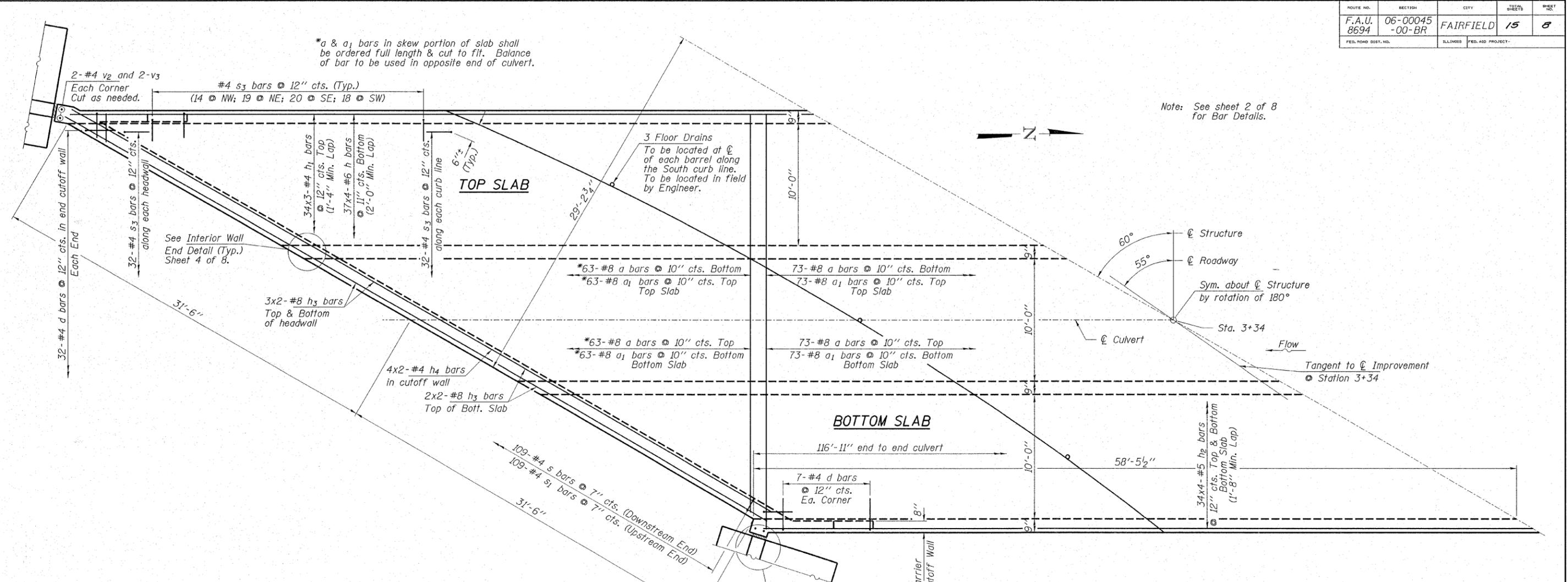


ROUTE NO. F.A.U. 8694	SECTION 06-00045 -00-BR	CITY FAIRFIELD	SHEET 15	SHEET 8
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



Note: See sheet 2 of 8 for Bar Details.

HALF PLAN

GENERAL NOTES

Exposed edges shall be beveled 3/4".

Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 (IL Modified.) See Special Provisions.

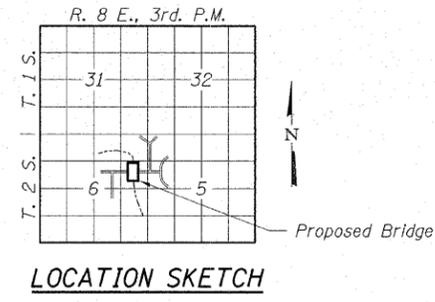
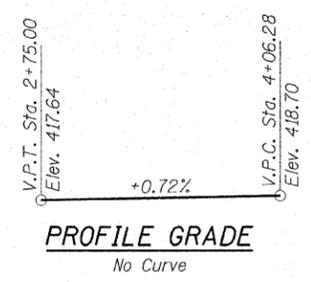
Bars indicated thus 31x2-#5 etc. indicates 31 lines of bars with 2 lengths per line.

All construction joints shall be bonded.

Precast concrete box culverts will not be allowed.

See sheets 8 of 8 for borings.

Roadway surface (30' width) shall receive broomed finish.



JOHNSON CREEK
BUILT 200_ BY
CITY OF FAIRFIELD
WAYNE COUNTY
SEC. 06-00045-00-BR
STR. NO. 096-6011
LOADING HS 20

NAME PLATE
See Hwy. Std. 515001

SUMMARY OF QUANTITIES

Removal of Existing Structures	Each	1
Floor Drains	Each	3
Reinforcement Bars, Epoxy Coated	Pound	89,900
Aluminum Railing	Foot	198
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	414.4

LOADING HS 20-44

DESIGN STRESSES

f'_c = 3,500 psi

f_y = 60,000 psi (Reinf.)

Max. Soil Pressure under footing = 2,400 p.s.f.

DESIGN SPECIFICATIONS

2002 AASHTO and all applicable interims

WATERWAY DATA

Drainage Area	195 Sq. Mi.
Existing Opening (30 yr)	198 Sq. Ft.
Req'd Opening (30 yr)	228 Sq. Ft.
Proposed Opening (30 yr)	228 Sq. Ft.
Design Discharge (30 yr)	996 C.F.S.
Created Head (30 yr)	0.4 Ft.
100 Yr. Discharge	1,331 C.F.S.
100 Yr. Created Head	0.5 Ft.

DESIGN HIGHWATER

30 YR. H.W.E. = 416.3

100 YR. H.W.E. = 417.2

I certify that to the best of my knowledge, information and belief, this culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO Standard Specifications for Highway Bridges".

Steven W. Megginson 3/20/07

ILLINOIS STRUCTURAL NO. 081-6064



HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

ILR

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-97-0008-1 DATE: 03/20/07
DESIGNED: S.M.S. CHECKED: S.W.M. DRAWN: D.A.B.

CULVERT DETAILS

SECTION 06-00045-00-BR

CITY OF FAIRFIELD

F.A.U. 8694 / WASHINGTON STREET

STRUCTURE NO. 096-6011 / STATION 3+34