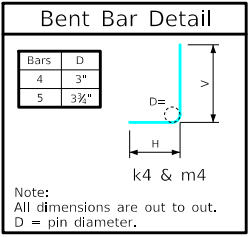


Triple 10' x 5' Barrel Section



Notes:

- Dimensions listed on this sheet to be used in conjunction with Sheet TRRCB G3-20.
- Fill, dimensions "k1" and "H" are in feet.
- Dimensions "A", "g", "C", "D", and "Sp." listed in the bar list are in inches.
- Dimensions "L", "H", "V" are in feet and inches.

Variable Dimensions and Quantities for Triple 10' x 5' Barrel Sections

| Dimensions | | | | | | | | | | | | | | Bar List | | | | | | | | | | | | | | Concrete (CY/FT) | | Steel (LB/FT) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|----|---|------|------|---|---|---|--------|--------|--------|--------|-------|--------|----------|-----|--------|------|-----|--------|------|-----|-----|------|-----|-----|------|-----|------------------|------|---------------|-----|------|-----|-----|------|-----|-----|------|-----|--------|------|-------|---------|-------|-------|--------|---|---|--------|--------|--------|---|----|--------|---|----|--------|
| Fill | S | H | A | B | C | D | E | R | T | U | W | X | Z | Size | Sp. | L | Size | Sp. | L | Size | Sp. | No. | Size | Sp. | No. | Size | Sp. | No. | Size | Sp. | No. | Size | Sp. | No. | Size | Sp. | No. | Size | Sp. | No. | Slab | Floor | Walls | Total | Steel | | | | | | | | | | | | |
| 0 | 10 | 5 | 13 | 10.5 | 9 | 6 | 9 | 0'-0" | 0'-0" | 6'-2" | 2'-10" | 4'-2" | 3'-11" | 4 | 6 | 6'-10" | 6 | 9 | 6'-10" | 4 | 6 | 20 | 4 | 6 | 22 | 4 | 12 | 27 | 4 | 18 | 24 | 4 | 12 | 33 | 4 | 18 | 24 | 6 | 18 | 32'-8" | 5 | 18 | 10'-11" | 4 | 18 | 10'-9" | 4 | 6 | 6'-6" | 3'-3" | 3'-3" | 4 | 12 | 32'-8" | 4 | 12 | 12'-4" |
| 1 | 10 | 5 | 12.5 | 10 | 9 | 6 | 9 | 0'-8" | 0'-3" | 6'-2" | 2'-9" | 3'-8" | 3'-10" | 4 | 6 | 6'-9" | 6 | 9 | 6'-9" | 4 | 6 | 20 | 4 | 6 | 22 | 4 | 12 | 27 | 4 | 18 | 24 | 4 | 12 | 33 | 4 | 18 | 24 | 6 | 18 | 32'-8" | 5 | 18 | 10'-8" | 4 | 18 | 9'-5" | 4 | 6 | 6'-6" | 3'-3" | 3'-3" | 4 | 12 | 32'-8" | 4 | 12 | 12'-4" |
| 2 | 10 | 5 | 9.5 | 10 | 9 | 6 | 9 | 1'-0" | 0'-10" | 4'-10" | 2'-1" | 3'-8" | 3'-9" | 4 | 6 | 6'-6" | 6 | 9 | 6'-6" | 4 | 6 | 20 | 4 | 6 | 22 | 4 | 12 | 27 | 4 | 18 | 24 | 4 | 12 | 33 | 4 | 18 | 24 | 6 | 18 | 32'-8" | 6 | 18 | 10'-1" | 5 | 18 | 8'-9" | 5 | 6 | 6'-6" | 3'-3" | 3'-3" | 4 | 9 | 32'-8" | 4 | 9 | 11'-0" |
| 3-6 | 10 | 5 | 8 | 10 | 9 | 9 | 9 | 2'-1" | 1'-8" | 3'-11" | 2'-8" | 3'-8" | 3'-8" | 6 | 12 | 6'-5" | 6 | 9 | 6'-5" | 4 | 6 | 20 | 4 | 6 | 22 | 4 | 12 | 27 | 4 | 18 | 24 | 4 | 12 | 33 | 4 | 18 | 24 | 5 | 12 | 32'-8" | 5 | 12 | 8'-1" | 4 | 12 | 6'-7" | 5 | 6 | 6'-2" | 3'-1" | 3'-1" | 5 | 12 | 32'-8" | 5 | 12 | 8'-3" |
| 7-8 | 10 | 5 | 8 | 10 | 9 | 6 | 9 | 2'-11" | 2'-3" | 3'-5" | 2'-2" | 3'-6" | 3'-4" | 4 | 6 | 6'-5" | 6 | 9 | 6'-5" | 4 | 6 | 20 | 4 | 6 | 22 | 4 | 12 | 27 | 4 | 18 | 24 | 4 | 12 | 33 | 4 | 18 | 24 | 5 | 12 | 32'-8" | 5 | 12 | 7'-3" | 4 | 12 | 4'-11" | 4 | 6 | 5'-6" | 2'-9" | 2'-9" | 5 | 12 | 32'-8" | 6 | 12 | 6'-11" |
