

VK
588
.A98
1985

Attachment 1

AUTOMATED GRAPHICS SPECIFICATIONS
SOURCE CARTOGRAPHIC CODES SYMBOLS
TABLES B-1 THROUGH B-9

Nautical Charting Division
Charting and Geodetic Services
National Ocean Service

January 23, 1985

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration

VK
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SP B1-9/KEN

Automated Graphics Specifications
For Features Shown on
Hydrographic Survey Smooth Sheets and Shoreline Maps
Tables B-1 through B-9

The following symbol specifications pertain to features shown in source cartographic code tables B-1 through B-9.

Notes:

1. All line weights are 0.25 mm unless noted otherwise.
2. All symbols are inked in black ink unless noted otherwise in parentheses in the "Cartographic Codes" column.

Symbol Number	Specifications	Cartographic Codes	Table	Remarks
1.	See Attachment 1	139 (red) 020 (red)	B-1 and B-8 B-10	
2.	See Attachment 2	250 (red)	B-1	
3.	See Attachment 3	254 (red)	B-1	
4.	See Attachment 4	243 (red) 252 (blue) 253 (green)	B-1 and B-8 B-1 B-1	
5.	Solid line line weight: 0.4 mm	007 144 (red)	B-5 B-5	
5a.	Solid line line weight: 0.2 mm	013 (orange) 004 044 109 489 003 016 027 030 031 038 040 041 043 055 057 425	B-2 B-3, Part 3 B-5	
		190 (red)	B-5	
6.	Dots (0.25 mm) spaced 1.0 mm between centers	008	B-2	
7.	Dashed line (See Attachment 5, part C)	188 (orange) 189 (red)	B-2 B-5	
8.	Dashed line (See Attachment 6, part A)	001 145 (red)	B-5 B-5	

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National Oceanic &
Atmospheric Administration
US Dept of Commerce

Automated Graphic Specifications... (continued)
Tables B-1 through B-9

Symbol Number	Specifications	Cartographic Codes	Table	Remarks
9.	Dashed line (See Attachment 5, part A)	002 009 045 060 107 108 869 923 927	B-3, Part 1	
		285 802 892 925 930	B-3, Part 2	
		260 883 921 926	B-3, Part 3	
		011 121 122 438 477 871 872 894	B-3, Part 4	
		026 029 042 228 877	B-5	
9a.	Dashed line (See Attachment 5, part B)	118 147 791 801 803	B-3, Part 1	
		801 808 862	B-5	
10.	See Attachment 7	530	B-2	
10a.	See Attachment 8	531	B-2	
11.	See Attachment 9	089	B-3, Part 1	
		089 094 291	B-3, Part 2	
12.	See Attachment 10	099 100	B-3, Part 1	
13.	See Attachment 11	104 919	B-3, Part 1	
14.	See Attachment 12	890 891	B-3, Part 1	
		286 893	B-3, Part 2	
		884 886	B-3, Part 3	
15.	See Attachment 13	111 241 248 249 885	B-3, Part 3	
16.	See Attachment 14	097 934 (red)	B-3, Part 3	

Automated Graphic Specifications...(continued)
Tables B-1 through B-9

Symbol Number	Specifications	Cartographic Codes	Table	Remarks
17.	See Attachment 15	098	B-3, Part 2	
18.	Circle: 1.0 mm diameter See Attachment 6, Part B	056 233 234 235 236 237 238 287 278 279 280 281 282 283 284 010 085 105 106 110 230 231 232 889 221 222 229 246 247 261	B-3, Part 1 B-3, Part 2 B-3, Part 3 B-8	
19.	See Attachment 16	103	B-3, Part 4	
20.	See Attachment 17	212 256 255 (red fill) 481 (green fill)	B-6	
20a	See Attachment 18	257 (red fill) 258 (black fill) 259 947 482 (green fill)	B-6	
21.	See Attachment 19	214	B-6	
21a.	See Attachment 20	124	B-6	
22.	See Attachment 21	216	B-6	
22a.	See Attachment 22	182	B-6	
23.	See Attachment 23	218	B-6	
24.	See Attachment 24	217	B-6	
25.	See Attachment 25	215	B-6	
25a.	See Attachment 25a	498	B-6	

Automated Graphic Specifications...(continued)
Tables B-1 through B-9

Symbol Number	Specifications	Cartographic Codes	Table	Remarks
26.	See Attachment 26	219 223 224 767 906 907	B-8	Color filled as appropriate
27.	See Attachment 27, part A	086 200 208 209 993	B-8 B-10	
28.	See Attachment 27, part B	244 (blue) 245 (blue)	B-9	
29.	Lettering: 2.0 mm high, slanted 20° clockwise from vertical. (Upper and lower case lettering)	146 533 534 535 536 537 538 539 599 550 551 552 553 558 559 560 562 566 567 568 575 580 591 593 594 595 545 548 555 557 572 573 574 576 578 579 583 597 556 598 569 570 571 577 581 582 584 586 587 588	B-3, Part 4 B-7 B-7 B-7	Nouns Adjectives Colors
30.	See Attachment 28	039	B-5	
31.	See Attachment 29, part A	480	B-9	
31a.	See Attachment 29, part B	702	B-9	
32.	Circle (solid line), radius: 4.0 mm	990	B-9	

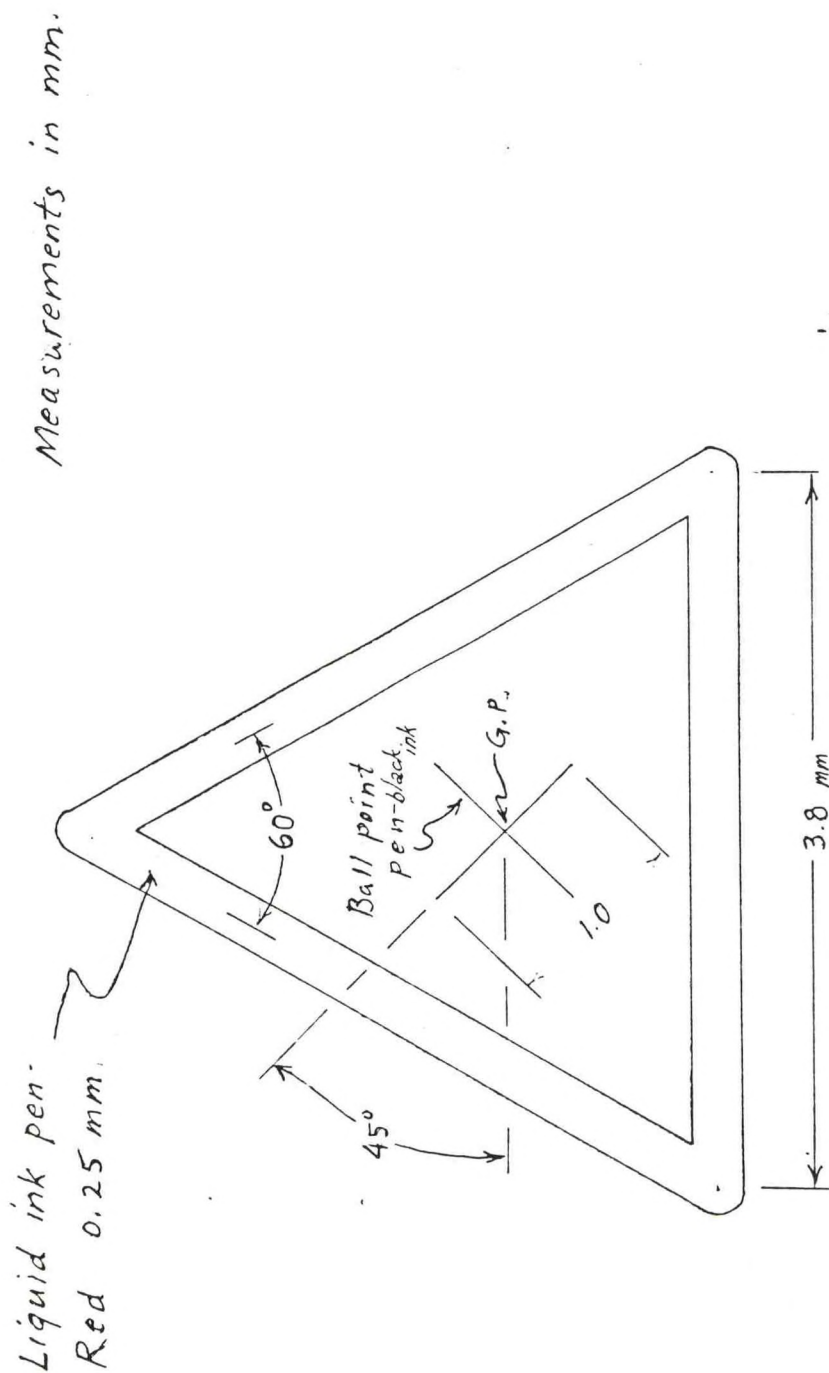
Automated Graphic Specifications...(continued)
Tables B-1 through B-9

Symbol Number	Specifications	Cartographic Codes	Table	Remarks
33.	Dashed circle (See Attachment 30)	991	B-9	
34.	Square (solid line) 8.0 mm sides; centered over the G. P. of the feature.	992	B-9	
35.	Soundings (Drawn per specifications in section 7.3.8 of the Hydrographic Manual-Fourth Edition.) Optimum lettering size: 2.2 mm Lettering orientation: Vertical.	090 091 092 095 101 126 127 128 129 130 131 134 135 136 137 138 141 142 148 149 239 240 251 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 290 710 711 920	B-4	
36.	Circle (solid line)§ radius: 3.0 mm	920 (green)	B-4	
37.	Solid line¶ line weight: 0.15 mm	059	B-5	
38.	See Attachment 31	211	B-6	
39.	See Attachment 32	472	B-6	
40.	See Attachment 33	787	B-6	

§ The green circle will be used to circumscribe a wire-drag hang or grounding depth only when such a depth is shown on a wire-drag survey. When such a depth is carried forward to supplement a hydrographic survey, the appropriate cartographic code for a sounding without the green circle should be used.

¶ The formal specifications are pending development by N/CG22. For the present, each arm of the V-shaped bridge termini is 1.0 mm in length and drawn at a 45° angle to the axis of the bridge. If the final N/CG22 specifications are at variance with the foregoing, they will be adapted for inclusion in this table when they become available from N/CG22.

Symbol #1
Carto Codes:
139
020



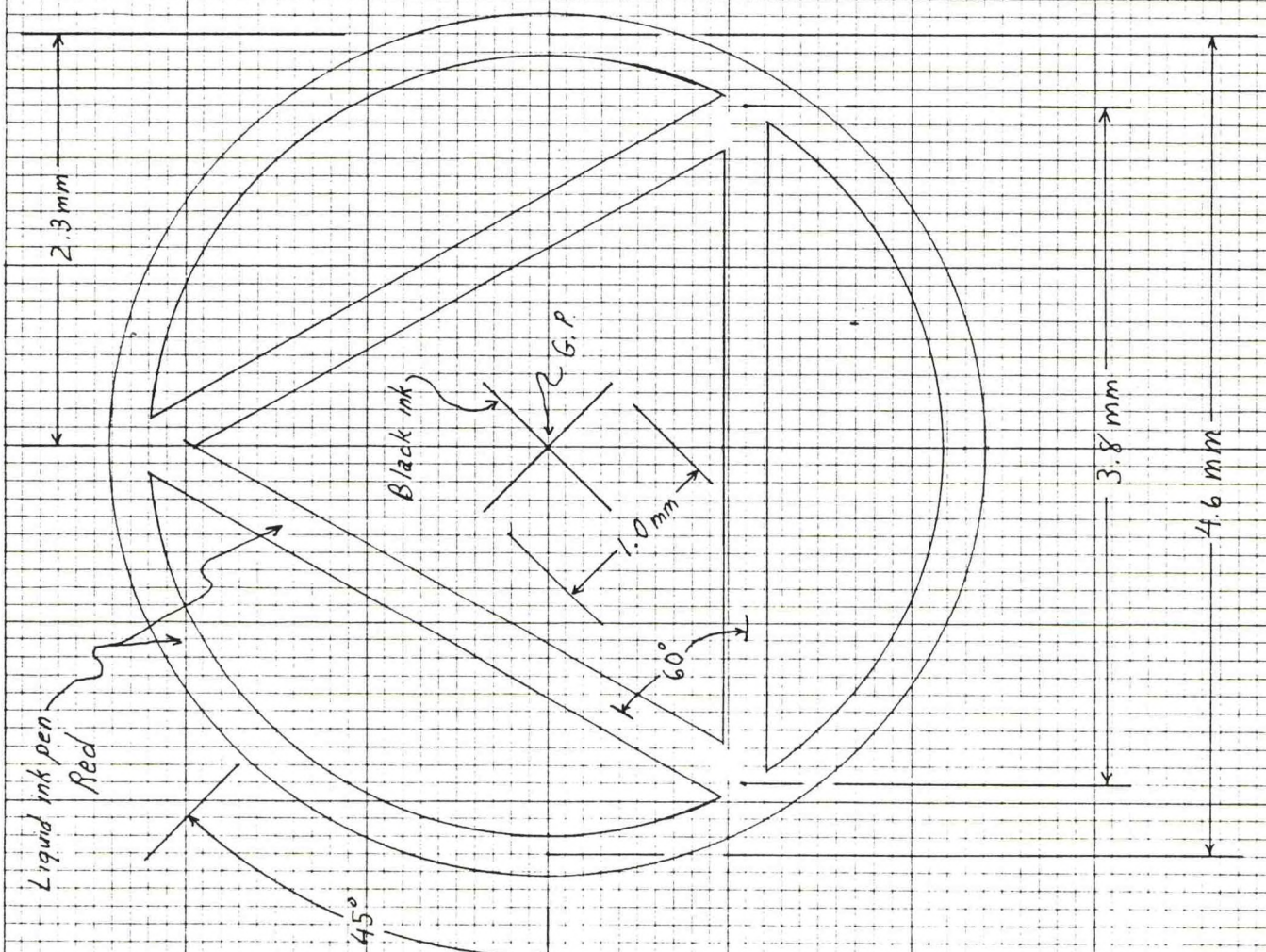
CARTO. CODES 139 and 020

Basic or Supplemental Control

Station

(Recoverable)

