

INDEX OF SHEETS

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3. BRIDGE TYPICAL SECTION



SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

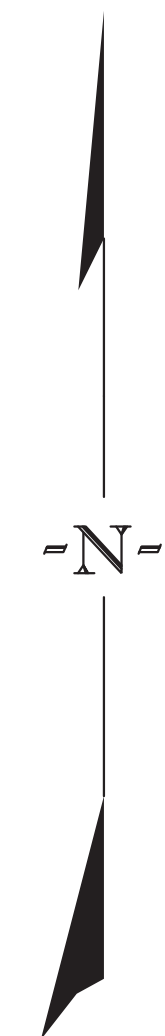
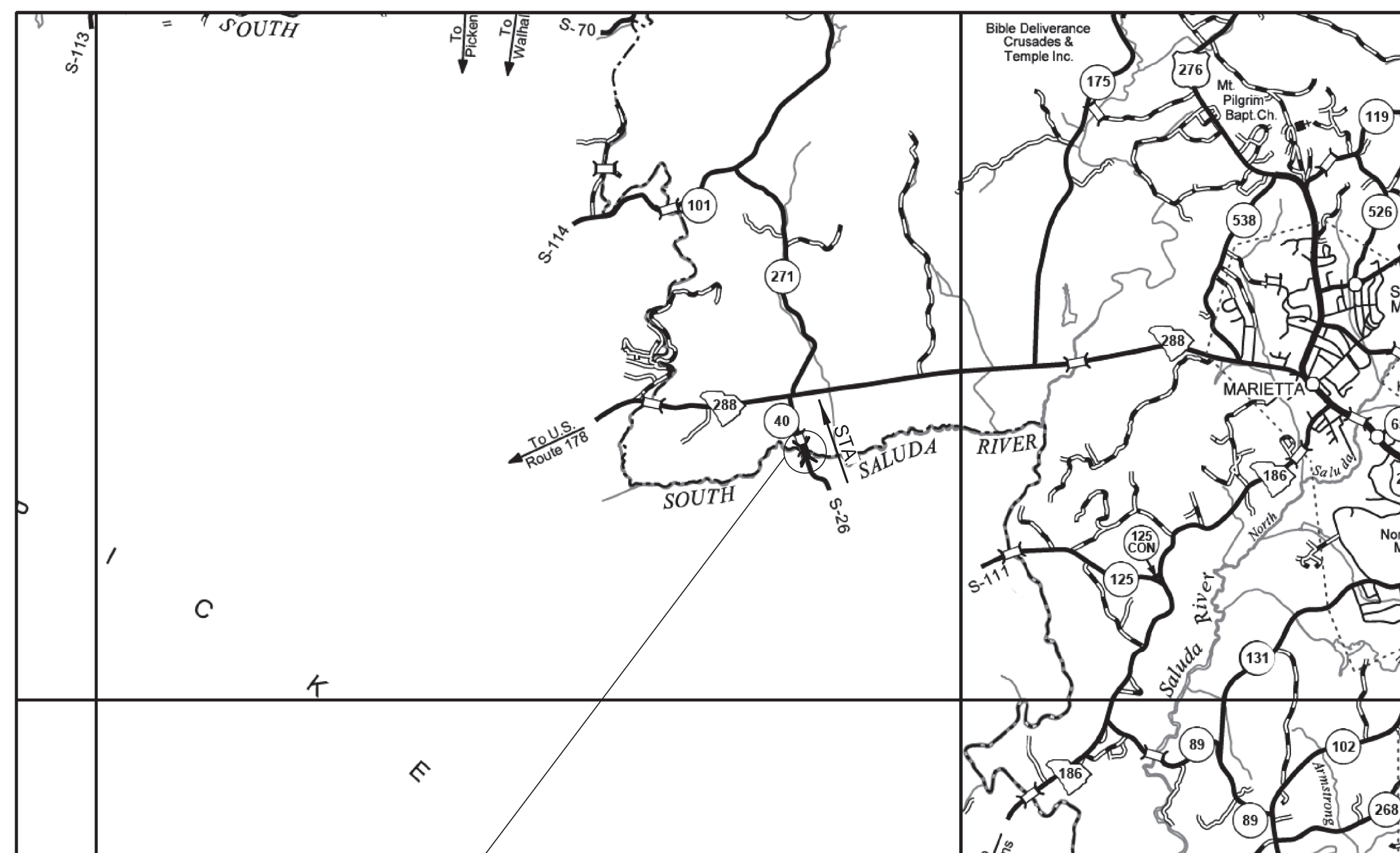


# PROPOSED PLANS FOR GREENVILLE COUNTY PROJECT ID P041160 ROUTE S-23-40 (PACE BRIDGE RD) REPLACE BRIDGE OVER SOUTH SALUDA RIVER

DESIGN REFERENCE FOR THESE PLANS IS THE:

## LVB

SUPPLEMENTAL DESIGN CRITERIA FOR  
LOW VOLUME BRIDGE REPLACEMENT PROJECTS



APPROXIMATE LOCATION OF BRIDGE IS  
 LATITUDE 35°- 00' - 45" N  
 LONGITUDE 82°- 34' - 15" 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		
2025	ADT	600 V.P.D.
2045*	ADT	800 V.P.D.
TRUCKS <u>8</u> %		
* DESIGN TRAFFIC DATA		

NET LENGTH OF ROADWAY	0.000	MILES
NET LENGTH OF BRIDGES	0.028	MILES
NET LENGTH OF PROJECT	0.028	MILES
LENGTH OF EXCEPTIONS	0.000	MILES
GROSS LENGTH OF PROJECT	0.028	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 1:43:28 PM  
 PLOTTED DATE 9/25/2024  
 FILE NAME ...S-23-40 over South Saluda River.is\_Microstation  
 USER NAME dhorton

REVIEWED	CCC	BY	CHK.	DATE
DR.	MEW	BJA	08-24	

30+00 31+00 32+00 33+00

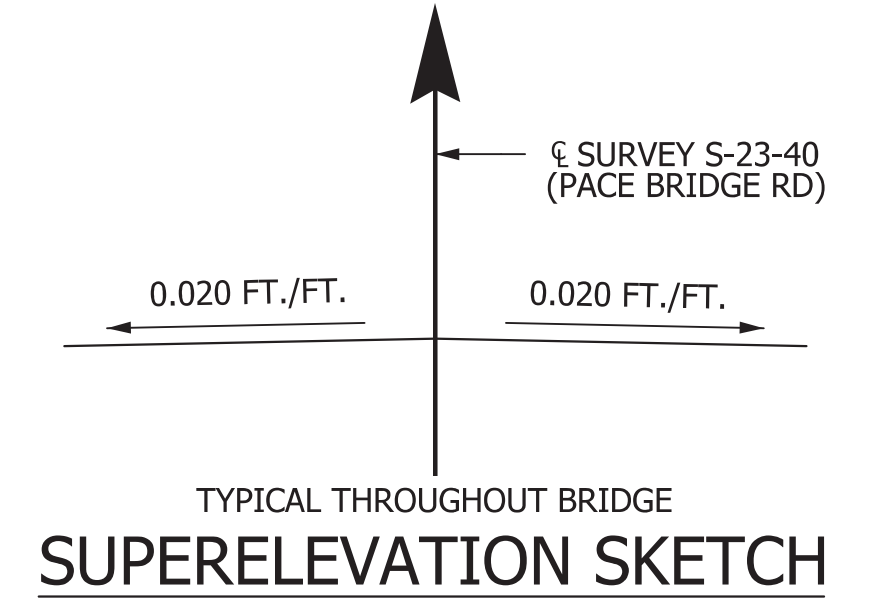
- NOTES:
- (A) PROPOSED PROFILE SET SO THAT THE LOW CHORD SATISFIES THE HYDRAULIC REQUIREMENTS, SET FORTH BY THE RFP.
  - (B) INCLUDES 1'-0" MASH BARRIER PARAPET AND 1" SLAB EXTENSION.
  - (C) REMOVE AND DISPOSE OF EXISTING 26'-0" x 120'-0" 4-SPAN SIMPLE CONCRETE SLAB BRIDGE AND APPURTENANCES IN ACCORDANCE WITH SECTION 202.4.2 OF THE STANDARD SPECIFICATIONS.

F - DENOTES FIXED BEARING  
 X - DENOTES EXPANSION BEARING  
 [Hatched Area] = EXCAVATE HATCHED AREA

**CONTROL POINTS**

CP7  
 ELEVATION = 916.75  
 N 1159752.28 E 1529808.50  
 BRDG NL

CP8  
 ELEVATION = 916.50  
 N 1160363.49 E 1529632.64  
 BRDG NL



VERTICAL CURVE DATA	
PVI = 29+60.00	PVI = 33+50.00
ELEV. 919.21	ELEV. 921.16
V.C. = 135'	V.C. = 135'

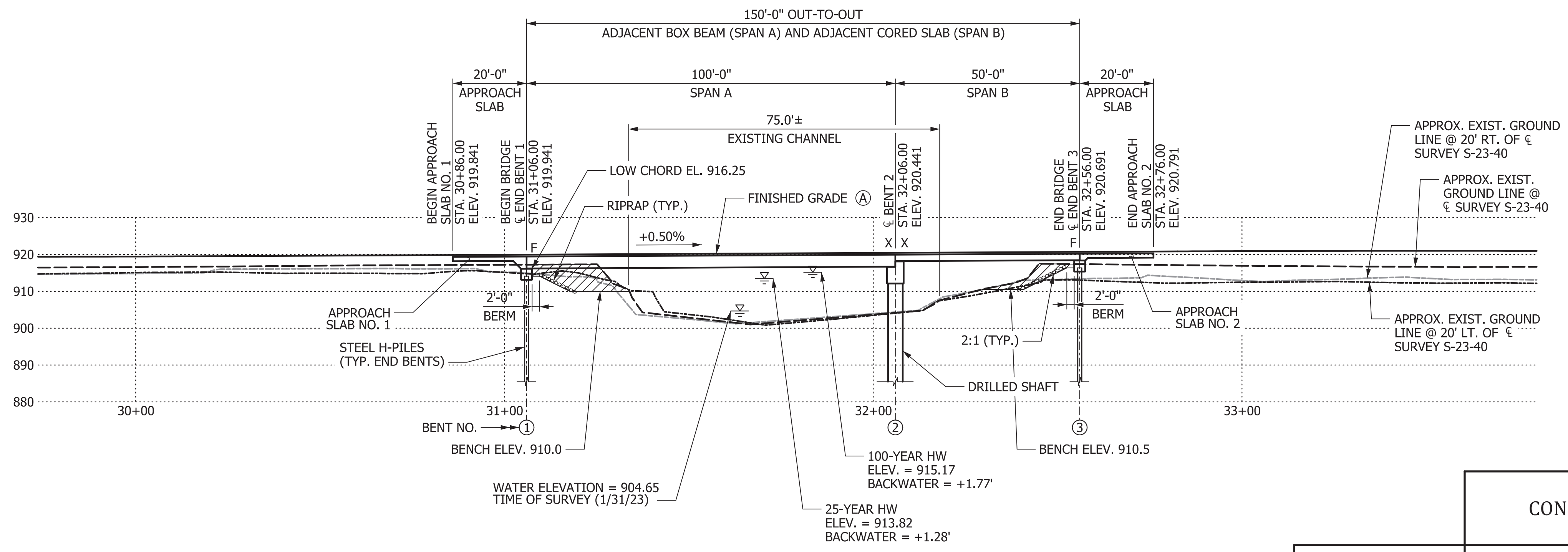
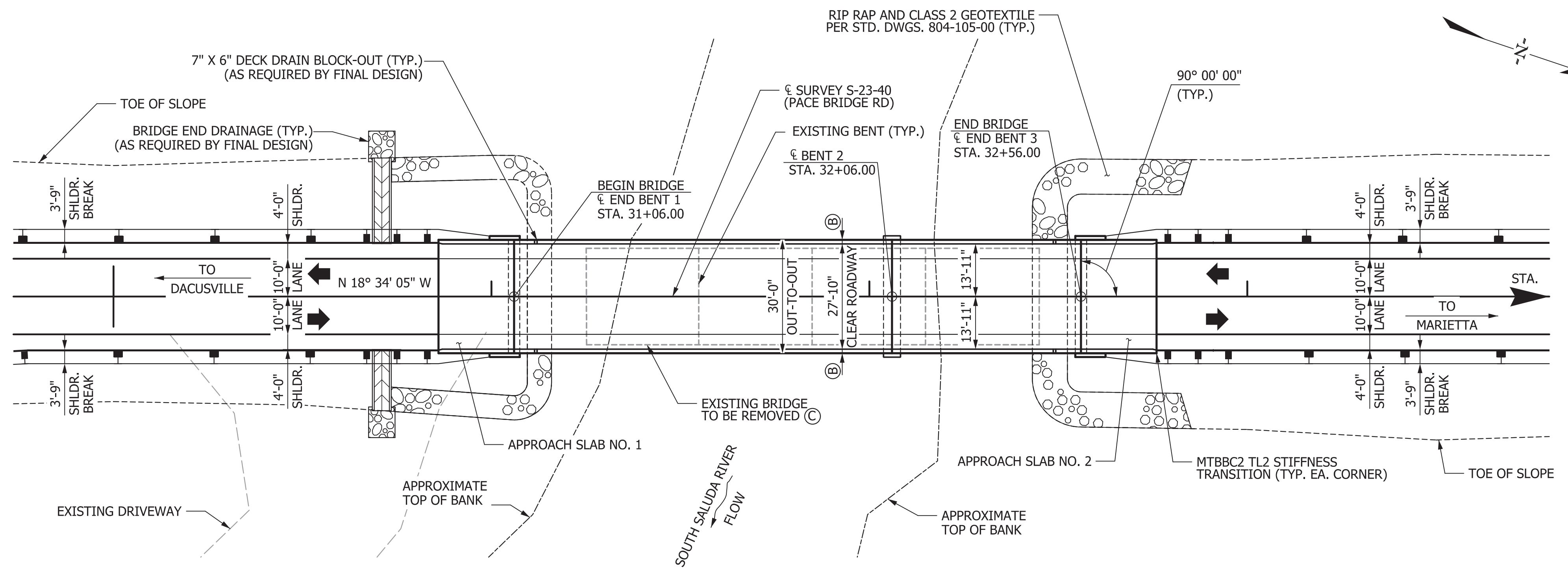
**HYDROLOGY DATA**

D.A. = 98.4 SQ. MILES  
 Q<sub>25</sub> = 9,590 CFS  
 VELOCITY<sub>25</sub> = 9.4 FPS  
 AREA FURNISHED UNDER<sub>25</sub> = 810.6 SQ. FT.

Q<sub>100</sub> = 13,600 CFS  
 VELOCITY<sub>100</sub> = 11.5 FPS  
 AREA FURNISHED UNDER<sub>100</sub> = 903.1 SQ. FT.

