

Bench Mark: Chiseled square on raised concrete median at center of US 45 approximately 140'-0" North of I-57/70 centerline. US Route 45 Sta. 60+10. Elev. 592.07.

Existing Structure: The existing single cell reinforced concrete box culvert was constructed in 1959.

INDEX OF SHEETS

1. Culvert Layout
- 2-4. Culvert End Section Details
5. Detail A Concrete Pipe Elbow Collar Details
6. Detail B Concrete Box Culvert Elbow Details
7. Detail C Concrete Box Culvert Elbow Details
8. Borings

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

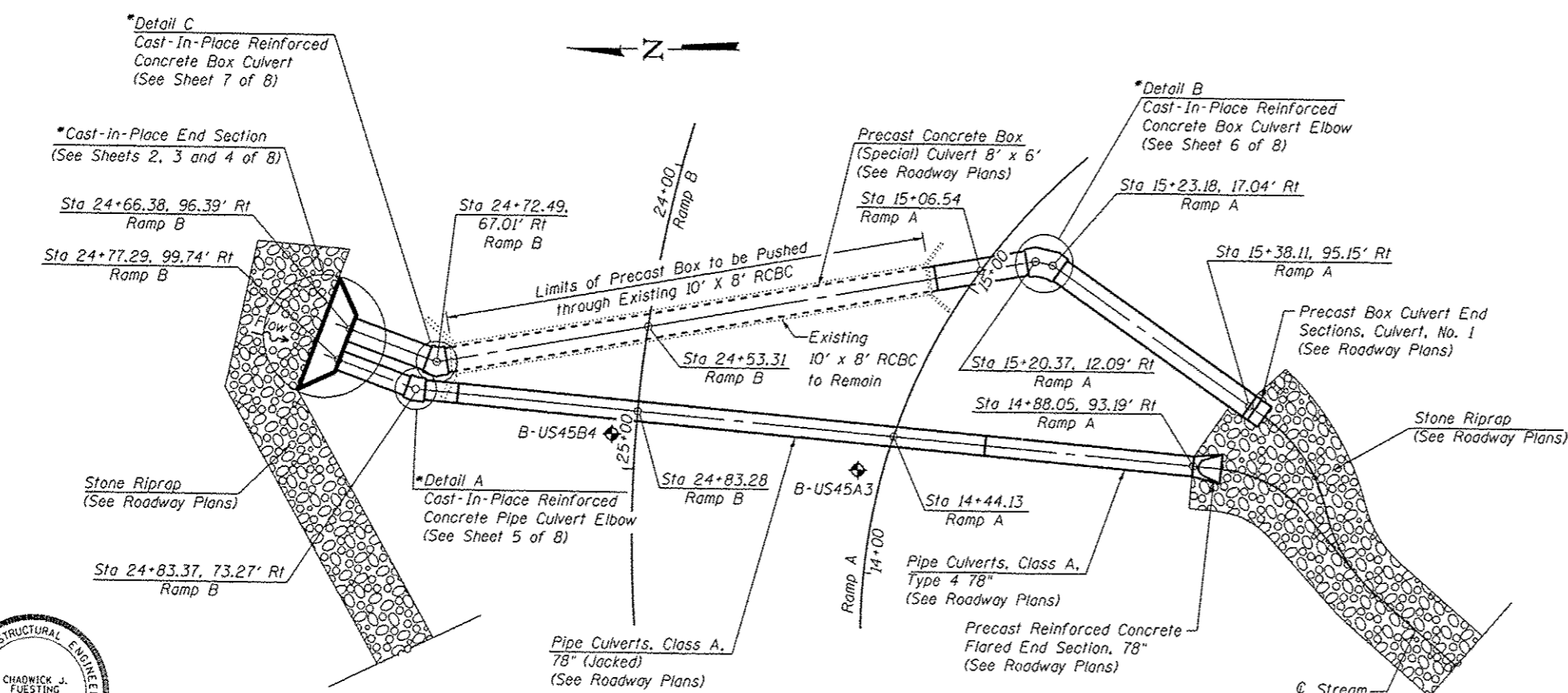
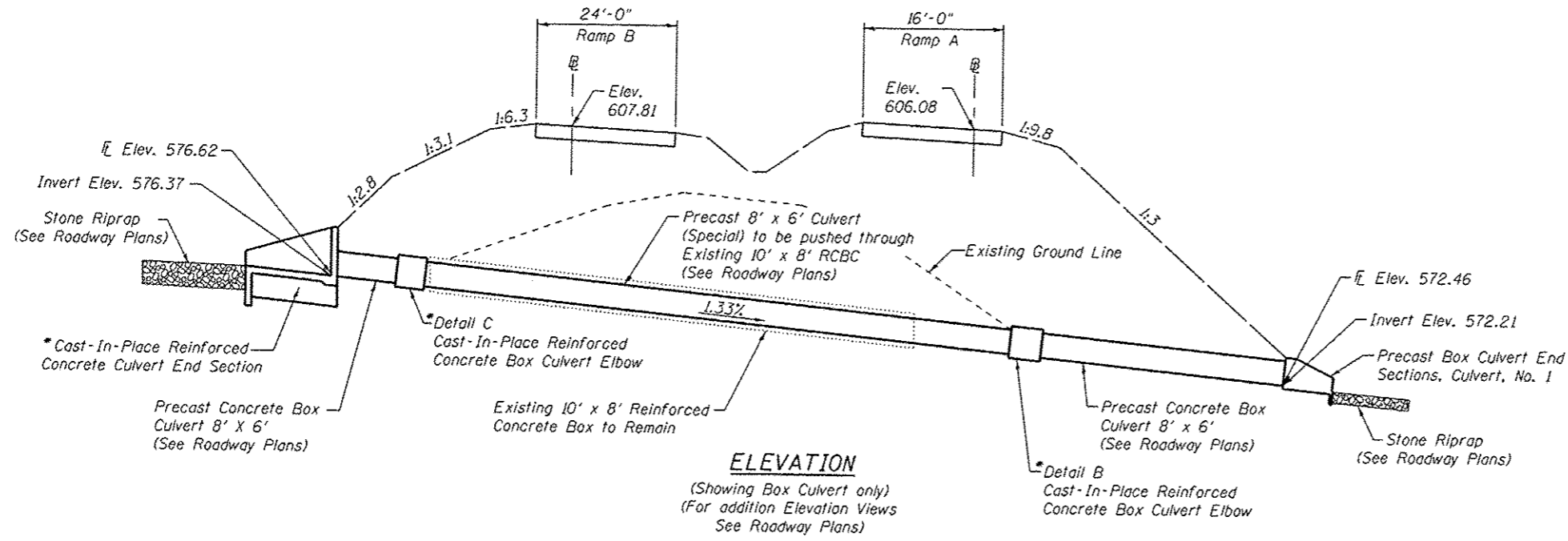
LOADING HL-93

