F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
59	*	WILL	608	384
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

* (26, 26HB-1 & 114) R-2
CONTRACT NO. 60363

BENCHMARKS:

TBM#4 Square cut on northern end of concrete floor of box culvert end section located on the east side of IL 59. El. 576.00.

EXISTING STRUCTURE:

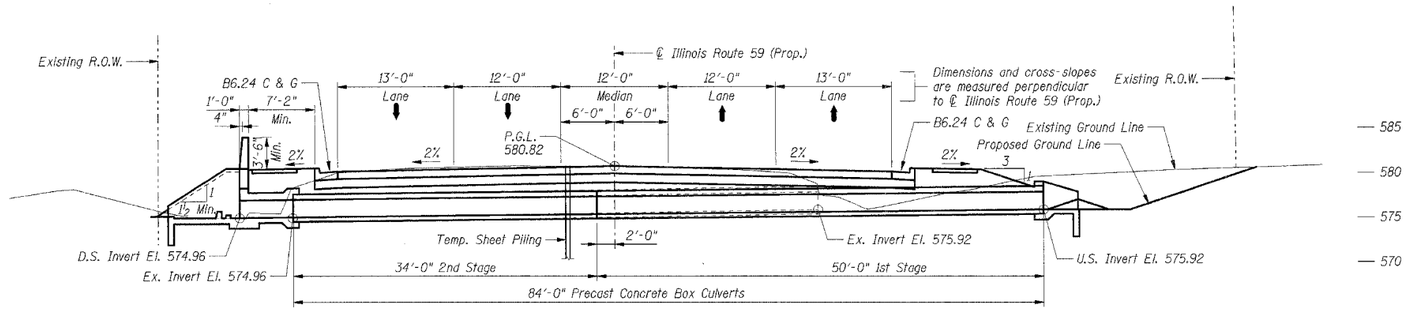
Single 4'x2' x 69' (Approx.) long concrete box culvert. Route/ Section and date built are unknown.

SALVAGE:

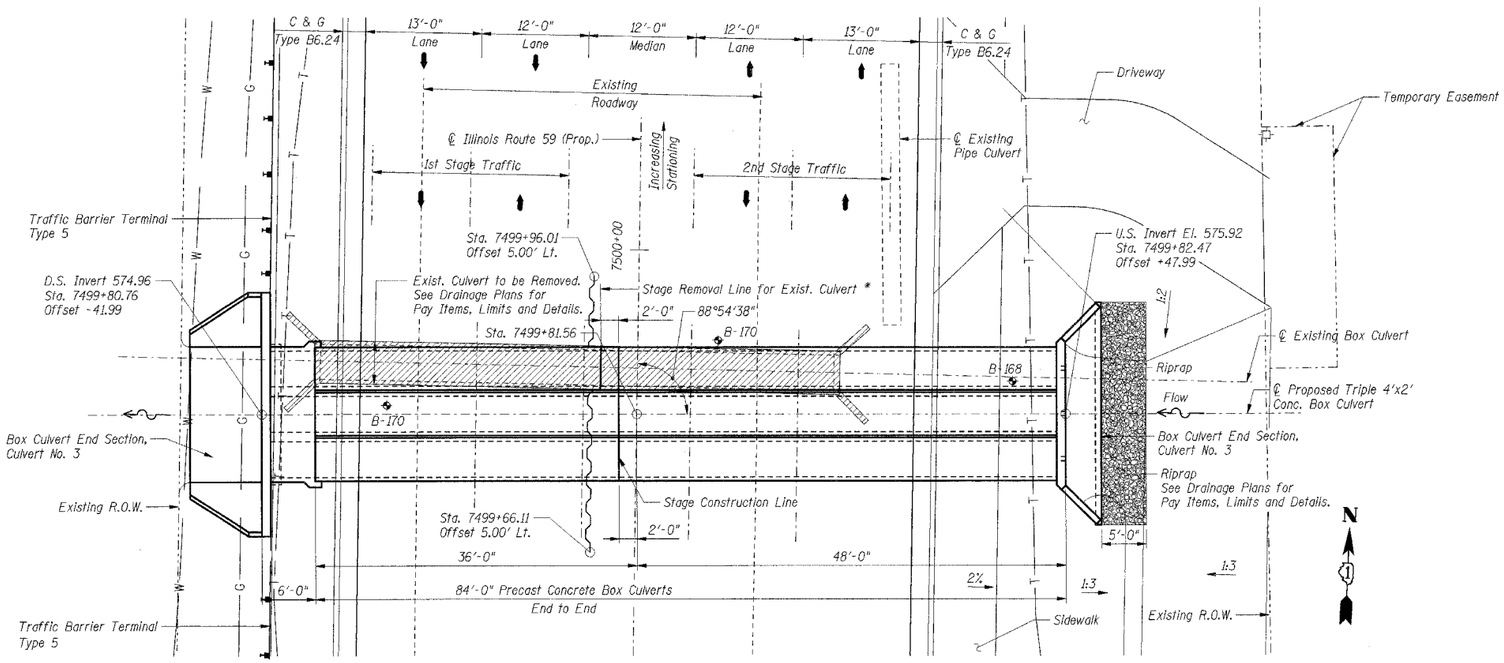
None.

STAGING:

Traffic to be maintained utilizing Standard 701606.

