F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	•	COOK	24	3
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

•70HB-F & 70D-Y-B-F CONTRACT NO. 60B70

BENCH MARK

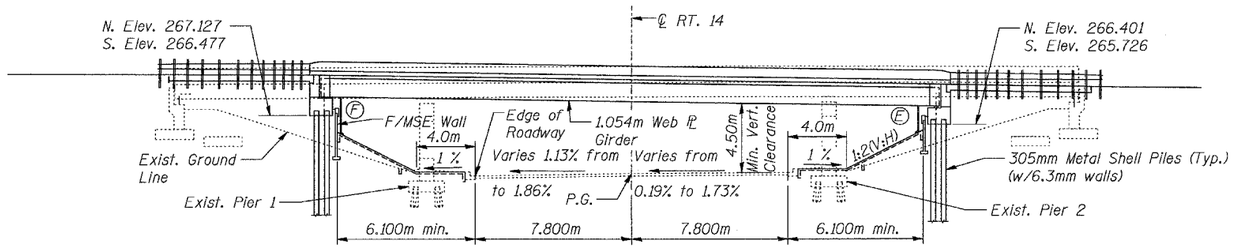
Chiseled '□' SE corner of East abutment of IL-68 bridge over US 14
Elev. 269.205

EXISTING STRUCTURE

S.N. 016-2410 was built in 1974. The bearings were cleaned and painted in 1992. The three span structure rests on concrete spread footings at the abutments and treated timber piles at the concrete multi-column piers. The composite reinforced concrete deck is supported by 920mm deep continuous steel beams. The back to back abutment length is 62.76m and the deck is 23.16m out to out.

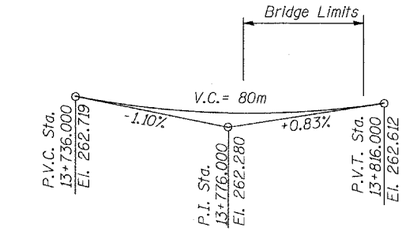
During construction of the new structure, staged construction will be utilized to maintain one lane of traffic in each direction.

No salvage.