**OVERTOPPING FLOOD**

Q = 18,300 CFS  
 PROBABILITY < 0.2%



CADD FILE INFORMATION 12:59:22 PM  
 PLOTTED DATE 10/27/2024  
 FILE NAME ...S-23-40 over South Saluda River\_bp\_Microstation  
 USER NAME dhorton

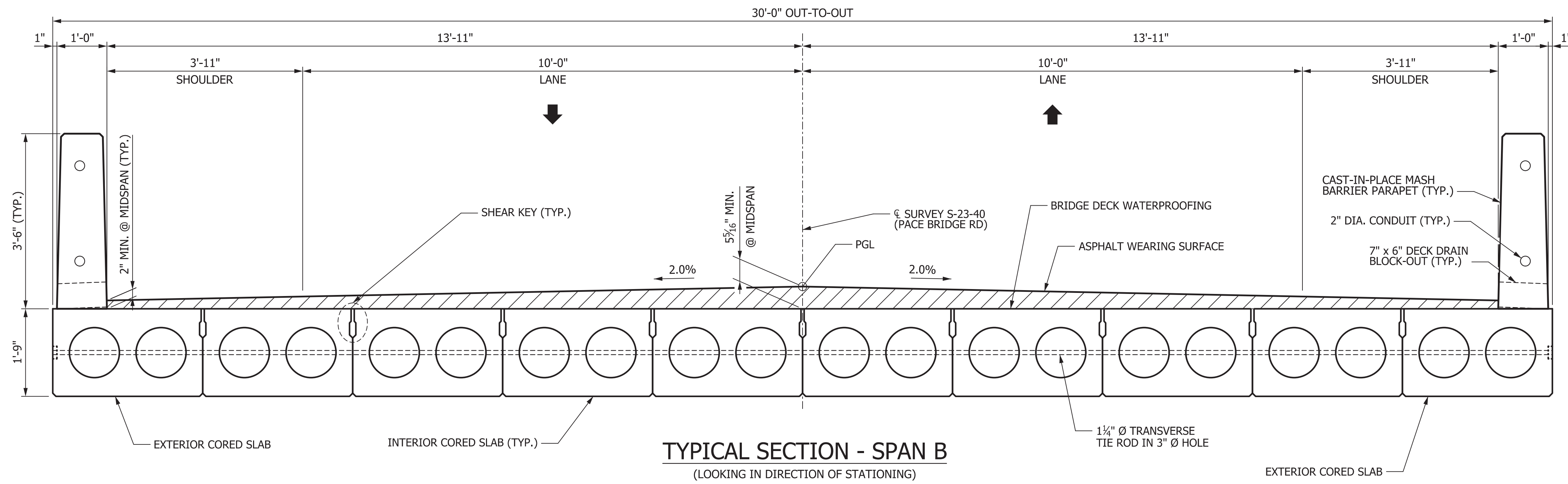
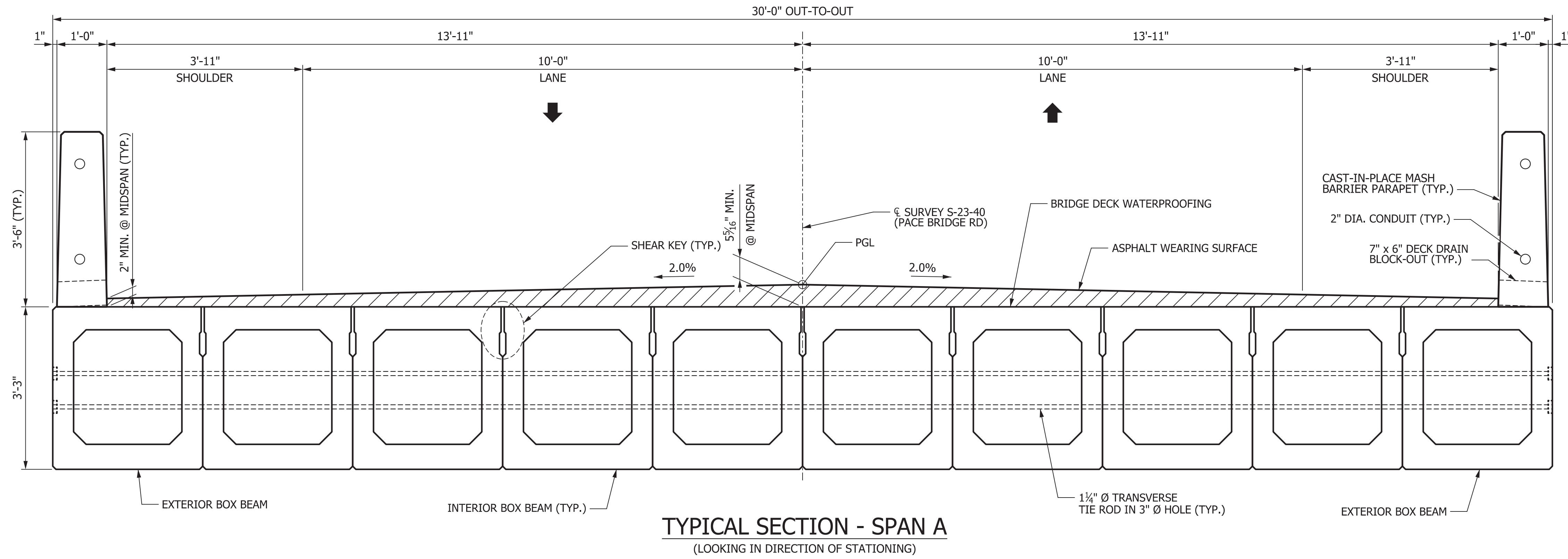
REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

QUAN.	DR.	DLH	BJA	08-24	DATE

<b>NOT FOR CONSTRUCTION</b>	CONCEPTUAL PLANS	HNTB CORPORATION SC License No. 265 4000 Center at North Hills Street, Suite 500, Raleigh, N.C. 27609
	SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION <b>BRIDGE PLAN AND PROFILE</b> S-23-40 (PACE BRIDGE RD) BRIDGE REPLACEMENT OVER SOUTH SALUDA RIVER COUNTY: GREENVILLE ROUTE: S-23-40	

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.





CADD FILE INFORMATION 1:48:00 PM  
 PLOTTED DATE 9/25/2024  
 FILE NAME ...S-23-40 over South Saluda River\_sx\_Microstation  
 USER NAME dhorton

REV.	DATE	BY	CHK.	DESCRIPTION OF REVISION

QUAN.	DR.	DLH	BJA	DATE

<b>NOT FOR CONSTRUCTION</b>	CONCEPTUAL PLANS	<b>HNTB</b> HNTB CORPORATION SC License No. 265 4000 Center at North Hills Street, Suite 500, Raleigh, N.C. 27609
		SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
		<b>BRIDGE TYPICAL SECTION</b>  S-23-40 (PACE BRIDGE RD) BRIDGE REPLACEMENT OVER SOUTH SALUDA RIVER COUNTY: GREENVILLE ROUTE: S-23-40

INDEX OF SHEETS

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2. BRIDGE PLAN AND PROFILE
3. BRIDGE TYPICAL SECTION



SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

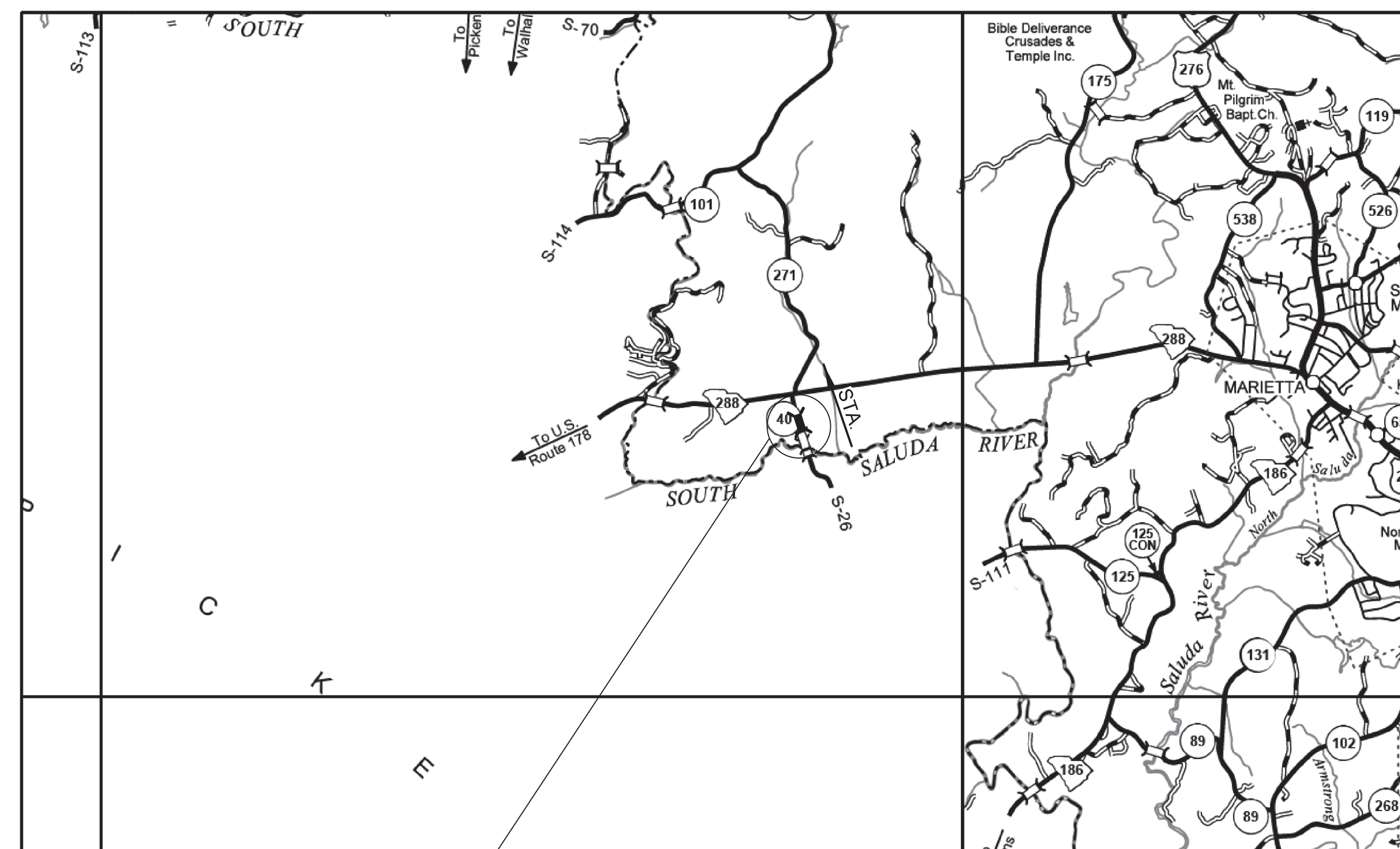


# PROPOSED PLANS FOR GREENVILLE COUNTY PROJECT ID P043137 ROUTE S-23-40 (PACE BRIDGE RD) REPLACE BRIDGE OVER SOUTH SALUDA OVERFLOW

DESIGN REFERENCE FOR THESE PLANS IS THE:

## LVB

SUPPLEMENTAL DESIGN CRITERIA FOR  
LOW VOLUME BRIDGE REPLACEMENT PROJECTS



APPROXIMATE LOCATION OF BRIDGE IS

LATITUDE 35°- 00' - 48" N

LONGITUDE 82°- 34' - 16" 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			
2025	ADT	600	V.P.D.
2045*	ADT	800	V.P.D.
TRUCKS		8	%

\* DESIGN TRAFFIC DATA

NET LENGTH OF ROADWAY	0.000	MILES
NET LENGTH OF BRIDGES	0.015	MILES
NET LENGTH OF PROJECT	0.015	MILES
LENGTH OF EXCEPTIONS	0.000	MILES
GROSS LENGTH OF PROJECT	0.015	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 2:29:35 PM  
PLOTTED DATE 10/1/2024  
FILE NAME ...S-23-40 over Saluda Overflow.ts\_Microstation  
USER NAME MWright

REVIEWED	CCC
DR.	MEW
BY	BJA
CHK.	08-24
DATE	



35+00 36+00 37+00

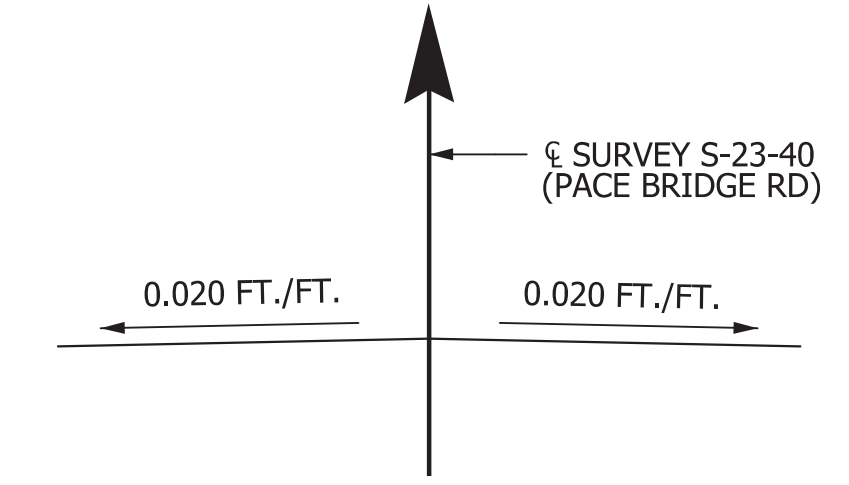
- NOTES:
- (A) PROPOSED PROFILE SET SO THAT THE LOW CHORD SATISFIES THE HYDRAULIC REQUIREMENTS, SET FORTH BY THE RFP.
  - (B) INCLUDES 1'-0" MASH BARRIER PARAPET AND 1" SLAB EXTENSION.
  - (C) REMOVE AND DISPOSE OF EXISTING 24'-0" x 56'-0" 4-SPAN SIMPLE CONCRETE SLAB BRIDGE AND APPURTENANCES IN ACCORDANCE WITH SECTION 202.4.2 OF THE STANDARD SPECIFICATIONS.

F - DENOTES FIXED BEARING  
 = EXCAVATE HATCHED AREA

**CONTROL POINTS**

CP8  
 ELEVATION = 916.50  
 N 1160363.49 E 1529632.64  
 BRDG NL

CP9  
 ELEVATION = 916.78  
 N 1160955.98 E 1529406.37  
 BRDG NL



TYPICAL THROUGHOUT BRIDGE SUPERELEVATION SKETCH

VERTICAL CURVE DATA	
PVI = 33+50.00	PVI = 37+00.00
ELEV. 921.16	ELEV. 919.41
V.C. = 135'	V.C. = 135'

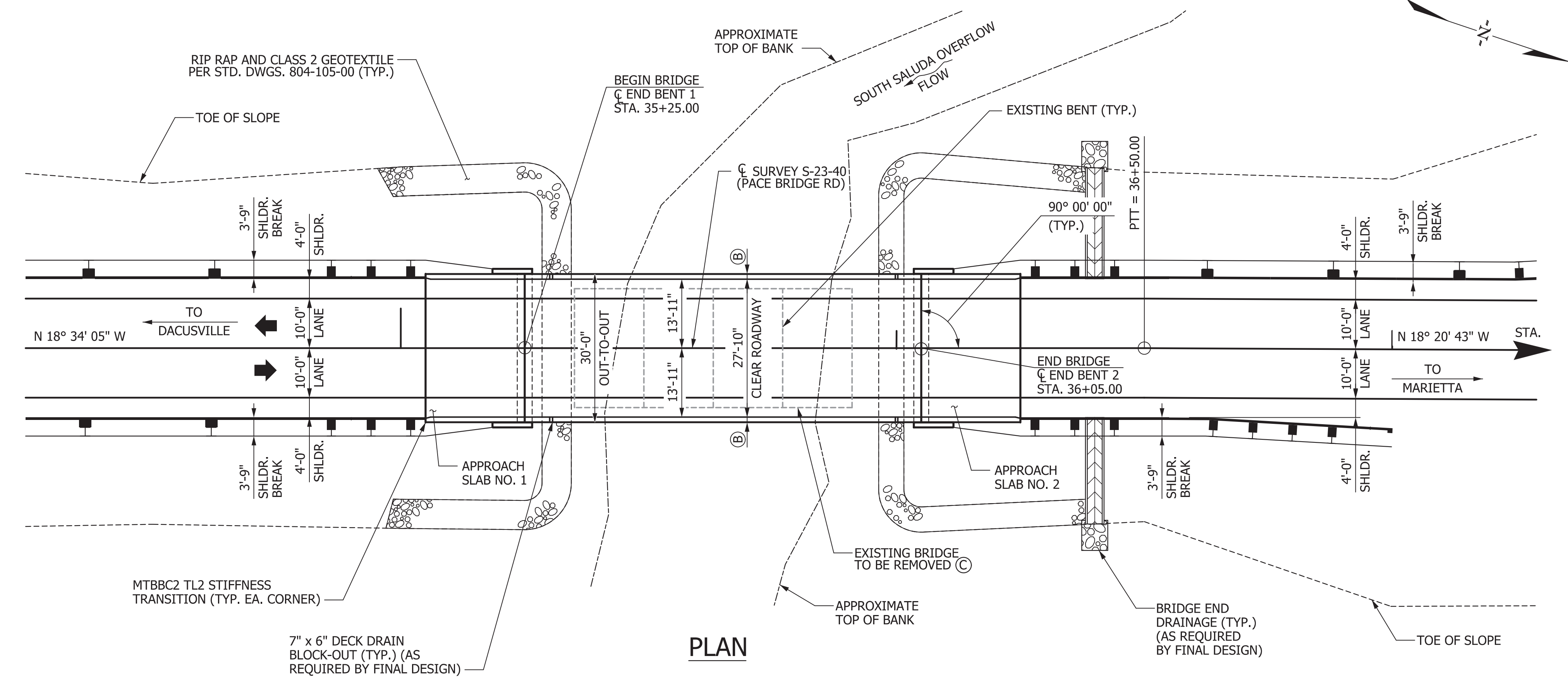
**HYDROLOGY DATA**

D.A. = 98.4 SQ. MILES  
 Q<sub>25</sub> = 9,590 CFS  
 VELOCITY<sub>25</sub> = 9.4 FPS  
 AREA FURNISHED UNDER<sub>25</sub> = 810.6 SQ. FT.  
 Q<sub>100</sub> = 13,600 CFS  
 VELOCITY<sub>100</sub> = 11.5 FPS  
 AREA FURNISHED UNDER<sub>100</sub> = 903.1 SQ. FT.

