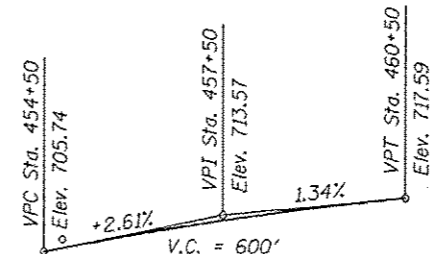


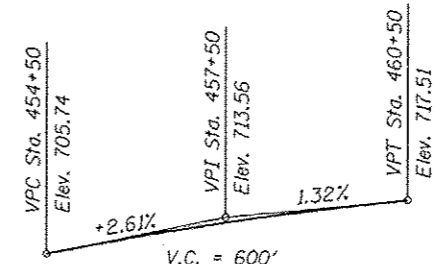
B.M.: TEA-6 chiseled Set on southwest approach wall of south bound lanes of S.N. 054-0066 at Sta. 456+47, 78' left, Elev. 711.07.

Existing Structure: S.N. 054-0065 (N.B.) and 054-0066 (S.B.) built in 1976 as FAI Route 55, Section 54-6HB, Sta. 457+00. The superstructure consists of reinforced concrete deck supported by steel wide flange beams continuous over three spans. Spans 1 & 3 are non-composite and Span 2 is composite. The substructure consists of open stub abutments supported by concrete piles and concrete frame piers supported on cross-tied timber piles. Superstructure length is 121'-6" (N.B.) & 118'-3" (S.B.) back to back of abutments and 42'-0" out to out of deck with a 5°05'25" skew (L.F.). Existing deck to be removed and replaced. Traffic to be maintained using crossovers.

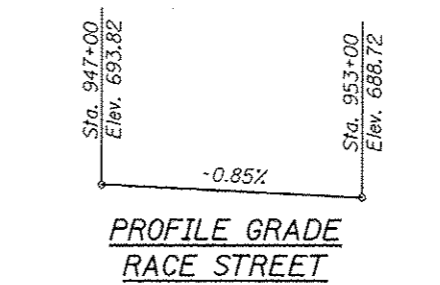
No Salvage.



PROFILE GRADE - I-55 N.B.**
S.N. 054-0065 (N.B.)
along median edge of pavement



PROFILE GRADE - I-55 S.B.**
S.N. 054-0066 (S.B.)
along median edge of pavement



CURVE DATA RACE STREET **CURVE DATA MEDIAN F.A.I. 55**

$\Delta = 29^\circ 58' 18''$	$\Delta = 35^\circ 48' 03''$
$D = 3^\circ - 30'$	$D = 1^\circ - 30'$
$T = 435.20'$	$T = 1233.83'$
$L = 856.33'$	$L = 2386.85'$
$E = 57.63'$	$E = 194.32'$
$R = 1637.02'$	$R = 3819.92'$
S.E. = 4.3%	S.E. = 4.2%
P.C. = Sta. 946+12.30	P.C. = Sta. 453+88.01
P.T. = Sta. 954+68.63	P.T. = Sta. 477+74.85
P.I. = Sta. 950+47.50	P.I. = Sta. 466+21.84
SET = Sta. 945+26 to Sta. 946+51 & Sta. 954+24.05 to Sta. 955+49.05	SET = Sta. 452+51 to Sta. 454+51 & Sta. 477+05 to Sta. 479+05

SEISMIC DATA
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient(A) = 0.046 g
Site Coefficient (S) = 1

LOADING HS20-44 & ALT
Allow 50 lbs/sq ft for future wearing surface.

DESIGN SPECIFICATIONS
2002 AASHTO Bridge Design Specifications
1995 FHWA Seismic Retrofit manual

DESIGN STRESSES

NEW CONSTRUCTION
FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (Steel)

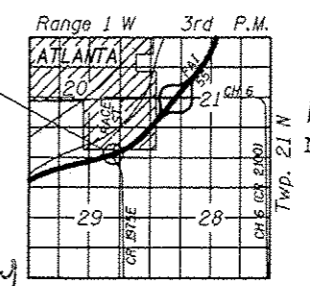
EXISTING CONSTRUCTION
FIELD UNITS
 $f'_c = 1,400$ psi
 $f_s = 20,000$ psi (Reinforcement)
 $f_s = 20,000$ psi (Steel)
 $f_y = 36,000$ psi (Steel)

SCOPE OF WORK

Remove and replace bridge deck
Make new deck composite in all spans
Remove and replace approach pavements
Remove and replace bearings at abutments
Remove abutment back wall and wingwalls and make abutments semi-integral
Repair slopewall, abutment caps and piers as necessary
Diamond grind bridge decks and approach slabs 1/4" min.

