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MOD-OA 200 kW WIND TURBINE GENERATOR ENGINEERING DRAWING REPORT

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SUMMARY

This report provides engineering drawings which document the design of the MOD-OA 200 kW wind turbine generator installed at Clayton, NM. The MOD-OA wind turbine was designed and built by the NASA Lewis Research Center for the U.S. Department of Energy as part of the Federal Wind Energy Program. The objective of the MOD-OA project is to obtain early operation and performance data and experience with horizontal-axis wind turbines in utility environments. The first MOD-OA wind turbine was released to the Town of Clayton Light and Water Plant for utility operation in March 1978.

This report contains the engineering drawings for all mechanical and electrical systems except the blades. Included are drawings for the hub, pitch change mechanism, drive train, nacelle equipment, yaw drive system, tower, foundation, electrical power system, and the control and safety systems.

INTRODUCTION

HISTORY AND BACKGROUND

Wind energy systems have been utilized for centuries as a source of power for a variety of applications. Some of the more recent applications included sailing ships for transportation and wind turbines (windmills) for grinding grain, pumping water, and generating electricity. In the early 1940's, a Smith-Putnam large Horizontal-Axis Wind Turbine (HAWT) was designed and built to feed power into the existing electrical network of the Central Vermont Public Service Company. This machine consisted of a two-bladed 175 foot (53.3 m) diameter rotor which was capable of producing 1.25 MW of power. In addition, Dr. U. Hütter designed and built a 100 kW Wind Turbine Generator (WTG) in West Germany in the late 1950's and gained operating experience with his machine tied to the utility network. The Hütter machine used a downwind 112 foot (34.1 m) diameter two-bladed rotor. Several of the design criteria and design features of the Smith-Putnam and Hütter WTGs were considered or incorporated into the MOD-0 and MOD-0A HAWTs.

RECENT DEVELOPMENTS

The recent national concern over the increase in energy demand and costs of fossil fuels, the dwindling supplies of domestic gas and oil, and the nation's increasing dependence upon imported oil has made it necessary to develop alternate energy sources. Wind energy conversion has long been recognized as a potentially abundant source of electrical power. Utilization of wind energy is becoming more attractive as the cost differential between wind and the more conventional fossil alternative narrows.

A Federal Wind Energy Program originated at the National Science Foundation in 1973. The objective of this program is to accelerate the development of reliable and economically viable wind energy systems and achieve early commercialization. Satisfying this objective requires advancing the technology, developing a sound industrial base, and addressing the non-technological issues which could impede its development. In January 1975, the responsibility for managing the program was transferred to the Energy Research and Development Administration (ERDA). These efforts were continued by the Division of Distributed Solar Technology in the U.S. Department of Energy (DOE) after October 1, 1977.

One segment of the Federal Wind Program is the development of large horizontal-axis WTGs. In 1973, the NASA Lewis Research Center (LeRC) was asked by the National Science Foundation (and later by ERDA and DOE) to develop, and provide project management for, the designs of large, experimental, horizontal-axis WTGs and perform the necessary supporting research and technology development. Initially, a review of prior experience

in WTGs was performed. Then, analytical techniques and computer codes were developed to predict the structural dynamics of large HAWT systems such as the MOD-OA.

MOD-O WIND TURBINE GENERATOR

As part of the federal wind program, NASA LeRC designed, built, and started testing a 100 kW wind turbine in September 1975. This experimental project, designated the MOD-O, had primary objectives of providing the engineering data and serving as a test bed for evaluating advanced wind turbine design concepts. The MOD-O WTG was designed using available technology and "off-the-shelf" components where possible. Design, fabrication, and assembly were completed in 18 months. The MOD-O WTG has a 125 foot (38.1 m) diameter downwind rotor which operates at 40 rpm. The rotor drives a 60 Hz synchronous alternator through a step-up gearbox at 1800 rpm. The MOD-O project has been used to help understand the performance and the dynamic behavior of wind turbines. The MOD-O WTG was utilized to: 1) understand the tower shadow and wind shear effects; 2) assess operational performance; 3) evaluate automatic startup and shutdown capabilities, including synchronization to a large and small utility network; and 4) test various components, such as induction generators and steel spar wind turbine blades.

MOD-OA WIND TURBINE GENERATOR

The MOD-OA 200 kW wind turbine generator is, in most respects, an updated version of the MOD-O 100 kW WTG. The MOD-OA WTG was designed and analyzed by the NASA LeRC for the DOE. The objective of the MOD-OA Project is to conduct early testing of wind turbines in utility environments so that the machine operating performance and dynamic characteristics can be determined. Besides gaining operational experience with wind turbines interfaced with utility networks, an additional objective of the -OA project is obtaining the utility's and the public's reaction to intermediate size WTGs. The prototype MOD-O design was simplified and made "field-worthy" as it was updated to the 200 kW size.

The purpose of this engineering drawing report is to document the design of the MOD-OA 200 kW wind turbine generator at Clayton, NM now being operated by the Town of Clayton Light and Water Plant. This machine was built to NASA drawings and specifications. Updated drawings were subsequently prepared in Westinghouse format to reflect as-built conditions on the Clayton and later machines. These latest drawings are presented here with a cross index to the original NASA drawings.

The MOD-OA wind turbine is shown in operation at the Clayton site in Figure 1. The operational history for the Clayton MOD-OA WTG during its initial phases of use is as follows:

Date	Event
● November 30, 1977	First rotation
● January 19, 1978	First 100 hours (0.36 megaseconds) of operation
● January 28, 1978	Formal dedication of wind turbine
● March 6, 1978	Turned over the operation by the utility
● May 24, 1978	1000 hours (3.6 megaseconds) of operation [94,000 kW-hr (338.GJ)]

SUPPLEMENTARY MOD-OA REPORTS

Two supplementary reports to this MOD-OA engineering drawing report provide the details¹ and an executive summary² of the design and analysis of the MOD-OA wind turbine generator.

¹ Andersen, T.S., Bodenschatz, C.A., Eggers, A.G., Hughes, P.S., Lampe, R.F., Lipner, M.H., and Schornhorst, J.R., "MOD-OA 200 kW Wind Turbine Generator Design and Analysis Report," DOE/NASA/O163-2, NASA CR-165128, and AESD-TME-3052, August 1980.

² Andersen, T.S., Bodenschatz, C.A., Eggers, A.G., Hughes, P.S., Lampe, R.F., Lipner, M.H., and Schornhorst, J.R., "Executive Summary. MOD-OA 200 kW Wind Turbine Generator Design and Analysis Report," DOE/NASA/O163-1, NASA CR-165127, and AESD-TME-3051, August 1980.



Figure 1. MOD-0A 200 kW Wind Turbine
Generator; Clayton, NM

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DISCUSSION

The MOD-OA engineering drawings follow this discussion in numerical order (by Westinghouse drawing number). The mechanical drawings (Westinghouse drawings 1015F-- and 1017F--) are followed by the electrical drawings (1016F--). Table 1 provides a list of drawings and title in this order with cross-reference to the number and title of the NASA drawings from which the Westinghouse drawings were prepared. The NASA drawings formed the basis for assembly and installation of the MOD-OA wind turbine generators and are listed in numerical order in Table 2 with cross reference to the number and title of the corresponding Westinghouse drawings.

TABLE 1
 LIST OF DRAWINGS FOR THE MOD-0A 200 kW WIND TURBINE GENERATOR
 CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	MASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	*REV.	TITLE OF DRAWING
1015F01	11	CR758862 CR758863	1 1	K G	(NASA) MOD-0A 200 kW WIND TURBINE GENERATOR ASSEMBLY (NASA) MOD-0A 200 kW WIND TURBINE GENERATOR ASSEMBLY (W) ASSEMBLY MOD-0A 200 kW WIND TURBINE GENERATOR
1015F02	1	CD758836	1	A	(NASA) HUB FORGING (W) HUB PITCH FORGING MOD-0A 200 kW WIND TURBINE GENERATOR
1015F03	4	CR758864 CD758875	1 1	D C	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB (NASA) SUB-ASSEMBLY BEARING & GEAR ADJUSTMENT (W) PITCH CONTROL HUB ASS'Y MOD-0A 200 kW WIND TURB. GEN.
1015F04	1	CF758865	1	B	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 1 (W) HUB PITCH DETAIL MOD-0A 200 kW WIND TURBINE GENERATOR
1015F05	1	CD758866	1	A	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 2 (W) BLADE SPINDLE SLEEVE MOD-0A 200 kW WIND TURBINE GEN.
1015F06	1	CD758867	1	D	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 3 (W) BLADE SPINDLE HOUSING MOD-0A 200 kW WIND TURBINE GEN.
1015F07	1	CD758868	1	C	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 4 (W) DRIVE SHAFT BEARING RETAINER MOD-0A 200 kW WTG
1015F08	1	CD758869	1	B	(NASA) ASS'Y-GEAR TYPE PITCH CONTROL HUB-DETAILS 5 THRU 11 (W) HUB PITCH DETAILS MOD-0A 200 kW WIND TURBINE GENERATOR
1015F09	1	CD758870	1	B	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 12 (W) HUB PITCH DRIVE SHAFT MOD-0A 200 kW WIND TURBINE GEN.
1015F10	1	CD758872	1	C	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 15 (W) HUB PITCH BEVEL PINION GEAR MOD-0A 200 kW WTG
1015F11	1	CD758873	1	C	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 16 (W) HUB PITCH BEVEL GEAR SECTOR MOD-0A 200 kW WTG

*All Westinghouse Drawings are Revision - (i.e., Unrevised)

TABLE 1 (Cont'd.)
 LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
 CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV.	TITLE OF DRAWING
1015F12	1	CF758874	1	C	(NASA) ASS'Y-GEAR TYPE PITCH CONTROL HUB-DETAILS 17 THRU 25 (W) HUB PITCH DETAILS MOD-OA 200 kW WIND TURBINE GENERATOR
1015F13	1	NONE	-	-	(W) GENERAL OUTLINE MOD-OA 200 kW WIND TURBINE GENERATOR
1015F14	6	CR758877	1	E	(NASA) BEDPLATE (W) BEDPLATE MOD-OA 200 kW WIND TURBINE GENERATOR
1015F15	3	CR758878	1	D	(NASA) FWD CENTER SHROUD (W) FORWARD CENTER SHROUD MOD-OA 200 kW WIND TURBINE GEN.
1015F16	4	CR758879	1	E	(NASA) REAR CENTER SHROUD (W) REAR CENTER SHROUD MOD-OA 200 kW WIND TURB. GENERATOR
1015F17	1	CF758880	1	A	(NASA) NOSE COME (W) NOSE COME MOD-OA 200 kW WIND TURBINE GENERATOR
1015F18	1	CF758881	1	C	(NASA) PROP COME (W) PROP COME (SPINNER) MOD-OA 200 kW WIND TURBINE GEN.
1015F19	1	CD758882	1	B	(NASA) PROP HUB & COME COVER PLATE (W) BLADE OPENING COVERS MOD-OA 200 kW WIND TURBINE GEN.
1015F20	1	CD758883	1	-	(NASA) COME SUPPORT DETAILS (W) COME SUPPORT DETAILS MOD-OA 200 kW WIND TURBINE GEN.
1015F21	1	CD758884	1	A	(NASA) FRONT HUB SUPPORT (W) MOUNTING PANEL-PROP COME MOD-OA 200 kW WIND TURB. GEN.
1015F22	1	CD758885	1	-	(NASA) REAR HUB SUPPORT (W) SUPPORT-PROP COME MOD-OA 200 kW WIND TURBINE GENERATOR
1015F23	2	CF758886	1	C	(NASA) WALKWAYS (W) WALKWAYS MOD-OA 200 kW WIND TURBINE GENERATOR
1015F24	1	CF758887	1	A	(NASA) ADJ. GENERATOR BOTTOM PLATE (W) BOTTOM PLATE-GENERATOR ADJUSTMENT MOD-OA 200 kW WTG

ALL Westinghouse Drawings are Revision -

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TABLE 1 (Cont'd.)
 LIST OF DRAWINGS FOR THE MOD-0A 200 kW WIND TURBINE GENERATOR
 CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV.	TITLE OF DRAWING
1015F25	1	CF758888	1	A	(NASA) ADJ. GEN. TOP & LOCK BAR (W) GENERATOR ADJUSTMENT DETAILS
1015F26	1	CF758889	1	C	(NASA) DETAILS (W) DETAILS MOD-0A 200 kW WIND TURBINE GENERATOR
1015F27	1	CF758890	1	C	(NASA) MAIN DRIVE SHAFT (W) MAIN DRIVE SHAFT MOD-0A 200 kW WIND TURBINE GENERATOR
1015F28	1	CD758892	1	-	(NASA) BRAKE SUPPORT (W) BRAKE SUPPORT MOD-0A 200 kW WIND TURBINE GENERATOR.
1015F29	1	CD758895	1	-	(NASA) PULLEY DRIVE SHAFT (W) PULLEY DRIVE SHAFT MOD-0A 200 kW WIND TURB. GENERATOR
1015F30	2	CR758896	1	E	(NASA) MAIN YAW BRG SUPPORT (W) MAIN YAW BRG SUPPORT MOD-0A 200 kW WIND TURBINE GEN.
1015F31	1	CF758897	1	A	(NASA) YAW DRIVE BRG HOUSING (W) YAW DRIVE BRG HOUSING MOD-0A 200 kW WIND TURBINE GEN.
1015F32	1	CF758898	1	-	(NASA) YAW DRIVE SHAFT (W) YAW DRIVE SHAFT MOD-0A 200 kW WIND TURBINE GENERATOR
1015F33	1	CF758899	1	-	(NASA) YAW BRG RETAINER & SEAL (W) YAW-BRG RETAINERS MOD-0A 200 kW WIND TURBINE GENERATOR
1015F34	1	CD758900	1	A	(NASA) INTER. YAW DRIVE SHAFT (W) INTERMEDIATE YAW DRIVE SHAFT MOD-0A 200 kW MTG
1015F35	1	CD758901	1	B	(NASA) YAW DRIVE MOUNTING (W) YAW DRIVE MOUNTING PLATE MOD-0A 200 kW WIND TUR. GEN.
1015F36	1	CD758902	1	C	(NASA) SHEAR KEY & THRUST BUTTON (W) SHEAR KEY & THRUST BUTTON MOD-0A 200 kW WIND TUR. GEN.
1015F37	1	CC758903	1	B	(NASA) MAIN SLIP RING SUPPORT HORIZ. (W) MAIN SLIP RING SUPPORT (HORIZ.) MOD-0A 200 kW MTG

* All Westinghouse Drawings are Revision -

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TABLE 1 (Cont'd.)
 LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
 CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV.	TITLE OF DRAWING
1015F38	2	EF758904	1	C	(NASA) BREAK PRESS. SYST. (W) PIPING SCHEMATIC & PANEL LAYOUT BREAK CHAMBER & PRESSURIZING SYSTEM MOD-OA 200 kW WIND TURBINE GENERATOR
1015F39	1	CC758905 CC758907 CC758931	1 1 1	- - A	(NASA) LIFTING BOOM (NASA) "U" BOLT - BOTTLE HOLD DOWN (NASA) WIND SPEED MOUNTING BRACKET (W) LIFTING BOOM, U-BOLT & WIND SPEED & DIRECTIONAL MOUNT- BRACKET MOD-OA 200 kW WIND TURBINE GENERATOR
1015F40	1	CD758906	1	-	(NASA) HYD PACK SUPPORT BED (W) HYDRAULIC PACKAGE SUPPORT BED MOD-OA 200 kW WTG
1015F41	1	CD758909	1	B	(NASA) LIFTING BEAM & SLING ASSEMBLY (W) LIFTING BEAM & SLING ASSEMBLY MOD-OA 200 kW WTG
1015F42	1	CD758908	1	A	(NASA) HYD. PACK FAN SHROUD (W) HYDRAULIC PACKAGE FAN SHROUD MOD-OA 200 kW WTG
1015F43	3	CR758975 CR758976	1 1	A C	(NASA) SENSOR LOCATION (PLAN VIEW) (NASA) SENSOR LOCATION (ELEVATION VIEW) (W) SENSOR LOCATIONS & CONDUIT ROUTING MOD-OA 200 kW WTG
1015F44	1	CF758910	1	B	(NASA) DETAILS (W) HIGH SPEED BRADE DETAILS MOD-OA 200 kW WIND TURB. GEN.
1015F45	1	CF758912	1	A	(NASA) ROTARY COUPLING SUPPORT (W) DEUBLIN CPLG SUPPORT BRACKET MOD-OA 200 kW WTG
1015F46	1	CD758913	1	B	(NASA) LADDER (W) LADDER WELDED ASSEMBLY MOD-OA 200 kW WIND TURB. GEN.
1015F47	1	CF758914	1	-	(NASA) REAR PROP COME SUPPORTS (W) REAR PROP COME SUPPORT MOD-OA 200 kW WIND TURBINE GEN.
1015F48	1	CD758915	1	A	(NASA) HYD SUPPLY CLAMP & SUPPORTS (W) HYDRAULIC SUPPLY CLAMP & SUPPORT MOD-OA 200 kW WTG

* All Westinghouse Drawings are Revision -

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TABLE 1 (Cont'd.)

LIST OF DRAWINGS FOR THE MOD-OA 200 KW WIND TURBINE GENERATOR
CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV.	TITLE OF DRAWING
1015F49	2	CF758916	1	C	(NASA) CO AXIAL FLOW LINE ASSEMBLY (W) CO AXIAL FLOW LINE - ASSEMBLY & DETAIL MOD-OA 200 KW WIND TURBINE GENERATOR
1015F50	1	CD758919	1	A	(NASA) SPINNER RAIN GUARD (W) SPINNER RAIN GUARD MOD-OA 200 KW WIND TURBINE GENERATOR
1015F51	1	CF758920	1	A	(NASA) SLIP RING ANTI-ROTATION SUPPORT & BRKT. (W) SLIP RING ANTI-ROTATION SUPPORT & BRKT. MOD-OA 200 KW WIND TURBINE GENERATOR
1015F52	3	CF758921 CF758922 CF758923	1 1 1	A A -	(NASA) HYDRAULIC PUMP PACKAGE ASSEMBLY (W) HYDRAULIC PUMP PACKAGE ASSY MOD-OA 200 KW MTG
1015F53	2	CF758924	1	-	(NASA) DETAILS (W) HYDRAULIC PUMP PACKAGE ASSY MOD-OA 200 KW MTG
1015F54	1	CR758926	1	-	(NASA) DETAILS (W) HYDRAULIC PUMP DETAILS MOD-OA 200 KW WIND TURB. GEN.
1015F55	4	CR758926	1	B	(NASA) ACTUATOR ASSEMBLY (W) ACTUATOR ASSEMBLY MOD-OA 200 KW WIND TURB. GEN.
1015F56	1	CF758927	1	A	(NASA) DETAILS (W) ACTUATOR ASSY DETAILS MOD-OA 200 KW WIND TURB. GEN.
1015F57	1	CF758928	1	A	(NASA) DETAILS (W) ACTUATOR ASSY DETAILS MOD-OA 200 KW WIND TURB. GEN.
1015F58	1	CF758929 CP758929	1	B -	(NASA) HYDRAULIC SCHEMATIC DIAGRAM (NASA) OPERATIONAL REQUIREMENTS & PARTS LIST (W) CONTROL SCHEMATIC DIAGRAM MOD-OA 200 KW MTG
1015F59	1	CF758930	1	B	(NASA) INTERFACE-METAL BLADE TO PITCH CONTROL HUB (W) INTERFACE-BLADE TO HUB MOD-OA 200 KW WIND TURBINE GEN.
1015F60	1	None			(NASA) NONE (W) DETAILS MOD-OA 200 KW MTG

All Westinghouse Drawings are Revision -

TABLE 1 (Cont'd.)
LIST OF DRAWINGS FOR THE MOD-0A 200 kW WIND TURBINE GENERATOR
CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	* REV.	TITLE OF DRAWING
1015F61	1	CD758932	1	A	(NASA) UPPER BRAKE SUPPORT (W) UPPER BRAKE SUPPORT MOD-0A 200 kW WIND TURBINE GEN.
1015F62	1	CD758933	1	-	(NASA) TURNTABLE BEARING & GEAR ASSY (W) TURNTABLE BRG & GEAR ASSY MOD-0A 200 kW WIND TURB. GEN.
1015F63	1	CD758934	1	C	(NASA) LIFTING BEAM (W) LIFTING BEAM DETAILS MOD-0A 200 kW WIND TURBINE GEN.
1015F64	1	CF758936	1	A	(NASA) EXTERIOR FINISH-FIBERGLAS HOUSING (W) EXTERIOR FINISH-FIBERGLAS HOUSING MOD-0A 200 kW WTG
1015F65	1	CB758490 CC758937	1 1	A B	(NASA) BUTTRES RING RETAINER (NASA) TRANSFORMER BRACKETS (W) TRANSFORMER ANTI-ROTATION BRACKET & BUTTRES RING RETAINER DETAILS MOD-0A 200 kW WIND TURBINE GENERATOR
1015F66	1	CD758938	1	-	(NASA) OUTPUT SHAFT CONFIGURATION FOR DOUBLE REDUCTION WORM GEAR UNIT (W) DOUBLE REDUCTION WORM GEAR UNIT YAW DRIVE MOD-0A 200 kW WIND TURBINE GENERATOR
1015F67	1	CF758939	1	A	(NASA) TOWER SLIP RING ANTI-ROTATION ASSEMBLY (W) TOWER SLIP RING ANTI-ROTATION ASSY MOD-0A 200 kW WTG
1015F68	1	CC758871 CC758945	1 1	A A	(NASA) DETAILS (NASA) BUTTRES RING (W) DETAIL MOD-0A 200 kW WIND TURBINE GENERATOR
1015F69	1	CF758946	1	B	(NASA) MOD 0A WIND TURBINE GENERATOR SITE PLAN & GENERAL ASSY (W) SITE PLAN & GENERAL ASSY MOD-0A 200 kW WIND TURBINE GEN.
1015F70	4	CF758948 CF758949 CF758950	1 1 1	B A A	(NASA) STRUCTURAL-TOWER ELEVATION & DETAILS (NASA) STRUCTURAL-TOWER PLANS & DETAILS (NASA) STRUCTURAL-TOWER DETAILS (W) TOWER ELEVATIONS, PLAN & DETAILS MOD-0A 200 kW WTG
1015F71	2	CF758952	1	-	(NASA) STRUCTURAL-ASSEMBLY STAND PLAN & DETAILS (W) ASSY STAND PLAN & DETAILS MOD-0A 200 kW WIND TURB. GEN.

ALL Westinghouse Drawings are Revision -

TABLE 1 (Cont'd.)
 LIST OF DRAWINGS FOR THE MOD-0A 200 kW WIND TURBINE GENERATOR
 CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV.	TITLE OF DRAWING
1015F72	1	CD758957	1	B	(NASA) SPEED INCREASER-DIMENSIONAL REQUIREMENTS (W) SPECIAL SPEED INCREASER MOD-0A 200 kW WIND TURBINE
1015F73	1	CC758972	1	A	(NASA) GEAR BOX SLIP RING ASSEMBLY (W) GEAR BOX SLIP RING ASSEMBLY-ELECTRICAL MOD-0A 200 kW WIND TURBINE GENERATOR
1015F74	1	CF758973	1	A	(NASA) TOWER SLIP RING ASSY-ELECTRICAL (W) TOWER SLIP RING ASSY (ELEC) MOD-0A 200 kW WTG
1015F75	1	CF758974	1	B	(NASA) TOWER SLIP RING ASSY-ELECTRICAL (W) TOWER SLIP RING ASSY (ELEC) MOD-0A 200 kW WTG
1015F76	2	CF758981	1	B	(NASA) ELECTRICAL-EQUIPMENT LAYOUT, LIGHTING, GROUNDING & DETAILS (W) ELECTRICAL-EQUIPMENT LAYOUT, LIGHTING, GROUNDING & DETAILS MOD-0A 200 kW WIND TURBINE GENERATOR
1015F77	2	CF758982	1	B	(NASA) ELECTRICAL-POWER CONTROL & INSTRUMENTATION TERMINAL BOXES & DETAILS (W) ELECTRICAL-POWER CONTROL & INSTRUMENTATION TERMINAL BOXES & DETAILS MOD-0A 200 kW WIND TURBINE GENERATOR
1015F78	1	CD758999	1	-	(NASA) INTERMEDIATE SHAFT (W) HIGH SPEED SHAFT ASSEMBLY MOD-0A 200 kW WIND TURB. GEN.
1015F79	1	CF758973 CF758974	1 1	A B	(NASA) TOWER SLIP RING ASSY-ELECTRICAL (NASA) TOWER SLIP RING ASSY-ELECTRICAL (W) TOWER SLIP RING ASSY MOD-0A 200 kW WIND TURBINE GEN.
1015F80	3	CF759019 CF760485	1 1	G A	(NASA) HYDRAULIC SCHEMATIC YAW BRAKE (NASA) HYDRAULIC SYSTEM PANEL YAW BRAKE (W) YAW BRAKE HYDRAULIC SYSTEM PANEL & SCHEMATIC MOD-0A 200 kW WIND TURBINE GENERATOR
1015F81	1	CC759020 CC760504	1 1	- B	(NASA) SPACERS YAW COUPLINGS (NASA) HUB SEAL HOLDER (W) DETAILS MOD-0A 200 kW WIND TURBINE GENERATOR

* All Westinghouse Drawings are Revision -

TABLE 1 (Cont'd.)
 LIST OF DRAWINGS FOR THE MOD-0A 200 kW WIND TURBINE GENERATOR
 CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	MASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV.	TITLE OF DRAWING
1015F82	1	CF759021	1	-	(NASA) PULLEY BEARING SUPPORT (W) PULLEY BEARING SUPPORT MOD-0A 200 kW WIND TURB. GEN.
1015F83	1	CD759023	1	A	(NASA) DETAILS FOR HYDRAULIC ACTUATOR (W) DETAILS FOR HYDRAULIC ACTUATOR MOD-0A 200 kW MTG
1015F84	1	CF759024	1	A	(NASA) DETAILS FOR PUMP PACKAGE (W) PUMP PACKAGE DETAILS MOD-0A 200 kW WIND TURBINE GEN.
1015F85	2	CF760271	1	A	(NASA) STRUCTURAL-ASSY STAND PLAN & DETAILS (W) ASSY STAND PLAN & DETAILS MOD-0A 200 kW WIND TURB. GEN.
1015F86	2	CF760300	1	-	(NASA) STRUCTURAL-TOWER & ASSY STAND-FOUNDATIONS & DETAILS- CLAYTON N.H. (W) TOWER & ASSY STAND FOUNDATION & DETAILS MOD-0A 200 kW WIND TURBINE GENERATOR
1015F87	1	CC760476	1	-	(NASA) GREASE & PRESSURE FITTINGS (W) GREASE & PRESSURE FITTINGS MOD-0A 200 kW MTG
1015F88	1	CD760477	1	-	(NASA) HUB COUNTER WEIGHTS (W) HUB COUNTER WEIGHTS MOD-0A 200 kW WIND TURBINE GEN.
1015F89	1	CF760478	1	-	(NASA) DETAILS (W) DETAILS MOD-0A 200 kW WIND TURBINE GENERATOR
1015F90	1	CF760484	1	A	(NASA) HYDRAULIC SYSTEM PANEL YAW BRAKE (W) HYDRAULICS COMPONENTS MTG PANEL MOD-0A 200 kW MTG
1015F91	1	CF760484	1	A	(NASA) HYDRAULIC SYSTEM PANEL YAW BRAKE (W) HYDRAULIC SYSTEM PANEL YAW BRAKE-STRUCTURAL SUPPORT MOD-0A 200 kW WIND TURBINE GENERATOR
1015F92	1	CD760486	1	A	(NASA) AIR BOTTLE GAGE BRACKET (W) AIR BOTTLE GAGE BRACKET DETAILS MOD-0A 200 kW MTG

* All Westinghouse Drawings are Revision -

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Table 1 (Cont'd)

LIST OF DRAWINGS FOR THE MOD-0A 200 kW WIND TURBINE GENERATOR
CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV.	TITLE OF DRAWING
1015F93	1	CC759000 CC760487	1	A -	(NASA) FLUID COUPLER ADAPTER (NASA) GEAR ALT. LOW SPEED SHAFT (W) DETAILS MOD-0A 200 kW WIND TURBINE GENERATOR
1015F94	1	CC760488 CC760500	1	A -	(NASA) DUBLIN MOUNT (NASA) SLIP RING COVER (W) DUBLIN MOUNT & SLIP RING DUST COVER MOD-0A 200 kW MTG
1015F95	2	CF760506 CF760520	1	- -	(NASA) ELECTRICAL-LOW SPEED SHAFT STRAIN GAGE LOCATION CONNECTION DIAGRAM & INSTALLATION (NASA) ELECTRICAL-LOW SPEED SHAFT STRAIN GAGE LOCATION (W) ELECTRICAL-LOW SPEED SHAFT STRAIN GAGE LOCATION MOD-0A 200 kW WIND TURBINE GENERATOR
1015F96	1	CF760491	1	-	(NASA) YAW BRAKE ASSEMBLY (W) YAW BRAKE ASSY MOD-0A 200 kW WIND TURBINE GENERATOR
1015F97	1	C0760492	1	-	(NASA) YAW BRAKE DETAILS (W) YAW BRAKE DETAIL MOD-0A 200 kW WIND TURBINE GENERATOR
1015F98	1	C0760493	1	-	(NASA) YAW BRAKE DETAILS (W) YAW BRAKE DETAIL MOD-0A 200 kW WIND TURBINE GENERATOR
1015F99	1	CC760512 C0760513	1	- -	(NASA) FIXTURE FOR SEAL INSTALLATION (NASA) SEAL INSTALLATION INSTRUCTIONS (W) FIXTURES FOR SEAL INSTALLATION MOD-0A 200 kW MTG
1017F02	1	NONE			(NASA) NONE (W) GENERATOR TACH MOUNT ASSY WITH KEYS & DETAILS MOD-0A 200 kW WIND TURBINE GENERATOR
1017F03	2	NONE			(NASA) NONE (W) DETAILS MOD-0A 200 kW WIND TURBINE GENERATOR

*All Westinghouse Drawings are Revision -

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TABLE 1 (Cont'd.)

LIST OF DRAWINGS FOR THE MOD-OA 200 KW WIND TURBINE GENERATOR
CORRELATION OF WESTINGHOUSE DRAWINGS TO MASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	MASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV.	TITLE OF DRAWING
1017F04	1	NONE			(MASA) NONE (W) DETAILS MOD-OA 200 KW WIND TURBINE GENERATOR
1017F05	1	NONE			(MASA) NONE (W) HYDRAULIC FITTINGS MOD-OA 200 KW WIND TURBINE GENERATOR
1016F01	4	CF758968 CF758969 CF758970	1 1 1	C E C	(MASA) ELECTRICAL-INSTRUMENTATION SENSOR WIRING LIST (MASA) ELECTRICAL-INSTRUMENTATION SENSOR WIRING LIST (MASA) ELECTRICAL-INSTRUMENTATION SENSOR WIRING LIST (W) INSTRUMENTATION SENSOR WIRING LIST MOD-OA 200 KW WTG
1016F02	1	CF758971	1	E	(MASA) ELECTRICAL-POWER ONE LINE CONNECTION DIAGRAM & SCHEDULE OF DMG. (W) POWER ONE LINE CONNECTION DIAGRAM SCHEDULE OF DMG'S MOD-OA 200 KW WIND TURBINE
1016F03	1	CF758977	1	C	(MASA) ELECTRICAL-AUXILIARY ELECTRONIC PACKAGE CONNECTION & INTERCONNECTION DIAGRAM (W) AUXILIARY ELECTRONIC PACKAGE CONNECTION & INTERCONNECTION DIAGRAM MOD-OA 200 KW WIND TURBINE
1016F04	2	CF758978	1	D	(MASA) ELECTRICAL-SENSOR IDENTIFICATION LIST (CLAYTON) (W) SENSOR IDENTIFICATION LIST MOD-OA 200 KW WIND TURBINE
1016F05	1	CF758979	1	F	(MASA) ELECTRICAL-CABLE INTERCONNECTION (W) ELECTRICAL-CABLE INTERCONNECTION MOD-OA 200 KW WTG
1016F06	1	CF758980	1	-	(MASA) ELECTRICAL-INSTRUMENTATION INTERCONNECTION DIAGRAM PHASE I TEST (W) INSTRUMENTATION INTERCONNECTION DIAGRAM LERC-ERB CM 72 PHASE I TEST MOD-OA 200 KW WIND TURBINE GENERATOR
1016F07	1	CF758983	1	C	(MASA) ELECTRICAL-GEAR BOX SLIP RING CONNECTION DIAGRAM (W) GEAR BOX SLIP RING CONNECTION DIAGRAM MOD-OA 200 KW WTG
1016F08	1	CF758984	1	G	(MASA) ELECTRICAL-TOWER SLIP RING CONNECTION DIAGRAM (W) TOWER SLIP RING CONNECTION DIAGRAM MOD-OA 200 KW WTG

* All Westinghouse Drawings are Revision -

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TABLE 1 (Cont'd.)
 LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
 CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV.	TITLE OF DRAWING
1016F09	1	CF758985	1	A	(NASA) ELECTRICAL-STATIC SHAFT TEST INTERCONNECTION DIAGRAM (W) PHASE I TEST (W) STATIC SHAFT TEST INTERCONNECTION DIAGRAM LERC-ERB (W) 22 PHASE I TEST MOD-OA 200 kW WIND TURBINE GENERATOR
1016F10	1	CF759025	1	C	(NASA) ELECTRICAL-TOWER SENSOR LOCATION PLAN, DETAILS, PIN LAYOUT & ELECTRICAL CONNECTION DIAGRAM (W) TOWER SENSOR LOCATION PLAN DETAILS, PIN LAYOUT & ELECTRICAL CONNECTION DIAG. MOD-OA 200 kW WIND TURBINE
1016F11	2	CF759026	1	E	(NASA) ELECTRICAL SAFETY SHUTDOWN-ELEMENTARY DIAGRAM (W) ELECTRICAL SAFETY SHUTDOWN-ELEMENTARY DIAGRAM MOD-OA 200 kW WIND TURBINE GENERATOR
1016F12	2	CF759027	1	F	(NASA) ELECTRICAL-CONTROL ELEMENTARY DIAGRAM (W) CONTROL ELEMENTARY DIAGRAM MOD-OA 200 kW MTG
1016F13	1	CF759028	1	D	(NASA) ELECTRICAL-YAW CONTROLLER CONNECTION DIAGRAM (W) YAW CONTROLLER CONNECTION DIAGRAM MOD-OA 200 kW MTG
1016F14	1	CF759029	1	A	(NASA) ELECTRICAL-MICRO PROCESSOR FLOW DIAGRAM (W) MICRO PROCESSOR FLOW DIAGRAM MOD-OA 200 kW MTG
1016F15	1	CF759030	1	C	(NASA) ELECTRICAL-CONNECTION DIAGRAM FOR PITCH CONTROLLER (W) ELECTRICAL CONNECTION DIAGRAM PITCH CONTROLLER MOD-OA 200 kW WIND TURBINE GENERATOR
1016F16	1	CF759031	1	E	(NASA) ELECTRICAL-MICRO PROCESSOR BLOCK DIAGRAM (W) MICROPROCESSOR BLOCK DIAGRAM MOD-OA 200 kW MTG
1016F17	1	CF759032	1	E	(NASA) ELECTRICAL-SUPERVISORY CONTROLLER INTERCONNECTION CENTRAL & REMOTE (W) SUPERVISORY CONTROLLER INTERCONNECT CENTRAL & REMOTES STATIONS & DETAIL "A" MOD-OA 200 kW WIND TURBINE GENERATOR
1016F18	2	CF759033	1	E	(NASA) ELECTRICAL-PITCH CONTROLLER SCHEMATIC (W) PITCH CONTROLLER SCHEMATIC MOD-OA 200 kW WIND TURBIN

* All Westinghouse Drawings are Revision -

TABLE 1 (Cont'd.)
 LIST OF DRAWINGS FOR THE MOD-0A 200 kW WIND TURBINE GENERATOR
 CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV.	TITLE OF DRAWING
1016F19	2	CF759034	1	F	(NASA) ELECTRICAL-CONTROL PANEL LAYOUTS & RELAY PANEL CONNECTION DIAGRAMS (W) CONTROL PANEL LAYOUTS & RELAY PANEL CONNECTION DIAGRAMS MOD-0A 200 kW MTG
1016F20	7	CF759035 CF759036 CF759037 CF759038 CF759039	1 1 1 1 1	C E F E F	(NASA) ELECTRICAL-480 V SWITCHGEAR ONE LINE DIAGRAM (NASA) ELECTRICAL-480 V SWITCHGEAR-ELEMENTARY 3 LINE DIAGRAM (NASA) ELECTRICAL-480 V SWITCHGEAR-UNIT NO. 1 CONNECTION DIA. (NASA) ELECTRICAL-480 V SWITCHGEAR-UNIT NO. 2 CONNECTION DIA. (NASA) ELECTRICAL-480 V SWITCHGEAR-UNIT NO. 3 CONNECTION DIA. (W) 480 V SWITCHGEAR WIRING DIAGRAM UNIT NOS. 1, 2 & 3 MOD-0A 200 kW MTG
1016F21	3	CF759040 CF759041 CF759042	1 1 1	D E D	(NASA) ELECTRICAL-CONNECTION DIAGRAM FOR TERMINAL BOXES 2B & 3B (NASA) ELECTRICAL-CONNECTION DIAGRAM FOR TERMINAL BOXES 2A & 2B (NASA) ELECTRICAL-CONNECTION DIAGRAM FOR TERMINAL BOXES NO. 4 (W) CONNECTION DIAGRAMS FOR TERMINAL BOXES, 2B, 3B, 2A, 3A & NO. 4 MOD-0A 200 kW MTG
1016F22	1	CF759043	1	F	(NASA) ELECTRICAL-ELECTRICAL CONNECTION DIAGRAM SAFETY SHUTDOWN PANEL (W) ELECTRICAL CONNECTION DIAGRAM SAFETY SHUTDOWN PANEL MOD-0A 200 kW MTG
1016F23	1	CF759044	1	E	(NASA) ELECTRICAL-YAW BRAKE ELEMENTARY & CONNECTION DIAGRAM (W) YAW BRAKE ELEMENTARY & CONNECTION DIAGRAM MOD-0A 200 kW MTG
1016F24	1	CF759045	1	C	(NASA) ELECTRICAL-MICRO PROCESSOR CIRCUIT CARD LOCATOR RACK A & RACK B (W) MICRO PROCESSOR CIRCUIT CARD LOCATION, RACK A & RACK B MOD-0A 200 kW MTG
1016F25	1	CF759047	1	D	(NASA) ELECTRICAL-YAW CONTROL PANEL LAYOUT (W) YAW CONTROL PANEL LAYOUT MOD-0A 200 kW MTG

* All Westinghouse Drawings are Revision -

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Table 1 (Cont'd)

LIST OF DRAWINGS FOR THE MOD-0A 200 KW WIND TURBINE GENERATOR
CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	*REV.	TITLE OF DRAWING
1016F26	1	CF759048	1	D	(NASA) ELECTRICAL-CONTROL RACK ANALOG TERMINAL STRIP INTERCONNECTION (W) CONTROL RACK ANALOG TERMINAL STRIP INTERCONNECTION MOD-0A 200 KW WIND TURBINE GENERATOR
1016F27	1	CF759049	1	E	(NASA) ELECTRICAL-ELECTRICAL CONNECTION DIAGRAM AMPLIFIER PANEL (W) ELECTRICAL CONNECTION DIAGRAM AMPLIFIER PANEL MOD-0A KW WIND TURBINE GENERATOR
1016F28	4	CF760480	3	-	(NASA) ELECTRICAL-INTRUSION ALARM (W) INTRUSION ALARM SYSTEM ALARM SYSTEM & ELEC. ELEMENTARY CONNECTION DIAGRAM & INSTALLATION DETAIL MOD-0A 200 KW WTG
1016F30	1	CD760481 CD760482	1	B	(NASA) ELECTRICAL-MICROPROCESSOR TIMER-CARD SCHEMATIC (NASA) ELECTRICAL-MICROPROCESSOR RELAY-CARD SCHEMATIC (W) MICROPROCESSOR TIMER-CARD AND RELAY-CARD SCHEMATIC MOD-0A 200 KW WTG
1016F31	1	CF760494	1	B	(NASA) ELECTRICAL-ELAPSE TIME PANEL (W) ELAPSE TIME PANEL MOD-0A 200 KW WIND TURBINE GENERATOR
1016F32	1	CF760495	1	C	(NASA) ELECTRICAL-RECLOSER & CIRCUIT BREAKER NO. 2 ELEMENTARY & WIRING DIAGRAMS (W) RECLOSER & CIRCUIT BREAKER NO. 2 ELEMENTARY & WIRING DIAGRAMS MOD-0A 200 KW WIND TURBINE GENERATOR
1016F33	1	CF760496	1	D	(NASA) ELECTRICAL-CLIMATRONICS & REFERENCE PANEL CONNECTION DIAGRAM (W) ELECTRICAL CONNECTION DIAGRAM CLIMATRONICS & REFERENCE PANEL MOD-0A 200 KW WIND TURBINE GENERATOR
1016F34	1	CF760497	1	B	(NASA) ELECTRICAL-PITCH CONTROLLER INTERNAL TERMINATIONS (W) PITCH CONTROLLER INTERNAL TERMINATIONS MOD-0A 200 KW WTG

*All Westinghouse Drawings are Revision -

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Table I (Cont'd)

LIST OF DRAWINGS FOR THE MOD-0A 200 KW WIND TURBINE GENERATOR
CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	*REV.	TITLE OF DRAWING
1016F35	1	CF760546	1	-	(NASA) ELECTRICAL-SYNCHRO-D.C. CONVERTER-AEROVANE TRANSLATER SCHEMATIC
1016F36	1	CF760552	1	-	(H) SYNCHRO-D.C. CONVERTER AEROVANE TRANSLATOR SCHEMATIC MOD-0A 200 KW WIND TURBINE GENERATOR
					(NASA) DAYTRONICS CONNECTION DIAGRAM-ELECTRICAL
					(H) DAYTRONICS CONNECTION DIAGRAM MOD-0A 200 KW WTG

*All Westinghouse Drawings are Revision -

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TABLE 2
 LIST OF DRAWINGS FOR THE MOD-OA 200 KW WIND TURBINE GENERATOR
 CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	*REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CD758836	1	A	1015F02	1	(NASA) HUB FORGING (W) HUB PITCH FORGING MOD OA-200 KW WIND TURBINE GENERATOR
CR758862	1	F	1015F01	11	(NASA) MOD-OA 200 KW WIND TURBINE GENERATOR ASSEMBLY (W) ASSEMBLY MOD-OA 200 KW WIND TURBINE GENERATOR
CR758863	1	G	1015F01	11	(NASA) MOD-OA 200 KW WIND TURBINE GENERATOR ASSEMBLY (W) ASSEMBLY MOD-OA 200 KW WIND TURBINE GENERATOR
CR758864	1	D	1015F03	4	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB (W) PITCH CONTROL HUB ASS'Y MOD-OA 200 KW WIND TURB. GEN.
CF758865	1	B	1015F04	1	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 1 (W) HUB PITCH DETAIL MOD-OA 200 KW WIND TURBINE GENERATOR
CD758866	1	A	1015F05	1	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 2 (W) BLADE SPINDLE SLEEVE MOD-OA 200 KW WIND TURBINE GEN.
CD758867	1	D	1015F06	1	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 3 (W) BLADE SPINDLE HOUSING MOD-OA 200 KW WIND TURBINE GEN.
CD758868	1	C	1015F07	1	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 4 (W) DRIVE SHAFT BEARING RETAINER MOD-OA 200 KW WTG
CD758869	1	B	1015F08	1	(NASA) ASS'Y-GEAR TYPE PITCH CONTROL HUB-DETAILS 5 THRU 11 (W) HUB PITCH DETAILS MOD-OA 200 KW WIND TURBINE GENERATOR
CD758870	1	A	1015F09	1	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 12 (W) HUB PITCH DRIVE SHAFT MOD-OA 200 KW WIND TURBINE GEN.
CC758871	1	A	1015F68	1	(NASA) DETAILS (W) HUB PITCH DETAILS MOD-OA 200 KW WIND TURBINE GENERATOR

*All Westinghouse Drawings are Revision - (i.e., Unrevised)

TABLE 2 (Cont'd.)
 LIST OF DRAWINGS FOR THE M00-OA 200 kW WIND TURBINE GENERATOR
 CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

ASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV.	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CD758872	1	C	1015F10	1	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 15 (W) HUB PITCH BEVEL PINION GEAR M00-OA 200 kW WTG.
CD758873	1	C	1015F11	1	(NASA) ASSEMBLY-GEAR TYPE PITCH CONTROL HUB - DETAIL 16 (W) HUB PITCH BEVEL GEAR SECTOR M00-OA 200 kW WTG.
CF758874	1	C	1015F12	1	(NASA) ASS'Y-GEAR TYPE PITCH CONTROL HUB-DETAILS 17 THRU 25 (W) HUB PITCH DETAILS M00-OA 200 kW WIND TURBINE GENERATOR
CD758875	1	C	1015F03	4	(NASA) SUB-ASSEMBLY BEARING & GEAR ADJUSTMENT (W) PITCH CONTROL HUB ASS'Y M00-OA 200 kW WIND TURB. GEN.
CR758877	1	E	1015F14	6	(NASA) BEDPLATE (W) BEDPLATE M00-OA 200 kW WIND TURBINE GENERATOR
CR758878	1	D	1015F15	3	(NASA) FWD CENTER SHROUD (W) FORWARD CENTER SHROUD M00-OA 200 kW WIND TURBINE GEN.
CR758879	1	E	1015F16	4	(NASA) REAR CENTER SHROUD (W) REAR CENTER SHROUD M00-OA 200 kW WIND TURB. GENERATOR
CF758880	1	A	1015F17	1	(NASA) NOSE CONE (W) NOSE CONE M00-OA 200 kW WIND TURBINE GENERATOR
CF758881	1	C	1015F18	1	(NASA) PROP CONE (W) PROP CONE (SPINNER) M00-OA 200 kW WIND TURBINE GEN.
CD758882	1	B	1015F19	1	(NASA) PROP HUB & CONE COVER PLATE (W) BLADE OPENING COVERS M00-OA 200 kW WIND TURBINE GEN.
CD758883	1	-	1015F20	1	(NASA) CONE SUPPORT DETAILS (W) CONE SUPPORT DETAILS M00-OA 200 kW WIND TURBINE GEN.
CD758884	1	A	1015F21	1	(NASA) FRONT HUB SUPPORT (W) MOUNTING PANEL-PROP CONE M00-OA 200 kW WIND TURB. GEN.

* All Westinghouse Drawings are Revision -

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TABLE 2 (Cont'd.)
 LIST OF DRAWINGS FOR THE MOD-0A 200 KW WIND TURBINE GENERATOR
 CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

ASA LEWIS WING NUMBER	NUMBER OF SHTS.	REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
C0758885	1	-	1015F22	1	(NASA) BEAR HUB SUPPORT (W) SUPPORT-PROP CONE MOD-0A 200 KW WIND TURBINE GENERATOR
CF758885	1	C	1015F23	2	(NASA) WALKWAYS (W) WALKWAYS MOD-0A 200 KW WIND TURBINE GENERATOR
CF758887	1	A	1015F24	1	(NASA) ADJ. GENERATOR BOTTOM PLATE (W) BOTTOM PLATE-GENERATOR ADJUSTMENT MOD-0A 200 KW WTG
CF758888	1	A	1015F25	1	(NASA) ADJ. GEN. TOP & LOCK BAR (W) GENERATOR ADJUSTMENT DETAILS
CF758889	1	C	1015F26	1	(NASA) DETAILS (W) DETAILS MOD-0A 200 KW WIND TURBINE GENERATOR
CF758890	1	C	1015F27	1	(NASA) MAIN DRIVE SHAFT (W) MAIN DRIVE SHAFT MOD-0A 200 KW WIND TURBINE GENERATOR
C0758892	1	-	1015F28	1	(NASA) BRAKE SUPPORT (W) BRAKE SUPPORT MOD-0A 200 KW WIND TURBINE GENERATOR.
C0758895	1	-	1015F29	1	(NASA) PULLEY DRIVE SHAFT (W) PULLEY DRIVE SHAFT MOD-0A 200 KW WIND TURB. GENERATOR
CR758896	1	E	1015F30	2	(NASA) MAIN YAW BRG SUPPORT (W) MAIN YAW BRG SUPPORT MOD-0A 200 KW WIND TURBINE GEN.
CF758897	1	A	1015F31	1	(NASA) YAW DRIVE BRG HOUSING (W) YAW DRIVE BRG HOUSING MOD-0A 200 KW WIND TURBINE GEN.
CF758898	1	-	1015F32	1	(NASA) YAW DRIVE SHAFT (W) YAW DRIVE SHAFT MOD-0A 200 KW WIND TURBINE GENERATOR
CF758899	1	-	1015F33	1	(NASA) YAW BRG RETAINER & SEAL (W) YAW-BRG RETAINERS MOD-0 200 KW WIND TURBINE GENERATOR
C0758900	1	A	1015F34	1	(NASA) INTER. YAW DRIVE SHAFT (W) INTERMEDIATE YAW DRIVE SHAFT MOD-0A 200 KW WTG

* All Westinghouse Drawings are Revised -

TABLE 2 (Cont'd.)
 LIST OF DRAWINGS FOR THE MOD-0A 200 KW WIND TURBINE GENERATOR
 CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

SA LEWIS DWS NUMBER	NUMBER OF SHTS.	REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CD758901	1	B	1015F35	1	(NASA) YAW DRIVE MOUNTING (W) YAW DRIVE MOUNTING PLATE MOD-0A 200 KW WIND TURB. GEN.
CD758902	1	C	1015F36	1	(NASA) SHEAR KEY & THRUST BUTTOM (W) SHEAR KEY & THRUST BUTTOM MOD-0A 200 KW WIND TURB. GEN.
CD758903	1	B	1015F37	1	(NASA) MAIN SLIP RING SUPPORT HORIZ. (W) MAIN SLIP RING SUPPORT (HORIZ.) MOD-0A 200 KW WTG
CF758904	1	C	1015F38	2	(NASA) BREAK PRESS. SYST. (W) PIPING SCHEMATIC & PANEL LAYOUT BRAKE CHAMBER & & PRESSURIZING SYSTEM MOD-0A 200 KW WIND TURBINE GEN.
CD758905	1	-	1015F39	1	(NASA) LIFTING BOOM (W) LIFTING BOOM, U-BOLT & WIND SPEED & DIRECTIONAL MOUNT. BRACKET MOD-0A 200 KW WIND TURBINE GENERATOR
CD758906	1	-	1015F40	1	(NASA) HYD PACK SUPPORT BED (W) HYDRAULIC PACKAGE SUPPORT BED MOD-0A 200 KW WTG
CD758907	1	-	1015F39	1	(NASA) "U" BOLT - BOTTLE HOLD DOWN (W) LIFTING BOOM, U-BOLT & WIND SPEED & DIRECTIONAL MOUNT. BRACKET MOD-0A 200 KW WIND TURBINE GENERATOR
CD758908	1	A	1015F42	1	(NASA) HYD PACK FAN SHROUD (W) HYDRAULIC PACKAGE FAN SHROUD MOD-0A 200 KW WTG
CD758909	1	B	1015F41	1	(NASA) LIFTING BEAM & SLING ASSEMBLY (W) LIFTING BEAM & SLING ASSEMBLY MOD-0A 200 KW WTG
CF758910	1	B	1015F44	1	(NASA) DETAILS (W) HIGH SPEED BRADE DETAILS MOD-0A 200 KW WIND TURB. GEN.

* All Westinghouse Drawings are Revision -

TABLE 2 (Cont'd.)
 LIST OF DRAWINGS FOR THE MOD-0A 200 kW WIND TURBINE GENERATOR
 CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

SA LEWIS ING NUMBER	NUMBER OF SHTS.	REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CF758912	1	A	1015F45	1	(NASA) ROTARY COUPLING SUPPORT (W) DEUBLIN CPLG SUPPORT BRACKET MOD-0A 200 kW MTG
C0758913	1	B	1015F46	1	(NASA) LADDER (W) LADDER WELDED ASSEMBLY MOD-0A 200 kW MTG
C0758914	1	-	1015F47	1	(NASA) REAR PROP CONE SUPPORTS (W) REAR PROP CONE SUPPORT MOD-0A 200 kW MTG
C0758915	1	A	1015F48	1	(NASA) HYD SUPPLY CLAMP & SUPPORTS (W) HYDRAULIC SUPPLY CLAMP & SUPPORT MOD-0A 200 kW MTG
C0758916	1	C	1015F49	1	(NASA) CO AXIAL FLOW LINE ASSEMBLY (W) CO AXIAL FLOW LINE - ASSEMBLY & DETAIL MOD-0A 200 kW MTG
C0758919	1	A	1015F50	1	(NASA) SPINNER RAIN GUARD (W) SPINNER RAIN GUARD MOD-0A 200 kW MTG
CF758920	1	A	1015F51	1	(NASA) SLIP RING ANTI-ROTATION & BRKT. (W) SLIP RING ANTI-ROTATION SUPPORT & BRKT. MOD-0A 200 kW MTG
CF758921	1	A	1015F52	3	(NASA) HYDRAULIC PUMP PACKAGE ASSEMBLY (W) HYDRAULIC PUMP PACKAGE ASSY MOD-0A 200 kW MTG
CF758922	1	A	1015F52	3	(NASA) HYDRAULIC PUMP PACKAGE ASSEMBLY (W) HYDRAULIC PUMP PACKAGE ASSY MOD-0A 200 kW MTG
CF758923	1	-	1015F52	3	(NASA) HYDRAULIC PUMP PACKAGE ASSEMBLY (W) HYDRAULIC PUMP PACKAGE ASSY MOD-0A 200 kW MTG
CF758924	1	-	1015F53	2	(NASA) DETAILS (W) HYDRAULIC PUMP PACKAGED ASSY MOD-0A 200 kW MTG

* All Westinghouse Drawings are Revision -

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TABLE 2 (Cont'd.)
 LIST OF DRAWINGS FOR THE MOD-0A 200 KW WIND TURBINE GENERATOR
 CORRELATION OF WESTINGHOUSE DRAWINGS TO NASA LEWIS RESEARCH CENTER DRAWINGS

ASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CF758925	1	-	1015F54	1	(NASA) DETAILS (W) HYDRAULIC PUMP DETAILS MOD-0A 200 KW WIND TURB. GEN.
DR758926	1	B	1015F55	4	(NASA) ACTUATOR ASSEMBLY (W) ACTUATOR ASSEMBLY MOD-0A 200 KW WIND TURB. GEN.
CF758927	1	A	1015F56	1	(NASA) DETAILS (W) ACTUATOR ASSY DETAILS MOD-0A 200 KW WIND TURB. GEN.
CF758928	1	A	1015F57	1	(NASA) DETAILS (W) ACTUATOR ASSY DETAILS MOD-0A 200 KW WIND TURB. GEN.
CF758929	1	B	1015F58	1	(NASA) HYDRAULIC SCHEMATIC DIAGRAM (W) CONTROL SCHEMATIC DIAGRAM MOD-0A 200 KW WTG
CF758929	7	-	1015F58	1	(NASA) OPERATIONAL REQUIREMENTS & PARTS LIST (W) CONTROL SCHEMATIC DIAGRAM MOD-0A 200 KW WTG
CF758930	1	B	1015F59	1	(NASA) INTERFACE-METAL BLADE TO PITCH CONTROL HUB (W) INTERFACE-BLADE TO HUB MOD-0A 200 KW WIND TURBINE GEN.
CC758931	1	A	1015F39	1	(NASA) WIND SPEED MOUNTING BRK'D (W) LIFTING BOOM, U-BOLT & WIND SPEED & DIRECTIONAL MOUNT- BRACKET MOD-0A 200 KW WIND TURBINE GENERATOR
CD758932	1	A	1015F61	1	(NASA) UPPER BRAKE SUPPORT (W) UPPER BRAKE SUPPORT MOD 0A-200 KW WIND TURBINE GEN.
CD758933	1	-	1015F62	1	(NASA) TURNTABLE BEARING & GEAR ASSY. (W) TURNTABLE BRG. & GEAR ASSY MOD-0A 200 KW WTG

* All Westinghouse Drawings are Revision -

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TABLE 2 (Cont'd.)
 LIST OF DRAWINGS FOR THE MOD-OA 200 KW WIND TURBINE GENERATOR
 CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

SA LEWIS ING NUMBER	NUMBER OF SHTS.	* REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CD758934	1	C	1015F63	1	(NASA) LIFTING BEAM (W) LIFTING BEAM DETAILS MOD-OA 200 KW WIND TURBINE GEN.
CF758936	1	A	1015F64	1	(NASA) EXTERIOR FINISH - FIBERGLASS HOUSING (W) EXTERIOR FINISH-FIBERGLAS HOUSING MOD-OA 200 KW MTG
CC758937	1	B	1015F65	1	(NASA) TRANSFORMER BRACKETS (W) TRANSFORMER ANTI-ROTATION BRACKET & BUTTRES RING RETAINER DETAILS MOD-OA 200 KW WIND TURBINE GENERATOR
CD758938	1	-	1015F66	1	(NASA) OUTPUT SHAFT CONFIGURATION FOR DOUBLE REDUCTION WORM GEAR UNIT (W) DOUBLE REDUCTION WORM GEAR UNIT YAW DRIVE MOD-OA 200 KW WIND TURBINE GENERATOR
CF758939	1	A	1015F67	1	(NASA) TOWER SLIP RING ANTI-ROTATION ASSEMBLY (W) TOWER SLIP RING ANTI-ROTATION ASSY MOD-OA 200 KW MTG
CC758945	1	A	1015F68	1	(NASA) BUTTRES RING (W) DETAIL MOD-OA 200 KW WIND TURBINE GENERATOR
CF758946	1	B	1015F69	1	(NASA) MOD OA WIND TURBINE GENERATOR SITE PLAN & GENERAL ASSY (W) SITE PLAN & GENERAL ASSY MOD-OA 200 KW WIND TURBINE GEN.
CF758948	1	B	1015F70	4	(NASA) STRUCTURAL-TOWER ELEVATION & DETAILS (W) TOWER ELEVATIONS, PLAN & DETAILS MOD-OA 200 KW MTG
CF758949	1	A	1015F90	4	(NASA) STRUCTURAL-TOWER PLANS & DETAILS (W) TOWER ELEVATIONS, PLAN & DETAILS MOD-OA 200 KW MTG

* All Westinghouse Drawings are Revision -

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TABLE 2 (Cont'd.)
 LIST OF DRAWINGS FOR THE MOD-0A 200 kW WIND TURBINE GENERATOR
 CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

ASA LEWIS WING NUMBER	NUMBER OF SHTS.	REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CF758950	1	A	1015F70	4	(NASA) STRUCTURAL-TOWER DETAILS (W) TOWER ELEVATIONS, PLAN & DETAILS MOD-0A 200 kW MTG
CF758952	1	-	1015F71	2	(NASA) STRUCTURAL-ASSEMBLY STAND PLAN & DETAILS (W) ASSY STAND PLAN & DETAILS MOD-0A 200 kW WIND TURB. GEN.
CD758957	1	B	1015F72	1	(NASA) SPEED INCREASE-DIMENSIONAL REQUIREMENTS (W) SPECIAL SPEED INCREASE MOD-0A 200 kW WIND TURBINE GEN.
CF758968	1	C	1016F01	4	(NASA) ELECTRICAL-INSTRUMENTATION SENSOR WIRING LIST (W) INSTRUMENTATION SENSOR WIRING LIST MOD-0A 200 kW MTG
CF758969	1	E	1016F01	4	(NASA) ELECTRICAL-INSTRUMENTATION SENSOR WIRING LIST (W) INSTRUMENTATION SENSOR WIRING LIST MOD-0A 200 kW MTG
CF758970	1	C	1016F01	4	(NASA) ELECTRICAL-INSTRUMENTATION SENSOR WIRING LIST (W) INSTRUMENTATION SENSOR WIRING LIST MOD-0A 200 kW MTG
CF758971	1	E	1016F02	1	(NASA) ELECTRICAL-POWER ONE LINE CONNECTION DIAGRAM & SCHEDULE OF DMG. (W) POWER ONE LINE CONNECTION DIAGRAM SCHEDULE OF DMG'S MOD-0A 200 kW WIND TURBINE GENERATOR
CC758972	1	A	1015F73	1	(NASA) GEAR BOX SLIP RING ASSEMBLY (W) GEAR BOX SLIP RING ASSY-ELECTRICAL MOD-0A 200 kW MTG
CF758973	1	A	1015F74 1015F79	1	(NASA) TOWER SLIP RING ASSY-ELECTRICAL (W) TOWER SLIP RING ASSY (ELEC) MOD-0A 200 kW MTG

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TABLE 2 (Cont'd.)
 LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
 CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CF758974	1	B	1015F75 1015F79	1	(NASA) TOWER SLIP RING ASSY-ELECTRICAL (W) TOWER SLIP RING ASSY MOD-OA 200 kW WIND TURBINE GEN.
CR758975	1	A	1015F43	3	(NASA) SENSOR LOCATION (PLAN VIEW) (W) SENSOR LOCATION & CONDUIT ROUTING MOD-OA 200 kW MTG
CR758976	1	C	1015F43	3	(NASA) SENSOR LOCATION (ELEVATION VIEW) (W) ELECTRICAL SENSOR LOCATIONS MOD-OA 200 kW MTG
CF758977	1	C	1016F03	1	(NASA) ELECTRICAL-AUXILIARY ELECTRONIC PACKAGE CONNECTION & INTERCONNECTION DIAGRAM (W) AUXILIARY ELECTRONIC PACKAGE CONNECTION & INTERCONNECTION DIAGRAM MOD-OA 200 kW WIND TURBINE
CF758978	1	D	1016F04	2	(NASA) ELECTRICAL-SENSOR IDENTIFICATION LIST (CLAYTON) (W) SENSOR IDENTIFICATION LIST MOD-OA 200 kW MTG
CF758979	1	F	1016F05	1	(NASA) ELECTRICAL-CABLE INTERCONNECTION (W) ELECTRICAL-CABLE INTERCONNECTION MOD-OA 200 kW MTG
CF758980	1	-	1016F06	1	(NASA) ELECTRICAL-INSTRUMENTATION INTERCONNECTION DIAGRAM PHASE I TEST (W) INSTRUMENTATION INTERCONNECTION DIAGRAM LERC-ERB CW 22 PHASE I TEST MOD-OA 200 kW WIND TURBINE
CF758981	1	B	1015F76	2	(NASA) ELECTRICAL-EQUIPMENT LAYOUT, LIGHTING, GROUNDING & DETA (W) ELECTRICAL-EQUIPMENT LAYOUT, LIGHTING, GROUNDING DETAILS MOD-OA 200 kW MTG
CF758982	1	B	1015F77	2	(NASA) ELECTRICAL-POWER CONTROL & INSTRUMENTATION TERMINAL BOXES & DETAILS (W) ELECTRICAL-POWER CONTROL & INSTRUMENTATION TERMINAL BOXES MOD-OA 200 kW MTG

* All Westinghouse Drawings are Revision -

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TABLE 2 (Cont'd.)
 LIST OF DRAWINGS FOR THE MOD-OA 200 KW WIND TURBINE GENERATOR
 CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

ASA LEWIS WING NUMBER	NUMBER OF SHTS.	WESTINGHOUSE DRAWING NUMBER	* REV	NUMBER OF SHTS.	TITLE OF DRAWING
CF758983	1	1016F07	C	1	(NASA) ELECTRICAL-GEAR BOX SLIP RING CONNECTION DIAGRAM (W) GEAR BOX SLIP RING CONNECTION DIAGRAM MOD-OA 200 KW WTG
CF758984	1	1016F08	G	1	(NASA) ELECTRICAL-TOWER SLIP RING CONNECTION DIAGRAM (W) TOWER SLIP RING CONNECTION DIAGRAM MOD-OA 200 KW WTG
CF758985	1	1016F09	A	1	(NASA) ELECTRICAL-STATIC SHAFT TEST INTERCONNECTION DIAGRAM PHASE I TEST (W) STATIC SHAFT TEST INTERCONNECTION DIAGRAM LERC-ERB CW 22 PHASE I TEST MOD-OA 200 KW WIND TURBINE GENERATOR
CD758999	1	1015F78	-	1	(NASA) INTERMEDIATE SHAFT (W) HIGH SPEED SHAFT ASSEMBLY MOD-OA 200 KW WIND TURB. GEN.
CC759000	1	1015F93	A	1	(NASA) FLUID COUPLER ADAPTER (W) DETAILS MOD-OA 200 KW WIND TURBINE GENERATOR
CF759019	1	1015F80	G	3	(NASA) HYDRAULIC SCHEMATIC YAW BRAKE (W) YAW BRAKE HYDRAULIC SYSTEM PANEL & SCHEMATIC MOD-OA 200 KW WIND TURBINE GENERATOR
CC759020	1	1015F81	-	1	(NASA) SPACERS YAW COUPLINGS (W) DETAILS MOD-OA 200 KW WIND TURBINE GENERATOR
CF759021	1	1015F82	-	1	(NASA) PULLEY BEARING SUPPORT (W) PULLEY BEARING SUPPORT MOD-OA 200 KW WIND TURB. GEN.
CD759023	1	1015F83	A	1	(NASA) DETAILS FOR HYDRAULIC ACTUATOR (W) DETAILS FOR HYDRAULIC ACTUATOR MOD-OA 200 KW WTG
CF759024	1	1015F84	A	1	(NASA) DETAILS FOR PUMP PACKAGE (W) PUMP PACKAGE DETAILS MOD-OA 200 KW WIND TURBINE GEN.

* All Westinghouse Drawings are Revision -

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TABLE 2 (Cont'd.)
 LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
 CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

ASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CF759025	1	C	1016F10	1	(NASA) ELECTRICAL-TOWER SENSOR LOCATION PLAN, DETAILS, PIN LAYOUT & ELECTRICAL CONNECTION DIAGRAM (W) TOWER SENSOR LOCATION PLAN DETAILS, PIN LAYOUT & ELECTRICAL CONNECTION DIAG. MOD-OA 200 kW WTG
CF759026	1	E	1016F11	2	(NASA) ELECTRICAL SAFETY SHUTDOWN-ELEMENTARY DIAGRAM (W) ELECTRICAL SAFETY SHUTDOWN-ELEMENTARY DIAGRAM MOD-OA 200 kW WIND TURBINE GENERATOR
CF759027	1	F	1016F12	2	(NASA) ELECTRICAL-CONTROL ELEMENTARY DIAGRAM (W) CONTROL ELEMENTARY DIAGRAM MOD-OA 200 kW WTG
CF759028	1	D	1016F13	1	(NASA) ELECTRICAL-YAW CONTROLLER CONNECTION DIAGRAM (W) YAW CONTROLLER CONNECTION DIAGRAM MOD-OA 200 kW WTG
CF759029	1	A	1016F14	1	(NASA) ELECTRICAL-MICROPROCESSOR FLOW DIAGRAM (W) MICROPROCESSOR FLOW DIAGRAM MOD-OA 200 kW WTG
CF759030	1	C	1016F15	1	(NASA) ELECTRICAL-CONNECTION DIAGRAM FOR PITCH CONTROLLER (W) ELECTRICAL CONNECTION DIAGRAM PITCH CONTROLLER MOD-OA 200 kW WIND TURBINE GENERATOR
CF759031	1	E	1016F16	1	(NASA) ELECTRICAL-MICROPROCESSOR BLOCK DIAGRAM (W) MICROPROCESSOR BLOCK DIAGRAM MOD-OA 200 kW WTG
CF759032	1	E	1016F17	1	(NASA) ELECTRICAL-SUPERVISORY CONTROLLER INTERCONNECTION CENTRAL & REMOTE (W) SUPERVISORY CONTROLLER INTERCONNECT CENTRAL & REMOTES STATIONS & DETAIL "A" MOD-OA 200 kW WIND TURBINE GENERATOR
CF759033	1	E	1016F18	2	(NASA) ELECTRICAL-PITCH CONTROLLER SCHEMATIC (W) PITCH CONTROLLER SCHEMATIC MOD-OA 200 kW WTG

* All Westinghouse Drawings are Revision -

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TABLE 2 (Cont'd.)
 LIST OF DRAWINGS FOR THE MOD-OA 200 KW WIND TURBINE GENERATOR
 CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CF759034	1	F	1016F19	2	(NASA) ELECTRICAL-CONTROL PANEL LAYOUTS & RELAY PANEL CONNECTION DIAGRAMS (W) CONTROL PANEL LAYOUTS & RELAY PANEL CONNECTION DIAGRAMS MOD-OA 200 KW WIND TURBINE GENERATOR
CF759035	1	C	1016F20	7	(NASA) ELECTRICAL-480 V SWITCHGEAR ONE LINE DIAGRAM (W) 480 V SWITCHGEAR WIRING DIAGRAM UNIT NOS. 1, 2 & 3 MOD-OA 200 KW WIND TURBINE GENERATOR
CF759036	1	E	1016F20	7	(W) 480 V SWITCHGEAR WIRING DIAGRAM UNIT NOS. 1, 2 & 3 MOD-OA 200 KW WIND TURBINE GENERATOR
CF759037	1	F	1016F20	7	(W) 480 V SWITCHGEAR WIRING DIAGRAM UNIT NOS. 1, 2, & 3 MOD-OA 200 KW WIND TURBINE GENERATOR
CF759038	1	E	1016F20	7	(W) 480 V SWITCHGEAR WIRING DIAGRAM UNIT NOS. 1, 2, & 3 MOD-OA 200 KW WIND TURBINE GENERATOR

All Westinghouse Drawings are Revision -

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TABLE 2 (Cont'd.)
 LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
 CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

NASA LEWIS DRAWING NUMBER	NUMBER OF SHYS.	PEV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHYS.	TITLE OF DRAWING
CF759039	1	F	1016F20	7	(W) 480 V SWITCHGEAR WIRING DIAGRAM UNIT NOS. 1, 2, & 3 MOD-OA 200 kW WIND TURBINE GENERATOR
CF759040	1	D	1016F21	3	(NASA) ELECTRICAL-CONNECTION DGM FOR TERMINAL BOXES 2B & 3B (W) CONNECTION DIAGRAMS FOR TERMINAL BOXES, 2B, 3B, 2A, 3A & NO. 4 MOD-OA 200 kW WIND TURBINE GENERATOR
CF759041	1	E	1016F21	3	(NASA) ELECTRICAL-CONNECTION DGM FOR TERMINAL BOXES 2A & 2B (W) CONNECTION DIAGRAMS FOR TERMINAL BOXES, 2B, 3B, 2A, 3A & NO. 4 MOD-OA 200 kW WIND TURBINE GENERATOR
CF759042	1	D	1016F21	3	(NASA) ELECTRICAL-CONNECTION DIAGRAM FOR TERMINAL BOXES NO. 4 (W) CONNECTION DIAGRAMS FOR TERMINAL BOXES, 2B, 3B, 2A, 3A & NO. 4 MOD-OA 200 kW WIND TURBINE GENERATOR
CF759043	1	F	1016F22	1	(NASA) ELECTRICAL-ELECTRICAL CONNECTION DIAGRAM SAFETY SHUTDOWN PANEL (W) ELECTRICAL CONNECTION DIAGRAM SAFETY SHUTDOWN PANEL MOD-OA 200 kW WIND TURBINE GENERATOR
CF759044	1	E	1016F23	1	(NASA) ELECTRICAL-YAW BRAKE ELEMENTARY & CONNECTION DIAGRAM (W) YAW BRAKE ELEMENTARY & CONNECTION DGM. MOD-OA 200 kW WTG
CF759045	1	C	1016F24	1	(NASA) ELECTRICAL-MICROPROCESSOR CIRCUIT CARD LOCATOR RACK A & RACK B (W) MICROPROCESSOR CIRCUIT CARD LOCATION, RACK A & RACK B MOD-OA 200 kW WIND TURBINE GENERATOR

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All Westinghouse Drawings are Revision -

Table 2 (Cont'd)

LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR
CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	REV.	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CF759047	1	D	1016F25	1	(NASA) ELECTRICAL-YAW CONTROL PANEL LAYOUT (W) YAW CONTROL PANEL LAYOUT MOD-OA 200 kW WTG
CF759048	1	D	1016F26	1	(NASA) ELECTRICAL-CONTROL RACK ANALOG TERMINAL STRIP INTERCONNECTION (W) CONTROL RACK ANALOG TERMINAL STRIP INTERCONNECTION MOD-OA 200 kW WIND TURBINE GENERATOR
CF759049	1	E	1016F27	1	(NASA) ELECTRICAL-ELECTRICAL CONNECTION DIAGRAM AMPLIFIER PANEL (W) ELECTRICAL CONNECTION DIAGRAM AMPLIFIER PANEL MOD-OA 200 kW WIND TURBINE GENERATOR
CF760271	1	A	1015F85	2	(NASA) STRUCTURAL-ASSY STAND PLAN & DETAILS (W) ASSY STAND PLAN & DETAILS MOD-OA 200 kW WIND TURB. GEN.
CF760300	1	-	1015F86	2	(NASA) STRUCTURAL-TOWER & ASSY STAND-FOUNDATIONS & DETAILS- CLAYTON N.M. (W) TOWER & ASSY STAND FOUNDATION & DETAILS MOD-OA 200 kW WIND TURBINE GENERATOR
CC760476	1	-	1015F87	1	(NASA) GREASE & PRESSURE FITTINGS (W) GREASE & PRESSURE FITTINGS MOD-OA 200 kW WTG
CD760477	1	-	1015F88	1	(NASA) HUB COUNTER WEIGHTS (W) HUB COUNTER WEIGHTS MOD-OA 200 kW WIND TURBINE GEN.
CF760478	1	-	1015F89	1	(NASA) DETAILS (W) DETAILS MOD-OA 200 kW WIND TURBINE GENERATOR
CF760480	3	-	1016F28	4	(NASA) ELECTRICAL-INTRUSION ALARM (W) INTRUSION ALARM SYSTEM ALARM SYSTEM & ELEC. ELEMENTARY CONNECTION DIAGRAM & INSTALLATION DETAIL MOD-OA 200 kW WTG
CD760481	1	B	1016F30	1	(NASA) ELECTRICAL-MICROPROCESSOR TIMER-CARD SCHEMATIC (W) MICROPROCESSOR TIMER CARD-SCHEMATIC MOD-OA 200 kW WTG

*All Westinghouse Drawings are Revision -

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Table 2 (Cont'd)

LIST OF DRAWINGS FOR THE MD9-OA 200 kW WIND TURBINE GENERATOR

CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	*REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CD760482	1	B	1016F30	1	(NASA) ELECTRICAL-MICROPROCESSOR RELAY-CARD SCHEMATIC (W) MICROPROCESSOR RELAY CARD SCHEMATIC MD9-OA 200 kW MTG
CF760484	1	A	1015F90	1	(NASA) HYDRAULIC SYSTEM PANEL YAW BRAKE (W) HYDRAULICS COMPONENTS MTG PANEL MD9-OA 200 kW MTG
CF760484	1	A	1015F91	1	(NASA) HYDRAULIC SYSTEM PANEL YAW BRAKE (W) HYDRAULIC SYSTEM PANEL YAW BRAKE-STRUCTURAL SUPPORT MD9-OA 200 kW WIND TURBINE GENERATOR
CF760485	1	A	1015F80	3	(NASA) HYDRAULIC SYSTEM PANEL YAW BRAKE (W) YAW BRAKE HYDRAULIC SYSTEM PANEL & SCHEMATIC MD9-OA 200 kW WIND TURBINE GENERATOR
CD760486	1	A	1015F92	1	(NASA) AIR BOTTLE GAGE BRACKET (W) AIR BOTTLE GAGE BRACKET DETAILS MD9-OA 200 kW MTG
CC760487	1	A	1015F93	1	(NASA) GEAR ALT. LOW SPEED SHAFT (W) DETAILS MD9-OA 200 kW WIND TURBINE GENERATOR
CC760488	1	A	1015F94	1	(NASA) DUBLIN MOUNT (W) DUBLIN MOUNT & SLIP RING DUST COVER MD9-OA 200 kW MTG
CB760490	1	A	1015F65	1	(NASA) BUTTRES RING RETAINER (W) TRANSFORMER ANTI-ROTATION BRACKET & BUTTRES RING RETAINER DETAILS MD9-OA 200 kW MTG
CF760491	1	-	1015F96	1	(NASA) YAW BRAKE ASSEMBLY (W) YAW BRAKE ASSY MD9-OA 200 kW WIND TURBINE GENERATOR
CD760492	1	-	1015F97	1	(NASA) YAW BRAKE DETAILS (W) YAW BRAKE DETAIL MD9-OA 200 kW WIND TURBINE GENERATOR
CD760493	1	-	1015F98	1	(NASA) YAW BRAKE DETAILS (W) YAW BRAKE DETAIL MD9-OA 200 kW WIND TURBINE GENERATOR

*All Westinghouse Drawings are Revision -

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Table 2 (Cont'd)

LIST OF DRAWINGS FOR THE MOD-OA 200 kW WIND TURBINE GENERATOR

CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

NASA LEWIS DRAWING NUMBER	NUMBER OF SHTS.	*REV	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHTS.	TITLE OF DRAWING
CF760494	1	B	1016F31	1	(NASA) ELECTRICAL-ELAPSE THE PANEL (W) ELAPSE TIME PANEL MOD-OA 200 kW WIND TURBINE GENERATOR
CF760495	1	C	1016F32	1	(NASA) ELECTRICAL-RECLOSER & CIRCUIT BREAKER NO. 2 ELEMENTARY & WIRING DIAGRAMS (W) RECLOSER & CIRCUIT BREAKER NO. 2 ELEMENTARY & WIRING DIAGRAMS MOD-OA 200 kW WIND TURBINE GENERATOR
CF760496	1	D	1016F33	1	(NASA) ELECTRICAL-CLIMATRONICS & REFERENCE PANEL CONNECTION DIAGRAM (W) ELECTRICAL CONNECTION DIAGRAM CLIMATRONICS & REFERENCE PANEL MOD-OA 200 kW WIND TURBINE GENERATOR
CF760497	1	B	1016F34	1	(NASA) ELECTRICAL-PITCH CONTROLLER INTERNAL TERMINATIONS (W) PITCH CONTROLLER INTERNAL TERMINATIONS MOD-OA 200 WTG
CC760500	1	-	1015F94	1	(NASA) SLIP RING COVER (W) DUBLIN MOUNT & SLIP RING DUST COVER MOD-OA 200 kW WTG
CC760504	1	B	1015F81	1	(NASA) HUB SEAL HOLDER (W) DETAILS MOD-OA 200 kW WIND TURBINE GENERATOR
CF760506	1	-	1015F95	2	(NASA) ELECTRICAL-LOW SPEED SHAFT STRAIN GAGE LOCATION CONNECTION DIAGRAM & INSTALLATION (W) ELECTRICAL-LOW SPEED SHAFT STRAIN GAGE LOCATION MOD-OA 200 kW WIND TURBINE GENERATOR
CC760512	1	-	1015F99	1	(NASA) FIXTURE FOR SEAL INSTALLATION (W) FIXTURES FOR SEAL INSTALLATION MOD-OA 200 kW WTG

All Westinghouse Drawings are Revision -

Sheet 16

Table 2 (Cont'd.)

LIST OF DRAWINGS FOR THE MOD-OA 200 KW WIND TURBINE GENERATOR
CORRELATION OF NASA LEWIS RESEARCH CENTER DRAWINGS TO WESTINGHOUSE DRAWINGS

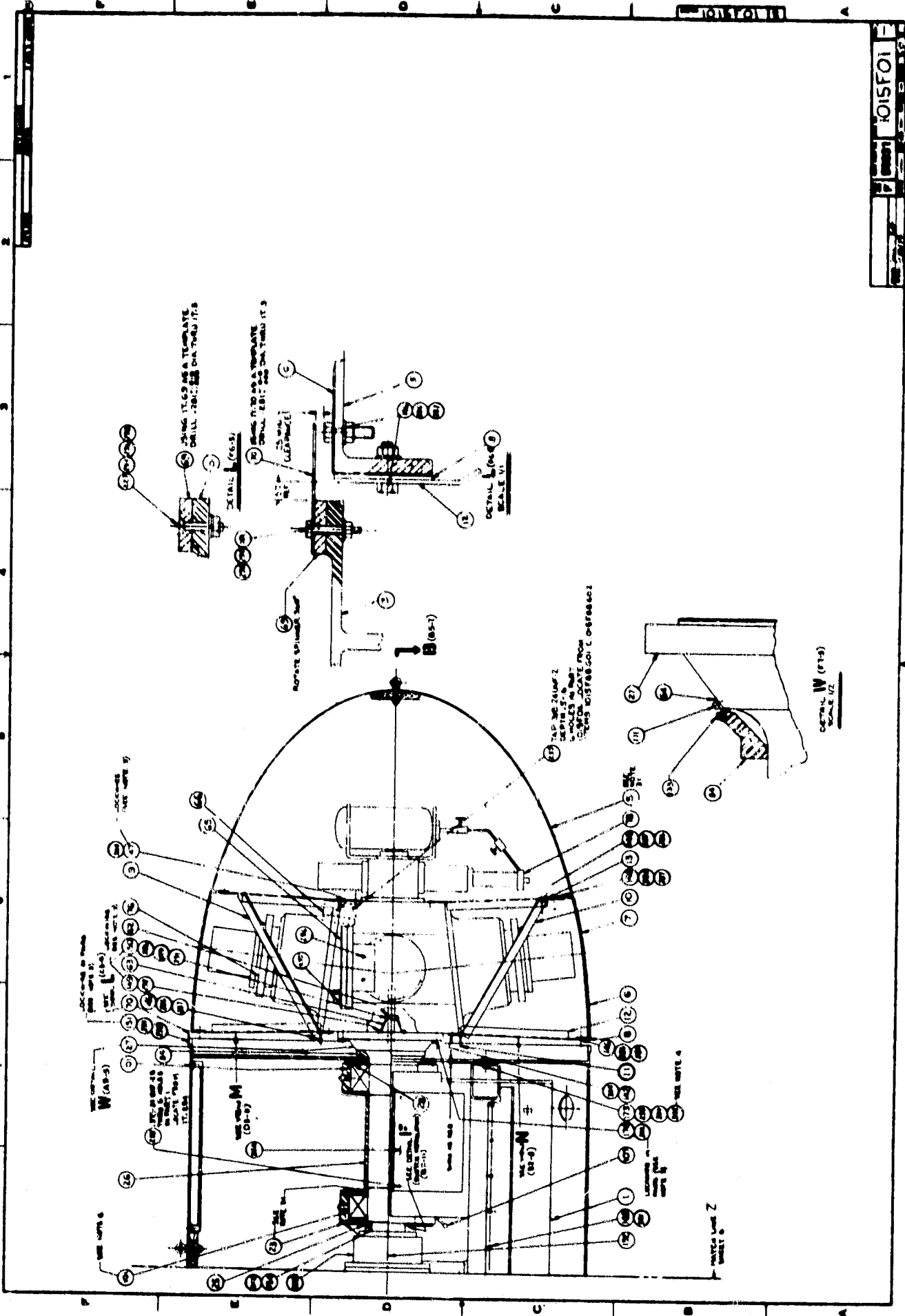
NASA LEWIS DRAWING NUMBER	NUMBER OF SHYS.	REV.	WESTINGHOUSE DRAWING NUMBER	NUMBER OF SHYS.	TITLE OF DRAWING
CD760513	1	-	1015F99	1	(NASA) SEAL INSTALLATION INSTRUCTIONS (W) FIXTURES FOR SEAL INSTALLATION MOD-OA 200 KW MTG
CF760520	1	-	1015F95	2	(NASA) ELECTRICAL-LOW SPEED SHAFT STRAIN GAGE LOCATION (W) ELECTRICAL-LOW SPEED SHAFT STRAIN GAGE LOCATION MOD-OA 200 KW WIND TURBINE GENERATOR
CF760546	1	-	1016F35	1	(NASA) ELECTRICAL-SYNCHRO-D.C. CONVERTER-AEROVANE TRANSLATER SCHEMATIC (W) SYNCHRO-D.C. CONVERTER AEROVANE TRANSLATOR SCHEMATIC MOD-OA 200 KW WIND TURBINE GENERATOR
CF760552	1	-	1016F36	1	(NASA) DAYTRONICS CONNECTION DIAGRAM-ELECTRICAL (W) DAYTRONICS CONNECTION DIAGRAM MOD-OA 200 KW MTG

*All Westinghouse Drawings are Revision -

Sheet 17

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DETAIL III (85-3)
SCALE 1/2"

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M (85-7)

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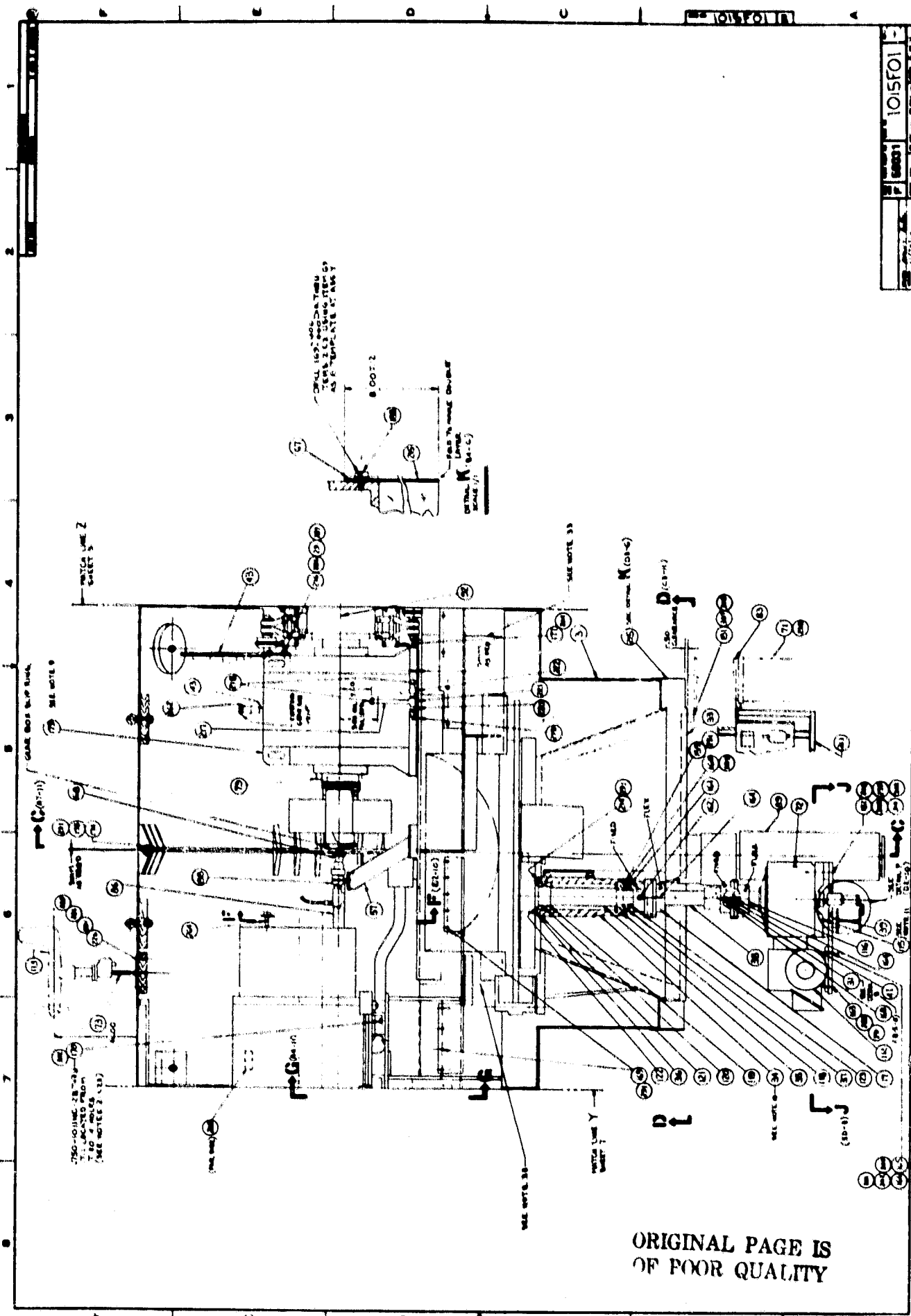
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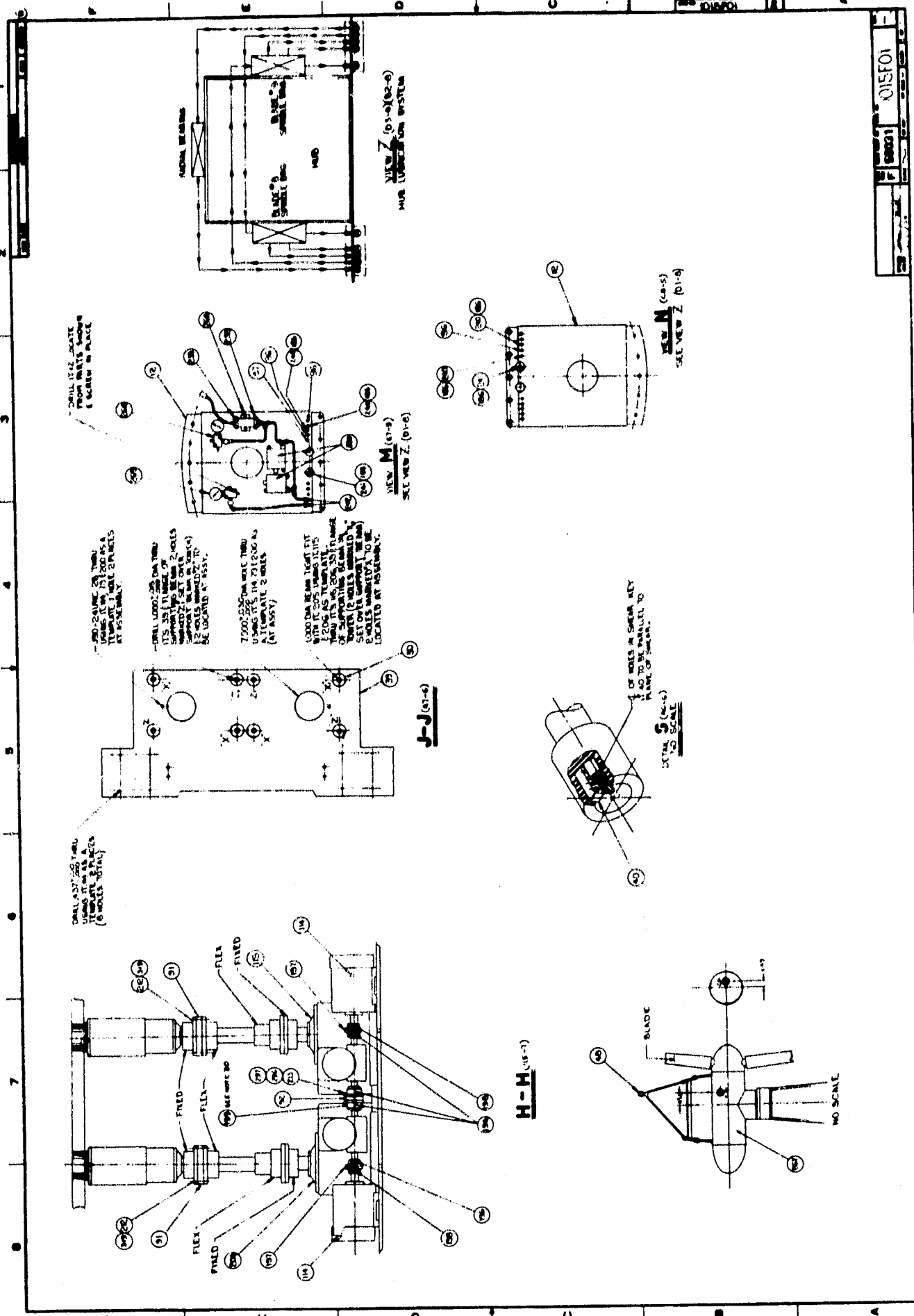
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VIEW M (01-9)
SEE VIEW Z (01-9)

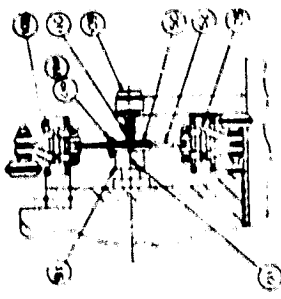
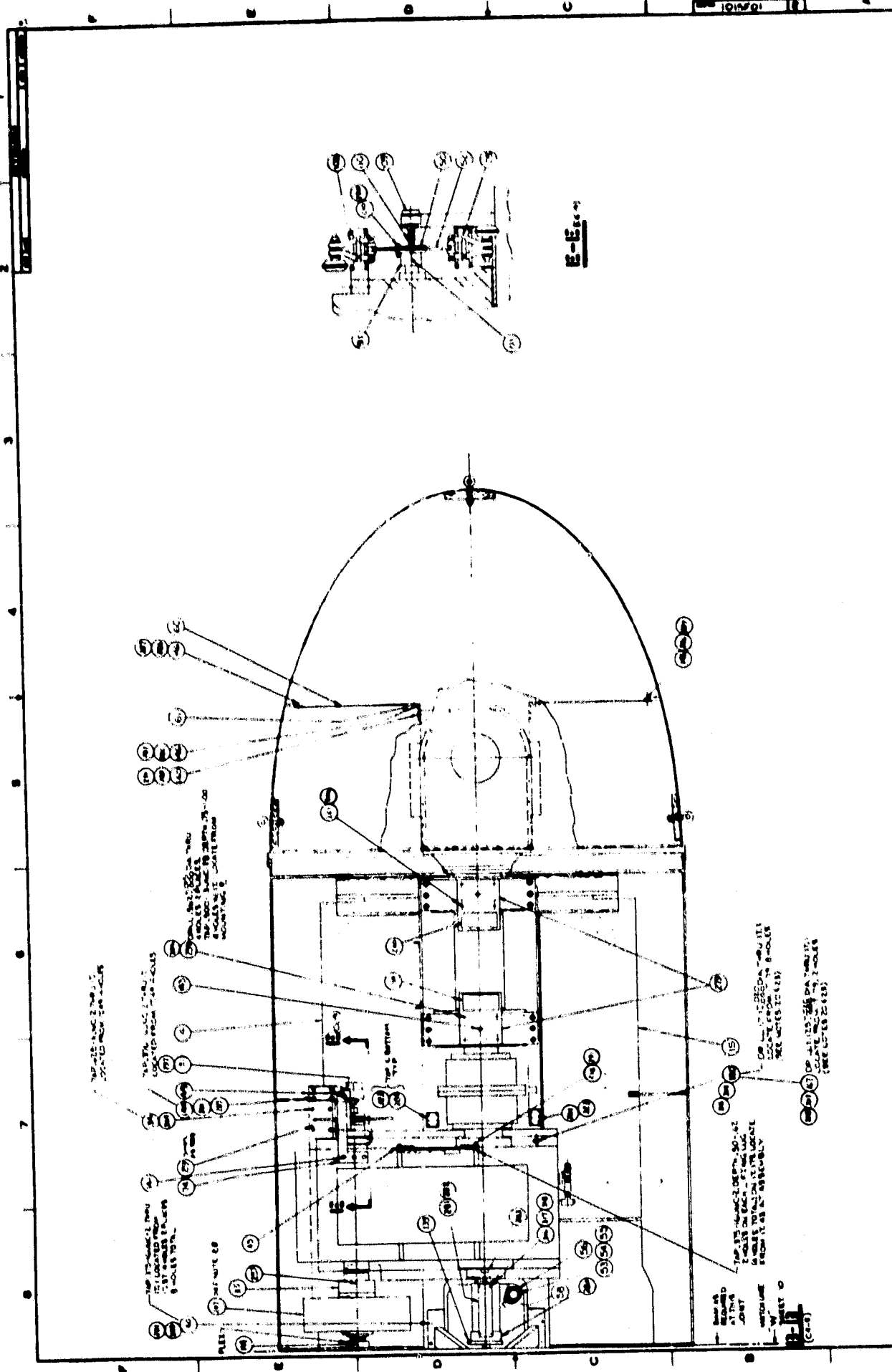
VIEW N (01-9)
SEE VIEW Z (01-9)

J-J (01-9)

H-H (01-7)

VIEW S (01-9)
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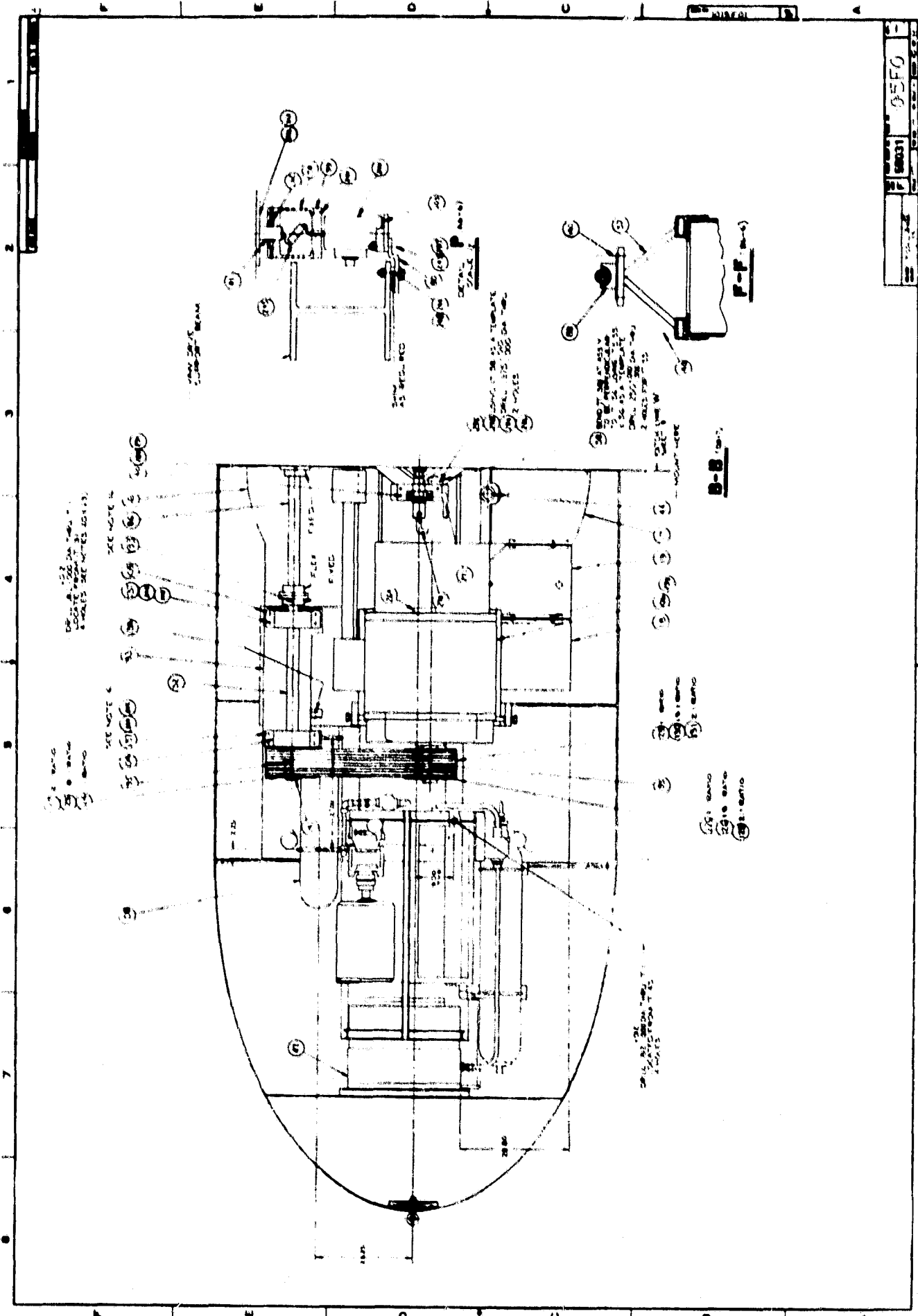
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QTY	DESCRIPTION	UNIT	REF
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32	5/16" DIA. X 1/2" LONG X 1/2" WIDE	STL	1015F03
33	5/16" DIA. X 1/2" LONG X 1/2" WIDE	STL	1015F03
34	5/16" DIA. X 1/2" LONG X 1/2" WIDE	STL	1015F03
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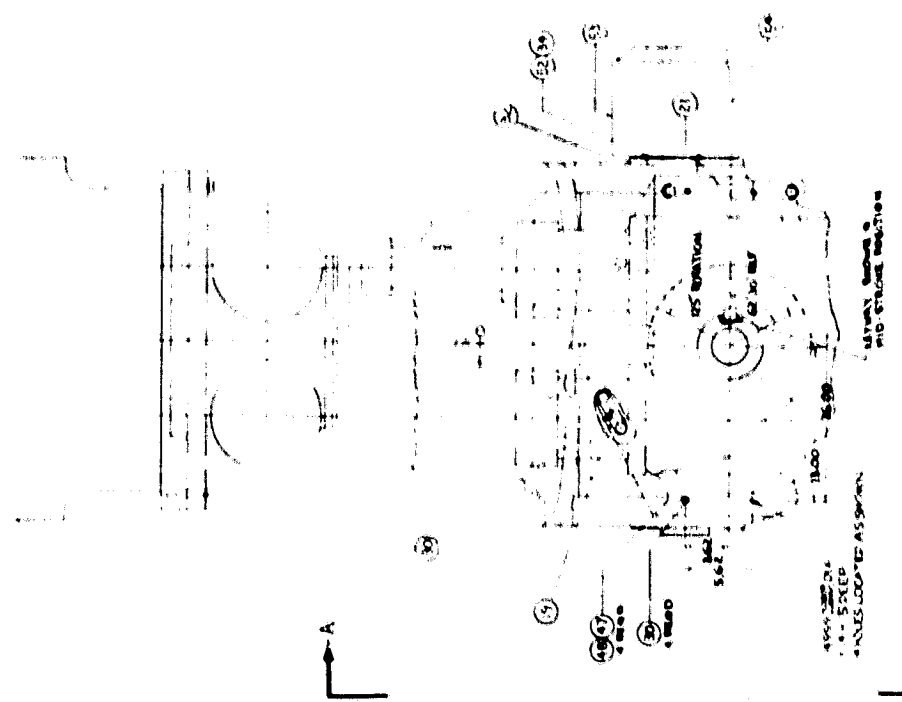
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PART NO. 1015F03

