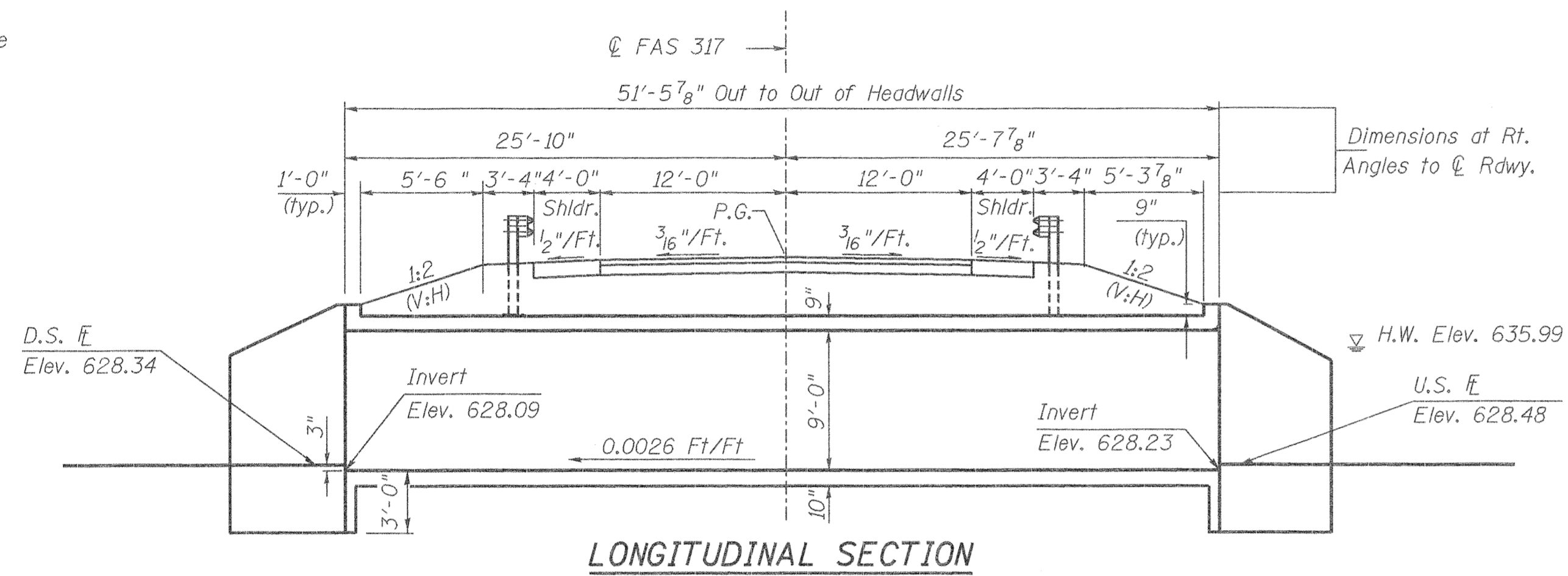


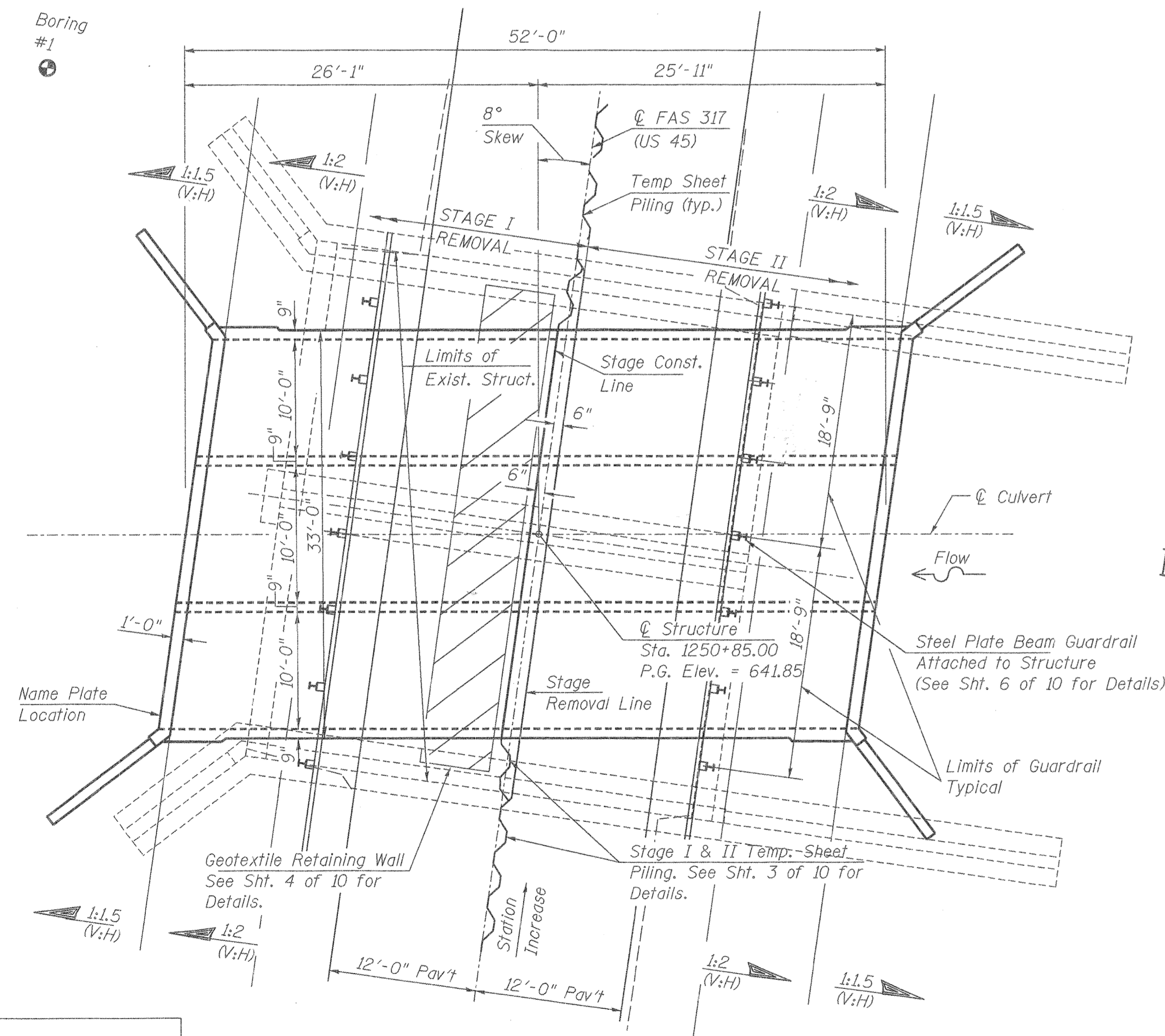
B.M. Top of N.W. Wingwall
Chis. Sq. Elev. 641.724

Existing Structure No. 038-0040 built as SBI Rte 25 Sec. 36 BY in 1952 is a two span continuous bridge with an 11" R.C. Slab. 43'-0" bk. to bk. abutments, 2 Spans @ 20'-0" with closed abutments. 35'-0" f. to f. of curb and 38'-4" o. to o. of deck.
Structure to be replaced with a triple box culvert.
Traffic to be maintained utilizing stage construction

