ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 5 (SHATTUC RD)	02-00079-00-BR	CLINTON	15	6

CONTRACT NO. 97267

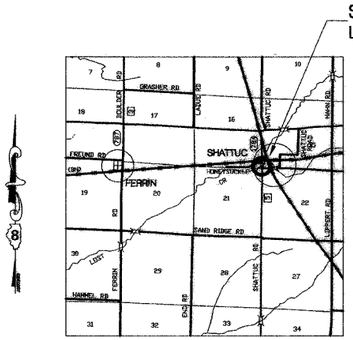
EXISTING STRUCTURE

THE EXISTING STRUCTURE IS A THREE SPAN CONTINUOUS CONCRETE SLAB WITH SPAN LENGTHS OF 32'-0", 40'-6" AND 32'-0". THE EXISTING CONCRETE SLAB IS 1'-4" THICK AND PROVIDES A 24'-0" CLEAR ROADWAY WIDTH. THE EXISTING SPILL THRU ABUTMENTS ARE CAST IN PLACE CONCRETE AND ARE SUPPORTED BY CREOSOTED TIMBER PILES. CONCRETE SLOPEWALLS ARE CONSTRUCTED ON BOTH ABUTMENTS. THE EXISTING PIER CAPS ARE CAST MONOLITHICALLY WITH THE CONCRETE DECK AND ARE SUPPORTED ON METAL SHELL PILES. THE CONTRACTOR SHALL REMOVE THE EXISTING CONTINUOUS CONCRETE SLAB DECK AND PIER CAPS IN ACCORDANCE WITH SECTION 501 OF THE STANDARD SPECIFICATIONS.

SALVAGE

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

SEE SPECIAL PROVISIONS.

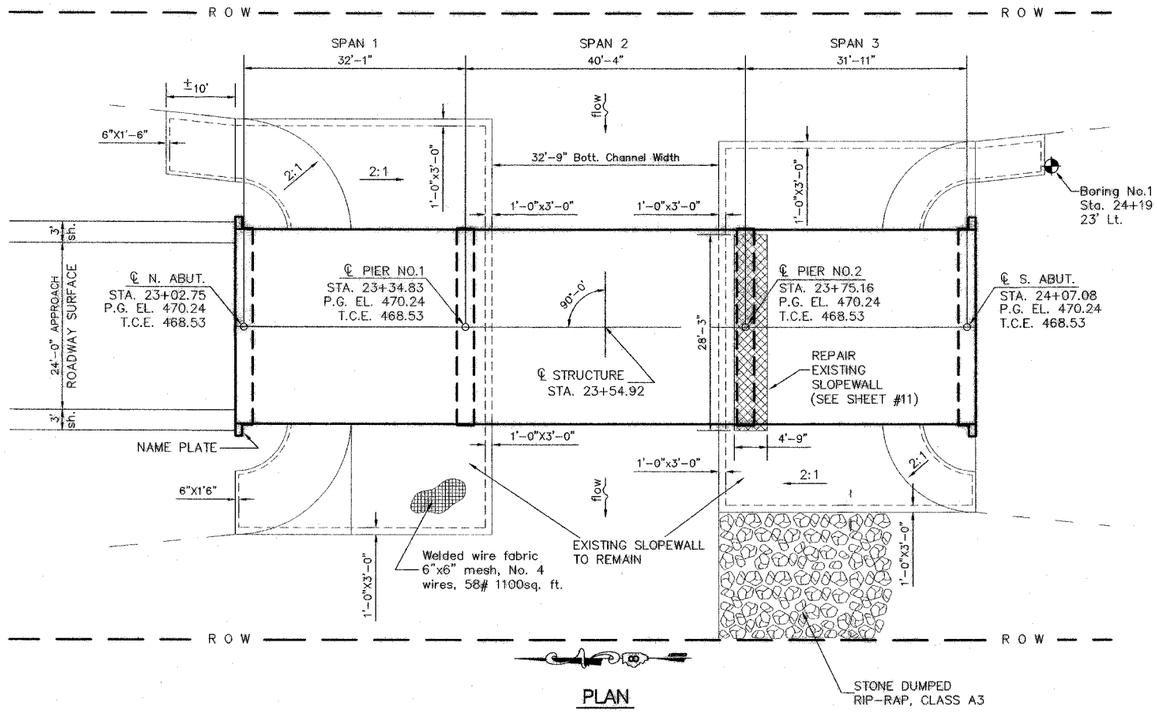


LOCATION SKETCH

LOST CREEK
REBUILT 200_ BY
CLINTON COUNTY
SECTION 02-00079-00-BR
F.A.S. RT. 1784 STATION 23+54.92
STR.NO.014-3014 LOADING HS-20-44

