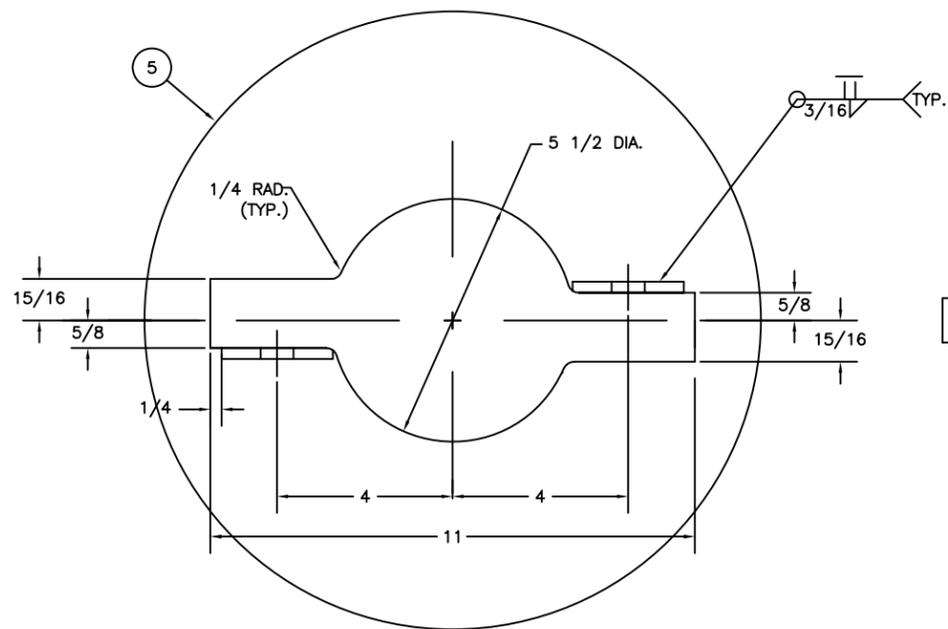
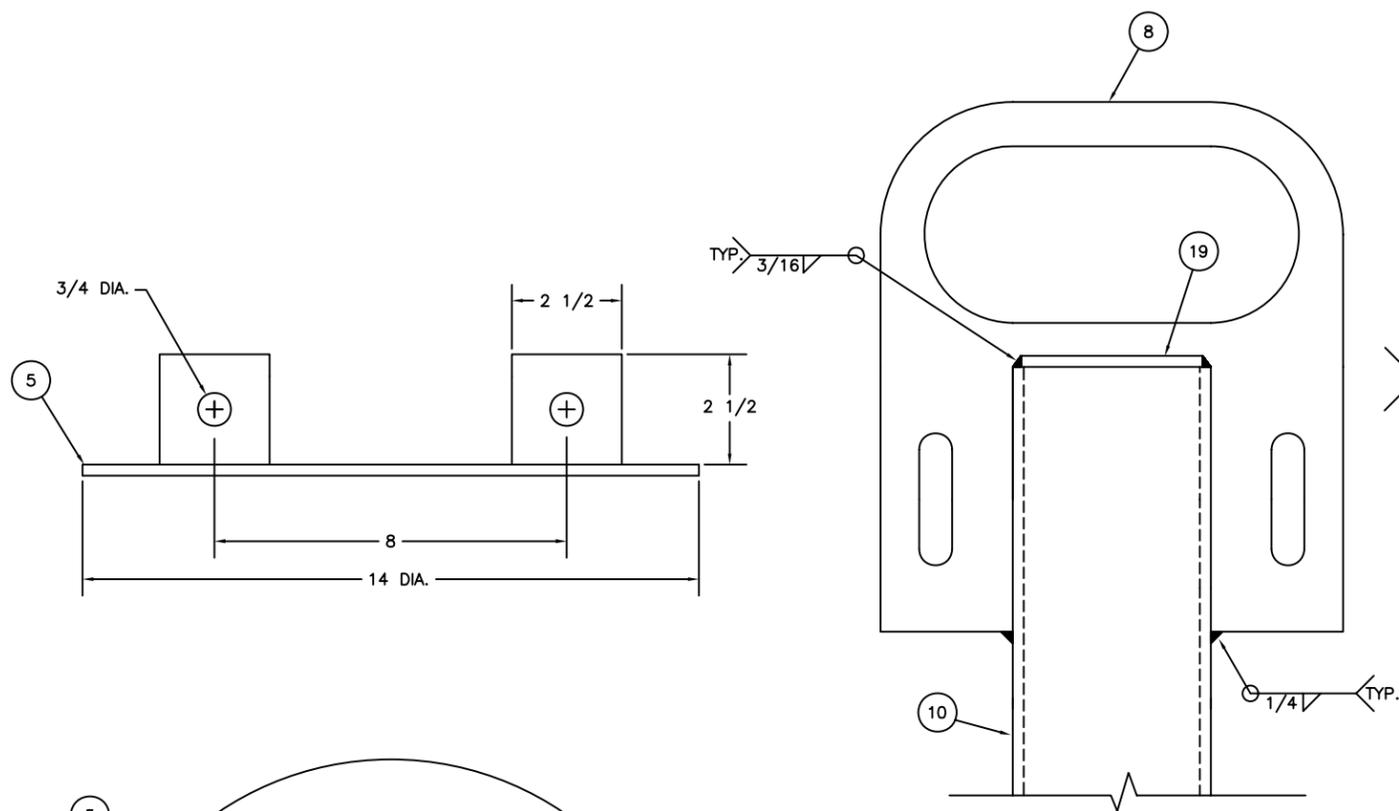


