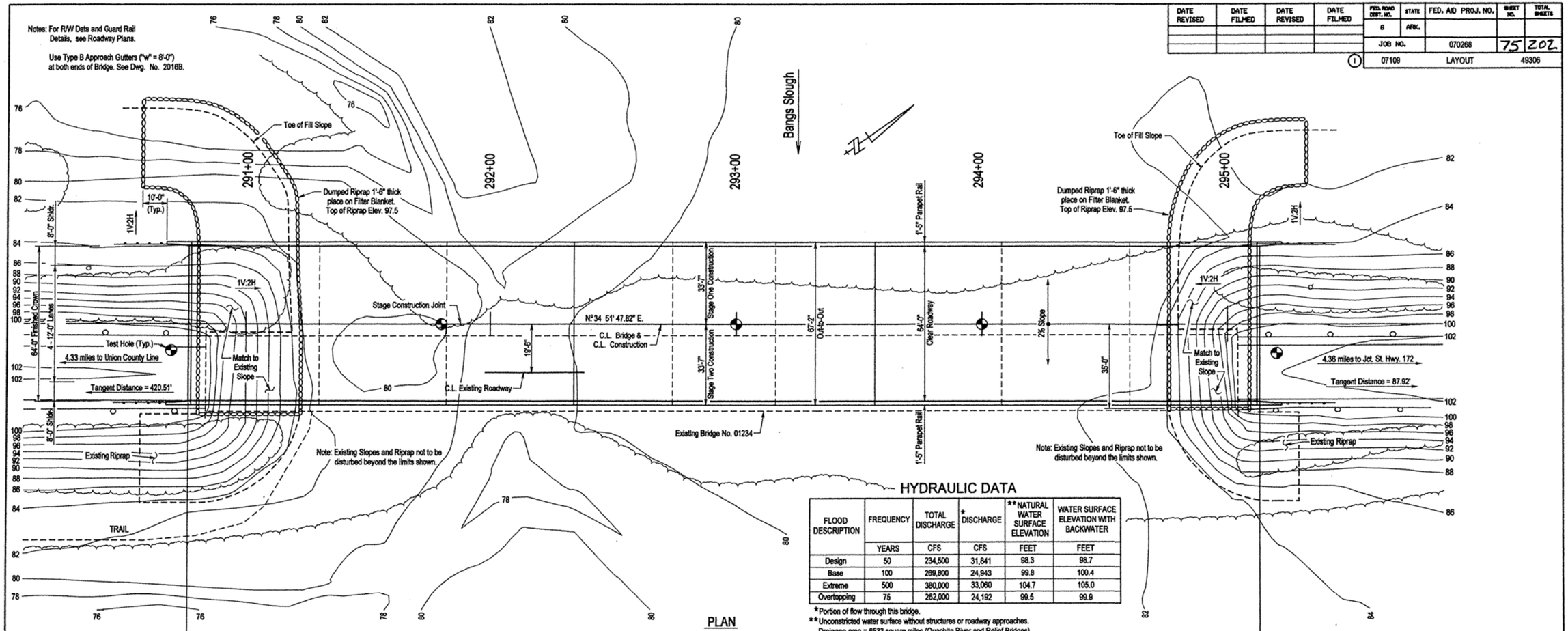
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		070268	75	202
07109		LAYOUT		49306

Notes: For R/W Data and Guard Rail Details, see Roadway Plans.

Use Type B Approach Gutters ("w" = 8'-0") at both ends of Bridge. See Dwg. No. 2016B.

