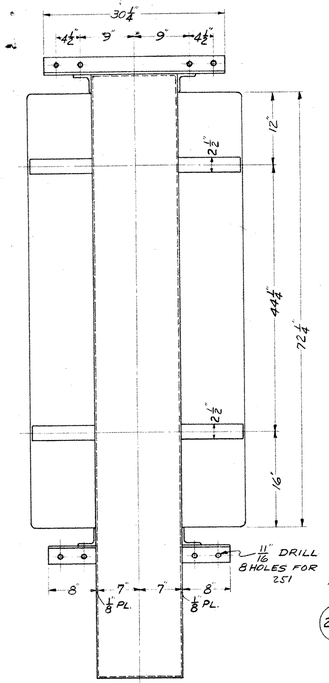
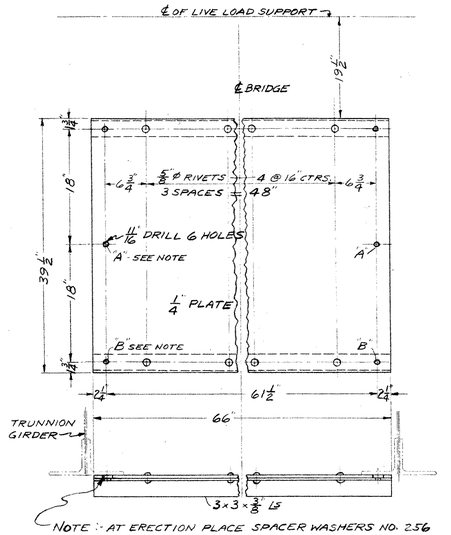
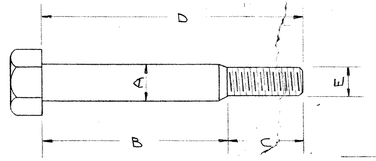




NOTE :- AT ERECTION PLACE SPACER WASHERS NO. 256 BETWEEN COVER AND TRUNNION GIRDER - 2 REQD. AT EACH HOLE "A" AND 4 REQD. AT EACH HOLE "B".

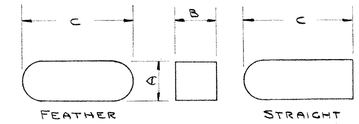
(252) COVER FOR MAIN MOTOR AND THRUSTOR BRAKE
2 REQ'D. S.



TURNED BOLT LIST

Pc. No.	HEAD	QTY.	A	B	C	D	E	FOR	HEX NUT	L.W.	B.W.	C.W.
2	HEX	288	1 1/16	3 3/8	1 7/8	5 1/4	1"	1	288	288	—	576
7	"	64	1 7/16	3 1/8	2 1/8	5 1/4	1 3/8	5	64	64	—	128
8	SQUARE	64	1 3/16	8 5/8	3"	11 5/8	1 1/8	5 & 6	128	—	—	—
15	HEX	32	1 3/16	7 1/2	3"	10 1/2	1 1/8	6 & 14	64	—	—	—
24	"	24	1 5/16	4 3/4	2"	6 3/8	1 1/4	21 & 22	24	24	—	—
53	"	48	15/16	2 3/8	1 1/2	3 1/8	7/8	51	48	48	—	96
54	"	48	13/16	5 5/8	2 1/8	7 3/4	3/4	51 & 52	96	—	—	—
60	"	32	13/16	5 5/8	2 1/8	7 3/4	3/4	52 & 59	64	—	—	—
110	"	8	13/16	1 1/2	1 3/8	2 7/8	3/4	108	8	8	—	24
111	"	64	13/16	3"	2"	5"	3/4	109	128	—	—	—
121	"	32	13/16	1 1/2	1 3/8	2 7/8	3/4	120	32	32	—	64
141	"	24	13/16	2"	1 3/8	3 3/8	3/4	130	24	24	—	48
153	"	24	15/16	3 7/8	1 1/2	5 7/8	7/8	151 & 156	24	24	—	—
159	"	16	15/16	1 7/8	1 5/8	3 1/2	7/8	157	16	16	—	32
174	"	8	13/16	1 7/8	1 3/8	3 1/4	3/4	171	8	8	—	16
174	"	8	13/16	2 1/8	1 3/4	3 7/8	3/4	171	8	8	8	16
175	"	16	13/16	5 1/4	2"	7 1/4	3/4	172	32	—	—	—
221	"	4	21/32	1 1/4	1 1/8	2 3/8	5/8	220	4	4	—	—
234	"	4	11/16	1 1/2	1 1/8	2 5/8	5/8	232	4	4	—	16
259	"	32	13/16	1 7/8	1 5/8	3 1/2	3/4	257	32	32	32	—
260	"	32	13/16	2 3/4	1 3/8	4 1/8	3/4	258	32	32	—	—