Attachment 2
 Symbol #2
 Carto Code:
 250

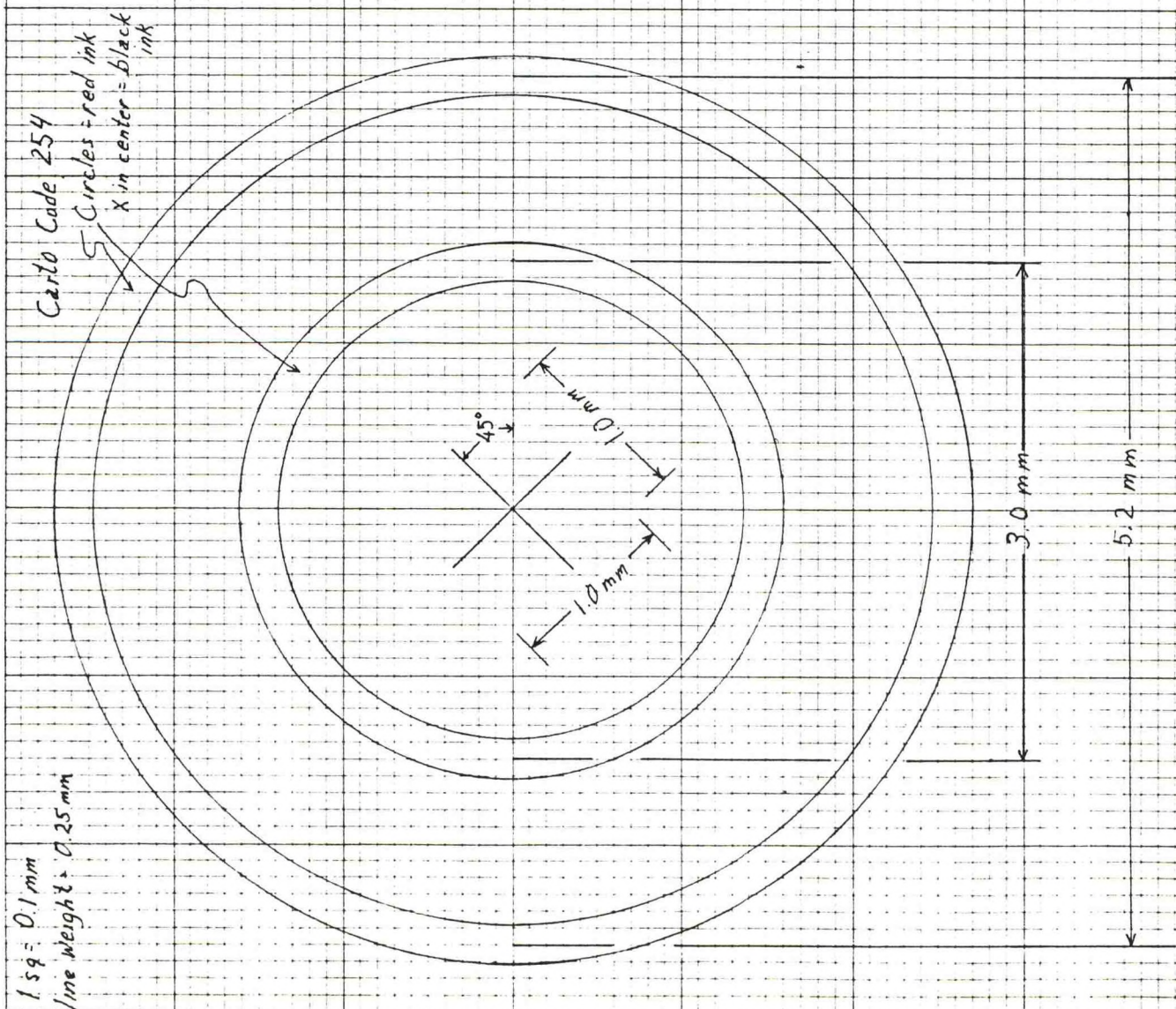


1 sq = 0.1 mm
 line weight = 0.25 mm

Carto Code
 250

FILED 10 X 10 TO 1 INCH
 10TH LINE HEAVY

JAN 23 1985



Carto Code 254

Circles = red ink
 X in center = black ink

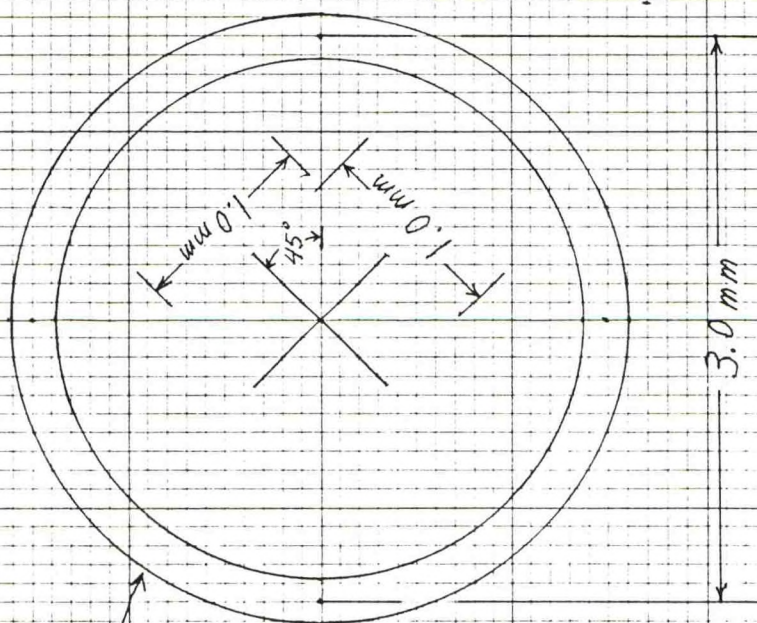
1 sq = 0.1 mm
 Line weight = 0.25 mm

PERFORM TO X 10 TO 1 INCH
 100% LINE HEAVY

243

252

253



1 sq. = 0.1 mm
Line weight = 0.25 mm

Liquid ink pen
0.25 mm

Carto Codes

243 (Red ink)

252 (Blue ink)

253 (Green ink)

X in Center = black ink

Part A

Symbol #9

Carto Codes:

002 009 045

060 107 108

869 923 927

260 285 802

883 892 921

925 926 930

011 121 477

871 872

894 877

026 029 042

228 122 438

Part B

Symbol #9a

Carto Codes:

118 147 791

801 803 808

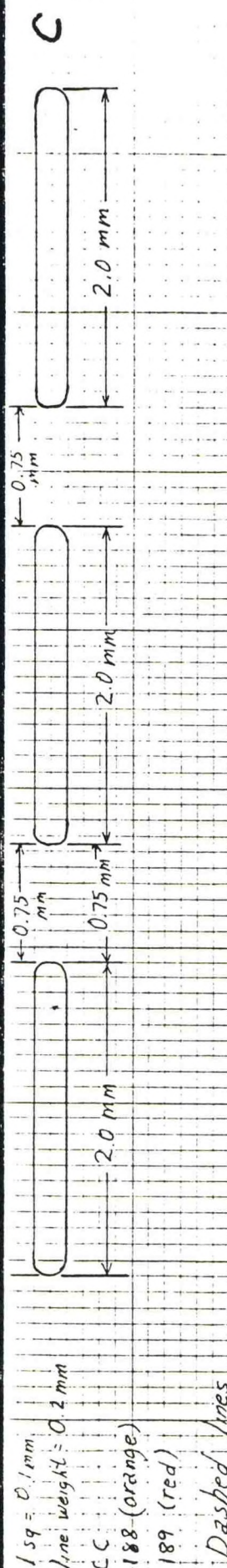
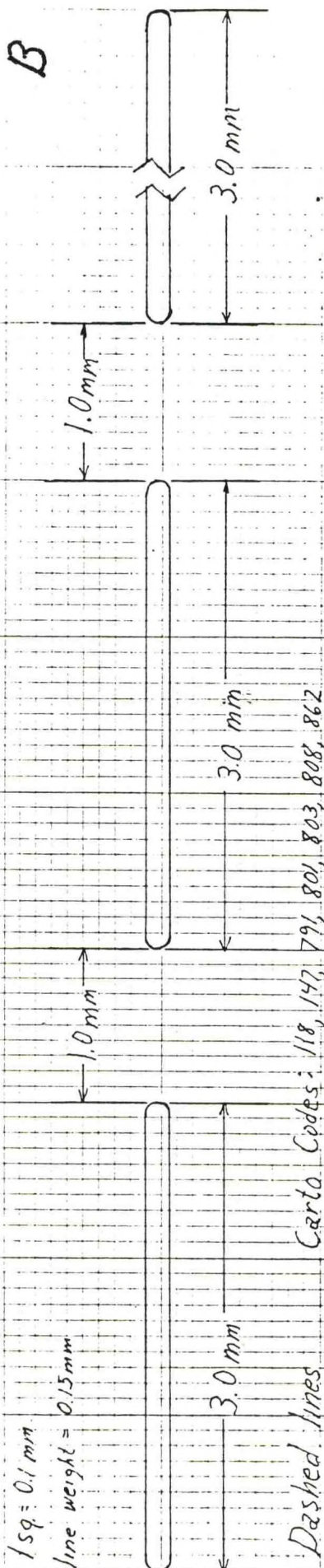
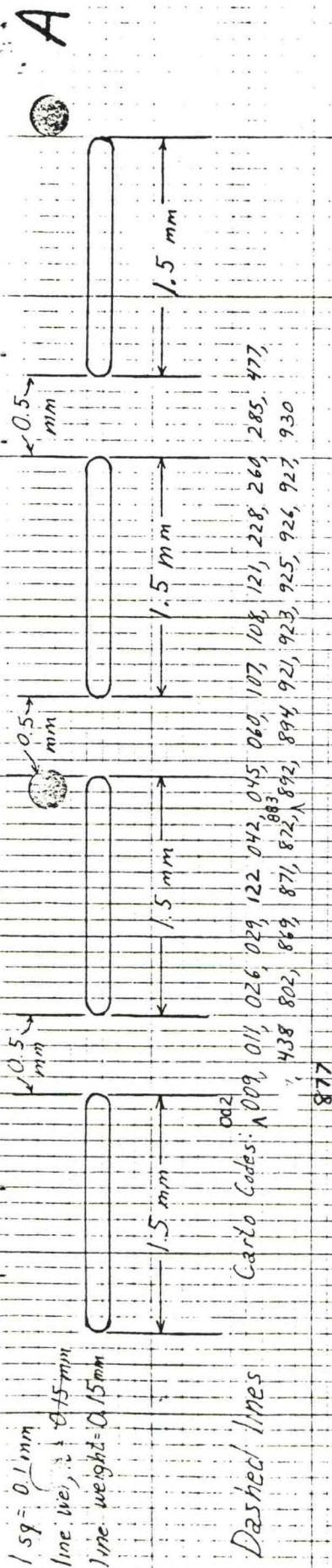
862

