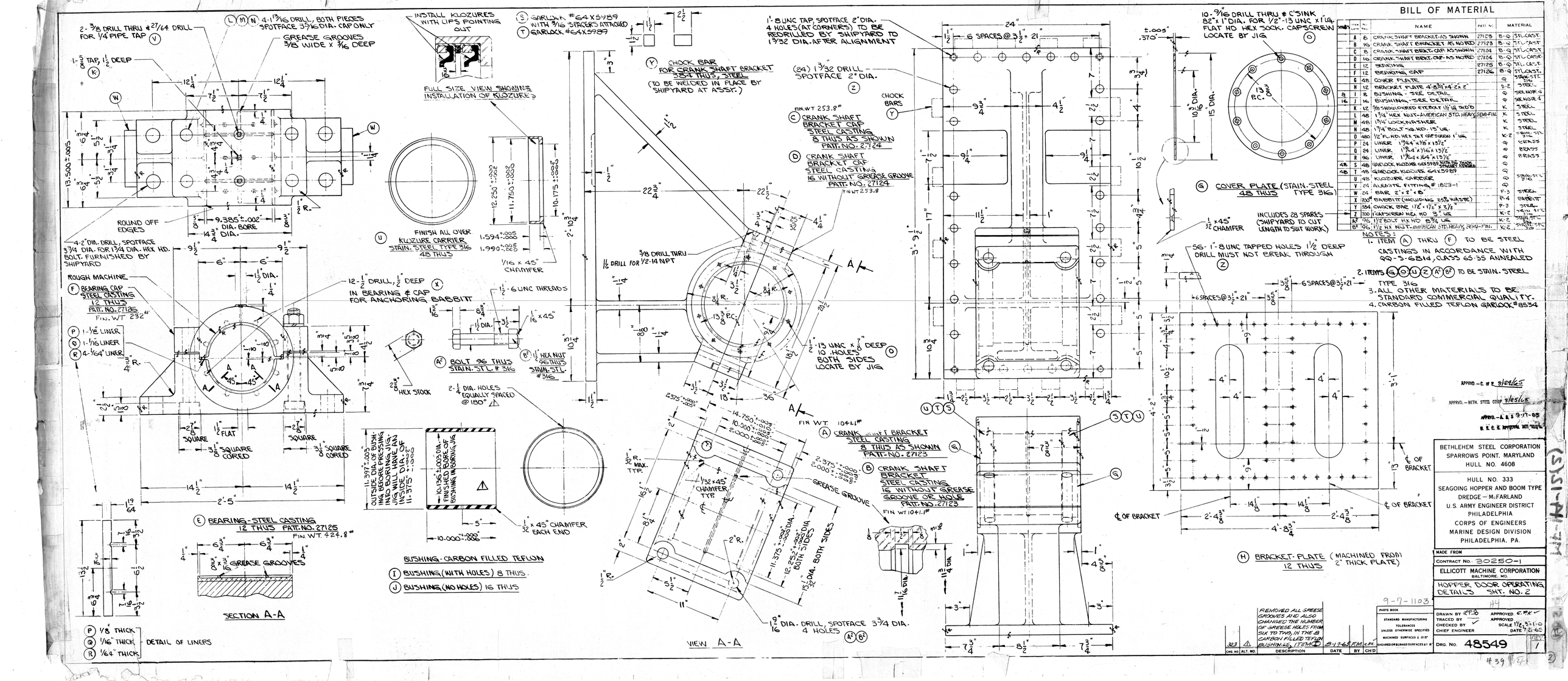

BILL OF MATERIAL

ITEM NO.	NO. PCS.	NAME	PATT. NO.	MATERIAL	
	A	8	CRANK SHAFT BRACKET-AS SHOWN	27123	B-G	STL. CAST.
	B	16	CRANK SHAFT BRACKET AS NOTED	27123	B-G	STL. CAST
	C	8	CRANK SHAFT BRKT. CAP AS SHOWN	27124	B-G	STL. CAST
	D	16	CRANK SHAFT BRKT. CAP-AS NOTED	27124	B-G	STL. CAST.
	E	12	BEARING	27125	B-G	STL. CAST.
	F	12	BEARING CAP	27126	B-G	STL. CAST.
	G	48	COVER PLATE		Q	STAIN. STL. TYPE 316
	H	12	BRACKET PLATE 4-8 3/4 x 4 2 x 2		D-2	STEEL
8	I	8	BUSHING - SEE DETAIL		Q	SEE NOTE 4
16	J	16	BUSHING - SEE DETAIL		Q	SEE NOTE 4
	K	12	5/8 SHOULDERED EYEBOLT 1 1/2 LG THD'D		K	STEEL
	L	48	1 3/4 HEX NUT-AMERICAN STD. HEAVY SEMI-FIN.		K	STEEL
	M	48	1 3/4 LOCK WASHER		K	STEEL
	N	48	1 3/4 BOLT - 8 N.C. - 13 LG.		K	STEEL
	O	480	1/2 FL. HD. HEX SET SCREW 1 LG.		K-2	STAIN. STL. TYPE 316
	P	24	LINER 1 3/64 x 1 5/8 x 13 5/8		B	BRASS
	Q	24	LINER 1 3/64 x 1 5/16 x 13 5/8		B	BRASS
	R	96	LINER 1 3/64 x 1/64 x 13 5/8		B	BRASS
48	S	48	GARLOCK KLOZURES 6415989 WITH SPACERS ATTACHED		D	STAIN. STL.
48	T	48	GARLOCK KLOZURES 64 X 5989		D	STAIN. STL. TYPE 316
	U	48	KLOZURE CARRIER		B	BRASS
	V	24	ALEMITE FITTING # 1823-1		B	
	W	24	BAR 2" x 2" x 8"		F-3	STEEL
	X	700#	BABBITT (INCLUDING 25% WASTE)		P-4	BABBITT
	Y	384	SHOCK BAR 1/2" x 1 1/2" x 2 1/2"		P-3	STEEL
	Z	200	FLATSERON HEX HD 3" LG		K-2	STAIN. STL. TYPE 316
