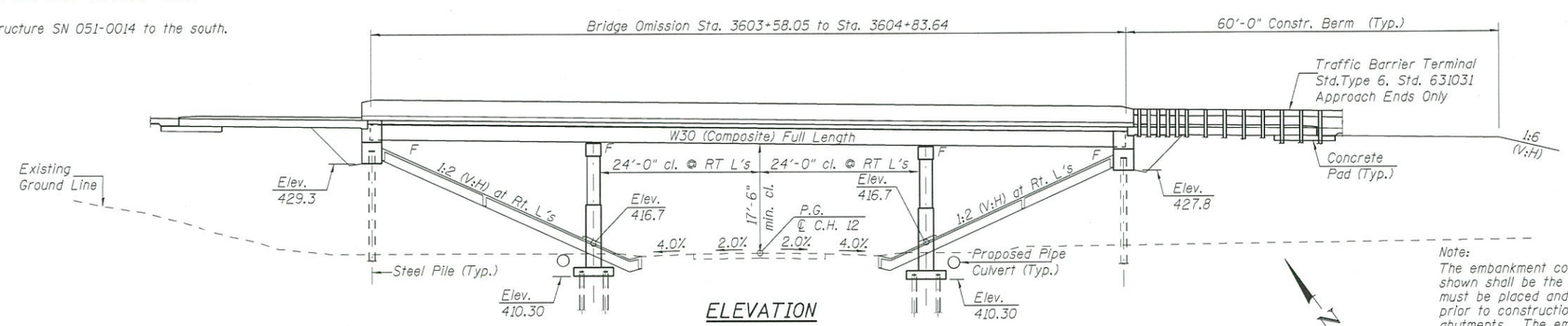
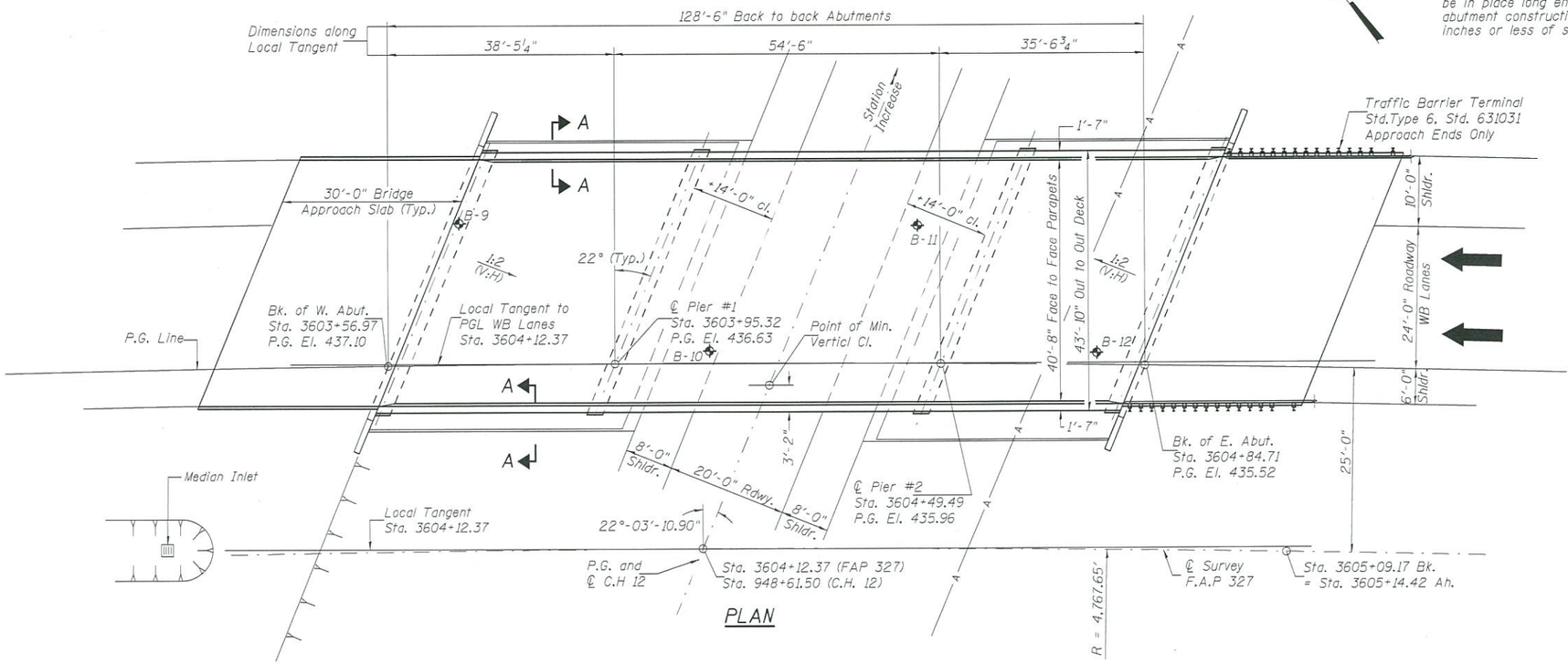
B.M. 427: Chiseled "□" on NE Corner of SN 051-0014,
19' Rt. Sta. 3604+78, Elev. 435.08

