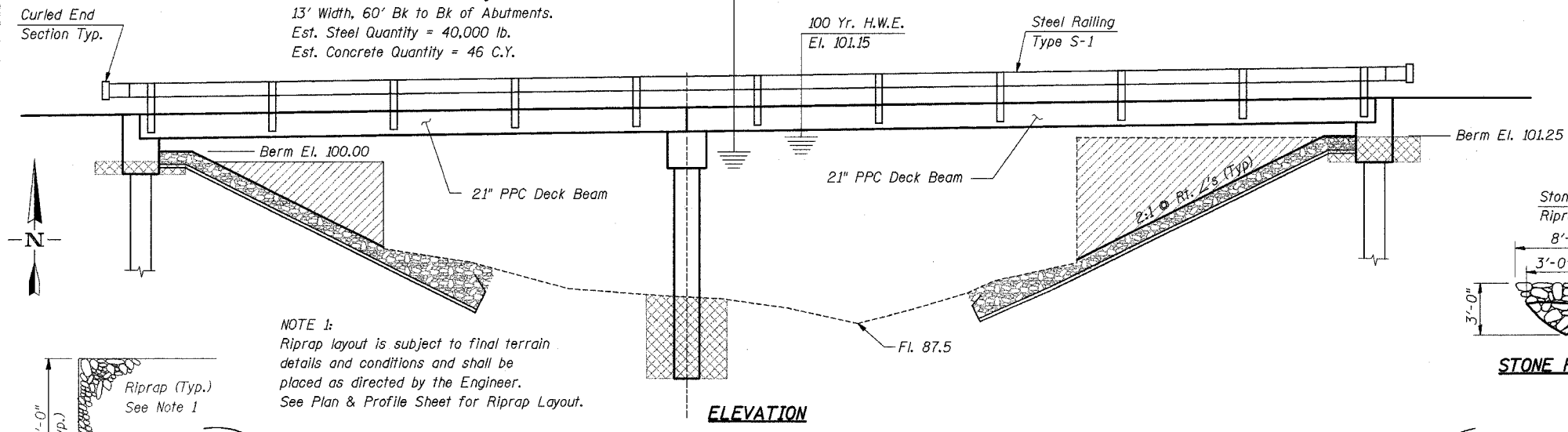


T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
235	93-02108-00-BR	CHRISTIAN	16	10
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
SHEET 1 OF 7				

B.M. #1 - Chisled "X" in Top Steel Plate at N.W. Corner of Bridge.
El. = 100.00

EXISTING STRUCTURE - TO BE REMOVED
Structure # 011-3287. 4-Span modified Steel Pony Truss. Original Truss was cut off 1' above Timber Deck with closed Concrete Abutments and Wing Walls. Steel Caisson Bents. 13' Width, 60' Bk to Bk of Abutments. Est. Steel Quantity = 40,000 lb. Est. Concrete Quantity = 46 C.Y.

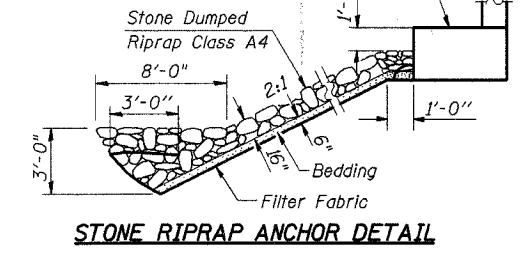


- Channel Excavation
- Structure Excavation
- Stone Dumped Riprap Class A4

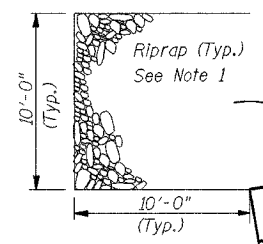
GENERAL NOTES

See Proposal for Boring Data
The Contractor shall drive one steel test pile at each abutment and at Pier as directed by the Engineer before ordering the remainder of the piles.
Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.

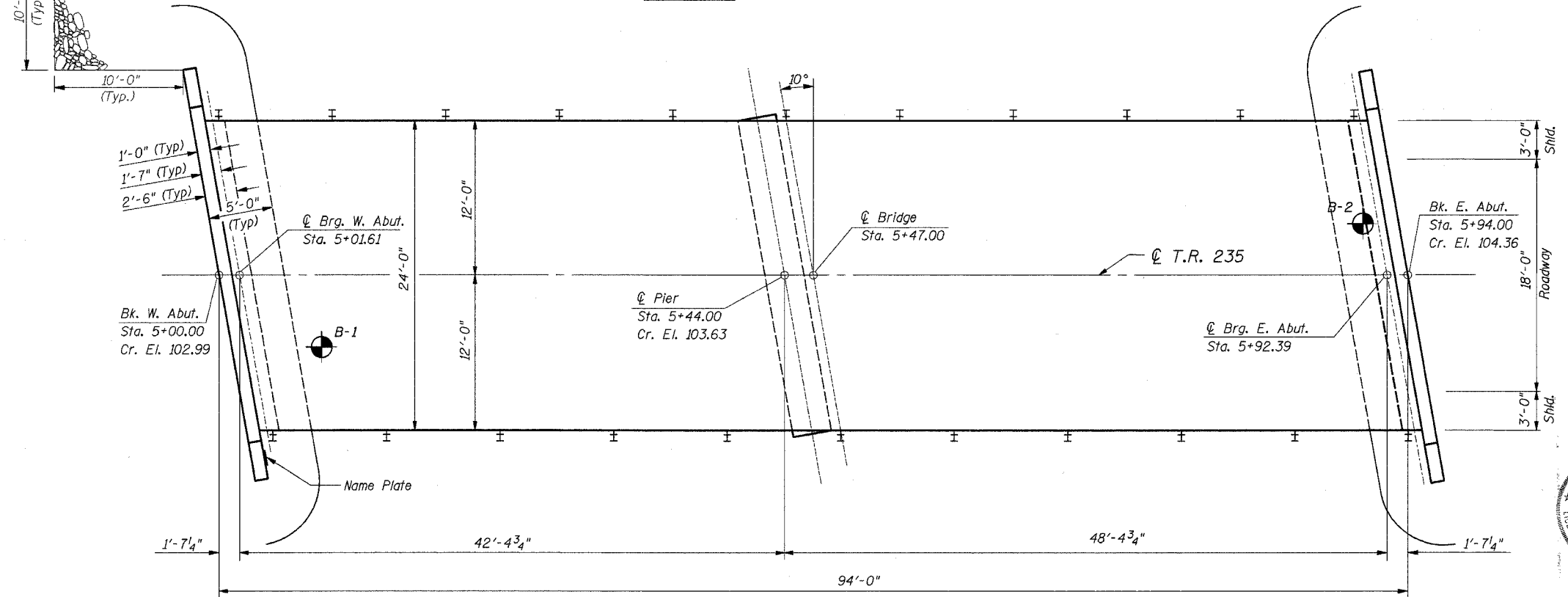
PRAIRIE FORK CREEK
BUILT 200 BY
CHRISTIAN COUNTY
SEC. 93-02108-00-BR
TR 235 STA. 5+47.00
STR. NO. 011-3399 LOADING HS 20
NAME PLATE
(See Std. 515001)



NOTE 1:
Riprap layout is subject to final terrain details and conditions and shall be placed as directed by the Engineer. See Plan & Profile Sheet for Riprap Layout.

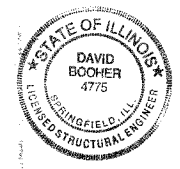


ELEVATION



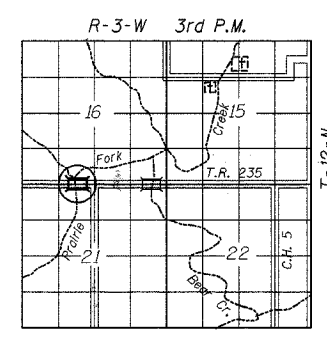
ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu. Yd.		33	33
Concrete Structures	Cu. Yd.		47.4	47.4
Reinforcement Bars	Pound		4610	4610
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	2205		2205
Steel Railing, Type S-1	Foot	185		185
Furnishing Steel Piles HP 10 x 42	Foot		287	287
Driving Steel Piles	Foot		287	287
Test Pile Steel HP 10 x 42	Each		3	3
Concrete Encasement	Cu. Yd.		3.6	3.6
Name Plates	Each	1		1
Removal of Existing Structures	Each		1	1
Channel Excavation	Cu. Yd.		91	91
Stone Dumped Riprap	TONS		302	302
Filter Fabric for Riprap	Sq. Yd.		450	450
Underwater Structural Excavation Protection (Location 1)	Each		1	1

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges.



David Booher
David Booher, Illinois S.E. 081-004775 Date 8-19-04
Expires 11-30-2004

GENERAL PLAN AND ELEVATION
T.R. 235 OVER PRAIRIE FORK CREEK
SECTION 93-02108-00-BR
CHRISTIAN COUNTY
STR. NO. 011-3399
STA. 5+47.00



LOCATION MAP

PLAN

WATERWAY INFORMATION

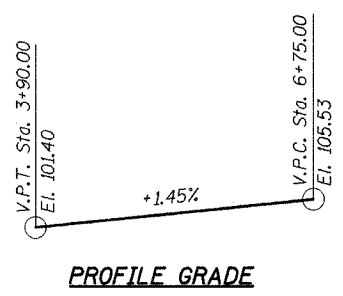
Drainage Area	28.38	Sq.Mi.
Required Opening (15yr.)	616	Sq.Ft.
Provided Opening	616	Sq.Ft.
Present Opening	401	Sq.Ft.
15yr. Discharge	2393	cfs
100yr. Discharge	3876	cfs
Created Head (15yr.)	<0.5	Ft.
Created Head (100yr.)	<1.0	Ft.

DESIGN STRESSES

Precast Unit	Cast-In-Place Unit
f'c = 5,000 psi	f'c = 3500 psi
f'cl = 4000 psi	f's = 60,000 psi
f's = 270,000 psi	n = 9
f'si = 189,000 psi	

LOADING HS 20
DESIGN SPECIFICATION:
AASHTO 2002 Standard Specifications for Highway Bridges & Interms.
FUTURE WEARING SURFACE: 50 lb/Sq. Ft.

IDNR/OWR has issued Permit DS2004024 for the construction of this project.



PROFILE GRADE

FILE: G:\30237\CAD\STRUCT\30237GPE.DGN 08/19/04 08:28:50 AM