



BILL OF MATERIALS				
ITEM NO.	NO. REQ.	DESCRIPTION	MATL.	REMARKS
1	1	BUOY WRAPPER	STEEL	3/16 THK.
2	1	FLANGED HEAD	STEEL	3/16 THK.
3	1	CONICAL WRAPPER	STEEL	3/16 THK.
4	1	BOTTOM PLATE	STEEL	3/16 THK.
5	1	MOORING BAR	STEEL	4 WD. x 3/8 THK.
6	6	RUDDER GUSSETS	STEEL	3/16 THK.
7	1	UPPER RUDDER	STEEL	3/16 THK.
8	1	LOWER RUDDER	STEEL	1/4 THK.
9	2	RUDDER ANGLE	STEEL	L 3 x 3 x 3/16 x 8 LG.
10	6	COUNTERWEIGHT PLATE	STEEL	10 WD. x 23 LG. x 3/8 THK.
11	2	HEX HEAD BOLT	STAIN. STEEL	3/4-10 UNC-2A x 4 LG.
12	2	HEX HEAD NUT	STAIN. STEEL	3/4-10 UNC-2B
13	2	LOCK WASHER	STAIN. STEEL	3/4 NOMINAL
14	1	WRAPPER STIFFNER	STEEL	2 WD. x 3/16 THK.
15	3	RADAR REFLECTOR SUPPORT	STEEL	3/4 SQ.
16	1	SPACER BAR	STEEL	3/4 SQ.
17	2	RADAR REFLECTOR	STEEL	12 GA.
18	1	TOP PLATE	STEEL	4 SQ. x 1/4 THK.
19	2	HALF COUPLING	STAIN. STEEL	3/4 I.P.S.
20	2	PIPE PLUG	STAIN. STEEL	3/4 I.P.S. HEX HEAD
21	4	RETROREFLECTIVE MATERIAL	-----	RED 3 WD x 12 LG.

NOTES:

1. SEE LATEST REVISION OF CIVIL ENGINEERING SPECIFICATION NO. 464 FOR FABRICATION REQUIREMENTS.

2. INSTALL ITEMS 19 ON THE LEFT HAND SIDE OF ITEMS 5 AS SHOWN.

REV. DATE APPR.	A 10-20-16 W.D.	ADDED WATER DRAINAGE CUT OUT TO ITEM 17. ADDED DETAIL E. DELETED 2 EA ITEM 10.	S.M.
DESIGNED: S.M.	U.S. COAST GUARD HEADQUARTERS		
DRAWN: S.M.	CIVIL ENGINEERING		
TRACED:	2010 4TH CLASS NUN		
CHECKED:	RADAR REFLECTOR SPECIAL		
REVIEWED BY:	4NRS		
PROJECT ENGINEER	S. McEvoy		
REVIEWED BY:	CG-432B		
REVIEWED BY:	W. Danzik		
REVIEWED BY:	S. Walker		
APPROVED:	Stan Walker for		DATE 03/15/2011
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES. TOLERANCES: DIM. ±1/8 ANG. ±1'		DRAWING NUMBER	REV.
		121197	A
SCALE: AS NOTED		SHEET 1 OF 1	