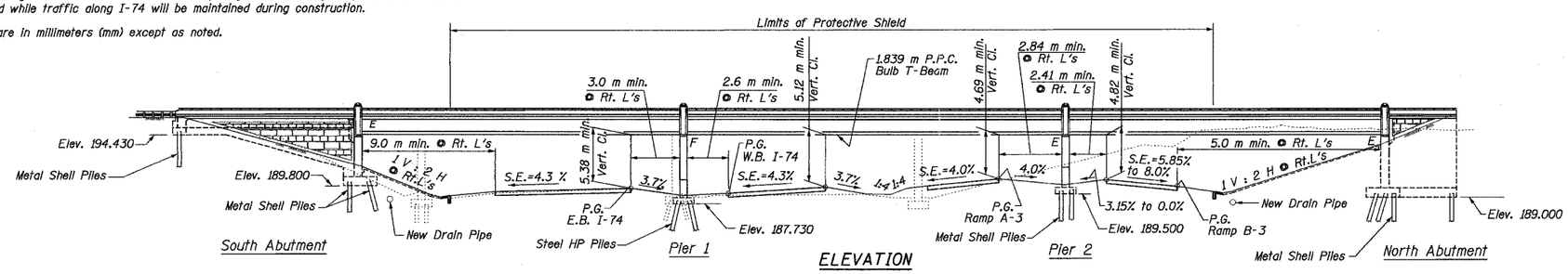
ROUTE NO.	SECT.	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.I. 74	(72-7) R-3	PEORIA	944	1360
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 68200

B. M. TP 1316 : PK Nail on South Side of FA 49 (U.S. 150 Spur) Bridge over I-74 West of I-74 on ramp. Elev.194.293m

Existing Structure : S.N. 072-0027 is a four span bridge built as F.A.I. RT. 74, SEC. (72-7HB-1) in 1963.
The Superstructure consists of a R.C. Deck 86.71 m long by 14 m wide supported on wide flange steel stringers.
The existing Structure shall be removed completely. Traffic along ramps B-1, B-4 and B-6 will be detoured while traffic along I-74 will be maintained during construction.

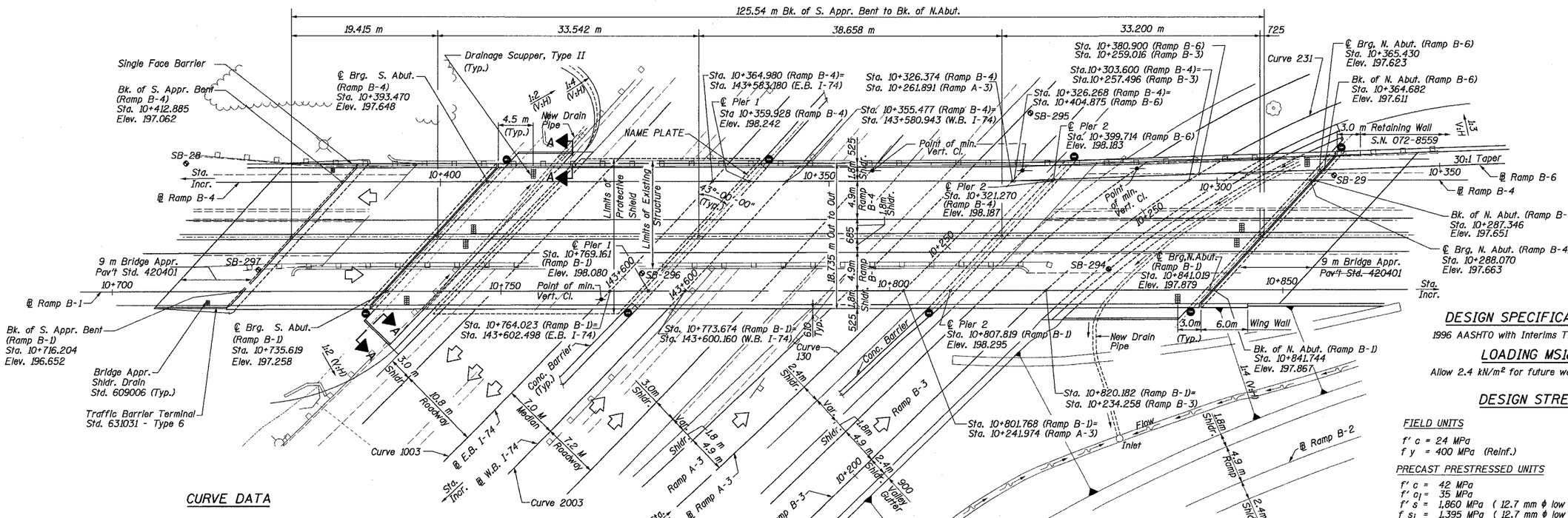
Note : All dimensions are in millimeters (mm) except as noted.



