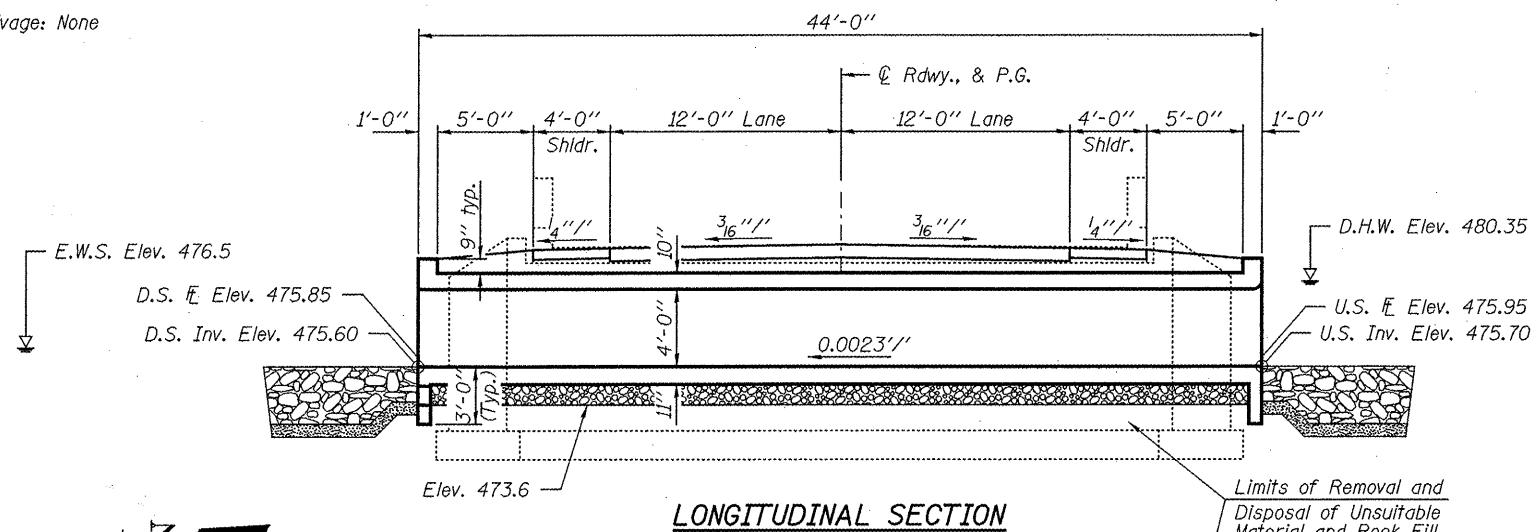


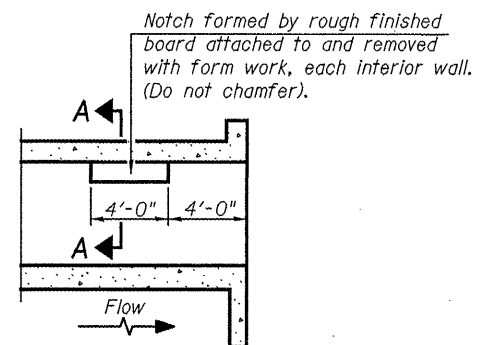
BENCHMARK: BM#102 - Chiseled "square" on S.E. wing SN 100-0065 18' Rt., Sta. 244+70, Elev. 481.01.

EXISTING STRUCTURE: SN 100-0065 was originally built in 1921 as SBI 13 Section 6B. The bridge is a one span RC slab on closed abutments. The structure is 18.0' bk.-bk. abutments and 32.0' o.-o. slab. The bridge will be removed and replaced using road closure. Traffic will be detoured during construction.