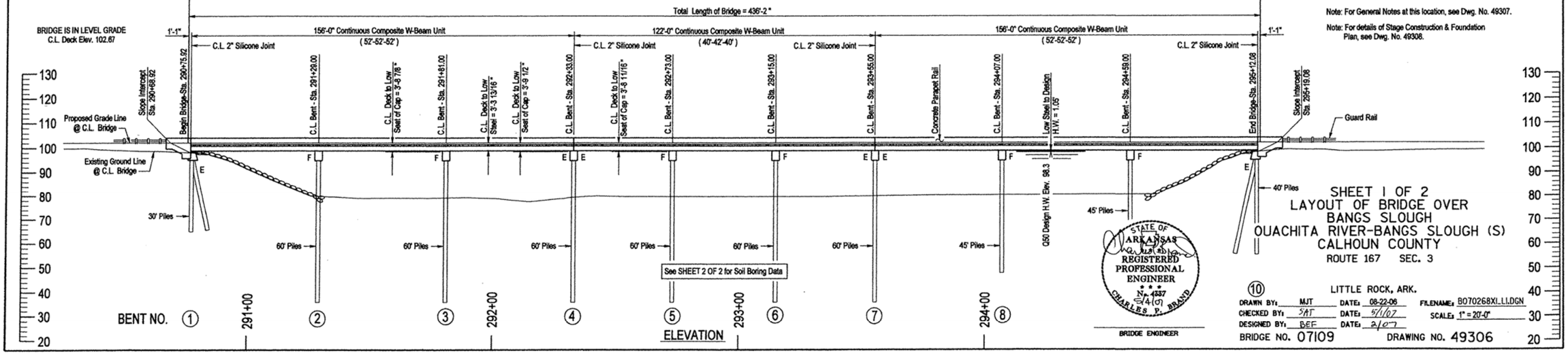


PLAN

HYDRAULIC DATA

FLOOD DESCRIPTION	FREQUENCY	TOTAL DISCHARGE	* DISCHARGE	** NATURAL WATER SURFACE ELEVATION	WATER SURFACE ELEVATION WITH BACKWATER
	YEARS	CFS	CFS	FEET	FEET
Design	50	234,500	31,841	98.3	98.7
Base	100	269,800	24,943	99.8	100.4
Extreme	500	380,000	33,060	104.7	105.0
Overtopping	75	262,000	24,192	99.5	99.9

*Portion of flow through this bridge.
**Unconstricted water surface without structures or roadway approaches.
Drainage area = 6533 square miles (Ouachita River and Relief Bridges).
Historical H.W. Elev. = 100.0 ft.



ELEVATION

Note: For General Notes at this location, see Dwg. No. 49307.

Note: For details of Stage Construction & Foundation Plan, see Dwg. No. 49308.

STATE OF ARKANSAS
No. 4537
REGISTERED PROFESSIONAL ENGINEER
CHARLES P. BRAND
BRIDGE ENGINEER

SHEET 1 OF 2
LAYOUT OF BRIDGE OVER BANGS SLOUGH
OUACHITA RIVER-BANGS SLOUGH (S)
CALHOUN COUNTY
ROUTE 167 SEC. 3

⑩ LITTLE ROCK, ARK.

DRAWN BY: MJT DATE: 08-22-06 FILENAME: B070268X1_LL.DGN
CHECKED BY: SAT DATE: 9/1/07 SCALE: 1" = 20'-0"
DESIGNED BY: BEF DATE: 2/07

