

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
-	*	SANGAMON	559	342
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 2

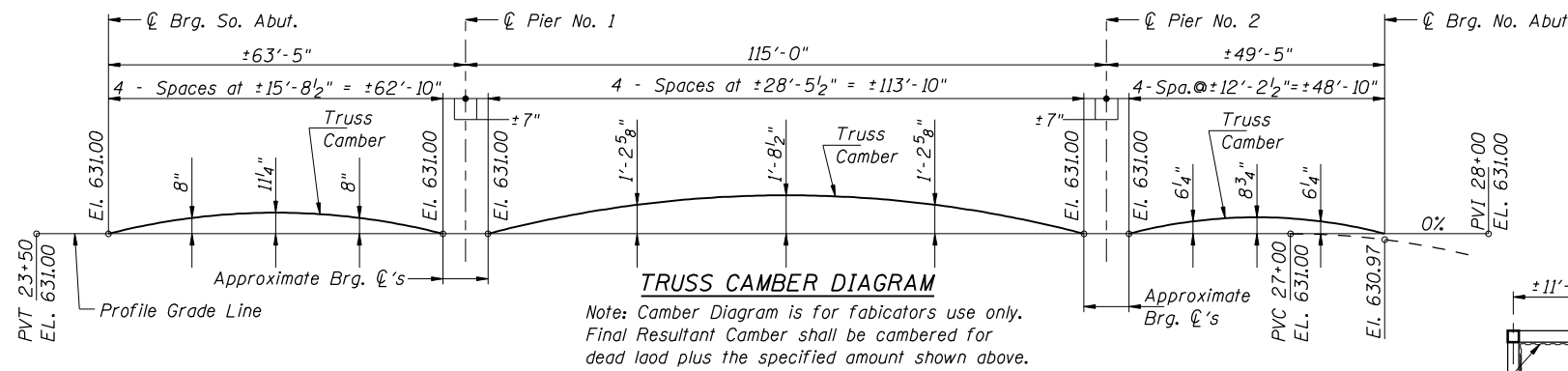
4 SHEETS

\*02-00382-02-PV

CONTRACT NO. 72541

**GENERAL NOTES**

- Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.
- The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
- An unconfined compressive strength of 1.5 tons is required during placement of embankment material.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/2" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.
- The piles at the abutments shall be driven through 18"φ pre-cored holes extending down to Elev. 601.00 at the S. Abut. and 600.00 at the N. Abut. or to the present ground elevation whichever occurs first. The annular space around the pile shall then be backfilled with dry loose sand. The cost of complying with these requirements shall be included with driving steel piles.
- The Contractor shall drive four HP10x42 test piles in permanent locations, one at each abutment, and one at each pier, as directed by the Engineer before ordering the remainder of piles.
- All Construction joints shall be bonded.
- No deck drains will be permitted in the span over the tracks or within 10' of cross arm of railroad pole line.
- The Prefabricated Pedestrian Truss shall not be painted.
- See final plans for adjacent structure, Structure Number 084-0512, for boring data information for the following borings; MAS 12, MAS 14, MAS 16 and MAS 18.
- Concrete Sealer shall be applied to the seat area of the abutment caps and pier caps.
- The Steel H-piles shall be according to AASHTO M270 Grade 50.
- The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.