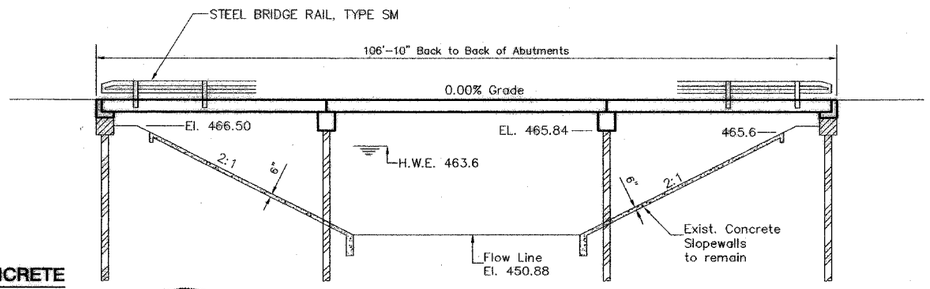
NAME PLATE

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



PLAN

Boring No.2
Sta. 23+15
70' Rt.



ELEVATION

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
fy = 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: 9.5% OF GRAVITY
DESIGN SPECIFICATION: 2002 A.A.S.H.T.O.
S.P.C. = B, SOIL PROFILE COEFF. S = 1.0

STATE OF ILLINOIS
RALPH E. ANDERSON
081-004625
LICENSED STRUCTURAL ENGINEER
SPRINGFIELD

Ralph E. Anderson 8-29-05
Expires 11-30-06

GENERAL NOTES

1. See Special Provisions for boring logs.
2. A Calcium Nitrite Corrosion inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.
3. 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.
4. Class SI concrete shall be used throughout except in the deck beams.
5. The reference to Standard 2340 on Standard CR-TSM shall be revised to refer to Standard 631026-02.
6. Span distances are from field measurements not from dimensions shown on existing plans.
7. The existing pier caps are cast monolithically with the deck and shall be removed with the deck. The cost of this removal shall be included with cost per each Removal of Existing Superstructures.
8. REMOVAL OF EXISTING SUPERSTRUCTURE:
   The Contractor is advised that the existing superstructure is a continuous structure and removal must be done in a proper sequence, possibly with falsework support, in order to avoid a potentially hazardous collapse of the span or spans adjacent to the removal area. The sequence of removal and the use of any required falsework is the responsibility of the Contractor and shall be taken into account in his/her contract bid price for REMOVAL OF EXISTING SUPERSTRUCTURE.

   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 operations of the Contractor.

TOTAL BILL OF MATERIALS

ITEM	UNIT	SUPER	SUB. Piers	SUB. Abuts.	Total
Removal of Existing Superstructures	Each	1	———	———	1
Concrete Removal	Cu.Yd.	———	———	4.0	4.0
Concrete Structures	Cu.Yd.	———	16.4	7.6	24.0
Precast Conc. Deck Beams – 17" Depth	Sq. Ft.	2,947	———	———	2,947
Steel Bridge Rail, Type SM	Foot	211	———	———	211
Reinforcement Bars, Epoxy Coated	Pound	———	1,760	1,140	2,900
Asbestos Bearing Pad Removal	Each	———	———	2.0	2.0
Concrete Slopewall Removal	Sq. Ft.	———	———	147.0	147.0
Concrete Slopewall	Sq. Ft.	———	———	147.0	147.0
Name Plate	Each	———	———	———	1
Stone Dumped Rip-Rap	Ton	———	———	30.0	30.0
Bit. Conc. Surface Course, Superpave, Mix "C", N50	Ton	41.6	———	———	41.6
Waterproofing Membrane System	Sq. Yd.	332.1	———	———	332.1

INDEX OF BRIDGE SHEETS

GENERAL PLAN & ELEVATION

C.H. 5 (SHATTUC ROAD)
OVER LOST CREEK
SECTION 02-00079-00-BR
CLINTON COUNTY
STATION 23+55
S.N. 014-3014

NJR
7/15/05
0505GPE.DWG