BRIDGE NO. 07109 DRAWING NO. 49306

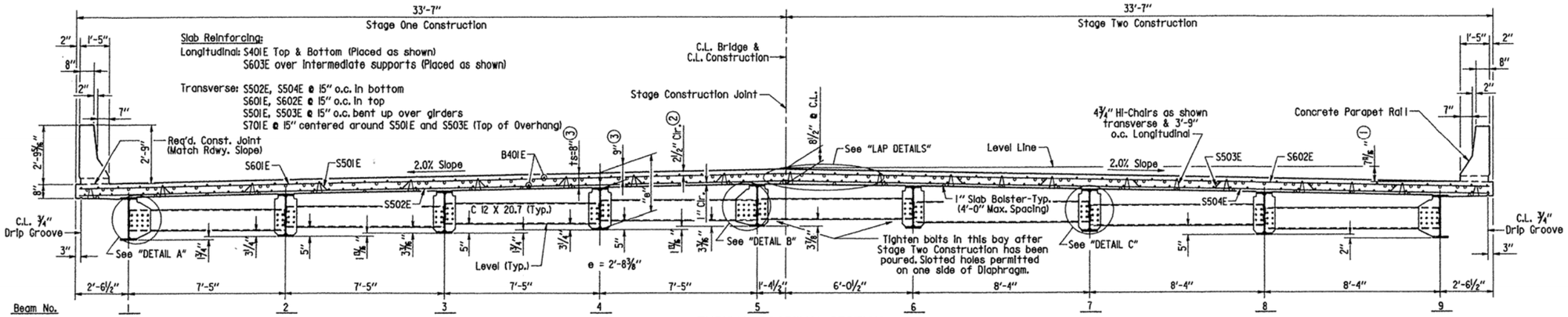
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		070268	84	202
				① 07107-07109		SPAN DETAILS	49315	

Note: Class I Protective Surface Treatment shall be applied to the Roadway Surface and to the Face and Top of Concrete Parapet Rail.

Note: The superstructure details shown are for use when removable deck forming is used and are the basis for measurement of Class S(AE) Concrete.

Note: At Contractor's option, in lieu of providing Bars S501E, and S503E one #5 epoxy-coated bar top and bottom may be substituted. Payment for Reinforcing will be based on the weight of bars S501E and S503E. Bars in top and bottom mat shall be epoxy coated.

Note: All bars designated with a "E" suffix are to be Epoxy Coated.



TYPICAL ROADWAY SECTION

LOOKING AHEAD

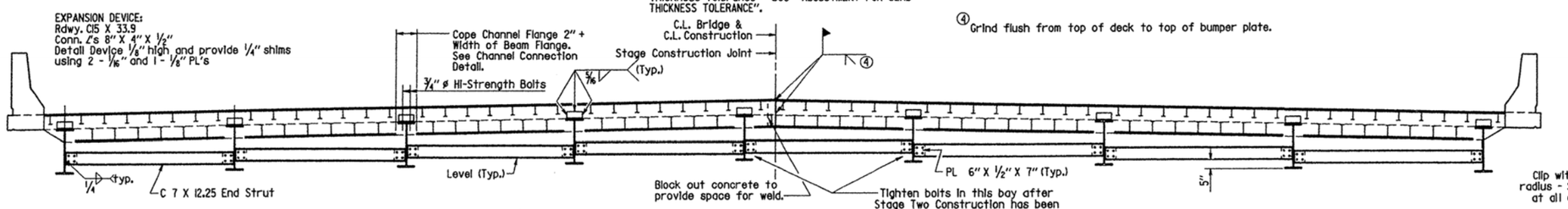
⅜" = 1'-0"

① C.L. Bridge to Gutterline

② Tolerance: Minus = ¼"
Plus = The amount of slab thickening used to meet slab thickness tolerance - see "ADJUSTMENT FOR SLAB THICKNESS TOLERANCE".

③ See "ADJUSTMENT FOR SLAB THICKNESS TOLERANCE".

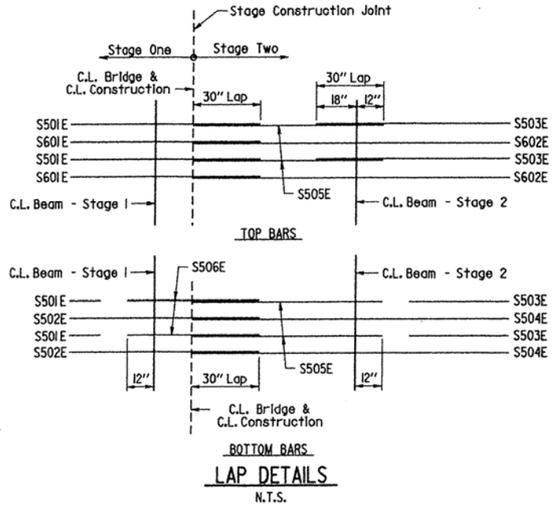
④ Grind flush from top of deck to top of bumper plate.



