

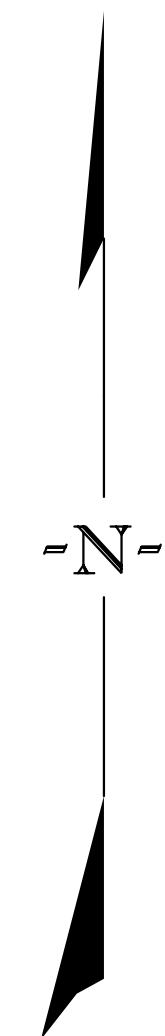
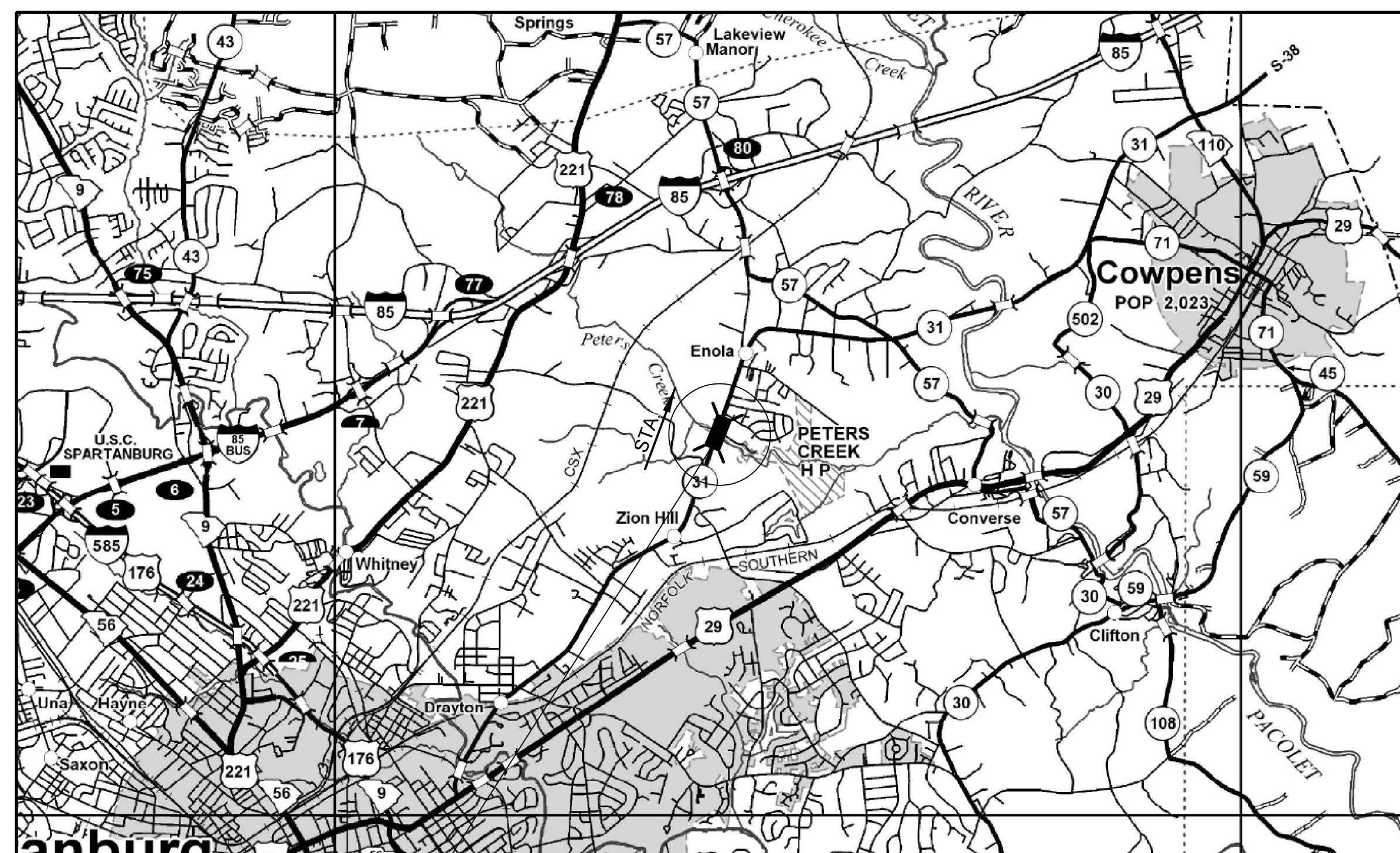
INDEX OF SHEETS

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3. BRIDGE TYPICAL SECTION



SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

PROPOSED PLANS
FOR
SPARTANBURG COUNTY
PROJECT ID P041165
ROUTE S-42-31 (CANNONS CAMPGROUND RD)
REPLACE BRIDGE OVER PETERS CREEK



Approximate Location of Bridge is
Latitude 34°-59'-54" N
Longitude 81°-52'-36" W

SITE LOCATION LAYOUT

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		
YEAR	ADT	V.P.D.
2025	10700	
2045*	14400*	
TRUCKS 4 %		
* DESIGN TRAFFIC DATA		

NET LENGTH OF ROADWAY	0.000	MILES
NET LENGTH OF BRIDGES	0.032	MILES
NET LENGTH OF PROJECT	0.032	MILES
LENGTH OF EXCEPTIONS	0.000	MILES
GROSS LENGTH OF PROJECT	0.032	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 AND THE STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT AT THE TIME OF LETTING.

CONSULTING
ENGINEERING FIRM
HNTB
HNTB CORPORATION
SC License No. 265
4000 Center at North Hills Street, Suite 500, Raleigh, N.C. 27609

ENGINEER OF RECORD
**CONCEPTUAL
PLANS
NOT FOR
CONSTRUCTION**

CADD FILE INFORMATION 6:34:44 AM
PLOTTED DATE 2/17/2025
FILE NAME ...S-42-31 over Peters Creek.ts_Microstation
USER NAME dhorton

REVIEWED	CCC	DLH	BJA	02-25	DATE
DR.	BY	CHK.	DATE		

178+00 179+00 180+00 181+00

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 1/2" SLAB EXTENSION.
- (C) REMOVE AND DISPOSE OF EXISTING 38'-6" x 150'-0" 9-SPAN SIMPLE CONCRETE SLAB BRIDGE AND APPURTENANCES IN ACCORDANCE WITH SECTION 202.4.2 OF THE STANDARD SPECIFICATIONS.

I - DENOTES INTEGRAL END BENT

F - DENOTES FIXED BEARING

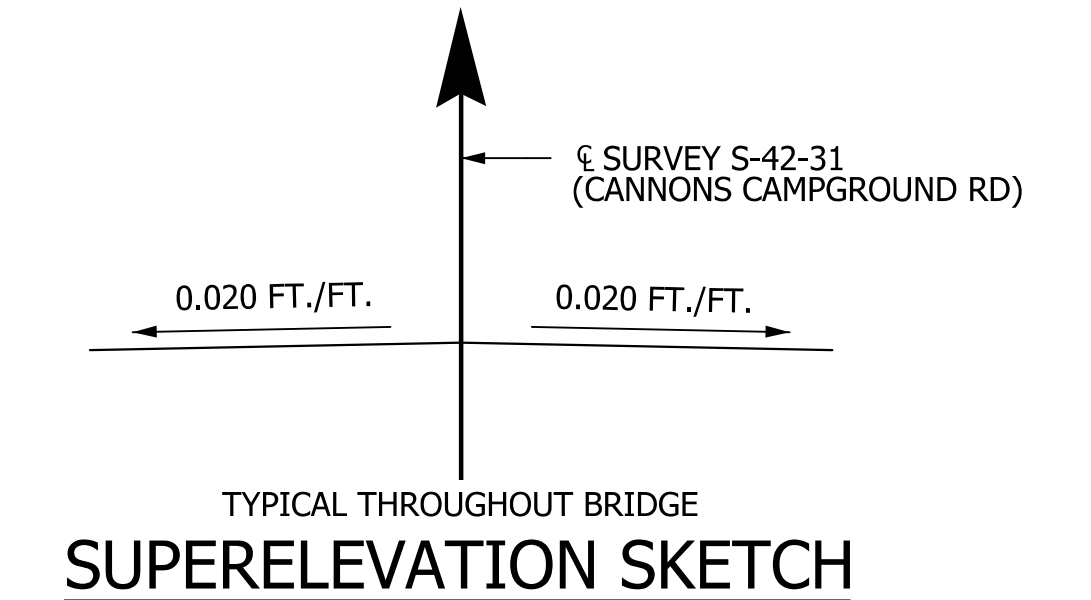
[Hatched Area Symbol] = EXCAVATE HATCHED AREA

