CONSTRUCTION PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	YORK	P037950	US 21/S-50	1	229

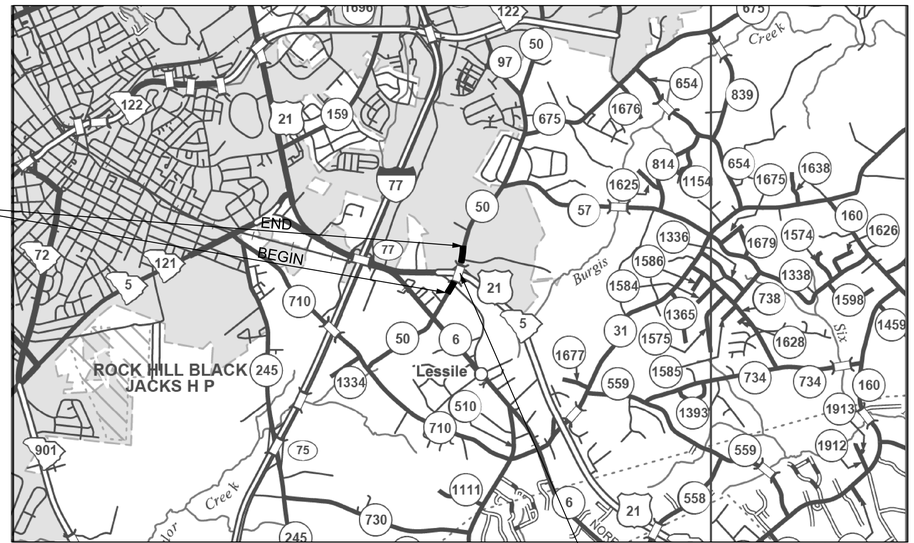
SEE SHEET IL1 FOR INDEX OF SHEETS

YORK COUNTY

PROPOSED PLANS FOR

YORK COUNTY PROJECT NO: 17228-009
SCDOT PROJECT ID: P037950

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21 (ANDERSON RD)



Design Reference for these plans is the:

2021

SCDOT Roadway Design Manual

Hydraulic Design Reference for these plans is the:

2009

Edition of SCDOT's "Requirements for Hydraulic Design Studies"

NPDES PERMIT INFORMATION

Disturbed Area = 6.2 Acre(s)

Project Area = 8.2 Acre(s)

Approximate Location of Roadway is

Begin
Latitude 34°54'34.38" N
Longitude 80°58'10.71" W

End
Latitude 34°54'52.89" N
Longitude 80°58'03.18" W

Hydraulic and NPDES Design provided by:

KCI Technologies, Inc.

Designs may be obtained from the SCDOT Regional Production Group

ENVIRONMENTAL PERMIT INFORMATION

USACE PERMIT	___YES	X NO
NEPA DOCUMENT	___YES	X NO
401 CERTIFICATION	___YES	X NO
OCRM CAP	___YES	X NO
NAVIGABLE WATERS ___SC ___USCG ___USACE		X N/A

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

RAILROAD INVOLVEMENT?
YES / (NO)

TRAFFIC DATA

		S-50	US 21
2024	ADT	10,300	25,600
2044	ADT	16,735	29,627

TRUCKS 5 %

	S-50 REL.	US 21	COUNTY RD	LINES A-E	S-143	TOTAL	
NET LENGTH OF ROADWAY	0.262	0.152	0.075	0.544	0.136	1.169	MILES
NET LENGTH OF BRIDGES	0.000	0.000	0.000	0.000	0.000	0.000	MILES
NET LENGTH OF PROJECT	0.262	0.152	0.075	0.544	0.136	1.169	MILES
LENGTH OF EXCEPTIONS	0.042	0.000	0.000	0.000	0.000	0.042	MILES
GROSS LENGTH OF PROJECT	0.304	0.152	0.075	0.544	0.136	1.211	MILES

EQUALITIES IN STATIONING
BK STA. 132+10.97 = AH STA. 132+10.97
BK STA. 134+94.05 = AH STA. 134+94.25 (-0.20')
BK STA. 137+39.52 = AH STA. 137+39.72 (-0.20')
BK STA. 144+82.61 = AH STA. 144+80.00 (+2.61')

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 (2025 EDITION) AND THE STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT AT THE TIME OF LETTING.

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

CONSULTING ENGINEERING FIRM

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

ENGINEER OF RECORD

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 21580
BRIAN WAYNE KEYS
REGISTERED

FOR CONSTRUCTION : Signed by: C61083214AC4D3... 10/1/2025 DATE

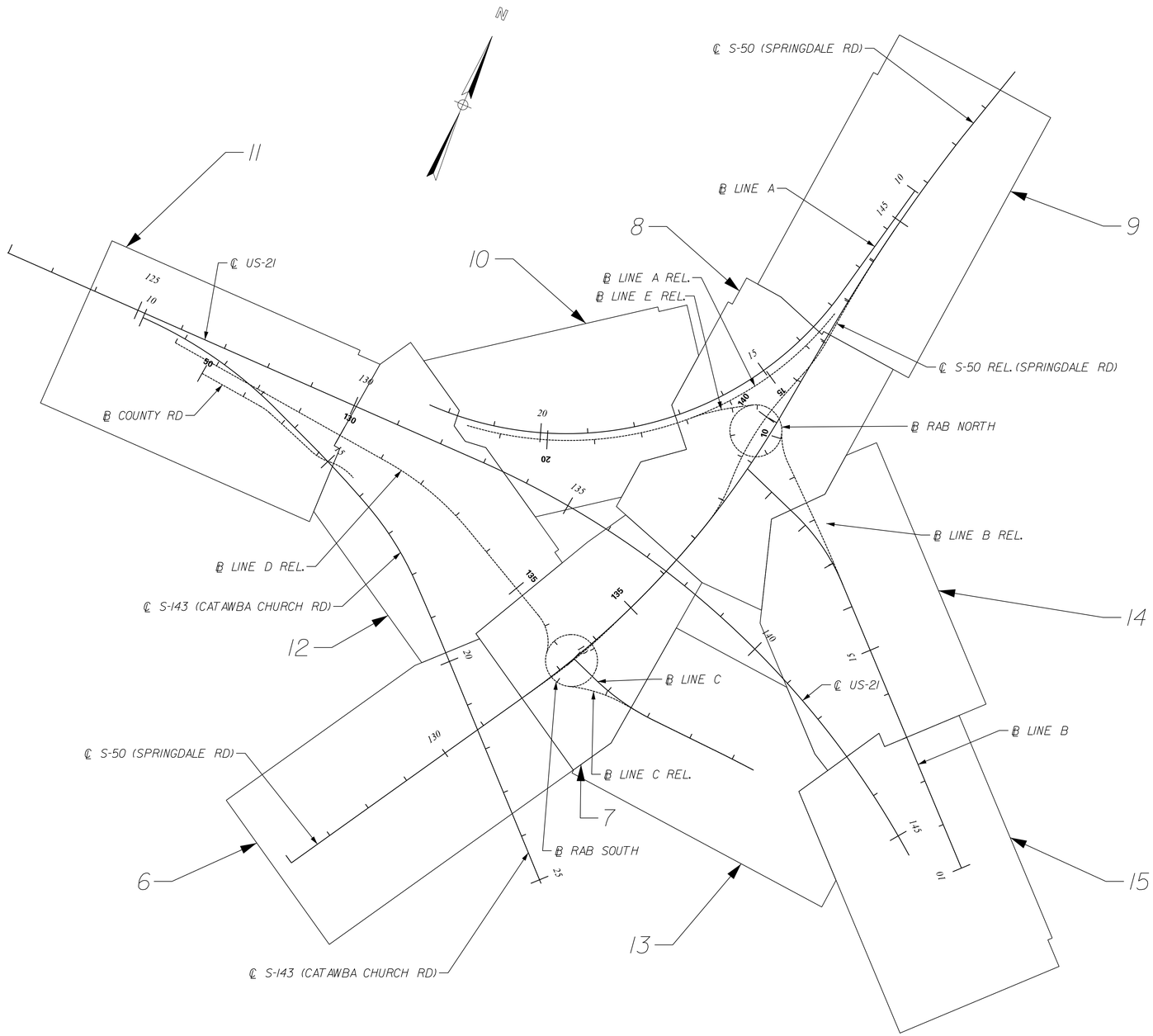
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	IL1

INDEX OF SHEETS

SHEET NO.	DESCRIPTION	SHEET TOTALS
1	Title Sheet	1
IL1	Index / Layout Sheet	1
2	Summary of Estimated Quantities	2
3-3G	Typical Sections	8
4	Right of Way Data Sheet	1
4A	Property Strip Map	1
5	General Construction Notes Sheet	1
5A	Survey Control Data Sheet	1
5B-5E	Reference Data Sheets/Index Sheet	4
5F-5M	Top of Curb Profile Sheets	8
6 - 15	Plan and Profile Sheets	22
D1-D12	Drainage Plan Sheets	12
TC1-TC41	Traffic Control Plans	41
E1-E13	Electrical and Lighting Plans	13
PM1-PM9	Pavement Marking Plans	9
SN1-SN13	Signing Plans	13
EC1-EC22	Erosion Control Data Sheet	24
X1-X58	Cross Sections	58
XP1-XP9	Special Pipe Cross Sections	9
	TOTAL SHEETS	229

CROSS SECTION INDEX

S-50	X1-X11
S-143 (CATAWBA CHURCH ROAD)	X12-X18
RAB SOUTH	X19-X21
RAB NORTH	X22-X24
LINE A REL.	X25-X33
LINE B REL.	X34-X37
LINE C REL.	X38-X40
LINE D REL.	X41-X48
COUNTY ROAD	X49-X52
US 21	X53-X58



KCI TECHNOLOGIES
ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

0 125 250 375 500

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA — PROFESSIONAL ENGINEER — SEAL — No. 21580 — 10/1/2025 — BRIAN WAYNE REES

REV. NO.	BY	DATE	DESCRIPTION OF REVISION	SCALE 1" = 125'
5				YORK COUNTY
4				
3				INDEX / LAYOUT SHEET
2				
1				

SCALE : 125.000 ft. / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\01A Index Layout Sheet

SUMMARY OF ESTIMATED QUANTITIES

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE/ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	US 21/S-50	2

ITEM NO.	PAY ITEM	QUANTITY	PAY UNIT
1031000	MOBILIZATION	1.000	LS
1031100	MOBILIZATION - SUBCONTRACTOR	1.000	LS
1032010	BONDS AND INSURANCE	1.000	LS
1050800	CONSTRUCTION STAKES, LINES & GRADES	1.000	EA
1052001	UTILITY STAKING	1.000	LS
1080300	CPM PROGRESS SCHEDULE	1.000	LS
2011000	CLEARING & GRUBBING WITHIN RIGHT OF WAY	1.000	LS
2021000	REMOVAL OF STRUCTURES & OBSTRUCTIONS	1.000	LS
2023000	REMOVAL & DISPOSAL OF EXISTING PAVEMENT	19.000	SY
2024100	REMOVAL & DISPOSAL OF EXISTING CURB	950.000	LF
2025000	REMOVAL & DISPOSAL OF EXISTING ASPHALT PAVEMENT	4776.000	SY
2027801	REMOVAL OF EXIST. GUARDRAIL	423.000	LF
2031000	UNCLASSIFIED EXCAVATION	22892.000	CY
2033000	BORROW EXCAVATION	1750.000	CY
2081001	FINE GRADING	16633.000	SY
2103000	FLOWABLE FILL	24.000	CY
3059900	MAINTENANCE STONE	2000.000	TON
4011004	LIQUID ASPHALT BINDER PG64-22	431.000	TON
4013117	MILLING EXISTING ASPHALT PAVEMENT 1.75"	3422.000	SY
4013990	MILLING EXISTING ASPHALT PAVEMENT (VARIABLE)	1711.000	SY
4020310	ASPHALT BASE COURSE - TYPE A	4986.000	TON
4030320	ASPHALT INTERMEDIATE COURSE TYPE B	2123.000	TON
4040320	ASPHALT SURFACE COURSE TYPE B	1717.000	TON
4040360	ASPHALT SURFACE COURSE TYPE E	5.000	TON
5019010	STAINED CONCRETE PAVEMENT (8" UNIFORM)	568.000	SY
6011000	TRAFFIC CONTROL	1.000	LS
6021130	DETOUR SIGNS	1045.000	SF
6041200	BARRICADE - TYPE III	186.000	LF
6051120	PERMANENT CONSTRUCTION SIGNS (GROUND MOUNTED)	800.000	SF
6051125	PERMANENT CONSTRUCTION SIGNS (BARRICADE MOUNTED)	433.000	SF
6052122	PORTABLE TERMINAL IMPACT ATTENUATOR-TEST LEVEL 3	7.000	EA
6053110	TEMPORARY CONCRETE BARRIER	1450.000	LF
6062000	CONSTRUCTION ZONE ELECTRIC CHANGEABLE MESSAGE SIGN (TRAILER	5.000	EA
608100B	TYPE B - FLASHING LIGHT	8.000	EA
609138A	PAVEMENT MARKINGS (TEMPORARY PAINT) 24"X36" WHITE TRIANGLE YIELD BAR	288.000	LF
6092100	TEMPORARY CLEAR PAVEMENT MARKERS MONO-DIR.- 4"X4"	50.000	EA
6092155	TEMPORARY YELLOW PAVEMENT MARKERS BI-DIR.- 4"X4"	200.000	EA
6240005	4" WHITE BROKEN LINES -(GAPS EXCLUDED)-FAST DRY PAINT	1060.000	LF

ITEM NO.	PAY ITEM	QUANTITY	PAY UNIT
6240010	4" WHITE SOLID LINES (PVT. EDGE LINES)-FAST DRY PAINT	45700.000	LF
6240015	8"WHITE SOLID LINES(CROSSWALK&CHANNELIZATION)FAST DRY PAINT	1100.000	LF
6240020	12" WHITE SOLID LINES - FAST DRY PAINT	4220.000	LF
6240025	24" WHITE SOLID LINES (STOP/DIAGONAL LINES)-FAST DRY PAINT	3370.000	LF
6240110	4"YELLOW SOLID LINE(PVT.EDGE&NO PASSING ZONE)-FAST DRY PAINT	53450.000	LF
6240113	6"YEL SOLID LINES ON 6"CONC.CURB(TOP&SIDE)-FAST DRY PNT	170.000	LF
6271005	4" WHITE BROKEN LINES(GAPS EXCL.)THERMOPLASTIC- 90 MIL.	150.000	LF
6271008	8" WHITE BROKEN LINES(GAPS EXCL.)THERMOPLASTIC- 90 MIL.	340.000	LF
6271010	4" WHITE SOLID LINES (PVT. EDGE LINES) THERMO.- 90 MIL.	5600.000	LF
6271015	8" WHITE SOLID LINES THERMOPLASTIC - 125 MIL.	550.000	LF
6271020	12" WHITE SOLID LINES - THERMO. - 125 MIL.	860.000	LF
6271024	24IN X 36IN WHITE TRIANG. YIELD BAR (GAPS EXC)THERMO-125MIL	64.000	LF
6271025	24" WHITE SOLID LINES (STOP/DIAG LINES)-THERMO.-125 MIL	760.000	LF
6271074	4" YELLOW SOLID LINES(PVT.EDGE LINES) THERMO-90 MIL.	6500.000	LF
6300005	PERMANENT CLEAR PAVEMENT MARKERS- MONO-DIR.- 4"X4"	25.000	EA
6301100	PERMANENT YELLOW PAVEMENT MARKERS BI-DIR.- 4"X4"	100.000	EA
6319505	REMOVAL OF PAVEMENT MARKINGS	20000.000	LF
6510105	FLAT SHEET, TYPE III, FIXED SZ. & MSG. SIGN	438.970	SF
6510106	FLAT SHEET, TYPE III, SIZE DETERMINED BY MSG	178.750	SF
6531205	U-SECTION POST FOR SIGN SUPPORTS - 2P	40.000	LF
6531210	U-SECTION POST FOR SIGN SUPPORTS - 3P	1124.000	LF
6531215	U-SECTION POST FOR SIGN BRACING - 2P	114.000	LF
6650900	FURNISH & INSTALL ELECTRICAL SERVICE CONNECTIONS	1.000	LS
6653050	SGL.LT.STD.30'HT.AL.POLE 4'SGL.ARM-GROUND MNT.W/FOUNDATION	16.000	EA
6654030	DBL.LT.STD.30'HT.AL.POLE 4'SGL.ARM.GROUND MNT.W/FOUND.	1.000	EA
6750275	FURNISH & INSTALL 1.0" SCHEDULE 80 PVC CONDUIT	170.000	LF
675027G	FURNISH & INSTALL 4.0" SCHEDULE 80 PVC CONDUIT	40.000	LF
675027S	FURNISH & INSTALL 2.0" SCHD 80 PVC CONDUIT (DIRECTION.BORED)	815.000	LF
6750278	FURNISH & INSTALL 2.0" SCHEDULE 80 PVC CONDUIT	1781.000	LF
6770310	NO. 2 COPPER WIRE, 1 CONDUCTOR, 600V,TYPE RHH,RHW,USE	80.000	LF
6770316	NO. 6 BARE COPPER WIRE GROUND	2390.000	LF
6770317	NO. 6 COPPER WIRE, 1 CONDUCTOR, 600V,TYPE RHH,RHW,USE	5312.000	LF
6800530	17"X30"X28"D.ELEC.FLUSH UNDGRD.ENCLOSURE-(STR.POLY.CONC.)HD	25.000	EA
7141886	18" REINFORCED CONCRETE PIPE (CLASS V SPECIAL)TRENCHLESS	88.000	LF
7141891	48" REINFORCED CONCRETE PIPE (CLASS V SPECIAL)TRENCHLESS	203.000	LF
7143615	15" SMOOTH WALL PIPE	24.000	LF
7143618	18" SMOOTH WALL PIPE	2246.000	LF
7143624	24" SMOOTH WALL PIPE	290.000	LF

2/4/2026
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SUMMARY OF ESTIMATED QUANTITIES

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE/ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	US 21/S-50	2A

ITEM NO.	PAY ITEM	QUANTITY	PAY UNIT
7143630	30" SMOOTH WALL PIPE	336.000	LF
7144518	18" CORRUGATED WALL PIPE	88.000	LF
7144530	30" CORRUGATED WALL PIPE	37.000	LF
7149974	LINE EXISTING 24" PIPE	128.000	LF
7149999	CLEANING EXISTING PIPE	147.000	LF
7191205	CATCH BASIN -TYPE 9	6.000	EA
7191605	CATCH BASIN -TYPE 16	26.000	EA
7191650	CATCH BASIN -TYPE 18	2.000	EA
7192105	MANHOLE	8.000	EA
7196000	EXTRA DEPTH OF BOX	26.000	LF
7199100	BEVELING OF PIPE END	1.000	EA
7199200	4' SLOPE FLUME (6" CURB STYLE WITH CUTOFFS)	80.000	LF
7203210	CONCRETE CURB AND GUTTER(2'-0") VERTICAL FACE	3502.000	LF
7204100	CONCRETE SIDEWALK(4" UNIFORM)	60.000	SY
7206000	CONCRETE MEDIAN	1209.000	SY
8041010	RIP-RAP (CLASS A)	760.000	TON
8041020	RIP-RAP (CLASS B)	970.000	TON
8048210	GEOTEXTILE FOR EROSION CONTROL UNDER RIPRAP(CLASS 2)TYPE C	1417.000	SY
8051050	PREMASH W-BEAM STRONG POST SYSTEM WSP3	62.500	LF
8051155	MT2 LEADING END TREATMENT TL2	2.000	EA
8051208	PREMASH THRIE WITH BASE PL 3.125 SPACING	450.000	LF
8052100	MGS3 GR STANDARD SHOULDER	537.500	LF
8052210	PREMASH TRAILING W-BEAM TYPE B 12.5'	1.000	EA
8053250	PREMASH THRIEBEAM BRIDGE CONN TBBC3	4.000	EA
8053257	FLUME INLET AT GUARDRAIL (HANDWORK)	2.000	EA
8055250	NON-MOW STRIP UNDER GUARDRAIL	139.000	SY
8057100	PREMASH TYPE T TL3 LEADING 50'	3.000	EA
8063300	72" CHAIN LINK FENCE 72" CHAIN-LINK FENCE	2600.000	LF
8091010	RIGHT OF WAY MARKER(REBAR AND CAP)	29.000	EA
8091050	RIGHT OF WAY PLAT	1.000	LS
8100100	PERMANENT COVER	5.989	ACRE
8100200	TEMPORARY COVER	2.995	ACRE
8104005	FERTILIZER (NITROGEN)	599.000	LB
8104010	FERTILIZER (PHOSPHORIC ACID)	599.000	LB
8104015	FERTILIZER (POTASH)	599.000	LB
8105005	AGRICULTURAL GRANULAR LIME	11978.000	LB
8109050	SELECTIVE WATERING	135750.000	GAL
8109901	MOWING	17.980	ACRE

ITEM NO.	PAY ITEM	QUANTITY	PAY UNIT
8151101	TURF REINFORCEMENT MATTING (TRM) TYPE 1	0.082	MSY
8151110	TEMPORARY EROSION CONTROL BLANKET (ECB)	4.200	MSY
8151203	HYDRAULIC EROSION CONTROL PRODUCT (HECP) - TYPE 3	5.360	ACRE
8152004	INLET STRUCTURE FILTER - TYPE F (WEIGHTED)	471.000	LF
8152007	SEDIMENT TUBES FOR DITCH CHECKS	500.000	LF
8153000	SILT FENCE	3750.000	LF
8153090	REPLACE/REPAIR SILT FENCE	1000.000	LF
8154010	CLEANING SILT BASINS	26.000	CY
8154050	REMOVAL OF SILT RETAINED BY SILT FENCE	1800.000	LF
8154155	INLET FILTER CLEANING	24.000	EA
8156205	INLET STRUCTURE FILTER - TYPE D1	6.000	EA
8156210	INLET STRUCTURE FILTER - TYPE B	4.000	EA
8156215	INLET STRUCTURE FILTER - TYPE D2	2.000	EA
8156217	FILTER MATERIAL FOR INLET STRUCTURE FILTER - TYPE D2	2.000	EA
8156410	AGGREGATE NO.5 OR 57 FOR EROSION CONTROL	200.000	TON
8156490	SUBSURFACE EXPLORATION	550.000	LS
8990319	SUBSURFACE EXPLORATION	1.000	LS
	#2 BARE CU. WIRE GROUND	40.000	LF
	LIGHTING CONTROL CABINET & FOUND.	1.000	EA
	3/4" SCHEDULE 80 PVC CONDUIT	180.000	LS
	AS-BUILT PLANS	1.000	EA

2/4/2026
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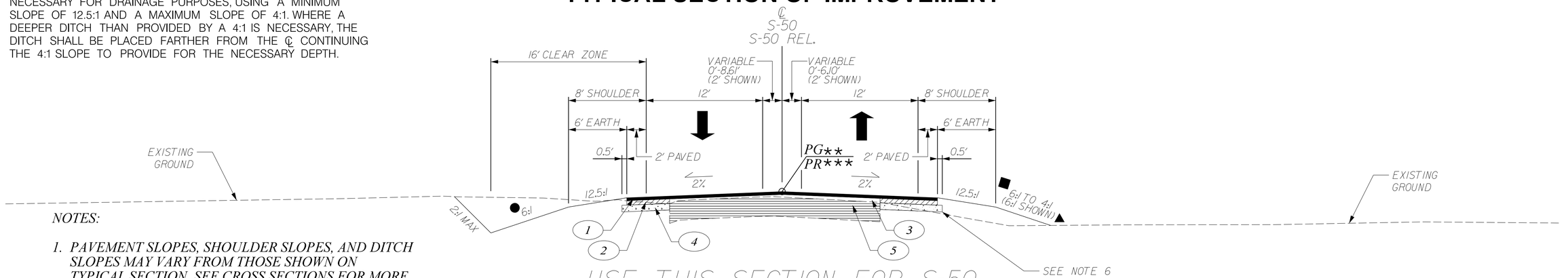
SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C0065I
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER
Signed by:
No. 24580
BRIAN WAYNE BUSH
2/5/2026

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	3

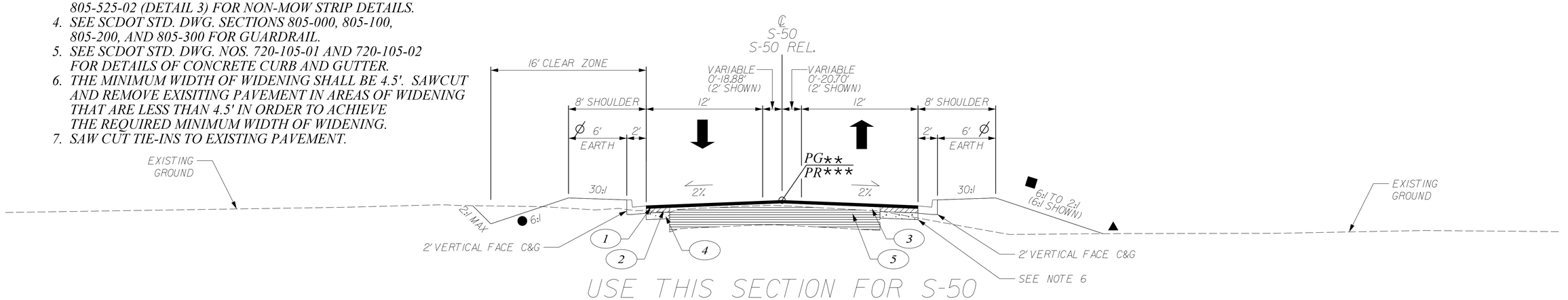
TYPICAL SECTION OF IMPROVEMENT

● THIS SLOPE MAY BE VARIED WHEN A DEEPER DITCH IS NECESSARY FOR DRAINAGE PURPOSES, USING A MINIMUM SLOPE OF 12.5:1 AND A MAXIMUM SLOPE OF 4:1. WHERE A DEEPER DITCH THAN PROVIDED BY A 4:1 IS NECESSARY, THE DITCH SHALL BE PLACED FARTHER FROM THE ℄ CONTINUING THE 4:1 SLOPE TO PROVIDE FOR THE NECESSARY DEPTH.



USE THIS SECTION FOR S-50
STA.128+82.74 TO STA.130+88.81

USE THIS SECTION FOR S-50 REL.
STA.141+44.97 TO STA.144+82.61



USE THIS SECTION FOR S-50
STA.130+88.81 TO STA.132+10.97

USE THIS SECTION FOR S-50 REL.
STA.132+10.97 TO STA.132+76.71
STA.133+86.74 TO STA.134+99.38
STA.137+18.86 TO STA.139+08.09
STA.140+17.91 TO STA.141+44.97

ROUNDABOUT SOUTH - STA.132+76.71 TO STA.133+86.74
EXISTING BRIDGE (EXCEPTION IN PROJECT) - STA.134+99.38 TO STA.137+18.86
ROUNDABOUT NORTH - STA.139+08.09 TO STA.140+17.91

NOTES:

1. *PAVEMENT SLOPES, SHOULDER SLOPES, AND DITCH SLOPES MAY VARY FROM THOSE SHOWN ON TYPICAL SECTION. SEE CROSS SECTIONS FOR MORE DETAIL.*
2. *THE EXISTING PAVEMENT AND OVERLAY IS TYPICAL. SEE CROSSS SECTIONS FOR AREAS OF BUILDUP AND VARIATIONS IN EXISTING PAVEMENT WIDTHS.*
3. *SEE SCDOT STD. DWG. NOS. 805-525-01 AND 805-525-02 (DETAIL 3) FOR NON-MOW STRIP DETAILS.*
4. *SEE SCDOT STD. DWG. SECTIONS 805-000, 805-100, 805-200, AND 805-300 FOR GUARDRAIL.*
5. *SEE SCDOT STD. DWG. NOS. 720-105-01 AND 720-105-02 FOR DETAILS OF CONCRETE CURB AND GUTTER.*
6. *THE MINIMUM WIDTH OF WIDENING SHALL BE 4.5'. SAWCUT AND REMOVE EXISITING PAVEMENT IN AREAS OF WIDENING THAT ARE LESS THAN 4.5' IN ORDER TO ACHIEVE THE REQUIRED MINIMUM WIDTH OF WIDENING.*
7. *SAW CUT TIE-INS TO EXISTING PAVEMENT.*

★★ PG=POINT OF FINISHED GRADE
★★★ PR=POINT OF ROTATION

Ø ADD 3.75' WHERE GUARDRAIL IS USED (SEE NOTE 4)

■ *USE 6:1 SLOPE (< 5')*
4:1 SLOPE (5' - 10')
2:1 MAX SLOPE (> 10')

▲ *USE SILT FENCE AT THE TOE OF ALL SLOPES PER SCDOT STD. DWG. NO. 815-605-00*

1	*HMA SURFACE TYPE B (200 LBS/SY)*
2	*HMA INTERMEDIATE TYPE B (400 LBS/SY)*
3	*BUILDUP AND LEVELING: USE HMA SURFACE TYPE E FOR < 1.5" USE HMA INTERMEDIATE TYPE B FOR > 1.5"*
4	*HMA BASE TYPE A (1000 LBS/SY)*
5	*EXISTING PAVEMENT IN PLACE (RETAIN WHERE APPLICABLE)*

ROUTE NO.	FUNCTIONAL CLASSIFICATION	DESIGN SPEED		
		MPH	FROM STA.	TO STA.
S-50	URBAN MAJOR COLLECTOR	40	128+82.74	144+82.61

PAVEMENT DESIGN

APPROVED BY

DATE

KCI TECHNOLOGIES
ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

Approved by — PROFESSIONAL ENGINEER — No. 21580 — 10/1/2025 — SOUTH CAROLINA — BRIAN WAYNE MEES

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

TYPICAL SECTION
S-50 (SPRINGDALE ROAD)

SCALE = NTS

SCALE : 5.000000 ' / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\03 Typical_Section1_RAB.dgn

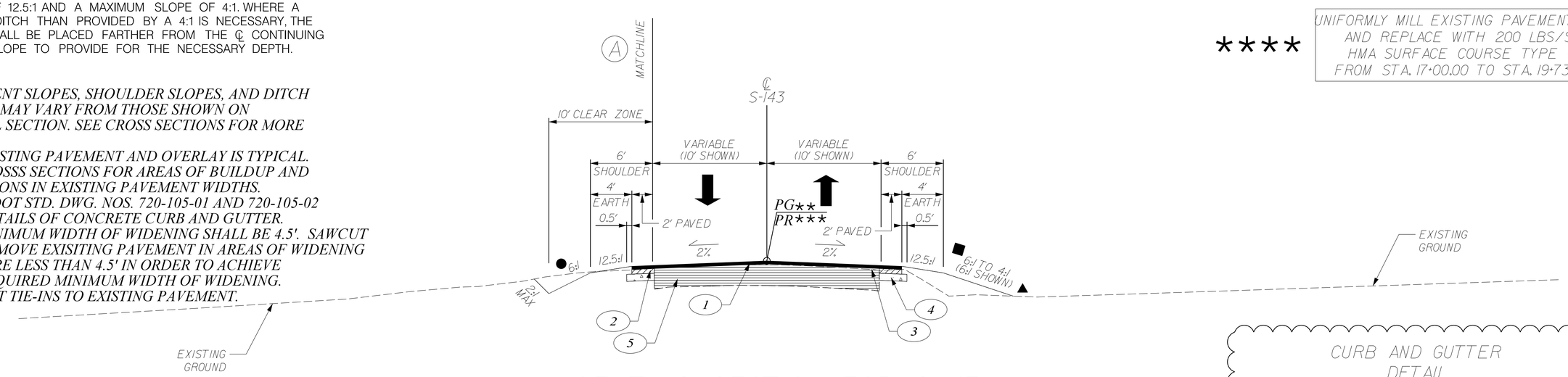
TYPICAL SECTION OF IMPROVEMENT

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	3A

● THIS SLOPE MAY BE VARIED WHEN A DEEPER DITCH IS NECESSARY FOR DRAINAGE PURPOSES, USING A MINIMUM SLOPE OF 12.5:1 AND A MAXIMUM SLOPE OF 4:1. WHERE A DEEPER DITCH THAN PROVIDED BY A 4:1 IS NECESSARY, THE DITCH SHALL BE PLACED FARTHER FROM THE ℄ CONTINUING THE 4:1 SLOPE TO PROVIDE FOR THE NECESSARY DEPTH.

NOTES:

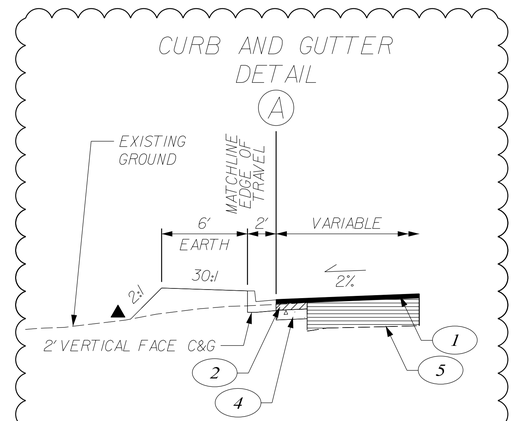
1. *PAVEMENT SLOPES, SHOULDER SLOPES, AND DITCH SLOPES MAY VARY FROM THOSE SHOWN ON TYPICAL SECTION. SEE CROSS SECTIONS FOR MORE DETAIL.*
2. *THE EXISTING PAVEMENT AND OVERLAY IS TYPICAL. SEE CROSSS SECTIONS FOR AREAS OF BUILDUP AND VARIATIONS IN EXISTING PAVEMENT WIDTHS.*
3. *SEE SCDOT STD. DWG. NOS. 720-105-01 AND 720-105-02 FOR DETAILS OF CONCRETE CURB AND GUTTER.*
4. *THE MINIMUM WIDTH OF WIDENING SHALL BE 4.5'. SAWCUT AND REMOVE EXISITING PAVEMENT IN AREAS OF WIDENING THAT ARE LESS THAN 4.5' IN ORDER TO ACHIEVE THE REQUIRED MINIMUM WIDTH OF WIDENING.*
5. *SAW CUT TIE-INS TO EXISTING PAVEMENT.*



**** UNIFORMLY MILL EXISTING PAVEMENT 1.75" AND REPLACE WITH 200 LBS/SY HMA SURFACE COURSE TYPE B FROM STA. 17+00.00 TO STA. 19+73.38

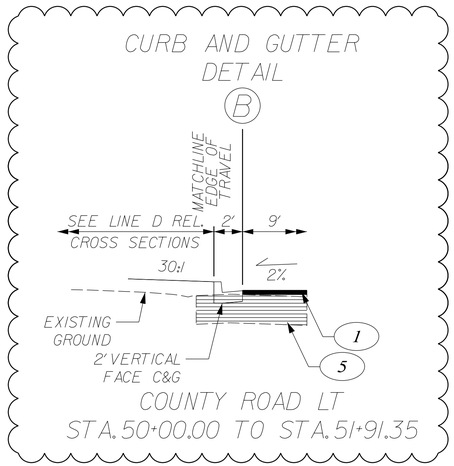
USE THIS SECTION FOR S-143
**** STA. 15+61.87 TO STA. 17+00.00
STA. 19+73.38 TO STA. 21+44.21
STA. 21+68.85 TO STA. 23+01.87

CURB AND GUTTER DETAIL (A)

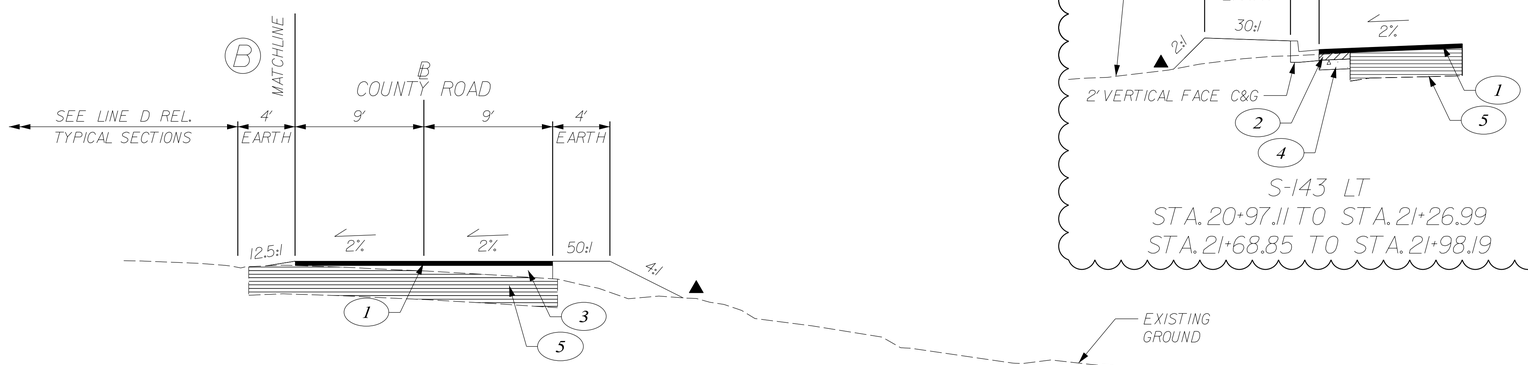


S-143 LT
STA. 20+97.11 TO STA. 21+26.99
STA. 21+68.85 TO STA. 21+98.19

CURB AND GUTTER DETAIL (B)



COUNTY ROAD LT
STA. 50+00.00 TO STA. 51+91.35



USE THIS SECTION FOR COUNTY ROAD
STA. 50+00.00 TO STA. 53+92.33

** PG=POINT OF FINISHED GRADE
*** PR=POINT OF ROTATION

■ USE 6:1 SLOPE (<5')
4:1 SLOPE (5' - 10')
2:1 MAX SLOPE (>10')

▲ USE SILT FENCE AT THE TOE OF ALL SLOPES PER SCDOT STD. DWG. NO. 815-605-00

1	HMA SURFACE TYPE B (200 LBS/SY)
2	HMA INTERMEDIATE TYPE B (400 LBS/SY)
3	BUILDUP AND LEVELING: USE HMA SURFACE TYPE E FOR < 1.5" USE HMA INTERMEDIATE TYPE B FOR > 1.5"
4	HMA BASE TYPE A (1000 LBS/SY)
5	EXISTING PAVEMENT IN PLACE (RETAIN WHERE APPLICABLE)

ROUTE NO.	FUNCTIONAL CLASSIFICATION	DESIGN SPEED		
		MPH	FROM STA.	TO STA.
S-143	URBAN LOCAL RD GROUP 4	40	15+61.87	23+01.87
COUNTY ROAD	URBAN LOCAL RD	20	50+00.00	53+92.33

PAVEMENT DESIGN

APPROVED BY

DATE

KCI TECHNOLOGIES
ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA KCI TECHNOLOGIES, INC. No. C00651 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER BRIAN WAYNE KEYS No. 21580 10/1/2025

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

TYPICAL SECTION
S-143 (CATAWBA CHURCH ROAD)
COUNTY ROAD

SCALE = NTS

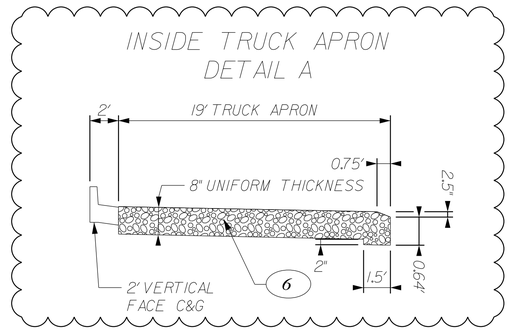
SCALE : 5.000000 ' / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\03 Typical_Section1_RAB.dgn

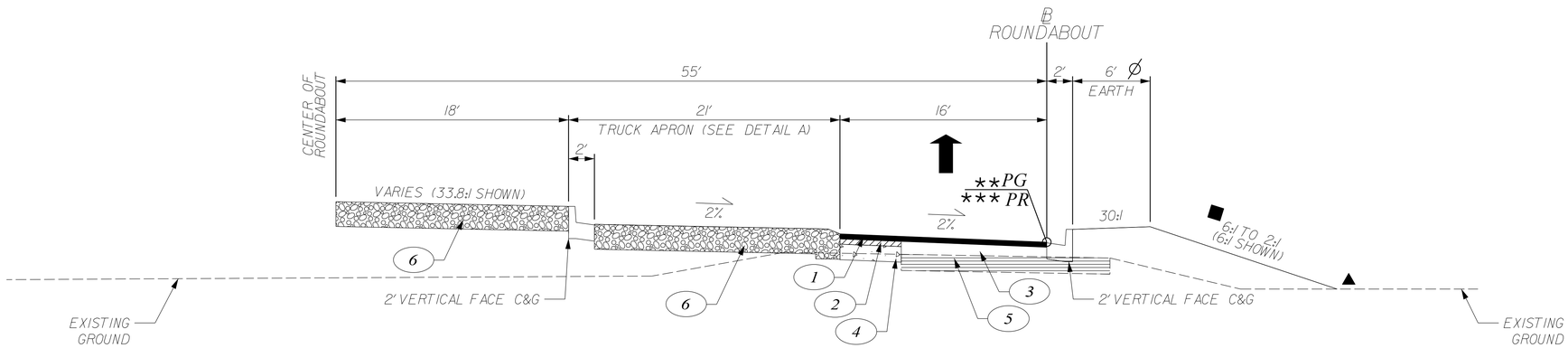
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	3B

TYPICAL SECTION OF IMPROVEMENT

NOTES:

1. *PAVEMENT SLOPES, SHOULDER SLOPES, AND DITCH SLOPES MAY VARY FROM THOSE SHOWN ON TYPICAL SECTION. SEE CROSS SECTIONS FOR MORE DETAIL.*
2. *THE EXISTING PAVEMENT AND OVERLAY IS TYPICAL. SEE CROSSS SECTIONS FOR AREAS OF BUILDUP AND VARIATIONS IN EXISTING PAVEMENT WIDTHS.*
3. *SEE SCDOT STD. DWG. NOS. 805-525-01 AND 805-525-02 (DETAIL 3) FOR NON-MOW STRIP DETAILS.*
4. *SEE SCDOT STD. DWG. SECTIONS 805-000, 805-100, 805-200, AND 805-300 FOR GUARDRAIL.*
5. *SEE SCDOT STD. DWG. NOS. 720-105-01 AND 720-105-02 FOR DETAILS OF CONCRETE CURB AND GUTTER.*





USE THIS SECTION FOR NORTH AND SOUTH ROUNDABOUT
STA.10+00.00 TO STA.13+45.58

** PG=POINT OF FINISHED GRADE
*** PR=POINT OF ROTATION

Ø ADD 3.75' WHERE GUARDRAIL IS USED (SEE NOTE 4)

■ USE 6:1 SLOPE (< 5')
4:1 SLOPE (5' - 10')
2:1 MAX SLOPE (> 10')

▲ USE SILT FENCE AT THE TOE OF ALL SLOPES PER SCDOT STD. DWG. NO. 815-605-00

1	●	HMA SURFACE TYPE B (200 LBS/SY)
2	▨	HMA INTERMEDIATE TYPE B (400 LBS/SY)
3	○	BUILDUP AND LEVELING: USE HMA SURFACE TYPE E FOR < 1.5" USE HMA INTERMEDIATE TYPE B FOR > 1.5"
4	▨	HMA BASE TYPE A (1050 LBS/SY)
5	▭	EXISTING PAVEMENT IN PLACE (RETAIN WHERE APPLICABLE)
6	▨	STAINED CONCRETE PAVEMENT (8" UNIFORM)

ROUTE NO.	FUNCTIONAL CLASSIFICATION	DESIGN SPEED		
		MPH	FROM STA.	TO STA.
ROUNDABOUTS		20	10+00.00	13+45.58

PAVEMENT DESIGN

APPROVED BY

DATE

KCI TECHNOLOGIES
ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA KCI TECHNOLOGIES, INC. No. C00651 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER 29683214AC480 No. 21580 10/1/2025 BRIAN WAYNE KEYS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

SCALE = NTS

YORK COUNTY

TYPICAL SECTION
NORTH ROUNDABOUT
SOUTH ROUNDABOUT

SCALE : 5.000000 ' / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\03 Typical_Section1_RAB.dgn

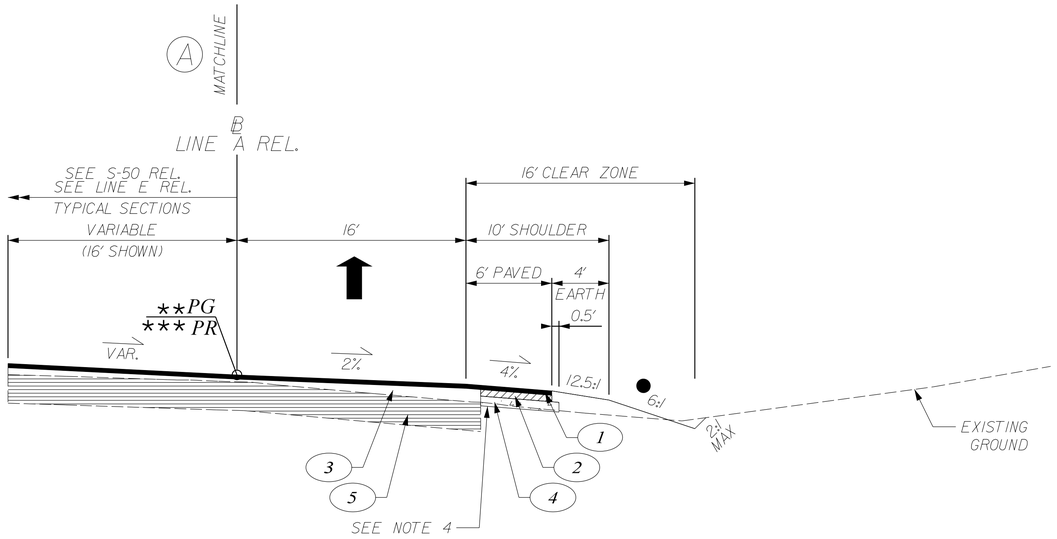
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	3C

TYPICAL SECTION OF IMPROVEMENT

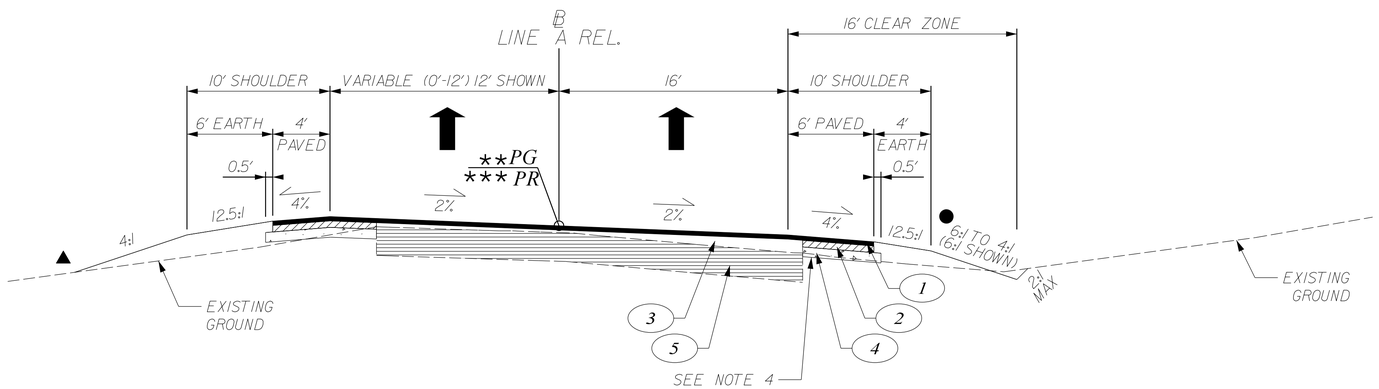
● THIS SLOPE MAY BE VARIED WHEN A DEEPER DITCH IS NECESSARY FOR DRAINAGE PURPOSES, USING A MINIMUM SLOPE OF 12.5:1 AND A MAXIMUM SLOPE OF 4:1. WHERE A DEEPER DITCH THAN PROVIDED BY A 4:1 IS NECESSARY, THE DITCH SHALL BE PLACED FARTHER FROM THE ℄ CONTINUING THE 4:1 SLOPE TO PROVIDE FOR THE NECESSARY DEPTH.

NOTES:

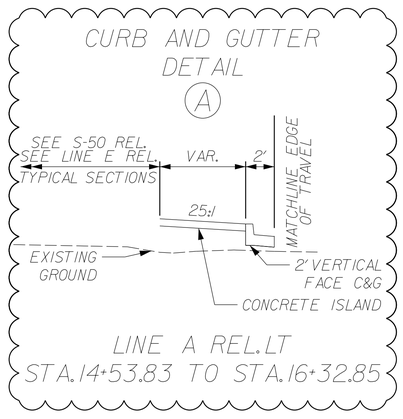
1. *PAVEMENT SLOPES, SHOULDER SLOPES, AND DITCH SLOPES MAY VARY FROM THOSE SHOWN ON TYPICAL SECTION. SEE CROSS SECTIONS FOR MORE DETAIL.*
2. *THE EXISTING PAVEMENT AND OVERLAY IS TYPICAL. SEE CROSSS SECTIONS FOR AREAS OF BUILDUP AND VARIATIONS IN EXISTING PAVEMENT WIDTHS.*
3. *SEE SCDOT STD. DWG. NOS. 720-105-01 AND 720-105-02 FOR DETAILS OF CONCRETE CURB AND GUTTER.*
4. *THE MINIMUM WIDTH OF WIDENING SHALL BE 4.5'. SAWCUT AND REMOVE EXISITING PAVEMENT IN AREAS OF WIDENING THAT ARE LESS THAN 4.5' IN ORDER TO ACHIEVE THE REQUIRED MINIMUM WIDTH OF WIDENING.*
5. *SAW CUT TIE-INS TO EXISTING PAVEMENT.*



USE THIS SECTION FOR
LINE A RELOCATED
STA.13+09.16 TO STA.16+90.12



USE THIS SECTION FOR
LINE A RELOCATED
STA.16+90.12 TO STA.21+73.50



LINE A REL.LT
STA.14+53.83 TO STA.16+32.85

** PG=POINT OF FINISHED GRADE
*** PR=POINT OF ROTATION

■ *USE 6:1 SLOPE (< 5')*
4:1 SLOPE (5' - 10')
2:1 MAX SLOPE (> 10')

▲ *USE SILT FENCE AT THE TOE OF ALL SLOPES PER SCDOT STD. DWG. NO. 815-605-00*

1	●	*HMA SURFACE TYPE B (200 LBS/SY)*
2	▨	*HMA INTERMEDIATE TYPE B (400 LBS/SY)*
3	○	*BUILDUP AND LEVELING:* *USE HMA SURFACE TYPE E FOR < 1.5"* *USE HMA INTERMEDIATE TYPE B FOR > 1.5"*
4	◌	*HMA BASE TYPE A (1000 LBS/SY)*
5	▭	*EXISTING PAVEMENT IN PLACE (RETAIN WHERE APPLICABLE)*

ROUTE NO.	FUNCTIONAL CLASSIFICATION	DESIGN SPEED		
		MPH	FROM STA.	TO STA.
LINE A REL.	RAMP	40	13+09.16	21+73.50

PAVEMENT DESIGN

APPROVED BY

DATE

KCI TECHNOLOGIES
ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — No. 21580 — 10/1/2025 — REGISTERED PROFESSIONAL ENGINEER — BRYAN WAYNE HESS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

TYPICAL SECTION
LINE A RELOCATED

SCALE = NTS

SCALE : 5.000000 ' / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02. Working\Roadway\DGN\Plan Sheets\03 Typical_Section1_RAB.dgn

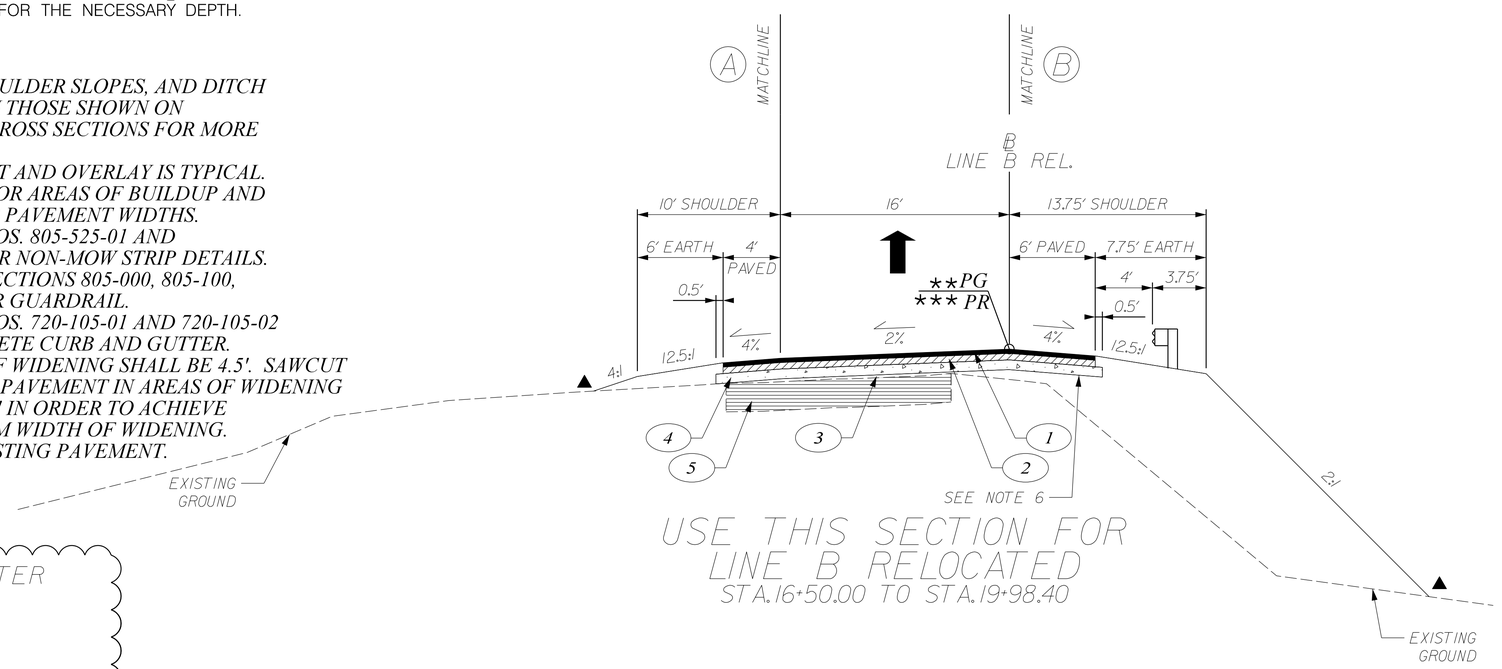
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	3D

TYPICAL SECTION OF IMPROVEMENT

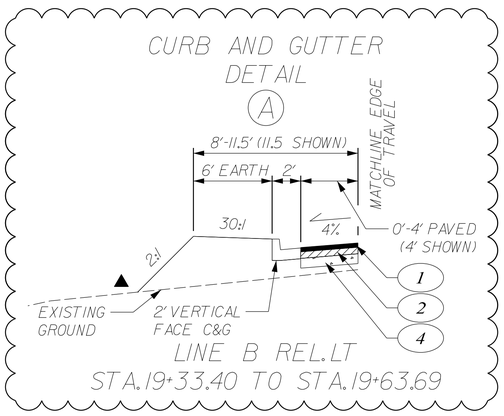
● THIS SLOPE MAY BE VARIED WHEN A DEEPER DITCH IS NECESSARY FOR DRAINAGE PURPOSES, USING A MINIMUM SLOPE OF 12.5:1 AND A MAXIMUM SLOPE OF 4:1. WHERE A DEEPER DITCH THAN PROVIDED BY A 4:1 IS NECESSARY, THE DITCH SHALL BE PLACED FARTHER FROM THE ℄ CONTINUING THE 4:1 SLOPE TO PROVIDE FOR THE NECESSARY DEPTH.

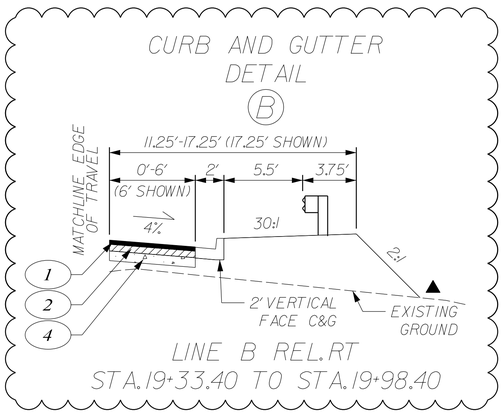
NOTES:

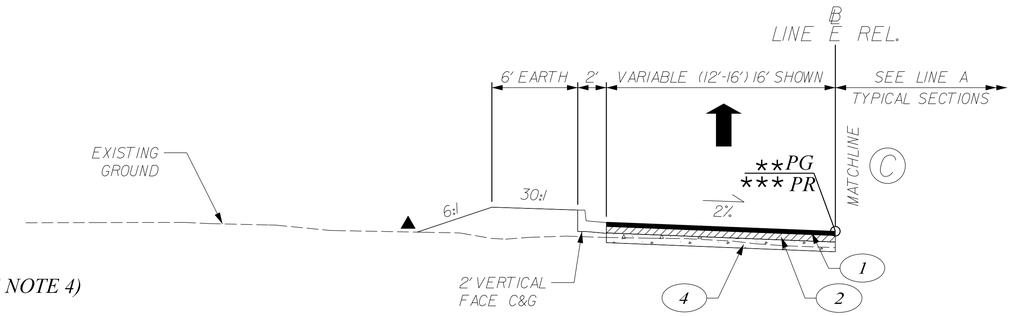
1. *PAVEMENT SLOPES, SHOULDER SLOPES, AND DITCH SLOPES MAY VARY FROM THOSE SHOWN ON TYPICAL SECTION. SEE CROSS SECTIONS FOR MORE DETAIL.*
2. *THE EXISTING PAVEMENT AND OVERLAY IS TYPICAL. SEE CROSSS SECTIONS FOR AREAS OF BUILDUP AND VARIATIONS IN EXISTING PAVEMENT WIDTHS.*
3. *SEE SCDOT STD. DWG. NOS. 805-525-01 AND 805-525-02 (DETAIL 3) FOR NON-MOW STRIP DETAILS.*
4. *SEE SCDOT STD. DWG. SECTIONS 805-000, 805-100, 805-200, AND 805-300 FOR GUARDRAIL.*
5. *SEE SCDOT STD. DWG. NOS. 720-105-01 AND 720-105-02 FOR DETAILS OF CONCRETE CURB AND GUTTER.*
6. *THE MINIMUM WIDTH OF WIDENING SHALL BE 4.5'. SAWCUT AND REMOVE EXISITING PAVEMENT IN AREAS OF WIDENING THAT ARE LESS THAN 4.5' IN ORDER TO ACHIEVE THE REQUIRED MINIMUM WIDTH OF WIDENING.*
7. *SAW CUT TIE-INS TO EXISTING PAVEMENT.*



USE THIS SECTION FOR LINE B RELOCATED
STA.16+50.00 TO STA.19+98.40







USE THIS SECTION FOR LINE E RELOCATED
STA.15+56.35 TO STA.16+90.02

** PG=POINT OF FINISHED GRADE
*** PR=POINT OF ROTATION

∅ *ADD 3.75' WHERE GUARDRAIL IS USED (SEE NOTE 4)*

■ *USE 6:1 SLOPE (<5')*
4:1 SLOPE (5' - 10')
2:1 MAX SLOPE (>10')

▲ *USE SILT FENCE AT THE TOE OF ALL SLOPES PER SCDOT STD. DWG. NO. 815-605-00*

1	●	*HMA SURFACE TYPE B (200 LBS/SY)*
2	▨	*HMA INTERMEDIATE TYPE B (400 LBS/SY)*
3	○	*BUILDUP AND LEVELING: USE HMA SURFACE TYPE E FOR < 1.5" USE HMA INTERMEDIATE TYPE B FOR > 1.5"*
4	◌	*HMA BASE TYPE A (1000 LBS/SY)*
5	▤	*EXISTING PAVEMENT IN PLACE (RETAIN WHERE APPLICABLE)*

ROUTE NO.	FUNCTIONAL CLASSIFICATION	DESIGN SPEED		
		MPH	FROM STA.	TO STA.
LINE B REL.	RAMP	40	16+50.00	19+98.40
LINE E REL.	RAMP	40	15+56.35	16+90.02

PAVEMENT DESIGN

APPROVED BY

DATE

KCI TECHNOLOGIES
ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA KCI TECHNOLOGIES, INC. No. C00651 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 21580 BRIAN WAYNE REYES

10/1/2025

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

TYPICAL SECTION
LINE B
LINE E

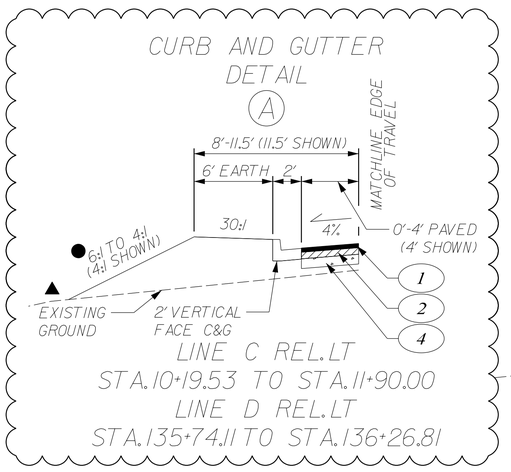
SCALE = NTS

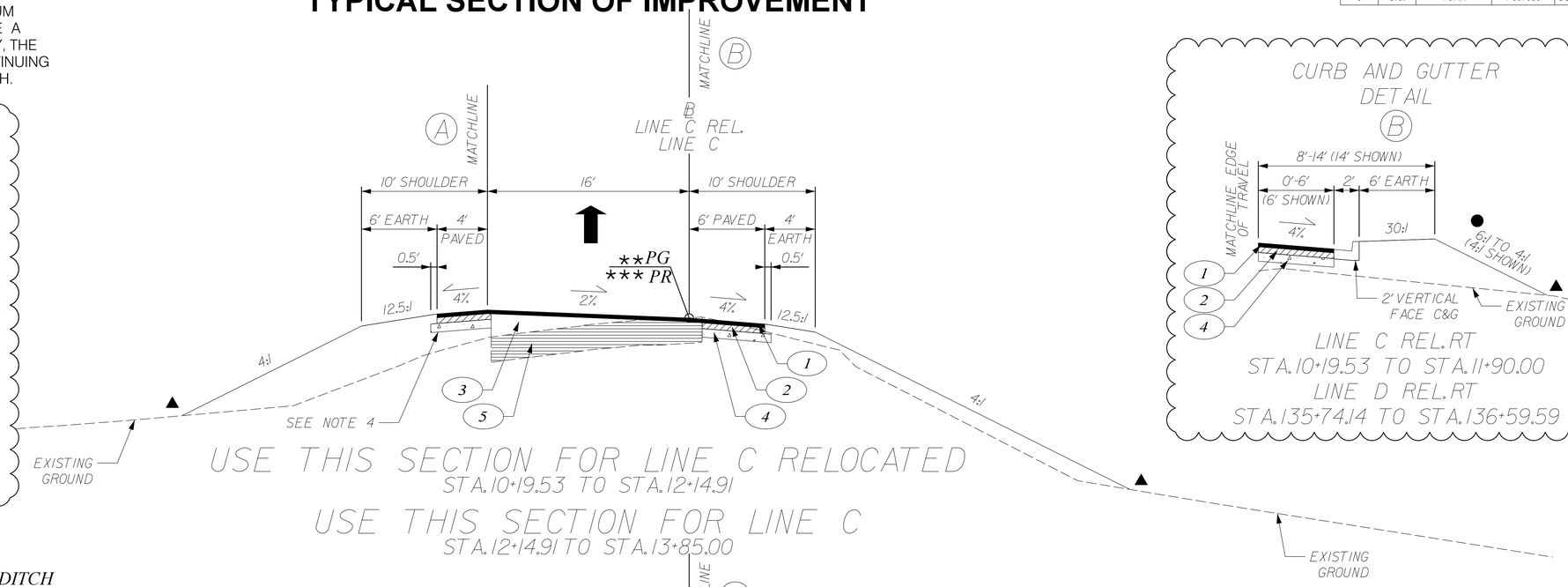
SCALE : 5.000000 ' / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\251903786\2. Working\Roadway\DGN\Plan Sheets\03 Typical_Section1_RAB.dgn

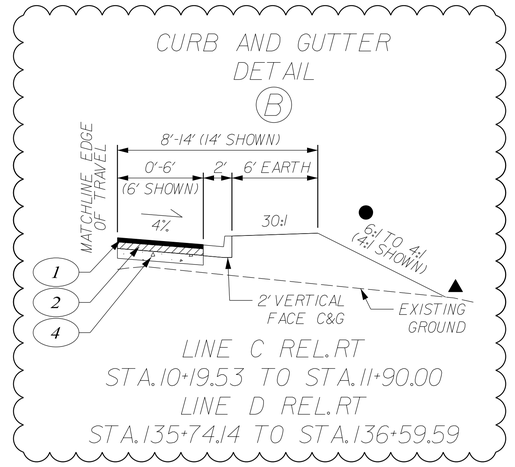
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	3E

TYPICAL SECTION OF IMPROVEMENT

● THIS SLOPE MAY BE VARIED WHEN A DEEPER DITCH IS NECESSARY FOR DRAINAGE PURPOSES, USING A MINIMUM SLOPE OF 12.5:1 AND A MAXIMUM SLOPE OF 4:1. WHERE A DEEPER DITCH THAN PROVIDED BY A 4:1 IS NECESSARY, THE DITCH SHALL BE PLACED FARTHER FROM THE Ⓑ CONTINUING THE 4:1 SLOPE TO PROVIDE FOR THE NECESSARY DEPTH.







NOTES:

1. *PAVEMENT SLOPES, SHOULDER SLOPES, AND DITCH SLOPES MAY VARY FROM THOSE SHOWN ON TYPICAL SECTION. SEE CROSS SECTIONS FOR MORE DETAIL.*
2. *THE EXISTING PAVEMENT AND OVERLAY IS TYPICAL. SEE CROSSS SECTIONS FOR AREAS OF BUILDUP AND VARIATIONS IN EXISTING PAVEMENT WIDTHS.*
3. *SEE SCDOT STD. DWG. NOS. 720-105-01 AND 720-105-02 FOR DETAILS OF CONCRETE CURB AND GUTTER.*
4. *THE MINIMUM WIDTH OF WIDENING SHALL BE 4.5'. SAWCUT AND REMOVE EXISITING PAVEMENT IN AREAS OF WIDENING THAT ARE LESS THAN 4.5' IN ORDER TO ACHIEVE THE REQUIRED MINIMUM WIDTH OF WIDENING.*
5. *SAW CUT TIE-INS TO EXISTING PAVEMENT.*

*** PG=POINT OF FINISHED GRADE*
**** PR=POINT OF ROTATION*

■ *USE 6:1 SLOPE (< 5')*
4:1 SLOPE (5' - 10')
2:1 MAX SLOPE (>10')
▲ *USE SILT FENCE AT THE TOE OF ALL SLOPES PER SCDOT STD. DWG. NO. 815-605-00*

1	●	*HMA SURFACE TYPE B (200 LBS/SY)*
2	▨	*HMA INTERMEDIATE TYPE B (400 LBS/SY)*
3	○	*BUILDUP AND LEVELING:* *USE HMA SURFACE TYPE E FOR < 1.5"* *USE HMA INTERMEDIATE TYPE B FOR > 1.5"*
4	▭	*HMA BASE TYPE A (1000 LBS/SY)*
5	▬	*EXISTING PAVEMENT IN PLACE (RETAIN WHERE APPLICABLE)*

ROUTE NO.	FUNCTIONAL CLASSIFICATION	DESIGN SPEED		
		MPH	FROM STA.	TO STA.
LINE C	RAMP	40	10+19.53	13+85.00
LINE D REL.	RAMP	40	126+00.00	136+59.59

PAVEMENT DESIGN

APPROVED BY

DATE

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA KCI TECHNOLOGIES, INC. No. C00651 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 21580 10/1/2025 BRIAN WAYNE KEYS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION	SCALE = NTS
5				YORK COUNTY
4				
3				TYPICAL SECTION LINE C LINE D RELOCATED
2				
1				

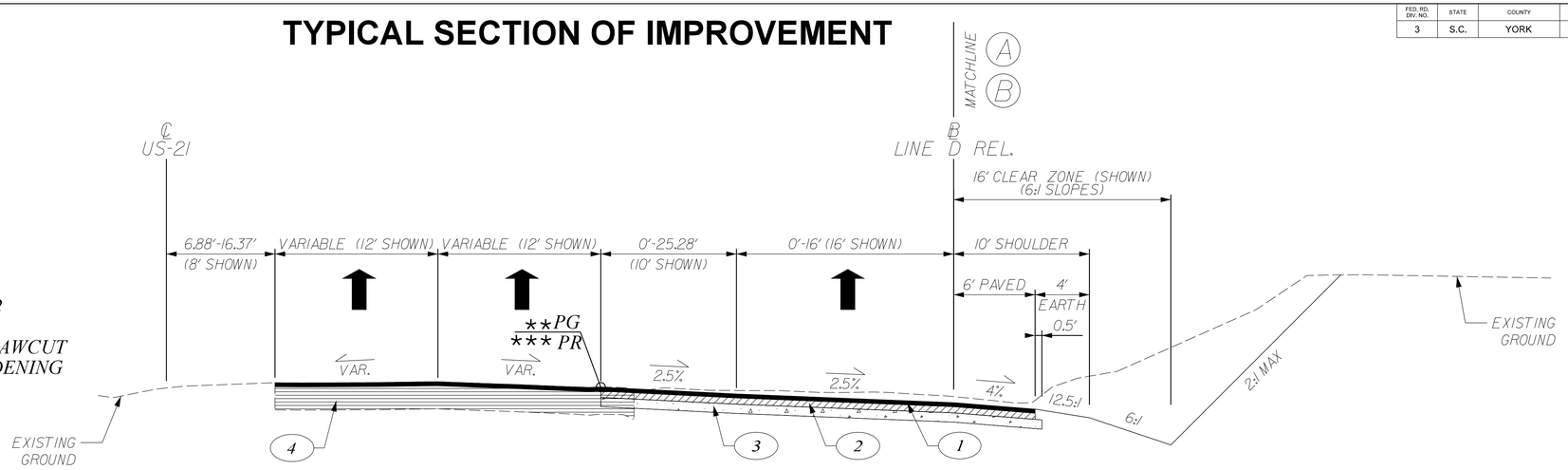
SCALE : 5.000000 ' / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\03 Typical_Section1_RAB.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	3F

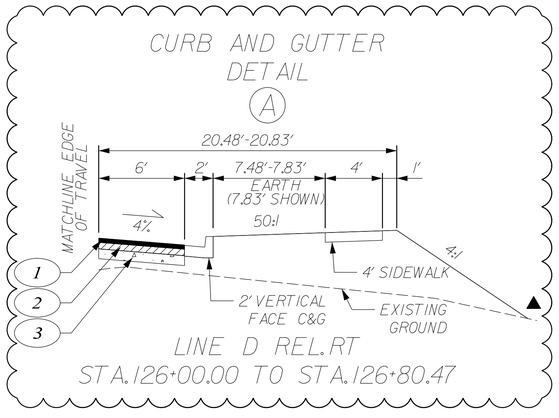
TYPICAL SECTION OF IMPROVEMENT

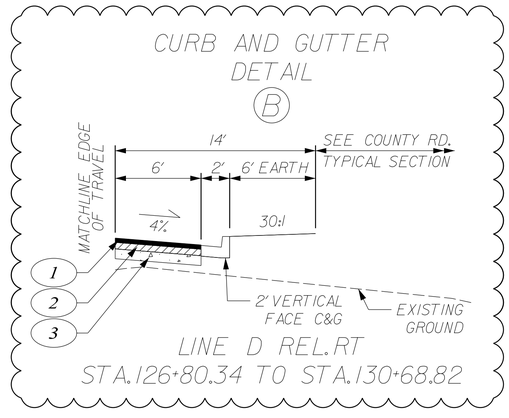
NOTES:

1. *PAVEMENT SLOPES, SHOULDER SLOPES, AND DITCH SLOPES MAY VARY FROM THOSE SHOWN ON TYPICAL SECTION. SEE CROSS SECTIONS FOR MORE DETAIL.*
2. *THE EXISTING PAVEMENT AND OVERLAY IS TYPICAL. SEE CROSSS SECTIONS FOR AREAS OF BUILDUP AND VARIATIONS IN EXISTING PAVEMENT WIDTHS.*
3. *SEE SCDOT STD. DWG. NOS. 805-525-01 AND 805-525-02 (DETAIL 3) FOR NON-MOW STRIP DETAILS.*
4. *SEE SCDOT STD. DWG. SECTIONS 805-000, 805-100, 805-200, AND 805-300 FOR GUARDRAIL.*
5. *SEE SCDOT STD. DWG. NOS. 720-105-01 AND 720-105-02 FOR DETAILS OF CONCRETE CURB AND GUTTER.*
6. *THE MINIMUM WIDTH OF WIDENING SHALL BE 4.5'. SAWCUT AND REMOVE EXISITING PAVEMENT IN AREAS OF WIDENING THAT ARE LESS THAN 4.5' IN ORDER TO ACHIEVE THE REQUIRED MINIMUM WIDTH OF WIDENING.*
7. *SAW CUT TIE-INS TO EXISTING PAVEMENT.*



USE THIS SECTION FOR LINE D RELOCATED
STA. 126+00.00 TO STA. 131+31.06





*** PG=POINT OF FINISHED GRADE*
**** PR=POINT OF ROTATION*

■ *USE 6:1 SLOPE (< 5')*
4:1 SLOPE (5' - 10')
2:1 MAX SLOPE (> 10')

▲ *USE SILT FENCE AT THE TOE OF ALL SLOPES PER SCDOT STD. DWG. NO. 815-605-00*

1	*HMA SURFACE TYPE B (200 LBS/SY)*
2	*HMA INTERMEDIATE TYPE B (400 LBS/SY)*
3	*HMA BASE TYPE A (1000 LBS/SY)*
4	*EXISTING PAVEMENT IN PLACE (RETAIN WHERE APPLICABLE)*

ROUTE NO.	FUNCTIONAL CLASSIFICATION	DESIGN SPEED		
		MPH	FROM STA.	TO STA.
LINE D REL.	RAMP	40	126+00.00	136+59.59

PAVEMENT DESIGN

APPROVED BY

DATE

KCI TECHNOLOGIES
ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

KCI TECHNOLOGIES, INC. No. C00651 — CERTIFICATE OF AUTHORIZATION — SOUTH CAROLINA

SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 21580 — 10/1/2025 — JOHN WAYNE KEYS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

TYPICAL SECTION
LINE D RELOCATED

SCALE = NTS

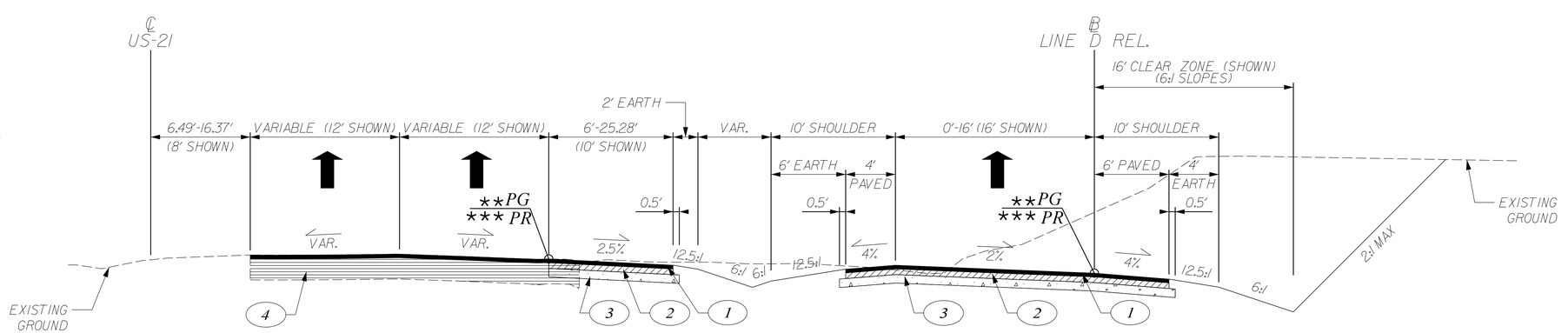
SCALE : 5.000000 ' / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02. Working\Roadway\DGN\Plan Sheets\03 Typical_Section1_RAB.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	3G

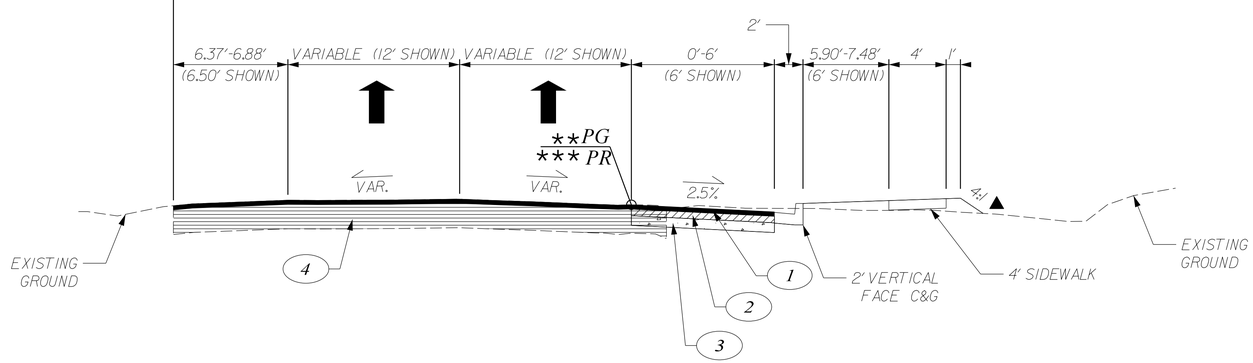
TYPICAL SECTION OF IMPROVEMENT

NOTES:

1. *PAVEMENT SLOPES, SHOULDER SLOPES, AND DITCH SLOPES MAY VARY FROM THOSE SHOWN ON TYPICAL SECTION. SEE CROSS SECTIONS FOR MORE DETAIL.*
2. *THE EXISTING PAVEMENT AND OVERLAY IS TYPICAL. SEE CROSSS SECTIONS FOR AREAS OF BUILDUP AND VARIATIONS IN EXISTING PAVEMENT WIDTHS.*
3. *SEE SCDOT STD. DWG. NOS. 805-525-01 AND 805-525-02 (DETAIL 3) FOR NON-MOW STRIP DETAILS.*
4. *SEE SCDOT STD. DWG. NOS. 720-105-01 AND 720-105-02 FOR DETAILS OF CONCRETE CURB AND GUTTER.*
5. *SAW CUT TIE-INS TO EXISTING PAVEMENT.*



USE THIS SECTION FOR
LINE D RELOCATED
STA.131+31.06 TO STA.132+92.67



USE THIS SECTION FOR
US-21
STA.125+12.56 TO STA.126+00.00
SIDEWALK RT FROM STA.125+45.23 TO STA.126+00.00

** PG=POINT OF FINISHED GRADE
*** PR=POINT OF ROTATION

■ *USE 6:1 SLOPE (<5')*
4:1 SLOPE (5' - 10')
2:1 MAX SLOPE (>10')

▲ *USE SILT FENCE AT THE TOE OF ALL SLOPES PER SCDOT STD. DWG. NO. 815-605-00*

1	HMA SURFACE TYPE B (200 LBS/SY)
2	HMA INTERMEDIATE TYPE B (400 LBS/SY)
3	HMA BASE TYPE A (1000 LBS/SY)
4	EXISTING PAVEMENT IN PLACE (RETAIN WHERE APPLICABLE)

ROUTE NO.	FUNCTIONAL CLASSIFICATION	DESIGN SPEED		
		MPH	FROM STA.	TO STA.
LINE D REL.	RAMP	40	126+00.00	136+59.59
US-21	URBAN PRINCIPAL ARTERIAL	45	125+12.56	133+13.70

PAVEMENT DESIGN

APPROVED BY

DATE

KCI TECHNOLOGIES
ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA KCI TECHNOLOGIES, INC. No. C00651 CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036832 No. 21580 10/1/2025 BRIAN WAYNE KEYS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

TYPICAL SECTION
LINE D RELOCATED
US-21

SCALE = NTS

SCALE : 5.000000 ' / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\03 Typical_Section1_RAB.dgn

SCDOT
South Carolina Department of Transportation

RIGHT-OF-WAY DATA SHEET

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE/ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	US 21 / S-50	4

TRACT NO.	PROPERTY OWNER	TAX MAP REFERENCE	TOTAL TRACT ACRES	OBTAIN				REMAINDER LEFT ACRES [A]	REMAINDER RIGHT ACRES [A]	DATE ACQUIRED	TYPE OF INSTRUMENT	PERMISSION (YES)					REMARKS
				OUTFALL DITCH	LEFT	RIGHT	TOTAL					OUTFALL DITCH	SLOPE	DRAINAGE STRUCTURE	EROSION CONTROL	ENTRANCE CONSTRUCTION	
1	DONALD F. AITKEN	673-00-00-099	0.93														
2	DONALD R. JANUS JR.	673-00-00-100	0.50														
3	DONALD R. JANUS JR.	673-00-00-101	0.67														
4	BRENDA T. OSBORNE	673-00-00-102	1.03														
5	THOMAS B. CARTER SR.	671-00-00-066	1.60														
6	PEGGY CARTER WEATHERS LIFE ESTATE	671-00-00-065	1.10			2565 SF (0.059 AC)	2565 SF (0.059 AC)		1.041								
7	PEGGY CARTER WEATHERS LIFE ESTATE	671-00-00-035	0.72														
8	PEGGY CARTER WEATHERS LIFE ESTATE	671-00-00-034	0.53			7327 SF (0.168 AC)	7327 SF (0.168 AC)		0.362								
9	ROCK HILL ECONOMIC DEVELOPMENT CORP.	669-04-01-113	12.09			25607 SF (0.588 AC)	25607 SF (0.588 AC)		11.502								Identify driveway removal in aquisition
10	SP ROCK HILL LEGACY EAST #8 LLC	671-00-00-086	23.45														
11	GCP-LEGACY PARK WEST LLC	669-04-01-017	30.34														
12	THE WILLIAMS AND LESSLIE TRUST PARTNERSHIP	671-00-00-085	1.22		53144 SF (1.220 AC)		53144 SF (1.220 AC)	0 SF									9/19/2023 The Right of Way tract area taken from Plat DB 621 - PG 421
13	TIMOTHY G. STEELE AND DEBORAH M. STEELE	671-00-00-032	1.09		7614 SF (0.175 AC)		7614 SF (0.175 AC)	0.915									
14	RAVONDA PEARSON AND MARTHA MENDENHALL	671-00-00-006	0.82														
15	MOUWAFAK A. GHANNAM AND GASSAN M. GHANNAM	671-00-00-007	0.82														
16	MOUWAFAK A. GHANNAM AND GASSAN M. GHANNAM	671-00-00-008	0.79														
17	MOUWAFAK A. GHANNAM AND GASSAN M. GHANNAM	671-00-00-009	0.75														
18	EDWARD CRAIG, et al	671-00-00-010	0.72			626 SF (0.014 AC)	626 SF (0.014 AC)		0.706								
19	BETTY BOATWRIGHT	671-00-00-011	0.64			2950 SF (0.068 AC)	2950 SF (0.068 AC)		0.572								
20	NEBEYU KEDIR	671-00-00-012	0.61			888 SF (0.020 AC)	888 SF (0.020 AC)		0.590								
21	MICHAEL B. RATCLIFFE	671-00-00-013	0.23			10018 SF (0.230 AC)	10018 SF (0.230 AC)		0 SF								
22	LARRY WAYNE DRAKEFORD	671-00-00-014	0.34														
23	LARRY WAYNE DRAKEFORD	671-00-00-015	0.39														
24	LARRY WAYNE DRAKEFORD	671-00-00-016	0.41			337 SF (0.008 AC)	337 SF (0.008 AC)		0.402								
25	MARILYN M. ROLLINGS	671-00-00-017	0.43														
26	JIMMY A. HAYNES AND MARTHA J. HAYNES	671-00-00-018	0.37														
27	JIMMY A. HAYNES AND MARTHA J. HAYNES	671-00-00-019	0.41														
28	JOANNE E. SLANEY	671-00-00-020	1.70														
29	ERNEST C. LAMBERT AND ANITA R. LAMBERT	671-00-00-021	1.05														
30	335-365 E SPRINGDALE LLC	669-04-01-011	10.45														
31	SL WILLIAMS INDUSTRIAL I LLC	669-04-01-129	46.11			6301 SF (0.145 AC)	6301 SF (0.145 AC)		45.965								Obtain Temporary R/W = 1000 SF (0.023 AC)

DATE	TRACT NO.	REMARKS
9/4/2024	31	New Temporary R/W

R/W NOTE:
THE DEPARTMENT WILL UTILIZE THE PRESENT RIGHT OF WAY AS SHOWN BELOW EXCEPT AS OTHERWISE SHOWN ON PLANS.

ROAD / ROUTE #	FILE #	R/W WIDTH	YEAR ACQ'D.

NOTES:
A. SHOW REMAINDER IN SQUARE FEET WHEN LESS THAN 0.25 ACRE.
B. SHOW OBTAIN SQUARE FOOTAGE AS ROUNDED UP TO THE NEAREST WHOLE NUMBER.

9/6/2024
c:\dms\pwise\chase.freeman\d0149289\[2519037B6_004_RWDS_RAB.xlsm]RWDS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	4A

℄ S-50 (SPRINGDALE RD)

℄ US-21

℄ S-143 (CATAWBA CHURCH RD)

℄ S-50 (SPRINGDALE RD)

℄ COUNTY RD

℄ LINE A

℄ LINE A REL.

℄ LINE D REL.

℄ LINE E REL.

℄ RAB NORTH

℄ RAB SOUTH

℄ LINE B REL.

℄ LINE C REL.

℄ LINE B

℄ LINE C

℄ S-50 REL. (SPRINGDALE RD)

PROPERTY LINE - NEW R/W

NEW TRANS.R/W

NEW 25' R/W

NEW 150' R/W

NEW 40' R/W

NEW 70' R/W

TEMP. 95' R/W

END C/A LT

END C/A RT

BEGIN C/A RT

BEGIN C/A LT

N.E.W. C/A

PRESENT 60' R/W (DOCK.46,490 (963)

PRESENT R/W (DOCK.46,490 (963)

PRESENT TRANS. R/W (DOCK.46,490 (963)

PRESENT 33' R/W (DOCK.46,290 (950)

PRESENT R/W (DOCK.46,290 (950)

PRESENT 33' R/W (DOCK.46,490 (963)

PRESENT 33' R/W (DOCK.46,490 (1963)

PRESENT 100' R/W (DOCK.46,490 (963)

PRESENT 50' R/W (DOCK.46,490 (963)

PRESENT 30' R/W (DOCK.46,490 (963)

AREAS TO BE OBTAINED

0 100 200 300 400

KCI TECHNOLOGIES
ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

KCI TECHNOLOGIES, INC. No. C00651 — SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION

BRIAN WAYNE NEES No. 21580 — NORTH CAROLINA PROFESSIONAL ENGINEER SEAL — 10/1/2025

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

PROPERTY STRIP MAP

SCALE 1" = 100'

SCALE : 100.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02. Working\Roadway\DGN\Plan Sheets\04A Property Strip Map.dgn

GENERAL CONSTRUCTION NOTES

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE/ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	US 21/S-50	5

ITEM NO.	PAY ITEM	QUANTITY	PAY UNIT	USE DESCRIPTION
1031000	MOBILIZATION	1.000	LS	PER CONTRACT DOCUMENTS
1032010	BONDS AND INSURANCE	1.000	LS	PER CONTRACT DOCUMENTS
1050800	CONST. STAKES, LINES & GRADES	1.000	EA	PER CONTRACT DOCUMENTS
1052001	UTILITY STAKING	1.000	LS	WHERE DIRECTED BY ENGINEER
2011000	CLEARING & GRUBBING WITHIN RIGHT OF WAY	1.000	LS	FOR CLEARING WITHIN RIGHT OF WAY LIMITS
2023000	REMOVAL & DISPOSAL OF EXISTING PAVEMENT	19.000	SY	FOR TRAFFIC CONTROL AND WHERE DIRECTED BY ENGINEER
2025000	REMOVAL & DISPOSAL OF EXISTING ASPHALT PAVEMENT	1190.000	SY	FOR REMOVAL OF TEMPORARY PAVEMENT
2031000	UNCLASSIFIED EXCAVATION	4071.000	CY	FOR STRIPPING WHERE DIRECTED BY ENGINEER
2081001	FINE GRADING	16633.000	SY	FOR FINAL GRADING
2081001	FINE GRADING	202.000	SY	FOR GRADING DURING CONSTRUCTION
3059900	MAINTENANCE STONE	2000.000	TON	WHERE DIRECTED BY ENGINEER
4011004	LIQUID ASPHALT BINDER PG64-22	1.000	TON	FOR TEMPORARY PAVEMENT AND WEDGING
4011004	LIQUID ASPHALT BINDER PG64-22	3.000	TON	FOR BUILDUP
4011004	LIQUID ASPHALT BINDER PG64-22	4.000	TON	FOR TEMPORARY PAVEMENT
4013990	MILLING EXISTING ASPHALT PAVEMENT (VARIABLE)	1711.000	TON	WHERE DIRECTED BY ENGINEER
4020310	ASPHALT BASE COURSE TYPE A	87.000	TON	FOR TEMPORARY PAVEMENT
4030320	ASPHALT INTERMEDIATE COURSE TYPE B	35.000	TON	FOR BUILDUP
4040320	ASPHALT SURFACE COURSE TYPE B	17.000	TON	FOR TEMPORARY PAVEMENT AND WEDGING
4040360	ASPHALT SURFACE COURSE TYPE E	5.000	TON	FOR BUILDUP
6052122	PORTABLE TERMINAL IMPACT ATTENUATOR-TEST LEVEL 3	7.000	EA	FOR TRAFFIC CONTROL AND WHERE DIRECTED BY ENGINEER
6062000	CONSTRUCTION ZONE ELECTRIC CHANGEABLE MESSAGE SIGN (TRAILER)	5.000	EA	FOR TRAFFIC CONTROL AND WHERE DIRECTED BY ENGINEER
609138A	PAVEMENT MARKINGS (TEMPORARY PAINT) 24"X36" WHITE TRIANGLE YIELD BAR	288.000	LF	FOR TRAFFIC CONTROL AND WHERE DIRECTED BY ENGINEER
6092100	TEMPORARY CLEAR PAVEMENT MARKERS MONO-DIR.-4"X4"	50.000	EA	FOR TRAFFIC CONTROL AND WHERE DIRECTED BY ENGINEER
6092155	TEMPORARY YELLOW PAVEMENT MARKERS MONO-DIR.-4"X4"	200.000	EA	FOR TRAFFIC CONTROL AND WHERE DIRECTED BY ENGINEER
6240005	4" WHITE BROKEN LINES -(GAPS EXCLUDED)-FAST DRY PAINT	1060.000	LF	FOR TRAFFIC CONTROL AND WHERE DIRECTED BY ENGINEER
6240010	4" WHITE BROKEN LINES (PVT. EDGE LINES)-FAST DRY PAINT	45700.000	LF	FOR TRAFFIC CONTROL AND WHERE DIRECTED BY ENGINEER
6240015	8" WHITE SOLID LINES (CROSSWALK&CHANNELIZATION)FAST DRY PAINT	1100.000	LF	FOR TRAFFIC CONTROL AND WHERE DIRECTED BY ENGINEER
6240020	12" WHITE SOLID LINES - FAST DRY PAINT	4220.000	LF	FOR TRAFFIC CONTROL AND WHERE DIRECTED BY ENGINEER
6240025	24" WHITE SOLID LINES (STOP/DIAGONAL LINES)-FAST DRY PAINT	3370.000	LF	FOR TRAFFIC CONTROL AND WHERE DIRECTED BY ENGINEER
6240110	4" YELLOW SOLID LINES (PVT. EDGE&NOPASSING ZONE)-FAST DRY PAINT	53450.000	LF	FOR TRAFFIC CONTROL AND WHERE DIRECTED BY ENGINEER
6240113	6" YELLOW SOLID LINE ON 6" CONC. CURB/MEDIAN - FAST DRY PAINT	170.000	LF	FOR TRAFFIC CONTROL AND WHERE DIRECTED BY ENGINEER
6319505	REMOVAL OF PAVEMENT MARKINGS	20000.000	LF	FOR TRAFFIC CONTROL AND WHERE DIRECTED BY ENGINEER
8063300	72" CHAIN LINK FENCE 72" CHAIN-LINK FENCE	2600.000	LF	WHERE DIRECTED BY ENGINEER
8100100	PERMANENT COVER	5.989	AC	FOR ALL DISTURBED AREAS
8100200	TEMPORARY COVER	2.995	AC	FOR ALL DISTURBED AREAS
8104005	FERTILIZER (NITROGEN)	599.000	LB	FOR ALL DISTURBED AREAS
8104010	FERTILIZER (PHOSPHORIC ACID)	599.000	LB	FOR ALL DISTURBED AREAS
8104015	FERTILIZER (POTASH)	599.000	LB	FOR ALL DISTURBED AREAS
8105005	AGRICULTURAL GRANULAR LIME	11978.000	LB	FOR ALL DISTURBED AREAS
8109050	SELECTIVE WATERING	135750.000	GAL	FOR ALL DISTURBED AREAS
8109901	MOWING	17.980	AC	FOR ALL DISTURBED AREAS
8151110	TEMPORARY EROSION CONTROL BLANKET (ECB)	4.200	MSY	FOR UNSTABLE SLOPES
8151203	H.E.C.P. - TYPE 3	5.360	AC	FOR ALL DISTURBED AREAS
8152007	SEDIMENT TUBES FOR DITCH CHECKS	500.000	LF	WHERE DIRECTED BY ENGINEER
8153090	REPLACE AND REPAIR SILT FENCE	1000.000	LF	FOR MAINTENANCE OF SILT FENCE
8154010	CLEANING SILT BASINS	26.000	CY	WHERE DIRECTED BY ENGINEER
8154050	REMOVAL OF SILT RETAINED BY SILT FENCE	1800.000	LF	FOR MAINTENANCE OF SILT FENCE
8156210	INLET STRUCTURE FILTER-TYPE B	4.000	EA	WHERE DIRECTED BY ENGINEER
8156410	AGGREGATE NO.5 OR 57 FOR EROSION CONTROL	200.000	TON	WHERE DIRECTED BY ENGINEER
8156490	STABILIZED CONSTRUCTION ENTRANCE	550.000	SY	WHERE DIRECTED BY ENGINEER

YORK COUNTY GENERAL CONSTRUCTION NOTES:

THE YORK COUNTY, COUNTY ENGINEER MUST SPECIFICALLY AUTHORIZE CHANGES INVOLVING INCREASED COST OF THE PROJECT OR CHANGES IN ALIGNMENT. THE DISTRICT ENGINEERING ADMINISTRATOR IS PERMITTED UNDER THE DIRECTION OF THE DEPUTY SECRETARY FOR ENGINEERING TO AUTHORIZE MINOR ALTERATIONS NOT IN CONFLICT WITH THE STANDARD PRACTICES OF THE DEPARTMENT. FORWARD INFORMATION ON ANY PROPOSED CHANGES IN ALIGNMENT TO THE YORK COUNTY ENGINEERING OFFICE AT THE EARLIEST AVAILABLE OPPORTUNITY.

SEE INDIVIDUAL CURVES ON REFERENCE DATA SHEET FOR SUPERELEVATION RATE AND DESIGN SPEED, AS APPLICABLE.

THE ABOVE QUANTITIES ARE NOT SHOWN IN DETAIL ON THE PLANS BUT ARE INCLUDED IN THE SUMMARY OF ESTIMATED QUANTITIES AND MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE COUNTY ENGINEER.

SEQUENCE OF CONSTRUCTION:

1. RECEIVE NPDES/NOI COVERAGE FROM SCDES AND ALL OTHER REQUIRED PERMITS BEFORE BEGINNING WORK.
2. PRE-CONSTRUCTION MEETING TO BE HELD ON SITE.
3. NOTIFY SCDES REGIONAL OFFICE OR OCRM OFFICE 48 HOURS PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES.
4. FOR EACH ACTIVE WORK AREA FOLLOWING THE MAINTENANCE OF TRAFFIC AND PROJECT STAGING PLANS FOLLOW THIS SEQUENCE.
5. STABILIZED CONSTRUCTION ENTRANCES TO BE LOCATED AS NEEDED BY THE CONTRACTOR WITHIN THE PROJECT DISTURBED AREA LIMITS AND ARE TO BE INSTALLED AND MAINTAINED PER THE STANDARD DRAWING NO. 815-505-00 AND SPECIFICATIONS.
6. CLEARING AND GRUBBING ONLY AS NECESSARY TO INSTALL ALL PERIMETER CONTROLS PER THE PLANS.
7. INSTALL ALL PERIMETER CONTROLS IN THE ACTIVE WORK AREA.
8. INSTALL DIVERSION PRACTICES, SEDIMENT TUBES, INLET SEDIMENT DAMS, INLET PROTECTIONS, AND OTHER EROSION AND SEDIMENT CONTROL PRACTICES WITHIN THE ACTIVE WORK AREA.
9. COMPLETE CLEARING AND GRUBBING WITHIN THE WORK AREA.
10. PROCEED WITH PROPOSED PROJECT IMPROVEMENTS IN THE WORK AREA INCLUDING GRADING, ROADWAY, DRAINAGE, AND OTHER AS INCLUDED IN THE PLANS.
11. AS DRAINAGE INLETS ARE INSTALLED, ENSURE TO INSTALL THE NOTED INLET PROTECTIONS PER THE PLAN.
12. AS PROPOSED DITCHES ARE CONSTRUCTED AND STABILIZED, INSTALL SEDIMENT TUBES, SEDIMENT DAMS, AND ENHANCED STACKED DITCH CHECKS, AS NOTED ON THE PLANS FOR THE FINAL EC PHASE.
13. COMPLETE FINE GRADING, PAVING, AND FINISHING WORK WITHIN THE CONSTRUCTION AREA AND FINAL STABILIZE THE SITE WITH THE APPROPRIATE SEED, MATTING, AND/OR EROSION CONTROL BLANKETS PER THE PLANS.
14. AS AREAS OF THE SITE ARE COMPLETED AND PERMANENTLY STABILIZED, AND WITH THE APPROVAL OF THE PROJECT INSPECTOR/OWNER, REMOVE THE EROSION AND SEDIMENT CONTROL MEASURES AND MOVE ON TO THE NEXT AREA OF WORK.
15. PERFORM AS-BUILT SURVEYS AS REQUIRED FOR PERMANENT DETENTION STRUCTURES AND SUBMIT TO SCDES FOR ACCEPTANCE.
16. SUBMIT NOTICE OF TERMINATION (NOT) TO SCDES AS APPROPRIATE.

PROJECT CONTACTS	
NAME	TELEPHONE
BRIAN KEYS	803-602-4425

SCDES STANDARD NOTES:

1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.

•WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
•WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.

4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.

5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.

7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. AND SCR100000.

8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.

10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

11. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.

12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.

13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE;

15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).

16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:

•WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
•WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
•FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
•SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.

17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.

19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

TOTAL UNCLASSIFIED EXC. = 18602 CY + 4071 CY (STRIPPING) + 219 CY (EROSION CONTROL) = 22892 CY
(6545 CY OF EXCAVATION WILL BE CONSIDERED WASTE TO BE REMOVED FROM SITE)

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — Signed by: BRIAN WAYNE KEYS — No. 21580 — 2/5/2026

2/3/2026
c:\dms\pwise\chase.freeman\d0149289\[05 General_Construction_Notes_SCDES.xlsx]GCN

DocuSign Envelope ID: 13CC61B7-5F51-49B1-BC3C-24D34436B1B1

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	SC	YORK	N/A	S 21/S-50 Interchang	5A

PROPERTY MONUMENTS FOUND

ALIGNMENT	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
Line B	15+75.43	49.43	1120339.20	2009681.29	IP REBAR & CAP
S-143	12+77.23	35.83	1120033.43	2008545.26	IP #5 REBAR
S-143	10+64.34	33.40	1120075.42	2008345.15	IP #5 REBAR
US 21	122+82.52	38.90	1120085.05	2008049.97	IP #5 REBAR
US 21	121+82.33	38.75	1120086.21	2007949.79	IP #5 REBAR
S-143	19+56.88	23.58	1119711.82	2009119.46	IP #5 REBAR
S-50	31+56.09	46.70	1121167.67	2009780.58	IP #5 REBAR
S-50	31+80.33	70.20	1121184.35	2009809.62	IP #5 REBAR
S-50	32+66.67	68.77	1121267.47	2009831.90	IP #5 REBAR
S-50	32+90.83	44.30	1121297.43	2009815.03	IP #5 REBAR
S-50	33+16.47	44.11	1121322.14	2009821.90	IP #5 REBAR
S-50	14+97.77	55.24	1119571.88	2009332.81	IP 3/4" PINCHTOP
S-50	14+52.70	24.56	1119549.25	2009283.21	IP REBAR & CAP
S-50	11+80.95	31.87	1119313.09	2009148.57	IP 1" PIPE
S-143	24+01.76	33.69	1119393.79	2009430.63	IP 1/2" PIPE
S-143	26+06.01	32.48	1119251.94	2009577.59	IP 3/4" PINCHTOP
S-143	18+57.04	22.87	1119781.03	2009048.05	IP 3/4" PIPE
S-143	25+87.51	22.78	1119304.40	2009602.96	IP 1/2" PIPE
S-143	23+77.23	-25.26	1119453.10	2009454.27	IP 3/4" PINCHTOP
Line C	12+39.18	193.56	1119560.13	2009627.71	IP 2" ANGLE IRON
S-50	12+94.17	29.66	1119411.04	2009205.38	REBAR
S-50	12+71.64	-23.11	1119419.14	2009148.57	IP 1" FLAT BAR
S-50	12+96.52	-152.46	1119507.48	2009050.86	IP 1.5" PIPE
S-143	19+63.48	219.17	1119567.14	2008987.67	IP 1" FLAT BAR
S-143	19+63.31	219.32	1119567.15	2008987.46	IP 5/8" ROD
S-143	16+00.99	197.74	1119765.93	2008769.71	IP 5/8" ROD
S-143	11+01.02	354.96	1119752.64	2008341.99	IP 3/4" PIPE
US 21	122+78.02	407.86	1119716.15	2008041.75	IP 5/8" ROD
US 21	123+77.74	396.29	1119726.72	2008141.59	IP 3/4" PIPE
S-50	18+34.42	448.82	1119708.40	2009857.01	IP 1/2" PIPE
S-50	17+45.08	-50.05	1119837.23	2009365.20	IP ANGLE IRON

SURVEY CONTROL POINTS

POINT ID	ALIGNMENT	STATION	OFFSET	NORTHING	EASTING	ELEV.	DESCRIPTION
1	US 21	138+00.75	-2735.72	1122674.4120	2010306.0610	670.91	#5 REBAR & CAP
2	US 21	125+48.38	2140.58	1117980.8060	2008294.6620	635.06	#5 REBAR & CAP
3	US 21	137+38.34	-1817.75	1121822.2710	2009938.6260	668.62	#5 REBAR & CAP
4	US 21	130+15.08	1406.53	1118710.1130	2008768.7240	653.01	#5 REBAR & CAP
5	S-50	31+82.97	-38.45	1121216.3910	2009705.7650	672.59	#5 REBAR & CAP
6	S-50	23+62.16	16.39	1120396.3490	2009615.2760	682.46	#5 REBAR & CAP
7	S-50	17+85.80	16.17	1119843.6640	2009442.4840	668.61	#5 REBAR & CAP
8	S-50	15+09.69	28.33	1119596.0280	2009315.9810	663.57	#5 REBAR & CAP
9	S-50	10+32.66	-13.27	1119209.6900	2009033.0820	662.72	#5 REBAR & CAP

PROJECT BENCHMARKS

POINT ID	ALIGNMENT	STATION	OFFSET	NORTHING	EASTING	ELEV.	DESCRIPTION
10000	S-50	10+59.13	1532.73	1118430.7600	2010368.7800	653.20	NGS STATION LESSLIE
10001	US 21	126+07.00	1961.56	1118159.2240	2008355.0750	634.67	BENCH TIE IN UTILITY POLE
10002	US 21	137+99.36	-2746.49	1122685.6960	2010305.7230	673.34	BENCH TIE IN 14" PINE

NOTES:

1. The alignment Station and Offset are referenced to the existing Survey Centerline.
2. Date of Survey: 8/26/2019

The Property Monuments Found listed on this sheet are assumed to be property corner monuments, field located during the course of this survey. The Department makes no claim that these located monuments are the true position of any property and takes no responsibility for this information being used as such. These monuments are tied to the control of this project in an effort to document and preserve their location in the event they are disturbed or destroyed during the construction of the project.

