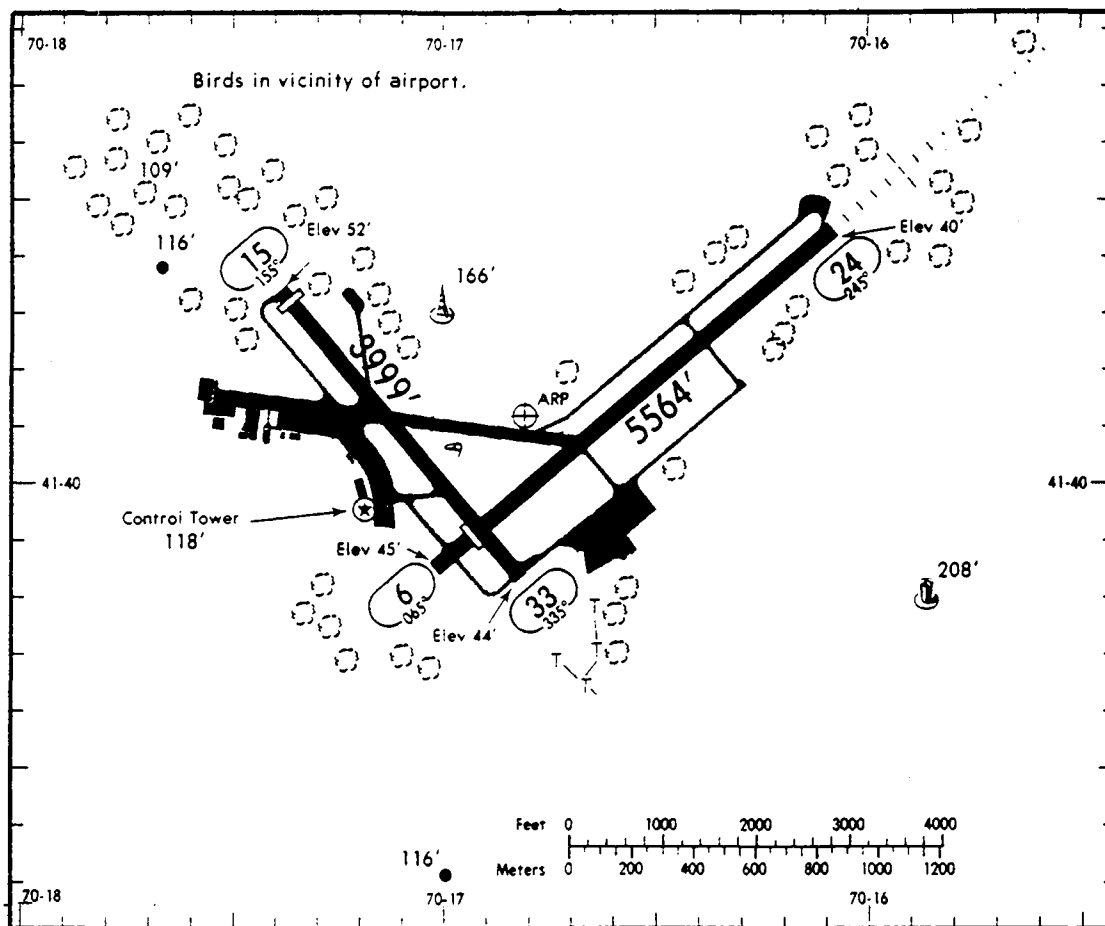
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	-
Other	-
Total Displays	2

FY 93	REPLACE	R/W 05
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8/10/88

HYANNIS MA (HYA)

ANE



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EXISTING

NEW GENERATION

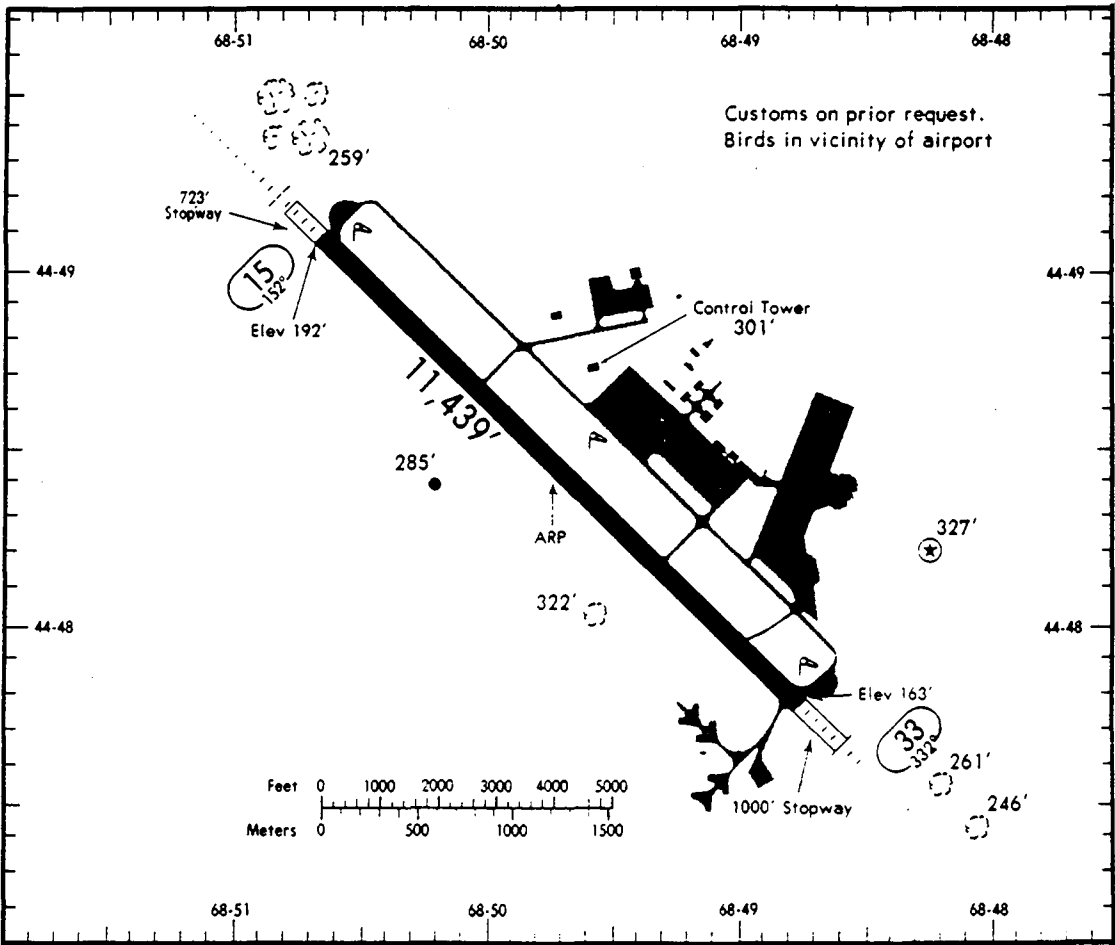
24 347AE
HYA TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 93	REPLACE	R/W 24
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BANGOR ME (BGR)

ANE



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EXISTING

NEW GENERATION

15 347AE
JVH TD
JVHM MP
JVHR RO

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		2
RLIM		-
Displays		
ATCT	2	
TRACON	3	
NWS	-	
Other	-	
Total Displays		5

FY 93	REPLACE	R/W 15
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ANE

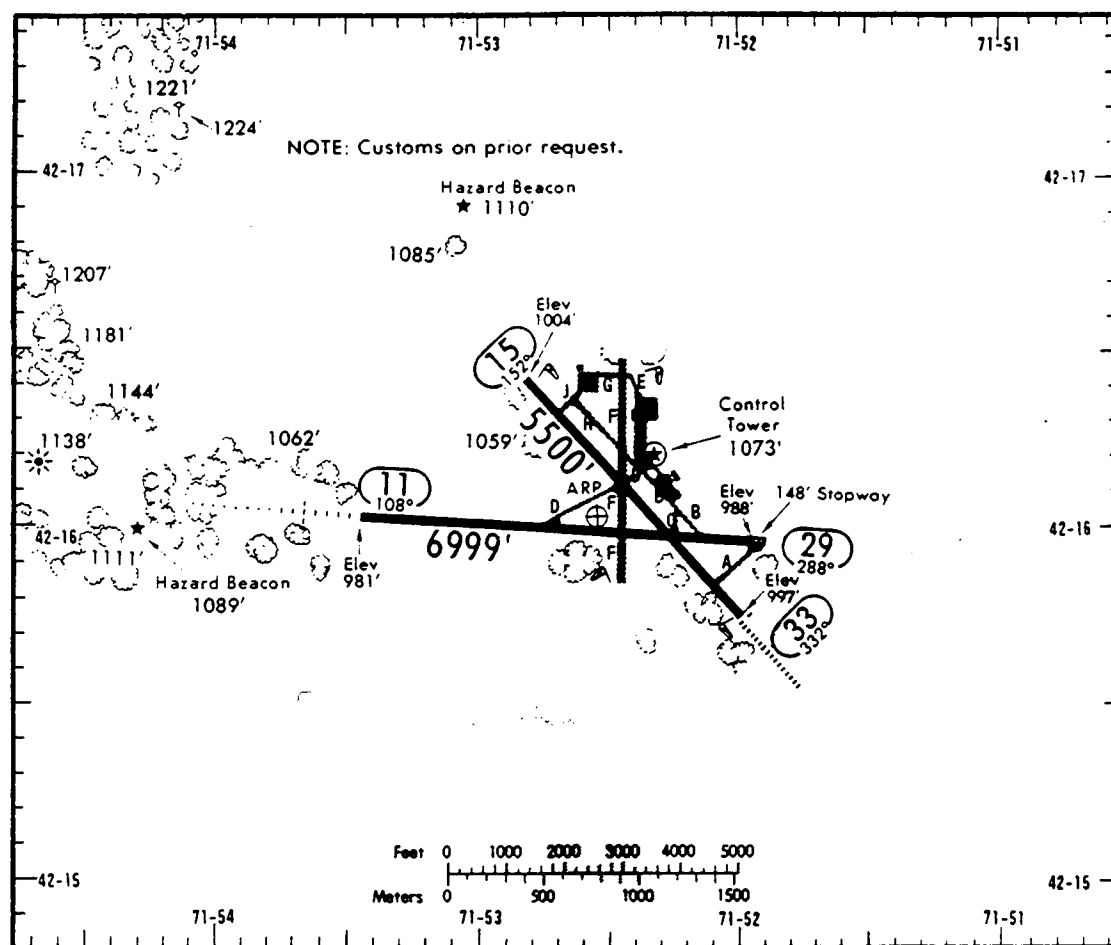


NEW GENERATION

FY 93	REPLACE	R/W 05R
-------	---------	---------

WORCESTER MA (ORM)

ANE

JEPPESSEN SANDERSON, INC., 1986, 1987
ALL RIGHTS RESERVEDEXISTINGNEW GENERATION11 347AE

RSR TD

System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	-
Other	-
Total Displays	2

FY 93	REPLACE	R/W 11
-------	---------	--------

APPENDIX 6. ANM SITE LOCATIONS

AIRPORT LOCATION (LOCATION IDENTIFIER)

RESERVED FOR JEPPESEN
AIRPORT LAYOUT

JEPPESEN SANDERSON, INC., 1986, 1987.
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EXISTING

Runway - RVR Model No.	
RVR Location IDENT.	TD, MP, RO (AS APPLICABLE)
OTHER RVRs (AS APPLICABLE)	

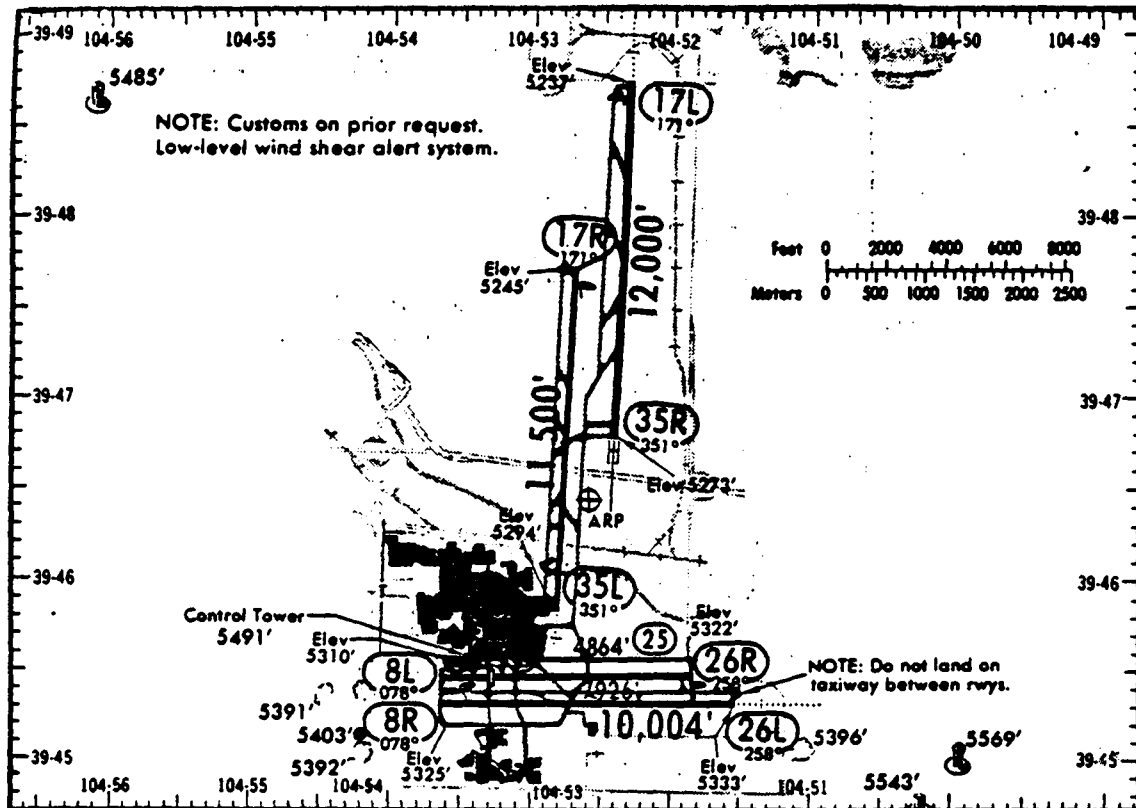
NEW GENERATION

Runway Visibility System (1)	1
Sensor Package (2)	5
RLIM	1
Displays	
ATCT (a)	
TRACON (b)	
NWS (3) (c)	
Other (d)	
Total Displays (a + b + c + d)	

- (1) Basic RVR System, Only One per Airport Location
- (2) Number of Existing RVR Sensors (minus 1)
- (3) Graphic Recorder Quantities

DENVER CO (DEN)

ANM



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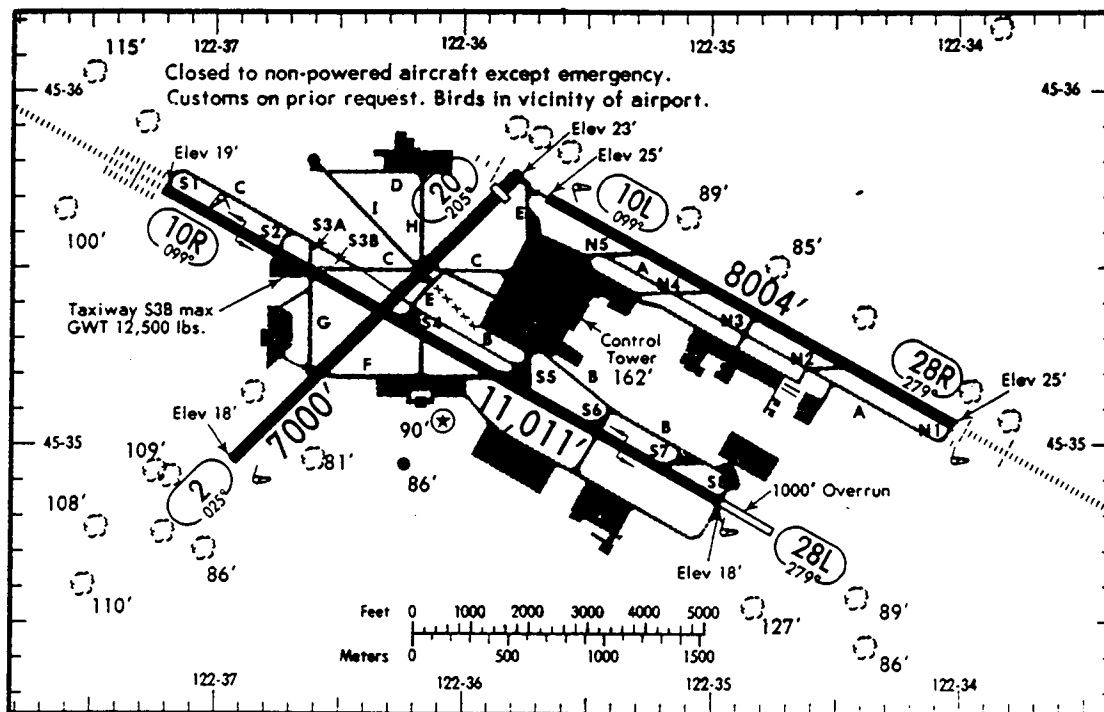
EXISTINGNEW GENERATION

	<u>EXISTING</u>		<u>NEW GENERATION</u>		<u>QTY REQ'D</u>
26L	<u>347AA</u>	35L	<u>347AA</u>	<u>System Elements</u>	
DEN	TD	SPOA	TD	Basic	1
		SPOB	AB	Sensor Packages	6
35R	<u>347AD</u>			RLIM	2
				Displays	
RRV	TD			ATCT	5
RRVA	MP			TRACON	4
RRVB	RO			NWS	1
				Other	-
				Total Displays	10

FY 84	CAT IIIb	R/W 35R
FY 86	ESTABLISH	R/W 08R
FY 86	REPLACE	R/W 35L

PORTLAND OR (PDX)

ANM



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EXISTING

NEW GENERATION

10R 347AD

PDX TD
PDXA MP
PDXB RO

28R 347AD

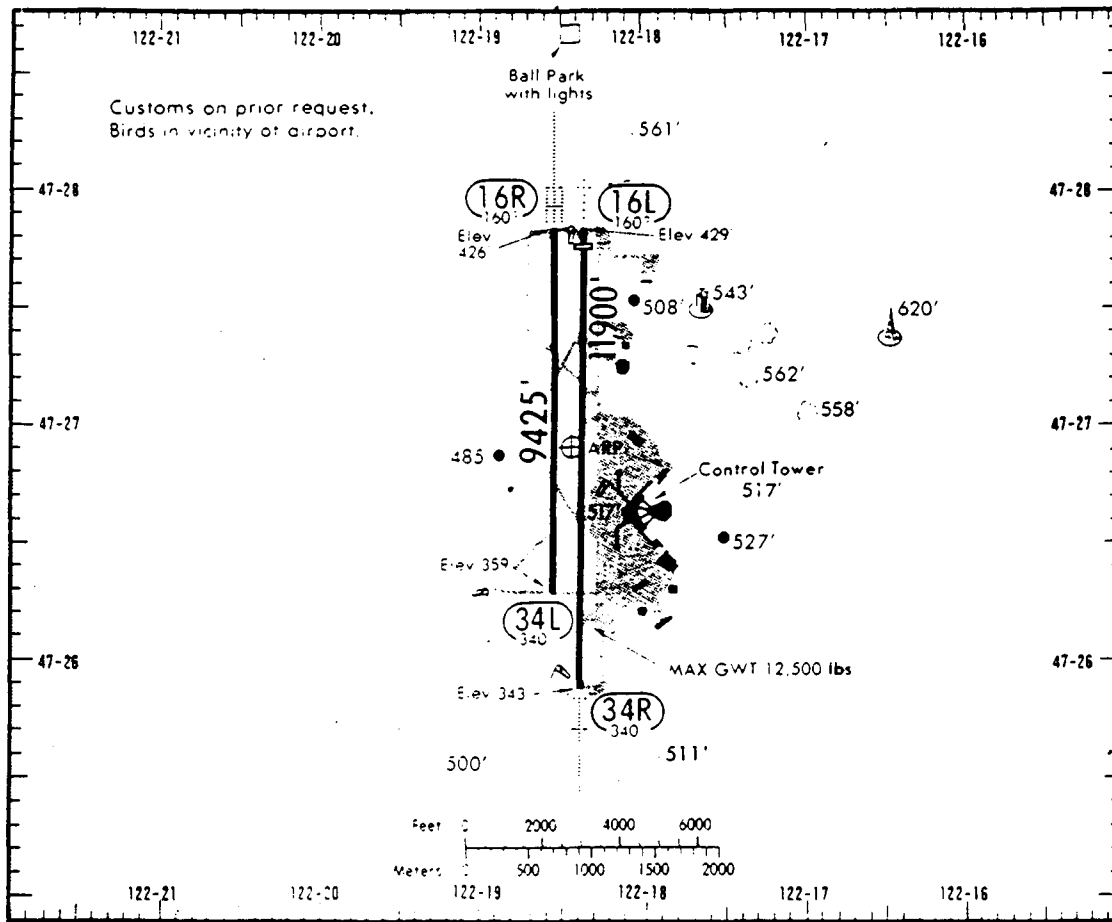
IAP TD

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	4
RLIM	1
Displays	
ATCT	4
TRACON	6
NWS	1
Other	-
Total Displays	11

FY 84	CAT IIIB	R/W 10R
FY 86	ESTABLISH	R/W 10L
FY 86	REPLACE	R/W 28R

SEATTLE WA (SEA)

ANM

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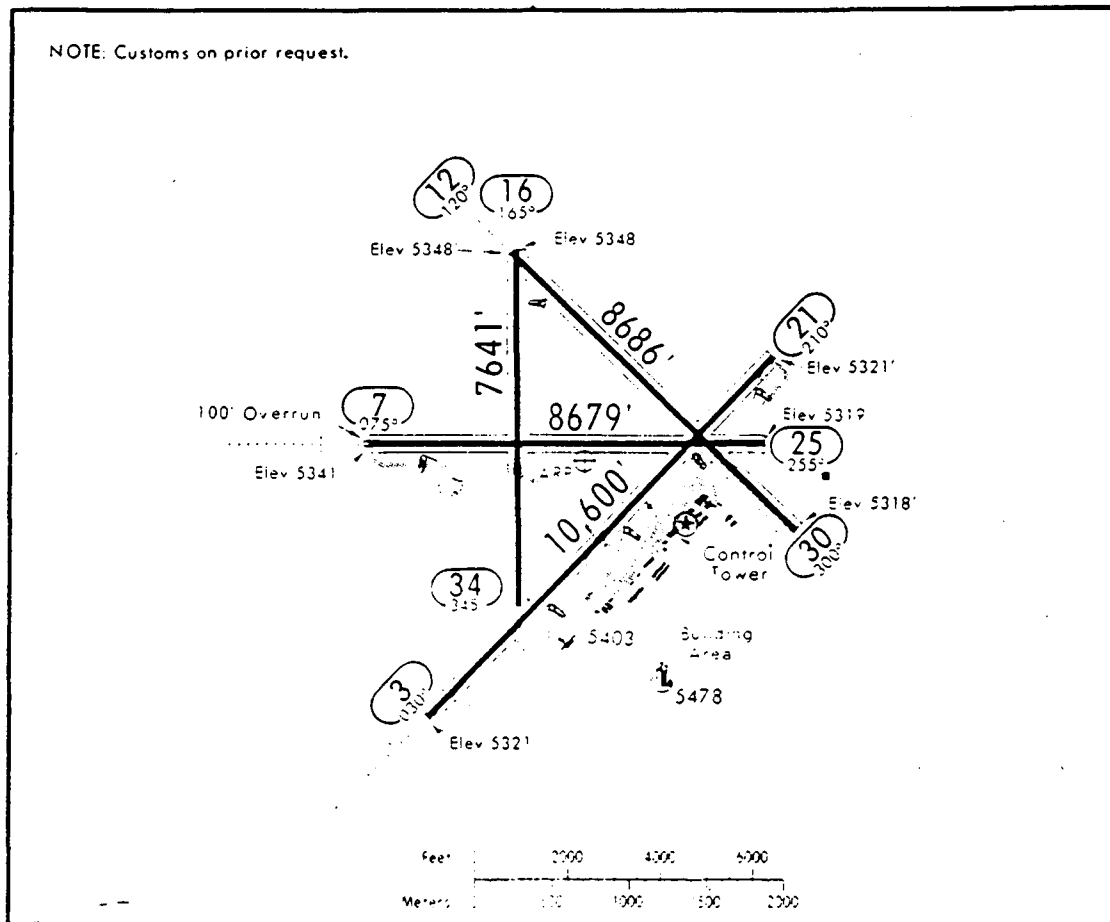
34R 347AE
SEA TD
16R 347AE
SZI TD
SZIA RO
SZIB MP

System Elements	QTY REQ'D
Basic	1
Sensor Packages	3
RLIM	1
Displays	
ATCT	3
TRACON	4
NWS	1
Other	-
Total Displays	8

FY 84	CAT IIb	R/W 16R
-------	---------	---------

CASPER WY (CPR)

ANM



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EXISTING

NEW GENERATION

07 347AG
CPR TD

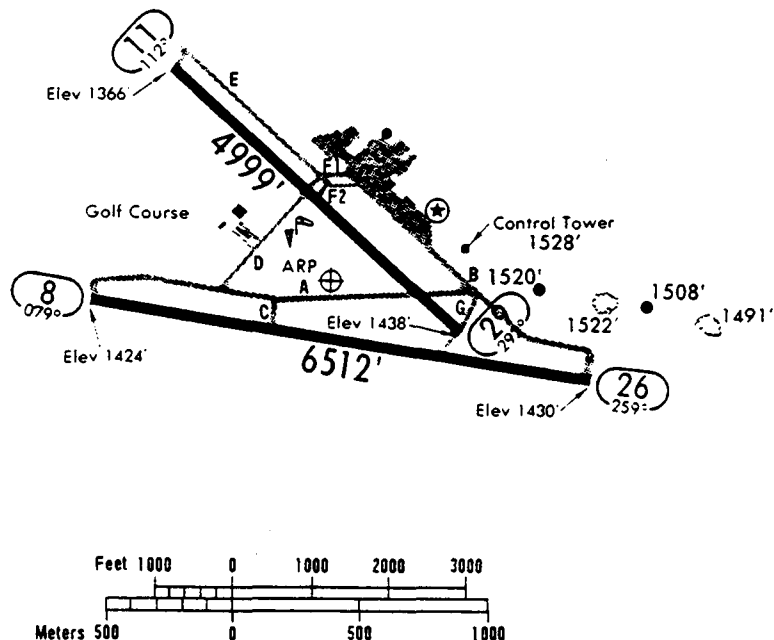
<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		1
RLIM		1
Displays		
ATCT	2	
TRACON	2	
NWS	1	
Other	-	
Total Displays		5

FY 84	ESTABLISH	R/W 03
FY 86	REPLACE	R/W 07

LEWISTON ID (LWS)

ANM

NOTE: Rws 8 & 11 right traffic pattern.

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NONE

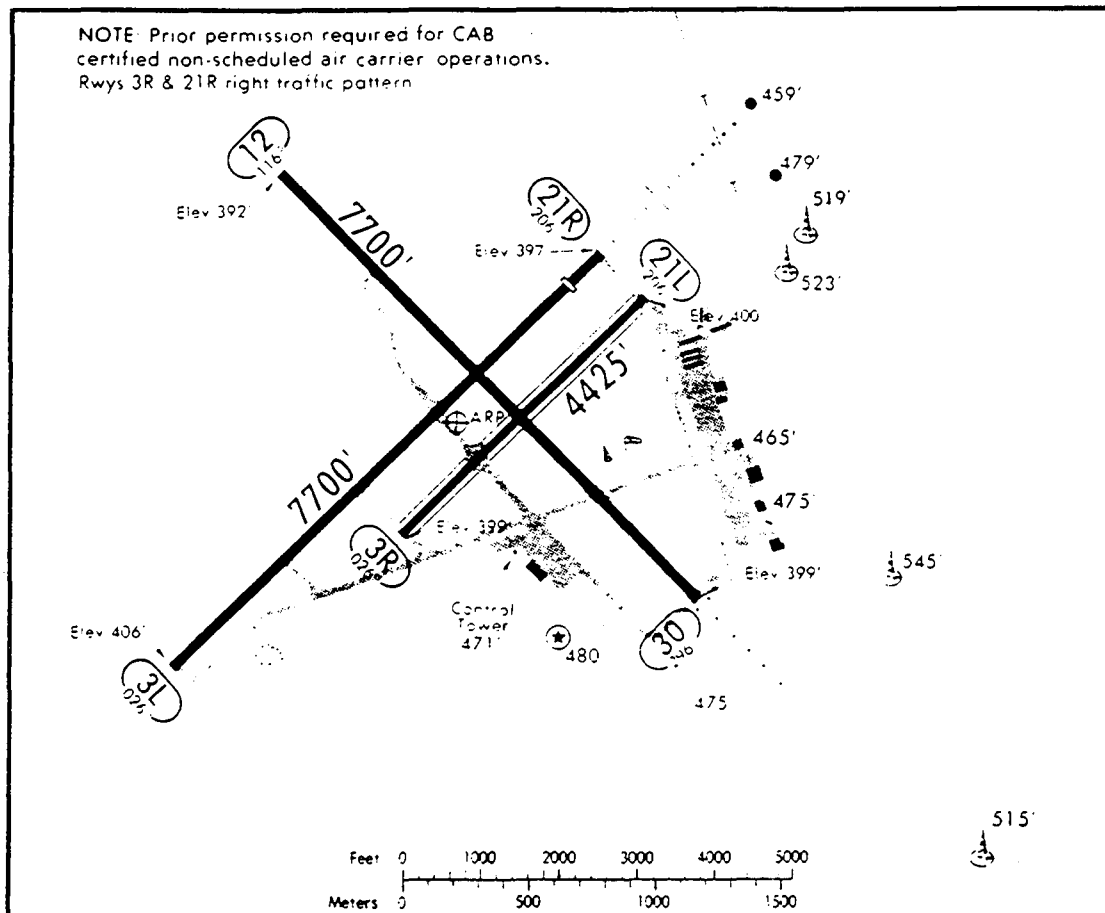
System ElementsQTY REQ'D

Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 84	ESTABLISH	R/W 26
-------	-----------	--------

PASCO WA (PSC)

ANM



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EXISTING

NEW GENERATION

NONE

System Elements

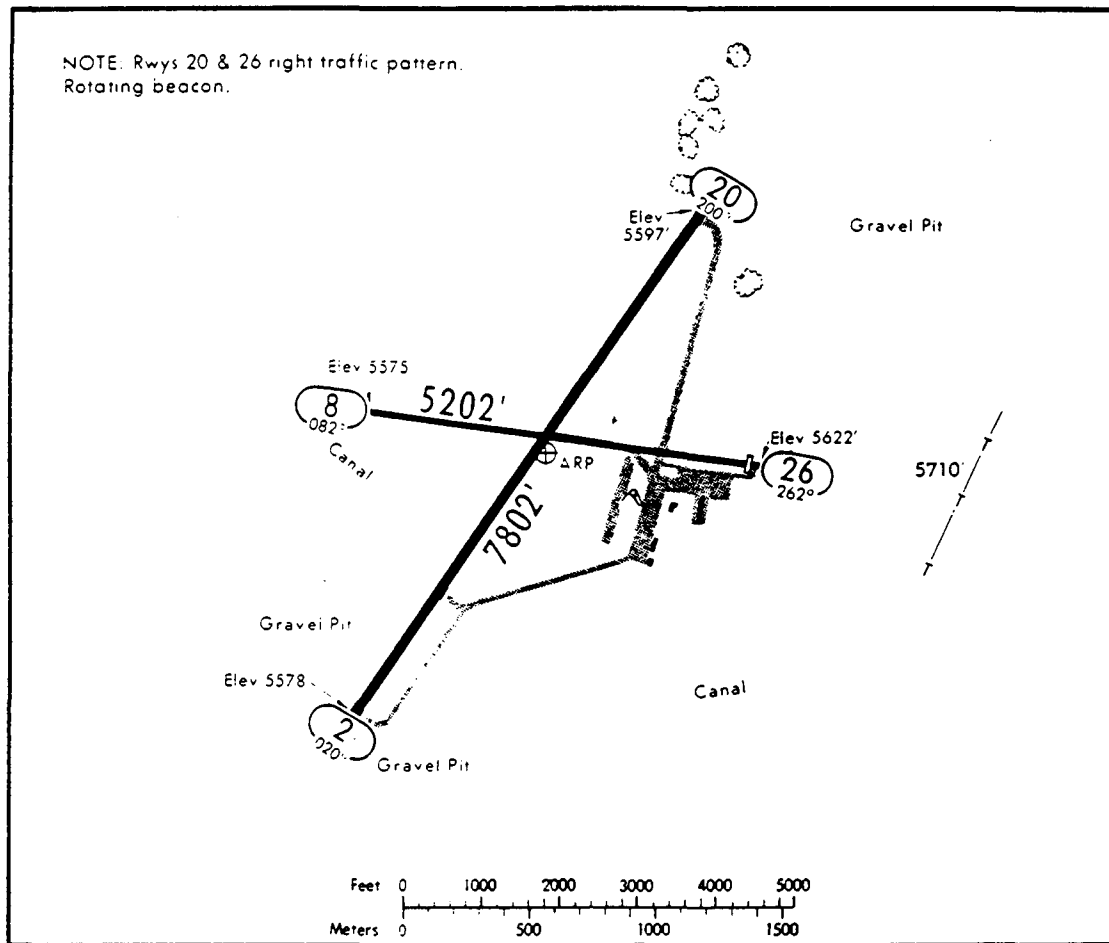
QTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	-
Other	-
Total Displays	2

FY 84	ESTABLISH	R/W 21R
-------	-----------	---------

CEDAR CITY UT (CDC)

ANM



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EXISTINGNEW GENERATION

NONE

System ElementsQTY REQ'D

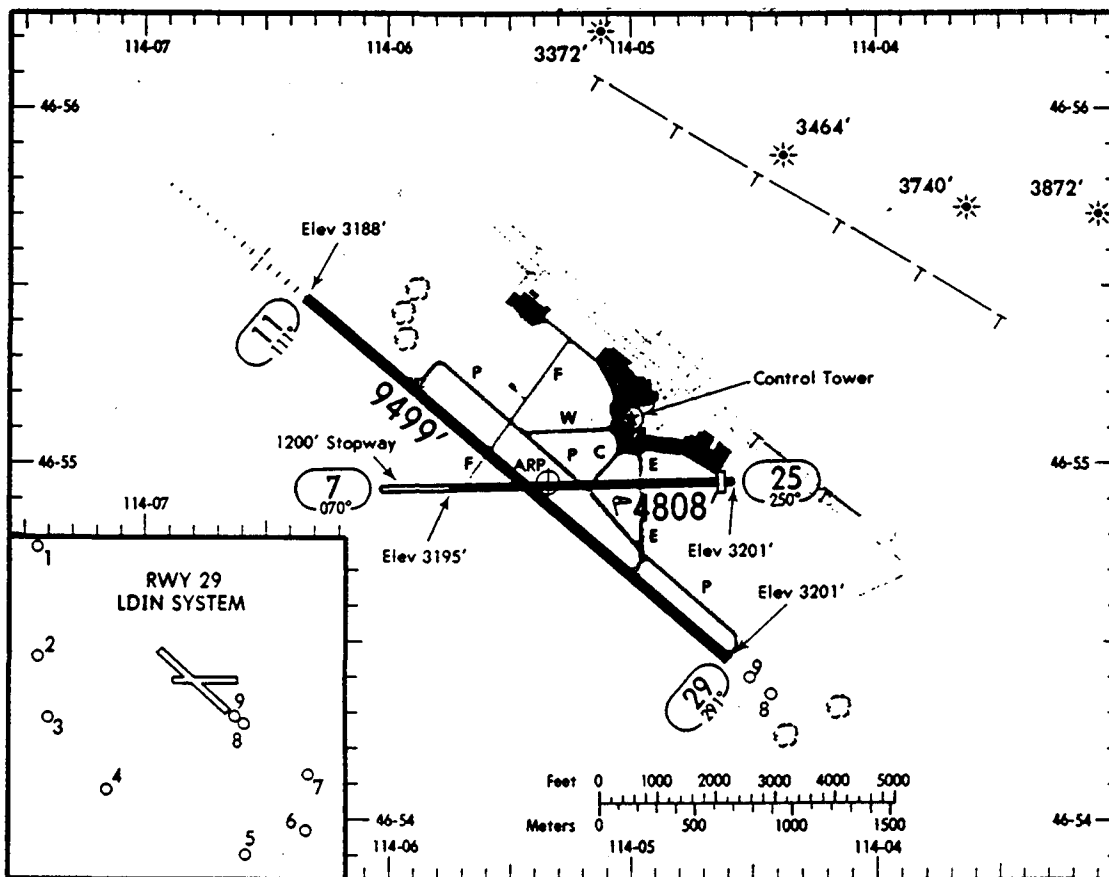
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	-
Other	-
Total Displays	2

FY 85	ESTABLISH	R/W 22
-------	-----------	--------

8/10/88

MISSOULA MT (MSO)

ANM



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EXISTING

NEW GENERATION

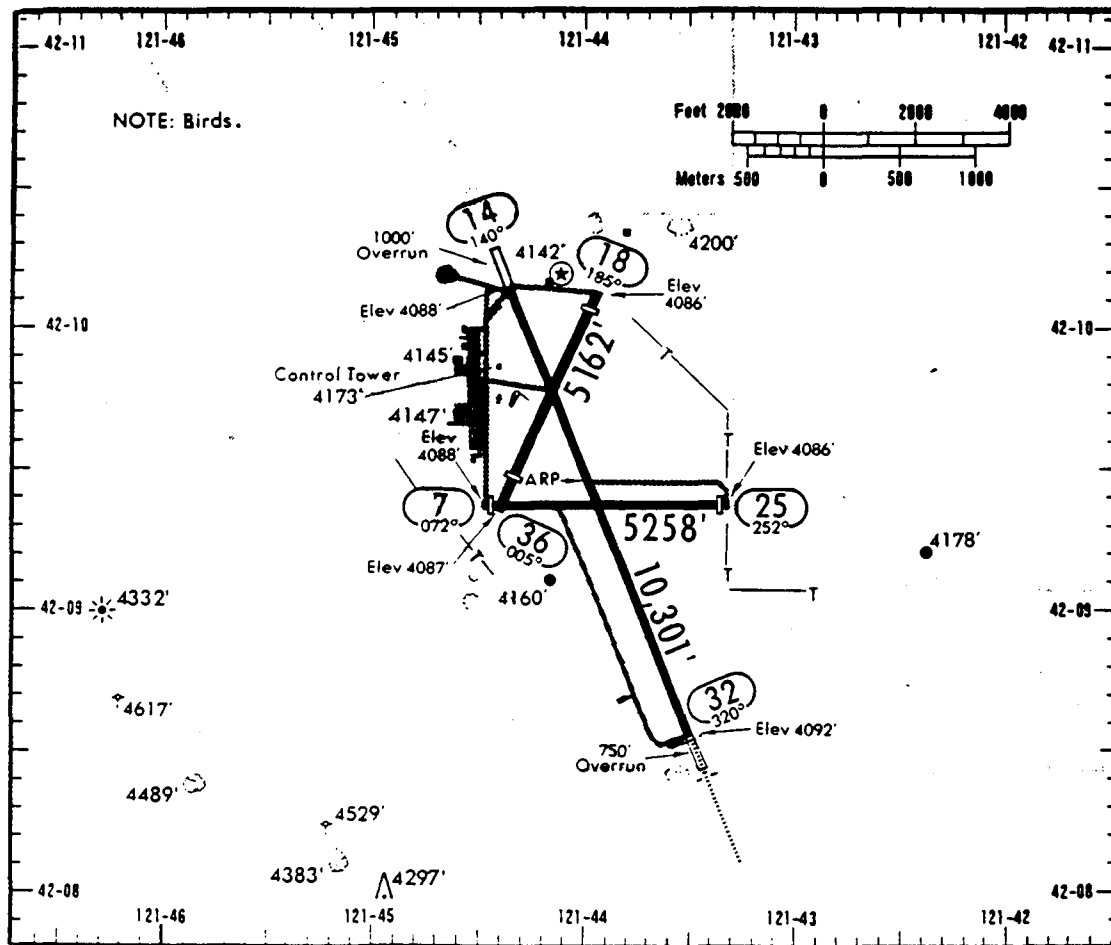
NONE

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	4	
TRACON	-	
NWS	-	
Other	-	
Total Displays		4

FY 85	ESTABLISH	R/W 11
-------	-----------	--------

KLAMATH FALLS OR (LMT)

ANM



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EXISTINGNEW GENERATION32 347AC

LMT TD

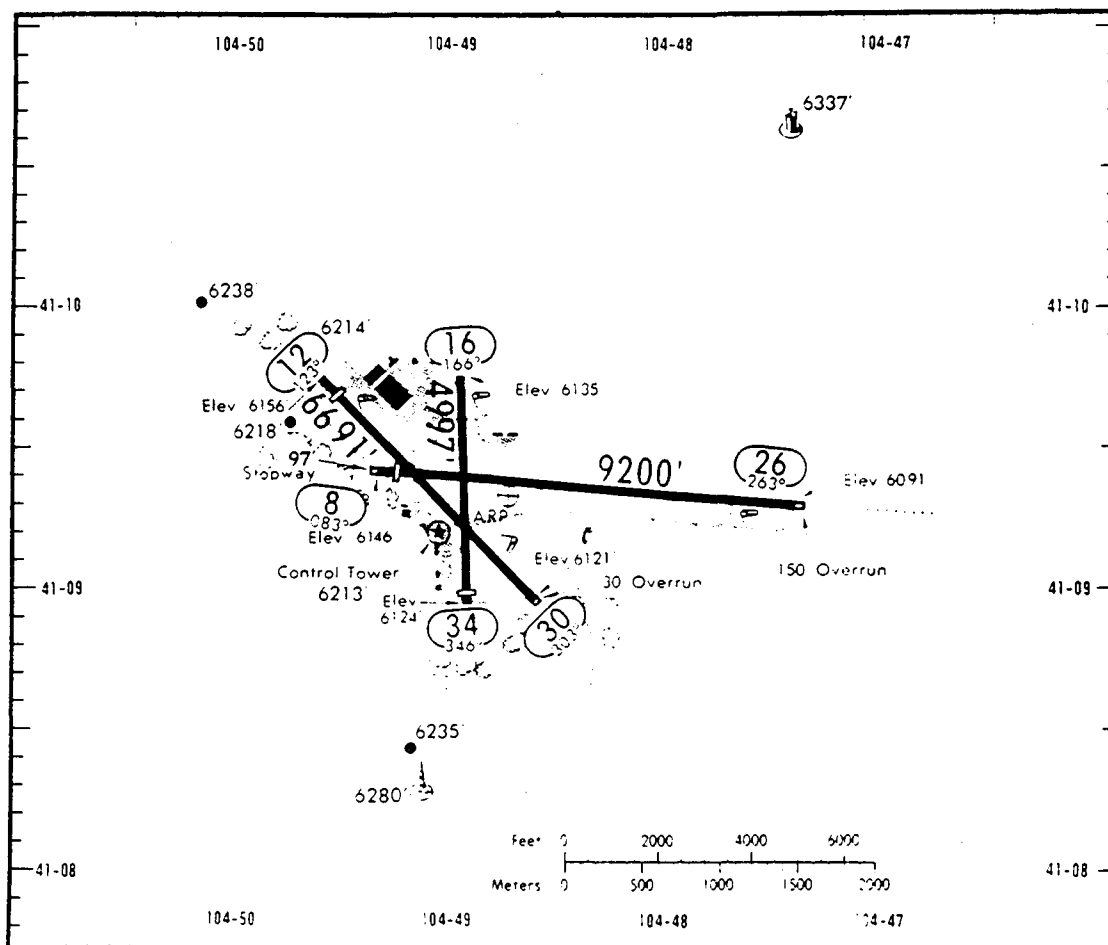
System Elements QTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	-
Other	-
Total Displays	2

FY 85	REPLACE	R/W 32
-------	---------	--------

CHEYENNE WY (CYS)

ANM



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EXISTING

NEW GENERATION

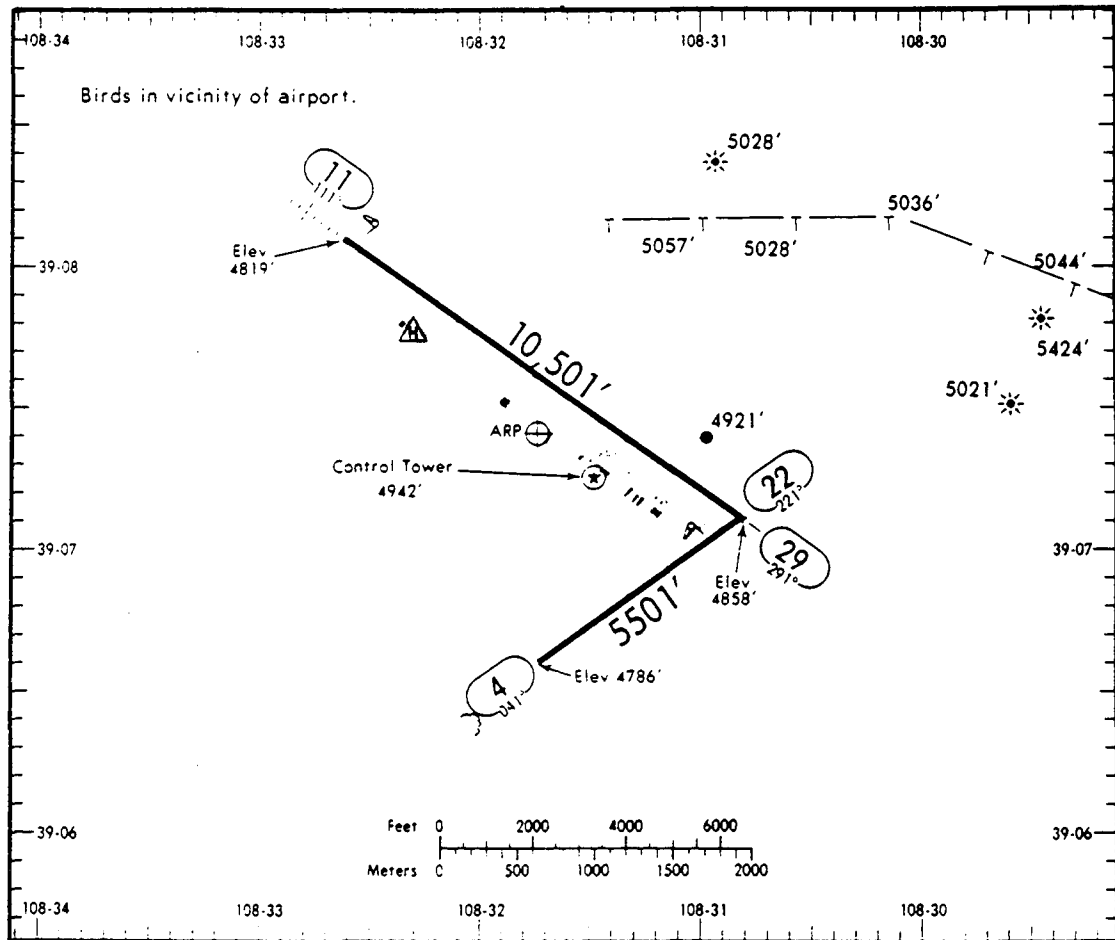
26 34711
CYS TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	1	
Other	-	
Total Displays		3

FY 85	CONVERT RVV	R/W 26
-------	-------------	--------

GRAND JUNCTION CO (GJT)

ANM



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EXISTINGNEW GENERATION

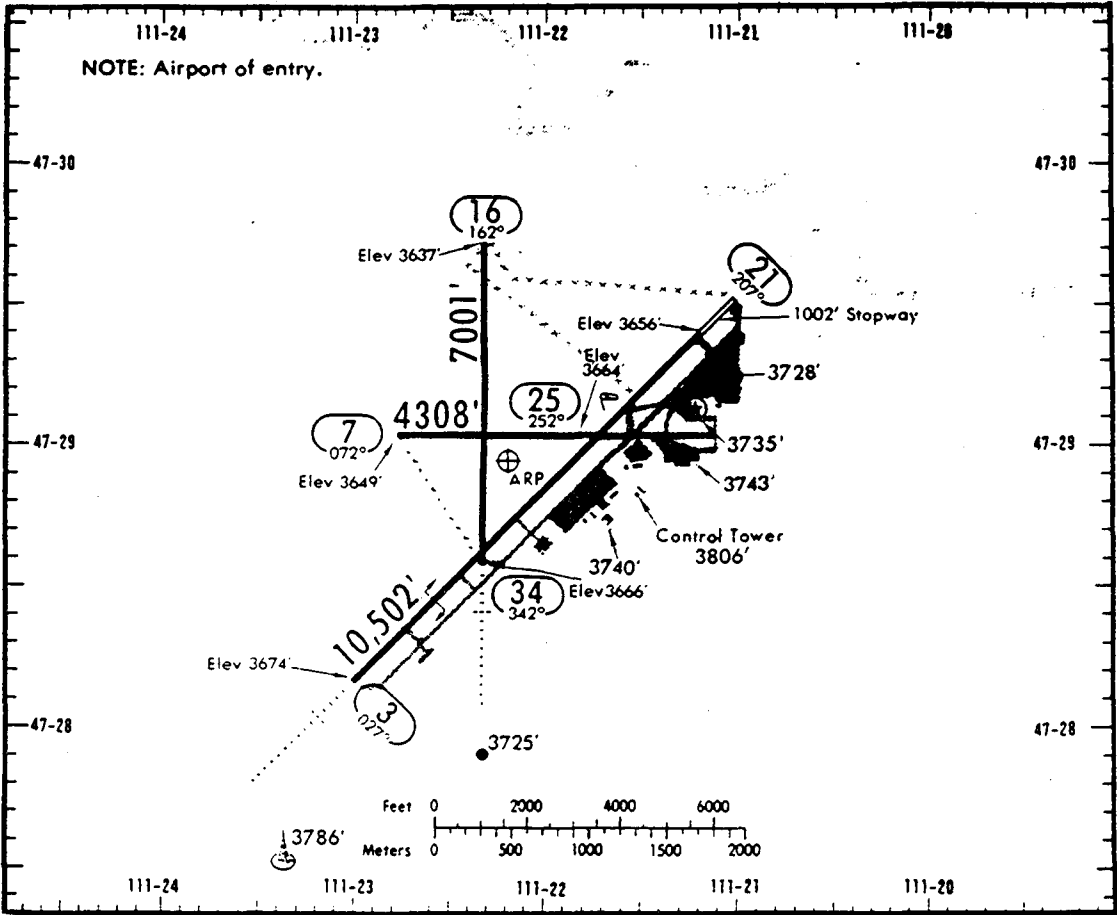
11 34711
GJT TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	1	
Other	-	
Total Displays		3

FY 85	CONVERT RVV	R/W 11
-------	-------------	--------

GREAT FALLS MT (GTF)

ANM



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EXISTING

NEW GENERATION

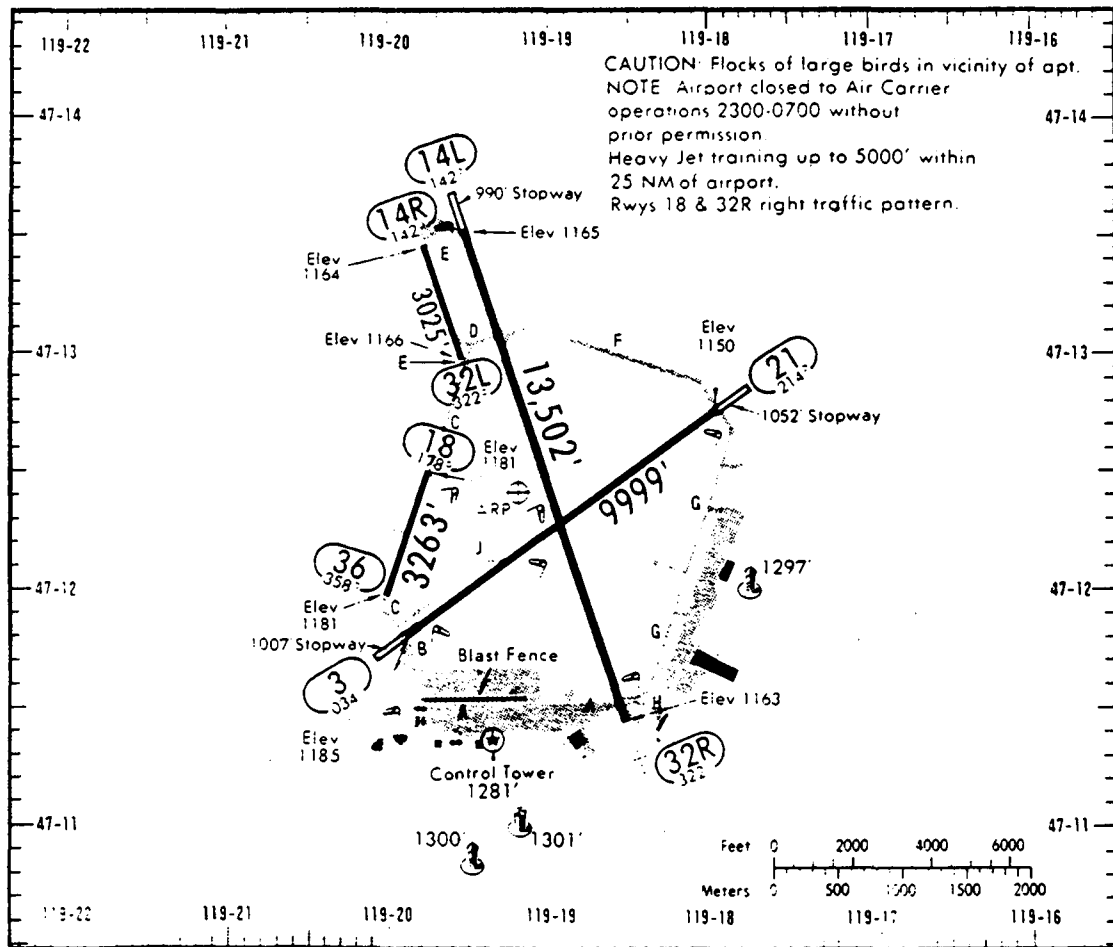
34 34711
GTF TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	2	
NWS	1	
Other	-	
Total Displays		5

FY 85	CONVERT RVV	R/W 34
-------	-------------	--------

MOSES LAKE WA (MWH)

ACE



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EXISTING

32R 34711
MWH TD

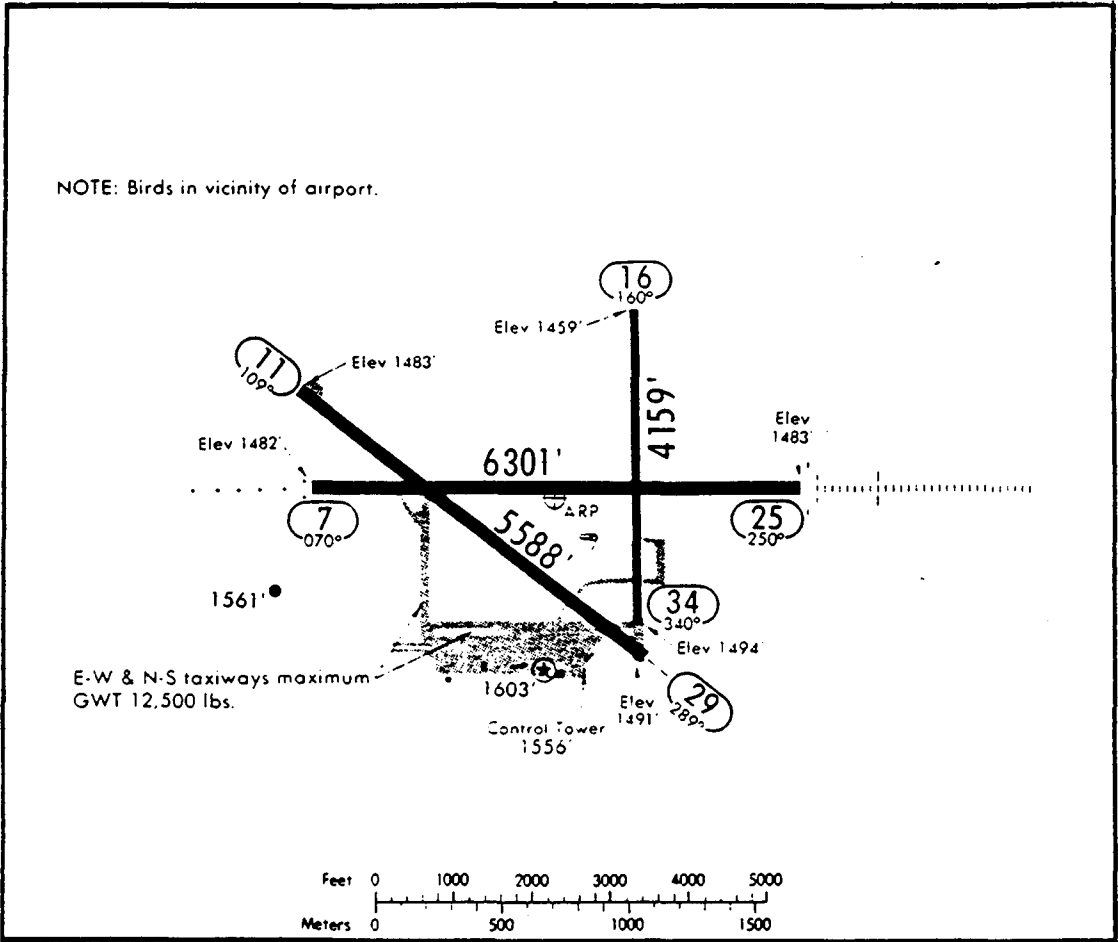
NEW GENERATION

System Elements	QTY REQ'D
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	-
Other	-
Total Displays	2

FY 85	CONVERT RVV	R/W 32R
-------	-------------	---------

PENDLETON OR (PDT)

ANM



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EXISTING

NEW GENERATION

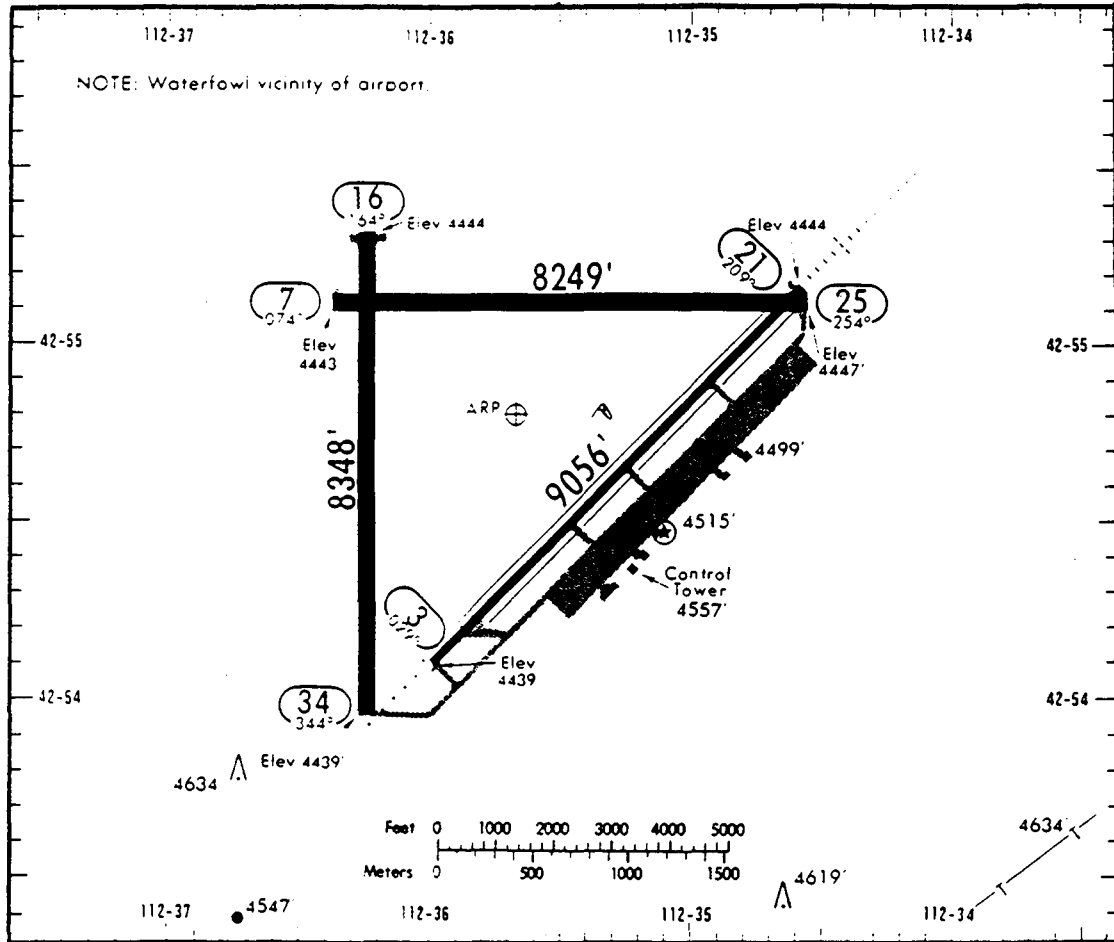
25 34711
PDT TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	-	
NWS	1	
Other	-	
Total Displays		2

FY 85	CONVERT RVV	R/W 25
-------	-------------	--------

POCATELLO ID (PIH)

