

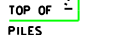
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5c2 FOR 201'-4 &amp; 213'-10 SPANS

SEE FOR 201-4 & 215-10 SPANS

5c2 FOR 226'-4 &amp; 243'-0 SPANS

NOTE:  
SHIFT 5c1 BARS TO  
CLEAR d1 COLUMN  
BARS ALL SPANS



← SYMMETRICAL ABOUT C PIER



5 EQUAL SPACES  
4 - di BARS

① SEE SHEET H24-31-06 FOR STEP REINFORCING STEEL QUANTITY AND DETAILS.

SEE "TEE PIER NOTES" ON H24-01-06 FOR NOTES REGARDING APPLICATION OF THESE PIER STANDARDS.

MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR  
REINFORCING BAR SHALL BE 2 INCHES UNLESS OTHERWISE NOTED  
OR SHOWN.

ELIMINATE 2x8 BEVELED KEYWAY ON TOP OF CAP FOR EXPANSION  
PIERS.

SEE SHEET H24-29-06 FOR "U" DIMENSION.

|   |                          |      |
|---|--------------------------|------|
| ① | TOTAL (LB.)              | 2555 |
|   | STRUCTURAL CONCRETE (CY) | 20.3 |

|   |                          |      |
|---|--------------------------|------|
| 1 | TOTAL (LB.)              | 3400 |
|   | STRUCTURAL CONCRETE (CY) | 20.3 |

| H IN | COLUMN HEIGHT | STRUCTURAL CONCRETE | REINFORCING STEEL |         |         | TOTAL WEIGHT |
|------|---------------|---------------------|-------------------|---------|---------|--------------|
|      |               |                     | d1 BAR            | 4e1 BAR | 4e2 BAR |              |
| 10   | 3.0           | 25                  | 10                | 10      | 10      | 30           |
| 20   | 6.0           | 30                  | 15                | 15      | 15      | 45           |
| 30   | 9.0           | 35                  | 20                | 20      | 20      | 60           |
| 40   | 12.0          | 40                  | 25                | 25      | 25      | 75           |
| 50   | 15.0          | 45                  | 30                | 30      | 30      | 90           |
| 60   | 18.0          | 50                  | 35                | 35      | 35      | 105          |
| 70   | 21.0          | 55                  | 40                | 40      | 40      | 120          |
| 80   | 24.0          | 60                  | 45                | 45      | 45      | 135          |
| 90   | 27.0          | 65                  | 50                | 50      | 50      | 150          |
| 100  | 30.0          | 70                  | 55                | 55      | 55      | 165          |

NOTE: ALL DIMENSIONS ARE OUT TO OUT.  
D = PIN DIAMETER.

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**LATEST REVISION DATE**

APPROVED BY BRIDGE ENGINEER  
 Thomas L. Mc Donald



Iowa Department of Transportation  
Highway Division

STANDARD DESIGN - 24' ROADWAY, THREE SPAN BRIDGE

## PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

HL93 SUPERSTRUCTURE      DECEMBER, 2006      HS25 SUBSTRUCTURE

TEE PIER  
CAP AND COLUMN  
45° SKEW

H24-61-06