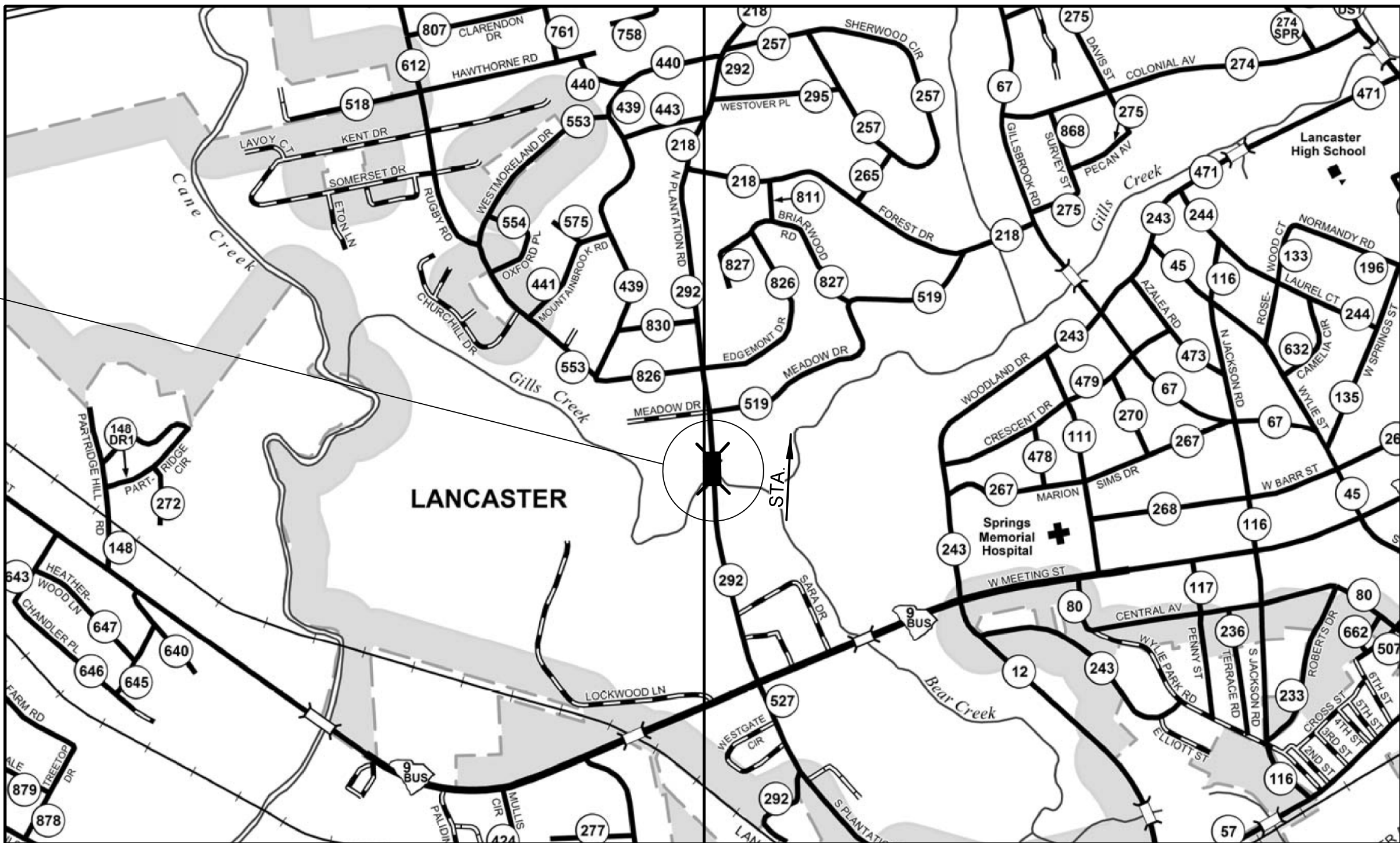


- INDEX OF SHEETS
1. TITLE SHEET
  2. BRIDGE PLAN AND PROFILE
  3. BRIDGE TYPICAL SECTION



PROPOSED PLANS  
FOR  
LANCASTER COUNTY  
PROJECT ID P041170  
STATE ROUTE S-29-292 (PLANTATION RD)  
REPLACE BRIDGE OVER BEAR CREEK

SITE LOCATION



LAYOUT

Approximate Location of Bridge is  
Latitude 34°-43'-10" N  
Longitude 80°-47'-50" W

