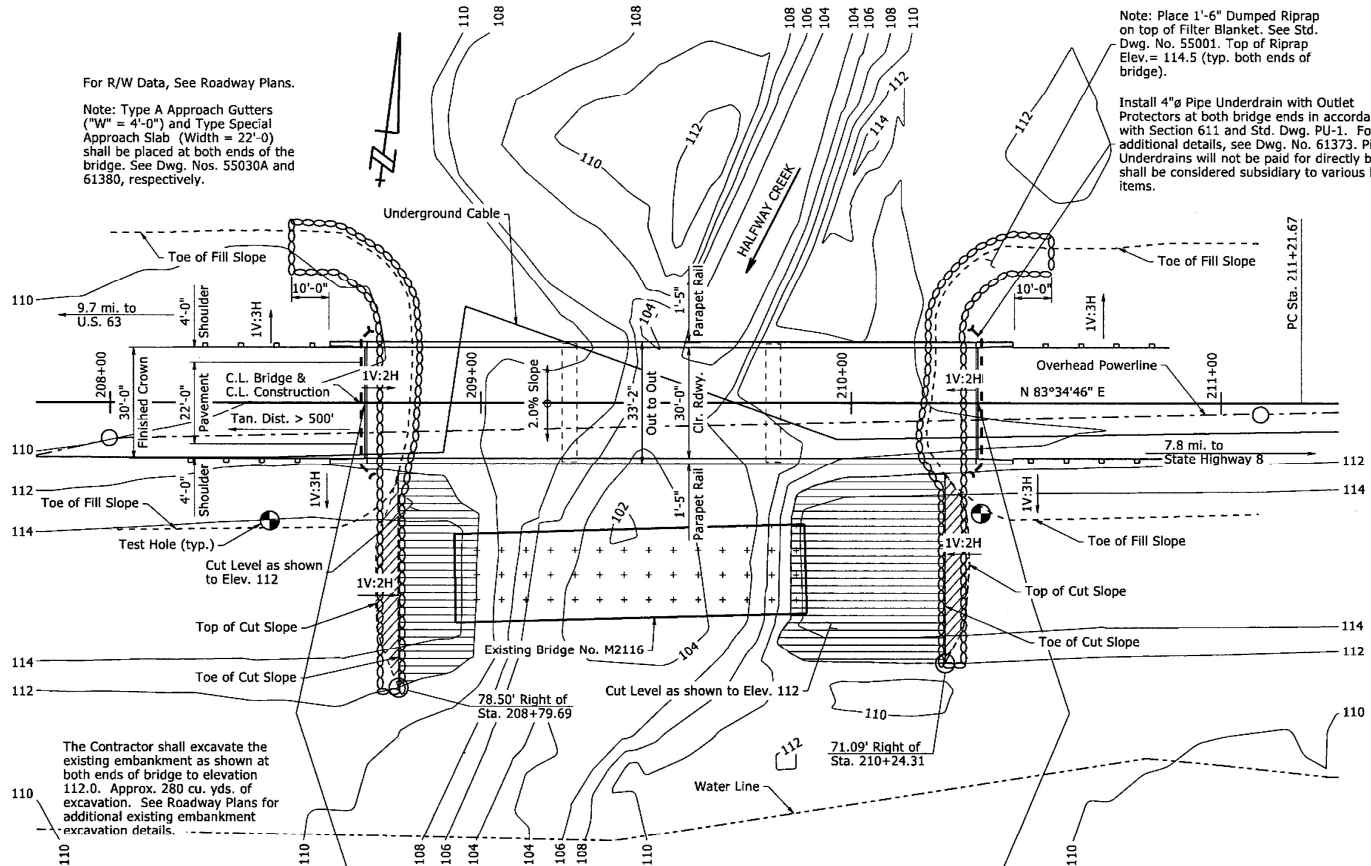


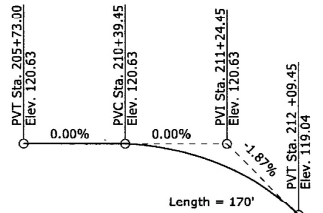
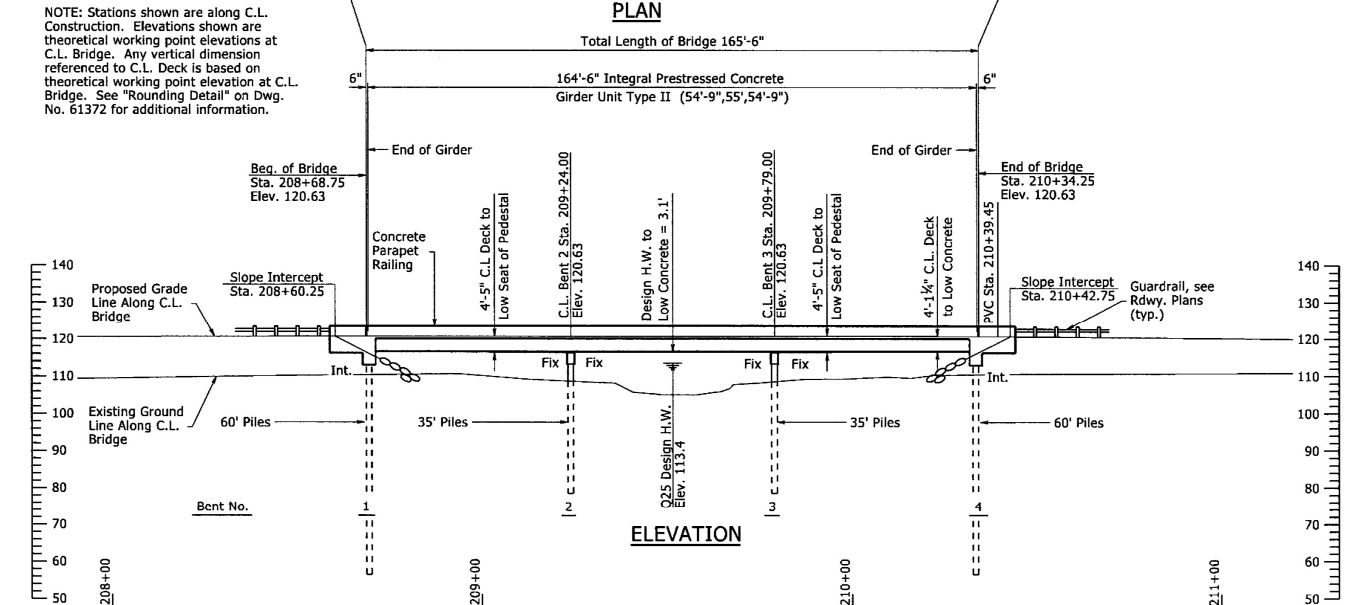
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		070418	29	50
						07475 - LAYOUT - 61367		



HYDRAULIC DATA

FLOOD DESCRIPTION	FREQUENCY	TOTAL DISCHARGE ②	DISCHARGE THIS SITE	NATURAL WATER SURFACE ELEVATION ①	WATER SURFACE ELEVATION WITH BACKWATER
	YEARS	CFS	CFS	FEET	FEET
Design	25	3000	2858.8	113.1	113.7
Base	100	4480	4305.9	114.0	114.9
Extreme	500	6400	6182.9	114.9	116.3
Overtopping	>500	-	-	-	-

- ① Unconstricted water surface elevation without structure or roadway approaches.
 - ② The total discharge includes flow at this site and culvert at Sta. 215+00.00
- Q100 backwater elevation for existing structure = 115.1 feet
Proposed Low Bridge Chord Elev. = 116.53 feet
- Drainage Area = 24.8 square miles
Historical H.W. Elev. = 115.4 ft.

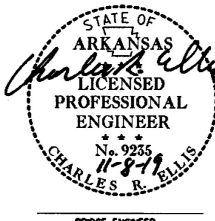


VERTICAL ALIGNMENT DATA

Along C.L. Construction
No Scale

SHEET 1 OF 2
LAYOUT OF BRIDGE
HIGHWAY 160 OVER HALFWAY CREEK
HALFWAY CREEK STR. & APPRS. (S)
BRADLEY COUNTY

ROUTE 160 SEC. 9
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.



DRAWN BY: DPT DATE: 07/24/18 FILENAME: b070418_l1.dgn
CHECKED BY: DHT DATE: 11/17/19 SCALE: 1"=20'
DESIGNED BY: TMG DATE: 5/2019
BRIDGE NO. 07475 DRAWING NO. 61367

Slab Reinforcing:

Longitudinal: S506E Top & S401E Bottom placed as shown
S504E & S505E Top Placed as shown, see "HALF REINFORCING PLAN
AND SLAB POURING SEQUENCE", Dwg. No. 61374.