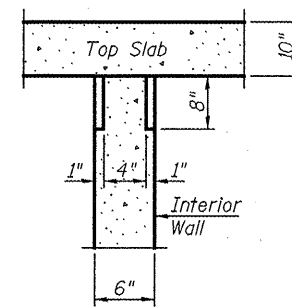
Salvage: None



LONGITUDINAL SECTION



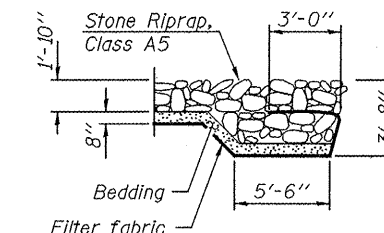
LONGITUDINAL SECTION



SECTION A-A

STA. 244+90.00
BUILT 2011 BY
STATE OF ILLINOIS
SBI ROUTE 13B SEC 6B-1
LOADING HS20
STRUCTURE NO. 100-2023

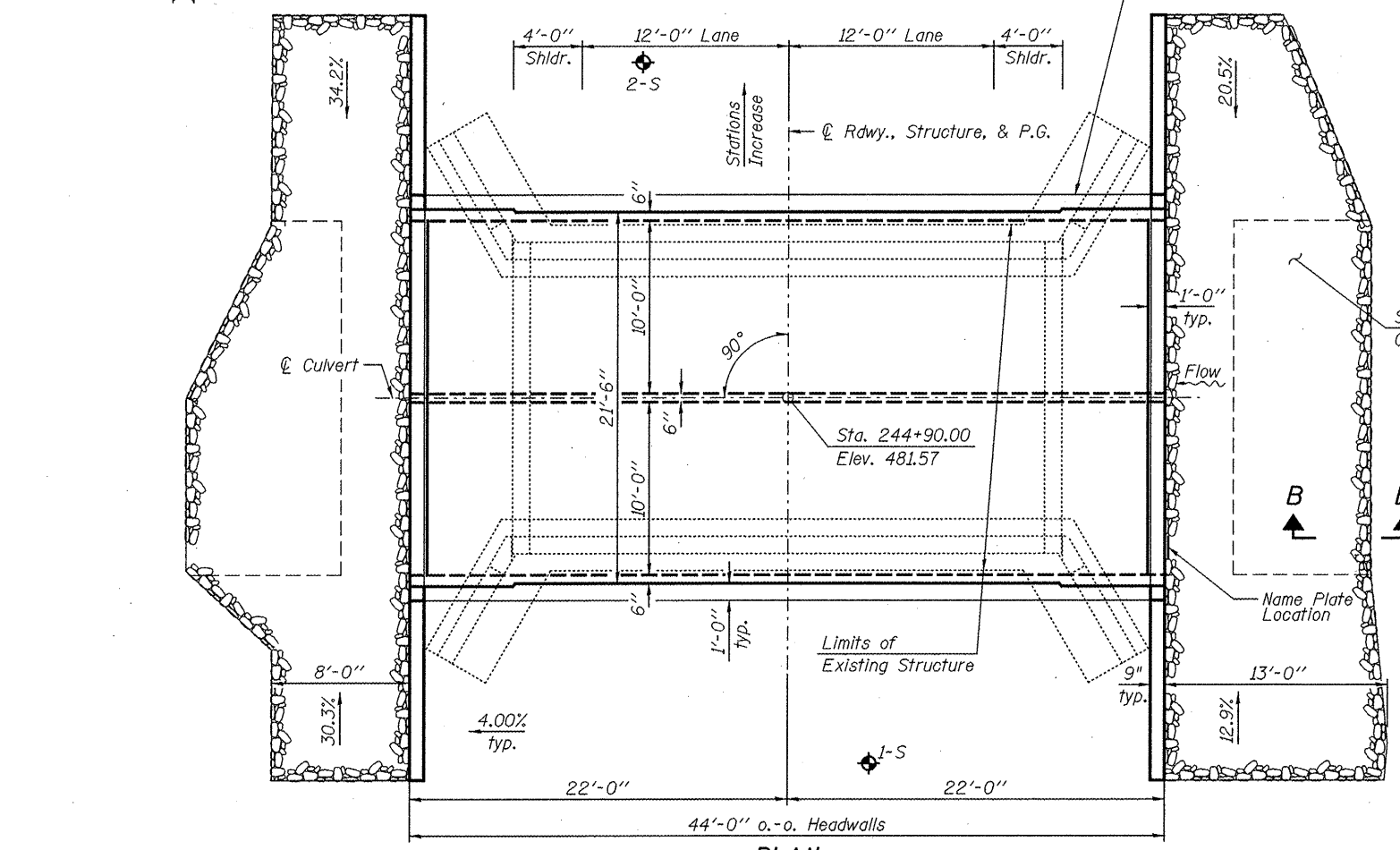
NAME PLATE
See Std. 515001



SECTION B-B

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. Reinforcement bars designated (E) shall be epoxy coated. Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. Precast alternate not allowed.



PLAN

APPROVED
For Structural Adequacy Only

PHOEBE NESTING
SITE DETAILS
(Downstream End Only)

Engineer of Bridges & Structures

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap Class A5	Sq. Yd.	109
Filter Fabric	Sq. Yd.	109
Removal of Existing Structures	Each	1
Reinforcement Bars, Epoxy Coated	Pound	19,390
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	85.9
Removal and Disposal of Unsuitable Material	Cu. Yd.	42
Rockfill - Foundation	Cu. Yd.	42

INDEX OF SHEETS

- General Plan
- Culvert Plan
- Culvert Details
- Boring Logs

DESIGN SPECIFICATIONS

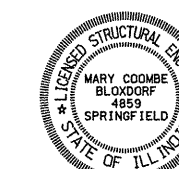
2002 AASHTO Standard Specifications for Highway Bridges

LOADING HS-20-44

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

