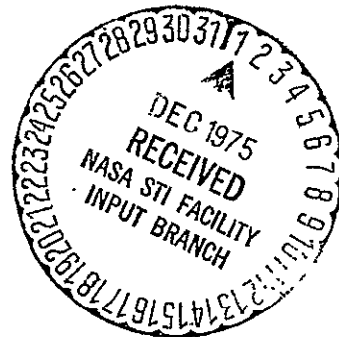


CORRELATION STUDY OF
FINITE ELEMENT ANALYSIS

Grant NGL 26-006-021
National Aeronautics and Space
Administration
Langley Research Center

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Cahokia, Illinois



SUMMARY

This study was undertaken to investigate and prove the correlation between the NASTRAN predicted stresses and those measured on an actual structure. NASTRAN is a general purpose digital computer program for the analysis of large complex structures.

For many years the art of structural analysis remained stagnant, not because of any lack of knowledge on the part of the analyst but because of a lack of capability for performing the required numerical computations. In 1941 Hrennikoff introduced a theory idealizing a flat plate as a grid work of beams. This has lead to modeling complex structures by an assemblage of a finite number of elastic components. Matrix formulations were developed as a means of organizing the bookkeeping. Numerical solution was still laborious as the analyst was still limited by the desk calculator and the inversion of a matrix of any size was a formidable exercise. Fortunately the digital computer arrived on the scene at about this time.

(NASA-CR-145709) CORRELATION STUDY OF
FINITE ELEMENT ANALYSIS (Saint Louis Univ.,
Cahokia, Ill.) 215 p HC \$7.75 CSCI 20K

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The matrix methods of structural analysis developed for use on modern digital computers provide a means for rapid and accurate analysis of complex structures under both static and dynamic loading conditions. Two complementary matrix methods of formulation of any structural problems are possible: (1) the displacement method (stiffness method), where displacement is chosen as unknowns and (2) the force method (flexibility method) where forces are unknowns. The NASTRAN program uses the first of the two methods, i.e., the displacement method.

The structural analyst wishes to know or to be able to determine the stress or load distribution in a structure. In modeling a structure as an aggregate of elastic elements the analyst should decide on the locations where the magnitude of the stress must be known. The model would then be designed to produce results at those points. In order to use the NASTRAN program the continuous structure must be modeled as a finite number of degrees of freedom, a particular selection of topological objects (grid points and elements) and a limited range of structural behavior. This procedure, referred to as "structural modeling" is the most important step in the problem formulation phase, since the results of an analysis can be no better than the initial assumptions. The model used in this study contains grid points, bar elements, rod elements, triangular plate elements, and quadrilateral plate elements.

REPORT

The purpose of this study is to investigate and prove the correlation between computed stresses and those measured on an

actual structure. The general purpose digital computer program for the analysis of large complex structure known as NASTRAN is used to obtain the computed stresses. A real airframe, which had logged several thousand hours flying time, was obtained instrumented and loaded to obtain the measured strains.

The structural analyst wishes to know or to be able to determine the stress or load distribution in a structure. In modeling a structure as an aggregate of elastic elements, the analyst should decide on the locations where the magnitude of the stress must be known. The model would then be designed to produce results at these points. In order to use the NASTRAN program, the continuous structure must be modeled as an assemblage of a finite number of elastic components. This assemblage must be a particular selection of topological objects (grid points and elements) and have a limited range of structural behavior. The selection of the assemblage, referred to as "structural modeling", is the most important step in the problem formulation phase as the results of an analysis can be no better than the initial assumptions.

The NASTRAN Program has been well developed and proven; however, each new problem requires a new structural model for use in the NASTRAN program. Many rules have been developed and presented to take some of the guess work out of preparing the structural model. This model determines the accuracy and value of the analyst's use of NASTRAN or any other similar program. The development of this structural model is then the major thrust of this study. Every effort is being made to construct a model

compatible with the real structure and to record any new findings, particularly, concerning the modeling around cutouts.

Finite Element Model

The model used in this study contains approximately 1720 nodal points, each of which may have six degrees of freedom, however, not all do. Some nodes have three degrees of freedom, i.e., three translations. Some also have three rotations for a total of 8200 degrees in the entire model. The elastic elements making up this model are bars, rods and panels. The bars have cross sectional area and moment of inertia about both the X and Y axes. The rods have only cross sectional area. The reason: some nodes only have three degrees of freedom, i.e., translation is that these nodes are only connected by rods which have no bending stiffness; therefore, no rotations. The panels or plate elements are triangular and quadrilateral. These plates only transfer shear forces. The model as presently constructed contains approximately 2200 rods, 1020 bars and 1445 plates for a total of 4665 elastic elements. Pages 7 through 98 show samples of this grid work making up the structural model. Pages 99 through 171 show the model as it has been checked by the computer.

As stated previously, a real airframe which had logged several thousand hours flying time was obtained and instrumented. The fuselage of a twin engine aircraft capable of carrying seven people was used. The fuselage is unsymmetrical in that the cutouts (windows and door) were not symmetrically placed. This airframe was instrumented with 283 linear and 88 Rosette strain

gages. These gages are located on stringers, bulkheads and skin, both at symmetrical and unsymmetrical sections. Pages 172 through 184 indicate the location of these gages.

The structure was loaded in two different manners. The first being a series of vertical loads located at the bulkheads causing bending along the longitudinal axis. This was achieved by means of a pulley, cable, whiffle-tree arrangement. Load cells are placed in the cables at bulkhead to monitor the applied loads. See pages 185 through 186 for details of this loading system. The second loading system is a combined bending twisting condition caused by applying an eccentric load in the place originally occupied by the horizontal stabilizer. See pages 187 through 188 for details of this system.

The strain gages are connected to a BLH 1200 digital strain indicator through a bank of low resistance switches. The BLH 1200 unit was in turn connected to an Anadex DP-650A printer which provides a permanent record of the strains. The BLH 1200 digital strain indicator is sensitive to ± 5 micro inches per inch of strain. As the material at each strain gage location is aluminum ($E = 10^7$ psi), the stress sensitivity is ± 50 psi.

CONCLUSION

As stated earlier the purpose of this study was to compare the real measured strains or stresses to those predicted by use of the NASTRAN Program. This has not been completed.

There have been several reasons for this delay. During the early months of this program, a lot of difficulty was experienced in obtaining data from Beech Aircraft for the airframe we were to

use for our test. The data we needed was finally obtained after nine or ten months work. The airframe was then instrument loaded and the strains recorded. This was of course all the physical work we could do here at Parks College. The remainder of the work consists of developing the mathematical model for use in the NASTRAN Program and obtaining the computed results. This has not been finished.

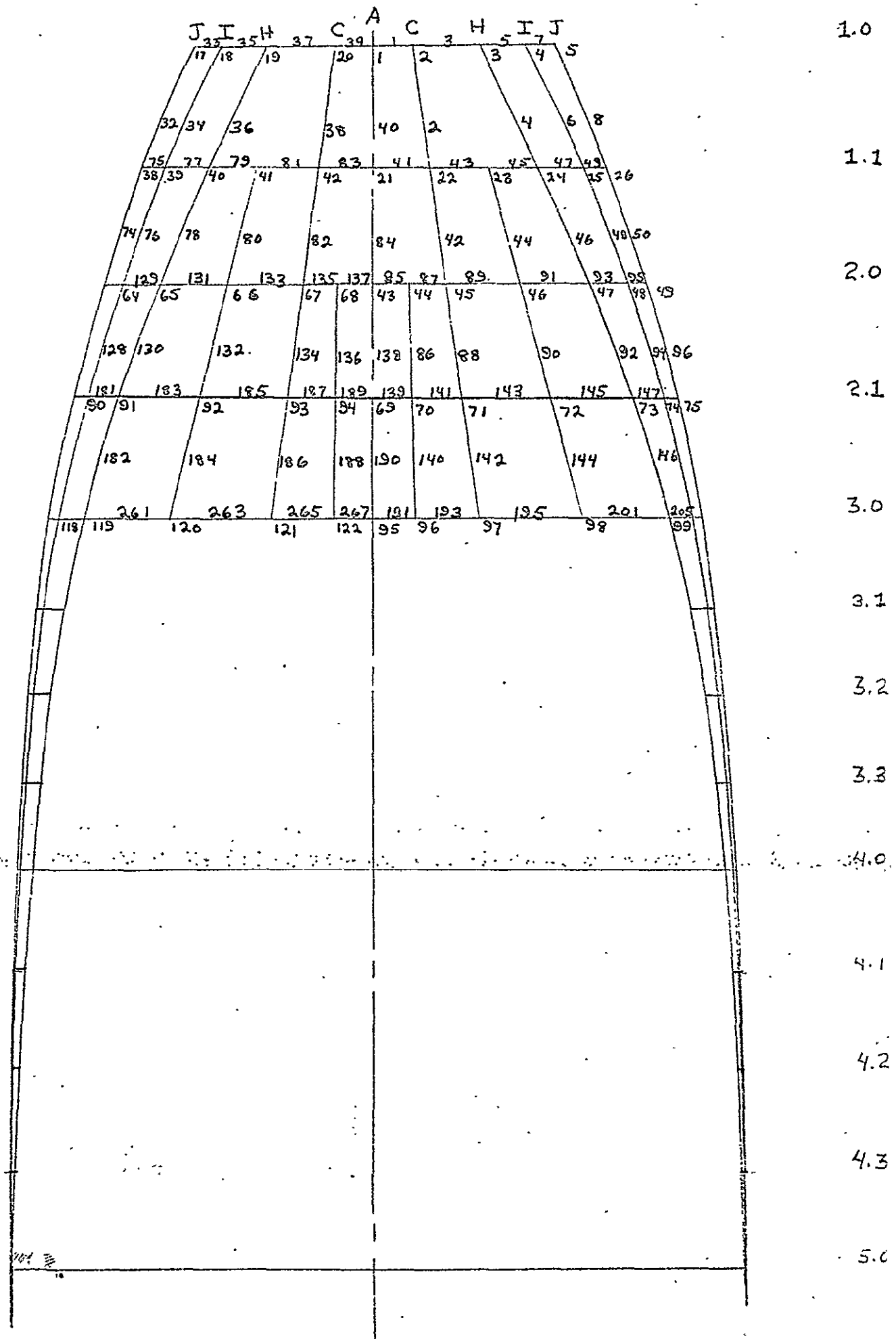
It might be well to point out here that Professors Rhodes and Long are teachers at Parks College and must meet with their students. Dr. Sobieszczanski is a research engineer at NASA-Langley Research Center, Hampton, Virginia. These other duties have prevented any of these people from devoting full time to this project.

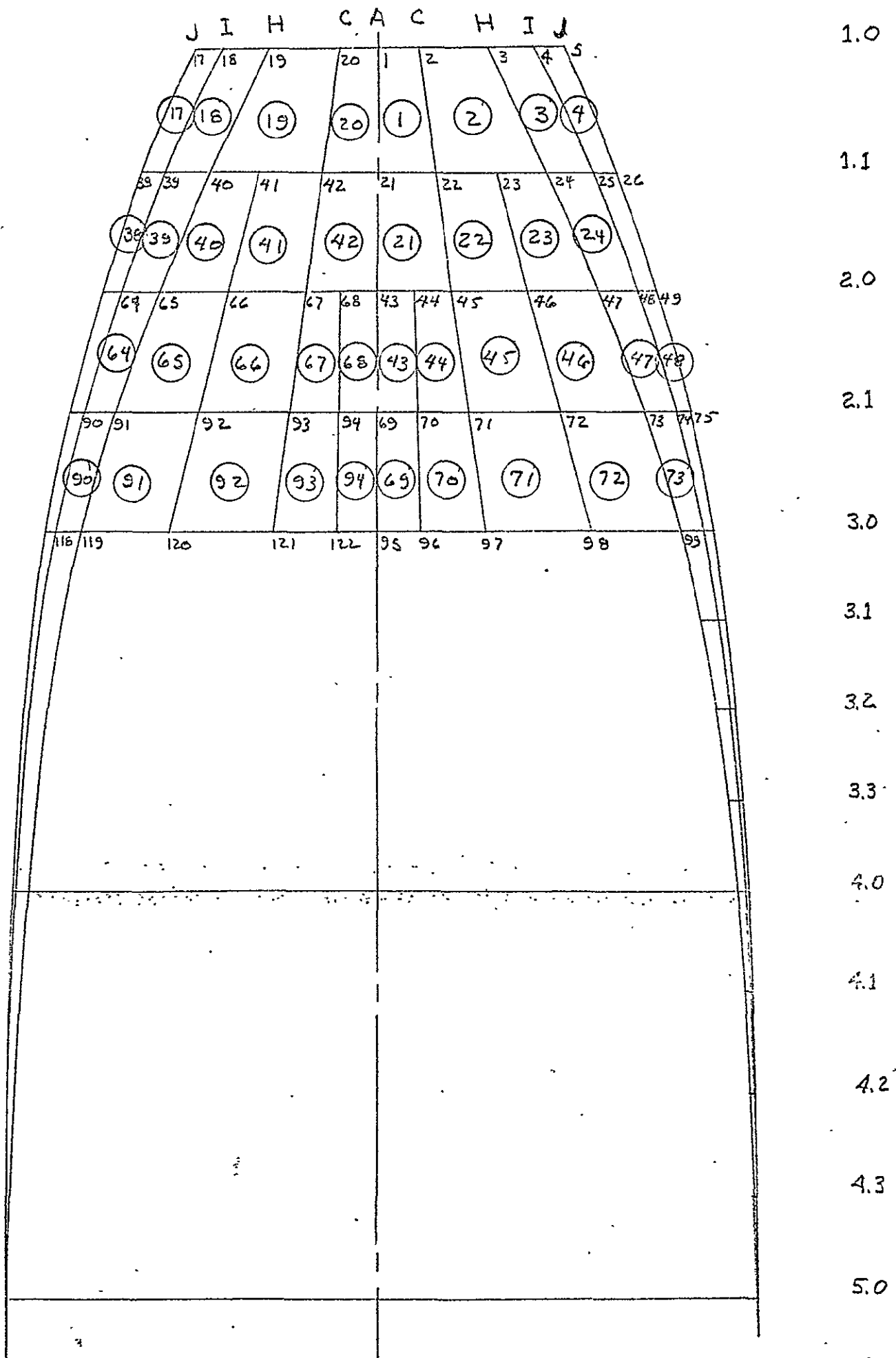
The original proposal stated that the computer work would be done at Langley Field. This has required correspondence between Parks College and Langley Field which has caused additional delay.

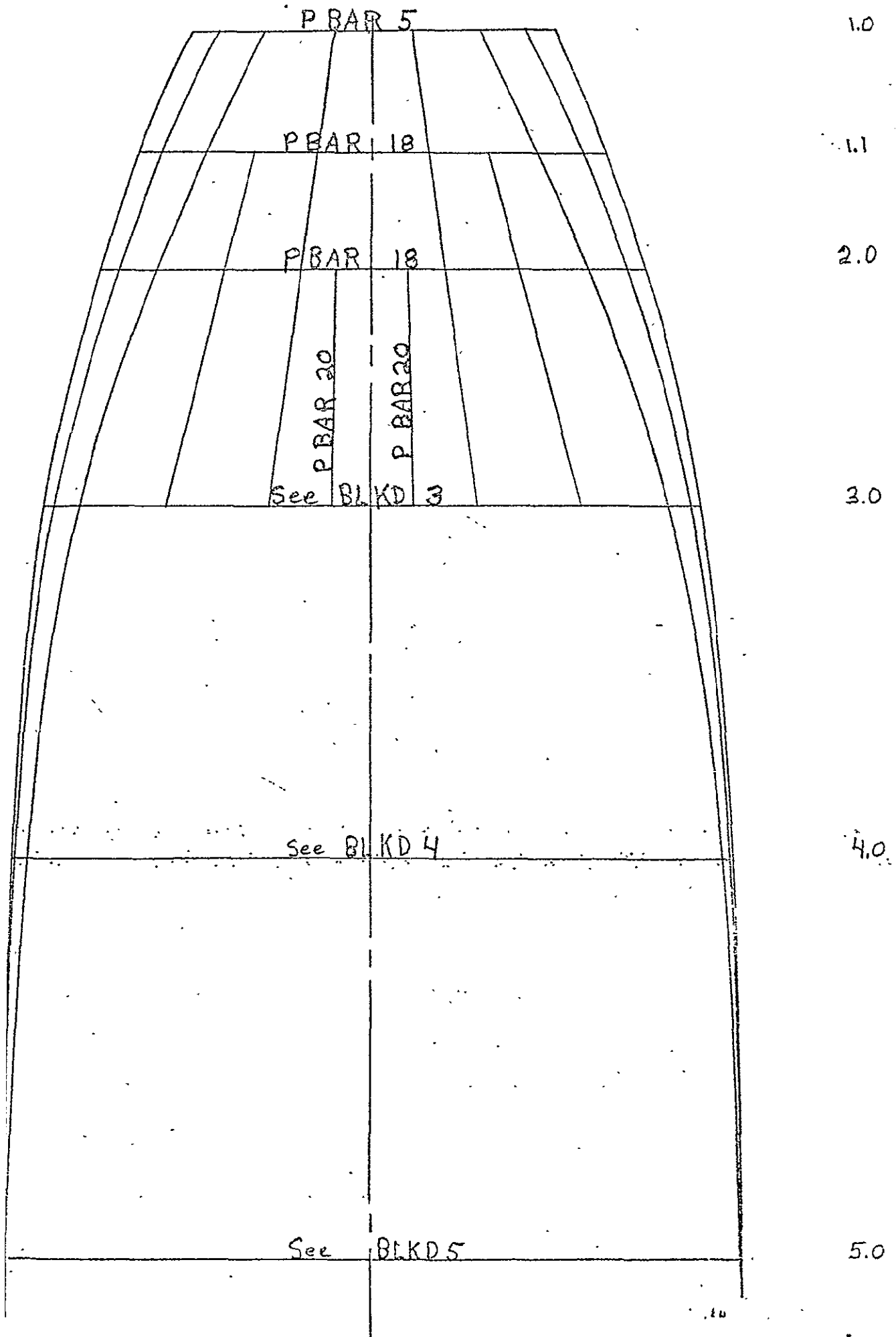
Copies of all work done here at Parks College are included with this report but as the computed results from the NASTRAN Program are not available, comparisons cannot be made and final results derived. This work will be done and forwarded to NASA as soon as it is available as an addendum to this report.

STRUCTURAL MODEL

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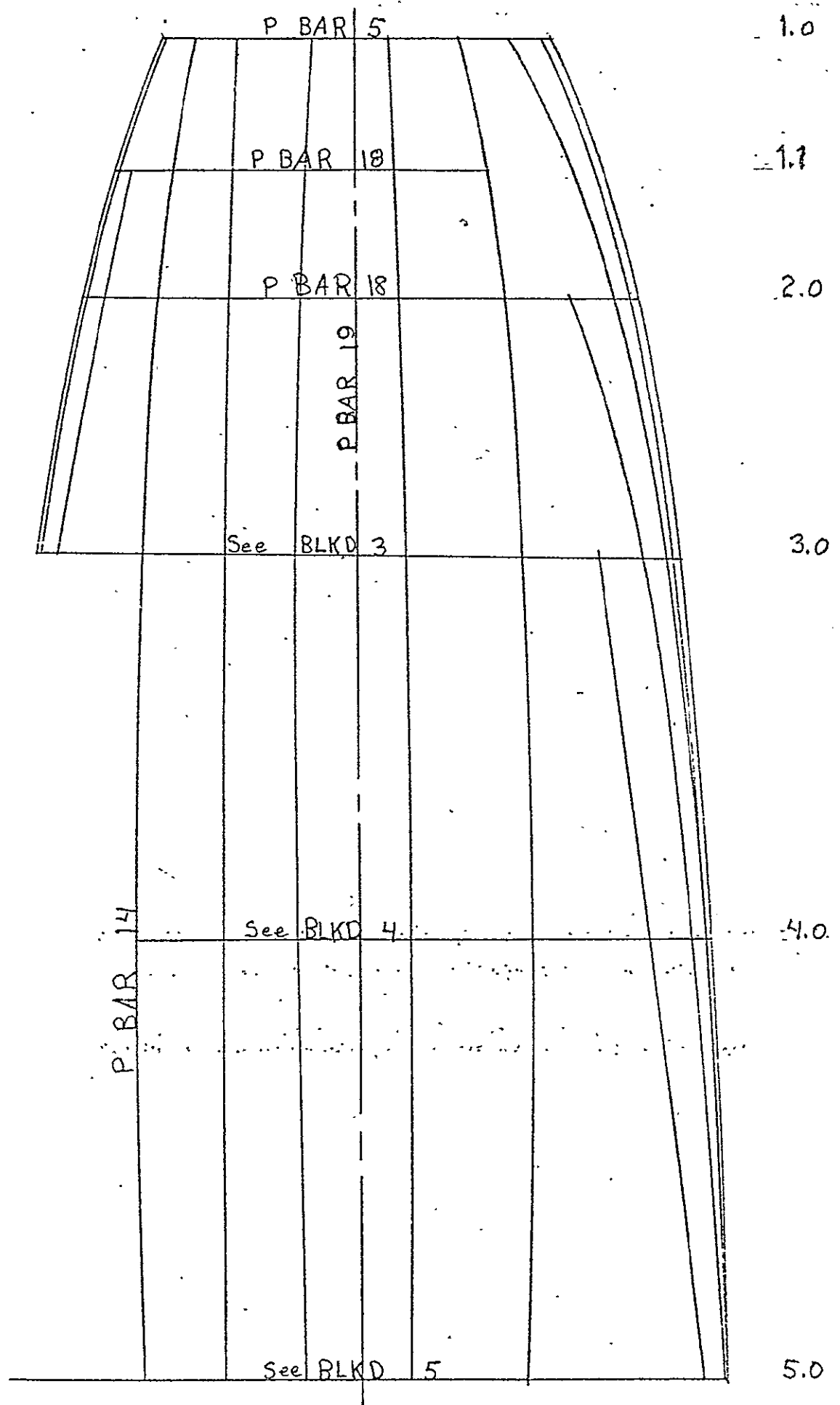


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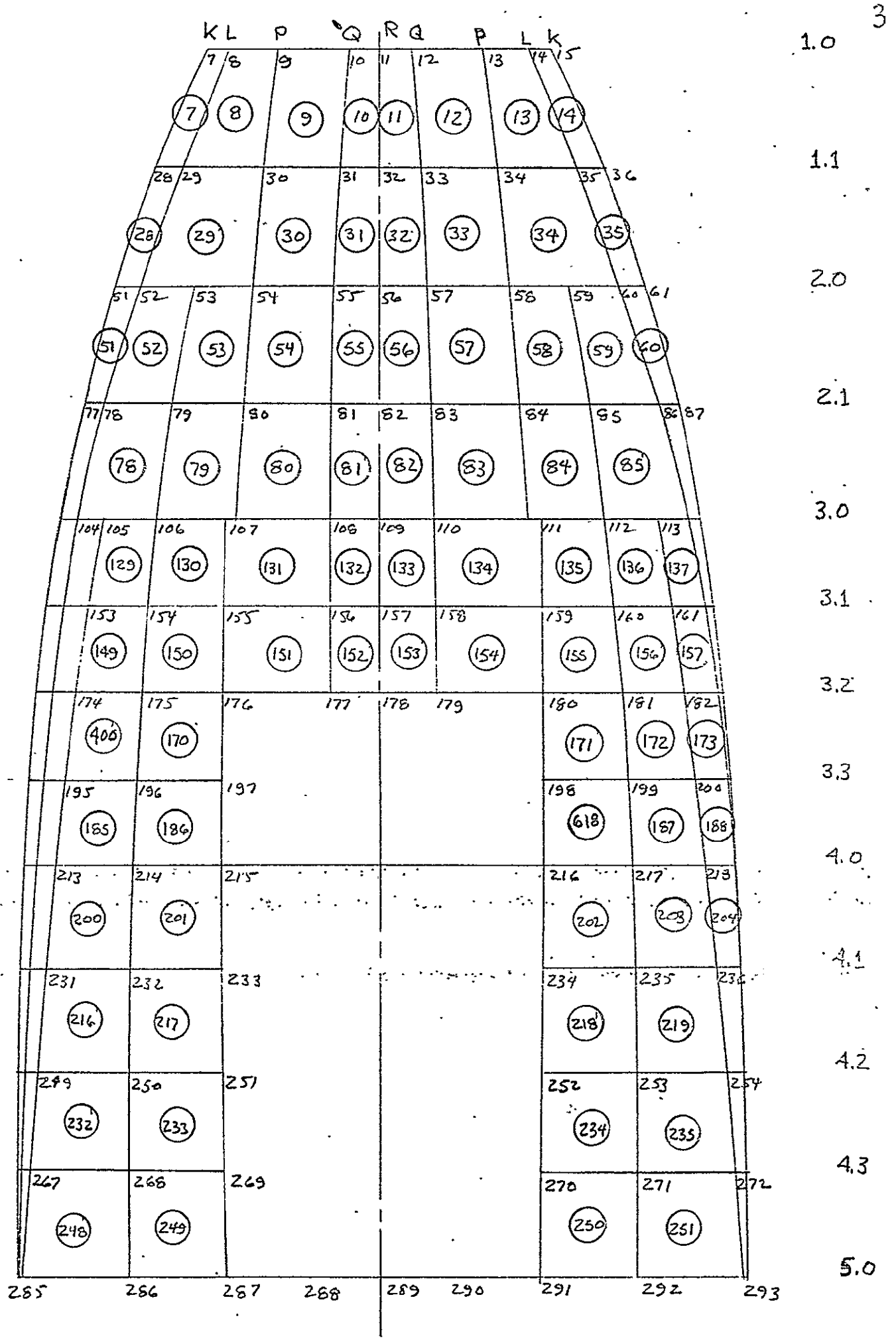
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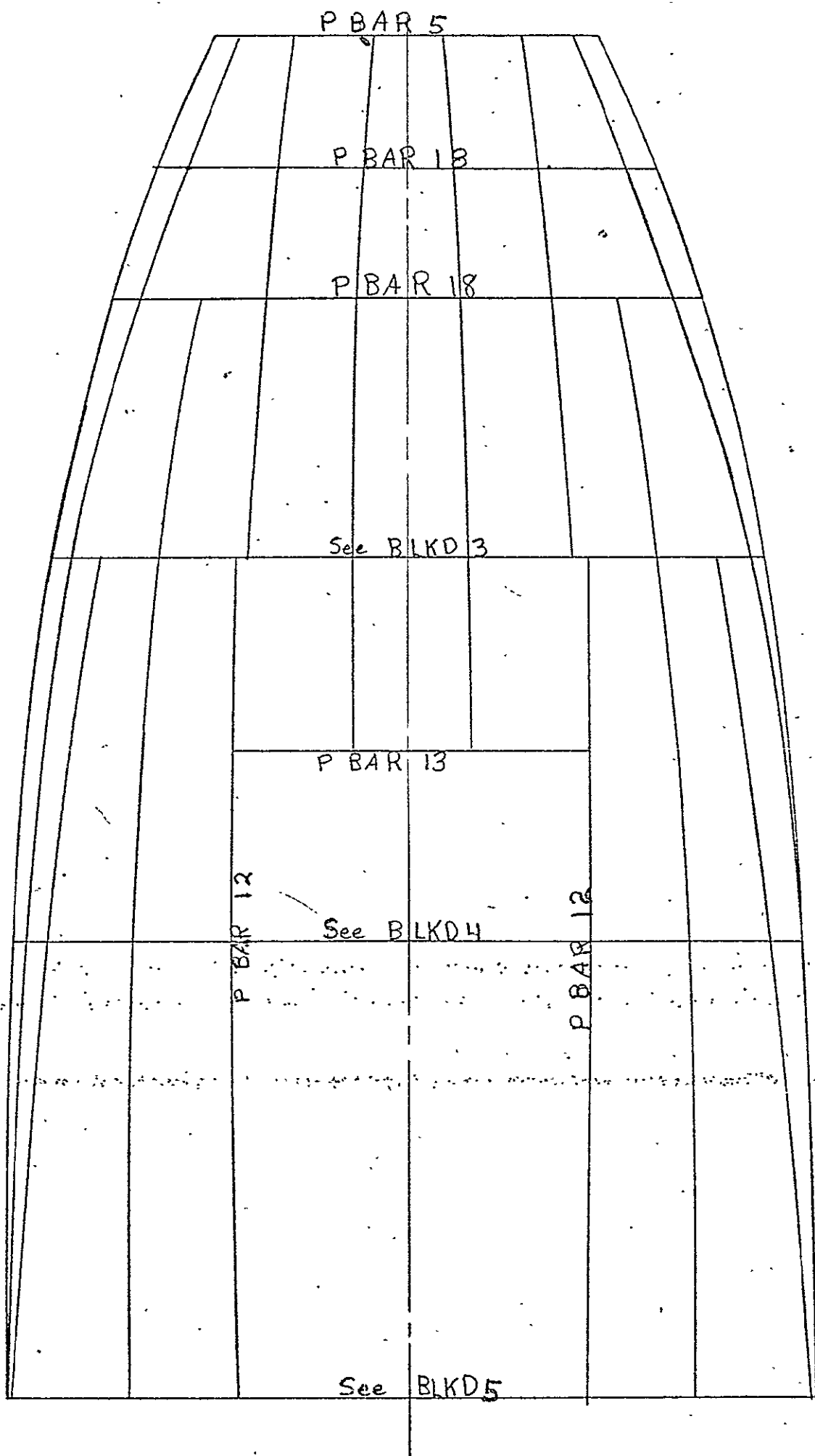
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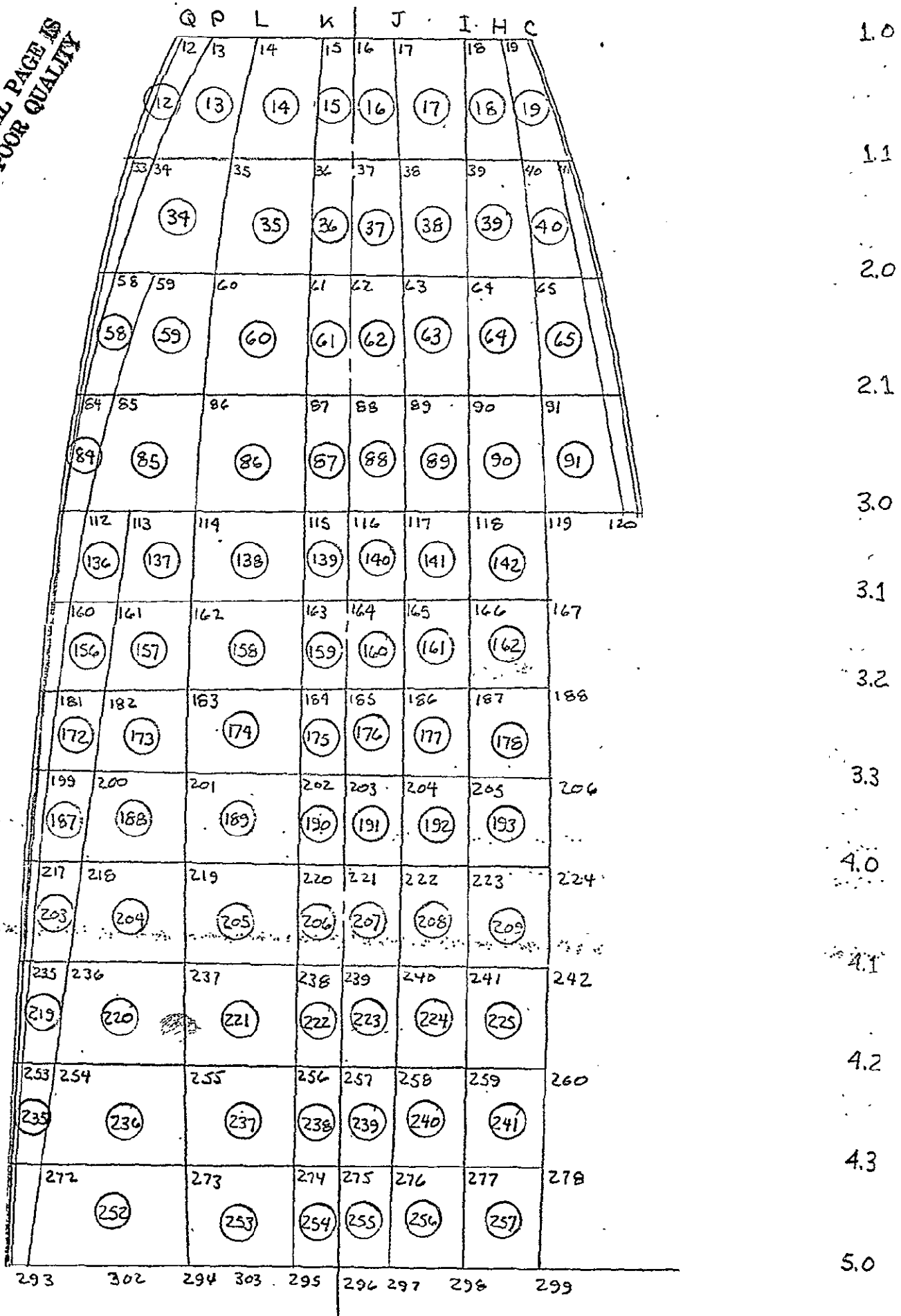
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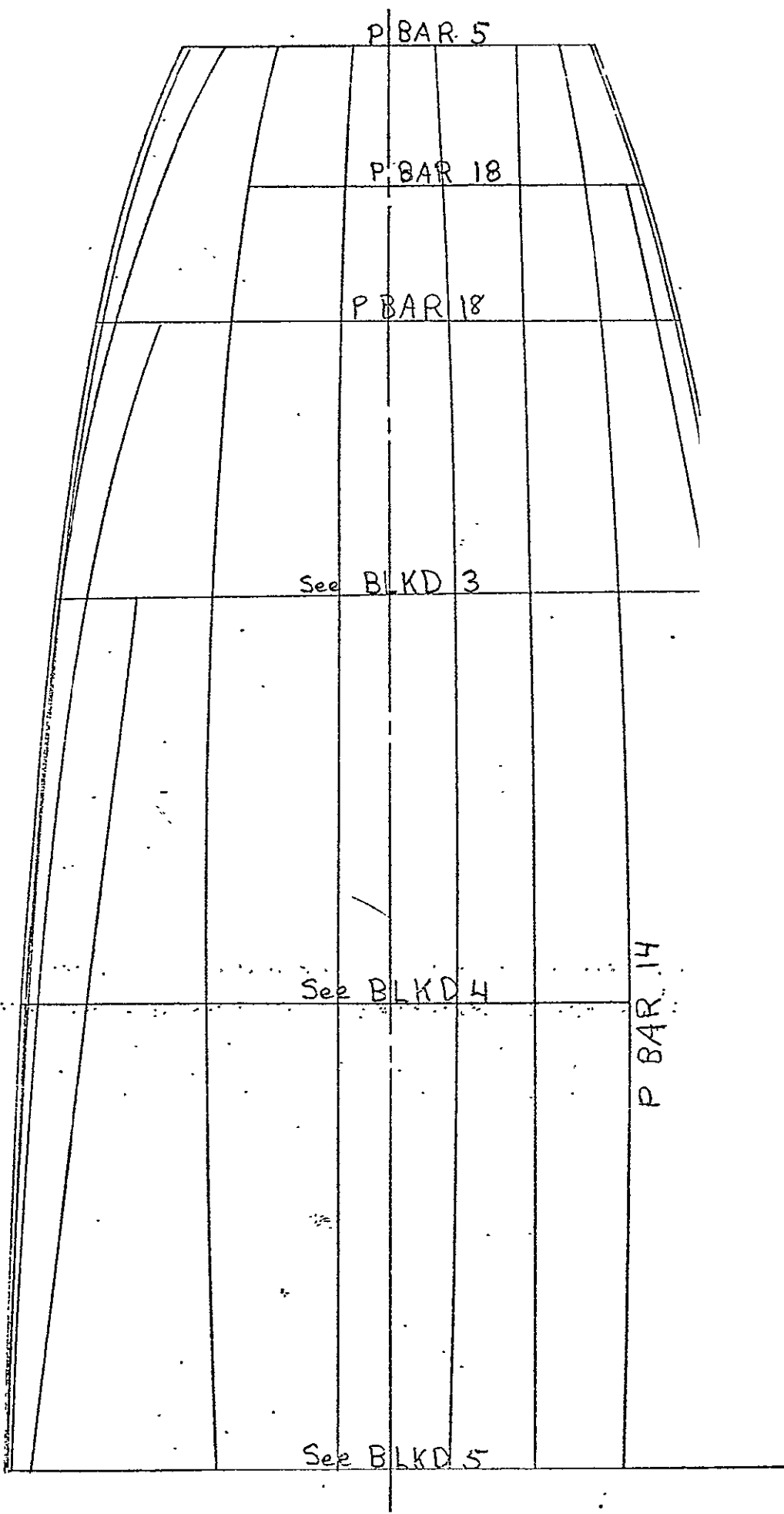
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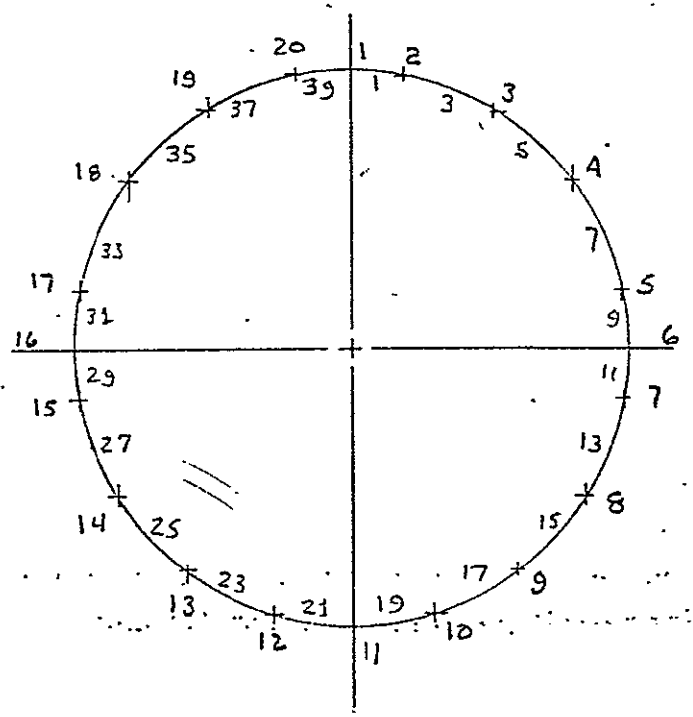
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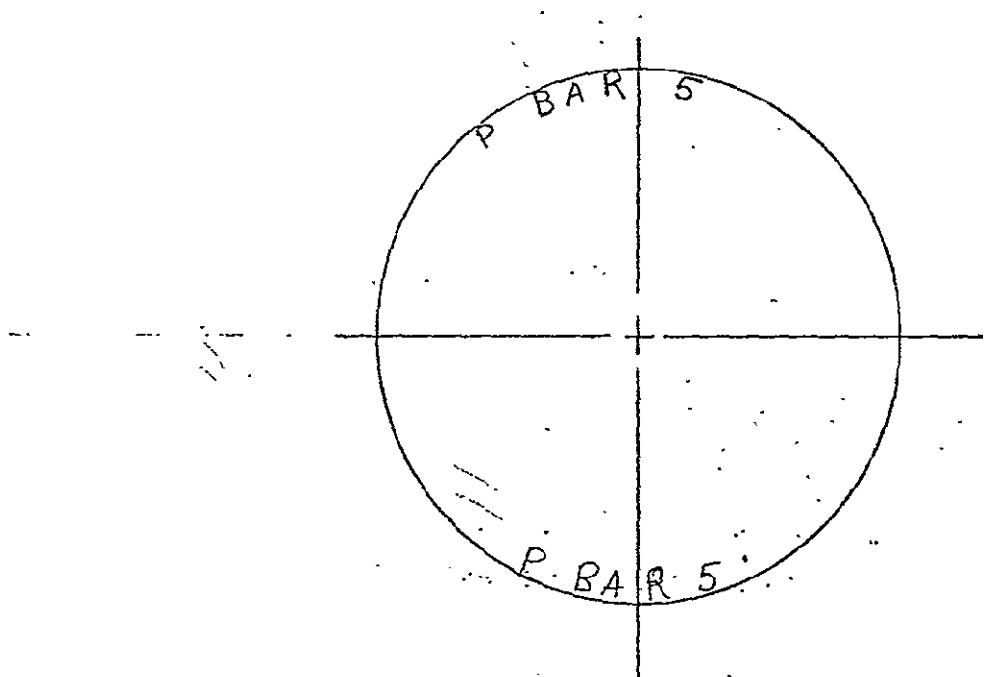
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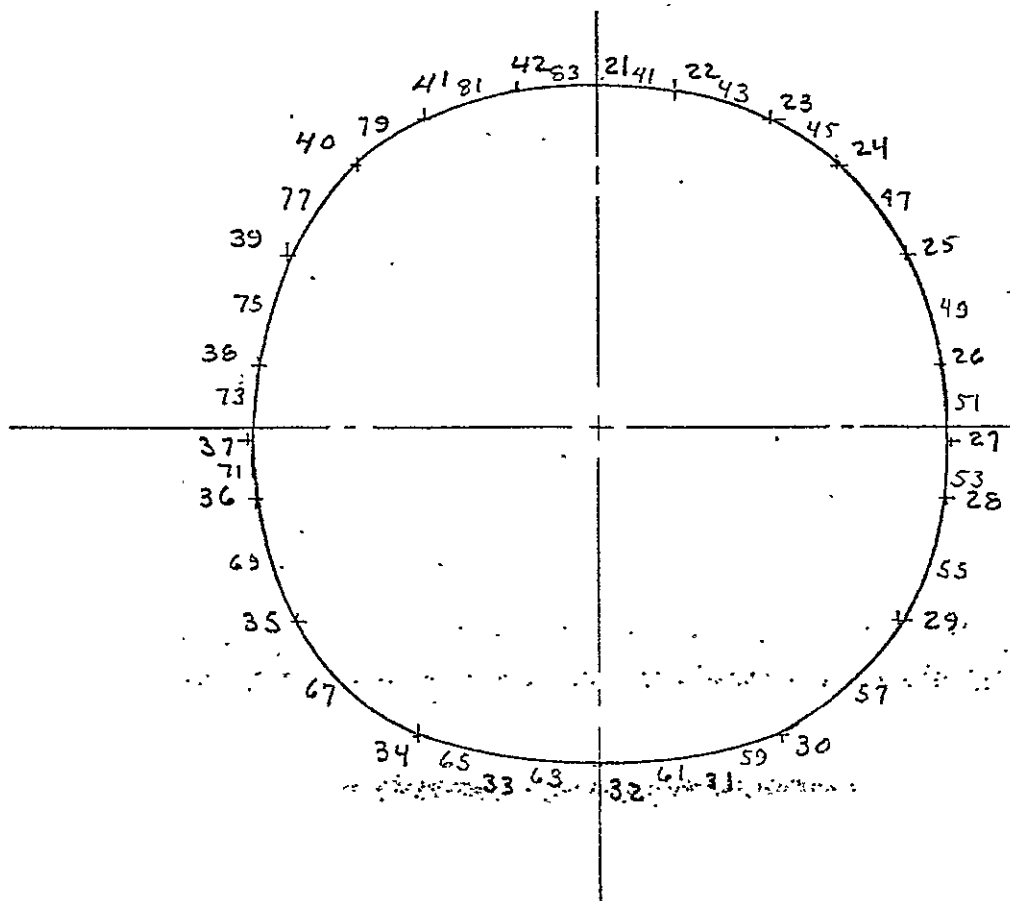
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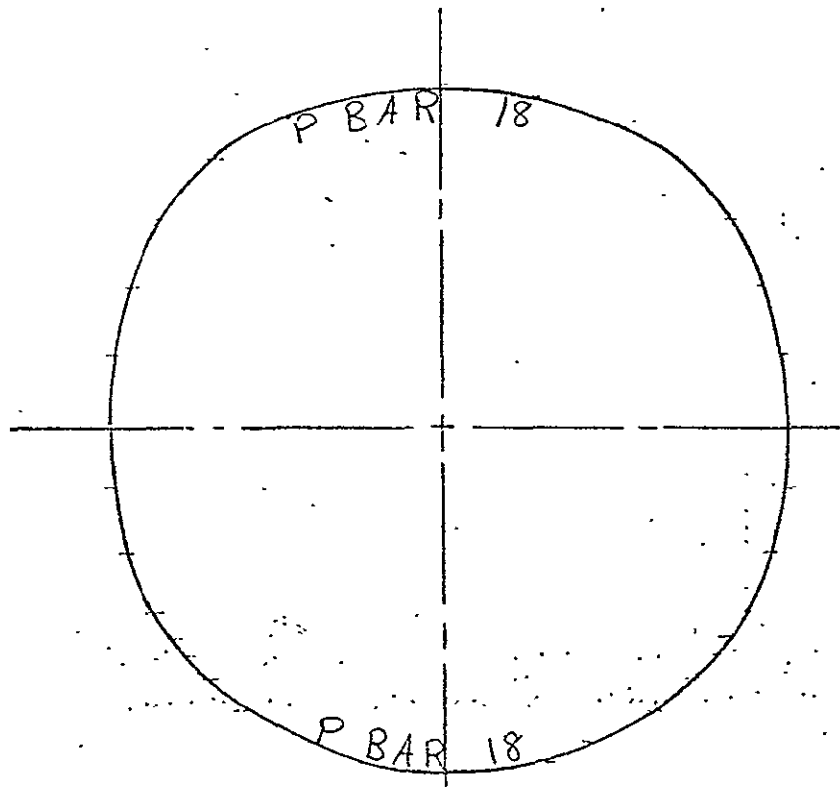


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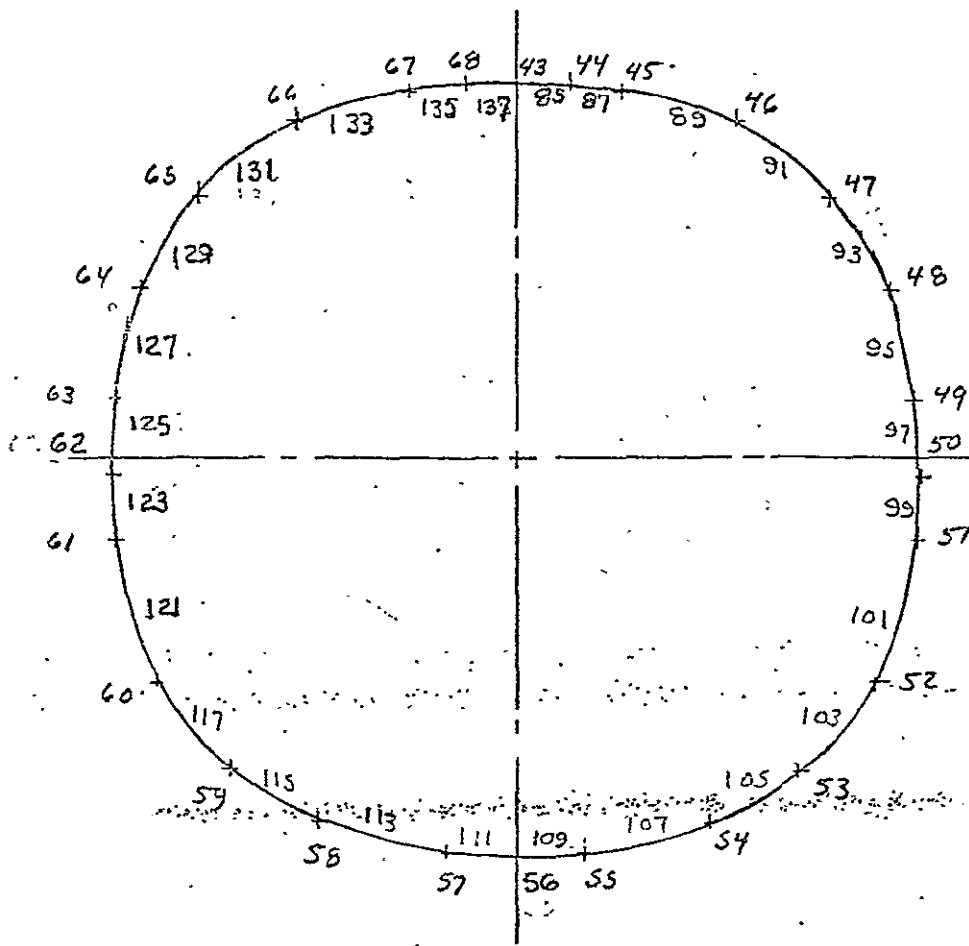




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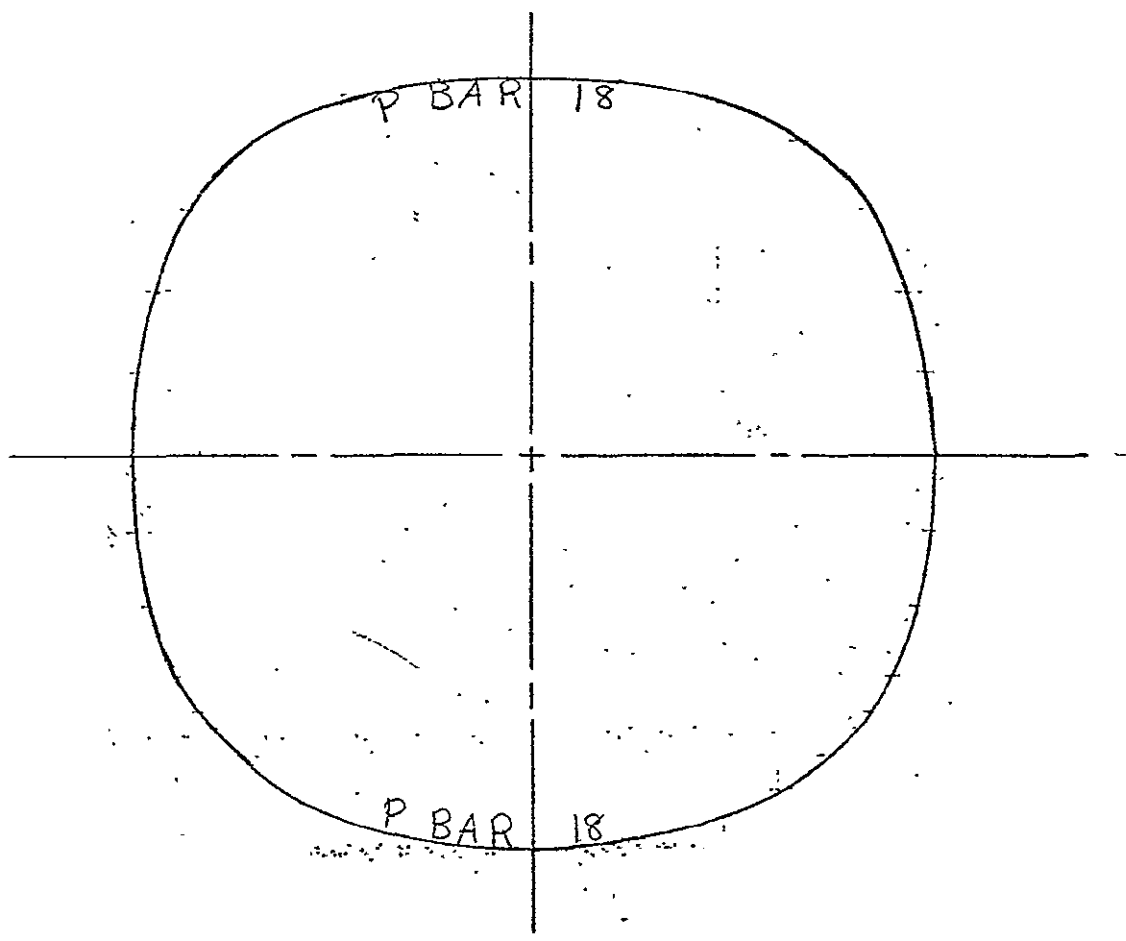


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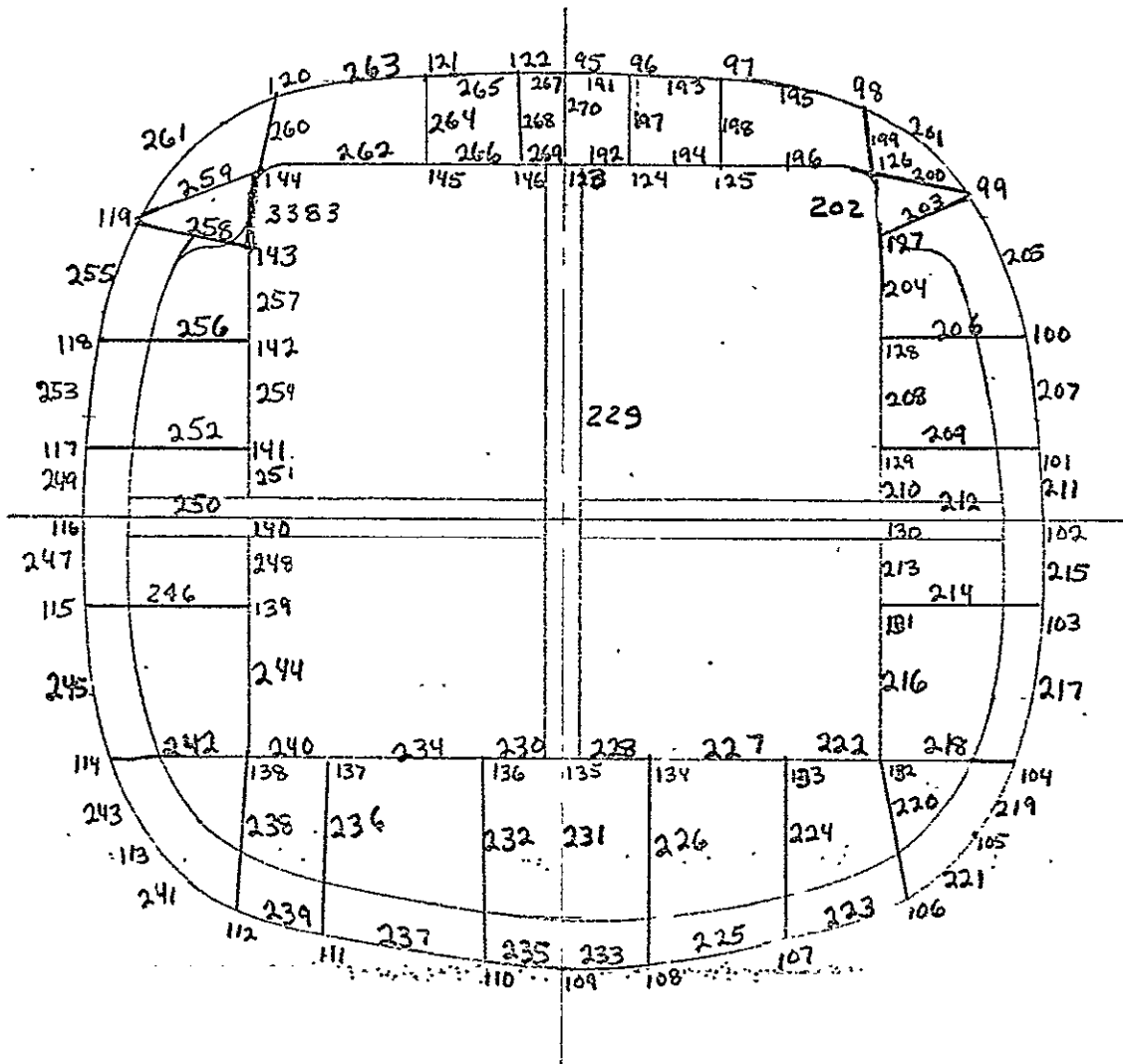


