

EXISTING STRUCTURE:

S.N. 060-0270. Original structure is a simple open-span structure, 16' wide, reinforced concrete slab deck supported by concrete abutments, built prior to 1911. The original structure was widened to 20' in 1911 under FA Section P-15d and widened again with a double box culvert, with two 10' x 10' cells on each side in 1931 under SBI 11 Section 47-B. Existing structure will be removed and replaced with a cast-in-place double box culvert with two 11' x 11' cells. The existing road will be closed to through traffic during construction and detours provided.

Salvage: No salvage.

STRUCTURAL NOTES:

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

All construction joints shall be bonded.

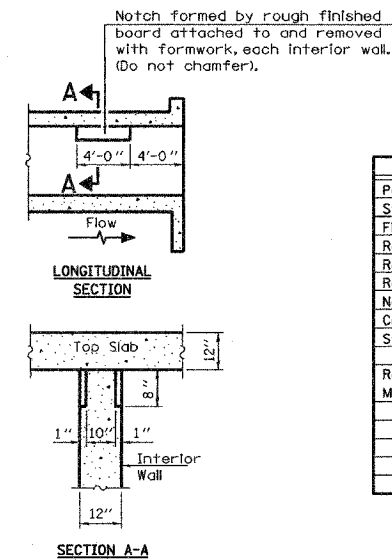
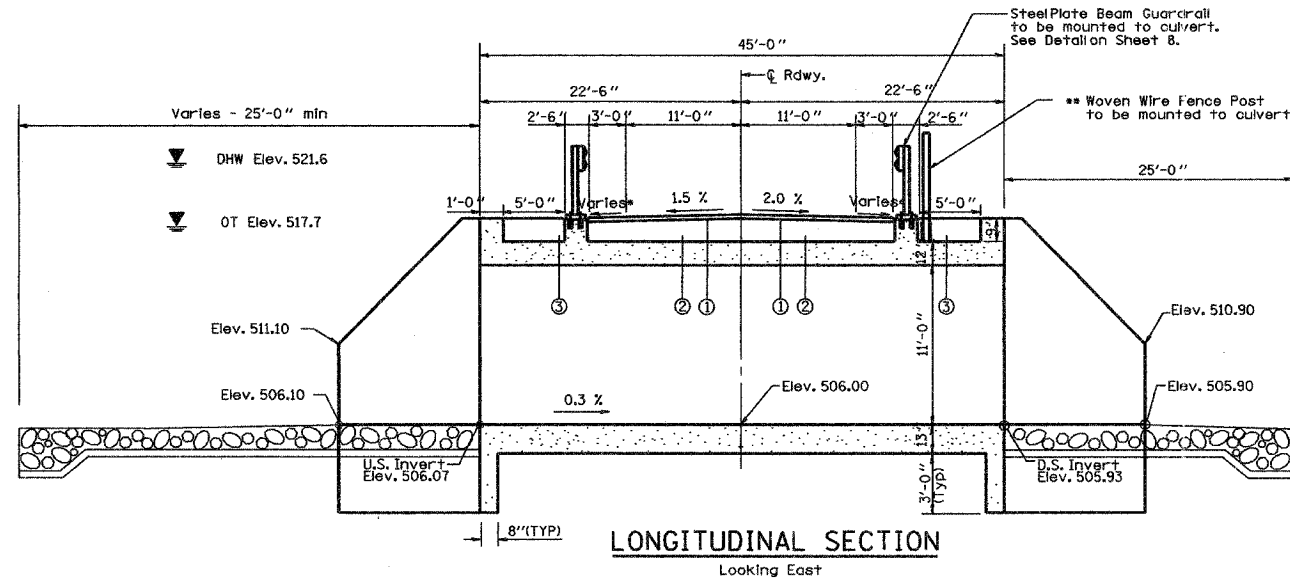
Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.

Precast alternate is not allowed.

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwall.

Excavation behind existing side walls shall be done before removing the existing top slab.