No Salvage

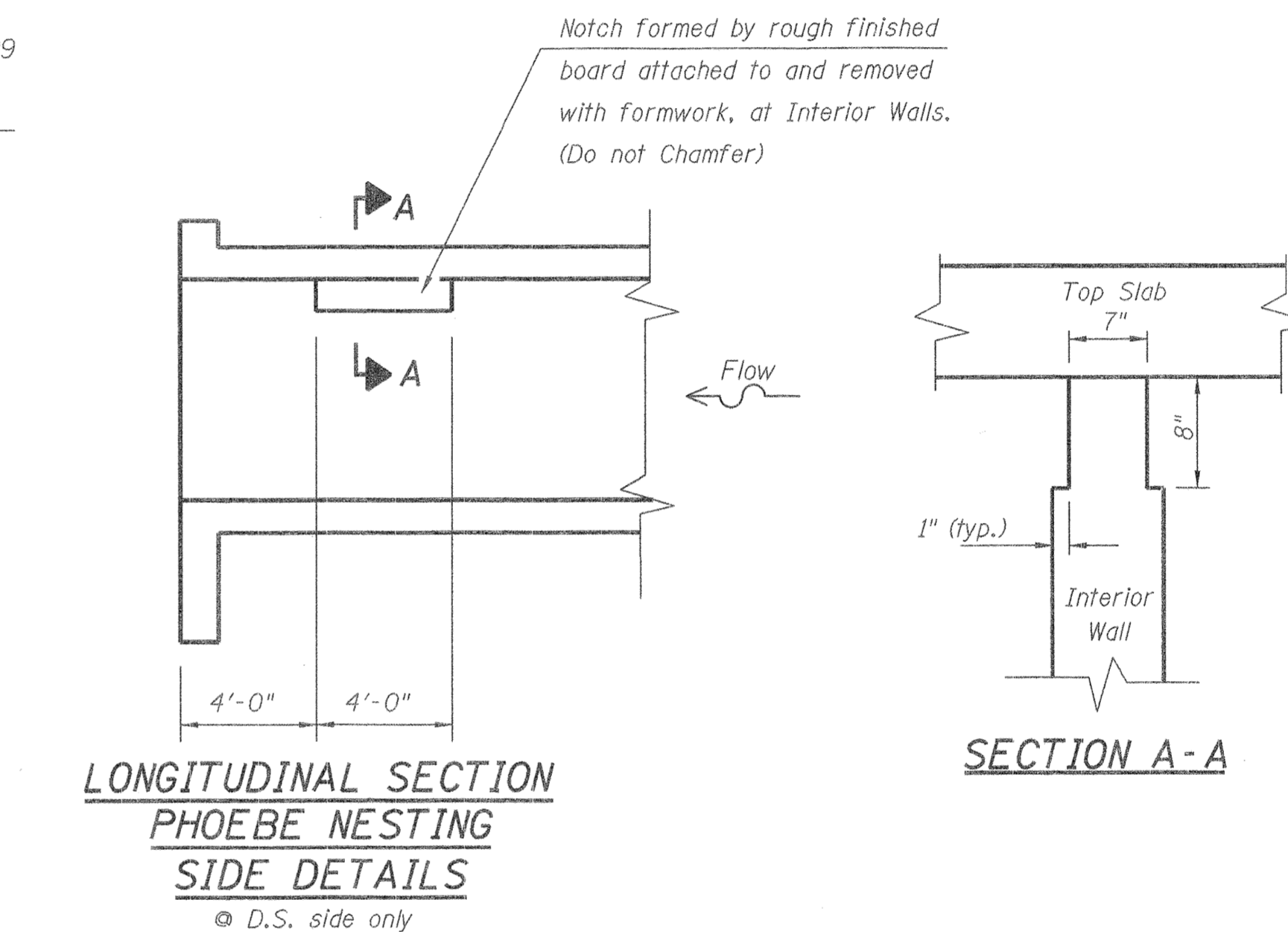
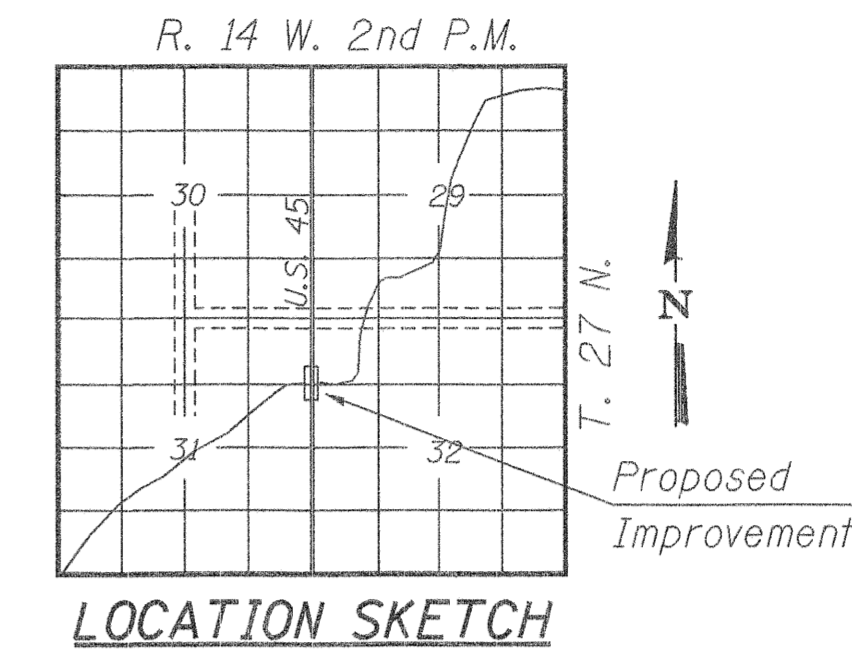
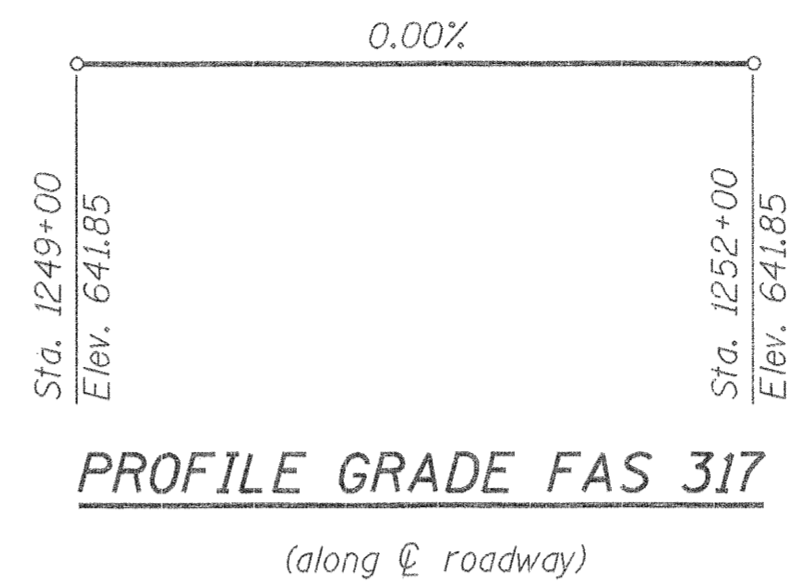


