

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 714		CHRISTIAN	94	57
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
		D-6 IL 48 IMPROVEMENT 2006		

SHEET NO. 1
OF 8 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Benchmark WS-1 - Chiseled "□" on S. End of East Headwall
EL. 611.91

Existing Structure: Single Barrel 9' (W.) x 4' (H.) Cast In Place Concrete Culvert built in 1928. It measures 14'-4" in length as measured along centerline roadway, 57'-5 1/2" width Out-Out, headwalls along skew, 44° Skew Rt. Forward.
Existing Structure No. : None
No Salvage

STA. 3+01.00
BUILT 200 BY
STATE OF ILLINOIS
F.A.P. RTE. 714
SECTION D-6 IL 48 IMPROVEMENT 2006
LOADING HS 20-44
STR. NO. 011-2512

NAME PLATE
(Standard 515001)

TOTAL BILL OF MATERIAL

Item	Unit	Quantity
Stone Riprap, Class A4	Sq. Yd.	236
Filter Fabric	Sq. Yd.	236
Removal of Existing Structures	Each	1
Reinforcement Bars	Pound	30930
Temporary Sheet Piling	Sq. Ft.	1345
Steel Bridge Rail	Foot	104.32
Concrete Box Culverts	Cu. Yd.	127.9
Bar Splicers	Each	92
Name Plates	Each	1
Granular Culvert Backfill	Cu. Yd.	118
Temporary Shoring	Each	1

DESIGN SPECIFICATIONS
2002 A.A.S.H.T.O. Specifications.

GENERAL NOTES

Excavation behind existing culvert walls shall be done before removing the existing top slab. The Contractor shall saw cut the existing culvert at the stage removal line before Stage I Removal.
The layout of the stone riprap may be varied in the field to suit ground conditions as directed by the Engineer.
Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M-31 or M-322, Grade 60.
For backfilling and embankment, see Standard Specifications.
A Pre-cast culvert alternate is not allowed. All construction joints shall be bonded. Exposed edges shall have a standard 3/4" chamfer unless otherwise noted.

LOADING HS 20-44

Allow for 50^{sq}/ft. future wearing surface.

DESIGN STRESSES

FIELD UNITS

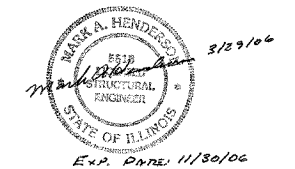
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (Reinforcement)

INDEX OF SHEETS

- 1 - GENERAL PLAN & ELEVATION
- 2 - STAGING DETAILS
- 3 - TEMPORARY CONCRETE BARRIER
- 4 & 5 - CULVERT DETAILS
- 6 - STEEL BRIDGE RAIL CURB MOUNTED
- 7 - BAR SPLICER ASSEMBLY DETAILS
- 8 - BORINGS