SCDOT SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

SURVEY CONTROL DATA

PROJECT DESCRIPTION

US 21/S-50 Interchange

DATUM DESCRIPTION

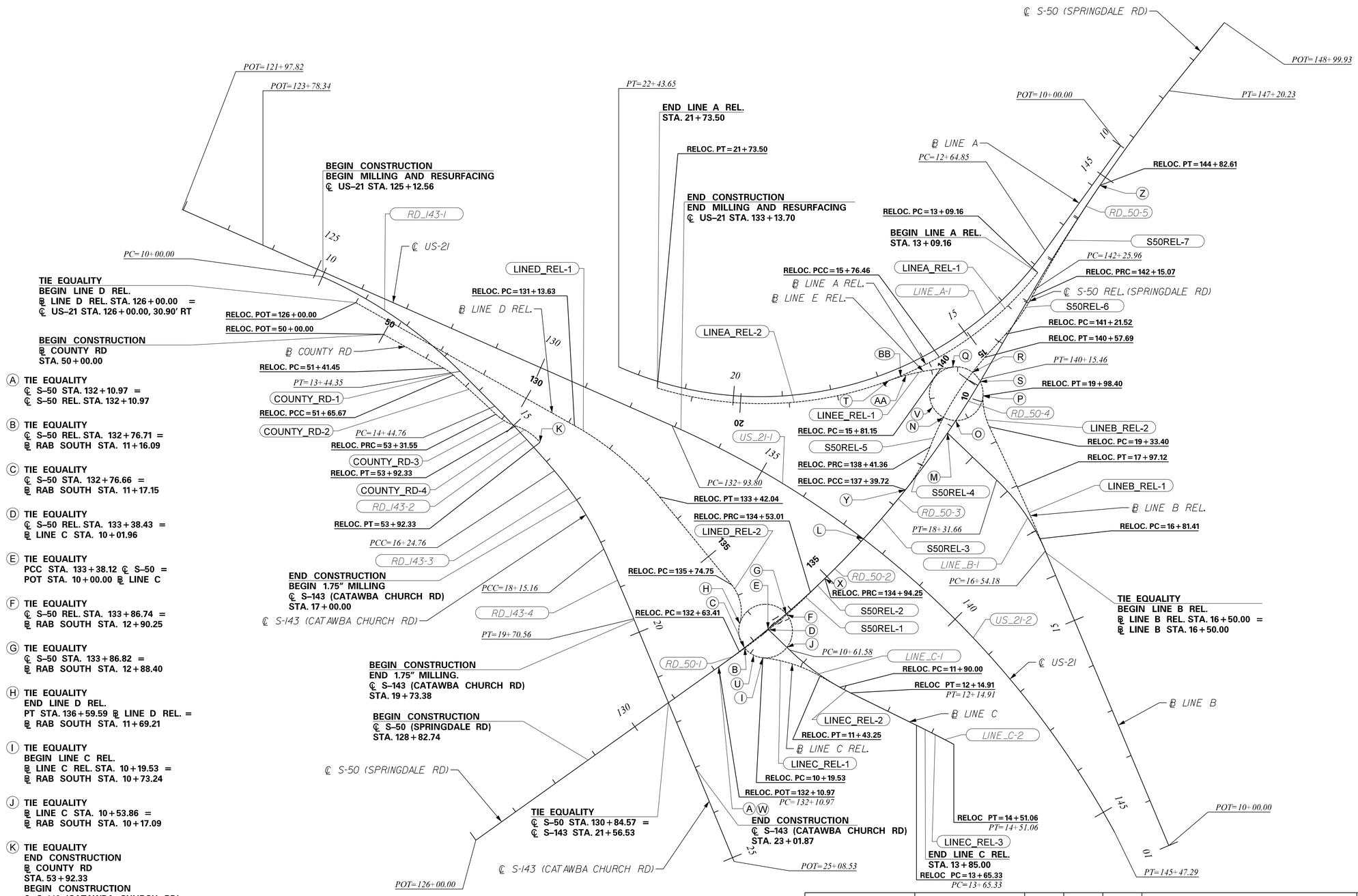
The LOCALIZED Coordinate System developed for this project is based on NAD83 (2011) South Carolina State Plane Coordinate System used to establish the Localization Point. The Localization Point is Primary Survey Control point number LESSLIE with a Northing of 1118430.7650 and an Easting of 2010368.7760. The Combined Scale Factor (CSF) (ground to grid) is 1.00000064. Elevations for this project are based on NAVD88 for LESSLIE with an elevation of 653.2'

SOUTH CAROLINA PROFESSIONAL SEAL 16493 LAND SURVEYOR DAVID L FERGUSON

SOUTH CAROLINA KCI TECHNOLOGIES INC. CONSULTING ENGINEERS No. C00651 CERTIFICATE OF AUTHORIZATION

D:\[S-46-50 Bridge over US 21.xlsm]SCDS 5A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	5B



(A) **TIE EQUALITY**
℄ S–50 STA. 132+10.97 =
℄ S–50 REL. STA. 132+10.97

(B) **TIE EQUALITY**
℄ S–50 REL. STA. 132+76.71 =
℄ RAB SOUTH STA. 11+16.09

(C) **TIE EQUALITY**
℄ S–50 STA. 132+76.66 =
℄ RAB SOUTH STA. 11+17.15

(D) **TIE EQUALITY**
℄ S–50 REL. STA. 133+38.43 =
℄ LINE C STA. 10+01.96

(E) **TIE EQUALITY**
PCC STA. 133+38.12 ℄ S–50 =
POT STA. 10+00.00 ℄ LINE C

(F) **TIE EQUALITY**
℄ S–50 REL. STA. 133+86.74 =
℄ RAB SOUTH STA. 12+90.25

(G) **TIE EQUALITY**
℄ S–50 STA. 133+86.82 =
℄ RAB SOUTH STA. 12+88.40

(H) **TIE EQUALITY**
END LINE D REL.
PT STA. 136+59.59 ℄ LINE D REL. =
℄ RAB SOUTH STA. 11+69.21

(I) **TIE EQUALITY**
BEGIN LINE C REL.
℄ LINE C REL. STA. 10+19.53 =
℄ RAB SOUTH STA. 10+73.24

(J) **TIE EQUALITY**
℄ LINE C STA. 10+53.86 =
℄ RAB SOUTH STA. 10+17.09

(K) **TIE EQUALITY**
END CONSTRUCTION
℄ COUNTY RD
STA. 53+92.33
BEGIN CONSTRUCTION
℄ S–143 (CATAWBA CHURCH RD)
STA. 15+61.87

(L) **TIE EQUALITY**
POC STA. 137+50.31 ℄ US–21 =
PCC STA. 136+07.18 ℄ S–50 =
PCC STA. 136+07.38 ℄ S–50 REL.

(M) **TIE EQUALITY**
PCC STA. 138+84.41 ℄ S–50 =
POT STA. 19+71.03 ℄ LINE B

(N) **TIE EQUALITY**
℄ S–50 REL. STA. 139+08.09 =
℄ RAB NORTH STA. 12+48.79

(O) **TIE EQUALITY**
℄ S–50 STA. 139+15.10 =
℄ RAB NORTH STA. 12+75.11

(P) **TIE EQUALITY**
END LINE B REL.
℄ LINE B REL. STA. 19+33.40 =
℄ RAB NORTH STA. 10+12.11

(Q) **TIE EQUALITY**
BEGIN LINE E REL.
POT STA. 15+56.35 ℄ LINE E REL. =
℄ RAB NORTH STA. 11+10.18

(R) **TIE EQUALITY**
℄ S–50 REL. STA. 140+17.90 =
℄ RAB NORTH STA. 10+67.37

(S) **TIE EQUALITY**
℄ S–50 STA. 140+09.29 =
℄ RAB NORTH STA. 10+42.61

(T) **TIE EQUALITY**
END LINE E REL.
℄ LINE A REL. STA. 16+90.12 =
℄ LINE E REL. STA. 16+90.02 =
RELOC. PT=16+90.02

(U) ℄ RAB SOUTH

(V) ℄ RAB NORTH

(W) **STATION EQUATION**
℄ S–50 STA. 132+10.97 =
℄ S–50 REL. STA. 132+10.97

(X) **STATION EQUATION**
℄ S–50 STA. 134+94.05 =
℄ S–50 REL. STA. 134+94.25

(Y) **STATION EQUATION**
℄ S–50 STA. 137+39.52 =
℄ S–50 REL. STA. 137+39.72

(Z) **STATION EQUATION**
℄ S–50 STA. 144+80.00 =
℄ S–50 REL. STA. 144+82.61

(AA) RELOC. PCC=16+53.43

(BB) LINEE_REL-2

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

0 100 200 300 400

SOUTH CAROLINA KCI TECHNOLOGIES, INC. No. C00651 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER 32680 BRIAN WAYNE REES 10/1/2025

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

REFERENCE DATA SHEET

SCALE 1" = 100'

SCALE : 100.000 ft. / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/30/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\05B Reference Data Sheet.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	5C

℄ S-50 RELOCATED (SPRINGDALE ROAD)

Beginning chain S50REL description

Point 13 N 1,119,697.3201 E 2,009,344.2661 Sta 132+10.97

Course from 13 to PC S50REL-1 N 31° 13′ 47.99″ E Dist 52.4429

Curve Data

Curve S50REL-1					
P.I. Station	133+58.40	N	1,119,823.3888	E	2,009,420.7062
Delta =	8° 54′ 15.09″ (LT)				
Degree =	4° 41′ 46.95″				
Tangent =	94.9898				
Length =	189.5971				
Radius =	1,220.0000				
External =	3.6924				
Long Chord =	189.4064				
Mid. Ord. =	3.6812				
P.C. Station	132+63.41	N	1,119,742.1637	E	2,009,371.4564
P.T. Station	134+53.01	N	1,119,911.2580	E	2,009,456.7903
C.C.		N	1,120,374.7029	E	2,008,328.2430
Back = N	31° 13′ 47.99″ E				
Ahead = N	22° 19′ 32.90″ E				
Chord Bear = N	26° 46′ 40.45″ E				

Curve Data

Curve S50REL-2					
P.I. Station	134+73.63	N	1,119,930.3311	E	2,009,464.6227
Delta =	0° 24′ 44.68″ (RT)				
Degree =	1° 00′ 00.36″				
Tangent =	20.6186				
Length =	41.2371				
Radius =	5,729.0004				
External =	0.0371				
Long Chord =	41.2370				
Mid. Ord. =	0.0371				
P.C. Station	134+53.01	N	1,119,911.2580	E	2,009,456.7903
P.T. Station	134+94.25	N	1,119,949.3472	E	2,009,472.5923
C.C.		N	1,117,734.9664	E	2,014,756.3374
Back = N	22° 19′ 32.90″ E				
Ahead = N	22° 44′ 17.59″ E				
Chord Bear = N	22° 31′ 55.24″ E				

Curve Data

Curve S50REL-3					
P.I. Station	136+17.15	N	1,120,062.7001	E	2,009,520.0976
Delta =	7° 21′ 49.38″ (LT)				
Degree =	2° 59′ 59.37″				
Tangent =	122.9049				
Length =	245.4714				
Radius =	1,909.9700				
External =	3.9503				
Long Chord =	245.3025				
Mid. Ord. =	3.9482				
P.C. Station	134+94.25	N	1,119,949.3472	E	2,009,472.5923
P.T. Station	137+39.72	N	1,120,181.2067	E	2,009,552.6831
C.C.		N	1,120,687.5914	E	2,007,711.0643
Back = N	22° 44′ 17.59″ E				
Ahead = N	15° 22′ 28.21″ E				
Chord Bear = N	19° 03′ 22.90″ E				

Curve Data

Curve S50REL-4					
P.I. Station	137+90.94	N	1,120,230.5908	E	2,009,566.2621
Delta =	17° 29′ 15.75″ (LT)				
Degree =	17° 12′ 21.38″				
Tangent =	51.2170				
Length =	101.6376				
Radius =	333.0000				
External =	3.9157				
Long Chord =	101.2436				
Mid. Ord. =	3.8702				
P.C. Station	137+39.72	N	1,120,181.2067	E	2,009,552.6831
P.T. Station	138+41.36	N	1,120,281.7730	E	2,009,564.3735
C.C.		N	1,120,269.4940	E	2,009,231.6000
Back = N	15° 22′ 28.21″ E				
Ahead = N	2° 06′ 47.54″ W				
Chord Bear = N	6° 37′ 50.34″ E				

C/L S-50 REL. (SPRINGDALE ROAD) SUPERELEVATION TABLE

CURVE	D.S.	RADIUS (FT)	eMAX	e	PC-LG	PT-LG
S50REL-1	25 MPH	1220.00	0.04 FT/FT (METHOD 2)	NC	0.70%	0.70%
S50REL-2	MATCH EXIST.	5729.00	MATCH EXIST.	MATCH EXIST.	MATCH EXIST.	MATCH EXIST.
S50REL-3	MATCH EXIST.	1909.97	MATCH EXIST.	MATCH EXIST.	MATCH EXIST.	MATCH EXIST.
S50REL-4	25 MPH	333.00	0.04 FT/FT (METHOD 2)	NC	0.70%	0.70%

℄ S-50 RELOCATED (SPRINGDALE ROAD)

Curve Data

Curve S50REL-5					
P.I. Station	139+50.71	N	1,120,391.0506	E	2,009,560.3413
Delta =	20° 39′ 28.60″ (RT)				
Degree =	9° 32′ 57.47″				
Tangent =	109.3519				
Length =	216.3295				
Radius =	600.0000				
External =	9.8835				
Long Chord =	215.1596				
Mid. Ord. =	9.7233				
P.C. Station	138+41.36	N	1,120,281.7730	E	2,009,564.3735
P.T. Station	140+57.69	N	1,120,494.7245	E	2,009,595.1201
C.C.		N	1,120,303.8974	E	2,010,163.9654
Back = N	2° 06′ 47.54″ W				
Ahead = N	18° 32′ 41.06″ E				
Chord Bear = N	8° 12′ 56.76″ E				

Course from PT S50REL-5 to PC S50REL-6 N 18° 32′ 41.06″ E Dist 63.8381

Curve Data

Curve S50REL-6					
P.I. Station	141+68.51	N	1,120,599.7911	E	2,009,630.3662
Delta =	13° 19′ 55.75″ (LT)				
Degree =	14° 15′ 09.65″				
Tangent =	46.9829				
Length =	93.5414				
Radius =	402.0000				
External =	2.7362				
Long Chord =	93.3305				
Mid. Ord. =	2.7177				
P.C. Station	141+21.52	N	1,120,555.2478	E	2,009,615.4235
P.T. Station	142+15.07	N	1,120,646.5797	E	2,009,634.6346
C.C.		N	1,120,683.1019	E	2,009,234.2971
Back = N	18° 32′ 41.06″ E				
Ahead = N	5° 12′ 45.31″ E				
Chord Bear = N	11° 52′ 43.19″ E				

Curve Data

Curve S50REL-7					
P.I. Station	143+48.95	N	1,120,779.9157	E	2,009,646.7987
Delta =	5° 50′ 39.11″ (RT)				
Degree =	2° 11′ 03.70″				
Tangent =	133.8897				
Length =	267.5472				
Radius =	2,623.0000				
External =	3.4149				
Long Chord =	267.4313				
Mid. Ord. =	3.4105				
P.C. Station	142+15.07	N	1,120,646.5797	E	2,009,634.6346
P.T. Station	144+82.61	N	1,120,911.3201	E	2,009,672.4763
C.C.		N	1,120,408.2766	E	2,012,246.7871
Back = N	5° 12′ 45.31″ E				
Ahead = N	11° 03′ 24.42″ E				
Chord Bear = N	8° 08′ 04.86″ E				

Ending chain S50REL description

C/L S-50 REL. (SPRINGDALE ROAD) SUPERELEVATION TABLE

CURVE	D.S.	RADIUS (FT)	eMAX	e	PC-LG	PT-LG
S50REL-5	25 MPH	600.00	0.04 FT/FT (METHOD 2)	NC	0.70%	0.70%
S50REL-6	25 MPH	402.00	0.04 FT/FT (METHOD 2)	NC	0.70%	0.70%
S50REL-7	40 MPH	2623.00	MATCH EXIST.	MATCH EXIST.	MATCH EXIST.	MATCH EXIST.

℄ ROUNDABOUT NORTH

Beginning chain RAB_NORTH description

Curve Data

Curve RAB_NORTH-1					
P.I. Station	10+49.68	N	1,120,458.2495	E	2,009,620.1063
Delta =	84° 11′ 02.09″ (LT)				
Degree =	104° 10′ 26.92″				
Tangent =	49.6823				
Length =	80.8108				
Radius =	55.0000				
External =	19.1170				
Long Chord =	73.7355				
Mid. Ord. =	14.1862				
P.C. Station	10+00.00	N	1,120,408.8230	E	2,009,625.1409
P.T. Station	10+80.81	N	1,120,458.2495	E	2,009,570.4240
C.C.		N	1,120,403.2495	E	2,009,570.4240
Back = N	5° 48′ 57.91″ W				
Ahead = Due West					
Chord Bear = N	47° 54′ 28.96″ W				

Curve Data

Curve RAB_NORTH-2					
P.I. Station	11+30.49	N	1,120,458.2495	E	2,009,520.7417
Delta =	84° 11′ 02.09″ (LT)				
Degree =	104° 10′ 26.92″				
Tangent =	49.6823				
Length =	80.8108				
Radius =	55.0000				
External =	19.1170				
Long Chord =	73.7355				
Mid. Ord. =	14.1862				
P.C. Station	10+80.81	N	1,120,458.2495	E	2,009,570.4240
P.T. Station	11+61.62	N	1,120,408.8230	E	2,009,515.7071
C.C.		N	1,120,403.2495	E	2,009,570.4240
Back = Due West					
Ahead = S	5° 48′ 57.91″ W				
Chord Bear = S	47° 54′ 28.96″ W				

Curve Data

Curve RAB_NORTH-3					
P.I. Station	12+22.51	N	1,120,348.2495	E	2,009,509.5371
Delta =	95° 48′ 57.91″ (LT)				
Degree =	104° 10′ 26.92″				
Tangent =	60.8869				
Length =	91.9768				
Radius =	55.0000				
External =	27.0501				
Long Chord =	81.6277				
Mid. Ord. =	18.1323				
P.C. Station	11+61.62	N	1,120,408.8230	E	2,009,515.7071
P.T. Station	12+53.60	N	1,120,348.2495	E	2,009,570.4240
C.C.		N	1,120,403.2495	E	2,009,570.4240
Back = S	5° 48′ 57.91″ W				
Ahead = Due East					
Chord Bear = S	42° 05′ 31.04″ E				

Curve Data

Curve RAB_NORTH-4					
P.I. Station	13+14.49	N	1,120,348.2495	E	2,009,631.3109
Delta =	95° 48′ 57.91″ (LT)				
Degree =	104° 10′ 26.92″				
Tangent =	60.8869				
Length =	91.9768				
Radius =	55.0000				
External =	27.0501				
Long Chord =	81.6277				
Mid. Ord. =	18.1323				
P.C. Station	12+53.60	N	1,120,348.2495	E	2,009,570.4240
P.T. Station	13+45.58	N	1,120,408.8230	E	2,009,625.1409
C.C.		N	1,120,403.2495	E	2,009,570.4240
Back = Due East					
Ahead = N	5° 48′ 57.91″ W				
Chord Bear = N	42° 05′ 31.04″ E				

Ending chain RAB_NORTH description

B/L ROUNDABOUT NORTH SUPERELEVATION TABLE

CURVE	D.S.	RADIUS (FT)	eMAX	e	PC-LG	PT-LG
RAB_NORTH-1	20 MPH	55.00	N/A	N/A	N/A	N/A
RAB_NORTH-2	20 MPH	55.00	N/A	N/A	N/A	N/A
RAB_NORTH-3	20 MPH	55.00	N/A	N/A	N/A	N/A
RAB_NORTH-4	20 MPH	55.00	N/A	N/A	N/A	N/A

℄ ROUNDABOUT SOUTH

Beginning chain RAB_SOUTH description

Curve Data

Curve RAB_SOUTH-1					
P.I. Station	10+97.09	N	1,119,709.0287	E	2,009,464.5560
Delta =	120° 56′ 14.14″ (RT)				
Degree =	104° 10′ 26.92″				
Tangent =	97.0881				
Length =	116.0914				
Radius =	55.0000				
External =	56.5845				
Long Chord =	95.7095				
Mid. Ord. =	27.8905				
P.C. Station	10+00.00	N	1,119,805.9223	E	2,009,458.4133
P.T. Station	11+16.09	N	1,119,753.5728	E	2,009,378.2894
C.C.		N	1,119,802.4425	E	2,009,403.5234
Back = S	3° 37′ 39.01″ E				
Ahead = N	62° 41′ 24.88″ W				
Chord Bear = S	56° 50′ 28.06″ W				

Curve Data

Curve RAB_SOUTH-2					
P.I. Station	12+25.91	N	1,119,803.9584	E	2,009,280.7098
Delta =	126° 47′ 41.59″ (RT)				
Degree =	104° 10′ 26.92″				
Tangent =	109.8202				
Length =	121.7144				
Radius =	55.0000				
External =	67.8230				
Long Chord =	98.3548				
Mid. Ord. =	30.3711				
P.C. Station	11+16.09	N	1,119,753.5728	E	2,009,378.2894
P.T. Station	12+37.81	N	1,119,851.9201	E	2,009,379.5034
C.C.		N	1,119,802.4425	E	2,009,403.5234
Back = N	62° 41′ 24.88″ W				
Ahead = N	64° 06′ 16.71″ E				
Chord Bear = N	0° 42′ 25.92″ E				

Curve Data

Curve RAB_SOUTH-3					
P.I. Station	13+19.76	N	1,119,887.7115	E	2,009,453.2281
Delta =	112° 16′ 04.27″ (RT)				
Degree =	104° 10′ 26.92″				
Tangent =	81.9534				
Length =	107.7694				
Radius =	55.0000				
External =	43.6983				
Long Chord =	91.3377				
Mid. Ord. =	24.3511				
P.C. Station	12+37.81	N	1,119,851.9201	E	2,009,379.5034
P.T. Station	13+45.58	N	1,119,805.9223	E	2,009,458.4133
C.C.		N	1,119,802.4425	E	2,009,403.5234
Back = N	64° 06′ 16.71″ E				
Ahead = S	3° 37′ 39.01″ E				
Chord Bear = S	59° 45′ 41.15″ E				

Ending chain RAB_SOUTH description

B/L ROUNDABOUT SOUTH SUPERELEVATION TABLE

CURVE	D.S.	RADIUS (FT)	eMAX	e	PC-LG	PT-LG
RAB_SOUTH-1	20 MPH	55.00	N/A	N/A	N/A	N/A
RAB_SOUTH-2	20 MPH	55.00	N/A	N/A	N/A	N/A
RAB_SOUTH-3	20 MPH	55.00	N/A	N/A	N/A	N/A

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02. Working\Roadway\DGN\Plan Sheets\05C-05E reference data sheet.dgn
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
SCALE : 300.000 ft. / in.

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KCI TECHNOLOGIES, INC. No. C00651 — SOUTH CAROLINA — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — BRIAN WAYNE HESS — 10/1/2025

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

REFERENCE DATA SHEET

SCALE 1" = NTS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	5D

℄ LINE A RELOCATED

Beginning chain LINEA_REL description

			Curve Data			
Curve LINEA_REL-1						
P.I. Station		14+44.52	N	1,120,566.2503	E	2,009,590.9435
Delta	=	22° 15′ 35.70″ (RT)				
Degree	=	8° 19′ 40.35″				
Tangent	=	135.3539				
Length	=	267.2941				
Radius	=	688.0000				
External	=	13.1880				
Long Chord	=	265.6162				
Mid. Ord.	=	12.9400				
P.C. Station		13+09.16	N	1,120,696.9886	E	2,009,625.9887
P.T. Station		15+76.46	N	1,120,458.5307	E	2,009,508.9853
C.C.			N	1,120,875.1221	E	2,008,961.4494
Back	= S	15° 00′ 20.49″ W				
Ahead	= S	37° 15′ 56.19″ W				
Chord Bear	= S	26° 08′ 08.34″ W				

			Curve Data			
Curve LINEA_REL-2						
P.I. Station		18+92.50	N	1,120,207.0094	E	2,009,317.6159
Delta	=	46° 28′ 42.24″ (RT)				
Degree	=	7° 47′ 05.11″				
Tangent	=	316.0462				
Length	=	597.0440				
Radius	=	736.0000				
External	=	64.9877				
Long Chord	=	580.8080				
Mid. Ord.	=	59.7149				
P.C. Station		15+76.46	N	1,120,458.5307	E	2,009,508.9853
P.T. Station		21+73.50	N	1,120,172.5695	E	2,009,003.4518
C.C.			N	1,120,904.1866	E	2,008,923.2492
Back	= S	37° 15′ 56.19″ W				
Ahead	= S	83° 44′ 38.43″ W				
Chord Bear	= S	60° 30′ 17.31″ W				

Ending chain LINEA_REL description

B/L LINE A RELOCATED SUPERELEVATION TABLE						
CURVE	D.S.	RADIUS (FT)	eMAX	e	PC-LG	PT-LG
LINEA_REL-1	40 MPH	688.00	0.08 FT/FT	0.072 FT/FT	0.58%	0.58%
LINEA_REL-2	40 MPH	736.00	0.08 FT/FT	0.070 FT/FT	0.58%	0.58%

℄ LINE B RELOCATED

Beginning chain LINEB_REL description

Point 10000 N 1,120,176.1975 E 2,009,868.2166 Sta 16+50.00

Course from 10000 to PC LINEB_REL_11 N 45° 56′ 53.96″ W Dist 31.4060

			Curve Data			
Curve LINEB_REL-1						
P.I. Station		17+39.27	N	1,120,238.2678	E	2,009,804.0568
Delta	=	2° 12′ 35.93″ (LT)				
Degree	=	1° 54′ 35.49″				
Tangent	=	57.8643				
Length	=	115.7143				
Radius	=	3,000.0000				
External	=	0.5580				
Long Chord	=	115.7071				
Mid. Ord.	=	0.5579				
P.C. Station		16+81.41	N	1,120,198.0343	E	2,009,845.6447
P.T. Station		17+97.12	N	1,120,276.8676	E	2,009,760.9484
C.C.			N	1,118,041.8955	E	2,007,759.7239
Back	= N	45° 56′ 53.96″ W				
Ahead	= N	48° 09′ 29.88″ W				
Chord Bear	= N	47° 03′ 11.92″ W				

Course from PT LINEB_REL-1 to PC LINEB_REL-2 N 48° 09′ 29.88″ W Dist 136.2804

			Curve Data			
Curve LINEB_REL-2						
P.I. Station		19+66.50	N	1,120,389.8562	E	2,009,634.7626
Delta	=	26° 36′ 11.68″ (RT)				
Degree	=	40° 55′ 32.00″				
Tangent	=	33.0988				
Length	=	65.0040				
Radius	=	140.0000				
External	=	3.8594				
Long Chord	=	64.4216				
Mid. Ord.	=	3.7559				
P.C. Station		19+33.40	N	1,120,367.7768	E	2,009,659.4208
P.T. Station		19+98.40	N	1,120,420.6402	E	2,009,622.6022
C.C.			N	1,120,472.0755	E	2,009,752.8113
Back	= N	48° 09′ 29.88″ W				
Ahead	= N	21° 33′ 18.21″ W				
Chord Bear	= N	34° 51′ 24.05″ W				

Ending chain LINEB_REL description

B/L LINE B RELOCATED SUPERELEVATION TABLE						
CURVE	D.S.	RADIUS (FT)	eMAX	e	PC-LG	PT-LG
LINEB_REL-1	40 MPH	3000.00	0.08 FT/FT	0.026 FT/FT	0.58%	0.58%
LINEB_REL-2	25 MPH	140.00	N/A	N/A	0.70%	0.70%

LINE B EXISTING ℄

Beginning chain LINE_B description

Point 6000 N 1,119,724.2480 E 2,010,335.3800 Sta 10+00.00

Course from 6000 to PC LINE_B-1 N 45° 56′ 53.96″ W Dist 654.1802

			Curve Data			
Curve LINE_B-1						
P.I. Station		17+44.19	N	1,120,241.6852	E	2,009,800.5243
Delta	=	23° 29′ 32.69″ (LT)				
Degree	=	13° 14′ 11.58″				
Tangent	=	90.0052				
Length	=	177.4814				
Radius	=	432.8604				
External	=	9.2584				
Long Chord	=	176.2408				
Mid. Ord.	=	9.0646				
P.C. Station		16+54.18	N	1,120,179.1040	E	2,009,865.2122
P.T. Station		18+31.66	N	1,120,273.2929	E	2,009,716.2516
C.C.			N	1,119,868.0016	E	2,009,564.2414
Back	= N	45° 56′ 53.96″ W				
Ahead	= N	69° 26′ 26.65″ W				
Chord Bear	= N	57° 41′ 40.30″ W				

Course from PT LINE_B-1 to 6001 N 69° 26′ 26.65″ W Dist 139.3637

Point 6001 N 1,120,322.2341 E 2,009,585.7641 Sta 19+71.03

Ending chain LINE_B description

℄ LINE C RELOCATED

Beginning chain LINEC_REL description

			Curve Data			
Curve LINEC_REL-1						
P.I. Station		10+82.28	N	1,119,768.6250	E	2,009,479.8044
Delta	=	23° 37′ 39.43″ (RT)				
Degree	=	19° 05′ 54.94″				
Tangent	=	62.7487				
Length	=	123.7139				
Radius	=	300.0000				
External	=	6.4921				
Long Chord	=	122.8392				
Mid. Ord.	=	6.3546				
P.C. Station		10+19.53	N	1,119,749.9380	E	2,009,419.9028
P.T. Station		11+43.25	N	1,119,761.7375	E	2,009,542.1740
C.C.			N	1,119,463.5502	E	2,009,509.2450
Back	= N	72° 40′ 26.61″ E				
Ahead	= S	83° 41′ 53.96″ E				
Chord Bear	= N	84° 29′ 16.33″ E				

Course from PT LINEC_REL-1 to PC LINEC_REL-2 S 83° 41′ 53.96″ E Dist 46.7565

			Curve Data			
Curve LINEC_REL-2						
P.I. Station		12+02.46	N	1,119,755.3315	E	2,009,601.0368
Delta	=	2° 54′ 32.28″ (LT)				
Degree	=	11° 40′ 52.47″				
Tangent	=	12.4541				
Length	=	24.9029				
Radius	=	490.4939				
External	=	0.1581				
Long Chord	=	24.9002				
Mid. Ord.	=	0.1580				
P.C. Station		11+90.00	N	1,119,756.6054	E	2,009,588.6480
P.T. Station		12+14.91	N	1,119,754.6880	E	2,009,613.4743
C.C.			N	1,120,244.5267	E	2,009,638.8183
Back	= S	84° 07′ 45.20″ E				
Ahead	= S	87° 02′ 17.49″ E				
Chord Bear	= S	85° 35′ 01.34″ E				

Course from PT LINEC_REL-2 to PC LINEC_REL-3 S 87° 02′ 17.49″ E Dist 150.4281

			Curve Data			
Curve LINEC_REL-3						
P.I. Station		14+08.20	N	1,119,744.7005	E	2,009,806.5088
Delta	=	1° 42′ 16.47″ (RT)				
Degree	=	1° 59′ 18.49″				
Tangent	=	42.8646				
Length	=	85.7229				
Radius	=	2,881.3992				
External	=	0.3188				
Long Chord	=	85.7197				
Mid. Ord.	=	0.3188				
P.C. Station		13+65.33	N	1,119,746.9153	E	2,009,763.7014
P.T. Station		14+51.06	N	1,119,741.2133	E	2,009,849.2313
C.C.			N	1,116,869.3651	E	2,009,614.8187
Back	= S	87° 02′ 17.49″ E				
Ahead	= S	85° 20′ 01.02″ E				
Chord Bear	= S	86° 11′ 09.25″ E				

Ending chain LINEC_REL description

B/L LINE C RELOCATED SUPERELEVATION TABLE						
CURVE	D.S.	RADIUS (FT)	eMAX	e	PC-LG	PT-LG
LINEC_REL-1	25 MPH	300.00	N/A	N/A	0.70%	0.70%
LINEC_REL-2	25 MPH	490.49	0.04 FT/FT (METHOD 2)	NC	0.70%	0.70%
LINEC_REL-3	MATCH EXIST.	2881.40	MATCH EXIST.	MATCH EXIST.	MATCH EXIST.	MATCH EXIST.

℄ LINE D RELOCATED

Beginning chain LINED_REL description

Point 1500 N 1,120,089.8556 E 2,008,367.5168 Sta 126+00.00

Course from 1500 to PC LINED_REL1 S 83° 51′ 53.13″ E Dist 513.6251

			Curve Data			
Curve LINED_REL-1						
P.I. Station		132+29.17	N	1,120,022.6131	E	2,008,993.0792
Delta	=	21° 16′ 49.54″ (RT)				
Degree	=	9° 18′ 58.99″				
Tangent	=	115.5409				
Length	=	228.4193				
Radius	=	615.0000				
External	=	10.7593				
Long Chord	=	227.1087				
Mid. Ord.	=	10.5743				
P.C. Station		131+13.63	N	1,120,034.9616	E	2,008,878.2001
P.T. Station		133+42.04	N	1,119,969.4131	E	2,009,095.6437
C.C.			N	1,119,423.4841	E	2,008,812.4715
Back	= S	83° 51′ 53.13″ E				
Ahead	= S	62° 35′ 03.60″ E				
Chord Bear	= S	73° 13′ 28.36″ E				

Course from PT LINED_REL-1 to PC LINED_REL-2 S 62° 35′ 03.60″ E Dist 232.7096

			Curve Data			
Curve LINED_REL-2						
P.I. Station		136+20.79	N	1,119,841.0657	E	2,009,343.0853
Delta	=	55° 14′ 01.55″ (RT)				
Degree	=	65° 06′ 31.83″				
Tangent	=	46.0383				
Length	=	84.8330				
Radius	=	88.0000				
External	=	11.3153				
Long Chord	=	81.5861				
Mid. Ord.	=	10.0261				
P.C. Station		135+74.75	N	1,119,862.2637	E	2,009,302.2176
P.T. Station		136+59.59	N	1,119,795.4058	E	2,009,348.9754
C.C.			N	1,119,784.1470	E	2,009,261.6986
Back	= S	62° 35′ 03.60″ E				
Ahead	= S	7° 21′ 02.05″ E				
Chord Bear	= S	34° 58′ 02.82″ E				

Ending chain LINED_REL description

B/L LINE D RELOCATED SUPERELEVATION TABLE						
CURVE	D.S.	RADIUS (FT)	eMAX	e	PC-LG	PT-LG
LINED_REL-1	40 MPH	615.00	0.06 FT/FT	0.058 FT/FT	0.58%	0.58%
LINED_REL-2	25 MPH	88.00	NA	NA	0.70%	0.70%

℄ LINE E RELOCATED

Beginning chain LINEE_REL description

Point 40000 N 1,120,450.5951 E 2,009,542.4348 Sta 15+56.35

Course from 40000 to PC LINEE_REL-1 S 59° 24′ 35.04″ W Dist 24.8038

			Curve Data			
Curve LINEE_REL1						
P.I. Station		16+17.33	N	1,120,419.5592	E	2,009,489.9356
Delta	=	6° 50′ 42.69″ (LT)				
Degree	=	9° 28′ 13.36″				
Tangent	=	36.1831				
Length	=	72.2800				
Radius	=	605.0000				
External	=	1.0810				
Long Chord	=	72.2371				
Mid. Ord.	=	1.0791				
P.C. Station		15+81.15	N	1,120,437.9726	E	2,009,521.0830
P.T. Station		16+53.43	N	1,120,397.5647	E	2,009,461.2048
C.C.			N	1,119,917.1713	E	2,009,828.9646
Back	= S	59° 24′ 35.04″ W				
Ahead	= S	52° 33′ 52.35″ W				
Chord Bear	= S	55° 59′ 13.70″ W				

			Curve Data			
Curve LINEE_REL-2						
P.I. Station		16+71.74	N	1,120,386.4321	E	2,009,446.6627
Delta	=	6° 27′ 01.95″ (LT)				
Degree	=	17° 37′ 46.09″				
Tangent	=	18.3141				
Length	=	36.5895				
Radius	=	325.0000				
External	=	0.5156				
Long Chord	=	36.5702				
Mid. Ord.	=	0.5148				
P.C. Station		16+53.43	N	1,120,397.5647	E	2,009,461.2048
P.T. Station		16+90.02	N	1,120,373.7363	E	2,009,433.4634
C.C.			N	1,120,139.5021	E	2,009,658.7617
Back	= S	52° 33′ 52.35″ W				
Ahead	= S	46° 06′ 50.40″ W				
Chord Bear	= S	49° 20′ 21.38″ W				

Ending chain LINEE_REL description

B/L LINE E RELOCATED SUPERELEVATION TABLE						
CURVE	D.S.	RADIUS (FT)	eMAX	e	PC-LG	PT-LG
LINEE_REL-1	20 MPH	605.00	N/A	N/A	0.70%	0.70%
LINEE_REL-2	25 MPH	325.00	N/A	N/A	0.70%	0.70%

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SOUTH CAROLINA — KCI TECHNOLOGIES, INC. No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER — Brian Wayne Reese — Number 28380 — 10/1/2025

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

REFERENCE DATA SHEET

SCALE 1" = NTS

SCALE : 300.000 ft. / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\05C-05E reference data sheet.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	5E

℄ LINE A

Beginning chain LINE_A description

Point 1940 N 1,121,002.7825 E 2,009,679.2679 Sta 10+00.00

Course from 1940 to PC LINE_A-1 S 12° 28′ 18.94″ W Dist 264.8509

Curve Data

Curve LINE_A-1
P.I. Station = 18+47.38 N 1,120,175.3955 E 2,009,496.2658
Delta = 78° 06′ 17.72″ (RT)
Degree = 7° 58′ 46.78″
Tangent = 582.5327
Length = 978.8000
Radius = 718.0227
External = 206.5858
Long Chord = 904.7542
Mid. Ord. = 160.4282
P.C. Station = 12+64.85 N 1,120,744.1816 E 2,009,622.0703
P.T. Station = 22+43.65 N 1,120,181.2603 E 2,008,913.7626
C.C. N 1,120,899.2467 E 2,008,920.9915
Back = S 12° 28′ 18.94″ W
Ahead = N 89° 25′ 23.34″ W
Chord Bear = S 51° 31′ 27.80″ W

Ending chain LINE_A description

℄ COUNTY ROAD

Beginning chain COUNTY_RD description

Point 5000 N 1,120,052.5107 E 2,008,445.1863 Sta 50+00.00

Course from 5000 to PC COUNTY_RD1 S 83° 51′ 53.13″ E Dist 141.4474

Curve Data

Curve COUNTY_RD-1
P.I. Station = 51+53.61 N 1,120,036.0936 E 2,008,597.9159
Delta = 12° 43′ 59.86″ (RT)
Degree = 52° 33′ 53.77″
Tangent = 12.1621
Length = 24.2239
Radius = 109.0000
External = 0.6764
Long Chord = 24.1741
Mid. Ord. = 0.6722
P.C. Station = 51+41.45 N 1,120,037.3934 E 2,008,585.8235
P.T. Station = 51+65.67 N 1,120,032.1604 E 2,008,609.4244
C.C. N 1,119,929.0178 E 2,008,574.1741
Back = S 83° 51′ 53.13″ E
Ahead = S 71° 07′ 53.27″ E
Chord Bear = S 77° 29′ 53.20″ E

Curve Data

Curve COUNTY_RD-2
P.I. Station = 52+24.77 N 1,120,013.0475 E 2,008,665.3488
Delta = 1° 03′ 24.01″ (RT)
Degree = 0° 53′ 38.36″
Tangent = 59.1002
Length = 118.1971
Radius = 6,409.0000
External = 0.2725
Long Chord = 118.1955
Mid. Ord. = 0.2725
P.C. Station = 51+65.67 N 1,120,032.1604 E 2,008,609.4244
P.T. Station = 52+83.87 N 1,119,992.9066 E 2,008,720.9112
C.C. N 1,113,967.5602 E 2,006,536.7679
Back = S 71° 07′ 53.27″ E
Ahead = S 70° 04′ 29.26″ E
Chord Bear = S 70° 36′ 11.27″ E

Curve Data

Curve COUNTY_RD-3
P.I. Station = 53+08.09 N 1,119,984.6504 E 2,008,743.6873
Delta = 25° 03′ 42.04″ (LT)
Degree = 52° 33′ 53.77″
Tangent = 24.2263
Length = 47.6776
Radius = 109.0000
External = 2.6598
Long Chord = 47.2984
Mid. Ord. = 2.5964
P.C. Station = 52+83.87 N 1,119,992.9066 E 2,008,720.9112
P.T. Station = 53+31.55 N 1,119,986.8194 E 2,008,767.8162
C.C. N 1,120,095.3817 E 2,008,758.0577
Back = S 70° 04′ 29.26″ E
Ahead = N 84° 51′ 48.70″ E
Chord Bear = S 82° 36′ 20.28″ E

Curve Data

Curve COUNTY_RD-4
P.I. Station = 53+62.75 N 1,119,989.6132 E 2,008,798.8972
Delta = 31° 57′ 08.77″ (RT)
Degree = 52° 33′ 53.77″
Tangent = 31.2063
Length = 60.7866
Radius = 109.0000
External = 4.3792
Long Chord = 60.0020
Mid. Ord. = 4.2100
P.C. Station = 53+31.55 N 1,119,986.8194 E 2,008,767.8162
P.T. Station = 53+92.33 N 1,119,975.5353 E 2,008,826.7476
C.C. N 1,119,878.2571 E 2,008,777.5748
Back = N 84° 51′ 48.70″ E
Ahead = S 63° 11′ 02.54″ E
Chord Bear = S 79° 09′ 36.92″ E

Ending chain COUNTY_RD description

B/L COUNTY ROAD SUPERELEVATION TABLE

CURVE	D.S.	RADIUS (FT)	eMAX	e	PC-LG	PT-LG
COUNTY_RD-1	20 MPH	109.00	0.04 FT/FT (METHOD 2)	NC	0.74%	0.74%
COUNTY_RD-2	20 MPH	6409.00	0.04 FT/FT (METHOD 2)	NC	0.74%	0.74%
COUNTY_RD-3	20 MPH	109.00	0.04 FT/FT (METHOD 2)	NC	0.74%	0.74%
COUNTY_RD-4	20 MPH	109.00	0.04 FT/FT (METHOD 2)	NC	0.74%	0.74%
COUNTY_RD-5	20 MPH	109.00	0.04 FT/FT (METHOD 2)	NC	0.74%	0.74%

℄ LINE C

Beginning chain LINE_C description

Point 50 N 1,119,808.1599 E 2,009,406.5246 Sta 10+00.00

Course from 50 to PC LINE_C-1 S 69° 07′ 40.26″ E Dist 61.5796

Curve Data

Curve LINE_C-1
P.I. Station = 11+38.87 N 1,119,758.6818 E 2,009,536.2843
Delta = 17° 54′ 37.23″ (LT)
Degree = 11° 40′ 52.47″
Tangent = 77.2932
Length = 153.3256
Radius = 490.4939
External = 6.0527
Long Chord = 152.7021
Mid. Ord. = 5.9789
P.C. Station = 10+61.58 N 1,119,786.2201 E 2,009,464.0632
P.T. Station = 12+14.91 N 1,119,754.6880 E 2,009,613.4743
C.C. N 1,120,244.5267 E 2,009,638.8183
Back = S 69° 07′ 40.26″ E
Ahead = S 87° 02′ 17.49″ E
Chord Bear = S 78° 04′ 58.87″ E

Course from PT LINE_C-1 to PC LINE_C-2 S 87° 02′ 17.49″ E Dist 150.4281

Curve Data

Curve LINE_C-2
P.I. Station = 14+08.20 N 1,119,744.7005 E 2,009,806.5088
Delta = 1° 42′ 16.47″ (RT)
Degree = 1° 59′ 18.49″
Tangent = 42.8646
Length = 85.7229
Radius = 2,881.3992
External = 0.3188
Long Chord = 85.7197
Mid. Ord. = 0.3188
P.C. Station = 13+65.33 N 1,119,746.9153 E 2,009,763.7014
P.T. Station = 14+51.06 N 1,119,741.2133 E 2,009,849.2313
C.C. N 1,116,869.3651 E 2,009,614.8187
Back = S 87° 02′ 17.49″ E
Ahead = S 85° 20′ 01.02″ E
Chord Bear = S 86° 11′ 09.25″ E

Ending chain LINE_C description

℄ US-21

Beginning chain US_21 description

Point 7000 N 1,120,124.8026 E 2,007,965.6722 Sta 121+97.82

Course from 7000 to 7001 S 89° 25′ 23.34″ E Dist 180.5218

Point 7001 N 1,120,122.9852 E 2,008,146.1849 Sta 123+78.34

Course from 7001 to PC US_21-1 S 89° 25′ 23.34″ E Dist 915.4539

Curve Data

Curve US_21-1
P.I. Station = 135+23.15 N 1,120,111.4595 E 2,009,290.9322
Delta = 13° 41′ 39.08″ (RT)
Degree = 2° 59′ 58.95″
Tangent = 229.3515
Length = 456.5173
Radius = 1,910.0447
External = 13.7206
Long Chord = 455.4315
Mid. Ord. = 13.6227
P.C. Station = 132+93.80 N 1,120,113.7686 E 2,009,061.5924
P.T. Station = 137+50.31 N 1,120,054.9223 E 2,009,513.2061
C.C. N 1,118,203.8207 E 2,009,042.3625
Back = S 89° 25′ 23.34″ E
Ahead = S 75° 43′ 44.25″ E
Chord Bear = S 82° 34′ 33.80″ E

Curve Data

Curve US_21-2
P.I. Station = 141+54.69 N 1,119,955.2405 E 2,009,905.1007
Delta = 23° 54′ 25.35″ (RT)
Degree = 2° 59′ 58.95″
Tangent = 404.3734
Length = 796.9788
Radius = 1,910.0447
External = 42.3355
Long Chord = 791.2098
Mid. Ord. = 41.4175
P.C. Station = 137+50.31 N 1,120,054.9223 E 2,009,513.2061
P.T. Station = 145+47.29 N 1,119,705.2942 E 2,010,222.9759
C.C. N 1,118,203.8207 E 2,009,042.3625
Back = S 75° 43′ 44.25″ E
Ahead = S 51° 49′ 18.90″ E
Chord Bear = S 63° 46′ 31.58″ E

Ending chain US_21 description

℄ S-50 (SPRINGDALE ROAD)

Beginning chain RD_50 description

Point 100 N 1,119,174.8824 E 2,009,027.4926 Sta 126+00.00

Course from 100 to 101 N 31° 13′ 47.99″ E Dist 484.5718

Point 101 N 1,119,589.2364 E 2,009,278.7309 Sta 130+84.57

Course from 101 to PC RD_50-1 N 31° 13′ 47.99″ E Dist 126.4000

Curve Data

Curve RD_50-1
P.I. Station = 132+74.57 N 1,119,751.7035 E 2,009,377.2407
Delta = 3° 48′ 51.59″ (LT)
Degree = 2° 59′ 59.37″
Tangent = 63.5993
Length = 127.1517
Radius = 1,909.9701
External = 1.0586
Long Chord = 127.1282
Mid. Ord. = 1.0580
P.C. Station = 132+10.97 N 1,119,697.3201 E 2,009,344.2661
P.T. Station = 133+38.12 N 1,119,808.1599 E 2,009,406.5246
C.C. N 1,120,687.5914 E 2,007,711.0642
Back = N 31° 13′ 47.99″ E
Ahead = N 27° 24′ 56.40″ E
Chord Bear = N 29° 19′ 22.20″ E

Curve Data

Curve RD_50-2
P.I. Station = 134+72.88 N 1,119,927.7778 E 2,009,468.5701
Delta = 8° 04′ 16.59″ (LT)
Degree = 2° 59′ 59.37″
Tangent = 134.7519
Length = 269.0581
Radius = 1,909.9700
External = 4.7476
Long Chord = 268.8357
Mid. Ord. = 4.7358
P.C. Station = 133+38.12 N 1,119,808.1599 E 2,009,406.5246
P.T. Station = 136+07.18 N 1,120,054.9223 E 2,009,513.2061
C.C. N 1,120,687.5914 E 2,007,711.0642
Back = N 27° 24′ 56.40″ E
Ahead = N 19° 20′ 39.82″ E
Chord Bear = N 23° 22′ 48.11″ E

Curve Data

Curve RD_50-3
P.I. Station = 137+46.04 N 1,120,185.9407 E 2,009,559.2020
Delta = 8° 18′ 58.84″ (LT)
Degree = 2° 59′ 59.37″
Tangent = 138.8576
Length = 277.2275
Radius = 1,909.9700
External = 5.0409
Long Chord = 276.9842
Mid. Ord. = 5.0277
P.C. Station = 136+07.18 N 1,120,054.9223 E 2,009,513.2061
P.T. Station = 138+84.41 N 1,120,322.2341 E 2,009,585.7641
C.C. N 1,120,687.5914 E 2,007,711.0642
Back = N 19° 20′ 39.82″ E
Ahead = N 11° 01′ 40.98″ E
Chord Bear = N 15° 11′ 10.40″ E

Curve Data

Curve RD_50-4
P.I. Station = 139+49.96 N 1,120,386.5762 E 2,009,598.3036
Delta = 3° 55′ 52.99″ (LT)
Degree = 2° 59′ 59.37″
Tangent = 65.5526
Length = 131.0538
Radius = 1,909.9701
External = 1.1246
Long Chord = 131.0281
Mid. Ord. = 1.1239
P.C. Station = 138+84.41 N 1,120,322.2341 E 2,009,585.7641
P.T. Station = 140+15.46 N 1,120,451.6266 E 2,009,606.4022
C.C. N 1,120,687.5914 E 2,007,711.0642
Back = N 11° 01′ 40.98″ E
Ahead = N 7° 05′ 47.99″ E
Chord Bear = N 9° 03′ 44.48″ E

Course from PT RD_50-4 to PC RD_50-5 N 7° 05′ 47.99″ E Dist 210.5000

Curve Data

Curve RD_50-5
P.I. Station = 144+73.47 N 1,120,906.1234 E 2,009,662.9859
Delta = 7° 42′ 17.88″ (RT)
Degree = 1° 33′ 31.95″
Tangent = 247.5055
Length = 494.2647
Radius = 3,675.4590
External = 8.3241
Long Chord = 493.8924
Mid. Ord. = 8.3053
P.C. Station = 142+25.96 N 1,120,660.5140 E 2,009,632.4082
P.T. Station = 147+20.23 N 1,121,145.4157 E 2,009,726.2169
C.C. N 1,120,206.4342 E 2,013,279.7099
Back = N 7° 05′ 47.99″ E
Ahead = N 14° 48′ 05.87″ E
Chord Bear = N 10° 56′ 56.93″ E

Course from PT RD_50-5 to 102 N 15° 43′ 55.81″ E Dist 179.7040

Point 102 N 1,121,318.3879 E 2,009,774.9420 Sta 148+99.93

Ending chain RD_50 description

℄ S-143 (CATAWBA CHURCH ROAD)

Beginning chain RD_143 description

Curve Data

Curve RD_143-1
P.I. Station = 11+74.20 N 1,120,109.8479 E 2,008,457.7390
Delta = 21° 22′ 16.76″ (RT)
Degree = 6° 12′ 22.53″
Tangent = 174.2000
Length = 344.3512
Radius = 923.1938
External = 16.2914
Long Chord = 342.3585
Mid. Ord. = 16.0089
P.C. Station = 10+00.00 N 1,120,111.6017 E 2,008,283.5478
P.T. Station = 13+44.35 N 1,120,044.7375 E 2,008,619.3134
C.C. N 1,119,188.4547 E 2,008,274.2533
Back = S 89° 25′ 23.34″ E
Ahead = S 68° 03′ 06.58″ E
Chord Bear = S 78° 44′ 14.96″ E

Course from PT RD_143-1 to PC RD_143-2 S 68° 03′ 06.58″ E Dist 100.4133

Curve Data

Curve RD_143-2
P.I. Station = 15+34.80 N 1,119,973.5530 E 2,008,795.9610
Delta = 4° 16′ 57.88″ (RT)
Degree = 2° 22′ 45.88″
Tangent = 90.0378
Length = 179.9918
Radius = 2,407.9812
External = 1.6827
Long Chord = 179.9499
Mid. Ord. = 1.6816
P.C. Station = 14+44.76 N 1,120,007.2063 E 2,008,712.4489
P.T. Station = 16+24.76 N 1,119,933.7572 E 2,008,876.7268
C.C. N 1,117,773.7500 E 2,007,812.4232
Back = S 68° 03′ 06.58″ E
Ahead = S 63° 46′ 08.69″ E
Chord Bear = S 65° 54′ 37.64″ E

Curve Data

Curve RD_143-3
P.I. Station = 17+20.63 N 1,119,891.3832 E 2,008,962.7250
Delta = 16° 33′ 32.83″ (RT)
Degree = 8° 41′ 48.34″
Tangent = 95.8710
Length = 190.4056
Radius = 658.8174
External = 6.9390
Long Chord = 189.7436
Mid. Ord. = 6.8667
P.C. Station = 16+24.76 N 1,119,933.7572 E 2,008,876.7268
P.T. Station = 18+15.16 N 1,119,826.2567 E 2,009,033.0798
C.C. N 1,119,342.7848 E 2,008,585.5361
Back = S 63° 46′ 08.69″ E
Ahead = S 47° 12′ 35.86″ E
Chord Bear = S 55° 29′ 22.28″ E

Curve Data

Curve RD_143-4
P.I. Station = 18+92.87 N 1,119,773.4703 E 2,009,090.1038
Delta = 1° 32′ 05.69″ (RT)
Degree = 0° 59′ 15.74″
Tangent = 77.7055
Length = 155.4016
Radius = 5,800.8898
External = 0.5204
Long Chord = 155.3970
Mid. Ord. = 0.5204
P.C. Station = 18+15.16 N 1,119,826.2567 E 2,009,033.0798
P.T. Station = 19+70.56 N 1,119,719.1754 E 2,009,145.6934
C.C. N 1,115,569.2854 E 2,005,092.4557
Back = S 47° 12′ 35.86″ E
Ahead = S 45° 40′ 30.18″ E
Chord Bear = S 46° 26′ 33.02″ E

Course from PT RD_143-4 to 31 S 45° 40′ 30.18″ E Dist 185.9654

Point 31 N 1,119,589.2364 E 2,009,278.7309 Sta 21+56.53

Course from 31 to 32 S 45° 40′ 30.18″ E Dist 351.9963

Point 32 N 1,119,343.2871 E 2,009,530.5450 Sta 25+08.53

Ending chain RD_143 description

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — Brian Wayne Metz — No. 34580 — 10/1/2025

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

REFERENCE DATA SHEET

SCALE : 300.000 ft. / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378612. Working\Roadway\DGN\Plan Sheets\05C-05E reference data sheet.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	5F

Ⓐ TIE EQUALITY
℄ TOP OF CURB 1 STA. = 10 + 58.16
℄ S–50 STA. 131 + 57.96, 14.78′ LT

Ⓑ TIE EQUALITY
℄ TOP OF CURB 1 STA. = 11 + 11.76
℄ S–50 STA. 132 + 11.30, 18.05′ LT

Ⓒ TIE EQUALITY
℄ TOP OF CURB 1 STA. = 11 + 83.53
℄ S–50 STA. 132 + 81.19, 37.81′ LT

Ⓓ TIE EQUALITY
℄ TOP OF CURB 1 STA. = 12 + 36.17
℄ LINE D REL. STA. 136 + 25.08, 1.53′ RT

℄ S-50 (SPRINGDALE RD)

℄ S-143 (CATAWBA CHURCH RD)

TIE EQUALITY
℄ TOP OF CURB 1 STA. = 10 + 00.00
℄ S–143 STA. 20 + 97.11, 23.03′ LT

PC = 10+00.00
S50REL_TOCI-1
S50REL_TOCI-2
PCC = 10+58.16
RELOC. POT = 132 + 10.97
PC = 132+10.97
RELOC. PC = 132 + 63.41
S50REL_TOCI-3
PCC = 11+11.76
PCC = 11+83.53
S50REL_TOCI-4
S50REL_TOCI-5
PCC = 12+36.17
PT = 12+84.48
RELOC. PC = 135 + 74.75
TIE EQUALITY
℄ TOP OF CURB 1 STA. = 12 + 84.48
℄ LINE D REL. STA. 135 + 74.14, 7.50′ RT
℄ LINE D REL.
S62° 33′ 10″ E
FOC
10
20

PC = 20+00.00
TIE EQUALITY
℄ TOP OF CURB 2 STA. = 20 + 00.00
℄ LINE D REL. STA. 135 + 80.79, 21.75′ LT
S50REL_TOC2-1
PRC = 20+53.16
S50REL_TOC2-2
PRC = 20+56.76
S50REL_TOC2-3
PRC = 20+77.29
RELOC. PCC = 12 + 37.81
S50REL_TOC2-4
PT = 21+66.05
PC = 21+91.03
S50REL_TOC2-5
PT = 22+13.39
℄ US-21
℄ S-50 (SPRINGDALE RD)
℄ S-50 REL.(SPRINGDALE RD)
TIE EQUALITY
℄ TOP OF CURB 2 STA. = 22 + 13.39
℄ S–50 STA. 134 + 98.19, 14.00′ LT
N 27° 54′ 26″ E
135

N 31° 13′ 48″ E

30
PC = 30+00.00
S50REL_TOC3-1
PCC = 30+35.77
S50REL_TOC3-2
PT = 30+90.88
PC = 31+54.01
RELOC. PCC = 11 + 16.09
S50REL_TOC3-3
PRC = 32+20.62
S50REL_TOC3-4
PRC = 32+22.27
RELOC. PC = 10 + 19.53
S50REL_TOC3-5
PCC = 32+83.58
S50REL_TOC3-6
℄ LINE C REL.
RELOC. PT = 11 + 43.25
PT = 33+44.28
POT = 33+91.03
TIE EQUALITY
℄ TOP OF CURB 3 STA. = 33 + 91.03
℄ LINE C REL. STA. 11 + 90.00, 7.50′ RT
S33° 41′ 31″ E
40

S69° 07′ 40″ E
10
S50REL_TOC4-4
RELOC. PC = 10 + 00.00
RELOC. PT = 13 + 45.58
PRC = 41+11.30
S50REL_TOC4-3
PC = 10+61.58
PRC = 40+87.96
S50REL_TOC4-2
PRC = 40+84.87
℄ LINE C
S50REL_TOC4-1
PC = 40+00.00
TIE EQUALITY
℄ TOP OF CURB 4 STA. = 20 + 00.00
℄ LINE C REL. STA. 11 + 43.72, 21.50′ LT
RELOC. PC = 11 + 90.00

N 15° 20′ 44″ E
RELOC. PRC = 134 + 94.25
TIE EQUALITY
℄ TOP OF CURB 4 STA. = 42 + 58.63
℄ S–50 STA. 135 + 00.54, 14.00′ RT
PT = 42+58.63
S50REL_TOC4-5
PT = 42+13.20
PC = 42+37.97
RELOC. PRC = 134 + 53.01

Ⓔ TIE EQUALITY
℄ TOP OF CURB 2 STA. = 20 + 53.16
℄ LINE D REL. STA. 136 + 22.48, 25.33′ LT

Ⓕ TIE EQUALITY
℄ TOP OF CURB 2 STA. = 20 + 56.76
℄ RAB SOUTH STA. 12 + 18.50, 3.50′ LT

Ⓖ TIE EQUALITY
℄ TOP OF CURB 2 STA. = 20 + 77.29
℄ RAB SOUTH STA. 12 + 37.81, 3.50′ LT

Ⓗ TIE EQUALITY
℄ TOP OF CURB 2 STA. = 21 + 66.05
℄ S–50 STA. 134 + 51.01, 16.50′ LT

Ⓘ TIE EQUALITY
℄ TOP OF CURB 2 STA. = 21 + 91.03
℄ S–50 STA. 134 + 75.84, 14.12′ LT

Ⓙ TIE EQUALITY
℄ TOP OF CURB 3 STA. = 30 + 35.77
℄ S–50 STA. 131 + 14.92, 21.03′ RT

Ⓚ TIE EQUALITY
℄ TOP OF CURB 3 STA. = 30 + 90.88
℄ S–50 STA. 131 + 69.34, 13.50′ RT

Ⓛ TIE EQUALITY
℄ TOP OF CURB 3 STA. = 31 + 54.01
℄ S–50 STA. 132 + 32.31, 13.62′ RT

Ⓜ TIE EQUALITY
℄ TOP OF CURB 3 STA. = 32 + 20.62
℄ RAB SOUTH STA. 10 + 74.86, 1.50′ LT

Ⓝ TIE EQUALITY
℄ TOP OF CURB 3 STA. = 32 + 22.27
℄ RAB SOUTH STA. 10 + 73.24, 1.50′ LT

Ⓞ TIE EQUALITY
℄ TOP OF CURB 3 STA. = 32 + 83.58
℄ LINE C REL. STA. 10 + 81.39, 4.50′ RT

Ⓟ TIE EQUALITY
℄ TOP OF CURB 3 STA. = 33 + 44.28
℄ LINE C REL. STA. 11 + 43.24, 7.50′ RT

Ⓠ TIE EQUALITY
℄ TOP OF CURB 4 STA. = 40 + 84.87
℄ LINE C REL. STA. 10 + 64.48, 21.38′ LT

Ⓡ TIE EQUALITY
℄ TOP OF CURB 4 STA. = 40 + 87.96
℄ RAB SOUTH STA. 10 + 21.95, 3.50′ LT

Ⓢ TIE EQUALITY
℄ TOP OF CURB 4 STA. = 41 + 11.30
℄ RAB SOUTH STA. 10 + 00.00, 3.50′ LT

Ⓣ TIE EQUALITY
℄ TOP OF CURB 4 STA. = 42 + 13.20
℄ S–50 STA. 134 + 55.25, 17.00′ RT

Ⓣ TIE EQUALITY
℄ TOP OF CURB 4 STA. = 42 + 37.97
℄ S–50 STA. 134 + 79.90, 13.93′ RT

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\05F TOC Profile.dgn

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/29/2025

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

0 20 40 60 80

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — BRIAN WAYNE NEES — Registered No. 34680 — 10/1/2025

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

TOP OF CURB PROFILE SHEET
TOP OF CURBS 1-4

SCALE 1" = 20'

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	5G

(A) TIE EQUALITY
℄ TOP OF CURB 5 STA. = 50 + 22.36
℄ S–50 STA. 137 + 40.11, 14.00′ LT

(B) TIE EQUALITY
℄ TOP OF CURB 5 STA. = 50 + 59.86
℄ S–50 STA. 137 + 79.34, 16.80′ LT

(C) TIE EQUALITY
℄ TOP OF CURB 5 STA. = 51 + 35.80
℄ S–50 STA. 138 + 57.92, 18.00′ LT

(D) TIE EQUALITY
℄ TOP OF CURB 5 STA. = 52 + 19.43
℄ RAB NORTH STA. 11 + 93.41, 1.50′ RT

(E) TIE EQUALITY
℄ TOP OF CURB 5 STA. = 52 + 47.70
℄ RAB NORTH STA. 11 + 65.88, 1.50′ RT

(F) TIE EQUALITY
℄ TOP OF CURB 5 STA. = 52 + 52.04
℄ LINE E REL. STA. 16 + 06.98, 21.50′ LT

(G) TIE EQUALITY
℄ TOP OF CURB 5 STA. = 53 + 05.65
℄ LINE E REL. STA. 16 + 62.86, 21.44′ LT

(H) TIE EQUALITY
℄ TOP OF CURB 5 STA. = 53 + 14.10
℄ LINE E REL. STA. 16 + 66.69, 27.44′ LT

TIE EQUALITY
℄ TOP OF CURB 6 STA. = 60 + 00.00
℄ TOP OF CURB 6 STA. = 63 + 95.26
℄ LINE E REL. STA. 16 + 32.80, 1.50′ RT

(I) TIE EQUALITY
℄ TOP OF CURB 6 STA. = 60 + 65.42
℄ RAB NORTH STA. 11 + 21.77, 2.64′ RT

(J) TIE EQUALITY
℄ TOP OF CURB 6 STA. = 60 + 83.74
℄ RAB NORTH STA. 11 + 03.53, 3.47′ RT

(K) TIE EQUALITY
℄ TOP OF CURB 6 STA. = 61 + 55.35
℄ S–50 STA. 140 + 74.88, 15.50′ LT

(L) TIE EQUALITY
℄ TOP OF CURB 6 STA. = 61 + 84.00
℄ S–50 STA. 141 + 03.53, 15.50′ LT

(M) TIE EQUALITY
℄ TOP OF CURB 6 STA. = 61 + 99.71
℄ S–50 STA. 141 + 13.53, 25.50′ LT

(N) TIE EQUALITY
℄ TOP OF CURB 6 STA. = 62 + 05.69
℄ LINE A REL. STA. 14 + 53.83, 9.95′ LT

(O) TIE EQUALITY
℄ TOP OF CURB 6 STA. = 62 + 19.77
℄ LINE A REL. STA. 14 + 63.56, 1.50′ LT

(P) TIE EQUALITY
℄ TOP OF CURB 6 STA. = 63 + 32.92
℄ LINE A REL. STA. 15 + 76.46, 1.50′ LT

(Q) TIE EQUALITY
℄ TOP OF CURB 6 STA. = 63 + 89.43
℄ LINE A REL. STA. 16 + 32.85, 1.50′ LT

(R) TIE EQUALITY
℄ TOP OF CURB 7 STA. = 70 + 20.66
℄ S–50 STA. 137 + 40.60, 14.00′ RT

(S) TIE EQUALITY
℄ TOP OF CURB 7 STA. = 70 + 58.16
℄ S–50 STA. 137 + 76.50, 15.49′ RT

(T) TIE EQUALITY
℄ TOP OF CURB 7 STA. = 71 + 05.98
℄ S–50 STA. 138 + 22.20, 15.48′ RT

(U) TIE EQUALITY
℄ TOP OF CURB 7 STA. = 71 + 23.08
℄ S–50 STA. 138 + 38.38, 17.37′ RT

(V) TIE EQUALITY
℄ TOP OF CURB 7 STA. = 72 + 25.03
℄ RAB NORTH STA. 13 + 09.82, 1.50′ RT

(W) TIE EQUALITY
℄ TOP OF CURB 7 STA. = 72 + 31.44
℄ RAB NORTH STA. 13 + 16.05, 1.50′ RT

(X) TIE EQUALITY
℄ TOP OF CURB 7 STA. = 72 + 35.67
℄ LINE B REL. STA. 19 + 63.39, 17.59′ LT

(Y) TIE EQUALITY
℄ TOP OF CURB 8 STA. = 80 + 32.80
℄ LINE B REL. STA. 19 + 67.38, 3.50′ RT

(Z) TIE EQUALITY
℄ TOP OF CURB 8 STA. = 80 + 62.96
℄ RAB NORTH STA. 10 + 12.20, 3.50′ RT

(AA) TIE EQUALITY
℄ TOP OF CURB 8 STA. = 80 + 62.96
℄ RAB NORTH STA. 10 + 14.29, 3.50′ RT

(BB) TIE EQUALITY
℄ TOP OF CURB 8 STA. = 81 + 39.02
℄ S–50 STA. 140 + 66.88, 21.60′ RT

(CC) TIE EQUALITY
℄ TOP OF CURB 8 STA. = 81 + 95.06
℄ S–50 STA. 141 + 22.67, 17.50′ RT

(DD) TIE EQUALITY
℄ TOP OF CURB 8 STA. = 82 + 18.32
℄ S–50 STA. 141 + 44.97, 17.50′ RT

TIE EQUALITY
℄ TOP OF CURB 5 STA. = 50 + 00.00
℄ S–50 STA. 137 + 17.57, 14.00′ LT

TIE EQUALITY
℄ TOP OF CURB 5 STA. = 53 + 80.31
℄ S–50 STA. 139 + 02.38, 34.89′ LT

TIE EQUALITY
℄ TOP OF CURB 7 STA. = 12 + 84.48
℄ LINE B REL. STA. 135 + 74.14, 7.50′ RT

TIE EQUALITY
℄ TOP OF CURB 8 STA. = 80 + 00.00
℄ LINE B REL. STA. 19 + 33.40, 7.50′ RT

TIE EQUALITY
℄ TOP OF CURB 5 STA. = 50 + 00.00
℄ S–50 STA. 137 + 17.57, 14.00′ LT

RELOC. PC = 137 + 39.72
RELOC. PRC = 138 + 41.36
RELOC. PC = 15 + 81.15
RELOC. PCC = 15 + 76.46
RELOC. PT = 140 + 57.69
RELOC. PC = 141 + 21.52
RELOC. PRC = 142 + 15.07
RELOC. PC = 13 + 09.16
RELOC. PT = 19 + 98.40
RELOC. PC = 19 + 33.40
RELOC. PC = 10 + 00.00
RELOC. PT = 13 + 45.58

℄ S-50 (SPRINGDALE RD)
℄ S-50 REL.(SPRINGDALE RD)
℄ LINE A
℄ LINE A REL.
℄ LINE E REL.
℄ ROUNDABOUT NORTH
℄ LINE B
℄ LINE B REL.

PC = 50+00.00
PT = 50+22.36
PC = 50+59.86
PCC = 51+35.80
POT = 53+80.31
PCC = 52+52.04
PRC = 52+47.70
PRC = 60+65.42
PC = 60+00.00
PT = 63+95.26
PCC = 53+05.65
PT = 53+14.10
PRC = 52+19.43
PCC = 63+32.92
PRC = 62+19.77
PC = 62+05.69
PT = 61+99.71
PCC = 60+83.74
PT = 61+55.35
PC = 61+84.00
PC = 70+00.00
PT = 70+20.66
PC = 70+58.16
PRC = 71+05.98
PRC = 71+23.08
PRC = 72+25.03
PRC = 72+31.44
PRC = 72+35.67
PT = 72+69.57
PT = 18+31.66
PRC = 80+65.18
PRC = 80+62.96
PC = 80+32.80
POT = 80+00.00
PT = 140+15.46
PRC = 81+39.02
PRC = 81+95.06
PT = 82+18.32
PC = 142+25.96

S50REL_TOC5-1
S50REL_TOC5-2
S50REL_TOC5-3
S50REL_TOC5-4
S50REL_TOC5-5
S50REL_TOC5-6
S50REL_TOC5-7
S50REL_TOC6-1
S50REL_TOC6-2
S50REL_TOC6-3
S50REL_TOC6-4
S50REL_TOC6-5
S50REL_TOC6-6
S50REL_TOC6-7
S50REL_TOC6-8
S50REL_TOC7-1
S50REL_TOC7-2
S50REL_TOC7-3
S50REL_TOC7-4
S50REL_TOC7-5
S50REL_TOC7-6
S50REL_TOC8-1
S50REL_TOC8-2
S50REL_TOC8-3
S50REL_TOC8-4
S50REL_TOC8-5

N 7^ 39′ 19″ E
N 14^ 24′ 31″ E
S 69^ 30′ 00″ E
N 69^ 26′ 27″ W
N 18^ 30′ 00″ W
N 48^ 09′ 40″ W
N 18^ 32′ 41″ E
N 71^ 27′ 19″ W

50
60
70
80
140
30
15

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0 20 40 60 80

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 21580 — 10/1/2025 — BRIAN WAYNE KEYS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

TOP OF CURB PROFILE SHEET
TOP OF CURBS 5-8

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/29/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\05G TOC Profile.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	5H

TOP OF CURB 1

Beginning chain S50REL_TOC1 description

Curve Data

Curve S50REL_TOC11					
P.I. Station	10+35.38	N	1,119,630.80	E	2,009,283.65
Delta =	82° 16′ 37.61″ (LT)				
Degree =	141° 28′ 15.82″				
Tangent =	35.38				
Length =	58.16				
Radius =	40.50				
External =	13.28				
Long Chord =	53.29				
Mid. Ord. =	10.00				
P.C. Station	10+00.00	N	1,119,647.23	E	2,009,252.32
P.T. Station	10+58.16	N	1,119,659.65	E	2,009,304.14
C.C.		N	1,119,683.10	E	2,009,271.12
Back = S	62° 20′ 33.32″ E				
Ahead = N	35° 22′ 49.07″ E				
Chord Bear = N	76° 31′ 07.88″ E				

Curve Data

Curve S50REL_TOC12					
P.I. Station	10+85.12	N	1,119,681.63	E	2,009,319.75
Delta =	15° 19′ 00.10″ (LT)				
Degree =	28° 34′ 35.22″				
Tangent =	26.96				
Length =	53.60				
Radius =	200.50				
External =	1.80				
Long Chord =	53.44				
Mid. Ord. =	1.79				
P.C. Station	10+58.16	N	1,119,659.65	E	2,009,304.14
P.T. Station	11+11.76	N	1,119,706.96	E	2,009,329.00
C.C.		N	1,119,775.74	E	2,009,140.67
Back = N	35° 22′ 49.07″ E				
Ahead = N	20° 03′ 48.97″ E				
Chord Bear = N	27° 43′ 19.02″ E				

Curve Data

Curve S50REL_TOC13					
P.I. Station	11+47.77	N	1,119,740.78	E	2,009,341.35
Delta =	11° 48′ 01.70″ (LT)				
Degree =	16° 26′ 26.46″				
Tangent =	36.02				
Length =	71.78				
Radius =	348.50				
External =	1.86				
Long Chord =	71.65				
Mid. Ord. =	1.85				
P.C. Station	11+11.76	N	1,119,706.96	E	2,009,329.00
P.T. Station	11+83.53	N	1,119,776.43	E	2,009,346.53
C.C.		N	1,119,826.51	E	2,009,001.65
Back = N	20° 03′ 48.97″ E				
Ahead = N	8° 15′ 47.27″ E				
Chord Bear = N	14° 09′ 48.12″ E				

Curve Data

Curve S50REL_TOC14					
P.I. Station	12+10.88	N	1,119,803.49	E	2,009,350.46
Delta =	38° 25′ 04.32″ (LT)				
Degree =	72° 59′ 17.72″				
Tangent =	27.35				
Length =	52.64				
Radius =	78.50				
External =	4.63				
Long Chord =	51.66				
Mid. Ord. =	4.37				
P.C. Station	11+83.53	N	1,119,776.43	E	2,009,346.53
P.T. Station	12+36.17	N	1,119,827.14	E	2,009,336.72
C.C.		N	1,119,787.71	E	2,009,268.84
Back = N	8° 15′ 47.27″ E				
Ahead = N	30° 09′ 17.05″ W				
Chord Bear = N	10° 56′ 44.89″ W				

Curve Data

Curve S50REL_TOC15					
P.I. Station	12+60.59	N	1,119,845.04	E	2,009,320.10
Delta =	20° 44′ 06.84″ (LT)				
Degree =	42° 55′ 05.47″				
Tangent =	24.42				
Length =	48.31				
Radius =	133.50				
External =	2.22				
Long Chord =	48.05				
Mid. Ord. =	2.18				
P.C. Station	12+36.17	N	1,119,827.14	E	2,009,336.72
P.T. Station	12+84.48	N	1,119,855.89	E	2,009,298.22
C.C.		N	1,119,736.29	E	2,009,238.90
Back = N	42° 53′ 09.61″ W				
Ahead = N	63° 37′ 16.44″ W				
Chord Bear = N	53° 15′ 13.02″ W				

Ending chain S50REL_TOC1 description

Beginning profile S50REL_TOC1 description:

		STATION	ELEV	GRADE	TOTAL L	BACK L	AHEAD L
VPI	1	10+00.00	664.0400				
VPI	2	10+10.00	664.2220	1.8200			
VPI	3	10+20.00	664.4190	1.9700			
VPC		10+20.90	664.4367	1.9715	K = 10.8	SSD = 1163.4	
VPI	4	10+25.90	664.5354		10.0178	5.0089	5.0089
VPT		10+30.91	664.5875	1.0400			
VPI	5	10+50.00	664.7860	1.0400			
VPI	6	10+60.00	664.8900	1.0400			
VPI	7	10+70.00	664.9850	0.9500			
VPI	8	10+80.00	665.0850	1.0000			
VPI	9	10+90.00	665.1900	1.0500			
VPI	10	11+00.00	665.3000	1.1000			
VPI	11	11+10.00	665.4150	1.1500			
VPI	12	11+20.00	665.5720	1.5700			
VPI	13	11+30.00	665.8010	2.2900			
VPI	14	11+40.00	666.0620	2.6100			
VPI	15	11+50.00	666.3570	2.9500			
VPI	16	11+58.29	666.6380	3.3896			
VPC		11+59.00	666.6621	3.3900	K = 17.5	SSD = 304.8	
VPI	17	11+94.00	667.8486		70.0000	35.0000	35.0000
High Point		12+18.33	667.6676				
VPT		12+29.00	667.6351	-0.6099			
VPI	18	12+40.00	667.5680	-0.6099			
VPI	19	12+50.00	667.5070	-0.6100			
VPI	20	12+60.00	667.3760	-1.3100			
VPI	21	12+70.00	667.1760	-2.0000			
VPI	22	12+80.00	666.9110	-2.6500			
VPI	23	12+84.48	666.7750	-3.0357			

Ending profile S50REL_TOC1 description

TOP OF CURB 2

Beginning chain S50REL_TOC2 description

Curve Data

Curve S50REL_TOC21					
P.I. Station	20+27.29	N	1,119,866.28	E	2,009,343.49
Delta =	31° 53′ 34.58″ (RT)				
Degree =	59° 59′ 44.09″				
Tangent =	27.29				
Length =	53.16				
Radius =	95.50				
External =	3.82				
Long Chord =	52.48				
Mid. Ord. =	3.67				
P.C. Station	20+00.00	N	1,119,877.89	E	2,009,318.79
P.T. Station	20+53.16	N	1,119,843.38	E	2,009,358.32
C.C.		N	1,119,791.46	E	2,009,278.17
Back = S	64° 49′ 42.23″ E				
Ahead = S	32° 56′ 07.65″ E				
Chord Bear = S	48° 52′ 54.94″ E				

Curve Data

Curve S50REL_TOC22					
P.I. Station	20+55.68	N	1,119,841.27	E	2,009,359.69
Delta =	103° 04′ 07.95″ (LT)				
Degree =	2864° 47′ 20.30″				
Tangent =	2.52				
Length =	3.60				
Radius =	2.00				
External =	1.22				
Long Chord =	3.13				
Mid. Ord. =	0.76				
P.C. Station	20+53.16	N	1,119,843.38	E	2,009,358.32
P.T. Station	20+56.76	N	1,119,843.08	E	2,009,361.44
C.C.		N	1,119,844.47	E	2,009,360.00
Back = S	32° 56′ 07.65″ E				
Ahead = N	43° 59′ 44.40″ E				
Chord Bear = S	84° 28′ 11.63″ E				

Curve Data

Curve S50REL_TOC23					
P.I. Station	20+67.13	N	1,119,850.54	E	2,009,368.64
Delta =	20° 06′ 32.32″ (RT)				
Degree =	97° 56′ 29.41″				
Tangent =	10.37				
Length =	20.53				
Radius =	58.50				
External =	0.91				
Long Chord =	20.43				
Mid. Ord. =	0.90				
P.C. Station	20+56.76	N	1,119,843.08	E	2,009,361.44
P.T. Station	20+77.29	N	1,119,855.07	E	2,009,377.97
C.C.		N	1,119,802.44	E	2,009,403.52
Back = N	43° 59′ 44.40″ E				
Ahead = N	64° 06′ 16.71″ E				
Chord Bear = N	54° 03′ 00.56″ E				

Curve Data

Curve S50REL_TOC24					
P.I. Station	21+23.21	N	1,119,875.12	E	2,009,419.29
Delta =	36° 11′ 56.32″ (LT)				
Degree =	40° 46′ 47.70″				
Tangent =	45.92				
Length =	88.77				
Radius =	140.50				
External =	7.31				
Long Chord =	87.30				
Mid. Ord. =	6.95				
P.C. Station	20+77.29	N	1,119,855.07	E	2,009,377.97
P.T. Station	21+66.05	N	1,119,915.71	E	2,009,440.78
C.C.		N	1,119,981.46	E	2,009,316.61
Back = N	64° 06′ 16.71″ E				
Ahead = N	27° 54′ 20.39″ E				
Chord Bear = N	46° 00′ 18.55″ E				

Course from PT S50REL_TOC24 to PC S50REL_TOC25 N 27° 54′ 20.40″ E Dist 24.98

Curve Data

Curve S50REL_TOC25					
P.I. Station	22+02.21	N	1,119,948.05	E	2,009,456.89
Delta =	0° 40′ 33.09″ (LT)				
Degree =	3° 01′ 19.12″				
Tangent =	11.18				
Length =	22.36				
Radius =	1,895.97				
External =	0.03				
Long Chord =	22.36				
Mid. Ord. =	0.03				
P.C. Station	21+91.03	N	1,119,937.78	E	2,009,452.47
P.T. Station	22+13.39	N	1,119,958.37	E	2,009,461.19
C.C.		N	1,120,687.59	E	2,007,711.06
Back = N	23° 17′ 44.95″ E				
Ahead = N	22° 37′ 11.86″ E				
Chord Bear = N	22° 57′ 28.40″ E				

Ending chain S50REL_TOC2 description

Beginning profile S50REL_TOC2 description:

		STATION	ELEV	GRADE	TOTAL L	BACK L	AHEAD L
VPI	1	20+00.00	667.9760				
VPI	2	20+10.00	668.2970	3.2100			
VPI	3	20+20.00	668.6000	3.0300			
VPI	4	20+30.00	668.8820	2.8200			
VPI	5	20+40.00	669.1420	2.6000			
VPI	6	20+50.00	669.3800	2.3800			
VPI	7	20+60.00	669.6510	2.7100			
VPI	8	20+70.00	669.9190	2.6800			
VPC		20+78.84	670.1559	2.6800	K = 8.3	SSD = 313.1	
VPI	9	20+93.84	670.5579		30.0000	15.0000	15.0000
High Point		21+01.05	670.4535				
VPT		21+08.84	670.4169	-0.9400			
VPI	10	21+10.00	670.4060	-0.9400			
VPC		21+10.00	670.4060	-0.9400	K = 9.3		
Low Point		21+18.79	670.3647				
VPI	11	21+20.00	670.3120		20.0000	10.0000	10.0000
VPT		21+30.00	670.4320	1.2000			
VPI	12	21+30.00	670.4320				
VPI	13	21+40.00	670.5900	1.5800			
VPI	14	21+50.00	670.7750	1.8500			
VPI	15	21+60.00	670.9760	2.0100			
VPI	16	21+70.00	671.1830	2.0700			
VPI	17	21+80.00	671.3970	2.1400			
VPI	18	21+90.00	671.6250	2.2800			
VPI	19	22+00.00	671.8500	2.2500			
VPI	20	22+10.00	672.0870	2.3700			
VPI	21	22+13.39	672.2190	3.8938			

Ending profile S50REL_TOC2 description

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SOUTH CAROLINA — KCI TECHNOLOGIES, INC. No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 21580 — 10/1/2025 — BRIAN WAYNE REES

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

TOP OF CURB PROFILE SHEET
TOP OF CURBS 1&2

SCALE 1" = NTS

SCALE : 300.000 ft. / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\05H-05M TOC Profile.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	51

TOP OF CURB 3

Beginning chain S5OREL_TOC3 description

Curve Data

Curve S5OREL_TOC31
P.I. Station 30+19.14 N 1,119,585.83 E 2,009,307.34
Delta = 50° 36′ 05.68″ (RT)
Degree = 141° 28′ 15.82″
Tangent = 19.14
Length = 35.77
Radius = 40.50
External = 4.30
Long Chord = 34.62
Mid. Ord. = 3.88
P.C. Station 30+00.00 N 1,119,570.18 E 2,009,318.35
P.T. Station 30+35.77 N 1,119,604.28 E 2,009,312.45
C.C. N 1,119,593.47 E 2,009,351.48
Back = N 35° 07′ 14.03″ W
Ahead = N 15° 28′ 51.65″ E
Chord Bear = N 9° 49′ 11.19″ W

Curve Data

Curve S5OREL_TOC32
P.I. Station 30+63.50 N 1,119,631.01 E 2,009,319.85
Delta = 15° 44′ 56.34″ (RT)
Degree = 28° 34′ 35.22″
Tangent = 27.73
Length = 55.11
Radius = 200.50
External = 1.91
Long Chord = 54.94
Mid. Ord. = 1.89
P.C. Station 30+35.77 N 1,119,604.28 E 2,009,312.45
P.T. Station 30+90.88 N 1,119,654.72 E 2,009,334.22
C.C. N 1,119,550.77 E 2,009,505.67
Back = N 15° 28′ 51.65″ E
Ahead = N 31° 13′ 47.99″ E
Chord Bear = N 23° 21′ 19.82″ E

Course from PT S5OREL_TOC32 to PC S5OREL_TOC33 N 31° 13′ 47.99″ E Dist 63.13

Curve Data

Curve S5OREL_TOC33
P.I. Station 31+88.98 N 1,119,738.60 E 2,009,385.09
Delta = 43° 07′ 24.97″ (RT)
Degree = 64° 44′ 27.58″
Tangent = 34.97
Length = 66.61
Radius = 88.50
External = 6.46
Long Chord = 65.05
Mid. Ord. = 6.19
P.C. Station 31+54.01 N 1,119,708.70 E 2,009,366.95
P.T. Station 32+20.62 N 1,119,748.04 E 2,009,418.76
C.C. N 1,119,662.82 E 2,009,442.63
Back = N 31° 13′ 47.99″ E
Ahead = N 74° 21′ 12.96″ E
Chord Bear = N 52° 47′ 30.47″ E

Curve Data

Curve S5OREL_TOC34
P.I. Station 32+21.44 N 1,119,748.26 E 2,009,419.56
Delta = 1° 40′ 46.34″ (LT)
Degree = 101° 24′ 30.45″
Tangent = 0.83
Length = 1.66
Radius = 56.50
External = 0.01
Long Chord = 1.66
Mid. Ord. = 0.01
P.C. Station 32+20.62 N 1,119,748.04 E 2,009,418.76
P.T. Station 32+22.27 N 1,119,748.51 E 2,009,420.35
C.C. N 1,119,802.44 E 2,009,403.52
Back = N 74° 21′ 12.96″ E
Ahead = N 72° 40′ 26.61″ E
Chord Bear = N 73° 30′ 49.79″ E

Curve Data

Curve S5OREL_TOC35
P.I. Station 32+53.04 N 1,119,756.23 E 2,009,450.13
Delta = 11° 50′ 29.46″ (RT)
Degree = 19° 18′ 50.82″
Tangent = 30.76
Length = 61.31
Radius = 296.65
External = 1.59
Long Chord = 61.20
Mid. Ord. = 1.58
P.C. Station 32+22.27 N 1,119,748.51 E 2,009,420.35
P.T. Station 32+83.58 N 1,119,757.68 E 2,009,480.86
C.C. N 1,119,461.36 E 2,009,494.85
Back = N 75° 27′ 17.52″ E
Ahead = N 87° 17′ 46.98″ E
Chord Bear = N 81° 22′ 32.25″ E

Curve Data

Curve S5OREL_TOC36
P.I. Station 33+14.04 N 1,119,759.12 E 2,009,511.28
Delta = 11° 50′ 32.14″ (RT)
Degree = 19° 30′ 40.67″
Tangent = 30.46
Length = 60.69
Radius = 293.65
External = 1.58
Long Chord = 60.59
Mid. Ord. = 1.57
P.C. Station 32+83.58 N 1,119,757.68 E 2,009,480.86
P.T. Station 33+44.28 N 1,119,754.28 E 2,009,541.35
C.C. N 1,119,464.36 E 2,009,494.71
Back = N 87° 17′ 46.98″ E
Ahead = S 80° 51′ 40.88″ E
Chord Bear = S 86° 46′ 56.95″ E

Course from PT S5OREL_TOC36 to 20201 S 83° 41′ 53.68″ E Dist 46.76

Point 20201 N 1,119,749.15 E 2,009,587.82 Sta 33+91.03

Ending chain S5OREL_TOC3 description

Beginning profile S5OREL_TOC3 description:

		STATION	ELEV	GRADE	TOTAL L	BACK L	AHEAD L
VPI	1	30+00.00	664.4470				
VPI	2	30+10.00	664.5540	1.0700			
VPI	3	30+20.00	664.6220	0.6800			
VPI	4	30+71.65	664.8300	0.4027			
VPI	5	30+80.00	664.8970	0.8028			
VPI	6	30+90.00	664.9880	0.9100			
VPI	7	31+00.00	665.0880	1.0000			
VPI	8	31+10.00	665.2030	1.1500			
VPI	9	31+20.00	665.3330	1.3000			
VPI	10	31+30.00	665.4780	1.4500			
VPI	11	31+40.00	665.6390	1.6100			
VPI	12	31+50.00	665.8140	1.7500			
VPI	13	31+60.00	666.0030	1.8900			
VPI	14	31+70.00	666.2210	2.1800			
VPI	15	31+80.00	666.4740	2.5300			
VPI	16	31+90.00	666.7420	2.6800			
VPC		31+92.13	666.7991	2.6807	K = 10.2	SSD = 451.0	
VPI	17	32+04.63	667.1342		25.0000	12.5000	12.5000
VPT		32+17.13	667.1617	0.2200			
VPI	18	32+60.00	667.2560	0.2200			
VPI	19	32+70.00	667.2780	0.2200			
VPI	20	32+80.00	667.2770	-0.0100			
VPI	21	32+90.00	667.2530	-0.2400			
VPI	22	33+00.00	667.2050	-0.4800			
VPI	23	33+10.00	667.1340	-0.7100			
VPI	24	33+20.00	667.0390	-0.9500			
VPI	25	33+30.00	666.9200	-1.1900			
VPI	26	33+40.00	666.7780	-1.4200			
VPI	27	33+50.00	666.6260	-1.5200			
VPI	28	33+60.00	666.4600	-1.6600			
VPI	29	33+70.00	666.2720	-1.8800			
VPI	30	33+80.00	666.0600	-2.1200			
VPI	31	33+90.00	665.8270	-2.3300			
VPI	32	33+91.03	665.8010	-2.5243			

Ending profile S5OREL_TOC3 description

TOP OF CURB 4

Beginning chain S5OREL_TOC4 description

Curve Data

Curve S5OREL_TOC41
P.I. Station 40+42.68 N 1,119,787.74 E 2,009,502.58
Delta = 15° 07′ 28.83″ (LT)
Degree = 17° 49′ 17.02″
Tangent = 42.68
Length = 84.87
Radius = 321.50
External = 2.82
Long Chord = 84.62
Mid. Ord. = 2.80
P.C. Station 40+00.00 N 1,119,783.06 E 2,009,545.01
P.T. Station 40+84.87 N 1,119,781.19 E 2,009,460.40
C.C. N 1,119,463.50 E 2,009,509.72
Back = N 83° 41′ 53.96″ W
Ahead = S 81° 10′ 37.22″ W
Chord Bear = S 88° 44′ 21.63″ W

Curve Data

Curve S5OREL_TOC42
P.I. Station 40+87.37 N 1,119,780.81 E 2,009,457.93
Delta = 118° 03′ 28.11″ (RT)
Degree = 3819° 43′ 07.37″
Tangent = 2.50
Length = 3.09
Radius = 1.50
External = 1.41
Long Chord = 2.57
Mid. Ord. = 0.73
P.C. Station 40+84.87 N 1,119,781.19 E 2,009,460.40
P.T. Station 40+87.96 N 1,119,783.17 E 2,009,458.76
C.C. N 1,119,782.68 E 2,009,460.17
Back = S 81° 10′ 37.22″ W
Ahead = N 19° 14′ 05.32″ E
Chord Bear = N 39° 47′ 38.73″ W

Curve Data

Curve S5OREL_TOC43
P.I. Station 40+99.79 N 1,119,794.34 E 2,009,462.65
Delta = 22° 51′ 44.34″ (LT)
Degree = 97° 56′ 29.41″
Tangent = 11.83
Length = 23.34
Radius = 58.50
External = 1.18
Long Chord = 23.19
Mid. Ord. = 1.16
P.C. Station 40+87.96 N 1,119,783.17 E 2,009,458.76
P.T. Station 41+11.30 N 1,119,806.14 E 2,009,461.91
C.C. N 1,119,802.44 E 2,009,403.52
Back = N 19° 14′ 05.32″ E
Ahead = N 3° 37′ 39.01″ W
Chord Bear = N 7° 48′ 13.16″ E

Curve Data

Curve S5OREL_TOC44
P.I. Station 41+62.79 N 1,119,857.53 E 2,009,458.65
Delta = 20° 14′ 13.73″ (RT)
Degree = 19° 51′ 35.60″
Tangent = 51.49
Length = 101.90
Radius = 288.50
External = 4.56
Long Chord = 101.37
Mid. Ord. = 4.49
P.C. Station 41+11.30 N 1,119,806.14 E 2,009,461.91
P.T. Station 42+13.20 N 1,119,906.86 E 2,009,473.37
C.C. N 1,119,824.40 E 2,009,749.83
Back = N 3° 37′ 39.01″ W
Ahead = N 16° 36′ 34.72″ E
Chord Bear = N 6° 29′ 27.85″ E

Course from PT S5OREL_TOC44 to PC S5OREL_TOC45 N 15° 20′ 44.38″ E Dist 24.77

Curve Data

Curve S5OREL_TOC45
P.I. Station 42+48.30 N 1,119,940.25 E 2,009,483.98
Delta = 0° 36′ 54.43″ (LT)
Degree = 2° 58′ 40.79″
Tangent = 10.33
Length = 20.66
Radius = 1,923.97
External = 0.03
Long Chord = 20.66
Mid. Ord. = 0.03
P.C. Station 42+37.97 N 1,119,930.75 E 2,009,479.92
P.T. Station 42+58.63 N 1,119,949.79 E 2,009,487.94
C.C. N 1,120,687.59 E 2,007,711.06
Back = N 23° 09′ 52.35″ E
Ahead = N 22° 32′ 57.92″ E
Chord Bear = N 22° 51′ 25.14″ E

Ending chain S5OREL_TOC4 description

Beginning profile S5OREL_TOC4 description:

		STATION	ELEV	GRADE	TOTAL L	BACK L	AHEAD L
VPI	1	40+00.00	667.0910				
VPI	2	40+10.00	667.2270	1.3600			
VPI	3	40+20.00	667.3300	1.0300			
VPI	4	40+30.00	667.4130	0.8300			
VPI	5	40+40.00	667.4770	0.6400			
VPI	6	40+50.00	667.5720	0.9500			
VPI	7	40+60.00	667.6500	0.7800			
VPI	8	40+70.00	667.8750	2.2500			
VPI	9	40+80.00	667.9140	0.3900			
VPI	10	40+90.00	667.9450	0.3100			
VPI	11	41+00.00	668.1760	2.3100			
VPC		41+57.58	669.5062	2.3102	K = 0.9		
VPI	12	41+58.58	669.5293		2.0000	1.0000	1.0000
VPT		41+59.58	669.5749	4.5569			
VPI	13	41+60.00	669.5940	4.5569			
VPI	14	41+70.00	670.0510	4.5700			
VPI	15	41+80.00	670.4750	4.2400			
VPI	16	41+90.00	670.8710	3.9600			
VPI	17	42+00.00	671.2450	3.7400			
VPI	18	42+10.00	671.7730	5.2800			
VPI	19	42+20.00	672.1240	3.5100			
VPI	20	42+30.00	672.4630	3.3900			
VPI	21	42+40.00	672.8020	3.3900			
VPI	22	42+50.00	673.1570	3.5500			
VPI	23	42+58.63	673.4230	3.0827			

Ending profile S5OREL_TOC4 description

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SOUTH CAROLINA KCI TECHNOLOGIES, INC. No. C00651 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER 10/1/2025 JOSEPH WAYNE KELLY No. 21580

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

TOP OF CURB PROFILE SHEET
TOP OF CURBS 3&4

SCALE 1" = NTS

SCALE : 300.000 ft. / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\05H-05M TOC Profile.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	5J

TOP OF CURB 5

Beginning chain S50REL_TOC5 description

Curve Data

Curve S50REL_TOC51
P.I. Station = 50+11.18 N 1,120,174.50 E 2,009,536.32
Delta = 0° 40′ 33.09″ (LT)
Degree = 3° 01′ 19.12″
Tangent = 11.18
Length = 22.36
Radius = 1,895.97
External = 0.03
Long Chord = 22.36
Mid. Ord. = 0.03
P.C. Station = 50+00.00 N 1,120,163.75 E 2,009,533.23
P.T. Station = 50+22.36 N 1,120,185.28 E 2,009,539.28
C.C. N 1,120,687.59 E 2,007,711.06
Back = N 16° 02′ 20.35″ E
Ahead = N 15° 21′ 47.26″ E
Chord Bear = N 15° 42′ 03.81″ E

Course from PT S50REL_TOC51 to PC S50REL_TOC52 N 7° 39′ 19.32″ E Dist 37.50

Curve Data

Curve S50REL_TOC52
P.I. Station = 50+98.03 N 1,120,260.20 E 2,009,549.91
Delta = 14° 22′ 12.72″ (LT)
Degree = 18° 55′ 27.52″
Tangent = 38.17
Length = 75.94
Radius = 302.76
External = 2.40
Long Chord = 75.74
Mid. Ord. = 2.38
P.C. Station = 50+59.86 N 1,120,222.45 E 2,009,544.28
P.T. Station = 51+35.80 N 1,120,298.16 E 2,009,545.99
C.C. N 1,120,267.10 E 2,009,244.83
Back = N 8° 28′ 51.85″ E
Ahead = N 5° 53′ 20.87″ W
Chord Bear = N 1° 17′ 45.49″ E

Curve Data

Curve S50REL_TOC53
P.I. Station = 51+77.98 N 1,120,339.85 E 2,009,539.57
Delta = 18° 32′ 07.72″ (LT)
Degree = 22° 09′ 52.96″
Tangent = 42.18
Length = 83.63
Radius = 258.50
External = 3.42
Long Chord = 83.26
Mid. Ord. = 3.37
P.C. Station = 51+35.80 N 1,120,298.16 E 2,009,545.99
P.T. Station = 52+19.43 N 1,120,377.34 E 2,009,520.22
C.C. N 1,120,258.78 E 2,009,290.51
Back = N 8° 45′ 51.00″ W
Ahead = N 27° 17′ 58.72″ W
Chord Bear = N 18° 01′ 54.86″ W

Curve Data

Curve S50REL_TOC54
P.I. Station = 52+33.87 N 1,120,390.17 E 2,009,513.60
Delta = 28° 40′ 27.10″ (RT)
Degree = 101° 24′ 15.37″
Tangent = 14.44
Length = 28.28
Radius = 56.50
External = 1.82
Long Chord = 27.98
Mid. Ord. = 1.76
P.C. Station = 52+19.43 N 1,120,377.34 E 2,009,520.22
P.T. Station = 52+47.70 N 1,120,404.61 E 2,009,513.94
C.C. N 1,120,403.25 E 2,009,570.43
Back = N 27° 17′ 58.72″ W
Ahead = N 1° 22′ 28.38″ E
Chord Bear = N 12° 57′ 45.17″ W

Curve Data

Curve S50REL_TOC55
P.I. Station = 52+51.50 N 1,120,408.40 E 2,009,514.03
Delta = 124° 24′ 42.12″ (LT)
Degree = 2865° 53′ 04.68″
Tangent = 3.79
Length = 4.34
Radius = 2.00
External = 2.29
Long Chord = 3.54
Mid. Ord. = 1.07
P.C. Station = 52+47.70 N 1,120,404.61 E 2,009,513.94
P.T. Station = 52+52.04 N 1,120,406.33 E 2,009,510.85
C.C. N 1,120,404.65 E 2,009,511.94
Back = N 1° 22′ 28.38″ E
Ahead = S 56° 57′ 46.27″ W
Chord Bear = N 60° 49′ 52.68″ W

Curve Data

Curve S50REL_TOC56
P.I. Station = 52+78.86 N 1,120,391.71 E 2,009,488.37
Delta = 5° 15′ 46.00″ (LT)
Degree = 9° 49′ 05.97″
Tangent = 26.82
Length = 53.60
Radius = 583.56
External = 0.62
Long Chord = 53.58
Mid. Ord. = 0.62
P.C. Station = 52+52.04 N 1,120,406.33 E 2,009,510.85
P.T. Station = 53+05.65 N 1,120,375.09 E 2,009,467.32
C.C. N 1,119,917.12 E 2,009,829.00
Back = S 56° 57′ 46.27″ W
Ahead = S 51° 42′ 00.26″ W
Chord Bear = S 54° 19′ 53.26″ W

Curve Data

Curve S50REL_TOC57
P.I. Station = 53+12.74 N 1,120,370.69 E 2,009,461.75
Delta = 121° 11′ 59.35″ (LT)
Degree = 1432° 57′ 49.37″
Tangent = 7.10
Length = 8.46
Radius = 4.00
External = 4.15
Long Chord = 6.97
Mid. Ord. = 2.04
P.C. Station = 53+05.65 N 1,120,375.09 E 2,009,467.32
P.T. Station = 53+14.10 N 1,120,368.20 E 2,009,468.40
C.C. N 1,120,371.95 E 2,009,469.80
Back = S 51° 42′ 00.26″ W
Ahead = S 69° 29′ 59.09″ E
Chord Bear = S 8° 53′ 59.41″ E

Course from PT S50REL_TOC57 to 20401 S 69° 30′ 00.51″ E Dist 66.20

Point 20401 N 1,120,345.02 E 2,009,530.41 Sta 53+80.31

Ending chain S50REL_TOC5 description

Beginning profile S50REL_TOC5 description:

		STATION	ELEV	GRADE	TOTAL L	BACK L	AHEAD L
VPI	1	50+00.00	678.203000				
VPI	2	50+10.00	678.518000	3.150000			
VPI	3	50+20.00	678.860000	3.420000			
VPI	4	50+30.00	679.183000	3.230000			
VPI	5	50+40.00	679.504000	3.210000			
VPI	6	50+50.00	679.823000	3.190000			
VPI	7	50+60.00	680.131000	3.080000			
VPI	8	50+70.00	680.354000	2.230000			
VPI	9	50+80.00	680.549000	1.950000			
VPI	10	50+90.00	680.721000	1.720000			
VPI	11	51+00.00	680.871000	1.500000			
VPI	12	51+10.00	680.997000	1.260000			
VPI	13	51+20.00	681.100000	1.030000			
VPI	14	51+30.00	681.170000	0.700000			
VPI	15	51+40.00	681.219000	0.490000			
VPI	16	51+50.00	681.251000	0.320000			
VPI	17	51+60.00	681.272000	0.210000			
VPI	18	51+70.00	681.309000	0.370000			
VPI	19	51+80.00	681.432000	1.230000			
VPC		51+80.09	681.433105	1.228123	K = 3.7	SSD = 669.8	
VPI	20	51+83.09	681.469949		6.000000	3.000000	3.000000
High Point		51+84.64	681.461069				
VPT		51+86.09	681.458249	-0.390000			
VPI	21	52+20.00	681.326000	-0.390000			
VPI	22	52+30.00	681.287000	-0.390000			
VPI	23	52+40.00	681.299000	0.120000			
VPC		52+41.33	681.300589	0.119867	K = 2.0	SSD = 148.4	
High Point		52+41.56	681.300729				
VPI	24	52+48.83	681.309579		14.999739	7.499870	7.499870
VPT		52+56.33	680.744088	-7.540000			
VPI	25	52+60.00	680.467000	-7.540000			
VPI	26	52+70.00	679.713000	-7.540000			
VPI	27	52+80.00	678.790000	-9.230000			
VPI	28	52+90.00	678.266000	-5.240000			
VPI	29	53+00.00	677.956000	-3.100000			
VPC		53+36.83	676.814352	-3.099848	K = 0.5		
Low Point		53+38.28	676.791830				
VPI	30	53+38.33	676.767828		3.001666	1.500833	1.500833
VPT		53+39.83	676.817411	3.303705			
VPI	31	53+40.00	676.823000	3.303705			
VPI	32	53+50.00	677.153000	3.300000			
VPI	33	53+60.00	677.513000	3.600000			
VPI	34	53+70.00	677.893000	3.800000			
VPI	35	53+80.00	678.253000	3.600000			
VPI	36	53+80.31	676.263000	3.268102			

Ending profile S50REL_TOC5 description

SCALE : 300.000 ft. / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\05H-05M TOC Profile.dgn

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 21580 — 10/1/2025 — BRIAN WAYNE KEYS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION	SCALE 1" = NTS
5				YORK COUNTY
4				
3				TOP OF CURB PROFILE SHEET
2				TOP OF CURB 5
1				

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	5K

TOP OF CURB 6

Beginning chain S50REL_TOC6 description

Curve S50REL_TOC61		Curve Data			
P.I. Station	60+32.29	N	1,120,429.79	E	2,009,503.22
Delta =	6° 05′ 41.60″ (RT)				
Degree =	9° 26′ 49.04″				
Tangent =	32.29				
Length =	64.52				
Radius =	606.50				
External =	0.86				
Long Chord =	64.49				
Mid. Ord. =	0.86				
P.C. Station	60+00.00	N	1,120,411.05	E	2,009,476.93
P.T. Station	60+64.52	N	1,120,445.63	E	2,009,531.36
C.C.		N	1,119,917.17	E	2,009,828.96
Back = N	54° 31′ 07.21″ E				
Ahead = N	60° 36′ 48.82″ E				
Chord Bear = N	57° 33′ 58.01″ E				

Curve S50REL_TOC62		Curve Data			
P.I. Station	60+74.16	N	1,120,450.37	E	2,009,539.76
Delta =	12° 26′ 33.74″ (LT)				
Degree =	64° 44′ 27.58″				
Tangent =	9.65				
Length =	19.22				
Radius =	88.50				
External =	0.52				
Long Chord =	19.18				
Mid. Ord. =	0.52				
P.C. Station	60+64.52	N	1,120,445.63	E	2,009,531.36
P.T. Station	60+83.74	N	1,120,456.80	E	2,009,546.95
C.C.		N	1,120,522.75	E	2,009,487.93
Back = N	60° 36′ 48.82″ E				
Ahead = N	48° 10′ 15.08″ E				
Chord Bear = N	54° 23′ 31.95″ E				

Curve S50REL_TOC63		Curve Data			
P.I. Station	61+20.36	N	1,120,481.23	E	2,009,574.24
Delta =	29° 37′ 34.02″ (LT)				
Degree =	41° 22′ 07.66″				
Tangent =	36.63				
Length =	71.61				
Radius =	138.50				
External =	4.76				
Long Chord =	70.82				
Mid. Ord. =	4.60				
P.C. Station	60+83.74	N	1,120,456.80	E	2,009,546.95
P.T. Station	61+55.35	N	1,120,515.95	E	2,009,585.89
C.C.		N	1,120,560.00	E	2,009,454.58
Back = N	48° 10′ 15.08″ E				
Ahead = N	18° 32′ 41.06″ E				
Chord Bear = N	33° 21′ 28.07″ E				

Course from PT S50REL_TOC63 to PC S50REL_TOC64 N 18° 32′ 41.06″ E Dist 28.65

Curve S50REL_TOC64		Curve Data			
P.I. Station	61+94.00	N	1,120,552.60	E	2,009,598.19
Delta =	90° 00′ 00.00″ (LT)				
Degree =	572° 57′ 28.06″				
Tangent =	10.00				
Length =	15.71				
Radius =	10.00				
External =	4.14				
Long Chord =	14.14				
Mid. Ord. =	2.93				
P.C. Station	61+84.00	N	1,120,543.12	E	2,009,595.00
P.T. Station	61+99.71	N	1,120,555.78	E	2,009,588.70
C.C.		N	1,120,546.30	E	2,009,585.52
Back = N	18° 32′ 41.06″ E				
Ahead = N	71° 27′ 18.94″ W				
Chord Bear = N	26° 27′ 18.94″ W				

Course from PT S50REL_TOC64 to PC S50REL_TOC65 N 71° 27′ 18.94″ W Dist 5.98

Curve S50REL_TOC65		Curve Data			
P.I. Station	62+14.19	N	1,120,560.38	E	2,009,574.98
Delta =	80° 40′ 52.62″ (LT)				
Degree =	572° 57′ 28.06″				
Tangent =	8.49				
Length =	14.08				
Radius =	10.00				
External =	3.12				
Long Chord =	12.95				
Mid. Ord. =	2.38				
P.C. Station	62+05.69	N	1,120,557.68	E	2,009,583.03
P.T. Station	62+19.77	N	1,120,552.87	E	2,009,571.01
C.C.		N	1,120,548.20	E	2,009,579.85
Back = N	71° 27′ 18.94″ W				
Ahead = S	27° 51′ 48.45″ W				
Chord Bear = S	68° 12′ 14.75″ W				

Curve S50REL_TOC66		Curve Data			
P.I. Station	62+76.47	N	1,120,502.75	E	2,009,544.51
Delta =	9° 24′ 07.74″ (RT)				
Degree =	8° 18′ 35.13″				
Tangent =	56.70				
Length =	113.15				
Radius =	689.50				
External =	2.33				
Long Chord =	113.02				
Mid. Ord. =	2.32				
P.C. Station	62+19.77	N	1,120,552.87	E	2,009,571.01
P.T. Station	63+32.92	N	1,120,457.62	E	2,009,510.18
C.C.		N	1,120,875.12	E	2,008,961.45
Back = S	27° 51′ 48.45″ W				
Ahead = S	37° 15′ 56.19″ W				
Chord Bear = S	32° 33′ 52.32″ W				

Curve S50REL_TOC67		Curve Data			
P.I. Station	63+61.19	N	1,120,435.13	E	2,009,493.06
Delta =	4° 23′ 24.36″ (RT)				
Degree =	7° 46′ 08.11″				
Tangent =	28.27				
Length =	56.51				
Radius =	737.50				
External =	0.54				
Long Chord =	56.49				
Mid. Ord. =	0.54				
P.C. Station	63+32.92	N	1,120,457.62	E	2,009,510.18
P.T. Station	63+89.43	N	1,120,414.01	E	2,009,474.27
C.C.		N	1,120,904.19	E	2,008,923.25
Back = S	37° 15′ 56.19″ W				
Ahead = S	41° 39′ 20.55″ W				
Chord Bear = S	39° 27′ 38.37″ W				

Curve S50REL_TOC68		Curve Data			
P.I. Station	64+07.17	N	1,120,400.75	E	2,009,462.48
Delta =	167° 08′ 13.34″ (LT)				
Degree =	2864° 47′ 20.28″				
Tangent =	17.74				
Length =	5.83				
Radius =	2.00				
External =	15.85				
Long Chord =	3.97				
Mid. Ord. =	1.78				
P.C. Station	63+89.43	N	1,120,414.01	E	2,009,474.27
P.T. Station	63+95.26	N	1,120,411.05	E	2,009,476.93
C.C.		N	1,120,412.68	E	2,009,475.77
Back = S	41° 39′ 20.55″ W				
Ahead = N	54° 31′ 07.21″ E				
Chord Bear = S	41° 54′ 46.12″ E				

Ending chain S50REL_TOC6 description

Beginning profile S50REL_TOC6 description:

		STATION	ELEV	GRADE	TOTAL L	BACK L	AHEAD L
VPI	1	60+00.00	679.0320				
VPI	2	60+10.00	679.4280	3.9600			
VPI	3	60+20.00	679.8240	3.9600			
VPI	4	60+30.00	680.2200	3.9600			
VPC		60+57.44	681.3066	3.9600	K = 12.8	SSD = 351.0	
VPI	5	60+78.44	682.1382		42.0000	21.0000	21.0000
VPT		60+99.44	682.2831	0.6900			
VPI	6	61+00.00	682.2870	0.6900			
VPI	7	61+10.00	682.3560	0.6900			
VPI	8	61+20.00	682.4910	1.3500			
VPI	9	61+30.00	682.6120	1.2100			
VPI	10	61+40.00	682.7240	1.1200			
VPI	11	61+50.00	682.8020	0.7800			
VPI	12	61+60.00	682.8620	0.6000			
VPI	13	61+70.00	682.9050	0.4300			
VPI	14	61+80.00	682.9340	0.2900			
VPI	15	61+84.00	682.9400	0.1499			
VPC		61+84.23	682.9403	0.1501	K = 3.2	SSD = 412.8	
High Point		61+84.71	682.9407				
VPI	16	61+88.48	682.9467		8.5000	4.2500	4.2500
VPT		61+92.73	682.8409	-2.4909			
VPI	17	61+99.71	682.6670	-2.4909			
VPI	18	62+05.69	682.5160	-2.5249			
VPC		62+05.78	682.5138	-2.5000	K = 1.8		
VPI	19	62+07.78	682.4638		3.9999	1.9999	1.9999
VPT		62+09.78	682.4586	-0.2602			
VPI	20	62+20.00	682.4320	-0.2602			
VPI	21	62+30.00	682.4060	-0.2600			
VPI	22	62+40.00	682.3570	-0.4900			
VPI	23	62+50.00	682.2830	-0.7400			
VPI	24	62+60.00	682.1930	-0.9000			
VPI	25	62+70.00	682.0810	-1.1200			
VPI	26	62+80.00	681.9480	-1.3300			
VPI	27	62+90.00	681.7930	-1.5500			
VPI	28	63+00.00	681.6130	-1.8000			
VPI	29	63+10.00	681.4130	-2.0000			
VPI	30	63+20.00	681.2030	-2.1000			
VPI	31	63+30.00	680.9660	-2.3700			
VPI	32	63+40.00	680.7030	-2.6300			
VPI	33	63+50.00	680.4250	-2.7800			
VPI	34	63+60.00	680.1220	-3.0300			
VPI	35	63+70.00	679.8020	-3.2000			
VPI	36	63+80.00	679.4580	-3.4400			
VPI	37	63+89.43	679.1150	-3.6373			
VPC		63+92.06	679.0193	-3.6373	K = 0.4		
Low Point		63+93.50	678.9932				
VPI	38	63+93.56	678.9648		2.9982	1.4991	1.4991
VPT		63+95.06	679.0241	3.9555			
VPI	39	63+95.26	679.0320	3.9555			

Ending profile S50REL_TOC6 description

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl

FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019251903786\2. Working\Roadway\DGN\Plan Sheets\05H-05M TOC Profile.dgn

SCALE : 300.000 ft. / in.