EXPANSION DEVICE

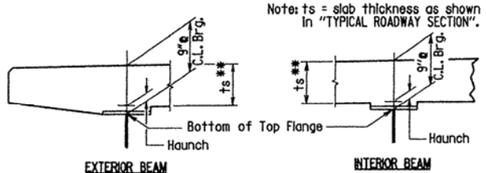
LOOKING AHEAD

⅜" = 1'-0"



LAP DETAILS

N.T.S.



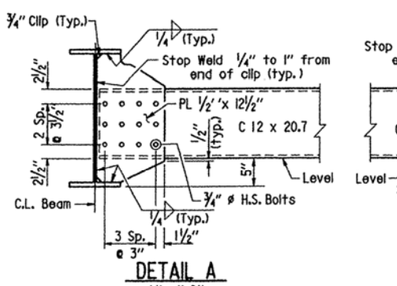
** Tolerance when removable deck forming is used is + ½", - ¼" Haunch forming is required and shall be adjusted to maintain slab thickness tolerance.

Notes:
Haunch dimension may vary within the following limits to maintain the grade and slab thickness tolerance : Minimum - occurs when top flange contacts bottom reinforcing steel; Maximum - top flange thickness plus 1¾". No increase in concrete and structural steel quantities will be made to maintain tolerances.

Tolerances shown are applicable only when removable deck forming is used. See Std. Dwg. No. 1499i for tolerances when permanent steel deck forms are used. Payment for concrete shall be based on removable deck forming.

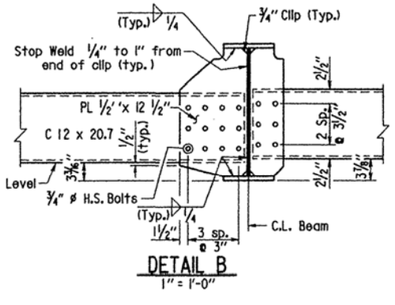
ADJUSTMENT FOR SLAB THICKNESS TOLERANCE WHEN REMOVABLE DECK FORMING IS USED

N.T.S.



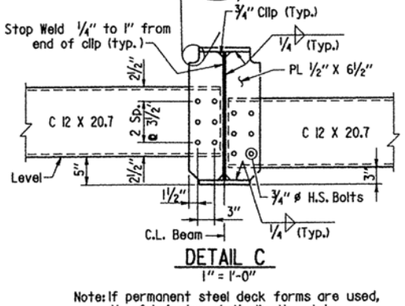
DETAIL A

1" = 1'-0"



DETAIL B

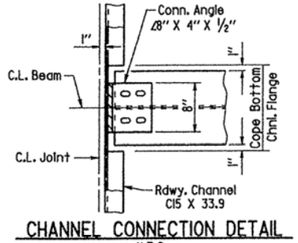
1" = 1'-0"



DETAIL C

1" = 1'-0"

Note: If permanent steel deck forms are used, the fabricator shall clip the plate as necessary to accommodate the deck form support.



CHANNEL CONNECTION DETAIL

N.T.S.

STATE OF ARKANSAS
CHARLES P. BRAND
REGISTERED PROFESSIONAL ENGINEER
No. 4837
5/4/07

BRIDGE ENGINEER

(SHEET 1 OF 4)

DETAILS COMMON TO CONTINUOUS COMPOSITE W-BEAM UNITS

ROUTE 167 SEC. 3

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: MJT DATE: 03-13-07 FILENAME: B070268XL_S1.DGN

CHECKED BY: SAT DATE: 4/13/07 SCALE: AS NOTED

DESIGNED BY: REF DATE: 3/07

BRIDGE NO. 07107-07109 DRAWING NO. 49315