REV.	DATE	APPR.	DESCRIPTION	BY
D	5-15-07	S.W.	CHANGED ITEMS 1, 2 & 3 FROM 3 PCF TO 4 PCF.	S.M.
C	1-5-99	S.W.	REORGANIZED DWG. MODIFIED QTY OF ITEMS 12 AND 16. ADDED ITEM 20. REORGANIZED THE DRAWING.	S.M.
B	11-24-97	S.W.	MODIFIED SLOT DIMENSION FOR ITEM 5.	S.M.
A	1-22-97	S.W.	REORGANIZED DWG. MODIFIED ITEMS 4, 5, 7, 8, 10, 12, 13, 14, 15. ADDED NOTE 7. ADDED ITEM 19.	C.B.

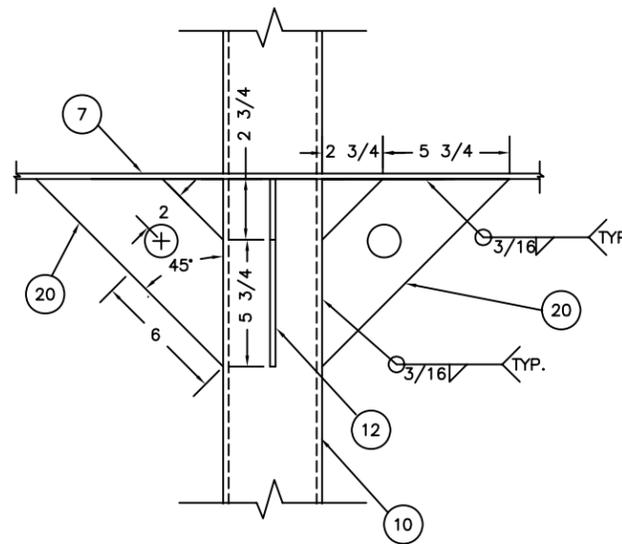
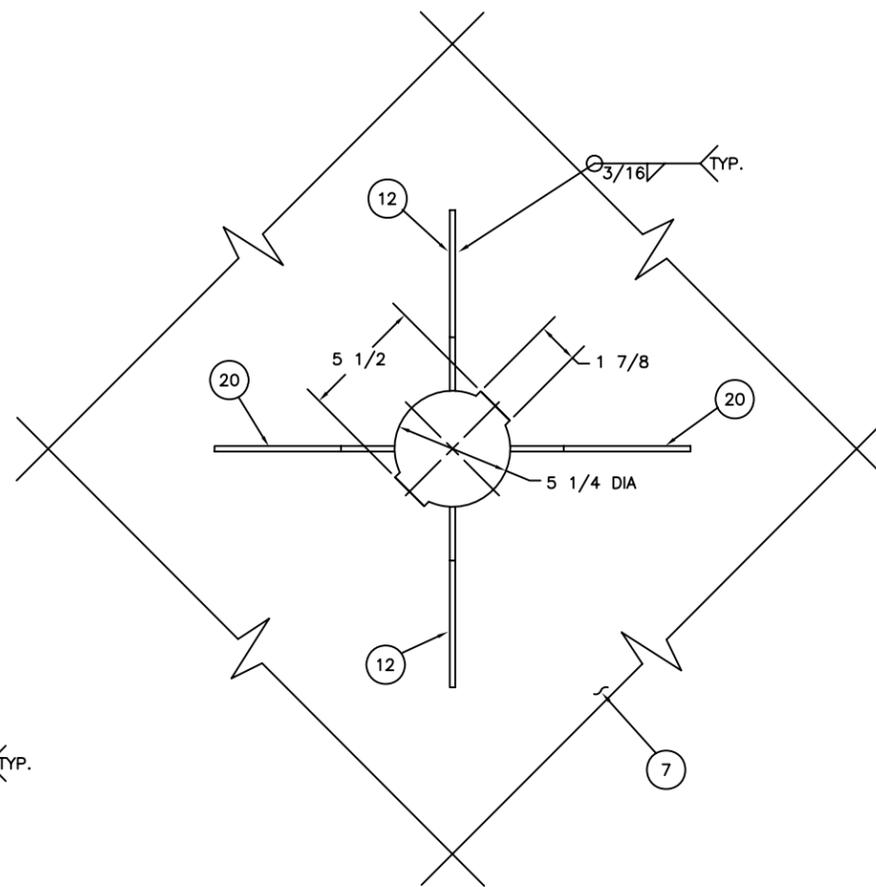
DESIGNED: D.B. DRAWN: D.B. TRACED: CHECKED: S.M. REVIEWED BY:	U.S. COAST GUARD HEADQUARTERS CIVIL ENGINEERING 3CFR AND 3NFR UNLIGHTED FOAM BUOYS
D.A. Braganza PROJECT ENGINEER REVIEWED BY: Sean McEvoy G-SEC-2B REVIEWED BY:	APPROVED: L. E. Jaeger CHIEF, OFFICE OF CIVIL ENGINEERING DATE: 09-06-95
S. D. Walker G-SEC-2	DRAWING NUMBER: 121167 REV. D
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES. TOLERANCES: DIM. ±1/8 ANG. ±1°	SCALE: AS NOTED SHEET 1 OF 3