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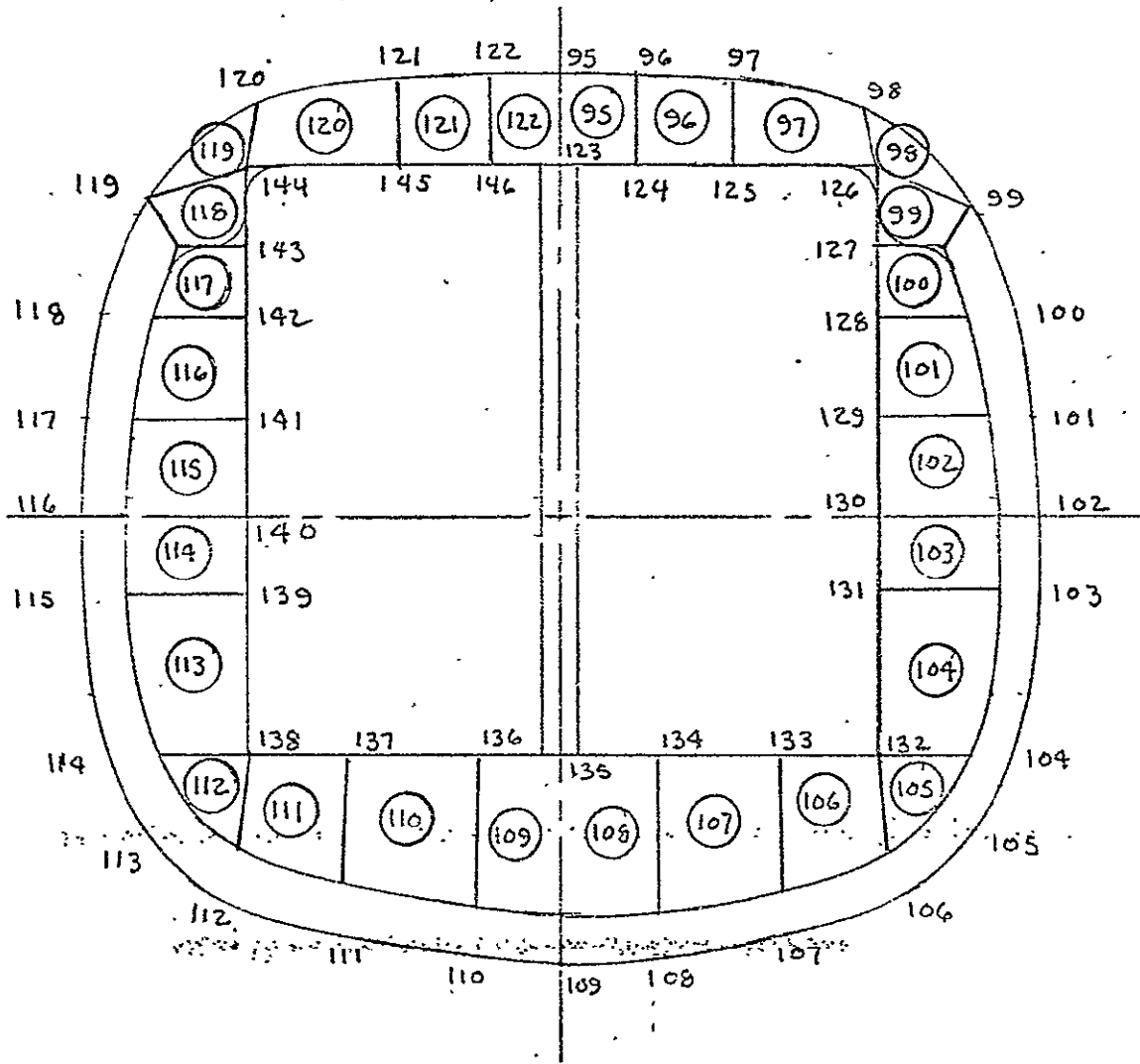
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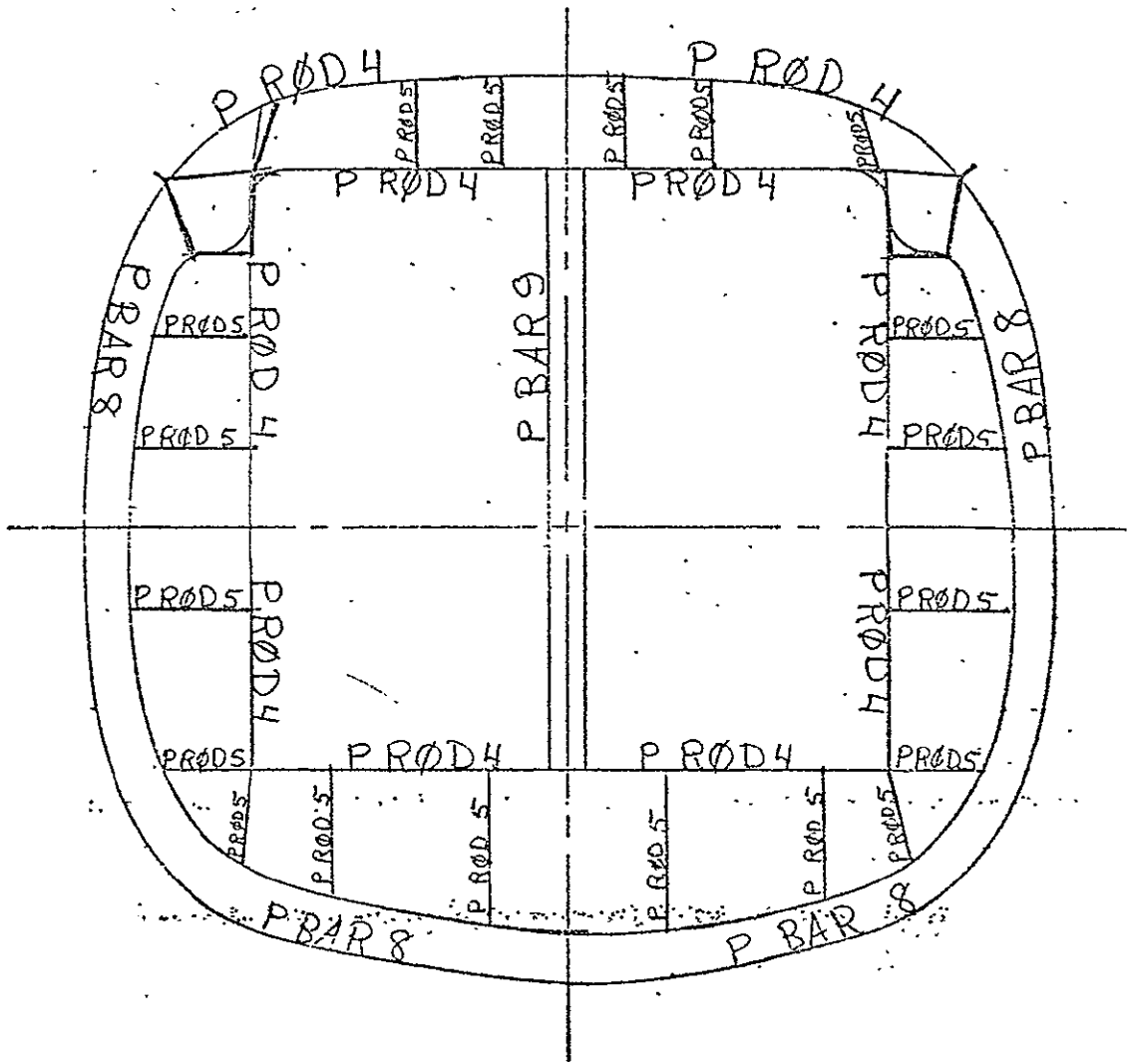
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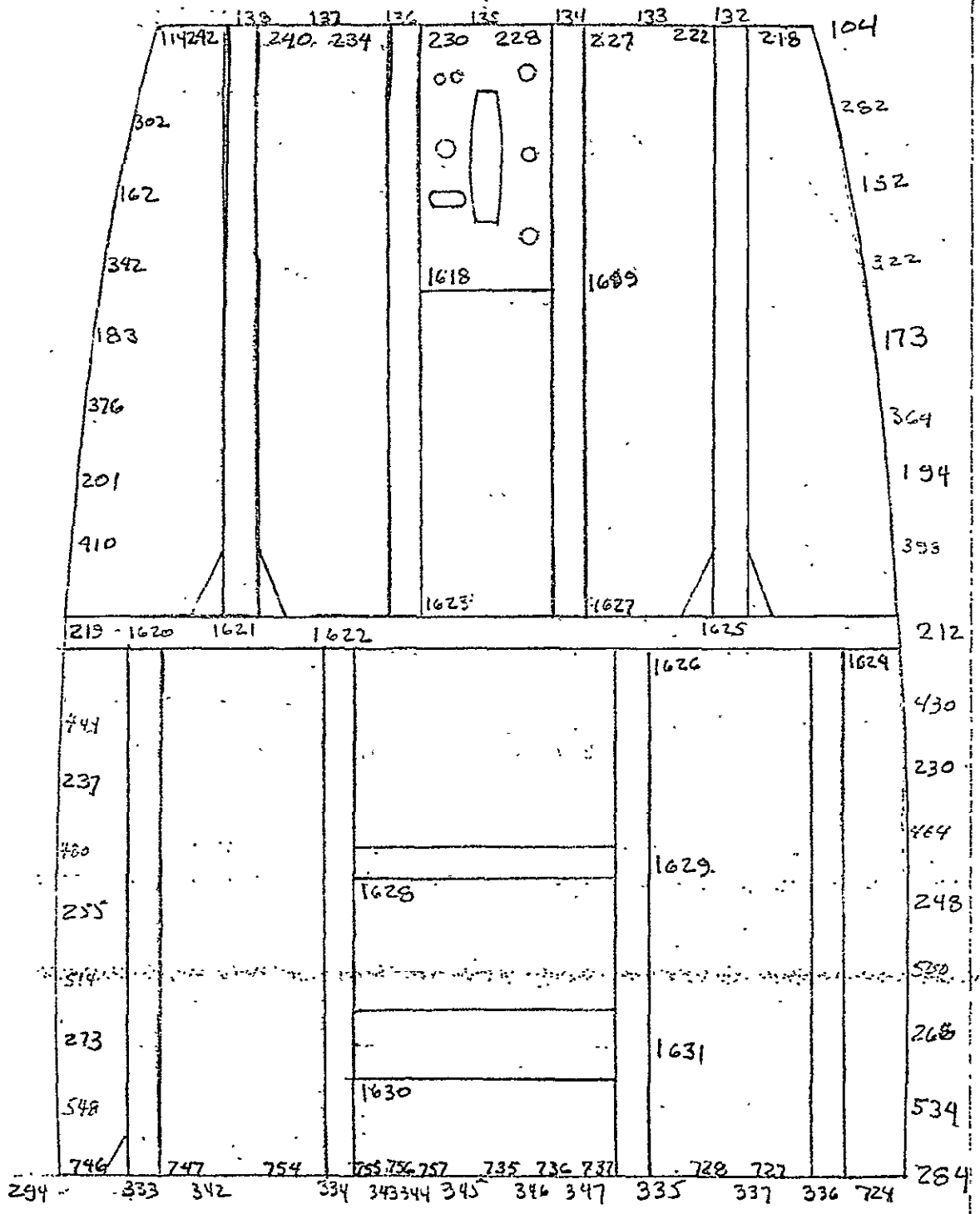
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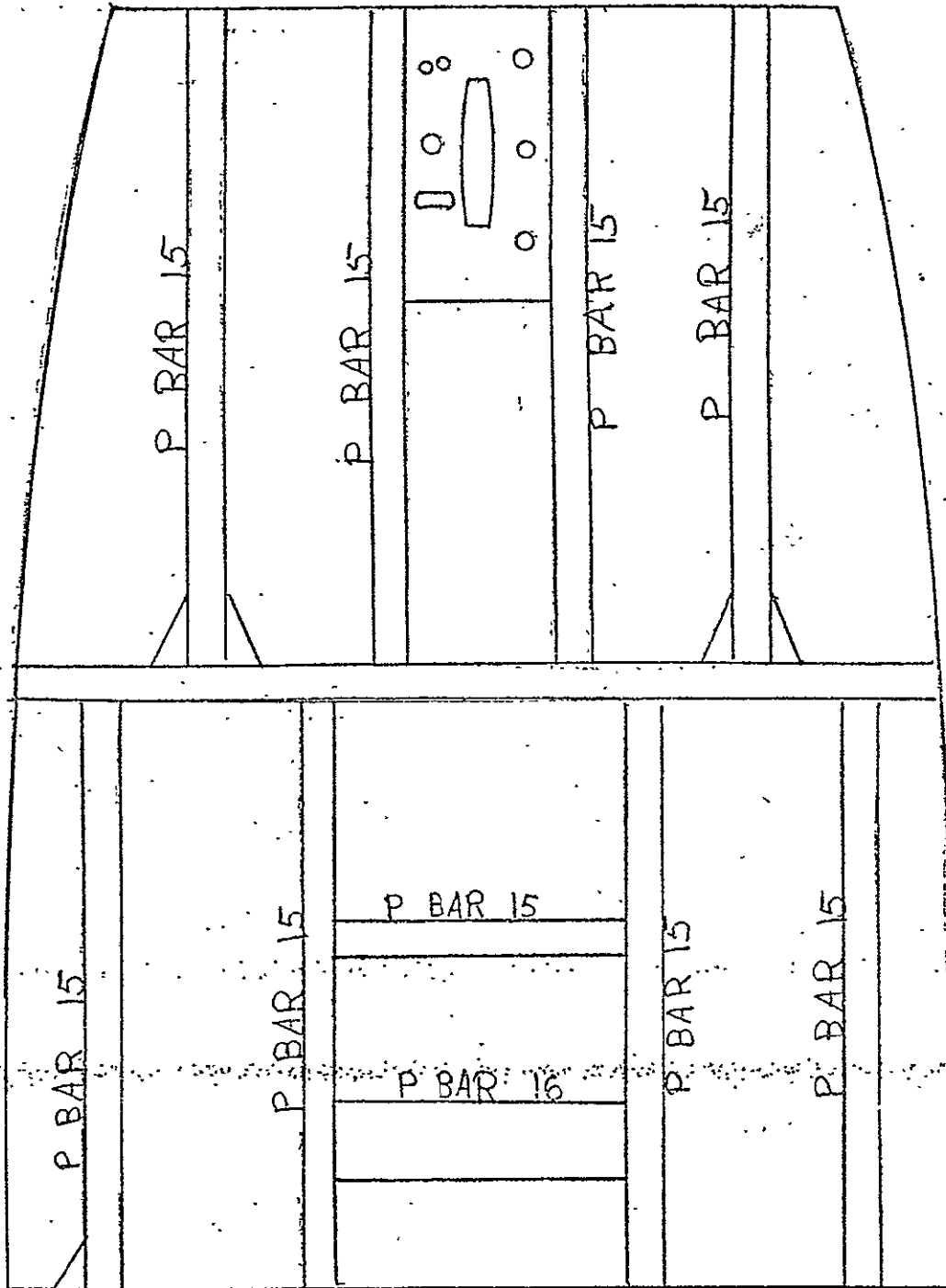


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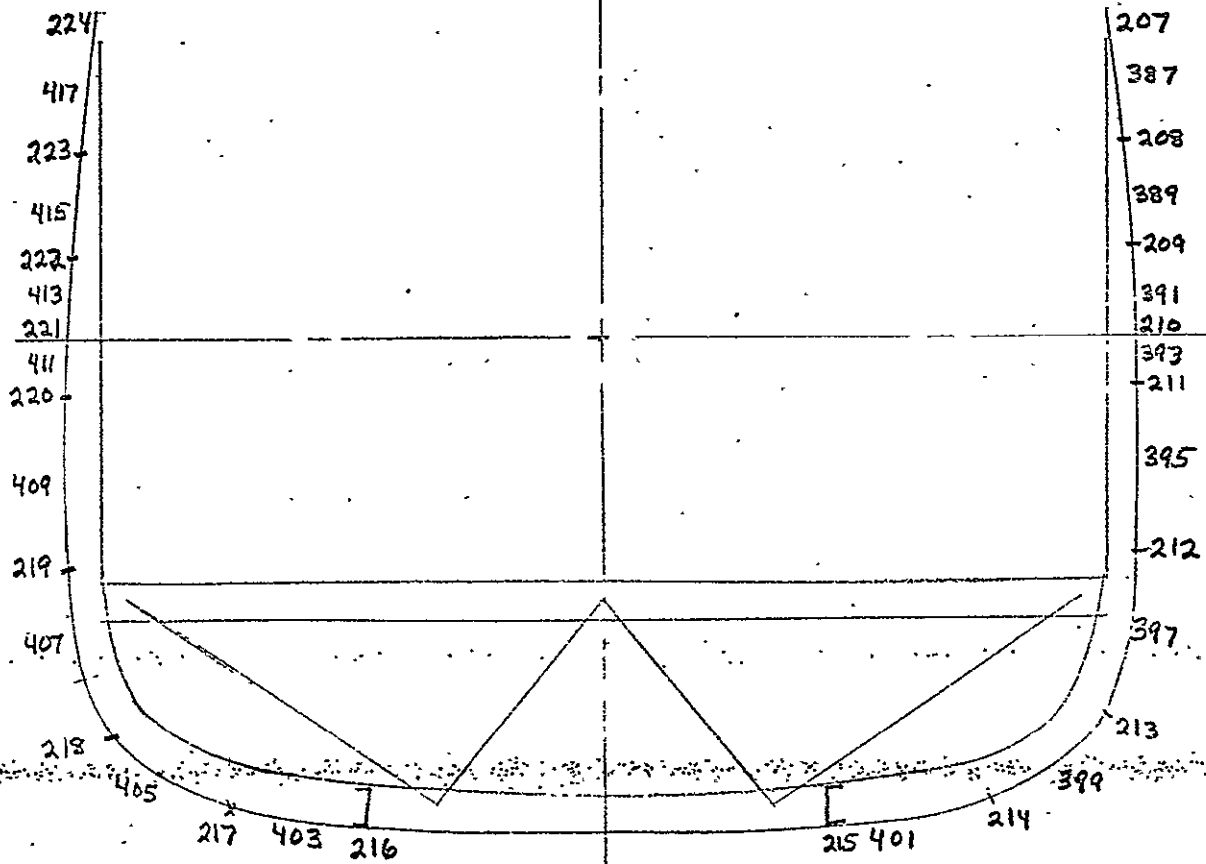


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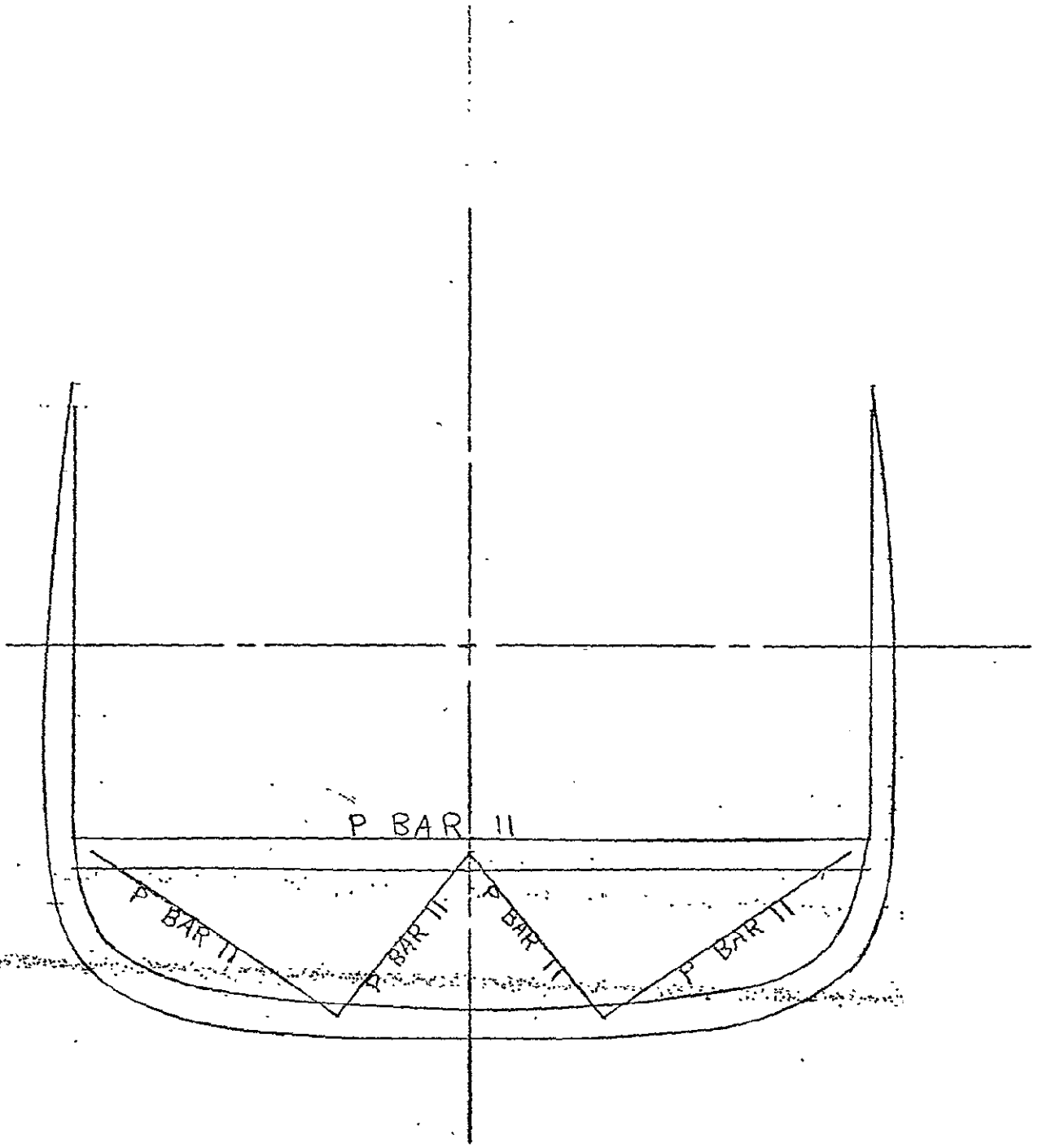


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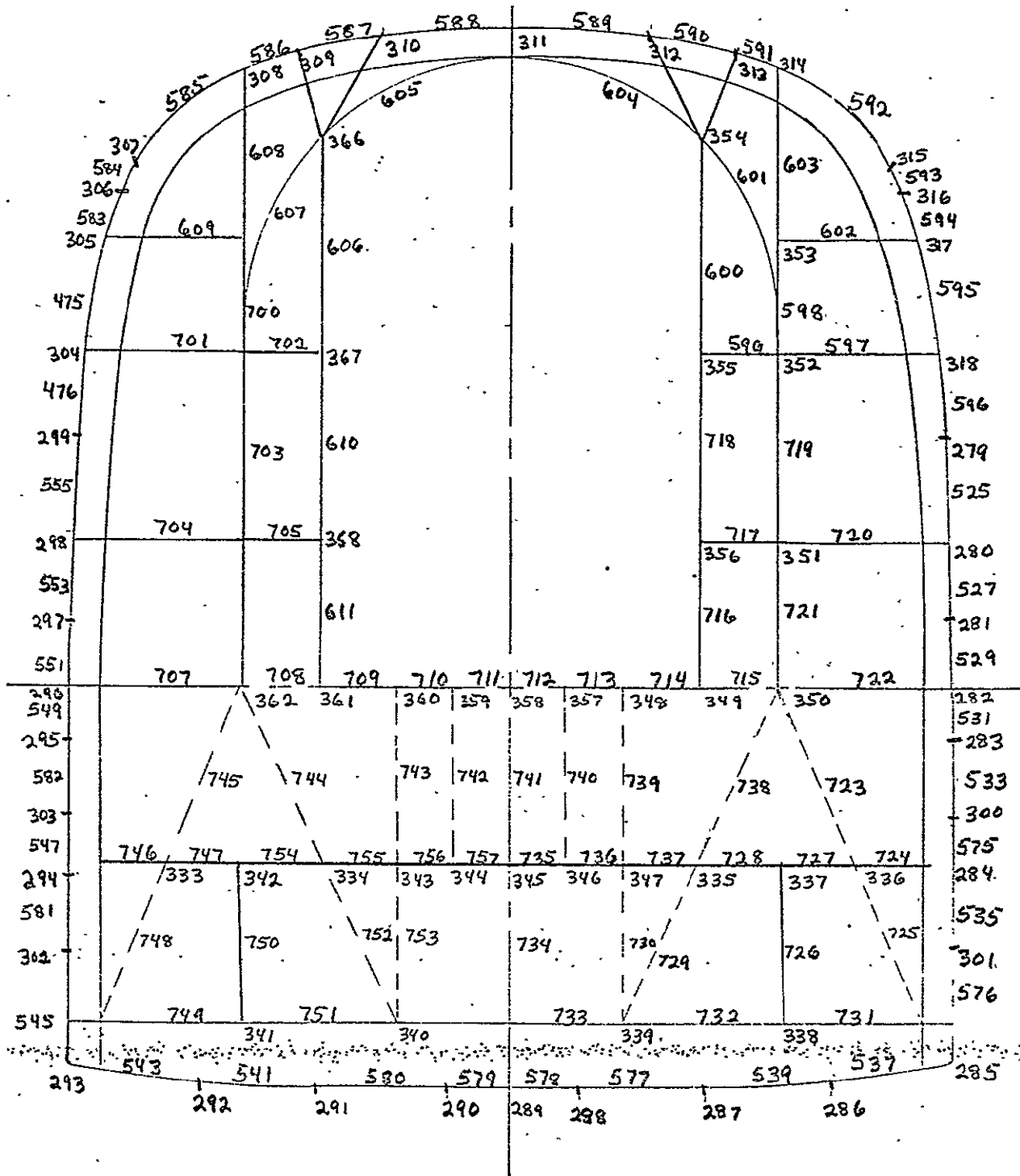
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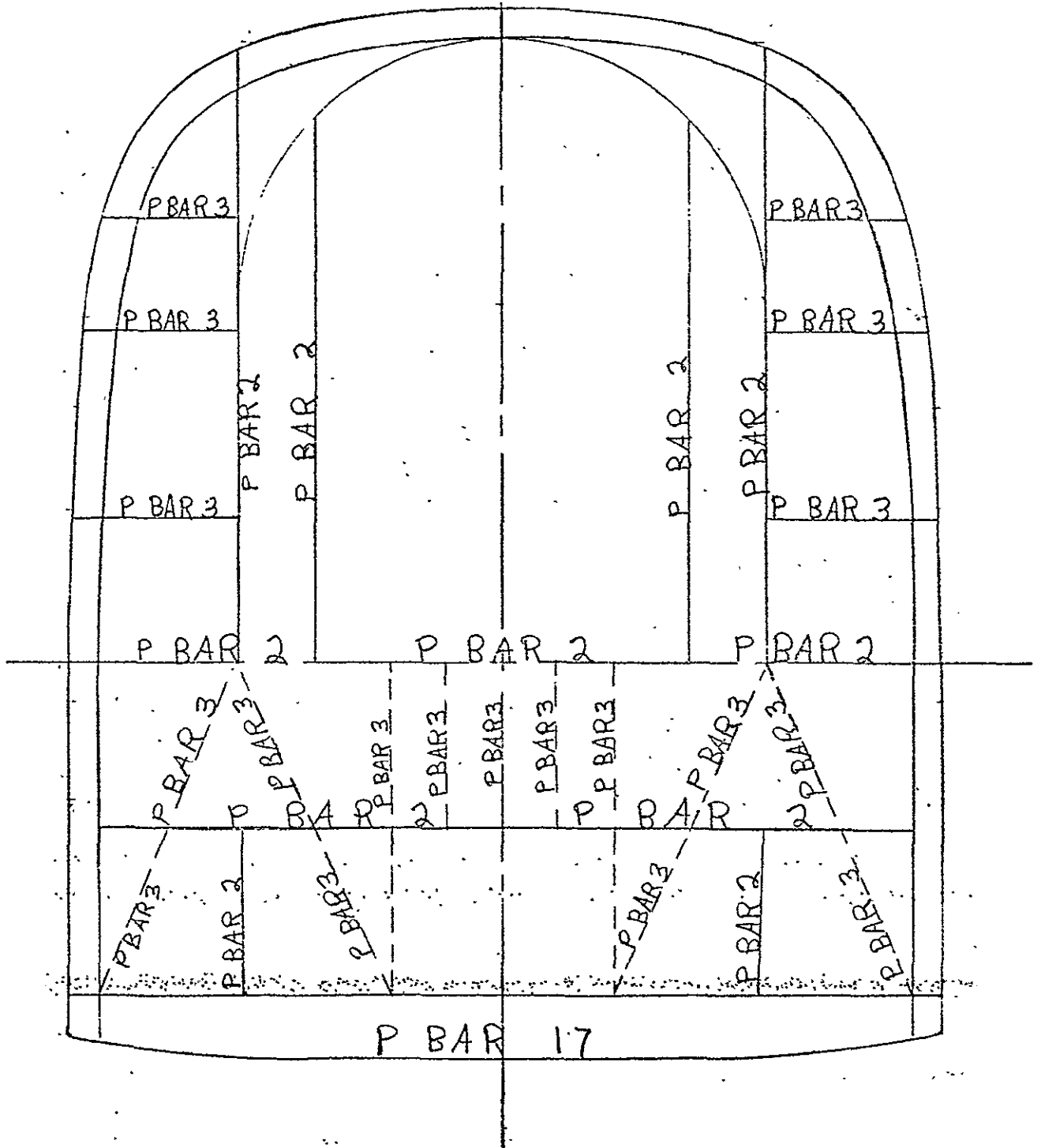
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	1623	1625	1559	1561	1563	1565	1567				
	817	818	820	783	784	785	786				
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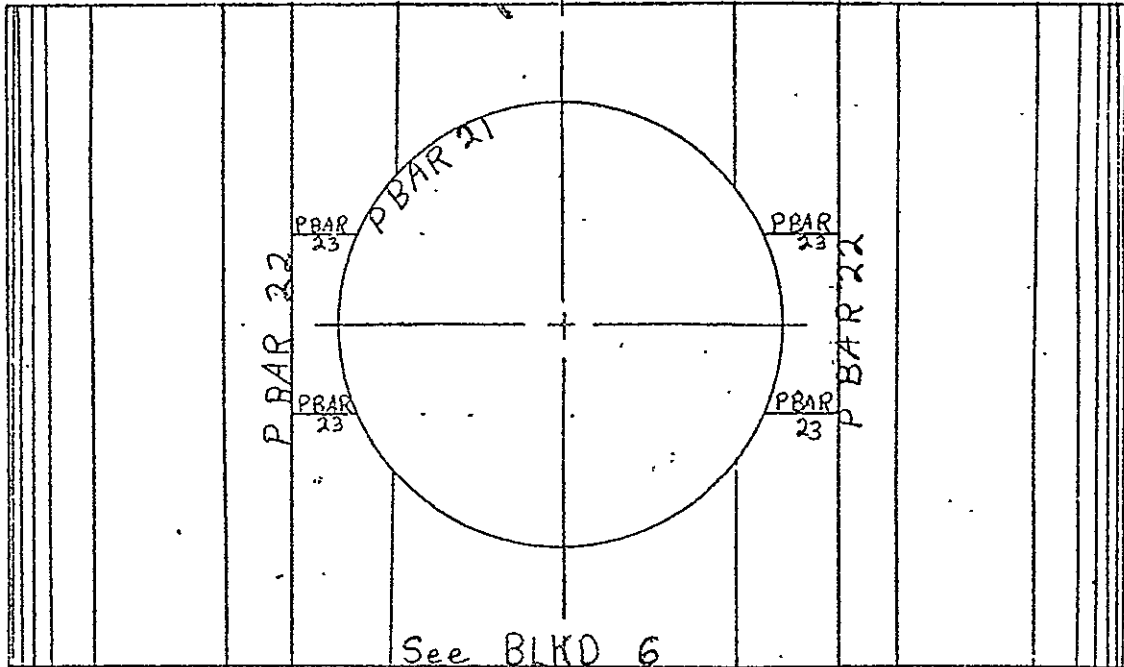
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307	308	309	310	311	312	313	314	315
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667	668	669	670	621	622	623	624	625
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706	707	708	709	670	671	672	673	674
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780	781	782	783	747	748	749	750	751
(703)	(704)	(705)	(706)	(707)	(708)	(709)	(710)	(711)
817	818	820	821	783	784	785	786	787
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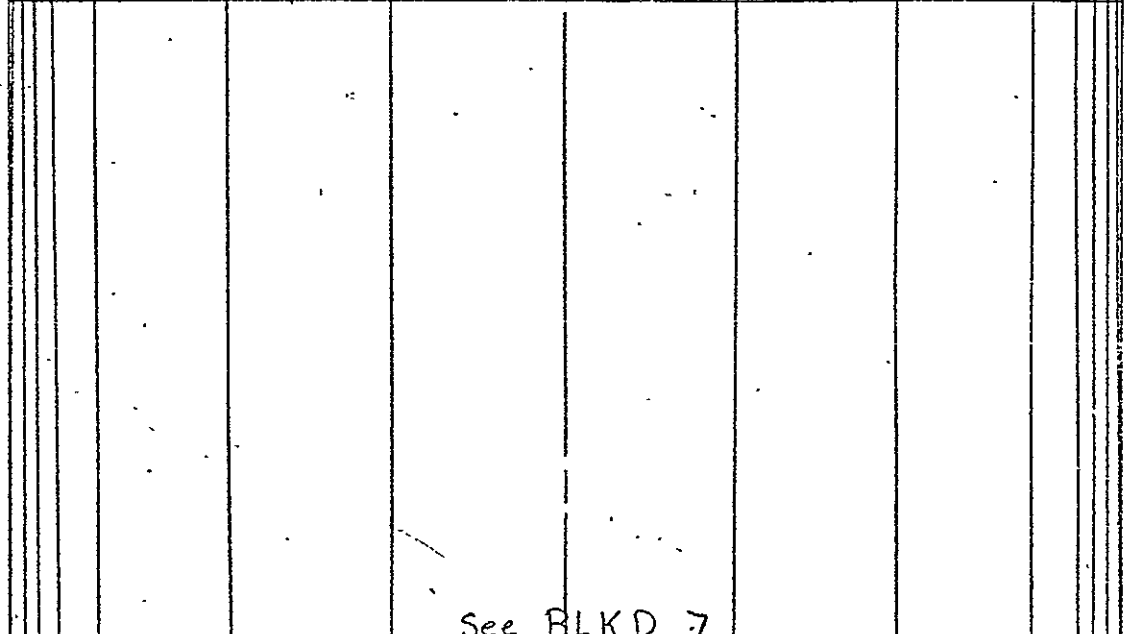
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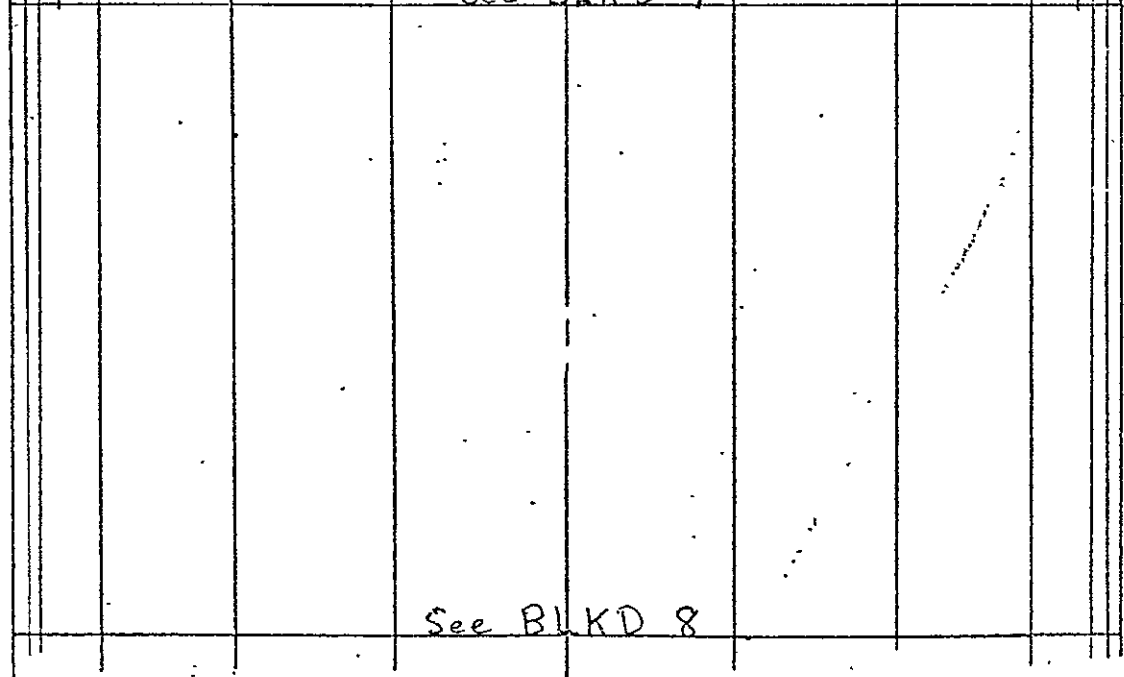
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843	845	847	849		851	853	855	857	859	861	863	865	867	869			
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1495	1497	1499				1501	1503	1505	1507	1509	1511						
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1565	1567	1569				1571	1573	1575	1577	1579	1581						
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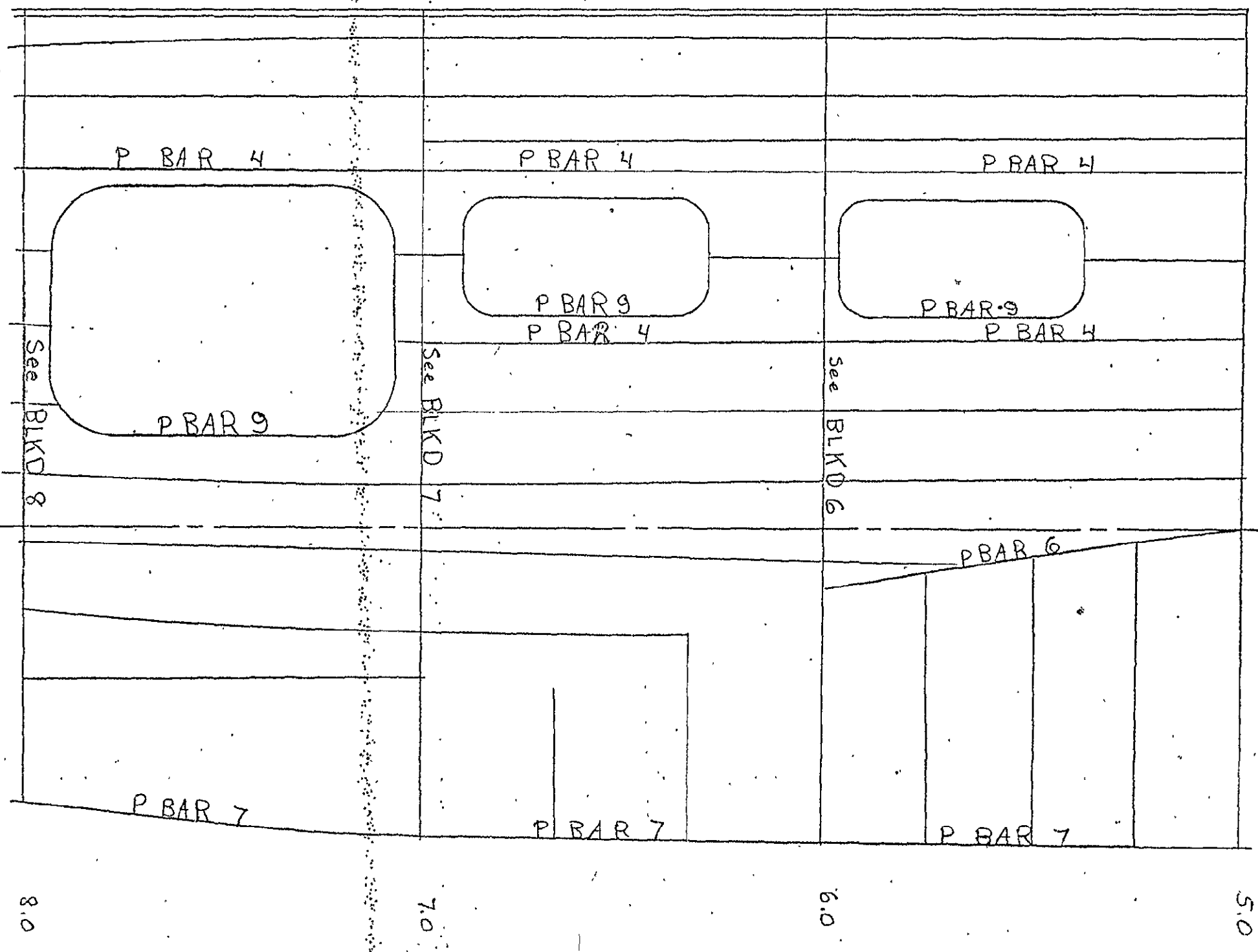
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712 (638)	713 (639)	714 (640)	715	716 (641)	717 (642)	718 (643)	719 (644)	720 (645)	721 (646)	722 (647)	723 (648)	724	725	
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425	426	427	428	429	430	1603	431	432	1612	433
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(504)	(505)	(506)	(507)	(508)	(509)	(510)	(511)	(512)	(513)	(514)	(515)	(516)	(517)	(518)					
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(546)	(547)	(548)	(549)	(550)	(551)	(552)	(553)	(554)	(555)	(556)	(557)	(558)	(559)	(560)	(561)	(562)			
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(586)	(587)	(588)	(589)	(590)	(591)	(592)	(593)	(594)	(595)	(596)	(597)	(598)	(599)	(600)	(601)	(602)	(603)	(604)	(605)
695	696	697	698	699	700	701	702	703	704	705	706	707	708						
(623)	(624)	(625)	(626)	(627)	(628)	(629)	(630)	(631)	(632)	(633)	(634)	(635)	(636)						
732	733	734	735	736	737	738	739	740	741	742	743	744	745						
(659)	(660)	(661)	(662)	(663)	(664)	(665)	(666)	(667)	(668)	(669)	(670)	(671)	(672)						
769	770	771	772	773	774	775	776	777	778	779	780	781							
(693)	(694)	(695)	(696)	(697)	(698)	(699)	(700)	(701)	(702)	(703)	(704)	(705)	(706)						
805	806	807	808	809	810	811	812	813	814	815	816	817	818						
(731)	(732)	(733)	(734)	(735)	(736)	(737)	(738)	(739)	(740)	(741)	(742)	(743)	(744)						
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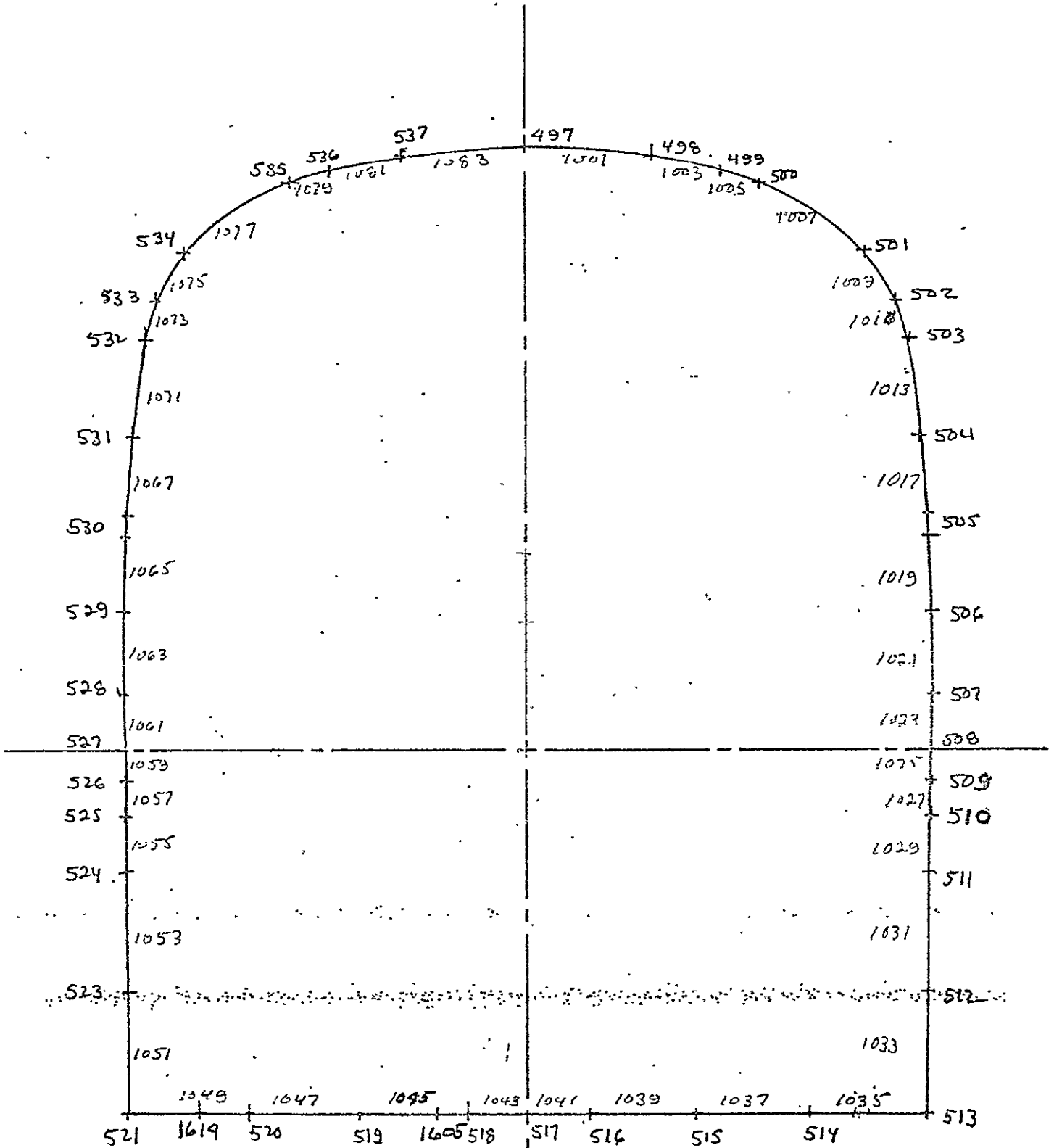
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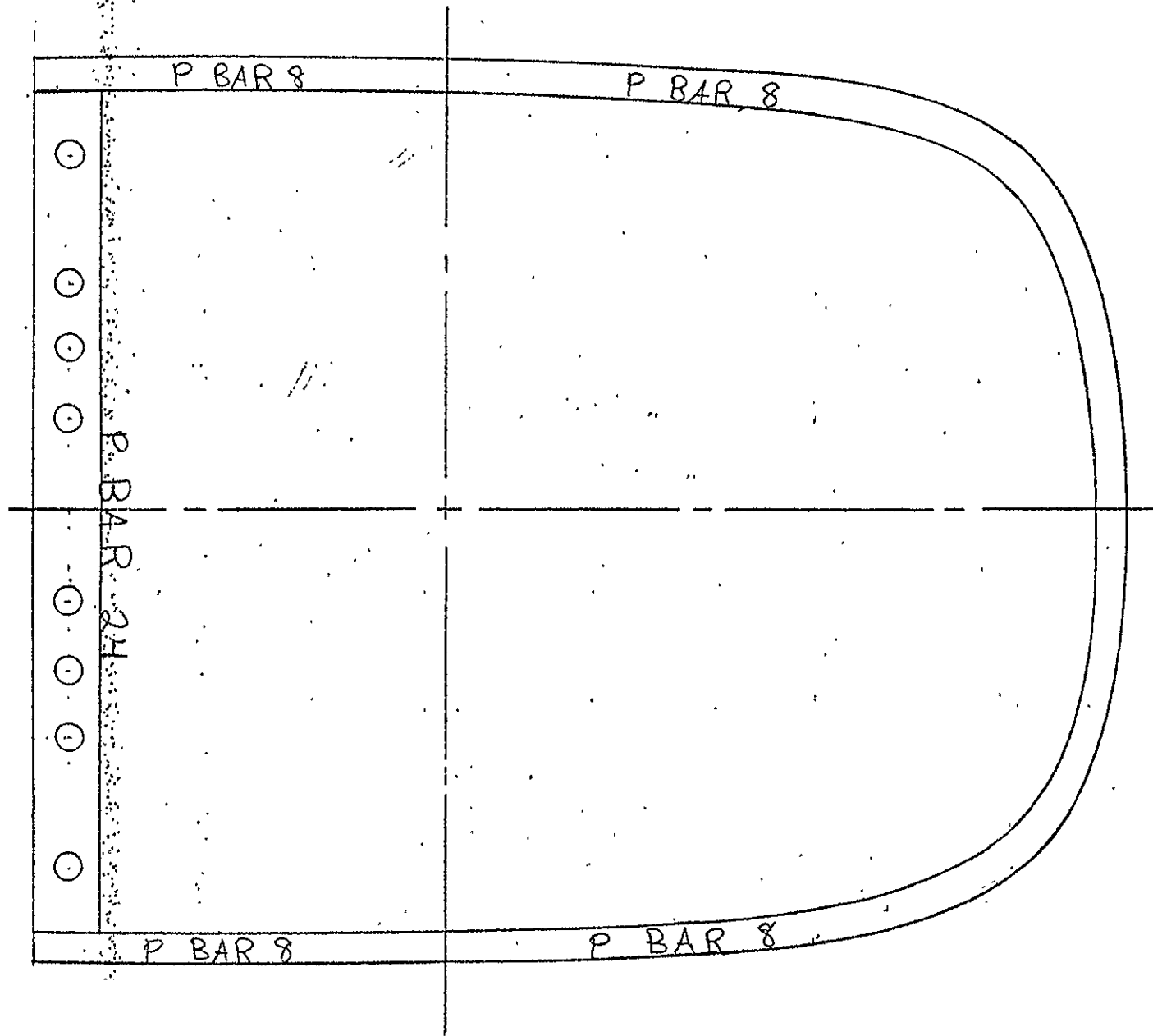
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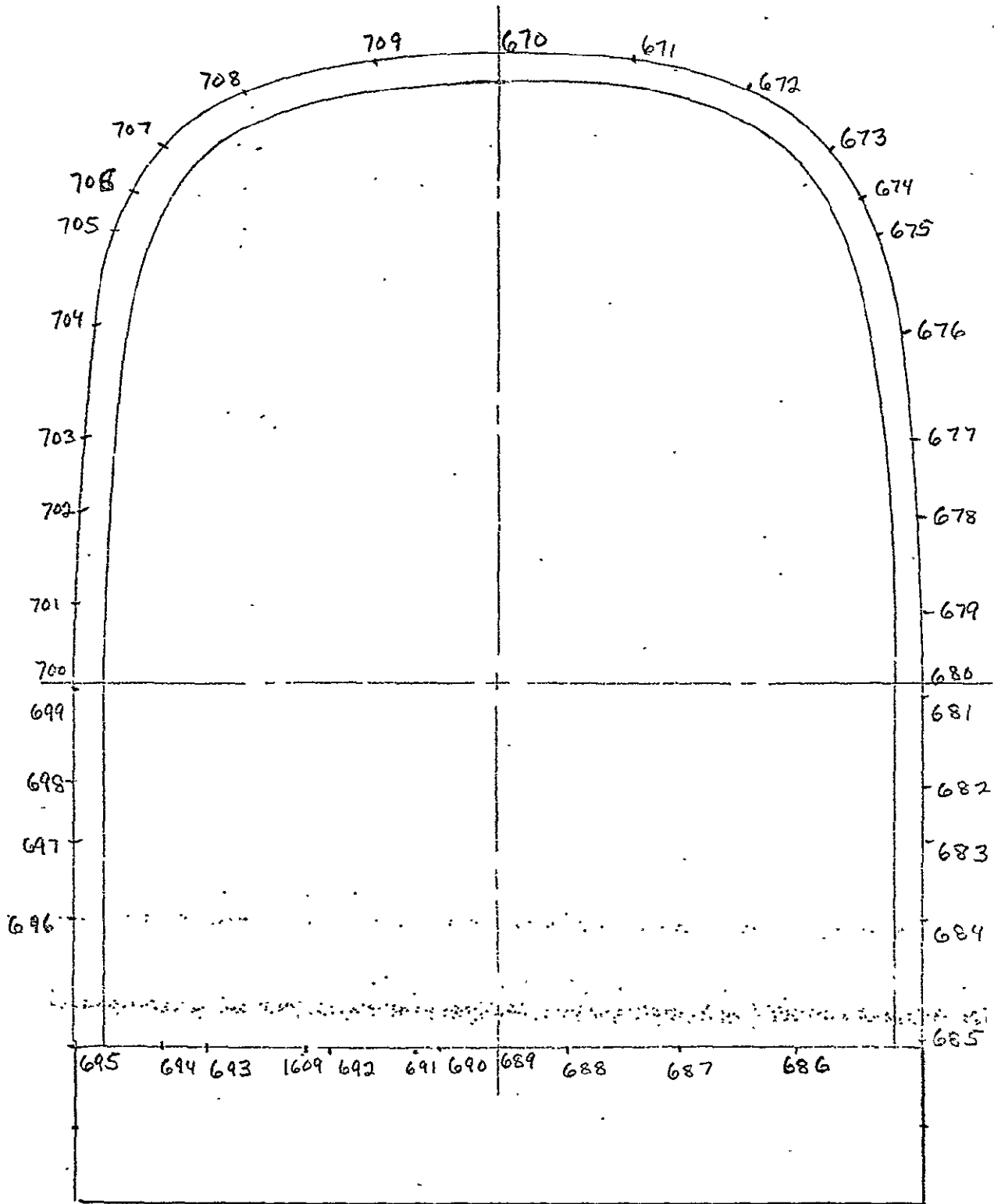
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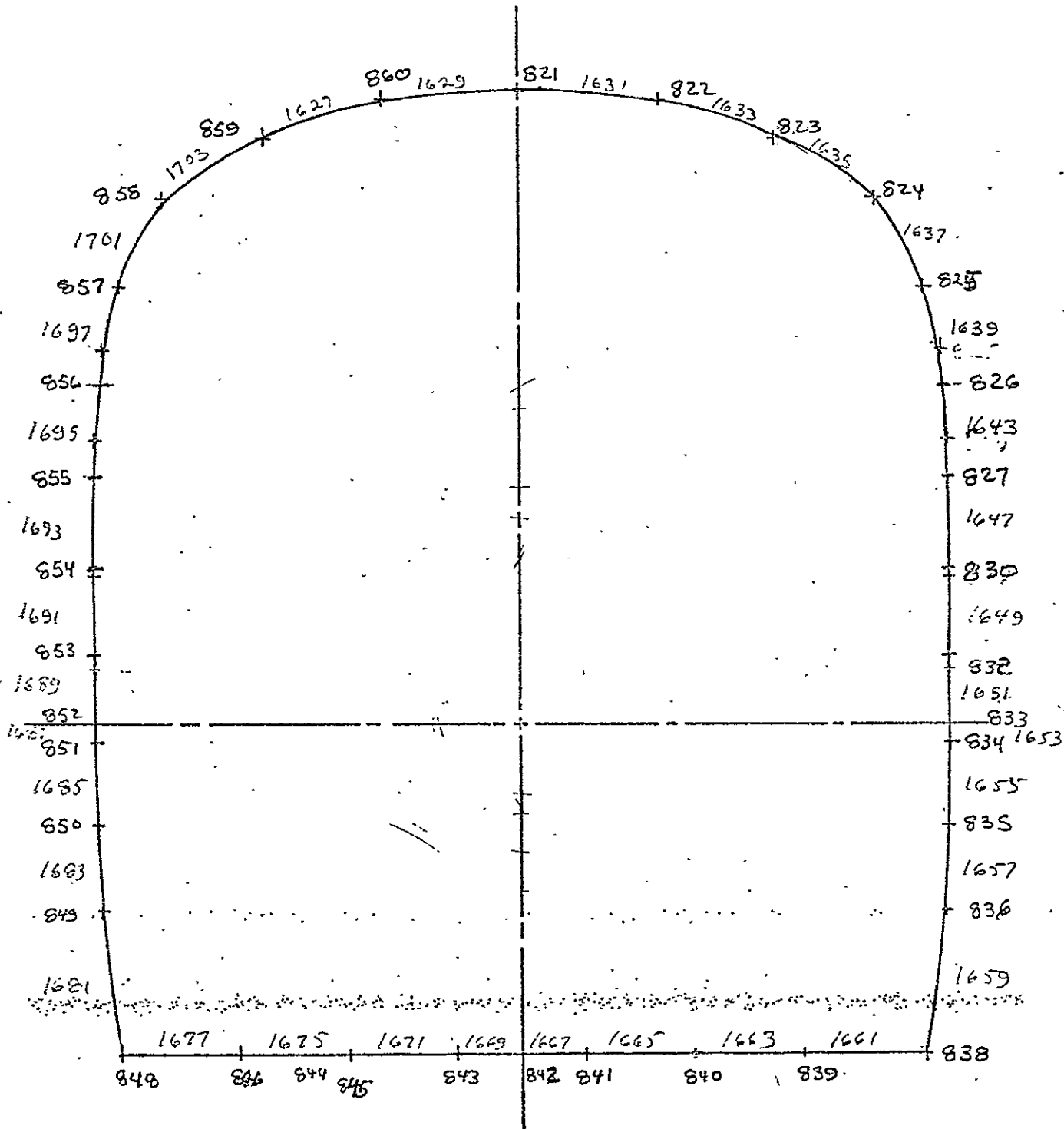
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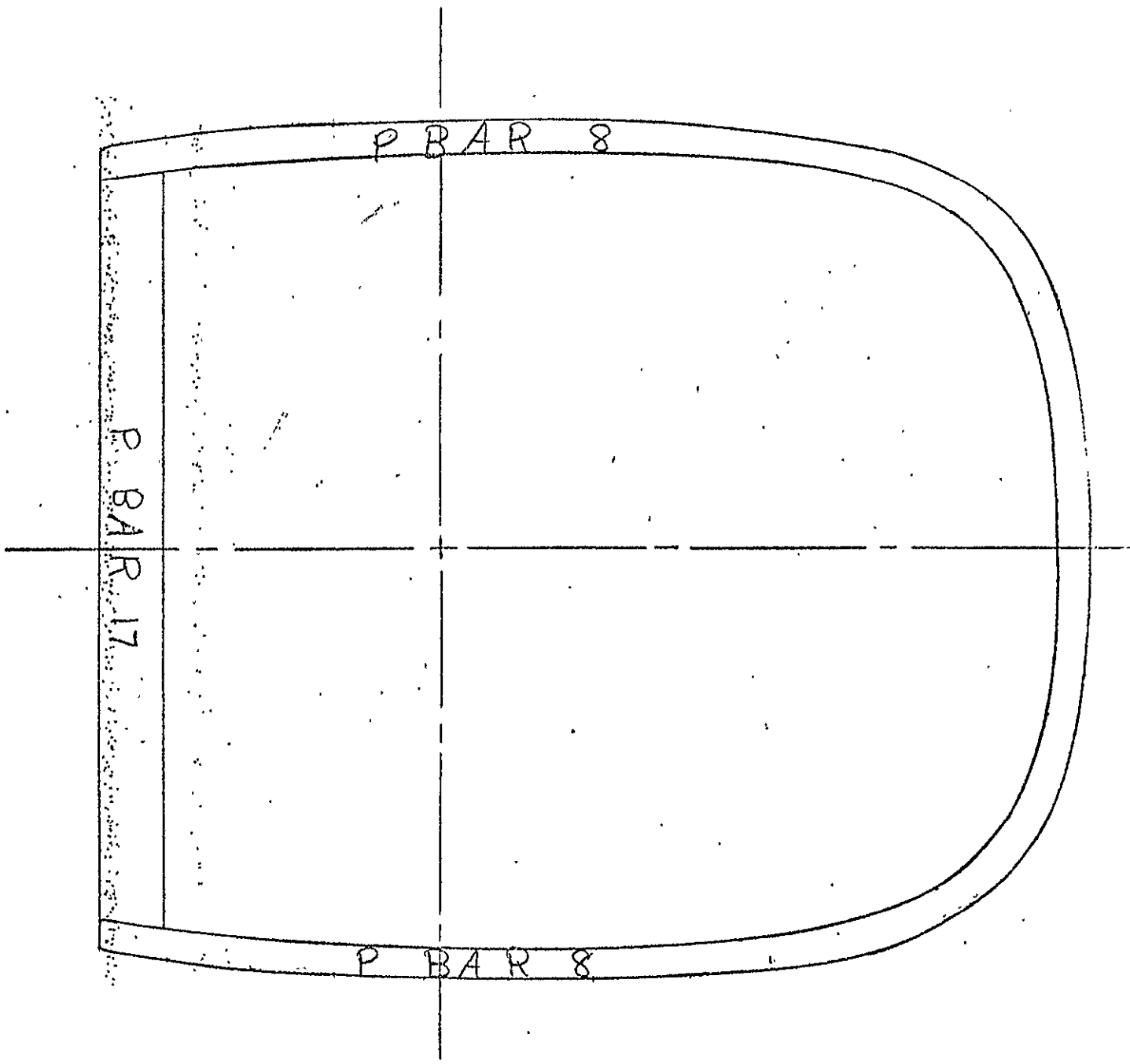
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			1765	1767	1707	1709	1711	1713	1715			
			889	890	891	861	862	863	864			
			1824	1826	1828	1770	1772	1774	1776			
			1825	1827	1769	1771	1773	1775	1777			
			99	920	921	892	893	894	895			
			1884	1886	1888	1830	1832	1834	1836			
			1885	1887	1829	1831	1833	1835	1837			
			956	957	958	922	923	924	925			
			1962	1964	1966	1890	1892	1894	1896			
			1963	1965	1967	1891	1892	1895	1897	1899		
			992	993	994	995	959	960	961	962	963	
			2124	2126	1968	1970	1972	1974	1976	1978	1980	
			2123	2125	1969	1971	1973	1975	1977	1979	1981	
			1071	1072	1073	926	1039	1040	1041	1042	1043	
			2202	2204	2206	2128	2130	2132	2134	2136	2138	
			2205	2207	2127	2129	2131	2133	2135	2137	2139	
			1111	1112	1113	1114	1074	1075	1076	1077	1078	
			2270	2272	2274	2276	2208	2210	2212	2214	2216	
			2271	2273	2275	2277	2209	2211	2213	2215	2217	
			1144	1145	1146	1147	1115	1116	1117	1118	1119	
			2342	2344	2346	2348	2278	2280	2282	2284	2286	
			2343	2345	2347	2349	2279	2281	2283	2285	2287	
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	858 (773)	859 (774)	860 (775)	821 (744)	822 (745)	823 (746)	824 (747)		8.0	
	889 (801)	890 (802)	891 (803)	861 (776)	862 (777)	863 (778)	864 (779)		8.1	
	919 (830)	920 (831)	921 (832)	892 (804)	893 (805)	894 (806)	895 (807)		8.2	
	956 (867)	957 (868)	958 (869)	922 (833)	923 (834)	924 (835)	925 (836)		8.3	
	992 (950)	993 (951)	994 (870)	995 (871)	959 (872)	960 (873)	961 (874)	962 (875)	963 (876)	9.0
	1071 (988)	1072 (989)	1073 (952)	926 (953)	1039 (954)	1040 (955)	1041 (956)	1042 (957)	1043 (958)	9.1
	1111 (1024)	1112 (1025)	1113 (990)	1114 (991)	1074 (992)	1075 (993)	1076 (994)	1077 (995)	1078 (996)	9.2
	1144 (1072)	1145 (1073)	1146 (1076)	1147 (1027)	1115 (1028)	1116 (1029)	1117 (1030)	1118 (1031)	1119 (1032)	10.0
	1189 (1168)	1190 (1129)	1191 (1079)	1192 (1075)	1157 (1076)	1158 (1077)	1159 (1078)	1160 (1079)	1161 (1080)	10.1
	1225 (1193)	1226 (1144)	1227 (1110)	1228 (1111)	1193 (1112)	1194 (1113)	1195 (1114)	1196 (1115)	1197 (1116)	10.2
	1259	1260	1261	1262	1229	1230	1231	1232	1233	11.0