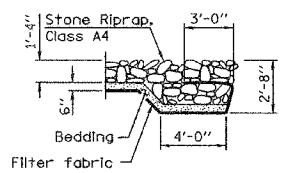
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	31BR	MADISON	11	6
STA. N/A	TO STA. N/A			
FED. ROAD DIST. NO. 8		ILLINOIS	FED. AID PROJECT	
Contract No. 76121				



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	CU YD	97
Stone Riprap, Class A4	SQ YD	450
Filter Fabric	SQ YD	450
Removal of Existing Structures	Each	1
Reinforcement Bars	Pound	31980
Reinforcement Bars, Epoxy Coated	Pound	430
Name Plates	Each	1
Concrete Box Culverts	CU YD	185.7
Steel Plate Beam Guardrail, Attached to Structures	Foot	50
Removal and Disposal of Unsuitable Material	CU YD	97

SECTION A-A PHOEBE NESTING SITE DETAILS (Downstream End Only)



Shoulder Slope varies from 2.0% to 4.0%

LEGEND

- ① Proposed Bituminous Concrete Surface Course
- ② Proposed Bituminous Concrete Binder Course
- ③ Proposed Aggregate Shoulders

LOADING HS20-44

ALLOW 50*/SQ. FT. FOR FUTURE WEARING SURFACE

DESIGN SPECIFICATIONS

1996 AASHTO WITH 1997 THROUGH 2002 INTERIMS

DESIGN STRESSES

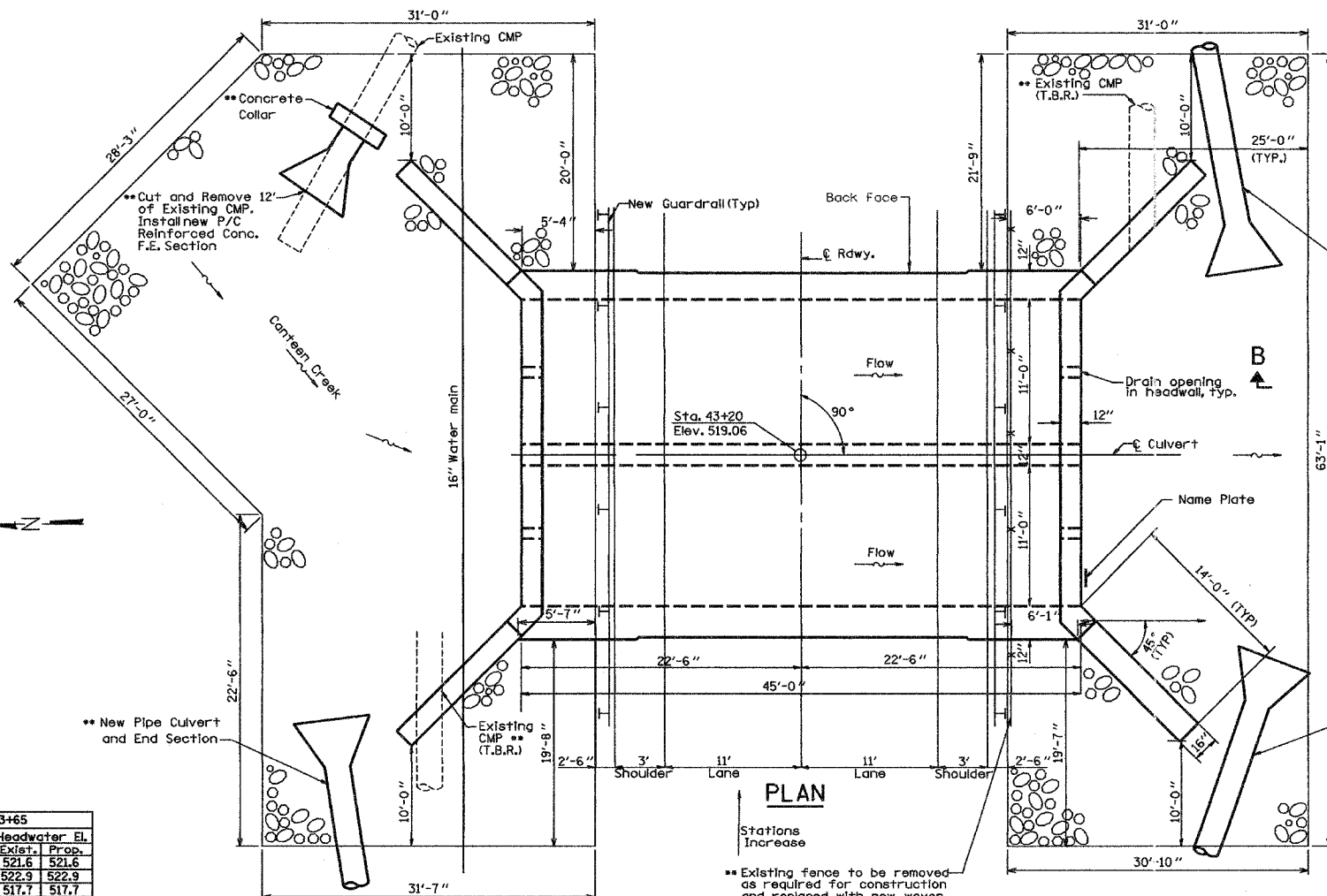
FIELD UNITS
 $f_c = 3,500$ psi
 $f_y = 60,000$ PSI (REINFORCEMENT)