Part C

Symbol #7

Carto Codes:

188 189



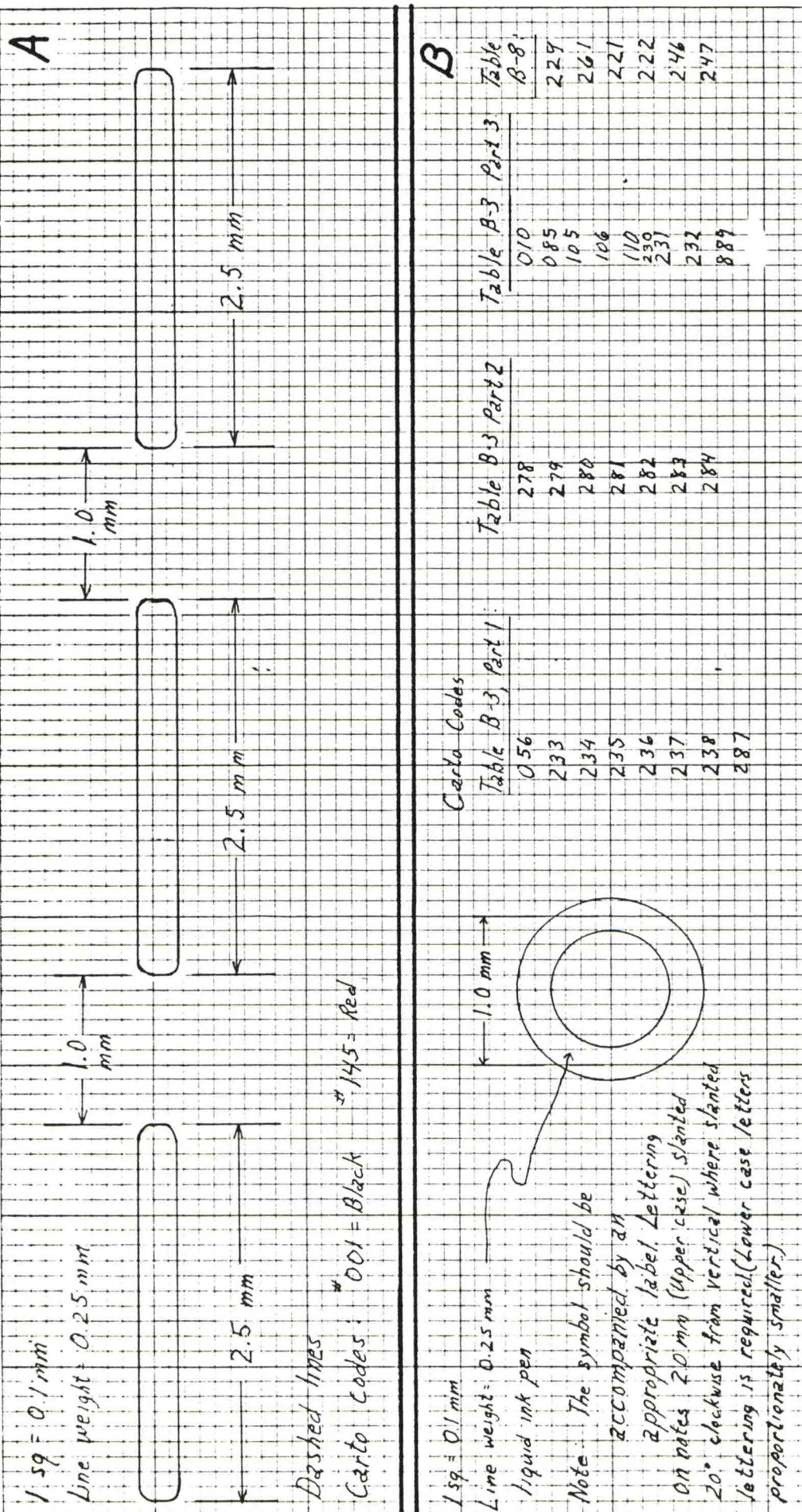
Part A

Symbol #8

Carto Codes:
001 145

Part B

Symbol #18

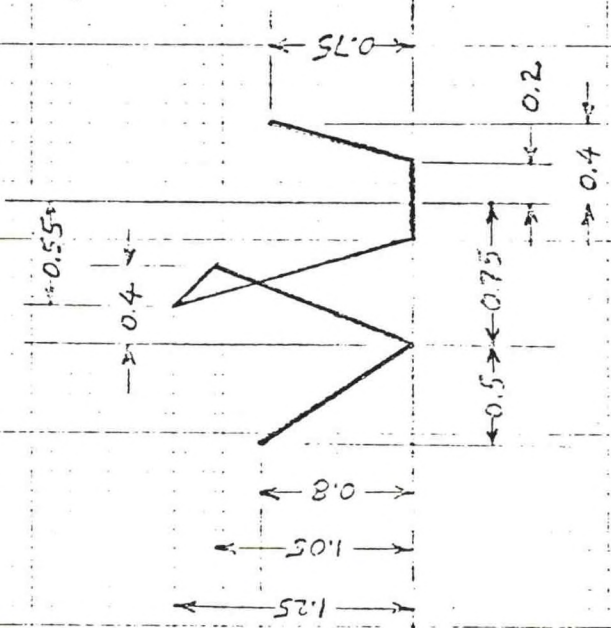
Carto Codes:
056 233 234
235 236 237
238 287278 279 280
281 282 283
284010 085 105
106 110 230
231 232 889221 222 229
246 247 261

Measurements in mm

Line Weight = 0.15 mm

Measurements in mm

Digitized ledge limit line



Repeat clockwise with land on right
 Include option for reversing (ccw, land on left)

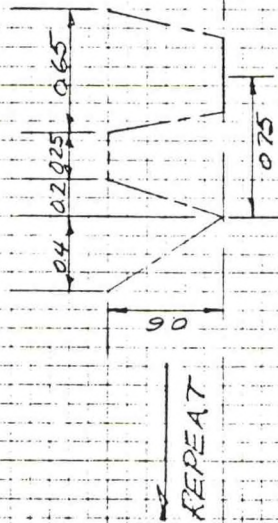
D.E.W.
 11/8/78

REPEAT
 SYMBOL

Ledge and Reef
 Carto, Code

530

Measurements in mm



Digitized Ledge Limit

1 sq. = 0.1 mm
 Line Wt. 0.15 mm
 All dimensions ref.
 to 0
 LEDGE, HALF SIZE

Basic Symbol Unit

Repeat CW with land on right

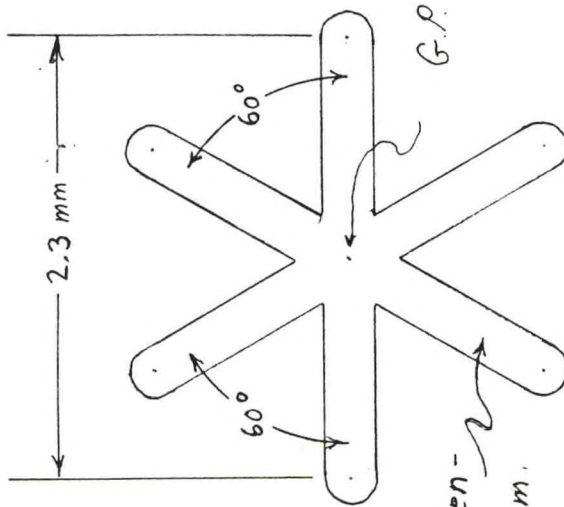
Include option for reversing (CCW land on left)

089

094

291

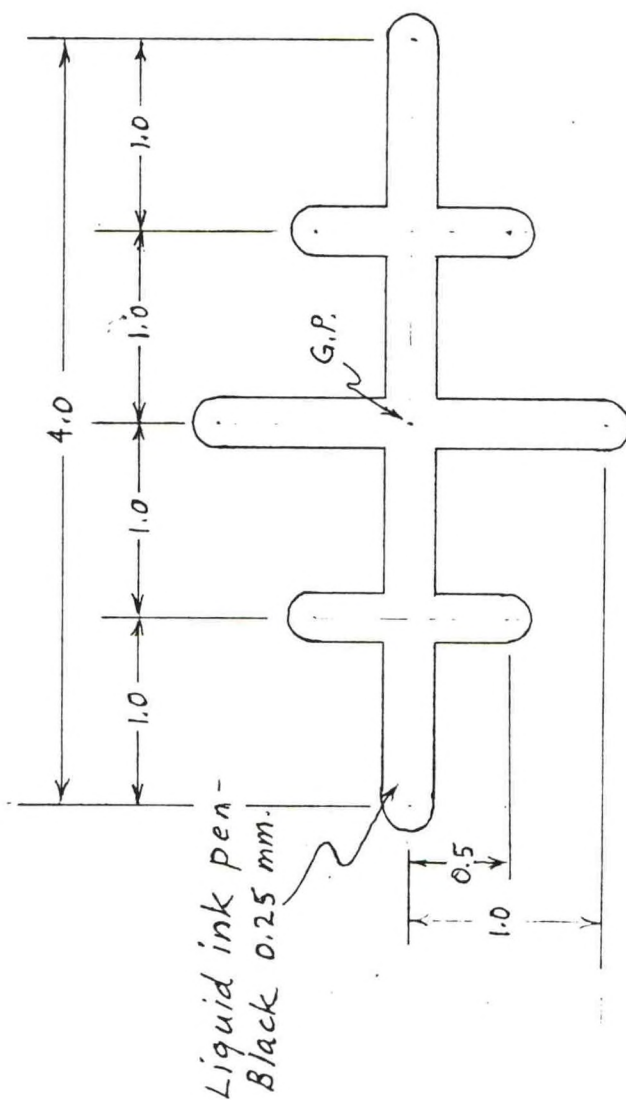
Measurements in mm.



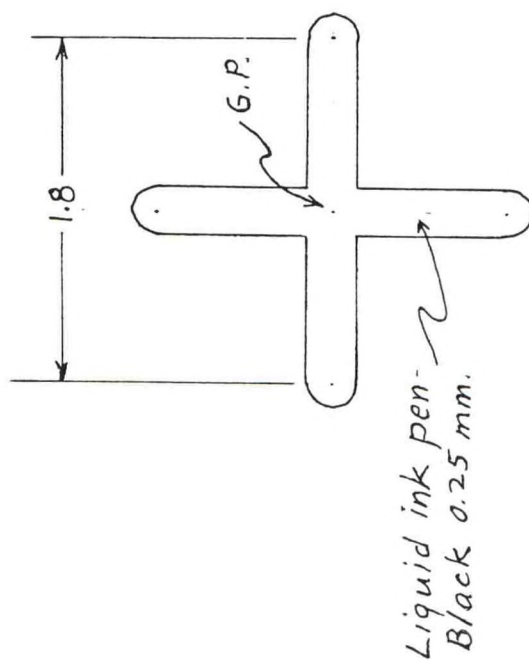
CARTO. CODES: 094, 089, and 291

099

100

Measurements in mm.*CARTO. CODES**099 - Wreck (submerged)
masts visible**100 - Wreck (submerged)*

Measurements in mm.

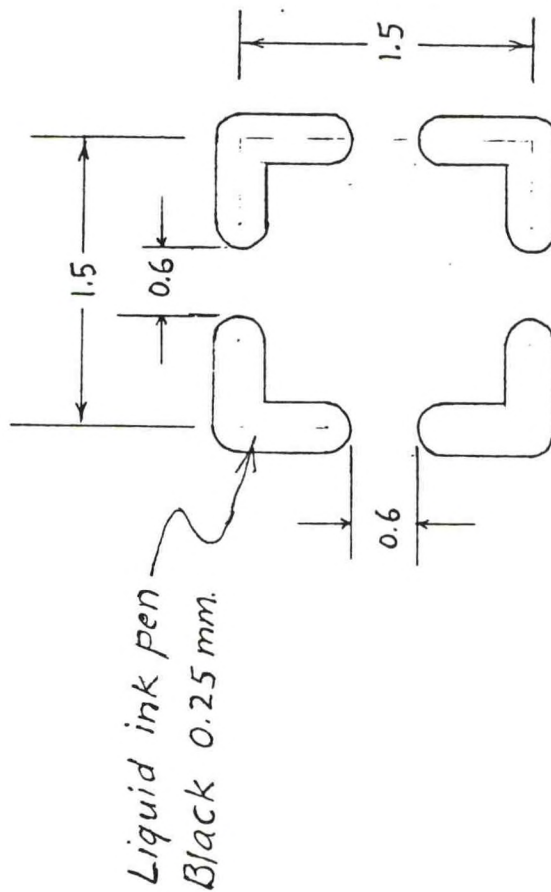


Symbol #14

286 884 886

890 891 893

Measurements in mm.



