CONTRACT NO. 62897

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	2004-132B	COOK	170	89
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BENCH MARK

Chiseled '□' NW Corner of West Abutment of IL-68 bridge over UPRR
Elev. 269.746

EXISTING STRUCTURE

S.N. 016-0523 was built in 1931. The structure was widened, raised, and the superstructure replaced in 1967. In 1994, bituminous overlay was added. The three span structure rests on spread footings at the closed abutments and spread footings at the multi-column piers. The superstructure consists of 690mm deep concrete deck beams with 75mm of overlay. The concrete parapets have steel railings with a fence on the northside. The back to back abutment length is 42.52m and the deck is 23.16m out to out.

During construction of the new structure, staged construction will be utilized to maintain one lane of traffic in each direction.

No salvage.

NOTES:

1. All dimensions in millimeters (mm) except as noted.
2. No free fall deck drains will be permitted in the span over the tracks or within 3m of cross arms of a railroad pole line.
3. The width between the guardrails shall be the width between the bridge rails or parapets which will require approach shoulder widening.

HIGHWAY CLASSIFICATION

IL. Route 68

Functional Class: Principal Arterial
ADT: 21,800 (2003)
ADT: 24,000 (2030)
ADTT: 1308 (2003)
ADTT: 1440 (2030)
DHV: 3,265 (2030)
Design Speed: 70 km/h
Posted Speed: 45 mph (70 km/h)

LOADING HS20-44

Allow 2.4 kN/m² future wearing surface

DESIGN SPECIFICATION

2002 AASHTO Std. Spec, 17th edition

DESIGN STRESSES

NEW CONSTRUCTION

FIELD UNITS
f'c = 24 MPa (concrete)
Fy = 345 MPa (M270M, Gr. 345 Struc. Steel)
fy = 400 MPa (reinforcement)

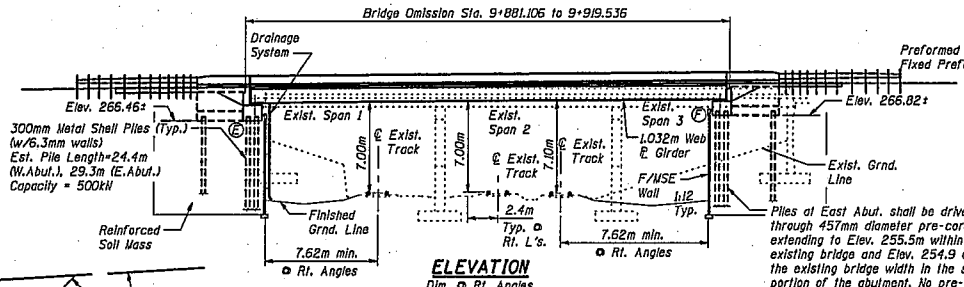
SEISMIC DATA

Seismic Performance Category (SPC)= A
Bedrock Acceleration Coefficient (A)= 0.035g
Site Coefficient (S) = 1.0