LONGITUDINAL SECTION



PLAN

DESIGNED	R.K.M.
CHECKED	M.E.B.
DRAWN	J.T.C.
CHECKED	M.E.B.

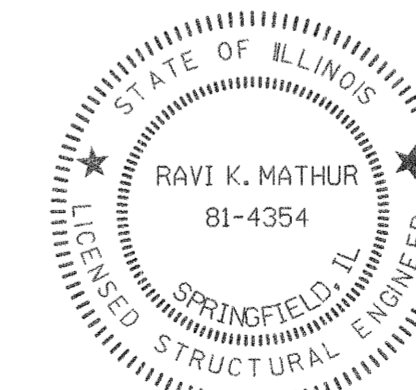


WATERWAY INFORMATION

Drainage Area = 2.8 sq. mi.		Low Grade Elev. 641.85		Sta. 1250+85.00	
Flood Freq. Yr.	Opening Sq. Ft.	*Nat. Exist.	*Nat. Prop.	Head-Ft. Exist.	Headwater El. Prop.
Design 50	386	180	232	635.99	0.0 635.99
Base 100	434	191	239	636.22	0.0 636.22
Overtopping NA					
Max. Calc. 500	544	208	252	636.65	0.03 636.68

* Upstream face of culvert

STATION 1250+85.00
BUILT 20___ BY
STATE OF ILLINOIS
F.A.S. RTE. 317 SEC. 36-BR
LOADING HS20
STR. NO. 038-2015
NAME PLATE
See Std. 515001



Ravi K. Mathur 5/5/05
ILLINOIS STRUCTURAL NO. 081-004354 EXPIRES 11/30/2006

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
F.A.S. 317	36-BR	IROQUOIS	21	9	10 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

CONTRACT NO. 66171

GENERAL NOTES

- Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.
- Exposed edges shall be beveled 3/4" unless otherwise noted.
- For backfilling and embankment, see Standard Specifications.
- The precast concrete alternate will not be allowed.
- Saw cut existing abutments and piers at stage removal line before removing the existing structures.
- The Contractor shall excavate behind the existing abutment walls prior to removal of the existing superstructure. Cost included with Removal of Existing Structures.
- All construction joints shall be bonded.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Reinforcement Bars	Pounds	31,640
Removal of Existing Structures	Each	1
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	174.7
Bar Splicers	Each	154
Temporary Sheet Piling	Sq. Ft.	1,105
Geotextile Retaining Wall	Sq. Ft.	10.5
Steel Plate Beam Guardrail Attached to Structures	Foot	75

* See Special Provisions.

DESIGN SPECIFICATIONS

1996 AASHTO with 1997 thru 2002 Interims

LOADING HS20-44

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

DESIGN STRESSES

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

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ravi E. Anderson (P.E.)
ENGINEER OF BRIDGES AND STRUCTURES

GENERAL PLAN & ELEVATION
F.A.S. 317 (U.S. RTE 45) OVER
TRIBUTARY TO SPRING CREEK
SECTION 36-BR
IROQUOIS COUNTY
STATION 1250+85.00
STRUCTURE NO. 038-2015



98-75/036-2015/10/8.dgn