Note:

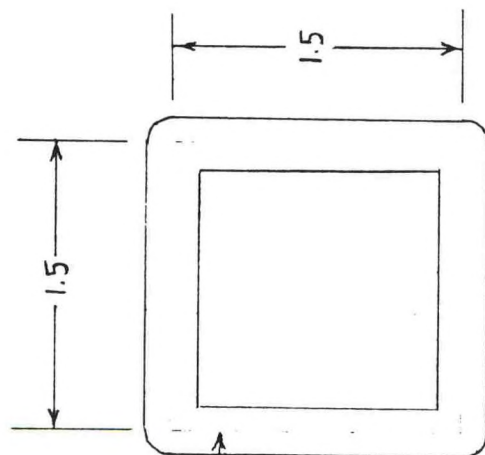
This symbol should be used only when size of feature is too small to show at full scale on survey.

Symbol should be accompanied by an appropriate label.

CARTO. CODES

890, 286, 886, 891, 893, 884

Measurements in mm.



Liquid ink pen
Black 0.25 mm.

Note:

This symbol should be used only when size of feature is too small to show at full scale on survey.

Symbol should be accompanied by an appropriate label.

CARTO. CODES

- 111 - Platform (Oil or gas)
- 241 - Crib (Symbol)
- 248 - Platform (Survey, etc.)
- 249 - Platform (Lighted)
- 885 - Duck Blind

Measurements in mm.

CARTO CODE

097 - Islet symbol

(with or without

elevation)
Elevation in red (P shown)

934 - Same

(except islet in red
elev. in black)

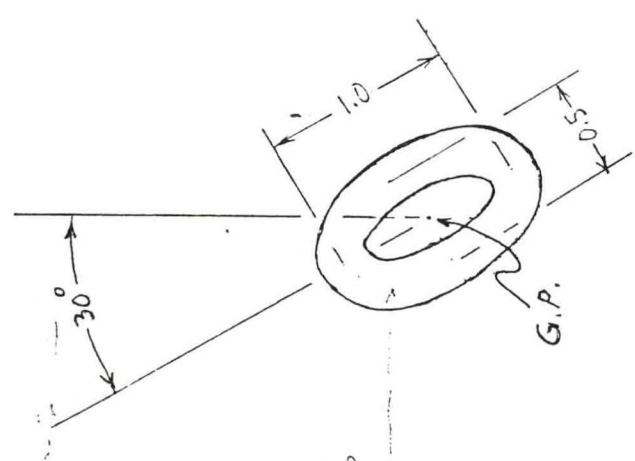
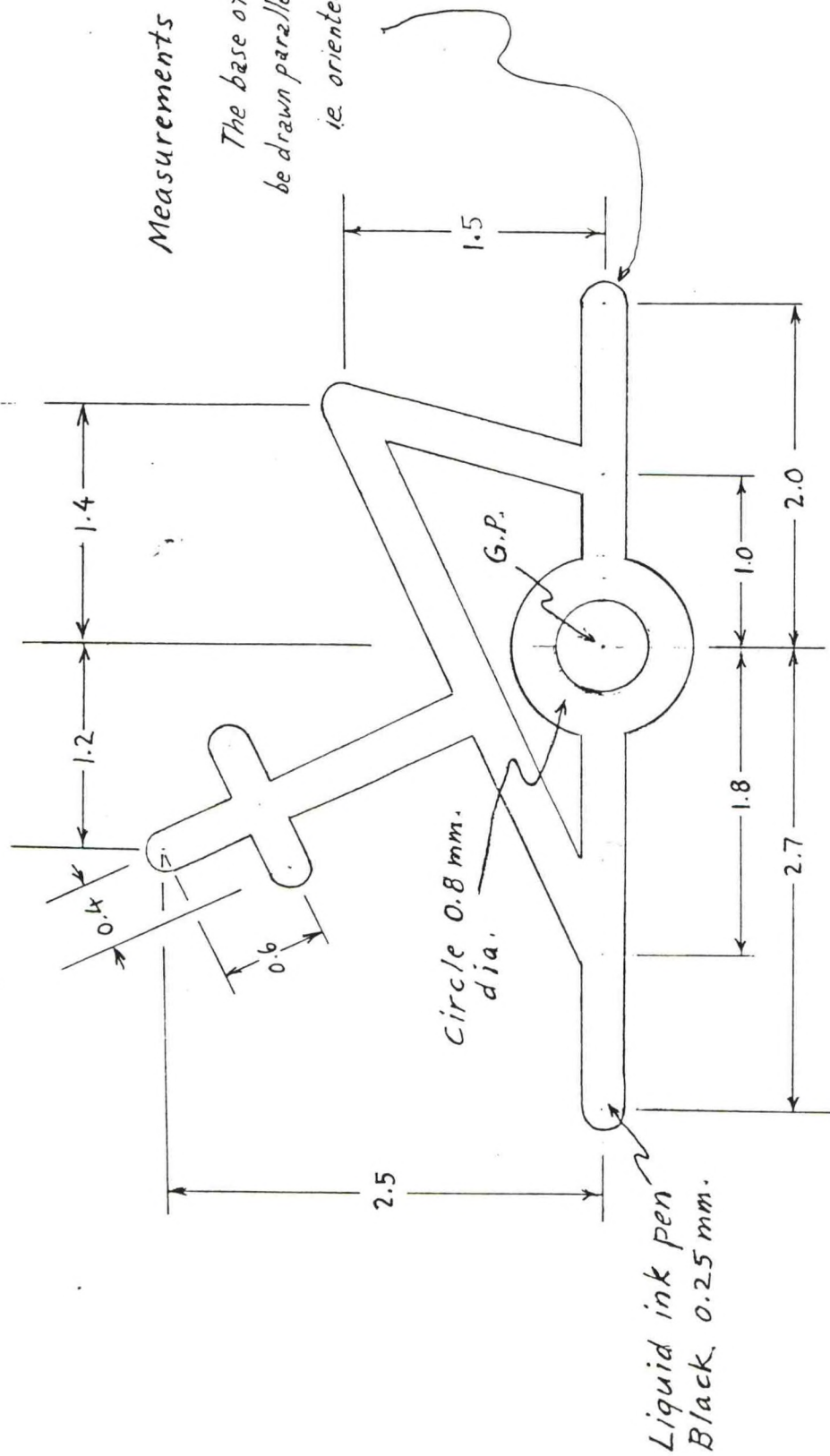


Figure drawn should
approximate an ellipse

D.C.C.
5/2/75

Attachment 14
Symbol #16
Carto Code:
097
934

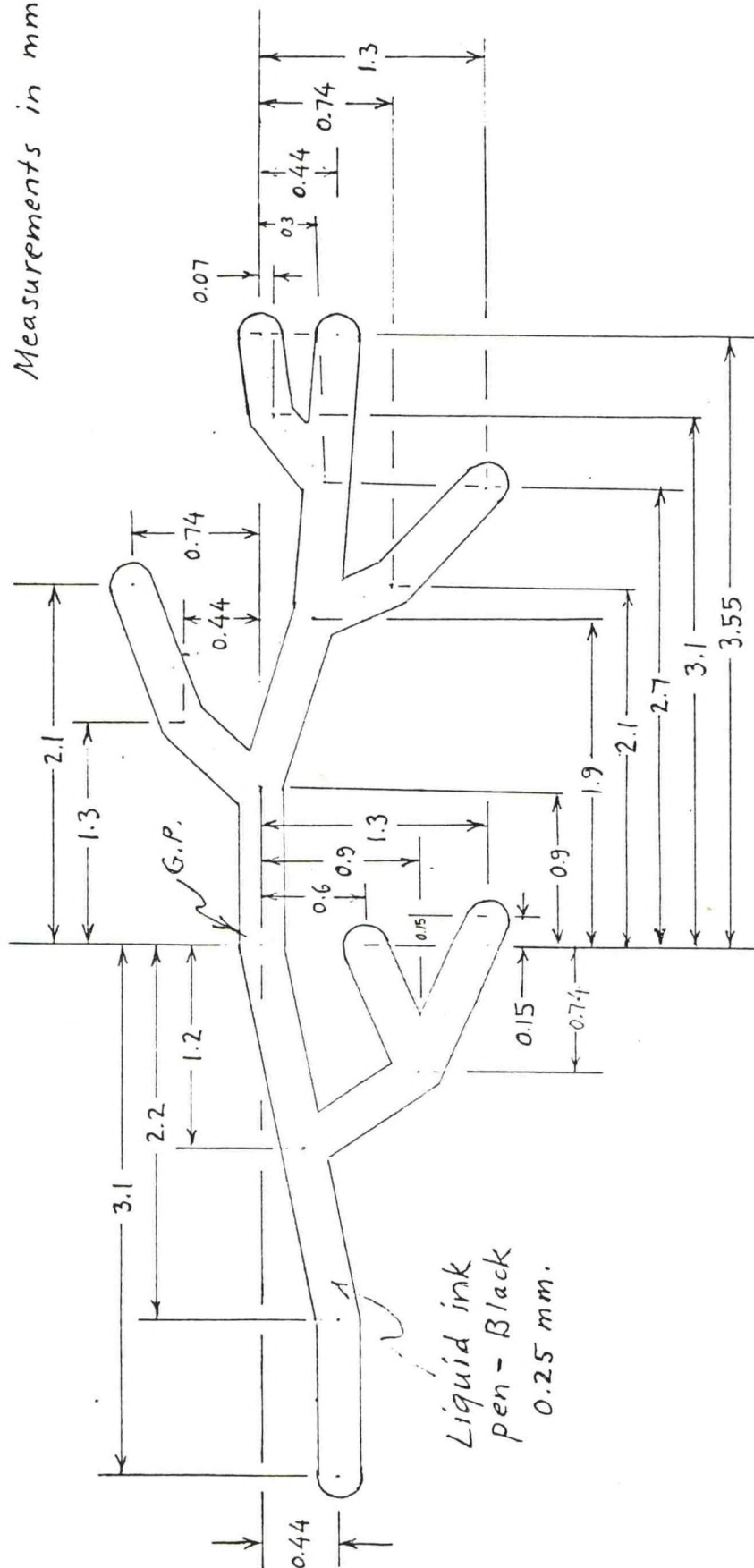
The base of the symbol is to be drawn parallel to a line of latitude i.e. oriented east-west



CARTO. CODE

098 - Visible wreck

Measurements in mm.



Symbol #20

Carto Codes:

212
255
256
481

CARTO. CODES

255 - Red buoy

256 - Black buoy

212 - Open buoy

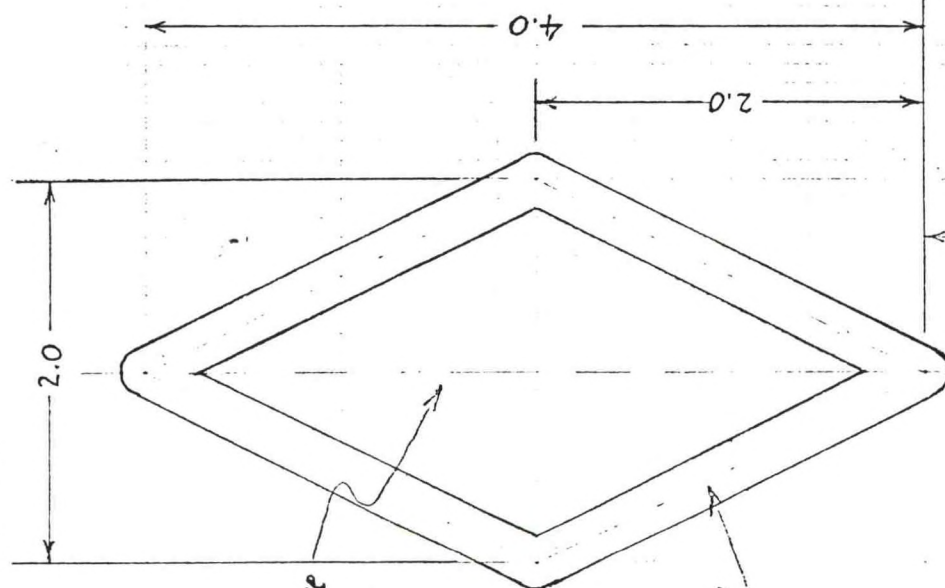
symbol

481 - Green buoy

Note:

Buoy symbol may
be rotated as

desired. However, the
preferred orientation of the diamond symbol
is slanted 30° clockwise from vertical.



