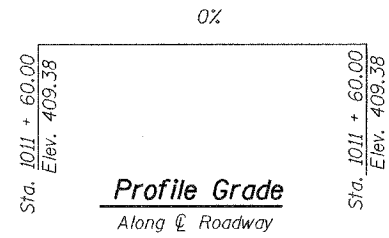


BENCHMARK: ELEV. = 408.775 Cut square on the southwest wingwall of the existing structure SN 096-0057

EXISTING STRUCTURE: S.N. 096-0057 Was originally constructed in 1918 under SBI-15, Section 17C as a single span slab superstructure on closed abutments supported by spread footings. The length of the existing structure is 20'-0" and the width is 22'-0" out to out. The existing structure is not skewed and is to be completely removed and replaced. The road will be temporarily closed during construction. No salvage.



Profile Grade
Along ϕ Roadway

STATION 1011+86
BUILT 200 BY
STATE OF ILLINOIS
S.B.I. RT. 15B SEC. (17C)B
LOADING HS20
STR. NO. 096-2009

NAME PLATE

See Std. 515001
Index of Sheets

1. General Plan and Elevation
2. Riprap Details
3. & 4. Box Culvert End Section Details
5. Bar Splicer Assembly Details
6. Boring Logs

DESIGN SPECIFICATIONS

2002 AASHTO

LOADING HS20-44

Allow 50*/sq.ft for future wearing surface

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
 f_y = 60,000 psi (reinforcement)
 f_y = 65,000 psi (welded wire fabric)

PRECAST UNITS

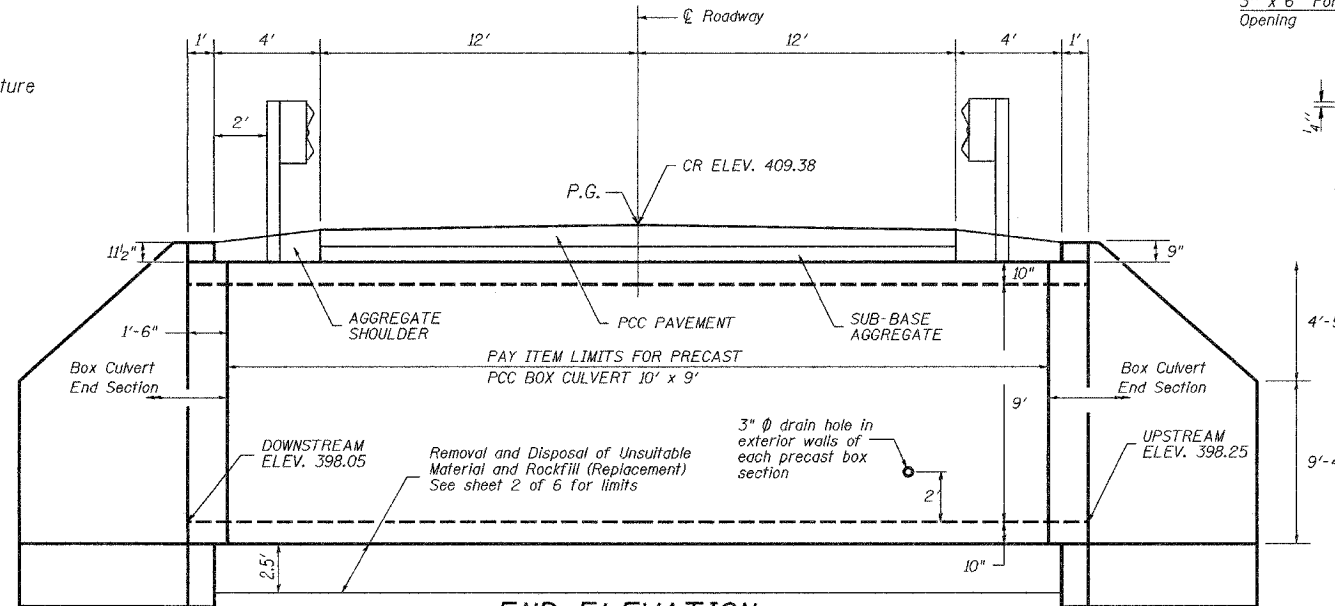
f'_c = 5,000 psi
 f_y = 65,000 psi (welded wire fabric)



Expires 11-30-08

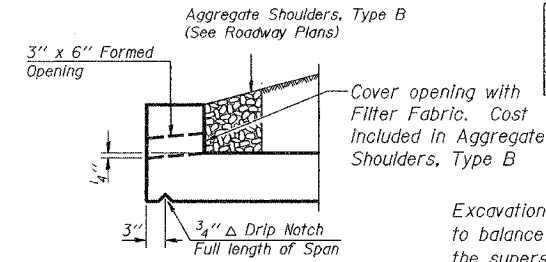
DESIGNED	D. Greifzu
CHECKED	S. Ryan
DRAWN	D. Greifzu
CHECKED	S. Ryan

October 10, 2007
EXAMINED
PASSED
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