← check

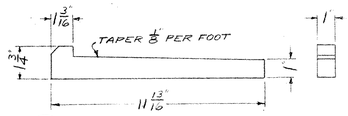


KEY LIST

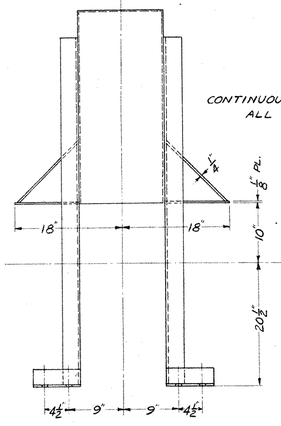
Pc. No.	KIND	QTY	A	B	C	FOR	ON
23	STRAIGHT	8	1¾	1¾	8½	21 & 22	17 & 19
27	FEATHER	4	1¾	1¾	10½	26	19
63	GIB	4	SEE	DETAIL		BRAKE WHEEL	62
68	STRAIGHT	8	1"	1"	4"	67	62 & 65
71	STRAIGHT	4	1"	1"	6"	70	65
72	STRAIGHT	4	1¼	1¼	6"	70	78
76	FEATHER	4	1"	1"	12¼	74	65
82	STRAIGHT	2	⅝	⅝	5¼	80	78
86	STRAIGHT	2	½	½	5"	84	MOTOR
103	STRAIGHT	2	⅝	⅞	5¼	101	78
106	STRAIGHT	2	½	½	5⅜	104	116
127	STRAIGHT	4	½	½	3⅛	125	116 & 137
127	STRAIGHT	4	½	½	3¾	128	135 & 138
133	STRAIGHT	8	½	½	3¼	132	137, 136 & 137
209	STRAIGHT	4	1"	1"	5¼	208	207 & 210
213	FEATHER	1	1"	1"	10⅞	212	210
218	STRAIGHT	1	⅝	⅝	4¾	217	220
225	STRAIGHT	2	⅜	⅜	2½	224	224 & 228
223	STRAIGHT	1	¾	¾	5½	215	MOTOR

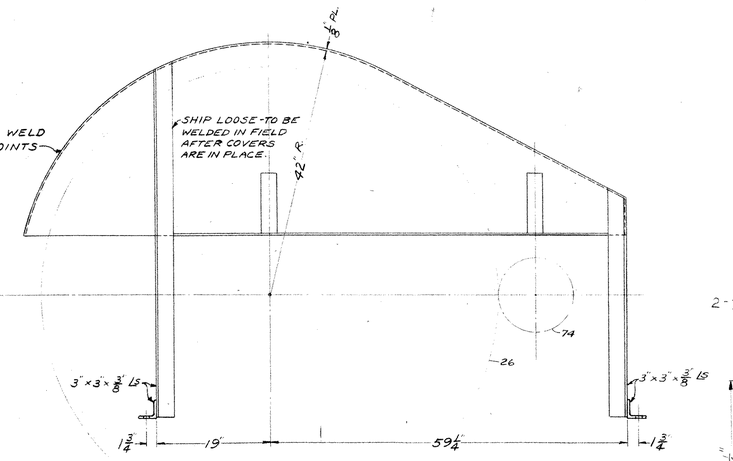
S.O. D-610 BILL OF MATERIAL DWG. 5628 E-30

Pc. No.	NAME	QTY.	MAT'L	PATT.	REMARKS
250	COVER FOR GEARS 26 & 74	4	S.		
251	EXPANSION BOLT FOR 250	32		MADDOCK	#3645 SHIELD & 5/8" HEX HD MACH BOLT 4 U.H.
252	COVER FOR MOTOR & BRAKE	2	S.		
253	BOLT FOR 252	4	S.		⅝ HEX HD MACH., 2 U.H., 1 N., 1 L.W.
254	BOLT FOR 252 (AT "A")	4	S.		⅝ " " " , 2½ U.H., 1 N., 1 L.W.
255	BOLT FOR 252 (AT "B")	4	S.		⅝ " " " , 2½ U.H., 1 N., 1 L.W.
256	SPACER WASHER	24	S.		⅝ COMMON
257	BUFFER CYLINDER	8	C.S.		
258	BUFFER CYLINDER	8	C.S.		
259	BASE BOLT FOR 257	32	S.		T.B. LIST
260	BASE BOLT FOR 258	32	S.		T.B. LIST
261	PISTON ROD GUIDE	16	C.S.		
262	BUSHING FOR 261	16	GRAPH PHOS. BZ		
263	PISTON ROD	16	C.R.S.		
264	NUT FOR 263	16	S.		1½ HEX JAM
265	FOLLOWER PLATE	16	S.		
266	PISTON HEAD	16	S.		
267	PISTON PACKING	16			
268	ADJUSTING NUT	16	S.		
269	BOLT FOR 261	64	S.		
270	CHECK VALVE FOR 257, 258	16			½" R.P.&C. FIG. 212 HORIZ. SWING
271	NEEDLE VALVE FOR 257, 258	16			½" R.P.&C. FIG. 1040A GLOBE
272	PIPE NIPPLE FOR 270, 271	32			½" x 1½" BLACK

