Bench mark: Chiseled " □ " on Northeast corner of Northeast wing wall in SN 010-0014. Elev. = 715.85

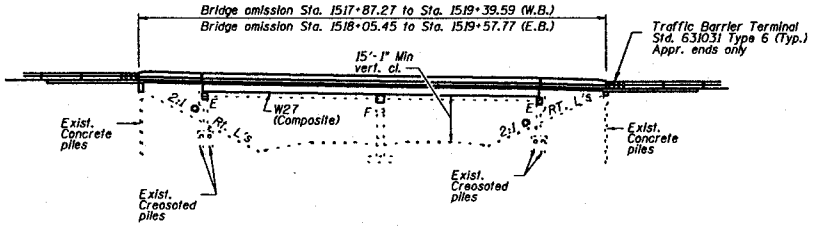
Existing structure NO. 010-0014 & 010-0015
Two Main spans at 57'-3" & 52'-3" and 2 approach Spans at 20' each 153'-4" Bk. to Bk. Approach bents, 42'-0" O. to O. R.C. Deck Built in 1966 as FAI 74 section 10-4HB. The Contractor shall remove existing Concrete Deck, Bearings, Steel Beams and Approach slabs and replace with New Conc. Deck, Elastomeric Bearings and New Composite Steel beams. The road shall be kept open One lane Traffic in each direction at all times by utilizing stage construction. Exising substructure to remain in place.

No salvage.

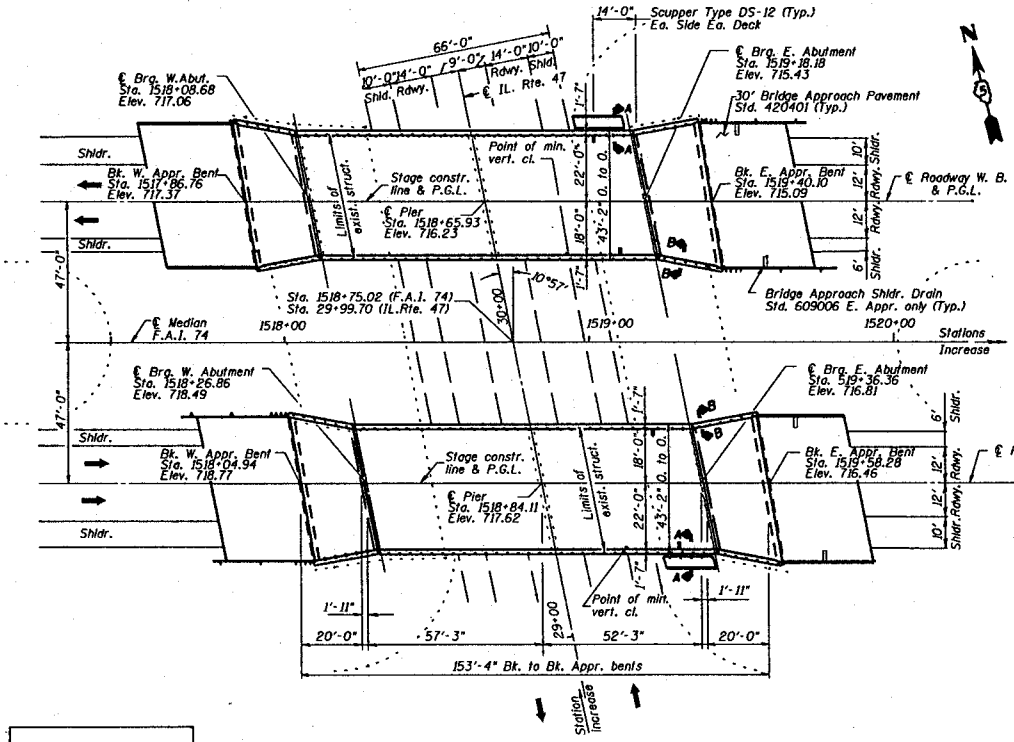
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 1-74	10-4HB BR	CHAMPAIGN		2