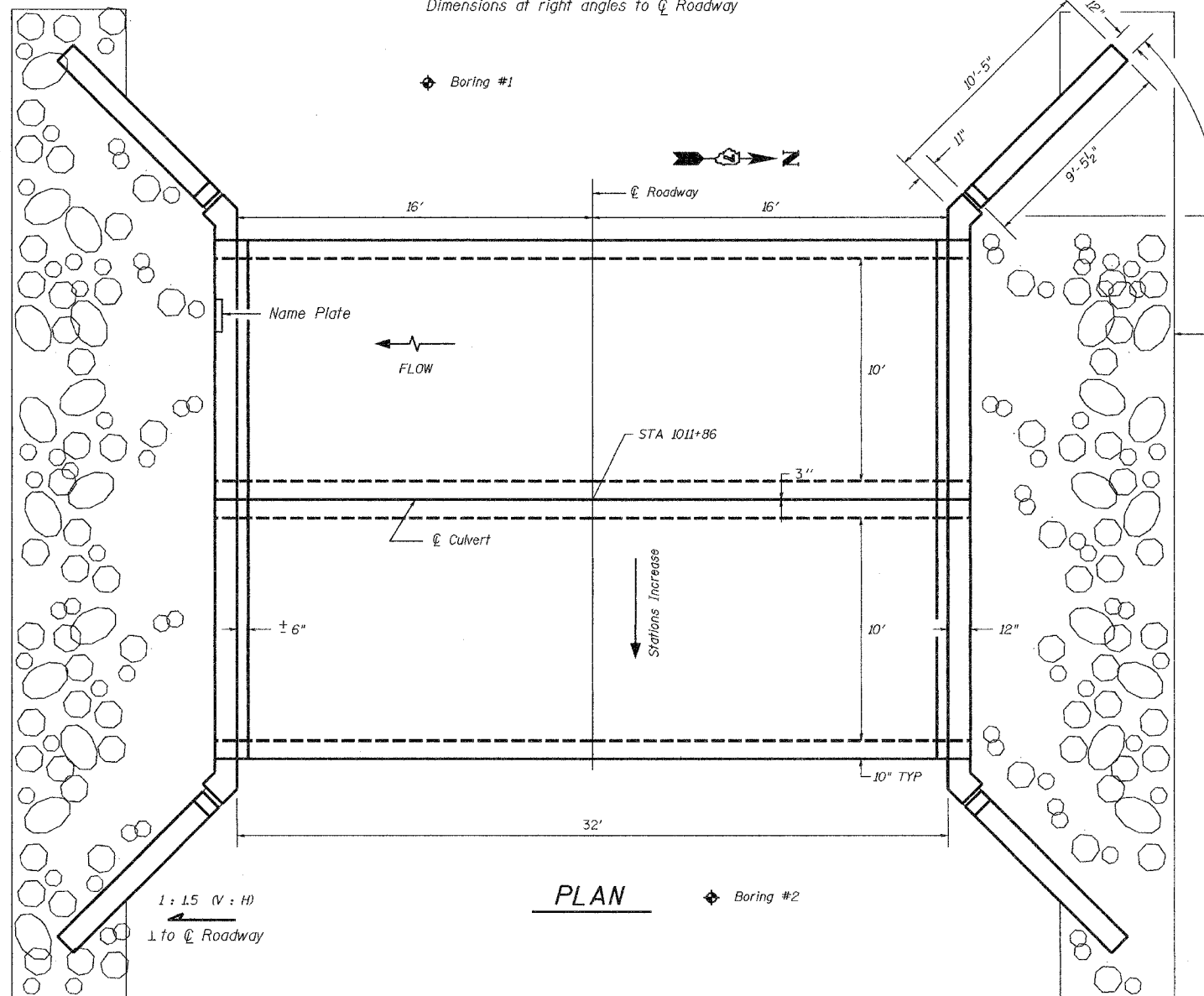


END ELEVATION

Dimensions at right angles to ϕ Roadway



DRAIN DETAIL



PLAN

Boring #2

ROUTE 15B	SECTION (17C)B	COUNTY WAYNE	TOTAL SHEETS 17	SHEET NO. 7	SHEET NO. 1
					6 SHEET

CONTRACT NO. 74092

General Notes

Excavation behind abutment walls shall be performed to balance front and back soil pressure before removing the superstructure.

Build tops of headwalls parallel to profile grade.

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

The design fill height for the precast boxes is less than 2 feet.

The welded wire fabric extending from the outside face of the vertical walls of the precast box sections shall be 2x3 W4.5 x W4.0 or equivalent. Substitution of reinforcement bar for welded wire fabric is not allowed.

For End Section only, 1/2" cover unless otherwise noted.

The ends of the the precast box sections adjacent to the end section shall be formed without the male and female shapes specified in Article 8.1 of AASHTO M273. See Section D-D on sheet 4 of 6.

All portions of the precast box culverts in contact with cast-in-place concrete shall be sandblasted according to Article 503.09(b).

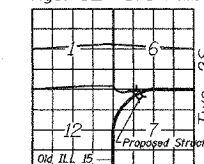
The box culvert end section shall be built in the field and a precast option is not allowed except the cut-off wall may be precast. If the contractor elects to use a precast cut-off wall, shop drawings and a proposed construction sequence shall be submitted to the Engineer for approval.

The joints between precast box sections shall be sealed and all void filled with a mastic joint sealer. In addition, the joints shall be externally sealed on all four sides with a 13 inch wide external sealing band. The seal shall be centered over the joint, secured in place and protected during the backfilling process.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures	Each	1
Removal and Disposal of Unsuitable Material	Cu. Yd.	100
Rockfill (Replacement)	Ton	246
Precast Concrete Box Culverts 10' x 9'	Foot	62
Box Culvert End Sections (Special)	Each	2
Name Plates	Each	1
Stone Riprap, Class A4	Sq. Yd.	94
Filter Fabric	Sq. Yd.	142
Porous Granular Embankment	Cu. Yd.	250

Rge. 6E 3rd P.M.



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
DOUBLE 10'x9' PRECAST BOX CULVERT
SBI ROUTE 15B - SECTION (17C)B
WAYNE COUNTY
STATION 1011+86.00
STRUCTURE NO. 096-2009