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

TOTAL BILL OF MATERIAL

Item	Unit	Qty.
Concrete Removal	Cu. Yd.	6.3
Removal & Disposal of Unsuitable Material	Cu. Yd.	20.3
Reinforcement Bars	Pound	11270
Reinforcement Bars, Epoxy Coated	Pound	480
Concrete Box Culverts	Cu. Yd.	71.1
Bedding Material, Special	Cu. Yd.	20.3



GENERAL NOTES

*** Indicates locations where Precast Alternates are not allowed. For Limits and Details of Riprap and quantity see Roadway Plans. Reinforcement bars designated (E) shall be epoxy coated. Precast Alternates for Details A, B, or C shall be according to the Standard Specifications for Road and Bridge Construction. The substitution of Details A, B, or C by means of developing bends out of individually sawing precast units which are joined by mortared joints shall not be allowed. For quantities and Details of Precast Pipes, Precast Culverts, Jacking & Pushing of Culverts See Roadway Plans. Plan Dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity furnished at the unit price for the work. Work related to cast-in-place elbows and end sections shall be according to Section 540. Box Culverts of the Standard Specifications. The Concrete for all cast-in-place elbows and end sections shall be paid for as Concrete Box Culverts per cubic yard.

CAST IN PLACE CULVERT DETAIL
U.S. ROUTE 45, RAMPS A & B
F.A.I. RTE. 57/70 - SEC. (25-4)R
EFFINGHAM COUNTY
STATION 24+70.29



Chadwick J. Fuesting 5/13/13

FILE NAME * US 45.dgn	USER NAME *	DESIGNED - ACS	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SHEET NO. 1 OF 8 SHEETS
ILLINOIS DESIGN FIRM NUMBER 184.001670	CHECKED - BB	DRAWN - WJS	REVISIONS -		
PLOT SCALE *	DRAWN - WJS	CHECKED - CJF	REVISIONS -		
PLOT DATE * 11:42:40 AM 5/13/2013	CHECKED - CJF				