

Bench Mark: B.M. #497 - Chiseled square on top of wingwall
Sta. 1507+88, 36' Rt. of IL-92, Elev. 595.14

Existing Structure: S.N. 081-0064, Built as F.A. Route 199, Sec. 1-VB in 1963.
Three span, 228'-10" back to back of abutments, 78'-0" out to out. Superstructure consists of a curved R.C. deck on WF beams (kinked to accommodate the curve) supported on multi-column piers and spill-through abutments. Deck to be removed and replaced. Traffic to be maintained during the rehabilitation by staged construction.

No Salvage

Traffic Barrier Terminal
Std. 631031 - Type 6 (NB)
Std. 631026 - Type 5 (SB)

Traffic Barrier Terminal
Std. 631031 - Type 6 (SB)
Std. 631026 - Type 5 (NB)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | | |
|-----------------------|----------|-------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| F.A.P. 308 | * | ROCK ISLAND | 210 | 116 |
| FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT* | | |

SHEET NO. 1
32 SHEETS

Contract #64814 * (IHB, HB-1, VB, HB-2)R

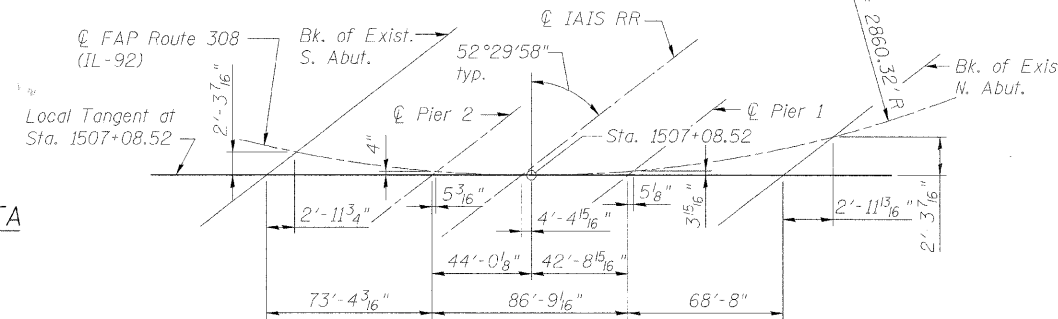
SCOPE OF WORK

1. Remove and replace existing deck utilizing staged construction.
2. Remove existing rocker bearings at abutments and replace with elastomeric bearings and steel extensions.
3. Install stud shear connectors in positive moment areas of existing beam lines.
4. Remove existing 1'-0" wide abutment backwalls and replace with 1'-6" wide backwalls.
5. Modify existing abutment ends and wingwalls to accommodate wider bridge deck and approach pavement.
6. Remove existing concrete slopewall and replace with Bituminous Coated Aggregate Slopewall 6".
7. Remove and replace deteriorated steel diaphragms and connection plates.
8. Install new steel diaphragms in center beam bay.
9. Perform concrete repairs at abutments and piers.
10. Clean and paint existing Structural Steel.

HORIZ. CURVE DATA

Exist. IL Route 92
 $\Delta = 42^{\circ}40'47''$ (LT)
 $D = 2^{\circ}00'11''$
 $T = 1,117.49'$
 $L = 2,130.66'$
 $E = 210.54'$
 $R = 2,860.32'$
 $S.E. = 2.00\%$
 $P.C. STA. = 1498+91.16$
 $P.T. STA. = 1520+21.82$
 $P.I. STA. = 1510+08.65$