CANTEEN CREEK
 BUILT 200 BY
 STATE OF ILLINOIS
 MADISON COUNTY
 SEC. 31BR
 STA. 43+20.00
 STR. NO. 060-2045 LOADING HS20-44

NAME PLATE
 See Std. 515001

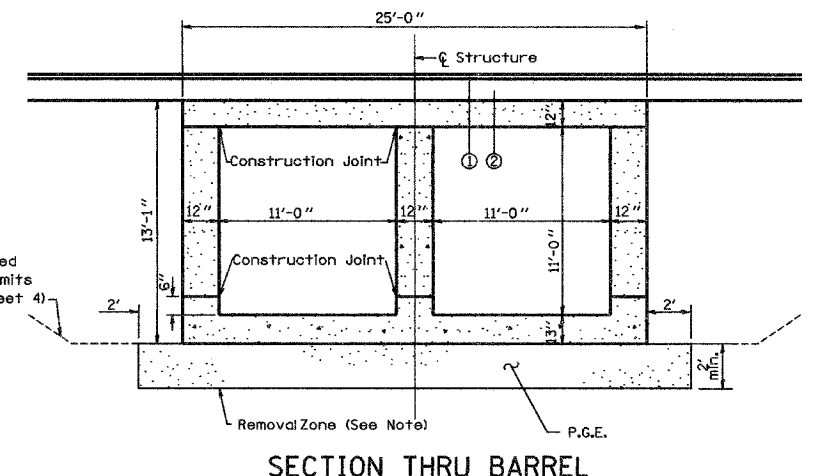
WATERWAY INFORMATION

Drainage Area = 4.08 sq. mi		Low Grade Elev. 518.5 @ Sta. 43+65	
Flood Yr.	Opening C.F.S.	Exst. Prop.	Natural H.W.E. Exst. Prop.
Design 50	732	200.0	242.0
Base 100	850	200.0	242.0
Overtopping 6	398	200.0	242.0
Max. Calc. 500	N/A	N/A	N/A



Existing fence to be removed as required for construction and replaced with new woven wire fence at same offset as existing fence

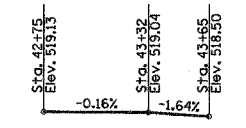
See roadway plans.



Note: Remove two feet of soil beneath the footprint of the box culvert. The footprint will extend two feet beyond the perimeter of the culvert. The contractor shall replace with Porous Granular Embankment. Excavation shall be paid for as Removal and Disposal of Unsuitable Material.

DESIGNED	EXAMINED
Tom Rantakari	200
Checked	ENGINEER OF BRIDGE DESIGN
Drawn	PASSED
Checked	ENGINEER OF BRIDGES AND STRUCTURES

PROFILE GRADE
 along roadway



EXPIRES 11-30-2006

Drawing Not to Scale

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT GENERAL PLAN
 STRUCTURE NO. 060-2045
 TR 336A
 SECTION 31BR
 MADISON COUNTY
 DRAWN BY
 CHECKED BY