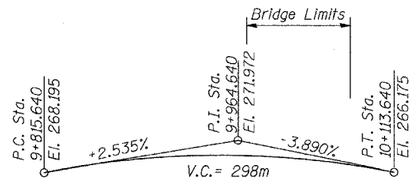
ELEVATION

Dim. @ Rt. Angles



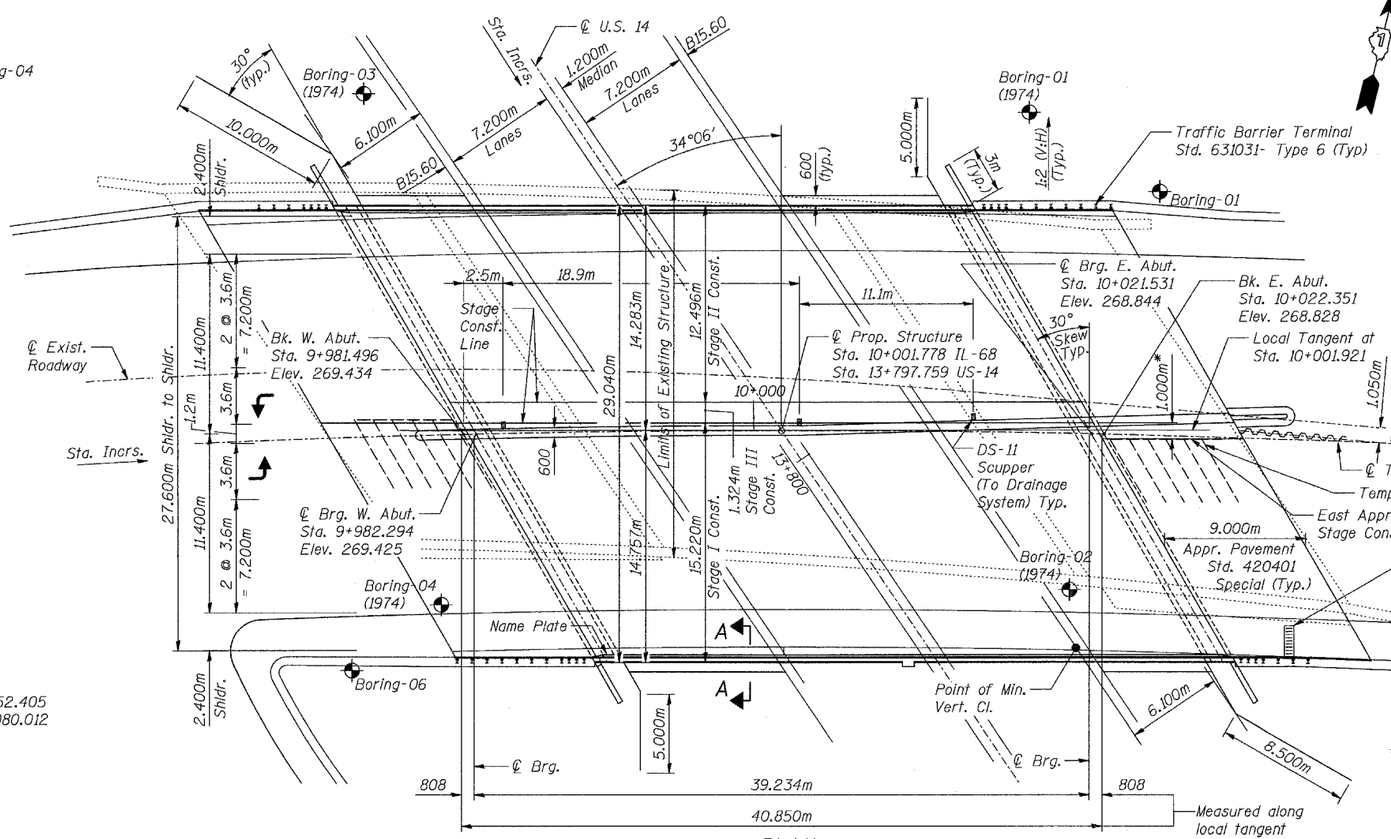
PROFILE GRADE LINE

US Route 14



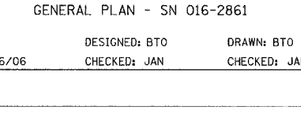
PROFILE GRADE LINE

IL Route 68



PLAN

* Offset East Approach Stage Const. Line to avoid interference with existing beams.



LOCATION SKETCH

STATION 10+001.778
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RT. 343 SEC 2004-132B
COOK COUNTY
LOADING HS20
STR. NO. 016-2861

NAME PLATE

See Std. 515001

HORIZONTAL CURVE DATA

Curve 68-1

PI Sta. = 9+966.854
Δ = 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

LOADING HS20-44

Allow 2.4 kN/m² future wearing surface

DESIGN SPECIFICATION

2002 AASHTO Std. Spec. 17th edition

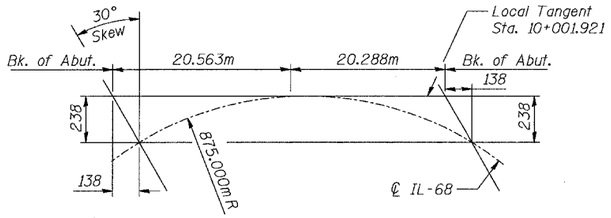
DESIGN STRESSES

NEW CONSTRUCTION

f'c = 24 MPa (concrete)
fy = 400 MPa (reinforcement)
fy = 345 MPa
(AASHTO M 270M, Gr. 345 struc. steel)

SEISMIC DATA

Seismic Performance Category (SPC)= A
Bedrock Acceleration Coefficient (A)= 0.04g
Site Coefficient (S) = 1.0



OFFSET SKETCH

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
JOHN A. NEU
81-004960
OAK PARK
LICENSED STRUCTURAL ENGINEER

LICENSE EXPIRES
11/30/06

NOTES:

1. All dimensions in millimeters (mm) except as noted.
2. For section A-A, see Sht. S-04 of S-24.

SHT. S-03 OF S-24

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 68 OVER US-14 & UPRR
F.A.P. ROUTE 343 SECTION 70HB-F & 70D-Y-B-F
COOK COUNTY
STRUCTURE NO. 016-2861 & 016-2732

GENERAL PLAN - SN 016-2861

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

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