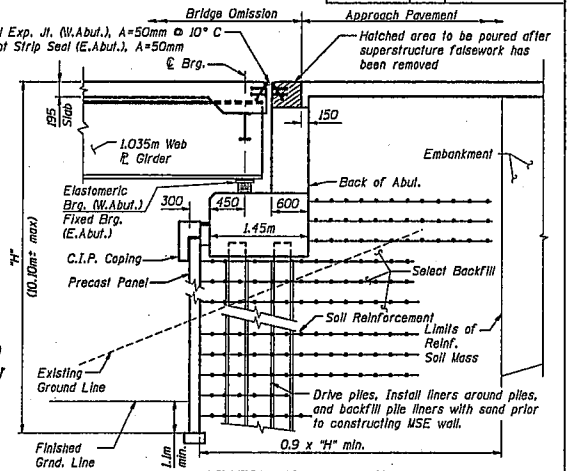
HORIZONTAL CURVE DATA

Curve 68-1

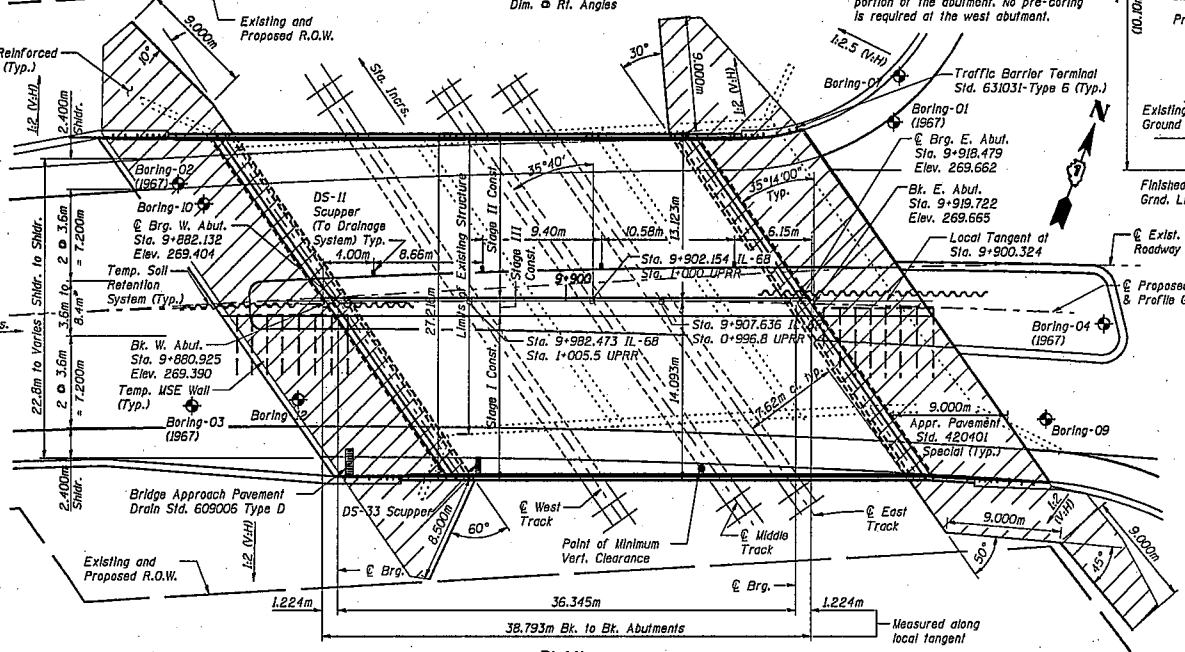
PI Sta. = 9+966.854
L = 14°54'14" RT.
R = 875.000m
T = 114.450m
L = 227.607m
E = 7.453m
S.E. = 2.4%
P.C. Sta. = 9+852.405
P.T. Sta. = 10+080.012



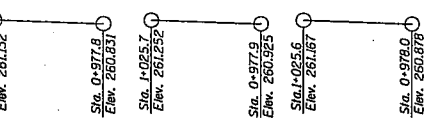
ELEVATION
Dim. @ Rt. Angles



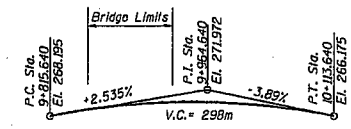
SECTION THRU ABUT.
Dimensions at Right Angles



