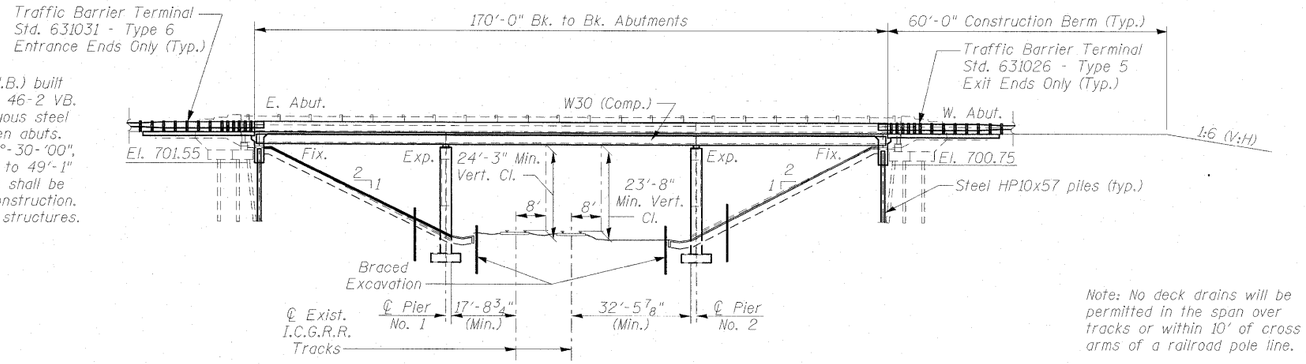
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BENCH MARK

B.M. # 220: Set chiseled "□" @ E end of Bridge Wall S side of NB I-57 Bridge over RR.
El. = 710.166