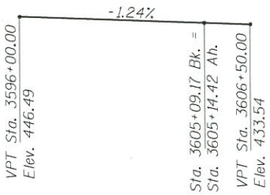
Existing Dual Structure SN 051-0014 to the south.



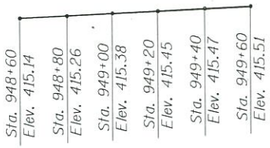
ELEVATION



PLAN



PROFILE GRADE - F.A.P. 327
(Along Median Edge WB Lane)



PROFILE GRADE - C.H. 12
(Along ℄ Roadway)

Note:
The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments. The embankment shall be in place long enough prior to abutment construction such that 0.4 inches or less of settlement remains.

HIGHWAY CLASSIFICATION

FAP 327 (US 50)
Functional Class: Other Principal Arterial
ADT: 5,525 (2017), 7,100 (2037)
ADTT: 1,017 (2017), 1,306 (2037)
DHV: 595 (2017), 765 (2037)
Design Speed: 70 m.p.h.
Posted Speed: 65 m.p.h.
2-Way Traffic
Directional Distribution: 50:50

County Highway 12
Functional Class: Local Road (Non-Urban)
ADT: 225 (2014), 225 (2034)
ADTT: 25 (2014), 25 (2034)
Design Speed: 30 m.p.h.
Posted Speed: None
2-Way Traffic

DESIGN STRESSES

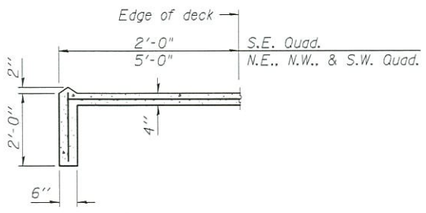
(Field Units)
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (Reinforcement)
fy = 50,000 p.s.i. (Structural Steel)
(AASHTO M270 Grade 50)

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Design Specifications

LOADING HL-93

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



SECTION A-A

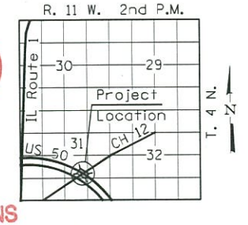
SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.225g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.515g
Soil Site Class = D

CURVE DATA

℄ Survey F.A.P. 327
Δ = 66°-00'-00" (RT)
D = 1°-12'-06.34"
T = 3,096.15'
L = 5,491.94'
E = 917.12'
R = 4,767.65'
S.E. = 4.00%
P.C. = Sta. 3550+17.24
P.T. = Sta. 3605+09.17
P.I. = Sta. 3581+13.39
S.E. Removed Sta. 3604+49.77 to Sta. 3607+03.02

APPROVED
FEB 09 2015
AS A BASIS FOR PREPARATION OF DETAILED PLANS



LOCATION SKETCH

GENERAL PLAN
US ROUTE 50 OVER CH 12
F.A.P. ROUTE 327 SECTION (51-23HB-3)B-1
LAWRENCE COUNTY
STATION 3604+12.37
STR. NO. 051-0073 WBL

Hutchison Engineering, Inc. Jacksonville, Peoria & Shorewood Illinois	USER NAME = bnebel	DESIGNED - JOH	REVISED -
	PLOT SCALE = NONE	CHECKED - BAN	REVISED -
	PLOT DATE = 2/9/2015	DRAWN - TAC	REVISED -
		CHECKED - JOH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
STR. NO. 051-0073 WBL
SHEET NO. 1 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	-	RICHLAND/LAWRENCE		
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