ANM



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EXISTINGNEW GENERATION

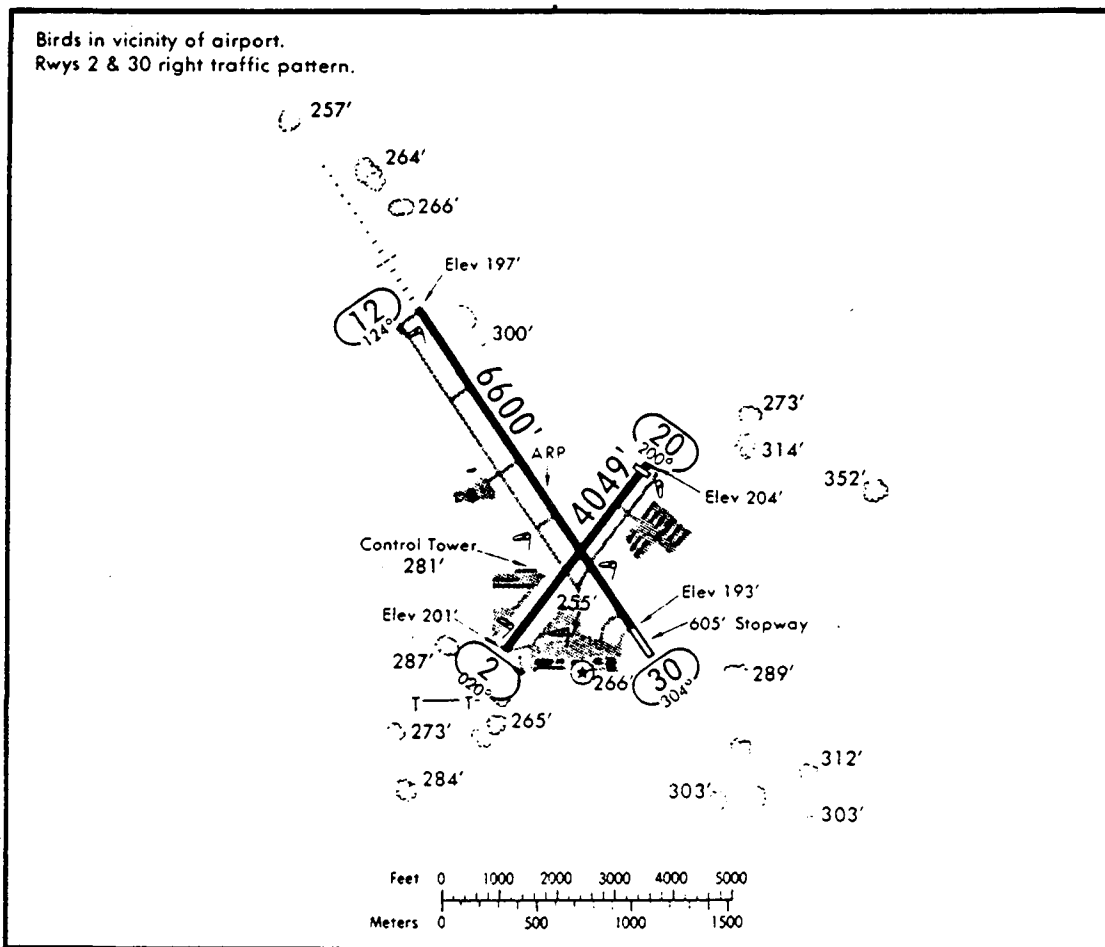
21 34711
PIH TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	-	
NWS	1	
Other	-	
Total Displays		2

FY 85	CONVERT RVV	R/W 21
-------	-------------	--------

HILLSBORO OR (HIO)

ANM



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EXISTING

NEW GENERATION

NONE

System Elements

QTY REQ'D

Basic
Sensor Packages
RLIM
Displays
ATCT 2
TRACON -
NWS -
Other -

1
-
-

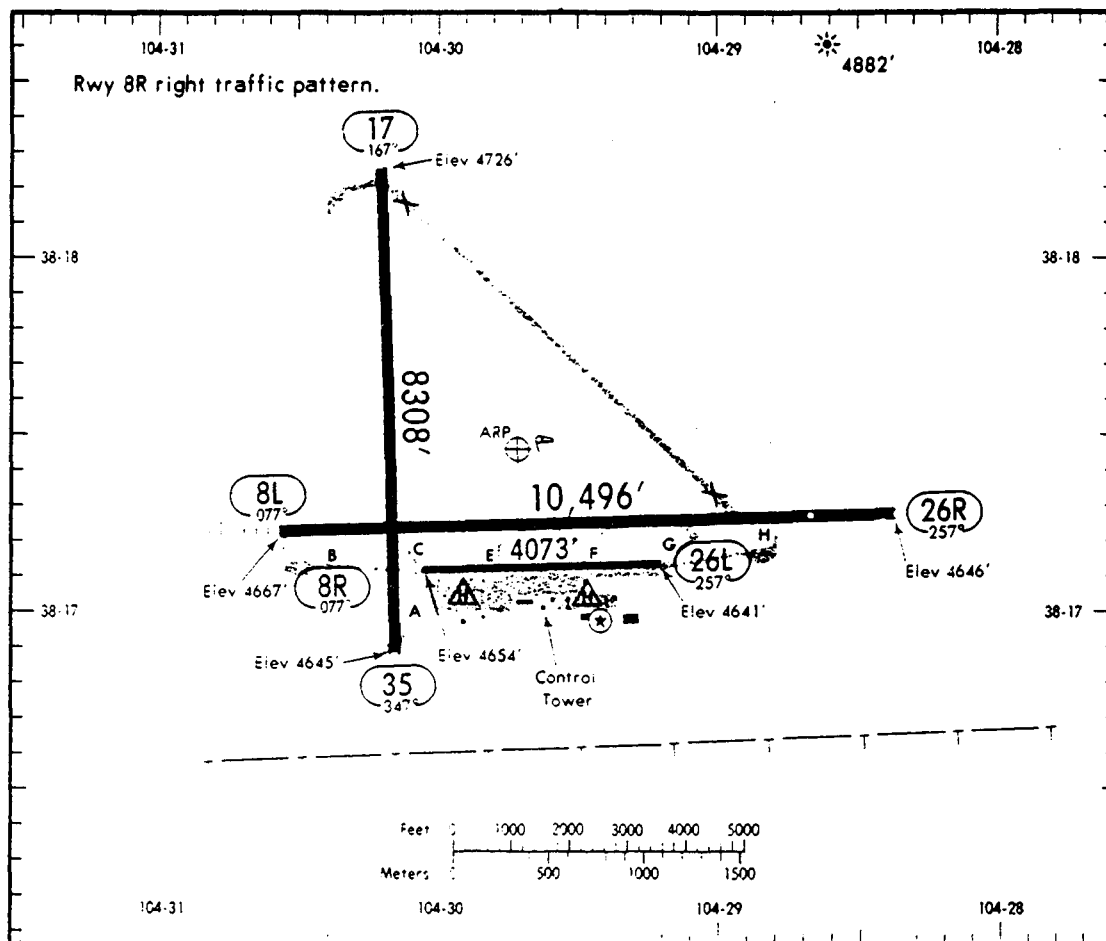
Total Displays

2

FY 86	ESTABLISH	R/W 12
-------	-----------	--------

PUEBLO CO (PUB)

ANM



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EXISTINGNEW GENERATION08L 347AG

PUB TD

System ElementsQTY REQ'D

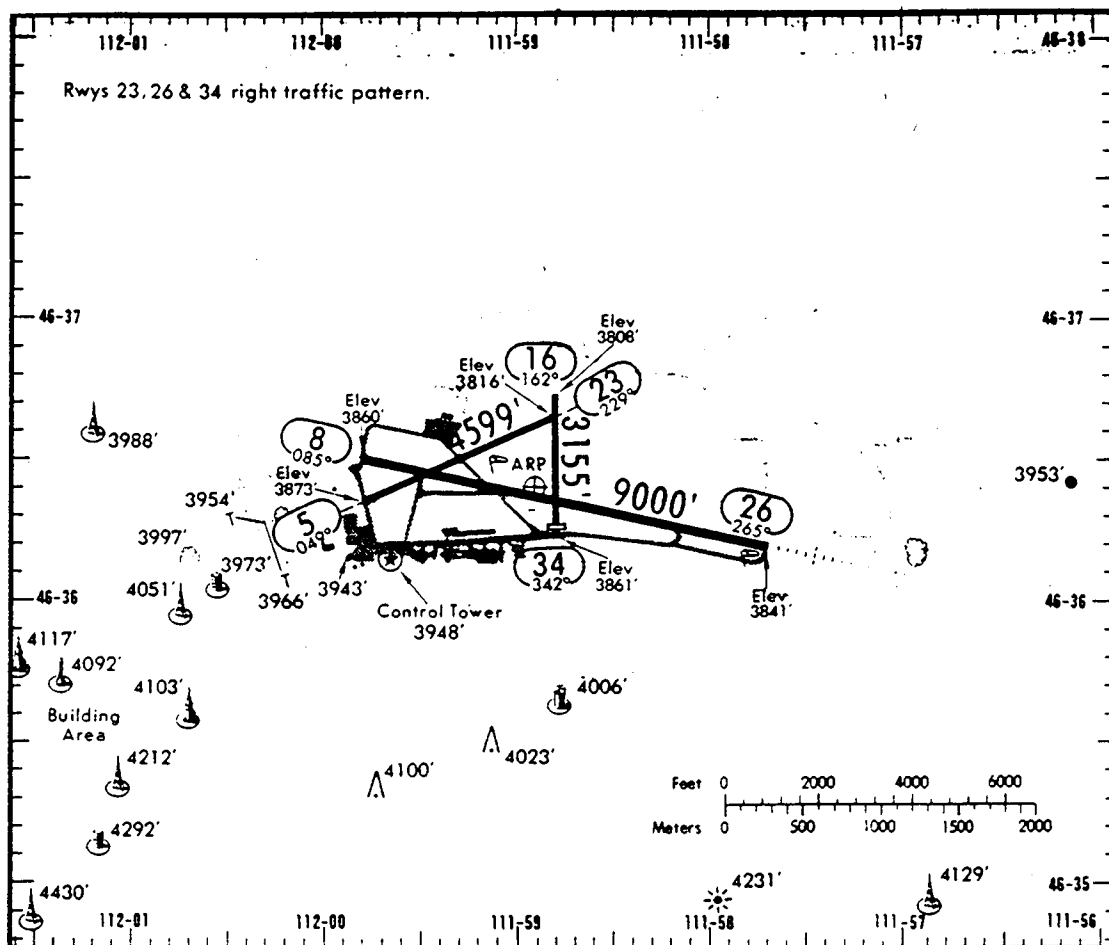
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	2
NWS	1
Other	-

Total Displays	5
----------------	---

FY 86	REPLACE	R/W 08L
-------	---------	---------

HELENA MT (HLN)

ANM



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EXISTING

NEW GENERATION

NONE

System Elements

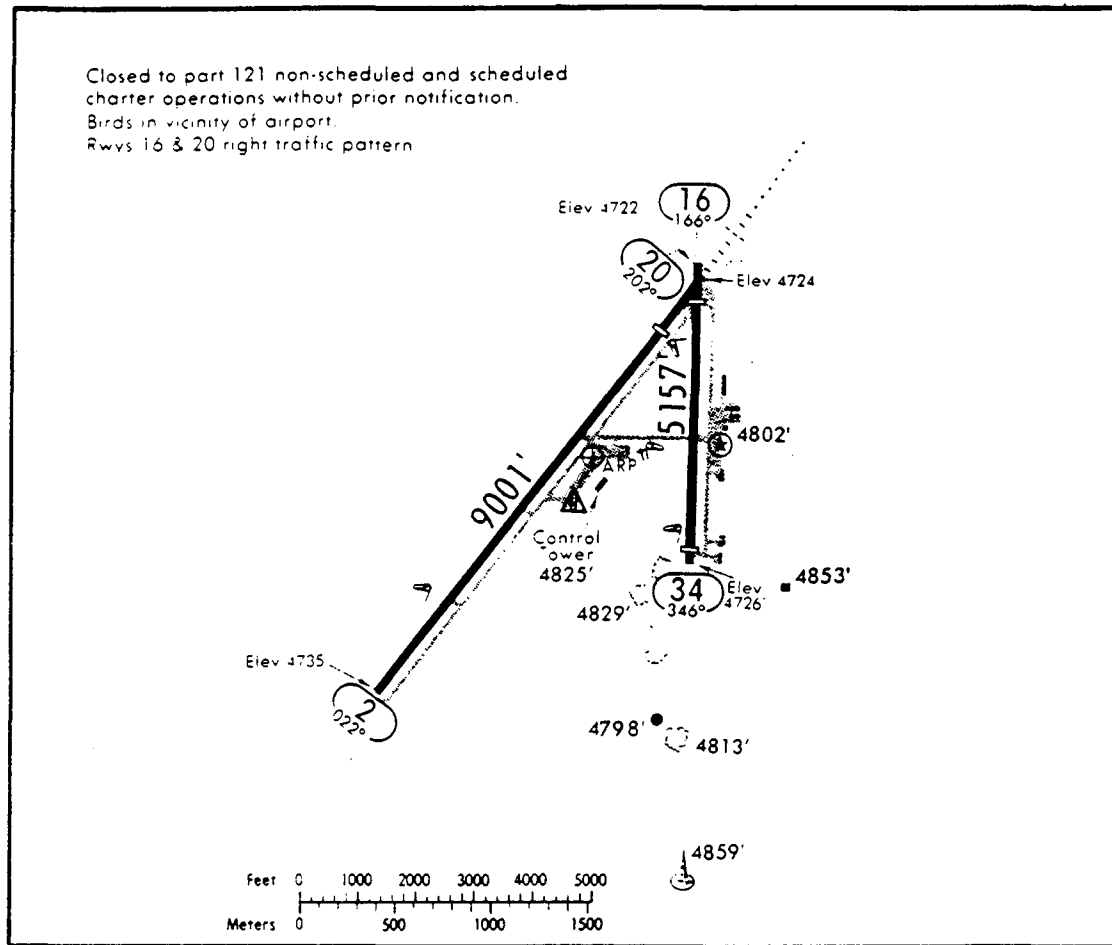
QTY REQ'D

Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	3	
TRACON	-	
NWS	-	
Other	-	
Total Displays		3

FY 88	ESTABLISH	R/W 26
-------	-----------	--------

IDAHO FALLS (IDA)

ANM

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NONE

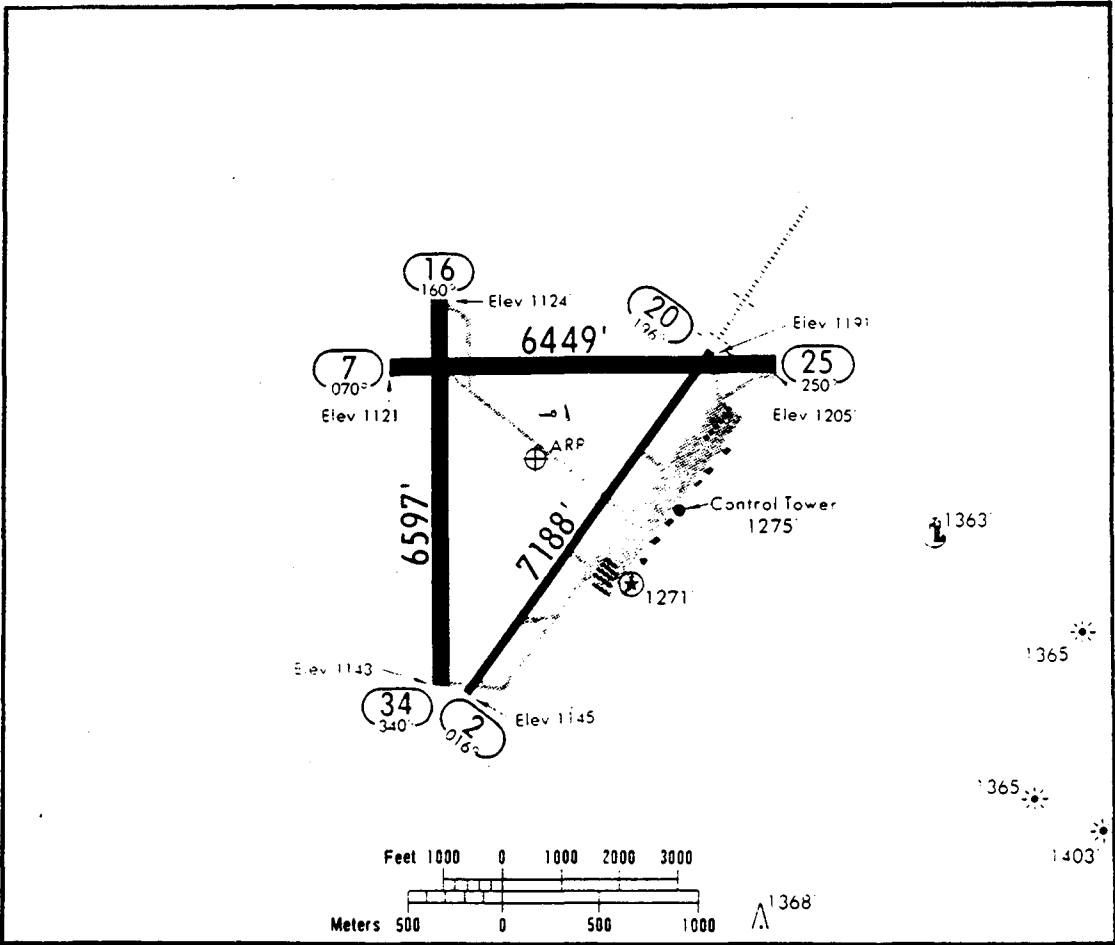
NEW GENERATION

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 88	ESTABLISH	R/W 20
-------	-----------	--------

WALLA WALLA WA (ALW)

ANM



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EXISTING

NEW GENERATION

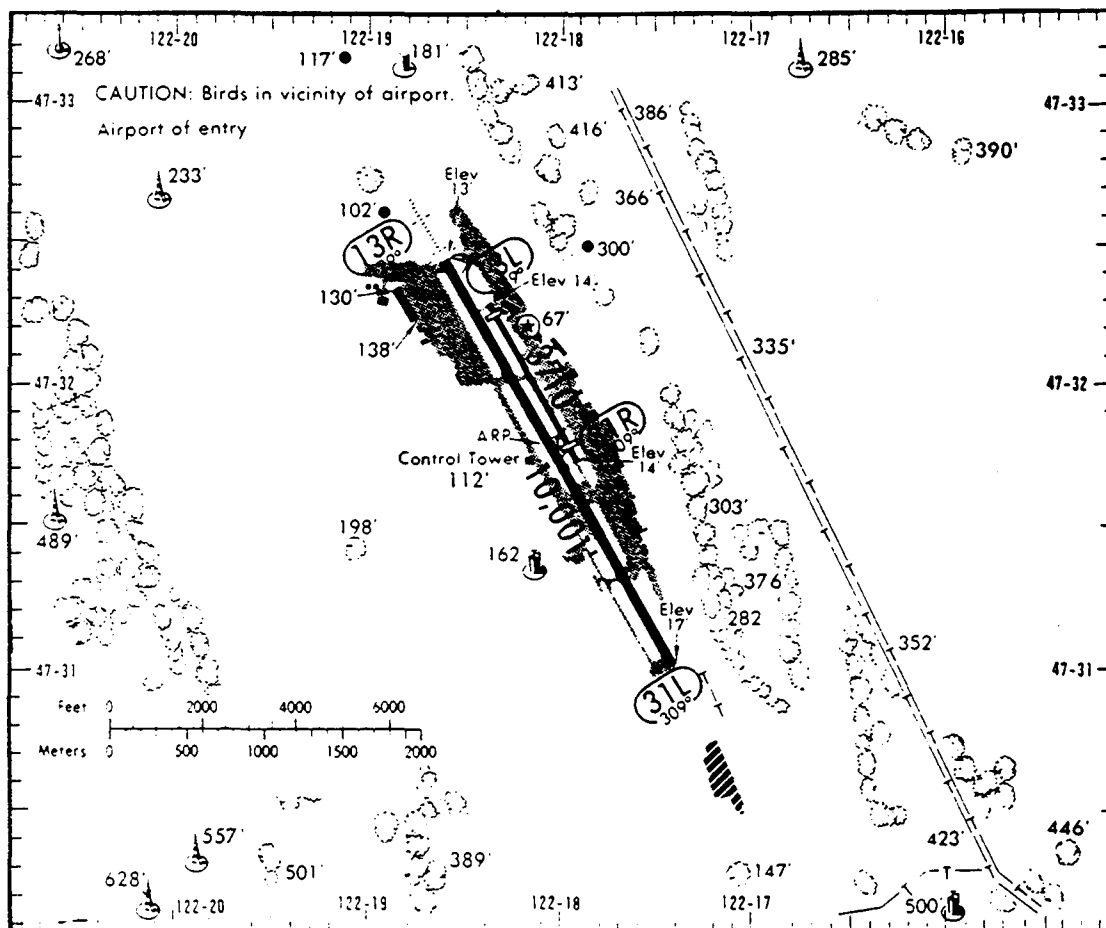
20 347AE
ALW TD

System Elements		QTY REQ'D
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	-	
NWS	-	
Other	1	
Total Displays		2

FY 93	REPLACE	R/W 20
-------	---------	--------

SEATTLE-BOEING WA (BFI)

ANM

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BFI TD

System ElementsQTY REQ'D

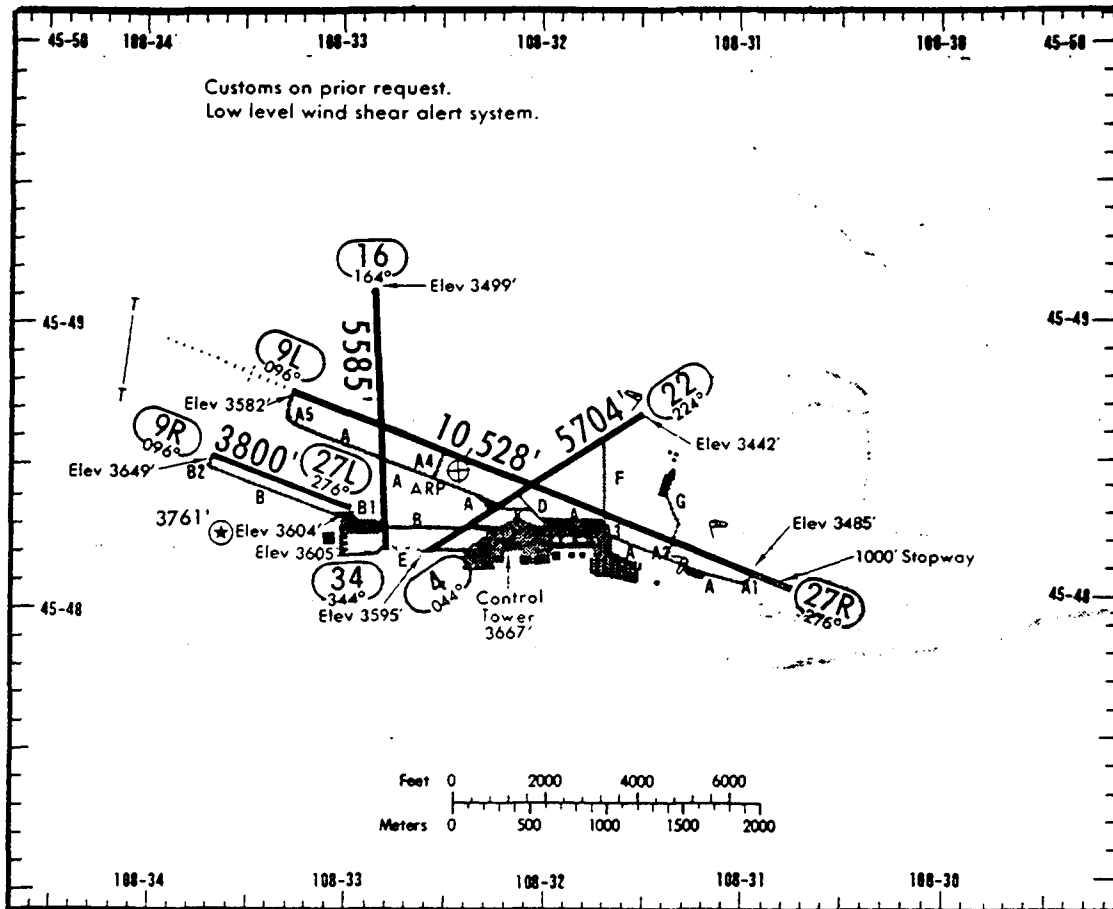
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	

Total Displays		2
----------------	--	---

FY 93	REPLACE	R/W 13R
-------	---------	---------

BILLINGS MT (BIL)

ANM



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EXISTING

NEW GENERATION

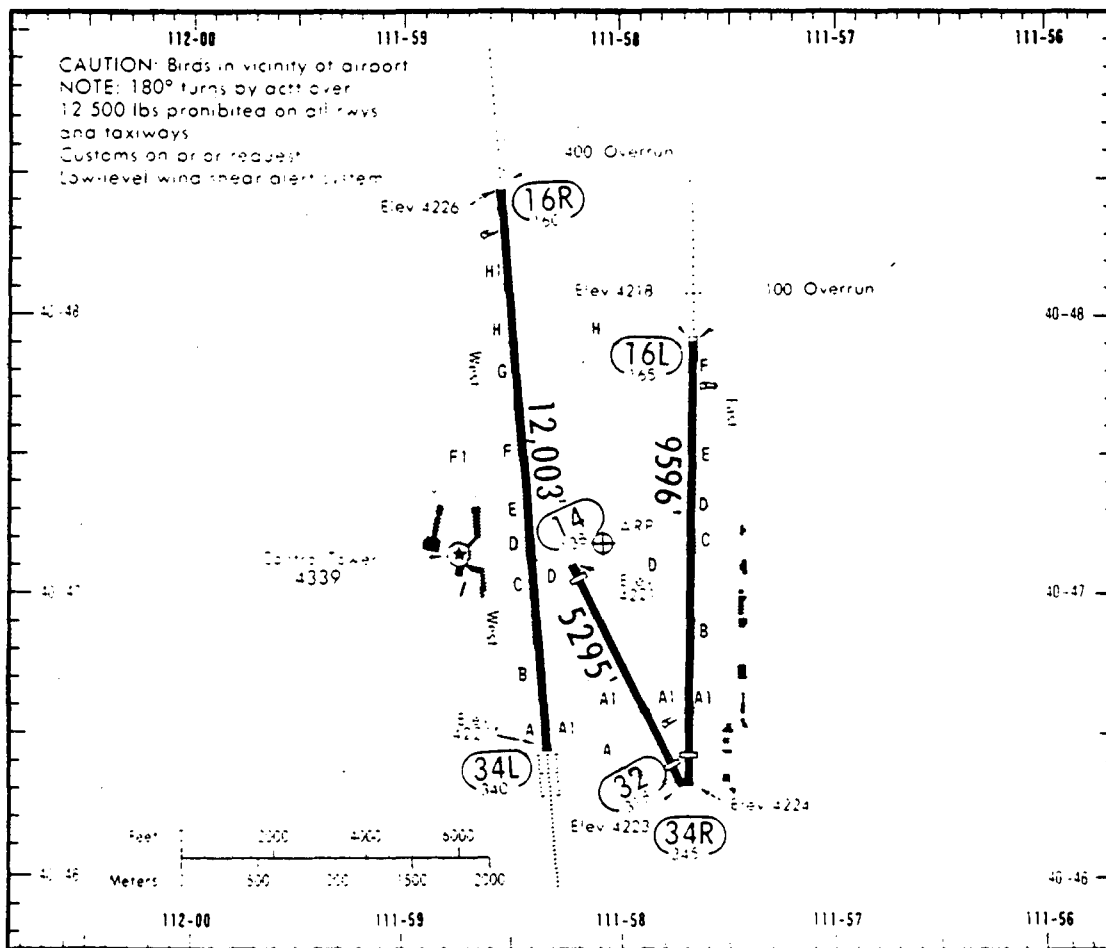
09L 347AE
BIL TD

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	2
NWS	1
Other	-
Total Displays	5

FY 93	REPLACE	R/W 09L
-------	---------	---------

SALT LAKE CITY UT (SLC)

ANM

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16L 347AE

BNT TD

34L 347AE

SLC TD

SLCA MP

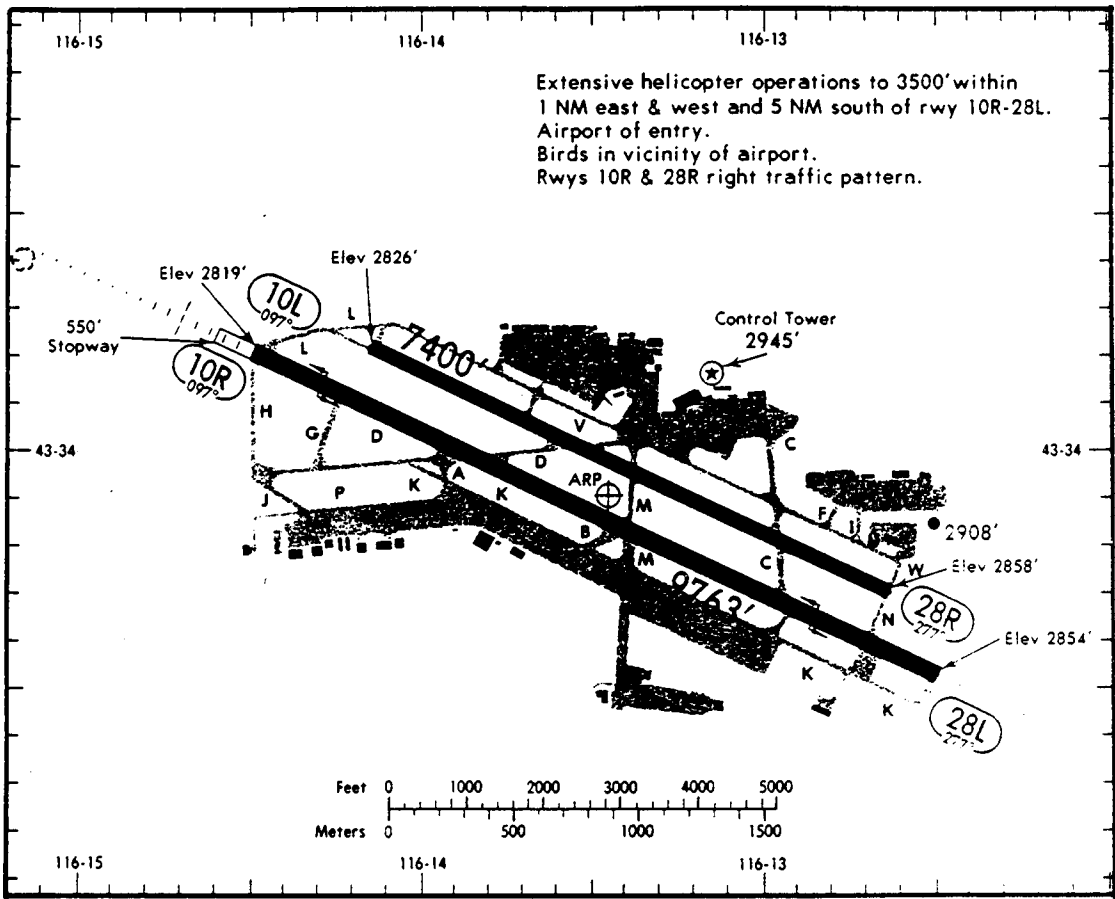
SLCB RO

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		3
RLIM		1
Displays		
ATCT	3	
TRACON	4	
NWS	1	
Other	2	
Total Displays		10

FY 93	REPLACE	R/W 34L, 16L
-------	---------	--------------

BOISE ID (BOI)

ANM



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EXISTING

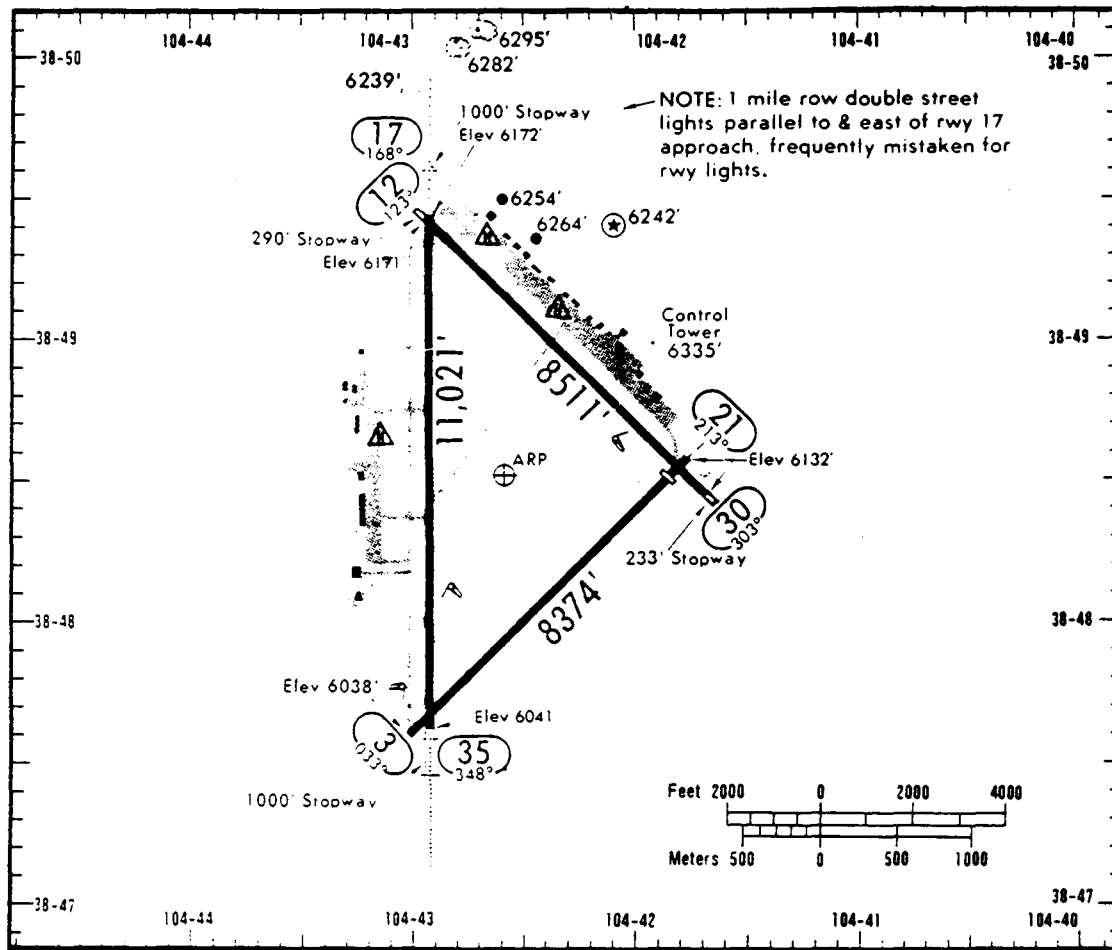
NEW GENERATION

		<u>System Elements</u>	<u>QTY REQ'D</u>
10R	<u>347AE</u>		
BOI	TD	Basic	1
		Sensor Packages	1
28R	<u>347AE</u>	RLIM	1
		Displays	
BOI	RO	ATCT	2
		TRACON	2
		NWS	1
		Other	-
		Total Displays	5

FY 93	REPLACE	R/W 10R, 28R
-------	---------	--------------

COLORADO SPRINGS CO (COS)

ANM

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COS TD

System Elements QTY REQ'D

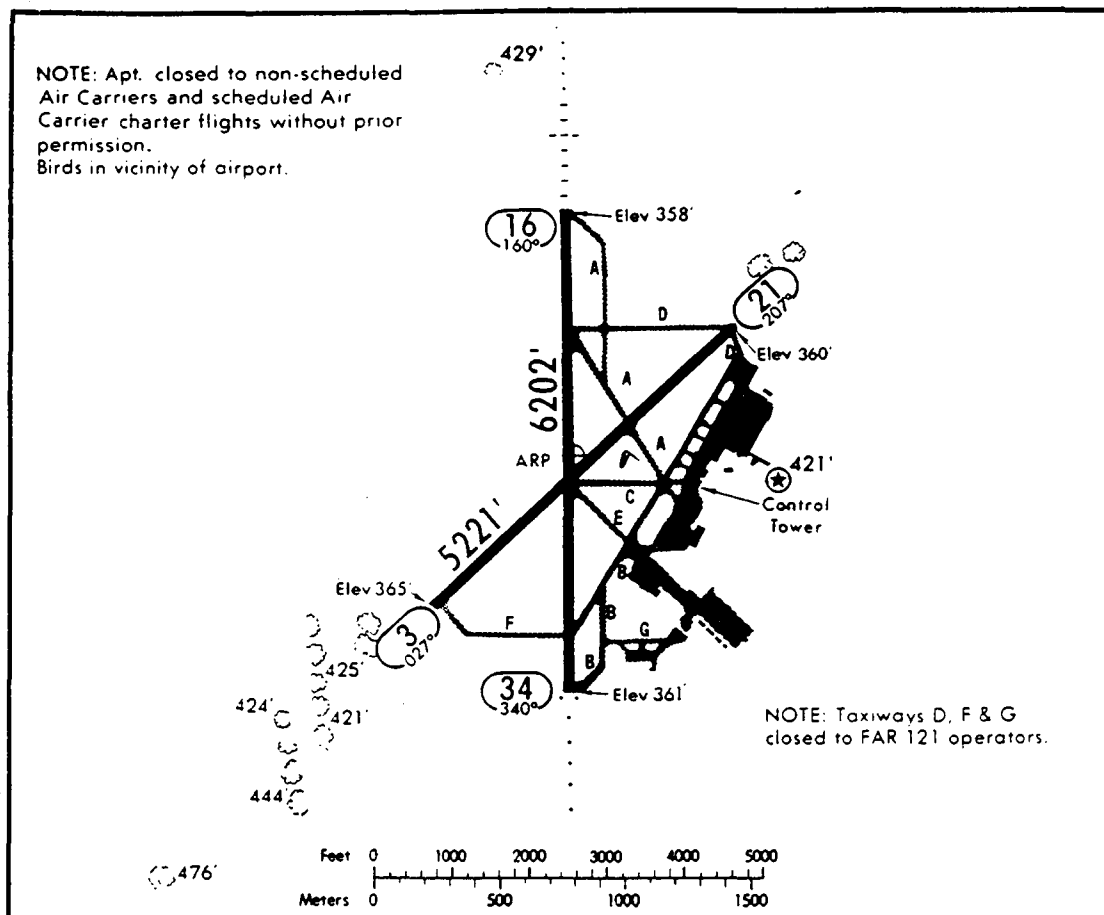
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	2
NWS	1
Other	-

Total Displays 5

FY 93	REPLACE	R/W 35
-------	---------	--------

EUGENE OR (EUG)

ANM



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EXISTING

NEW GENERATION

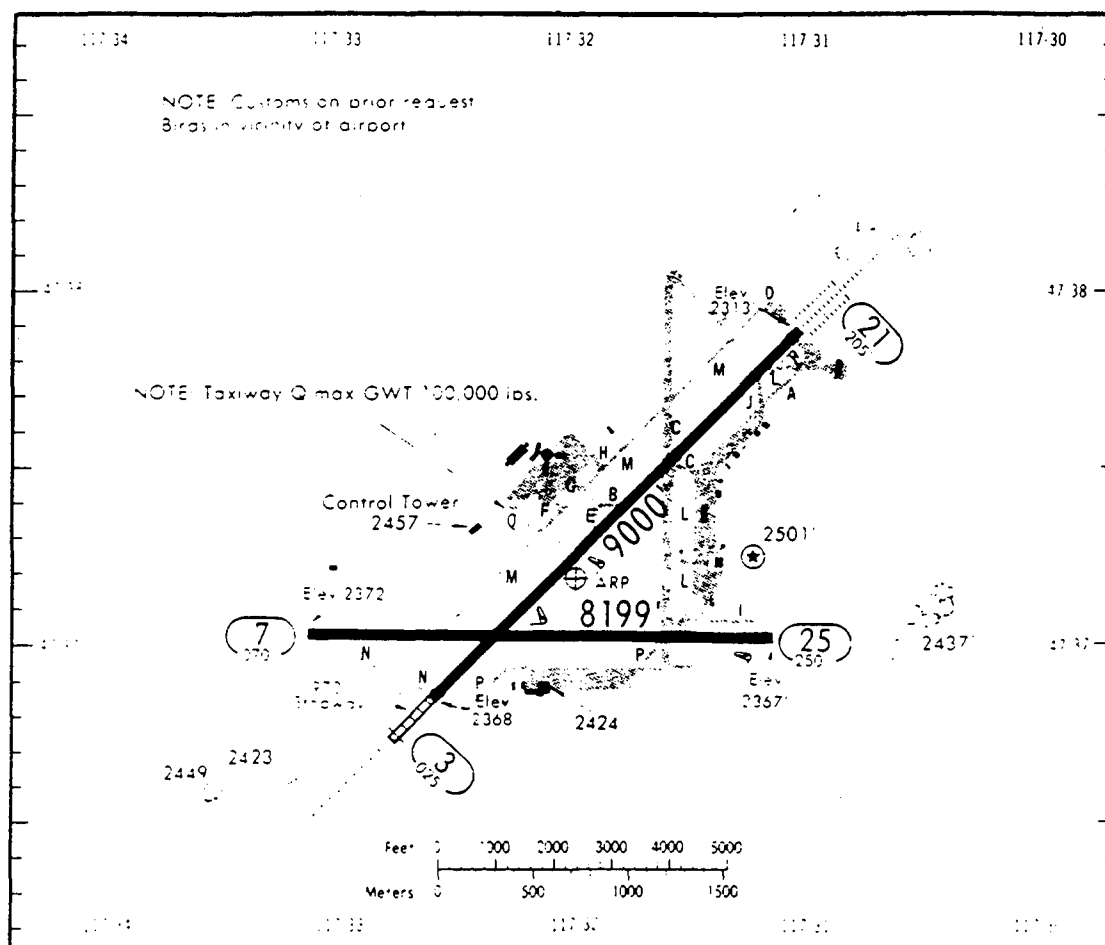
16 347AE
EUD TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	2	
NWS	1	
Other	-	
Total Displays		5

FY 93	REPLACE	R/W 16
-------	---------	--------

SPOKANE WA (GEG)

ANM

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ALL RIGHTS RESERVEDEXISTINGNEW GENERATION21 347AE

GEG	TD
GEGA	MP
GGB	RO

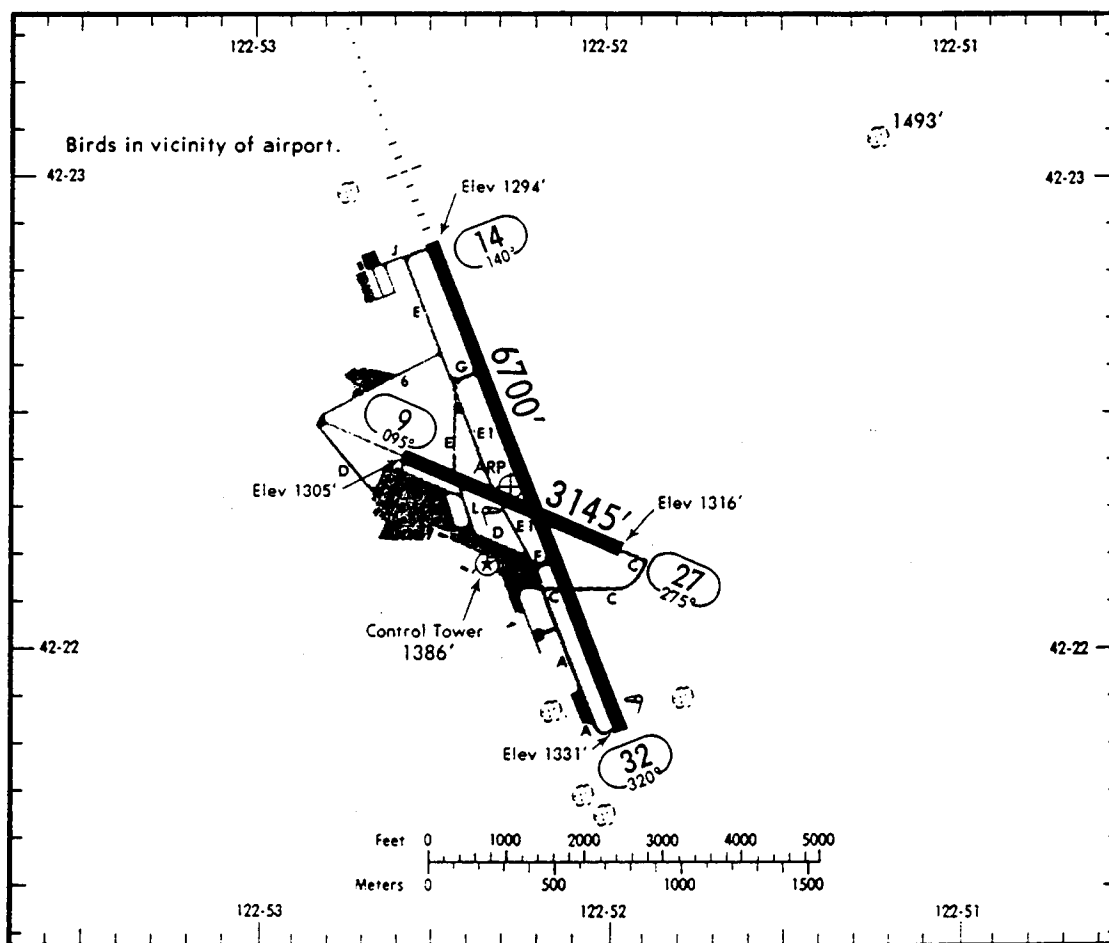
System ElementsQTY REQ'D

Basic	1
Sensor Packages	2
RLIM	-
Displays	
ATCT	2
TRACON	2
NWS	1
Other	-
Total Displays	5

FY 93	REPLACE	R/W 21
-------	---------	--------

MEDFORD OR (MFR)

ANM



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EXISTING

NEW GENERATION

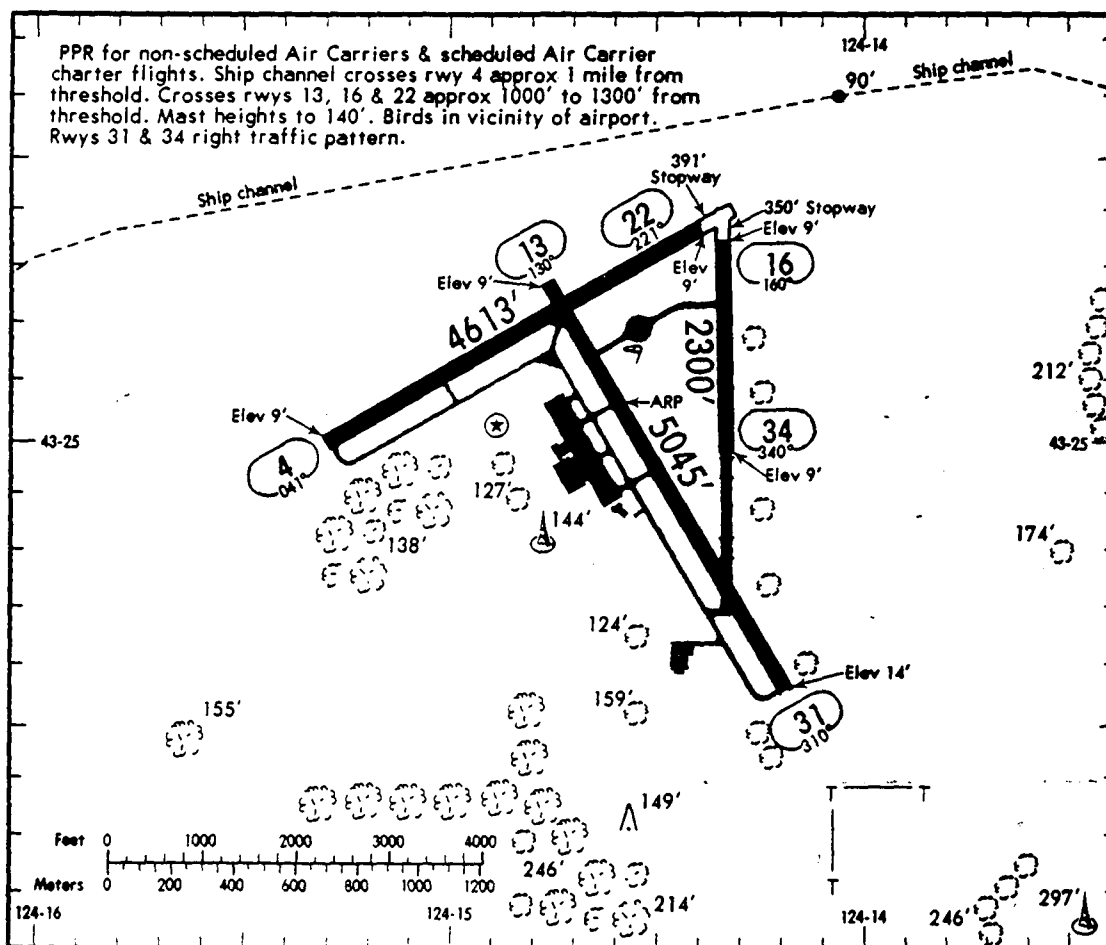
14 347AE
MFR TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	1	
Other	-	
Total Displays		3

FY 93	REPLACE	R/W 14
-------	---------	--------

NORTH BEND OR (OTH)

ANM

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OTH TD

System ElementsQTY REQ'D

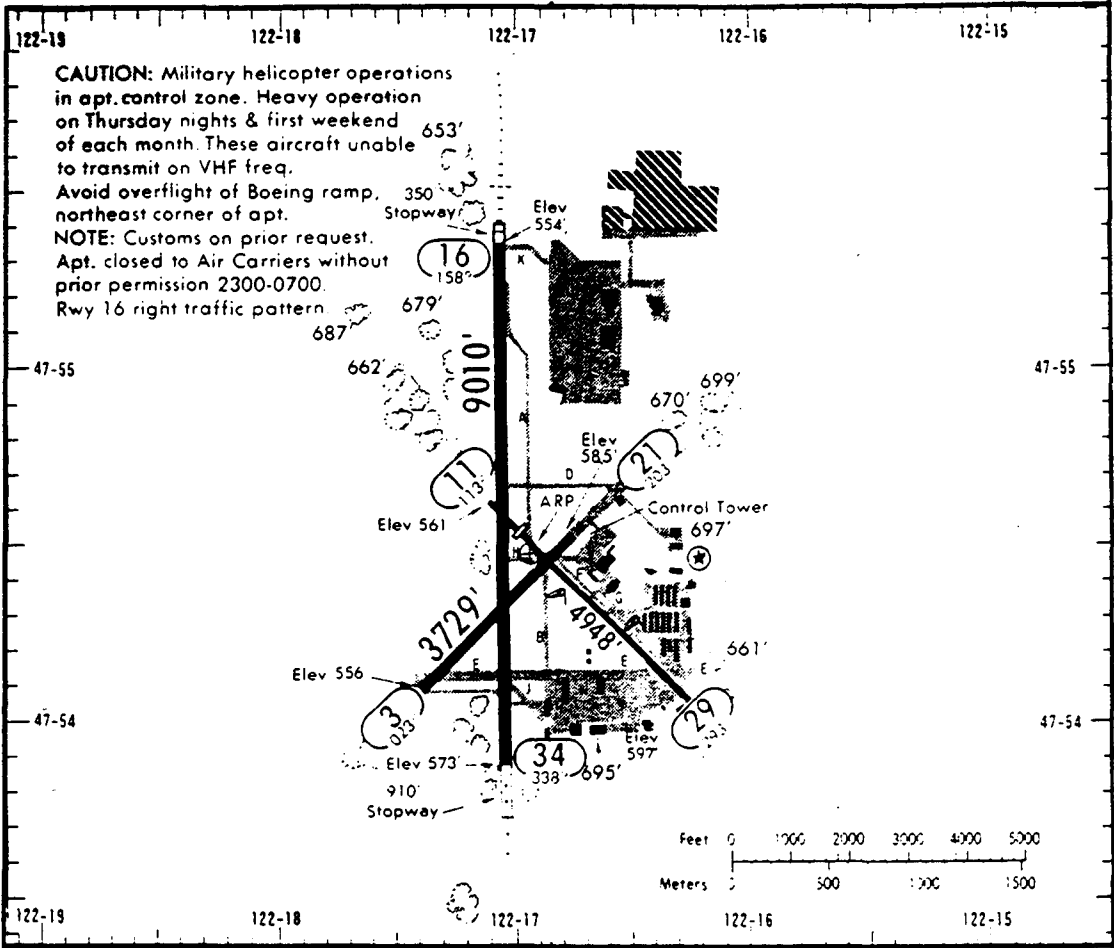
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	-
TRACON	-
NWS	-
Other	1

Total Displays	1
----------------	---

FY 93	REPLACE	R/W 04
-------	---------	--------

EVERETT WA (PAE)

ANM



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EXISTING

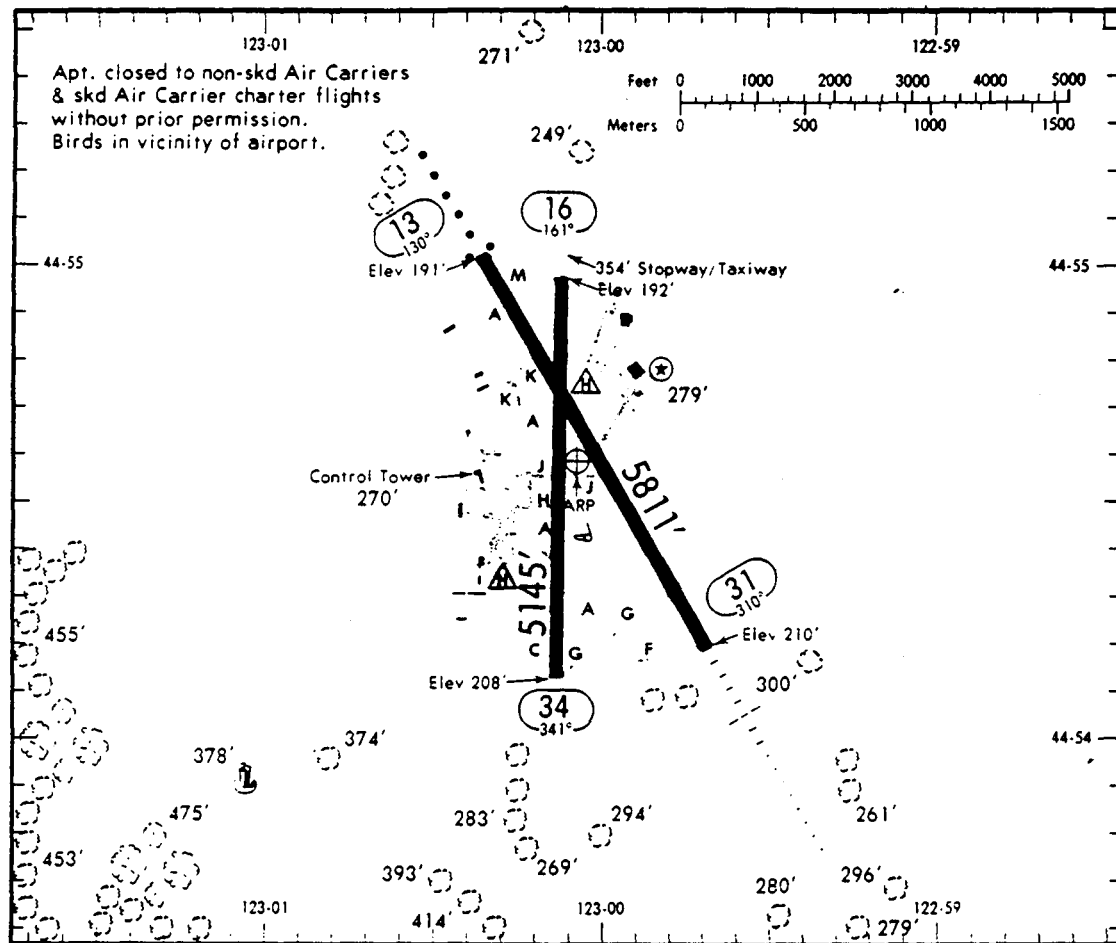
NEW GENERATION

		<u>System Elements</u>	<u>QTY REQ'D</u>
16	<u>347AE</u>	Basic	1
		Sensor Packages	-
PAE	TD	RLIM	-
		Displays	
		ATCT	3
		TRACON	-
		NWS	-
		Other	-
		Total Displays	3

FY 93	REPLACE	R/W 16
-------	---------	--------

SALEM OR (SLE)

ANM

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ALL RIGHTS RESERVEDEXISTINGNEW GENERATION31 347AESystem ElementsQTY REQ'D

SLE TD

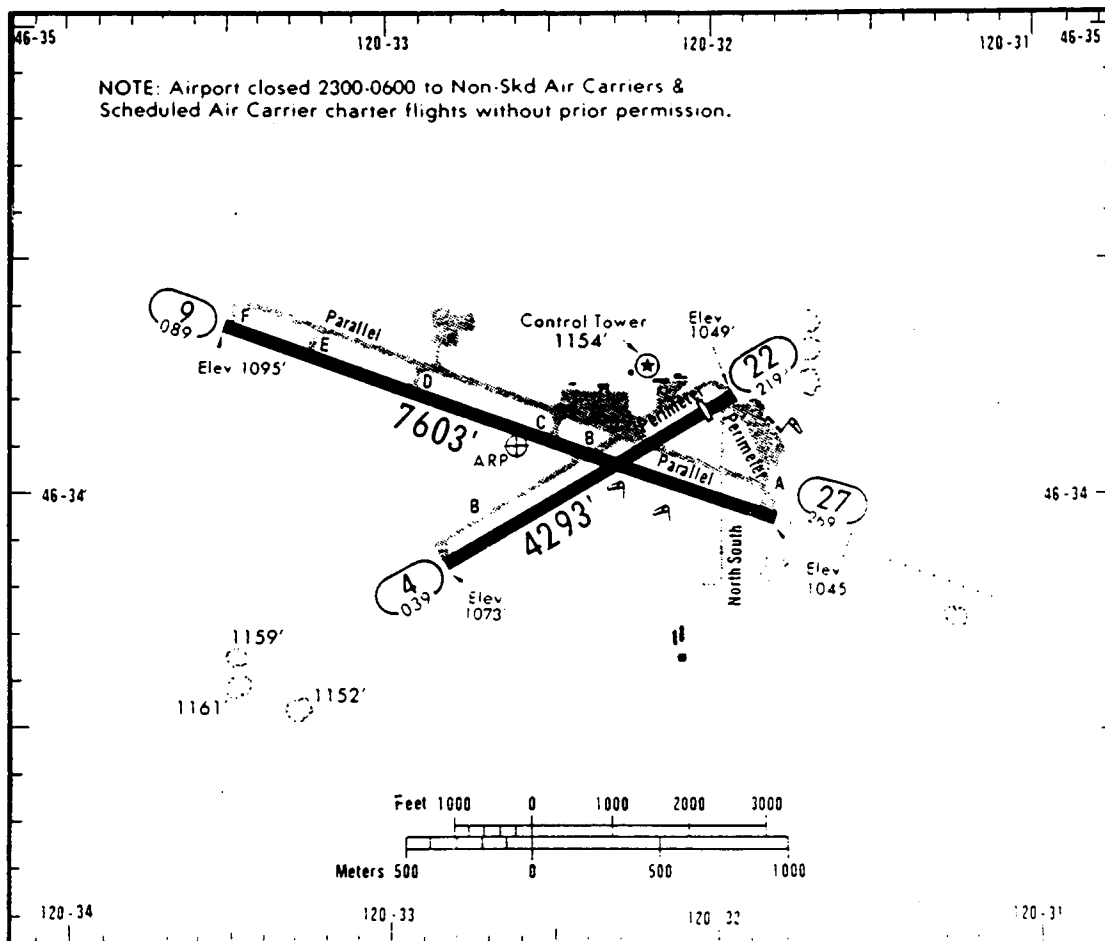
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	-
TRACON	-
NWS	-
Other	-

Total Displays 0

FY 93	REPLACE	R/W 31
-------	---------	--------

YAKIMA WA (YKM)

ANM



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EXISTING

NEW GENERATION

27 347AE
YKM TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	1	
Other	-	
Total Displays		3

FY 93	REPLACE	R/W 27
-------	---------	--------

APPENDIX 7. ASO SITE LOCATIONS

AIRPORT LOCATION (LOCATION IDENTIFIER)

RESERVED FOR JEPPESEN
AIRPORT LAYOUT

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EXISTING

Runway - RVR Model No.	
RVR Location IDENT.	TD, MP, RO (AS APPLICABLE)
OTHER RVRs (AS APPLICABLE)	

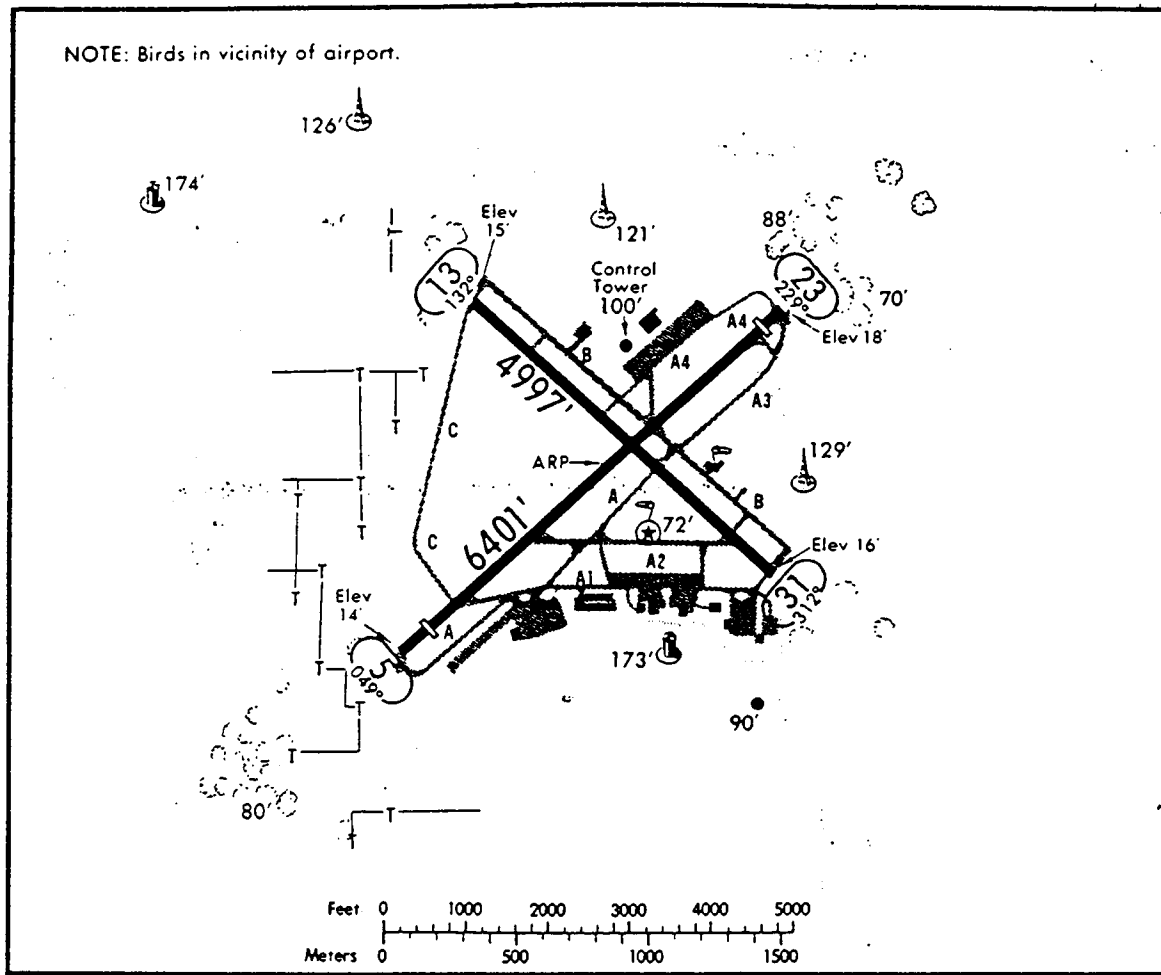
NEW GENERATION

Runway Visibility System (1)	1
Sensor Package (2)	5
RLIM	1
Displays	
ATCT	(a)
TRACON	(b)
NWS (3)	(c)
Other	(d)
Total Displays	(a + b + c + d)

- (1) Basic RVR System, Only One per Airport Location
- (2) Number of Existing RVR Sensors (minus 1)
- (3) Graphic Recorder Quantities

FORT MYERS FLA (FMY)

