

Bench Mark: Chiseled square on Concrete Headwall north of Structure 037-0069 El. 606.72

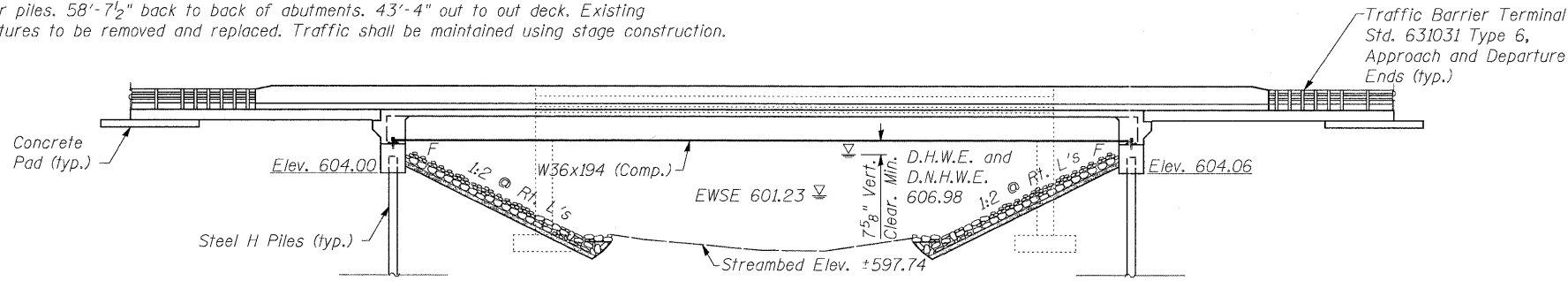
Existing Structure: S.N. 037-0069 built in 1929 as SBI Route 82, Section 128B. In 1949 Structure was widened as SBI Route 82, Section 128B-Y. The structure consists of single span reinforced concrete deck overlaid with a bituminous wearing surface on reinforced concrete tee beams supported by closed abutments with untreated timber piles. 58'-7 1/2" back to back of abutments. 43'-4" out to out deck. Existing structures to be removed and replaced. Traffic shall be maintained using stage construction.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

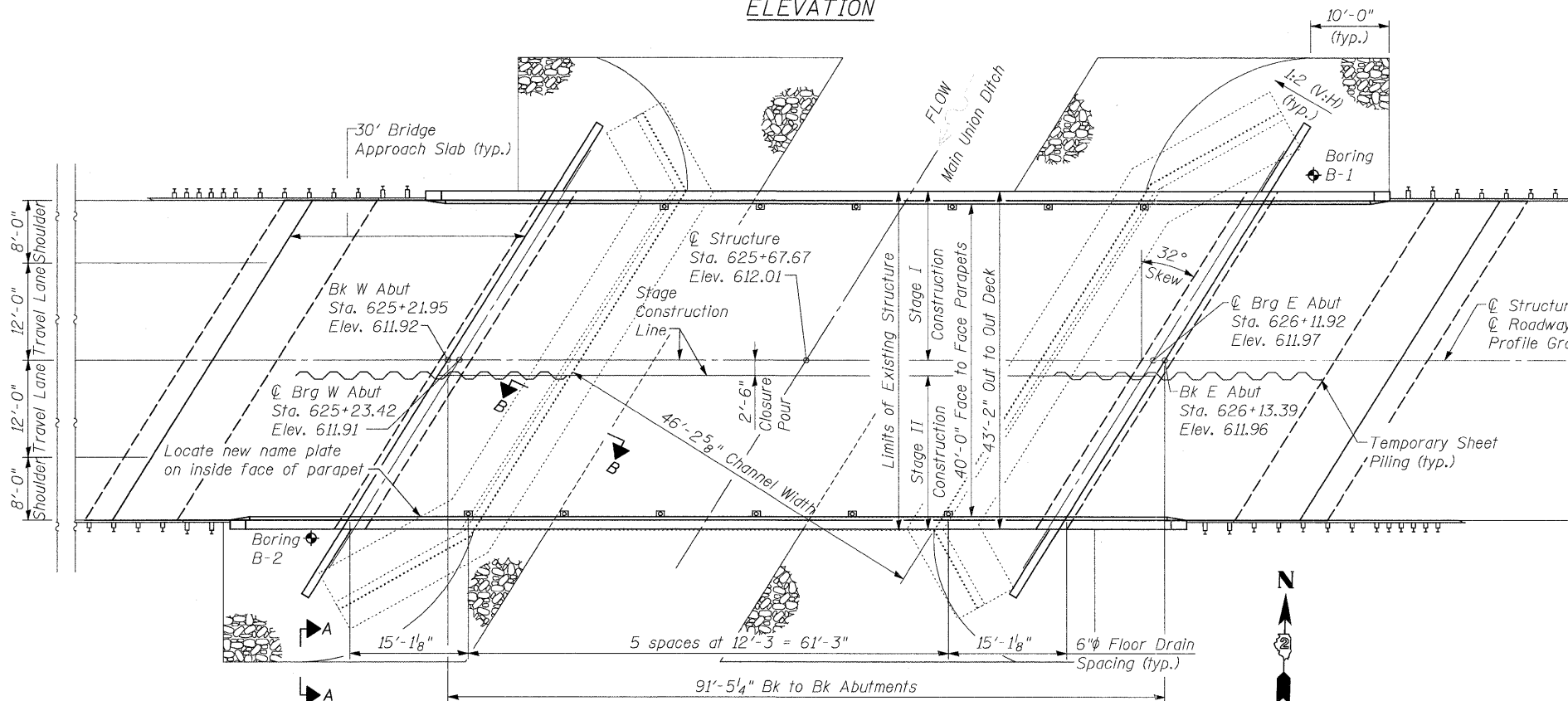
GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts (in painted areas and M164 Type 3 in unpainted areas). Bolts 3/4" ϕ , holes 15/16" ϕ , unless otherwise noted.
Calculated weight of Structural Steel = 111,700 Pounds.
All structural steel shall be AASHTO M 270 Grade 50W. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".
No field welding is permitted except as specified in the contract documents.
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions. Reinforcement bars designated (E) shall be epoxy coated.
Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
Slip forming of parapet is not allowed.