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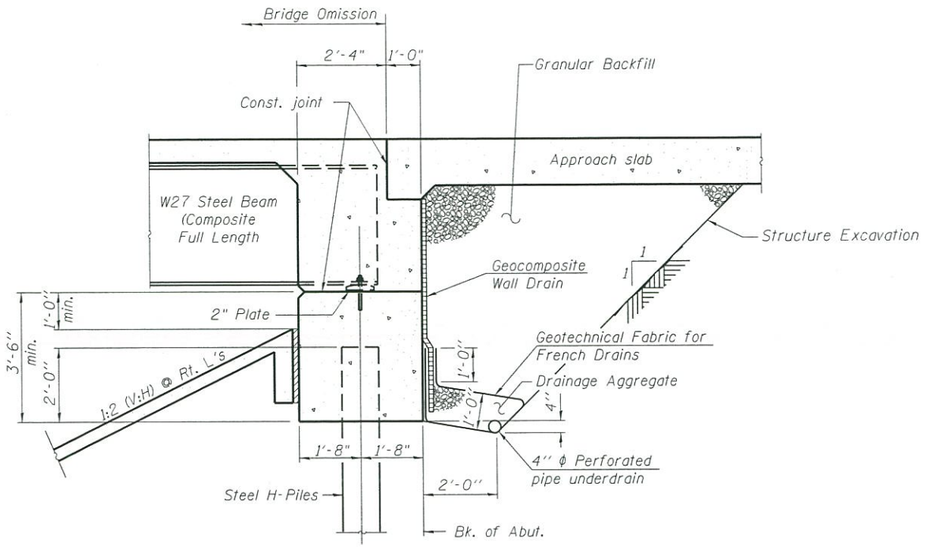
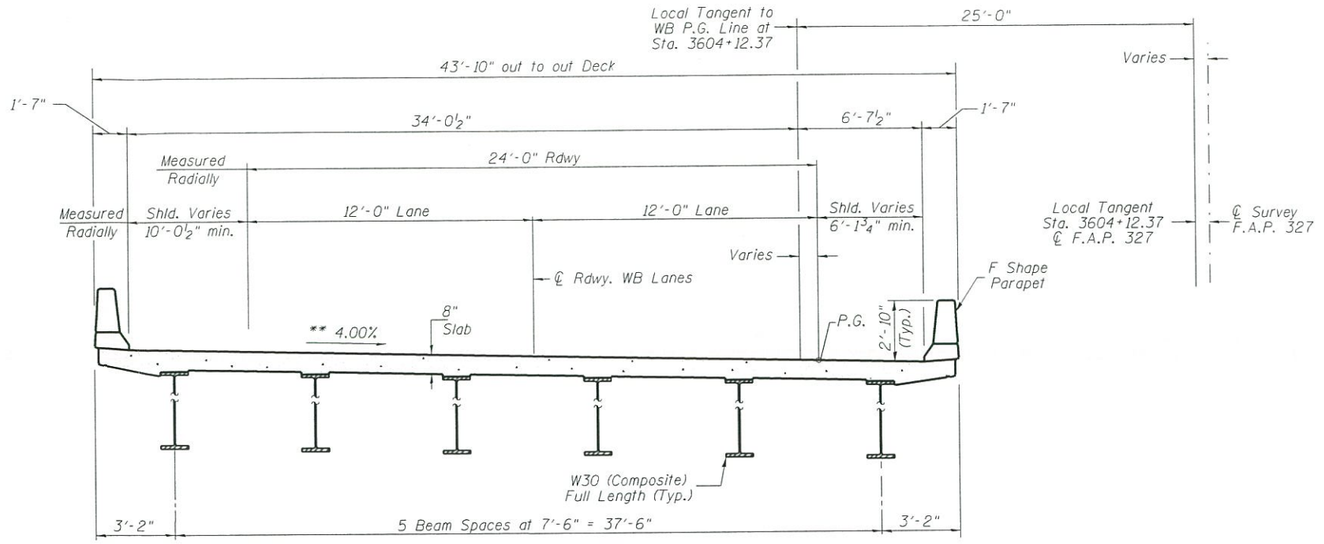