Transverse: S501E @ 12" o.c. in top, S402E @ 12" o.c. in bottom
S502E @ 12" o.c. bent up over girders
S503E @ 6" in top of overhangs (bundled with No. 5 bars)

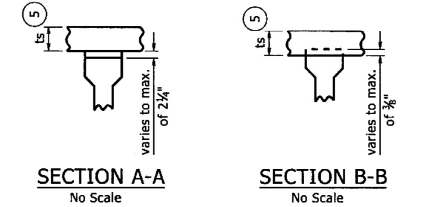
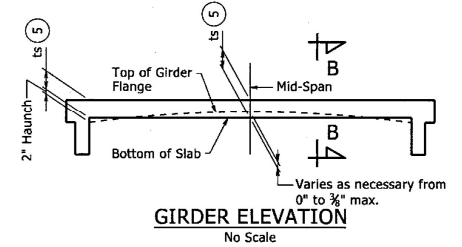
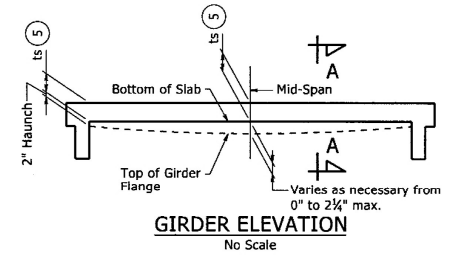
At the Contractor's option, two straight epoxy coated No. 5 bars, one placed in top and one placed in bottom, may be substituted for bar S502E. Payment will be based on the weight of bar S502E.

Bar positions or clearances from the forms shall be maintained by means of stays, ties, hangers or other approved devices per Subsection 804.06. Placement of slab bolsters or high-chairs with full-length lower runners directly on removable deck forms will not be allowed.

Class 1 Protective Surface Treatment shall be applied to the Roadway Surface and the Roadway Face and Top of Concrete Parapet Rail.

- Working point to gutterline.
- Tolerance: Minus = $\frac{1}{4}$ ";
Plus equal to the amount of slab thickening used to meet slab thickness tolerance. See "ADJUSTMENT FOR SLAB THICKNESS TOLERANCE".
- See "ADJUSTMENT FOR SLAB THICKNESS TOLERANCE".
- Partial Depth Diaphragm

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.		070418	34	52
						07475 - SPAN DETAILS	- 61372	



ts = slab thickness as shown on superstructure details - See "TYPICAL ROADWAY SECTION" and "TYPICAL ROADWAY SECTION AT BENTS".

- Tolerance when removable deck forming is used is $\pm \frac{1}{2}$ ", $\pm \frac{1}{4}$ ". Haunch forming is required and shall be adjusted to maintain slab thickness tolerance. See Std. Dwg. No. S5005 for tolerances when permanent steel deck forms are used.

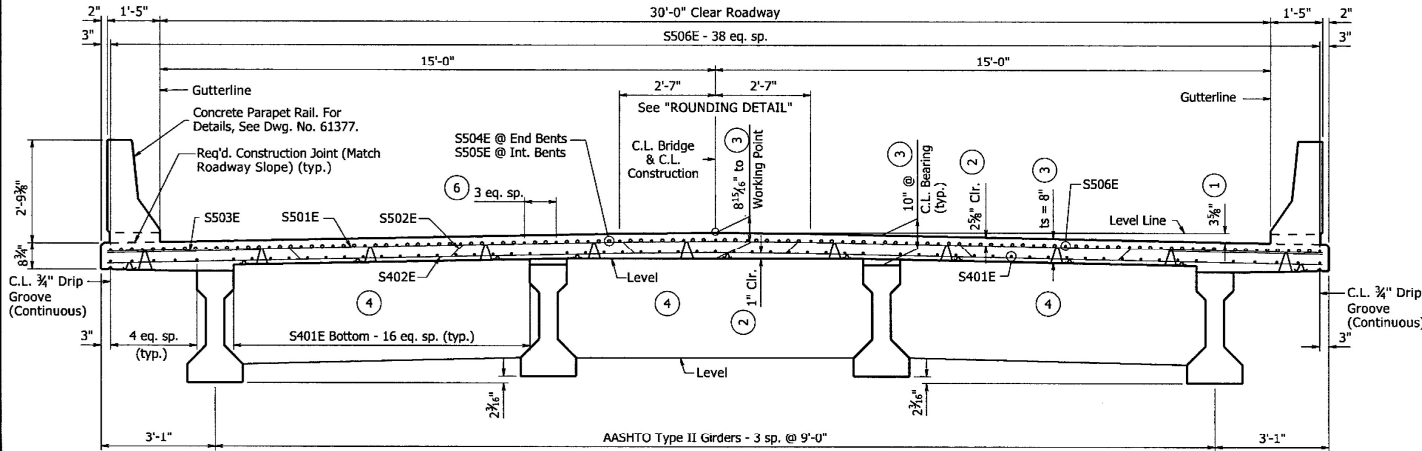
"Girder Elevation" sketches show the range of acceptability of the top of the Girder relative to bottom of slab after the placement of the slab. When the top of the Girder projects more than $\frac{3}{8}$ " into the slab, a raise in grade will be necessary. Girders shall be set in a sufficient number of spans over suitable increments so the revised grade line will produce a smooth riding surface. Variation of haunch height will be at the Contractor's expense.

