B.M. #115: Railroad Spike in Power Pole at Northwest Quadrant of Shabbona St. and Broadway St.
Elevation Taken From Streator BM's 3/1989, 23.41' Lt., Sta. 16+01.55, Elev. 628.51

B.M. #116: Railroad Spike in Power Pole at Northwest Quadrant of Iowa St. and Broadway St.
Elevation Taken From Streator BM's 3/1989, 39.84' Lt., Sta. 27+53.58, Elev. 627.48

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6145	*	LASALLE	168	122
FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT		

SHEET NO. 1
23 SHEETS

* 01-00590-00-BR (County)

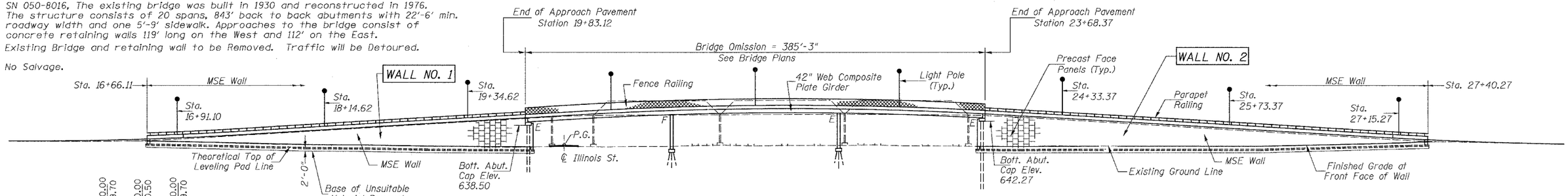
CONTRACT NO. 87293

EXISTING STRUCTURE:

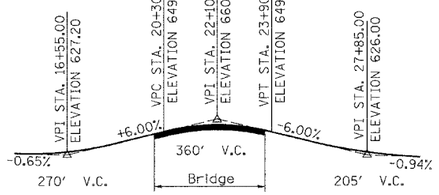
SN 050-8016, The existing bridge was built in 1930 and reconstructed in 1976. The structure consists of 20 spans, 843' back to back abutments with 22'-6' min. roadway width and one 5'-9' sidewalk. Approaches to the bridge consist of concrete retaining walls 119' long on the West and 112' on the East.

Existing Bridge and retaining wall to be Removed. Traffic will be Detoured.

No Salvage.



ELEVATION

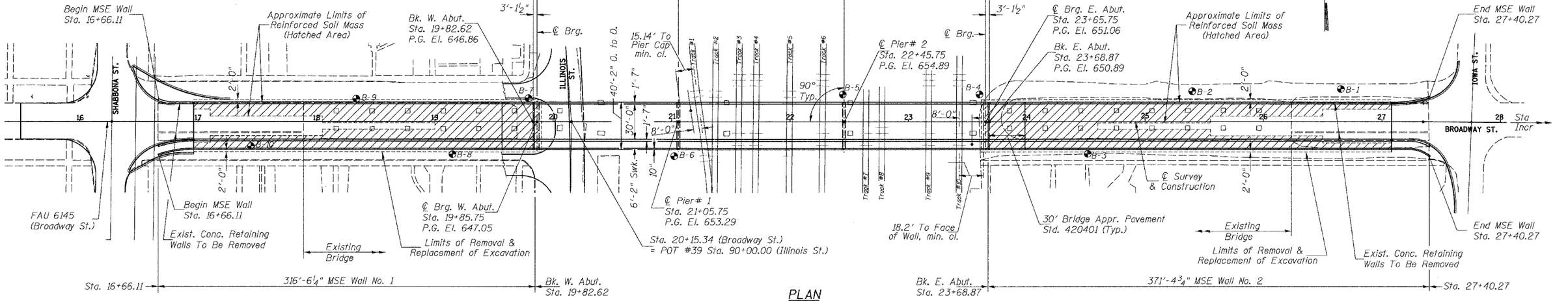


PROPOSED PROFILE GRADE
BROADWAY ST.

CURVE DATA
ILLINOIS ST.

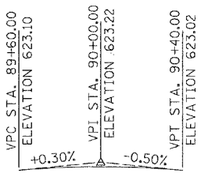
P.I. Sta. = 90+00.00
Δ = 4° 47' 31" (Lt)
D = 2° 53' 27"
R = 1,981.98'
T = 82.93'
L = 165.76'
E = 1.73'
P.C. Sta. = 89+17.07
P.T. Sta. = 90+82.83
S.E. = Normal Crown

For General Notes and Total Bill of Material, See Sheet No. 2 of 23



PLAN

Mile Post 89.41



PROPOSED PROFILE GRADE
ILLINOIS ST.

DESIGNED	JOH
CHECKED	BRT
DRAWN	TC & TD
CHECKED	JOH

DESIGN STRESSES
(FIELD UNITS)

f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (Reinforcement)
f'c = 4,500 p.s.i. (Precast Panels)

DESIGN SPECIFICATIONS

2002 AASHTO

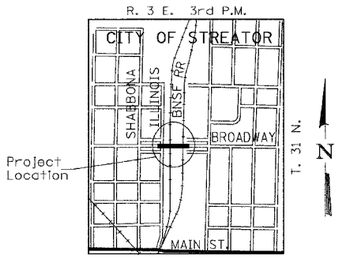
LOADING HS20-44

Allow 50#/sq. ft. future wearing surface.
Equivalent Fluid Lateral Soil Pressure = 40 pcf
Live Load Traffic Surcharge = 0.240 ksf

JAMES O. HAMILTON
081-003668
LICENSED STRUCTURAL ENGINEER
OF
JACKSONVILLE
ILLINOIS
James O. Hamilton
3/10/2006
License Expires 11/30/2006

I certify that to the best of my knowledge, information and belief, this retaining wall 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 Specification for Highway Bridges.
This design complies with all requirements of the current AASHTO Guide Specifications for Seismic Design of highway bridges.

James O. Hamilton
Illinois Structural No. 3668
Expires 11/30/2006



LOCATION SKETCH

GENERAL PLAN
MSE WALL NO. 1 & 2
FAU ROUTE 6145
SECTION 01-00590-00-BR (COUNTY)
LASALLE COUNTY
STATION 16+66.11 TO 27+40.27

HUTCHISON ENGINEERING, INC.
JACKSONVILLE & JOLIET, ILLINOIS
Date: 3 /10 /2006

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