Buoy symbol
filled with appropriate
color

Liquid ink pen -
Black 0.25 mm



0.5 mm. diameter
dot - radius of
one pen width

257
258
259
482
947

CARTO, CODES

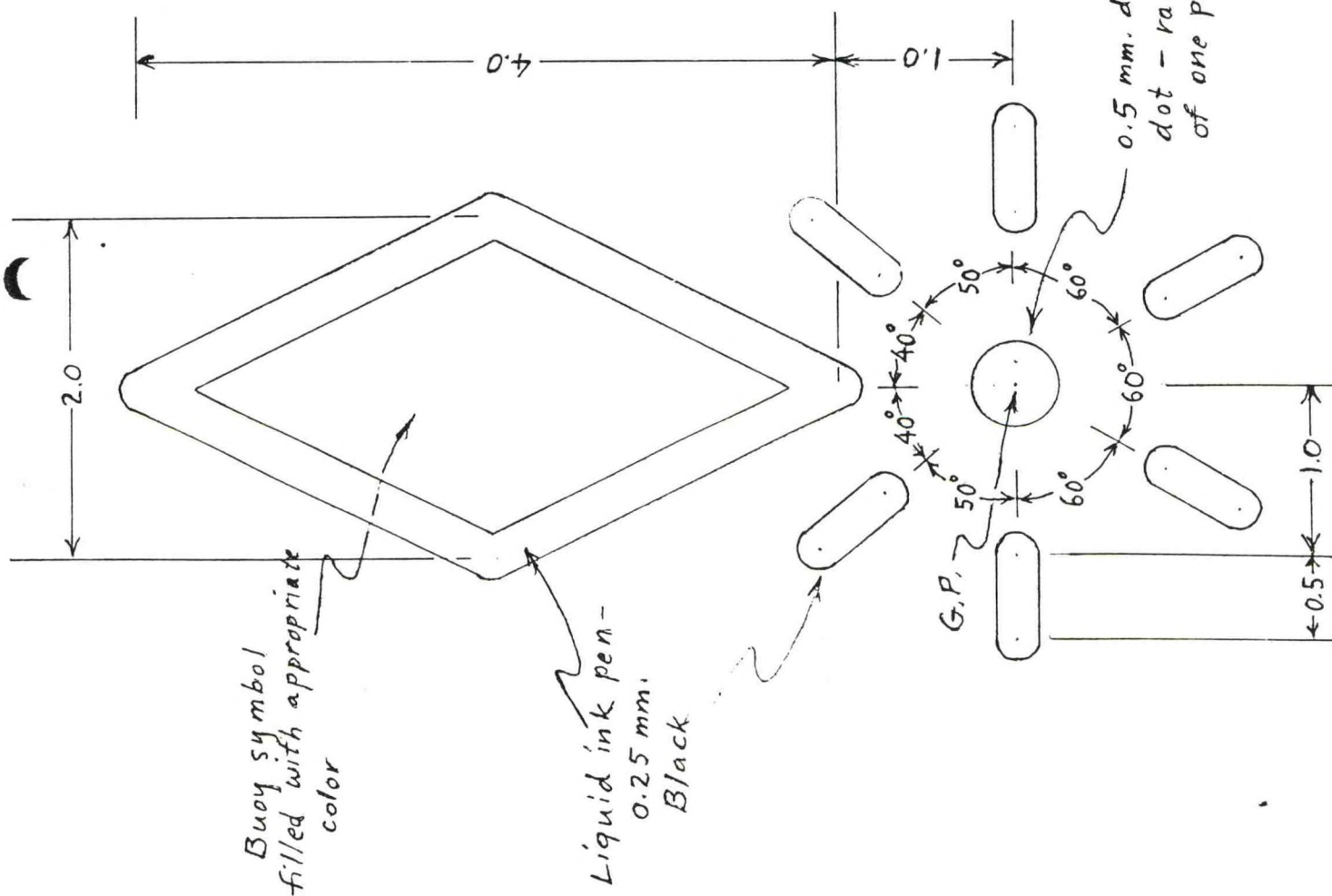
257, 258, 259, 482, 947

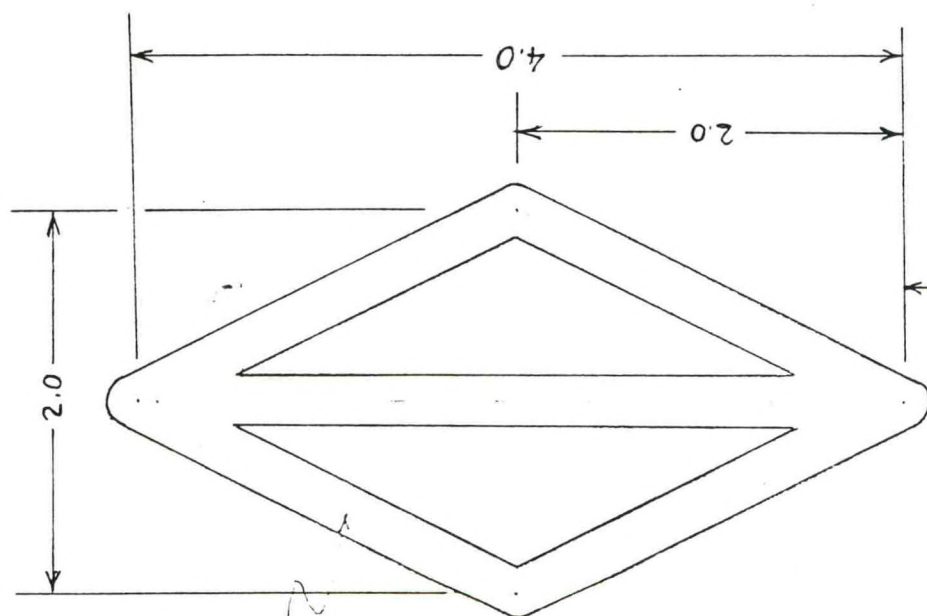
Lighted Buoy

Note:

Buoy symbol may be rotated as

desired. However, the preferred orientation of the diamond symbol is slanted 30° clockwise from vertical.





Liquid ink pen -
Black 0.25 mm.

Measurements in mm.

CARTO. CODE

214 - Vertically
striped buoy

Note:

Buoy symbol may
be rotated as

desired. However, the preferred
orientation of the diamond symbol is
slanted 30° clockwise from vertical.

G.P. → 0.5 mm. diameter
dot - radius of
one pen width

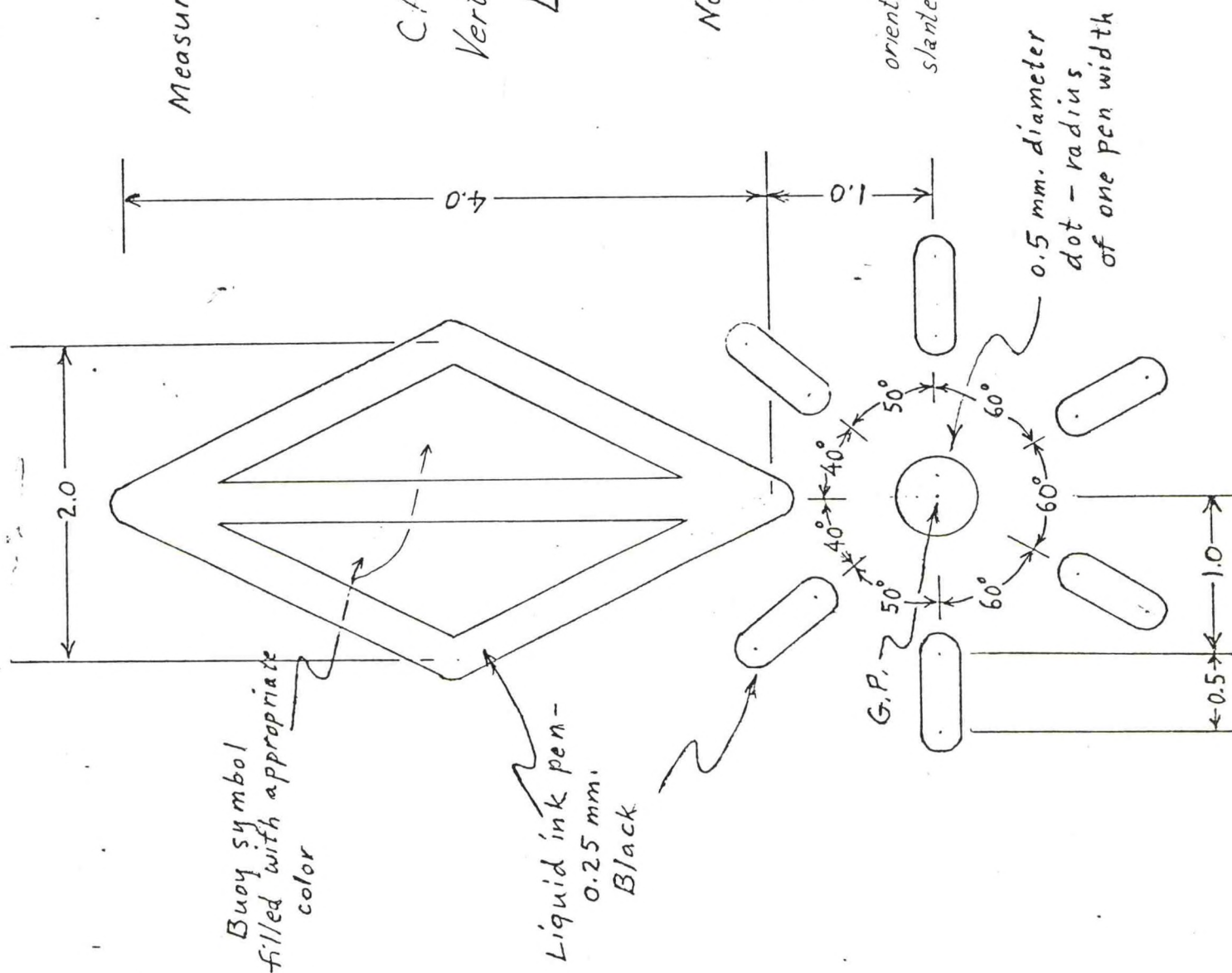
Measurements in mm,

CARTO, CODE: 124
Vertically striped
Lighted Buoy

Note:

Buoy symbol may
be rotated as

desired. However, the preferred
orientation of the diamond symbol is
slanted 30° clockwise from vertical.



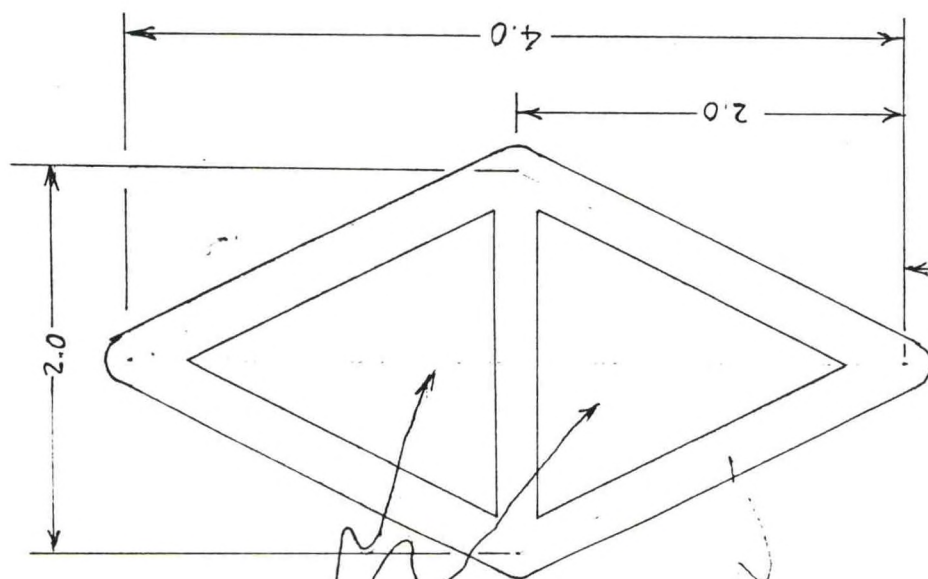
measurements in mm.

CARTO. CODE
216 - Horizontally
banded buoy

Note;

Buoy symbol may
be rotated as

desired. However, the preferred
orientation of the diamond symbol is slanted
30° clockwise from vertical.



Appropriate
color fill in
top or bottom
halves.

Liquid ink pen -
Black 0.25 mm.

