

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S 782 (KEYESPORT ROAD)	05-00084-00-BR 05-00079-00-BR	CLINTON & BOND	13	5

CONTRACT NO. 97272

GENERAL NOTES

- See Special Provisions for boring logs.
- Width of pier and abutment caps shown were field measured at 28'-6" not 28'-0" as shown in the existing plans.
- Keyway surfaces shall be cleaned to remove form oil or other bond breaking materials prior to shipment of beams. Cleaning shall be done by sandblasting the keyway areas between the top of the beam and the bottom edge of the key.
- Class SI concrete shall be used throughout except in the deck beams.
- Span distances are taken from field measurements of the existing structure not from the existing plans.
- Existing plans used a different benchmark and should be adjusted upwards by 3.42' to match an existing U.S.G.S. benchmark on this site.
- The Contractor shall repair, at his/her own expense, any damage to the existing slopewall resulting from the removal of the existing superstructure or any other operation of the Contractor.

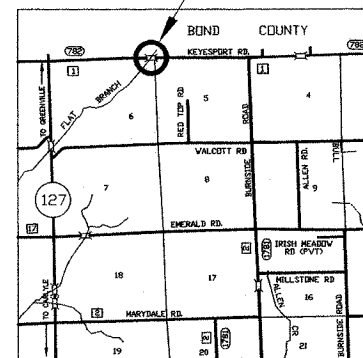
EXISTING STRUCTURE

THE EXISTING STRUCTURE IS A THREE SPAN PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE ON CONCRETE SPILL THRU ABUTMENTS CAST ON 12" PRECAST PILES. THE EXISTING CONCRETE PIER CAPS ARE CAST ON 14" PRECAST CONCRETE PILES. THE EXISTING SUPERSTRUCTURE CONSISTS OF 21 INCH DEEP PRECAST PRESTRESSED CONCRETE DECK BEAMS WITH SPAN LENGTHS OF 37'-0 1/2", 37'-11" AND 37'-0 1/2". THE OUT TO OUT WIDTH OF THE DECK IS 27'-0" AND IT PROVIDES A 24'-6" CLEAR ROADWAY WIDTH BETWEEN CURBS. CONCRETE SLOPEWALLS ARE CONSTRUCTED AT BOTH ABUTMENTS. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING DECK AND BRIDGE RAIL IN ACCORDANCE WITH SECTION 501 OF THE STANDARD SPECIFICATIONS.

SALVAGE

THE EXISTING ABUTMENTS, ABUTMENT PILES, PIER CAPS, PIER PILES AND SLOPEWALLS SHALL BE SAVED AND PROTECTED TO BE USED IN THE CONFIGURATION OF THE NEW STRUCTURE. SEE SPECIAL PROVISIONS.

STRUCTURE LOCATION



LOCATION MAP

FLAT BRANCH
REBUILT 2006 BY
CLINTON/BOND COUNTY
SECTION 05-00084-00-BR
SECTION 05-00079-00-BR
F.A.S. RT. 782, STATION 66+73
STR. 014-3000, LOADING HS-20-44

NAME PLATE

LOCATE NAME PLATE AS SHOWN IN PLAN VIEW. (SEE STD. CN)

DESIGN STRESSES

PRECAST PRESTRESSED UNITS

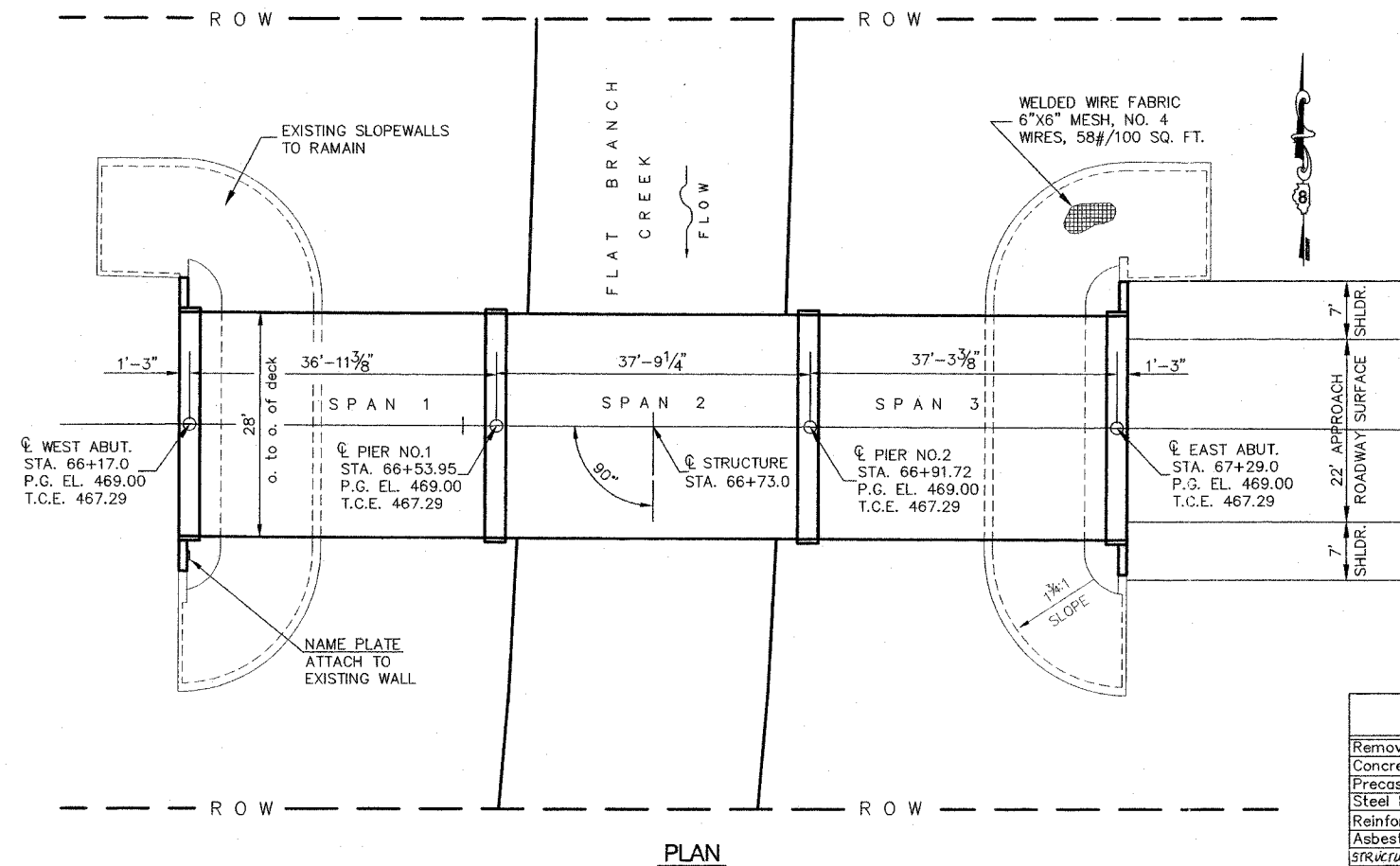
$f_c = 5,000$ p.s.i.
 $f_{ci} =$ SEE DECK BEAM DETAILS
 $f_s = 270,000$ p.s.i.
 $f_s = 189,000$ p.s.i.