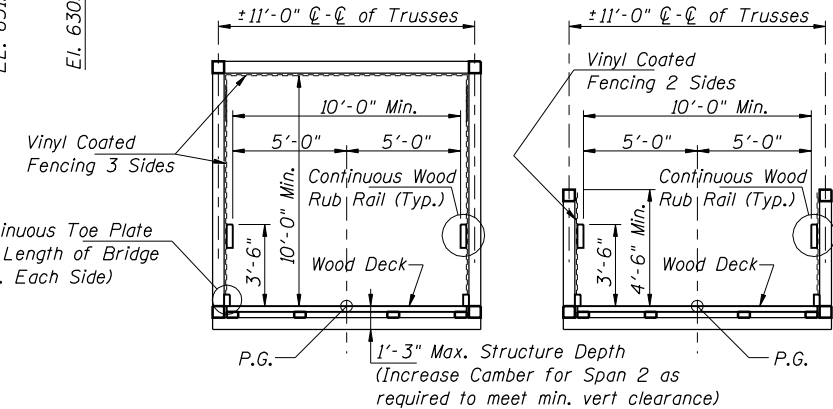


**BRIDGE REACTIONS**

	* TRUSS REACTIONS (+)=Downward (-)=Upward							
	Span 1			Span 2			Span 3	
	P (Lbs)	H (Lbs)	L (Lbs)	P (Lbs)	H (Lbs)	L (Lbs)	P (Lbs)	L (Lbs)
Dead Load	5000	-	-	16000	-	-	4000	-
Uniform Live Load	13815	-	-	24440	-	-	10840	-
Vehicle Load	5000	-	-	5000	-	-	5000	-
Wind Uplift 20psf	-5200	-	-	-9490	-	-	-4080	-
Wind	±1985	6295	-	±10830	19725	-	±1505	4940
Thermal	-	-	1750	-	-	2400	-	1400

P - Vertical Load at Each Bearing ( 4 per Span )  
H - Horizontal Load at Each Substructure ( 2 per Span )  
L - Longitudinal Load at Each Bearing ( 4 per Span )

\*Hanson Professional Services Inc. design includes substructure elements only. Abutment and Pier design and details are based on assumed typical reactions and dimensions. Contractor shall verify that final design and details are compatible with the selected superstructure prior to construction. The Contractor shall employ a Structural Engineer licensed in the State of Illinois to provide alternate abutment and pier designs as required.