A2		96	1/2 BOLT HX HD 8 3/4 LG		K-2	STAIN. STL. TYPE 316
B2		96	1 1/2 HX NUT-AMERICAN STD. HEAVY SEMI-FIN.		K-2	STAIN. STL. TYPE 316

NOTES:
1. ITEM (A) THRU (F) TO BE STEEL CASTINGS IN ACCORDANCE WITH QQ-S-681d, CLASS 65-35 ANNEALED
2. ITEMS (G)(S)(U)(Z)(A2)(B2) TO BE STAIN. STEEL TYPE 316
3. ALL OTHER MATERIALS TO BE STANDARD COMMERCIAL QUALITY.
4. CARBON FILLED TEFLON GARLOCK #8534

APPRVD. — C. of E. 8/29/65
APPRVD. — BETH. STEEL CORP. 8/25/65
APPRVD. — A. B. S. 9-17-65
U.S.C.G. APPROVAL NO. 164.1

BETHLEHEM STEEL CORPORATION
SPARROWS POINT, MARYLAND
HULL NO. 4608

HULL NO. 333
SEAGOING HOPPER AND BOOM TYPE DREDGE — M. FARLAND
U.S. ARMY ENGINEER DISTRICT
PHILADELPHIA
CORPS OF ENGINEERS
MARINE DESIGN DIVISION
PHILADELPHIA, PA.

MADE FROM
CONTRACT NO. 30250-1
ELLICOTT MACHINE CORPORATION
BALTIMORE, MD.

HOPPER DOOR OPERATING DETAILS SHT. NO. 2

9-7-1103

CHG. NO.	ALT. NO.	DESCRIPTION	DATE	BY	CHD
323	1	REMOVED ALL GREESE GROOVES AND ALSO CHANGED THE NUMBER OF GREESE HOLES FROM SIX TO TWO, IN THE 8 CARBON FILLED TEFLON BUSHINGS, ITEM (I)	8-17-65	EM	C.P.K.

PARTS BOOK
STANDARD MANUFACTURING TOLERANCES UNLESS OTHERWISE SPECIFIED
MACHINED SURFACES ± .015"
SHEARED OR BURNED SURFACES ± 1/8"

DRAWN BY EPB
TRACED BY
CHECKED BY
CHIEF ENGINEER
APPROVED C.P.K.
APPROVED
SCALE 1 1/2" = 1'-0"
DATE 7-6-65

DRG. No. 48549
SHEET 1

H4

439

(2)