ASO

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ALL RIGHTS RESERVEDEXISTINGNEW GENERATION

NONE

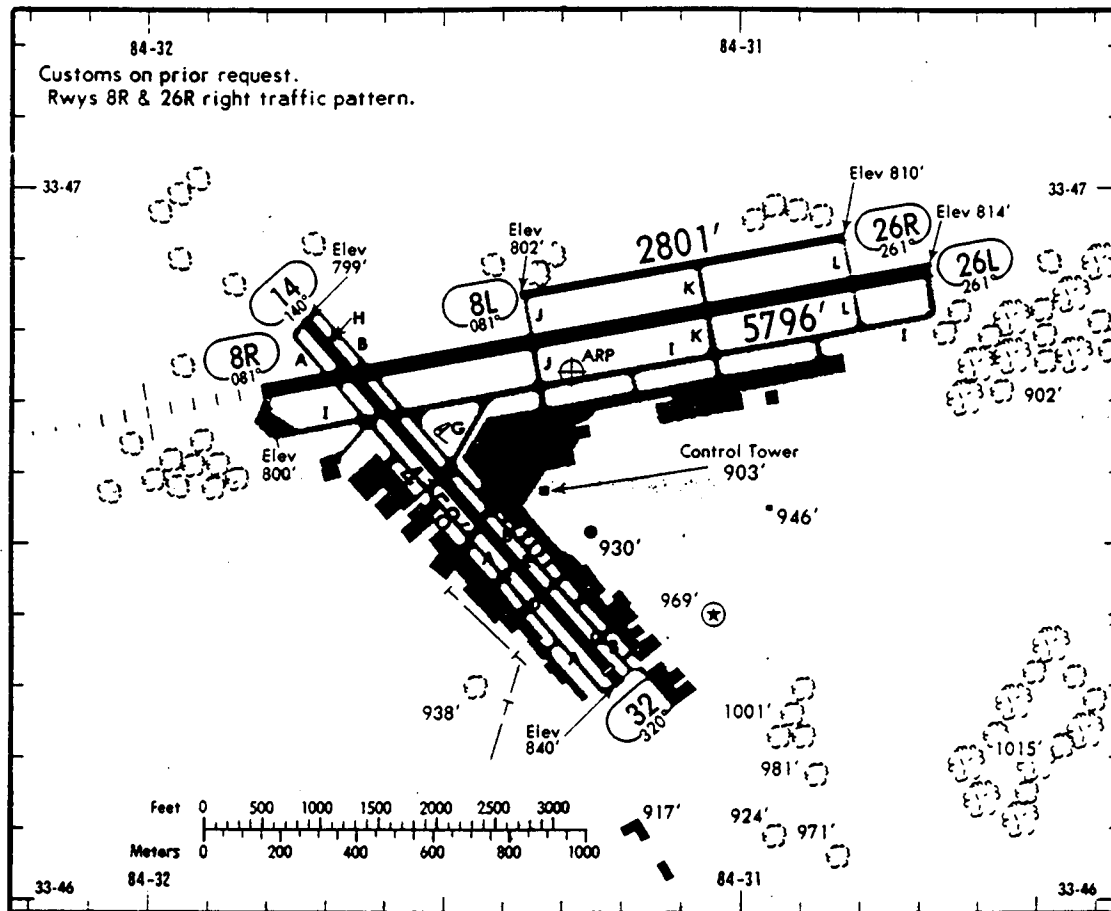
System ElementsQTY REQ'D

Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 84	ESTABLISH	R/W 05
-------	-----------	--------

ATLANTA-FULTON GA (FTY)

ASO



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EXISTING

NEW GENERATION

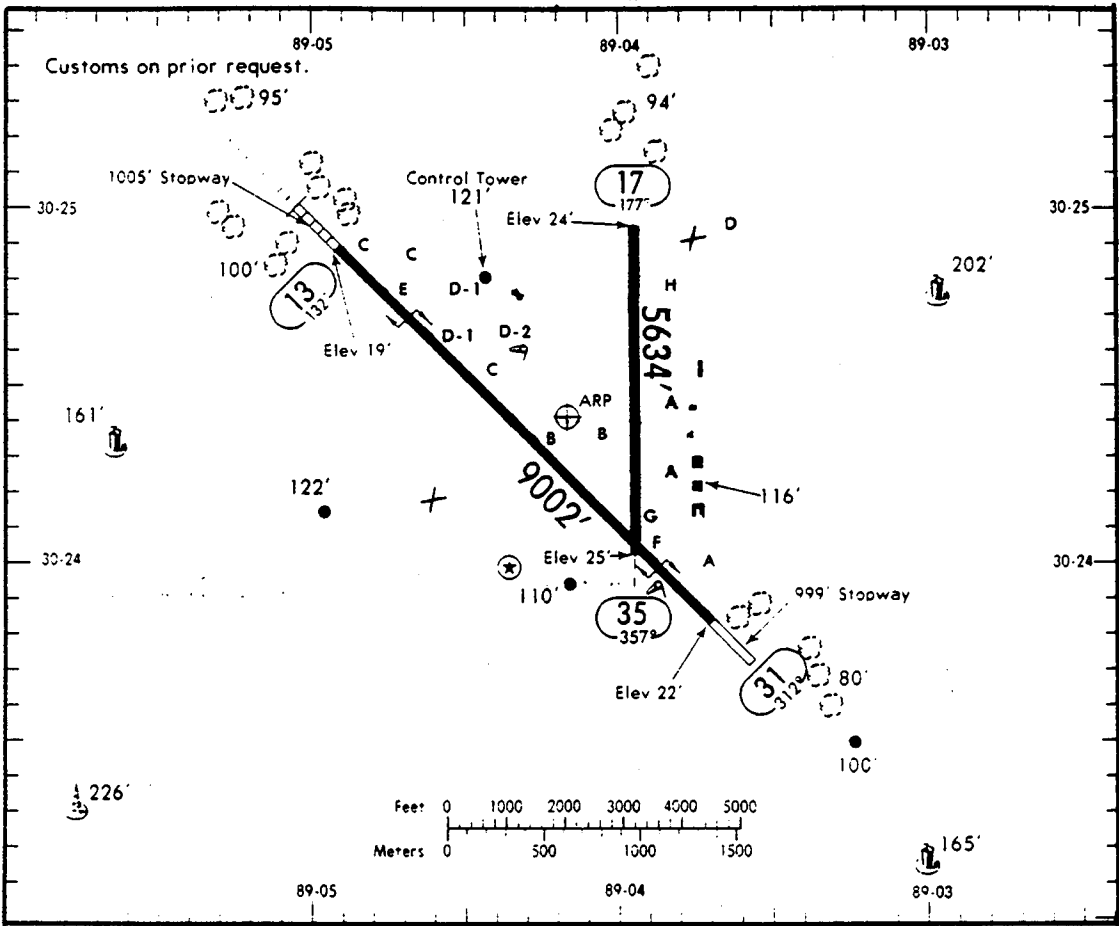
NONE

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 84	ESTABLISH	R/W 08
-------	-----------	--------

GULFPORT MS (GPT)

ASO



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EXISTING

NEW GENERATION

NONE

System Elements

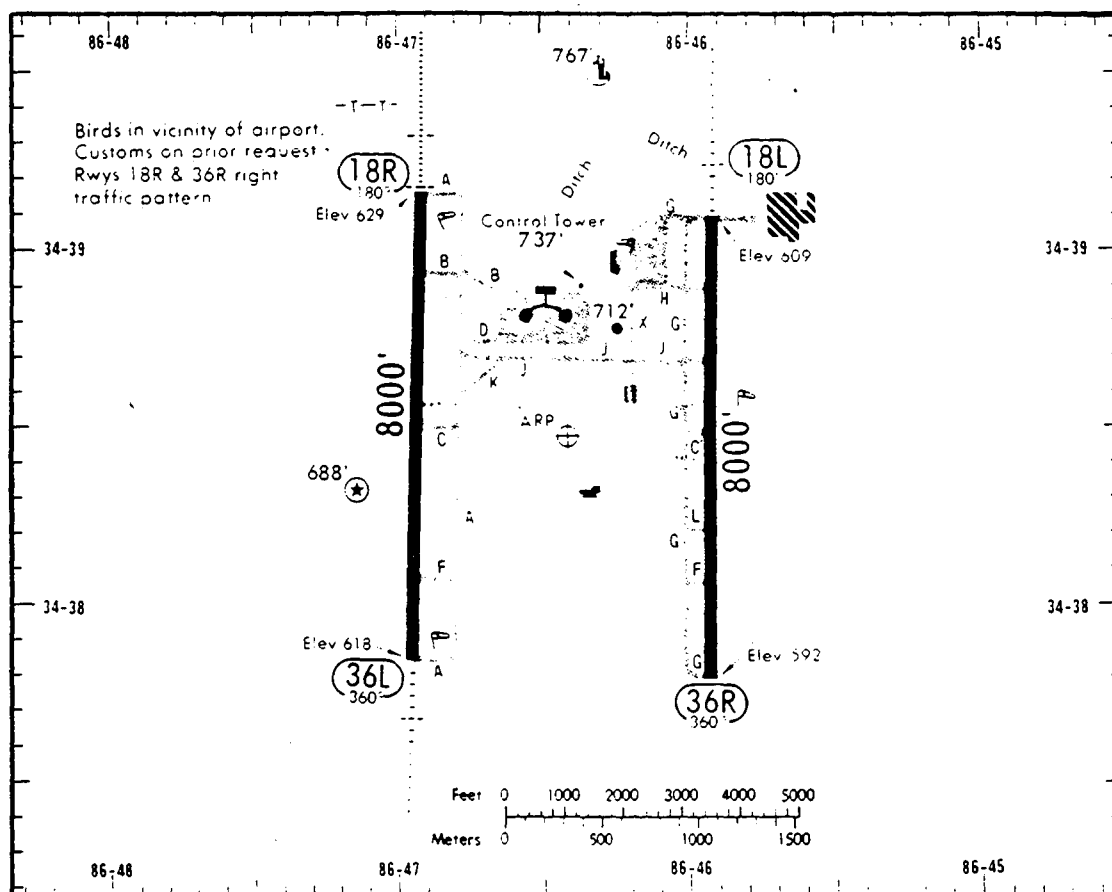
QTY REQ'D

Basic		1
Sensor Packages		1
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 84	ESTABLISH	R/W 13
FY 85	ESTABLISH	R/W 31

HUNTSVILLE AL (HSV)

ASO



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EXISTING

NEW GENERATION

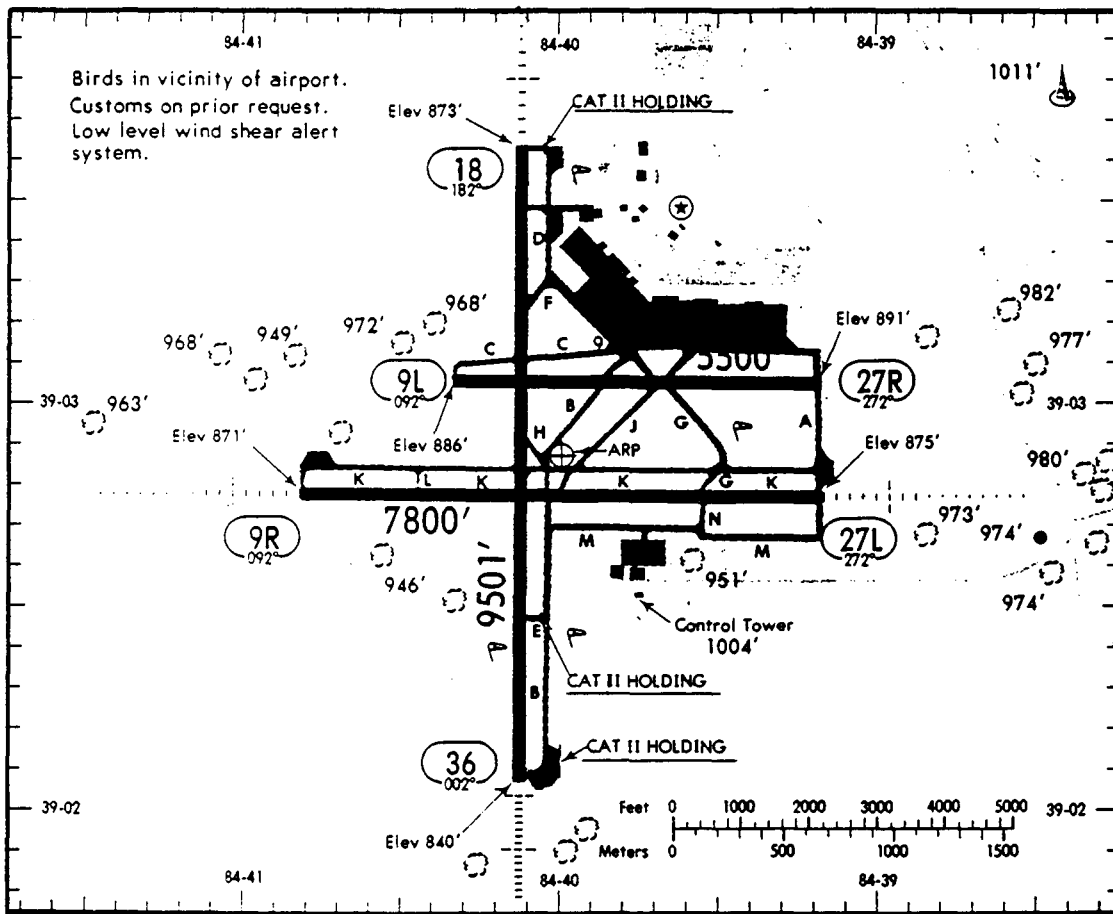
18R 347AC
HSV TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		1
RLIM		1
Displays		
ATCT	1	
TRACON	2	
NWS	1	
Other	-	
Total Displays		4

FY 85	ESTABLISH	R/W 18L
FY 85	REPLACE	R/W 18R

COVINGTON KY (CVG)

ASO



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EXISTINGNEW GENERATION

36 347AE

CVG TD
CVGA MP

18 347AE

SIC TD

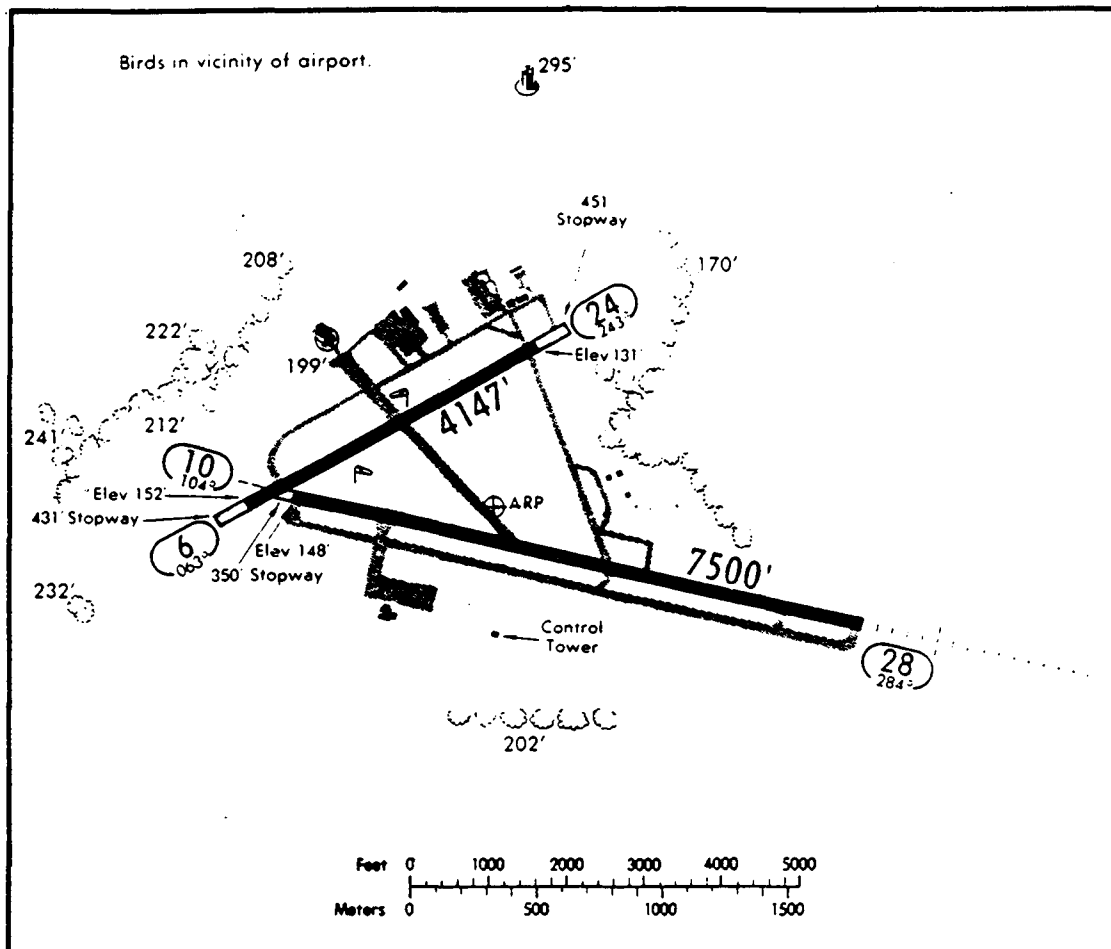
System Elements	QTY REQ'D
Basic	1
Sensor Packages	4
RLIM	1
Displays	
ATCT	2
TRACON	6
NWS	1
Other	-
Total Displays	9

FY 85	ESTABLISH	R/W 09R, 27L
-------	-----------	--------------

8/10/88

GAINSVILLE FLA (GNV)

ASO



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EXISTING

NEW GENERATION

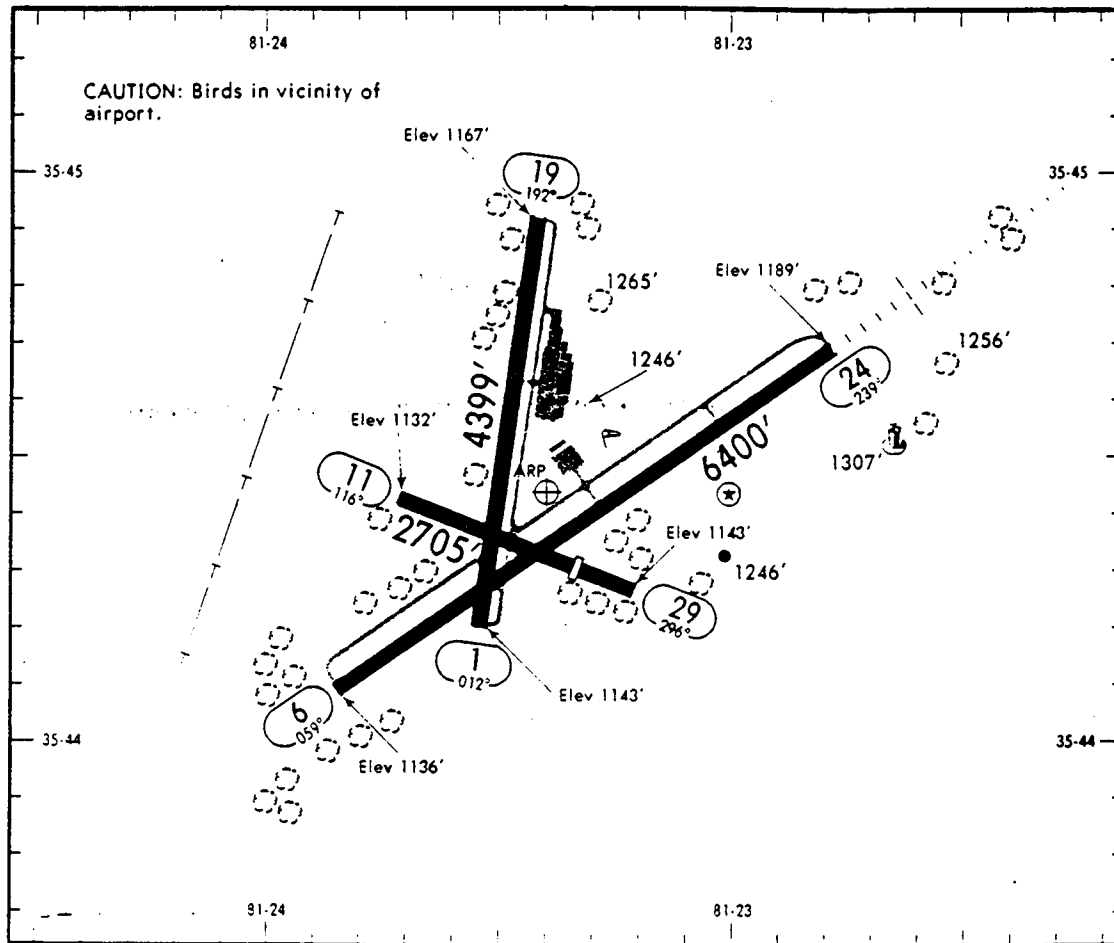
NONE

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 85	ESTABLISH	R/W 28
-------	-----------	--------

HICKORY NC (HKY)

ASO

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NONE

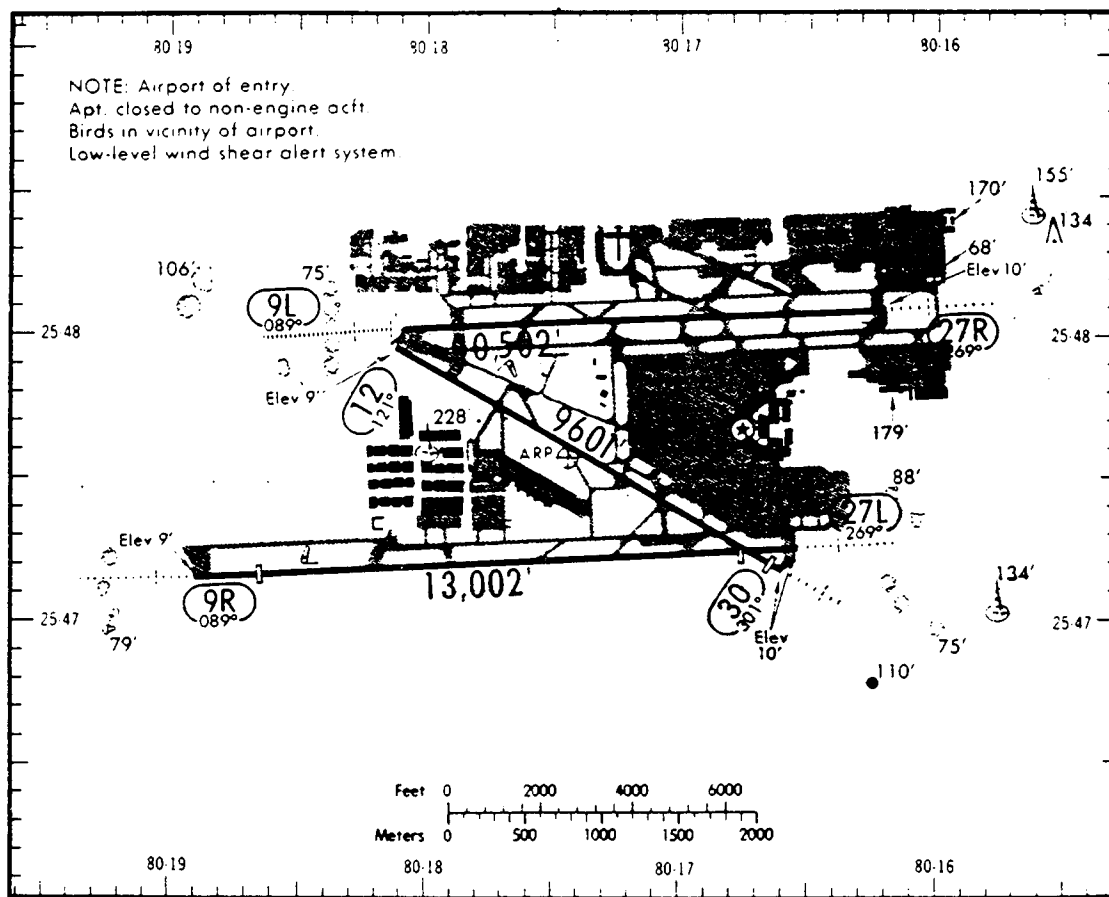
System ElementsQTY REQ'D

Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 85	ESTABLISH	R/W 24
-------	-----------	--------

MIAMI FL (MIA)

ASO



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EXISTING

NEW GENERATION

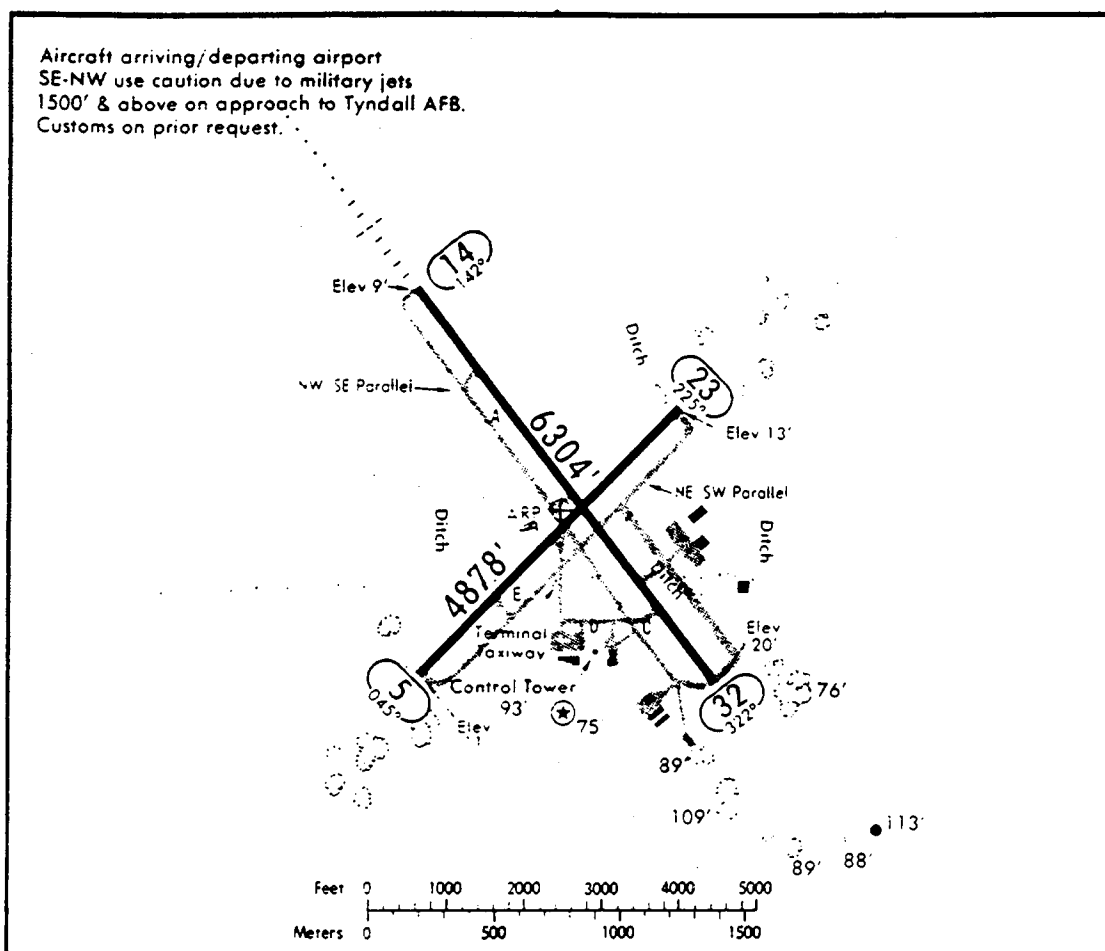
09L 347AE
MFA TD
27L 347AE
MIA TD

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	2
RLIM	1
Displays	
ATCT	2
TRACON	7
NWS	1
Other	-
Total Displays	10

FY 85	ESTABLISH	R/W 09R
-------	-----------	---------

PANAMA CITY FLA (PFN)

ASO

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NONE

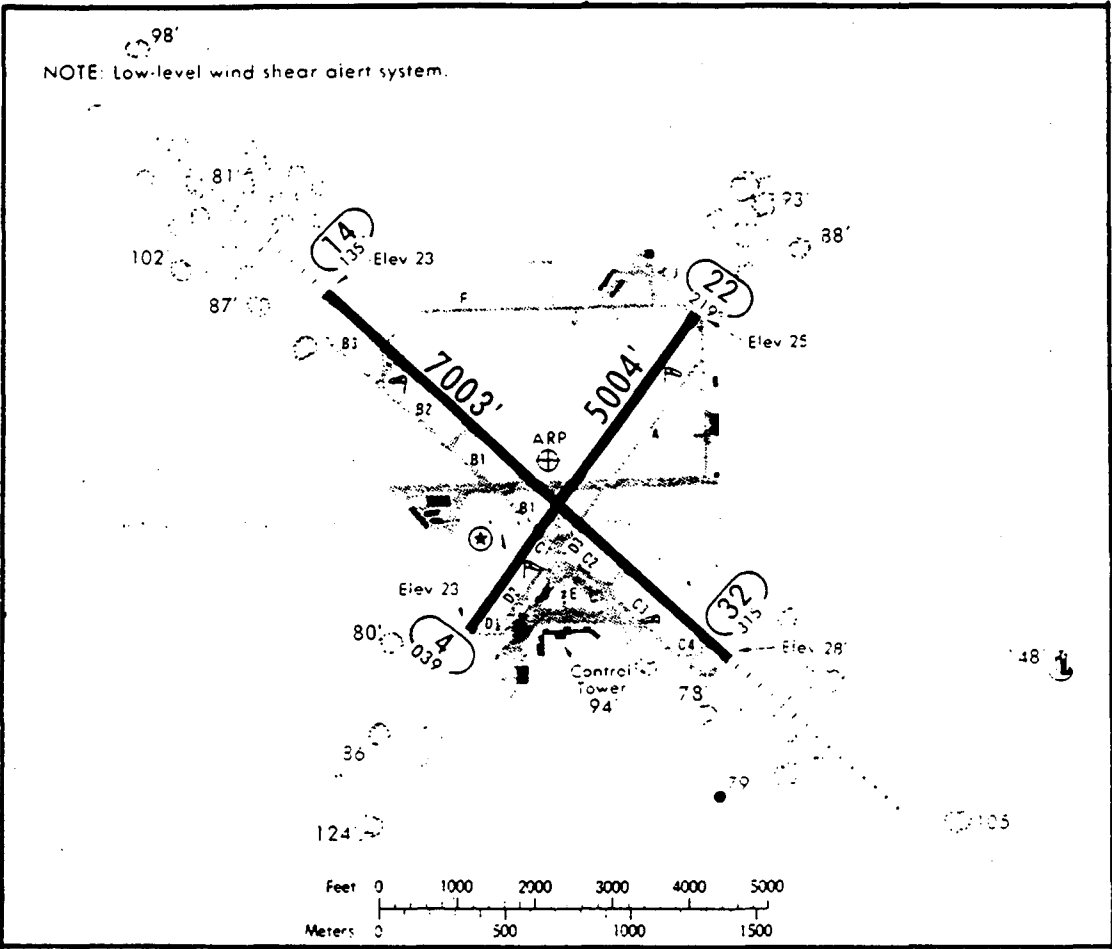
System ElementsQTY REQ'D

Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 85	REPLACE	R/W 14
-------	---------	--------

SARASOTA FLA (SRQ)

ASO



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EXISTING

NEW GENERATION

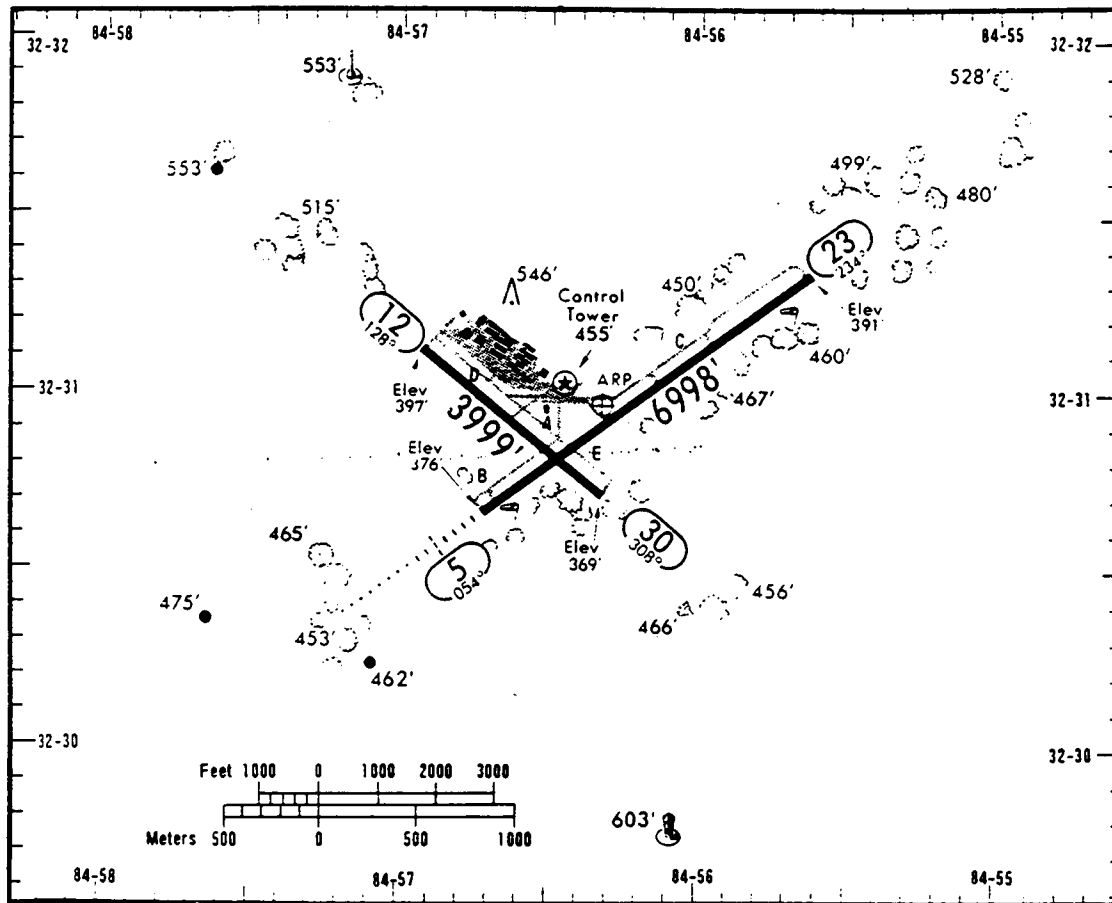
NONE

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 85	ESTABLISH	R/W 32
-------	-----------	--------

COLUMBUS GA (CSG)

ASO

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CSG TD

System ElementsQTY REQ'D

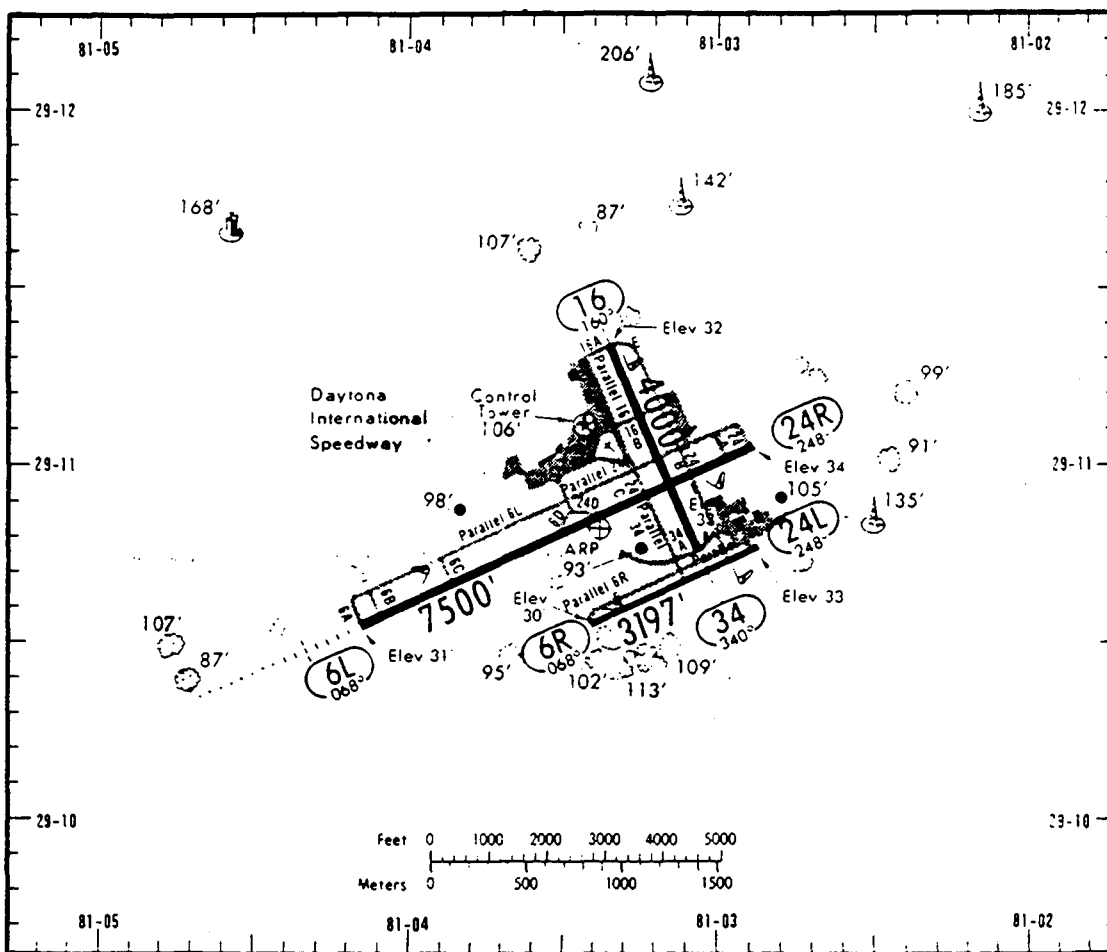
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	3
NWS	1
Other	-

Total Displays 5

FY 85	REPLACE	R/W 05
-------	---------	--------

DAYTONA BEACH FL (DAB)

ASO



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EXISTING

NEW GENERATION

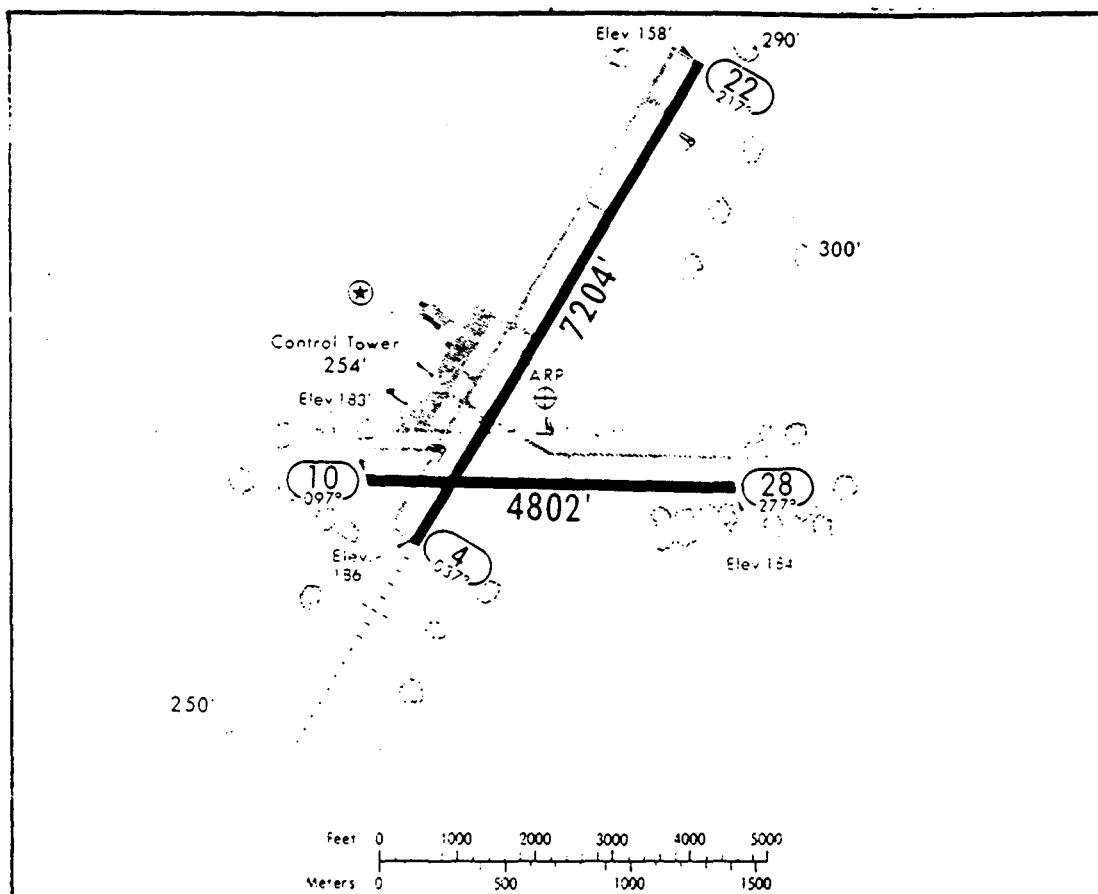
06L 347AC
DAB TB

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	1
NWS	1
Other	-
Total Displays	3

FY 85	REPLACE	R/W 06L
-------	---------	---------

FAYETTEVILLE NC (FAY)

ASO



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EXISTINGNEW GENERATION04 347AC

GRA TD

System ElementsQTY REQ'D

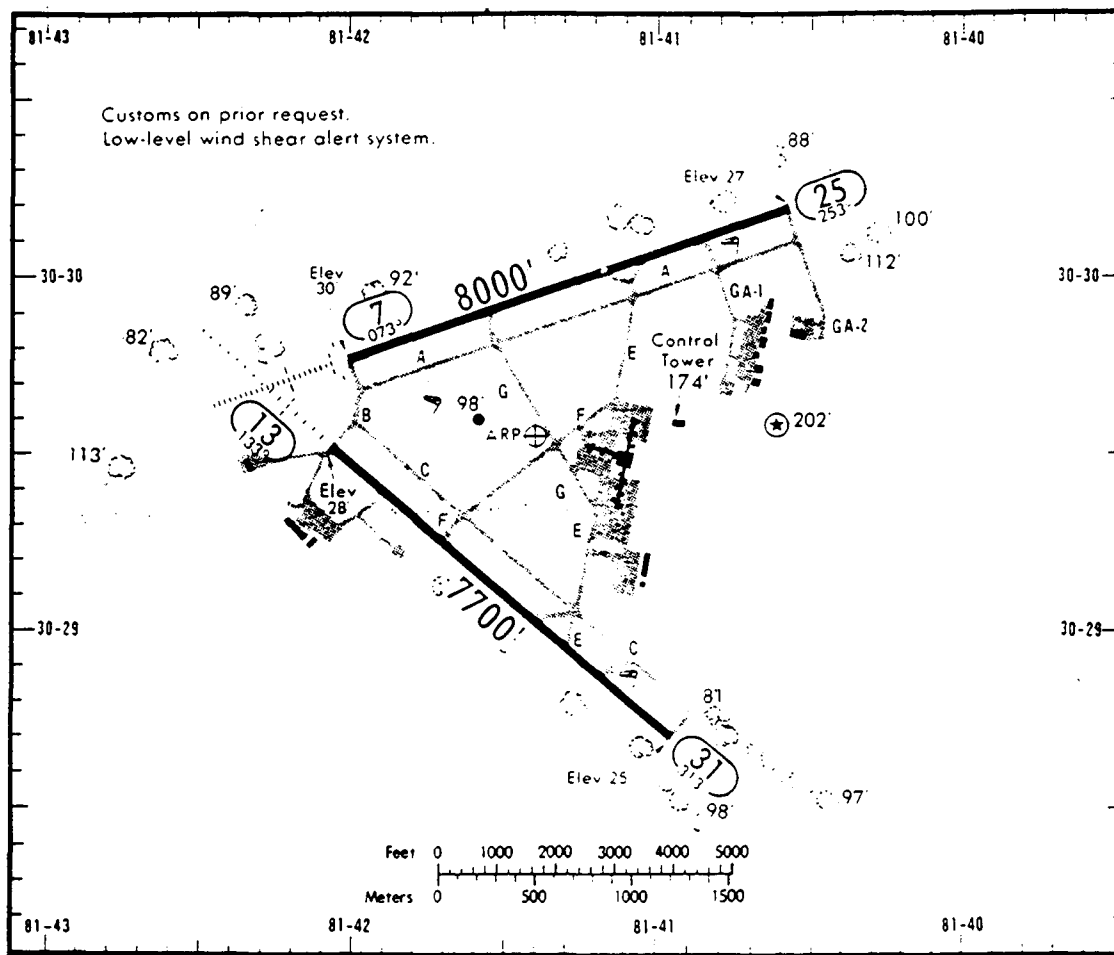
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	-
Other	-

Total Displays	2
----------------	---

FY 85	REPLACE	R/W 04
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JACKSONVILLE FL (JAX)

ASO



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EXISTING

NEW GENERATION

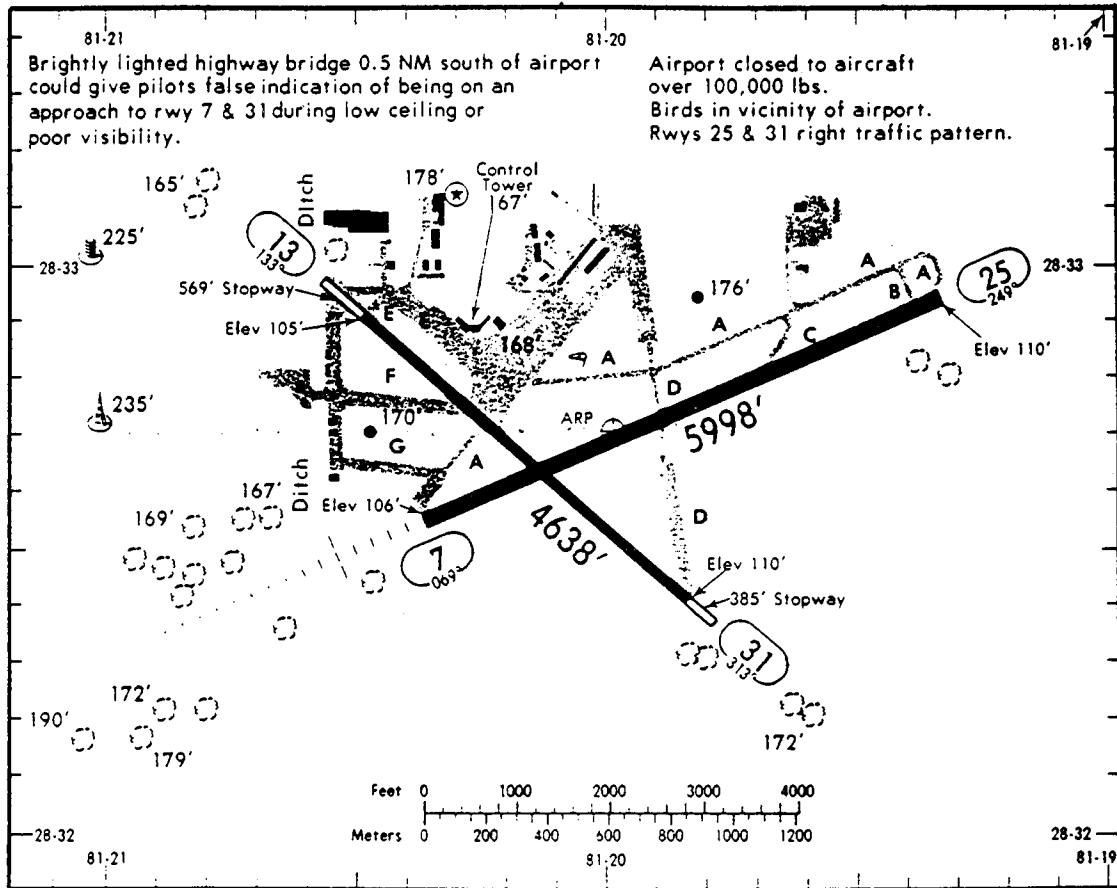
07 34714
JAX TD
07 34715
JAXA MP
JAXB RO

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	2
RLIM	-
Displays	
ATCT	1
TRACON	3
NWS	1
Other	-
Total Displays	5

FY 85	REPLACE	R/W 07
-------	---------	--------

ORLANDO FL (ORL)

ASO

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ORL TD

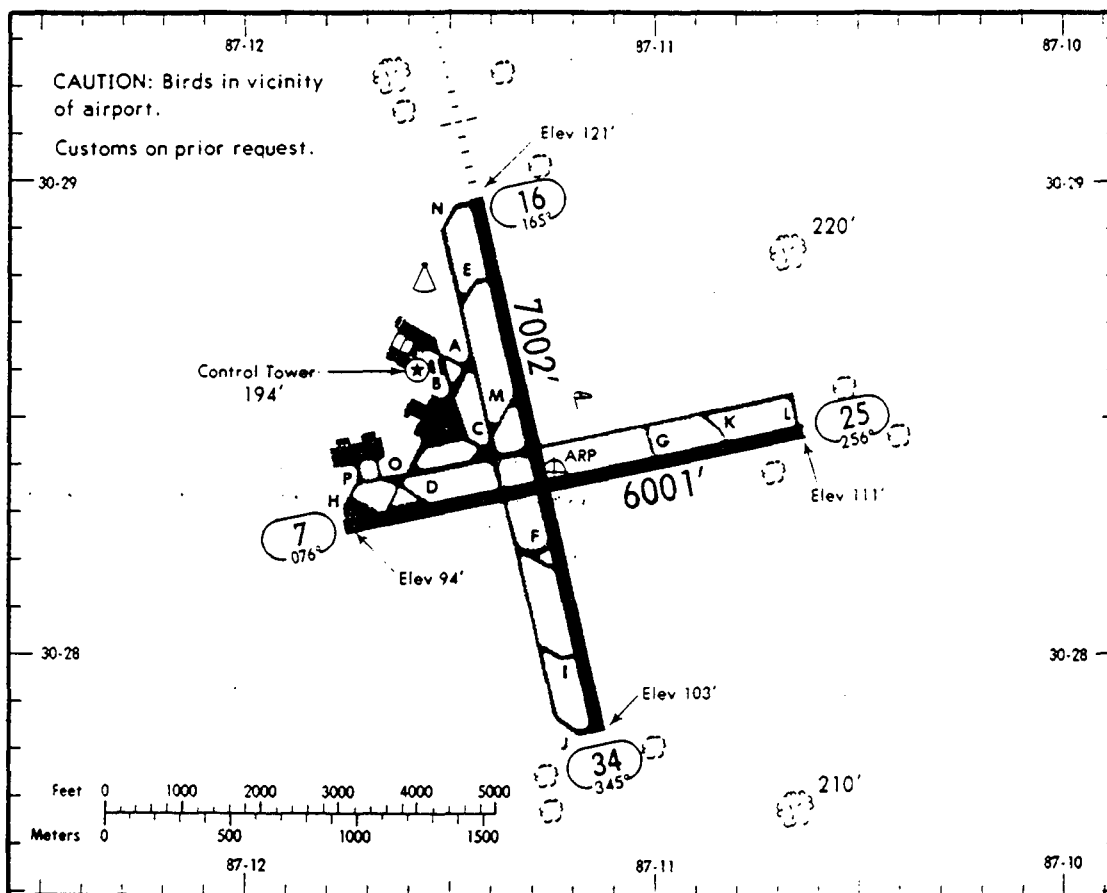
System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	-
NWS	-
Other	-
Total Displays	1

FY 85	REPLACE	R/W 07
-------	---------	--------

PENSACOLA FL (PNS)

ASO



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EXISTING

NEW GENERATION

16 347AC

PNS TD

System Elements

QTY REQ'D

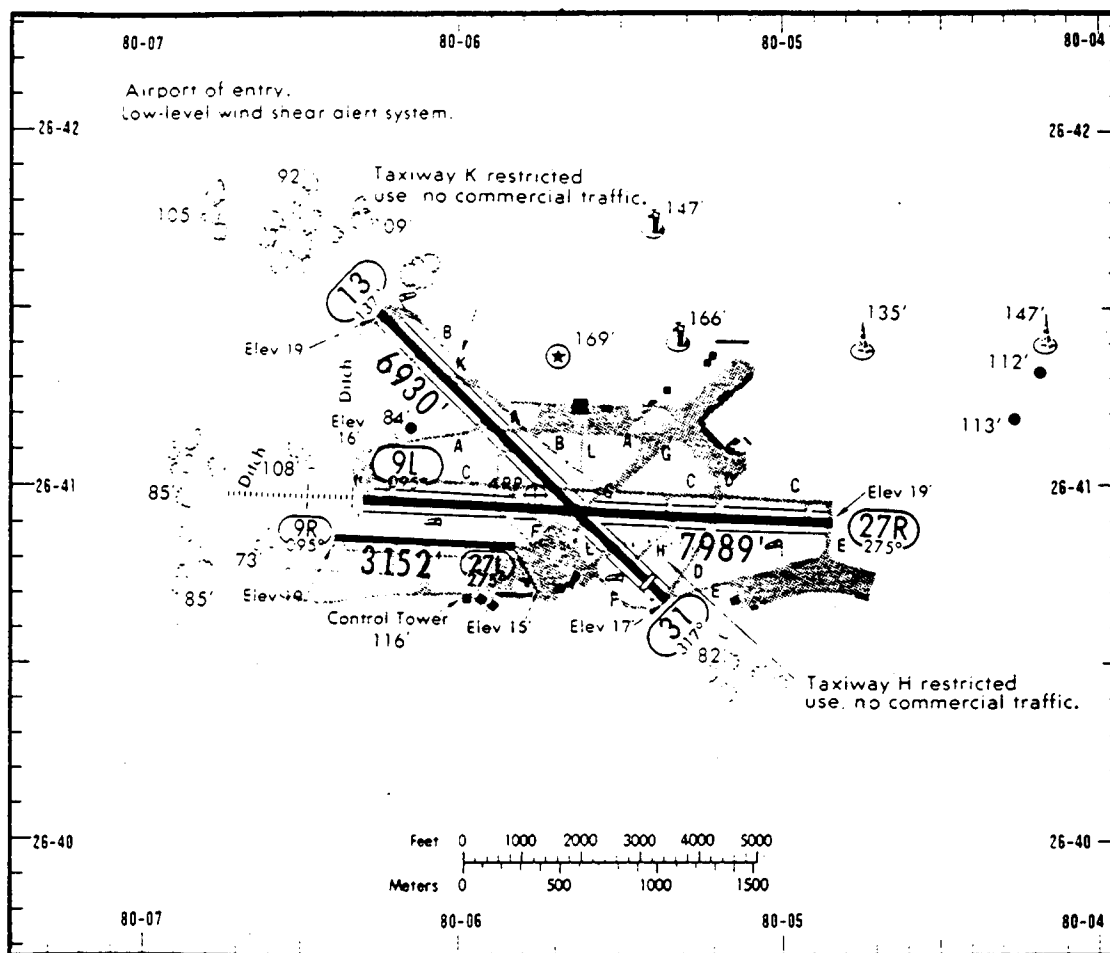
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	2
NWS	1
Other	-

Total Displays 4

FY 85	REPLACE	R/W 16
-------	---------	--------

WEST PALM BEACH FL (PBI)

ASO

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PBI TD

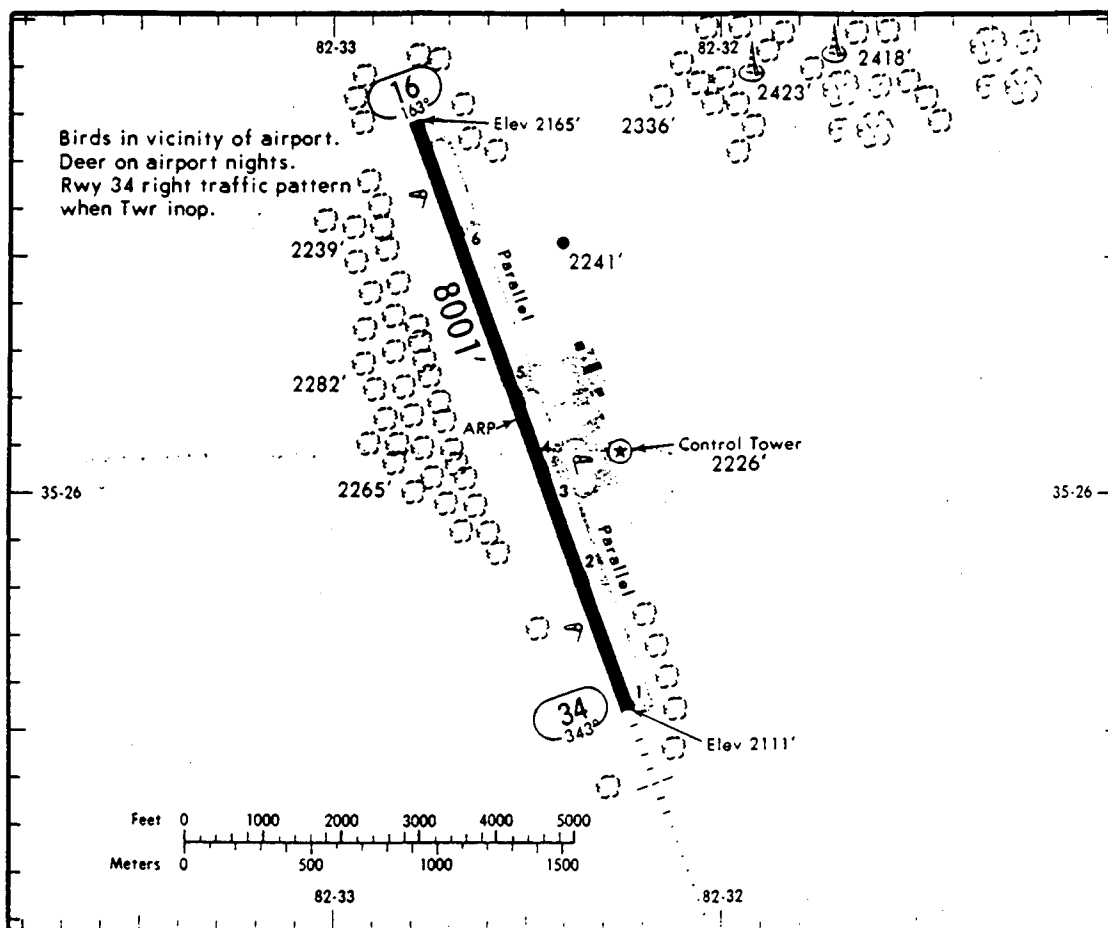
System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	2
NWS	1
Other	-
Total Displays	4

FY 85	REPLACE	R/W 09L
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ASHEVILLE NC (AVL)

ASO



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EXISTING

NEW GENERATION

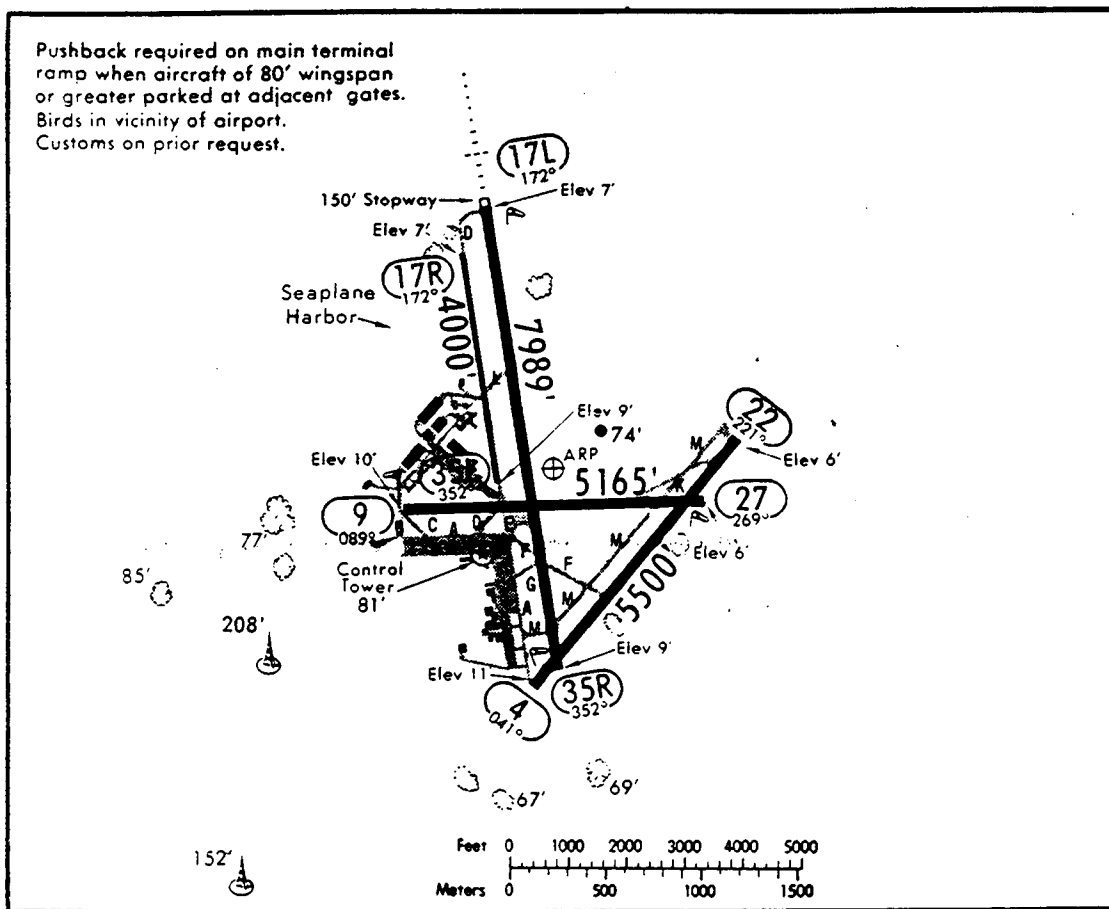
34 347AG
AVL TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		1
RLIM		-
Displays		
ATCT	1	
TRACON	3	
NWS	1	
Other	-	
Total Displays		5

FY 85	CONVERT R/VV	R/W 34
-------	--------------	--------

ST. PETERSBURG FL (PIE)