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PATCH CONTROL - 400 ASSY
1100 CA-200 CV
WIND TURBINE GENERATOR
1015F03

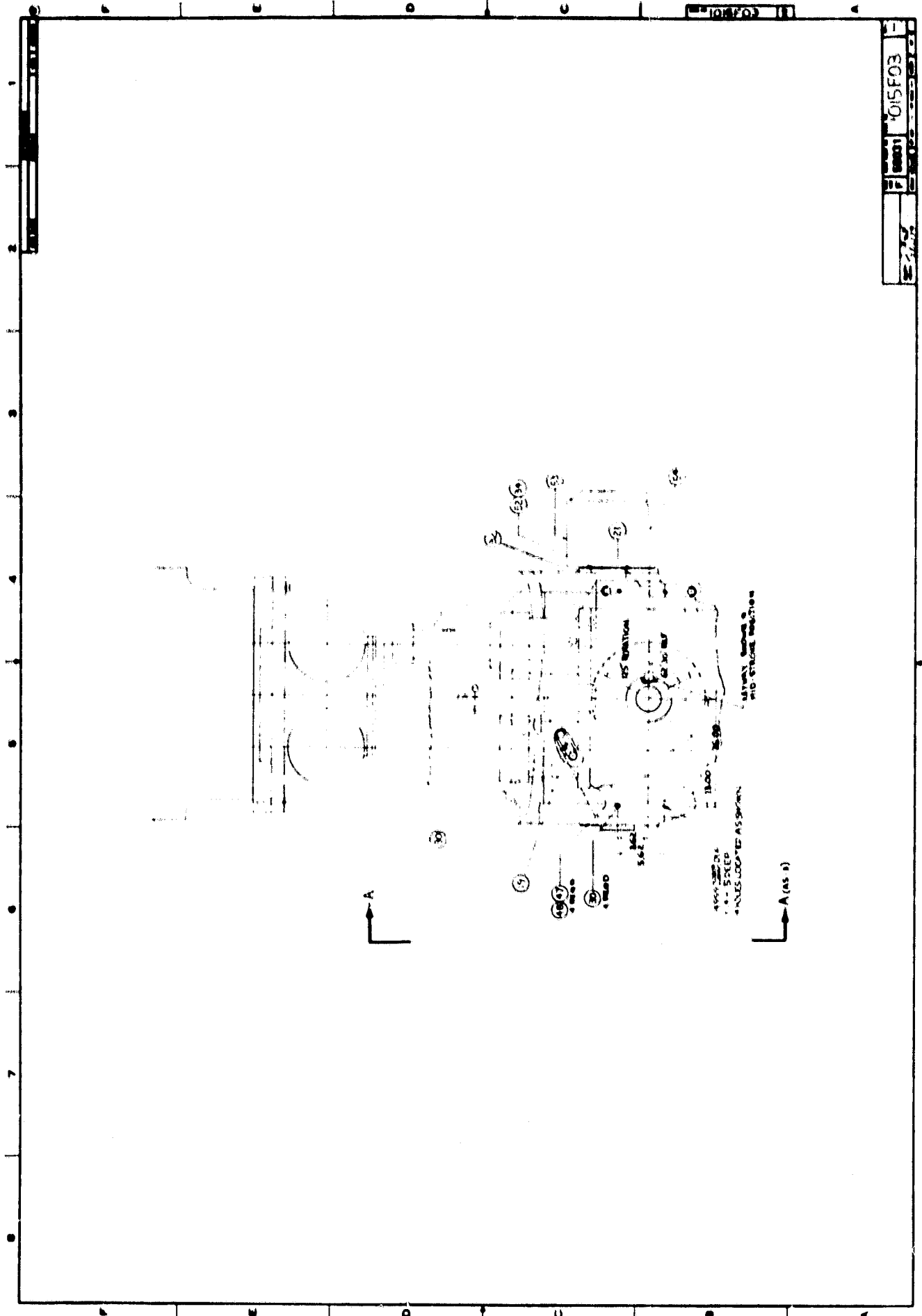
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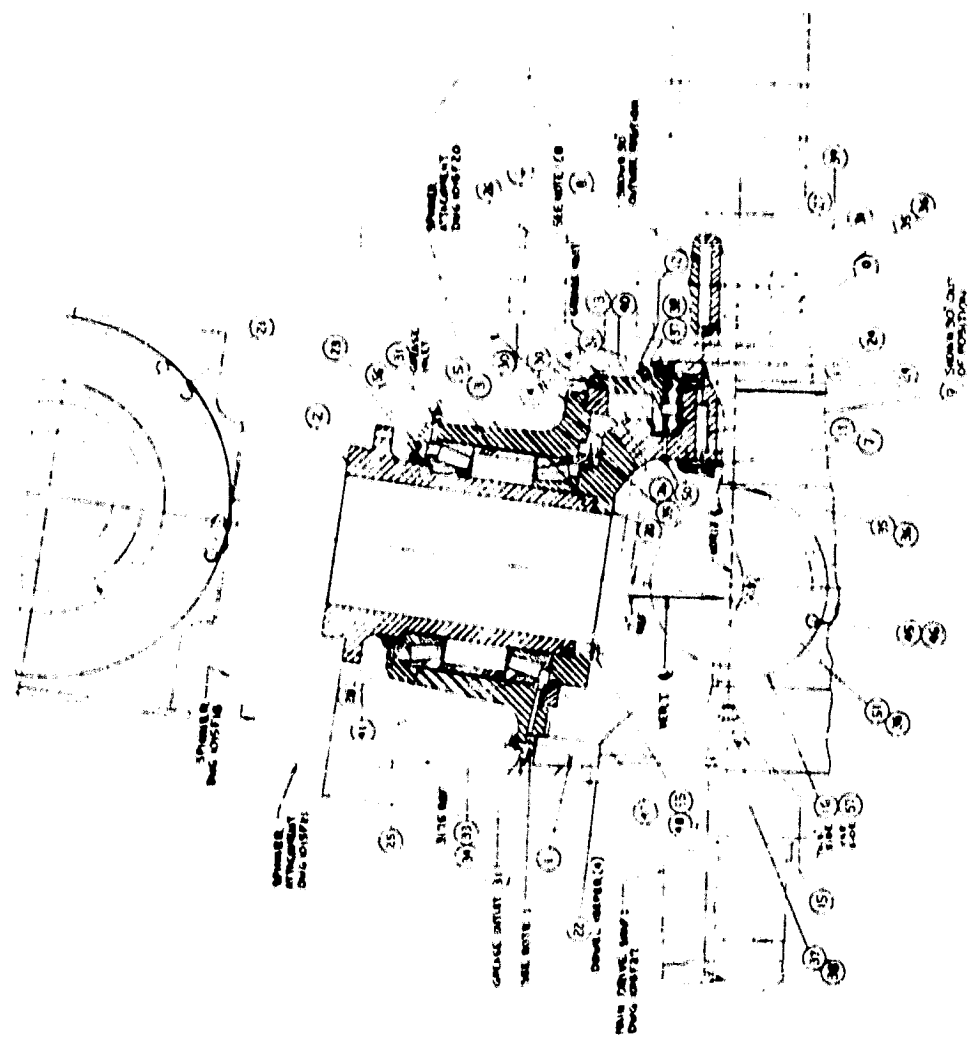
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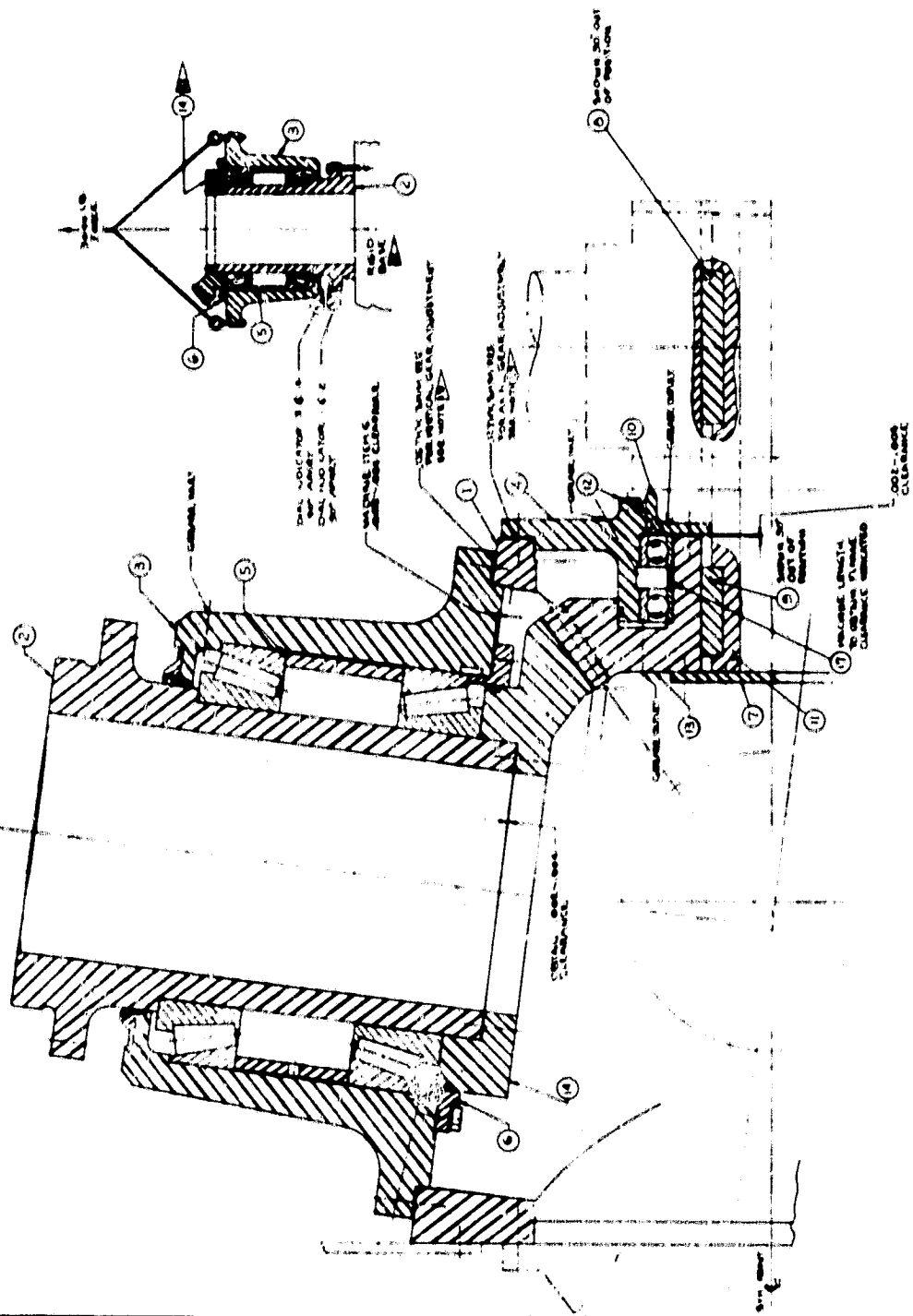
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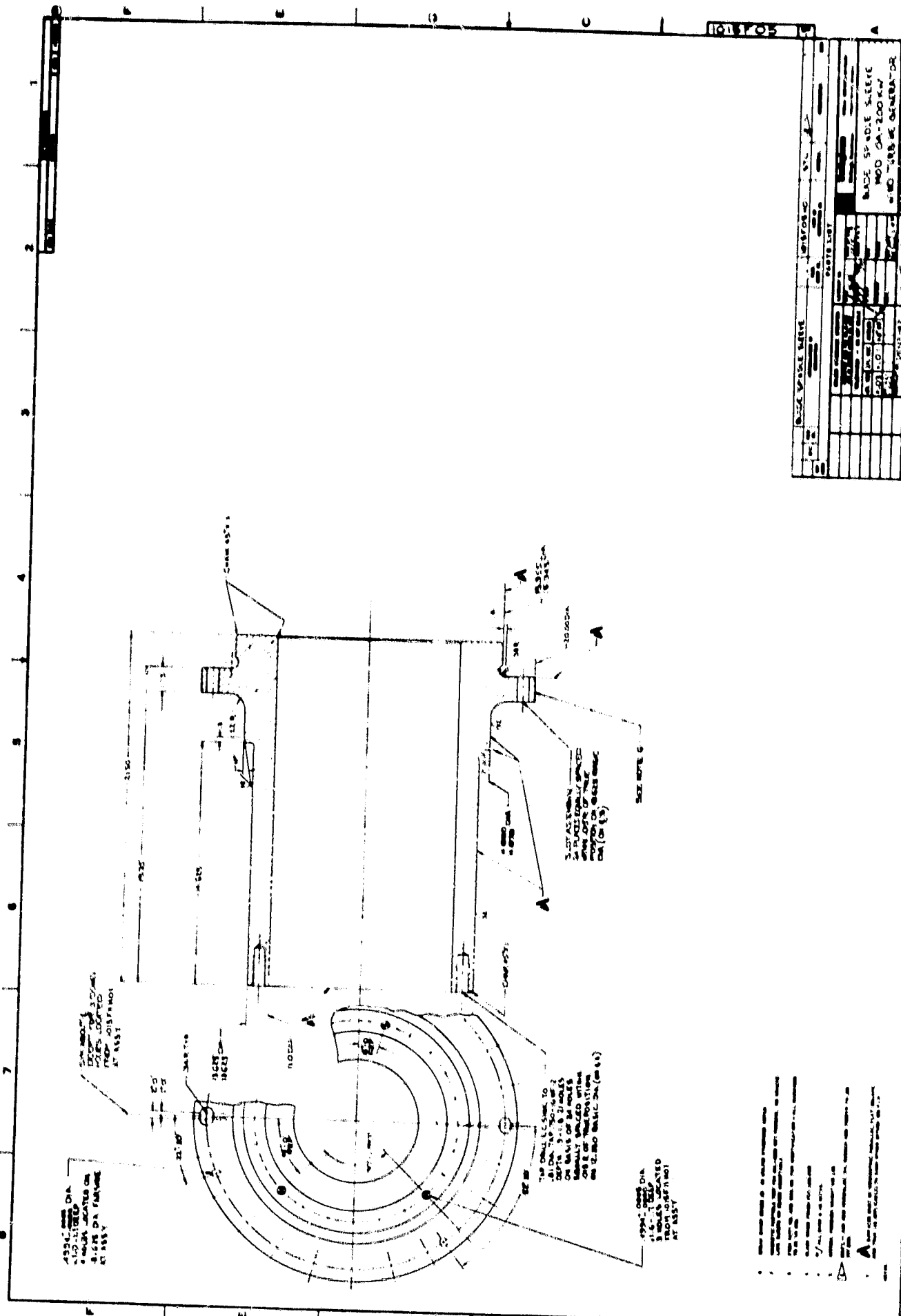


VIEW A-A (REV. 2)

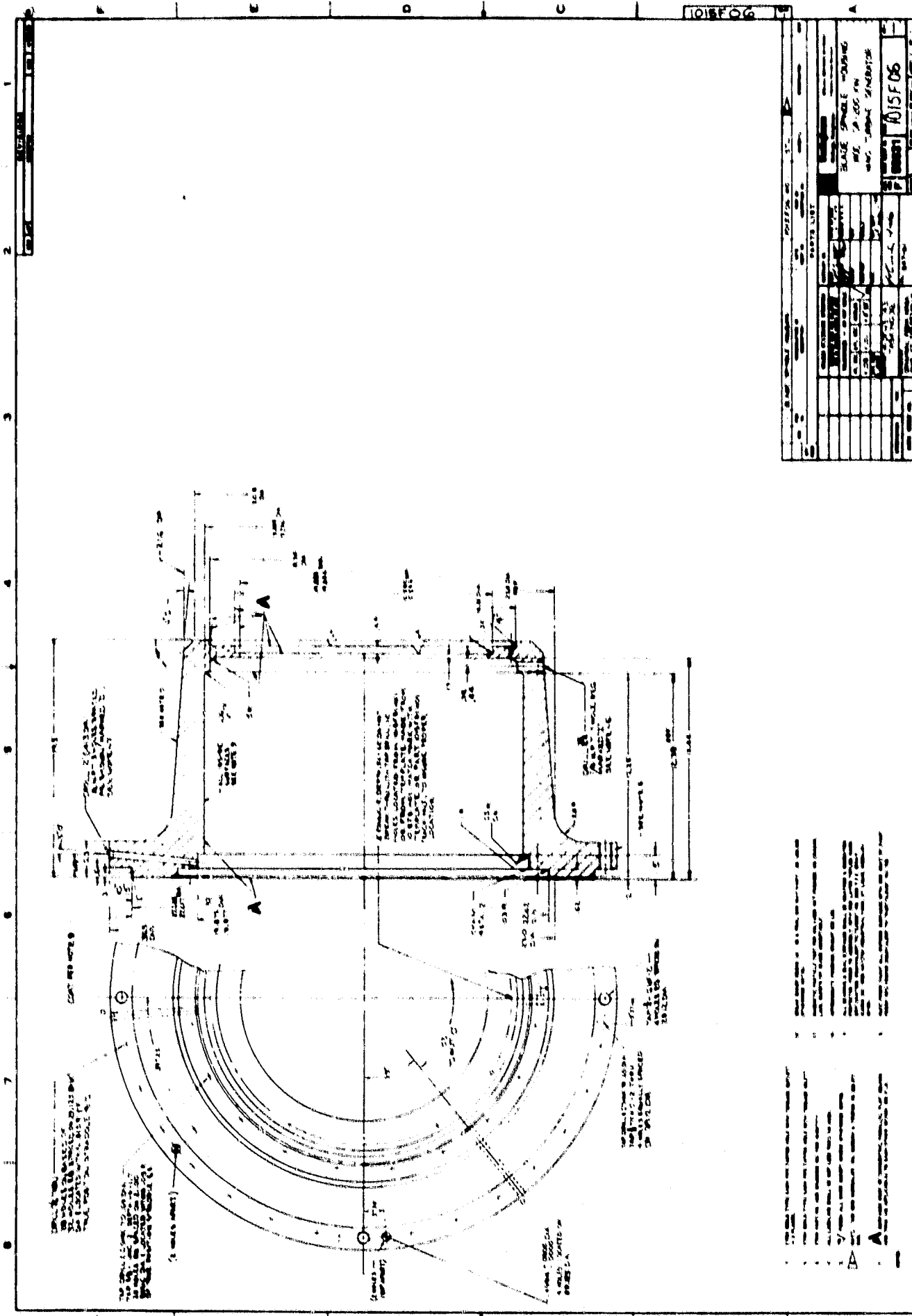
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BLADE SLEEVE ASSEMBLY		PARTS LIST	
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1	4324-198	DRILL	
1	4324-199	DRILL	
1	4324-200	DRILL	



1015F06

PROJECT NO.		DATE		DRAWN BY		CHECKED BY		APPROVED BY	
1015F06									
TITLE: BASE SINGLE DOME SCALE: 1/8" = 1'-0" DATE: 10/15/58									

1. THE WORK SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES.

5. THE CONTRACTOR SHALL MAINTAIN A SAFE WORKING ENVIRONMENT AT ALL TIMES.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ALL ADJACENT PROPERTIES.

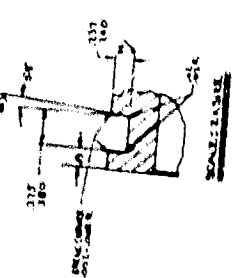
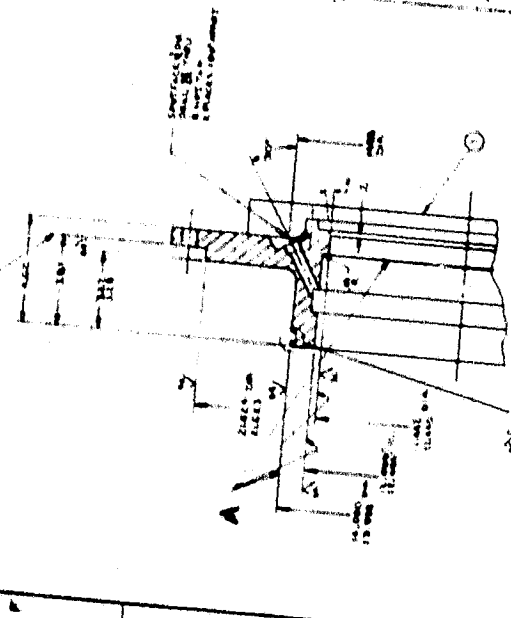
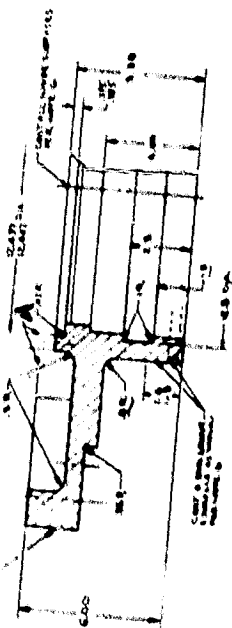
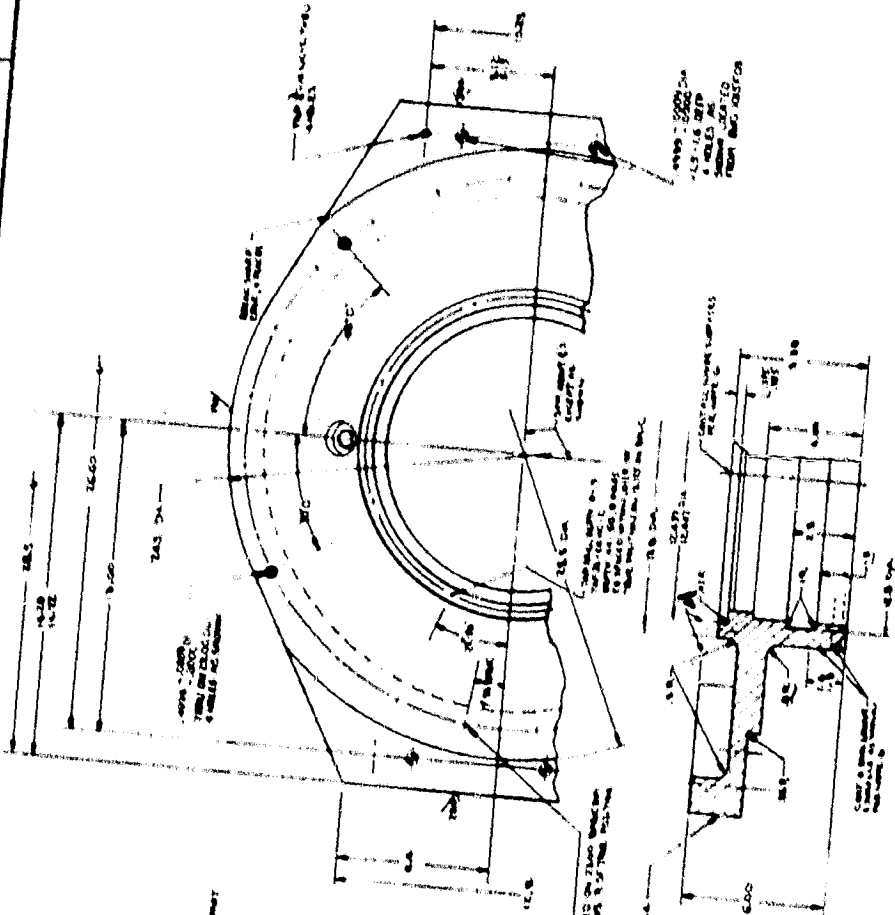
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ALL EXISTING UTILITIES AND STRUCTURES.

8. THE CONTRACTOR SHALL MAINTAIN A SAFE WORKING ENVIRONMENT AT ALL TIMES.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ALL ADJACENT PROPERTIES.

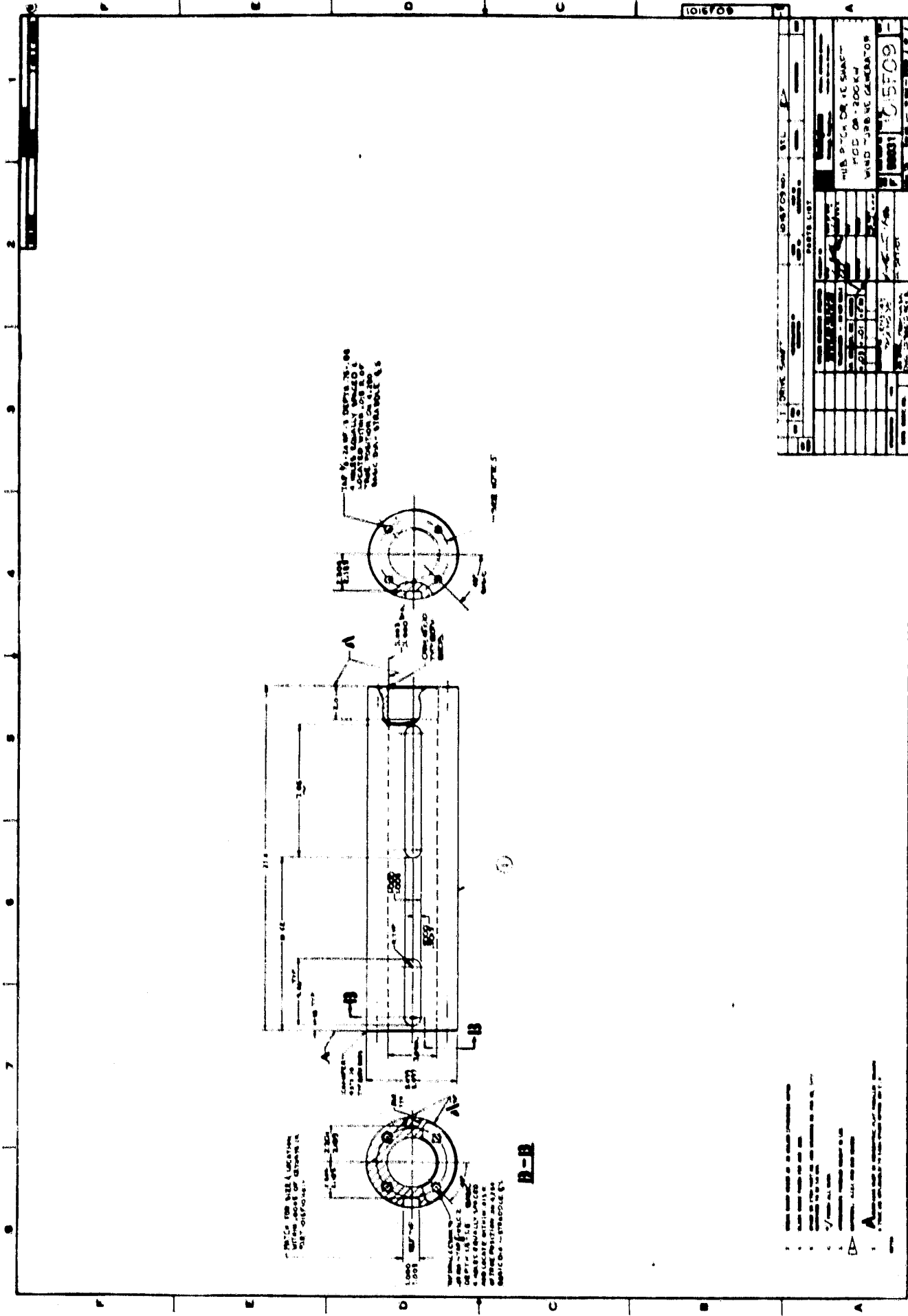
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ALL EXISTING UTILITIES AND STRUCTURES.

DATE		Dwg. No.		Scale		Proj. No.		Part No.	
<p>DRIVE SHAFT BRACKET</p> <p>2160 21-220-101</p> <p>DRIVE SHAFT SENSOR</p>									
<p>SCALE: 1:1</p>									
<p>DATE: 10/15/07</p>									
<p>BY: [Signature]</p>									
<p>CHECKED BY: [Signature]</p>									
<p>APPROVED BY: [Signature]</p>									
<p>DESIGNED BY: [Signature]</p>									
<p>CONTRACT NO. 53001</p>									
<p>PROJECT NO. 102 P 07</p>									
<p>PARTS LIST</p>									
<p>QTY. PART NO. DESCRIPTION</p>									



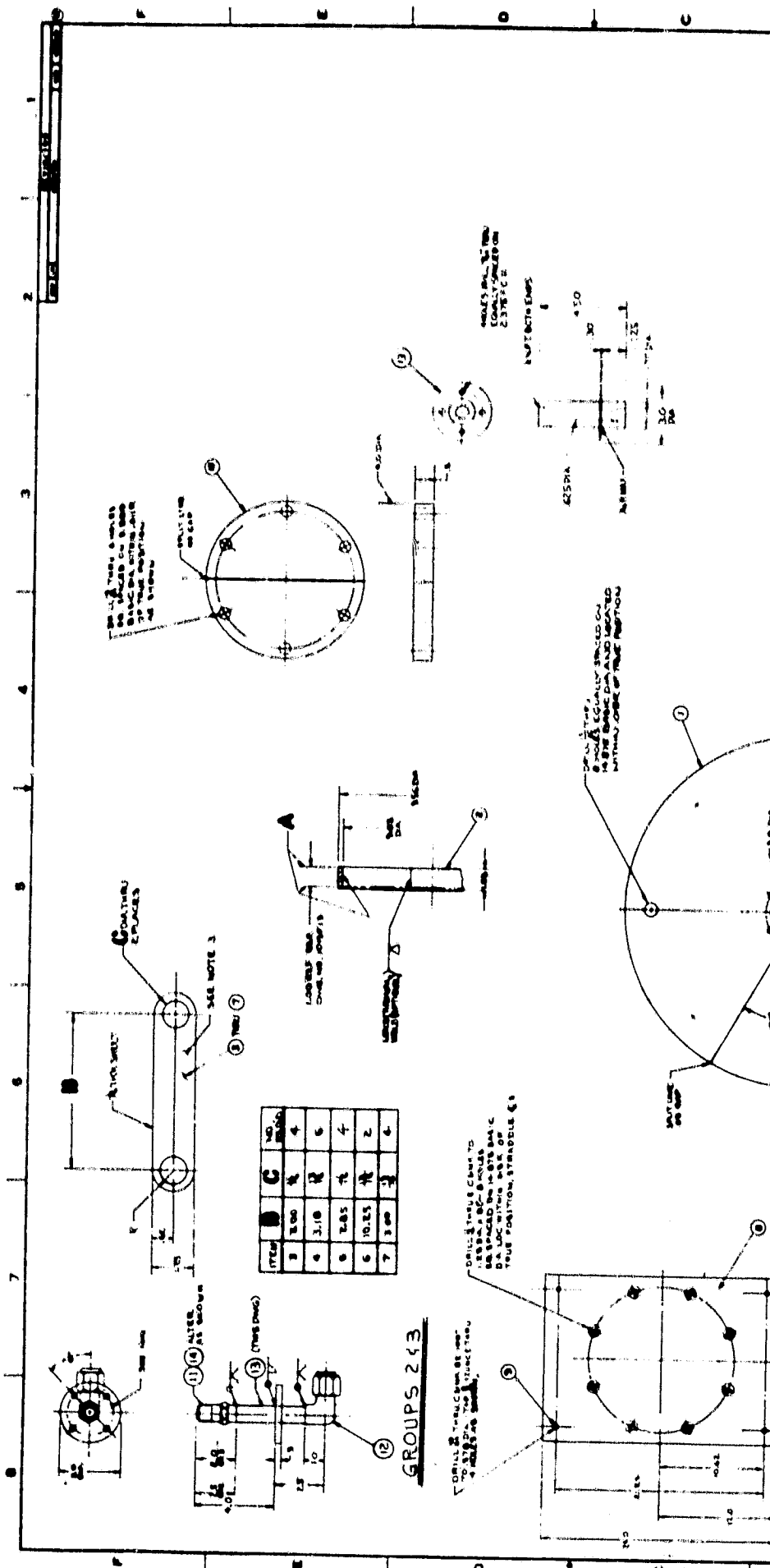
1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
 2. DIMENSIONS TO CENTER UNLESS OTHERWISE SPECIFIED.
 3. DIMENSIONS TO SURFACE UNLESS OTHERWISE SPECIFIED.
 4. DIMENSIONS TO THE CENTER OF THE HOLES UNLESS OTHERWISE SPECIFIED.
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 11. DIMENSIONS TO THE CENTER OF THE HOLES UNLESS OTHERWISE SPECIFIED.
 12. DIMENSIONS TO THE CENTER OF THE HOLES UNLESS OTHERWISE SPECIFIED.

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PARTS LIST	
QTY	DESCRIPTION
1	1016709-1
1	1016709-2
1	1016709-3
1	1016709-4
1	1016709-5
1	1016709-6
1	1016709-7
1	1016709-8
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1	1016709-99
1	1016709-100

- 1. THIS PART IS A CRITICAL PART AND MUST BE MADE TO SPECIFICATION.
- 2. THIS PART IS A CRITICAL PART AND MUST BE MADE TO SPECIFICATION.
- 3. THIS PART IS A CRITICAL PART AND MUST BE MADE TO SPECIFICATION.
- 4. THIS PART IS A CRITICAL PART AND MUST BE MADE TO SPECIFICATION.
- 5. THIS PART IS A CRITICAL PART AND MUST BE MADE TO SPECIFICATION.
- 6. THIS PART IS A CRITICAL PART AND MUST BE MADE TO SPECIFICATION.
- 7. THIS PART IS A CRITICAL PART AND MUST BE MADE TO SPECIFICATION.
- 8. THIS PART IS A CRITICAL PART AND MUST BE MADE TO SPECIFICATION.
- 9. THIS PART IS A CRITICAL PART AND MUST BE MADE TO SPECIFICATION.
- 10. THIS PART IS A CRITICAL PART AND MUST BE MADE TO SPECIFICATION.



ITEM	QTY	DESCRIPTION	UNIT	REF
1	1	FLANGE	FL	100-000-000
2	1	WASHER	W	100-000-000
3	1	NUT	N	100-000-000
4	1	LOCKWASHER	LW	100-000-000
5	1	WASHER	W	100-000-000
6	1	NUT	N	100-000-000
7	1	LOCKWASHER	LW	100-000-000

GROUP NO.	PART NO.	QUANTITY	UNIT
1	100-000-000	1	FL
2	100-000-000	1	W
3	100-000-000	1	N

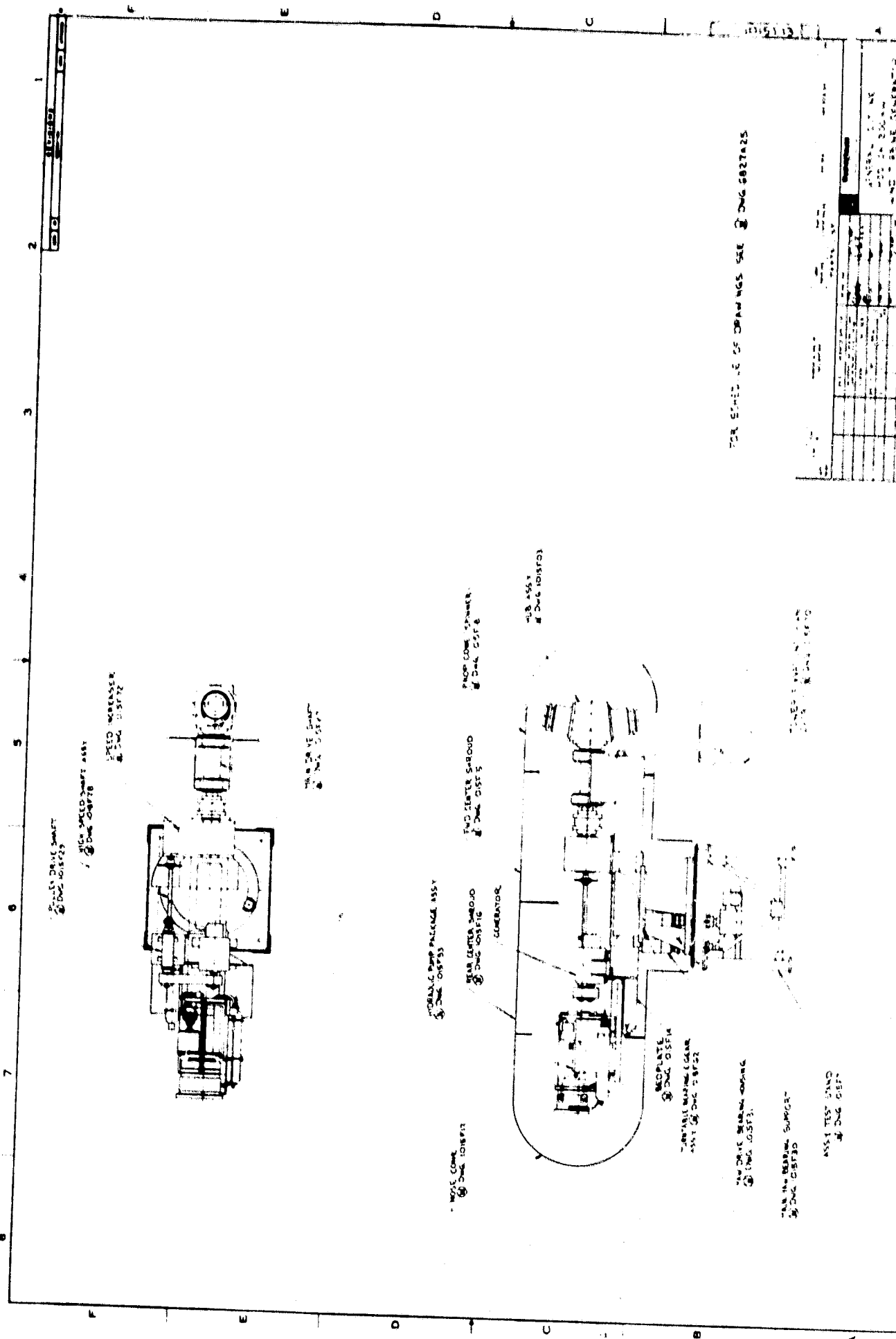
ITEM	QTY	DESCRIPTION	UNIT	REF
1	1	FLANGE	FL	100-000-000
2	1	WASHER	W	100-000-000
3	1	NUT	N	100-000-000
4	1	LOCKWASHER	LW	100-000-000
5	1	WASHER	W	100-000-000
6	1	NUT	N	100-000-000
7	1	LOCKWASHER	LW	100-000-000

GROUP NO.	PART NO.	QUANTITY	UNIT
1	100-000-000	1	FL
2	100-000-000	1	W
3	100-000-000	1	N

ORIGINAL PAGE IS OF POOR QUALITY

GROUP-1

- 1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
- 2. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 3. DIMENSIONS ARE TO THE BASIC DIMENSION UNLESS OTHERWISE SPECIFIED.
- 4. DIMENSIONS ARE TO THE POSITION UNLESS OTHERWISE SPECIFIED.
- 5. DIMENSIONS ARE TO THE POSITION UNLESS OTHERWISE SPECIFIED.
- 6. DIMENSIONS ARE TO THE POSITION UNLESS OTHERWISE SPECIFIED.
- 7. DIMENSIONS ARE TO THE POSITION UNLESS OTHERWISE SPECIFIED.
- 8. DIMENSIONS ARE TO THE POSITION UNLESS OTHERWISE SPECIFIED.
- 9. DIMENSIONS ARE TO THE POSITION UNLESS OTHERWISE SPECIFIED.
- 10. DIMENSIONS ARE TO THE POSITION UNLESS OTHERWISE SPECIFIED.



WASIC DRIVE SHAFT
 (3) Dwg. 038724

WASIC SPEED SHAFT ASSEMBLY
 (3) Dwg. 038778

SPEED BREAKER
 (4) Dwg. 038772

WASIC VE SHAFT
 (3) Dwg. 038740

WASIC WPP PELLETS ASSEMBLY
 (3) Dwg. 038753

WASIC VE SHAFT
 (3) Dwg. 038740

WASIC VE SHAFT
 (3) Dwg. 038740

WASIC VE SHAFT
 (3) Dwg. 038740

WASIC COME
 (3) Dwg. 038726

WASIC VE SHAFT
 (3) Dwg. 038740

GENERATOR

WASIC VE SHAFT
 (3) Dwg. 038740

WASIC VE SHAFT
 (3) Dwg. 038740

WASIC VE SHAFT
 (3) Dwg. 038740

WASIC VE SHAFT
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WASIC VE SHAFT
 (3) Dwg. 038740

WASIC VE SHAFT
 (3) Dwg. 038740

FOR SCHEDULE OF DRAWINGS SEE Dwg 038722

REVISIONS		DATE	BY	CHK'D BY
1	INITIAL DESIGN			
2	REVISED DRAWING			
3	REVISED DRAWING			
4	REVISED DRAWING			
5	REVISED DRAWING			
6	REVISED DRAWING			
7	REVISED DRAWING			
8	REVISED DRAWING			
9	REVISED DRAWING			
10	REVISED DRAWING			

WASIC VE SHAFT	(3) Dwg. 038740
WASIC VE SHAFT	(3) Dwg. 038740
WASIC VE SHAFT	(3) Dwg. 038740
WASIC VE SHAFT	(3) Dwg. 038740
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WASIC VE SHAFT	(3) Dwg. 038740

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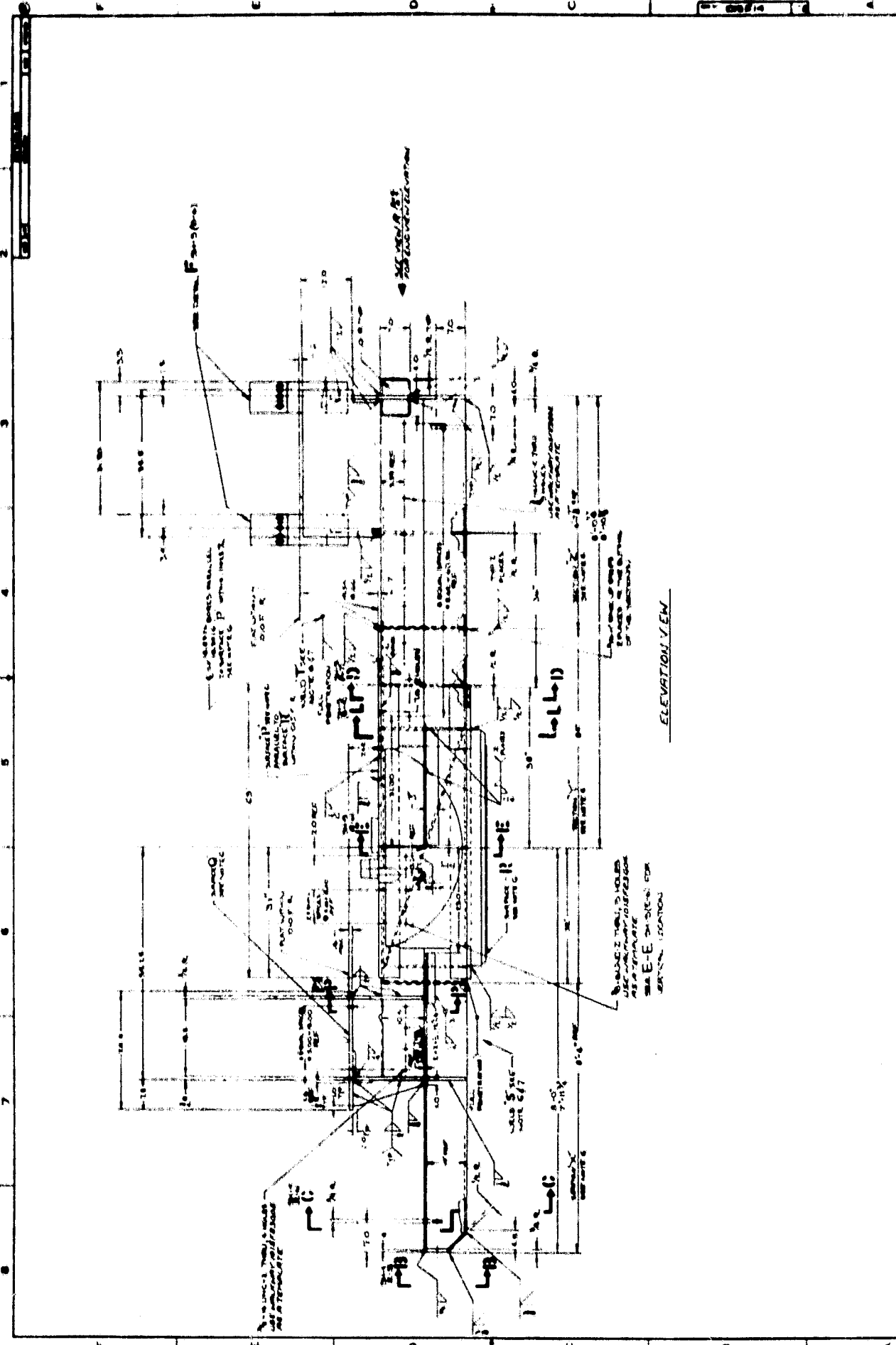
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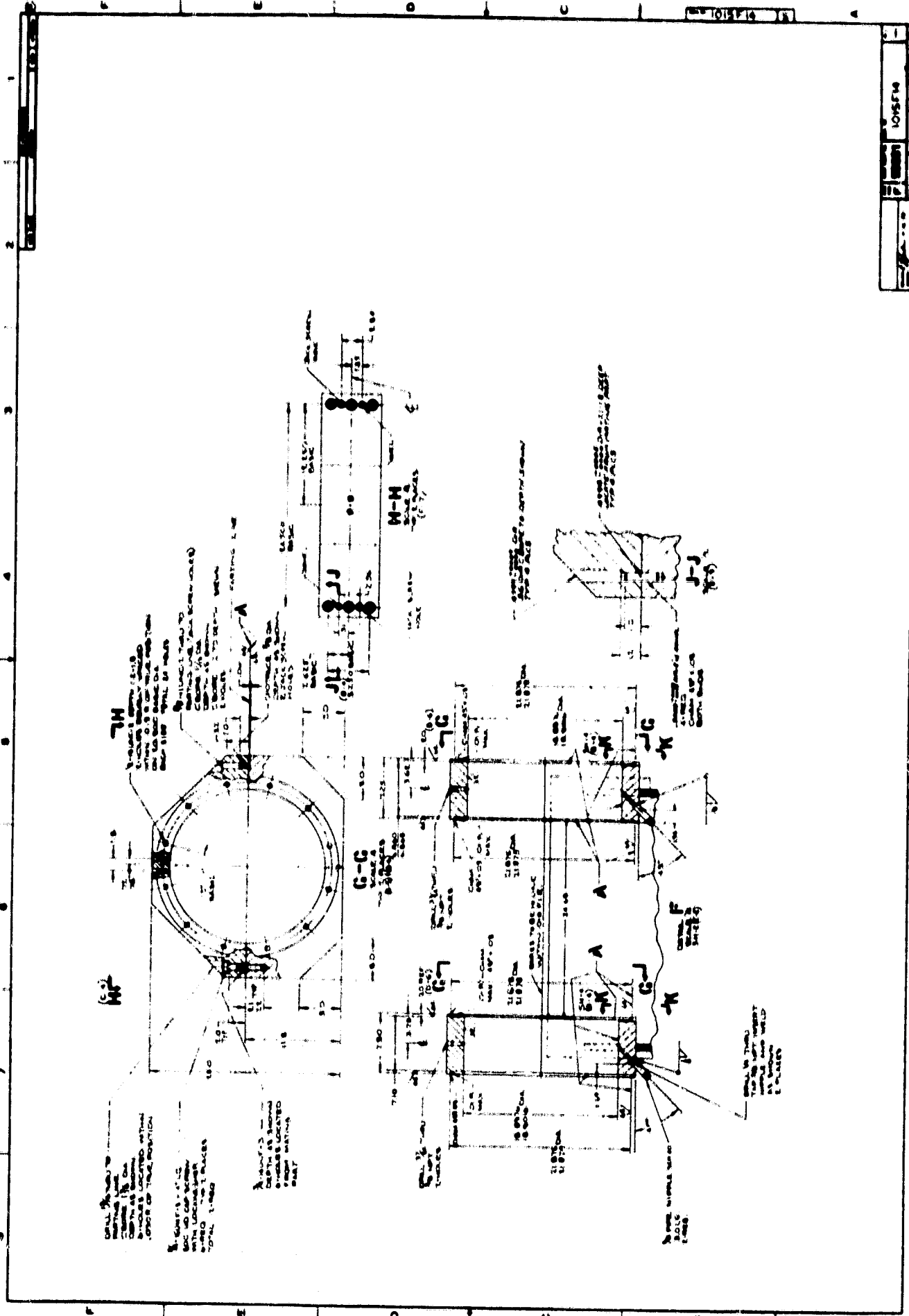
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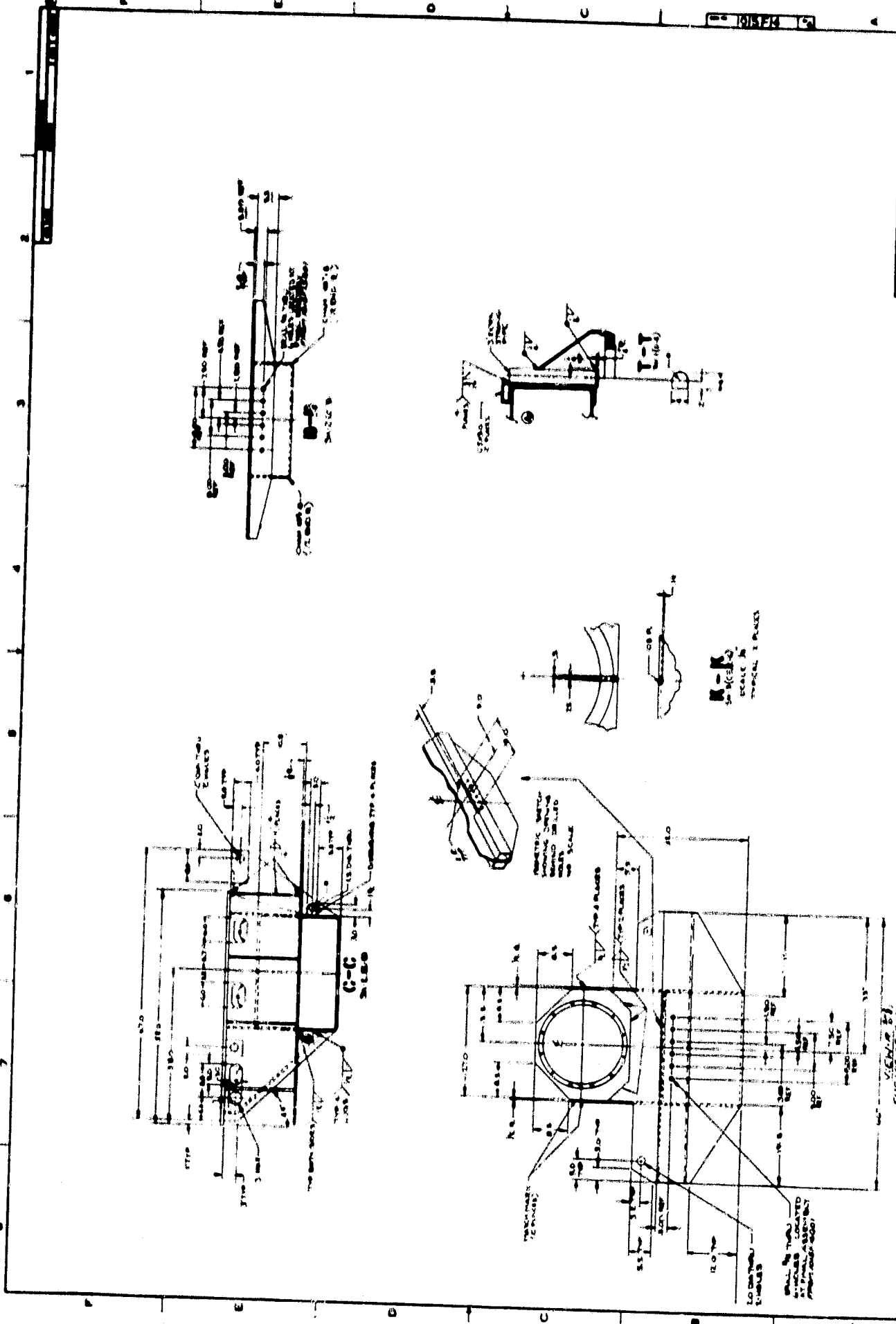
038800



ELEVATION VIEW

SEE PLAN F-3-3(10)
SEE PLAN F-3-3(11)
SEE PLAN F-3-3(12)
SEE PLAN F-3-3(13)
SEE PLAN F-3-3(14)
SEE PLAN F-3-3(15)
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SEE PLAN F-3-3(50)





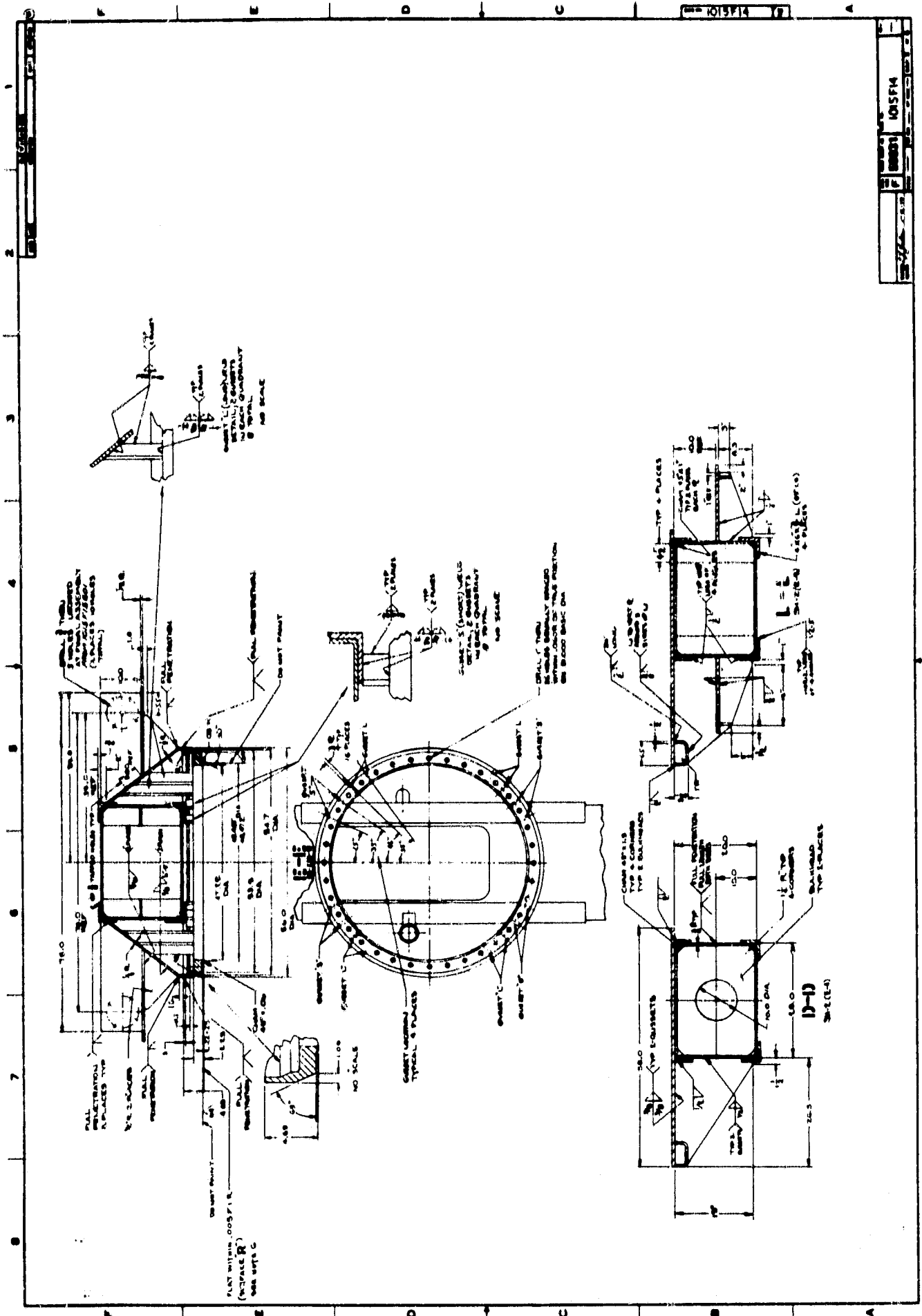
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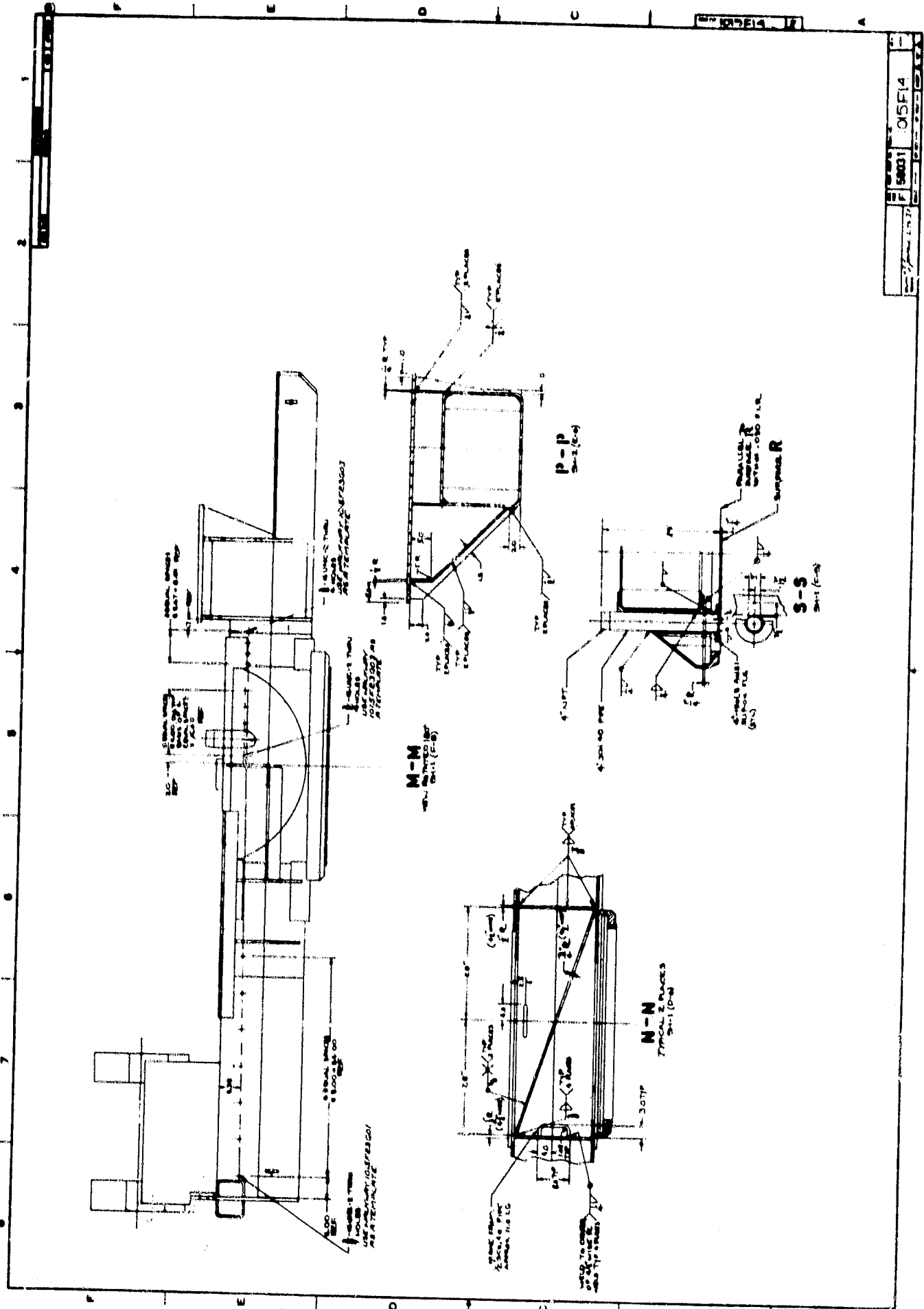
RENDERING IN THIS VIEW BY SUGGESTION

SCALE IN FIGURES

TYPICAL 1 PLACE

DIMENSIONS TO CENTER UNLESS OTHERWISE SPECIFIED





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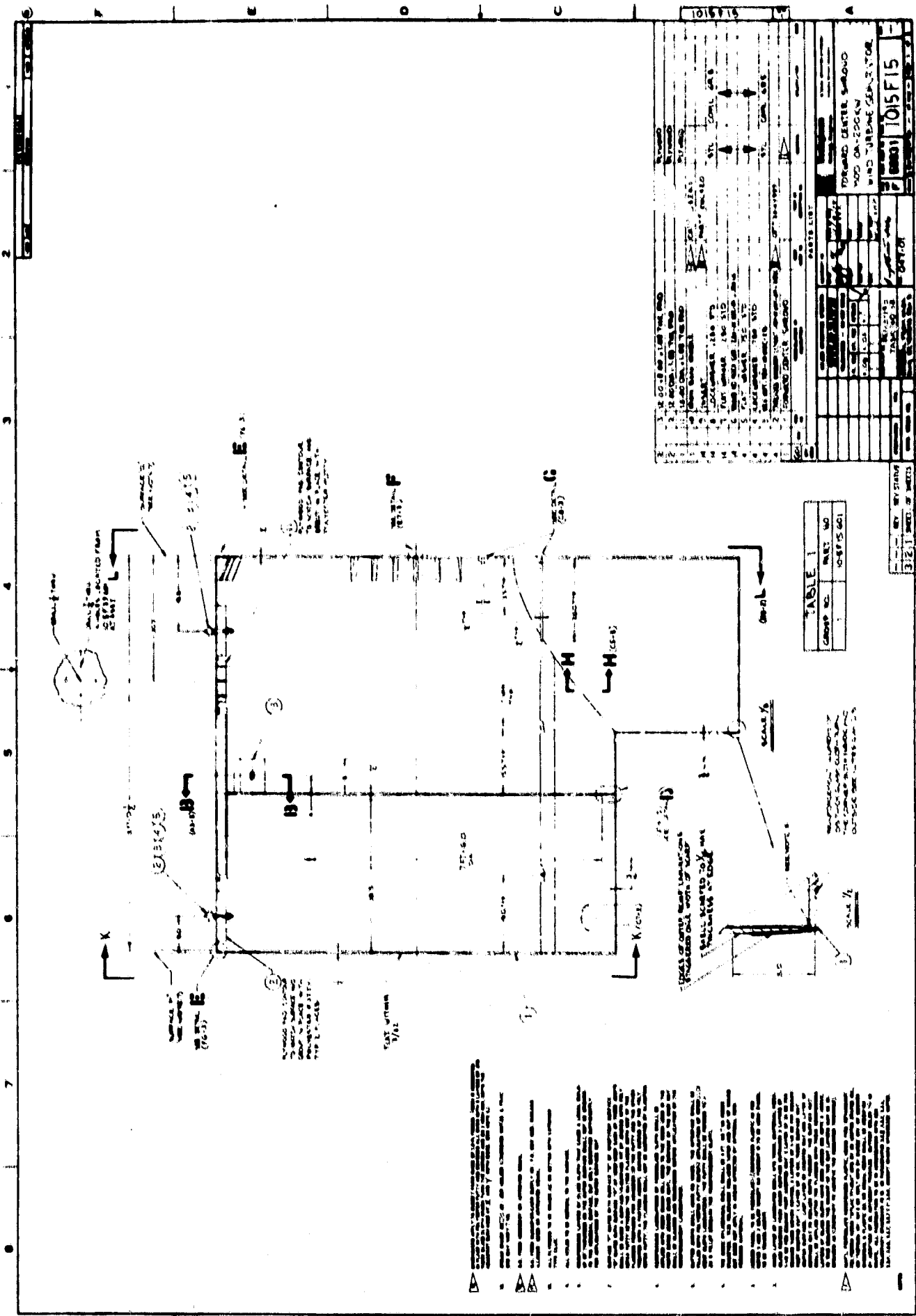


TABLE 1

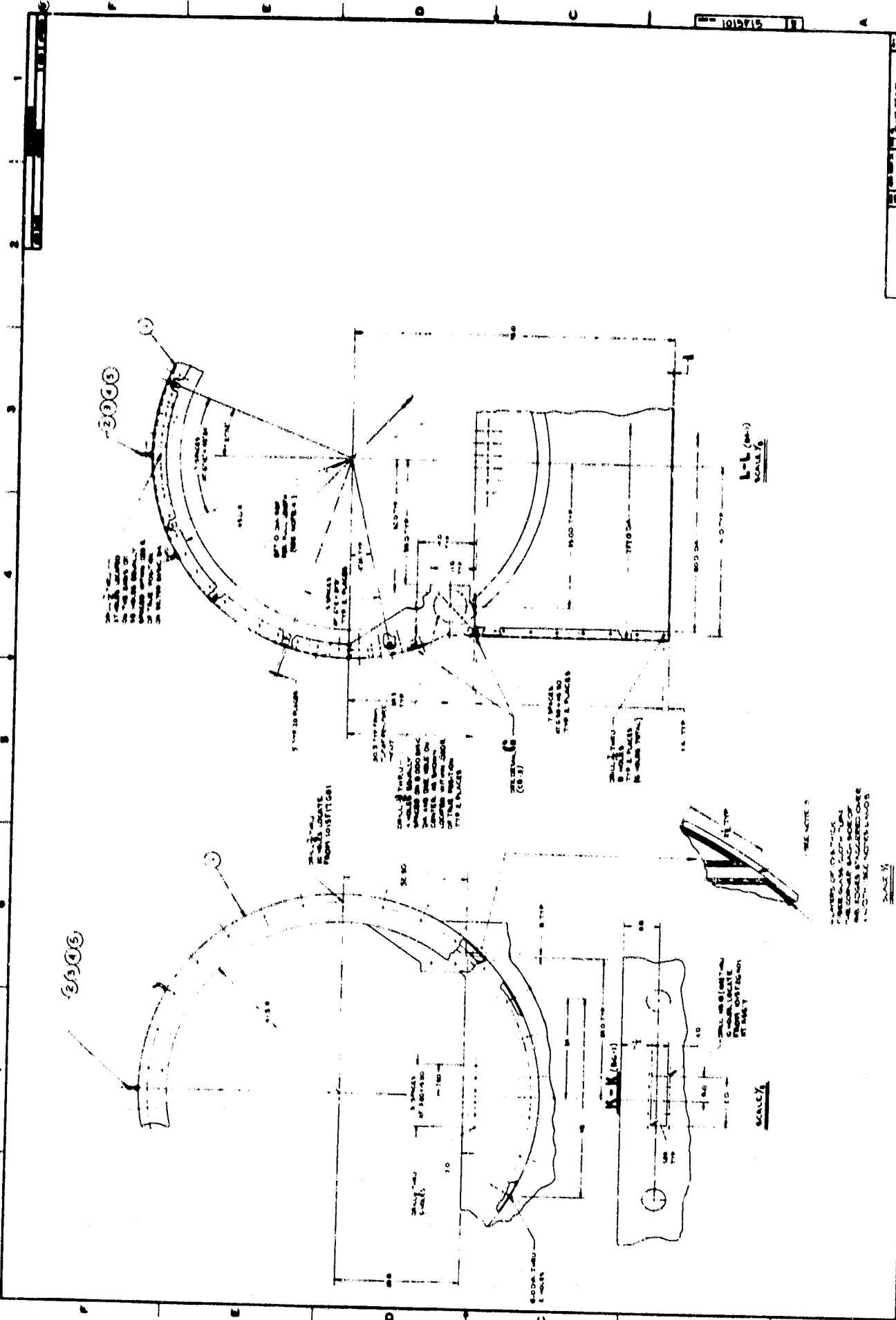
COMP. NO.	REV.	DATE

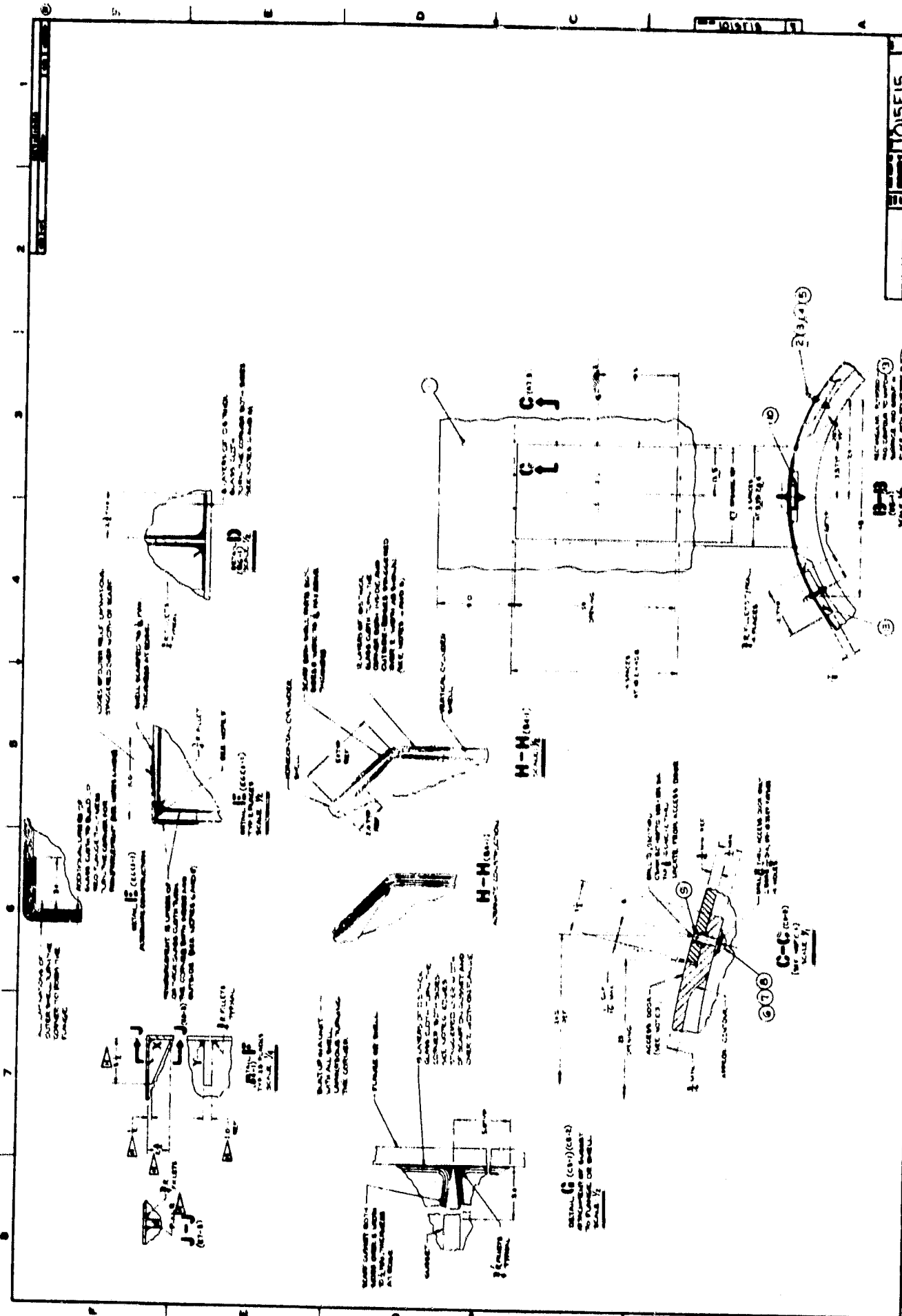
REV. STATION
321

NO.	DESCRIPTION	DATE
1	FORWARD CENTER SALOON	
2	WIND TURBINE GENERATOR	
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1015F15

- 1. ALL DIMENSIONS ARE IN FEET AND INCHES.
- 2. ALL WALLS ARE 8" THICK UNLESS OTHERWISE NOTED.
- 3. ALL FLOORS ARE 4" CONCRETE ON 2" INSULATION ON 4" GYP. BOARD UNLESS OTHERWISE NOTED.
- 4. ALL CEILING ARE 5" GYP. BOARD UNLESS OTHERWISE NOTED.
- 5. ALL ROOF ARE 4" CONCRETE ON 2" INSULATION ON 4" GYP. BOARD UNLESS OTHERWISE NOTED.
- 6. ALL DOORS ARE 6' 0" HIGH UNLESS OTHERWISE NOTED.
- 7. ALL WINDOWS ARE 6' 0" HIGH UNLESS OTHERWISE NOTED.
- 8. ALL STAIRS ARE 10' 0" WIDE UNLESS OTHERWISE NOTED.
- 9. ALL ELEVATIONS ARE IN FEET AND INCHES.
- 10. ALL FINISHES ARE AS NOTED.
- 11. ALL MATERIALS ARE AS NOTED.
- 12. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS.
- 13. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE DRAWINGS.
- 14. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE CONTRACT.
- 15. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE PERMITS.
- 16. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE LAWS.
- 17. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE REGULATIONS.
- 18. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE ORDINANCES.
- 19. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE DECREES.
- 20. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE STATUTES.
- 21. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE ACTS.
- 22. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE ORDINANCES.
- 23. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE REGULATIONS.
- 24. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE DECREES.
- 25. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE STATUTES.
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- 27. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE ORDINANCES.
- 28. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE REGULATIONS.
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- 47. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE ORDINANCES.
- 48. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE REGULATIONS.
- 49. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE DECREES.
- 50. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE STATUTES.





10515
 10515
 SCALE 1/4" = 1'-0"
 DATE 1/15/51

5
C-C (CP-1)
 (SEE NOTES)
 SCALE 1/2" = 1'-0"

6
C-I

H-M (80-1)
 SCALE 1/2" = 1'-0"

H-M (80-2)
 SCALE 1/2" = 1'-0"

6
(CP-1)(C-12)
 SECTION OF CORNER
 OF BRICK
 SCALE 1/2" = 1'-0"

7
F (CP-1)
 (SEE NOTES)
 SCALE 1/2" = 1'-0"

8
D
 SECTION OF WALL
 WITH CORNER
 OF BRICK
 SCALE 1/2" = 1'-0"

4
 MAKE SURE WALLS WITH
 CORNER OF BRICK
 ARE PROPERLY
 BUILT UP WITH
 REINFORCING
 BARS
 AND
 PROTECTIVE
 COATING

ACCESS DOOR
 (SEE NOTES)
 FROM ACCESS DOOR
 TO ACCESS DOOR

BUILD UP WALL
 WITH ALL WALL
 UNLESS OTHERWISE
 SHOWN

MAKE SURE WITH
 CORNER OF BRICK
 ARE PROPERLY
 BUILT UP WITH
 REINFORCING
 BARS
 AND
 PROTECTIVE
 COATING

ADDITIONAL LAYER OF
 BRICK TO BUILD UP
 CORNER OF BRICK
 AND CORNER OF BRICK
 TO PROTECTIVE
 COATING

CORNER OF BRICK
 WITH CORNER
 OF BRICK

ADDITIONAL LAYER OF
 BRICK TO BUILD UP
 CORNER OF BRICK
 AND CORNER OF BRICK
 TO PROTECTIVE
 COATING

ADDITIONAL LAYER OF
 BRICK TO BUILD UP
 CORNER OF BRICK
 AND CORNER OF BRICK
 TO PROTECTIVE
 COATING

CORNER OF BRICK
 WITH CORNER
 OF BRICK

CORNER OF BRICK
 WITH CORNER
 OF BRICK

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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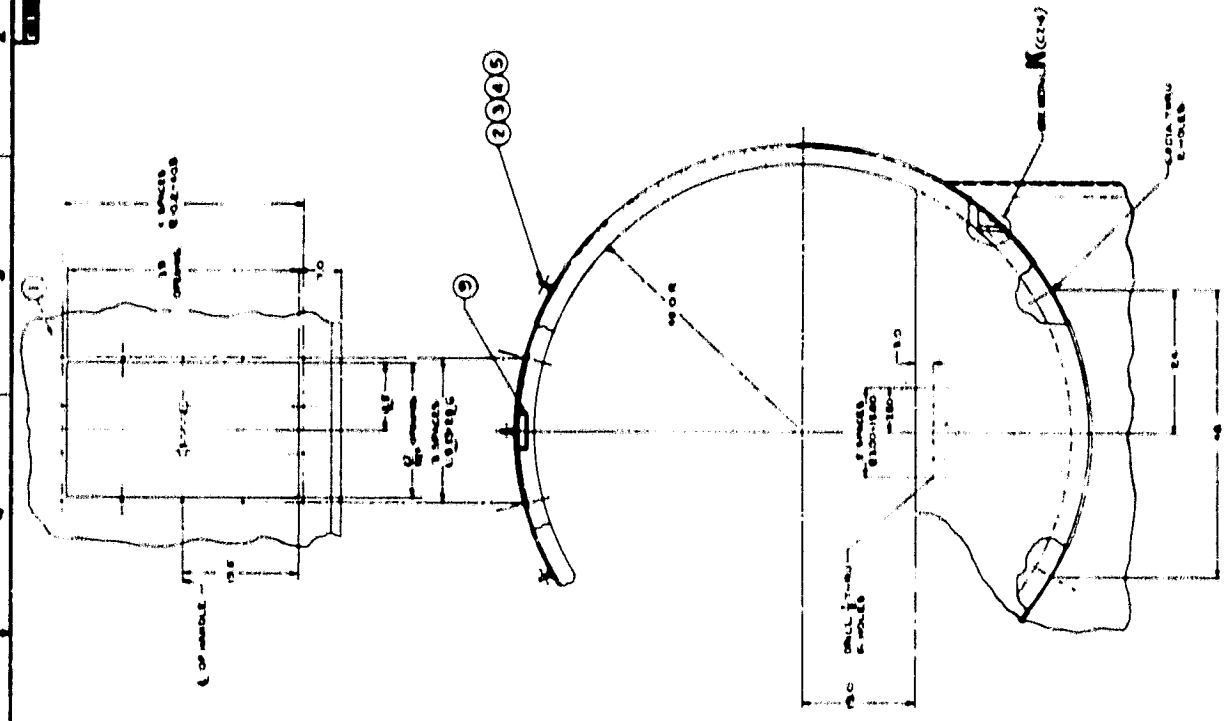
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 DATE 10/15/66

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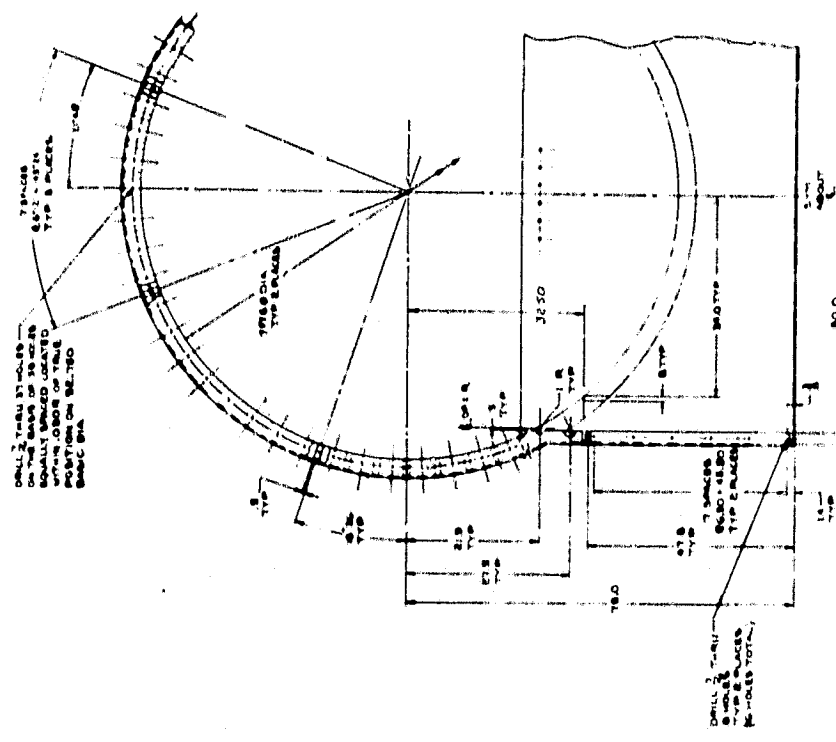
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 MOD. GA. 200 IN.
 WIND TURBINE GENERATOR

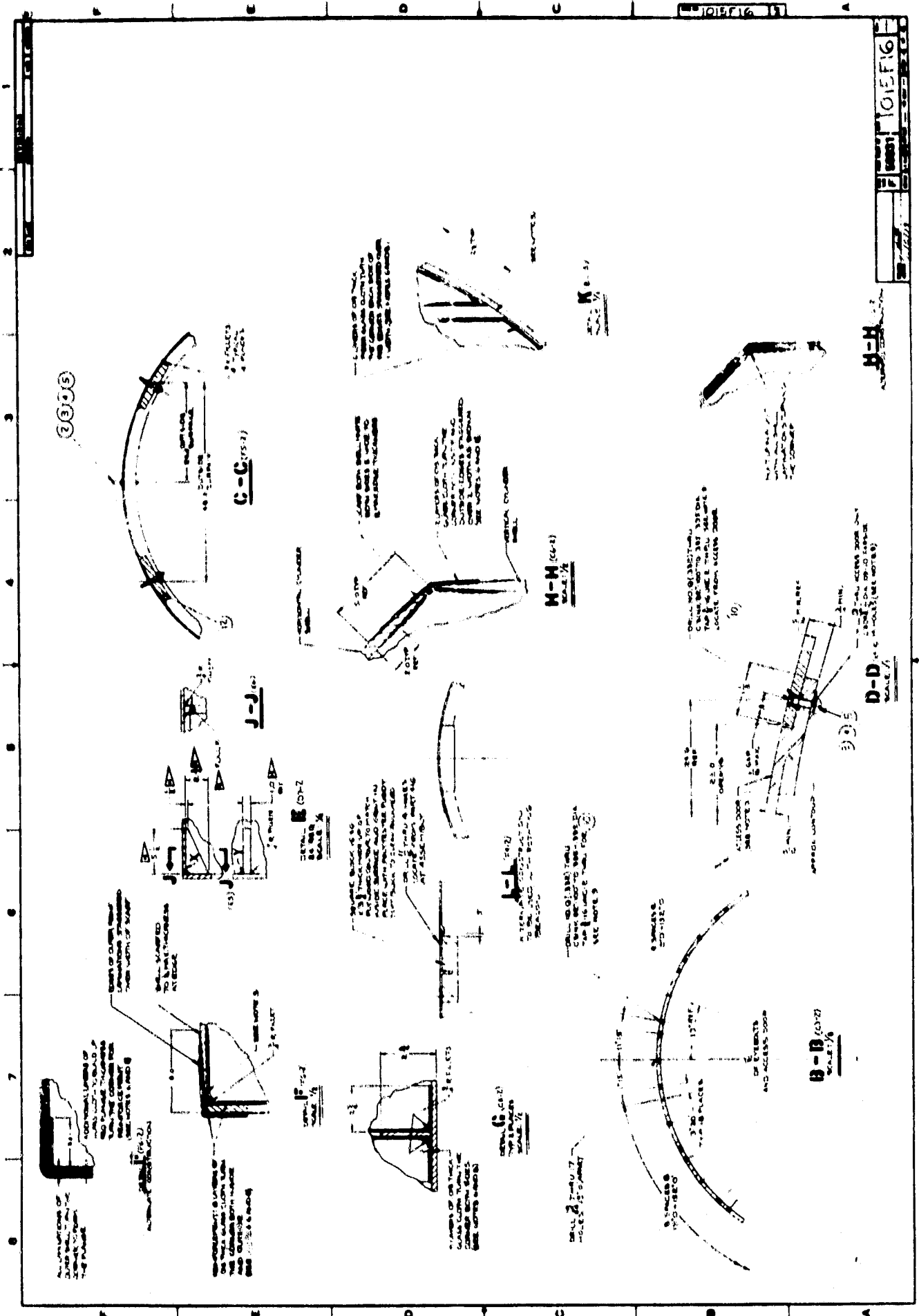
50031 1015 F16

VIEW N (CS-2)
SCALE 1/2



VIEW RP (CS-2)





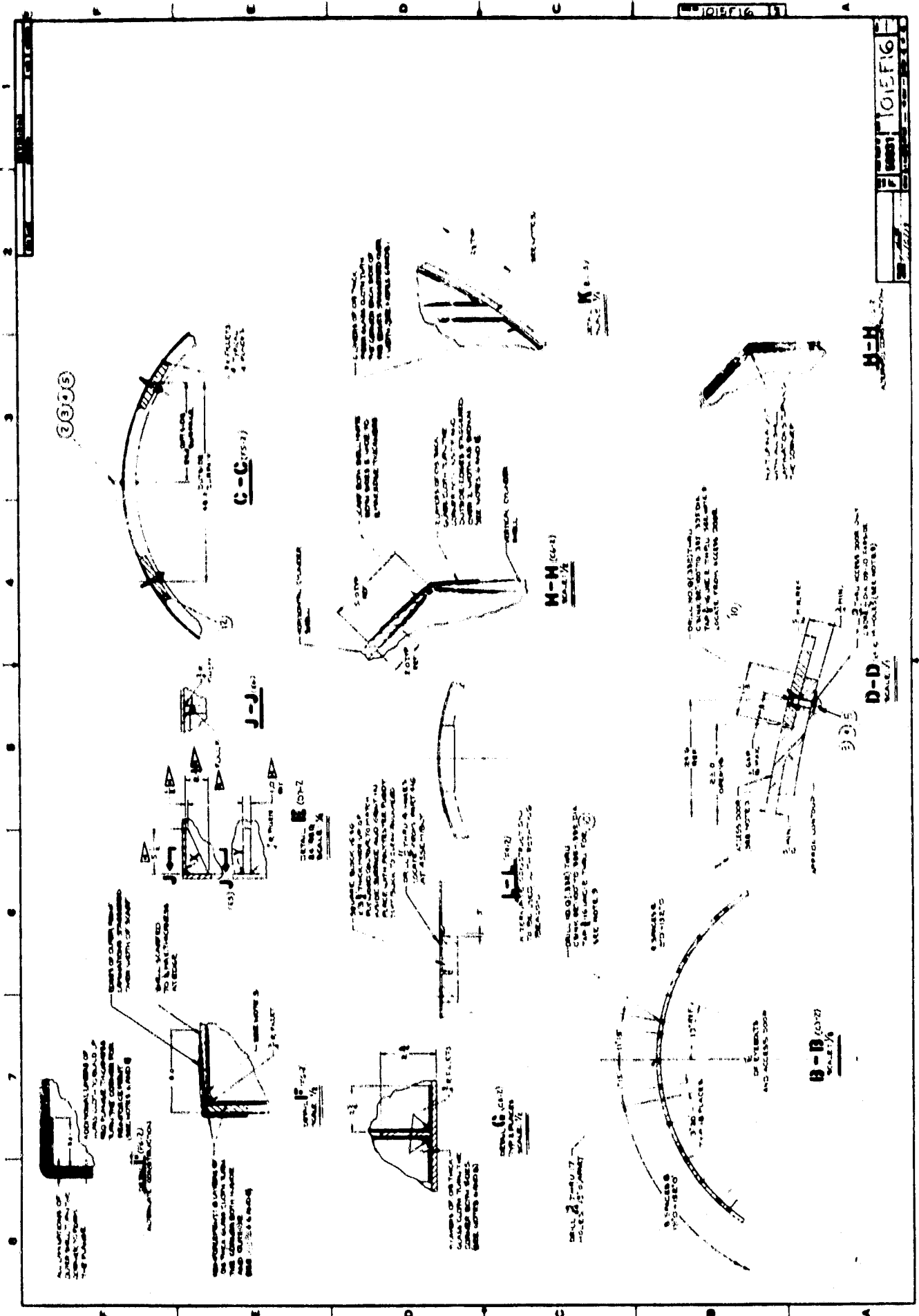
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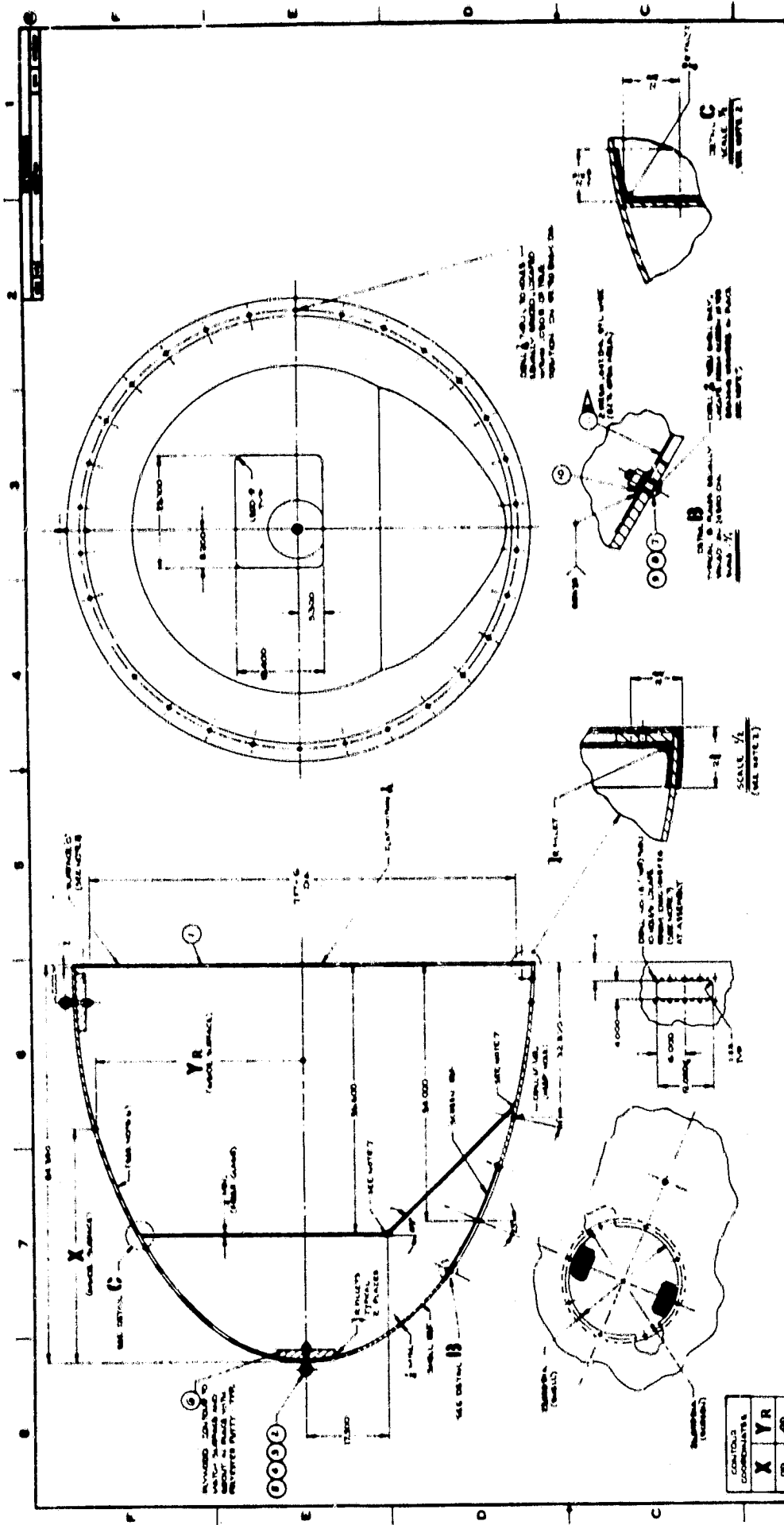
D-D

B-B

M-M

C-C





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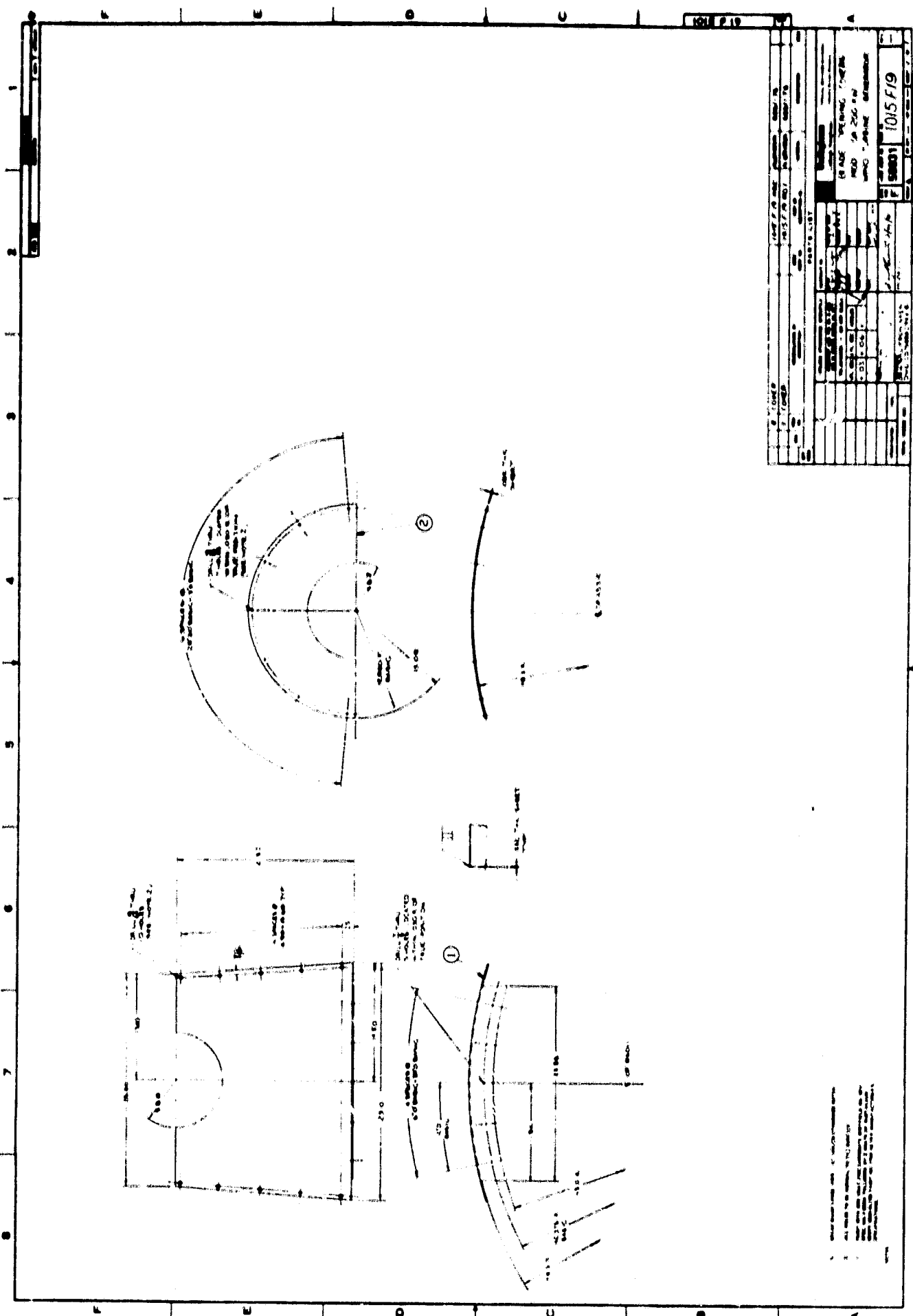
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CONTRACT COORDINATES & X Y R

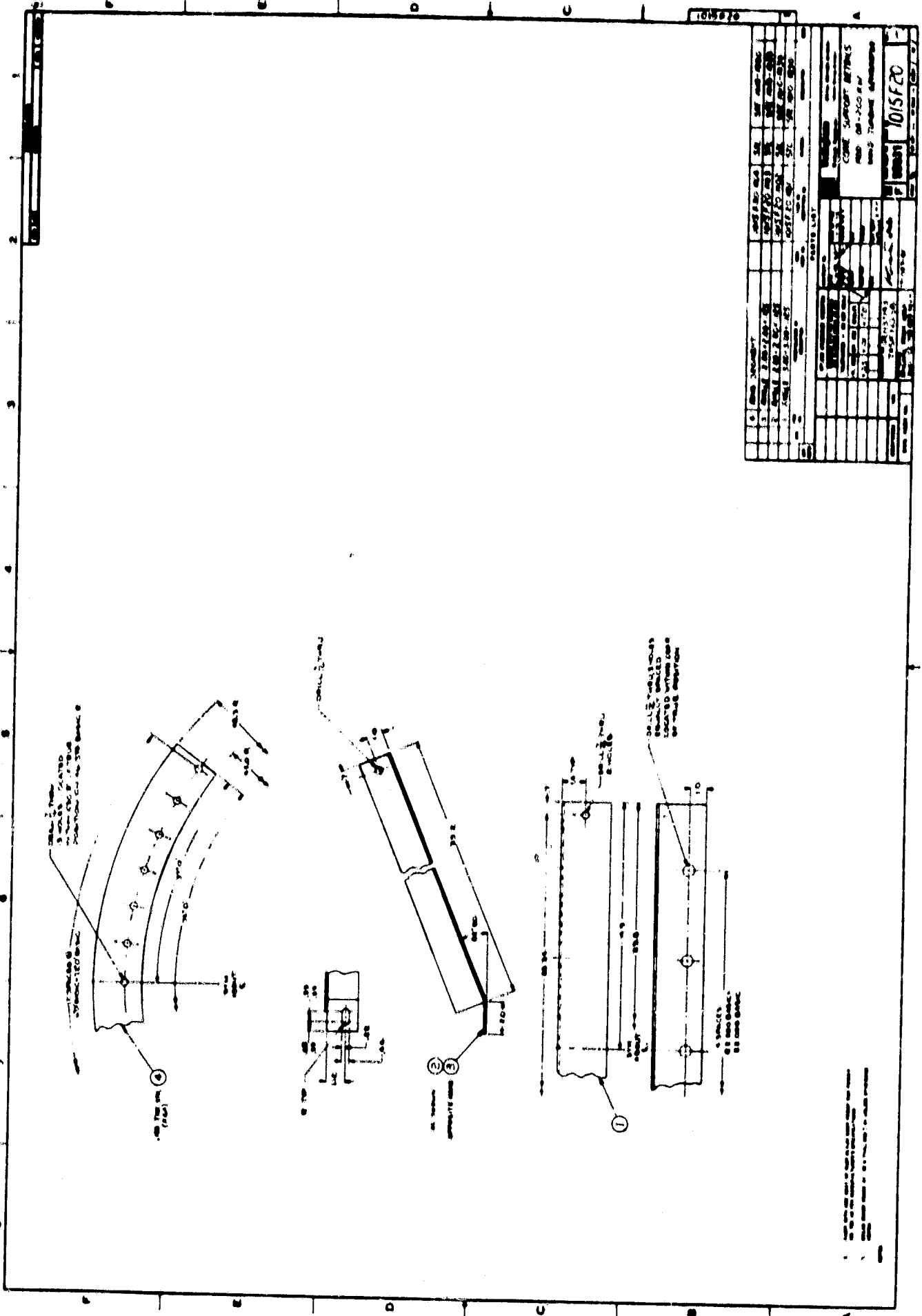
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TABLE 1
GROUP NO. PART NO. QTY.

