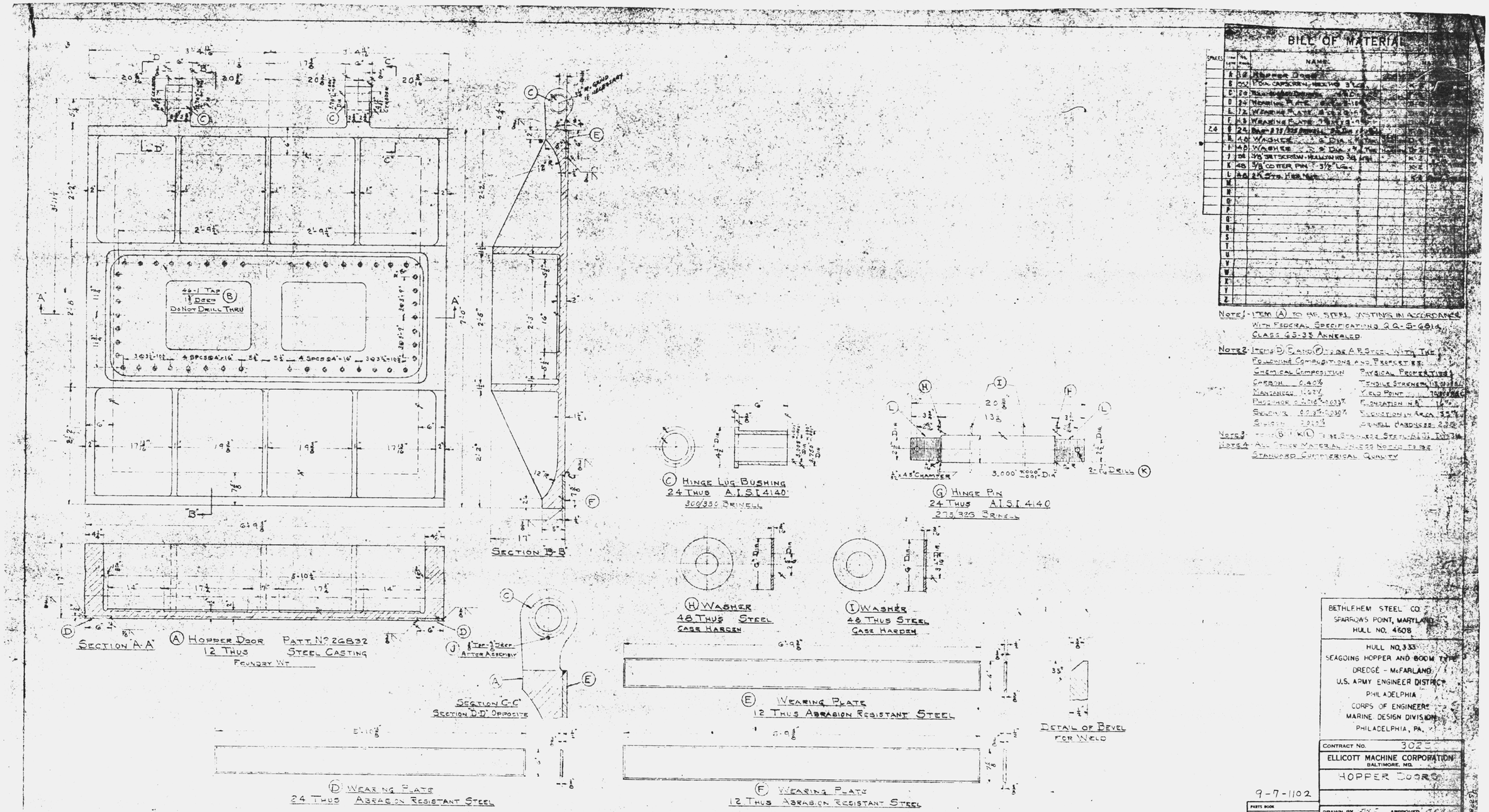

BILL OF MATERIAL

Spares	Item Letter	No. Req'd	Name	Material	Finish	Weight
	A	12	Hopper Door			
	B	252	1" Dia. Capscrew, Hexhd 3½" Lg.			
	C	24	Hinge Lug Bushing			
	D	24	Wearing Plate			
	E	12	Wearing Plate			
	F	48	Wearing Plate			
24	G	24	Hinge Pin			
	H	48	Washer			
	I	48	Washer			
	J	24	3/8" Setscrew - Hollow Hd 3/8" Lg.			
	K	48	3/8" Cotter Pin 3½" Lg.			
	L	48	2" Sq. Hex Nut			
	M					
	N					
	O					
	P					
	Q					
	R					
	S					
	T					
	U					
	V					
	W					
	X					
	Y					
	Z					

Note 1 - Item (A) to be Steel Casting in accordance with Federal Specification QQ-S-681d Class 65-35 Annealed.

Note 2 - Items D, E and F to be A.B. Steel with the following compositions and properties:

Chemical Composition	Physical Properties
Carbon 0.40%	Tensile Strength 115,000 PSI
Manganese 1.62%	Yield Point 70,000 PSI
Phosphorus 0.016%-0.037%	Elongation in 8" 14%
Sulphur 0.032%-0.030%	Reduction in Area 35%
Silicon 0.20%	Brinell Hardness 225

Note 3 - Items B, I, K to be Standard Steel Castings.

Note 4 - All other material unless so noted to be Standard Commercial Quality.

BETHLEHEM STEEL CO.
SPARROWS POINT, MARYLAND
HULL NO. 4608

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

CONTRACT No. 3025

ELLICOTT MACHINE CORPORATION
BALTIMORE, MD.

HOPPER DOORS

9-7-1102

PARTS BOOK

STANDARD MANUFACTURING TOLERANCES
UNLESS OTHERWISE SPECIFIED
MACHINED SURFACES ± .015"
SHEARED OR BURNED SURFACES ± 1/32"

DRG. NO.	ALT. NO.	DESCRIPTION	DATE	BY	CHD

DRAWN BY — APPROVED
TRACED BY — APPROVED
CHECKED BY — SCALE
CHIEF ENGINEER — DATE

DRG. No. 46652

4608-067-8