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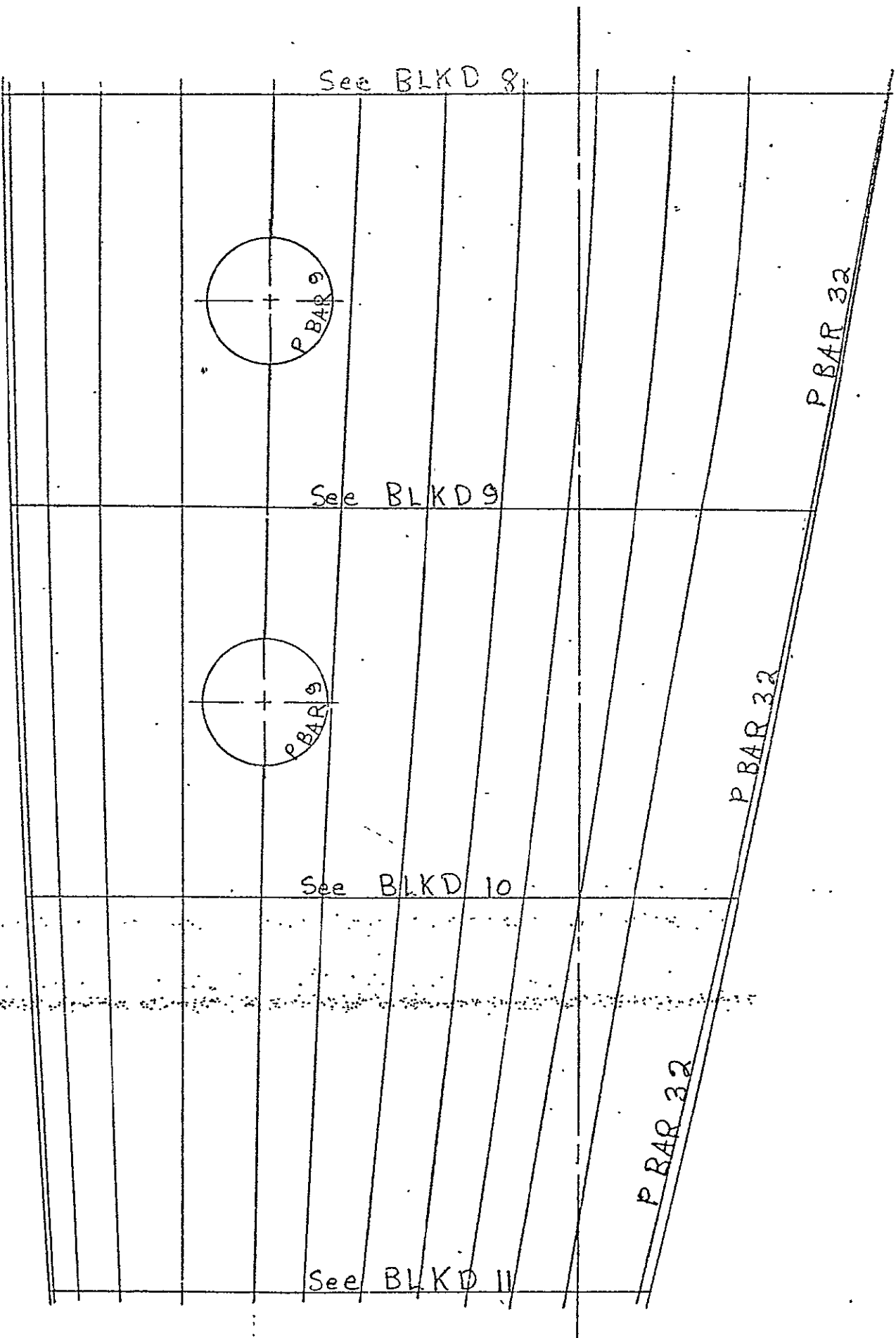
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1713	1715	1717	1719	1721	1723	1725	1727	1729	1731	1733	8.1
863	864	865 2413	866 3418	868	867	878	868	869	870	871	872
1774	1776	1778 1781	1780 1781	1782 1784	1785	1787	1788	1790	1794	1796	1798
1775	1777	1779	1781	1783	1785	1787	1789	1791	1793	1795	1797
894	895	896	897	898	899	900	901	902	904	905	906
1834	1836	1838 1840	1841	1842	1844	1846	1848	1850	1854	1856	1858
1835	1837	1839	1841	1843	1845	1847	1849	1851	1853	1855	8.3
924	925	927	928	931	932	933	934	935	936	937	
1894	1896	1898	1900	1902	1904	1906	1908	1910	1912	1914	1916
1897	1899	1901	1903	1905	1907	1909	1911	1913	1915	1917	9.0
962	963	964	965	966	967	968	969	970	971	972	973
1978	1980	1982	1984	1986	1988	1990	1992	1994	1996	1998	?
1979	1981	1983	1985	1987	1989	1991	1993	1995	1997	1999	9.1
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2136	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148
2137	2139	2141	2143	2145	2147	2149	2151	2153	2155	2157	2159
1677	1678	1679	1680	1683	1684	1685	1686	1687	1688	1689	1690
2214	2216	2218	2220	2222	2224	2226	2228	2230	2232	2234	2236
2215	2217	2219	2221	2223	2225	2227	2229	2231	2233		10.0
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2284	2286	2288	2290	2292	2294	2296	2298	2300	2302	2304	
2285	2287	2289	2291	2293	2295	2297	2299	2301	2303	2305	10.1
1166	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171
2356	2358	2360	2362	2364	2366	2368	2370	2372	2374	2376	
2357	2359	2361	2363	2365	2367	2369	2371	2373	2375		10.2
1146	1147	1148	1149	1200	1201	1202	1203	1204	1205	1206	
2428	2430	2432	2434	2436	2438	2440	2442	2444	2446	2448	
2427	2429	2431	2433	2435	2437	2439	2441	2443	2445		11.0
1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	

A	B	C	D	F	G	H	I	J	K	L	M	N
823	824	825	826	827	830	831	833	834	835	836	838	
(746)	(747)	(748)	(749)	(750)	(751)	(752)	(753)	(754)	(755)	(756)		
863	864	865	866	868	867	878	869	869	870	871	872	
(778)	(779)	(959)	(1567)	(1729)	(786)	(781)	(782)	(789)	(785)	(786)		
894	895	896	897	898	899	900	901	903	904	905	906	
(806)	(807)	(808)	(809)	(810)	(811)	(812)	(813)	(814)	(815)	(816)		
924	925	927	928	931	932	933	934	935	936	937		
(835)	(836)	(839)	(840)	(841)	(842)	(843)	(844)	(845)	(846)			
962	963	964	965	966	967	968	970	971	972	973		
(875)	(876)	(923)	(924)	(925)	(926)	(927)	(929)	(930)	(931)			
1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	
(957)	(958)	(959)	(960)	(961)	(962)	(963)	(964)	(965)	(967)	(968)		
1077	1078	1079	1082	1083	1084	1085	1086	1088	1089	1090		
(995)	(996)	(997)	(998)	(999)	(1000)	(1001)	(1002)	(1003)	(1004)			
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(1031)	(1032)	(1033)	(1046)	(1047)	(1048)	(1049)	(1050)	(1051)	(1052)	(1053)		
1160	1161	1162	1163	1164	1165	1166	1167	1168	1170	1171		
(1079)	(1080)	(1081)	(1082)	(1083)	(1084)	(1085)	(1086)	(1087)	(1088)	(1089)		
1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206		
(1115)	(1116)	(1117)	(1118)	(1119)	(1120)	(1121)	(1122)	(1123)	(1124)			
1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242		

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872	873	874	875	876	877	880	881	883
1748	1800	1802	1804	1806	1808	1812	1814	1818
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906	907	908	909	910	911	913	914	916
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2163	2165	2167	2169	2171	2173	2175	2177	2179
1090	1091	1092	1093	1094	1095	1096	1097	1098
2236	2238	2240	2242	2244	2246	2248	2250	2252
2235	2237	2239	2241	2243	2245	2247	2249	2251
1128	1129	1130	1131	1132	1133	1134	1135	1136
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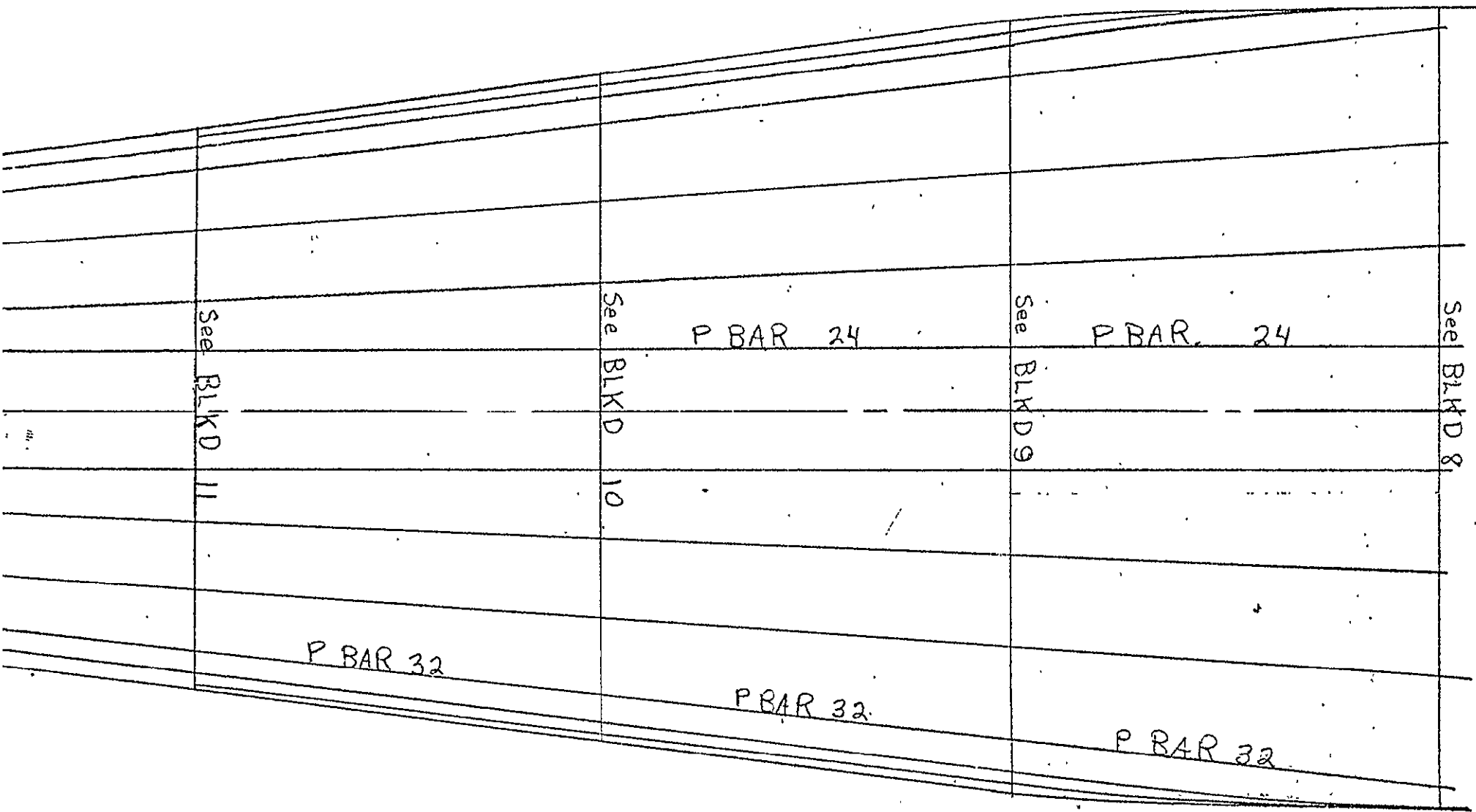
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(787)	(788)	(789)	(790)	(791)	(793)	(794)	(795)	(798)
906	907	908	909	910	911	913	914	916
(817)	(818)	(819)	(820)	(821)	(823)	(824)	(825)	(827)
937	938	939	940	941	942	944	945	947
(847)	(848)	(849)	(850)	(851)	(853)	(854)	(855)	(857)
973	976	974	975	976	977	979	980	982
(932)	(933)	(934)	(935)	(936)	(937)	(938)	(939)	(940)
1053	1054	1055	1056	1057	1058	1059	1060	1061
(969)	(970)	(971)	(972)	(973)	(974)	(975)	(976)	(977)
1090	1091	1092	1093	1094	1095	1096	1097	1098
(1005)	(1006)	(1007)	(1008)	(1009)	(1010)	(1011)	(1012)	(1013)
1128	1129	1130	1131	1132	1133	1134	1135	1136
(1054)	(1055)	(1056)	(1057)	(1058)	(1059)	(1060)	(1061)	(1062)
1171	1172	1173	1174	1175	1176	1177	1178	1179
(1090)	(1091)	(1092)	(1093)	(1094)	(1095)	(1096)	(1097)	(1098)
1206	1208	1209	1210	1211	1212	1213	1214	1215
(1125)	(1126)	(1127)	(1128)	(1129)	(1130)	(1131)	(1132)	(1134)
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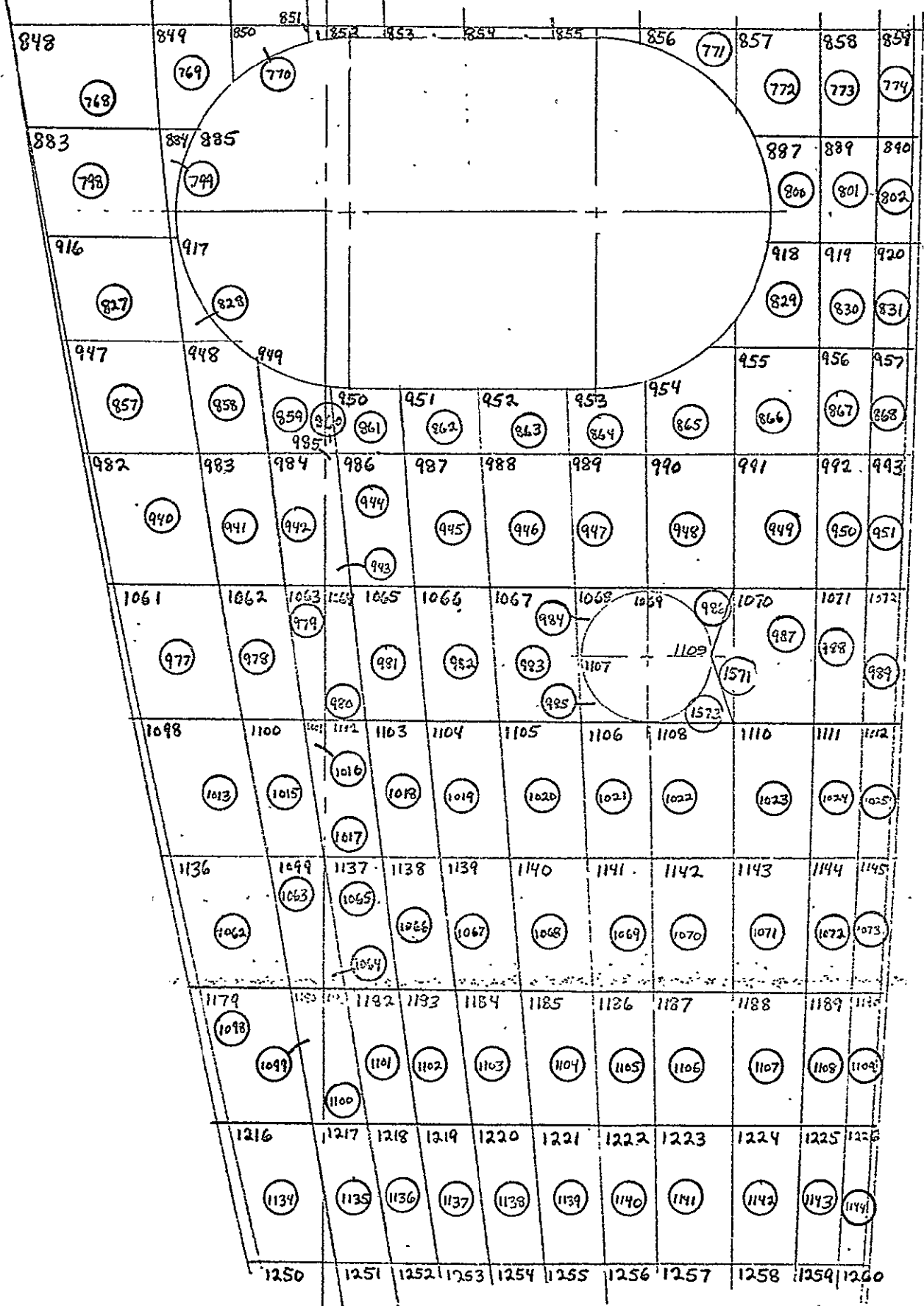
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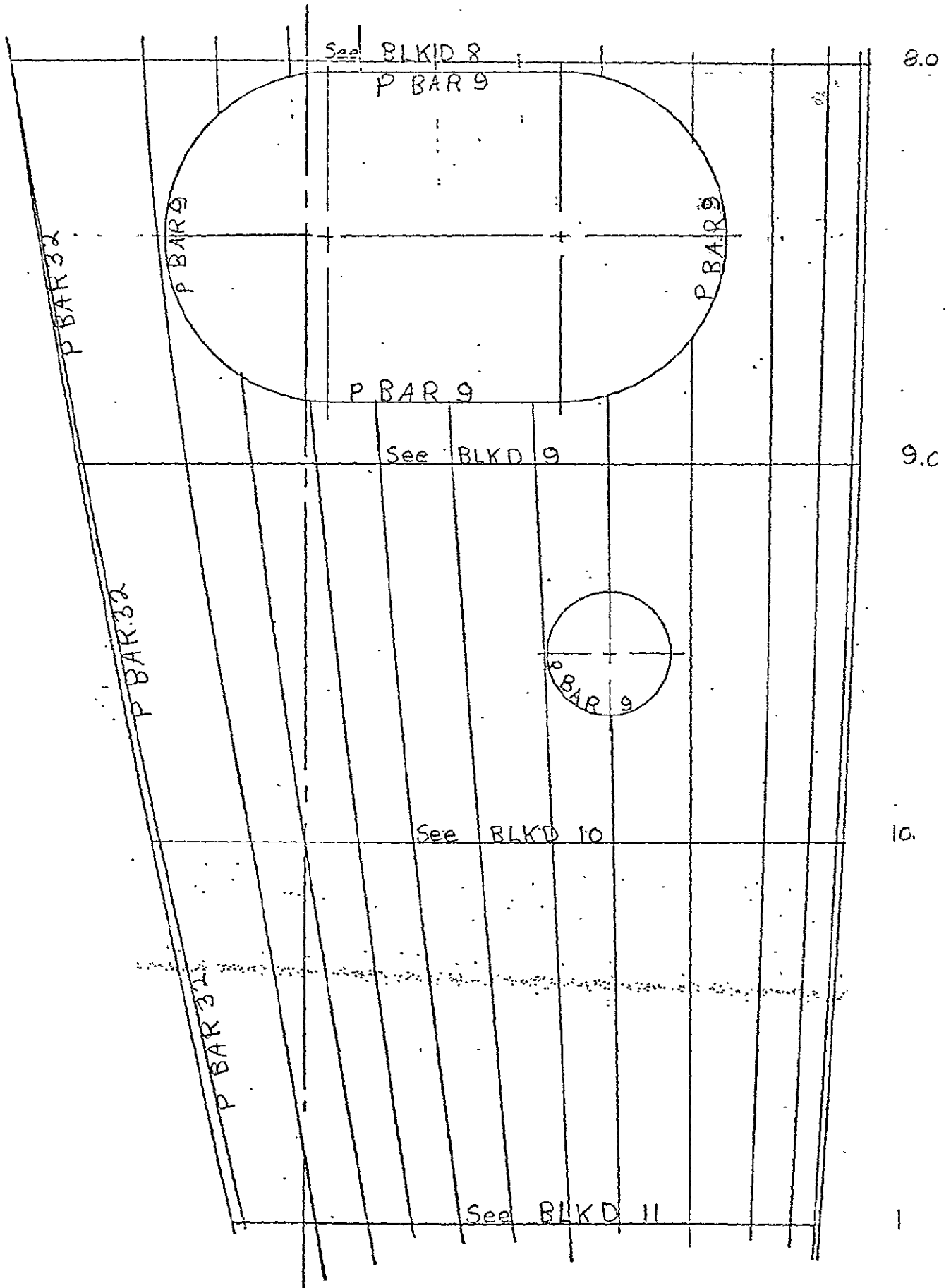
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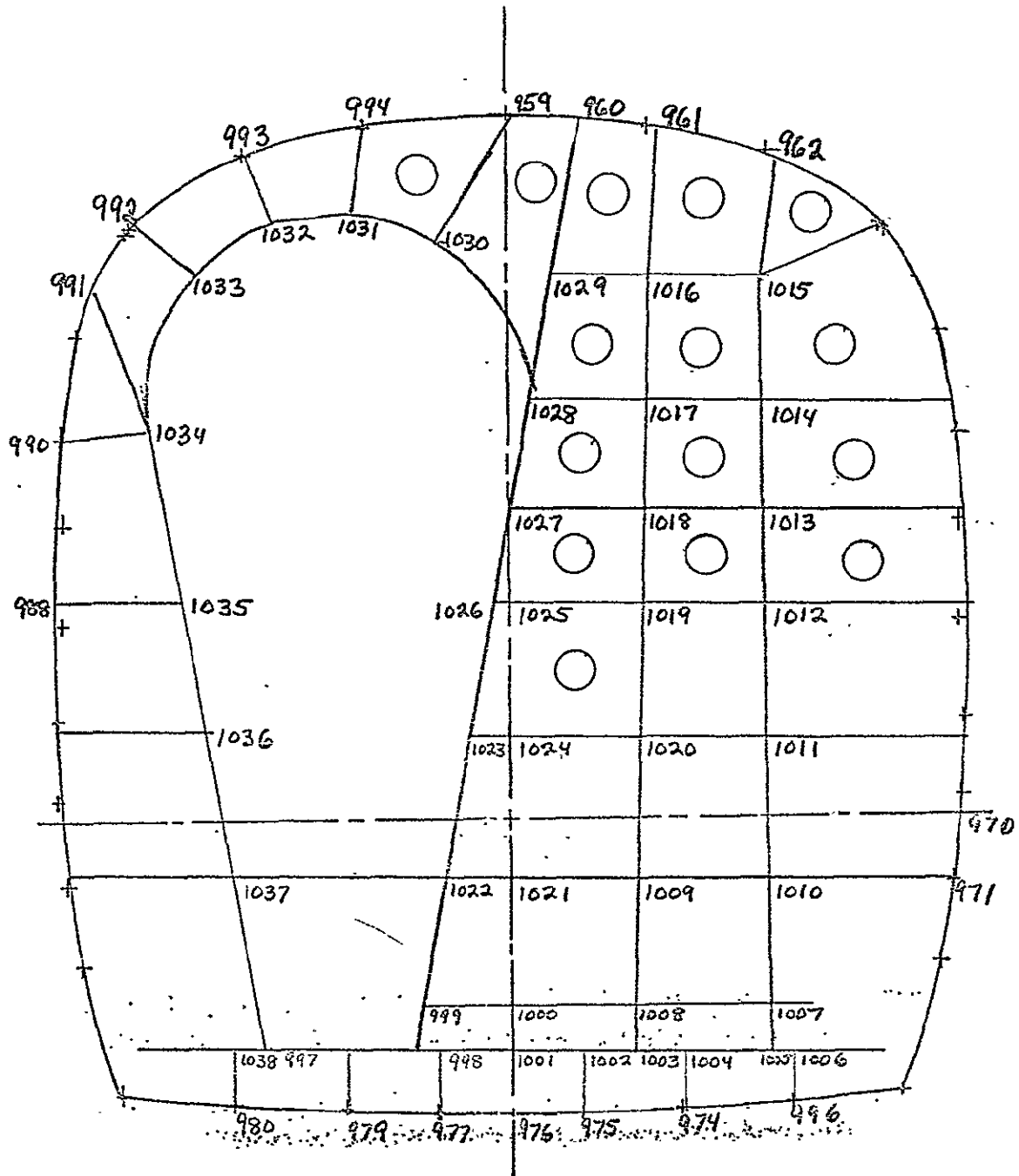
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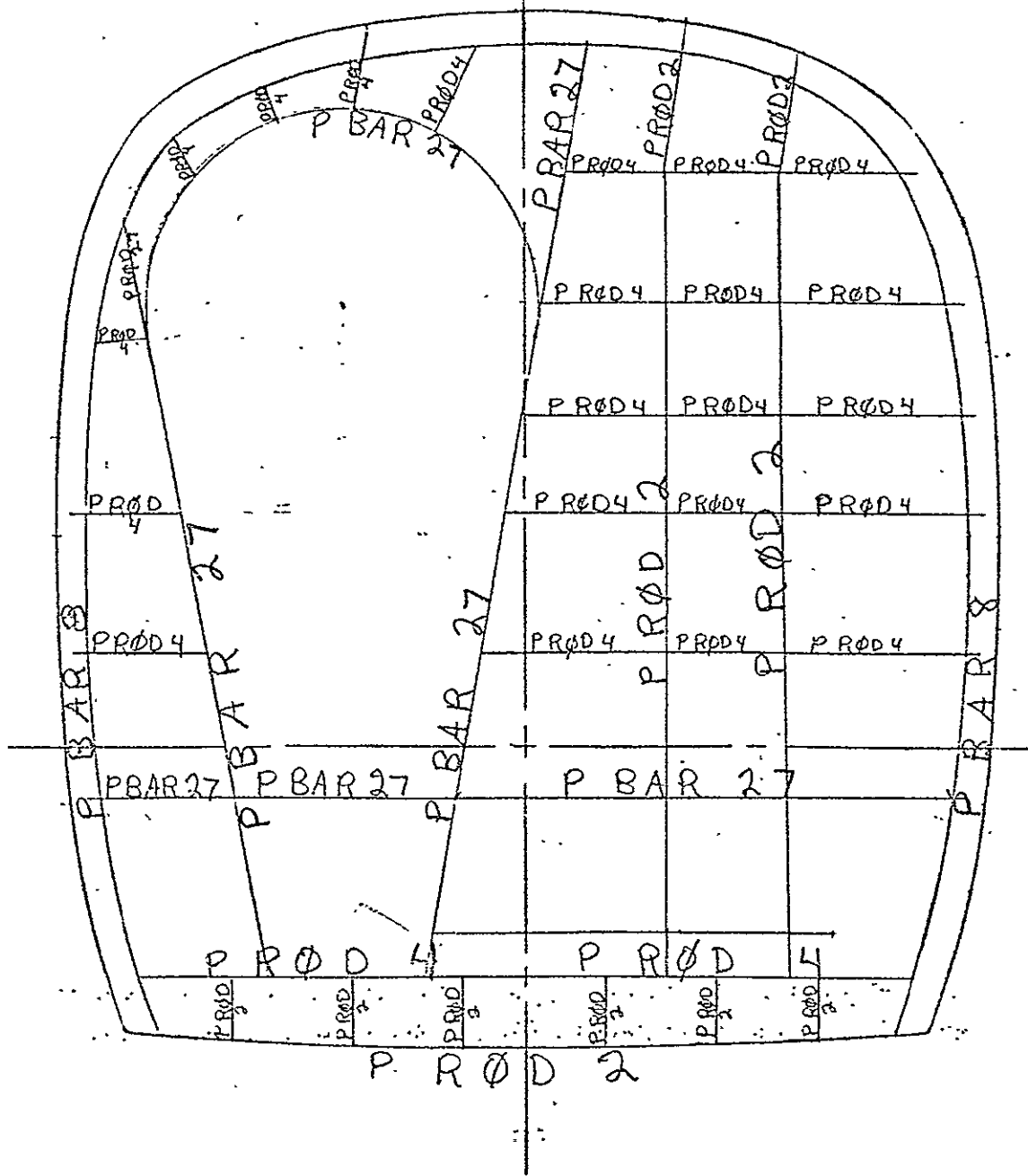
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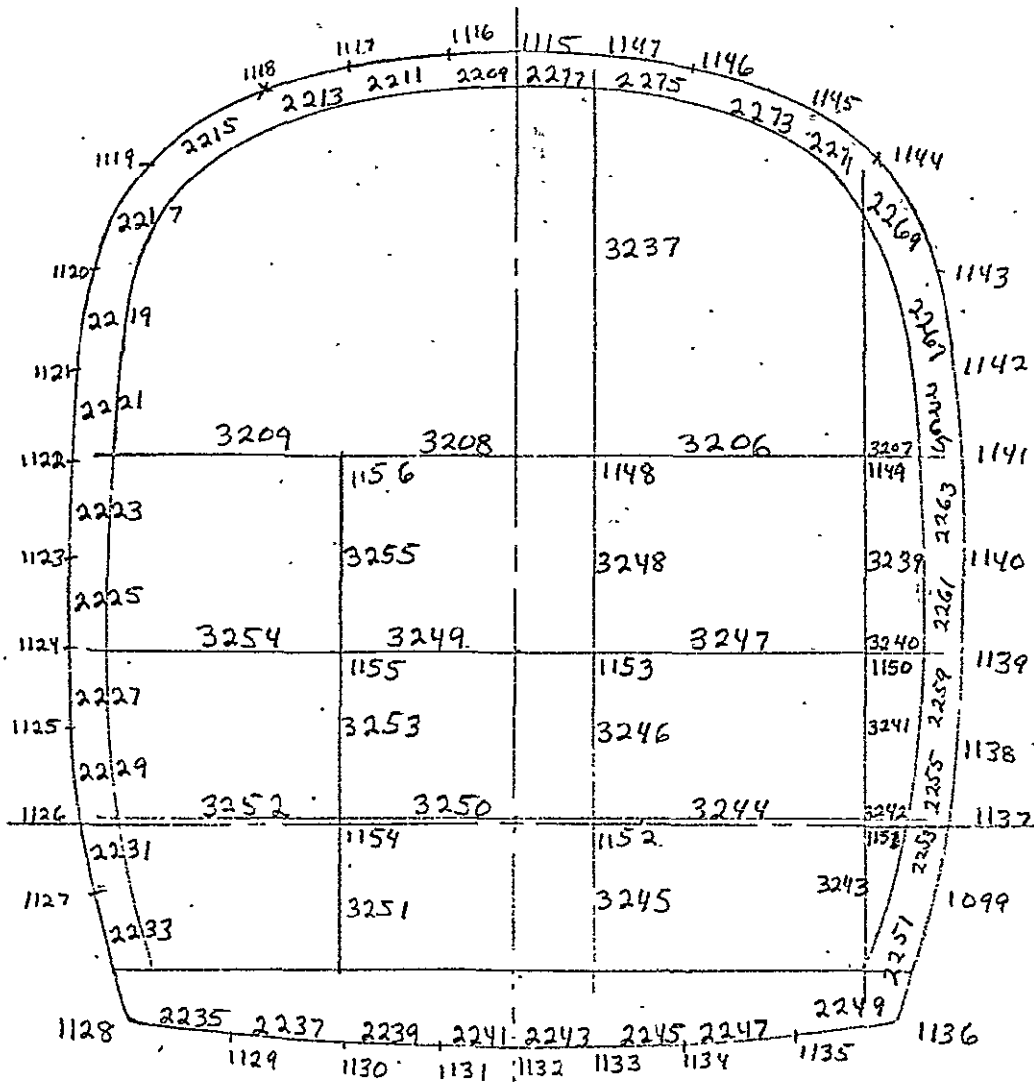






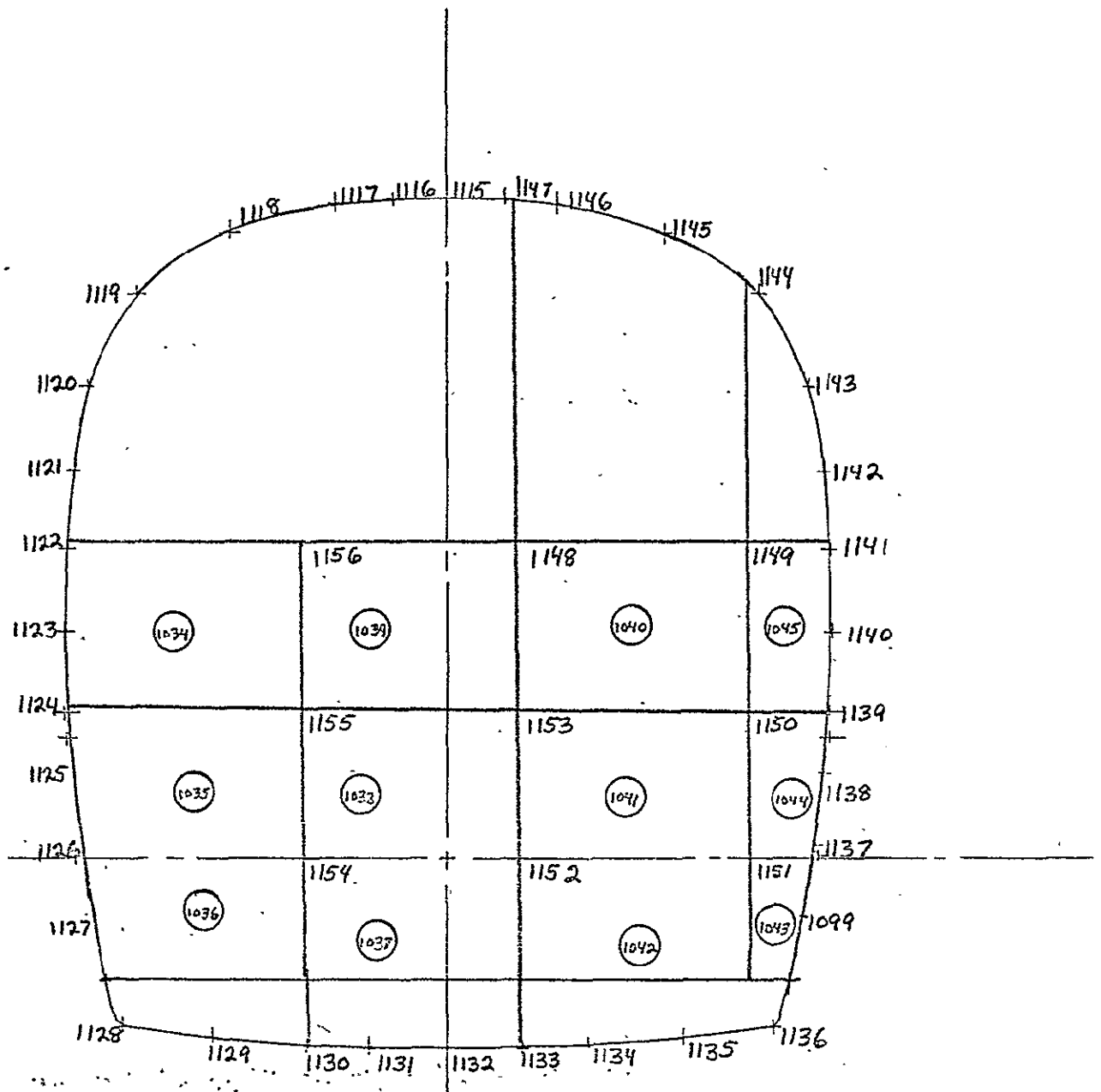
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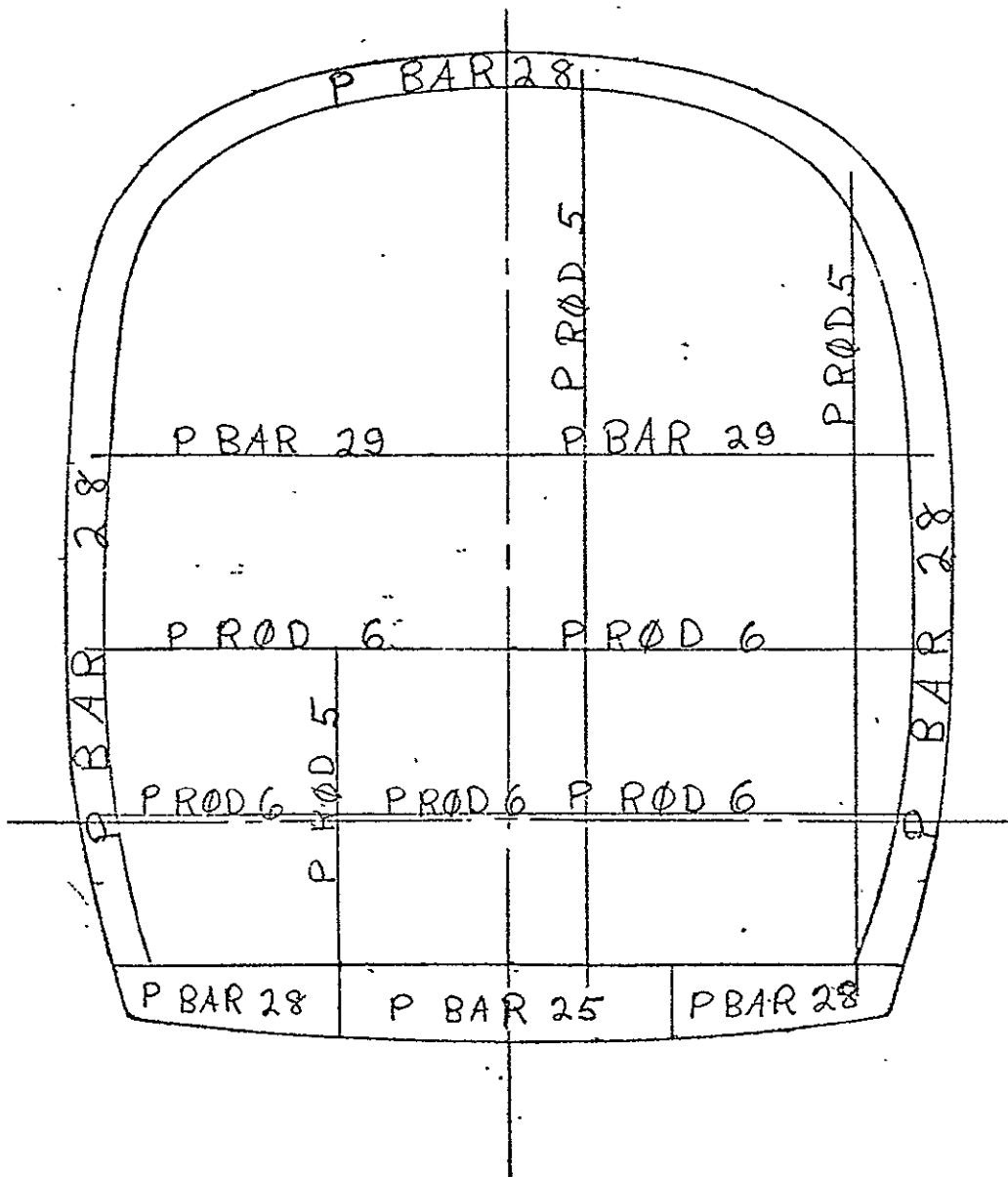
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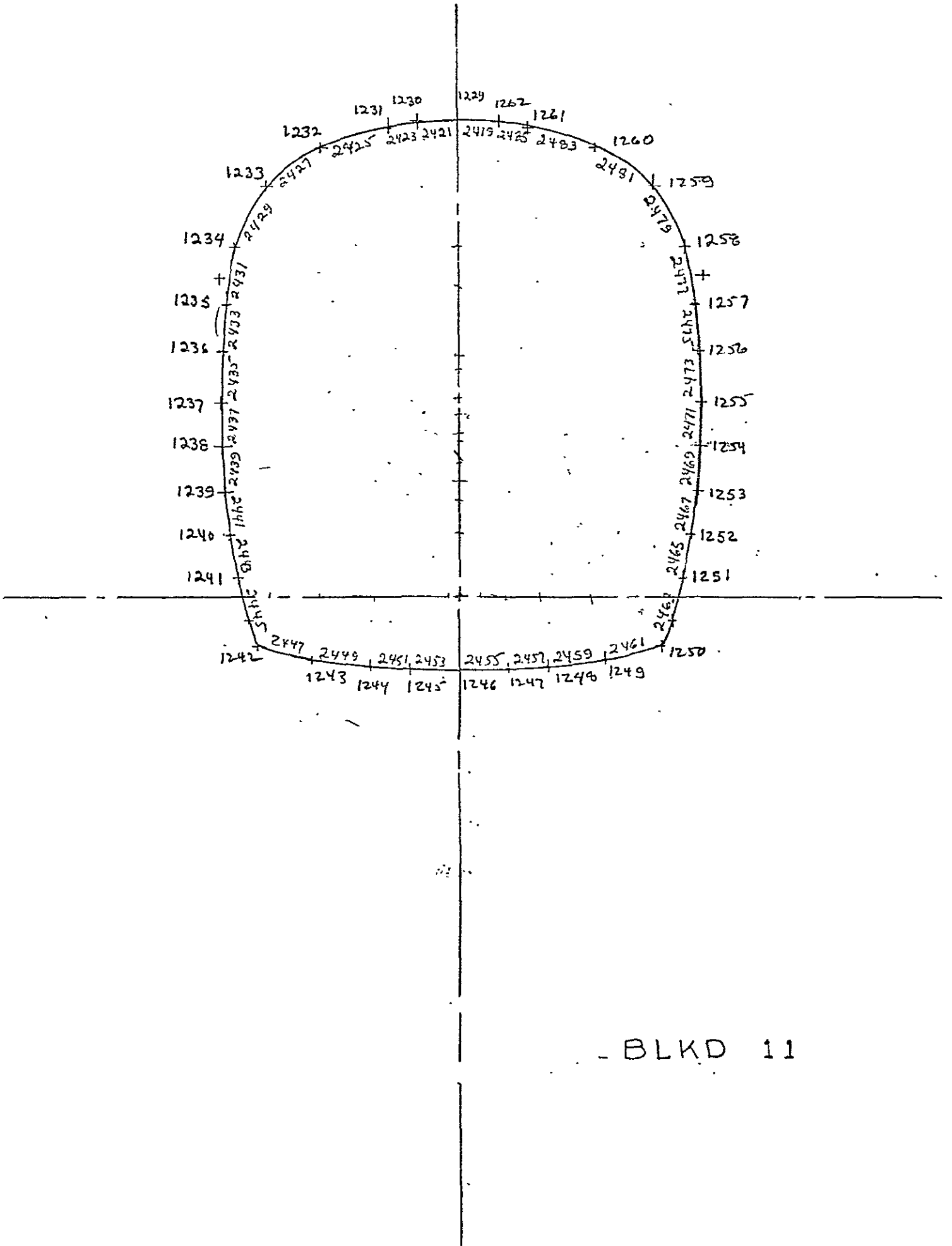
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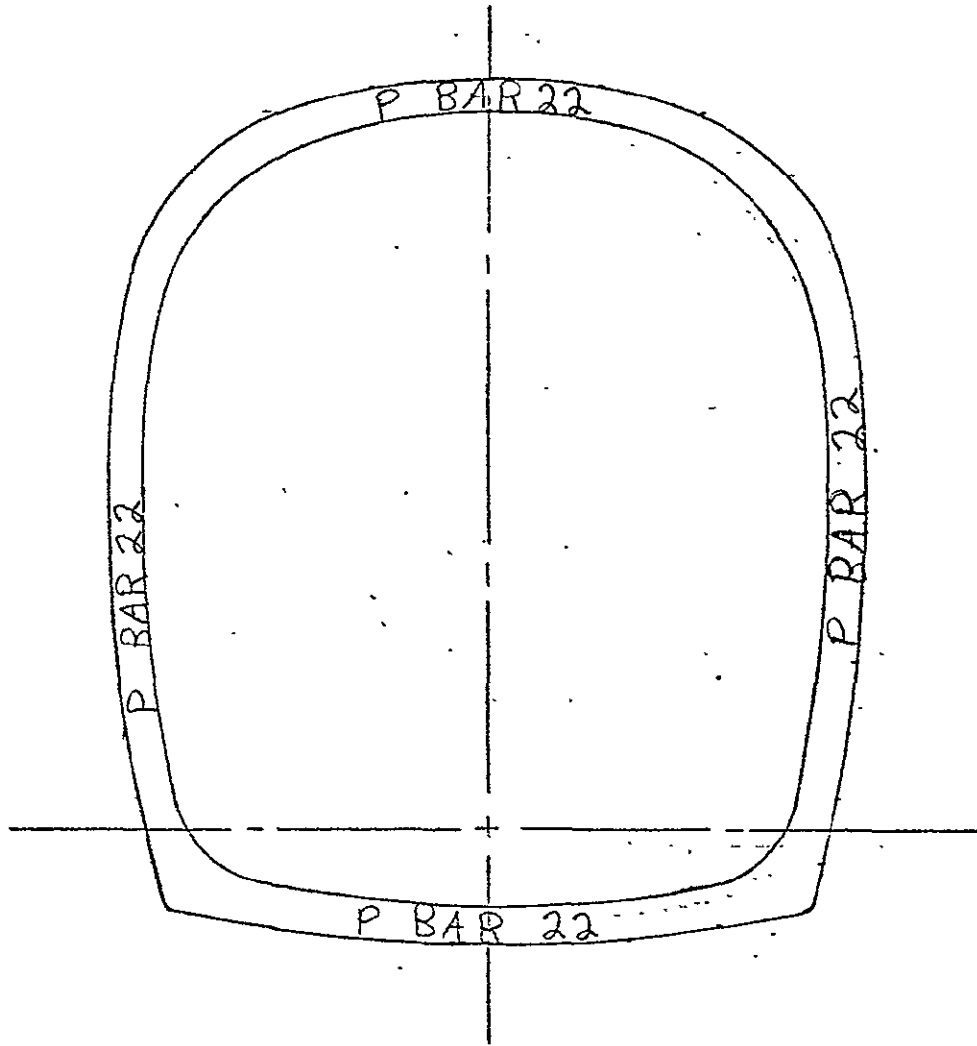
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- BLKD 11

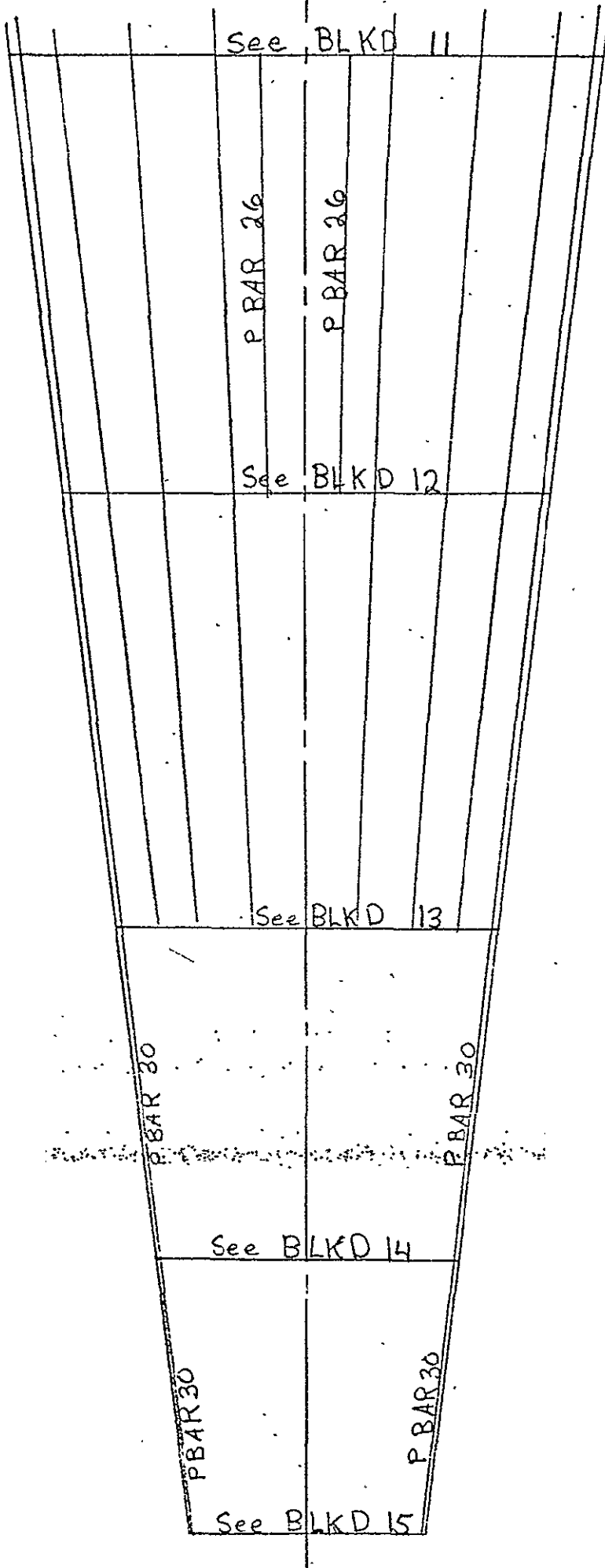


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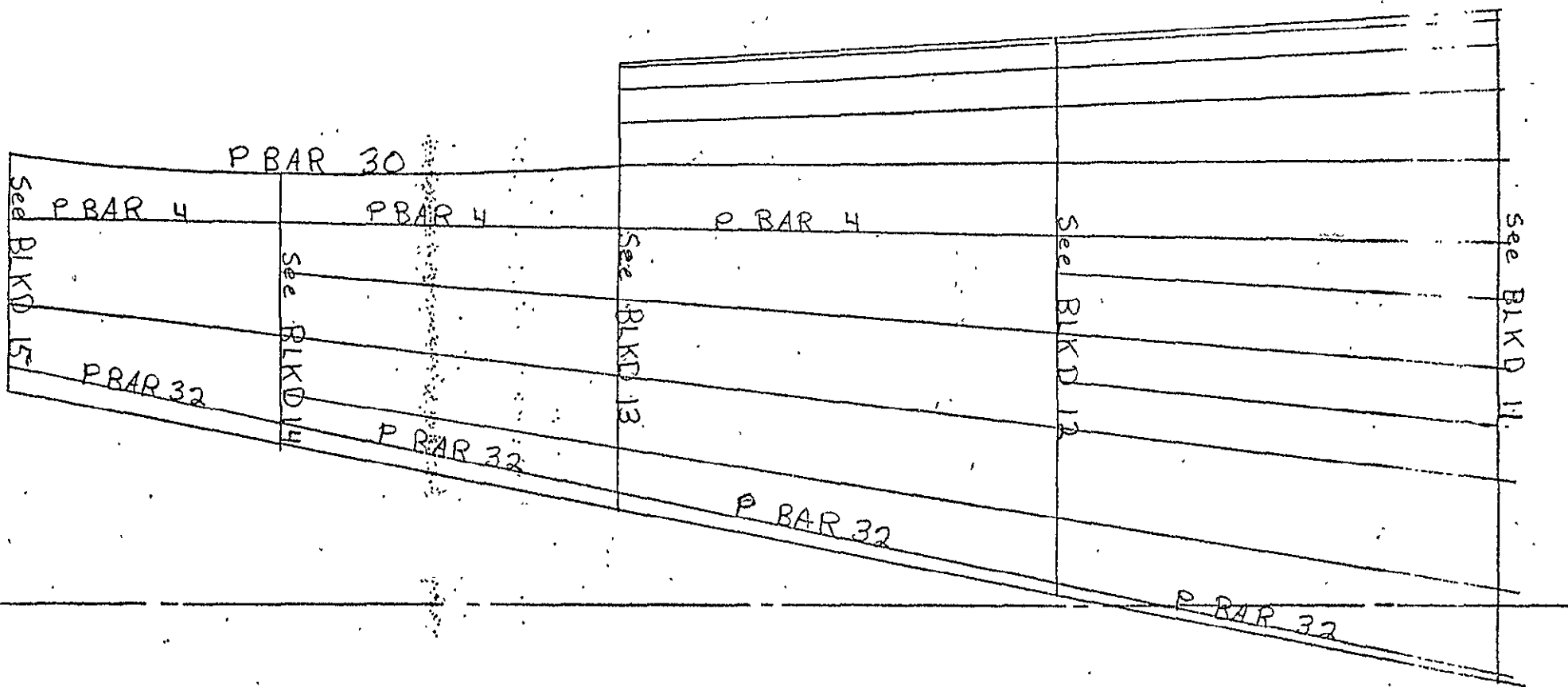
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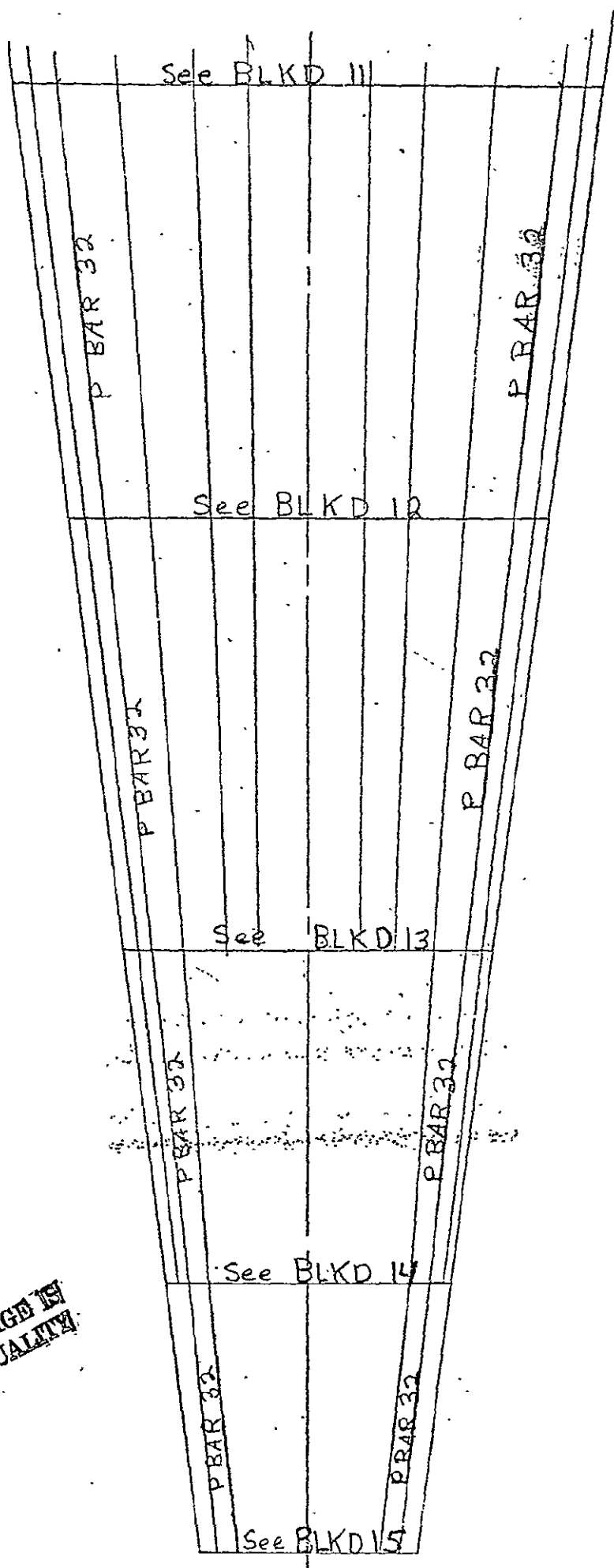
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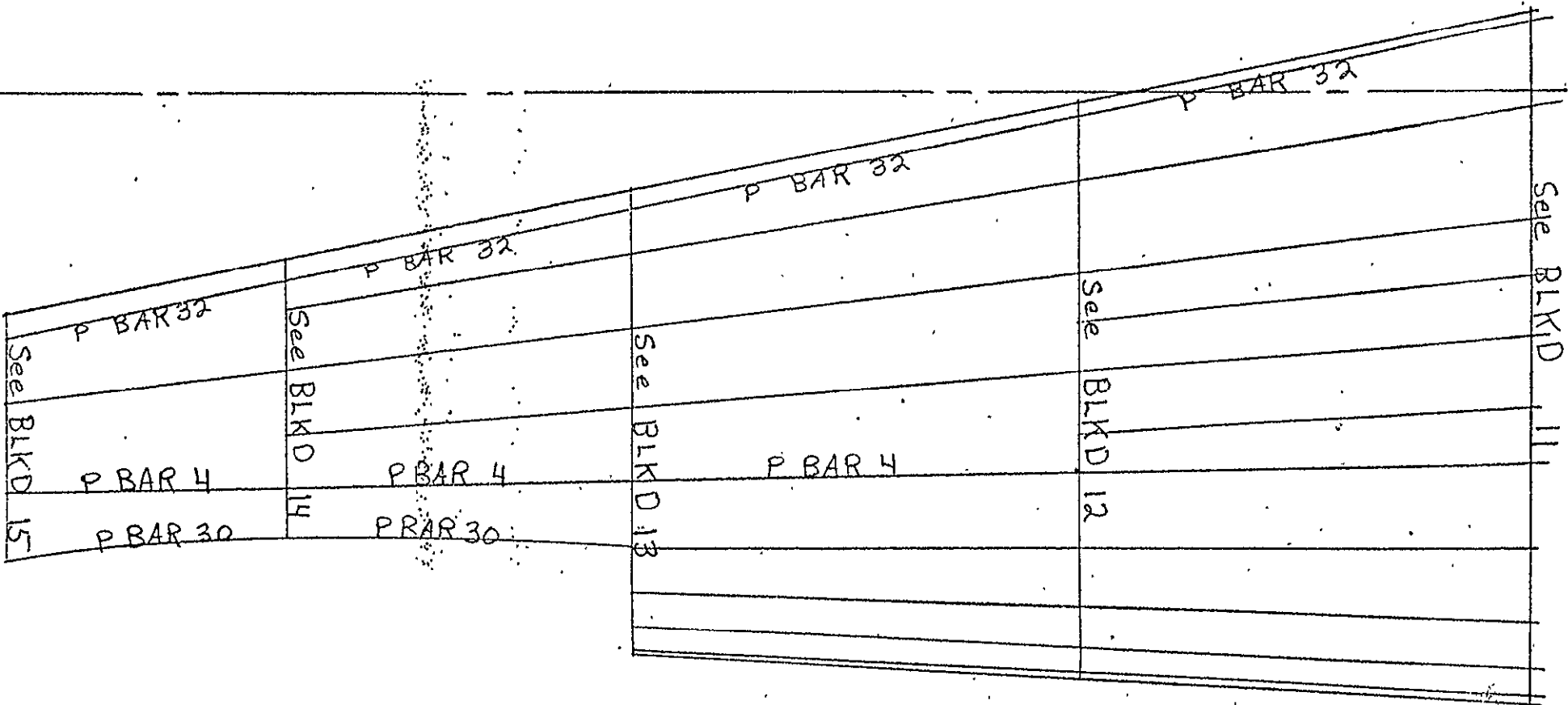
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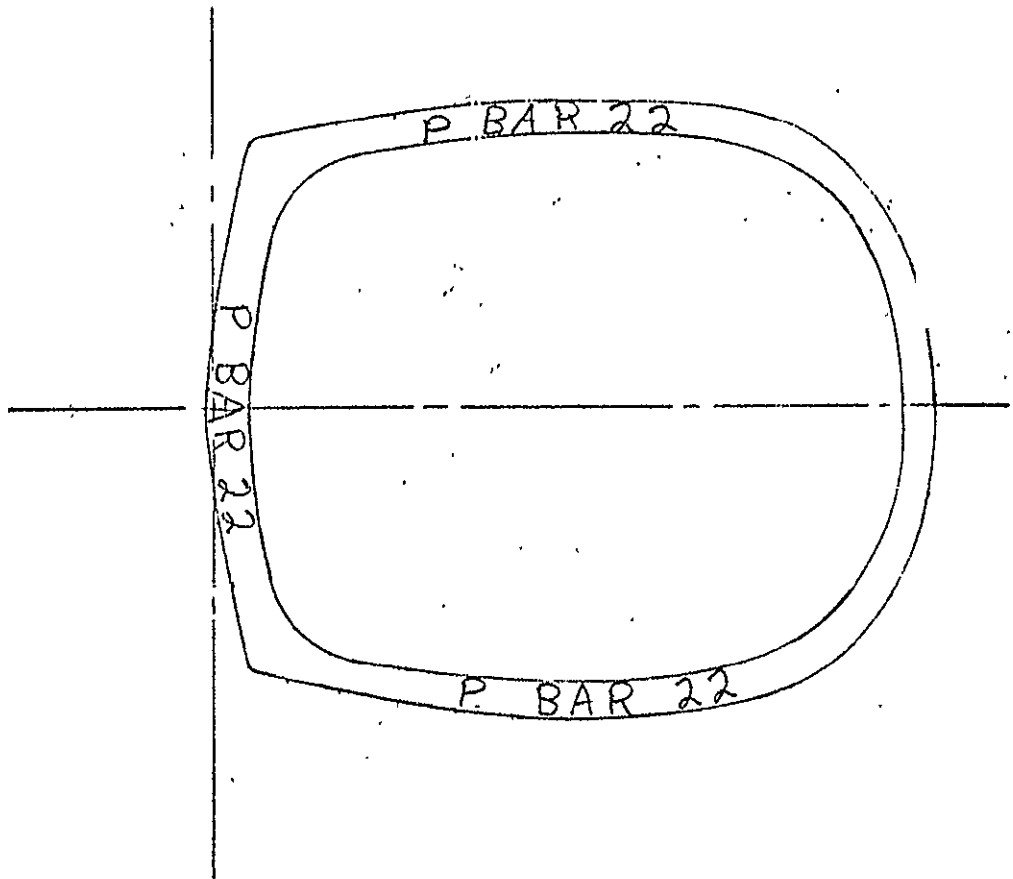
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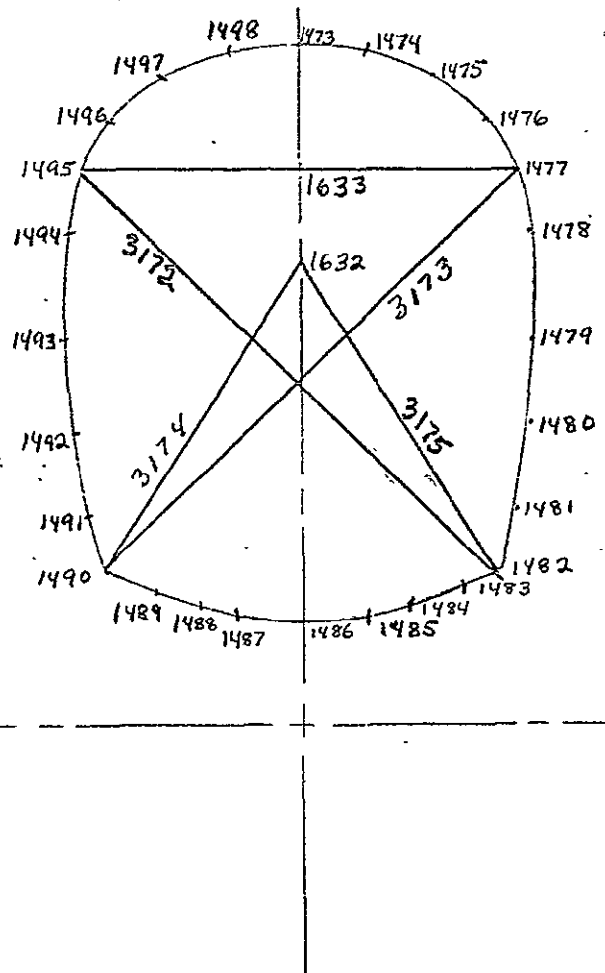
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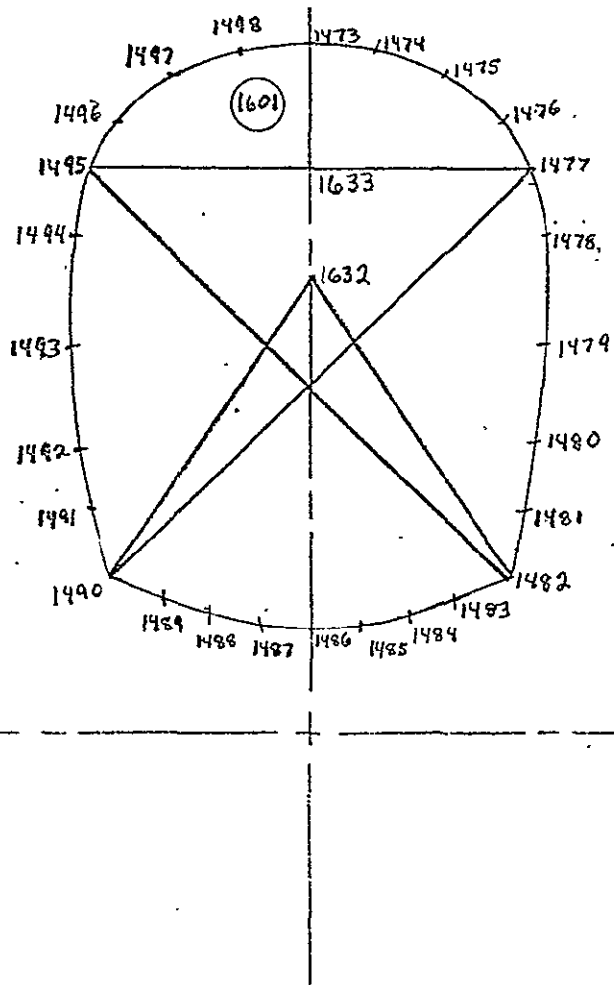
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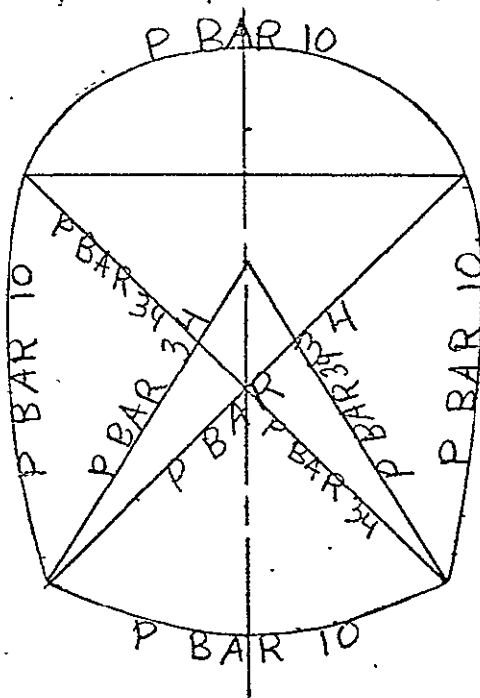


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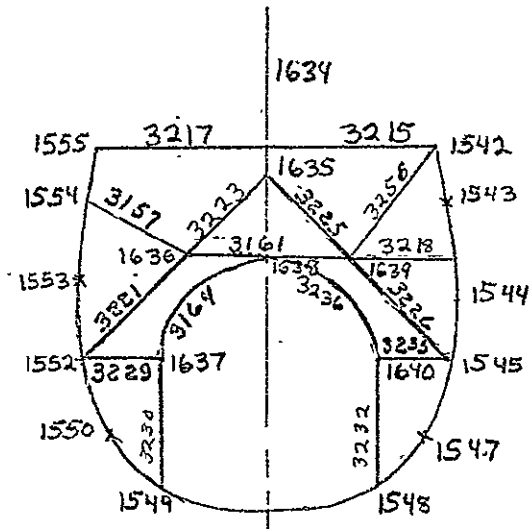




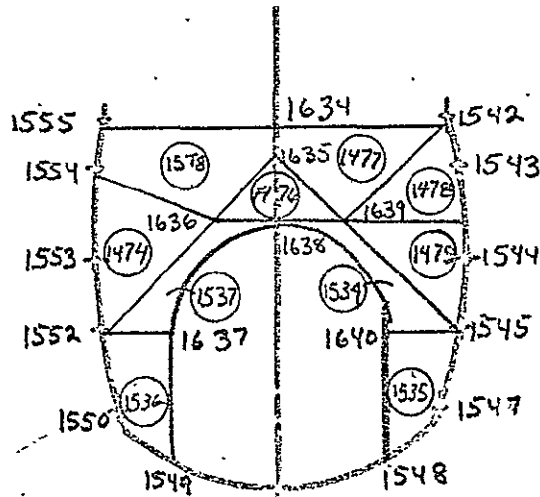
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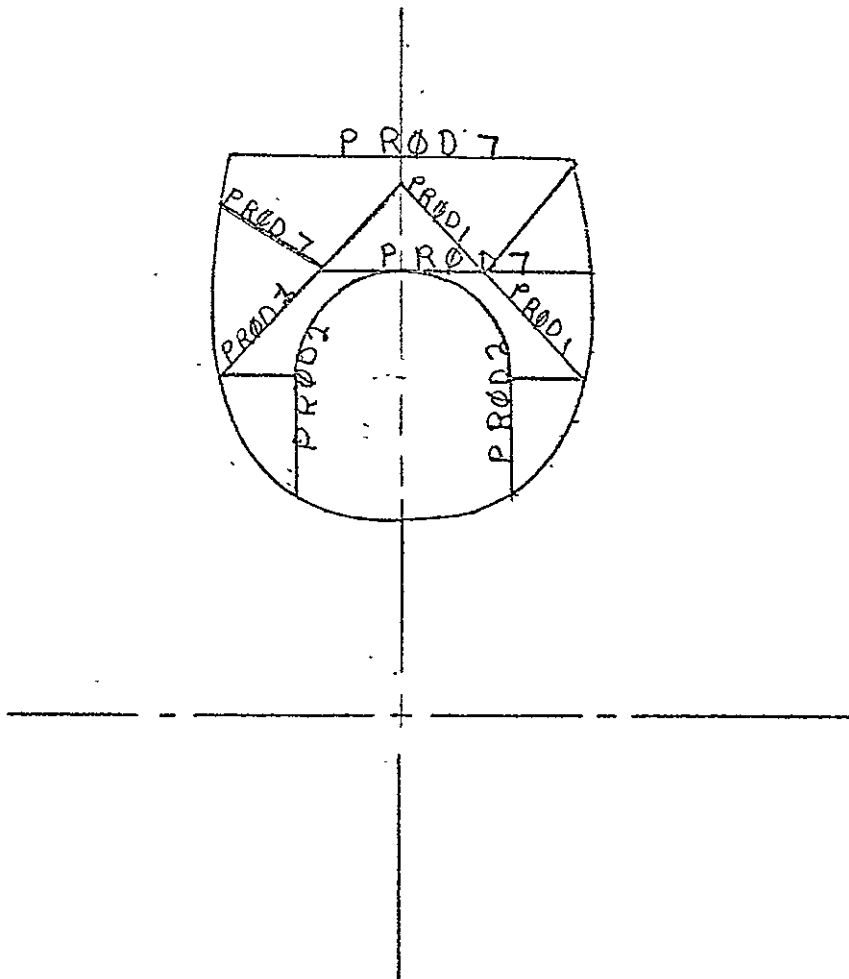


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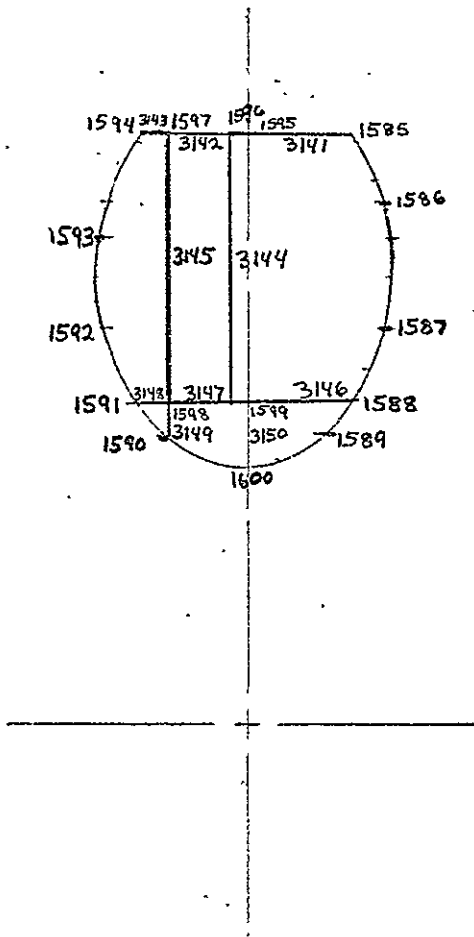


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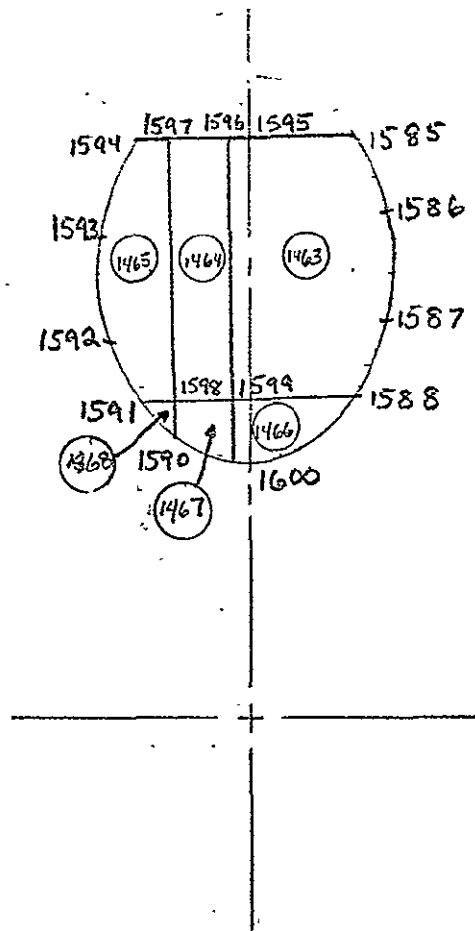
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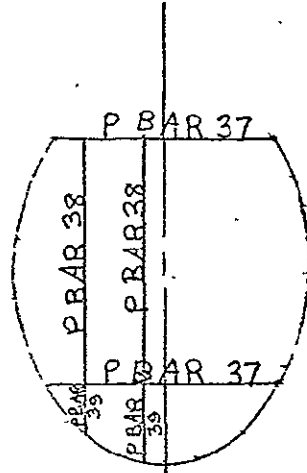
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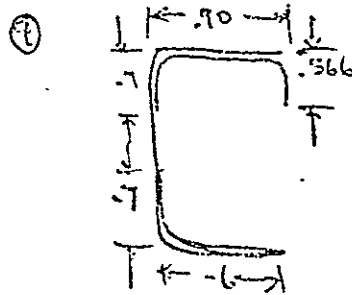
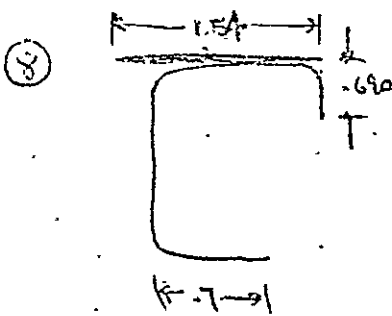
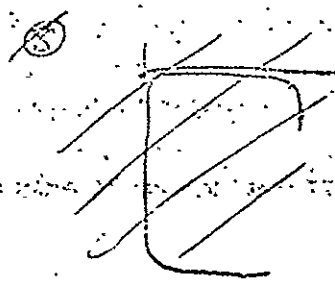
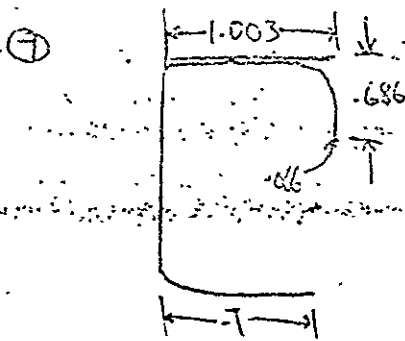
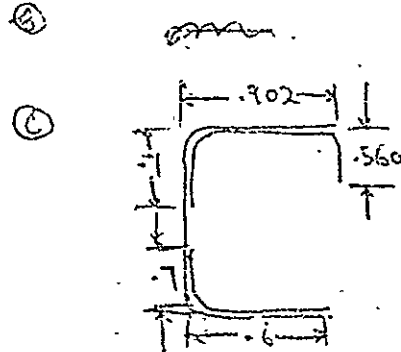
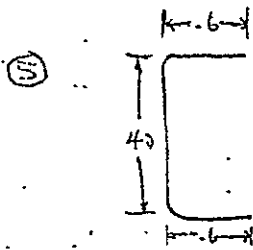
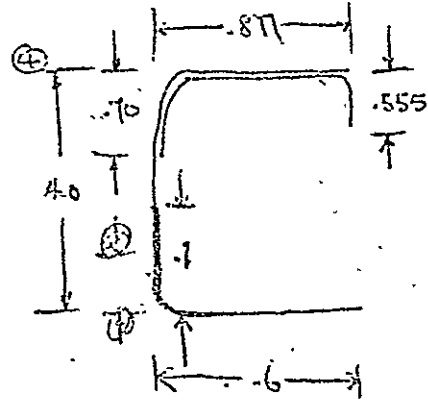
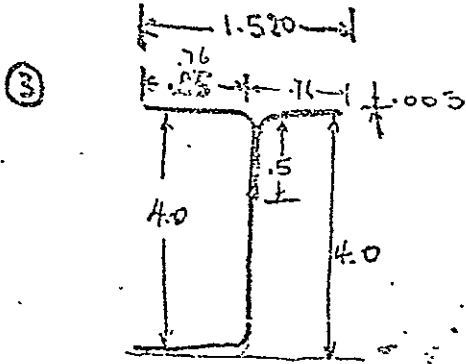
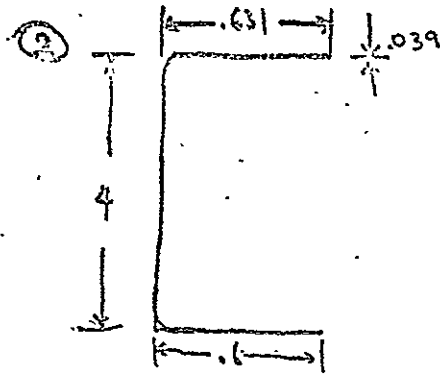
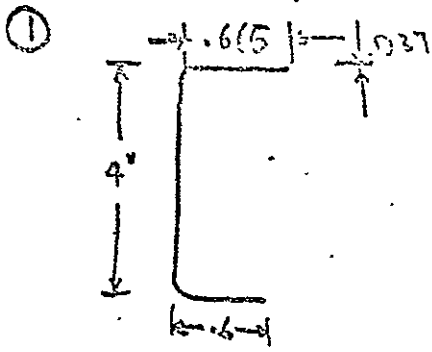
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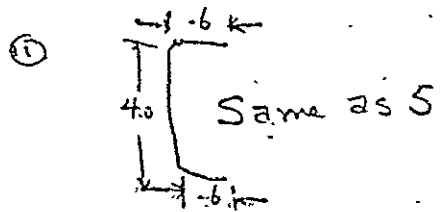


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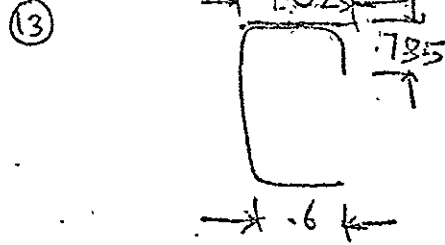


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⑫ same as # 11



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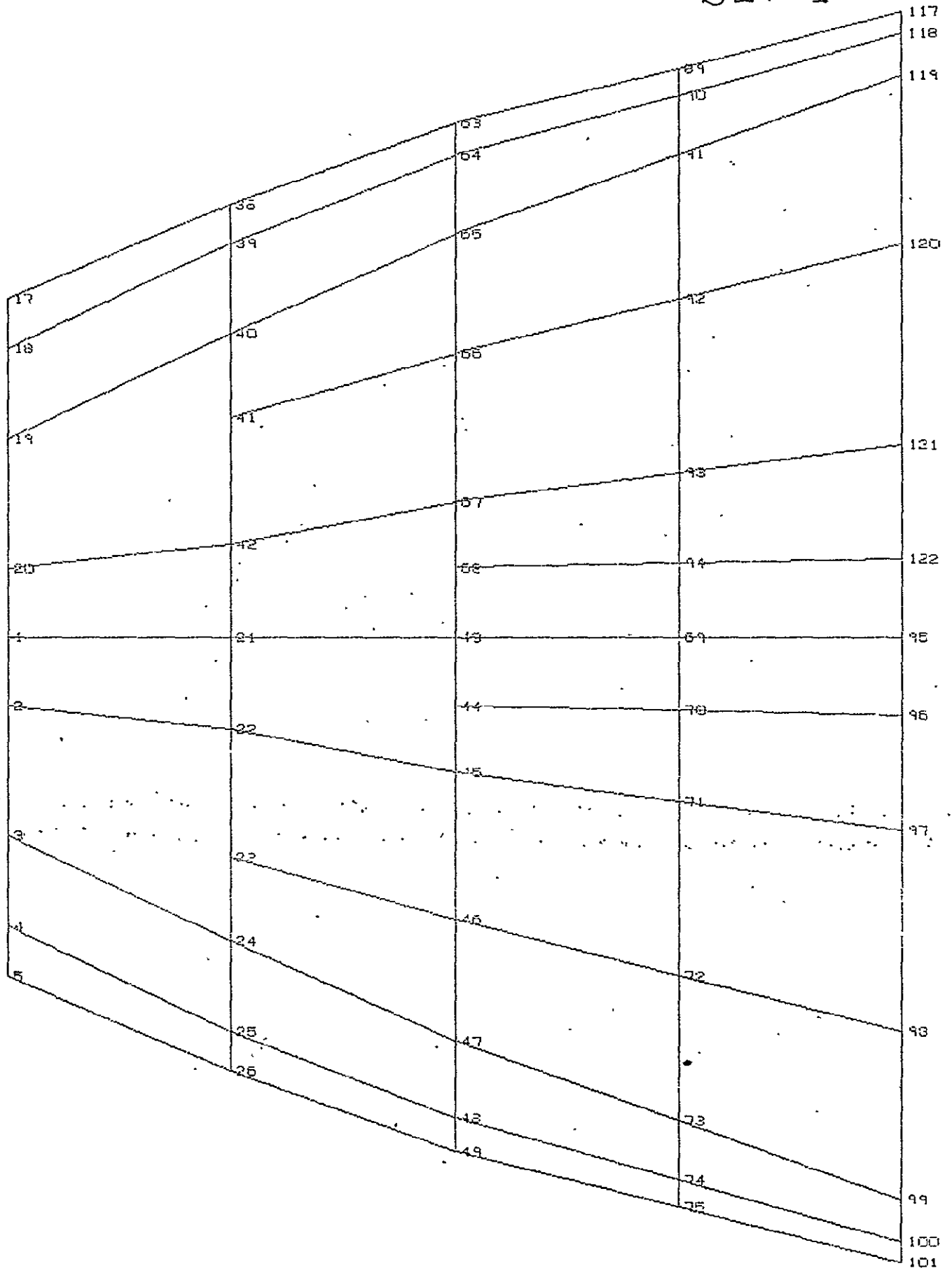
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SET 1



SET 1

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38RD	80RD	132RD	194RD
39RD	82RD	134RD	185RD
40RD	84RD	136RD	188RD
41RD	86RD	138RD	190RD
42RD	88RD	85BR	140BR
43RD	44RD	89RD	142RD
44RD	46RD	90RD	144RD
45RD	48RD	92RD	146RD
46RD	50RD	94RD	148RD
47RD		96RD	150RD

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170M	380M	640M	910M
180M	390M	650M	
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190M	410M	660M	
		670M	930M
200M	420M	680M	940M
		430M	690M
10M	210M	440M	700M
		450M	
20M	220M		710M
		460M	
30M	230M		720M
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8RD			50RD		96RD		150RD		276RD	316RD	358RD	392RD	424RD	452RD	494RD	528RD
10RD			52RD		98RD		152RD		278RD	318RD	360RD	394RD	426RD	454RD	496RD	530RD
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14RD			56RD		102RD		156RD		282RD	322RD	364RD	398RD	430RD	458RD	500RD	534RD
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Set 2

SET 3

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SET 3

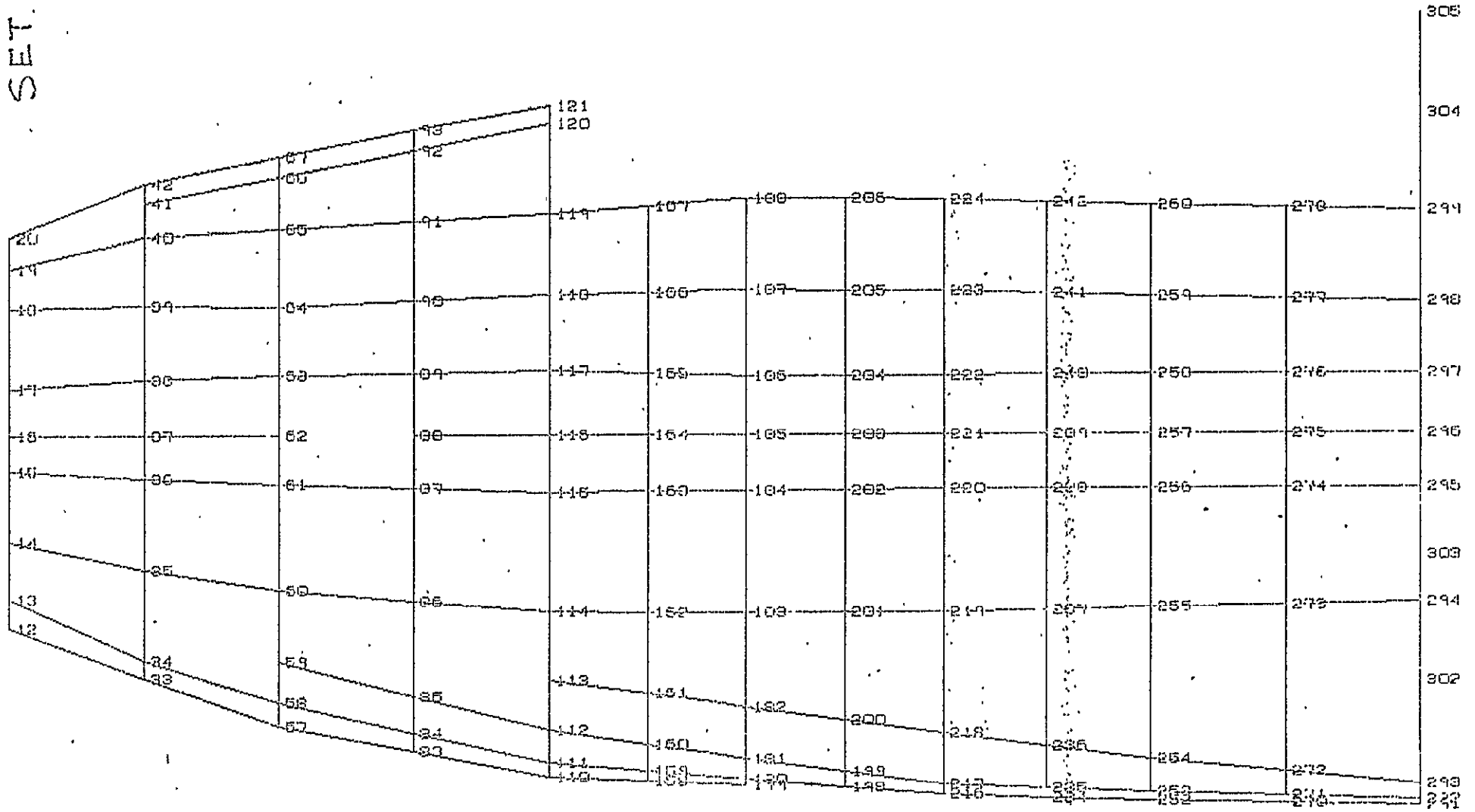
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				305RD	345RD	387RD	423RD	463RD	493RD	529RD	561RD
				306RD	346RD	388RD	424RD	464RD	494RD	530RD	562RD
				307RD	347RD	389RD	425RD	465RD	495RD	531RD	563RD
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				316RD	356RD	398RD	434RD	474RD	504RD	540RD	572RD
				317RD	357RD	399RD	435RD	475RD	505RD	541RD	573RD
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				319RD	359RD	401RD	437RD	477RD	507RD	543RD	575RD
				320RD	360RD	402RD	438RD	478RD	508RD	544RD	576RD
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				325RD	365RD	407RD	443RD	483RD	513RD	549RD	581RD
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				327RD	367RD	409RD	445RD	485RD	515RD	551RD	583RD
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				329RD	369RD	411RD	447RD	487RD	517RD	553RD	585RD
				330RD	370RD	412RD	448RD	488RD	518RD	554RD	586RD
				331RD	371RD	413RD	449RD	489RD	519RD	555RD	587RD
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				334RD	374RD	416RD	452RD	492RD	522RD	558RD	590RD
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				390RD	430RD	472RD	508RD	548RD	578RD	614RD	646RD
				391RD	431RD	473RD	509RD	549RD	579RD	615RD	647RD
				392RD	432RD	474RD	510RD	550RD	580RD	616RD	648RD

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70M	280M	510M	770M	1380M	1450M	1590M	1840M	1990M	2150M	2320M	2480M
80M	290M	520M	780M	1390M	1490M	1600M	1850M	2000M	2160M	2330M	2490M
90M	300M	530M	790M	1400M	1500M	1700M	1860M	2010M	2170M	2340M	2500M
100M	310M	540M	800M	1410M	1510M						
110M	320M	550M	810M	1420M	1520M						
120M	330M	560M	820M	1430M	1530M						
130M	340M	570M	830M	1440M	1540M						
140M	350M	580M	840M	1450M	1550M	1710M	1870M	2020M	2180M	2350M	2510M
		590M	850M	1460M	1560M	1720M	1880M	2030M	2190M	2360M	2520M
		600M	860M	1470M	1570M	1730M	1890M	2040M	2200M	2370M	2530M

5
2
3

SET. 4



SET 4

36RD	82RD	134RD	186RD	311RD	352RD	386RD	419RD	453RD	489RD	523RD	557RD
35RD	81RD	133RD	185RD	310RD	351RD	385RD	418RD	452RD	488RD	522RD	556RD
34RD	80RD	132RD	184RD	309RD	350RD	384RD	417RD	451RD	487RD	521RD	555RD
33RD	79RD	131RD	183RD	308RD	349RD	383RD	416RD	450RD	486RD	520RD	554RD
32RD	78RD	130RD	182RD	307RD	348RD	382RD	415RD	449RD	485RD	519RD	553RD
31RD	77RD	129RD	181RD	306RD	347RD	381RD	414RD	448RD	484RD	518RD	552RD
30RD	76RD	128RD	180RD	305RD	346RD	380RD	413RD	447RD	483RD	517RD	551RD
29RD	75RD	127RD	179RD	304RD	345RD	379RD	412RD	446RD	482RD	516RD	550RD
28RD	74RD	126RD	178RD	303RD	344RD	378RD	411RD	445RD	481RD	515RD	549RD
27RD	73RD	125RD	177RD	302RD	343RD	377RD	410RD	444RD	480RD	514RD	548RD
26RD	72RD	124RD	176RD	301RD	342RD	376RD	409RD	443RD	479RD	513RD	547RD
25RD	71RD	123RD	175RD	300RD	341RD	375RD	408RD	442RD	478RD	512RD	546RD
24RD	70RD	122RD	174RD	299RD	340RD	374RD	407RD	441RD	477RD	511RD	545RD
23RD	69RD	121RD	173RD	298RD	339RD	373RD	406RD	440RD	476RD	510RD	544RD
22RD	68RD	120RD	172RD	297RD	338RD	372RD	405RD	439RD	475RD	509RD	543RD
21RD	67RD	119RD	171RD	296RD	337RD	371RD	404RD	438RD	474RD	508RD	542RD
20RD	66RD	118RD	170RD	295RD	336RD	370RD	403RD	437RD	473RD	507RD	541RD
19RD	65RD	117RD	169RD	294RD	335RD	369RD	402RD	436RD	472RD	506RD	540RD
18RD	64RD	116RD	168RD	293RD	334RD	368RD	401RD	435RD	471RD	505RD	539RD
17RD	63RD	115RD	167RD	292RD	333RD	367RD	400RD	434RD	470RD	504RD	538RD
16RD	62RD	114RD	166RD	291RD	332RD	366RD	399RD	433RD	469RD	503RD	537RD
15RD	61RD	113RD	165RD	290RD	331RD	365RD	398RD	432RD	468RD	502RD	536RD
14RD	60RD	112RD	164RD	289RD	330RD	364RD	397RD	431RD	467RD	501RD	535RD
13RD	59RD	111RD	163RD	288RD	329RD	363RD	396RD	430RD	466RD	500RD	534RD
12RD	58RD	110RD	162RD	287RD	328RD	362RD	395RD	429RD	465RD	499RD	533RD
11RD	57RD	109RD	161RD	286RD	327RD	361RD	394RD	428RD	464RD	498RD	532RD
10RD	56RD	108RD	160RD	285RD	326RD	360RD	393RD	427RD	463RD	497RD	531RD
9RD	55RD	107RD	159RD	284RD	325RD	359RD	392RD	426RD	462RD	496RD	530RD
8RD	54RD	106RD	158RD	283RD	324RD	358RD	391RD	425RD	461RD	495RD	529RD
7RD	53RD	105RD	157RD	282RD	323RD	357RD	390RD	424RD	460RD	494RD	528RD
6RD	52RD	104RD	156RD	281RD	322RD	356RD	389RD	423RD	459RD	493RD	527RD
5RD	51RD	103RD	155RD	280RD	321RD	355RD	388RD	422RD	458RD	492RD	526RD
4RD	50RD	102RD	154RD	279RD	320RD	354RD	387RD	421RD	457RD	491RD	525RD
3RD	49RD	101RD	153RD	278RD	319RD	353RD	386RD	420RD	456RD	490RD	524RD
2RD	48RD	100RD	152RD	277RD	318RD	352RD	385RD	419RD	455RD	489RD	523RD
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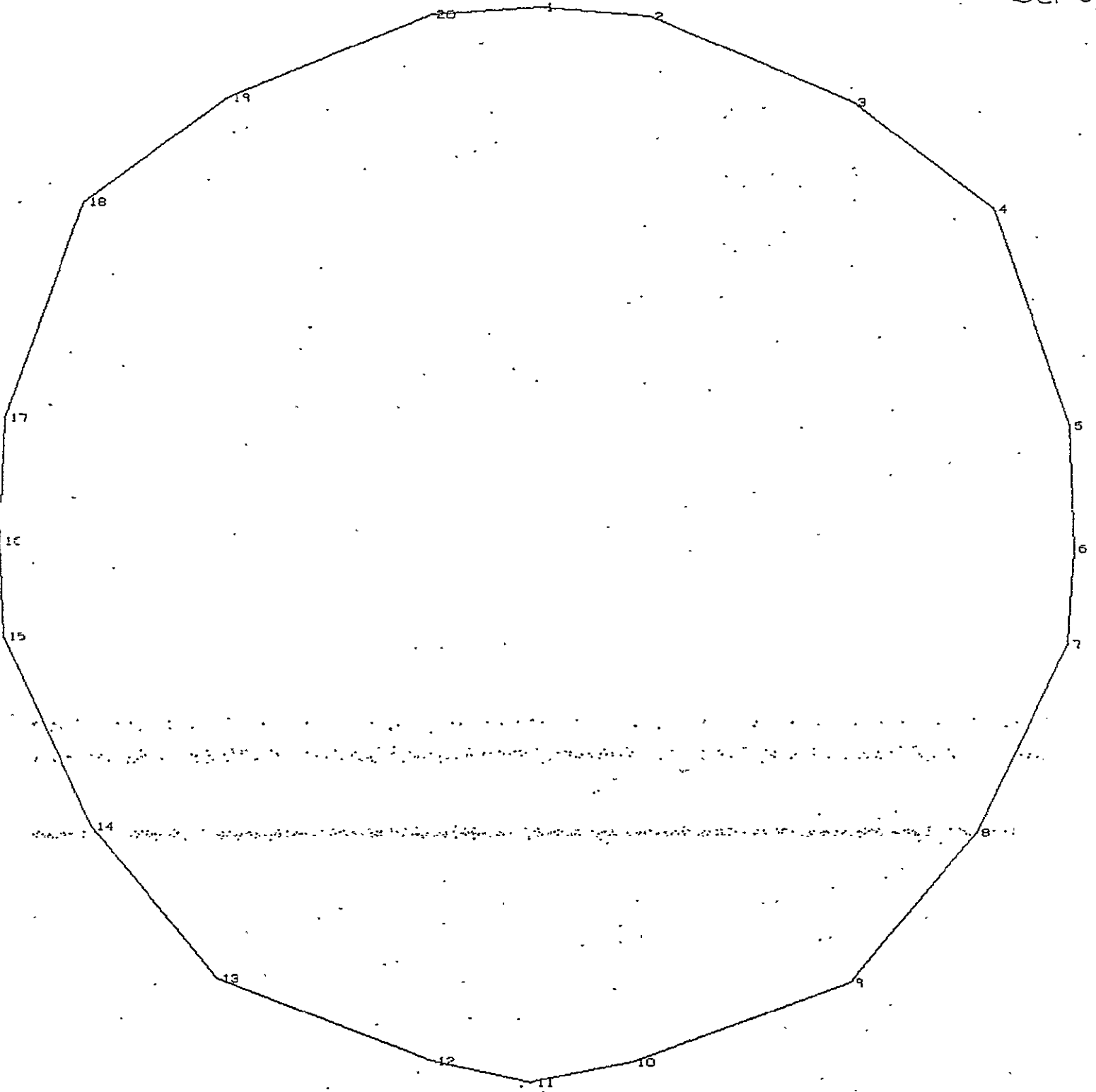
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Set 4.

	410M	550M	920M									
190M	400M	650M	910M									
180M	390M	640M	900M	1420M	1620M	1780M	1930M	2090M	2250M	2410M	2570M	
170M	380M	630M	890M	1410M	1610M	1770M	1920M	2080M	2240M	2400M	2560M	
160M	370M	620M	880M	1400M	1600M	1760M	1910M	2070M	2230M	2390M	2550M	
150M	360M	610M	870M	1390M	1590M	1750M	1900M	2060M	2220M	2380M	2540M	
140M	350M	600M	860M	1380M	1580M	1740M	1890M	2050M	2210M	2370M	2530M	
130M	340M	590M	850M	1370M	1570M	1730M	1880M	2040M	2200M	2360M	2520M	
120M	330M	580M	840M	1360M	1560M	1720M	1870M	2030M	2190M	2350M	2510M	

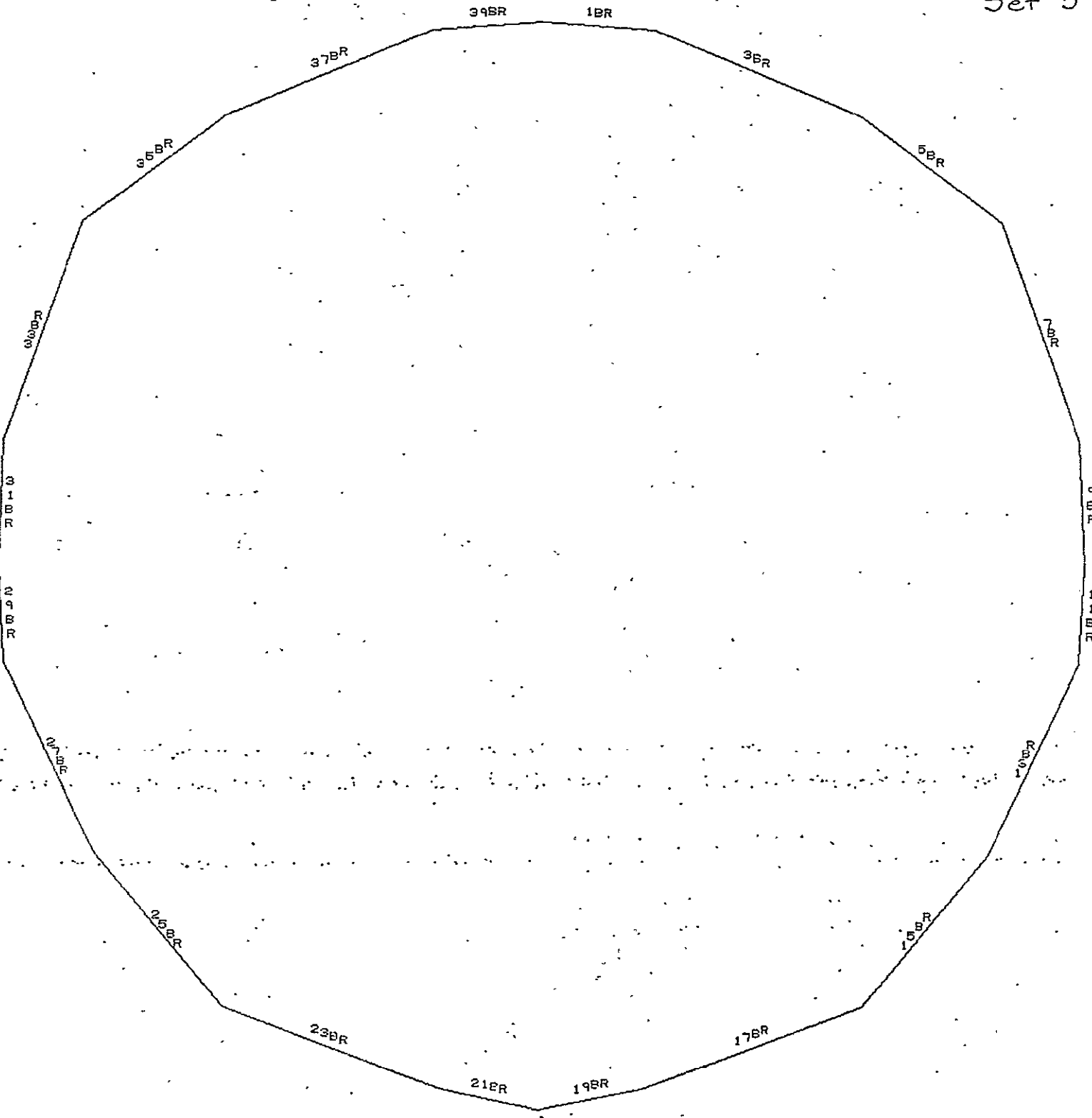
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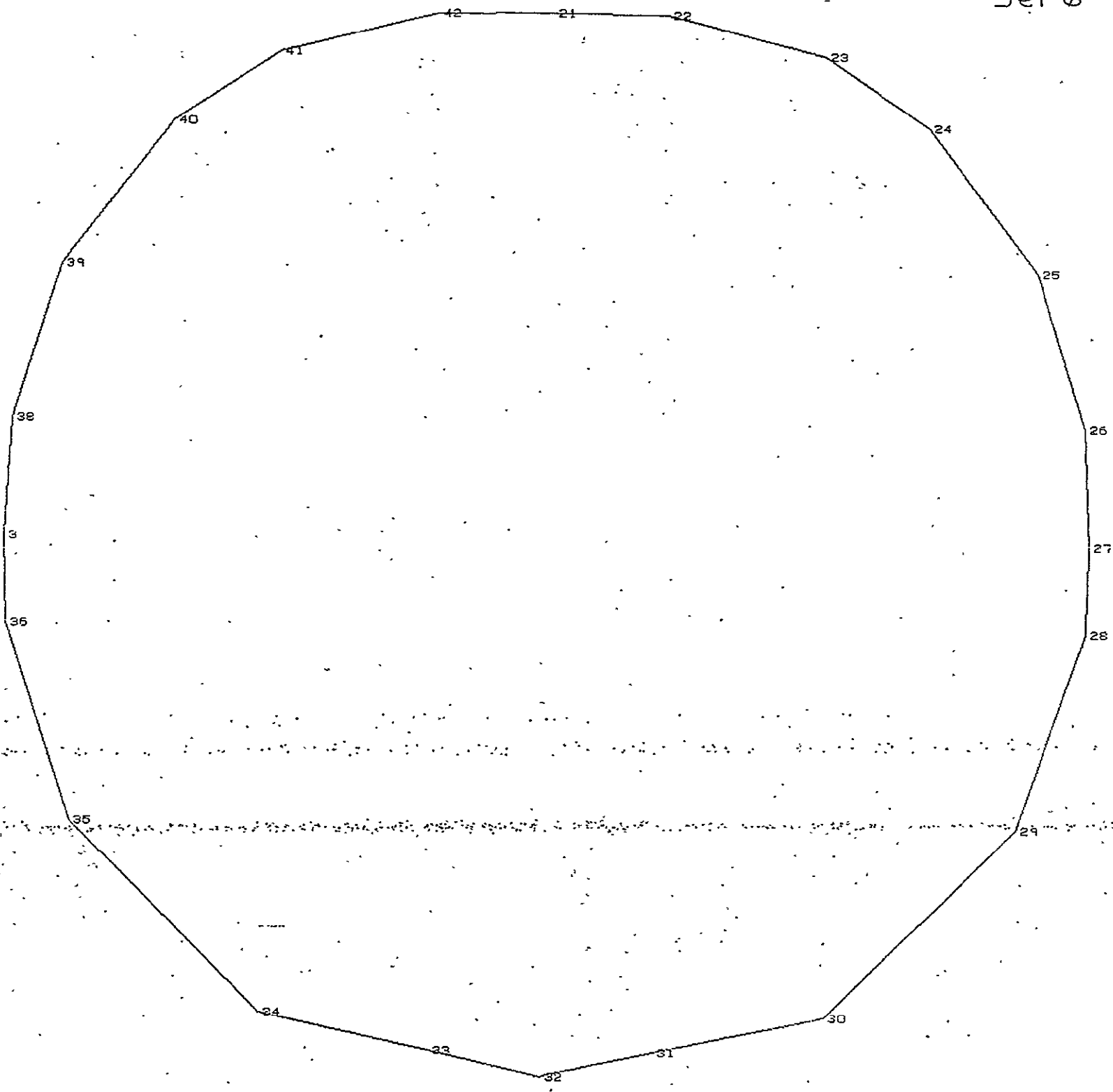
TEST FUSELAGE
UNDEFORMED SHAPE

Set 5

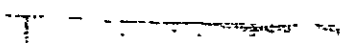


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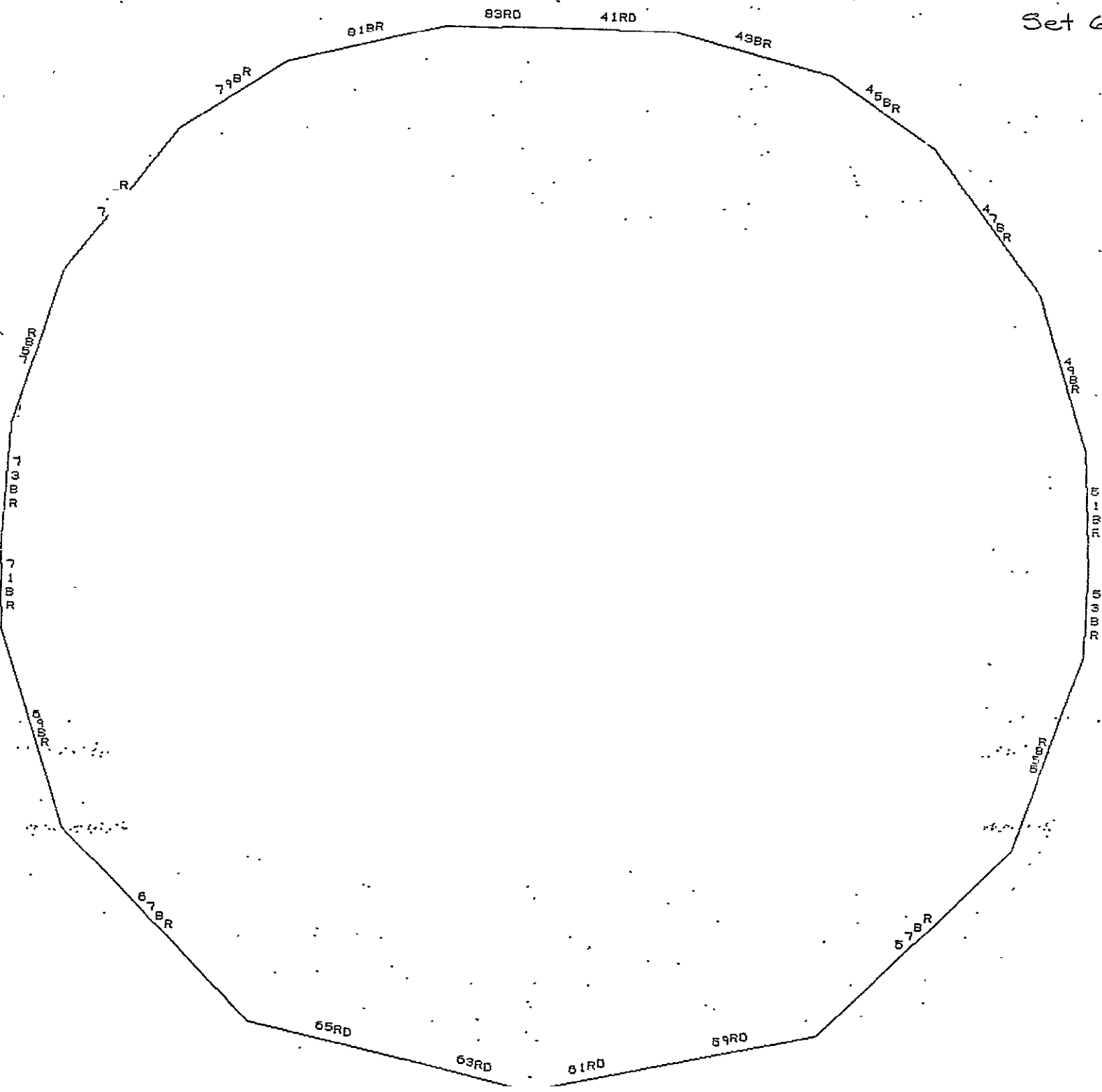
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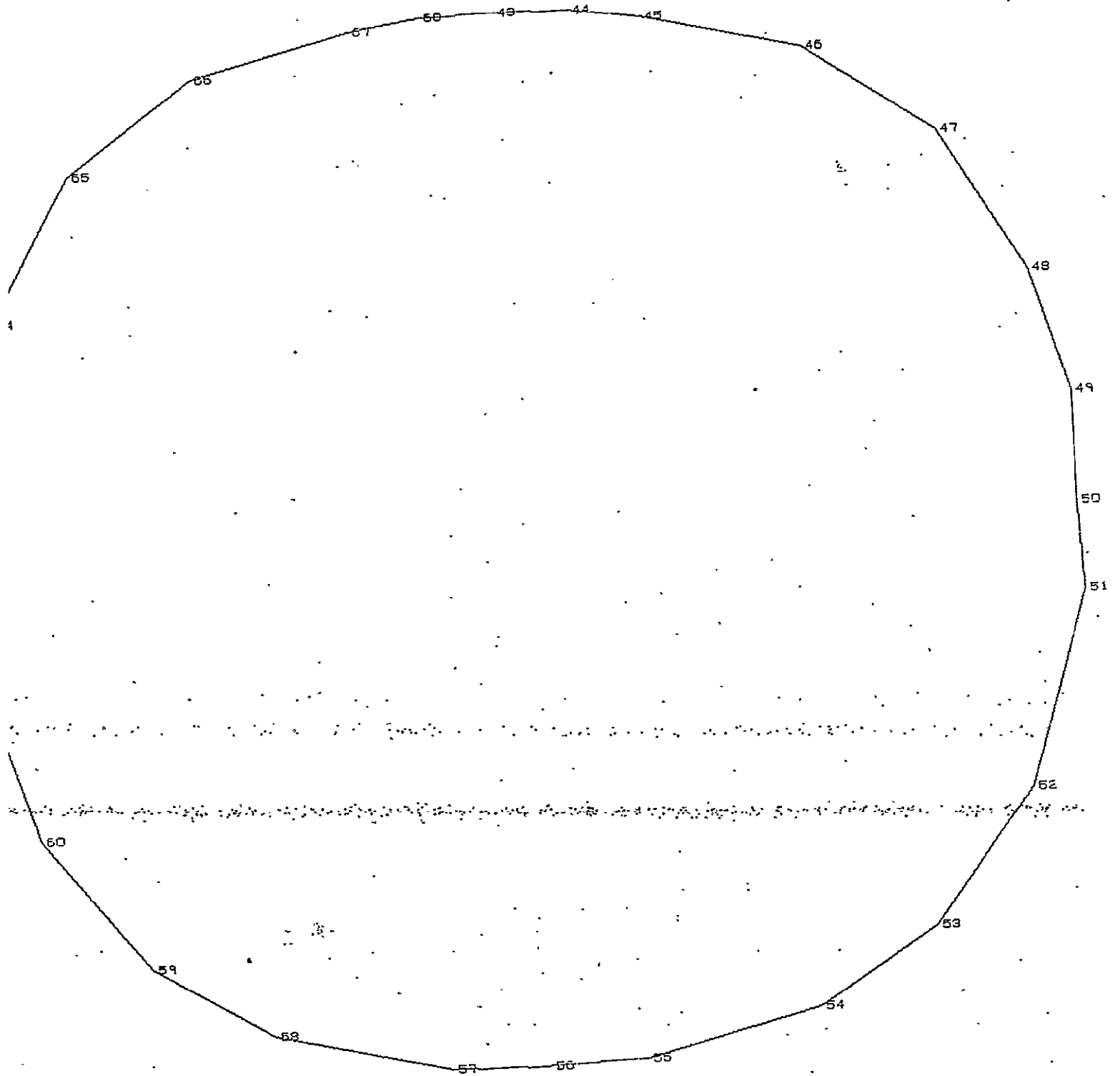


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EST FUSELAGE
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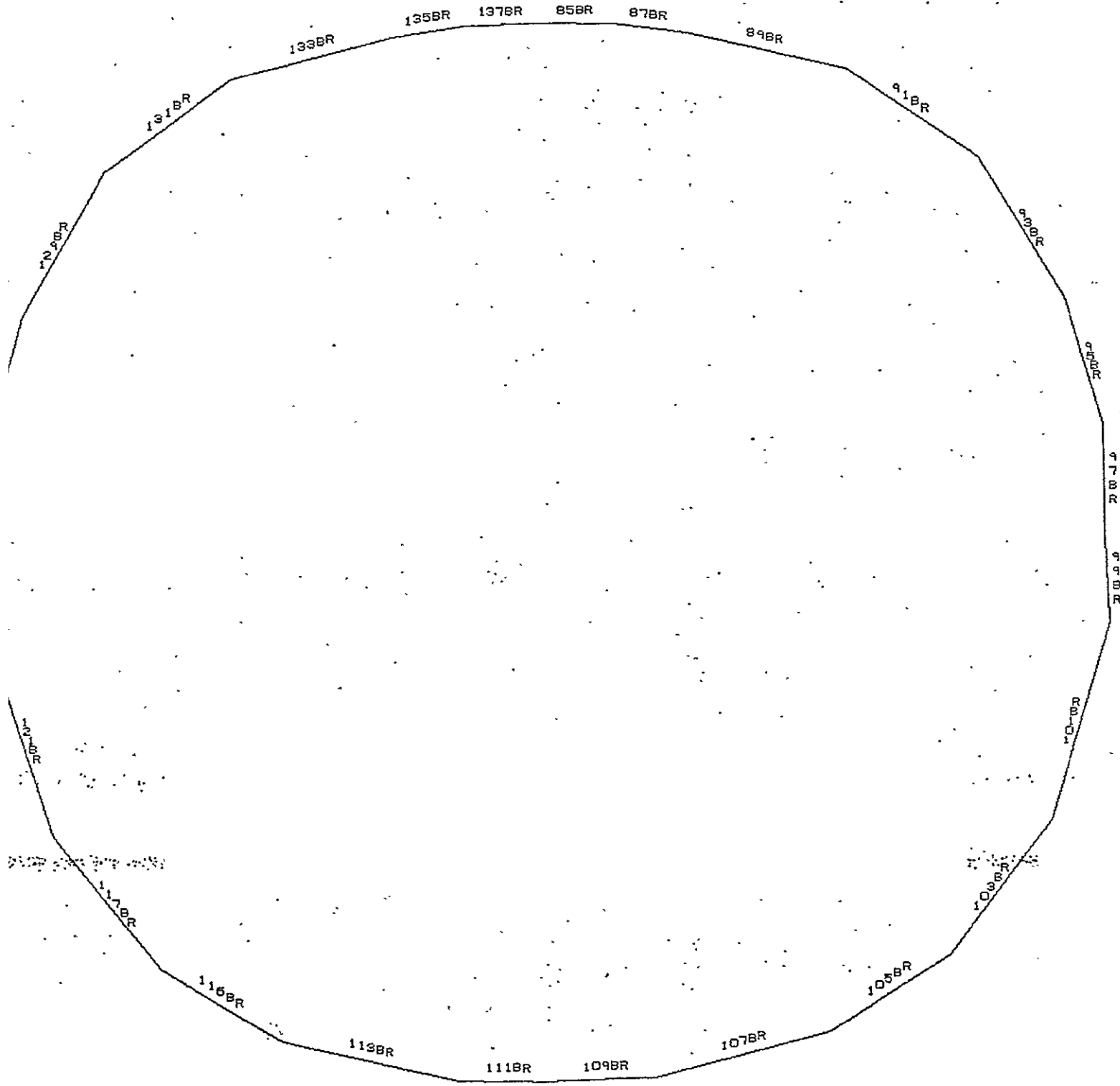
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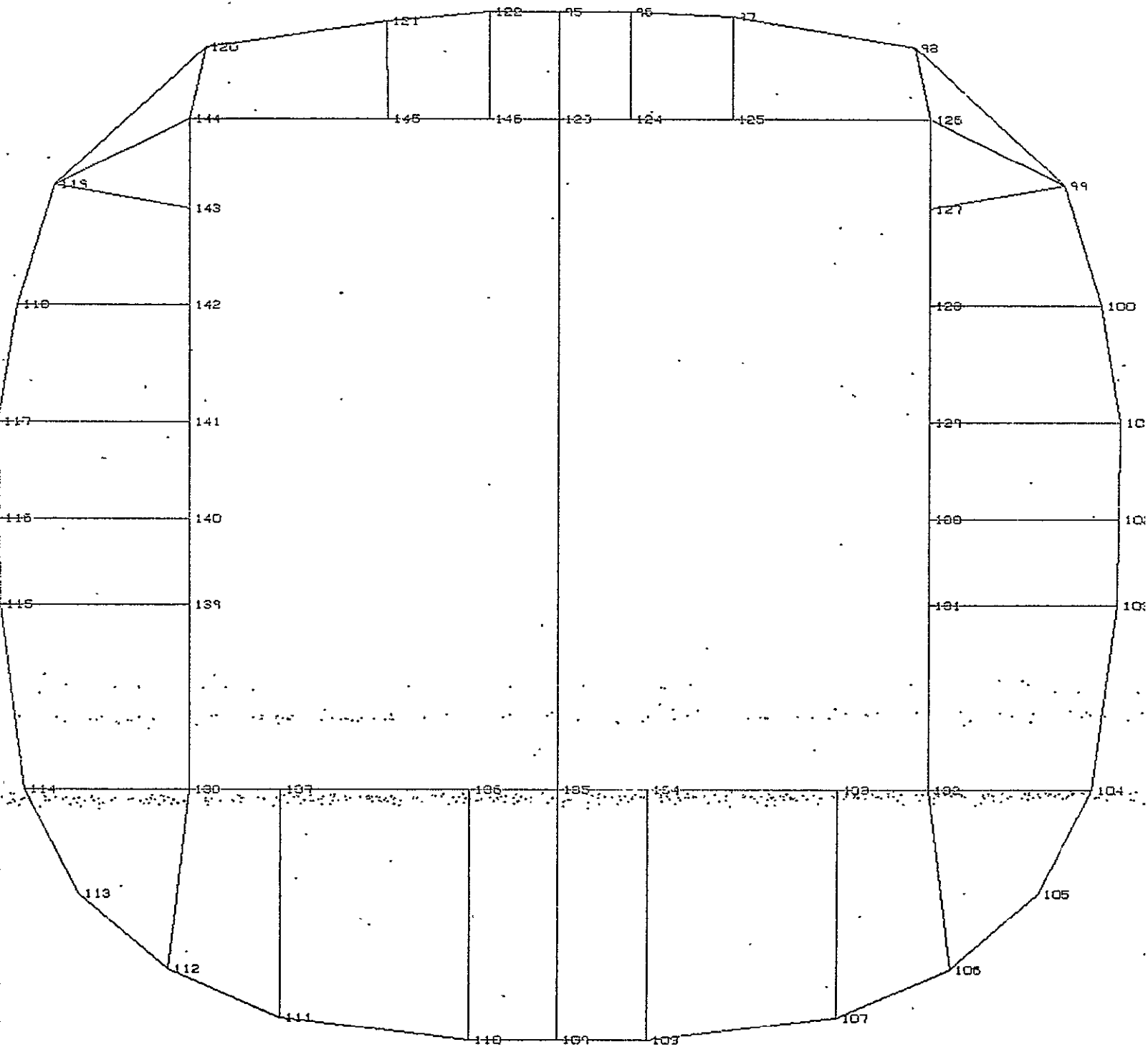
BEST FUSELAGE
DEFORMED SHAPE

Set 7

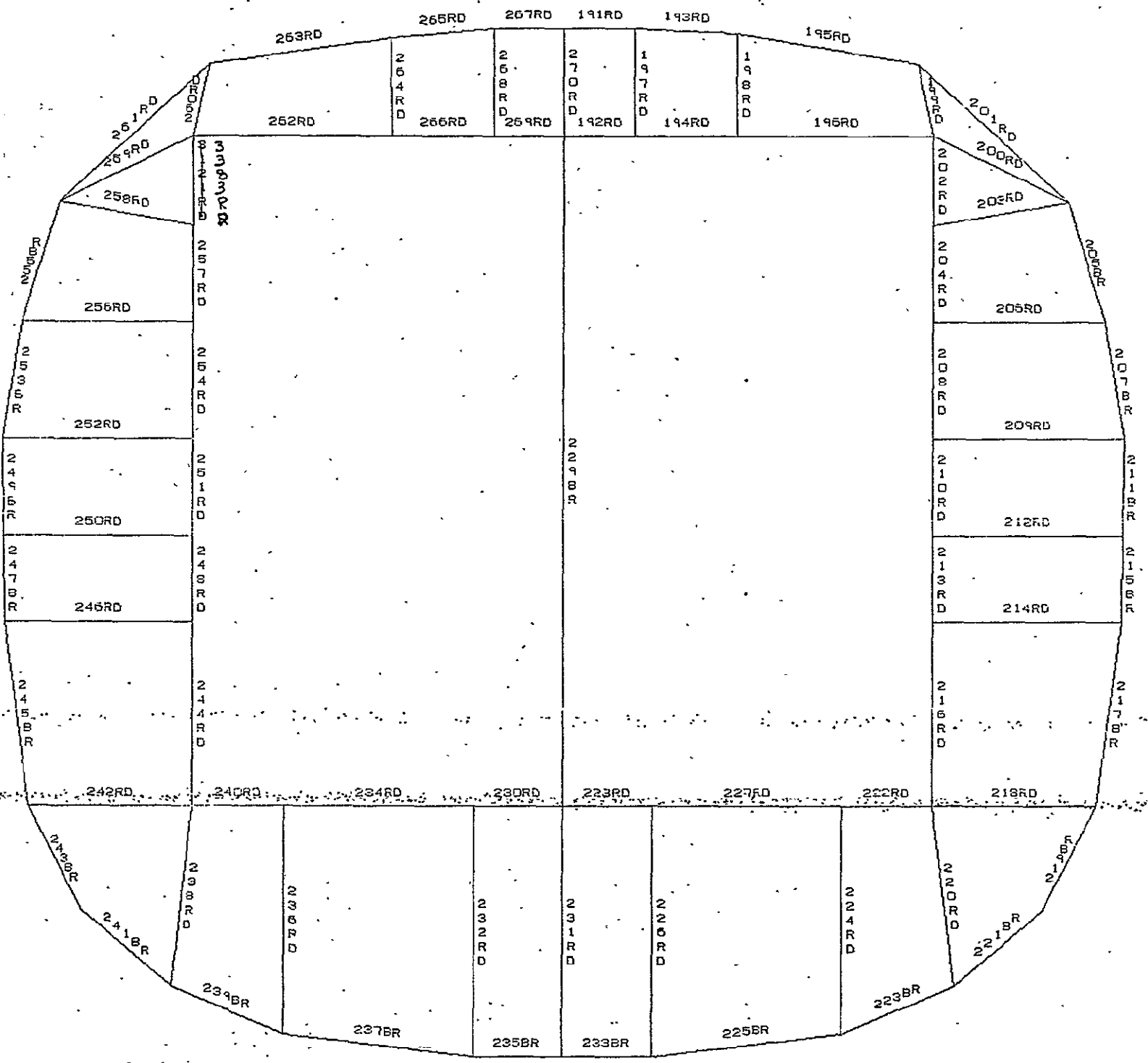


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DEFORMED SHAPE

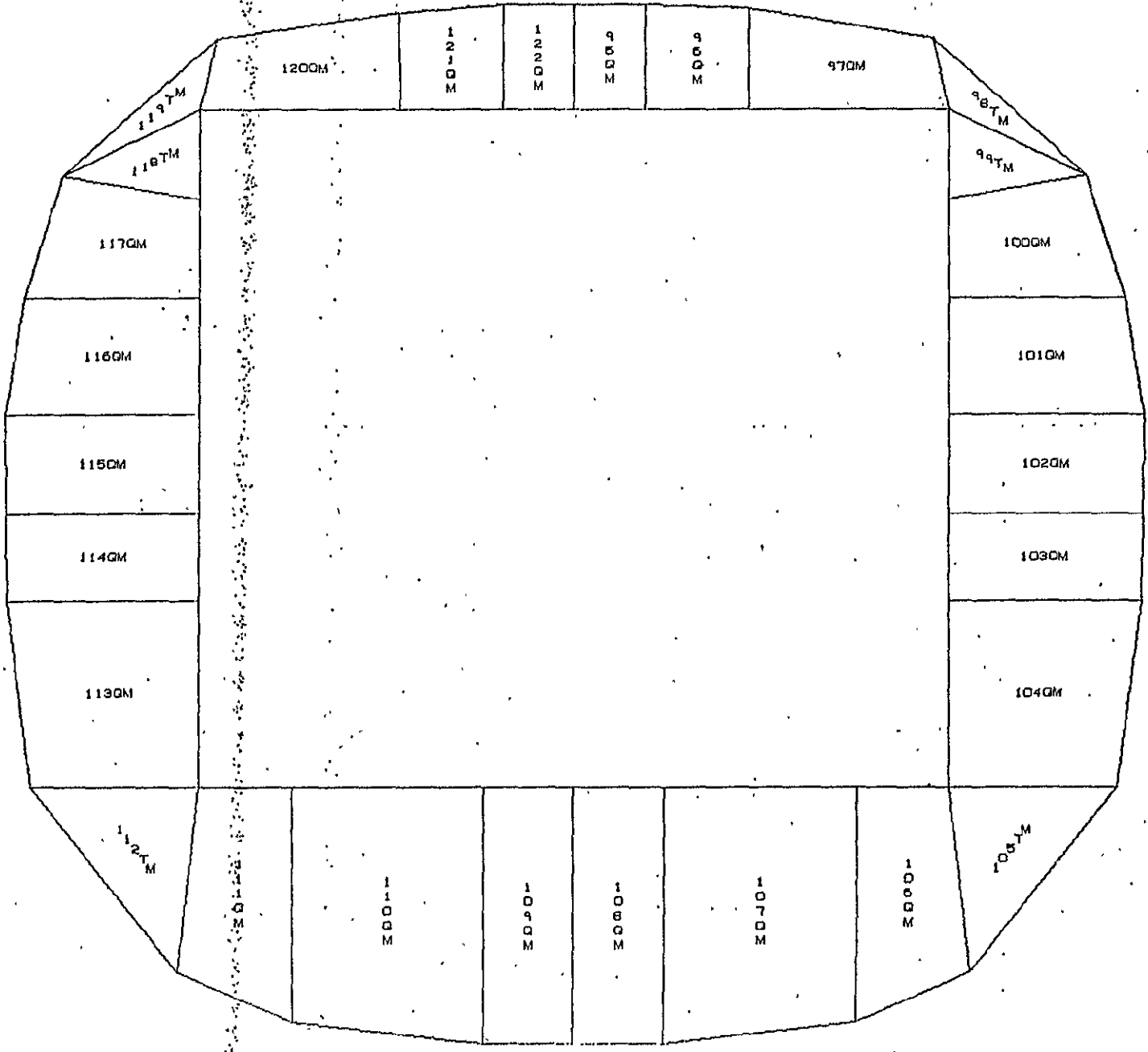
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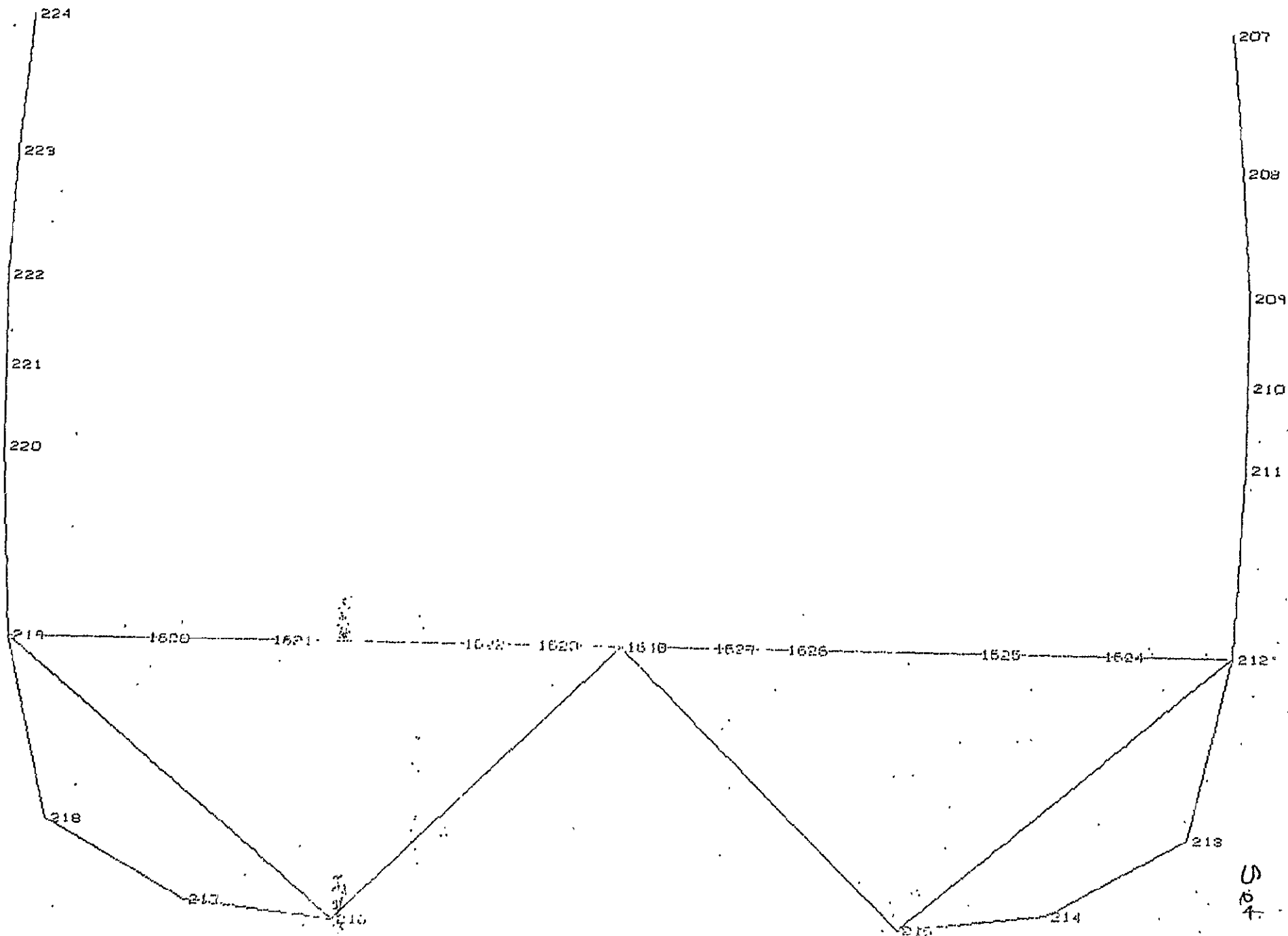
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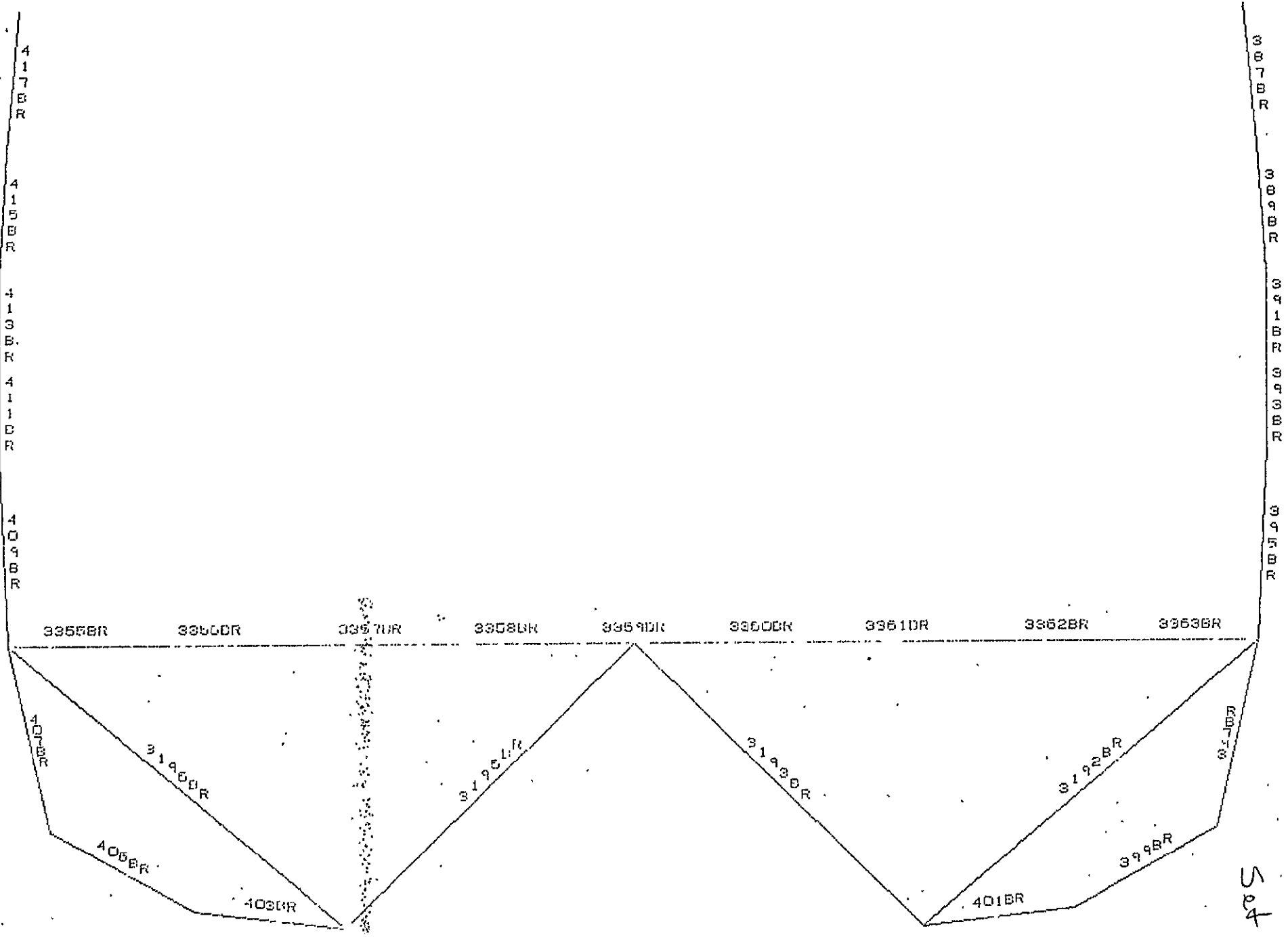
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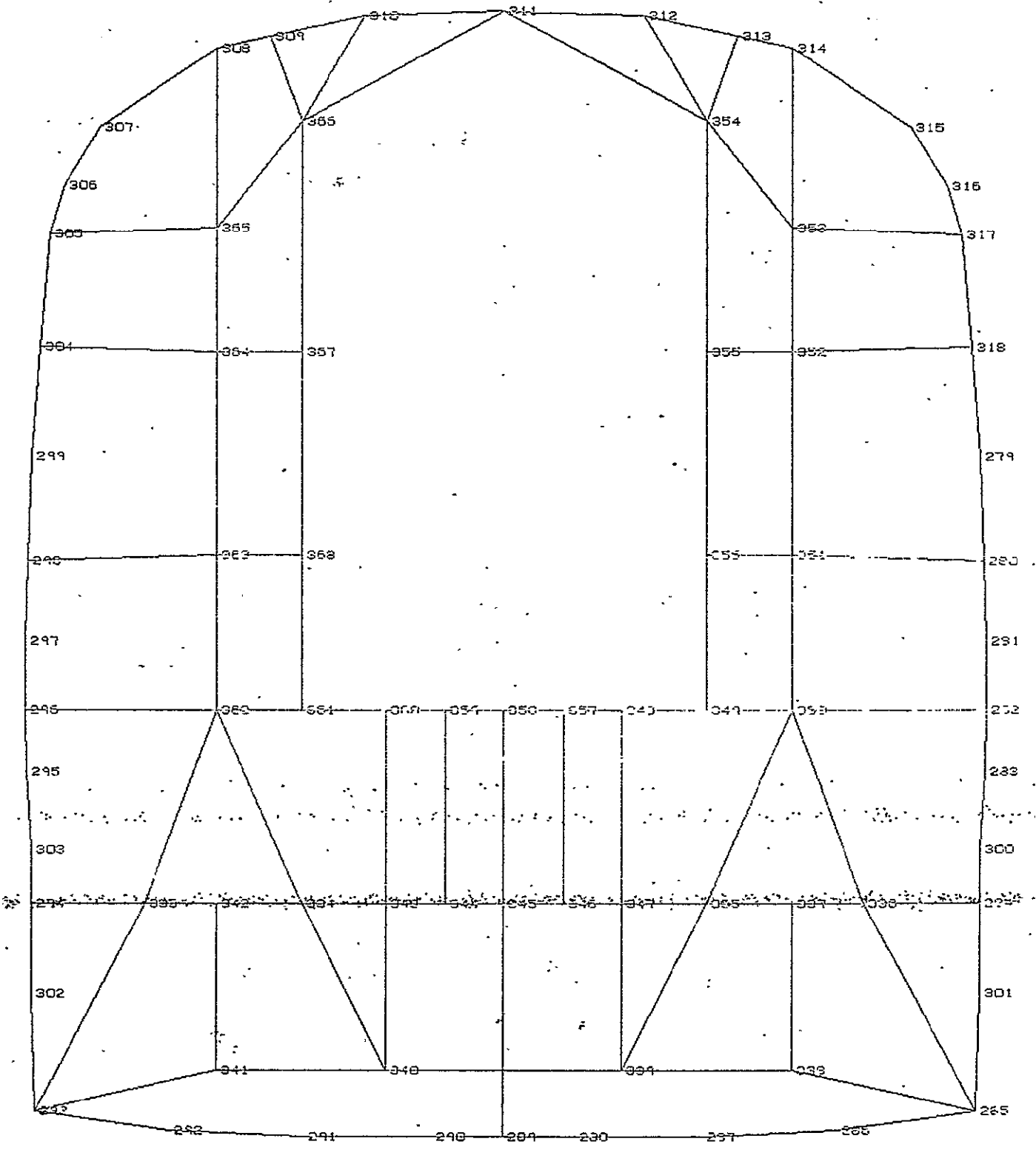


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6 of 9

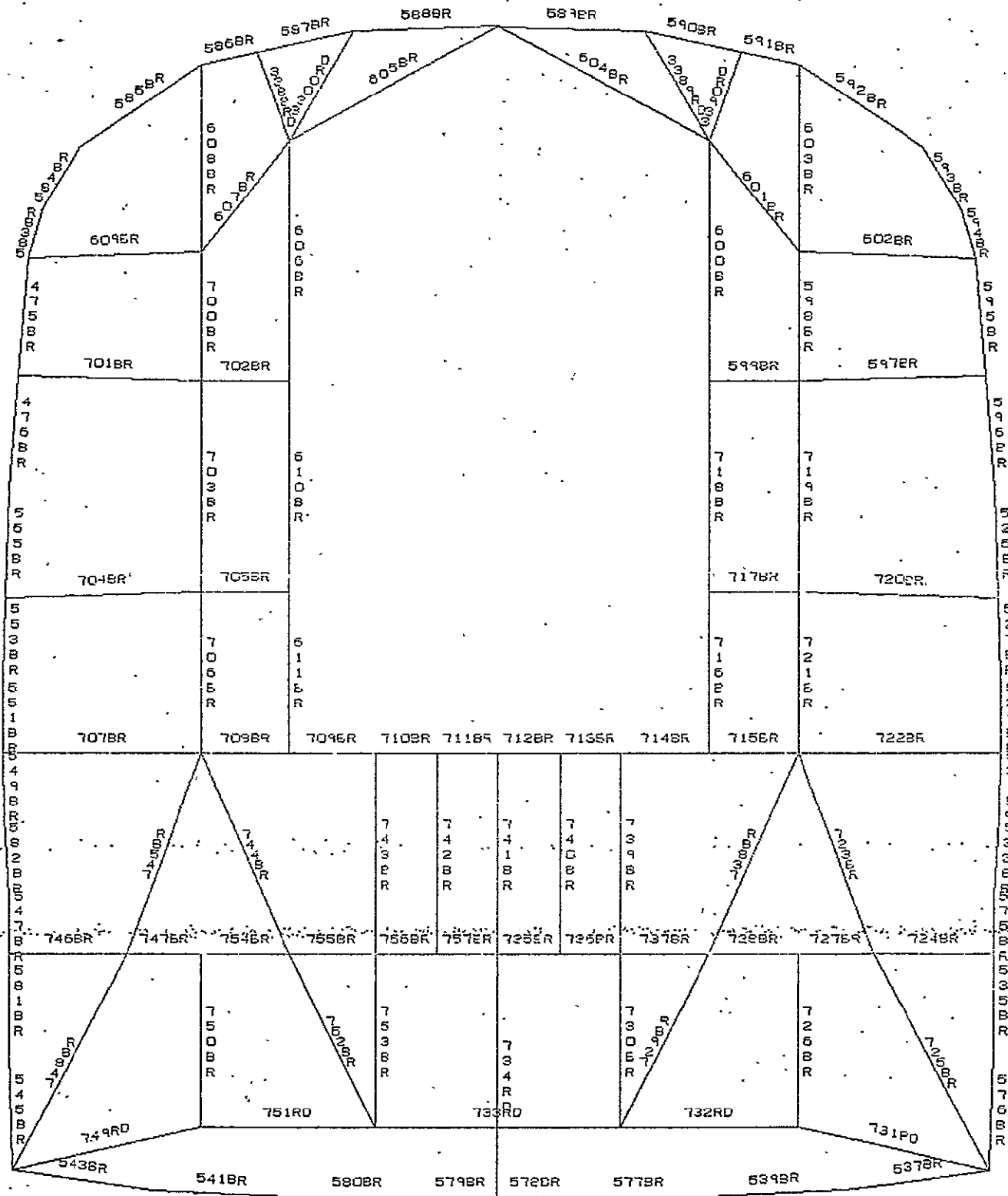
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TEST FUSELAGE
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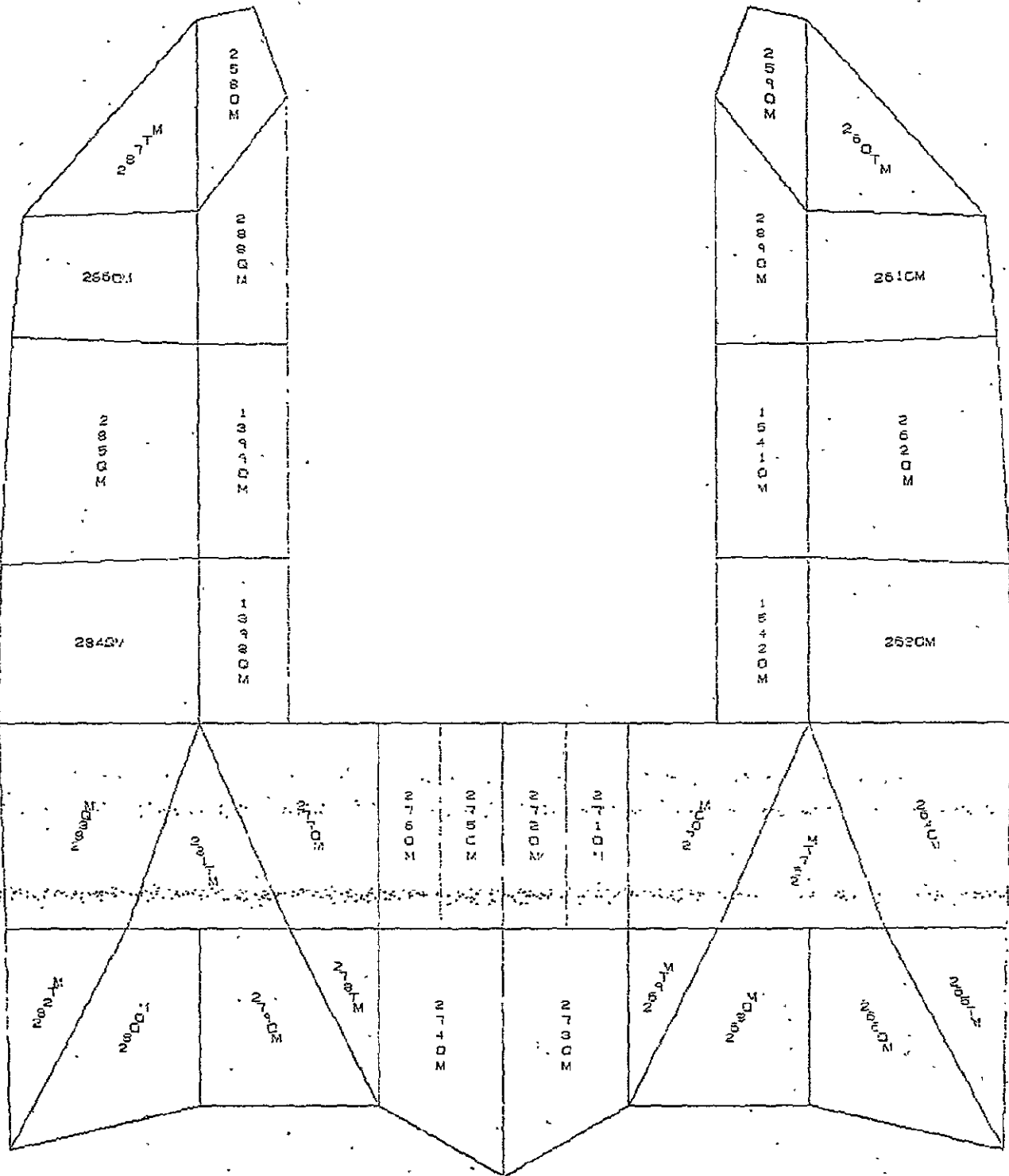
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Set 10



TEST FUSELAGE
UNDEFORMED SHAPE

Set 10



TEST FUSELAGE
UNREPAIRED STATE

SET 11

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307	403	448	492	534	576	617	657	707	744	780	817	858
308	404	447	493	535	577	618	658	708	745	781	818	859
309	405	448	494	536	578	619	659	709	746	782	819	860
310	406	449	495	537	579	620	660	710	747	783	820	861
311	407	450	496	538	580	621	661	711	748	784	821	862
312	408	451	497	539	581	622	662	712	749	785	822	863
313	409	452	498	540	582	623	663	713	750	786	823	864
314	410	453	499	541	583	624	664	714	751	787	824	865
315	411	454	500	542	584	625	665	715	752	788	825	866
316	412	455	501	543	585	626	666	716	753	789	826	867
317	413	456	502	544	586	627	667	717	754	790	827	868
318	414	457	503	545	587	628	668	718	755	791	828	869
319	415	458	504	546	588	629	669	719	756	792	829	870
320	416	459	505	547	589	630	670	720	757	793	830	871
321	417	460	506	548	590	631	671	721	758	794	831	872
322	418	461	507	549	591	632	672	722	759	795	832	873
323	419	462	508	550	592	633	673	723	760	796	833	874
324	420	463	509	551	593	634	674	724	761	797	834	875
325	421	464	510	552	594	635	675	725	762	798	835	876
326	422	465	511	553	595	636	676	726	763	799	836	877
327	423	466	512	554	596	637	677	727	764	800	837	878
328	424	467	513	555	597	638	678	728	765	801	838	879
329	425	468	514	556	598	639	679	729	766	802	839	880
330	426	469	515	557	599	640	680	730	767	803	840	881
331	427	470	516	558	600	641	681	731	768	804	841	882
332	428	471	517	559	601	642	682	732	769	805	842	883
333	429	472	518	560	602	643	683	733	770	806	843	884
334	430	473	519	561	603	644	684	734	771	807	844	885
335	431	474	520	562	604	645	685	735	772	808	845	886
336	432	475	521	563	605	646	686	736	773	809	846	887
337	433	476	522	564	606	647	687	737	774	810	847	888
338	434	477	523	565	607	648	688	738	775	811	848	889
339	435	478	524	566	608	649	689	739	776	812	849	890
340	436	479	525	567	609	650	690	740	777	813	850	891
341	437	480	526	568	610	651	691	741	778	814	851	892
342	438	481	527	569	611	652	692	742	779	815	852	893
343	439	482	528	570	612	653	693	743	780	816	853	894
344	440	483	529	571	613	654	694	744	781	817	854	895
345	441	484	530	572	614	655	695	745	782	818	855	896
346	442	485	531	573	615	656	696	746	783	819	856	897
347	443	486	532	574	616	657	697	747	784	820	857	898
348	444	487	533	575	617	658	698	748	785	821	858	899
349	445	488	534	576	618	659	699	749	786	822	859	900
350	446	489	535	577	619	660	700	750	787	823	860	901
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352	448	491	537	579	621	662	702	752	789	825	862	903
353	449	492	538	580	622	663	703	753	790	826	863	904
354	450	493	539	581	623	664	704	754	791	827	864	905
355	451	494	540	582	624	665	705	755	792	828	865	906
356	452	495	541	583	625	666	706	756	793	829	866	907
357	453	496	542	584	626	667	707	757	794	830	867	908
358	454	497	543	585	627	668	708	758	795	831	868	909
359	455	498	544	586	628	669	709	759	796	832	869	910
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362	458	501	547	589	631	672	712	762	799	835	872	913
363	459	502	548	590	632	673	713	763	800	836	873	914
364	460	503	549	591	633	674	714	764	801	837	874	915
365	461	504	550	592	634	675	715	765	802	838	875	916
366	462	505	551	593	635	676	716	766	803	839	876	917
367	463	506	552	594	636	677	717	767	804	840	877	918
368	464	507	553	595	637	678	718	768	805	841	878	919
369	465	508	554	596	638	679	719	769	806	842	879	920
370	466	509	555	597	639	680	720	770	807	843	880	921
371	467	510	556	598	640	681	721	771	808	844	881	922
372	468	511	557	599	641	682	722	772	809	845	882	923
373	469	512	558	600	642	683	723	773	810	846	883	924
374	470	513	559	601	643	684	724	774	811	847	884	925
375	471	514	560	602	644	685	725	775	812	848	885	926
376	472	515	561	603	645	686	726	776	813	849	886	927
377	473	516	562	604	646	687	727	777	814	850	887	928
378	474	517	563	605	647	688	728	778	815	851	888	929
379	475	518	564	606	648	689	729	779	816	852	889	930
380	476	519	565	607	649	690	730	780	817	853	890	931
381	477	520	566	608	650	691	731	781	818	854	891	932
382	478	521	567	609	651	692	732	782	819	855	892	933
383	479	522	568	610	652	693	733	783	820	856	893	934
384	480	523	569	611	653	694	734	784	821	857	894	935
385	481	524	570	612	654	695	735	785	822	858	895	936
386	482	525	571	613	655	696	736	786	823	859	896	937
387	483	526	572	614	656	697	737	787	824	860	897	938
388	484	527	573	615	657	698	738	788	825	861	898	939
389	485	528	574	616	658	699	739	789	826	862	899	940
390	486	529	575	617	659	700	740	790	827	863	900	941
391	487	530	576	618	660	701	741	791	828	864	901	942
392	488	531	577	619	661	702	742	792	829	865	902	943
393	489	532	578	620	662	703	743	793	830	866	903	944
394	490	533	579	621	663	704	744	794	831	867	904	945
395	491	534	580	622	664	705	745	795	832	868	905	946
396	492	535	581	623	665	706	746	796	833	869	906	947
397	493	536	582	624	666	707	747	797	834	870	907	948
398	494	537	583	625	667	708	748	798	835	871	908	949
399	495	538	584	626	668	709	749	799	836	872	909	950
400	496	539	585	627	669	710	750	800	837	873	910	951

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826RD	908RD	998RD	1078RD	1152RD	1238RD	1330RD	1406RD	1482RD	1554RD	1626RD	1704RD
828RD	910RD	1000RD	1080RD	1154RD	1240RD	1332RD	1408RD	1484RD	1556RD	1628RD	1705RD
830BR	912BR	1002BR	1082BR	1156BR	1242RD	1334RD	1410RD	1486RD	1558RD	1630RD	1706RD
832RD	914RD	1004RD	1084RD	1158RD	1244RD	1336RD	1412RD	1488RD	1560RD	1632RD	1708RD
834RD	916RD	1006RD	1086RD	1160RD	1246RD	1338RD	1414RD	1490RD	1562RD	1634RD	1710RD
836RD	918RD	1008RD	1088RD	1162RD	1248RD	1340RD	1416RD	1492RD	1564RD	1636RD	1712RD
838RD	920RD	1010RD	1090RD	1164RD	1250RD	1342RD	1418RD	1494RD	1566RD	1638RD	1714RD
840RD	922RD	1012RD	1092RD	1166RD	1252RD	1344RD	1420RD	1496RD	1568RD	1640RD	1716RD
842RD	924RD	1014RD	1094RD	1168RD	1254RD	1346RD	1422RD	1498RD	1570RD	1642RD	1718RD
844RD	926RD	1016RD	1096RD	1170RD	1256RD	1348RD	1424RD	1500RD	1572RD	1644RD	1720RD
846RD	928RD	1018RD	1098RD	1172RD	1258RD	1350RD	1426RD	1502RD	1574RD	1646RD	1722RD
848RD	930RD	1020RD	1100RD	1174RD	1260RD	1352RD	1428RD	1504RD	1576RD	1648RD	1724RD
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852RD	934RD	1024RD	1104RD	1178RD	1264RD	1356RD	1432RD	1508RD	1580RD	1652RD	1728RD
854RD	936RD	1026RD	1106RD	1180RD	1266RD	1358RD	1434RD	1510RD	1582RD	1654RD	1730RD
856RD	938RD	1028RD	1108RD	1182RD	1268RD	1360RD	1436RD	1512RD	1584RD	1656RD	1732RD
858RD	940RD	1030RD	1110RD	1184RD	1270RD	1362RD	1438RD	1514RD	1586RD	1658RD	1734RD
860RD	942RD	1032RD	1112RD	1186RD	1272RD	1364RD	1440RD	1516RD	1588RD	1660RD	1736RD
862RD	944RD	1034RD	1114RD	1188RD	1274RD	1366RD	1442RD	1518RD	1590RD	1662RD	1738RD
864RD	946RD	1036RD	1116RD	1190RD	1276RD	1368RD	1444RD	1520RD	1592RD	1664RD	1740RD
866RD	948RD	1038RD	1118RD	1192RD	1278RD	1370RD	1446RD	1522RD	1594RD	1666RD	1742RD
868RD	950RD	1040RD	1120RD	1194RD	1280RD	1372RD	1448RD	1524RD	1596RD	1668RD	1744RD
870RD	952RD	1042RD	1122RD	1196RD	1282RD	1374RD	1450RD	1526RD	1598RD	1670RD	1746RD
872RD	954RD	1044RD	1124RD	1198RD	1284RD	1376RD	1452RD	1528RD	1600RD	1672RD	1748RD
874RD	956RD	1046RD	1126RD	1200RD	1286RD	1378RD	1454RD	1530RD	1602RD	1674RD	1750RD
876RD	958RD	1048RD	1128RD	1202RD	1288RD	1380RD	1456RD	1532RD	1604RD	1676RD	1752RD
878RD	960RD	1050RD	1130RD	1204RD	1290RD	1382RD	1458RD	1534RD	1606RD	1678RD	1754RD
880RD	962RD	1052RD	1132RD	1206RD	1292RD	1384RD	1460RD	1536RD	1608RD	1680RD	1756RD
882RD	964RD	1054RD	1134RD	1208RD	1294RD	1386RD	1462RD	1538RD	1610RD	1682RD	1758RD
884RD	966RD	1056RD	1136RD	1210RD	1296RD	1388RD	1464RD	1540RD	1612RD	1684RD	1760RD
886RD	968RD	1058RD	1138RD	1212RD	1298RD	1390RD	1466RD	1542RD	1614RD	1686RD	1762RD
888RD	970RD	1060RD	1140RD	1214RD	1300RD	1392RD	1468RD	1544RD	1616RD	1688RD	1764RD
890RD	972RD	1062RD	1142RD	1216RD	1302RD	1394RD	1470RD	1546RD	1618RD	1690RD	1766RD
892RD	974RD	1064RD	1144RD	1218RD	1304RD	1396RD	1472RD	1548RD	1620RD	1692RD	1768RD
894RD	976RD	1066RD	1146RD	1220RD	1306RD	1398RD	1474RD	1550RD	1622RD	1694RD	1770RD
896RD	978RD	1068RD	1148RD	1222RD	1308RD	1400RD	1476RD	1552RD	1624RD	1696RD	1772RD
898RD	980RD	1070RD	1150RD	1224RD	1310RD	1402RD	1478RD	1554RD	1626RD	1698RD	1774RD
900RD	982RD	1072RD	1152RD	1226RD	1312RD	1404RD	1480RD	1556RD	1628RD	1700RD	1776RD

Set 11

3220M	3610M	4020M	4430M	4770M	5170M	5610M	5970M	6330M	6690M	7030M	7410M
3230M	3620M	4030M	4040M	4780M	5180M	5620M	5980M	6340M	6700M	7040M	7420M
3240M	3630M	3640M	3650M	3660M	4050M						
3660M				4060M	4790M	5190M	5630M	5990M	6350M	6710M	7430M
3670M				4070M	4440M	4800M	5000M	5640M	6000M	6360M	6720M
3680M				4080M	4450M	4810M	5010M	5650M	6010M	6370M	6730M
3690M	3260M	3690M	4090M								
3700M	3270M	3700M	4100M	4460M	4820M	5220M	5660M	6020M	6380M	6740M	7090M
3710M	3300M	3710M	4110M	4470M	4830M	5230M	5670M	6030M	6390M	6750M	7090M

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015	079	412	460		501	541	502	624	673	713	750	706	824	
016	074	410	451		502	542	503	625	674					
017	075	414	462		503	543	504	626	675	714	751	707	825	
		1704	415	463	1706	544	505	627	1710	1712	715	752	700	1714
258	078	416			504	544		619	678	114			028	126
		1705	417	464	1707	545	506	620	1711					
274	077	410	465		505	546	507	621	679				028	127
258	070	419	466		506	546	508	628	671				028	130
		1713								716	753	709	1715	
201	074	420	467		507	547	509	631	677	717	754	710	832	
072	008	421	468		508	548	510	632	688	718	755	711	833	
	321	422										712	834	
283			469		509	549	511	633	681	719	756	712		
					510								835	
007	002	423	470		511	550	551	592	634	720	757	713	835	
298						550	551	590	607	636	609	721	758	714
001	003	424	471		512	552	553	591	607	636	684		836	
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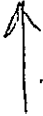
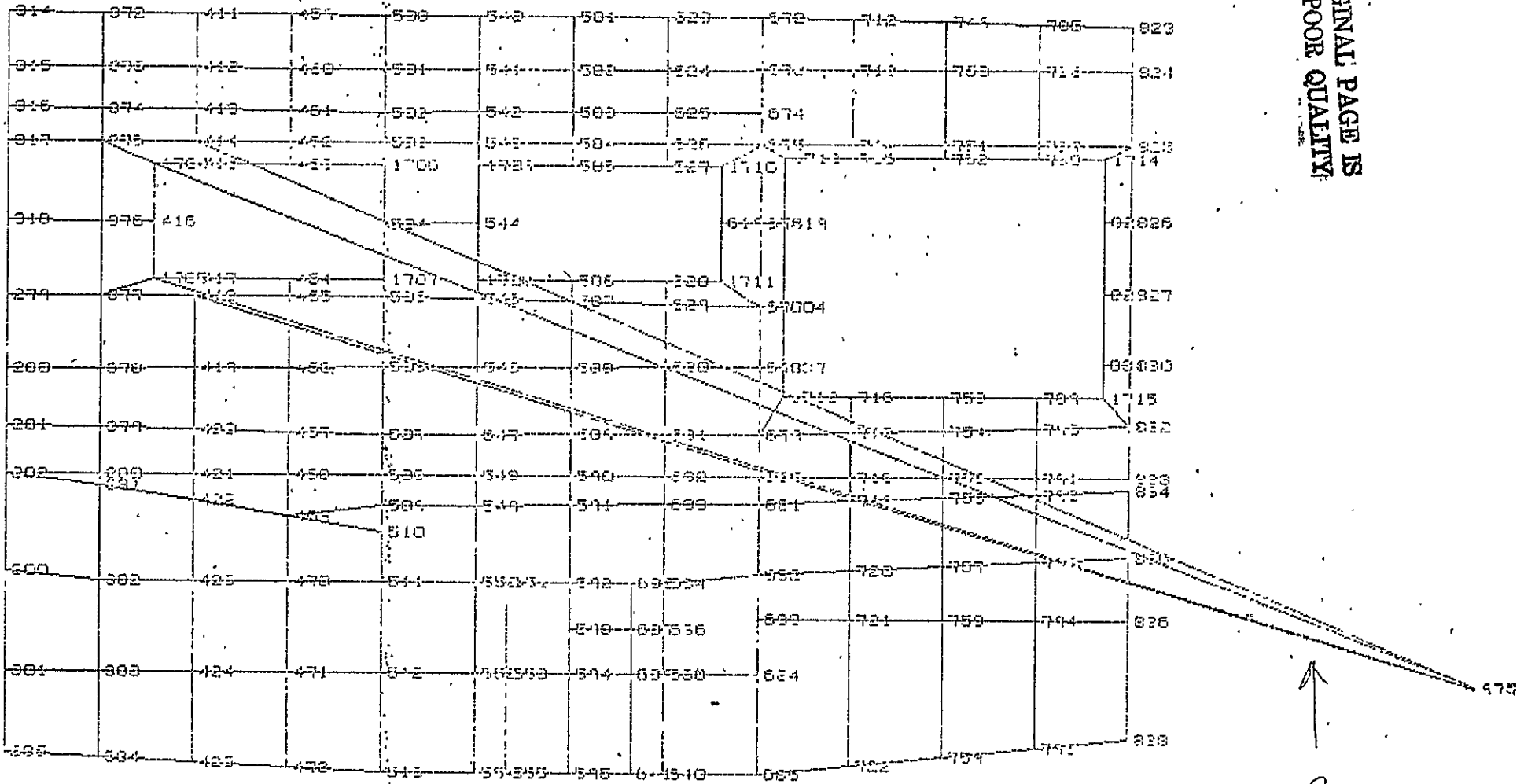
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768RD	844RD	936RD	1007RD	1094RD	1170RD	1252RD	1334RD	1422RD	1496RD	1568RD	1660RD
770BR	850BR	938BR	1014BR	1096BR	1172BR	1254BR	1336BR	1424BR	1498BR	1570BR	1662BR
772RD	852RD	940BR	1016BR	1098RD	1174BR	1256BR	1338RD	1426RD	1500BR	1572BR	1664RD
774BR	854BR	942BR	1018BR	1100BR	1176BR	1258BR	1340RD	1428RD	1502BR	1574RD	1666RD
776RD	856RD	944BR	1020RD	1102RD	1178RD	1260RD	1342RD	1430RD	1504BR	1576RD	1668RD
778RD	858RD	946BR	1022RD	1104RD	1180RD	1262RD	1344RD	1432RD	1506BR	1578RD	1670RD
780BR	860RD	948BR	1024RD	1106RD	1182RD	1264RD	1346RD	1434RD	1508BR	1580RD	1672RD
782BR	862BR	950RD	1026RD	1108RD	1184RD	1266RD	1348RD	1436RD	1510RD	1582RD	1674RD
784RD	864RD	952BR	1028RD	1110RD	1186RD	1268RD	1350RD	1438RD	1512BR	1584BR	1676RD
786RD	866RD	954RD	1030RD	1112RD	1188RD	1270RD	1352RD	1440RD	1514RD	1586RD	1678RD
788BR	868BR	956BR	1032BR	1114BR	1190RD	1272RD	1354RD	1442BR	1516BR	1588BR	1680RD

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2930M	3290M	3700M	4100M	4460M	4870M	5220M	5600M	6020M	6320M	6740M	7030M
2940M	3300M	3710M	4110M	4470M	4880M	5230M	5670M	6030M	6390M	6750M	7090M
2950M	3310M	3720M	4120M	4480M	4890M	5240M	5680M				
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2980M	3340M	3750M	4150M	4510M	4920M	5270M	5710M				
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3000M	3360M	3770M	4170M	4530M	4940M	5290M	5730M	6120M	6420M	6780M	7270M
3010M	3370M	3780M	4180M	4540M	4950M	5300M	5740M	6130M	6430M	6790M	7280M
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3030M	3390M	3800M	4200M	4560M	4970M	5320M	5760M	6150M	6450M	6810M	7300M
3040M	3400M	3810M	4210M	4570M	4980M	5330M	5770M	6160M	6460M	6820M	7310M
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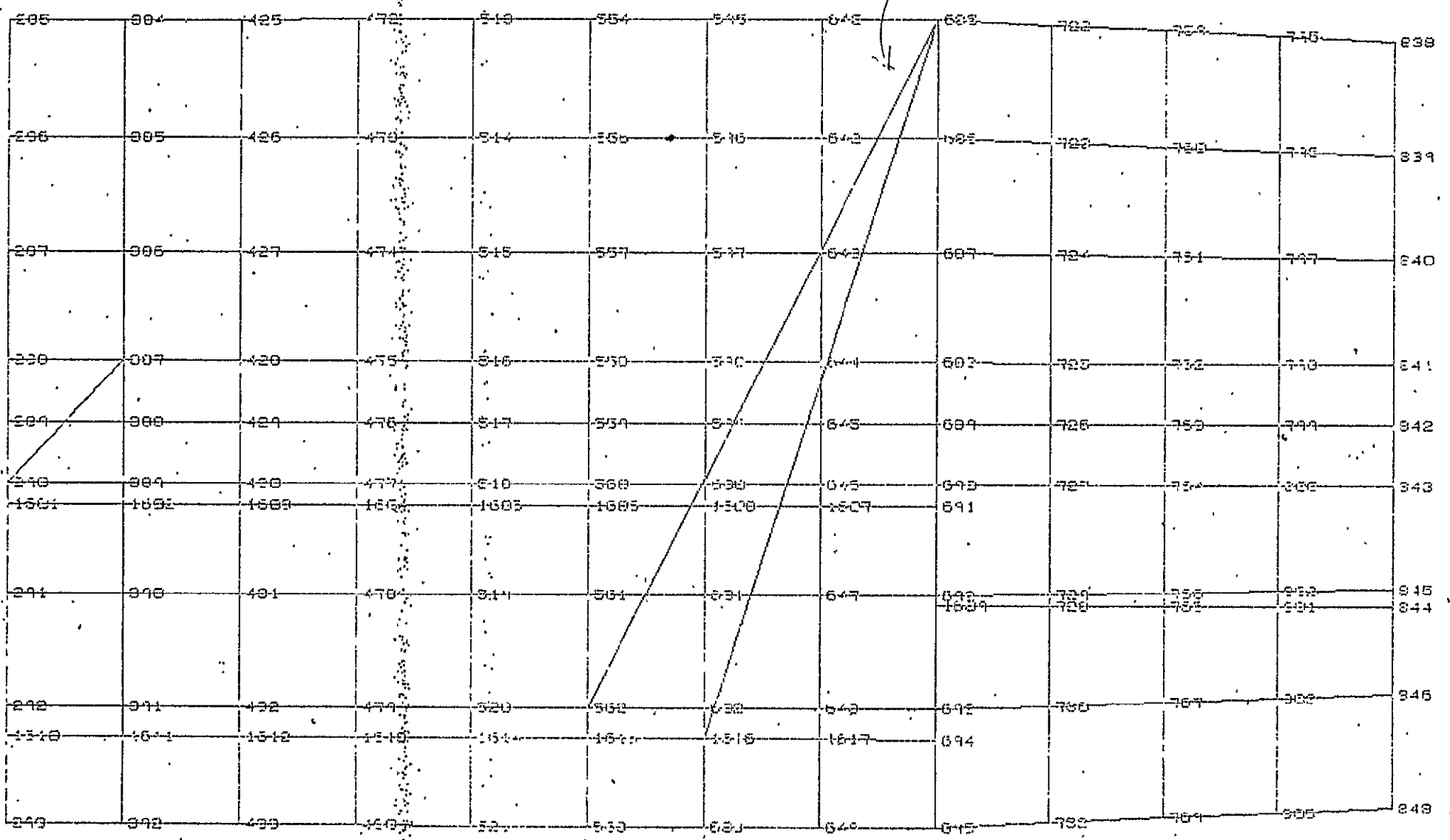
Set 13

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207	306	427	474	515	557	597	643	687	724	761	797	840	840
208	307	428	475	516	558	598	644	688	725	762	798	841	841
209	308	429	476	517	559	599	645	689	726	763	799	842	842
210	309	430	477	518	560	600	646	690	727	764	800	843	843
1601	1602	1603	1604	1605	1605	1606	1607	691					
291	390	431	478	519	561	601	647	692	728	765	802	845	845
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292	391	432	479	520	562	602	648	693	730	767	803	846	846
1610	1611	1612	1613	1614	1615	1616	1617	694					
293	392	433	480	521	563564	603	650649	695	732	769	805	848	848

788BR	858BR	958BR	1036BR	1114BR	1192BR	1284BR	1366BR	1442BR	1512BR	1584BR	1662BR	1124RD
J 790RD	J 870RD	J 960RD	J 1038RD	J 1116RD	J 1196RD	J 1284RD	J 1366RD	J 1444RD	J 1514RD	J 1586RD	J 1664RD	J 1124RD
J 792RD	J 872RD	J 962RD	J 1040RD	J 1118RD	J 1198RD	J 1286RD	J 1368RD	J 1446RD	J 1516RD	J 1588RD	J 1666RD	J 1126RD
J 794BR	J 874BR	J 964BR	J 1042BR	J 1120BR	J 1200BR	J 1288BR	J 1370BR	J 1448BR	J 1518BR	J 1590BR	J 1668BR	J 1128RD
J 796RD	J 876RD	J 966RD	J 1044RD	J 1122RD	J 1202RD	J 1290RD	J 1372RD	J 1450RD	J 1520RD	J 1592RD	J 1670RD	J 1130RD
J 798BR	J 878BR	J 968BR	J 1046BR	J 1124BR	J 1204BR	J 1292BR	J 1374BR	J 1452BR	J 1522BR	J 1594BR	J 1672BR	J 1132RD
J 800RD	J 880RD	J 970RD	J 1048RD	J 1126RD	J 1206RD	J 1294RD	J 1376RD	J 1454BR	J 1524BR	J 1596RD	J 1674RD	J 1134RD
J 802RD	J 882RD	J 972RD	J 1050RD	J 1128RD	J 1208RD	J 1296RD	J 1378RD	J 1458RD	J 1528RD	J 1600RD	J 1678RD	J 1136RD
J 804BR	J 884BR	J 974BR	J 1052BR	J 1130BR	J 1210BR	J 1298BR	J 1380BR	J 1462BR	J 1532BR	J 1604BR	J 1682BR	J 1138RD

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800		447			577	610	650	708	745	781	818	859	
807	400	446	408	534	575	617	657	707	744	780	817	858	
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801	358	399	400	524	567	607	646	698	734	771	807	850	
800													
801	357	398	400	524	567	607	646	698	734	771	807	850	
800													
801	356	397	400	524	567	607	646	698	734	771	807	850	
800													
801	355	396	400	524	567	607	646	698	734	771	807	850	
800													
801	354	395	400	524	567	607	646	698	734	771	807	850	
800													
801	353	394	400	524	567	607	646	698	734	771	807	850	
800													
801	352	393	400	524	567	607	646	698	734	771	807	850	
800													
801	351	392	400	524	567	607	646	698	734	771	807	850	
800													
801	350	391	400	524	567	607	646	698	734	771	807	850	
800													
801	349	390	400	524	567	607	646	698	734	771	807	850	
800													
801	348	389	400	524	567	607	646	698	734	771	807	850	
800													
801	347	388	400	524	567	607	646	698	734	771	807	850	
800													
801	346	387	400	524	567	607	646	698	734	771	807	850	
800													
801	345	386	400	524	567	607	646	698	734	771	807	850	
800													
801	344	385	400	524	567	607	646	698	734	771	807	850	
800													
801	343	384	400	524	567	607	646	698	734	771	807	850	
800													
801	342	383	400	524	567	607	646	698	734	771	807	850	
800													
801	341	382	400	524	567	607	646						

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826RD	910RD	1000RD	1080RD	1154RD	1240RD	1302RD	1408RD	1484RD	1500RD	1620RD	1700RD
826RD	908RD	998RD	1079RD	1152RD	1238RD	1300RD	1406RD	1482RD	1564RD	1626RD	1704RD
824RD	906RD	996RD	1077RD	1150RD	1236RD	1298RD	1404RD				
822BR	904RD	994BR	1074BR	1148BR	1234BR	1300BR	1402BR	1480BR	1502BR	1624BR	1702BR
	902BR	992BR	1070BR		1232BR	1302BR	1400BR		1500BR	1622BR	1700BR
820RD	902RD			1146RD			1398BR	1478RD			1698RD
818BR	898BR	990BR	1069BR	1144BR	1230BR	1304RD	1396BR	1476BR	1548RD	1620BR	1696BR
	896BR	988BR	1067BR		1228BR	1302BR	1394BR		1546BR	1618BR	1694BR
816RD	896RD	986RD	1065RD	1142RD	1226RD		1392RD	1474RD	1544RD	1616RD	1694RD
814RD	894RD	984RD	1064RD	1140RD	1224RD	1318RD	1390RD	1472RD	1542RD	1614RD	1692RD
812RD	892RD	982RD	1062RD	1138RD	1222RD	1316RD	1388RD	1470RD	1540RD	1612RD	1690RD
	890BR	980BR	1060RD	1136RD	1220RD	1314RD	1386RD	1468RD	1538RD	1610RD	1688RD
808RD	888RD	978RD	1058RD	1134RD	1218RD	1312RD	1384RD	1466RD	1536RD	1608RD	1686RD
806RD	886RD	976RD	1054RD	1132RD	1216RD	1310RD	1382RD	1464RD	1534RD	1606RD	1684RD
804RD	884BR	974BR	1052BR	1130BR	1214BR	1308BR	1380BR	1462BR	1532BR	1604BR	1682BR

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858	437	448	438	557	570	623	659	769	743	708	628	850
859	437	447	438	558	577	618	656	762	743	701	615	859
867	433	446	432	531	576	617	657	767	744	788	617	855
858	432	445	431	510	575	616	658	765				
865	431	444	436	522	574	615	655	765	748	779	615	857
	1716	443	439	1718	1720	614	654	1722	742	770	615	1724
864	433	442		531	573		653	767	741		614	856
	2											
844	446	441	428	1719	1721	629	652	1723	746	777	613	1725
	446	440	437	530	572	612	651	765	739	776	613	855
846	448	451	435	529	572	611	650	762	738	775	611	854
847	447	450	434	528	571	610	649	761	737	774	610	853
845	445	437	431	527	570	609	648	760	736	773	609	852
	445	436	430	526	569	608	647	759	735	772	608	851
				525								
863	444	435	429	524	567	607	646	758	734	771	607	850
862	443	434	428	523	566	606	645	757	733	770	606	849
843	442	433	427	521	564	604	643	755	732	769	605	848

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3220M	3620M	4020M	4420M	4720M	5120M	5520M	5920M	6320M	6700M	7040M	7420M
3220M	3610M	4020M	4430M	4770M	5170M	5610M	5970M	6330M	6590M	7030M	7410M
3210M	3600M	4010M	4420M	4760M	5160M	5600M	5960M	6320M	6600M	7020M	7400M
3200M	3590M	3990M	4410M	4750M	5150M	5590M	5950M				
3190M	3570M	3980M	4390M	4740M	5130M	5580M	5930M	6310M	6670M	7010M	7390M
3180M	1515			4730M				6300M			
	3580M	3970M	4400M		5140M	5570M	5940M		6630M	7000M	7380M
3170M	3560M	3960M	4380M	4720M	5130M	5560M	5920M	6290M	6650M	6990M	7370M
3160M	3550M	3950M	4370M	4710M	5110M	5550M	5910M	6280M	6640M	6980M	7360M
3150M	3540M	3940M	4360M	4700M	5100M	5540M	5900M	6270M	6630M	6970M	7350M
3140M	3530M	3930M	4350M	4690M	5090M	5530M	5890M	6260M	6620M	6960M	7340M
3130M	3520M	3920M	4340M	4680M	5080M	5520M	5880M	6250M	6610M	6950M	7330M
3120M	3510M	3910M	4330M	4670M	5070M	5510M	5870M	6240M	6600M	6940M	7320M
3120M	3500M	3900M	4320M	4660M	5060M	5500M	5860M	6230M	6590M	6930M	7310M

009	029	019	055	092	1071	1111	1144	1189	1225	1259
059	090	020	057	093	1072	1112	1145	1190	1235	1260
060	091	021	058	094	1073	1113	1145	1191	1237	1261
				095	1075	1114	1147	1192	1238	1262
021	051	072	022	059	1074	1115	1145	1157	1193	1229
				060	1040	1075	1110	1158	1194	1230
022	052	073	023	051	1071	1076	1117	1159	1195	1231
023	053	074	024	052	1072	1077	1118	1160	1196	1232
024	054	075	025	053	1073	1078	1119	1161	1197	1233
				073	1053					
					1044					

