

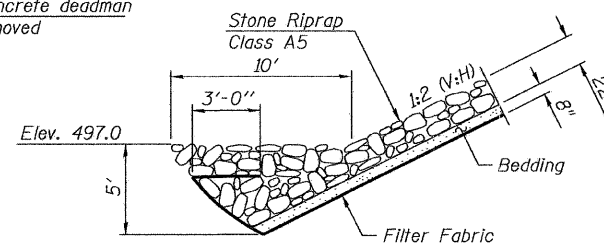
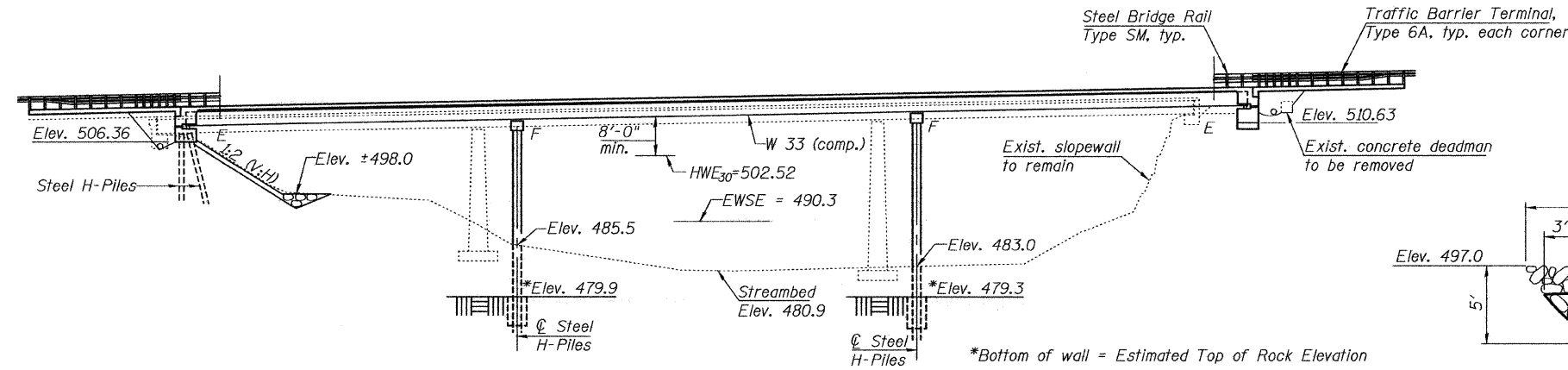
Benchmark: Chiseled "□" in corner of bridge curb at expansion joint, SW corner SN 032-3100, Elev. 514.00

Existing Structure: The existing structure, SN 032-3100, was built in 1958 as part of F.A.S. Rte. 287, Section 39-B. The existing superstructure consists of 5-noncomposite wide flange beams supporting a 6 1/2" deck. The existing W. abutment is supported by piles while the existing solid wall piers with footings and existing E. abutment are keyed into rock. The existing structure is 214' back to back of abutments and 31'-8" out to out of deck. The existing structure is to be removed and replaced using staged construction to maintain one lane of traffic at all times.

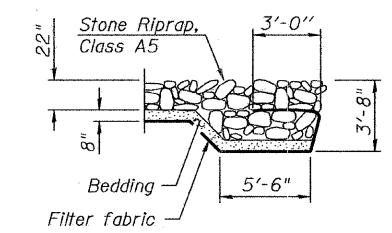
No salvage

ROUTE NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO. 1
F.A.S. 287	#	GRUNDY	33	6	25 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

