B.M.: #23 Square "□" cut in center of crash wall of center pier with Elev. 285.56.

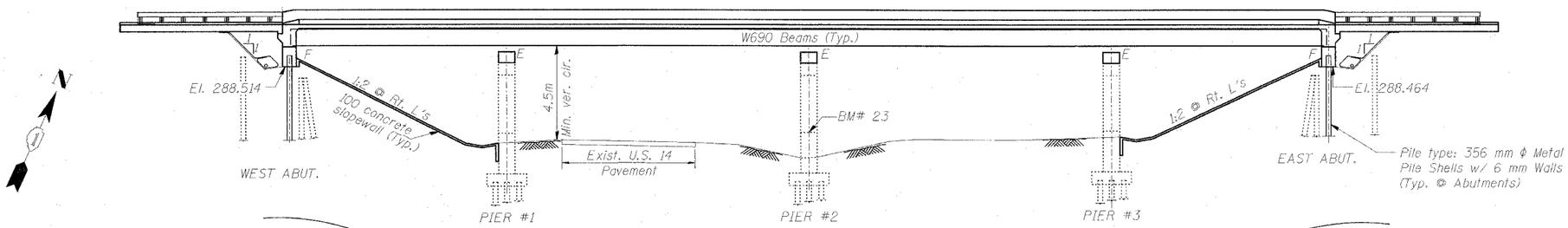
Existing Structure: Built in 1958, S.N. 056-3015 consists of 4 continuous concrete T-Beam spans with three reinforced concrete piers and two pile bent abutments. Structure is 57.15m (bk. to bk. abut.) long & 10.262m (out to out) wide

Staging Note : Two way traffic shall be maintained on one lane utilizing temporary traffic signals during staged construction.
No salvage
Note: All dimensions are in millimeters (mm) except as noted.

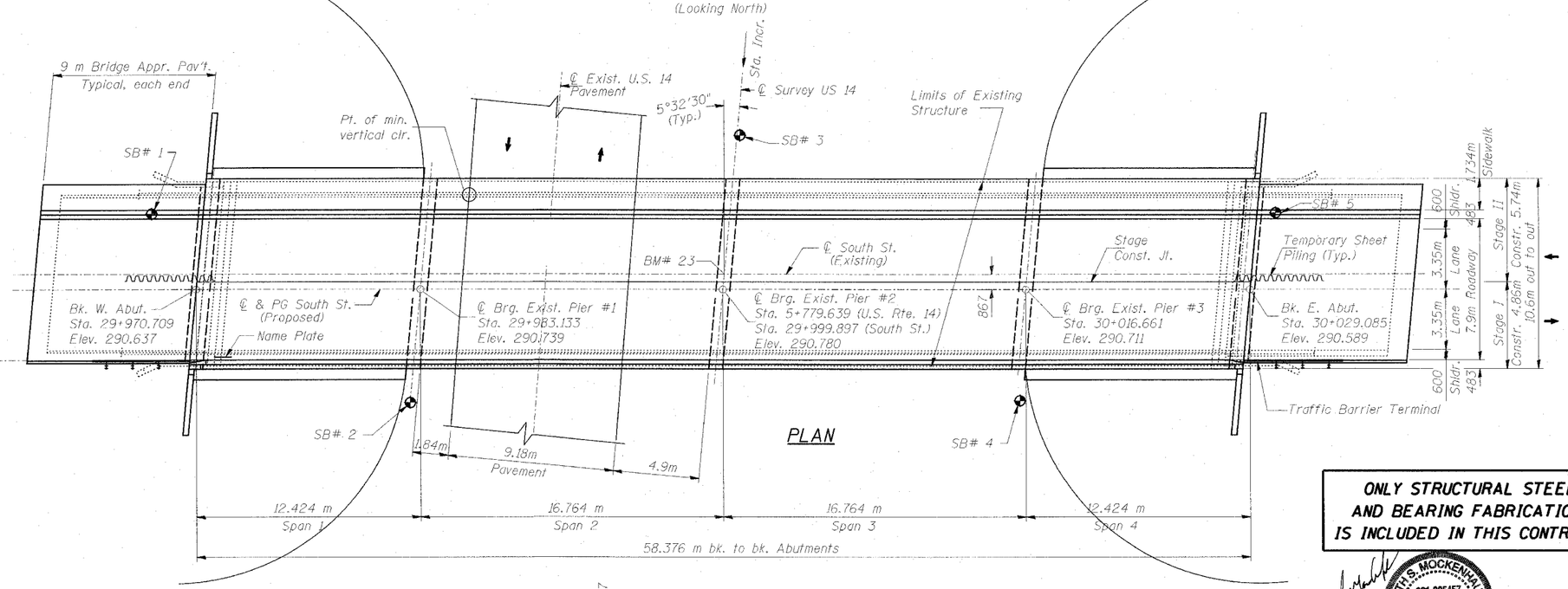
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. Rt. 305	28 R-HB-F	McHenry	13	3
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