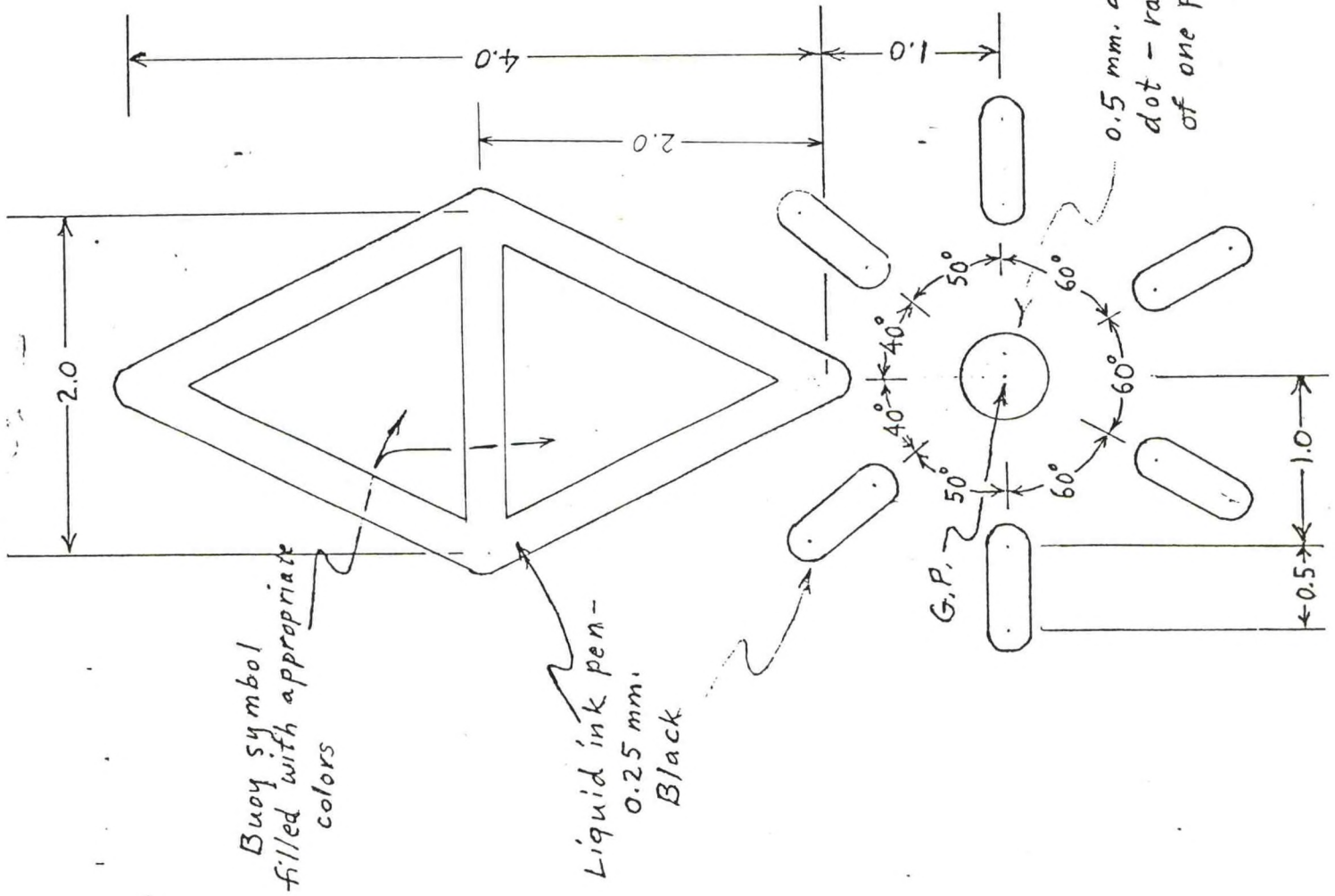
G.P.

0.5 mm. diameter
dot - radius of
one pen width

Lighted Buoy

Buoy symbol may be rotated as

desired. However, the preferred orientation of the diamond symbol is slanted 30° clockwise from vertical.



Symbol #23

Carto Code:

218

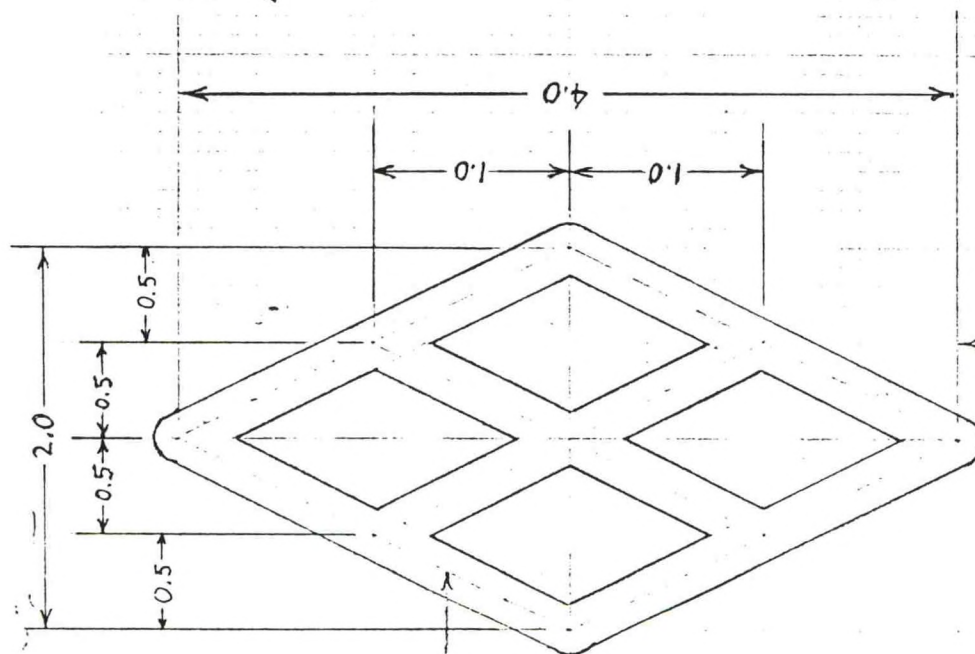
472

Measurements in mm.

CARTO. CODE

218 - Checkered
buoy

Note;

Buoy symbol may
be rotated as
desired. However, thepreferred orientation of the diamond symbol
is slanted 30° clockwise from vertical.Liquid ink pen -
Black 0.25 mm.

G.P.

0.5 mm. diameter
dot - radius of
one pen width

Symbol #24

Carto Code:

217

211

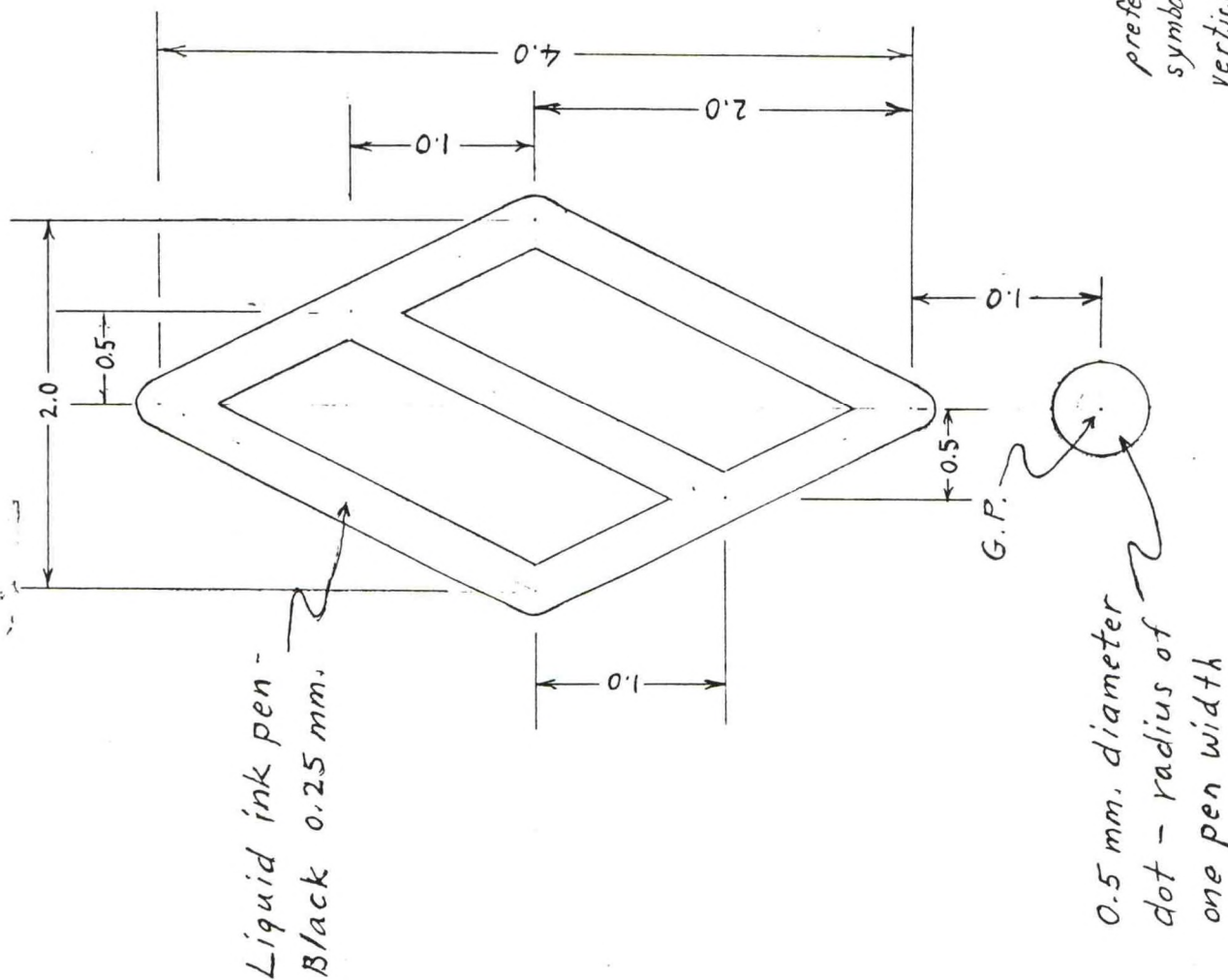
Measurements in mm.

CARTO. CODE

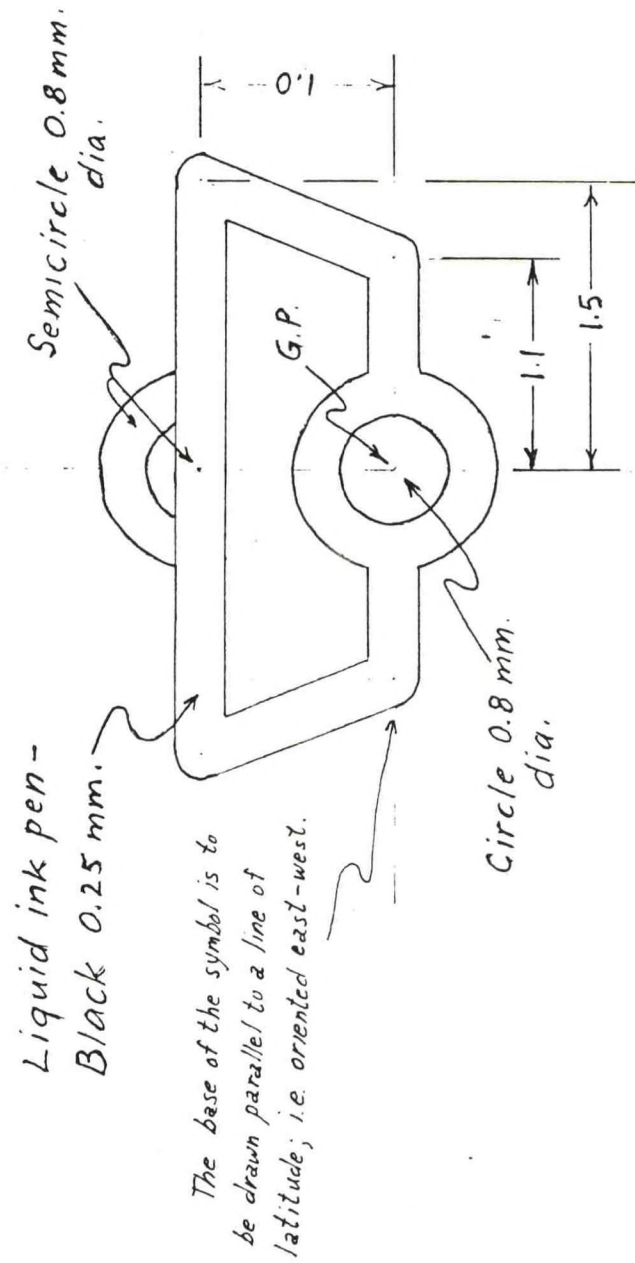
217 - Diagonally
banded buoy

Note:

Buoy symbol may
be rotated as
desired. However, the
preferred orientation of the diamond
symbol is slanted 30° clockwise from
vertical.