100 kW GENERATOR ASSEMBLY
SCALE 1/4"
SCALE 1/2"
SCALE 3/4"
SCALE 1"
SCALE 1 1/2"
SCALE 2"
SCALE 3"
SCALE 4"
SCALE 5"
SCALE 6"
SCALE 8"
SCALE 10"
SCALE 12"
SCALE 15"
SCALE 20"
SCALE 25"
SCALE 30"
SCALE 40"
SCALE 50"
SCALE 60"
SCALE 80"
SCALE 100"



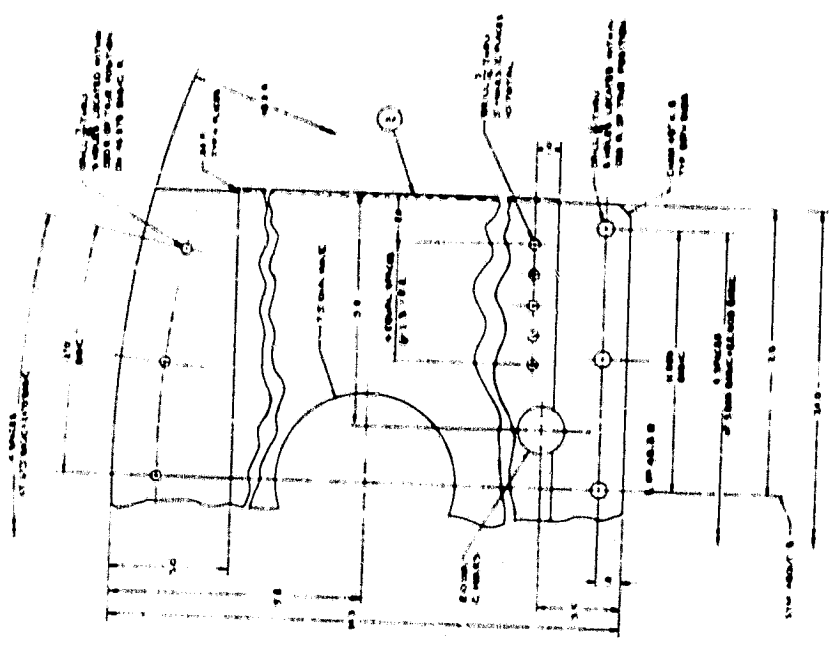
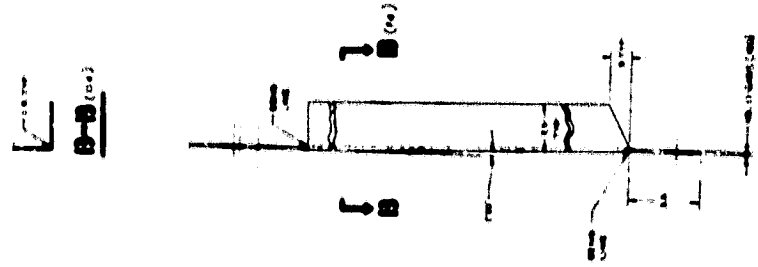
DRAWING INFORMATION		PROJECT INFORMATION		REVISIONS	
DATE	10/15/79	PROJECT	1015 F19	NO.	
DESIGNER		ENGINEER		DATE	
CHECKED		APPROVED		DATE	
<p>1. All dimensions are in inches unless otherwise specified.</p> <p>2. All dimensions are to be maintained unless otherwise specified.</p> <p>3. All dimensions are to be maintained unless otherwise specified.</p> <p>4. All dimensions are to be maintained unless otherwise specified.</p>					



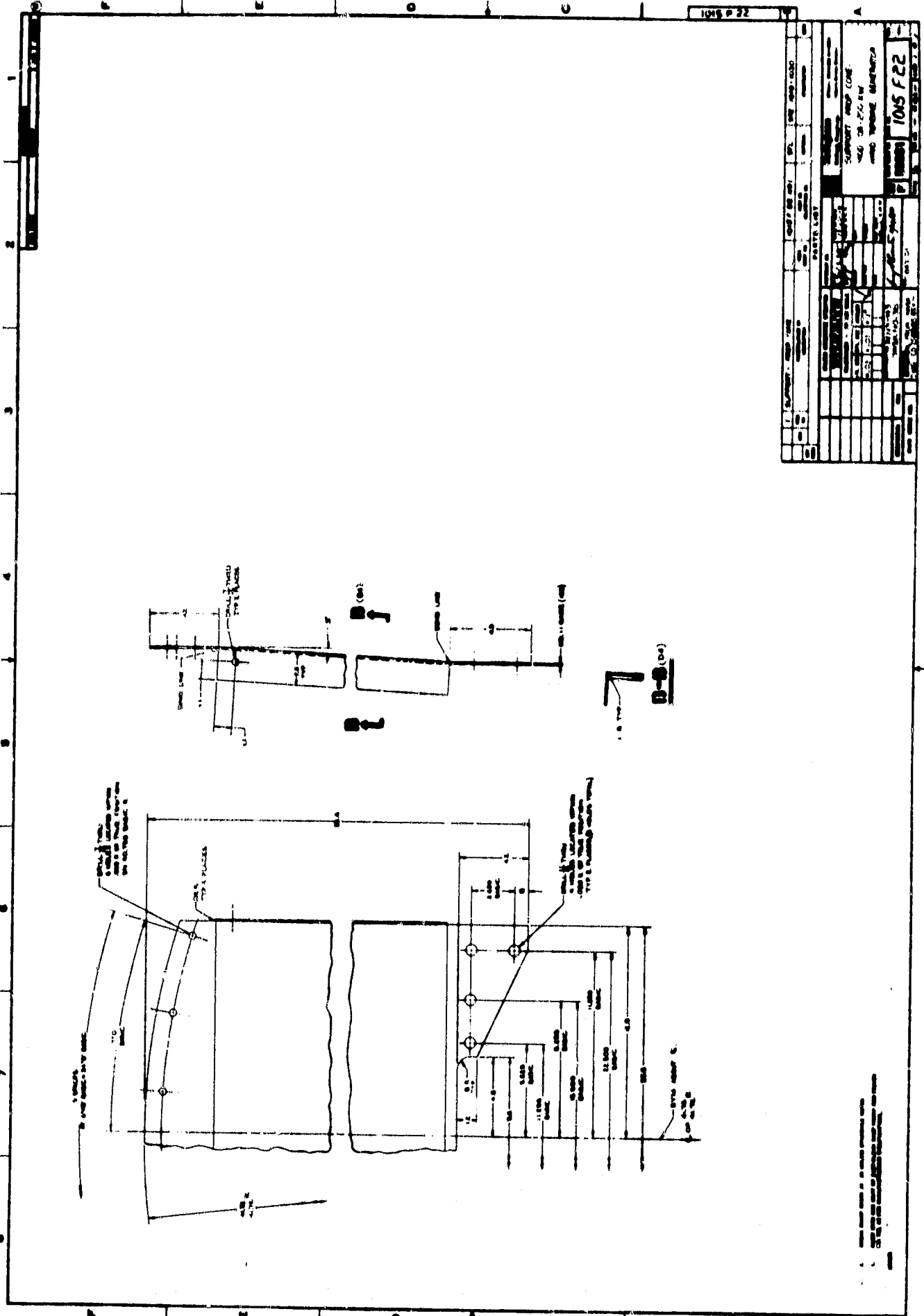
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1015 F20

1	DESIGNER	DATE	SHEET NO.	TOTAL SHEETS
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3	DESIGNER	DATE	SHEET NO.	TOTAL SHEETS
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99	DESIGNER	DATE	SHEET NO.	TOTAL SHEETS
100	DESIGNER	DATE	SHEET NO.	TOTAL SHEETS



1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
 2. THE WEIGHT OF THE COMPONENT IS APPROXIMATELY 1.5 KG.



1045 F22		DATE: 10/10/50		BY: [Signature]	
PROJECT: [Blank]		SHEET: 1045 F22		SCALE: [Blank]	
DRAWN BY: [Blank]		CHECKED BY: [Blank]		APPROVED BY: [Blank]	
DESIGNED BY: [Blank]		CONTRACT NO.: [Blank]		CLIENT: [Blank]	
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LOCATION: [Blank]		DATE: 10/10/50		BY: [Signature]	

1045 F22

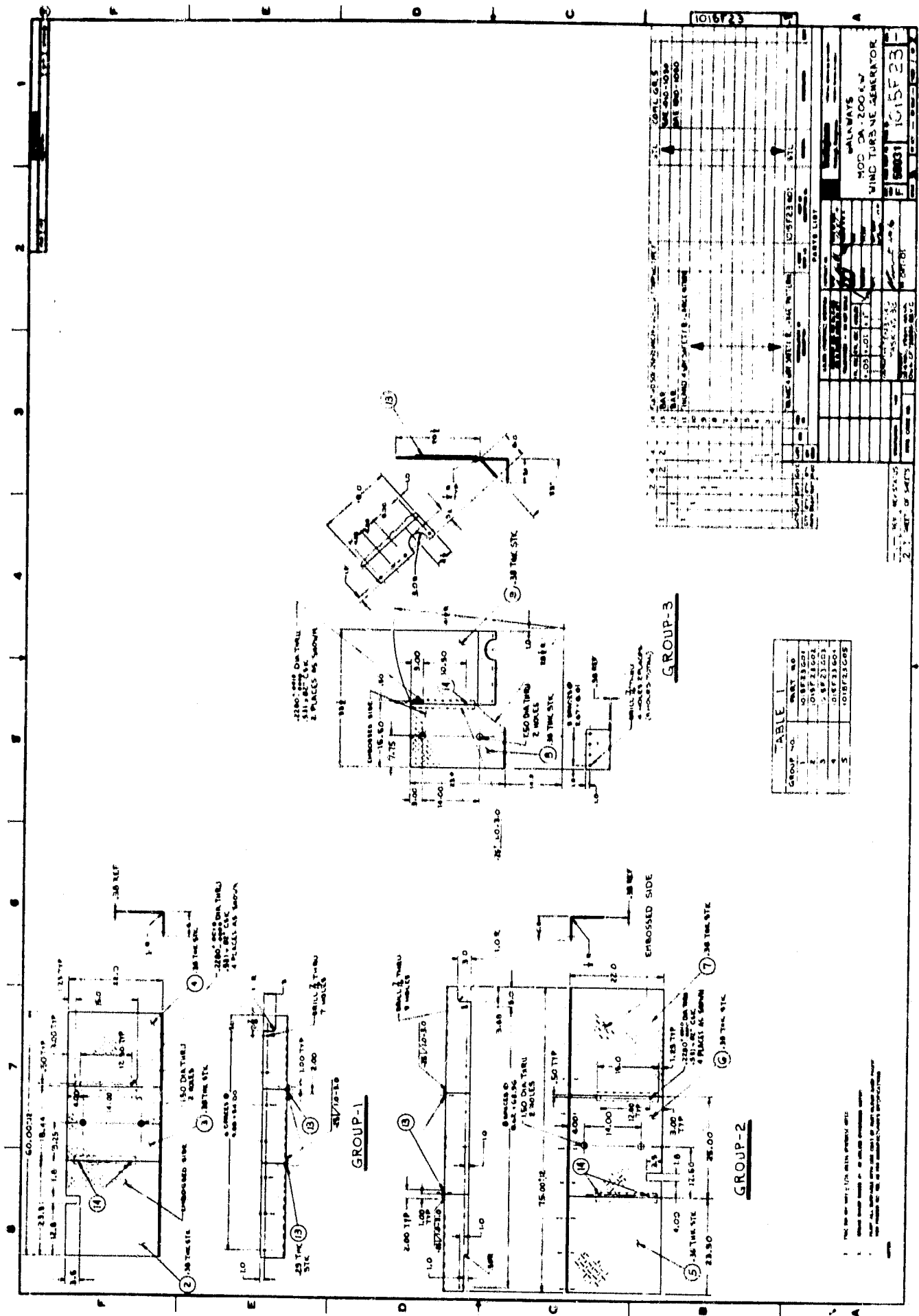


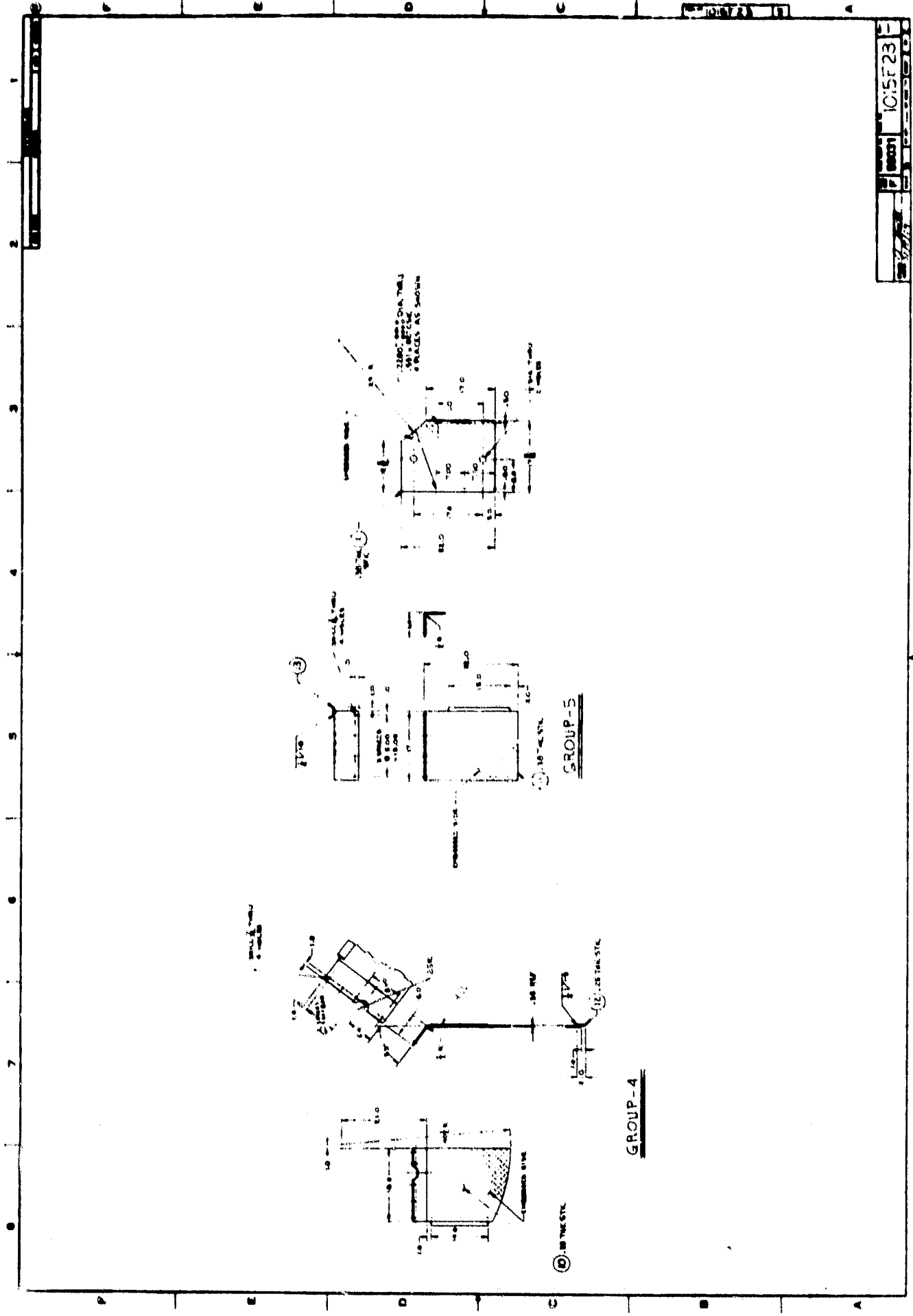
TABLE 1

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4	01E3304
5	01E3305

1015F23

NO.	DESCRIPTION	QTY.	UNIT	REMARKS
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2	150 DIA THRU	2	HOLES	AS SHOWN
3	2280 DIA THRU	1	PLATE	AS SHOWN
4	150 DIA THRU	2	HOLES	AS SHOWN
5	2280 DIA THRU	1	PLATE	AS SHOWN
6	150 DIA THRU	2	HOLES	AS SHOWN
7	2280 DIA THRU	1	PLATE	AS SHOWN
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72	150 DIA THRU	2	HOLES	AS SHOWN
73	2280 DIA THRU	1	PLATE	AS SHOWN
74	150 DIA THRU	2	HOLES	AS SHOWN
75	2280 DIA THRU	1	PLATE	AS SHOWN
76	150 DIA THRU	2	HOLES	AS SHOWN
77	2280 DIA THRU	1	PLATE	AS SHOWN
78	150 DIA THRU	2	HOLES	AS SHOWN
79	2280 DIA THRU	1	PLATE	AS SHOWN
80	150 DIA THRU	2	HOLES	AS SHOWN
81	2280 DIA THRU	1	PLATE	AS SHOWN
82	150 DIA THRU	2	HOLES	AS SHOWN
83	2280 DIA THRU	1	PLATE	AS SHOWN
84	150 DIA THRU	2	HOLES	AS SHOWN
85	2280 DIA THRU	1	PLATE	AS SHOWN
86	150 DIA THRU	2	HOLES	AS SHOWN
87	2280 DIA THRU	1	PLATE	AS SHOWN
88	150 DIA THRU	2	HOLES	AS SHOWN
89	2280 DIA THRU	1	PLATE	AS SHOWN
90	150 DIA THRU	2	HOLES	AS SHOWN
91	2280 DIA THRU	1	PLATE	AS SHOWN
92	150 DIA THRU	2	HOLES	AS SHOWN
93	2280 DIA THRU	1	PLATE	AS SHOWN
94	150 DIA THRU	2	HOLES	AS SHOWN
95	2280 DIA THRU	1	PLATE	AS SHOWN
96	150 DIA THRU	2	HOLES	AS SHOWN
97	2280 DIA THRU	1	PLATE	AS SHOWN
98	150 DIA THRU	2	HOLES	AS SHOWN
99	2280 DIA THRU	1	PLATE	AS SHOWN
100	150 DIA THRU	2	HOLES	AS SHOWN

1 THE TOP OF THE PART WITH DIMENSIONS
 2 THE BOTTOM OF THE PART WITH DIMENSIONS
 3 THE LEFT SIDE OF THE PART WITH DIMENSIONS
 4 THE RIGHT SIDE OF THE PART WITH DIMENSIONS
 5 THE FRONT OF THE PART WITH DIMENSIONS
 6 THE BACK OF THE PART WITH DIMENSIONS



GROUP-4

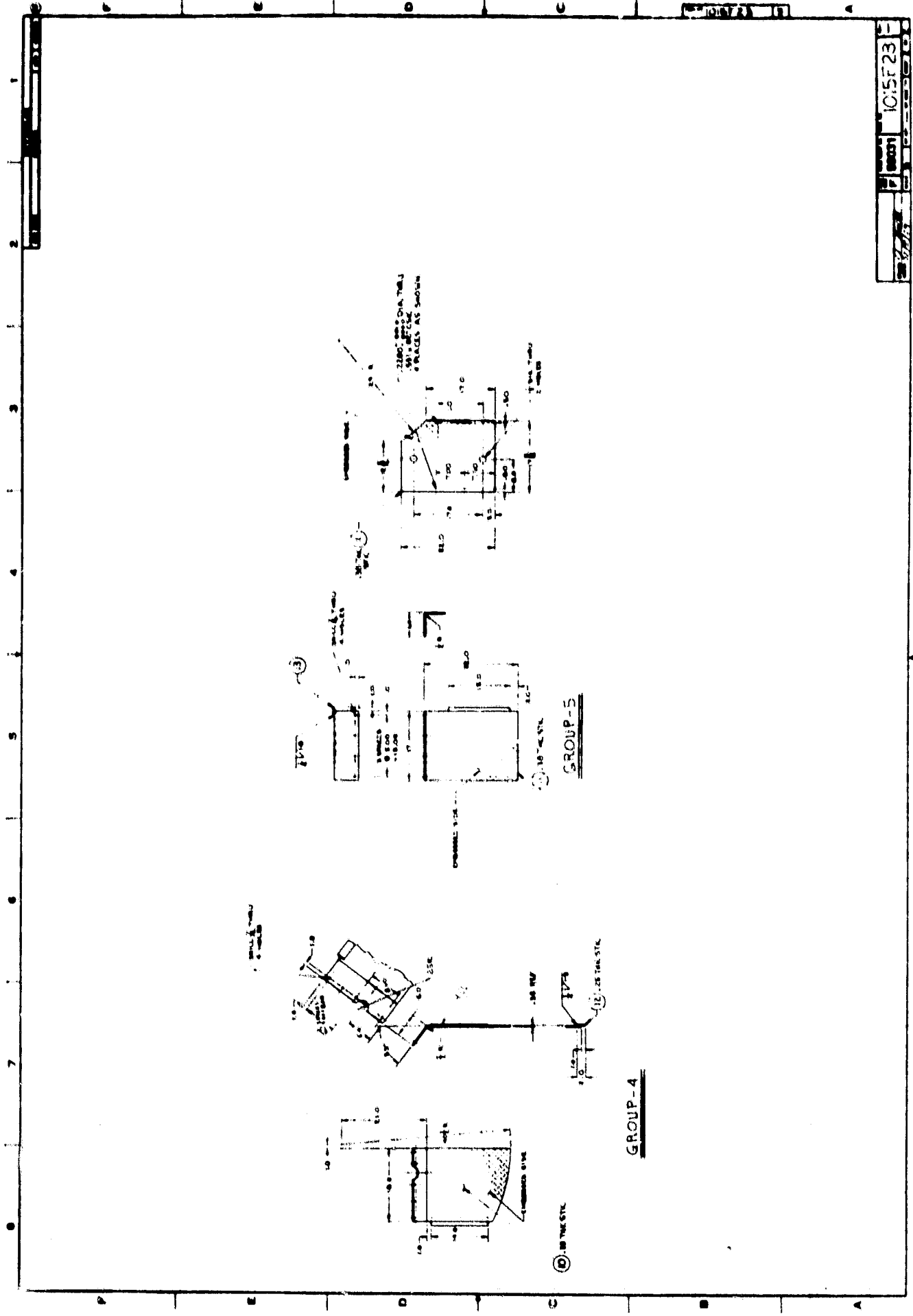
10' DIA. TUBS

GROUP-5

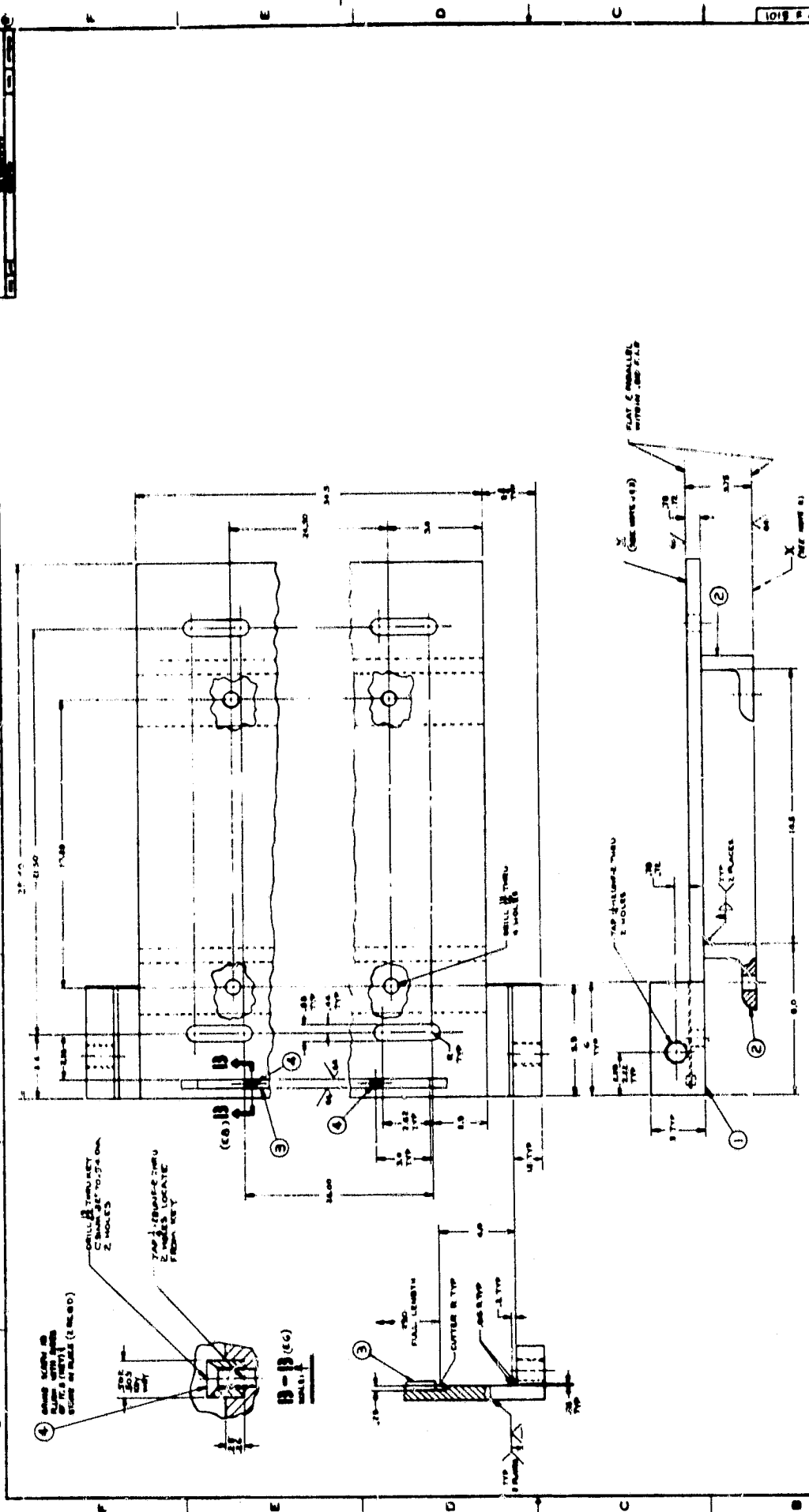
10' DIA. TUBS

2200' DIA. TUBS
10' DIA. TUBS
SPACES AS SHOWN

10' DIA. TUBS



85



ON ALL TAP KEY
 CHANGE 20 TO 24 ON
 2 HOLES

TAP 2 HOLES THRU
 2 HOLES LOCATE
 FROM KEY

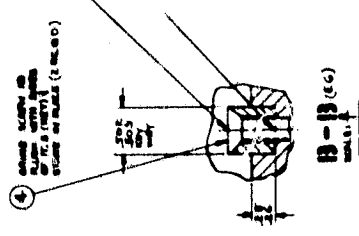


TABLE 1

GROUP NO.	PART NO.	QTY
1	01574201	

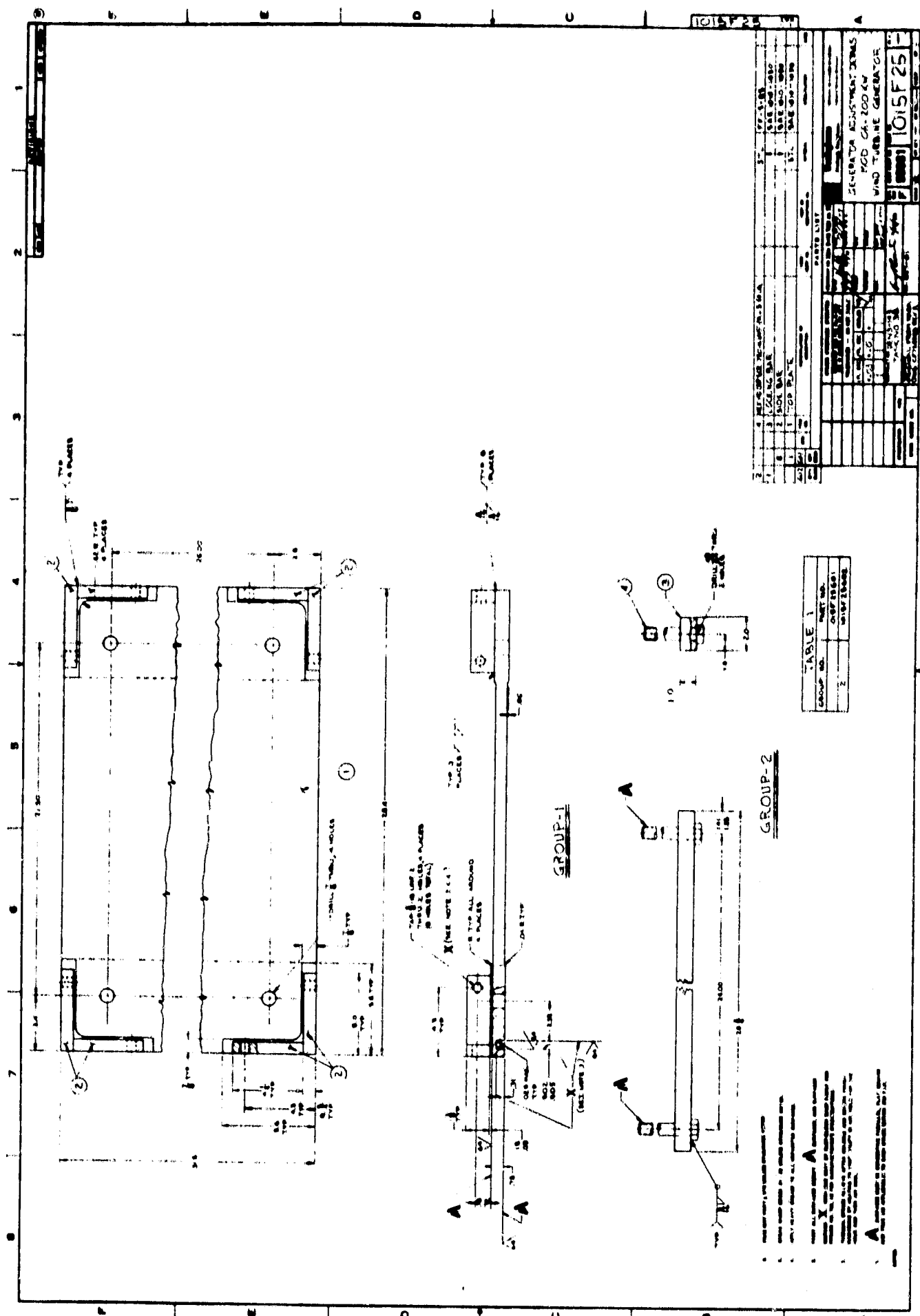
PARTS LIST

QTY	DESCRIPTION	UNIT	REF. DES.	QTY	UNIT	REF. DES.
2	200 FILE (DR AND DRUM) M10X1.5	FILE	CON. 24 3			
1	KEY 200-220-08-10-3	KEY	CON. 24 3			
2	WAL 500-3-80-250	WAL	CON. 24 3			
1	BOTTOM RITE	RTG	CON. 24 3			

1	1015 F 24
2	1015 F 24

1015 F 24

1. THIS DRAWING IS A PART OF THE DESIGN OF THE TURBINE GENERATOR ASSEMBLY.
 2. THE PARTS LIST IS A SUMMARY OF THE PARTS LISTED IN THIS DRAWING.
 3. THE PARTS LIST IS NOT A SUBSTITUTE FOR THE PARTS LIST IN THE DRAWING.
 4. THE PARTS LIST IS NOT A SUBSTITUTE FOR THE PARTS LIST IN THE DRAWING.
 5. THE PARTS LIST IS NOT A SUBSTITUTE FOR THE PARTS LIST IN THE DRAWING.



1015F25

PARTS LIST	
1	COILING BAR
2	ROCK BAR
3	TOP PLATE
4	...
5	...
6	...
7	...
8	...
9	...
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98	...
99	...
100	...

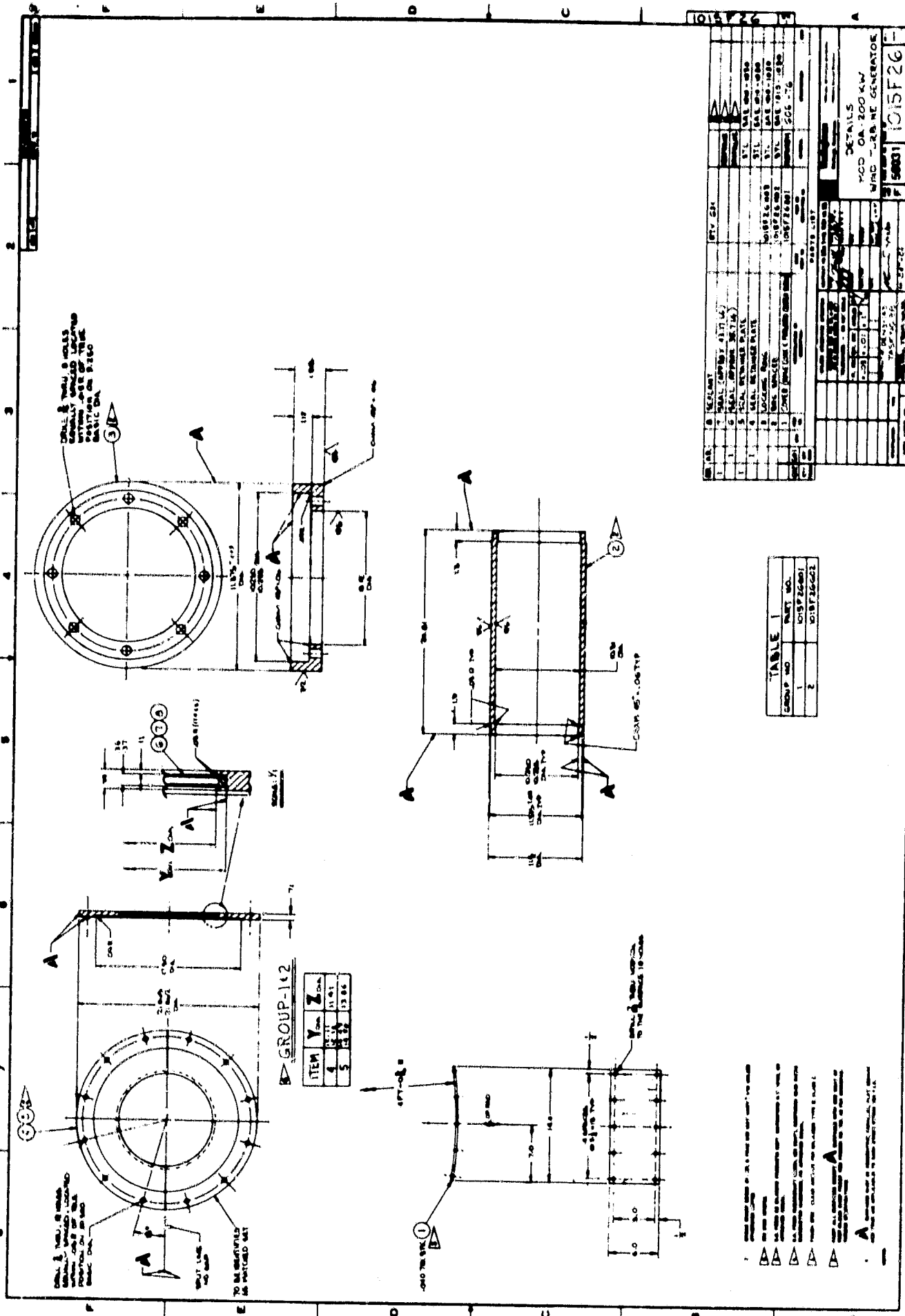
TABLE 1

GROUP NO.	PART NO.	DEFINITION	UNITS/PLACES
1			
2			

GROUP-2

- 1. THE PARTS LIST IS THE AUTHORITY FOR THE IDENTIFICATION OF THE PARTS.
- 2. THE PARTS LIST IS THE AUTHORITY FOR THE IDENTIFICATION OF THE PARTS.
- 3. THE PARTS LIST IS THE AUTHORITY FOR THE IDENTIFICATION OF THE PARTS.
- 4. THE PARTS LIST IS THE AUTHORITY FOR THE IDENTIFICATION OF THE PARTS.
- 5. THE PARTS LIST IS THE AUTHORITY FOR THE IDENTIFICATION OF THE PARTS.
- 6. THE PARTS LIST IS THE AUTHORITY FOR THE IDENTIFICATION OF THE PARTS.
- 7. THE PARTS LIST IS THE AUTHORITY FOR THE IDENTIFICATION OF THE PARTS.
- 8. THE PARTS LIST IS THE AUTHORITY FOR THE IDENTIFICATION OF THE PARTS.
- 9. THE PARTS LIST IS THE AUTHORITY FOR THE IDENTIFICATION OF THE PARTS.
- 10. THE PARTS LIST IS THE AUTHORITY FOR THE IDENTIFICATION OF THE PARTS.

1015F25



NO	QTY	DESCRIPTION	UNIT	REMARKS
1	1	SEALANT	BTU GA	
2	1	SEAL (MOUNT 4714)		
3	1	SEAL (MOUNT 4714)		
4	1	SEAL (MOUNT 4714)		
5	1	SEAL (MOUNT 4714)		
6	1	SEAL (MOUNT 4714)		
7	1	SEAL (MOUNT 4714)		
8	1	SEAL (MOUNT 4714)		
9	1	SEAL (MOUNT 4714)		
10	1	SEAL (MOUNT 4714)		
11	1	SEAL (MOUNT 4714)		
12	1	SEAL (MOUNT 4714)		
13	1	SEAL (MOUNT 4714)		
14	1	SEAL (MOUNT 4714)		
15	1	SEAL (MOUNT 4714)		
16	1	SEAL (MOUNT 4714)		
17	1	SEAL (MOUNT 4714)		
18	1	SEAL (MOUNT 4714)		
19	1	SEAL (MOUNT 4714)		
20	1	SEAL (MOUNT 4714)		
21	1	SEAL (MOUNT 4714)		
22	1	SEAL (MOUNT 4714)		
23	1	SEAL (MOUNT 4714)		
24	1	SEAL (MOUNT 4714)		
25	1	SEAL (MOUNT 4714)		
26	1	SEAL (MOUNT 4714)		
27	1	SEAL (MOUNT 4714)		
28	1	SEAL (MOUNT 4714)		
29	1	SEAL (MOUNT 4714)		
30	1	SEAL (MOUNT 4714)		
31	1	SEAL (MOUNT 4714)		
32	1	SEAL (MOUNT 4714)		
33	1	SEAL (MOUNT 4714)		
34	1	SEAL (MOUNT 4714)		
35	1	SEAL (MOUNT 4714)		
36	1	SEAL (MOUNT 4714)		
37	1	SEAL (MOUNT 4714)		
38	1	SEAL (MOUNT 4714)		
39	1	SEAL (MOUNT 4714)		
40	1	SEAL (MOUNT 4714)		
41	1	SEAL (MOUNT 4714)		
42	1	SEAL (MOUNT 4714)		
43	1	SEAL (MOUNT 4714)		
44	1	SEAL (MOUNT 4714)		
45	1	SEAL (MOUNT 4714)		
46	1	SEAL (MOUNT 4714)		
47	1	SEAL (MOUNT 4714)		
48	1	SEAL (MOUNT 4714)		
49	1	SEAL (MOUNT 4714)		
50	1	SEAL (MOUNT 4714)		

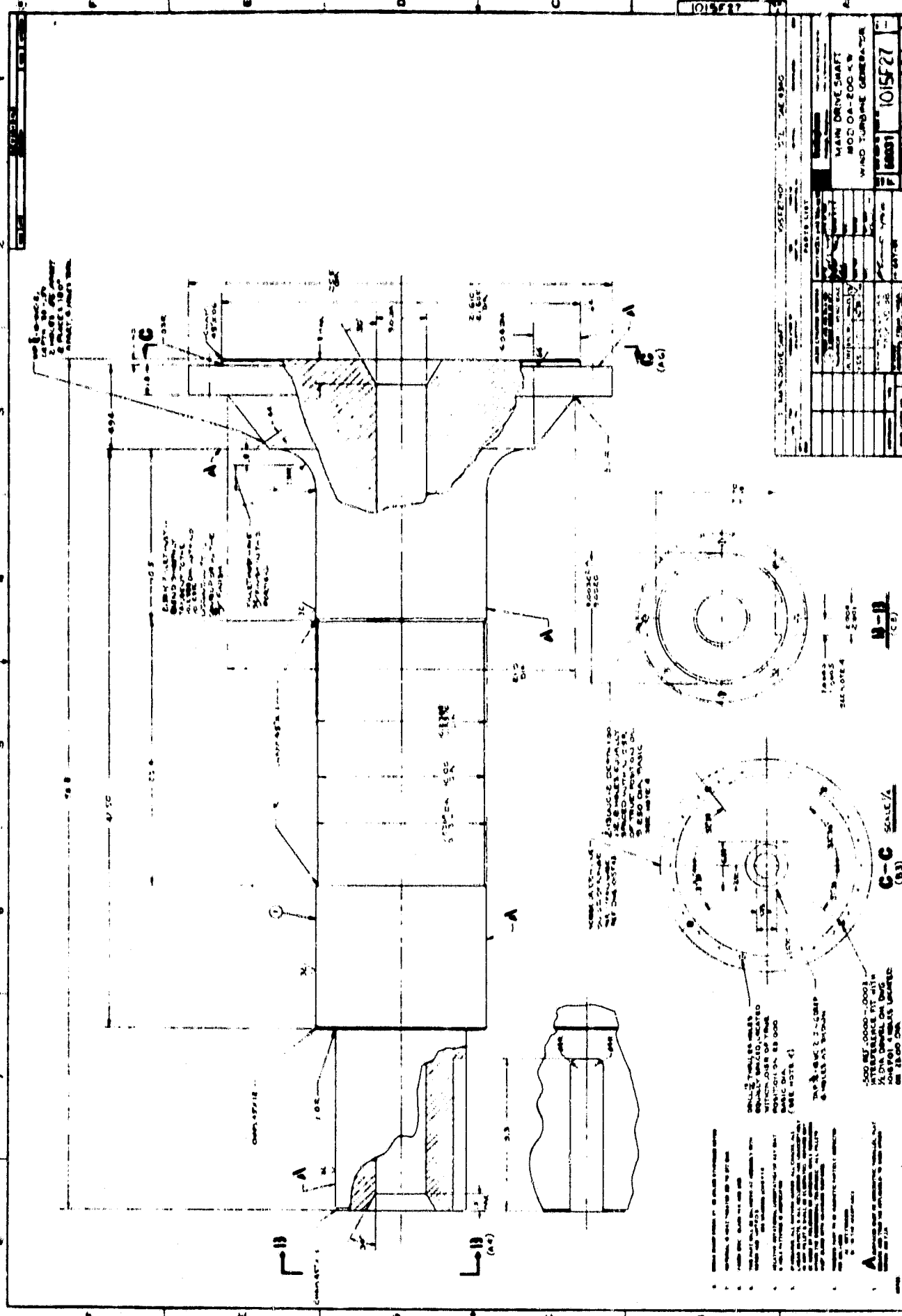
TABLE 1

GROUP NO	PART NO.
1	1015F26001
2	1015F26002

- 1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
- 2. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 3. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 4. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 5. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 6. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 7. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 8. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 9. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 10. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 11. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 12. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 13. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 14. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 15. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 16. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 17. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 18. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 19. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 20. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 21. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 22. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 23. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 24. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 25. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 26. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 27. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 28. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 29. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 30. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 31. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 32. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 33. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 34. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 35. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 36. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 37. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 38. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 39. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 40. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 41. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 42. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 43. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 44. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 45. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 46. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 47. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 48. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 49. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
- 50. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.

MAIN DRIVE SHAFT
MOD OA-200 AS
WIND TURBINE GENERATOR

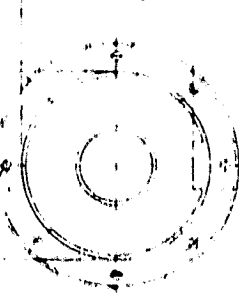
1015F27



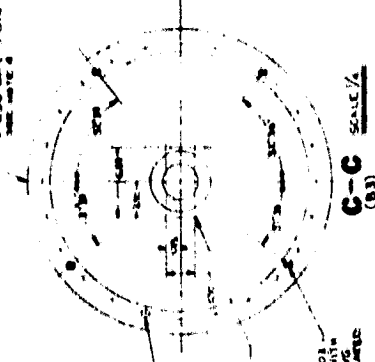
SYSTEM NO. LAL-1390

PARTS LIST

QTY	DESCRIPTION	REF. NO.	UNIT
1	SHAFT		
1	KEY		
1	FLANGE		
1	GEAR		
1	BRACKET		
1	WASHER		
1	NUT		
1	SCREW		
1	WASHER		
1	NUT		
1	SCREW		



A-A
SCALE 1/8"



C-C
SCALE 1/8"

2.0000 DIA. KEYWAY
2.0000 DIA. KEYWAY
2.0000 DIA. KEYWAY
2.0000 DIA. KEYWAY
2.0000 DIA. KEYWAY

- 1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
- 2. TOLERANCES ARE AS SHOWN.
- 3. SURFACES UNLESS OTHERWISE SPECIFIED ARE TO BE FINISHED TO A 32 RMS SURFACE FINISH.
- 4. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTERLINE UNLESS OTHERWISE SPECIFIED.
- 5. KEYWAY DIMENSIONS ARE TO BE TAKEN FROM THE CENTERLINE UNLESS OTHERWISE SPECIFIED.
- 6. SURFACES UNLESS OTHERWISE SPECIFIED ARE TO BE FINISHED TO A 32 RMS SURFACE FINISH.
- 7. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTERLINE UNLESS OTHERWISE SPECIFIED.
- 8. KEYWAY DIMENSIONS ARE TO BE TAKEN FROM THE CENTERLINE UNLESS OTHERWISE SPECIFIED.

Shaft is to be finished to a 32 RMS surface finish.

A-A

B-B

A

1015 F 28

4	FOOT	SYL	SYL 000-010
3	BASE		
2	BASE		
1	FL		
0	FL		
PARTS LIST			
SEAKE SUPPORT			
MOD OA - 200 KW			
WIND TURBINE GENERATOR			
P 58031 1015 F 28			

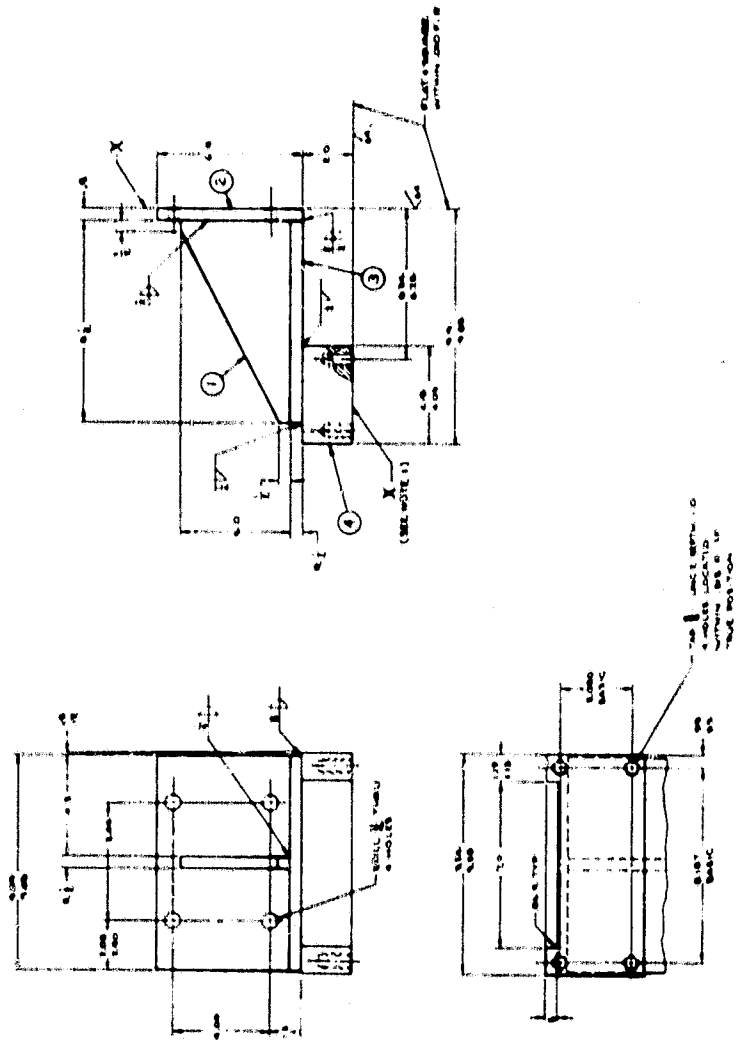
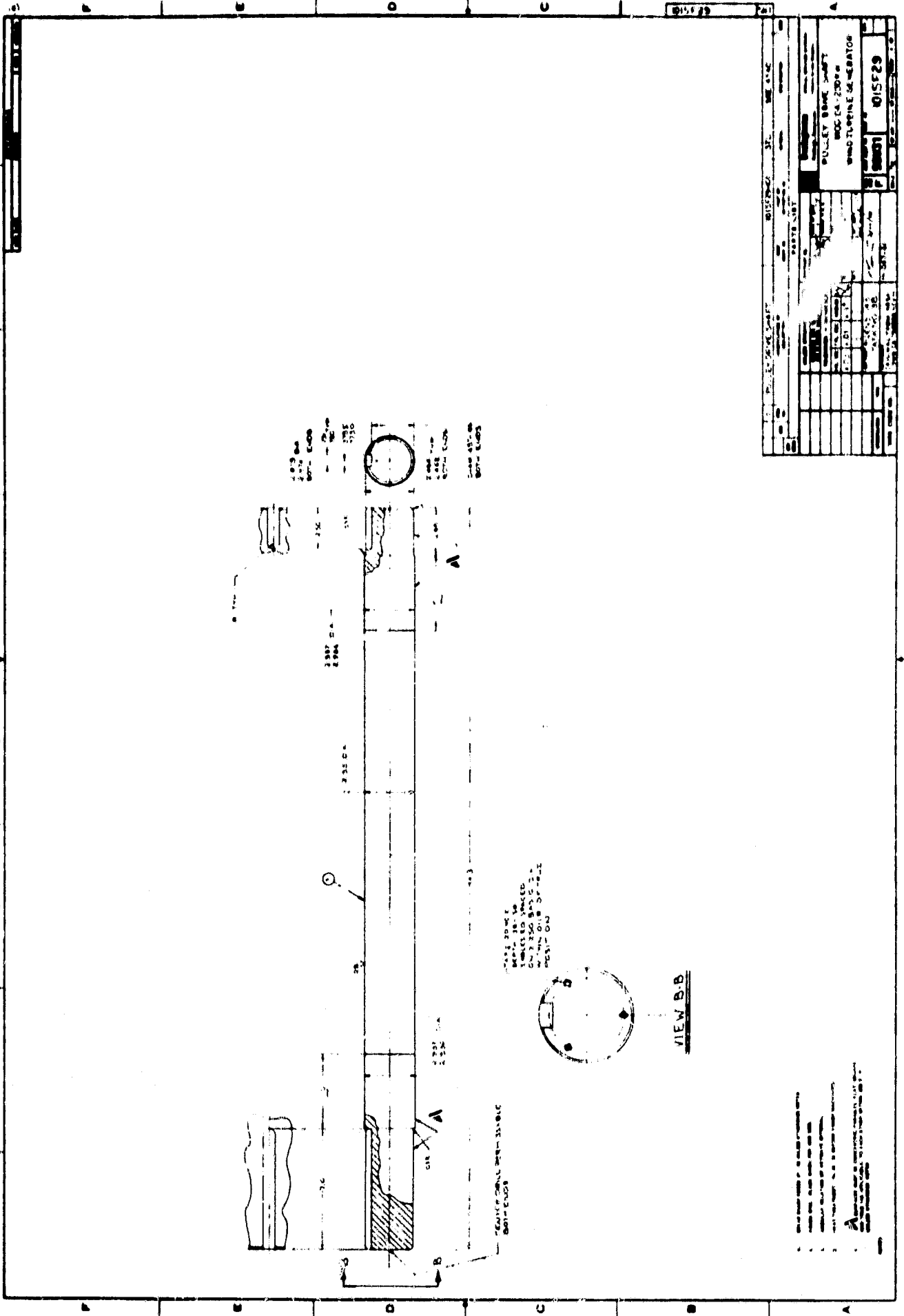


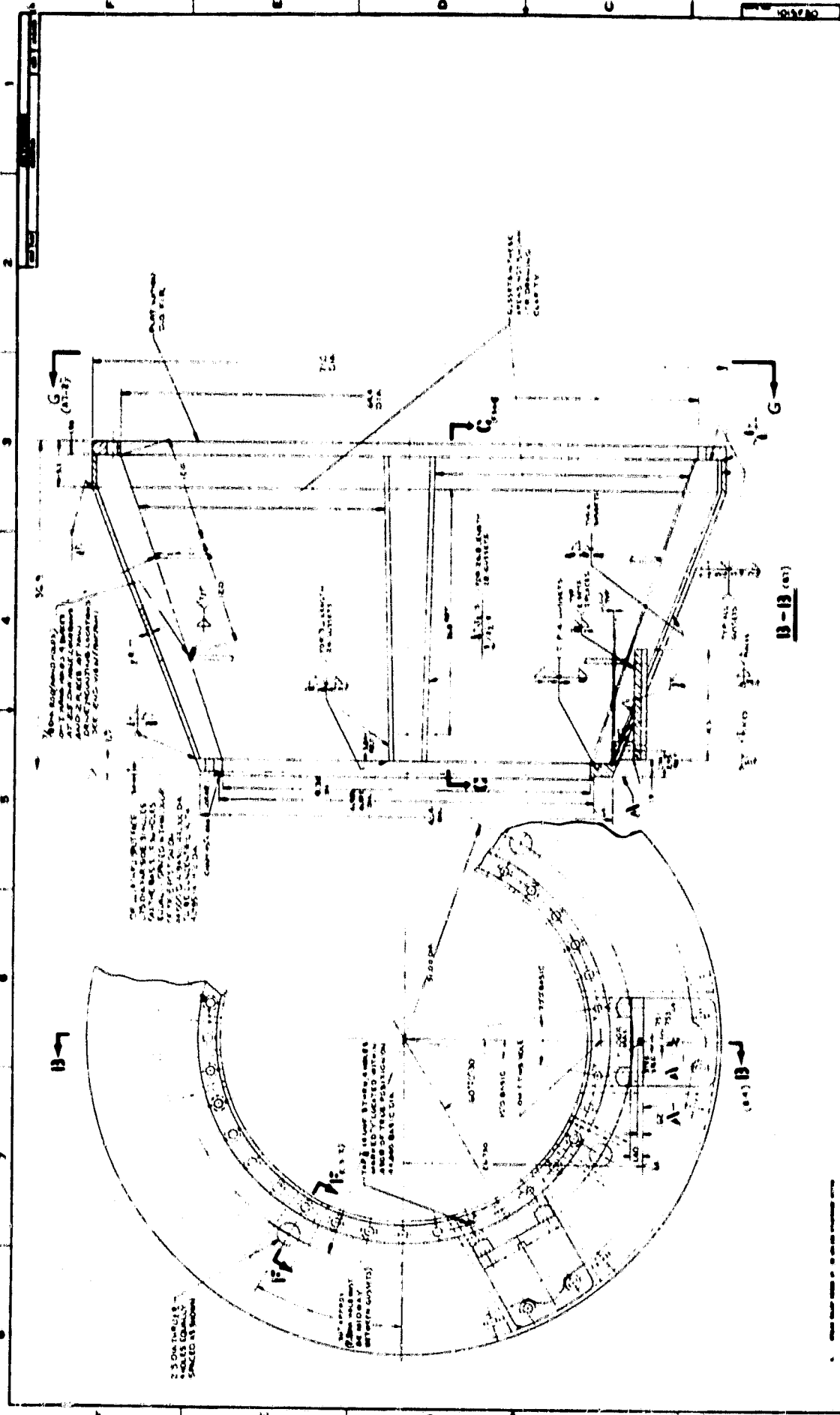
TABLE	REV NO
GROUP NO	051820

1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED

2. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED

3. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED





WATER TIGHT BEARING SUPPORT STEEL 316 SS 1015 F30

DATE: 10/15/30

DESIGNED BY: [Name]

CHECKED BY: [Name]

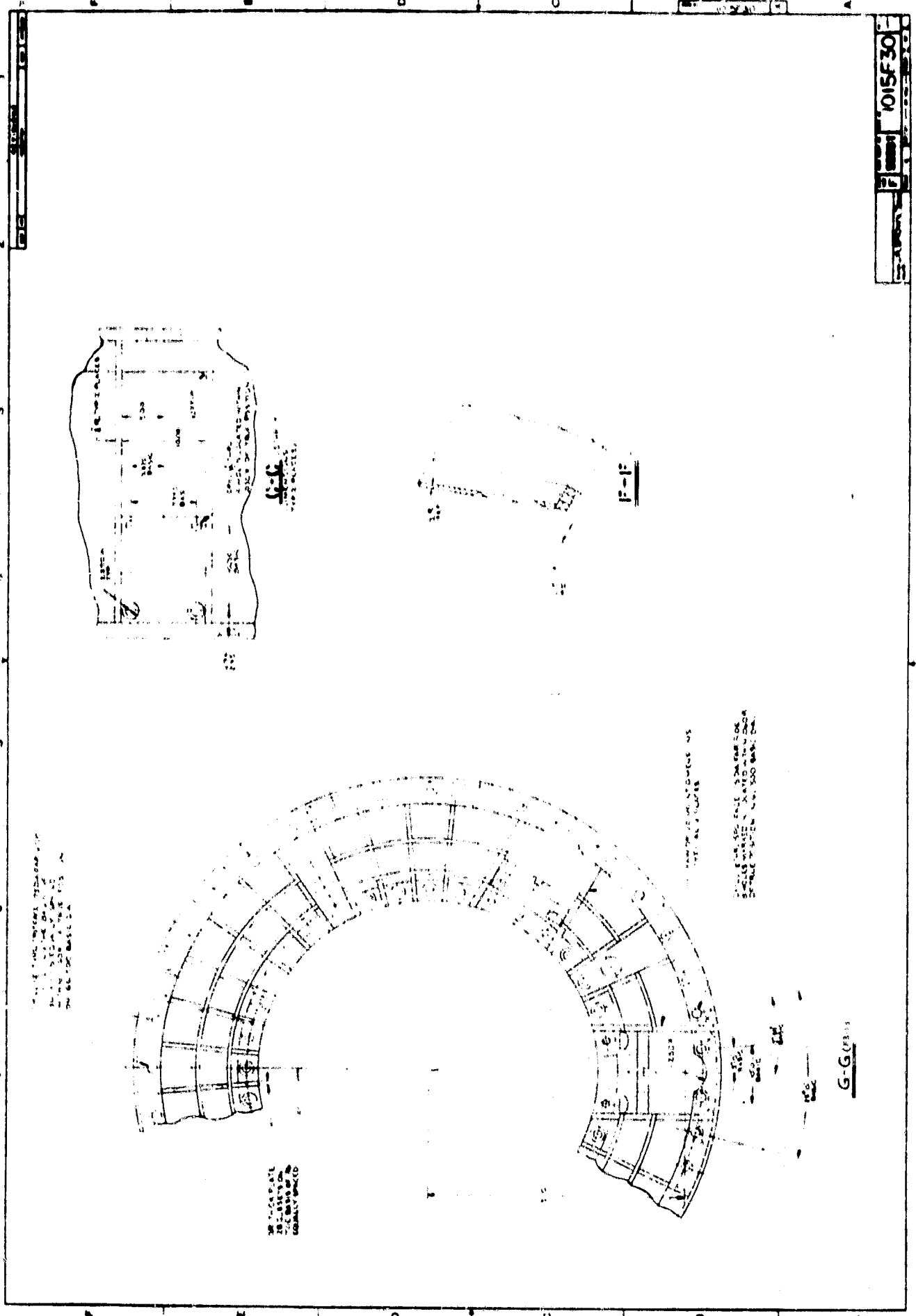
APPROVED BY: [Name]

SCALE: 1/2" = 1'-0"

2 - 1 SHEET OF 3 SHEETS

PARTS LIST

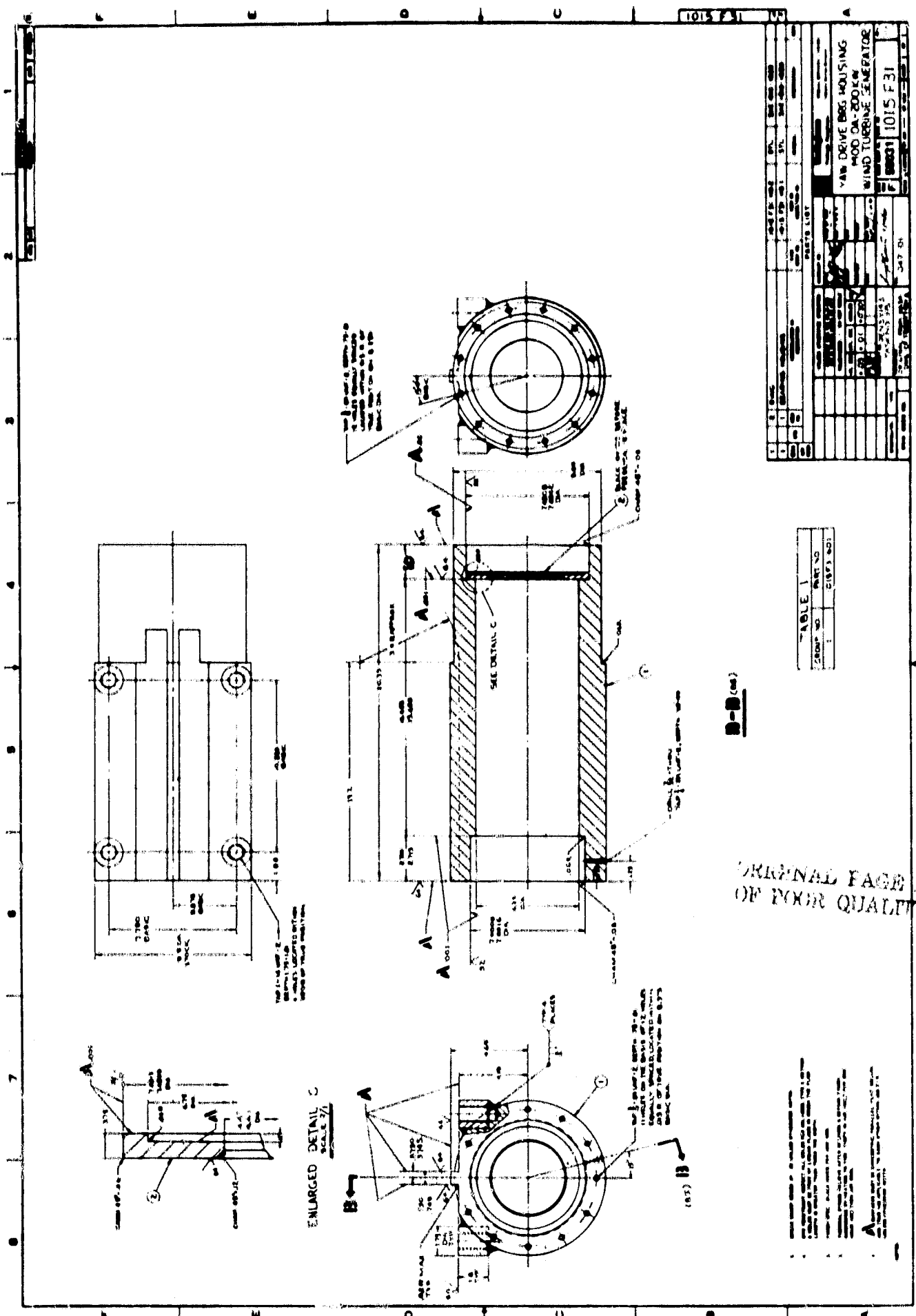
NO.	DESCRIPTION	QTY.	UNIT	REMARKS
1	ROTOR	1	PC	
2	STATOR	1	PC	
3	BEARING HOUSING	1	PC	
4	BEARING BALLS	10	EA	
5	BEARING RINGS	2	EA	
6	SCREW	10	EA	
7	WASHER	10	EA	
8	SPACER	10	EA	
9	KEY	1	EA	
10	KEYWAY	1	EA	



015F30

G-G

16



1015 F31

TABLE I

COMP. NO.	PART NO.	QTY.	UNIT
1	1015 F31	1	ASSEMBLY
2	1015 F31	1	ASSEMBLY
3	1015 F31	1	ASSEMBLY
4	1015 F31	1	ASSEMBLY
5	1015 F31	1	ASSEMBLY
6	1015 F31	1	ASSEMBLY
7	1015 F31	1	ASSEMBLY
8	1015 F31	1	ASSEMBLY
9	1015 F31	1	ASSEMBLY
10	1015 F31	1	ASSEMBLY
11	1015 F31	1	ASSEMBLY
12	1015 F31	1	ASSEMBLY
13	1015 F31	1	ASSEMBLY
14	1015 F31	1	ASSEMBLY
15	1015 F31	1	ASSEMBLY
16	1015 F31	1	ASSEMBLY
17	1015 F31	1	ASSEMBLY
18	1015 F31	1	ASSEMBLY
19	1015 F31	1	ASSEMBLY
20	1015 F31	1	ASSEMBLY

YAW DRIVE HOUSING HOOD ON 200KW WIND TURBINE GENERATOR

1015 F31

1. THE DIMENSIONS OF THIS DRAWING ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

2. DIMENSIONS ARE GIVEN IN PARENTHESIS WHERE APPROPRIATE.

3. DIMENSIONS ARE GIVEN IN MILLIMETERS WHERE APPROPRIATE.

4. DIMENSIONS ARE GIVEN IN CENTIMETERS WHERE APPROPRIATE.

5. DIMENSIONS ARE GIVEN IN METERS WHERE APPROPRIATE.

6. DIMENSIONS ARE GIVEN IN KILOMETERS WHERE APPROPRIATE.

7. DIMENSIONS ARE GIVEN IN MILES WHERE APPROPRIATE.

8. DIMENSIONS ARE GIVEN IN FEET WHERE APPROPRIATE.

9. DIMENSIONS ARE GIVEN IN YARDS WHERE APPROPRIATE.

10. DIMENSIONS ARE GIVEN IN MILES WHERE APPROPRIATE.

11. DIMENSIONS ARE GIVEN IN KILOMETERS WHERE APPROPRIATE.

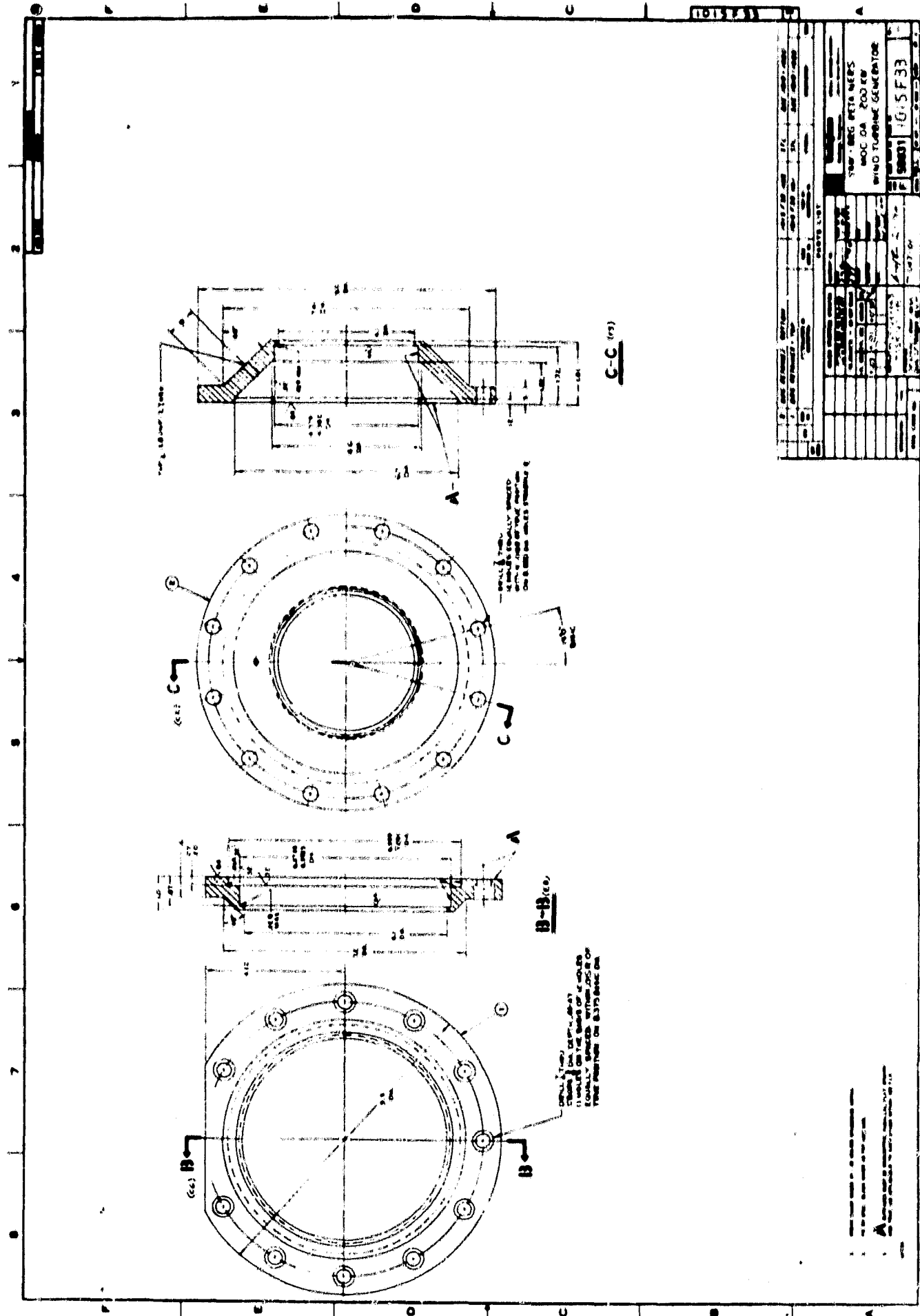
12. DIMENSIONS ARE GIVEN IN METERS WHERE APPROPRIATE.

13. DIMENSIONS ARE GIVEN IN CENTIMETERS WHERE APPROPRIATE.

14. DIMENSIONS ARE GIVEN IN MILLIMETERS WHERE APPROPRIATE.

15. DIMENSIONS ARE GIVEN IN PARENTHESIS WHERE APPROPRIATE.

16. DIMENSIONS ARE GIVEN IN INCHES UNLESS OTHERWISE SPECIFIED.

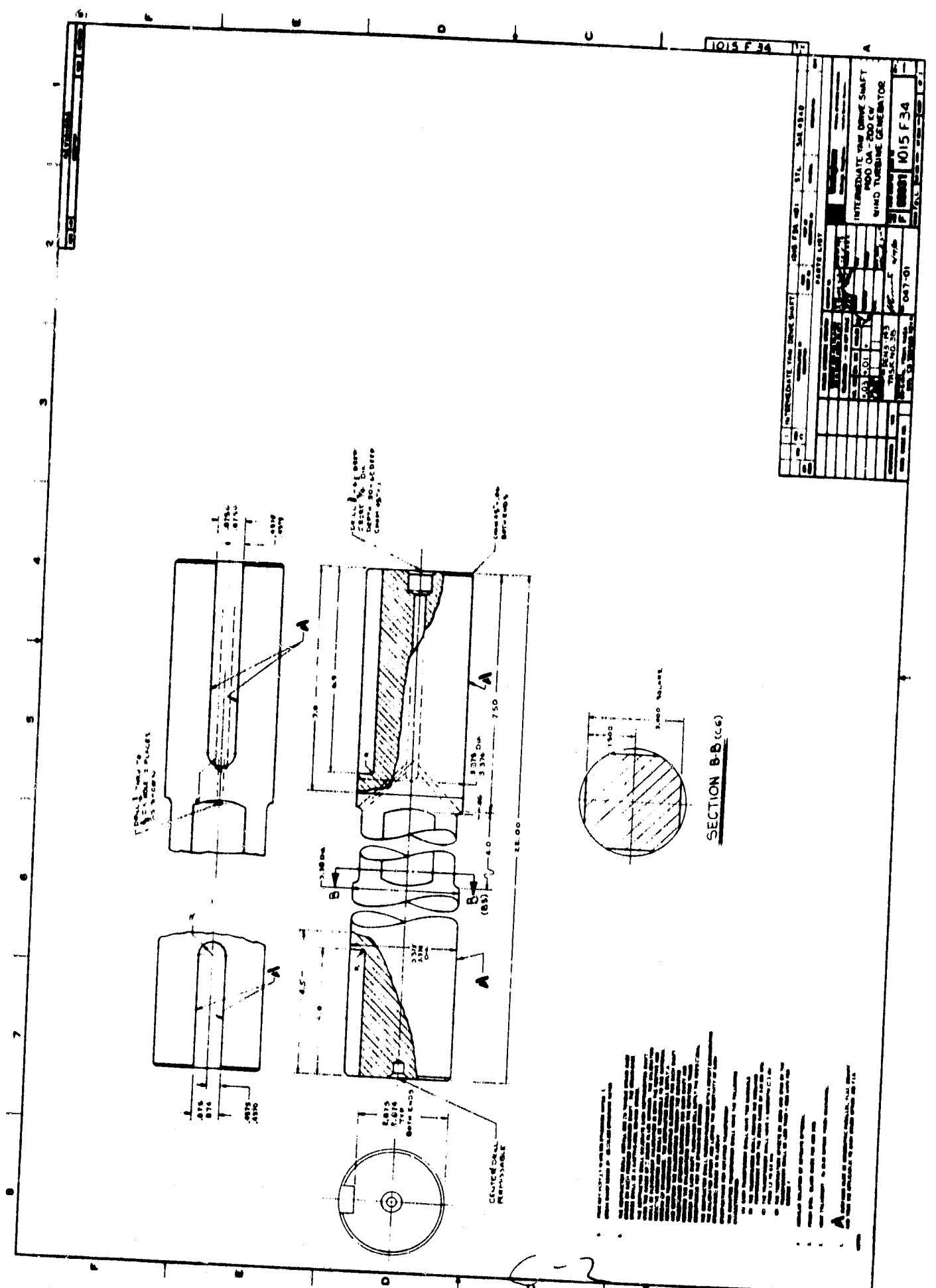


TOP VIEW
SECTION B-B
SECTION C-C

NO.	SECTION	SCALE	DATE	BY	CHKD.
1	B-B	1:1			
2	C-C	1:1			

TOP VIEW
SECTION B-B
SECTION C-C

TOP VIEW
SECTION B-B
SECTION C-C



SECTION B-B (CG)

1015 F 34

INTERMEDIATE YAW DRIVE SHAFT			
DESIGN NO.	DATE	REV.	BY
DRAWN BY: [Signature]			
CHECKED BY: [Signature]			
DATE: 08-7-01			
PROJECT: INTERMEDIATE YAW DRIVE SHAFT			
PART NO. 1015 F 34			

1. THIS DRAWING IS THE PROPERTY OF THE COMPANY AND IS TO BE KEPT IN CONFIDENCE. IT IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE COMPANY. ANY VIOLATION OF THESE TERMS SHALL BE HELD TO BE A BREACH OF CONTRACT AND SUBJECT TO LEGAL ACTION.

2. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. DIMENSIONS IN PARENTHESES ARE FOR REFERENCE ONLY.

3. THE SURFACE FINISH SHALL BE TO 150 RMS MAX UNLESS OTHERWISE SPECIFIED.

4. THE MATERIAL SHALL BE 4140 STEEL UNLESS OTHERWISE SPECIFIED.

5. THE PART SHALL BE STRESS RELIEVED AS SPECIFIED IN THE NOTES.

6. THE PART SHALL BE POLISHED AS SPECIFIED IN THE NOTES.

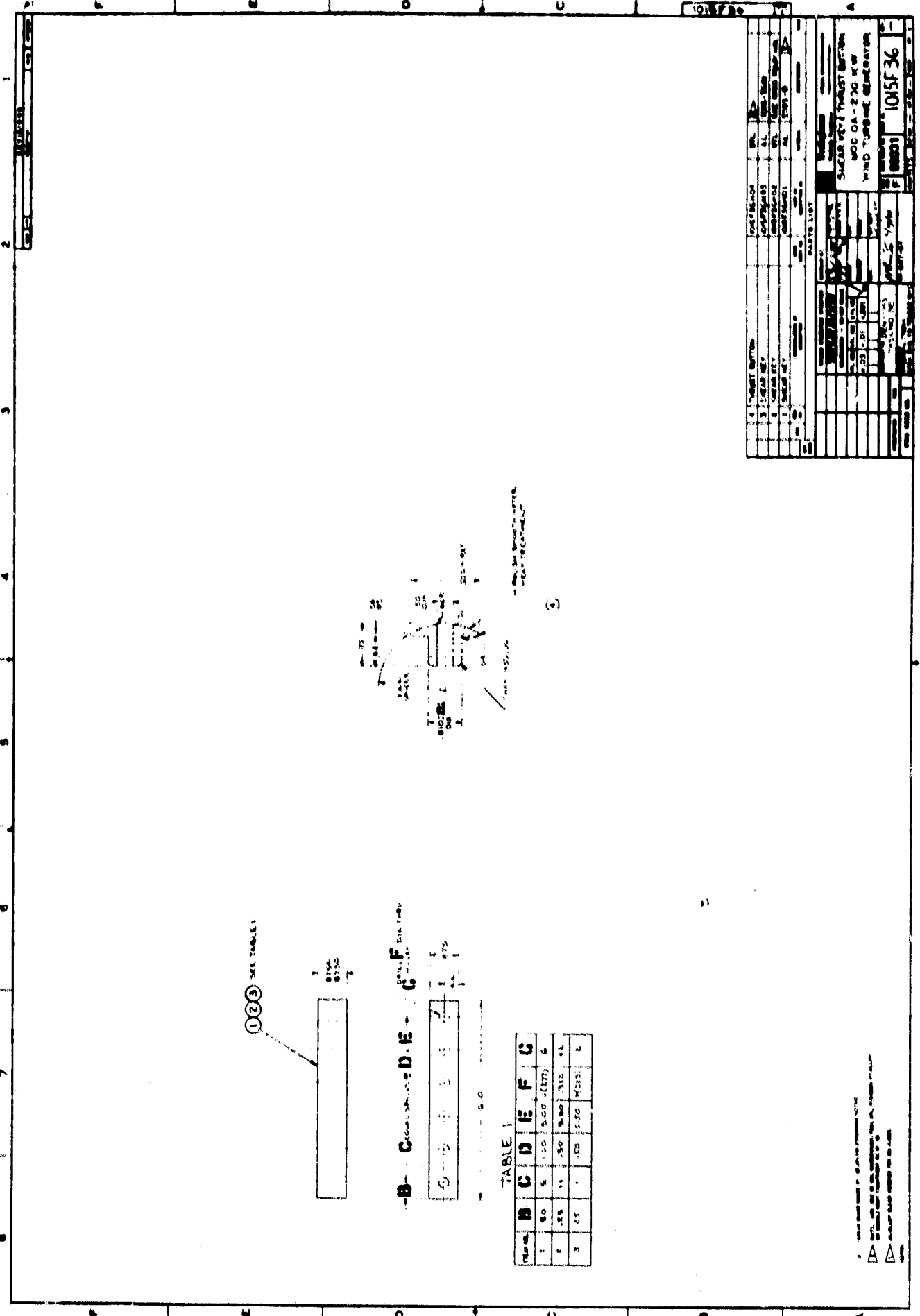
7. THE PART SHALL BE IDENTIFIED BY A PERMANENT MARKING AS SPECIFIED IN THE NOTES.

8. THE PART SHALL BE STORED IN A DRY, UNPOLLUTATED AREA TO PREVENT CORROSION.

9. THE PART SHALL BE PACKED IN A MANNER THAT WILL PREVENT DAMAGE DURING TRANSPORTATION.

10. THE PART SHALL BE DELIVERED TO THE CUSTOMER IN ACCORDANCE WITH THE ORDER.

6-2



①②③ SEE TABLES

1	0.75	0.75
2	0.75	0.75

B-C CIRCUMFERENCE OF DE **F** IN INCHES

1	2	3	4	5	6	7	8	9	10
0.75	1.50	2.25	3.00	3.75	4.50	5.25	6.00	6.75	7.50

TABLE 1

TABLE	B	C	D	E	F	G
1	80	8	1.50	3.00	(17)	6
2	25	15	.50	3.00	312	61
3	25	1	.50	5.50	4313	6

1. THIS TABLE IS TO BE USED IN CONNECTION WITH THE DRAWING OF THE WIND TURBINE GENERATOR. 2. THE VALUES IN THIS TABLE ARE IN INCHES. 3. THE VALUES IN THIS TABLE ARE IN INCHES.

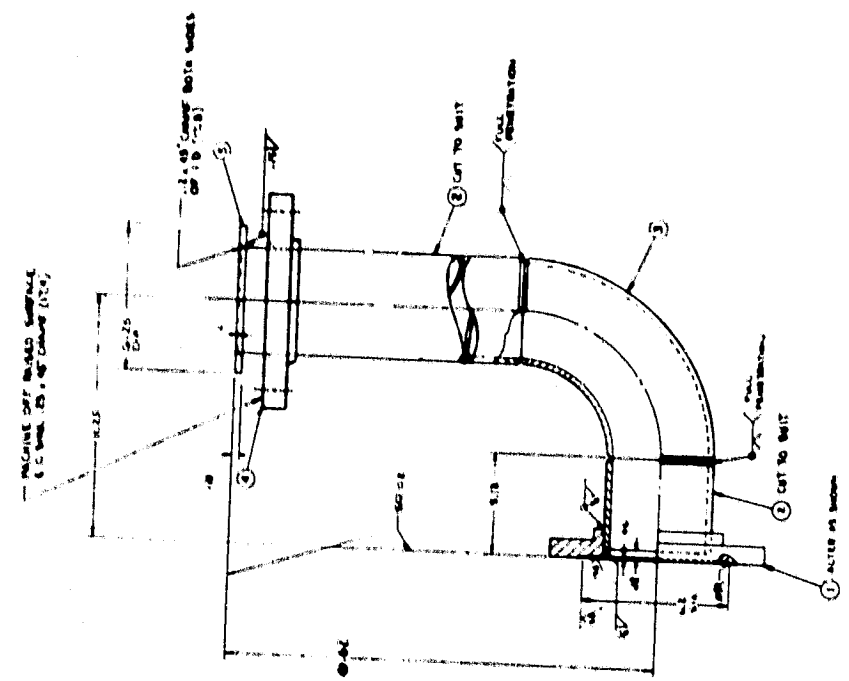
1	THROTTLE	100%	100%
2	WIND SPEED	100%	100%
3	WIND DIRECTION	100%	100%
4	WIND TURBINE GENERATOR	100%	100%
5	WIND TURBINE GENERATOR	100%	100%
6	WIND TURBINE GENERATOR	100%	100%
7	WIND TURBINE GENERATOR	100%	100%
8	WIND TURBINE GENERATOR	100%	100%
9	WIND TURBINE GENERATOR	100%	100%
10	WIND TURBINE GENERATOR	100%	100%
11	WIND TURBINE GENERATOR	100%	100%
12	WIND TURBINE GENERATOR	100%	100%
13	WIND TURBINE GENERATOR	100%	100%
14	WIND TURBINE GENERATOR	100%	100%
15	WIND TURBINE GENERATOR	100%	100%
16	WIND TURBINE GENERATOR	100%	100%
17	WIND TURBINE GENERATOR	100%	100%
18	WIND TURBINE GENERATOR	100%	100%
19	WIND TURBINE GENERATOR	100%	100%
20	WIND TURBINE GENERATOR	100%	100%
21	WIND TURBINE GENERATOR	100%	100%
22	WIND TURBINE GENERATOR	100%	100%
23	WIND TURBINE GENERATOR	100%	100%
24	WIND TURBINE GENERATOR	100%	100%
25	WIND TURBINE GENERATOR	100%	100%
26	WIND TURBINE GENERATOR	100%	100%
27	WIND TURBINE GENERATOR	100%	100%
28	WIND TURBINE GENERATOR	100%	100%
29	WIND TURBINE GENERATOR	100%	100%
30	WIND TURBINE GENERATOR	100%	100%
31	WIND TURBINE GENERATOR	100%	100%
32	WIND TURBINE GENERATOR	100%	100%
33	WIND TURBINE GENERATOR	100%	100%
34	WIND TURBINE GENERATOR	100%	100%
35	WIND TURBINE GENERATOR	100%	100%
36	WIND TURBINE GENERATOR	100%	100%
37	WIND TURBINE GENERATOR	100%	100%
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42	WIND TURBINE GENERATOR	100%	100%
43	WIND TURBINE GENERATOR	100%	100%
44	WIND TURBINE GENERATOR	100%	100%
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46	WIND TURBINE GENERATOR	100%	100%
47	WIND TURBINE GENERATOR	100%	100%
48	WIND TURBINE GENERATOR	100%	100%
49	WIND TURBINE GENERATOR	100%	100%
50	WIND TURBINE GENERATOR	100%	100%

1015F 36

1015 F37

REVISIONS		DATE	
NO.	DESCRIPTION	BY	DATE
1	ISSUED FOR CONSTRUCTION	W. J. ...	04-17-01
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GROUP NO.	1
GROUP NAME	1015 F37



GROUP-1

1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
 2. DIMENSIONS TO CENTER UNLESS OTHERWISE SPECIFIED.
 3. DIMENSIONS TO SURFACE UNLESS OTHERWISE SPECIFIED.
 4. DIMENSIONS TO EDGE UNLESS OTHERWISE SPECIFIED.
 5. DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED.
 6. DIMENSIONS TO HOLE UNLESS OTHERWISE SPECIFIED.
 7. DIMENSIONS TO CENTERLINE UNLESS OTHERWISE SPECIFIED.
 8. DIMENSIONS TO CENTER OF GRAVITY UNLESS OTHERWISE SPECIFIED.
 9. DIMENSIONS TO CENTER OF MASS UNLESS OTHERWISE SPECIFIED.
 10. DIMENSIONS TO CENTER OF BUOYANCY UNLESS OTHERWISE SPECIFIED.
 11. DIMENSIONS TO CENTER OF PRESSURE UNLESS OTHERWISE SPECIFIED.
 12. DIMENSIONS TO CENTER OF GRAVITY AND CENTER OF BUOYANCY UNLESS OTHERWISE SPECIFIED.
 13. DIMENSIONS TO CENTER OF GRAVITY AND CENTER OF PRESSURE UNLESS OTHERWISE SPECIFIED.
 14. DIMENSIONS TO CENTER OF GRAVITY AND CENTER OF MASS UNLESS OTHERWISE SPECIFIED.
 15. DIMENSIONS TO CENTER OF GRAVITY AND CENTER OF BUOYANCY AND CENTER OF PRESSURE UNLESS OTHERWISE SPECIFIED.
 16. DIMENSIONS TO CENTER OF GRAVITY AND CENTER OF MASS AND CENTER OF BUOYANCY UNLESS OTHERWISE SPECIFIED.
 17. DIMENSIONS TO CENTER OF GRAVITY AND CENTER OF MASS AND CENTER OF PRESSURE UNLESS OTHERWISE SPECIFIED.
 18. DIMENSIONS TO CENTER OF GRAVITY AND CENTER OF MASS AND CENTER OF BUOYANCY AND CENTER OF PRESSURE UNLESS OTHERWISE SPECIFIED.
 19. DIMENSIONS TO CENTER OF GRAVITY AND CENTER OF MASS AND CENTER OF BUOYANCY AND CENTER OF PRESSURE AND CENTER OF GRAVITY UNLESS OTHERWISE SPECIFIED.
 20. DIMENSIONS TO CENTER OF GRAVITY AND CENTER OF MASS AND CENTER OF BUOYANCY AND CENTER OF PRESSURE AND CENTER OF GRAVITY UNLESS OTHERWISE SPECIFIED.

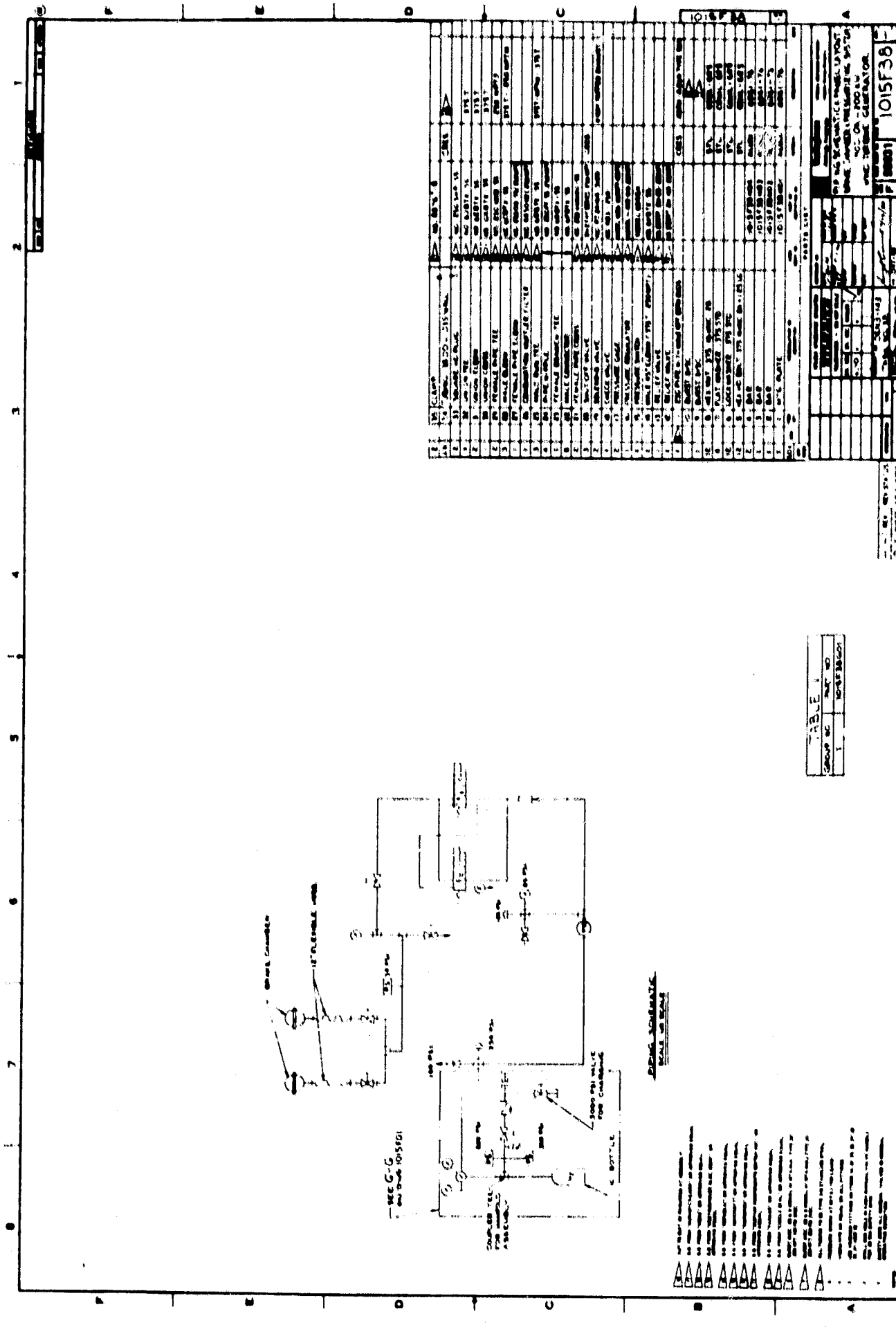


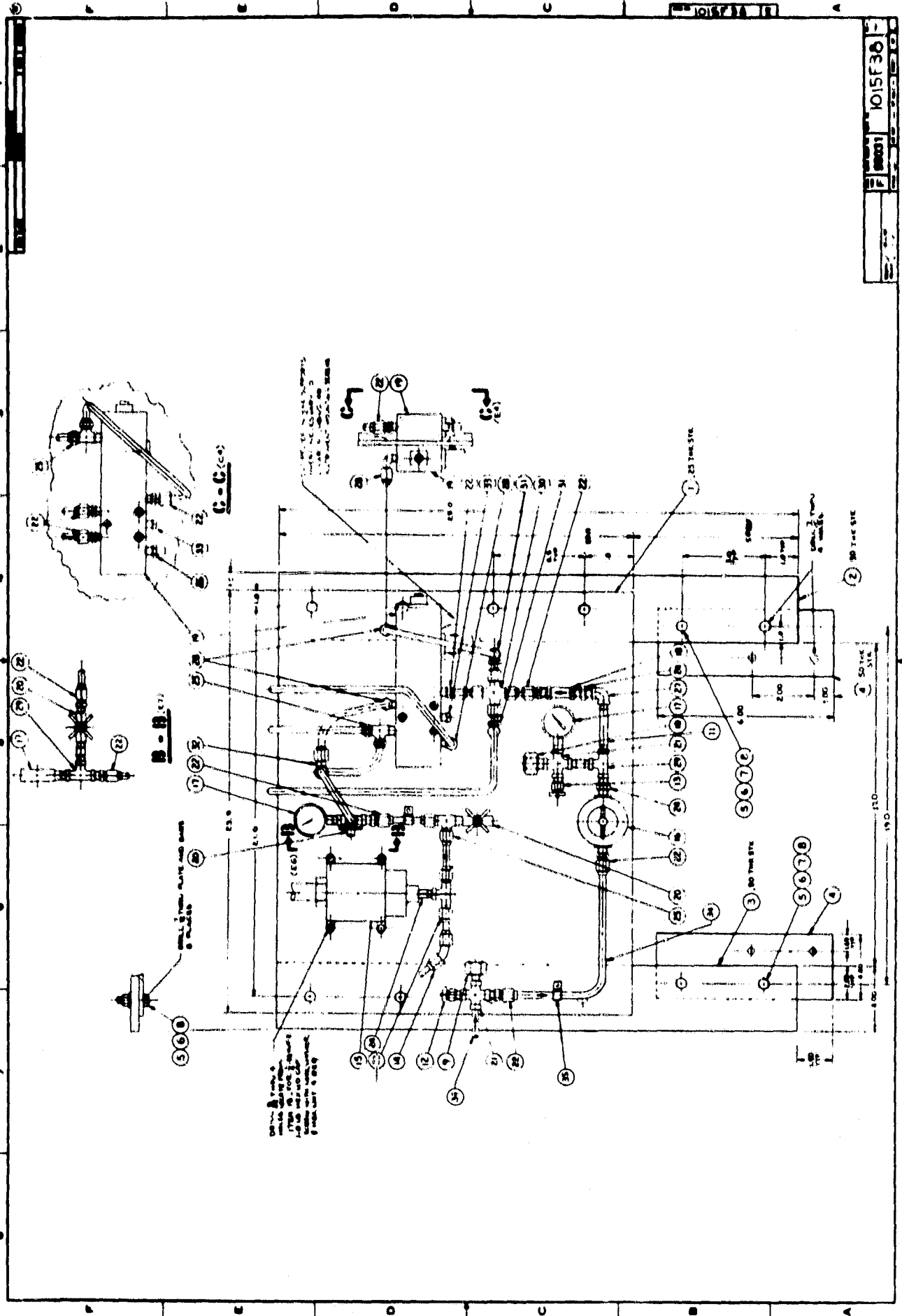
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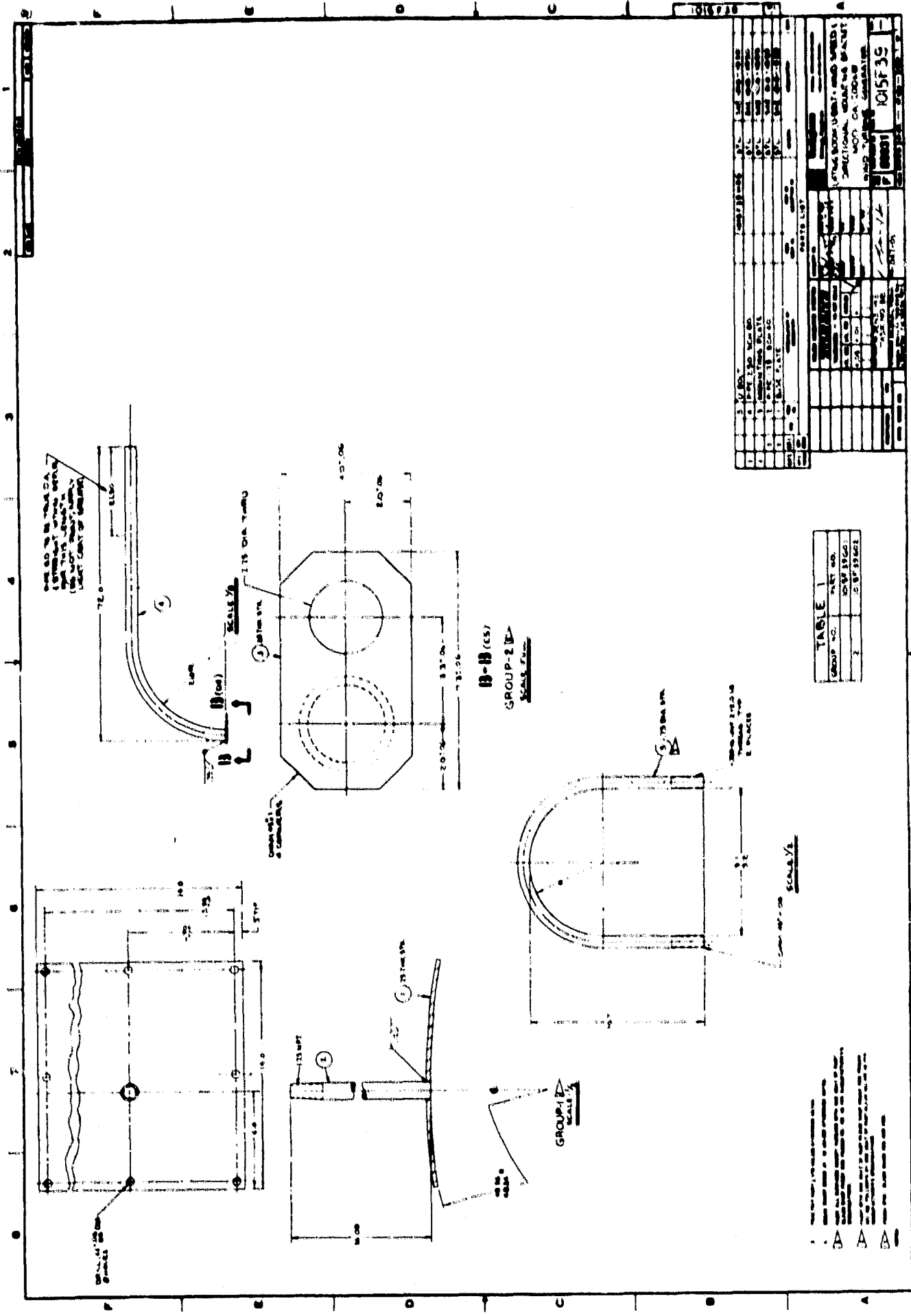
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2	5000 PSI VALVE FOR CHARGING	1	VALVE	1015501
3	RELAY	1	RELAY	1015501
4	RELAY	1	RELAY	1015501
5	RELAY	1	RELAY	1015501
6	RELAY	1	RELAY	1015501
7	RELAY	1	RELAY	1015501
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50	RELAY	1	RELAY	1015501

TABLE 1
GROUP NO. 1
REV. 1
DATE 10/15/50

1015F38

1015F38
 1015F38
 1015F38





1	20" DIA. DUCT	1/8" = 1'-0"	1015F39
2	20" DIA. DUCT	1/8" = 1'-0"	1015F39
3	20" DIA. DUCT	1/8" = 1'-0"	1015F39
4	20" DIA. DUCT	1/8" = 1'-0"	1015F39
5	20" DIA. DUCT	1/8" = 1'-0"	1015F39
6	20" DIA. DUCT	1/8" = 1'-0"	1015F39
7	20" DIA. DUCT	1/8" = 1'-0"	1015F39
8	20" DIA. DUCT	1/8" = 1'-0"	1015F39
9	20" DIA. DUCT	1/8" = 1'-0"	1015F39
10	20" DIA. DUCT	1/8" = 1'-0"	1015F39
11	20" DIA. DUCT	1/8" = 1'-0"	1015F39
12	20" DIA. DUCT	1/8" = 1'-0"	1015F39
13	20" DIA. DUCT	1/8" = 1'-0"	1015F39
14	20" DIA. DUCT	1/8" = 1'-0"	1015F39
15	20" DIA. DUCT	1/8" = 1'-0"	1015F39
16	20" DIA. DUCT	1/8" = 1'-0"	1015F39
17	20" DIA. DUCT	1/8" = 1'-0"	1015F39
18	20" DIA. DUCT	1/8" = 1'-0"	1015F39
19	20" DIA. DUCT	1/8" = 1'-0"	1015F39
20	20" DIA. DUCT	1/8" = 1'-0"	1015F39
21	20" DIA. DUCT	1/8" = 1'-0"	1015F39
22	20" DIA. DUCT	1/8" = 1'-0"	1015F39
23	20" DIA. DUCT	1/8" = 1'-0"	1015F39
24	20" DIA. DUCT	1/8" = 1'-0"	1015F39
25	20" DIA. DUCT	1/8" = 1'-0"	1015F39
26	20" DIA. DUCT	1/8" = 1'-0"	1015F39
27	20" DIA. DUCT	1/8" = 1'-0"	1015F39
28	20" DIA. DUCT	1/8" = 1'-0"	1015F39
29	20" DIA. DUCT	1/8" = 1'-0"	1015F39
30	20" DIA. DUCT	1/8" = 1'-0"	1015F39

TABLE 1		
GROUP NO.	PART NO.	
1	20" DIA. DUCT	1015F39
2	20" DIA. DUCT	1015F39

1. THE DUCT SHALL BE INSTALLED IN THE WALL WITH THE DUCT END TO THE RIGHT (SEE PLAN OF BUILDING).
 2. THE DUCT SHALL BE INSTALLED IN THE WALL WITH THE DUCT END TO THE RIGHT (SEE PLAN OF BUILDING).
 3. THE DUCT SHALL BE INSTALLED IN THE WALL WITH THE DUCT END TO THE RIGHT (SEE PLAN OF BUILDING).