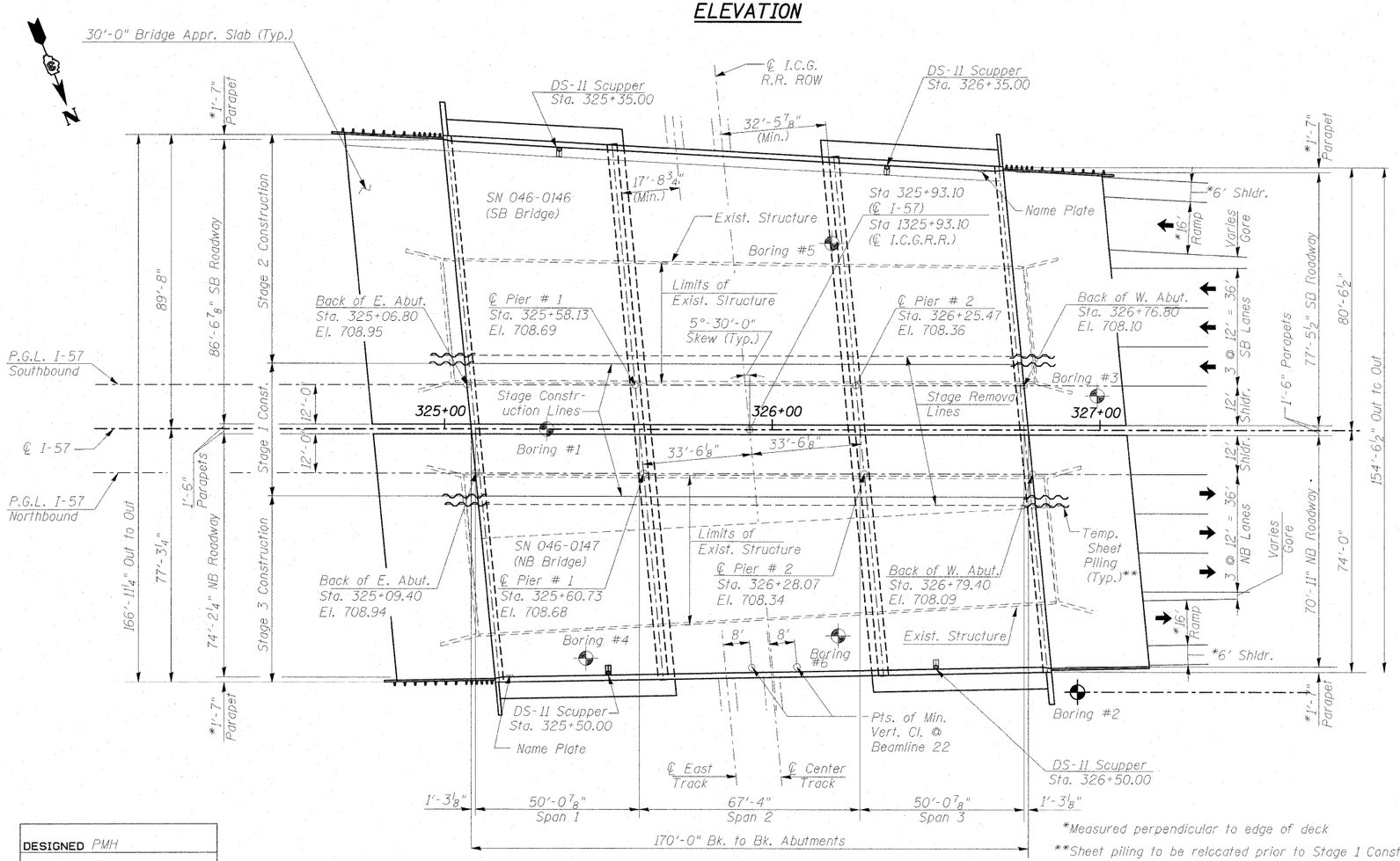
EXISTING STRUCTURES

SN 046-0016 (S.B.) & SN 046-0017 (N.B.) built in 1963 as F.A.I. Rte. 57 (I-57), Sec. 46-2 VB. Existing structures are 3-span continuous steel girder bridges with R.C. decks and open abuts. Both existing structures are skewed 5°-30'-00", 179'-0" long, and vary in width 35'-8" to 49'-1" Two lanes of traffic in both directions shall be maintained during rehab using stage construction. No salvage materials from the existing structures.



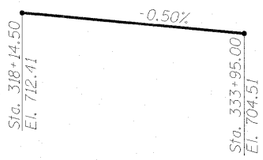
ELEVATION

Note: No deck drains will be permitted in the span over tracks or within 10' of cross arms of a railroad pole line.

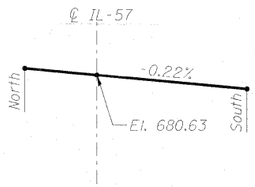


*Measured perpendicular to edge of deck
**Sheet piling to be relocated prior to Stage 1 Construction

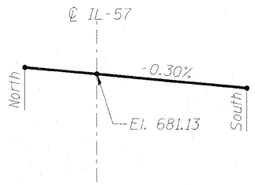
PLAN
Milepost #55



PROFILE GRADE
(Along Median Edge of IL-57)



PROFILE GRADE
(Along ℄ East I.C.G.R.R. Track)



PROFILE GRADE
(Along ℄ Center I.C.G.R.R. Track)

DESIGN SPECIFICATIONS

AASHTO Standard Specifications for Highway Bridges, 17th Edition 2002

LOADING HS20-44 & ALT.

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

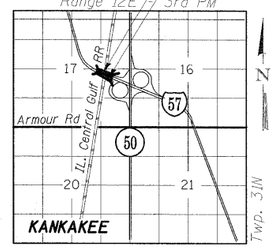
DESIGN STRESSES

f'c = 3,500 psi
fy = 60,000 psi (reinforcement)
fy = 36,000 psi (M270 Gr36)
fy = 50,000 psi (M270 Gr50)

SEISMIC DATA

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

Prop. SN 046-0146 (SB)
Prop. SN 046-0147 (NB)



LOCATION SKETCH

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
ENGINEER OF BRIDGES AND STRUCTURES

GENERAL PLAN AND ELEVATION
I-57 OVER I.C.G. RAILROAD
F.A.I. RT. 57 - SEC. (46-2) VBR
KANKAKEE COUNTY
STATION 325+93.10
STRUCTURE NO. 046-0146 (S.B.)
& STRUCTURE NO. 046-0147 (N.B.)

DESIGNED	PMH
CHECKED	BB
DRAWN	AMV
CHECKED	BB

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SR-1	57	(46-2) VBR	KANKAKEE	558	328
SHEETS			CONTRACT NO. 66409		
SR-48	FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT		