ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 301 (U.S. 20)	2B	Jo Daviess		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SHEET NO. 1
3 SHEETS

BENCH MARK:
#547 ⊙ Elev. 612.967--Chiseled "□" on well at SE corner of Menominee & Sixth St.
Existing Structure: None
Roadway will be closed during construction.
Conduits are to be provided for future lighting.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURVE DATA

F.A.P. Route 301 (U.S. 20) W.B.L.

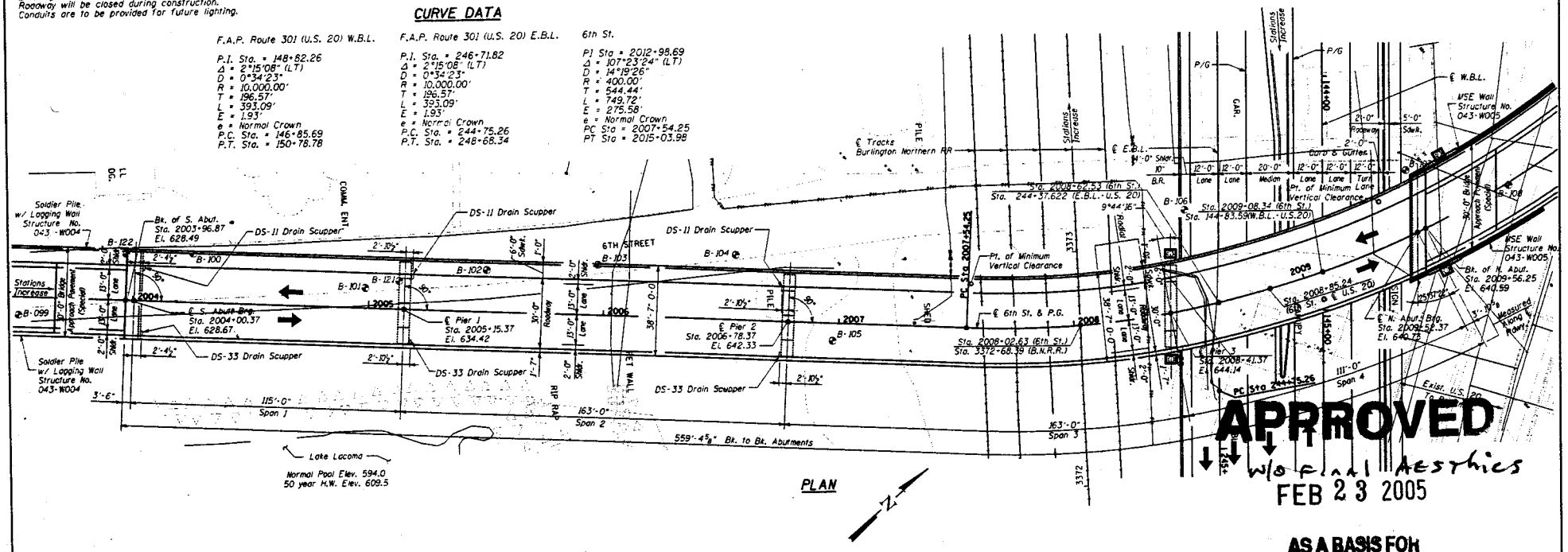
P.I. Sta. = 148+82.26
Δ = 2°15'08" (LT)
D = 0°34'23"
R = 10,000.00'
T = 196.57'
L = 393.09'
E = 1.93'
e = Normal Crown
P.C. Sta. = 146+85.69
P.T. Sta. = 150+78.78

F.A.P. Route 301 (U.S. 20) E.B.L.

P.I. Sta. = 246+71.82
Δ = 2°15'08" (LT)
D = 0°34'23"
R = 10,000.00'
T = 196.57'
L = 393.09'
E = 1.93'
e = Normal Crown
P.C. Sta. = 244+75.26
P.T. Sta. = 248+68.34

6th St.

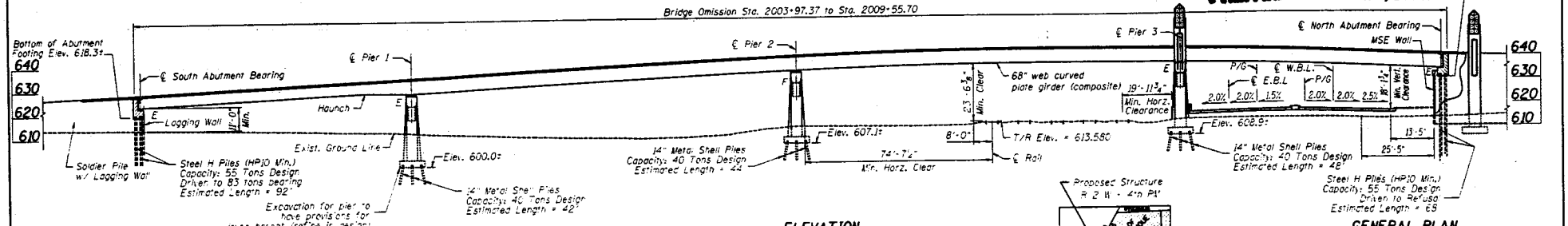
PI Sta = 2012+98.69
Δ = 107°23'24" (LT)
D = 14°19'26"
R = 400.00'
T = 544.44'
L = 749.72'
E = 275.58'
e = Normal Crown
PC Sta = 2007+54.25
PT Sta = 2015+03.98



PLAN

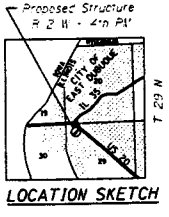
APPROVED
w/o final Aesthics
FEB 23 2005

AS A BASIS FOR
PREPARATION OF DETAILED PLANS



ELEVATION

Dimensions are at Right Angles to ℄ Roadway



LOCATION SKETCH

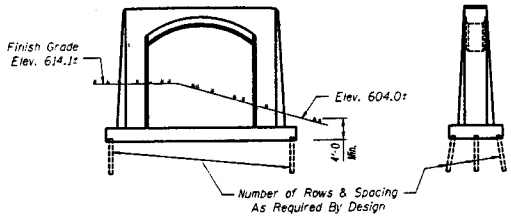
DESIGNED	S.T.S.
CHECKED	F.K.D.
DRAWN	L.M.G.
CHECKED	-

GENERAL PLAN
6th STREET OVER
U.S. HWY. 20 & BURLINGTON NORTHERN RR
F.A.P. ROUTE 301 (U.S. 20) SECTION 2B
JO DAVIESS COUNTY
STATION 2008+85.24
STRUCTURE NO. 043-0062

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 301 (U.S. 20)	2B	Jo Daviess		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		

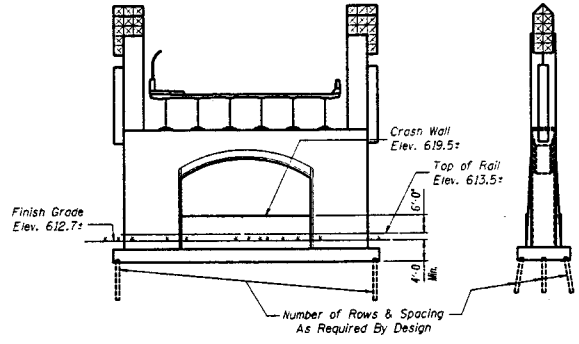
SHEET NO. 2
3 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



