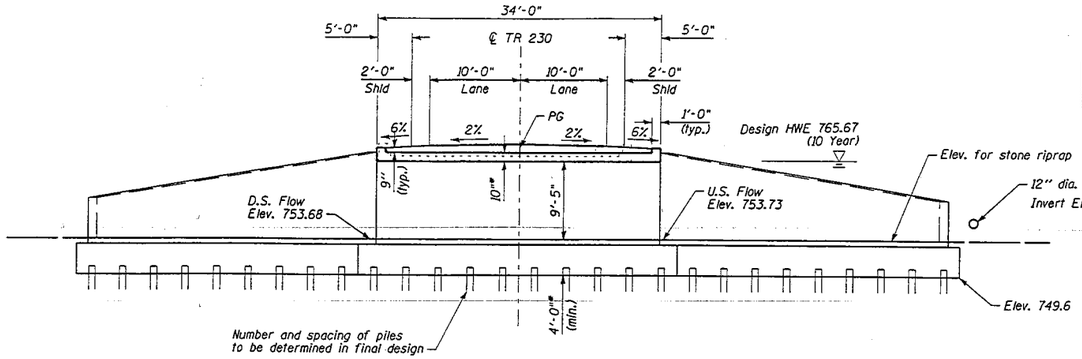
Bench Mark: Survey marker. Sta 3078+00 US Route 30. 45' left. Elev. 764.78

Existing Structure: 052-0041. Built in 1938 as FA 141. Section 114Br-1 at Station 3076+36 as a single span R.C. slab bridge. 28'-0" bk. to bk. abutments and 33'-0" out to out. Existing bridge is to be removed as required for installation of three-sided structure. Traffic is to be detoured during construction.

No Salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



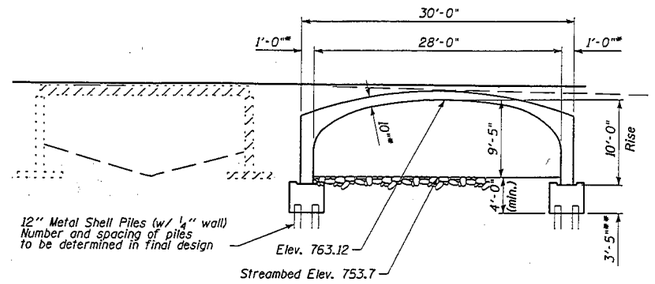
LONGITUDINAL SECTION

Looking North at ℄ of Structure

*Slab and wall thicknesses may vary as per maufacturer's design.

DESIGN SCOUR TABLE

Design Scour Elevation (ft.)	D.S. Invert	U.S. Invert
	749.7	749.7



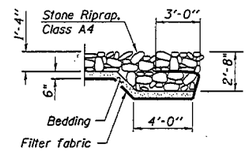
* Slab and wall thicknesses may vary as per maufacturer's design.

** Subject to refinement during final design.

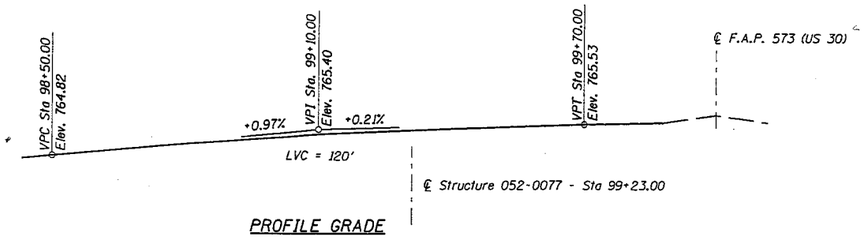
Indicates portions of existing structure to be removed.

SECTION THROUGH STRUCTURE

Horizontal Dimensions @ Rt. Ls. to ℄ of Structure (Looking Upstream - Downstream End Only)