PLOT DRIVER : pdf.pltcfg

PLOTTED : 9/15/2025

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 21580 — 10/1/2025 — BRIAN WAYNE KEYS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

TOP OF CURB PROFILE SHEET
TOP OF CURB 6

SCALE 1" = NTS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	5L

TOP OF CURB 7

Beginning chain S50REL_TOC7 description

Curve Data

Curve S50REL_TOC71					
P.I. Station	70+10.33	N	1,120,168.42	E	2,009,563.69
Delta =	0° 36′ 54.43″ (LT)				
Degree =	2° 58′ 40.79″				
Tangent =	10.33				
Length =	20.66				
Radius =	1,923.97				
External =	0.03				
Long Chord =	20.66				
Mid. Ord. =	0.03				
P.C. Station	70+00.00	N	1,120,158.49	E	2,009,560.85
P.T. Station	70+20.66	N	1,120,178.38	E	2,009,566.42
C.C.		N	1,120,687.59	E	2,007,711.06
Back = N	15° 57′ 44.71″ E				
Ahead = N	15° 20′ 50.28″ E				
Chord Bear = N	15° 39′ 17.49″ E				

Course from PT S50REL_TOC71 to PC S50REL_TOC72 N 14° 24′ 30.53″ E Dist 37.50

Curve Data

Curve S50REL_TOC72					
P.I. Station	70+82.11	N	1,120,238.35	E	2,009,579.52
Delta =	7° 51′ 47.83″ (LT)				
Degree =	16° 26′ 26.46″				
Tangent =	23.95				
Length =	47.83				
Radius =	348.50				
External =	0.82				
Long Chord =	47.79				
Mid. Ord. =	0.82				
P.C. Station	70+58.16	N	1,120,214.70	E	2,009,575.76
P.T. Station	71+05.98	N	1,120,262.30	E	2,009,580.00
C.C.		N	1,120,269.41	E	2,009,231.58
Back = N	9° 01′ 58.56″ E				
Ahead = N	1° 10′ 10.73″ E				
Chord Bear = N	5° 06′ 04.64″ E				

Curve Data

Curve S50REL_TOC73					
P.I. Station	71+14.56	N	1,120,270.87	E	2,009,580.18
Delta =	9° 56′ 49.88″ (RT)				
Degree =	58° 10′ 05.89″				
Tangent =	8.57				
Length =	17.10				
Radius =	98.50				
External =	0.37				
Long Chord =	17.08				
Mid. Ord. =	0.37				
P.C. Station	71+05.98	N	1,120,262.30	E	2,009,580.00
P.T. Station	71+23.08	N	1,120,279.28	E	2,009,581.83
C.C.		N	1,120,260.29	E	2,009,678.48
Back = N	1° 10′ 10.73″ E				
Ahead = N	11° 07′ 00.61″ E				
Chord Bear = N	6° 08′ 35.67″ E				

Curve Data

Curve S50REL_TOC74					
P.I. Station	71+74.60	N	1,120,329.83	E	2,009,591.77
Delta =	20° 19′ 03.33″ (RT)				
Degree =	19° 55′ 44.28″				
Tangent =	51.52				
Length =	101.95				
Radius =	287.50				
External =	4.58				
Long Chord =	101.42				
Mid. Ord. =	4.51				
P.C. Station	71+23.08	N	1,120,279.28	E	2,009,581.83
P.T. Station	72+25.03	N	1,120,373.78	E	2,009,618.63
C.C.		N	1,120,223.85	E	2,009,863.94
Back = N	11° 07′ 00.61″ E				
Ahead = N	31° 26′ 03.94″ E				
Chord Bear = N	21° 16′ 32.27″ E				

Curve Data

Curve S50REL_TOC75					
P.I. Station	72+28.24	N	1,120,376.52	E	2,009,620.30
Delta =	6° 29′ 47.27″ (LT)				
Degree =	101° 24′ 30.43″				
Tangent =	3.21				
Length =	6.41				
Radius =	56.50				
External =	0.09				
Long Chord =	6.40				
Mid. Ord. =	0.09				
P.C. Station	72+25.03	N	1,120,373.78	E	2,009,618.63
P.T. Station	72+31.44	N	1,120,379.43	E	2,009,621.66
C.C.		N	1,120,403.25	E	2,009,570.42
Back = N	31° 26′ 03.94″ E				
Ahead = N	24° 56′ 16.67″ E				
Chord Bear = N	28° 11′ 10.30″ E				

Curve Data

Curve S50REL_TOC76					
P.I. Station	72+34.98	N	1,120,382.64	E	2,009,623.15
Delta =	121° 06′ 27.17″ (RT)				
Degree =	2864° 47′ 20.76″				
Tangent =	3.54				
Length =	4.23				
Radius =	2.00				
External =	2.07				
Long Chord =	3.48				
Mid. Ord. =	1.02				
P.C. Station	72+31.44	N	1,120,379.43	E	2,009,621.66
P.T. Station	72+35.67	N	1,120,379.70	E	2,009,625.13
C.C.		N	1,120,378.58	E	2,009,623.47
Back = N	24° 56′ 16.67″ E				
Ahead = S	33° 57′ 16.16″ E				
Chord Bear = N	85° 29′ 30.25″ E				

Curve Data

Curve S50REL_TOC77					
P.I. Station	72+52.68	N	1,120,365.59	E	2,009,634.63
Delta =	12° 17′ 06.81″ (LT)				
Degree =	36° 14′ 18.55″				
Tangent =	17.02				
Length =	33.90				
Radius =	158.11				
External =	0.91				
Long Chord =	33.84				
Mid. Ord. =	0.91				
P.C. Station	72+35.67	N	1,120,379.70	E	2,009,625.13
P.T. Station	72+69.57	N	1,120,353.82	E	2,009,646.92
C.C.		N	1,120,468.01	E	2,009,756.28
Back = S	33° 57′ 16.16″ E				
Ahead = S	46° 14′ 22.98″ E				
Chord Bear = S	40° 05′ 49.57″ E				

Ending chain S50REL_TOC7 description

Beginning profile S50REL_TOC7 description:

		STATION	ELEV	GRADE	TOTAL L	BACK L	AHEAD L
VPI	1	70+00.00	679.5940				
VPI	2	70+10.00	679.8220	2.2800			
VPI	3	70+20.00	680.0330	2.1100			
VPI	4	70+30.00	680.2490	2.1600			
VPI	5	70+40.00	680.4580	2.0900			
VPI	6	70+50.00	680.6510	1.9300			
VPI	7	70+60.00	680.8610	2.1000			
VPI	8	70+70.00	681.0630	2.0200			
VPI	9	70+80.00	681.2460	1.8300			
VPI	10	70+90.00	681.4100	1.6400			
VPI	11	71+00.00	681.5560	1.4600			
VPI	12	71+10.00	681.6860	1.3000			
VPI	13	71+20.00	681.8180	1.3200			
VPI	14	71+30.00	681.9550	1.3700			
VPI	15	71+40.00	682.0820	1.2700			
VPI	16	71+50.00	682.2110	1.2900			
VPI	17	71+60.00	682.3440	1.3300			
VPI	18	71+70.00	682.4790	1.3500			
VPI	19	71+80.00	682.6140	1.3500			
VPC		71+89.55	682.7429	1.3501	K = 12.8	SSD = 365.8	
High Point		72+06.86	682.8598				
VPI	20	72+09.55	683.0130		40.0000	20.0000	20.0000
VPT		72+29.55	682.6590	-1.7700			
VPI	21	72+30.00	682.6510	-1.7700			
VPI	22	72+40.00	682.4740	-1.7700			
VPI	23	72+50.00	682.3710	-1.0300			
VPI	24	72+60.00	682.2640	-1.0700			
VPI	25	72+69.57	682.1920	-0.7524			

Ending profile S50REL_TOC7 description

FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\2519037862\ WorkingIRoadwayIDGNIPlan Sheets\05H-05M TOC Profile.dgn
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
SCALE : 300.000 ft. / in.

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

KCI TECHNOLOGIES, INC. No. C00651 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 21580 10/1/2025 BRIAN WAYNE REYNOLDS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

SCALE 1" = NTS

YORK COUNTY

TOP OF CURB PROFILE SHEET
TOP OF CURB 7

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	5M

TOP OF CURB 8

Beginning chain S5OREL_TOC8 description

Point 20700 N 1,120,373.36 E 2,009,664.42 Sta 80+00.00

Course from 20700 to PC S5OREL_TOC81 N 48° 09′ 29.88″ W Dist 32.80

Curve Data

Curve S5OREL_TOC81
P.I. Station 80+47.94 N 1,120,407.76 E 2,009,631.46
Delta = 12° 39′ 33.07″ (RT)
Degree = 41° 58′ 29.75″
Tangent = 15.14
Length = 30.16
Radius = 136.50
External = 0.84
Long Chord = 30.10
Mid. Ord. = 0.83
P.C. Station 80+32.80 N 1,120,395.25 E 2,009,639.99
P.T. Station 80+62.96 N 1,120,421.84 E 2,009,625.89
C.C. N 1,120,472.08 E 2,009,752.81
Back = N 34° 15′ 12.28″ W
Ahead = N 21° 35′ 39.21″ W
Chord Bear = N 27° 55′ 25.74″ W

Curve Data

Curve S5OREL_TOC82
P.I. Station 80+64.07 N 1,120,422.89 E 2,009,625.54
Delta = 2° 10′ 29.75″ (LT)
Degree = 97° 56′ 29.40″
Tangent = 1.11
Length = 2.22
Radius = 58.50
External = 0.01
Long Chord = 2.22
Mid. Ord. = 0.01
P.C. Station 80+62.96 N 1,120,421.84 E 2,009,625.89
P.T. Station 80+65.18 N 1,120,423.93 E 2,009,625.15
C.C. N 1,120,403.25 E 2,009,570.42
Back = N 18° 31′ 42.12″ W
Ahead = N 20° 42′ 11.87″ W
Chord Bear = N 19° 36′ 57.00″ W

Curve Data

Curve S5OREL_TOC83
P.I. Station 81+03.03 N 1,120,459.33 E 2,009,611.77
Delta = 30° 59′ 38.47″ (RT)
Degree = 41° 58′ 29.75″
Tangent = 37.85
Length = 73.84
Radius = 136.50
External = 5.15
Long Chord = 72.94
Mid. Ord. = 4.96
P.C. Station 80+65.18 N 1,120,423.93 E 2,009,625.15
P.T. Station 81+39.02 N 1,120,496.57 E 2,009,618.53
C.C. N 1,120,472.19 E 2,009,752.83
Back = N 20° 42′ 11.87″ W
Ahead = N 10° 17′ 26.60″ E
Chord Bear = N 5° 12′ 22.64″ W

Curve Data

Curve S5OREL_TOC84
P.I. Station 81+67.09 N 1,120,524.19 E 2,009,623.54
Delta = 8° 05′ 50.45″ (RT)
Degree = 14° 27′ 01.39″
Tangent = 28.06
Length = 56.04
Radius = 396.50
External = 0.99
Long Chord = 55.99
Mid. Ord. = 0.99
P.C. Station 81+39.02 N 1,120,496.57 E 2,009,618.53
P.T. Station 81+95.06 N 1,120,550.82 E 2,009,632.39
C.C. N 1,120,425.74 E 2,010,008.65
Back = N 10° 17′ 26.60″ E
Ahead = N 18° 23′ 17.05″ E
Chord Bear = N 14° 20′ 21.82″ E

Curve Data

Curve S5OREL_TOC85
P.I. Station 82+06.69 N 1,120,561.86 E 2,009,636.06
Delta = 3° 10′ 39.84″ (LT)
Degree = 13° 39′ 29.20″
Tangent = 11.64
Length = 23.27
Radius = 419.50
External = 0.16
Long Chord = 23.26
Mid. Ord. = 0.16
P.C. Station 81+95.06 N 1,120,550.82 E 2,009,632.39
P.T. Station 82+18.32 N 1,120,573.09 E 2,009,639.12
C.C. N 1,120,683.15 E 2,009,234.31
Back = N 18° 23′ 17.05″ E
Ahead = N 15° 12′ 37.21″ E
Chord Bear = N 16° 47′ 57.13″ E

Ending chain S5OREL_TOC8 description

Beginning profile S5OREL_TOC8 description:

	STATION	ELEV	GRADE	TOTAL L	BACK L	AHEAD L
VPI 1	80+00.00	682.1550				
VPI 2	80+10.00	682.2410	0.8600			
VPI 3	80+20.00	682.3340	0.9300			
VPI 4	80+30.00	682.4510	1.1700			
VPC	80+64.76	682.8577	1.1700	K = 18.4	SSD = 585.5	
VPI 5	80+82.26	683.0624		34.9992	17.4996	17.4996
High Point	80+86.32	682.9838				
VPT	80+99.76	682.9348	-0.7297			
VPI 6	81+00.00	682.9330	-0.7297			
VPI 7	81+10.00	682.8600	-0.7300			
VPI 8	81+20.00	682.8170	-0.4300			
VPI 9	81+30.00	682.7970	-0.2000			
VPI 10	81+40.00	682.7870	-0.1000			
VPI 11	81+50.00	682.7740	-0.1300			
VPI 12	81+60.00	682.8280	0.5400			
VPI 13	81+70.00	682.8750	0.4700			
VPI 14	81+80.00	682.9030	0.2800			
VPI 15	81+90.00	682.9140	0.1100			
VPI 16	82+00.00	682.9070	-0.0700			
VPI 17	82+10.00	682.8870	-0.2000			
VPI 18	82+18.32	682.8610	-0.3125			

Ending profile S5OREL_TOC8 description

SCALE : 300.000 ft. / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\05H-05M TOC Profile.dgn

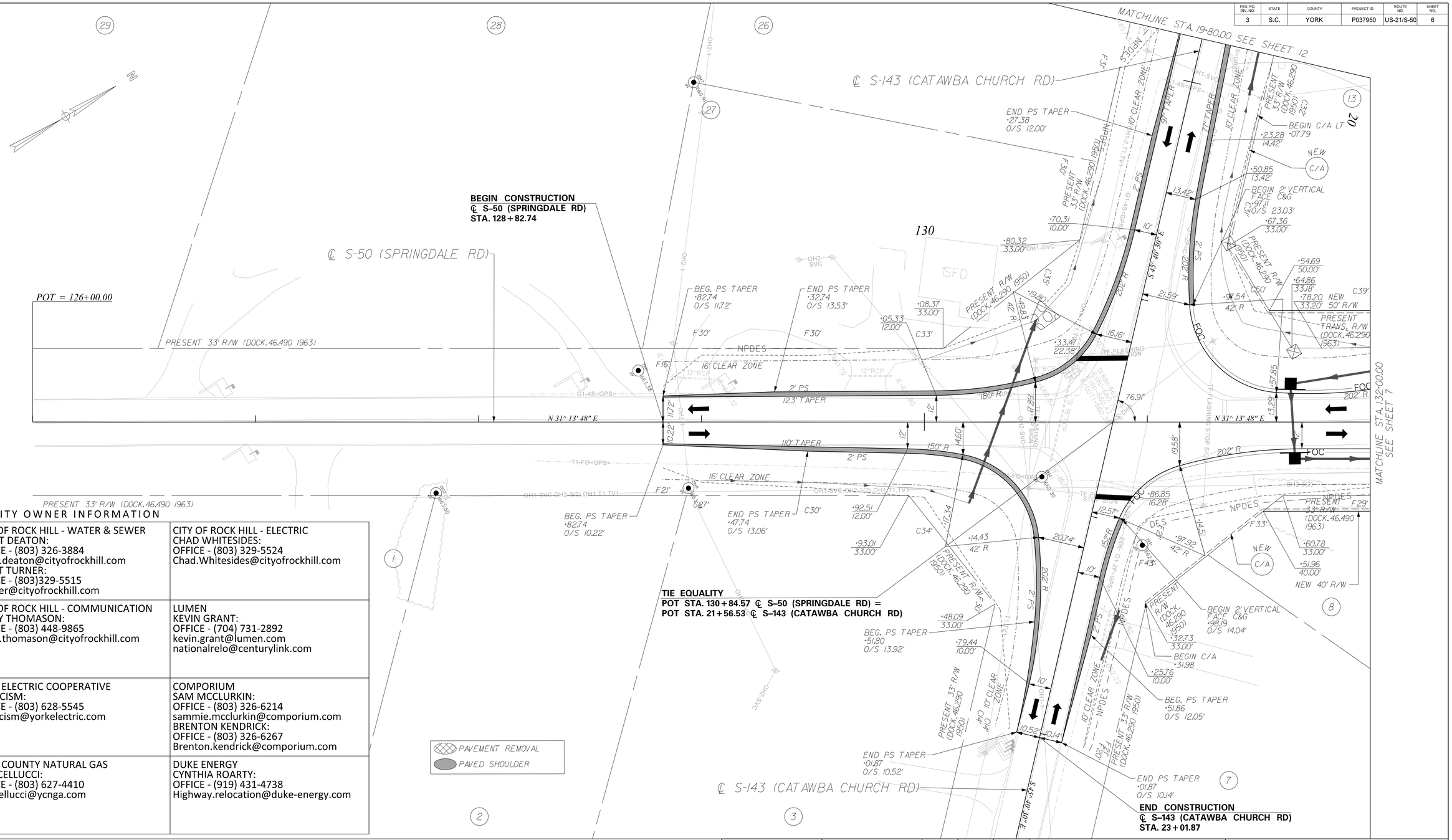
KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA KCI TECHNOLOGIES, INC. No. C00651 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 21580 10/1/2025 JOSEPH WAYNE KEYS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION	SCALE 1" = NTS
5				YORK COUNTY
4				
3				TOP OF CURB PROFILE SHEET TOP OF CURB 8
2				
1				

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	6



UTILITY OWNER INFORMATION

CITY OF ROCK HILL - WATER & SEWER BRENT DEATON: OFFICE - (803) 326-3884 Brent.deaton@cityofrockhill.com SCOTT TURNER: OFFICE - (803)329-5515 Sturner@cityofrockhill.com	CITY OF ROCK HILL - ELECTRIC CHAD WHITESIDES: OFFICE - (803) 329-5524 Chad.Whitesides@cityofrockhill.com
CITY OF ROCK HILL - COMMUNICATION RUSTY THOMASON: OFFICE - (803) 448-9865 Rusty.thomason@cityofrockhill.com	LUMEN KEVIN GRANT: OFFICE - (704) 731-2892 kevin.grant@lumen.com nationalrelo@centurylink.com
YORK ELECTRIC COOPERATIVE TIM SCISM: OFFICE - (803) 628-5545 Tim.Scism@yorkelectric.com	COMPORIUM SAM MCCLURKIN: OFFICE - (803) 326-6214 sammie.mcclurkin@comporium.com BRENTON KENDRICK: OFFICE - (803) 326-6267 Brenton.kendrick@comporium.com
YORK COUNTY NATURAL GAS ERIC CELLUCCI: OFFICE - (803) 627-4410 eric.cellucci@ycnga.com	DUKE ENERGY CYNTHIA ROARTY: OFFICE - (919) 431-4738 Highway.relocation@duke-energy.com

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

0 20 40 60 80

SOUTH CAROLINA KCI TECHNOLOGIES, INC. No. C00651 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 21580 WAYNE KEYS 10/1/2025

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

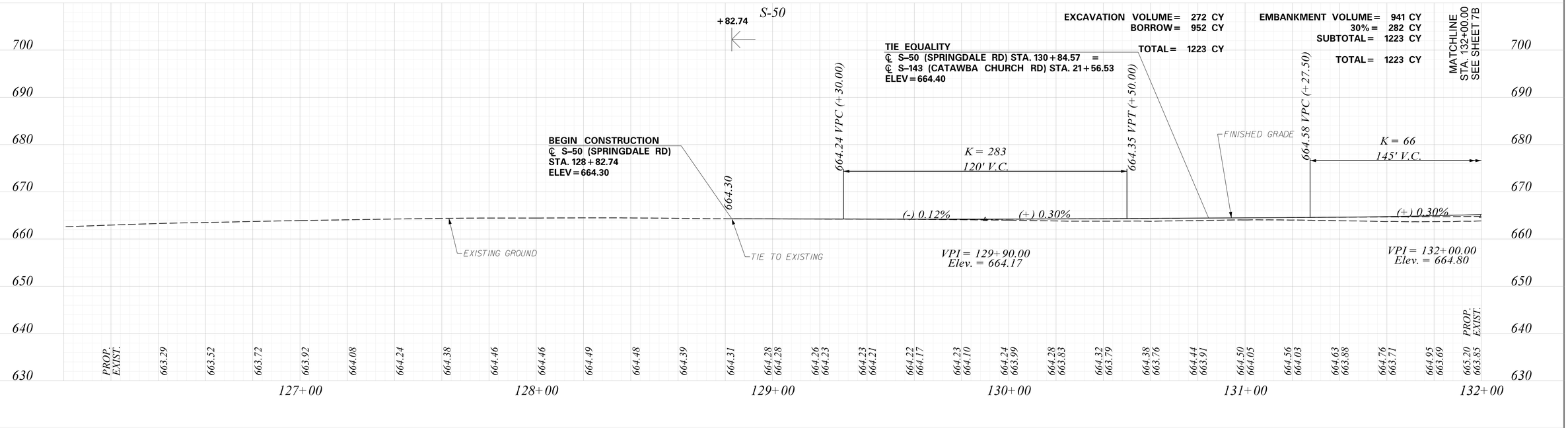
YORK COUNTY

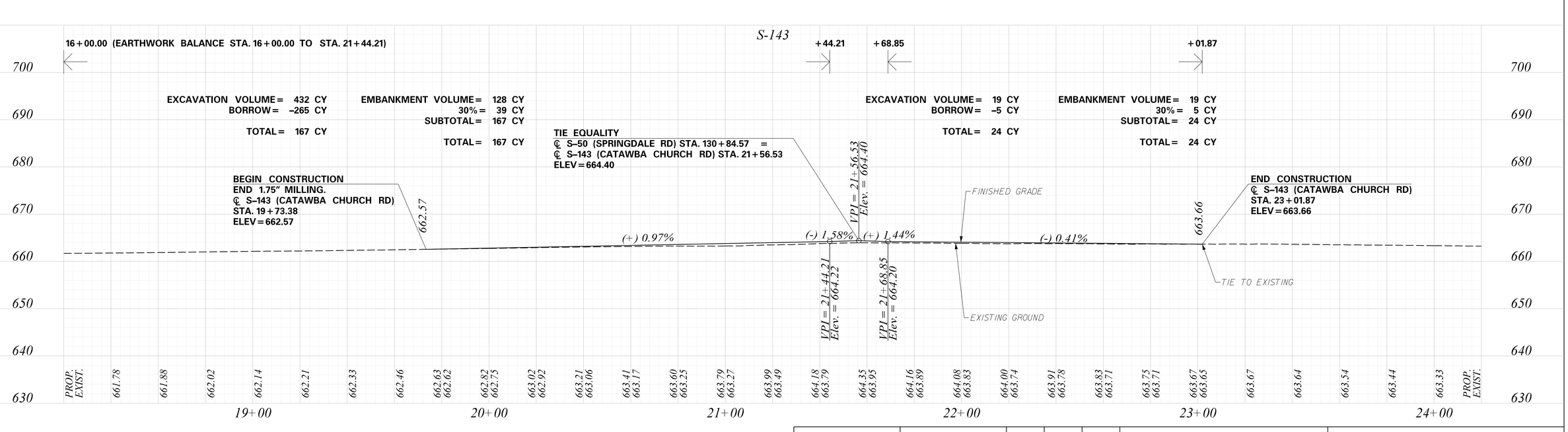
PLAN SHEET
S-50 (SPRINGDALE RD)
STA. 128+82.74 TO STA. 132+00.00
S-143 (CATAWBA CHURCH RD)

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02. Working\Roadway\DGN\Plan Sheets\06 Plan.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	6A





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SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

KCI TECHNOLOGIES
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SOUTH CAROLINA — KCI TECHNOLOGIES, INC. No. C00651 — CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA — PROFESSIONAL ENGINEER — No. 21580 — 10/1/2025 — BRIAN WAYNE KEYS

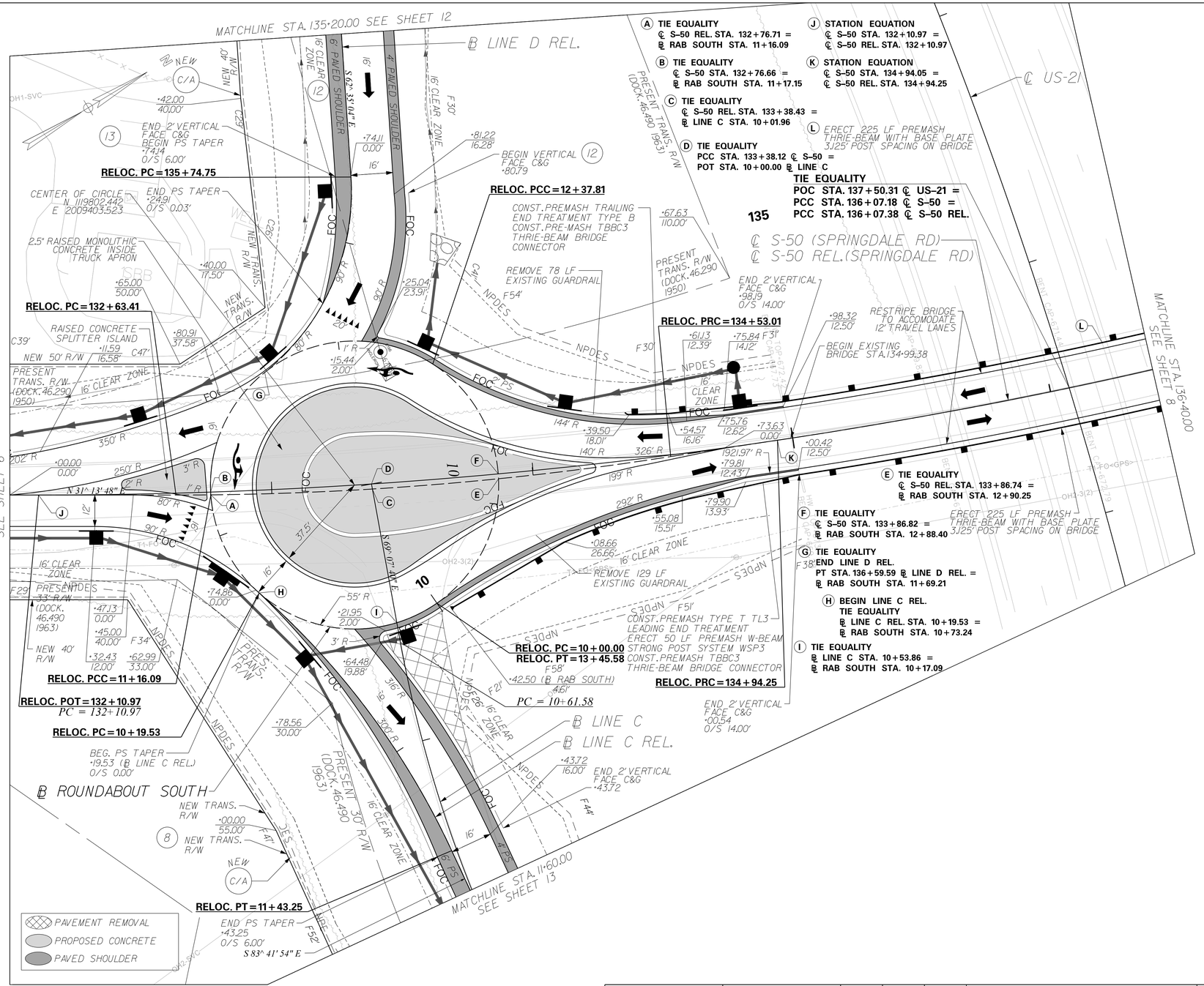
REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

PROFILE SHEET
S-50 (SPRINGDALE RD)
STA. 128+82.74 TO STA. 132+00.00
S-143 (CATAWBA CHURCH RD)
STA. 19+73.38 TO STA. 23+01.87

SCALE 1"= 20' HOR. 1" = 10' VER.

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	7



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0 20 40 60 80

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — BRIAN WAYNE NEES — No. 21580 — 10/1/2025

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

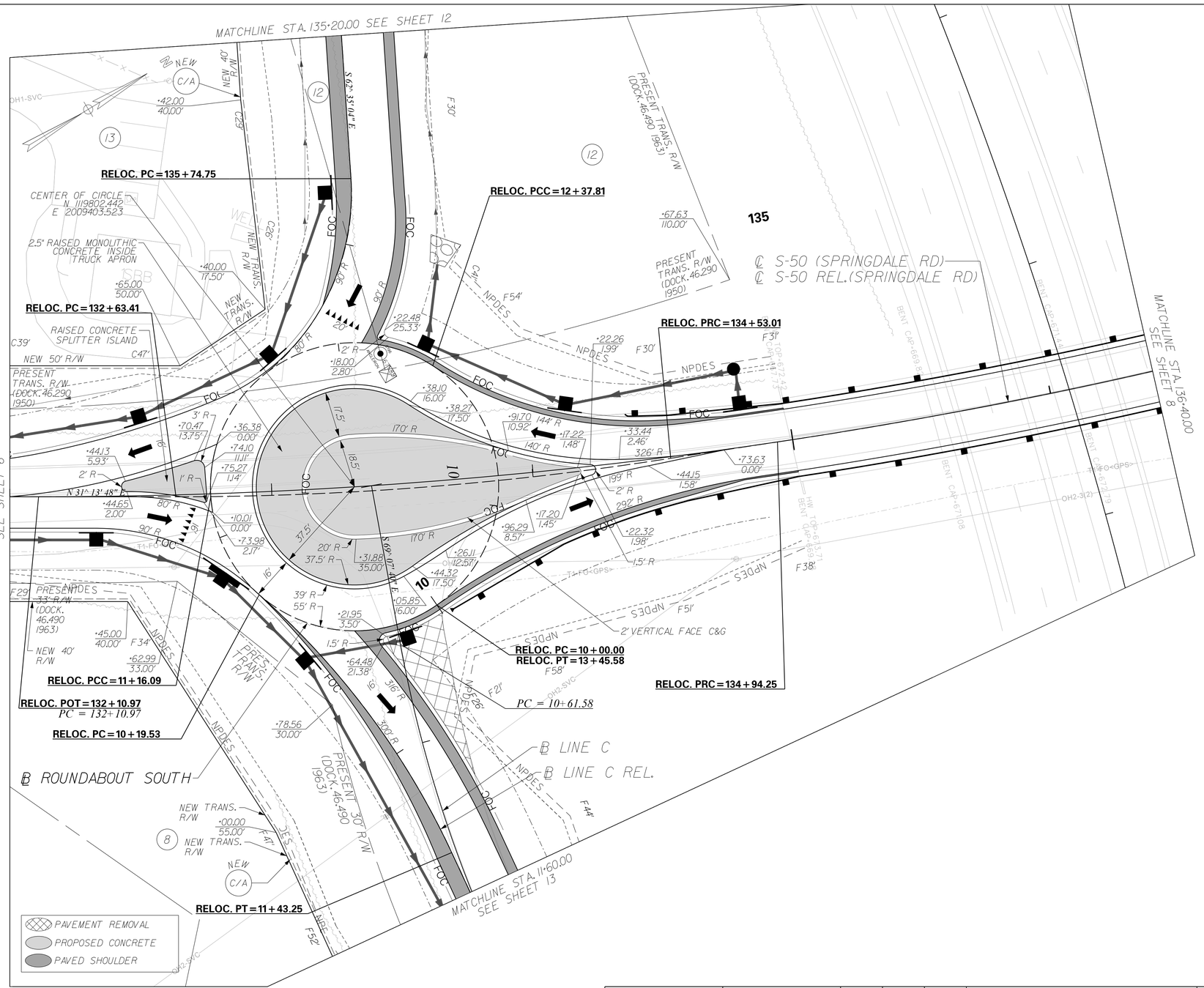
YORK COUNTY

PLAN SHEET
S-50 REL.
STA. 132+00.00 TO STA. 136+40.00
ROUNDABOUT SOUTH
LINE C REL., LINE D REL.

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/29/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\07 Plan.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	7A



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0 20 40 60 80

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — BRIAN WAYNE NEES — No. 21580 — 10/1/2025

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

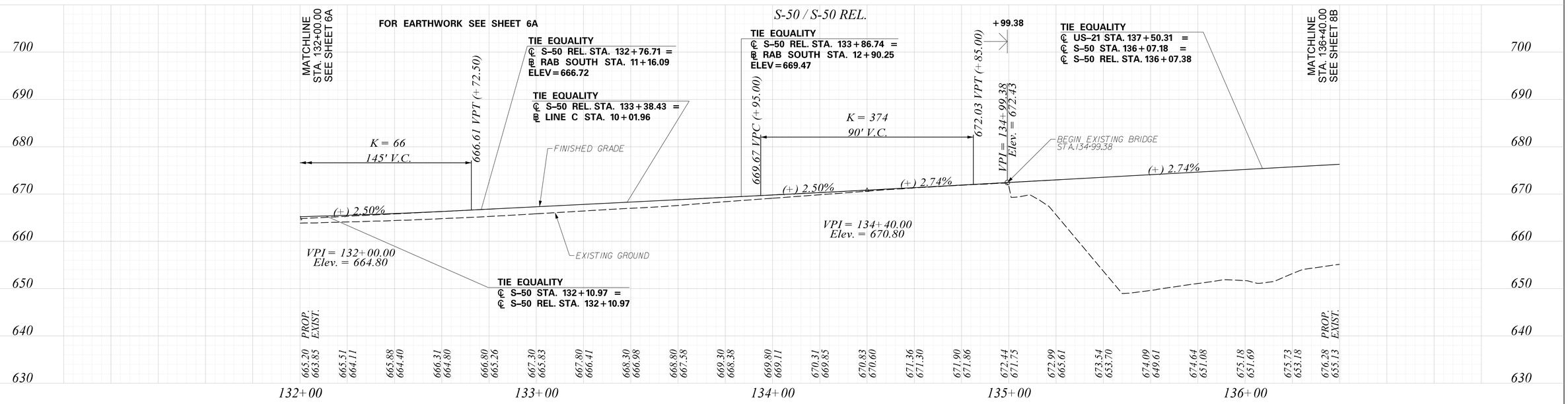
YORK COUNTY

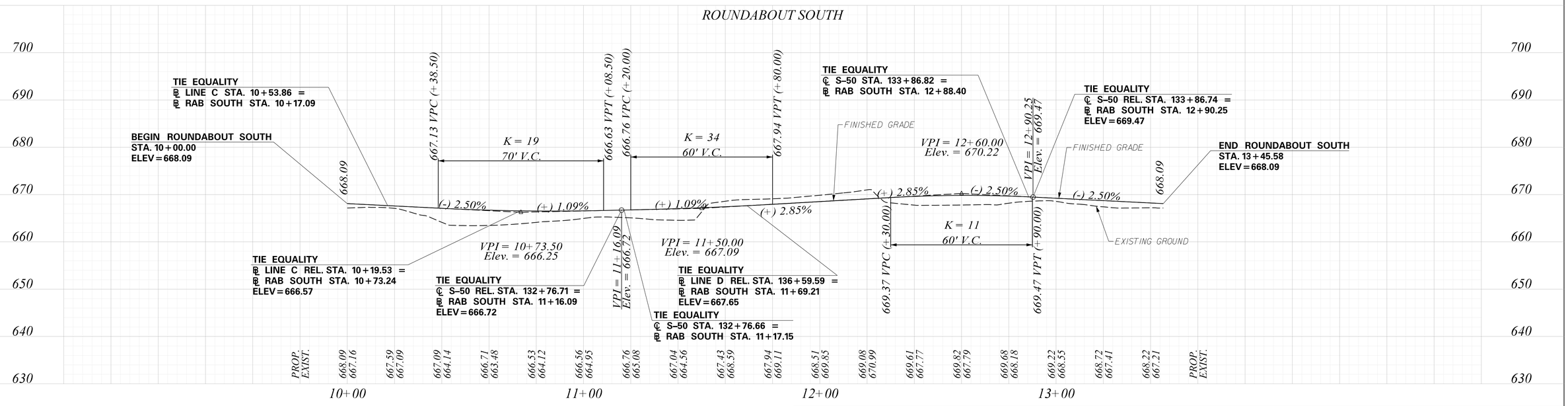
PLAN SHEET
S-50 REL.
STA. 132+00.00 TO STA. 136+40.00
ROUNDABOUT SOUTH
LINE C REL., LINE D REL.

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/29/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\07A Plan.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	7B





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SOUTH CAROLINA KCI TECHNOLOGIES, INC. No. C00651 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER 21580B3214AC4E0... No. 21580 10/1/2025 JOHN WAYNE REYNOLDS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

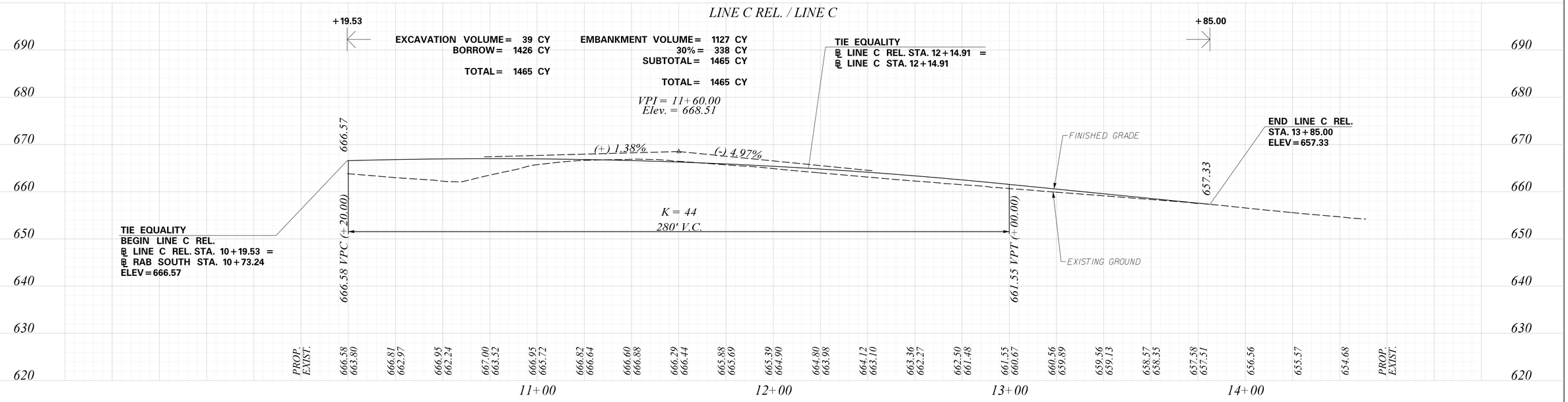
PROFILE SHEET
S-50 REL.
STA. 132+00.00 TO STA. 136+40.00
ROUNDABOUT SOUTH
STA. 10+00.00 TO STA. 13+45.58

SCALE 1"= 20' HOR. 1" = 10' VER.

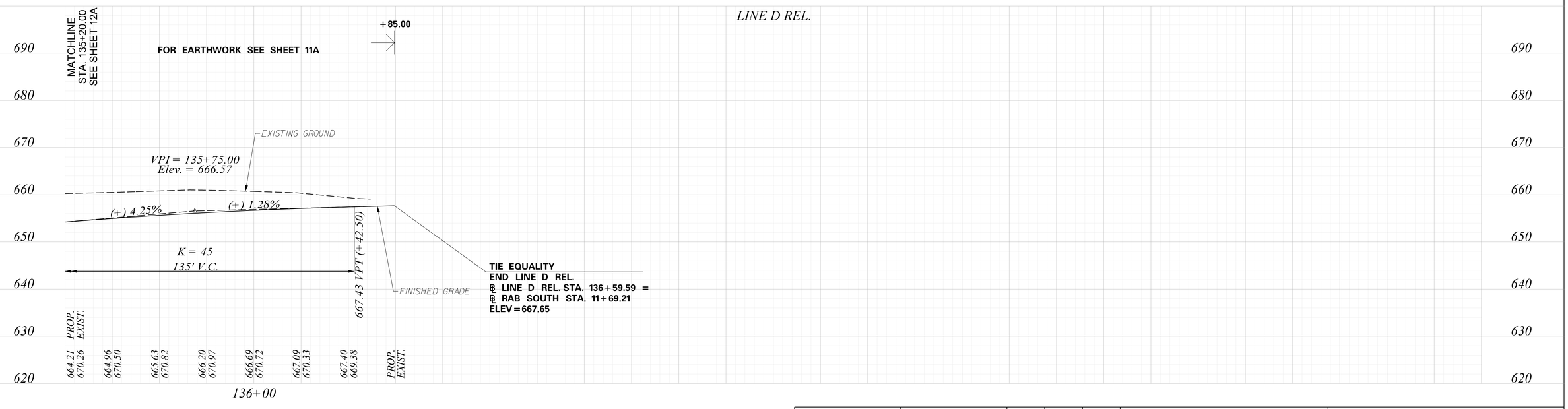
SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\251903786\2. Working\Roadway\DGN\Plan Sheets\07B Profile.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	7C

LINE C REL. / LINE C



LINE D REL.



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SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA — PROFESSIONAL ENGINEER — SEAL — No. 21580 — 10/1/2025 — KEVIN WAYNE KEYS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

PROFILE SHEET
LINE C REL.
STA. 10+19.53 TO STA. 13+85.00
LINE D REL.
STA. 135+20.00 TO STA. 136+59.59

SCALE 1"= 20' HOR. 1" = 10' VER.

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	8

(A) TIE EQUALITY
PCC STA. 138+84.41 ℄ S-50
POT STA. 19+71.03 ℄ LINE B

(B) TIE EQUALITY
℄ S-50 REL. STA. 139+08.09 =
℄ RAB NORTH STA. 12+48.79

(C) TIE EQUALITY
℄ S-50 STA. 139+15.10 =
℄ RAB NORTH STA. 12+75.11

(D) TIE EQUALITY
END LINE B REL.
℄ LINE B REL. STA. 19+98.40 =
℄ RAB NORTH STA. 10+12.11

(E) TIE EQUALITY
BEGIN LINE E REL.
POT STA. 15+56.35 ℄ LINE E REL. =
℄ RAB NORTH STA. 11+10.18

(F) TIE EQUALITY
℄ S-50 REL. STA. 140+17.90 =
℄ RAB NORTH STA. 10+67.37

(G) TIE EQUALITY
℄ S-50 STA. 140+09.29 =
℄ RAB NORTH STA. 10+42.61

(H) TIE EQUALITY
END LINE E REL.
℄ LINE A REL. STA. 16+90.12 =
℄ LINE E REL. STA. 16+90.02

(I) RELOC. PCC=10+80.81

(J) RELOC. PCC=11+61.62

(K) RELOC. PCC=12+53.60

(L) STATION EQUATION
℄ S-50 STA. 137+39.52 =
℄ S-50 REL. STA. 137+39.72

(M) BEGIN LANE TAPER
•48.02
0/S 16.00'

(N) END LANE TAPER
•90.02
0/S 12.00'

RELOC. PCC=137+39.72

RELOC. PRC=138+41.36

PCC = 15+76.46

PT = 16+90.02

PCC = 16+53.43

RELOC. PT=140+57.69

PT = 140+15.46

RELOC. PC=141+21.52

RELOC. PT=19+98.40

RELOC. PC=10+00.00

RELOC. PT=13+45.58

RELOC. PC=19+33.40

RELOC. PRC=142+15.07

MATCHLINE STA.136+40.00
SEE SHEET 7

MATCHLINE STA.17+20.00
SEE SHEET 10

MATCHLINE LINE A REL.STA.13+60.00
SEE SHEET 9

MATCHLINE STA.18+40.00
SEE SHEET 14

MATCHLINE STA.142+20.00
SEE SHEET 9

SEE SHEET 8B FOR S-50 REL.PROFILE
SEE SHEET 8B FOR ROUNDABOUT NORTH PROFILE
SEE SHEET 8C FOR LINE A REL. PROFILE
SEE SHEET 8C FOR LINE E REL. PROFILE
SEE SHEET 8D FOR LINE B REL.PROFILE

PAVEMENT REMOVAL
PROPOSED CONCRETE
PAVED SHOULDER

KCI TECHNOLOGIES
ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

KCI TECHNOLOGIES, INC. No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 21580 — 10/1/2025 — BRIAN WAYNE HESS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

PLAN SHEET
S-50 REL. (SPRINGDALE RD)
STA. 136+40.00 TO STA. 142+20.00
ROUNDABOUT NORTH
LINE A REL, LINE B REL, LINE E REL

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/23/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\2519037862. Working\Roadway\DGN\Plan Sheets\08 Plan.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	8A

MATCHLINE STA. 17+20.00 SEE SHEET 10

MATCHLINE STA. 136+40.00 SEE SHEET 7

MATCHLINE LINE A REL. STA. 13+60.00 SEE SHEET 9

MATCHLINE STA. 142+20.00 SEE SHEET 9

MATCHLINE STA. 18+40.00 SEE SHEET 14

℄ LINE E REL.

℄ LINE A

℄ LINE A REL.

℄ LINE B REL.

℄ ROUNDABOUT NORTH

℄ S-50 (SPRINGDALE RD)

℄ S-50 REL. (SPRINGDALE RD)

PRESENT 40' R/W (DOCK. 46,490 196.3)

PRESENT TRANS. R/W (DOCK. 46,490 196.3)

PRESENT 50' R/W (DOCK. 46,490 196.3)

PRESENT 33' R/W (DOCK. 46,490 196.3)

NEW TRANS. R/W

NEW 70' R/W

CENTER OF CIRCLE N 1120403.250 E 2009570.424

PCC = 15+76.46

PT = 16+90.02

PCC = 16+53.43

RELOC. PCC = 137+39.72

RELOC. PRC = 138+41.36

RELOC. PT = 140+57.69

PT = 140+15.46

RELOC. PC = 141+21.52

RELOC. PT = 19+98.40

RELOC. PC = 10+00.00

RELOC. PT = 13+45.58

RELOC. PC = 19+33.40

RELOC. PRC = 142+15.07

N 18° 32' 41" E

N 7° 05' 48" E

N 48° 09' 30" W

2' VERTICAL FACE C&G

18" RCP

NPDES

FOC

C/A

PAVEMENT REMOVAL

PROPOSED CONCRETE

PAVED SHOULDER

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

0 20 40 60 80

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 21580 — 10/1/2025 — BRIAN WAYNE KEYS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

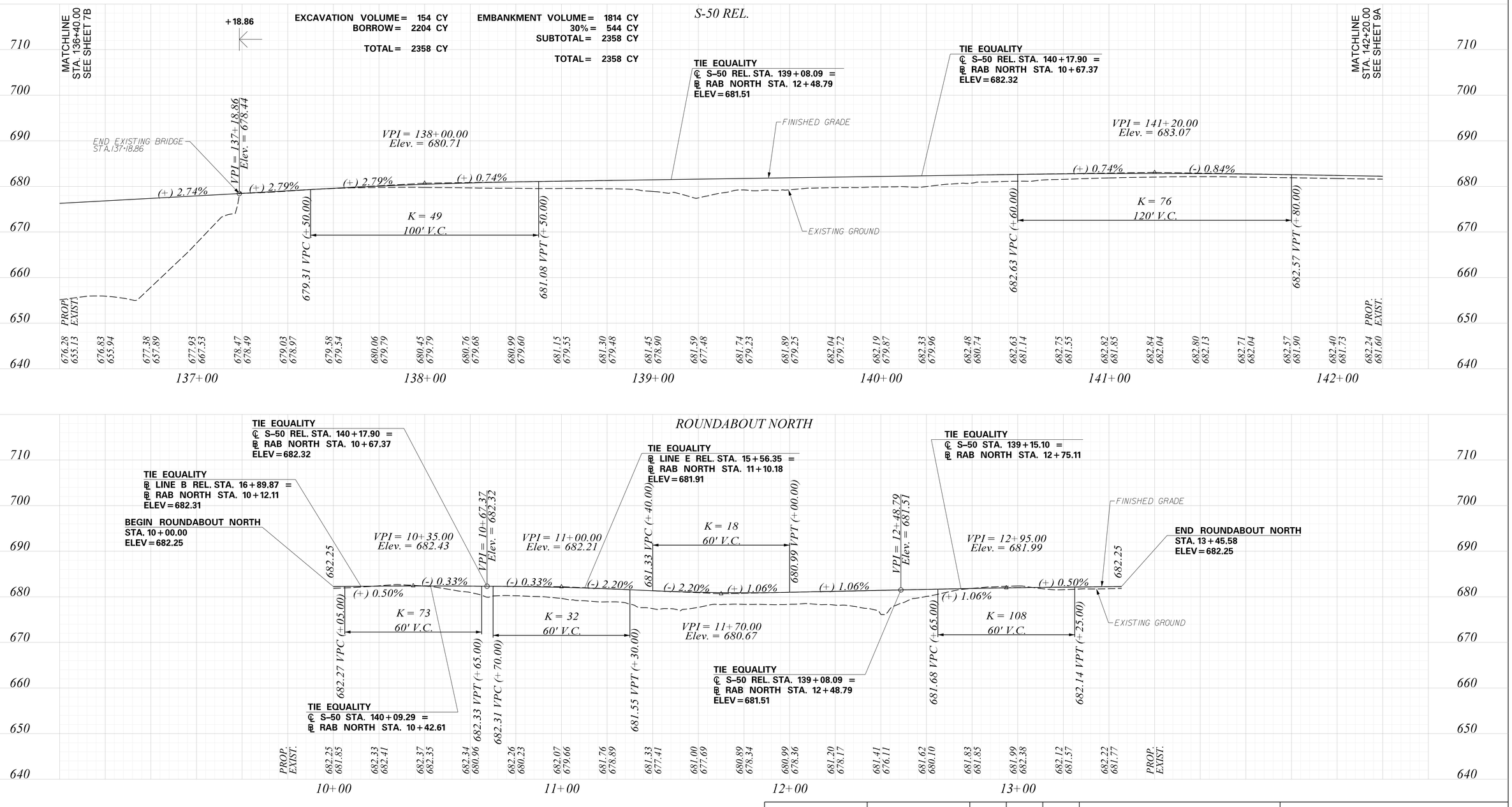
YORK COUNTY

PLAN SHEET
S-50 REL. (SPRINGDALE RD)
STA. 136+40.00 TO STA. 142+20.00
ROUNDABOUT NORTH
LINE A REL, LINE B REL, LINE E REL

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\08A Plan.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	8B



KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 21580 — 10/1/2025 — JOHN WAYNE REEVES

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

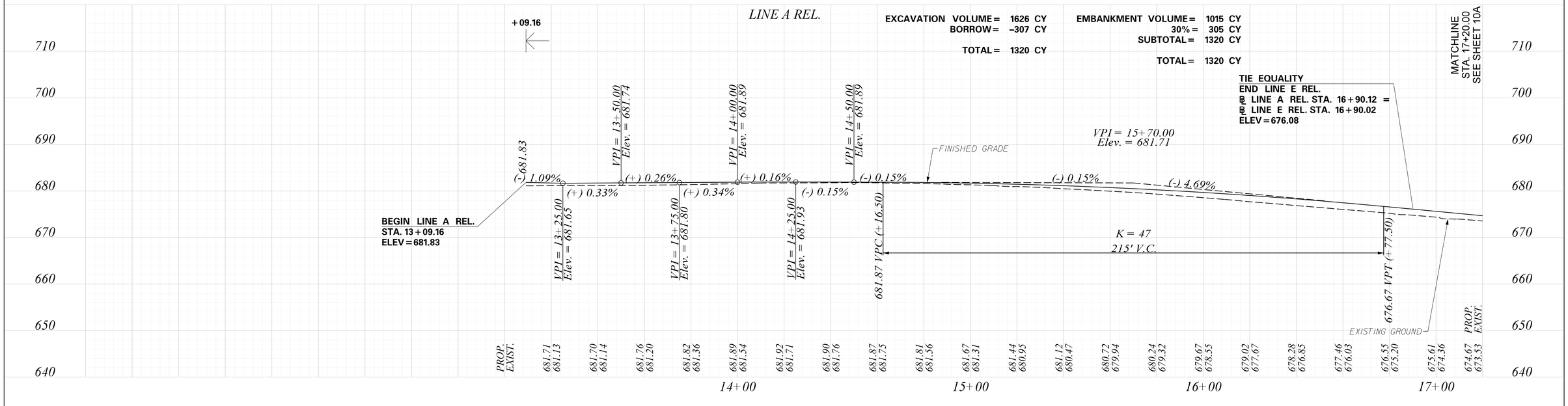
YORK COUNTY

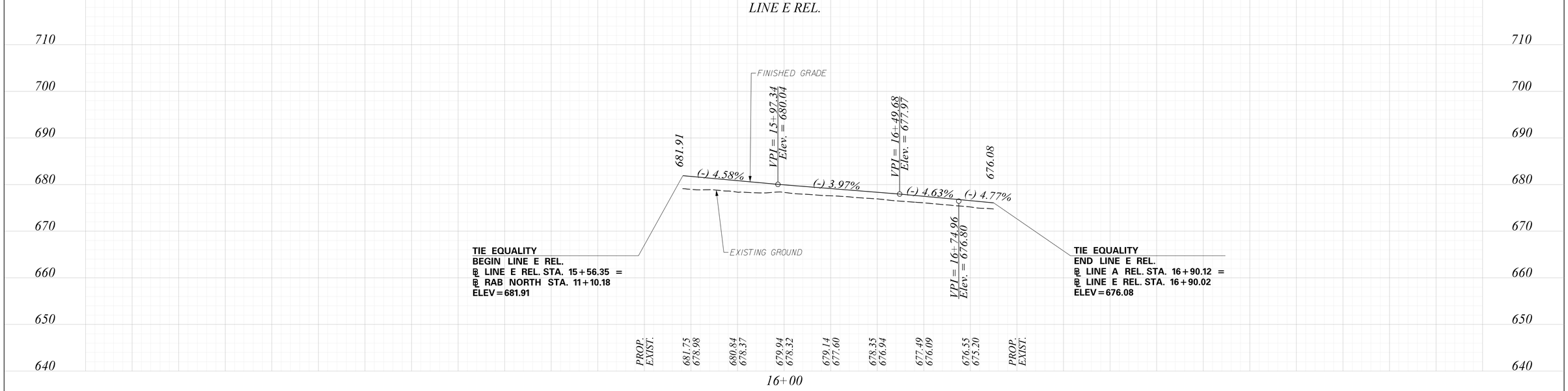
PROFILE SHEET
S-50 REL.
STA. 136+40.00 TO STA. 142+20.00
ROUNDABOUT NORTH
STA. 10+00.00 TO STA. 13+45.58

SCALE 1"= 20' HOR. 1" = 10' VER.

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\08B Profile.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	8C





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KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 21580 — 10/1/2025 — BRIAN WAYNE KEYS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

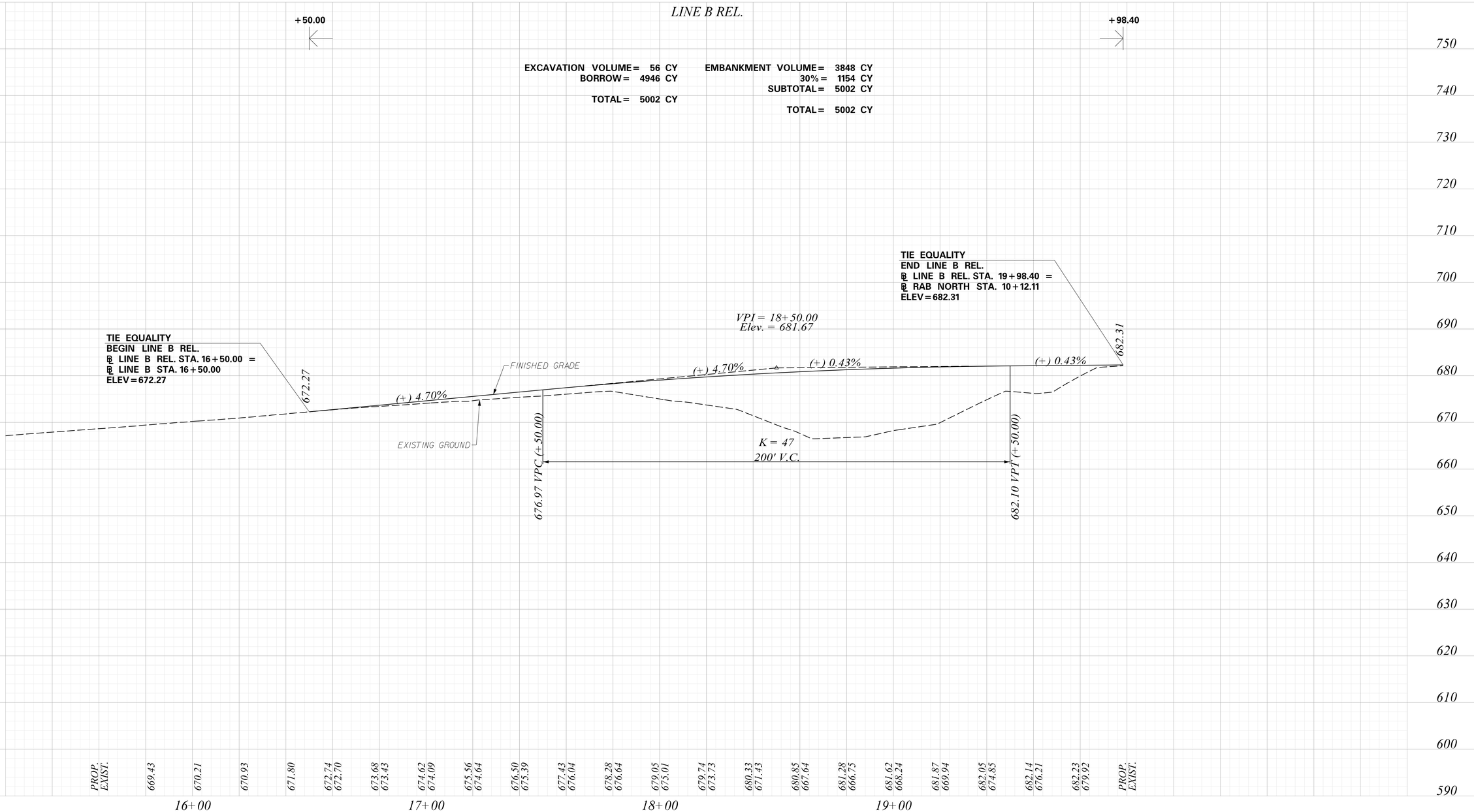
YORK COUNTY

PROFILE SHEET
LINE A REL.
STA. 13+09.16 TO STA. 17+20.00
LINE E REL.
STA. 15+56.35 TO STA. 16+99.24

SCALE 1"= 20' HOR. 1" = 10' VER.

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\08C Profile.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	8D



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SOUTH CAROLINA KCI TECHNOLOGIES, INC. No. C00651 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 21880 10/1/2025 BRIAN WAYNE KEYS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

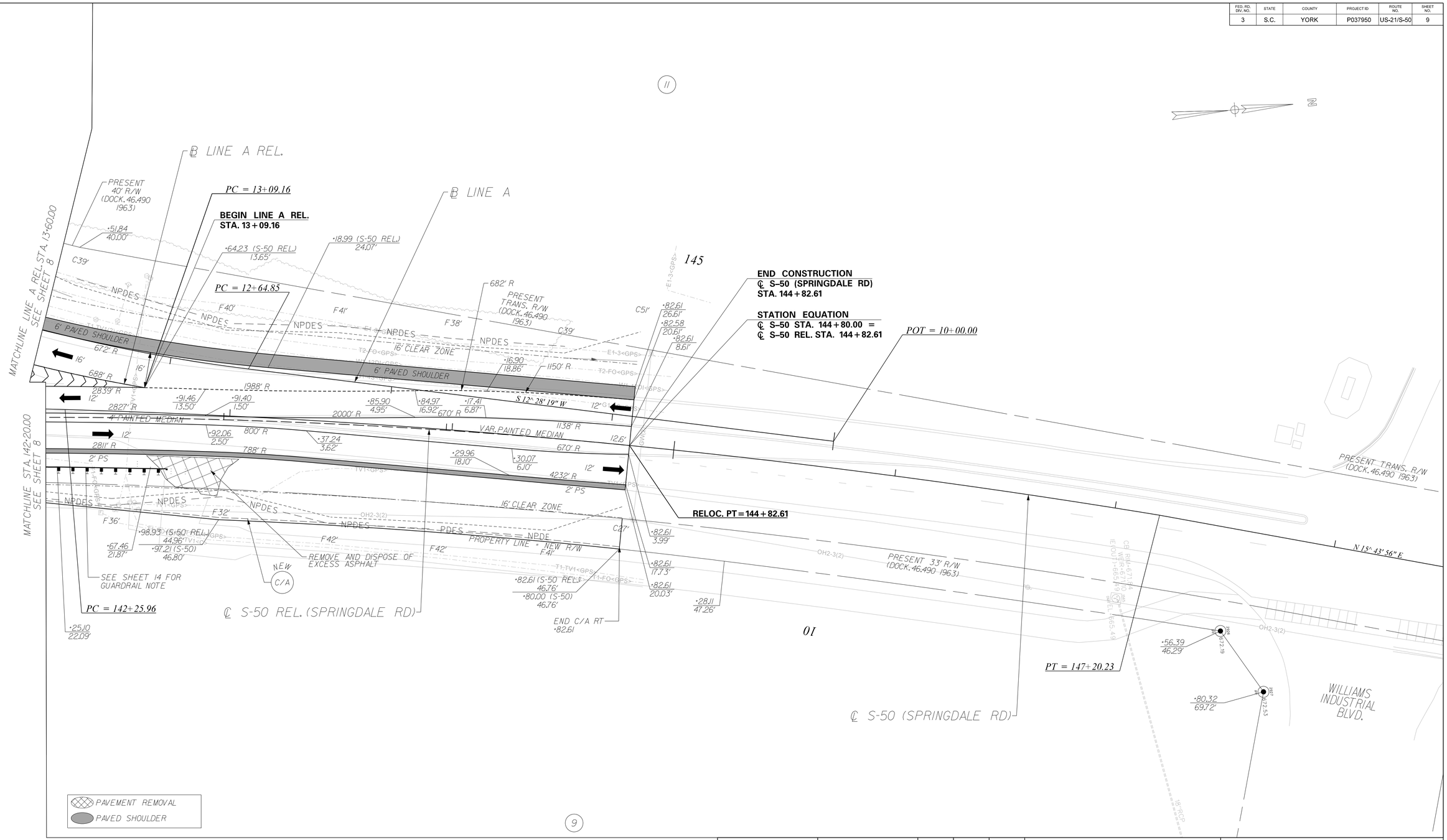
YORK COUNTY

PROFILE SHEET
LINE B REL.
STA. 16+50.00 TO STA. 19+98.40

SCALE 1"= 20' HOR. 1" = 10' VER.

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\08D Profile.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	9



SEE SHEET 9A FOR S-50 REL. PROFILE
SEE SHEET 8C FOR LINE A REL. PROFILE

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0 20 40 60 80

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 21580 — 10/1/2025 — BRIAN WAYNE REES

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

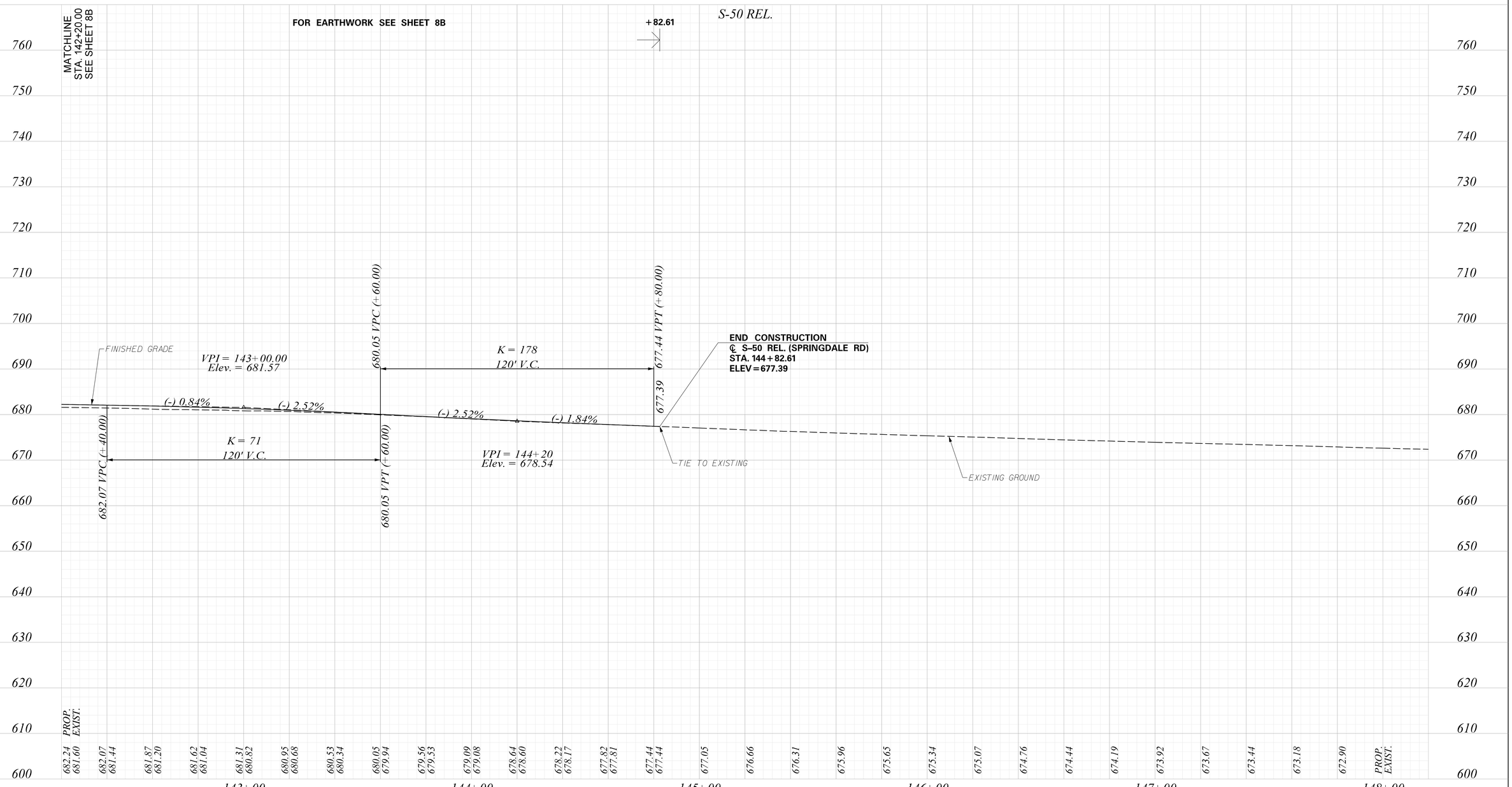
YORK COUNTY

PLAN SHEET
REL. S-50 (SPRINGDALE RD)
STA. 142+20.00 TO STA. 144+82.61
REL. LINE A

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\09 Plan.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	9A



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SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

Digitally signed by BRIAN WAYNE REES
SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 21580
10/1/2025

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

PROFILE SHEET
S-50 REL.
STA. 142+20.00 TO STA. 144+82.61

SCALE 1"= 20' HOR. 1" = 10' VER.

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\09A Profile.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	10

N

PAVEMENT REMOVAL
PAVED SHOULDER

PT = 21+73.50
END LINE A REL.
STA. 21+73.50

℄ LINE A
℄ LINE A REL.

PRESENT 60' R/W (DOCK. 46.490 1963)
PRESENT TRANS. R/W (DOCK. 46.490 1963)

30
11

6' PAVED SHOULDER
16' CLEAR ZONE
4' PAVED SHOULDER
300' TAPER (25:1)
6' PAVED SHOULDER 720' R
736' R
748' R
210' ACCEL LANE
BEGIN LANE TAPER
END LANE TAPER
MATCHLINE STA. 17+20.00 SEE SHEET 8

C34' C40' C48' C59' C66' C72' C65' C62' C55' C36' C38' C37'
E1-3<GPS> T2-FO<GPS> W1-16DI<GPS> W1-12DI<GPS> G1-4S<GPS> T1-TV1(2)<GPS> TV1<GPS> T1-TV1<GPS> T1-FO<GPS> T1-HO<GPS>
NPDES F8' F11' F25' F30'
STRUCTURE NOT FOUND
135
20 20
℄ US-21

SEE SHEET 10A FOR LINE A PROFILE

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ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

0 20 40 60 80

KCI TECHNOLOGIES, INC. No. C00651 CERTIFICATE OF AUTHORIZATION

No. 21580 10/1/2025

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

PLAN SHEET
LINE A REL.
STA. 17+20.00 TO STA. 21+73.50

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/23/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\10 Plan.dgn

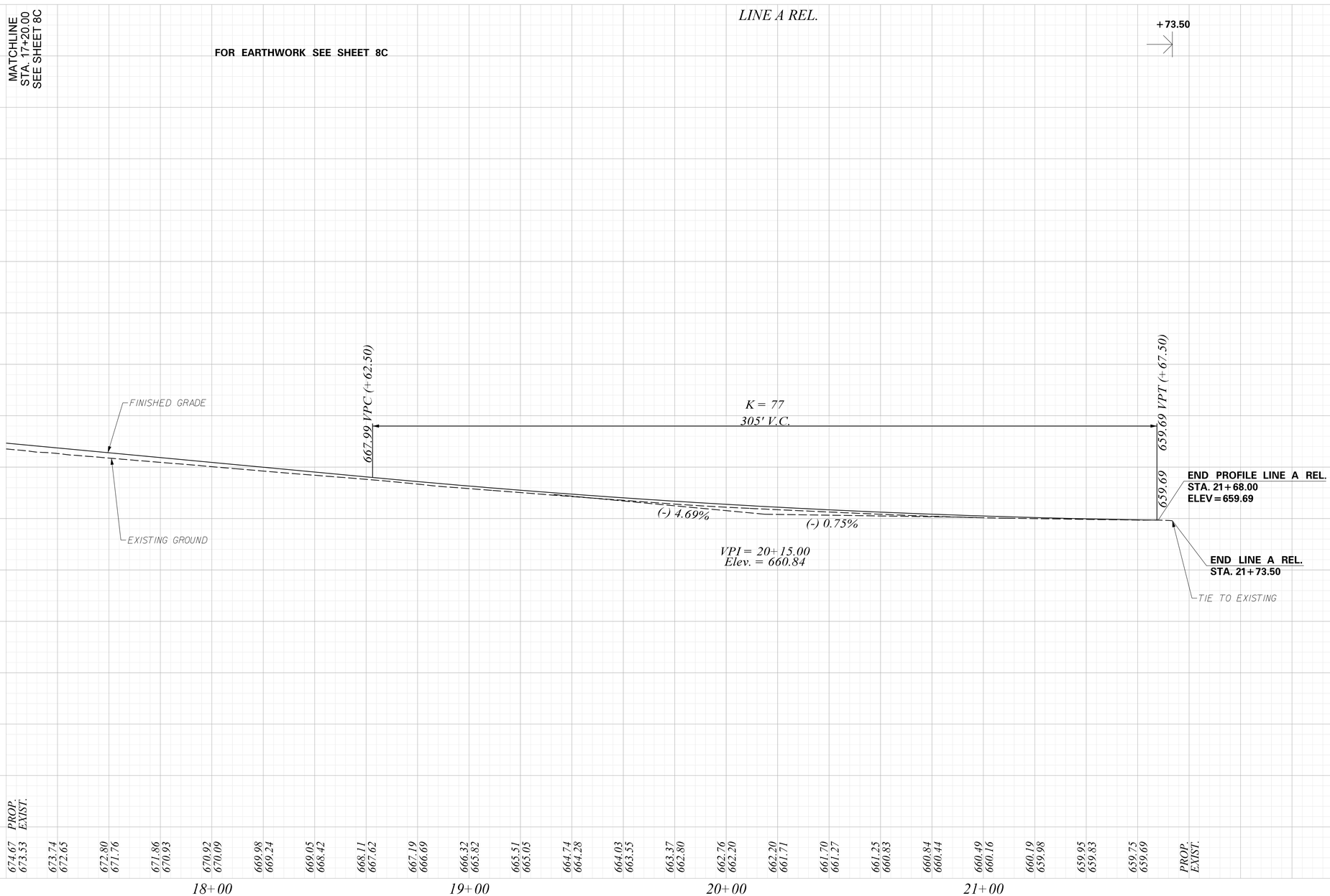
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	10A

LINE A REL.

+73.50

MATCHLINE
STA. 17+20.00
SEE SHEET 8C

FOR EARTHWORK SEE SHEET 8C



PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\10A Profile.dgn
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
SCALE : 20.000 ft / in.

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SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — DocuSigned by: 8B83214AC483... — No. 21580 — 10/1/2025 — JOSHUA WAYNE REES

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

PROFILE SHEET
LINE A REL.
STA. 17+20.00 TO STA. 21+73.50

SCALE 1"= 20' HOR. 1" = 10' VER.

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	11

N

125

130

PRESENT 60' R/W (DOCK. 46,490 1963)

PRESENT 100' R/W (DOCK. 46,490 1963)

BEGIN CONSTRUCTION
BEGIN MILLING AND RESURFACING
℄ US–21 STA. 125 + 12.56

℄ S-143 (CATAWBA CHURCH RD)

℄ US-21

TIE EQUALITY
BEGIN LINE D REL.
POT STA. 126 + 00.00 ℬ LINE D REL. =
POT STA. 126 + 00.00 ℄ US–21, 30.90' RT

10

50

130

S 89^ 25' 23" E

12' EXISTING

12' EXISTING

40000' R

5%

6.00'

FOC

ℬ LINE D REL.

4' SIDEWALK

404' DECEL LANE

16'

S 83^ 51' 53" E

PAVED GORE

END 2' VERTICAL FACE C&G
•08.00
0/S 7.50'

6' PAVED SHOULDER

10' CLEAR ZONE

18'

S 68^ 03' 07" E

MATCHLINE STA.130+00.00
SEE SHEET 12

RETAIN EXISTING SIDEWALK

PRESENT R/W (DOCK. 46,490 1963)

BEGIN 4' SIDEWALK (TIE TO EXISTING)
•45.23
0/S 38.41'

PC = 10+00.00

BEGIN 2' VERTICAL FACE C&G
BEGIN PS TAPER (TIE TO EXISTING)
•12.56
0/S 30.59'

NEW TRANS. R/W F21'

•77.78
45.16'

•77.78
50.00'

•44.84
42.39'

•78.11
41.21'

•77.78
45.19'

•09.24
13.83'

•09.29
17.83'

•80.47
17.83'

•80.34 (LINE D REL.)
19.83'

END PS TAPER
•05.00
0/S 6.00'

•80.84 (LINE D REL. ℬ)
25.00'

F21'

END 4' SIDEWALK
•80.47
0/S 13.83'

F19'

F20'

NPDES

BEGIN 2' VERTICAL FACE C&G
•00.00
0/S 10.50'

•00.00
9.00'

F23'

NEW 25' R/W

REMOVE EXISTING SIDEWALK AND C&G

RELOC. POT = 50 + 00.00

BEGIN CONSTRUCTION
ℬ COUNTY RD
STA. 50 + 00.00

•83.77 (LINE D REL. ℬ)
55.00'

RELOC. PRC = 53 + 31.55

F15'

F16'

PRESENT 33' R/W (DOCK. 46,290 1950)

PT = 13+44.35

RELOC. PCC = 51 + 65.67

RELOC. PC = 51 + 41.45

END 2' VERTICAL FACE C&G
•91.35
0/S 10.50'

•64.90 (LINE D REL. ℬ)
55.00'

ℬ COUNTY RD

REMOVE EXISTING SIDEWALK AND C&G

PC = 14+44.76

RELOC. PRC = 52 + 83.87

•37.57
145.74'

•49.16
150.00'

•80.68
150.00'

NEW 150' R/W

PROPERTY LINE - NEW R/W

S 30E

AC

•05.79
33.00'

•91.20
50.00'

REMOVE EXISTING SIDEWALK, CATCH BASIN, AND C&G

MATCHLINE STA.53+40.00
SEE SHEET 12

PAVEMENT/SIDEWALK REMOVAL
MILLING & RESURFACING
PAVED SHOULDER

Ⓐ **TIE EQUALITY**
ℬ COUNTY RD STA. 53 + 26.02 =
℄ S–143 STA. 14 + 98.76
(CATAWBA CHURCH RD)

16 PROPERTIES 16 & 17 - SAME OWNER 17 18 19 20 21

SEE SHEET IIA FOR LINE D REL. PROFILE
SEE SHEET IIA FOR COUNTY ROAD PROFILE

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0 20 40 60 80

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 21580 — BRIAN WAYNE KENNEDY — 10/1/2025

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

PLAN SHEET
LINE D REL.
STA. 126+00.00 TO STA. 130+00.00
S-143 (CATAWBA CHURCH RD)
US 21, COUNTY RD

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\11 Plan.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	11A

LINE D REL.

EXCAVATION VOLUME = 9215 CY
BORROW = –9077 CY
TOTAL = 138 CY

EMBANKMENT VOLUME = 106 CY
30% = 32 CY
SUBTOTAL = 138 CY
TOTAL = 138 CY

TIE EQUALITY
BEGIN LINE D REL.
@ LINE D REL. STA. 126+00.00 =
℄ US–21 STA. 126+00.00, 30.90′ RT
ELEV = 662.48

+00.00

662.48
(+) 0.35%
VPI = 126+25.00
Elev. = 662.57
(+) 0.10%
(-) 0.12%
VPI = 126+50.00
Elev. = 662.60
VPI = 126+75.00
Elev. = 662.57
(-) 0.37%
(-) 1.34%
VPI = 127+00.00
Elev. = 662.48
VPI = 127+25.00
Elev. = 662.14
(-) 1.07%
(-) 0.75%
VPI = 127+50.00
Elev. = 661.88
VPI = 127+75.00
Elev. = 661.69
(-) 1.05%
(-) 0.94%
VPI = 128+00.00
Elev. = 661.43
VPI = 128+25.00
Elev. = 661.19
(-) 0.82%
(-) 1.52%
VPI = 128+50.00
Elev. = 660.99
VPI = 128+75.00
Elev. = 660.61
(-) 1.41%
(-) 1.38%
VPI = 129+00.00
Elev. = 660.25
EXISTING GROUND
FINISHED GRADE
VPI = 129+25.00
Elev. = 659.91
(-) 1.14%
(-) 1.09%
VPI = 129+50.00
Elev. = 659.62
VPI = 129+75.00
Elev. = 659.35
(-) 1.16%
VPI = 130+00.00
Elev. = 659.06

MATCHLINE
STA. 130+00.00
SEE SHEET 12A

	PROP.	662.48	662.56	662.59	662.59	662.55	662.48	662.21	661.98	661.80	661.64	661.43	661.24	661.07	660.83	660.54	660.25	659.98	659.74	659.51	659.29	659.06	PROP.
	EXIST.	662.49	662.53	662.51	662.51	662.50	662.38	662.23	662.13	661.99	662.58	662.27	662.02	661.70	661.52	660.98	661.11	660.60	660.19	660.89	661.33	662.07	EXIST.

126+00 127+00 128+00 129+00 130+00

COUNTY ROAD

EXCAVATION VOLUME = 344 CY
BORROW = –171 CY
TOTAL = 173 CY

EMBANKMENT VOLUME = 133 CY
30% = 40 CY
SUBTOTAL = 173 CY
TOTAL = 173 CY

BEGIN CONSTRUCTION
@ COUNTY RD
STA. 50+00.00
ELEV = 662.46

+00.00

662.46
VPI = 51+20.00
Elev. = 662.10
(-) 0.30%
(-) 0.70%
662.19 VPC (+90.00)
K = 150
60′ V.C.
661.89 VPT (+50.00)
FINISHED GRADE
EXISTING GROUND
661.19 VPC (+50.00)
K = 48
60′ V.C.
661.15 VPT (+10.00)
(-) 0.70%
(+) 0.56%
VPI = 52+80.00
Elev. = 660.98
661.61

+92.33

TIE EQUALITY
END CONSTRUCTION
@ COUNTY RD STA. 53+92.33 =
℄ S–143 (CATAWBA CHURCH RD)
STA. 15+61.87
ELEV = 661.61

	PROP.	662.46	662.40	662.34	662.28	662.22	662.16	662.07	661.96	661.82	661.68	661.54	661.40	661.26	661.13	661.07	661.10	661.20	661.32	661.43	661.54	PROP.
	EXIST.	661.68	661.58	661.78	662.13	661.97	661.57	661.42	661.46	661.45	661.37	661.30	661.16	661.01	660.92	660.76	660.68	660.92	661.14	661.27	661.26	EXIST.

50+00 51+00 52+00 53+00

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SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA PROFESSIONAL ENGINEER — SEAL 053214AC485 — No. 21580 — 10/1/2025 — JOHN WAYNE KEYS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

PROFILE SHEET
LINE D REL.
STA. 126+00.00 TO STA. 130+00.00
COUNTY ROAD
STA. 50+00.00 TO STA. 53+92.33

SCALE 1"= 20' HOR. 1" = 10' VER.

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\11A Profile.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	12

END CONSTRUCTION
END MILLING AND RESURFACING
℄ US–21 STA. 133+13.70

PC = 132+93.80

PT = 22+43.65

PRESENT 60' R/W (DOCK. 46.490 1963)

PRESENT 100' R/W (DOCK. 46.490 1963)

℄ US-21

℄ S-143 (CATAWBA CHURCH RD)

℄ COUNTY RD

℄ LINE D REL.

PRESENT TRANS. R/W (DOCK. 46.490 1963)

PRESENT 33' R/W (DOCK. 46.290 1950)

PROPERTY LINE = NEW R/W

NEW 40' R/W

NEW 45' R/W

12' EXISTING

12' EXISTING

300' TAPER (25:1)

50' TAPER (25:1)

40' DECEL LANE

6' PAVED SHOULDER

10' PAVED SHOULDER

4' PAVED SHOULDER

6' PAVED SHOULDER

4' PAVED SHOULDER

6' PAVED SHOULDER

32' CLEAR ZONE

16' CLEAR ZONE

16' CLEAR ZONE

16' CLEAR ZONE

TAPER

CUL-DE-SAC

NPDES

2' PS

G1-4S<GPS>

W1-16DI<GPS>

T1.1V(2I)<GPS>

T1FO<GPS>

OH1-1.T1.TV1

S 89° 25' 23" E

S 62° 35' 04" E

S 83° 57' 53" E

RELOC. PC = 131+13.63

RELOC. PT = 133+42.04

PCC = 16+24.76

PCC = 18+15.16

PT = 19+70.56

BEGIN CONSTRUCTION
END 1.75" MILLING.
℄ S–143 (CATAWBA CHURCH RD)
STA. 19+73.38

END CONSTRUCTION
℄ COUNTY RD
STA. 53+92.33
BEGIN CONSTRUCTION
℄ S–143 (CATAWBA CHURCH RD)
STA. 15+61.87

END CONSTRUCTION
BEGIN 1.75" MILLING
℄ S–143 (CATAWBA CHURCH RD)
STA. 17+00.00

TIE EQUALITY
PT STA. 53+92.33 ℄ COUNTY RD =
POC STA. 15+61.87 ℄ S–143
(CATAWBA CHURCH RD)

1.75" UNIFORM MILLING
REPLACE WITH 200 LBS/SY
SURFACE COURSE TYPE B

TIE PAVED SHOULDER TO EXISTING EDGE OF ROADWAY

TIE PAVED SHOULDER TO EXISTING EDGE OF ROADWAY

BEG. PS TAPER
•73.38
O/S 10.25'

END C/A LT
•34.49

NEW C/A

NEW C/A

MATCHLINE STA. 130+00.00 SEE SHEET 11

MATCHLINE STA. 53+40.00 SEE SHEET 11

MATCHLINE STA. 135+20.00 SEE SHEET 7

MATCHLINE STA. 19+80.00 SEE SHEET 6

•91.81 123.86'
•96.77 100.00'
•94.49 100.00'
•13.70 43.11'
•13.69 53.11'
•28.72 40.98'
•30.92 (℄ US-21) 56.74'
•31.06 20.00'
•13.30 (℄ US-21) 49.02'
•63.12 16.00'
•13.12 18.00'
•28.46 100.00'
•66.06 32.73'
•39.30 33.00'
•23.66 40.00'
•84.44 9.00'
•20.90 33.30'
•93.65 15.00'
•58.94 11.00'
•00.00 10.33'
•00.00 12.74'
•86.87 9.00'
•65.53 7.96'
•83.3 15.00'
•63.62 9.93'
•54.96 29.35'
•54.86 33.00'
•68.04 33.00'
•68.12 29.69'
•24.79 15.00'
•60.68 33.00'
•59.69 45.00'
•90.00 33.00'
•90.00 45.00'

C86' C38' C35' C32' C34' C36' C38' C54' C35' C33' C30' C29' C31' C29' F28' F18' F21' F17' F26' F16'

12 135 13 23 24 25 21 22

130

PAVEMENT REMOVAL
MILLING & RESURFACING
PAVED SHOULDER

SEE SHEET IIA FOR COUNTY ROAD PROFILE
SEE SHEET I2A FOR LINE D REL. PROFILE

KCI TECHNOLOGIES
ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

0 20 40 60 80

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — No. 21580 — 10/1/2025 — REGISTERED PROFESSIONAL ENGINEER — BRIAN WAYNE REES

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

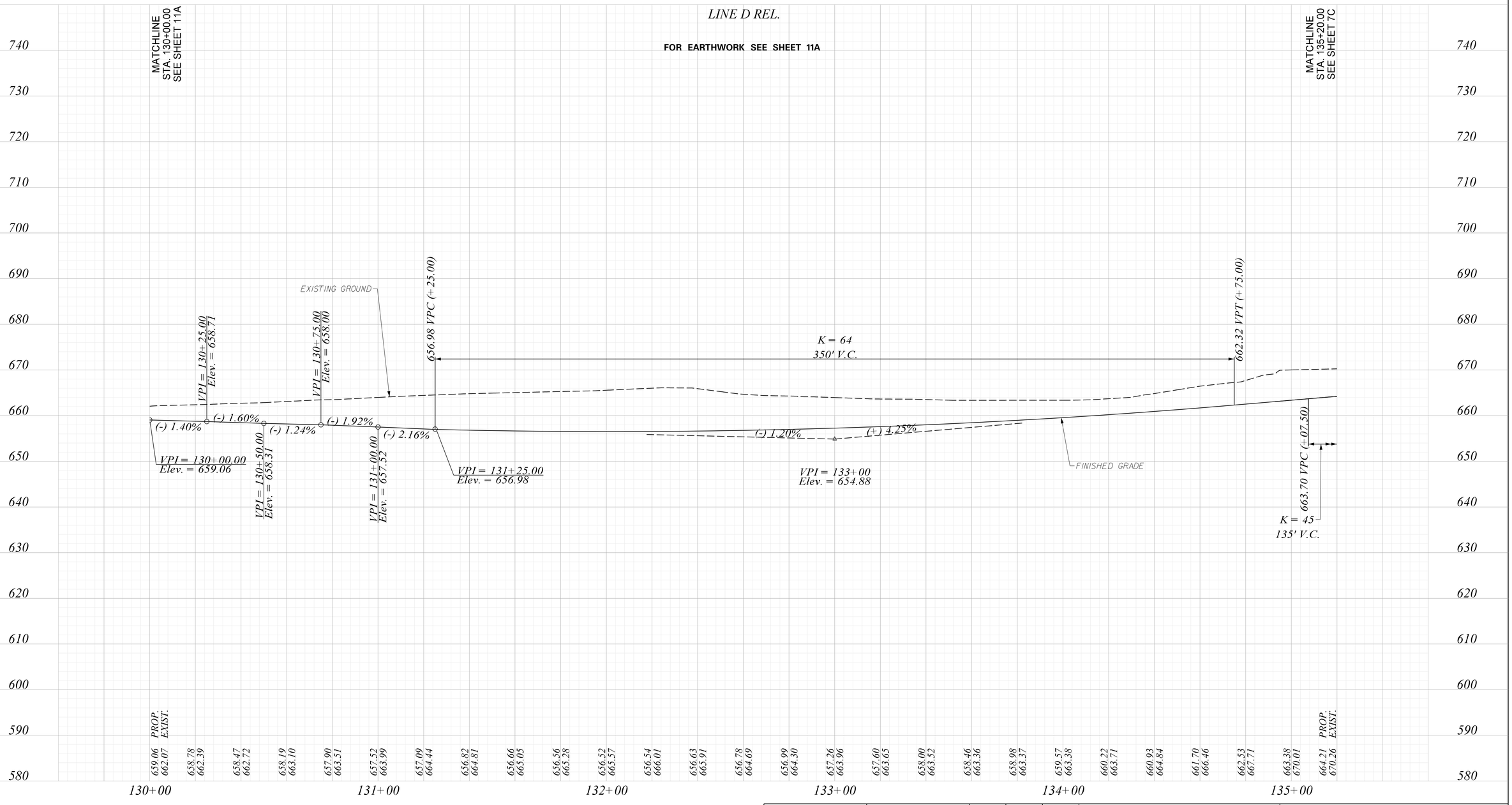
PLAN SHEET
LINE D REL.
STA. 130+00.00 TO STA. 135+20.00
S-143 (CATAWBA CHURCH RD)
US 21, COUNTY RD

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02. Working\Roadway\DGN\Plan Sheets\12 Plan.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	12A



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SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 21580 — 10/1/2025 — JOHN WAYNE KEYS III

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

PROFILE SHEET
LINE D REL.
STA. 130+00.00 TO STA. 135+20.00

SCALE 1"= 20' HOR. 1" = 10' VER.

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\20192519037862. Working\Roadway\DGN\Plan Sheets\12A Profile.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	13

N

MATCHLINE STA. 11+60.00
SEE SHEET 7

MATCHLINE
SEE SHEET 14

MATCHLINE
SEE SHEET 15

NPDES

TIE EQUALITY
PT STA. 12+14.91 ℄ LINE C REL. =
PT STA. 12+14.91 ℄ LINE C

BEG. PS TAPER
•80.00
0/S 20.00'

END PS TAPER
•85.00
0/S 16.11'

END LINE C REL.
STA. 13+85.00

F39'
F38'
F36'
F28'
F21'

16' CLEAR ZONE

4' PAVED SHOULDER

16'

S 87^ 02' 17" E

S 83^ 41' 54" E

6' PAVED SHOULDER

16' CLEAR ZONE

NPDE

F11'

F7'

PRESENT 30' R/W
(DOCK. 46.490 1963)

℄ LINE C

END C/A RT
•65.00
30.00'

END PS TAPER
•85.00
0/S 0.37'

5784
E53.92
0.501P

F37'

BEG. PS TAPER
•35.00
0/S 6.00'

F46' NEW TRANS. R/W

NEW TRANS. R/W F46'

NEW C/A
•24.38
60.00'

RELOC. PC = 11+90.00

RELOC. PC = 13+65.33
PC = 13+65.33

RELOC. PT = 14+51.06
PT = 14+51.06

BEGIN 2' VF C&G
END PS TAPER
•90.00
0/S 6.00'

℄ LINE C REL.