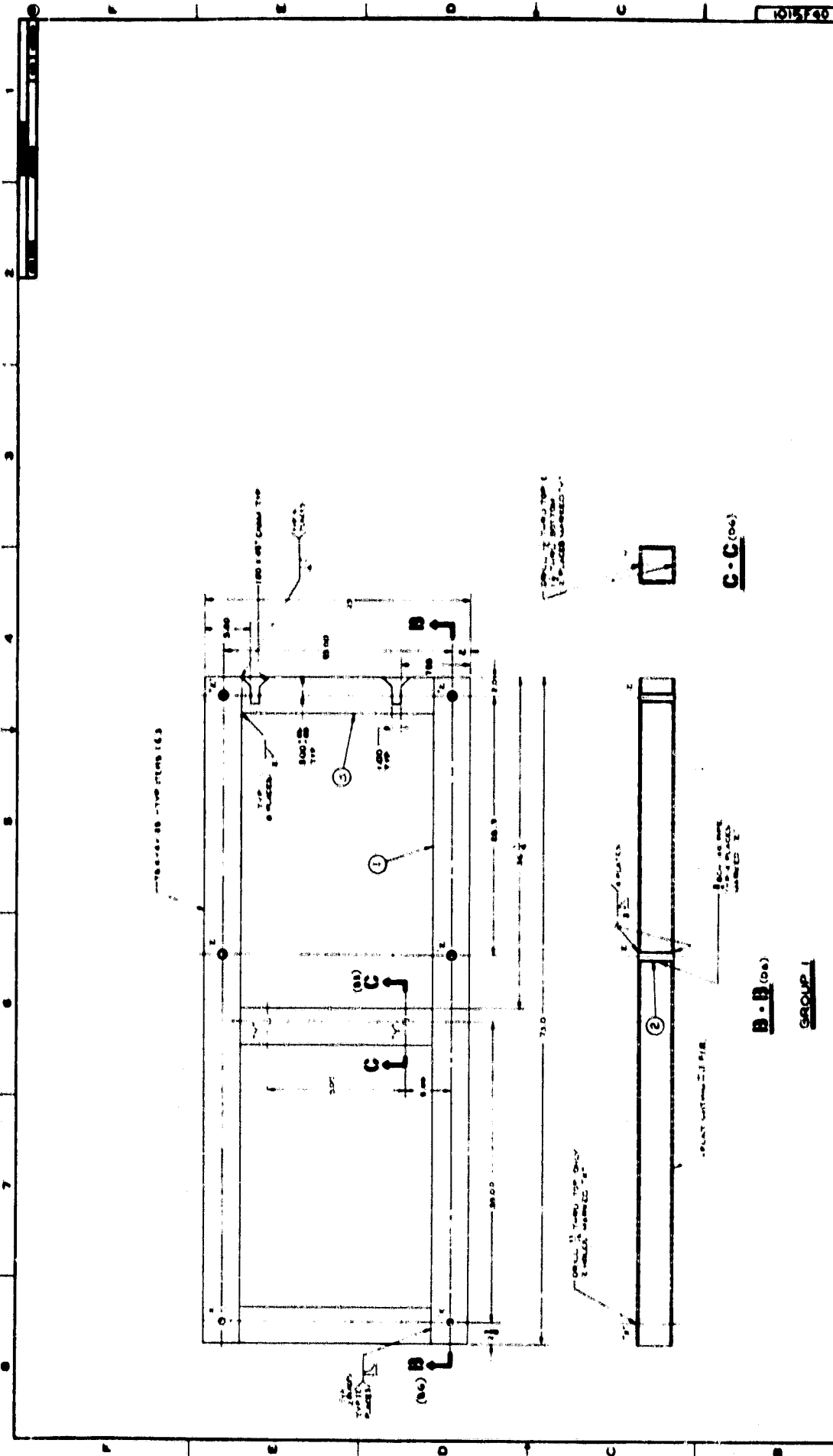


TABLE 1

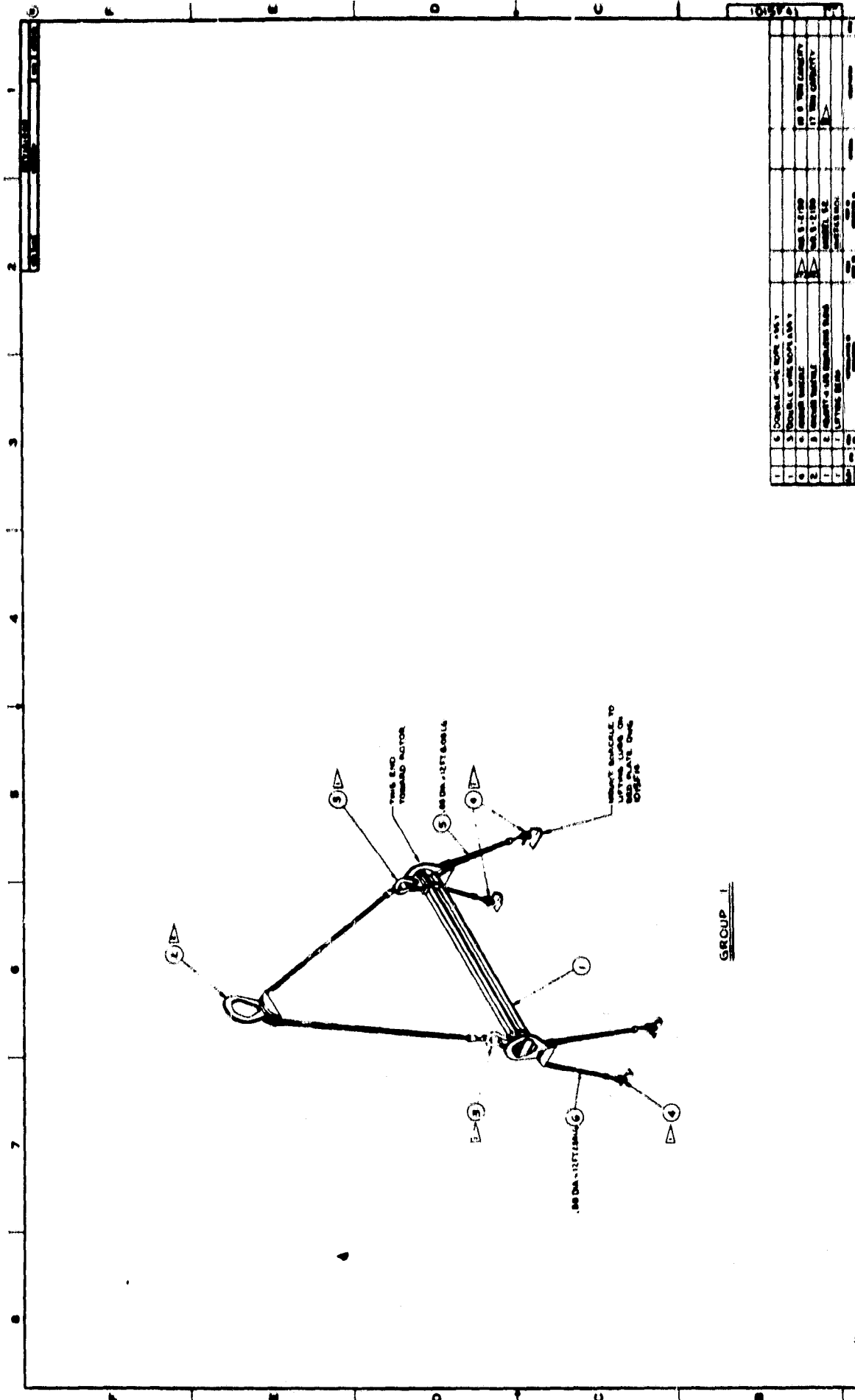
NO.	DESCRIPTION	QTY.	UNIT	AMOUNT
1

NO.	DESCRIPTION	QTY.	UNIT	AMOUNT
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C-C (06)

B-B (06)

GROUP 1

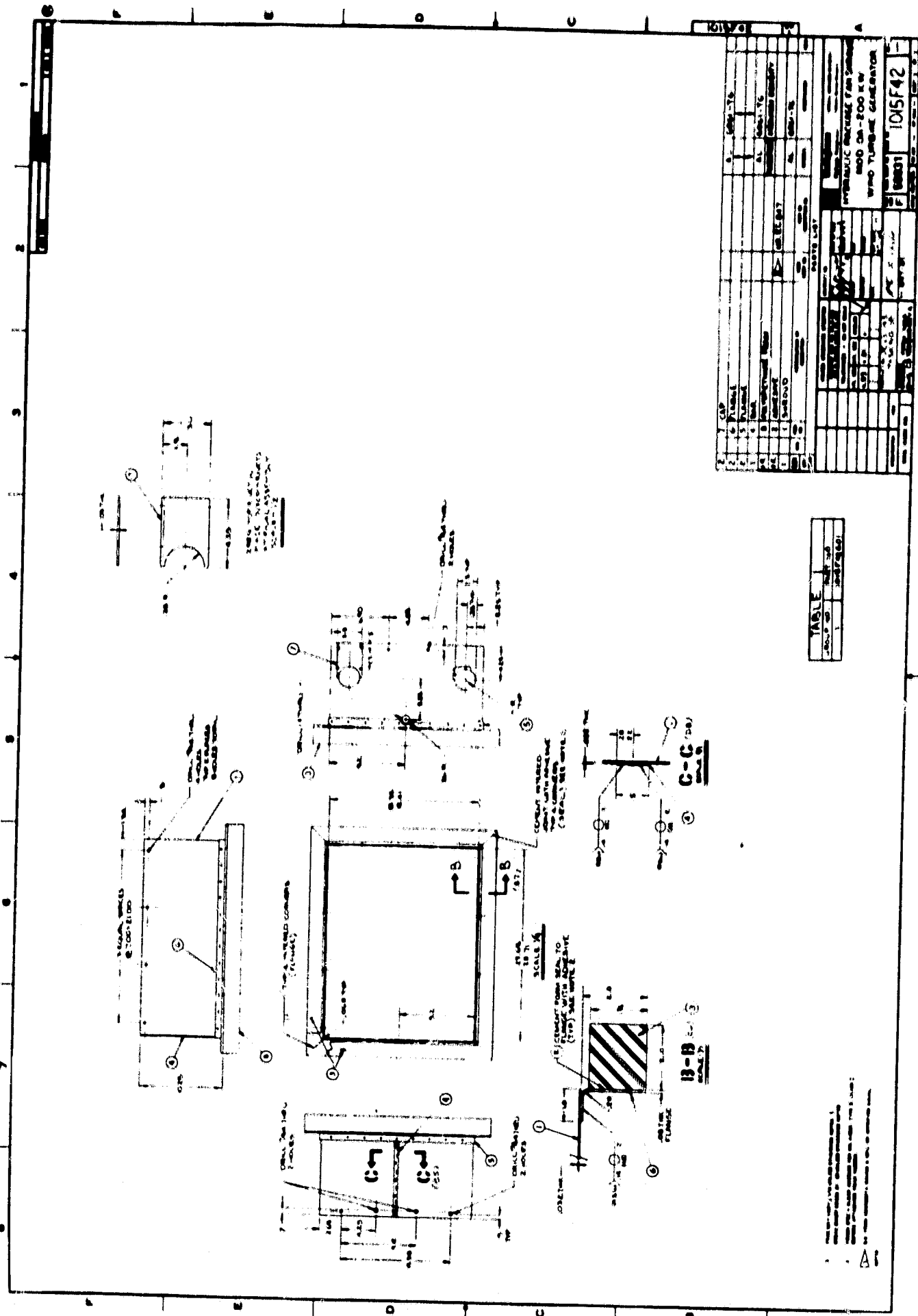


GROUP 1

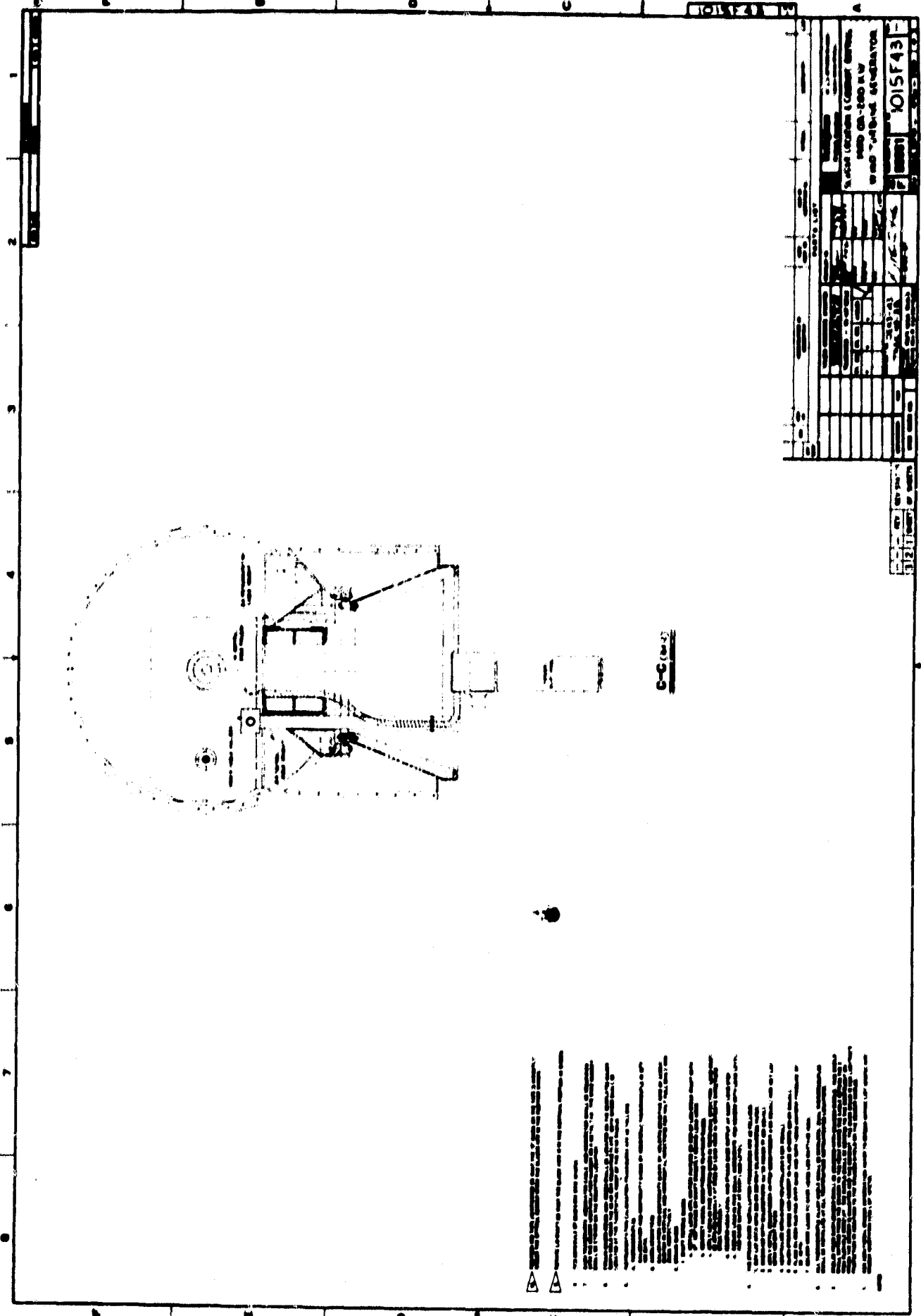
▲ TO THE RIGHT OF THE NUMBERED PARTS
 ARE LISTED THE PARTS AND THEIR
 DESCRIPTIONS. THE PARTS LIST IS
 TO BE USED TO IDENTIFY THE PARTS
 SHOWN ON THE DRAWING. THE PARTS
 LIST IS NOT TO BE USED TO IDENTIFY
 THE PARTS OF THE ASSEMBLY.

TABLE	GROUP NO.	PART NO.	DESCRIPTION
1	1	1	1

PARTS LIST		LETTERS BEHIND SLUGS ASSY	
1	DRUM AND WINCH MOUNT		
2	DRUM AND WINCH MOUNT		
3	DRUM AND WINCH MOUNT		
4	DRUM AND WINCH MOUNT		
5	DRUM AND WINCH MOUNT		
6	DRUM AND WINCH MOUNT		
7	DRUM AND WINCH MOUNT		
8	DRUM AND WINCH MOUNT		
		1000 OH - 200 KW WIND TURBINE GENERATOR	
		101541	



AB



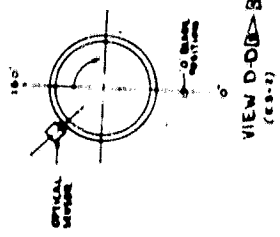
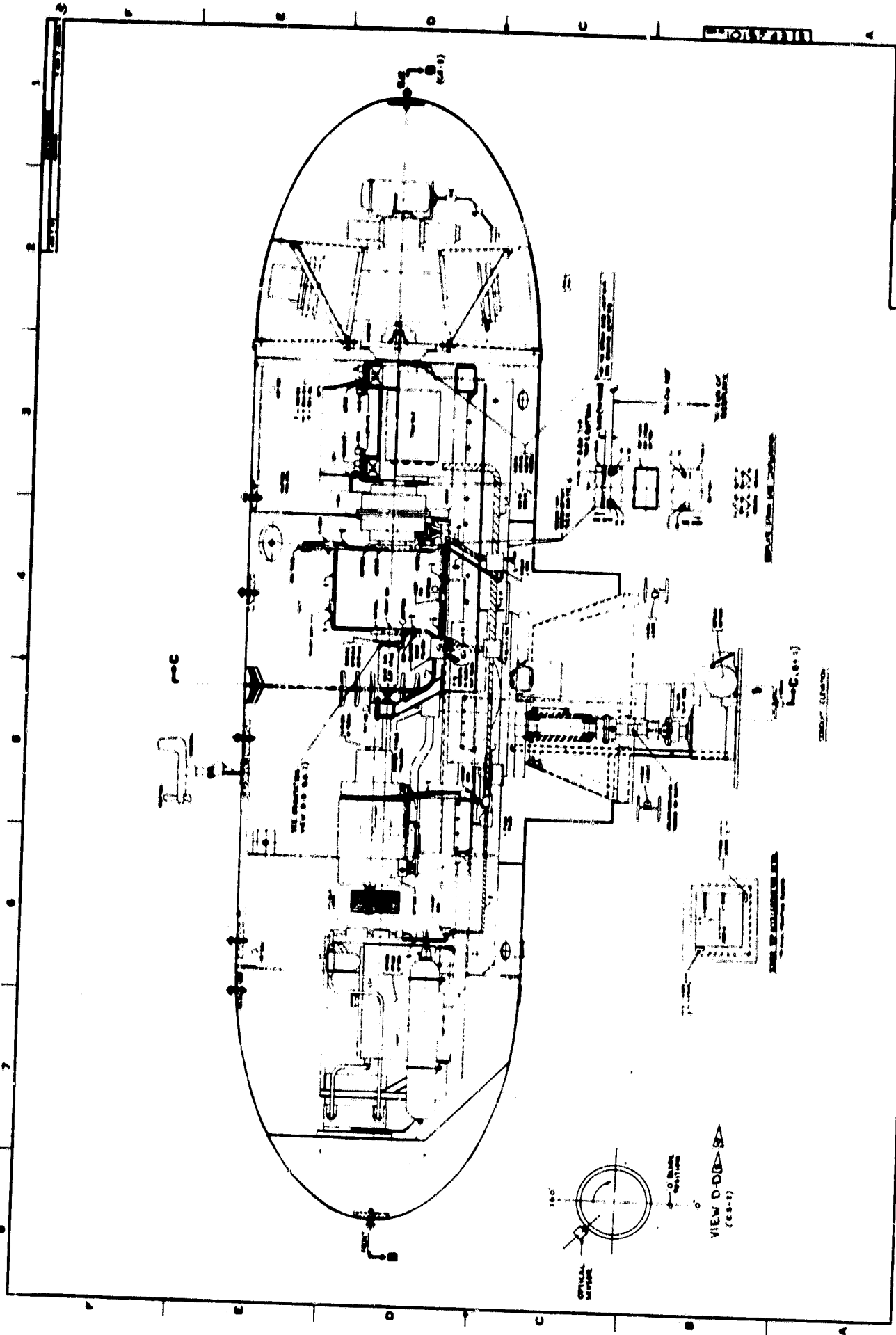
C-C (Rev. 2)

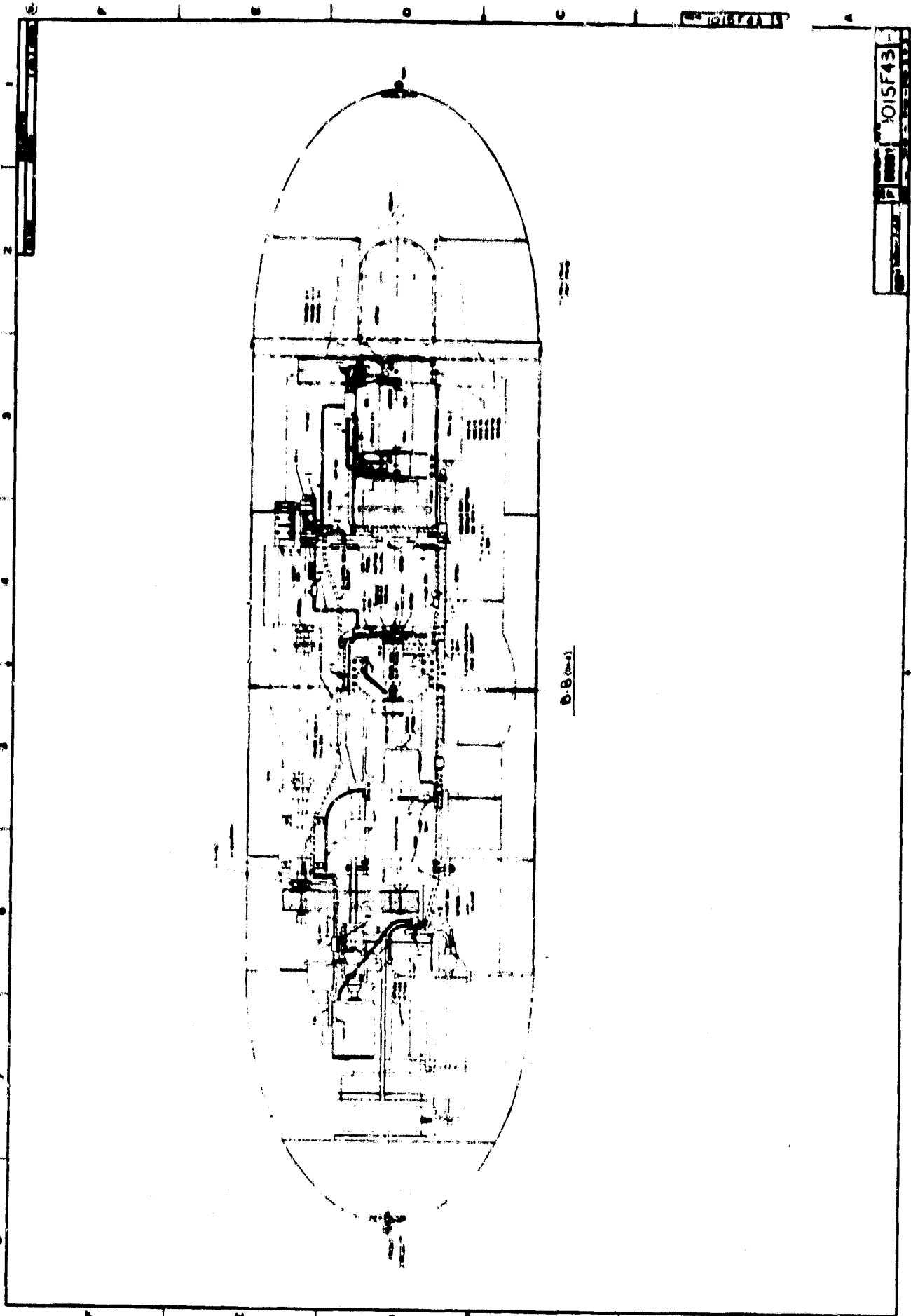
- 1. THIS DRAWING IS THE PROPERTY OF THE UNITED STATES GOVERNMENT AND IS LOANED TO YOU BY THE NATIONAL BUREAU OF STANDARDS. IT IS TO BE USED FOR THE PURPOSES SPECIFIED IN THE ORDER AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE NATIONAL BUREAU OF STANDARDS.
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- 5. THE NATIONAL BUREAU OF STANDARDS MAKES NO WARRANTY, EXPRESS OR IMPLIED, FOR THE ACCURACY, COMPLETENESS, OR SUITABILITY OF ANY INFORMATION CONTAINED HEREIN.
- 6. THE NATIONAL BUREAU OF STANDARDS MAKES NO WARRANTY, EXPRESS OR IMPLIED, FOR THE ACCURACY, COMPLETENESS, OR SUITABILITY OF ANY INFORMATION CONTAINED HEREIN.
- 7. THE NATIONAL BUREAU OF STANDARDS MAKES NO WARRANTY, EXPRESS OR IMPLIED, FOR THE ACCURACY, COMPLETENESS, OR SUITABILITY OF ANY INFORMATION CONTAINED HEREIN.
- 8. THE NATIONAL BUREAU OF STANDARDS MAKES NO WARRANTY, EXPRESS OR IMPLIED, FOR THE ACCURACY, COMPLETENESS, OR SUITABILITY OF ANY INFORMATION CONTAINED HEREIN.
- 9. THE NATIONAL BUREAU OF STANDARDS MAKES NO WARRANTY, EXPRESS OR IMPLIED, FOR THE ACCURACY, COMPLETENESS, OR SUITABILITY OF ANY INFORMATION CONTAINED HEREIN.
- 10. THE NATIONAL BUREAU OF STANDARDS MAKES NO WARRANTY, EXPRESS OR IMPLIED, FOR THE ACCURACY, COMPLETENESS, OR SUITABILITY OF ANY INFORMATION CONTAINED HEREIN.

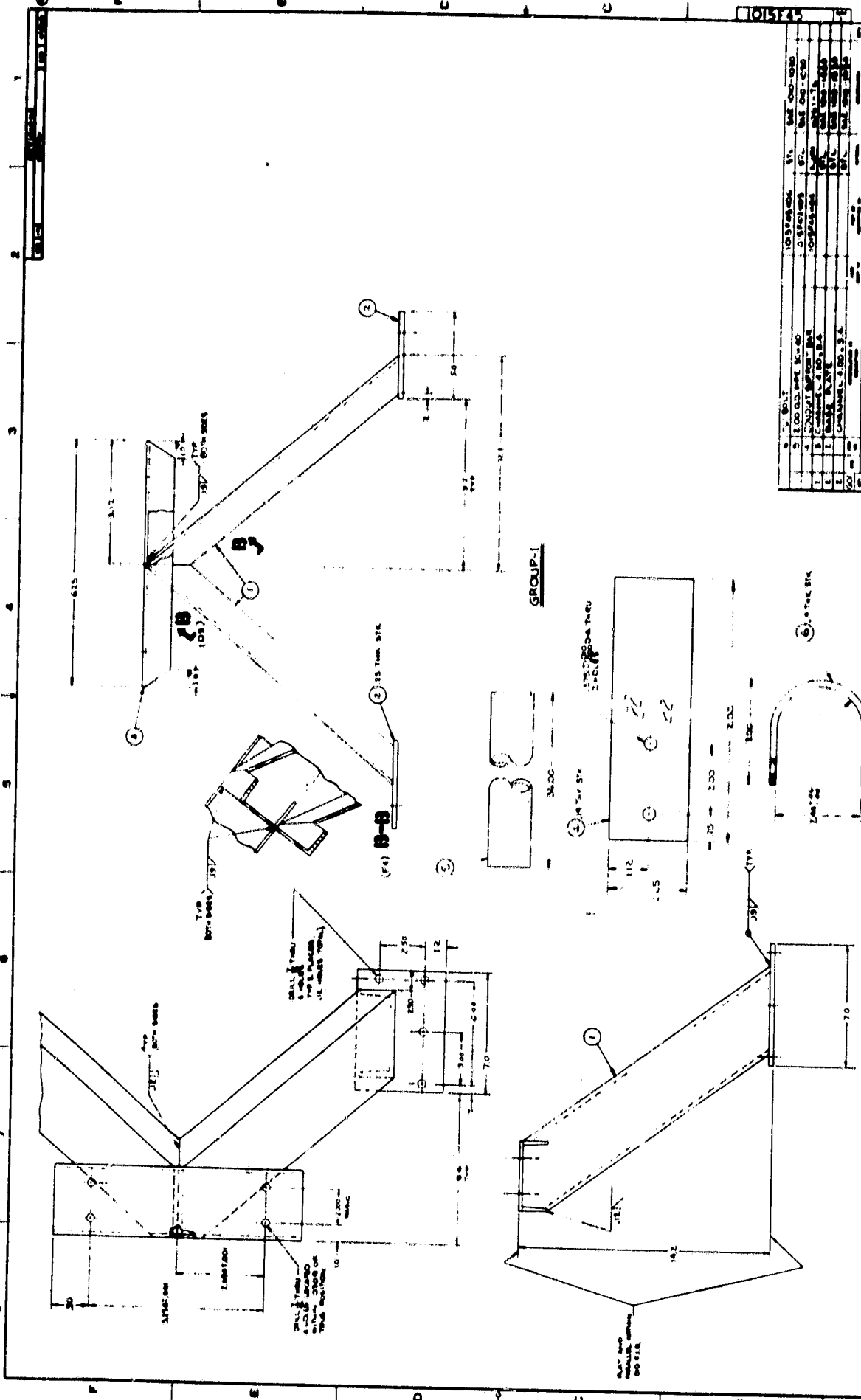
REVISIONS		DATE		BY		CHECKED		APPROVED	
1	AS SHOWN								
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1015F43

1015F43







NO.	QTY	DESCRIPTION	SPL	REV	DATE
1	1	BASE PLATE			
2	1	BRACKET			
3	1	SCREW			
4	1	WASHER			
5	1	BOLT			
6	1	TABLE			
7	1	SCREW			
8	1	WASHER			
9	1	BOLT			
10	1	SCREW			
11	1	WASHER			
12	1	BOLT			
13	1	SCREW			
14	1	WASHER			
15	1	BOLT			
16	1	SCREW			
17	1	WASHER			
18	1	BOLT			
19	1	SCREW			
20	1	WASHER			

GROUP NO.	PART NO.
1	1015745

1. THIS DRAWING IS THE PROPERTY OF THE U.S. GOVERNMENT AND IS TO BE USED FOR THE PURPOSES SPECIFIED IN THE CONTRACT UNDER WHICH IT WAS PREPARED. IT IS TO BE RETURNED TO THE SOURCE FROM WHICH IT WAS OBTAINED UPON THE COMPLETION OF THE PROJECT FOR WHICH IT WAS PREPARED.

2. THIS DRAWING IS THE PROPERTY OF THE U.S. GOVERNMENT AND IS TO BE USED FOR THE PURPOSES SPECIFIED IN THE CONTRACT UNDER WHICH IT WAS PREPARED. IT IS TO BE RETURNED TO THE SOURCE FROM WHICH IT WAS OBTAINED UPON THE COMPLETION OF THE PROJECT FOR WHICH IT WAS PREPARED.

3. THIS DRAWING IS THE PROPERTY OF THE U.S. GOVERNMENT AND IS TO BE USED FOR THE PURPOSES SPECIFIED IN THE CONTRACT UNDER WHICH IT WAS PREPARED. IT IS TO BE RETURNED TO THE SOURCE FROM WHICH IT WAS OBTAINED UPON THE COMPLETION OF THE PROJECT FOR WHICH IT WAS PREPARED.

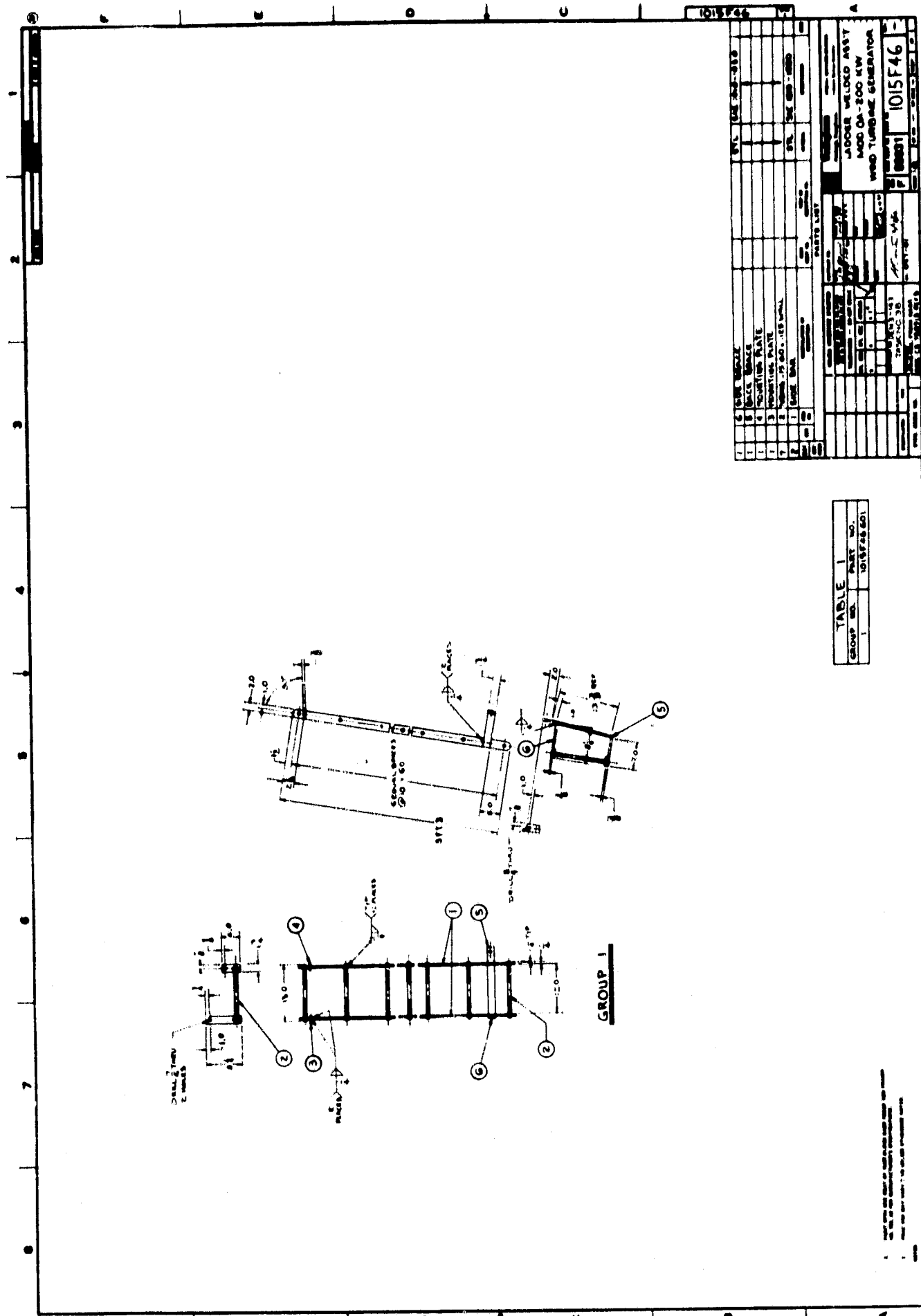


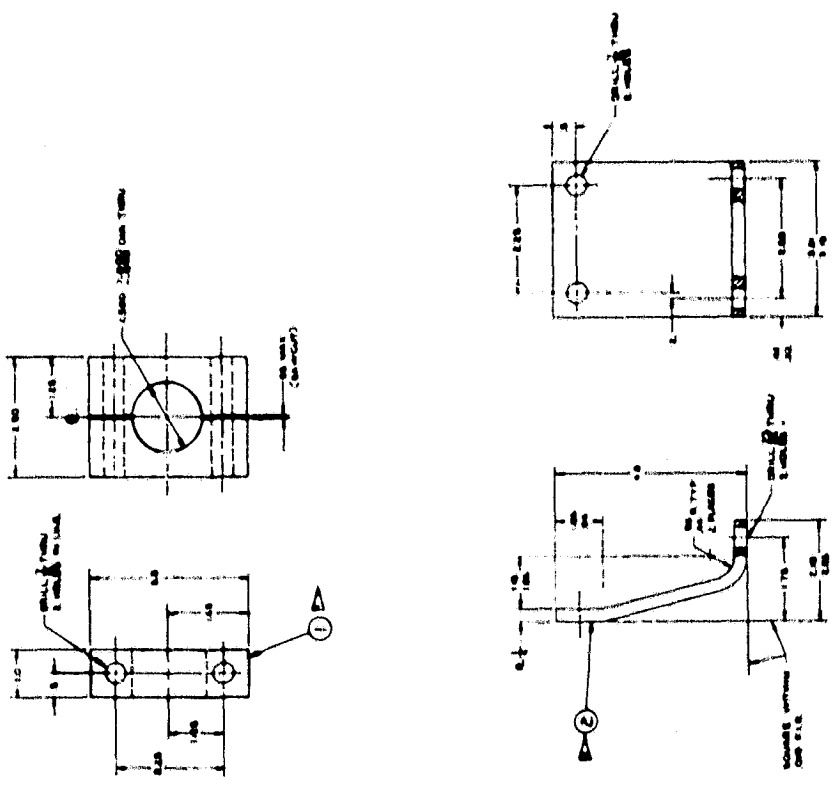
TABLE 1
 GROUP NO. 1
 PART NO. 1015F46 201

PARTS LIST		REV. NO. 200-000	
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100	SCREWING PLATE		

JACOBS WELDED ASST
 1400 GA - 200 KW
 WIND TURBINE GENERATOR

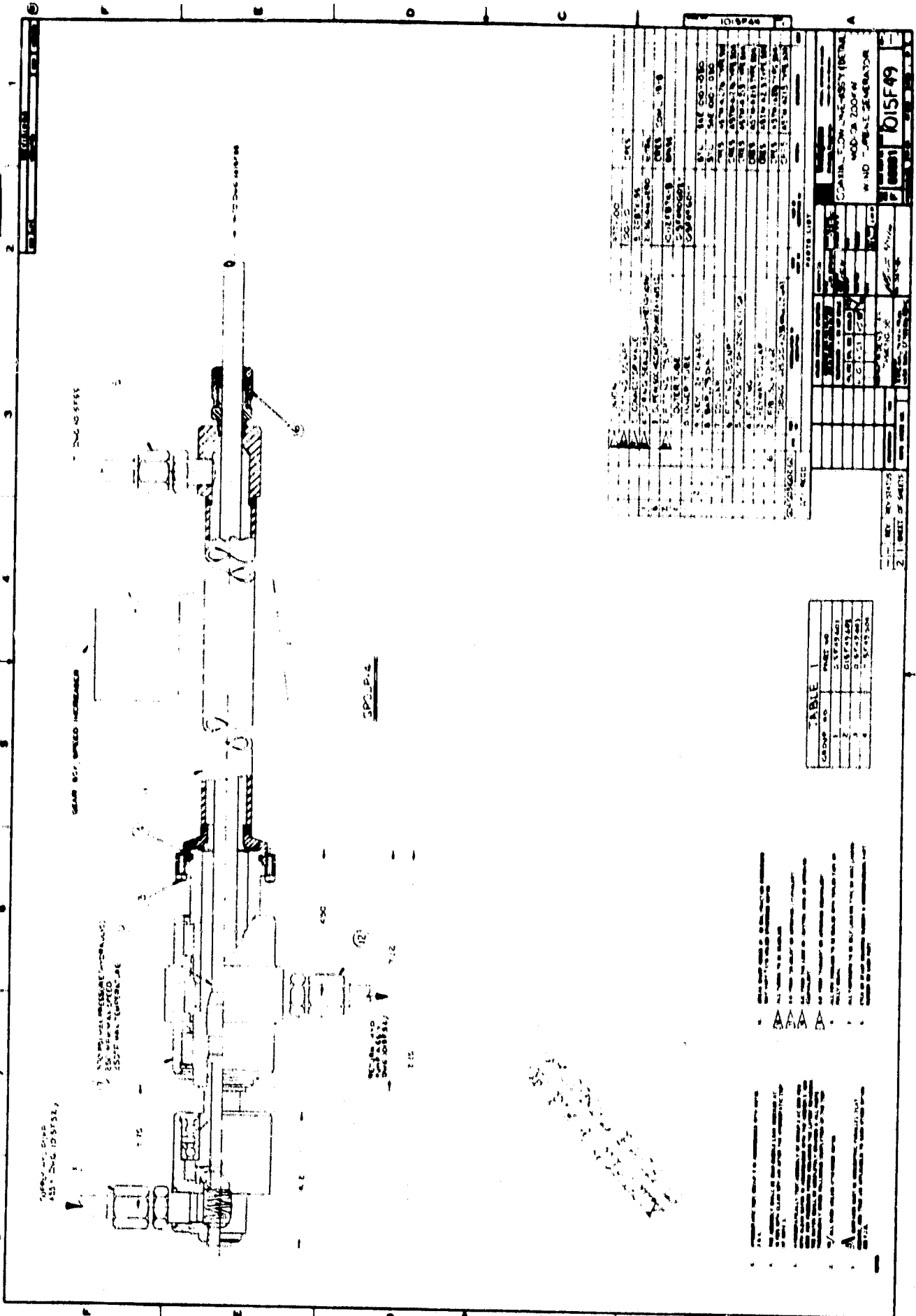
1015F46	1015F46
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1. Dwg. No.		2. Rev.		3. Date		4. Part No.		5. Title		6. Author		7. Checker		8. Approver		9. Issue	
101574								HYDRAULIC SUPPLY CLAMP & SUPPORT FOR 20-200 CM									
<p>10. Description of Part</p> <p>11. Material</p> <p>12. Quantity</p> <p>13. Drawing Date</p> <p>14. Drawing Scale</p> <p>15. Drawing No.</p>																	
<p>16. Remarks</p> <p>17. Signature</p>																	
<p>18. Part No. 101574</p> <p>19. Title: HYDRAULIC SUPPLY CLAMP & SUPPORT FOR 20-200 CM</p>																	



ORIGINAL PAGE IS
OF POOR QUALITY

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APPROXIMATE DISK
457-200 1057532

2 INCH PRESSURE INCREASE
3 INCH PRESSURE INCREASE
4 INCH PRESSURE INCREASE

GEAR BOX SPEED INCREASES

2 INCH DISK SPEED

SPC-P-4

2 INCH DISK SPEED

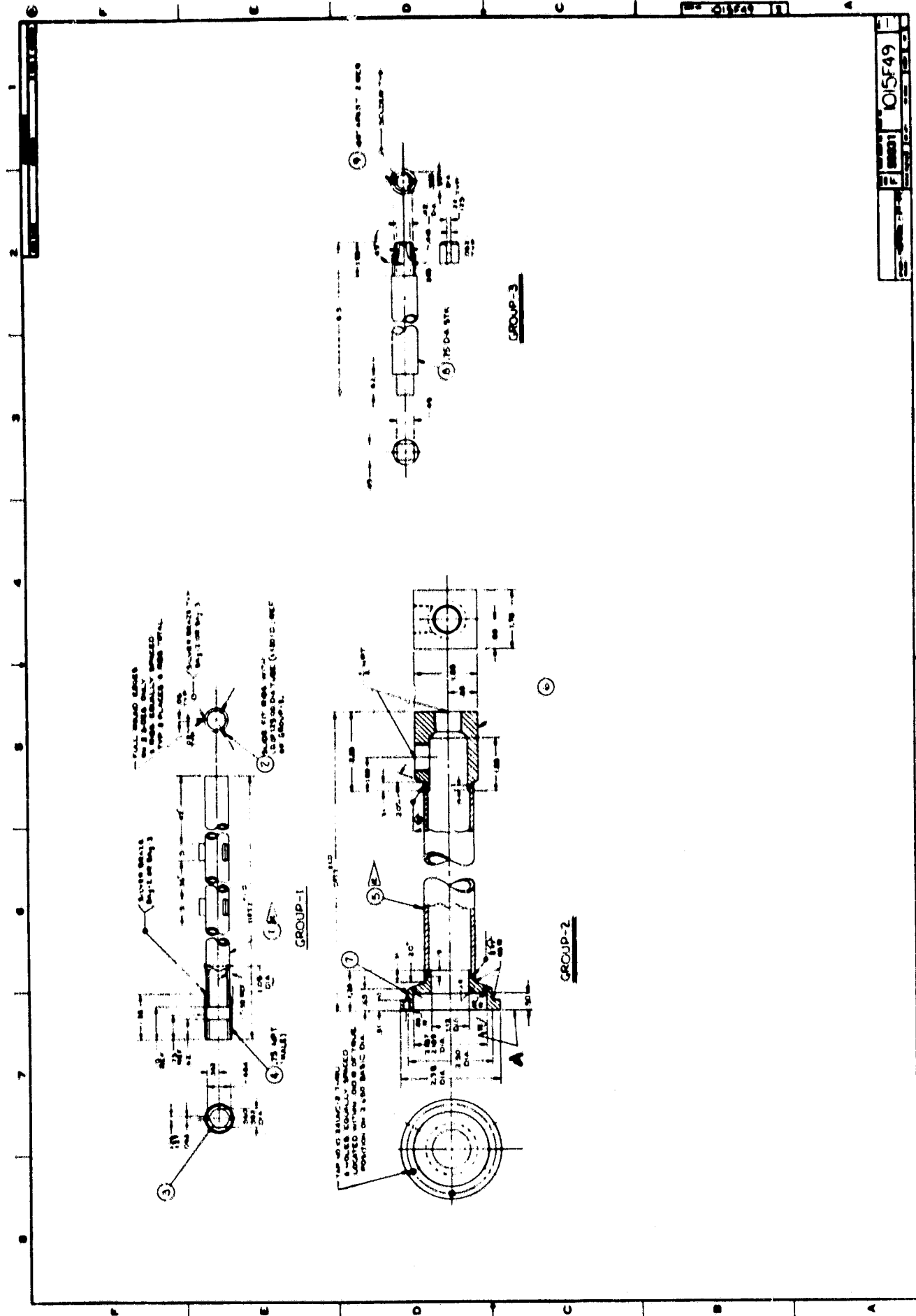
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3	3	10/15/49
4	4	10/15/49

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CONTROL PANEL ASSEMBLY (RPM)
WIND TURBINE GENERATOR

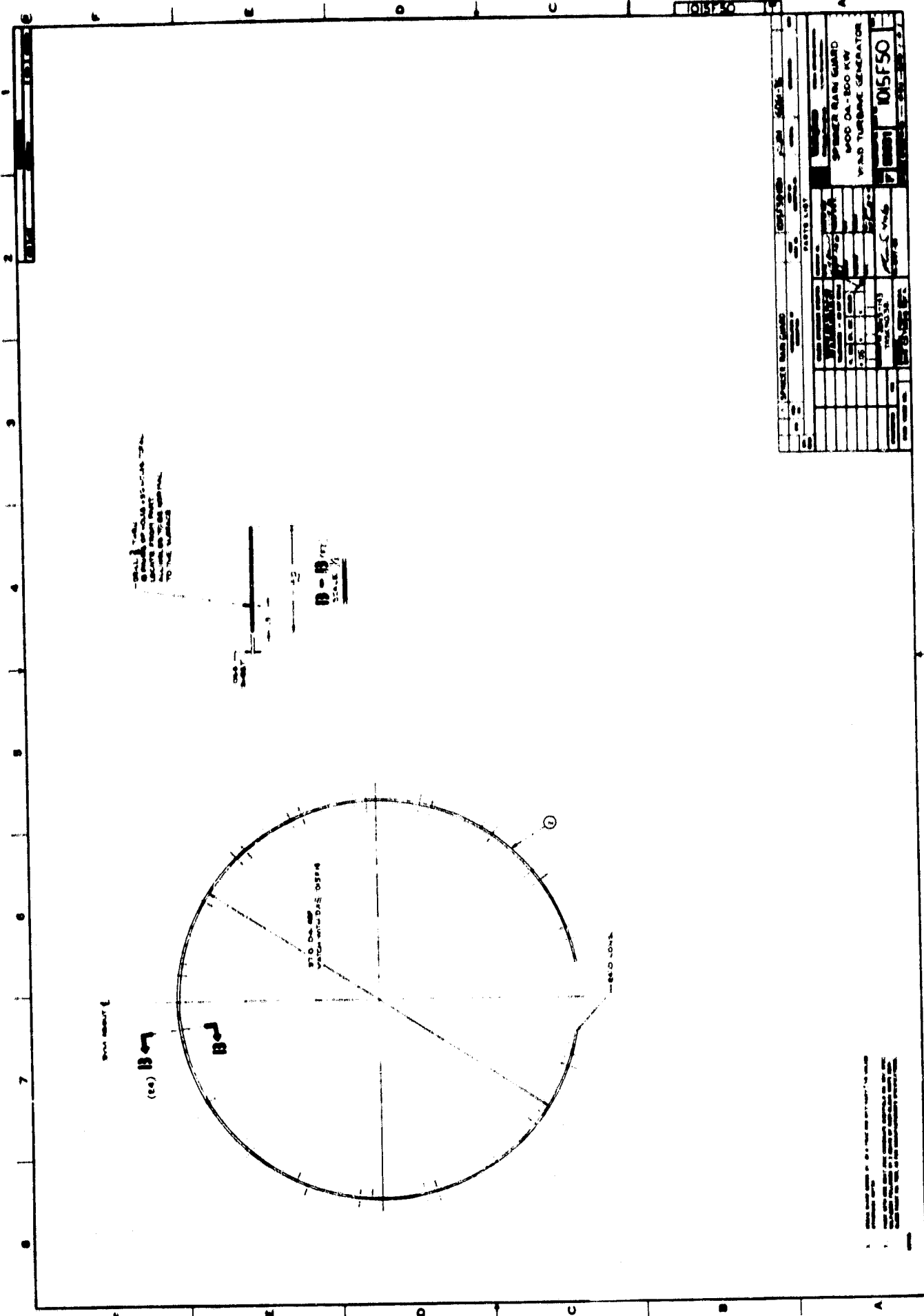
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REV. NO. 10/15/49
21 SHEET OF 50/75



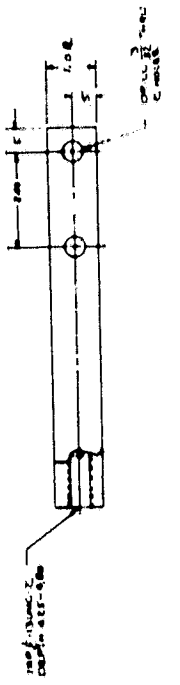
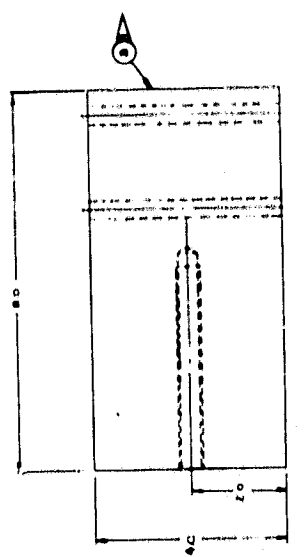
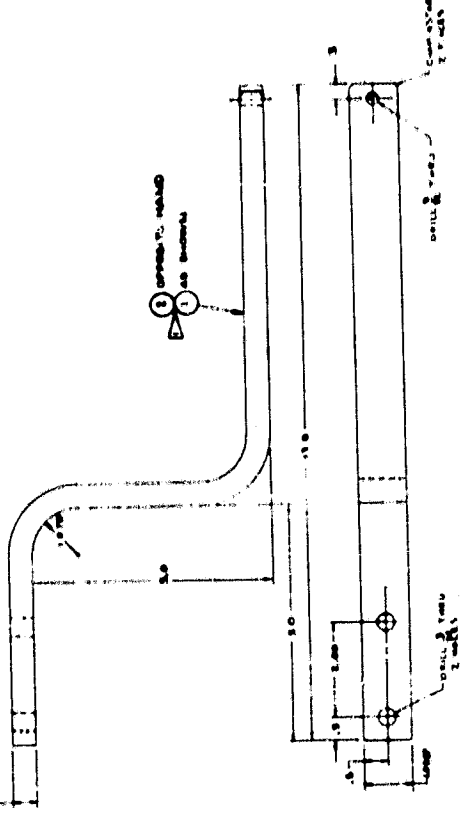
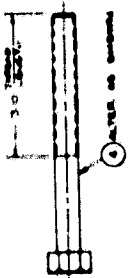
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DESIGNATION		DATE		PROJECT		DRAWING NO.	
1	DRILLING	01/01/51	01/01/51	MOUNTING		1015F51	
2	WELDING	01/01/51	01/01/51	MOUNTING		1015F51	
3	MATERIAL	01/01/51	01/01/51	MOUNTING		1015F51	
4	FINISHING	01/01/51	01/01/51	MOUNTING		1015F51	



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ALL DIMENSIONS IN INCHES
UNLESS OTHERWISE SPECIFIED

TOTALS (See Note)	
NO.	AMOUNT
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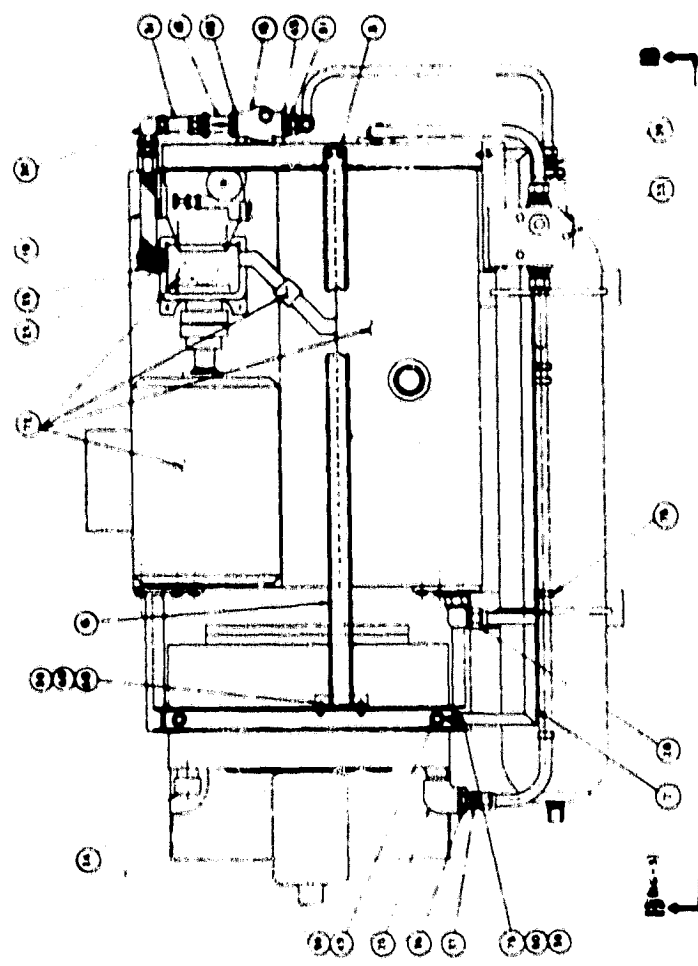
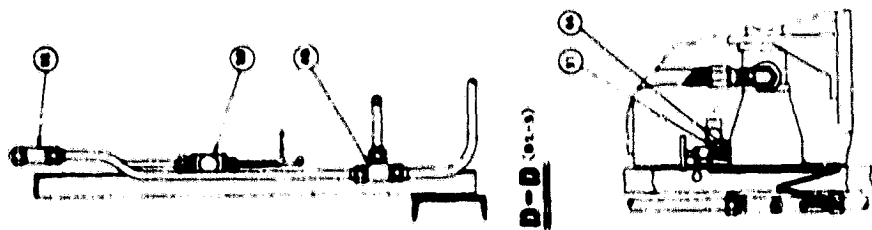
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PAGE NO. 10151200

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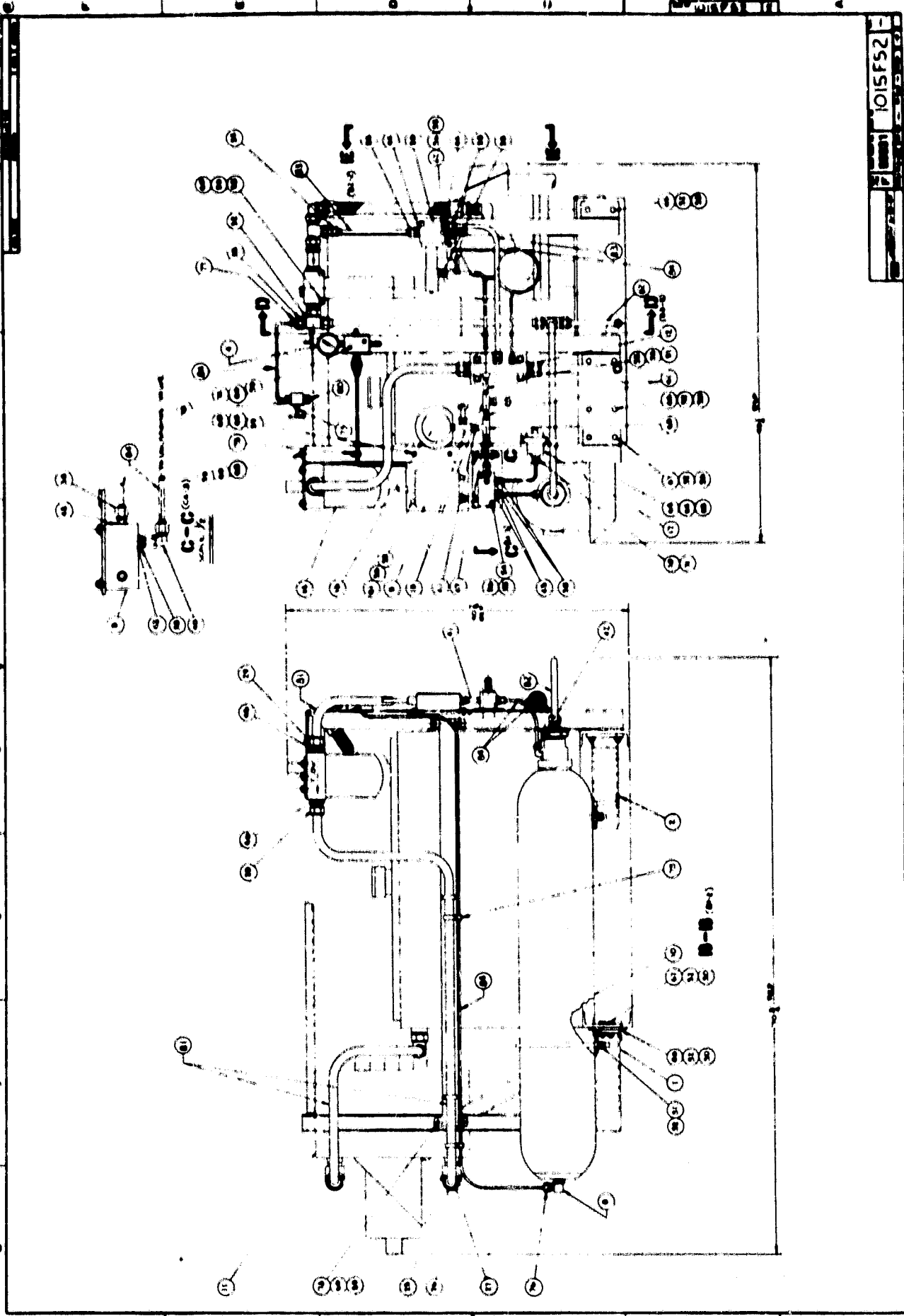
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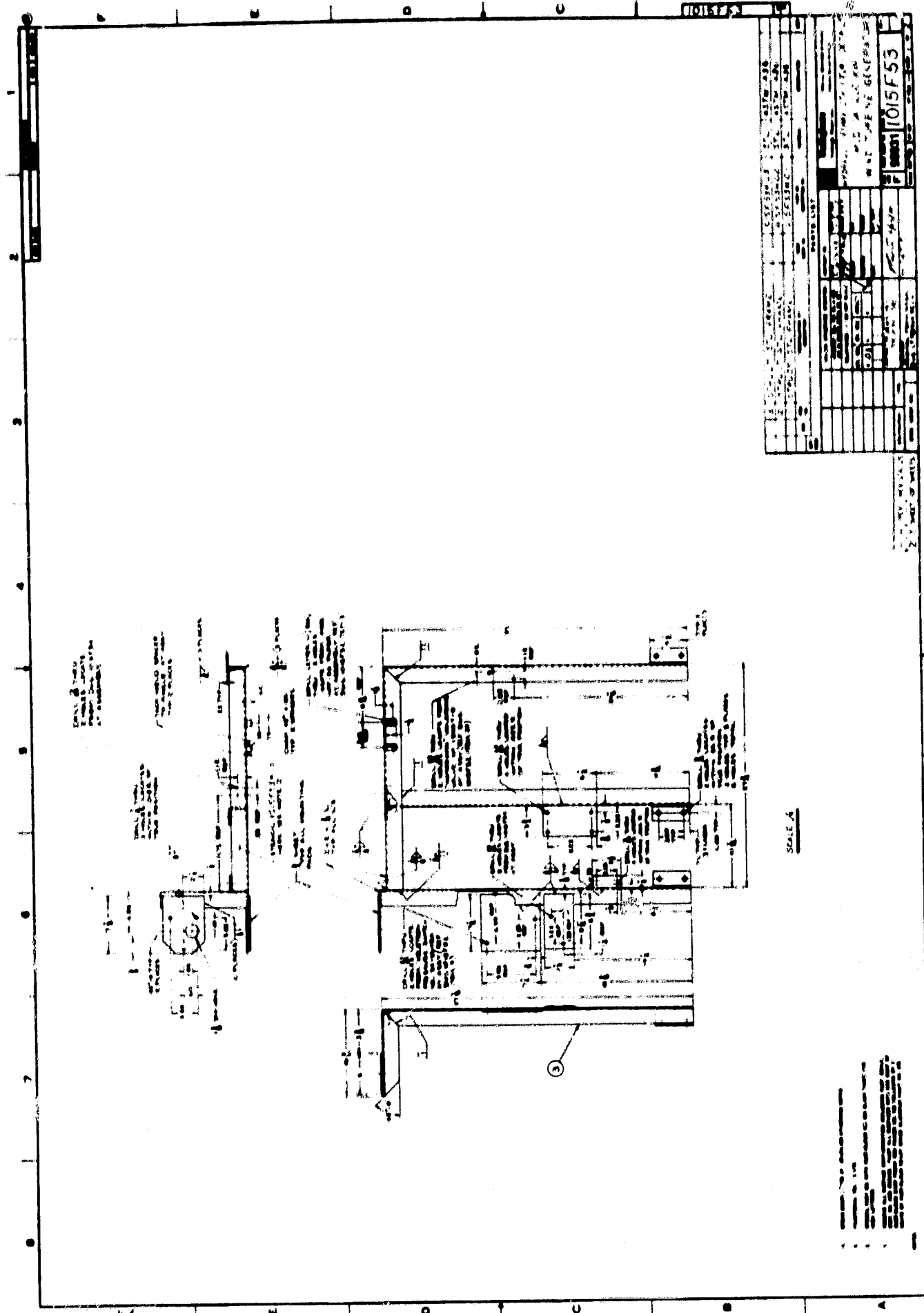
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GROUP NO.	PAGE NO.
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NO. OF LINES 10151200



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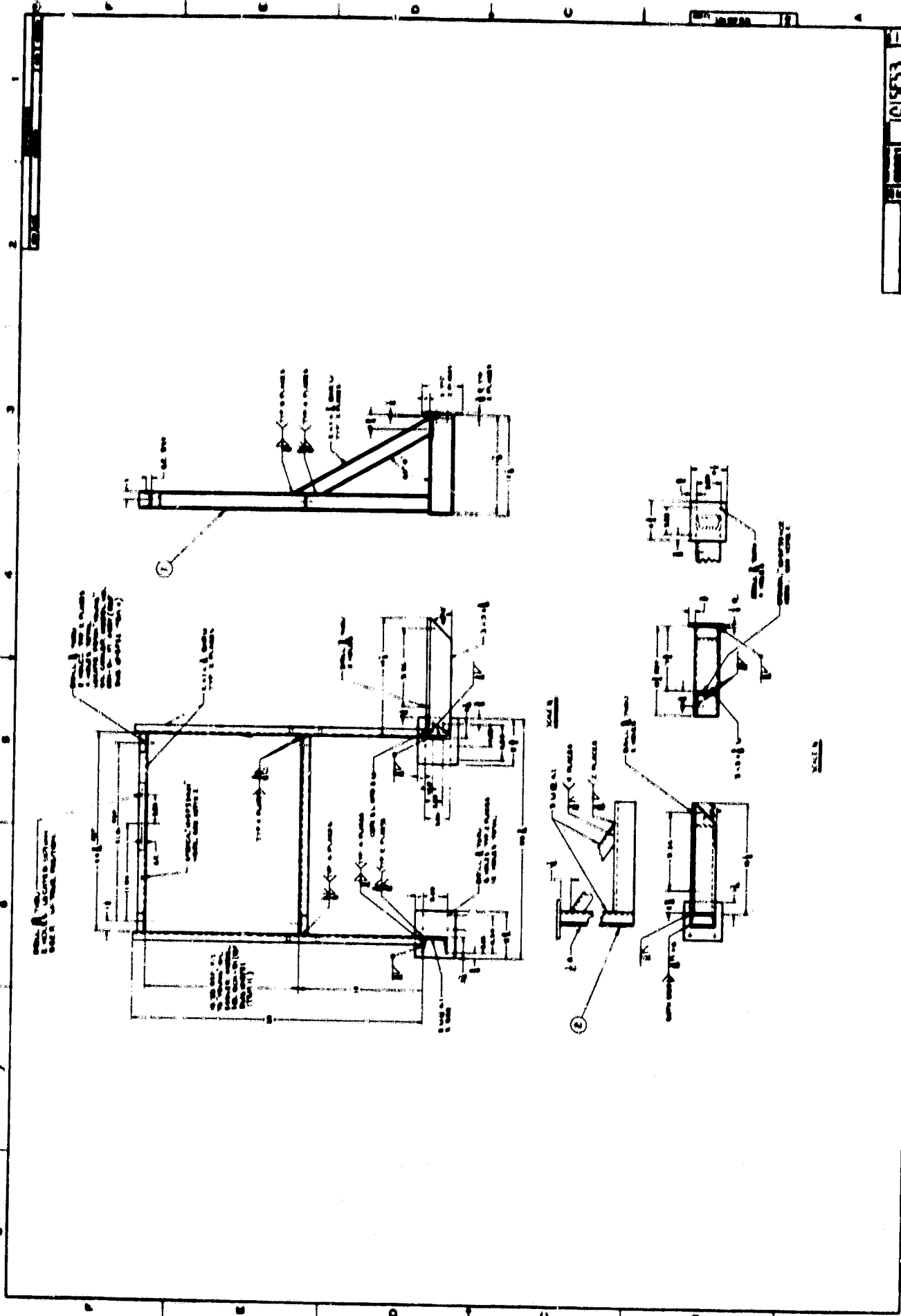


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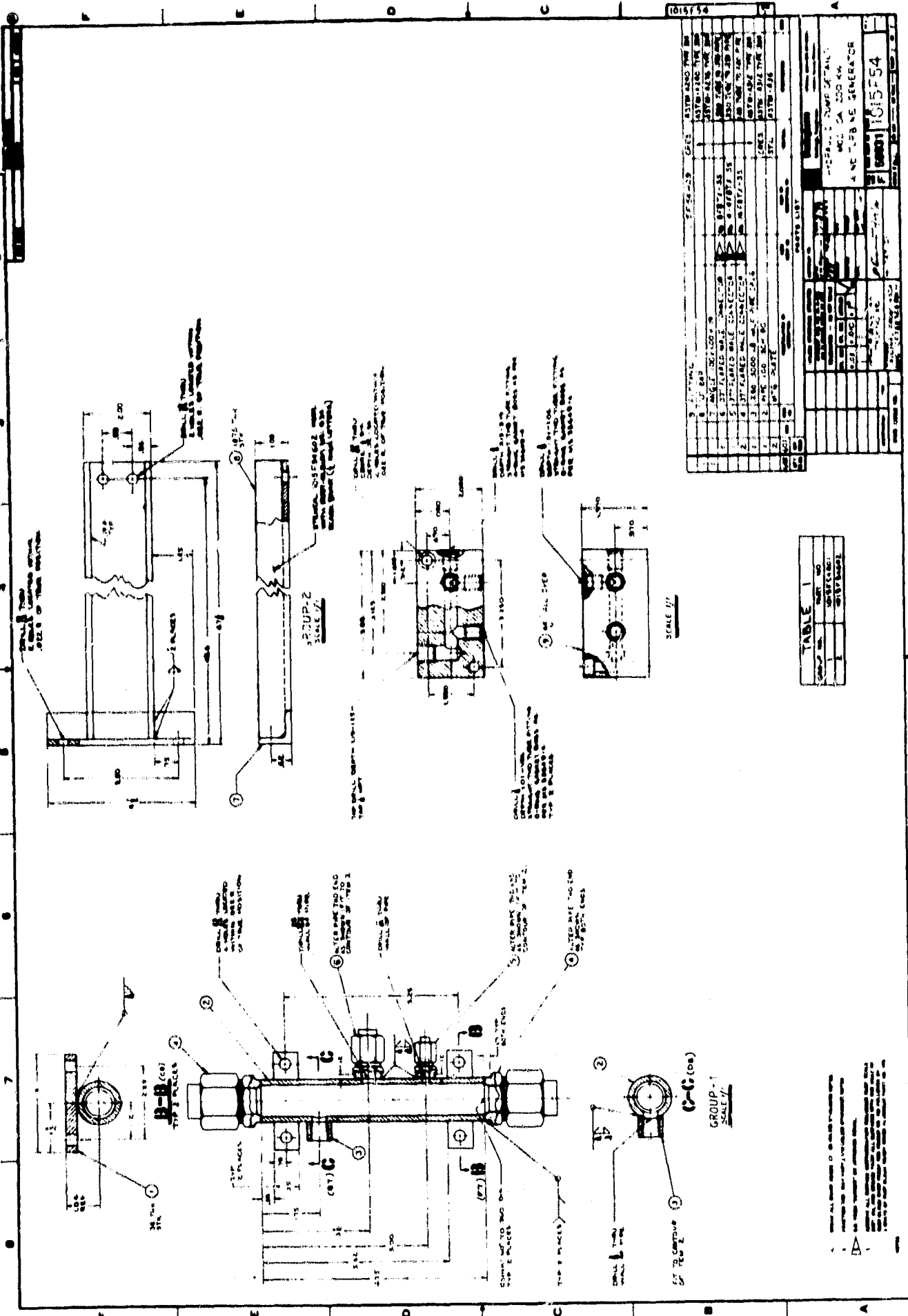
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 ALL FLOORS TO BE FINISHED TO MATCH THE ADJACENT FLOORS
 ALL CEILING TO BE FINISHED TO MATCH THE ADJACENT CEILING

GENERAL NOTES		REVISIONS	
1.	SEE PLAN FOR ALL DIMENSIONS	NO.	DATE
2.	ALL WALLS TO BE FINISHED TO MATCH THE ADJACENT WALLS	1.	10/15/53
3.	ALL FLOORS TO BE FINISHED TO MATCH THE ADJACENT FLOORS		
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5.	ALL ROOMS TO BE FINISHED TO MATCH THE ADJACENT ROOMS		
6.	ALL DOORS TO BE FINISHED TO MATCH THE ADJACENT DOORS		
7.	ALL WINDOWS TO BE FINISHED TO MATCH THE ADJACENT WINDOWS		
8.	ALL LIGHT FIXTURES TO BE FINISHED TO MATCH THE ADJACENT LIGHT FIXTURES		
9.	ALL ELECTRICAL WORK TO BE FINISHED TO MATCH THE ADJACENT ELECTRICAL WORK		
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12.	ALL PAINT WORK TO BE FINISHED TO MATCH THE ADJACENT PAINT WORK		
13.	ALL CARPET WORK TO BE FINISHED TO MATCH THE ADJACENT CARPET WORK		
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27' 0" X 27' 0" PLAN



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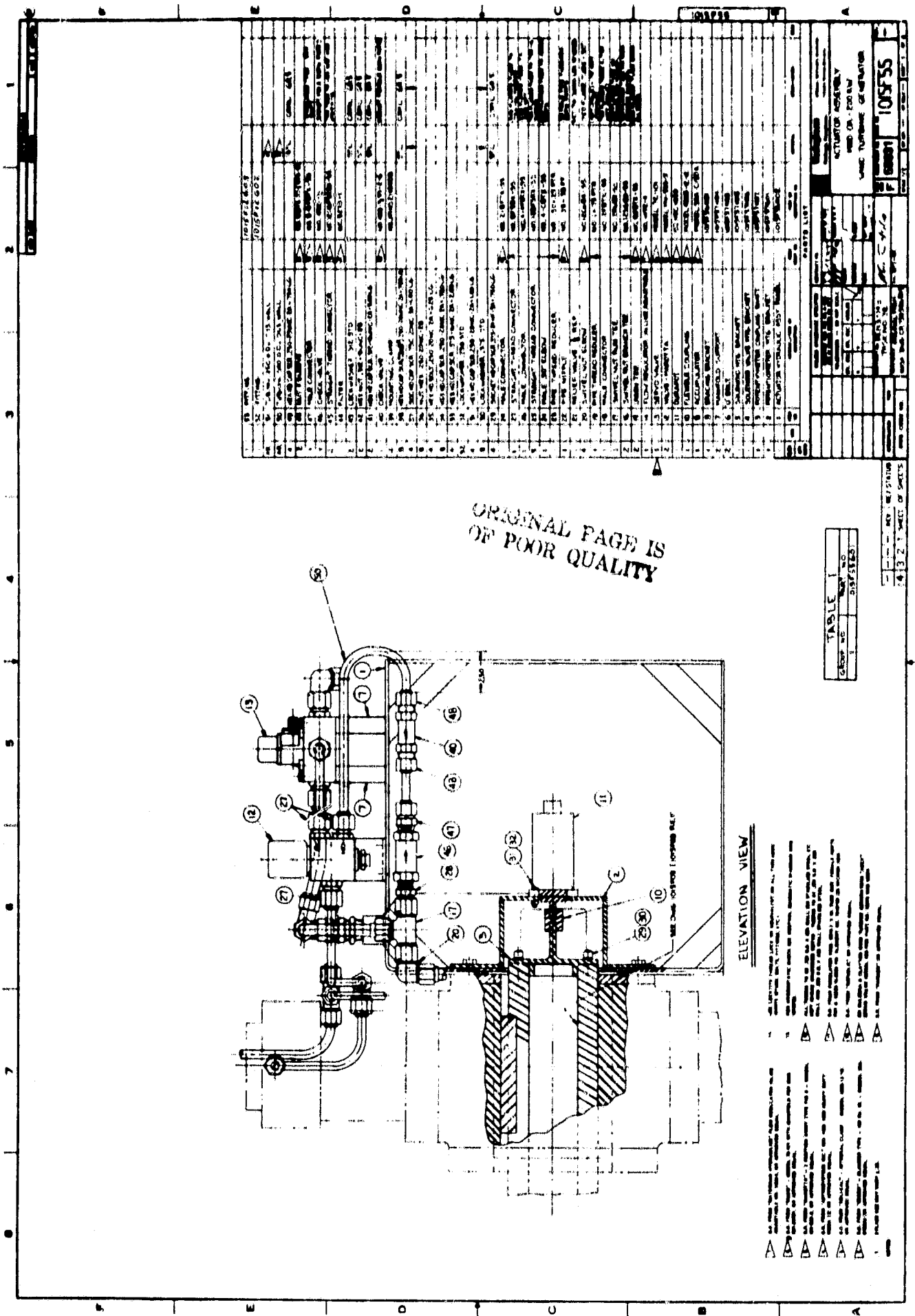


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1	ROTOR COOLING FAN	1015754-7	1	STATOR COOLING FAN	1015754-8
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1	ROTOR BRUSH SPRING	1015754-15	1	STATOR BRUSH SPRING	1015754-16
1	ROTOR BRUSH CONTACT	1015754-17	1	STATOR BRUSH CONTACT	1015754-18
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GROUP-1
 SCALE 1/2"



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ELEVATION VIEW

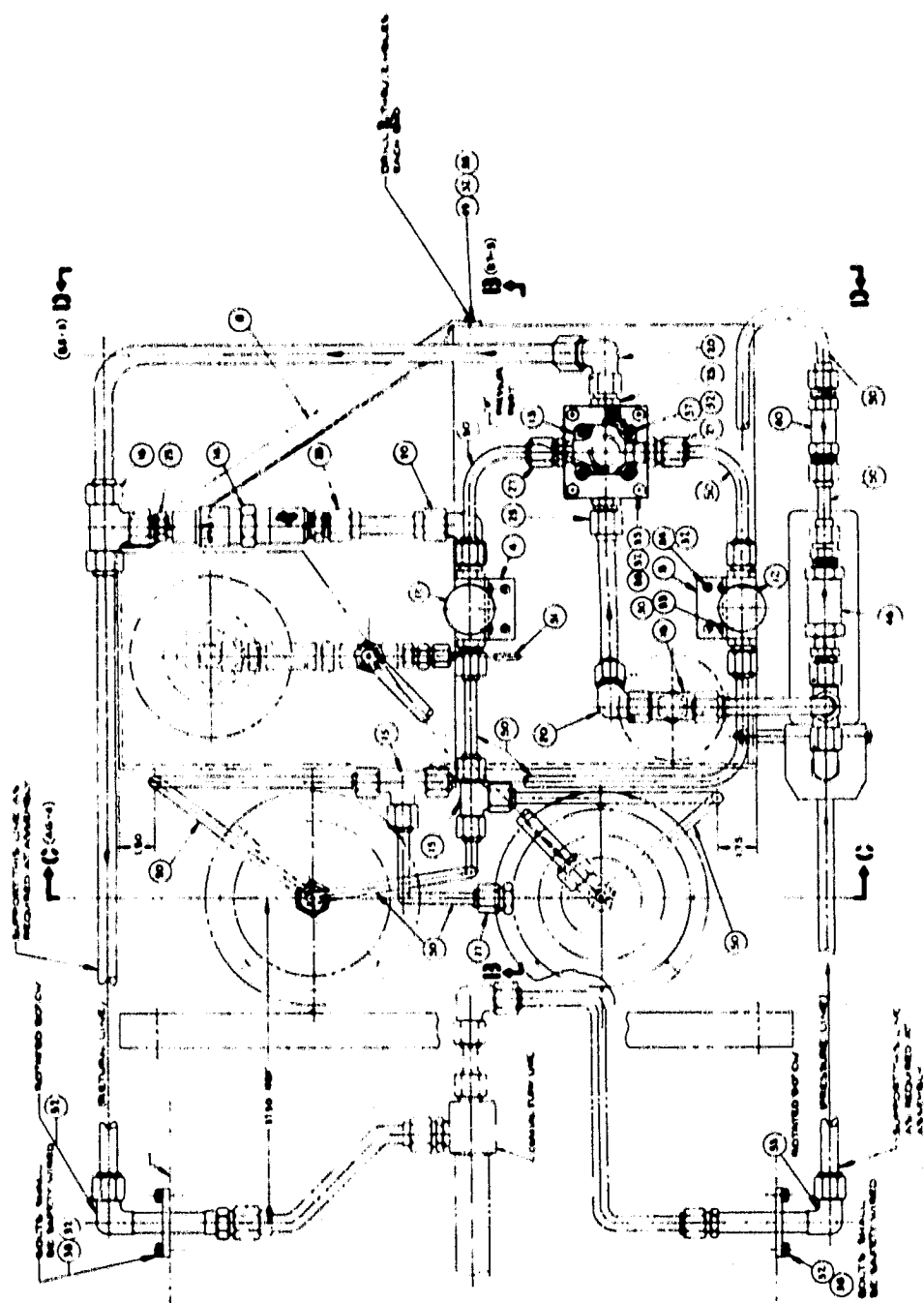
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- ▲ DIMENSIONS IN BRACKETS ARE FOR REFERENCE ONLY
- ▲ DIMENSIONS IN DASHED LINES ARE FOR REFERENCE ONLY
- ▲ DIMENSIONS IN SOLID LINES ARE FOR REFERENCE ONLY
- ▲ DIMENSIONS IN DOTTED LINES ARE FOR REFERENCE ONLY
- ▲ DIMENSIONS IN Wavy LINES ARE FOR REFERENCE ONLY
- ▲ DIMENSIONS IN Zigzag LINES ARE FOR REFERENCE ONLY
- ▲ DIMENSIONS IN Stippled LINES ARE FOR REFERENCE ONLY
- ▲ DIMENSIONS IN Cross-hatched LINES ARE FOR REFERENCE ONLY
- ▲ DIMENSIONS IN Diagonal-hatched LINES ARE FOR REFERENCE ONLY
- ▲ DIMENSIONS IN Horizontal-hatched LINES ARE FOR REFERENCE ONLY
- ▲ DIMENSIONS IN Vertical-hatched LINES ARE FOR REFERENCE ONLY
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- ▲ DIMENSIONS IN 135-degree-hatched LINES ARE FOR REFERENCE ONLY
- ▲ DIMENSIONS IN Random-hatched LINES ARE FOR REFERENCE ONLY
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GROUP NO.	TABLE NO.	REV. NO.	DATE
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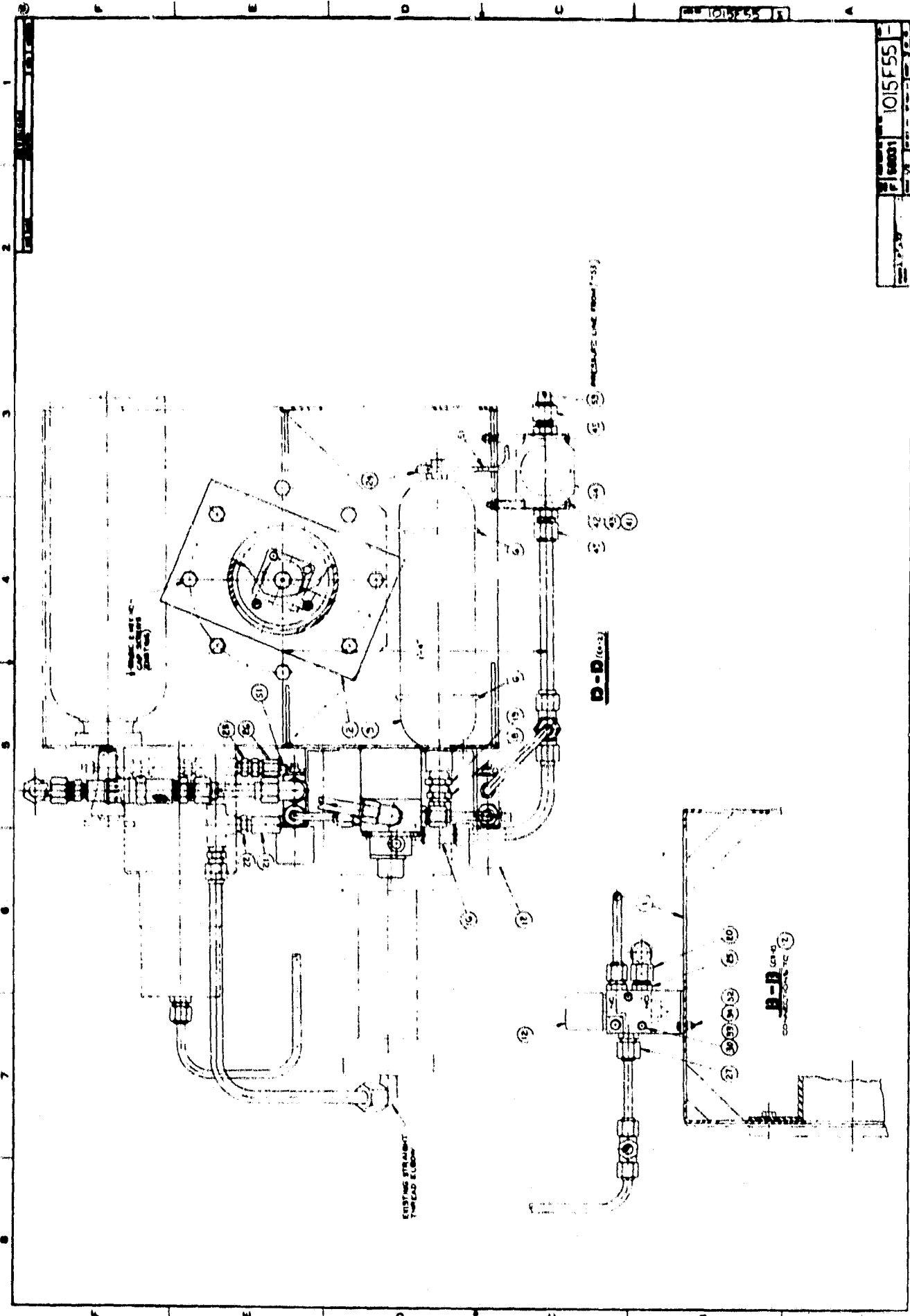
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REV. NO. 1
DATE 10/1/55

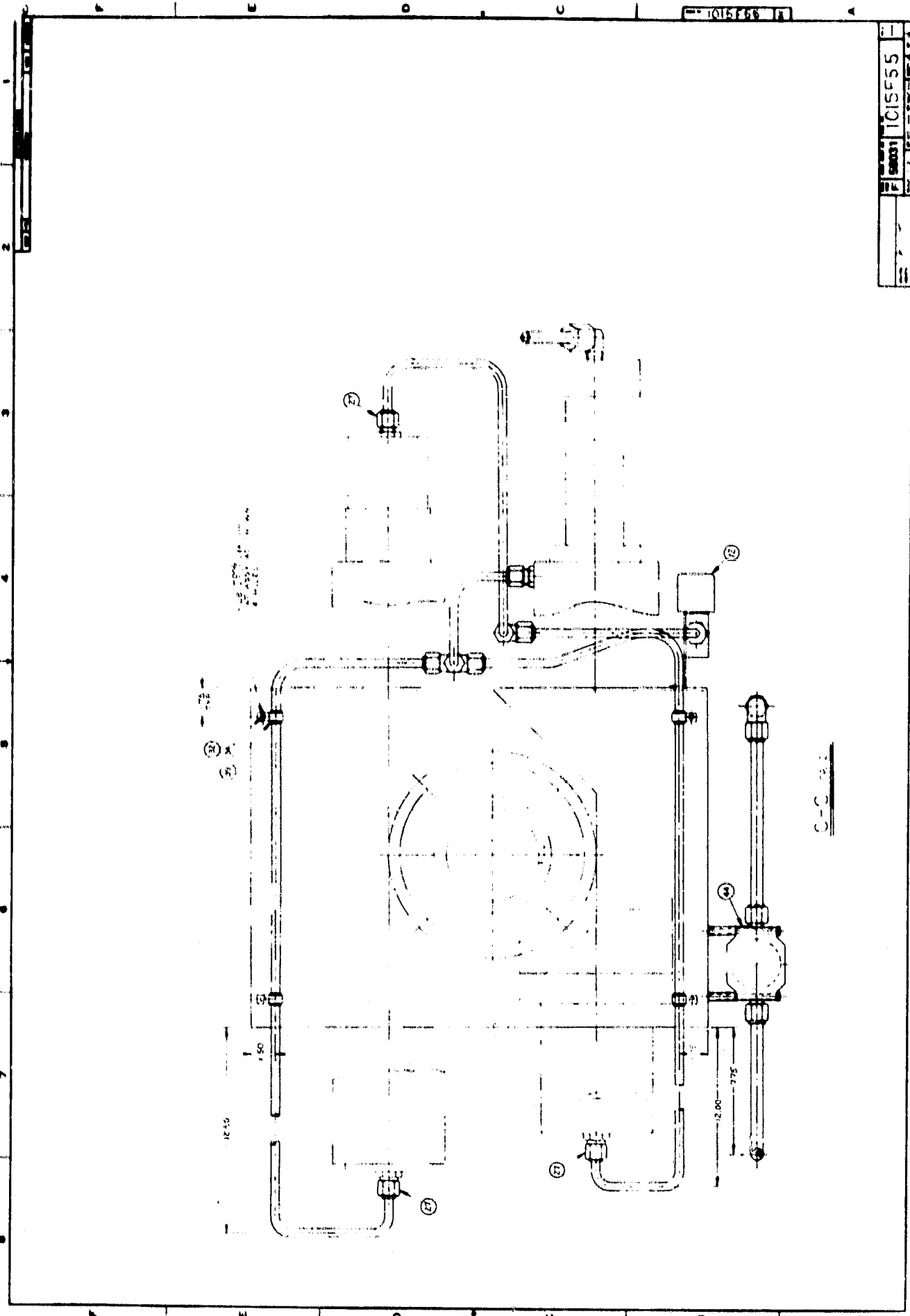


PLAN VIEW



1015-55

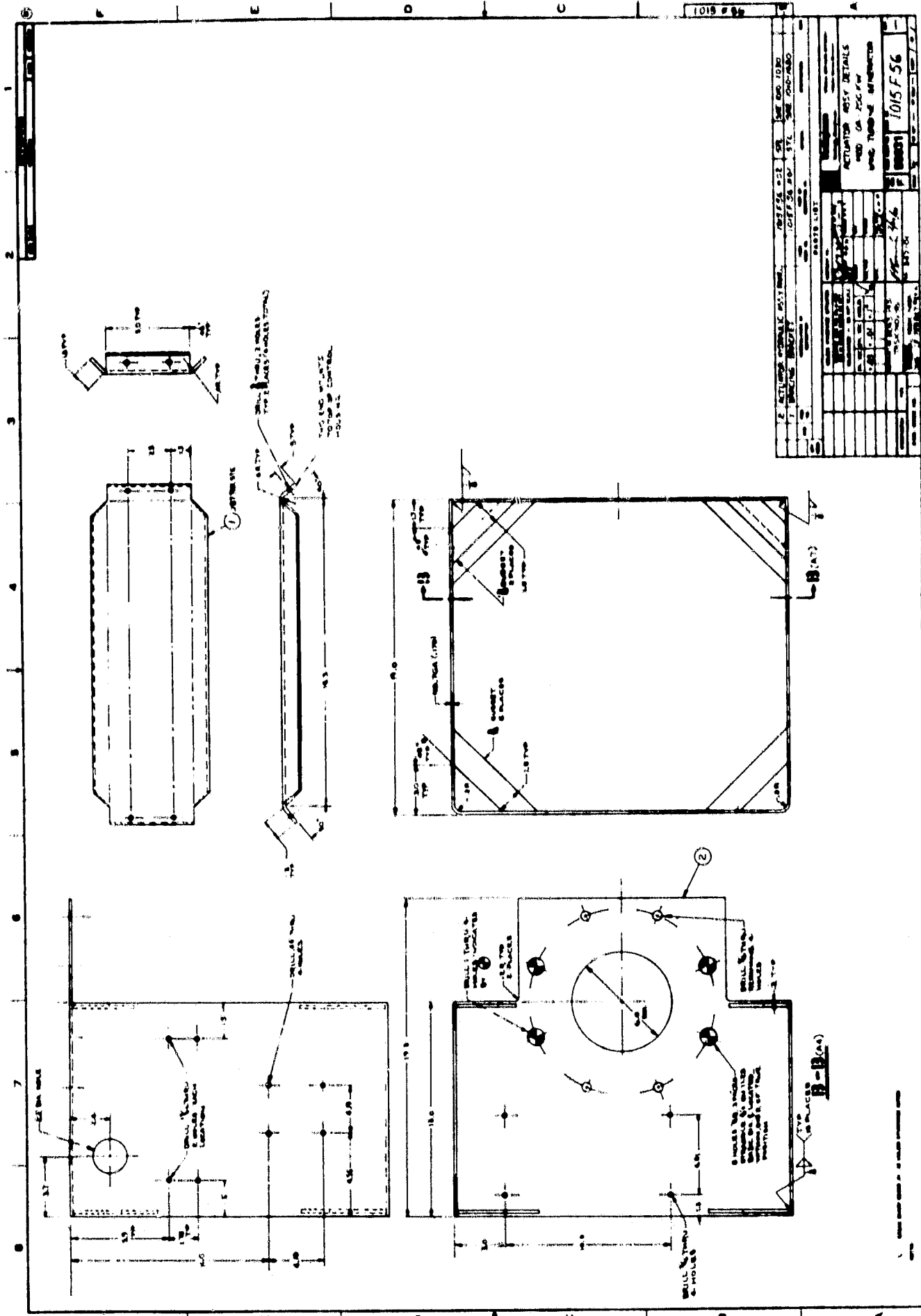
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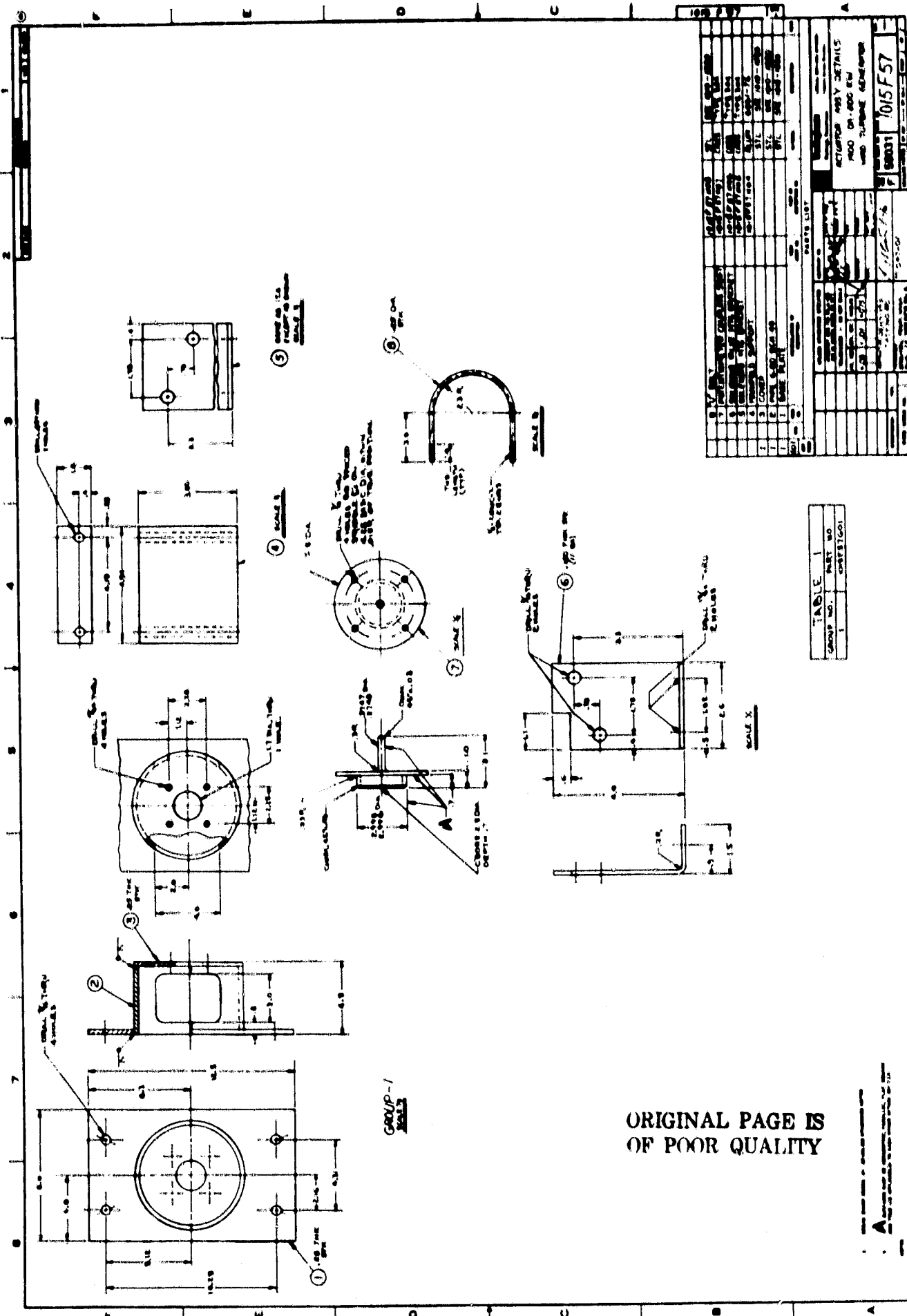


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1015 F 56

DATE	10/15/56	DESIGNED BY	J. J. GIBSON	CHECKED BY	J. J. GIBSON
APP'D BY	J. J. GIBSON	TITLE	ACTUATOR HOIST DETAILS AND GA. DRAWING UNDER TORQUE INDICATOR	DRAWN BY	J. J. GIBSON
PROJECT NO.	1015 F 56	SCALE	AS SHOWN	SHEET NO. 1 OF 1	
REV.		DATE			
1		08/22/56			
2		10/15/56			





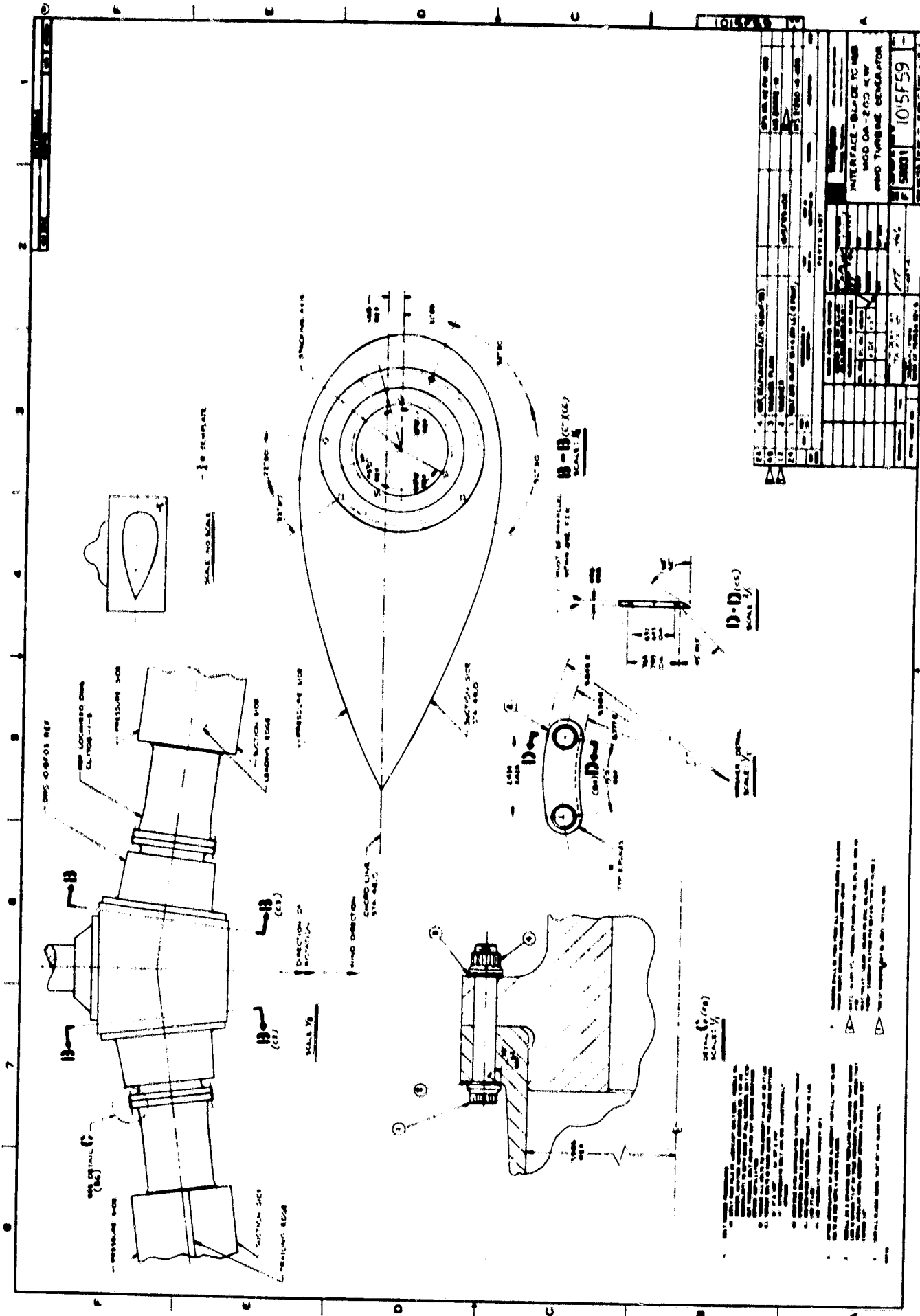
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2	SIDE VIEW
3	TOP VIEW
4	DETAIL OF COMPONENT
5	DETAIL OF BRACKET
6	DETAIL OF CIRCULAR PART
7	DETAIL OF SHAFT ASSEMBLY
8	DETAIL OF BRACKET

TABLE 1		
GROUP NO.	PART NO.	DESCRIPTION
1	1	FRONT VIEW
1	2	SIDE VIEW
1	3	TOP VIEW
1	4	DETAIL OF COMPONENT
1	5	DETAIL OF BRACKET
1	6	DETAIL OF CIRCULAR PART
1	7	DETAIL OF SHAFT ASSEMBLY
1	8	DETAIL OF BRACKET

REVISIONS	
NO.	DESCRIPTION
1	ISSUED FOR FABRICATION

GENERAL INFORMATION	
PROJECT	ACTUATOR ASSEMBLY DETAILS
DRAWING NO.	1015F57
DATE	10/15/57
DESIGNED BY	
CHECKED BY	
APPROVED BY	

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1	DESIGNER	DATE	10/5/59
2	CHECKED	DATE	
3	APPROVED	DATE	
4	PROJECT ENGINEER	DATE	
5	PROJECT MANAGER	DATE	
6	PROJECT SUPERVISOR	DATE	
7	PROJECT DIRECTOR	DATE	
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100	PROJECT ENGINEER	DATE	

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4. THIS DRAWING IS THE PROPERTY OF THE UNITED STATES GOVERNMENT AND IS LOANED TO YOU. IT AND ITS CONTENTS ARE NOT TO BE DISTRIBUTED OUTSIDE YOUR AGENCY.

