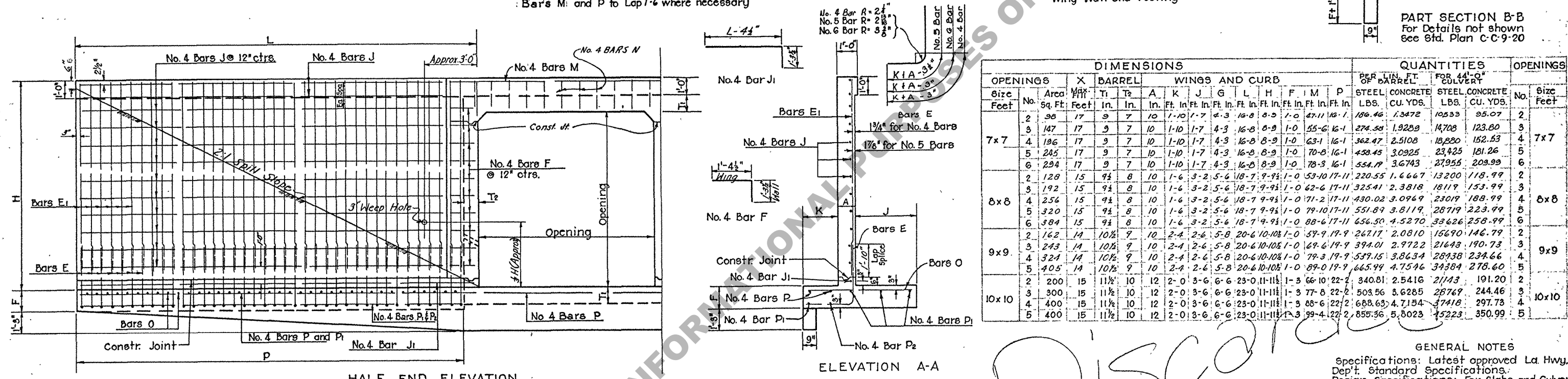
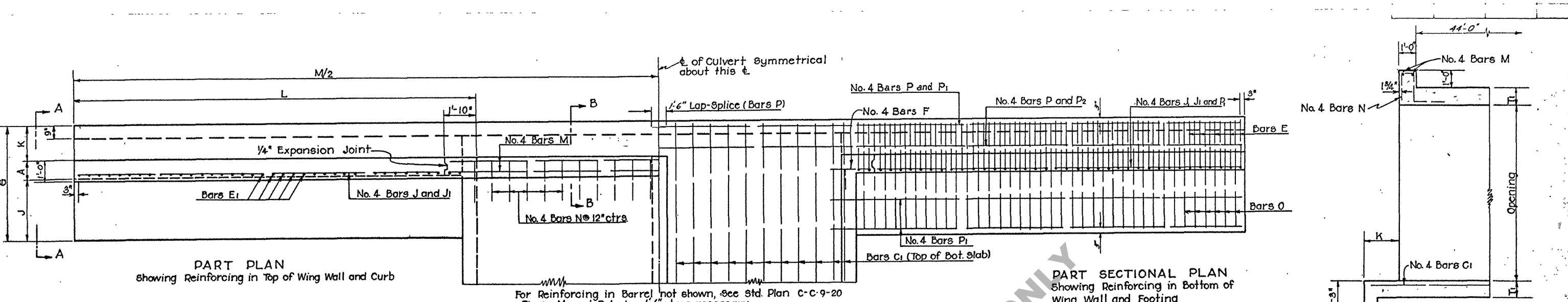




