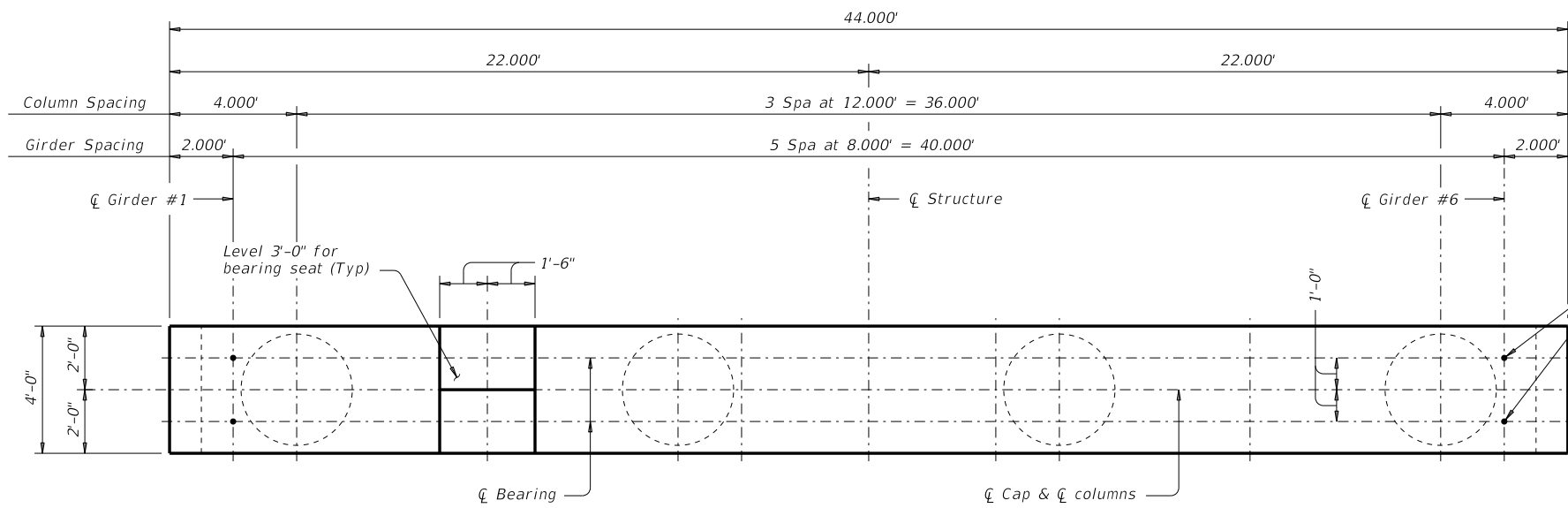
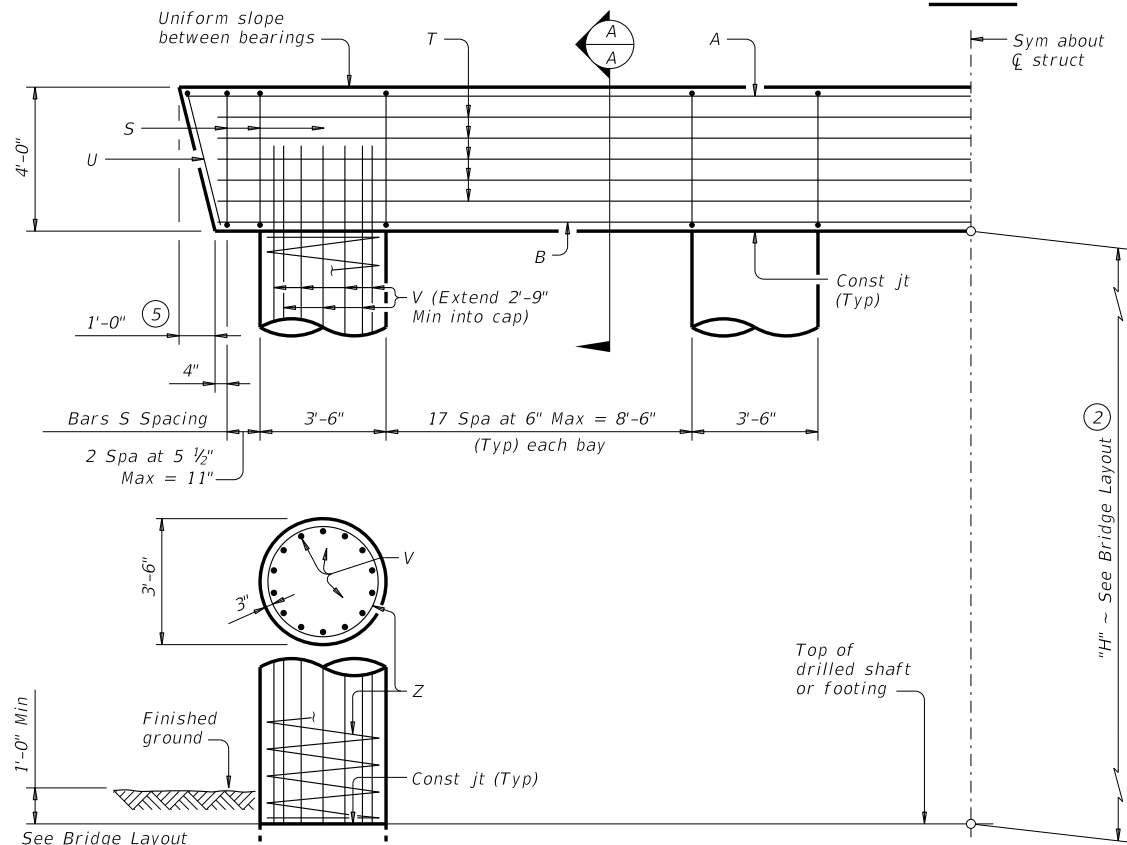