3 DAYS BEFORE DIGGING IN  
SOUTH CAROLINA  
**CALL 811**  
SOUTH CAROLINA 811 (SC811)  
WWW.SC811.COM  
ALL UTILITIES MAY NOT BE A MEMBER OF SC811

ASSET ID NOT ASSIGNED

TRAFFIC DATA

2025 ADT 2,300 V.P.D.  
2045\* ADT 3,100\* V.P.D.  
TRUCKS 2 %  
\*DESIGN TRAFFIC DATA

NET LENGTH OF ROADWAY	0.000	MILES
NET LENGTH OF BRIDGES	0.063	MILES
NET LENGTH OF PROJECT	0.063	MILES
LENGTH OF EXCEPTIONS	0.000	MILES
GROSS LENGTH OF PROJECT	0.063	MILES

NOTE: EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT SHALL CONFORM TO THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2007 EDITION) AND THE STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT AT THE TIME OF LETTING.

CONSULTING ENGINEERING FIRM

**HNTB**  
HNTB CORPORATION  
SC License No. 265  
343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609

ENGINEER OF RECORD

**CONCEPTUAL  
PLANS  
NOT FOR  
CONSTRUCTION**

FOR CONSTRUCTION : \_\_\_\_\_  
DATE \_\_\_\_\_

REVIEWED	DR.	NEW	BY	CHK	DATE
					6/23

CADD FILE INFORMATION 4:02:43 PM  
PLOTTED DATE: 7/5/2023  
FILE NAME: ...Prp\_001\_S-29-292\_P04170\_ts.dgn

CADD FILE INFORMATION 9:32:41 AM  
PLOTTED DATE: 7/6/2023  
FILE NAME: ...\\Prp-002-S-29-292\_P041170\_bp.dgn

16+00

17+00

18+00

19+00

20+00

21+00

BRIDGE PLANS ID	SHEET NO.
P041170	2

NOTES:

- (A) PROPOSED PROFILE SET SO THAT THE LOW CHORD SATISFIES THE HYDRAULIC REQUIREMENTS, SET FORTH BY THE RFP.
- (B) INCLUDES 1'-0" MASH BARRIER PARAPET AND 1" SLAB EXTENSION.
- (C) REMOVE AND DISPOSE OF EXISTING 27'-6" x 180'-0" 12-SPAN SIMPLE CONCRETE SLAB BRIDGE AND APPURTENANCES IN ACCORDANCE WITH SECTION 202.4.2 OF THE STANDARD SPECIFICATIONS.

F - DENOTES FIXED BEARING

X - DENOTES EXPANSION BEARING

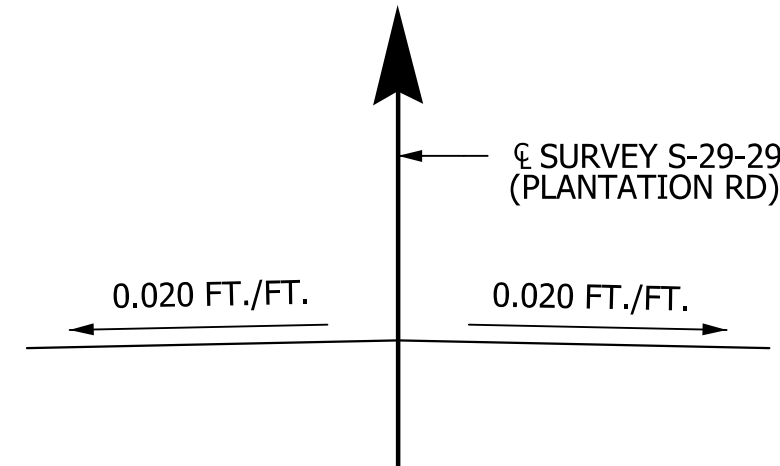
 = EXCAVATE HATCHED AREA

#### CONTROL POINTS

PSC 2  
ELEVATION = 433.34'  
N 1049462.22 E 2060989.89  
RB/CAP

CP3  
ELEVATION = 436.03'  
N 1050249.78 E 2060951.58  
#5 REBAR

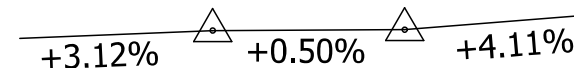
CP4  
ELEVATION = 458.58'  
N 1050957.34 E 2060850.06  
#5 REBAR