| DIMENSIONS |     |         |      |                |                |                |      |     |     |      |           |     |       |       | QUANTITIES |                        |       |                    | OPENINGS |       |  |
|------------|-----|---------|------|----------------|----------------|----------------|------|-----|-----|------|-----------|-----|-------|-------|------------|------------------------|-------|--------------------|----------|-------|--|
| OPENINGS   |     |         | X    | BARREL         |                | WINGS AND CURB |      |     |     |      |           |     |       |       |            | PER LIN. FT. OF BARREL |       | FOR 44" O. CULVERT |          |       |  |
| Size       | No. | Area    | MAX  | T <sub>1</sub> | T <sub>2</sub> | A              | K    | J   | G   | L    | H         | F   | M     | P     | STEEL      | CONCRETE               | STEEL | CONCRETE           | No.      | Size  |  |
| Feet       |     | Sq. Ft. | Feet | In.            | In.            | In.            | In.  | In. | In. | In.  | In.       | In. | In.   | In.   | LBS.       | CU. YDS.               | LBS.  | CU. YDS.           |          | Feet  |  |
| 7x7        | 2   | 98      | 17   | 9              | 7              | 10             | 1-10 | 1-7 | 4-3 | 16-8 | 8-3       | 1-0 | 47-11 | 16-1  | 186.46     | 1.3472                 | 10533 | 95.07              | 2        | 7x7   |  |
|            | 3   | 147     | 17   | 9              | 7              | 10             | 1-10 | 1-7 | 4-3 | 16-8 | 8-3       | 1-0 | 55-6  | 16-1  | 274.58     | 1.9289                 | 14708 | 123.80             | 3        |       |  |
|            | 4   | 196     | 17   | 9              | 7              | 10             | 1-10 | 1-7 | 4-3 | 16-8 | 8-3       | 1-0 | 63-1  | 16-1  | 362.47     | 2.5108                 | 18280 | 152.53             | 4        |       |  |
|            | 5   | 245     | 17   | 9              | 7              | 10             | 1-10 | 1-7 | 4-3 | 16-8 | 8-3       | 1-0 | 70-8  | 16-1  | 458.45     | 3.0925                 | 23425 | 181.26             | 5        |       |  |
|            | 6   | 294     | 17   | 9              | 7              | 10             | 1-10 | 1-7 | 4-3 | 16-8 | 8-3       | 1-0 | 78-3  | 16-1  | 554.19     | 3.6743                 | 27955 | 209.99             | 6        |       |  |
| 8x8        | 2   | 128     | 15   | 9 1/2          | 8              | 10             | 1-6  | 3-2 | 5-6 | 18-7 | 9-9 1/2   | 1-0 | 53-10 | 17-11 | 220.55     | 1.6667                 | 13200 | 118.99             | 2        | 8x8   |  |
|            | 3   | 192     | 15   | 9 1/2          | 8              | 10             | 1-6  | 3-2 | 5-6 | 18-7 | 9-9 1/2   | 1-0 | 62-6  | 17-11 | 325.41     | 2.3818                 | 18119 | 153.99             | 3        |       |  |
|            | 4   | 256     | 15   | 9 1/2          | 8              | 10             | 1-6  | 3-2 | 5-6 | 18-7 | 9-9 1/2   | 1-0 | 71-2  | 17-11 | 430.02     | 3.0969                 | 23019 | 188.99             | 4        |       |  |
|            | 5   | 320     | 15   | 9 1/2          | 8              | 10             | 1-6  | 3-2 | 5-6 | 18-7 | 9-9 1/2   | 1-0 | 79-10 | 17-11 | 551.89     | 3.8119                 | 28719 | 223.99             | 5        |       |  |
|            | 6   | 384     | 15   | 9 1/2          | 8              | 10             | 1-6  | 3-2 | 5-6 | 18-7 | 9-9 1/2   | 1-0 | 88-6  | 17-11 | 656.50     | 4.5270                 | 33626 | 258.99             | 6        |       |  |
| 9x9        | 2   | 162     | 14   | 10 1/2         | 9              | 10             | 2-4  | 2-6 | 5-8 | 20-6 | 10-10 1/2 | 1-0 | 57-9  | 19-9  | 267.17     | 2.0810                 | 15690 | 146.79             | 2        | 9x9   |  |
|            | 3   | 243     | 14   | 10 1/2         | 9              | 10             | 2-4  | 2-6 | 5-8 | 20-6 | 10-10 1/2 | 1-0 | 67-6  | 19-9  | 394.01     | 2.9722                 | 21643 | 190.73             | 3        |       |  |
|            | 4   | 324     | 14   | 10 1/2         | 9              | 10             | 2-4  | 2-6 | 5-8 | 20-6 | 10-10 1/2 | 1-0 | 77-3  | 19-9  | 529.15     | 3.8634                 | 28938 | 234.66             | 4        |       |  |
|            | 5   | 405     | 14   | 10 1/2         | 9              | 10             | 2-4  | 2-6 | 5-8 | 20-6 | 10-10 1/2 | 1-0 | 87-0  | 19-9  | 665.49     | 4.7546                 | 34384 | 278.60             | 5        |       |  |
|            | 6   | 486     | 14   | 10 1/2         | 9              | 10             | 2-4  | 2-6 | 5-8 | 20-6 | 10-10 1/2 | 1-0 | 96-7  | 19-9  | 774.53     | 5.6458                 | 40629 | 322.54             | 6        |       |  |
| 10x10      | 2   | 200     | 15   | 11 1/2         | 10             | 12             | 2-0  | 3-6 | 6-6 | 23-0 | 11-11 1/2 | 1-3 | 66-10 | 22-2  | 340.81     | 2.5416                 | 21143 | 191.20             | 2        | 10x10 |  |
|            | 3   | 300     | 15   | 11 1/2         | 10             | 12             | 2-0  | 3-6 | 6-6 | 23-0 | 11-11 1/2 | 1-3 | 77-8  | 22-2  | 503.56     | 3.6285                 | 28767 | 244.46             | 3        |       |  |
|            | 4   | 400     | 15   | 11 1/2         | 10             | 12             | 2-0  | 3-6 | 6-6 | 23-0 | 11-11 1/2 | 1-3 | 88-6  | 22-2  | 688.63     | 4.7154                 | 37418 | 297.73             | 4        |       |  |
|            | 5   | 500     | 15   | 11 1/2         | 10             | 12             | 2-0  | 3-6 | 6-6 | 23-0 | 11-11 1/2 | 1-3 | 99-4  | 22-2  | 855.36     | 5.8023                 | 45223 | 350.99             | 5        |       |  |

**GENERAL NOTES**

Specifications: Latest approved La. Hwy. Dep't. Standard Specifications.