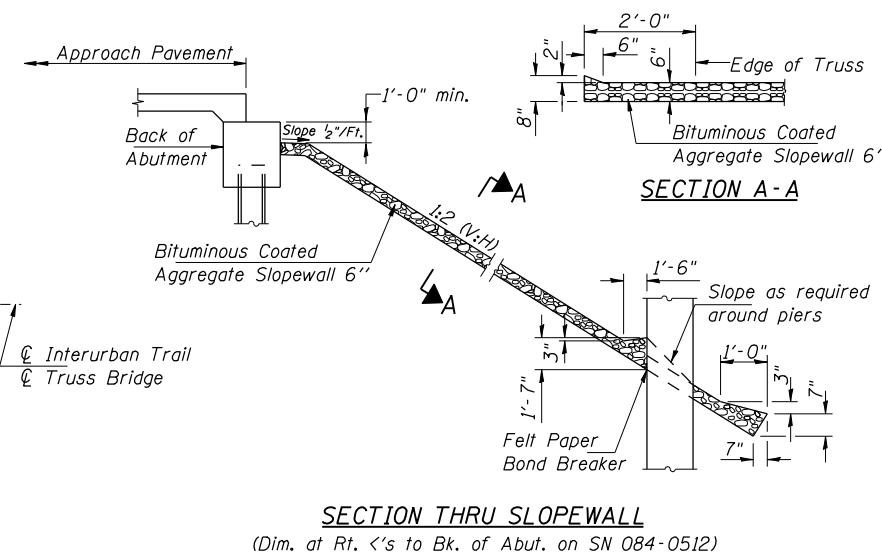
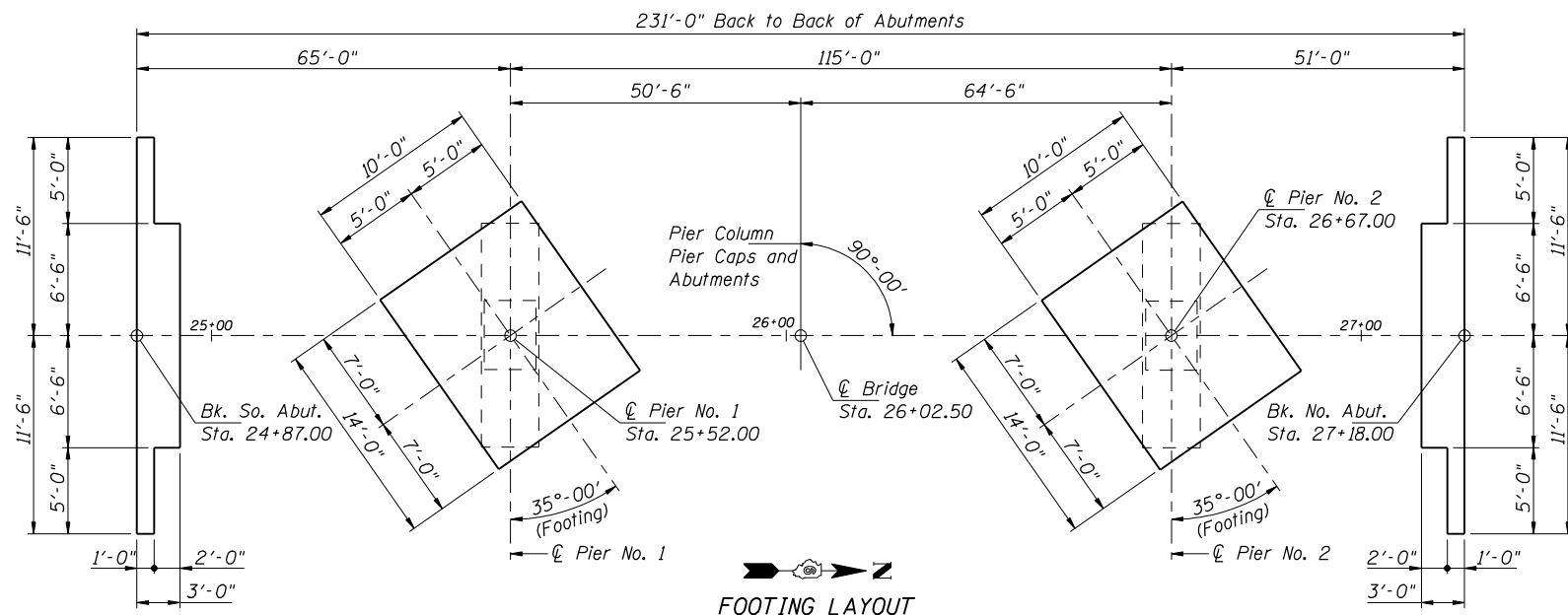


**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu. Yd.	-	151.5	151.5
Concrete Structures	Cu. Yd.	-	68.3	68.3
Pedestrian Truss Superstructure	Sq. Ft.	2290	-	2290
Reinforcement Bars, Epoxy Coated	Pound	-	13520	13520
Bituminous Coated Aggregate	Sq. Yd.	-	245.0	245.0
Slopewall, 6 Inch	Sq. Yd.	-	245.0	245.0
Furnishing Steel Piles HP 10x42	Foot	-	865	865
Driving Piles	Foot	-	865	865
Test Pile Steel HP 10x42	Each	-	4	4
Name Plates	Each	1	-	1
Concrete Sealer	Sq. Ft.	-	159	159

INTERURBAN TRAIL  
BUILT 20-- BY  
CITY OF SPRINGFIELD  
SECTION 02-00382-02-PV  
STATION 26+02.50  
STR. NO. 084-7008  
LOADING H-5 TRUCK

**NAME PLATE**  
See Std. 515001



**INDEX of SHEETS**

- General Plan and Elevation
- General Notes and Bill of Material
- North & South Abutment Details
- Pier Details

GENERAL NOTES and BILL OF MATERIAL  
INTERURBAN TRAIL OVER N.S. R.R.  
SECTION 02-00382-02-PV  
SANGAMON COUNTY  
STATION 26+02.50  
STRUCTURE NO. 084-7008

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JOB NO.  
96S2002b  
DATE  
03/08/06

12/16/2006 \$FILE\$  
LAYOUT  
DRAWN M.A.M. 10/21/05  
REVISED M.A.M. 10/21/05