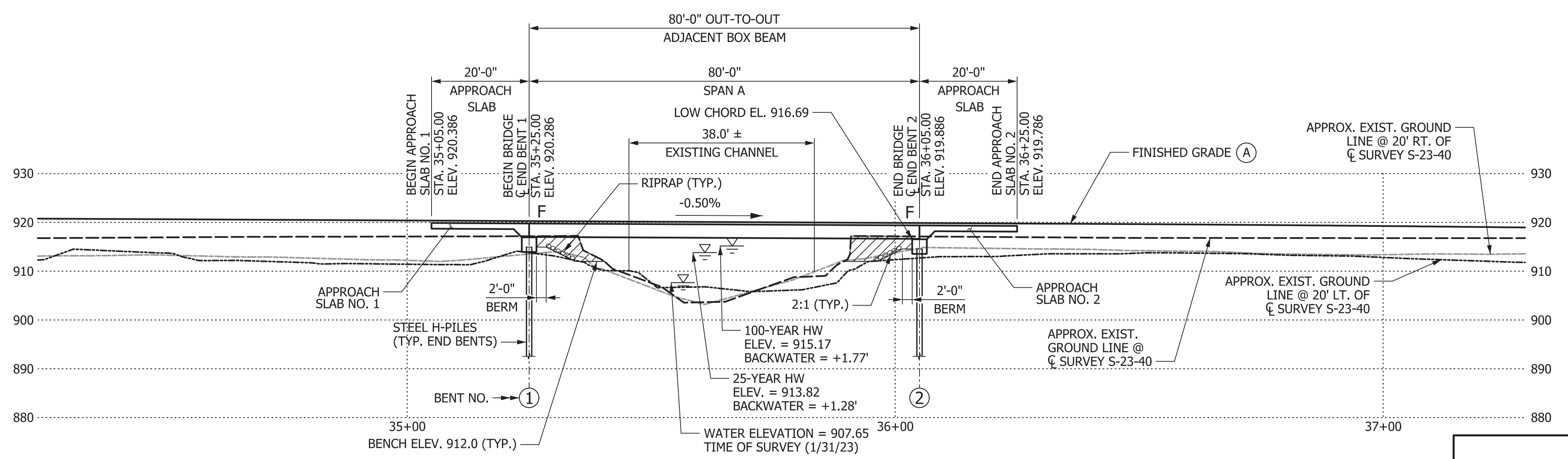
**OVERTOPPING FLOOD**

Q = 18,300 CFS  
 PROBABILITY < 0.2%

NOTE: HYDROLOGY DATA AND OVERTOPPING FLOOD IS FOR THE ENTIRE SOUTH SALUDA RIVER FLOODPLAIN



PLAN



SECTION ALONG SURVEY CL S-23-40

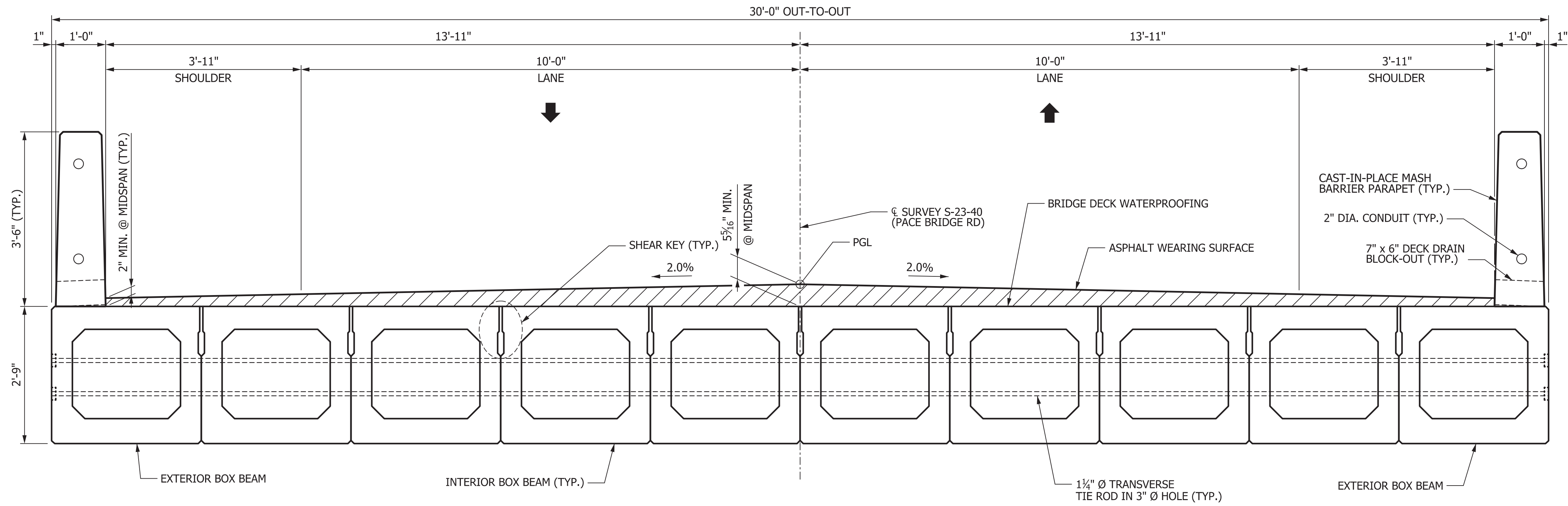
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 USER NAME MWright

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

QUAN.	DR.	DES.	BY	CHK.	DATE
	DLH				08-24

<b>NOT FOR CONSTRUCTION</b>	CONCEPTUAL PLANS	HNTB CORPORATION SC License No. 265 4000 Center at North Hills Street, Suite 500, Raleigh, N.C. 27609
	SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION	
	BRIDGE PLAN AND PROFILE	
S-23-40 (PACE BRIDGE RD) BRIDGE REPLACEMENT OVER SOUTH SALUDA OVERFLOW		COUNTY: GREENVILLE ROUTE: S-23-40

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.



**TYPICAL SECTION**  
(LOOKING IN DIRECTION OF STATIONING)

CADD FILE INFORMATION 2:28:50 PM  
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 FILE NAME ...S-23-40 over Saluda Overflow\_sx\_Microstation  
 USER NAME MWright

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

QUAN.	DR.	DLH	BJA	DATE

<b>NOT FOR CONSTRUCTION</b>	CONCEPTUAL PLANS	<b>HNTB</b> HNTB CORPORATION SC License No. 265 4000 Center at North Hills Street, Suite 500, Raleigh, N.C. 27609
		SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
		<b>BRIDGE TYPICAL SECTION</b> S-23-40 (PACE BRIDGE RD) BRIDGE REPLACEMENT OVER SOUTH SALUDA OVERFLOW
		COUNTY: GREENVILLE
		ROUTE: S-23-40



INDEX OF SHEETS

1. TITLE SHEET
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3. BRIDGE TYPICAL SECTION



SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

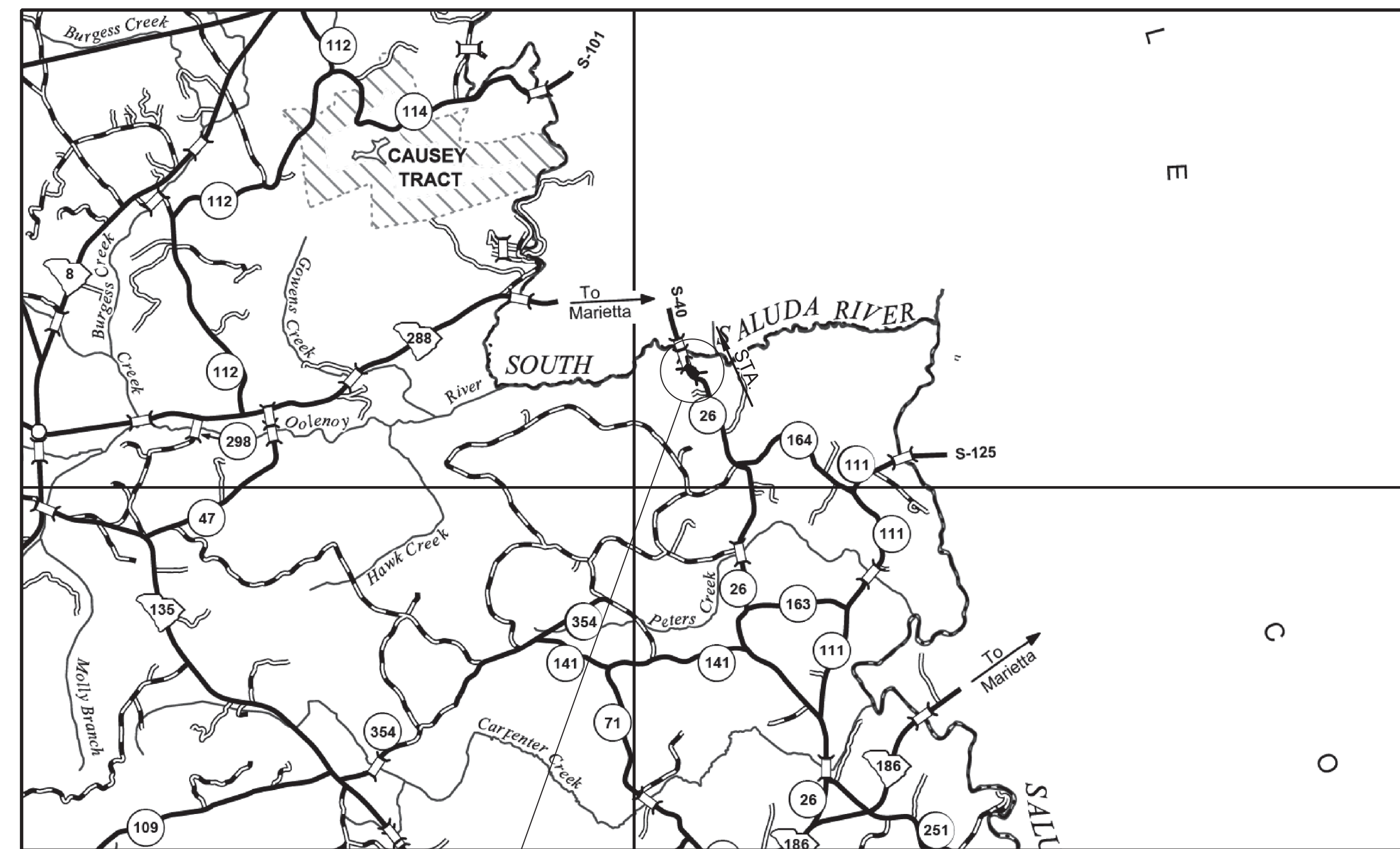


**PROPOSED PLANS**  
**FOR**  
**PICKENS COUNTY**  
**PROJECT ID P043138**  
**ROUTE S-39-26 (PACE BRIDGE RD)**  
**REPLACE BRIDGE OVER TRIBUTARY TO SOUTH SALUDA RIVER**

DESIGN REFERENCE FOR THESE PLANS IS THE:

**LVB**

SUPPLEMENTAL DESIGN CRITERIA FOR  
LOW VOLUME BRIDGE REPLACEMENT PROJECTS



SITE LOCATION      LAYOUT

Approximate Location of Bridge is	
Latitude	35°-00'-41" N
Longitude	82°-34'-13" W

CADD FILE INFORMATION 10:38:36 AM  
 PLOTTED DATE 9/20/2024  
 FILE NAME ...S-39-26 Tributary to Saluda River\_is\_Microstation  
 USER NAME dhorton

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	600	V.P.D.
2045*	ADT	800*	V.P.D.
TRUCKS		8	%
* DESIGN TRAFFIC DATA			

NET LENGTH OF ROADWAY	0.000	MILES
NET LENGTH OF BRIDGES	0.013	MILES
NET LENGTH OF PROJECT	0.013	MILES
LENGTH OF EXCEPTIONS	0.000	MILES
GROSS LENGTH OF PROJECT	0.013	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**

REVIEWED	CCC	DATE
DR.	MEW	08-24
BY	CHK.	DATE



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 28'-0" x 45'-0" 3-SPAN SIMPLE CONCRETE SLAB BRIDGE AND APPURTENANCES IN ACCORDANCE WITH SECTION 202.4.2 OF THE STANDARD SPECIFICATIONS.

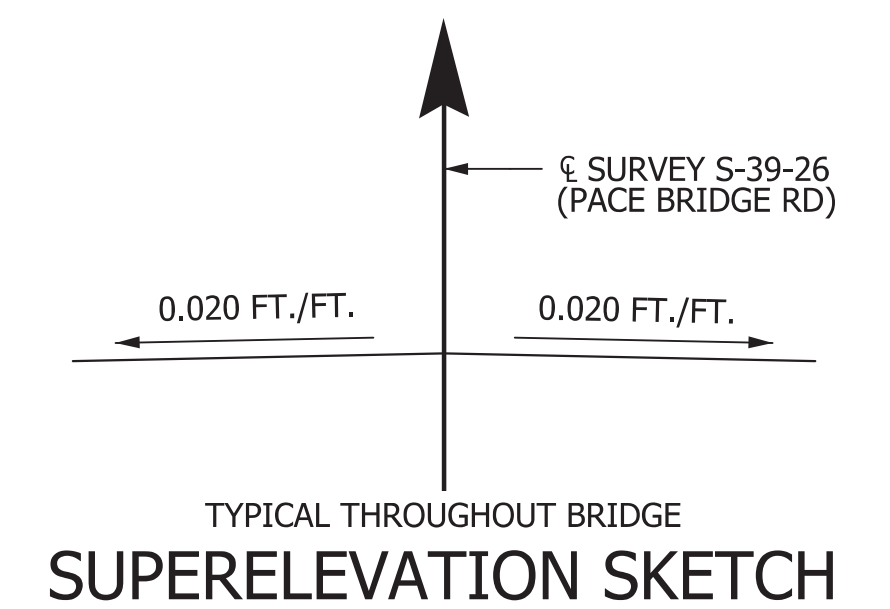
F - DENOTES FIXED BEARING

= EXCAVATE HATCHED AREA

**CONTROL POINTS**

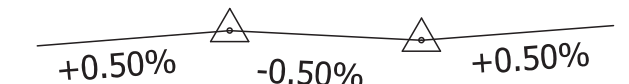
CP7  
ELEVATION = 916.75  
N 1159752.28 E 1529808.50  
BRDG NL

CP8  
ELEVATION = 916.50  
N 1160363.49 E 1529632.64  
BRDG NL



**VERTICAL CURVE DATA**

PVI = 27+10.00	PVI = 29+60.00
ELEV. 920.46	ELEV. 919.21
V.C. = 135'	V.C. = 135'



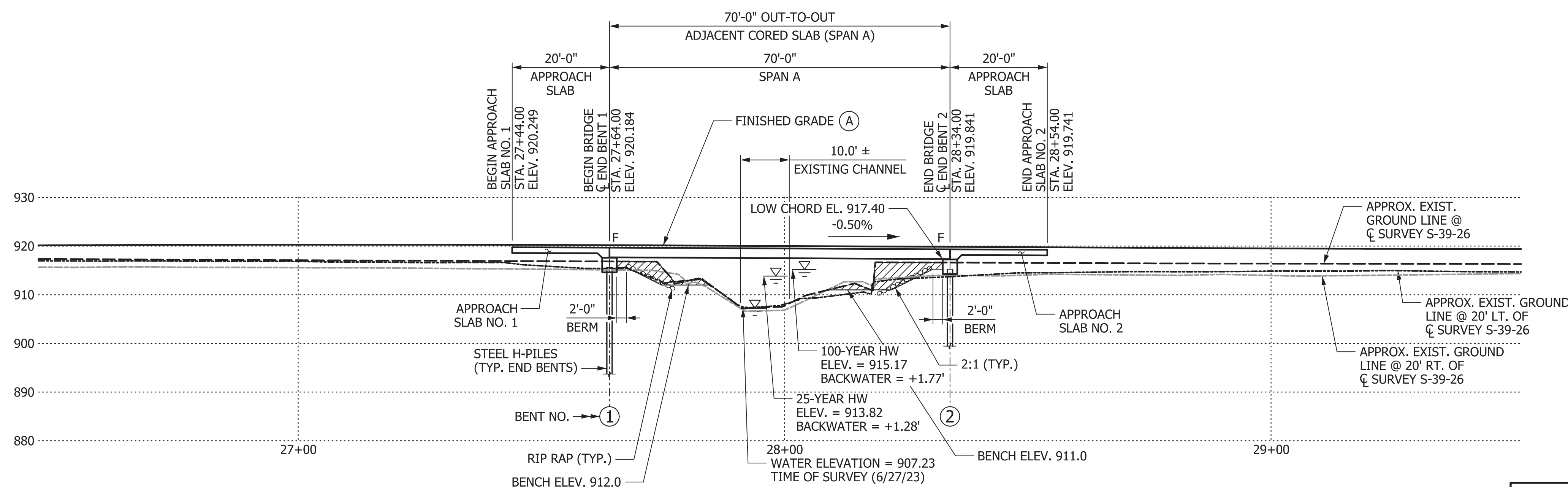
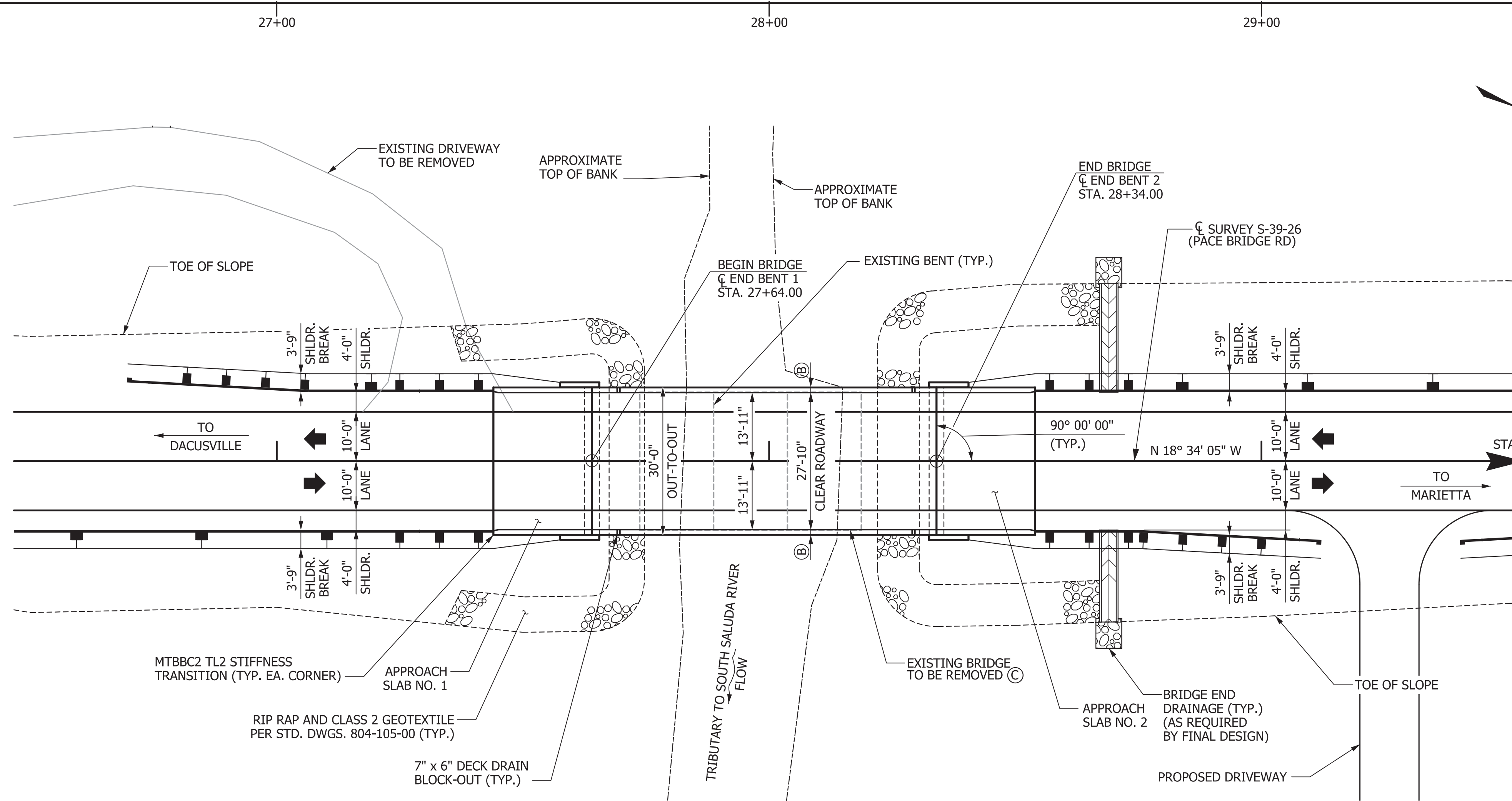
**HYDROLOGY DATA**

D.A. = 98.4 SQ. MILES  
Q<sub>25</sub> = 9,590 CFS  
VELOCITY<sub>25</sub> = 9.4 FPS  
AREA FURNISHED UNDER<sub>25</sub> = 810.6 SQ. FT.  
Q<sub>100</sub> = 13,600 CFS  
VELOCITY<sub>100</sub> = 11.5 FPS  
AREA FURNISHED UNDER<sub>100</sub> = 903.1 SQ. FT.