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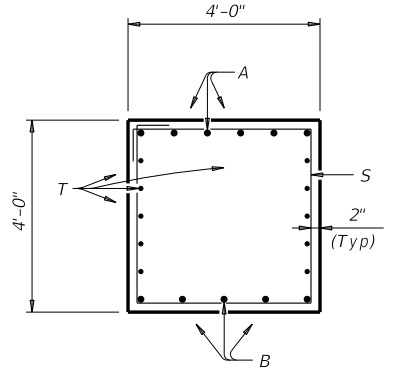
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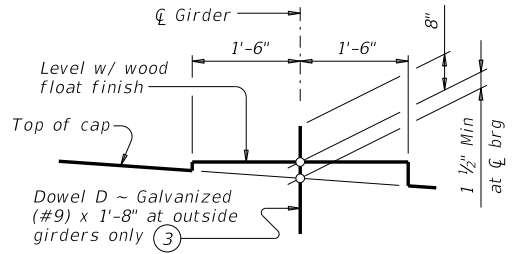
**PLAN**



**HALF ELEVATION**

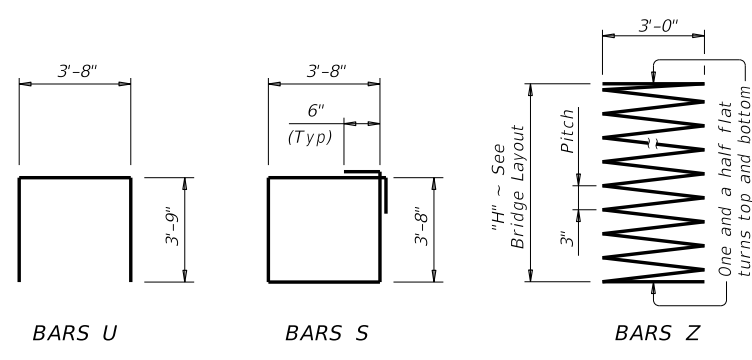


**SECTION A-A**



**BEARING SEAT DETAIL**

(Bearing surface must be clean and free of all loose material before placing bearing pad.)