ELEVATION

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.043g
Site Coefficient (S) = 1.0



PLAN

Scale 1 : 250

DESIGN SPECIFICATIONS

1996 AASHTO with Interims Through 2000.

LOADING MS18

Allow 2.4 kN/m² for future wearing surface.

DESIGN STRESSES

FIELD UNITS

f' c = 24 MPa
f y = 400 MPa (Reinf.)

PRECAST PRESTRESSED UNITS

f' c = 42 MPa
f' ci = 35 MPa
f' s = 1,860 MPa (12.7 mm ϕ low lax. strands)
f si = 1,395 MPa (12.7 mm ϕ low lax. strands)

CURVE DATA

	E.B. I-74 Curve 1003	W.B. I-74 Curve 2003	RAMP A-3 Curve 130	RAMP B-3 Curve 231
△ =	100° 30' 47"	100° 30' 47"	15° 21' 33"	47° 56' 01"
R =	1165.0 m	1172.0 m	1182.822 m	125.0 m
T =	1401.087 m	1409.506 m	159.496 m	55.567 m
L =	2043.743 m	2056.022 m	317.079 m	104.575 m
E =	657.161 m	661.110 m	10.705 m	11.794 m
PC =	142+877.830	142+877.801	10+000.000	10+231.559
PI =	144+278.917	144+287.307	10+159.496	10+287.126
PT =	144+921.573	144+933.823	10+317.079	10+336.134
SE =	+4.3 %	+4.3 %	-4.0 %	8.0 %

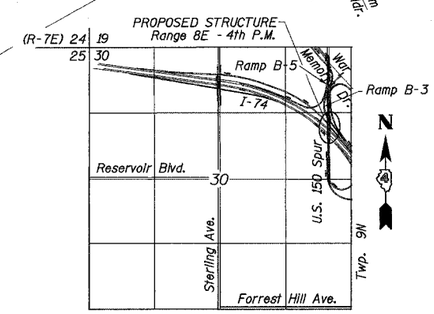
Transition in 10+196 to 10+249
Transition out 10+319 to 10+372

STATION 10+779.03
BUILT 200_ BY
STATE OF ILLINOIS
F.A.I. ROUTE 74 SECTION (72-7) R-3
LOADING MS-18 & ALT.
STR. NO. 072-0183

NAME PLATE

See Std. 515001

STATE OF ILLINOIS
ROBERT KOTSIRAS
081-006123
CHICAGO
LICENSED STRUCTURAL ENGINEER



LOCATION SKETCH

REVISION	DATE	DESCRIPTION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

RAMPS B-1 AND B-4 OVER F.A.I. ROUTE 74 (I-74)
RAMPS A-3 AND B-3
F.A.I. ROUTE 74 SECTION (72-7) R-3 PEORIA COUNTY
STATION 10+779.03 STRUCTURE NUMBER 072-0183

PARSONS TRANSPORTATION GROUP
CHICAGO, ILLINOIS

DRAWING NO.	SCALE	DATE	SHEET NO.
1	N.T.S.	2-18-03	1

Designed by:	DL
Checked by:	AK
Drafted by:	JMG
Checked by:	AK

Filename: P:\643996\structural\072-0183\Sheet1\Tracings\GP0001-IA07D183.dgn
Date: 11/22/2004 Time: 10:22:44 AM