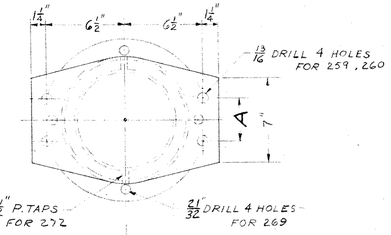


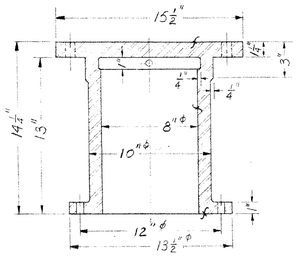
(63) KEY FOR BRAKE WHEEL





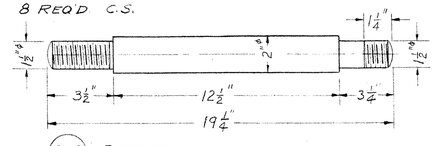
(250) COVER FOR GEARS 26 & 74 4 REQ'D S.



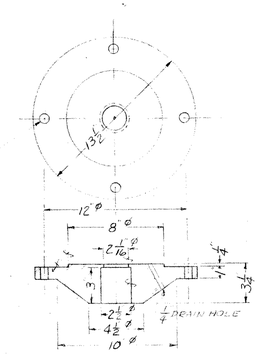


(257) BUFFER CYLINDER A = 3½"
8 REQ'D. C.S.

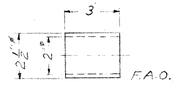
(258) BUFFER CYLINDER A = 5"
8 REQ'D C.S.



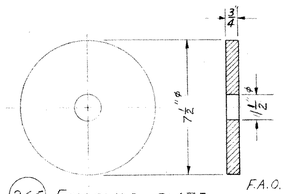
(263) PISTON ROD
16 REQ'D. C.R.S.



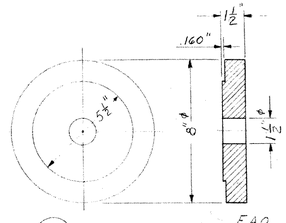
(261) PISTON ROD GUIDE
16 REQ'D. C.S.



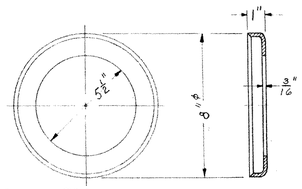
(262) BUSHING FOR 261
16 REQ'D GRAPH. PHOS. BZ.



(265) FOLLOWER PLATE
16 REQ'D. S.

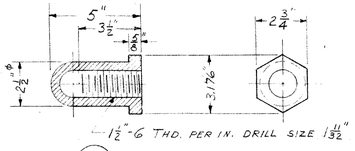


(266) PISTON HEAD
16 REQ'D. S.



GARLOCK #813 COMPOSITION ASBESTOS CUP WITH MOLDED IN EXPANSION SPRING.

(267) PISTON PACKING
16 REQ'D



(268) ADJUSTING NUT
16 REQ'D. S.

SPECIFICATIONS

INSPECTION

GENERAL NOTES

ALL STEEL CASTINGS & FORGINGS TO BE ANNEALED
SPOT FACE FOR ALL BOLT HEADS & NUTS
SCRIBE PITCH LINES ON BOTH SIDES OF ALL GEARS
SHOP PAINT—ONE COAT—
FINISHED SURFACES COATED—
CUT OIL GROOVES IN ALL BEARINGS UNLESS NOTED
ALL SHIMS TO BE DRILLED

DATE		REVISIONS

S. O. D-610 CONTRACT

GRAND ISLE - NORTH HERO BASCULE BRIDGE - VERMONT

THE EARLE GEAR AND MACHINE COMPANY
4707 TO 4715 STENTON AVENUE
PHILADELPHIA 44, PA.

DRAWN BY G.P. APPROVED BY
CHECKED BY R.W.D. REV. APPVD.
DATE 10/10/51 REV. APPVD.
SHEET 9 OF DWG. Nº 5628 E - 30