**DETAIL A**

SCALE: HALF

NOTE: ITEM 5 BOLTS INTO ITEM 8 USING ITEMS 13, 16, AND 20



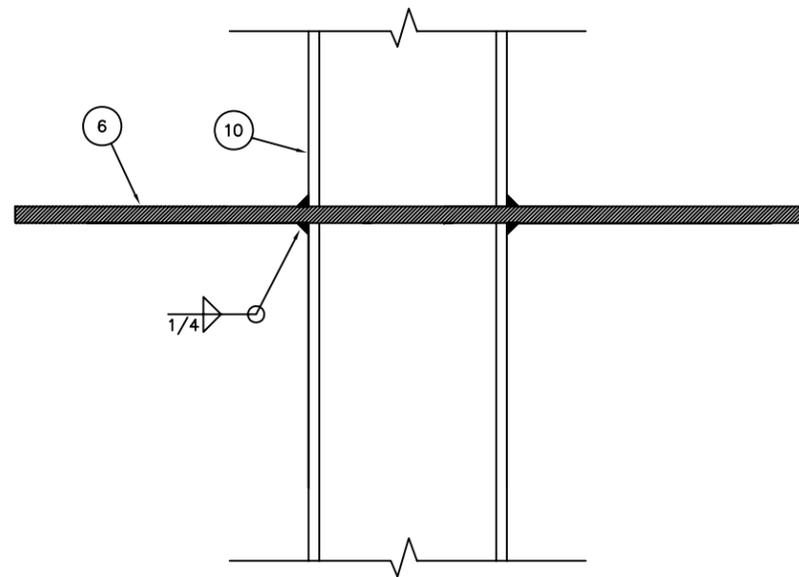
**DETAIL B**

SCALE: 3"=1'-0"  
(FOR CLARITY, THIS DETAIL HAS BEEN ROTATED 45° FROM THE VIEW ON PAGE 1)