CONTROL POINTS

CP3
ELEVATION = 762.89
N 1151971.32 E 1737186.50
8" NAIL

CP4
ELEVATION = 716.61
N 1152758.05 E 1737427.32
8" NAIL

CP5
ELEVATION = 759.75
N 1153516.63 E 1737734.43
8" NAIL



VERTICAL CURVE DATA

VPI = 179+60.00
ELEV. 711.775
V.C. = 425'

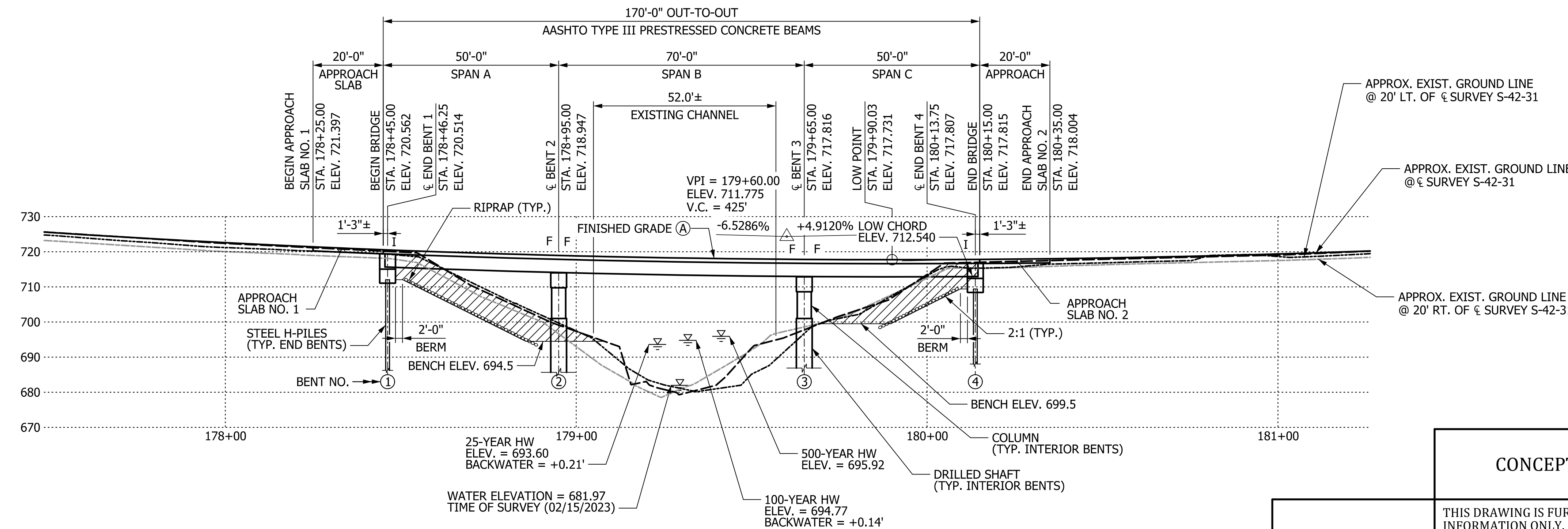
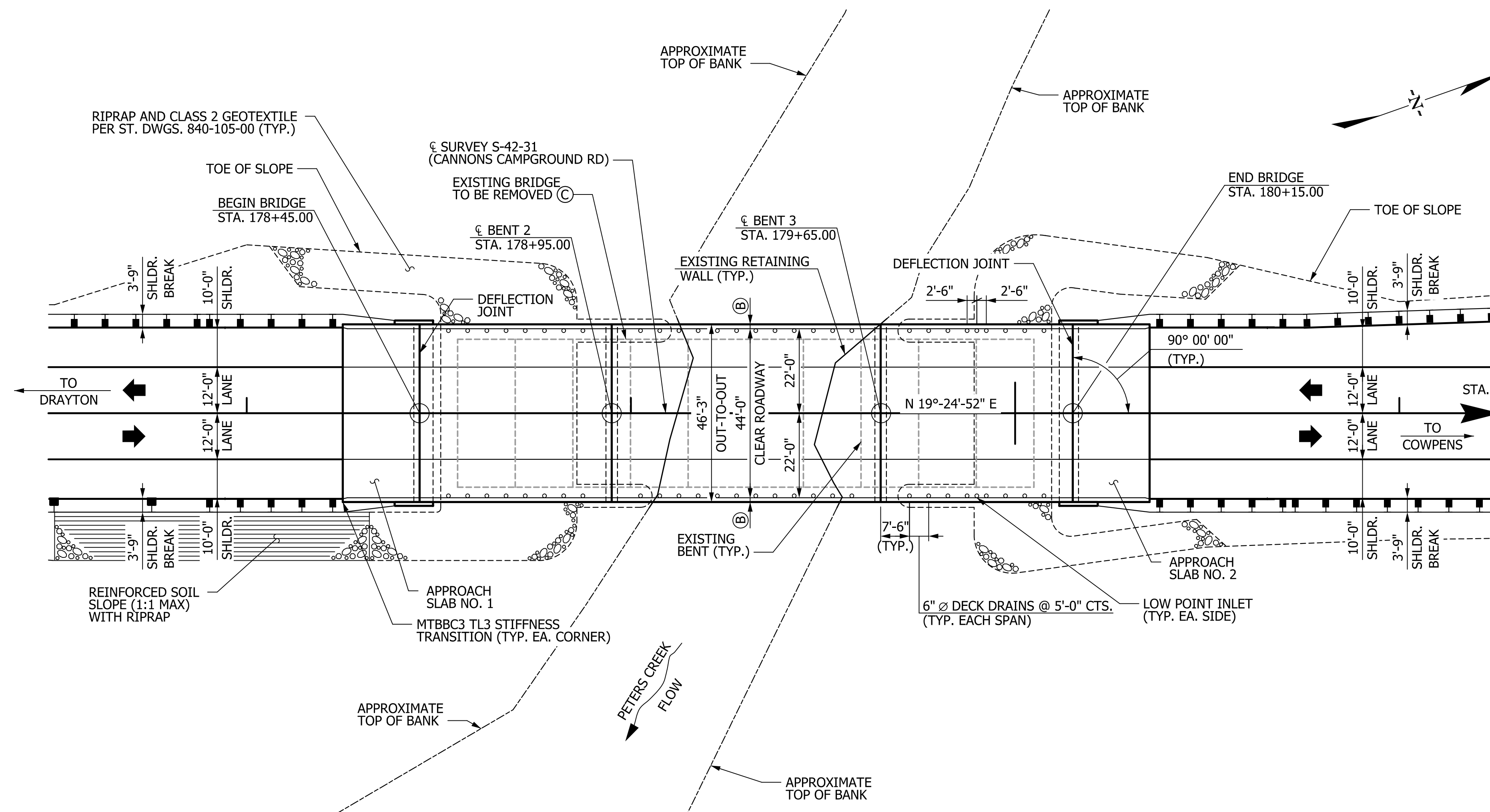
-6.5286% +4.9120%

HYDROLOGY DATA

D.A. = 6.53 SQ. MILES
Q₂₅ = 1,560 CFS
VELOCITY₂₅ = 3.68 FPS
AREA FURNISHED UNDER₂₅ = 2,370 SQ. FT.
Q₁₀₀ = 2,240 CFS
VELOCITY₁₀₀ = 4.54 FPS
AREA FURNISHED UNDER₁₀₀ = 2,310 SQ. FT.

OVERTOPPING FLOOD

Q = 35,300 CFS
PROBABILITY < 0.2%



SECTION ALONG SURVEY C S-42-31

NOT FOR CONSTRUCTION

CONCEPTUAL PLANS
THIS DRAWING IS FURNISHED FOR INFORMATION ONLY. ALL DIMENSIONS SHOWN ARE SHEET SPECIFIC. ANY USE OF THIS DESIGN AND DRAWING, INCLUDING DIMENSIONS, MUST BE CHECKED BY THE USER'S ENGINEER TO ENSURE DESIGN IS ADEQUATE FOR THE INTENDED USE. ALL DRAWINGS MUST BE SIGNED AND SEALED BY A SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER WHEN USED.