62856



ELEVATION
(Looking North)



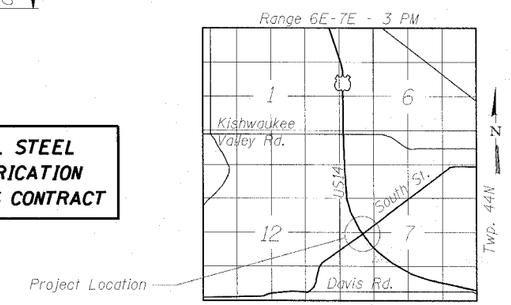
PLAN

LETTERING FOR NAME PLATE
(See Std. 515001)

STATION 29+999.897
REBUILT 20__ BY
STATE OF ILLNOIS
F.A.P. RT. 305 SEC. 28R-2-RS-1
LOADING MS18
STR. NO. 056-3015

Existing name plate shall be cleaned and relocated adjacent to new plate. Cost included with Name Plates.

ONLY STRUCTURAL STEEL AND BEARING FABRICATION IS INCLUDED IN THIS CONTRACT



LOCATION SKETCH

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

09/17/04
11/30/04

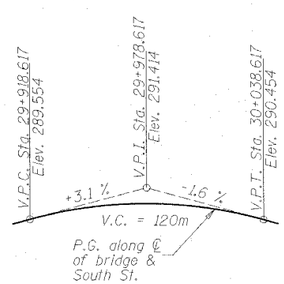
KEITH S. MOCKENHAUPT 081-005457 LICENSED STRUCTURAL ENGINEER STATE OF ILLINOIS

LOADING MS18
Allow 2.4 kN/m² for future wearing surface.

DESIGN SPECIFICATIONS
1996 AASHTO & 1997, 1998, 1999, 2000 & 2002 Interims

SEISMIC DATA
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.035g
Site Coefficient (S) = 1.0

DESIGN STRESSES
FIELD UNITS
f'_c = 24 MPa
f_y = 400 MPa (reinforcement)
f_y = 345 MPa, M270M (structural steel)
EXISTING
f_c = 10 MPa (without earth pressure)
f_c = 7 MPa (with earth pressure)
f_y = 275 MPa (reinforcement)



PROFILE GRADE SOUTH STREET

-0.28%

Sta. 5+725	Sta. 5+750	Sta. 5+773.94	Sta. 5+786.35	Sta. 5+800	Sta. 5+825
Elev. 285.368	Elev. 285.298	Elev. 285.242	Elev. 285.214	Elev. 285.159	Elev. 285.092

PROFILE GRADE US14
Along West Edge of Pavement

CURVE DATA US-14
P.I. STA. = 6+095.174
Δ = 76° 28' 10" LT.
T = 1,086.257 m
R = 1,378.668 m
L = 1,840.029 m
E = 376.518 m
P.C. STA. = 5+008.917
P.T. STA. = 6+848.946

GENERAL PLAN & ELEVATION

Date	Designed MR	SOUTH ST. OVER US 14 FAP ROUTE NO. 305 SECTION 28 R-HB-F STATION 29+999.897 COUNTY McHENRY STRUCTURE NO. 056-3015	Sheet No. 3 of 13
Revisions	Drawn R.VEJAR		
	Checked KSM		
	Approved KSM		

HOH HARRY O. HEITER ASSOCIATES, INC. DESIGN AND CONSULTING ENGINEERS 180 North Wabash Ave. Chicago, Illinois 60601 312/345-8131

File Name: Job No. 1962

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