Design Specifications: For Slabs and Culvert Walls, See Std. Plan CC-9-20. For Wing Walls and Footings, A.A.S.H.O. 1949 as amended to June 1950.

Reinforcement shall be structural intermediate, or Hard Grade, A.S.T.M. A15 or Rail Steel, A.S.T.M. A18, Concrete to be Class A.

All exposed corners to be chamfered 3/4".

For details relative to Weep-Holes, Scouring, Bending Diagrams for Bars A, B and N, and any other information not shown See Std. Plan CC-9-20.

No. 4 Bars to be spliced 1'-6" where necessary.

| OPENINGS |     | BARREL REINFORCEMENT |        |       |     |               |       |     |        |              |     |        |       |              |        | WING AND CURB REINFORCEMENT |     |               |       |     |        |        |     |        |       |        |        |       |     |         |       |     |        |              |     |        |       |              |        |       |     |               |       |     |        |              |     |        |       |              |        |       |     |        |       |     |        |              |     |        |       |               |        |       |     |               |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |   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       |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |    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|----------|-----|----------------------|--------|-------|-----|---------------|-------|-----|--------|--------------|-----|--------|-------|--------------|--------|-----------------------------|-----|---------------|-------|-----|--------|--------|-----|--------|-------|--------|--------|-------|-----|---------|-------|-----|--------|--------------|-----|--------|-------|--------------|--------|-------|-----|---------------|-------|-----|--------|--------------|-----|--------|-------|--------------|--------|-------|-----|--------|-------|-----|--------|--------------|-----|--------|-------|---------------|--------|-------|-----|---------------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|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|          |     | No. 6 BARS A         |        |       |     | No. 6 BARS A1 |       |     |        | No. 6 BARS B |     |        |       | No. 4 BARS C |        |                             |     | No. 4 BARS C1 |       |     |        | BARS D |     |        |       | BARS E |        |       |     | BARS E1 |       |     |        | No. 4 BARS F |     |        |       | No. 4 BARS J |        |       |     | No. 4 BARS J1 |       |     |        | No. 4 BARS M |     |        |       | No. 4 BARS N |        |       |     | BARS O |       |     |        | No. 4 BARS P |     |        |       | No. 4 BARS P1 |        |       |     | No. 4 BARS P2 |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |   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       |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |    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| Size     | No. | No.                  | Length | Spac. | No. | Length        | Spac. | No. | Length | Spac.        | No. | Length | Spac. | No.          | Length | Spac.                       | No. | Length        | Spac. | No. | Length | Spac.  | No. | Length | Spac. | No.    | Length | Spac. | No. | Length  | Spac. | No. | Length | Spac.        | No. | Length | Spac. | No.          | Length | Spac. | No. | Length        | Spac. | No. | Length | Spac.        | No. | Length | Spac. | No.          | Length | Spac. | No. | Length | Spac. | No. | Length | Spac.        | No. | Length | Spac. | No.           | Length | Spac. | No. | Length        | Spac. | No. | Length | Spac. | No. | Length | Spac. | No. | Length | Spac. | No. | Length | Spac. | No. | Length | Spac. | No. | Length | Spac. | No. | Length | Spac. | No. | Length | Spac. | No. | Length | Spac. | No. | Length | Spac. | No. | Length | Spac. | No. | Length | Spac. | No. | Length | Spac. | No. | Length | Spac. | No. | Length | 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\* Lengths given include splices

| DATE    | DESCRIPTION | BY     | CHECKED | DATE    | DESCRIPTION | BY     | CHECKED |
|---------|-------------|--------|---------|---------|-------------|--------|---------|
| 6-28-60 | Added E-7x7 | J.P.P. |         | 6-28-60 | Added E-7x7 | J.P.P. |         |
| 8-10-57 | Added E-7x7 | J.P.P. |         | 8-10-57 | Added E-7x7 | J.P.P. |         |
| 9-10-57 | Added E-7x7 | J.P.P. |         | 9-10-57 | Added E-7x7 | J.P.P. |         |
| 7-24-57 | Added E-7x7 | J.P.P. |         | 7-24-57 | Added E-7x7 | J.P.P. |         |
| 6-28-60 | Added E-7x7 | J.P.P. |         | 6-28-60 | Added E-7x7 | J.P.P. |         |

**STANDARD PLAN**

MULTIPLE OPENINGS - STRAIGHT HEADWALLS

REINFORCED CONCRETE BOX CULVERTS

7x7 8x8 9x9 10x10

WINGS FOR 2:1 SPILL SLOPE

STATE OF LOUISIANA

DEPARTMENT OF HIGHWAYS

DESIGNED: J.P.P. CHECKED: J.P.P. TRACED: J.P.P.

DATE: 6-28-60

CC-16-20