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SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BRIDGE TYPICAL SECTION

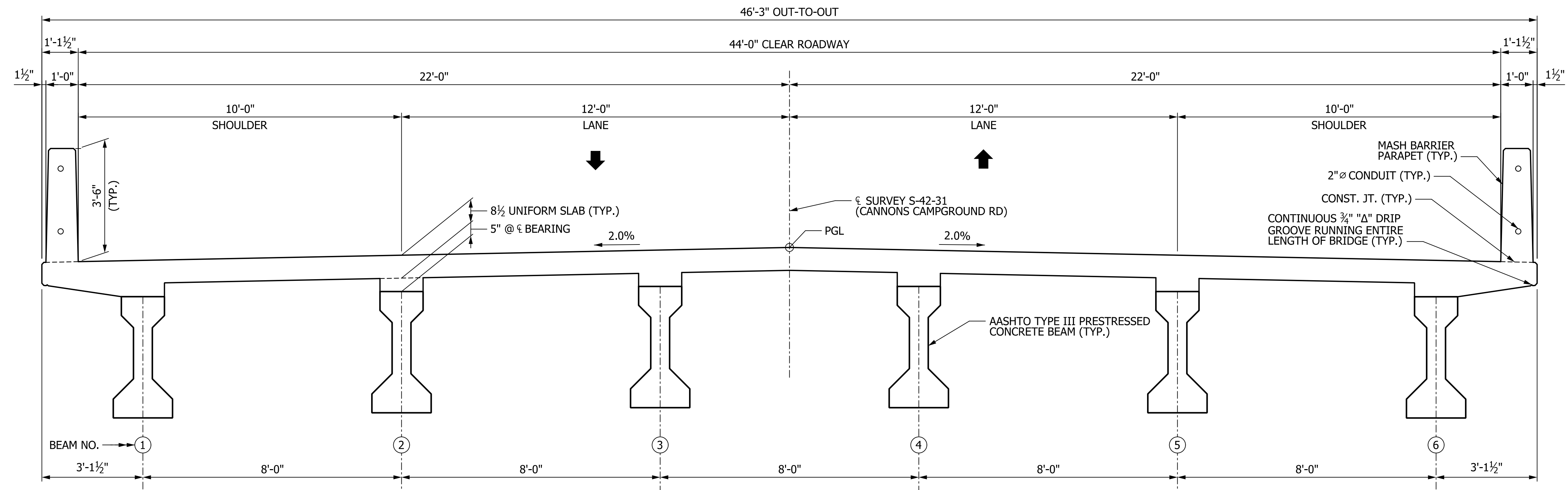
S-42-31 (CANNONS CAMPGROUND RD) BRIDGE
REPLACEMENT OVER PETERS CREEK

COUNTY: SPARTANBURG S-42-31

CADD FILE INFORMATION 9:52:32 AM
PLOTTED DATE 2/19/2025
FILE NAME ...S-42-31 over Peters Creek_bj_Microstation
USER NAME dhorton

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

QUAN.	DLH	BJA	DATE



TYPICAL SECTION
(LOOKING IN DIRECTION OF STATIONING)

CADD FILE INFORMATION 6:36:11 AM
 PLOTTED DATE 2/17/2025
 FILE NAME ...S-42-31 over Peters Creek_sx_Microstation
 USER NAME dhorton

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

QUAN.	DR.	DES.	DLH	BJA	DATE

NOT FOR CONSTRUCTION	CONCEPTUAL PLANS	HNTB HNTB CORPORATION SC License No. 265 4000 Center at North Hills Street, Suite 500, Raleigh, N.C. 27609
		SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
		BRIDGE TYPICAL SECTION S-42-31 (CANNONS CAMPGROUND RD) BRIDGE REPLACEMENT OVER PETERS CREEK
		COUNTY: SPARTANBURG
		S-42-31