DESIGN STRESSES

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf.)



ILLINOIS STRUCTURAL NO. 4859
EXPIRES 11/30/12
DATE: 12/23/11

GENERAL PLAN
OLD IL ROUTE 13
OVER BRANCH OF LITTLE CRAB ORCHARD CREEK
SBI ROUTE 13B - SECTION 6B-1
WILLIAMSON COUNTY
STATION 244+90.00
STRUCTURE NUMBER 100-2023

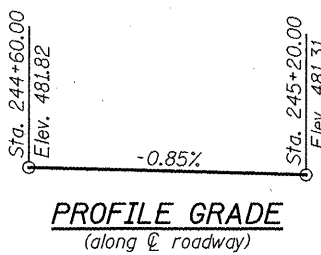
WATERWAY INFORMATION

Drainage Area = 0.26 Sq. Mi. Proposed Low Grade Elev. 479.4 @ Sta. 248+50

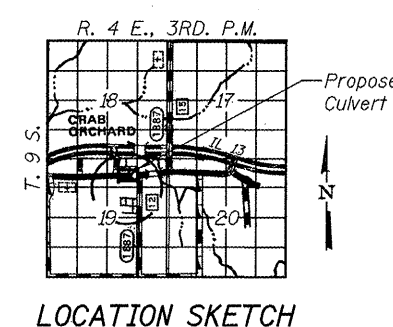
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.	
10	235	60	70	479.98	0.00	0.00	479.98	479.98		
Design	50	397	60	70	480.35	0.00	0.00	480.35	480.35	
Base	100	472	60	70	480.48	0.02	0.00	480.50	480.48	
Max. Calc.	500	667	60	70	480.74	0.09	0.00	480.83	480.74	

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Downstream	Upstream
		472.6



PROFILE GRADE
(along roadway)



LOCATION SKETCH

FILE NAME = ...1002023-78090-001-culvert.dgn	USER NAME = _CFC_	DESIGNED - GJB	REVISED -
PLOT SCALE = 2.0000' / IN.	PLOT DATE = 12/28/2011	CHECKED - MCB	REVISED -
		DRAWN - MML	REVISED -
		CHECKED - MCB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
STRUCTURE NO. 100-2023
SHEET NO. 1 OF 4 SHEETS

CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
13B	6B-1	WILLIAMSON	19	11

CONTRACT NO. 78090
ILLINOIS FED. AID PROJECT