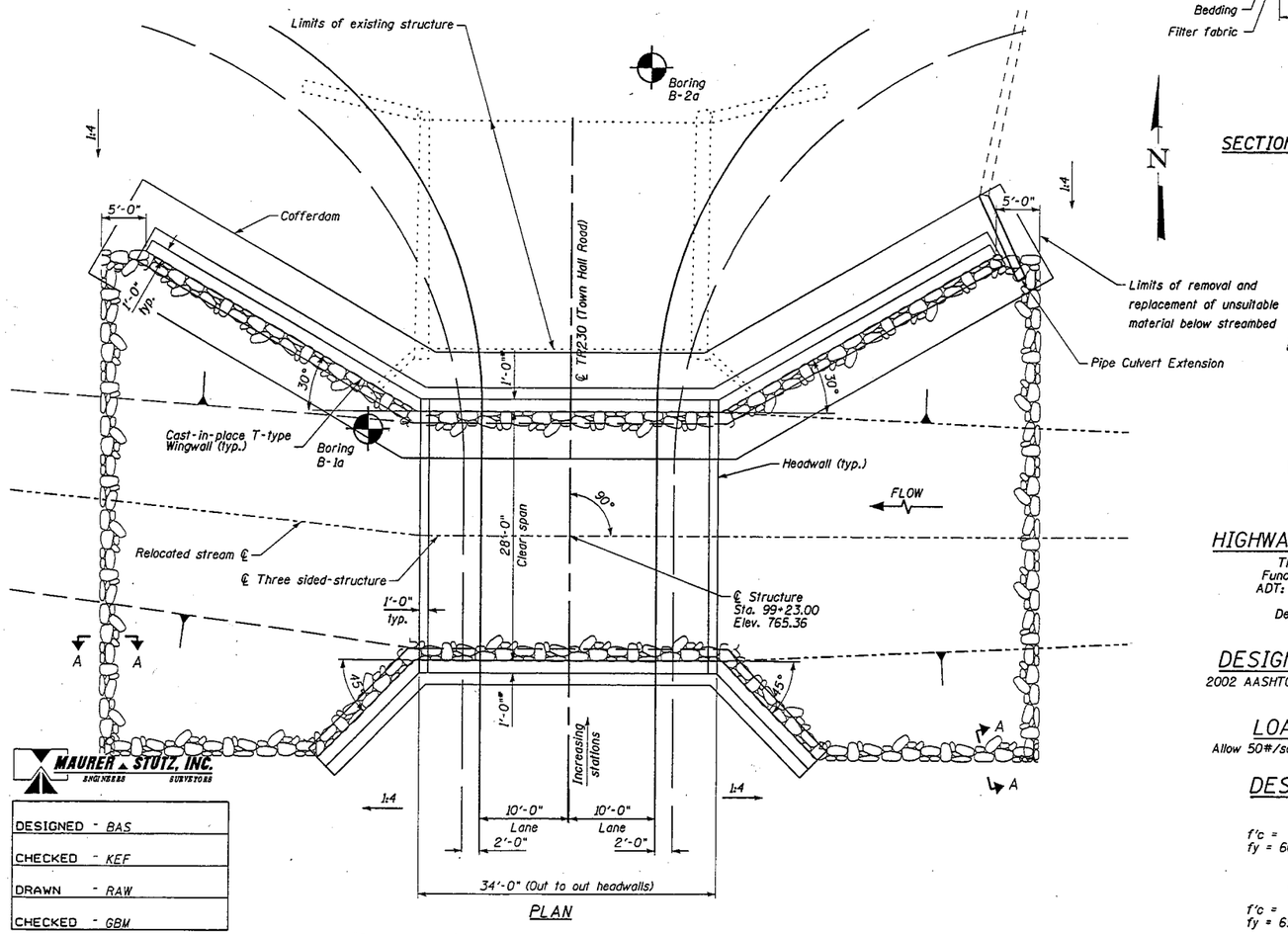


SECTION A-A



PROFILE GRADE

TR 230 - Town Hall Road (Along ℄ of Roadway)



PLAN

*Slab and wall thicknesses may vary as per maufacturer's design.

MAURER & STUTZ, INC. ENGINEERS SURVEYORS

DESIGNED	BAS
CHECKED	KEF
DRAWN	RAW
CHECKED	GBM

APPROVED

NOV 1 2 2008

AS A BASIS FOR PREPARATION OF DETAILED PLANS

HIGHWAY CLASSIFICATION

TR230 (Town Hall Road)
Functional Class: Local Road
ADT: 79 (2008); 100 (2028)
DHV: 5 (2028)
Design Speed: 35 m.p.h.
Posted Speed: None

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications, 17th Ed.

LOADING HS20-44

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

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (reinforcement)

PRECAST UNITS

f'c = 5,000 psi
fy = 65,000 psi (welded wire fabric)

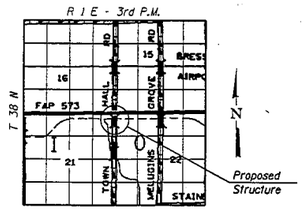
WATERWAY INFORMATION

Drainage Area = 2.45 sq. mi.

Existing Low Grade Elev. 763.32 @ Sta. 97+50
Proposed Low Grade Elev. 763.38 @ Sta. 97+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E. Exist.	Nat. H.W.E. Prop.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Five-Year	5	541	208	234	764.43	764.39	0.04	0.08	764.47	764.47
Channel Full	8	650	208	234	765.38	765.33	0.08	0.11	765.46	765.44
Max	10	713	208	234	765.70	765.67	0.13	0.09	765.83	765.76

10-year velocity through existing structure = 2.9 fps
10-year velocity through proposed structure = 2.3 fps



LOCATION SKETCH

GENERAL PLAN

TR 230 (TOWN HALL ROAD) OVER UNNAMED DRAINAGE DITCH STATION 99+23.00

SHEET NO. 1	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1 SHEETS	230	(114-1)BR-2	LEE		
	STRUCTURE NO. 052-0077		CONTRACT NO. 64B39		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		