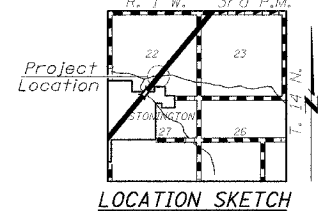
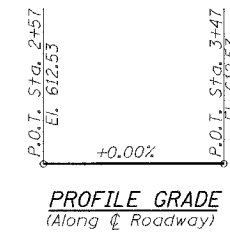
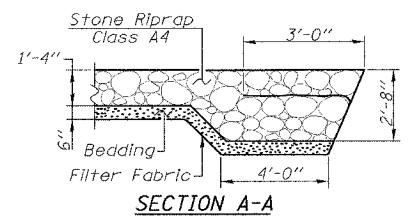
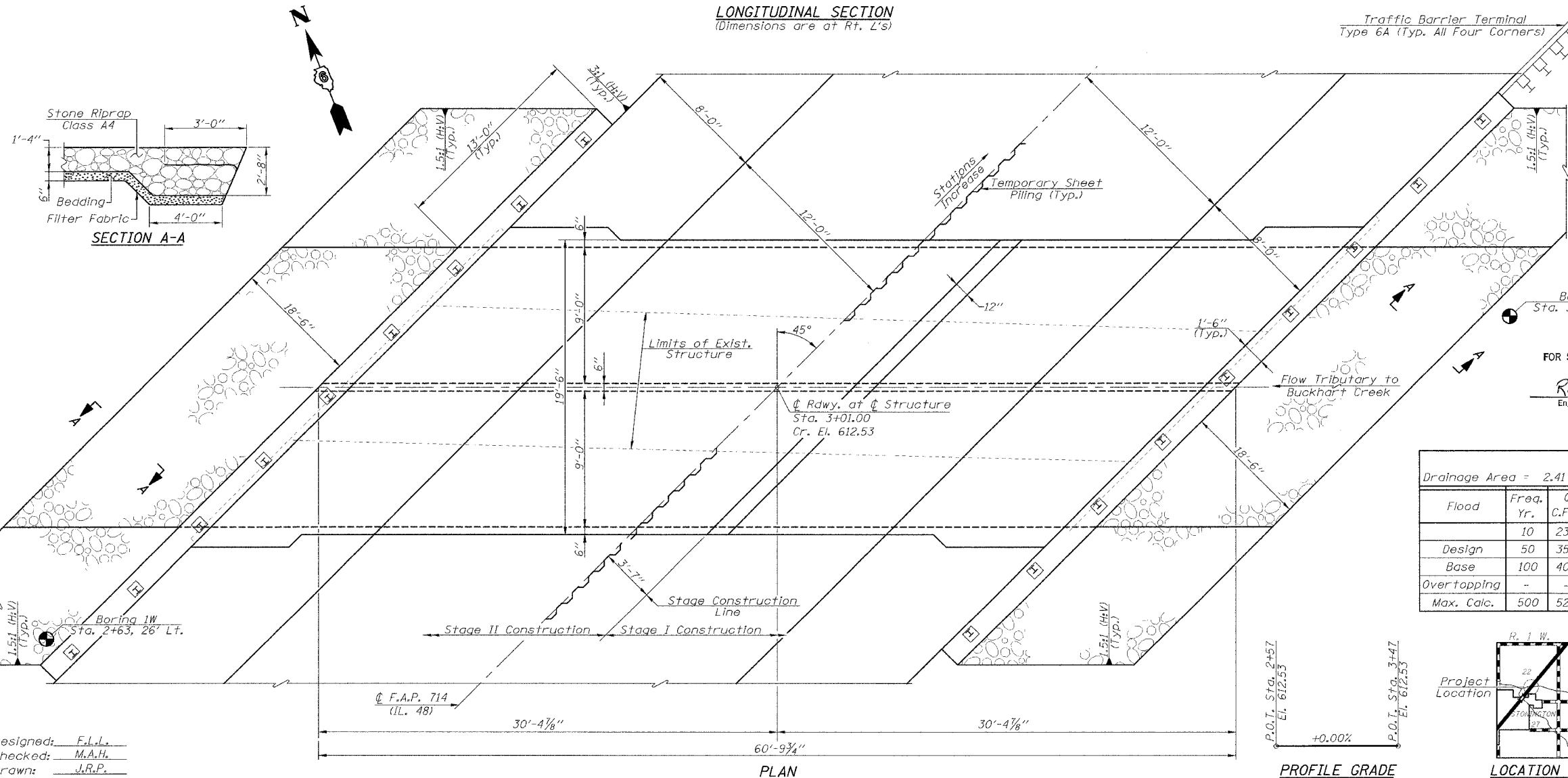
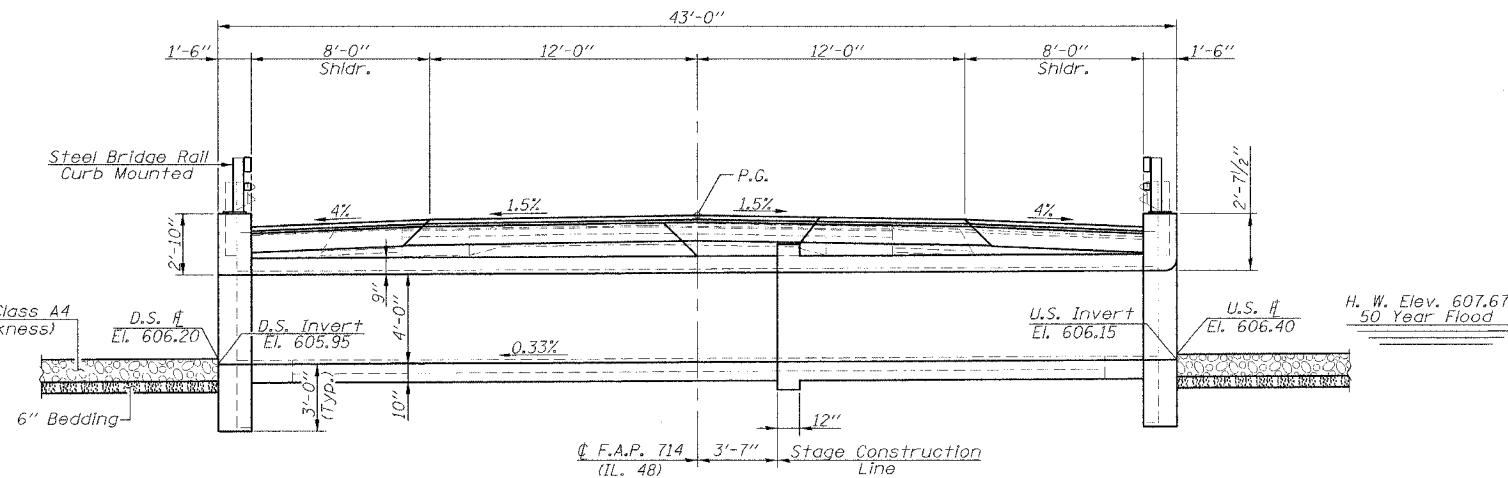
APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson (TSP)
Engineer of Bridges and Structures



WATERWAY INFORMATION

Drainage Area = 2.41 Sq. Mi.		Ex. Low Grade Elev. 612.05 ft. @ Sta. 3+13		Pr. Low Grade Elev. 612.37 ft. @ Sta. 0+00		
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.	Natural H.W.E.	Head - ft.	Headwater El.
			Exist.	Prop.	Exist.	Prop.
Design	10	233	30.22	48.06	607.67	611.61
Base	50	354	30.22	63.00	607.67	612.39
Overtopping	100	404	30.22	68.76	607.67	612.52
Max. Calc.	500	523	30.22	72.00	607.67	612.80



GENERAL PLAN & ELEVATION
IL. ROUTE 48 OVER
TRIBUTARY TO BUCKHART CREEK
F.A.P. ROUTE 714 - SECTION
D-6 IL 48 IMPROVEMENT 2006
CHRISTIAN COUNTY
STA. 3+01.00
S.N. 011-2512

Designed: F.L.L.
Checked: M.A.H.
Drawn: J.R.P.
Checked: F.L.L.