OFFSET SKETCH

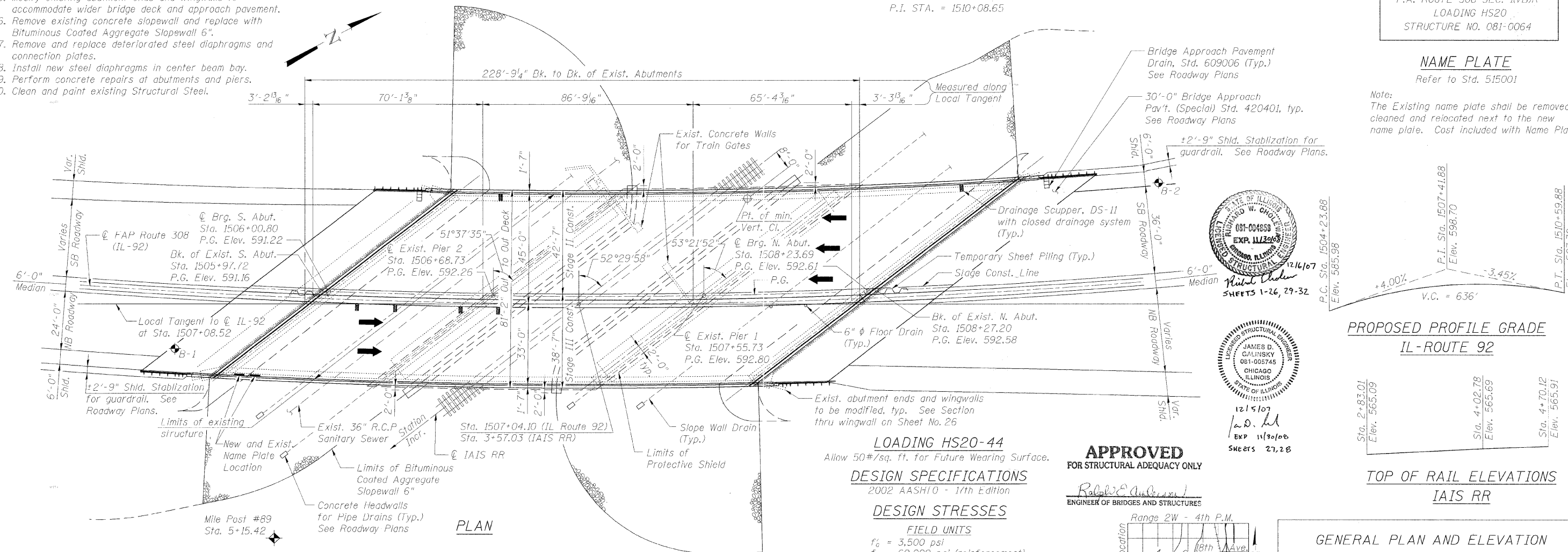


STATION 1507+04.10
RE-BUILT 20__ BY
STATE OF ILLINOIS
F.A. ROUTE 308 SEC. 1(VB)R
LOADING HS20
STRUCTURE NO. 081-0064

NAME PLATE

Refer to Std. 515001

Note:
The Existing name plate shall be removed, cleaned and relocated next to the new name plate. Cost included with Name Plate.



| | |
|----------|-----|
| DESIGNED | AMK |
| CHECKED | CMM |
| DRAWN | AMK |
| CHECKED | RWC |

LOCHNER
H.W. LOCHNER, INC., CHICAGO, ILLINOIS

LEGEND

- ◆ Indicates Soil Boring Location
- ◆ Indicates Railroad Mile Post Marker

NOTES

1. For General Notes, Bill of Material, Index of Sheets and slopewall details, see Sheet No. 2
2. For temporary sheet piling details see Sheet No. 3

LOADING HS20-44

Allow 50#/sq. ft. for Future Wearing Surface.

DESIGN SPECIFICATIONS

2002 AASHTO - 11th Edition

DESIGN STRESSES

FIELD UNITS

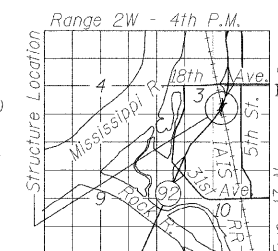
- $f_c = 3,500$ psi
 - $f_y = 60,000$ psi (reinforcement)
 - $f_y = 36,000$ psi (Struct. Steel) (M270 Grade 36)
- EXISTING CONSTRUCTION
- $f_c = 1,400$ psi (Concrete)
 - $f_s = 20,000$ psi (Reinforcement)
 - $f_s = 20,000$ psi (Struct. Steel)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.034g
Site Coefficient (S) = 1.0

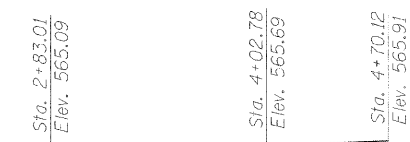
APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Robert E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



LOCATION SKETCH

PROPOSED PROFILE GRADE
IL-ROUTE 92



TOP OF RAIL ELEVATIONS
IAIS RR

GENERAL PLAN AND ELEVATION
IL ROUTE 92 (CENTENNIAL EXPRESSWAY)
OVER IAIS RAILROAD
FAP ROUTE 308 SEC. 1(VB)R
ROCK ISLAND COUNTY
STATION 1507+04.10
STRUCTURE NO. 081-0064