

- 1. Plan dimensions and details relative to existing structure have been taken From existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- extend a minimum of 250 mm into new concrete.
- Reinforcement bars shall conform to the requirements of AASHTO M-31M or M-322M, Grade 400.
- 4. Reinforcement bars designated (E) shall be epoxy coated.
- 5. All dimensions are in millimeters (mm) except as noted.
- 6. Procast reinforced concrete box sections shall conform to AASHTO M-259M and M-273M.
- 7. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

#### DESIGN SPECIFICATIONS

2002 AASHTO Specifications

## DESIGN STRESSES (New Construction)

Field Units	Precast Units
f'c = 24 MPa	fć = 35 MPa
f <sub>y</sub> = 400 MPa (Reinf.)	f <sub>y</sub> = 450 MPa (Welded wire fabric)
ί <sub>ν</sub> = 250 MPa (Str. Steel)	

## LOADING MS18

Allow 1.2 kN/m² for future wearing surface

#### INDEX OF SHEETS

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DATE = 12/22/2008 NAME = H:\4420\Cor

PLOT FILE

(Box Culvert Nos. 8, 10, 11, 15, 16 & 17)



\* Non-standard size,

		CONTRA	CT NO.	94533
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
781	1YRS	CRAWFORD	212	94
STA.		TO STA.		
FED. ROA	D DIST. NO.	ILLINOIS FED	. AID PRO	DJECT

# TOTAL BILL OF MATERIAL

Item	Unit	Total	
Structures	CU. M.	3.9	
ement Bars, Epoxy Coated	kg	690	
Concrete Box Culvert (3000x1650)	т	10.9	
Concrete Box Culvert (900x600)	m	5.7	
Concrete Box Culvert (900x450)	m	10,0	
Concrete Box Culvert (600x600)	т	5.7	
Concrete Box Culvert (600x450)	m	15.1	
ert End Section, Culvert No. 8	Each	2	
erl End Section, Culvert No. 10	Each	2	
ert End Section, Culvert No. 11	Each	2	
ert End Section, Culvert No. 15	Each	2	
ert End Section, Culvert No. 16	Each	2	
ert End Section, Culvert No. 17	Each	2	
n Bolts (M20x250)	Each	161	
orap, Class A4	sq. m.	See Plans	
g & Erecting Structural Steel	kg	130	
il Repair of Concrete	sq. m.	2.5	
qual to or Less than 125mm)			
ack Injection	m	3.6	
Wodified Portland Cement Mortar	sq. m.	17.9	

			SHE	ET S1 OF 1	5
REVISIONS NAME DA		OIS DEPARTME	NT OF TRAN	ISPORTAT	ION NOI
LWJ 12-18		BOX CULVER NOTES &			No
	SCALE	NONE DECEMBER 10, 200	DRAWN I 6 CHECKEE		