SECTION THRU INTEGRAL ABUTMENT

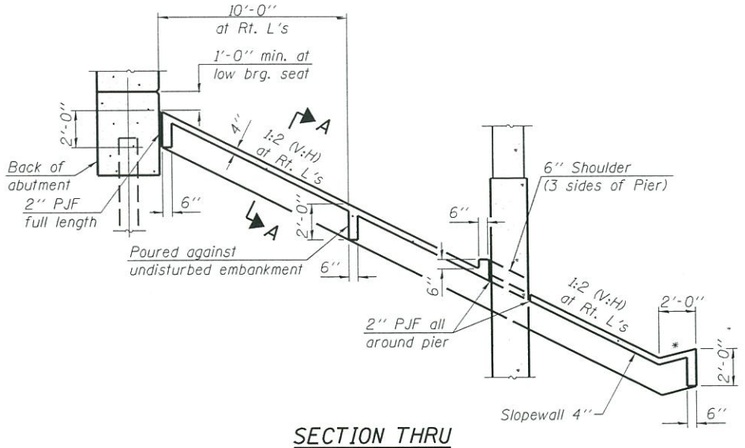
(Horiz. dim. @ Rt. L's)



PROPOSED CROSS SECTION WESTBOUND STRUCTURE

(Looking East)

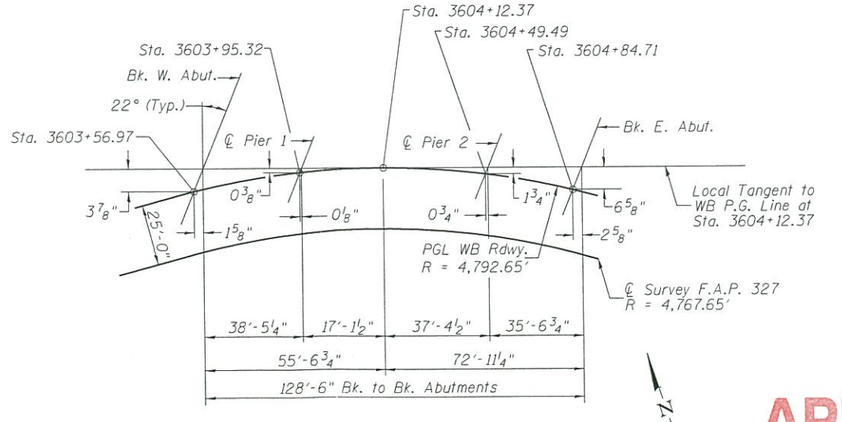
** S.E. Removed Sta. 3604+49.77 to Sta. 3607+03.02



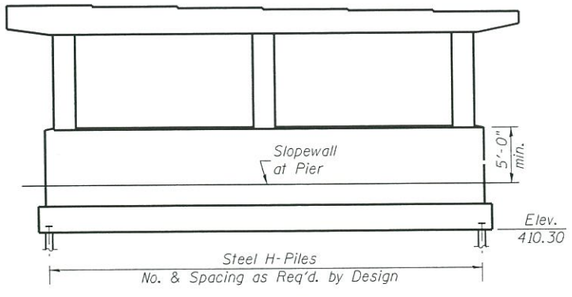
SECTION THRU CONCRETE SLOPEWALL

For Sec. A-A, See Sh.# 1 of 2

*1:4 (V:H)



OFFSET SKETCH WESTBOUND STRUCTURE



PIER SKETCH

APPROVED

FEB 09 2015

AS A BASIS FOR PREPARATION OF DETAILED PLANS

GENERAL DETAILS
US ROUTE 50 OVER CH ROUTE 12
F.A.P. ROUTE 327 SECTION (51-23HB-3)B-1
LAWRENCE COUNTY
STATION 3604+12.37
STR. NO. 051-0073 WBL

Hutchison Engineering, Inc. Jacksonville, Peoria & Shorewood Illinois	USER NAME = bnebel	DESIGNED - JOH	REVISED - ___
	PLOT SCALE = NONE	CHECKED - BAN	REVISED - ___
	PLOT DATE = 1/7/2015	DRAWN - TAC	REVISED - ___
		CHECKED - JOH	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS
STR. NO. 051-0073 WBL
SHEET NO. 2 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	-	RICHLAND/LAWRENCE		
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

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