<u>PLAN</u>

A = Sta. 2372+87/86' RT.

B = Sta. 2373+31/86' RT.

£ Existing & Proposed

Structure Sta. 2372+90.00

· & F.A.P. 338 (U.S. 45)

Existing Low Grade Elev. 754.94 © Sta. 2372+00  Drainage Area = 6.25 Sq. Mi. Proposed Low Grade Elev. 758.00 © Sta. 2372+00									
F1 1	Freq.	Q	Opening	Sq. Ft.	Nat.	*Head	- Ft.	Headwo	iter El.
Flood	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
	10	570	91	117	752.60	2.00	1.40	754.60	754.00
Design	50	836	103	129	753.20	3.10	2.50	756.30	755.70
Base	100	943	108	133	753.41	3.40	3.10	756.80	756.50
Overtopping (exist.)	25	700	99		752.92	2.50		755.40	
Overtopping (prop.)	300	1135		140	753.76		4.30		758.10
Max. Calc.	300	1135		140	753.76		4.30		758.10

\*Gross Area Openina = 180 sa. ft. Taken from the section with the

ITEM	UNIT	TOTAL
Removal and Disposal of Unsuitable Material	Cu Yd	213
Porous Granular Embankment, Special	Cu Yd	159
Stone Riprap, Class A4	Sq Yd	395
Filter Fabric	Sq Yd	395
Removal Of Existing Structures	Each	1
Reinforcement Bars	Pound	9890
Reinforcement Bars, Epoxy Coated	Pound	680
Name Plates	Each	1
Concrete Box Culverts	Cu Yd	81.5
Precast Concrete Box Culvert 10' x 9' (M273)	Foot	80

- be subject to the approval of the Engineer and the cost shall be included with the cost of

- in the field by the Engineer.

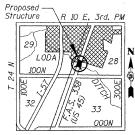
  15.) The pay item "Porous Granular Embankment, Special" shall include the placement of CA-1 and CA-7 below the structure for a width of 27'-7" within the limits of the toe walls as shown on the plans. The actual amount shall be determined in the field by the Engineer.
- The Contractor shall reshape the channel within the Right-Of-Way in order to facilitate drainage and the placement of riprap as directed by the Engineer. The cost of reshap the channel shall be included in the cost of "Removal of Existing Structures". 17.) Excavation behind existing abutment walls shall be performed to balance front
  - and back soil pressure before removing the existing superstructure.

SECTION COUNTY TOTAL SHEE SHEETS NO. 338 IROQUOIS 27 STA. TO STA.

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

SHEET NO. BI OF 10 SHEETS

CONTRACT NO. 66717



<u>LOCATION SKETCH</u>

# DESIGN SPECIFICATIONS

AASHTO 2002

# DESIGN STRESSES

FIELD UNITS = 3,500 psi (Cast-In-Place) = 60,000 psi (Reinforcement)

PRECAST UNITS f'c = 5,000 psi (Precast) fy = 60,000 psi (Reinforcement)

### fy = 65,000 psi (Welded Wire Fabric) LOADING HS20-44

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

STATION 2372+90.00 BUTLT 200 BY STATE OF ILLINOIS A.P. RTE. 338 SECTION 33 BR LOADING HS20 STR. NO. 038-2018

## NAME PLATE

See Standard 515001

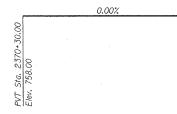
### INDEX TO SHEETS

## TITLE

GENERAL PLAN AND ELEVATION
DOUBLE BOX CULVERT LONGITUDINAL SECTION, PRECAST
CONCRETE CULVERT SECTION AND DETAILS
CAST-IN-PLACE CONCRETE CULVERT SECTION, DETAILS

AND BILL OF MATERIAL
CAST-IN-PLACE CONCRETE CULVERT TOP SLAB PLANS
AND SECTIONS
CAST-IN-PLACE CONCRETE CULVERT BOTTOM SLAB PLANS

EXISTING PLANS



PROFILE GRADE (Along ⊈ Roadway)

#### NOTES:

- \*Confirm slab and wall thickness with Precaster. B.O.F. denotes Bottom Of Footing.
- P.G.L. denotes Profile Grade Line.

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REVISIONS

ILLINOIS DEPARTMENT OF TRANSPORTATION GENERAL PLAN AND ELEVATION

F.A.P. 338 (US 45) OVER A DITCH SECTION 33 BR-1 IROQUOIS COUNTY STATION 2372+90.00 STRUCTURE NO. 038-2018

STGNED BY: JML

DRAWN BY: D.IM

CAST-IN-PLACE CONCRETE WINGWALLS
SOIL BORING LOGS

Mach & Wylie Date 12/7/07 MARK S. WYLIE
ILLINOIS STRUCTURAL ENGINEER
NO. 081-005002
Exp. Date 11/30/08

SHEET NO.

B3

*B*5

B8-B10

C Culvert

SPBGR attached to -

-Cast-In-Place Concrete

Wingwall (typ.)

structure (tvp.,

Flow

Stone Riprap Class A4

shall extend to face

of railroad structure

Location