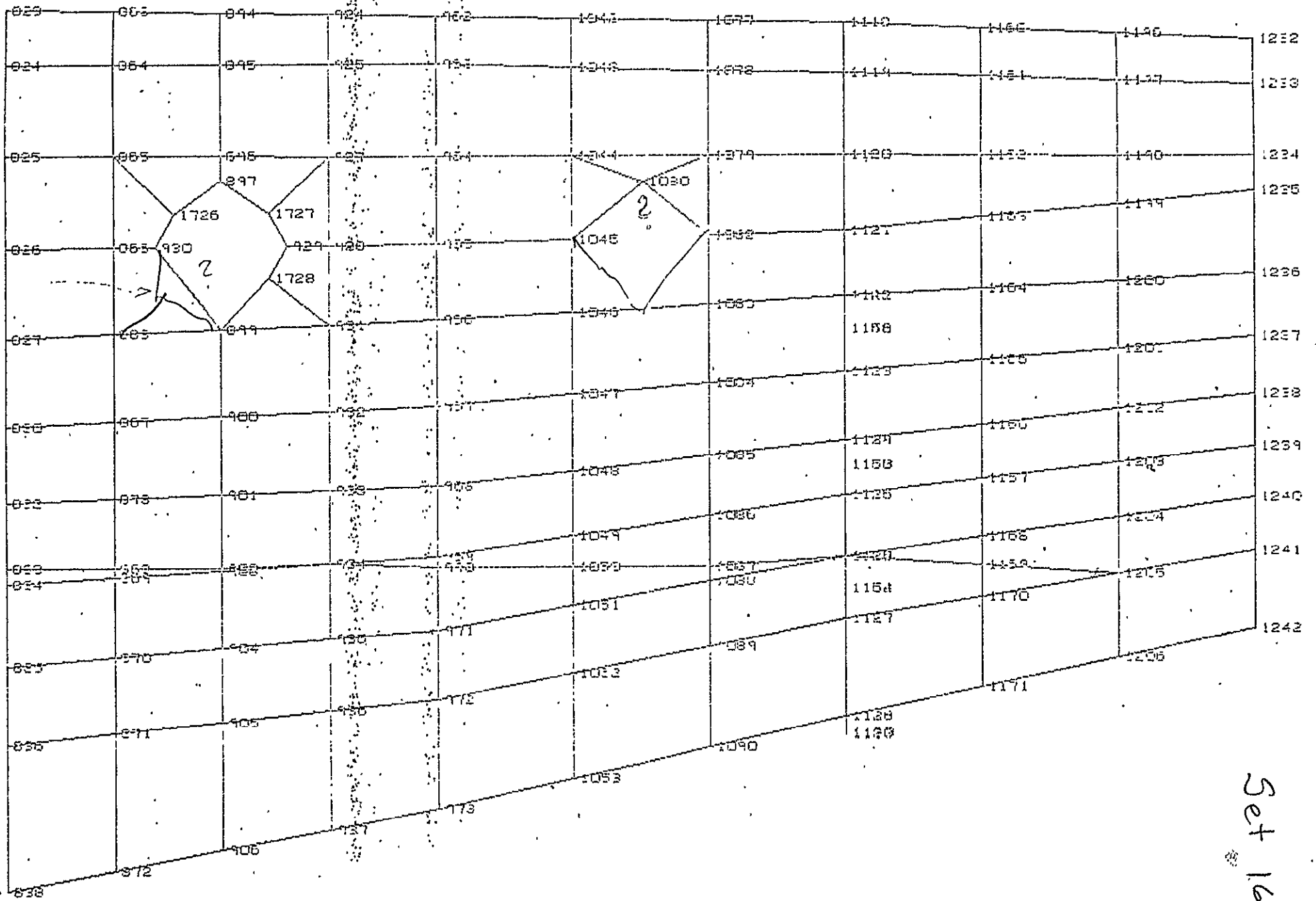
773QM	801QM	830QM	867QM	950QM	988QM	1024QM	1072QM	1103QM	1143QM
774QM	802QM	831QM	868QM	951QM	989QM	1025QM	1073QM	1109QM	1144QM
775QM	803QM	832QM	869QM	870QM	952QM	990QM	1026QM	1074QM	1110QM
				871QM	953QM	991QM	1027QM	1075QM	1111QM
776QM	804QM	833QM	870QM	872QM	954QM	992QM	1028QM	1076QM	1112QM
				873QM	955QM	993QM	1029QM	1077QM	1113QM
777QM	805QM	834QM	871QM	874QM	956QM	994QM	1030QM	1078QM	1114QM
				875QM	957QM	995QM	1031QM	1079QM	1115QM
746QM	778QM	806QM	835QM	876QM	958QM	996QM	1032QM	1080QM	1116QM
747QM	779QM	807QM	836QM	877QM					

023	062	094	124	162	1012	1077	1112	1160	1196	1232
024	064	095	125	163	1013	1078	1113	1161	1197	1233
025	065	096	127	164	1014	1079	1120	1162	1198	1234
		1726	1727		1734	1081			1199	1235
026	066	097	128	165	1015	1082	1121	1163		1236
		1728	1729		1733	1083			1200	1237
027	068	099	131	166	1016	1084	1122	1164		1238
		1725	1726		1732	1085			1201	1239
030	067	100	132	167	1017	1086	1123	1165		1240
		1724	1725		1731	1087			1202	1241
032	078	101	133	168	1018	1088	1124	1166		1242
		1723	1724		1730	1089			1203	
033	069	102	134	169	1019	1089	1125	1167		1243
034	067	103	135	170	1020	1090	1126	1168		1244
		1722	1723		1729	1091			1204	1245
035	070	104	136	171	1021	1092	1127	1169		1246
		1721	1722		1728	1093			1205	1247
036	071	105	137	172	1022	1094	1128	1170		1248
		1720	1721		1727	1095			1206	1249
038	072	106	138	173	1023	1096	1129	1171		1250
		1719	1720		1726	1097			1207	1251

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1 1712RD	1 1774RD	1 1834RD	1 1894RD	1 1978RD	1 2136RD	2 2214RD	2 2284RD	2 2366RD	2 2428RD
1714RD	1776RD	1836RD	1896RD	1980RD	2136RD	2216RD	2286RD	2368RD	2430RD
1716RD	1778RD	1838RD	1898RD	1982RD	2138RD	2218RD	2288RD	2370RD	2432RD
1718RD	1780RD	1840RD	1900RD	1984RD	2140RD	2220RD	2290RD	2372RD	2434RD
1720RD	1782RD	1842RD	1902RD	1986RD	2142RD	2222RD	2292RD	2374RD	2436RD
1722RD	1784RD	1844RD	1904RD	1988RD	2144RD	2224RD	2294RD	2376RD	2438RD
1724RD	1786RD	1846RD	1906RD	1990RD	2146RD	2226RD	2296RD	2378RD	2440RD
1726RD	1788RD	1848RD	1908RD	1992RD	2148RD	2228RD	2298RD	2380RD	2442RD
1728RD	1790RD	1850RD	1910RD	1994RD	2150RD	2230RD	2300RD	2382RD	2444RD
1730RD	1792RD	1852RD	1912RD	1996RD	2152RD	2232RD	2302RD	2384RD	2446RD
1732RD	1794RD	1854RD	1914RD	1998RD	2154RD	2234RD	2304RD	2386RD	2448RD
1734RD	1796RD	1856RD	1916RD	2000RD	2156RD	2236RD	2306RD	2388RD	2450RD
1736RD	1798RD	1858RD	1918RD	2002RD	2158RD	2238RD	2308RD	2390RD	2452RD
1738RD	1800RD	1860RD	1920RD	2004RD	2160RD	2240RD	2310RD	2392RD	2454RD
1740RD	1802RD	1862RD	1922RD	2006RD	2162RD	2242RD	2312RD	2394RD	2456RD
1742RD	1804RD	1864RD	1924RD	2008RD	2164RD	2244RD	2314RD	2396RD	2458RD
1744RD	1806RD	1866RD	1926RD	2010RD	2166RD	2246RD	2316RD	2398RD	2460RD
1746RD	1808RD	1868RD	1928RD	2012RD	2168RD	2248RD	2318RD	2400RD	2462RD
1748RD	1810RD	1870RD	1930RD	2014RD	2170RD	2250RD	2320RD	2402RD	2464RD
1750RD	1812RD	1872RD	1932RD	2016RD	2172RD	2252RD	2322RD	2404RD	2466RD
1752RD	1814RD	1874RD	1934RD	2018RD	2174RD	2254RD	2324RD	2406RD	2468RD
1754RD	1816RD	1876RD	1936RD	2020RD	2176RD	2256RD	2326RD	2408RD	2470RD
1756RD	1818RD	1878RD	1938RD	2022RD	2178RD	2258RD	2328RD	2410RD	2472RD
1758RD	1820RD	1880RD	1940RD	2024RD	2180RD	2260RD	2330RD	2412RD	2474RD
1760RD	1822RD	1882RD	1942RD	2026RD	2182RD	2262RD	2332RD	2414RD	2476RD
1762RD	1824RD	1884RD	1944RD	2028RD	2184RD	2264RD	2334RD	2416RD	2478RD
1764RD	1826RD	1886RD	1946RD	2030RD	2186RD	2266RD	2336RD	2418RD	2480RD
1766RD	1828RD	1888RD	1948RD	2032RD	2188RD	2268RD	2338RD	2420RD	2482RD
1768RD	1830RD	1890RD	1950RD	2034RD	2190RD	2270RD	2340RD	2422RD	2484RD
1770RD	1832RD	1892RD	1952RD	2036RD	2192RD	2272RD	2342RD	2424RD	2486RD
1772RD	1834RD	1894RD	1954RD	2038RD	2194RD	2274RD	2344RD	2426RD	2488RD
1774RD	1836RD	1896RD	1956RD	2040RD	2196RD	2276RD	2346RD	2428RD	2490RD
1776RD	1838RD	1898RD	1958RD	2042RD	2198RD	2278RD	2348RD	2430RD	2492RD
1778RD	1840RD	1900RD	1960RD	2044RD	2200RD	2280RD	2350RD	2432RD	2494RD
1780RD	1842RD	1902RD	1962RD	2046RD	2202RD	2282RD	2352RD	2434RD	2496RD
1782RD	1844RD	1904RD	1964RD	2048RD	2204RD	2284RD	2354RD	2436RD	2498RD
1784RD	1846RD	1906RD	1966RD	2050RD	2206RD	2286RD	2356RD	2438RD	2500RD
1786RD	1848RD	1908RD	1968RD	2052RD	2208RD	2288RD	2358RD	2440RD	2502RD
1788RD	1850RD	1910RD	1970RD	2054RD	2210RD	2290RD	2360RD	2442RD	2504RD
1790RD	1852RD	1912RD	1972RD	2056RD	2212RD	2292RD	2362RD	2444RD	2506RD
1792RD	1854RD	1914RD	1974RD	2058RD	2214RD	2294RD	2364RD	2446RD	2508RD
1794RD	1856RD	1916RD	1976RD	2060RD	2216RD	2296RD	2366RD	2448RD	2510RD
1796RD	1858RD	1918RD	1978RD	2062RD	2218RD	2298RD	2368RD	2450RD	2512RD
1798RD	1860RD	1920RD	1980RD	2064RD	2220RD	2300RD	2370RD	2452RD	2514RD
1800RD	1862RD	1922RD	1982RD	2066RD	2222RD	2302RD	2372RD	2454RD	2516RD
1802RD	1864RD	1924RD	1984RD	2068RD	2224RD	2304RD	2374RD	2456RD	2518RD
1804RD	1866RD	1926RD	1986RD	2070RD	2226RD	2306RD	2376RD	2458RD	2520RD
1806RD	1868RD	1928RD	1988RD	2072RD	2228RD	2308RD	2378RD	2460RD	2522RD
1808RD	1870RD	1930RD	1990RD	2074RD	2230RD	2310RD	2380RD	2462RD	2524RD
1810RD	1872RD	1932RD	1992RD	2076RD	2232RD	2312RD	2382RD	2464RD	2526RD
1812RD	1874RD	1934RD	1994RD	2078RD	2234RD	2314RD	2384RD	2466RD	2528RD
1814RD	1876RD	1936RD	1996RD	2080RD	2236RD	2316RD	2386RD	2468RD	2530RD
1816RD	1878RD	1938RD	1998RD	2082RD	2238RD	2318RD	2388RD	2470RD	2532RD
1818RD	1880RD	1940RD	2000RD	2084RD	2240RD	2320RD	2390RD	2472RD	2534RD
1820RD	1882RD	1942RD	2002RD	2086RD	2242RD	2322RD	2392RD	2474RD	2536RD
1822RD	1884RD	1944RD	2004RD	2088RD	2244RD	2324RD	2394RD	2476RD	2538RD
1824RD	1886RD	1946RD	2006RD	2090RD	2246RD	2326RD	2396RD	2478RD	2540RD
1826RD	1888RD	1948RD	2008RD	2092RD	2248RD	2328RD	2398RD	2480RD	2542RD
1828RD	1890RD	1950RD	2010RD	2094RD	2250RD	2330RD	2400RD	2482RD	2544RD
1830RD	1892RD	1952RD	2012RD	2096RD	2252RD	2332RD	2402RD	2484RD	2546RD
1832RD	1894RD	1954RD	2014RD	2098RD	2254RD	2334RD	2404RD	2486RD	2548RD
1834RD	1896RD	1956RD	2016RD	2100RD	2256RD	2336RD	2406RD	2488RD	2550RD
1836RD	1898RD	1958RD	2018RD	2102RD	2258RD	2338RD	2408RD	2490RD	2552RD
1838RD	1900RD	1960RD	2020RD	2104RD	2260RD	2340RD	2410RD	2492RD	2554RD
1840RD	1902RD	1962RD	2022RD	2106RD	2262RD	2342RD	2412RD	2494RD	2556RD
1842RD	1904RD	1964RD	2024RD	2108RD	2264RD	2344RD	2414RD	2496RD	2558RD
1844RD	1906RD	1966RD	2026RD	2110RD	2266RD	2346RD	2416RD	2498RD	2560RD
1846RD	1908RD	1968RD	2028RD	2112RD	2268RD	2348RD	2418RD	2500RD	2562RD
1848RD	1910RD	1970RD	2030RD	2114RD	2270RD	2350RD	2420RD	2502RD	2564RD
1850RD	1912RD	1972RD	2032RD	2116RD	2272RD	2352RD	2422RD	2504RD	2566RD
1852RD	1914RD	1974RD	2034RD	2118RD	2274RD	2354RD	2424RD	2506RD	2568RD
1854RD	1916RD	1976RD	2036RD	2120RD	2276RD	2356RD	2426RD	2508RD	2570RD
1856RD	1918RD	1978RD	2038RD	2122RD	2278RD	2358RD	2428RD	2510RD	2572RD
1858RD	1920RD	1980RD	2040RD	2124RD	2280RD	2360RD	2430RD	2512RD	2574RD
1860RD	1922RD	1982RD	2042RD	2126RD	2282RD	2362RD	2432RD	2514RD	2576RD
1862RD	1924RD	1984RD	2044RD	2128RD	2284RD	2364RD	2434RD	2516RD	2578RD
1864RD	1926RD	1986RD	2046RD	2130RD	2286RD	2366RD	2436RD	2518RD	2580RD
1866RD	1928RD	1988RD	2048RD	2132RD	2288RD	2368RD	2438RD	2520RD	2582RD
1868RD	1930RD	1990RD	2050RD	2134RD	2290RD	2370RD	2440RD	2522RD	2584RD
1870RD	1932RD	1992RD	2052RD	2136RD	2292RD	2372RD	2442RD	2524RD	2586RD
1872RD	1934RD	1994RD	2054RD	2138RD	2294RD	2374RD	2444RD	2526RD	2588RD
1874RD	1936RD	1996RD	2056RD	2140RD	2296RD	2376RD	2446RD	2528RD	2590RD
1876RD	1938RD	1998RD	2058RD	2142RD	2298RD	2378RD	2448RD	2530RD	2592RD
1878RD	1940RD	2000RD	2060RD	2144RD	2300RD	2380RD	2450RD	2532RD	2594RD
1880RD	1942RD	2002RD	2062RD	2146RD	2302RD	2382RD	2452RD	2534RD	2596RD
1882RD	1944RD	2004RD	2064RD	2148RD	2304RD	2384RD	2454RD	2536RD	2598RD
1884RD	1946RD	2006RD	2066RD	2150RD	2306RD	2386RD	2456RD	2538RD	2600RD
1886RD	1948RD	2008RD	2068RD	2152RD	2308RD	2388RD	2458RD	2540RD	2602RD
1888RD	1950RD	2010RD	2070RD	2154RD	2310RD	2390RD	2460RD	2542RD	2604RD
1890RD	1952RD	2012RD	2072RD	2156RD	2312RD	2392RD	2462RD	2544RD	2606RD
1892RD	1954RD	2014RD	2074RD	2158RD	2314RD	2394RD	2464RD	2546RD	2608RD
1894RD	1956RD	2016RD	2076RD	2160RD	2316RD	2396RD	2466RD	2548RD	2610RD
1896RD	1958RD	2018RD	2078RD	2162RD	2318RD	2398RD	2468RD	2550RD	2612RD
1898RD	1960RD	2020RD	2080RD	2164RD	2320RD	2400RD	2470RD	2552RD	2614RD
1900RD	1962RD	2022RD	2082RD	2166RD	2322RD	2402RD	2472RD	2554RD	2616RD
1902RD	1964RD	2024RD	2084RD	2168RD	2324RD	2404RD	2474RD	2556RD	2618RD
1904RD	1966RD	2026RD	2086RD	2170RD	2326RD	2406RD	2476RD	2558RD	2620RD
1906RD	1968RD	2028RD	2088RD	2172RD	2328RD	2408RD	2478RD	2560RD	2622RD
1908RD	1970RD	2030RD	2090RD	2174RD	2330RD	2410RD	2480RD	2562RD	2624RD
1910RD	1972RD	2032RD	2092RD	2176RD	2332RD	2412RD	2482RD	2564RD	2626RD
1912RD	1974RD	2034RD	2094RD	2178RD	2334RD	2414RD	2484RD	2566RD	2628RD
1914RD	1976RD	2036RD	2096RD	2180RD	2336RD	2416RD	2486RD	2568RD	2630RD
1916RD	1978RD	2038RD	2098RD	2182RD	2338RD	2418RD	2488RD	2570RD	2632RD
1918RD	1980RD	2040RD	2100RD	2184RD	2340RD	2420RD	2490RD	2572RD	2634RD
1920RD	1982RD	2042RD	2102RD	2186RD	2342RD	2422RD	2492RD	2574RD	2636RD
1922RD	1984RD	2044RD	2104RD</						



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7460M	7720M	8050M	8350M	8750M	9570M	9950M	10310M	10790M	11150M
7470M	7790M	8070M	8360M	8760M	9580M	9950M	10320M	10800M	11150M
7480M	9510M	9600M	8390M	9290M	9970M	10330M	10810M	11170M	
7490M	15670M	15680M	8400M	9240M	9980M	10450M	10820M	11180M	
7500M	7800M	8100M	8410M	9250M	9620M	9990M	10470M	10830M	11190M
7510M	7810M	8110M	8420M	9260M	9630M	10000M	10480M	10840M	11200M
7520M	7820M	8120M	8430M	9270M	9640M	10010M	10490M	10850M	11210M
7530M	7830M	8130M	8440M	9280M	9650M	10020M	10500M	10860M	11220M
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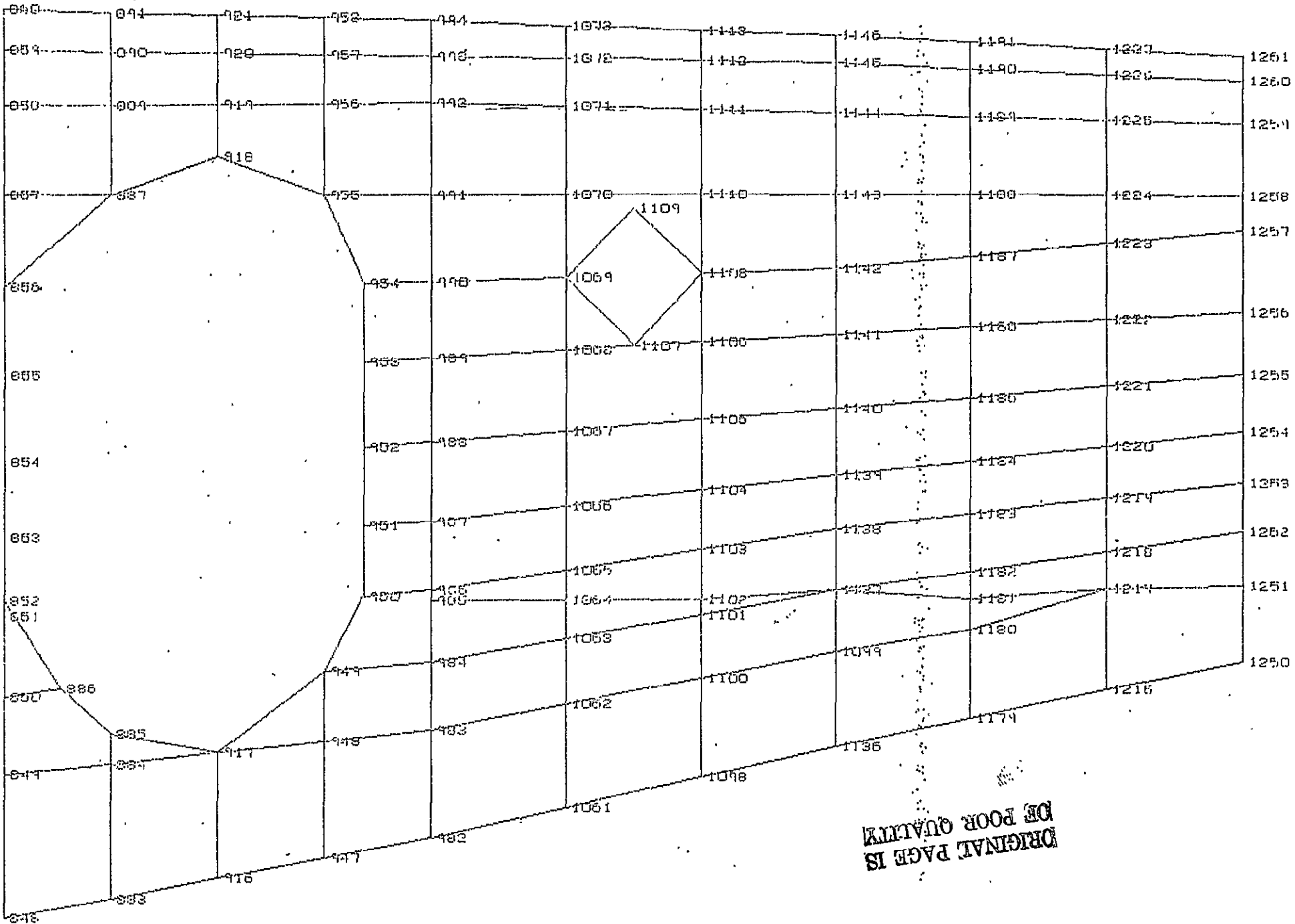
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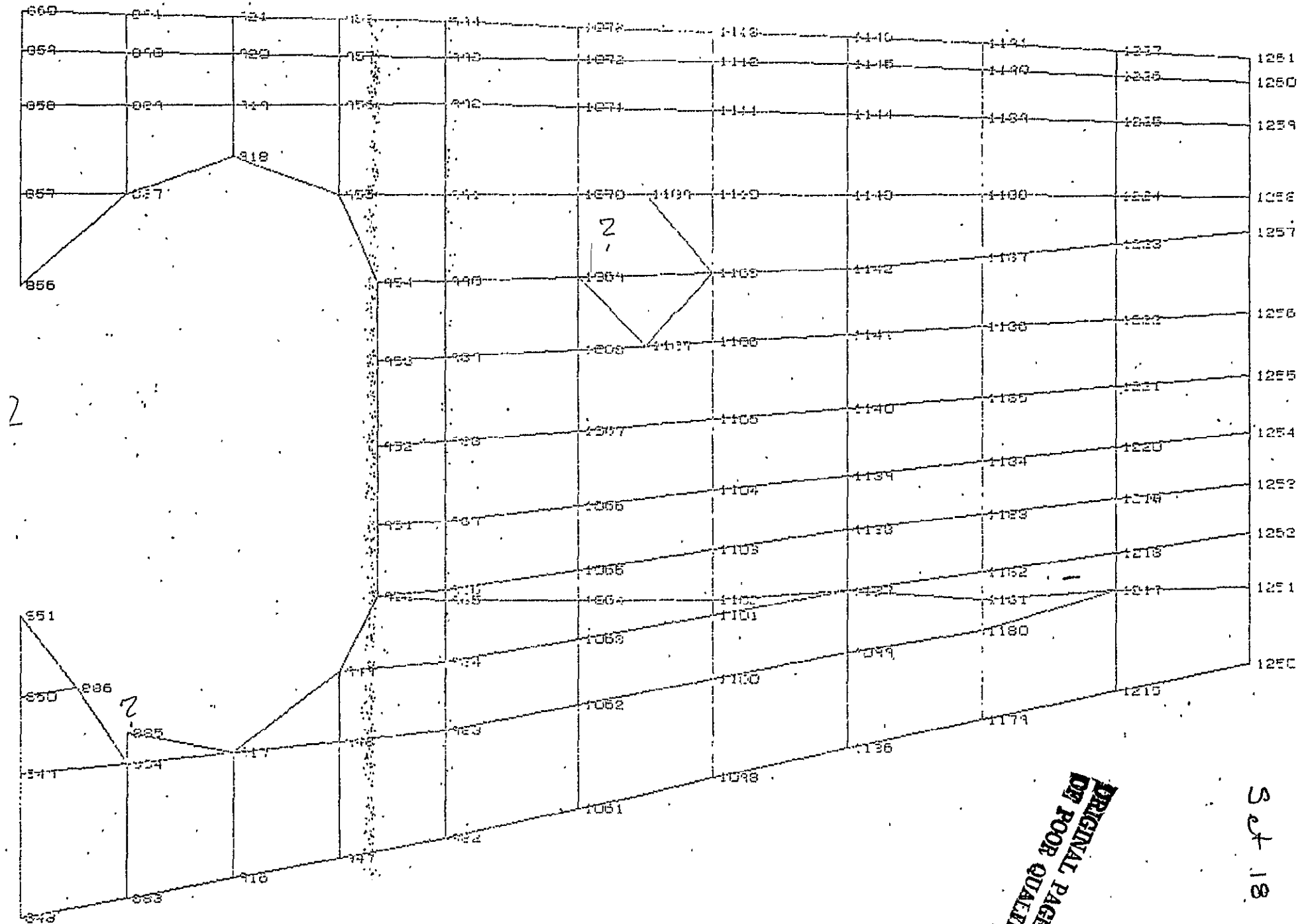
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SET 18

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			1954RD	2116RD	2194RD	2262RD	2334RD	2406RD	2474RD
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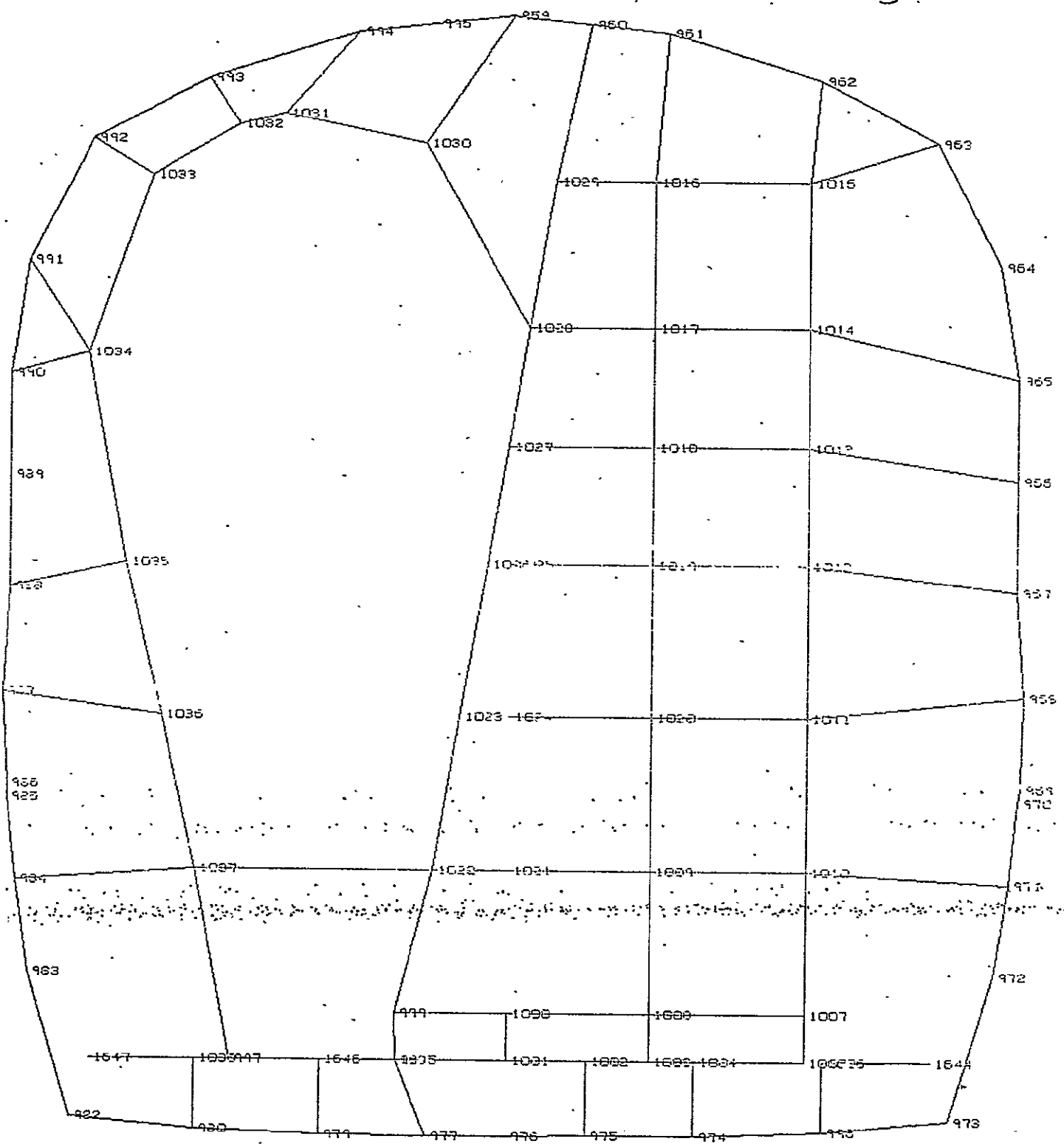
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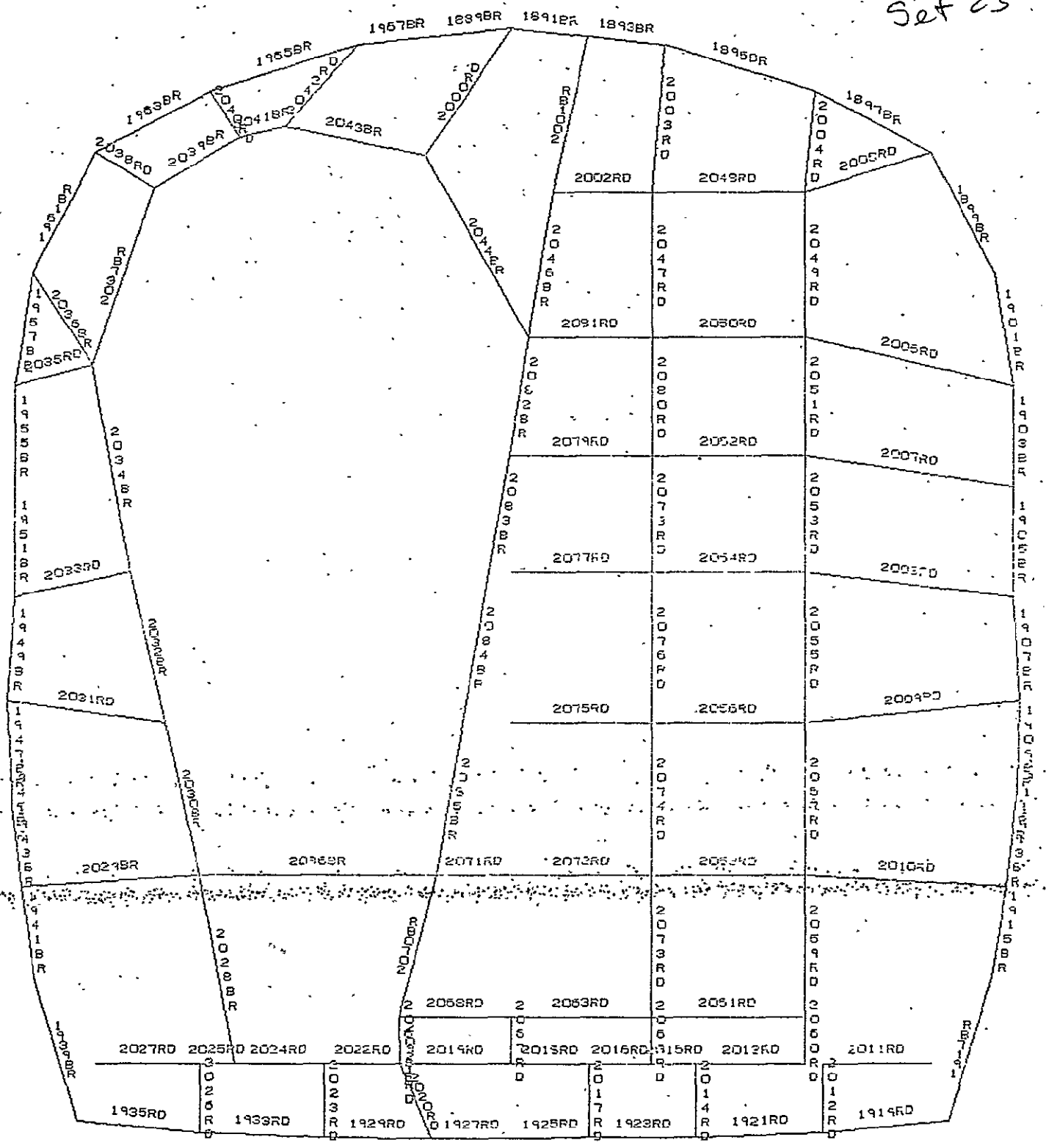
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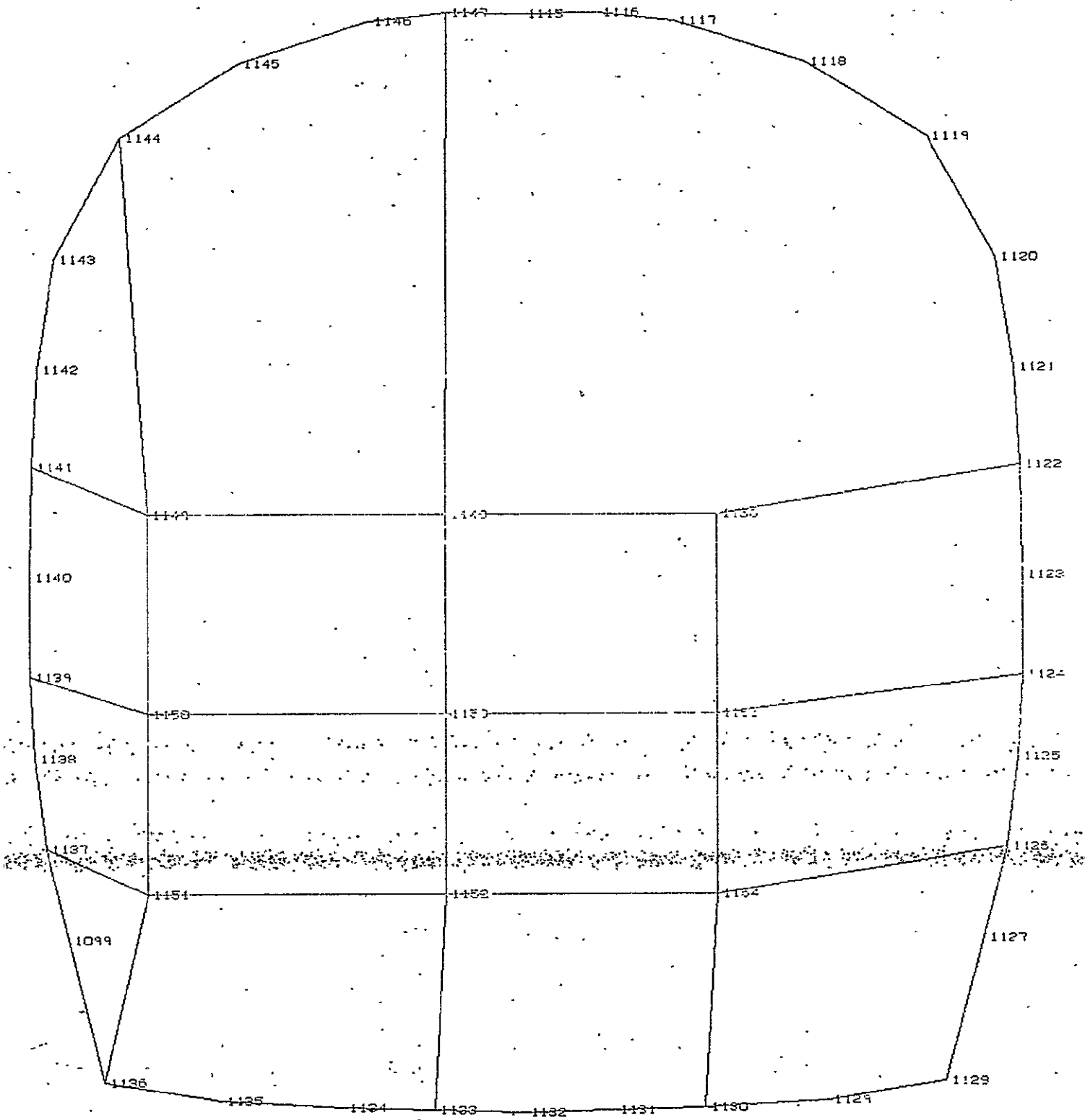
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Set 23



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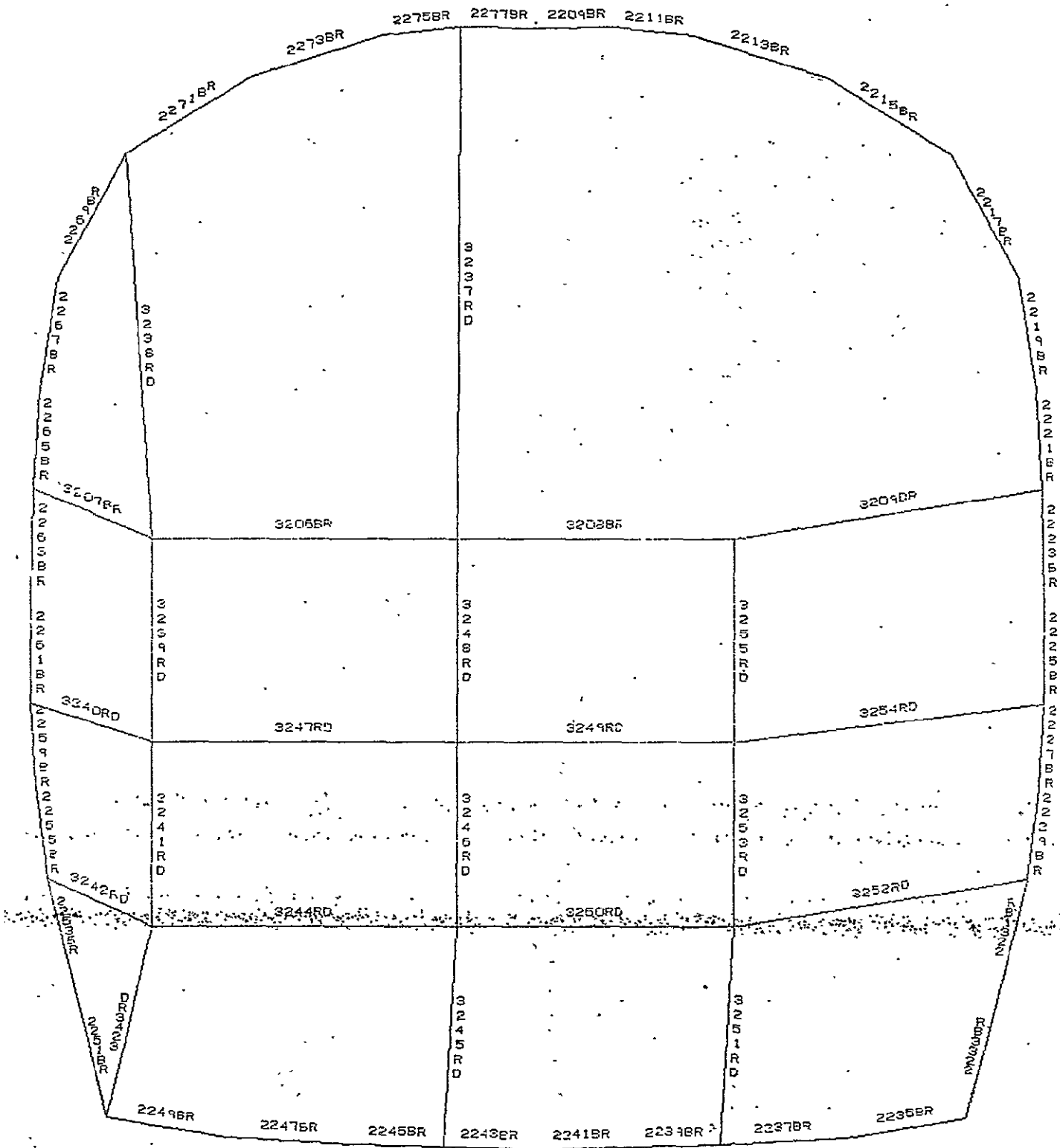
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TEST FUSELAGE
UNDEFORMED SHAPE

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Set 24



ST FUSELAGE
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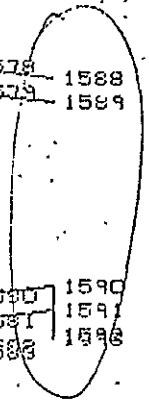
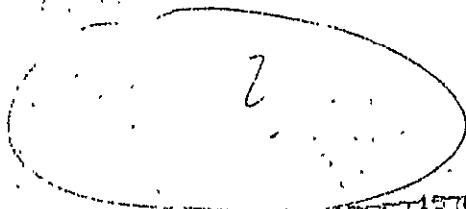
Sat 19

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22524RD	22592RD	22666RD	22730RD	22786RD	22838RD	22890RD	22942RD	22986RD	23012RD	23038RD	23064RD	23086RD	23104RD	23118RD	23130RD	23140RD
22526RD	22594RD	22668RD	22732RD	22788RD	22840RD	22892RD	22944RD	22988RD	23014RD	23040RD	23066RD	23088RD	23106RD	23120RD	23132RD	23142RD
22528RD	22596RD	22670RD	22734RD	22790RD	22842RD	22894RD	22946RD	22990RD	23016RD	23042RD	23068RD	23090RD	23108RD	23122RD	23134RD	23144RD
22530BR	22598BR	22672BR	22736BR	22792BR	22844BR	22896BR	22948BR	22992BR	23018BR	23044BR	23070BR	23092BR	23110BR	23124BR	23136BR	23146BR

SET 21

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11580M	11920M	12280M	12610M	12900M	13160M	13420M
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11600M	11940M	12300M	12630M	12920M	13180M	13440M
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11630M	11970M	12330M	12660M	12950M	13210M	13470M
11640M	11980M	12340M	12670M	12960M	13220M	13480M
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14340M 14420M 14500M 14580M

14350M 14430M 14510M 14590M

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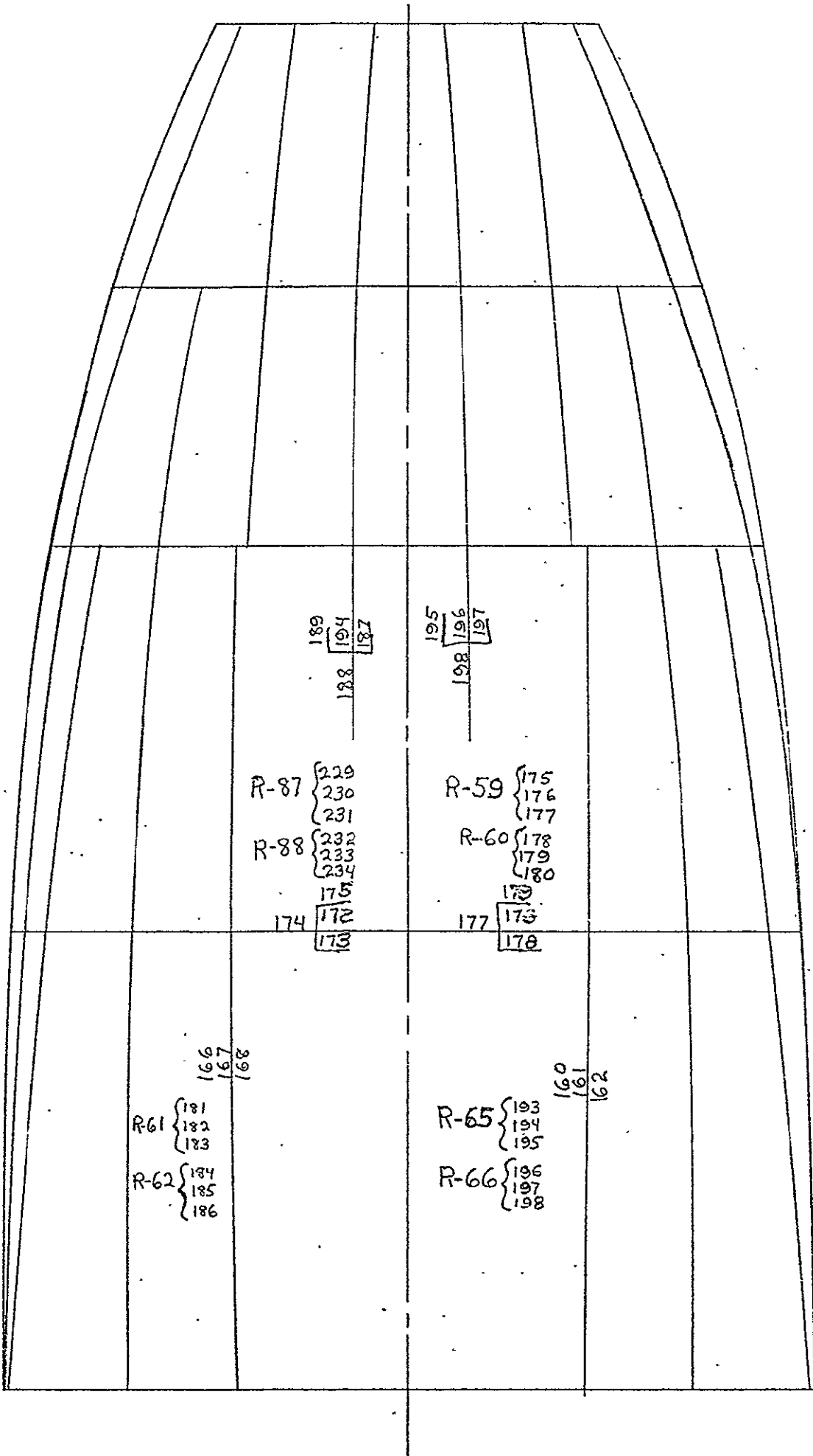
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11760M	12100M	12460M	12780M	13050M	13310M	13570M	13830M								
11750M	12090M	12450M	12770M	13040M	13300M	13560M	13820M								
11740M	12080M	12440M	12760M	13030M	13290M	13550M	13810M								
11730M	12070M	12430M	12750M	13020M	13280M	13540M	13800M	13950M	14060M	14180M	14300M	14380M	14460M	14540M	14620M
11720M	12060M	12420M	12740M	13010M	13270M	13530M	13790M	13940M	14050M	14170M	14290M	1	1	1	1
11710M	12050M	12410M	12730M	13000M	13260M	13520M	13780M	13930M	14040M	14160M	14280M	4	4	4	4
11700M	12040M	12400M	12720M	12990M	13250M	13510M	13770M	13920M	14030M	14150M	14270M	3	4	5	6
11690M	12030M	12390M	12710M	12980M	13240M	13500M	13760M	13910M	14020M	14140M	14260M	3	4	5	6
11680M	12020M	12380M	12700M	12970M	13230M	13490M	13750M	13900M	14010M	14130M	14250M	3	4	5	6
11670M	12010M	12370M	12690M	12960M	13220M	13480M	13740M	13890M	14000M	14120M	14240M	3	4	5	6
11660M	12000M	12360M	12680M	12950M	13210M	13470M	13730M	13880M	13990M	14110M	14230M	3	4	5	6

