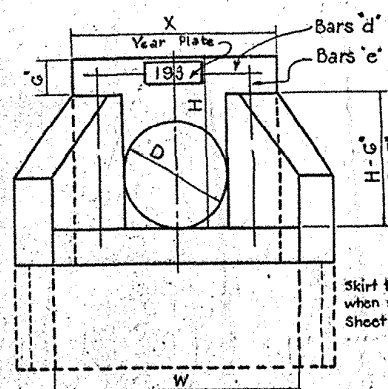
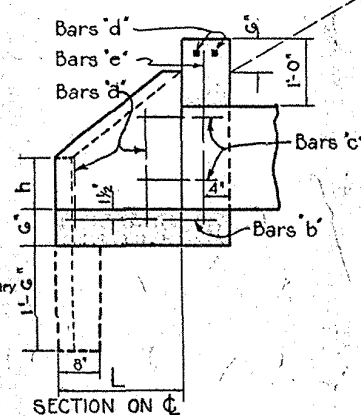




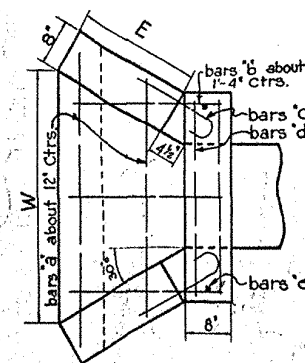
FRONT ELEVATION



SECTION ON C

TABLE OF DIMENSIONS

| D   | W      | X         | H     | h      | L          | E         |
|-----|--------|-----------|-------|--------|------------|-----------|
| 12" | 2'-10" | 2'-6"     | 2'-0" | 6"     | 1'-7"      | 1'-5 1/2" |
| 15" | 3'-3"  | 2'-9 1/2" | 2'-3" | 7 1/2" | 1'-8 1/2"  | 1'-7 1/2" |
| 18" | 3'-6"  | 3'-0"     | 2'-6" | 9"     | 1'-10 1/2" | 1'-9 1/2" |
| 24" | 4'-7"  | 3'-6 1/2" | 3'-0" | 12"    | 2'-3"      | 2'-2 1/2" |
| 30" | 5'-0"  | 4'-0 1/2" | 3'-6" | 12"    | 3'-0"      | 3'-1"     |
| 36" | 7'-4"  | 4'-6 1/2" | 4'-0" | 12"    | 3'-9"      | 4'-0"     |

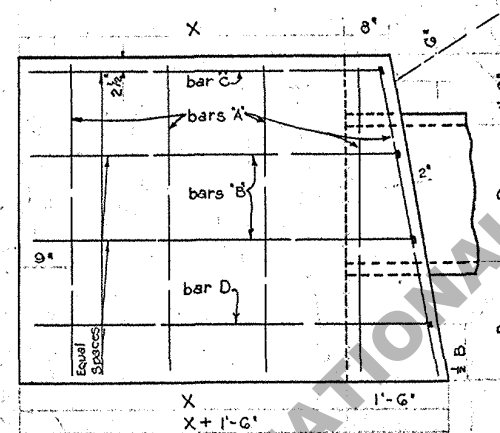


PLAN

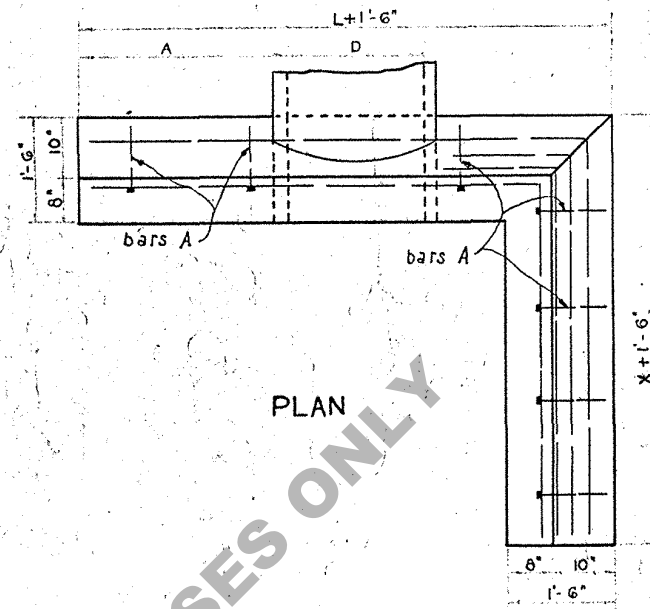
| bars B |       |
|--------|-------|
| 3'-11" | D=12" |
| 4'-3"  | D=15" |
| 4'-9"  | D=18" |
| 5'-5"  | D=24" |
| 6'-2"  | D=30" |
| 6'-10" | D=36" |

TABLE OF DIMENSIONS

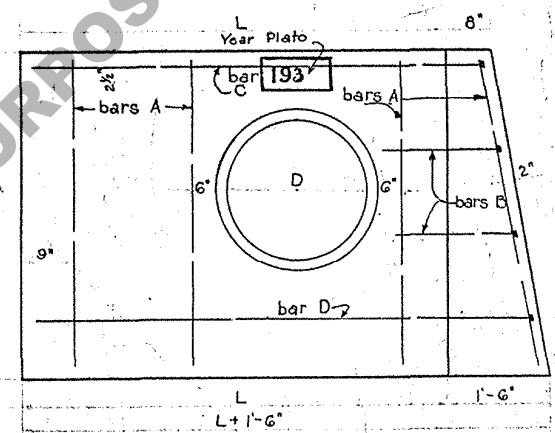
| D   | A         | B     | H     | L          | X         |
|-----|-----------|-------|-------|------------|-----------|
| 12" | 2'-0"     | 1'-3" | 3'-3" | 3'-7"      | 3'-3"     |
| 15" | 2'-2 1/2" | 1'-4" | 3'-7" | 4'-0 3/4"  | 3'-7 1/2" |
| 18" | 2'-5 1/2" | 1'-6" | 4'-0" | 4'-10 1/2" | 4'-0"     |
| 24" | 3'-0"     | 1'-9" | 4'-9" | 6'-2 1/2"  | 4'-9"     |
| 30" | 3'-7"     | 2'-0" | 5'-6" | 7'-4"      | 5'-6"     |
| 36" | 4'-2"     | 2'-3" | 6'-3" | 8'-5 1/2"  | 6'-3"     |



SIDE ELEVATION



PLAN



FRONT ELEVATION

| bars C    |       |
|-----------|-------|
| 4'-0 1/2" | D=12" |
| 4'-5 1/2" | D=15" |
| 5'-4"     | D=18" |
| 6'-7"     | D=24" |
| 7'-9 1/2" | D=30" |
| 8'-10"    | D=36" |

L HEADWALL

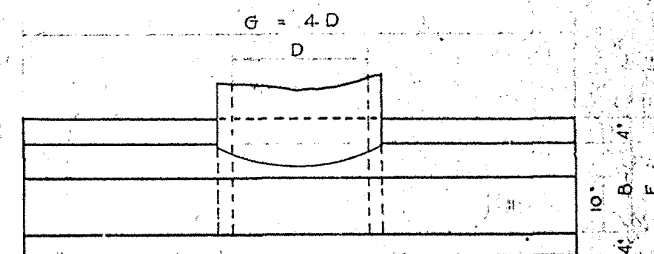
| bars D    |       |
|-----------|-------|
| 4'-4"     | D=12" |
| 4'-9 1/2" | D=15" |
| 5'-2 1/2" | D=18" |
| 5'-11"    | D=24" |
| 6'-7"     | D=30" |
| 7'-5"     | D=36" |