TYPICAL THROUGHOUT BRIDGE  
**SUPERELEVATION SKETCH**

#### VERTICAL CURVE DATA

PVI = 15+70.00 PVI = 22+85.00  
ELEV. 440.17 ELEV. 443.75  
V.C. = 120' V.C. = 235'

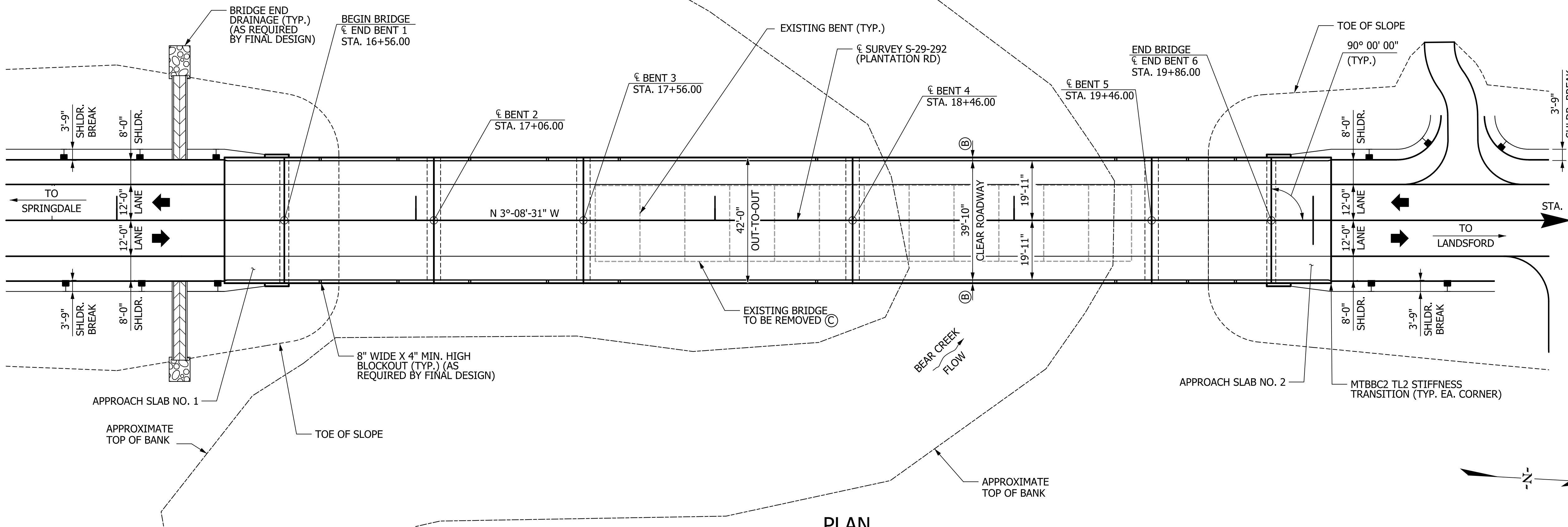


#### HYDROLOGY DATA

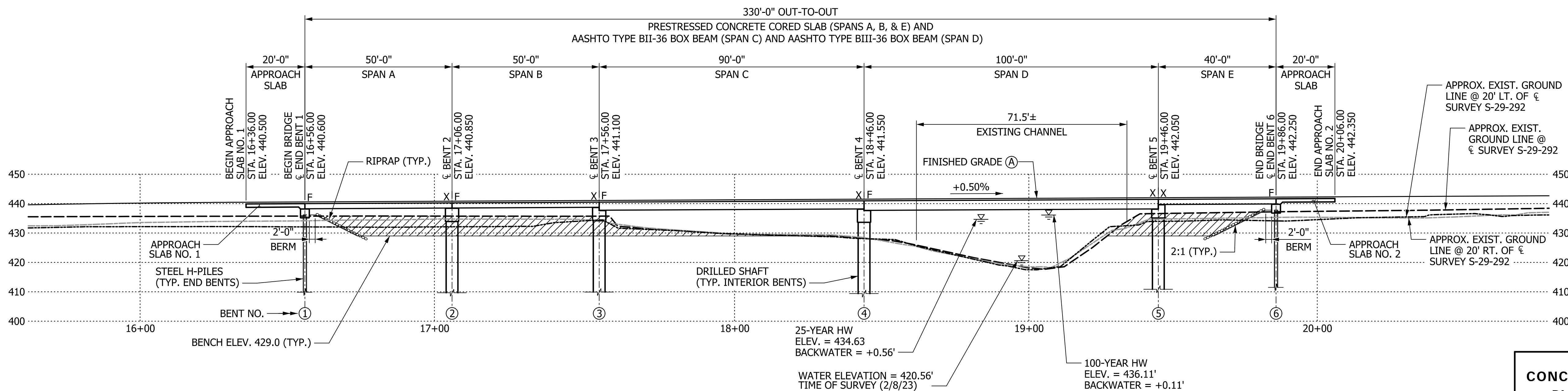
D.A. = 66.5 SQ. MILES  
Q<sub>25</sub> = 6,490 CFS  
VELOCITY<sub>25</sub> = 3.6 FPS  
AREA FURNISHED UNDER<sub>25</sub> = 1,936.5 SQ. FT.  
Q<sub>100</sub> = 9,140 CFS  
VELOCITY<sub>100</sub> = 4.1 FPS  
AREA FURNISHED UNDER<sub>100</sub> = 2,338.4 SQ. FT.