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STRAIN GAGE LOCATIONS

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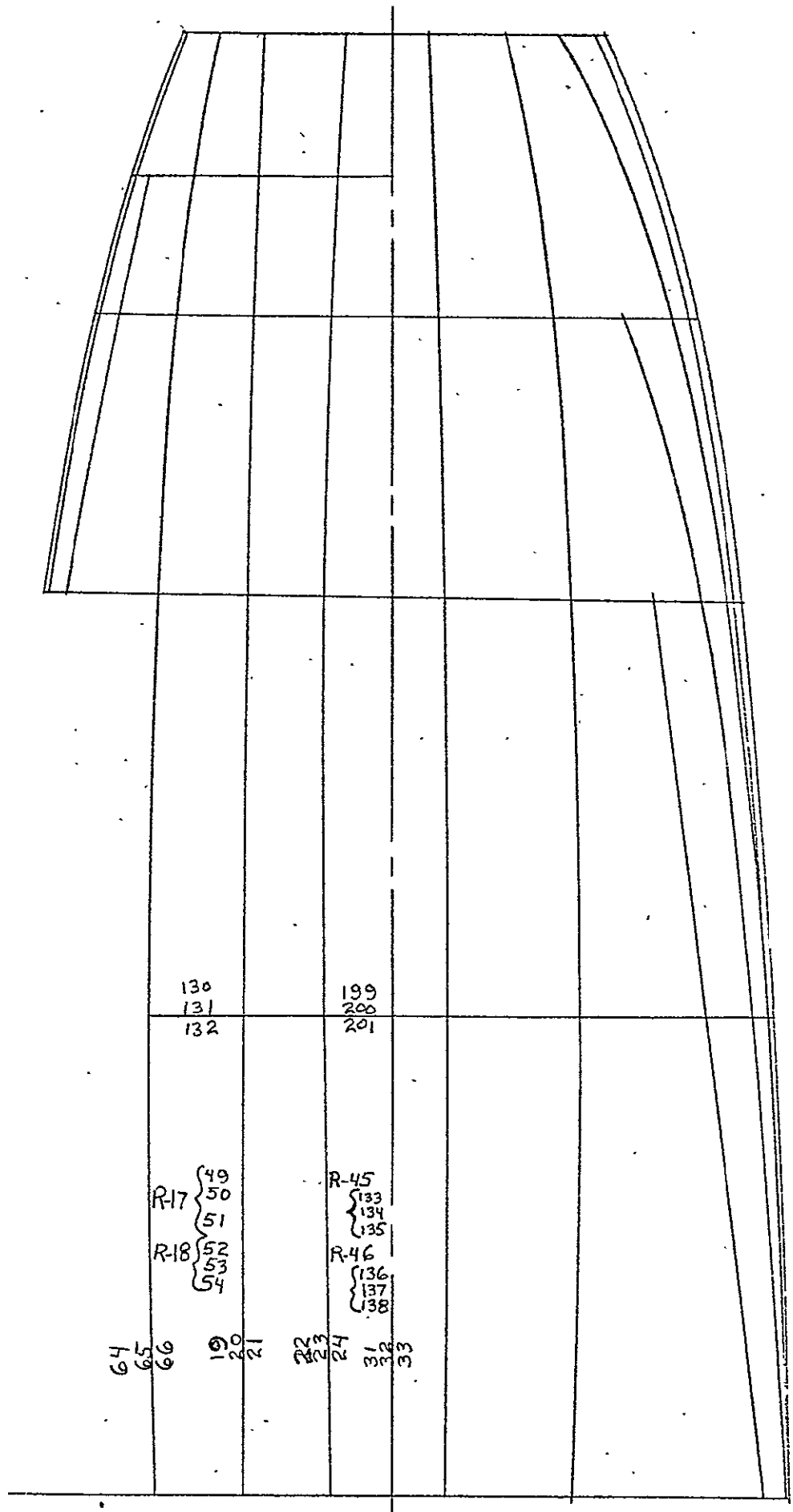
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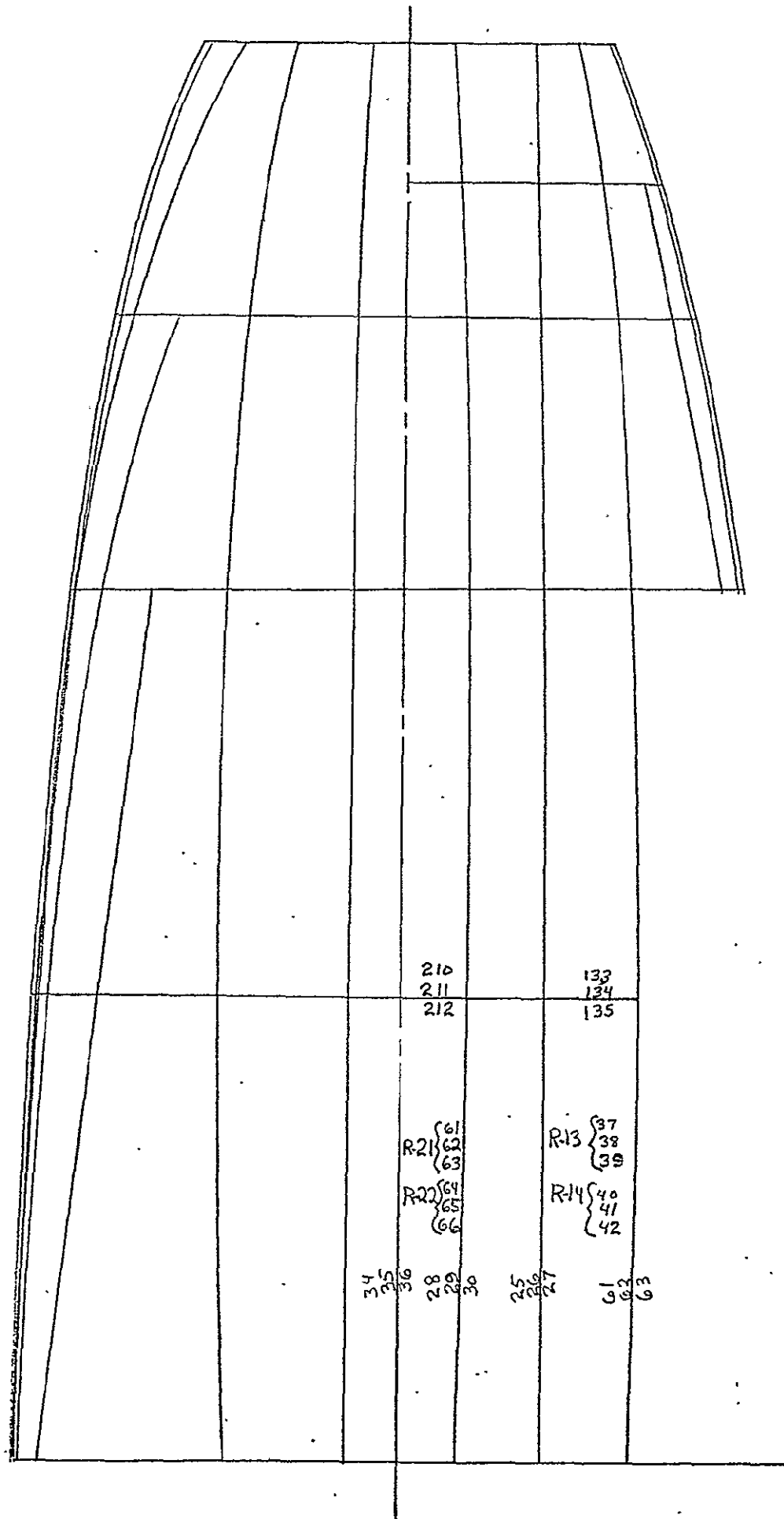
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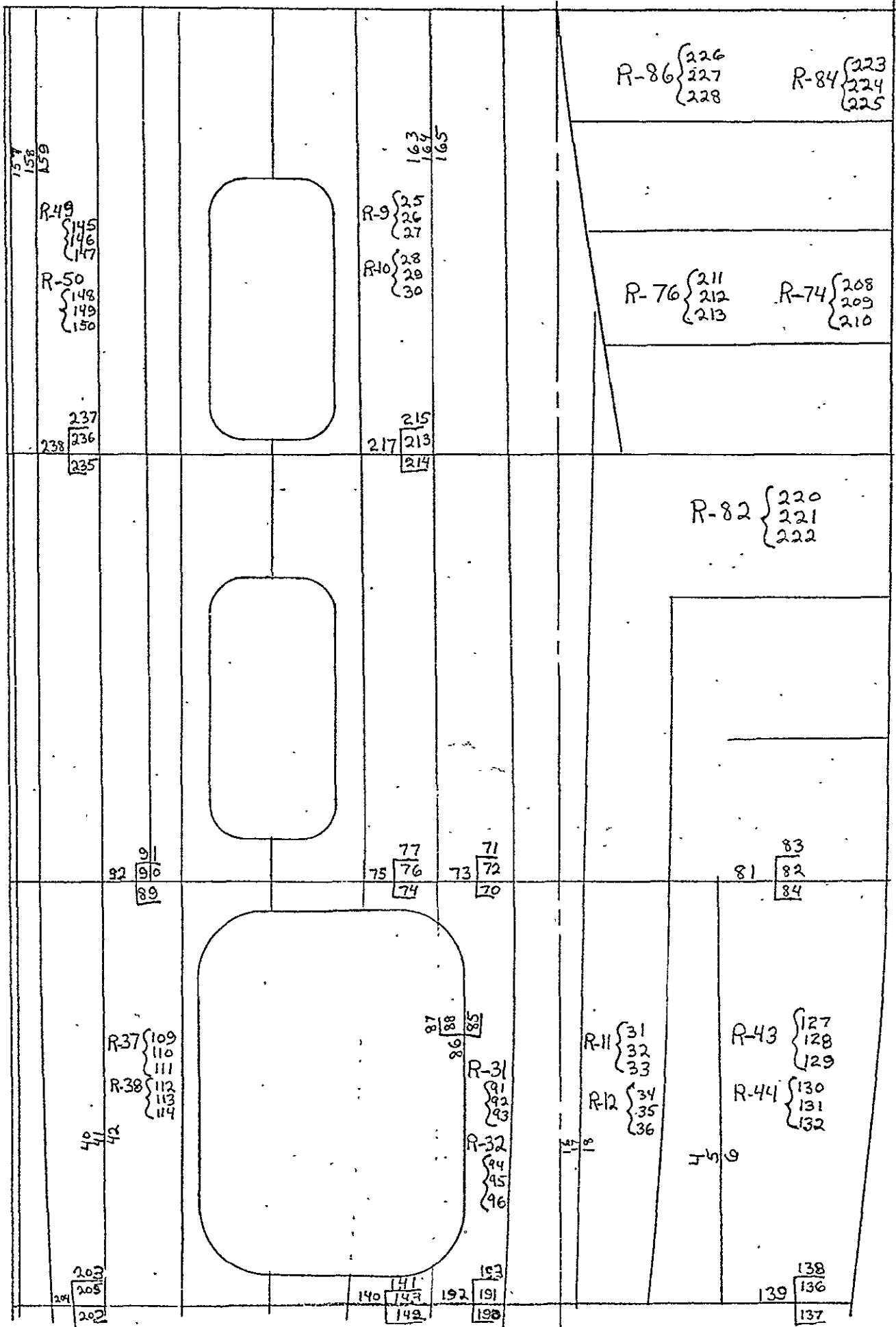
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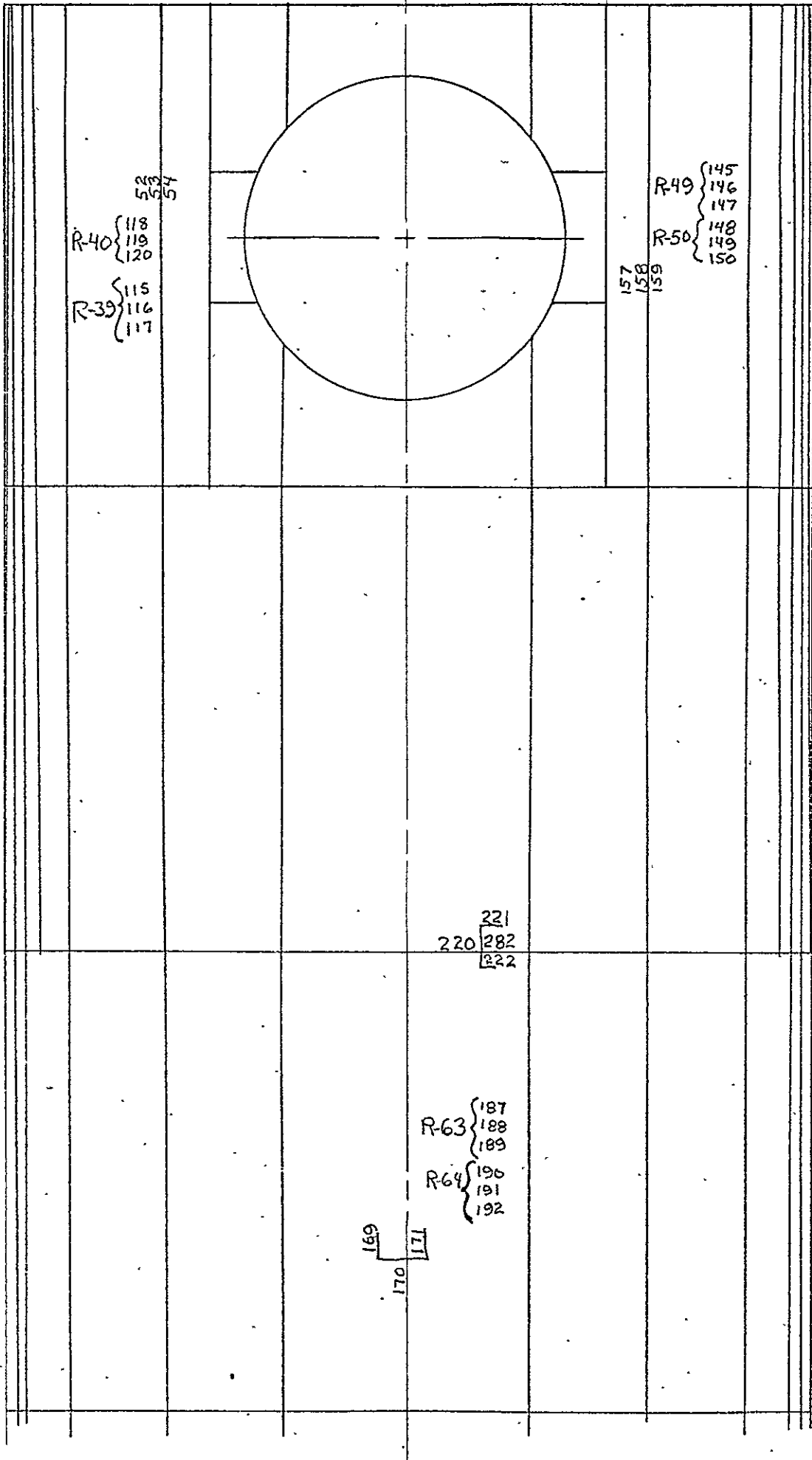
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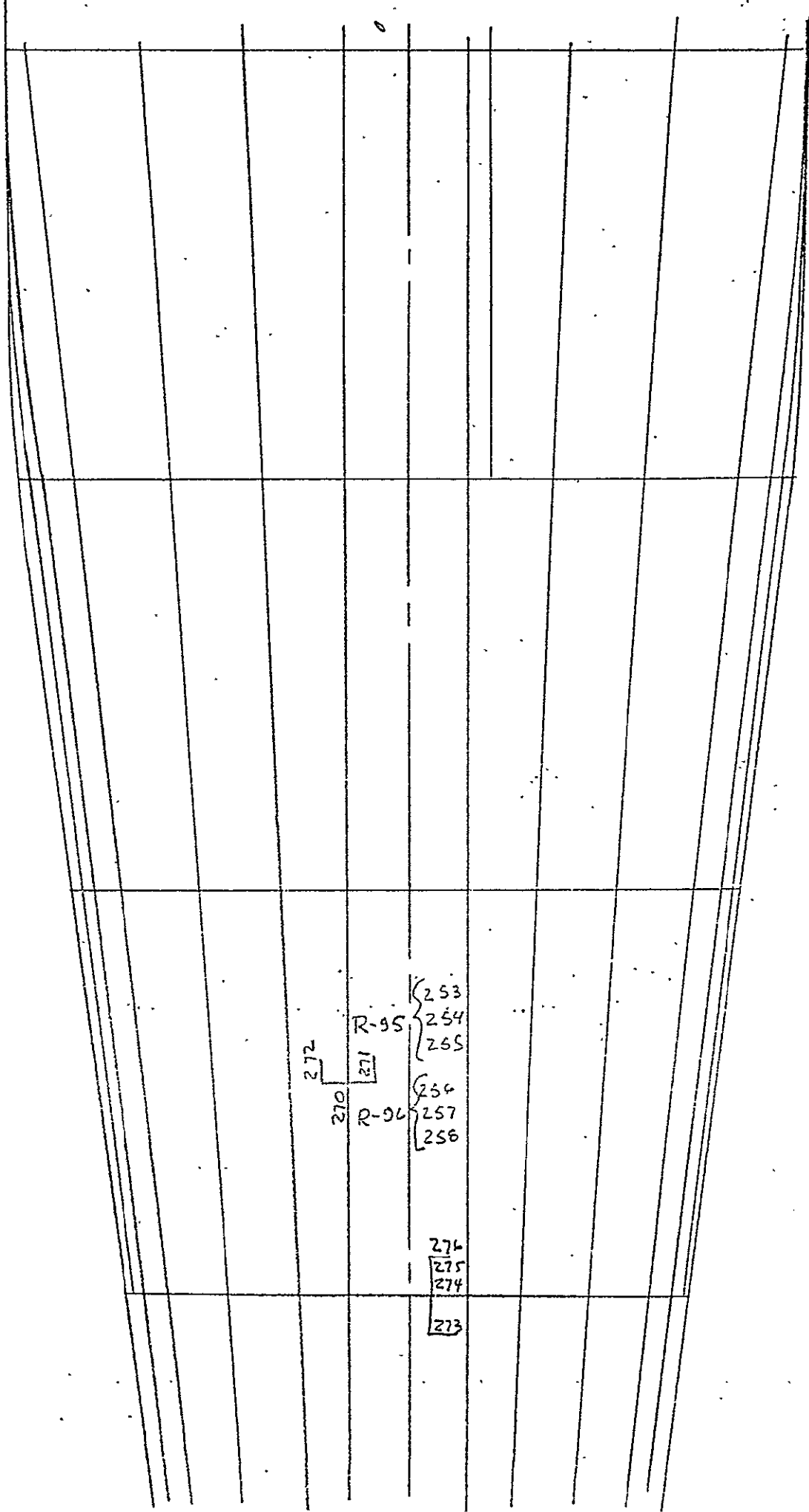
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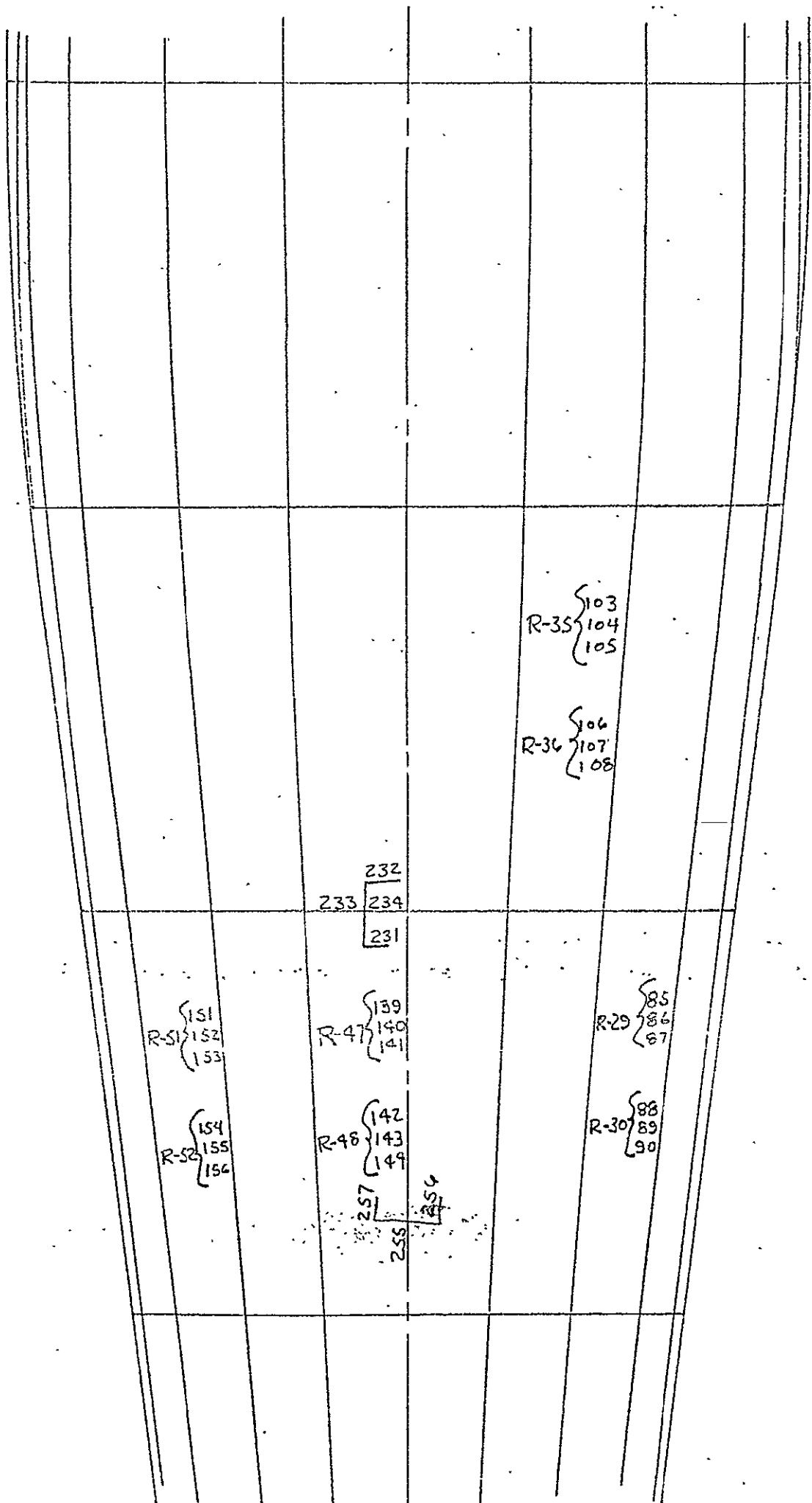
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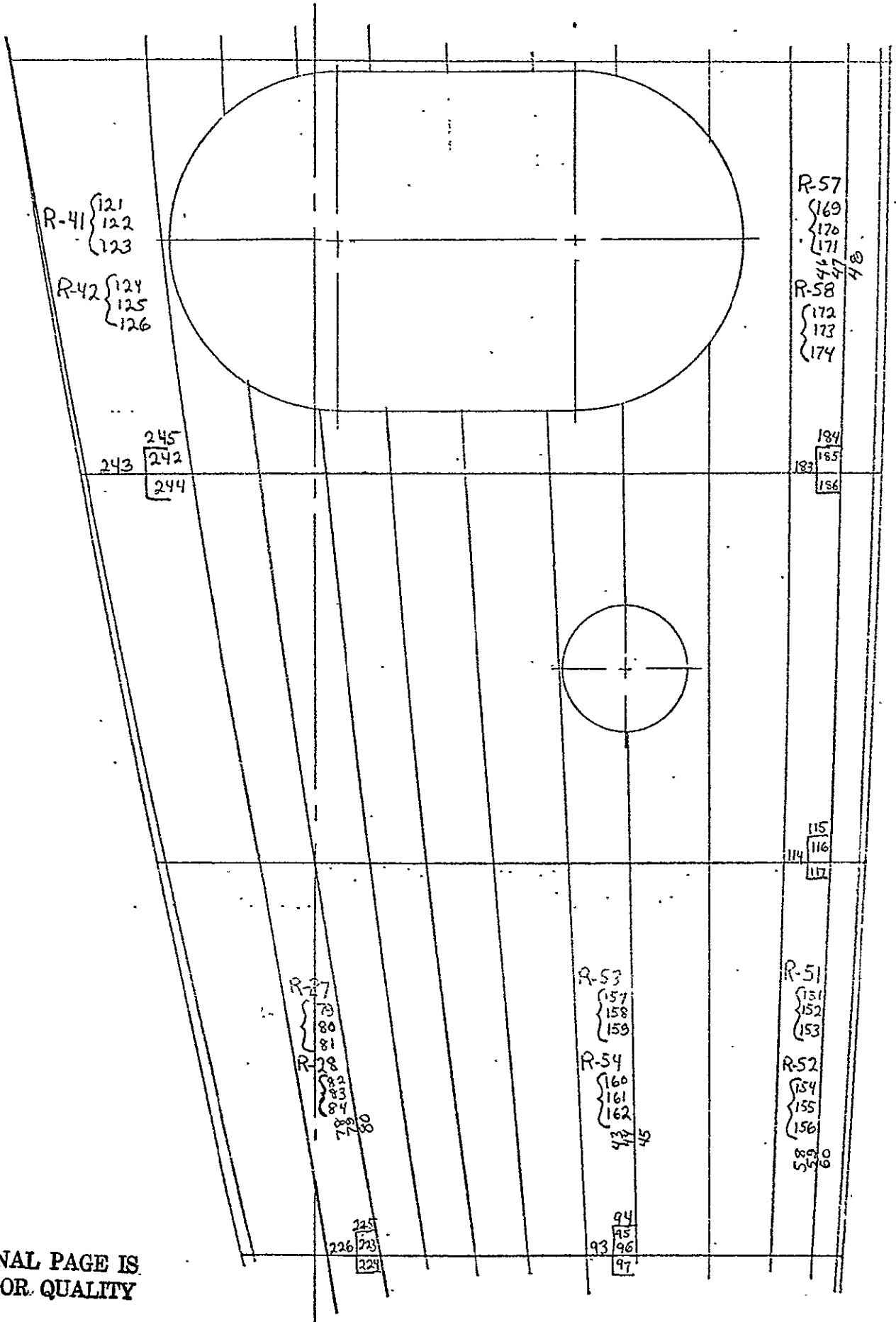
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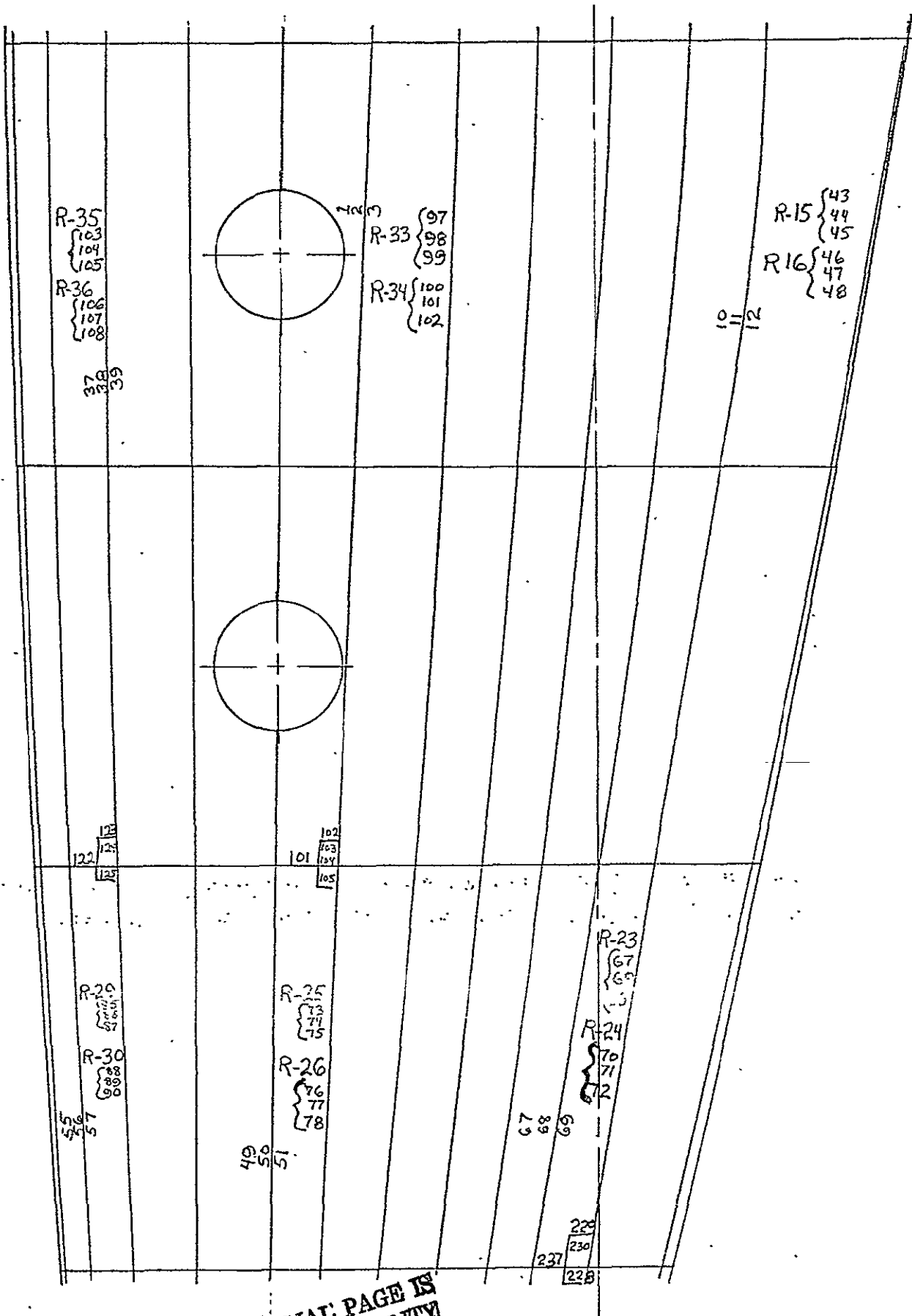
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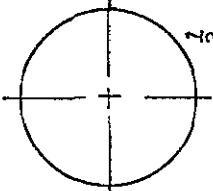
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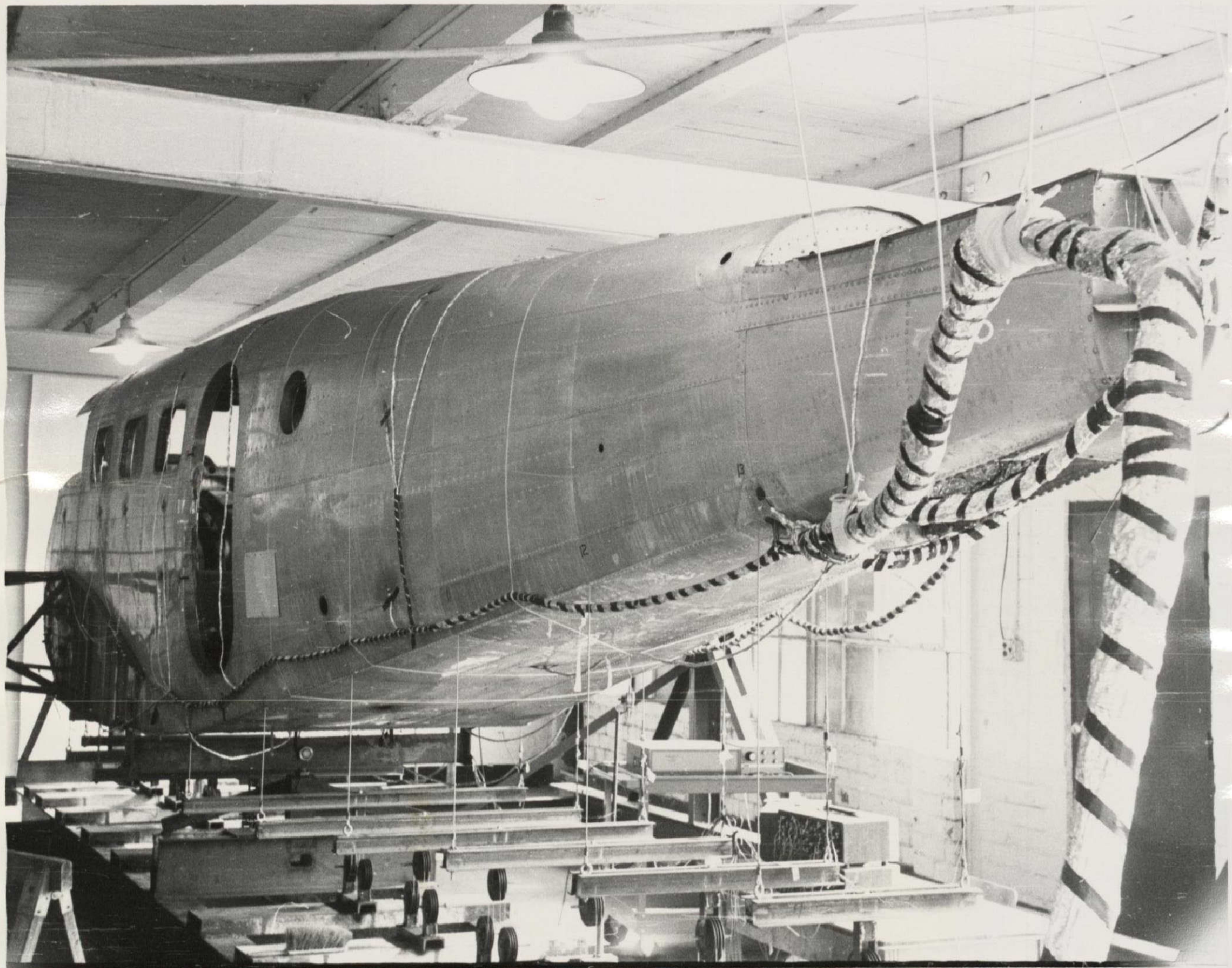
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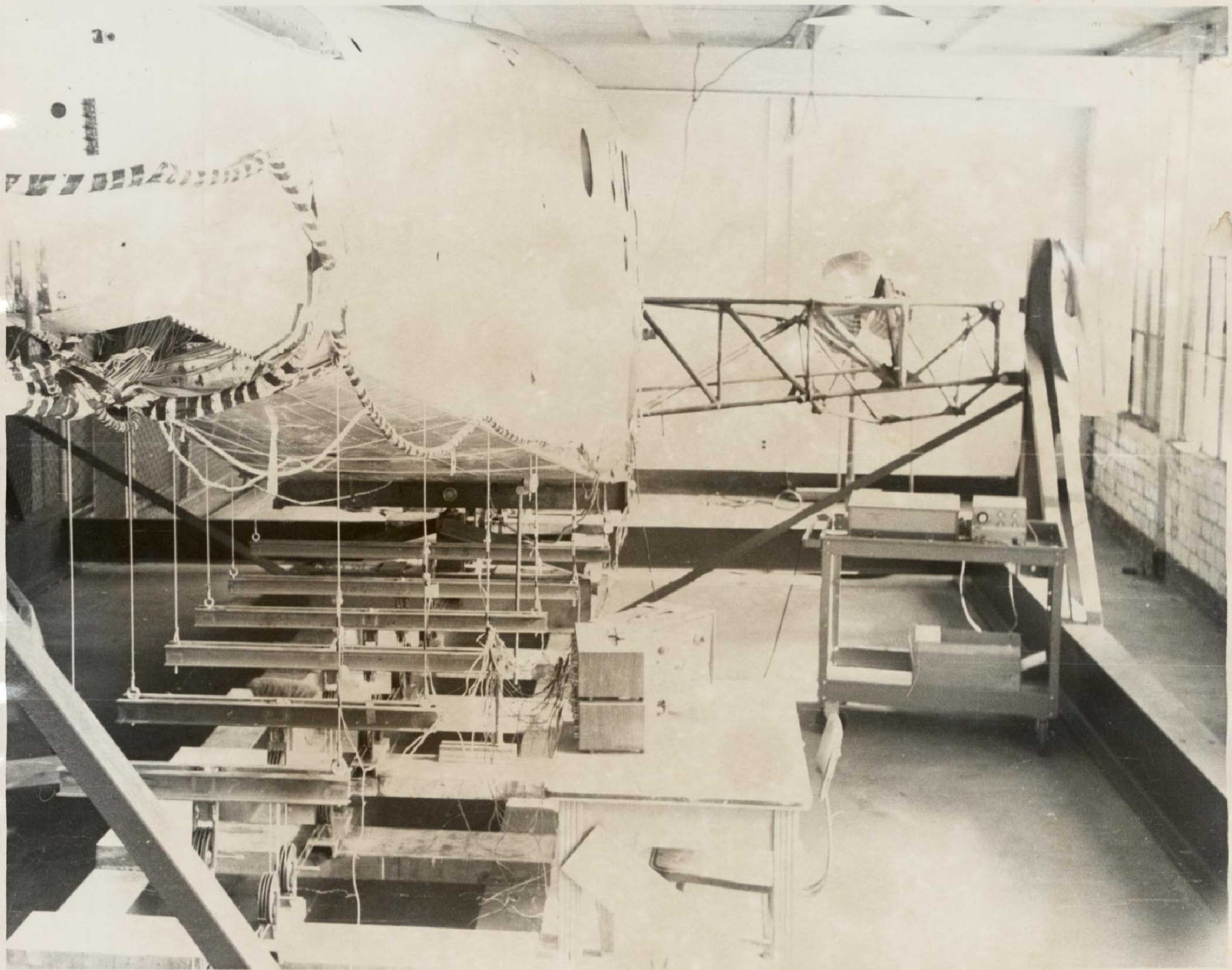
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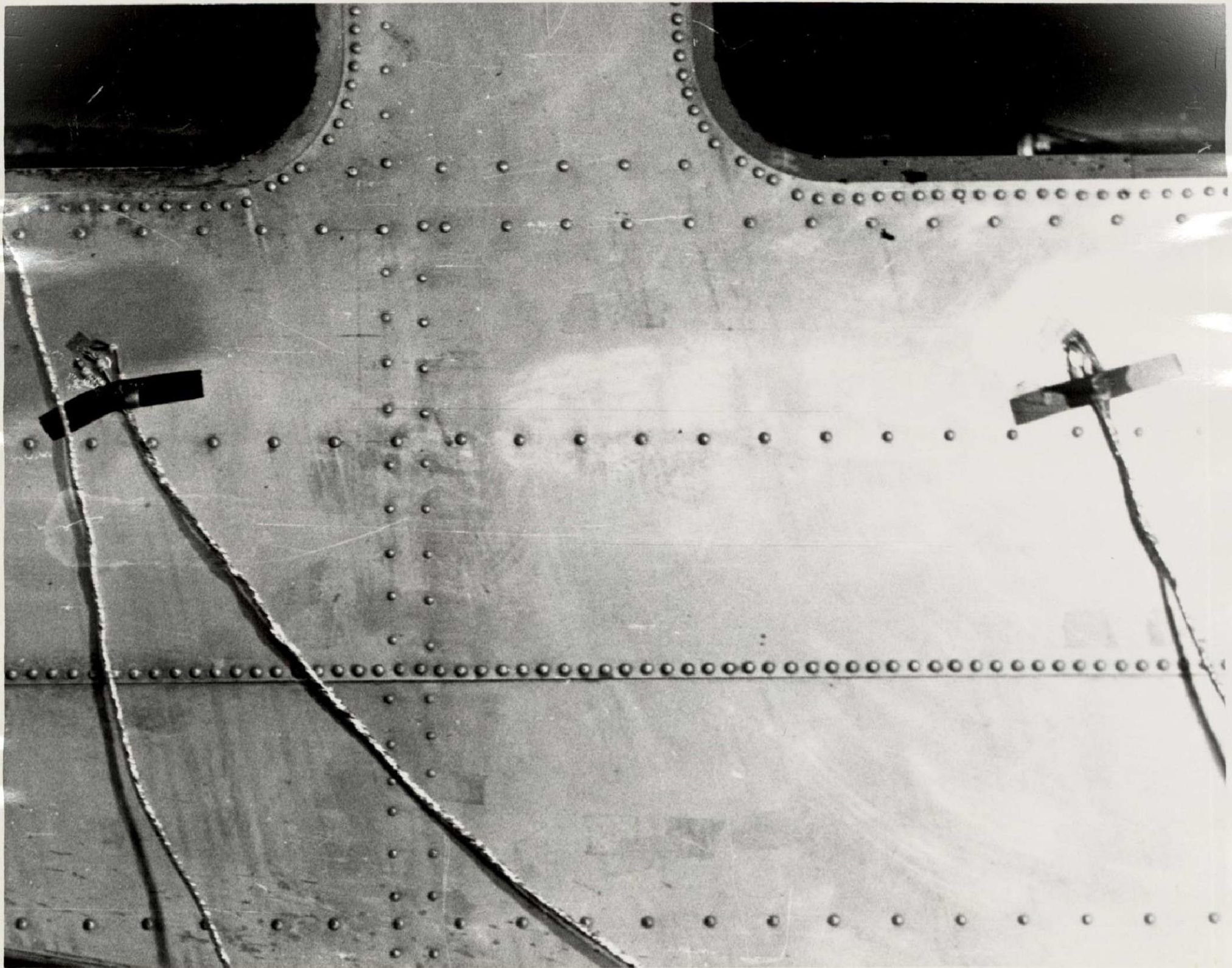
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EXPERIMENTALLY
MEASURED RESULTS

LOAD = 90 POUNDS

BENDING

GAGE 1	STRESS=	180.	GAGE 31	STRESS=	-270.	GAGE 61	STRESS=	870.
GAGE 2	STRESS=	-40.	GAGE 32	STRESS=	-430.	GAGE 62	STRESS=	770.
GAGE 3	STRESS=	410.	GAGE 33	STRESS=	-360.	GAGE 63	STRESS=	1510.
GAGE 4	STRESS=	-330.	GAGE 34	STRESS=	-330.	GAGE 64	STRESS=	810.
GAGE 5	STRESS=	4230.	GAGE 35	STRESS=	-70.	GAGE 65	STRESS=	830.
GAGE 6	STRESS=	-3930.	GAGE 36	STRESS=	-200.	GAGE 66	STRESS=	1540.
GAGE 7	STRESS=	1030.	GAGE 37	STRESS=	550.	GAGE 67	STRESS=	-90.
GAGE 8	STRESS=	1510.	GAGE 38	STRESS=	530.	GAGE 68	STRESS=	-20.
GAGE 9	STRESS=	-540.	GAGE 39	STRESS=	550.	GAGE 69	STRESS=	-170.
GAGE 10	STRESS=	110.	GAGE 40	STRESS=	1260.	GAGE 70	STRESS=	-2440.
GAGE 11	STRESS=	-340.	GAGE 41	STRESS=	1230.	GAGE 71	STRESS=	610.
GAGE 12	STRESS=	-30.	GAGE 42	STRESS=	670.	GAGE 72	STRESS=	940.
GAGE 13	STRESS=	380.	GAGE 43	STRESS=	220.	GAGE 73	STRESS=	-2010.
GAGE 14	STRESS=	1400.	GAGE 44	STRESS=	20.	GAGE 74	STRESS=	-750.
GAGE 15	STRESS=	-160.	GAGE 45	STRESS=	200.	GAGE 75	STRESS=	-1560.
GAGE 16	STRESS=	-150.	GAGE 46	STRESS=	960.	GAGE 76	STRESS=	-2040.
GAGE 17	STRESS=	200.	GAGE 47	STRESS=	1000.	GAGE 77	STRESS=	-2350.
GAGE 18	STRESS=	560.	GAGE 48	STRESS=	910.	GAGE 78	STRESS=	-420.
GAGE 19	STRESS=	650.	GAGE 49	STRESS=	40.	GAGE 79	STRESS=	-680.
GAGE 20	STRESS=	980.	GAGE 50	STRESS=	-10.	GAGE 80	STRESS=	-460.
GAGE 21	STRESS=	680.	GAGE 51	STRESS=	-10.	GAGE 81	STRESS=	-2350.
GAGE 22	STRESS=	280.	GAGE 52	STRESS=	270.	GAGE 82	STRESS=	-730.
GAGE 23	STRESS=	-20.	GAGE 53	STRESS=	350.	GAGE 83	STRESS=	-370.
GAGE 24	STRESS=	-99800.	GAGE 54	STRESS=	260.	GAGE 84	STRESS=	-4090.
GAGE 25	STRESS=	640.	GAGE 55	STRESS=	430.	GAGE 85	STRESS=	840.
GAGE 26	STRESS=	540.	GAGE 56	STRESS=	460.	GAGE 86	STRESS=	630.
GAGE 27	STRESS=	740.	GAGE 57	STRESS=	430.	GAGE 87	STRESS=	70.
GAGE 28	STRESS=	270.	GAGE 58	STRESS=	720.	GAGE 88	STRESS=	-100.
GAGE 29	STRESS=	370.	GAGE 59	STRESS=	690.	GAGE 89	STRESS=	1940.
GAGE 30	STRESS=	-420.	GAGE 60	STRESS=	720.	GAGE 90	STRESS=	-1090.

LOAD = 90 POUNDS BENDING

GAGE 91 STRESS=	-1660.	GAGE 121 STRESS=	-630.	GAGE 151 STRESS=	1320.
GAGE 92 STRESS=	-470.	GAGE 122 STRESS=	80.	GAGE 152 STRESS=	1350.
GAGE 93 STRESS=	160.	GAGE 123 STRESS=	20.	GAGE 153 STRESS=	1320.
GAGE 94 STRESS=	210.	GAGE 124 STRESS=	100.	GAGE 154 STRESS=	490.
GAGE 95 STRESS=	260.	GAGE 125 STRESS=	-170.	GAGE 155 STRESS=	260.
GAGE 96 STRESS=	110.	GAGE 126 STRESS=	-1280.	GAGE 156 STRESS=	-480.
GAGE 97 STRESS=	-10.	GAGE 127 STRESS=	-2790.	GAGE 157 STRESS=	330.
GAGE 98 STRESS=	1740.	GAGE 128 STRESS=	-720.	GAGE 158 STRESS=	380.
GAGE 99 STRESS=	1290.	GAGE 129 STRESS=	-630.	GAGE 159 STRESS=	230.
GAGE 100 STRESS=	1710.	GAGE 130 STRESS=	-70.	GAGE 160 STRESS=	-970.
GAGE 101 STRESS=	150.	GAGE 131 STRESS=	-140.	GAGE 161 STRESS=	-360.
GAGE 102 STRESS=	10.	GAGE 132 STRESS=	-170.	GAGE 162 STRESS=	-500.
GAGE 103 STRESS=	-30.	GAGE 133 STRESS=	-20.	GAGE 163 STRESS=	1050.
GAGE 104 STRESS=	40.	GAGE 134 STRESS=	40.	GAGE 164 STRESS=	390.
GAGE 105 STRESS=	60.	GAGE 135 STRESS=	-120.	GAGE 165 STRESS=	1050.
GAGE 106 STRESS=	-1640.	GAGE 136 STRESS=	220.	GAGE 166 STRESS=	-240.
GAGE 107 STRESS=	-750.	GAGE 137 STRESS=	40.	GAGE 167 STRESS=	-340.
GAGE 108 STRESS=	-1380.	GAGE 138 STRESS=	950.	GAGE 168 STRESS=	530.
GAGE 109 STRESS=	810.	GAGE 139 STRESS=	440.	GAGE 169 STRESS=	840.
GAGE 110 STRESS=	-3960.	GAGE 140 STRESS=	-880.	GAGE 170 STRESS=	960.
GAGE 111 STRESS=	-1180.	GAGE 141 STRESS=	-1120.	GAGE 171 STRESS=	930.
GAGE 112 STRESS=	-3820.	GAGE 142 STRESS=	-460.	GAGE 172 STRESS=	-1160.
GAGE 113 STRESS=	-180.	GAGE 143 STRESS=	-1030.	GAGE 173 STRESS=	-200.
GAGE 114 STRESS=	110.	GAGE 144 STRESS=	1260.	GAGE 174 STRESS=	160.
GAGE 115 STRESS=	-100.	GAGE 145 STRESS=	1360.	GAGE 175 STRESS=	-1760.
GAGE 116 STRESS=	-80.	GAGE 146 STRESS=	1350.	GAGE 176 STRESS=	-450.
GAGE 117 STRESS=	-100.	GAGE 147 STRESS=	-1220.	GAGE 177 STRESS=	60.
GAGE 118 STRESS=	-1900.	GAGE 148 STRESS=	-410.	GAGE 178 STRESS=	1730.
GAGE 119 STRESS=	-1310.	GAGE 149 STRESS=	-1300.	GAGE 179 STRESS=	-1390.
GAGE 120 STRESS=	-4310.	GAGE 150 STRESS=	50.	GAGE 180 STRESS=	350.

LOAD = 90 POUNDS BENDING

GAGE 181 STRESS=	190.	GAGE 211 STRESS=	150.	GAGE 241 STRESS=	-1320.
GAGE 182 STRESS=	110.	GAGE 212 STRESS=	40.	GAGE 242 STRESS=	320.
GAGE 183 STRESS=	-360.	GAGE 213 STRESS=	-1060.	GAGE 243 STRESS=	730.
GAGE 184 STRESS=	-150.	GAGE 214 STRESS=	50.	GAGE 244 STRESS=	450.
GAGE 185 STRESS=	-50.	GAGE 215 STRESS=	-1110.	GAGE 245 STRESS=	-120.
GAGE 186 STRESS=	-90.	GAGE 216 STRESS=	-660.	GAGE 246 STRESS=	-1190.
GAGE 187 STRESS=	-570.	GAGE 217 STRESS=	-720.	GAGE 247 STRESS=	-850.
GAGE 188 STRESS=	130.	GAGE 218 STRESS=	-400.	GAGE 248 STRESS=	-860.
GAGE 189 STRESS=	-960.	GAGE 219 STRESS=	-930.	GAGE 249 STRESS=	-880.
GAGE 190 STRESS=	-600.	GAGE 220 STRESS=	430.	GAGE 250 STRESS=	-780.
GAGE 191 STRESS=	-390.	GAGE 221 STRESS=	2610.	GAGE 251 STRESS=	-1540.
GAGE 192 STRESS=	-430.	GAGE 222 STRESS=	-840.	GAGE 252 STRESS=	-800.
GAGE 193 STRESS=	-540.	GAGE 223 STRESS=	440.	GAGE 253 STRESS=	-560.
GAGE 194 STRESS=	-830.	GAGE 224 STRESS=	160.	GAGE 254 STRESS=	-730.
GAGE 195 STRESS=	-1130.	GAGE 225 STRESS=	650.	GAGE 255 STRESS=	530.
GAGE 196 STRESS=	-950.	GAGE 226 STRESS=	560.	GAGE 256 STRESS=	60.
GAGE 197 STRESS=	-660.	GAGE 227 STRESS=	670.	GAGE 257 STRESS=	710.
GAGE 198 STRESS=	180.	GAGE 228 STRESS=	130.	GAGE 258 STRESS=	-1430.
GAGE 199 STRESS=	10.	GAGE 229 STRESS=	620.	GAGE 259 STRESS=	-1340.
GAGE 200 STRESS=	-20.	GAGE 230 STRESS=	400.	GAGE 260 STRESS=	530.
GAGE 201 STRESS=	80.	GAGE 231 STRESS=	20.	GAGE 261 STRESS=	90.
GAGE 202 STRESS=	-210.	GAGE 232 STRESS=	-550.	GAGE 262 STRESS=	40.
GAGE 203 STRESS=	120.	GAGE 233 STRESS=	-240.	GAGE 263 STRESS=	-1580.
GAGE 204 STRESS=	-50.	GAGE 234 STRESS=	-640.	GAGE 264 STRESS=	440.
GAGE 205 STRESS=	100.	GAGE 235 STRESS=	-110.	GAGE 265 STRESS=	-1720.
GAGE 206 STRESS=	-290.	GAGE 236 STRESS=	220.	GAGE 266 STRESS=	90.
GAGE 207 STRESS=	50.	GAGE 237 STRESS=	330.	GAGE 267 STRESS=	-2250.
GAGE 208 STRESS=	530.	GAGE 238 STRESS=	-230.	GAGE 268 STRESS=	-2100.
GAGE 209 STRESS=	370.	GAGE 239 STRESS=	-1850.	GAGE 269 STRESS=	390.
GAGE 210 STRESS=	130.	GAGE 240 STRESS=	-1160.	GAGE 270 STRESS=	-650.

LOAD = 90 POUNDS BENDING

GAGE 271 STRESS= -720.

GAGE 272 STRESS= -440.

GAGE 273 STRESS= 130.

GAGE 274 STRESS= 210.

GAGE 275 STRESS= -480.

GAGE 276 STRESS= -500.

GAGE 277 STRESS= -530.

GAGE 278 STRESS= 570.

GAGE 279 STRESS= -110.

GAGE 280 STRESS= -2500.

GAGE 281 STRESS= -2680.

GAGE 282 STRESS= 2390.

GAGE 283 STRESS= 5857.

LOAD = 140 POUNDS

BENDING

GAGE 1	STRESS=	940.	GAGE 31	STRESS=	4920.	GAGE 61	STRESS=	-1210.
GAGE 2	STRESS=	2550.	GAGE 32	STRESS=	-92720.	GAGE 62	STRESS=	350.
GAGE 3	STRESS=	4070.	GAGE 33	STRESS=	6260.	GAGE 63	STRESS=	-99770.
GAGE 4	STRESS=	-200.	GAGE 34	STRESS=	-1230.	GAGE 64	STRESS=	-600.
GAGE 5	STRESS=	-2390.	GAGE 35	STRESS=	-5780.	GAGE 65	STRESS=	60.
GAGE 6	STRESS=	1940.	GAGE 36	STRESS=	3400.	GAGE 66	STRESS=	-2090.
GAGE 7	STRESS=	1090.	GAGE 37	STRESS=	1070.	GAGE 67	STRESS=	80.
GAGE 8	STRESS=	200.	GAGE 38	STRESS=	-100.	GAGE 68	STRESS=	780.
GAGE 9	STRESS=	2400.	GAGE 39	STRESS=	-280.	GAGE 69	STRESS=	1510.
GAGE 10	STRESS=	900.	GAGE 40	STRESS=	1410.	GAGE 70	STRESS=	-110.
GAGE 11	STRESS=	-560.	GAGE 41	STRESS=	-900.	GAGE 71	STRESS=	-850.
GAGE 12	STRESS=	2140.	GAGE 42	STRESS=	-550.	GAGE 72	STRESS=	740.
GAGE 13	STRESS=	2700.	GAGE 43	STRESS=	-1730.	GAGE 73	STRESS=	30.
GAGE 14	STRESS=	1690.	GAGE 44	STRESS=	-6540.	GAGE 74	STRESS=	-30.
GAGE 15	STRESS=	-320.	GAGE 45	STRESS=	-4920.	GAGE 75	STRESS=	880.
GAGE 16	STRESS=	2430.	GAGE 46	STRESS=	-97510.	GAGE 76	STRESS=	260.
GAGE 17	STRESS=	-3550.	GAGE 47	STRESS=	8250.	GAGE 77	STRESS=	-70.
GAGE 18	STRESS=	-3470.	GAGE 48	STRESS=	5240.	GAGE 78	STRESS=	980.
GAGE 19	STRESS=	660.	GAGE 49	STRESS=	1050.	GAGE 79	STRESS=	-980.
GAGE 20	STRESS=	-1900.	GAGE 50	STRESS=	-1020.	GAGE 80	STRESS=	1540.
GAGE 21	STRESS=	-4360.	GAGE 51	STRESS=	-950.	GAGE 81	STRESS=	1410.
GAGE 22	STRESS=	1180.	GAGE 52	STRESS=	1120.	GAGE 82	STRESS=	-920.
GAGE 23	STRESS=	1610.	GAGE 53	STRESS=	240.	GAGE 83	STRESS=	-660.
GAGE 24	STRESS=	-740.	GAGE 54	STRESS=	-350.	GAGE 84	STRESS=	400.
GAGE 25	STRESS=	4360.	GAGE 55	STRESS=	6910.	GAGE 85	STRESS=	520.
GAGE 26	STRESS=	4220.	GAGE 56	STRESS=	3840.	GAGE 86	STRESS=	20.
GAGE 27	STRESS=	2340.	GAGE 57	STRESS=	-93510.	GAGE 87	STRESS=	770.
GAGE 28	STRESS=	3060.	GAGE 58	STRESS=	-6370.	GAGE 88	STRESS=	560.
GAGE 29	STRESS=	-6270.	GAGE 59	STRESS=	-960.	GAGE 89	STRESS=	-370.
GAGE 30	STRESS=	-5740.	GAGE 60	STRESS=	950.	GAGE 90	STRESS=	560.

LOAD = 140 POUNDS

BENDING

GAGE 91 STRESS=	2030.	GAGE 121 STRESS=	-730.	GAGE 151 STRESS=	1220.
GAGE 92 STRESS=	760.	GAGE 122 STRESS=	-6700.	GAGE 152 STRESS=	-400.
GAGE 93 STRESS=	3150.	GAGE 123 STRESS=	1890.	GAGE 153 STRESS=	700.
GAGE 94 STRESS=	1080.	GAGE 124 STRESS=	4820.	GAGE 154 STRESS=	1230.
GAGE 95 STRESS=	-1810.	GAGE 125 STRESS=	5730.	GAGE 155 STRESS=	-320.
GAGE 96 STRESS=	1320.	GAGE 126 STRESS=	10150.	GAGE 156 STRESS=	840.
GAGE 97 STRESS=	-970.	GAGE 127 STRESS=	4560.	GAGE 157 STRESS=	530.
GAGE 98 STRESS=	520.	GAGE 128 STRESS=	2380.	GAGE 158 STRESS=	-170.
GAGE 99 STRESS=	1470.	GAGE 129 STRESS=	2560.	GAGE 159 STRESS=	1500.
GAGE 100 STRESS=	140.	GAGE 130 STRESS=	2080.	GAGE 160 STRESS=	220.
GAGE 101 STRESS=	410.	GAGE 131 STRESS=	-3600.	GAGE 161 STRESS=	140.
GAGE 102 STRESS=	1750.	GAGE 132 STRESS=	3340.	GAGE 162 STRESS=	1380.
GAGE 103 STRESS=	780.	GAGE 133 STRESS=	480.	GAGE 163 STRESS=	1360.
GAGE 104 STRESS=	-260.	GAGE 134 STRESS=	620.	GAGE 164 STRESS=	-1560.
GAGE 105 STRESS=	280.	GAGE 135 STRESS=	-1050.	GAGE 165 STRESS=	-1380.
GAGE 106 STRESS=	800.	GAGE 136 STRESS=	50.	GAGE 166 STRESS=	1480.
GAGE 107 STRESS=	-290.	GAGE 137 STRESS=	-1010.	GAGE 167 STRESS=	640.
GAGE 108 STRESS=	180.	GAGE 138 STRESS=	-2170.	GAGE 168 STRESS=	270.
GAGE 109 STRESS=	1830.	GAGE 139 STRESS=	340.	GAGE 169 STRESS=	2170.
GAGE 110 STRESS=	-1660.	GAGE 140 STRESS=	-530.	GAGE 170 STRESS=	-110.
GAGE 111 STRESS=	800.	GAGE 141 STRESS=	230.	GAGE 171 STRESS=	1510.
GAGE 112 STRESS=	1590.	GAGE 142 STRESS=	1090.	GAGE 172 STRESS=	2020.
GAGE 113 STRESS=	760.	GAGE 143 STRESS=	-140.	GAGE 173 STRESS=	-1160.
GAGE 114 STRESS=	2150.	GAGE 144 STRESS=	390.	GAGE 174 STRESS=	790.
GAGE 115 STRESS=	550.	GAGE 145 STRESS=	740.	GAGE 175 STRESS=	-500.
GAGE 116 STRESS=	490.	GAGE 146 STRESS=	260.	GAGE 176 STRESS=	290.
GAGE 117 STRESS=	-540.	GAGE 147 STRESS=	-650.	GAGE 177 STRESS=	-350.
GAGE 118 STRESS=	450.	GAGE 148 STRESS=	390.	GAGE 178 STRESS=	-570.
GAGE 119 STRESS=	-810.	GAGE 149 STRESS=	-820.	GAGE 179 STRESS=	260.
GAGE 120 STRESS=	-1300.	GAGE 150 STRESS=	-1490.	GAGE 180 STRESS=	-320.

LOAD = 140 POUNDS BENDING

GAGE 181 STRESS=	-700.	GAGE 211 STRESS=	-800.	GAGE 241 STRESS=	-1300.
GAGE 182 STRESS=	450.	GAGE 212 STRESS=	180.	GAGE 242 STRESS=	290.
GAGE 183 STRESS=	250.	GAGE 213 STRESS=	-1100.	GAGE 243 STRESS=	-310.
GAGE 184 STRESS=	-1140.	GAGE 214 STRESS=	-20.	GAGE 244 STRESS=	-1200.
GAGE 185 STRESS=	270.	GAGE 215 STRESS=	850.	GAGE 245 STRESS=	970.
GAGE 186 STRESS=	-670.	GAGE 216 STRESS=	-1010.	GAGE 246 STRESS=	-290.
GAGE 187 STRESS=	1320.	GAGE 217 STRESS=	-710.	GAGE 247 STRESS=	910.
GAGE 188 STRESS=	-180.	GAGE 218 STRESS=	240.	GAGE 248 STRESS=	-480.
GAGE 189 STRESS=	310.	GAGE 219 STRESS=	-1710.	GAGE 249 STRESS=	890.
GAGE 190 STRESS=	1400.	GAGE 220 STRESS=	-990.	GAGE 250 STRESS=	-1240.
GAGE 191 STRESS=	-680.	GAGE 221 STRESS=	-810.	GAGE 251 STRESS=	230.
GAGE 192 STRESS=	-150.	GAGE 222 STRESS=	260.	GAGE 252 STRESS=	230.
GAGE 193 STRESS=	-620.	GAGE 223 STRESS=	-1810.	GAGE 253 STRESS=	-410.
GAGE 194 STRESS=	370.	GAGE 224 STRESS=	70.	GAGE 254 STRESS=	-120.
GAGE 195 STRESS=	140.	GAGE 225 STRESS=	-2240.	GAGE 255 STRESS=	-470.
GAGE 196 STRESS=	-650.	GAGE 226 STRESS=	-1070.	GAGE 256 STRESS=	-300.
GAGE 197 STRESS=	80.	GAGE 227 STRESS=	1140.	GAGE 257 STRESS=	390.
GAGE 198 STRESS=	-210.	GAGE 228 STRESS=	-780.	GAGE 258 STRESS=	-10.
GAGE 199 STRESS=	-280.	GAGE 229 STRESS=	-230.	GAGE 259 STRESS=	370.
GAGE 200 STRESS=	180.	GAGE 230 STRESS=	420.	GAGE 260 STRESS=	-1330.
GAGE 201 STRESS=	-830.	GAGE 231 STRESS=	-320.	GAGE 261 STRESS=	-430.
GAGE 202 STRESS=	-310.	GAGE 232 STRESS=	-280.	GAGE 262 STRESS=	-1010.
GAGE 203 STRESS=	70.	GAGE 233 STRESS=	30.	GAGE 263 STRESS=	730.
GAGE 204 STRESS=	-820.	GAGE 234 STRESS=	-670.	GAGE 264 STRESS=	-70.
GAGE 205 STRESS=	-1000.	GAGE 235 STRESS=	110.		
GAGE 206 STRESS=	-50.	GAGE 236 STRESS=	610.		
GAGE 207 STRESS=	-2000.	GAGE 237 STRESS=	1000.		
GAGE 208 STRESS=	-630.	GAGE 238 STRESS=	-840.		
GAGE 209 STRESS=	280.	GAGE 239 STRESS=	-450.		
GAGE 210 STRESS=	-780.	GAGE 240 STRESS=	-490.		

LINEAR STRAIN GAGES DATE 9-15 -75

LOAD = 140 POUNDS BENDING

GAGE 1 STRESS=	390.	GAGE 31 STRESS=	-460.	GAGE 61 STRESS=	1380.
GAGE 2 STRESS=	50.	GAGE 32 STRESS=	-570.	GAGE 62 STRESS=	1200.
GAGE 3 STRESS=	790.	GAGE 33 STRESS=	-660.	GAGE 63 STRESS=	2320.
GAGE 4 STRESS=	-1280.	GAGE 34 STRESS=	-540.	GAGE 64 STRESS=	1280.
GAGE 5 STRESS=	7970.	GAGE 35 STRESS=	-30.	GAGE 65 STRESS=	1310.
GAGE 6 STRESS=	-6510.	GAGE 36 STRESS=	-370.	GAGE 66 STRESS=	2300.
GAGE 7 STRESS=	1410.	GAGE 37 STRESS=	910.	GAGE 67 STRESS=	-150.
GAGE 8 STRESS=	2170.	GAGE 38 STRESS=	880.	GAGE 68 STRESS=	-100.
GAGE 9 STRESS=	-1250.	GAGE 39 STRESS=	880.	GAGE 69 STRESS=	-240.
GAGE 10 STRESS=	2390.	GAGE 40 STRESS=	2000.	GAGE 70 STRESS=	-3980.
GAGE 11 STRESS=	-110.	GAGE 41 STRESS=	1970.	GAGE 71 STRESS=	1120.
GAGE 12 STRESS=	380.	GAGE 42 STRESS=	1090.	GAGE 72 STRESS=	1570.
GAGE 13 STRESS=	770.	GAGE 43 STRESS=	420.	GAGE 73 STRESS=	-3290.
GAGE 14 STRESS=	3140.	GAGE 44 STRESS=	100.	GAGE 74 STRESS=	-1070.
GAGE 15 STRESS=	-130.	GAGE 45 STRESS=	390.	GAGE 75 STRESS=	-2500.
GAGE 16 STRESS=	-360.	GAGE 46 STRESS=	1570.	GAGE 76 STRESS=	-3220.
GAGE 17 STRESS=	270.	GAGE 47 STRESS=	1640.	GAGE 77 STRESS=	-3750.
GAGE 18 STRESS=	1000.	GAGE 48 STRESS=	1470.	GAGE 78 STRESS=	-680.
GAGE 19 STRESS=	1100.	GAGE 49 STRESS=	130.	GAGE 79 STRESS=	-1090.
GAGE 20 STRESS=	1560.	GAGE 50 STRESS=	60.	GAGE 80 STRESS=	-730.
GAGE 21 STRESS=	1100.	GAGE 51 STRESS=	50.	GAGE 81 STRESS=	-3950.
GAGE 22 STRESS=	440.	GAGE 52 STRESS=	490.	GAGE 82 STRESS=	-1460.
GAGE 23 STRESS=	-50.	GAGE 53 STRESS=	610.	GAGE 83 STRESS=	-840.
GAGE 24 STRESS=	-99630.	GAGE 54 STRESS=	440.	GAGE 84 STRESS=	-6490.
GAGE 25 STRESS=	1060.	GAGE 55 STRESS=	710.	GAGE 85 STRESS=	1300.
GAGE 26 STRESS=	910.	GAGE 56 STRESS=	770.	GAGE 86 STRESS=	980.
GAGE 27 STRESS=	1200.	GAGE 57 STRESS=	700.	GAGE 87 STRESS=	110.
GAGE 28 STRESS=	430.	GAGE 58 STRESS=	1190.	GAGE 88 STRESS=	-100.
GAGE 29 STRESS=	530.	GAGE 59 STRESS=	1160.	GAGE 89 STRESS=	2970.
GAGE 30 STRESS=	-1550.	GAGE 60 STRESS=	1180.	GAGE 90 STRESS=	-1780.

LOAD = 140 POUNDS

BENDING

GAGE 91 STRESS=	-2690.	GAGE 121 STRESS=	-1220.	GAGE 151 STRESS=	2030.
GAGE 92 STRESS=	-760.	GAGE 122 STRESS=	120.	GAGE 152 STRESS=	2220.
GAGE 93 STRESS=	180.	GAGE 123 STRESS=	50.	GAGE 153 STRESS=	2030.
GAGE 94 STRESS=	290.	GAGE 124 STRESS=	170.	GAGE 154 STRESS=	780.
GAGE 95 STRESS=	390.	GAGE 125 STRESS=	-260.	GAGE 155 STRESS=	400.
GAGE 96 STRESS=	100.	GAGE 126 STRESS=	-2030.	GAGE 156 STRESS=	-670.
GAGE 97 STRESS=	-40.	GAGE 127 STRESS=	-4580.	GAGE 157 STRESS=	510.
GAGE 98 STRESS=	2730.	GAGE 128 STRESS=	-1180.	GAGE 158 STRESS=	580.
GAGE 99 STRESS=	2010.	GAGE 129 STRESS=	-1030.	GAGE 159 STRESS=	420.
GAGE 100 STRESS=	2680.	GAGE 130 STRESS=	-100.	GAGE 160 STRESS=	-1620.
GAGE 101 STRESS=	230.	GAGE 131 STRESS=	-190.	GAGE 161 STRESS=	-570.
GAGE 102 STRESS=	10.	GAGE 132 STRESS=	-210.	GAGE 162 STRESS=	-940.
GAGE 103 STRESS=	780.	GAGE 133 STRESS=	-30.	GAGE 163 STRESS=	1990.
GAGE 104 STRESS=	60.	GAGE 134 STRESS=	70.	GAGE 164 STRESS=	1250.
GAGE 105 STRESS=	90.	GAGE 135 STRESS=	-180.	GAGE 165 STRESS=	1750.
GAGE 106 STRESS=	-2690.	GAGE 136 STRESS=	140.	GAGE 166 STRESS=	-340.
GAGE 107 STRESS=	-1240.	GAGE 137 STRESS=	-100.	GAGE 167 STRESS=	-540.
GAGE 108 STRESS=	-2300.	GAGE 138 STRESS=	840.	GAGE 168 STRESS=	540.
GAGE 109 STRESS=	1250.	GAGE 139 STRESS=	480.	GAGE 169 STRESS=	1330.
GAGE 110 STRESS=	-6360.	GAGE 140 STRESS=	-1420.	GAGE 170 STRESS=	1510.
GAGE 111 STRESS=	-1860.	GAGE 141 STRESS=	-1910.	GAGE 171 STRESS=	1460.
GAGE 112 STRESS=	-6120.	GAGE 142 STRESS=	-670.	GAGE 172 STRESS=	-1830.
GAGE 113 STRESS=	-360.	GAGE 143 STRESS=	-1760.	GAGE 173 STRESS=	-120.
GAGE 114 STRESS=	60.	GAGE 144 STRESS=	1960.	GAGE 174 STRESS=	350.
GAGE 115 STRESS=	-150.	GAGE 145 STRESS=	2180.	GAGE 175 STRESS=	-2840.
GAGE 116 STRESS=	-110.	GAGE 146 STRESS=	2430.	GAGE 176 STRESS=	-650.
GAGE 117 STRESS=	-160.	GAGE 147 STRESS=	-1960.	GAGE 177 STRESS=	120.
GAGE 118 STRESS=	-3300.	GAGE 148 STRESS=	-610.	GAGE 178 STRESS=	2690.
GAGE 119 STRESS=	-2440.	GAGE 149 STRESS=	-2100.	GAGE 179 STRESS=	-2070.
GAGE 120 STRESS=	-7040.	GAGE 150 STRESS=	-10.	GAGE 180 STRESS=	540.

