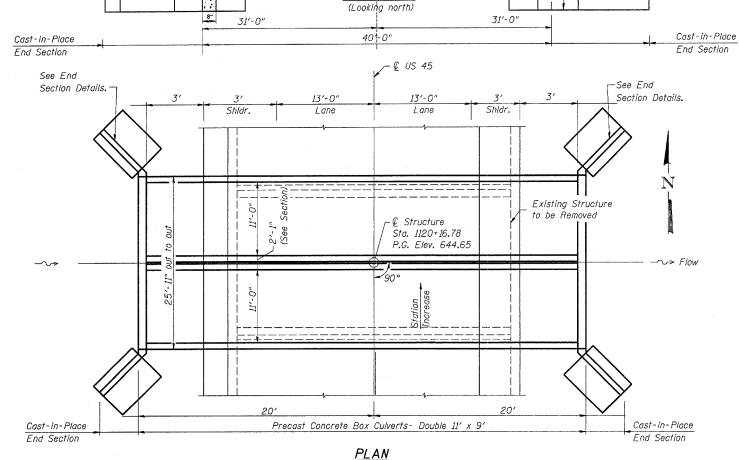


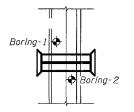
ELEV. 633,00-



WATERWAY INFORMATION

WATERWAY IN ORDINATION									
Drainage Are	a = 3.18	2 sq. mi	. Low C	Grade Ele	v. 644.	18 🛭 St	a. 1121+		
Flood	Freq.	a	Opening Sq. Ft.		Nat.	Nat. Head - Ft.		Headwater El	
	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
	10	330	77	139	639.3	0.3	0.2	639.6	639.4
Design	50	484	105	165	640.5	0.5	0.4	641.0	640.9
Base	100	545	115	174	640.9	0.5	0.5	641.4	641.4
Overtopping									
Max. Calc.	500	688	134	191	641.7	0.8	0.8	642.5	642.5

Prop. Low Grade El. = 644.48 © Sta. 1121+50. 10-year velocity through exist. strct. = 4.0 fps 10-year velocity through prop. struct. = 2.40 fps



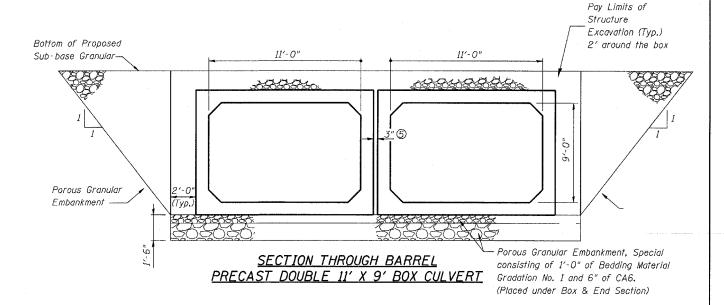
3" Drains (Typ. each wall)

642.69

-- Elev. 632.85

ELEVATION

BORING LOCATIONS LOCATION SKETCH



GENERAL NOTES

- ① Precast Concrete Box Culvert sections shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of AASHTO M 273.
- @ Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.
 Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.
- ⑤ Fill space between boxes with class SI Concrete in accordance with Article 540.06 of the Standard Specifications. Cost included with Precast Concrete Box Culvert II'x9' (M273).
- © Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage 1 removal to ensure the remaining portion will not be prematurely damaged.

DESIGN SPECIFICATIONS

-0.09%

+0.02%

125

Sta. 644

PROFILE GRADE (Along € Roadway)

3rd P.M.

SCALE:

Range 14W

1996 AASHTO with 1997 thru 2002 Interims

LOADING HS20-44

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

Design Fill Height = <2 ft.

DESIGN STRESSES

Precast f'c = 3500 psi fy = 65,000 psi (welded wire fabric) Cast - In - Place f'c = 3,500 psi fy = 60,000 psi (reinforcement)

Max. Soil Pressure under footing = 2466 psf

BILL OF MATERIAL

Item	Unit	Total
Porous Granular Embankment	Cu. Yd.	206.4
Porous Granular Embankment, Special	Cu. Yd.	70.9
Removal of Existing Structures	L. Sum	1
Structure Excavation	Cu. Yd.	358
Concrete Structures	Cu. Yd.	43.6
Reinforcement Bars	Pound	3082
Pedestrian Bridge Removal	Each"	1
Precast Concrete Box Culvert 11'x9' (M273)	Foot	80
Name Plates	Each	1
Reinforcement Bars (Epoxy Coated)	Pound	1001

GENERAL PLAN US45 OVER PRAIRIE CREEK FAS ROUTE 317 - SECTION 36BR IROQUOIS COUNTY STATION 1120+16.78 PROP. S.N. 038-2017

FILE NAME =	USER NAME = fergusonsa	DESIGNED ~	REVISED -
c:\projects\ed03806\sheets.dgn		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 '/ IN.	CHECKED -	REVISED -
	PLOT DATE = Det 31 2007 - 03:53:17 PM	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	C	ULV	ERT S	SHEET	•	317	
						STA.11	17+00
SHEET	NO.	OF	SHEETS	STA.	TO STA.	FED. RO	AD DIS

COUNTY TOTAL SHEET NO.
IROQUOIS 29 13 SECTION 36 BR TO STA.1123+00 CONTRACT NO. 66646 T. NO. ILLINOIS FED. AID PROJECT