8 6 5 7

PAVEMENT REMOVAL
PAVED SHOULDER

SEE SHEET 7C FOR LINE C/LINE C REL. PROFILE

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SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 21580
10/1/2025

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

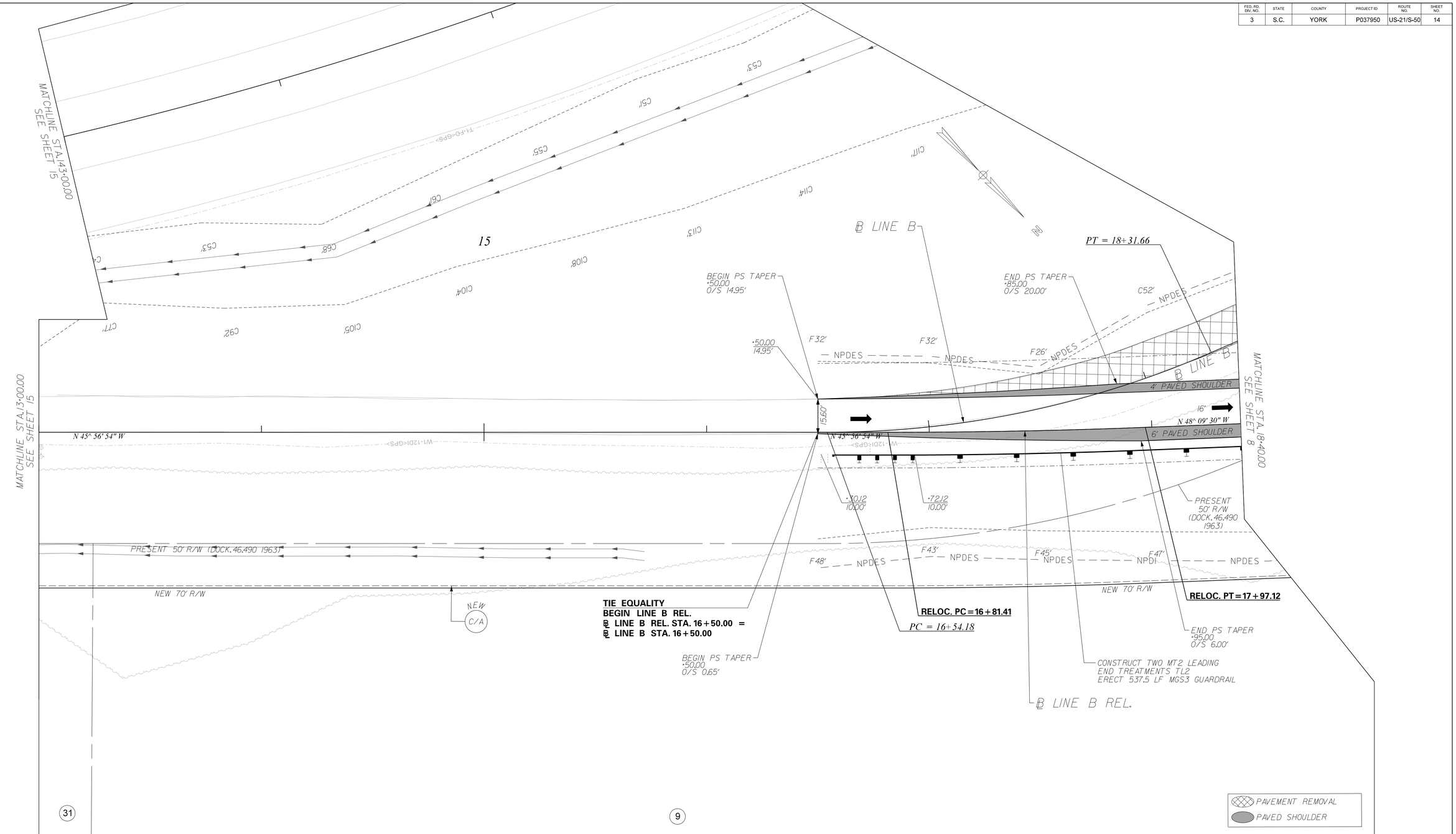
PLAN SHEET
LINE C REL.
STA. 11+60.00 - 13+85.00

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02. Working\Roadway\DGN\Plan Sheets\13 Plan.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	14



SEE SHEET 8D FOR LINE B REL. PROFILE

KCI TECHNOLOGIES
ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

0 20 40 60 80

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 21580
10/1/2025
BRIAN WAYNE REYES

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

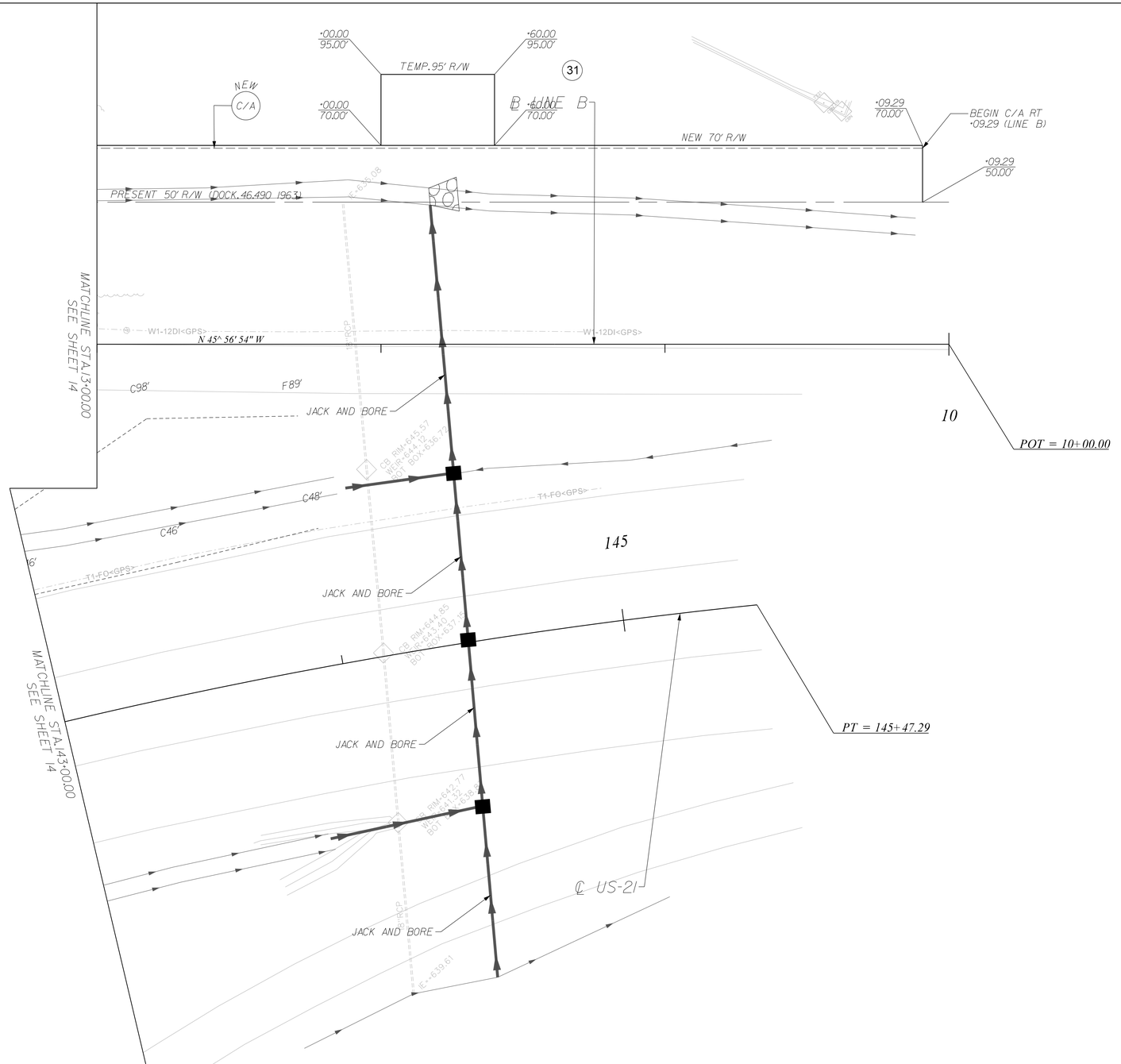
PLAN SHEET
LINE B REL.
STA. 16+50.00 TO STA. 18+40.00

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\14 Plan.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	15



SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
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KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

0 20 40 60 80

SOUTH CAROLINA KCI TECHNOLOGIES, INC. No. C00651 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER BRIAN WAYNE REYES No. 21580 10/1/2025

REV. NO.	BY	DATE	DESCRIPTION OF REVISION	SCALE 1" = 20'
5				YORK COUNTY
4				
3				PLAN SHEET US-21
2				
1				

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	D1

Smooth

		Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Node	Node	Node	Link Invert	Node	Node	Node	Link Invert	Min	Max	SPT "N"	Pressure	HDPE	Built	RCP	Built	SRAP	Built
		(in)	Barrels	(ft)	(%)		Description	Station	(ft)		Description	Station	(ft)	(ft)	(ft)	below invert	(psi)	Type	✓	Highest Class	✓	Thickest Gage	✓
	EP-1	24	1	127.1	1.5	EX-1	OEP	129+96	656.0	J-6	JB	129+97	654.1	0.0	3.2		10	NA	✓	IV	✓	NA	✓
	NP-1	18	1	30.0	0.3	CB-1	CB-16	131+64	660.6	CB-25	CB-16	131+66	660.5	2.8	3.0		10	NA	NA	IV	NA	NA	NA
	NP-3	18	1	81.9	2.5	CB-3	CB-16	132+50	662.7	CB-1	CB-16	131+64	660.6	2.7	2.8		10	NA	NA	IV	NA	NA	NA
	NP-4	18	1	61.6	0.5	CB-4	CB-16	135+80	663.5	CB-32	CB-16	11+75	663.2	2.5	3.4		10	NA	NA	IV	NA	NA	NA
	NP-5	18	1	28.4	0.6	CB-5	CB-16	16+63	665.6	OP-5	OUTLET	136+00	665.4	0.0	2.6		10	NA	NA	IV	NA	NA	NA
	NP-6	18	1	54.0	0.6	CB-6	CB-16	134+15	665.9	CB-5	CB-16	16+63	665.6	2.5	2.7		10	NA	NA	IV	NA	NA	NA
	NP-7	18	1	9.2	8.2	CB-7	CB-16	134+82	667.0	J-1	JB	134+82	666.3	2.5	3.2		10	NA	NA	IV	NA	NA	NA
	NP-8	18	1	37.4	1.1	CB-14	CB-16	138+40	676.5	CB-13	CB-16	138+42	676.1	3.3	4.5		10	NA	NA	IV	NA	NA	NA
	NP-11	18	1	42.6	0.5	CB-11	CB-16	16+68	678.0	CB-10	CB-16	13+00	677.8	3.2	3.4		10	NA	NA	IV	NA	NA	NA
	NP-12	18	1	34.9	1.9	CB-12	CB-16	10+29	678.7	CB-11	CB-16	16+68	678.0	2.7	3.4		10	NA	NA	IV	NA	NA	NA
	NP-13	18	1	82.8	2.1	CB-10	CB-16	13+00	677.8	CB-13	CB-16	138+42	676.1	3.2	4.5		10	NA	NA	IV	NA	NA	NA
	NP-15	18	1	167.9	2.6	CB-15	CB-16	16+31	674.3	OP-7	OUTLET	18+00	670.0	0.0	2.5		10	NA	NA	IV	NA	NA	NA
	NP-16	18	1	26.0	2.3	CB-16	CB-16	16+23	674.9	CB-15	CB-16	16+31	674.3	3.3	3.3		10	NA	NA	IV	NA	NA	NA
	NP-17	18	1	33.9	2.6	CB-17	CB-16	140+15	678.1	CB-27	CB-16	15+81	677.2	2.5	2.5		10	NA	NA	IV	NA	NA	NA
	NP-18	18	1	25.1	7.2	CB-31	CB-16	51+55	657.7	J-4	JB	51+60	655.9	3.1	4.2		10	NA	NA	IV	NA	NA	NA
	NP-19	18	1	49.5	1.4	CB-19	CB-16	128+38	657.3	CB-18	CB-16	128+92	656.5	2.5	2.5		10	NA	NA	IV	NA	NA	NA
	NP-1A	18	1	87.3	0.5	DN-1	DN	130+20	660.6	OP-2	OUTLET	130+50	660.2	0.0	0.0		10	NA	NA	V	NA	NA	NA
	NP-1B	18	1	61.8	0.6	J-1	JB	134+82	666.3	CB-6	CB-16	134+15	665.9	2.7	3.0		10	NA	NA	IV	NA	NA	NA
	NP-1C	30	1	27.4	0.5	DI-1	CB-9	19+50	656.5	OP-6	OUTLET	19+50	656.4	0.0	5.1		10	NA	NA	IV	NA	NA	NA
	NP-20	18	1	103.3	1.0	CB-20	CB-16	127+31	658.3	CB-19	CB-16	128+38	657.3	2.5	2.5		10	NA	NA	IV	NA	NA	NA
	NP-21	18	1	112.9	0.8	CB-21	CB-16	50+40	658.6	CB-31	CB-16	51+55	657.7	2.7	3.1		10	NA	NA	IV	NA	NA	NA
	NP-22	18	1	110.8	0.3	CB-22	CB-16	11+85	659.3	OP-11	OUTLET	11+80	659.0	0.0	5.1		10	NA	NA	IV	NA	NA	NA
	NP-23	18	1	128.2	0.6	CB-23	CB-16	10+50	660.1	CB-22	CB-16	11+85	659.3	5.1	5.6		10	NA	NA	IV	NA	NA	NA
	NP-24	18	1	46.5	0.3	CB-24	CB-16	132+33	660.3	CB-29	CB-18	10+87	660.2	4.0	5.1		10	NA	NA	IV	NA	NA	NA
	NP-25	18	1	62.8	0.3	CB-25	CB-16	131+66	660.5	CB-24	CB-16	132+33	660.3	3.0	4.2		10	NA	NA	IV	NA	NA	NA
	NP-26	18	1	36.7	10.0	CB-26	CB-16	10+15	663.8	CB-23	CB-16	10+50	660.1	2.8	5.6		10	NA	NA	IV	NA	NA	NA
	NP-27	18	1	38.9	6.0	CB-27	CB-16	15+81	677.2	CB-16	CB-16	16+23	674.9	2.7	3.3		10	NA	NA	IV	NA	NA	NA
	NP-28	18	1	128.9	7.5	J-2	JB	138+00	660.0	J-7	JB	136+87	650.3	3.0	7.3		10	NA	NA	IV	NA	NA	NA
	NP-29	18	1	40.2	0.3	CB-29	CB-18	10+87	660.2	CB-23	CB-16	10+50	660.1	5.1	5.6		10	NA	NA	IV	NA	NA	NA
	NP-2A	18	1	23.3	0.5	J-7	JB	136+87	649.1	OP-4	OUTLET	136+86	649.0	0.0	4.2		10	NA	NA	IV	NA	NA	NA
	NP-2C	30	1	65.1	2.9	DI-2	CB-9	133+50	652.8	OP-10	OUTLET	134+00	651.0	0.0	2.5		10	NA	NA	IV	NA	NA	NA
	NP-30	18	1	15.8	9.9	CB-30	CB-18	11+81	675.8	CB-15	CB-16	16+31	674.3	3.3	3.5		10	NA	NA	IV	NA	NA	NA
	NP-32	18	1	51.0	1.0	CB-32	CB-16	11+75	663.2	CB-3	CB-16	132+50	662.7	2.5	3.4		10	NA	NA	IV	NA	NA	NA
	NP-33	18	1	104.8	3.5	CB-18	CB-16	128+92	656.5	DI-7	CB-9	130+00	652.9	2.5	2.5		10	NA	NA	IV	NA	NA	NA
	NP-34	24	1	34.8	2.4	DI-7	CB-9	130+00	652.9	J-6	JB	129+97	652.1	2.0	5.2		10	NA	NA	IV	NA	NA	NA
	NP-3A	30	1	79.4	0.5	DN-3	DN	19+50	656.9	DI-1	CB-9	19+50	656.5	2.0	4.7		10	NA	NA	IV	NA	NA	NA
	NP-3B	48	1	54.9	0.3	DI-3	CB-9	12+60	635.5	DI-4	CB-9	12+60	635.3	3.3	4.5		10	NA	NA	V	NA	NA	NA
	NP-3D	18	1	90.2	0.3	J-8	JB	53+00	651.3	OP-8	OUTLET	52+87	651.0	0.0	3.2		10	NA	NA	IV	NA	NA	NA
	NP-4A	18	1	162.3	0.8	J-4	JB	51+60	655.9	J-3	JB	53+21	654.6	4.0	4.2		10	NA	NA	IV	NA	NA	NA
	NP-4B	18	1	51.6	4.3	DN-4	DN	18+16	658.7	OP-9	OUTLET	131+35	656.5	0.0	0.0		10	NA	NA	IV	NA	NA	NA
	NP-4C	48	1	54.9	0.3	DI-4	CB-9	12+60	635.3	DI-5	CB-9	12+60	635.2	4.5	6.5		10	NA	NA	V	NA	NA	NA
	NP-4D	24	1	52.7	8.8	DN-8	DN	14+51	641.8	DI-3	CB-9	12+60	637.2	0.0	3.4		10	NA	NA	IV	NA	NA	NA
	NP-5A	30	1	109.9	0.1	J-5	JB	132+00	651.4	OP-13	OUTLET	133+00	651.3	0.0	3.7		10	NA	NA	IV	NA	NA	NA
	NP-5B	30	1	61.1	0.3	DN-10	DN	133+50	653.0	DI-2	CB-9	133+50	652.8	0.0	2.5		10	NA	NA	IV	NA	NA	NA
	NP-5C	48	1	92.8	0.3	DI-5	CB-9	12+60	635.2	OP-12	OUTLET	12+60	634.9	0.0	6.5		10	NA	NA	V	NA	NA	NA
	NP-6A	24	1	202.3	0.3	J-6	JB	129+97	652.1	J-5	JB	132+00	651.4	4.3	5.2		10	NA	NA	IV	NA	NA	NA
	NP-7A	18	1	58.3	5.9	DN-7	DN	12+60	641.1	DI-3	CB-9	12+60	637.7	0.0	2.2		10	NA	NA	IV	NA	NA	NA
	NP-51	15	1	24.0	0.3	N/A	OEP	22+38	662.2	N/A	OUTLET	22+62	662.1	0.0	1.0		10	NA	NA	IV	NA	NA	NA
	NP-53	18	1	51.8	1.6	N/A	OEP	20+00	660.5	N/A	OUTLET	19+48	659.7	0.0	2.0		10	NA	NA	IV	NA	NA	NA

Corrugated Wall Pipe

		Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Corrugated Wall Options	
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Node	Node	Node	Link Invert	Node	Node	Node	Link Invert	Min	Max	SPT "N"	Pressure	CAAP	Built
		(in)	Barrels	(ft)	(%)		Description	Station	(ft)		Description	Station	(ft)	(ft)	(ft)	below invert	(psi)	Thickest Gage	✓
	NP-3C	18	1	27.3	12.2	J-3	JB	53+21	654.61	J-8	JB	53+00	651.29	3.20	4.20		10	16ga	NA
	NP-9A	30	1	36.5	14.5	DN-9	DN	12+60	646.1	DI-5	CB-9	12+60	640.8	0.0	2.1		10	16ga	NA
	NP-9	18	1	60.4	11.9	CB-13	CB-16	138+42	671.5	J-2	JB	138+00	664.3	3.0	8.2		10	16ga	NA

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

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SOUTH CAROLINA KCI TECHNOLOGIES, INC. No. C00651 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 33847 LEAH M YOUNG
Leah Young

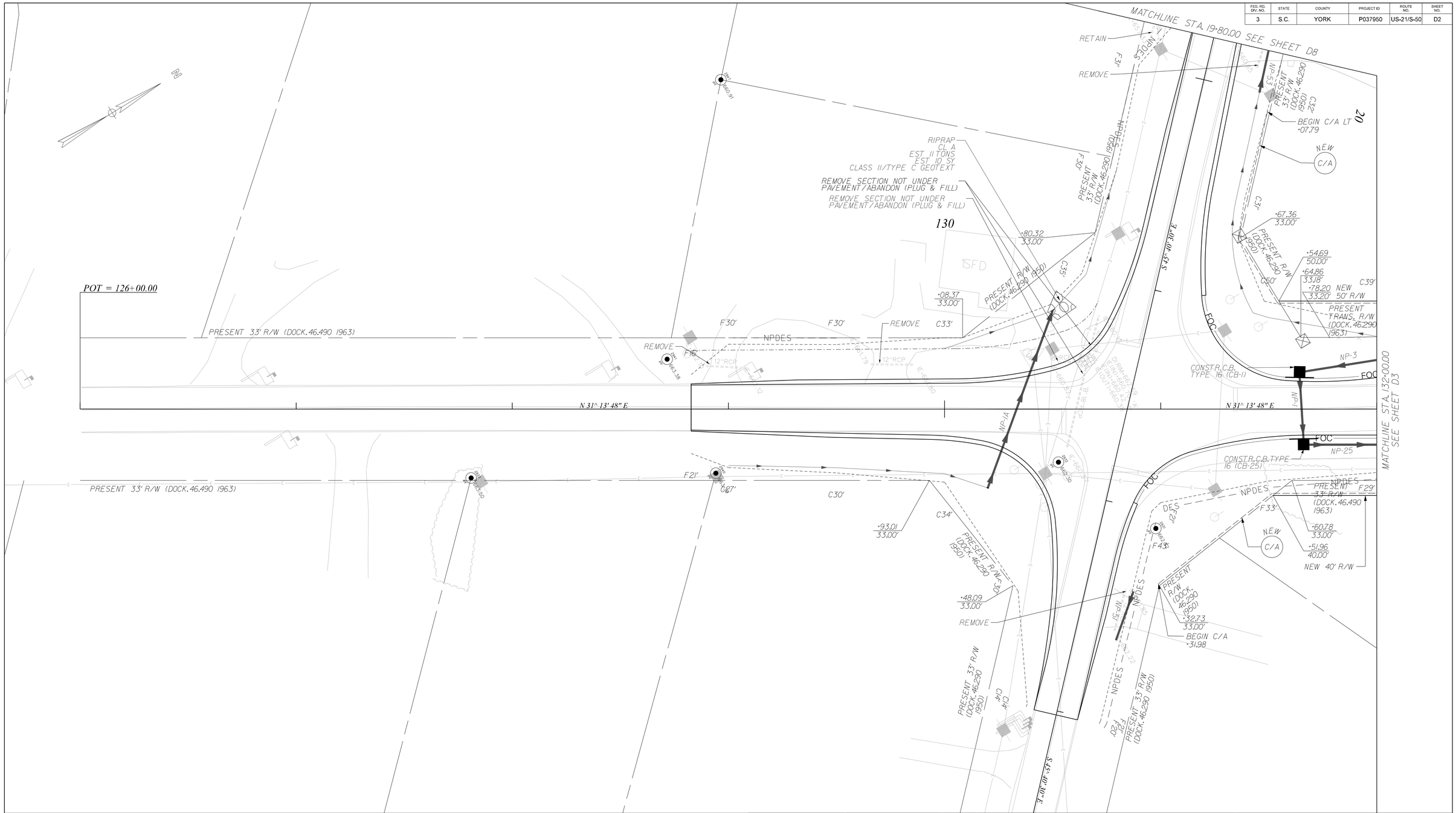
REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

DRAINAGE PLAN SHEET

SCALE 1" = 50'

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	D2



SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl

FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\D2.dgn

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

0 20 40 60 80

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 33847 — LEAH M YOUNG — Leah Young

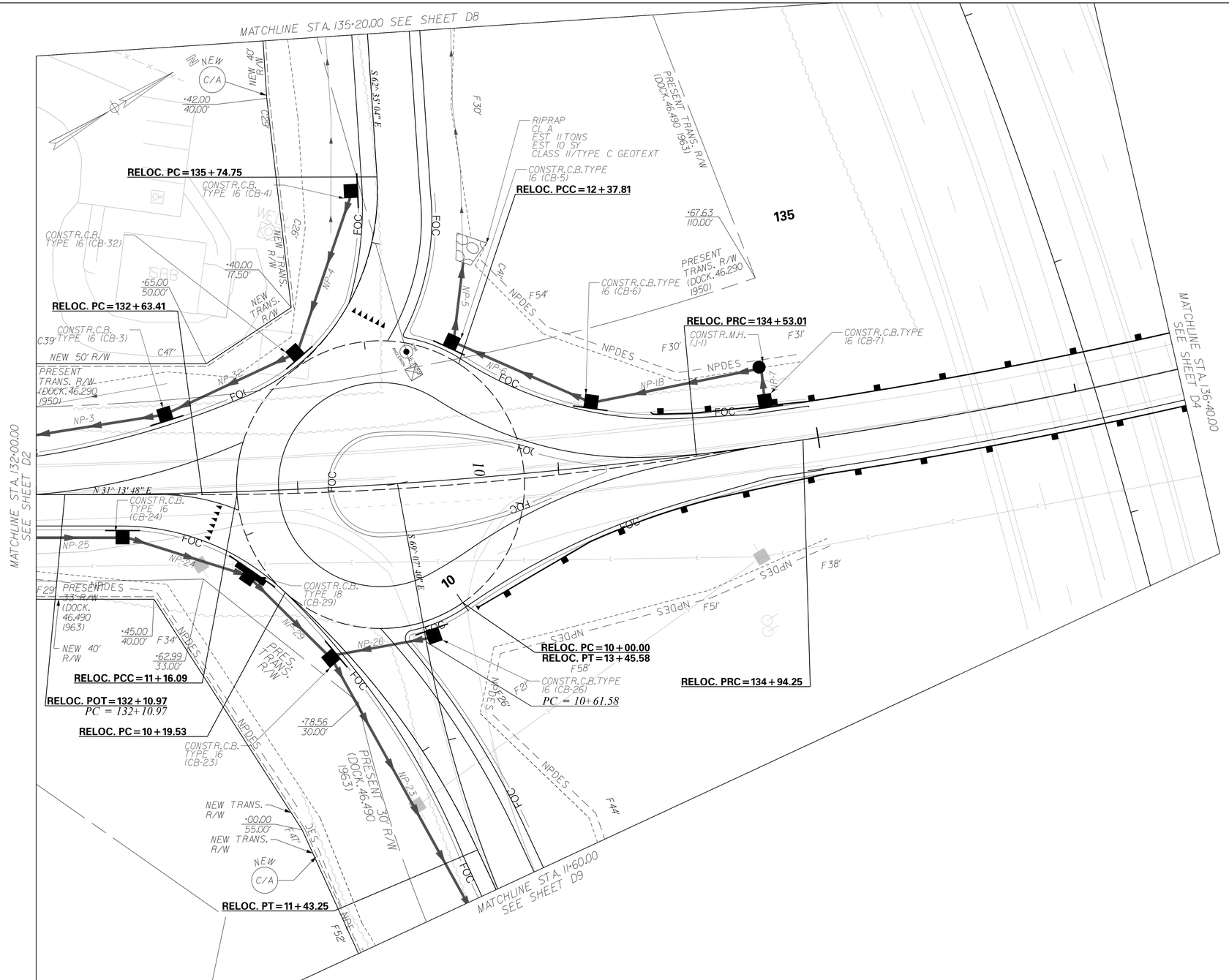
REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

DRAINAGE PLAN SHEET
S-50 (SPRINGDALE RD)
STA. 128+82.74 TO STA. 132+00.00
S-143 (CATAWBA CHURCH RD)

SCALE 1" = 20'

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	D3



KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

0 20 40 60 80

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 33847 — Leah Young

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

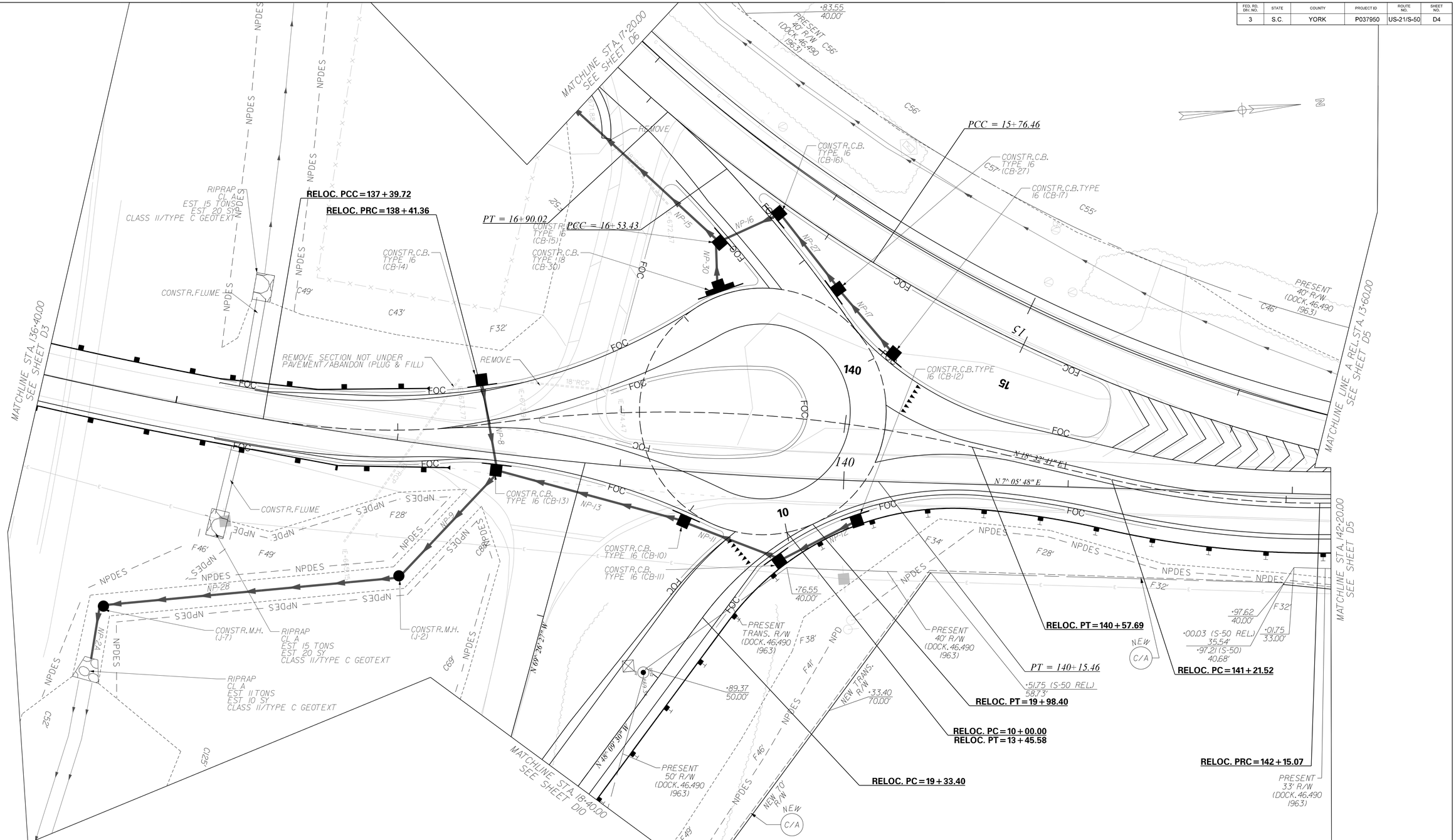
YORK COUNTY

DRAINAGE PLAN SHEET
S-50 REL.
STA. 132+00.00 TO STA. 136+40.00
ROUNDABOUT SOUTH
LINE C REL., LINE D REL.

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/29/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\20192519037862\ Working\Roadway\DGN\Plan Sheets\D Sheets\D3.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	D4



KCI TECHNOLOGIES
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SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 33847 — Leah Young

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

DRAINAGE PLAN SHEET
S-50 REL. (SPRINGDALE RD)
STA. 136+40.00 TO STA. 142+20.00
ROUNDABOUT NORTH
LINE A REL, LINE B REL, LINE E REL

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\D Sheets\D4.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	D5

N

MATCHLINE LINE A REL STA. 13+60.00
SEE SHEET D4

PRESENT 40' R/W (DOCK. 46,490 1963)

•51.84
40.00'

C39'

NPDES

PC = 13+09.16

PC = 12+64.85

F40'

F41'

F38'

PRESENT TRANS. R/W (DOCK. 46,490 1963)

C39'

C51'

NPDES

POT = 10+00.00

S 12° 28' 19" W

MATCHLINE STA. 142+20.00
SEE SHEET D4

NPDES

F36'

F32'

•98.93 (S-50 REL.)
44.96'
•97.21 (S-50)
46.80'

NEW C/A

PC = 142+25.96

F42'

F42'

PROPERTY LINE = NEW R/W

F41'

C47'

•82.61 (S-50 REL.)
46.76'
•80.00 (S-50)
46.76'

END C/A RT
•82.61

•28.11
47.26'

RELOC. PT = 144 + 82.61

PRESENT 33' R/W
(DOCK. 46,490 1963)

PRESENT TRANS. R/W
(DOCK. 46,490 1963)

N 15° 43' 56" E

CB RIM=671.54
W=18"=657.20
E(OUT)=656.95
E(EL)=656.49

•56.39
46.29'

•80.32
69.72'

PT = 147+20.23

145

01

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0 20 40 60 80

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 33847 — Leah Young — 9/15/2025

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
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3			
2			
1			

YORK COUNTY

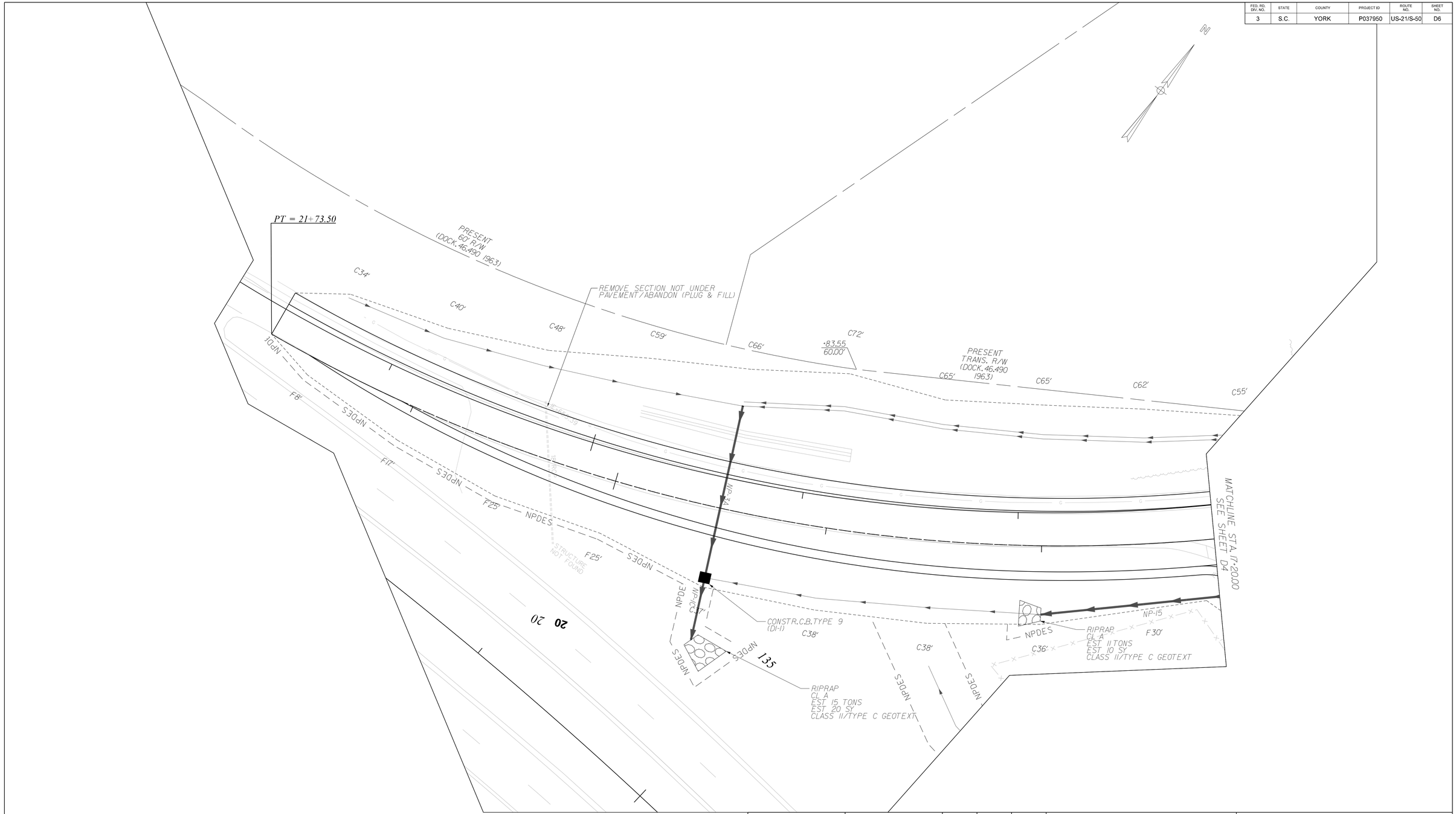
DRAINAGE PLAN SHEET
REL. S-50 (SPRINGDALE RD)
STA. 142+20.00 TO STA. 144+82.61
REL. LINE A

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019251903786\2. Working\Roadway\DGN\Plan Sheets\D Sheets\D5.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	D6



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0 20 40 60 80

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 33847 — Leah Young

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
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YORK COUNTY

DRAINAGE PLAN SHEET
LINE A REL.
STA. 17+20.00 TO STA. 21+73.50

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/23/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\20192519037862\ WorkingIRoadwayIDGNIPlan SheetsID Sheets\D6.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	D7

N

125

130

PRESENT 60' R/W (DOCK. 46,490 1963)

PRESENT 60' R/W (DOCK. 46,490 1963)

PRESENT 100' R/W (DOCK. 46,490 1963)

+00.00 60.00'

+00.00 100.00'

7539 668.57

RETAIN

EP-1

18"RCP

S 89^ 25' 23" E

10

50

130

FOC

PRESENT R/W (DOCK. 46,490 1963)

+77.78 45.16'

+77.78 50.00'

NEW TRANS. R/W F21'

F21'

CONSTR.C.B.TYPE 16 (CB-20)

CONSTR.C.B.TYPE 16 (CB-31)

REMOVE

CONSTR.C.B.TYPE 16 (CB-19)

REMOVE

CONSTR.M.H. (J-6)

CONSTR.C.B.TYPE 16 (CB-18)

CONSTRUCT CB TYPE-9 (DI-7)

18"RCP

NP-33

NP-21

NP-19

NP-18

S 83^ 51' 53" E

(E(OUT)=654.86

S 83^ 51' 53" E

7553 667.80

S 68^ 03' 07" E

CONSTR.M.H. (J-4)

MATCHLINE STA.130+00.00 SEE SHEET D8

RELOC. PRC=53+31.55

PC = 10+00.00

NPDES

F19'

F20'

F23'

F15'

F16'

CONSTR.C.B.TYPE 16 (CB-21)

NEW 25' R/W

+80.84 (LINE D REL. B) 25.00'

RELOC. POT=50+00.00

+83.77 (LINE D REL. B) 55.00'

1SFD

REMOVE SECTION NOT UNDER PAVEMENT/ABANDON (PLUG & FILL)

15

NP-4A

PRESENT 33' R/W (DOCK. 46,290 1950)

PT = 13+44.35

RELOC. PCC=51+65.67

RELOC. PC=51+41.45

+64.90 (LINE D REL. B) 55.00'

CONVERT CB TO M.H. (J-3)

NP-30

IE=650.44

IE=660.5 (IN)=655.40 (OUT)=654.6

MATCHLINE STA.53+40.00 SEE SHEET D8

+05.79 33.00'

CONSTR.M.H. (J-8)

PROPERTY LINE - NEW R/W

PC = 14+44.76

+91.20 50.00'

RELOC. PRC=52+83.87

+37.57 145.74'

RIPRAP CL A EST 18 TONS EST 25 SY CLASS II/TYPE C GEOTEXT

+49.16 150.00'

+80.68 150.00'

NEW 150' R/W

REMOVE SECTION NOT UNDER PAVEMENT/ABANDON (PLUG & FILL)

PROPERTIES 16 & 17 - SAME OWNER

0 20 40 60 80

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SOUTH CAROLINA KCI TECHNOLOGIES, INC. No. C00651 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 33847 Leah Young

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
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YORK COUNTY

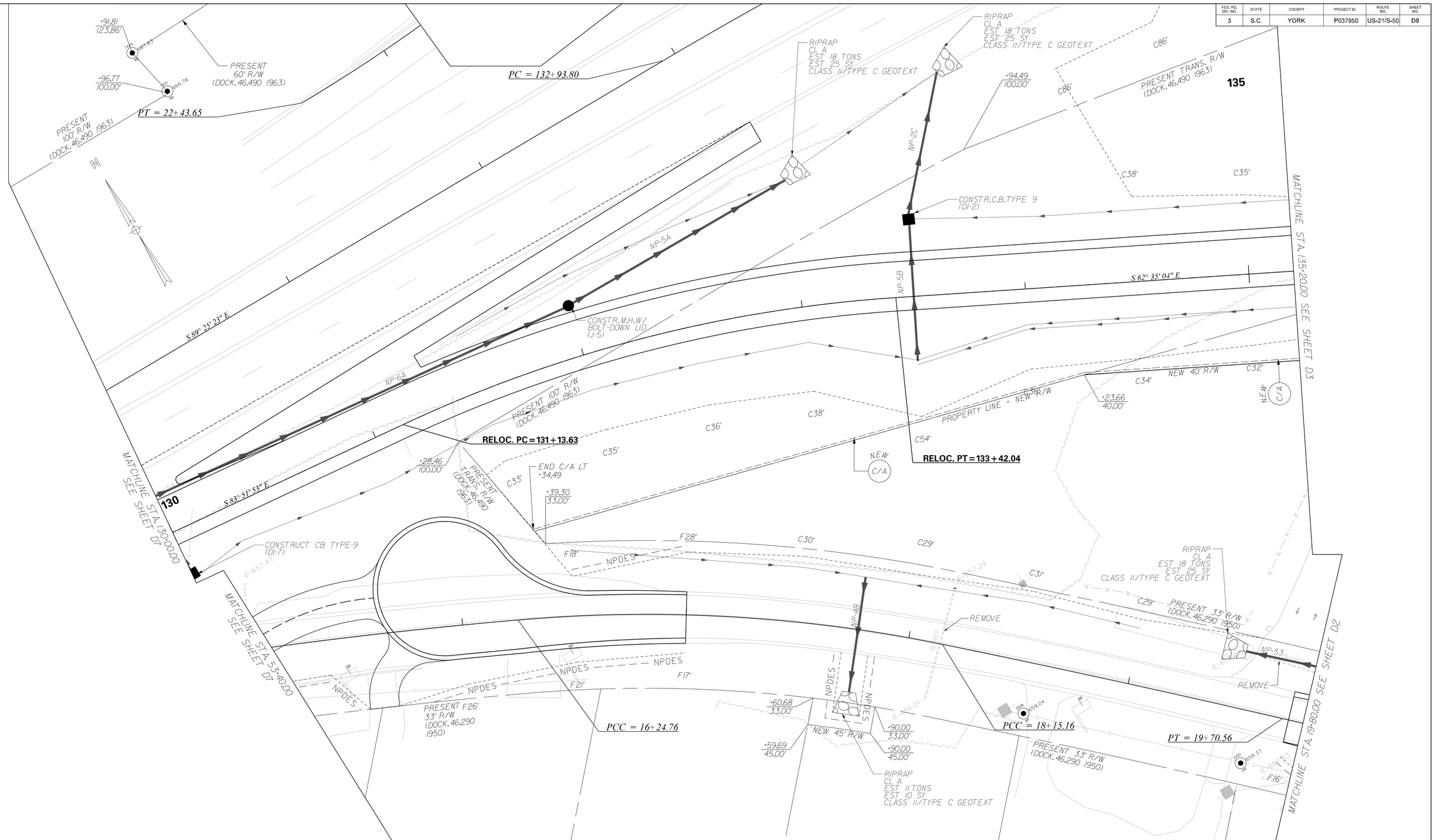
DRAINAGE PLAN SHEET
LINE D REL.
STA. 126+00.00 TO STA. 130+00.00
S-143 (CATAWBA CHURCH RD)
US 21, COUNTY RD

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\D Sheets\D7.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	D8



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SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 33847 — Leah Young

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
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YORK COUNTY

DRAINAGE PLAN SHEET
LINE D REL.
STA. 130+00.00 TO STA. 135+20.00
S-143 (CATAWBA CHURCH RD)
US 21, COUNTY RD

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\D Sheets\D8.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	D9

N

MATCHLINE STA. 11+60.00
SEE SHEET D3

MATCHLINE
SEE SHEET D10

MATCHLINE
SEE SHEET D11

NPDES

RIPRAP
CL A
EST 11 TONS
EST 10 SY
CLASS II/TYPE C GEOTEXT

F39'

F38'

F36'

F28'

F21'

NP-22

NP-23

S 87^ 02' 17" E

S 83^ 41' 54" E

NPDE

F11'

F7'

PRESENT 30' R/W
(DOCK. 46.490 1963)

CONSTR.C.B.
TYPE16 (CB-22)

NPDES

F37'

NEW TRANS.R/W F46'

F46' NEW TRANS.R/W

NEW
C/A

•24.38
60.00'

END C/A RT
•65.00

•65.00
30.00'

5784
653.92
5201P

RELOC. PC = 11 + 90.00

RELOC. PC = 13 + 65.33
PC = 13+65.33

RELOC. PT = 14 + 51.06
PT = 14+51.06

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0 20 40 60 80

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 33847
LEIGH YOUNG

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
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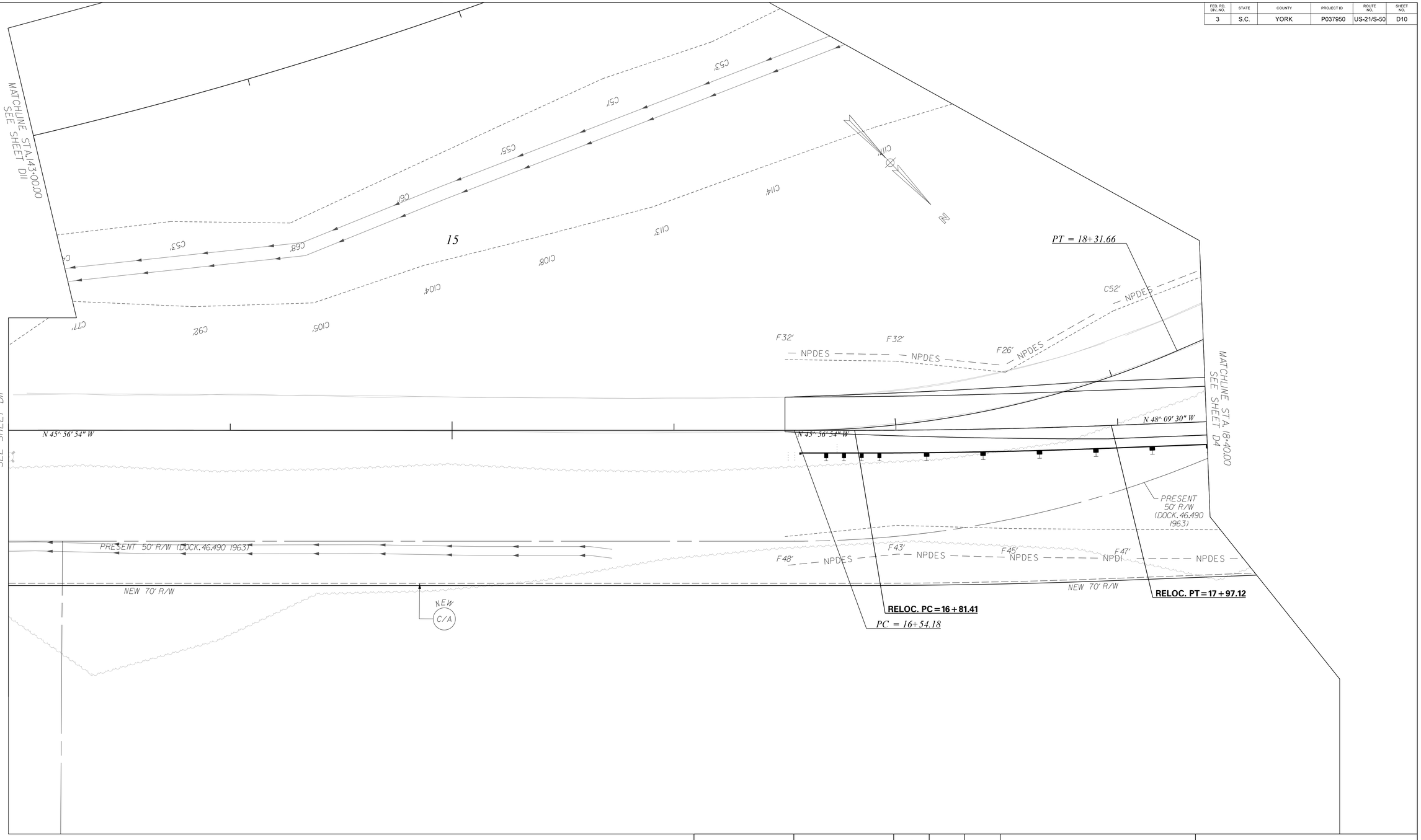
YORK COUNTY

DRAINAGE PLAN SHEET
LINE C REL.
STA. 11+60.00 - 13+85.00

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02. Working\Roadway\DGN\Plan Sheets\D Sheets\D9.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	D10



KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

0 20 40 60 80

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 33847
DAVID YOUNG

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

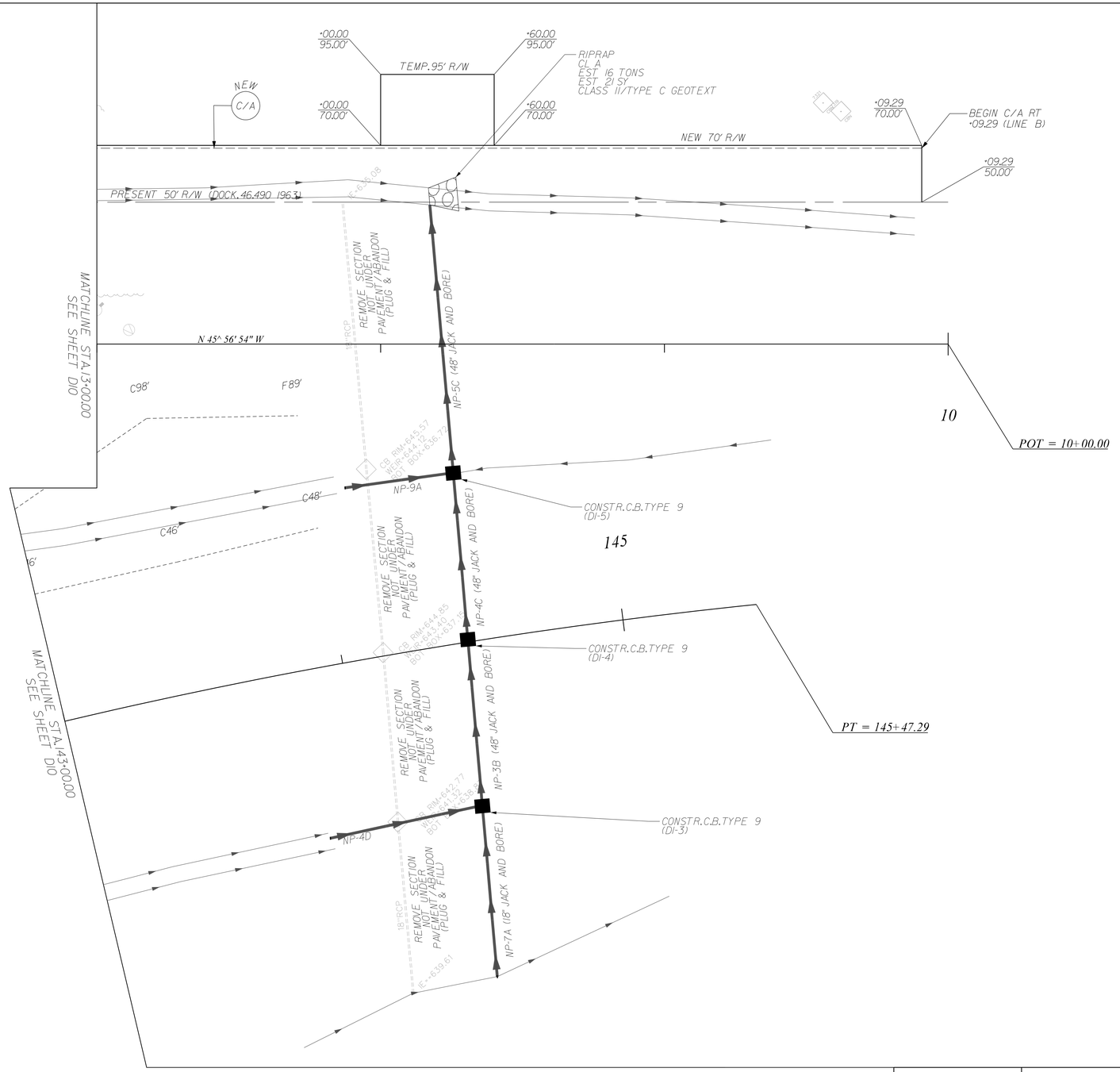
YORK COUNTY

DRAINAGE PLAN SHEET
LINE B REL.
STA. 16+50.00 TO STA. 18+40.00

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02. Working\Roadway\DGN\Plan Sheets\D Sheets\D10.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	D11



PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl

FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\20192519037862\ Working\Roadway\DGN\Plan Sheets\D Sheets\D11.dgn

SCALE : 20.000 ft / in.

PLOT DRIVER : pdf.pltcfg

PLOTTED : 9/15/2025

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

0 20 40 60 80

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 33847
Caleb Young

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

DRAINAGE PLAN SHEET
US-21

SCALE 1" = 20'

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	D12

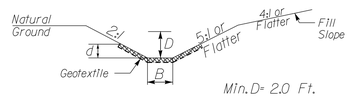
DETAIL 1
CUT 'V' DITCH
(Not to Scale)

Min. D= 2.0 Ft.

Type of Liner= Grass

FROM LINEA STA.13+50.00 RT TO STA.15+50.00 RT
FROM LINEA STA.19+50.00 RT TO STA.21+50.00 RT
FROM LINEA STA.18+00.00 LT TO STA.19+50.00 LT

DETAIL 2
CUT BASE DITCH
(Not to Scale)

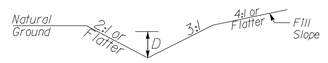


Min. D= 2.0 Ft.
Max. d= 1.0 Ft.
B= 2.0 Ft.

Type of Liner= Class B Rip-Rap

FROM LINEA STA.15+50.00 RT TO STA.19+50.00 RT

DETAIL 3
CUT 'V' DITCH
(Not to Scale)



Min. D= 1.0 Ft.

Type of Liner= Grass

FROM RDI43 STA.16+50.00 LT TO STA.17+00.00 LT
FROM RDI43 STA.17+00.00 LT TO STA.17+50.00 LT
FROM RDI43 STA.18+50.00 LT TO STA.19+00.00 LT

DETAIL 4
CUT 'V' DITCH
(Not to Scale)

Min. D= 1.0 Ft.

Type of Liner= Grass

FROM RD_50 STA.129+00.00 RT TO STA.130+20.00 RT
FROM RD_50 STA.129+90.00 LT TO STA.130+60.00 LT
FROM RDI43 STA.20+00.00 LT TO STA.20+50.00 LT

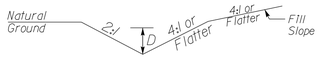
DETAIL 5
CUT 'V' DITCH
(Not to Scale)

Min. D= 1.0 Ft.

Type of Liner= Grass

FROM LINED STA.131+00.00 RT TO STA.133+50.00 RT
FROM LINED STA.135+00.00 RT TO STA.136+00.00 RT
FROM LINED STA.133+50.00 LT TO STA.136+00.00 LT

DETAIL 6
CUT 'V' DITCH
(Not to Scale)

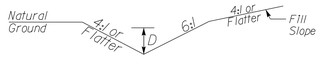


Min. D= 1.0 Ft.

Type of Liner= Grass

FROM RDI43 STA.20+50.00 LT TO STA.21+00.00 LT
FROM RDI43 STA.20+50.00 RT TO STA.21+00.00 RT

DETAIL 7
CUT 'V' DITCH
(Not to Scale)

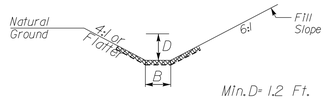


Min. D= 1.0 Ft.

Type of Liner= Grass

FROM COUNTY_RD STA.52+00.00 LT TO STA.53+92.33 LT

DETAIL 8
CUT BASE DITCH
(Not to Scale)

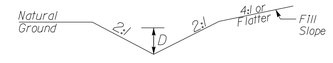


Min. D= 1.2 Ft.
B= 6.0 Ft.

Type of Liner= Class B Rip-Rap

FROM US21 STA.141+26.00 RT TO STA.143+76.00 RT

DETAIL 9
CUT 'V' DITCH
(Not to Scale)

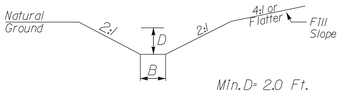


Min. D= 1.9 Ft.

Type of Liner= Grass

FROM RDI43 STA.17+50.00 LT TO STA.18+50.00 LT

DETAIL 10
CUT BASE DITCH
(Not to Scale)

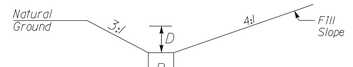


Min. D= 2.0 Ft.
B= 6.0 Ft.

Type of Liner= Grass

FROM LINEB STA.9+00.00 RT TO STA.12+60.00 RT

DETAIL 11
CUT BASE DITCH
(Not to Scale)

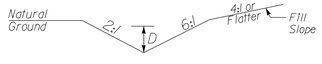


Min. D= 2.0 Ft.
B= 10.0 Ft.

Type of Liner= Grass

FROM US21 STA.138+70.00 LT TO STA.144+12.00 LT

DETAIL 12
CUT 'V' DITCH
(Not to Scale)

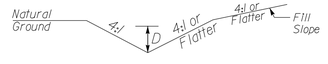


Min. D= 1.0 Ft.

Type of Liner= Grass

FROM RD_50 STA.131+50.00 LT TO STA.132+50.00 LT
FROM RD_50 STA.144+50.00 LT TO STA.144+83.00 LT

DETAIL 13
CUT 'V' DITCH
(Not to Scale)

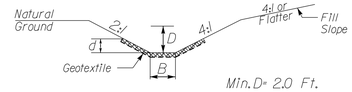


Min. D= 2.4 Ft.

Type of Liner= Grass

FROM US21 STA.144+51.00 LT TO STA.145+47.00 LT

DETAIL 14
CUT BASE DITCH
(Not to Scale)

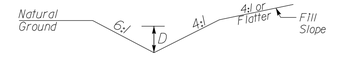


Min. D= 2.0 Ft.
Max. d= 0.6 Ft.
B= 2.0 Ft.

Type of Liner= Class B Rip-Rap

FROM LINED STA.133+50.00 RT TO STA.135+00.00 RT

DETAIL 15
CUT 'V' DITCH
(Not to Scale)

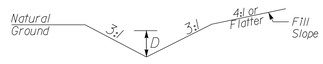


Min. D= 1.0 Ft.

Type of Liner= Grass

FROM LINED STA.131+50.00 LT TO STA.133+00.00 LT

DETAIL 16
CUT 'V' DITCH
(Not to Scale)

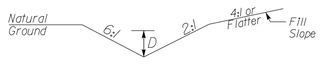


Min. D= 0.4 Ft.

Type of Liner= Grass

FROM US21 STA.135+53.0 LT TO STA.136+97.00 LT

DETAIL 17
CUT 'V' DITCH
(Not to Scale)

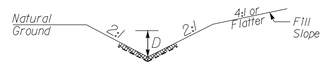


Min. D= 2.4 Ft.

Type of Liner= Grass

FROM LINED STA.133+00.00 LT TO STA.133+67.00 LT

DETAIL 18
CUT 'V' DITCH
(Not to Scale)



Min. D= 1.1 Ft.

Type of Liner= Class B Rip-Rap

FROM LINEC STA.16+06.00 RT TO STA.23+26.00 RT

DETAIL 19
CUT 'V' DITCH
(Not to Scale)

Min. D= 1.1 Ft.

Type of Liner= Grass

FROM US21 STA.140+26.00 RT TO STA.141+26.00 RT

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA
KCI TECHNOLOGIES INC
CONSULTING ENGINEERS
No. C00651
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 33847
LICENSED
Leah Young

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

DITCH DETAILS SHEET

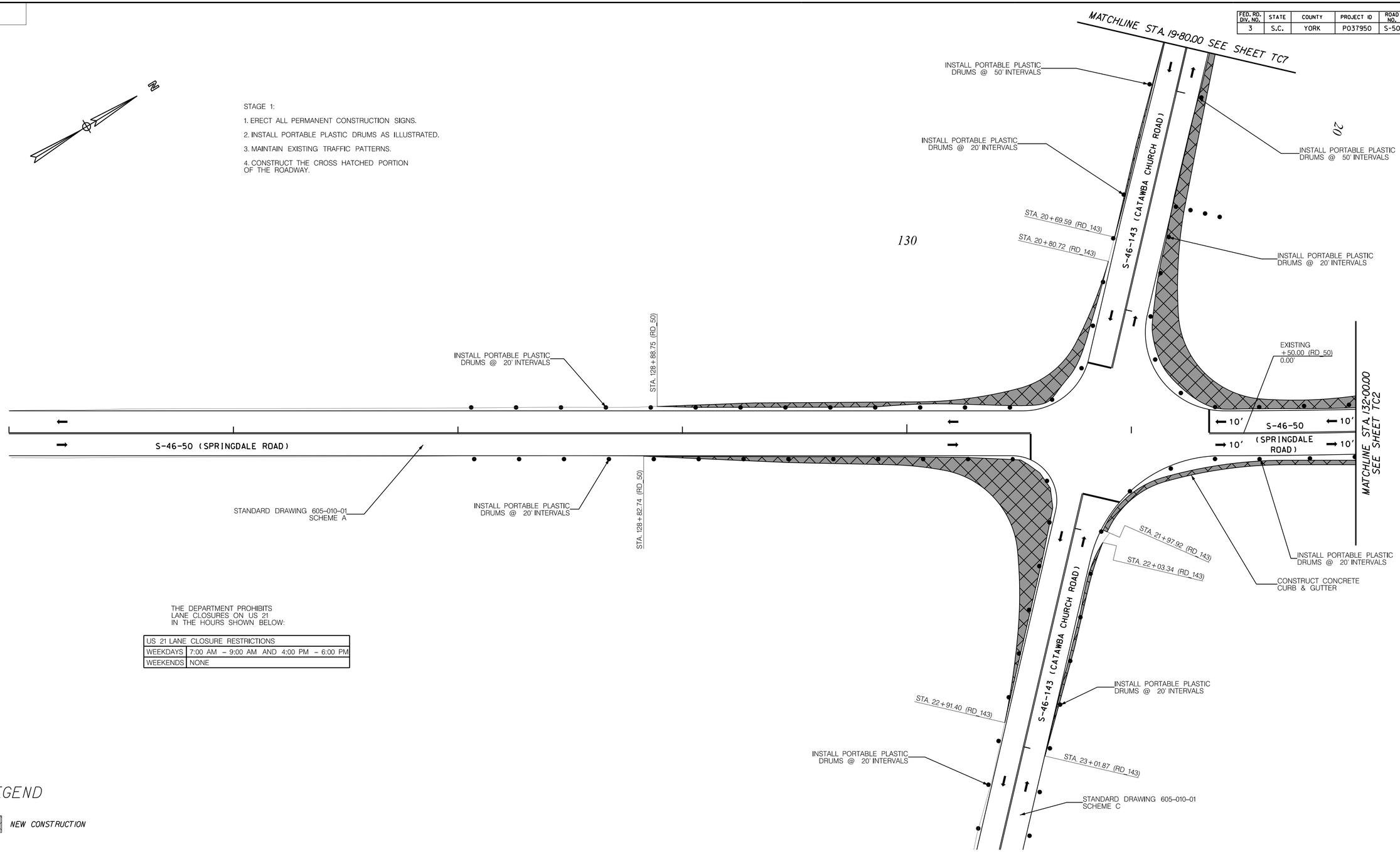
SCALE 1" = NTS

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC1

STAGE 1:

1. ERECT ALL PERMANENT CONSTRUCTION SIGNS.
2. INSTALL PORTABLE PLASTIC DRUMS AS ILLUSTRATED.
3. MAINTAIN EXISTING TRAFFIC PATTERNS.
4. CONSTRUCT THE CROSS HATCHED PORTION OF THE ROADWAY.



THE DEPARTMENT PROHIBITS LANE CLOSURES ON US 21 IN THE HOURS SHOWN BELOW:

US 21 LANE CLOSURE RESTRICTIONS	
WEEKDAYS	7:00 AM – 9:00 AM AND 4:00 PM – 6:00 PM
WEEKENDS	NONE

LEGEND

NEW CONSTRUCTION

REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

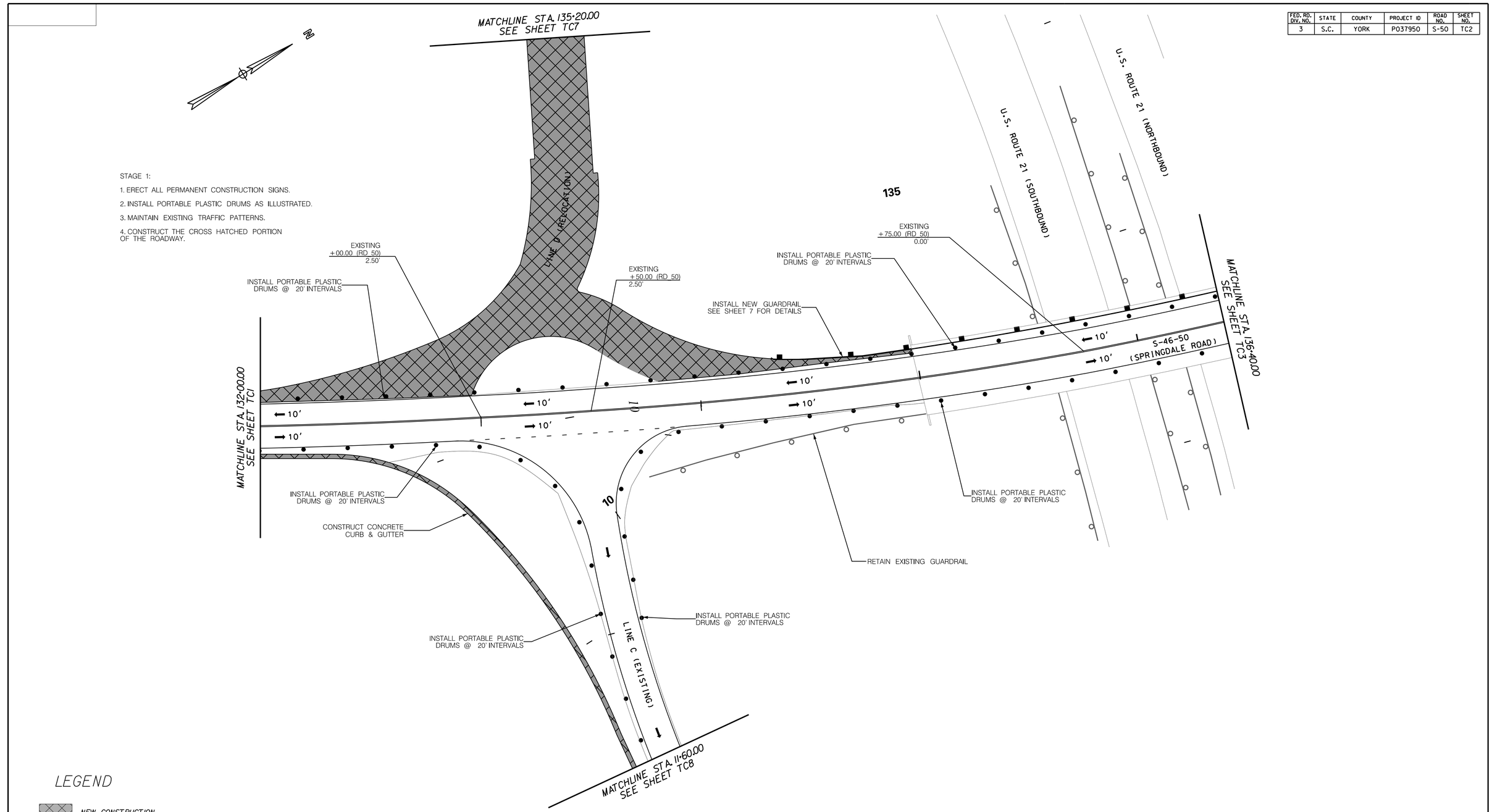
YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

TRAFFIC CONTROL STAGE 1

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC2



REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA — CHA, Inc. No. 4478 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 30342 — REGISTERED — ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

TRAFFIC CONTROL STAGE 1

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC3

N

STAGE 1:

1. ERECT ALL PERMANENT CONSTRUCTION SIGNS.
2. INSTALL PORTABLE PLASTIC DRUMS AS ILLUSTRATED.
3. CONSTRUCT THE CROSS HATCHED PORTION OF THE ROADWAY.
4. CONSTRUCT HATCHED SECTION OF TEMPORARY PAVEMENT.

FOR TEMPORARY PAVEMENT USE:
HOT MIX ASPHALT SURFACE COURSE TYPE B (200 LBS/S.Y.)
HOT MIX ASPHALT BASE COURSE TYPE A (1000 LBS/S.Y.)

MATCHLINE STA. 17+20.00
SEE SHEET TC5

LINE E (RELOCATION)

LINE E (EXISTING)

INSTALL PORTABLE PLASTIC DRUMS @ 20' INTERVALS

STA 139+00.89 (SSOREL)

STA 138+71.81 (SSOREL)

INSTALL PORTABLE PLASTIC DRUMS @ 50' INTERVALS

STA 141+15.03 (SSOREL)

INSTALL PORTABLE PLASTIC DRUMS @ 20' INTERVALS

MAINTAIN PROTECTION OF BRIDGE END AT ALL TIMES

INSTALL PORTABLE PLASTIC DRUMS @ 20' INTERVALS

INSTALL NEW GUARDRAIL SEE SHEET 8 FOR DETAILS

MATCHLINE STA. 136+40.00
SEE SHEET TC2

+91.28 (RD_50)
26.00'

+00.12 (RD_50)
26.00'

TEMPORARY PAVEMENT

INSTALL PORTABLE PLASTIC DRUMS @ 20' INTERVALS

STA 140+50.17 (SSOREL)

+15.65 (RD_50)
26.00'

TEMPORARY PAVEMENT

+80.56 (RD_50)
26.00'

LINE A (EXISTING)

MATCHLINE LINE A REL-STA. 13+60.00
SEE SHEET TC4

S-46-50 (SPRINGDALE ROAD)

U.S. ROUTE 21 (NORTHBOUND)

INSTALL PORTABLE PLASTIC DRUMS @ 20' INTERVALS

RETAIN EXISTING GUARDRAIL

S-46-50 (SPRINGDALE ROAD)

STA 141+44.97 (SSOREL)

INSTALL PORTABLE PLASTIC DRUMS @ 50' INTERVALS

INSTALL PORTABLE PLASTIC DRUMS @ 20' INTERVALS

LINE B (EXISTING)

STA 19+33.40 (LINEB REL 1)

MATCHLINE STA. 18+40.00
SEE SHEET TC9

LEGEND

TEMPORARY PAVEMENT

NEW CONSTRUCTION

REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED
1	08/26/25	REVISED LINE A	R.L.D.	B.G.N.					

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA — CHA, Inc. No. 4478 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 30342 — ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

TRAFFIC CONTROL STAGE 1

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC4

N

STAGE 1:

1. ERECT ALL PERMANENT CONSTRUCTION SIGNS.
2. INSTALL PORTABLE PLASTIC DRUMS AS ILLUSTRATED.
3. MAINTAIN EXISTING TRAFFIC PATTERNS.
4. CONSTRUCT THE CROSS HATCHED PORTION OF THE ROADWAY.

145

MATCHLINE LINE A REL STA 136+00.00
SEE SHEET TC3

LINE A (EXISTING)

STA. 144+80.00 (RD_50)
STA. 144+82.61 (S50REL)

INSTALL PORTABLE PLASTIC DRUMS @ 50' INTERVALS

STANDARD DRAWING 605-010-01
SCHEME A

S-46-50 (SPRINGDALE ROAD)

S-46-50 (SPRINGDALE ROAD)

MATCHLINE STA 142+20.00
SEE SHEET TC3

STA. 144+80.00 (RD_50)
STA. 144+82.61 (S50REL)

INSTALL PORTABLE PLASTIC DRUMS @ 50' INTERVALS

01

WILLIAMS INDUSTRIAL BOULEVARD

LEGEND

NEW CONSTRUCTION

REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

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INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

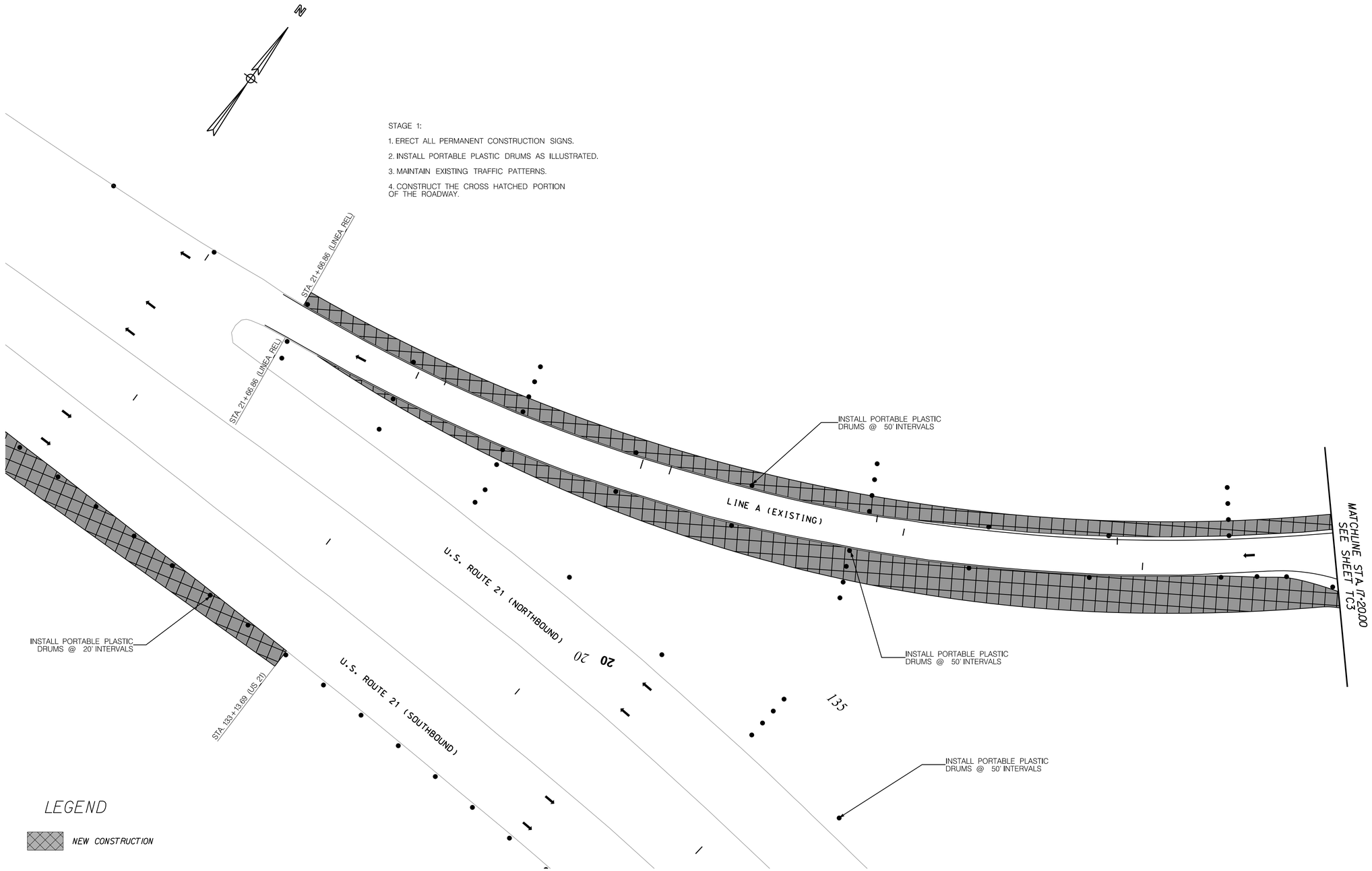
TRAFFIC CONTROL STAGE 1

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC5

STAGE 1:

1. ERECT ALL PERMANENT CONSTRUCTION SIGNS.
2. INSTALL PORTABLE PLASTIC DRUMS AS ILLUSTRATED.
3. MAINTAIN EXISTING TRAFFIC PATTERNS.
4. CONSTRUCT THE CROSS HATCHED PORTION OF THE ROADWAY.



REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED
1	08/26/25	REVISED LINE A	R.L.D.	B.G.N.					

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21 (ANDERSON RD)

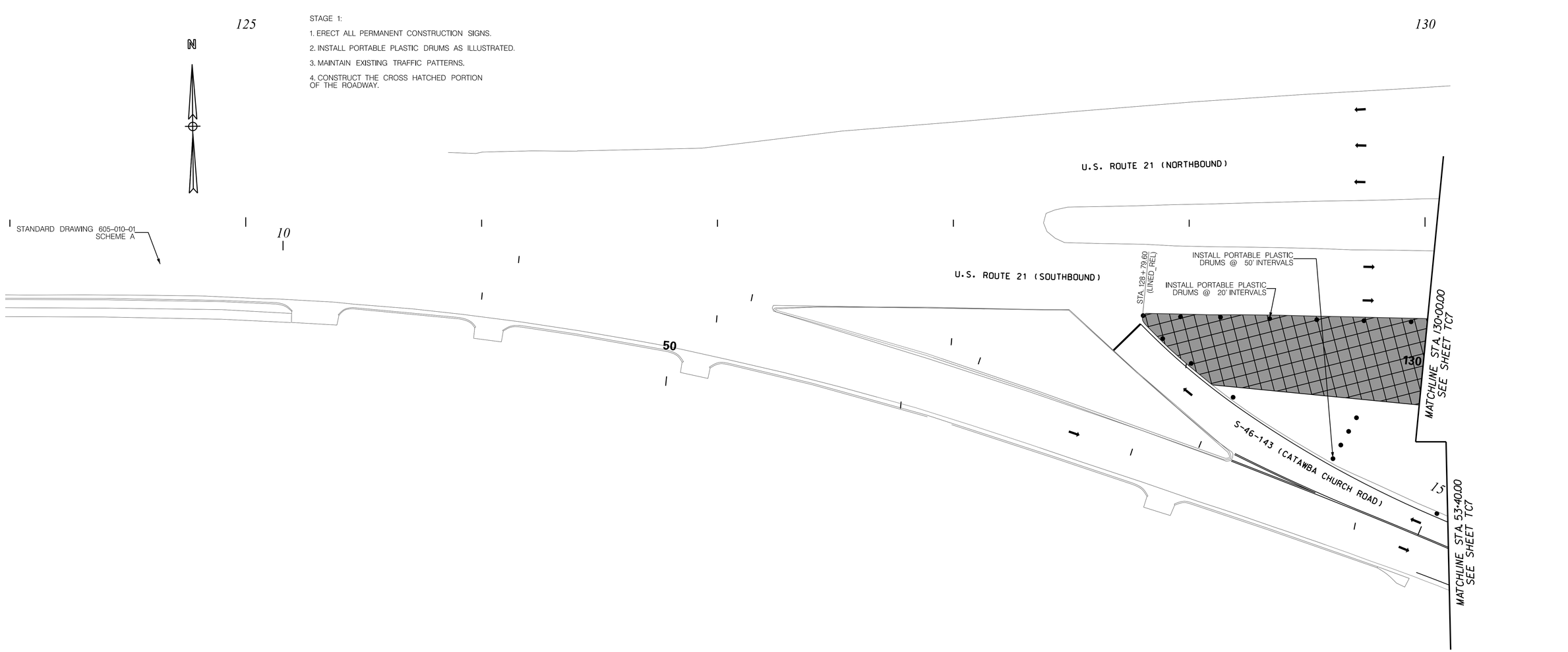
TRAFFIC CONTROL STAGE 1

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC6

STAGE 1:

1. ERECT ALL PERMANENT CONSTRUCTION SIGNS.
2. INSTALL PORTABLE PLASTIC DRUMS AS ILLUSTRATED.
3. MAINTAIN EXISTING TRAFFIC PATTERNS.
4. CONSTRUCT THE CROSS HATCHED PORTION OF THE ROADWAY.



LEGEND

SIDEWALK REMOVAL

NEW CONSTRUCTION

REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30348 ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT
S-50 (SPRINGDALE RD) AND
US 21(ANDERSON RD)

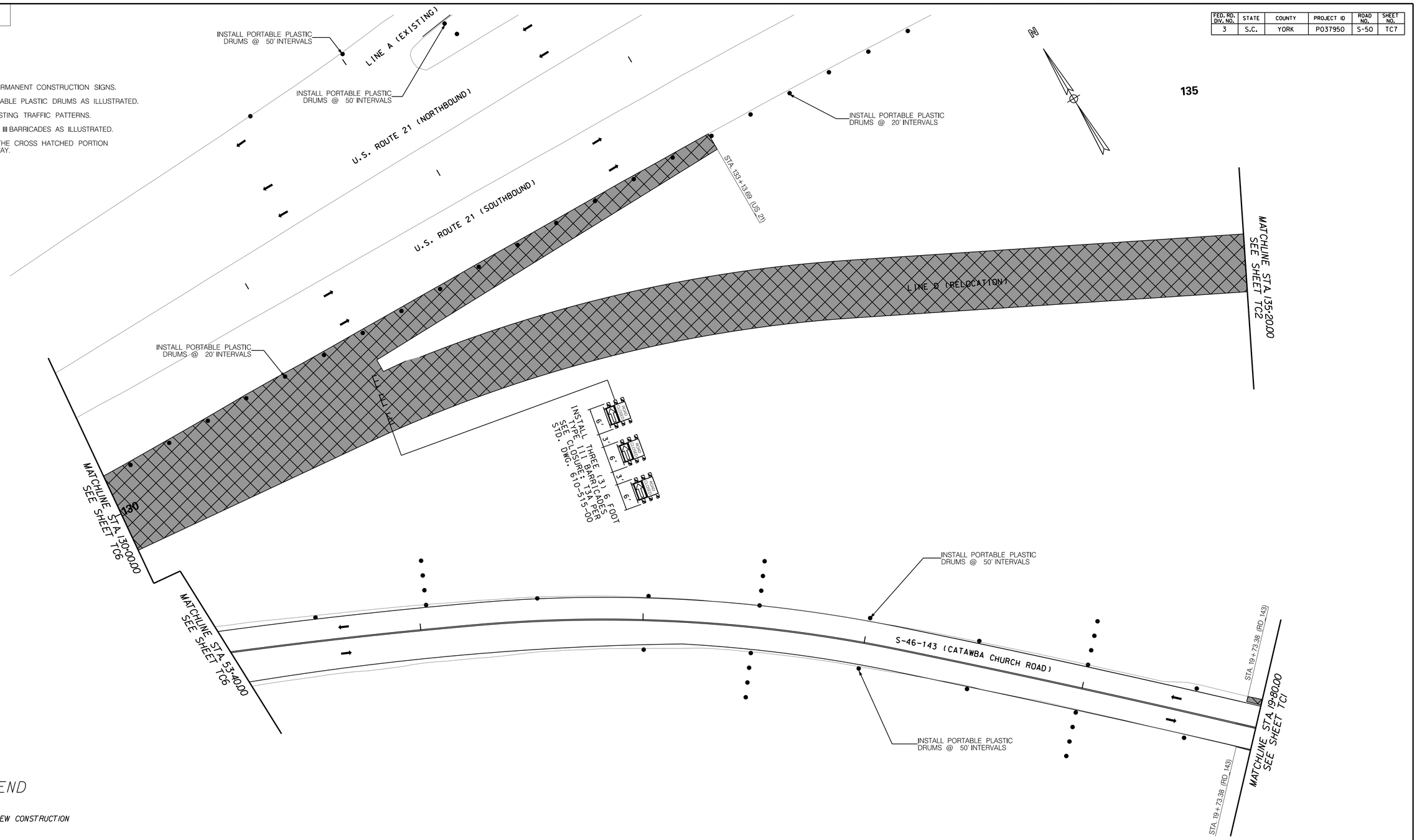
TRAFFIC CONTROL STAGE 1

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC7

STAGE 1:

1. ERECT ALL PERMANENT CONSTRUCTION SIGNS.
2. INSTALL PORTABLE PLASTIC DRUMS AS ILLUSTRATED.
3. MAINTAIN EXISTING TRAFFIC PATTERNS.
4. INSTALL TYPE III BARRICADES AS ILLUSTRATED.
5. CONSTRUCT THE CROSS HATCHED PORTION OF THE ROADWAY.



LEGEND

NEW CONSTRUCTION

REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 0

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA — CHA, Inc. No. 4478 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 30342 — ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

TRAFFIC CONTROL STAGE I

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC8

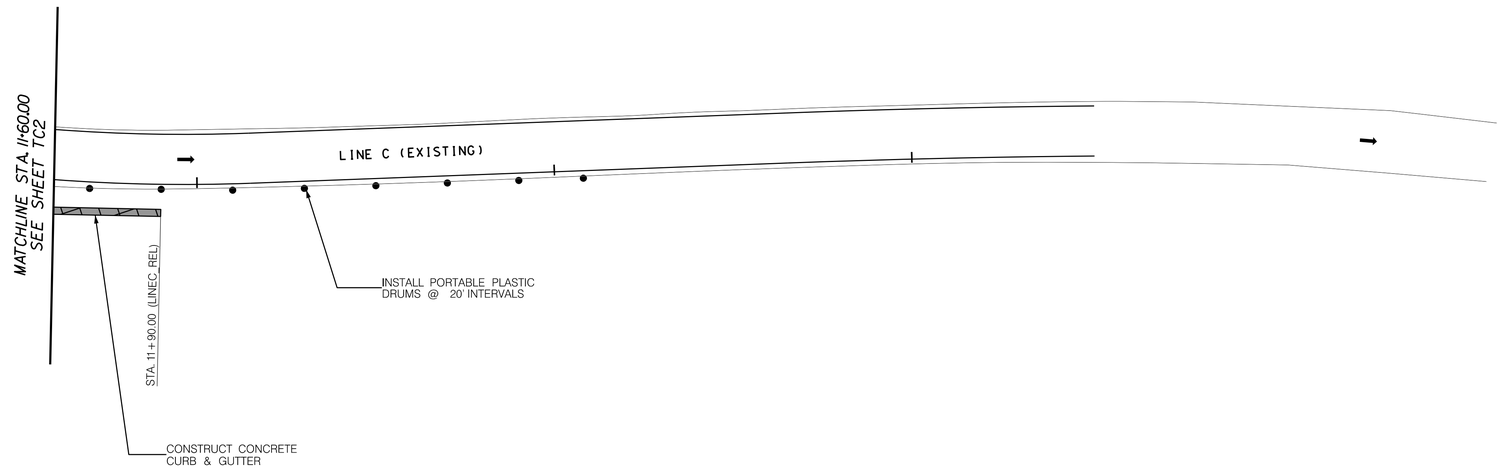
STAGE 1:

1. ERECT ALL PERMANENT CONSTRUCTION SIGNS.

2. INSTALL PORTABLE PLASTIC DRUMS AS ILLUSTRATED.

3. MAINTAIN EXISTING TRAFFIC PATTERNS.

4. CONSTRUCT THE CROSS HATCHED PORTION OF THE ROADWAY



LEGEND

NEW CONSTRUCTION

REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

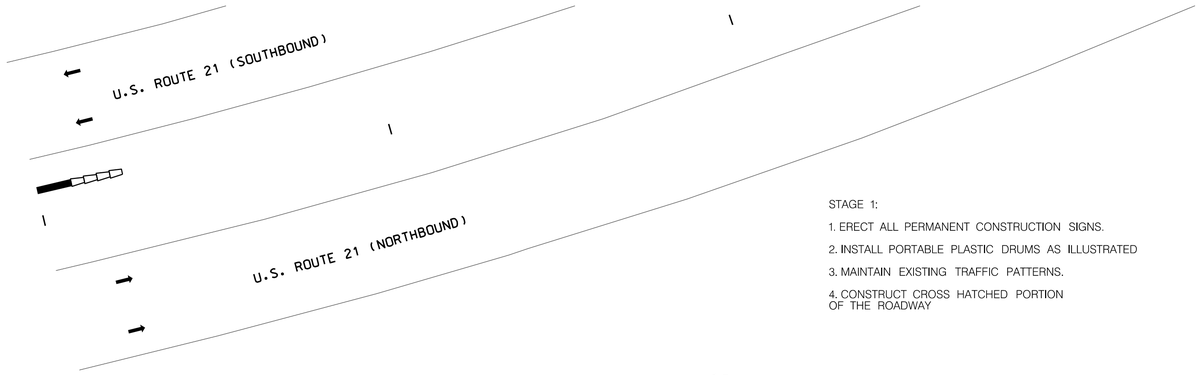
YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

TRAFFIC CONTROL STAGE 1

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

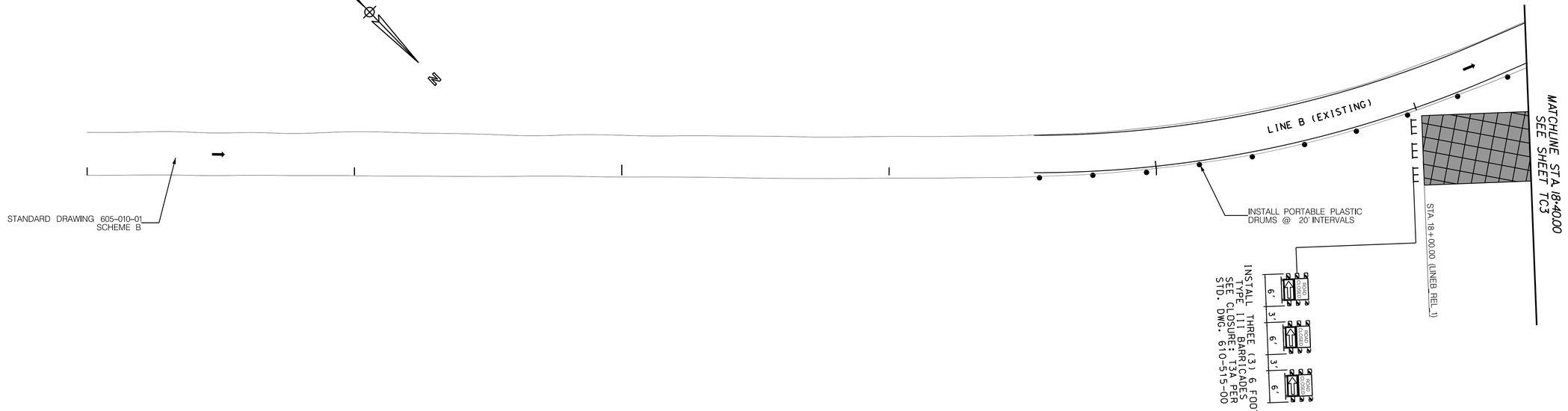
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC9



STAGE 1:

1. ERECT ALL PERMANENT CONSTRUCTION SIGNS.
2. INSTALL PORTABLE PLASTIC DRUMS AS ILLUSTRATED
3. MAINTAIN EXISTING TRAFFIC PATTERNS.
4. CONSTRUCT CROSS HATCHED PORTION OF THE ROADWAY

15



LEGEND

NEW CONSTRUCTION

REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

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DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

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YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT
S-50 (SPRINGDALE RD) AND
US 21(ANDERSON RD)

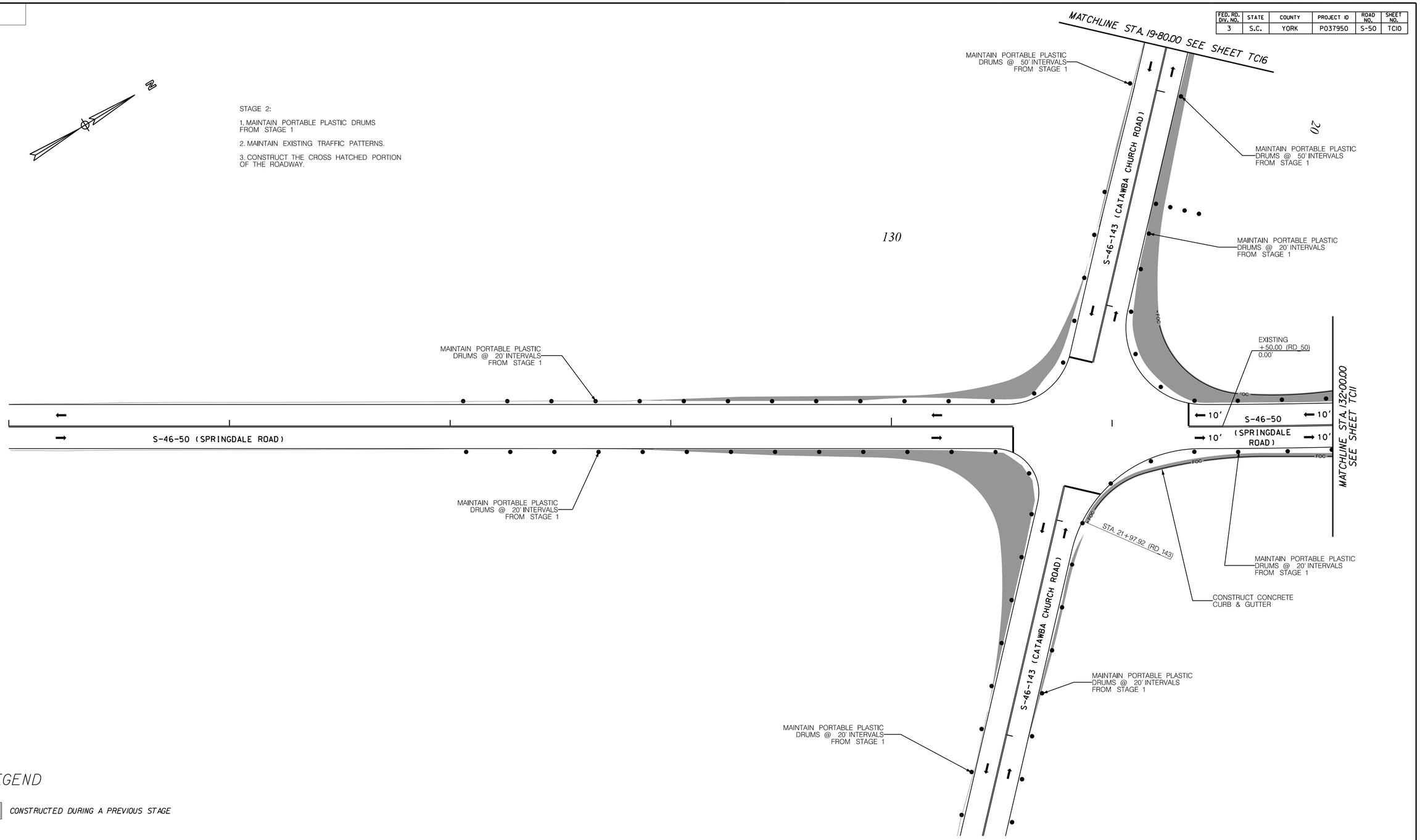
TRAFFIC CONTROL STAGE 1

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TCIO

STAGE 2:

1. MAINTAIN PORTABLE PLASTIC DRUMS FROM STAGE 1
2. MAINTAIN EXISTING TRAFFIC PATTERNS.
3. CONSTRUCT THE CROSS HATCHED PORTION OF THE ROADWAY.



LEGEND

CONSTRUCTED DURING A PREVIOUS STAGE

REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 30348 ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

TRAFFIC CONTROL STAGE 2

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TCII

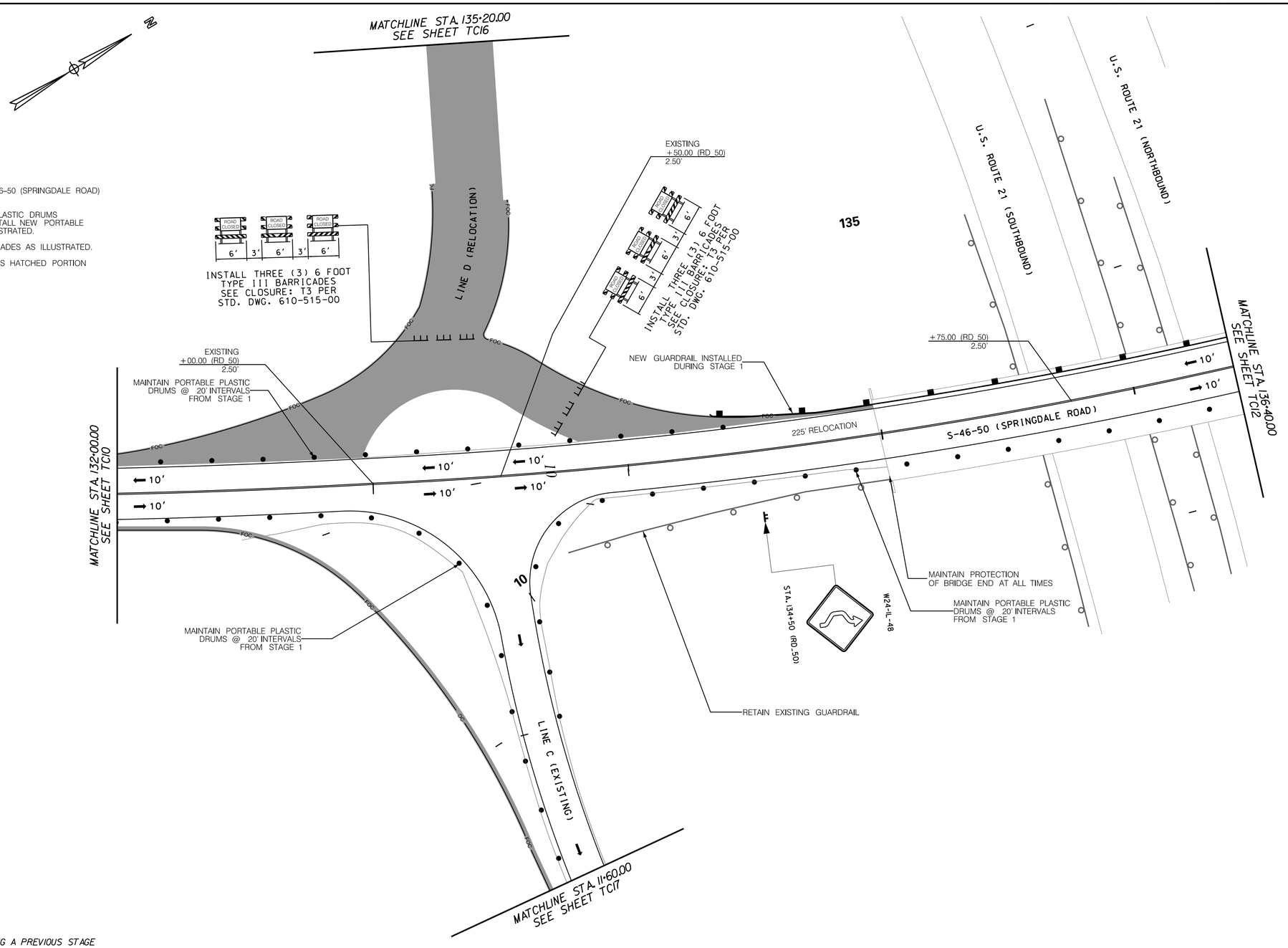
STAGE 2:

1. SHIFT TRAFFIC ON S-46-50 (SPRINGDALE ROAD) AS ILLUSTRATED.

2. MAINTAIN PORTABLE PLASTIC DRUMS FROM STAGE 1 AND INSTALL NEW PORTABLE PLASTIC DRUMS AS ILLUSTRATED.

3. INSTALL TYPE III BARRICADES AS ILLUSTRATED.

4. CONSTRUCT THE CROSS HATCHED PORTION OF THE ROADWAY.



LEGEND

CONSTRUCTED DURING A PREVIOUS STAGE

REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

TRAFFIC CONTROL STAGE 2

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC12

STAGE 2:

1. CLOSE LINE B (EXISTING), U.S. ROUTE 21 (NORTHBOUND) EXIT RAMP AND IMPLEMENT DETOUR LAYOUT A. SEE SHEET TC40.

2. SHIFT S-46-50 (SPRINGDALE ROAD) TRAFFIC ONTO TEMPORARY ALIGNMENT.

3. MAINTAIN EXISTING AND INSTALL NEW PORTABLE PLASTIC DRUMS AS ILLUSTRATED.

4. INSTALL TYPE III BARRICADES AS ILLUSTRATED.

5. CONSTRUCT THE CROSS HATCHED PORTION OF THE ROADWAY.

N

MATCHLINE STA. 17+20.00 SEE SHEET TC14

MAINTAIN PORTABLE PLASTIC DRUMS @ 50' INTERVALS FROM STAGE 1

MAINTAIN PORTABLE PLASTIC DRUMS @ 20' INTERVALS FROM STAGE 1

MAINTAIN PORTABLE PLASTIC DRUMS @ 20' INTERVALS FROM STAGE 1

INSTALL THREE (3) 6 FOOT TYPE III BARRICADES SEE CLOSURE: T3 PER STD. DWG. 610-515-00

INSTALL THREE (3) 6 FOOT TYPE III BARRICADES SEE CLOSURE: T3 PER STD. DWG. 610-515-00

LINE E (EXISTING)

LINE E (RELOCATION)

INSTALL PORTABLE PLASTIC DRUMS @ 20' INTERVALS

+40.00 (RD_50) 2.50

NEW GUARDRAIL INSTALLED DURING STAGE 1

MATCHLINE STA. 136+40.00 SEE SHEET TC11

10'

10'

S-46-50 (SPRINGDALE ROAD)

10'

10'

170' SHIFT

FOG

+10.00 (RD_50) 15.00'

+00.02 (RD_50) 25.00'

INSTALL PORTABLE PLASTIC DRUMS @ 20' INTERVALS

INSTALL PORTABLE PLASTIC DRUMS @ 50' INTERVALS

+00.00 (RD_50) 15.00'

LINE A (EXISTING)

MATCHLINE LINE A REL-STA. 13+60.00 SEE SHEET TC13

350' SHIFT

140

S-46-50 (SPRINGDALE ROAD) 10'

350' SHIFT

U.S. ROUTE 21 (NORTHBOUND)

STA. 137+40.00 (RD_50)

INSTALL PORTABLE PLASTIC DRUMS @ 20' INTERVALS

RETAIN EXISTING GUARDRAIL

INSTALL NP-9 SEE SHEET D1, D4, & EC8

INSTALL NP-28 SEE SHEET D1, D4, & EC8

INSTALL J-2 SEE SHEET D1, D4, & EC8

INSTALL J-7 SEE SHEET D1, D4, & EC8

INSTALL NP-2A SEE SHEET D1, D4, & EC8

INSTALL PORTABLE PLASTIC DRUMS @ 50' INTERVALS IN ADVANCE OF DRAINAGE STRUCTURE CONSTRUCTION (NP-2A, J-7, & NP-28) SEE SHEET TC12

CLOSE LINE N (EXISTING), U.S. ROUTE 21 (NORTHBOUND) EXIT RAMP AND IMPLEMENT DETOUR A SEE SHEET TC40

STA. 139+10.00 (RD_50)

10

INSTALL PORTABLE PLASTIC DRUMS @ 50' INTERVALS

INSTALL PORTABLE PLASTIC DRUMS @ 20' INTERVALS

STA 141+00.00 (RD_50)

STA 141+44.97 (SSOPEL)

INSTALL THREE (3) 6 FOOT TYPE III BARRICADES SEE CLOSURE: T3 PER STD. DWG. 610-515-00

LINE B (EXISTING)

LINE B (RELOCATION)

STA. 19+33.40 (LINEB_REL 1)

INSTALL THREE (3) 6 FOOT TYPE III BARRICADES SEE CLOSURE: T3 PER STD. DWG. 610-515-00

MATCHLINE STA. 18+40.00 SEE SHEET TC18

MATCHLINE STA. 142+20.00 SEE SHEET TC13

LEGEND

NEW CONSTRUCTION

CONSTRUCTED DURING A PREVIOUS STAGE

REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED
1	08/26/25	REVISED LINE A	R.L.D.	B.G.N.

REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA — CHA, Inc. No. 4478 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 30342 — REGISTERED — ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

TRAFFIC CONTROL STAGE 2

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TCI3

N

STAGE 2:

1. SHIFT S-46-50 (SPRINGDALE ROAD) TRAFFIC ONTO TEMPORARY ALIGNMENT

2. INSTALL W24-1R-48 SIGN AT APPROXIMATE STA. 147+00 (RD_50)

3. MAINTAIN EXISTING AND INSTALL NEW PORTABLE PLASTIC DRUMS AS ILLUSTRATED.

4. CONSTRUCT THE CROSS HATCHED PORTION OF THE ROADWAY.

145

MATCHLINE LINE A REL STA 136+00.00
SEE SHEET TCI2

LINE A (EXISTING)

350' SHIFT

MAINTAIN PORTABLE PLASTIC DRUMS @ 50' INTERVALS FROM STAGE 1

STA. 144+50.00 (RD_50)

+50.00 (RD_50)
7.50'

12'

S-46-50 (SPRINGDALE ROAD)

W24-1R-48

STA. 147+00 (RD_50)

MATCHLINE STA 142+20.00
SEE SHEET TCI2

+50.00 (RD_50)
7.50'

INSTALL PORTABLE PLASTIC DRUMS @ 50' INTERVALS

STA. 144+50.00 (RD_50)

MAINTAIN PORTABLE PLASTIC DRUMS @ 50' INTERVALS FROM STAGE 1

101

WILLIAMS INDUSTRIAL BOULEVARD

LEGEND

CONSTRUCTED DURING A PREVIOUS STAGE

NEW CONSTRUCTION

REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21 (ANDERSON RD)

TRAFFIC CONTROL STAGE 2

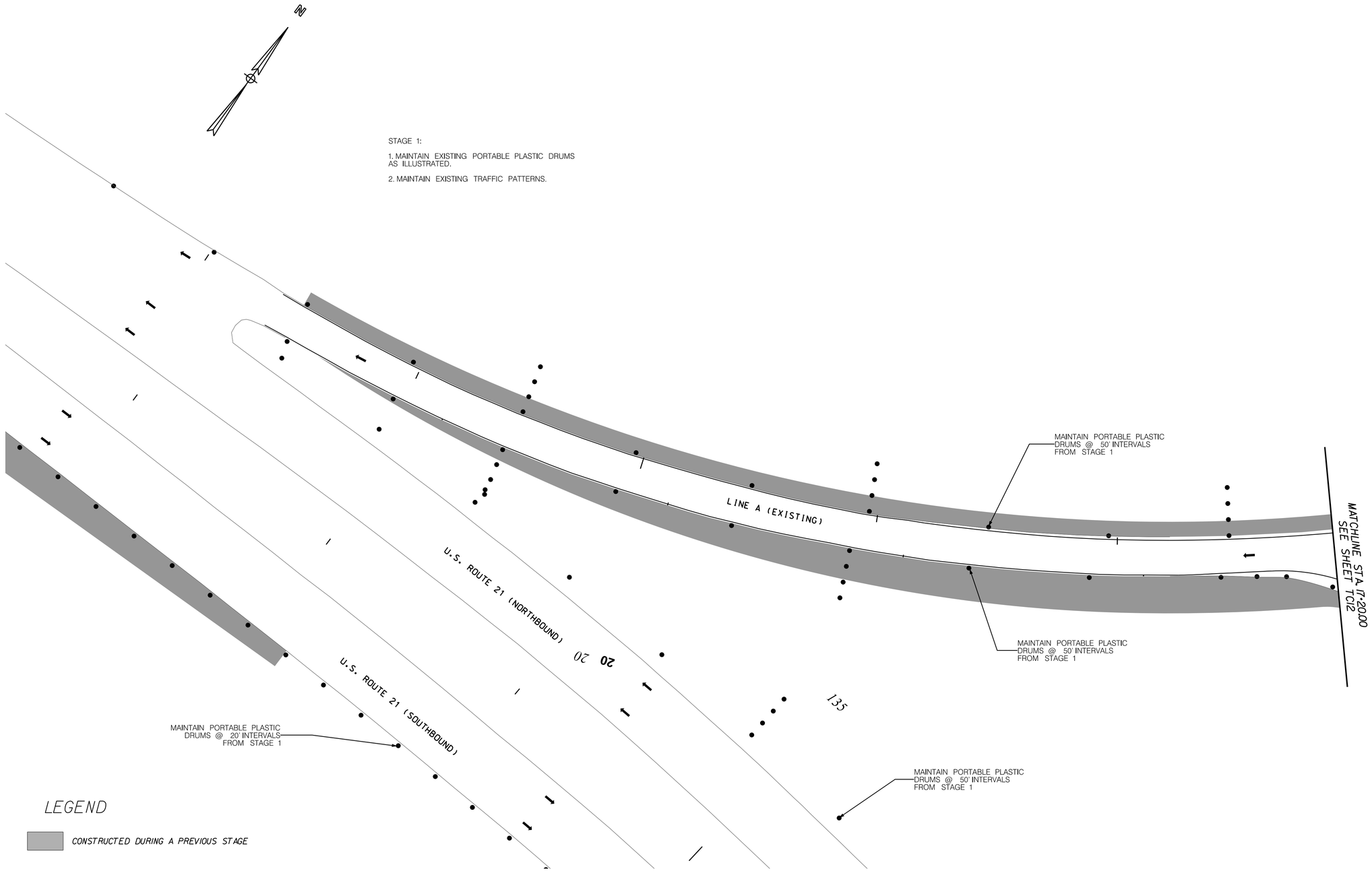
Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TCI4

STAGE 1:

1. MAINTAIN EXISTING PORTABLE PLASTIC DRUMS AS ILLUSTRATED.

2. MAINTAIN EXISTING TRAFFIC PATTERNS.



REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED
1	08/26/25	REVISED LINE A	R.L.D.	B.G.N.					

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21 (ANDERSON RD)

TRAFFIC CONTROL STAGE 2

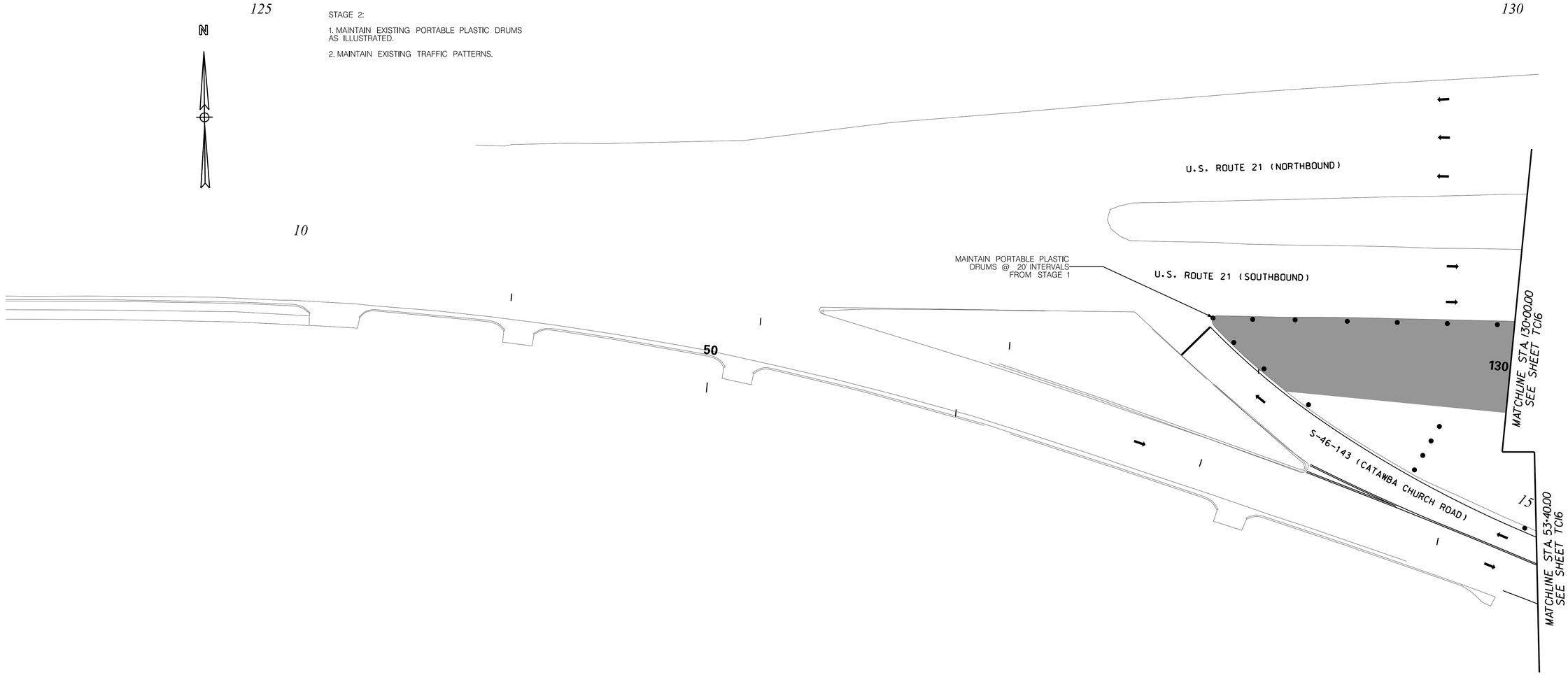
Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC15

STAGE 2:

1. MAINTAIN EXISTING PORTABLE PLASTIC DRUMS AS ILLUSTRATED.

2. MAINTAIN EXISTING TRAFFIC PATTERNS.



LEGEND

CONSTRUCTED DURING A PREVIOUS STAGE

REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

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APPROVED BY : R.L.D.
DATE : 09/14/23

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER ROBERT LEE DRUMOND No. 30342

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

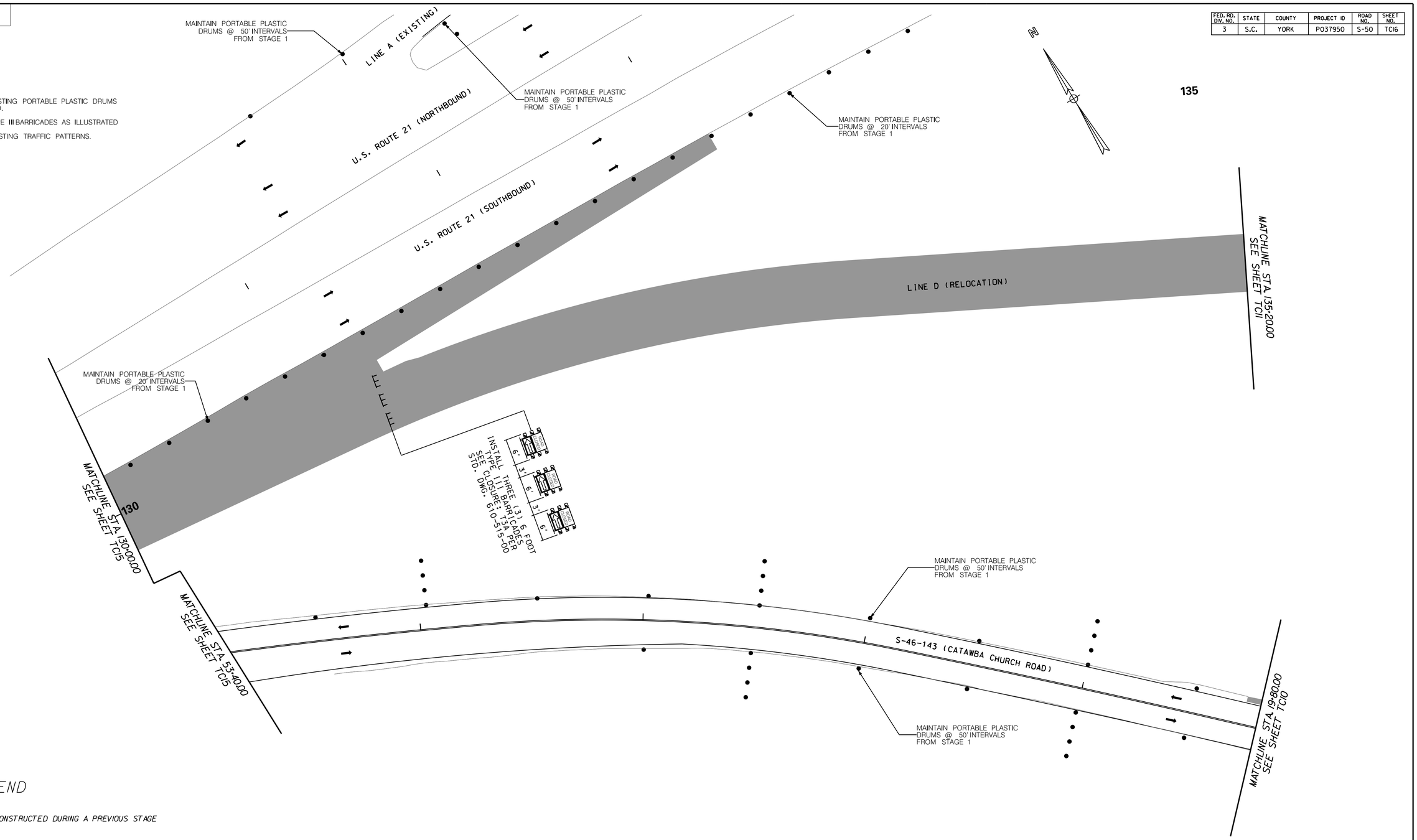
TRAFFIC CONTROL STAGE 2

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TCI6

STAGE 2:

1. MAINTAIN EXISTING PORTABLE PLASTIC DRUMS AS ILLUSTRATED.
2. MAINTAIN TYPE III BARRICADES AS ILLUSTRATED
3. MAINTAIN EXISTING TRAFFIC PATTERNS.



LEGEND

CONSTRUCTED DURING A PREVIOUS STAGE

REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

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DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 0

SCALE: 1" = 20' HORIZ

SOUTH CAROLINA — CHA, Inc. No. 4478 — CERTIFICATE OF AUTHORIZATION

9/23/2025

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 30342 — ROBERT LEE DRUMMOND

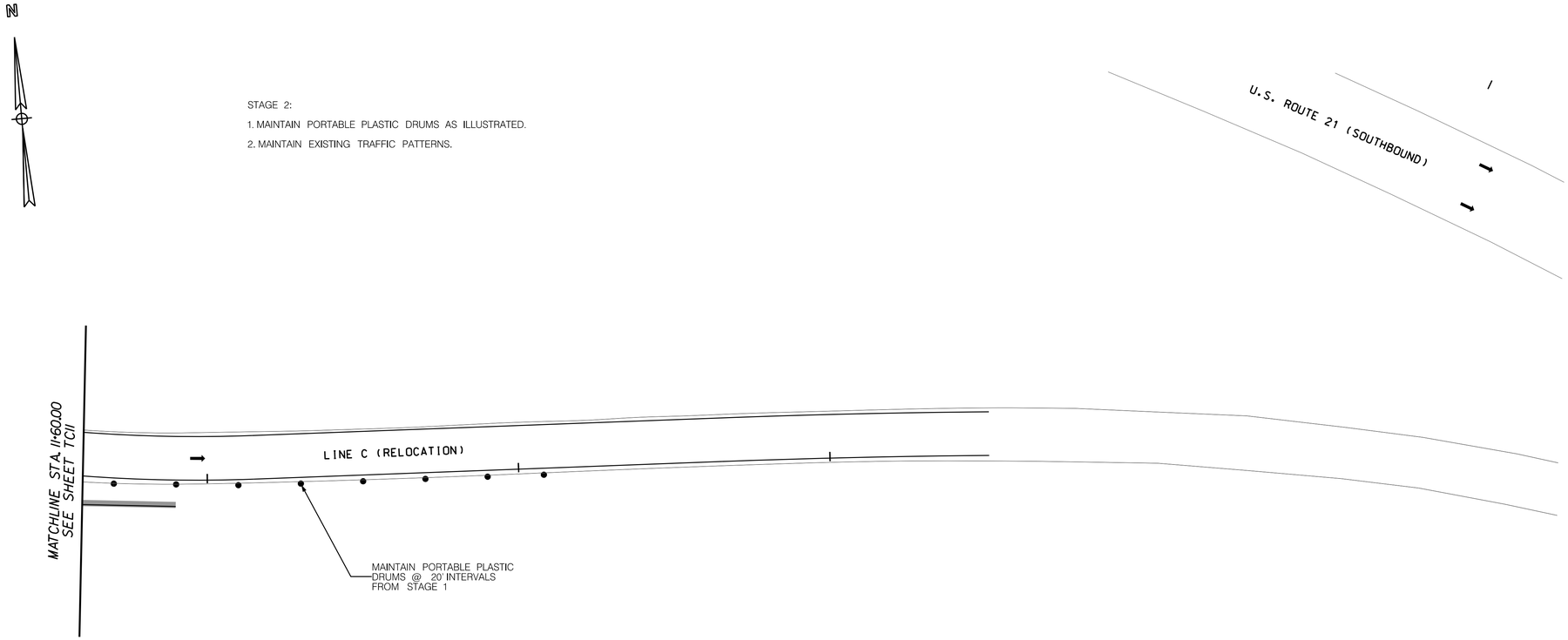
YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

TRAFFIC CONTROL STAGE 2

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TCI7



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DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

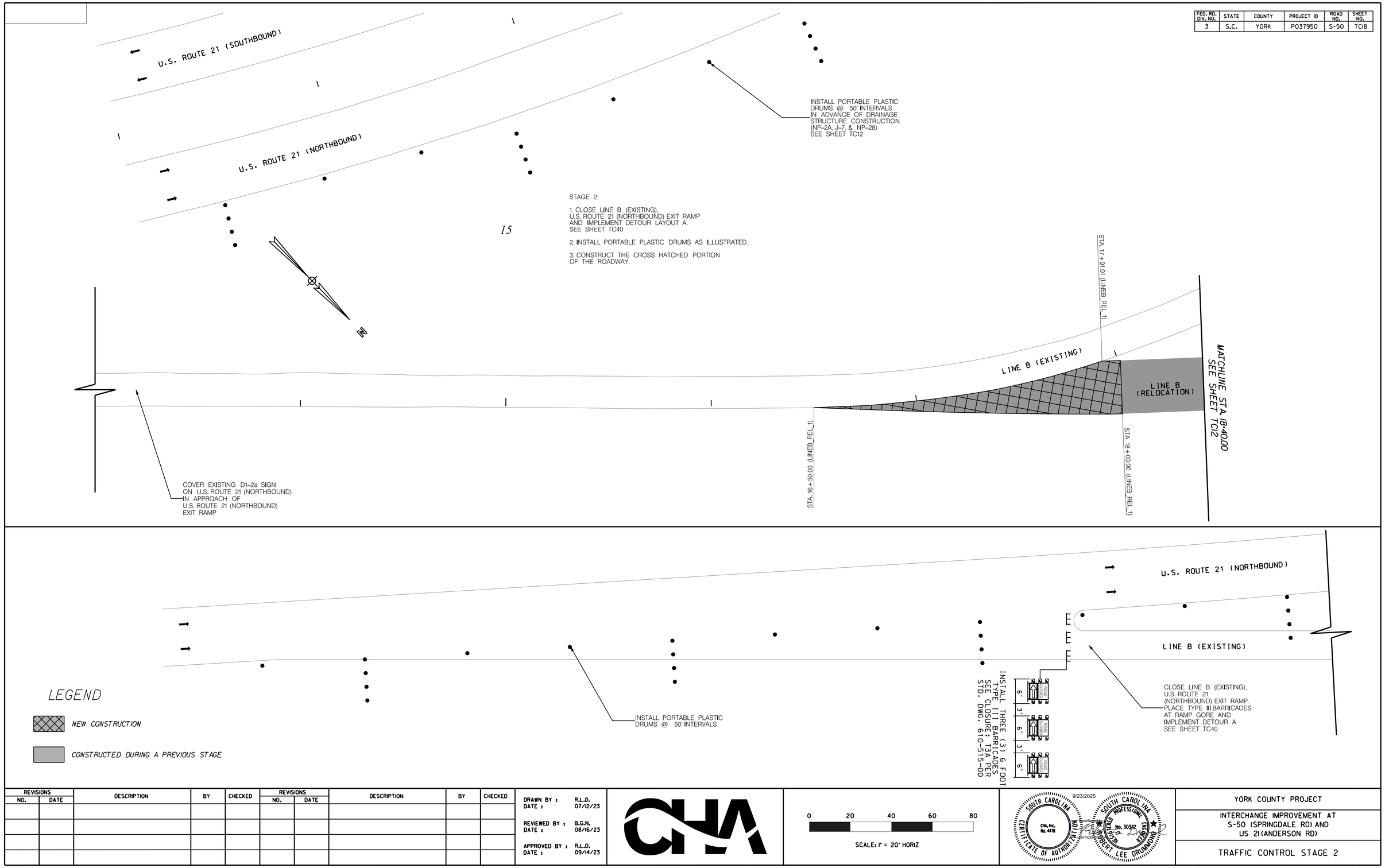
YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

TRAFFIC CONTROL STAGE 2

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TCI8



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APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80
SCALE: 1" = 20' HORIZ

9/23/2025
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478
SOUTH CAROLINA PROFESSIONAL ENGINEER ROBERT LEE DRUMMOND No. 30342

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

TRAFFIC CONTROL STAGE 2

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC19

STAGE 2A:

1. CLOSE LINE C (EXISTING), U.S. ROUTE 21 (SOUTHBOUND) ENTRANCE RAMP AND IMPLEMENT DETOUR LAYOUT A. SEE SHEET TC40.

2. MAINTAIN TRAFFIC ALIGNMENT FROM STAGE 2 ON S-46-50 (SPRINGDALE ROAD) AS ILLUSTRATED.

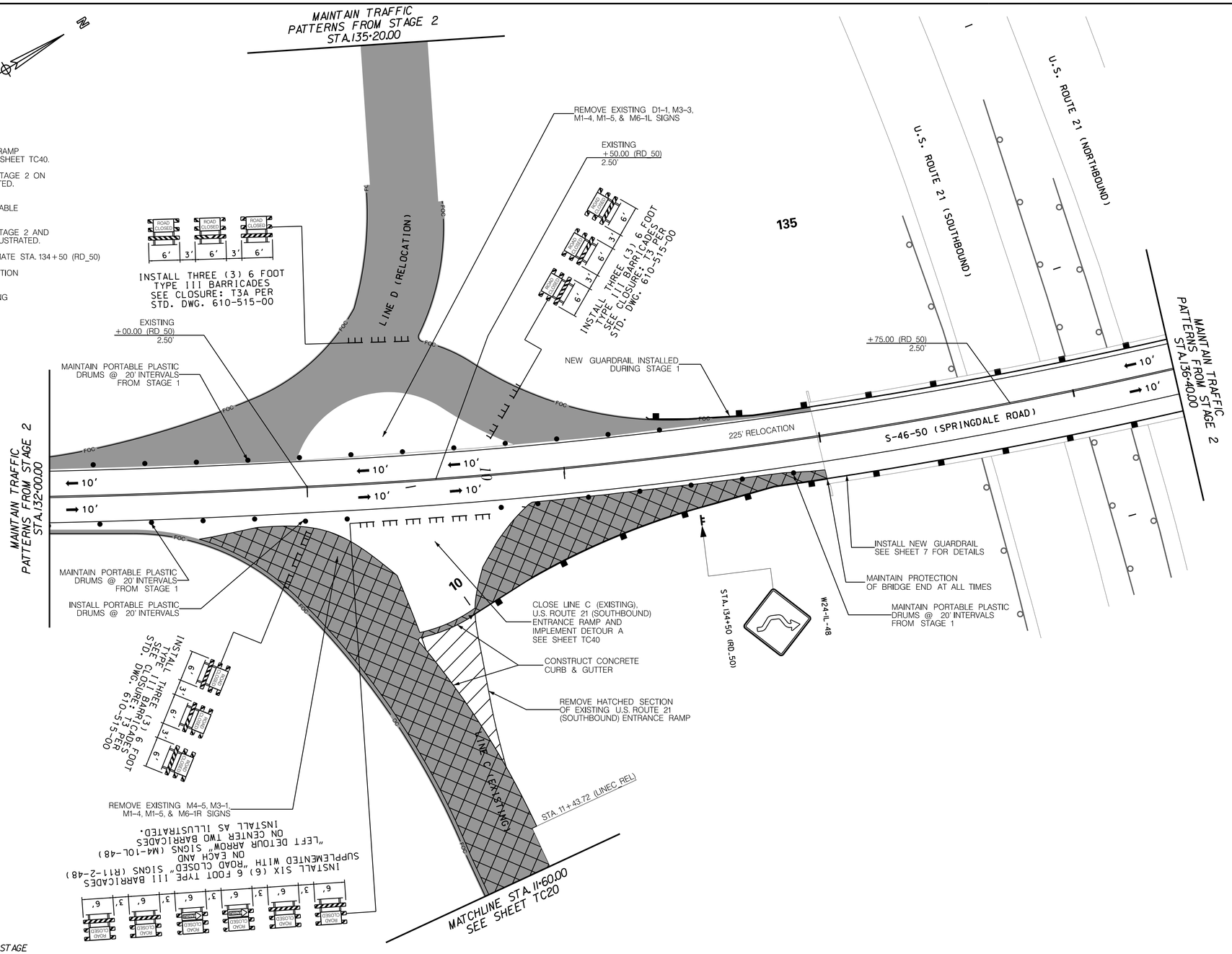
3. MAINTAIN PORTABLE PLASTIC DRUMS FROM STAGE 2 AND INSTALL NEW PORTABLE PLASTIC DRUMS AS ILLUSTRATED.

4. MAINTAIN TYPE III BARRICADES FROM STAGE 2 AND INSTALL NEW TYPE III BARRICADES AS ILLUSTRATED.

5. MAINTAIN W24-1L-48 SIGN AT APPROXIMATE STA. 134+50 (RD_50)

6. CONSTRUCT THE CROSS HATCHED PORTION OF THE ROADWAY.

7. REMOVE HATCHED PORTION OF EXISTING PAVEMENT ON LINE C (EXISTING), U.S. ROUTE 21 (SOUTHBOUND) ENTRANCE RAMP.



LEGEND

- PAVEMENT REMOVAL
- NEW CONSTRUCTION
- CONSTRUCTED DURING A PREVIOUS STAGE

REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA — CHA, Inc. No. 4478 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 30342 — ROBERT LEE DRUMMOND

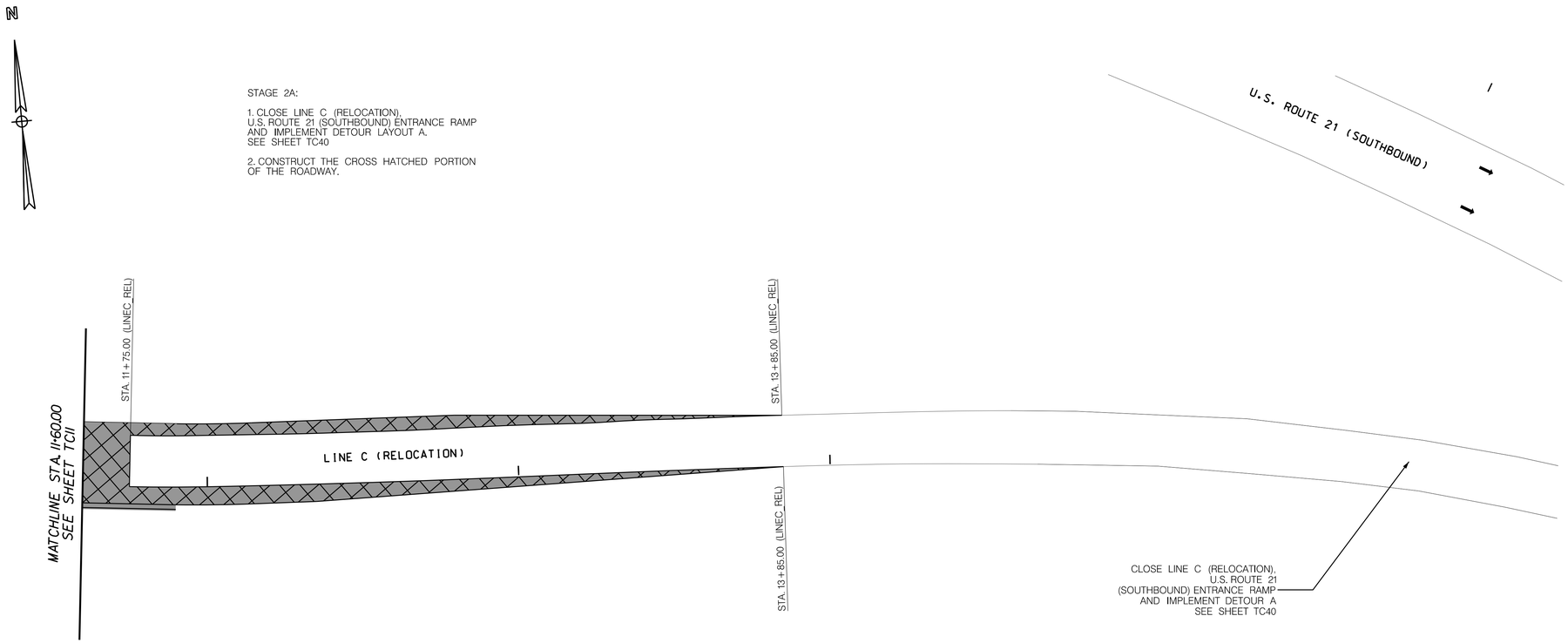
YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21 (ANDERSON RD)

TRAFFIC CONTROL STAGE 2A

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC20



REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

0 20 40 60 80
SCALE: 1" = 20' HORIZ

9/23/2025
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21 (ANDERSON RD)

TRAFFIC CONTROL STAGE 2A

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC21

STAGE 3:

1. MAINTAIN ALL-WAY STOP CONTROL AT INTERSECTION OF S-46-50 (SPRINGDALE ROAD) AND S-46-143 (CATAWBA CHURCH ROAD).

2. IMPLEMENT TRUCK DETOUR ON S-46-50 (SPRINGDALE ROAD). SEE SHEET TC41.

3. APPLY TEMPORARY PAVEMENT MARKING PATTERNS ACCORDING TO THE PERMANENT PAVEMENT MARKINGS ON SHEET PM1 AND SHIFT TRAFFIC ONTO NEW TRAFFIC PATTERNS AS DIRECTED BY THE PLANS.

4. INSTALL W2-6-30 AND W13-1P-18-15 SIGNS, SEE SHEET SN5

130

20

MATCHLINE STA. 19+80.00 SEE SHEET TC27

S-46-143 (CATAWBA CHURCH ROAD)

S-46-50 (SPRINGDALE ROAD)

S-46-50 (SPRINGDALE ROAD)

FOC

MATCHLINE STA. 132+00.00 SEE SHEET TC22

S-46-143 (CATAWBA CHURCH ROAD)

INSTALL W2-6-30 & W13-1P-18-15 SIGNS SEE SHEET SN5

18 MPH

LEGEND

CONSTRUCTED DURING A PREVIOUS STAGE

REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21 (ANDERSON RD)

TRAFFIC CONTROL STAGE 3

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC22

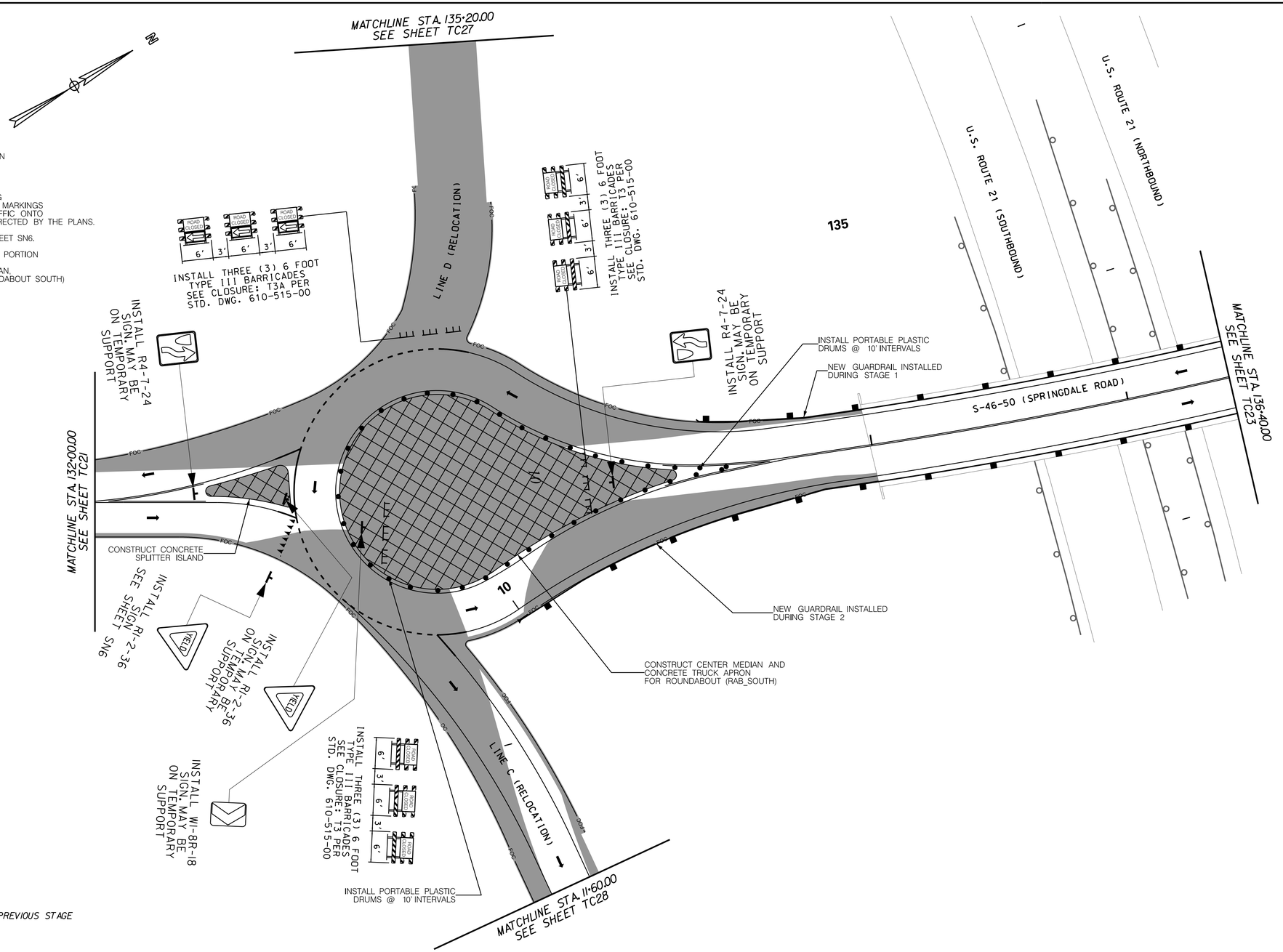
STAGE 3:

1. IMPLEMENT TRUCK DETOUR ON S-46-50 (SPRINGDALE ROAD). SEE SHEET TC41.

2. APPLY TEMPORARY PAVEMENT MARKING PATTERNS ACCORDING TO THE PERMANENT PAVEMENT MARKINGS ON SHEET PM2 AND SHIFT TRAFFIC ONTO NEW TRAFFIC PATTERNS AS DIRECTED BY THE PLANS.

3. INSTALL R1-2-36 SIGN, SEE SHEET SN6.

4. CONSTRUCT CROSS HATCHED PORTION OF THE ROADWAY (SPLITTER ISLAND, CENTER MEDIAN, AND TRUCK APRON FOR ROUNDABOUT SOUTH)



LEGEND

CONSTRUCTED DURING A PREVIOUS STAGE

NEW CONSTRUCTION

REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D. DATE : 07/12/23

REVIEWED BY : B.G.N. DATE : 08/16/23

APPROVED BY : R.L.D. DATE : 09/14/23

SCALE: 1" = 20' HORIZ

9/23/2025

CHA, Inc. No. 4478 — CERTIFICATE OF AUTHORIZATION NO

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21 (ANDERSON RD)

TRAFFIC CONTROL STAGE 3

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC23

STAGE 3:

1. IMPLEMENT TRUCK DETOUR ON S-46-50 (SPRINGDALE ROAD). SEE SHEET TC41.

2. APPLY TEMPORARY PAVEMENT MARKING PATTERNS ACCORDING TO THE PERMANENT PAVEMENT MARKINGS ON PM3 AND SHIFT TRAFFIC ONTO NEW TRAFFIC PATTERNS AS DIRECTED BY THE PLANS.

3. INSTALL (3) R1-2-36 SIGNS, SEE SHEET SN7

4. INSTALL NEW PORTABLE PLASTIC DRUMS AND TYPE III BARRICADES AS ILLUSTRATED.

5. CONSTRUCT THE CROSS HATCHED PORTIONS OF THE ROADWAY.

6. REMOVE HATCHED PORTION OF LINE E (EXISTING), U.S. ROUTE 21 (NORTHBOUND) ENTRANCE RAMP AND LINE B (EXISTING), U.S. ROUTE 21 (NORTHBOUND) EXIT RAMP AND TEMPORARY PAVEMENT.

N

MATCHLINE STA. 17+20.00 SEE SHEET TC25

INSTALL WI-8R-18 SIGN. MAY BE ON TEMPORARY SUPPORT

INSTALL THREE (3) 6 FOOT TYPE III BARRICADES SEE CLOSURE: T3 PER STD. DWG. 610-515-00

INSTALL RI-2-36 SEE SIGN SHEET SN7

INSTALL RI-2-36 SIGN. MAY BE ON TEMPORARY SUPPORT

INSTALL THREE (3) 6 FOOT TYPE III BARRICADES SEE CLOSURE: T3 PER STD. DWG. 610-515-00

LINE E (RELOCATION)

LINE E (EXISTING)

STA. 139+00.89 (SCORE)

STA. 141+15.03 (SCORE)

INSTALL R4-7-24 SIGN. MAY BE ON TEMPORARY SUPPORT

REMOVE HATCHED SECTION OF LINE E (EXISTING), U.S. ROUTE 21 (NORTHBOUND) ENTRANCE RAMP

STA. 139+21.92 (SCORE)

CONSTRUCT CONCRETE CURB & GUTTER

NEW GUARDRAIL INSTALLED DURING STAGE 1

INSTALL PORTABLE PLASTIC DRUMS @ 20' INTERVALS

MATCHLINE STA. 136+40.00 SEE SHEET TC22

S-46-50 (SPRINGDALE ROAD)

REMOVE TEMPORARY PAVEMENT

STA. 140+50.17 (SCORE)

CONSTRUCT CONCRETE CURB & GUTTER

REMOVE TEMPORARY PAVEMENT

LINE A (RELOCATION)

MATCHLINE LINE A REL-STA. 13+60.00 SEE SHEET TC24

S-46-50 (SPRINGDALE ROAD)

NEW GUARDRAIL INSTALLED DURING STAGE 2

INSTALL PORTABLE PLASTIC DRUMS @ 10' INTERVALS

NP-9 INSTALLED IN STAGE 2

J-2 INSTALLED IN STAGE 2

NP-28 INSTALLED IN STAGE 2

REMOVE HATCHED PORTION OF EXISTING PAVEMENT ON LINE B (EXISTING), U.S. ROUTE 21 (NORTHBOUND) EXIT RAMP

INSTALL PORTABLE PLASTIC DRUMS @ 10' INTERVALS

U.S. ROUTE 21 (NORTHBOUND)

J-7 INSTALLED IN STAGE 2

NP-2A INSTALLED IN STAGE 2

INSTALL THREE (3) 6 FOOT TYPE III BARRICADES SEE CLOSURE: T3 PER STD. DWG. 610-515-00

LINE B (EXISTING)

LINE B (RELOCATION)

INSTALL (2) RI-2-36 SEE SIGNS SHEET SN7

INSTALL THREE (3) 6 FOOT TYPE III BARRICADES SEE CLOSURE: T3 PER STD. DWG. 610-515-00

INSTALL WI-8R-18 SIGN. MAY BE ON TEMPORARY SUPPORT

INSTALL PORTABLE PLASTIC DRUMS @ 20' INTERVALS

MATCHLINE STA. 18+40.00 SEE SHEET TC29

LEGEND

- CONSTRUCTED DURING A PREVIOUS STAGE
- REMOVE EXISTING PAVEMENT
- NEW CONSTRUCTION

REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED
1	08/26/25	REVISED LINE A	R.L.D.	B.G.N.

REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA — CHA, Inc. No. 4478 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 30342 — ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

TRAFFIC CONTROL STAGE 3

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC24

N

STAGE 3:

1. IMPLEMENT TRUCK DETOUR ON S-46-50 (SPRINGDALE ROAD). SEE SHEET TC41.

2. APPLY TEMPORARY PAVEMENT MARKING PATTERNS ACCORDING TO THE PERMANENT PAVEMENT MARKINGS ON SHEET PM4 AND SHIFT TRAFFIC ONTO NEW TRAFFIC PATTERNS AS DIRECTED BY THE PLANS.

3. INSTALL W2-6-30 AND W13-1P-18-15 SIGNS SEE SHEET SN8

4. INSTALL PORTABLE PLASTIC DRUMS AS ILLUSTRATED.

145

MATCHLINE LINE A REL STA 136+00.00
SEE SHEET TC23

LINE A (RELOCATION)

MATCHLINE STA 142+20.00
SEE SHEET TC23

INSTALL PORTABLE PLASTIC DRUMS @ 20' INTERVALS

S-46-50 (SPRINGDALE ROAD)

S-46-50 (SPRINGDALE ROAD)

15 MPH

INSTALL W2-6-30 & W13-1P-18-15 SIGNS SEE SHEET SN8

WILLIAMS INDUSTRIAL BOULEVARD

10

LEGEND

CONSTRUCTED DURING A PREVIOUS STAGE

REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21 (ANDERSON RD)

TRAFFIC CONTROL STAGE 3

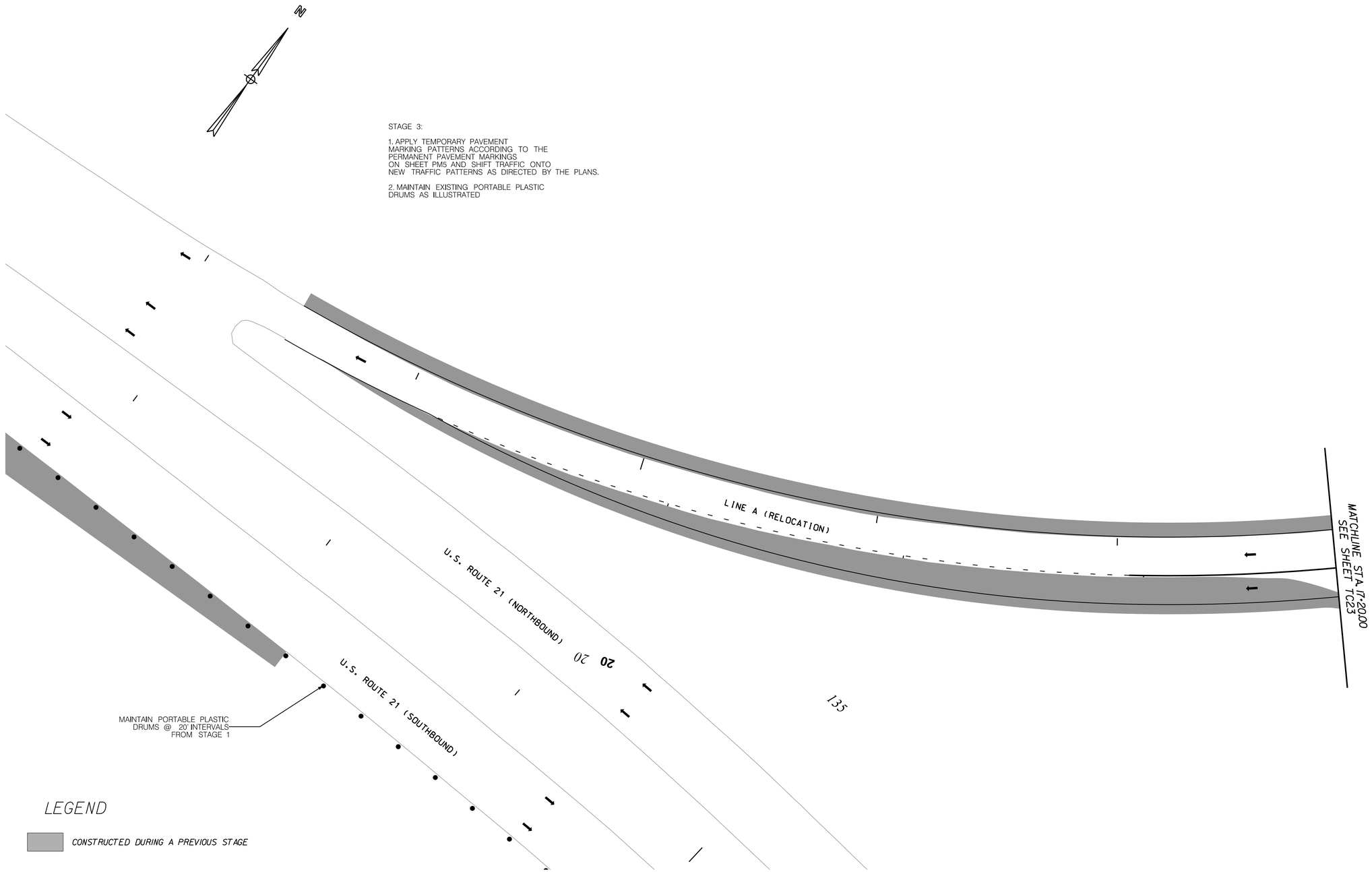
Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC25

STAGE 3:

1. APPLY TEMPORARY PAVEMENT MARKING PATTERNS ACCORDING TO THE PERMANENT PAVEMENT MARKINGS ON SHEET PM5 AND SHIFT TRAFFIC ONTO NEW TRAFFIC PATTERNS AS DIRECTED BY THE PLANS.

2. MAINTAIN EXISTING PORTABLE PLASTIC DRUMS AS ILLUSTRATED



REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED
1	08/26/25	REVISED LINE A	R.L.D.	B.G.N.					

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

TRAFFIC CONTROL STAGE 3

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC26

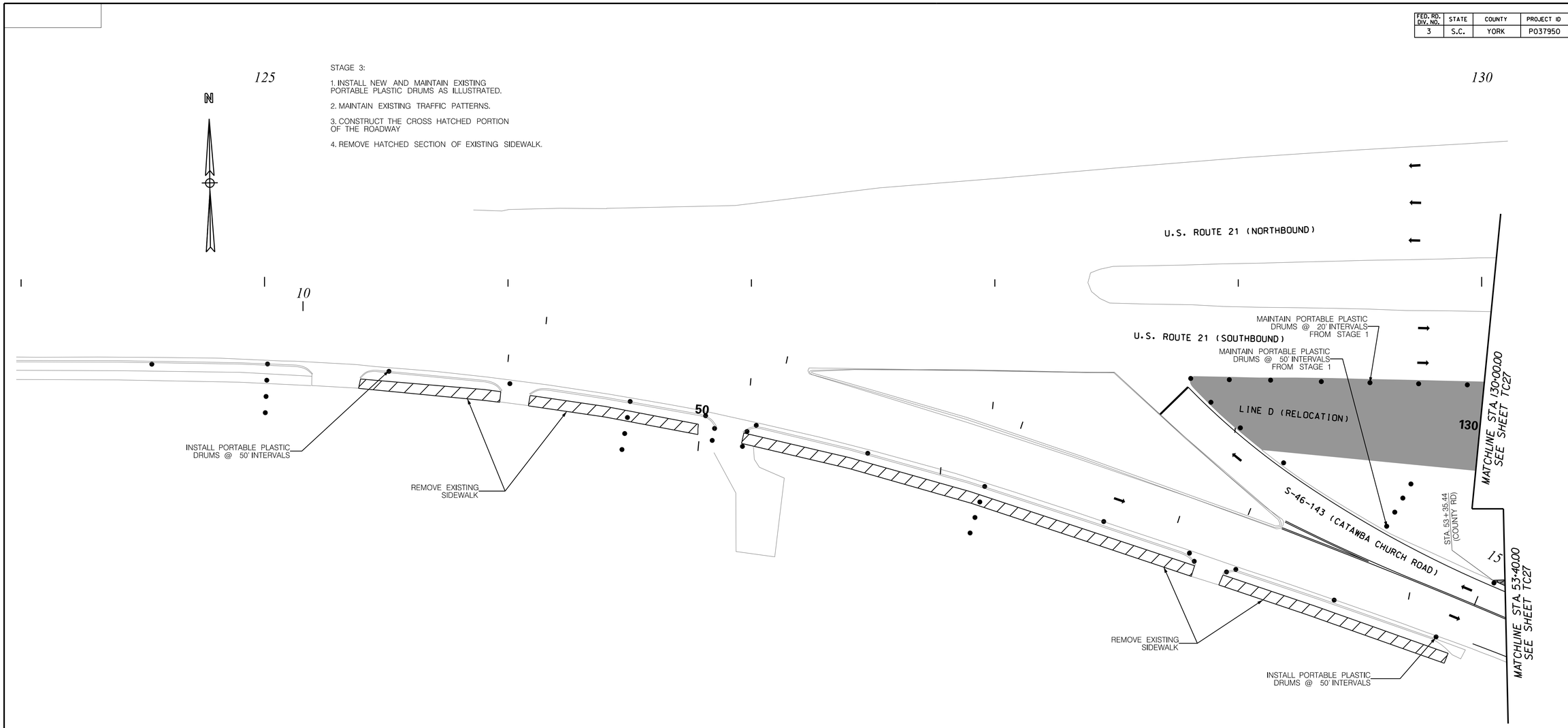
STAGE 3:

1. INSTALL NEW AND MAINTAIN EXISTING PORTABLE PLASTIC DRUMS AS ILLUSTRATED.

2. MAINTAIN EXISTING TRAFFIC PATTERNS.

3. CONSTRUCT THE CROSS HATCHED PORTION OF THE ROADWAY

4. REMOVE HATCHED SECTION OF EXISTING SIDEWALK.



LEGEND

CONSTRUCTED DURING A PREVIOUS STAGE

REMOVE EXISTING SIDEWALK

REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

9/23/2025

SOUTH CAROLINA PROFESSIONAL ENGINEER ROBERT LEE DRUMMOND No. 30342

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

TRAFFIC CONTROL STAGE 3

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

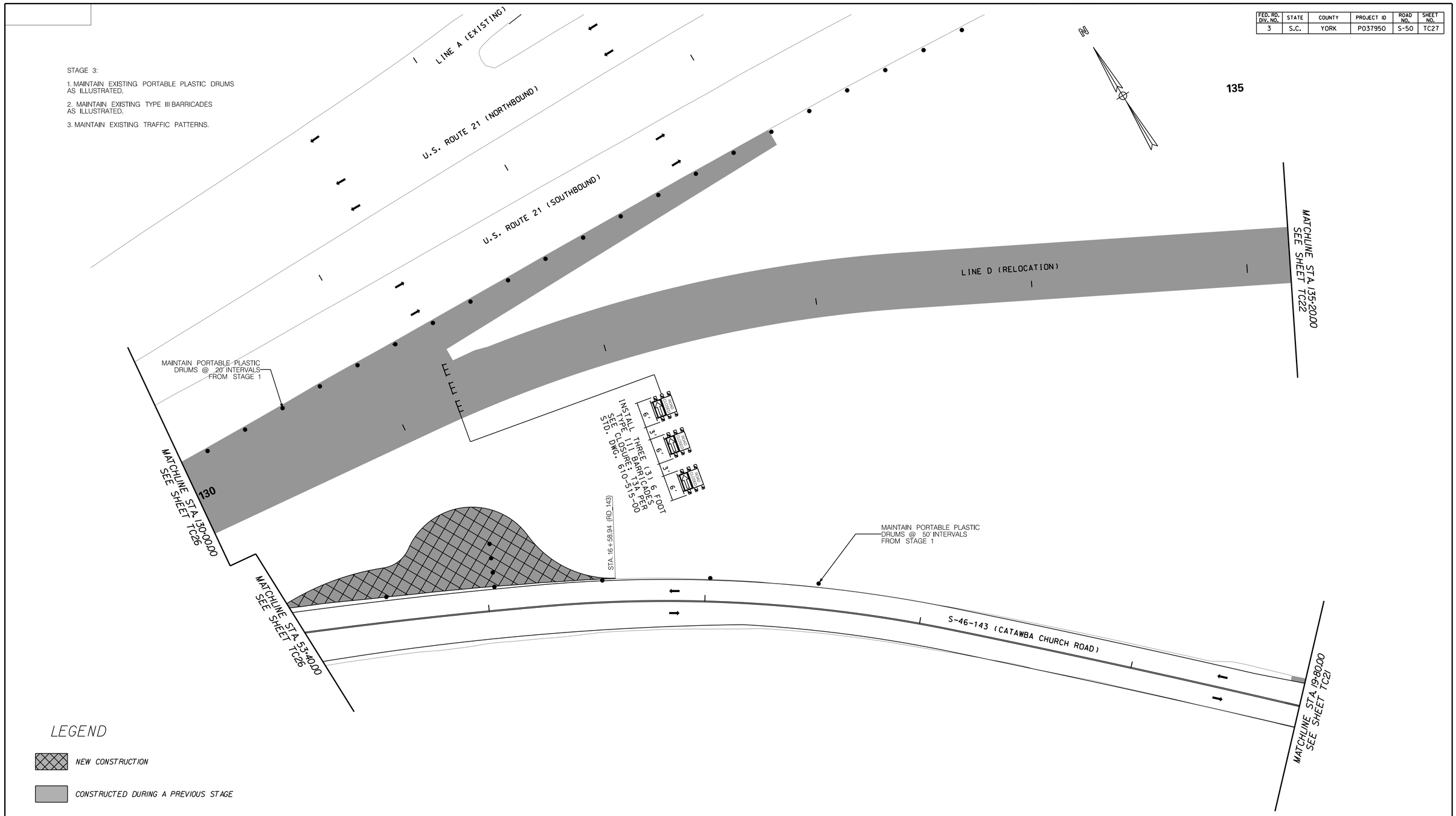
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC27

STAGE 3:

1. MAINTAIN EXISTING PORTABLE PLASTIC DRUMS AS ILLUSTRATED.

2. MAINTAIN EXISTING TYPE III BARRICADES AS ILLUSTRATED.

3. MAINTAIN EXISTING TRAFFIC PATTERNS.



LEGEND

NEW CONSTRUCTION

CONSTRUCTED DURING A PREVIOUS STAGE

REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 0

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

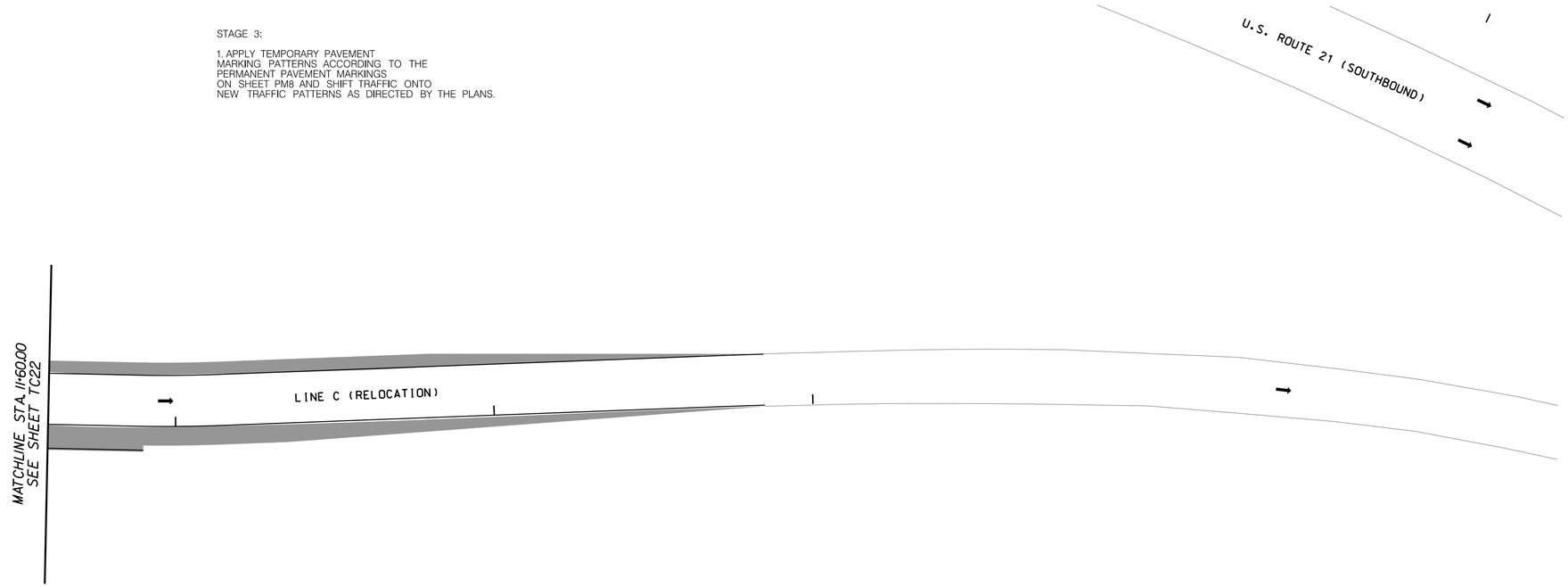
TRAFFIC CONTROL STAGE 3

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC28

STAGE 3:

1. APPLY TEMPORARY PAVEMENT MARKING PATTERNS ACCORDING TO THE PERMANENT PAVEMENT MARKINGS ON SHEET PM8 AND SHIFT TRAFFIC ONTO NEW TRAFFIC PATTERNS AS DIRECTED BY THE PLANS.



LEGEND

CONSTRUCTED DURING A PREVIOUS STAGE

REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

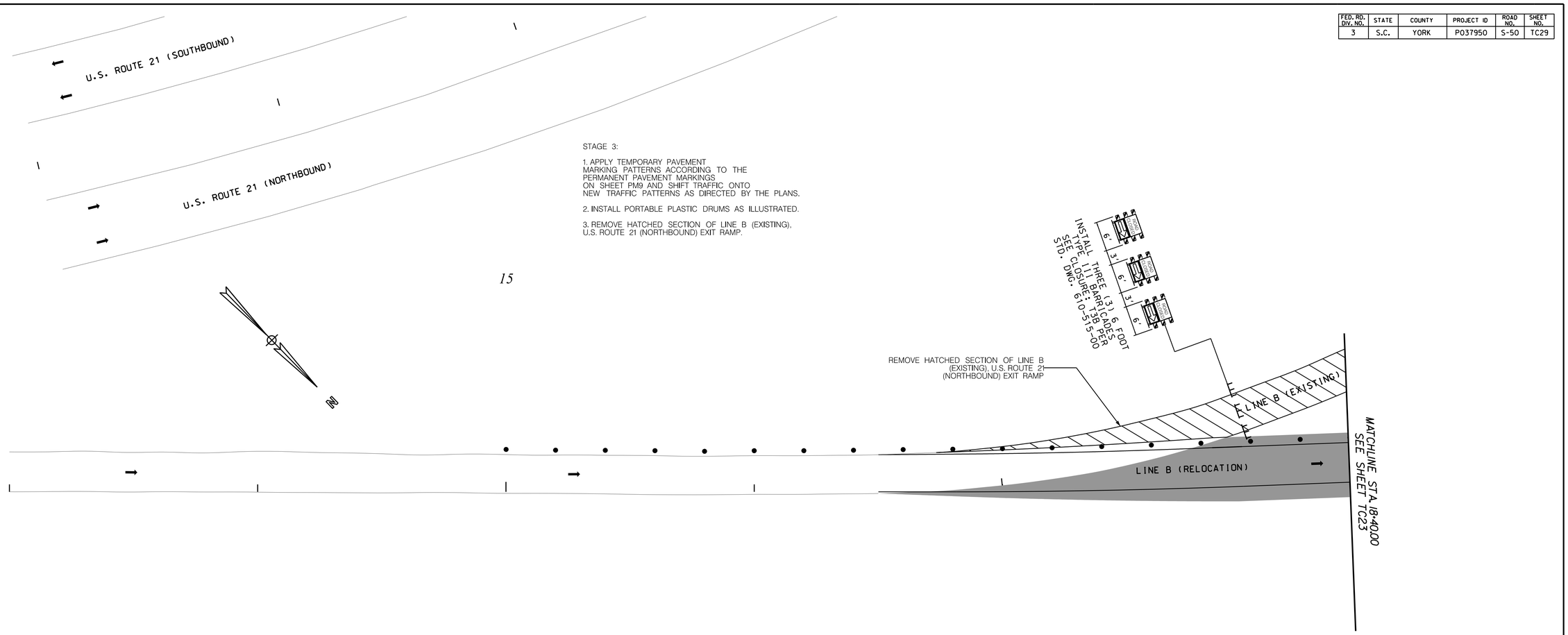
YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21 (ANDERSON RD)

TRAFFIC CONTROL STAGE 3

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC29



STAGE 3:

1. APPLY TEMPORARY PAVEMENT MARKING PATTERNS ACCORDING TO THE PERMANENT PAVEMENT MARKINGS ON SHEET PM9 AND SHIFT TRAFFIC ONTO NEW TRAFFIC PATTERNS AS DIRECTED BY THE PLANS.

2. INSTALL PORTABLE PLASTIC DRUMS AS ILLUSTRATED.

3. REMOVE HATCHED SECTION OF LINE B (EXISTING), U.S. ROUTE 21 (NORTHBOUND) EXIT RAMP.

LEGEND

REMOVE EXISTING PAVEMENT

CONSTRUCTED DURING A PREVIOUS STAGE

REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA — CHA, Inc. No. 4478 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 30345 — ROBERT LEE DRUMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

TRAFFIC CONTROL STAGE 3

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

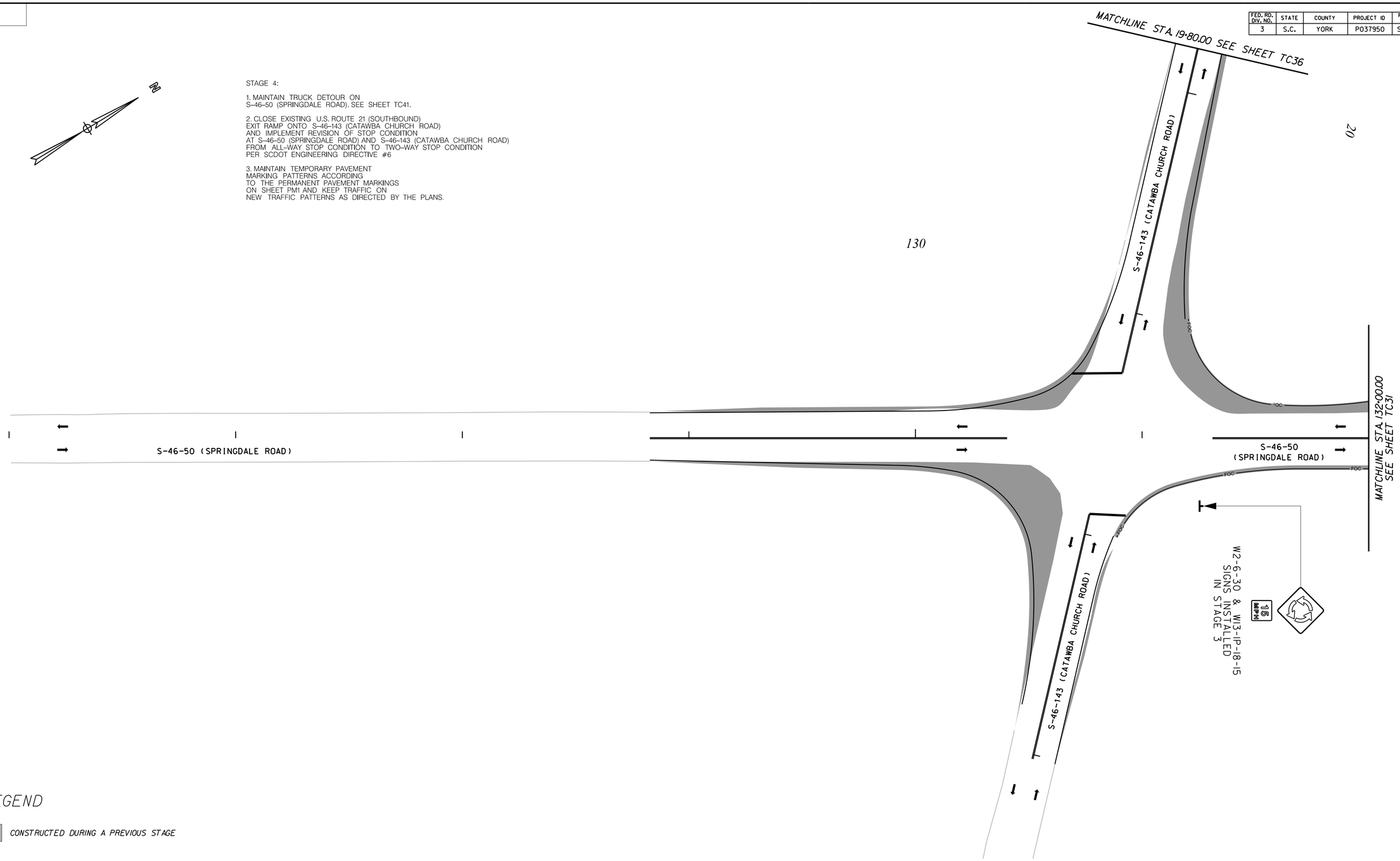
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC30

STAGE 4:

1. MAINTAIN TRUCK DETOUR ON S-46-50 (SPRINGDALE ROAD). SEE SHEET TC41.

2. CLOSE EXISTING U.S. ROUTE 21 (SOUTHBOUND) EXIT RAMP ONTO S-46-143 (CATAWBA CHURCH ROAD) AND IMPLEMENT REVISION OF STOP CONDITION AT S-46-50 (SPRINGDALE ROAD) AND S-46-143 (CATAWBA CHURCH ROAD) FROM ALL-WAY STOP CONDITION TO TWO-WAY STOP CONDITION PER SCDOT ENGINEERING DIRECTIVE #6

3. MAINTAIN TEMPORARY PAVEMENT MARKING PATTERNS ACCORDING TO THE PERMANENT PAVEMENT MARKINGS ON SHEET PM1 AND KEEP TRAFFIC ON NEW TRAFFIC PATTERNS AS DIRECTED BY THE PLANS.



LEGEND

CONSTRUCTED DURING A PREVIOUS STAGE

REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

0 20 40 60 80

SCALE: 1" = 20' HORIZ

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

9/23/2025

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

TRAFFIC CONTROL STAGE 4

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

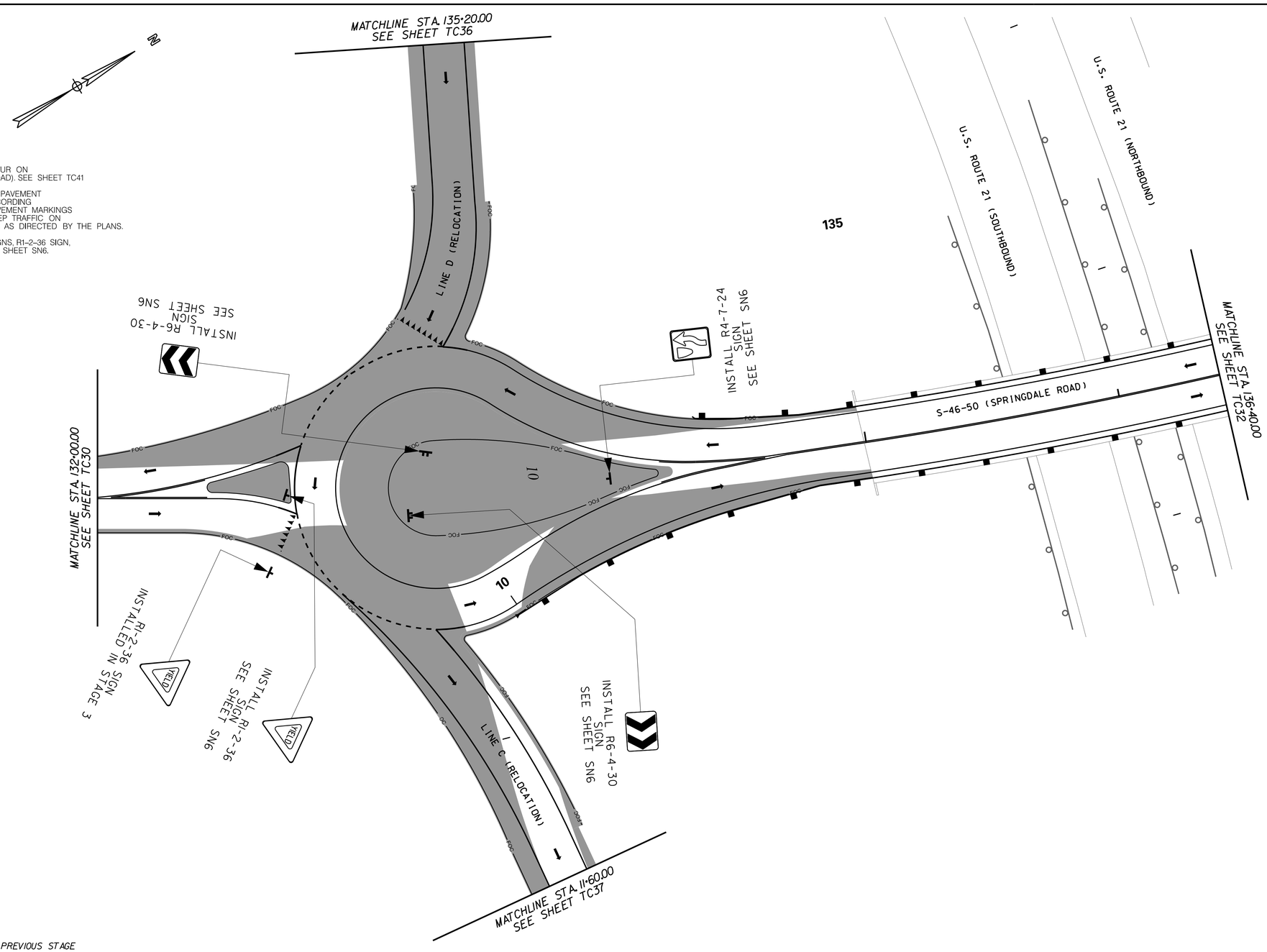
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC31

STAGE 4:

1. MAINTAIN TRUCK DETOUR ON S-46-50 (SPRINGDALE ROAD). SEE SHEET TC41

2. MAINTAIN TEMPORARY PAVEMENT MARKING PATTERNS ACCORDING TO THE PERMANENT PAVEMENT MARKINGS ON SHEET PM2 AND KEEP TRAFFIC ON NEW TRAFFIC PATTERNS AS DIRECTED BY THE PLANS.

3. INSTALL (2) R6-4-30 SIGNS, R1-2-36 SIGN, AND R4-7-24 SIGNS. SEE SHEET SN6.



LEGEND

CONSTRUCTED DURING A PREVIOUS STAGE

REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

SOUTH CAROLINA — CERTIFICATE OF AUTHORIZATION — CHA, Inc. No. 4478

8/23/2025

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 30342 — ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

TRAFFIC CONTROL STAGE 4

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC32

STAGE 4:

1. MAINTAIN TRUCK DETOUR ON S-46-50 (SPRINGDALE ROAD). SEE SHEET TC41.

2. MAINTAIN TEMPORARY PAVEMENT MARKING PATTERNS ACCORDING TO THE PERMANENT PAVEMENT MARKINGS ON SHEET PM3 AND KEEP TRAFFIC ON NEW TRAFFIC PATTERNS AS DIRECTED BY THE PLANS.

3. MAINTAIN EXISTING AND INSTALL NEW PORTABLE PLASTIC DRUMS AS ILLUSTRATED.

4. CONSTRUCT THE CROSS HATCHED PORTIONS OF THE ROADWAY. (SPLITTER ISLAND, CENTER MEDIAN, AND TRUCK APRON FOR ROUNDABOUT NORTH)

N

MATCHLINE STA. 17+20.00 SEE SHEET TC34

MAINTAIN W1-8R-18 SIGN. INSTALLED IN STAGE 3

INSTALL THREE (3) 6 FOOT TYPE III BARRICADES SEE CLOSURE: T3 PER STD. DWG. 610-515-00

RI-2-36 SIGN INSTALLED IN STAGE 3

MAINTAIN RI-2-36 SIGN. INSTALLED IN STAGE 3

INSTALL THREE (3) 6 FOOT TYPE III BARRICADES SEE CLOSURE: T3 PER STD. DWG. 610-515-00

LINE E (RELOCATION)

LINE A (RELOCATION)

MAINTAIN R4-7-24 SIGN. INSTALLED IN STAGE 3

MATCHLINE STA. 136+40.00 SEE SHEET TC31

S-46-50 (SPRINGDALE ROAD)

U.S. ROUTE 21 (NORTHBOUND)

140

15

10

NP-9 INSTALLED IN STAGE 2

J-2 INSTALLED IN STAGE 2

NP-28 INSTALLED IN STAGE 2

J-7 INSTALLED IN STAGE 2

NP-2A INSTALLED IN STAGE 2

MAINTAIN PORTABLE PLASTIC DRUMS @ 10' INTERVALS FROM STAGE 3

CONSTRUCT CENTER MEDIAN AND CONCRETE TRUCK APRON FOR ROUNDABOUT (RAB_NORTH)

INSTALL PORTABLE PLASTIC DRUMS @ 10' INTERVALS

CONSTRUCT CONCRETE SPLITTER ISLAND

MATCHLINE LINE A REL.STA. 13+60.00 SEE SHEET TC33

MATCHLINE STA. 142+20.00 SEE SHEET TC33

LINE B (RELOCATION)

(2) RI-2-36 SIGNS INSTALLED IN STAGE 3

INSTALL THREE (3) 6 FOOT TYPE III BARRICADES SEE CLOSURE: T3 PER STD. DWG. 610-515-00

MAINTAIN W1-8R-18 SIGN. INSTALLED IN STAGE 3

MATCHLINE STA. 18+40.00 SEE SHEET TC38

LEGEND

CONSTRUCTED DURING A PREVIOUS STAGE

NEW CONSTRUCTION

REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED
1	08/26/25	REVISED LINE A	R.L.D.	B.G.N.					

DRAWN BY : R.L.D. DATE : 07/12/23

REVIEWED BY : B.G.N. DATE : 08/16/23

APPROVED BY : R.L.D. DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CHA, Inc. No. 4478 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

TRAFFIC CONTROL STAGE 4

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC33

N

STAGE 4:

1. MAINTAIN TRUCK DETOUR ON S-46-50 (SPRINGDALE ROAD). SEE SHEET TC41.

2. MAINTAIN TEMPORARY PAVEMENT MARKING PATTERNS ACCORDING TO THE PERMANENT PAVEMENT MARKINGS ON SHEET PM4 AND KEEP TRAFFIC ON NEW TRAFFIC PATTERNS AS DIRECTED BY THE PLANS.

145

MATCHLINE LINE A REL STA 136+00.00
SEE SHEET TC32

LINE A
(RELOCATION)

MATCHLINE STA 142+20.00
SEE SHEET TC32

S-46-50 (SPRINGDALE ROAD)

S-46-50 (SPRINGDALE ROAD)

15 MPH

W2-6-30 & W13-1P-18-15 SIGNS IN STAGE 3

WILLIAMS INDUSTRIAL BOULEVARD

01

LEGEND

CONSTRUCTED DURING A PREVIOUS STAGE

REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

9/23/2025

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No: 30348 ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

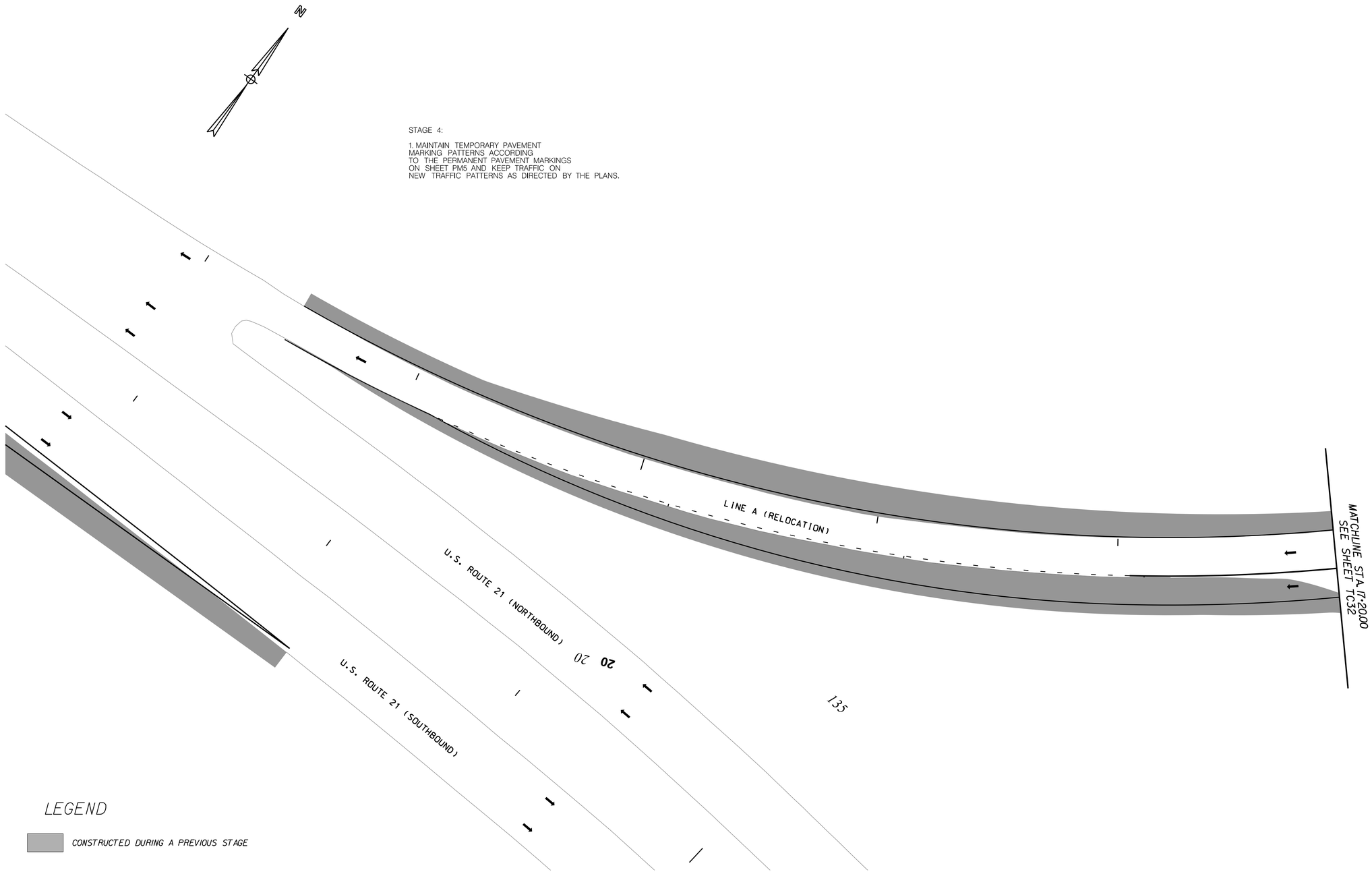
TRAFFIC CONTROL STAGE 4

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC34

STAGE 4:

1. MAINTAIN TEMPORARY PAVEMENT MARKING PATTERNS ACCORDING TO THE PERMANENT PAVEMENT MARKINGS ON SHEET PM5 AND KEEP TRAFFIC ON NEW TRAFFIC PATTERNS AS DIRECTED BY THE PLANS.



REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED
1	08/26/25	REVISED LINE A	R.L.D.	B.G.N.					

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA PROFESSIONAL ENGINEER ROBERT LEE DRUMMOND No. 36342

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

TRAFFIC CONTROL STAGE 4

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC35

STAGE 4:

1. CLOSE S-46-143 (CATAWBA CHURCH ROAD) RAMP ONTO U.S. ROUTE 21 NORTHBOUND.

2. RELOCATE LINE D (EXISTING), U.S. ROUTE 21 (SOUTHBOUND) EXIT RAMP ONTO TEMPORARY U.S. ROUTE 21 (SOUTHBOUND) EXIT RAMP. CLOSE LINE D (EXISTING), U.S. ROUTE 21 (SOUTHBOUND).

3. OPEN COUNTY ACCESS ROAD TO TRAFFIC.

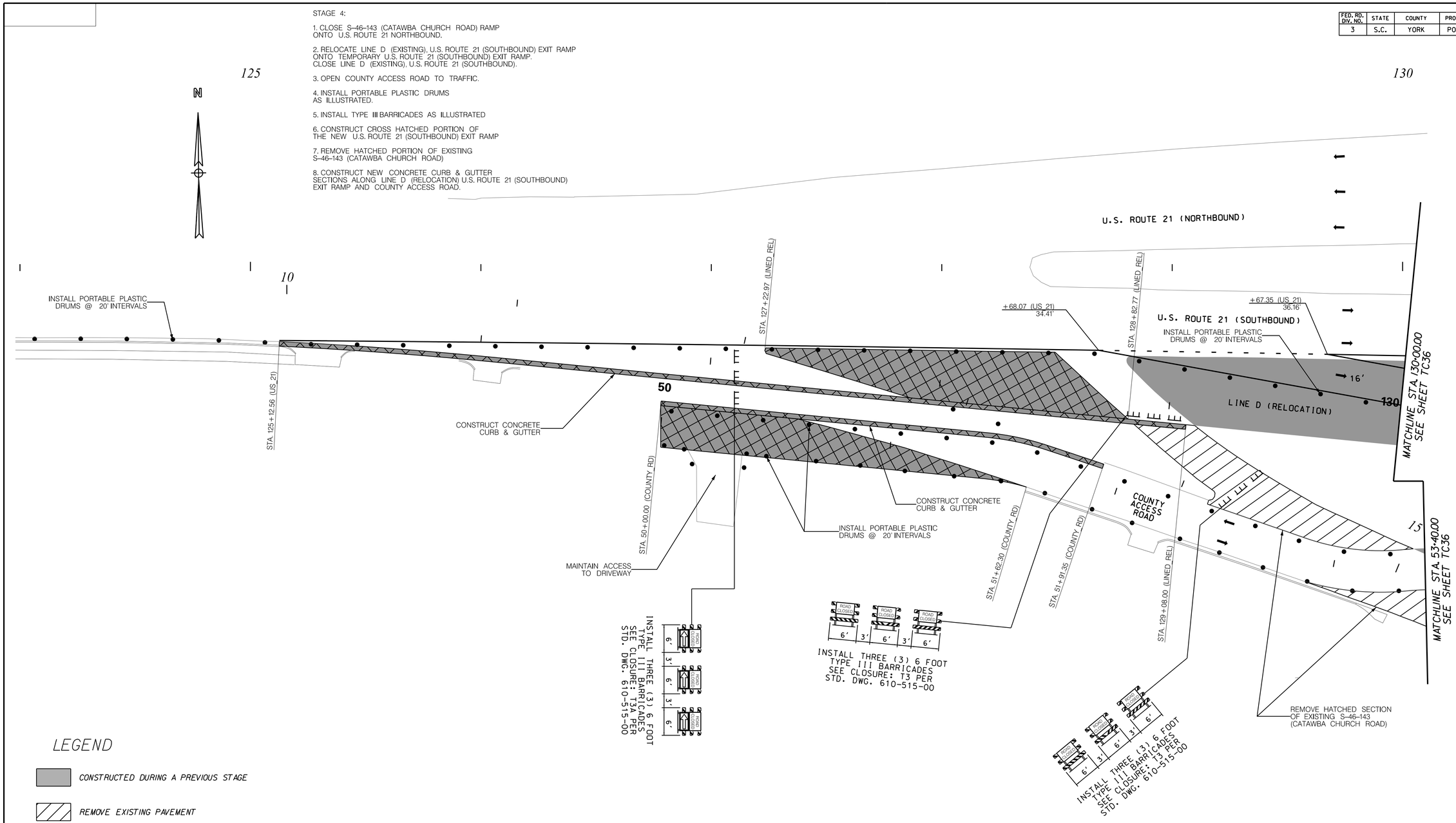
4. INSTALL PORTABLE PLASTIC DRUMS AS ILLUSTRATED.

5. INSTALL TYPE III BARRICADES AS ILLUSTRATED

6. CONSTRUCT CROSS HATCHED PORTION OF THE NEW U.S. ROUTE 21 (SOUTHBOUND) EXIT RAMP

7. REMOVE HATCHED PORTION OF EXISTING S-46-143 (CATAWBA CHURCH ROAD)

8. CONSTRUCT NEW CONCRETE CURB & GUTTER SECTIONS ALONG LINE D (RELOCATION) U.S. ROUTE 21 (SOUTHBOUND) EXIT RAMP AND COUNTY ACCESS ROAD.



LEGEND

- CONSTRUCTED DURING A PREVIOUS STAGE
- REMOVE EXISTING PAVEMENT
- NEW CONSTRUCTION

REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA PROFESSIONAL ENGINEER ROBERT LEE DRUMMOND No: 30348

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

TRAFFIC CONTROL STAGE 4

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC36

STAGE 4:

1. CLOSE S-46-143 (CATAWBA CHURCH ROAD) RAMP ONTO U.S. ROUTE 21 NORTHBOUND.

2. RELOCATE LINE D (EXISTING), U.S. ROUTE 21 (SOUTHBOUND) EXIT RAMP ONTO TEMPORARY U.S. ROUTE 21 (SOUTHBOUND) EXIT RAMP. CLOSE LINE D (EXISTING), U.S. ROUTE 21 (SOUTHBOUND).

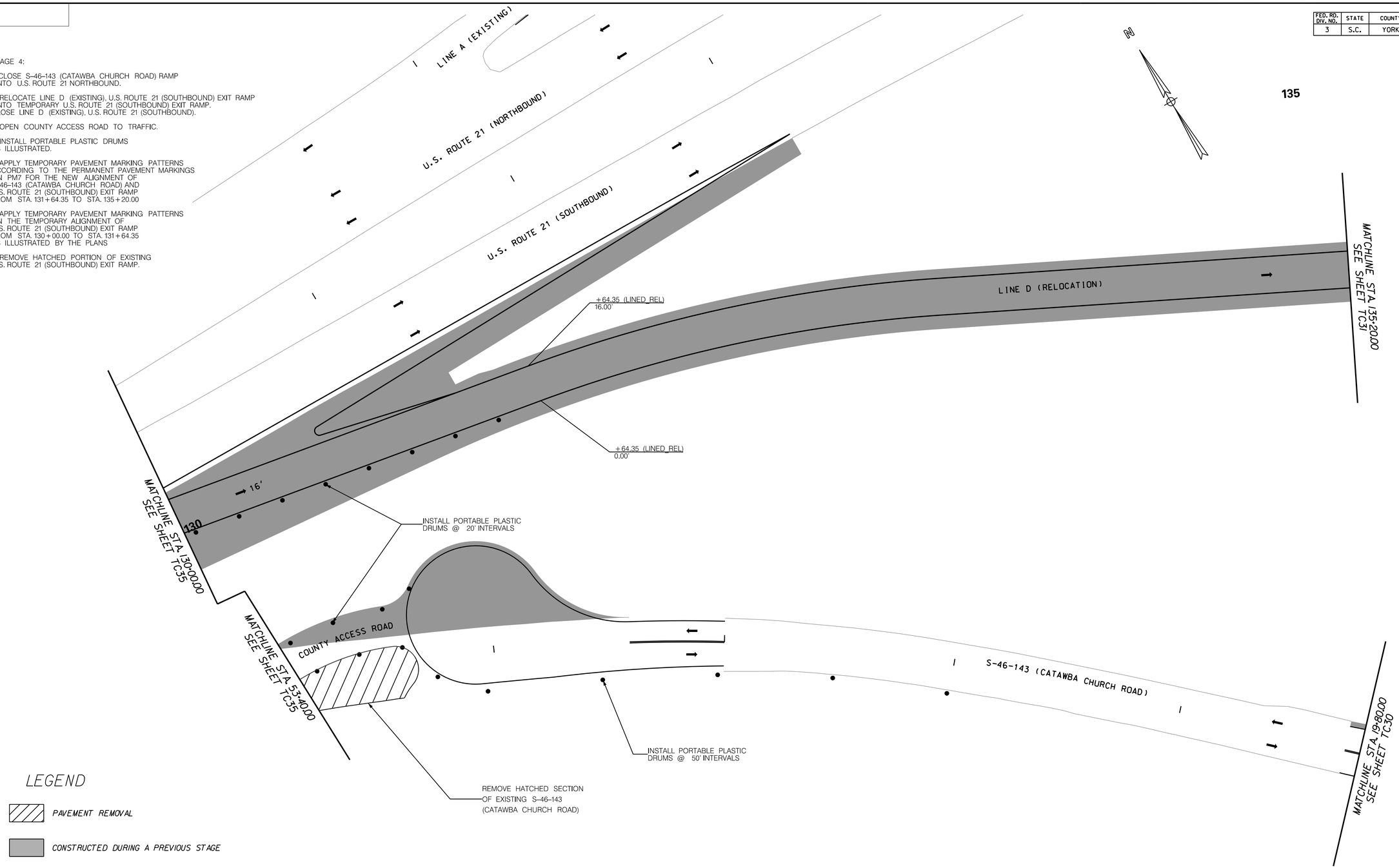
3. OPEN COUNTY ACCESS ROAD TO TRAFFIC.

4. INSTALL PORTABLE PLASTIC DRUMS AS ILLUSTRATED.

5. APPLY TEMPORARY PAVEMENT MARKING PATTERNS ACCORDING TO THE PERMANENT PAVEMENT MARKINGS ON PM7 FOR THE NEW ALIGNMENT OF S-46-143 (CATAWBA CHURCH ROAD) AND U.S. ROUTE 21 (SOUTHBOUND) EXIT RAMP FROM STA. 131+64.35 TO STA. 135+20.00

6. APPLY TEMPORARY PAVEMENT MARKING PATTERNS ON THE TEMPORARY ALIGNMENT OF U.S. ROUTE 21 (SOUTHBOUND) EXIT RAMP FROM STA. 130+00.00 TO STA. 131+64.35 AS ILLUSTRATED BY THE PLANS

7. REMOVE HATCHED PORTION OF EXISTING U.S. ROUTE 21 (SOUTHBOUND) EXIT RAMP.



LEGEND

PAVEMENT REMOVAL

CONSTRUCTED DURING A PREVIOUS STAGE

REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

0 20 40 60 0

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 30345 ROBERT LEE DRUMMOND

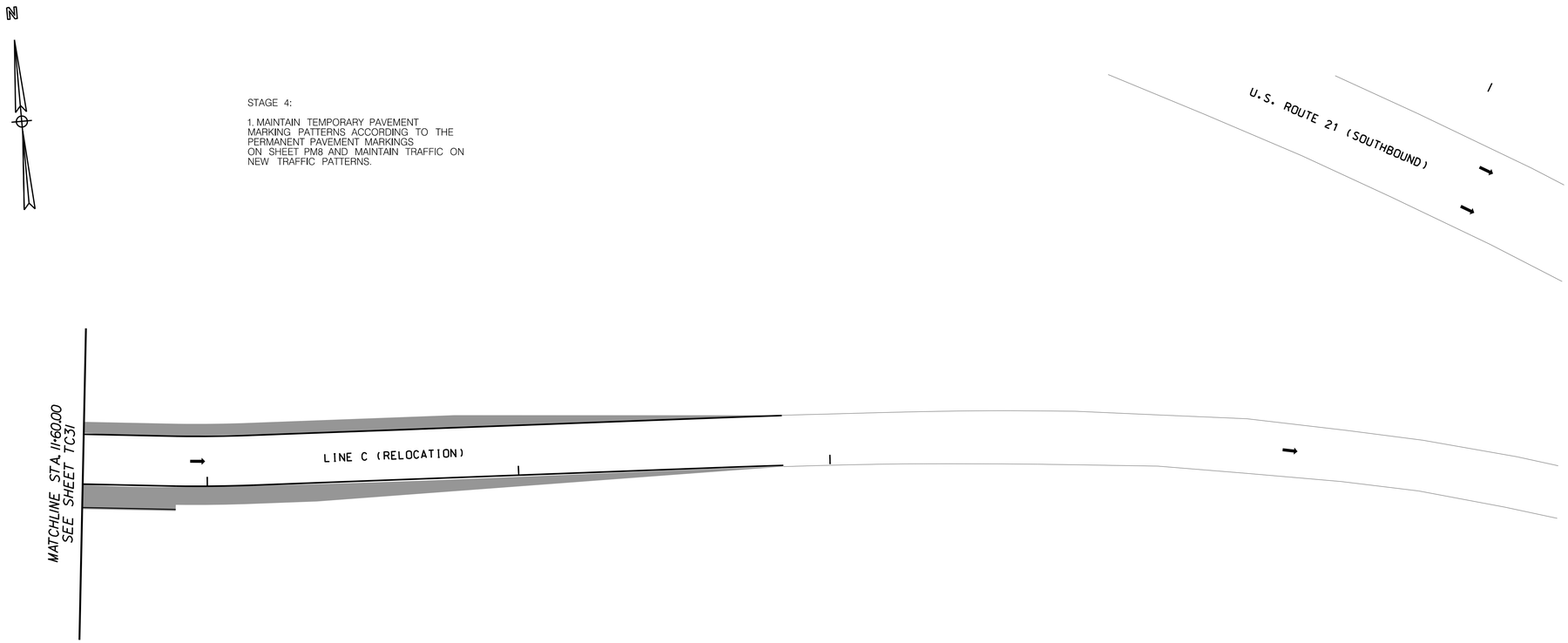
YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

TRAFFIC CONTROL STAGE 4

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC37



LEGEND

CONSTRUCTED DURING A PREVIOUS STAGE

REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

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0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21 (ANDERSON RD)

TRAFFIC CONTROL STAGE 4

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC38

STAGE 4:

1. MAINTAIN TEMPORARY PAVEMENT MARKING PATTERNS ACCORDING TO THE PERMANENT PAVEMENT MARKINGS ON SHEET PM9 AND MAINTAIN TRAFFIC ON NEW TRAFFIC PATTERNS.

15

LEGEND

CONSTRUCTED DURING A PREVIOUS STAGE

REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
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CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

SOUTH CAROLINA — CHA, Inc. No. 4478 — CERTIFICATE OF AUTHORIZATION

9/23/2025

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 30342 — ROBERT LEE DRUMOND

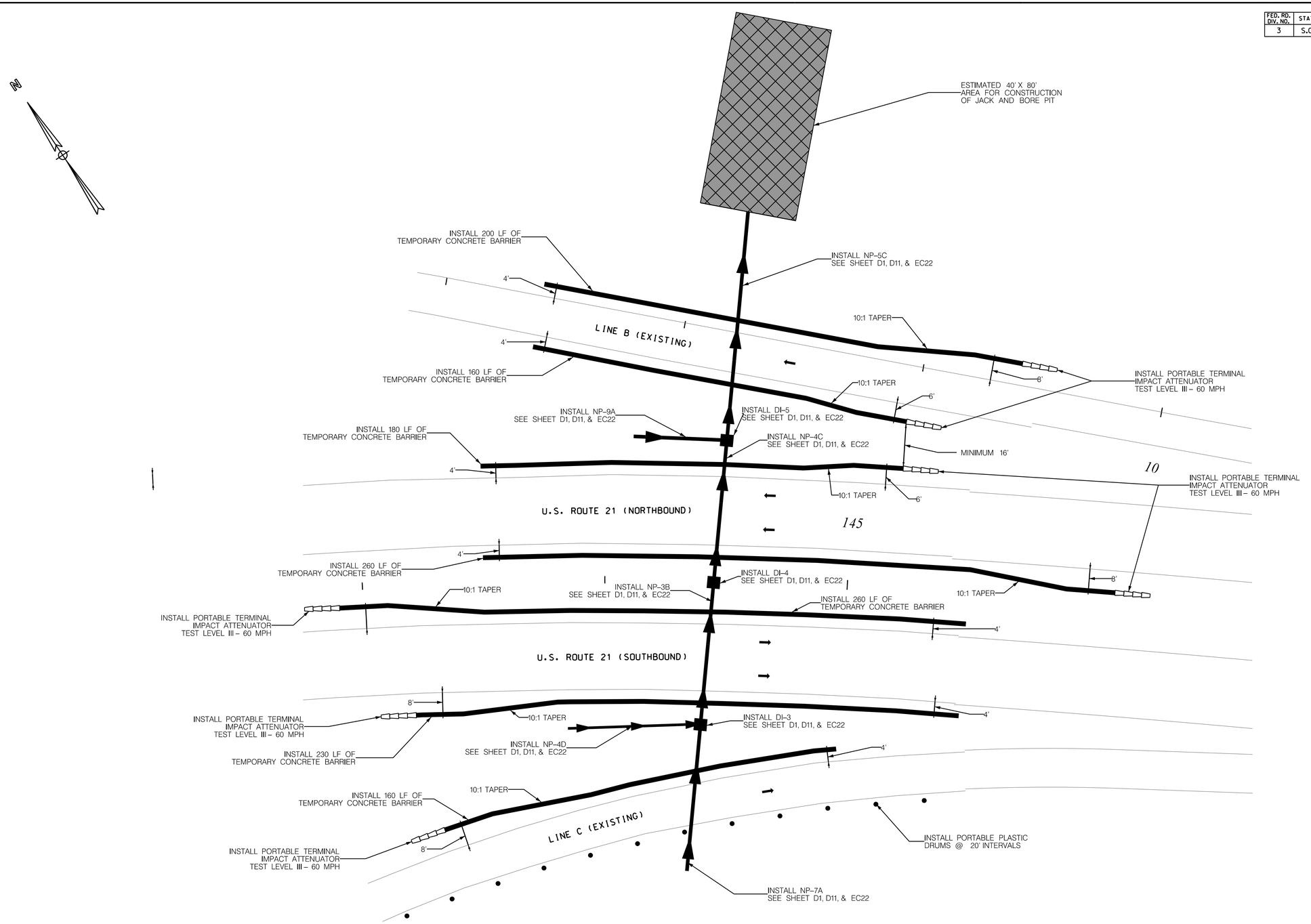
YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

TRAFFIC CONTROL STAGE 4

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC39



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DATE : 07/12/23

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DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80
SCALE: 1" = 20' HORIZ

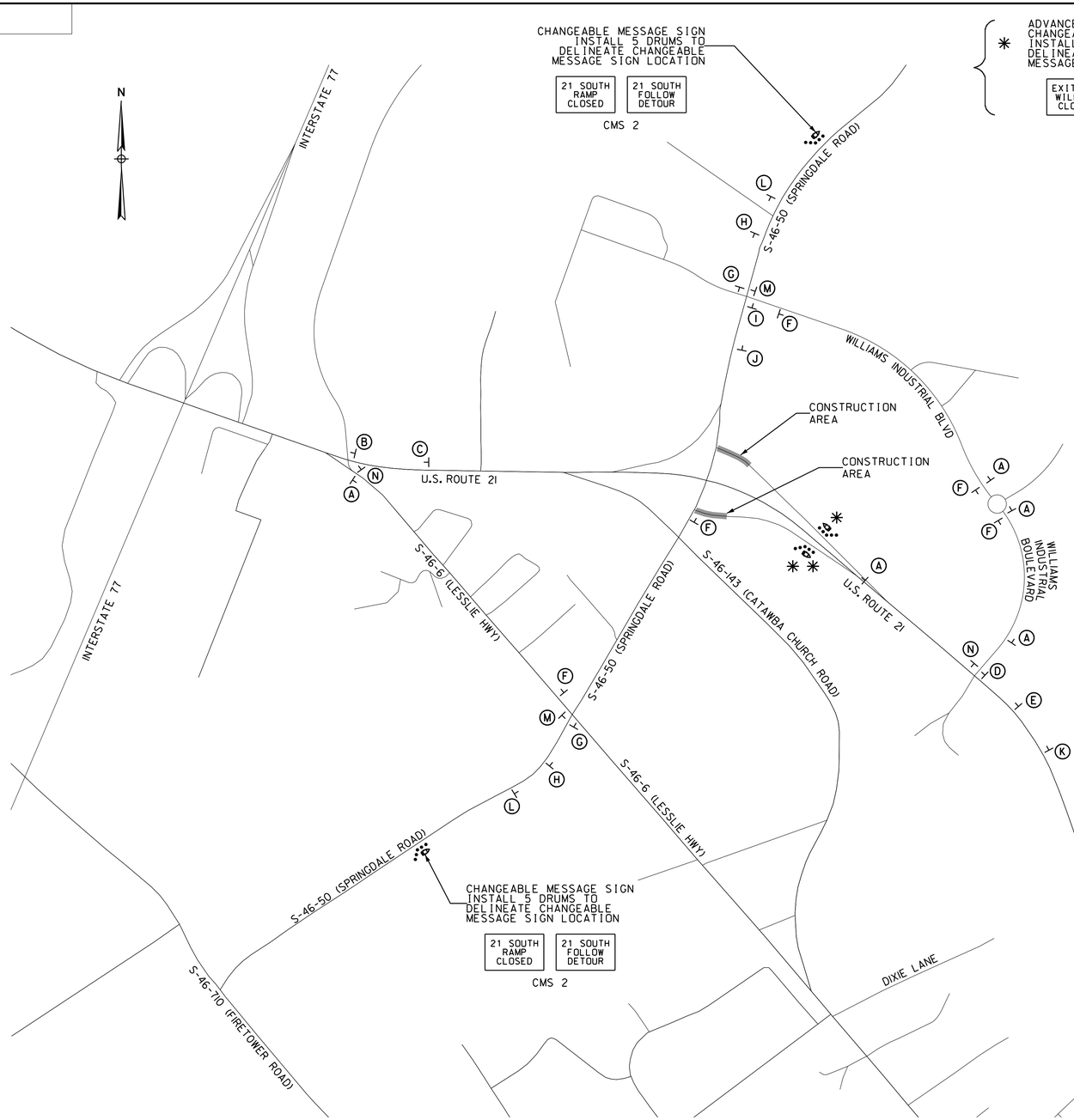
9/23/2025
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND
Digitally signed by Robert Lee Drummond
Date: 2025.09.23 08:57:26 -04'00'

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

TRAFFIC CONTROL FOR JACK & BORE PIT ACROSS U.S. ROUTE 21

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A



* ADVANCE NOTICE CHANGEABLE MESSAGE SIGN
INSTALL 5 DRUMS TO DELINEATE CHANGEABLE MESSAGE LOCATION

EXIT RMP WILL BE CLOSED | MM/DD TO MM/DD

** ADVANCE NOTICE CHANGEABLE MESSAGE SIGN
INSTALL 5 DRUMS TO DELINEATE CHANGEABLE MESSAGE LOCATION

ON-RAMP WILL BE CLOSED | MM/DD TO MM/DD

PLACE 14 DAYS PRIOR AND THEN REPROGRAM AND MOVE TO LOCATIONS ON US 21 AND S-50

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC40

SIGN "A": SPRINGDALE ROAD / DETOUR — M4-9-30

SIGN "B": SPRINGDALE ROAD / DETOUR — M4-9L-30

SIGN "C": SPRINGDALE ROAD / DETOUR — M4-9.1L-30

SIGN "D": SPRINGDALE ROAD / DETOUR — M4-9R-30

SIGN "E": SPRINGDALE ROAD / DETOUR — M4-9.1R-30

SIGN "F": DETOUR M4-8-24; SOUTH M3-3-24; 21 M1-4-24-21; M6-3-21

SIGN "G": DETOUR M4-8-24; SOUTH M3-3-24; 21 M1-4-24-21; M6-1L-21

SIGN "H": DETOUR M4-8-24; SOUTH M3-3-24; 21 M1-4-24-21; M5-1L-21

SIGN "I": DETOUR M4-8-24; SOUTH M3-3-24; 21 M1-4-24-21; M6-1R-21

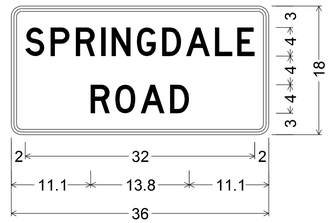
SIGN "J": DETOUR M4-8-24; SOUTH M3-3-24; 21 M1-4-24-21; M5-1R-21

SIGN "K": SPRINGDALE ROAD / DETOUR AHEAD — W20-2-48-A

SIGN "L": SOUTH M3-3-24; 21 M1-4-24-21; DETOUR AHEAD — W20-2-48-A

SIGN "M": SPRINGDALE ROAD / END DETOUR — M4-8A-24

SIGN "N": SOUTH M3-3-24; 21 M1-4-24-21; END DETOUR — M4-8A-24



1.5" Radius, 0.4" Border, 0.4" Indent, Black on Orange;
"SPRINGDALE", D 90% spacing;
"ROAD", D;
Table of distances between letter and object lefts

	S	P	R	I	N	G	D	A	L	E	
2.0	3.5	3.5	3.6	1.4	3.6	3.5	3.4	4.0	3.1	2.4	2.0

	R	O	A	D	
11.1	3.4	3.6	4.1	2.7	11.1

NOTES:
CLOSE RAMPS IN ACCORDANCE WITH STD. DWG. 610-510-00.
DETOUR US 21 AND SPRINGDALE ROAD IN ACCORDANCE WITH STD. DWG. 610-605-00 AND 610-610-00.

REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

0 500 1000 1500 2000
SCALE: 1" = 500' HORIZ

9/23/2025
SOUTH CAROLINA — CHA, Inc. No. 4418 — CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA — REGISTERED PROFESSIONAL — No. 30342 — ROBERT LEE DRUMMOND — ENGINEER

YORK COUNTY PROJECT

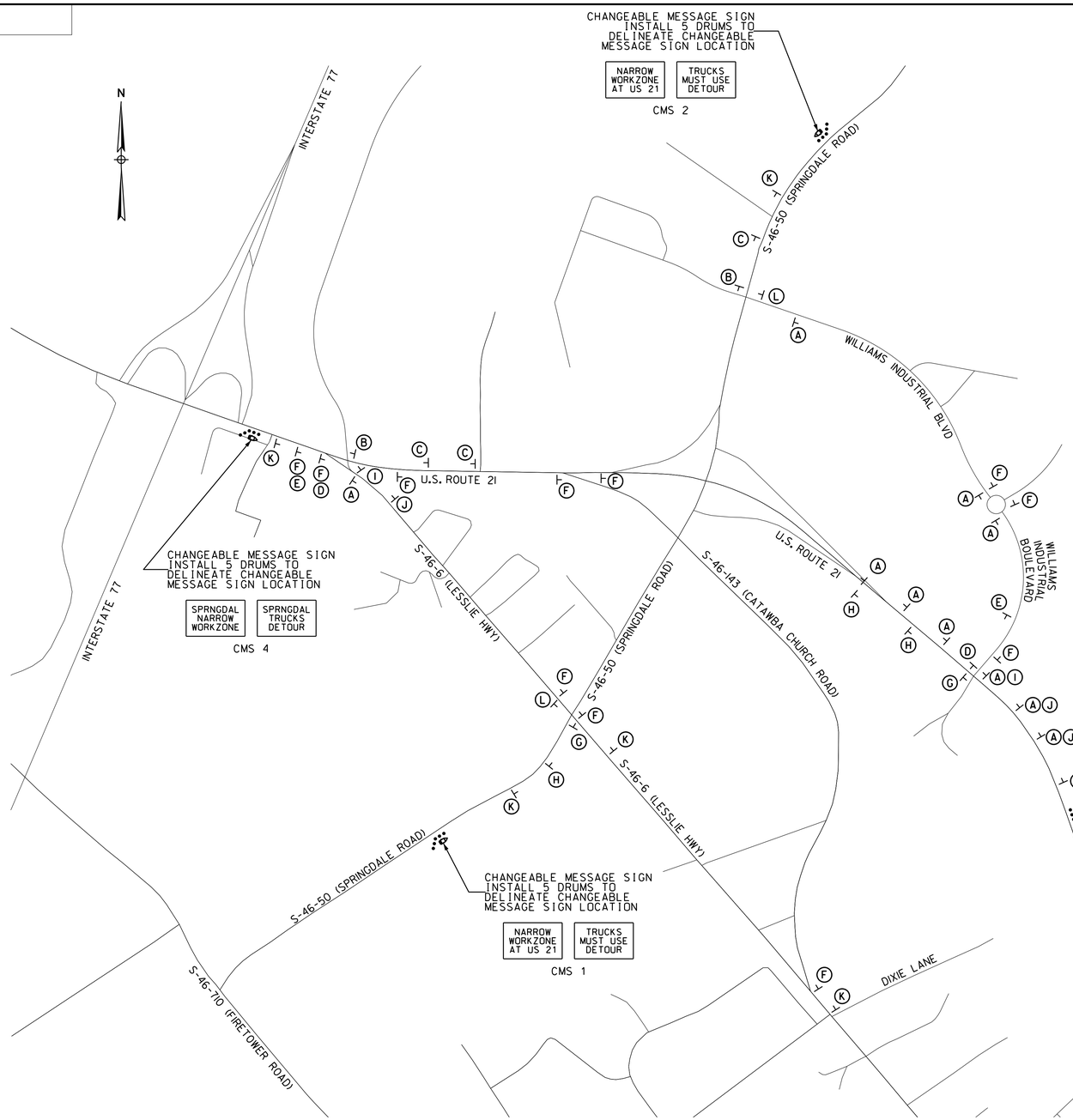
INTERCHANGE IMPROVEMENT AT
S-50 (SPRINGDALE RD) AND
US 21(ANDERSON RD)

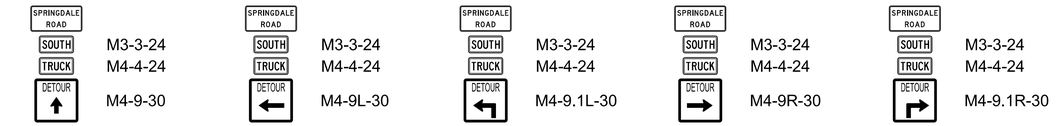
DETOUR LAYOUT A

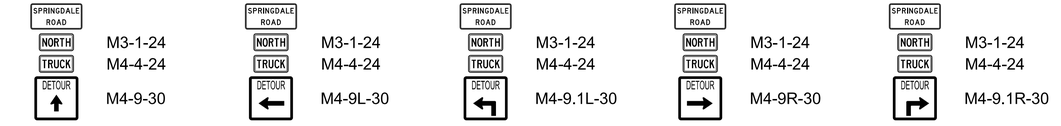
$$$$$$path$$$$$$$$filename$$$$$$$$
$$date$$$$

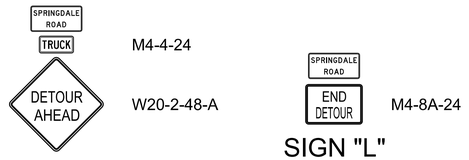
Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

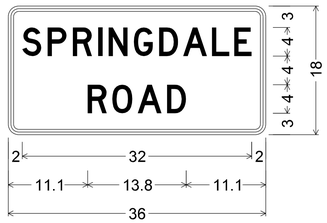
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	TC4I











1.5" Radius, 0.4" Border, 0.4" Indent, Black on Orange;
"SPRINGDALE", D 90% spacing;
"ROAD", D;
Table of distances between letter and object lefts

2.0	S 3.5	P 3.5	R 3.6	I 1.4	N 3.6	G 3.5	D 3.4	A 4.0	L 3.1	E 2.4	2.0

11.1	R 3.4	O 3.6	A 4.1	D 2.7	11.1

NOTE:
DETOUR SPRINGDALE ROAD IN ACCORDANCE WITH
STD. DWG. 610-610-00.

REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

0 500 1000 1500 2000
SCALE: 1" = 500' HORIZ

9/23/2025
SOUTH CAROLINA
CERTIFICATE OF AUTHORIZATION
CHA, Inc. No. 4478
SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 30342
ROBERT LEE DRUMMOND
Docusigned by: 9667E4E0A0E4E4...

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT
S-50 (SPRINGDALE RD) AND
US 21(ANDERSON RD)

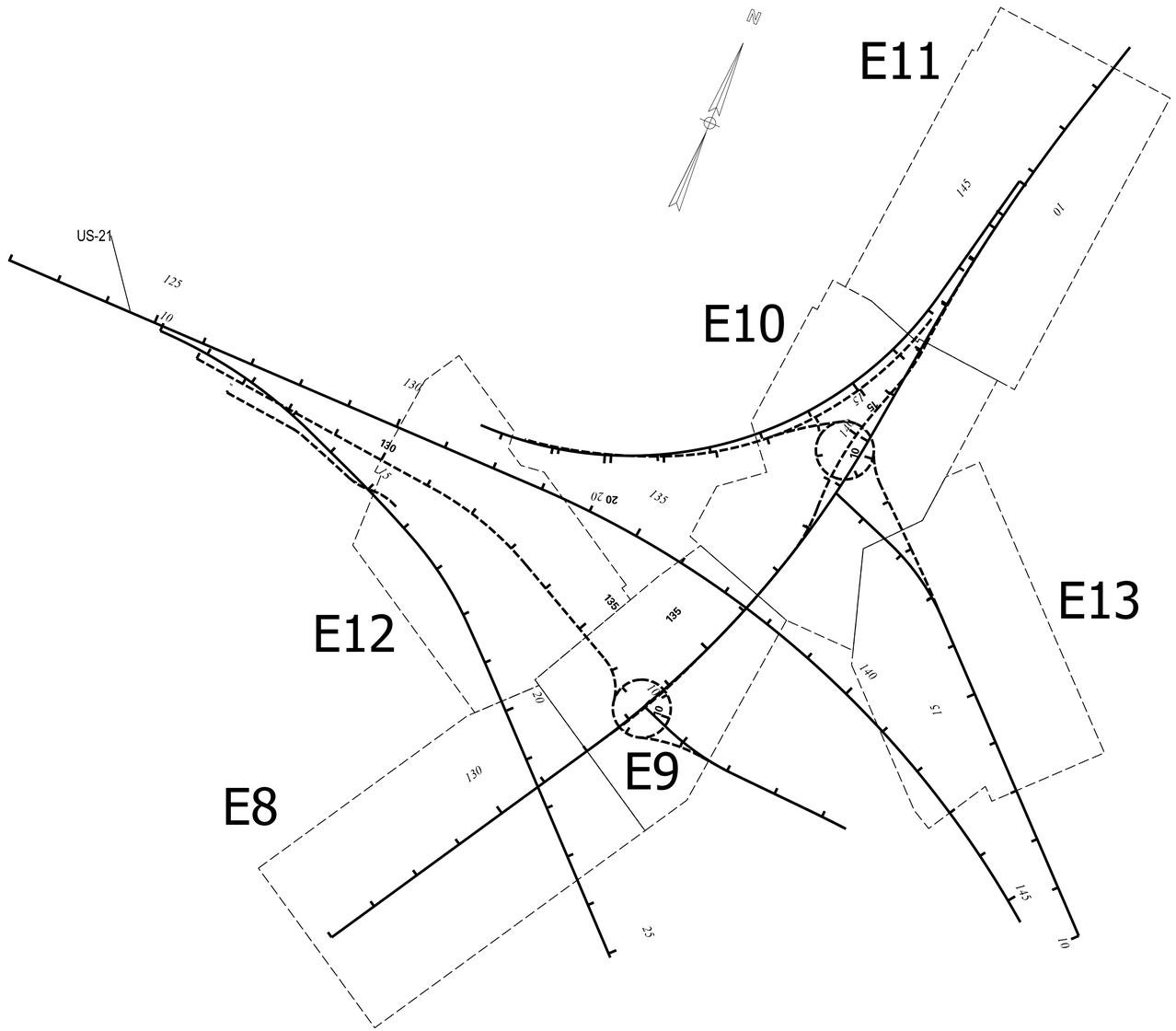
S-46-50 (SPRINGDALE ROAD)
TRUCK DETOUR

$$$$$$$path$$$$$$$filename$$$$$$$
$$$$$$$date$$$$$$$

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	E1

INDEX OF SHEETS

SHEET NO.	DESCRIPTION	SHEET SUBTOTALS
E1	LIGHTING SHEET LAYOUT	1
E2	LIGHTING GENERAL NOTES, LEGEND, AND SCHEDULE	1
E3	LIGHT POLE MOUNTING DETAILS	1
E4	FOUNDATION DETAILS	1
E5	CONDUIT AND PULL BOX DETAILS	1
E6	ELECTRICAL LINE DIAGRAMS AND PANELBOARD SCHEDULE	1
E7	ELECTRICAL SERVICE DETAILS	1
E8 - E13	LIGHTING PLANS	6
	TOTAL	13



0 125 250 375 500

HDR ENGINEERING INC.
OF THE CAROLINAS

1201 MAIN STREET
SUITE 800
COLUMBIA, SC, 29201
803-509-6600

SOUTH CAROLINA — HDR ENGINEERING INC. OF THE CAROLINAS No. C038 — CERTIFICATE OF AUTHORITY

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 38413 — CORY BEARD — 2025.09.22 14:20:17-04'00'

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

LIGHTING SHEET LAYOUT

SCALE 1" = 125'

SCALE : 1:125
PLOT DRIVER : pdf-fullsize.pltcfg
PLOTTED : 09\22\25
PEN TABLE : TextSub.tbl
FILE : ...\P037950_LTG_E1_SHEET LAYOUT.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	E2

GENERAL NOTES:

1. THESE PLANS ARE DIAGRAMMATIC ONLY AND EXACT LOCATIONS OF LIGHTING FIXTURES, SERVICE POINTS, CONDUITS (INCLUDING ROUTING) AND THE LIKE FOR NEW WORK SHALL BE AS DIRECTED BY THE ENGINEER. PRIOR TO BIDDING, CONTRACTOR SHALL REVIEW ALL PLANS AND SPECIFICATIONS (ALL TRADES), FIELD VERIFY EXISTING CONDITIONS, AND COORDINATE WITH NEW WORK, TO INCLUDE FIELD MODIFICATIONS AS REQUIRED FOR A COMPLETE PROJECT.
2. ALL WORK AND MATERIALS SHALL BE DONE IN ACCORDANCE WITH THE 2007 SOUTH CAROLINA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, SCDOT SUPPLEMENTAL SPECIFICATIONS FOR ROADWAY LIGHTING, PROJECT SPECIAL PROVISIONS, NATIONAL ELECTRICAL CODE, AND NATIONAL ELECTRICAL SAFETY CODE.
3. CONTACT WES DOVER WITH YORK ELECTRIC COOPERATIVE FOR SERVICE POINT COORDINATION WES.DOVER@YORKELECTRIC.COM 803-628-5564.
4. CONDUIT ACCESSORIES SUCH AS EXPANSION JOINTS, ELBOWS, LB'S, FLEXIBLE CONDUIT, STRAPS, HARDWARE, ETC SHALL BE INCLUDED IN THE PRICE BID FOR CONDUIT.
5. LUMINAIRE MANUFACTURER SHALL PROVIDE A FIVE YEAR WRITTEN WARRANTY FOR PARTS AND DEFECTIVE WORKMANSHIP ON LUMINAIRES.
6. ALL PITS USED FOR INSTALLED JACKED CONDUIT UNDER EXISTING ROADWAYS SHALL HAVE A MINIMUM OF FIVE FEET BETWEEN EDGE OF SHOULDER. LOCATIONS AS SHOWN ARE APPROXIMATE AND MAY BE SHIFTED AS NECESSARY TO MEET CLEARANCE REQUIREMENTS. CONTRACTOR SHALL FOLLOW MUTCD, SCDOT STANDARD DRAWINGS, AND SCDOT REQUIREMENTS FOR ALL TRAFFIC CONTROL RELATED WORK.
7. CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO INSTALLATION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DEPARTMENT.
8. THE CONTRACTOR SHALL PROVIDE THE SERVICE POLE UNLESS OTHERWISE NOTED. THE SERVICE RISER AND LATERAL WEATHERHEAD, WATERPROOF ENCLOSURES, CIRCUIT BREAKERS, LIGHTNING ARRESTER, AND THE NECESSARY WIRING FOR CONNECTING TO THE POWER SOURCE SHALL BE INCLUDED UNDER THE "ELECTRICAL SERVICE CONNECTIONS" LINE ITEM.
9. CONTRACTOR SHALL DOCUMENT ALL FINAL ROUTINGS, LOCATIONS OF SLEEVES/CAPPED CONDUITS, AND LOCATIONS OF MAJOR SITE ELECTRICAL EQUIPMENT ON RECORD DRAWINGS. INCLUDE DIMENSIONS FROM A PERMANENT SITE STRUCTURE(S) FOR ALL UNDERGROUND SLEEVES/CAPPED CONDUITS TO ALLOW FOR FUTURE USE.
10. THE CONTRACTOR SHALL FURNISH AND INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL NON-METALLLIC CONDUIT AS PER THE SCDOT SUPPLEMENTAL LIGHTING SPECIFICATION. THE EGC SHALL BE THE SAME SIZE AS THE LARGEST CURRENT-CARRYING CONDUCTOR IN THE CONDUIT.
11. GROUND RODS SHALL NOT HAVE A RESISITANCE TO GROUND OF MORE THAN 25 OHMS IN ACCORDANCE WITH THE SCDOT SUPPLEMENTAL LIGHTING SPECIFICATION. THE CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD WITH A REPORT OF THE ELECTRICAL RESISTANCE MEASURED BETWEEN THE GROUND ROD AND GROUND.

UTILITY NOTES:

1. SEE CIVIL PLANS FOR DUCTBANKS, MANHOLES, HANDHOLES, AND ADDITIONAL NEW UTILITIES. VERIFY EXACT LOCATIONS OF HANDHOLES, RISE POLES, PEDESTALS, AND THE LIKE WITH UTILITIES.
2. CONTRACTOR SHALL CONTACT UNDERGROUND UTILITY LOCATOR SERVICE (SC811) A MINIMUM OF 96 HOURS PRIOR TO WORK.
3. BEFORE DIGGING IN THE VICINITY OF UTILITY LINES (OVERHEAD OR UNDERGROUND), NOTIFY UTILITY AND COMPLY WITH INSTRUCTIONS AND PRECAUTIONS FOR EXCAVATION AND PROTECTION OF SUCH LINES.
4. BEFORE DIGGING IN THE VICINITY OF PRIVATELY OWNED UTILITIES, THE CONTRACTOR SHALL NOTIFY THE OWNER OF THE SCHEDULE AND EXTENT OF PLANNED EXCAVATIONS.
5. ALL UTILITY INFRASTRUCTURE REQUIRED AS PART OF THE PROJECT SHALL COMPLY WITH THE RESPECTIVE UTILITY CONSTRUCTION STANDARD AND REQUIRMENTS. COORDINATE ALL SERVICE POINTS, RISER POLES, PEDESTALS, HANDHOLES, AND THE LIKE WITH RESPECTIVE UTILITY PRIOR TO PERFORMING WORK.
6. VERIFY THE DEPTH OF ALL EXISTING AND PROPOSED UNDERGROUND UTILITIES AT LOCATIONS WHERE PROPOSED CONDUIT BORE OR TRENCH IS CROSSING TO AVOID ANY IMPACT TO THE UTILITIES.

LEGEND

PROPOSED STANDARD LIGHT POLE WITH LED LUMINAIRE (106 WATTS AND 4000K CCT). DESIGNED WITH TYPE III DISTRIBUTION. LUMINAIRE LUMENS 15,950. MOUNTING HEIGHT 30 FEET. ARM LENGTH 4 FEET. LUMINAIRES SHALL BE AUTOBAHN ATB0-P303-R3 OR APPROVED EQUAL.

PROPOSED STANDARD LIGHT POLE WITH LED LUMINAIRE (83 WATTS AND 4000K CCT). DESIGNED WITH TYPE II DISTRIBUTION. LUMINAIRE LUMENS 12,300. MOUNTING HEIGHT 30 FEET. ARM LENGTH 4 FEET. LUMINAIRES SHALL BE AUTOBAHN ATB0-P302-R2 OR APPROVED EQUAL.

PROPOSED STANDARD LIGHT POLE WITH LED LUMINAIRE (124 WATTS AND 4000K CCT). DESIGNED WITH TYPE III DISTRIBUTION. LUMINAIRE LUMENS 18,230. MOUNTING HEIGHT 30 FEET. ARM LENGTH 4 FEET. LUMINAIRES SHALL BE AUTOBAHN ATB0-P304-R3 OR APPROVED EQUAL.

PROPOSED ELECTRICAL SERVICE POINT (YORK ELECTRIC COOPERATIVE)

EPB — PROPOSED ELECTRICAL PULL BOX. DIMENSIONS 17" X 30" X 28"

PROPOSED LIGHTING CONTROL CABINET

—— E1 —— PROPOSED ELECTRICAL CONDUIT - OPEN TRENCH. SHALL BE PVC SCHEDULE 80 OR HDPE SCHEDULE 80 UNLESS OTHERWISE NOTED. SIZE AND QUANTITY AS INDICATED IN PLANS

—— E2 —— PROPOSED ELECTRICAL CONDUIT - DIRECTIONAL BORE. SHALL BE PVC SCHEDULE 80 OR HDPE SCHEDULE 80 UNLESS OTHERWISE NOTED. SIZE AND QUANTITY AS INDICATED IN PLANS.

POLE DATA TABLE

POLE NO.	STATION	OFFSET (FT)	BASELINE	SHEET NO.	MOUNTING HEIGHT (FT)	ARM LENGTH (FT)	LUMINAIRE WATTAGE	DISTRIBUTION TYPE	CIRCUIT	MOUNTING
P1	131+35	27.47 LT	SPRINGDALE RD	EB	30'	4'	124W	TYPE III	CCA-1,3	FOUNDATION
P2	132+82	54.37 LT	SPRINGDALE RD	EB	30'	4'	106W	TYPE III	CCA-1,3	FOUNDATION
P3	132+88	46.00 RT	SPRINGDALE RD	EB	30'	4'	106W	TYPE III	CCA-1,3	FOUNDATION
P4	135+10	20.52 RT	LINE D REL	E12	30'	4'	106W	TYPE III	CCA-1,3	FOUNDATION
P5	133+53	16.97 RT	LINE D REL	E12	30'	4'	106W	TYPE III	CCA-1,3	FOUNDATION
P6	133+78	68.00 LT	SPRINGDALE RD REL	EB	30'	4'	106W	TYPE III	CCA-1,3	FOUNDATION
P7	133+82	41.77 RT	SPRINGDALE RD REL	EB	30'	4'	106W	TYPE III	CCA-1,3	FOUNDATION
P8	135+06	18.08 RT	SPRINGDALE RD REL	EB	30'	4'	83W	TYPE II	CCA-1,3	FOUNDATION
P9	157+14	18.48 LT	SPRINGDALE RD REL	E10	30'	4'	83W	TYPE II	CCA-1,3	FOUNDATION
P10	138+77	38.70 RT	SPRINGDALE RD REL	E10	30'	4'	106W	TYPE III	CCA-1,3	FOUNDATION
P11	139+29	49.90 LT	SPRINGDALE RD REL	E10	30'	4'	106W	TYPE III	CCA-1,3	FOUNDATION
P12	18+10	5.87 LT	LINE A REL	E10	30'	4'	83W	TYPE II	CCA-1,3	FOUNDATION
P13	140+00	55.11 RT	SPRINGDALE RD REL	E10	30'	4'	106W	TYPE III	CCA-1,3	FOUNDATION
P14	18+82	18.13 RT	LINE B REL	E10	30'	4'	106W	TYPE III	CCA-1,3	FOUNDATION
P15	17+02	62.00 LT	LINE B REL	E13	30'	4'	106W	TYPE III	CCA-1,3	FOUNDATION
P16	141+06	28.58 LT	SPRINGDALE RD REL	E10	30'	4'/ 4'	83W / 106W	TYPE II / TYPE III	CCA-1,3	FOUNDATION
P17	142+89	28.28 RT	SPRINGDALE RD REL	E11	30'	4'	106W	TYPE III	CCA-1,3	FOUNDATION

ABBREVIATIONS

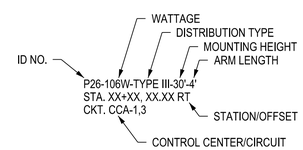
THE FOLLOWING STANDARD ABBREVIATIONS ARE USED IN THESE PLANS AND SPECIFICATIONS. CONTRACTOR IS CAUTIONED THAT ALL ABBREVIATIONS LISTED MAY NOT BE USED. CONSULT PLANS AND SPECIFICATIONS FOR ABBREVIATIONS APPLICABLE TO THIS PROJECT.

A	AMPERES
A.F.F.	ABOVE FINISHED GRADE
AWG	AMERICAN WIRE GAUGE
B.F.G.	BELOW FINISHED GRADE
C.	CONDUIT
CKT.	CIRCUIT
E.C.	EMPTY CONDUIT
EGC	EQUIPMENT GROUNDING CONDUCTOR
EIA	ELECTRONIC INDUSTRIES ALLIANCE
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NON-METALLIC TUBING
EXIST.	EXISTING
FLX.	FLEXIBLE CONDUIT
GND.	GROUND
GRS	GALVANIZED RIGID STEEL
IMC	INTERMEDIATE METAL CONDUIT
K	KELVIN
kVA	KILO-VOLT-AMPS
LED	LIGHT EMITTING DIODE
NEC	NATIONAL ELECTRICAL CODE
PROP.	PROPOSED
PVC	POLYVINYL CHLORIDE
SCDOT	SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
U.N.O.	UNLESS OTHERWISE NOTED
V	VOLT
W	WATT
WFLX.	WEATHERPROOF FLEXIBLE CONDUIT

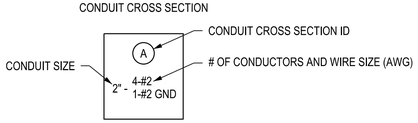
LIGHTING CONTROL CABINETS DATA TABLE

ID	STATION	OFFSET (FT)	BASELINE	SHEET NO.	VOLTAGE	MAIN CIRCUIT BREAKER
CCA	130+32	44.15 RT	SPRINGDALE RD	EB	120/240	100A

LIGHT POLE CALLOUT INFORMATION



CONDUIT CROSS SECTION



HDR ENGINEERING INC.
OF THE CAROLINAS
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SUITE 800
COLUMBIA, SC, 29201
803-509-6600

SOUTH CAROLINA — HDR ENGINEERING INC. OF THE CAROLINAS No. C038 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — LICENSED PROFESSIONAL ENGINEER — No. 38413 — CORY BEARD — 2025.09.22 14:20:17-04'00'

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

LIGHTING GENERAL NOTES, LEGEND, AND SCHEDULE

SCALE = NTS

SCALE : 1:20
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PLOTTED : 09/22/25
PEN TABLE : TextSub.tbl
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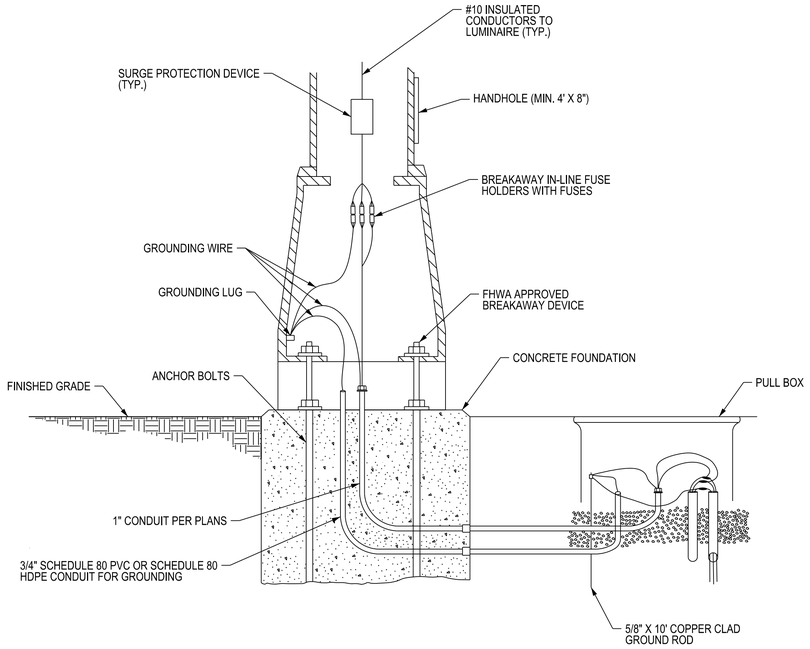
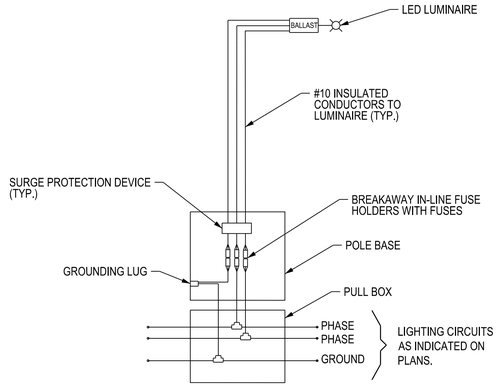
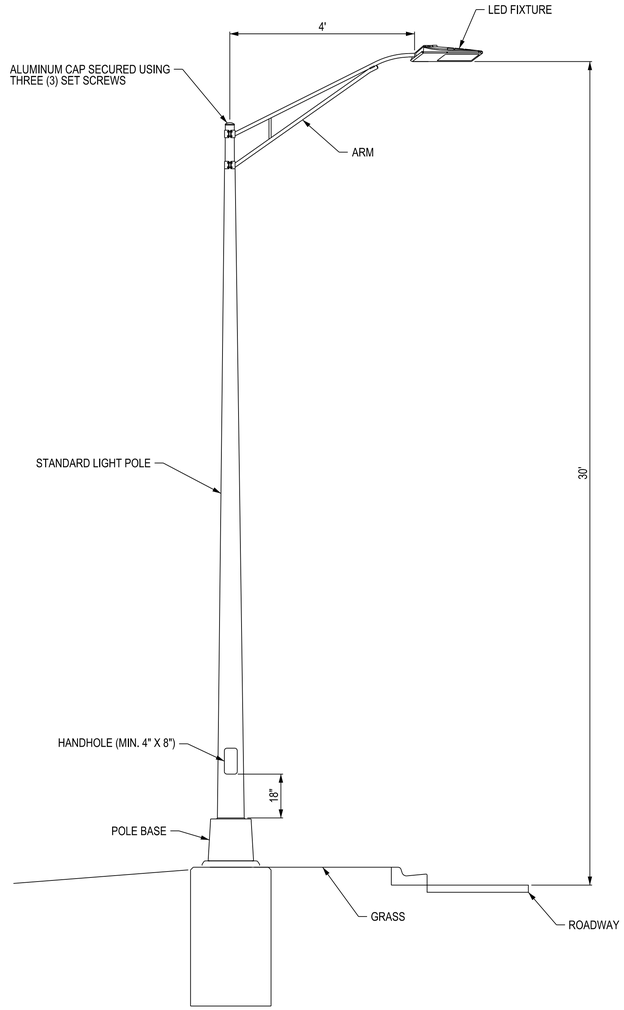


STANDARD LIGHT POLE WIRING DETAILS



STANDARD LIGHT POLE WIRING DIAGRAM



STANDARD LIGHT POLE
GROUND MOUNTING DETAIL
NOT TO SCALE

NOTES:

1) ALL GROUND MOUNTED LIGHT POLES ARE TO BE MOUNTED ON FHWA APPROVED BREAKAWAY DEVICES, UNLESS PROTECTED BY CRASH RATED BARRIER OR MOUNTED OUTSIDE OF THE CLEAR ZONE.

2) CONDUCTORS EXTENDED INTO THE POLE BASE SHALL BE OF SUFFICIENT LENGTH TO WITHDRAW SPLICES AND/OR ISOLATED JOINTS A MINIMUM OF 18" OUT OF THE HANDHOLE.

3) ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

4) ALL STANDARD POLES SHALL BE SPUN BRUSHED ALUMINUM.

5) HANDHOLE SHALL BE A MINIMUM OF 4" X 8" AND BE MOUNTED 18" ABOVE THE POLE BASE.

6) STANDARD POLES SHALL BE MOUNTED AT THE FOLLOWING MINIMUM DISTANCES, UNLESS NOTED OTHERWISE:
   - A) 2' BEHIND FACE OF CURB
   - B) 7' BEHIND FACE OF GUARDRAIL
   - C) 4' BEHIND EDGE OF SHOULDER
   - D) 2' BEHIND BARRIER

7) A MINIMUM OF 10' SHALL BE MAINTAINED BETWEEN LIGHT POLES AND OVERHEAD ELECTRIC UTILITY LINES. CONTRACTOR SHALL COORDINATE ANY LOCATIONS WHERE 10' CANNOT BE OBTAINED WITH THE DEPARTMENT.

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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — HDR ENGINEERING INC. OF THE CAROLINAS No. C038

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER — No. 38413 — CORY BEARD — 2025.09.22 14:20:18-04'00'

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
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3			
2			
1			

YORK COUNTY

LIGHT POLE
MOUNTING DETAILS

SCALE = NTS

SCALE : 1:20
PLOT DRIVER : pdf-fullsize.pltcfg
PLOTTED : 09\22\25
PEN TABLE : TextSub.tbl
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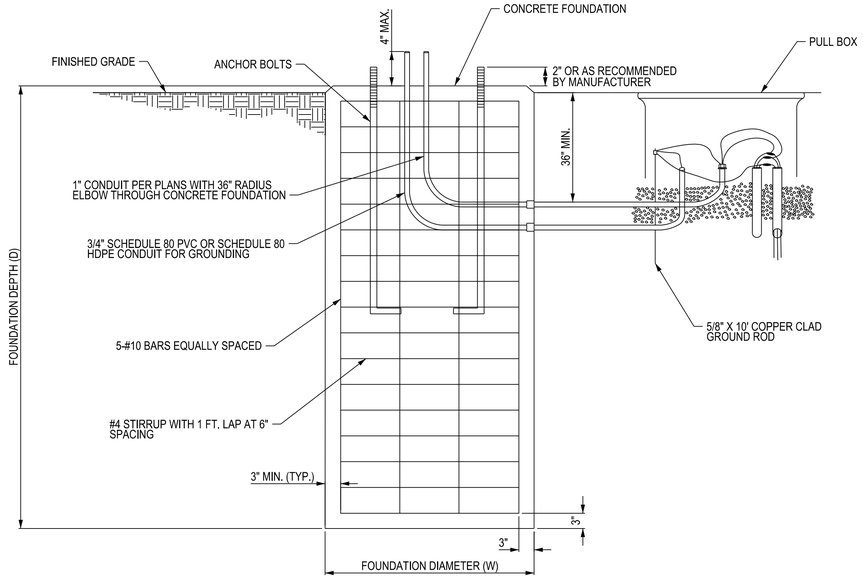
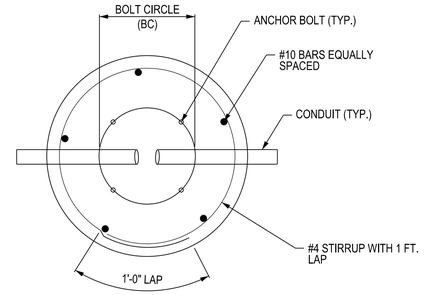
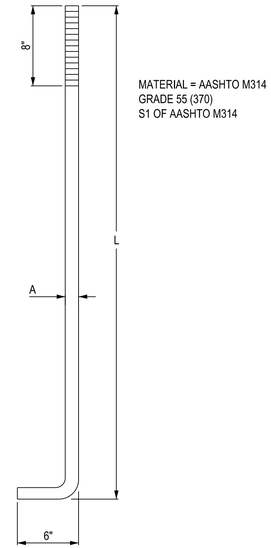


STANDARD LIGHT POLE FOUNDATION - ELEVATION VIEW



STANDARD LIGHT POLE FOUNDATION - PLAN VIEW



ANCHOR BOLT DETAIL

NOTES:

1) POLE FOUNDATION DETAIL INDICATED IS FOR GENERAL REFERENCE FOR CONSTRUCTION METHOD AND GROUNDING REQUIREMENTS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, COMPONENTS, DEPTH, AND OTHER REQUIREMENTS WITH SOIL CONDITIONS AND PROVIDE A COMPLETE POLE ASSEMBLY CONCRETE FOUNDATION DESIGN.

2) CONTRACTOR SHALL SUBMIT FOUNDATION DESIGN WITH FIXTURE SHOP DRAWINGS. DESIGN SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER LICENCED TO PRACTICE IN THE STATE OF SOUTH CAROLINA.

3) PROVIDE BREAKAWAY SYSTEM IN ACCORDANCE WITH SCDOT/AASHTO/FHWA REQUIREMENTS. FHWA APPROVAL LETTER TO BE SUBMITTED WITH SHOP DRAWINGS.

4) WHEN ROCK IS ENCOUNTERED, THE FOUNDATION DEPTH MAY BE REDUCED 6" FOR EVERY 12" OF EMBEDMENT IN ROCK. THE MINIMUM FOUNDATION DEPTH SHALL BE 4'-6" WITH CUT ANCHOR RODS 6" ABOVE BOTTOM OF EXCAVATED HOLE.

5) IN ACCORDANCE WITH FHWA, NO CONDUIT OR ANCHOR RODS SHALL PROTRUDE MORE THAN 4" ABOVE GRADE.

6) BREAKAWAY COUPLING NOT INDICATED FOR CLARITY. REFER TO SHEET E3 FOR DETAIL SHOWING BREAKAWAY COUPLING.

STANDARD LIGHT POLE FOUNDATION TABLE					
MOUNTING HEIGHT	FOUNDATION DEPTH (D)	FOUNDATION DIAMETER (W)	BOLT CIRCLE DIAMETER (BC)	ANCHOR BOLT LENGTH (L)	ANCHOR BOLT DIAMETER (A)
30 FEET	8 FEET	2 FEET	PER MANUFACTURER	PER MANUFACTURER	PER MANUFACTURER

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SOUTH CAROLINA — HDR ENGINEERING INC. OF THE CAROLINAS No. C038 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — No. 38413 — CORY BEARD — LICENSED PROFESSIONAL ENGINEER

2025.09.22 14:20:19-04'00'

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

LIGHT POLE FOUNDATION DETAILS

SCALE = NTS

SCALE : 1:20
PLOT DRIVER : pdf-fullsize.pltcfg
PLOTTED : 09\22\25
PEN TABLE : TextSub.tbl
FILE : ...\P037950_LTG_E4_FOUNDATION DTL.dgn

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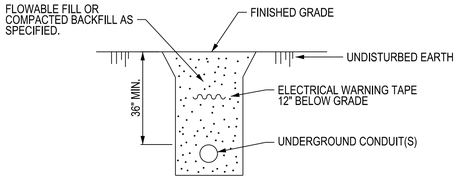
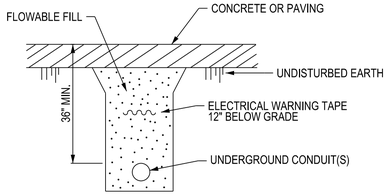
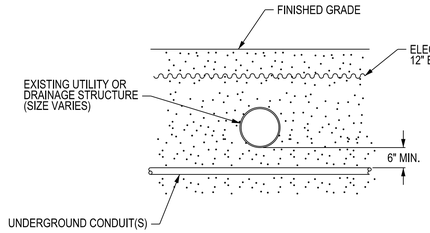


NON-PAVED AREA

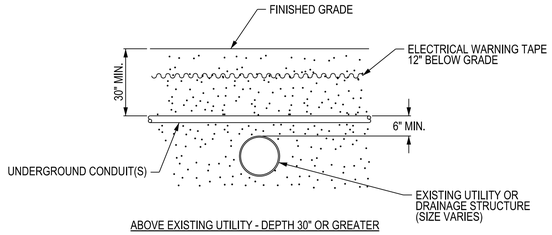


CONCRETE OR PAVED AREA

UNDERGROUND CONDUIT DETAIL

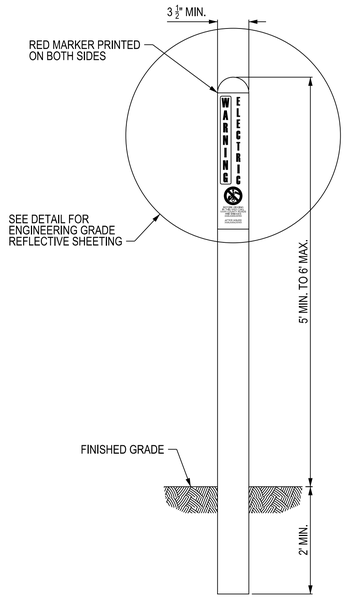


BELOW EXISTING UTILITY



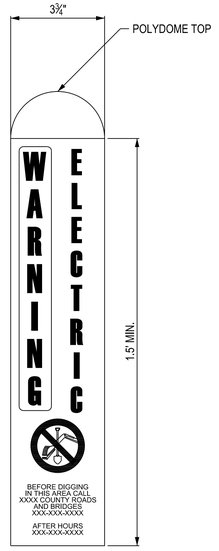
ABOVE EXISTING UTILITY - DEPTH 30" OR GREATER

UNDERGROUND CONDUIT UTILITY CROSSING



ELECTRIC MARKER DETAIL

FRONT VIEW



ELECTRIC MARKER

SHEETING DETAIL

CONDUIT NOTES:

1) MINIMUM SIZE CONDUCTOR FOR POWER SHALL BE NO. 8 AWG. ALL CONDUCTORS SHALL BE COPPER.

2) ALL FLEXIBLE CONDUIT SHALL CONTAIN A GREEN WIRE BONDED TO RIGID RACEWAY, BOX OR FIXTURE AT EACH END OF FLEX. SIZE GROUND WIRE PER NEC.

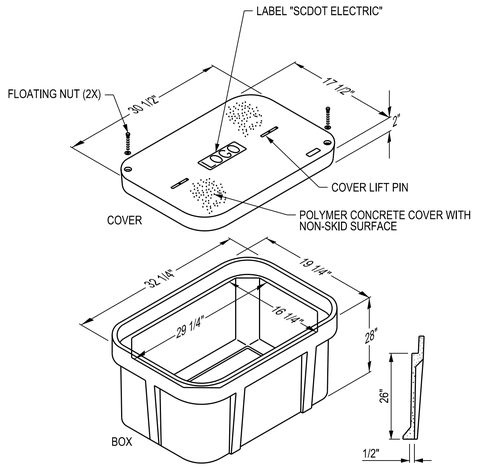
3) MAINTAIN SEPARATION BETWEEN POWER AND COMMUNICATION CONDUITS AS REQUIRED BY NEC AND IN ACCORDANCE WITH EIA/TIA STANDARDS.

4) ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 80 PVC OR SCHEDULE 80 HDPE. ALL EXPOSED CONDUITS SHALL BE HOT-DIPPED GALVANIZED RIGID CONDUIT.

5) MINIMUM COVER FOR ALL CONDUITS SHALL BE 36" BELOW FINISHED GRADE UNLESS CROSSING ABOVE A UTILITY AS SHOWN ON THIS SHEET. PROVIDE MAGNETIC ELECTRICAL LOCATOR/WARNING TAPE FOR ALL UNDERGROUND CONDUITS AND INSTALL 12" BELOW FINISHED GRADE.

6) PROVIDE PULL CORDS IN ALL EMPTY CONDUITS. CAP BOTH ENDS AND PROVIDE BRASS MARKER TAGS.

7) MARKER POSTS SHALL BE PLACED EVERY 500 FEET ALONG CONDUIT RUNS AND AT EACH POINT THE CONDUIT MAKES A TURN. ALL PULL BOXES AND THE ENDS OF DIRECTIONAL BORE CONDUITS SHALL ALSO BE MARKED.



ELECTRICAL PULL BOX

PULL BOX NOTES:

1) LOCATE AS INDICATED IN PLANS.

2) INSTALL PULL BOXES FLUSH TO FINISHED GRADE FOR INSTALLATIONS ON ROADWAY OR SIDEWALK. INSTALL PULL BOXES 2" ABOVE FINISHED GRADE FOR INSTALLATIONS ON GRASS.

3) PULL BOXES SHALL BE PLACED AT INTERVALS OF 250' MAX AND AT BOTH ENDS OF DIRECTIONAL BORE CONDUIT RUNS.

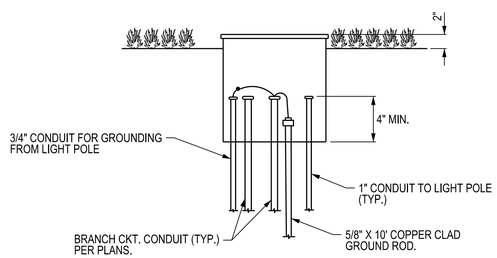
4) INSTALL FOUR (4) INCHES OF CONCRETE BACKFILL ON ALL SIDES OF PULL BOXES.

5) PULL BOXES AND COVERS MOUNTED IN THE ROADWAY SHOULDER SHALL BE ANSI TIER 22 RATED. ALL OTHER PULL BOXES AND COVERS SHALL BE ANSI TIER 15 RATED.

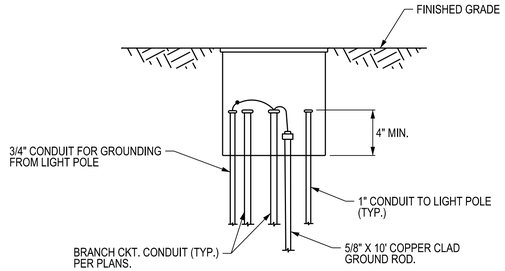
6) INSTALL RED PASSIVE MARKING BALL IN PULL BOX OPERATING AT A FREQUENCY OF 169.8 KHZ. RED PASSIVE MARKER BALL SHALL BE COMPATIBLE WITH A METRO MARK PASSIVE MARKER LOCATOR760 DX OR APPROVED EQUAL.

7) CONDUITS SHALL BE STUBBED OUT IN JUNCTION BOXES A MINIMUM OF 4" ABOVE GRAVEL BASE.

8) INSTALL ALL PULL BOXES IN MINIMUM 6" GRAVEL BASE AND IN ACCORDANCE WITH MANUFACTURER GUIDELINES. ADJUST PULL BOX FRAME AND COVERS AS REQUIRED TO SUIT FINAL GRADE AND FINISH.



PULL BOX ELEVATION VIEW - GRASS



PULL BOX ELEVATION VIEW- ROADWAY/SIDEWALK

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SOUTH CAROLINA HDR ENGINEERING INC. OF THE CAROLINAS No. C0318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 38413 CORY BEARD 2025.09.22 14:20:21-04'00'

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

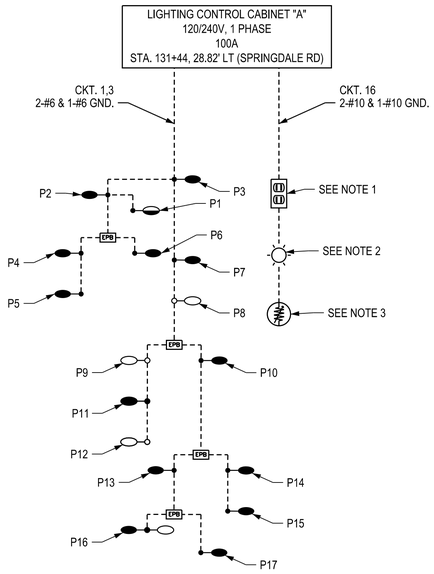
YORK COUNTY

CONDUIT AND PULL BOX DETAILS

SCALE = NTS

SCALE : 1:20
PLOT DRIVER : pdf-fullsize.pltcfg
PLOTTED : 09/22/25
PEN TABLE : TextSub.tbl
FILE : ...\P037950_LTG_E5_CONDUIT_PULLBOX_DTL.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	E6



PANELBOARD ID: CCA 130+32, 44, 15' RT	VOLTAGE: 240/120V 1ϕ, 3W	AIC RATING: 14 kAIC
BUS RATING: 100 Amp MCB	MOUNTING: Surface	

							VA / Line A		VA / Line B								
CKT	Description	Wire (AWG)	Trip	Poles	VA	Connected Line					Connected Line	VA	Poles	Trip	Wire (AWG)	Description	CKT
1	Roadway Lighting	#6	20A	2	1865	AB	932.5				–	--	2	20A	--	SPARE	2
3	--	–	--	"	–	--			932.5		–	--	--	–	--	--	4
5	SPARE	–	20A	2	–	--											6
7	--	–	--	"	–	--											8
9																	10
11																	12
13																	14
15								1920			A	1920	1	20A	#10	Photocell / Receptacle / Light	16
							2852.5		932.5								
					Connected Amps		23.78		7.78								
					Total Connected Load =		3785				VA						
					Total Demand Load =		X 125% =		4731.25		VA						
					Max Demand Amps (For Main Circuit Breaker Sizing) =		X 125% =		19.72		AMPS						

NOTES:

1) GROUND FAULT INTERRUPTING DUPLEX CONVENIENCE RECEPTACLE IN A WEATHERPROOF BOX WITH COVER (NEMA 5-20R-GFCI).

2) 17W (MIN.) LED CABINET LIGHT WITH PROTECTIVE COVER DIRECTLY MOUNTED TO A DOOR ACTUATED SWITCH.

3) PHOTOCELL CONNECTED TO A HAND-OFF-AUTO SELECTOR SWITCH.

4) CONTRACTOR SHALL COORDINATE WITH YORK ELECTRIC COOPERATIVE AS NEEDED AND COMPLY WITH ALL REQUIREMENTS FOR SERVICE AND METERING.

5) VOLTAGE RATINGS OF SERVICE EQUIPMENT SHALL CONFORM TO THE SERVICE VOLTAGE INDICATED IN THE PLANS.

6) A PLASTIC COVERED WIRING DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR OF THE CONTROL CABINET.

7) PRINTED LABELS SHALL BE ADDED TO THE PANELBOARD FOR EACH CIRCUIT CLEARLY IDENTIFYING WHAT DEVICES ARE CONNECTED TO THE CIRCUIT.

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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY

ELECTRICAL LINE DIAGRAMS AND PANELBOARD SCHEDULE

SCALE = NTS

SCALE : 1:20
PLOT DRIVER : pdf-fullsize.pltcfg
PLOTTED : 09/22/25
PEN TABLE : TextSub.tbl
FILE : ...\P037950_LTG_E6_ELEC_LINE_DIAGRAMS.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
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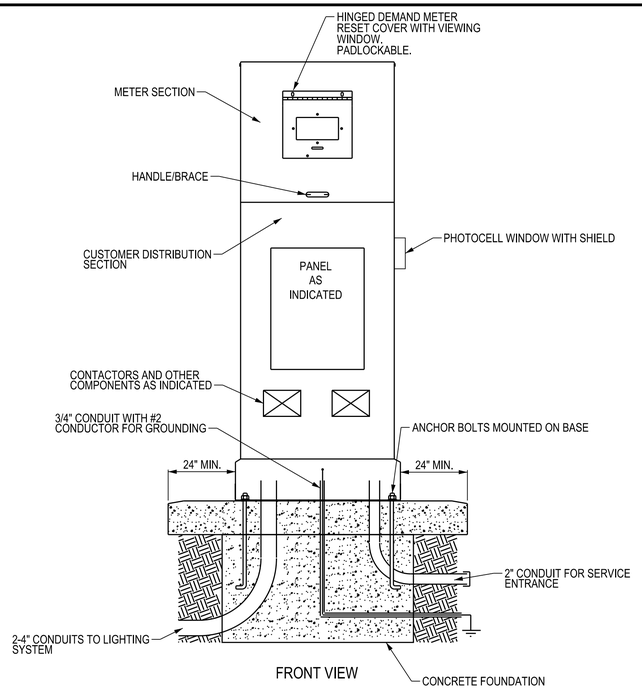
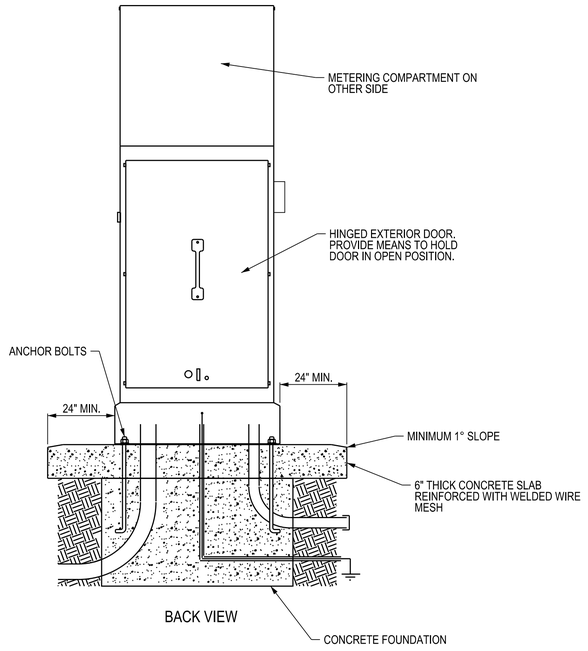
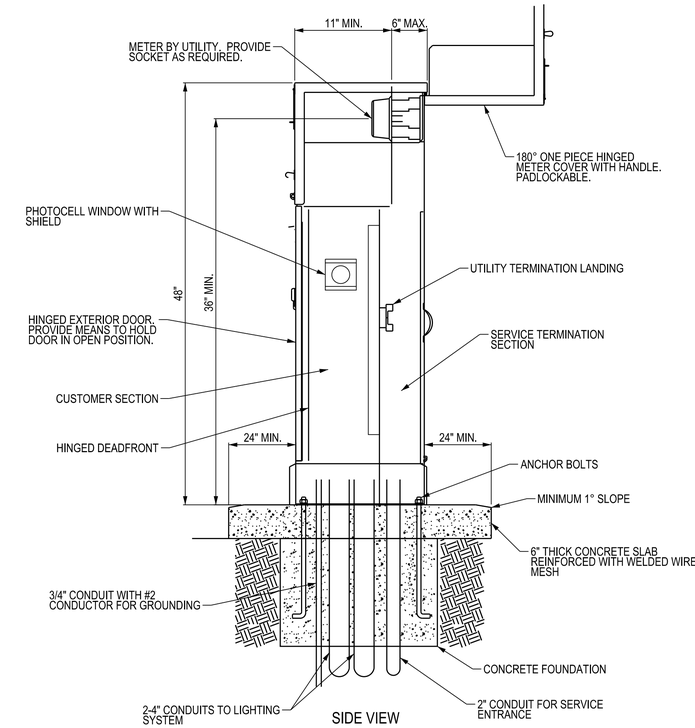


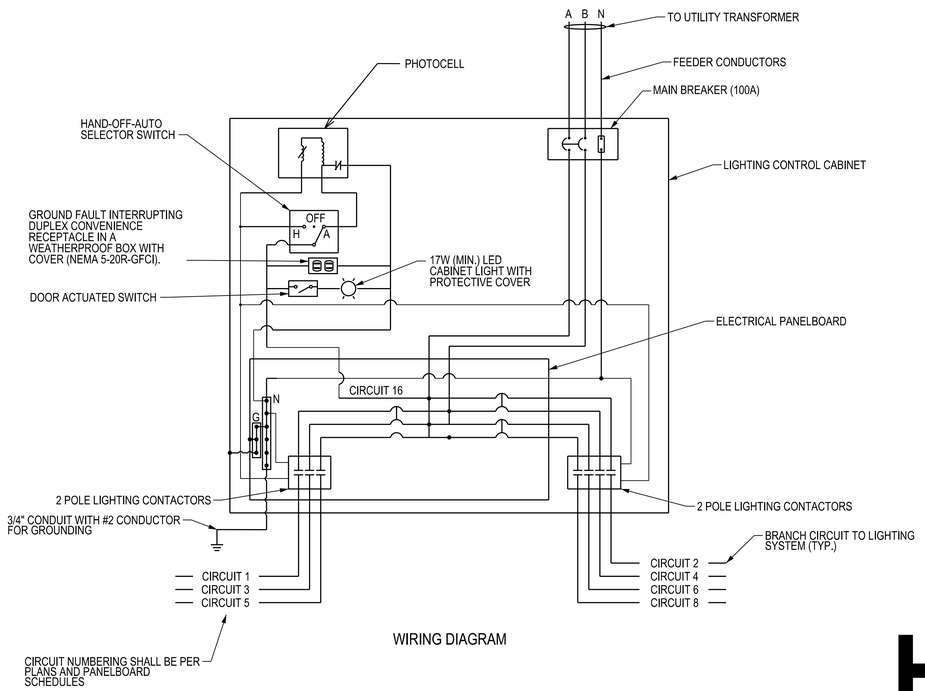
FRONT VIEW



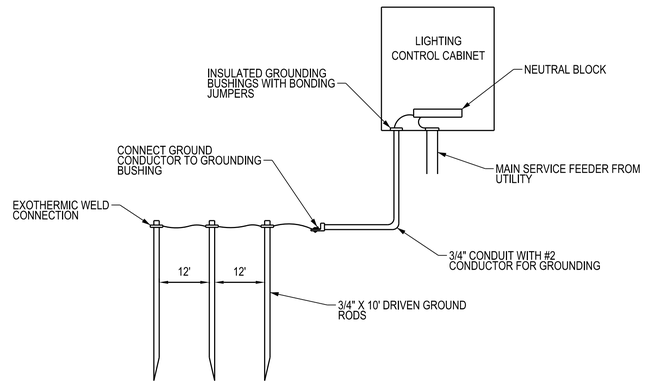
BACK VIEW



SIDE VIEW



WIRING DIAGRAM



GROUNDING DETAIL

NOTES:

1) LIGHTING CONTROL CABINET SHALL BE U/L LISTED "INDUSTRIAL CONTROL PANEL" PER UL 508.
2) LIGHTING CONTROL CABINET SHALL BE NEMA 3R RATED AND FABRICATED FROM 0.125" ALUMINUM SHEET STOCK ELECTRONICALLY WELDED AND REINFORCED WHERE REQUIRED.
3) A PLASTIC COVERED WIRING DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
4) CABINET SHALL BE FACTORY WIRED AND CONFORM TO RELEVANT NEMA STANDARDS.
5) THE CONCRETE PAD FOR THE CABINET SHALL EXTEND A MINIMUM OF 24" ON ALL SIDES OF THE CABINET
6) THE ELECTRICAL SERVICE SHALL BE 120/240V SINGLE PHASE, 3 WIRE.
7) ANCHOR BOLTS, FOUNDATION, AND CONCRETE PAD SHALL BE INCIDENTAL TO THE CABINET.
8) CONDUIT EMBEDMENT BELOW GRADE SHALL BE AS PER POWER COMPANY REQUIREMENTS. VERIFY DEPTH WITH POWER COMPANY PRIOR TO INSTALLATION.
9) SERVICE EQUIPMENT ENCLOSURE AND METERING EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE POWER COMPANY.
10) THE EXTERIOR DOOR SHALL HAVE PROVISIONS FOR PADLOCKING.
11) FASTENERS ON THE EXTERIOR OF THE ENCLOSURE SHALL BE VANDAL RESISTANT AND SHALL NOT BE REMOVABLE FROM THE EXTERIOR. ALL NUTS, BOLTS, SCREWS, WASHERS, AND HINGES SHALL BE STAINLESS STEEL.
12) PHENOLIC NAME PLATES SHALL BE PROVIDED AS SPECIFIED.
13) THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER SHOP DRAWINGS OF THE FOOTING AND DESIGN CALCULATIONS, CERTIFIED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN SOUTH CAROLINA.

HDR ENGINEERING INC.
OF THE CAROLINAS

1201 MAIN STREET
SUITE 800
COLUMBIA, SC, 29201
803-509-6600

SOUTH CAROLINA — HDR ENGINEERING INC. OF THE CAROLINAS No. C0318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — LICENSED PROFESSIONAL ENGINEER — No. 38413 — CORY BEARD — 2025.09.22 14:20:22-04'00'

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

ELECTRICAL SERVICE DETAILS

SCALE = NTS

SCALE : 1:20
PLOT DRIVER : pdf-fullsize.pltcfg
PLOTTED : 09/22/25
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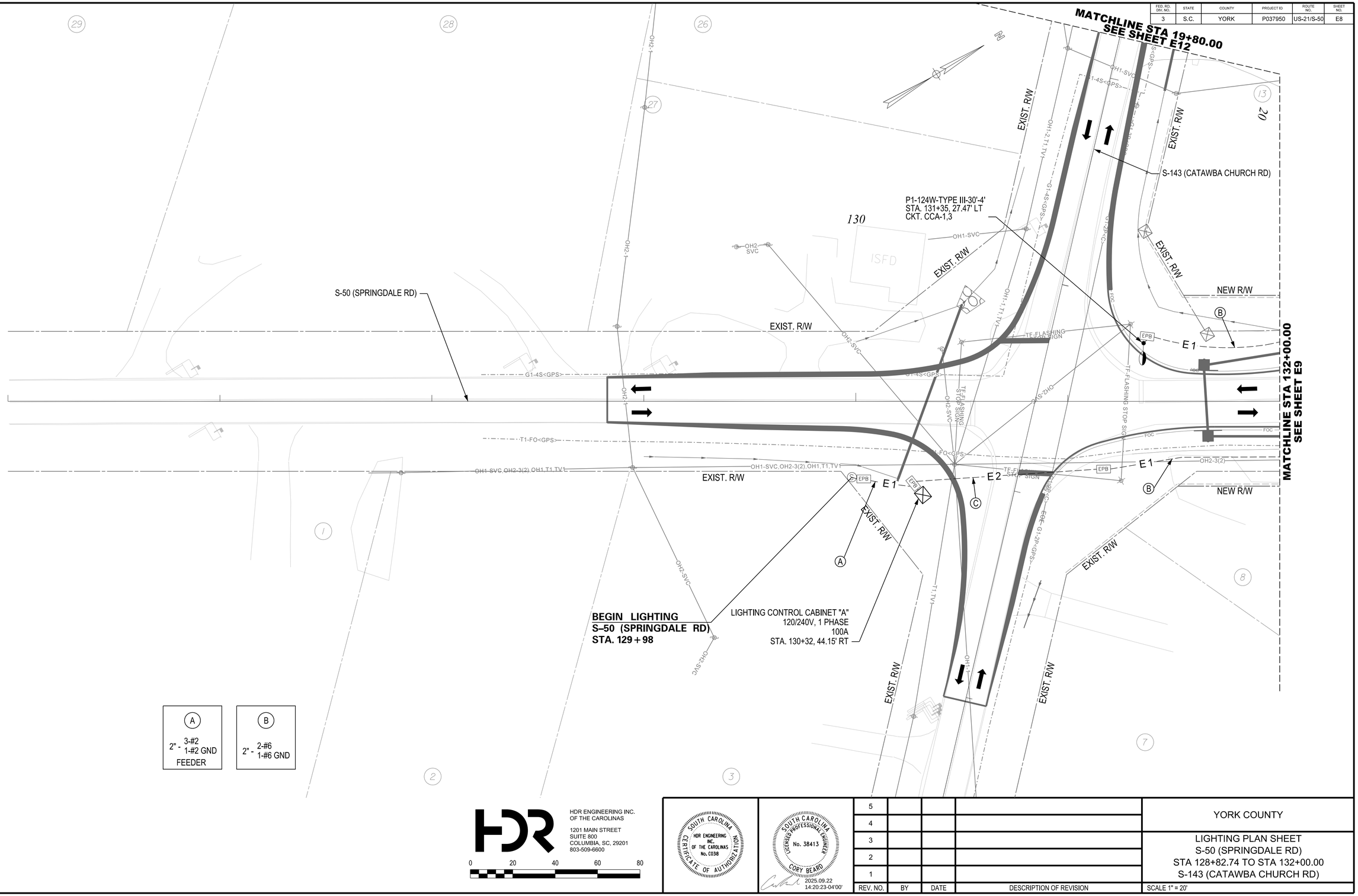
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	E8



A	B
2" - 3-#2 1-#2 GND FEEDER	2" - 2-#6 1-#6 GND

HDR ENGINEERING INC.
OF THE CAROLINAS

1201 MAIN STREET
SUITE 800
COLUMBIA, SC, 29201
803-509-6600

0 20 40 60 80

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
HDR ENGINEERING INC. OF THE CAROLINAS
No. C038

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No. 38413
CORY BEARD
2025.09.22 14:20:23-04'00'

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

LIGHTING PLAN SHEET
S-50 (SPRINGDALE RD)
STA 128+82.74 TO STA 132+00.00
S-143 (CATAWBA CHURCH RD)

SCALE 1" = 20'

SCALE : 1:20
PLOT DRIVER : pdf-fullsize.pltcfg
PLOTTED : 09\22\25
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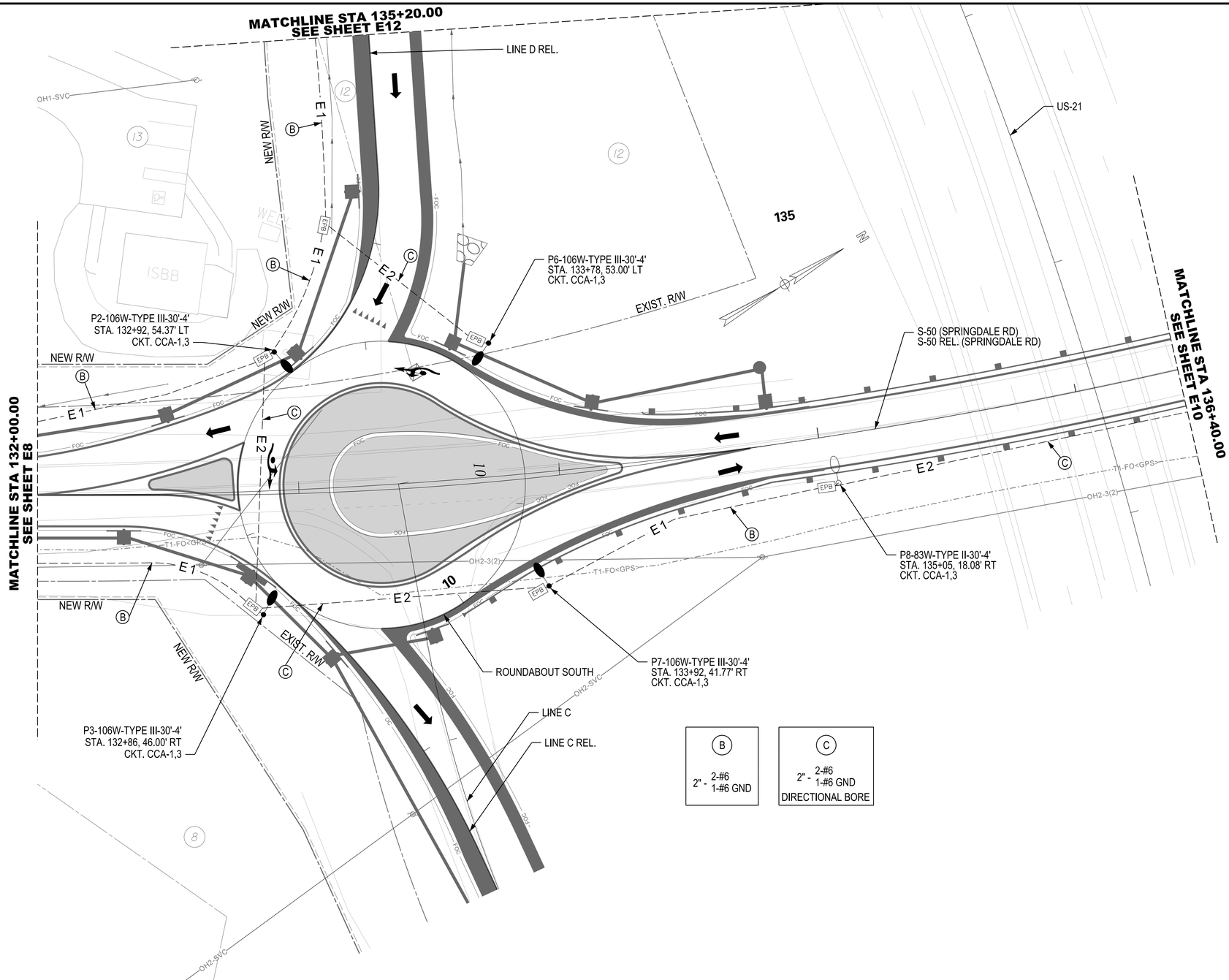
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	E9



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PLOTTED : 09\22\25
PEN TABLE : TextSub.tbl
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HDR ENGINEERING INC.
OF THE CAROLINAS
1201 MAIN STREET
SUITE 800
COLUMBIA, SC, 29201
803-509-6600

0 20 40 60 80

SOUTH CAROLINA
HDR ENGINEERING INC. OF THE CAROLINAS No. C038
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 38413
CORY BEARD
2025.09.22 14:20:25-04'00'

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

LIGHTING PLAN SHEET
S-50 REL.
STA 132+00.00 TO STA 136+40.00
ROUNDABOUT SOUTH
LINE C REL., LINE D REL.

SCALE 1" = 20'

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	E10

P12-83W-TYPE II-30'-4'
STA. 16+10, 5.87' LT
CKT. CCA-1,3

LINE A

LINE A REL.

P16-83W/106W-TYPE II/III-30'-4'/4'
STA. 141+09, 28.56' LT
CKT. CCA-1,3

P11-106W-TYPE III-30'-4'
STA. 139+29, 49.90' LT
CKT. CCA-1,3

P9-83W-TYPE II-30'-4'
STA. 137+14, 18.43' LT
CKT. CCA-1,3

MATCHLINE STA 136+40.00
SEE SHEET E9

MATCHLINE LINE A REL.
STA 13+60.00
SEE SHEET E11

MATCHLINE STA 142+20.00
SEE SHEET E11

S-50 (SPRINGDALE RD)
S-50 REL. (SPRINGDALE RD)

P10-106W-TYPE III-30'-4'
STA. 138+77, 38.70' RT
CKT. CCA-1,3

LINE B

LINE B REL.

MATCHLINE STA 18+40.00
SEE SHEET E13

ROUNDABOUT NORTH

P13-106W-TYPE III-30'-4'
STA. 140+00, 55.11' RT
CKT. CCA-1,3

P14-106W-TYPE III-30'-4'
STA. 18+62, 15.78' RT
CKT. CCA-1,3

B	C
2" - 2-#6 1-#6 GND	2" - 2-#6 1-#6 GND DIRECTIONAL BORE

HDR ENGINEERING INC.
OF THE CAROLINAS

1201 MAIN STREET
SUITE 800
COLUMBIA, SC, 29201
803-509-6600

0 20 40 60 80

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
HDR ENGINEERING INC. OF THE CAROLINAS No. C0318

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 38413
CORY BEARD
2025.09.22 14:20:26-04'00'

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

LIGHTING PLAN SHEET
S-50 REL. (SPRINGDALE RD)
STA 136+40.00 TO STA 142+20.00
ROUNDABOUT NORTH
LINE A REL, LINE B REL, LINE E REL

SCALE 1" = 20'

SCALE : 1:20
PLOT DRIVER : pdf-fullsize.pltcfg
PLOTTED : 09\22\25
PEN TABLE : TextSub.tbl
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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	E11

N

MATCHLINE LINE A REL.
STA 13+60.00
SEE SHEET E10

MATCHLINE STA 142+20.00
SEE SHEET E10

LINE A REL.

S-50 (SPRINGDALE RD)

LINE A

E1-3<GPS>

T2-FO<GPS>

GW1-12DI<GPS>

GW(2)

TV1<GPS>

OH2-3(2)

T1-FO<GPS> T1.TV1<GPS> TV1<C>

E 1

EPB

B

S-50 REL. (SPRINGDALE RD)

P17-106W-TYPE III-30'-4'
STA. 142+89, 23.23' RT
CKT. CCA-1,3

END LIGHTING
S–50 (SPRINGDALE RD)
STA. 142 + 89

145

01

B

2" - 2-#6
1-#6 GND

0 20 40 60 80

HDR ENGINEERING INC.
OF THE CAROLINAS

1201 MAIN STREET
SUITE 800
COLUMBIA, SC, 29201
803-509-6600

SOUTH CAROLINA
HDR ENGINEERING INC.
OF THE CAROLINAS
No. C0318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 38413
CORY BEARD
2025.09.22 14:20:29-04'00'

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

LIGHTING PLAN SHEET
REL. S-50 (SPRINGDALE RD)
STA 142+20.00 TO STA 144+82.61
REL. LINE A

SCALE 1" = 20'

SCALE : 1:20
PLOT DRIVER : pdf-fullsize.pltcfg
PLOTTED : 09/22/25
PEN TABLE : TextSub.tbl
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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
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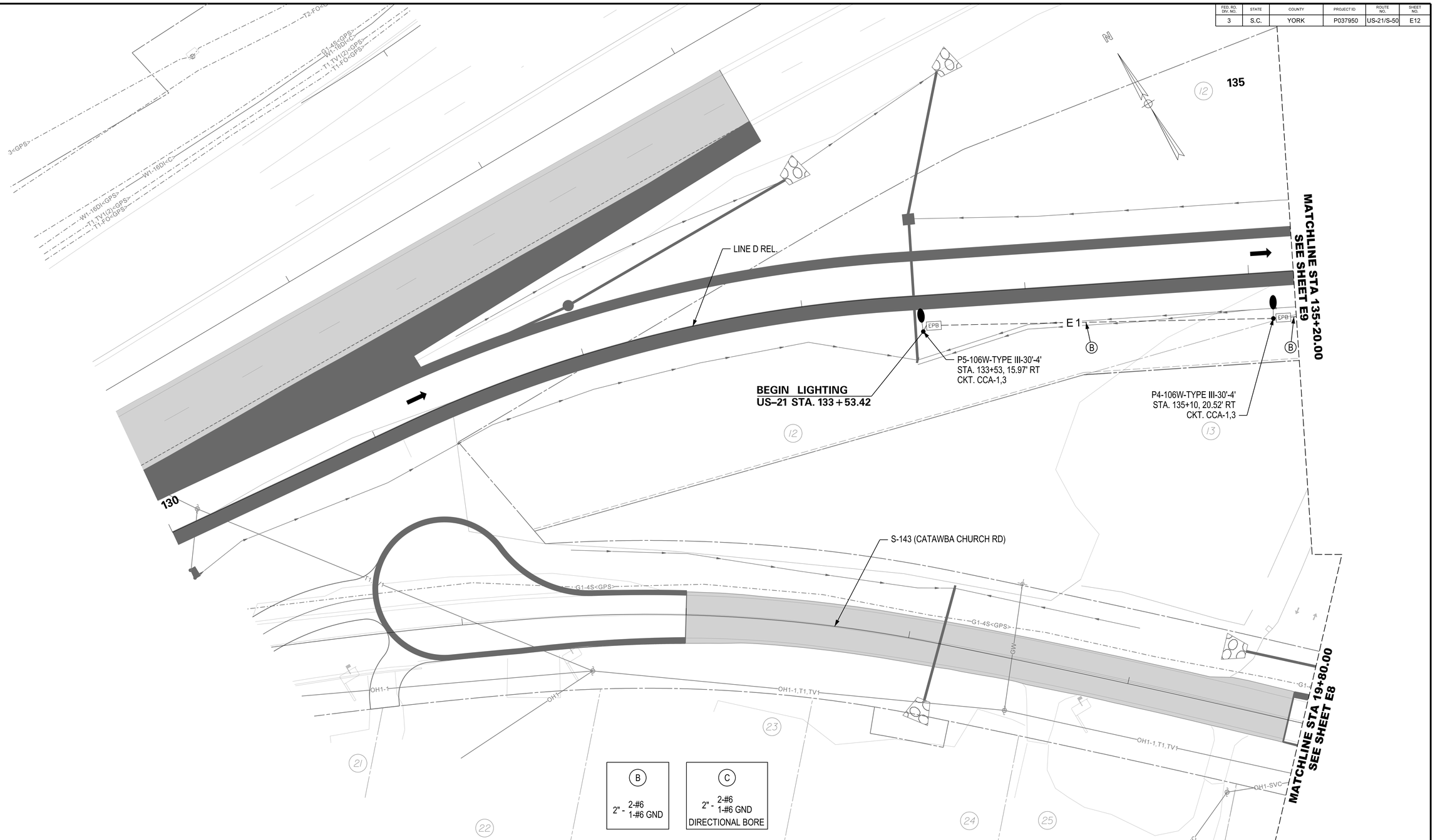

B	2" - 2-#6 1-#6 GND
C	2" - 2-#6 1-#6 GND DIRECTIONAL BORE

HDR ENGINEERING INC.
OF THE CAROLINAS

1201 MAIN STREET
SUITE 800
COLUMBIA, SC, 29201
803-509-6600

0 20 40 60 80

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — HDR ENGINEERING INC. OF THE CAROLINAS No. C038

SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 38413 — CORY BEARD — 2025.09.22 14:20:29-04'00'

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

LIGHTING PLAN SHEET
LINE D REL.
STA. 130+00.00 TO STA. 135+20.00
S-143 (CATAWBA CHURCH RD)
US 21, COUNTY RD

SCALE 1" = 20'

SCALE : 1:20
PLOT DRIVER : pdf-fullsize.pltcfg
PLOTTED : 09\22\25
PEN TABLE : TextSub.tbl
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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	E13

15

N

LINE B

MATCHLINE STA 18+40.00
SEE SHEET E10

E1

EPB

B

BEGIN LIGHTING
LINE B REL.
STA. 17 + 02

P15-106W-TYPE III-30'-4'
STA. 17+02, 16.13' RT
CKT. CCA-1,3

LINE B REL.

B
2" - 2-#6
1-#6 GND

31

9

HDR ENGINEERING INC.
OF THE CAROLINAS

1201 MAIN STREET
SUITE 800
COLUMBIA, SC, 29201
803-509-6600

0 20 40 60 80

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
HDR ENGINEERING INC. OF THE CAROLINAS No. C0318

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No. 38413
CORY BEARD
2025.09.22 14:20:32-04'00'

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

LIGHTING PLAN SHEET
LINE B REL.
STA. 16+50.00 TO STA. 18+40.00

SCALE 1" = 20'

SCALE : 1:20
PLOT DRIVER : pdf-fullsize.pltcfg
PLOTTED : 09\22\25
PEN TABLE : TextSub.tbl
FILE : ...\P037950_LTG_E13_PLAN_SHEET.dgn

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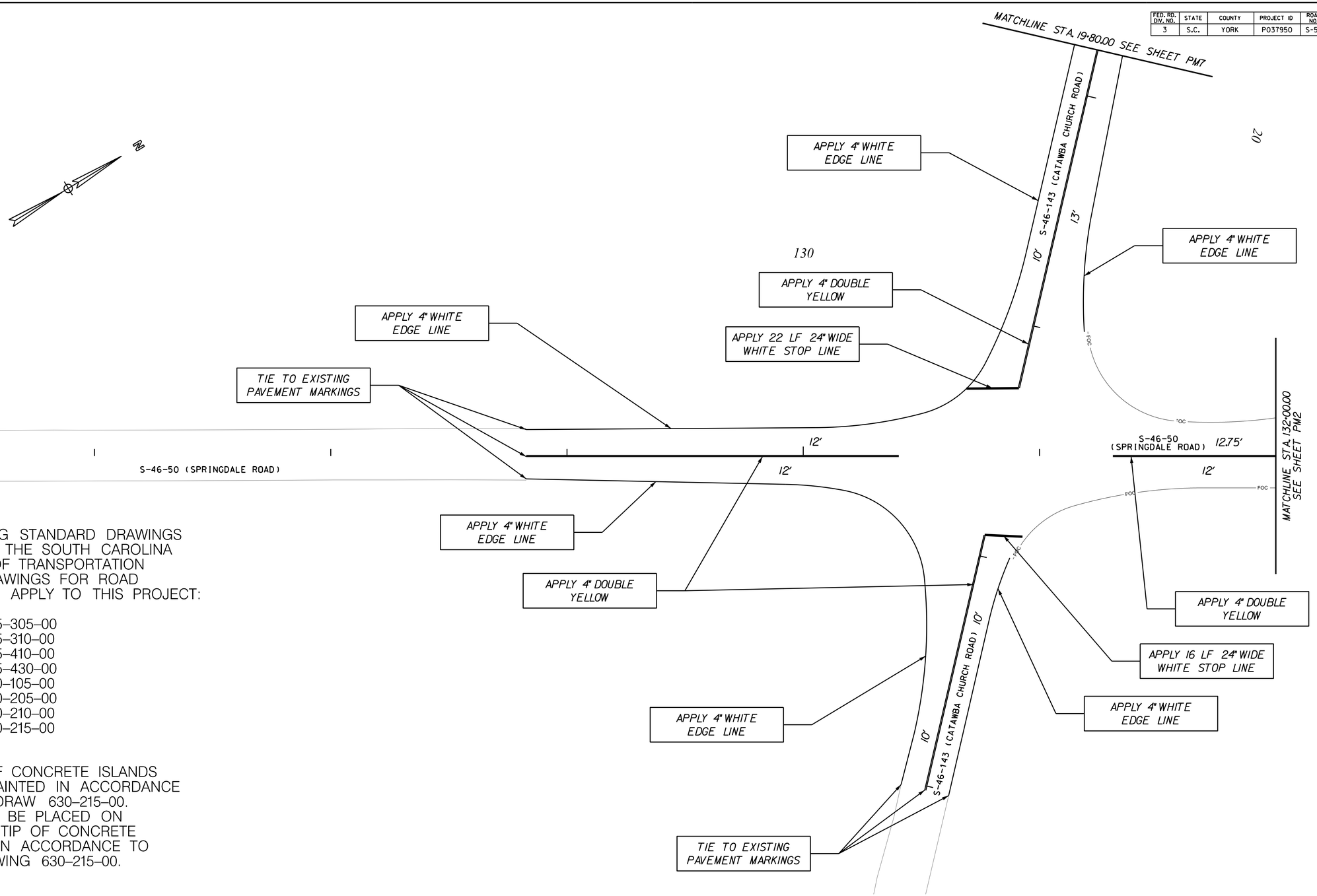
3	S.C.	YORK	P037950	S-50	PM1



THE FOLLOWING STANDARD DRAWINGS CONTAINED IN THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS FOR ROAD CONSTRUCTION APPLY TO THIS PROJECT:

DRAWING:
- 625-305-00
- 625-310-00
- 625-410-00
- 625-430-00
- 630-105-00
- 630-205-00
- 630-210-00
- 630-215-00

NOTE:
1) FACES OF CONCRETE ISLANDS TO BE PAINTED IN ACCORDANCE TO STD. DRAW 630-215-00.
2) RPM's TO BE PLACED ON LEADING TIP OF CONCRETE ISLANDS IN ACCORDANCE TO STD. DRAWING 630-215-00.

REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CHA, Inc. No. 4478 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

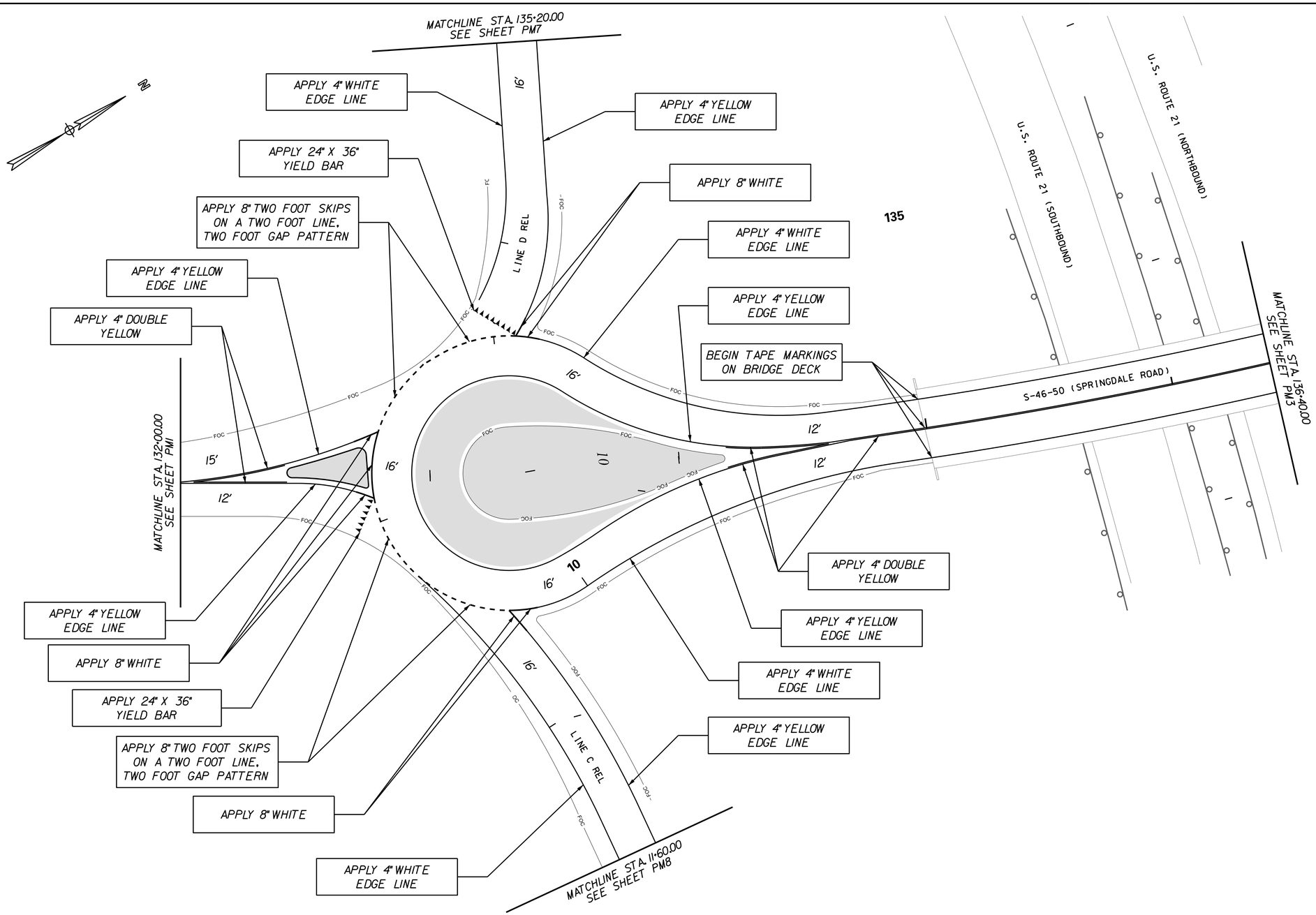
YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

PAVEMENT MARKING PLAN SHEET

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	PM2



REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA — CHA, Inc. No. 4478 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 30342 — ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

PAVEMENT MARKING PLAN SHEET

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	PM3

N

MATCHLINE STA. 17+20.00
SEE SHEET PM5

16' LINE A REL.

12'

LINE E REL. 16'

APPLY 8" WHITE EDGE LINE

APPLY 4" WHITE EDGE LINE

APPLY 8" TWO FOOT SKIPS ON A TWO FOOT LINE, TWO FOOT GAP PATTERN

APPLY 8" WHITE EDGE LINE

APPLY 24" WIDE WHITE CHEVRON SEE STANDARD DRAWING NUMBER 625-310-00

APPLY 24" X 36" YIELD BAR

APPLY 4" YELLOW EDGE LINE

APPLY 8" WHITE

APPLY 4" YELLOW EDGE LINE

APPLY 4" WHITE EDGE LINE

END TAPE MARKINGS ON BRIDGE DECK

MATCHLINE STA. 136+40.00
SEE SHEET PM2

S-46-50 (SPRINGDALE ROAD)

12'

12'

FOC

16'

140

15

LINE A REL.

16'

MATCHLINE LINE A REL. STA. 13+60.00
SEE SHEET PM4

APPLY 4" WHITE EDGE LINE

APPLY 4" DOUBLE YELLOW

APPLY 4" YELLOW EDGE LINE

APPLY 8" WHITE

APPLY 24" X 36" YIELD BAR

APPLY 4" YELLOW EDGE LINE

LINE B REL. 16'

MATCHLINE STA. 18+40.00
SEE SHEET PM9

APPLY 4" WHITE EDGE LINE

10

12'

4'

S-46-50 (SPRINGDALE ROAD)

12'

APPLY 4" WHITE EDGE LINE

APPLY 4" DOUBLE YELLOW

APPLY 4" YELLOW EDGE LINE

APPLY 8" WHITE

APPLY 8" TWO FOOT SKIPS ON A TWO FOOT LINE, TWO FOOT GAP PATTERN

MATCHLINE STA. 142+20.00
SEE SHEET PM4

REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED
1	08/26/25	REVISED PAVEMENT MARKINGS	R.L.D.	B.G.N.					

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 30342 REGISTERED ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

PAVEMENT MARKING PLAN SHEET

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	PM4

N

MATCHLINE LINE A REL STA 136+00.00
SEE SHEET PM3

MATCHLINE STA 142+20.00
SEE SHEET PM3

APPLY 24" WIDE WHITE CHEVRON SEE STANDARD DRAWING NUMBER 625-310-00

APPLY 8" WHITE

APPLY 4" WHITE EDGE LINE

APPLY 2' WHITE SKIP LINES @ 5' SPACING

TIE TO EXISTING PAVEMENT MARKINGS

LINE A REL.

16'

12'

4'

12'

12'

12'

S-46-50 (SPRINGDALE ROAD)

APPLY 4" DOUBLE YELLOW

APPLY 4" WHITE EDGE LINE

WILLIAMS INDUSTRIAL BOULEVARD

145

01

REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER ROBERT LEE DRUMMOND No. 30342

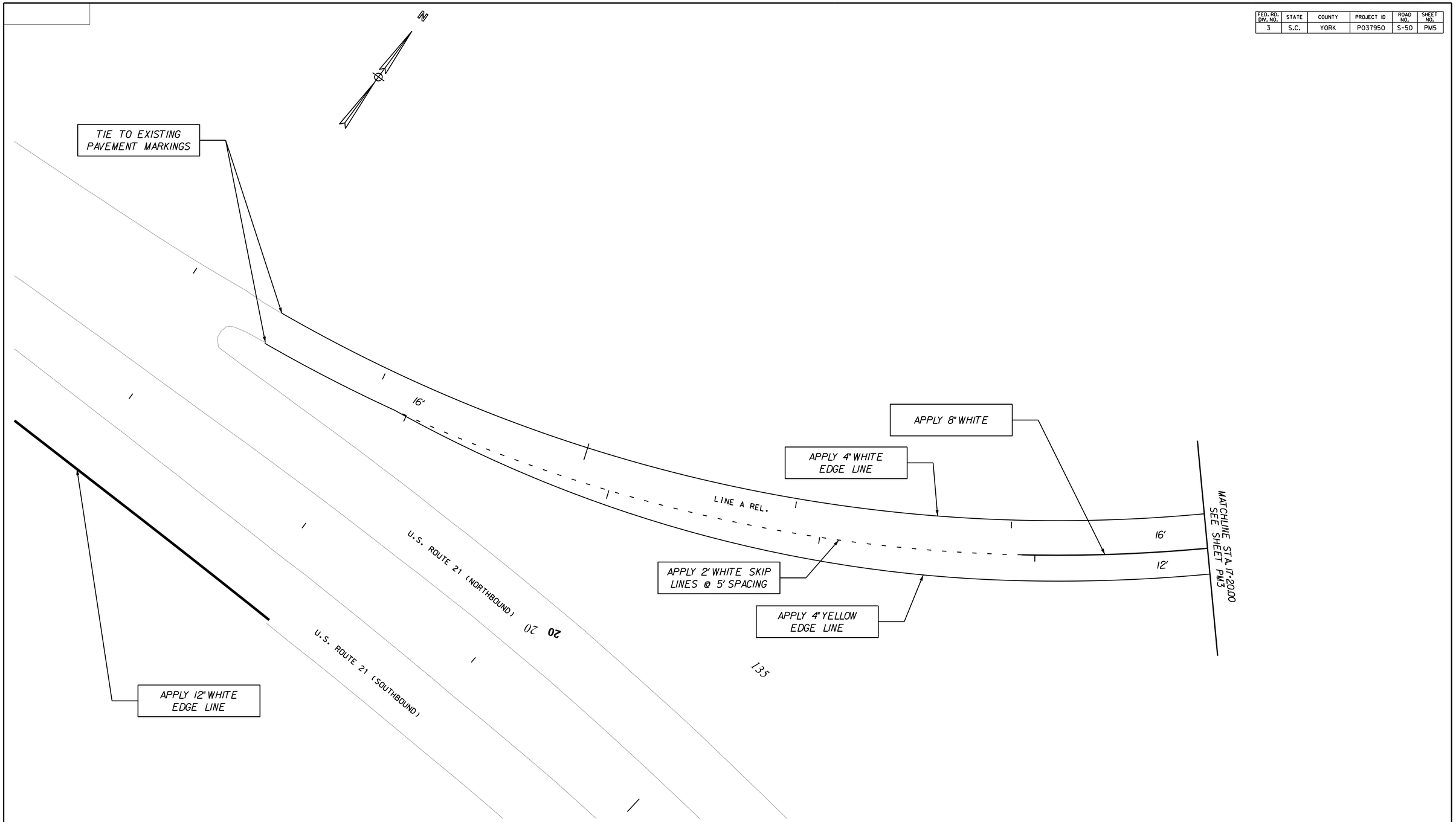
YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21 (ANDERSON RD)

PAVEMENT MARKING PLAN SHEET

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	PM5



REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED
1	08/26/25	REVISED PAVEMENT MARKINGS	R.L.D.	B.G.N.					

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA — CHA, Inc. No. 4478 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 30342 — ROBERT LEE DRUMMOND

Docusigned by: 9667B7B0B0B0B0B...

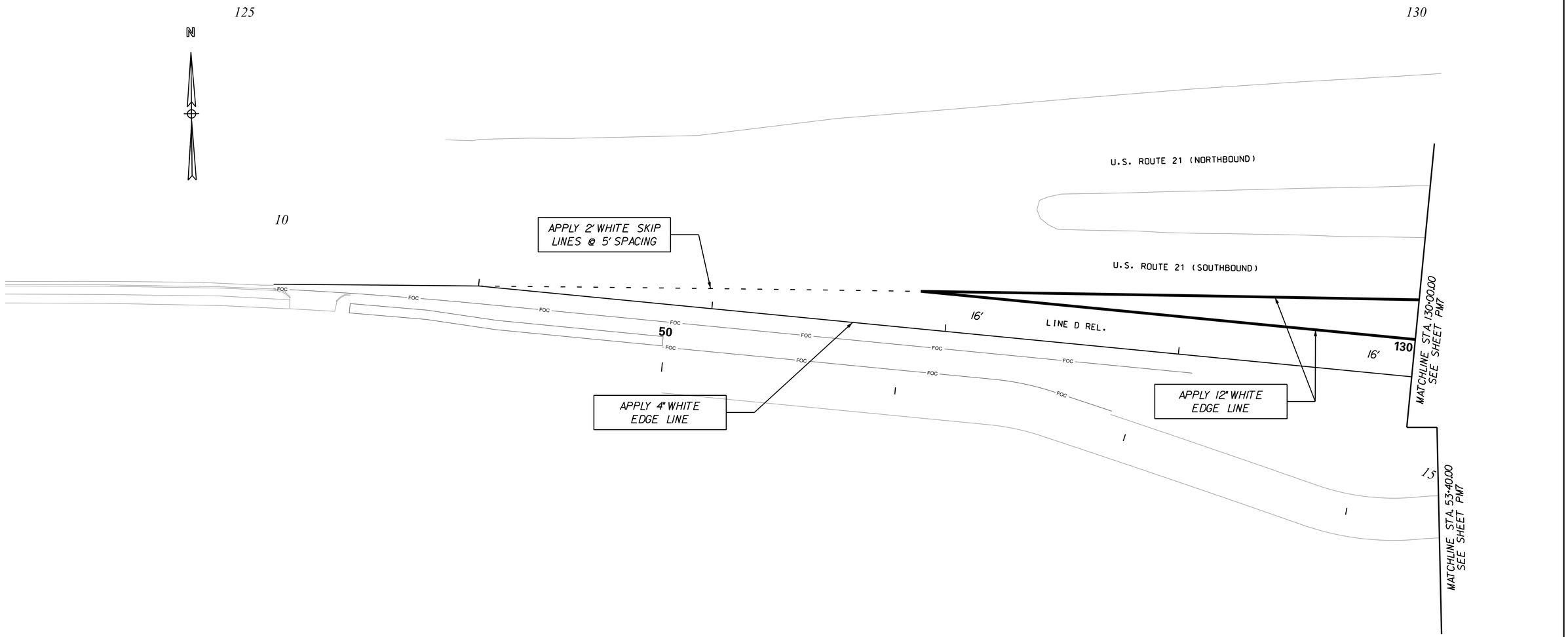
YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

PAVEMENT MARKING PLAN SHEET

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	PM6



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DRAWN BY : R.L.D.
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DATE : 08/16/23

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DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA — CHA, Inc. No. 4478 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 30342 — ROBERT LEE DRUMMOND

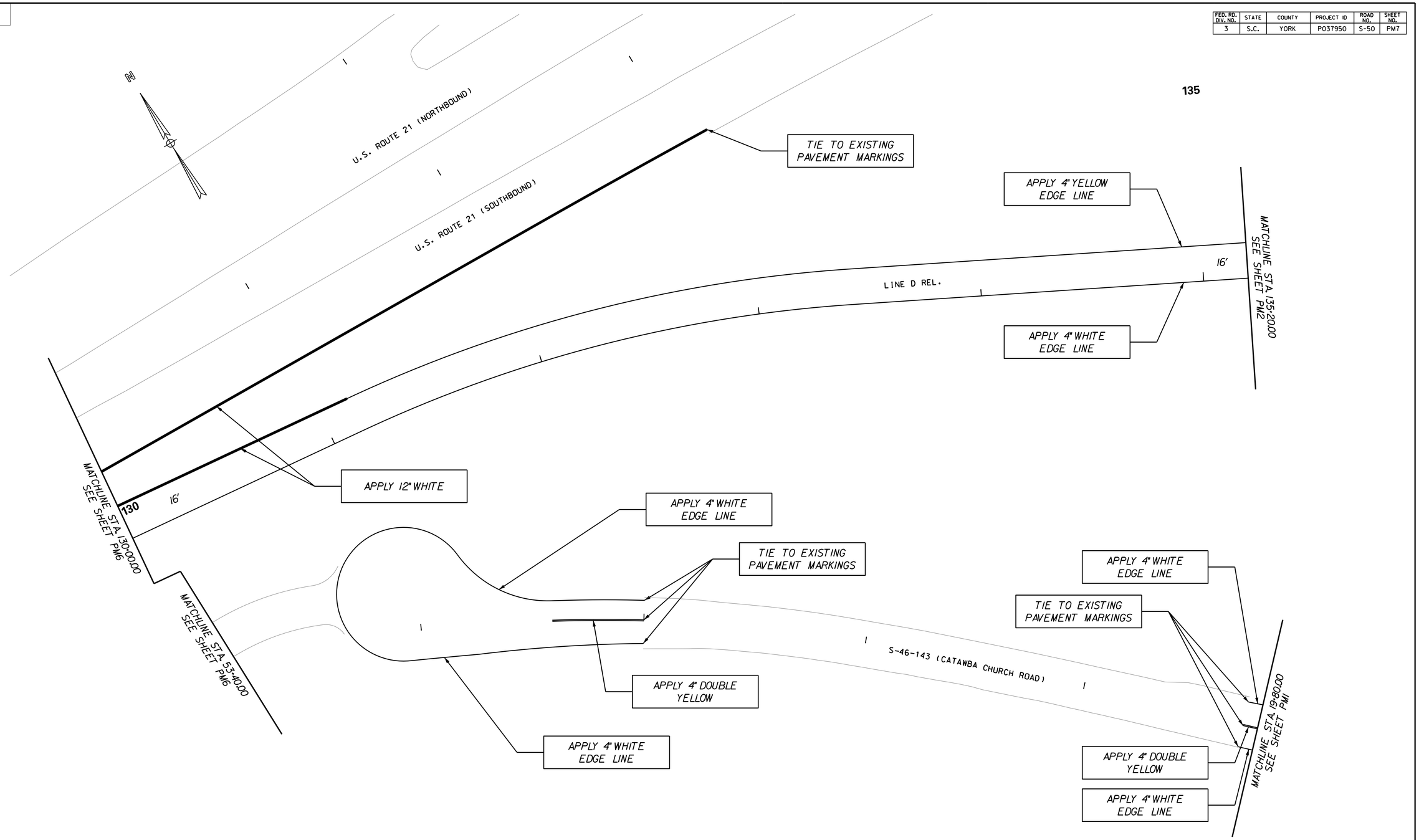
YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT
S-50 (SPRINGDALE RD) AND
US 21(ANDERSON RD)

PAVEMENT MARKING PLAN SHEET

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	PM7



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DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 0

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

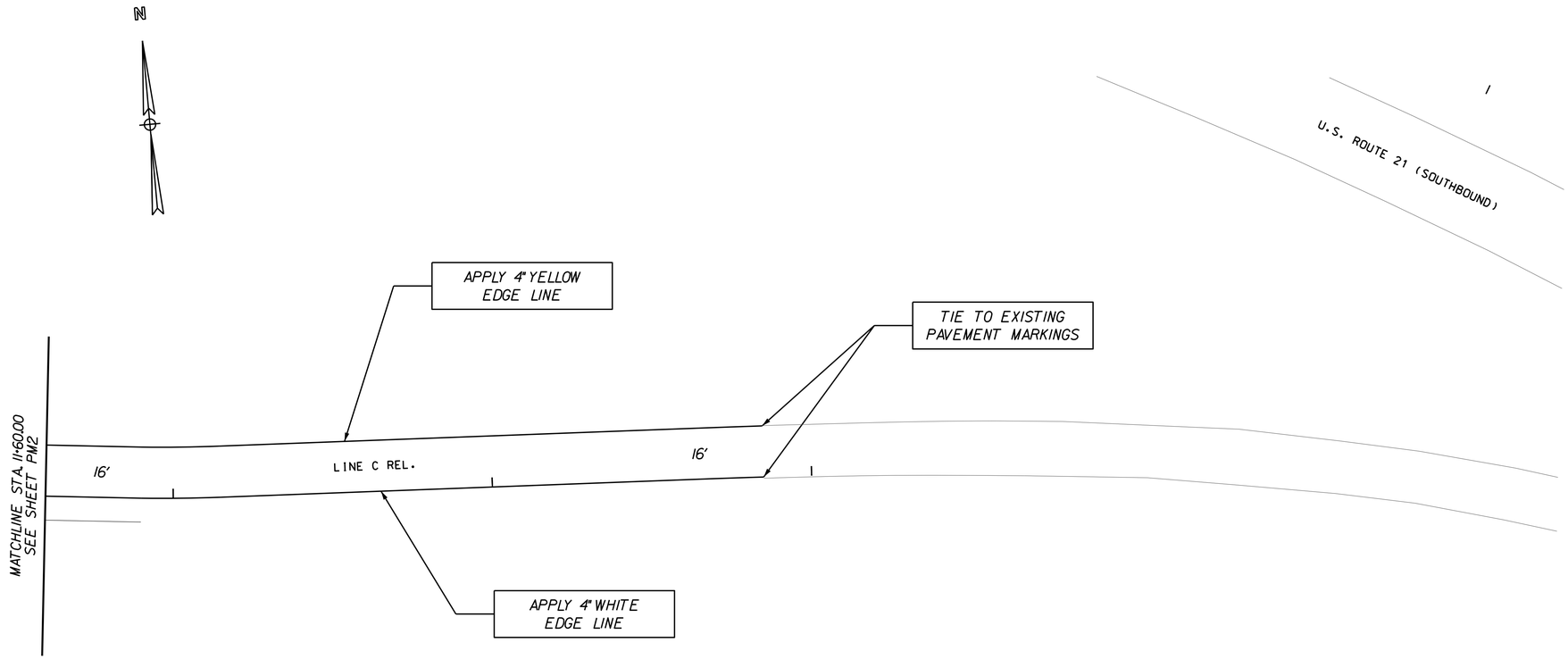
YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

PAVEMENT MARKING PLAN SHEET

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	PM8



REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

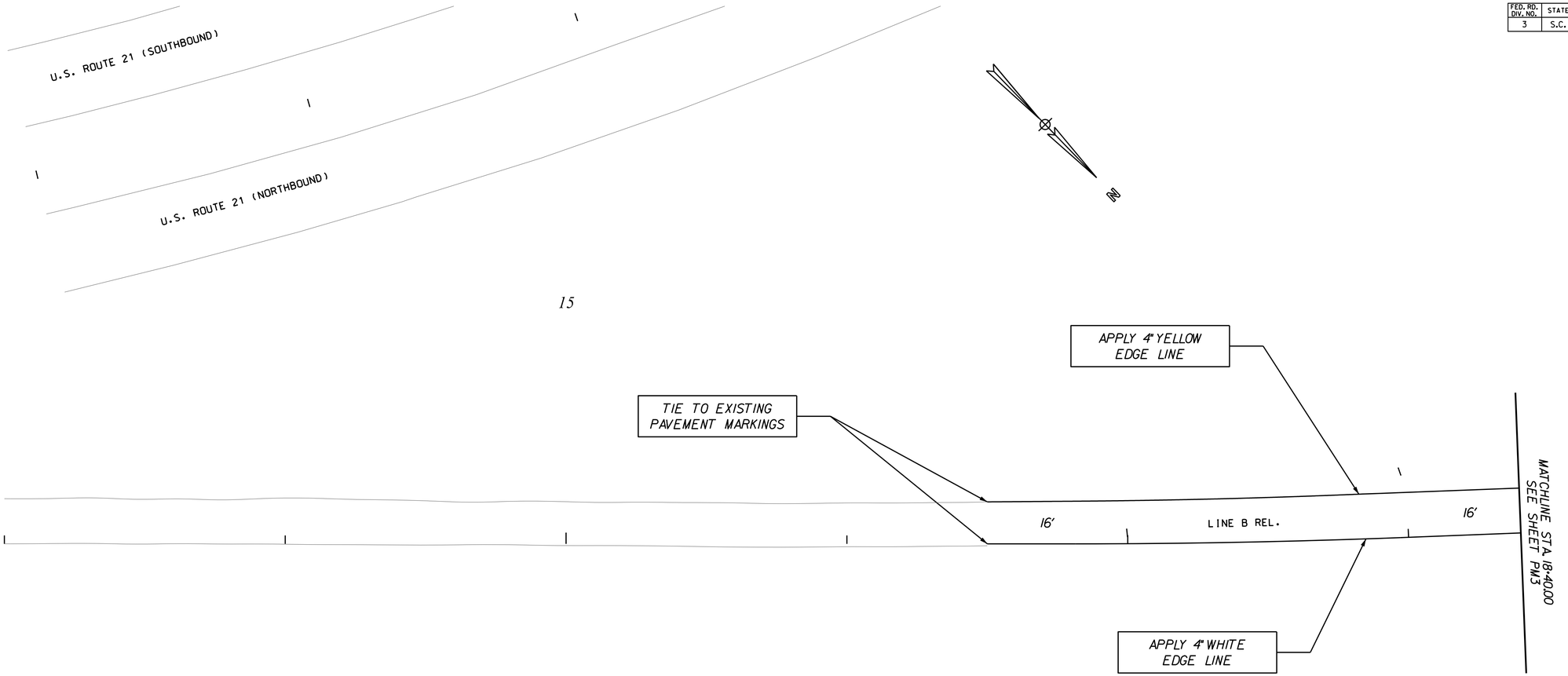
YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21 (ANDERSON RD)

PAVEMENT MARKING PLAN SHEET

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	PM9



REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

PAVEMENT MARKING PLAN SHEET

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

MULTIPLE PANEL SIGNS TO BE MOUNTED ON I-BEAM BREAKAWAY POSTS

ITEMIZED LISTING OF ESTIMATED QUANTITIES

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	SNI

6510105	FLAT SHEET TYPE III, FIXED SIZE AND MESSAGE SIGN				
SIGN NUMBER	SIZE WIDTH (IN)	SIZE HEIGHT (IN)	AREA (SQ. FT.)	QUANTITY	TOTAL AREA (SQ. FT.)
I-20-36	36	18	4.50	1	4.50
R1-1-30	30	30	6.25	1	6.25
R1-1-48	48	48	16.00	1	16.00
R1-2-36	36 X 36 X 36		3.90	8	31.20
R2-1-30-55	30	36	7.50	1	7.50
R4-7-24	24	30	5.00	2	10.00
R5-1-30	30	30	6.25	4	25.00
R5-1a-36	36	24	6.00	4	24.00
R6-1R-36	36	24	6.00	4	24.00
R6-1L-36	36	24	6.00	4	24.00
R6-4-30	30	24	5.00	4	20.00
R11-5-36	36	24	6.00	1	6.00
OM-3R-12	12	36	3.00	2	6.00
OM-3L-12	12	36	3.00	2	6.00
OM4-3-18	18	18	2.25	2	4.50
W2-6-30	30	30	6.25	4	25.00
W8-13-36	36	36	9.00	2	18.00
W11-16-30	30	30	6.25	1	6.25
W13-1P-18-15	18	18	2.25	4	9.00
W14-1-30	30	30	6.25	1	6.25
M1-4-24-21	24	24	4.00	8	32.00
M1-5-30-5	24	24	4.00	8	32.00
M3-1-24	24	12	2.00	4	8.00
M3-3-24	24	12	2.00	4	8.00
M5-3-21	21	15	2.19	2	4.38
M6-2R-21	21	15	2.19	4	8.76
M6-3-21	21	15	2.19	2	4.38
E5-1-72	72	60	30.00	1	30.00
			6510105	TOTAL	406.97

6510105	FLAT SHEET TYPE III, FIXED SIZE AND MESSAGE SIGN (CONT'D)				
SIGN NUMBER	SIZE WIDTH (IN)	SIZE HEIGHT (IN)	AREA (SQ. FT.)	QUANTITY	TOTAL AREA (SQ. FT.)
			6510105	SUBTOTAL	

6510105	FLAT SHEET TYPE III, FIXED SIZE AND MESSAGE SIGN (CONT'D)				
SIGN NUMBER	SIZE WIDTH (IN)	SIZE HEIGHT (IN)	AREA (SQ. FT.)	QUANTITY	TOTAL AREA (SQ. FT.)
			6510105	SUBTOTAL	

6510109	FLAT SHEET TYPE VIII, IX, OR XI FLOUR. FIXED SIZE AND MESSAGE SIGN				
SIGN NUMBER	SIZE WIDTH (IN)	SIZE HEIGHT (IN)	AREA (SQ. FT.)	QUANTITY	TOTAL AREA (SQ. FT.)
			6510109	TOTAL	0.00

6510106	ENCLOSED LENS, TYPE III, FLAT SHEET, SIZE DETERMINED BY MESSAGE				
SIGN NUMBER	SIZE WIDTH (IN)	SIZE HEIGHT (IN)	AREA (SQ. FT.)	QUANTITY	TOTAL AREA (SQ. FT.)
D1-1-8 #1	78	18	9.75	1	9.75
D1-1-8 #2	72	18	9.00	1	9.00
D1-1-8 #3	60	18	7.50	1	7.50
D1-2-8 #1	72	30	15.00	1	15.00
D1-2-8 #2	72	30	15.00	1	15.00
D1-2-8 #3	78	30	16.25	1	16.25
D1-2-8 #4	72	30	15.00	1	15.00
D1-2-8 #5	72	30	15.00	1	15.00
D1-2-8 #6	78	30	16.25	1	16.25
D1-2-8 #7	72	30	15.00	1	15.00
D1-2-8 #8	72	30	15.00	1	15.00
D1-2-8 #9	72	30	15.00	1	15.00
D1-2-8 #10	72	30	15.00	1	15.00
			6510106	TOTAL	178.75

1	08/26/25	REVISED 6510105 QUANTITY R.L.D. B.G.N.