LINEAR STRAIN GAGES DATE 9-15 -75

LOAD = 140 POUNDS BENDING

GAGE 181 STRESS=	130.	GAGE 211 STRESS=	230.	GAGE 241 STRESS=	-2340.
GAGE 182 STRESS=	120.	GAGE 212 STRESS=	90.	GAGE 242 STRESS=	50.
GAGE 183 STRESS=	-550.	GAGE 213 STRESS=	-1710.	GAGE 243 STRESS=	1140.
GAGE 184 STRESS=	-240.	GAGE 214 STRESS=	30.	GAGE 244 STRESS=	750.
GAGE 185 STRESS=	-100.	GAGE 215 STRESS=	-1750.	GAGE 245 STRESS=	-120.
GAGE 186 STRESS=	-130.	GAGE 216 STRESS=	-1310.	GAGE 246 STRESS=	-1880.
GAGE 187 STRESS=	-880.	GAGE 217 STRESS=	-1400.	GAGE 247 STRESS=	-1410.
GAGE 188 STRESS=	190.	GAGE 218 STRESS=	-670.	GAGE 248 STRESS=	-1360.
GAGE 189 STRESS=	-1530.	GAGE 219 STRESS=	-1660.	GAGE 249 STRESS=	-1420.
GAGE 190 STRESS=	-940.	GAGE 220 STRESS=	660.	GAGE 250 STRESS=	-1320.
GAGE 191 STRESS=	-840.	GAGE 221 STRESS=	4190.	GAGE 251 STRESS=	-2590.
GAGE 192 STRESS=	-860.	GAGE 222 STRESS=	-1280.	GAGE 252 STRESS=	-1270.
GAGE 193 STRESS=	-1060.	GAGE 223 STRESS=	740.	GAGE 253 STRESS=	-900.
GAGE 194 STRESS=	-1290.	GAGE 224 STRESS=	220.	GAGE 254 STRESS=	-1170.
GAGE 195 STRESS=	-1800.	GAGE 225 STRESS=	1040.	GAGE 255 STRESS=	820.
GAGE 196 STRESS=	-1520.	GAGE 226 STRESS=	890.	GAGE 256 STRESS=	90.
GAGE 197 STRESS=	-1050.	GAGE 227 STRESS=	1040.	GAGE 257 STRESS=	1110.
GAGE 198 STRESS=	260.	GAGE 228 STRESS=	210.	GAGE 258 STRESS=	-2320.
GAGE 199 STRESS=	30.	GAGE 229 STRESS=	990.	GAGE 259 STRESS=	-2270.
GAGE 200 STRESS=	-30.	GAGE 230 STRESS=	640.	GAGE 260 STRESS=	900.
GAGE 201 STRESS=	120.	GAGE 231 STRESS=	30.	GAGE 261 STRESS=	150.
GAGE 202 STRESS=	-310.	GAGE 232 STRESS=	-860.	GAGE 262 STRESS=	80.
GAGE 203 STRESS=	190.	GAGE 233 STRESS=	-390.	GAGE 263 STRESS=	-2660.
GAGE 204 STRESS=	-90.	GAGE 234 STRESS=	-1020.	GAGE 264 STRESS=	760.
GAGE 205 STRESS=	160.	GAGE 235 STRESS=	-170.	GAGE 265 STRESS=	-2890.
GAGE 206 STRESS=	-440.	GAGE 236 STRESS=	320.	GAGE 266 STRESS=	150.
GAGE 207 STRESS=	60.	GAGE 237 STRESS=	460.	GAGE 267 STRESS=	-3660.
GAGE 208 STRESS=	810.	GAGE 238 STRESS=	-400.	GAGE 268 STRESS=	-3400.
GAGE 209 STRESS=	540.	GAGE 239 STRESS=	-2810.	GAGE 269 STRESS=	610.
GAGE 210 STRESS=	220.	GAGE 240 STRESS=	-1990.	GAGE 270 STRESS=	-1020.

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LOAD = 140 POUNDS BENDING

GAGE 271 STRESS= -1130.

GAGE 272 STRESS= -680.

GAGE 273 STRESS= 200.

GAGE 274 STRESS= 310.

GAGE 275 STRESS= -780.

GAGE 276 STRESS= -810.

GAGE 277 STRESS= -840.

GAGE 278 STRESS= 910.

GAGE 279 STRESS= -220.

GAGE 280 STRESS= -4120.

GAGE 281 STRESS= -4420.

GAGE 282 STRESS= 3840.

GAGE 283 STRESS= 5857.

LOAD = 90 POUNDS

BENDING

GAGE 1	STRESS=	580.	GAGE 31	STRESS=	3990.	GAGE 61	STRESS=	-820.
GAGE 2	STRESS=	2250.	GAGE 32	STRESS=	-95050.	GAGE 62	STRESS=	190.
GAGE 3	STRESS=	2950.	GAGE 33	STRESS=	4190.	GAGE 63	STRESS=	70.
GAGE 4	STRESS=	-200.	GAGE 34	STRESS=	-2370.	GAGE 64	STRESS=	-320.
GAGE 5	STRESS=	-2140.	GAGE 35	STRESS=	-3940.	GAGE 65	STRESS=	90.
GAGE 6	STRESS=	930.	GAGE 36	STRESS=	1700.	GAGE 66	STRESS=	-1170.
GAGE 7	STRESS=	770.	GAGE 37	STRESS=	650.	GAGE 67	STRESS=	-20.
GAGE 8	STRESS=	310.	GAGE 38	STRESS=	-80.	GAGE 68	STRESS=	330.
GAGE 9	STRESS=	1760.	GAGE 39	STRESS=	-180.	GAGE 69	STRESS=	850.
GAGE 10	STRESS=	620.	GAGE 40	STRESS=	900.	GAGE 70	STRESS=	-100.
GAGE 11	STRESS=	-640.	GAGE 41	STRESS=	-530.	GAGE 71	STRESS=	-310.
GAGE 12	STRESS=	1350.	GAGE 42	STRESS=	-320.	GAGE 72	STRESS=	560.
GAGE 13	STRESS=	1680.	GAGE 43	STRESS=	-3130.	GAGE 73	STRESS=	10.
GAGE 14	STRESS=	1350.	GAGE 44	STRESS=	-6430.	GAGE 74	STRESS=	-10.
GAGE 15	STRESS=	-120.	GAGE 45	STRESS=	-5760.	GAGE 75	STRESS=	550.
GAGE 16	STRESS=	1460.	GAGE 46	STRESS=	-96500.	GAGE 76	STRESS=	170.
GAGE 17	STRESS=	-2580.	GAGE 47	STRESS=	7000.	GAGE 77	STRESS=	-60.
GAGE 18	STRESS=	-2460.	GAGE 48	STRESS=	3790.	GAGE 78	STRESS=	610.
GAGE 19	STRESS=	410.	GAGE 49	STRESS=	650.	GAGE 79	STRESS=	-390.
GAGE 20	STRESS=	-660.	GAGE 50	STRESS=	-640.	GAGE 80	STRESS=	1230.
GAGE 21	STRESS=	-2390.	GAGE 51	STRESS=	-570.	GAGE 81	STRESS=	990.
GAGE 22	STRESS=	630.	GAGE 52	STRESS=	700.	GAGE 82	STRESS=	-580.
GAGE 23	STRESS=	570.	GAGE 53	STRESS=	150.	GAGE 83	STRESS=	-790.
GAGE 24	STRESS=	-870.	GAGE 54	STRESS=	-220.	GAGE 84	STRESS=	-130.
GAGE 25	STRESS=	2500.	GAGE 55	STRESS=	4200.	GAGE 85	STRESS=	340.
GAGE 26	STRESS=	3030.	GAGE 56	STRESS=	3910.	GAGE 86	STRESS=	10.
GAGE 27	STRESS=	1380.	GAGE 57	STRESS=	-95260.	GAGE 87	STRESS=	490.
GAGE 28	STRESS=	1560.	GAGE 58	STRESS=	-3920.	GAGE 88	STRESS=	360.
GAGE 29	STRESS=	-4260.	GAGE 59	STRESS=	-1010.	GAGE 89	STRESS=	-240.
GAGE 30	STRESS=	-4000.	GAGE 60	STRESS=	840.	GAGE 90	STRESS=	360.

LOAD = 90 POUNDS BENDING

GAGE 91 STRESS=	1270.	GAGE 121 STRESS=	-760.	GAGE 151 STRESS=	780.
GAGE 92 STRESS=	510.	GAGE 122 STRESS=	-4780.	GAGE 152 STRESS=	-250.
GAGE 93 STRESS=	2030.	GAGE 123 STRESS=	880.	GAGE 153 STRESS=	460.
GAGE 94 STRESS=	690.	GAGE 124 STRESS=	2210.	GAGE 154 STRESS=	780.
GAGE 95 STRESS=	-1210.	GAGE 125 STRESS=	5270.	GAGE 155 STRESS=	-200.
GAGE 96 STRESS=	750.	GAGE 126 STRESS=	7160.	GAGE 156 STRESS=	540.
GAGE 97 STRESS=	-590.	GAGE 127 STRESS=	3680.	GAGE 157 STRESS=	350.
GAGE 98 STRESS=	340.	GAGE 128 STRESS=	3250.	GAGE 158 STRESS=	-50.
GAGE 99 STRESS=	940.	GAGE 129 STRESS=	2420.	GAGE 159 STRESS=	980.
GAGE 100 STRESS=	60.	GAGE 130 STRESS=	1690.	GAGE 160 STRESS=	130.
GAGE 101 STRESS=	230.	GAGE 131 STRESS=	-3080.	GAGE 161 STRESS=	40.
GAGE 102 STRESS=	1070.	GAGE 132 STRESS=	2200.	GAGE 162 STRESS=	850.
GAGE 103 STRESS=	480.	GAGE 133 STRESS=	330.	GAGE 163 STRESS=	870.
GAGE 104 STRESS=	-160.	GAGE 134 STRESS=	410.	GAGE 164 STRESS=	-940.
GAGE 105 STRESS=	170.	GAGE 135 STRESS=	-620.	GAGE 165 STRESS=	-840.
GAGE 106 STRESS=	500.	GAGE 136 STRESS=	-60.	GAGE 166 STRESS=	940.
GAGE 107 STRESS=	-170.	GAGE 137 STRESS=	-640.	GAGE 167 STRESS=	370.
GAGE 108 STRESS=	100.	GAGE 138 STRESS=	-1380.	GAGE 168 STRESS=	120.
GAGE 109 STRESS=	1140.	GAGE 139 STRESS=	130.	GAGE 169 STRESS=	1360.
GAGE 110 STRESS=	-1050.	GAGE 140 STRESS=	-340.	GAGE 170 STRESS=	-60.
GAGE 111 STRESS=	480.	GAGE 141 STRESS=	140.	GAGE 171 STRESS=	930.
GAGE 112 STRESS=	1000.	GAGE 142 STRESS=	700.	GAGE 172 STRESS=	1260.
GAGE 113 STRESS=	480.	GAGE 143 STRESS=	-90.	GAGE 173 STRESS=	-730.
GAGE 114 STRESS=	1330.	GAGE 144 STRESS=	250.	GAGE 174 STRESS=	480.
GAGE 115 STRESS=	340.	GAGE 145 STRESS=	460.	GAGE 175 STRESS=	-360.
GAGE 116 STRESS=	290.	GAGE 146 STRESS=	170.	GAGE 176 STRESS=	230.
GAGE 117 STRESS=	-340.	GAGE 147 STRESS=	-390.	GAGE 177 STRESS=	-230.
GAGE 118 STRESS=	280.	GAGE 148 STRESS=	240.	GAGE 178 STRESS=	-420.
GAGE 119 STRESS=	-500.	GAGE 149 STRESS=	-510.	GAGE 179 STRESS=	180.
GAGE 120 STRESS=	-780.	GAGE 150 STRESS=	-910.	GAGE 180 STRESS=	-230.

LOAD = 90 POUNDS BENDING

GAGE 181 STRESS=	-470.	GAGE 211 STRESS=	-460.	GAGE 241 STRESS=	-870.
GAGE 182 STRESS=	280.	GAGE 212 STRESS=	110.	GAGE 242 STRESS=	140.
GAGE 183 STRESS=	140.	GAGE 213 STRESS=	-680.	GAGE 243 STRESS=	-250.
GAGE 184 STRESS=	-700.	GAGE 214 STRESS=	0.	GAGE 244 STRESS=	-730.
GAGE 185 STRESS=	220.	GAGE 215 STRESS=	550.	GAGE 245 STRESS=	650.
GAGE 186 STRESS=	-370.	GAGE 216 STRESS=	-650.	GAGE 246 STRESS=	-130.
GAGE 187 STRESS=	850.	GAGE 217 STRESS=	-460.	GAGE 247 STRESS=	500.
GAGE 188 STRESS=	-100.	GAGE 218 STRESS=	170.	GAGE 248 STRESS=	-540.
GAGE 189 STRESS=	190.	GAGE 219 STRESS=	-1090.	GAGE 249 STRESS=	350.
GAGE 190 STRESS=	900.	GAGE 220 STRESS=	-660.	GAGE 250 STRESS=	-760.
GAGE 191 STRESS=	-440.	GAGE 221 STRESS=	-470.	GAGE 251 STRESS=	320.
GAGE 192 STRESS=	-90.	GAGE 222 STRESS=	200.	GAGE 252 STRESS=	190.
GAGE 193 STRESS=	-400.	GAGE 223 STRESS=	-1080.	GAGE 253 STRESS=	-270.
GAGE 194 STRESS=	-250.	GAGE 224 STRESS=	0.	GAGE 254 STRESS=	-30.
GAGE 195 STRESS=	90.	GAGE 225 STRESS=	-1420.	GAGE 255 STRESS=	-320.
GAGE 196 STRESS=	-400.	GAGE 226 STRESS=	-630.	GAGE 256 STRESS=	-220.
GAGE 197 STRESS=	40.	GAGE 227 STRESS=	690.	GAGE 257 STRESS=	270.
GAGE 198 STRESS=	-90.	GAGE 228 STRESS=	-500.	GAGE 258 STRESS=	-20.
GAGE 199 STRESS=	-210.	GAGE 229 STRESS=	-170.	GAGE 259 STRESS=	280.
GAGE 200 STRESS=	110.	GAGE 230 STRESS=	220.	GAGE 260 STRESS=	-820.
GAGE 201 STRESS=	-550.	GAGE 231 STRESS=	-210.	GAGE 261 STRESS=	-220.
GAGE 202 STRESS=	-250.	GAGE 232 STRESS=	-210.	GAGE 262 STRESS=	-630.
GAGE 203 STRESS=	60.	GAGE 233 STRESS=	60.	GAGE 263 STRESS=	460.
GAGE 204 STRESS=	-520.	GAGE 234 STRESS=	-390.	GAGE 264 STRESS=	-40.
GAGE 205 STRESS=	-780.	GAGE 235 STRESS=	180.		
GAGE 206 STRESS=	20.	GAGE 236 STRESS=	840.		
GAGE 207 STRESS=	-1280.	GAGE 237 STRESS=	950.		
GAGE 208 STRESS=	-400.	GAGE 238 STRESS=	-1030.		
GAGE 209 STRESS=	180.	GAGE 239 STRESS=	-450.		
GAGE 210 STRESS=	-490.	GAGE 240 STRESS=	-730.		

LINEAR STRAIN GAGES

DATE 9-15 -75

LOAD = 90 POUNDS

TORQUE

GAGE 1 STRESS=	30.	GAGE 31 STRESS=	-20.	GAGE 61 STRESS=	-70.
GAGE 2 STRESS=	-30.	GAGE 32 STRESS=	0.	GAGE 62 STRESS=	-40.
GAGE 3 STRESS=	40.	GAGE 33 STRESS=	-30.	GAGE 63 STRESS=	-10.
GAGE 4 STRESS=	-130.	GAGE 34 STRESS=	-50.	GAGE 64 STRESS=	0.
GAGE 5 STRESS=	-90.	GAGE 35 STRESS=	10.	GAGE 65 STRESS=	-30.
GAGE 6 STRESS=	-160.	GAGE 36 STRESS=	-20.	GAGE 66 STRESS=	30.
GAGE 7 STRESS=	-90.	GAGE 37 STRESS=	40.	GAGE 67 STRESS=	-120.
GAGE 8 STRESS=	-90.	GAGE 38 STRESS=	10.	GAGE 68 STRESS=	-130.
GAGE 9 STRESS=	-70.	GAGE 39 STRESS=	30.	GAGE 69 STRESS=	-160.
GAGE 10 STRESS=	-50.	GAGE 40 STRESS=	110.	GAGE 70 STRESS=	-230.
GAGE 11 STRESS=	-70.	GAGE 41 STRESS=	80.	GAGE 71 STRESS=	30.
GAGE 12 STRESS=	-80.	GAGE 42 STRESS=	30.	GAGE 72 STRESS=	-50.
GAGE 13 STRESS=	-10.	GAGE 43 STRESS=	-50.	GAGE 73 STRESS=	-140.
GAGE 14 STRESS=	20.	GAGE 44 STRESS=	-10.	GAGE 74 STRESS=	-120.
GAGE 15 STRESS=	-10.	GAGE 45 STRESS=	-40.	GAGE 75 STRESS=	-130.
GAGE 16 STRESS=	-30.	GAGE 46 STRESS=	60.	GAGE 76 STRESS=	-170.
GAGE 17 STRESS=	20.	GAGE 47 STRESS=	70.	GAGE 77 STRESS=	-190.
GAGE 18 STRESS=	30.	GAGE 48 STRESS=	70.	GAGE 78 STRESS=	-60.
GAGE 19 STRESS=	-20.	GAGE 49 STRESS=	40.	GAGE 79 STRESS=	-40.
GAGE 20 STRESS=	670.	GAGE 50 STRESS=	70.	GAGE 80 STRESS=	-60.
GAGE 21 STRESS=	-10.	GAGE 51 STRESS=	40.	GAGE 81 STRESS=	-150.
GAGE 22 STRESS=	-40.	GAGE 52 STRESS=	-30.	GAGE 82 STRESS=	0.
GAGE 23 STRESS=	-20.	GAGE 53 STRESS=	20.	GAGE 83 STRESS=	40.
GAGE 24 STRESS=	-30.	GAGE 54 STRESS=	10.	GAGE 84 STRESS=	-390.
GAGE 25 STRESS=	-40.	GAGE 55 STRESS=	120.	GAGE 85 STRESS=	40.
GAGE 26 STRESS=	-40.	GAGE 56 STRESS=	130.	GAGE 86 STRESS=	80.
GAGE 27 STRESS=	-30.	GAGE 57 STRESS=	130.	GAGE 87 STRESS=	-30.
GAGE 28 STRESS=	-60.	GAGE 58 STRESS=	40.	GAGE 88 STRESS=	-20.
GAGE 29 STRESS=	-10.	GAGE 59 STRESS=	10.	GAGE 89 STRESS=	90.
GAGE 30 STRESS=	-116780.	GAGE 60 STRESS=	0.	GAGE 90 STRESS=	-110.

LINEAR STRAIN GAGES

DATE 9-15 -75

LOAD = 90 POUNDS

TORQUE

GAGE 91 STRESS=	-130.	GAGE 121 STRESS=	-30.	GAGE 151 STRESS=	80.
GAGE 92 STRESS=	-40.	GAGE 122 STRESS=	-70.	GAGE 152 STRESS=	30.
GAGE 93 STRESS=	-70.	GAGE 123 STRESS=	-70.	GAGE 153 STRESS=	90.
GAGE 94 STRESS=	-80.	GAGE 124 STRESS=	-80.	GAGE 154 STRESS=	20.
GAGE 95 STRESS=	-130.	GAGE 125 STRESS=	10.	GAGE 155 STRESS=	40.
GAGE 96 STRESS=	-100.	GAGE 126 STRESS=	-160.	GAGE 156 STRESS=	10.
GAGE 97 STRESS=	-10.	GAGE 127 STRESS=	-190.	GAGE 157 STRESS=	10.
GAGE 98 STRESS=	90.	GAGE 128 STRESS=	-120.	GAGE 158 STRESS=	20.
GAGE 99 STRESS=	90.	GAGE 129 STRESS=	-80.	GAGE 159 STRESS=	20.
GAGE 100 STRESS=	90.	GAGE 130 STRESS=	-50.	GAGE 160 STRESS=	10.
GAGE 101 STRESS=	-20.	GAGE 131 STRESS=	-10.	GAGE 161 STRESS=	10.
GAGE 102 STRESS=	-390.	GAGE 132 STRESS=	-30.	GAGE 162 STRESS=	-120.
GAGE 103 STRESS=	400.	GAGE 133 STRESS=	-60.	GAGE 163 STRESS=	-10.
GAGE 104 STRESS=	-40.	GAGE 134 STRESS=	-20.	GAGE 164 STRESS=	80.
GAGE 105 STRESS=	-60.	GAGE 135 STRESS=	-20.	GAGE 165 STRESS=	30.
GAGE 106 STRESS=	-40.	GAGE 136 STRESS=	40.	GAGE 166 STRESS=	50.
GAGE 107 STRESS=	-30.	GAGE 137 STRESS=	0.	GAGE 167 STRESS=	-10.
GAGE 108 STRESS=	-20.	GAGE 138 STRESS=	0.	GAGE 168 STRESS=	-210.
GAGE 109 STRESS=	20.	GAGE 139 STRESS=	10.	GAGE 169 STRESS=	70.
GAGE 110 STRESS=	-250.	GAGE 140 STRESS=	-100.	GAGE 170 STRESS=	100.
GAGE 111 STRESS=	-130.	GAGE 141 STRESS=	-100.	GAGE 171 STRESS=	90.
GAGE 112 STRESS=	-270.	GAGE 142 STRESS=	-90.	GAGE 172 STRESS=	-60.
GAGE 113 STRESS=	-40.	GAGE 143 STRESS=	-120.	GAGE 173 STRESS=	-10.
GAGE 114 STRESS=	10.	GAGE 144 STRESS=	90.	GAGE 174 STRESS=	-60.
GAGE 115 STRESS=	0.	GAGE 145 STRESS=	30.	GAGE 175 STRESS=	-60.
GAGE 116 STRESS=	0.	GAGE 146 STRESS=	-20.	GAGE 176 STRESS=	-50.
GAGE 117 STRESS=	-110.	GAGE 147 STRESS=	-110.	GAGE 177 STRESS=	-50.
GAGE 118 STRESS=	-150.	GAGE 148 STRESS=	-40.	GAGE 178 STRESS=	-10.
GAGE 119 STRESS=	-70.	GAGE 149 STRESS=	-100.	GAGE 179 STRESS=	20.
GAGE 120 STRESS=	-340.	GAGE 150 STRESS=	10.	GAGE 180 STRESS=	-40.

LOAD = 90 POUNDS

TORQUE

GAGE 181 STRESS=	-60.	GAGE 211 STRESS=	20.	GAGE 241 STRESS=	-120.
GAGE 182 STRESS=	-30.	GAGE 212 STRESS=	-50.	GAGE 242 STRESS=	80.
GAGE 183 STRESS=	10.	GAGE 213 STRESS=	-60.	GAGE 243 STRESS=	20.
GAGE 184 STRESS=	-10.	GAGE 214 STRESS=	-10.	GAGE 244 STRESS=	-60.
GAGE 185 STRESS=	0.	GAGE 215 STRESS=	-60.	GAGE 245 STRESS=	-40.
GAGE 186 STRESS=	-50.	GAGE 216 STRESS=	-70.	GAGE 246 STRESS=	-100.
GAGE 187 STRESS=	-10.	GAGE 217 STRESS=	-120.	GAGE 247 STRESS=	-80.
GAGE 188 STRESS=	30.	GAGE 218 STRESS=	-120.	GAGE 248 STRESS=	-100.
GAGE 189 STRESS=	20.	GAGE 219 STRESS=	-150.	GAGE 249 STRESS=	-90.
GAGE 190 STRESS=	-80.	GAGE 220 STRESS=	20.	GAGE 250 STRESS=	-70.
GAGE 191 STRESS=	-20.	GAGE 221 STRESS=	120.	GAGE 251 STRESS=	-170.
GAGE 192 STRESS=	-120.	GAGE 222 STRESS=	-80.	GAGE 252 STRESS=	-80.
GAGE 193 STRESS=	-70.	GAGE 223 STRESS=	-80.	GAGE 253 STRESS=	-70.
GAGE 194 STRESS=	-40.	GAGE 224 STRESS=	-20.	GAGE 254 STRESS=	-100.
GAGE 195 STRESS=	40.	GAGE 225 STRESS=	-70.	GAGE 255 STRESS=	70.
GAGE 196 STRESS=	-10.	GAGE 226 STRESS=	-60.	GAGE 256 STRESS=	-30.
GAGE 197 STRESS=	-10.	GAGE 227 STRESS=	20.	GAGE 257 STRESS=	130.
GAGE 198 STRESS=	-20.	GAGE 228 STRESS=	-30.	GAGE 258 STRESS=	-120.
GAGE 199 STRESS=	10.	GAGE 229 STRESS=	20.	GAGE 259 STRESS=	-130.
GAGE 200 STRESS=	-20.	GAGE 230 STRESS=	0.	GAGE 260 STRESS=	0.
GAGE 201 STRESS=	-50.	GAGE 231 STRESS=	-40.	GAGE 261 STRESS=	-20.
GAGE 202 STRESS=	-50.	GAGE 232 STRESS=	-40.	GAGE 262 STRESS=	0.
GAGE 203 STRESS=	-40.	GAGE 233 STRESS=	-40.	GAGE 263 STRESS=	-80.
GAGE 204 STRESS=	-40.	GAGE 234 STRESS=	-40.	GAGE 264 STRESS=	40.
GAGE 205 STRESS=	-20.	GAGE 235 STRESS=	-10.	GAGE 265 STRESS=	-110.
GAGE 206 STRESS=	-90.	GAGE 236 STRESS=	-20.	GAGE 266 STRESS=	10.
GAGE 207 STRESS=	-10.	GAGE 237 STRESS=	-20.	GAGE 267 STRESS=	-80.
GAGE 208 STRESS=	50.	GAGE 238 STRESS=	-30.	GAGE 268 STRESS=	-40.
GAGE 209 STRESS=	30.	GAGE 239 STRESS=	-190.	GAGE 269 STRESS=	-30.
GAGE 210 STRESS=	-40.	GAGE 240 STRESS=	-120.	GAGE 270 STRESS=	-9510.

LINEAR STRAIN GAGES

DATE 9-15 -75

LOAD = 90 POUNDS

TORQUE

GAGE 271 STRESS= -140.

GAGE 272 STRESS= -30.

GAGE 273 STRESS= -30.

GAGE 274 STRESS= -70.

GAGE 275 STRESS= -40.

GAGE 276 STRESS= 0.

GAGE 277 STRESS= -40.

GAGE 278 STRESS= 30.

GAGE 279 STRESS= -40.

GAGE 280 STRESS= -170.

GAGE 281 STRESS= -60.

GAGE 282 STRESS= 80.

GAGE 283 STRESS= 5819.

LOAD = 90 POUNDS

TORQUE

GAGE 1	STRESS=	0.	GAGE 31	STRESS=	-60.	GAGE 61	STRESS=	-10.
GAGE 2	STRESS=	-40.	GAGE 32	STRESS=	-160.	GAGE 62	STRESS=	-10.
GAGE 3	STRESS=	-10.	GAGE 33	STRESS=	0.	GAGE 63	STRESS=	-10.
GAGE 4	STRESS=	20.	GAGE 34	STRESS=	-20.	GAGE 64	STRESS=	0.
GAGE 5	STRESS=	60.	GAGE 35	STRESS=	150.	GAGE 65	STRESS=	30.
GAGE 6	STRESS=	70.	GAGE 36	STRESS=	230.	GAGE 66	STRESS=	0.
GAGE 7	STRESS=	30.	GAGE 37	STRESS=	10.	GAGE 67	STRESS=	-60.
GAGE 8	STRESS=	-10.	GAGE 38	STRESS=	10.	GAGE 68	STRESS=	90.
GAGE 9	STRESS=	-60.	GAGE 39	STRESS=	0.	GAGE 69	STRESS=	100.
GAGE 10	STRESS=	50.	GAGE 40	STRESS=	20.	GAGE 70	STRESS=	-90.
GAGE 11	STRESS=	-10.	GAGE 41	STRESS=	10.	GAGE 71	STRESS=	-20.
GAGE 12	STRESS=	-50.	GAGE 42	STRESS=	0.	GAGE 72	STRESS=	30.
GAGE 13	STRESS=	100.	GAGE 43	STRESS=	-170.	GAGE 73	STRESS=	50.
GAGE 14	STRESS=	250.	GAGE 44	STRESS=	-90.	GAGE 74	STRESS=	-10.
GAGE 15	STRESS=	-50.	GAGE 45	STRESS=	-100.	GAGE 75	STRESS=	110.
GAGE 16	STRESS=	60.	GAGE 46	STRESS=	-100.	GAGE 76	STRESS=	60.
GAGE 17	STRESS=	-330.	GAGE 47	STRESS=	170.	GAGE 77	STRESS=	-10.
GAGE 18	STRESS=	-440.	GAGE 48	STRESS=	110.	GAGE 78	STRESS=	140.
GAGE 19	STRESS=	-40.	GAGE 49	STRESS=	0.	GAGE 79	STRESS=	0.
GAGE 20	STRESS=	0.	GAGE 50	STRESS=	0.	GAGE 80	STRESS=	-10.
GAGE 21	STRESS=	-300.	GAGE 51	STRESS=	0.	GAGE 81	STRESS=	-40.
GAGE 22	STRESS=	-40.	GAGE 52	STRESS=	20.	GAGE 82	STRESS=	-30.
GAGE 23	STRESS=	110.	GAGE 53	STRESS=	20.	GAGE 83	STRESS=	20.
GAGE 24	STRESS=	-170.	GAGE 54	STRESS=	10.	GAGE 84	STRESS=	-40.
GAGE 25	STRESS=	60.	GAGE 55	STRESS=	-470.	GAGE 85	STRESS=	170.
GAGE 26	STRESS=	120.	GAGE 56	STRESS=	-110.	GAGE 86	STRESS=	-30.
GAGE 27	STRESS=	-20.	GAGE 57	STRESS=	-180.	GAGE 87	STRESS=	260.
GAGE 28	STRESS=	10.	GAGE 58	STRESS=	190.	GAGE 88	STRESS=	180.
GAGE 29	STRESS=	-180.	GAGE 59	STRESS=	210.	GAGE 89	STRESS=	-60.
GAGE 30	STRESS=	-240.	GAGE 60	STRESS=	330.	GAGE 90	STRESS=	230.

LOAD = .90 POUNDS

TORQUE

GAGE 91 STRESS=	130.	GAGE 121 STRESS=	-80.	GAGE 151 STRESS=	60.
GAGE 92 STRESS=	-10.	GAGE 122 STRESS=	160.	GAGE 152 STRESS=	0.
GAGE 93 STRESS=	140.	GAGE 123 STRESS=	-40.	GAGE 153 STRESS=	-70.
GAGE 94 STRESS=	90.	GAGE 124 STRESS=	-100.	GAGE 154 STRESS=	60.
GAGE 95 STRESS=	-60.	GAGE 125 STRESS=	-130.	GAGE 155 STRESS=	-40.
GAGE 96 STRESS=	90.	GAGE 126 STRESS=	-250.	GAGE 156 STRESS=	-70.
GAGE 97 STRESS=	-50.	GAGE 127 STRESS=	380.	GAGE 157 STRESS=	20.
GAGE 98 STRESS=	40.	GAGE 128 STRESS=	-320.	GAGE 158 STRESS=	10.
GAGE 99 STRESS=	110.	GAGE 129 STRESS=	130.	GAGE 159 STRESS=	-40.
GAGE 100 STRESS=	0.	GAGE 130 STRESS=	-180.	GAGE 160 STRESS=	0.
GAGE 101 STRESS=	40.	GAGE 131 STRESS=	-40.	GAGE 161 STRESS=	20.
GAGE 102 STRESS=	120.	GAGE 132 STRESS=	350.	GAGE 162 STRESS=	-20.
GAGE 103 STRESS=	70.	GAGE 133 STRESS=	0.	GAGE 163 STRESS=	100.
GAGE 104 STRESS=	-10.	GAGE 134 STRESS=	10.	GAGE 164 STRESS=	-80.
GAGE 105 STRESS=	40.	GAGE 135 STRESS=	20.	GAGE 165 STRESS=	-180.
GAGE 106 STRESS=	90.	GAGE 136 STRESS=	0.	GAGE 166 STRESS=	100.
GAGE 107 STRESS=	-30.	GAGE 137 STRESS=	0.	GAGE 167 STRESS=	50.
GAGE 108 STRESS=	30.	GAGE 138 STRESS=	0.	GAGE 168 STRESS=	-40.
GAGE 109 STRESS=	130.	GAGE 139 STRESS=	-70.	GAGE 169 STRESS=	100.
GAGE 110 STRESS=	-80.	GAGE 140 STRESS=	0.	GAGE 170 STRESS=	-20.
GAGE 111 STRESS=	60.	GAGE 141 STRESS=	-100.	GAGE 171 STRESS=	-10.
GAGE 112 STRESS=	120.	GAGE 142 STRESS=	120.	GAGE 172 STRESS=	90.
GAGE 113 STRESS=	60.	GAGE 143 STRESS=	-60.	GAGE 173 STRESS=	-20.
GAGE 114 STRESS=	150.	GAGE 144 STRESS=	-140.	GAGE 174 STRESS=	-40.
GAGE 115 STRESS=	30.	GAGE 145 STRESS=	20.	GAGE 175 STRESS=	0.
GAGE 116 STRESS=	50.	GAGE 146 STRESS=	-10.	GAGE 176 STRESS=	0.
GAGE 117 STRESS=	-70.	GAGE 147 STRESS=	0.	GAGE 177 STRESS=	0.
GAGE 118 STRESS=	30.	GAGE 148 STRESS=	20.	GAGE 178 STRESS=	0.
GAGE 119 STRESS=	-70.	GAGE 149 STRESS=	-10.	GAGE 179 STRESS=	0.
GAGE 120 STRESS=	-120.	GAGE 150 STRESS=	20.	GAGE 180 STRESS=	20.

LOAD = 90 POUNDS

TORQUE

GAGE 181 STRESS=	-10.	GAGE 211 STRESS=	20.	GAGE 241 STRESS=	-50.
GAGE 182 STRESS=	0.	GAGE 212 STRESS=	0.	GAGE 242 STRESS=	0.
GAGE 183 STRESS=	0.	GAGE 213 STRESS=	-80.	GAGE 243 STRESS=	20.
GAGE 184 STRESS=	10.	GAGE 214 STRESS=	-90.	GAGE 244 STRESS=	-40.
GAGE 185 STRESS=	10.	GAGE 215 STRESS=	80.	GAGE 245 STRESS=	7510.
GAGE 186 STRESS=	30.	GAGE 216 STRESS=	-110.	GAGE 246 STRESS=	30.
GAGE 187 STRESS=	120.	GAGE 217 STRESS=	10.	GAGE 247 STRESS=	10.
GAGE 188 STRESS=	-10.	GAGE 218 STRESS=	50.	GAGE 248 STRESS=	-100.
GAGE 189 STRESS=	100.	GAGE 219 STRESS=	-140.	GAGE 249 STRESS=	10.
GAGE 190 STRESS=	140.	GAGE 220 STRESS=	-40.	GAGE 250 STRESS=	-70.
GAGE 191 STRESS=	-60.	GAGE 221 STRESS=	10.	GAGE 251 STRESS=	70.
GAGE 192 STRESS=	60.	GAGE 222 STRESS=	20.	GAGE 252 STRESS=	50.
GAGE 193 STRESS=	10.	GAGE 223 STRESS=	-50.	GAGE 253 STRESS=	-170.
GAGE 194 STRESS=	10.	GAGE 224 STRESS=	0.	GAGE 254 STRESS=	0.
GAGE 195 STRESS=	20.	GAGE 225 STRESS=	-110.	GAGE 255 STRESS=	180.
GAGE 196 STRESS=	10.	GAGE 226 STRESS=	0.	GAGE 256 STRESS=	-20.
GAGE 197 STRESS=	-20.	GAGE 227 STRESS=	40.	GAGE 257 STRESS=	90.
GAGE 198 STRESS=	-10.	GAGE 228 STRESS=	-50.	GAGE 258 STRESS=	150.
GAGE 199 STRESS=	20.	GAGE 229 STRESS=	0.	GAGE 259 STRESS=	40.
GAGE 200 STRESS=	-10.	GAGE 230 STRESS=	10.	GAGE 260 STRESS=	-60.
GAGE 201 STRESS=	-130.	GAGE 231 STRESS=	0.	GAGE 261 STRESS=	-30.
GAGE 202 STRESS=	10.	GAGE 232 STRESS=	0.	GAGE 262 STRESS=	-60.
GAGE 203 STRESS=	0.	GAGE 233 STRESS=	0.	GAGE 263 STRESS=	40.
GAGE 204 STRESS=	-130.	GAGE 234 STRESS=	-10.	GAGE 264 STRESS=	-60.
GAGE 205 STRESS=	0.	GAGE 235 STRESS=	-60.		
GAGE 206 STRESS=	10.	GAGE 236 STRESS=	20.		
GAGE 207 STRESS=	-130.	GAGE 237 STRESS=	-50.		
GAGE 208 STRESS=	-20.	GAGE 238 STRESS=	-60.		
GAGE 209 STRESS=	10.	GAGE 239 STRESS=	40.		
GAGE 210 STRESS=	-50.	GAGE 240 STRESS=	-40.		

LOAD = 190 POUNDS

TORQUE

GAGE 1	STRESS=	60.	GAGE 31	STRESS=	-50.	GAGE 61	STRESS=	-60.
GAGE 2	STRESS=	-10.	GAGE 32	STRESS=	-40.	GAGE 62	STRESS=	-50.
GAGE 3	STRESS=	110.	GAGE 33	STRESS=	-60.	GAGE 63	STRESS=	10.
GAGE 4	STRESS=	-190.	GAGE 34	STRESS=	-70.	GAGE 64	STRESS=	0.
GAGE 5	STRESS=	-60.	GAGE 35	STRESS=	0.	GAGE 65	STRESS=	-30.
GAGE 6	STRESS=	-270.	GAGE 36	STRESS=	-50.	GAGE 66	STRESS=	50.
GAGE 7	STRESS=	-170.	GAGE 37	STRESS=	120.	GAGE 67	STRESS=	-220.
GAGE 8	STRESS=	-170.	GAGE 38	STRESS=	100.	GAGE 68	STRESS=	-230.
GAGE 9	STRESS=	-120.	GAGE 39	STRESS=	110.	GAGE 69	STRESS=	-270.
GAGE 10	STRESS=	-120.	GAGE 40	STRESS=	230.	GAGE 70	STRESS=	-460.
GAGE 11	STRESS=	-110.	GAGE 41	STRESS=	210.	GAGE 71	STRESS=	90.
GAGE 12	STRESS=	-50.	GAGE 42	STRESS=	100.	GAGE 72	STRESS=	20.
GAGE 13	STRESS=	30.	GAGE 43	STRESS=	-60.	GAGE 73	STRESS=	-300.
GAGE 14	STRESS=	50.	GAGE 44	STRESS=	-20.	GAGE 74	STRESS=	-180.
GAGE 15	STRESS=	20.	GAGE 45	STRESS=	-40.	GAGE 75	STRESS=	-250.
GAGE 16	STRESS=	-40.	GAGE 46	STRESS=	160.	GAGE 76	STRESS=	-340.
GAGE 17	STRESS=	50.	GAGE 47	STRESS=	180.	GAGE 77	STRESS=	-380.
GAGE 18	STRESS=	160.	GAGE 48	STRESS=	170.	GAGE 78	STRESS=	-70.
GAGE 19	STRESS=	-20.	GAGE 49	STRESS=	140.	GAGE 79	STRESS=	-30.
GAGE 20	STRESS=	740.	GAGE 50	STRESS=	150.	GAGE 80	STRESS=	-70.
GAGE 21	STRESS=	-30.	GAGE 51	STRESS=	110.	GAGE 81	STRESS=	-350.
GAGE 22	STRESS=	-70.	GAGE 52	STRESS=	-10.	GAGE 82	STRESS=	10.
GAGE 23	STRESS=	-50.	GAGE 53	STRESS=	0.	GAGE 83	STRESS=	70.
GAGE 24	STRESS=	-50.	GAGE 54	STRESS=	20.	GAGE 84	STRESS=	-800.
GAGE 25	STRESS=	-30.	GAGE 55	STRESS=	330.	GAGE 85	STRESS=	90.
GAGE 26	STRESS=	-10.	GAGE 56	STRESS=	330.	GAGE 86	STRESS=	120.
GAGE 27	STRESS=	-60.	GAGE 57	STRESS=	330.	GAGE 87	STRESS=	-40.
GAGE 28	STRESS=	-60.	GAGE 58	STRESS=	120.	GAGE 88	STRESS=	-40.
GAGE 29	STRESS=	-40.	GAGE 59	STRESS=	80.	GAGE 89	STRESS=	270.
GAGE 30	STRESS=	-117610.	GAGE 60	STRESS=	100.	GAGE 90	STRESS=	-200.

LINEAR STRAIN GAGES

DATE 9-15-75

LOAD = 190 POUNDS

TORQUE

GAGE 91 STRESS=	-290.	GAGE 121 STRESS=	-30.	GAGE 151 STRESS=	190.
GAGE 92 STRESS=	-110.	GAGE 122 STRESS=	-110.	GAGE 152 STRESS=	90.
GAGE 93 STRESS=	-110.	GAGE 123 STRESS=	-120.	GAGE 153 STRESS=	200.
GAGE 94 STRESS=	-150.	GAGE 124 STRESS=	-140.	GAGE 154 STRESS=	70.
GAGE 95 STRESS=	-190.	GAGE 125 STRESS=	90.	GAGE 155 STRESS=	80.
GAGE 96 STRESS=	-120.	GAGE 126 STRESS=	-320.	GAGE 156 STRESS=	20.
GAGE 97 STRESS=	20.	GAGE 127 STRESS=	-380.	GAGE 157 STRESS=	30.
GAGE 98 STRESS=	240.	GAGE 128 STRESS=	-210.	GAGE 158 STRESS=	60.
GAGE 99 STRESS=	210.	GAGE 129 STRESS=	-120.	GAGE 159 STRESS=	40.
GAGE 100 STRESS=	240.	GAGE 130 STRESS=	-40.	GAGE 160 STRESS=	20.
GAGE 101 STRESS=	0.	GAGE 131 STRESS=	-20.	GAGE 161 STRESS=	0.
GAGE 102 STRESS=	60.	GAGE 132 STRESS=	-50.	GAGE 162 STRESS=	-10.
GAGE 103 STRESS=	690.	GAGE 133 STRESS=	-40.	GAGE 163 STRESS=	-40.
GAGE 104 STRESS=	-20.	GAGE 134 STRESS=	-10.	GAGE 164 STRESS=	120.
GAGE 105 STRESS=	-90.	GAGE 135 STRESS=	-20.	GAGE 165 STRESS=	40.
GAGE 106 STRESS=	-90.	GAGE 136 STRESS=	100.	GAGE 166 STRESS=	90.
GAGE 107 STRESS=	-60.	GAGE 137 STRESS=	10.	GAGE 167 STRESS=	-20.
GAGE 108 STRESS=	-60.	GAGE 138 STRESS=	100.	GAGE 168 STRESS=	-220.
GAGE 109 STRESS=	100.	GAGE 139 STRESS=	100.	GAGE 169 STRESS=	190.
GAGE 110 STRESS=	-560.	GAGE 140 STRESS=	-190.	GAGE 170 STRESS=	210.
GAGE 111 STRESS=	-240.	GAGE 141 STRESS=	-180.	GAGE 171 STRESS=	210.
GAGE 112 STRESS=	-550.	GAGE 142 STRESS=	-150.	GAGE 172 STRESS=	-80.
GAGE 113 STRESS=	-20.	GAGE 143 STRESS=	-190.	GAGE 173 STRESS=	-10.
GAGE 114 STRESS=	10.	GAGE 144 STRESS=	170.	GAGE 174 STRESS=	-70.
GAGE 115 STRESS=	40.	GAGE 145 STRESS=	90.	GAGE 175 STRESS=	-70.
GAGE 116 STRESS=	50.	GAGE 146 STRESS=	10.	GAGE 176 STRESS=	-60.
GAGE 117 STRESS=	-170.	GAGE 147 STRESS=	-210.	GAGE 177 STRESS=	-60.
GAGE 118 STRESS=	-300.	GAGE 148 STRESS=	-70.	GAGE 178 STRESS=	-10.
GAGE 119 STRESS=	-110.	GAGE 149 STRESS=	-200.	GAGE 179 STRESS=	0.
GAGE 120 STRESS=	-710.	GAGE 150 STRESS=	70.	GAGE 180 STRESS=	-10.

LINEAR STRAIN GAGES

DATE 9-15 -75

LOAD = 190 POUNDS

TORQUE

GAGE 181 STRESS=	-70.	GAGE 211 STRESS=	0.	GAGE 241 STRESS=	-210.
GAGE 182 STRESS=	-60.	GAGE 212 STRESS=	-40.	GAGE 242 STRESS=	160.
GAGE 183 STRESS=	30.	GAGE 213 STRESS=	-130.	GAGE 243 STRESS=	30.
GAGE 184 STRESS=	0.	GAGE 214 STRESS=	0.	GAGE 244 STRESS=	-90.
GAGE 185 STRESS=	-20.	GAGE 215 STRESS=	-130.	GAGE 245 STRESS=	-60.
GAGE 186 STRESS=	-110.	GAGE 216 STRESS=	-220.	GAGE 246 STRESS=	-210.
GAGE 187 STRESS=	-20.	GAGE 217 STRESS=	-260.	GAGE 247 STRESS=	-170.
GAGE 188 STRESS=	0.	GAGE 218 STRESS=	-230.	GAGE 248 STRESS=	-190.
GAGE 189 STRESS=	-10.	GAGE 219 STRESS=	-350.	GAGE 249 STRESS=	-170.
GAGE 190 STRESS=	-160.	GAGE 220 STRESS=	20.	GAGE 250 STRESS=	-140.
GAGE 191 STRESS=	-50.	GAGE 221 STRESS=	260.	GAGE 251 STRESS=	-320.
GAGE 192 STRESS=	-120.	GAGE 222 STRESS=	-160.	GAGE 252 STRESS=	-160.
GAGE 193 STRESS=	-100.	GAGE 223 STRESS=	-120.	GAGE 253 STRESS=	-110.
GAGE 194 STRESS=	-50.	GAGE 224 STRESS=	0.	GAGE 254 STRESS=	-170.
GAGE 195 STRESS=	-10.	GAGE 225 STRESS=	-140.	GAGE 255 STRESS=	220.
GAGE 196 STRESS=	-40.	GAGE 226 STRESS=	-100.	GAGE 256 STRESS=	-40.
GAGE 197 STRESS=	-40.	GAGE 227 STRESS=	100.	GAGE 257 STRESS=	320.
GAGE 198 STRESS=	-40.	GAGE 228 STRESS=	-50.	GAGE 258 STRESS=	-310.
GAGE 199 STRESS=	-10.	GAGE 229 STRESS=	70.	GAGE 259 STRESS=	-220.
GAGE 200 STRESS=	-30.	GAGE 230 STRESS=	50.	GAGE 260 STRESS=	40.
GAGE 201 STRESS=	-50.	GAGE 231 STRESS=	-50.	GAGE 261 STRESS=	-10.
GAGE 202 STRESS=	-60.	GAGE 232 STRESS=	-50.	GAGE 262 STRESS=	-10.
GAGE 203 STRESS=	-70.	GAGE 233 STRESS=	-80.	GAGE 263 STRESS=	-200.
GAGE 204 STRESS=	-70.	GAGE 234 STRESS=	-50.	GAGE 264 STRESS=	70.
GAGE 205 STRESS=	-30.	GAGE 235 STRESS=	-10.	GAGE 265 STRESS=	-210.
GAGE 206 STRESS=	-140.	GAGE 236 STRESS=	-60.	GAGE 266 STRESS=	10.
GAGE 207 STRESS=	-20.	GAGE 237 STRESS=	-40.	GAGE 267 STRESS=	-130.
GAGE 208 STRESS=	140.	GAGE 238 STRESS=	-50.	GAGE 268 STRESS=	-100.
GAGE 209 STRESS=	80.	GAGE 239 STRESS=	-370.	GAGE 269 STRESS=	0.
GAGE 210 STRESS=	-40.	GAGE 240 STRESS=	-190.	GAGE 270 STRESS=	-9600.

LINEAR STRAIN GAGES DATE 9-15 -75

LOAD = 190 POUNDS TORQUE

GAGE 271 STRESS= -230.

GAGE 272 STRESS= -50.

GAGE 273 STRESS= -50.

GAGE 274 STRESS= -120.

GAGE 275 STRESS= -10.

GAGE 276 STRESS= 20.

GAGE 277 STRESS= -60.

GAGE 278 STRESS= 80.

GAGE 279 STRESS= -60.

GAGE 280 STRESS= -240.

GAGE 281 STRESS= -210.

GAGE 282 STRESS= 230.

GAGE 283 STRESS= 5819.

LOAD = 190 POUNDS

TORQUE

GAGE 1 STRESS=	80.	GAGE 31 STRESS=	-200.	GAGE 61 STRESS=	-50.
GAGE 2 STRESS=	-100.	GAGE 32 STRESS=	-430.	GAGE 62 STRESS=	-30.
GAGE 3 STRESS=	0.	GAGE 33 STRESS=	-20.	GAGE 63 STRESS=	-40.
GAGE 4 STRESS=	50.	GAGE 34 STRESS=	20.	GAGE 64 STRESS=	-50.
GAGE 5 STRESS=	160.	GAGE 35 STRESS=	390.	GAGE 65 STRESS=	10.
GAGE 6 STRESS=	160.	GAGE 36 STRESS=	560.	GAGE 66 STRESS=	-10.
GAGE 7 STRESS=	100.	GAGE 37 STRESS=	20.	GAGE 67 STRESS=	-160.
GAGE 8 STRESS=	-20.	GAGE 38 STRESS=	20.	GAGE 68 STRESS=	170.
GAGE 9 STRESS=	-140.	GAGE 39 STRESS=	-20.	GAGE 69 STRESS=	180.
GAGE 10 STRESS=	90.	GAGE 40 STRESS=	20.	GAGE 70 STRESS=	-230.
GAGE 11 STRESS=	-30.	GAGE 41 STRESS=	-30.	GAGE 71 STRESS=	-90.
GAGE 12 STRESS=	-140.	GAGE 42 STRESS=	-10.	GAGE 72 STRESS=	30.
GAGE 13 STRESS=	240.	GAGE 43 STRESS=	-380.	GAGE 73 STRESS=	90.
GAGE 14 STRESS=	580.	GAGE 44 STRESS=	-280.	GAGE 74 STRESS=	-50.
GAGE 15 STRESS=	-110.	GAGE 45 STRESS=	-250.	GAGE 75 STRESS=	240.
GAGE 16 STRESS=	150.	GAGE 46 STRESS=	-240.	GAGE 76 STRESS=	140.
GAGE 17 STRESS=	-780.	GAGE 47 STRESS=	420.	GAGE 77 STRESS=	-50.
GAGE 18 STRESS=	-1010.	GAGE 48 STRESS=	250.	GAGE 78 STRESS=	240.
GAGE 19 STRESS=	-110.	GAGE 49 STRESS=	-10.	GAGE 79 STRESS=	-50.
GAGE 20 STRESS=	-20.	GAGE 50 STRESS=	0.	GAGE 80 STRESS=	-30.
GAGE 21 STRESS=	-680.	GAGE 51 STRESS=	-30.	GAGE 81 STRESS=	-150.
GAGE 22 STRESS=	-40.	GAGE 52 STRESS=	-10.	GAGE 82 STRESS=	-60.
GAGE 23 STRESS=	230.	GAGE 53 STRESS=	0.	GAGE 83 STRESS=	10.
GAGE 24 STRESS=	-360.	GAGE 54 STRESS=	-20.	GAGE 84 STRESS=	-110.
GAGE 25 STRESS=	140.	GAGE 55 STRESS=	-1150.	GAGE 85 STRESS=	350.
GAGE 26 STRESS=	250.	GAGE 56 STRESS=	-290.	GAGE 86 STRESS=	-50.
GAGE 27 STRESS=	-50.	GAGE 57 STRESS=	-530.	GAGE 87 STRESS=	520.
GAGE 28 STRESS=	20.	GAGE 58 STRESS=	500.	GAGE 88 STRESS=	380.
GAGE 29 STRESS=	-390.	GAGE 59 STRESS=	580.	GAGE 89 STRESS=	-180.
GAGE 30 STRESS=	-530.	GAGE 60 STRESS=	840.	GAGE 90 STRESS=	470.

LOAD = 190 POUNDS

TORQUE

GAGE 91 STRESS=	230.	GAGE 121 STRESS=	-160.	GAGE 151 STRESS=	50.
GAGE 92 STRESS=	-40.	GAGE 122 STRESS=	310.	GAGE 152 STRESS=	-40.
GAGE 93 STRESS=	290.	GAGE 123 STRESS=	-130.	GAGE 153 STRESS=	-170.
GAGE 94 STRESS=	140.	GAGE 124 STRESS=	-240.	GAGE 154 STRESS=	80.
GAGE 95 STRESS=	-140.	GAGE 125 STRESS=	-300.	GAGE 155 STRESS=	-90.
GAGE 96 STRESS=	170.	GAGE 126 STRESS=	-540.	GAGE 156 STRESS=	-200.
GAGE 97 STRESS=	-120.	GAGE 127 STRESS=	840.	GAGE 157 STRESS=	10.
GAGE 98 STRESS=	80.	GAGE 128 STRESS=	-540.	GAGE 158 STRESS=	-30.
GAGE 99 STRESS=	220.	GAGE 129 STRESS=	280.	GAGE 159 STRESS=	-80.
GAGE 100 STRESS=	-20.	GAGE 130 STRESS=	-250.	GAGE 160 STRESS=	0.
GAGE 101 STRESS=	40.	GAGE 131 STRESS=	-220.	GAGE 161 STRESS=	10.
GAGE 102 STRESS=	210.	GAGE 132 STRESS=	680.	GAGE 162 STRESS=	-50.
GAGE 103 STRESS=	150.	GAGE 133 STRESS=	-20.	GAGE 163 STRESS=	200.
GAGE 104 STRESS=	-60.	GAGE 134 STRESS=	-10.	GAGE 164 STRESS=	-230.
GAGE 105 STRESS=	110.	GAGE 135 STRESS=	-10.	GAGE 165 STRESS=	-410.
GAGE 106 STRESS=	160.	GAGE 136 STRESS=	-30.	GAGE 166 STRESS=	180.
GAGE 107 STRESS=	-60.	GAGE 137 STRESS=	-30.	GAGE 167 STRESS=	70.
GAGE 108 STRESS=	50.	GAGE 138 STRESS=	-30.	GAGE 168 STRESS=	-100.
GAGE 109 STRESS=	260.	GAGE 139 STRESS=	90.	GAGE 169 STRESS=	170.
GAGE 110 STRESS=	-230.	GAGE 140 STRESS=	-10.	GAGE 170 STRESS=	-60.
GAGE 111 STRESS=	130.	GAGE 141 STRESS=	-190.	GAGE 171 STRESS=	-60.
GAGE 112 STRESS=	220.	GAGE 142 STRESS=	290.	GAGE 172 STRESS=	160.
GAGE 113 STRESS=	100.	GAGE 143 STRESS=	-170.	GAGE 173 STRESS=	-60.
GAGE 114 STRESS=	320.	GAGE 144 STRESS=	-340.	GAGE 174 STRESS=	-100.
GAGE 115 STRESS=	50.	GAGE 145 STRESS=	40.	GAGE 175 STRESS=	0.
GAGE 116 STRESS=	100.	GAGE 146 STRESS=	0.	GAGE 176 STRESS=	0.
GAGE 117 STRESS=	-160.	GAGE 147 STRESS=	0.	GAGE 177 STRESS=	-10.
GAGE 118 STRESS=	60.	GAGE 148 STRESS=	30.	GAGE 178 STRESS=	10.
GAGE 119 STRESS=	-160.	GAGE 149 STRESS=	-30.	GAGE 179 STRESS=	-10.
GAGE 120 STRESS=	-290.	GAGE 150 STRESS=	-10.	GAGE 180 STRESS=	-10.

ROSETTE STRAIN GAGES DATE 9-30-75

LOAD = 190 POUNDS

TORQUE

GAGE 181 STRESS=	-10.	GAGE 211 STRESS=	-70.	GAGE 241 STRESS=	-180.
GAGE 182 STRESS=	-70.	GAGE 212 STRESS=	-10.	GAGE 242 STRESS=	-40.
GAGE 183 STRESS=	-20.	GAGE 213 STRESS=	-210.	GAGE 243 STRESS=	20.
GAGE 184 STRESS=	-20.	GAGE 214 STRESS=	170.	GAGE 244 STRESS=	-150.
GAGE 185 STRESS=	0.	GAGE 215 STRESS=	170.	GAGE 245 STRESS=	80.
GAGE 186 STRESS=	20.	GAGE 216 STRESS=	-250.	GAGE 246 STRESS=	50.
GAGE 187 STRESS=	220.	GAGE 217 STRESS=	10.	GAGE 247 STRESS=	40.
GAGE 188 STRESS=	-60.	GAGE 218 STRESS=	60.	GAGE 248 STRESS=	-230.
GAGE 189 STRESS=	180.	GAGE 219 STRESS=	-340.	GAGE 249 STRESS=	0.
GAGE 190 STRESS=	260.	GAGE 220 STRESS=	-90.	GAGE 250 STRESS=	-200.
GAGE 191 STRESS=	-140.	GAGE 221 STRESS=	30.	GAGE 251 STRESS=	100.
GAGE 192 STRESS=	100.	GAGE 222 STRESS=	40.	GAGE 252 STRESS=	80.
GAGE 193 STRESS=	-10.	GAGE 223 STRESS=	-140.	GAGE 253 STRESS=	-360.
GAGE 194 STRESS=	-20.	GAGE 224 STRESS=	0.	GAGE 254 STRESS=	-10.
GAGE 195 STRESS=	40.	GAGE 225 STRESS=	-230.	GAGE 255 STRESS=	-99600.
GAGE 196 STRESS=	-10.	GAGE 226 STRESS=	0.	GAGE 256 STRESS=	-60.
GAGE 197 STRESS=	-20.	GAGE 227 STRESS=	70.	GAGE 257 STRESS=	200.
GAGE 198 STRESS=	-40.	GAGE 228 STRESS=	-100.	GAGE 258 STRESS=	260.
GAGE 199 STRESS=	30.	GAGE 229 STRESS=	-10.	GAGE 259 STRESS=	60.
GAGE 200 STRESS=	-20.	GAGE 230 STRESS=	10.	GAGE 260 STRESS=	-140.
GAGE 201 STRESS=	-280.	GAGE 231 STRESS=	-10.	GAGE 261 STRESS=	-130.
GAGE 202 STRESS=	20.	GAGE 232 STRESS=	-20.	GAGE 262 STRESS=	-140.
GAGE 203 STRESS=	-30.	GAGE 233 STRESS=	0.	GAGE 263 STRESS=	70.
GAGE 204 STRESS=	-270.	GAGE 234 STRESS=	-20.	GAGE 264 STRESS=	-100.
GAGE 205 STRESS=	-50.	GAGE 235 STRESS=	-130.		
GAGE 206 STRESS=	40.	GAGE 236 STRESS=	40.		
GAGE 207 STRESS=	-280.	GAGE 237 STRESS=	-120.		
GAGE 208 STRESS=	-50.	GAGE 238 STRESS=	-140.		
GAGE 209 STRESS=	0.	GAGE 239 STRESS=	60.		
GAGE 210 STRESS=	-160.	GAGE 240 STRESS=	-120.		