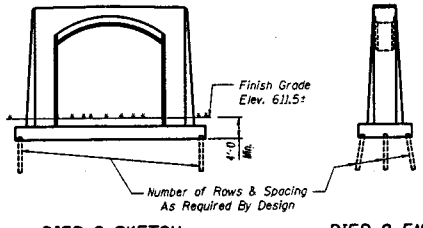
PIER 1 SKETCH

PIER 1 END VIEW



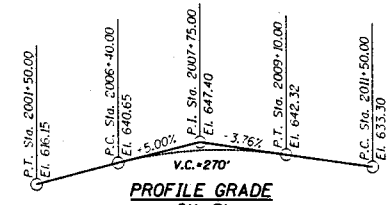
PIER 3 SKETCH

PIER 3 END VIEW

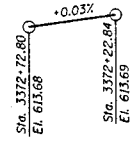


PIER 2 SKETCH

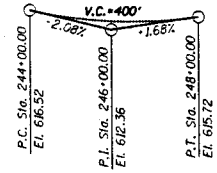
PIER 2 END VIEW



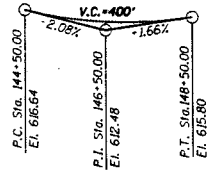
PROFILE GRADE
6th St
(along ℄ Roadway)



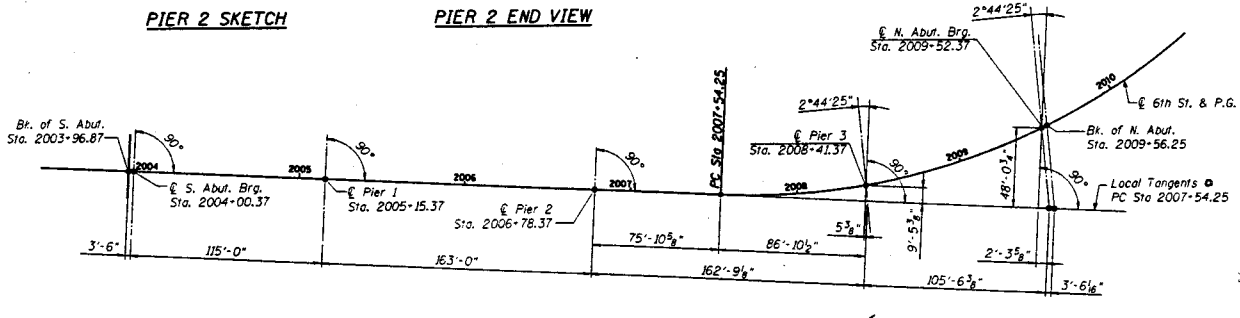
PROFILE GRADE
BURLINGTON NORTHERN R.R.
(along ℄ Tracks)



PROFILE GRADE
E.B.L. - U.S. 20
(along Inside Edge of Lanes)



PROFILE GRADE
W.B.L. - U.S. 20
(along Inside Edge of Lanes)



OFFSET SKETCH

HIGHWAY CLASSIFICATION

Route F.A.P. 301 - (U.S. 20)
Functional Class: Principle Arterial
ADT: 12,757 (2005) : 18,620 (2025)
ADTT (4%): 512 (2005) : 753 (2025)
DHV: 1541 (2005) : 2268 (2025)
Design Speed: 50 m.p.h.
Posted Speed: 45 m.p.h.

F.A.S. 1774 - (6th St.)
Functional Class: Urban Collector
ADT: 1545 (2005) : 1960 (2025)
ADTT: 62 (2005) : 79 (2025)
DHV: 186 (2005) : 236 (2025)
Design Speed: 30 m.p.h.
Posted Speed: 30 m.p.h.

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications
2003 AASHTO Guide Specifications for Horizontally Curved Steel Girder Highway Bridges

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = .03 g
Site Coefficient(s) = 1.0

DESIGN STRESSES

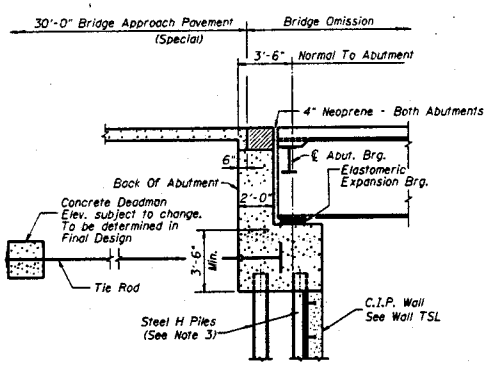
Field Units
f'_c = 3,500 psi
f_y = 60,000 psi (Reinforcement)
f_y = 50,000 psi (M270, Grade 50)