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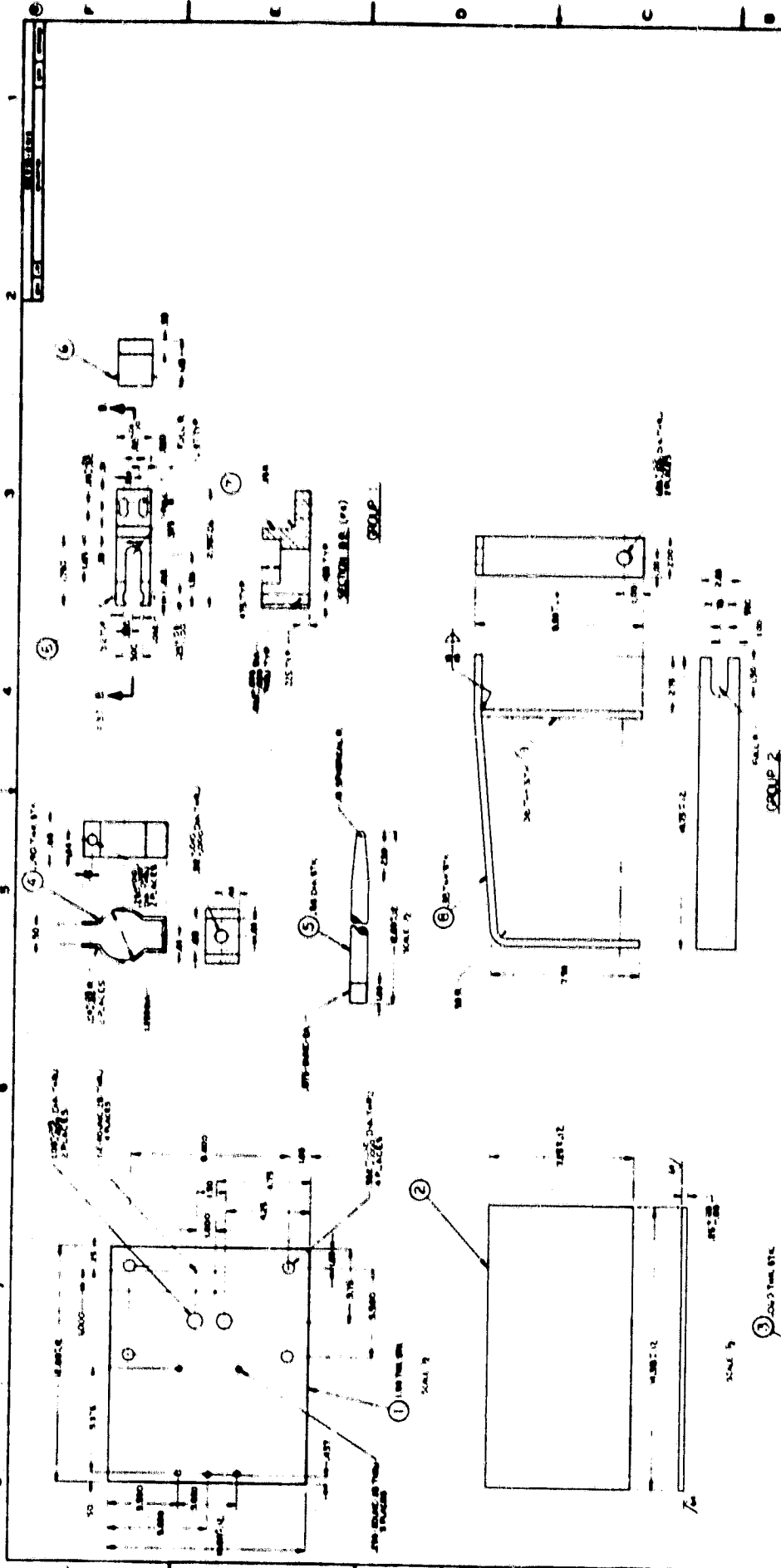
6. THIS DRAWING IS THE PROPERTY OF THE UNITED STATES GOVERNMENT AND IS LOANED TO YOU. IT AND ITS CONTENTS ARE NOT TO BE DISTRIBUTED OUTSIDE YOUR AGENCY.

7. THIS DRAWING IS THE PROPERTY OF THE UNITED STATES GOVERNMENT AND IS LOANED TO YOU. IT AND ITS CONTENTS ARE NOT TO BE DISTRIBUTED OUTSIDE YOUR AGENCY.

8. THIS DRAWING IS THE PROPERTY OF THE UNITED STATES GOVERNMENT AND IS LOANED TO YOU. IT AND ITS CONTENTS ARE NOT TO BE DISTRIBUTED OUTSIDE YOUR AGENCY.

9. THIS DRAWING IS THE PROPERTY OF THE UNITED STATES GOVERNMENT AND IS LOANED TO YOU. IT AND ITS CONTENTS ARE NOT TO BE DISTRIBUTED OUTSIDE YOUR AGENCY.

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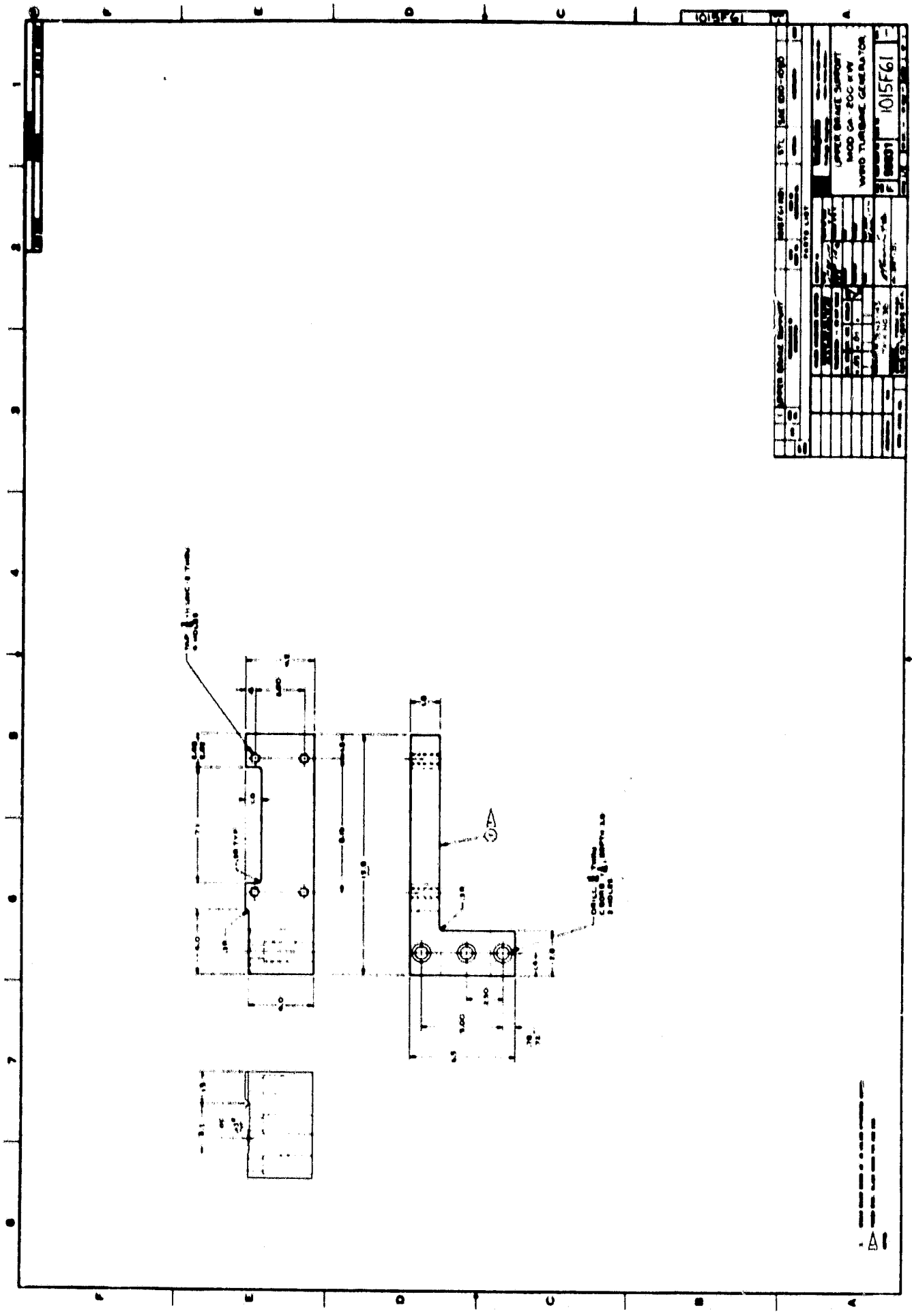


DETAILS	
NO.	DESCRIPTION
1	CONTROL ROOM
2	CONSOLE
3	WORKSTATION
4	SEATING
5	STORAGE
6	ENTRY
7	EXIT
8	STAIRS
9	ELEVATOR
10	RESTROOM
11	RECEPTION
12	OFFICE
13	CONFERENCE
14	TRAINING
15	LABORATORY
16	WORKSHOP
17	WAREHOUSE
18	OFFICE
19	RECEPTION
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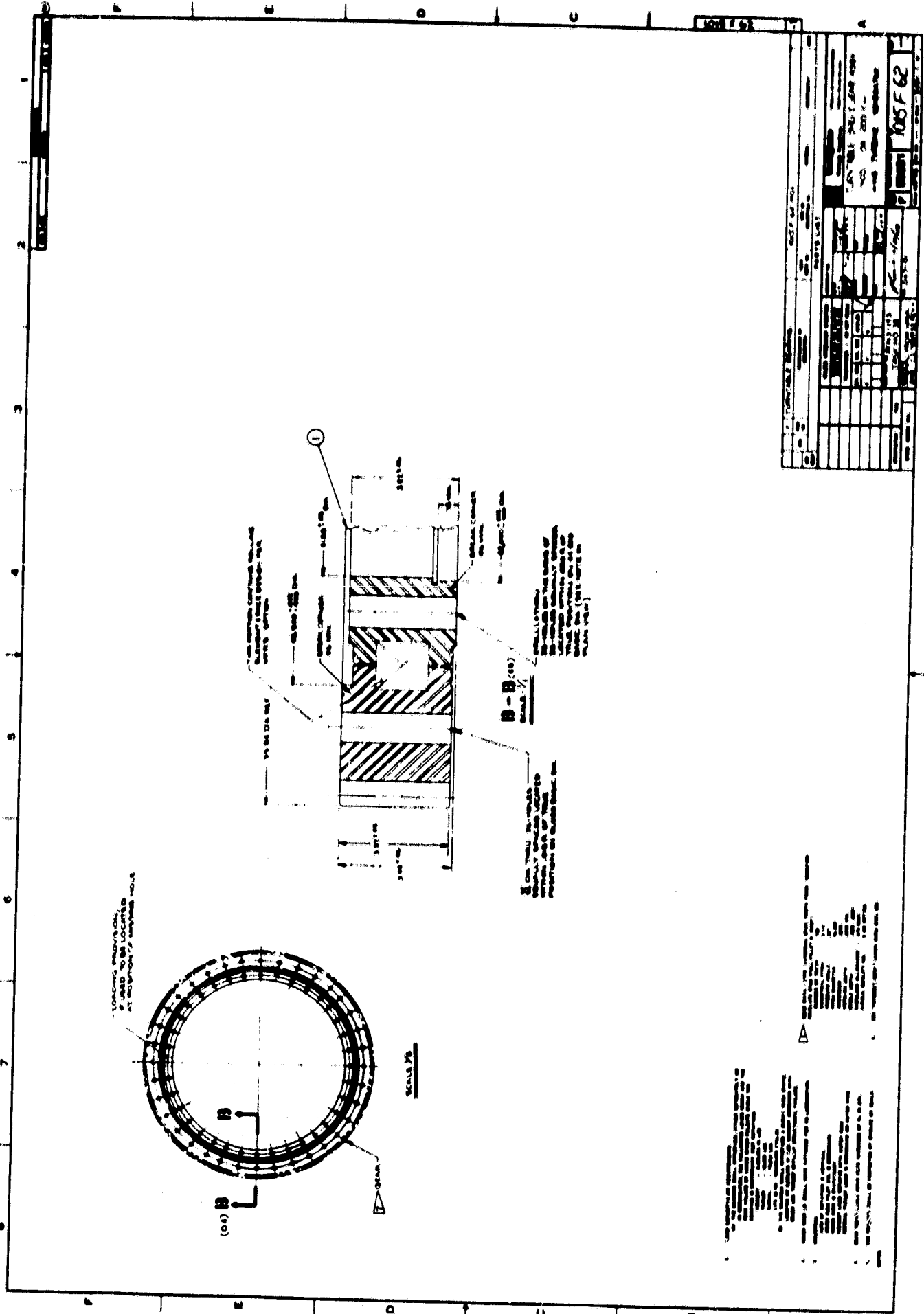
TABLE 1	
NO.	DESCRIPTION
1	CONTROL ROOM
2	CONSOLE
3	WORKSTATION
4	SEATING
5	STORAGE
6	ENTRY
7	EXIT
8	STAIRS
9	ELEVATOR
10	RESTROOM
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SECTION A-A

1015F60

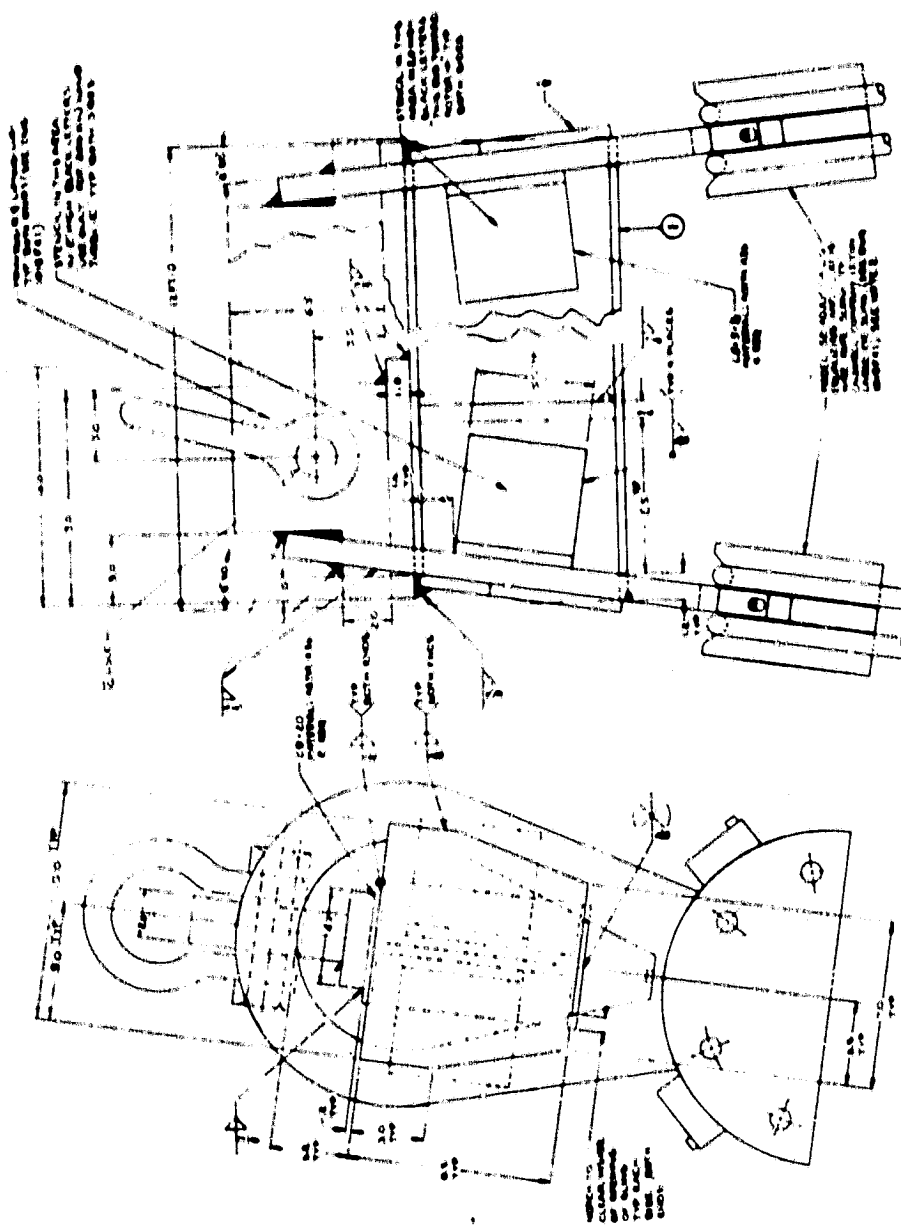


1015F61		REV. DATE	BY	CHKD
UPPER BRACE SUPPORT		NO.	DATE	BY
1000 GA - 200 IN W		NO.	DATE	BY
WIND TURBINE GENERATOR		NO.	DATE	BY
1015F61		NO.	DATE	BY

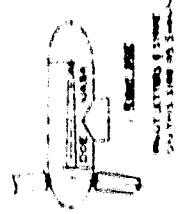
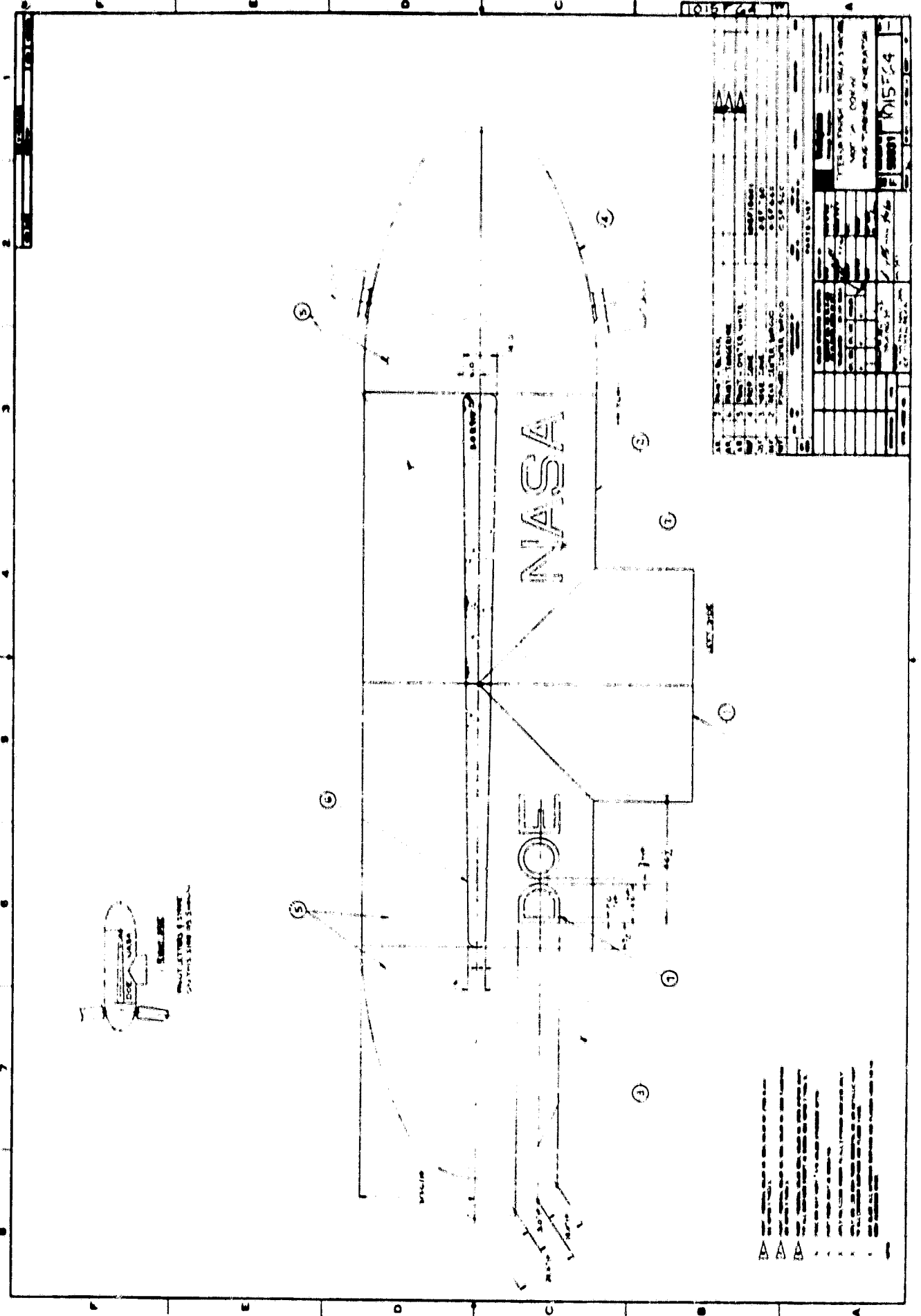


PROJECT NO.		105 F 62	
DATE		APR 1962	
DRAWN BY		[Name]	
CHECKED BY		[Name]	
APPROVED BY		[Name]	
TITLE		[Title]	

Drawing Information		Drawing Number	
Scale	1/8" = 1'-0"	Revision	001
Author	J. G. ...	Checked	J. G. ...
Date	10/15/53	Project No. 105 F 63	
Description		...	

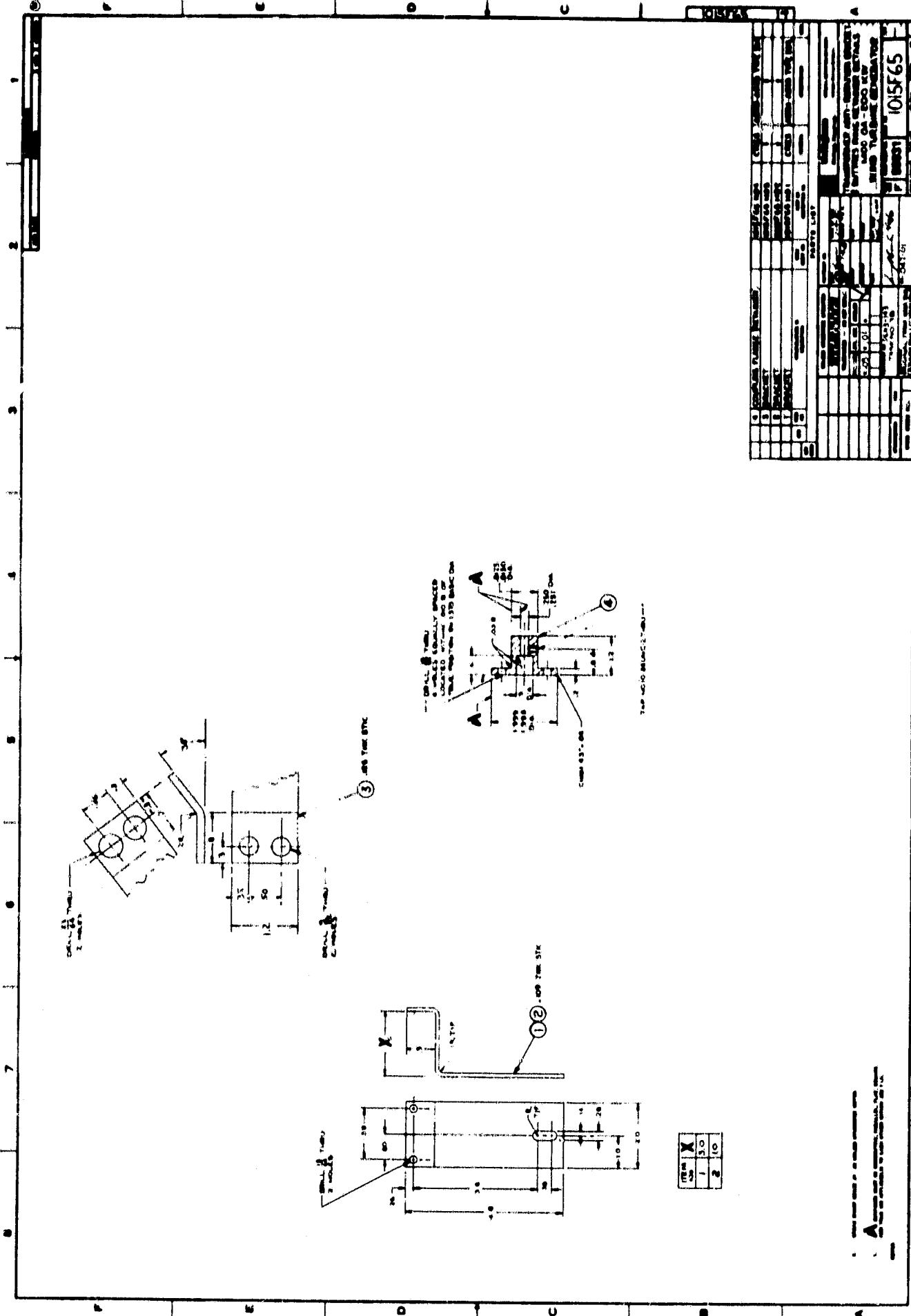


NOTES:
 1. All dimensions are in inches unless otherwise specified.
 2. All surfaces are to be finished to a surface finish of 63 microinches RA, unless otherwise specified.
 3. All chamfers are to be .015 inches wide, unless otherwise specified.
 4. All holes are to be drilled and reamed to the specified diameter and depth.
 5. All threads are to be standard UNF-2B, unless otherwise specified.
 6. All fasteners are to be stainless steel, unless otherwise specified.
 7. All tolerances are in inches, unless otherwise specified.
 8. All dimensions are to be taken from the finished part, unless otherwise specified.
 9. All drawings are to be made to the best of your ability, and all errors are to be corrected immediately.
 10. All drawings are to be checked and approved by the design engineer, before any manufacturing begins.



TITLE: DOE/NASA PROJECT: DOE/NASA DRAWING NO.: 1015-22 DATE: 10/15/84	
DESIGNER: DOE/NASA CHECKED: DOE/NASA APPROVED: DOE/NASA	DRAWN BY: DOE/NASA SCALE: AS SHOWN SHEET NO.: 1015-22
REVISIONS:	REVISIONS:
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3. DOE/NASA	3. DOE/NASA
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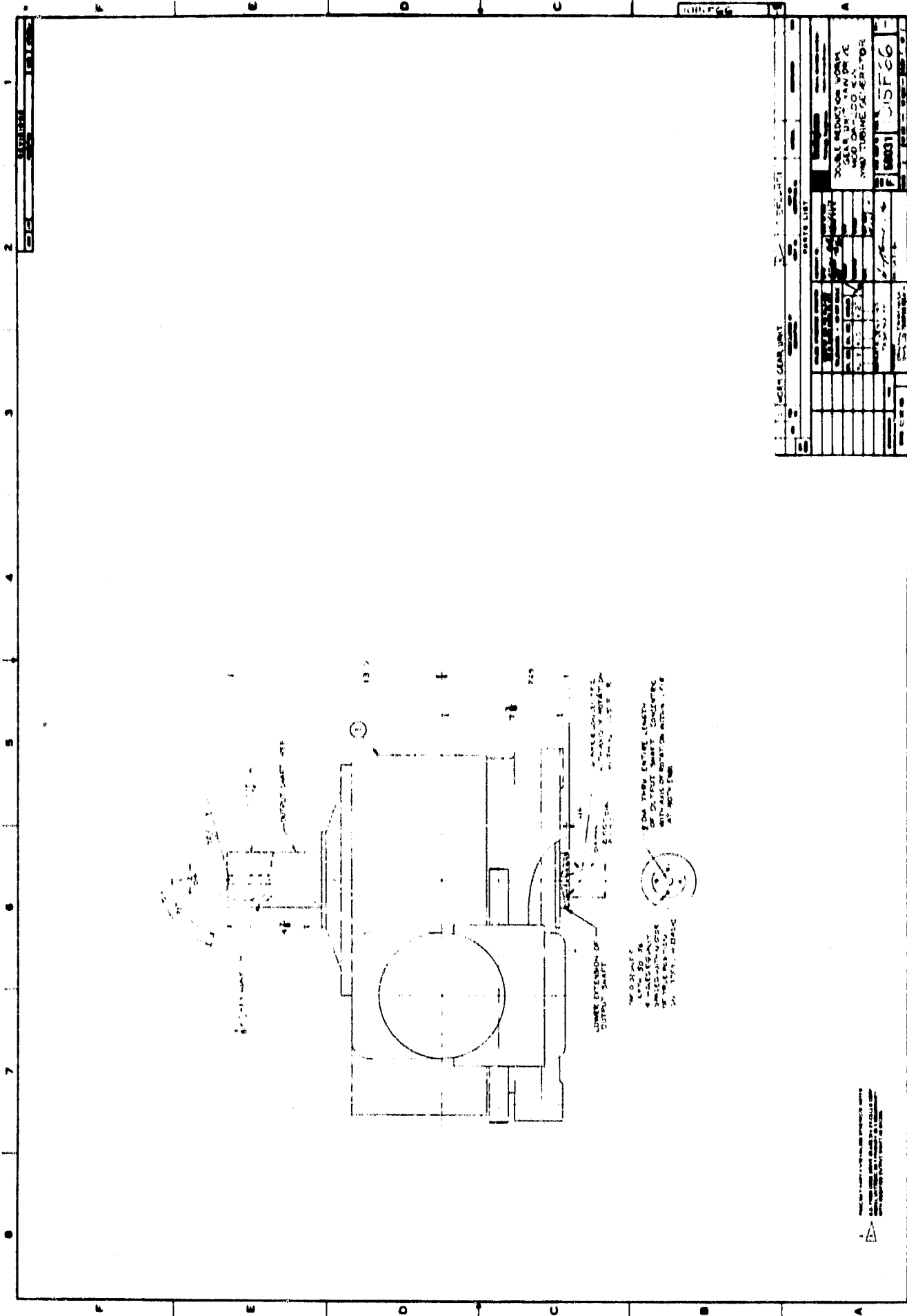
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- 2. **DOE/NASA**
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- 6. **DOE/NASA**
- 7. **DOE/NASA**
- 8. **DOE/NASA**



REV.	1	2
DATE	10/15/65	10/15/65
BY	1	2
CHKD.	1	2

1	FRONT VIEW	1	10/15/65	1	1
2	SIDE VIEW	1	10/15/65	1	1
3	DETAIL 1	1	10/15/65	1	1
4	DETAIL 2	1	10/15/65	1	1
5	DETAIL 3	1	10/15/65	1	1
6	ASSEMBLY INSTRUCTIONS	1	10/15/65	1	1
7	TITLE BLOCK	1	10/15/65	1	1
8	GRID	1	10/15/65	1	1

1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
 2. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.



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PARTS LIST	
1	SHAFT
2	SHAFT EXTENSION
3	SHAFT EXTENSION
4	SHAFT EXTENSION
5	SHAFT EXTENSION
6	SHAFT EXTENSION
7	SHAFT EXTENSION
8	SHAFT EXTENSION

DOUBLE REDUCTION WORK
GEAR UNIT FOR THE
NEW TUBINE GENERATOR

10001 015F66

SHAFT EXTENSION OF OUTPUT SHAFT IS TO BE PROVIDED BY THE USER. THE EXTENSION OF THE SHAFT IS TO BE PROVIDED BY THE USER. THE EXTENSION OF THE SHAFT IS TO BE PROVIDED BY THE USER.

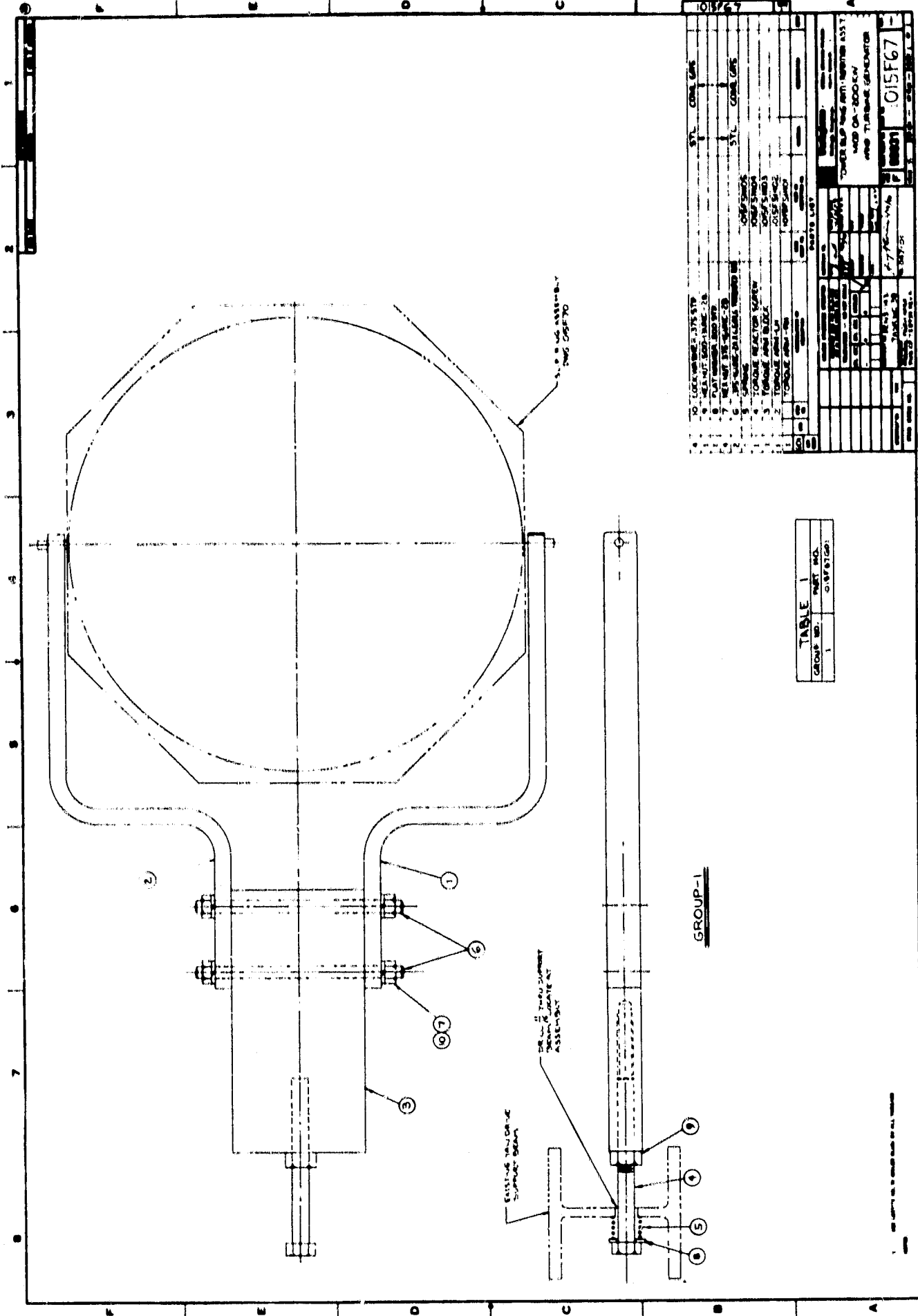
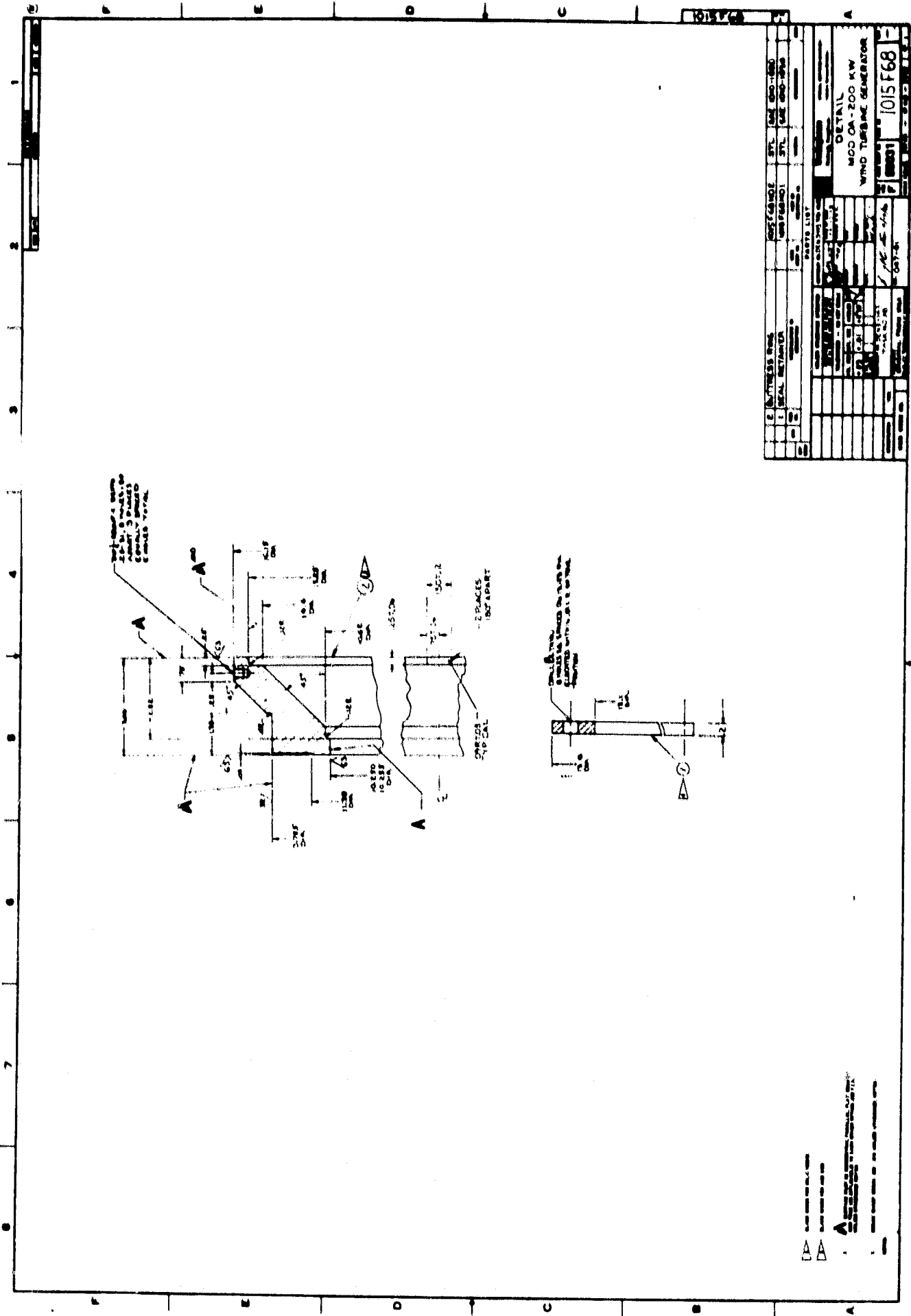


TABLE 1	
GROUP NO.	PART NO.
1	015F67

PARTS LIST				
NO.	DESCRIPTION	QTY.	UNIT	REF. DES.
10	LOCK WRENCH 3/16" STP			
9	WASHER 500-1146-28			
8	PLAT BRASS 800-878			
7	WASHER 515-546-28			
6	WASHER 515-546-28			
5	WASHER 515-546-28			
4	WASHER 515-546-28			
3	WASHER 515-546-28			
2	WASHER 515-546-28			
1	WASHER 515-546-28			

015F67
 REACTOR VESSEL WITH SUPPORT ASSEMBLY
 AND TURBINE GENERATOR

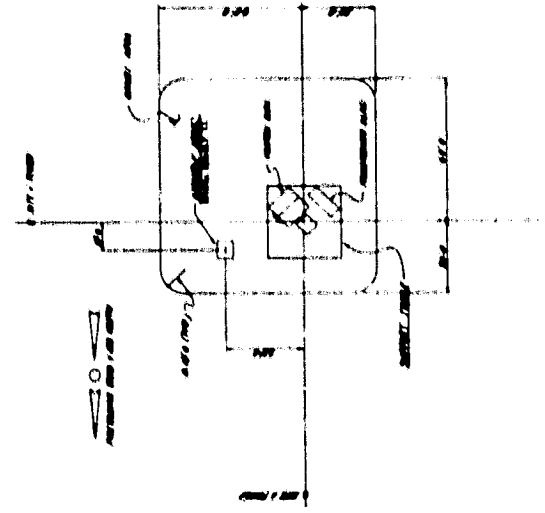
1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.



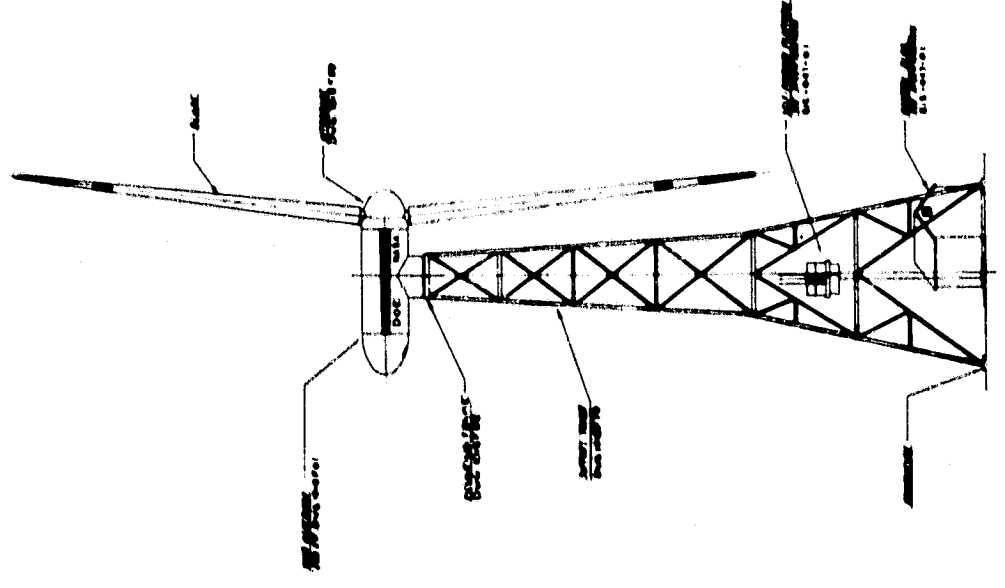
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1	1	1	1	1	1	1	1
DETAIL							
MCD OA-200 KW							
WIND TURBINE GENERATOR							
1015 F68							

1. ALL DIMENSIONS ARE IN INCHES
 2. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED
 3. ALL DIMENSIONS ARE TO BE USED AS SHOWN UNLESS OTHERWISE SPECIFIED
 4. ALL DIMENSIONS ARE TO BE USED AS SHOWN UNLESS OTHERWISE SPECIFIED

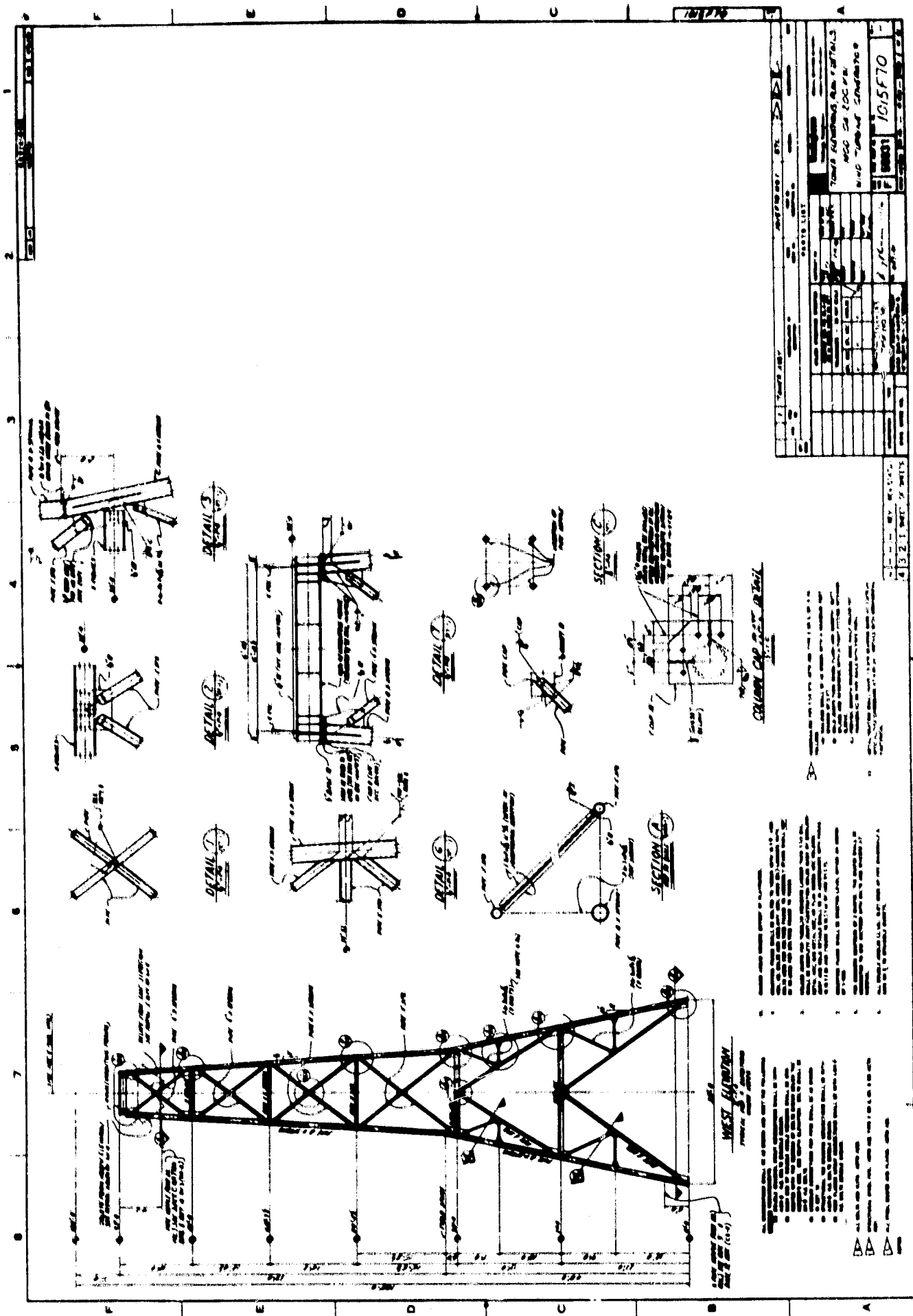
SITE PLAN (GENERAL) 105169	
MOD ON 200 kW WIND TURBINE GENERATOR	
DATE	10/15/79
BY	[Signature]
CHECKED BY	[Signature]
SCALE	AS SHOWN
PROJECT NO.	
DRAWING NO.	
DESIGNED BY	
ENGINEER	
DATE	
CHECKED BY	
DATE	



SITE PLAN
105169



ELEVATION
105169



DATE LIST	
NO.	DATE
1	10/15/70
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WEST ELEVATION

SECTION C

SECTION D

DETAIL A

DETAIL B

DETAIL C

DETAIL D

DETAIL E

DETAIL F

DETAIL G

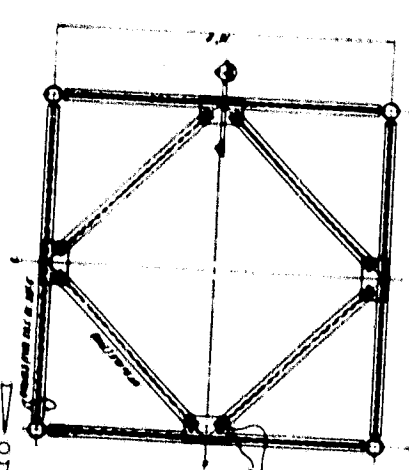
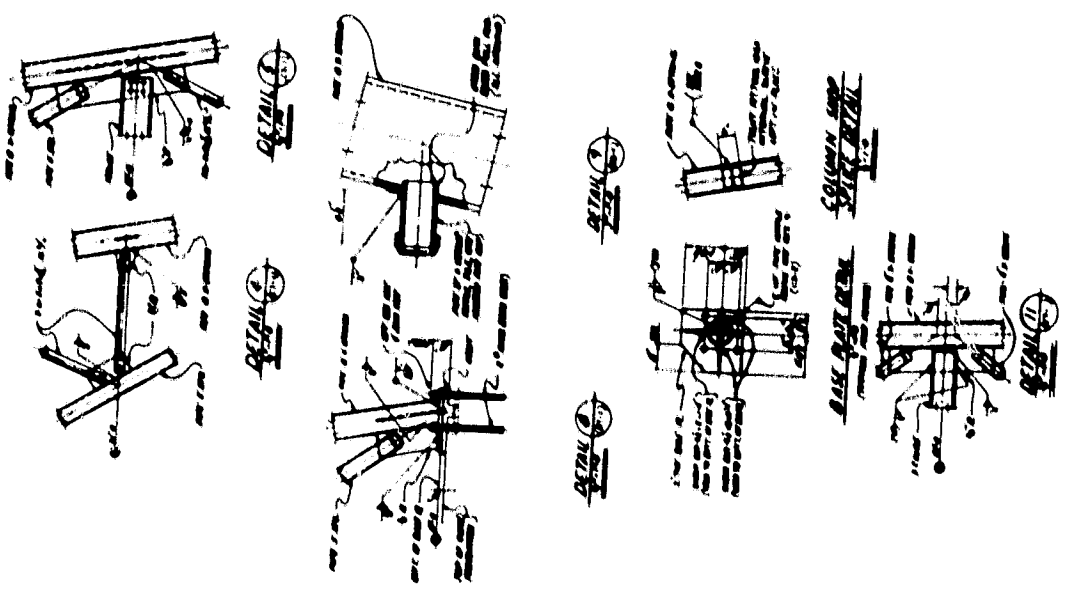
DETAIL H

COLUMN END DETAIL

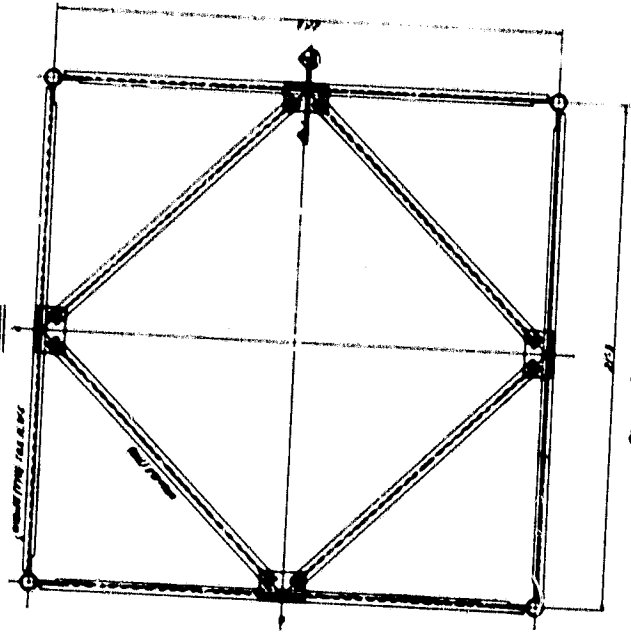
NOTES:

1. ALL DIMENSIONS ARE IN FEET AND INCHES.
2. ALL ANGLES ARE IN DEGREES.
3. ALL MATERIALS ARE TO BE AS SPECIFIED IN THE SPECIFICATIONS.
4. ALL CONNECTIONS ARE TO BE WELDED UNLESS OTHERWISE NOTED.
5. ALL WELDS ARE TO BE FULL PENETRATION BUTT JOINTS.
6. ALL BOLTS ARE TO BE A307 GRADE 2 UNLESS OTHERWISE NOTED.
7. ALL RIVETS ARE TO BE A307 GRADE 2 UNLESS OTHERWISE NOTED.
8. ALL PIPING IS TO BE SCH 40 UNLESS OTHERWISE NOTED.
9. ALL ELECTRICAL WIRING IS TO BE IN CONDUIT UNLESS OTHERWISE NOTED.
10. ALL PAINT IS TO BE AS SPECIFIED IN THE SPECIFICATIONS.

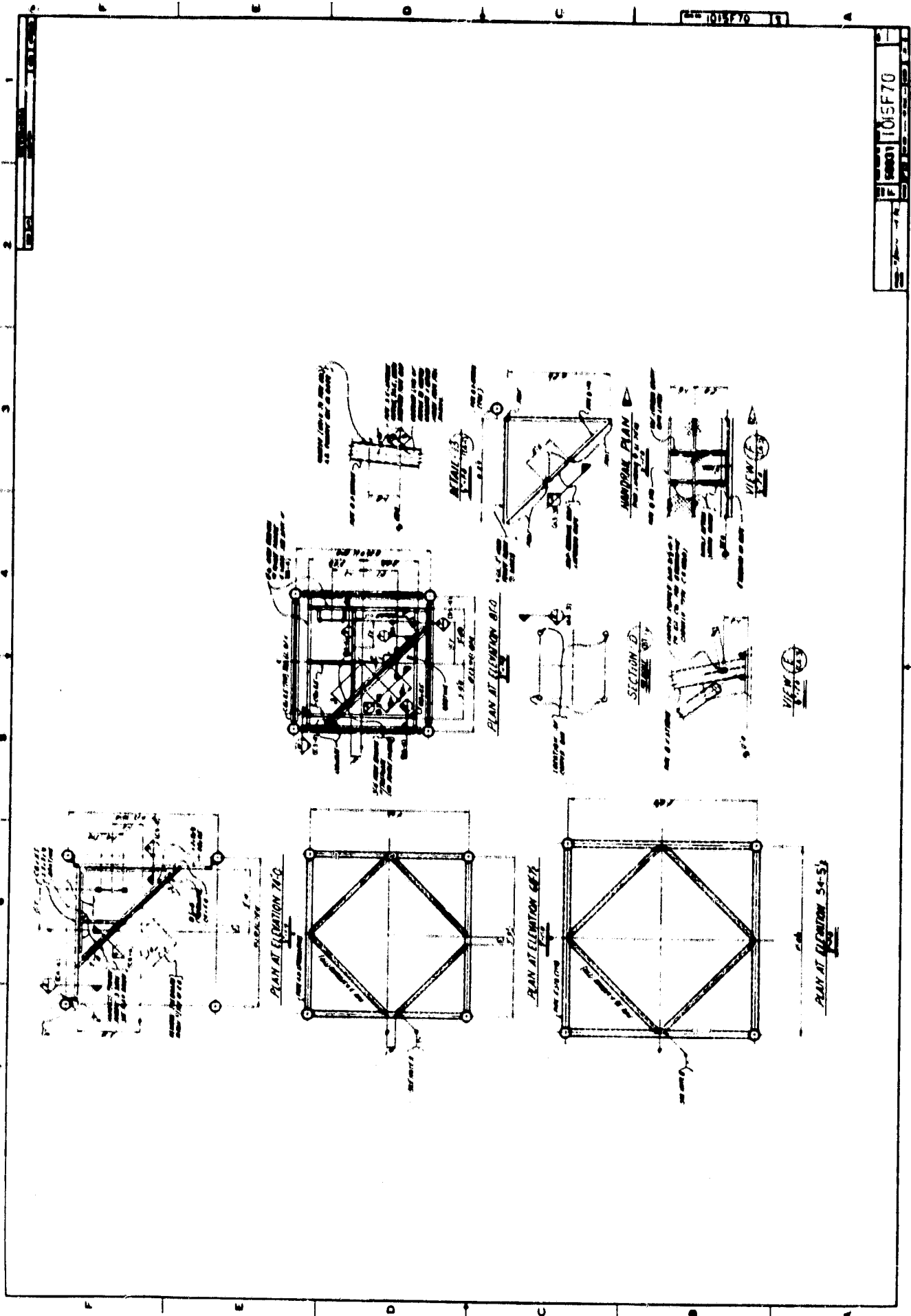
ORIGINAL PAGE IS
OF POOR QUALITY



PLAN AT SECTION 2-2



PLAN AT SECTION 2-2

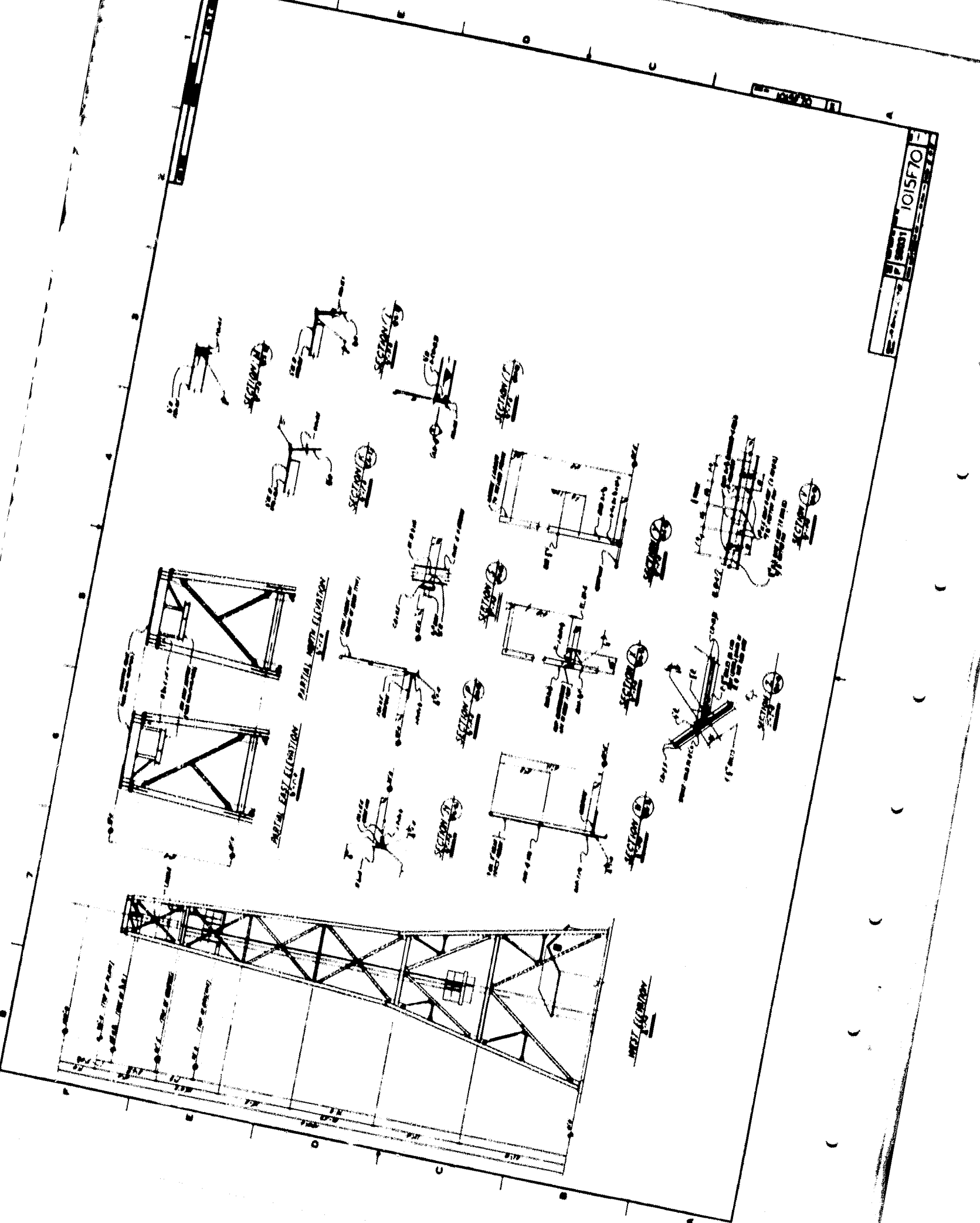


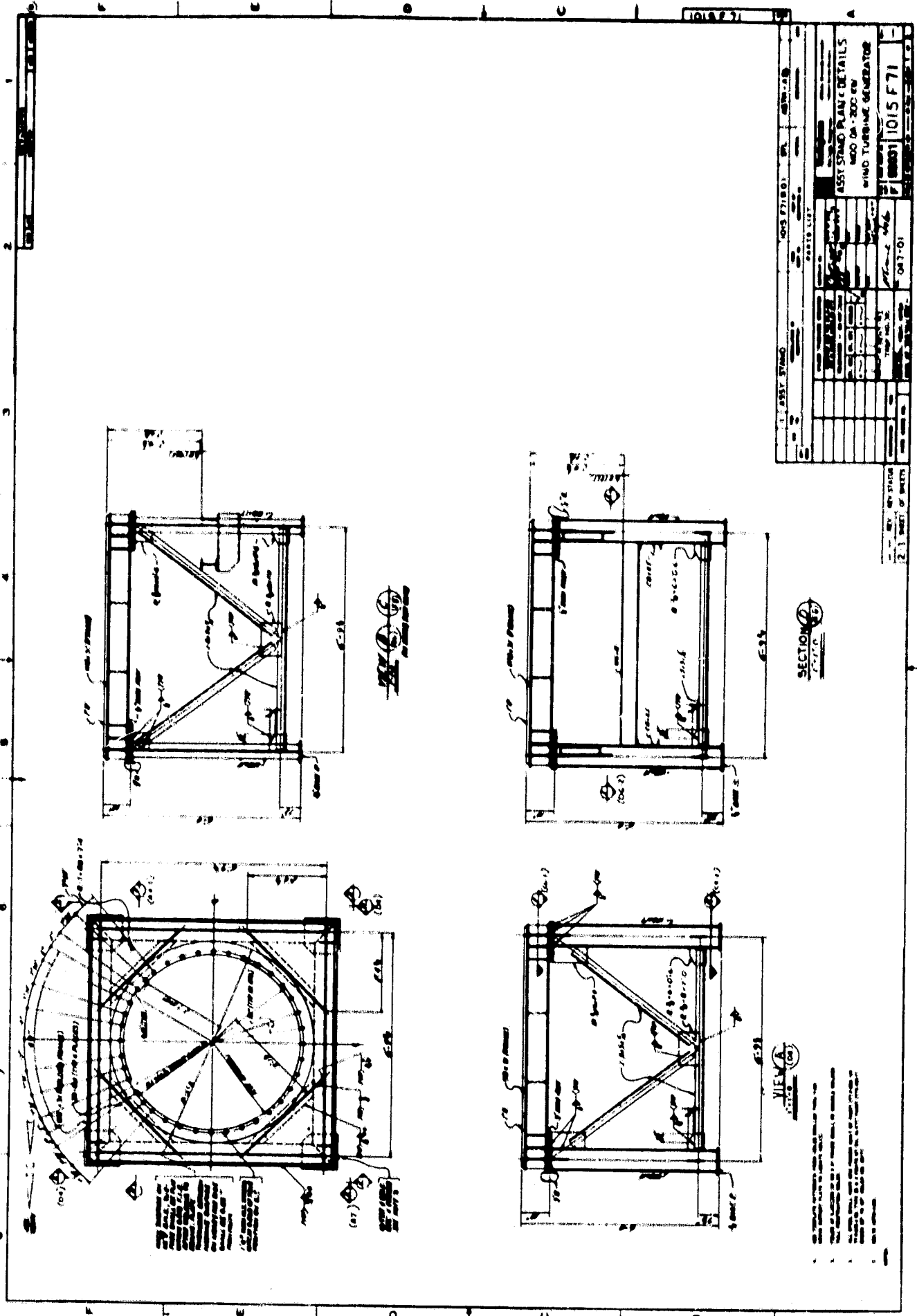
1015F70

1015F70

DETAIL B
 1/2" = 1'-0"
 DETAIL C
 1/2" = 1'-0"
 HORIZONTAL PLAN
 SECTION D-D
 VIEW E
 VIEW F

PLAN AT ELEVATION 74'-0"
 PLAN AT ELEVATION 66'-0"
 PLAN AT ELEVATION 61'-0"
 PLAN AT ELEVATION 54'-5"

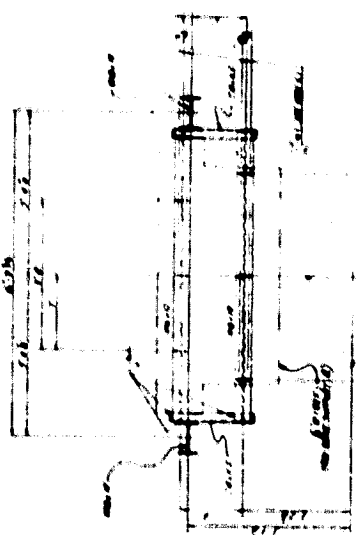




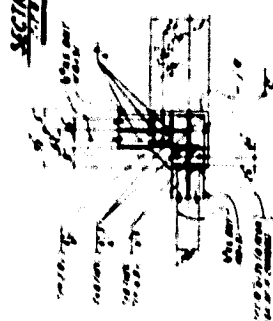
1. ASST. STND.		005 271801	DL	08-11-01
2. REV.		BY	DATE	
3. SHEET		OF	SHEETS	
ASST STND PLANT DETAILS				
WIND TURBINE GENERATOR				
PROJECT NO.		1015 F71		
DATE		08-11-01		

1015 F 71

9000 ICIS F 71



SECTION (1)

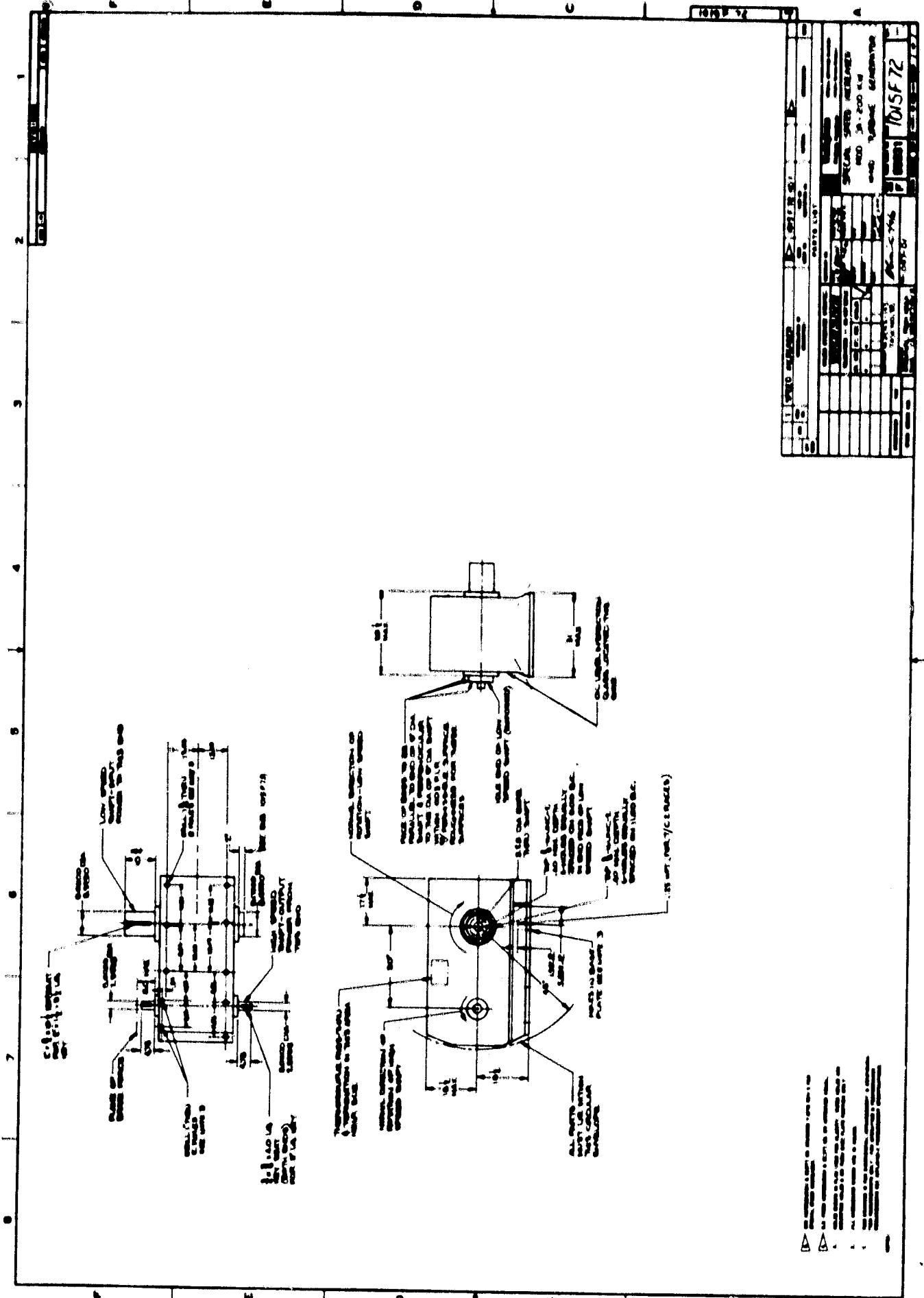


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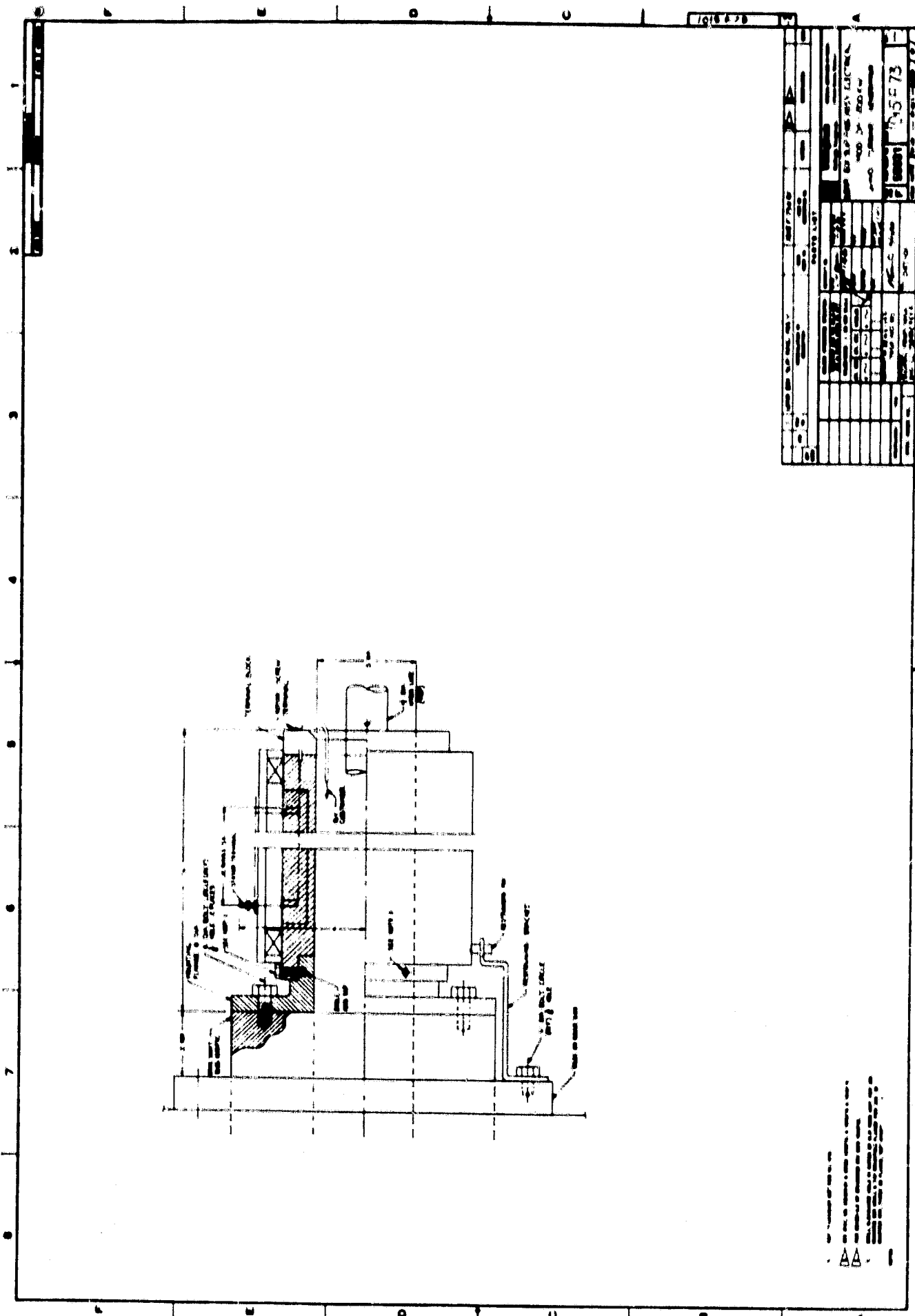
SECTION (3)



SWIM DETAIL

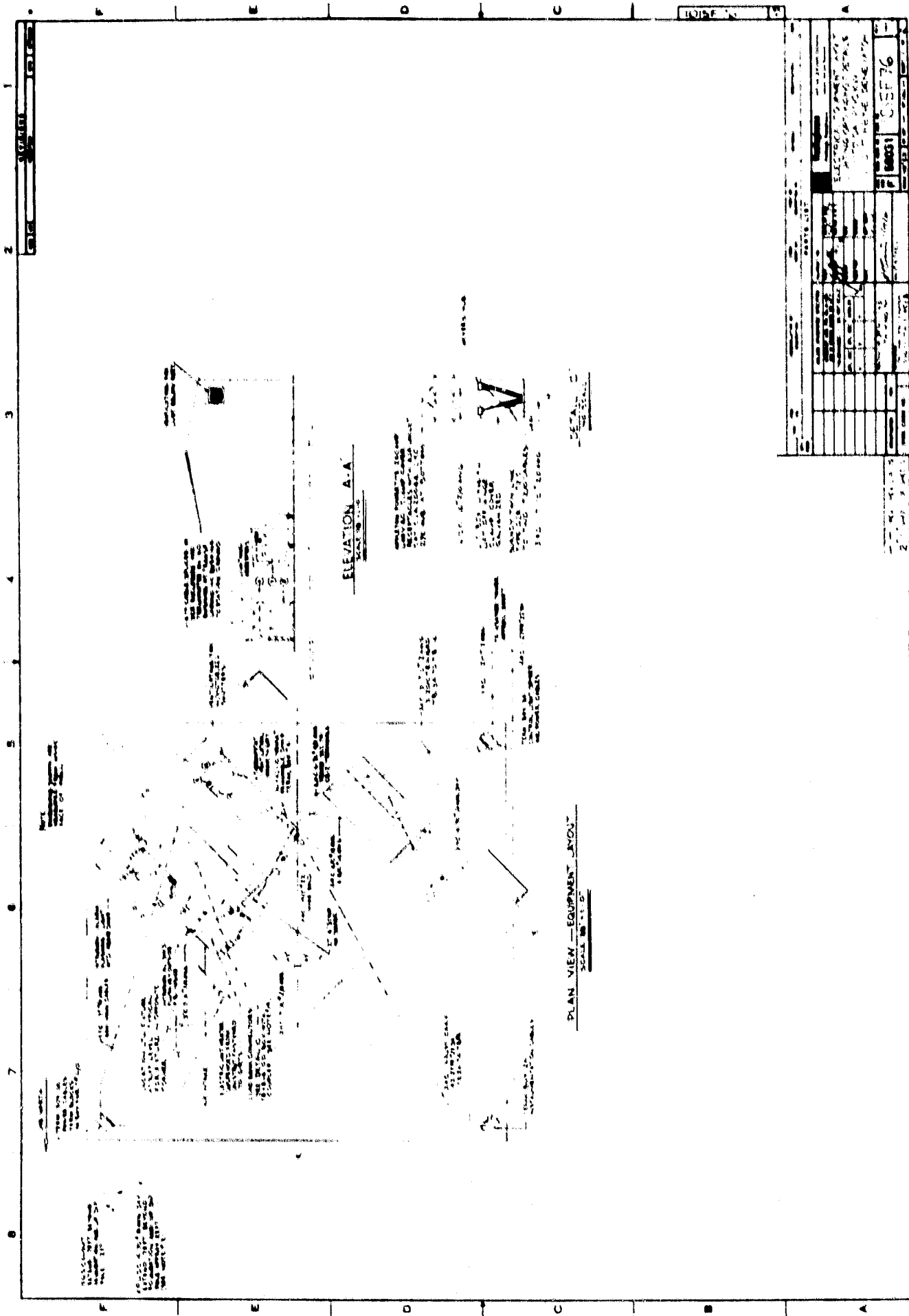


PART NO.		REV.		DATE		BY		CHKD.	
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<p>DESCRIPTION</p> <p>SPECIAL SPEED REDUCER PART NO. 1015F72 MANUFACTURED BY: [illegible] DATE: 10/15/72</p>									



1018 6 73		REV. 1			REV. 2		REV. 3		REV. 4		REV. 5		REV. 6		REV. 7		REV. 8	
NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
DATE																		
BY																		
CHECKED BY																		
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DESIGNED BY																		
CHECKED BY																		
DATE																		
TITLE 1018 6 73		PART NO. 1018 6 73		QUANTITY 1018 6 73		UNIT PRICE 1018 6 73		TOTAL PRICE 1018 6 73		MAKE 1018 6 73		DATE 1018 6 73		BY 1018 6 73		CHECKED BY 1018 6 73		

ALL DIMENSIONS ARE IN INCHES
 UNLESS OTHERWISE SPECIFIED
 FINISHES AND TOLERANCES AS SHOWN
 MATERIALS AND TREATMENTS AS SPECIFIED
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]

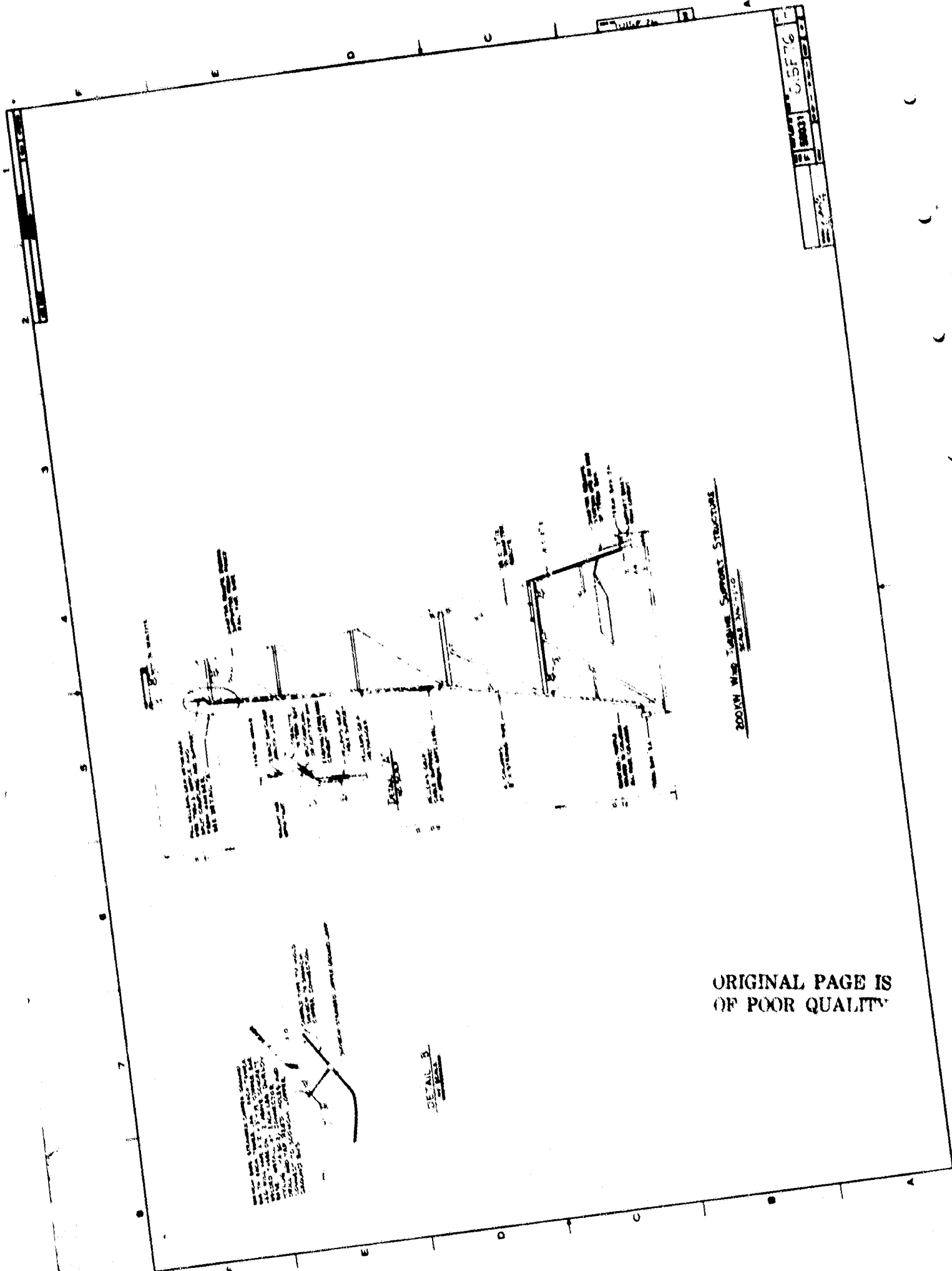


ELEVATION A-A
SCALE 1/8\"/>

PLAN VIEW - EQUIPMENT LAYOUT
SCALE 1/8\"/>

REVISIONS		DATE	
1	AS SHOWN	10/15/76	10/15/76
2	REVISION		
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PROJECT NO. 10001
DATE 01/27/76

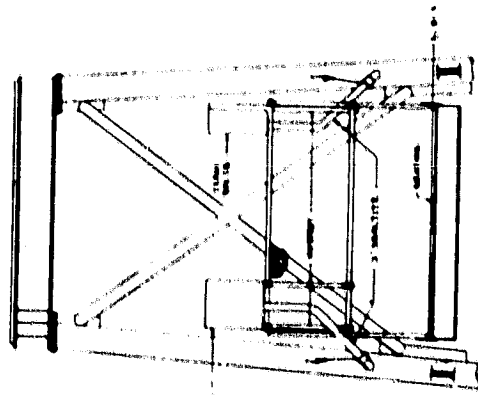


NO.	DATE	REVISION
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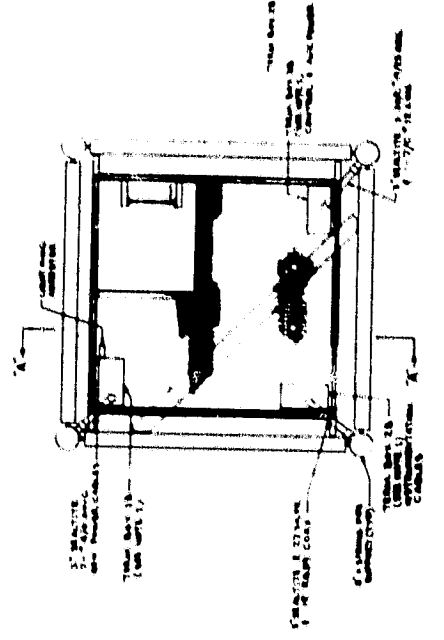
ROOM WITH TYPICAL SUPPORT STRUCTURE
SCALE 1/8" = 1'-0"

DETAIL B

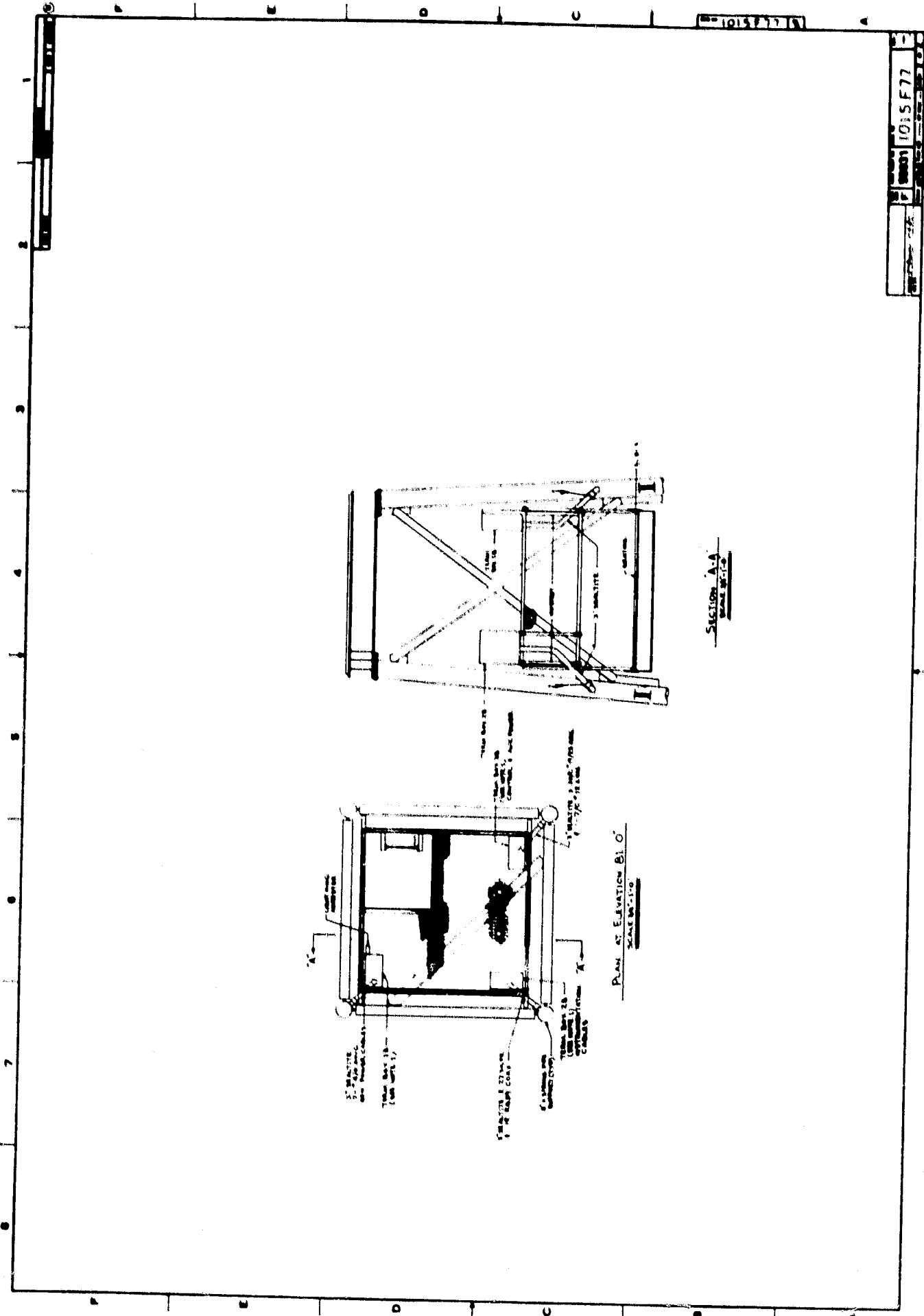
ORIGINAL PAGE IS
OF POOR QUALITY

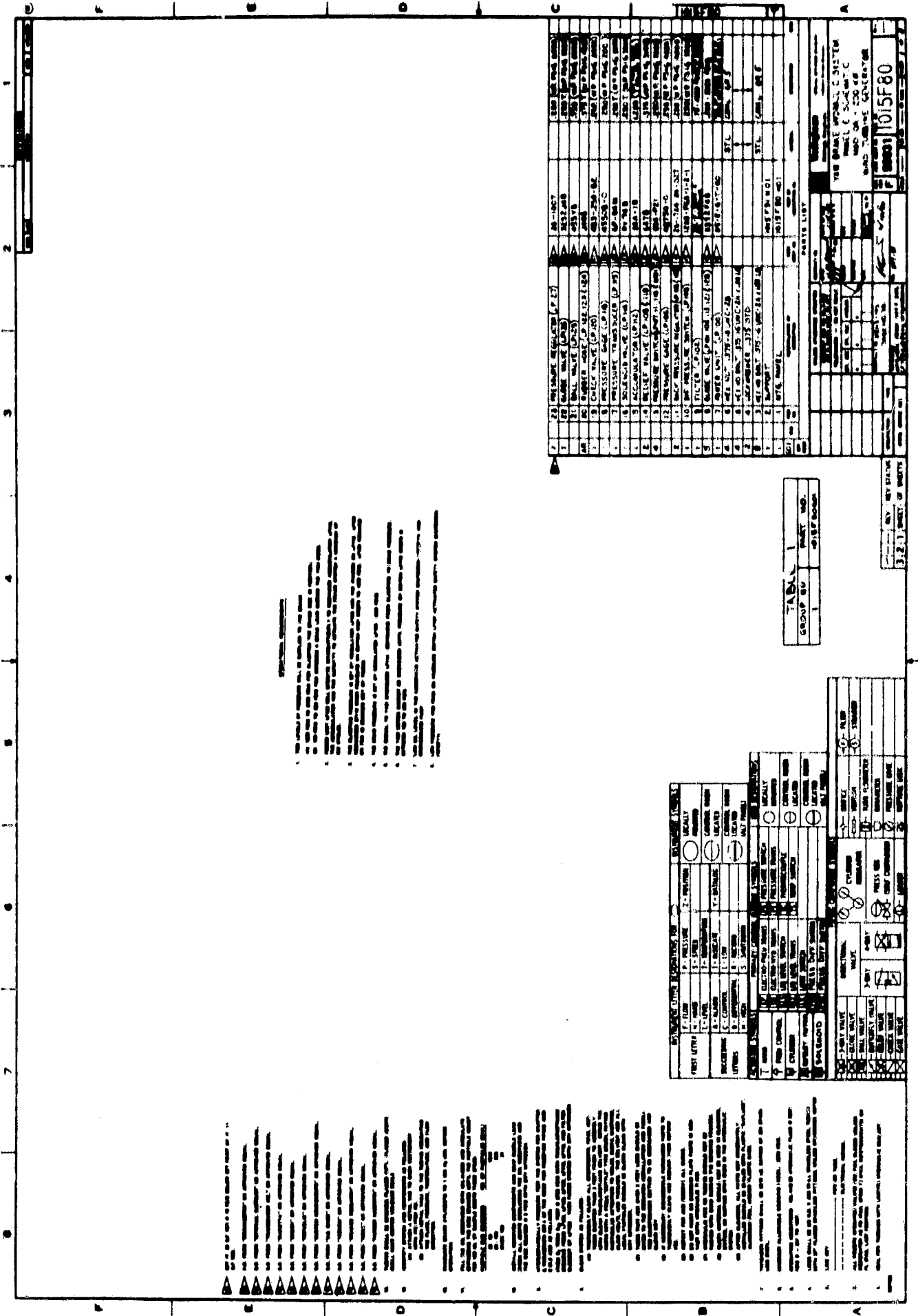


SECTION A-A
SCALE 1/2\"/>



PLAN AT ELEVATION B-B
SCALE 1/2\"/>





1. THE VALVE IS DESIGNED TO BE OPERATED BY THE FOLLOWING METHODS:

2. BY THE USE OF THE HAND OPERATOR.

3. BY THE USE OF THE ELECTRIC OPERATOR.

4. BY THE USE OF THE AIR OPERATOR.

5. BY THE USE OF THE HYDRAULIC OPERATOR.

6. BY THE USE OF THE PNEUMATIC OPERATOR.

7. BY THE USE OF THE MECHANICAL OPERATOR.

8. BY THE USE OF THE THERMAL OPERATOR.

9. BY THE USE OF THE CHEMICAL OPERATOR.

10. BY THE USE OF THE BIOLOGICAL OPERATOR.

11. BY THE USE OF THE NUCLEAR OPERATOR.

12. BY THE USE OF THE COSMIC OPERATOR.

13. BY THE USE OF THE GRAVITATIONAL OPERATOR.

14. BY THE USE OF THE MAGNETIC OPERATOR.

15. BY THE USE OF THE ELECTROSTATIC OPERATOR.

16. BY THE USE OF THE ELECTROMAGNETIC OPERATOR.

17. BY THE USE OF THE ELECTROWEAK OPERATOR.

18. BY THE USE OF THE ELECTROSTRONG OPERATOR.

19. BY THE USE OF THE ELECTROGRAVITATIONAL OPERATOR.

20. BY THE USE OF THE ELECTROBIOSOPHIC OPERATOR.

21. BY THE USE OF THE ELECTROPHYSIOLOGICAL OPERATOR.

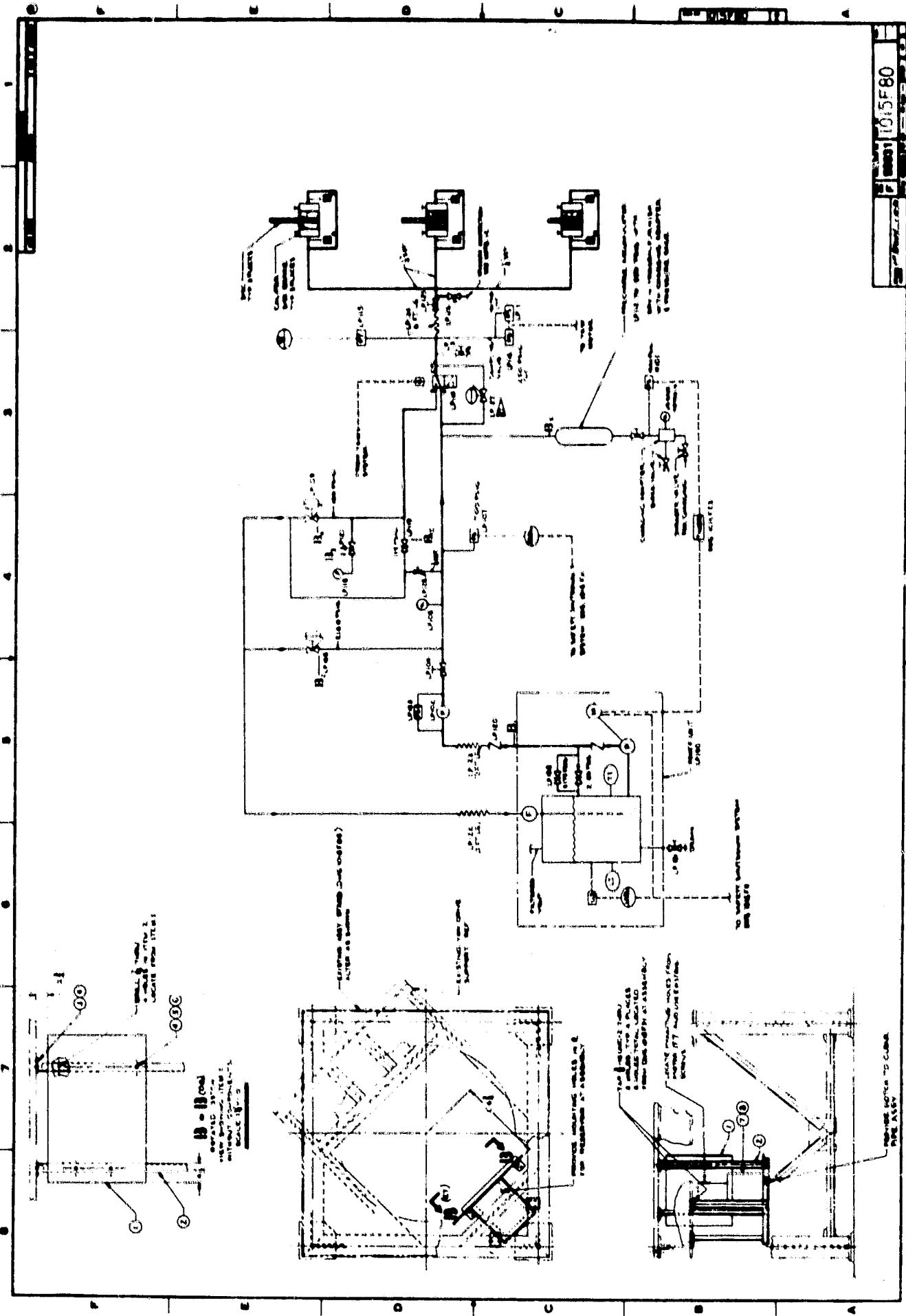
22. BY THE USE OF THE ELECTROPSYCHIC OPERATOR.