#### OVERTOPPING FLOOD

Q = 24,000 CFS  
PROBABILITY < 0.2%



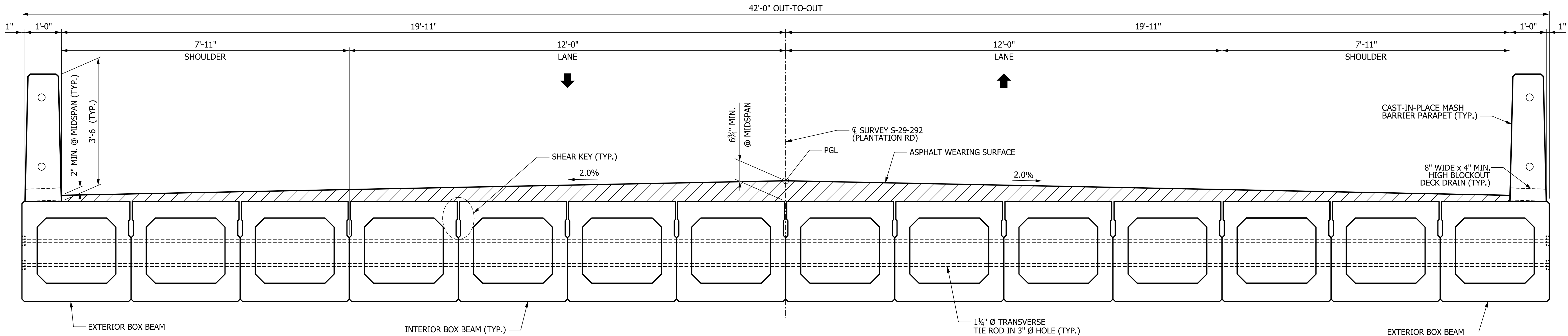
**PLAN**



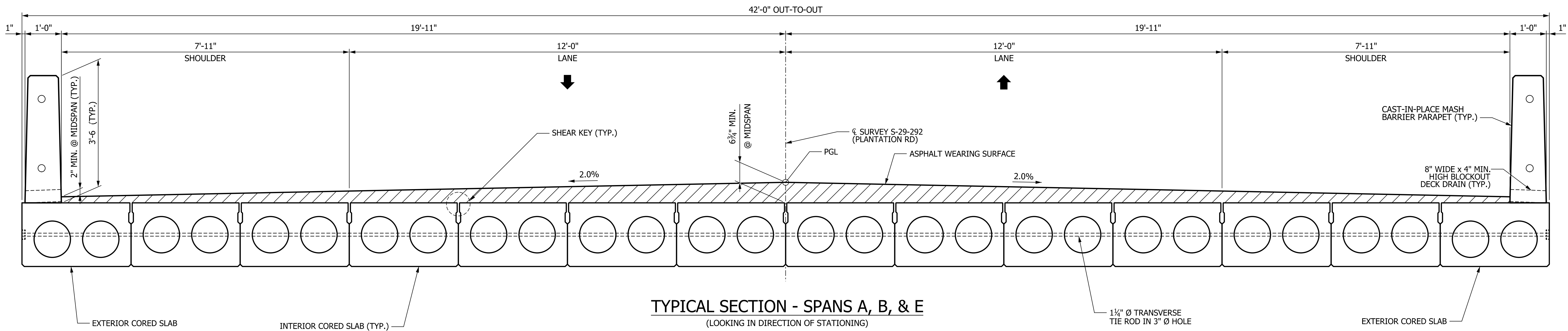
**SECTION ALONG SURVEY S-29-292**

CONCEPTUAL PLANS				HNTB HNTB CORPORATION SC License No. 265 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609	
REV.				SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION	
REV.					
REV.					
REVIEWED				BRIDGE PLAN AND PROFILE  S-29-292 (PLANTATION RD) BRIDGE REPLACEMENT OVER BEAR CREEK	
QUAN.					
DR.	DLH	BJA	6/23		
DES.					
BY				COUNTY LANCASTER	ROUTE S-29-292

