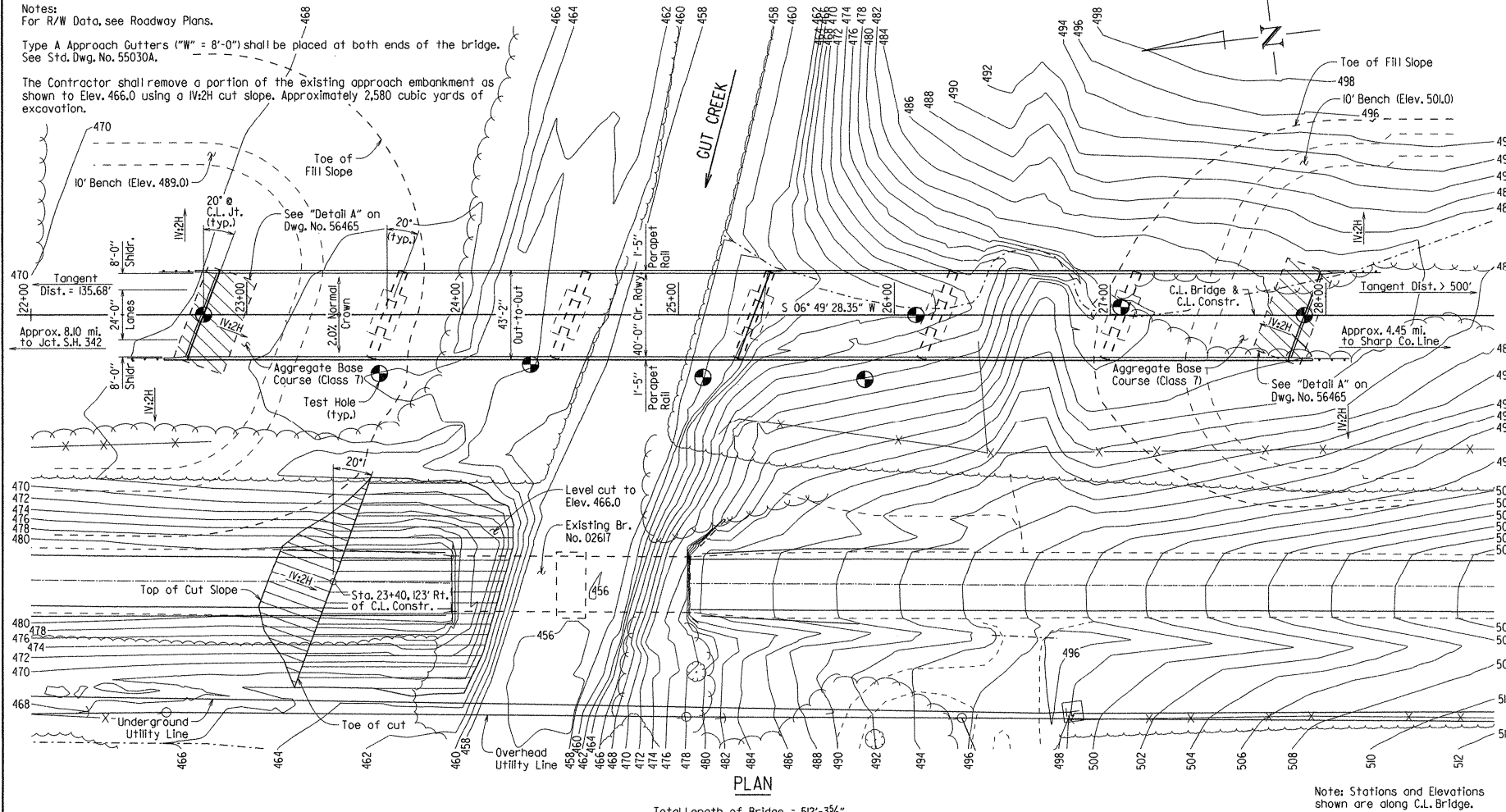


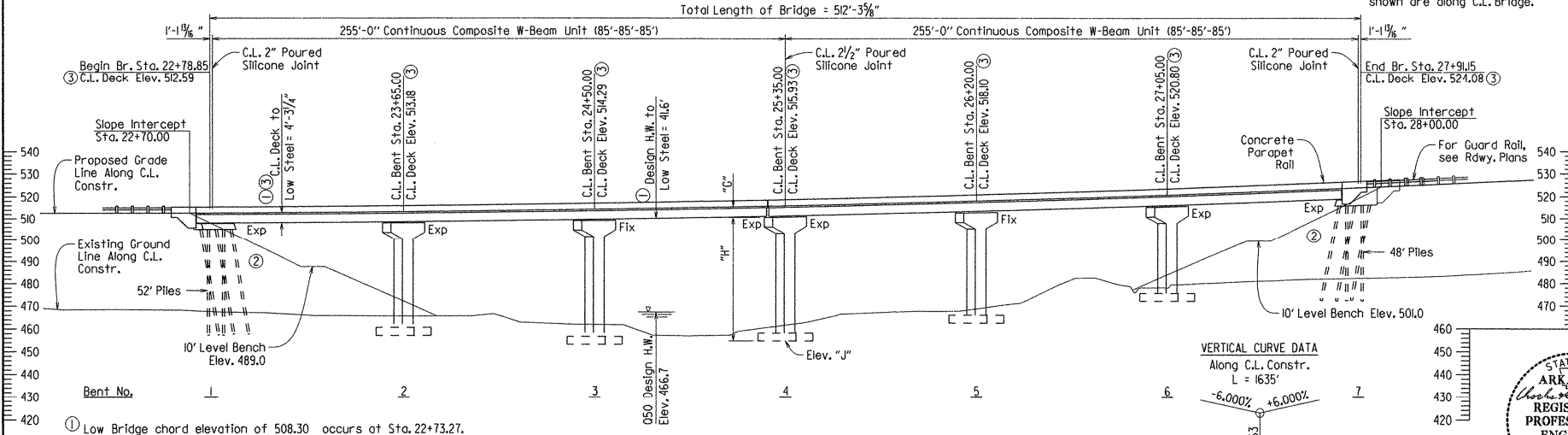
Notes:  
For R/W Data, see Roadway Plans.

Type A Approach Gutters ("W" = 8'-0") shall be placed at both ends of the bridge.  
See Std. Dwg. No. 55030A.

The Contractor shall remove a portion of the existing approach embankment as shown to Elev. 466.0 using a 1V:2H cut slope. Approximately 2,580 cubic yards of excavation.



PLAN



ELEVATION

- Low Bridge chord elevation of 508.30 occurs at Sta. 22+73.27.
- Rock Fill - See Job SP "Rock Fill" & "Detail A" on Dwg. No. 56465.
- Elevations are measured at Working Point, see Dwg. No. 56474.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						050274	37	102

GENERAL NOTES

07337 - LAYOUT - 56464

BENCH MARK: Vertical Control Data is shown in the Survey Control Data Sheets.

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction (2014 edition) with applicable Supplemental Specifications and Special Provisions. Unless otherwise noted in the plans, Section and Subsection refer to the Standard Construction Specifications.

DESIGN SPECIFICATIONS: AASHTO LRFD Bridge Design Specifications, 6th Edition (2012) with 2013 Interim Revisions.

LIVE LOADING: HL-93  
SEISMIC PERFORMANCE ZONE: I

MATERIALS AND STRENGTHS:  
Class (SAC) Concrete (superstructure) f'c = 4,000 psi  
Class S Concrete (substructure) f'c = 3,500 psi  
Reinforcing Steel (Gr. 60, AASHTO M31 or M32, Type A) fy = 60,000 psi  
Structural Steel (AASHTO M270, Gr. 50W) Fy = 50,000 psi  
Structural Steel (AASHTO M270, Gr. 36) Fy = 36,000 psi

BORING LOGS: Boring logs may be obtained from the Construction Contract Procurement Section of the Program Management Division.

STEEL PILING: All Piling shall be HP 12x53 (Grade 50) and shall be driven with an approved air, steam, or diesel hammer into a material designated as dolostone or dolostone with chert seams on the boring legend and to a minimum safe bearing capacity of 95 tons per pile. Piling in End Bents shall be driven to a minimum penetration of 8' below natural ground after embankment to bottom of cap is in place. Lengths of piling shown are for estimating quantities and for use in determining payment for cut-off and build-up in accordance with Section 805. The Contractor shall use approved steel H-Pile driving points on all piles.

FOOTINGS: Footings for Bents 2 thru 5 shall be set a minimum of 2'-0" into material designated as dolostone with occasional chert layers or dolostone on the boring legend. The top of all footings shall be set at or below natural ground as determined by the lowest elevation within the footprint of the footing area. Foundations for footings shall be prepared in accordance with Subsection 801.04. Rock excavations shall be made to the next lines of the concrete footings. Care shall be exercised to avoid shattering of rock faces by excessive blasting. Concrete in footings shall be poured directly against surfaces of rock. Excavations shall be backfilled and compacted to the level of the existing ground in accordance with Subsection 801.08.