TABLE 1	
GROUP NO.	PART NO.
1	015F80

NO.	DESCRIPTION	QTY.	UNIT	REF.	REMARKS
1	VALVE BODY	1	PC	1015F80	
2	VALVE PLATE	1	PC	1015F80	
3	VALVE SEAT	1	PC	1015F80	
4	VALVE SPRING	1	PC	1015F80	
5	VALVE BUSH	1	PC	1015F80	
6	VALVE PIN	1	PC	1015F80	
7	VALVE GUIDE	1	PC	1015F80	
8	VALVE O-RING	1	PC	1015F80	
9	VALVE WASHER	1	PC	1015F80	
10	VALVE NUT	1	PC	1015F80	
11	VALVE SCREW	1	PC	1015F80	
12	VALVE PIN	1	PC	1015F80	
13	VALVE PIN	1	PC	1015F80	
14	VALVE PIN	1	PC	1015F80	
15	VALVE PIN	1	PC	1015F80	
16	VALVE PIN	1	PC	1015F80	
17	VALVE PIN	1	PC	1015F80	
18	VALVE PIN	1	PC	1015F80	
19	VALVE PIN	1	PC	1015F80	
20	VALVE PIN	1	PC	1015F80	
21	VALVE PIN	1	PC	1015F80	
22	VALVE PIN	1	PC	1015F80	

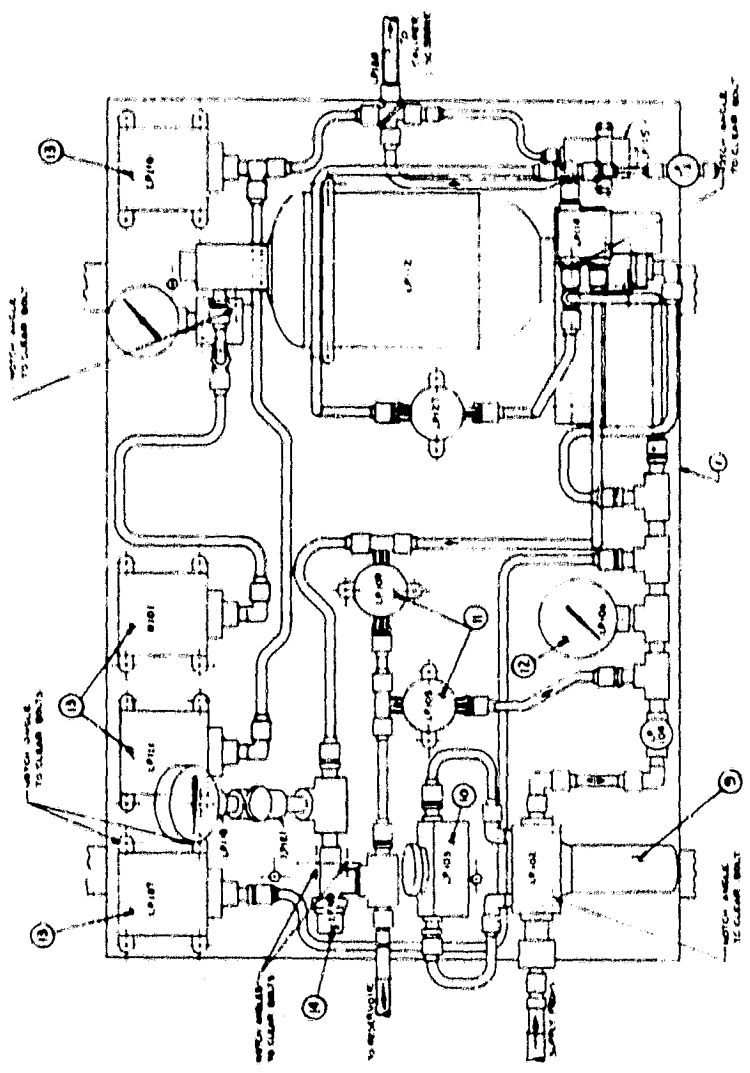
1. VALVE BODY	2. VALVE PLATE	3. VALVE SEAT	4. VALVE SPRING	5. VALVE BUSH	6. VALVE PIN	7. VALVE GUIDE	8. VALVE O-RING	9. VALVE WASHER	10. VALVE NUT	11. VALVE SCREW	12. VALVE PIN	13. VALVE PIN	14. VALVE PIN	15. VALVE PIN	16. VALVE PIN	17. VALVE PIN	18. VALVE PIN	19. VALVE PIN	20. VALVE PIN	21. VALVE PIN	22. VALVE PIN
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1. VALVE BODY	2. VALVE PLATE	3. VALVE SEAT	4. VALVE SPRING	5. VALVE BUSH	6. VALVE PIN	7. VALVE GUIDE	8. VALVE O-RING	9. VALVE WASHER	10. VALVE NUT	11. VALVE SCREW	12. VALVE PIN	13. VALVE PIN	14. VALVE PIN	15. VALVE PIN	16. VALVE PIN	17. VALVE PIN	18. VALVE PIN	19. VALVE PIN	20. VALVE PIN	21. VALVE PIN	22. VALVE PIN
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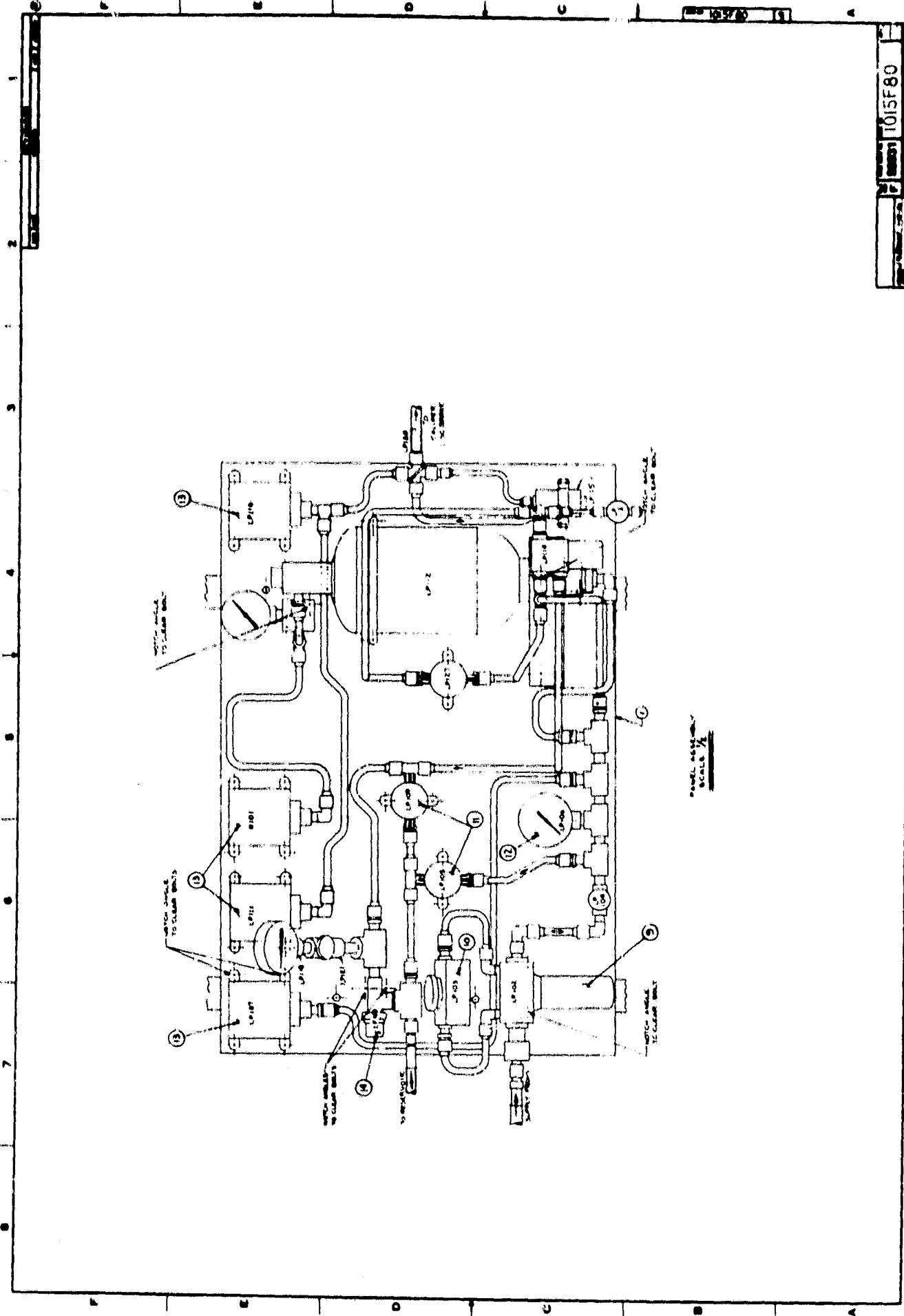


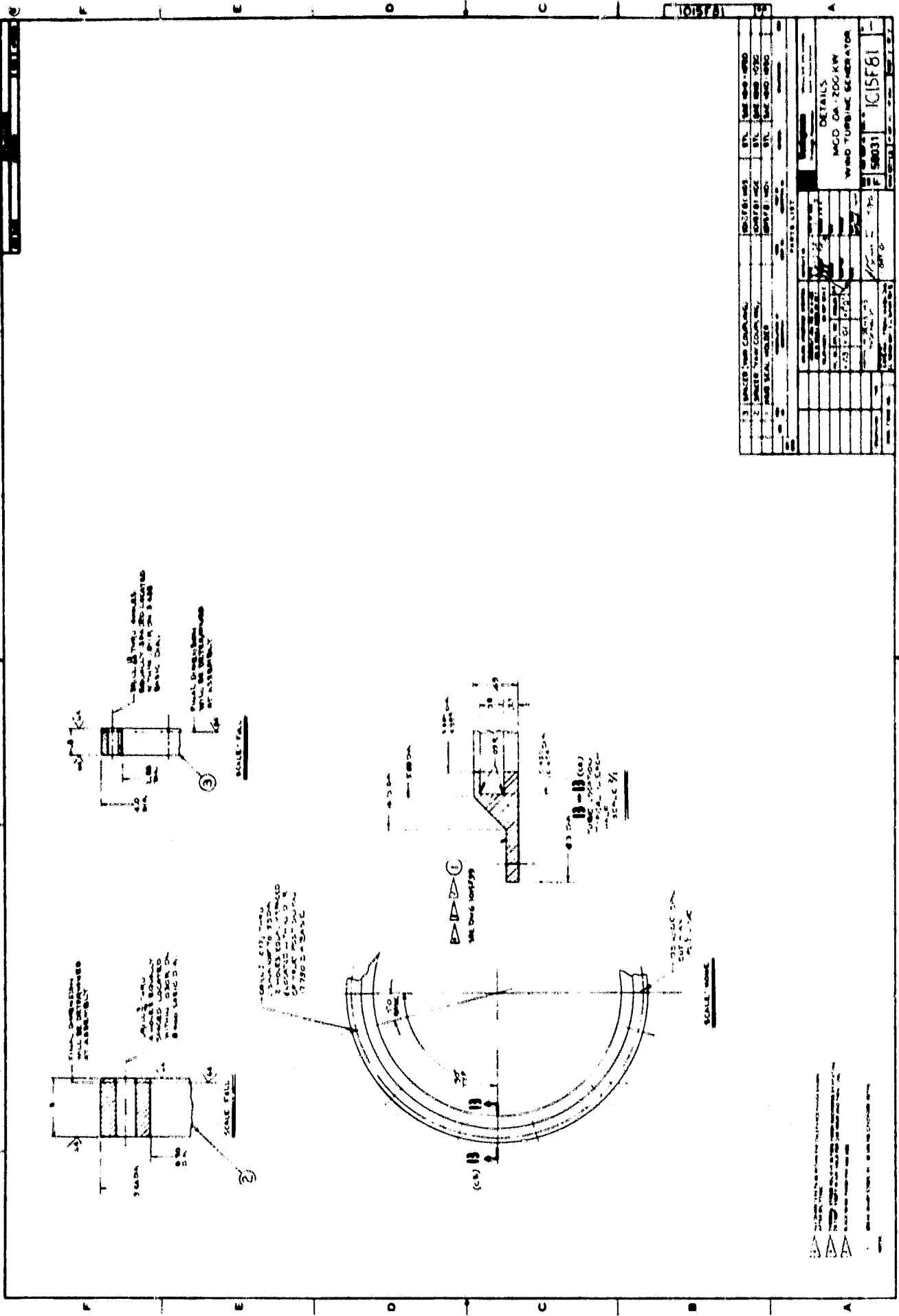
1 2 3 4 5 6 7 8

9 10 11 12 13 14 15 16 17 18 19 20



PANEL ASSEMBLY
SCALE 1/4"

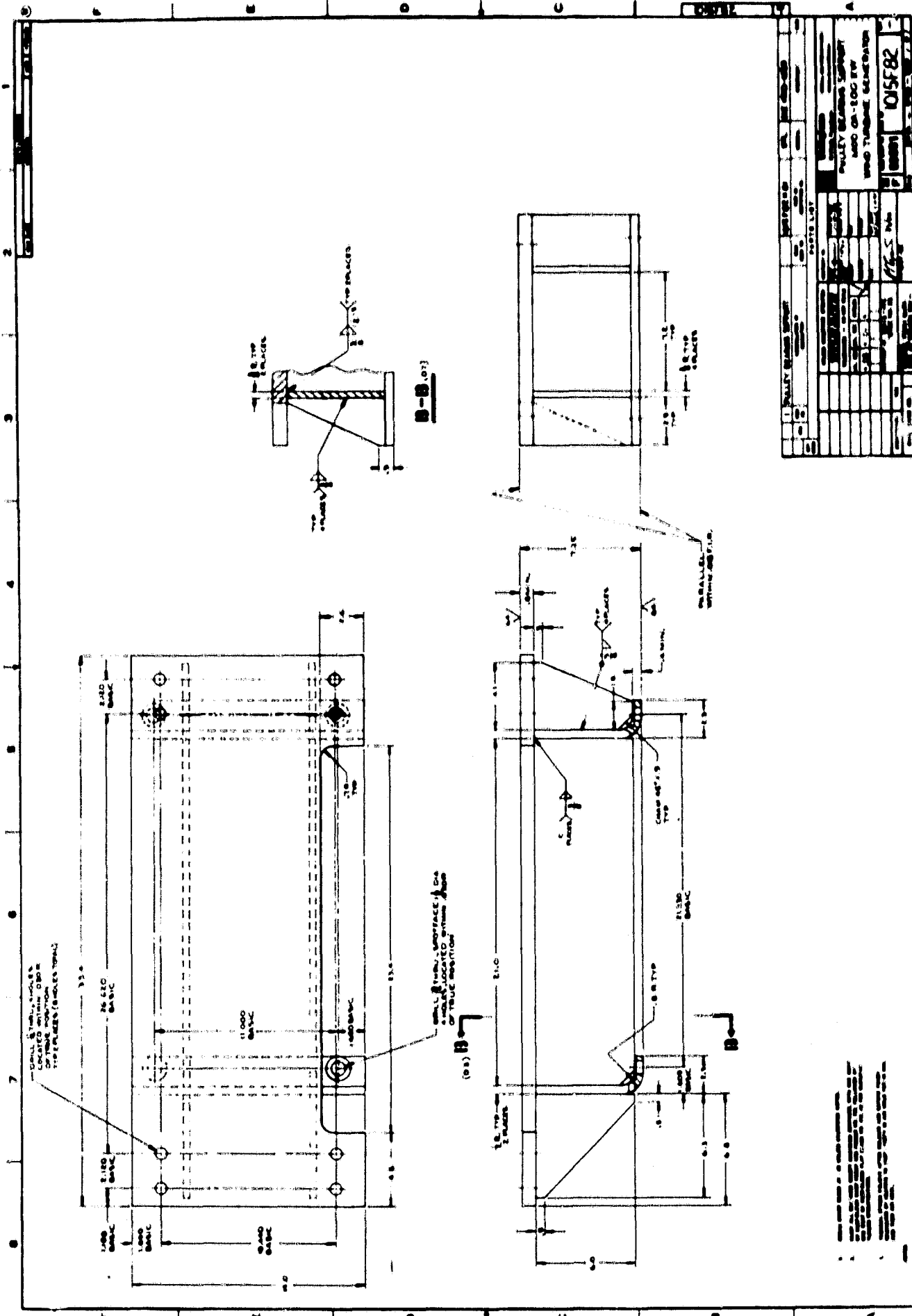




NO.	REV.	DESCRIPTION	DATE	BY	CHKD.
1	1	ISSUED FOR CONSTRUCTION			
2	1	ISSUED FOR CONSTRUCTION			
3	1	ISSUED FOR CONSTRUCTION			

PARTS LIST	
QTY	DESCRIPTION

DETAILS	
MCD OR 200KW WIND TURBINE GENERATOR	
DESIGN NO.	10157A
REV.	1
DATE	
BY	
CHKD.	



PROJECT NO.		28510
DATE		01582
DRAWN BY		...
CHECKED BY		...
APPROVED BY		...
PROJECT NAME		PULLEY BEAM SUPPORT
PROJECT LOCATION		...
PROJECT DESCRIPTION		...
PROJECT NUMBER		...
PROJECT DATE		...
PROJECT STATUS		...
PROJECT OWNER		...
PROJECT CONTRACTOR		...
PROJECT ARCHITECT		...
PROJECT ENGINEER		...
PROJECT SURVEYOR		...
PROJECT CONSULTANT		...
PROJECT SPECIALIST		...
PROJECT SUBMITTER		...
PROJECT REVIEWER		...
PROJECT APPROVER		...
PROJECT SIGNATURE		...
PROJECT TITLE		...
PROJECT NUMBER		...
PROJECT DATE		...
PROJECT STATUS		...
PROJECT OWNER		...
PROJECT CONTRACTOR		...
PROJECT ARCHITECT		...
PROJECT ENGINEER		...
PROJECT SURVEYOR		...
PROJECT CONSULTANT		...
PROJECT SPECIALIST		...
PROJECT SUBMITTER		...
PROJECT REVIEWER		...
PROJECT APPROVER		...
PROJECT SIGNATURE		...
PROJECT TITLE		...

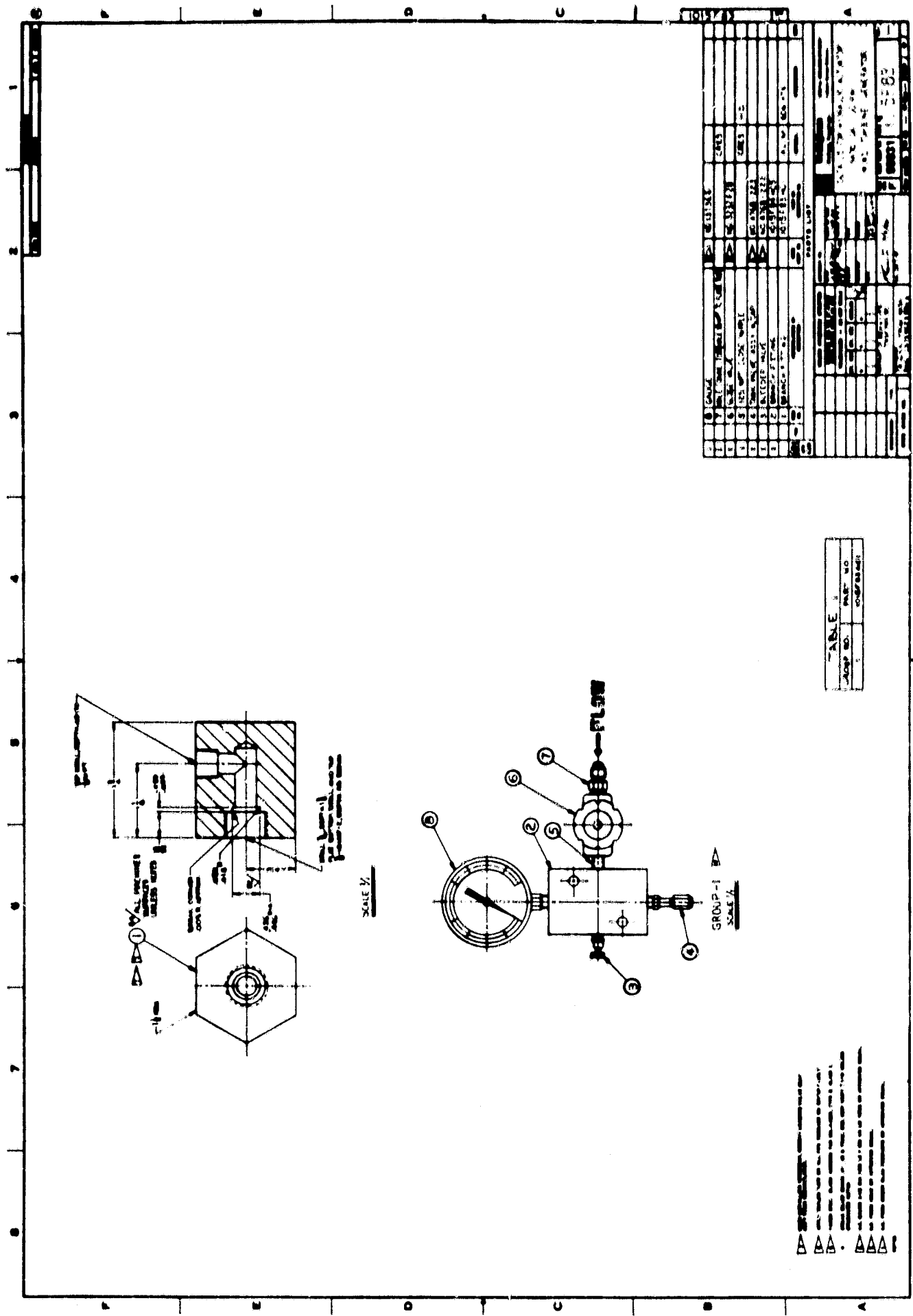
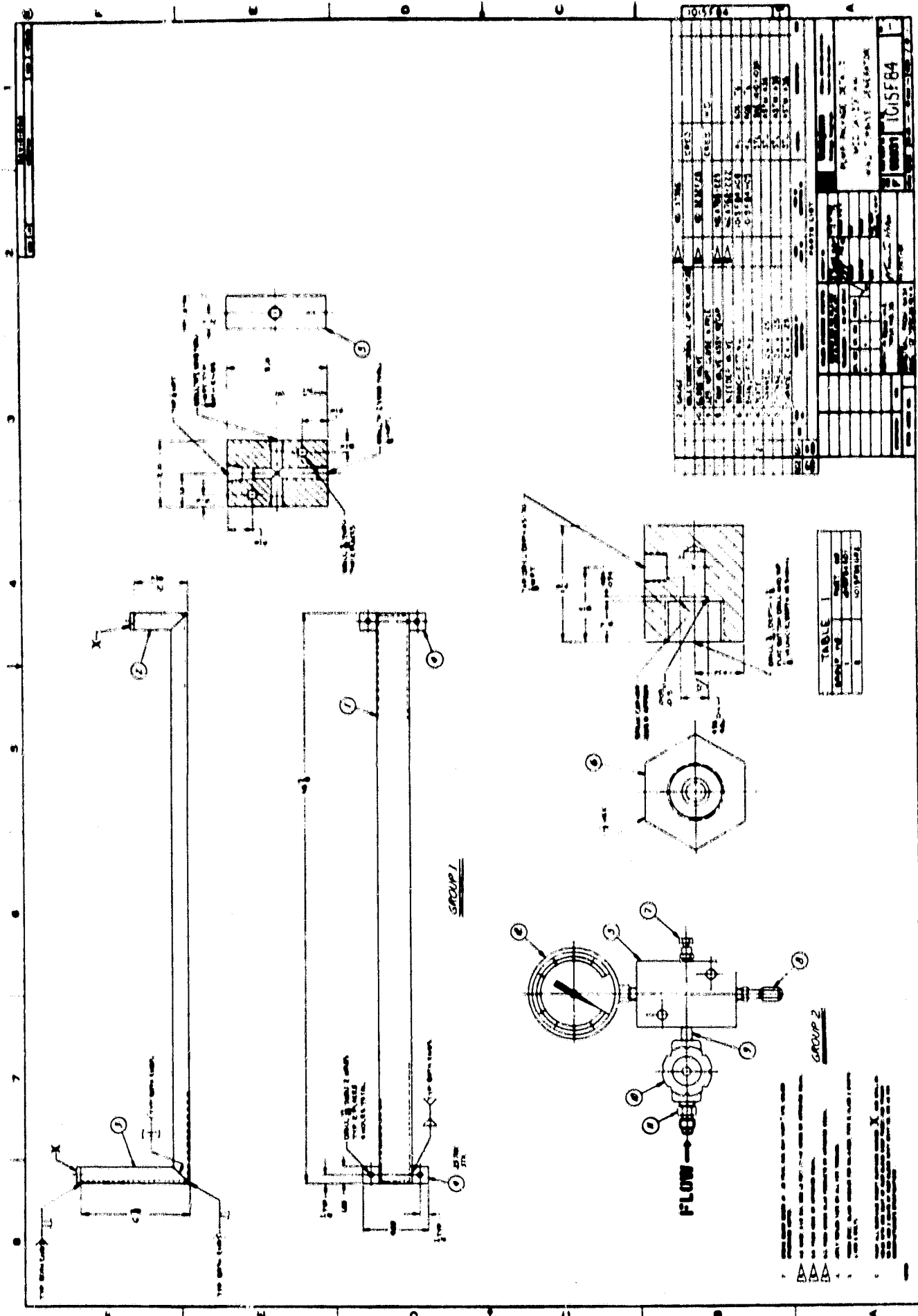


TABLE 1		
JOB NO.	FILE NO.	COMPONENT

PARTS LIST			
QTY	DESCRIPTION	UNIT	REMARKS
1	BASE		
1	MAIN BODY		
1	TOP CAP		
1	TOP SEAL		
1	TOP NUT		
1	TOP WASHER		
1	TOP NUT		
1	WASHER		
1	SHAFT		
1	PISTON		
1	PISTON RINGS		
1	OIL SEAL		
1	WASHER		
1	NUT		



1	2	3	4	5	6	7	8
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10055	10056	10057	10058	10059	10060	10061	10062	10063	10064	10065	10066	10067	10068	10069	10070	10071	10072	10073	10074	10075	10076	10077	10078	10079	10080	10081	10082	10083	10084	10085	10086	10087	10088	10089	10090	10091	10092	10093	10094	10095	10096	10097	10098	10099	10100
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

TABLE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
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GROUP 1

GROUP 2

1. THE PART IS TO BE MANUFACTURED IN ACCORDANCE WITH THE DIMENSIONS AND TOLERANCES SHOWN ON THIS DRAWING.

2. THE PART IS TO BE MANUFACTURED FROM THE MATERIAL SPECIFIED IN THE TITLE BLOCK.

3. THE PART IS TO BE MANUFACTURED TO THE BEST OF THE MANUFACTURER'S ABILITY.

4. THE PART IS TO BE MANUFACTURED TO THE DESIGNER'S INTENT.

5. THE PART IS TO BE MANUFACTURED TO THE CUSTOMER'S REQUIREMENTS.

6. THE PART IS TO BE MANUFACTURED TO THE USER'S NEEDS.

7. THE PART IS TO BE MANUFACTURED TO THE SUPPLIER'S CAPABILITY.

8. THE PART IS TO BE MANUFACTURED TO THE CONTRACTOR'S OBLIGATION.

9. THE PART IS TO BE MANUFACTURED TO THE EMPLOYEE'S DUTY.

10. THE PART IS TO BE MANUFACTURED TO THE SOCIETY'S INTEREST.

11. THE PART IS TO BE MANUFACTURED TO THE NATION'S DEFENSE.

12. THE PART IS TO BE MANUFACTURED TO THE WORLD'S PROGRESS.

13. THE PART IS TO BE MANUFACTURED TO THE HUMANITY'S WELL-BEING.

14. THE PART IS TO BE MANUFACTURED TO THE GODS' GLORY.

15. THE PART IS TO BE MANUFACTURED TO THE KINGDOM'S HONOR.

16. THE PART IS TO BE MANUFACTURED TO THE CHURCH'S DOCTRINE.

17. THE PART IS TO BE MANUFACTURED TO THE PEOPLE'S FAITH.

18. THE PART IS TO BE MANUFACTURED TO THE ANGELS' WORSHIP.

19. THE PART IS TO BE MANUFACTURED TO THE DEVILS' TERROR.

20. THE PART IS TO BE MANUFACTURED TO THE HEAVENS' PRAISE.

21. THE PART IS TO BE MANUFACTURED TO THE EARTH'S BENEFIT.

22. THE PART IS TO BE MANUFACTURED TO THE SEA'S CALM.

23. THE PART IS TO BE MANUFACTURED TO THE AIR'S CLARITY.

24. THE PART IS TO BE MANUFACTURED TO THE FIRE'S PURITY.

25. THE PART IS TO BE MANUFACTURED TO THE WATER'S CLEanness.

26. THE PART IS TO BE MANUFACTURED TO THE EARTH'S FERTILITY.

27. THE PART IS TO BE MANUFACTURED TO THE SKY'S HEIGHT.

28. THE PART IS TO BE MANUFACTURED TO THE GROUND'S DEPTH.

29. THE PART IS TO BE MANUFACTURED TO THE HEAVENS' BREADTH.

30. THE PART IS TO BE MANUFACTURED TO THE EARTH'S LENGTH.

31. THE PART IS TO BE MANUFACTURED TO THE SEA'S WIDTH.

32. THE PART IS TO BE MANUFACTURED TO THE AIR'S DEPTH.

33. THE PART IS TO BE MANUFACTURED TO THE FIRE'S BREADTH.

34. THE PART IS TO BE MANUFACTURED TO THE WATER'S LENGTH.

35. THE PART IS TO BE MANUFACTURED TO THE EARTH'S WIDTH.

36. THE PART IS TO BE MANUFACTURED TO THE SKY'S DEPTH.

37. THE PART IS TO BE MANUFACTURED TO THE GROUND'S BREADTH.

38. THE PART IS TO BE MANUFACTURED TO THE HEAVENS' LENGTH.

39. THE PART IS TO BE MANUFACTURED TO THE EARTH'S DEPTH.

40. THE PART IS TO BE MANUFACTURED TO THE SEA'S BREADTH.

41. THE PART IS TO BE MANUFACTURED TO THE AIR'S LENGTH.

42. THE PART IS TO BE MANUFACTURED TO THE FIRE'S DEPTH.

43. THE PART IS TO BE MANUFACTURED TO THE WATER'S BREADTH.

44. THE PART IS TO BE MANUFACTURED TO THE EARTH'S LENGTH.

45. THE PART IS TO BE MANUFACTURED TO THE SKY'S DEPTH.

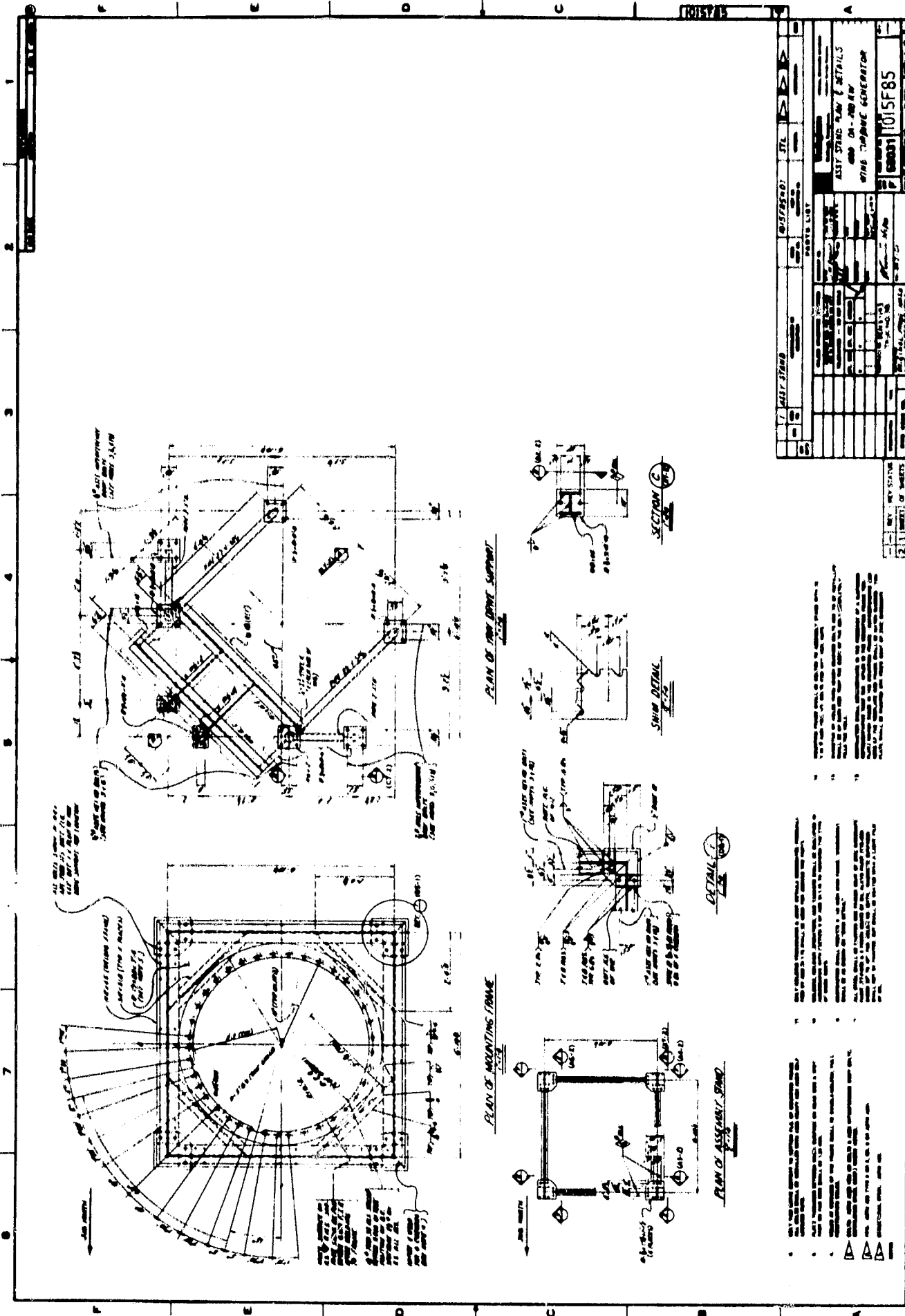
46. THE PART IS TO BE MANUFACTURED TO THE GROUND'S BREADTH.

47. THE PART IS TO BE MANUFACTURED TO THE HEAVENS' LENGTH.

48. THE PART IS TO BE MANUFACTURED TO THE EARTH'S DEPTH.

49. THE PART IS TO BE MANUFACTURED TO THE SEA'S BREADTH.

50. THE PART IS TO BE MANUFACTURED TO THE AIR'S LENGTH.



ALL DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED. ALL DIMENSIONS TO BE CHECKED BY THE FABRICATOR.

MEASUREMENTS TAKEN FROM THE CENTER OF THE FRAME TO THE CENTER OF THE ENGINE SUPPORT.

ALL DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED. ALL DIMENSIONS TO BE CHECKED BY THE FABRICATOR.

PLAN OF THE ENGINE SUPPORT

PLAN OF MOUNTING FRAME

PLAN OF ASSEMBLY STAND

SECTION C

SHIM DETAIL

DETAIL D

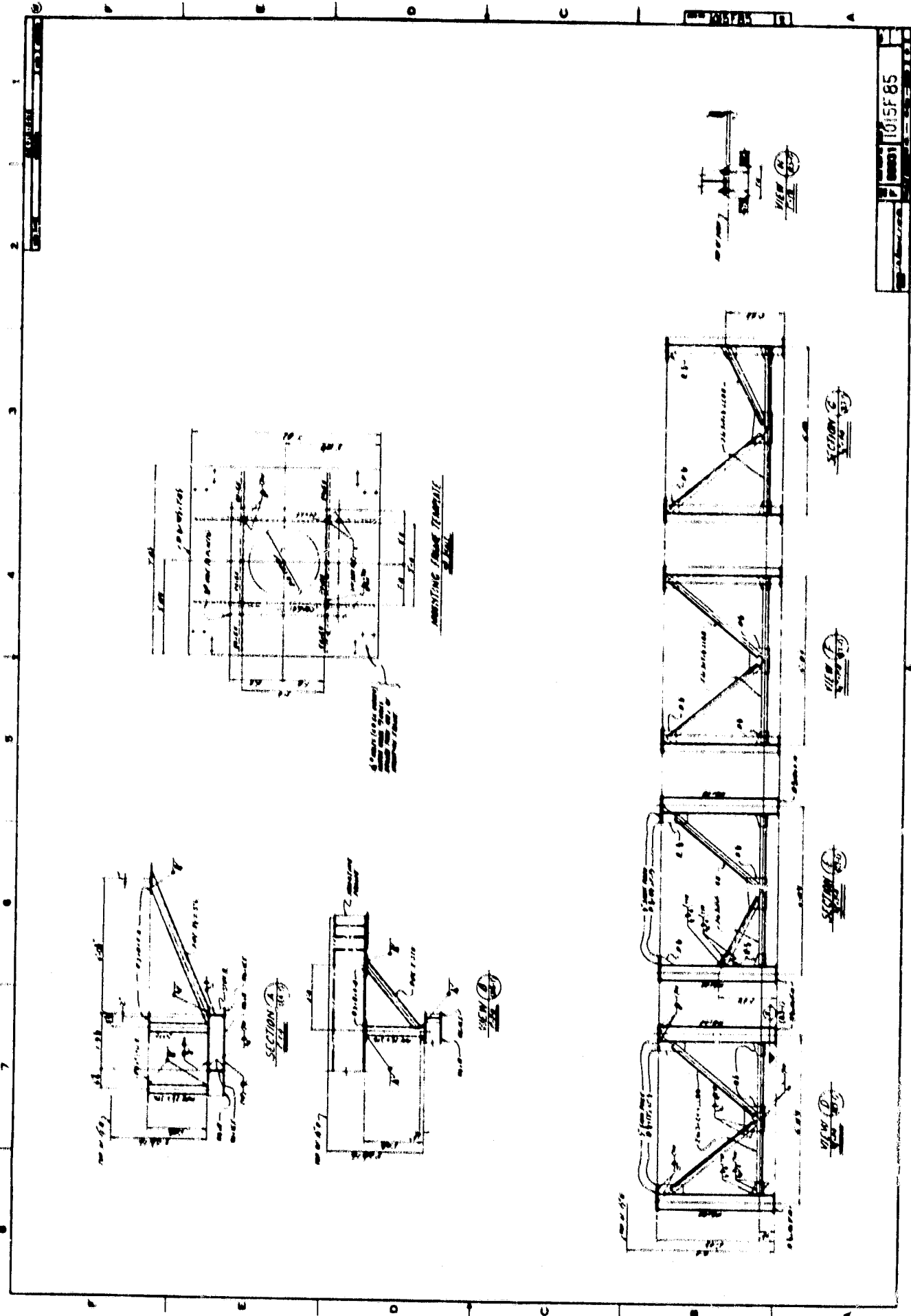
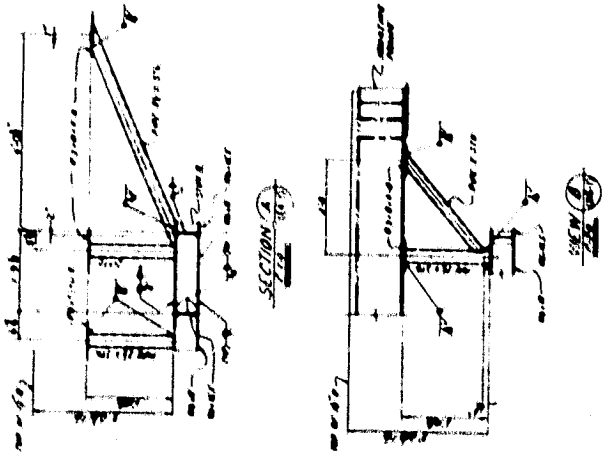
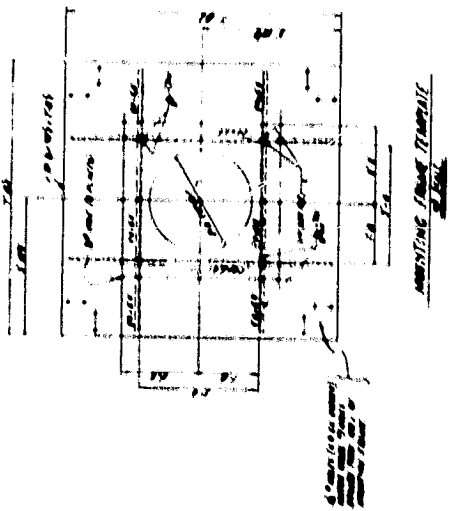
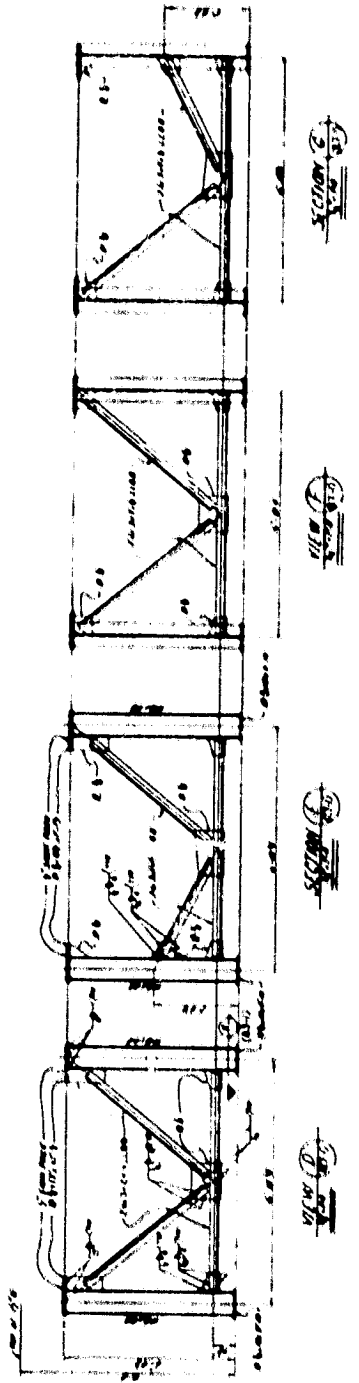
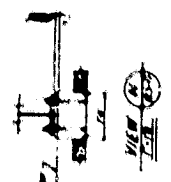
PLAN OF ASSEMBLY STAND

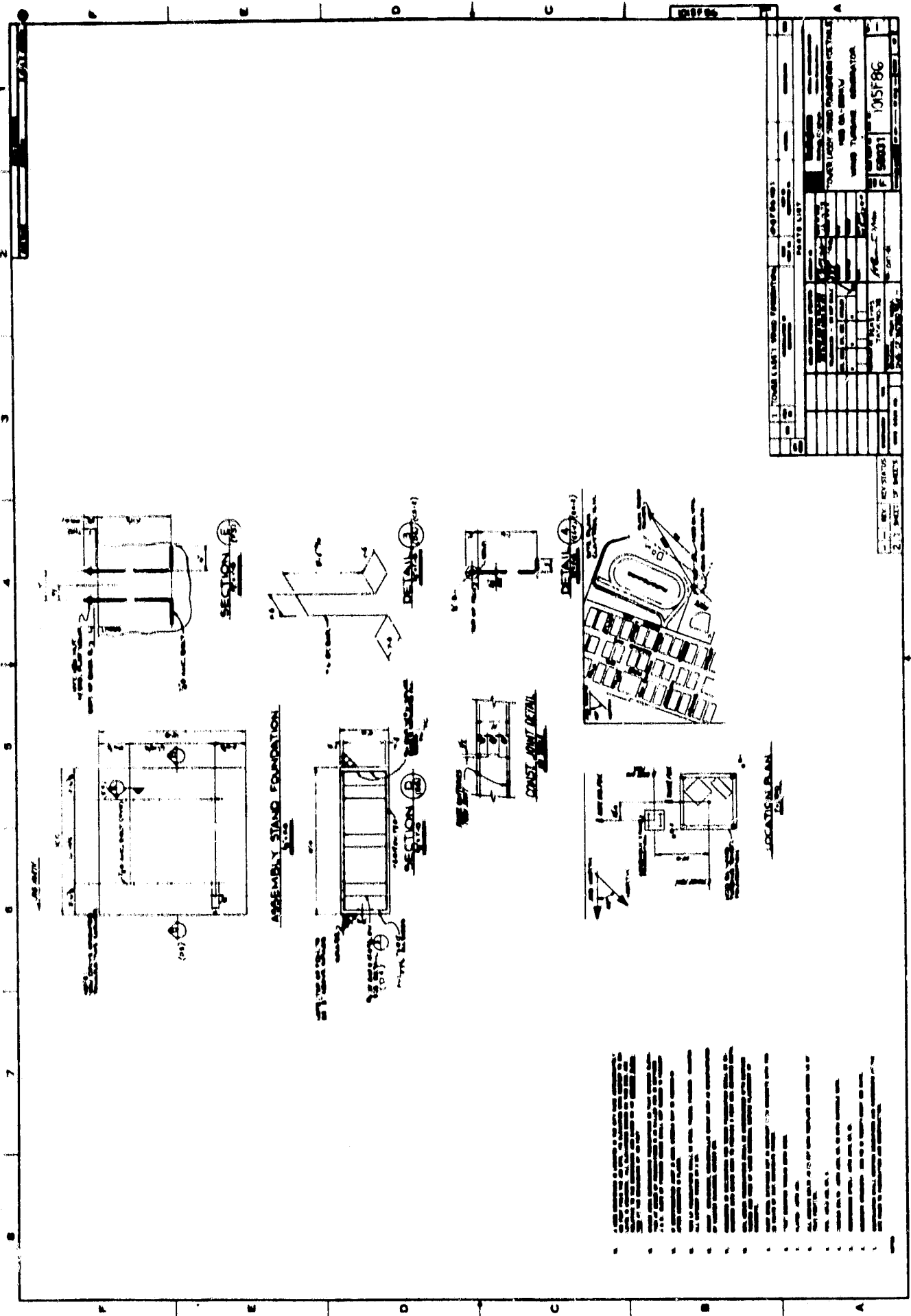
PROJECT NO.		DATE		DRAWN BY		CHECKED BY	
1015F85		10/15/85		[Signature]		[Signature]	
TITLE							
ASST STAND, PLAN & DETAILS FOR ON-BOARD 4700 TURBO GENERATOR							
PARTS LIST							
NO.	QTY	DESCRIPTION	UNIT	REVISION	DATE	BY	CHKD
1	1	ASSEMBLY STAND					
2	1	MOUNTING FRAME					
3	1	ENGINE SUPPORT					
REVISIONS							
NO.	DESCRIPTION	DATE	BY	CHKD			
1	ISSUED FOR FABRICATION	10/15/85	[Signature]	[Signature]			

1. ALL DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED. ALL DIMENSIONS TO BE CHECKED BY THE FABRICATOR.

2. MEASUREMENTS TAKEN FROM THE CENTER OF THE FRAME TO THE CENTER OF THE ENGINE SUPPORT.

3. ALL DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED. ALL DIMENSIONS TO BE CHECKED BY THE FABRICATOR.



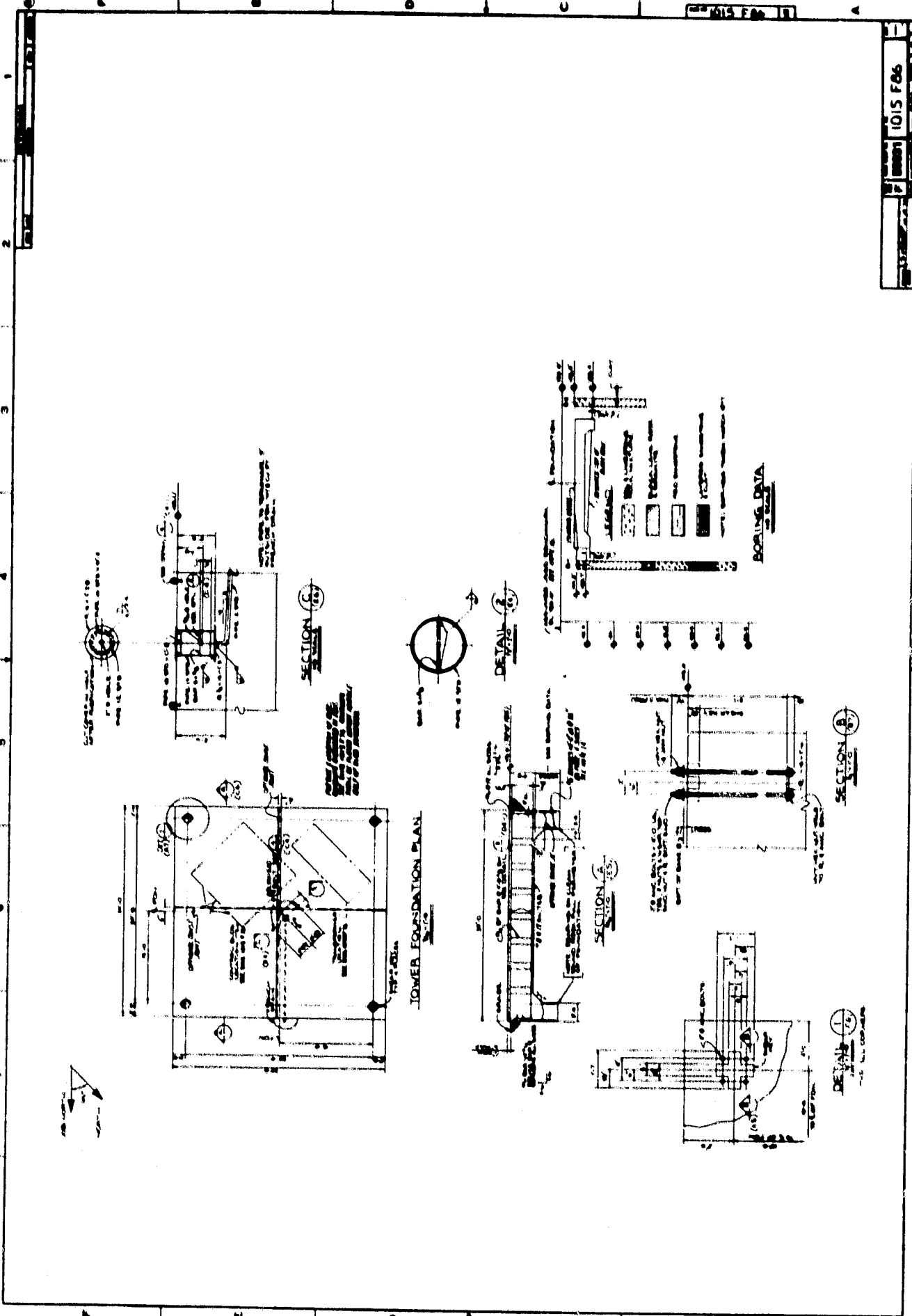


TOWER LIGHT STAND FOUNDATION		DATE LIST	
NO.	DESCRIPTION	DATE	BY
1	TOWER LIGHT STAND FOUNDATION		
2			
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2. SHEET OF 105F86

1. THE FOUNDATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:

- 1.1 THE FOUNDATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
- 1.2 THE FOUNDATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
- 1.3 THE FOUNDATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
- 1.4 THE FOUNDATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
- 1.5 THE FOUNDATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
- 1.6 THE FOUNDATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
- 1.7 THE FOUNDATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
- 1.8 THE FOUNDATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
- 1.9 THE FOUNDATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
- 1.10 THE FOUNDATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:



LOWER FOUNDATION PLAN

BORING DATA

BORING NO.	DEPTH (FEET)	SOIL TYPE	REMARKS
1	0-10	GRAVELLY SAND	
2	10-15	SAND	
3	15-20	CLAY	
4	20-25	CLAY	
5	25-30	CLAY	
6	30-35	CLAY	
7	35-40	CLAY	
8	40-45	CLAY	
9	45-50	CLAY	
10	50-55	CLAY	
11	55-60	CLAY	
12	60-65	CLAY	
13	65-70	CLAY	
14	70-75	CLAY	
15	75-80	CLAY	
16	80-85	CLAY	
17	85-90	CLAY	
18	90-95	CLAY	
19	95-100	CLAY	
20	100-105	CLAY	
21	105-110	CLAY	
22	110-115	CLAY	
23	115-120	CLAY	
24	120-125	CLAY	
25	125-130	CLAY	
26	130-135	CLAY	
27	135-140	CLAY	
28	140-145	CLAY	
29	145-150	CLAY	
30	150-155	CLAY	
31	155-160	CLAY	
32	160-165	CLAY	
33	165-170	CLAY	
34	170-175	CLAY	
35	175-180	CLAY	
36	180-185	CLAY	
37	185-190	CLAY	
38	190-195	CLAY	
39	195-200	CLAY	
40	200-205	CLAY	
41	205-210	CLAY	
42	210-215	CLAY	
43	215-220	CLAY	
44	220-225	CLAY	
45	225-230	CLAY	
46	230-235	CLAY	
47	235-240	CLAY	
48	240-245	CLAY	
49	245-250	CLAY	
50	250-255	CLAY	
51	255-260	CLAY	
52	260-265	CLAY	
53	265-270	CLAY	
54	270-275	CLAY	
55	275-280	CLAY	
56	280-285	CLAY	
57	285-290	CLAY	
58	290-295	CLAY	
59	295-300	CLAY	
60	300-305	CLAY	
61	305-310	CLAY	
62	310-315	CLAY	
63	315-320	CLAY	
64	320-325	CLAY	
65	325-330	CLAY	
66	330-335	CLAY	
67	335-340	CLAY	
68	340-345	CLAY	
69	345-350	CLAY	
70	350-355	CLAY	
71	355-360	CLAY	
72	360-365	CLAY	
73	365-370	CLAY	
74	370-375	CLAY	
75	375-380	CLAY	
76	380-385	CLAY	
77	385-390	CLAY	
78	390-395	CLAY	
79	395-400	CLAY	
80	400-405	CLAY	
81	405-410	CLAY	
82	410-415	CLAY	
83	415-420	CLAY	
84	420-425	CLAY	
85	425-430	CLAY	
86	430-435	CLAY	
87	435-440	CLAY	
88	440-445	CLAY	
89	445-450	CLAY	
90	450-455	CLAY	
91	455-460	CLAY	
92	460-465	CLAY	
93	465-470	CLAY	
94	470-475	CLAY	
95	475-480	CLAY	
96	480-485	CLAY	
97	485-490	CLAY	
98	490-495	CLAY	
99	495-500	CLAY	
100	500-505	CLAY	

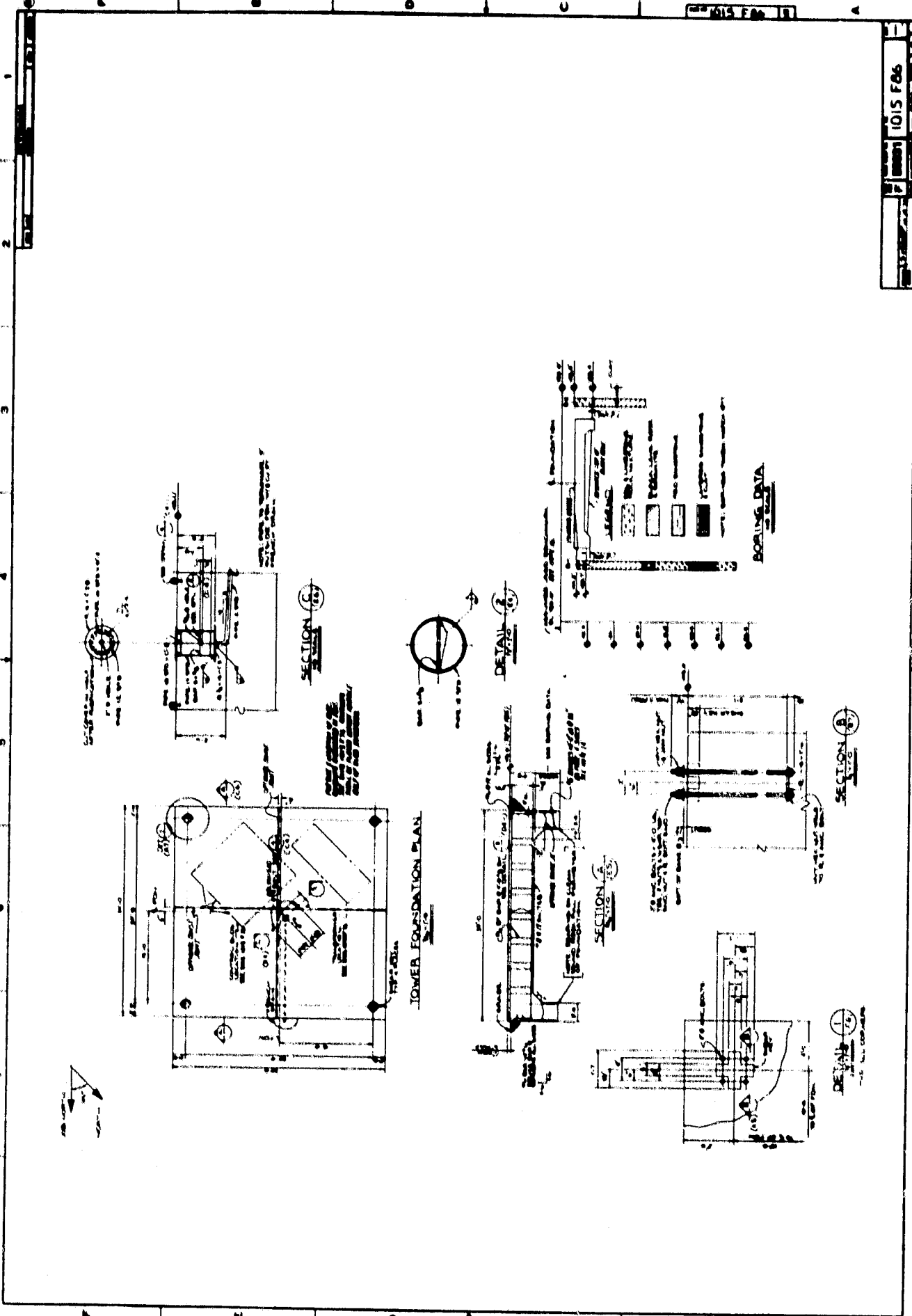
SECTION A-A

DETAIL 1

SECTION B-B

SECTION C-C

DETAIL 2



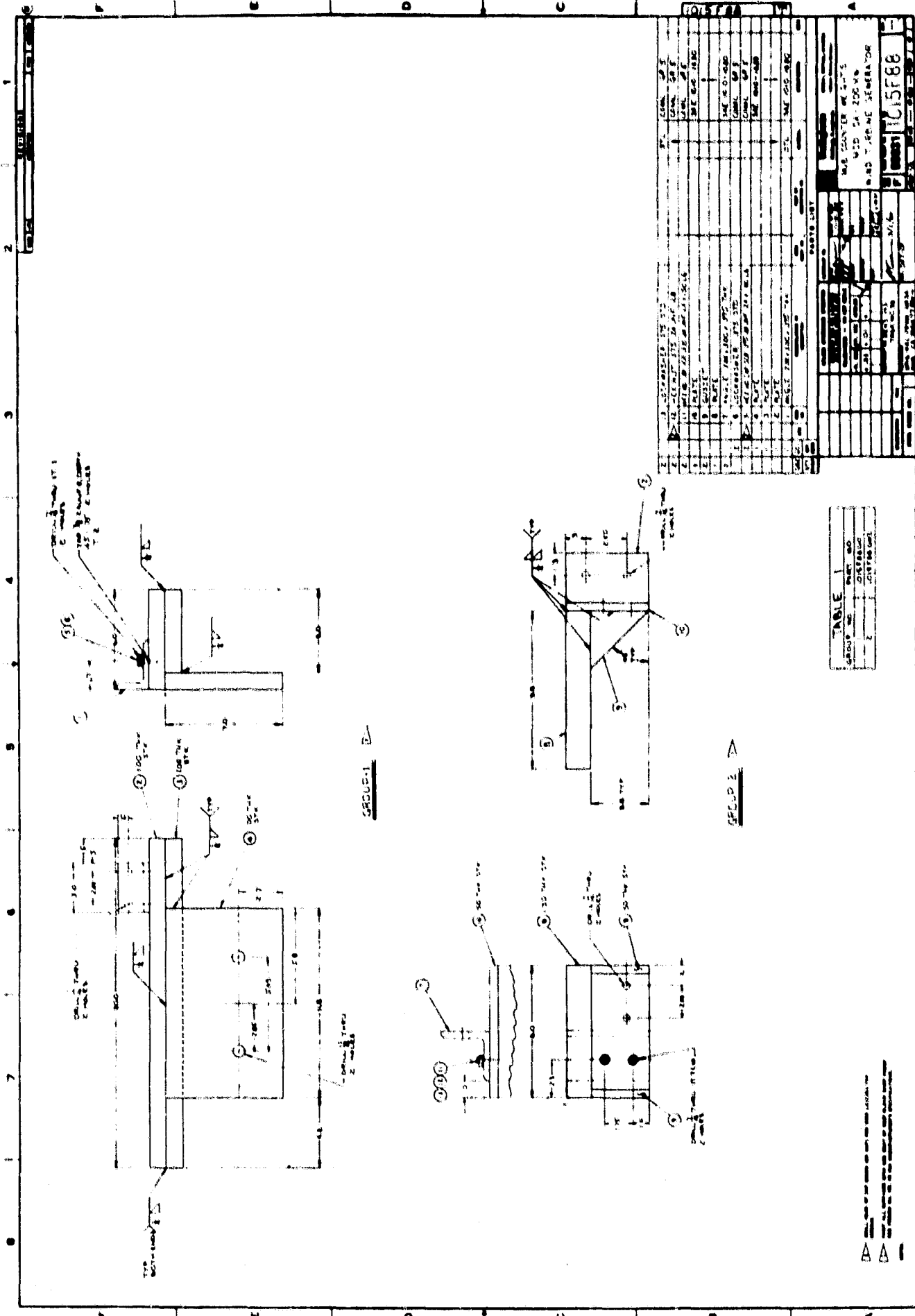


TABLE 1

GROUP NO	DESCRIPTION	QUANTITY	UNIT
1
2

APPROVED BY: _____

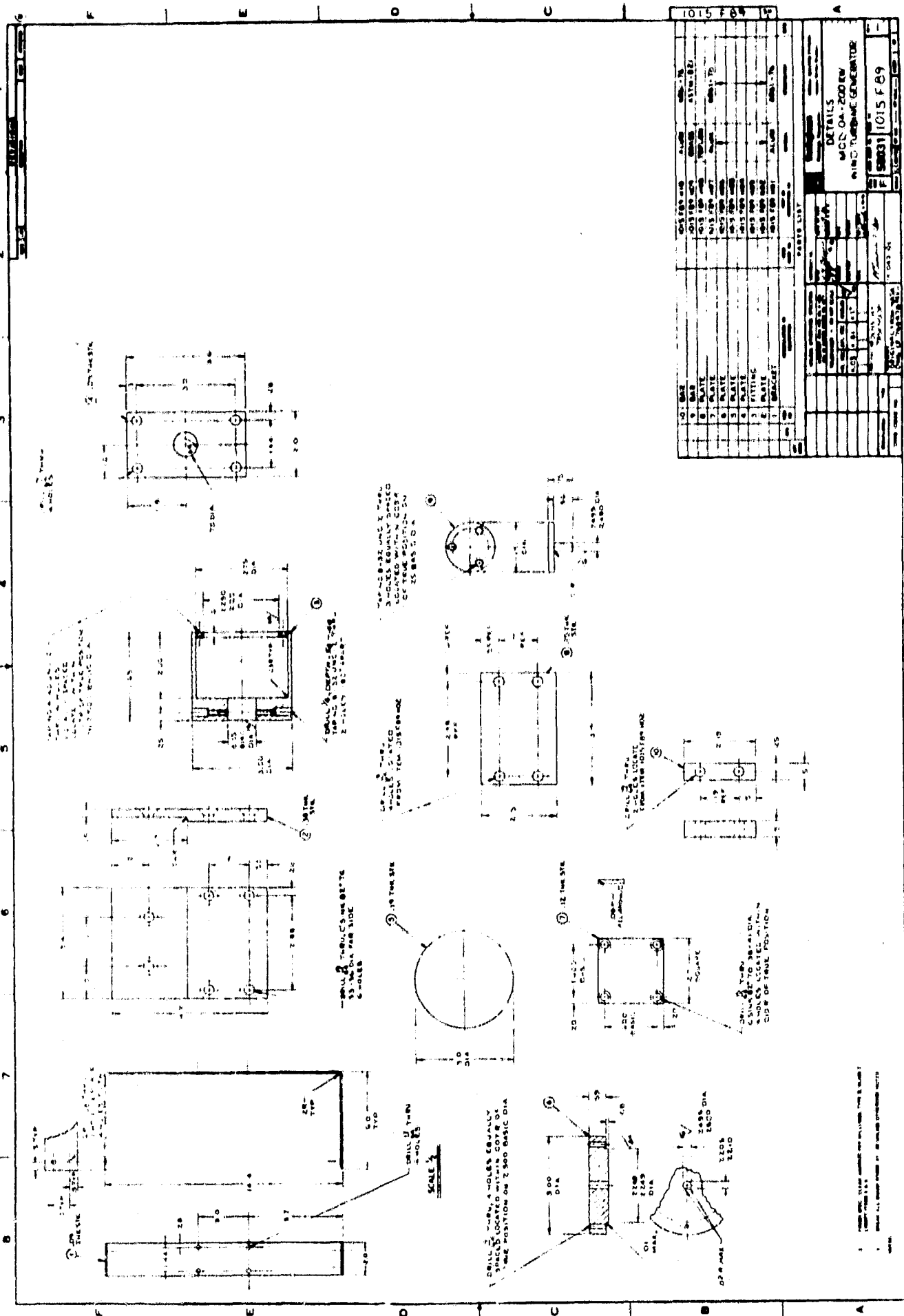
DATE: _____

SCALE: _____

WIND TURBINE GENERATOR

105F88

NO	DESCRIPTION	QTY	UNIT
1
2
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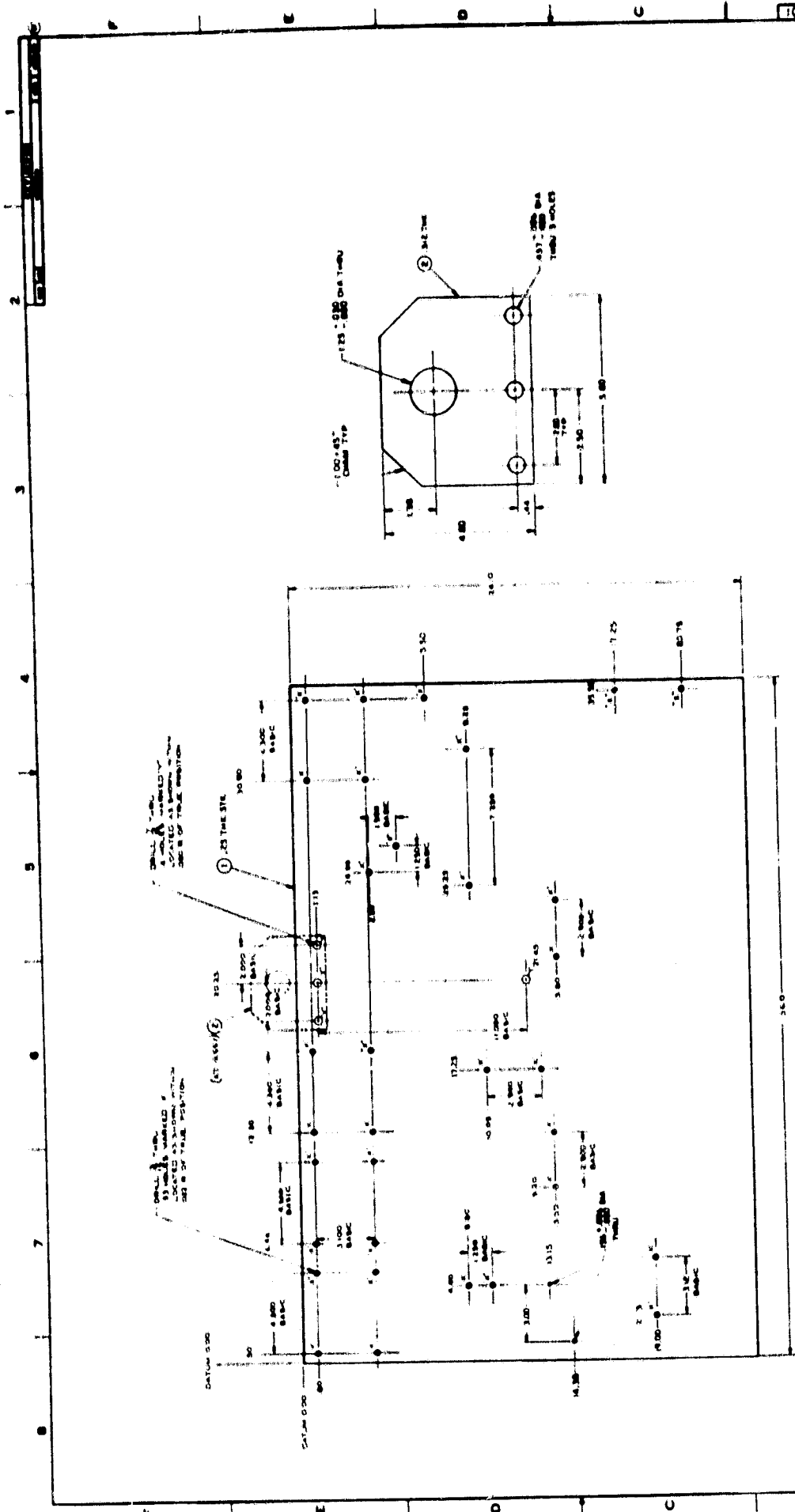


PARTS LIST	
1	BASE
2	PLATE
3	PLATE
4	PLATE
5	PLATE
6	PLATE
7	PLATE
8	BRACKET

1. DRAWN BY: [Name]

2. CHECKED BY: [Name]

3. DATE: [Date]



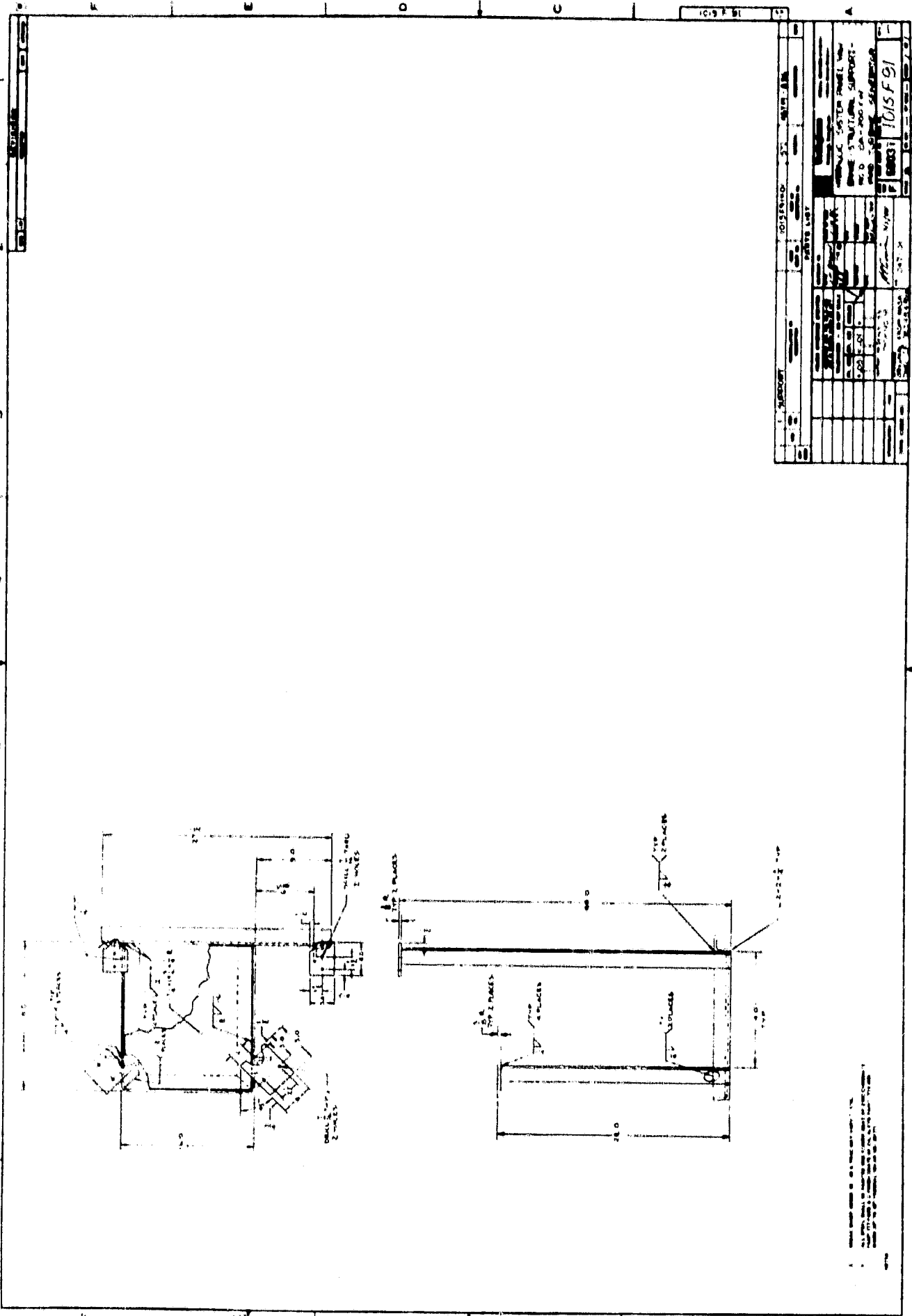
ORIGINAL PAGE IS
OF POOR QUALITY

1015 F 90	
1. TITLE	WIND TURBINE GENERATOR
2. DATE	10/15/90
3. DRAWN BY	
4. CHECKED BY	
5. APPROVED BY	
6. PARTS LIST	
7. MATERIALS	
8. WEIGHT	
9. VOLUME	
10. QUANTITY	
11. PRICE	
12. COMMENTS	
13. REVISIONS	
14. SCALE	
15. SHEET NO.	
16. TOTAL SHEETS	
17. PROJECT NO.	
18. DRAWING NO.	
19. REV. NO.	
20. DATE	
21. BY	
22. CHECKED BY	
23. APPROVED BY	
24. TITLE	WIND TURBINE GENERATOR
25. DATE	10/15/90
26. DRAWN BY	
27. CHECKED BY	
28. APPROVED BY	
29. PARTS LIST	
30. MATERIALS	
31. WEIGHT	
32. VOLUME	
33. QUANTITY	
34. PRICE	
35. COMMENTS	
36. REVISIONS	
37. SCALE	
38. SHEET NO.	
39. TOTAL SHEETS	
40. PROJECT NO.	
41. DRAWING NO.	
42. REV. NO.	
43. DATE	
44. BY	
45. CHECKED BY	
46. APPROVED BY	

1015 F 91

PROJECT		DATE	
NO.	DESCRIPTION	DATE	BY
1	DESIGN	10/15/91	J. J. J.
2	CHECK		
3	ISSUE		
4	REVISION		
5	REVISION		
6	REVISION		
7	REVISION		
8	REVISION		
9	REVISION		
10	REVISION		

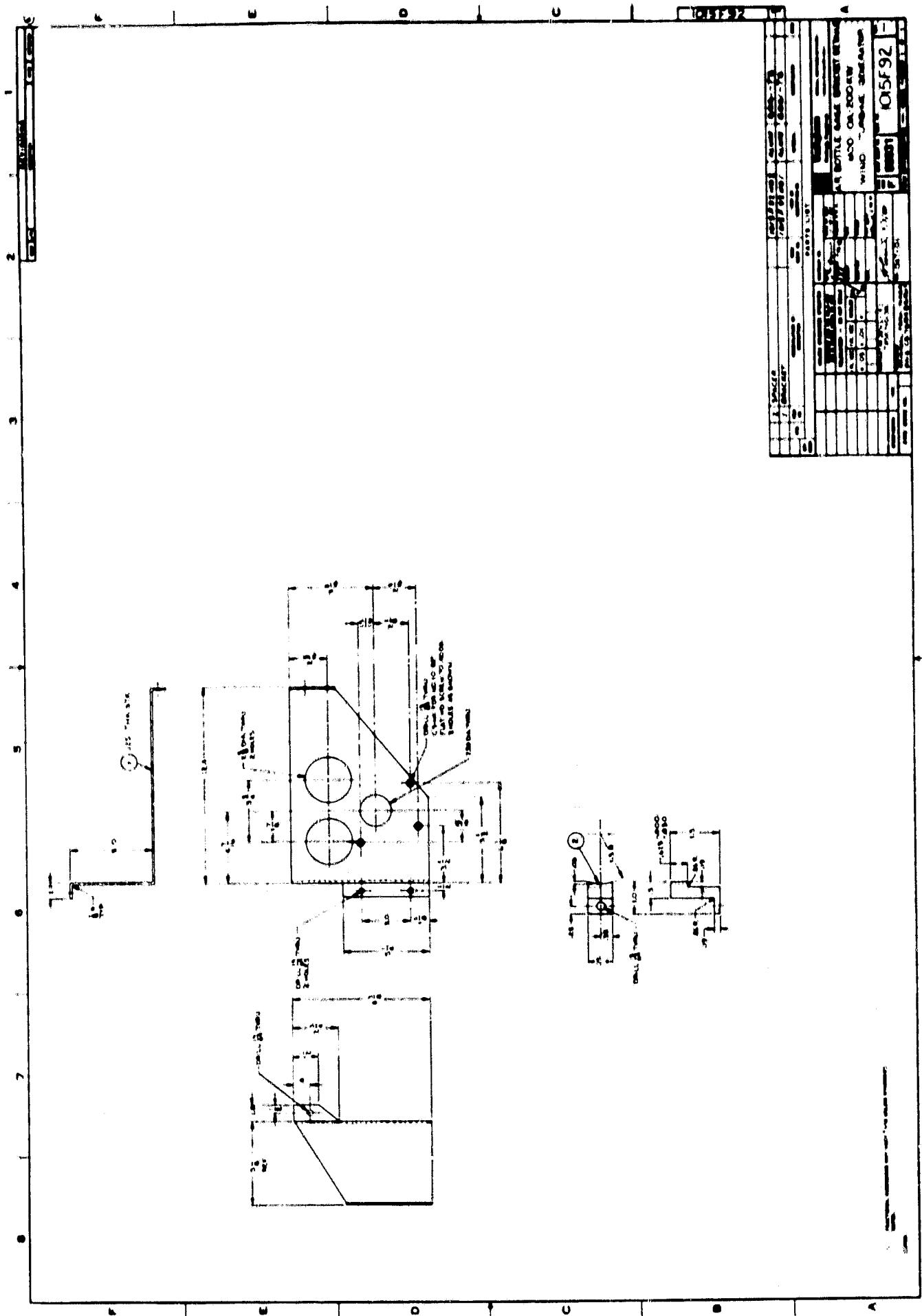
PROJECT: 1015 F 91
 DESIGNER: J. J. J.
 CHECKER: M. J. J.
 DATE: 10/15/91



1 2 3 4 5 6 7 8

A B C D E F

1. ALL DIMENSIONS ARE IN FEET AND INCHES.
 2. UNLESS OTHERWISE NOTED, WALLS ARE 8" THICK.
 3. ALL WALLS ARE TO BE FINISHED WITH 5/8" PLASTER OVER LATH AND GYPSUM BOARD.



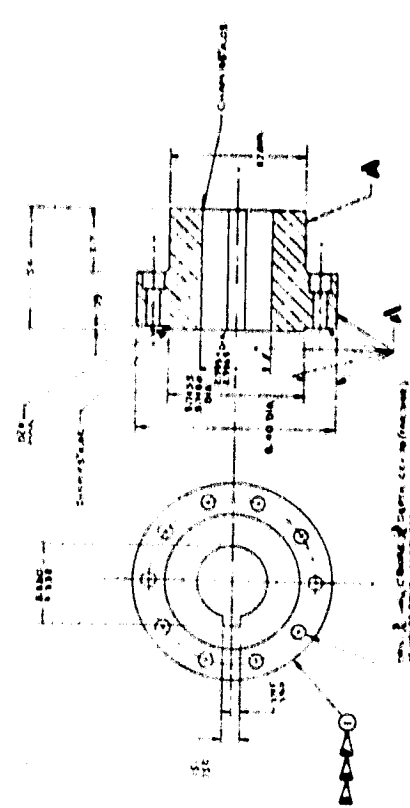
PROJECT NO. 01592		DATE 05-15-52	
DRAWN BY [Name]		CHECKED BY [Name]	
SCALE 1/4" = 1'-0"		SHEET NO. 1 OF 1	
ALL BOTTLE LABELS SUBJECT TO 400 CALIFORNIA WIND - JAMES B. BAKER			
PROJECT NO. 01592		DATE 05-15-52	

015F33

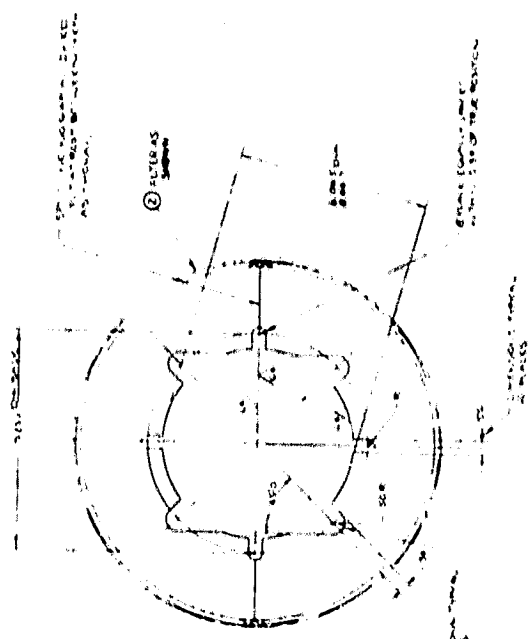
PARTS LIST	
No.	Description
1	CURVED PLATE
2	WIND TURBINE GENERATOR

DETAILS	
NO.	DESCRIPTION
1	WIND TURBINE GENERATOR
2	WIND TURBINE GENERATOR

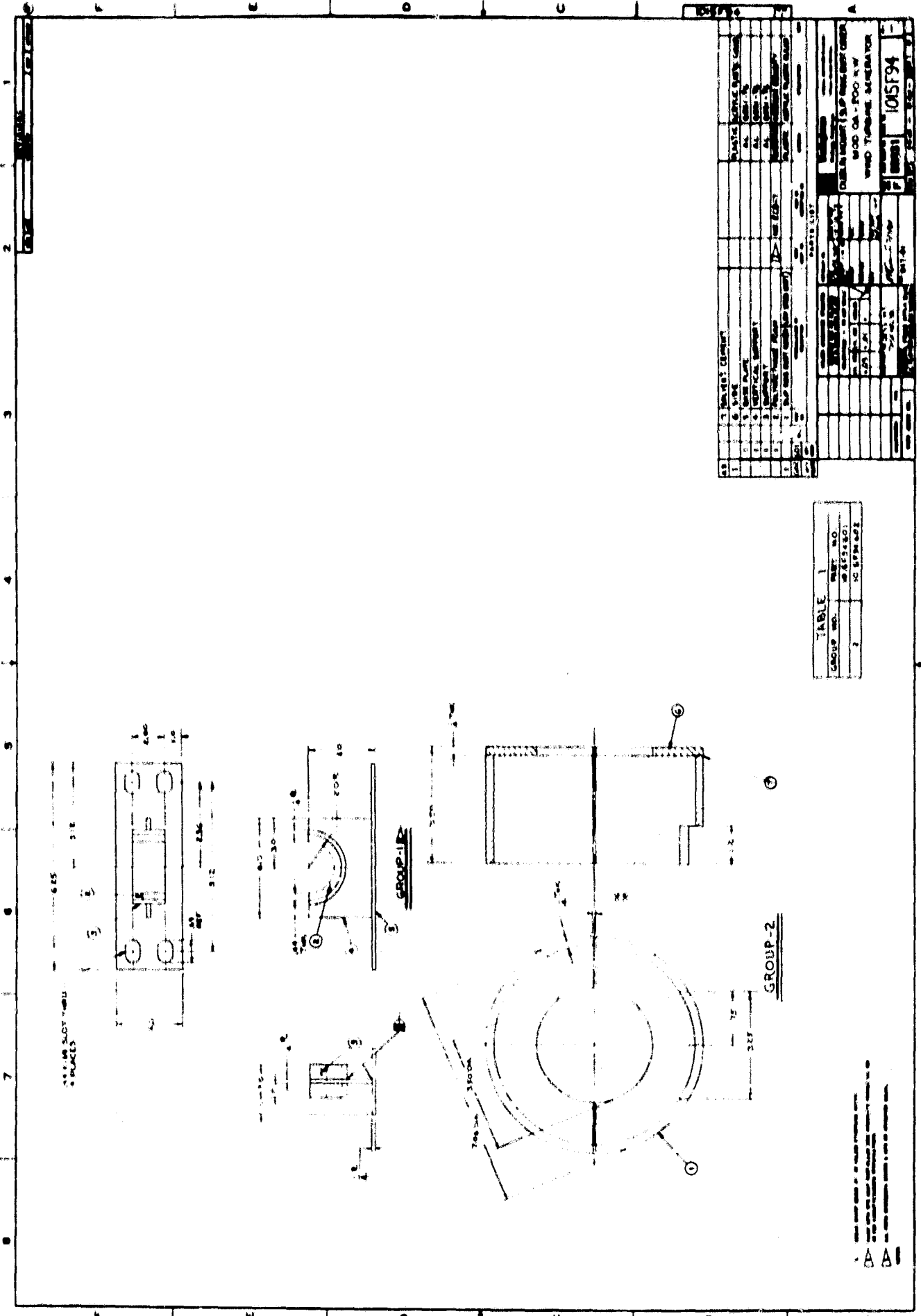
WIND TURBINE GENERATOR
WIND TURBINE GENERATOR



SEE DRAWING OF CURVED PLATE FOR DIMENSIONS AND DETAIL. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.



WIND TURBINE GENERATOR
WIND TURBINE GENERATOR

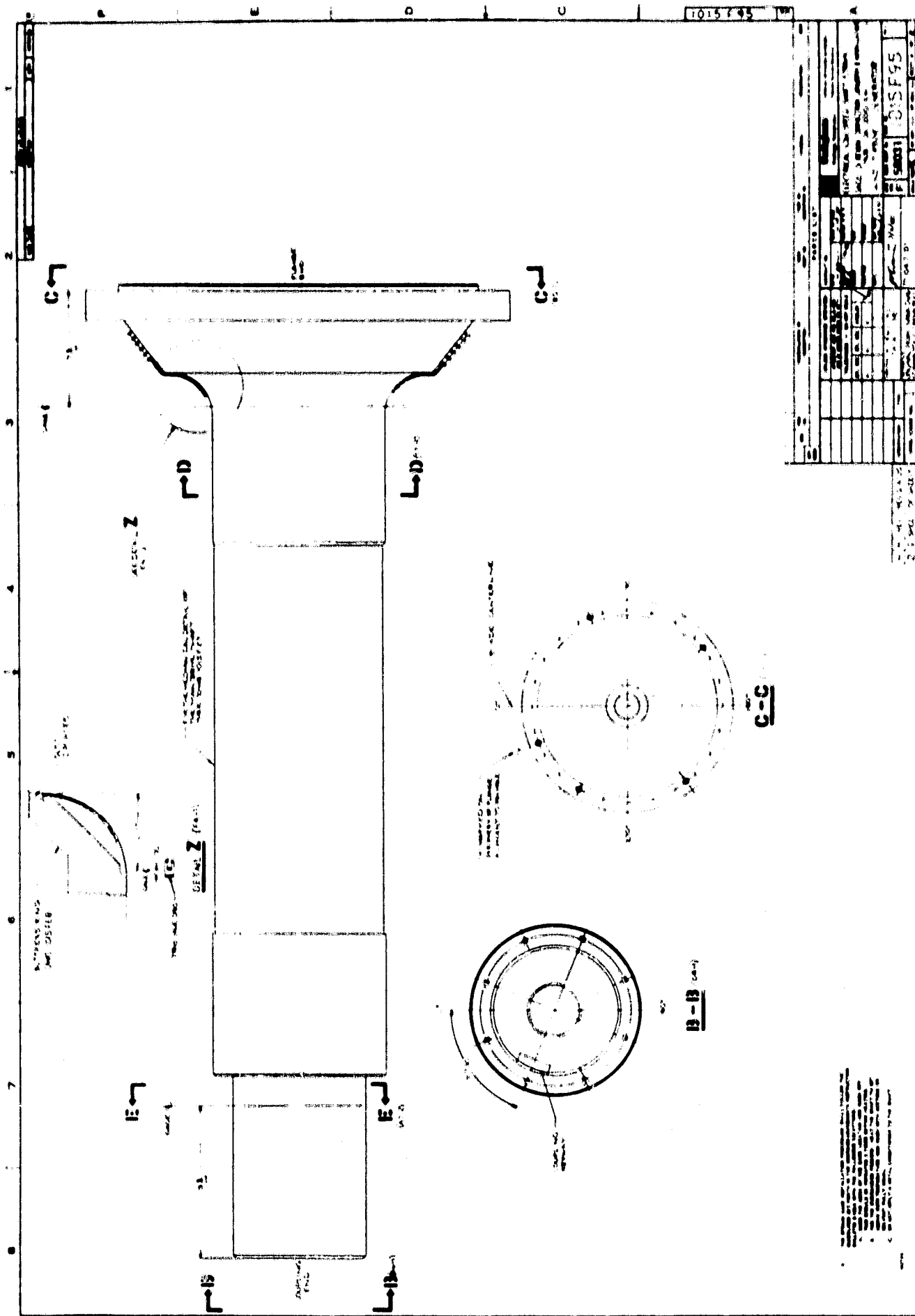


GROUP NO.	TABLE NO.	REV. NO.
1	1	1
2	2	1

TABLE NO.	REV. NO.	DATE	BY	CHKD.	APP.
1	1	10/15/94			
2	1				
3	1				
4	1				
5	1				
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9	1				
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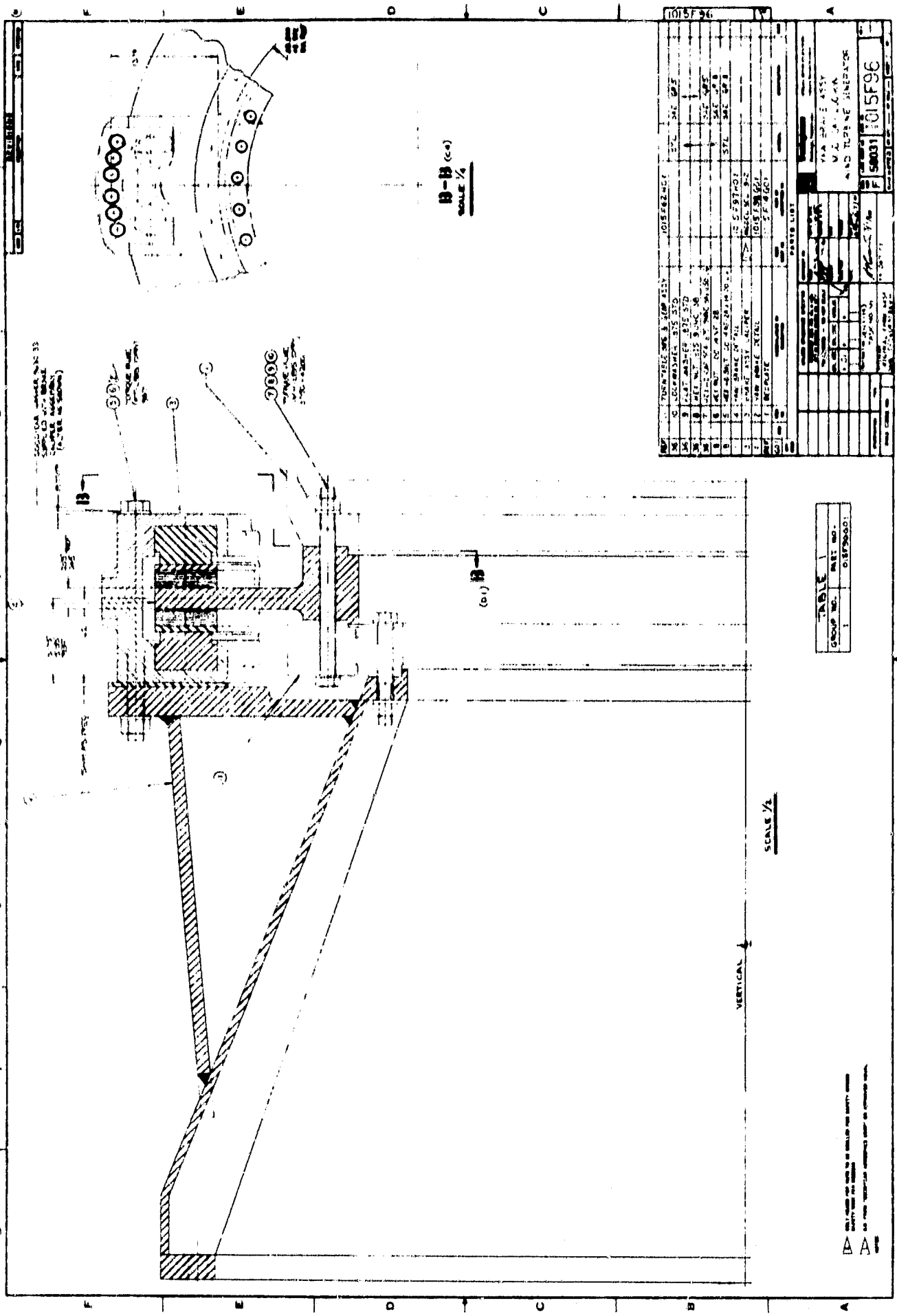
AA

1015 F 45



NO.	DESCRIPTION	DATE	BY	CHECKED
1	DESIGNED			
2	DRAWN			
3	CHECKED			
4	APPROVED			
5	TESTED			
6	RELEASED			
7	REWORKED			
8	REDESIGNED			
9	REWORKED			
10	REDESIGNED			
11	REWORKED			
12	REDESIGNED			
13	REWORKED			
14	REDESIGNED			
15	REWORKED			
16	REDESIGNED			
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41	REWORKED			
42	REDESIGNED			
43	REWORKED			
44	REDESIGNED			
45	REWORKED			
46	REDESIGNED			
47	REWORKED			
48	REDESIGNED			
49	REWORKED			
50	REDESIGNED			

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13-13 (c-a)
SCALE 1/4

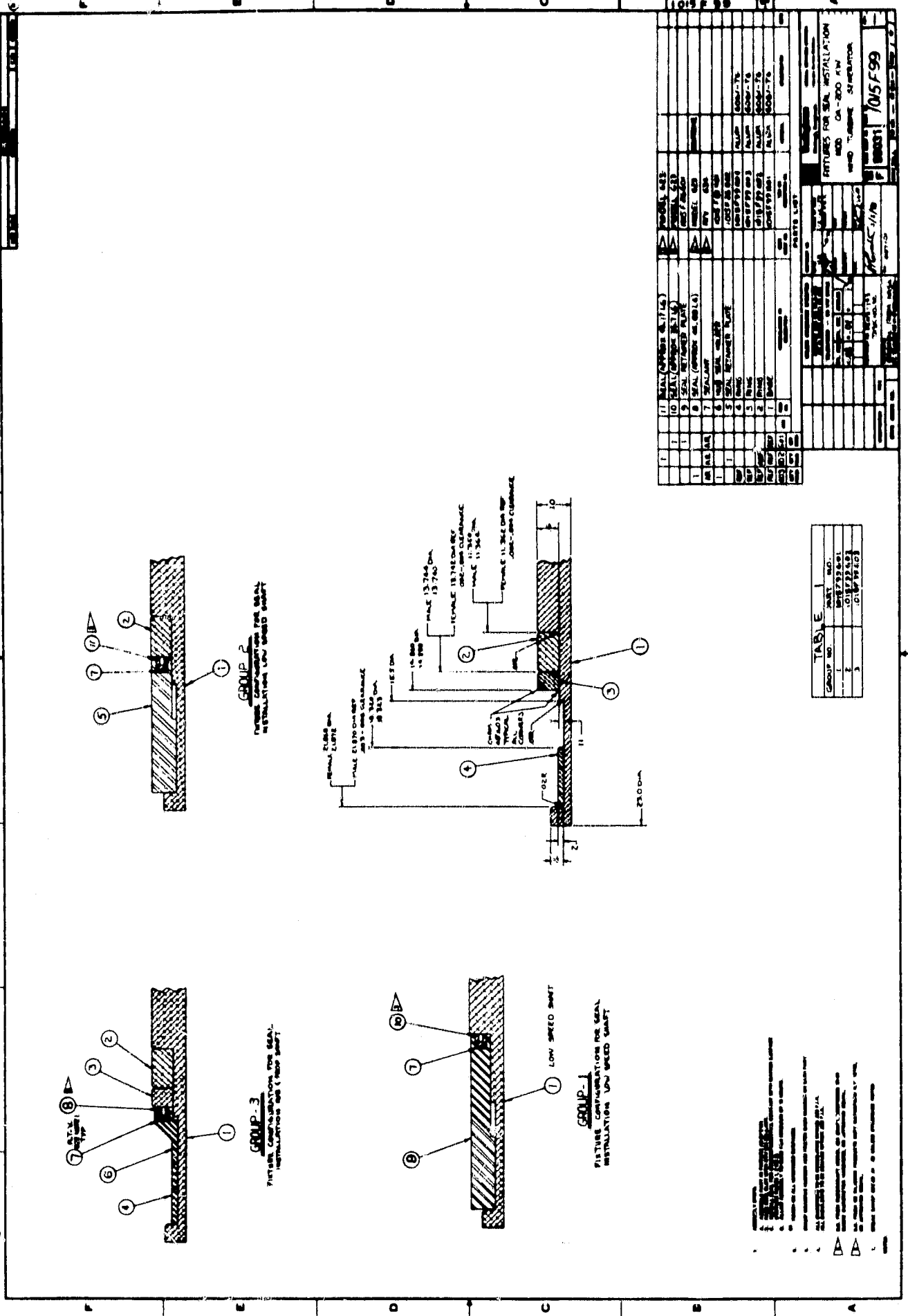
SCALE 1/4

VERTICAL

TABLE	REV. NO.	DISP. NO.
1		

PARTS LIST		1015F96	
NO.	QUANTITY	DESCRIPTION	UNIT
1	1	COVER PLATE	PCB
2	1	SCREW	PCB
3	1	SCREW	PCB
4	1	SCREW	PCB
5	1	SCREW	PCB
6	1	SCREW	PCB
7	1	SCREW	PCB
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99	1	SCREW	PCB
100	1	SCREW	PCB

1015F96
M/A J. JACKSON
AND TUPENE SINGH
F 58031 1015F96



105F99

NO	DESCRIPTION	QTY	MATERIAL	REMARKS
11	SEAL (GROUP 1)	1	ALUMINUM	
10	SEAL (GROUP 2)	1	ALUMINUM	
9	SEAL (GROUP 3)	1	ALUMINUM	
8	SEAL (GROUP 4)	1	ALUMINUM	
7	SEAL (GROUP 5)	1	ALUMINUM	
6	SEAL (GROUP 6)	1	ALUMINUM	
5	SEAL (GROUP 7)	1	ALUMINUM	
4	SEAL (GROUP 8)	1	ALUMINUM	
3	SEAL (GROUP 9)	1	ALUMINUM	
2	SEAL (GROUP 10)	1	ALUMINUM	
1	SEAL (GROUP 11)	1	ALUMINUM	

PARTS LIST

FITURES FOR SEAL INSTALLATION
REQD ON -200 RPM
REQD TURNING DIRECTION

DATE: 10/5/99

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2. THE COMPANY ACCEPTS NO LIABILITY FOR DAMAGES OF ANY KIND, INCLUDING CONSEQUENTIAL DAMAGES, ARISING FROM THE USE OF THIS DRAWING OR THE PRODUCTS THEREOF.

3. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

4. FINISHES ARE UNLESS OTHERWISE SPECIFIED: FINE CHAMFER, MILL FINISH.

5. SURFACE TOLERANCES ARE: UNLESS OTHERWISE SPECIFIED: SURFACE 10.0 MILS, HOLES 5.0 MILS.

6. DIMENSIONS TO CENTER UNLESS OTHERWISE SPECIFIED.

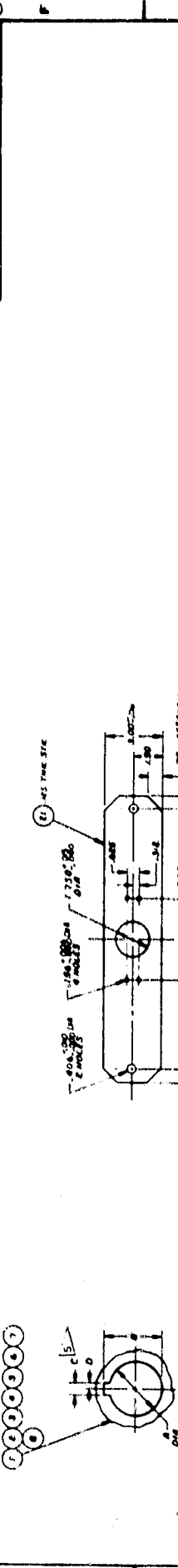
7. DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED.

8. DIMENSIONS TO HOLE UNLESS OTHERWISE SPECIFIED.

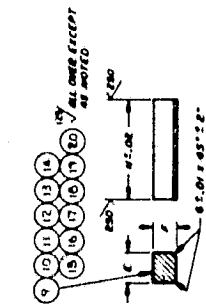
9. DIMENSIONS TO SHOWN UNLESS OTHERWISE SPECIFIED.