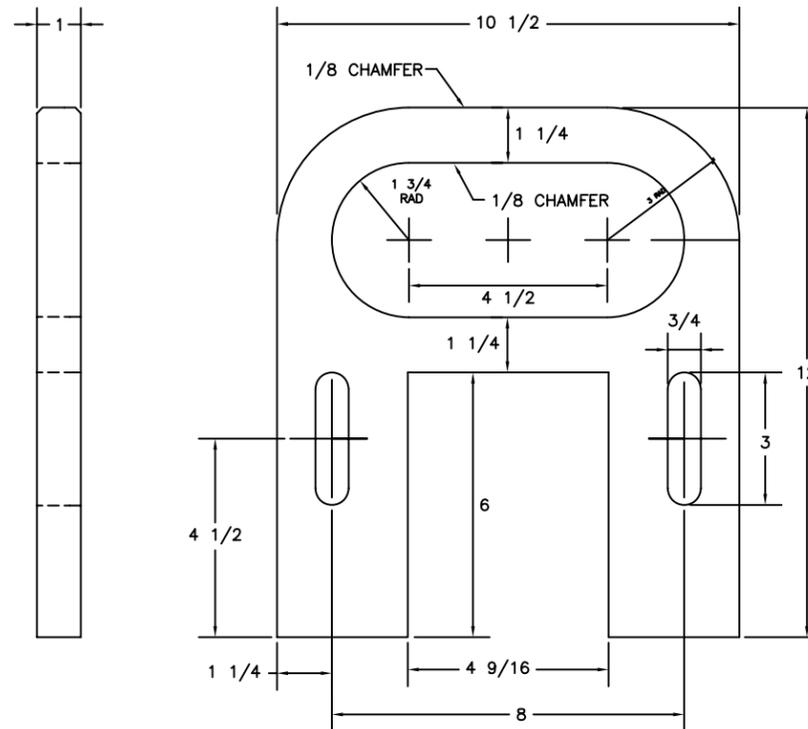
REV.	DATE	APPR.	DESCRIPTION	BY
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C	1-5-99	S.W.	MODIFIED QTY OF ITEMS 12 AND 16. ADDED ITEM 20. REORGANIZED NOTES.	S.M.
B	11-24-97	S.W.	MODIFIED SLOT DIMENSION FOR ITEM 5.	S.M.
A	1-22-97	S.W.	REORGANIZED DWG. MODIFIED ITEMS 4, 5, 7, 8, 10, 12, 13, 14, AND 15. ADDED NOTE 7. ADDED ITEM 19.	C.B.

DESIGNED: D.B.	U.S. COAST GUARD	HEADQUARTERS
DRAWN: D.B.	CIVIL ENGINEERING	
TRACED: S.M.	3CFR AND 3NFR	
CHECKED: S.M.	UNLIGHTED FOAM BUOYS	
REVIEWED BY:		
D. A. Braganza PROJECT ENGINEER		
S. McEvoy G-SEC-2B	APPROVED:	DATE
S. D. Walker G-SEC-2	L. E. Jaeger CHIEF, OFFICE OF CIVIL ENGINEERING	09-06-95
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES. TOLERANCES: DIM. ±1/8 ANG. ±1°		
DRAWING NUMBER		REV.
121167		D
SCALE: AS NOTED	SHEET 2	OF 3

