

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-063 I	WILL	50	3
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BENCHMARK:

BM 3059: Square cut on top of 36 inch box culvert between I-55 and E. Frontage Road and about 100 feet north of a crossover and about 1200 feet north of CSXRR. El. 548.88

EXISTING STRUCTURE:

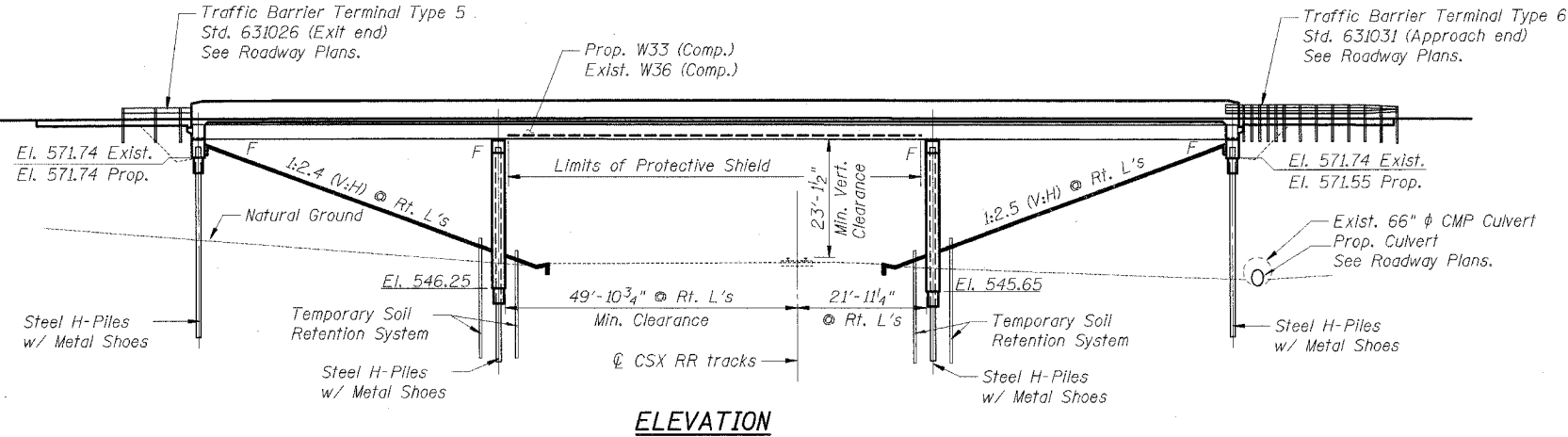
S.N. 099-0312 constructed in 1994. Three span, 202'-10" back to back of abutments, continuous steel multi-beam bridge on solid wall pile bent piers and integral abutments. Wide flange girders composite with deck. 40' between barriers.

SALVAGE:

None.

STAGING:

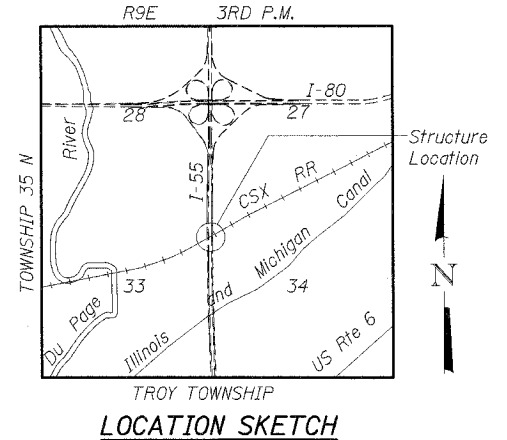
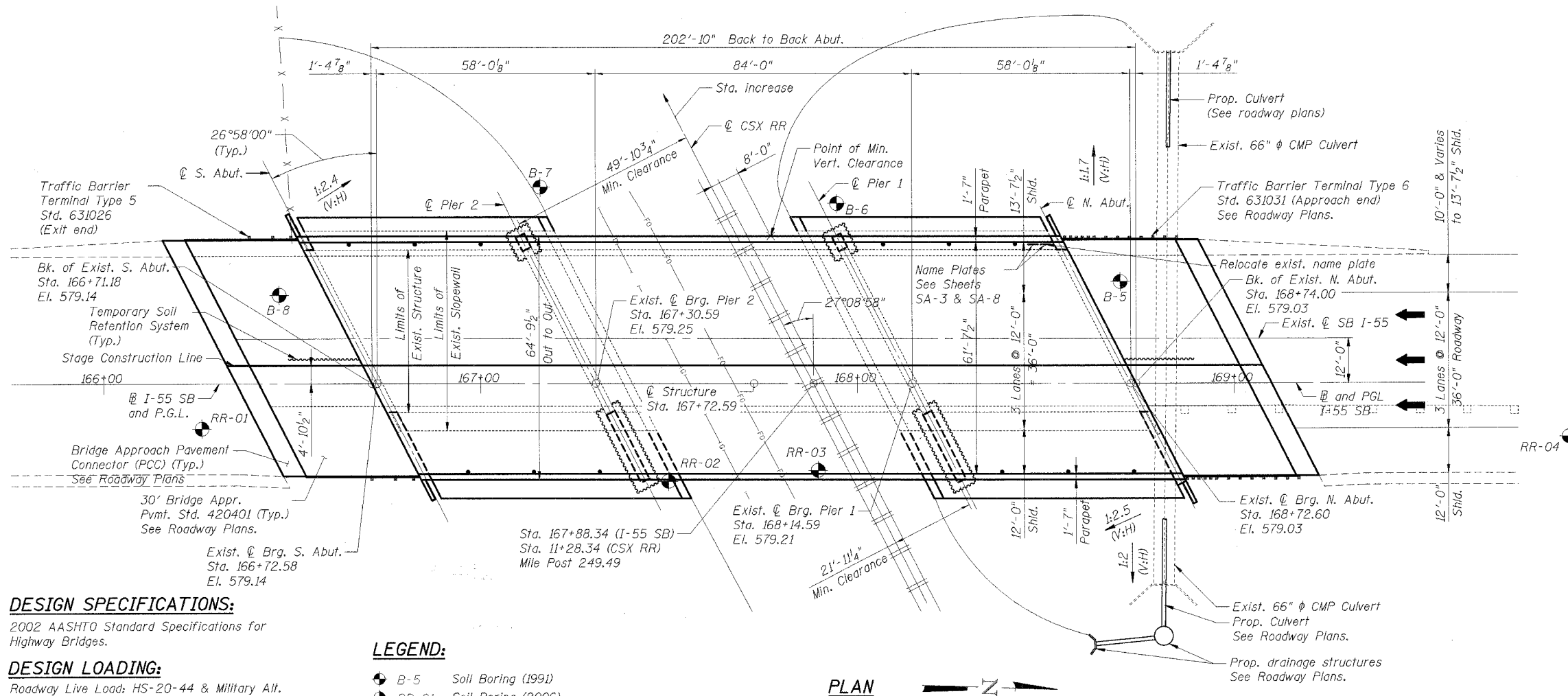
See Sheet SA-2.



TOTAL BILL OF MATERIAL

Item	Unit	Total
Furnishing Structural Steel	L Sum	0.20
Storage of Structural Steel and Bearings	Unit	83 ***

*** Refer to Special Provisions Furnishing Structural Steel and Bearings for definition of Storage Unit. Quantity of Storage Units is based on storing 25% of the steel mass for 30 calendar days.



DESIGN SPECIFICATIONS:

2002 AASHTO Standard Specifications for Highway Bridges.

DESIGN LOADING:

Roadway Live Load: HS-20-44 & Military Alt. Future Wearing Surface: 50 psf

DESIGN STRESSES:

Concrete, $f'_c = 3,500$ psi
Reinforcement, $f_y = 60,000$ psi
Structural Steel, $f_y = 50,000$ psi (M 270 Grade 50)

SEISMIC DATA:

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

LEGEND:

- ⊕ B-5 Soil Boring (1991)
- ⊕ RR-01 Soil Boring (2006)
- G — Gas
- FO — Fiber Optic
- x — x — Fence
- Floor Drain
- F Fixed
- Temporary Soil Retention System

Notes:

For PGL of I-55 SB and CSXRR see Sht. SA-3.

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Robert E. Adams
ENGINEER OF BRIDGES AND STRUCTURES



6/9/06
EXPIRES 11/30/06

SHT. SA-1 OF 21

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO WEBER ROAD)
BEAM AND BEARING FABRICATION
SB I-55 OVER CSX RAILROAD, S.N. 099-0312
STA. 167+72.58, SECTION 2005-063 I
WILL COUNTY

**GENERAL PLAN & ELEVATION,
TOTAL BILL OF MATERIAL**

SCALE: DATE 06/08/06 DRAWN BY MOB CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = 06/08/06
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