**OVERTOPPING FLOOD**

Q = 18,300 CFS  
PROBABILITY < 0.2%

NOTE: HYDROLOGY DATA AND OVERTOPPING FLOOD IS FOR THE ENTIRE SOUTH SALUDA RIVER FLOODPLAIN



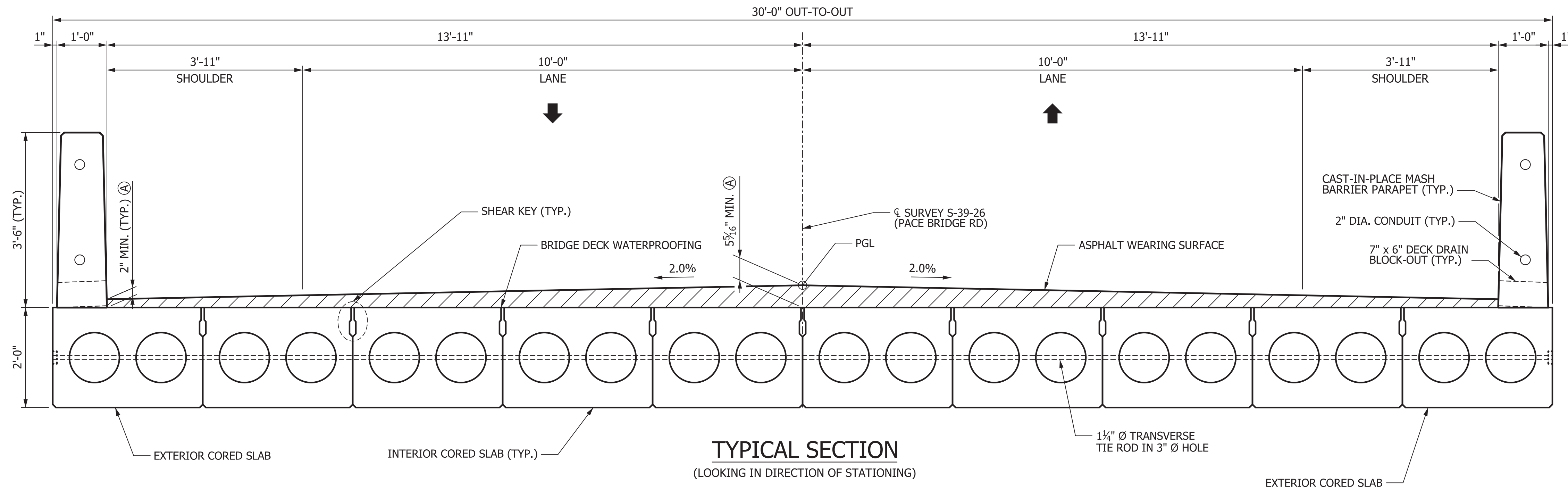
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 PLOTTED DATE 10/27/2024  
 FILE NAME ...S-39-26 Tributary to Saluda River\_bp\_Microstation  
 USER NAME dhorton

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

QUAN.	DR.	DES.	BY	CHK.	DATE

<b>NOT FOR CONSTRUCTION</b>	<b>CONCEPTUAL PLANS</b>	<b>HNTB</b> HNTB CORPORATION SC License No. 265 4000 Center at North Hills Street, Suite 500, Raleigh, N.C. 27609
	<b>SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION</b>	
	<b>BRIDGE PLAN AND PROFILE</b>	
S-39-26 (PACE BRIDGE RD) BRIDGE REPLACEMENT OVER TRIBUTARY TO SOUTH SALUDA RIVER		COUNTY: PICKENS      ROUTE: S-39-26





**TYPICAL SECTION**  
(LOOKING IN DIRECTION OF STATIONING)

**NOTES:**

Ⓐ DUE TO BEAM CAMBER AND THE VERTICAL CURVE ORDINATES, THE MINIMUM THICKNESS MAY NOT OCCUR AT MIDSPAN. THE OVERLAY THICKNESS WILL NEED TO BE ADJUSTED IN ORDER TO MAINTAIN THE MINIMUM OVERLAY THICKNESS ACROSS THE BRIDGE.

CADD FILE INFORMATION 2:39:24 PM  
 PLOTTED DATE 9/20/2024  
 FILE NAME ...S-39-26 Tributary to Saluda River\_sx\_Microstation  
 USER NAME dhorton

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

QUAN.	DR.	DES.	MEW	BJA	BY	CHK.	DATE

<b>NOT FOR CONSTRUCTION</b>	CONCEPTUAL PLANS	HNTB CORPORATION SC License No. 265 4000 Center at North Hills Street, Suite 500, Raleigh, N.C. 27609
	SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION	
	<b>BRIDGE TYPICAL SECTION</b> S-39-26 (PACE BRIDGE RD) BRIDGE REPLACEMENT OVER TRIBUTARY TO SOUTH SALUDA RIVER	
		COUNTY: PICKENS
		ROUTE: S-39-26

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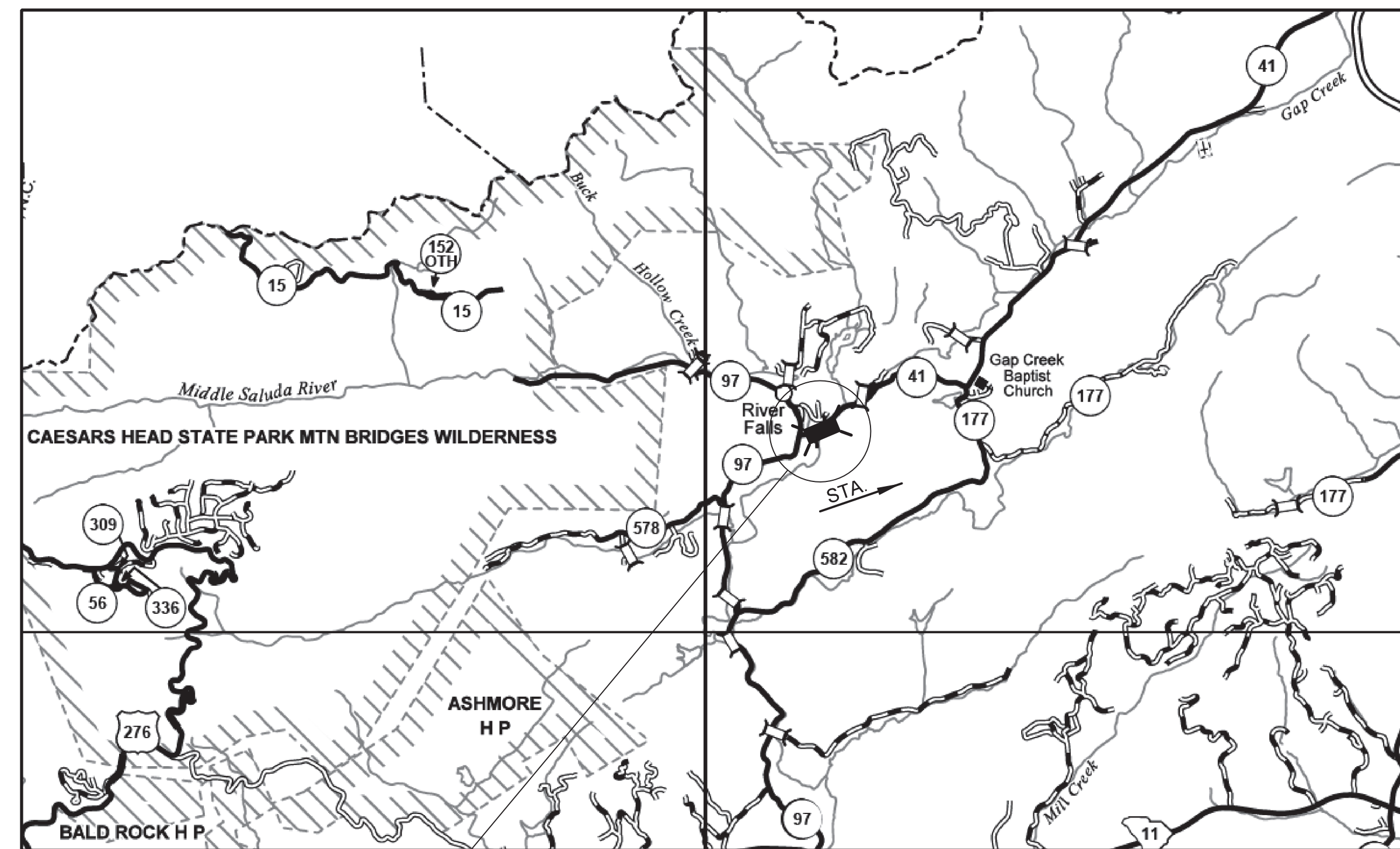
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

PROPOSED PLANS  
FOR  
GREENVILLE COUNTY  
PROJECT ID P041159  
ROUTE S-23-41 (GAP CREEK RD)  
REPLACE BRIDGE OVER MIDDLE SALUDA RIVER

DESIGN REFERENCE FOR THESE PLANS IS THE:

**LVB**

SUPPLEMENTAL DESIGN CRITERIA FOR  
LOW VOLUME BRIDGE REPLACEMENT PROJECTS



Approximate Location of Bridge is  
Latitude 35°-07'-13" N  
Longitude 82°-32'-15" W

LAYOUT  
SITE LOCATION

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 240	V.P.D.
2045*	ADT 360*	V.P.D.
TRUCKS 8 %		
* DESIGN TRAFFIC DATA		

NET LENGTH OF ROADWAY	0.000	MILES
NET LENGTH OF BRIDGES	0.019	MILES
NET LENGTH OF PROJECT	0.019	MILES
LENGTH OF EXCEPTIONS	0.000	MILES
GROSS LENGTH OF PROJECT	0.019	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.

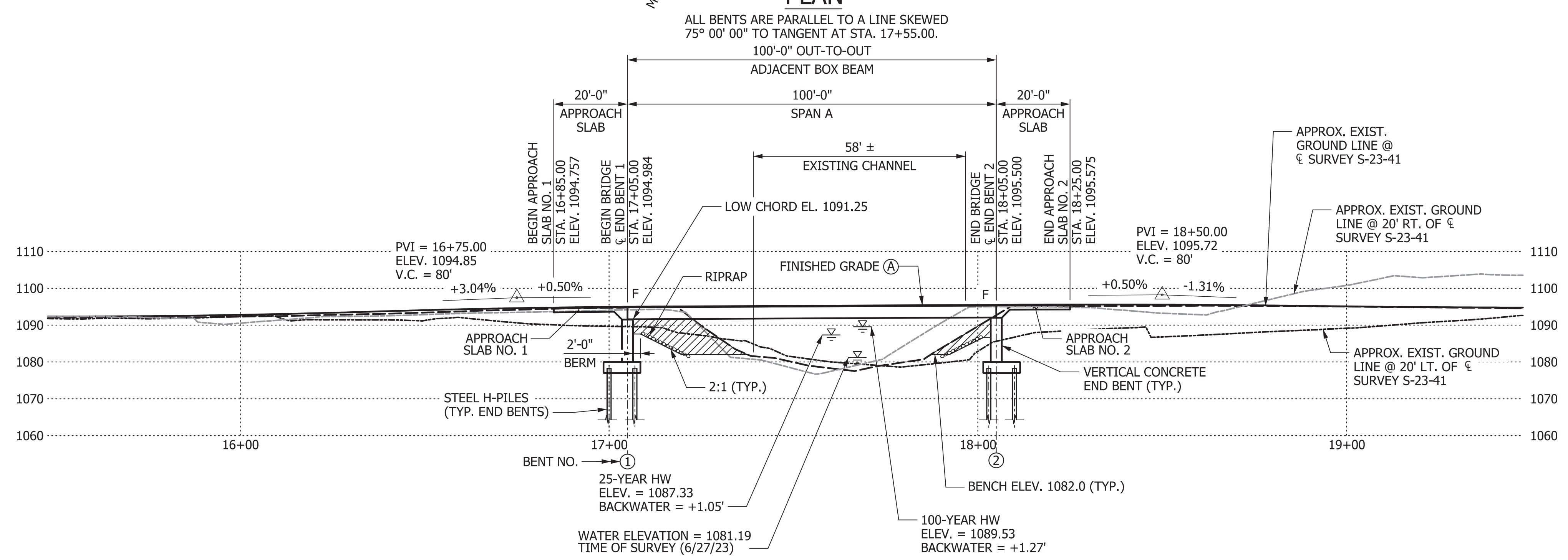
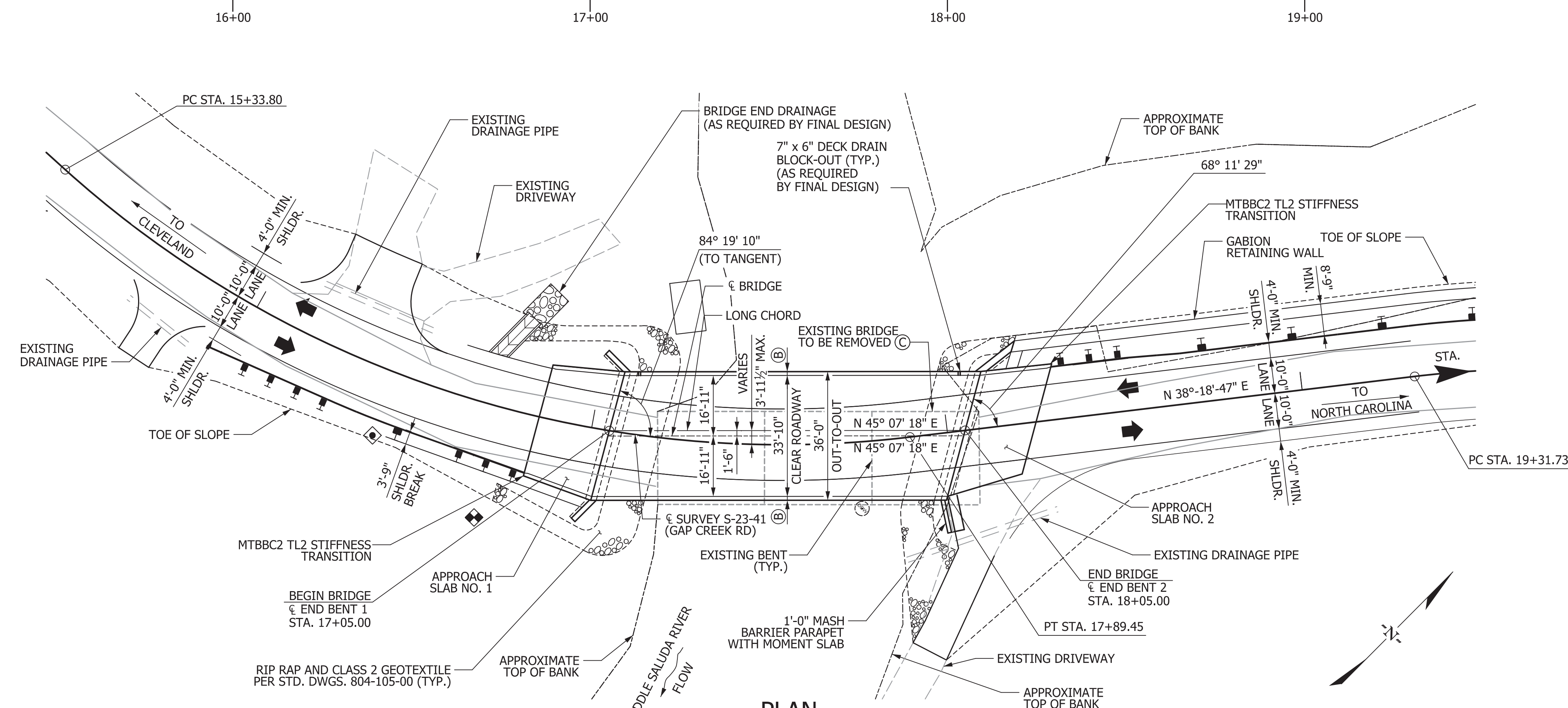
CONSULTING  
ENGINEERING FIRM  
**HNTB**  
HNTB CORPORATION  
SC License No. 265  
4000 Center at North Hills Street, Suite 500, Raleigh, N.C. 27609