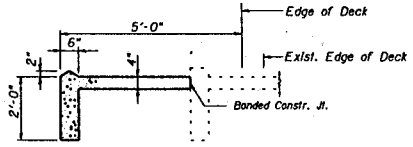
SHEET NO. 1
2 SHEETS



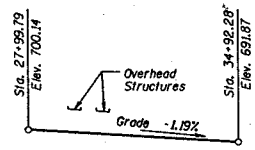
ELEVATION



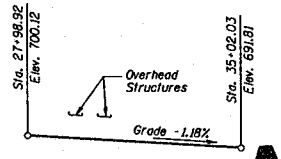
PLAN



SECTION A-A
(East stepwall only)



PROFILE GRADE
IL. RTE. 47 S.B. ROADWAY
(at right edge of pavement)



PROFILE GRADE
IL. RTE. 47 N.B. ROADWAY
(at right edge of pavement)

HIGHWAY CLASSIFICATION

F.A.I. Rte. 74 - IL. 74	F.A.P. 326 - IL. Rte. 47
Functional Class: Interstate	Functional Class: Other Principal Arterial
ADT: 19,000 (1997), 28,000 (2017) (Two way)	ADT: 10,000 (1997)
ADTT = 4,960 (1997)	ADTT = 200 (1997)
DHV = 3,100 (2017)	DHV = 1,150 (2017)
Design Speed: 70 mph	Design Speed: 45 mph
Posted Speed: 65 mph	Posted Speed: 45 mph

DESIGN SPECIFICATIONS
AASHTO 1996 with 1997 thru 2001 Interims

LOADING HS20 & ALT.
Allow 50 psf for future wearing surface.

DESIGN STRESSES
NEW CONSTRUCTION FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (AASHTO M270 GRADE 50)

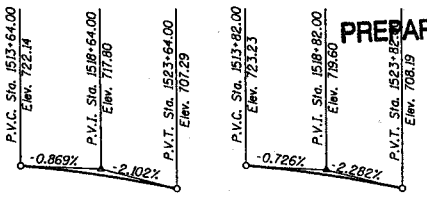
SEISMIC DATA
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 4.6 % g
Site Coefficient (S) = 1.2

SCOPE OF WORK
1. Remove and replace existing superstructure utilizing stage construction.
2. Remove existing expansion and fixed bearings and replace with Elastomeric expansion bearings & low profile Steel fixed bearings.
3. Remove and replace approach slabs.
4. Repair and widen concrete slope walls.
5. Maintain profile grade ± 1'-0½".

APPROVED

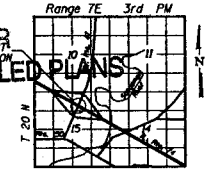
MAY 16 2002

AS A BASIS FOR PREPARATION OF DETAILED PLANS



PROFILE GRADE W.B. ROADWAY
(F.A.I. Rte. 74)

PROFILE GRADE E.B. ROADWAY
(F.A.I. Rte. 74)



LOCATION SKETCH

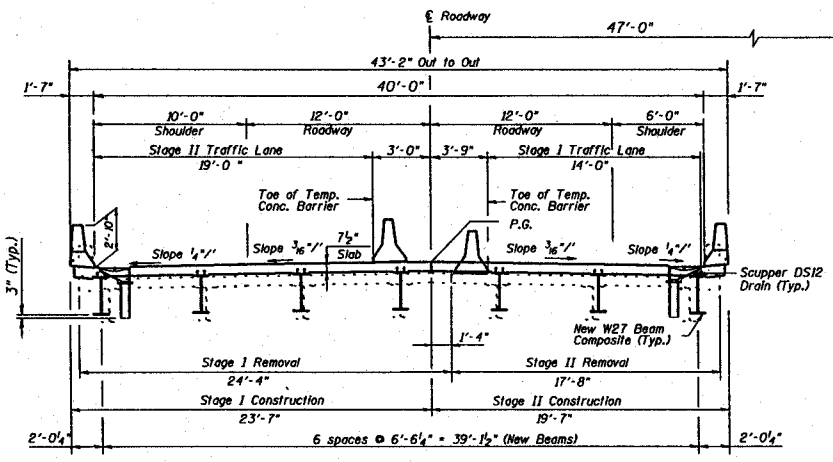
DESIGNED	J. SWAMY
CHECKED	S. PINJARKAR
DRAWN	J. SHAH
CHECKED	D. ROY

GENERAL PLAN
FAI ROUTE 74 OVER
IL. RTE. 47
F.A.I. RTE. 74 - SECTION (10-4HB) BR
CHAMPAIGN COUNTY
STA. 1518+75.02
STRUCTURE NO. 010-0014 (W.B.)
STRUCTURE NO. 010-0015 (E.B.)