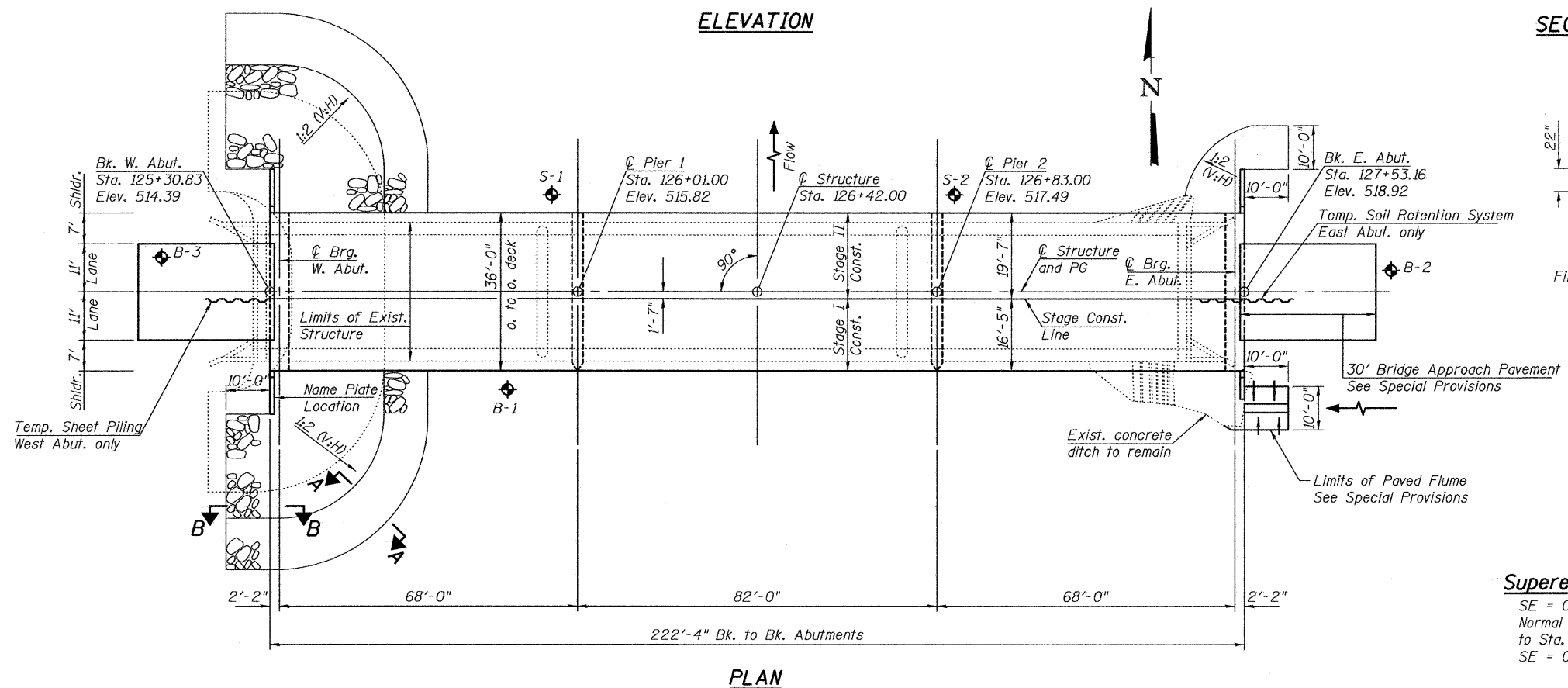
Contract #87376 *05-00039-03-BR



SECTION A-A



SECTION B-B



PLAN

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

FIELD UNITS

- f'c = 3,500 psi
- fy = 60,000 psi (Reinforcement)
- fy = 50,000 psi (M270 Grade 50) for primary structural members
- fy = 36,000 psi (M270 Grade 36)

LOADING HS 25

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

SEISMIC DATA

- Seismic Performance Category (SPC) = A
- Bedrock Acceleration Coefficient (A) = 0.04
- Site Coefficient (S) = 1.0

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Notes and Total Bill of Material
- 3 Stage Construction Details
- 4 Temporary Construction Works
- 5 Temporary Concrete Barrier
- 6-9 Top of Slab Elevations
- 10 Top of Approach Slab Elevations West Approach
- 11 Top of Approach Slab Elevations East Approach
- 12 Superstructure
- 13 Superstructure Details
- 14 Steel Railing, Type SM
- 15 Structural Steel Details
- 16 Bearing Details
- 17 West Abutment
- 18 East Abutment
- 19 Pier 1
- 20 Pier 2
- 21 Pile Details
- 22 Bar Splicer Assembly Details
- 23-25 Boring Logs

Superelevation Transitions

SE = 0.058 ft/ft at Sta. 123+78
 Normal Crown at Sta. 125+78
 to Sta. 127+75
 SE = 0.058 ft/ft at Sta. 129+25

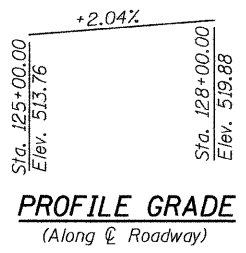
Mazon River
 BUILT 20__ BY
 GRUNDY COUNTY
 SECTION 05-00039-03-BR
 F.A.S. RT. 287 STA. 126+42.00
 SN 032-3101 LOADING HS25

NAME PLATE
 See Std. 515001

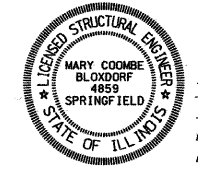
WATERWAY INFORMATION

Drainage Area = 486.0 Sq. Mi. Low Grade Elev. 506.6 @ Sta. 119+50

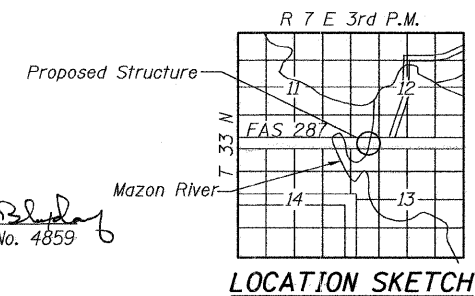
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Nat. H.W.E. Exist.	Prop.	Head - Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
Design	30	17,776	2684	2726	502.52	0.34	0.31	502.86	502.83	
	100	22,334	2902	2947	503.71	0.60	0.54	504.31	504.25	
Max. Calc.	500	27,886	3139	3186	504.98	1.15	0.99	506.13	505.97	



PROFILE GRADE
 (Along Roadway)



Mary Coombe Bloxdorf
 Illinois Structure No. 4859
 Expires: 11/30/10
 Date: 10/22/09



LOCATION SKETCH

ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET TITLE GENERAL PLAN & ELEVATION	
PROJECT F.A.S. RT. 287 (C.H. 29) SECTION 05-00039-03-BR GRUNDY COUNTY STATION 126+42.00 STRUCTURE NO. 032-3101	PROJECT NO. 05042 SCALE DATE 10/21/09 DRAWN BY IFG CHECKED BY CME/MCB DRAWING NO.
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	
	1 OF 25 SHTS

PLOT DATE = 10/22/09
 FILE NAME = \\bridge-planning-01\plott\p05042.dgn
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = JFC