ASO

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PIE TD

System ElementsQTY REQ'D

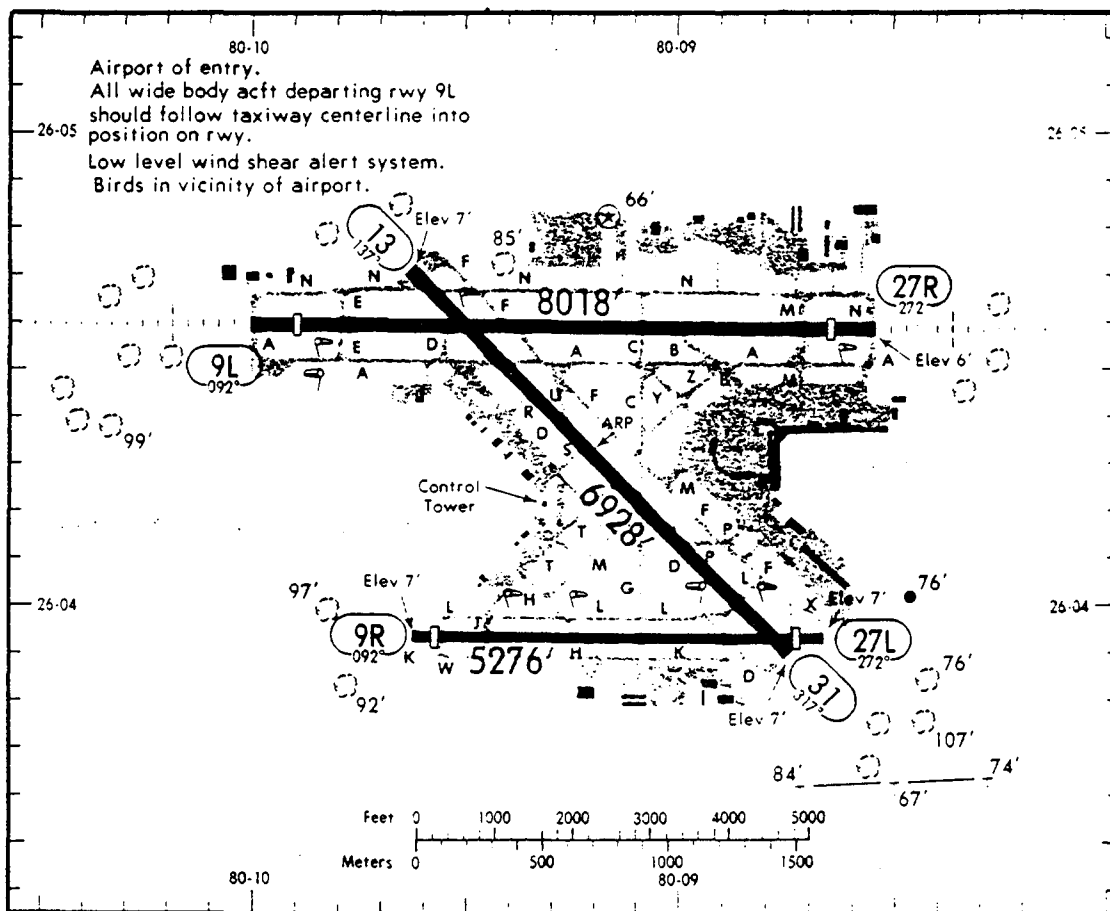
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	1
Other	-

Total Displays 3

FY 85	CONVERT RVV	R/W 17L
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FORT LAUDERDALE (FLL)

ASO



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EXISTING

NEW GENERATION

09L 347AD

LHI TD

System Elements

QTY REQ'D

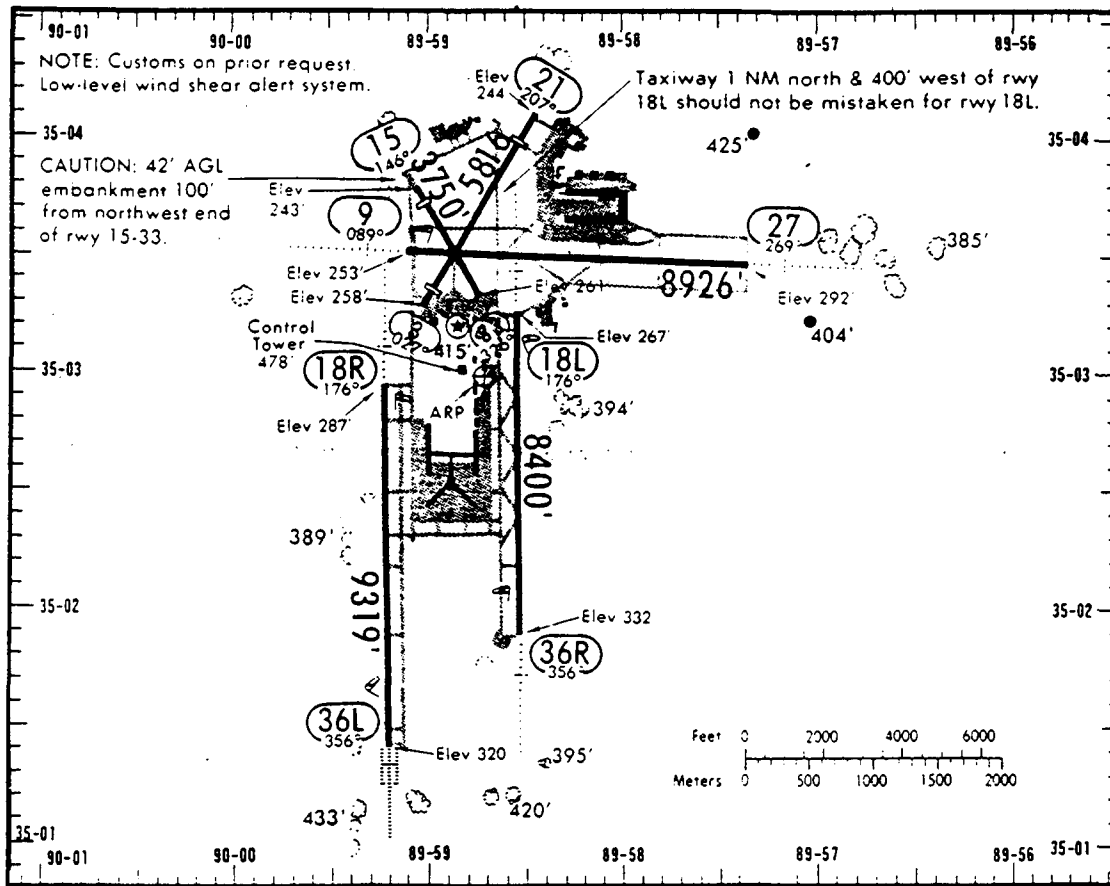
Basic 1
Sensor Packages 1
RLIM -
Displays
ATCT 2
TRACON -
NWS -
Other -

Total Displays 2

FY 86	ESTABLISH	R/W 27R
-------	-----------	---------

MEMPHIS TN (MEM)

ASO



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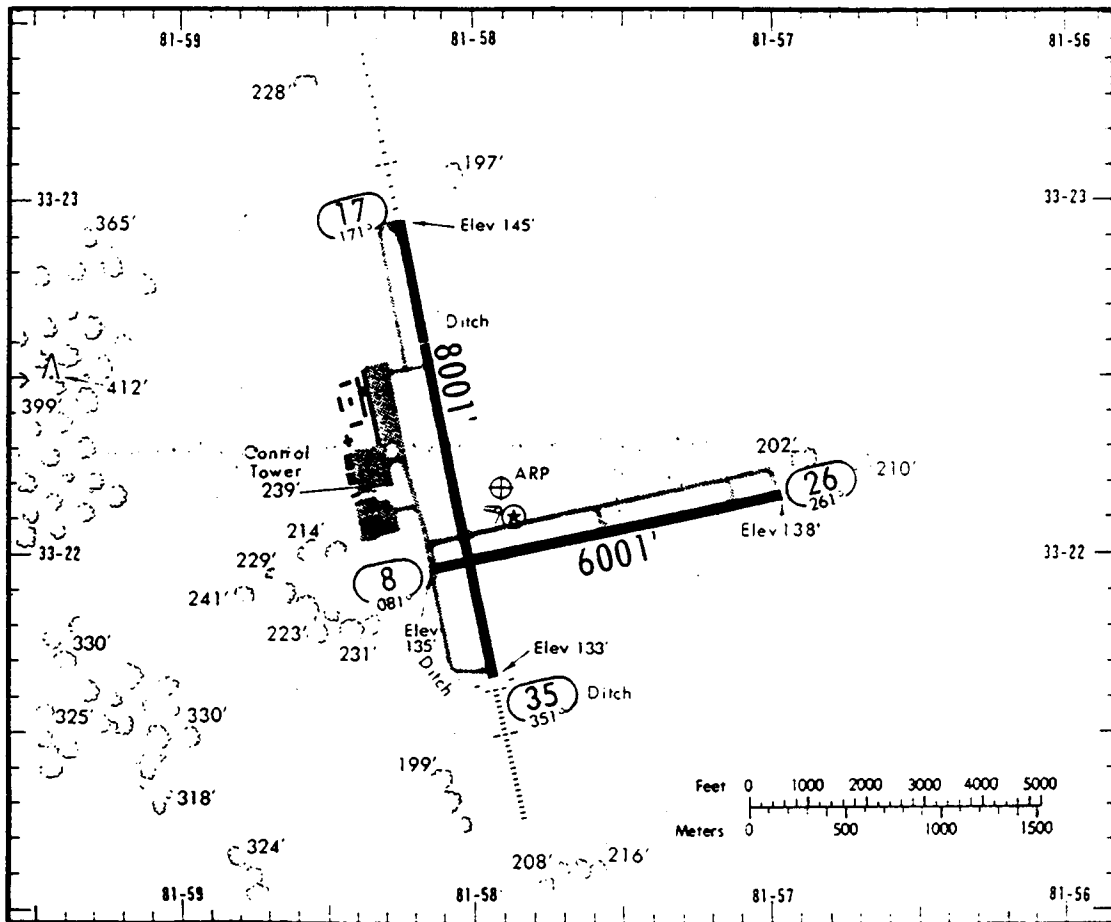
EXISTINGNEW GENERATION

	<u>347AC</u>	36R	<u>347AC</u>	<u>System Elements</u>	<u>QTY REQ'D</u>
09					
MEM	TD	TSE	TD	Basic	1
				Sensor Packages	6
36L	<u>347AC</u>			RLIM	2
				Displays	
OHN	TD			ATCT	3
OHNA	MP			TRACON	5
OHNB	RO			NWS	1
				Other	-
18L	<u>347AC</u>				
				Total Displays	9
SDV	TD				

FY 86	ESTABLISH	R/W 27
FY 86	REPLACE	R/W 36L

AUGUSTA GA (AGS)

ASO



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EXISTING

NEW GENERATION

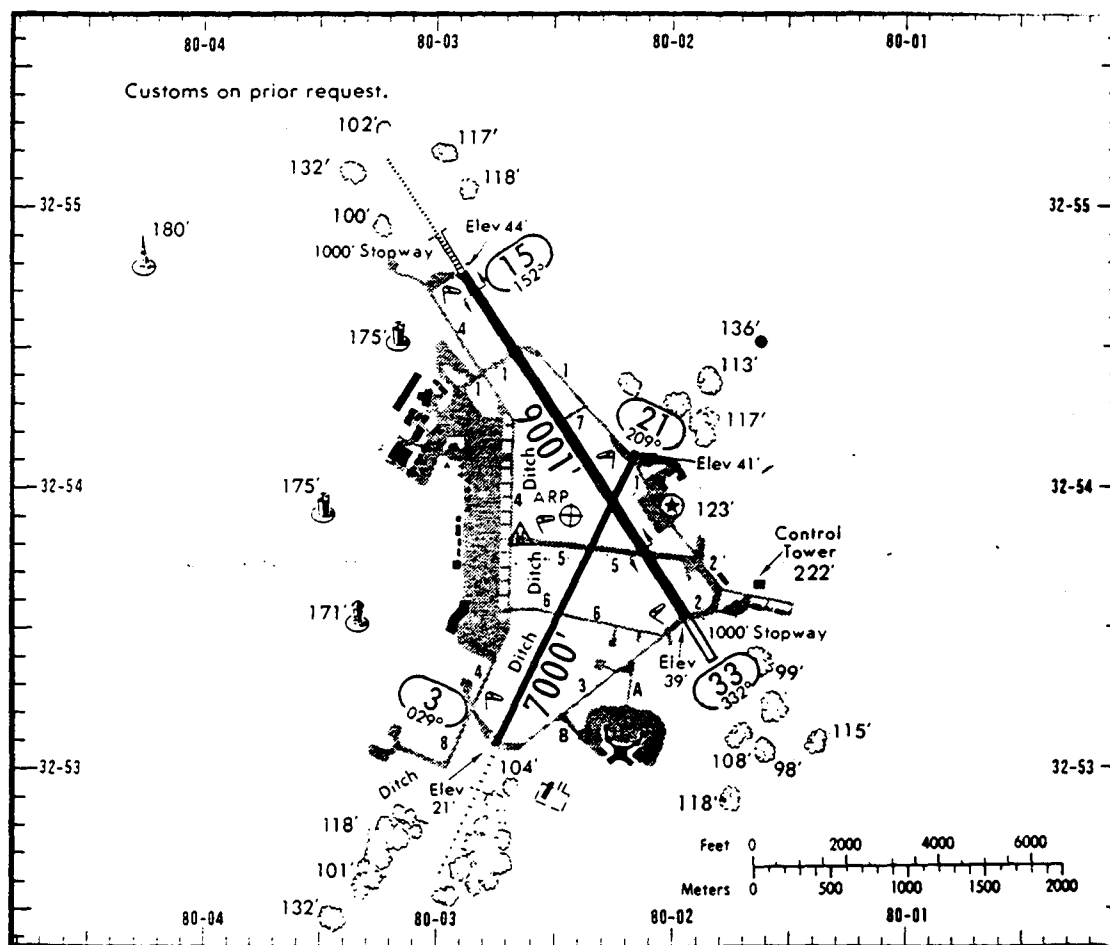
35 347AC
AGS TD
35 347AD
AGSA RO

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		1
RLIM		-
Displays		
ATCT	1	
TRACON	2	
NWS	1	
Other	-	
Total Displays		4

FY 86	REPLACE	R/W 35
-------	---------	--------

CHARLESTON SC (CHS)

ASO



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EXISTINGNEW GENERATION

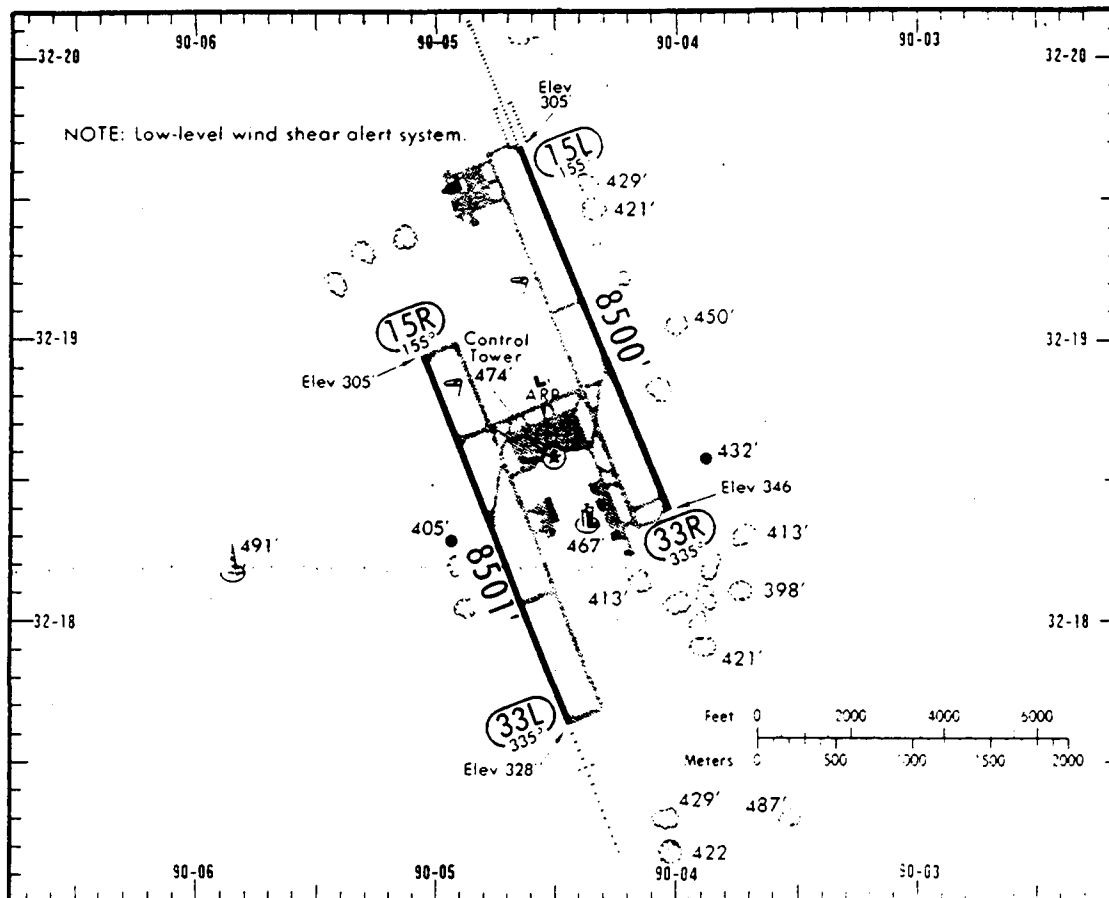
15 347AD
CHS TD
CHSA MP
CHSB RO

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	2
RLIM	-
Displays	
ATCT	2
TRACON	4
NWS	1
Other	-
Total Displays	7

FY 86	REPLACE	R/W 15
-------	---------	--------

JACKSON MS (JAN)

ASO



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EXISTING

NEW GENERATION

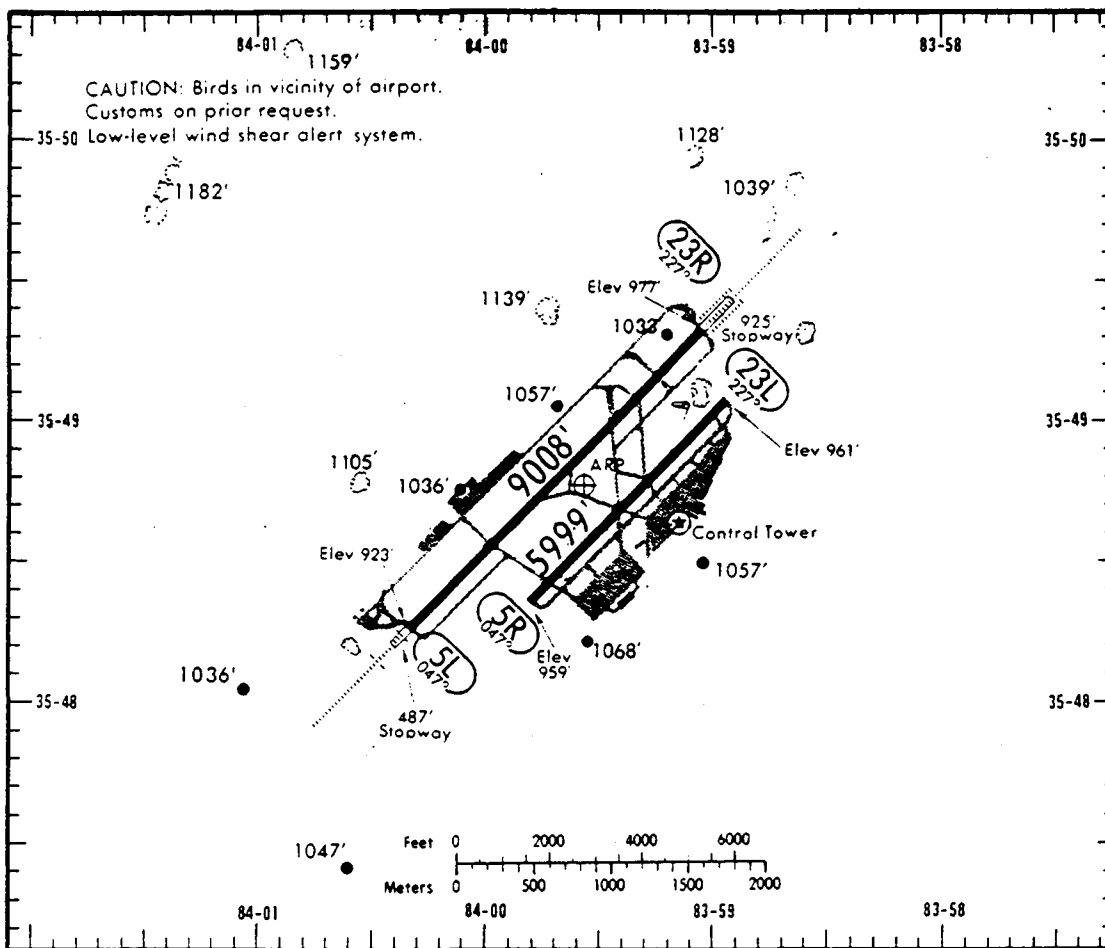
15L 347AD
JAN TD
JANA MP
JANB RO

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		2
Sensor Packages		2
RLIM		-
Displays		
ATCT	4	
TRACON	3	
NWS	1	
Other	-	
Total Displays		8

FY 86	REPLACE	R/W 15L
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KNOXVILLE TN (TYS)

ASO



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EXISTINGNEW GENERATION

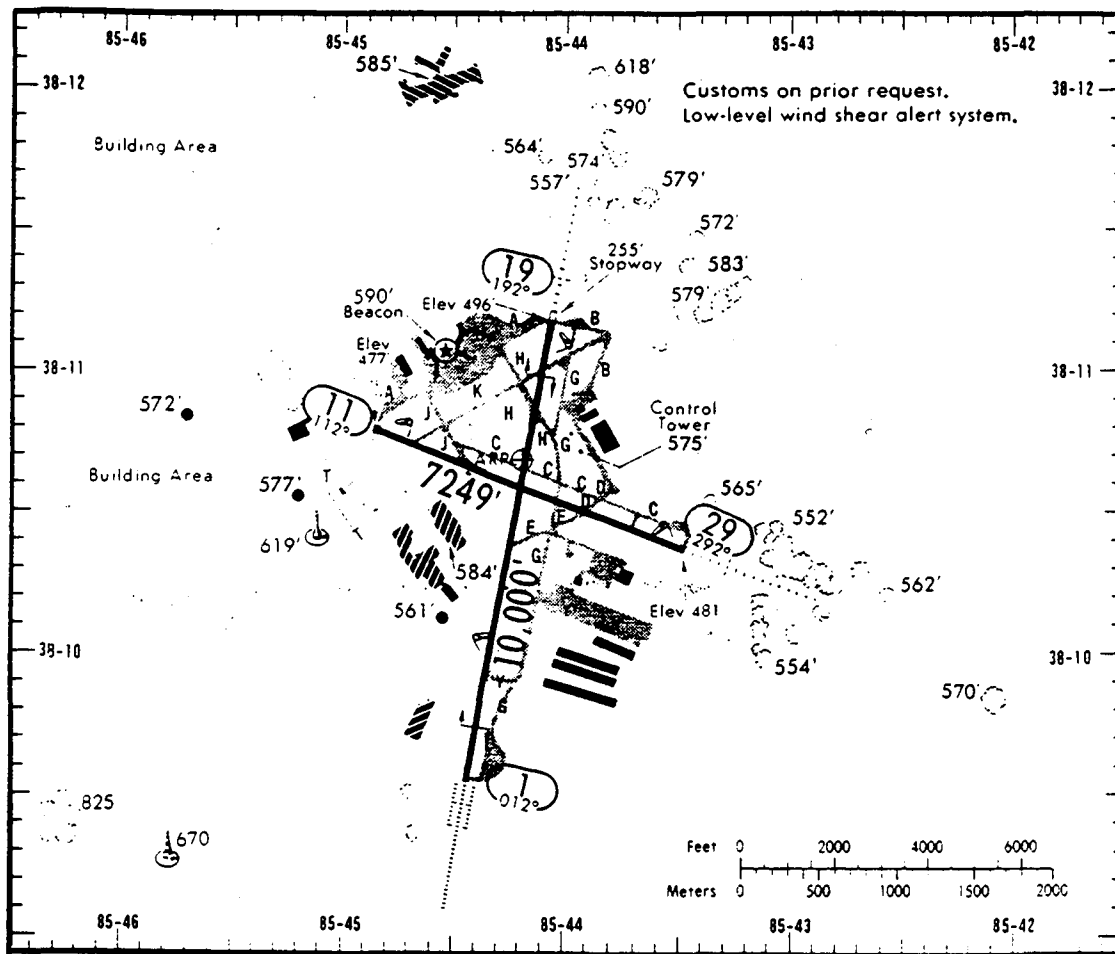
23R 34715
BUI TD
BUIA RO
05L 34715
TYS TD

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	2
RLIM	-
Displays	
ATCT	2
TRACON	3
NWS	1
Other	-
Total Displays	6

FY 86	REPLACE	R/W 05L
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LOUISVILLE KY (SDF)

ASO



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EXISTING

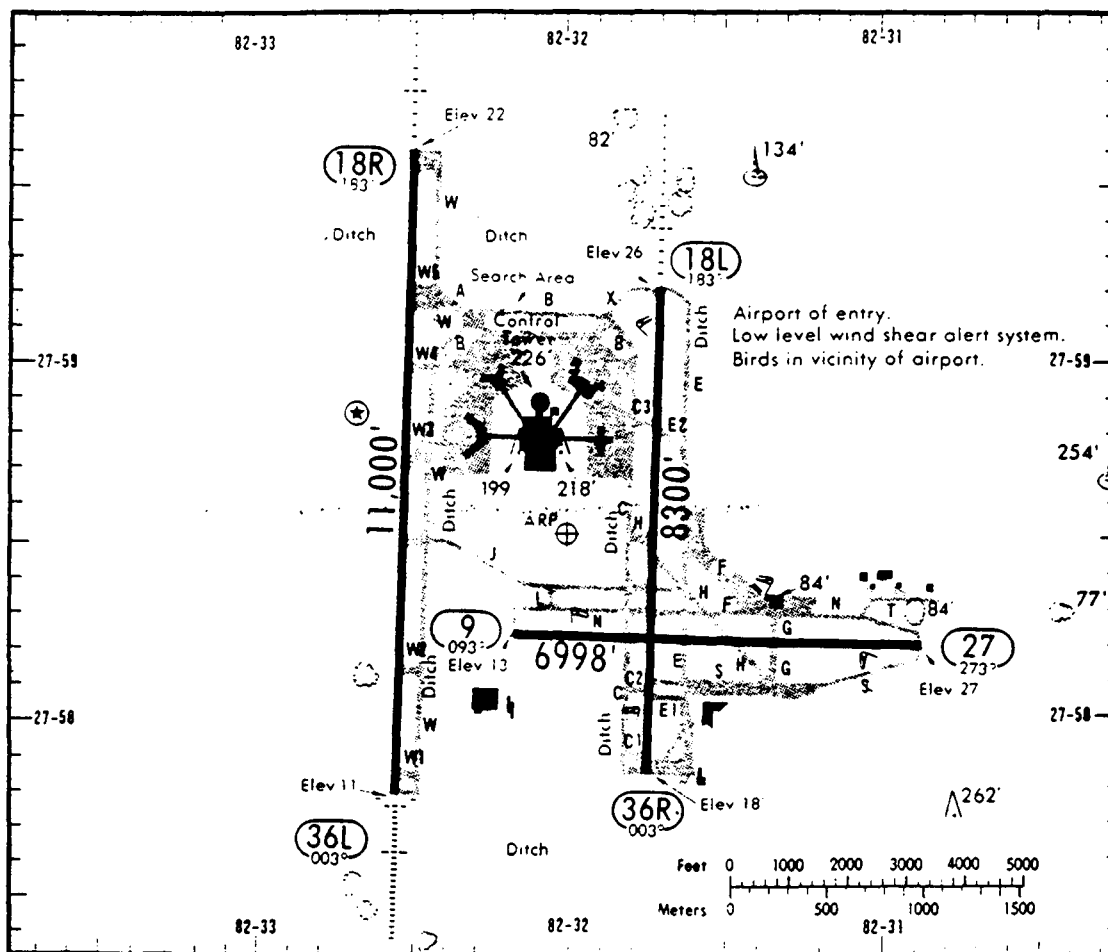
NEW GENERATION

		<u>System Elements</u>	<u>QTY REQ'D</u>
29	<u>34712</u>		
LKS	TD	Basic	1
		Sensor Packages	2
01	<u>34715</u>	RLIM	1
		Displays	
SDF	TD	ATCT	2
		TRACON	4
19	<u>34715</u>	NWS	1
		Other	-
ANO	TD	Total Displays	7

FY 86	REPLACE	R/W 01
-------	---------	--------

TAMPA FL (TPA)

ASO



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EXISTING

NEW GENERATION

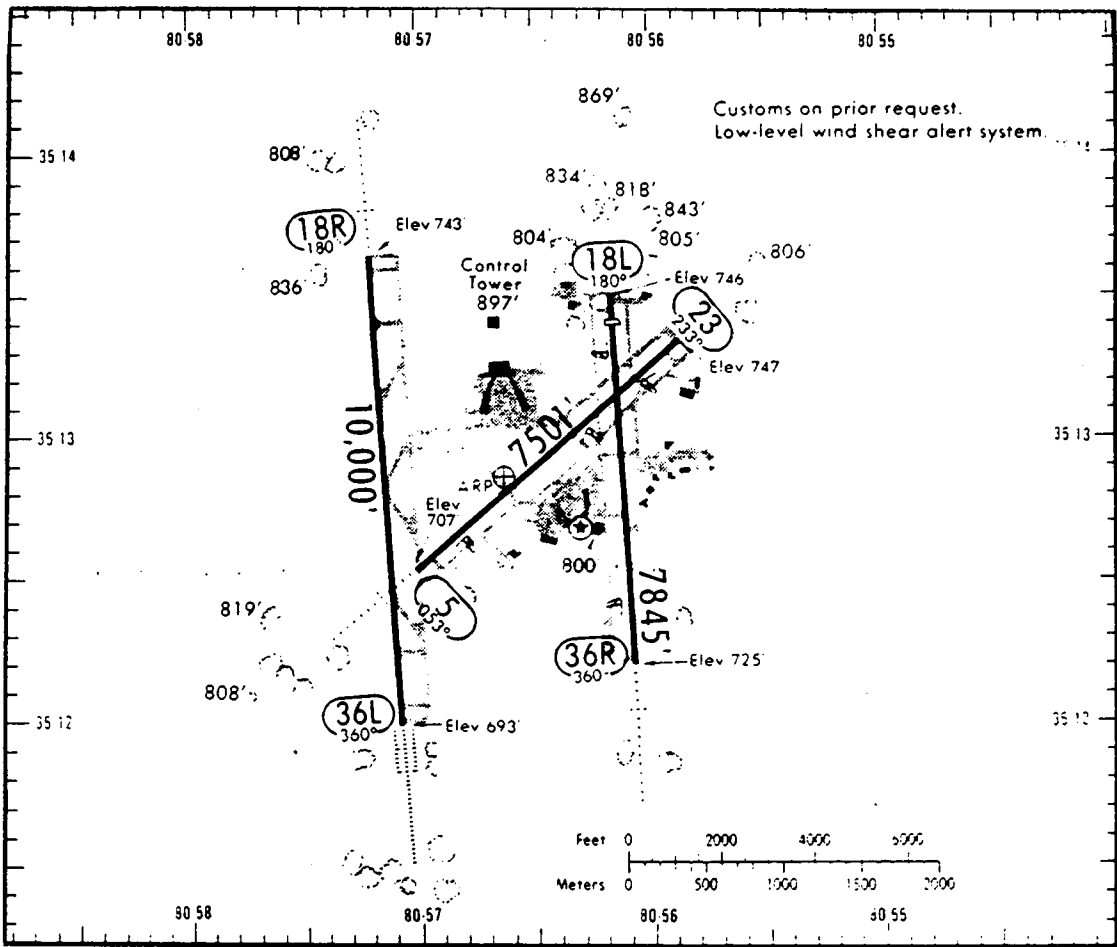
18L	<u>347AC</u>
TPA	TD
36L	<u>347AD</u>
AMP	TD
AMPA	MP
AMPB	RO

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	3
RLIM	1
Displays	
ATCT	1
TRACON	3
NWS	1
Other	-
Total Displays	5

FY 86	REPLACE	R/W 36L
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CHARLOTTE NC (CLT)

ASO



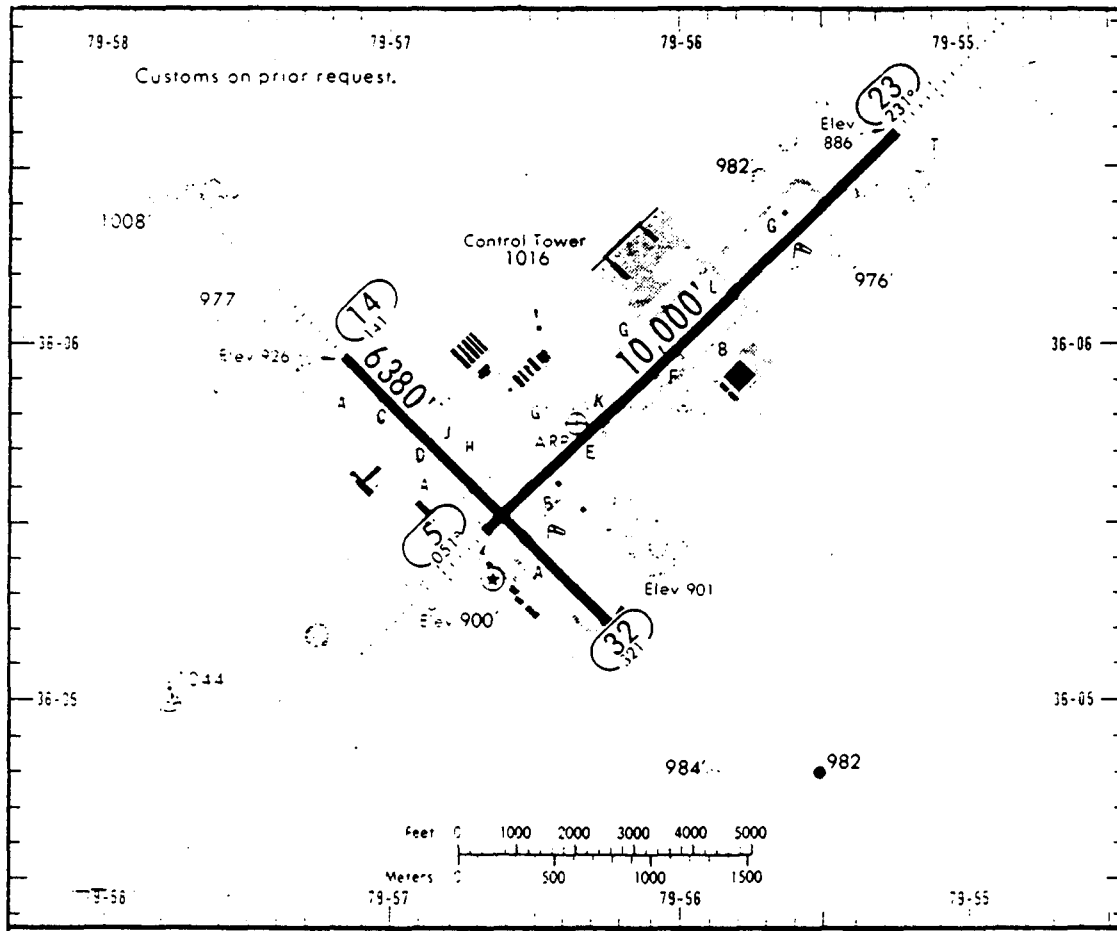
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EXISTING		NEW GENERATION	
		System Elements	QTY REQ'D
05	347AE		
CLT	TD	Basic	1
		Sensor Packages	5
36L	347AE	RLIM	2
		Displays	
DOG	TD	ATCT	2
DOGA	MP	TRACON	4
DOBG	RO	NWS	1
		Other	-
		Total Displays	7

FY 88	ESTABLISH	R/W 18L/36R
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GREENSBORO NC (GSO)

ASO



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EXISTINGNEW GENERATION

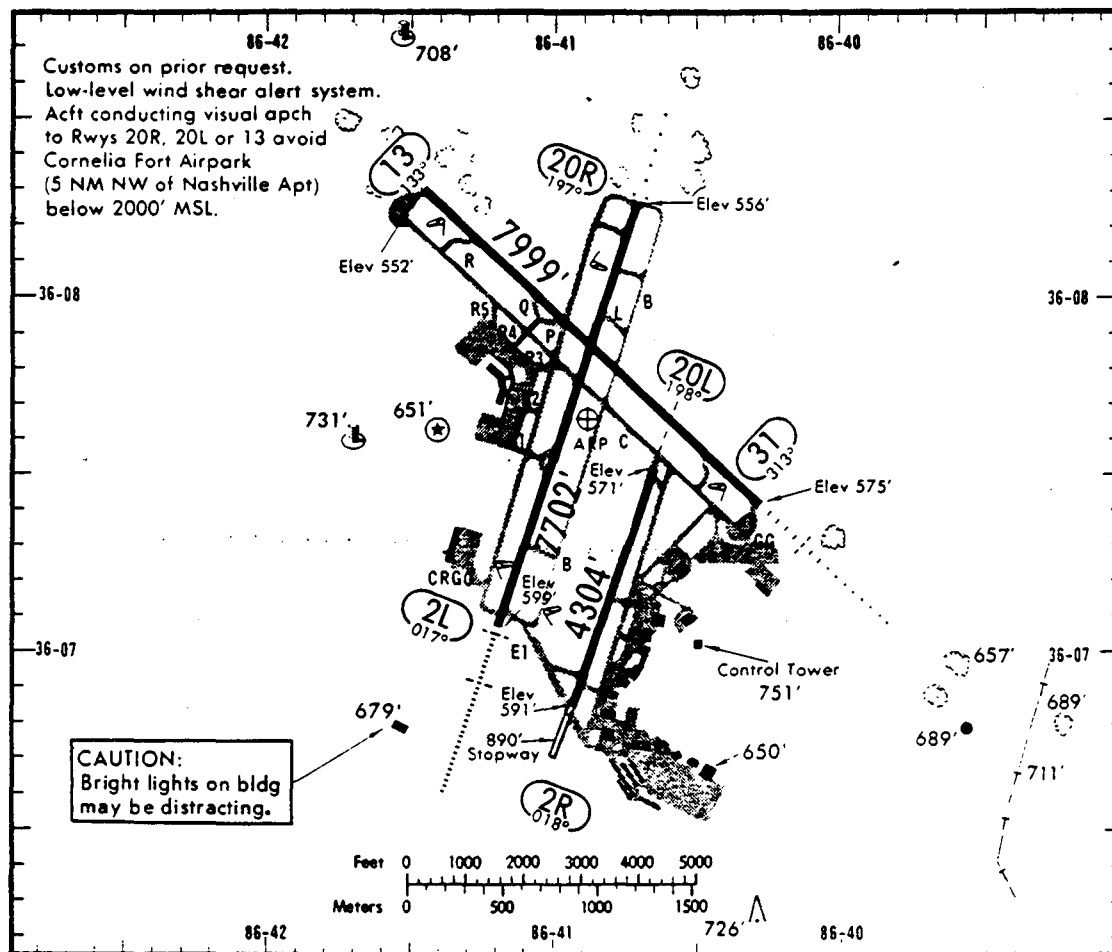
23 34716
HIH TD
14 34716
GSO TD

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	2
RLIM	1
Displays	
ATCT	1
TRACON	2
NWS	1
Other	-
Total Displays	4

FY 88	ESTABLISH	R/W 05
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NASHVILLE TN (BNA)

ASO



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EXISTING

NEW GENERATION

02L 347AE

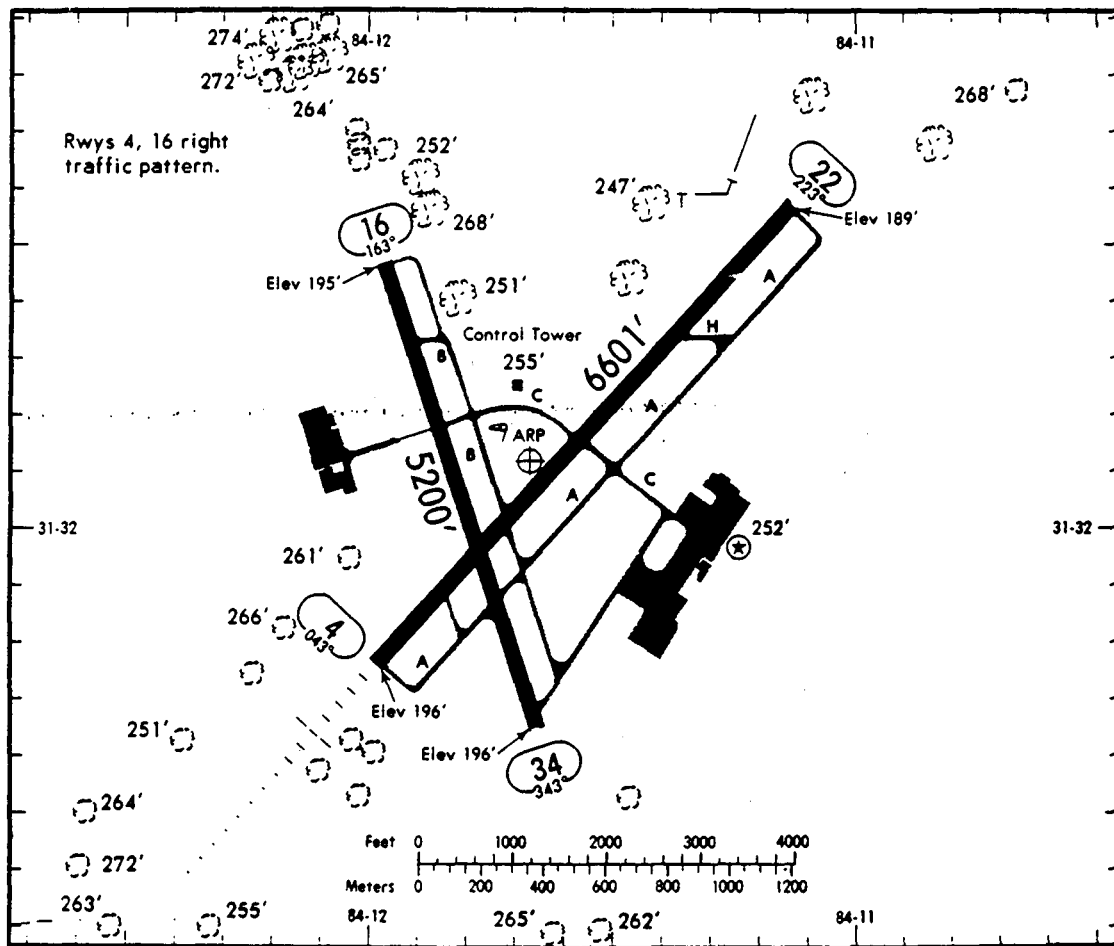
BNA TD
BNAA RO

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		4
RLIM		2
Displays		
ATCT	2	
TRACON	3	
NWS	1	
Other	-	
Total Displays		6

FY 86	ESTABLISH	R/W 03/21
-------	-----------	-----------

ALBANY GA (ABY)

ASO

EXISTINGNEW GENERATION04 347AE

MBY TD

System ElementsQTY REQ'D

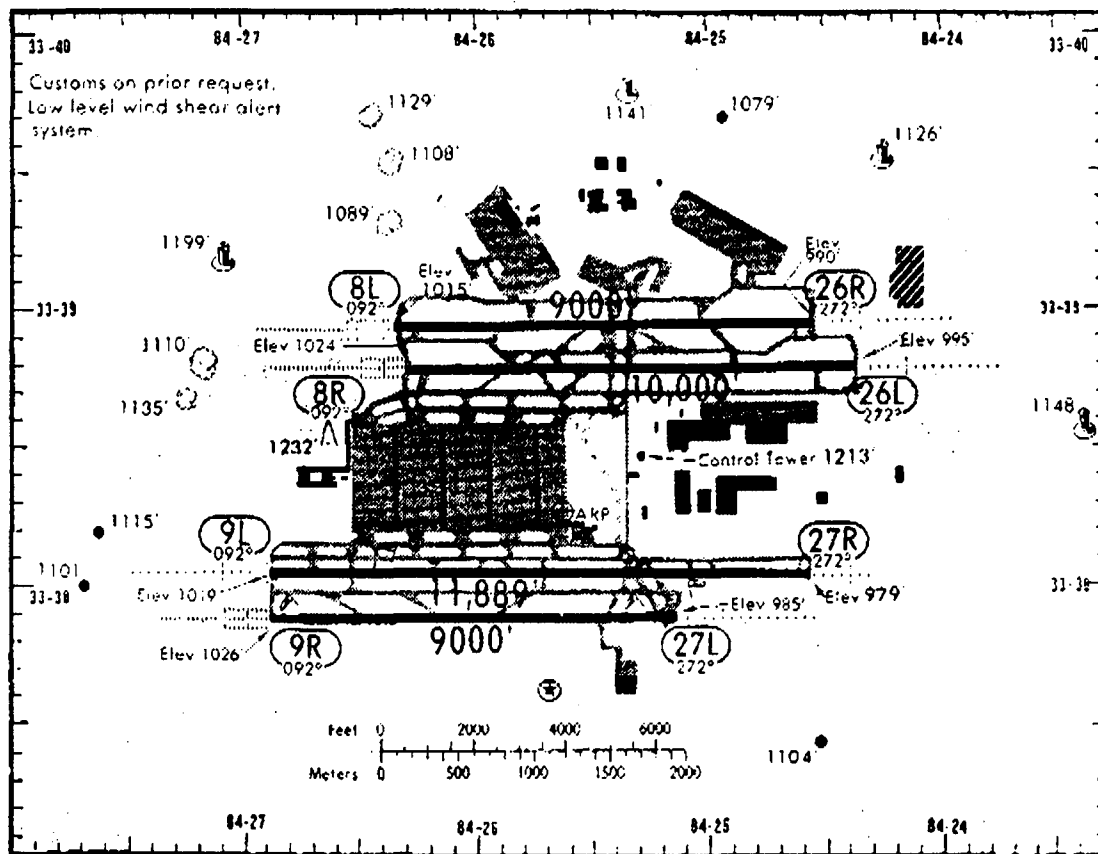
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	-
NWS	-
Other	1
Total Displays	2

FY 93

REPLACE

R/W 04

ASO



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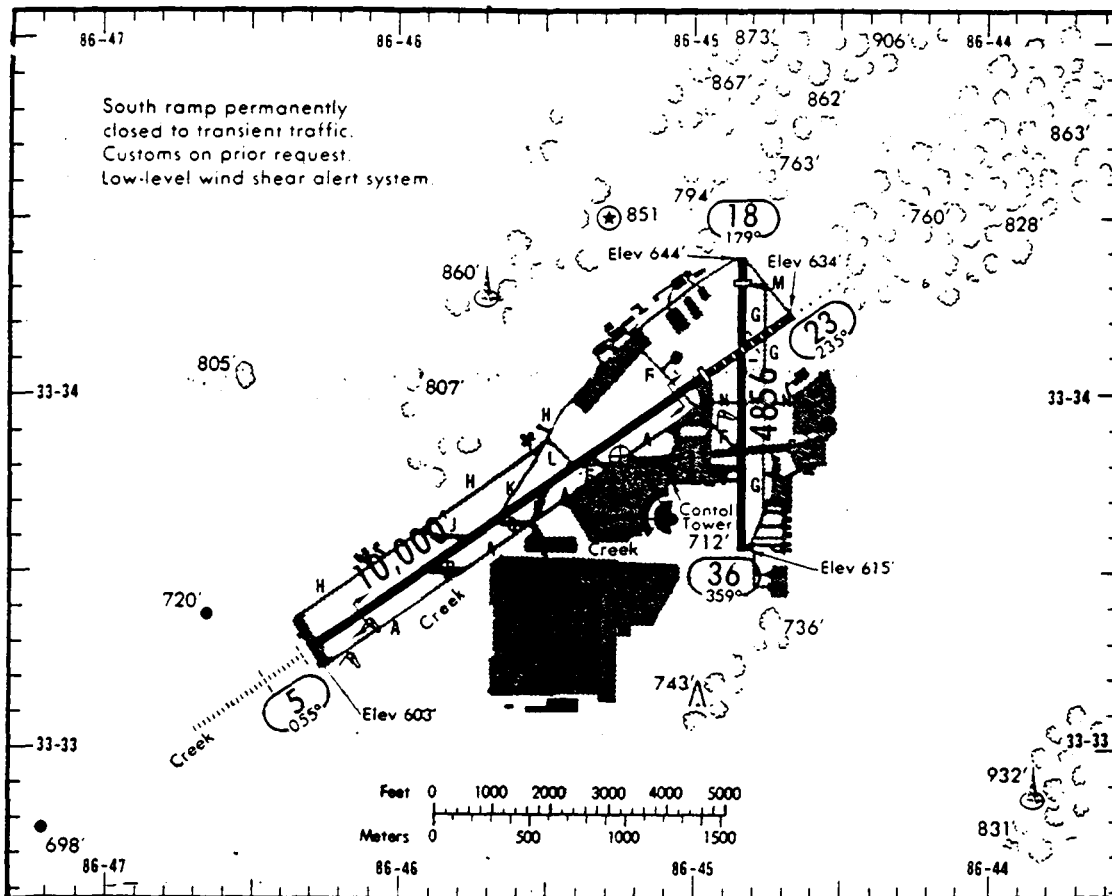
NEW GENERATION

08R	<u>347AE</u>	27L	<u>347AE</u>	<u>System Elements</u>		<u>QTY REQ'D</u>
ATL	TD	FUNB	MP	Basic		1
ATLA	RO			Sensor Packages		6
				RLIM		2
26L	<u>347AE</u>	27R	<u>347AE</u>	Displays		
				ATCT	3	
ATLB	MP	AFA	TD	TRACON	8	
				NWS	2	
09R	<u>347AE</u>			Other	—	
FUN	TD			Total Displays		13
FUNA	RO					

FY 93	REPLACE	R/W 08R/26L, 09R/27L, 27R
-------	---------	---------------------------

BIRMINGHAM AL (BHM)

ASO



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EXISTINGNEW GENERATION05 34716

BHM TD
BHMA RO
BHMB MP

System ElementsQTY REQ'D

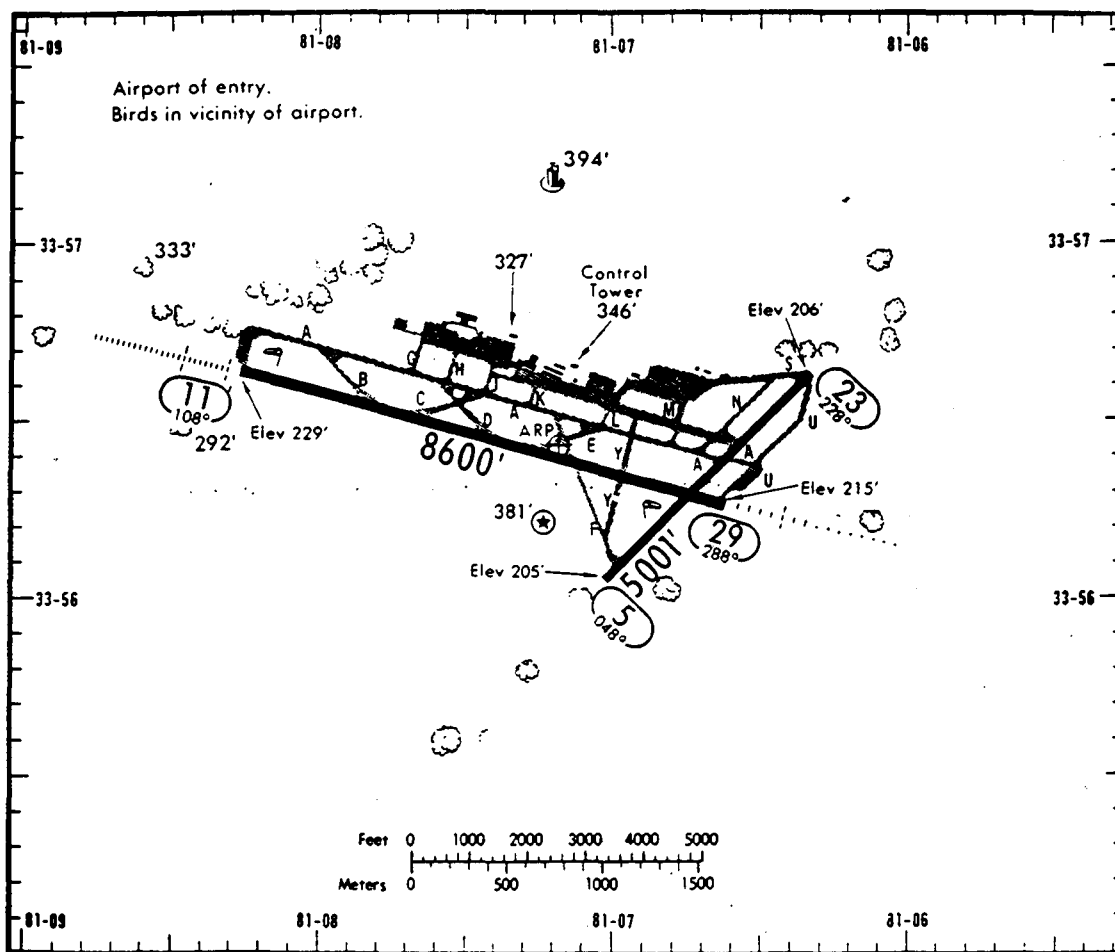
Basic	1
Sensor Packages	2
RLIM	-
Displays	
ATCT	2
TRACON	2
NWS	-
Other	2

Total Displays	6
----------------	---

FY 93	REPLACE	R/W 05
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COLUMBIA SC (CAE)

ASO



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EXISTING

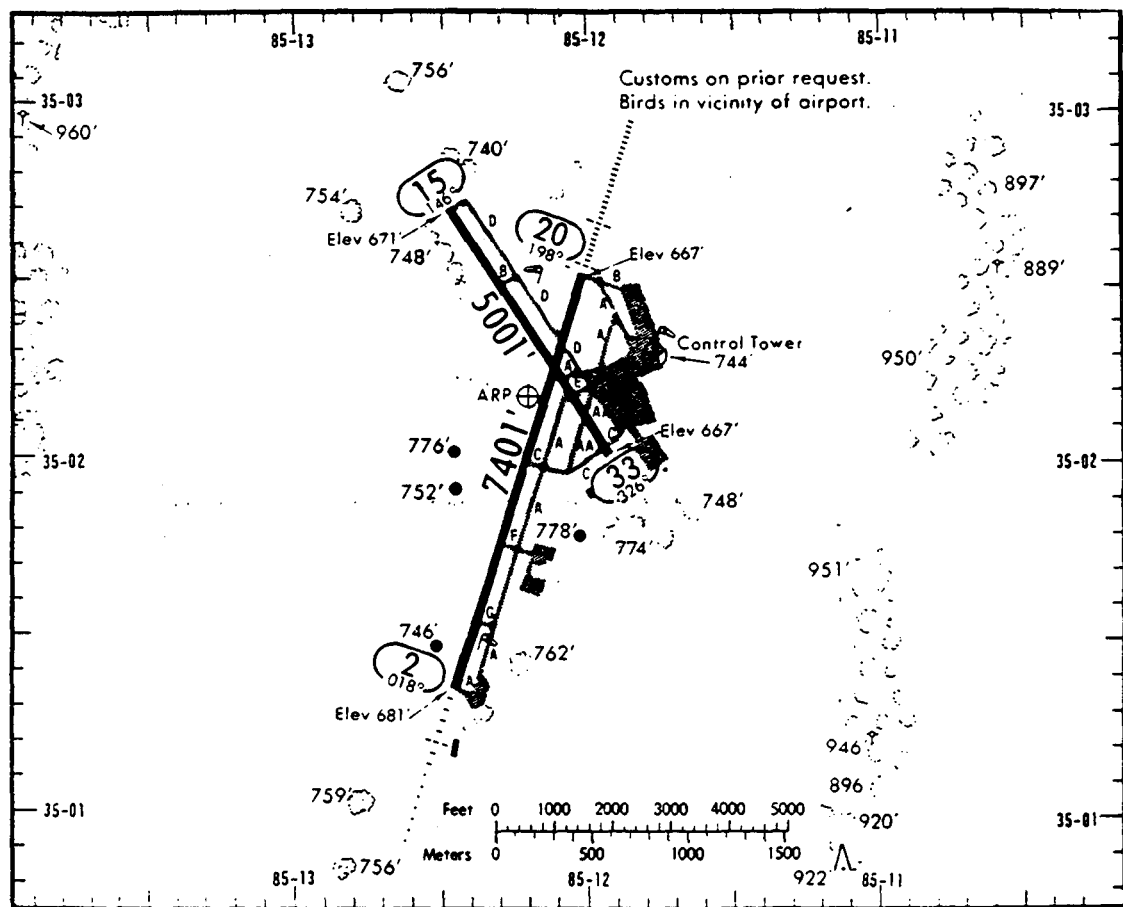
NEW GENERATION

11	347AE	System Elements	QTY REQ'D
CAE	TD	Basic	1
CAEA	RO	Sensor Packages	1
		RLIM	-
		Displays	
		ATCT	1
		TRACON	2
		NWS	1
		Other	-
		Total Displays	4

FY 93	REPLACE	R/W 11
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CHATTANOOGA TN (CHA)

ASO

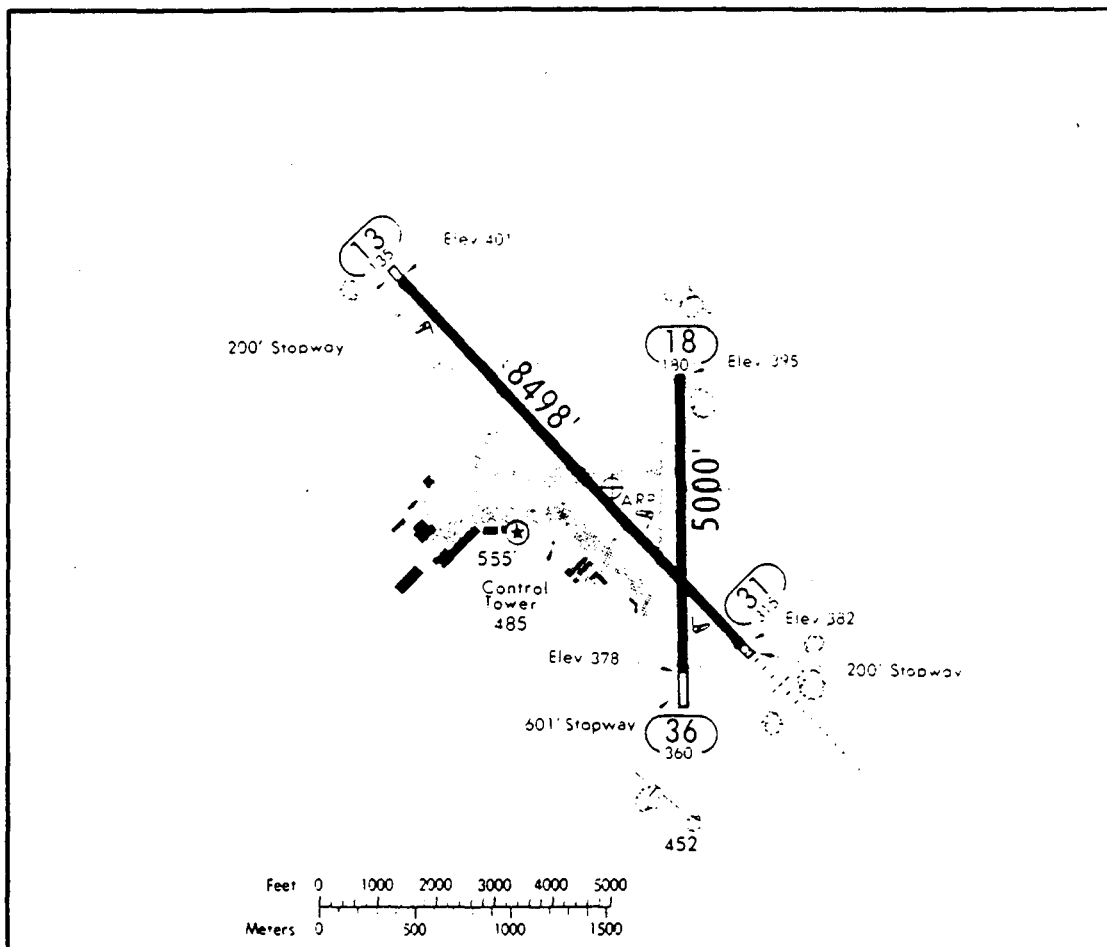
©JEPPESEN SANDERSON, INC., 1986, 1987.
ALL RIGHTS RESERVEDEXISTINGNEW GENERATION20 34716CHA TD
CHAA ROSystem ElementsQTY REQ'D

Basic	1
Sensor Packages	1
RLIM	-
Displays	
ATCT	1
TRACON	3
NWS	1
Other	-
Total Displays	5

FY 93	REPLACE	R/W 20
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DOTHAN AL (DHN)

ASO



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EXISTING

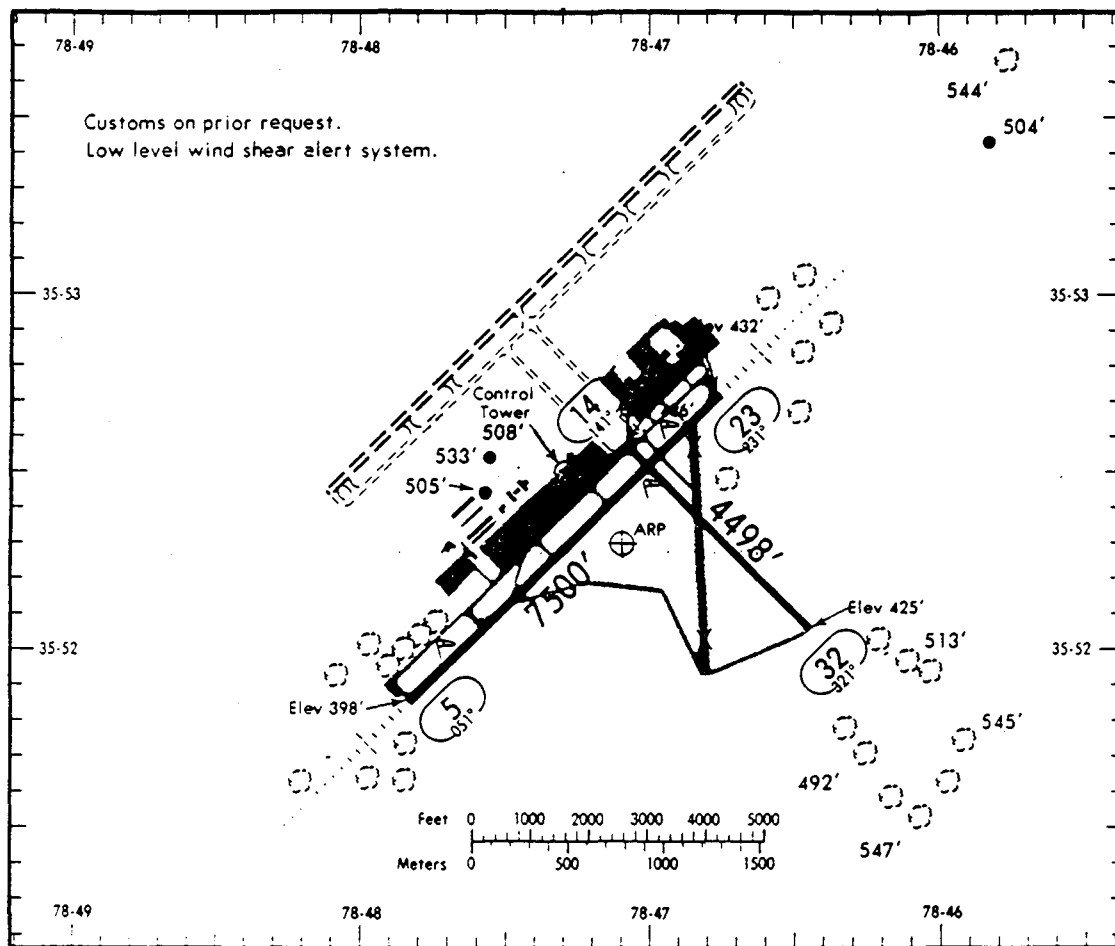
NEW GENERATION

		<u>System Elements</u>	<u>QTY REQ'D</u>
31	<u>347AE</u>	Basic	1
DHN	TD	Sensor Packages	-
		RLIM	-
		Displays	
		ATCT	1
		TRACON	-
		NWS	-
		Other	1
		Total Displays	2