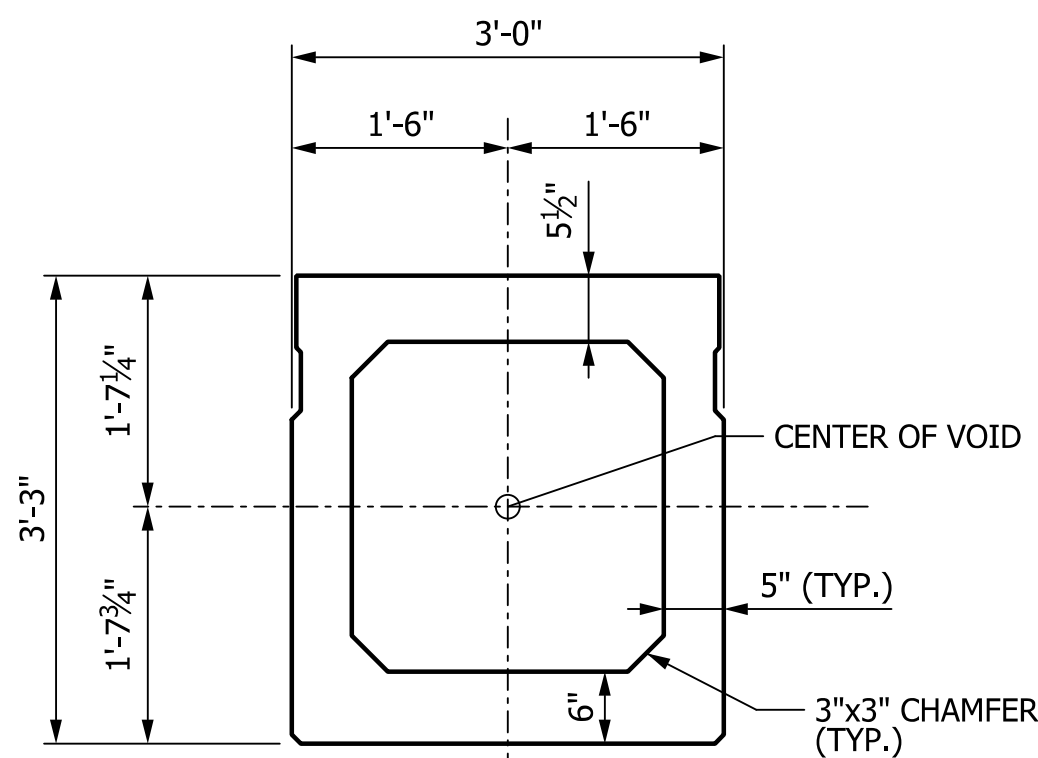
**NOT FOR  
CONSTRUCTION**



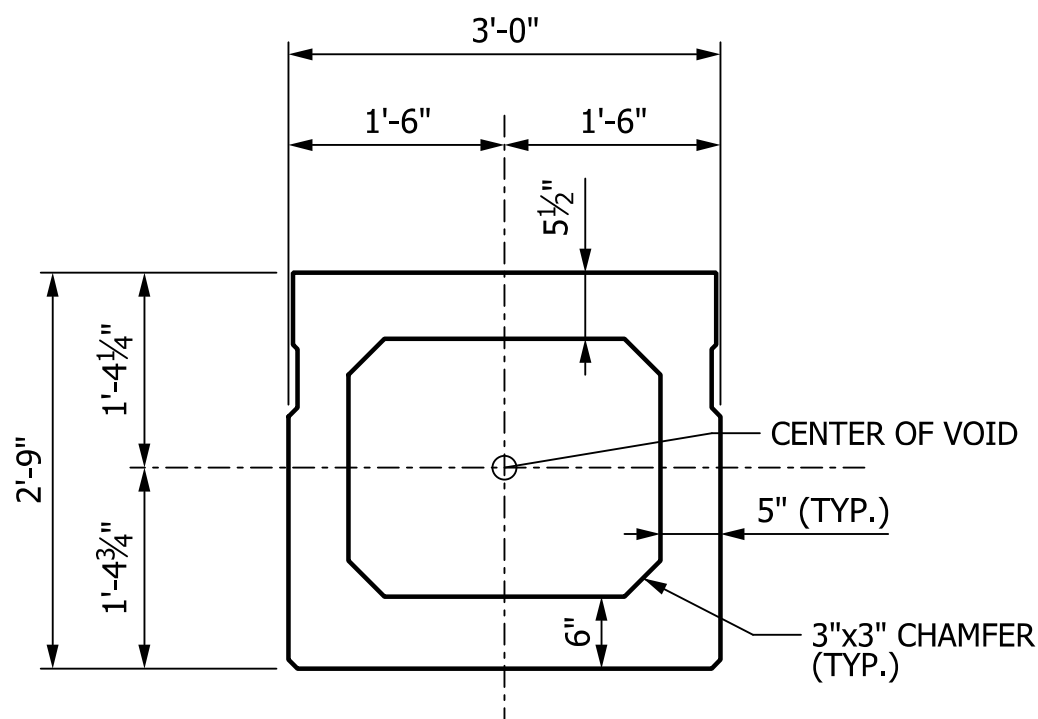
**TYPICAL SECTION - SPANS C & D**  
(LOOKING IN DIRECTION OF STATIONING)



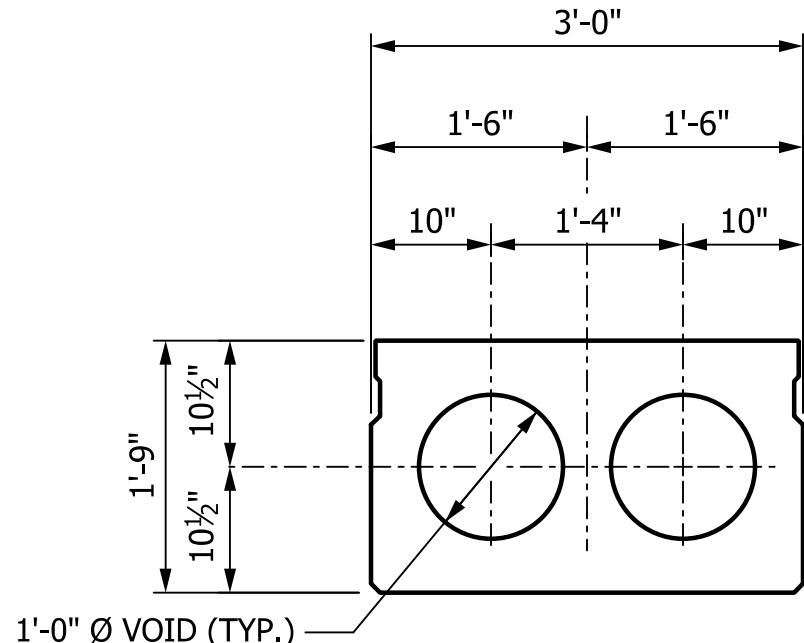
**TYPICAL SECTION - SPANS A, B, & E**  
(LOOKING IN DIRECTION OF STATIONING)



**INTERIOR BOX BEAM SECTION - SPAN D**



**INTERIOR BOX BEAM SECTION - SPAN C**



**INTERIOR SLAB SECTION  
SPANS A, B, & E**

<div>NOT FOR CONSTRUCTION</div>		CONCEPTUAL PLANS				<div>HNTB</div> <div>HNTB CORPORATION SC License No. 265 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609</div>					
		REV.				SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION					
		REV.									
		REV.				BRIDGE TYPICAL SECTION  S-29-292 (PLANTATION RD) BRIDGE REPLACEMENT OVER BEAR CREEK					
REVIEWED											
QUAN.				COUNTY LANCASTER							
DR.	MEW	B3A	6/23							ROUTE S-29-292	
DES.											
	BY	CHK.	DATE								