No salvage



ELEVATION



PLAN

INDEX OF SHEETS

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- 2 Suggested Stage Construction/General Details
- 3 Temporary Concrete Barrier
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- 14 West Abutment Details
- 15 East Abutment Details
- 16 HP Pile Details
- 17 Bar Splicer Assembly and Mechanical Splicer Details
- 18-20 Soil Boring Log

STATION 625+67.67
BUILT 201_ BY
STATE OF ILLINOIS
F.A.P. RTE. 585 SEC. 128 BR
LOADING HL-93
STRUCTURE NO. 037-0174

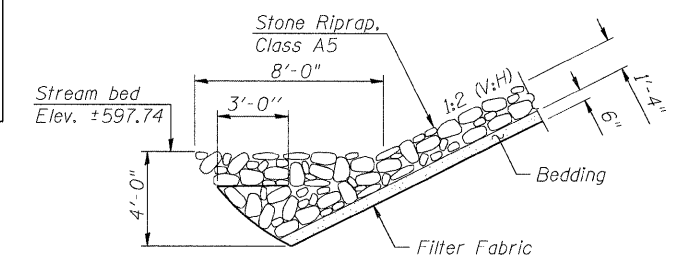
NAME PLATE
See Std. 515001

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

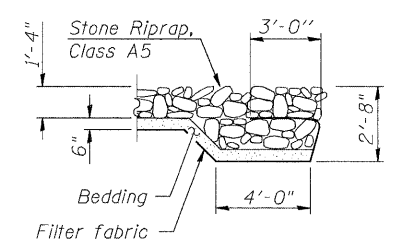
DESIGN SPECIFICATIONS
2007 AASHTO LRFD Bridge Design Specifications with 2008 and 2009 Interims

DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50W)

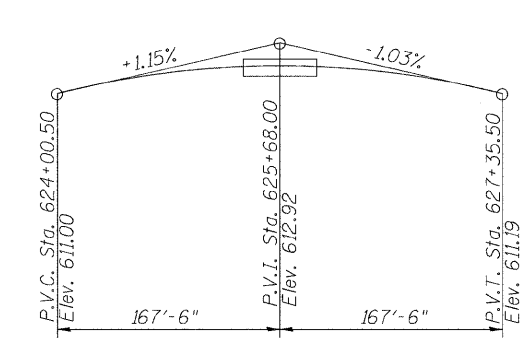
SEISMIC DATA
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec (SD1) = 0.089g
Design Spectral Acceleration at 0.2 sec (SD5) = 0.140g
Soil Site Class = D



SECTION B-B



SECTION A-A



PROFILE GRADE
Length of V.C. = 335'
(F.A.P. 585 along ϕ of Roadway)

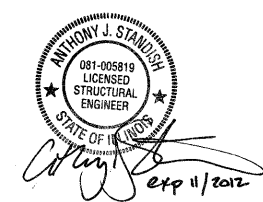
WATERWAY INFORMATION

Drainage Area = 12.02 mi.² Low Grade Elev. 611.98 @ Sta. 626+08

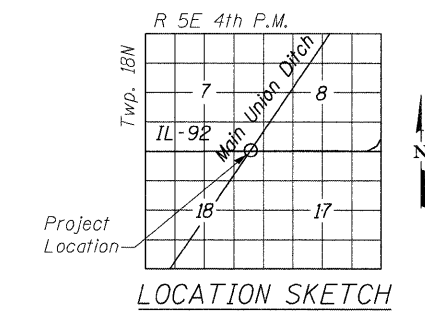
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	427	302	330	605.56	0.01	0.00	605.57	605.56	
Base	50	598	346	431	606.98	0.02	0.00	607.00	606.98	
Overtopping	100	663	391	466	607.22	0.00	0.00	607.22	607.22	
Max. Calc.	500	810	400	478	607.37	0.02	0.02	607.39	607.39	

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut.	E. Abut.
	604.04	604.09



APPROVED
FOR STRUCTURAL ADEQUACY ONLY
ENGINEER OF BRIDGES AND STRUCTURES



GENERAL PLAN AND ELEVATION
IL-92 OVER MAIN UNION DITCH
F.A.P. RTE 585 - SEC. 128 BR
HENRY COUNTY
STATION 625+67.67
STRUCTURE NO. 037-0174

FILE NAME = S:\JLD\63300-63999\6346\027\Murphy\Final Plans\Structure\0370174-64C20-001-DPE.dgn



1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = brianf	DESIGNED MJD	REVISED -
	PLOT SCALE =	CHECKED AJS	REVISED -
	PLOT DATE = 8/11/2011	DRAWN B/JF	REVISED -
		CHECKED RRD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 037-0174
SHEET NO. 1 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
585	128 BR	HENRY	106	45

CONTRACT NO. 64C20
ILLINOIS FED. AID PROJECT