FY 93	REPLACE	R/W 31
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RALEIGH NC (RDU)

ASO

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05R 347AE

RDV TD

23R 347AE

LEIA TD

LEIB MP

LEIC RO

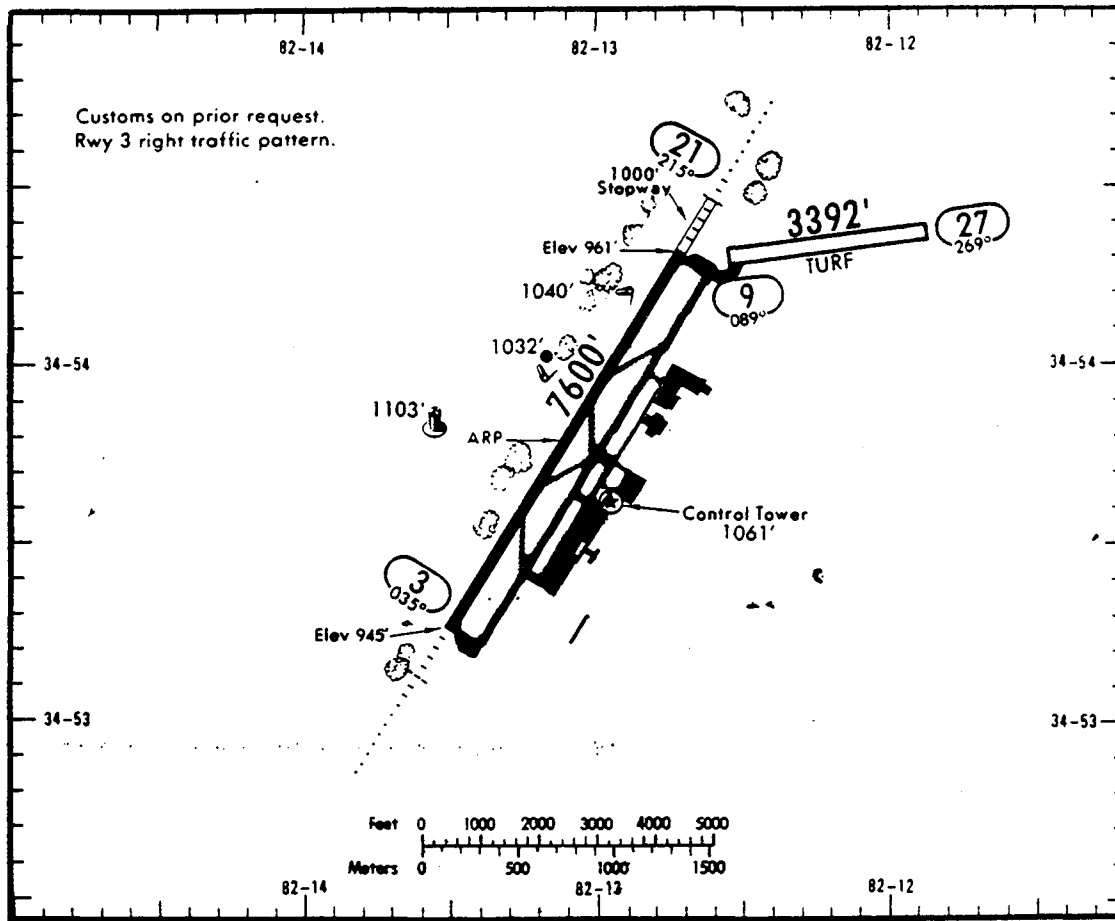
System Elements		QTY REQ'D
Basic		1
Sensor Packages		3
RLIM		1
Displays		
ATCT	2	
TRACON	4	
NWS	1	
Other	-	
Total Displays		7

FY 93	REPLACE	R/W 5R, 23R
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8/10/88

GREER SC (GSP)

ASO



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EXISTING

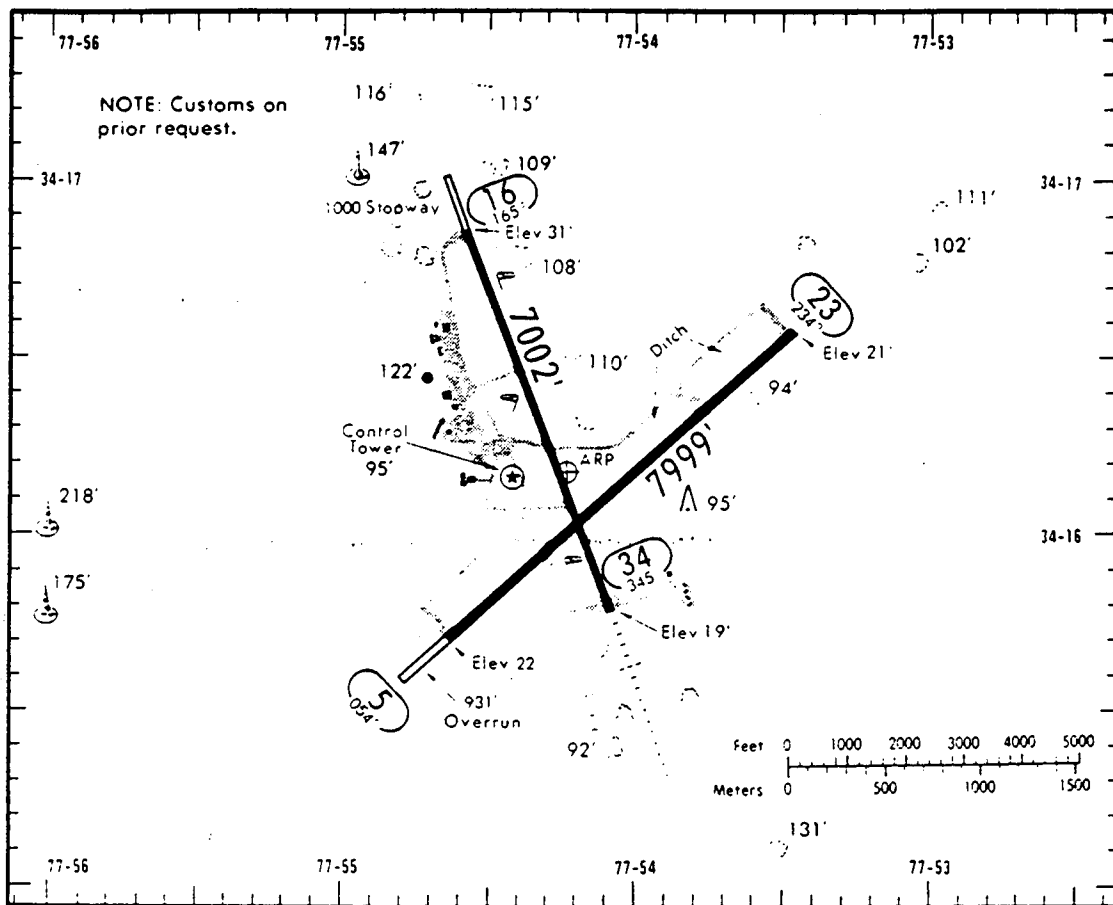
NEW GENERATION

		System Elements	QTY REQ'D
03	<u>347AE</u>		
GSP	TD	Basic	1
GSPA	RO	Sensor Packages	1
		RLIM	-
		Displays	
		ATCT	1
		TRACON	2
		NWS	1
		Other	-
		Total Displays	4

FY 93	REPLACE	R/W 03
-------	---------	--------

WILMINGTON NC (ILM)

ASO

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ALL RIGHTS RESERVEDEXISTINGNEW GENERATION34 347AE

ILM TD

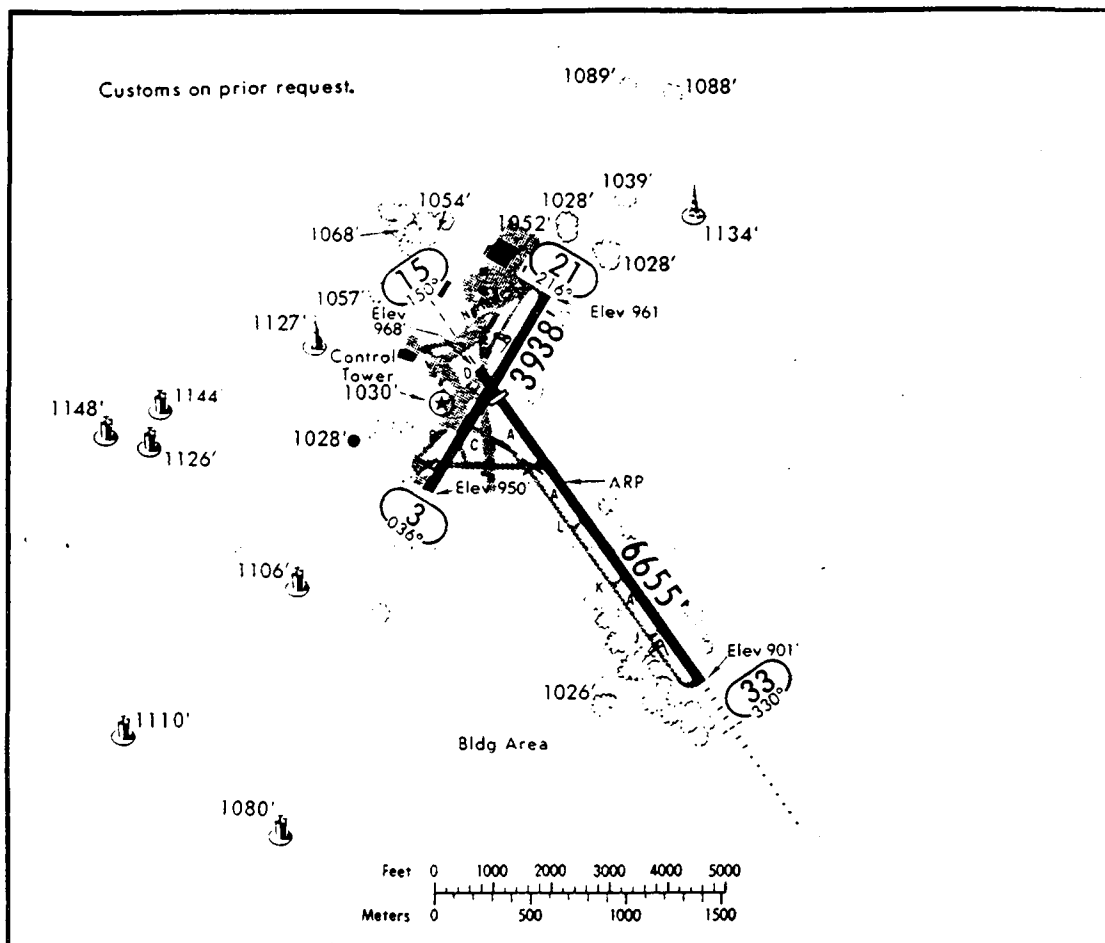
System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	-
NWS	1
Other	-
Total Displays	2

FY 93	REPLACE	R/W 34
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WINSTON SALEM NC (INT)

ASO



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EXISTING

NEW GENERATION

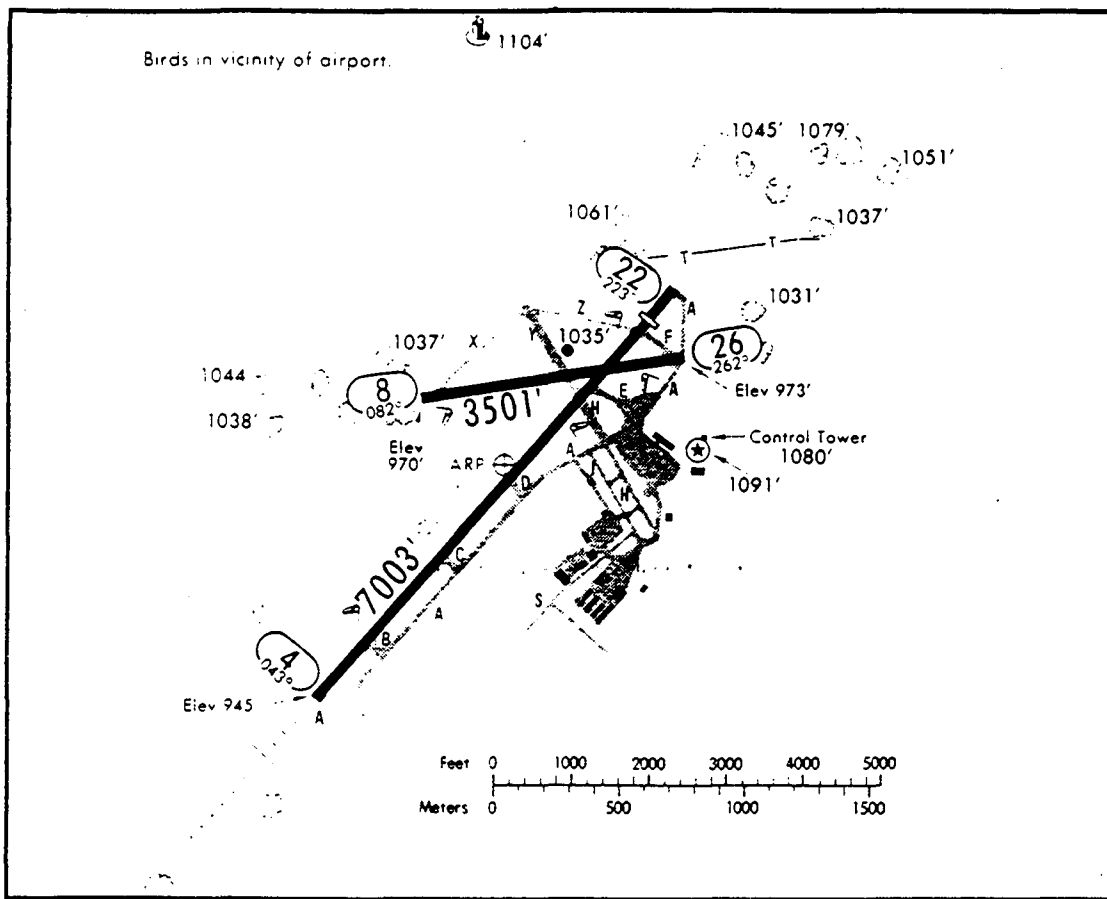
33 34716
INT TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	-	
NWS	-	
Other	-	
Total Displays		1

FY 93	REPLACE	R/W 33
-------	---------	--------

LEXINGTON KY (LEX)

ASO



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EXISTINGNEW GENERATION04 347AE

LEX TD

System ElementsQTY REQ'D

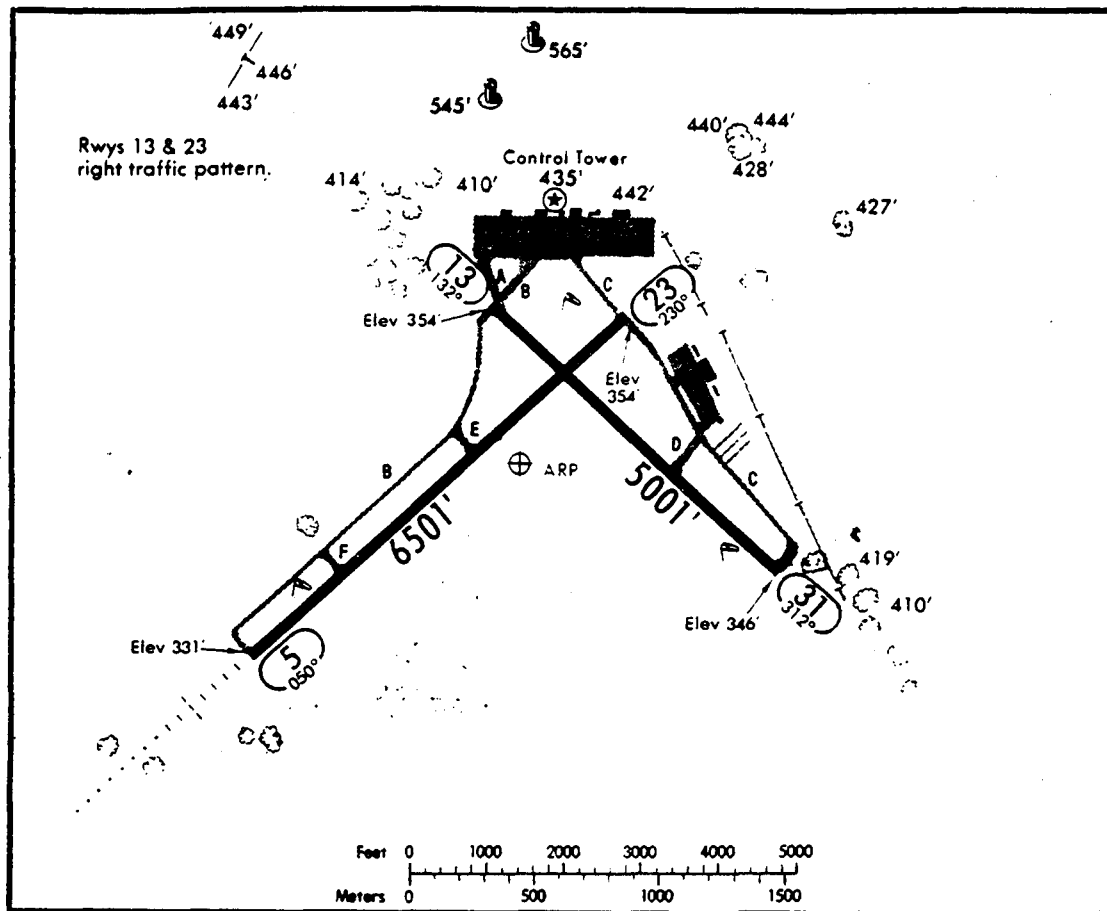
Basic	1
Sensor Packages	—
RLIM	—
Displays	
ATCT	1
TRACON	3
NWS	1
Other	—

Total Displays	5
----------------	---

FY 93	REPLACE	R/W 04
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MACON GA (MCN)

ASO



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EXISTING

NEW GENERATION

05 347AE

MCN TD

System Elements

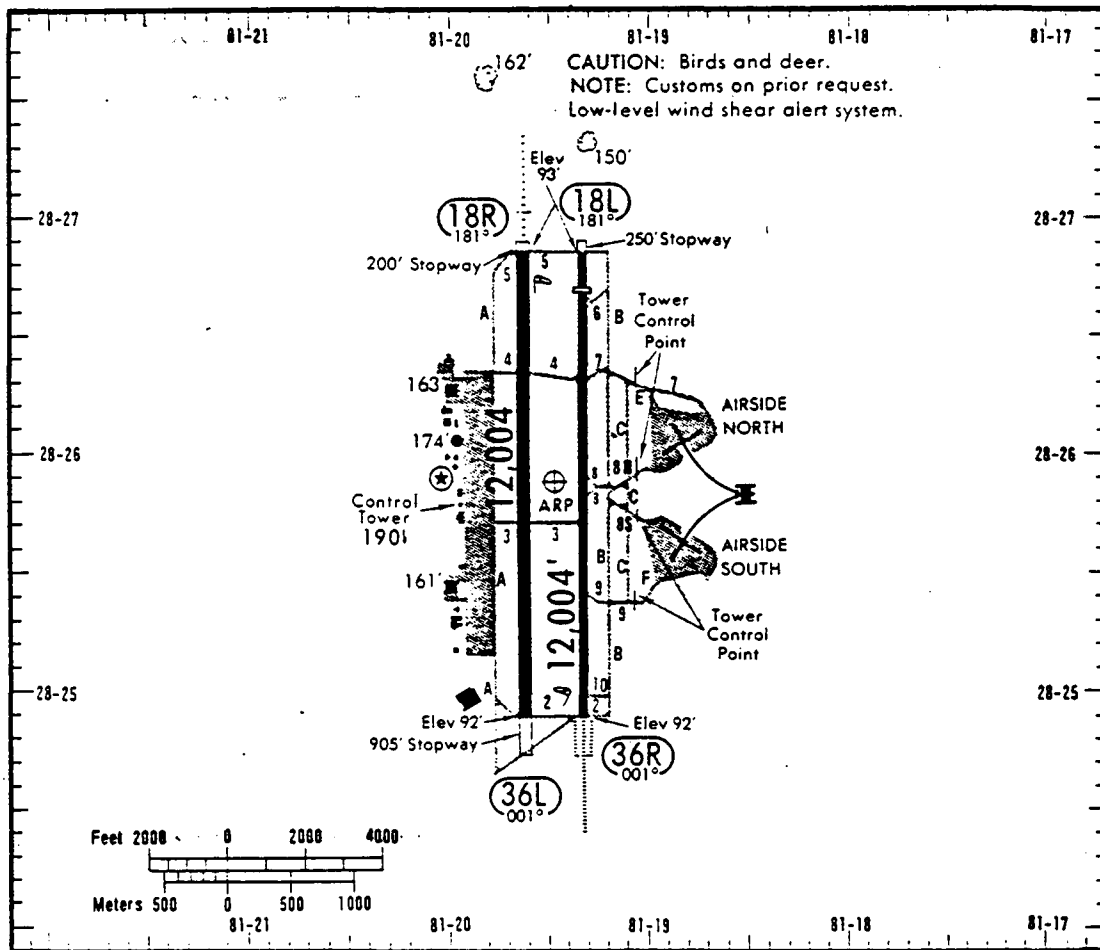
QTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	3
NWS	1
Other	-
Total Displays	5

FY 93	REPLACE	R/W 05
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ORLANDO FL (MCO)

ASO

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36R 347AE

MCOB TD

MCOC MP

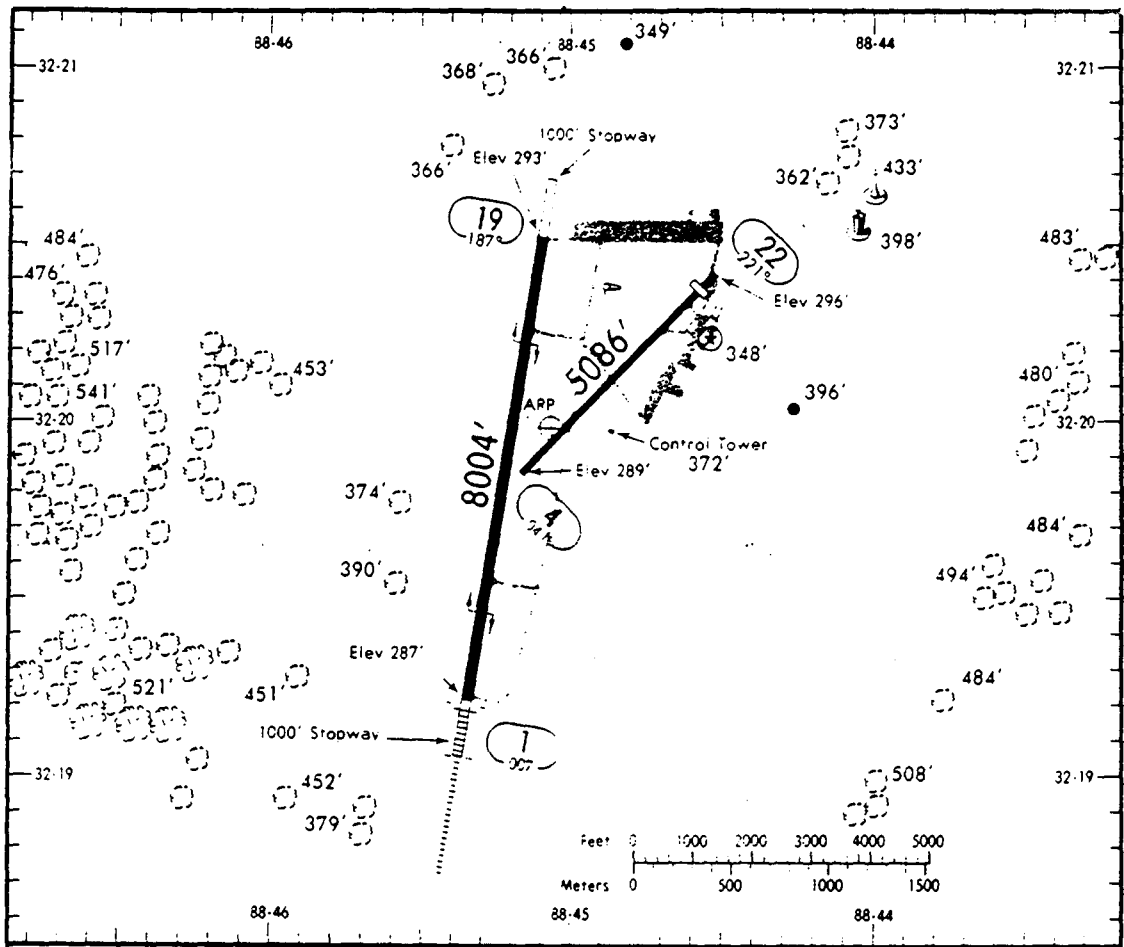
MCOD RO

System Elements	QTY REQ'D
Basic	1
Sensor Packages	2
RLIM	-
Displays	
ATCT	-
TRACON	-
NWS	-
Other	-
Total Displays	0

FY 93	REPLACE	R/W 36R
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MERIDIAN MS (MEI)

ASO



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EXISTING

NEW GENERATION

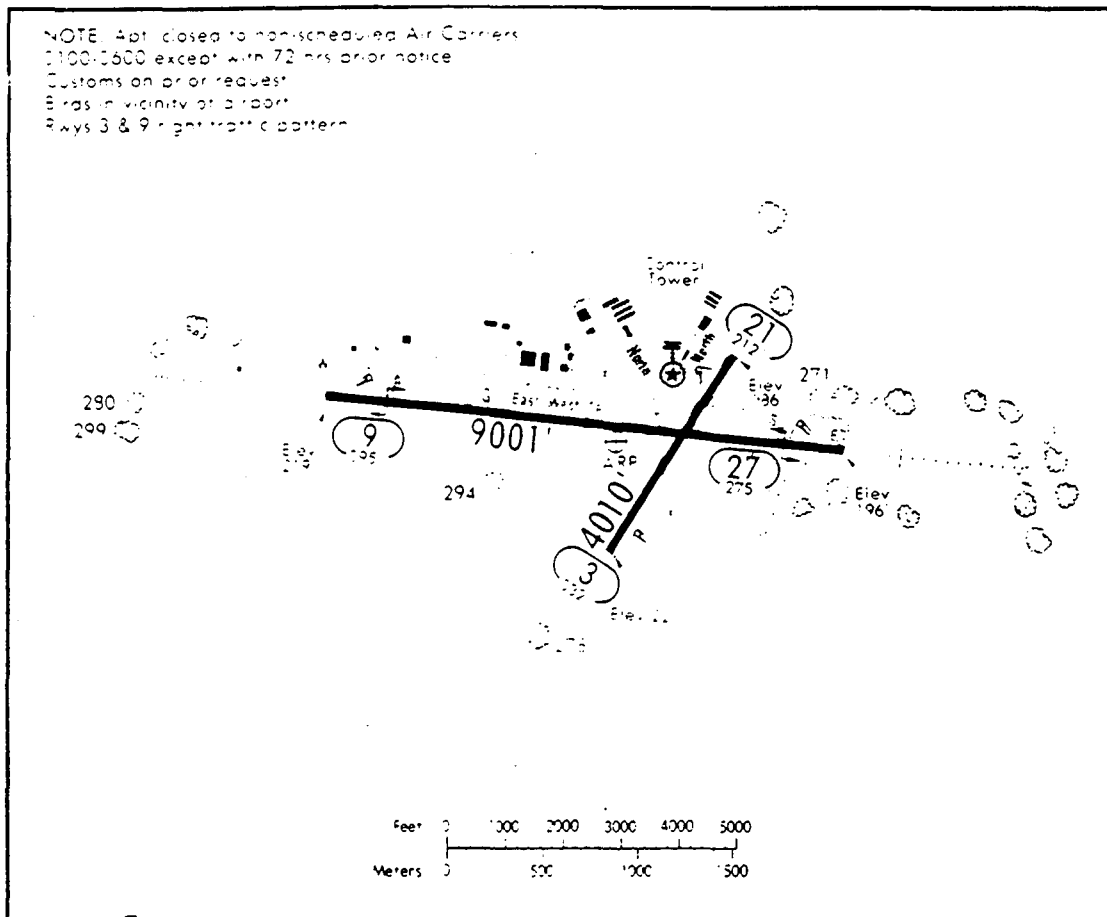
01 347AE
MEI TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	1	
NWS	1	
Other	1	
Total Displays		4

FY 93	REPLACE	R/W 01
-------	---------	--------

MONTGOMERY AL (MGM)

ASO



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EXISTINGNEW GENERATION09 347AA

MGM TD

System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	7
TRACON	2
NWS	1
Other	-

Total Displays	10
----------------	----

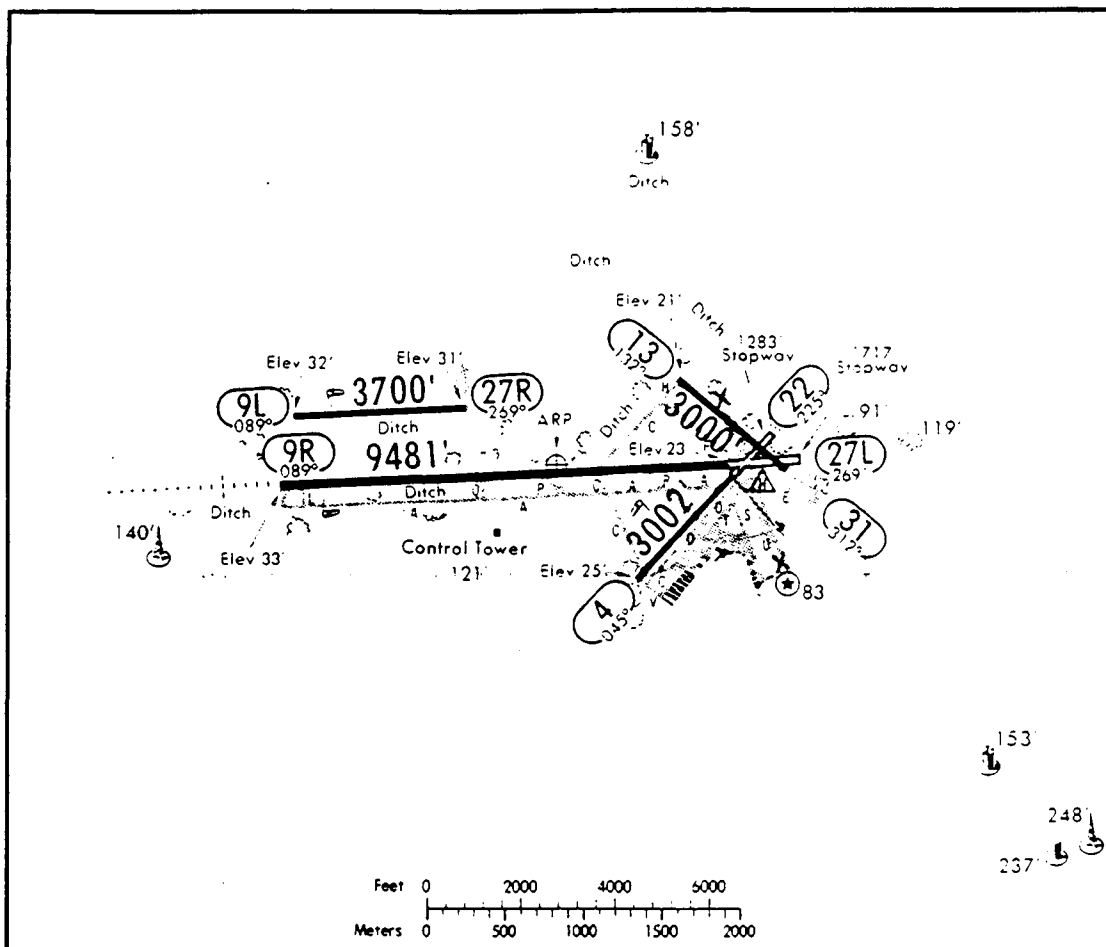
FY 93

REPLACE

R/W 09

MELBOURNE FL (MLB)

ASO



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EXISTING

NEW GENERATION

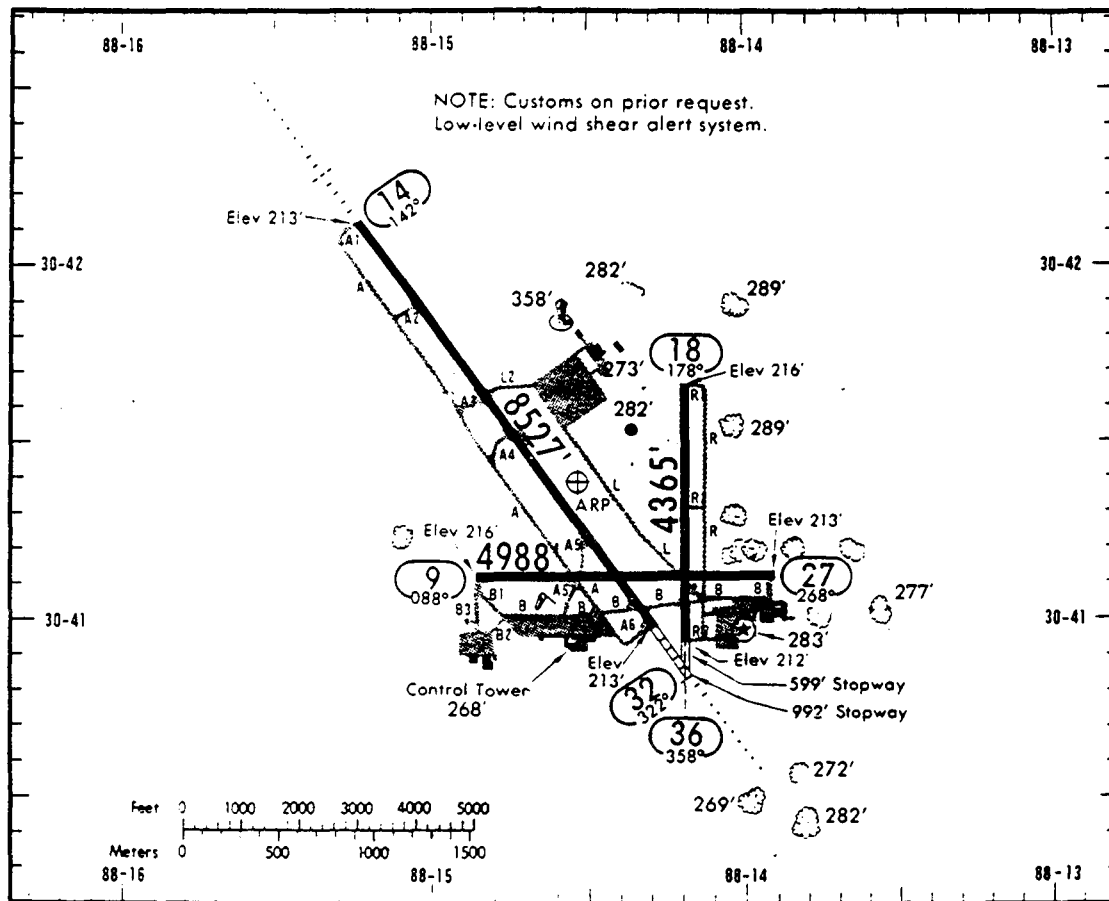
09R 347AE
MLB TD

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	-
NWS	1
Other	1
Total Displays	3

FY 93	REPLACE	R/W 09R
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MOBILE AL (MOB)

ASO



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EXISTING

NEW GENERATION

14 347AE

MSB TD

System Elements

QTY REQ'D

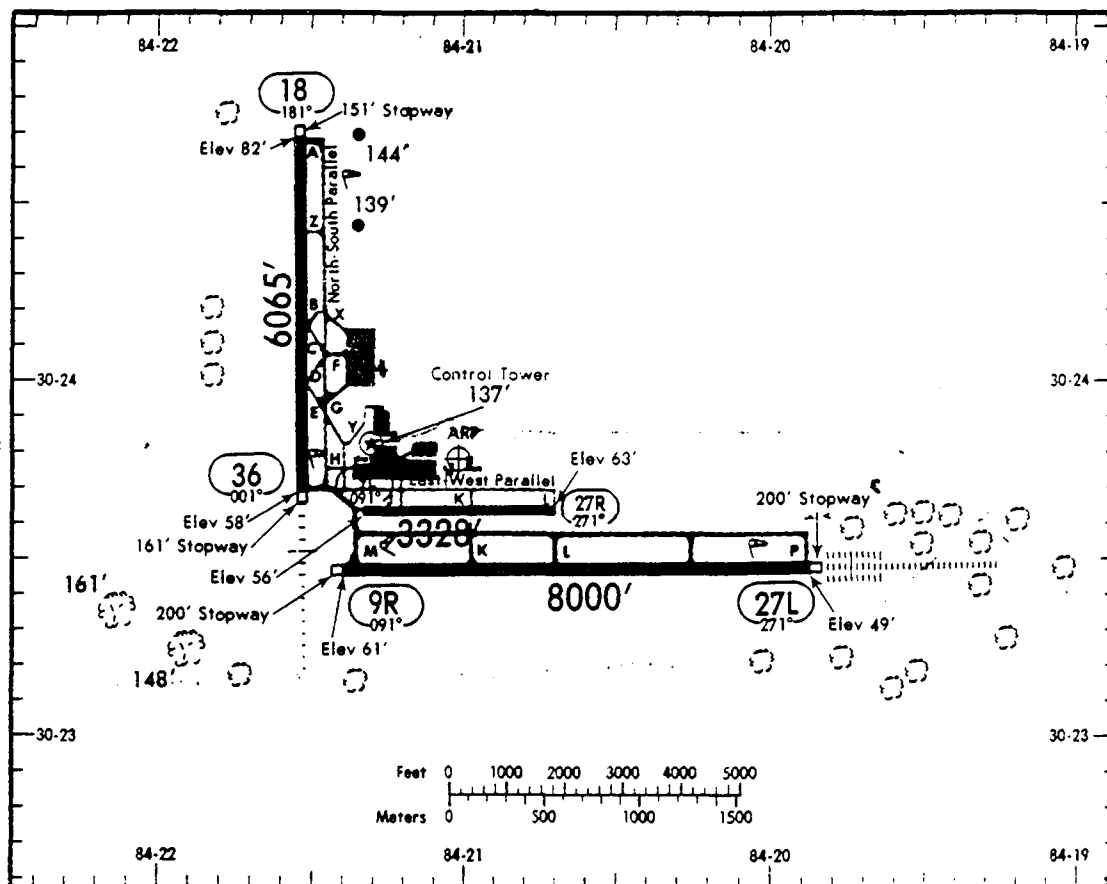
Basic	2
Sensor Packages	1
RLIM	-
Displays	
ATCT	7
TRACON	2
NWS	1
Other	-

Total Displays	10
----------------	----

FY 93	REPLACE	R/W 14
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TALLAHASSEE FL (TLH)

ASO



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ALL RIGHTS RESERVED

EXISTING

NEW GENERATION

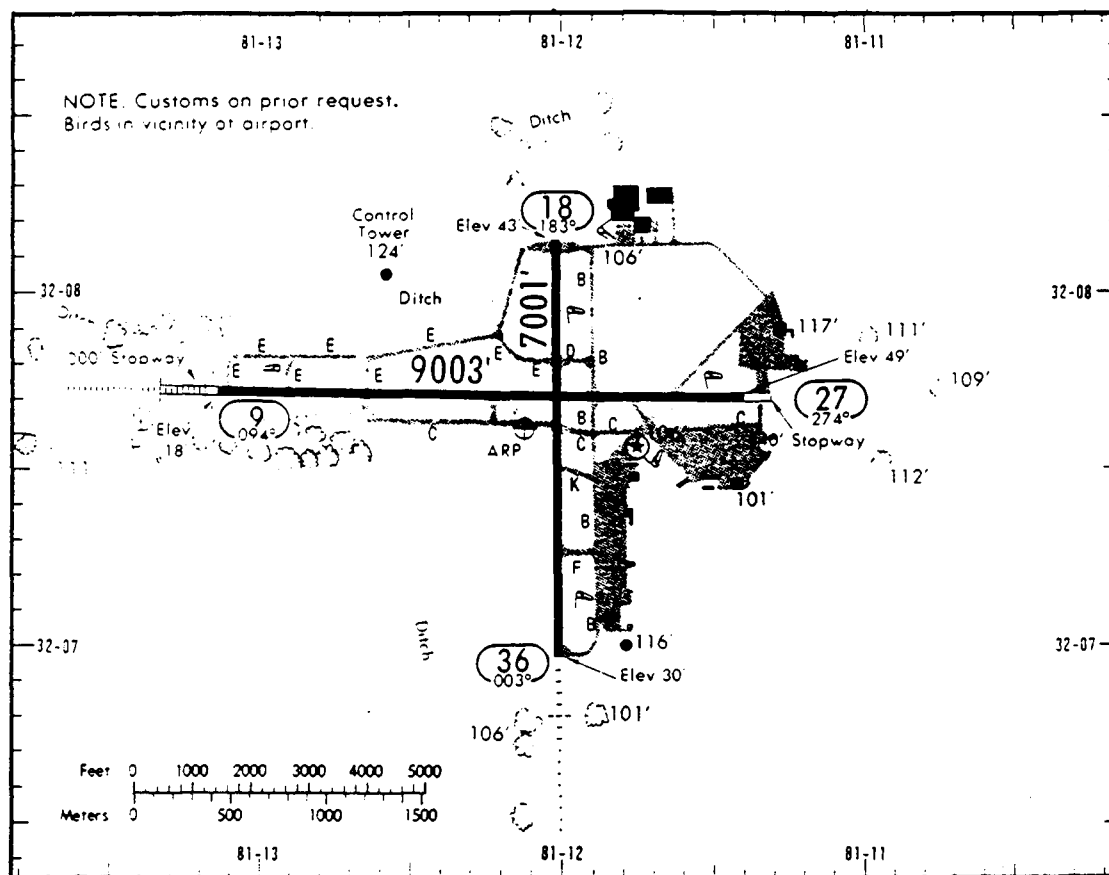
27	<u>347AE</u>
PLQ	TD
PLQA	RO
36	<u>347AE</u>
TLH	TD

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	2
RLIM	1
Displays	
ATCT	1
TRACON	3
NWS	1
Other	-
Total Displays	5

FY 93	REPLACE	R/W 27L, 36
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SAVANNAH GA (SAV)

ASO

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SAV TD

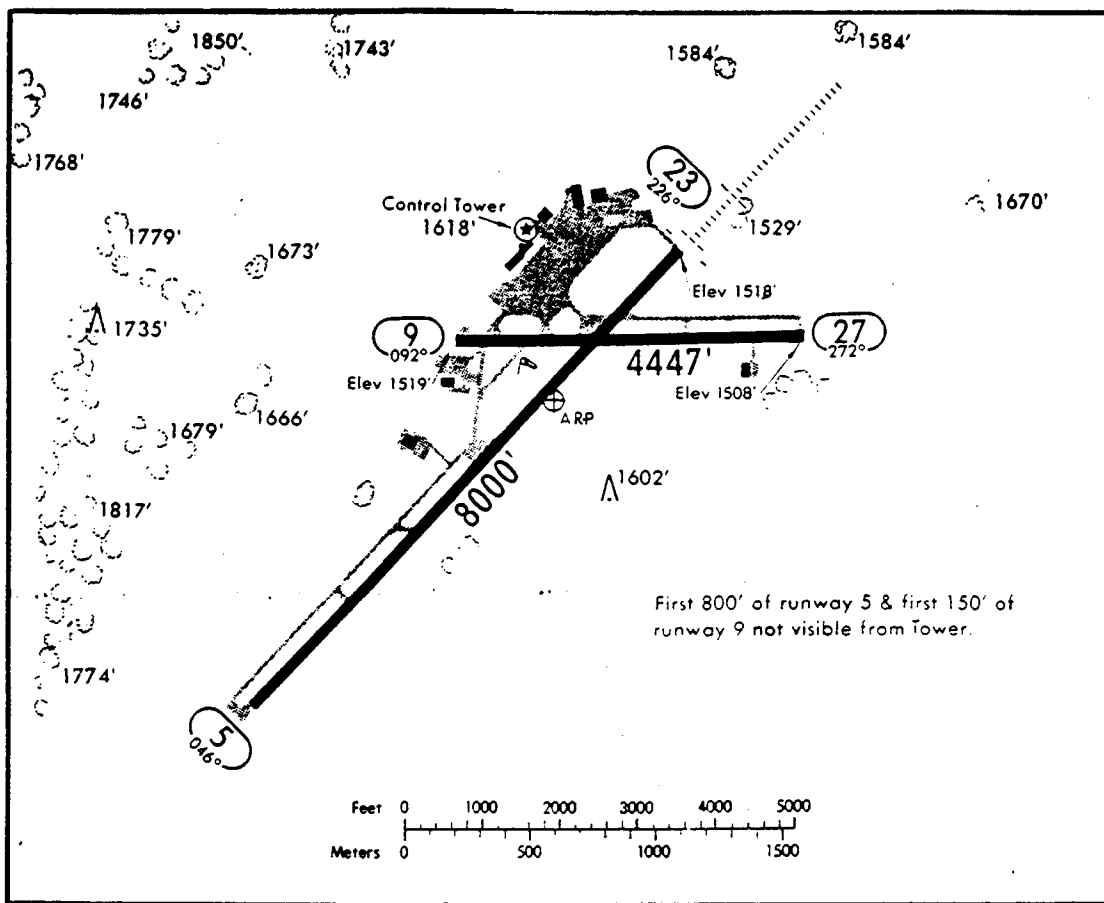
System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	3
NWS	1
Other	-
Total Displays	5

FY 93	REPLACE	R/W 09
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BRISTOL (TRI-CITY) TN (TRI)

ASO



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EXISTING

NEW GENERATION

23 347AE

TRI TD
TRIA RO

System Elements

QTY REQ'D

Basic	1
Sensor Packages	1
RLIM	-
Displays	
ATCT	1
TRACON	2
NWS	1
Other	-

Total Displays 4

FY 93	REPLACE	R/W 23
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APPENDIX 8. ASW SITE LOCATIONS

AIRPORT LOCATION (LOCATION IDENTIFIER)

RESERVED FOR JEPPESEN
AIRPORT LAYOUT

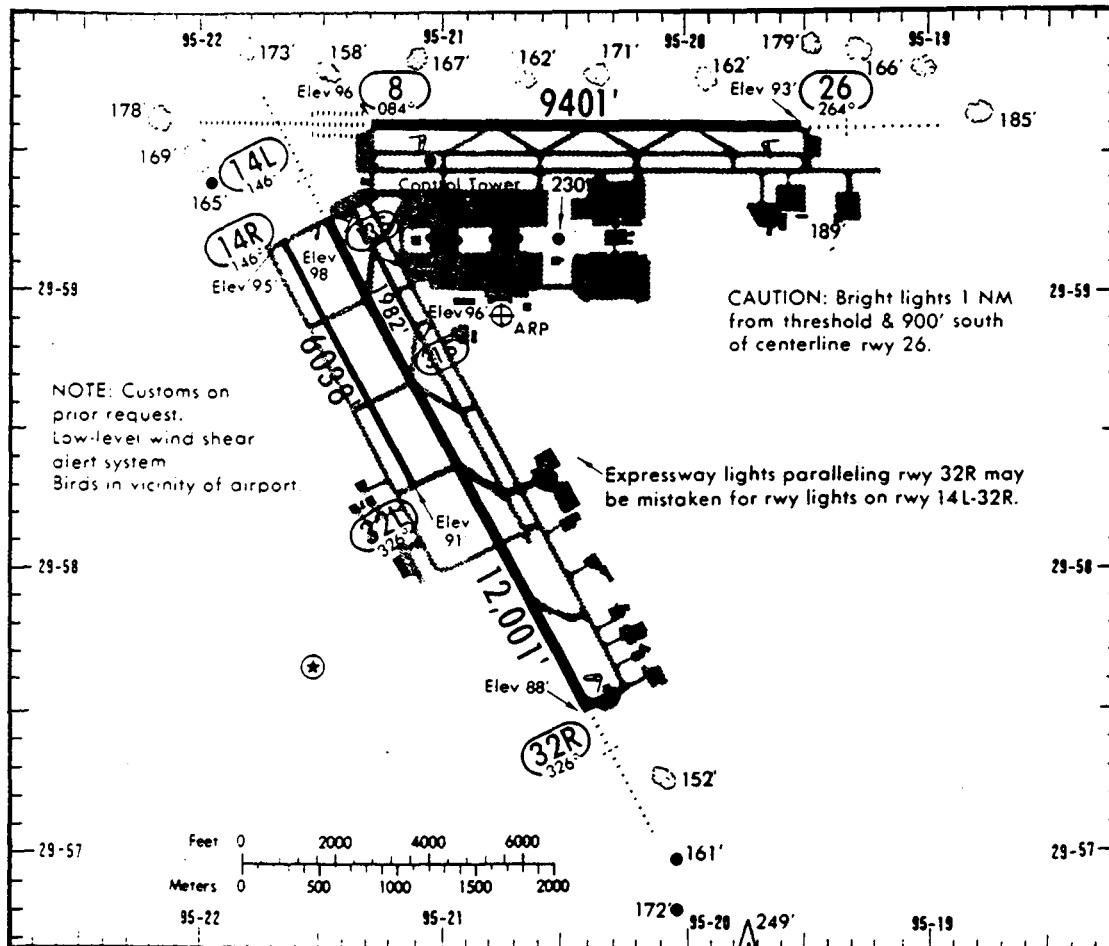
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<u>EXISTING</u>		<u>NEW GENERATION</u>	
Runway - RVR Model No.		Runway Visibility System (1)	1
RVR Location IDENT.	TD, MP, RO (AS APPLICABLE)	Sensor Package (2)	5
		RLIM	1
OTHER RVRs (AS APPLICABLE)		Displays	
		ATCT (a)	
		TRACON (b)	
		NWS (3) (c)	
		Other (d)	
		Total Displays (a + b + c + d)	

- (1) Basic RVR System, Only One per Airport Location
(2) Number of Existing RVR Sensors (minus 1)
(3) Graphic Recorder Quantities

HOUSTON TX (IAH)

ASW

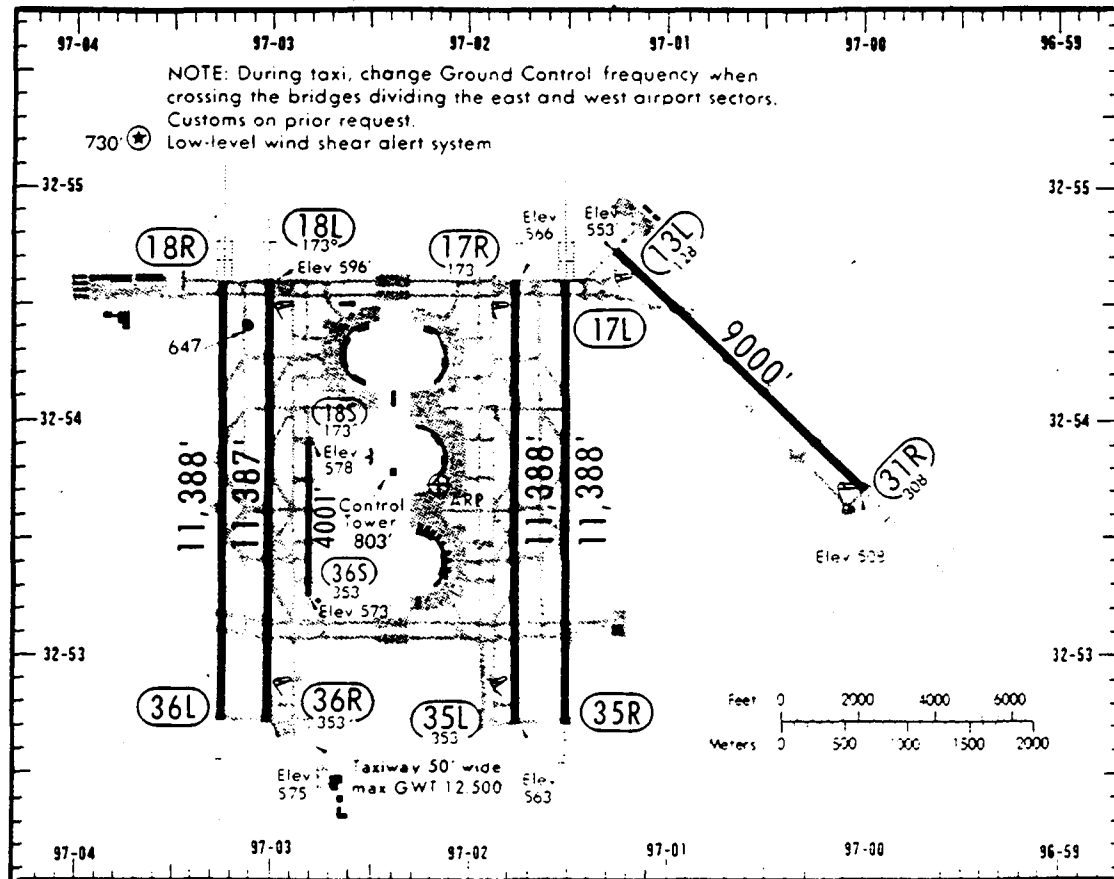
©JEPPESEN SANDERSON, INC., 1986, 1987.
ALL RIGHTS RESERVEDEXISTINGNEW GENERATION

				<u>System Elements</u>	<u>QTY REQ'D</u>
32R	<u>347AE</u>	08	<u>34716</u>		
CDG	TD	1AHB	RO	Basic	1
				Sensor Packages	7
14L	<u>347AE</u>	27	<u>347AE</u>	RLIM	2
				Displays	
HSQ	TD	GHI	TD	ATCT	2
		GHIA	MP	TRACON	7
08	<u>347AE</u>	GHIB	RO	NWS	1
				Other	11
IAH	TD				
IAHA	MP			Total Displays	21

FY 84	CAT IIIB	R/W 08
FY 85	ESTABLISH	R/W 09
FY 85	ESTABLISH	R/W 27

DALLAS/FT. WORTH (DFW)

ASW



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EXISTING

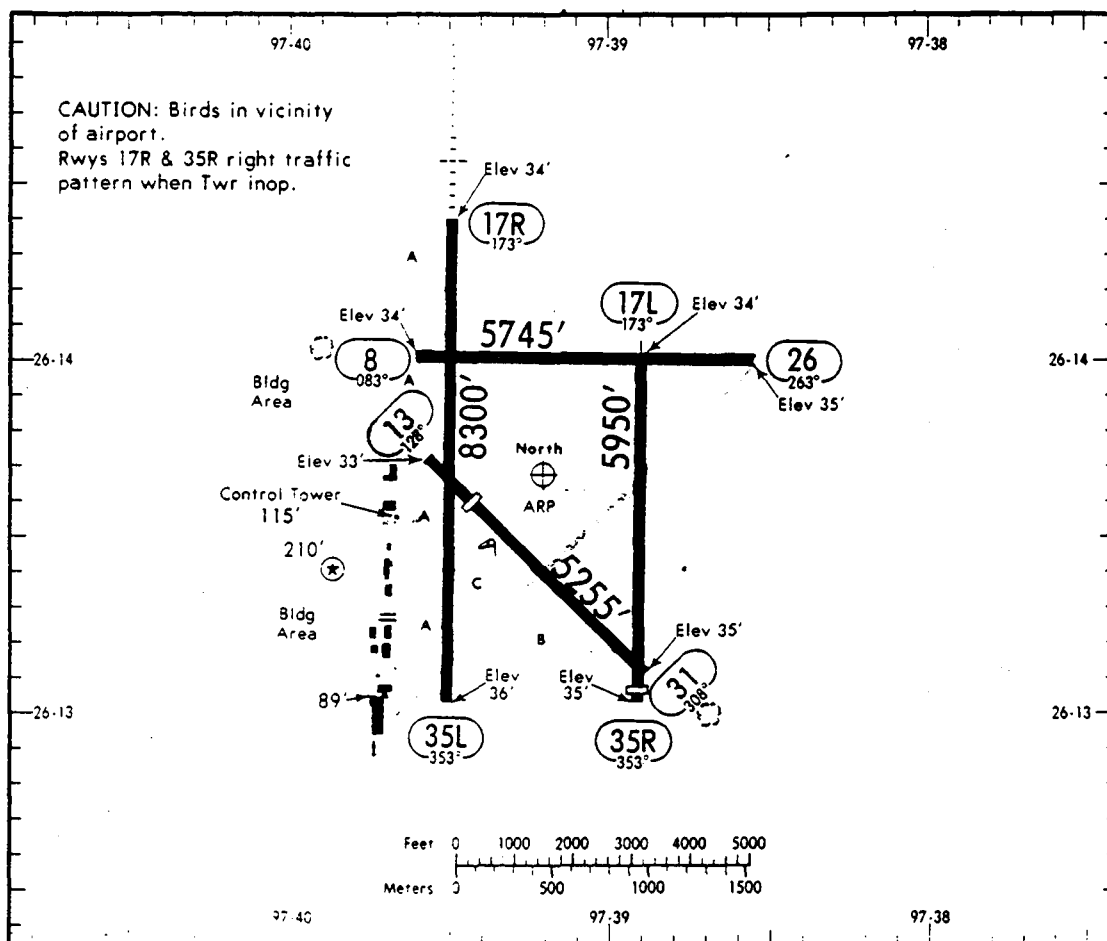
NEW GENERATION

				<u>System Elements</u>	<u>QTY REQ'D</u>
36L	<u>347AD</u>	VYN	TD	Basic	1
RXN	TD	VYNA	MP	Sensor Packages	9
17L	<u>347AD</u>	13R	<u>34715</u>	RLIM	6
		LWN	TD	Displays	
FLO	TD	31L	<u>34715</u>	ATCT	15
FLOA	MP	LWNA	RO	TRACON	10
35R	<u>347AD</u>			NWS	2
				Other	-
PKQ	TD			Total Displays	27
18R	<u>347AD</u>				

FY 85	ESTABLISH	R/W 13R
FY 86	REPLACE	R/W 17L, 18R

HARLINGEN TX (HRL)

ASW



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EXISTING

NONE

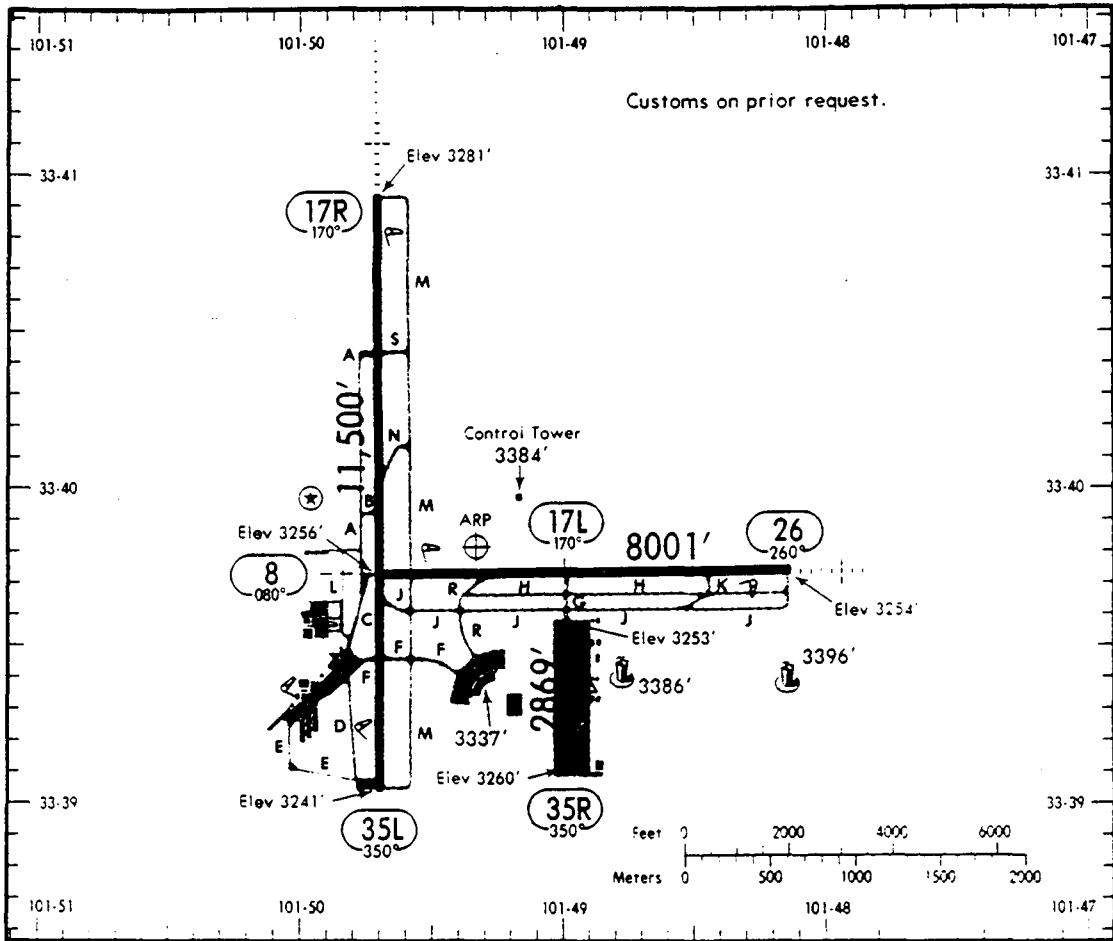
NEW GENERATION

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	-
Other	-
Total Displays	2

FY 84	ESTABLISH	R/W 17R
-------	-----------	---------

LUBBOCK TX (LBB)