10. DIMENSIONS TO CENTER UNLESS OTHERWISE SPECIFIED.

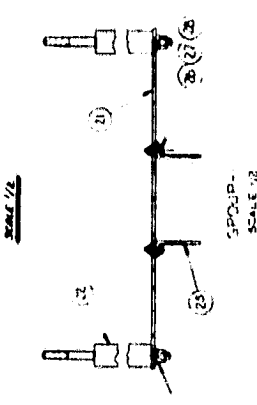
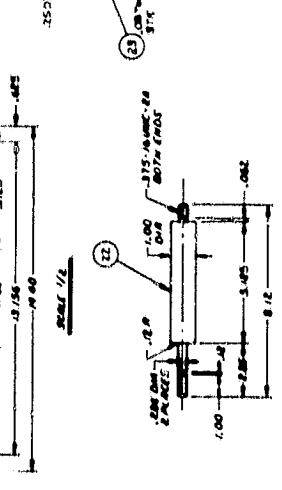
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IT.	A	B	C	D	REMARKS
1	3.77	1.80	3.77	1.80	FIELD
2	3.77	1.80	3.77	1.80	FIELD
3	3.77	1.80	3.77	1.80	FIELD
4	3.77	1.80	3.77	1.80	FIELD
5	3.77	1.80	3.77	1.80	FIELD
6	3.77	1.80	3.77	1.80	FIELD
7	3.77	1.80	3.77	1.80	FIELD
8	3.77	1.80	3.77	1.80	FIELD
9	3.77	1.80	3.77	1.80	FIELD
10	3.77	1.80	3.77	1.80	FIELD
11	3.77	1.80	3.77	1.80	FIELD
12	3.77	1.80	3.77	1.80	FIELD
13	3.77	1.80	3.77	1.80	FIELD
14	3.77	1.80	3.77	1.80	FIELD
15	3.77	1.80	3.77	1.80	FIELD
16	3.77	1.80	3.77	1.80	FIELD
17	3.77	1.80	3.77	1.80	FIELD
18	3.77	1.80	3.77	1.80	FIELD
19	3.77	1.80	3.77	1.80	FIELD
20	3.77	1.80	3.77	1.80	FIELD



IT.	E	F	G	H	REMARKS
1	2.00	1.50	2.00	1.50	SHAFT
2	2.00	1.50	2.00	1.50	SHAFT
3	2.00	1.50	2.00	1.50	SHAFT
4	2.00	1.50	2.00	1.50	SHAFT
5	2.00	1.50	2.00	1.50	SHAFT
6	2.00	1.50	2.00	1.50	SHAFT
7	2.00	1.50	2.00	1.50	SHAFT
8	2.00	1.50	2.00	1.50	SHAFT
9	2.00	1.50	2.00	1.50	SHAFT
10	2.00	1.50	2.00	1.50	SHAFT
11	2.00	1.50	2.00	1.50	SHAFT
12	2.00	1.50	2.00	1.50	SHAFT
13	2.00	1.50	2.00	1.50	SHAFT
14	2.00	1.50	2.00	1.50	SHAFT
15	2.00	1.50	2.00	1.50	SHAFT
16	2.00	1.50	2.00	1.50	SHAFT
17	2.00	1.50	2.00	1.50	SHAFT
18	2.00	1.50	2.00	1.50	SHAFT
19	2.00	1.50	2.00	1.50	SHAFT
20	2.00	1.50	2.00	1.50	SHAFT



IT.	ITEM	QTY	DESCRIPTION	UNIT	REMARKS
1	1017F02	1	GENERATOR TACH-MOUNT ASSY	ASSEMBLY	
2	1017F02	1	GENERATOR TACH-MOUNT ASSY	ASSEMBLY	
3	1017F02	1	GENERATOR TACH-MOUNT ASSY	ASSEMBLY	
4	1017F02	1	GENERATOR TACH-MOUNT ASSY	ASSEMBLY	
5	1017F02	1	GENERATOR TACH-MOUNT ASSY	ASSEMBLY	
6	1017F02	1	GENERATOR TACH-MOUNT ASSY	ASSEMBLY	
7	1017F02	1	GENERATOR TACH-MOUNT ASSY	ASSEMBLY	
8	1017F02	1	GENERATOR TACH-MOUNT ASSY	ASSEMBLY	
9	1017F02	1	GENERATOR TACH-MOUNT ASSY	ASSEMBLY	
10	1017F02	1	GENERATOR TACH-MOUNT ASSY	ASSEMBLY	
11	1017F02	1	GENERATOR TACH-MOUNT ASSY	ASSEMBLY	
12	1017F02	1	GENERATOR TACH-MOUNT ASSY	ASSEMBLY	
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18	1017F02	1	GENERATOR TACH-MOUNT ASSY	ASSEMBLY	
19	1017F02	1	GENERATOR TACH-MOUNT ASSY	ASSEMBLY	
20	1017F02	1	GENERATOR TACH-MOUNT ASSY	ASSEMBLY	

1017F02

GENERATOR TACH-MOUNT ASSY
WITH KEYS AND DETAILS
MOO CA-2004-W
WIND TURBINE GENERATOR

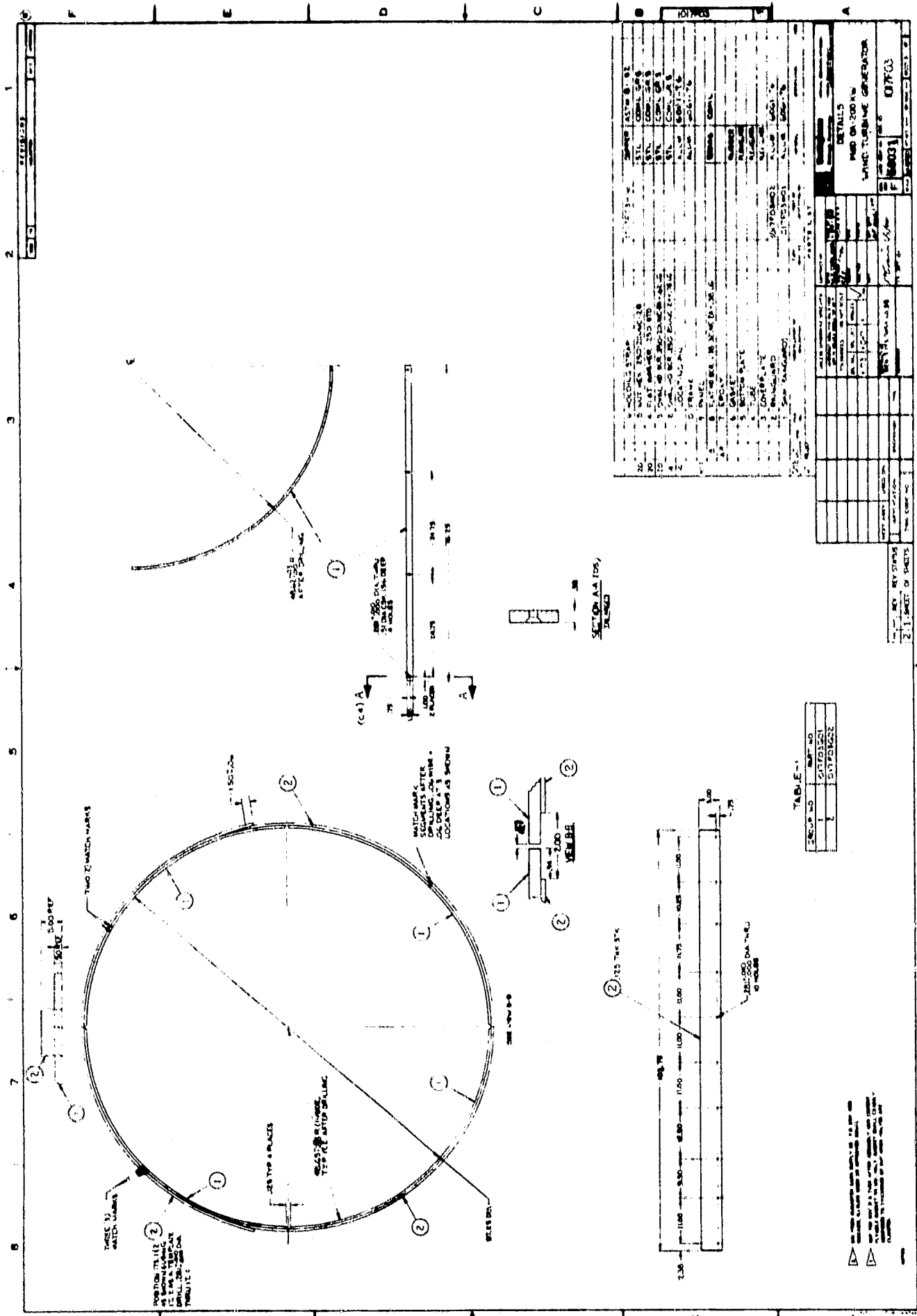
1017F02

GROUP NO. 1
PART NO. 1017F02

DATE: 10/17/02

SCALE: 1/2

1017F02



SECTION LIST

NO.	SECTION	SCALE	DATE
1	SECTION A-A	1:1	
2	SECTION B-B	1:1	
3	SECTION C-C	1:1	
4	SECTION D-D	1:1	
5	SECTION E-E	1:1	
6	SECTION F-F	1:1	
7	SECTION G-G	1:1	
8	SECTION H-H	1:1	
9	SECTION I-I	1:1	
10	SECTION J-J	1:1	
11	SECTION K-K	1:1	
12	SECTION L-L	1:1	
13	SECTION M-M	1:1	
14	SECTION N-N	1:1	
15	SECTION O-O	1:1	
16	SECTION P-P	1:1	
17	SECTION Q-Q	1:1	
18	SECTION R-R	1:1	
19	SECTION S-S	1:1	
20	SECTION T-T	1:1	
21	SECTION U-U	1:1	
22	SECTION V-V	1:1	
23	SECTION W-W	1:1	
24	SECTION X-X	1:1	
25	SECTION Y-Y	1:1	
26	SECTION Z-Z	1:1	
27	SECTION AA-AA	1:1	
28	SECTION BB-BB	1:1	
29	SECTION CC-CC	1:1	
30	SECTION DD-DD	1:1	
31	SECTION EE-EE	1:1	
32	SECTION FF-FF	1:1	
33	SECTION GG-GG	1:1	
34	SECTION HH-HH	1:1	
35	SECTION II-II	1:1	
36	SECTION JJ-JJ	1:1	
37	SECTION KK-KK	1:1	
38	SECTION LL-LL	1:1	
39	SECTION MM-MM	1:1	
40	SECTION NN-NN	1:1	
41	SECTION OO-OO	1:1	
42	SECTION PP-PP	1:1	
43	SECTION QQ-QQ	1:1	
44	SECTION RR-RR	1:1	
45	SECTION SS-SS	1:1	
46	SECTION TT-TT	1:1	
47	SECTION UU-UU	1:1	
48	SECTION VV-VV	1:1	
49	SECTION WW-WW	1:1	
50	SECTION XX-XX	1:1	
51	SECTION YY-YY	1:1	
52	SECTION ZZ-ZZ	1:1	
53	SECTION AA-AA	1:1	
54	SECTION BB-BB	1:1	
55	SECTION CC-CC	1:1	
56	SECTION DD-DD	1:1	
57	SECTION EE-EE	1:1	
58	SECTION FF-FF	1:1	
59	SECTION GG-GG	1:1	
60	SECTION HH-HH	1:1	
61	SECTION II-II	1:1	
62	SECTION JJ-JJ	1:1	
63	SECTION KK-KK	1:1	
64	SECTION LL-LL	1:1	
65	SECTION MM-MM	1:1	
66	SECTION NN-NN	1:1	
67	SECTION OO-OO	1:1	
68	SECTION PP-PP	1:1	
69	SECTION QQ-QQ	1:1	
70	SECTION RR-RR	1:1	
71	SECTION SS-SS	1:1	
72	SECTION TT-TT	1:1	
73	SECTION UU-UU	1:1	
74	SECTION VV-VV	1:1	
75	SECTION WW-WW	1:1	
76	SECTION XX-XX	1:1	
77	SECTION YY-YY	1:1	
78	SECTION ZZ-ZZ	1:1	
79	SECTION AA-AA	1:1	
80	SECTION BB-BB	1:1	
81	SECTION CC-CC	1:1	
82	SECTION DD-DD	1:1	
83	SECTION EE-EE	1:1	
84	SECTION FF-FF	1:1	
85	SECTION GG-GG	1:1	
86	SECTION HH-HH	1:1	
87	SECTION II-II	1:1	
88	SECTION JJ-JJ	1:1	
89	SECTION KK-KK	1:1	
90	SECTION LL-LL	1:1	
91	SECTION MM-MM	1:1	
92	SECTION NN-NN	1:1	
93	SECTION OO-OO	1:1	
94	SECTION PP-PP	1:1	
95	SECTION QQ-QQ	1:1	
96	SECTION RR-RR	1:1	
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100	SECTION VV-VV	1:1	

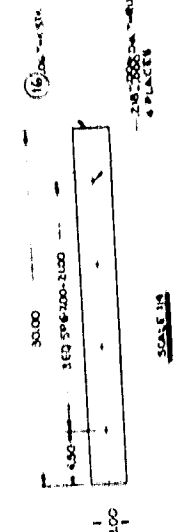
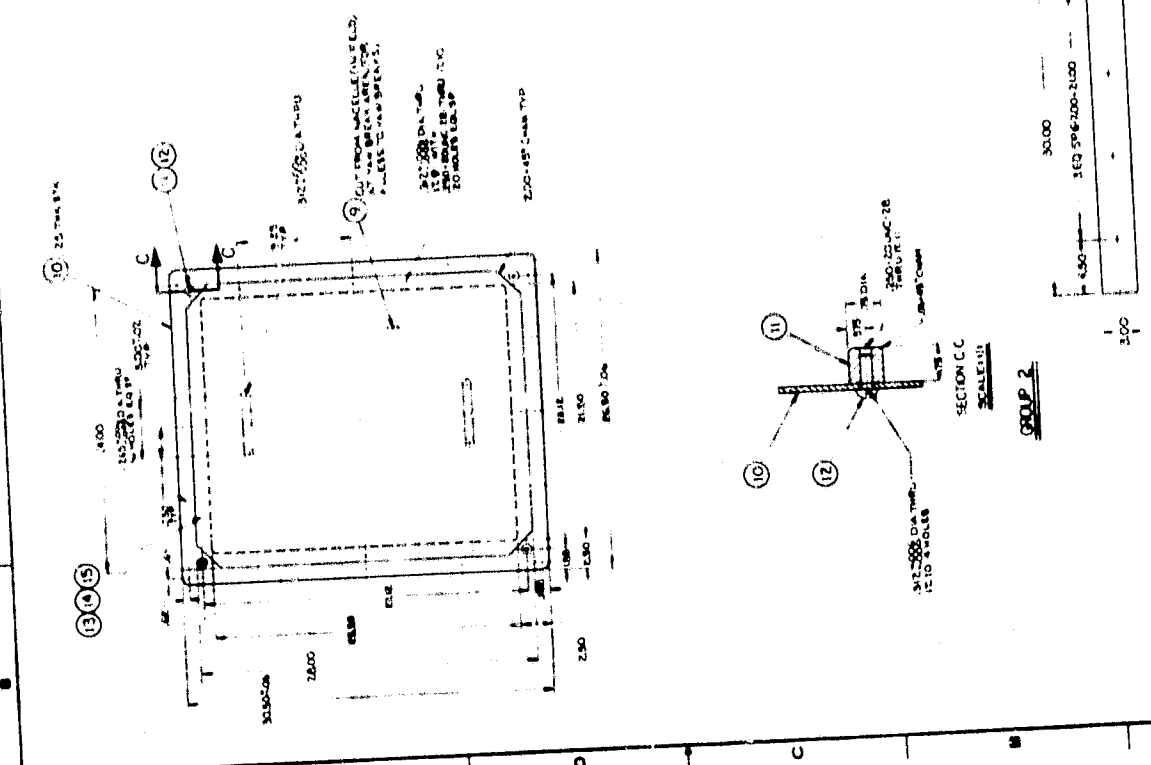
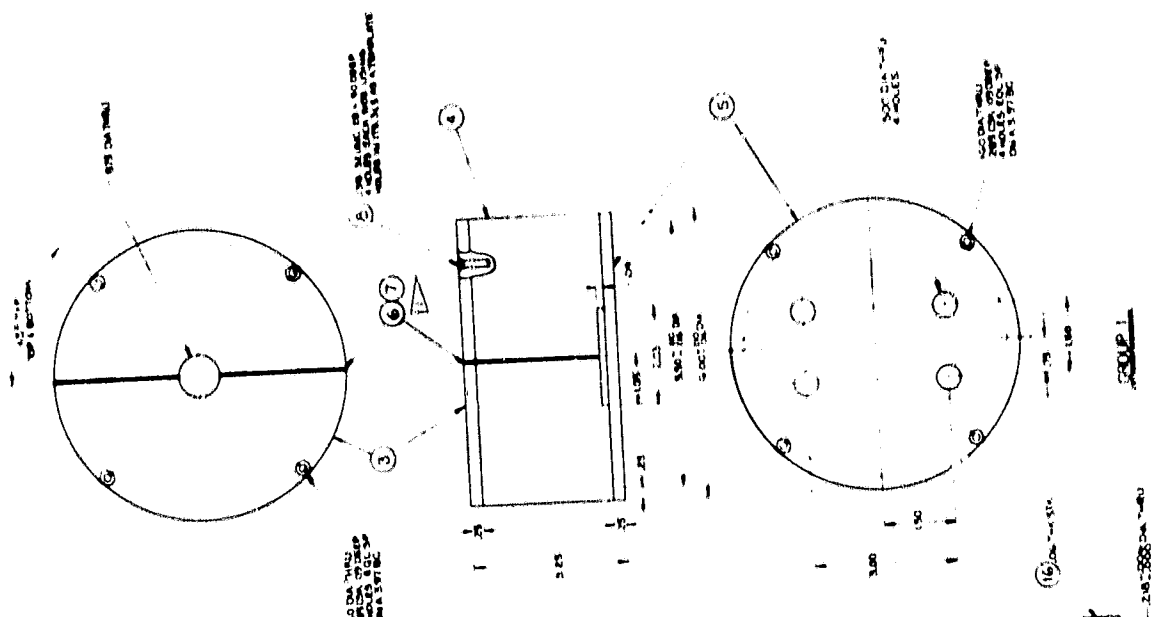
TABLE 1

SHEET NO.	TOTAL SHEETS
1	1

REVISIONS

NO.	DATE	DESCRIPTION

ORIGINAL PAGE IS
OF POOR QUALITY



SCALE 1:1

SCALE 1:2

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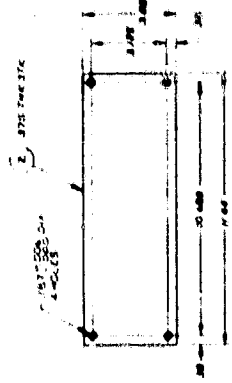
SCALE 1:1

SCALE 1:2

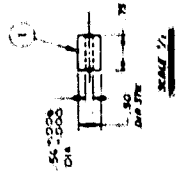
SCALE 1:1

SCALE 1:2

1 2 3 4 5 6 7 8



SCALE 1/2



SCALE 1/2

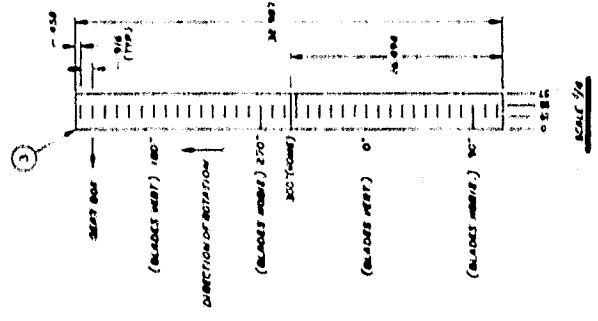
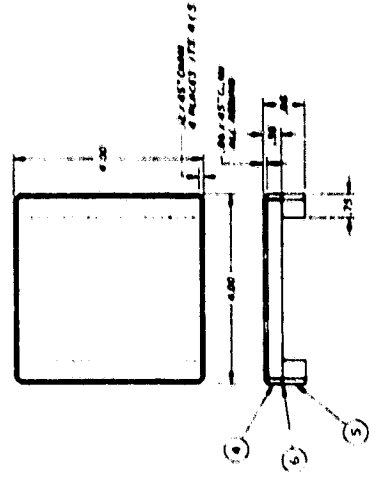


TABLE-1

GROUP NO.	REV. NO.
1	1 (ORIGINAL)

1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
 2. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 3. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.



GROUP 1
SCALE 1/2

REV.	DATE	BY	CHKD.
1	10/17/64	W. J.
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DETAILS	
GROUP NO.	1017F04
REV. NO.	1
DATE	10/17/64
BY	W. J. ...
CHKD.	...
TITLE	WIND TURBINE GENERATOR
PROJECT	...
DRAWING NO.	...
SCALE	...
SHEET NO.	...
TOTAL SHEETS	...

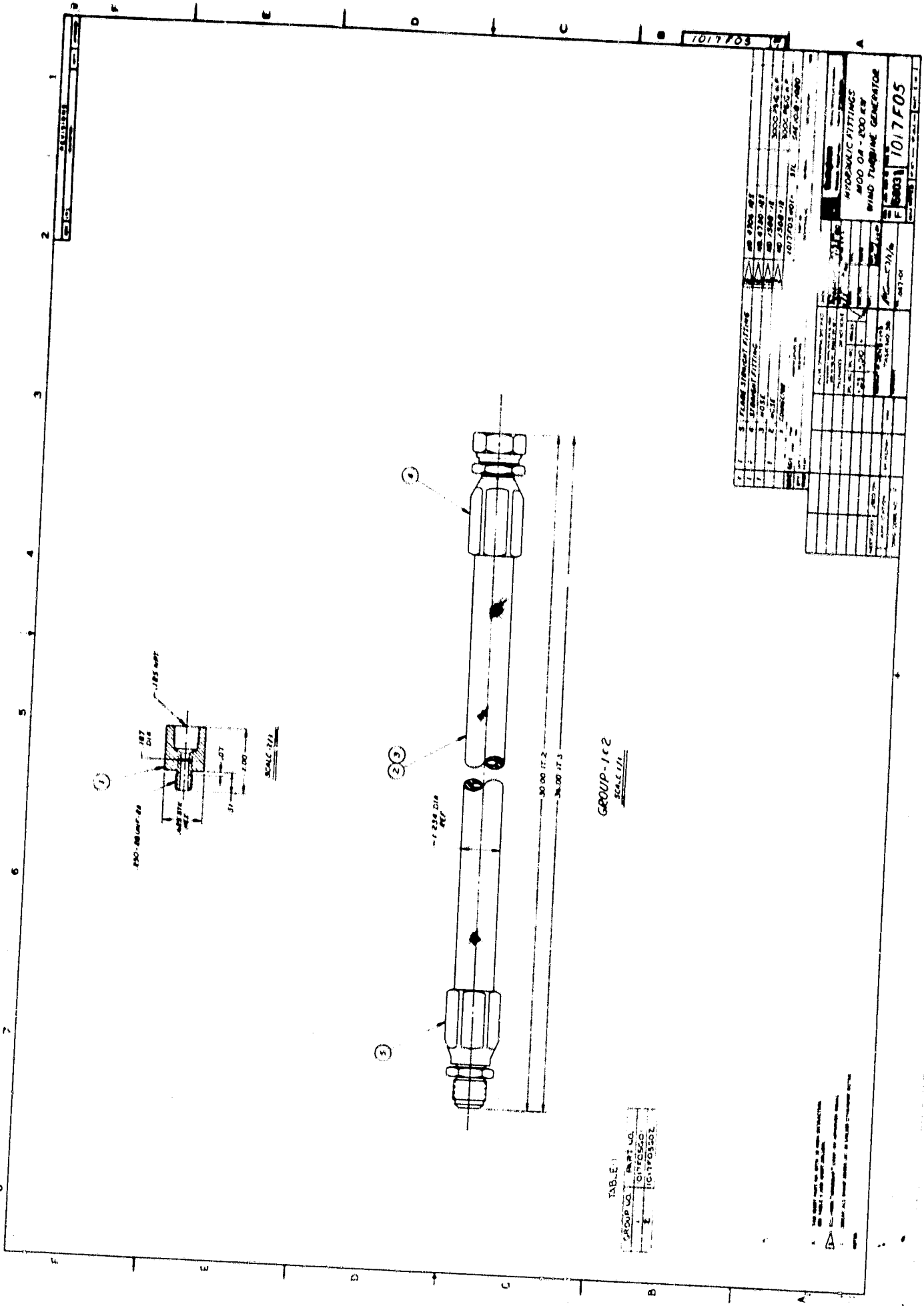


TABLE 1

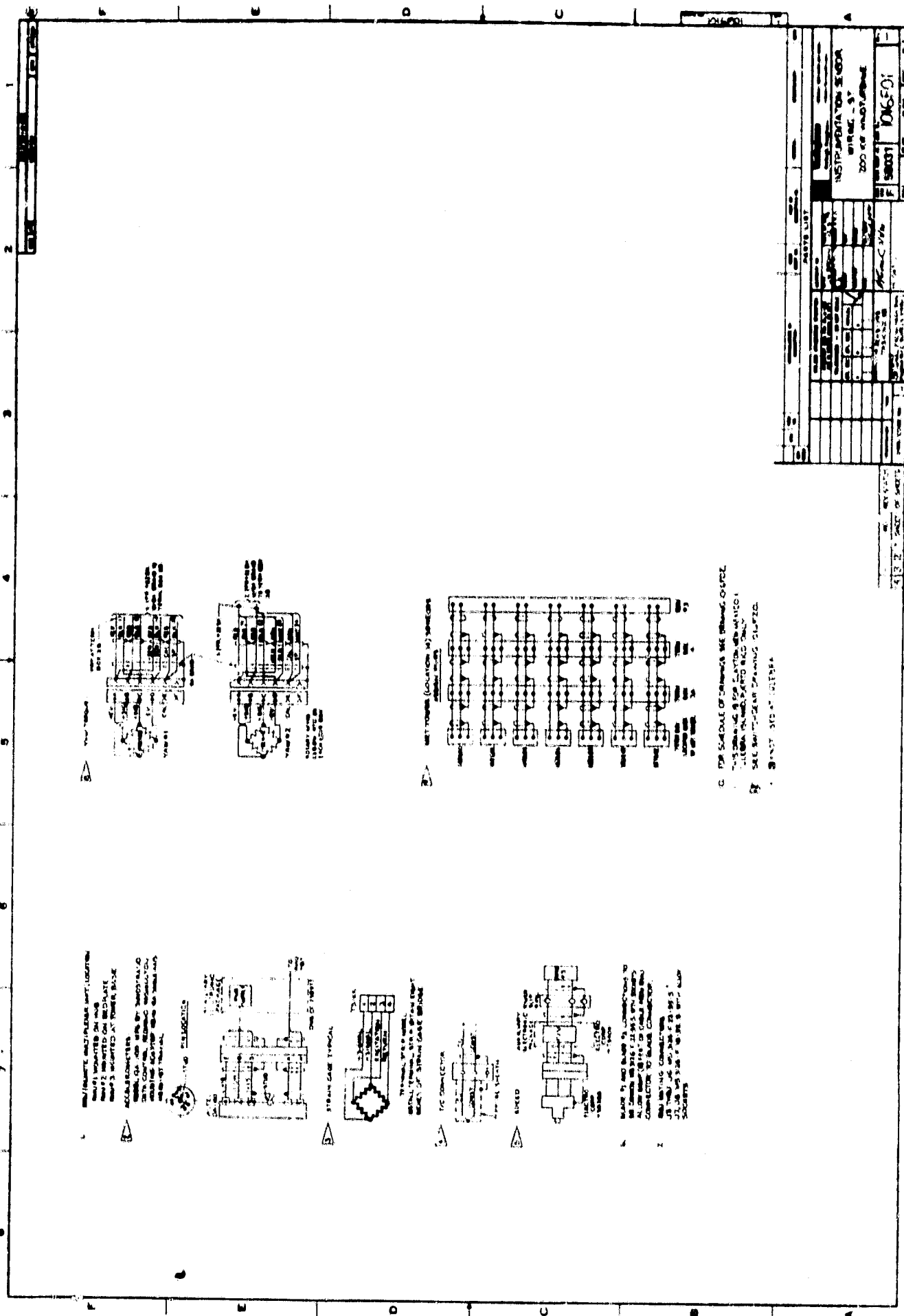
GROUP NO.	1
PART NO.	1017F05
REV.	1

1017F05

1	3	FLANGE THROUGHT FITTINGS	3000 P.S.I. ±
1	4	SPRING FITTINGS	3000 P.S.I. ±
1	5	W/SE	3000 P.S.I. ±
1	6	W/SE	3000 P.S.I. ±
1	7	W/SE	3000 P.S.I. ±
1	8	W/SE	3000 P.S.I. ±
1	9	W/SE	3000 P.S.I. ±
1	10	W/SE	3000 P.S.I. ±
1	11	W/SE	3000 P.S.I. ±
1	12	W/SE	3000 P.S.I. ±
1	13	W/SE	3000 P.S.I. ±
1	14	W/SE	3000 P.S.I. ±
1	15	W/SE	3000 P.S.I. ±
1	16	W/SE	3000 P.S.I. ±
1	17	W/SE	3000 P.S.I. ±
1	18	W/SE	3000 P.S.I. ±
1	19	W/SE	3000 P.S.I. ±
1	20	W/SE	3000 P.S.I. ±
1	21	W/SE	3000 P.S.I. ±
1	22	W/SE	3000 P.S.I. ±
1	23	W/SE	3000 P.S.I. ±
1	24	W/SE	3000 P.S.I. ±
1	25	W/SE	3000 P.S.I. ±
1	26	W/SE	3000 P.S.I. ±
1	27	W/SE	3000 P.S.I. ±
1	28	W/SE	3000 P.S.I. ±
1	29	W/SE	3000 P.S.I. ±
1	30	W/SE	3000 P.S.I. ±
1	31	W/SE	3000 P.S.I. ±
1	32	W/SE	3000 P.S.I. ±
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1	40	W/SE	3000 P.S.I. ±
1	41	W/SE	3000 P.S.I. ±
1	42	W/SE	3000 P.S.I. ±
1	43	W/SE	3000 P.S.I. ±
1	44	W/SE	3000 P.S.I. ±
1	45	W/SE	3000 P.S.I. ±
1	46	W/SE	3000 P.S.I. ±
1	47	W/SE	3000 P.S.I. ±
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1	49	W/SE	3000 P.S.I. ±
1	50	W/SE	3000 P.S.I. ±
1	51	W/SE	3000 P.S.I. ±
1	52	W/SE	3000 P.S.I. ±
1	53	W/SE	3000 P.S.I. ±
1	54	W/SE	3000 P.S.I. ±
1	55	W/SE	3000 P.S.I. ±
1	56	W/SE	3000 P.S.I. ±
1	57	W/SE	3000 P.S.I. ±
1	58	W/SE	3000 P.S.I. ±
1	59	W/SE	3000 P.S.I. ±
1	60	W/SE	3000 P.S.I. ±
1	61	W/SE	3000 P.S.I. ±
1	62	W/SE	3000 P.S.I. ±
1	63	W/SE	3000 P.S.I. ±
1	64	W/SE	3000 P.S.I. ±
1	65	W/SE	3000 P.S.I. ±
1	66	W/SE	3000 P.S.I. ±
1	67	W/SE	3000 P.S.I. ±
1	68	W/SE	3000 P.S.I. ±
1	69	W/SE	3000 P.S.I. ±
1	70	W/SE	3000 P.S.I. ±
1	71	W/SE	3000 P.S.I. ±
1	72	W/SE	3000 P.S.I. ±
1	73	W/SE	3000 P.S.I. ±
1	74	W/SE	3000 P.S.I. ±
1	75	W/SE	3000 P.S.I. ±
1	76	W/SE	3000 P.S.I. ±
1	77	W/SE	3000 P.S.I. ±
1	78	W/SE	3000 P.S.I. ±
1	79	W/SE	3000 P.S.I. ±
1	80	W/SE	3000 P.S.I. ±
1	81	W/SE	3000 P.S.I. ±
1	82	W/SE	3000 P.S.I. ±
1	83	W/SE	3000 P.S.I. ±
1	84	W/SE	3000 P.S.I. ±
1	85	W/SE	3000 P.S.I. ±
1	86	W/SE	3000 P.S.I. ±
1	87	W/SE	3000 P.S.I. ±
1	88	W/SE	3000 P.S.I. ±
1	89	W/SE	3000 P.S.I. ±
1	90	W/SE	3000 P.S.I. ±
1	91	W/SE	3000 P.S.I. ±
1	92	W/SE	3000 P.S.I. ±
1	93	W/SE	3000 P.S.I. ±
1	94	W/SE	3000 P.S.I. ±
1	95	W/SE	3000 P.S.I. ±
1	96	W/SE	3000 P.S.I. ±
1	97	W/SE	3000 P.S.I. ±
1	98	W/SE	3000 P.S.I. ±
1	99	W/SE	3000 P.S.I. ±
1	100	W/SE	3000 P.S.I. ±

HYDRAULIC FITTINGS
400 OR - 500 PSI
WIND TURBINE GENERATOR

1017F05



1. ALL TRAYS, MULTIPLES, SUPPORTS, LOCATIONS, AND CONNECTIONS SHALL BE AS SHOWN AND SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:

2. ALL TRAYS SHALL BE INSTALLED AT POWER BASE.

3. ALL TRAYS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:

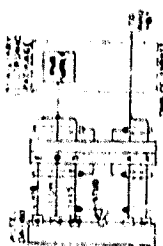
4. ALL TRAYS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:

5. ALL TRAYS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:

6. ALL TRAYS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:

7. ALL TRAYS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:

8. ALL TRAYS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:



STRAIN GAGE TYPICAL



TFC CONNECTOR



SHIELD



CABLE CONNECTION

9. ALL TRAYS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:

10. ALL TRAYS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:

11. ALL TRAYS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:

12. ALL TRAYS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:

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18. ALL TRAYS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:

19. ALL TRAYS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:

20. ALL TRAYS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:

21. THE SCHEDULE OF MATERIALS SEE DRAWING 00001.

22. THE DRAWING IS FOR GENERAL INFORMATION ONLY.

23. ALL MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES.

24. SEE SEPARATE DRAWING 00001.

25. SEE SEPARATE DRAWING 00001.

NO.	DESCRIPTION	QTY.	UNIT	REMARKS
1	TRAY	1	EA	
2	MULTIPLE	1	EA	
3	SUPPORT	1	EA	
4	CONNECTOR	1	EA	
5	SHIELD	1	EA	
6	CABLE	1	EA	
7	CONNECTION	1	EA	
8	STRAIN GAGE	1	EA	
9	TFC CONNECTOR	1	EA	
10	SHIELD	1	EA	
11	CABLE CONNECTION	1	EA	
12	STRAIN GAGE	1	EA	
13	TFC CONNECTOR	1	EA	
14	SHIELD	1	EA	
15	CABLE CONNECTION	1	EA	
16	STRAIN GAGE	1	EA	
17	TFC CONNECTOR	1	EA	
18	SHIELD	1	EA	
19	CABLE CONNECTION	1	EA	
20	STRAIN GAGE	1	EA	
21	TFC CONNECTOR	1	EA	
22	SHIELD	1	EA	
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25	TFC CONNECTOR	1	EA	
26	SHIELD	1	EA	
27	CABLE CONNECTION	1	EA	
28	STRAIN GAGE	1	EA	
29	TFC CONNECTOR	1	EA	
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93	TFC CONNECTOR	1	EA	
94	SHIELD	1	EA	
95	CABLE CONNECTION	1	EA	
96	STRAIN GAGE	1	EA	
97	TFC CONNECTOR	1	EA	
98	SHIELD	1	EA	
99	CABLE CONNECTION	1	EA	
100	STRAIN GAGE	1	EA	

00001

INSTRUMENTATION SYSTEM

WIRING - 37

200 OF 200

198001

00001

0	1	2	3	4	5	6	7	8	9	10
1	100	200	300	400	500	600	700	800	900	1000
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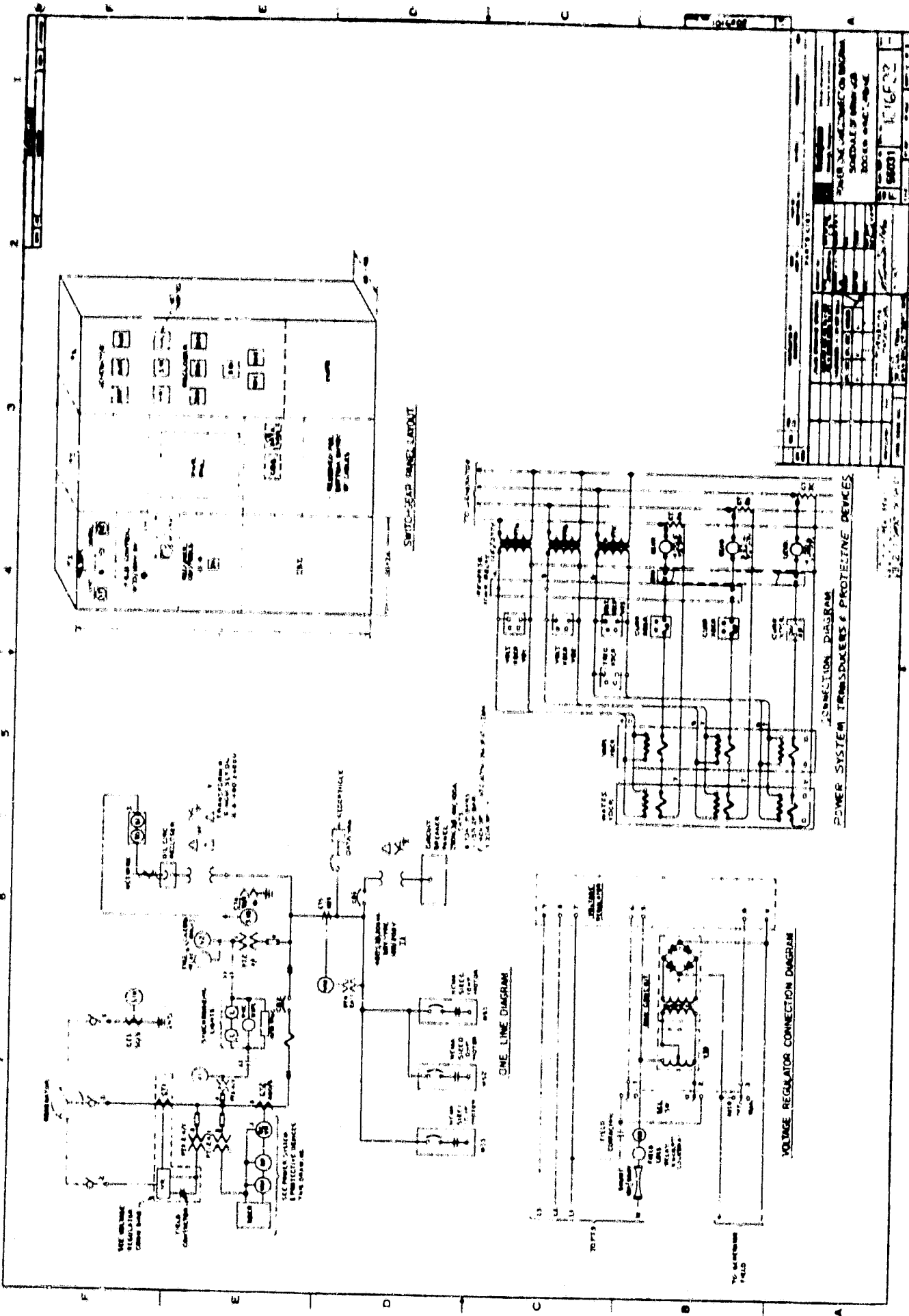
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1016501

MAINTENANCE RECORD
OF FINISH QUALITY

The table is a large grid used for recording maintenance activities. It has approximately 15 columns and 100 rows. The columns are labeled with categories such as 'MECHANICAL', 'ELECTRICAL', and 'PLUMBING'. The rows represent individual maintenance events. Handwritten entries include dates, times, and descriptions of work performed. Symbols like checkmarks (✓) and crosses (X) are used to indicate the status of various items or tasks. Some cells contain numbers, possibly representing counts or measurements.



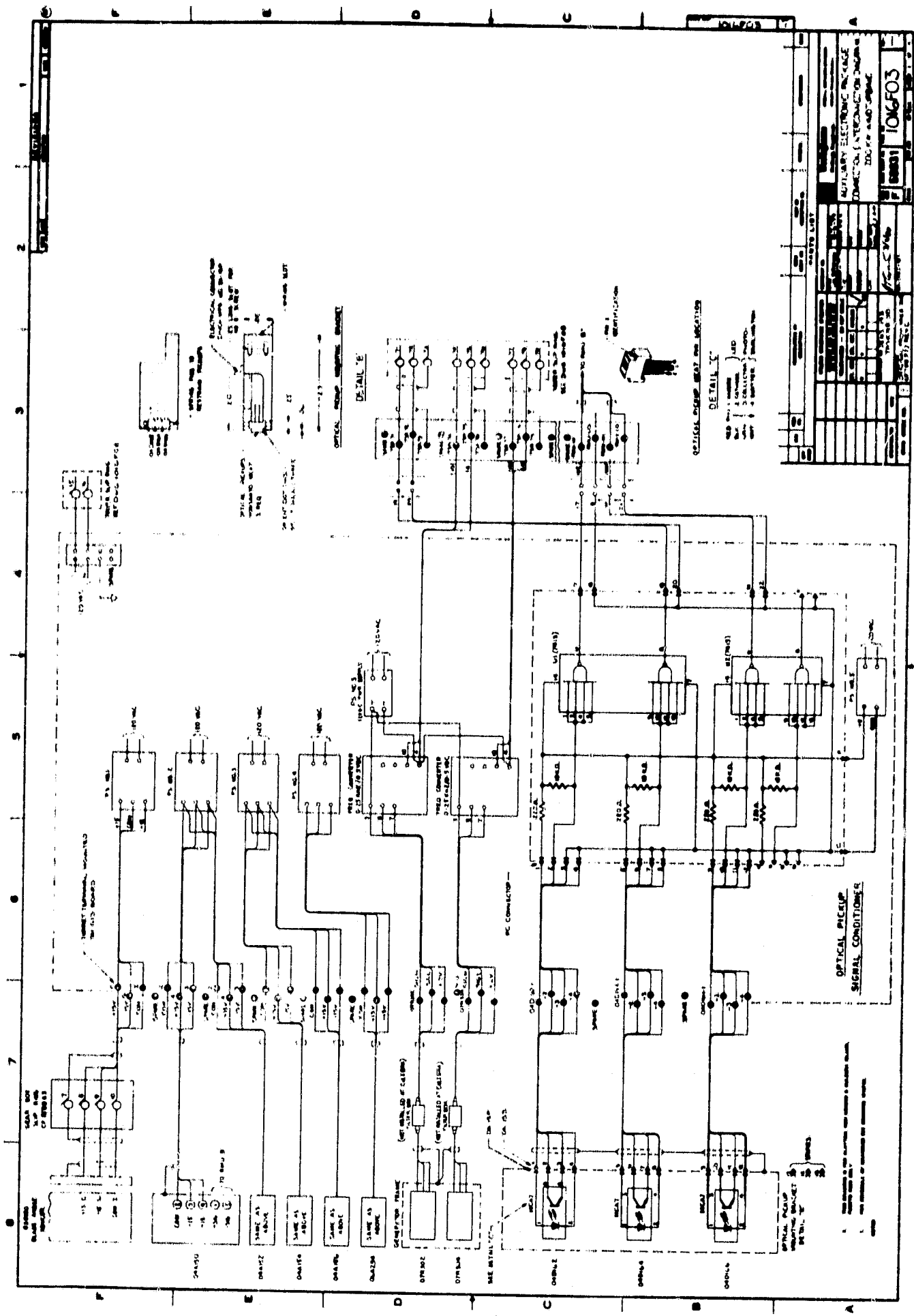
PROJECT NO.	1016502
DATE	10/16/52
DESIGNED BY	W. J. BROWN
CHECKED BY	J. H. BROWN
APPROVED BY	J. H. BROWN
PROJECT TITLE	SWITCHGEAR ASSEMBLY LAYOUT
PROJECT LOCATION	SWITCHGEAR ASSEMBLY LAYOUT
PROJECT NO.	1016502
DATE	10/16/52
DESIGNED BY	W. J. BROWN
CHECKED BY	J. H. BROWN
APPROVED BY	J. H. BROWN
PROJECT TITLE	SWITCHGEAR ASSEMBLY LAYOUT
PROJECT LOCATION	SWITCHGEAR ASSEMBLY LAYOUT

SECTION DIAGRAM
POWER SYSTEM TRANSFORMERS & PROTECTIVE DEVICES

VOLTAGE REGULATOR CONNECTION DIAGRAM

ONE LINE DIAGRAM

SWITCHGEAR ASSEMBLY LAYOUT



PARTS LIST	
1	OPTICAL PICKUP SIGNAL DETECTOR
2	OPTICAL PICKUP SIGNAL DETECTOR
3	OPTICAL PICKUP SIGNAL DETECTOR
4	OPTICAL PICKUP SIGNAL DETECTOR
5	OPTICAL PICKUP SIGNAL DETECTOR
6	OPTICAL PICKUP SIGNAL DETECTOR
7	OPTICAL PICKUP SIGNAL DETECTOR
8	OPTICAL PICKUP SIGNAL DETECTOR
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17	OPTICAL PICKUP SIGNAL DETECTOR
18	OPTICAL PICKUP SIGNAL DETECTOR
19	OPTICAL PICKUP SIGNAL DETECTOR
20	OPTICAL PICKUP SIGNAL DETECTOR

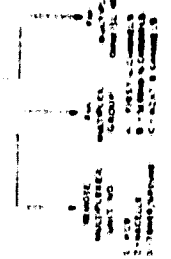
10650	OPTICAL PICKUP SIGNAL DETECTOR
10651	OPTICAL PICKUP SIGNAL DETECTOR
10652	OPTICAL PICKUP SIGNAL DETECTOR
10653	OPTICAL PICKUP SIGNAL DETECTOR
10654	OPTICAL PICKUP SIGNAL DETECTOR
10655	OPTICAL PICKUP SIGNAL DETECTOR
10656	OPTICAL PICKUP SIGNAL DETECTOR
10657	OPTICAL PICKUP SIGNAL DETECTOR
10658	OPTICAL PICKUP SIGNAL DETECTOR
10659	OPTICAL PICKUP SIGNAL DETECTOR
10660	OPTICAL PICKUP SIGNAL DETECTOR
10661	OPTICAL PICKUP SIGNAL DETECTOR
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10663	OPTICAL PICKUP SIGNAL DETECTOR
10664	OPTICAL PICKUP SIGNAL DETECTOR
10665	OPTICAL PICKUP SIGNAL DETECTOR
10666	OPTICAL PICKUP SIGNAL DETECTOR
10667	OPTICAL PICKUP SIGNAL DETECTOR
10668	OPTICAL PICKUP SIGNAL DETECTOR
10669	OPTICAL PICKUP SIGNAL DETECTOR
10670	OPTICAL PICKUP SIGNAL DETECTOR

1. THE NUMBER OF OPTICAL PICKUP SIGNAL DETECTOR
2. THE NUMBER OF OPTICAL PICKUP SIGNAL DETECTOR
3. THE NUMBER OF OPTICAL PICKUP SIGNAL DETECTOR

0-3

Inventory table with columns for Item No., Description, Unit, Qty, Price, Total, and Remarks. The table contains numerous entries with detailed descriptions and numerical values. The grid is labeled with letters A, B, C, D, E, F and numbers 1 through 8.

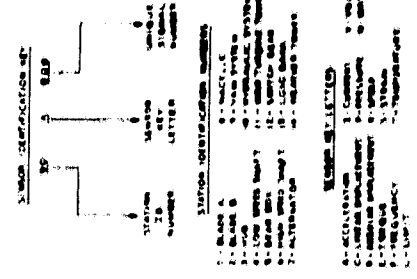
STATE OF CALIFORNIA
OFFICE OF THE ATTORNEY GENERAL
UNIFORM COMMERCIAL CODE
ARTICLE 9
SECTION 1-201
OFFICE OF THE ATTORNEY GENERAL
SAN FRANCISCO, CALIFORNIA



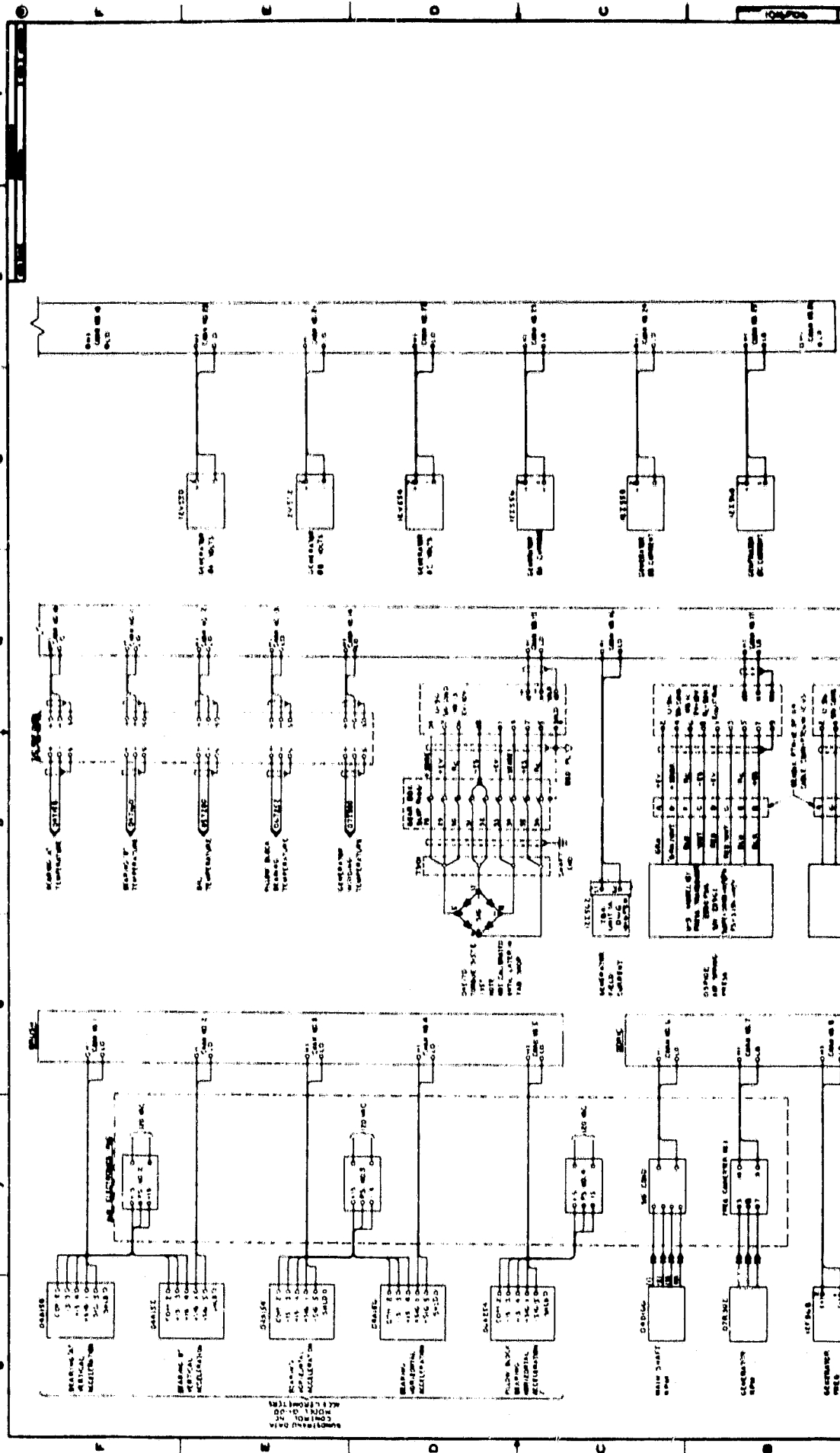
Small tables and forms located in the top right corner, including a 'PARTS LIST' and a 'REUSE CONFIGURATION LIST'. The REUSE CONFIGURATION LIST contains columns for Part No., Description, and Quantity.

UNIFORM COMMERCIAL CODE
ARTICLE 9
SECTION 1-201
OFFICE OF THE ATTORNEY GENERAL
SAN FRANCISCO, CALIFORNIA

LINE NUMBER	SECTION	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL	REMARKS
101	101	CONCRETE	CU YD	100	100.00	10000.00	
102	102	STEEL	LB	2000	0.50	1000.00	
103	103	WOOD	CU YD	50	200.00	10000.00	
104	104	BRICK	1000	100	100.00	10000.00	
105	105	CEMENT	TON	10	1000.00	10000.00	
106	106	SAND	CU YD	100	100.00	10000.00	
107	107	GRAVEL	CU YD	100	100.00	10000.00	
108	108	ASPHALT	CU YD	100	100.00	10000.00	
109	109	PAVING	CU YD	100	100.00	10000.00	
110	110	CONCRETE	CU YD	100	100.00	10000.00	
111	111	STEEL	LB	2000	0.50	1000.00	
112	112	WOOD	CU YD	50	200.00	10000.00	
113	113	BRICK	1000	100	100.00	10000.00	
114	114	CEMENT	TON	10	1000.00	10000.00	
115	115	SAND	CU YD	100	100.00	10000.00	
116	116	GRAVEL	CU YD	100	100.00	10000.00	
117	117	ASPHALT	CU YD	100	100.00	10000.00	
118	118	PAVING	CU YD	100	100.00	10000.00	
119	119	CONCRETE	CU YD	100	100.00	10000.00	
120	120	STEEL	LB	2000	0.50	1000.00	
121	121	WOOD	CU YD	50	200.00	10000.00	
122	122	BRICK	1000	100	100.00	10000.00	
123	123	CEMENT	TON	10	1000.00	10000.00	
124	124	SAND	CU YD	100	100.00	10000.00	
125	125	GRAVEL	CU YD	100	100.00	10000.00	
126	126	ASPHALT	CU YD	100	100.00	10000.00	
127	127	PAVING	CU YD	100	100.00	10000.00	
128	128	CONCRETE	CU YD	100	100.00	10000.00	
129	129	STEEL	LB	2000	0.50	1000.00	
130	130	WOOD	CU YD	50	200.00	10000.00	
131	131	BRICK	1000	100	100.00	10000.00	
132	132	CEMENT	TON	10	1000.00	10000.00	
133	133	SAND	CU YD	100	100.00	10000.00	
134	134	GRAVEL	CU YD	100	100.00	10000.00	
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136	136	PAVING	CU YD	100	100.00	10000.00	
137	137	CONCRETE	CU YD	100	100.00	10000.00	
138	138	STEEL	LB	2000	0.50	1000.00	
139	139	WOOD	CU YD	50	200.00	10000.00	
140	140	BRICK	1000	100	100.00	10000.00	
141	141	CEMENT	TON	10	1000.00	10000.00	
142	142	SAND	CU YD	100	100.00	10000.00	
143	143	GRAVEL	CU YD	100	100.00	10000.00	
144	144	ASPHALT	CU YD	100	100.00	10000.00	
145	145	PAVING	CU YD	100	100.00	10000.00	
146	146	CONCRETE	CU YD	100	100.00	10000.00	
147	147	STEEL	LB	2000	0.50	1000.00	
148	148	WOOD	CU YD	50	200.00	10000.00	
149	149	BRICK	1000	100	100.00	10000.00	
150	150	CEMENT	TON	10	1000.00	10000.00	



REVISIONS		DATE		BY	
1	REVISED	10/15/60	J. J.
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1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
 2. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.

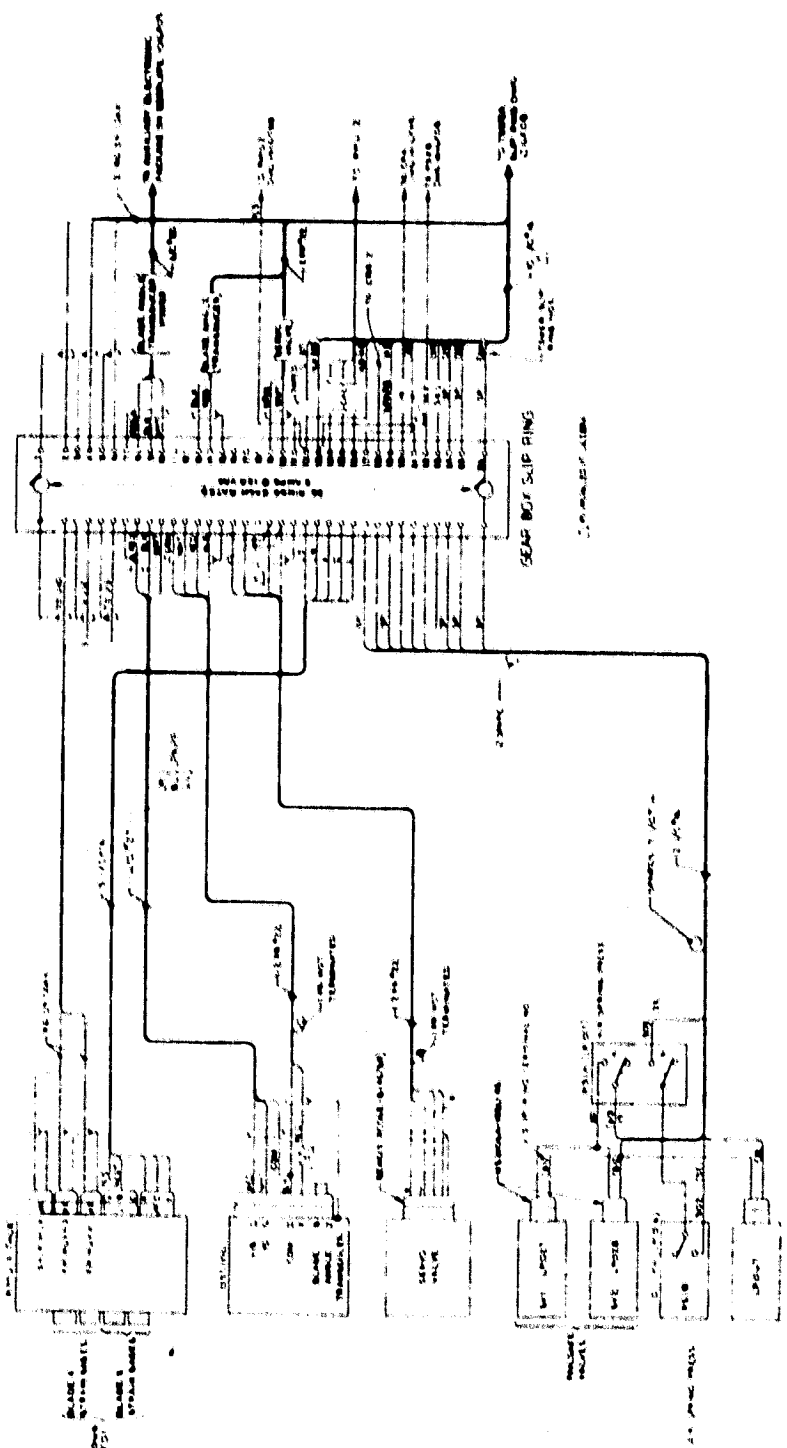
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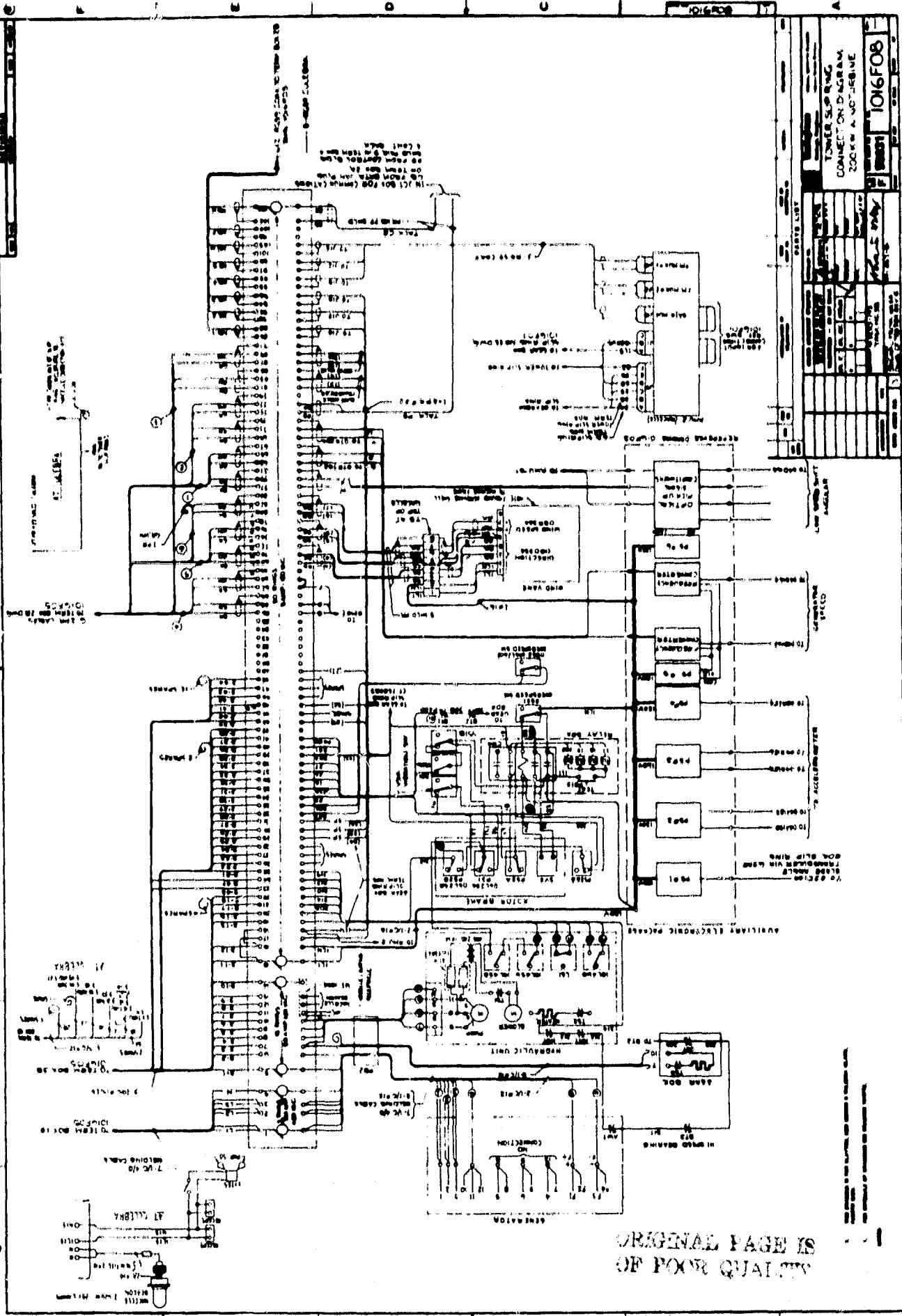
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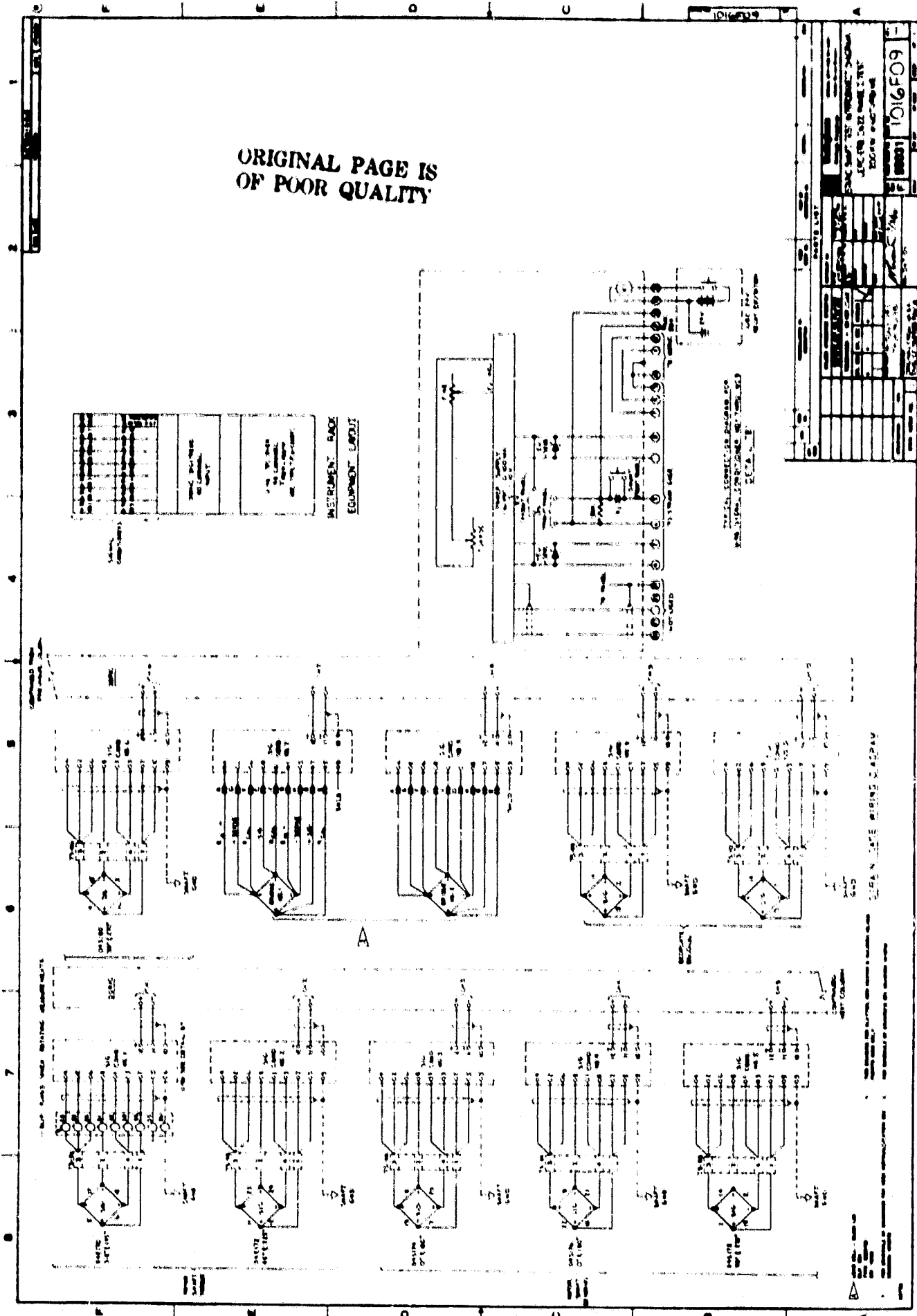
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 3. THE MOTOR IS CONTROLLED BY BOARD 5 AND BOARD 6.
 4. THE MOTOR IS CONTROLLED BY BOARD 7 AND BOARD 8.
 5. THE MOTOR IS CONTROLLED BY BOARD 9 AND BOARD 10.
 6. THE MOTOR IS CONTROLLED BY BOARD 11 AND BOARD 12.
 7. THE MOTOR IS CONTROLLED BY BOARD 13 AND BOARD 14.



1016 F08	
LOWER SUB RING CONNECTION DIAGRAM CHECK A. NOT REVERSE	
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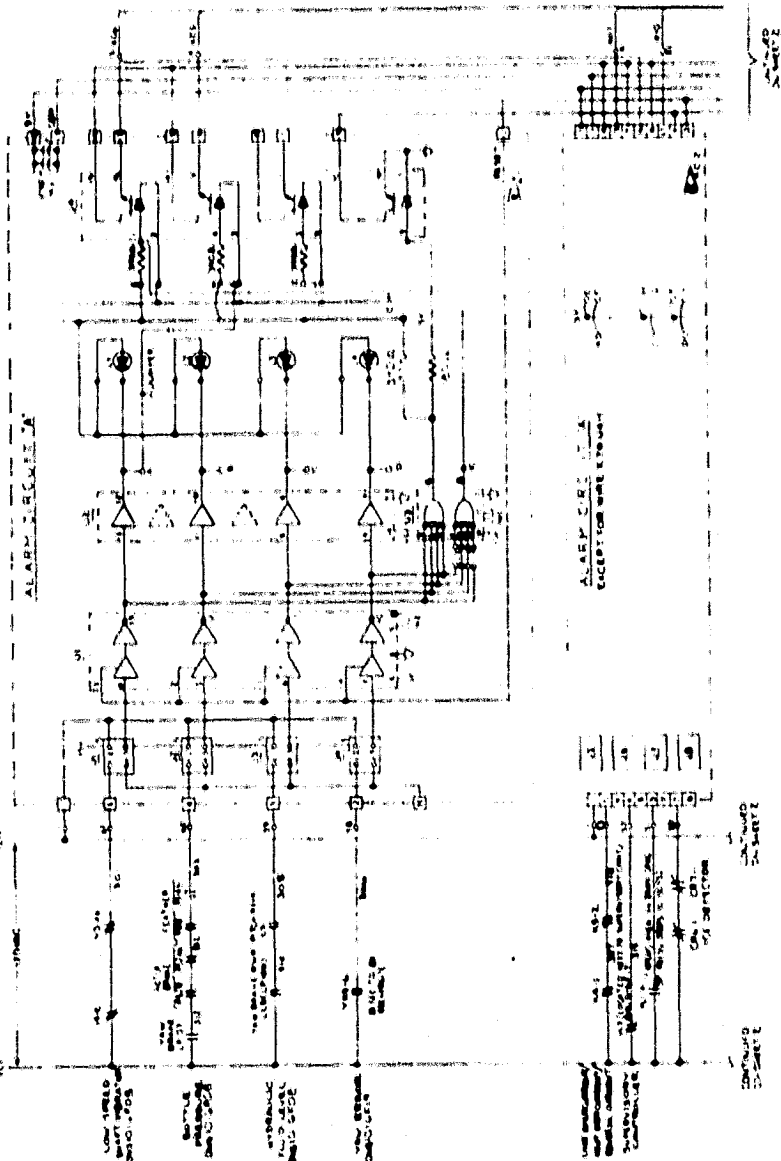
USE IN CASE OF WIRE BREAKAGE

USE IN CASE OF WIRE BREAKAGE

USE IN CASE OF WIRE BREAKAGE

NO.	DESCRIPTION	QTY
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2	RESISTOR 1/2W 100K	2
3	RESISTOR 1/2W 10M	2
4	RESISTOR 1/2W 100M	2
5	RESISTOR 1/2W 1K	2
6	RESISTOR 1/2W 10K	2
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14	RESISTOR 1/2W 100M	2
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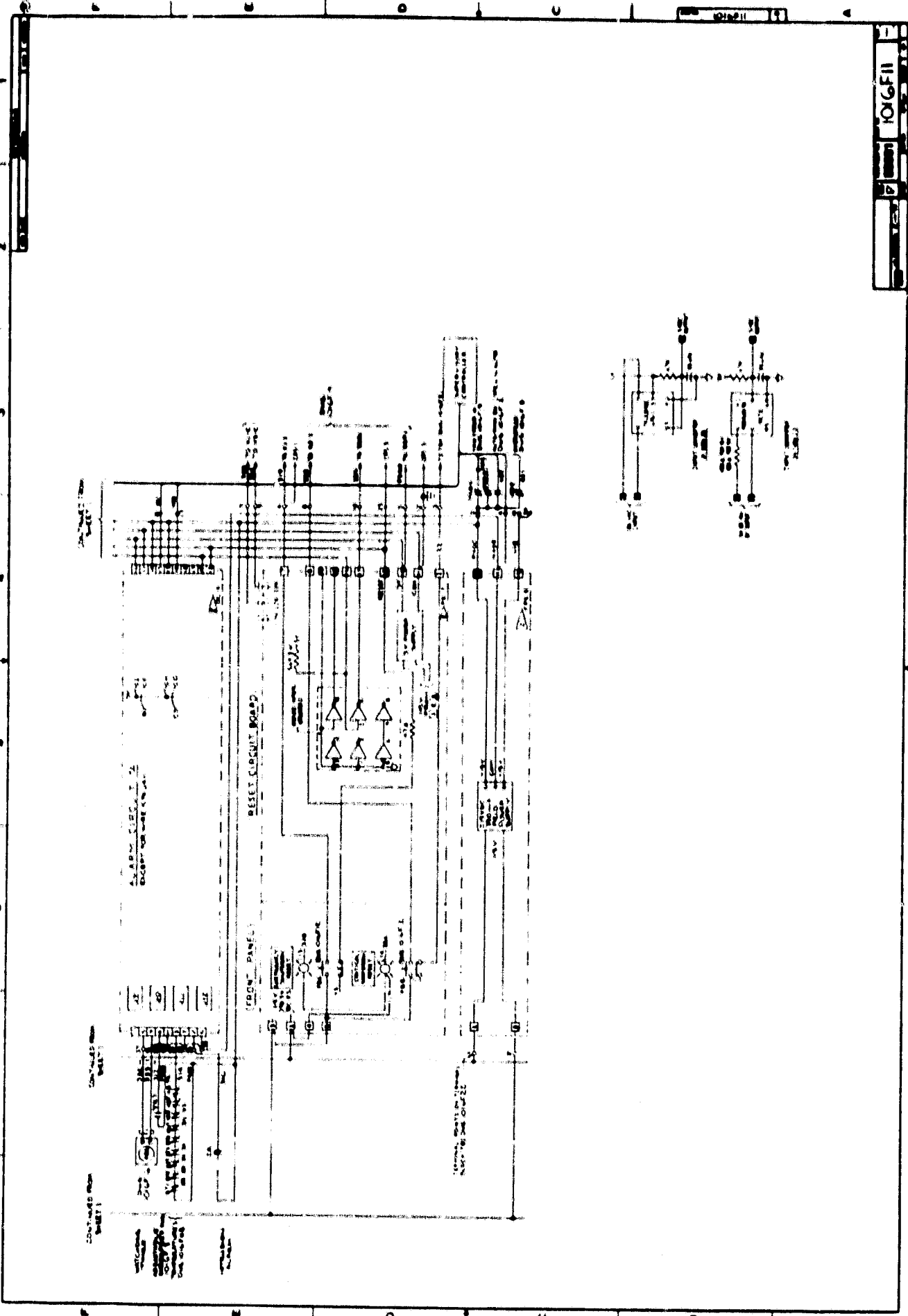
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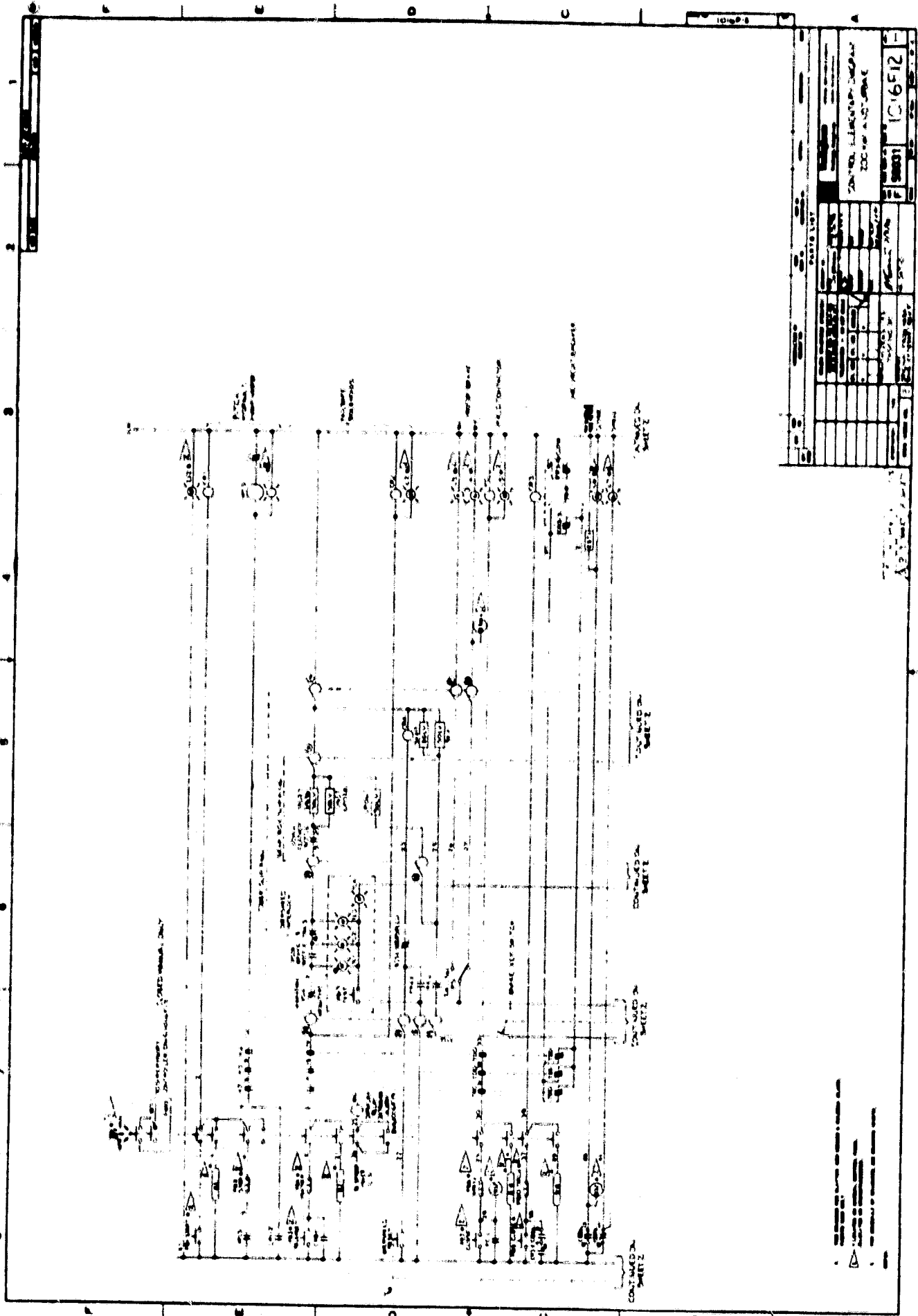
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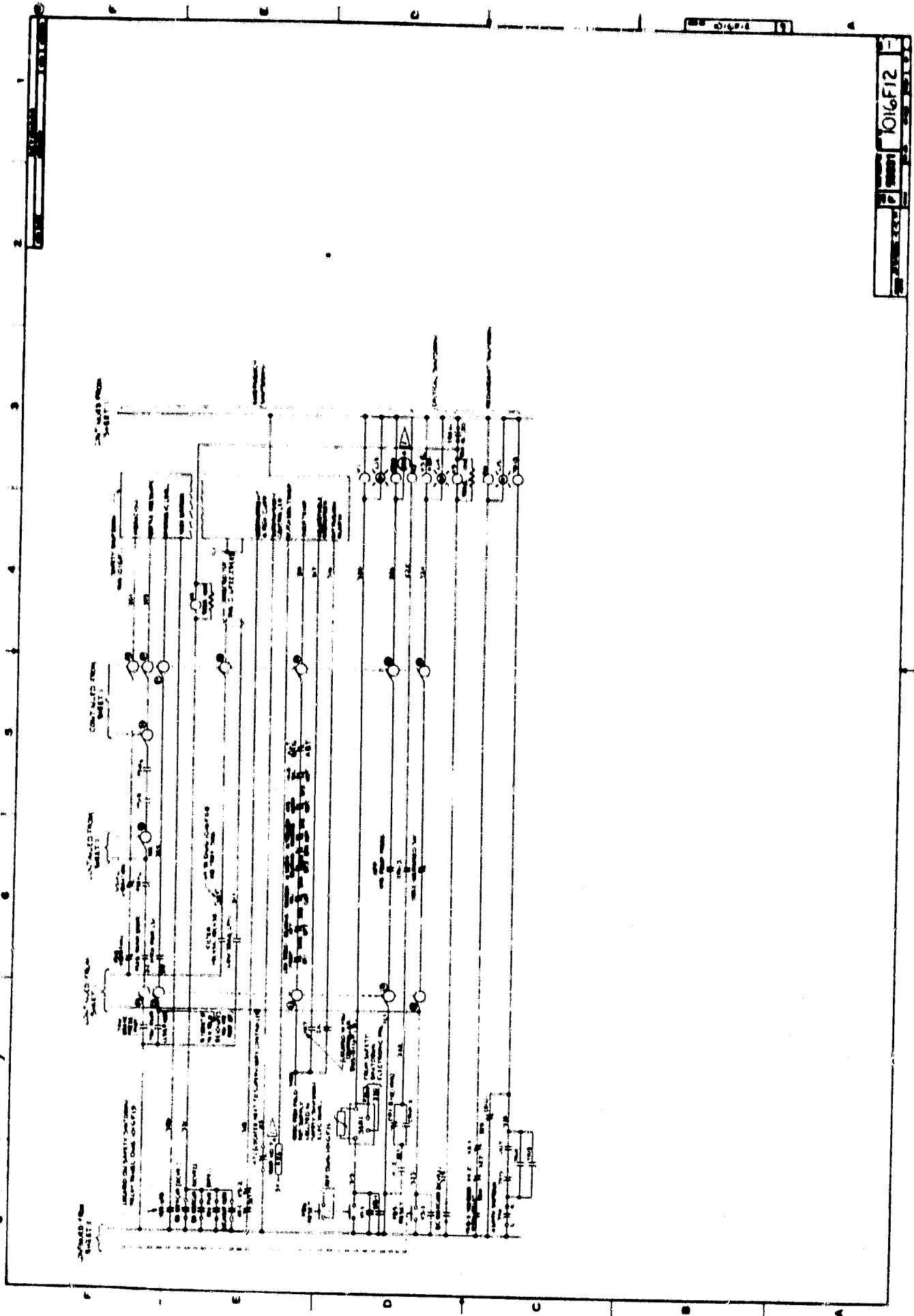
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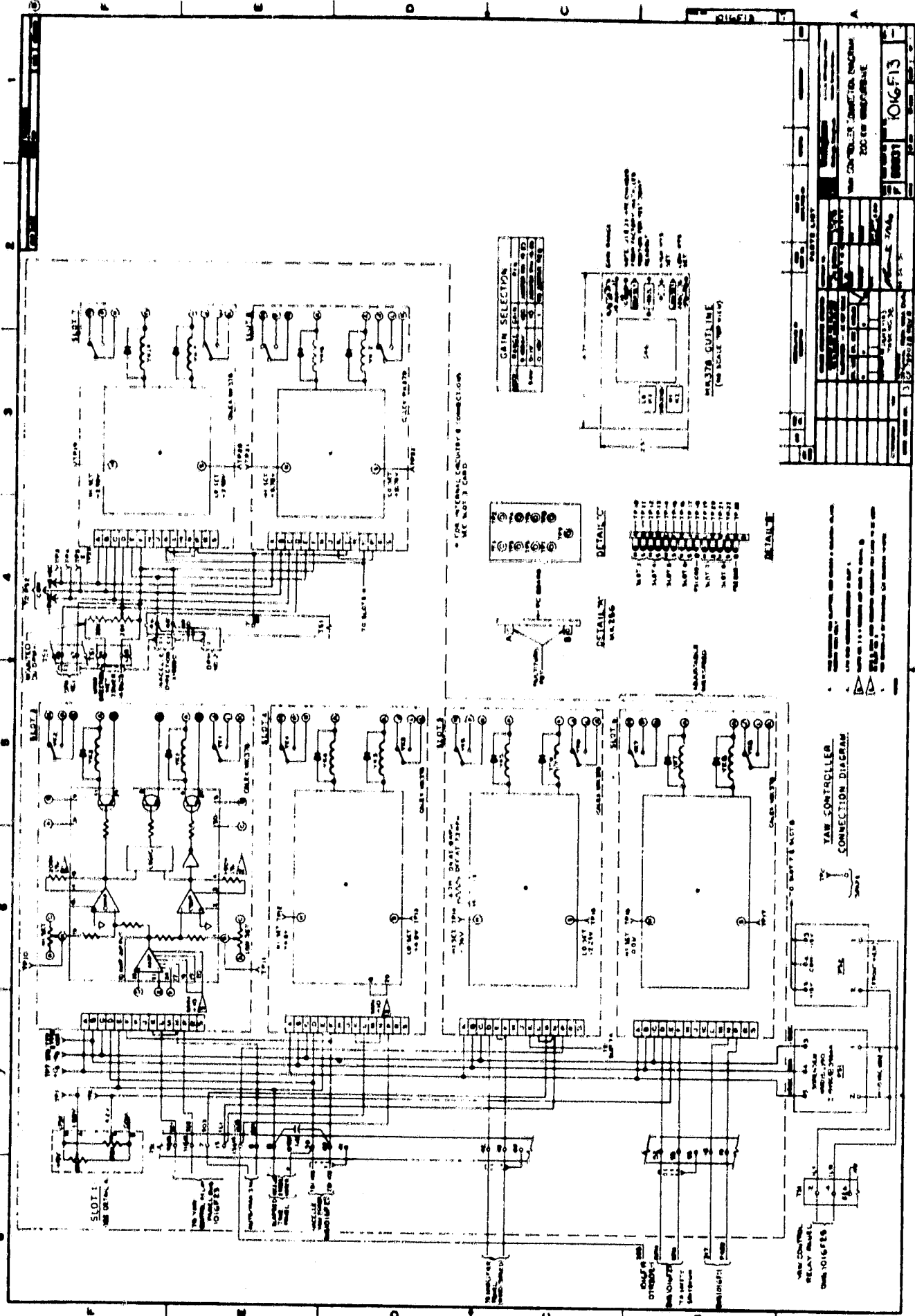
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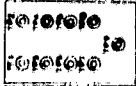
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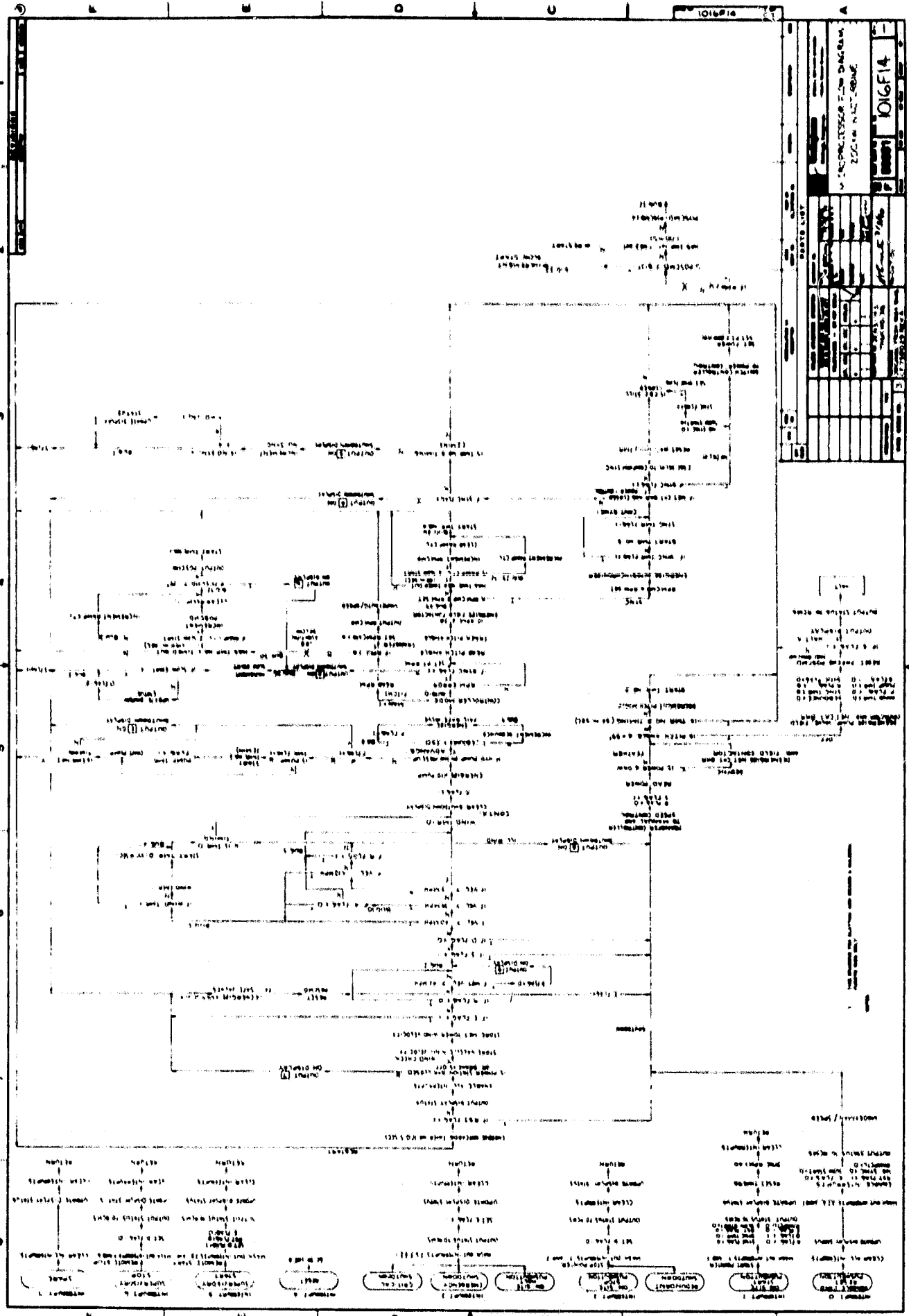


- 1. THE RELAY CONNECTIONS ARE IDENTICAL TO THOSE SHOWN IN THE CONNECTION DIAGRAM.
- 2. THE RELAY CONNECTIONS ARE IDENTICAL TO THOSE SHOWN IN THE CONNECTION DIAGRAM.
- 3. THE RELAY CONNECTIONS ARE IDENTICAL TO THOSE SHOWN IN THE CONNECTION DIAGRAM.

YAW CONTROLLER CONNECTION DIAGRAM

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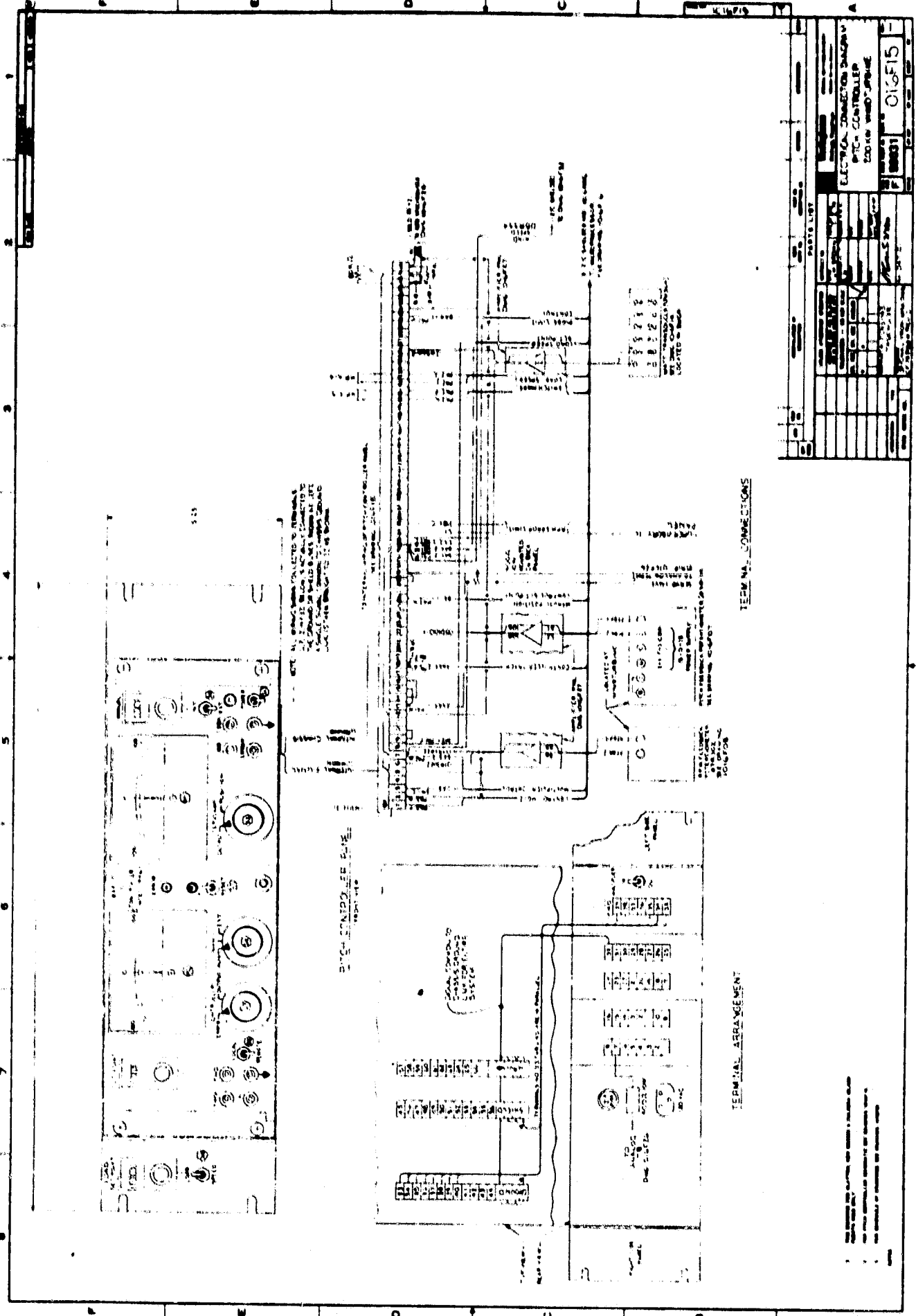


101614

REV.	DATE	BY	CHKD.	DESCRIPTION
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101614

REV.	DATE	BY	CHKD.	DESCRIPTION
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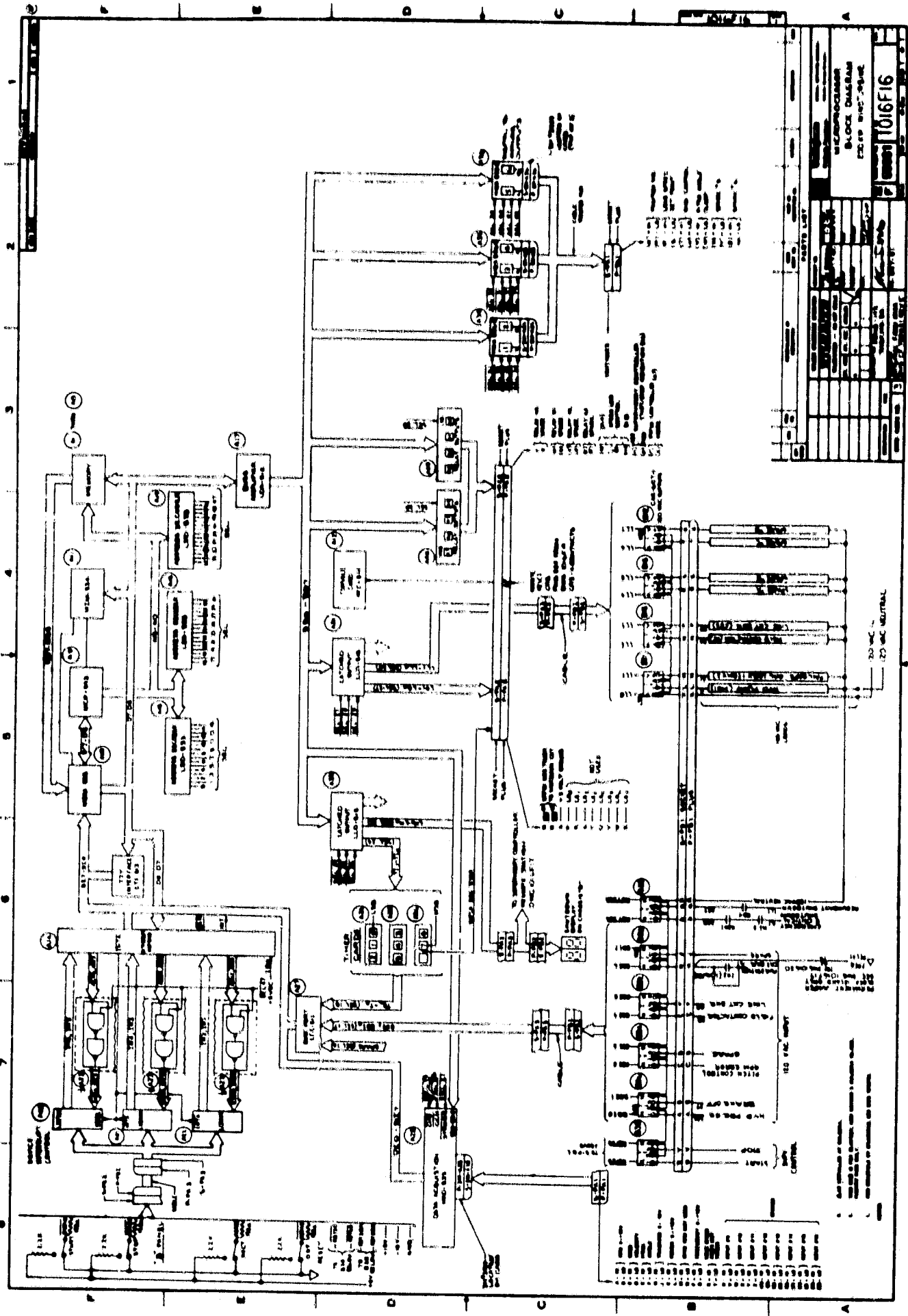


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TERM. NO. CONNECTIONS

TERMINAL ARRANGEMENT

1. ALL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
2. ALL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
3. ALL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.



PARTS LIST	
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IC 1016F16

IC 1016F16

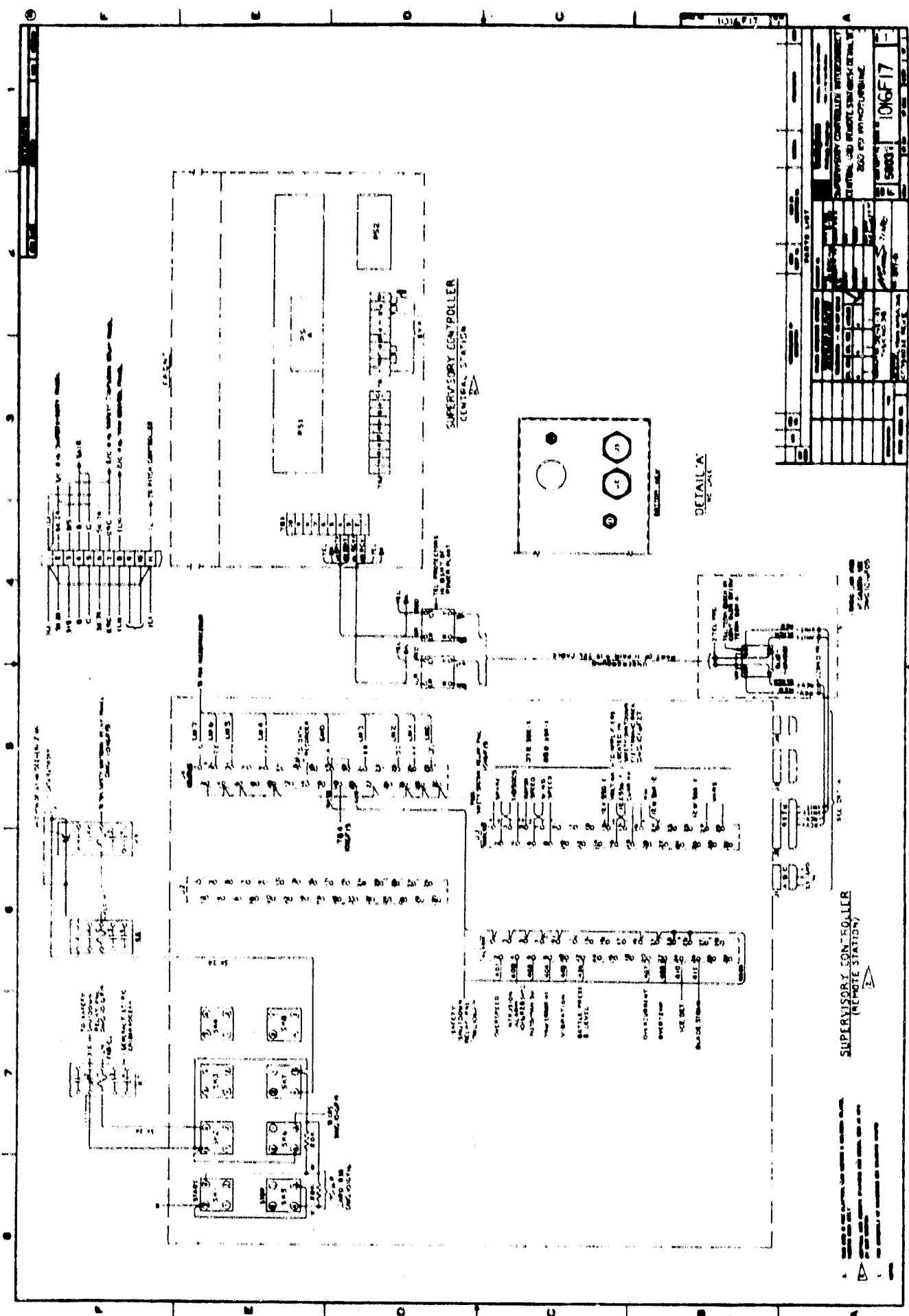
IC 1016F16

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REVISIONS		DATE	
1	ASSEMBLED	10/17/67	10/17/67
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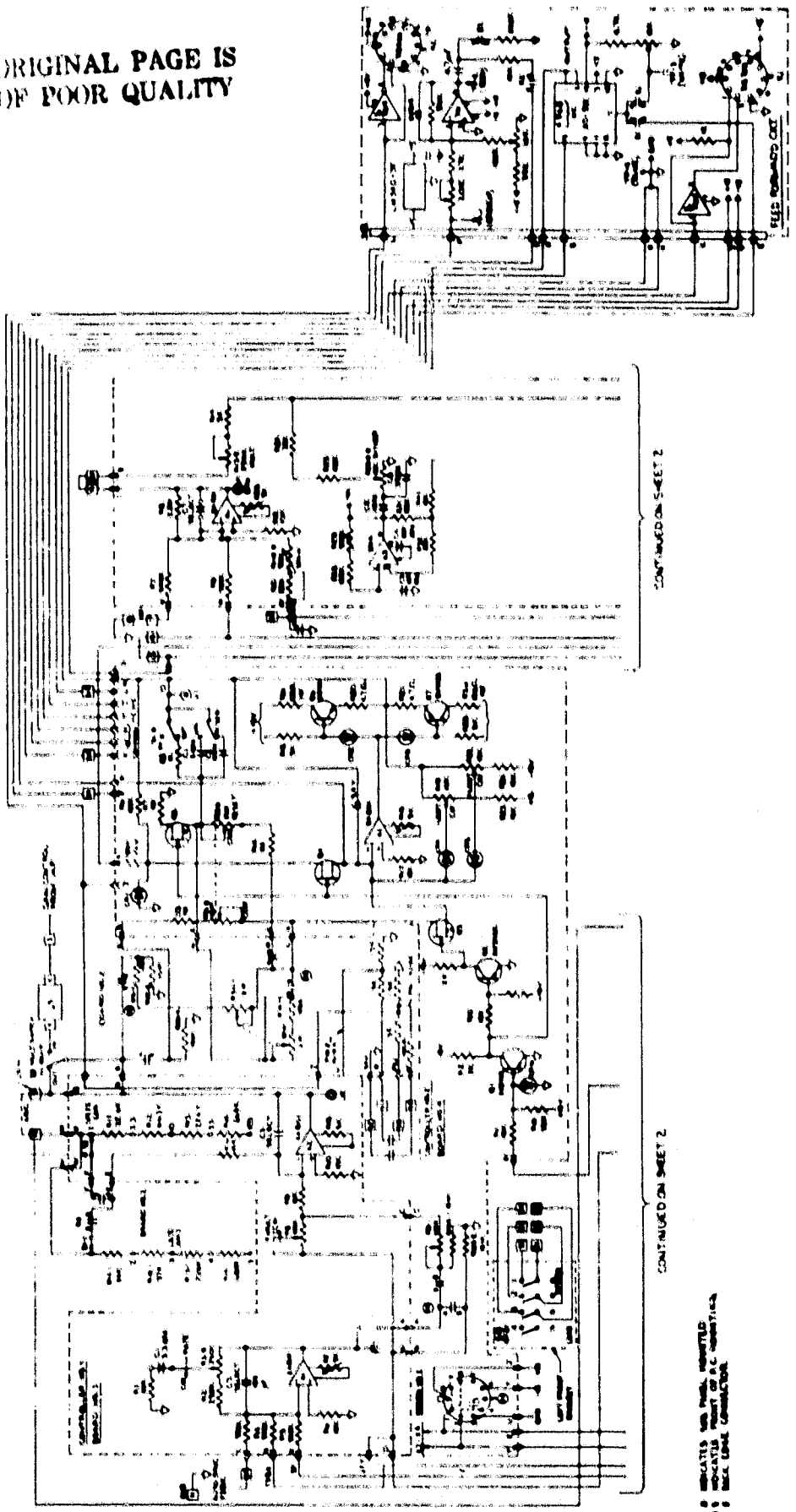
SUPERVISORY CONTROL CENTER (REMOTE STATION)

DETAIL A

SUPERVISORY CONTROL CENTER (CENTRAL STATION)

1. ALL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, LATEST EDITION.
 2. ALL WIRING SHALL BE IDENTIFIED BY NUMBER AND LETTERS.
 3. ALL WIRING SHALL BE IDENTIFIED BY NUMBER AND LETTERS.
 4. ALL WIRING SHALL BE IDENTIFIED BY NUMBER AND LETTERS.