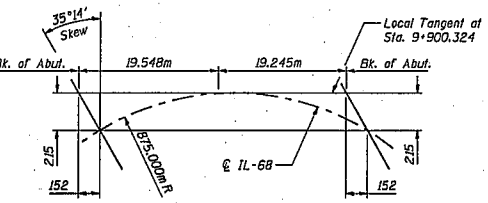
PLAN



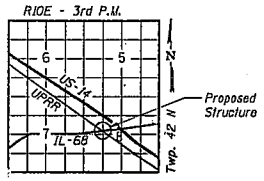
TOP OF RAIL ELEVATIONS UPRR



PROFILE GRADE LINE
IL Route 68



OFFSET SKETCH



LOCATION SKETCH

APPROVED

JUN 27 2006

AS A BASIS FOR PREPARATION OF DETAILED PLANS

SHT. 1 OF 2

REVISIONS	
NAME	DATE

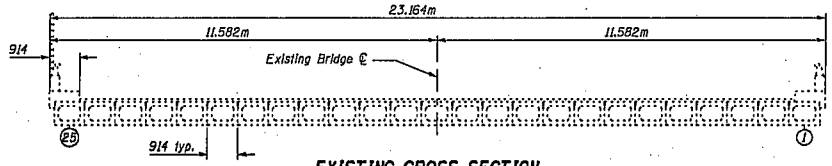
ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN
IL ROUTE 68 OVER UPRR
F.A.P. ROUTE 343 SECTION 2004-132B
COOK COUNTY STATION 9+900.324
STRUCTURE NO. 016-2732

DATE: 6/06 DESIGNED: BTO CHECKED: JAN DRAWN: BTO CHECKED: JAN

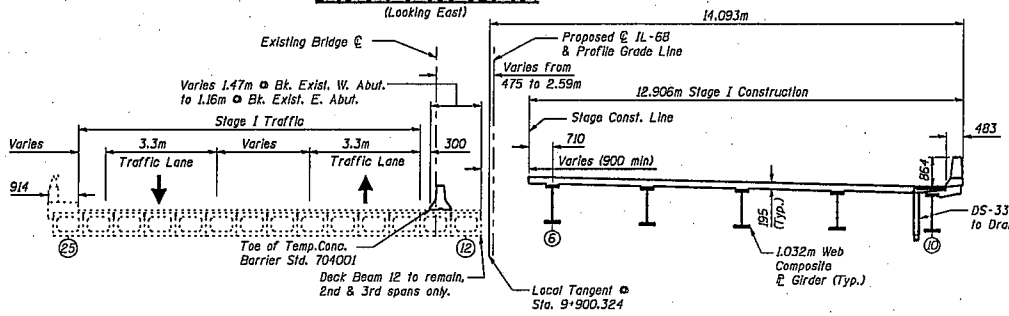
...\SN 016-2732 TS&L SHT 1-FINAL.d 06/22/2006 09:26:23 AM

CONTRACT NO. 62897

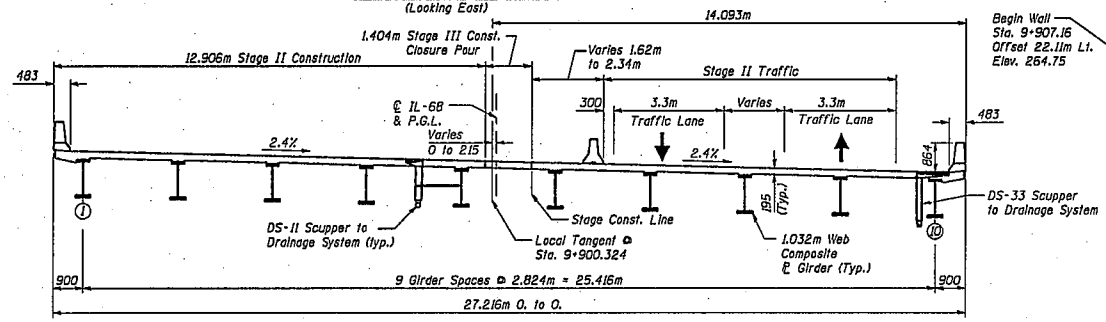
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	2004-132B	COOK	170	98
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXISTING CROSS SECTION
(Looking East)

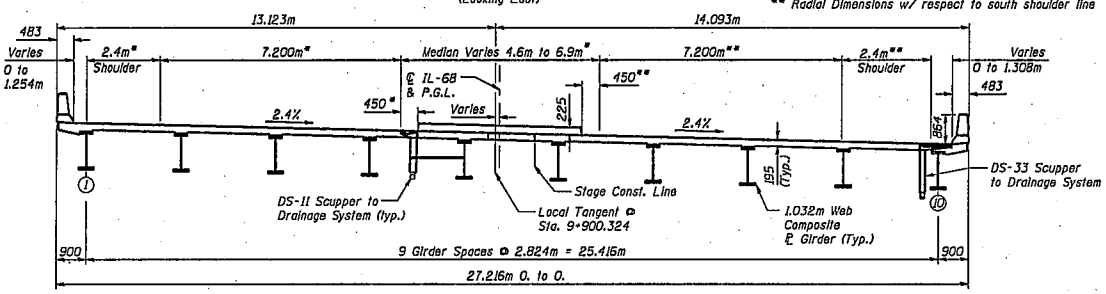


STAGE I CONSTRUCTION
(Looking East)