ASW



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EXISTING

NEW GENERATION

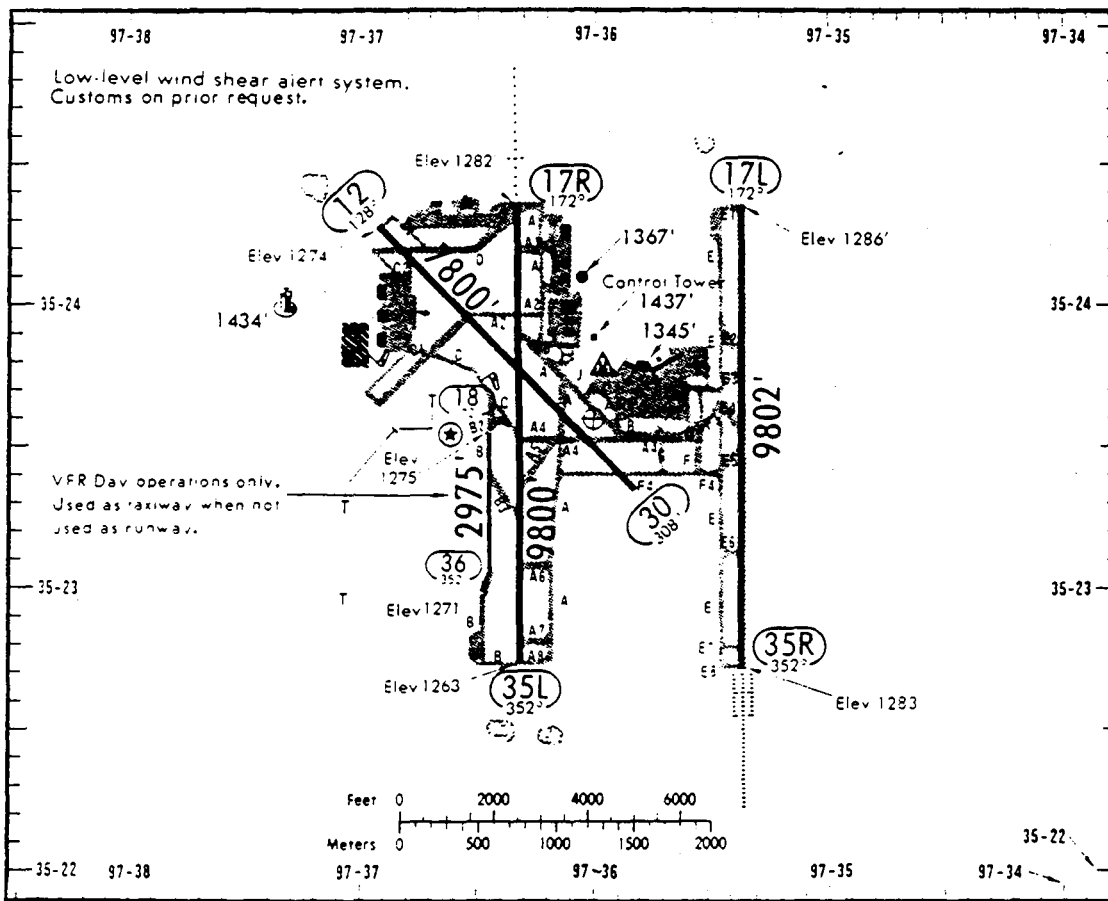
17R 347AC
LBB TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		1
RLIM		1
Displays		
ATCT	1	
TRACON	1	
NWS	1	
Other	-	
Total Displays		3

FY 84	ESTABLISH	R/W 26
-------	-----------	--------

OKLAHOMA CITY OK (OKC)

ASW



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EXISTINGNEW GENERATION35R 347AC

RGR TD
RGRA RO
RGRB MP

System ElementsQTY REQ'D

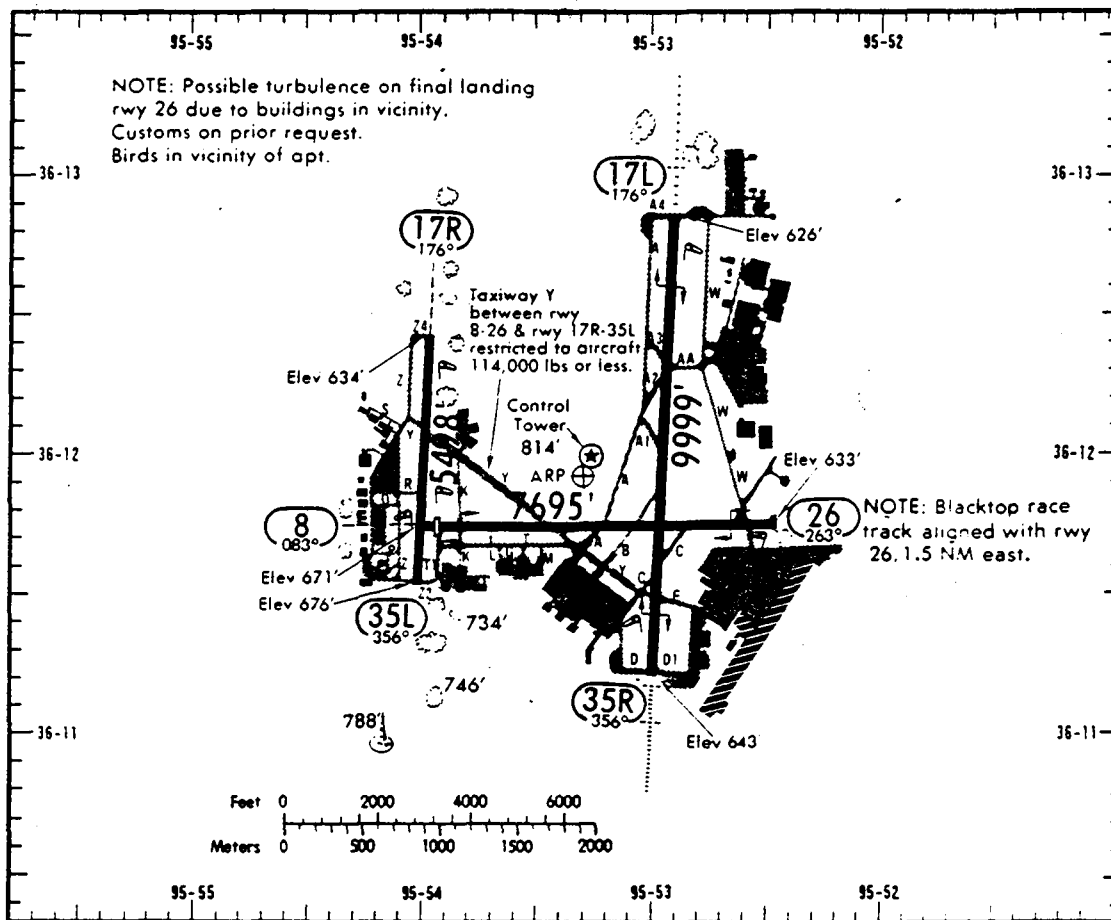
Basic 1
Sensor Packages 3
RLIM 1
Displays
 ATCT 4
 TRACON 4
 NWS 1
 Other -

Total Displays 9

FY 84	ESTABLISH	R/W 17L
FY 86	REPLACE	R/W 35R

TULSA OK (TUL)

ASW



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EXISTING

NEW GENERATION

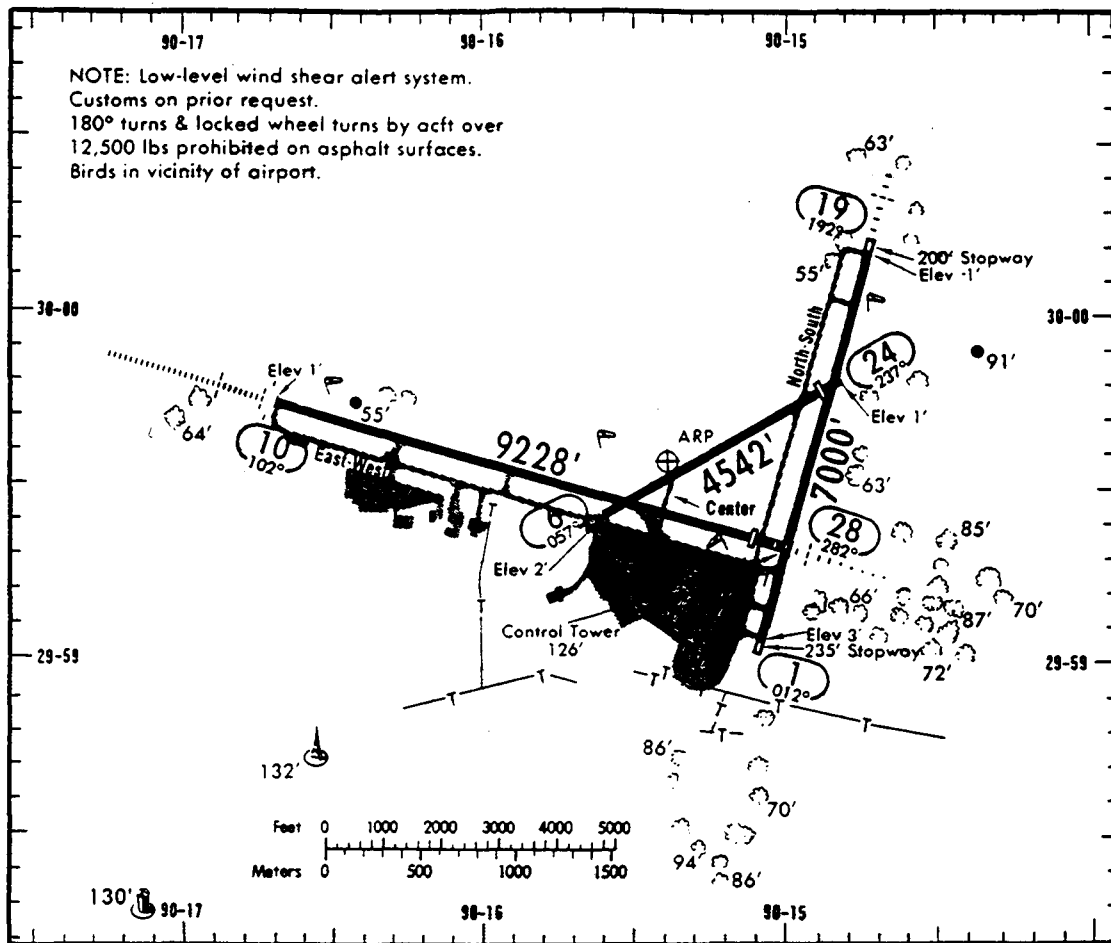
35R	<u>34715</u>
TUL	TD
TULA	RO
TULB	MP

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	2
RLIM	-
Displays	
ATCT	3
TRACON	3
NWS	1
Other	-
Total Displays	7

FY 84	REPLACE	R/W 35R
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NEW ORLEANS (MOISANT) LA (MSY)

ASW



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EXISTINGNEW GENERATION

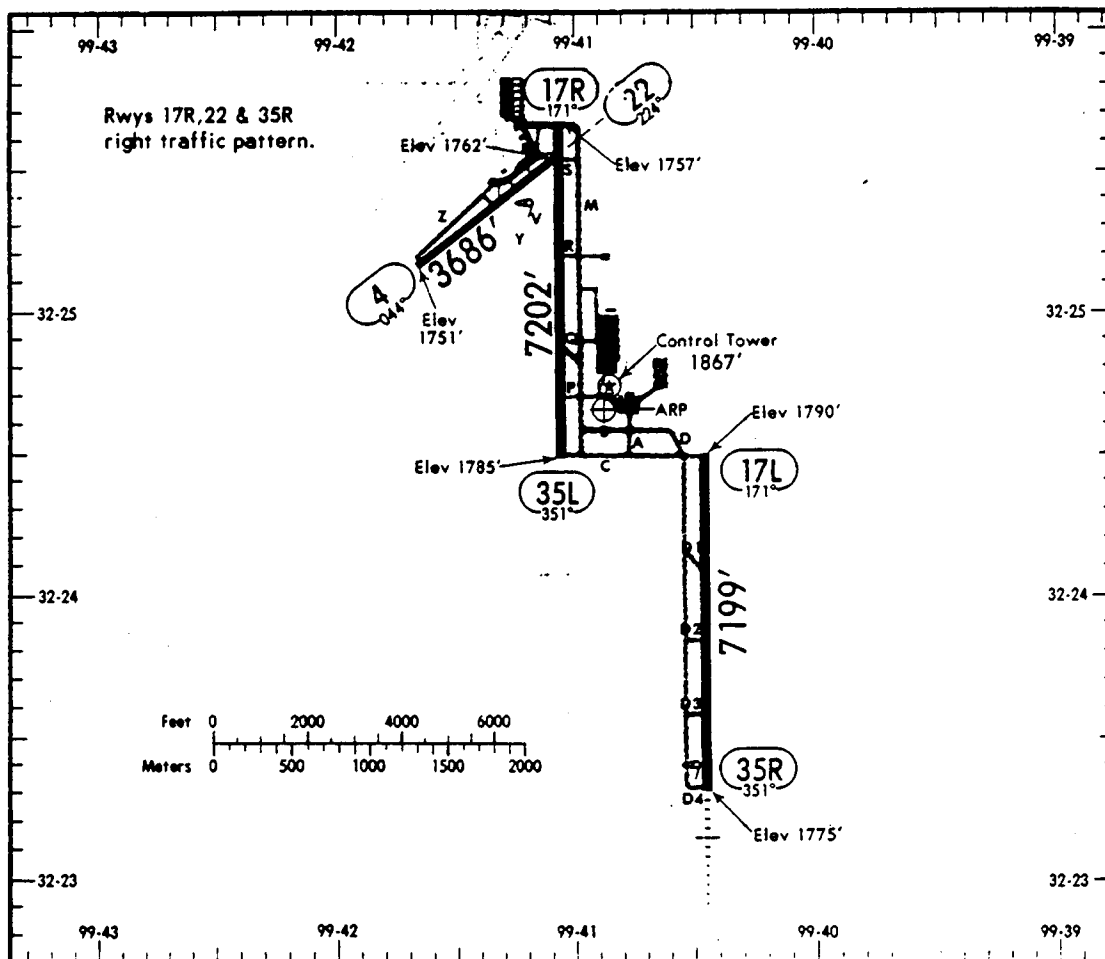
		System Elements	QTY REQ'D
01	<u>347AC</u>	Basic	1
JFIA	RO	Sensor Packages	4
01	<u>347AD</u>	RLIM	1
JFI	TD	Displays	
		ATCT	3
		TRACON	4
		NWS	1
		Other	-
10	<u>347AD</u>	Total Displays	8
MSY	TD		
MSYA	RO		
MSYB	MP		

FY 85	REPLACE	R/W 10
-------	---------	--------

8/10/88

ABILENE TX (ABI)

ASW



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EXISTING

NEW GENERATION

35R 347AG

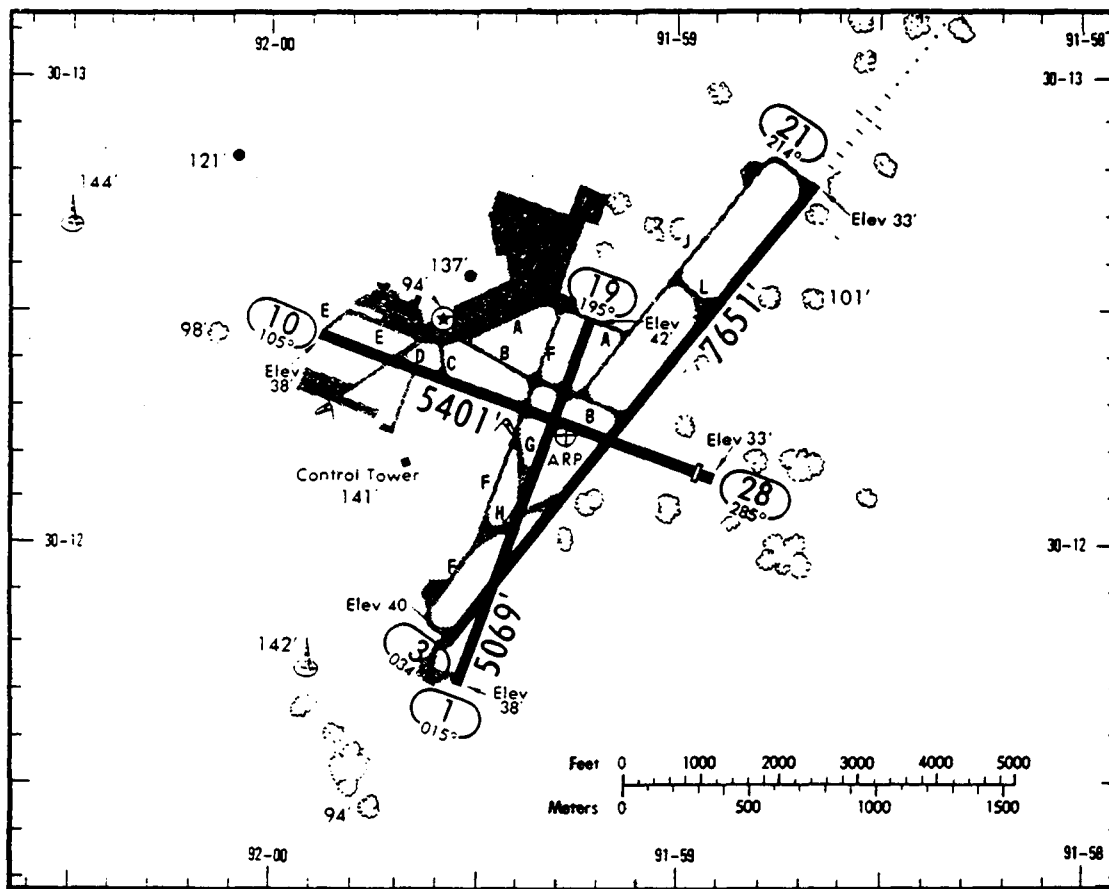
ABI TD

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	-
NWS	1
Other	-
Total Displays	2

FY 85	CONVERT RVV	R/W 35R
-------	-------------	---------

LAFAYETTE LA (LFT)

ACE



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EXISTINGNEW GENERATION21 347AG

LFT TD

System ElementsQTY REQ'D

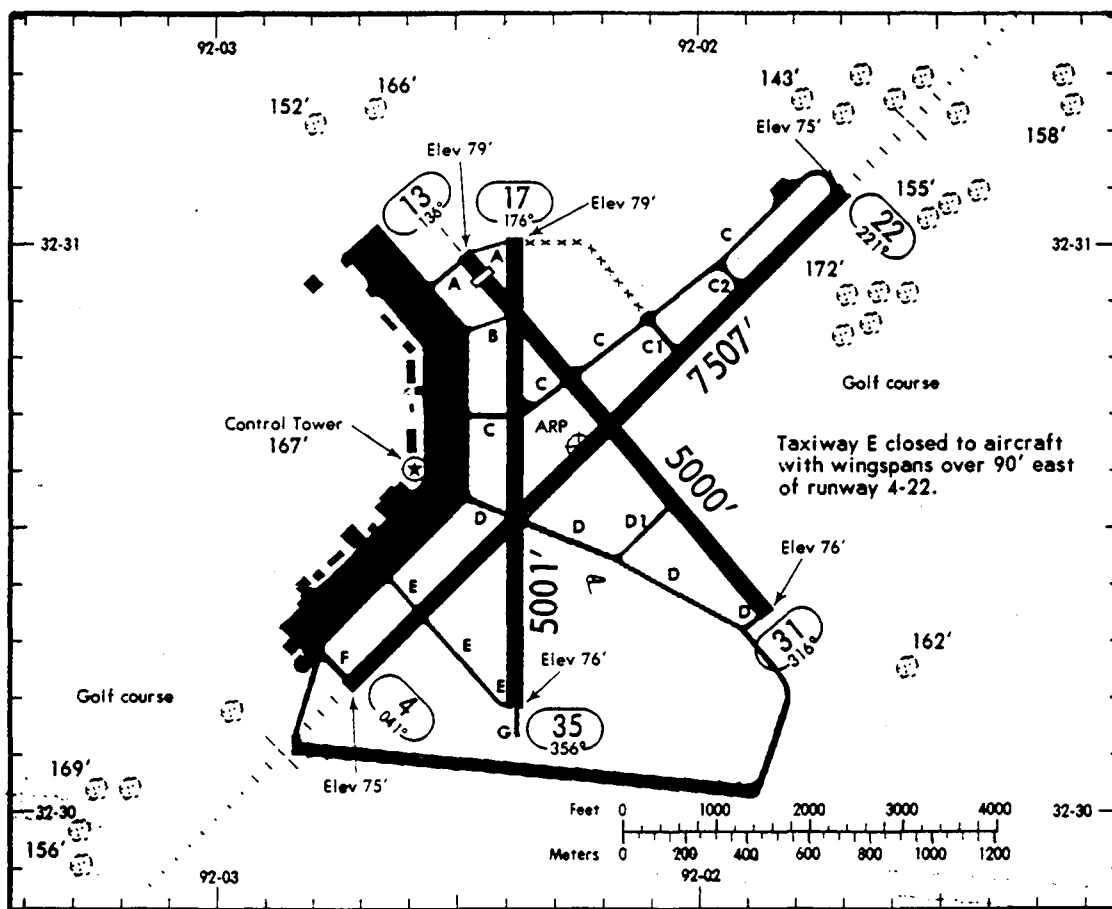
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	1
Other	-

Total Displays	3
----------------	---

FY 85	CONVERT RVV	R/W 21
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MONROE LA (MLU)

ASW



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EXISTING

NEW GENERATION

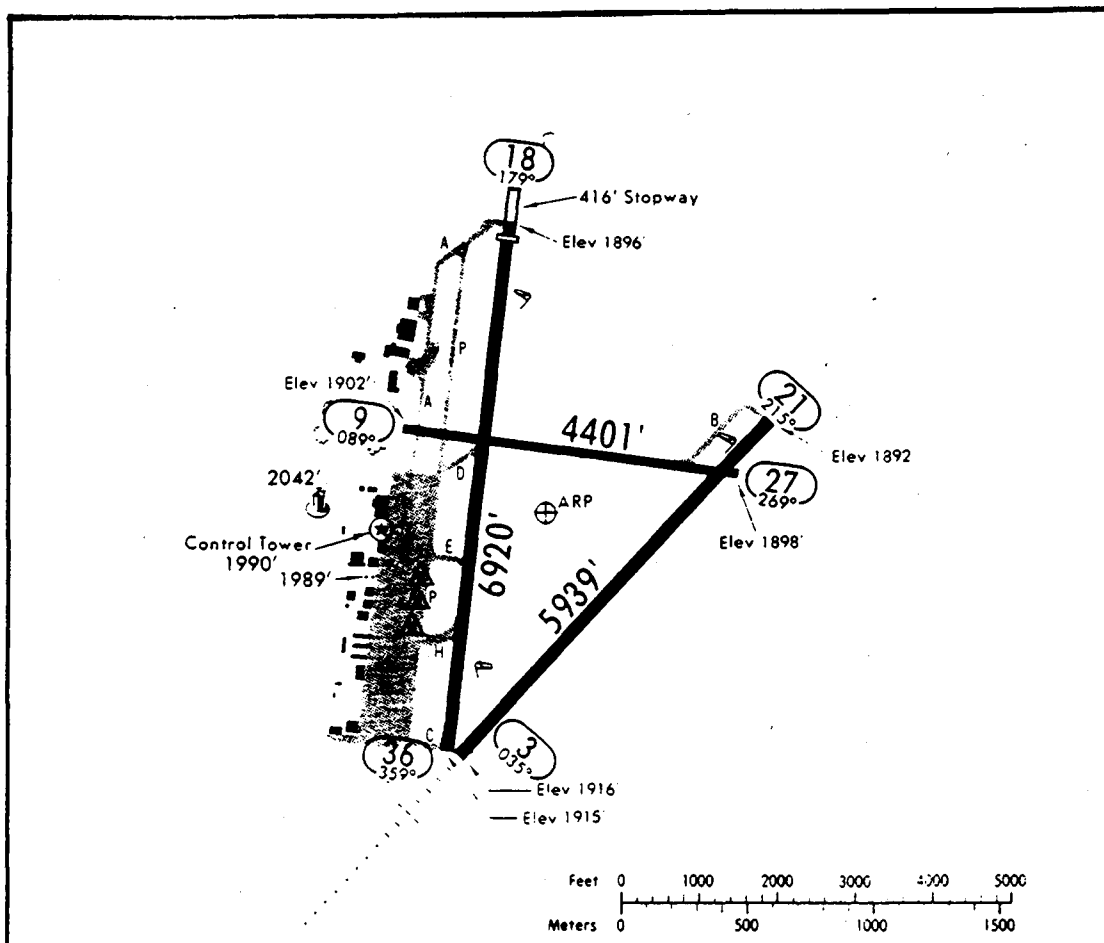
04 34711
MLU TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	-	
NWS	1	
Other	-	
Total Displays		2

FY 85	CONVERT RVV	R/W 04
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SAN ANGELO TX (SJT)

ASW



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EXISTING

NEW GENERATION

03 347AG

SJT	TD
-----	----

System Elements

QTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	-
NWS	1
Other	-

Total Displays 2

FY 85	CONVERT RVV	R/W 03
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ASW



NEW GENERATION

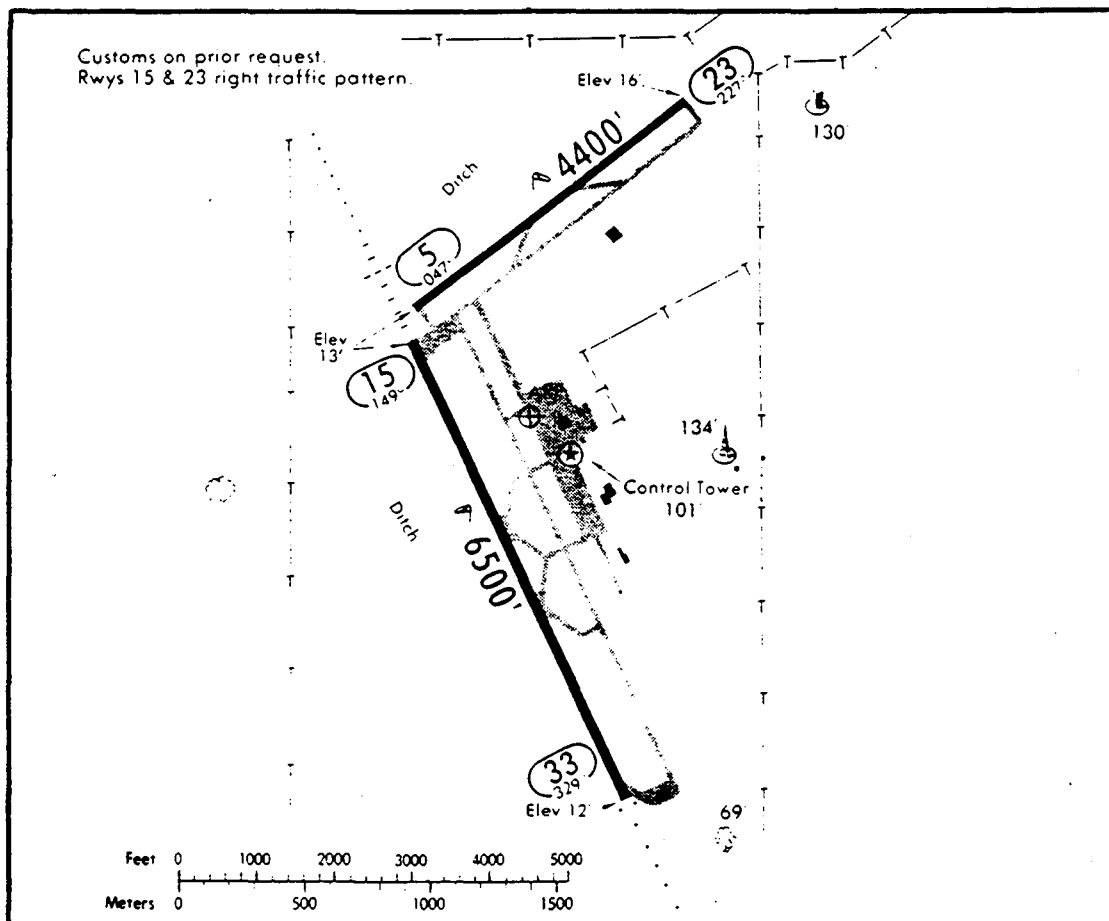
15R	<u>347AG</u>	<u>System Elements</u>	<u>QTY REQ'D</u>
SPSA	TD	Basic	1
		Sensor Packages	1
33L	<u>347AE</u>	RLIM	—
		Displays	
SPS	TD	ATCT	2
		TRACON	3
		NWS	2
		Other	—
		Total Displays	7

FY 85	CONVERT RVV	R/W 33L
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8/10/88

LAKE CHARLES LA (LCH)

ASW



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EXISTING

NEW GENERATION

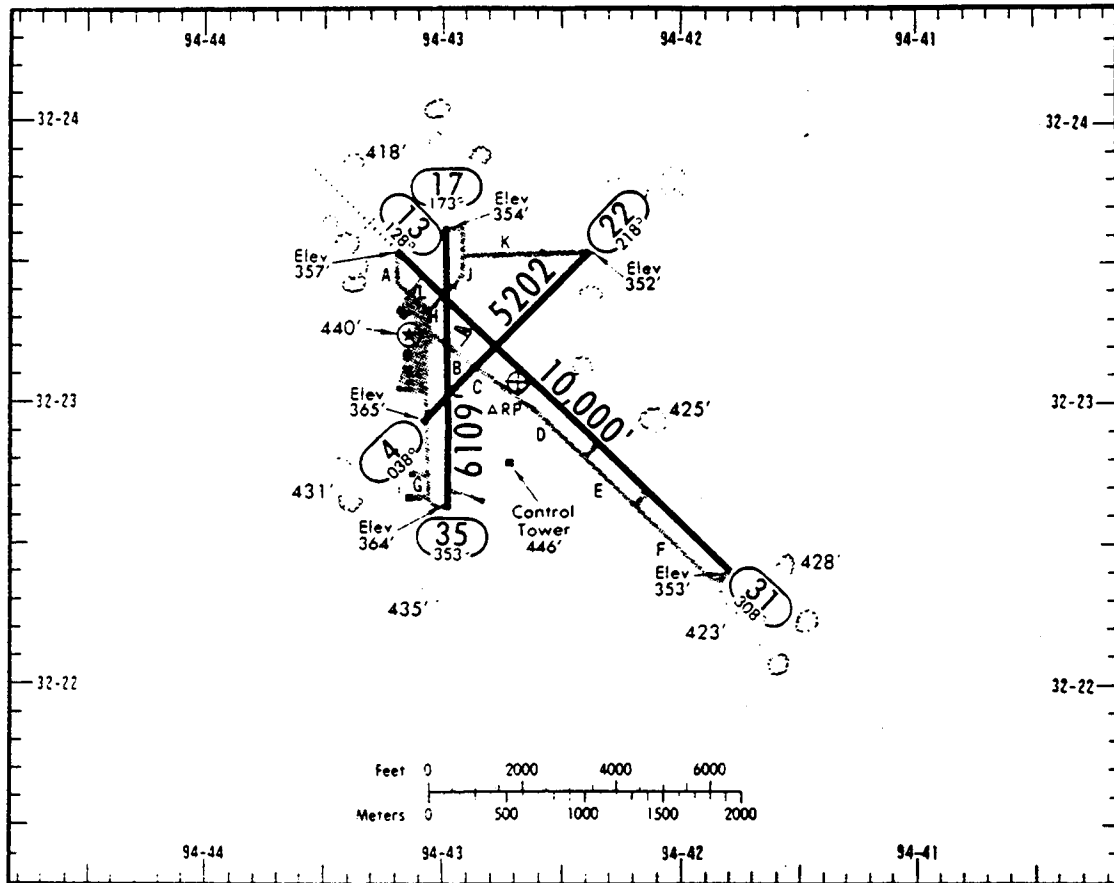
15 347AD
LCH TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	-	
NWS	1	
Other	-	
Total Displays		2

FY 85	CONVERT RVV	R/W 15
FY 86	REPLACE	R/W 15

LONGVIEW TX (GGG)

ASW



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EXISTINGNEW GENERATION13 347AC

GGG TD

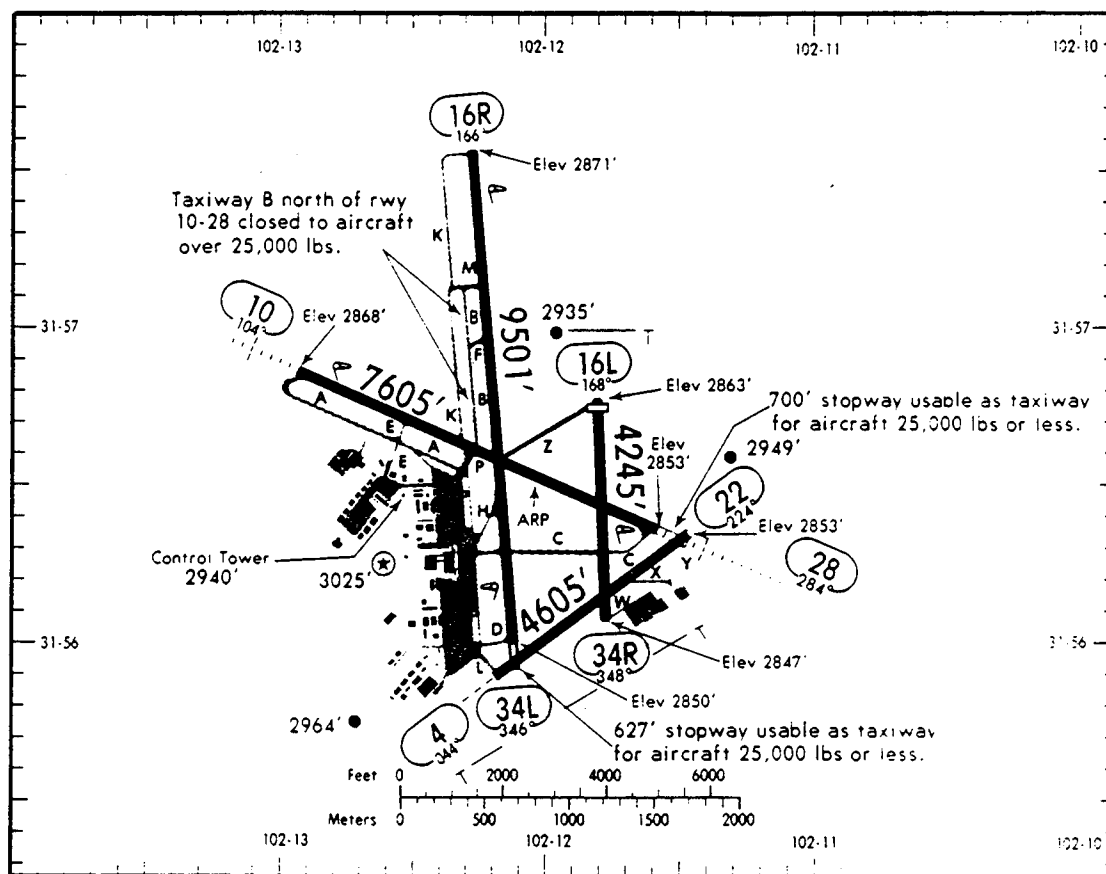
System ElementsQTY REQ'D

Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	-	
NWS	1	
Other	-	
Total Displays		2

FY 86	REPLACE	R/W 13
-------	---------	--------

MIDLAND TX (MAF)

ASW



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EXISTING

NEW GENERATION

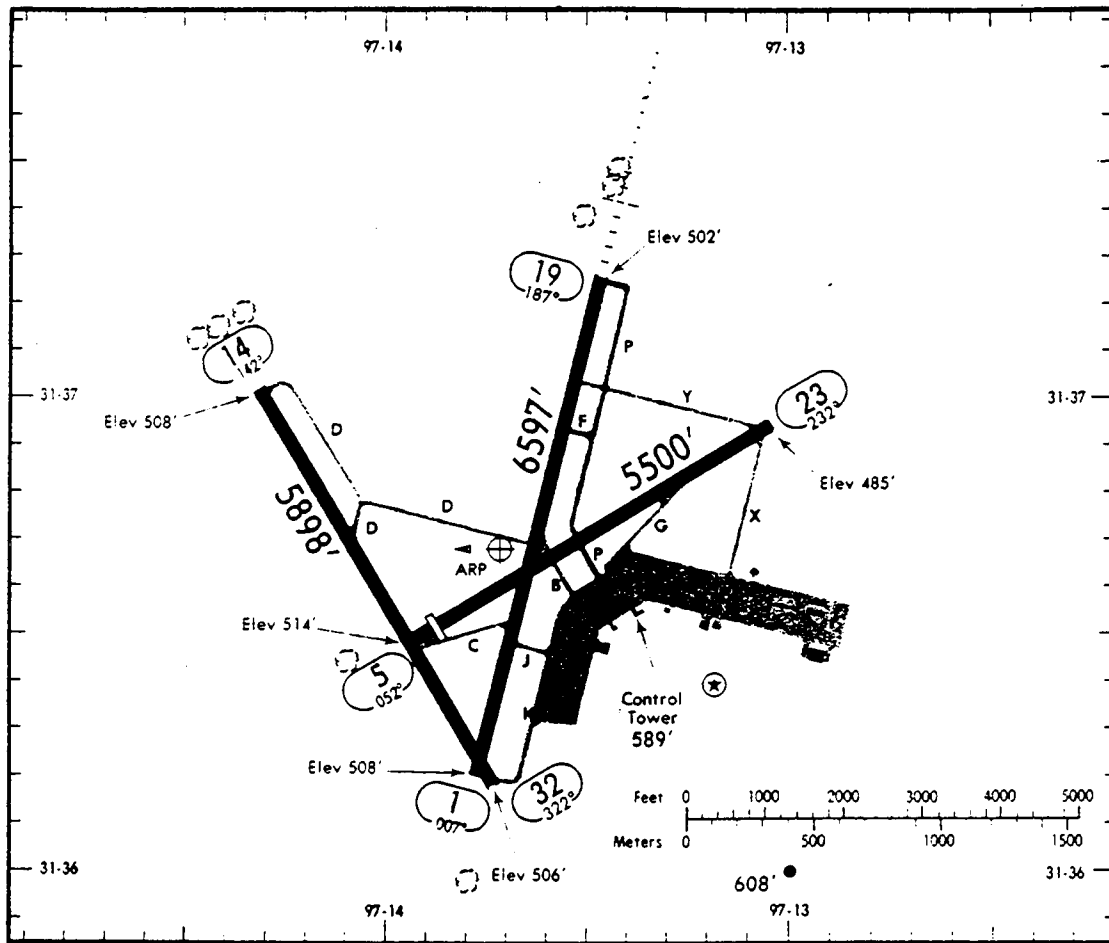
10 347AC
MAF TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	3	
NWS	-	
Other	-	
Total Displays		4

FY 86	REPLACE	R/W 10
-------	---------	--------

WACO TX (ACT)

ASW

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ALL RIGHTS RESERVEDEXISTINGNEW GENERATION19 347AC

ACT TD

System ElementsQTY REQ'D

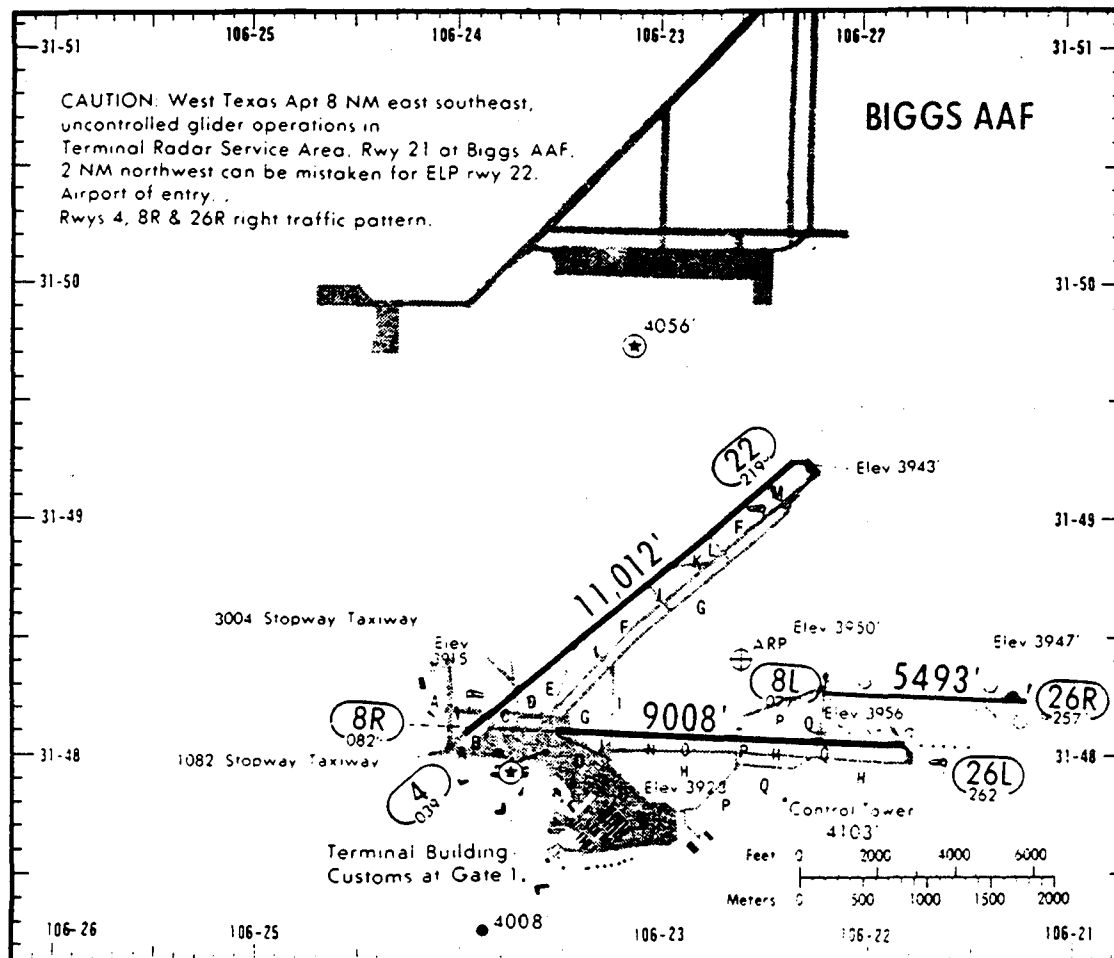
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	2
NWS	1
Other	-

Total Displays	4
----------------	---

FY 86	REPLACE	R/W 19
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EL PASO TX (ELP)

ASW



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EXISTING

NEW GENERATION

22 347AG

ELP TD

System Elements

QTY REQ'D

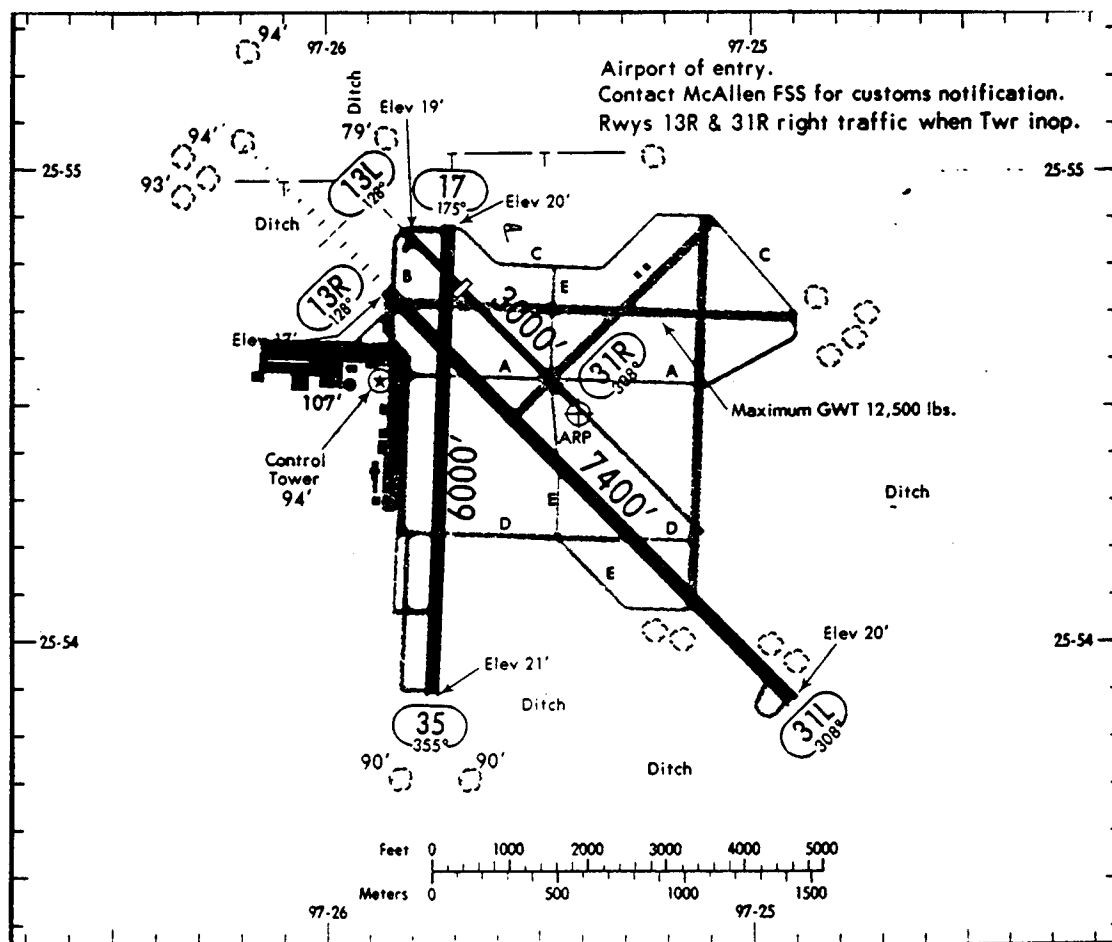
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	1	
NWS	1	
Other	-	

Total Displays 4

FY 86	CONVERT RVV	R/W 22
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BROWNSVILLE TX (BRO)

ASW



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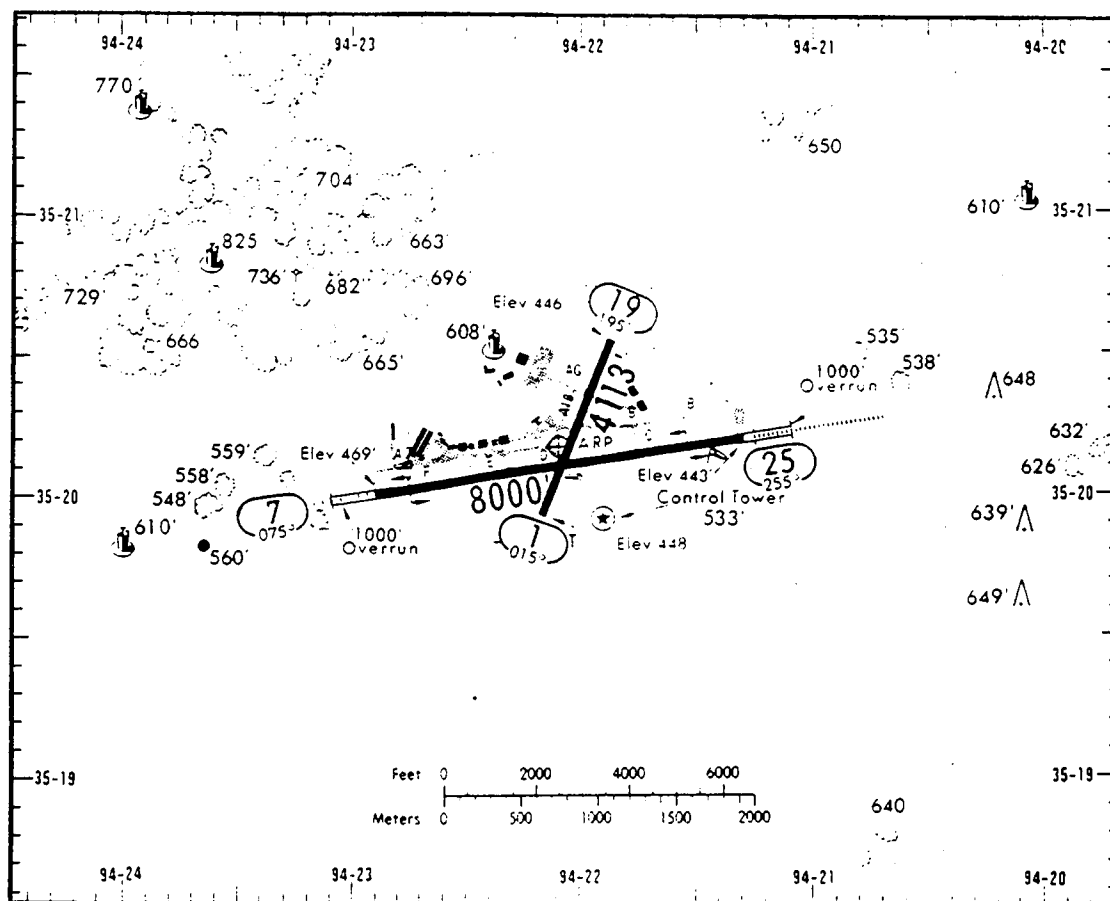
EXISTINGNEW GENERATION

NONE

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	3	
TRACON	-	
NWS	-	
Other	-	
Total Displays		3

FY 88	ESTABLISH	R/W 13R
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ASW



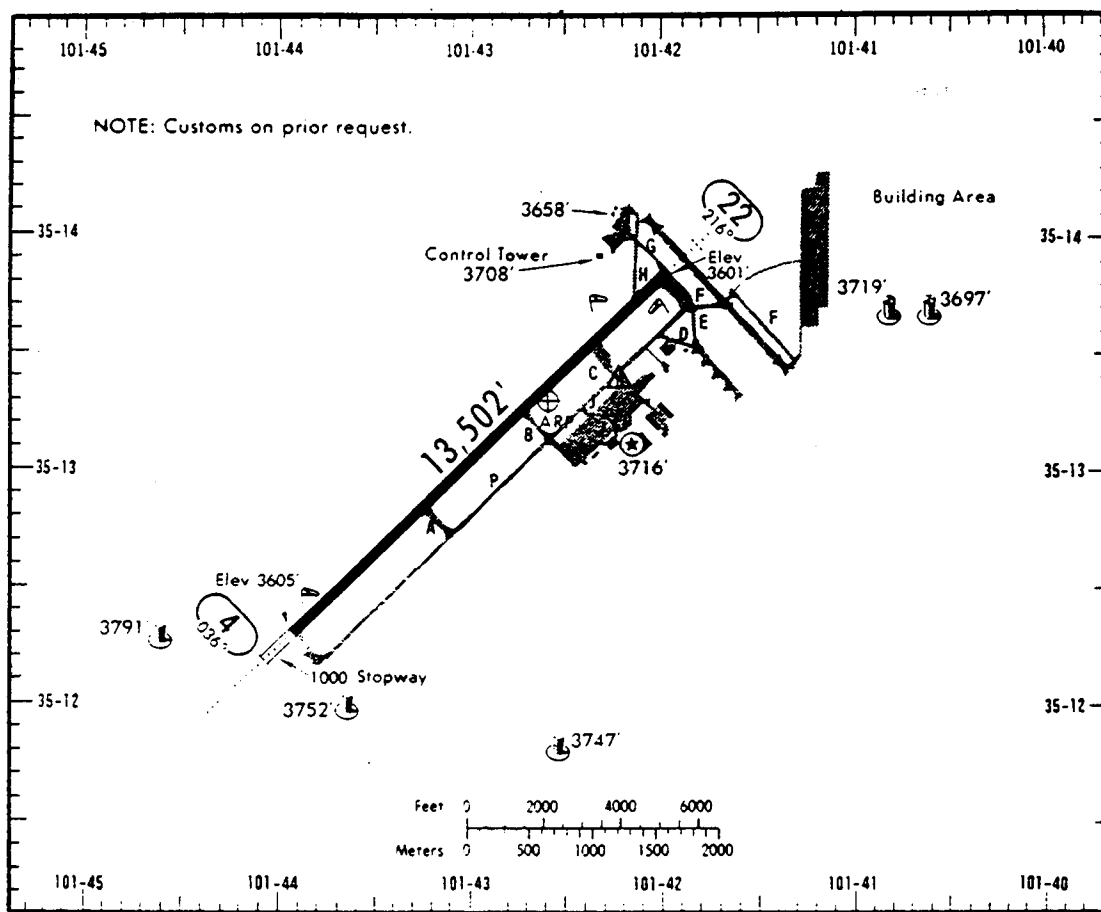
NEW GENERATION

25	<u>34711</u>	<u>System Elements</u>	<u>QTY REQ'D</u>
FSM	TD	Basic	2
		Sensor Packages	-
		RLIM	-
		Displays	
		ATCT	5
		TRACON	-
		NWS	1
		Other	-
		Total Displays	6

FY 88	ESTABLISH (CONVERT RVV)	R/W 25
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AMARILLO TX (AMA)

ASW

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ALL RIGHTS RESERVEDEXISTINGNEW GENERATION04 347AE

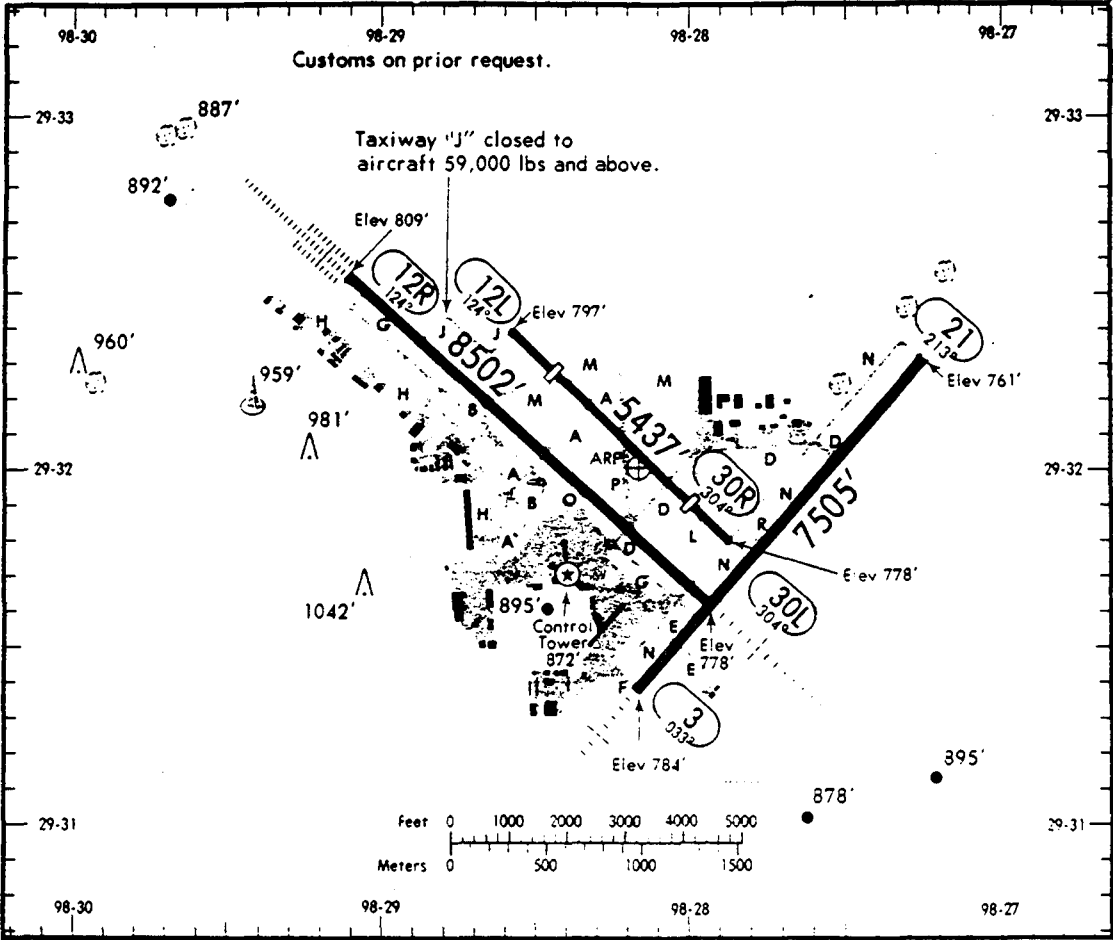
AMA TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	2	
NWS	1	
Other	-	
Total Displays		5

FY 93	REPLACE	R/W 04
-------	---------	--------

SAN ANTONIO TX (SAT)

ASW



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EXISTING

NEW GENERATION

12R 347AE

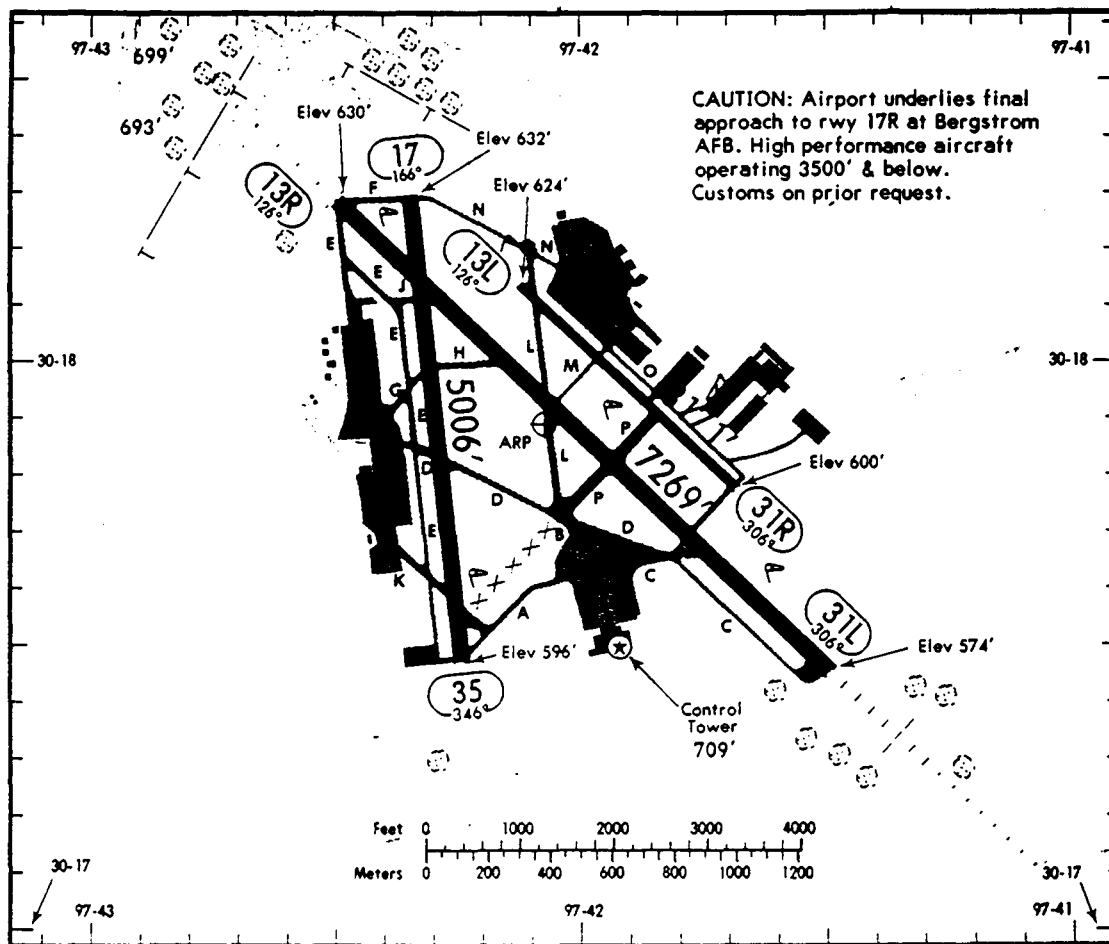
ANT TD
ANTA RO
ANTB MP

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		2
RLIM		-
Displays		
ATCT	2	
TRACON	3	
NWS	2	
Other	-	
Total Displays		7

FY 93	REPLACE	R/W 12R
-------	---------	---------

AUSTIN TX (AUS)

ASW



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EXISTINGNEW GENERATION31L 347AE

AUS TD

System ElementsQTY REQ'D

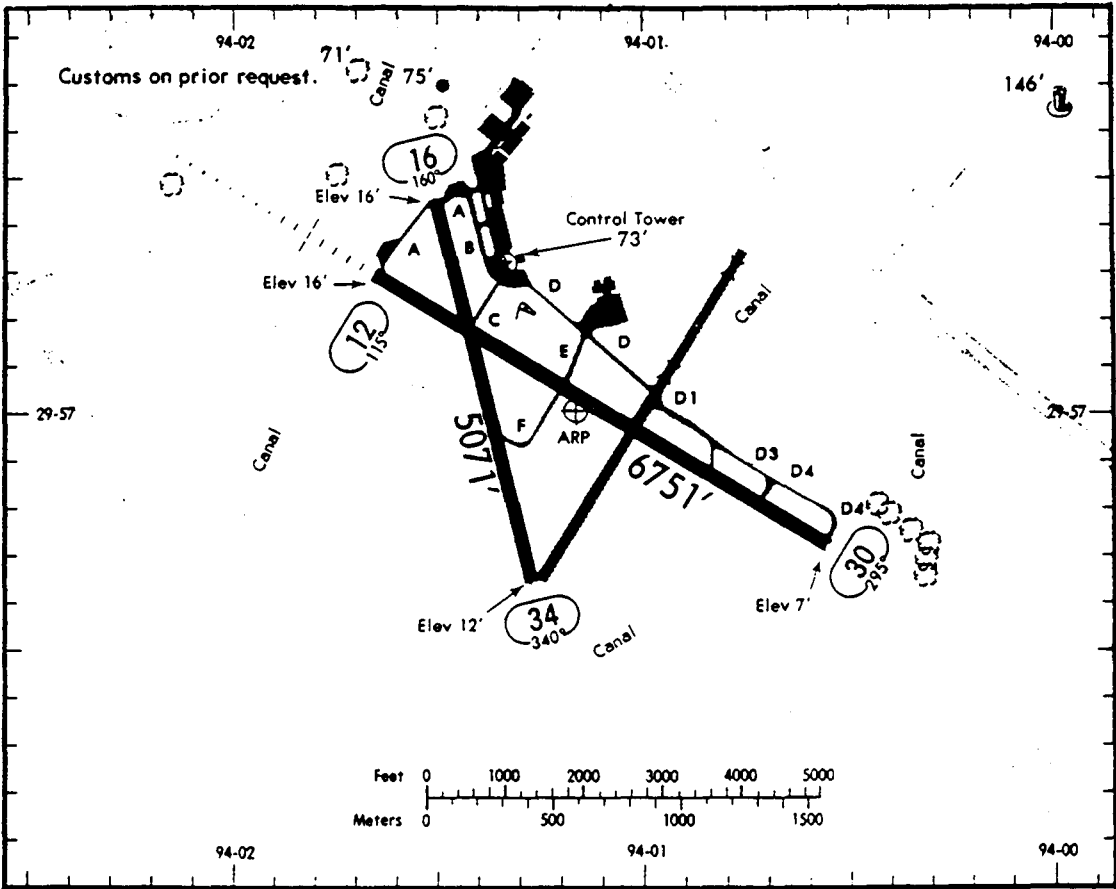
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	2
NWS	1
Other	-

Total Displays	5
----------------	---

FY 93	REPLACE	R/W 13R
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BEAUMONT TX (BPT)