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

CADD FILE INFORMATION 2:54:58 PM  
PLOTTED DATE 10/1/2024  
FILE NAME ...S-23-41 over Middle Saluda.ts\_Microstation  
USER NAME MWright

REVIEWED	CCC	BY	CHK.	DATE
DR.	MEW	BJA	08-24	



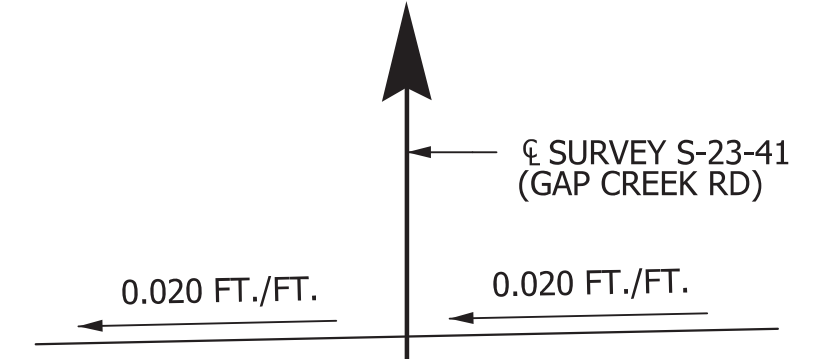


- NOTES:
- (A) PROPOSED PROFILE SET SO THAT THE LOW CHORD SATISFIES THE HYDRAULIC REQUIREMENTS, SET FORTH BY THE RFP.
  - (B) INCLUDES 1'-0" MASH BARRIER PARAPET AND 1" SLAB EXTENSION.
  - (C) REMOVE AND DISPOSE OF EXISTING 27'-6" x 90'-0" 3-SPAN SIMPLE CONCRETE SLAB BRIDGE AND APPURTENANCES IN ACCORDANCE WITH SECTION 202.4.2 OF THE STANDARD SPECIFICATIONS.
- F - DENOTES FIXED BEARING
- ▨ = EXCAVATE HATCHED AREA

**CONTROL POINTS**

CP5  
ELEVATION = 1093.52  
N 1199384.95 E 1540040.07  
BRDG NL

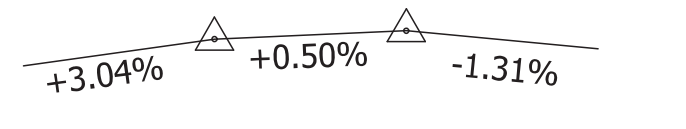
CP6  
ELEVATION = 1093.89  
N 1199627.10 E 1540274.34  
BRDG NL



**TYPICAL THROUGHOUT BRIDGE SUPERELEVATION SKETCH**

**VERTICAL CURVE DATA**

PVI = 16+75.00 ELEV. 1094.85 V.C. = 80'	PVI = 18+50.00 ELEV. 1095.72 V.C. = 80'
---	---



**HORIZONTAL CURVE DATA**

P.I. = 16+69.96 Δ = 48°-49'-31" (LT) D = 19°-05'-55" T = 136.17' L = 255.65' E = 4.80' R = 300.00'	P.I. = 19+68.60 Δ = 14°-00'-45" (RT) D = 19°-05'-55" T = 36.87' L = 73.37' E = 3.71' R = 300.00'
--	--

**HYDROLOGY DATA**

D.A. = 20.8 SQ. MILES  
Q<sub>25</sub> = 3,030 CFS  
VELOCITY<sub>25</sub> = 8.6 FPS  
AREA FURNISHED UNDER<sub>25</sub> = 670.0 SQ. FT.  
Q<sub>100</sub> = 4,460 CFS  
VELOCITY<sub>100</sub> = 9.4 FPS  
AREA FURNISHED UNDER<sub>100</sub> = 895.0 SQ. FT.

**OVERTOPPING FLOOD**

Q = 7,500 CFS  
PROBABILITY <0.2%

**SECTION ALONG SURVEY CL S-23-41**

**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 PLAN AND PROFILE**

S-23-41 (GAP CREEK RD) BRIDGE  
REPLACEMENT OVER MIDDLE SALUDA RIVER

COUNTY: GREENVILLE ROUTE: S-23-41

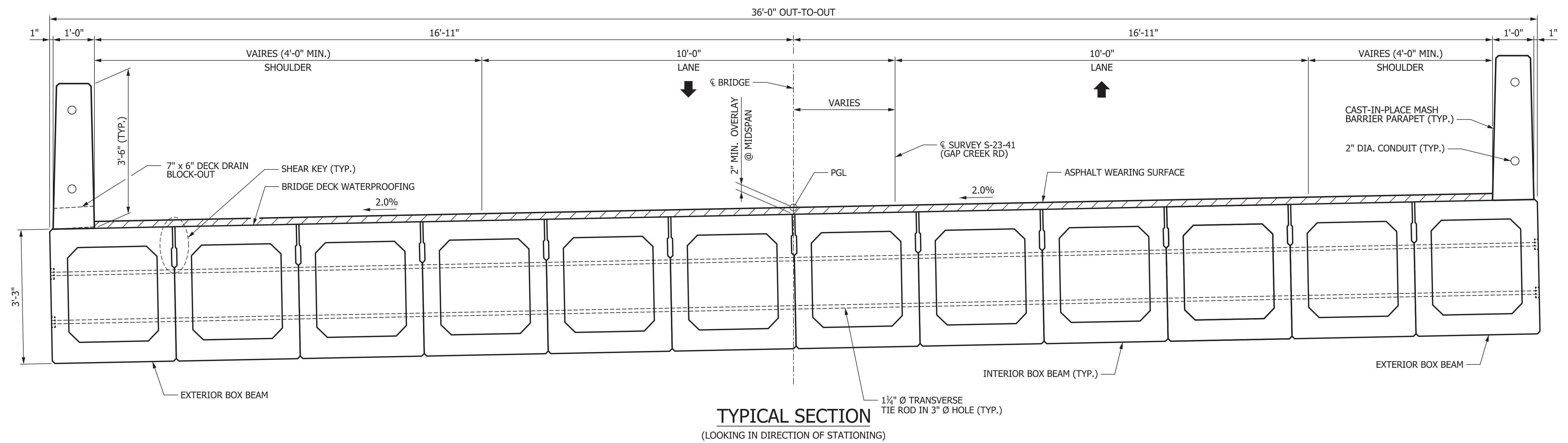
**NOT FOR CONSTRUCTION**

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.

CADD FILE INFORMATION 2:47:59 PM  
PLOTTED DATE 10/2/2024  
FILE NAME ...S-23-41 over Middle Saluda\_bp\_Microstation  
USER NAME MWright

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

QUAN.	DR.	DES.	BY	CHK.	DATE



CADD FILE INFORMATION 2:56:20 PM  
 PLOTTED DATE 10/1/2024  
 FILE NAME ...S-23-41 over Middle Saluda\_sx\_Microstation  
 USER NAME MWright

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

QUAN.	DR.	DLH	BJA	DATE

<b>NOT FOR CONSTRUCTION</b>	CONCEPTUAL PLANS	<b>HNTB</b> HNTB CORPORATION SC License No. 265 4000 Center at North Hills Street, Suite 500, Raleigh, N.C. 27609
		SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
		<b>BRIDGE TYPICAL SECTION</b> S-23-41 (GAP CREEK RD) BRIDGE REPLACEMENT OVER MIDDLE SALUDA RIVER COUNTY: GREENVILLE ROUTE: S-23-41



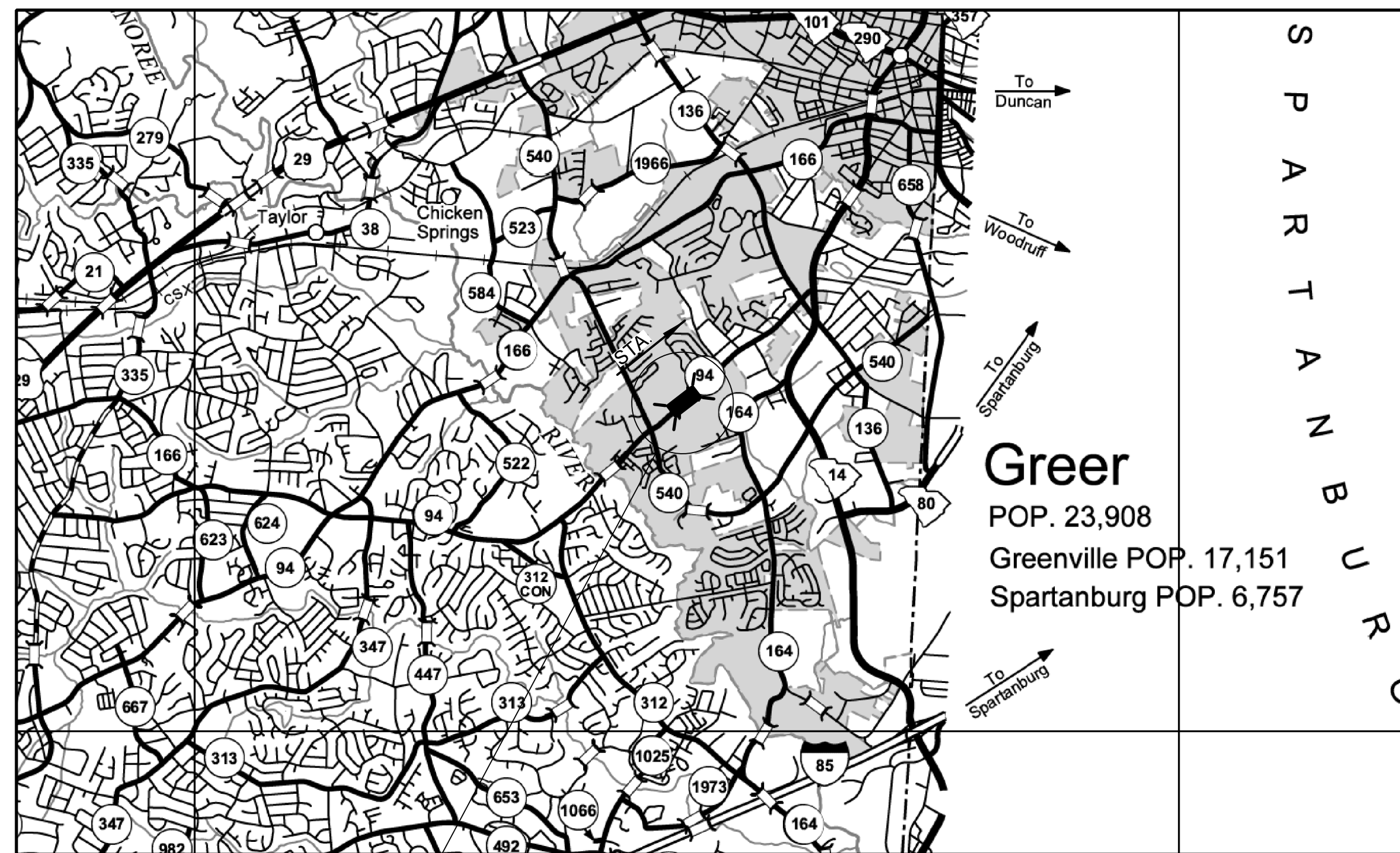
INDEX OF SHEETS

1. TITLE SHEET
2. BRIDGE PLAN AND PROFILE
3. BRIDGE TYPICAL SECTION



SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

# PROPOSED PLANS FOR GREENVILLE COUNTY PROJECT ID P041163 ROUTE S-23-94 (HAMMETT BRIDGE RD) REPLACE BRIDGE OVER SUBER BRANCH



Approximate Location of Bridge is  
Latitude 34°-54'-15" N  
Longitude 82°-15'-09" 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			
2025	ADT	11000	V.P.D.
2045*	ADT	21000*	V.P.D.
TRUCKS		2	%
* DESIGN TRAFFIC DATA			

NET LENGTH OF ROADWAY	0.000	MILES
NET LENGTH OF BRIDGES	0.020	MILES
NET LENGTH OF PROJECT	0.020	MILES
LENGTH OF EXCEPTIONS	0.000	MILES
GROSS LENGTH OF PROJECT	0.020	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**

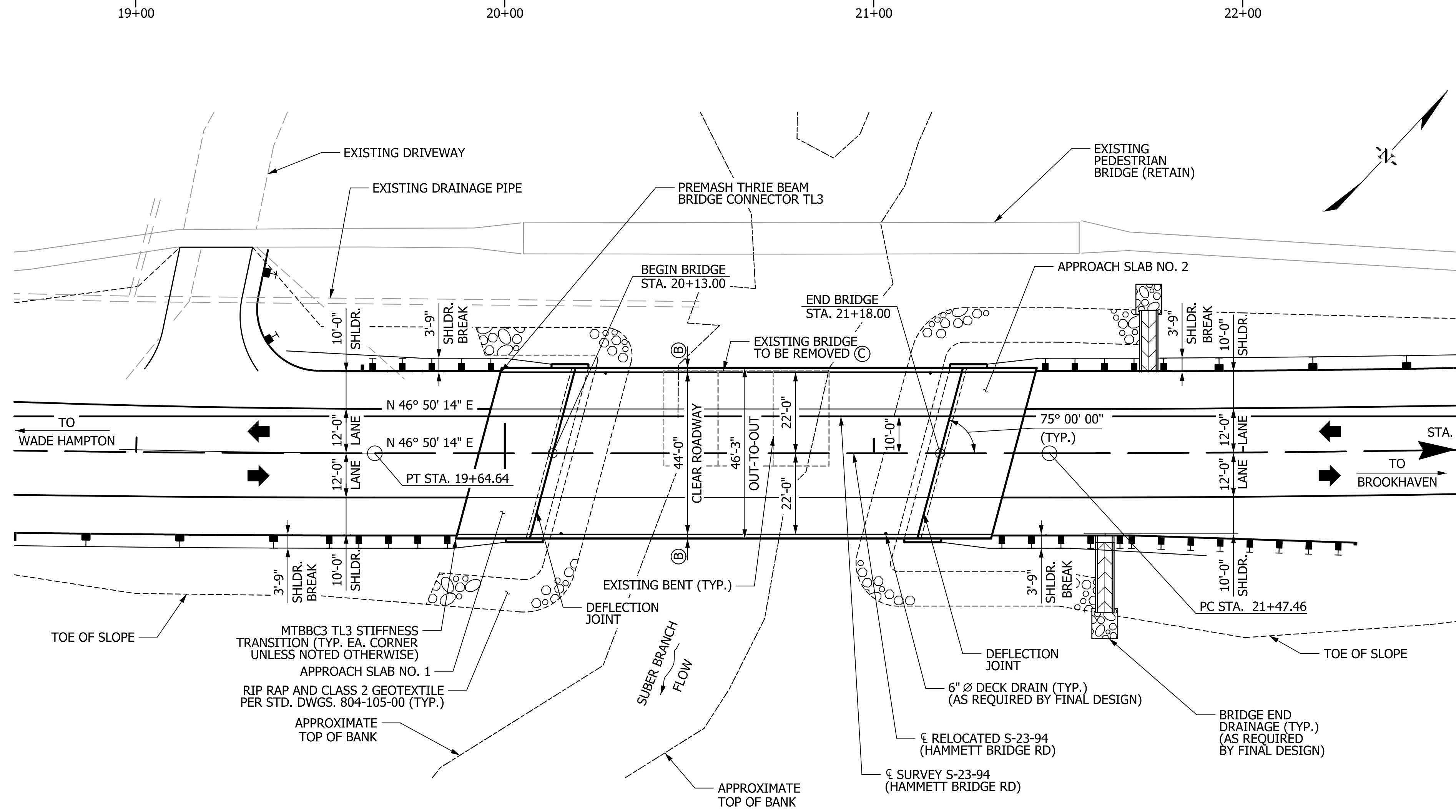
HNTB CORPORATION  
SC License No. 265  
4000 Center at North Hills Street, Suite 500, Raleigh, N.C. 27609

ENGINEER OF RECORD

**CONCEPTUAL  
PLANS  
NOT FOR  
CONSTRUCTION**

CADD FILE INFORMATION 2:08:47 PM  
 PLOTTED DATE 10/4/2024  
 FILE NAME ...S-23-94 over Suber Branch\_ts\_Microstation  
 USER NAME dhorton

REVIEWED	CCC	DLH	BJA	08-24
DR.	BY	CHK.	DATE	



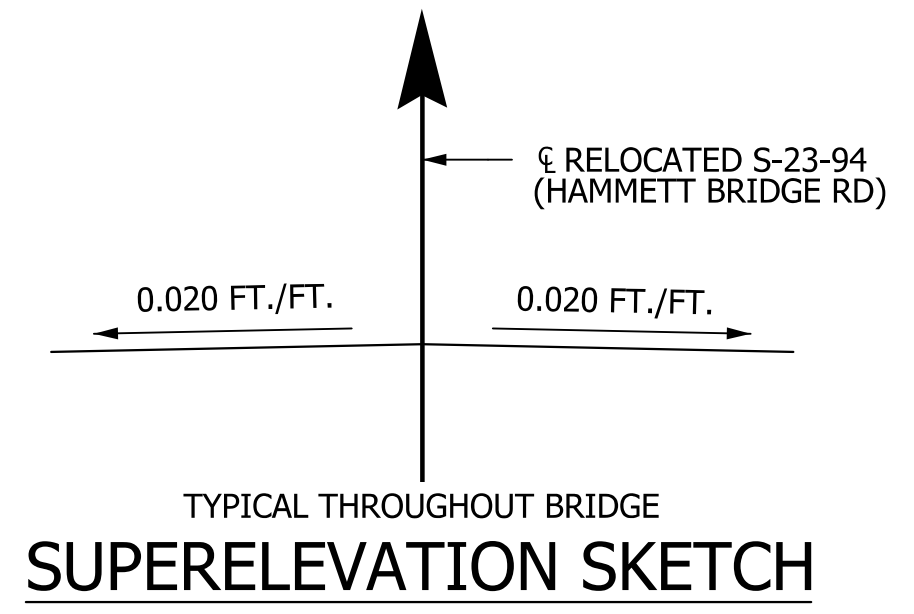
- NOTES:
- (A) PROPOSED PROFILE SET SO THAT THE LOW CHORD SATISFIES THE HYDRAULIC REQUIREMENTS, SET FORTH BY THE RFP.
  - (B) INCLUDES 1'-0" MASH BARRIER PARAPET AND 1/2" SLAB EXTENSION.
  - (C) REMOVE AND DISPOSE OF EXISTING 27'-6" x 45'-0" 3-SPAN SIMPLE CONCRETE SLAB BRIDGE AND APPURTENANCES IN ACCORDANCE WITH SECTION 202.4.2 OF THE STANDARD SPECIFICATIONS.
- I - DENOTES INTEGRAL END BENT  
 = EXCAVATE HATCHED AREA

**CONTROL POINTS**

CP6  
 ELEVATION = 852.30  
 N 1119348.42 E 1624025.36  
 BRDG NL

CP7  
 ELEVATION = 831.78  
 N 1119647.95 E 1624366.28  
 BRDG NL

CP8  
 ELEVATION = 842.55  
 N 1120073.12 E 1624824.54  
 BRDG NL



**VERTICAL CURVE DATA**

PVI = 18+10.00	PVI = 24+90.00
ELEV. 840.69	ELEV. 835.00
V.C. = 390'	V.C. = 370'

-5.73%      -0.84%      +3.81%

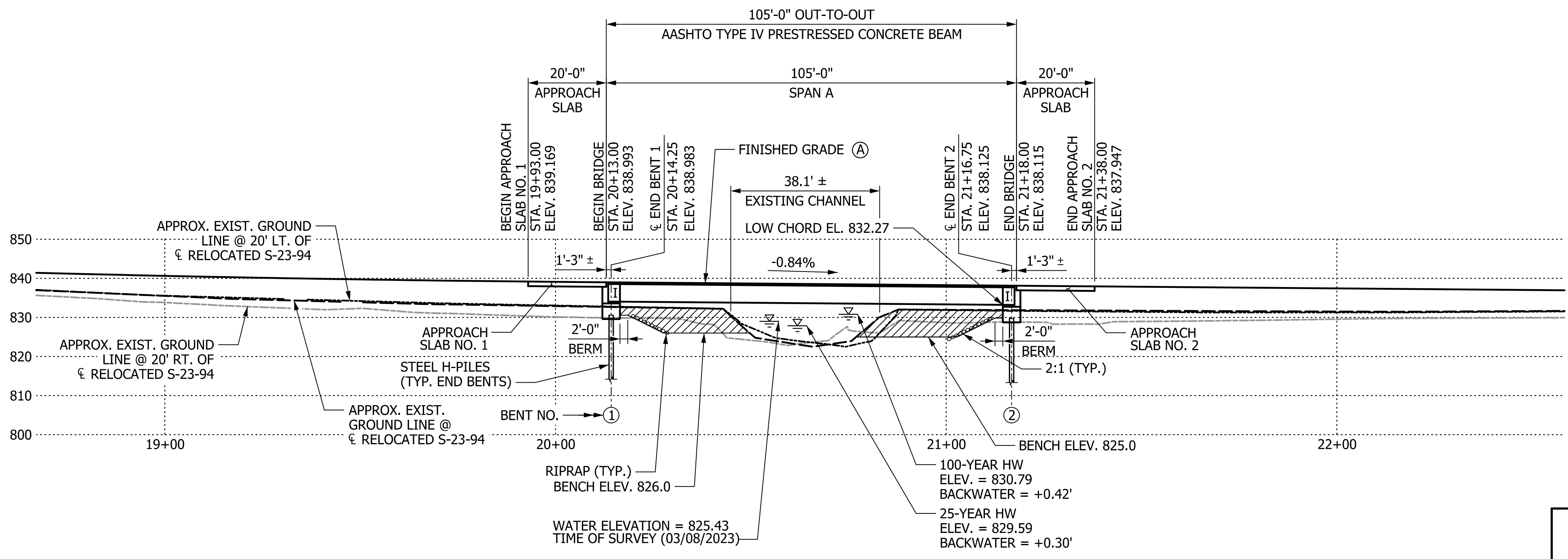
**HORIZONTAL CURVE DATA**

P.I. = 18+37.37	P.I. = 22+77.23
$\Delta = 2^\circ 15' 03"$ (LT)	$\Delta = 2^\circ 17' 41"$ (LT)
D = 0° 53' 03"	D = 0° 53' 03"
T = 127.30'	T = 129.77'
L = 254.57'	L = 259.51'
E = 1.25'	E = 1.30'
R = 6,480.00'	R = 6,480.00'

**HYDROLOGY DATA**

D.A. = 3.32 SQ. MILES  
 Q<sub>25</sub> = 1,030 CFS  
 VELOCITY<sub>25</sub> = 4.7 FPS  
 AREA FURNISHED UNDER<sub>25</sub> = 354 SQ. FT.  
 Q<sub>100</sub> = 1,490 CFS  
 VELOCITY<sub>100</sub> = 4.8 FPS  
 AREA FURNISHED UNDER<sub>100</sub> = 232 SQ. FT.

**OVERTOPPING FLOOD**  
 Q = 7,550 CFS  
 PROBABILITY < 0.2%



**SECTION ALONG  $\phi$  RELOCATED S-23-94**

CADD FILE INFORMATION 2:07:02 PM  
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 USER NAME dhorton

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

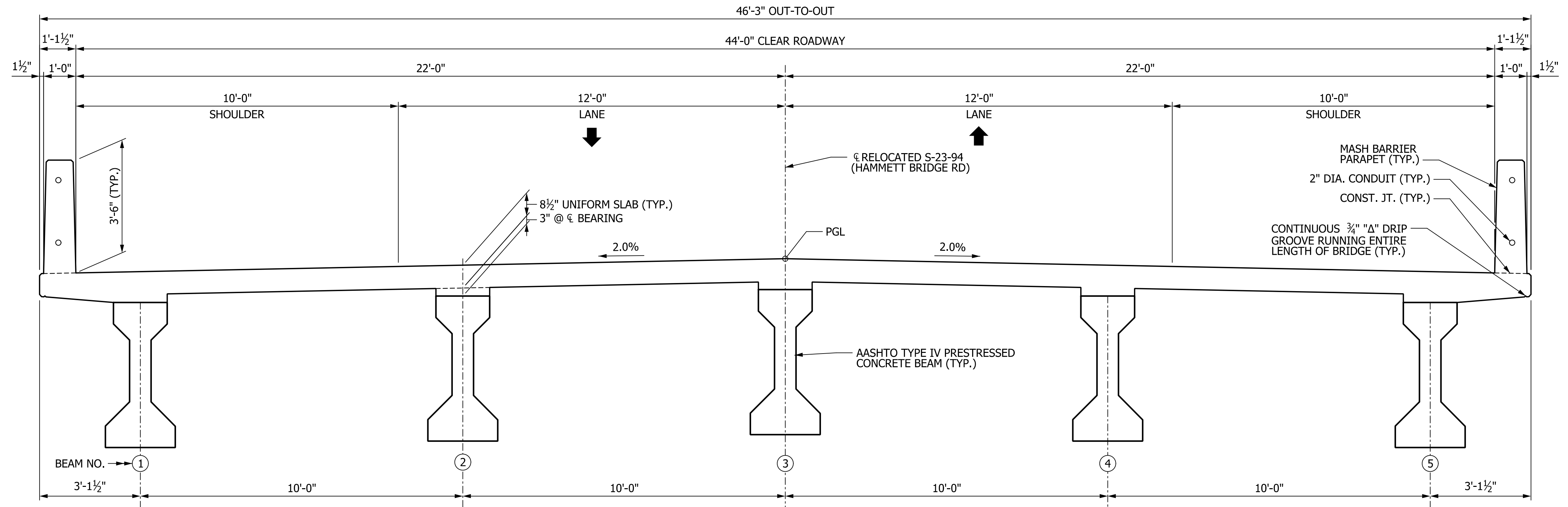
REVIEWED	CC	QUAN.	DR.	DES.	BY	CHK.	DATE

<b>NOT FOR CONSTRUCTION</b>	CONCEPTUAL PLANS	HNTB CORPORATION SC License No. 265 4000 Center at North Hills Street, Suite 500, Raleigh, N.C. 27609	
	SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION		
	BRIDGE PLAN AND PROFILE		

S-23-94 (HAMMETT BRIDGE RD) BRIDGE REPLACEMENT OVER SUBER BRANCH

COUNTY: GREENVILLE ROUTE: S-23-94





**TYPICAL SECTION**  
(LOOKING IN DIRECTION OF STATIONING)

CADD FILE INFORMATION 2:08:09 PM  
PLOTTED DATE 10/4/2024  
FILE NAME ...S-23-94 over Suber Branch\_sx\_Microstation  
USER NAME dhorton

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

QUAN.	DR.	DES.	DLH	BJA	BY	CHK.	DATE

<b>NOT FOR CONSTRUCTION</b>	CONCEPTUAL PLANS	<b>HNTB</b> HNTB CORPORATION SC License No. 265 4000 Center at North Hills Street, Suite 500, Raleigh, N.C. 27609
	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.	SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
		<b>BRIDGE TYPICAL SECTION</b>  S-23-94 (HAMMETT BRIDGE RD) BRIDGE REPLACEMENT OVER SUBER BRANCH  COUNTY: GREENVILLE ROUTE: S-23-94

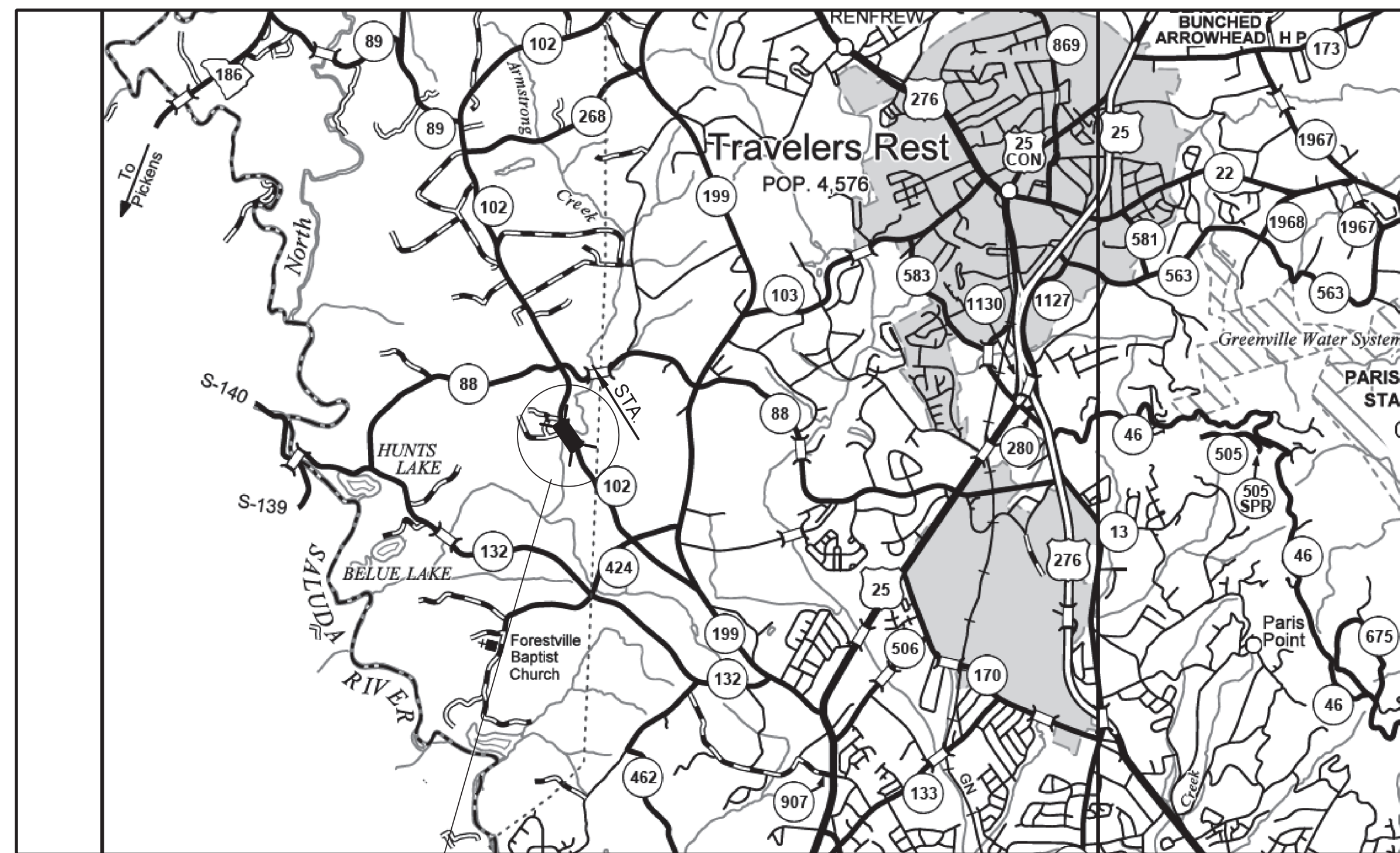
INDEX OF SHEETS

1. TITLE SHEET
2. BRIDGE PLAN AND PROFILE
3. BRIDGE TYPICAL SECTION



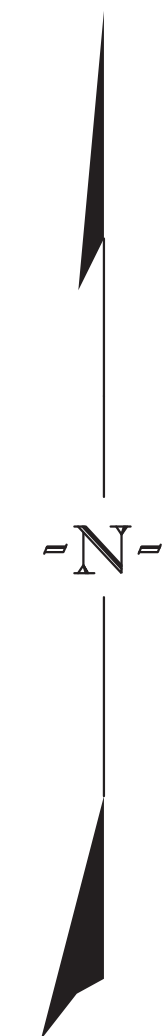
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

# PROPOSED PLANS FOR GREENVILLE COUNTY PROJECT ID P041161 ROUTE S-23-102 (KEELER MILL RD) REPLACE BRIDGE OVER ARMSTRONG CREEK



SITE LOCATION      LAYOUT

Approximate Location of Bridge is	
Latitude	34°-56'-31" N
Longitude	82°-29'-33" W



CADD FILE INFORMATION    10:28:55 AM  
 PLOTTED DATE    9/20/2024  
 FILE NAME    ...S-23-102 over Armstrong Creek.ts\_Microstation  
 USER NAME    dhorton

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA <b>CALL 811</b> SOUTH CAROLINA 811 (SC811) WWW.SC811.COM ALL UTILITIES MAY NOT BE A MEMBER OF SC811
--

ASSET ID <u>NOT ASSIGNED</u>
------------------------------

TRAFFIC DATA		
_____	_____	_____
2025	ADT    1300	V.P.D.
2045*	ADT    2100*	V.P.D.
TRUCKS	5	%
*DESIGN TRAFFIC DATA		

NET LENGTH OF ROADWAY	0.000	MILES
NET LENGTH OF BRIDGES	0.019	MILES
NET LENGTH OF PROJECT	0.019	MILES
LENGTH OF EXCEPTIONS	0.000	MILES
GROSS LENGTH OF PROJECT	0.019	MILES