| 9-10 | 10 | 5 | 9 | 11 | 9 | 6 | 9 | 2'-11" | 2'-2" | 3'-4" | 2'-1" | 3'-3" | 3'-6" | 4 | 6 | 6'-7" | 6 | 9 | 6'-7" | 4 | 6 | 20 | 4 | 6 | 22 | 4 | 12 | 27 | 4 | 18 | 24 | 4 | 12 | 33 | 4 | 18 | 24 | 5 | 12 | 32'-8" | 5 | 12 | 7'-6" | 4 | 12 | 4'-11" | 4 | 6 | 5'-8" | 2'-10" | 2'-10" | 5 | 12 | 32'-8" | 6 | 12 | 6'-11" |
| 11-12 | 10 | 5 | 9.5 | 11.5 | 9 | 6 | 9 | 2'-10" | 1'-10" | 3'-5" | 2'-9" | 4'-2" | 3'-5" | 4 | 6 | 6'-8" | 6 | 9 | 6'-8" | 4 | 6 | 20 | 4 | 6 | 22 | 4 | 12 | 27 | 4 | 18 | 24 | 4 | 12 | 33 | 4 | 18 | 24 | 5 | 12 | 32'-8" | 5 | 12 | 8'-2" | 4 | 12 | 5'-1" | 4 | 6 | 5'-8" | 2'-10" | 2'-10" | 4 | 12 | 32'-8" | 7 | 12 | 7'-1" |
| 13-15 | 10 | 5 | 11.5 | 13.5 | 9 | 9 | 9 | 3'-2" | 1'-10" | 3'-4" | 2'-3" | 3'-6" | 3'-3" | 4 | 9 | 7'-0" | 6 | 9 | 7'-0" | 4 | 6 | 20 | 4 | 6 | 22 | 4 | 12 | 27 | 4 | 18 | 24 | 4 | 12 | 33 | 4 | 18 | 24 | 5 | 12 | 32'-8" | 5 | 12 | 8'-9" | 4 | 12 | 4'-5" | 4 | 6 | 5'-3" | 2'-3" | 3'-0" | 4 | 12 | 32'-8" | 7 | 12 | 7'-0" |
| 16-17 | 10 | 5 | 12.5 | 14.5 | 9 | 9 | 9 | 3'-5" | 1'-10" | 3'-4" | 2'-1" | 3'-5" | 3'-4" | 4 | 9 | 7'-2" | 6 | 9 | 7'-2" | 4 | 6 | 20 | 4 | 6 | 22 | 4 | 12 | 27 | 4 | 18 | 24 | 4 | 12 | 33 | 4 | 18 | 24 | 5 | 9 | 32'-8" | 4 | 9 | 8'-5" | 4 | 9 | 3'-11" | 4 | 6 | 5'-4" | 2'-3" | 3'-2" | 4 | 12 | 32'-8" | 7 | 12 | 7'-0" |
| 18-19 | 10 | 5 | 13.5 | 15.5 | 9 | 9 | 9 | 3'-4" | 1'-8" | 3'-4" | 1'-10" | 3'-9" | 3'-4" | 4 | 9 | 7'-4" | 6 | 9 | 7'-4" | 4 | 6 | 20 | 4 | 6 | 22 | 4 | 12 | 27 | 4 | 18 | 24 | 4 | 12 | 33 | 4 | 18 | 24 | 5 | 9 | 32'-8" | 4 | 9 | 8'-10" | 4 | 9 | 4'-1" | 4 | 6 | 5'-5" | 2'-3" | 3'-2" | 4 | 12 | 32'-8" | 7 | 12 | 7'-1" |
| 20-21 | 10 | 5 | 14.5 | 16.5 | 9 | 9 | 9 | 4'-2" | 1'-5" | 3'-4" | 1'-7" | 3'-9" | 3'-5" | 4 | 12 | 7'-6" | 6 | 9 | 7'-6" | 4 | 6 | 20 | 4 | 6 | 22 | 4 | 12 | 27 | 4 | 18 | 24 | 4 | 12 | 33 | 4 | 18 | 24 | 5 | 9 | 32'-8" | 4 | 9 | 9'-6" | 4 | 9 | 2'-5" | 4 | 6 | 5'-7" | 2'-4" | 3'-3" | 4 | 12 | 32'-8" | 7 | 12 | 7'-2" |
| 22-23 | 10 | 5 | 15 | 17.5 | 9 | 9 | 9 | 4'-2" | 1'-5" | 3'-5" | 1'-5" | 3'-9" | 3'-6" | 4 | 12 | 7'-7" | 6 | 9 | 7'-7" | 4 | 6 | 20 | 4 | 6 | 22 | 4 | 12 | 27 | 4 | 18 | 24 | 4 | 12 | 33 | 4 | 18 | 24 | 6 | 12 | 32'-8" | 5 | 12 | 9'-6" | 4 | 12 | 2'-5" | 4 | 6 | 5'-7" | 2'-4" | 3'-3" | 5 | 9 | 32'-8" | 5 | 9 | 7'-4" |
| 24-25 | 10 | 5 | 17 | 18.5 | 9 | 9 | 9 | 4'-1" | 0'-11" | 3'-6" | 1'-3" | 3'-9" | 3'-6" | 4 | 12 | 7'-10" | 6 | 9 | 7'-10" | 4 | 6 | 20 | 4 | 6 | 22 | 4 | 12 | 27 | 4 | 18 | 24 | 4 | 12 | 33 | 4 | 18 | 24 | 7 | 18 | 32'-8" | 6 | 18 | 10'-0" | 4 | 18 | 2'-7" | 4 | 6 | 5'-10" | 2'-5" | 3'-5" | 5 | 12 | 32'-8" | 6 | 12 | 7'-7" |

ENGLISH\FDS\DESIGNED\TRIPLE\CULVERTS.DGN - TRRCB 10-5-20 - THIS SHEET ISSUED 07-2020

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|-----------------------------------------------------|-----------------------------------------------------------------------|
| LATEST REVISION DATE APPROVED BY BRIDGE ENGINEER | |
| | Standard Design Triple Reinforced Concrete Box Culverts |
| | July, 2020 |
| | Culvert Barrel Details 10' x 5' Barrel Sections |

TRRCB
10-5-20