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CMA, Inc. No. 4478

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

$$$$$$path$$$$$$$$filename$$$$$$$$
$$$$date$$$$

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

MULTIPLE PANEL SIGNS TO BE MOUNTED ON I–BEAM BREAKAWAY POSTS

ITEMIZED LISTING OF ESTIMATED QUANTITIES

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	SN2

MULTIPLE PANEL SIGN ATTACHED TO MULTIPLE PANEL SIGN WITH TWO 5.00 FT. 3P U-SECTION INCLUDING SUPPORTS				
6520200	PANELS NOT REQUIRING ANY COPY REPOSITIONING COMPLETE WITH NUMERALS AND EXIT COPY			
SIGN NUMBER	STATION	SIGN SURFACE TYPE	SIZE (FEET) W x H	AREA (SQ. FT.)

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	SN3

SCDOT

Project ID No.: P037950 | County: YORK

2.3" Radius, 1.0" Border, White on Green;
"Lancaster", D;
Standard Arrow Custom 10.5" X 6.0" 45°;
Table of distances between letter and object lefts

L	a	n	c	a	s	t	e	r	⇗
6.4	6.2	7.1	6.5	6.1	6.3	5.8	5.0	6.6	7.4	8.2	6.4

Sign No.: D1-1-8 (*1)
Number of Signs: 1
Reflec. Type: TYPE III
Refers to sheet(s): SN6
Panel Size: 6.5' X 1.5'

SCDOT

Project ID No.: P037950 | County: YORK

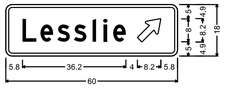
2.3" Radius, 1.0" Border, White on Green;
"Rock", D; "Hill", D;
Standard Arrow Custom 10.5" X 6.0" 45°;
Table of distances between letter and object lefts

R	o	c	k	H	i	l	l	⇗
6.5	7.2	6.1	6.6	9.7	8.2	3.8	3.9	5.2	8.3	6.5

Sign No.: D1-1-8 (*2)
Number of Signs: 1
Reflec. Type: TYPE III
Refers to sheet(s): SN7
Panel Size: 6.0' X 1.5'

SCDOT

Project ID No.: P037950 | County: YORK



2.3" Radius, 1.0" Border, White on Green;
"Lesslie", D;
Standard Arrow Custom 10.5" X 6.0" 45°;
Table of distances between letter and object lefts

L	e	s	l	i	e	⇗
5.8	6.3	5.9	5.8	6.5	3.9	3.3	6.5	8.2	5.8

Sign No.: D1-1-8 (*3)
Number of Signs: 1
Reflec. Type: TYPE III
Refers to sheet(s): SN10
Panel Size: 5.0' X 1.5'

SCDOT

Project ID No.: _____ | County: _____

INTENTIONALLY BLANK

Sign No.: _____
Number of Signs: _____
Reflec. Type: _____
Refers to sheet(s): _____
Panel Size: _____

SCDOT

Project ID No.: _____ | County: _____

INTENTIONALLY BLANK

Sign No.: _____
Number of Signs: _____
Reflec. Type: _____
Refers to sheet(s): _____
Panel Size: _____

SCDOT

Project ID No.: _____ | County: _____

INTENTIONALLY BLANK

Sign No.: _____
Number of Signs: _____
Reflec. Type: _____
Refers to sheet(s): _____
Panel Size: _____

SCDOT

Project ID No.: _____ | County: _____

INTENTIONALLY BLANK

Sign No.: _____
Number of Signs: _____
Reflec. Type: _____
Refers to sheet(s): _____
Panel Size: _____

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

9/23/2025

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

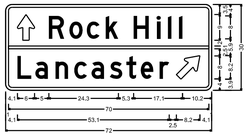
$$$$$$path$$$$$$$$filename$$$$$$$$
$$date$$$$

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	SN4

SCDOT

Project ID No.: P037950 **County:** YORK

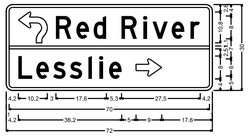


2.3" Radius, 1.0" Border, White on Green:
Standard Arrow Custom 9.0" X 6.0" 90°: "Rock", D; "Hill", D;
"Lancaster", D; Standard Arrow Custom 10.5° X 6.0" 45°:
Table of distances between letter and object lefts

Sign No.: D1-2-8 (*1)
Number of Signs: 1
Reflec. Type: TYPE III
Refers to sheet(s): SN6
Panel Size: 6.0' X 2.5'

SCDOT

Project ID No.: P037950 **County:** YORK

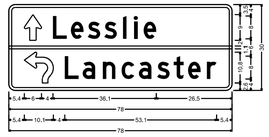


2.3" Radius, 1.0" Border, White on Green:
"Red", D; "River", D; "Lesslie", D;
Standard Arrow Custom 9.0° X 6.0° 0°:
Table of distances between letter and object lefts

Sign No.: D1-2-8 (*2), (*9)
Number of Signs: 2
Reflec. Type: TYPE III
Refers to sheet(s): SN6, SN11
Panel Size: 6.0' X 2.5'

SCDOT

Project ID No.: P037950 **County:** YORK



2.3" Radius, 1.0" Border, White on Green:
Standard Arrow Custom 9.0° X 6.0° 90°: "Lesslie", D; "Lancaster", D;
Table of distances between letter and object lefts

Sign No.: D1-2-8 (*3), (*6)
Number of Signs: 2
Reflec. Type: TYPE III
Refers to sheet(s): SN6, SN7
Panel Size: 6.5' X 2.5'

SCDOT

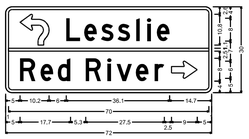
Project ID No.: P037950 **County:** YORK

2.3" Radius, 1.0" Border, White on Green:
Standard Arrow Custom 9.0" X 6.0" 90°: "Red", D; "River", D;
"Rock", D; "Hill", D;
Table of distances between letter and object lefts

Sign No.: D1-2-8 (*4), (*5)
Number of Signs: 2
Reflec. Type: TYPE III
Refers to sheet(s): SN6, SN7
Panel Size: 6.0' X 2.5'

SCDOT

Project ID No.: P037950 **County:** YORK

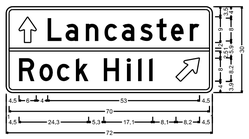


2.3" Radius, 1.0" Border, White on Green:
"Lesslie", D; "Red", D; "River", D;
Standard Arrow Custom 9.0° X 6.0° 0°:
Table of distances between letter and object lefts

Sign No.: D1-2-8 (*7), (*10)
Number of Signs: 2
Reflec. Type: TYPE III
Refers to sheet(s): SN7, SN13
Panel Size: 6.0' X 2.5'

SCDOT

Project ID No.: P037950 **County:** YORK



2.3" Radius, 1.0" Border, White on Green:
Standard Arrow Custom 9.0° X 6.0° 90°: "Lancaster", D; "Rock", D;
"Hill", D; Standard Arrow Custom 10.5° X 6.0° 45°:
Table of distances between letter and object lefts

Sign No.: D1-2-8 (*8)
Number of Signs: 1
Reflec. Type: TYPE III
Refers to sheet(s): SN8
Panel Size: 6.0' X 2.5'

SCDOT

Project ID No.: **County:**

INTENTIONALLY BLANK

Sign No.:
Number of Signs:
Reflec. Type:
Refers to sheet(s):
Panel Size:

SCDOT

Project ID No.: **County:**

INTENTIONALLY BLANK

Sign No.:
Number of Signs:
Reflec. Type:
Refers to sheet(s):
Panel Size:

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

$$$$$$$pathd$$$$$$$$filename$$$$$$$$
$$$$date$$$$

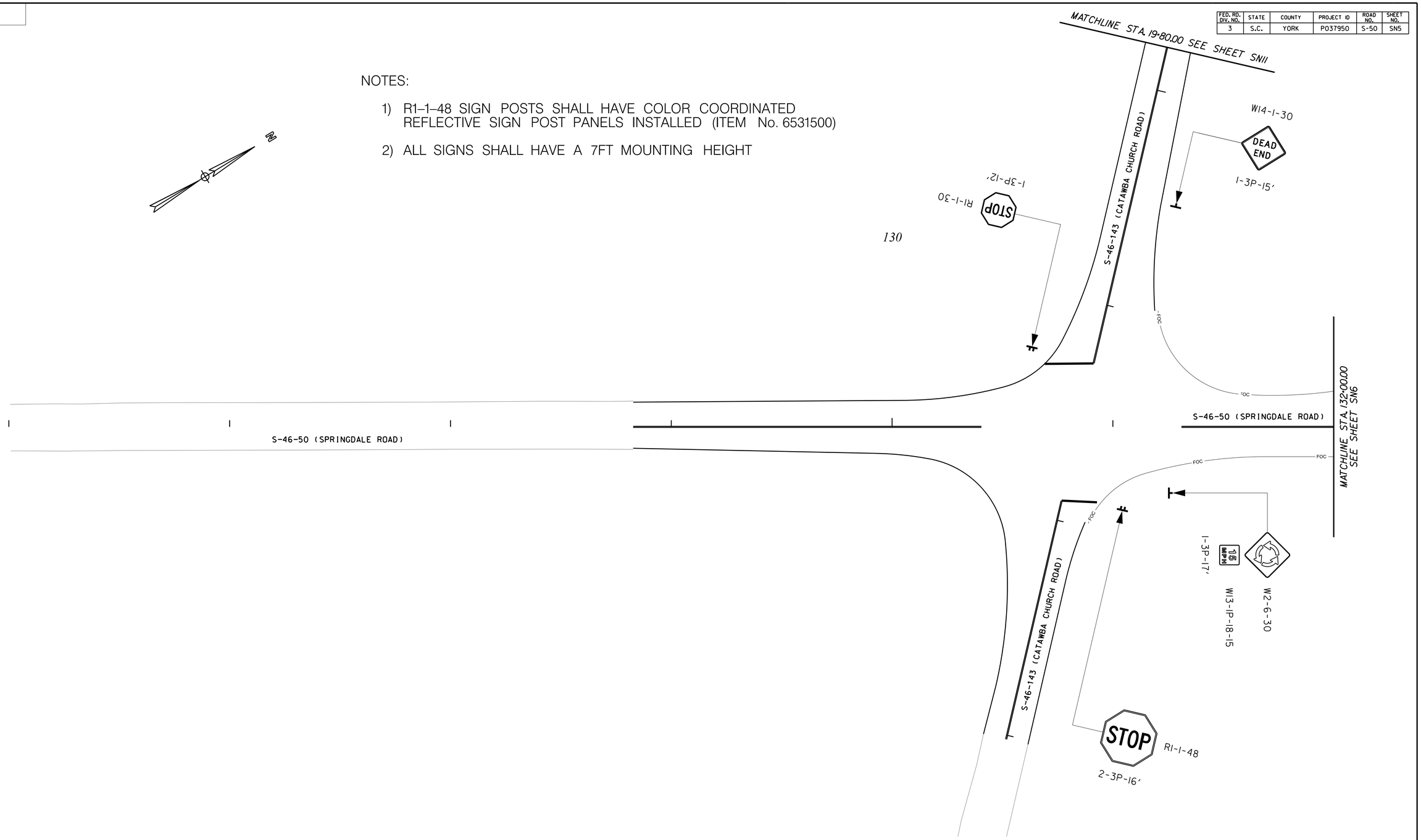
Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	SN5

NOTES:

1) R1–1–48 SIGN POSTS SHALL HAVE COLOR COORDINATED REFLECTIVE SIGN POST PANELS INSTALLED (ITEM No. 6531500)

2) ALL SIGNS SHALL HAVE A 7FT MOUNTING HEIGHT



REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D. DATE : 07/12/23

REVIEWED BY : B.G.N. DATE : 08/16/23

APPROVED BY : R.L.D. DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

9/23/2025

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

SIGNING PLAN SHEET

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	SN6

MATCHLINE STA. 135+20.00
SEE SHEET SN11

LINE D REL

LINE C REL

S-46-50 (SPRINGDALE ROAD)

U.S. ROUTE 21 (SOUTHBOUND)

U.S. ROUTE 21 (NORTHBOUND)

135

10

MATCHLINE STA. 132+00.00
SEE SHEET SN5

MATCHLINE STA. 136+40.00
SEE SHEET SN7

MATCHLINE STA. 11+60.00
SEE SHEET SN12

N

R1-2-36 YIELD
I-3P-15'
2-3P-14' BR @ 56°
D1-2-8 #2 (72") Red River Lesslie
R6-1R-36
R6-1L-36
I-3P-14' ONE WAY
D1-2-8 #3 (78") Lesslie Lancaster
M3-3-24 SOUTH 21
MI-4-24-21 5
MI-5-30-5
M5-3-21
2-3P-20' 2-2P BR @ 60"
R5-1-30 DO NOT ENTER
R4-7-24
I-2P-10'
OM-3L-12
OM-3R-12
R6-4-30
W8-13-36 BRIDGE ICES BEFORE ROAD
2-3P-15'
D1-2-8 #4 (72") Red River Rock Hill
M3-1-24 NORTH 21
MI-4-24-21 5
MI-5-30-5
M6-3-21
2-3P-20' 2-2P BR @ 56°
D1-2-8 #1 (72") Rock Hill Lancaster
2-2P-19' BR @ 60°
M6-2R-21
M3-3-24 SOUTH 21
MI-4-24-21 5
MI-5-30-5
M6-2R-21
D1-1-8 #1 (78") Lancaster
R6-4-30
I-3P-14'

REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80
SCALE: 1" = 20' HORIZ

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

9/23/2025
SOUTH CAROLINA PROFESSIONAL ENGINEER Ind. 30342 ROBERT LEE DRUMMOND
DocuSigned by: Robert Drummond 8A87E0B8E4E4E4...

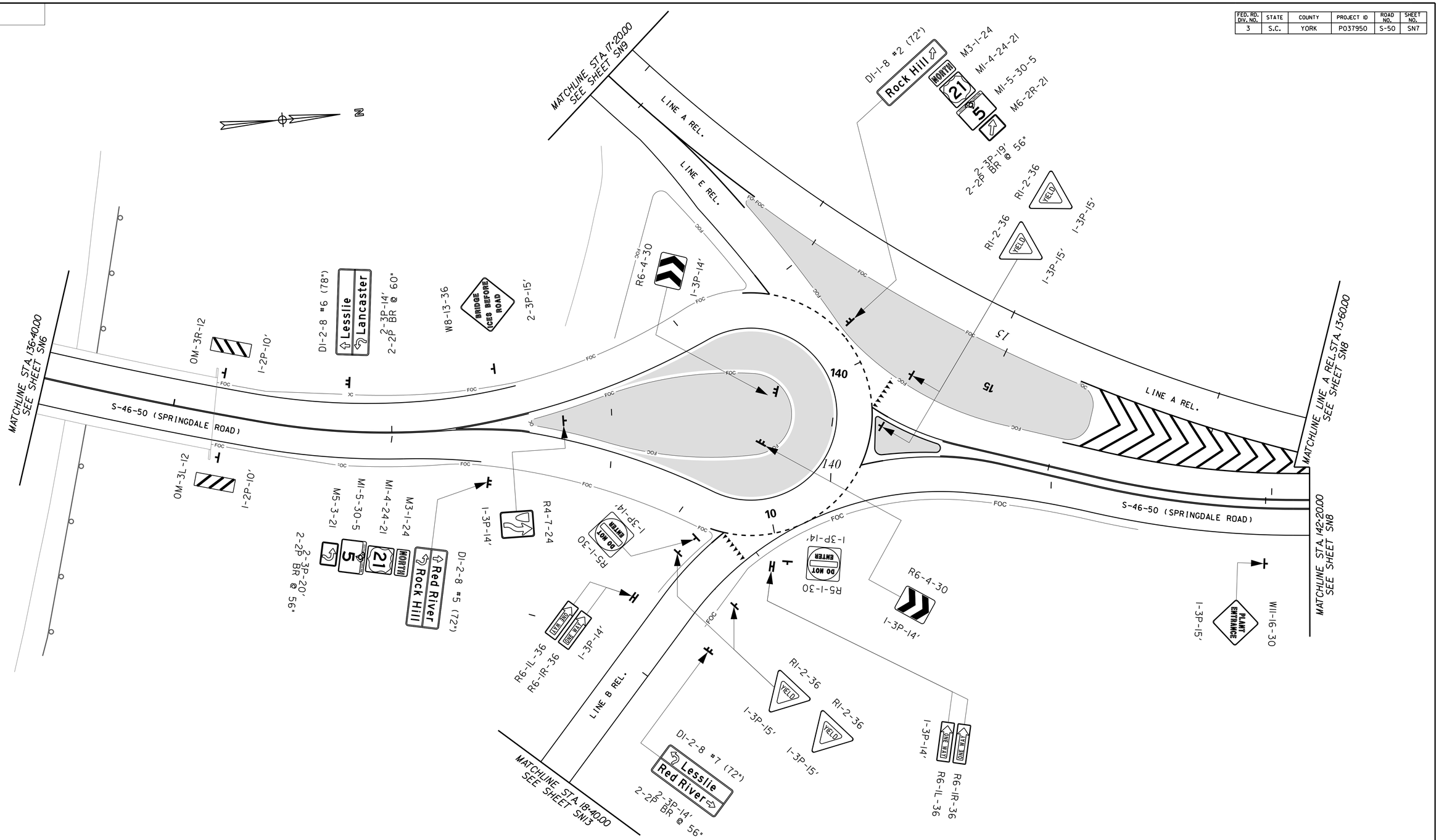
YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT
S-50 (SPRINGDALE RD) AND
US 21(ANDERSON RD)

SIGNING PLAN SHEET

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	SN7



REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED
1	08/26/25	REVISED PAVEMENT MARKINGS AND SIGNING	R.L.D.	B.G.N.					

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80
SCALE: 1" = 20' HORIZ

9/23/2025
SOUTH CAROLINA
CHA, Inc.
No. 4478
CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA
REGISTERED
PROFESSIONAL
ENGINEER
No. 30342
ROBERT LEE DRUMMOND
Docusigned by: Robert Lee Drummond
3078281C4F0E4E0...

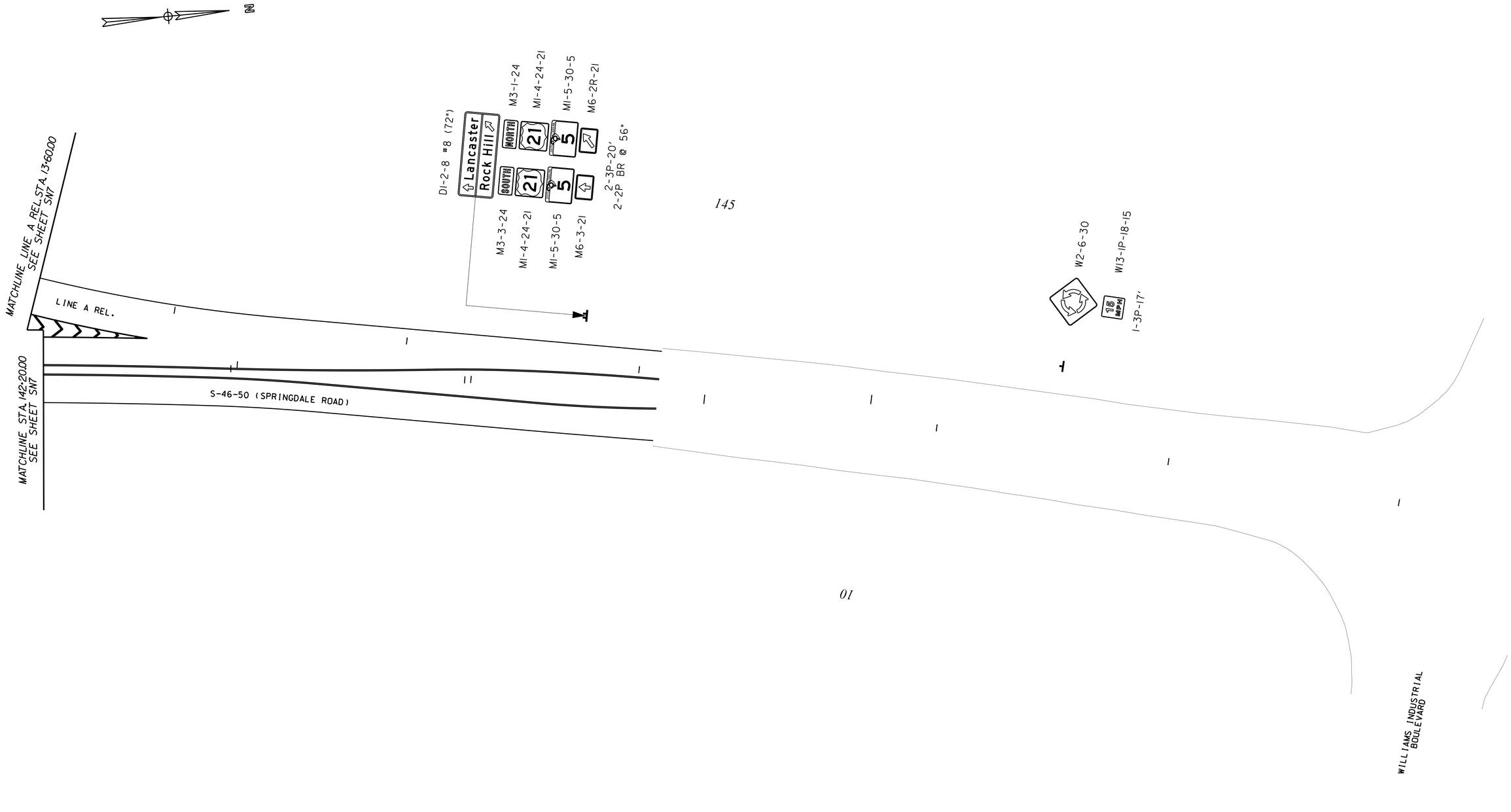
YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT
S-50 (SPRINGDALE RD) AND
US 21(ANDERSON RD)

SIGNING PLAN SHEET

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	SN8



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DRAWN BY : R.L.D.
DATE : 07/12/23

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DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA
CHA, Inc.
No. 4478
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 30362
ROBERT LEE DRUMOND

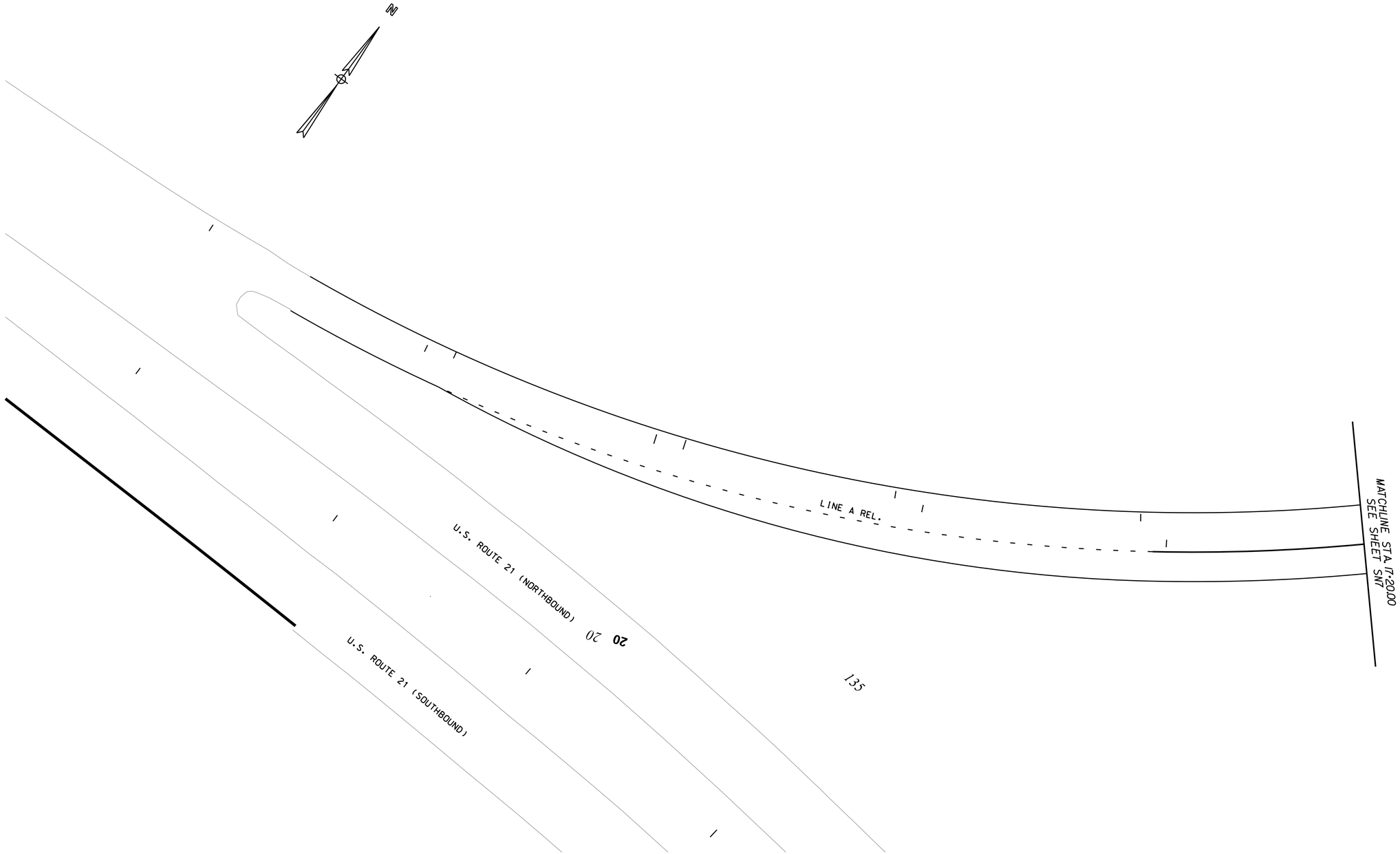
YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT
S-50 (SPRINGDALE RD) AND
US 21(ANDERSON RD)

SIGNING PLAN SHEET

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	SN9



REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED
1	08/26/25	REVISED PAVEMENT MARKINGS AND SIGNING	R.L.D.	B.G.N.

REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA PROFESSIONAL ENGINEER ROBERT LEE DRUMMOND No. 30342

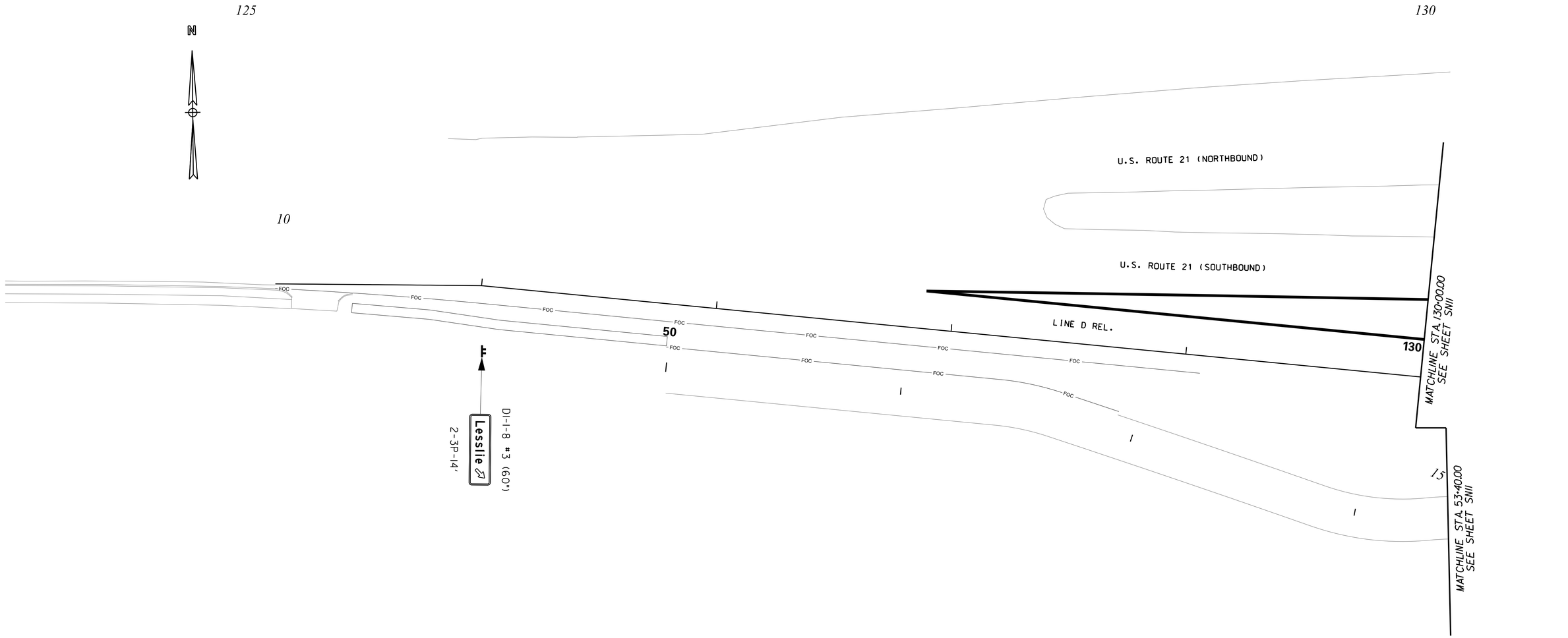
YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

SIGNING PLAN SHEET

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	SN10



REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80
SCALE: 1" = 20' HORIZ

9/23/2025
SOUTH CAROLINA
CHA, Inc.
No. 4478
CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 30342
ROBERT LEE DRUMOND
Docusigned by: 3667B5

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT
S-50 (SPRINGDALE RD) AND
US 21(ANDERSON RD)

SIGNING PLAN SHEET

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	SNII

N

U.S. ROUTE 21 (NORTHBOUND)

U.S. ROUTE 21 (SOUTHBOUND)

135

R2-1-30-55
SPEED LIMIT 55
1-3P-15'

R5-1a-36
WRONG WAY
2-3P-14'

LINE D REL.

MATCHLINE STA 135+20.00
SEE SHEET SN6

D1-2-8 # 9 (72")
Red River
Lesslie
2-3P-14'
2-2P BR @ 56"

R5-1a-36
WRONG WAY
2-3P-14'

W2-6-30

W13-1P-18-15

1-3P-17'

130

MATCHLINE STA 130+00.00
SEE SHEET SN10

I-20-36
END STATE MAINTENANCE
1-3P-13'

E5-1-72
EXIT
2-3P-17'

OM4-3-18

R11-5-36
ROAD CLOSED

OM4-3-18

INSTALL TYPE III BARRICADE WITH (2) 4 FT. ORANGE AND WHITE REFLECTIVE SHEETING ACROSS ENTIRE ROADWAY AT LOCATION AS ILLUSTRATED ON "RECOMMENDED CHANNELIZATION" SIGN. INSTALL ONE 4 FOOT SQUARE ORANGE AND WHITE REFLECTIVE SHEETING "ROAD CLOSED" SIGN ON EACH BARRICADE.

S-46-143 (CATAWBA CHURCH ROAD)

MATCHLINE STA 19+80.00
SEE SHEET SN5

REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 0

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA
CHA, Inc.
No. 4478
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 30342
ROBERT LEE DRUMMOND

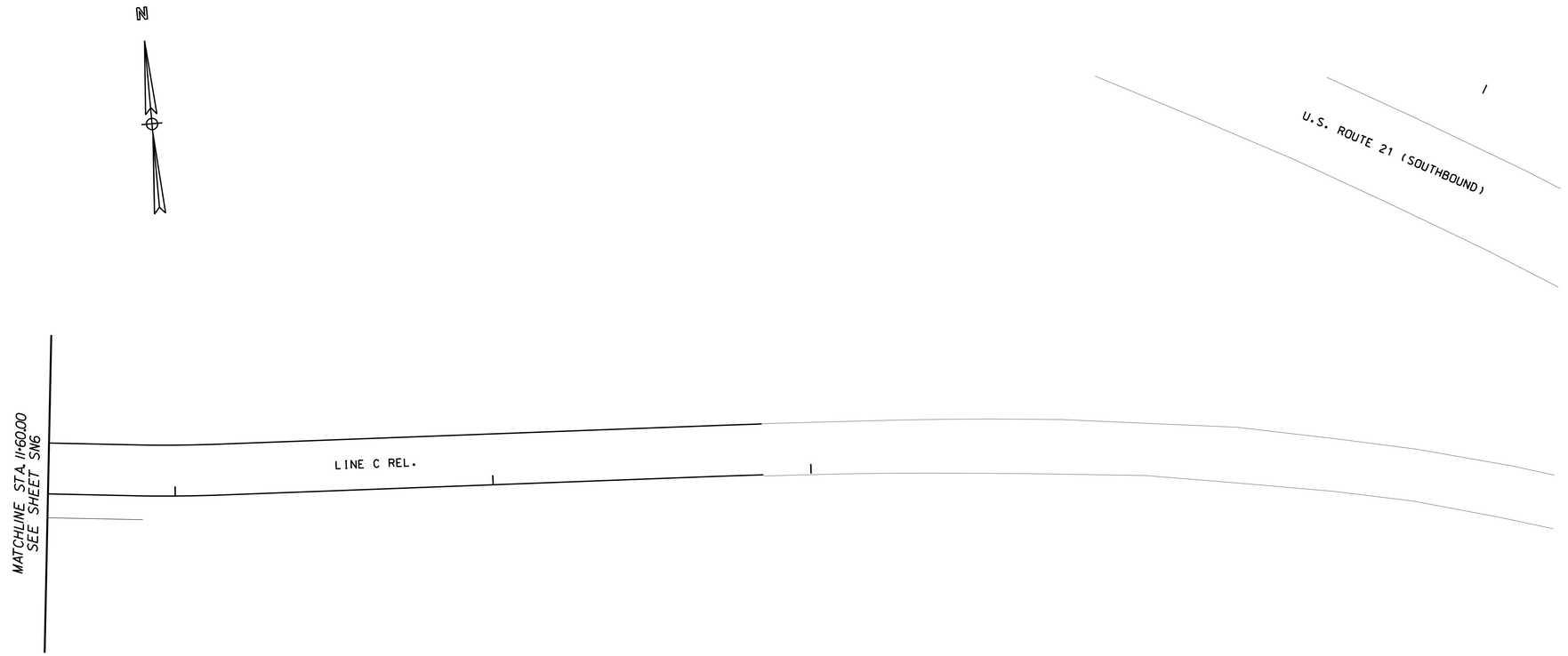
YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT
S-50 (SPRINGDALE RD) AND
US 21(ANDERSON RD)

SIGNING PLAN SHEET

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	SNI2



REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

0 20 40 60 80

SCALE: 1" = 20' HORIZ

9/23/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

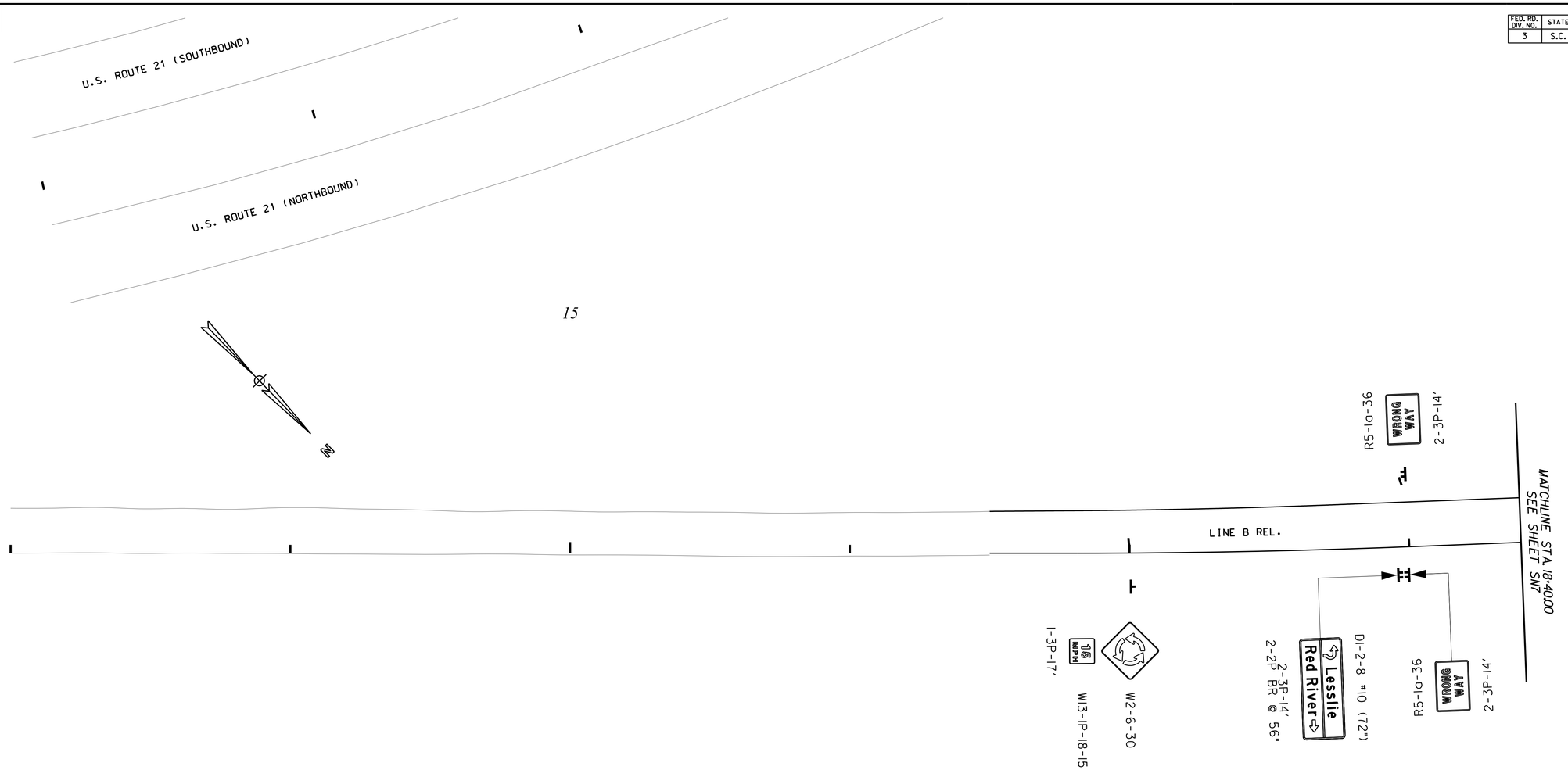
YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

SIGNING PLAN SHEET

Docusign Envelope ID: C7599CB4-3928-45A8-8594-6E858C057F6A

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	S-50	SN13



REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

DRAWN BY : R.L.D.
DATE : 07/12/23

REVIEWED BY : B.G.N.
DATE : 08/16/23

APPROVED BY : R.L.D.
DATE : 09/14/23

CHA

0 20 40 60 80

SCALE: 1" = 20' HORIZ

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION CHA, Inc. No. 4478

9/23/2025

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

YORK COUNTY PROJECT

INTERCHANGE IMPROVEMENT AT S-50 (SPRINGDALE RD) AND US 21(ANDERSON RD)

SIGNING PLAN SHEET

South Carolina Department of Transportation

EROSION CONTROL DATA SHEET - C&G (REFER TO SHEETS EC3, EC5, EC7, EC9, EC11, EC13, EC15, EC17, EC19, EC21)

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE/ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC1

RECEIVING WATERS

ROAD / ROUTE	OUTFALL DITCH		NAME OF RECEIVING WATERS	NAME OF ULTIMATE RECEIVING WATERS
	STATION	SIDE		
US 21	144+55	LT	UNNAMED TRIB	CATAWBA RIVER
S-46-143	14+88	RT	UNNAMED TRIB	CATAWBA RIVER
S-46-143	18+12	RT	UNNAMED TRIB	CATAWBA RIVER
S-46-143	19+67	LT	UNNAMED TRIB	CATAWBA RIVER
S-46-143	23+50	RT	UNNAMED TRIB	CATAWBA RIVER
S-46-143	23+50	LT	UNNAMED TRIB	CATAWBA RIVER
S-46-50	147+07	RT	UNNAMED TRIB	CATAWBA RIVER

SOIL TYPES

ROAD / ROUTE	STATION TO STATION		SOIL PARTICLE SIZE (COARSE / FINE)	ZONE
US 21	122+00	138+80	Fine	Piedmont
US 21	138+80	145+00	Fine	Piedmont
S-50	126+00	149+00	Fine	Piedmont
S-143	10+00	25+08	Fine	Piedmont

TEMPORARY EROSION CONTROL BLANKET

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF BLANKET (FT)	DITCH BOTTOM WIDTH (FT)	SLOPES x : 1		MSY
						FRONT	BACK	
							TOTAL	

TURF REINFORCED MATTING (TRM)

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF MAT (FT)	SLOPES (x : 1)		DITCH BOTTOM WIDTH (FT)	TYPE	TYPE 1 (MSY)	TYPE 2 (MSY)	TYPE 3 (MSY)
					FRONT	BACK					

South Carolina Department of Transportation

EROSION CONTROL DATA SHEET - FINAL (REFER TO SHEETS EC4, EC6, EC8, EC10, EC12, EC14, EC16, EC18, EC20, EC22)

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE/ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC2

RECEIVING WATERS

ROAD / ROUTE	OUTFALL DITCH		NAME OF RECEIVING WATERS	NAME OF ULTIMATE RECEIVING WATERS
	STATION	SIDE		
US 21	144+55	LT	UNNAMED TRIB	CATAWBA RIVER
S-46-143	14+88	RT	UNNAMED TRIB	CATAWBA RIVER
S-46-143	18+12	RT	UNNAMED TRIB	CATAWBA RIVER
S-46-143	19+67	LT	UNNAMED TRIB	CATAWBA RIVER
S-46-143	23+50	RT	UNNAMED TRIB	CATAWBA RIVER
S-46-143	23+50	LT	UNNAMED TRIB	CATAWBA RIVER
S-46-50	147+07	RT	UNNAMED TRIB	CATAWBA RIVER

SOIL TYPES

ROAD / ROUTE	STATION TO STATION		SOIL PARTICLE SIZE (COARSE / FINE)	ZONE
US 21	122+00	138+80	Fine	Piedmont
US 21	138+80	145+00	Fine	Piedmont
S-50	126+00	149+00	Fine	Piedmont
S-143	10+00	25+08	Fine	Piedmont

TEMPORARY EROSION CONTROL BLANKET

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF BLANKET (FT)	DITCH BOTTOM WIDTH (FT)	SLOPES x : 1		MSY
						FRONT	BACK	
LINE_A_REL	13+50	15+50	RT	2	0	6	2.0	0.370
LINE_A_REL	19+50	20+00	RT	2	0	4	2.0	0.071
LINE_A_REL	20+00	20+50	RT	2	0	5	2.0	0.082
LINE_A_REL	20+50	21+67	RT	2	0	6	2.0	0.216
LINE_A_REL	18+00	18+50	LT	2	0	6	2.0	0.092
LINE_A_REL	18+50	19+00	LT	2	0	5	2.0	0.082
LINE_A_REL	19+00	19+50	LT	2	0	4	2.0	0.071
COUNTY_RD	52+00	53+92	LT	1	0	6	6.0	0.260
LINE_D_REL	131+00	132+50	RT	1	0	6	2.0	0.139
LINE_D_REL	132+50	133+00	RT	1.3	0	5	2.0	0.053
LINE_D_REL	133+00	133+50	RT	2	0	4	2.0	0.071
LINE_D_REL	135+50	136+00	RT	1	0	6	2.0	0.046
LINE_D_REL	131+50	133+00	LT	1	0	4	6.0	0.170
LINE_D_REL	133+50	134+50	LT	1	0	6	2.0	0.092
LINE_D_REL	134+50	136+00	LT	1	0	4	2.0	0.106
							TOTAL	1.919

TURF REINFORCED MATTING (TRM)

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF MAT (FT)	SLOPES (x : 1)		DITCH BOTTOM WIDTH (FT)	TYPE	TYPE 1 (MSY)	TYPE 2 (MSY)	TYPE 3 (MSY)
					FRONT	BACK					
LINE_D_REL	135+00	135+50	RT	2	5	2	0	1	0.082		
								TOTALS	0.082		

ROCK DITCH CHECK IN DITCHES

ROAD / ROUTE	STATION TO STATION		SIDE	AVERAGE LENGTH	SPACING (FT)	TOTAL	COMMENTS
S50REL	129+00	130+00	RT	8	50	2	
S50REL	130+00	130+20	RT	10	50	1	
S50REL	130+00	130+50	LT	8	25	1	
S50REL	131+50	132+50	LT	14	25	4	
RD143	20+00	21+00	LT	8	50	1	
RD143	18+00	19+00	LT	8	25	3	Both; from C&G
RD143	16+50	18+00	LT	8	65	2	Both; from C&G
COUNTY_RD	52+00	53+92	LT	12	40	4	
LINE_D_REL	131+00	133+00	RT	8	85	2	
LINE_D_REL	133+00	133+50	RT	13	50	1	
LINE_D_REL	131+50	133+00	LT	9	20	7	
LINE_D_REL	133+00	133+50	LT	10	110	1	
LINE_D_REL	133+00	134+00	LT	16	145	1	
LINE_D_REL	133+50	135+00	LT	6	45	3	
LINE_D_REL	135+00	136+00	LT	12	35	2	
LINE_D_REL	135+50	136+00	RT	8	25	2	
LINE_D_REL	135+00	135+50	RT	7	25	1	
LINE_D_REL	133+50	135+00	RT	11	20	7	
LINEC_REL	16+06	16+81	RT	10	20	3	
LINEC_REL	16+81	23+26	RT	10	85	1	
US21	140+26	141+26	RT	10	25	3	
US21	141+26	143+84	RT	10	10	23	
US21	138+70	144+12	LT	24	140	4	
LINE_B_REL	11+82	10+00	RT	7	80	3	Both; from C&G
LINE_B_REL	15+72	11+82	RT	7	85	4	Both; from C&G
LINE_A_REL	13+50	16+00	RT	17	75	3	
LINE_A_REL	16+00	17+00	RT	20	35	3	
LINE_A_REL	17+00	19+50	RT	20	25	10	
LINE_A_REL	19+50	21+50	RT	16	140	1	
LINE_A_REL	21+50	21+67	RT	7	15	1	
LINE_A_REL	18+00	19+50	LT	10	20	7	
US21	135+53	136+97	LT	11	80	2	
US21	144+51	145+47	LT	8	80	1	
RD143	20+50	21+00	RT	6	80	1	
					TOTAL	115	

SEDIMENT DAM

NO	ROAD / ROUTE	STATION	SIDE	DRAINED OR NOT DRAINED	LENGTH OF SILT BASIN	WIDTH OF SILT BASIN	DAM HEIGHT	SIDE SLOPE OF SILT BASIN	SPILLWAY BOTTOM WIDTH	DAM BOTTOM WIDTH	RIP RAP CLASS	TOTAL STORAGE VOLUME	SEDIMENT STORAGE HEIGHT	OUTFALL CHANNEL WIDTH	OUTFALL CHANNEL DEPTH	OUTFALL CHANNEL LENGTH

2/11/2025
c:\dms\pwise\shannon.emrich\d0182200\[25190378 6 ECDS.xlsx]ECDS SHEET 2

KCI TECHNOLOGIES, INC. No. C0065
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA PROFESSIONAL ENGINEER No. 33847
LEAH M YOUNG
Leah Young

South Carolina Department of Transportation

EROSION CONTROL DATA SHEET - FINAL (REFER TO SHEETS EC4, EC6, EC8, EC10, EC12, EC14, EC16, EC18, EC20, EC22)

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE/ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC2.1

RECEIVING WATERS

ROAD / ROUTE	OUTFALL DITCH		NAME OF RECEIVING WATERS	NAME OF ULTIMATE RECEIVING WATERS
	STATION	SIDE		

SOIL TYPES

ROAD / ROUTE	STATION TO STATION		SOIL PARTICLE SIZE (COARSE / FINE)	ZONE

TEMPORARY EROSION CONTROL BLANKET

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF BLANKET (FT)	DITCH BOTTOM WIDTH (FT)	SLOPES x : 1		MSY
						FRONT	BACK	
LINE_D_REL	133+00	133+67	LT	2.4	0	2	6.0	0.149
S50REL	129+00	130+00	RT	1	0	5	2.0	0.082
S50REL	130+00	130+20	RT	1	0	4	2.0	0.014
S50REL	130+00	130+50	LT	1	0	6	2.0	0.046
S50REL	131+50	132+50	LT	1	0	6	2.0	0.092
S50REL	144+50	144+83	LT	1	0	6	2.0	0.031
RD143	16+50	17+00	LT	1	0	3	3.0	0.035
RD143	17+00	17+50	LT	1.58	0	3	2.0	0.047
RD143	17+50	18+50	LT	1.88	0	2	2.0	0.093
RD143	18+50	19+00	LT	1.88	0	3	2.0	0.056
RD143	20+00	20+50	LT	1	0	4	2.0	0.035
RD143	20+50	21+00	LT	1	0	6	2.0	0.046
RD143	20+50	21+00	RT	3.62	0	4	2.0	0.128
LINE_B_REL	09+00	12+60	RT	2	0	2	2.0	0.358
US21	138+70	144+12	LT	2	0	4	3.0	0.877
							TOTAL	**2.090**

TURF REINFORCED MATTING (TRM)

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF MAT (FT)	SLOPES (x : 1)		DITCH BOTTOM WIDTH (FT)	TYPE	TYPE 1 (MSY)	TYPE 2 (MSY)	TYPE 3 (MSY)
					FRONT	BACK					
								TOTALS			
								TOTALS			

ROCK DITCH CHECK IN DITCHES

ROAD / ROUTE	STATION TO STATION		SIDE	AVERAGE LENGTH	SPACING (FT)	TOTAL	COMMENTS

South Carolina Department of Transportation

EROSION CONTROL DATA SHEET - FINAL (REFER TO SHEETS EC4, EC6, EC8, EC10, EC12, EC14, EC16, EC18, EC20, EC22)

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE/ROAD NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC2.2

RECEIVING WATERS

ROAD / ROUTE	OUTFALL DITCH STATION	OUTFALL DITCH SIDE	NAME OF RECEIVING WATERS	NAME OF ULTIMATE RECEIVING WATERS

SOIL TYPES

ROAD / ROUTE	STATION TO STATION		SOIL PARTICLE SIZE (COARSE / FINE)	ZONE

TEMPORARY EROSION CONTROL BLANKET

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF BLANKET (FT)	DITCH BOTTOM WIDTH (FT)	SLOPES x : 1 FRONT	SLOPES x : 1 BACK	MSY
US21	144+51	145+47	LT	1	0	4	4.0	0.088
US21	135+53	136+97	LT	1	0	3	3.0	0.101

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC3

CLEARING & GRUBBING

MATCHLINE STA. 19+80.00 SEE SHEET EC15

ROCK CHECK DAM
ROCK CHECK DAM
ROCK CHECK DAM
ROCK CHECK DAM
ROCK CHECK DAM
ROCK CHECK DAM

PRESENT 33' R/W (DOCK. 46,490 1963)
PRESENT 33' R/W (DOCK. 46,290 1950)
PRESENT R/W (DOCK. 46,290 1950)
PRESENT TRANS. R/W (DOCK. 46,290 1963)
PRESENT 33' R/W (DOCK. 46,290 1950)
PRESENT 33' R/W (DOCK. 46,290 1950)
PRESENT 33' R/W (DOCK. 46,490 1963)
PRESENT R/W (DOCK. 46,290 1950)
PRESENT R/W (DOCK. 46,290 1950)
PRESENT 33' R/W (DOCK. 46,290 1950)

BEGIN C/A LT •07.79
NEW C/A
•67.36 33.00'
•54.69 50.00'
•64.86 33.18'
•78.20 NEW 33.20' 50' R/W
•80.32 33.00'
•08.37 33.00'
•93.01 33.00'
•48.09 33.00'
•60.78 33.00'
•51.96 40.00'
NEW 40' R/W
•32.73 33.00'
BEGIN C/A •31.98

1SFD

18" RCP
12" RCP
12" RCP
DRIM 662.99 (IN 660.42) (OUT 660.38)

MATCHLINE STA. 132+00.00 SEE SHEET EC13

LEGEND

- SILT FENCE
- SEDIMENT TUBE
- TYPE D INLET PROTECTION
- TYPE F INLET PROTECTION
- ROCK DITCH CHECK
- SEDIMENT DAM FOR PIPE INLET

0 20 40 60 80

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 33847 — LEANNE MARIE WOOD

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

EROSION CONTROL PLAN SHEET
S-50 (SPRINGDALE RD)
STA. 128+82.74 TO STA. 132+00.00
S-143 (CATAWBA CHURCH RD)

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\20192519037862\ WorkingIRoadway\DGN\Plan Sheets\EC Sheets\EC3.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC4

FINAL - EC

MATCHLINE STA. 19+80.00 SEE SHEET EC15

MATCHLINE STA. 132+00.00 SEE SHEET EC13

POT = 126+00.00

PRESENT 33' R/W (DOCK. 46,490 1963)

N 31^ 13' 48" E

ROCK DITCH CHECK
SLOPE = 0.9%
SPACING = 80'
FROM 20+50
TO 21+00
TOTAL = 1

ROCK CHECK DAM

LINE W/ ECB
FROM 20+50
TO 21+00

SEDIMENT DAM
FOR PIPE INLET
ROCK HEIGHT = 1.5'
W = 4.0'
LI = 3.5'
L2 = 1.75'

ROCK DITCH CHECK
SLOPE = 1.5%
SPACING = 150'
FROM 20+00
TO 21+00
TOTAL = 1

BEGIN C/A LT
+07.79

NEW
C/A

LINE W/ ECB
FROM 20+00
TO 21+00

+67.36
33.00'

+54.69
50.00'

+64.86
33.18'

+78.20 NEW
33.20' 50' R/W

PRESENT
TRANS. R/W
(DOCK. 46,290
1963)

130

ROCK DITCH CHECK
SLOPE = 3.9%
SPACING = 25'
FROM 130+00
TO 130+50
TOTAL = 1

LINE W/ ECB
FROM 130+00
TO 130+50

+80.32
33.00'

+08.37
33.00'

PRESENT R/W
(DOCK. 46,290 1950)

SFD

LINE W/ ECB
FROM 131+50
TO 132+50

ROCK DITCH CHECK
SLOPE = 4.0%
SPACING = 25'
FROM 131+50
TO 132+50
TOTAL = 4

FOC

OC

NPDES

F16

F30'

C33'

C35'

C50'

C39'

S 45^ 40' 30" E

PRESENT 33' R/W (DOCK. 46,490 1963)

F21'

C27'

C30'

LINE W/ ECB
FROM 129+00
TO 130+20

+93.01
33.00'

ROCK DITCH CHECK
SLOPE = 1.8%
SPACING = 50'
FROM 129+00
TO 130+00
TOTAL = 2

ROCK DITCH CHECK
SLOPE = 2.4%
SPACING = 50'
FROM 130+00
TO 130+20
TOTAL = 1

C34'

PRESENT R/W
(DOCK. 46,290
(950)

+48.09
33.00'

C30'

SEDIMENT DAM FOR
PIPE INLET
ROCK HEIGHT = 1.5'
W = 7.0'
LI = 3.5'
L2 = 1.75'

PRESENT 33' R/W
(DOCK. 46,290
1950)

C14'

S 40^ 10' 57" E

F33'

F43'

+60.78
33.00'

+51.96
40.00'

NEW 40' R/W

PRESENT
R/W
(DOCK.
46,290
1950)

+32.73
33.00'

BEGIN C/A
+31.98

F20'

PRESENT 33' R/W
(DOCK. 46,290 1950)

1

2

3

7

8

13

20

LEGEND

- SILT FENCE
- SEDIMENT TUBE
- TYPE D INLET PROTECTION
- TYPE F INLET PROTECTION
- ROCK DITCH CHECK
- SEDIMENT DAM FOR PIPE INLET

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

0 20 40 60 80

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 33847
LEA-1-99 YORK

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
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2			
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YORK COUNTY

EROSION CONTROL PLAN SHEET
S-50 (SPRINGDALE RD)
STA. 128+82.74 TO STA. 132+00.00
S-143 (CATAWBA CHURCH RD)

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\EC Sheets\EC4.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC5

CLEARING & GRUBBING

LEGEND

- SILT FENCE
- SEDIMENT TUBE
- TYPE D INLET PROTECTION
- TYPE F INLET PROTECTION
- ROCK DITCH CHECK
- SEDIMENT DAM FOR PIPE INLET

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SOUTH CAROLINA KCI TECHNOLOGIES, INC. No. C00651 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 33847

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
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YORK COUNTY

EROSION CONTROL PLAN SHEET
S-50 REL.
STA. 132+00.00 TO STA. 136+40.00
ROUNDABOUT SOUTH
LINE C REL., LINE D REL.

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\20192519037862\ 2. Working\Roadway\DGN\Plan Sheets\EC5.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC6

FINAL - EC

MATCHLINE STA. 135+20.00 SEE SHEET EC16

NEW C/A

NEW 40' R/W

+42.00
40.00'

S 62° 35' 04" E 622.

ROCK DITCH CHECK
SLOPE = 2.8%
SPACING = 25'
FROM 135+50
TO 136+00
TOTAL = 2

ROCK DITCH CHECK
SLOPE = 3.8%
SPACING = 50'
FROM 135+00
TO 136+00
TOTAL = 2

PRESENT TRANS. R/W (DOCK. 46,490 1963)

LINE W/ ECB FROM 135+50 TO 136+00

RELOC. PC = 135 + 74.75

RELOC. PCC = 12 + 37.81

ROCK DITCH CHECK
SLOPE = 4.0%
SPACING = 25'
FROM 131+50
TO 132+50
TOTAL = 4

WET

NEW TRANS. R/W

C26'

+40.00
17.50'

+65.00
50.00'

NEW TRANS. R/W

RELOC. PC = 132 + 63.41

+67.63
110.00'

135

PRESENT TRANS. R/W (DOCK. 46,290 (1950)

C39'

NEW 50' R/W

C47'

C41'

NPDES

F54'

F30'

RELOC. PRC = 134 + 53.01

F31'

BENT CAP-671.42
BENT CAP-671.73

BENT CAP-668.

BENT CAP-671.08

BENT CAP-672.79

MATCHLINE STA. 136+40.00
SEE SHEET EC8

MATCHLINE STA. 132+00.00
SEE SHEET EC4

FOC

10

N 31° 13' 48" E

S 69° 07' 40" E

HW TOP-673.71
BENT CAP-669.18

F29'

PRESENTDES 33' R/W (DOCK. 46,490 1963)

+45.00
40.00'

F34'

NEW 40' R/W

+62.99
33.00'

RELOC. PCC = 11 + 16.09

RELOC. POT = 132 + 10.97
PC = 132+10.97

RELOC. PC = 10 + 19.53

PRES. TRANS. R/W

+78.56
30.00'

PRESENT 30' R/W (DOCK. 46,490 1963)

NEW TRANS. R/W

+00.00
55.00'

F47'

8

NEW TRANS. R/W

NEW C/A

RELOC. PT = 11 + 43.25

F52'

MATCHLINE STA. 11+60.00
SEE SHEET EC18

RELOC. PC = 10 + 00.00
RELOC. PT = 13 + 45.58

F58'

F38'

F51'

RELOC. PRC = 134 + 94.25

F28'

F26'

PC = 10+61.58

F44'

LEGEND

- SILT FENCE
- SEDIMENT TUBE
- TYPE D INLET PROTECTION
- TYPE F INLET PROTECTION
- ROCK DITCH CHECK
- SEDIMENT DAM FOR PIPE INLET

KCI TECHNOLOGIES
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0 20 40 60 80

KCI TECHNOLOGIES, INC. No. C00651 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 33847 REGISTERED PROFESSIONAL ENGINEER

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
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YORK COUNTY

EROSION CONTROL PLAN SHEET
S-50 REL.
STA. 132+00.00 TO STA. 136+40.00
ROUNDABOUT SOUTH
LINE C REL., LINE D REL.

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/29/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019251903786\2. Working\Roadway\DGN\Plan Sheets\EC Sheets\EC6.dgn

CLEARING & GRUBBING

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC7

LEGEND

- SILT FENCE
- SEDIMENT TUBE
- TYPE D INLET PROTECTION
- TYPE F INLET PROTECTION
- ROCK DITCH CHECK
- SEDIMENT DAM FOR PIPE INLET

MATCHLINE STA. 17+20.00 SEE SHEET EC7

MATCHLINE STA. 136+40.00 SEE SHEET EC5

MATCHLINE LINE A REL STA. 13+60.00 SEE SHEET EC9

MATCHLINE STA. 142+20.00 SEE SHEET EC9

MATCHLINE STA. 18+40.00 SEE SHEET EC9

PRESENT 40' R/W (DOCK. 46,490 1963)

•83.55 40.00'

ROCK DITCH CHECK
SLOPE = 3.5%
SPACING = 20'
FROM 15+50
TO 19+00
TOTAL = 17

ROCK DITCH CHECK
SLOPE = 1.1%
SPACING = 80'
FROM 13+10
TO 15+50
TOTAL = 2

ROCK CHECK DAM

ROCK CHECK DAM

18" RCP

BENT CAP-672.88

BENT CAP-674.15

BENT CAP-674.32

BENT CAP-671.96

IE-671.77

IE-667.96

IE-665.15

674.47

671.85

671.37

PRESENT TRANS. R/W (DOCK. 46,490 1963)

•76.55 40.00'

PRESENT 40' R/W (DOCK. 46,490 1963)

•89.37 50.00'

NEW TRANS. R/W

•33.40 70.00'

•51.75 (S-50 REL.) 58.73'

NEW C/A

•97.62 40.00'

•00.03 (S-50 REL.) 35.54'

•97.21 (S-50) 40.68'

•01.75 33.00'

PRESENT 50' R/W (DOCK. 46,490 1963)

NEW TO R/W

NEW C/A

PRESENT 33' R/W (DOCK. 46,490 1963)

11

9

N

0 20 40 60 80

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SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. CO0651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — LICENSED PROFESSIONAL ENGINEER — No. 33847 — LEAH M. YOUNG

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
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YORK COUNTY

EROSION CONTROL PLAN SHEET
S-50 REL. (SPRINGDALE RD)
STA. 136+40.00 TO STA. 142+20.00
ROUNDABOUT NORTH
LINE A REL, LINE B REL, LINE E REL

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02. Working\Roadway\DGN\Plan Sheets\EC Sheets\EC7.dgn

FINAL - EC

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC8

LEGEND

- SILT FENCE
- SEDIMENT TUBE
- TYPE D INLET PROTECTION
- TYPE F INLET PROTECTION
- ROCK DITCH CHECK
- SEDIMENT DAM FOR PIPE INLET

ROCK DITCH CHECK
SLOPE = 0.69%
SPACING = 80'
FROM 135+53
TO 136+97
TOTAL = 2

LINE W/ ECB
FROM 135+53
TO 136+97

MATCHLINE STA. 136+40.00
SEE SHEET EC6

MATCHLINE STA. 17+20.00
SEE SHEET EC12

RELOC. PCC = 137 + 39.72

RELOC. PRC = 138 + 41.36

PT = 16+90.02

PCC = 16+53.43

ROCK DITCH CHECK
SLOPE = 3.8%
SPACING = 35'
FROM 16+00
TO 17+00
TOTAL = 3

PCC = 15+76.46

LINE W/ ECB FROM
13+50 TO 15+50

ROCK DITCH CHECK
SLOPE = 2.0%
SPACING = 75'
FROM 13+50
TO 16+00
TOTAL = 3

MATCHLINE LINE A REL STA. 13+60.00
SEE SHEET EC10

MATCHLINE STA. 142+20.00
SEE SHEET EC10

MATCHLINE STA. 18+40.00
SEE SHEET EC20

RELOC. PT = 140 + 57.69

PT = 140+15.46

RELOC. PC = 141 + 21.52

RELOC. PT = 19 + 98.40

RELOC. PC = 10 + 00.00

RELOC. PT = 13 + 45.58

RELOC. PC = 19 + 33.40

RELOC. PRC = 142 + 15.07

PRESENT 40' R/W (DOCK. 46.490 1963)

PRESENT TRANS. R/W (DOCK. 46.490 1963)

PRESENT 50' R/W (DOCK. 46.490 1963)

PRESENT 33' R/W (DOCK. 46.490 1963)

NEW TRANS. R/W

NEW 70' R/W

NEW C/A

N 69° 26' 37" W

N 45° 09' 30" W

N 7° 05' 48" E

N 18° 32' 41" E

NPDES

FOC

18" RCP

BENT CAP-672.85

BENT CAP-674.15

BENT CAP-679.74

BENT CAP-675.32

9

10

15

75

140

0 20 40 60 80

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KCI TECHNOLOGIES, INC. No. C00651 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 33847 LICENSED

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
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YORK COUNTY

EROSION CONTROL PLAN SHEET
S-50 REL. (SPRINGDALE RD)
STA. 136+40.00 TO STA. 142+20.00
ROUNDABOUT NORTH
LINE A REL, LINE B REL, LINE E REL

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\EC Sheets\EC8.dgn

CLEARING & GRUBBING

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC9

LEGEND

- SILT FENCE
- SEDIMENT TUBE
- TYPE D INLET PROTECTION
- TYPE F INLET PROTECTION
- ROCK DITCH CHECK
- SEDIMENT DAM FOR PIPE INLET

PRESENT 40' R/W (DOCK. 46,490 1963)

•51.84 40.00'

MATCHLINE LINE A REL. STA. 13+60.00 SEE SHEET EC7

ROCK DITCH CHECK
SLOPE = 11%
SPACING = 80'
FROM 142+00
TO 144+50
TOTAL = 3

PRESENT TRANS. R/W (DOCK. 46,490 1963)

MATCHLINE STA. 142+20.00 SEE SHEET EC7

•98.93 (S-50 REL.) 44.96'
•97.21 (S-50) 46.80'

NEW C/A

PROPERTY LINE = NEW R/W

•82.61 (S-50 REL.) 46.76'
•80.00 (S-50) 46.76'

END C/A RT •82.61

•28.11 41.26'

PRESENT 33' R/W (DOCK. 46,490 1963)

PRESENT TRANS. R/W (DOCK. 46,490 1963)

CB RIM=671.14 W=5-42.10 IE OUT=665.49

•56.39 46.29'

•80.32 69.72'

18" RCP

N

0 20 40 60 80

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SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 33847 — LEAH M. YOUNG

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY

EROSION CONTROL PLAN SHEET
REL. S-50 (SPRINGDALE RD)
STA. 142+20.00 TO STA. 144+82.61
REL. LINE A

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\EC Sheets\EC9.dgn

FINAL - EC

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC10

LEGEND

- SILT FENCE
- SEDIMENT TUBE
- TYPE D INLET PROTECTION
- TYPE F INLET PROTECTION
- ROCK DITCH CHECK
- SEDIMENT DAM FOR PIPE INLET

N

PRESENT 40' R/W (DOCK.46,490 1963)

•51.84 40.00'

PC = 13+09.16

MATCHLINE LINE A REL.STA.13+60.00 SEE SHEET EC8

C39'

NPDES

PC = 12+64.85

F40'

F41'

F38'

C39'

PRESENT TRANS. R/W (DOCK.46,490 1963)

LINE W/ ECB FROM 144•50 TO 144•83 C51'

145

POT = 10+00.00

S 12° 28' 19" W

MATCHLINE STA. 142+20.00 SEE SHEET EC8

NPDES

F36'

F32'

F42'

F42'

F41'

C47'

•98.93 (S-50 REL.) 44.96'

•97.21 (S-50) 46.80'

NEW C/A

PROPERTY LINE • NEW R/W

•82.61 (S-50 REL.) 46.76'

•80.00 (S-50) 46.76'

END C/A RT •82.61

PC = 142+25.96

RELOC. PT = 144 + 82.61

•28.11 47.26'

PRESENT 33' R/W (DOCK.46,490 1963)

PRESENT TRANS. R/W (DOCK.46,490 1963)

N 15° 43' 36" E

CB (RM-6)71.26 WB(RT)71.26 EOUT 166.49

01

•56.39 46.29'

PT = 147+20.23

•80.32 69.72'

18" RCP

9

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0 20 40 60 80

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — LICENSED PROFESSIONAL ENGINEER — No. 33847 — Allison Young

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY

EROSION CONTROL PLAN SHEET
REL. S-50 (SPRINGDALE RD)
STA. 142+20.00 TO STA. 144+82.61
REL. LINE A

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378612. Working\Roadway\DGN\Plan Sheets\EC Sheets\EC10.dgn

CLEARING & GRUBBING

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC11

PRESENT 60' R/W (DOCK. 46.490 1963)

SEDIMENT DAM FOR PIPE INLET
ROCK HEIGHT = 1.5'
W = 14.0'
L1 = 3.5'
L2 = 1.75'

30

N 83.55
60.00

PRESENT TRANS. R/W (DOCK. 46.490 1963)

ROCK DITCH CHECK
SLOPE = 3.5%
SPACING = 20'
FROM 15+50
TO 19+00
TOTAL = 17

11

18" RCP

STRUCTURE NOT FOUND

MATCHLINE STA. 17+20.00
SEE SHEET EC7

ROCK DITCH CHECK
SLOPE = 11%
SPACING = 80'
FROM 17+00
TO 20+00
TOTAL = 4

ROCK DITCH CHECK
SLOPE = 5.0%
SPACING = 40'
FROM 135+36
TO 135+36
TOTAL = 1

LEGEND

- SILT FENCE
- SEDIMENT TUBE
- TYPE D INLET PROTECTION
- TYPE F INLET PROTECTION
- ROCK DITCH CHECK
- SEDIMENT DAM FOR PIPE INLET

KCI TECHNOLOGIES
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0 20 40 60 80

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 33847 — LEAH M. YOUNG

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
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YORK COUNTY

EROSION CONTROL PLAN SHEET
LINE A REL.
STA. 17+20.00 TO STA. 21+73.50

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/23/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\EC Sheets\EC11.dgn

FINAL - EC

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC12

ROCK DITCH CHECK
SLOPE = 0.3%
SPACING = 140'
FROM 19+50
TO 21+50
TOTAL = 2

PT = 21+73.50

PRESENT 60' R/W (DOCK. 46.490 1963)

C34'

C40'

C48'

C59'

C66'

30

SEDIMENT DAM FOR PIPE INLET
ROCK HEIGHT = 2.5'
W = 10.5'
L1 = 4.5'
L2 = 2.25'

11

C72'

83.55
60.00

PRESENT TRANS. R/W (DOCK. 46.490 1963)

C65'

C65'

LINE W/ ECB FROM 19+50 TO 21+67

ROCK DITCH CHECK
SLOPE = 5.5%
SPACING = 25'
FROM 17+00
TO 19+50
TOTAL = 10

C62'

C55'

10GN

F8'

8GN

F17'

6GN

F25'

NPDES

STRUCTURE NOT FOUND

NPDES

NPDES

NPDES

NPDES

NPDES

NPDES

NPDES

NPDES

NPDES

F30'

C36'

C38'

C38'

C37'

20

20

135

LINE W/ ECB FROM 18+00 TO 19+50

ROCK DITCH CHECK
SLOPE = 5.0%
SPACING = 20'
FROM 18+00
TO 19+50
TOTAL = 7

ROCK DITCH CHECK
SLOPE = 0.69%
SPACING = 80'
FROM 135+53
TO 136+97
TOTAL = 2

ROCK DITCH CHECK
SLOPE = 5.0%
SPACING = 40'
FROM 135+36
TO 135+36
TOTAL = 1

MATCHLINE STA. 17+20.00
SEE SHEET EC8

N

LEGEND
- SILT FENCE
- SEDIMENT TUBE
- TYPE D INLET PROTECTION
- TYPE F INLET PROTECTION
- ROCK DITCH CHECK
- SEDIMENT DAM FOR PIPE INLET

0 20 40 60 80

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 33847 — LEANNE MARIE LUCIUS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY

EROSION CONTROL PLAN SHEET
LINE A REL.
STA. 17+20.00 TO STA. 21+73.50

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/23/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\EC Sheets\EC12.dgn

CLEARING & GRUBBING

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC13

N

PRESENT 60' R/W (DOCK. 46.490 1963)

PRESENT 60' R/W (DOCK. 46.490 1963)

+00.00 60.00'

+00.00 100.00'

(DOCK. 46.490 1963)

SEDIMENT DAM FOR PIPE INLET
ROCK HEIGHT = 2.0'
W = 12.0'
LI = 4.0'
L2 = 2.0'

18" RCP

CB TOP=661.74
IE(OUT)=654.86

MATCHLINE STA.130+00.00
SEE SHEET EC15

PRESENT R/W (DOCK. 46.490 1963)

+77.78 45.16'

+77.78 50.00'

NEW TRANS. R/W

+80.84 (LINE D REL. B) 25.00'

+83.77 (LINE D REL. B) 55.00'

NEW 25' R/W

PRESENT 33' R/W (DOCK. 46.290 1950)

+64.90 (LINE D REL. B) 55.00'

CB RIM=660.75
IN(N)=655.40
IN(E)=654.61

+05.79 33.00'

PROPERTY LINE = NEW R/W

+91.20 50.00'

+37.57 145.74'

+49.16 150.00'

+80.68 150.00'

NEW 150' R/W

IE=650.44

MATCHLINE STA.53+40.00
SEE SHEET EC15

1SFD

PROPERTIES 16 & 17 - SAME OWNER

16 17 18 19 20 21

LEGEND

- SILT FENCE
- SEDIMENT TUBE
- TYPE D INLET PROTECTION
- TYPE F INLET PROTECTION
- ROCK DITCH CHECK
- SEDIMENT DAM FOR PIPE INLET

KCI TECHNOLOGIES
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0 20 40 60 80

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 33847 — LEANNE YOUNG

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

EROSION CONTROL PLAN SHEET
LINE D REL.
STA. 126+00.00 TO STA. 130+00.00
S-143 (CATAWBA CHURCH RD)
US 21, COUNTY RD

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\2519037862\.WorkingRoadway\DGN\Plan Sheets\EC Sheets\EC13.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC14

FINAL - EC

N

125

PRESENT 60' R/W (DOCK. 46.490 1963)

PRESENT 60' R/W (DOCK. 46.490 1963)

•00.00 60.00'

•00.00 100.00'

PRESENT 100' R/W (DOCK. 46.490 1963)

SEDIMENT DAM FOR PIPE INLET
ROCK HEIGHT = 2.0'
W = 12.0'
LI = 4.0'
L2 = 2.0'

130

10

S 89^ 25' 23" E

FOC

PRESENT R/W (DOCK. 46.490 1963)

•77.78 45.16'

•77.78 50.00'

NEW TRANS. R/W F21'

F21'

50

S 83^ 51' 53" E

S 68^ 03' 07" E

RELOC. PRC = 53 + 31.55

MATCHLINE STA. 130+00.00 SEE SHEET EC16

15

NPDES

F19'

F20'

F23'

NEW 25' R/W

F16'

PRESENT 33' R/W (DOCK. 46.290 1950)

PT = 13+44.35

RELOC. PCC = 51 + 65.67

RELOC. PC = 51 + 41.45

PC = 10+00.00

•80.84 (LINE D REL. B) 25.00'

RELOC. POT = 50 + 00.00

•83.77 (LINE D REL. B) 55.00'

•64.90 (LINE D REL. B) 55.00'

•05.79 33.00'

PROPERTY LINE - NEW R/W

PC = 14+44.76

RELOC. PRC = 52 + 83.87

•37.57 145.74'

•91.20 50.00'

•49.16 150.00'

•80.68 150.00'

NEW 150' R/W

1SFD

LEGEND

- SILT FENCE
- SEDIMENT TUBE
- TYPE D INLET PROTECTION
- TYPE F INLET PROTECTION
- ROCK DITCH CHECK
- SEDIMENT DAM FOR PIPE INLET

16 PROPERTIES 16 & 17 = SAME OWNER 17 18 19 20 21

KCI TECHNOLOGIES
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SOUTH CAROLINA KCI TECHNOLOGIES, INC. No. C00651 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 33847 LEAH M. YOUNG

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
1			

YORK COUNTY

EROSION CONTROL PLAN SHEET
LINE D REL.
STA. 126+00.00 TO STA. 130+00.00
S-143 (CATAWBA CHURCH RD)
US 21, COUNTY RD

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\EC Sheets\EC14.dgn

CLEARING & GRUBBING

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC15

PRESENT 60' R/W (DOCK. 46,490 1963)

•91.81 123.86'

•96.77 100.00'

PRESENT 100' R/W (DOCK. 46,490 1963)

N

PRESENT TRANS. R/W (DOCK. 46,490 1963)

•94.49 100.00'

12

MATCHLINE STA. 135+20.00 SEE SHEET EC5

NEW 40' R/W

•23.66 40.00'

NEW C/A

PROPERTY LINE = NEW R/W

PRESENT 100' R/W (DOCK. 46,490 1963)

12

13

•28.46 100.00'

PRESENT TRANS. R/W (DOCK. 46,490 1963)

END C/A LT •34.49

•39.30 33.00'

NEW C/A

MATCHLINE STA. 130+00.00 SEE SHEET EC13

MATCHLINE STA. 53+40.00 SEE SHEET EC13

PRESENT 33' R/W (DOCK. 46,290 1950)

PRESENT 33' R/W (DOCK. 46,290 1950)

15" RCP

18" RCP

•60.68 33.00'

23

•59.69 45.00'

NEW 45' R/W

•90.00 33.00'

•90.00 45.00'

PRESENT 33' R/W (DOCK. 46,290 1950)

MATCHLINE STA. 19+80.00 SEE SHEET EC3

21

22

24

25

LEGEND

- SILT FENCE
- SEDIMENT TUBE
- TYPE D INLET PROTECTION
- TYPE F INLET PROTECTION
- ROCK DITCH CHECK
- SEDIMENT DAM FOR PIPE INLET

KCI TECHNOLOGIES
ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

0 20 40 60 80

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 33847 — LICENSED — Allen Yoder

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
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YORK COUNTY

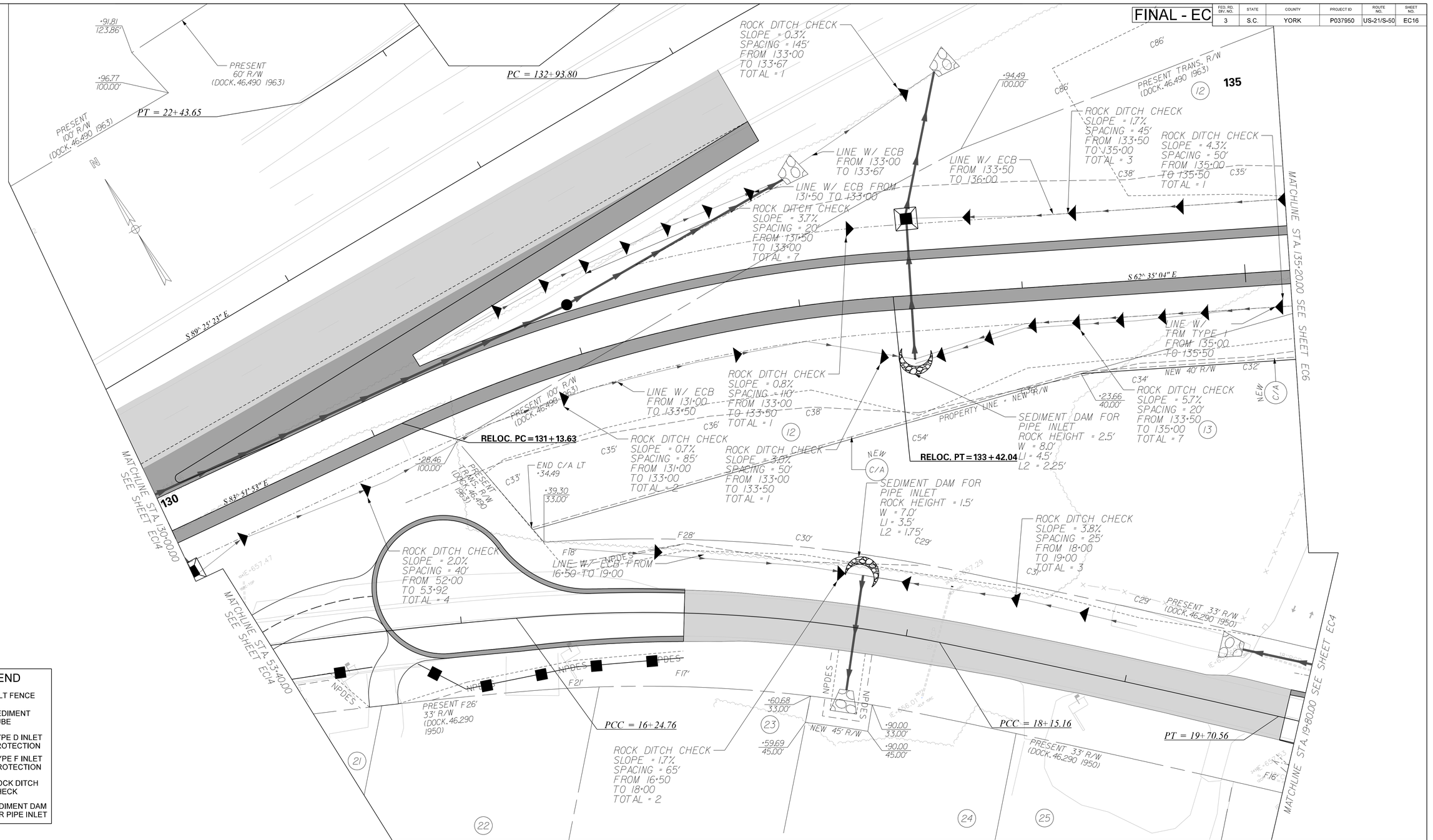
EROSION CONTROL PLAN SHEET
LINE D REL.
STA. 130+00.00 TO STA. 135+20.00
S-143 (CATAWBA CHURCH RD)
US 21, COUNTY RD

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02. Working\Roadway\DGN\Plan Sheets\EC 15.dgn

FINAL - EC

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC16



LEGEND

- SILT FENCE
- SEDIMENT TUBE
- TYPE D INLET PROTECTION
- TYPE F INLET PROTECTION
- ROCK DITCH CHECK
- SEDIMENT DAM FOR PIPE INLET

KCI TECHNOLOGIES
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0 20 40 60 80

KCI TECHNOLOGIES, INC. No. C00651 CERTIFICATE OF AUTHORIZATION — SOUTH CAROLINA

LICENSED PROFESSIONAL ENGINEER No. 33847 — SOUTH CAROLINA — Anthony Young

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
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YORK COUNTY

EROSION CONTROL PLAN SHEET
LINE D REL.
STA. 130+00.00 TO STA. 135+20.00
S-143 (CATAWBA CHURCH RD)
US 21, COUNTY RD

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
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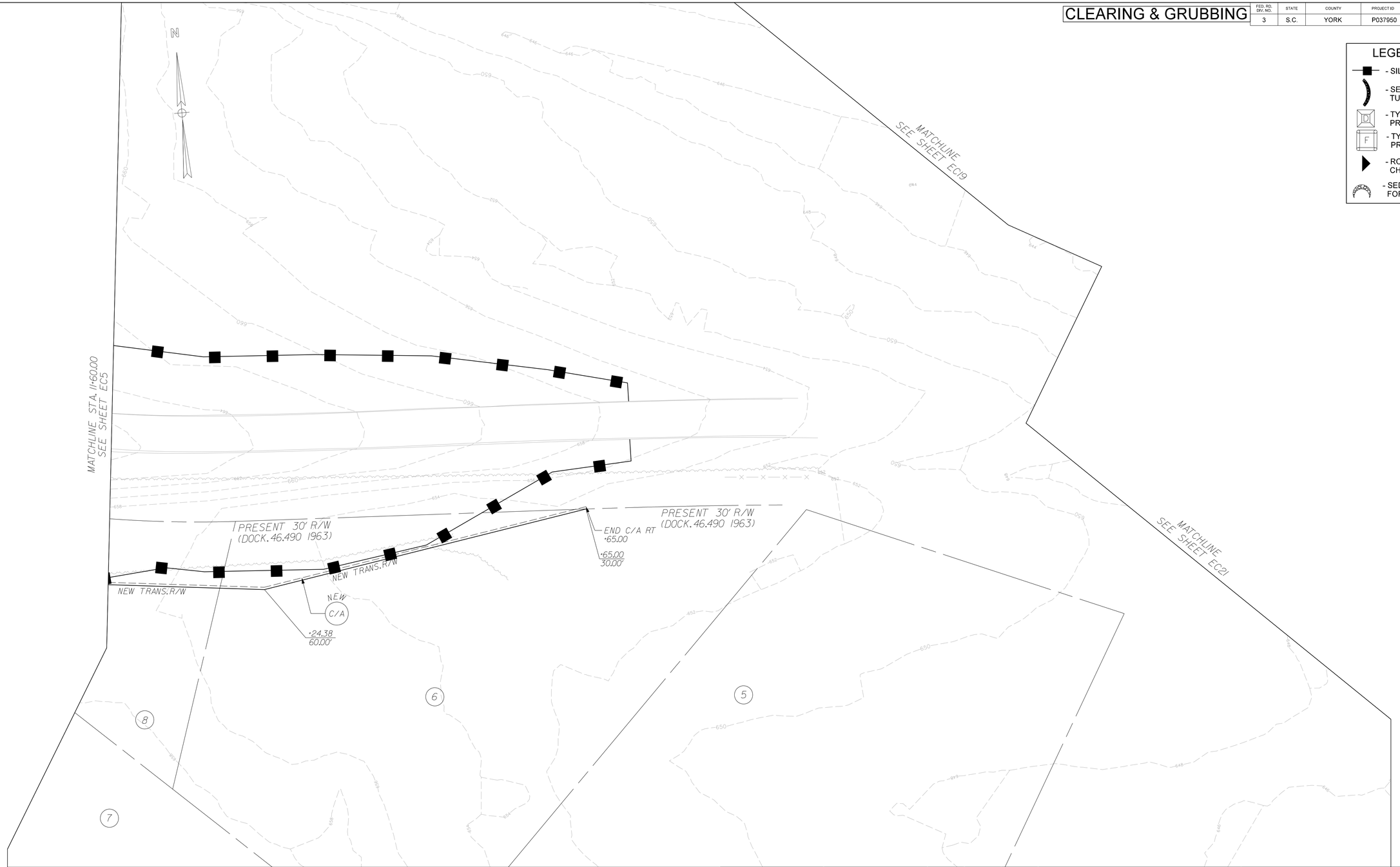
CLEARING & GRUBBING

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC17



LEGEND

- SILT FENCE
- SEDIMENT TUBE
- TYPE D INLET PROTECTION
- TYPE F INLET PROTECTION
- ROCK DITCH CHECK
- SEDIMENT DAM FOR PIPE INLET

KCI TECHNOLOGIES
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0 20 40 60 80

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. CO0651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — LICENSED PROFESSIONAL ENGINEER — No. 33847 — LEA ANN YOUNG

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
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YORK COUNTY

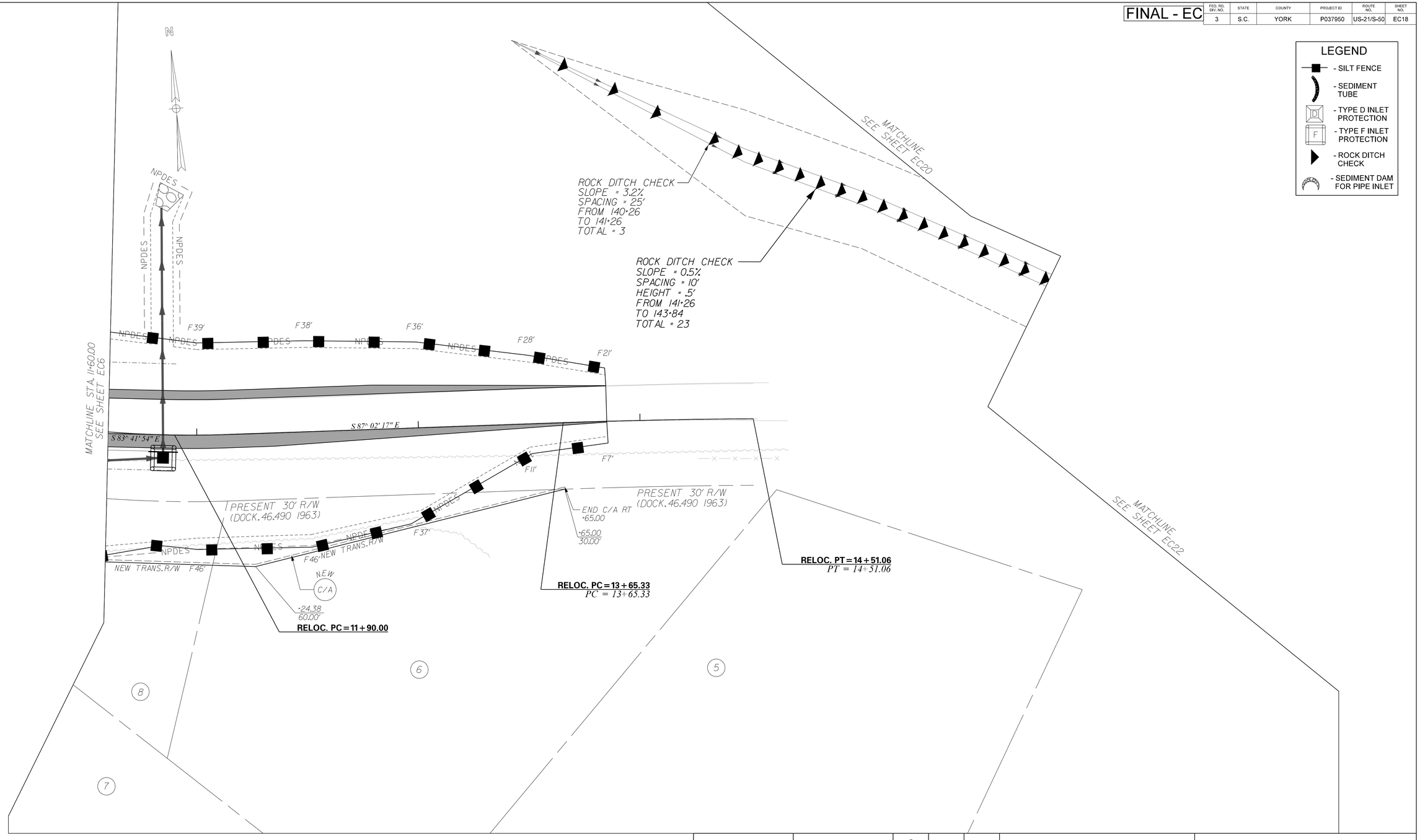
EROSION CONTROL PLAN SHEET
LINE C REL.
STA. 11+60.00 - 13+85.00

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02. Working\Roadway\DGN\Plan Sheets\EC Sheets\EC17.dgn

FINAL - EC

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC18



LEGEND

- SILT FENCE
- SEDIMENT TUBE
- TYPE D INLET PROTECTION
- TYPE F INLET PROTECTION
- ROCK DITCH CHECK
- SEDIMENT DAM FOR PIPE INLET

KCI TECHNOLOGIES
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0 20 40 60 80

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. — No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — LICENSED PROFESSIONAL ENGINEER — No. 33847 — LEANN YOUNG

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
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YORK COUNTY

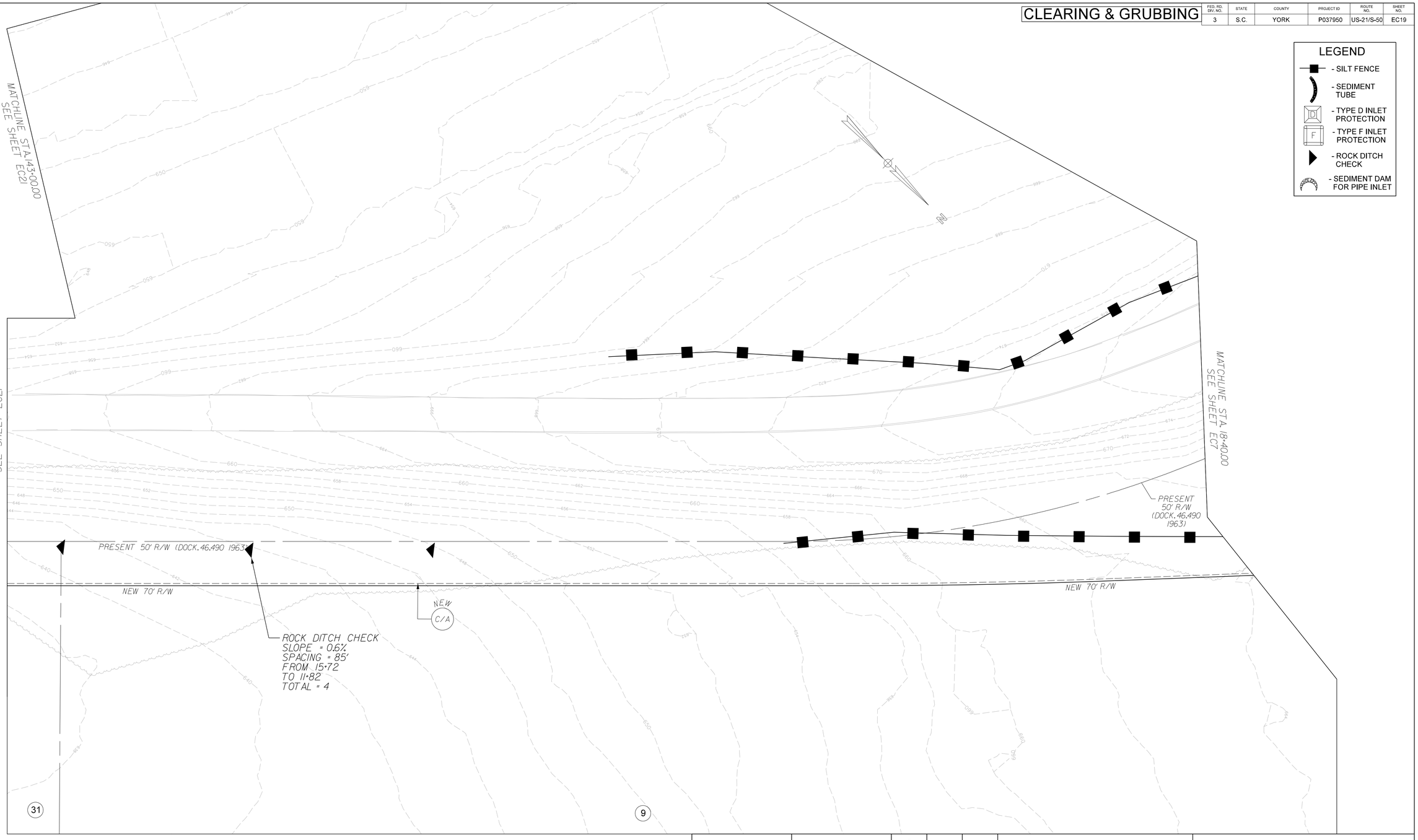
EROSION CONTROL PLAN SHEET
LINE C REL.
STA. 11+60.00 - 13+85.00

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02. Working\Roadway\DGN\Plan Sheets\EC Sheets\EC18.dgn

CLEARING & GRUBBING

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC19



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0 20 40 60 80

SOUTH CAROLINA KCI TECHNOLOGIES, INC. No. C00651 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 33847 LICENSED Allen Yoder

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
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YORK COUNTY

EROSION CONTROL PLAN SHEET
LINE B REL.
STA. 16+50.00 TO STA. 18+40.00

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\EC Sheets\EC19.dgn

FINAL - EC

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC20

LEGEND

- SILT FENCE
- SEDIMENT TUBE
- TYPE D INLET PROTECTION
- TYPE F INLET PROTECTION
- ROCK DITCH CHECK
- SEDIMENT DAM FOR PIPE INLET

MATCHLINE STA.143+00.00
SEE SHEET EC22

MATCHLINE STA.13+00.00
SEE SHEET EC22

MATCHLINE STA.18+40.00
SEE SHEET EC8

15

PT = 18+31.66

ROCK DITCH CHECK
SLOPE = 0.5%
SPACING = 140'
FROM 138+70
TO 144+12
TOTAL = 4

LINE W/ ECB
FROM 138+70
TO 144+12

C52' NPDES
F32' NPDES
F32' NPDES
F26' NPDES

N 45° 56' 54" W

N 45° 36' 54" W

N 48° 09' 30" W

PRESENT 50' R/W (DOCK.46.490 1963)

F48' NPDES
F43' NPDES
F45' NPDES
F47' NPDI
NPDES

NEW 70' R/W

NEW C/A

RELOC. PC = 16+81.41

PC = 16+54.18

RELOC. PT = 17+97.12

ROCK DITCH CHECK
SLOPE = 0.6%
SPACING = 85'
FROM 15+72
TO 11+82
TOTAL = 4

LINE W/ ECB
FROM 9+00
TO 12+60

31

9

KCI TECHNOLOGIES
ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

0 20 40 60 80

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 33847
Allen Yoder

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
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YORK COUNTY