ASW



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EXISTING

NEW GENERATION

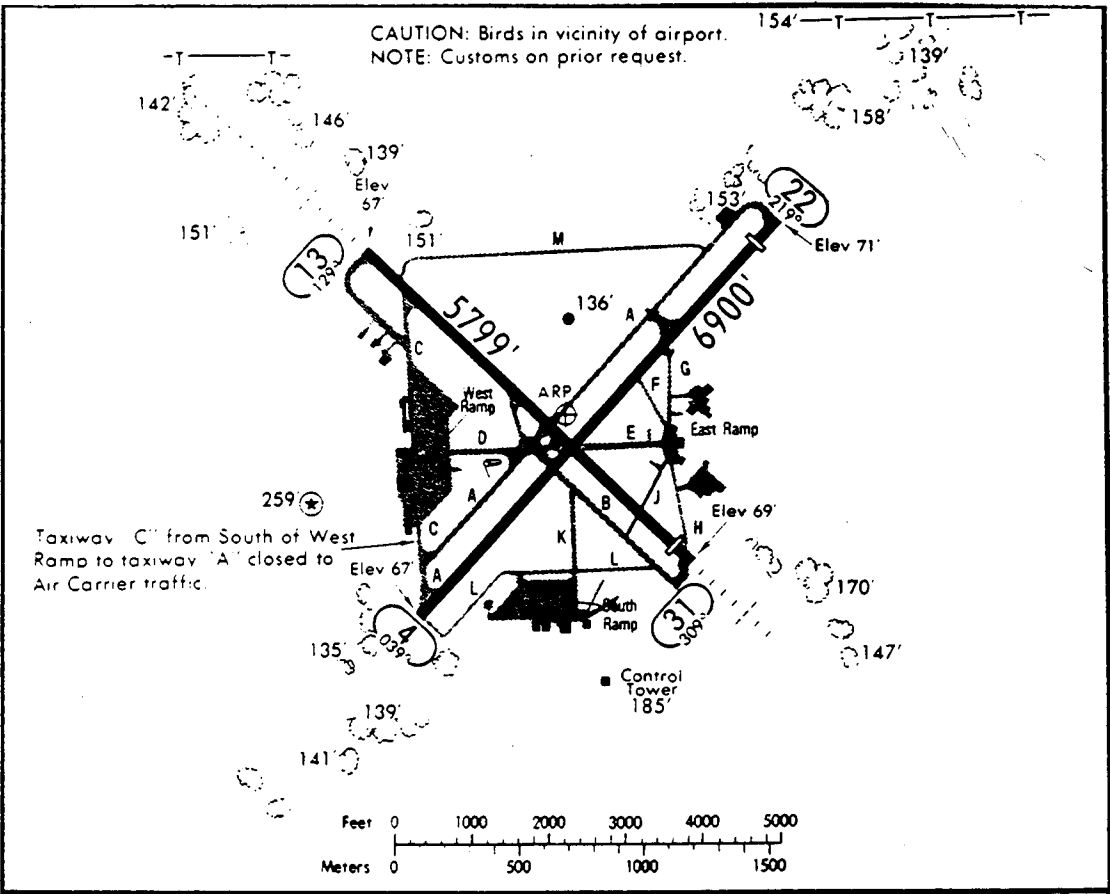
12 347AE
BPT TD

System Elements		QTY REQ'D
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	1	
NWS	1	
Other	-	
Total Displays		3

FY 93	REPLACE	R/W 12
-------	---------	--------

BATON ROUGE LA (BTR)

ASW



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EXISTING

NEW GENERATION

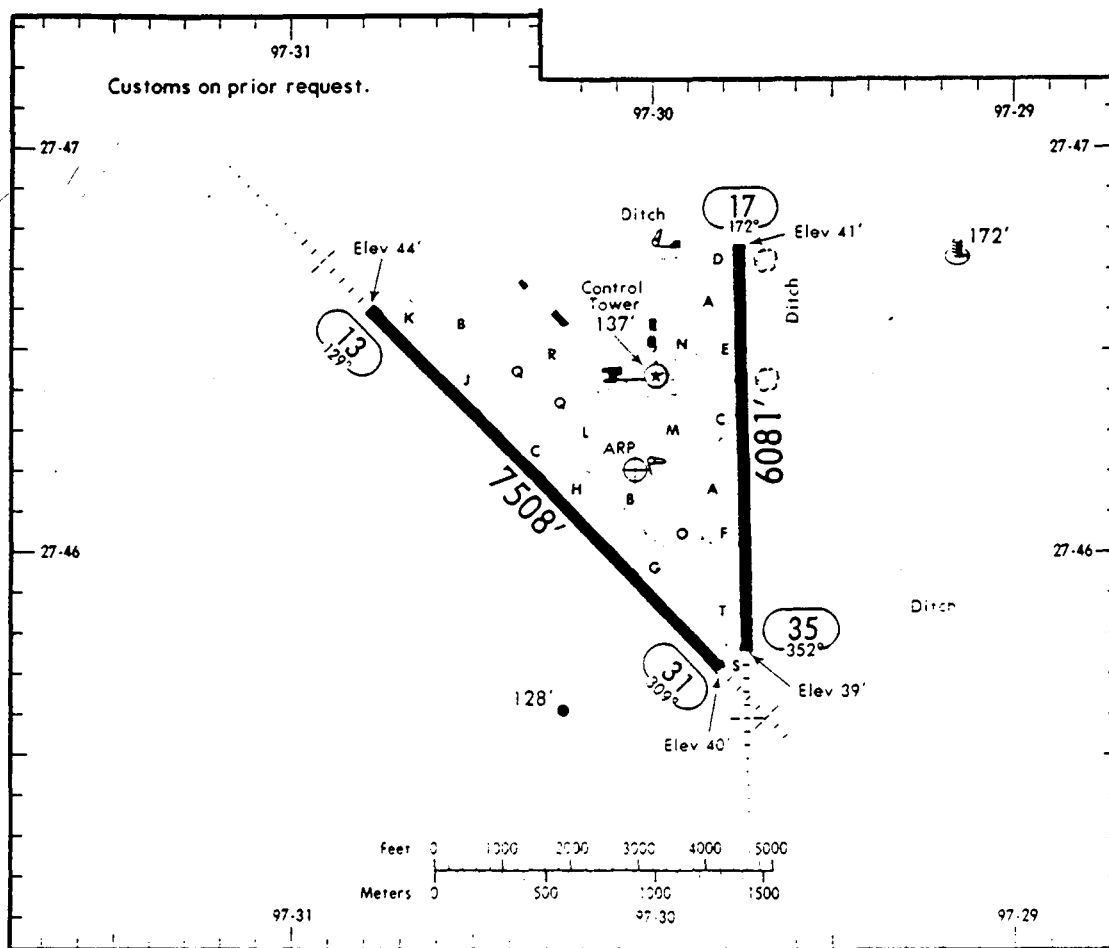
13 347AE
BTR TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	2	
NWS	1	
Other	-	
Total Displays		5

FY 93	REPLACE	R/W 13
-------	---------	--------

CORPUS CHRISTI TX (CRP)

ASW



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EXISTING

NEW GENERATION

13 347AE

CRP TD

System Elements

QTY REQ'D

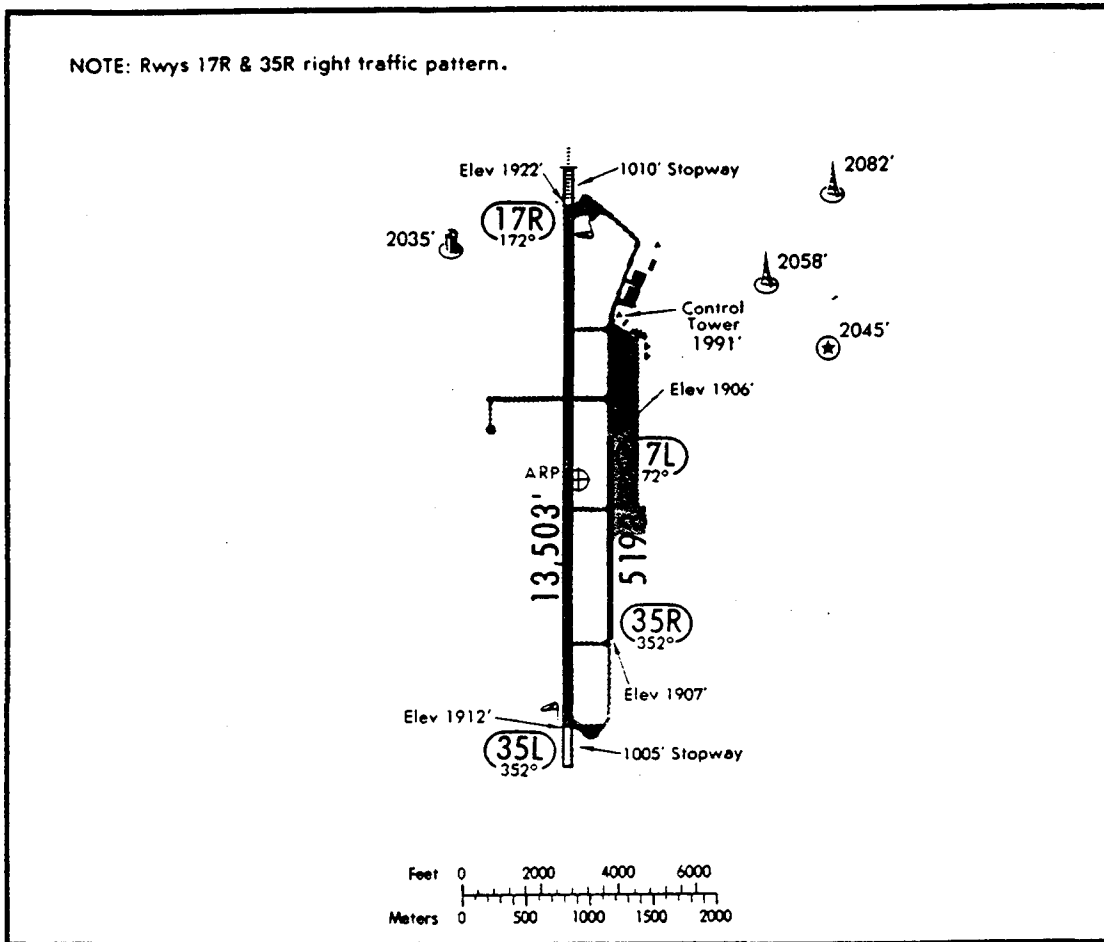
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	2
NWS	1
Other	-

Total Displays 5

FY 93	REPLACE	R/W 13
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BURNS FLAT OK (CSM)

ASW



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EXISTINGNEW GENERATION35 347AG

CSM TD

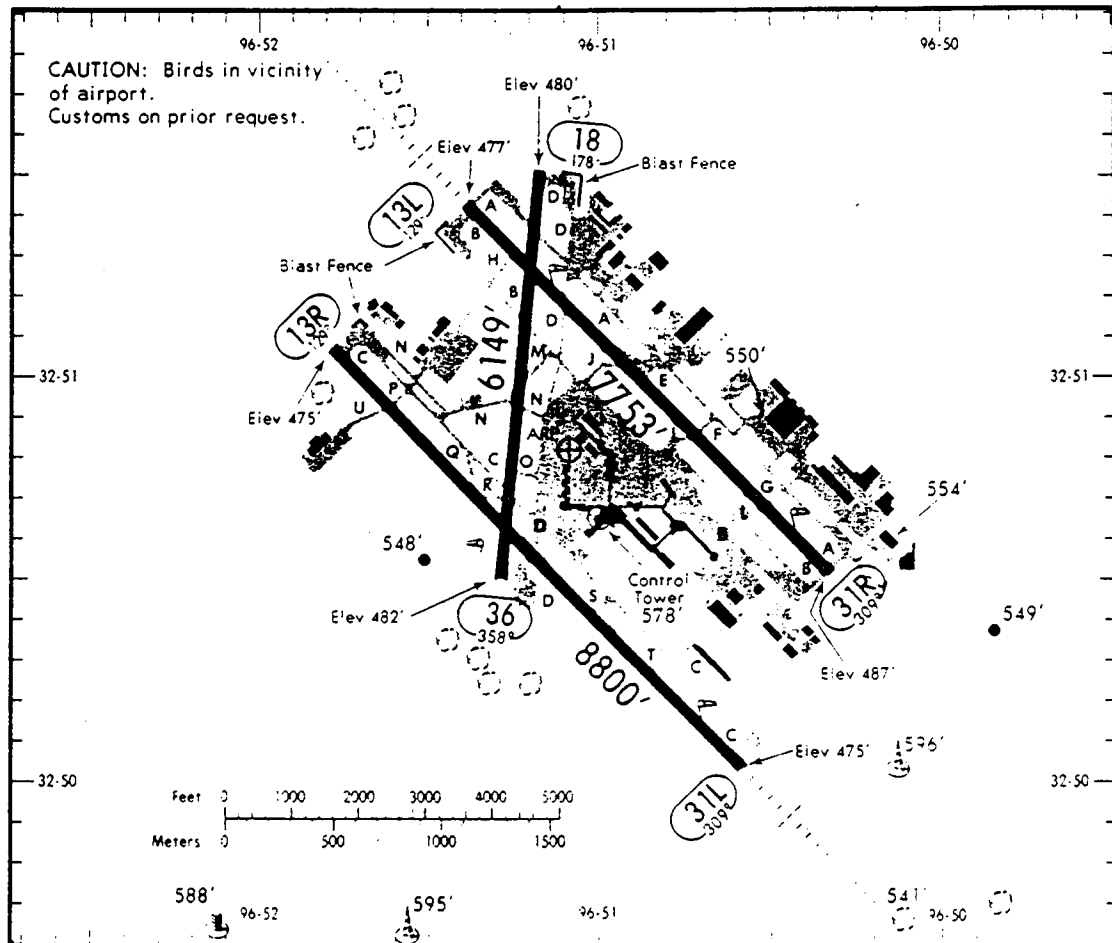
System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	-
NWS	-
Other	-
Total Displays	1

FY 93	REPLACE	R/W 35
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DALLAS (LOVE) TX (DAL)

ASW



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EXISTING

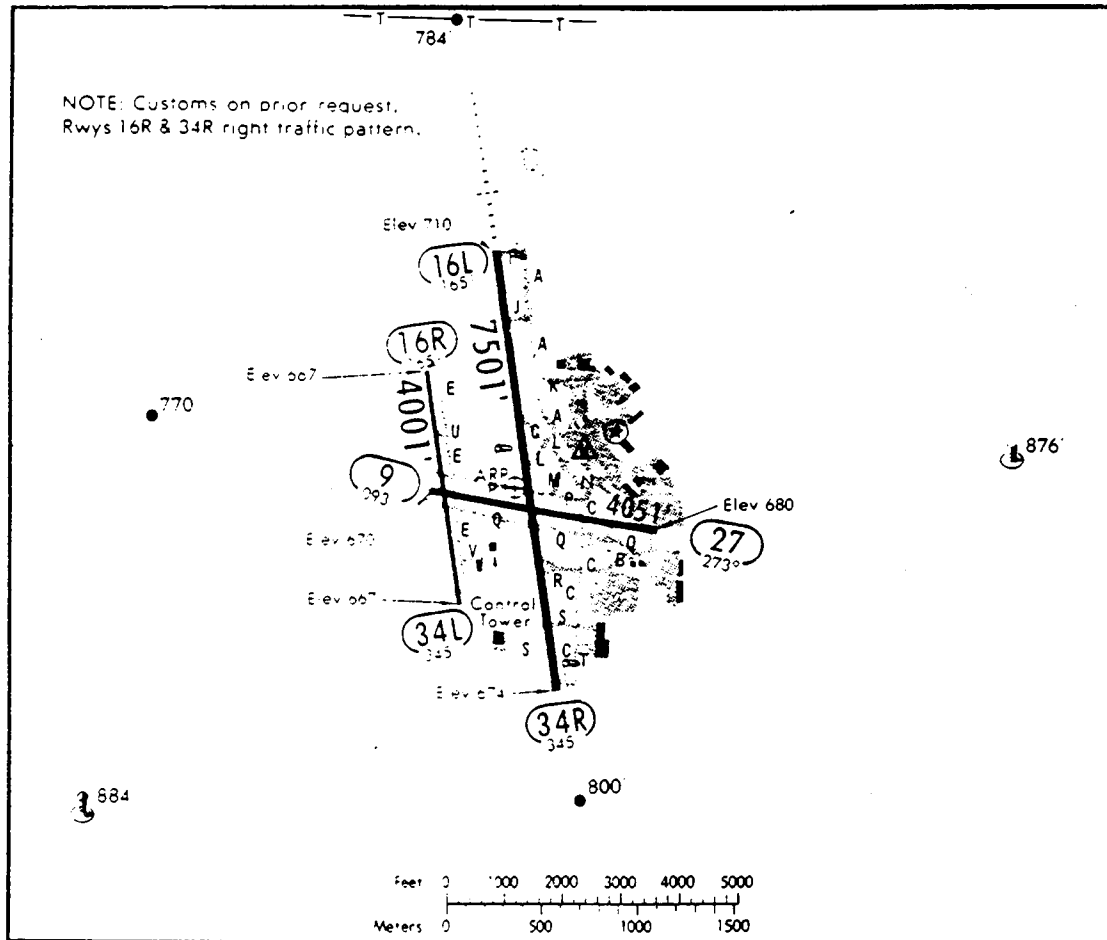
NEW GENERATION

		<u>System Elements</u>	<u>QTY REQ'D</u>
13L	<u>347AE</u>	Basic	1
DAL	TD	Sensor Packages	1
31L	<u>347AD</u>	RLIM	1
LVF	TD	Displays	
		ATCT	4
		TRACON	2
		NWS	-
		Other	-
		Total Displays	6

FY 93	REPLACE	R/W 13L, 31L
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FORT WORTH TX (FTW)

ASW



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EXISTINGNEW GENERATION

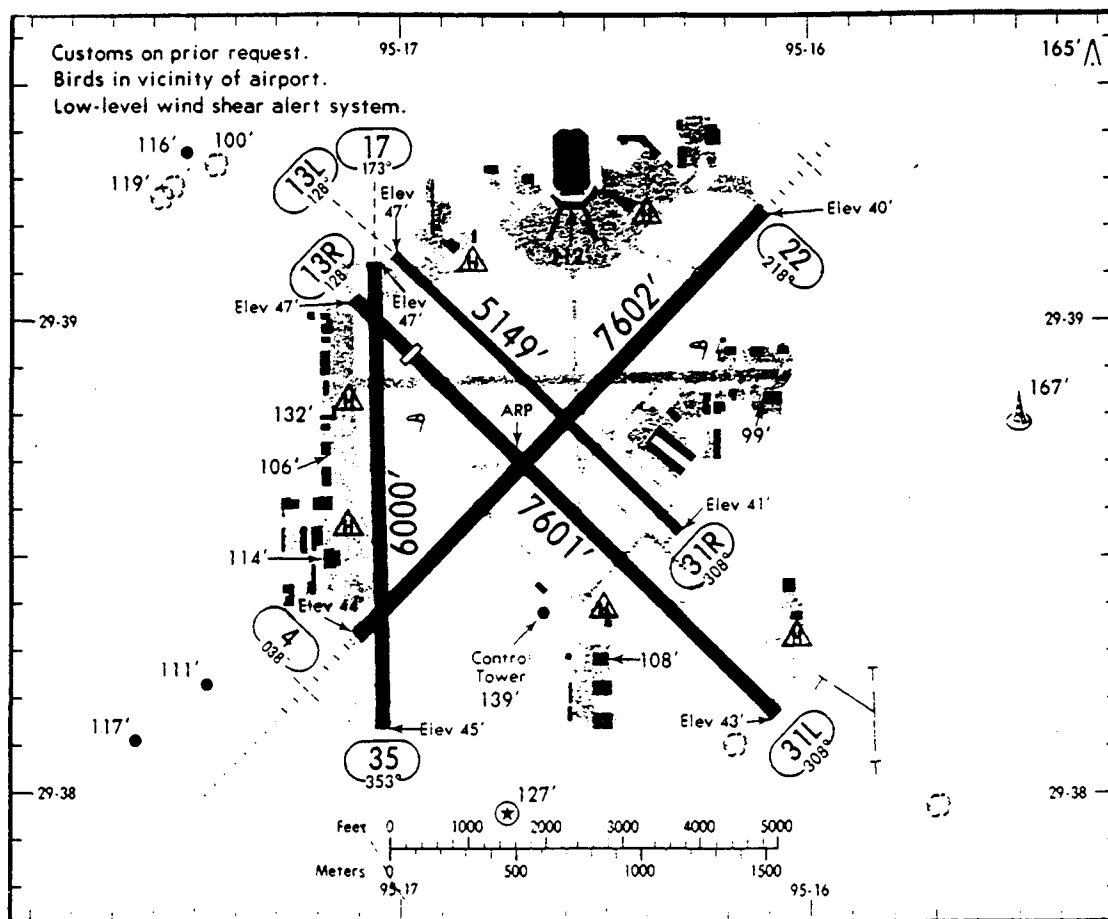
16L 347AE
FTW TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	3	
TRACON	-	
NWS	-	
Other	3	
Total Displays		6

FY 93	REPLACE	R/W 16L
-------	---------	---------

HOUSTON (HOBBY) TX (HOU)

ASW



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EXISTING

NEW GENERATION

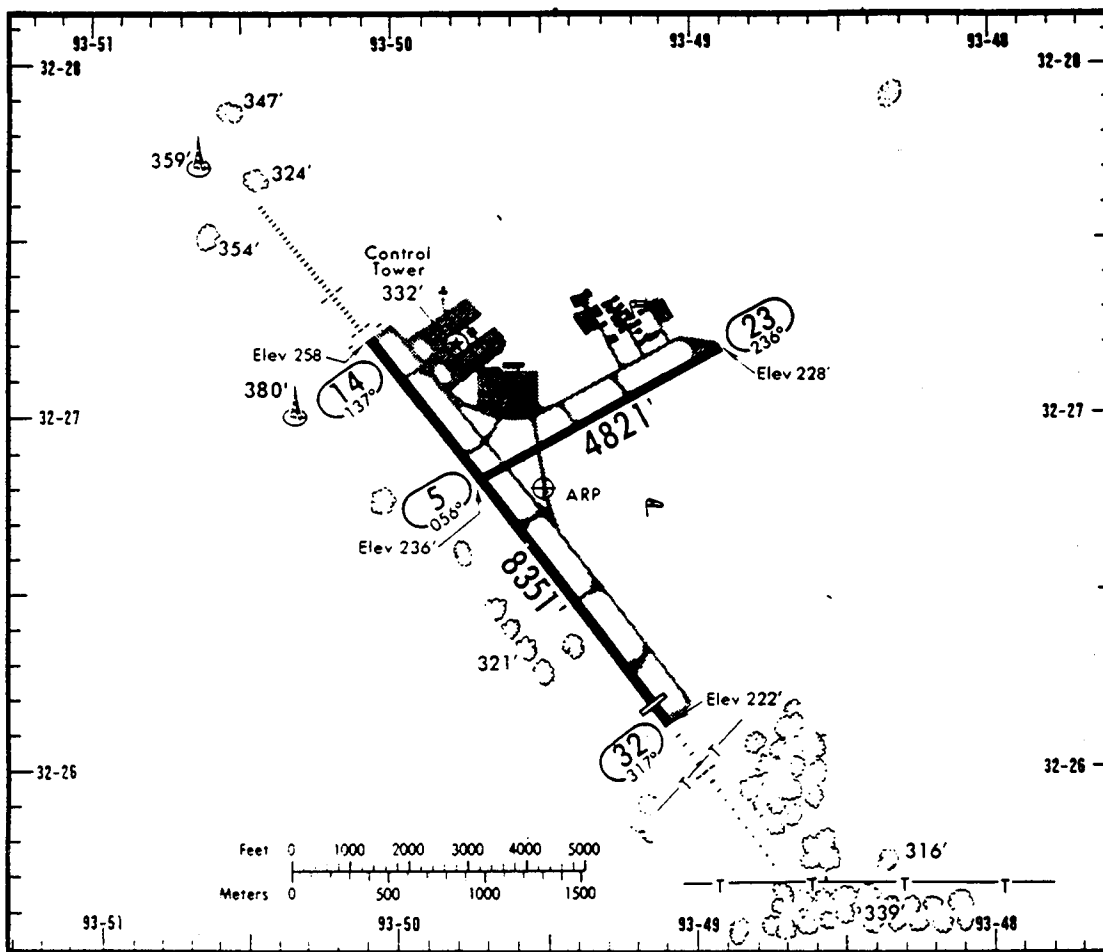
04 347AE
HUB TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	-	
NWS	1	
Other	-	
Total Displays		2

FY 93	REPLACE	R/W 04
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SHREVEPORT LA (SHV)

ASW

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ALL RIGHTS RESERVEDEXISTINGNEW GENERATION14 347AE

SHV	TD
SHVA	RO
SHVB	MP

System ElementsQTY REQ'D

Basic	1
Sensor Packages	2
RLIM	-
Displays	
ATCT	7
TRACON	-
NWS	2
Other	6

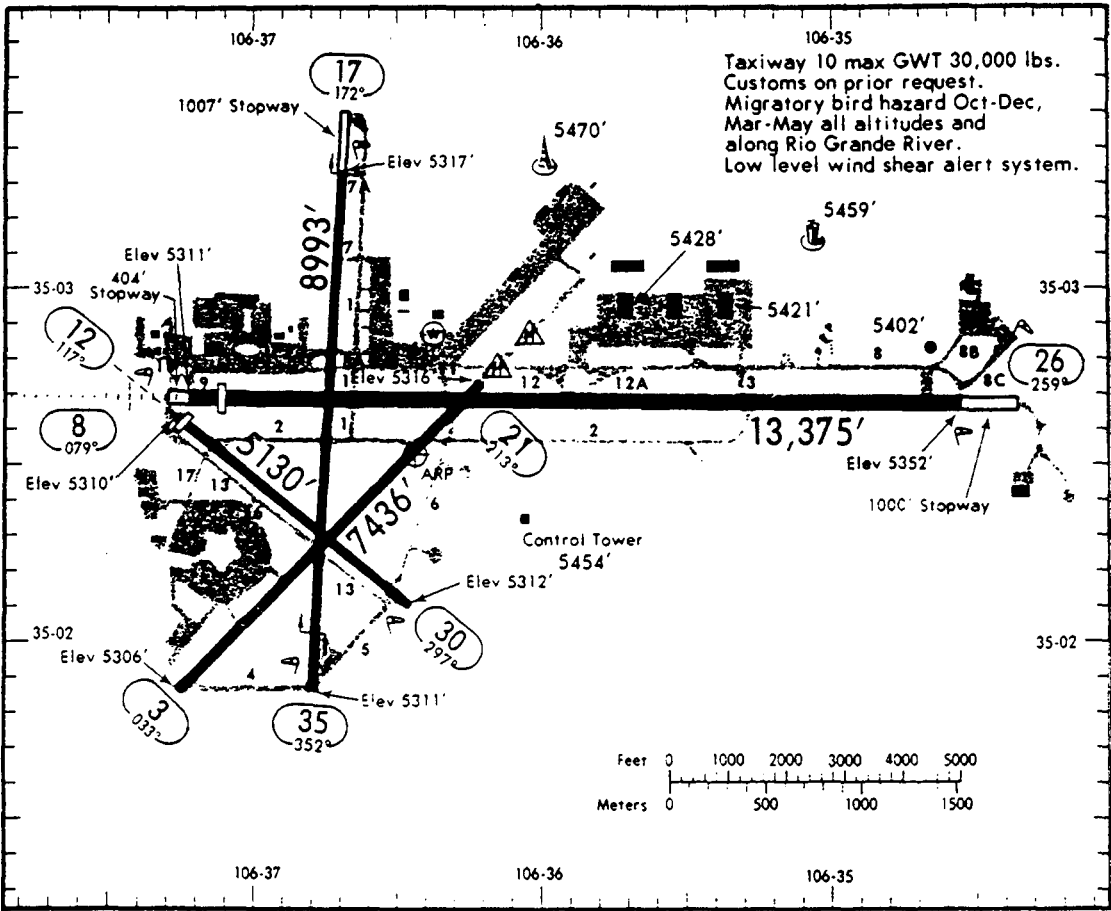
Total Displays

15

FY 93	REPLACE	R/W 14
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ALBUQUERQUE NM (ABQ)

ASW



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EXISTING

NEW GENERATION

08 347AE
SPT TD

System Elements	QTY REQ'D
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	5
NWS	1
Other	-
Total Displays	8

FY 93	REPLACE	R/W 08
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APPENDIX 9. AWP SITE LOCATIONS

REGION

AIRPORT LOCATION (LOCATION IDENTIFIER)

RESERVED FOR JEPPESEN
AIRPORT LAYOUT

JEPPESEN SANDERSON, INC., 1986, 1987
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EXISTING

Runway - RVR Model No.

RVR Location IDENT. TD, MP, RO
(AS APPLICABLE)

OTHER RVRs
(AS APPLICABLE)

NEW GENERATION

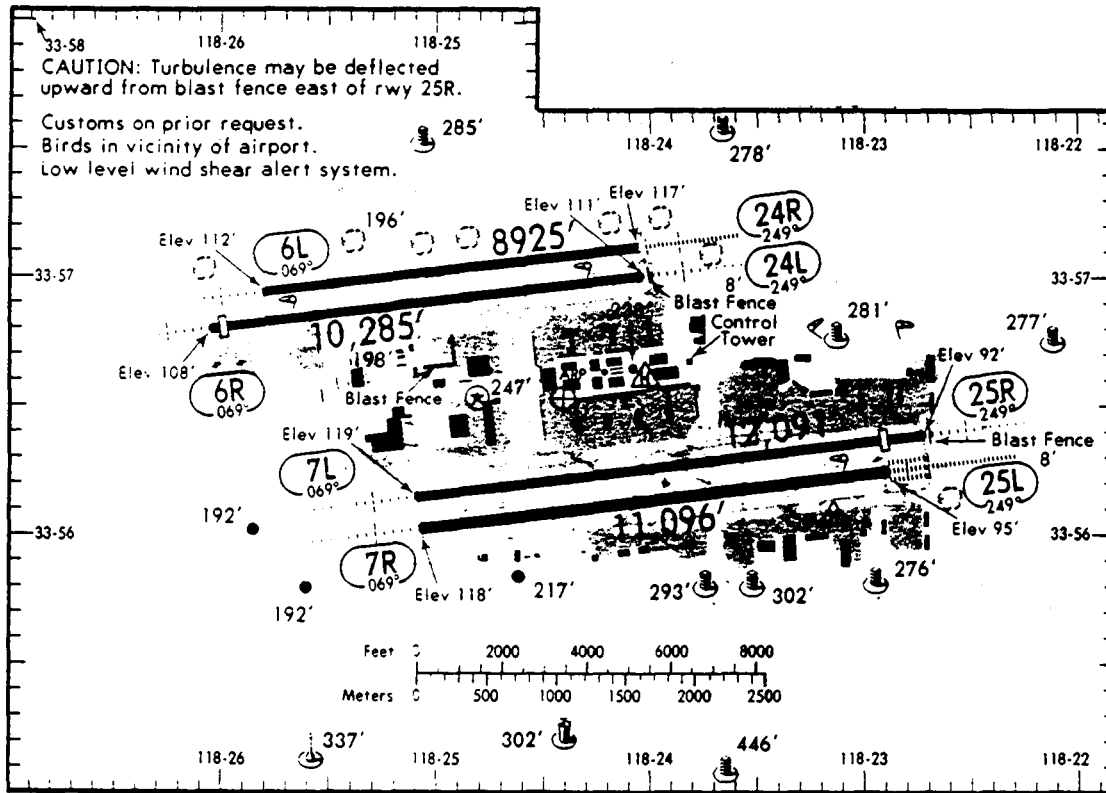
Runway Visibility System (1)	1
Sensor Package (2)	5
RLIM	1
Displays	
ATCT (a)	
TRACON (b)	
NWS (3) (c)	
Other (d)	

Total Displays (a + b + c + d)

- (1) Basic RVR System, Only One per Airport Location
- (2) Number of Existing RVR Sensors (minus 1)
- (3) Graphic Recorder Quantities

LOS ANGELES CA (LAX)

AWP



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EXISTINGNEW GENERATION

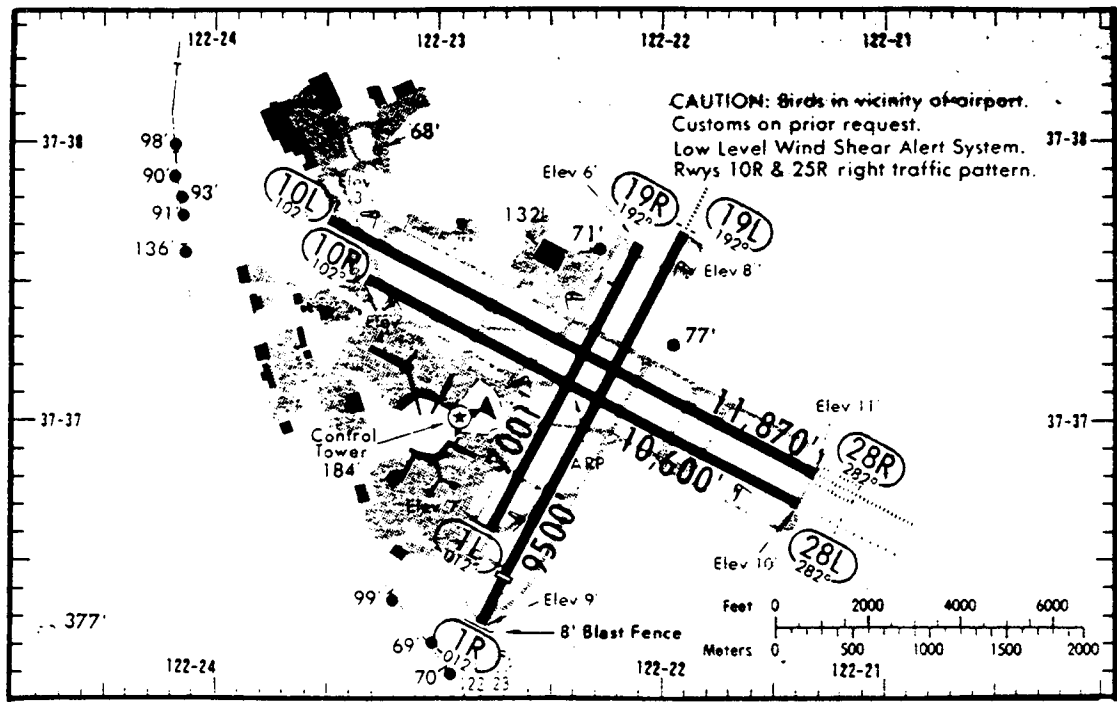
	<u>EXISTING</u>		<u>NEW GENERATION</u>	<u>System Elements</u>	<u>QTY REQ'D</u>
07L	<u>347AD</u>	24R	<u>347AD</u>	Basic	1
IAS	TD	OSS	TD	Sensor Packages	5
25R	<u>347AD</u>	OSSA	MP	RLIM	3
LAXA	MP	25L	<u>347AD</u>	Displays	
06R	<u>347AD</u>	LAX	TD	ATCT	5
GPE	TD			TRACON	9
				NWS	1
				Other	-
Total Displays					15

FY 84	CAT IIIb	R/W 24R
FY 84	ESTABLISH	R/W 25L
FY 86	REPLACE	R/W 25L

8/10/88

SAN FRANCISCO CA (SFO)

AWP



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EXISTING

NEW GENERATION

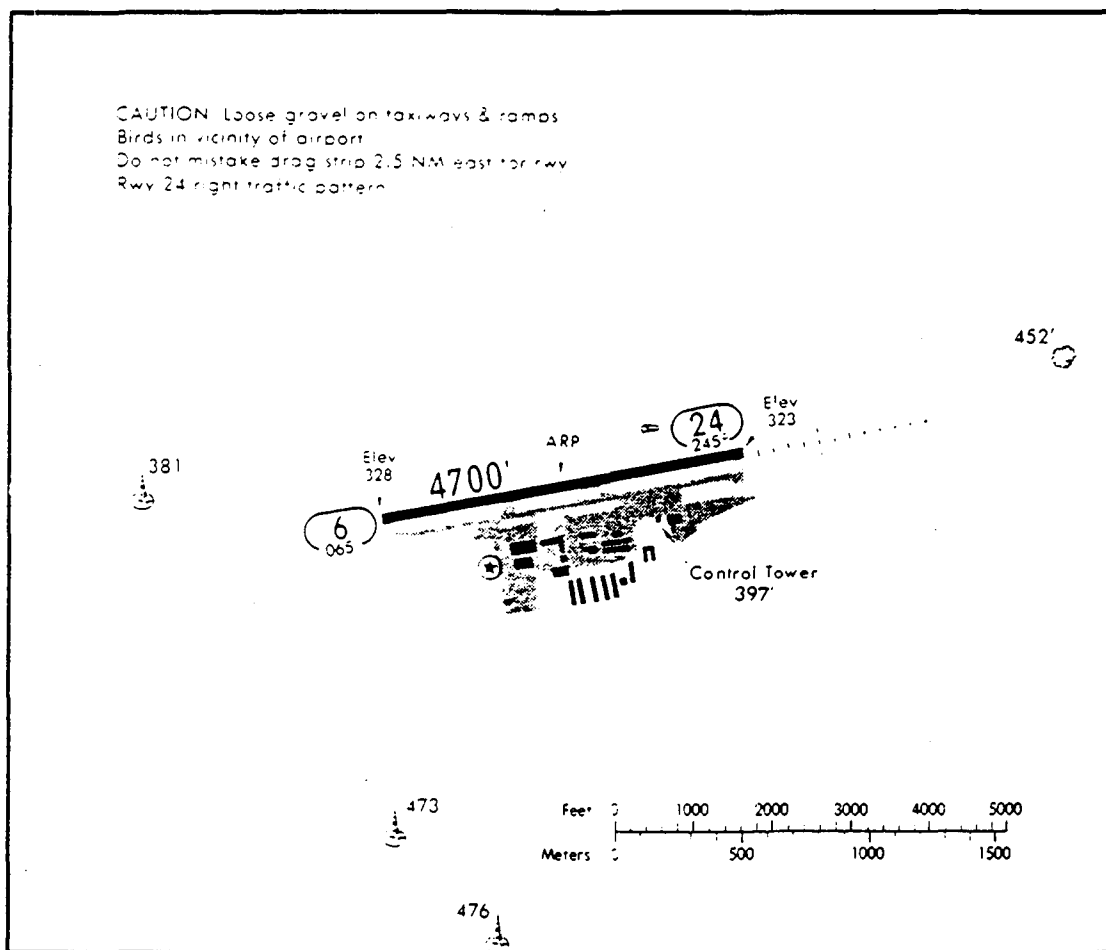
28R	<u>347AE</u>
GWQ	TD
GWQA	RO
GWQB	MP
19L	<u>347AD</u>
SIA	TD
SIAA	RO

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	4
RLIM	1
Displays	
ATCT	7
TRACON	-
NWS	-
Other	-
Total Displays	7

FY 84	CAT IIIB	R/W 28R
FY 86	REPLACE	R/W 19L

CARLSBAD CA (CRQ)

AWP

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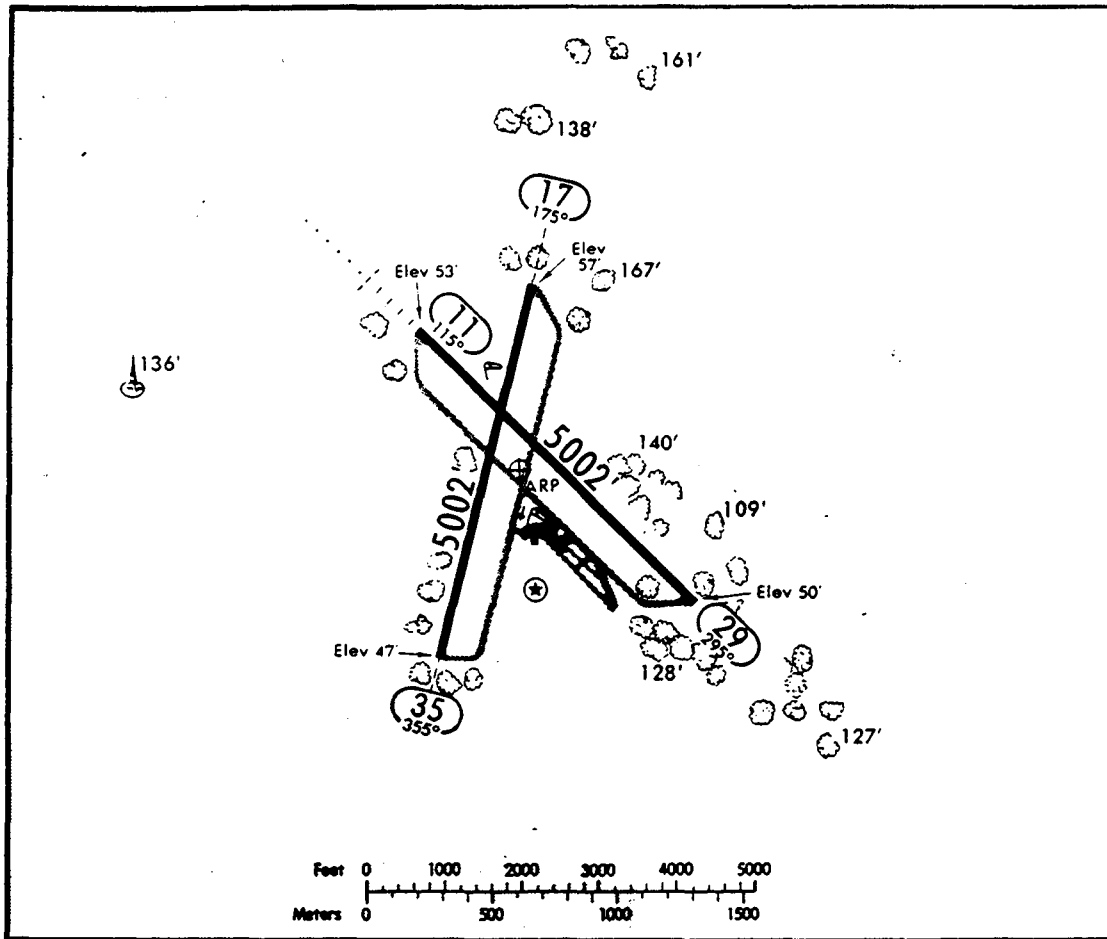
NONE

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	-
Other	-
Total Displays	2

FY 84	ESTABLISH	R/W 24
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CRESCENT CITY CA (CEC)

AWP



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EXISTING

NEW GENERATION

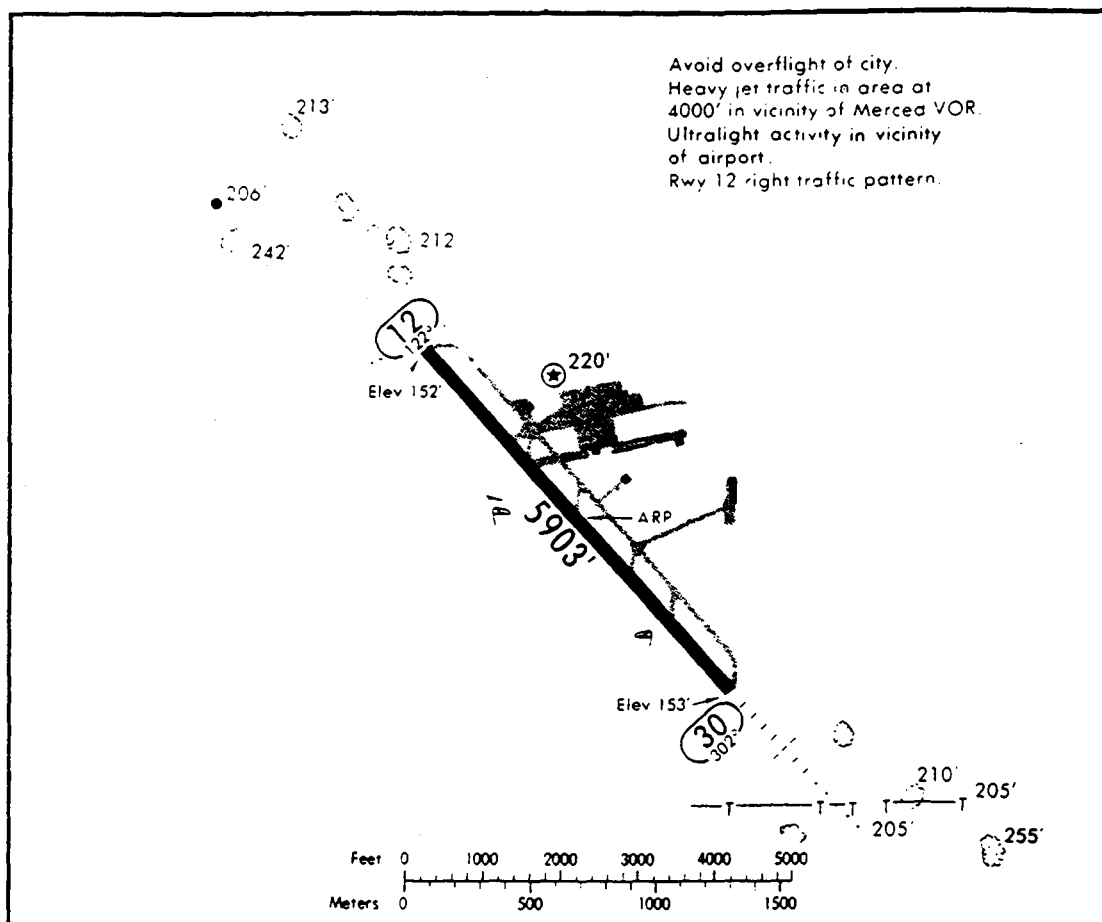
NONE

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	3	
TRACON	-	
NWS	-	
Other	-	
Total Displays		3

FY 84	ESTABLISH	R/W 11
-------	-----------	--------

MERCED CA (MCE)

AWP



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EXISTINGNEW GENERATION

NONE

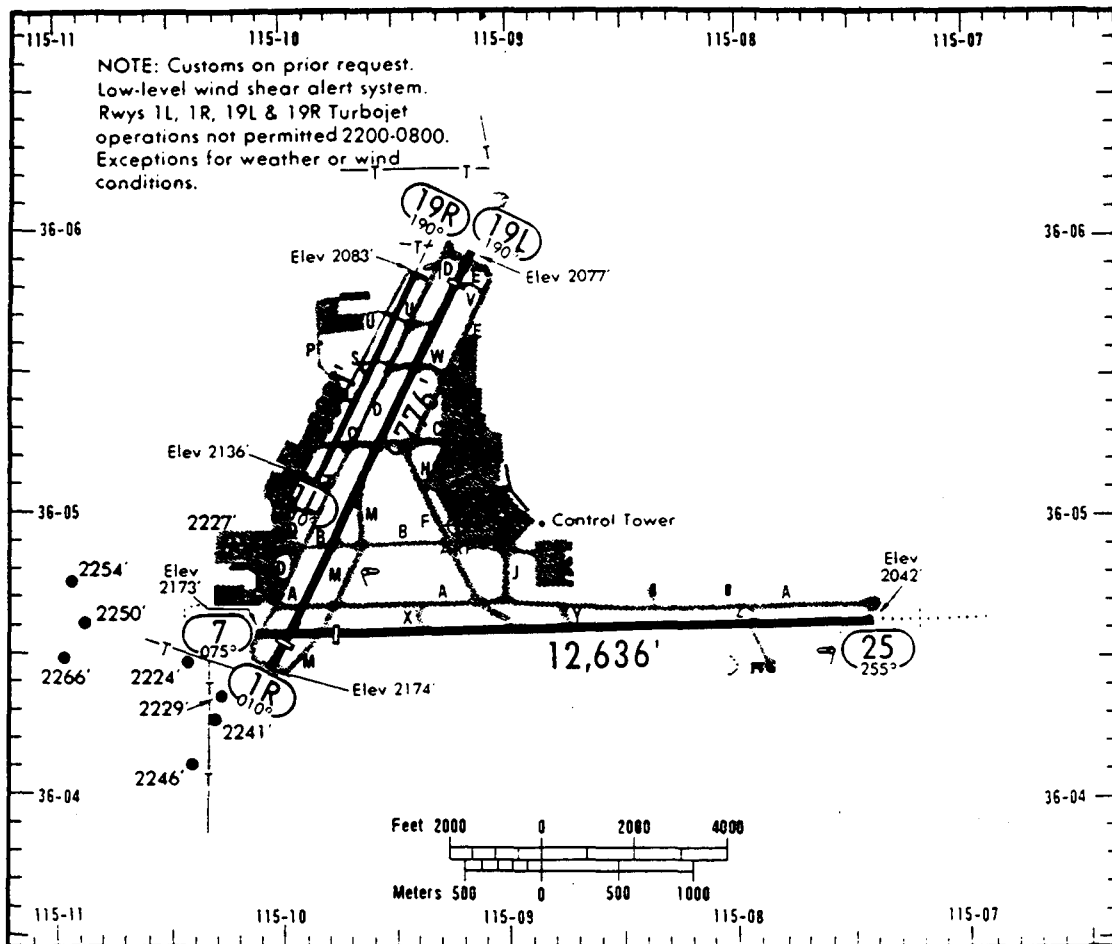
System ElementsQTY REQ'D

Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 84	ESTABLISH	R/W 30
-------	-----------	--------

LAS VEGAS NV (LAS)

AWP



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EXISTING

NEW GENERATION

NONE

System Elements

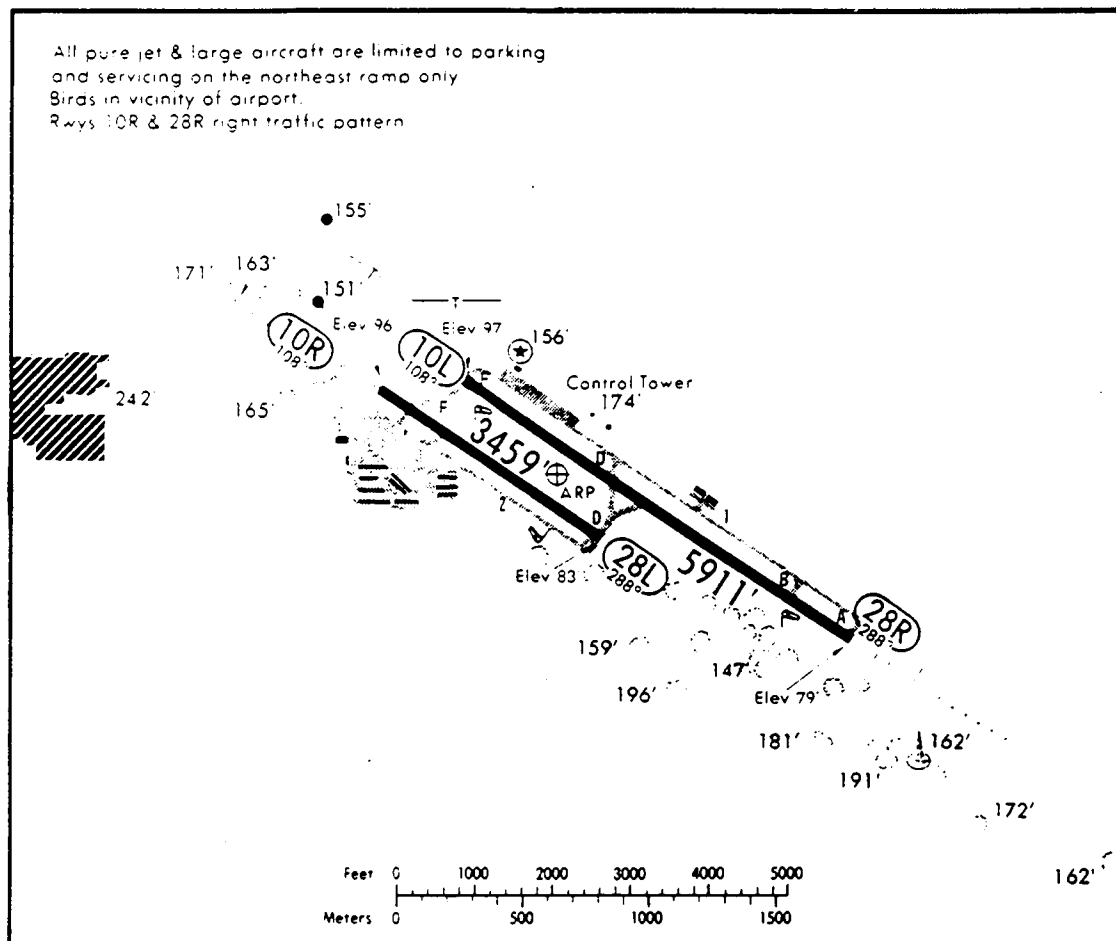
QTY REQ'D

Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 85	ESTABLISH	R/W 25
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MODESTO CA (MOD)

AWP

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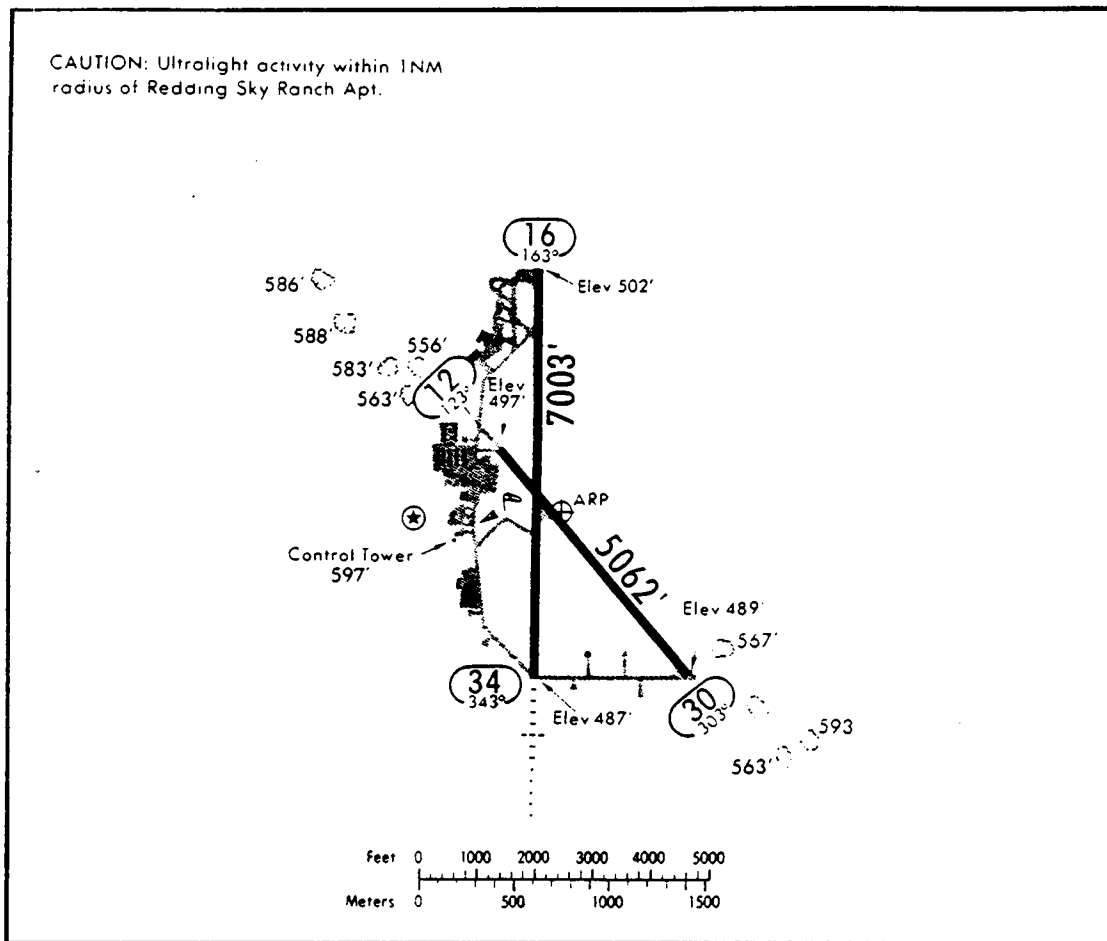
NONE

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 85	ESTABLISH	R/W 28R
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REDDING CA (RDD)

AWP



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EXISTING

NEW GENERATION

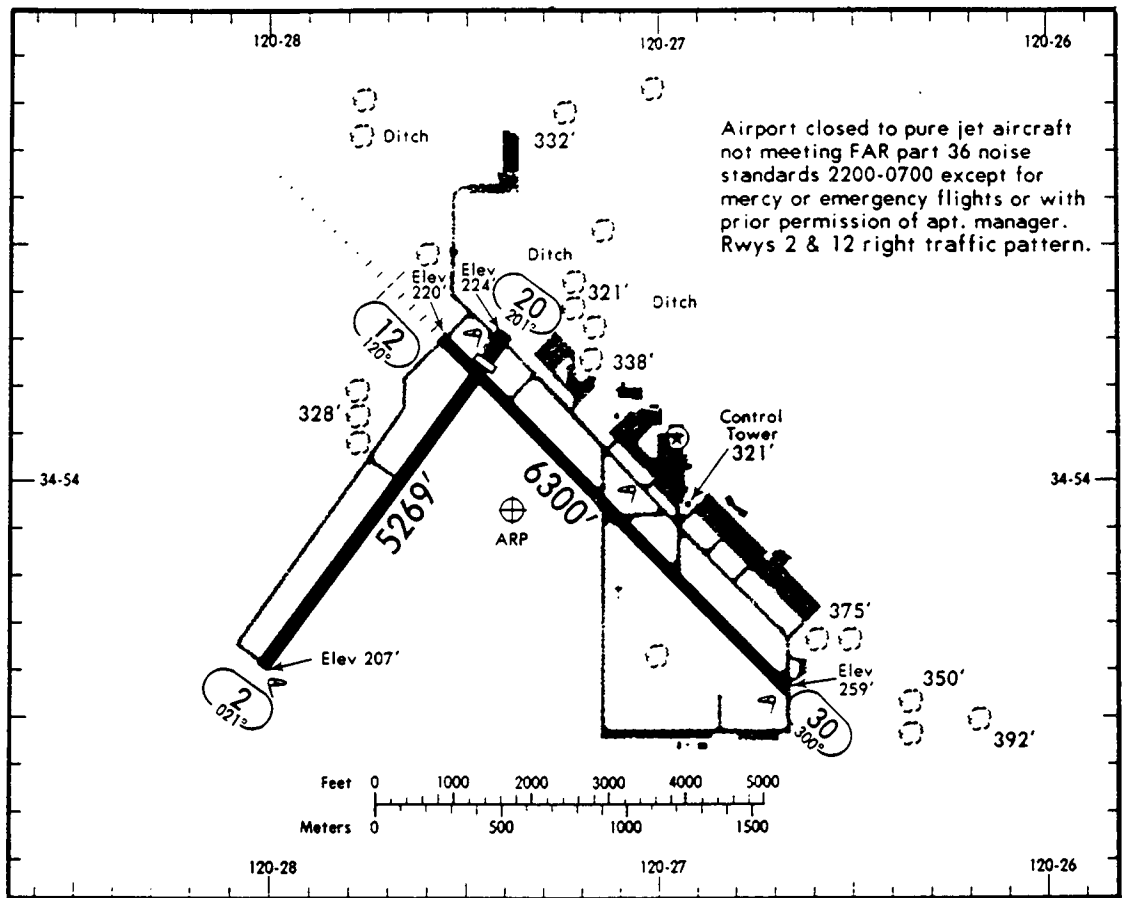
NONE

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 85	ESTABLISH	R/W 34
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SANTA MARIA CA (SMX)

AWP



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EXISTING

NEW GENERATION

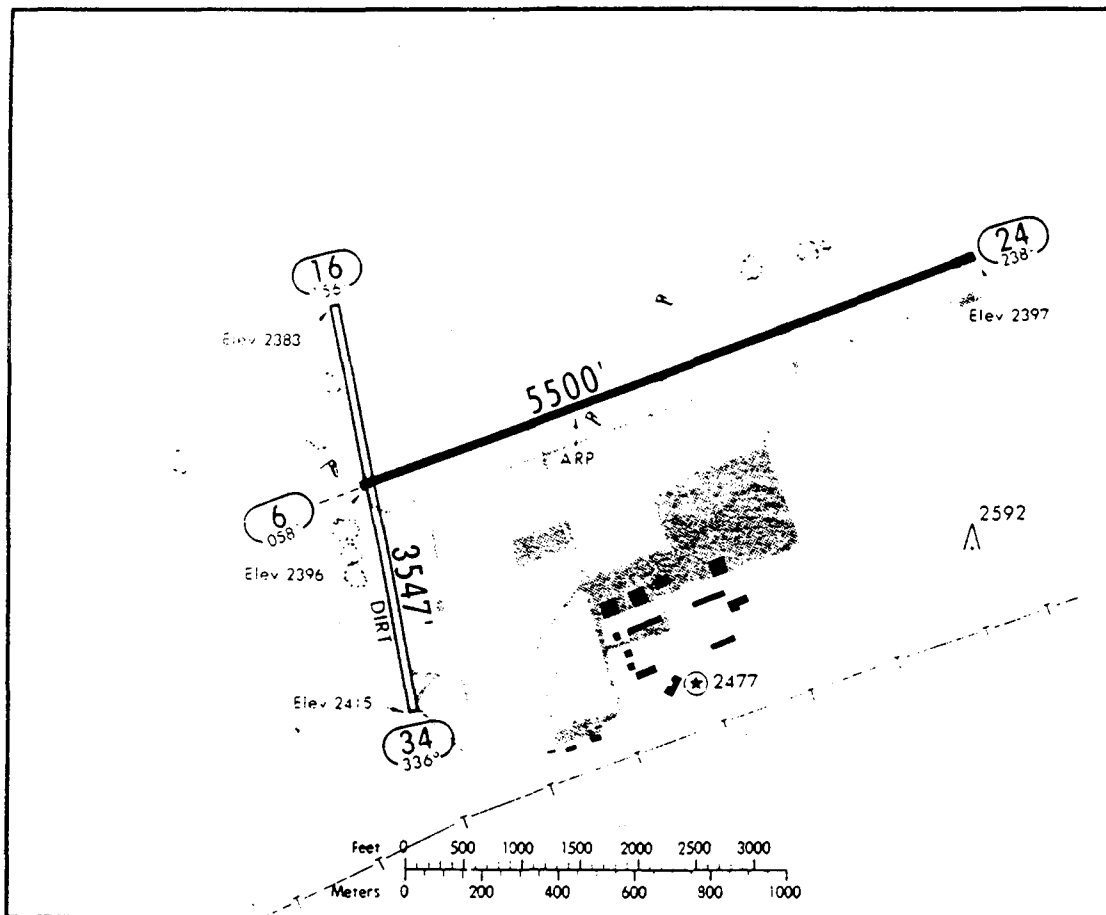
NONE

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 85	ESTABLISH	R/W 12
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TUSCON AZ (TUS)

AWP



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EXISTING

NEW GENERATION

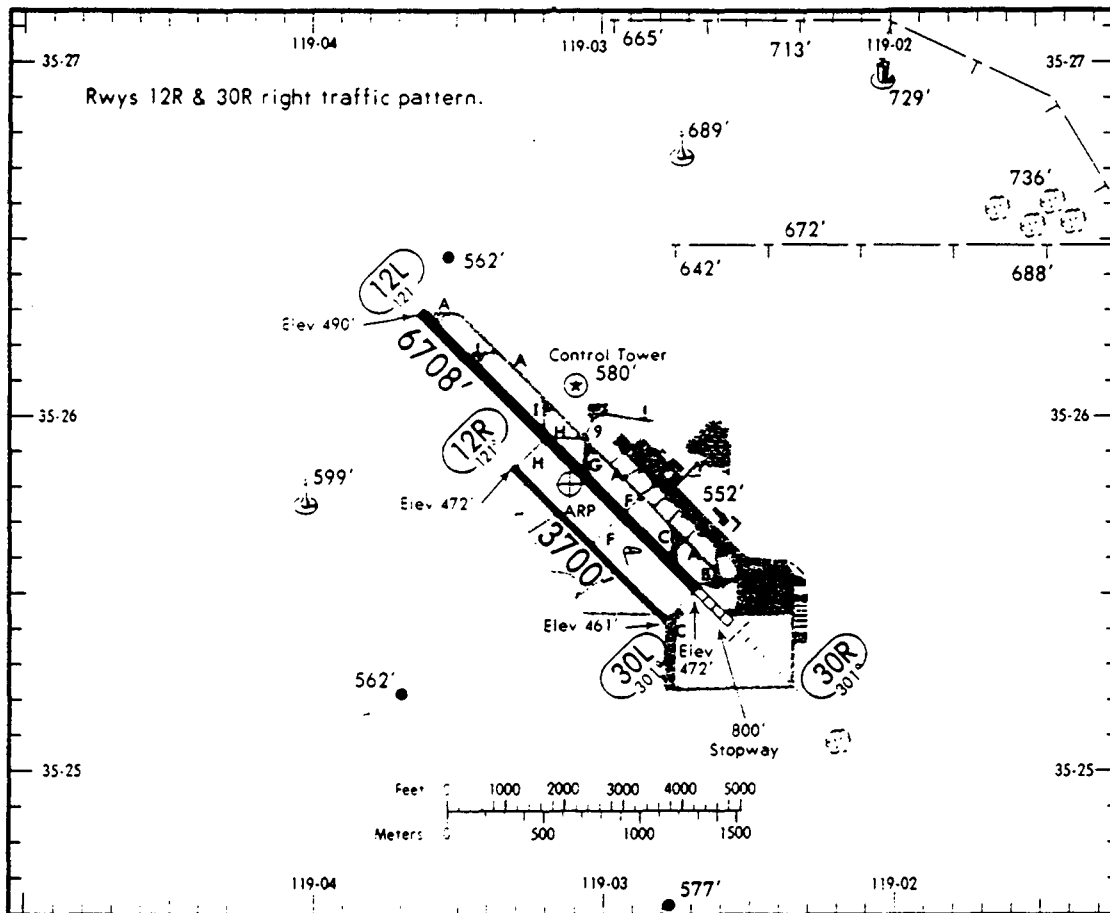
NONE

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	-	
NWS	-	
Other	-	
Total Displays		2

FY 85	ESTABLISH	R/W 11
-------	-----------	--------

BAKERSFIELD CA (BFL)

AWP

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BFL TD

System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	-
Other	-
Total Displays	2

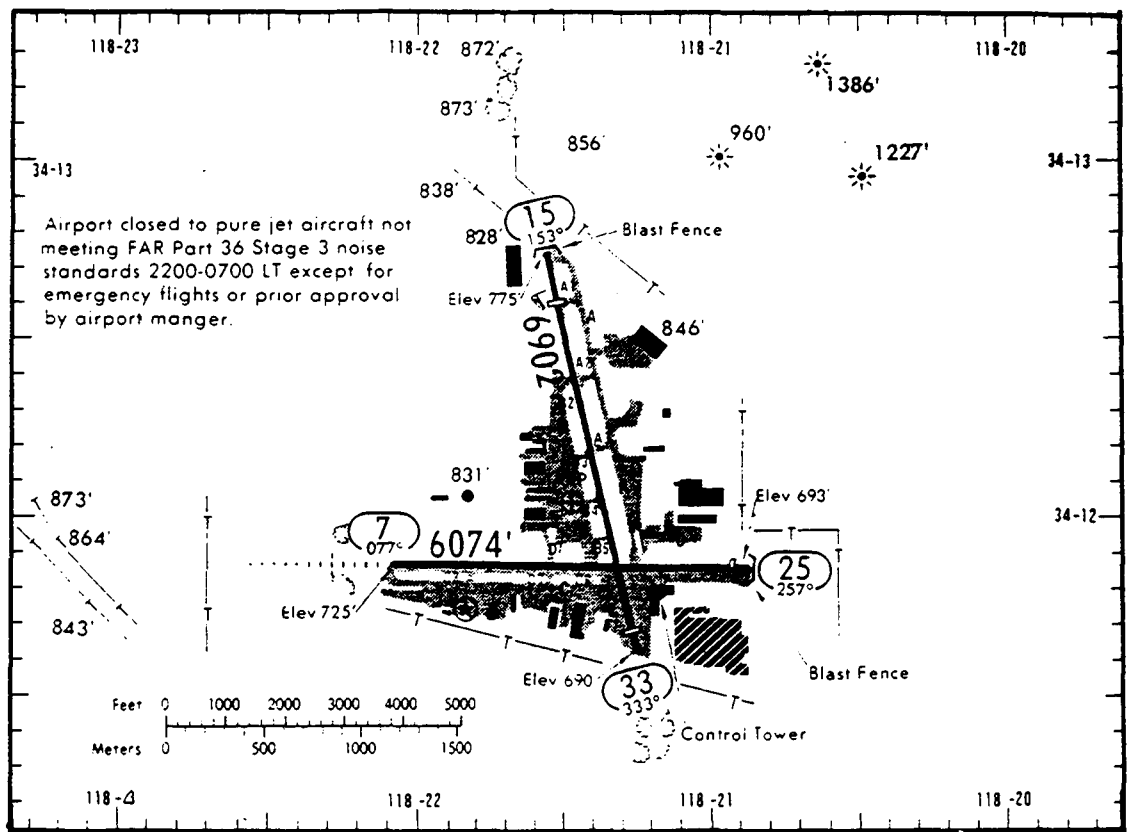
FY 85

CONVERT RVV

R/W 30R

BURBANK CA (BUR)

AWP



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EXISTING

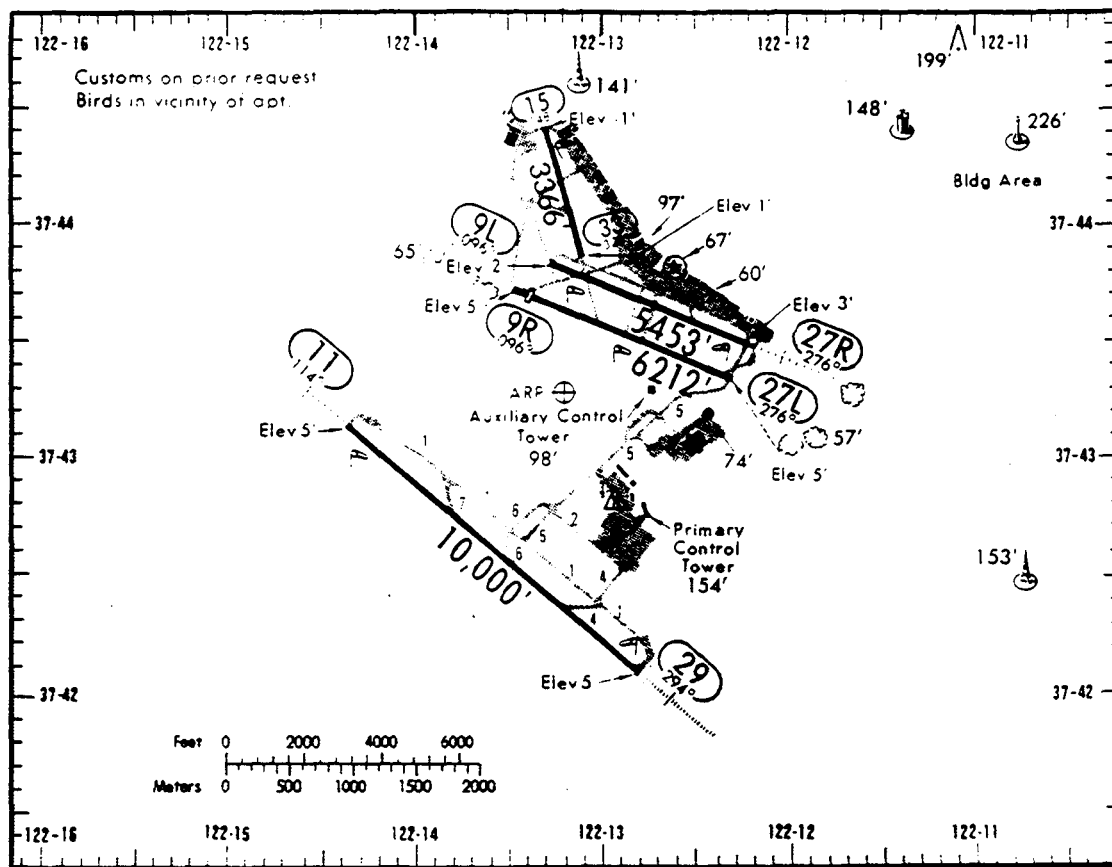
NEW GENERATION

07	<u>347AG</u>	<u>System Elements</u>	<u>QTY REQ'D</u>
BUR	TD	Basic	1
		Sensor Packages	-
		RLIM	-
		Displays	
		ATCT	2
		TRACON	4
		NWS	-
		Other	-
		Total Displays	6

FY 85	CONVERT RVV	R/W 07
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OAKLAND CA (OAK)

AWP

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27R	<u>34711</u>
OAK	TD
29	<u>347AE</u>
INB	TD
INBA	RO
INBC	MP

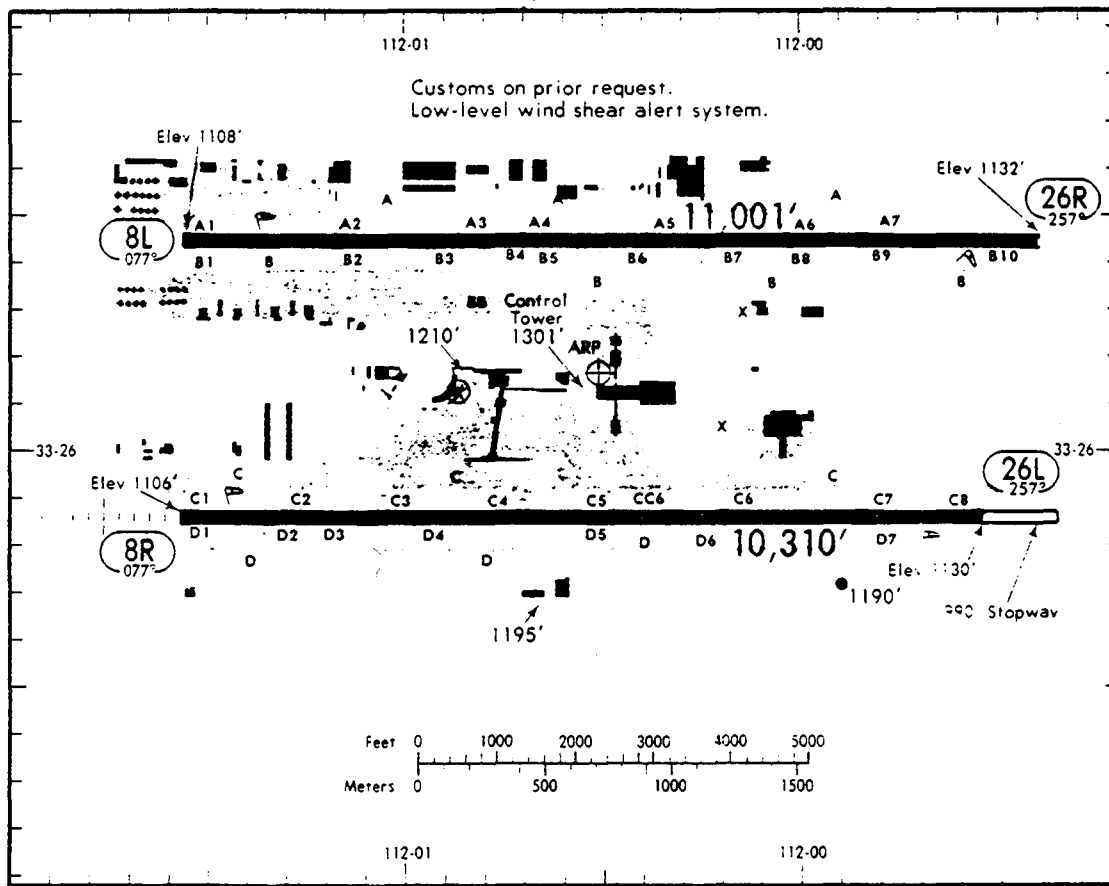
NEW GENERATION

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	3
RLIM	1
Displays	
ATCT	7
TRACON	1
NWS	-
Other	-
Total Displays	8

FY 85	CONVERT RVV	R/W 27R
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PHOENIX AZ (PHX)

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NEW GENERATION

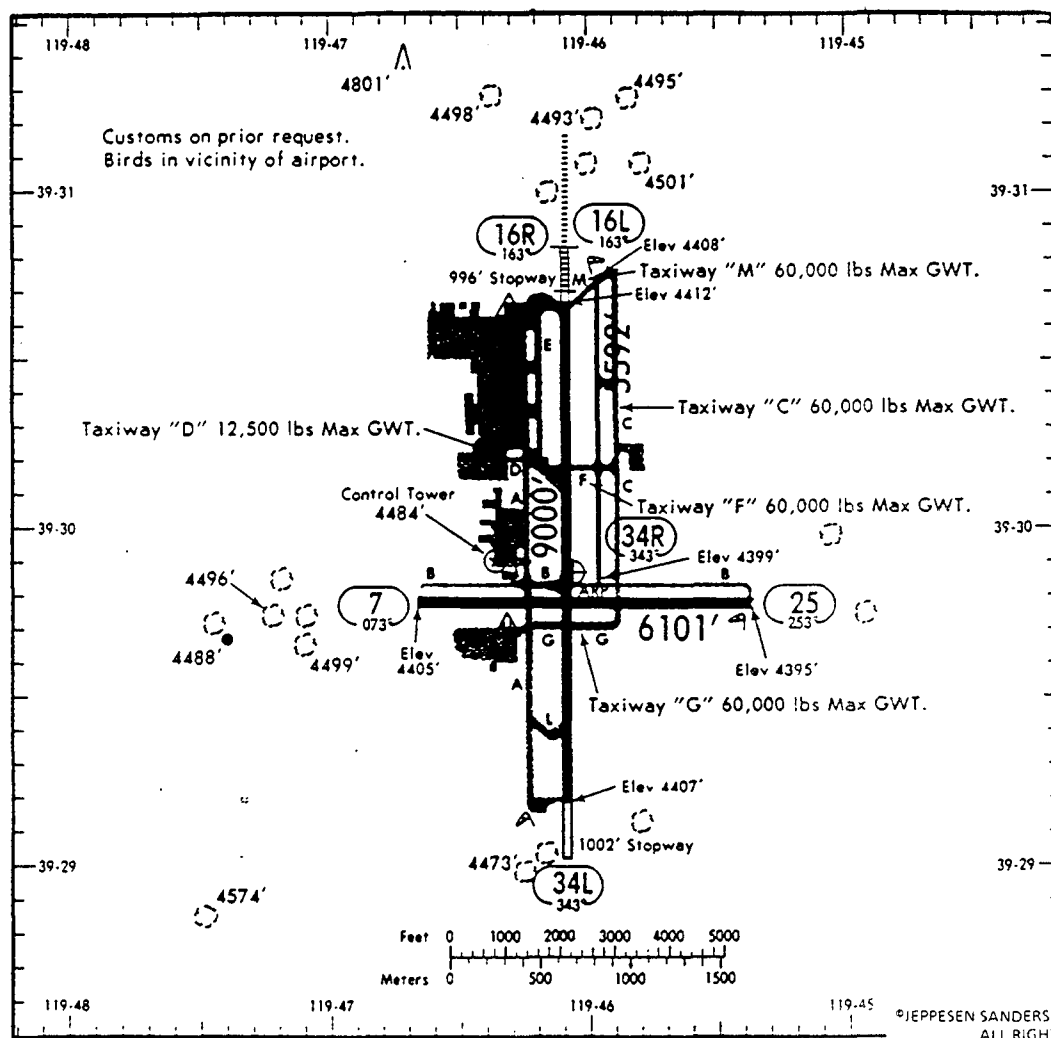
08R 347AG
PHX TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	1	
TRACON	-	
NWS	1	
Other	-	
Total Displays		2

FY 85	CONVERT RVV	R/W 08R
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RENO NV (RNO)

AWP

EXISTINGNEW GENERATION16 34711

RNO TD

System ElementsQTY REQ'D

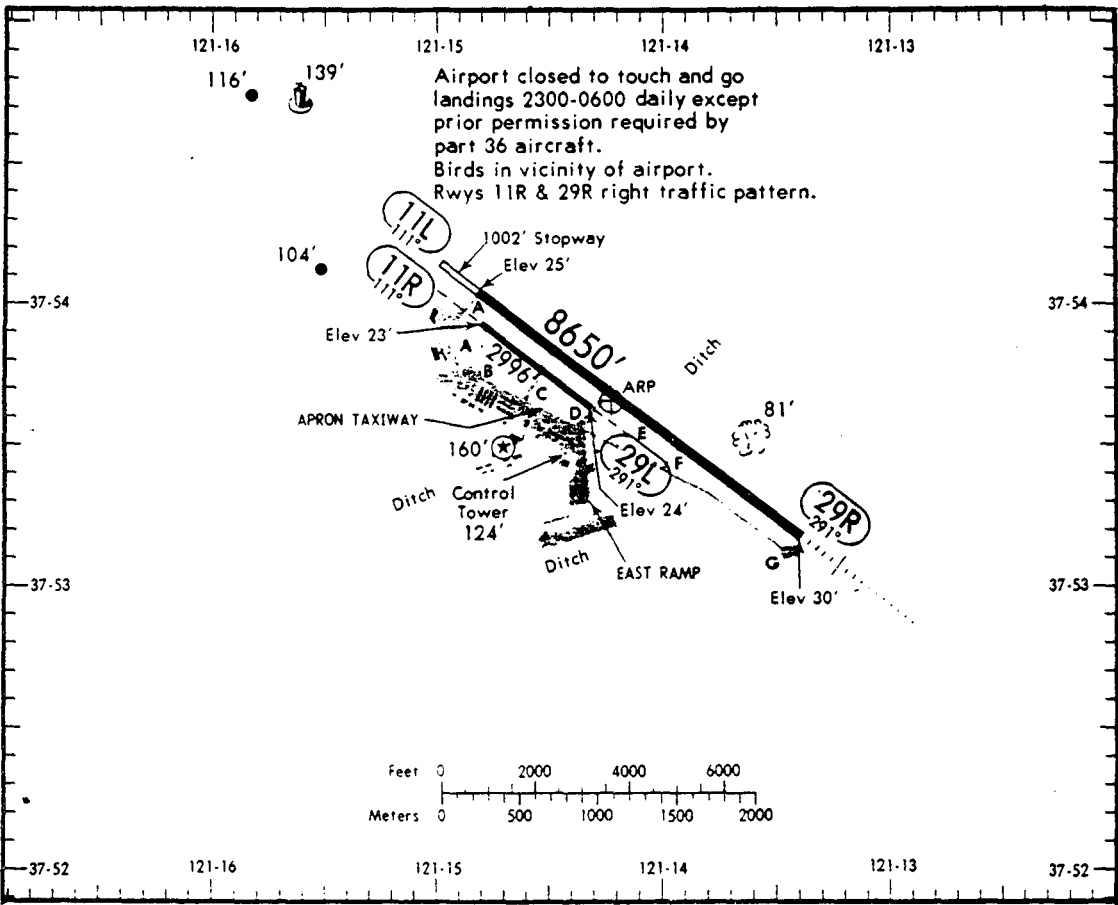
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	1
TRACON	-
NWS	1
Other	-

Total Displays	2
----------------	---

FY 85	CONVERT RVV	R/W 16
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STOCKTON CA (SCK)

AWP



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NEW GENERATION

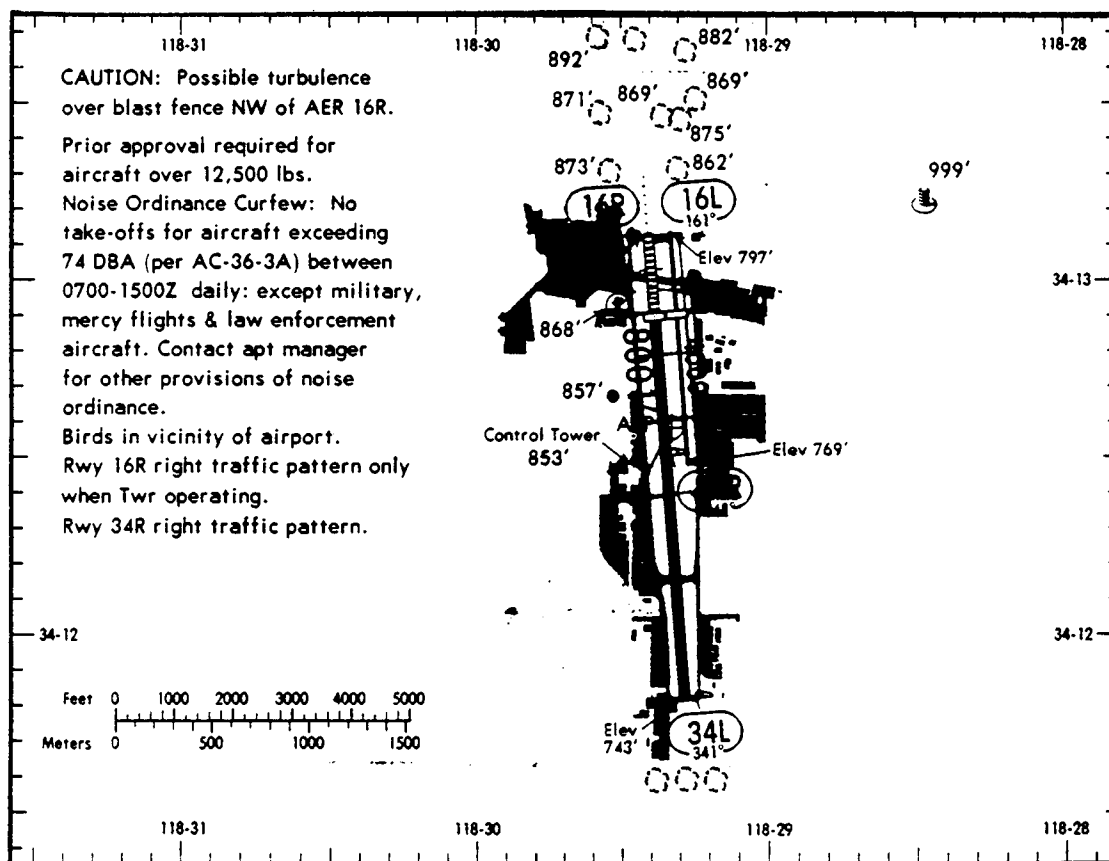
29R 34711
SCK TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	2	
TRACON	1	
NWS	-	
Other	-	
Total Displays		3

FY 85	CONVERT RVV	R/W 29R
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VAN NUYS CA (VNY)

AWP

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VNY TD

System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	-
Other	-

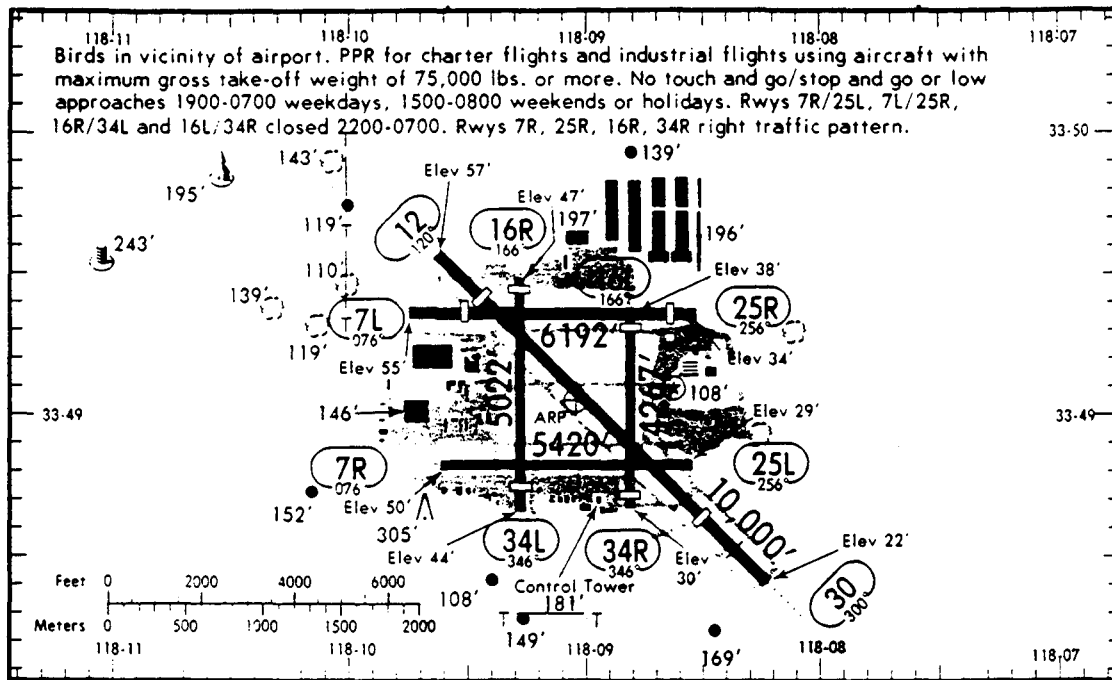
Total Displays	2
----------------	---

FY 85	CONVERT RVV	R/W 16R
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8/10/88

LONG BEACH CA (LGB)

AWP



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EXISTING

NEW GENERATION

30 34715

LGB TD

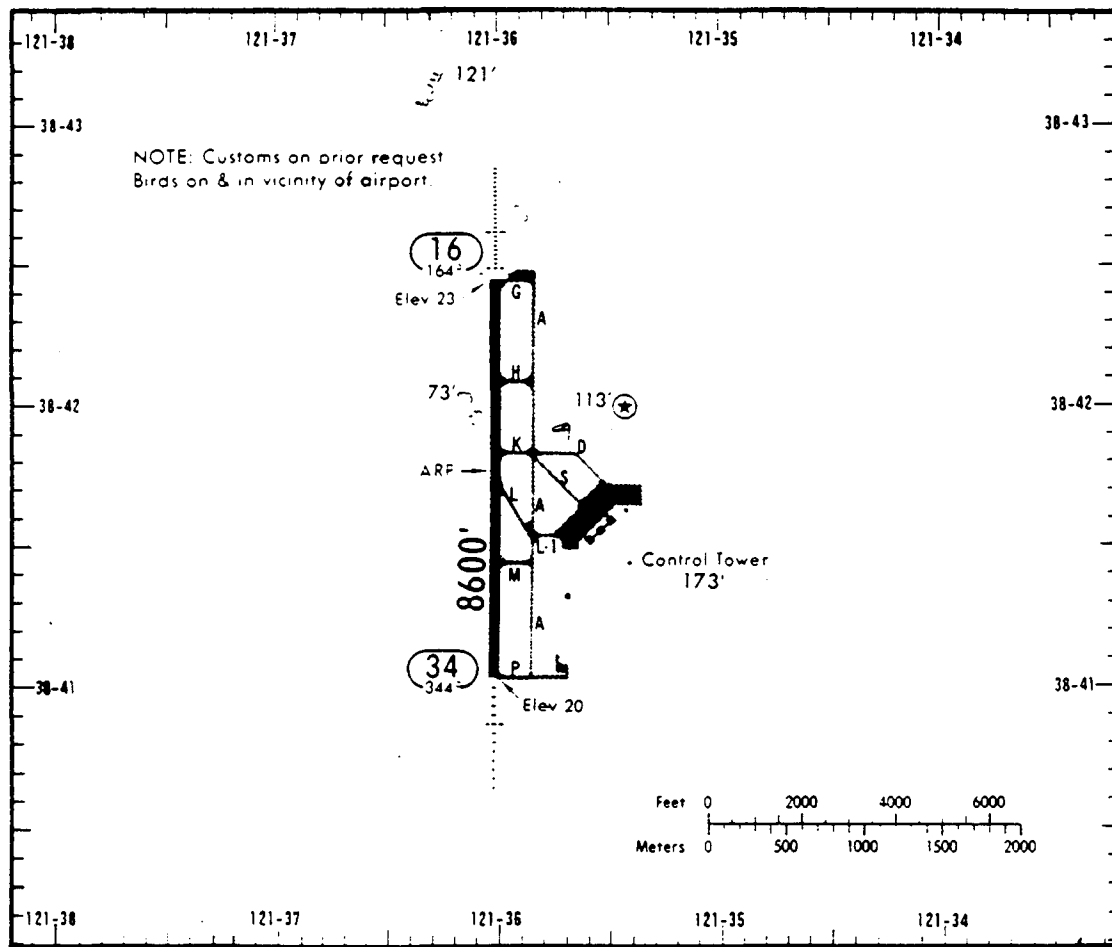
System Elements QTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	3
TRACON	3
NWS	-
Other	-
Total Displays	6

FY 86	REPLACE	R/W 30
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SACRAMENTO METROPOLITAN CA (SMF)

AWP

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16 347AD

SMF TD

SMFA RO

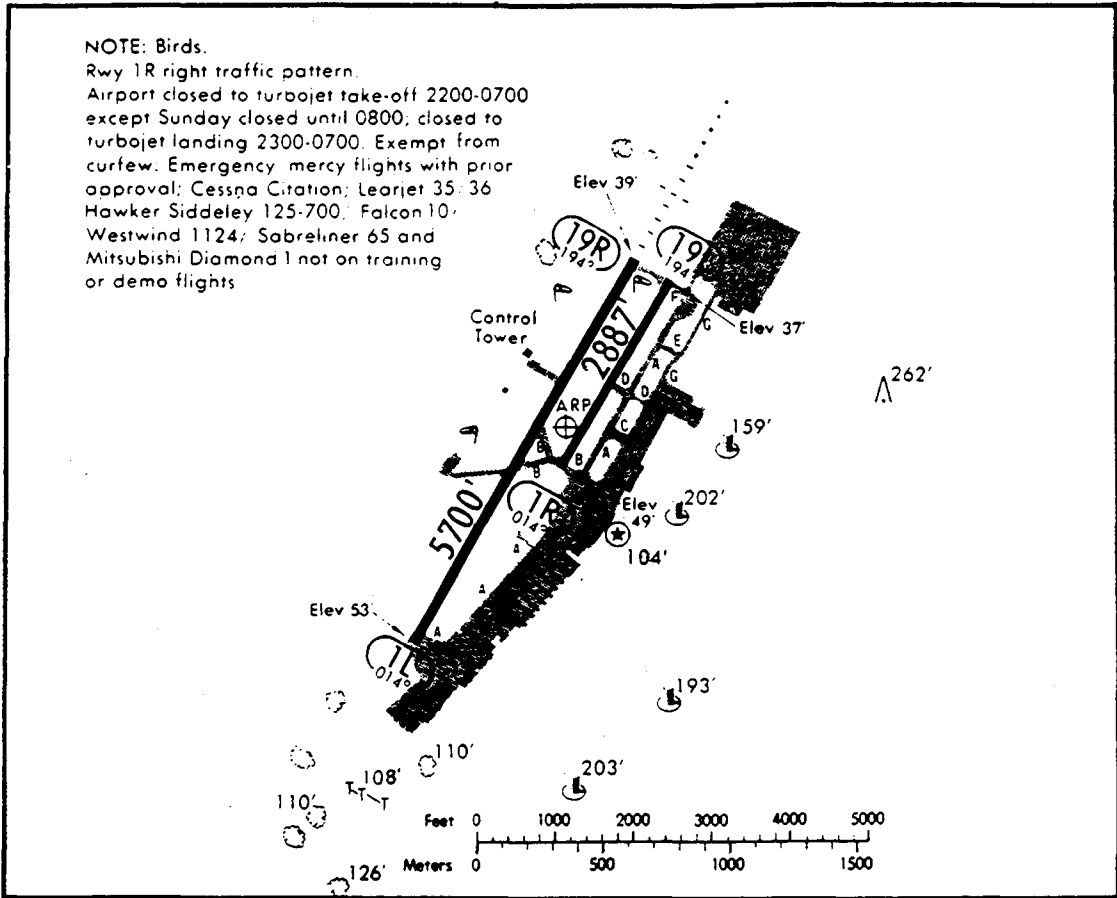
SMFB MP

System Elements	QTY REQ'D
Basic	1
Sensor Packages	2
RLIM	-
Displays	
ATCT	5
TRACON	-
NWS	-
Other	-
Total Displays	5

FY 86	REPLACE	R/W 16
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SANTA ANA CA (SNA)

AWP



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EXISTING

NEW GENERATION

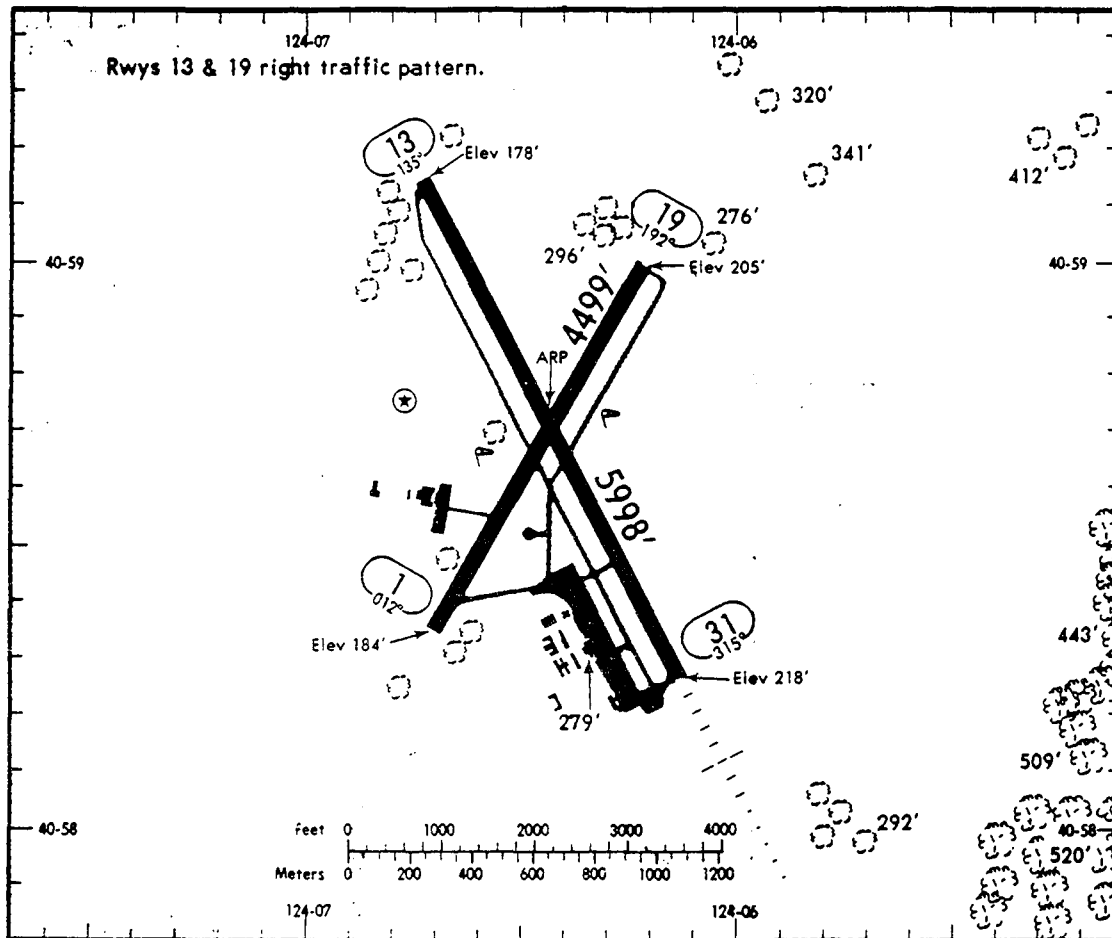
19R 347AD
SNA TD

System Elements	QTY REQ'D
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	3
TRACON	3
NWS	-
Other	-
Total Displays	6

FY 86	REPLACE	R/W 19R
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ARCATA CA (ACV)

AWP



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EXISTINGNEW GENERATION31 347AE

ACV TD
ACVA RO

<u>System Elements</u>		<u>QTY REQ'D</u>
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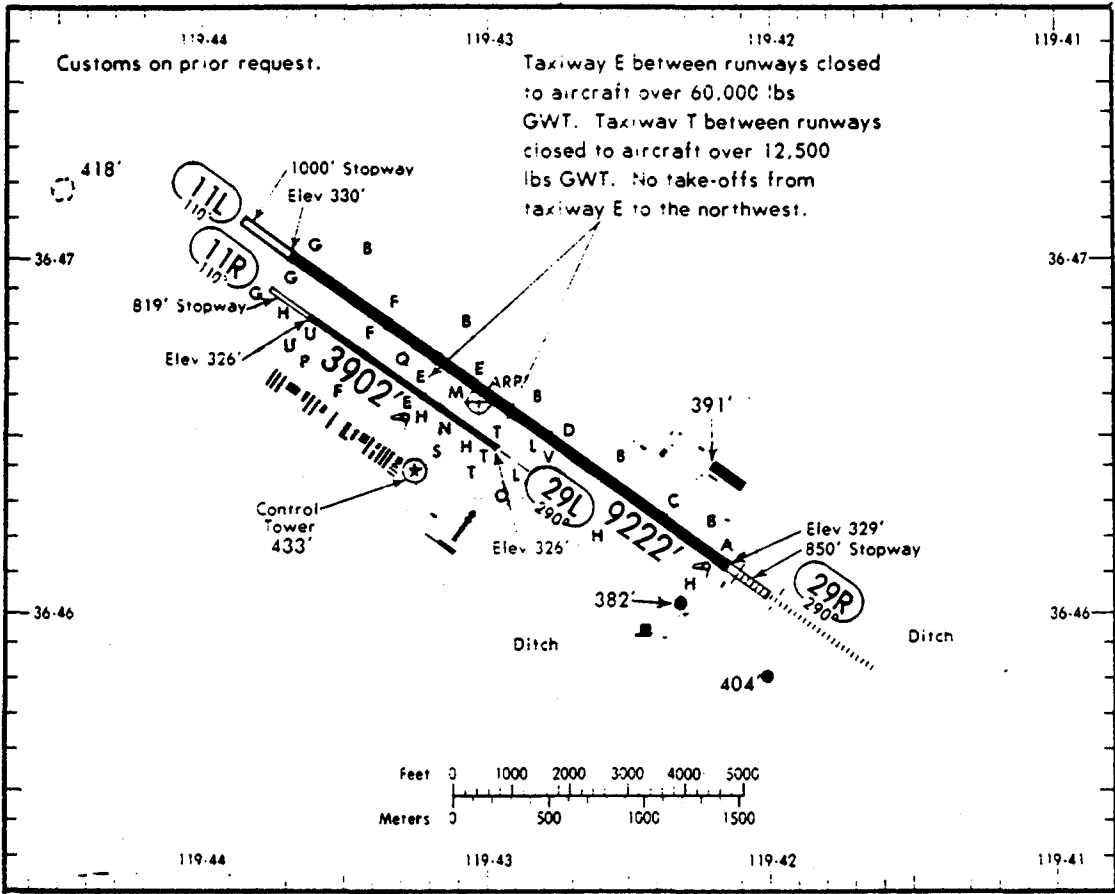
Basic		1
Sensor Packages		1
RLIM		-
Displays		
ATCT	3	
TRACON	-	
NWS	-	
Other	-	

Total Displays	3
----------------	---

FY 93	REPLACE	R/W 31
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FRESNO CA (FAT)

AWP



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EXISTING

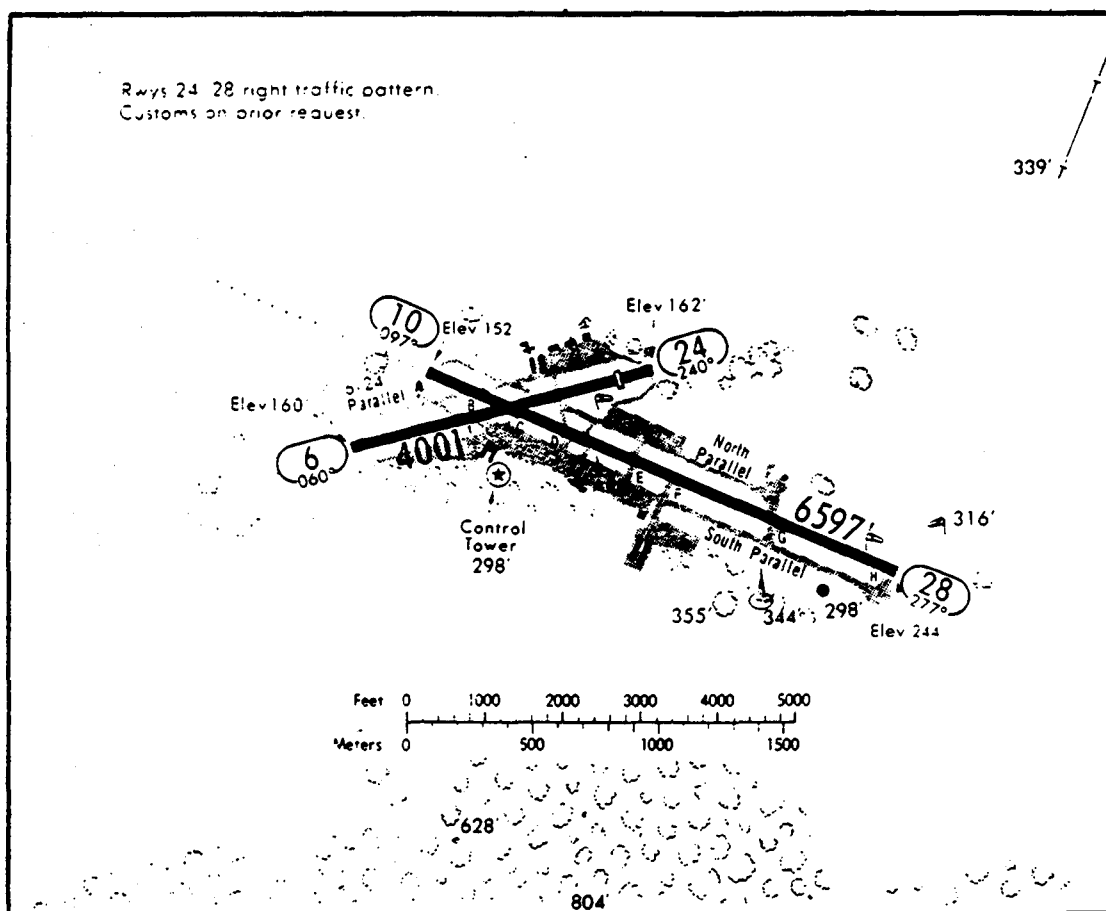
NEW GENERATION

29R	347AE	System Elements	QTY REQ'D
FAT	TD	Basic	1
FATA	RO	Sensor Packages	1
		RLIM	-
		Displays	
		ATCT	2
		TRACON	-
		NWS	-
		Other	-
		Total Displays	2

FY 93	REPLACE	R/W 29R
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MONTEREY CA (MRY)

AWP

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MRY TD

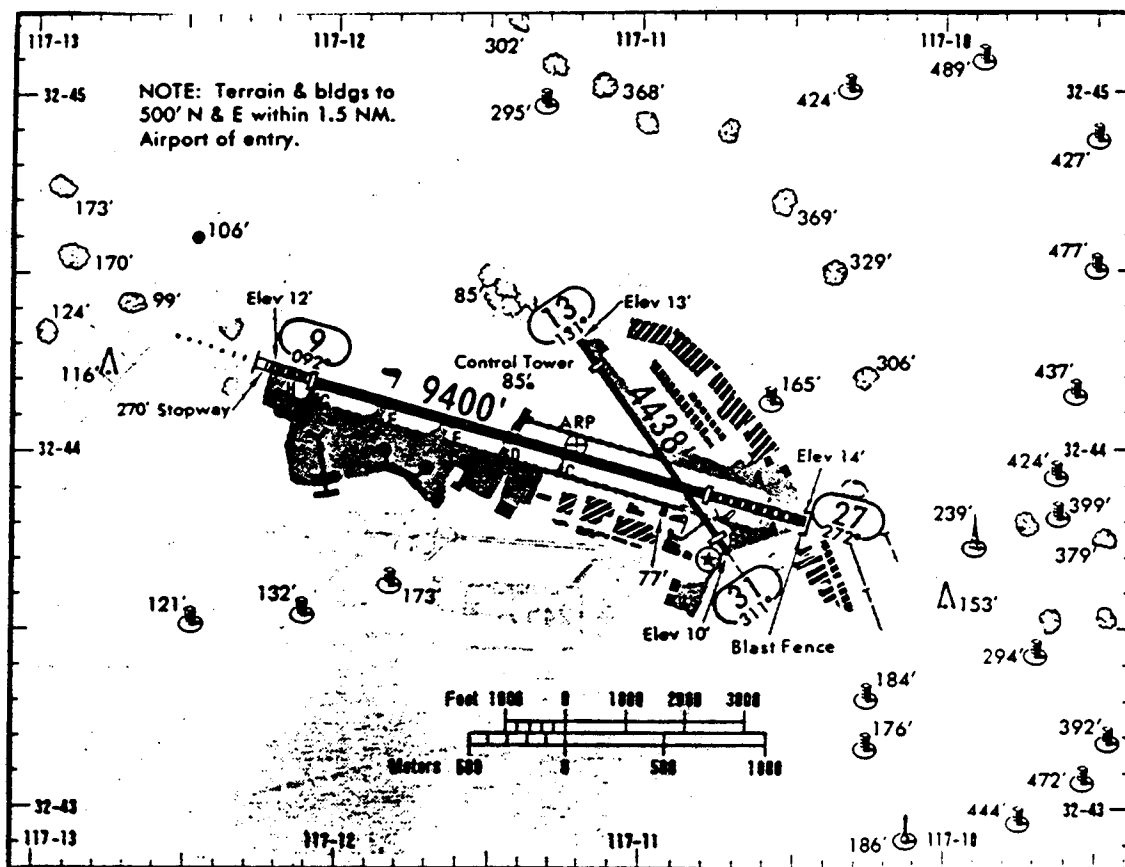
System ElementsQTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	3
TRACON	-
NWS	-
Other	-
Total Displays	3

FY 93	REPLACE	R/W 10
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SAN DIEGO CA (SAN)

AWP



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EXISTING

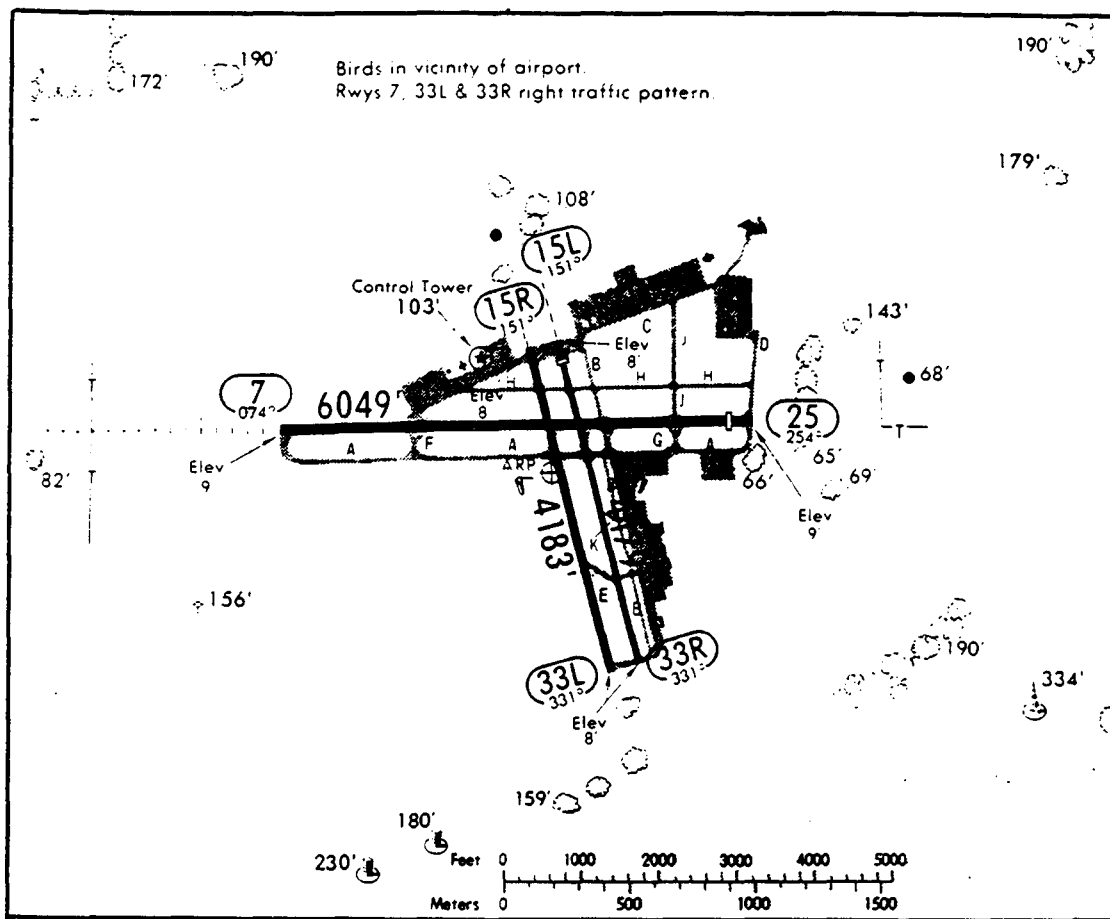
NEW GENERATION

09	<u>347AE</u>	System Elements	<u>QTY REQ'D</u>
SAN	TD	Basic	1
27	<u>347AE</u>	Sensor Packages	1
SANA	TD	RLIM	-
		Displays	
		ATCT	4
		TRACON	-
		NWS	-
		Other	-
		Total Displays	4

FY 93	REPLACE	R/W 09/27
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SANTA BARBARA CA (SBA)

AWP



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EXISTING

NEW GENERATION

13 347AE

SBA	TD
-----	----

System Elements

QTY REQ'D

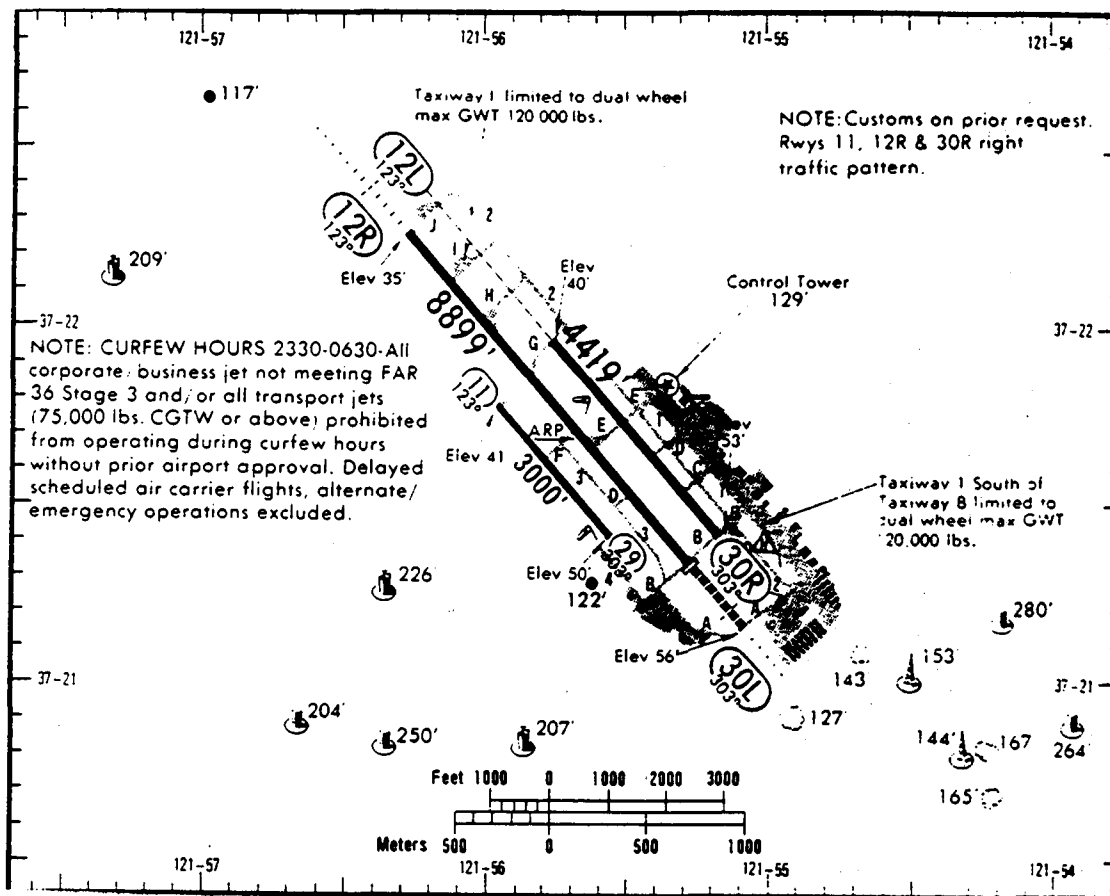
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	1
NWS	-
Other	-

Total Displays **3**

FY 93	REPLACE	R/W 07
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SAN JOSE CA (SJC)

AWP



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EXISTING

NEW GENERATION

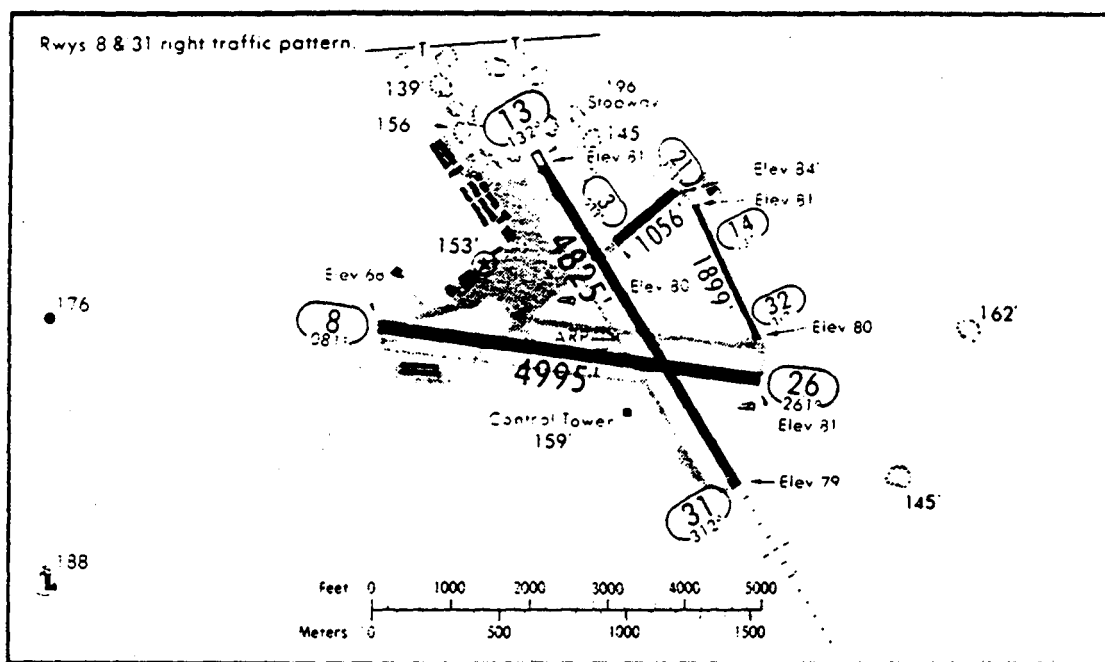
30L 347AE
SJC TD

<u>System Elements</u>	<u>QTY REQ'D</u>
Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	3
TRACON	-
NWS	-
Other	-
Total Displays	3

FY 93	REPLACE	R/W 30L
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SALINAS CA (SNS)

AWP

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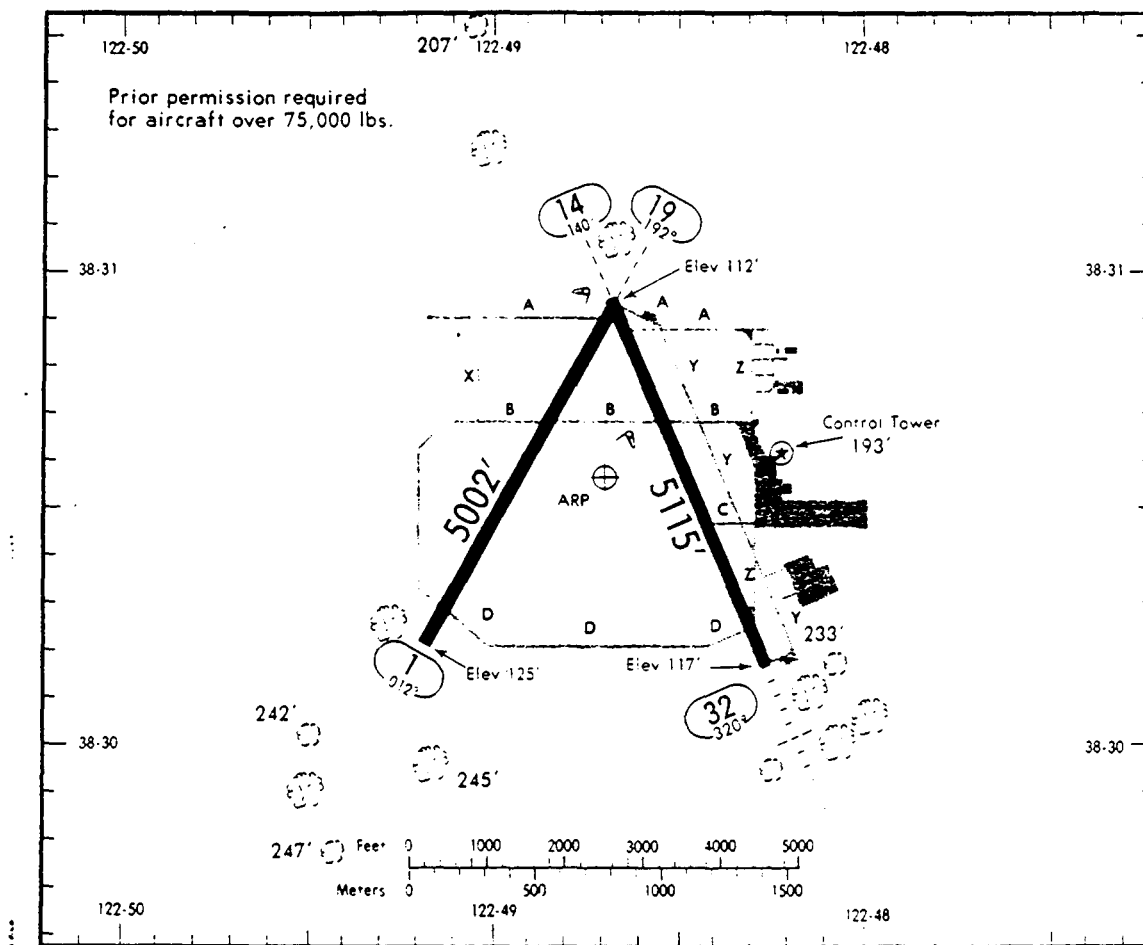
31 347AE
SNS TD

<u>System Elements</u>		<u>QTY REQ'D</u>
Basic		1
Sensor Packages		-
RLIM		-
Displays		
ATCT	4	
TRACON	-	
NWS	-	
Other	-	
Total Displays		4

FY 93	REPLACE	R/W 31
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SANTA ROSA CA (STS)

AWP



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EXISTING

NEW GENERATION

32 347AE

STS TD

System Elements

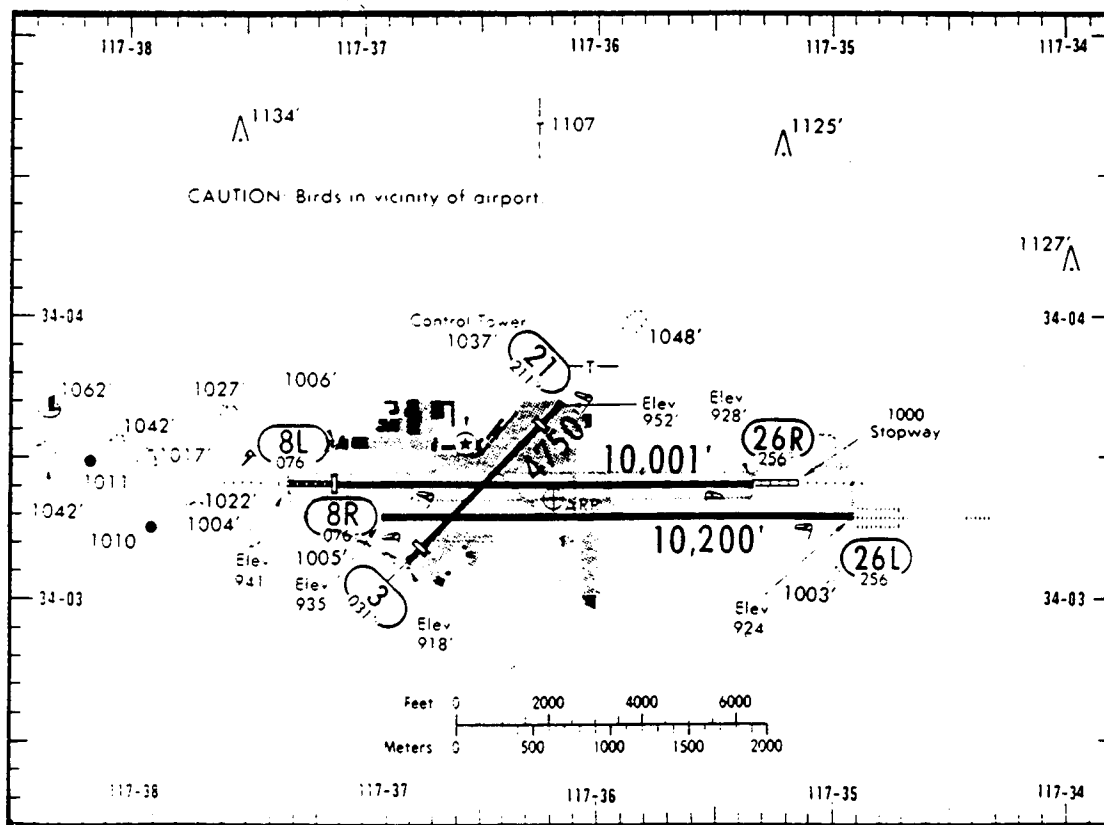
QTY REQ'D

Basic	1
Sensor Packages	-
RLIM	-
Displays	
ATCT	2
TRACON	-
NWS	-
Other	-
Total Displays	2

FY 93	REPLACE	R/W 32
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ONTARIO CA (ONT)

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EXISTINGNEW GENERATION

26L 347AE

TWO TD

TWOA RO

TWOB MP

System Elements	QTY REQ'D
Basic	1
Sensor Packages	2
RLIM	-
Displays	
ATCT	2
TRACON	4
NWS	-
Other	-
Total Displays	6

FY 93	REPLACE	R/W 26L
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