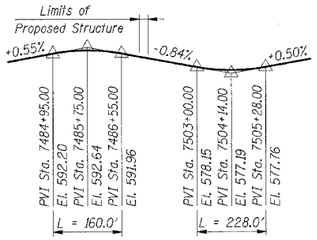


LONGITUDINAL SECTION



* Existing culvert shall be maintained during construction for interim drainage.

PLAN - CULVERT NO. 3



PROFILE GRADE ILLINOIS ROUTE 59

(Along ℄ Roadway)

INDEX OF SHEETS

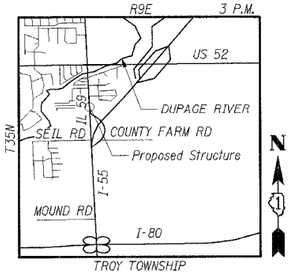
BCC-1	GENERAL PLAN AND ELEVATION
BCC-2	BOX CULVERT END SECTIONS 1
BCC-3	BOX CULVERT END SECTIONS 2; DETAIL I
BCC-4	BOX CULVERT END SECTIONS 2; DETAIL II
BCC-5	SOIL BORING LOGS

TOTAL BILL OF MATERIAL

DESCRIPTION	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	74
Box Culvert End Section, Culvert No. 3	Each	2
Precast Concrete Box Culvert 4' X 2' (M273)	Ft.	252
Temporary Sheet Piling	Sq. Ft.	120

LEGEND

- Soil Boring Location
- Exist. Telephone Line
- Exist. Gas Line
- Exist. Water Line
- Exist. Electrical Pole
- Exist. Sanitary Sewer
- Temp. Sheet Piling



LOCATION MAP

DESIGN SPECIFICATIONS:

2002 AASHTO Standard Specifications for Highway Bridges

DESIGN LOADING:

Roadway Live Load: HS20-44
Future Wearing Surface = 50 psf

DESIGN STRESSES:

Concrete f'c = 5,000 psi (Precast Box Culvert)
f'c = 3,500 psi (Other)
Reinforcement fy = 60,000 psi

GENERAL NOTES:

Cast-In-Place Concrete
All exposed concrete edges shall have a ¾" chamfer unless noted otherwise. Chamfer on vertical edges shall be continued a minimum of one foot below finished ground level.

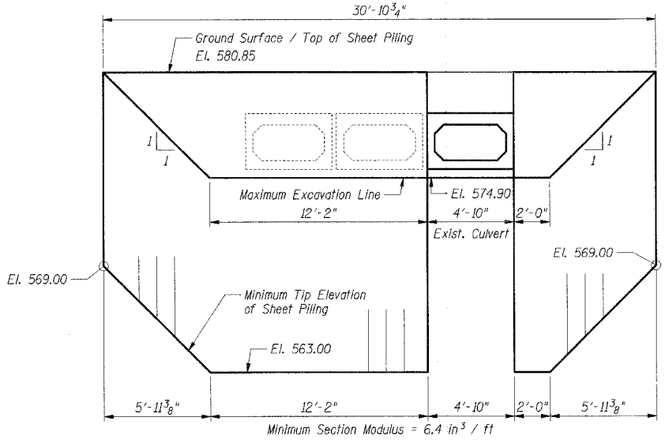
Reinforcement Bars
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

Construction
For backfilling and embankment, see Standard Specifications.

Precast Box Culvert sections shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of AASHTO M 273.

Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.

All construction joints shall be bonded.



Minimum Section Modulus = 6.4 in^3 / ft

TEMPORARY SHEET PILING DETAIL

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

SHT.BCC-1 OF BCC-5

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 338 (ILLINOIS ROUTE 59)
IL ROUTE 59 TRIPLE BOX CULVERT
SECTION (26, 26HB-1 & 114) R-2
STRUCTURE NUMBER 099-0352
STATION 7499+81.56, WILL COUNTY

GENERAL PLAN AND ELEVATION

DRAWN BY: TMH
DATE: 03/14/08 CHECKED BY:

TENG
TENG & ASSOCIATES, INC.
ENGINEERS AND CONSTRUCTION PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312/616-1620

DATE 4/10/2008
EXP. 11/30/2008

..\TIEBOOR4.DGN, ..\ROWSOR0H.DGN, ..\GPEOORUR.DGN, ..\ALTOOR46.DGN, ..\SUBOORL1.DGN, ..\ROWSOR00.DGN, ..\SUBOORL.DGN, ..\ROWSOR00.DGN, ..\DRAOOCRP0.DGN, ..\DRAOORPK.DGN, ..\UTLOOROP.DGN, ..\BOLOORLL.DGN, ..\TSLOORTF.DGN, ..\BXCOOS12.DGN, ..\BXCOOS2.DGN, ..\ALTOOR46.DGN, ..\SUBOORL1.DGN, ..\ROWSOR00.DGN, ..\SUBOORL.DGN, ..\ROWSOR00.DGN, ..\DRAOOCRP0.DGN, ..\DRAOORPK.DGN, ..\UTLOOROP.DGN, ..\BOLOORLL.DGN,
4-10-2008, 15:26:59 T:\DOCUMENT\932700\STRUCT\DGN\BXCOOSK2.DGN BAUERHMD
pen table: N/A color table: K:\STANDARD\TENG-DATA\COLORTABLE.TBL