| Bar                      | No. | Size | Length    | Weight |        |
|--------------------------|-----|------|-----------|--------|--------|
| A                        | 6   | #11  | 43'-6"    | 1,387  |        |
| B                        | 5   | #11  | 41'-9"    | 1,109  |        |
| D ③                      | 4   | #9   | 1'-8"     | 23     |        |
| S                        | 60  | #5   | 15'-8"    | 980    |        |
| T                        | 10  | #5   | 41'-9"    | 435    |        |
| U                        | 2   | #5   | 11'-2"    | 23     |        |
| V                        | 56  | #9   | 38'-9"    | 7,378  |        |
| Z                        | 4   | #4   | 1,387'-3" | 3,707  |        |
| Reinforcing Steel        |     |      |           | Lb     | 15,042 |
| Class "C" Concrete (Cap) |     |      |           | CY     | 25.8   |
| Class "C" Concrete (Col) |     |      |           | CY     | 51.3   |

| Span Average | Drilled Shaft Loads | Pile Load (Tons/Pile) |            |
|--------------|---------------------|-----------------------|------------|
|              |                     | 4 Pile Ftg            | 5 Pile Ftg |
| Ft           | Tons/Shaft          |                       |            |
| 60           | 163                 | 44                    | 36         |
| 65           | 172                 | 46                    | 38         |
| 70           | 181                 | 48                    | 39         |
| 75           | 190                 | 51                    | 41         |
| 80           | 198                 | 53                    | 43         |
| 85           | 207                 | 55                    | 45         |
| 90           | 216                 | 57                    | 46         |
| 95           | 225                 | 59                    | 48         |
| 100          | 234                 | 62                    | 50         |
| 105          | 242                 | 64                    | 52         |
| 110          | 251                 | 66                    | 53         |
| 115          | 260                 | 68                    | 55         |
| 120          | 269                 | 70                    | 57         |
| 125          | 277                 | 72                    | 59         |
| 130          | 286                 | 75                    | 60         |
| 135          | 295                 | 77                    | 62         |

- ① Quantities shown are based on an "H" value of 36'. For each linear foot variation in "H" value, make the following adjustments:  
 Bars V length, 1'-0"  
 Bars Z length, 37'-9"  
 Reinforcing steel, 291 Lb  
 Class "C" conc (col), 1.43 CY
- ② This standard may not be used for "H" heights exceeding 36'. In areas of very soft soil or where scour is anticipated, allowable "H" heights must be evaluated by the Engineer prior to the use of this standard.
- ③ Omit Dowels D at end of multi-span units. Adjust reinforcing steel total accordingly.
- ④ Foundation Loads based on "H" = 36'.
- ⑤ Measured parallel to top of cap cross-slope.

**GENERAL NOTES:**  
 Designed according to AASHTO LRFD Bridge Design Specifications.  
 See Bridge Layout for foundation type, size and length.  
 See Common Foundation Details (FD) standard sheet for all foundation details and notes.  
 See Shear Key (IGSK) standard sheet for all shear key details and notes, if applicable.  
 Bent selected must be based on the average span length rounded up to the next 5 ft increment.  
 These bent details may be used with standard SIG-62-44 only.

Cover dimensions are clear dimensions, unless noted otherwise.  
 Reinforcing bar dimensions shown are out-to-out of bar.

**MATERIAL NOTES:**  
 Provide Class C concrete (f'c = 3,600 psi).  
 Provide Class C (HPC) concrete if shown elsewhere in the plans.  
 Provide Grade 60 reinforcing steel.  
 Galvanize dowel bars D.

HL93 LOADING

Texas Department of Transportation  
 Bridge Division Standard

**INTERIOR BENTS  
 TYPE TX62  
 PRESTR CONC I-GIRDERS  
 44' ROADWAY**

**BIG-62-44**

|                       |         |         |           |         |
|-----------------------|---------|---------|-----------|---------|
| FILE: big37sts-17.dgn | DN: TAR | CK: SDB | DW: JTR   | CK: TAR |
| ©TxDOT August 2017    | CONT    | SECT    | JOB       | HIGHWAY |
| REVISIONS             | DIST    | COUNTY  | SHEET NO. |         |