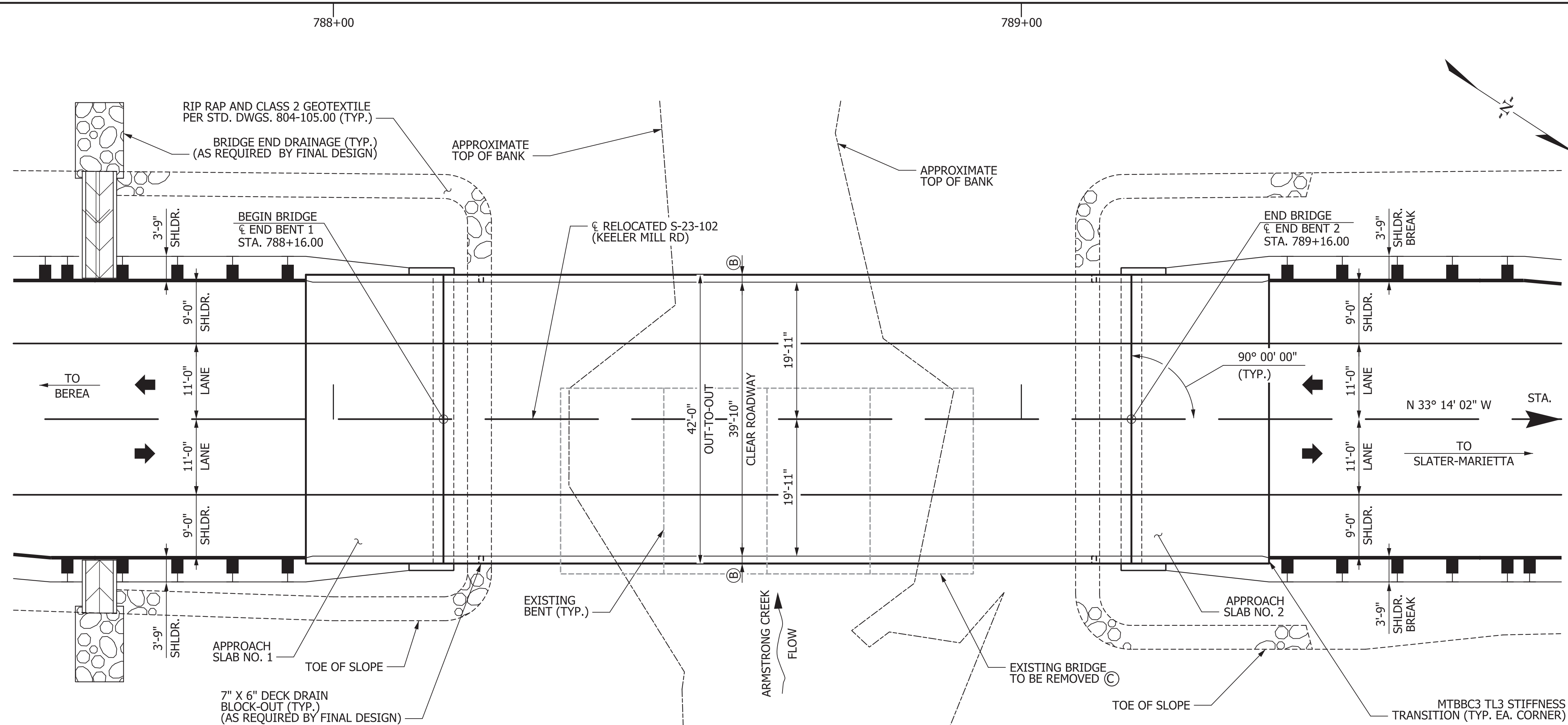
NOTE: EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT SHALL CONFORM TO THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT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

<b>CONSULTING ENGINEERING FIRM</b>  <b>HNTB</b> HNTB CORPORATION <small>SC License No. 265 4000 Center at North Hills Street, Suite 500, Raleigh, N.C. 27609</small>
--

ENGINEER OF RECORD  <b>CONCEPTUAL PLANS NOT FOR CONSTRUCTION</b>
--

REVIEWED	CCC	DATE	09-24
DR.	DLH	CHK.	BY





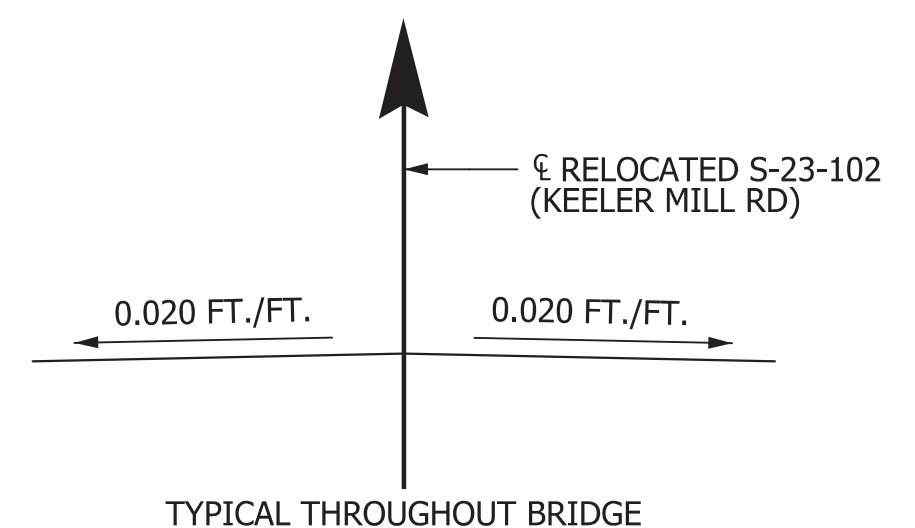
PLAN

- 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 60'-0" 4-SPAN SIMPLE CONCRETE SLAB BRIDGE AND APPURTENANCES IN ACCORDANCE WITH SECTION 202.4.2 OF THE STANDARD SPECIFICATIONS.
- F - DENOTES FIXED BEARING  
 [Hatched Area] = EXCAVATE HATCHED AREA

CONTROL POINTS

CP 6  
 ELEVATION = 920.22  
 N 1134122.78 E 1552781.09  
 W/CAP

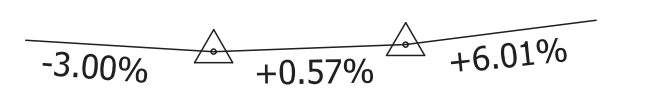
CP 7  
 ELEVATION = 924.19  
 N 1134611.81 E 1552423.50  
 W/CAP



TYPICAL THROUGHOUT BRIDGE  
 SUPERELEVATION SKETCH

VERTICAL CURVE DATA

VPI = 786+30.00 VPI = 792+40.00  
 ELEV. 919.58 ELEV. 923.04  
 V.C. = 350' V.C. = 600'

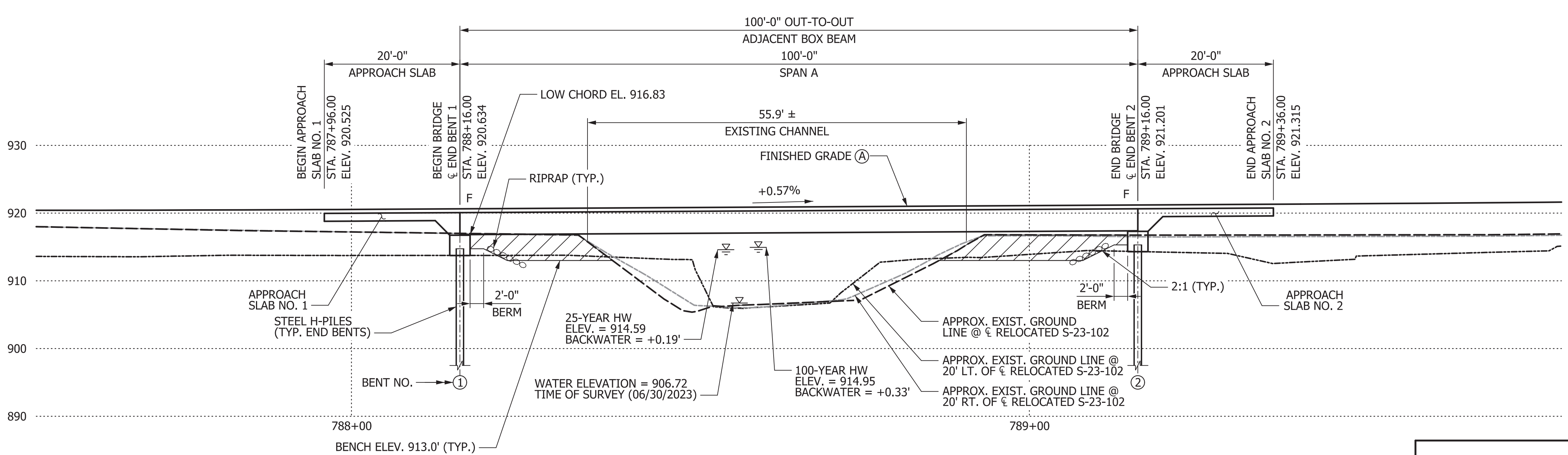


HYDROLOGY DATA

D.A. = 3.85 SQ. MILES  
 Q<sub>25</sub> = 1,120 CFS  
 VELOCITY<sub>25</sub> = 3.0 FPS  
 AREA FURNISHED UNDER<sub>25</sub> = 225 SQ. FT.  
 Q<sub>100</sub> = 1,630 CFS  
 VELOCITY<sub>100</sub> = 3.8 FPS  
 AREA FURNISHED UNDER<sub>100</sub> = 155 SQ. FT.

OVERTOPPING FLOOD

Q = 8,370 CFS  
 PROBABILITY <0.2%



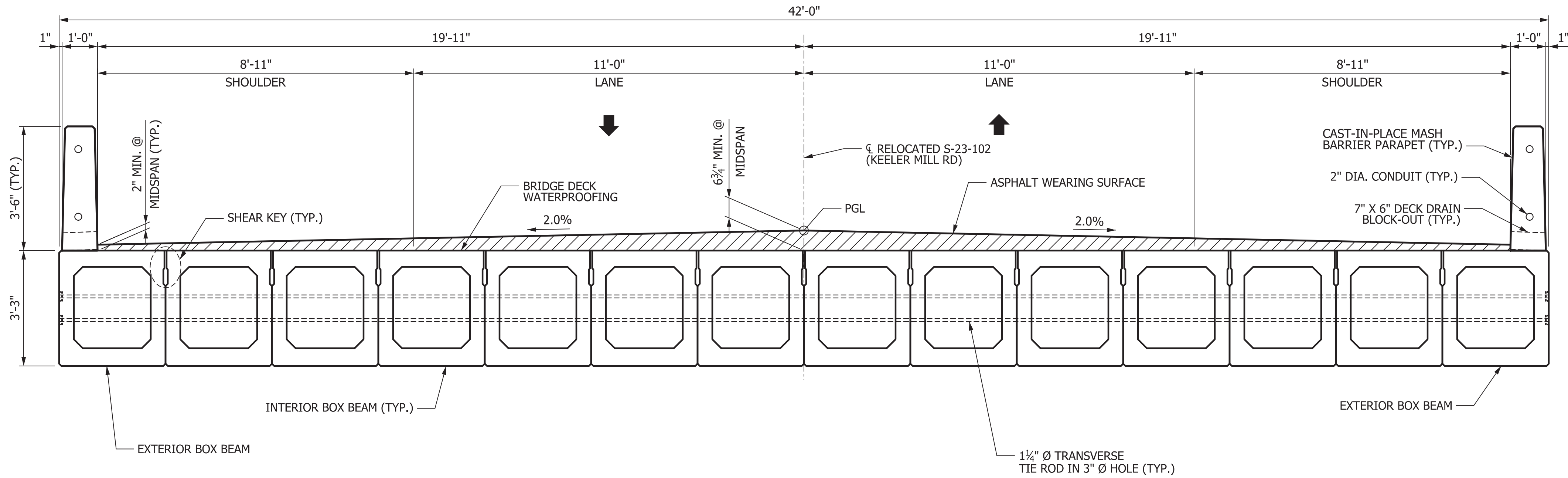
SECTION ALONG CL RELOCATED S-23-102

CADD FILE INFORMATION 12:37:52 PM  
 PLOTTED DATE 10/27/2024  
 FILE NAME ...S-23-102 over Armstrong Creek\_bp\_Microstation  
 USER NAME dhorton

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

QUAN.	DR.	DLH	BJA	DATE

<b>NOT FOR CONSTRUCTION</b>	CONCEPTUAL PLANS	<b>HNTB</b> HNTB CORPORATION SC License No. 265 4000 Center at North Hills Street, Suite 500, Raleigh, N.C. 27609
	SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION	
	<b>BRIDGE PLAN AND PROFILE</b>  S-23-102 (KEELER MILL RD) BRIDGE REPLACEMENT OVER ARMSTRONG CREEK	
		COUNTY: GREENVILLE
		ROUTE: S-23-102



**TYPICAL SECTION**  
(LOOKING IN DIRECTION OF STATIONING)

CADD FILE INFORMATION 10:33:17 AM  
 PLOTTED DATE 9/20/2024  
 FILE NAME ...S-23-102 over Armstrong Creek\_sx\_Microstation  
 USER NAME dhorton

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

QUAN.	DR.	DLH	BJA	DATE

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	SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION	
	<b>BRIDGE TYPICAL SECTION</b> S-23-102 (KEELER MILL RD) BRIDGE REPLACEMENT OVER ARMSTRONG CREEK COUNTY: GREENVILLE ROUTE: S-23-102	



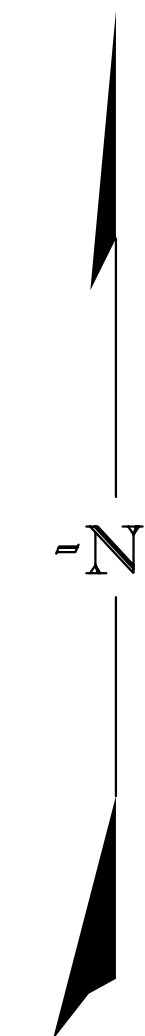
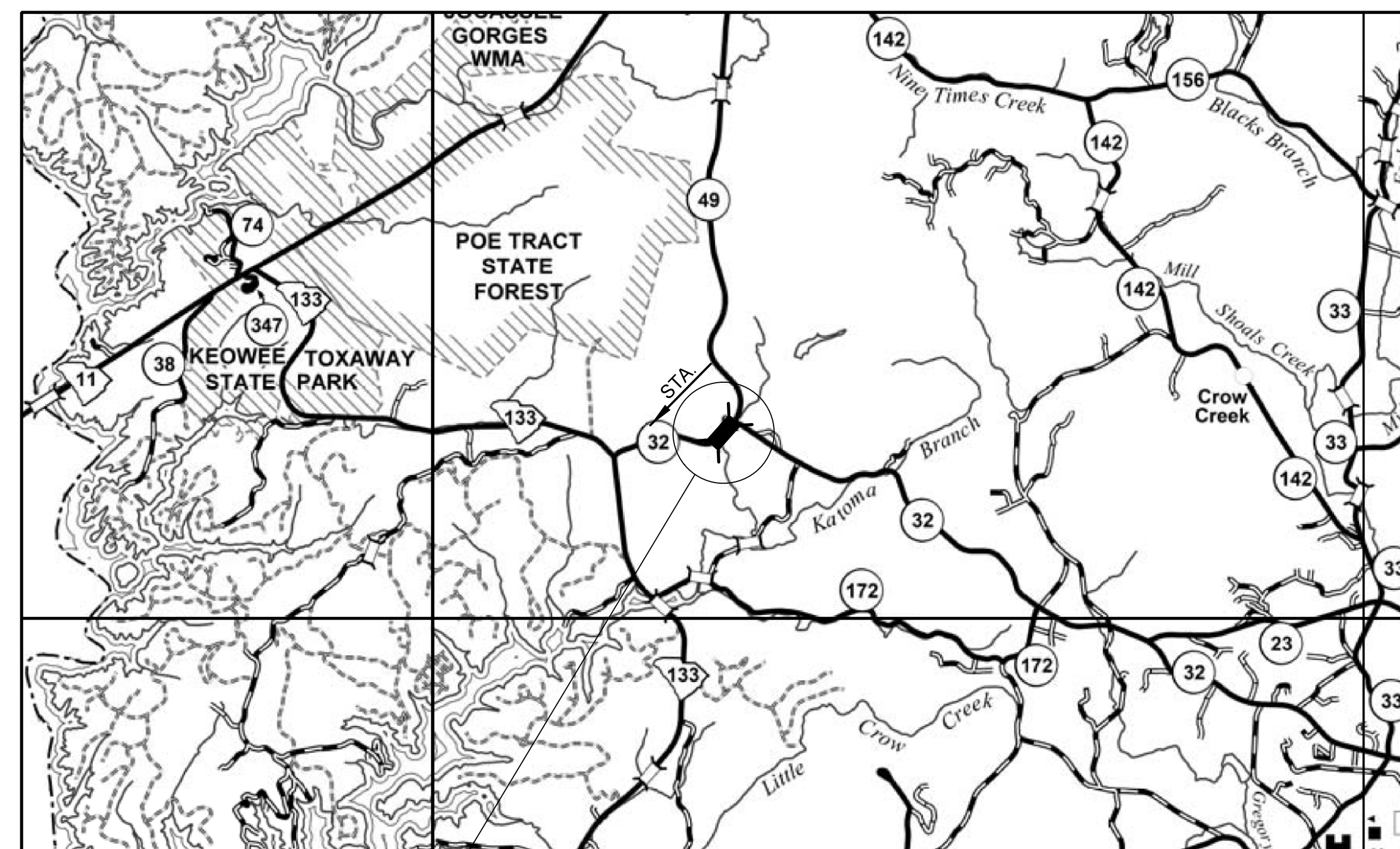
INDEX OF SHEETS