QUANTITIES FOR ONE HEADWALL

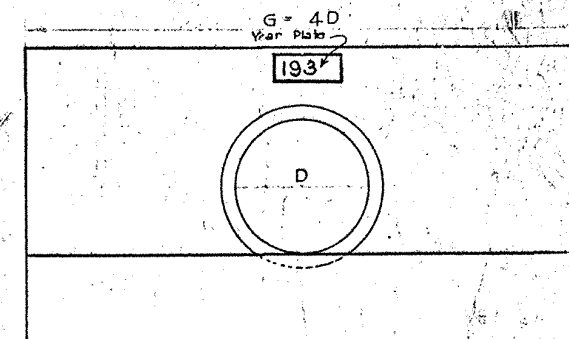
| DIAM. OF PIPE | Bars a   | Bars b   | Bars c  | Bars d  | Bars e  | Cu. Yds. Concrete Without Skirt With Skirt | STEEL LBS. |
|---------------|----------|----------|---------|---------|---------|--------------------------------------------|------------|
| 12"           | 2 5'-4"  | 3 1'-10" | 4 1'-6" | 2 2'-3" | 2 2'-0" | .31                                        | .44        |
| 15"           | 2 5'-10" | 3 1'-11" | 4 1'-6" | 2 2'-6" | 2 2'-3" | .38                                        | .53        |
| 18"           | 2 6'-0"  | 3 2'-0"  | 4 1'-6" | 2 2'-9" | 2 2'-6" | .45                                        | .61        |
| 24"           | 3 8'-0"  | 3 2'-3"  | 4 1'-6" | 2 3'-3" | 2 3'-0" | .62                                        | .82        |
| 30"           | 3 9'-6"  | 3 2'-3"  | 4 1'-6" | 2 3'-9" | 2 3'-6" | .89                                        | 1.14       |
| 36"           | 4 10'-0" | 4 3'-10" | 4 1'-6" | 2 4'-3" | 2 4'-0" | 1.20                                       | 1.50       |

FLARING WING WALLS

This Headwall to be used unless otherwise specified.



PLAN



ELEVATION

DIMENSIONS AND QUANTITIES FOR ONE HEADWALL

| D   | B     | E      | F     | G      | H     | Conc. cu. yds. |
|-----|-------|--------|-------|--------|-------|----------------|
| 12" | 1'-1" | 1'-9"  | 1'-1" | 4'-0"  | 2'-0" | .52            |
| 15" | 1'-2" | 1'-10" | 1'-2" | 5'-0"  | 2'-3" | .75            |
| 18" | 1'-3" | 1'-11" | 1'-3" | 6'-0"  | 2'-6" | 1.01           |
| 24" | 1'-4" | 2'-0"  | 1'-4" | 8'-0"  | 3'-0" | 1.56           |
| 30" | 1'-6" | 2'-2"  | 1'-6" | 10'-0" | 3'-6" | 2.41           |
| 36" | 1'-8" | 2'-4"  | 1'-8" | 12'-0" | 4'-0" | 3.48           |

END ELEVATION STRAIGHT HEADWALL

GENERAL NOTES FOR ALL TYPES:

1. Louisiana Highway Commission Specifications Shall govern.
2. All Concrete Shall be Class A.
3. All Exposed Surfaces shall have a "Rubbed" finish.
4. All Exposed Corners shall have a 3/4" Chamfer.
5. All Reinforcing Steel shall be 1/2" Deformed Bars.
6. For Year Plate see Standard Plan C-M-97.
7. Year Plate shall appear on all Headwalls. (Reduce to fit if necessary)

STANDARD PLAN  
PIPE CULVERT HEADW.  
FOR 12" TO 36" PIPE

LOUISIANA HIGHWAY C  
BATON ROUGE, LA. JULY

| DIAM.<br>OF PIPE | Bars A |                | Bars B |                | Bars C |                | Bars D |                | STEEL | Concrete |
|------------------|--------|----------------|--------|----------------|--------|----------------|--------|----------------|-------|----------|
| D                | Nº     | UNIT<br>LENGTH | Nº     | UNIT<br>LENGTH | Nº     | UNIT<br>LENGTH | Nº     | UNIT<br>LENGTH | Lbs.  | Cu. Yds. |
| 12"              | 6      | 3'-0"          | 2      | 5'-2"          | 1      | 7'-9"          | 1      | 9'-0"          | 38    | 1.01     |
| 15"              | 6      | 3'-5"          | 2      | 5'-9"          | 1      | 8'-6"          | 1      | 10'-0"         | 43    | 1.21     |
| 18"              | 6      | 3'-10"         | 2      | 6'-6"          | 1      | 9'-9"          | 1      | 11'-3"         | 49    | 1.52     |
| 24"              | 7      | 4'-6"          | 2      | 7'-0"          | 1      | 11'-9"         | 1      | 13'-3"         | 60    | 2.13     |
| 30"              | 8      | 5'-4"          | 3      | 8'-6"          | 1      | 13'-9"         | 1      | 15'-0"         | 82    | 2.83     |
| 36"              | 9      | 6'-0"          | 4      | 9'-0"          | 1      | 15'-6"         | 1      | 17'-0"         | 104   | 3.62     |

RETRACTED SKIRT  
HEADWALL