APPROVED
For Structural Adequacy Only
P. Carl Puryear, P.E.
Engineer of Bridges & Structures

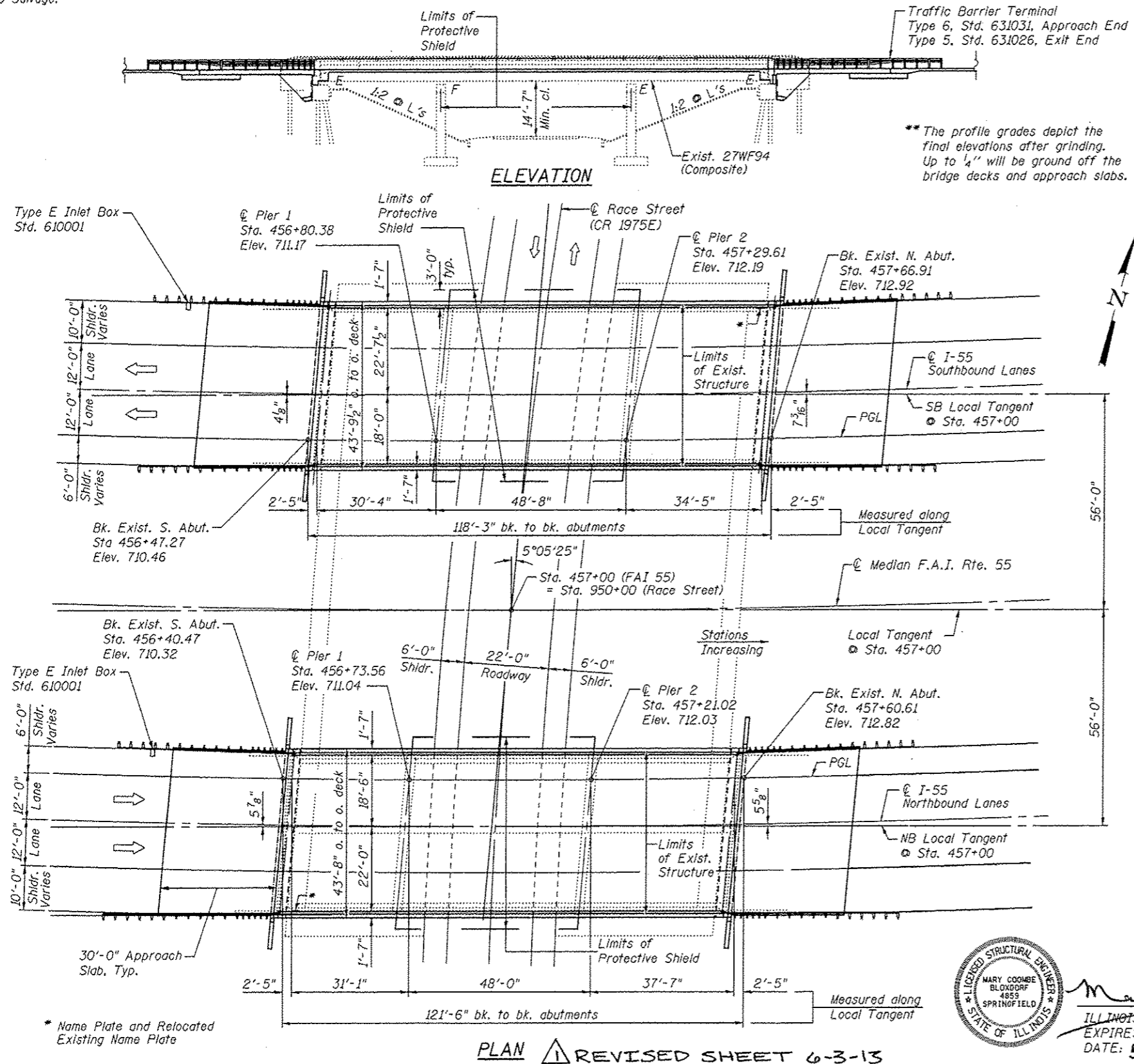
GENERAL PLAN
F.A.I. ROUTE 55 OVER RACE ST.
SECTION D6 LOGAN CO BR 2011-1
LOGAN COUNTY
STATION 457+00.00
STRUCTURE NO. 054-0065 (N.B.)
STRUCTURE NO. 054-0066 (S.B.)



LOCATION SKETCH



Mary Coombe Bloxdorf
ILLINOIS STRUCTURAL NO. 4659
EXPIRES 11/30/14
DATE: 5/13/13



FILE NAME ... \0540065-0066-72-11-001-gpe.dgn	USER NAME _MML_	DESIGNED GJB	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SHEET NO. 1 OF 39 SHEETS
PLOT SCALE 3218.000000 1" = 100'	CHECKED MCB/RKM	REVISIONS -			
PLOT DATE 5/18/2013	DRAWN MML	REVISIONS -			
	CHECKED MCB/GJB	REVISIONS -			

CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	D6 LOGAN CO BR 2011-1	LOGAN	429	324

CONTRACT NO. 72E11
ILLINOIS FED. AID PROJECT