

Existing Structure: S.N. 052-3510
Two-Span (2 @ 51'-9") R.C. Deck on Steel Stringers Supported by Closed Concrete Abutments and a Reinforced Concrete Pier.
See Plan & Profile for Location of Existing Structure. Existing Structure to be Removed by Others.

Bench Mark: #1 Sta. 12+21.29 Lt. 30.53'
R.R. Spike in P.P.
Elev.=738.91

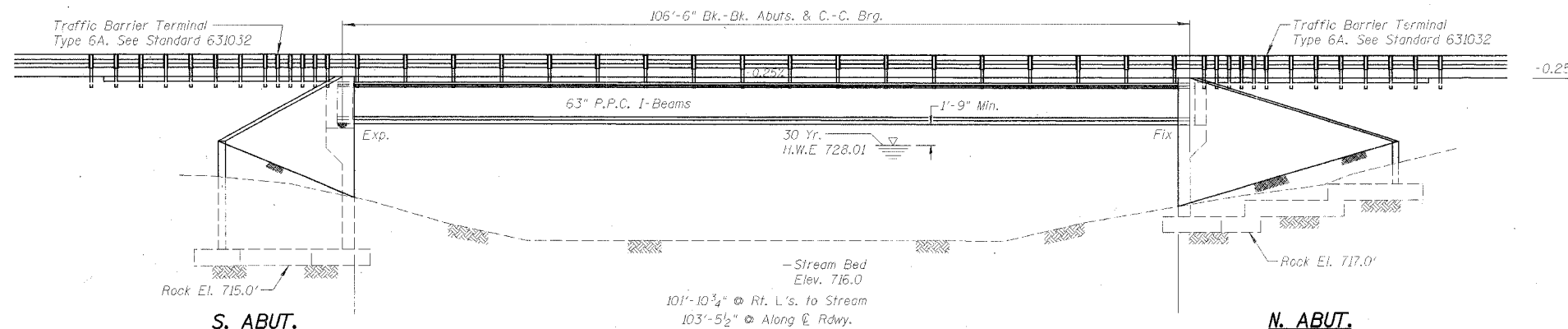
Bench Mark: #2 Sta. 16+98.27 Rt. 119.37'
R.R. Spike in P.P.
Elev.=736.96

Bench Mark: #3 Sta. 20+71.45 Rt. 111.99'
Chiseled "C" on NW Wingwall of Exist. Bridge. Elev.=733.68

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
201	01-00282-00-BR	LEE	51	15
FED. ROAD DIST. NO. 1		PROJECT	FED. NO. PROJECT	

STRUCTURAL SHEET 1 OF 15

2-27-06

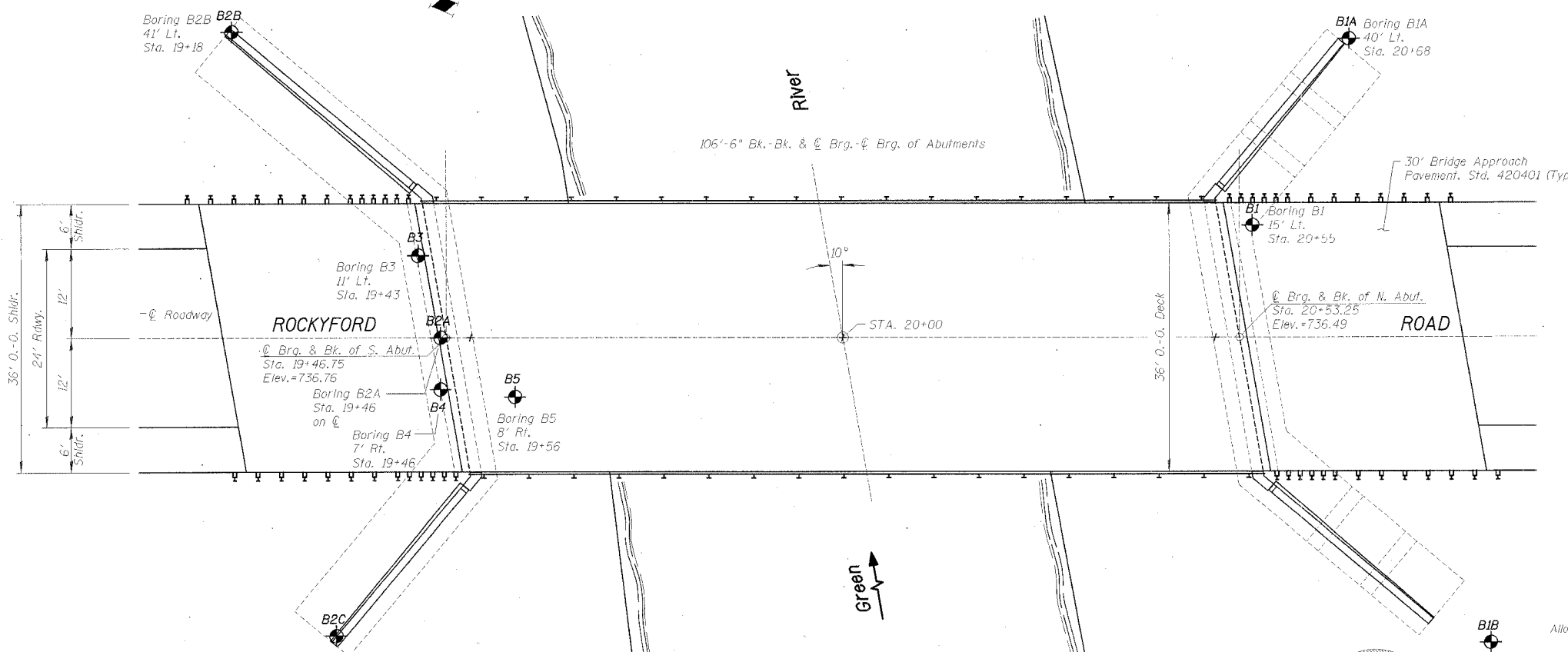


ELEVATION VIEW
(Dimensions Along & Roadway Unless Noted Otherwise)

BILL OF MATERIAL - BRIDGE

ITEM	UNIT	SUB	SUPER	TOTAL
Porous Granular Backfill	Cu. Yd.	102	---	102
Removal of Existing Structure	Each	---	---	1
Structure Excavation	Cu. Yd.	433	---	433
Rock Excavation for Structures	Cu. Yd.	63	---	63
Concrete Structures	Cu. Yd.	267.5	---	267.5
Concrete Superstructure	Cu. Yd.	---	159.5	159.5
Bridge Deck Grooving	Sq. Yd.	---	411	411
Elastomeric Bearing Assembly, Type I	Each	---	6	6
Furnishing & Erecting PPC Bulb T Beams, 63"	Foot	---	647	647
Reinforcement Bars, Epoxy Coated	Pound	30500	26250	56750
Steel Bridge Rail, Type SM	Foot	---	206	206
Name Plates	Each	---	1	1
Permanent Survey Markers, Type I	Each	---	1	1
Bar Splicers	Each	---	74	74

2-27-06



PLAN VIEW

HORIZONTAL CURVE DATA

P.I. Sta.=23+44.65
S.E.=0.08 Ft./Ft.
P.C. Sta.=20+84.85
P.T. Sta.=25+88.00
S.E. Transition=190'
Super Transition: 19+58.18 - 21+48.18
Full Super: 21+48.18 - 25+24.67
Super Transition: 25+24.67 - 27+14.67

PROFILE GRADE
(Along & Roadway)

WATERWAY INFORMATION

DRAINAGE AREA 188 Sq. Mi.
DESIGN DISCHARGE (30 YR.) 8340 C.F.S.
EXISTING OPENING 1012 Sq. Ft.
REQUIRED OPENING 1012 Sq. Ft.
PROPOSED OPENING 1081 Sq. Ft.
CREATED HEAD (30 YR.) < 0.5'
100 YR. DISCHARGE 10050 C.F.S.
CREATED HEAD (100 YR.) < 1.0'
HIGH WATER ELEV. (100 YR.) 728.96 Ft.

ROCKYFORD ROAD OVER GREEN RIVER
BUILT 2006 BY
LEE COUNTY
SECTION 01-00282-00-BR
C.H. 33 STA. 20+00
STR. NO. 052-3512 LOADING HS20

NAME PLATE LETTERING
Refer to Std. 515001

DESIGN SPECIFICATIONS

Design in Accordance With 2002 AASHTO Specifications.

LOADING HS20-44

Allow 50#/Sq. Ft. For Future Wearing Surface

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.035
Site Coefficient (S) = 1.2

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

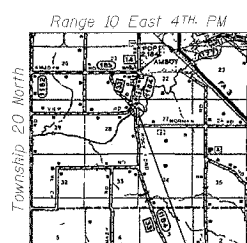
PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ psi
 $f_y = 5,000$ psi
 $f'_s = 270,000$ psi (f'_s # Low Lax Strands)
 $f_{st} = 201,960$ psi (f_{st} # Low Lax Strands)



Brian K. Converse
DATE: 10/21/05
EXPIRES 11/30/06

"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.'"



LOCATION SKETCH

GENERAL PLAN AND ELEVATION SECTION 01-00282-00-BR ROCKYFORD ROAD OVER GREEN RIVER STA. 20+00 (S.N. 052-3512) LEE COUNTY

WILLET HOFMANN & ASSOCIATES, Inc.
Consulting Engineers
WHA # 1154D03

Design By: B.K. Converse
Date: 9/04
Checked By: M.R. Leslie
Date: 11/04
Drawn By: R.D. Allen
Date: 10/04