DESIGNED	S.T.S.
CHECKED	F.K.D.
DRAWN	L.M.G.
CHECKED	-

GENERAL DETAILS
6th STREET OVER
U.S. HWY. 20 & BURLINGTON NORTHERN RR
F.A.P. ROUTE 301 (U.S. 20) SECTION 2B
JO DAVIESS COUNTY
STATION 2008+85.24
STRUCTURE NO. 043-0062

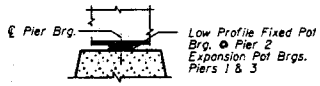
ROUTE NO.	SECTION	COUNTY			SHEET NO. 3
F.A.P. 301 (U.S. 20)	2B	Jo Daviess			3 SHEETS
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

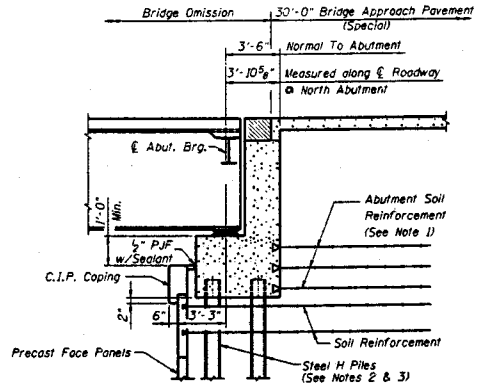


SECTION THRU SOUTH ABUTMENT

(Dimensions Normal To Abutment)



SECTION THRU PIER

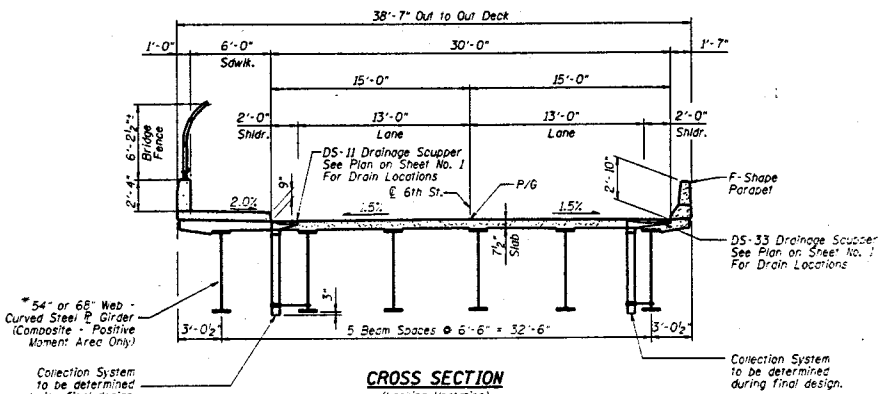


SECTION THRU NORTH ABUTMENT

(Dimensions Normal To Abutment)

Notes:

1. The M.S.E. Wall Supplier shall Design and Supply System to Resist Earth Pressure of 40 lbs./cu. ft. Equivalent Fluid Weight to the Back of Abutment and Backwall plus a Longitudinal Force Transmitted by the Bearings Applied to the Bridge Seat to be determined in final Design.
2. Steel H Piles shall be Driven Prior to Placement Reinforcement Select Fill.
3. Coat Piles with Coal Tar Epoxy above Existing Ground to 1" above base of Abutment.
4. Final Aesthetic Details to be refined in Design.



CROSS SECTION

(Looring Upstation)
(Dimensions shown are Radial)

*Note:
68" web for Spans 2, 3, & 4.
54" web for Span 1.

DESIGNED	S.T.S.
CHECKED	F.K.D.
DRAWN	L.M.G.
CHECKED	-

DECK SECTION & DETAILS
6th STREET OVER
U.S. HWY. 20 & BURLINGTON NORTHERN RR
F.A.P. ROUTE 301 (U.S. 20) SECTION 2B
JO DAVIESS COUNTY
STATION 2008+85.24
STRUCTURE NO. 043-0062