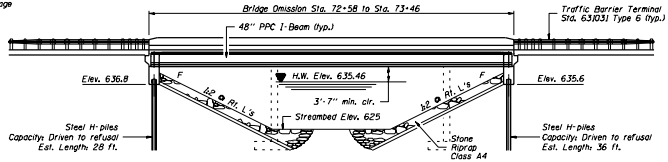
Bench Mark: Chiseled "□" on wing wall @ N.E. corner of bridge S.N. 094-0001 U.S. 67 over Toms Creek Station 73+30 Elev. 642.47

Existing Structure: S.N. 094-0001: Built in 1927 as S.B.I. 85, Section A-101 at Station 73+09
Existing structure is a single span RC deck girder bridge on closed abutments and widened in 1971 with prestressed deck beams. 43'-0" bt. to bt. abutments. 32'-8" out to out of deck. Structure is to be removed and replaced with a single span PPC I-beam bridge.
One lane of traffic is to be maintained using stage construction.

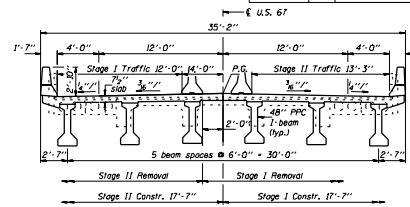
No salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

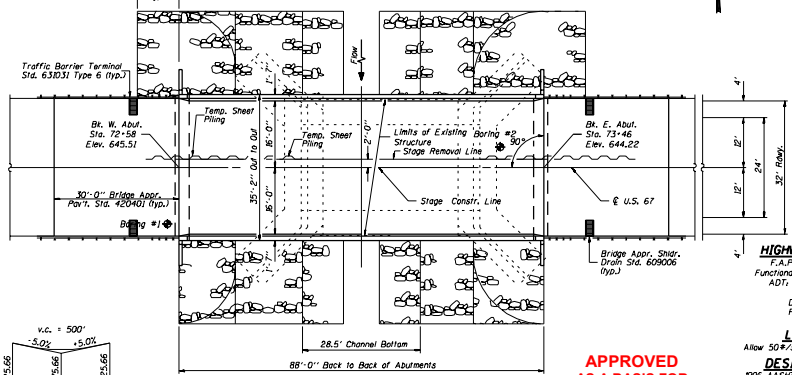
SHEET NO. 1
1 SHEETS



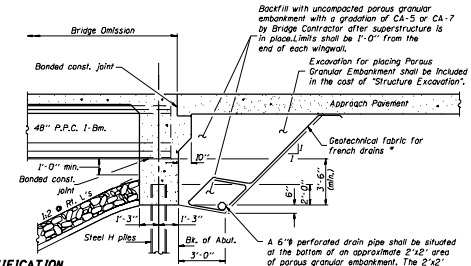
ELEVATION



CROSS SECTION
(Looking East)



PLAN



* - Included in the cost of "Porous Granular Embankment".

SECTION THRU INTEGRAL ABUTMENT

v.c. = 500'
-5.0% +5.0%
P.C. Sta. 71+25.66 Elev. 650.38
P.I. Sta. 73+75.66 Elev. 637.88
P.T. Sta. 76+25.66 Elev. 650.38

PROFILE GRADE
(along ℄ roadway)

HIGHWAY CLASSIFICATION

F.A.P. Rte. 310 - U.S. Rte. 67
Functional Class: Other Principal Arterial
ADT: 2300 (1997); 3943 (2021)
DHV: 390
Design Speed: 55 m.p.h.
Posted Speed: 55 m.p.h.

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

1996 AASHTO with 1997, 1998 & 1999 Interims

DESIGN STRESSES

FIELD UNITS

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

PRECAST PRESTRESSED UNITS

f'_c = 6,000 psi
f'_{ci} = 5,000 psi (reinforcement)
f_{pi} = 270,000 psi (½"Ø low lax. strands)
f_{pu} = 201,960 psi (½"Ø low lax strands)

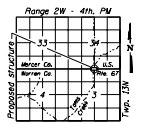
SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 3.6%g
Site Coefficient (S) = 1.0

APPROVED
AS A BASIS FOR
PREPARATION OF DETAILED PLANS
OCT 06 2000

WATERWAY INFORMATION

Drainage Area = 7.8 sq. mi.			Low Grade Elev. 367.5 @ Sta.						
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head Ft. Exist.	Head Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	50	2426	261	517	635.46	0.13	0.07	635.59	635.52
Base	100	2674	277	545	635.86	0.98	0.89	636.18	636.06
Overtopping									
Max. Calc.	500	3080	325	635	637.07	1.12	0.72	638.18	637.79



LOCATION SKETCH

GENERAL PLAN
U.S. ROUTE 67 OVER
TOMS CREEK
F.A.P. ROUTE 310 - SECTION (101BY)BR
WARREN COUNTY
STATION 73+02
STRUCTURE NO. 094-0049

DESIGNED	Alex Siudyla
CHECKED	Tim Craven
DRAWN	W.D. Collins
CHECKED	Alex Siudyla

EXAMINED 20

PASSED

ENGINEER OF BRIDGES AND STRUCTURES