CAST IN PLACE CONCRETE

$f_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (REINF.)

LOADING HS 20-44 LOAD FACTOR DESIGN

ALLOW 25 P.S.F. FOR FUTURE WEARING SURFACE
A.A.S.H.T.O. SEISMIC HORIZONTAL ACCELERATION COEFFICIENT: 8.9% OF GRAVITY
DESIGN SPECIFICATION: 2002 A.A.S.H.T.O.
S.P.C. = A, SOIL PROFILE COEFF. S = 1.0



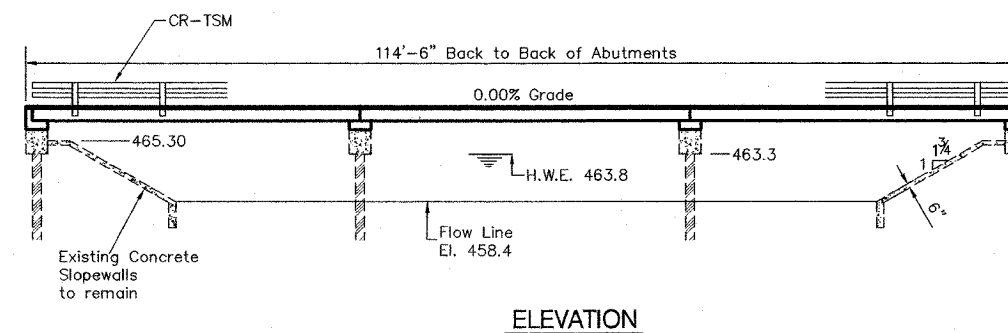
PLAN

TOTAL BILL OF MATERIALS

ITEM	UNIT	SUPER	SUB.	Total
Removal of Existing Structures	Each			1
Concrete Structures	Cu. Yd.		13.0	13.0
Precast Prestressed Conc. Deck Beams - 17" Depth	Sq. Ft.	3,157.0		3,157.0
Steel Bridge Rail, Type SM	Foot	226.0		226.0
Reinforcement Bars, Epoxy Coated	Pound		1,350.0	1,350.0
Asbestos Bearing Pad Removal	Each		2.0	2.0
STRUCTURAL REPAIR OF CONCRETE (Depth Equal to or Less Than 5")	Sq. Ft.		54.0	54.0
Name Plate	Each			1.0
Bit. Conc. Surf. Cse., Superpave, Mix "C", N50	Ton	45.0		45.0
Portland Cement Mortar Fairing Course	Foot	678.0		678.0
Waterproofing Membrane System	Sq. Yd.	356.0		356.0

INDEX OF BRIDGE SHEETS

- GENERAL PLAN AND ELEVATION
- ABUTMENT DETAILS
- PIER DETAILS
- P.P.C. DECK BEAM SUPERSTRUCTURE
- P.P.C. DECK BEAM DETAILS
- STANDARD CR-TSM
- EXISTING PLANS: GENERAL PLAN & ELEVATION
- EXISTING PLANS: DECK BEAMS
- EXISTING PLANS: SUBSTRUCTURE



ELEVATION



"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."

Expires 11-30-2006

GENERAL PLAN & ELEVATION

F.A.S. 782 (KEYESPORT ROAD)
OVER FLAT BRANCH
SECTION 05-00084-00-BR
SECTION 05-00079-00-BR
CLINTON & BOND COUNTY
S.N. 014-3000