BRIDGE DECK: The concrete bridge deck shall be given a fine finish as specified for final finishing in Subsection 802.19 for Class 5 Tined Bridge Roadway Surface Finish.

PROTECTIVE SURFACE TREATMENT: Class I Protective Surface Treatment shall be applied to the roadway surface and to the roadway face and top of the concrete parapet rail.

DETAIL DRAWINGS:  
End Bents 56466 - 56468  
Intermediate Bents 56469 - 56472  
Elastomeric Bearings 56473  
255'-0" Continuous W-Beam Unit 56474 - 56479  
Type A Approach Gutters 55030A  
Steel Piling 55020

EXISTING BRIDGE: Existing Bridge No. 02617 (L.M. 10.26) is 36' wide and 112' long. The existing bridge consists of a concrete deck on steel stringers supported by concrete footings at end bents and a hammerhead column at the intermediate bent.

REMOVAL AND SALVAGE: After the new bridge is opened to traffic, Existing Bridge No. 02617 shall be removed in accordance with Section 205. All material from the existing bridge shall become the property of the Contractor. The exposed grouted concrete from the existing structure shall be removed to a minimum of 2 feet below the finished surface as directed by the Engineer. This work shall be considered incidental to the item "Removal of Existing Bridge Structure".

TABLE OF VARIABLES

Bent No.	C.L. Deck @ C.L. Bent to Low Seat of Cap "C"	Low Seat of Cap to Bottom of Ftg. "H"	Bottom of Ftg. Elevation "J"
2	4'-7 1/8"	51'-6"	457.02
3	4'-8 3/8"	56'-6"	453.09
4	4'-9 3/8"	54'-6"	456.62
5	4'-9 3/8"	49'-6"	463.82
6	4'-9 3/8"	44'-0"	471.98

SHEET 1 OF 2  
LAYOUT OF BRIDGE OVER GUT CREEK  
GUT CREEK STR. & APPRS. (S)  
FULTON COUNTY

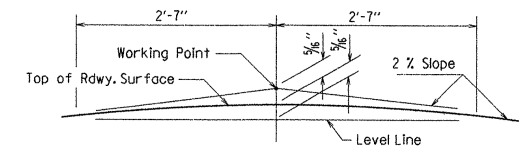
ROUTE 63 SEC. I  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.

DRAWN BY: ACP DATE: 07-01-14 FILENAME: b050274.ll.dgn  
CHECKED BY: AMS DATE: 7/7/14 SCALE: 1" = 30'  
DESIGNED BY: ACP DATE: 07-14  
BRIDGE NO. 07337 DRAWING NO. 56464



BRIDGE ENGINEER

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.		050274	47	162
				① 07337		CONT. UNIT		56474



ROUNDING DETAIL  
N.T.S.

Material Thickness Of Thicker Part Joined (inches)	Minimum Size Of Fillet Weld (inches)	Single Pass Weld  Must Be Used
To $\frac{3}{4}$ " Inclusive	$\frac{1}{4}$ "	
Over $\frac{3}{4}$ "	$\frac{5}{16}$ "	

Diagram illustrating the location of the center of gravity (C.G.) and the bottom of the flange for an exterior beam and an interior beam.

**EXTERIOR BEAM:** The diagram shows a cross-section of an exterior beam. The center of gravity (C.G.) is located at a distance of  $9/4''$  from the bottom of the flange. The bottom of the flange is labeled "Bottom of Flange". The haunch is labeled "Haunch". The center of gravity is labeled "C.L. Br.g.".

**INTERIOR BEAM:** The diagram shows a cross-section of an interior beam. The center of gravity (C.G.) is located at a distance of  $9/4''$  from the bottom of the flange. The bottom of the flange is labeled "Bottom of Flange". The haunch is labeled "Haunch". The center of gravity is labeled "C.L. Br.g.".

CHECKED BY: ACP DATE: 01/16/15 SCALE: As Noted  
DESIGNED BY: ACP DATE: 09-14  
BRIDGE NO. 07337 DRAWING NO. 56474

STATE OF  
ARKANSAS  
*Charles R. Ellis*  
REGISTERED  
PROFESSIONAL  
ENGINEER  
\*\*\*  
No. 9235  
1-20-15  
CHARLES R. ELLIS

**BRIDGE ENGINEER**