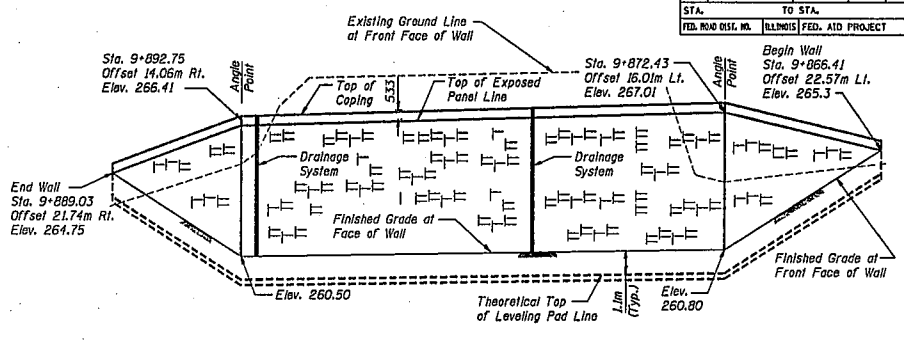


STAGE II & III CONSTRUCTION
(Looking East)

* Radial Dimensions w/ respect to north shoulder line
** Radial Dimensions w/ respect to south shoulder line

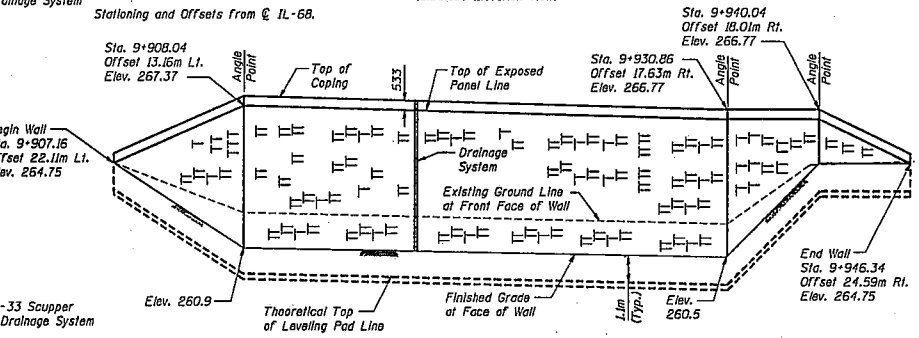


TYPICAL SECTION THRU BRIDGE DECK
(Looking East)
(Horizontal Dimensions @ Rt. L's to Local Tangent unless noted otherwise.)

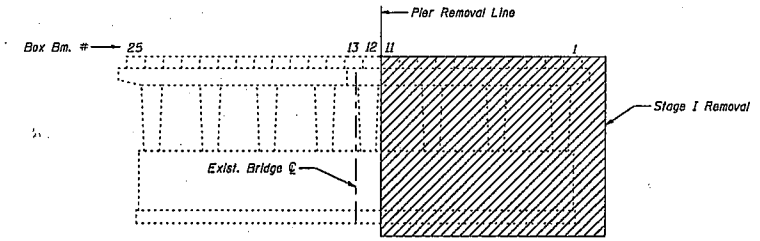


WEST ABUTMENT WALL
(Unfolded Elevation View)

Stationing and Offsets from ℄ IL-68.



EAST ABUTMENT WALL
(Unfolded Elevation View)



EXISTING PIER STAGE REMOVAL
(Looking East)

SHT. 2 OF 2

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS
IL ROUTE 68 OVER UPRR
F.A. ROUTE 343 SECTION 2004-132B
COOK COUNTY STATION 9+900.324
STRUCTURE NO. 016-2732

DATE: 6/06 DESIGNED: BTO CHECKED: JAN DRAWN: BTO CHECKED: JAN