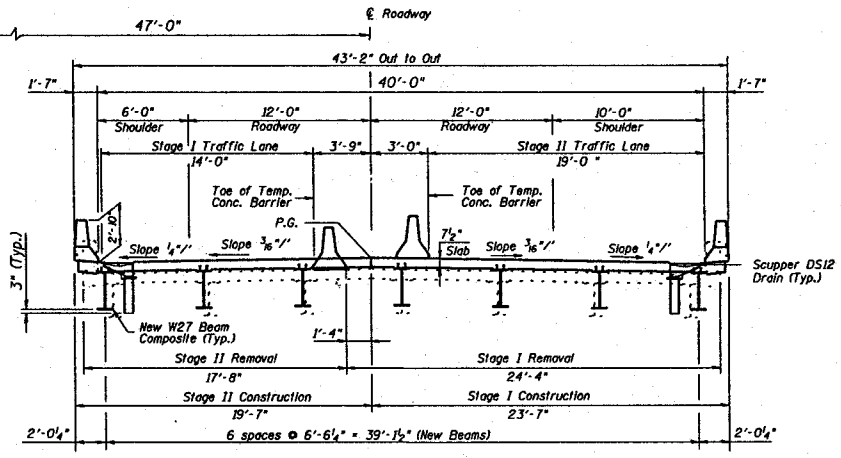
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
A.A.L. F.A.I. 1-74	18-4HB BR	CHAMPAIGN		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 2
2 SHEETS



CROSS SECTION
Looking East for S.N. 074-0014 (W.B.)

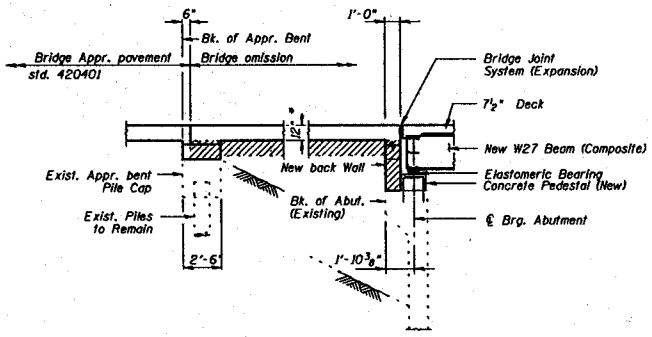


CROSS SECTION
Looking East for S.N. 074-0015 (E.B.)

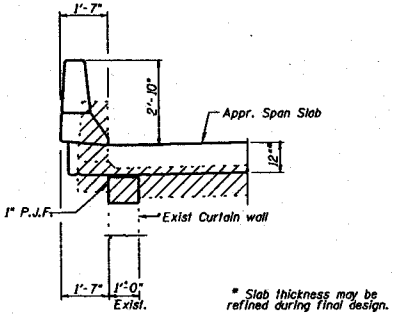
APPROVED

MAY 1 6 2002

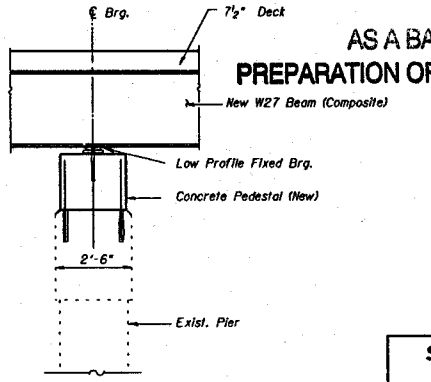
AS A BASIS FOR
PREPARATION OF DETAILED PLANS



SECTION THRU VAULTED ABUTMENT
Dimension @ Rt. L's



SECTION B-B



SECTION THRU PIER

DESIGNED	J. SWAMY
CHECKED	S. PINJARKAR
DRAWN	J. SHAH
CHECKED	D. ROY

SUPERSTRUCTURTE DETAILS

FAI ROUTE 74 OVER
IL. RTE. 47
F.A.I. RTE. 74 · SECTION (10-4HB) BR
CHAMPAIGN COUNTY
STA. 1518+75.02
STRUCTURE NO. 010-0014 (W.B.)
STRUCTURE NO. 010-0015 (E.B.)