

Bench Mark: Standard tablet on top of the East end of the Northwest concrete wingwall of the Westbound Harrison Ave. bridge. NAVD88 Elevation 801.03.

Existing Structure: S.N. 101-0097 consists of a continuous three-span and four span structure with a common center abutment and was built in 1955. The existing structure is about 387 feet long and 36 feet wide. The superstructure consists of six composite wide flange (27 inch deep) beams with cover plates over the piers, which support a 7-inch thick reinforced concrete deck with a bituminous overlay. The substructure consists of pile bent abutments and reinforced concrete multi-column piers founded on spread footings. The existing structure shall be removed to at least 1 ft below the proposed elevation of subgrade or ground surface, within the area of construction. All portions of existing structures below this elevation interfere in any way with the new construction, shall be removed. Westbound Harrison Avenue will be closed and traffic will be detoured on to Eastbound Harrison Avenue during construction.

Salage: None

Notes:
Drains and Inlets shall be located clear of all diaphragms.

ROUTE NO.	SECTION	COUNTY	STATION	SHEET NO.
FAP 0525		WINNEBAGO	157	108
PROJECT NO. 02-00518-00-BR				

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges.
1999 AASHTO Guide for the development of Bicycle Facilities.

LOADING HS20-44

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

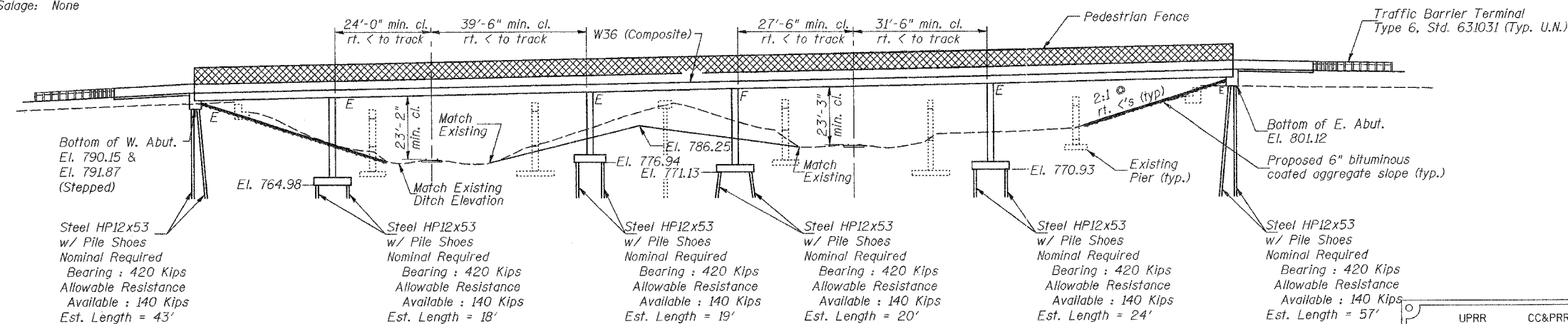
DESIGN STRESSES

FIELD UNITS

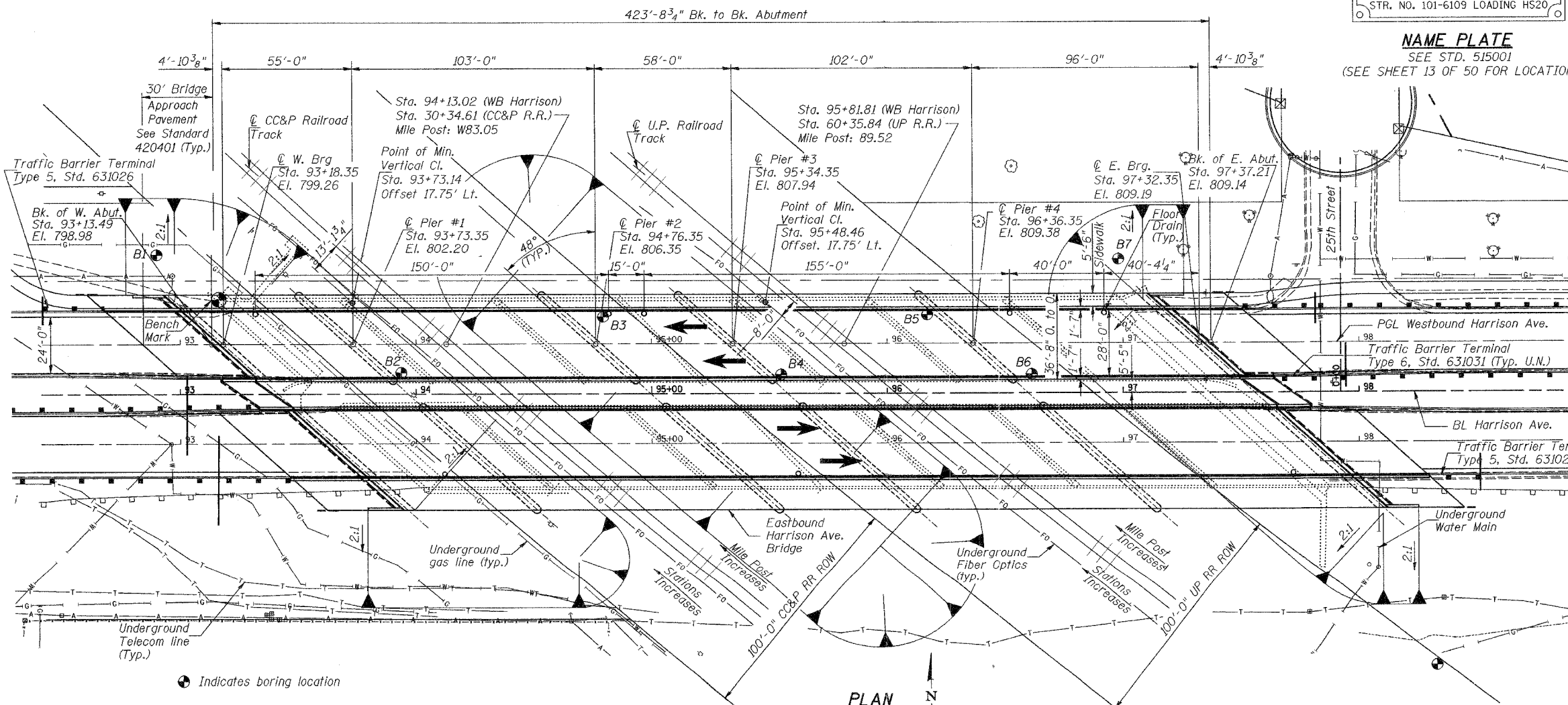
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 36,000$ psi (structural steel)
AASHTO M270 Gr. 36
 $f_y = 50,000$ psi (structural steel)
AASHTO M270 Gr. 50

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.03g
Site Coefficient (S) = 1.0



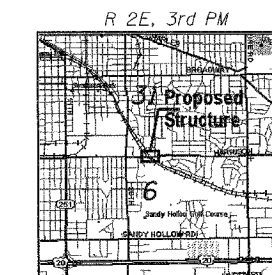
ELEVATION
(Westbound Bridge - Looking North)



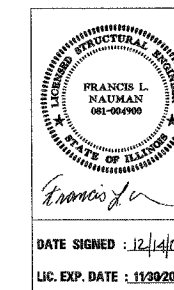
PLAN

UPRR CC&PRR
BUILT _____ BY
CITY OF ROCKFORD
SEC. 02-00518-00-BR
F.A.P. RT. 0525 STA. 95+25.35
STR. NO. 101-6109 LOADING HS20

NAME PLATE
SEE STD. 515001
(SEE SHEET 13 OF 50 FOR LOCATION)



LOCATION SKETCH



"I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current 'AASHTO Standard Specifications for Highway Bridges.'"

Corporate License Number 184-001-084

GENERAL PLAN & ELEVATION

**WESTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+25.35
STRUCTURE NO. 101-6109**

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JOB NO.
03R1751
DATE
12/14/06

LAYOUT: FILM 08/29/06
 DRAWN: MCM 08/20/06
 CHECKED: LHM 08/24/06
 10836 PI
 1204 005 0498 PI
 1A03 005 0497 51 Struct Show West Bound S 00 WB GFAE.gm