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OF POOR QUALITY



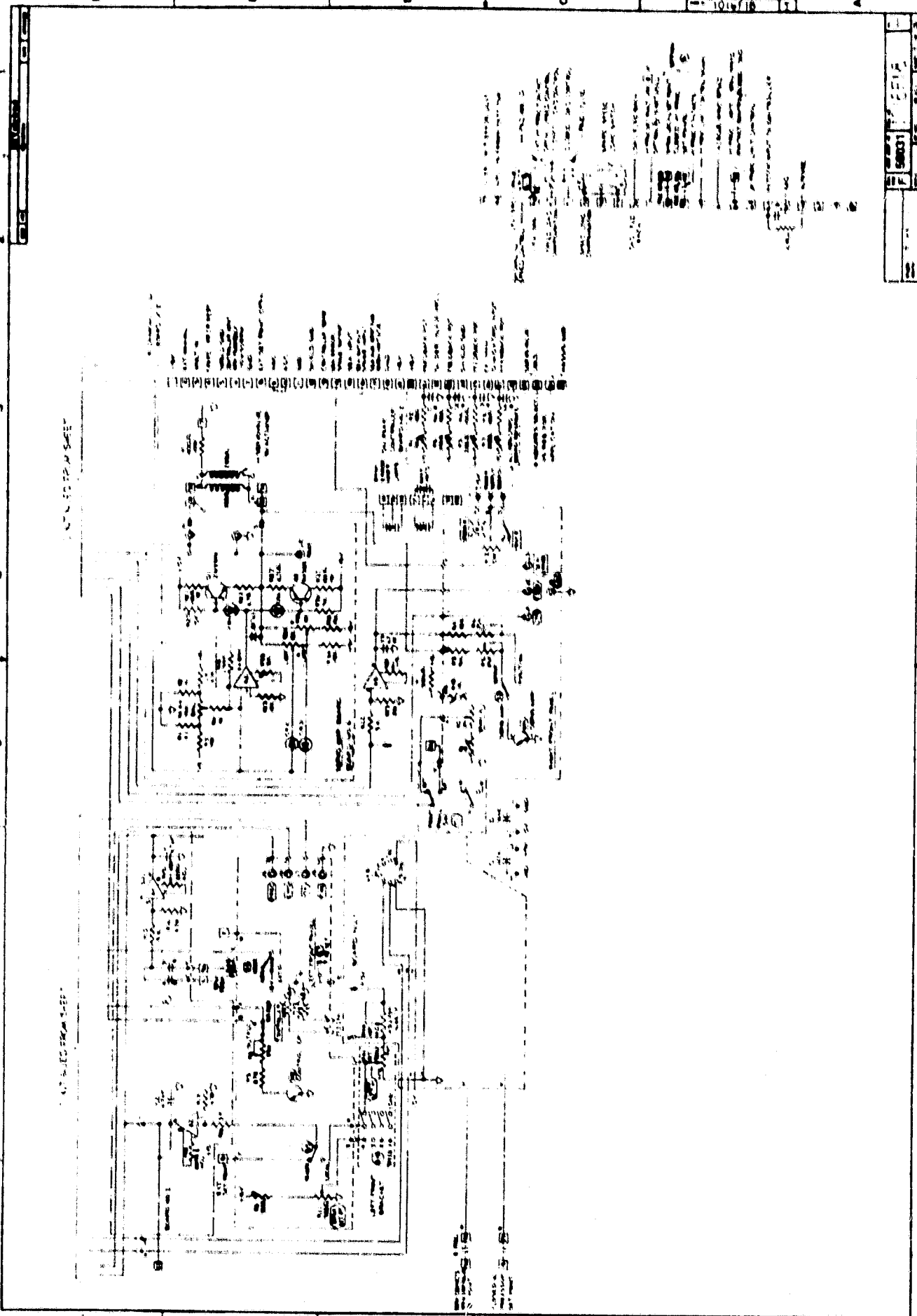
● INDICATES NOT POPULATED
○ INDICATES POINT OF AC CONNECTION
○ INDICATES LOCAL LOOP CONNECTION

PARTS CONTROLLED SCHEMATIC		DATE: 10/16/18	
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1. THIS SHEET IS A PART OF A SCHEMATIC DRAWING.
2. IT IS NOT TO BE USED AS A STAND-ALONE DOCUMENT.
3. IT IS THE PROPERTY OF THE COMPANY AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

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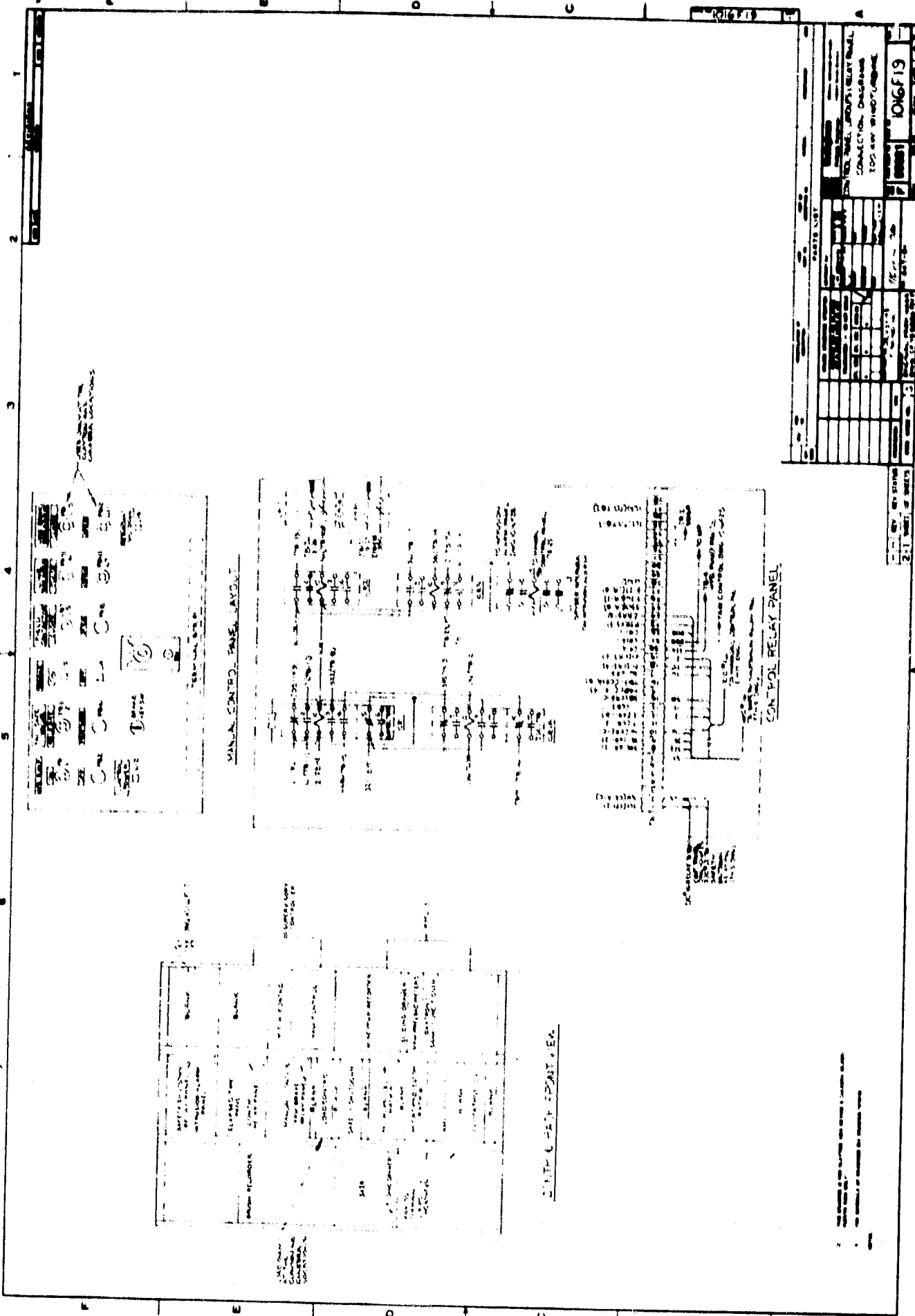
10/17/78



CONT. TO DRAW SHEET

CONT. TO DRAW SHEET

Handwritten mark or signature.

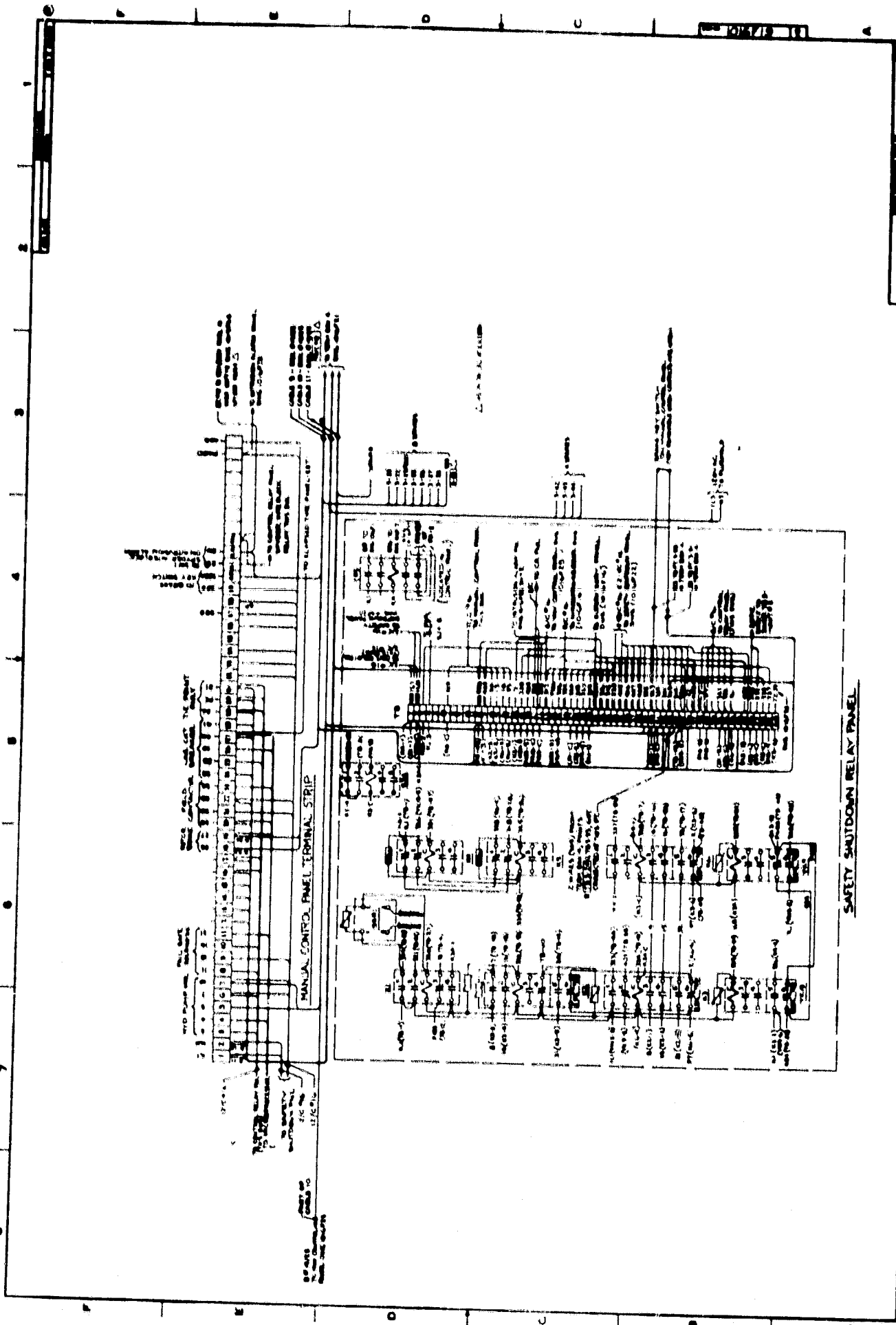


01619

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NO. OF SHEETS 31
NO. OF SHEETS 31

1. THIS PANEL IS TO BE USED FOR THE CONTROL OF THE...
2. THE PANEL IS TO BE CONTROLLED BY THE...
3. THE PANEL IS TO BE CONTROLLED BY THE...



SAFETY SHUTDOWN RELAY PANEL

216

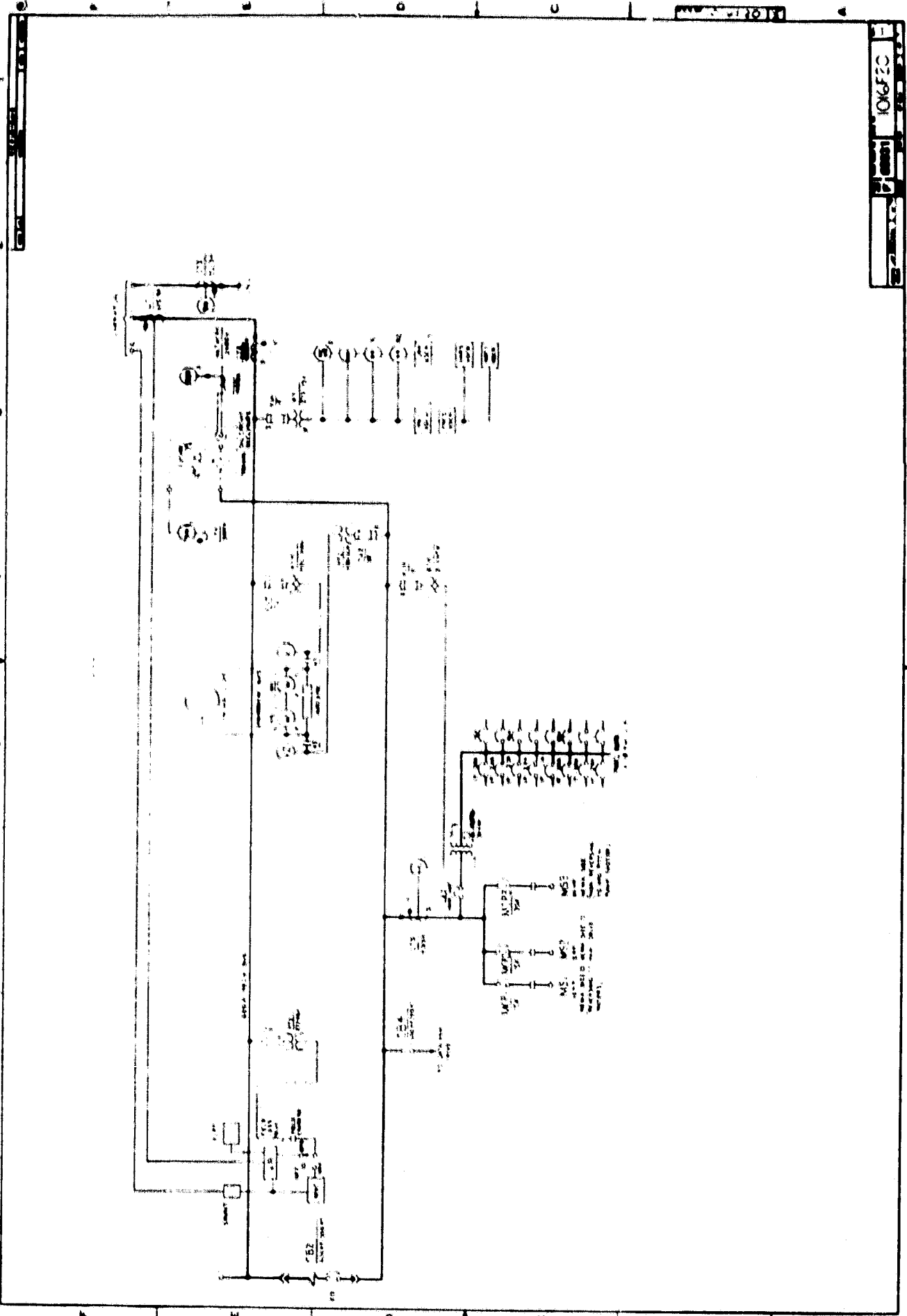
EQUIPMENT LEGEND

ITEM	DESCRIPTION
AS	AUTOMATIC TRANSMITTER DRIVE
CB	CIRCUIT BREAKER
CT	CURRENT TRANSFORMER
PZ	PUMP
L	LAMP/INCANDESCENT LIGHTS
SP	SPEED CONTROL
MS	MOON STARTER
OCR	OVERCURRENT VOLTAGE RESTRAINT RELAY
PT	POTENTIAL TRANSFORMER
RR	REVERSE POWER RELAY
V	VOLTMETER
VR	VOLTAGE REGULATOR
WA	WATT-HOUR METER
WR	WATER RELAY
SR	STARTER
SR	STARTER RELAY
OR	OVERCURRENT RELAY (MOTOR/DRIVE)
OR	OVERCURRENT RELAY
VR	VOLTMETER
WR	WATER RELAY
WR	WATER RELAY

- 31. THE REMOTE IS FOR CUMULATIVE WATT-HOUR METER, NUMBERED AND MAY BE USED TO MEASURE ENERGY CONSUMPTION.
- 32. 3-POLE REVERSE CONTACTS ARE ORIGINAL EQUIPMENT, NUMBERED AND MAY BE USED TO MEASURE ENERGY CONSUMPTION.
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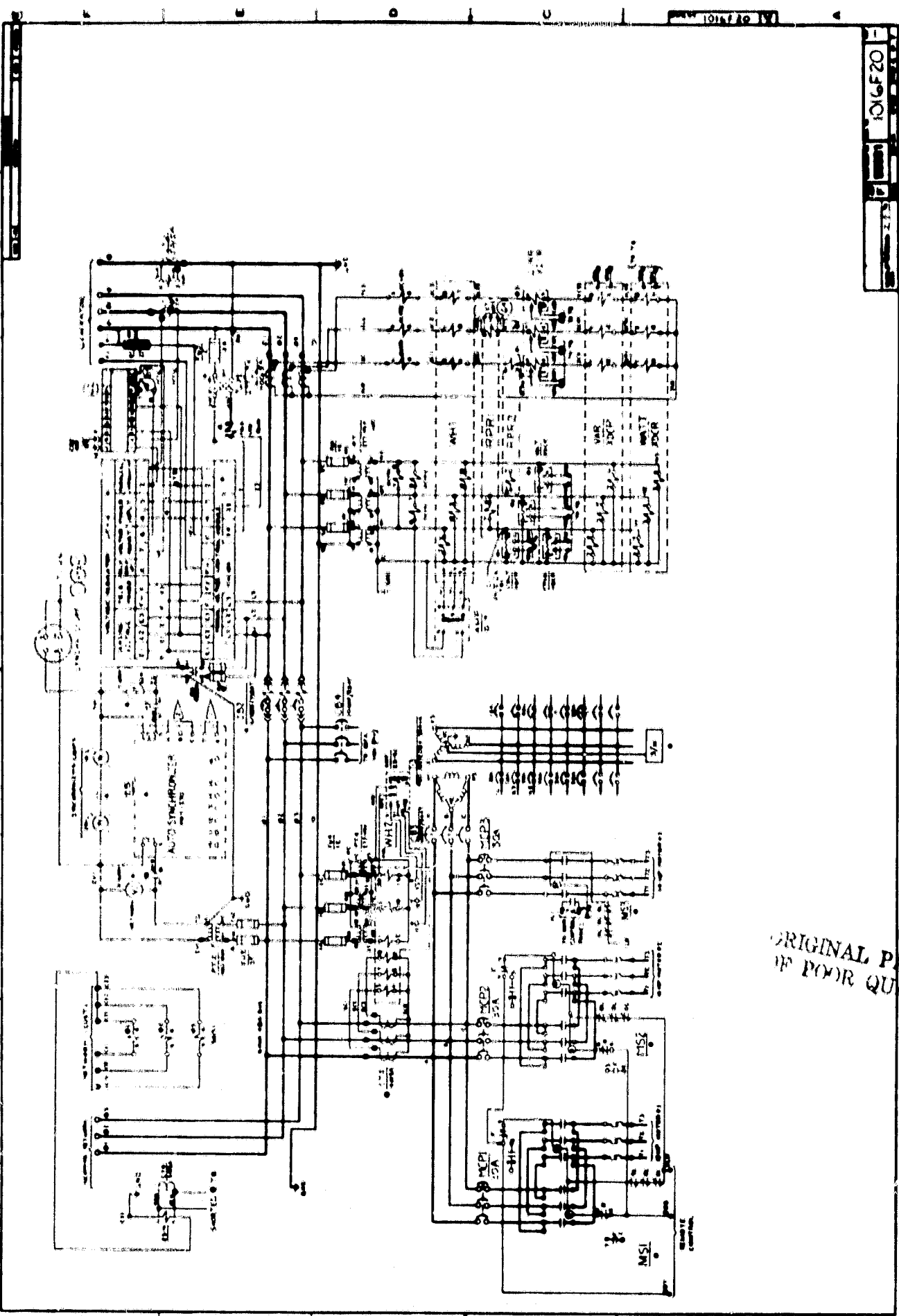
- 34. THE REMOTE IS FOR CUMULATIVE WATT-HOUR METER, NUMBERED AND MAY BE USED TO MEASURE ENERGY CONSUMPTION.
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- 50. 3-POLE REVERSE CONTACTS ARE ORIGINAL EQUIPMENT, NUMBERED AND MAY BE USED TO MEASURE ENERGY CONSUMPTION.

218



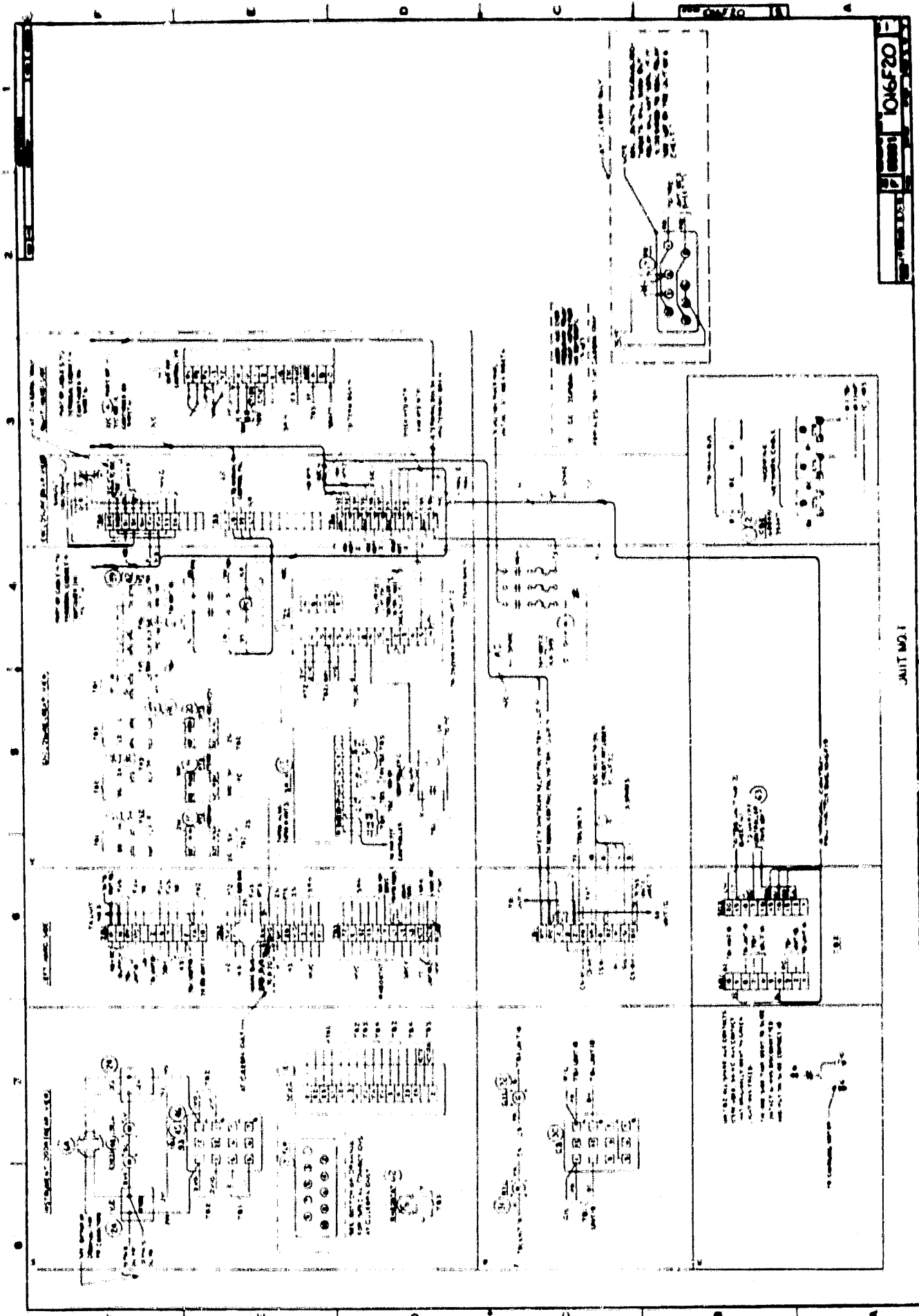
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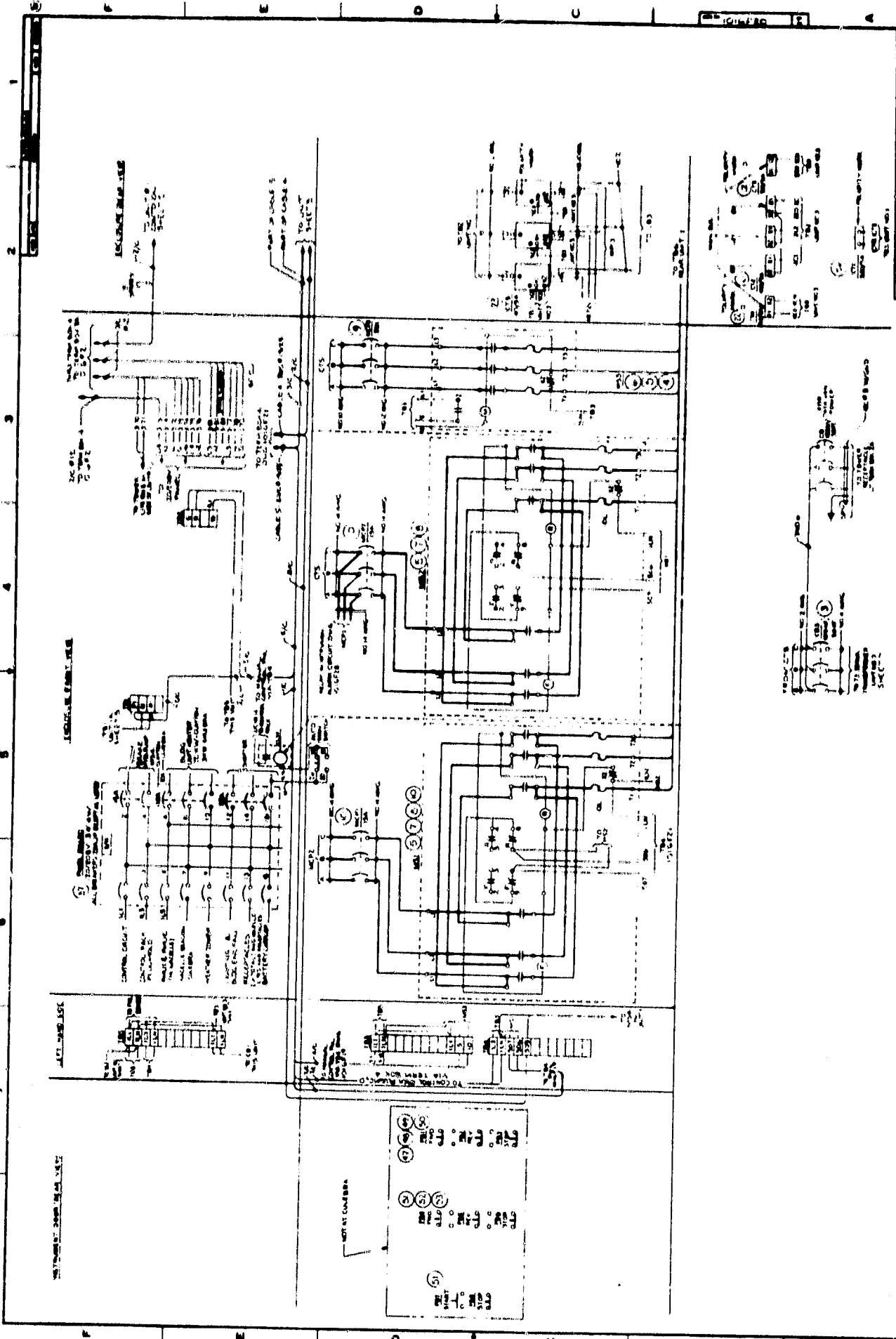
340



106F20

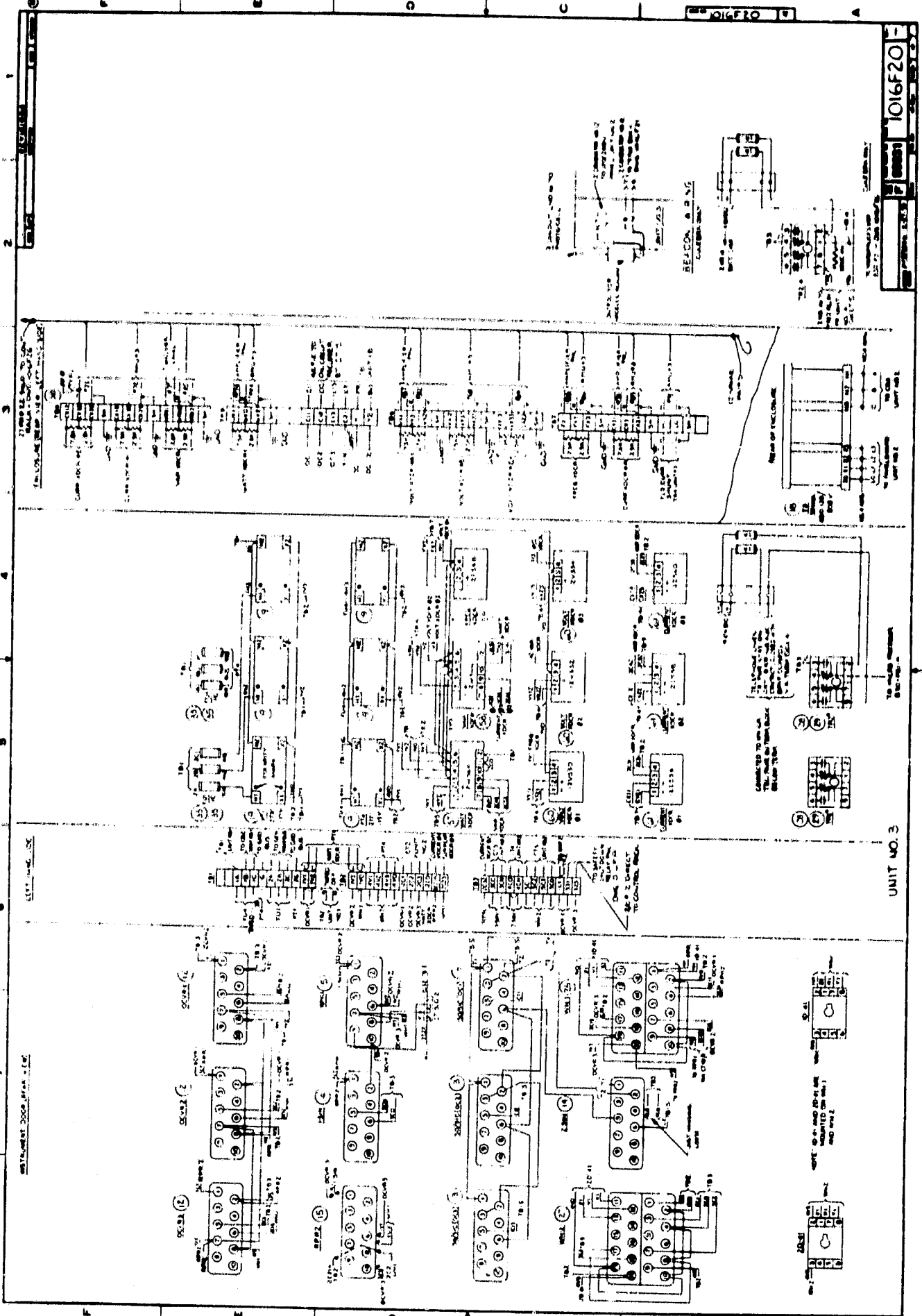
JUNIT NO. 1

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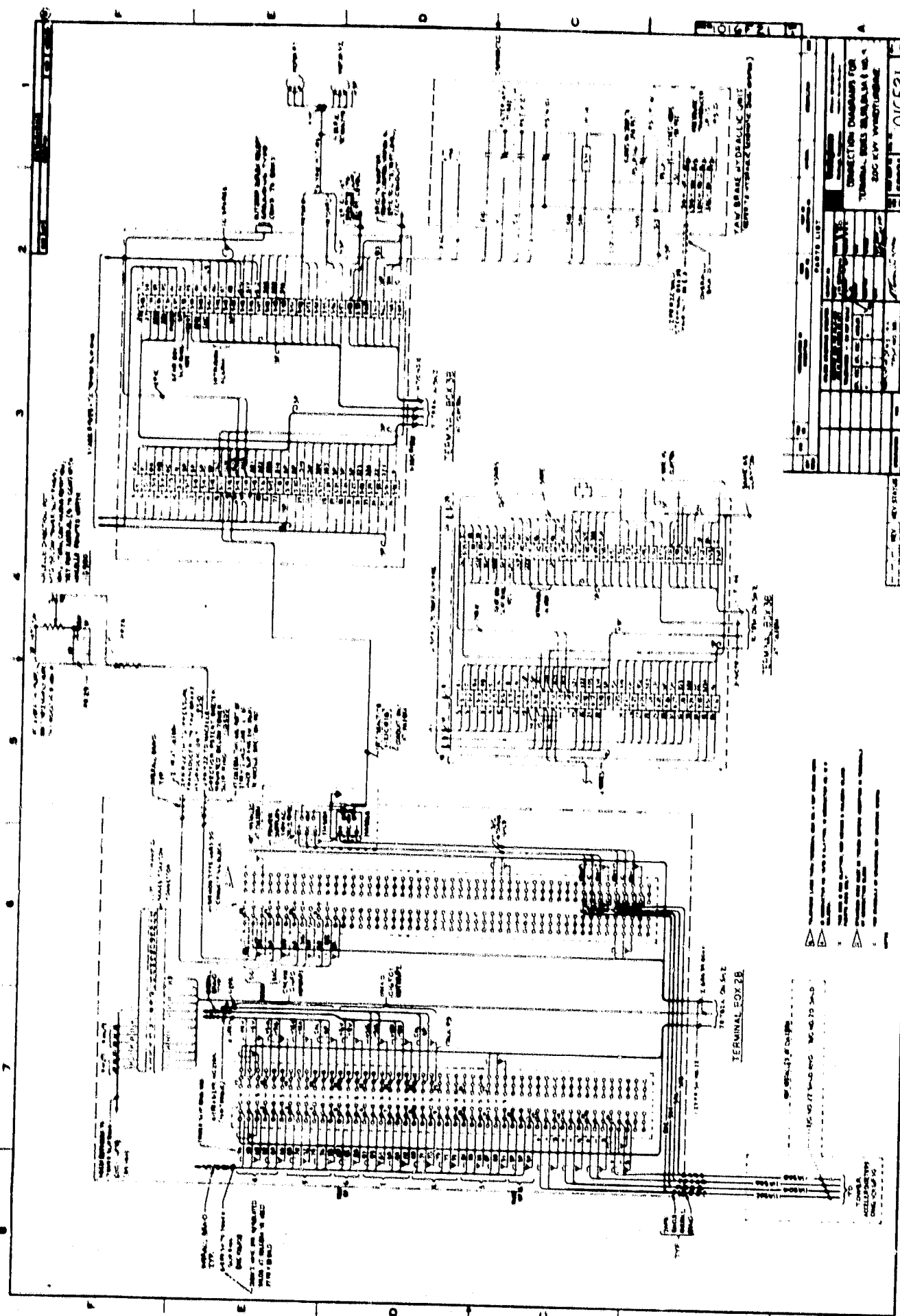
UNIT NO. 2
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UNIT NO. 2



UNIT NO. 3

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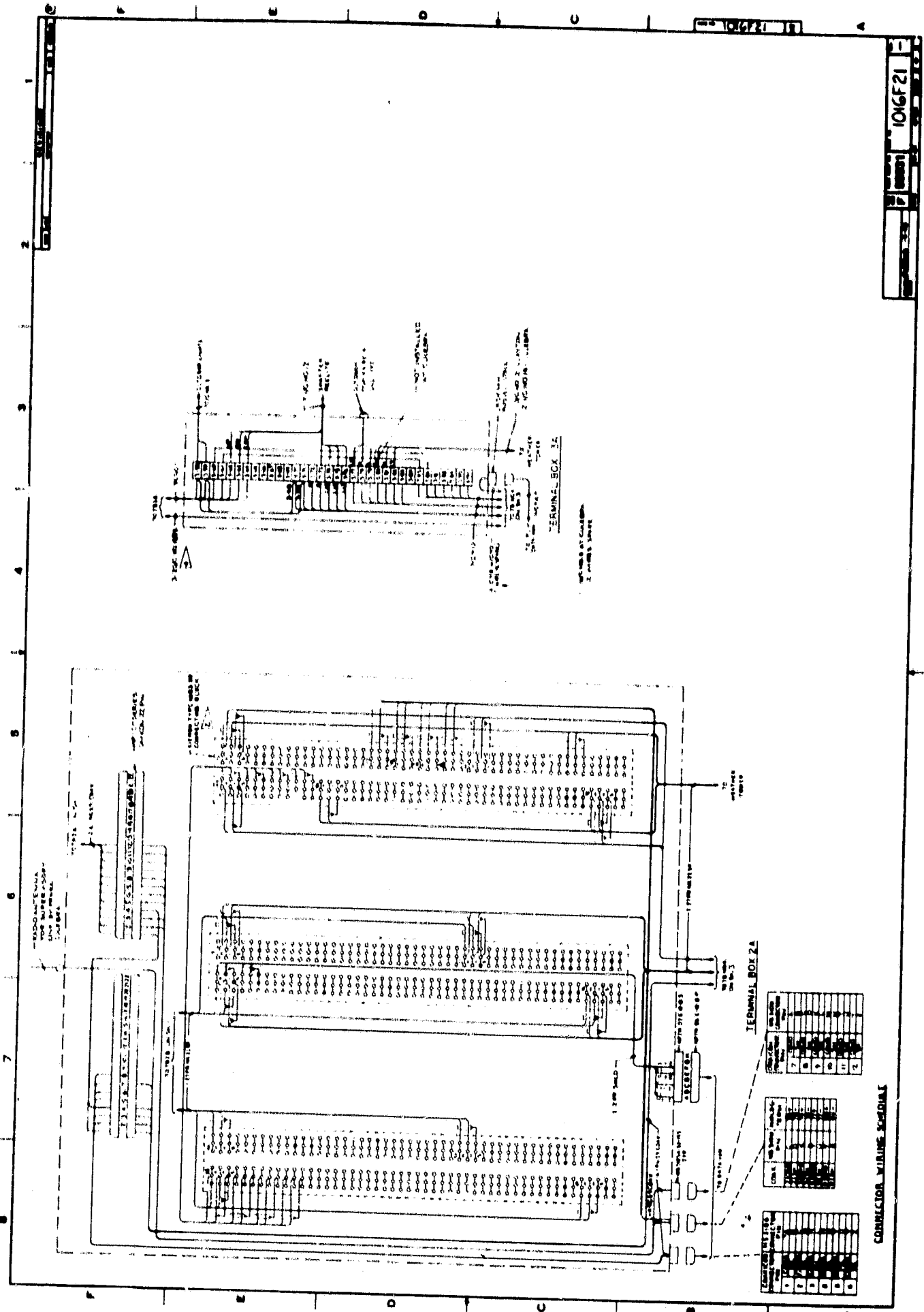


PARTS LIST		
NO.	DESCRIPTION	QTY
1	TERMINAL BOX 28	1
2	YAW BRAKE HYDRAULIC UNIT	1
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TO CHECK WIRING CONNECTIONS
REFER TO DRAWING 1016F21
FOR WIRING CONNECTIONS
TO TERMINAL BOX 28
AND YAW BRAKE HYDRAULIC UNIT

REV.	REV. STATUS	REV. NO.	REV. DATE
1	INITIALS	1	...
2

1016F21



106GF21

CONNECTOR WIRING SCHEMATIC

TERMINAL BOX 3A

TERMINAL BOX 2A

TERMINAL BOX 2B

TERMINAL BOX 2C

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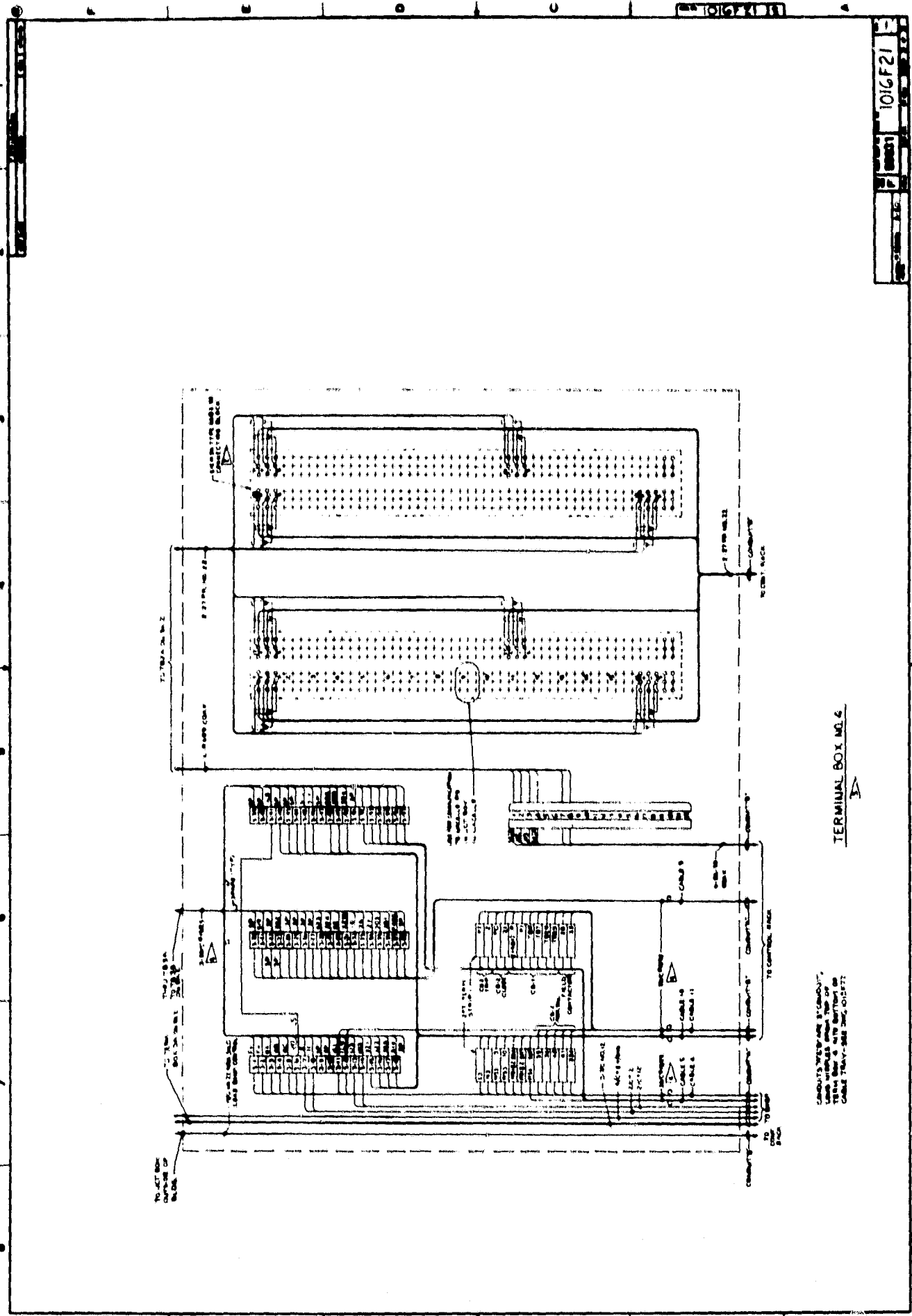
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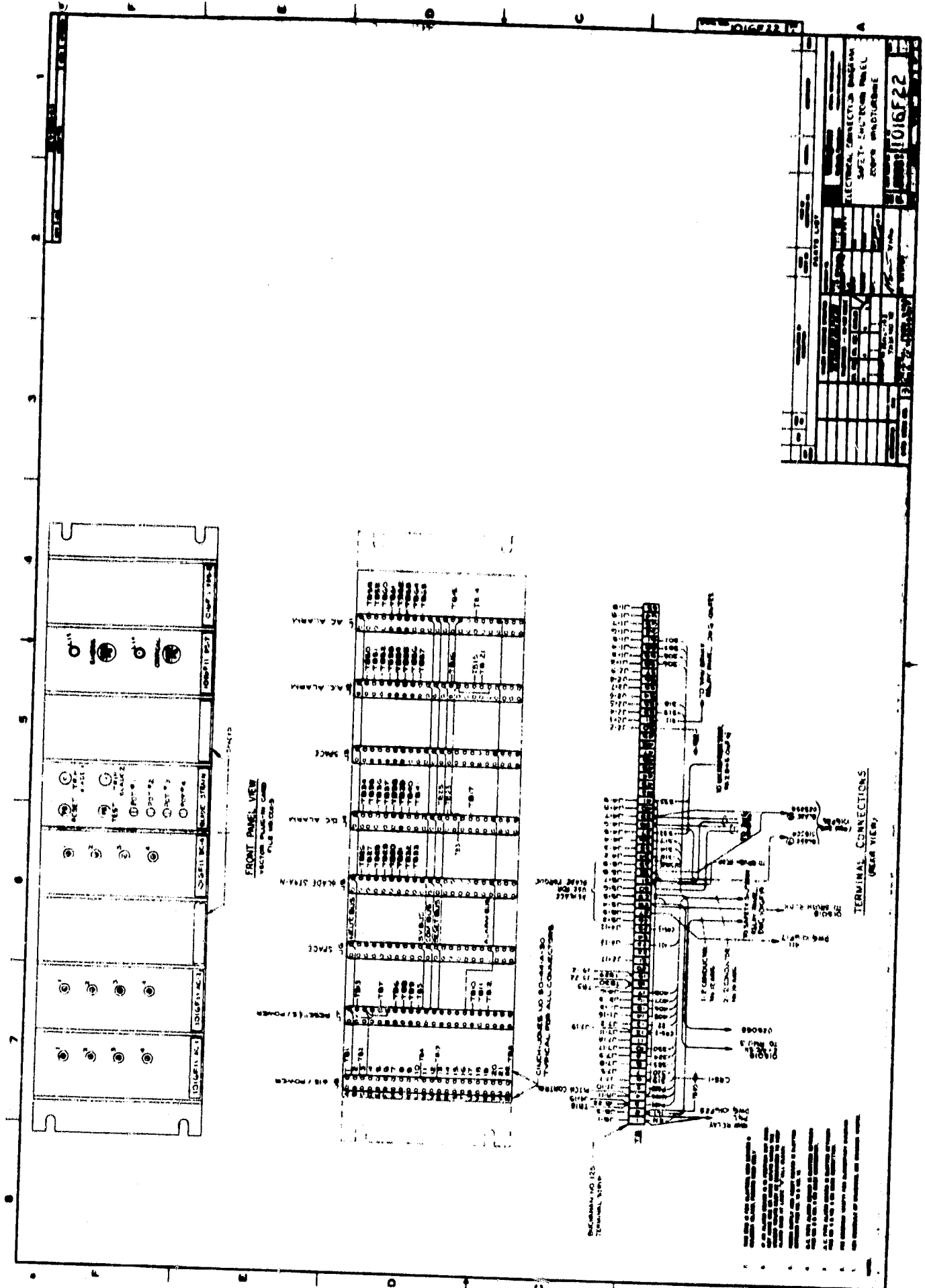


1016F21

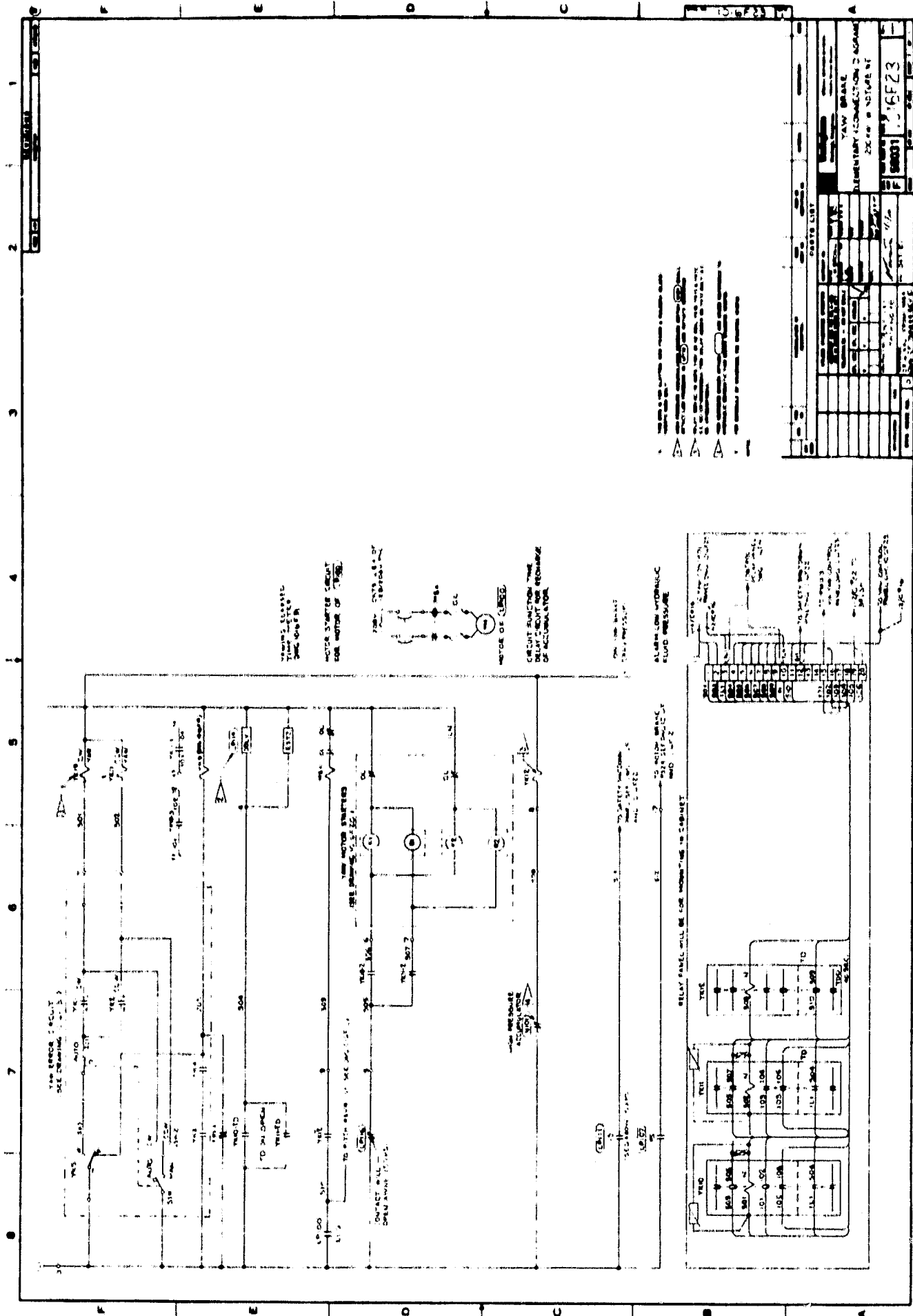
TERMINAL BOX M.L.G.

CABLES W/IN ARE "C" CABLES
 USE W/IN ARE "B" CABLES
 CABLE TRAY-SEE FIG. 1016F21

376



979



WARNING: DISCONNECT THIS CIRCUIT FROM THE MOTOR.

NOTE: STARTER CIRCUIT FOR MOTOR OF 100HP.

THE MOTOR STARTER DELAY CIRCUIT IS SHOWN IN FIG. 10-2.

NOTE OF CAUTION: CIRCUIT BREAKER THE DELAY CIRCUIT FOR MOTOR OF 100HP.

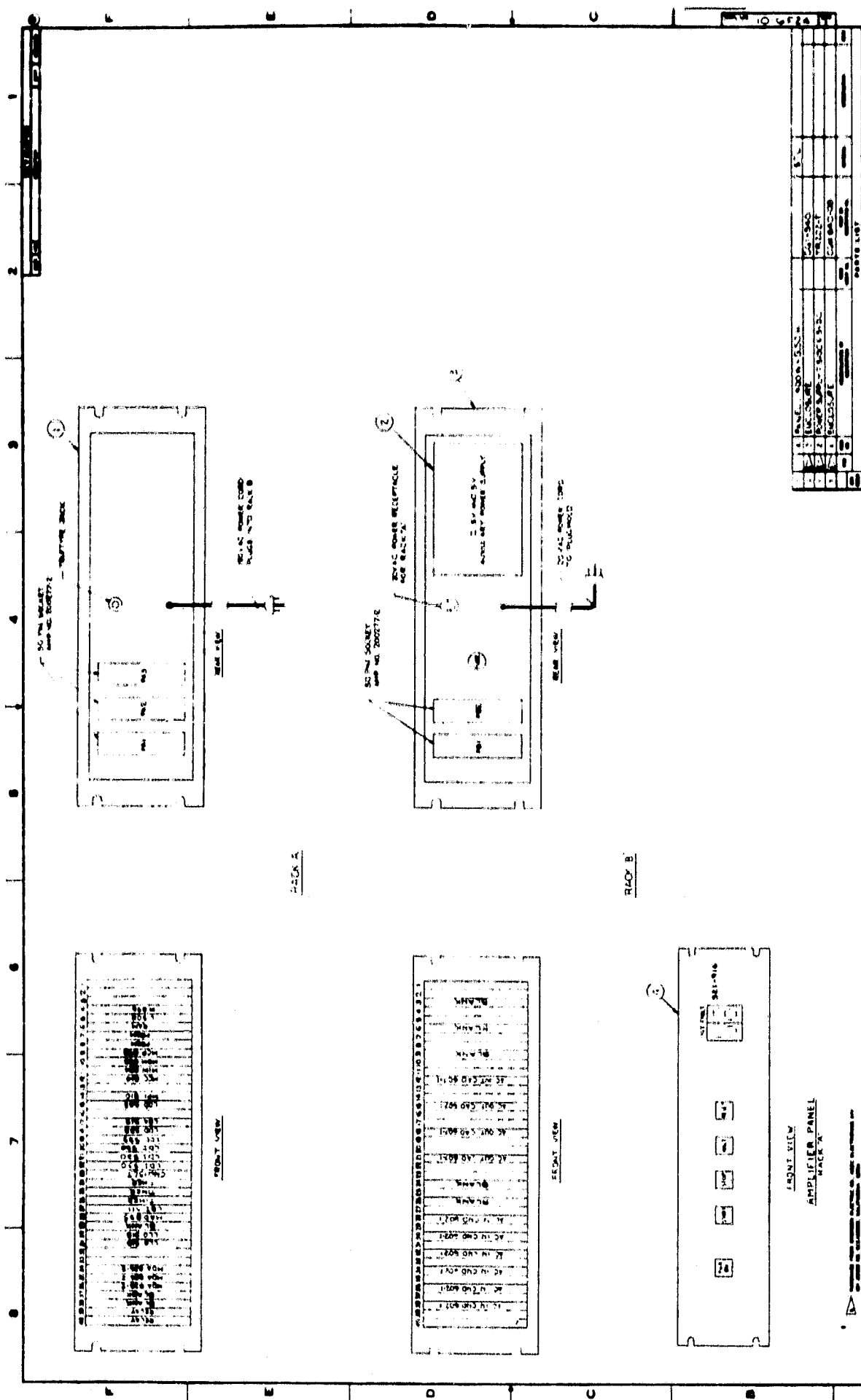
ALARM LOW HYDRAULIC FLUID PRESSURE.

RELAY PANEL WILL BE LOCATED IN THE CABINET.



PARTS LIST	
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16F23



RACK A

RACK B

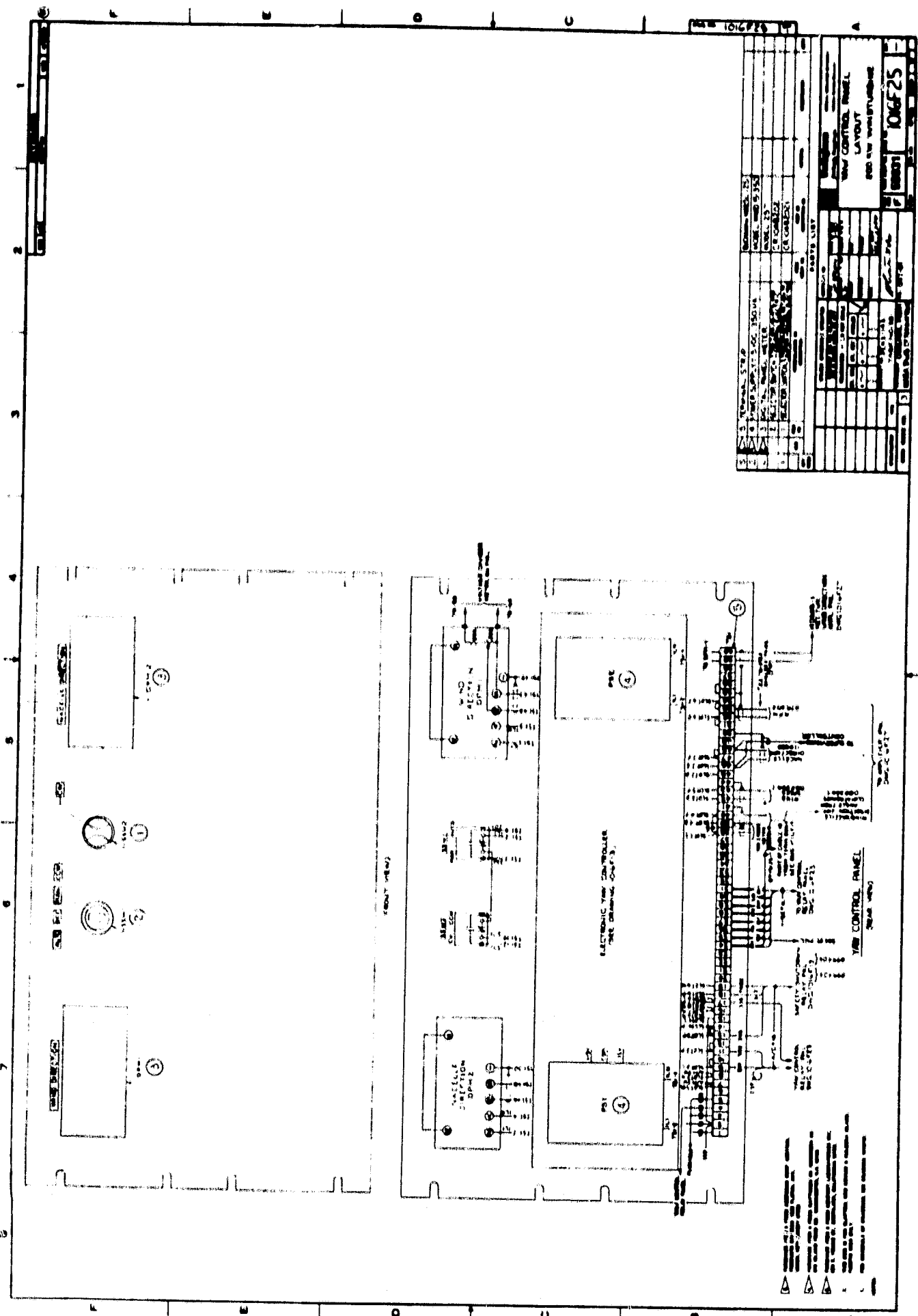
FRONT VIEW
AMPLIFIED PANEL
RACK A

PART LIST	
1	FRONT PANEL
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MICRO PROCESSOR CONTROL CARD
LOCATION: RACK A B
DOOR LATCH

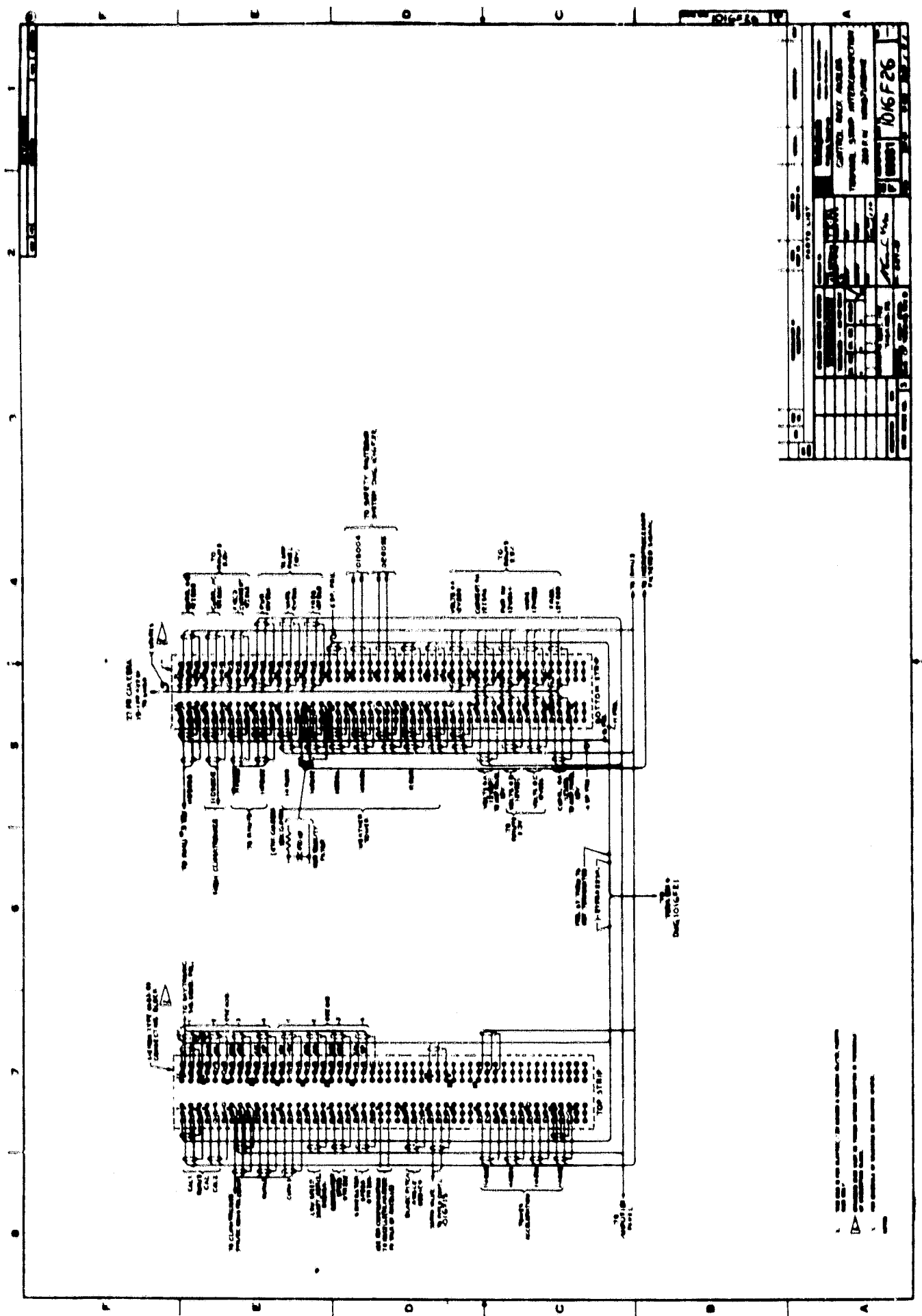
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0370



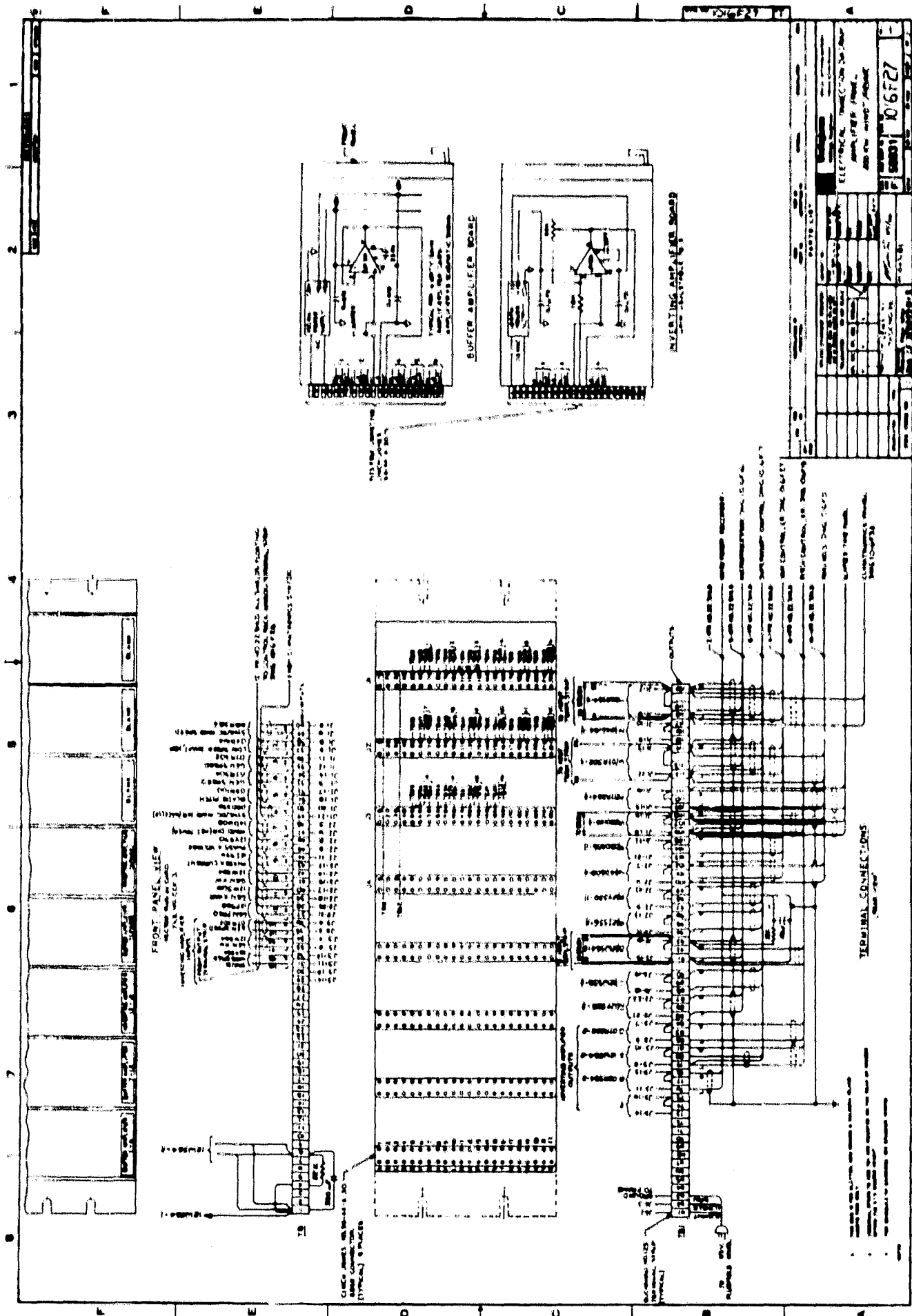
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YAW CONTROL PANEL LAYOUT FOR THE YAW/ROLL/HEAVE	
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PROJECT NO.	
DATE	
SCALE	
DRWG. NO.	1016 F 26
CUSTOMER	...
DESIGNER	
CHECKED BY	
APPROVED BY	

Notes:
 1. ...
 2. ...
 3. ...



FRONT PANEL VIEW
SEE FIG. 10672-1

- 10672-1-1
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- 10672-1-100

CABLE PANEL, 30-PIN, 30-PIN, 30-PIN
SEE FIG. 10672-1

BUFFER AMPLIFIER BOARD

INVERTING AMPLIFIER BOARD

TERMINAL CONNECTIONS

10672
ELECTRONIC BOARD (C-10) FOR THE...
JAMES H. ...

1	2	3	4	5	6	7
<p>ORIGINAL PAGE IS OF POOR QUALITY</p>						
<p>1. THE ABOVE LISTED ITEMS ARE THE ONLY ITEMS WHICH WERE OBSERVED AT THE LOCATION OF THE SUBJECT'S HOME AT THE TIME OF THE SEARCH.</p> <p>2. THE ABOVE LISTED ITEMS WERE OBSERVED AT THE LOCATION OF THE SUBJECT'S HOME AT THE TIME OF THE SEARCH.</p> <p>3. THE ABOVE LISTED ITEMS WERE OBSERVED AT THE LOCATION OF THE SUBJECT'S HOME AT THE TIME OF THE SEARCH.</p> <p>4. THE ABOVE LISTED ITEMS WERE OBSERVED AT THE LOCATION OF THE SUBJECT'S HOME AT THE TIME OF THE SEARCH.</p> <p>5. THE ABOVE LISTED ITEMS WERE OBSERVED AT THE LOCATION OF THE SUBJECT'S HOME AT THE TIME OF THE SEARCH.</p> <p>6. THE ABOVE LISTED ITEMS WERE OBSERVED AT THE LOCATION OF THE SUBJECT'S HOME AT THE TIME OF THE SEARCH.</p> <p>7. THE ABOVE LISTED ITEMS WERE OBSERVED AT THE LOCATION OF THE SUBJECT'S HOME AT THE TIME OF THE SEARCH.</p> <p>8. THE ABOVE LISTED ITEMS WERE OBSERVED AT THE LOCATION OF THE SUBJECT'S HOME AT THE TIME OF THE SEARCH.</p> <p>9. THE ABOVE LISTED ITEMS WERE OBSERVED AT THE LOCATION OF THE SUBJECT'S HOME AT THE TIME OF THE SEARCH.</p> <p>10. THE ABOVE LISTED ITEMS WERE OBSERVED AT THE LOCATION OF THE SUBJECT'S HOME AT THE TIME OF THE SEARCH.</p>						

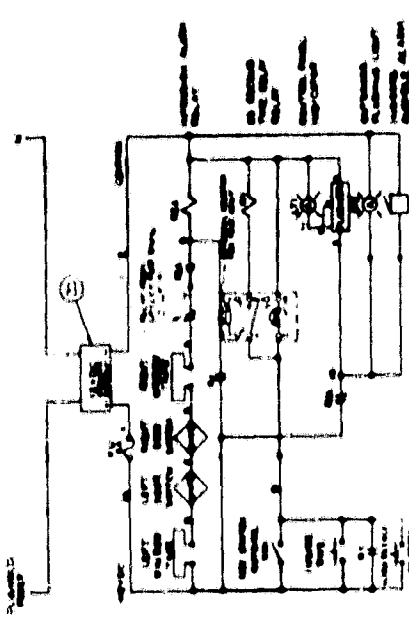
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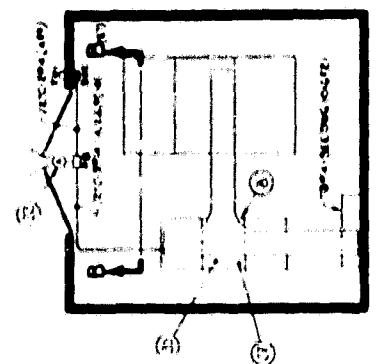
APR 1968

FBI - NEW YORK

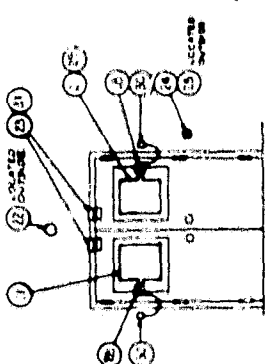
101626



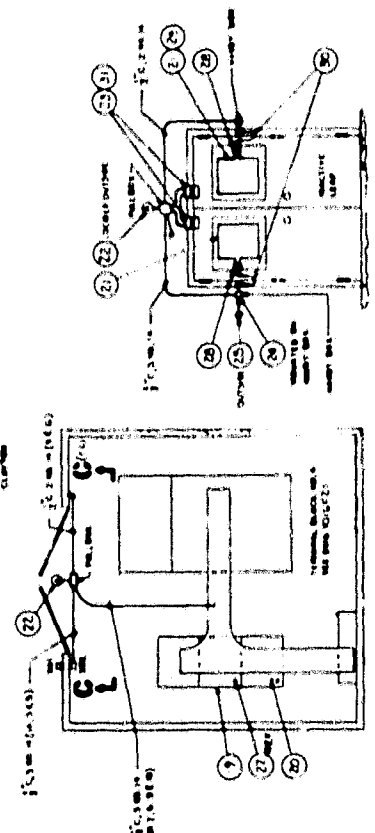
REVERSE POLARITY PROTECTION



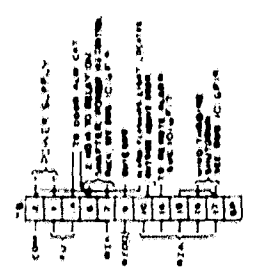
POWER SUPPLY
RELAY
TIMER
CONTROL SIGNAL
STOP
LOAD



POWER SUPPLY
RELAY
TIMER
CONTROL SIGNAL
STOP
LOAD



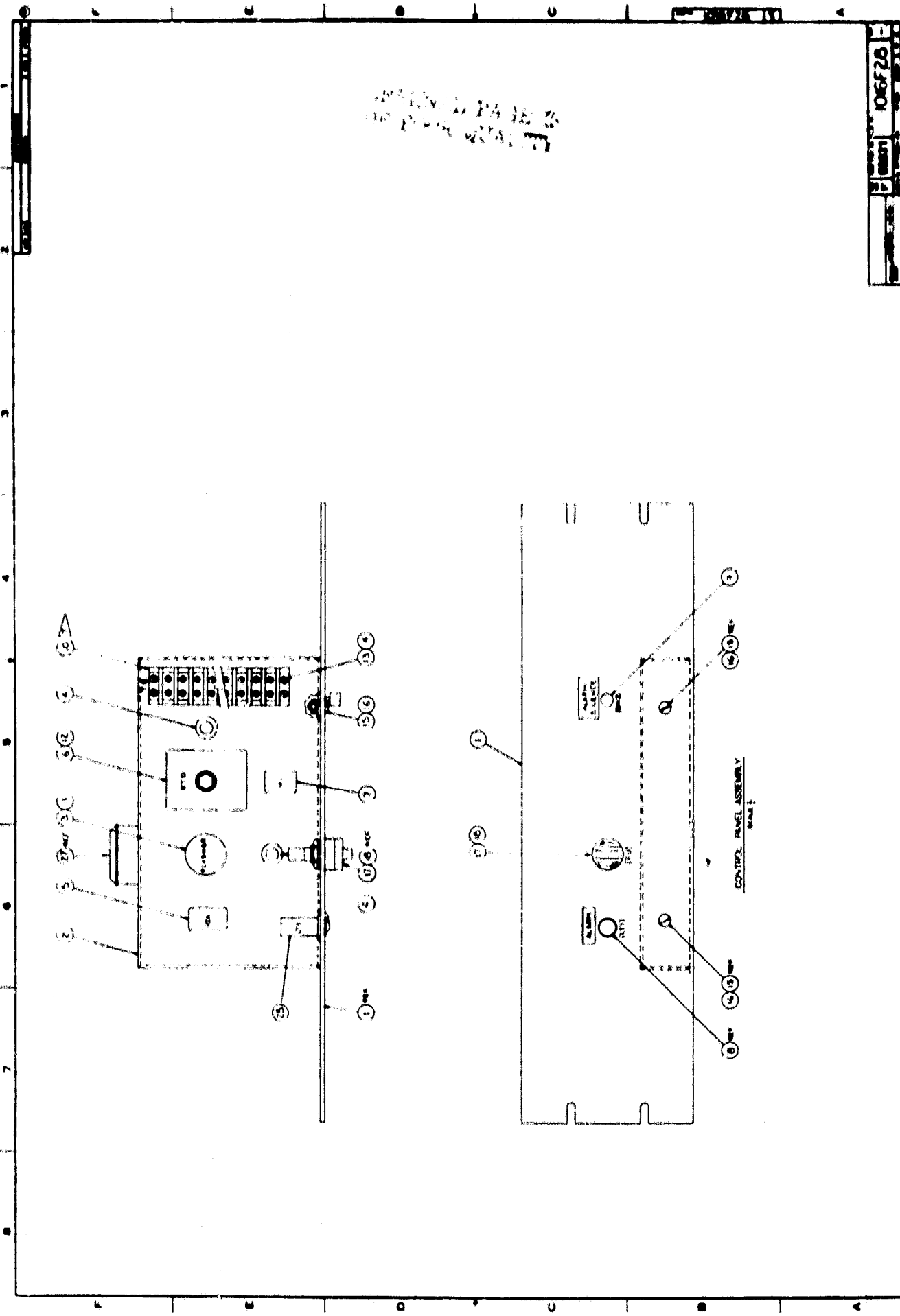
POWER SUPPLY
RELAY
TIMER
CONTROL SIGNAL
STOP
LOAD



TERMINAL CONNECTIONS

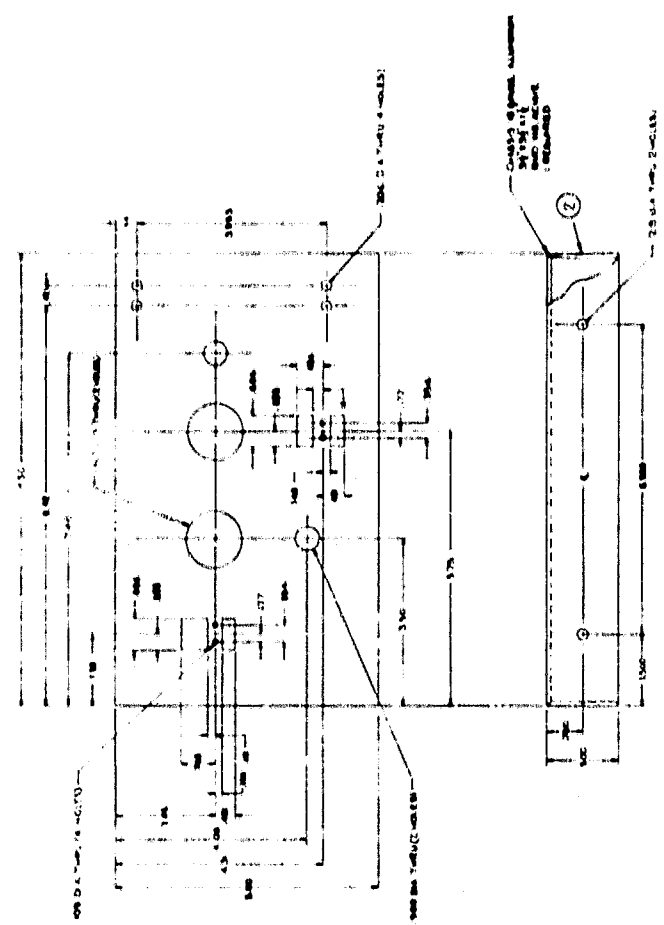
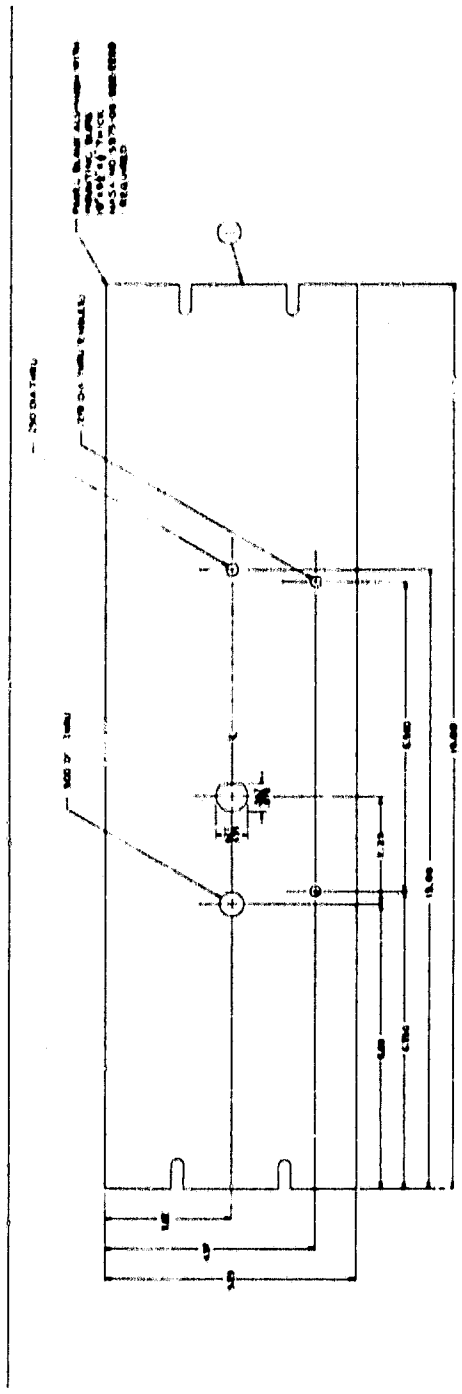
GROUP NO.	PART NO.
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2	1016700-2

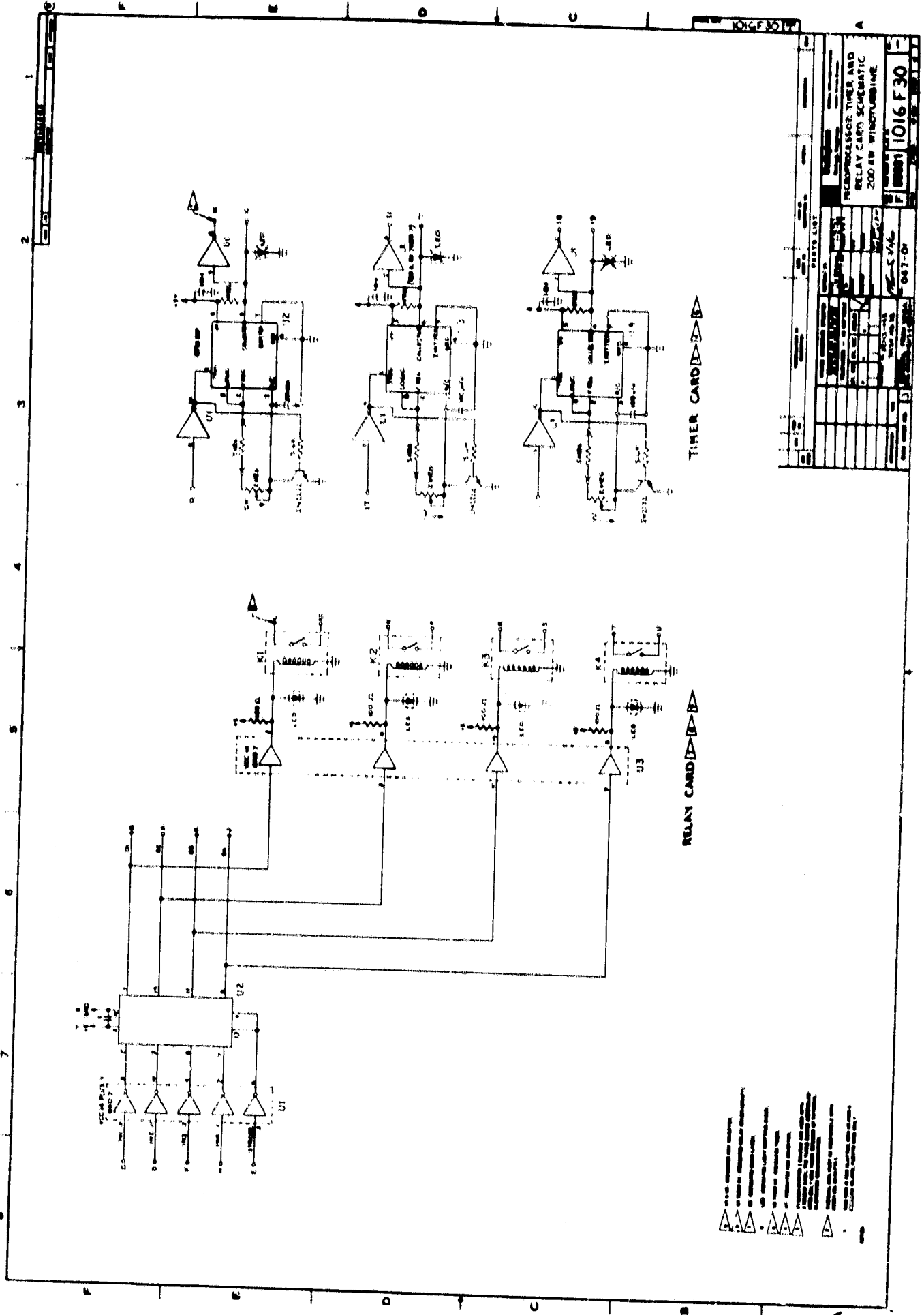




106F2A
 CONTROL PANEL ASSEMBLY

106F2A
 CONTROL PANEL ASSEMBLY





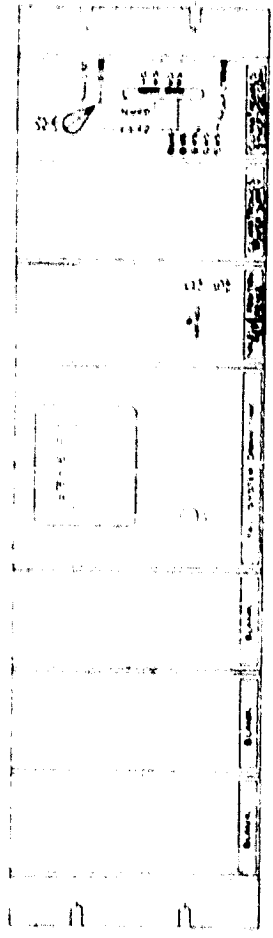
TIMER CARD

RELAY CARD

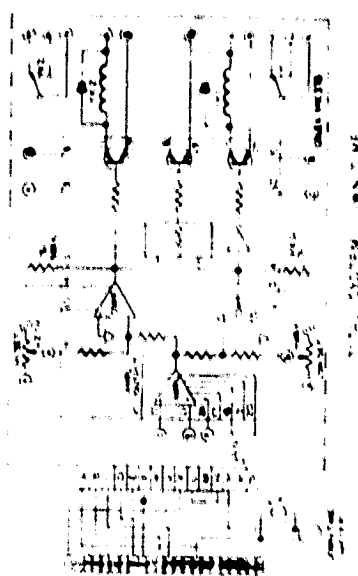
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- ▲ U2
- ▲ U3
- ▲ K1
- ▲ K2
- ▲ K3
- ▲ K4

1016 F30			
MICROPROCESSOR TIMER AND RELAY CARD SCHEMATIC			
200 RW WINDFLOW LINE			
DATE	04-7-01		
DESIGNER	...		
CHECKED	...		
APPROVED	...		
PARTS LIST			
NO.	DESCRIPTION	QTY	REF.
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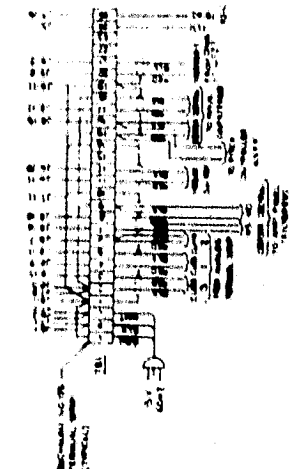
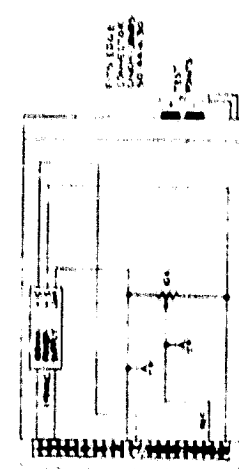
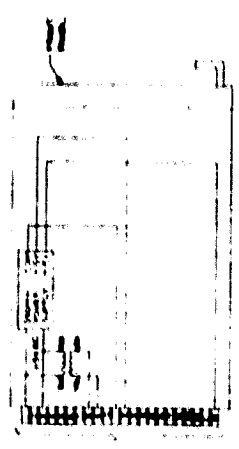
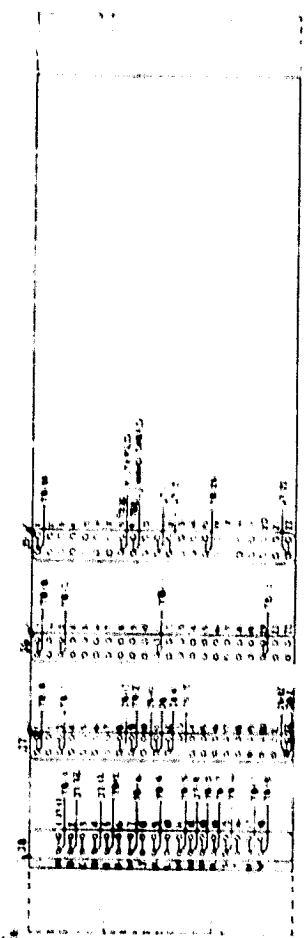
1 2 3 4 5 6 7 8



FRONT PANEL VIEW
 (SEE NOTE 1)
 (SEE NOTE 2)



WIRE SYSTEM SCHEMATIC



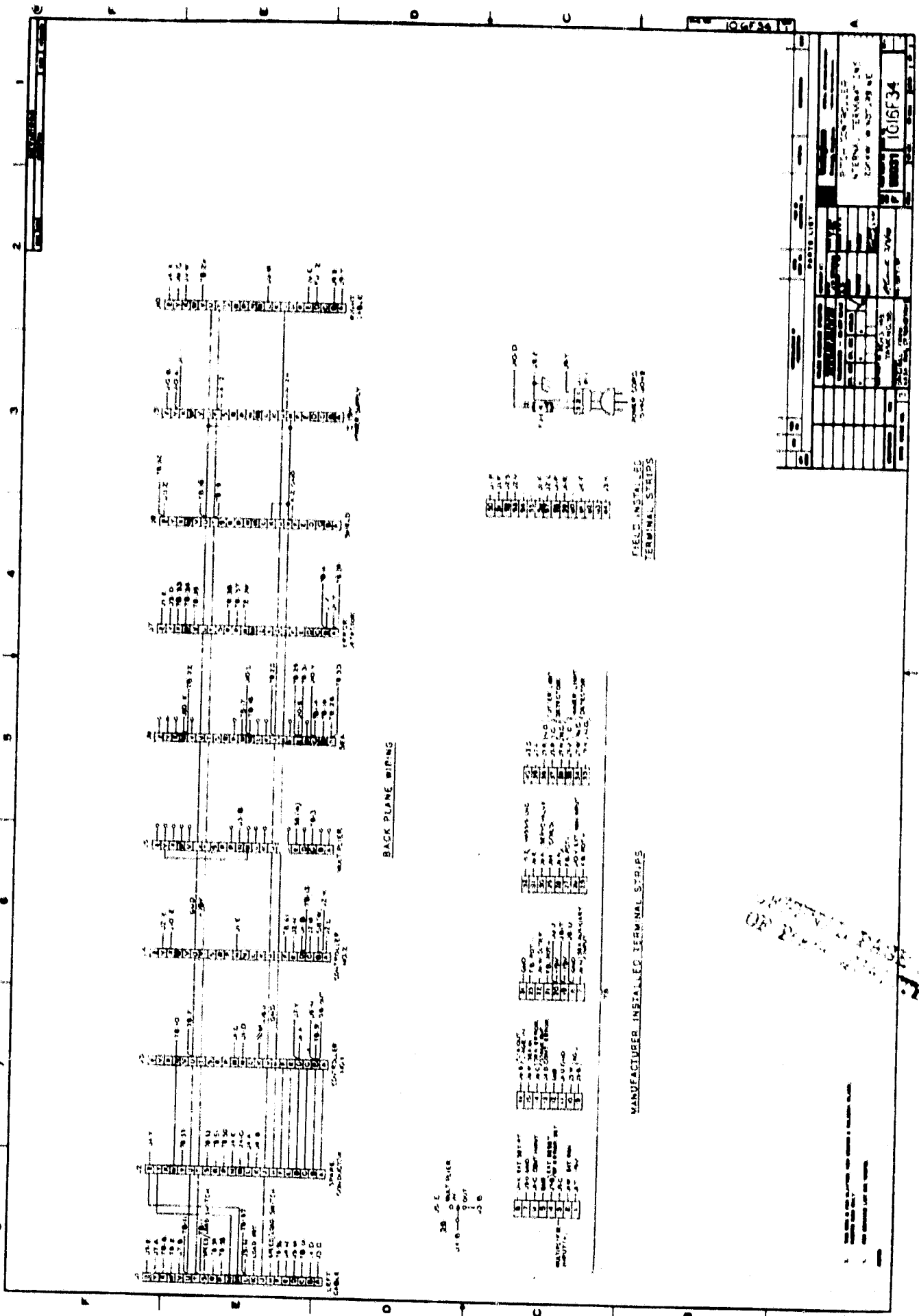
PARTS LIST	
QTY	DESCRIPTION
1	CLIMATIC REFERENCE BOARD
1	A.C. POWER SUPPLY BOARD
1	MAGNETIC POSITION REFERENCE BOARD
1	CONTROL SYSTEM BOARD
1	FRONT PANEL
1	TERMINAL BLOCK
1	WIRE SYSTEM

TERMINAL CONNECTION DIAGRAM
 (FROM VIEW 1)

1. SEE NOTE 1 FOR WIRE SYSTEM SCHEMATIC.
2. SEE NOTE 2 FOR FRONT PANEL VIEW.
3. SEE NOTE 3 FOR MAGNETIC POSITION REFERENCE BOARD.
4. SEE NOTE 4 FOR CONTROL SYSTEM BOARD.

ELECTRICAL CONNECTION DIAGRAM
 CLIMATIC REFERENCE BOARD
 A.C. POWER SUPPLY BOARD

106F33

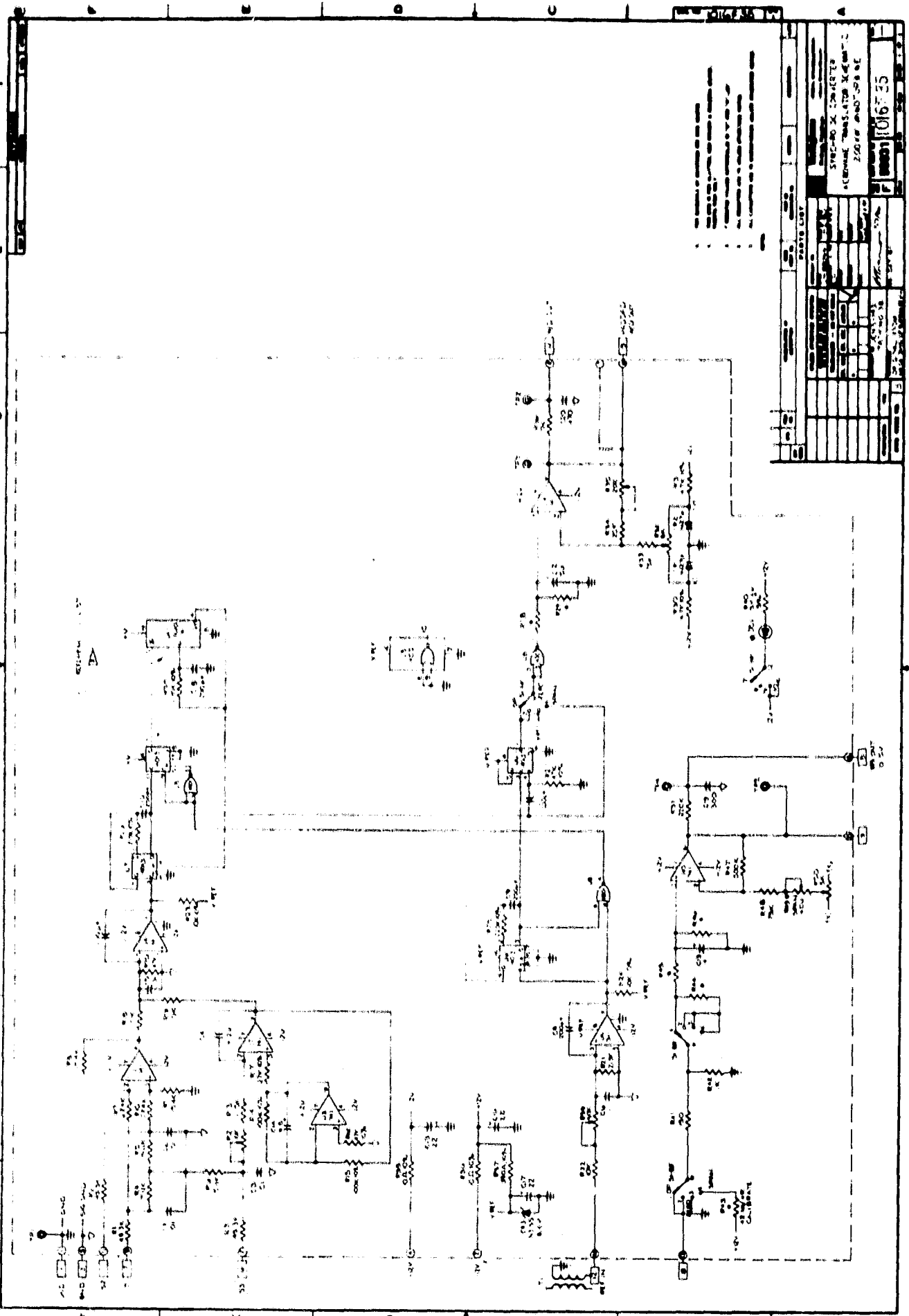


MANUFACTURER INSTALLED TERMINAL STRIPS

1. THE CABLES SHOWN ON THIS DRAWING ARE TO BE INSTALLED IN THE TRAYS SHOWN.

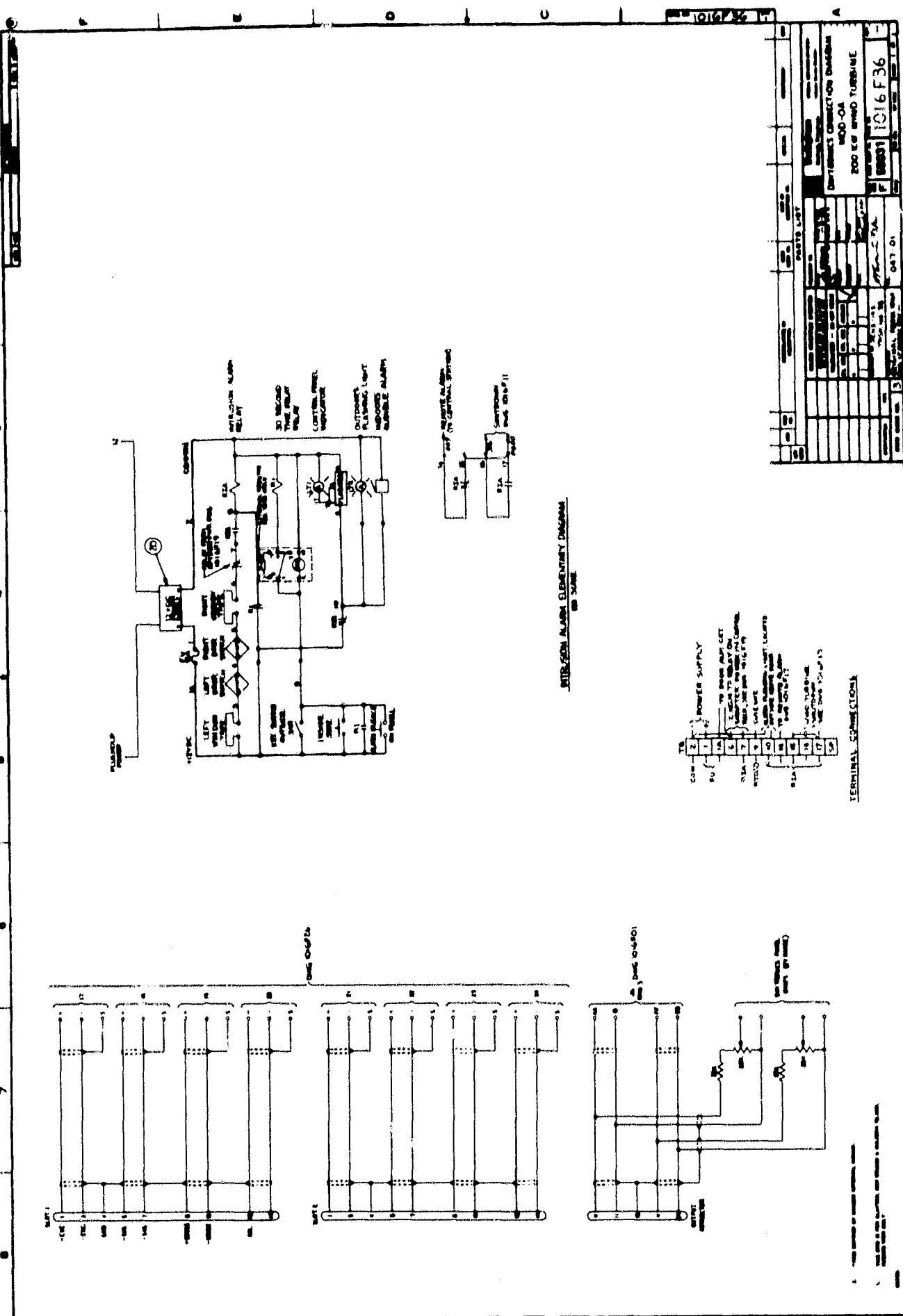
2. THE CABLES SHOWN ON THIS DRAWING ARE TO BE INSTALLED IN THE TRAYS SHOWN.

DATE LIST		PROJECT		JOB NO.	
DATE	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION
10/16/34	1016F34				

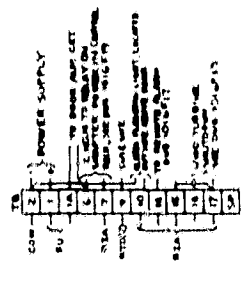


PARTS LIST	
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4	6AV6
5	6BE6
6	6BD6
7	6BE6
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3102-002-200172
 General Radios & Electronics
 25000 10/6/35



INTERCOM ALARM ELEMENTARY DIAGRAM



NO. OF PAGES	3
NO. OF SHEETS	1
TITLE	INTERCOM ALARM ELEMENTARY DIAGRAM
DATE	047-01
REVISION	
BY	
CHECKED BY	
APPROVED BY	
DESIGNED BY	
DRAWN BY	
TESTED BY	
DATE TESTED	
TEST REPORT NO.	
PROJECT NO.	1016 F36
ORGANIZATION	200 CG WIND TURBINE
UNIT	
ADDRESS	
CITY	
STATE	
COUNTRY	