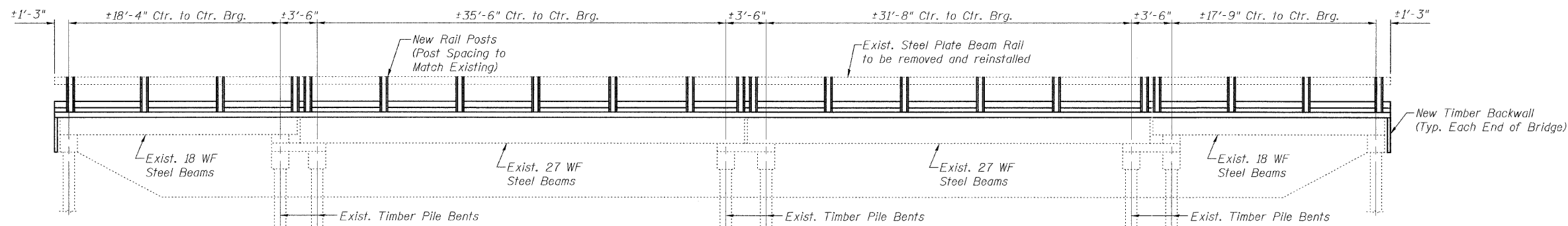
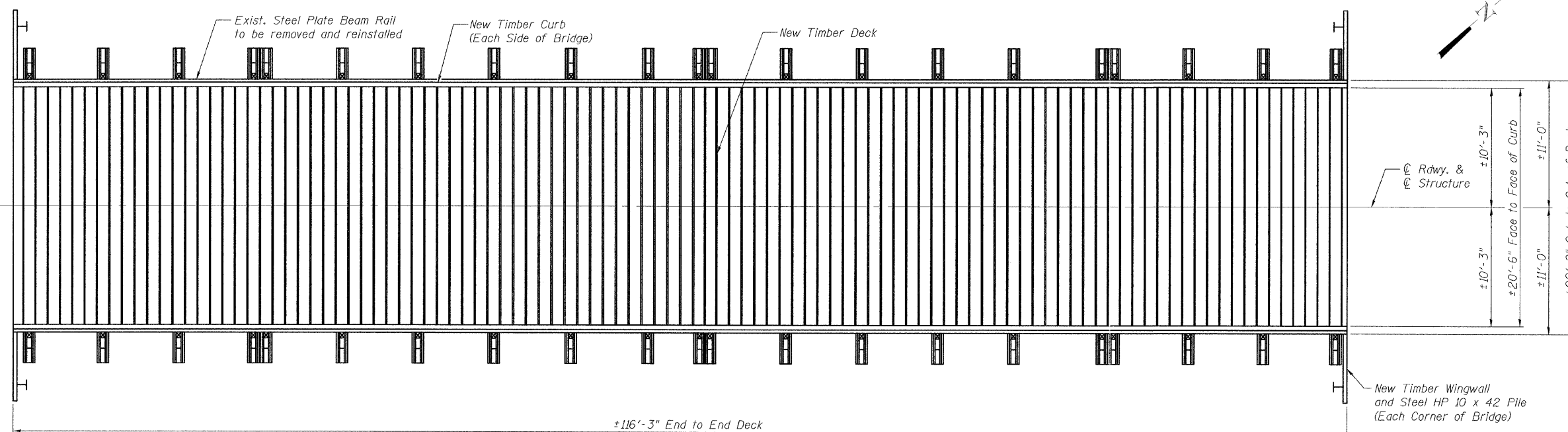


| F.A.P. RTE.         | SECTION                   | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------|---------------------------|---------|--------------|-----------|
|                     |                           | MARION  | 15           | 9         |
| STA.                |                           | TO STA. |              |           |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |         |              |           |

Existing Structure: Four span bridge with steel stringers, timber deck, steel plate beam bridge rail, and timber curbs.  
Proposed Improvement: Replace timber curb, timber deck planks, and guardrail.



**ELEVATION**



**PLAN**

**GENERAL NOTES**

All construction shall conform to the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction adopted January 1, 2007.

Plan dimensions and details relative to existing structure have been taken from field measurements and are subject to nominal variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

All timber shall be treated in accordance with Section 1007.12 of the Standard Specifications.

The Contractor shall predrill holes where required for driving nails. The cost of predrilling holes will be included with "Hardware".

All hardware shall be hot dip galvanized according to AASHTO M232, Class C.

**STRESSES**

F<sub>b</sub> = 725 psi (Red Oak No. 2, 2" to 4" thick, 5" and wider)

**TOTAL BILL OF MATERIAL**

| ITEM  | UNIT    | TOTAL |
|---|---------|-------|
| Remove and Re-Erect Steel Plate Beam Guardrail, Single Rail | Foot    | 233   |
| Removal of Existing Bridge Deck                             | Each    | 1     |
| Removal of Existing Backwalls and Wingwalls                 | Sq. Ft. | 196   |
| Treated Timber  | F.B.M.  | 17595 |
| Bridge Rail   | Foot    | 233   |
| * Hardware  | Pound   | 1292  |
| Furnishing Steel Piles, HP 10x42                            | Foot    | 48    |
| Driving Piles   | Foot    | 48    |

\* Includes bolts attaching curb to deck and rail posts, bolts attaching deck to steel beams, and fasteners connecting backwalls and wingwalls to new and existing piling.

|          |        |
|----------|--------|
| DESIGNED | F.L.L. |
| CHECKED  | M.A.H. |
| DRAWN    | F.L.L. |
| CHECKED  | M.A.H. |



Date Signed: 2/11/2008  
Expiration Date: 11/30/2008

**APPROVED**  
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson  
ENGINEER OF BRIDGES AND STRUCTURES

**GENERAL PLAN & ELEVATION**  
**THUNDER BRIDGE**  
**STEPHEN FORBES STATE PARK**  
**MARION COUNTY**  
**STRUCTURE NO. 061-9920**