1. TITLE SHEET
2. BRIDGE PLAN AND PROFILE
3. BRIDGE TYPICAL SECTION



SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

# PROPOSED PLANS FOR PICKENS COUNTY PROJECT ID P041168 ROUTE S-39-32 (SHADY GROVE RD) REPLACE BRIDGE OVER CROW CREEK



Approximate Location of Bridge is  
Latitude 34°-55'-02" N  
Longitude 82°-49'-56" 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	TRUCKS	V.P.D.
2025	2500	12	
2045*	3400*		

\* DESIGN TRAFFIC DATA

NET LENGTH OF ROADWAY	0.000	MILES
NET LENGTH OF BRIDGES	0.028	MILES
NET LENGTH OF PROJECT	0.028	MILES
LENGTH OF EXCEPTIONS	0.000	MILES
GROSS LENGTH OF PROJECT	0.028	MILES

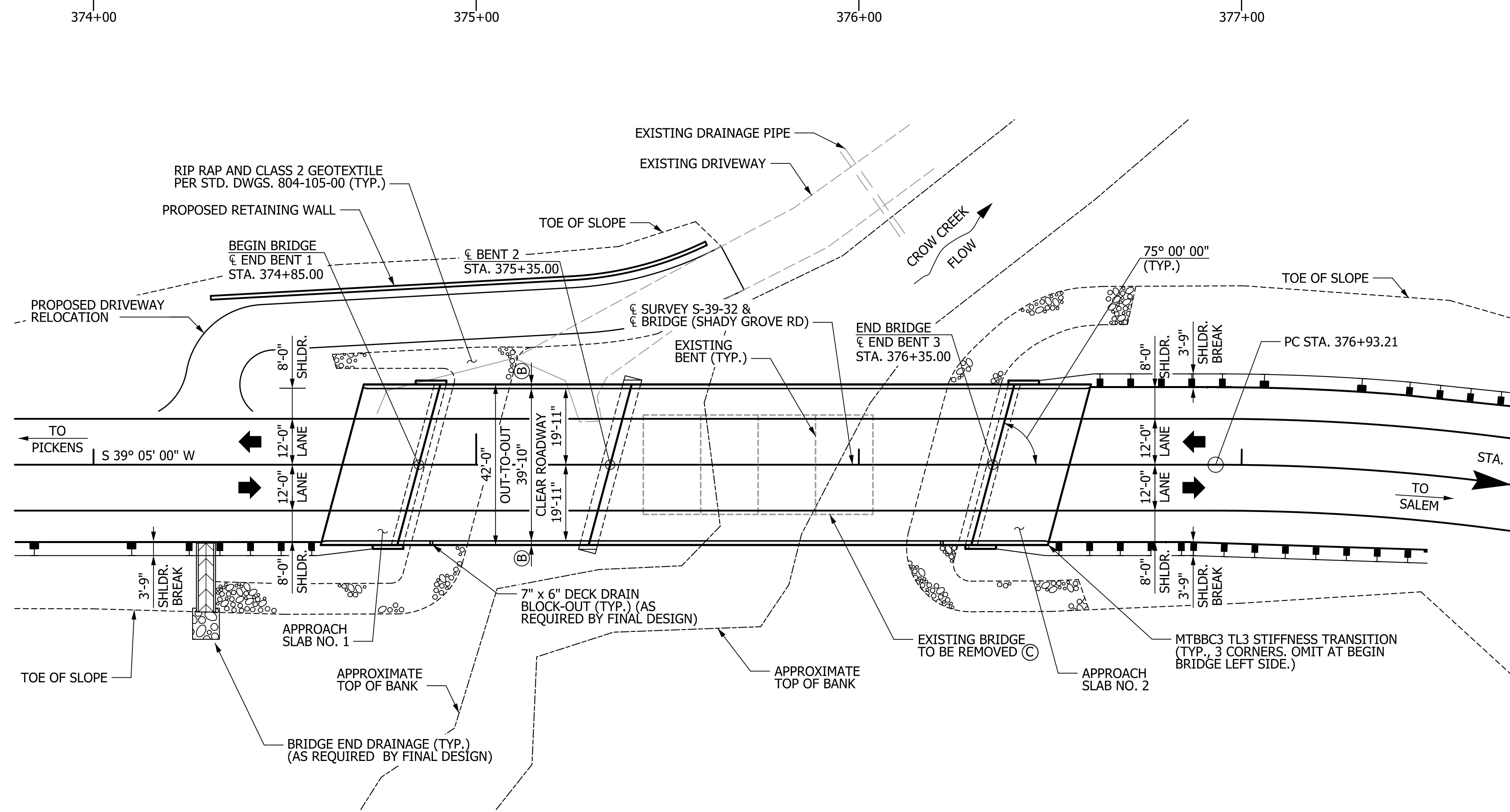
NOTE: EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT SHALL CONFORM TO THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT 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 9:46:02 AM  
PLOTTED DATE 10/4/2024  
FILE NAME ...S-39-32 over Crow Creek\_ts\_Microstation  
USER NAME MWright

REVIEWED	CCC	DLH	BJA	08-24
DR.	BY	CHK.	DATE	



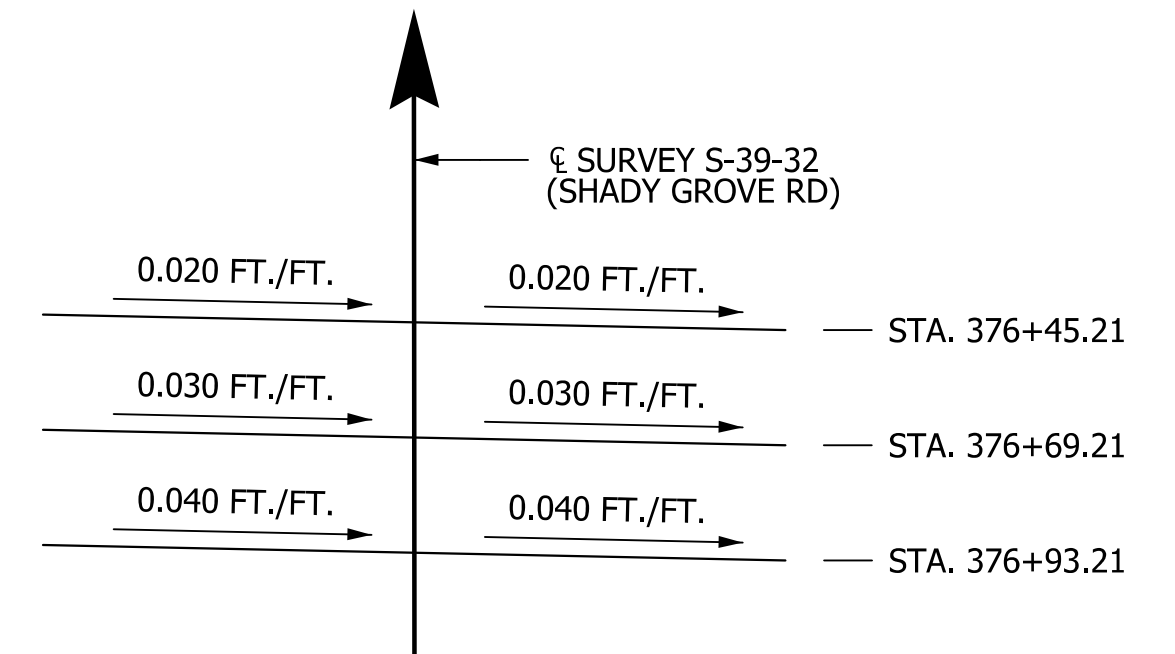
**PLAN**

- 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 60'-0" 4-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**

CP9  
ELEVATION = 857.80  
N 1127025.39 E 1450801.60  
BRDG NL

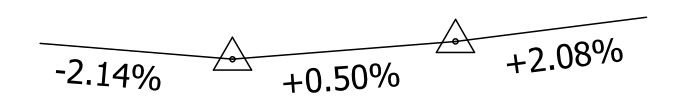
CP10  
ELEVATION = 867.14  
N 1126674.29 E 1450418.41  
BRDG NL



**SUPERELEVATION SKETCH**

**VERTICAL CURVE DATA**

PVI = 373+50.00 PVI = 377+55.00  
ELEV. 860.03 ELEV. 862.05  
V.C. = 260' V.C. = 160'



**HORIZONTAL CURVE DATA**

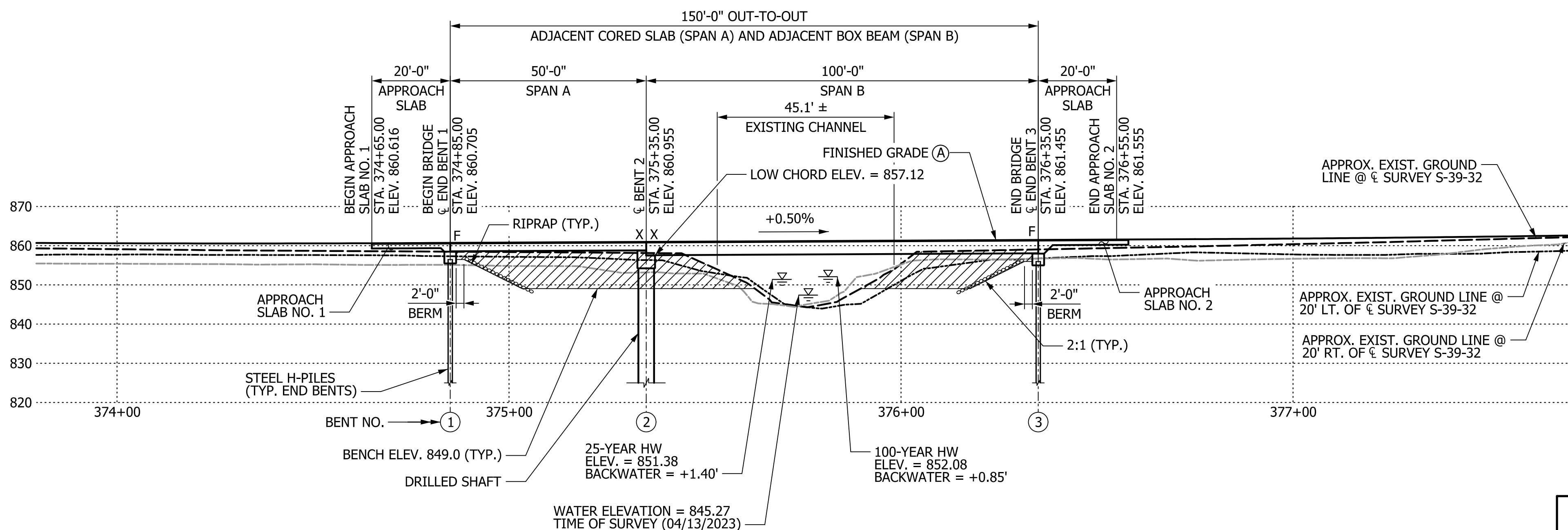
P.I. = 380+81.54  
 $\Delta = 68^\circ 15' 22''$  (RT)  
D = 10° 00' 00"  
T = 388.33'  
L = 682.56'  
E = 119.20'  
R = 572.96'

**HYDROLOGY DATA**

D.A. = 3.23 SQ. MILES  
 $Q_{25} = 778$  CFS  
VELOCITY<sub>25</sub> = 4.0 FPS  
AREA FURNISHED UNDER<sub>25</sub> = 970 SQ. FT.  
 $Q_{100} = 1,180$  CFS  
VELOCITY<sub>100</sub> = 4.7 FPS  
AREA FURNISHED UNDER<sub>100</sub> = 870 SQ. FT.

**OVERTOPPING FLOOD**

$Q = 6,550$  CFS  
PROBABILITY < 0.2%



**SECTION ALONG SURVEY C S-39-32**

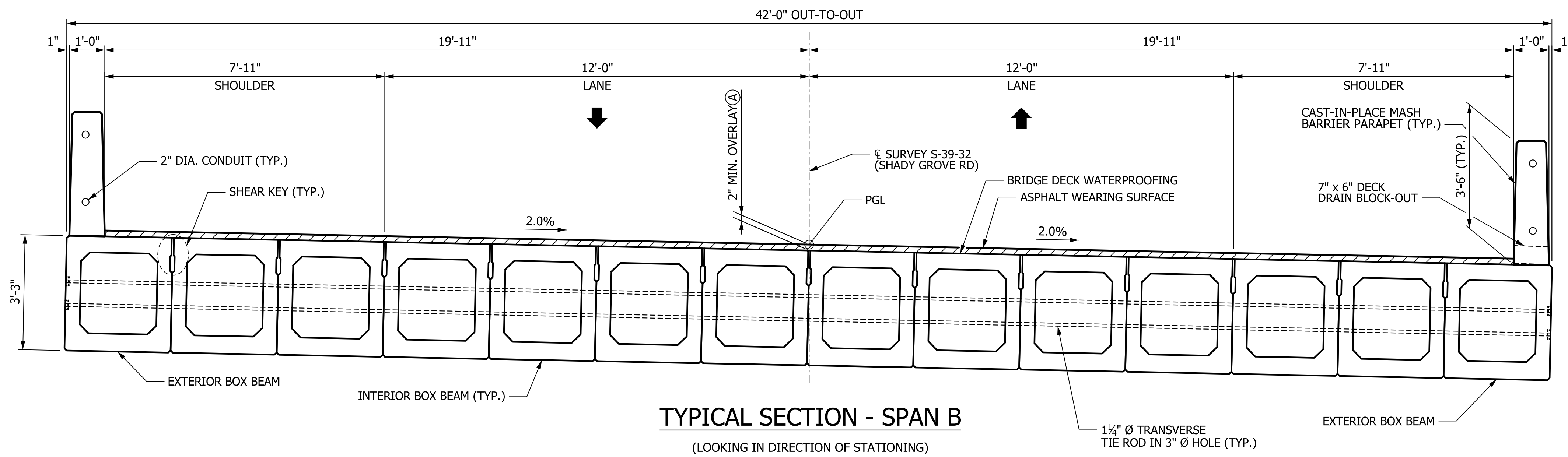
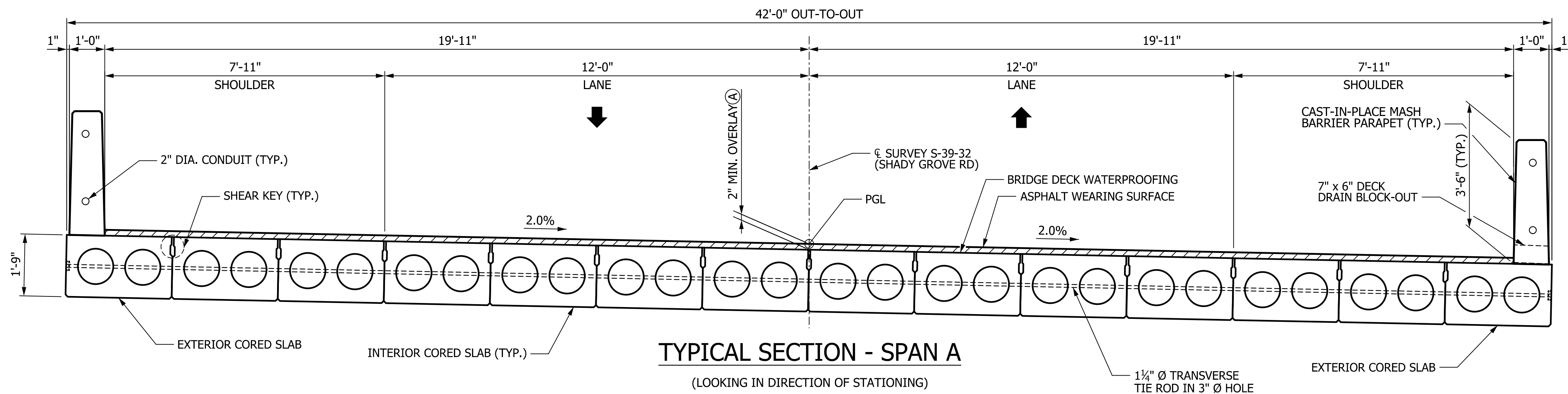
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PLOTTED DATE 10/4/2024  
FILE NAME ...S-39-32 over Crow Creek\_bp\_Microstation  
USER NAME MWright

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

QUAN.	BY	CHK.	DATE

<b>NOT FOR CONSTRUCTION</b>	CONCEPTUAL PLANS	HNTB CORPORATION SC License No. 265 4000 Center at North Hills Street, Suite 500, Raleigh, N.C. 27609	
	SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION		
	BRIDGE PLAN AND PROFILE		
S-39-32 (SHADY GROVE RD) BRIDGE REPLACEMENT OVER CROW CREEK		COUNTY: PICKENS      ROUTE: S-39-32	





CADD FILE INFORMATION 9:47:09 AM  
 PLOTTED DATE 10/4/2024  
 FILE NAME ..S-39-32 over Crow Creek\_sx\_Microstation  
 USER NAME MWright

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

QUAN.	DR.	DES.	DLH	BJA	08-24	BY	CHK.	DATE

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		<b>BRIDGE TYPICAL SECTION</b>  S-39-32 (SHADY GROVE RD) BRIDGE REPLACEMENT OVER CROW CREEK  COUNTY: PICKENS ROUTE: S-39-32