ADJUSTMENT FOR SLAB THICKNESS TOLERANCE

- Two S504E or S505E bars in between S506E bar spaces.

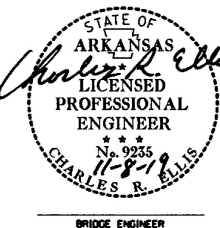
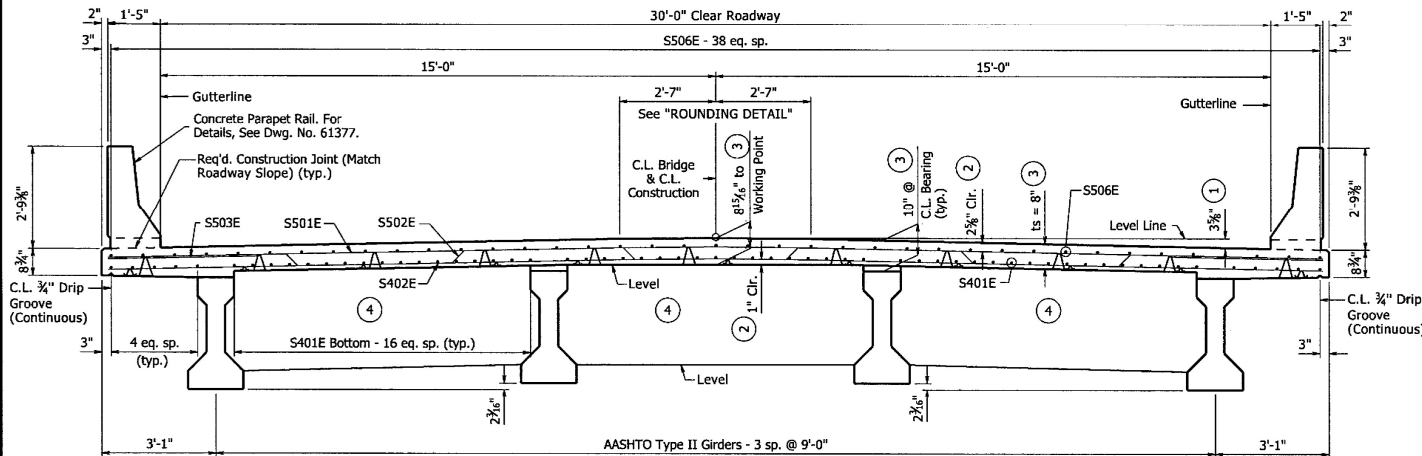
TYPICAL ROADWAY SECTION AT BENTS

$\frac{1}{2}$ " = 1'-0"



TYPICAL ROADWAY SECTION

$\frac{1}{2}$ " = 1'-0"



SHEET 1 OF 8
DETAILS OF 164'-6" INTEGRAL
PRESTRESSED CONCRETE GIRDER UNIT

ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KJT DATE: 10/1/2019 FILENAME: b070418_b1.dgn
CHECKED BY: DHP DATE: 11/1/19 SCALE: As Noted
DESIGNED BY: DHP DATE: 09/2019

BRIDGE NO. 07475 DRAWING NO. 61372