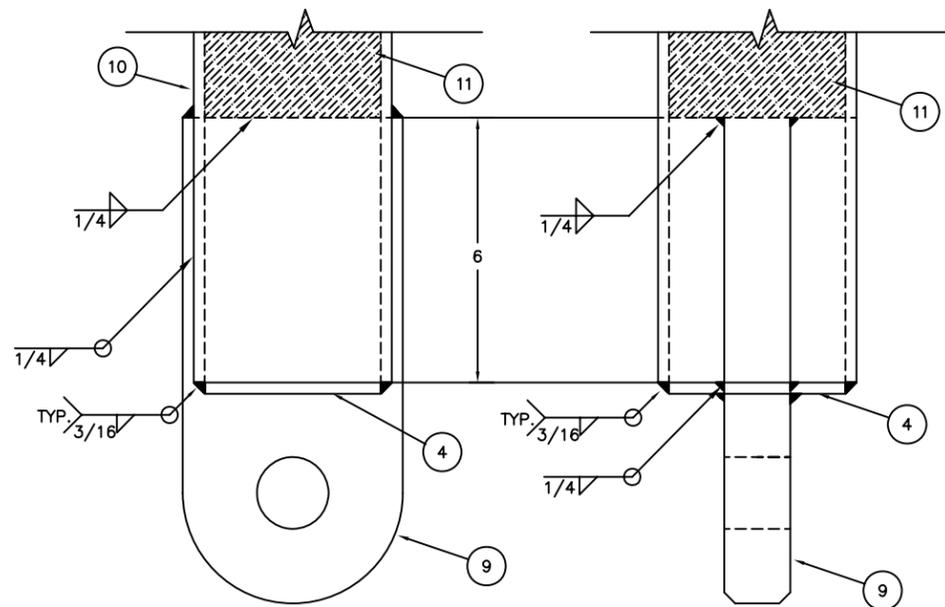


**DETAIL C**  
SCALE: HALF  
(CROSS SECTIONAL VIEW)

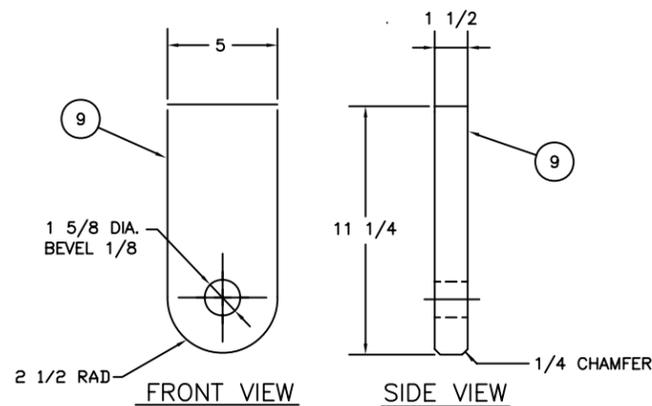


**SIDE VIEW**

**8** **DETAIL E**  
SCALE: 3"=1'-0"



**DETAIL D**  
SCALE: HALF



**9** **DETAIL G**  
SCALE: 3"=1'-0"

ITEM NO.	CFR NO. REQ.	NFR NO. REQ.	BILL OF MATERIALS		
			DESCRIPTION	MATL.	REMARKS
1	1	1	BUOY BODY	FOAM	4 PCF SEE NOTE 1
2	1	-	BUOY DAYMARK (CFR)	FOAM	4 PCF SEE NOTES 1 & 2
3	-	1	BUOY DAYMARK (NFR)	FOAM	4 PCF SEE NOTES 1 & 2
4	2	2	BOTTOM TUBE SEAL PLATES	STEEL	1/4 THK
5	1	1	TOP PLATE	STEEL	14 O.D. x 5 1/2 I.D. x 1/4 THK
6	1	1	MIDDLE PLATE	STEEL	30 SQ. x 3/8 THK.
7	1	1	BOTTOM PLATE	STEEL	24 SQ. x 1/4 THK.
8	1	1	TOP LIFT EYE	STEEL	1 THK
9	1	1	MOORING EYE	STEEL	1 1/2 THK
10	1	1	CENTER PIPE	STEEL	4 SCH. 40 PIPE x 96 LG.
11	1	1	BALLAST	STEEL	4 O.D. x 18 LG. SOLID STEEL
12	4	4	BOTTOM SUPPORT GUSSETS	STEEL	1/4 THK
13	2	2	NYLOCK NUT	STAINLESS STEEL	5/8-11 UNC
14	4	4	WASHERS	STAINLESS STEEL	5/8 NOMINAL
15	2	2	ATTACHMENT BOLTS	STAINLESS STEEL	5/8-11UNCX2-1/2LG
16	3	3	RADAR REFLECTOR		MOBRI M4
17	3	-	RETROREFLECTIVE MATERIAL	---	6 x 21.5 SEE NOTE 4
18	-	3	RETROREFLECTIVE MATERIAL	---	6 x 17 SEE NOTE 4
19	1	1	TOP TUBE SEAL PLATE	STEEL	1/4 THK
20	2	2	UPPER MOORING EYE	STEEL	3/4 THK

**NOTES:**

- SEE LATEST REVISION OF U.S.C.G. CIVIL ENGINEERING SPECIFICATION No. 450 FOR FABRICATION REQUIREMENTS.
- CUT HOLES IN ITEMS 2 & 3 TO PERMIT A TIGHT FIT WITH ITEM 16. FILL VOID WITH IONOMER FOAM PLUGS.
- INSTALL ITEM 16, 120 DEGREES APART.
- COMPRESS FOAM WITH PART 6 UNTIL IT IS COMPRESSED INTO PART 1, APPROXIMATELY 1/4".
- INSTALL ITEMS 17 AND 18, 120 DEGREES APART AND SIX INCHES FROM THE TOP OF THE BODY.

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DESIGNED: D.B. DRAWN: D.B. TRACED: S.M. CHECKED: S.M. REVIEWED BY:	U.S. COAST GUARD HEADQUARTERS CIVIL ENGINEERING 3CFR AND 3NFR UNLIGHTED FOAM BUOYS
D. A. Braganza PROJECT ENGINEER REVIEWED BY:	
S. McEvoy G-SEC-2B REVIEWED BY:	
S. D. Walker G-SEC-2 REVIEWED BY:	APPROVED: L. E. Jaeger CHIEF, OFFICE OF CIVIL ENGINEERING
	DATE: 09-06-95

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES. TOLERANCES: DIM. ±1/8 ANG. ±1°	DRAWING NUMBER 121167	REV. D
	SCALE: AS NOTED	SHEET 3 OF 3