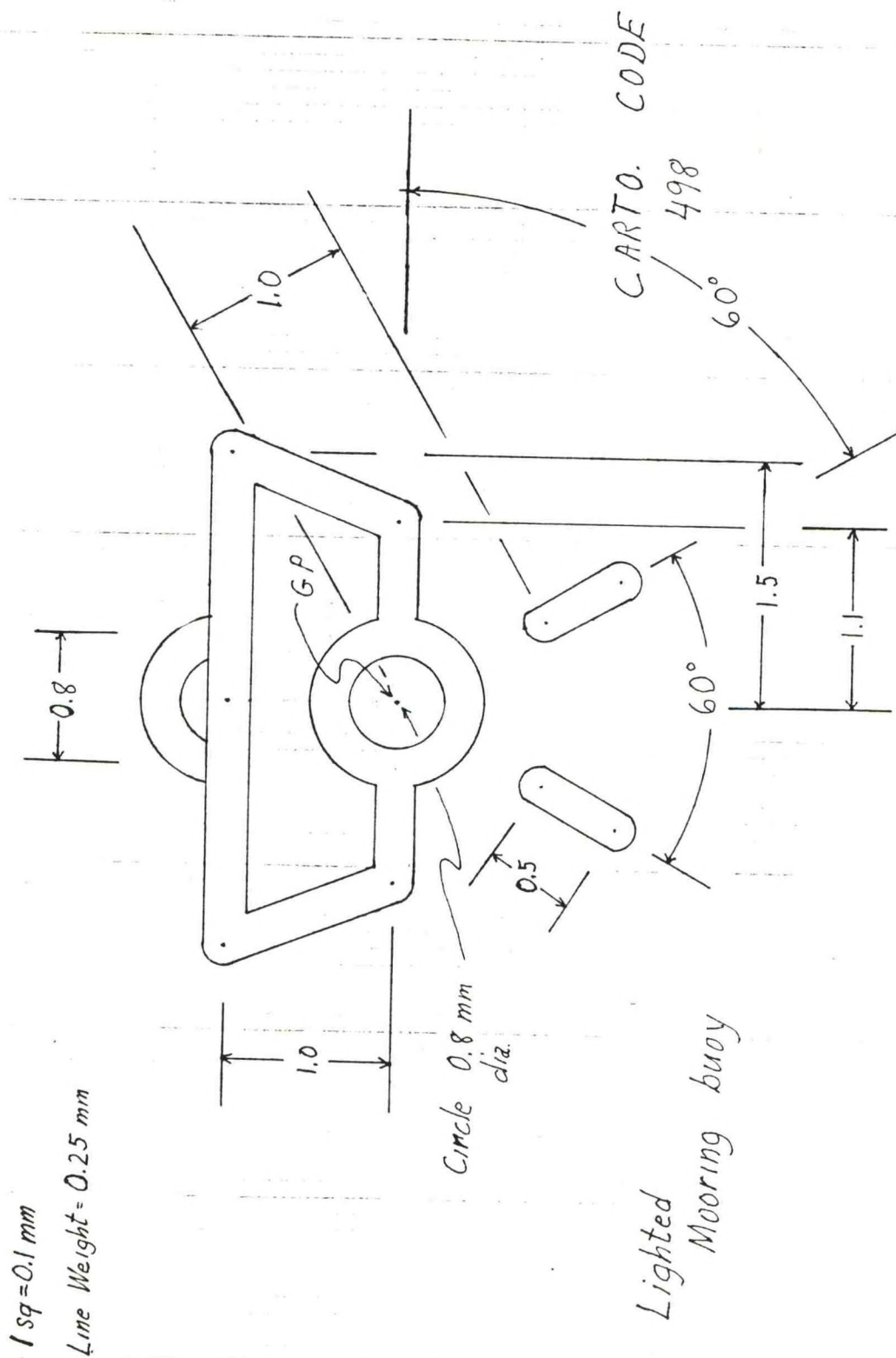


Measurements in mm.



CARTO. CODE

215 - Mooring buoy

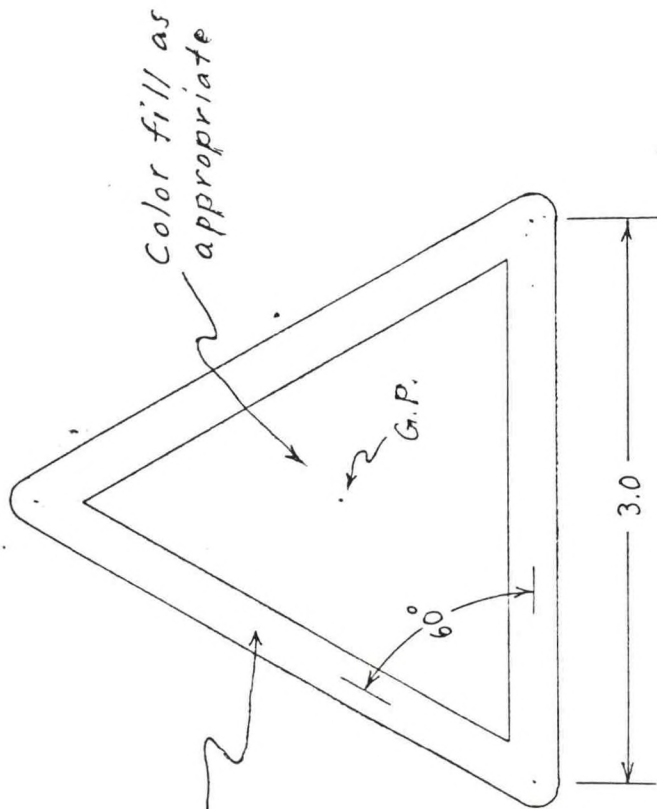


Symbol #26

Carto Codes:

219 223 224

767 906 907

Measurements in mm.*Color fill as appropriate**Liquid ink pen-
Black 0.25 mm.**Carto codes**219, 223, 224, 767, 906 and
907*

JAN 23 1985

Part A

Symbol #27

Carto Codes:

086 200 993

208 209

Part B

Symbol #28

Carto Codes:

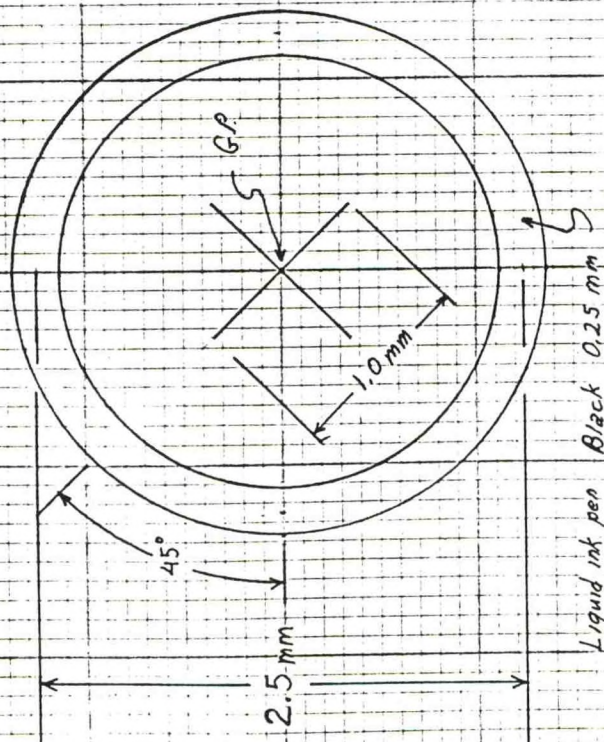
244 245

Carto Codes:

086 208
200 209
993

1 sq = 0.1 mm

line weight = 0.25 mm



Liquid ink pen Black 0.25 mm

A

4.0 mm

GR

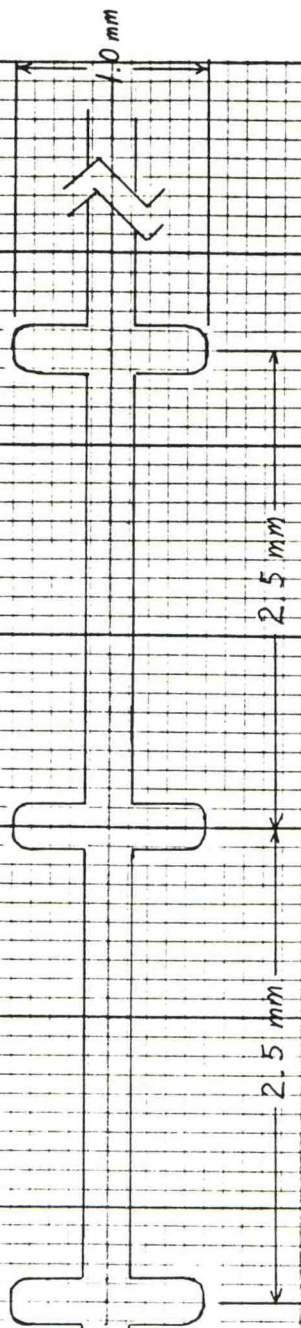
Blue

Liquid ink
pen 0.25 mm

1 sq = 0.1 mm

line weight = 0.25 mm

B



Beginning

line weight: 0.25 mm
1 sq = 0.1 mm

Carto code 039

Part A

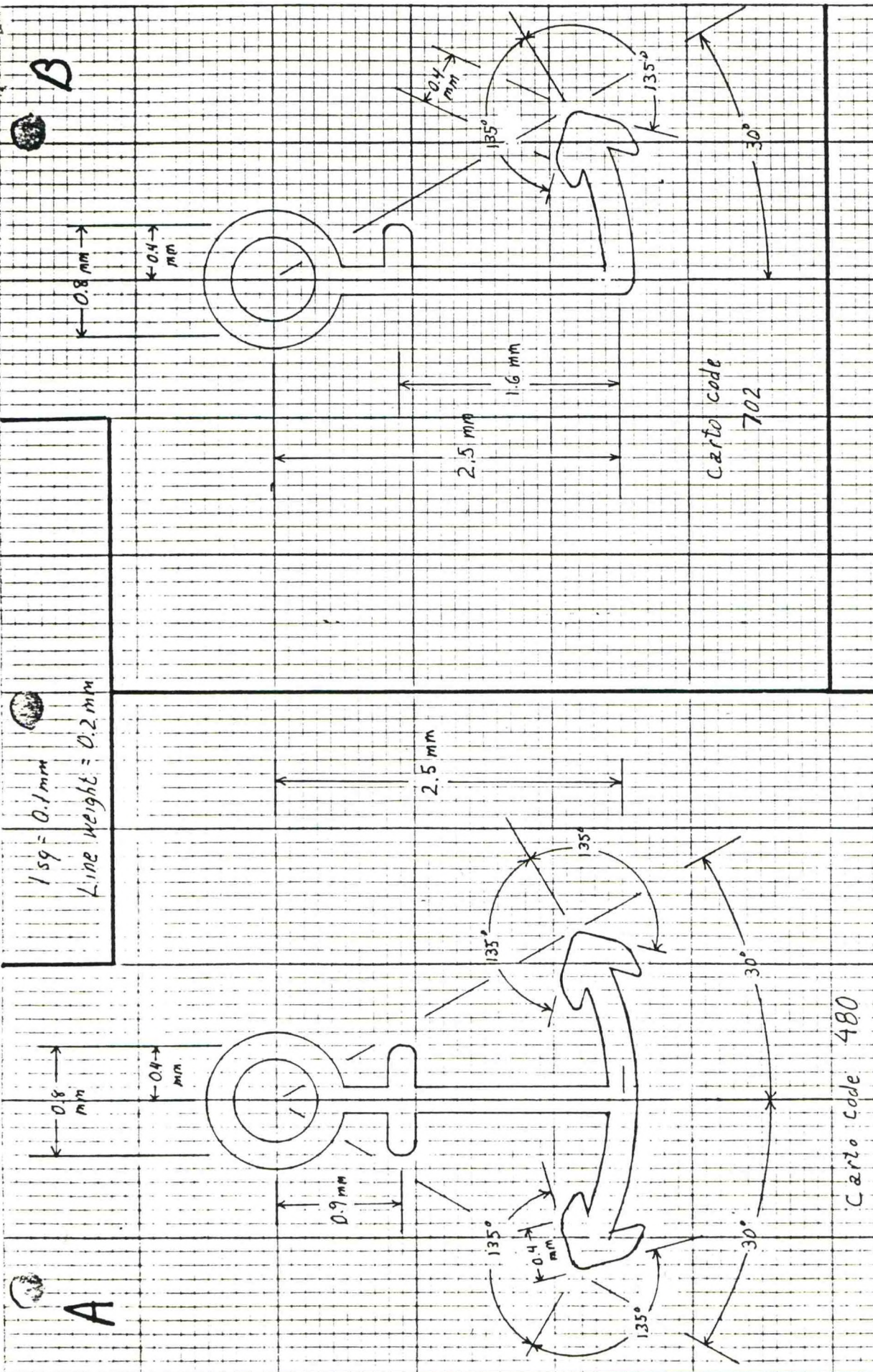
Symbol #31

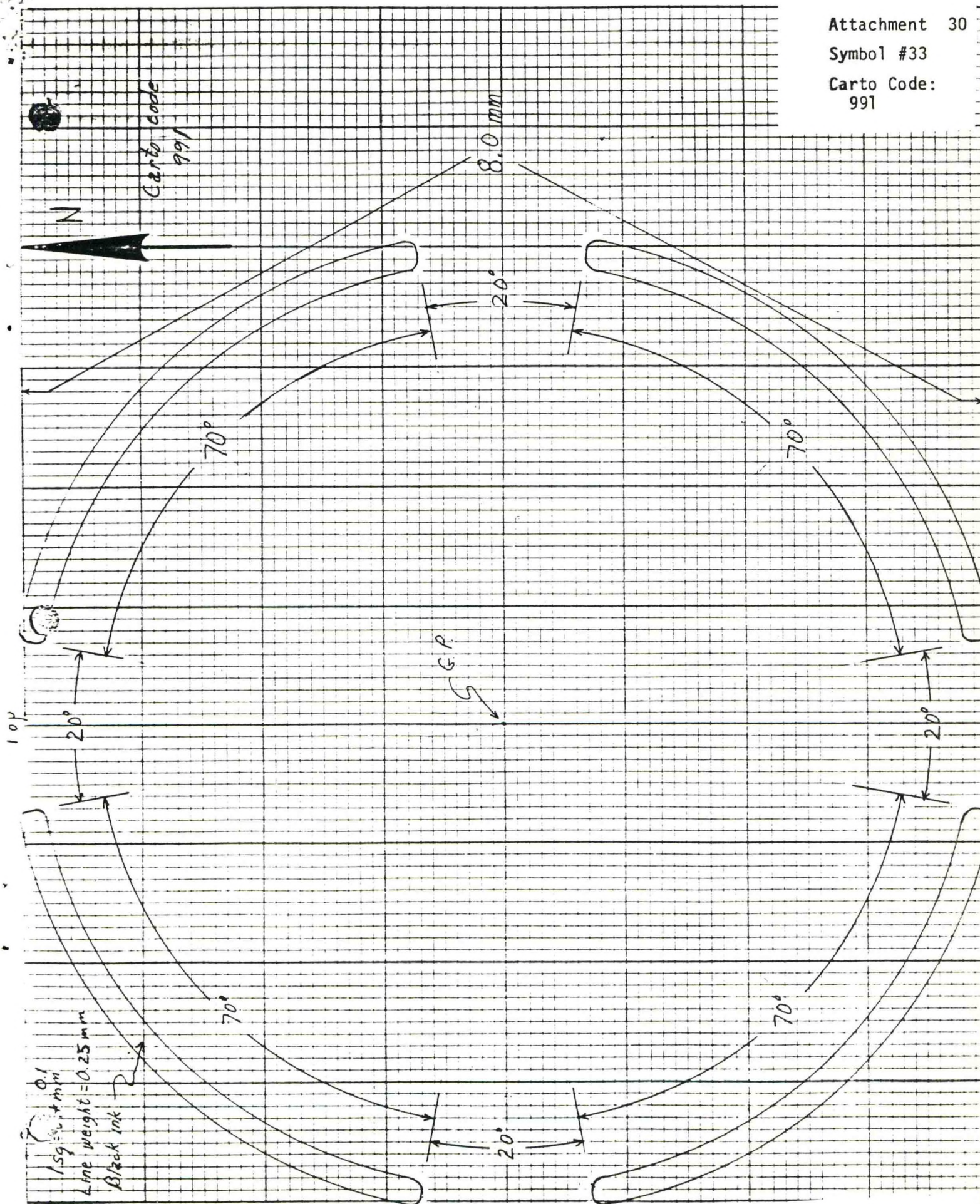
Carto Code:
480

Part B

Symbol #31a

Carto Code:
702





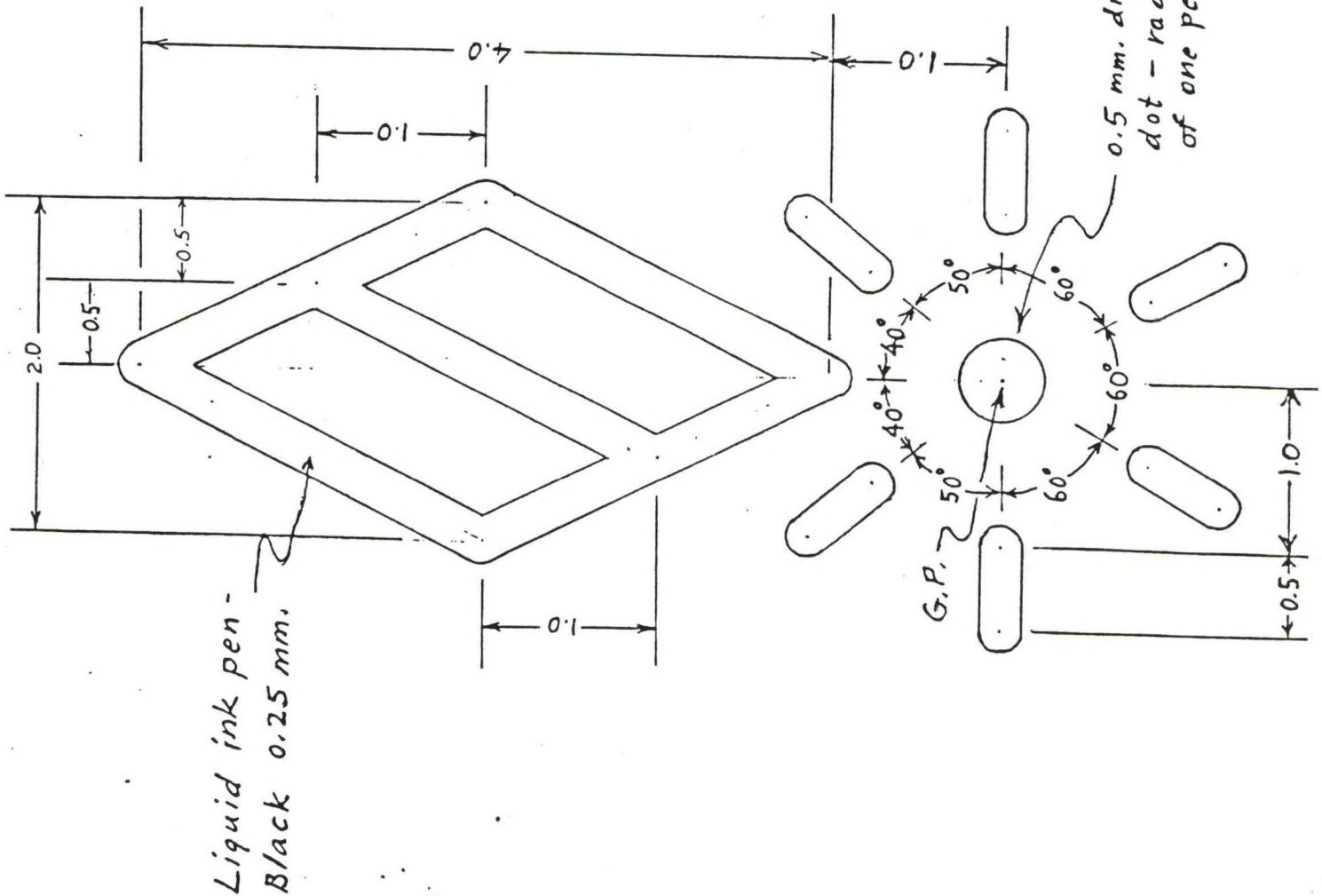
Measurements in mm.

CARTO. CODE

211 - DIAGONALLY BANDED
 BUOY, LIGHTED

Note:

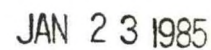
The buoy symbol may be rotated as desired. However, the preferred orientation of the diamond symbol is slanted 30° clockwise from vertical.



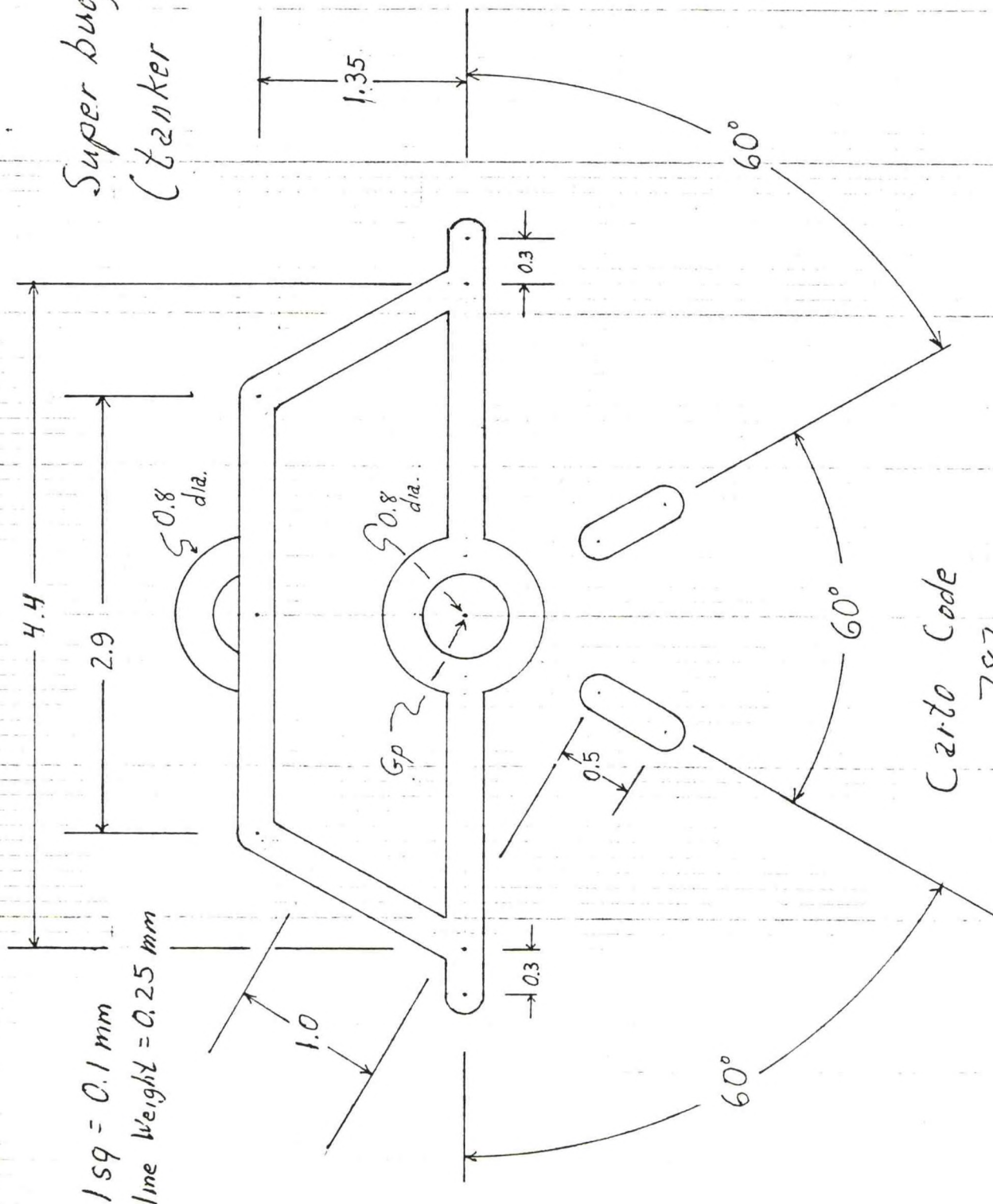
CARTO. CODE

Note:

The buoy symbol may be rotated as desired. However, the preferred orientation of the diamond symbol is slanted 30° clockwise from vertical.



Super buoy, lighted
(tanker terminal)



Carto Code 787