EROSION CONTROL PLAN SHEET
LINE B REL.
STA. 16+50.00 TO STA. 18+40.00

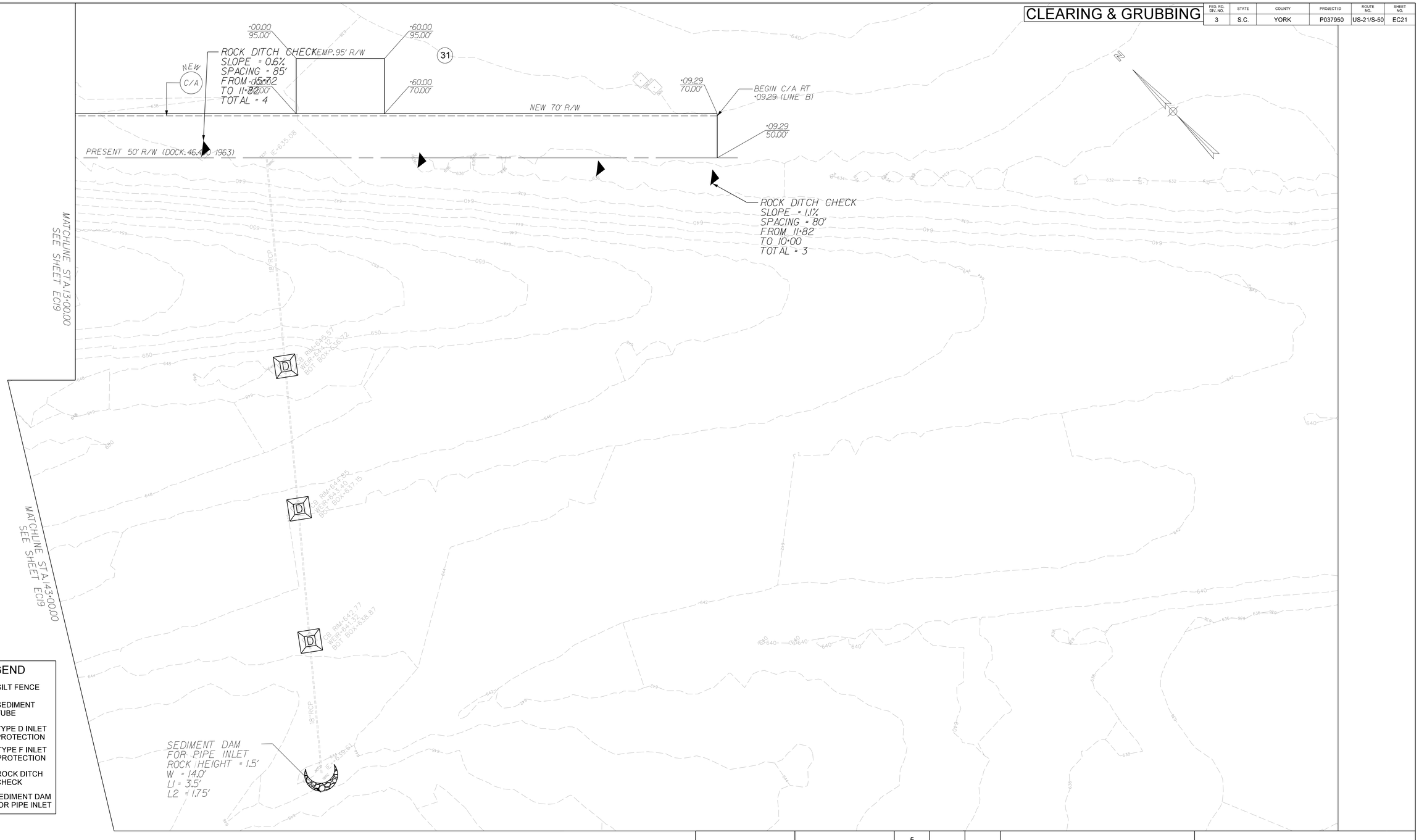
SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\EC Sheets\EC20.dgn

CLEARING & GRUBBING

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC21



LEGEND

- SILT FENCE
- SEDIMENT TUBE
- TYPE D INLET PROTECTION
- TYPE F INLET PROTECTION
- ROCK DITCH CHECK
- SEDIMENT DAM FOR PIPE INLET

KCI TECHNOLOGIES
ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

0 20 40 60 80

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 33847 — LEANNE YOUNG

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
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YORK COUNTY

EROSION CONTROL PLAN SHEET
US-21

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Plan Sheets\EC Sheets\EC21.dgn

FINAL - EC

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	EC22

+00.00
95.00'

+60.00
95.00'

ROCK DITCH CHECK
SLOPE = 0.6%
SPACING = 85'
FROM 10+82
TO 11+82
TOTAL = 4

TEMP. 95' R/W

+60.00
70.00'

NEW
C/A

31

+09.29
70.00'

BEGIN C/A RT
+09.29 (LINE B)

NEW 70' R/W

+09.29
50.00'

PRESENT 50' R/W (DOCK 46.4 & 1963)

LINE W/ ECB
FROM 9+00
TO 12+60

ROCK DITCH CHECK
SLOPE = 1.1%
SPACING = 80'
FROM 11+82
TO 10+00
TOTAL = 3

MATCHLINE STA 13+00.00
SEE SHEET EC20

N 45° 56' 54" W

C98'

F89'

SEDIMENT DAM FOR
PIPE INLET
ROCK HEIGHT = 2.0'
W = 12.0'
LI = 4.0'
L2 = 2.0'

CB RIM 645.57
WEIR 644.57
BOT BOX 636.72

LINE W/ ECB
FROM 144+51
TO 145+47

ROCK DITCH CHECK
SLOPE = 0.3%
SPACING = 80'
FROM 144+51
TO 145+47
TOTAL = 1

10

POT = 10+00.00

C43'

C46'

145

CB RIM 644.85
BOT 643.10
BOT 639.61

18" RCP

MATCHLINE STA 143+00.00
SEE SHEET EC20

PT = 145+47.29

SEDIMENT DAM FOR
PIPE INLET
ROCK HEIGHT = 2.0'
W = 12.0'
LI = 4.0'
L2 = 2.0'

CB RIM 643
BOT 641.5

SEDIMENT DAM
FOR PIPE INLET
ROCK HEIGHT = 1.5'
W = 14.0'
LI = 3.5'
L2 = 1.75'

ROCK DITCH CHECK
SLOPE = 0.5%
SPACING = 10'
HEIGHT = .5'
FROM 141+26
TO 143+84
TOTAL = 23

ROCK DITCH CHECK
SLOPE = 0.2%
SPACING = 85'
FROM 16+81
TO 23+26
TOTAL = 1

ROCK DITCH CHECK
SLOPE = 4.3%
SPACING = 20'
FROM 16+06
TO 16+81
TOTAL = 3

LEGEND

- SILT FENCE
- SEDIMENT TUBE
- TYPE D INLET PROTECTION
- TYPE F INLET PROTECTION
- ROCK DITCH CHECK
- SEDIMENT DAM FOR PIPE INLET

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

0 20 40 60 80

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. CO0651
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 33847
ALAN YOCO

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
5			
4			
3			
2			
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YORK COUNTY

EROSION CONTROL PLAN SHEET
US-21

SCALE 1" = 20'

SCALE : 20.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

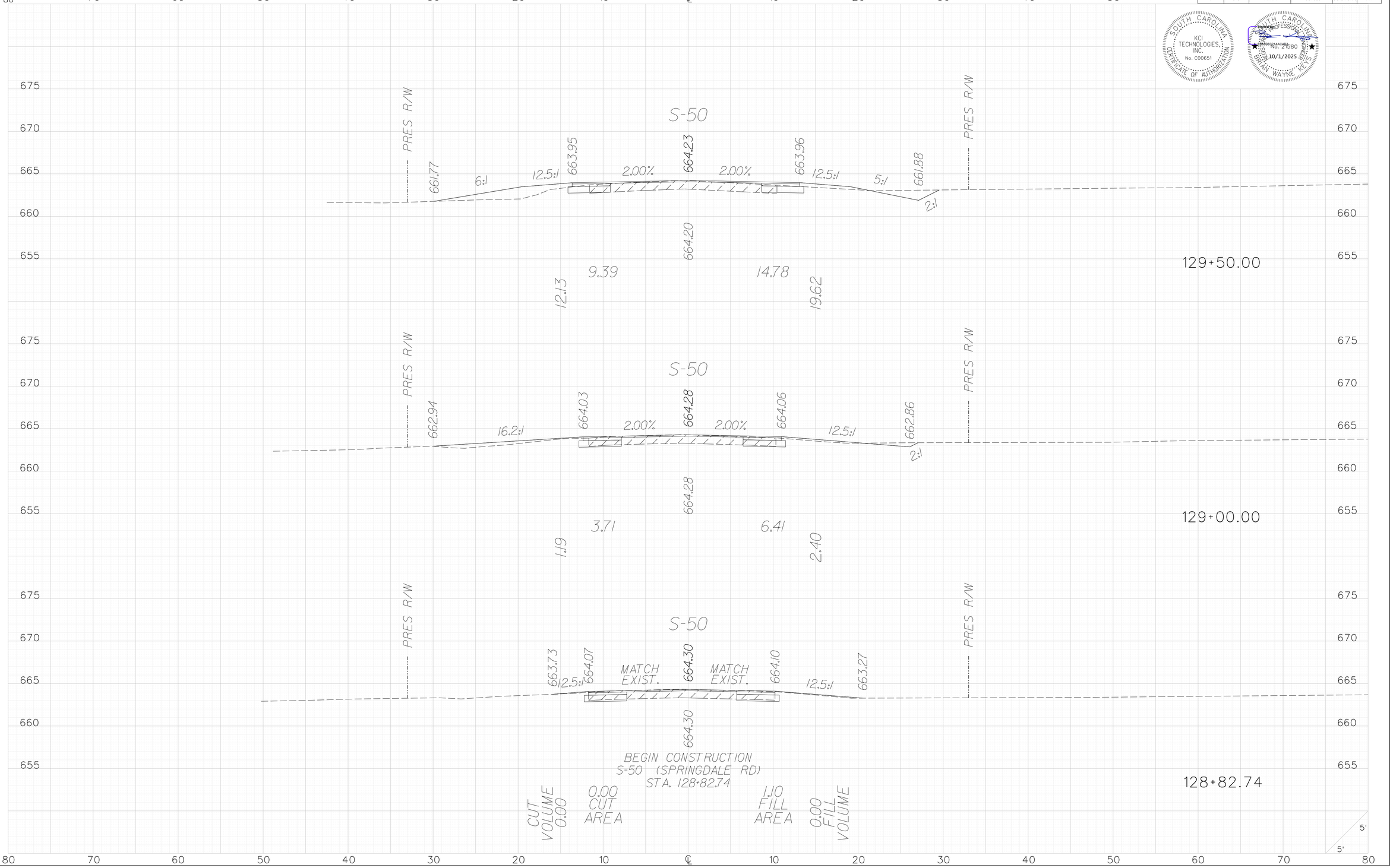
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02. Working\Roadway\DGN\Plan Sheets\EC Sheets\EC22.dgn

S-50

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X1

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
KCI TECHNOLOGIES, INC.
No. C00651

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
BRIAN WAYNE KEYS
No. 21580
10/1/2025



SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
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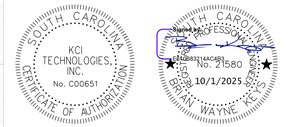
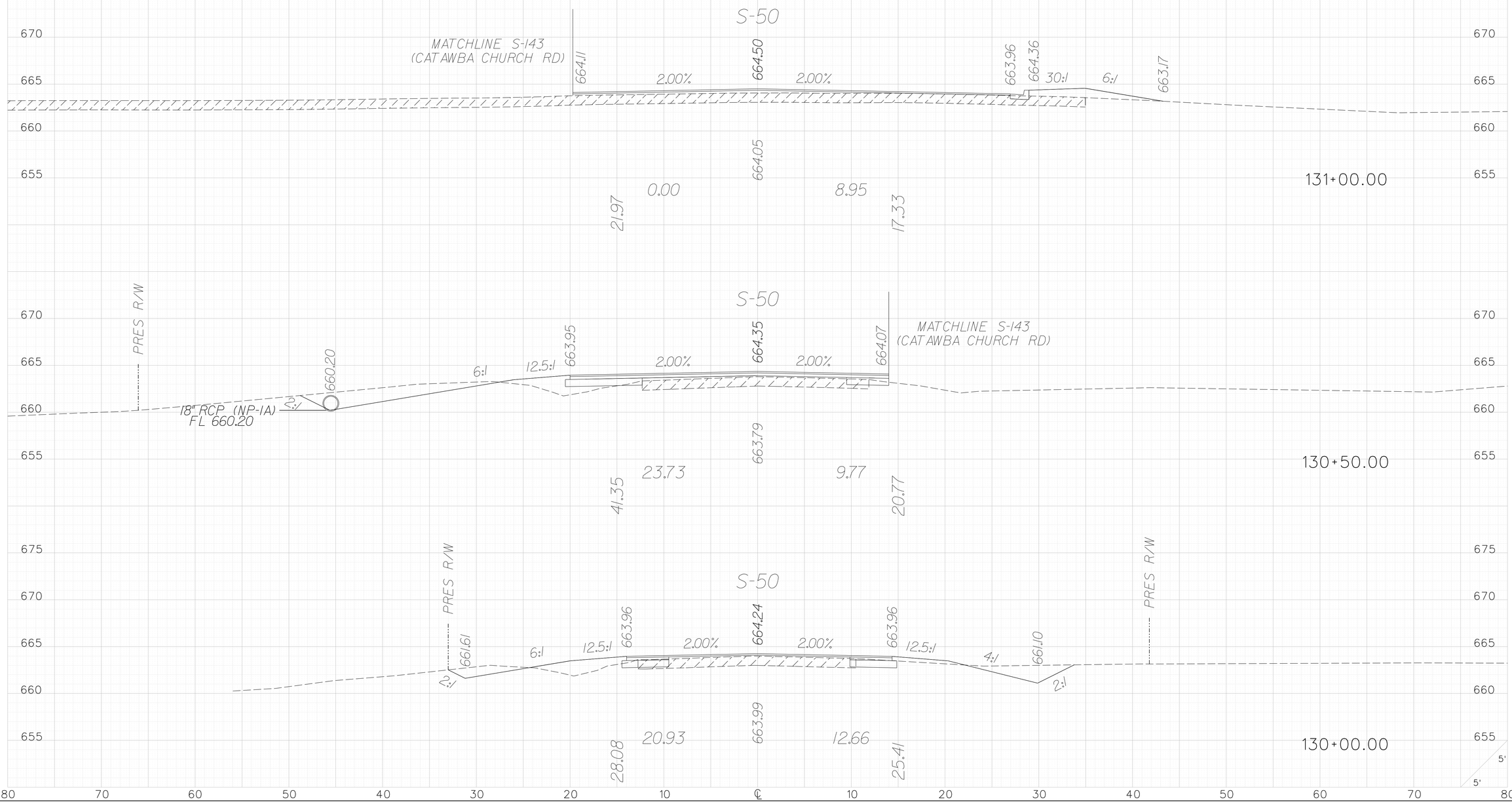
S-50

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X2





SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
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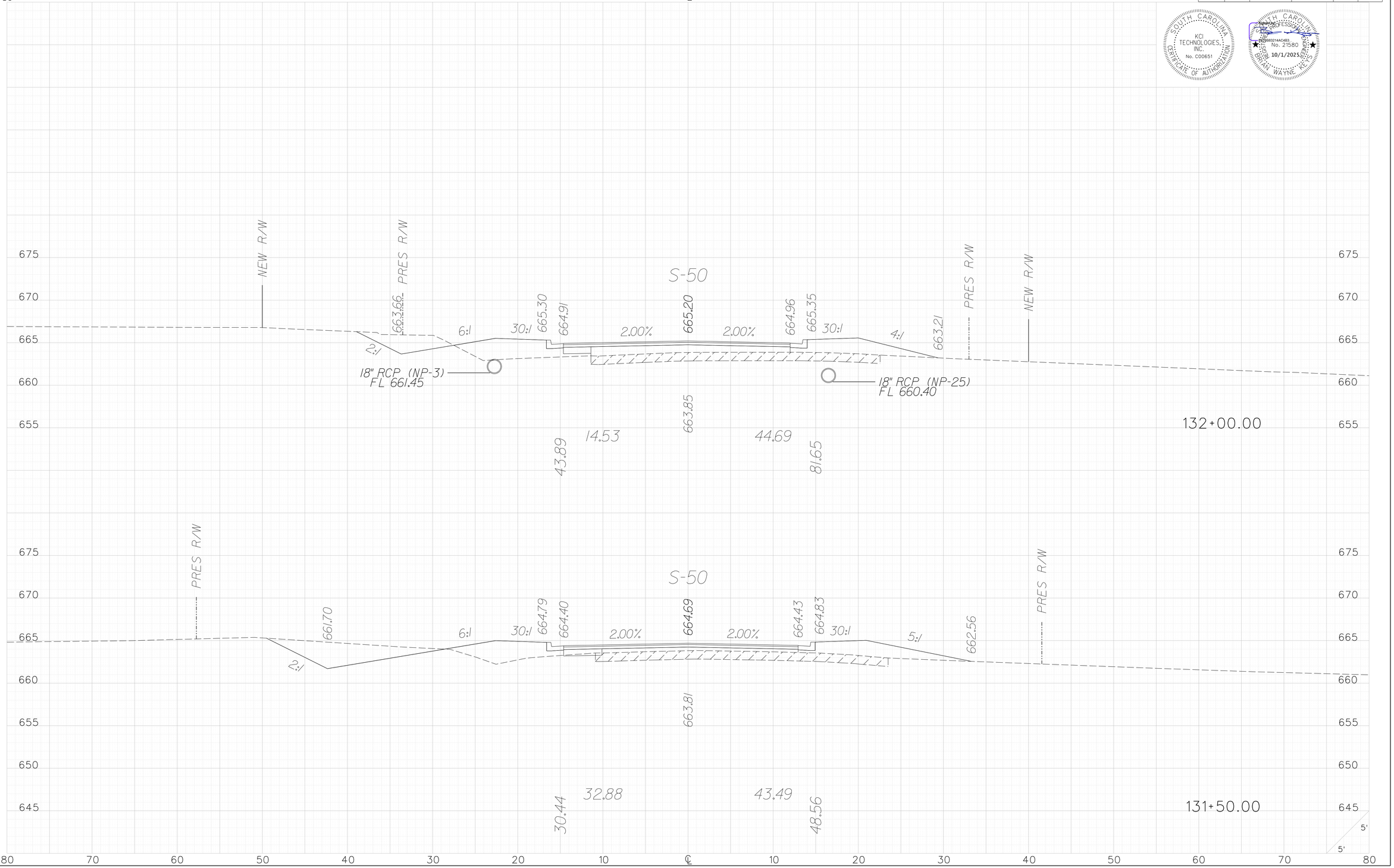
S-50

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X3

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
KCI TECHNOLOGIES, INC.
No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER
BRIAN WAYNE KEY
No. 21580
10/1/2025



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PLOTTED : 9/15/2025
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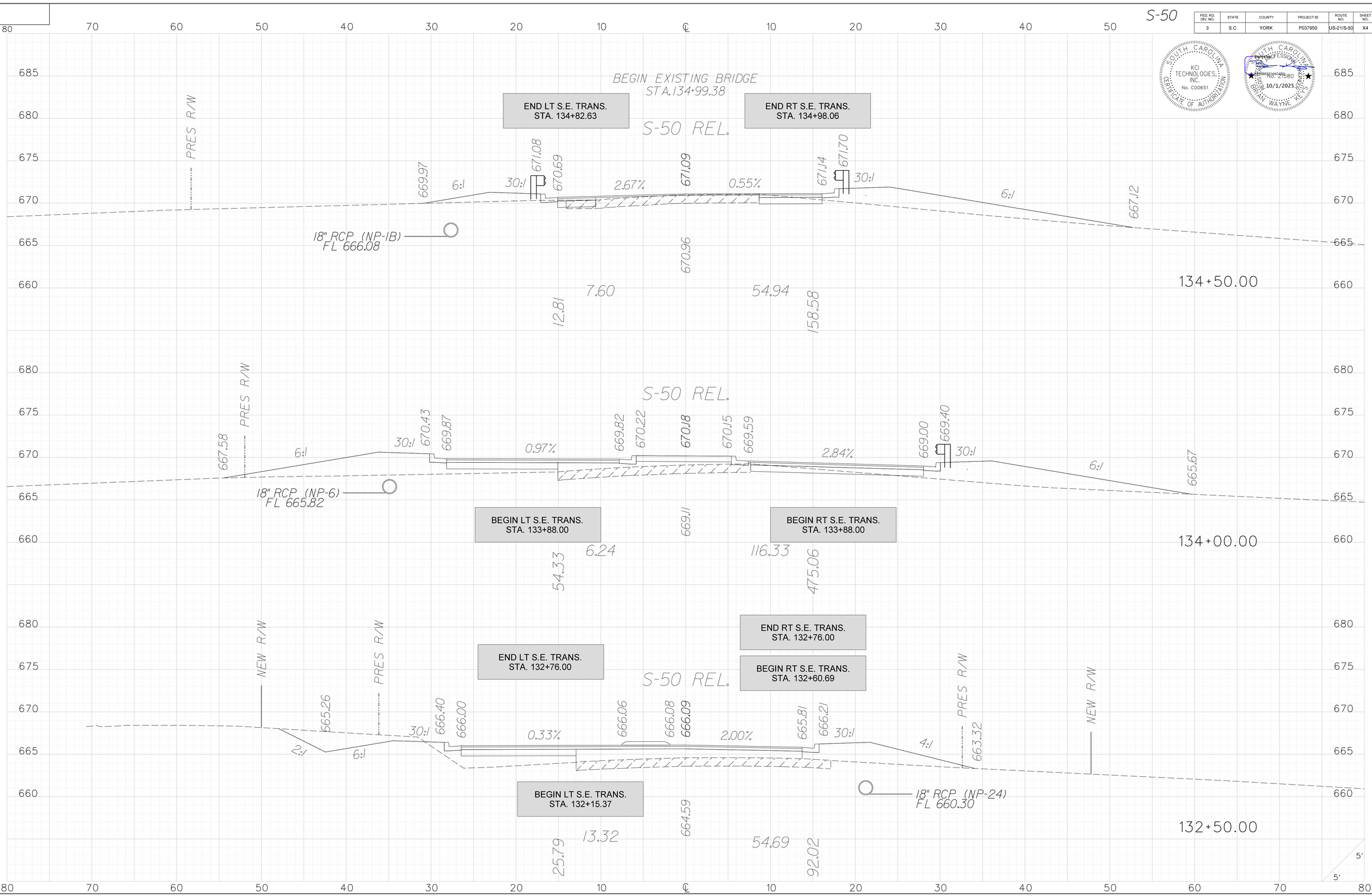
S-50

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X4

SOUTH CAROLINA — CERTIFICATE OF AUTHORIZATION — KCI TECHNOLOGIES, INC. No. C00651

SOUTH CAROLINA — PROFESSIONAL ENGINEER — Registered Engineer No. 23580 — 10/1/2025 — BRIAN WAYNE KEYS



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PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl

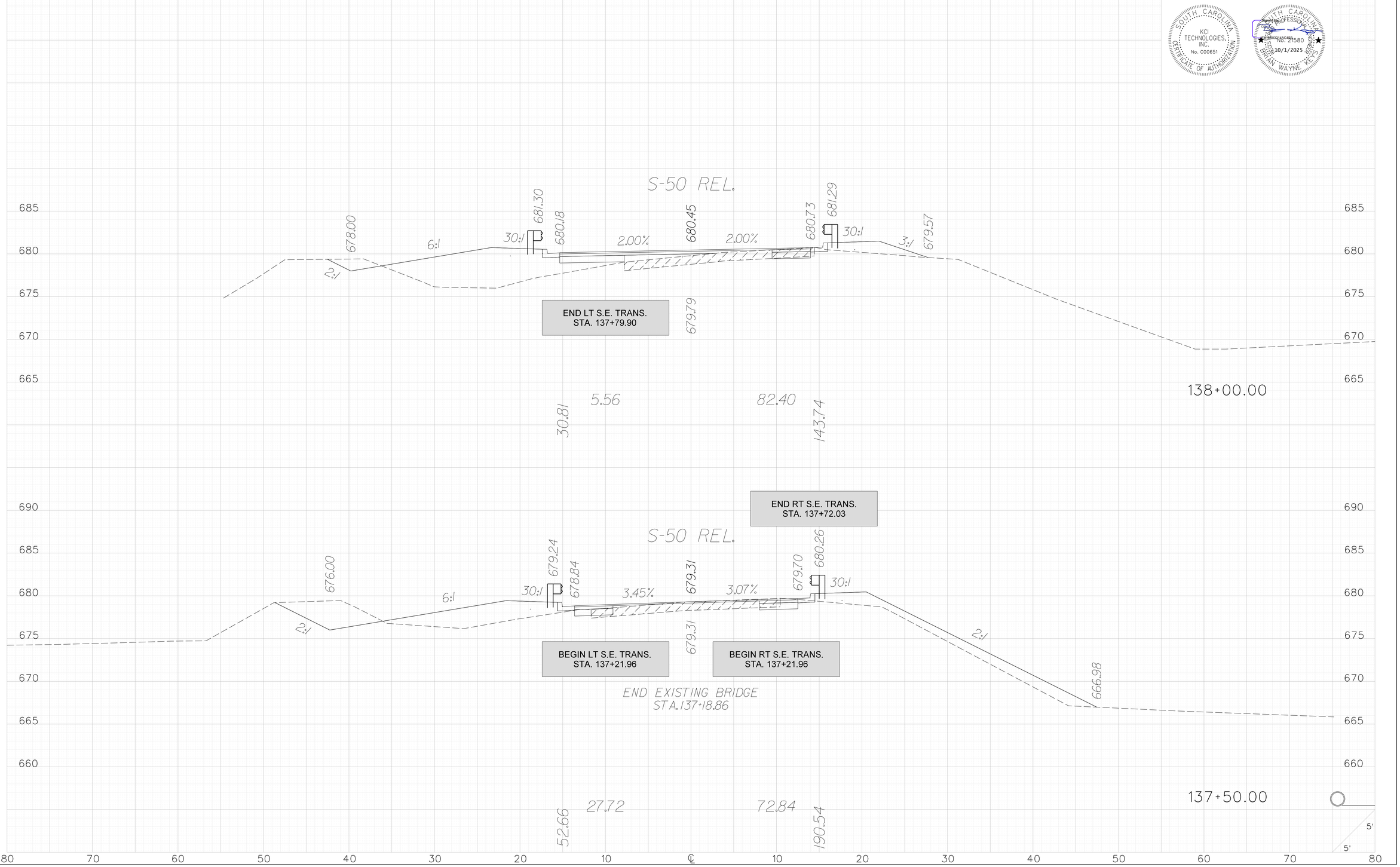
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\20192519037862. Working\Roadway\DGN\Cross Sections\Cross Section Sheets\LAY_XS_S50.dgn

S-50

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X5

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
KCI TECHNOLOGIES, INC.
No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER
BRIAN WAYNE KEYS
No. 21580
10/1/2025



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PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
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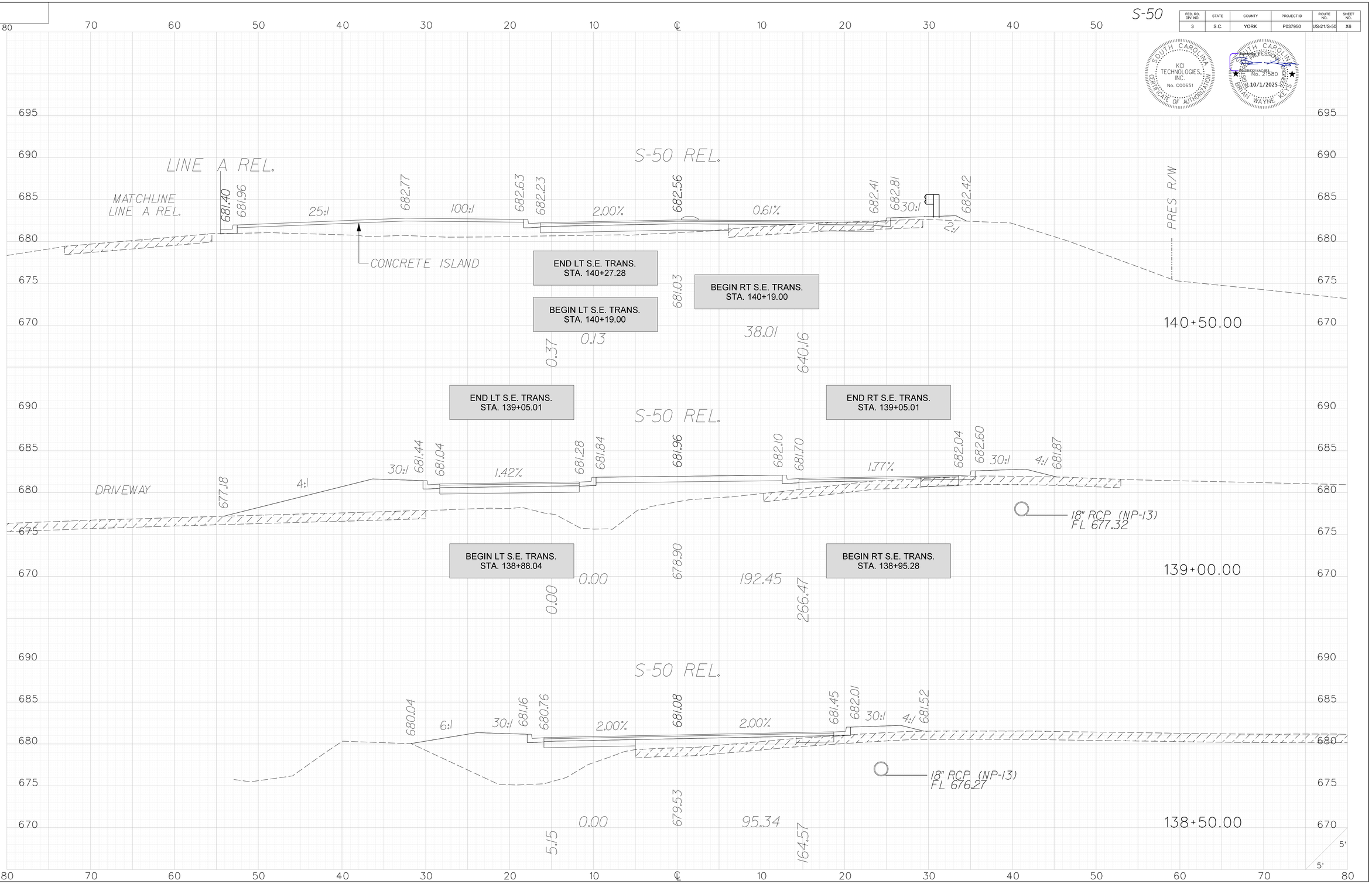
S-50

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X6

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION KCI TECHNOLOGIES, INC. No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER BRIAN WAYNE KEYS No. 21580 10/1/2025



SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
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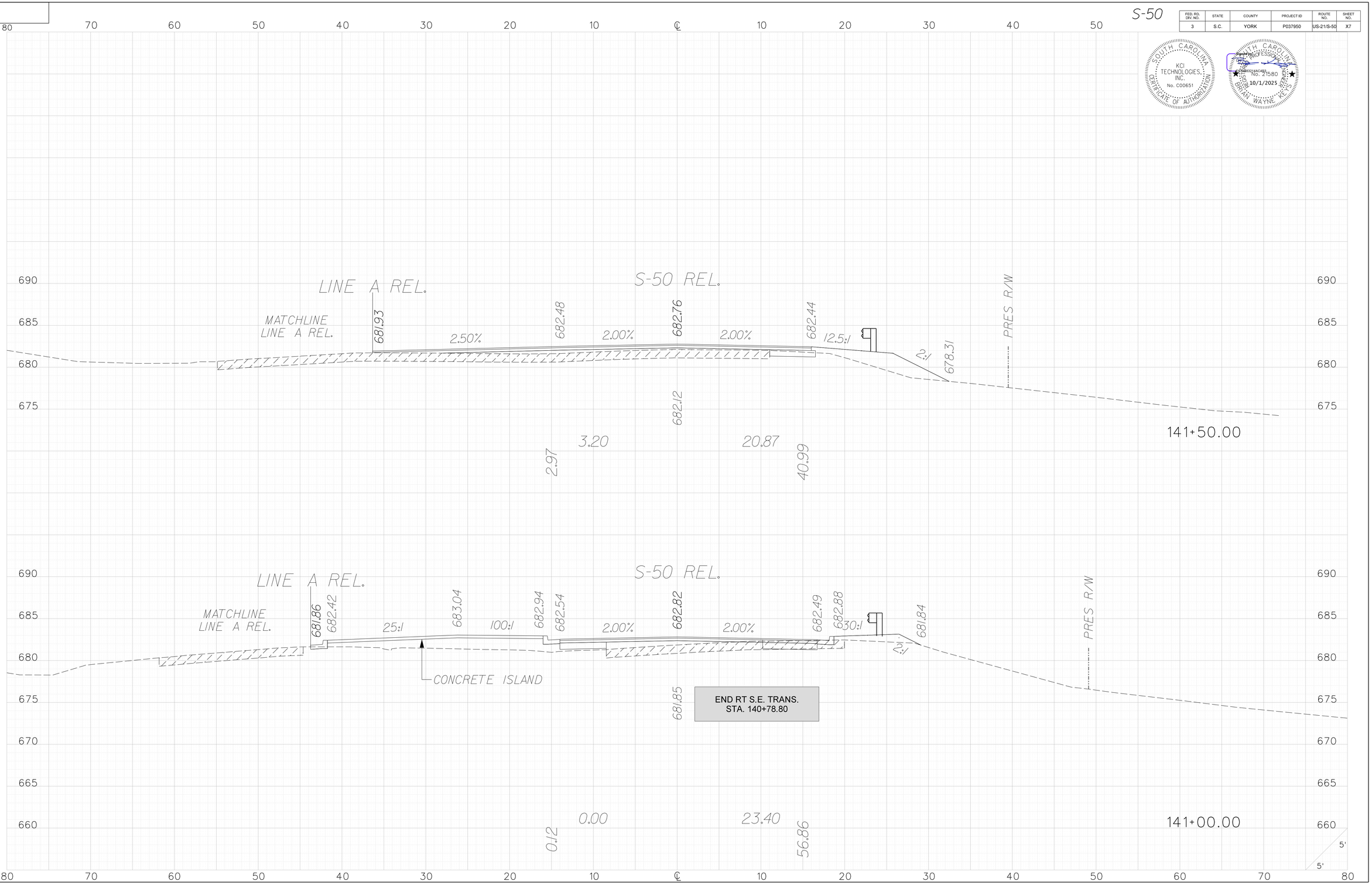
S-50

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X7

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION KCI TECHNOLOGIES, INC. No. C00651

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 21580 BRIAN WAYNE KEYS 10/1/2025



SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02. Working\Roadway\DGN\Cross Sections\Cross Section Sheets\LAY_XS_S50.dgn

S-50

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X8

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
KCI TECHNOLOGIES, INC.
No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER
BRIAN WAYNE KEYS
No. 21580
10/1/2025

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50

695 690 685 680 675

PRES R/W

LINE A REL.

MATCHLINE LINE A REL.

681.65 681.70 2.50% 2.00% 681.98 2.00% 681.65 12.5:1

S-50 REL.

PRES R/W 3:1 678.06

NEW R/W

681.35 1.41 30.12 3.67 52.62

142+50.00

LINE A REL.

MATCHLINE LINE A REL.

681.80 2.50% 682.12 2.00% 682.40 2.00% 682.08 12.5:1

S-50 REL.

2:1 678.46 PRES R/W

681.73 2.56 26.71 5.33 44.05

142+00.00

5' 5'

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Cross Sections\Cross Section Sheets\LAY_XS_S50.dgn

S-50

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X9

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA
PROFESSIONAL ENGINEER
SEAL
No. 23580
10/1/2025
BRIAN WAYNE KEYS

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50

695 690 685 680 675 670

PRES R/W

678.55 6:1 15.9:1 680.21 0.31% 680.30 2.00% 679.94 12.5:1 PRES R/W 5:1 675.91 NEW R/W

S-50 REL.

680.16

9.33 2.72 42.31 52.77

143+50.00

PRES R/W

BEGIN LT S.E. TRANS.
STA. 143+15.00

679.56 6:1 12.5:1 680.69 2.00% 681.31 2.00% 680.98 12.5:1 4:1 678.25 PRES R/W NEW R/W

S-50 REL.

680.82

8.11 7.35 14.68 41.48

143+00.00

5'
5'

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02. Working\Roadway\DGN\Cross Sections\Cross Section Sheets\LAY_XS_S50.dgn

S-50

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X10

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
REGISTRATION NO. 27580
10/1/2025
BRIAN WAYNE KEY

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

690 685 680 675 670

PRES R/W

BEGIN LT S.E. TRANS.
STA. 144+77.03

S-50 REL.

677.40 6:1 80:/ 678.35 1.25% 678.01 3.11% 677.39 12.5:1 PRES R/W 6:1 674.40 NEW R/W

2:1

677.99

BEGIN RT S.E. TRANS.
STA. 144+27.07

10.76 11.58 14.15 41.07

144+50.00

PRES R/W

S-50 REL.

678.27 6:1 80:/ 679.43 1.25% 679.09 2.00% 678.70 12.5:1 PRES R/W 5:1 675.05 NEW R/W

679.08

END LT S.E. TRANS.
STA. 143+82.25

4.52 32.78 6.71 69.53

144+00.00

5' 5'

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02. Working\Roadway\DGN\Cross Sections\Cross Section Sheets\LAY_XS_S50.dgn

S-50

FED. RD. DRV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X11

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

REGISTERED PROFESSIONAL ENGINEER
STATE OF SOUTH CAROLINA
No. 21580
10/1/2025
BRIAN WAYNE KEY

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50

690
685
680
675
670

PRES R/W
676.63
6:1
677.79
65.9:1
END CONSTRUCTION
S-50 REL. (SPRINGDALE RD)
STA. 144+82.61
S-50 REL.
END LT S.E. TRANS.
STA. 144+82.61
END RT S.E. TRANS.
STA. 144+82.61
MATCH EXIST.
677.39
MATCH EXIST.
676.47
12.5:1
675.85
PRES R/W
NEW R/W
2:1
677.39
15.02
14.14
0.51
7.29
144+82.58
5'
5'

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\20192519037862\ WorkingIRoadwayIDGN\Cross Sections\Cross Section Sheets\LAY_XS_S50.dgn

S-143

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X12

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
KCI TECHNOLOGIES, INC.
No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER
REGISTRATION NO. 27580
10/1/2025
BRIAN WAYNE KEYS

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

670 665 660 655 650 645

PRES R/W

S-143

661.72 661.83 661.24 660.43 659.55

20:1 6:1 5.00% 5.00% 12.5:1 4:1

661.24

145.04 1.55 1.90 13.33

16+50.00

MATCHLINE LINE D REL.

663.32 660.91 660.16 657.96

20:1 5:1 5.00% 5.00% 12.5:1 4:1

660.91

BEGIN CONSTRUCTION
S-143 (CATAWBA CHURCH RD)
STA. 15+61.87

CUT VOLUME 0.00 | 155.10 CUT AREA | 12.49 FILL AREA | 0.00 FILL VOLUME

16+00.00

5' 5'

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02. Working\Roadway\DGN\Cross Sections\Cross Section Sheets\LAY_XS_S143.dgn

S-143

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X13

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION KCI TECHNOLOGIES, INC. No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER BRIAN WAYNE KEYS No. 23580 10/1/2025

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

675 670 665 660 655

PRES R/W

S-143

659.00

2:1

3:1

6:1

12.5:1

661.54

22.36

14.73

0.00

0.71

17+50.00

END CONSTRUCTION
BEGIN 1.75" MILLING
S-143 (CATAWBA CHURCH RD)
STA. 17+00.00

S-143

659.47

661.86

MATCH EXISTING

MATCH EXISTING

660.71

660.31

20:1

12.5:1

4:1

661.46

10.17

9.43

0.77

2.47

17+00.00

5'

5'

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\20192519037862. Working\Roadway\DGN\Cross Sections\Cross Section Sheets\LAY_XS_S143.dgn

S-143

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X14

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
KCI TECHNOLOGIES, INC.
No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER
Digitally signed by BRIAN WAYNE KEYS
DN: c=US, o=KCI TECHNOLOGIES, INC., cn=BRIAN WAYNE KEYS, 0.9.2342.19200300.100.1.1=F2B9B3214AC483
No. 21580
10/1/2025

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

675 670 665 660 655

PRES R/W

S-143

659.02

6:1 12.5:1

2:1 3:1

661.82

24.64 16.08 0.00 0.00

18+50.00

PRES R/W

S-143

658.84

6:1 12.5:1

2:1 2:1

661.69

23.39 10.53 0.00 0.00

18+00.00

5'
5'

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
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S-143

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X15

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
Registration No. 21580
10/1/2025
BRIAN WAYNE KEYS

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

675
670
665
660
655

PRES R/W

18" RCP (NP-53)
FL 659.73

S-143

662.40

PRES R/W

19+50.00

PRES R/W

659.29

6:1

12.5:1

2:1

3:1

S-143

662.14

PRES R/W

19+00.00

27.02 13.11 0.00 0.00

5'
5'

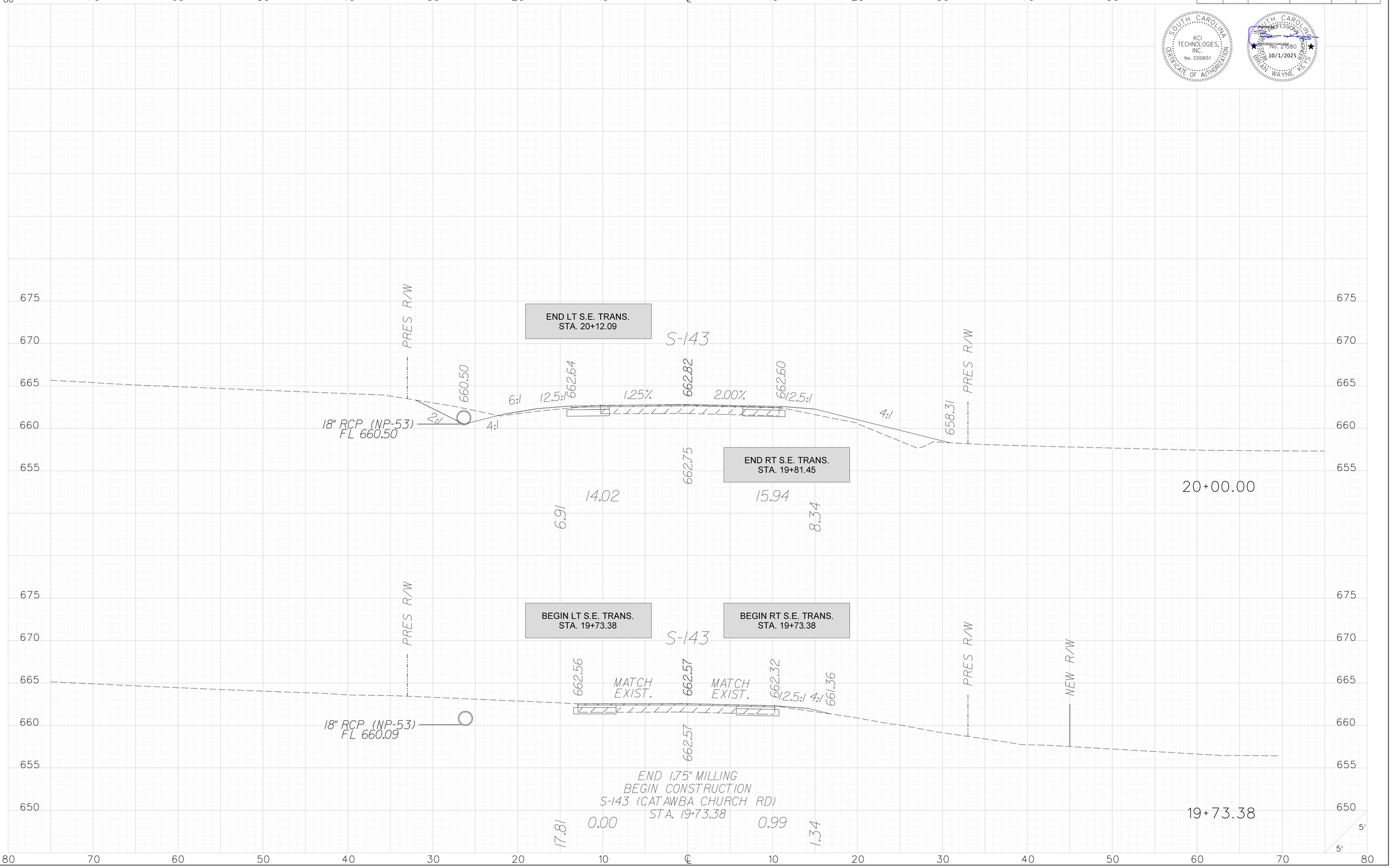
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Cross Sections\Cross Section Sheets\LAY_XS_S143.dgn
SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

S-143

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X16

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
KCI TECHNOLOGIES, INC.
No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER
BRIAN WAYNE KEY
No. 21580
10/1/2025



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PLOTTED : 9/15/2025

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S-143

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X17

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. No. C00651 — CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA — PROFESSIONAL ENGINEER — SEAL 043580 — 10/1/2025 — BRIAN WAYNE KEYS

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

675 670 665 660 655

PRES R/W

S-143

END RT S.E. TRANS.
STA. 22+21.18

663.13 — 6:1 — 664.02 — 0.38% — 664.08 — 0.81% — 663.76 — MATCHLINE S-50

BEGIN LT S.E. TRANS.
STA. 21+86.00

BEGIN RT S.E. TRANS.
STA. 21+86.00

77.14 — 2.40 — 663.83 — 5.44 — 49.47

22+00.00

END LT S.E. TRANS.
STA. 21+16.10

END RT S.E. TRANS.
STA. 21+16.10

661.60 — 2:1 — 6:1 — 30:1 — 664.08 — 663.69 — 0.48% — 663.79 — 1.08% — 663.64 — 12.5:1 — 4:1 — 659.70 — 2:1

BEGIN RT S.E. TRANS.
STA. 20+80.92

51.20 — 39.26 — 663.27 — 21.28 — 29.85

21+00.00

BEGIN LT S.E. TRANS.
STA. 20+68.51

661.40 — 2:1 — 4:1 — 6:1 — 12.5:1 — 663.00 — 2.00% — 663.31 — 2.00% — 663.07 — 12.5:1 — 4:1 — 659.25

27.83 — 16.04 — 663.11 — 10.96 — 24.91

20+50.00

5'
5'

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\l2. Working\Roadway\DGN\Cross Sections\Cross Section Sheets\LAY_XS_S143.dgn

S-143

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X18

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
KCI TECHNOLOGIES, INC.
No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER
REGISTRATION NO. 23580
10/1/2025
BRIAN WAYNE KEYS

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

END CONSTRUCTION
S-143 (CATAWBA CHURCH RD)
STA. 23+01.87

END LT S.E. TRANS.
STA. 23+01.87

END RT S.E. TRANS.
STA. 23+01.87

PRES R/W

S-143

662.32 | 7.5:1 | 12.5:1 | 663.43 | MATCH EXIST. | 663.66 | MATCH EXIST. | 663.48 | 12.5:1 | 663.17

663.65

0.03 | 0.28 | 2.34 | 0.17

680 675 670 665 660 655

23+01.87

PRES R/W

S-143

662.27 | 7.5:1 | 12.5:1 | 663.45 | 2.12% | 663.67 | 1.79% | 663.48 | 12.5:1 | 663.18

BEGIN LT S.E. TRANS.
STA. 22+97.11

663.65

BEGIN RT S.E. TRANS.
STA. 22+95.04

8.39 | 0.67 | 2.57 | 7.66

675 670 665 660 655

23+00.00

PRES R/W

S-143

MATCHLINE DRIVEWAY

663.63 | 2.00% | 663.87 | 2.00% | 663.59 | 12.5:1 | 6:1 | 661.60 | 2:1

15" RCP (NP-51)
FL 660.32

END LT S.E. TRANS.
STA. 22+33.70

663.74

9.99 | 8.39 | 5.70 | 10.31

675 670 665 660 655

22+50.00

5'
5'

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

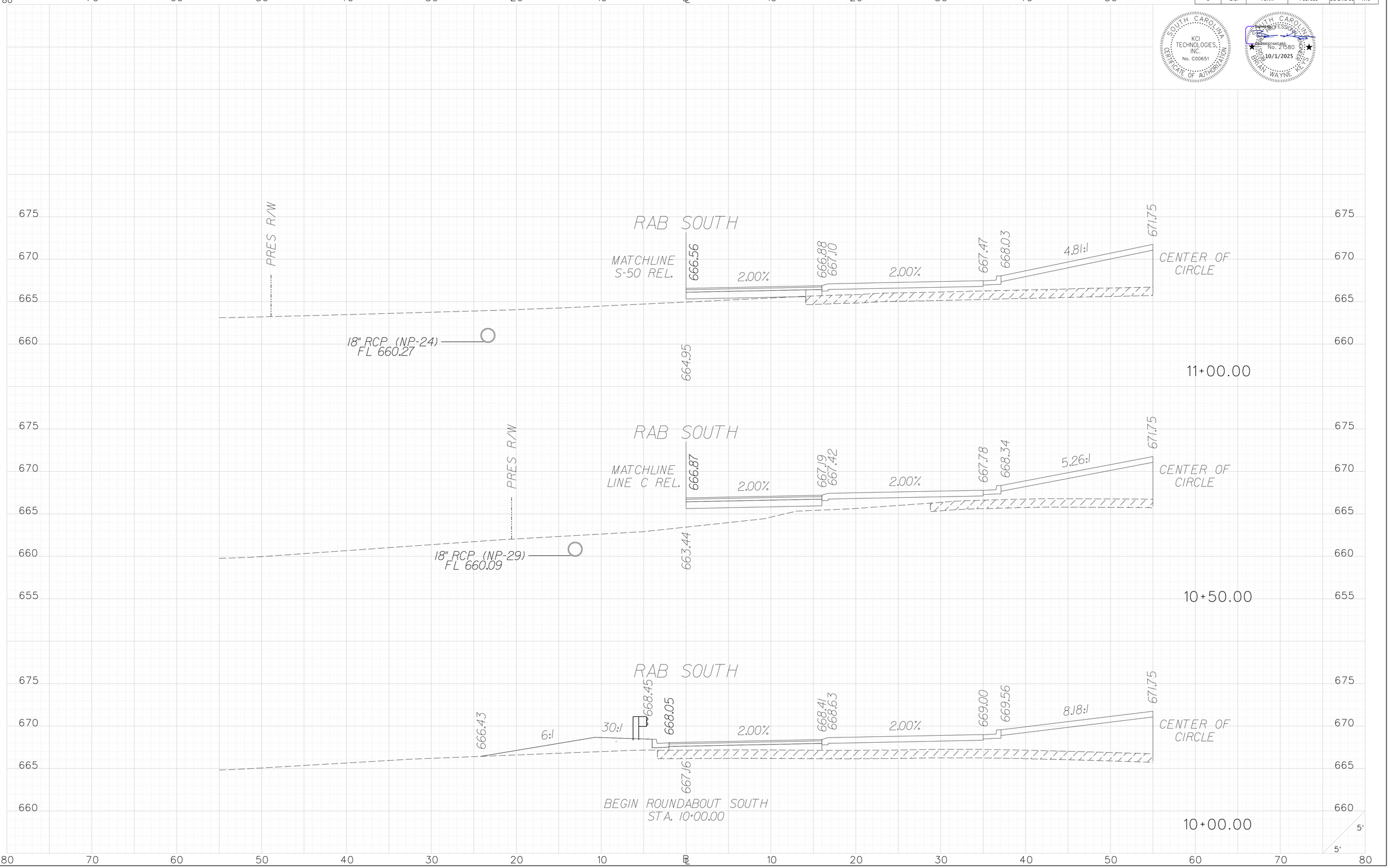
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\20191251903786\2. Working\Roadway\DGN\Cross Sections\LAY_XS_S143.dgn

FED. RD. DRV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X19

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION KCI TECHNOLOGIES, INC. No. C00651

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 21580 BRIAN WAYNE KEYS 10/1/2025

DocuSigned by: 5B8B9321AC4B8...



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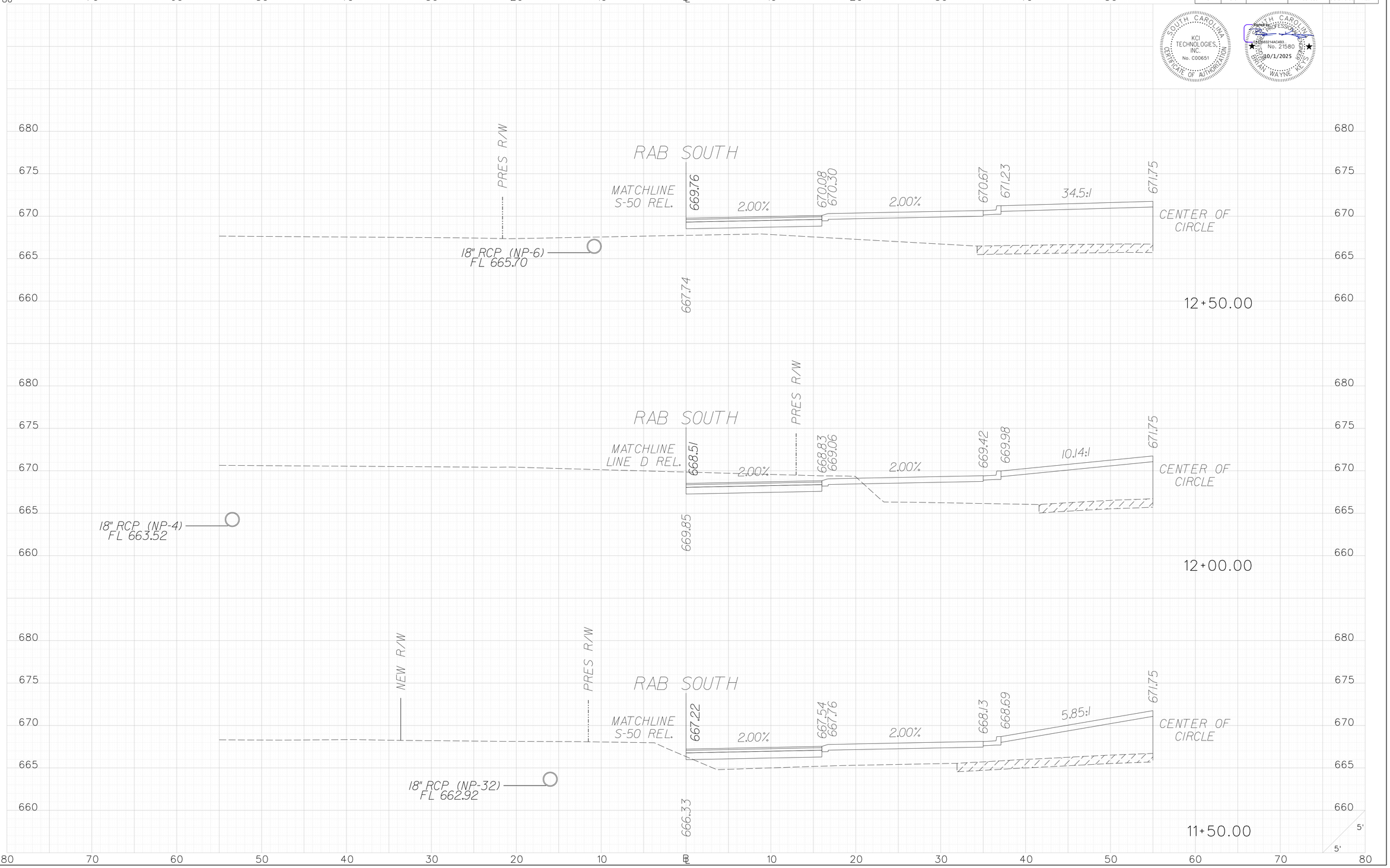
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02. Working\Roadway\DGN\Cross Sections\LAY_XS_RAB_SOUTH.dgn

RAB SOUTH

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X20

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

Signed by: BRIAN WAYNE KEYS
SOUTH CAROLINA
No. 21580
PROFESSIONAL ENGINEER
10/1/2025



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PLOTTED : 9/15/2025
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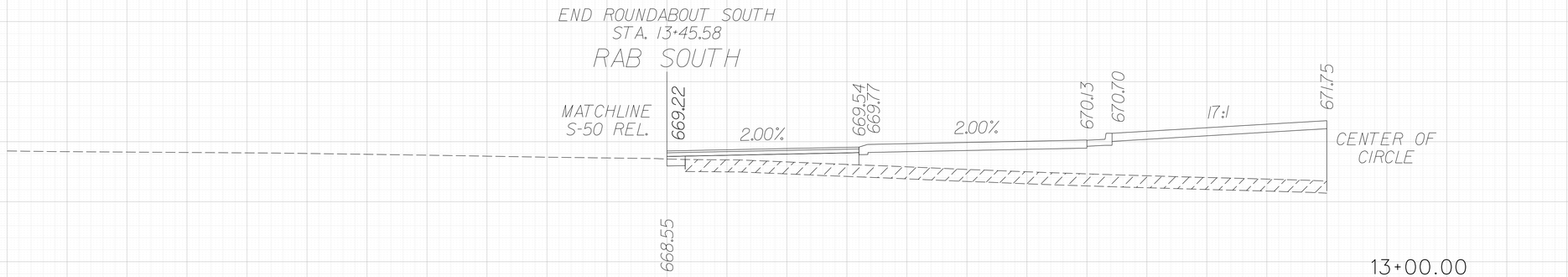
RAB SOUTH

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X21

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 21580
REGISTERED
10/1/2025
BRIAN WAYNE KEY



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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X22

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 21580
BRIAN WAYNE KEYS
10/1/2025

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

690 685 680 675

RAB NORTH
684.25 | 25.3:1 | 683.54 | 682.98 | 2.00% | 682.62 | 682.39 | 2.00% | 682.07 | 682.00 | 682.40 | 30:1 | 6:1 | 680.25
CENTER OF CIRCLE
MATCHLINE LINE A REL.
18" RCP (NP-I7) FL 678.II
679.66
11+00.00

RAB NORTH
684.25 | 42.72:1 | 683.83 | 683.27 | 2.00% | 682.90 | 682.68 | 2.00% | 682.36
CENTER OF CIRCLE
MATCHLINE S-50 REL.
681.69
10+50.00

RAB NORTH
684.25 | 33.8:1 | 683.72 | 683.16 | 2.00% | 682.79 | 682.57 | 2.00% | 682.25 | 682.15 | 682.55 | 30:1 | 2:1
CENTER OF CIRCLE
18" RCP (NP-I2) FL 678.II
681.85
BEGIN ROUNDABOUT NORTH STA. 10+00.00
670.82
10+00.00

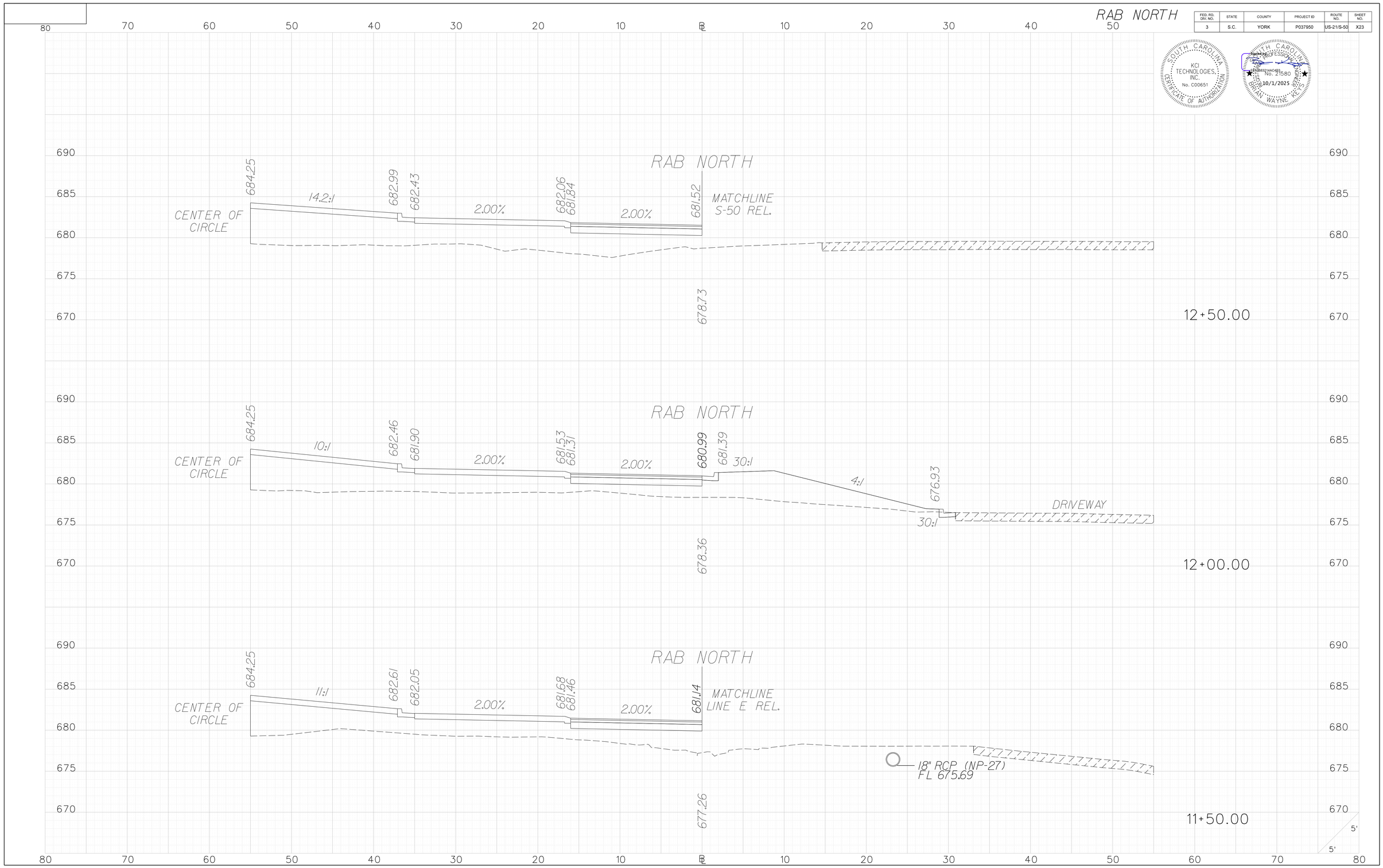
5'
5'

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Cross Sections\Cross Section Sheets\LAY_XS_RAB_NORTH.dgn

FED. RD. DRV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X23

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION KCI TECHNOLOGIES, INC. No. C00651

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 21580 BRIAN WAYNE KEYS 10/1/2025



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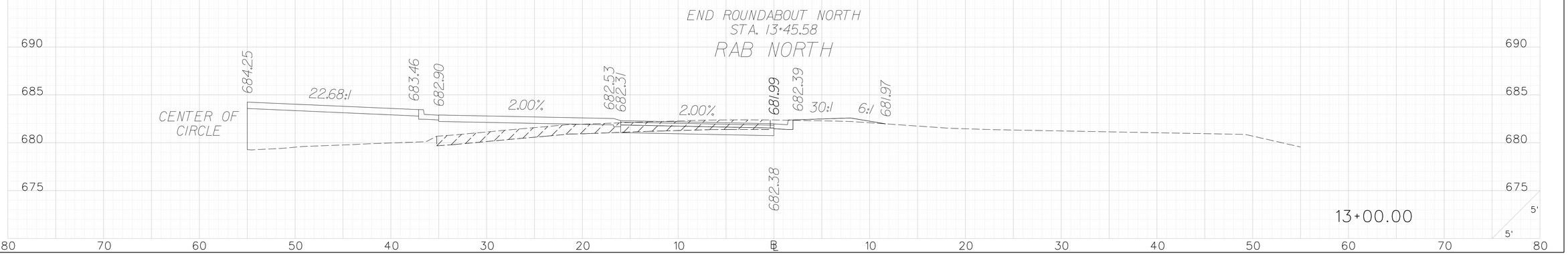
RAB NORTH

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X24

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER
BRIAN WAYNE KEYS
Expires 06/30/2027
REGISTRATION NO. 27815
10/1/2025



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PLOTTED : 9/15/2025
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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X25

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA
PROFESSIONAL ENGINEER
No. 21580
10/1/2025
BRIAN WAYNE KEYS

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50

695 690 685 680 675

S-50 REL.

MATCHLINE S-50 REL.

682.67

2.09%

141+66.27

CROSS SECTION IS CUT PERPENDICULAR TO LINE A REL.℄ S-50 REL.CROSS SLOPES ARE PERPENDICULAR TO ℄ LINE A REL.

LINE A REL.

681.89

2.60%

681.54

5.29%

680.72

12.5:1

678.40

6:1

2:1

PRES R/W

695 690 685 680 675

14+00.00

42.71 32.92 0.02 0.72

S-50 REL.

MATCHLINE S-50 REL.

682.24

2.14%

142+19.47

CROSS SECTION IS CUT PERPENDICULAR TO LINE A REL.℄ S-50 REL.CROSS SLOPES ARE PERPENDICULAR TO ℄ LINE A REL.

LINE A REL.

681.74

2.62%

681.16

3.48%

680.97

12.5:1

6:1

679.40

5.83:1

PRES R/W

BEGIN S.E. TRANS. STA. 13+09.17

BEGIN LINE A REL. STA. 13+09.16

695 690 685 680 675 670

13+50.00

CUT VOLUME 0.00

13.21 CUT AREA

0.76 FILL AREA

0.00 FILL VOLUME

5'
5'

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/29/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
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LINE A REL.

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X26

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION KCI TECHNOLOGIES, INC. No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER BRIAN WAYNE KEYS 10/1/2025

PRES R/W

S50_REL_FULL

682.62 — 1.80% — 682.35 — 682.75 — 100:1 — 25:1 — 682.23 — 681.67 — 7.20% — 680.08 — 12.5:1 — 6:1 — 676.44 — 2:1

140+58.72

CROSS SECTION IS CUT PERPENDICULAR TO LINE A REL.℄. S-50 REL.CROSS SLOPES ARE PERPENDICULAR TO ℄ LINE A REL.

CONCRETE ISLAND

681.31

91.43 — 27.68 — 41.06 — 25.63

15+00.00

S-50 REL.

LINE A REL.

MATCHLINE S-50 REL.

682.84 — 1.98% — 2.48% — 681.89 — 7.10% — 680.33 — 12.5:1 — 6:1 — 677.40 — 2:1

141+12.92

CROSS SECTION IS CUT PERPENDICULAR TO LINE A REL.℄. S-50 REL.CROSS SLOPES ARE PERPENDICULAR TO ℄ LINE A REL.

681.80

83.89 — 0.00 — 57.68 — 0.02

14+50.00

END S.E. TRANS.
BEGIN FULL S.E.
STA. 14+52.62

690 / 685 / 680 / 675 / 695

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

5' 5'

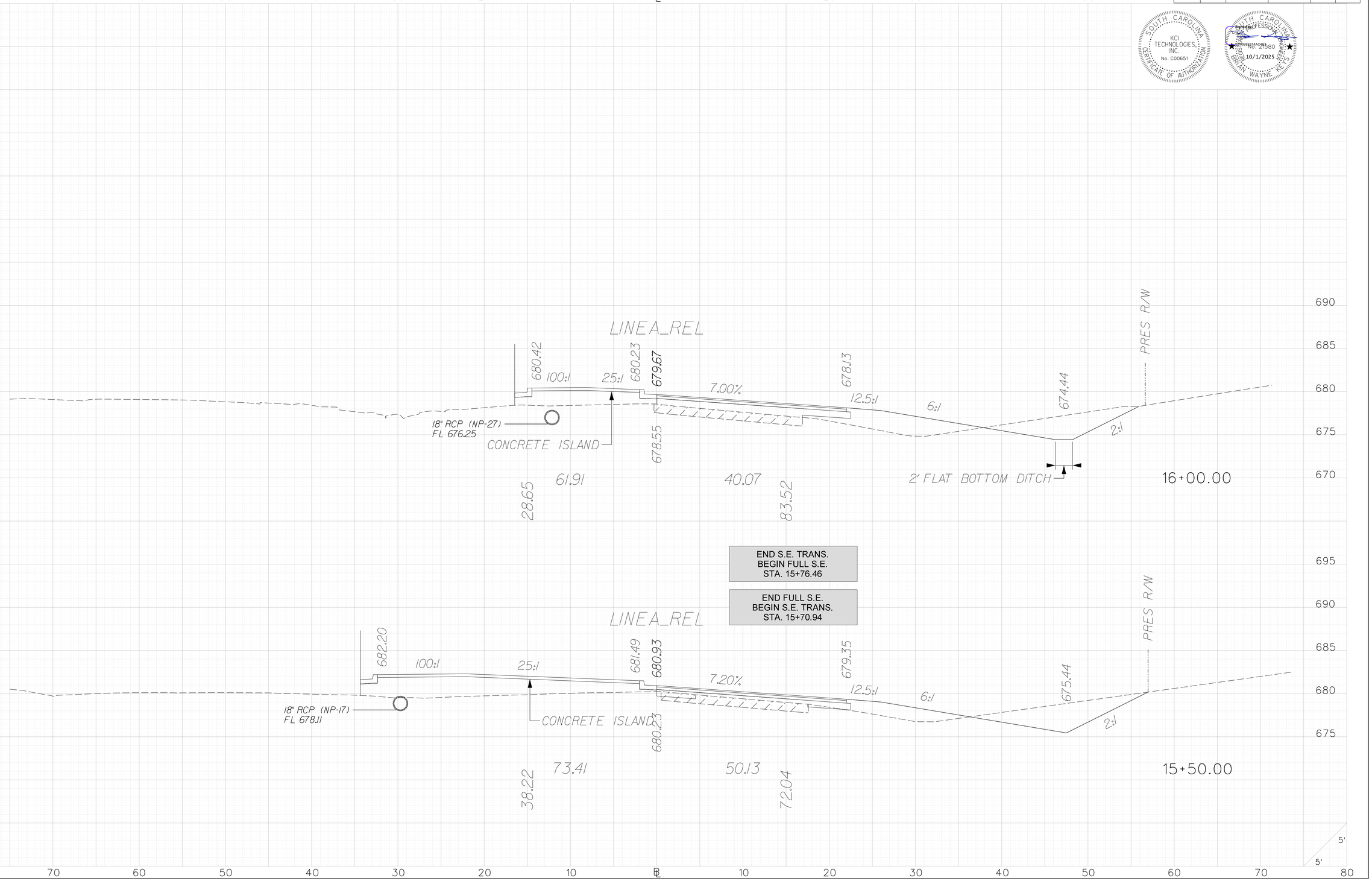
SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/29/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02. Working\Roadway\DGN\Cross Sections\Cross Section Sheets\LAY_XS_LINE_A.dgn

LINE A REL.

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X27

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — KCI TECHNOLOGIES, INC. No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER — REGISTRATION NO. 27580 — BRIAN WAYNE KEYS — 10/1/2025



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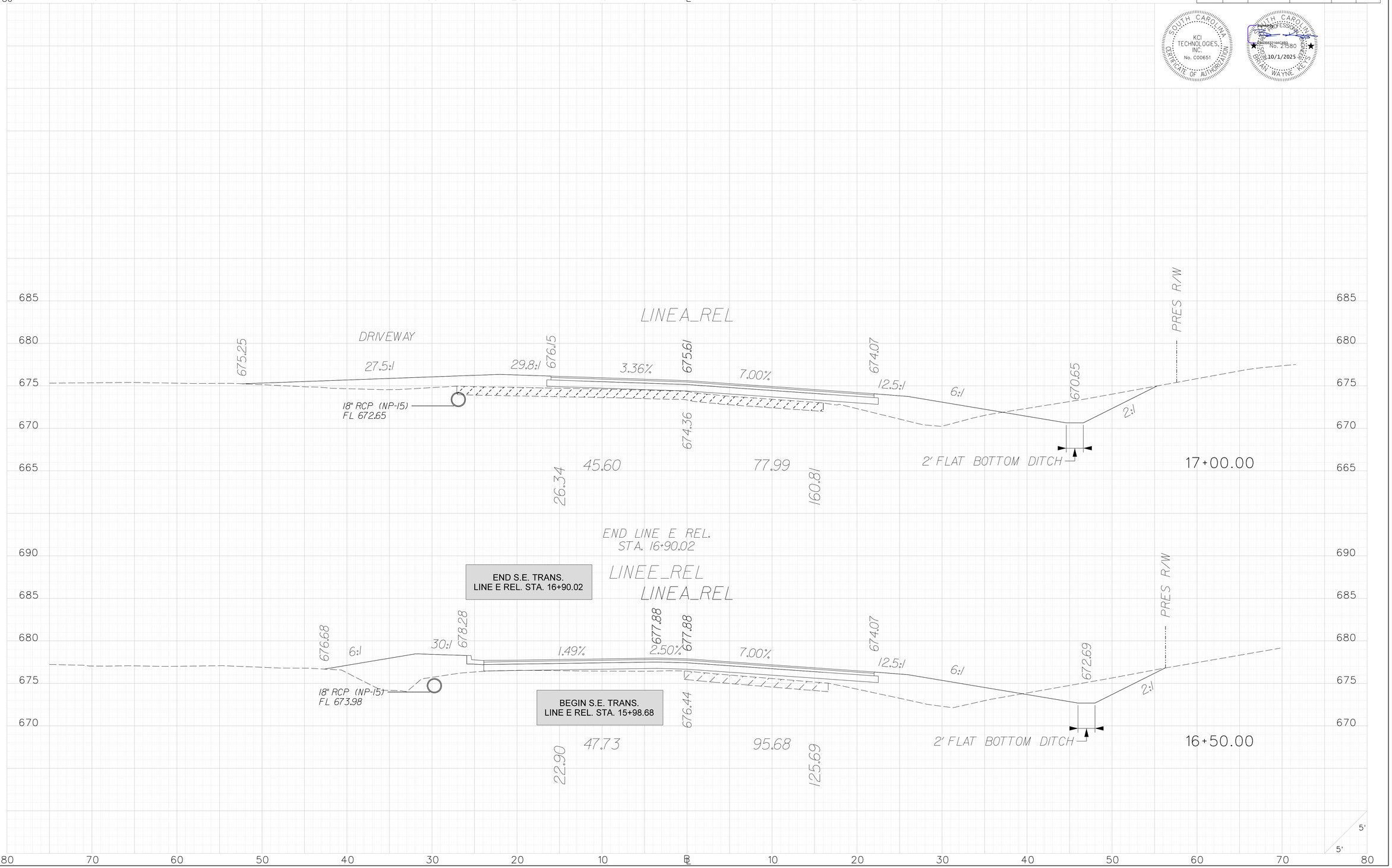
LINE A REL.

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X28

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
KCI TECHNOLOGIES, INC.
No. C00651

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
No. 21580
BRIAN WAYNE KEYS
10/1/2025



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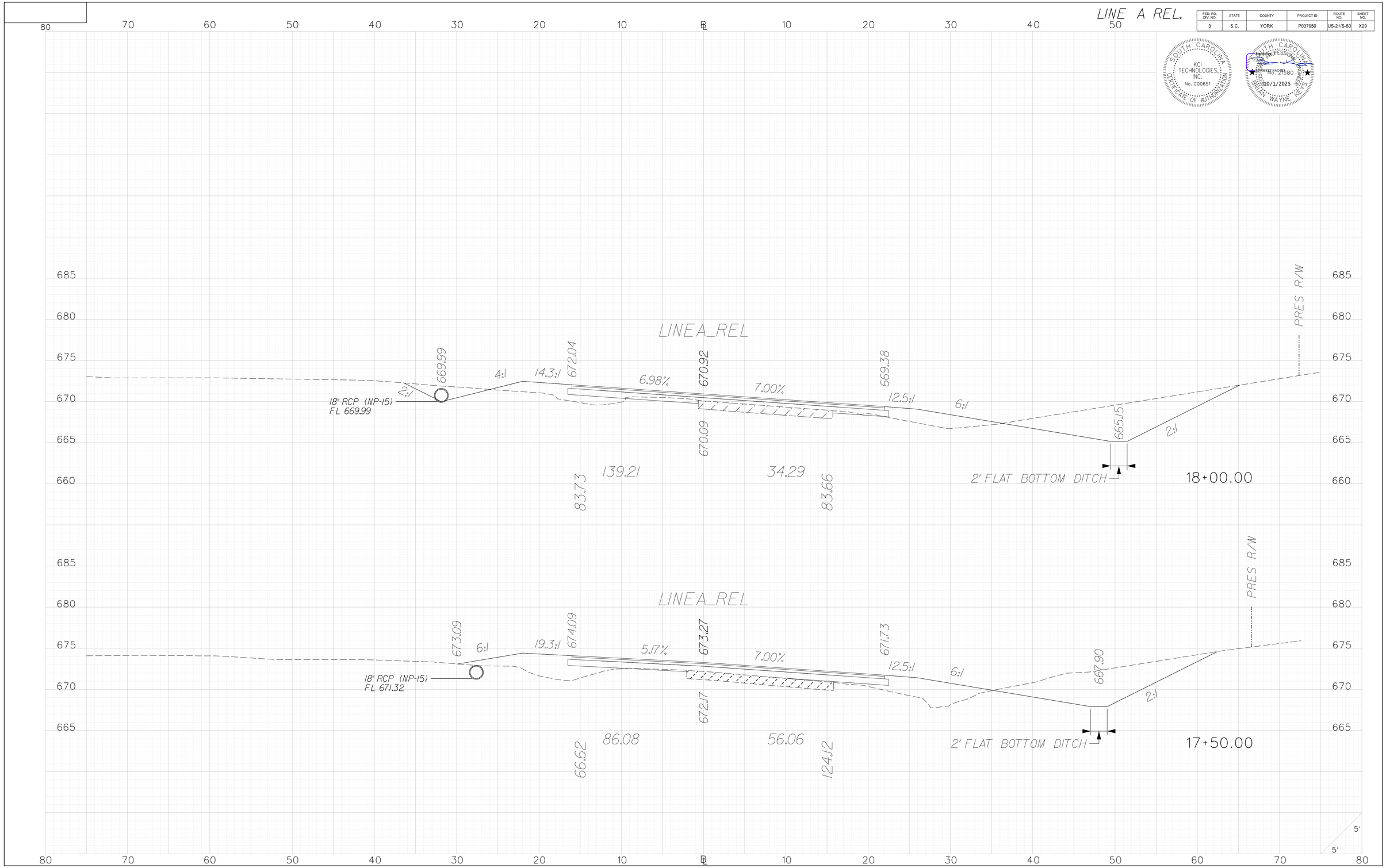
LINE A REL.

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X29

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION KCI TECHNOLOGIES, INC. No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER REGISTRATION NO. 27580 BRIAN WAYNE KEYS 10/1/2025



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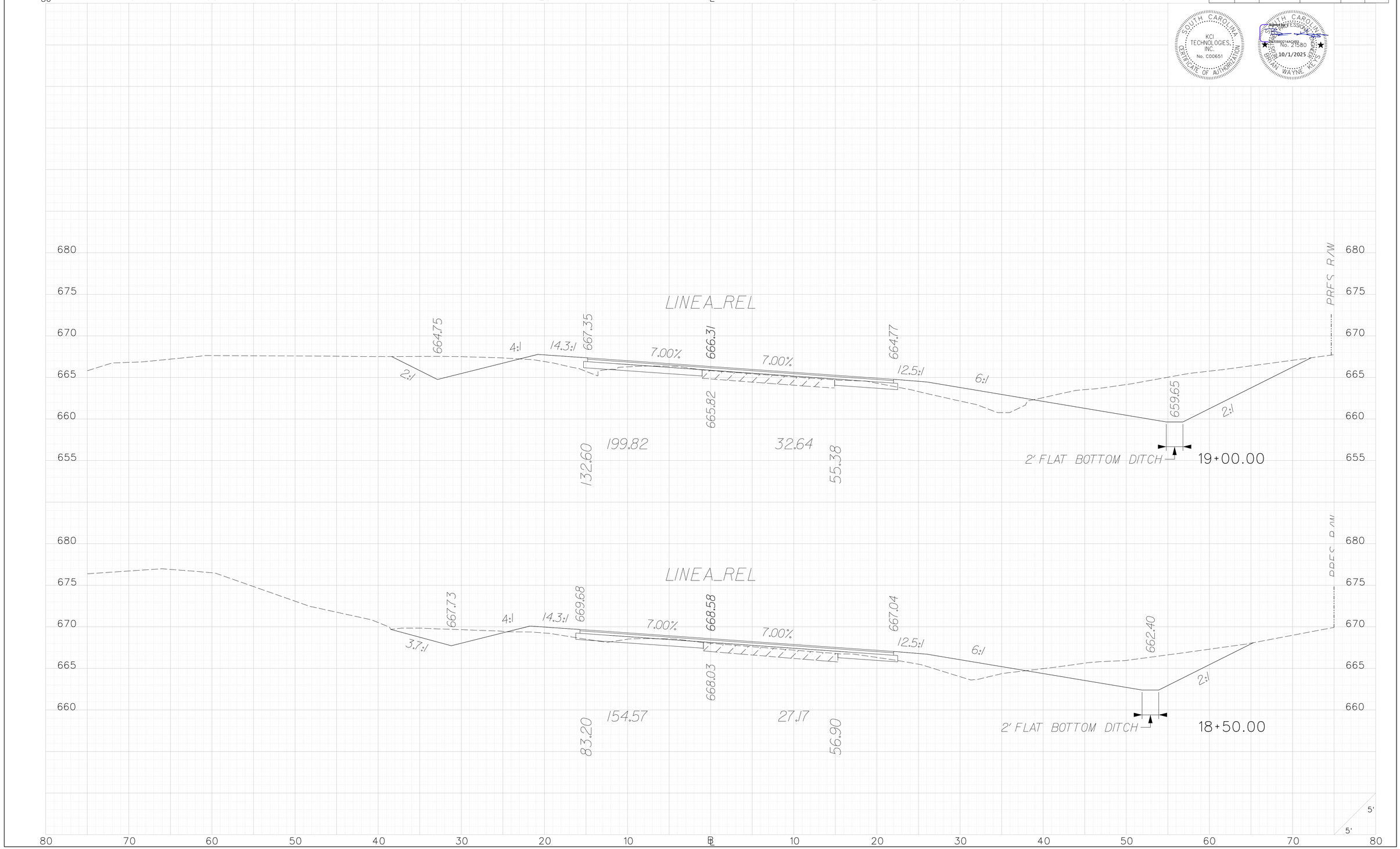
LINE A REL.

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X30

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
KCI TECHNOLOGIES, INC.
No. C00651

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
No. 21580
BRIAN WAYNE KEYS
10/1/2025



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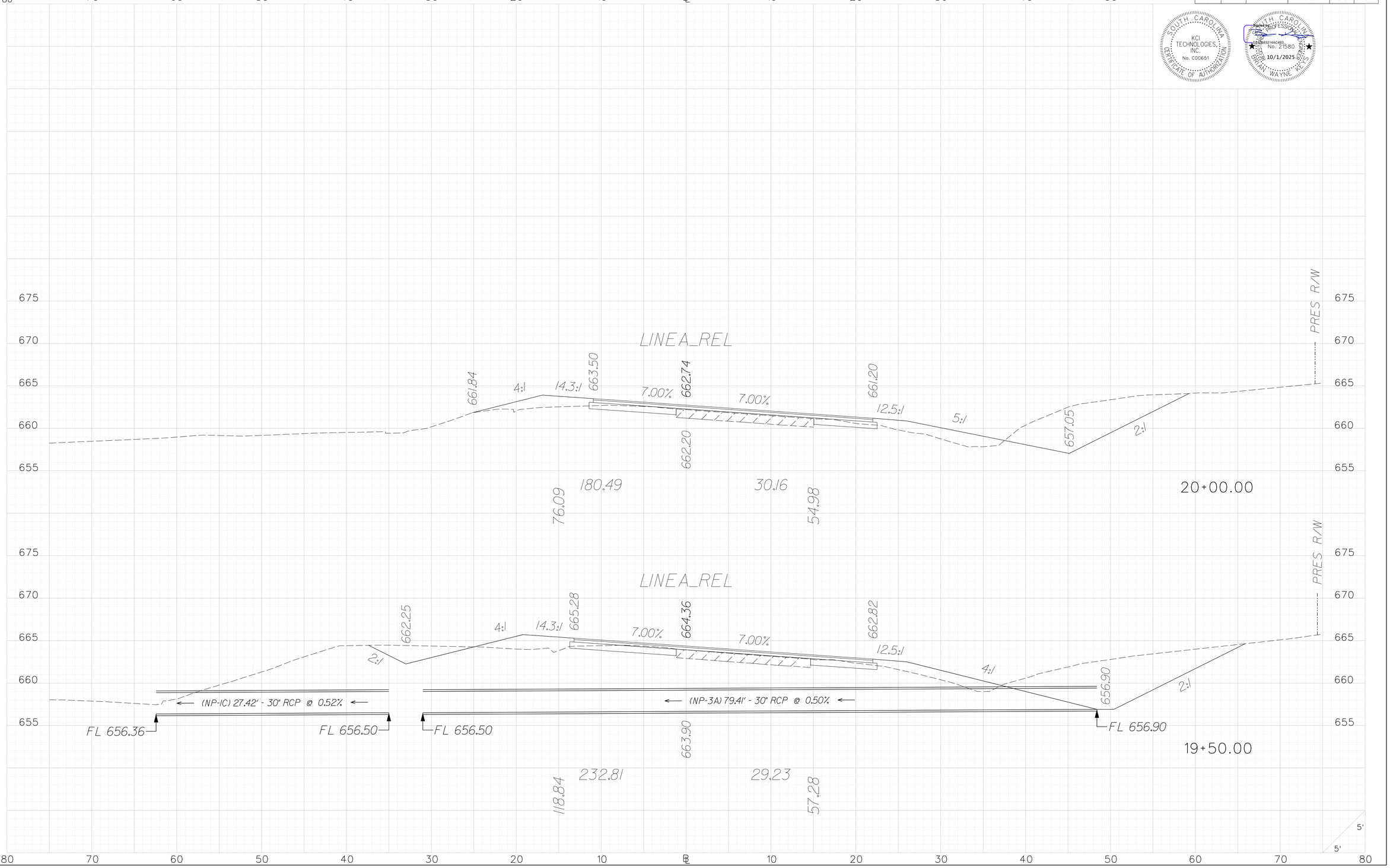
LINE A REL.

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X31

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
No. 21580
10/1/2025
BRIAN WAYNE KEY



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PLOTTED : 9/29/2025

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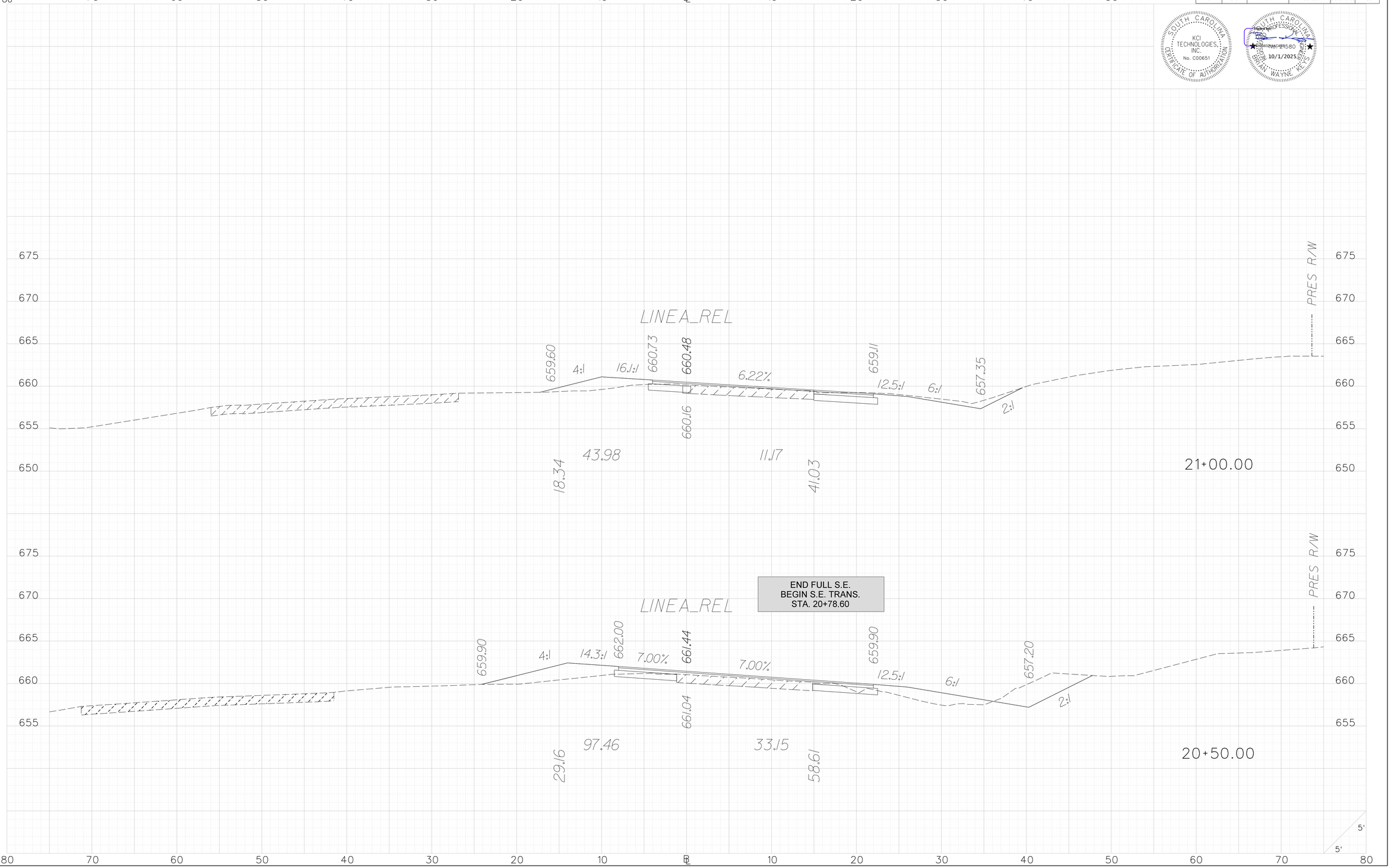
LINE A REL.

FED. RD. DRV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X32

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER
Signed by: BRIAN WAYNE KEYS
Date: 10/1/2025
BRIAN WAYNE KEYS
No. 21580



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LINE A REL.

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X33

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER
Registration No. 21580
10/1/2025
BRIAN WAYNE KEYS

END LINE A REL.
STA. 21+73.50
LINE A_REL

END S.E. TRANS.
STA. 21+73.50

659.58
658.81
658.38
MATCH EXISTING
12.5:1
659.58
21+73.50
11.23
0.00
7.74
0.77
PRES R/W
LINE A_REL
659.59
660.02
659.84
658.87
4:1
22.7:1
4.41%
12.5:1
6:1
657.55
2:1
659.77
33.70
1.76
18.06
11.97
21+50.00
5'
5'

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/29/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Cross Sections\Cross Section Sheets\LAY_XS_LINE_A.dgn

LINE B REL.

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X34

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
KCI TECHNOLOGIES, INC.
No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER SEAL
Registered Professional Engineer
No. 29580
10/1/2025
BRIAN WAYNE KEYS

END S.E. TRANS.
BEGIN FULL S.E.
STA. 17+05.32

LINE B REL.

671.64 4:1 674.21 674.23 12.5:1 4.00% 2.41% 674.62 674.68 2.00% 41.5:1 2:1

674.09 3.44 3.71 80.63 158.65 660.38

PRES R/W NEW R/W

17+00.00

BEGIN S.E. TRANS.
STA. 16+50.00

LINE B REL.

668.72 4:1 671.94 12.5:1 MATCH EXIST. 672.27 672.28 45:1 2:1

672.27

BEGIN LINE B REL.
STA. 16+50.00

CUT VOLUME 0.00
0.00 CUT AREA
90.72 FILL AREA
0.00 FILL VOLUME

656.80

PRES R/W NEW R/W

16+50.00

685 680 675 670 665 660

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

5' 5'

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Cross Sections\Cross Section Sheets\LAY_XS_LINE_B.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X35

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — KCI TECHNOLOGIES, INC. No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER — BRIAN WAYNE KEY — No. 27580 — 10/1/2025

LINE B REL.

685 680 675 670 665 690

676.04 678.57 678.73 679.05 679.17

12.5:1 4.00% 2.00% 2.00% 50:1

END S.E. TRANS.
STA. 17+89.76

675.01 10.97 12.89 341.25 504.17

PRES R/W 2:1 662.66 18+00.00 NEW R/W

LINE B REL.

675.77 676.44 676.55 676.97 677.08

4:1 12.5:1 4.00% 2.60% 2.60% 38.5:1

END FULL S.E.
BEGIN S.E. TRANS.
STA. 17+73.21

675.66 6.17 2.95 203.25 262.85

PRES R/W 2:1 661.67 17+50.00 NEW R/W

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

5' 5'

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Cross Sections\Cross Section Sheets\LAY_XS_LINE_B.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X36

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
KCI TECHNOLOGIES, INC.
No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER
BRIAN WAYNE KEYS
No. 27580
10/1/2025

LINE B REL.

690
685
680
675
670
665
660

4 1/2:1 | 12.5:1 | 4.00% | 2.00% | 2.00% | 50:1 | 2:1

681.20 | 681.30 | 681.62 | 681.74 | 665.73

PRES R/W | NEW R/W

19+00.00

3.21 | 11.70 | 668.24 | 707.18 | 1176.02

LINE B REL.

678.79 | 680.12 | 680.28 | 680.60 | 680.72 | 663.16

50:1 | 12.5:1 | 4.00% | 2.00% | 2.00% | 50:1 | 2:1

PRES R/W | NEW R/W

18+50.00

18.88 | 9.42 | 669.46 | 562.92 | 837.19

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

5' 5'

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

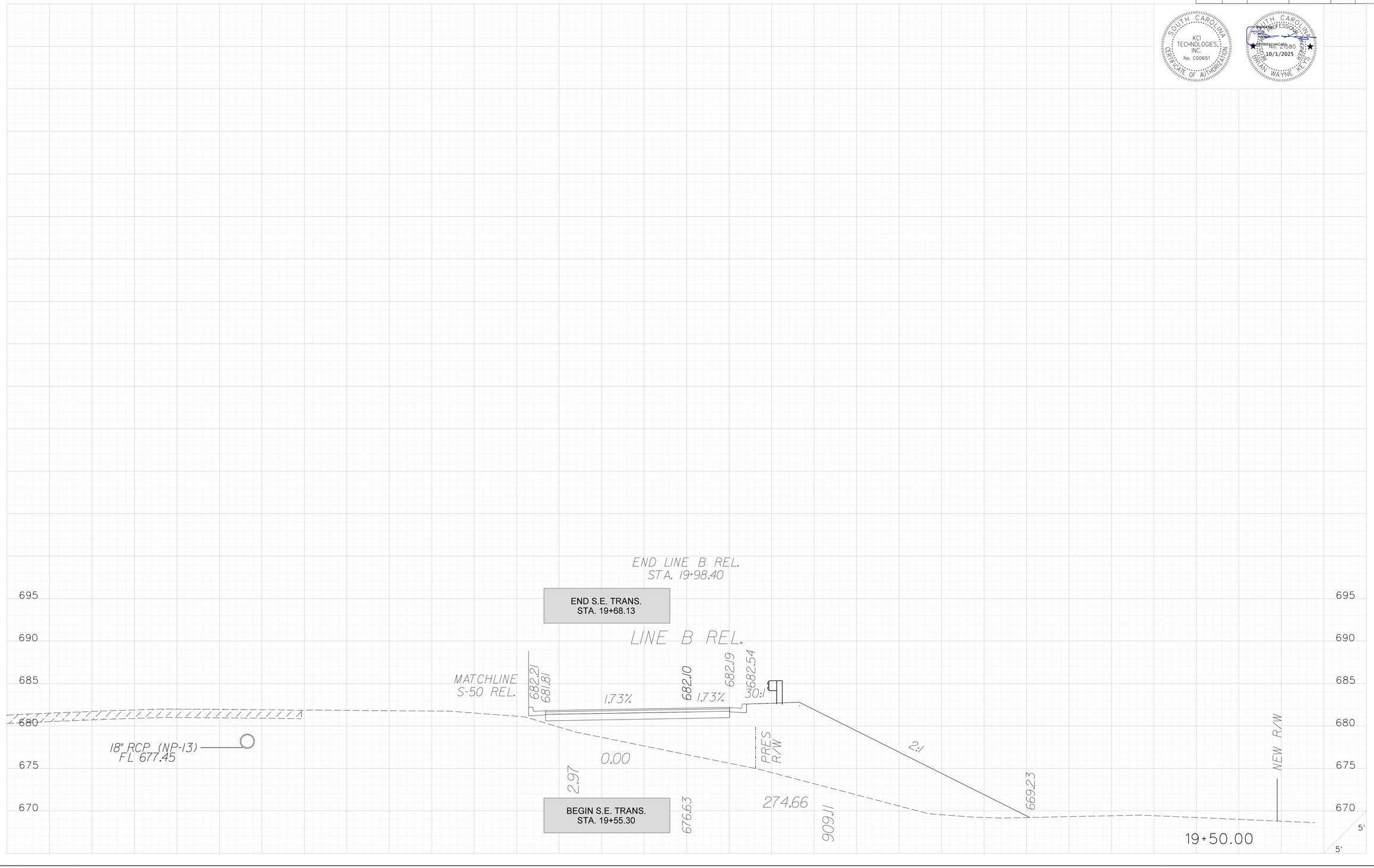
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02, Working\Roadway\DGN\Cross Sections\Cross Section Sheets\LAY_XS_LINE_B.dgn

LINE B REL.

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X37

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
Registered Engineer No. 21580
10/1/2025
BRIAN WAYNE KEYS



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PLOT DRIVER : pdf.pltcfg
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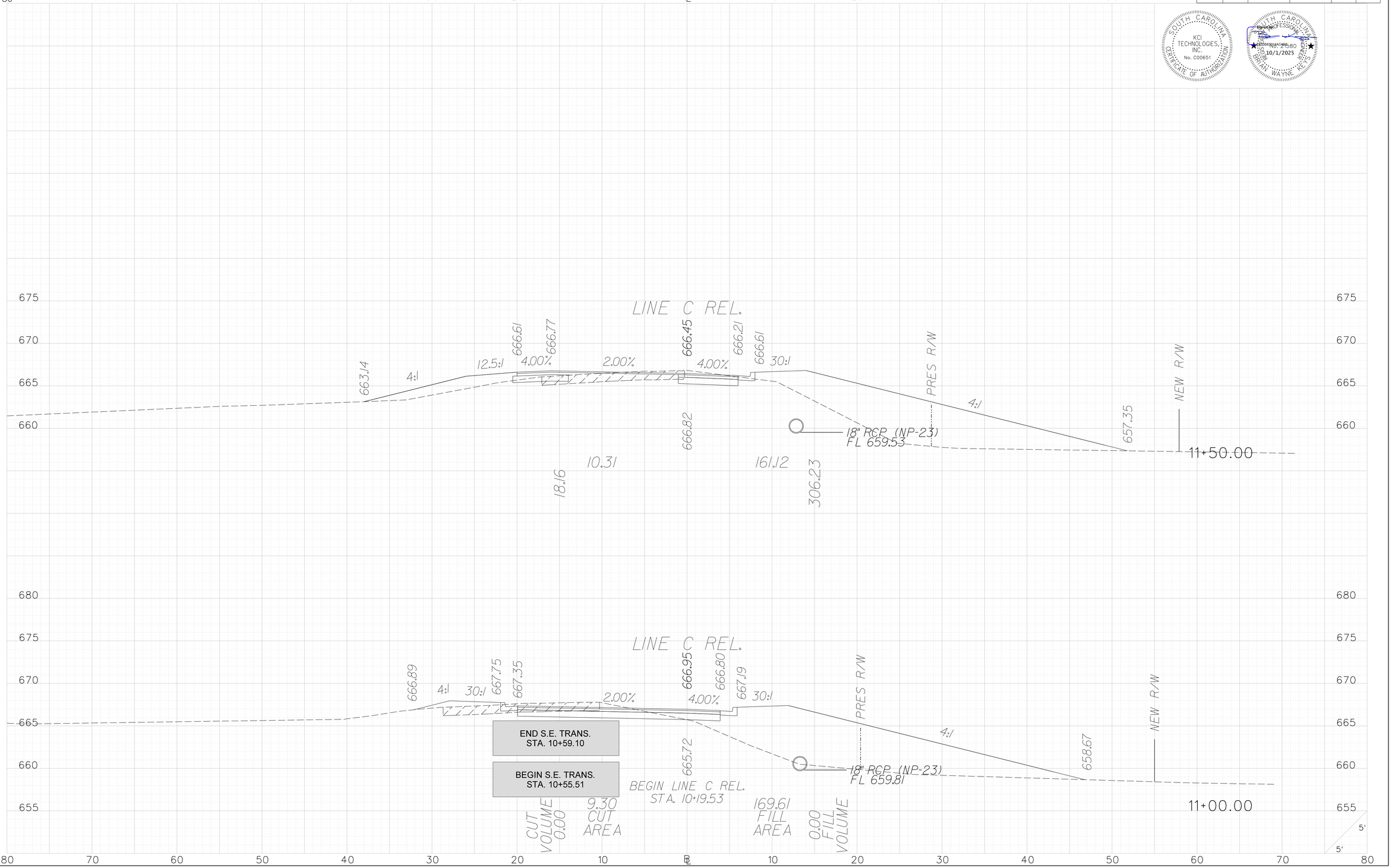
FED. RD. DRV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X38

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
BRIAN WAYNE KEYS
Number 24580
10/1/2025



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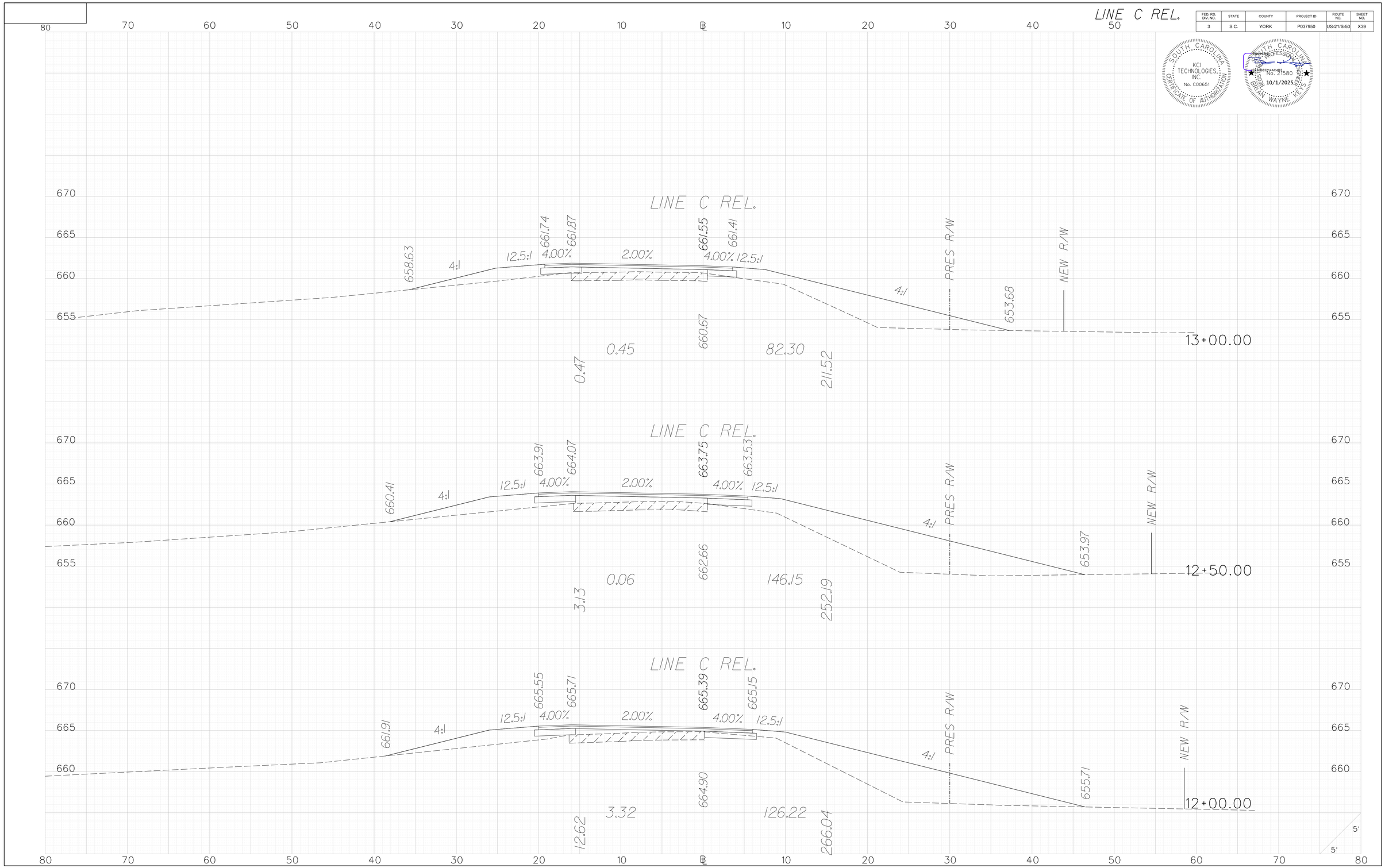
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X39



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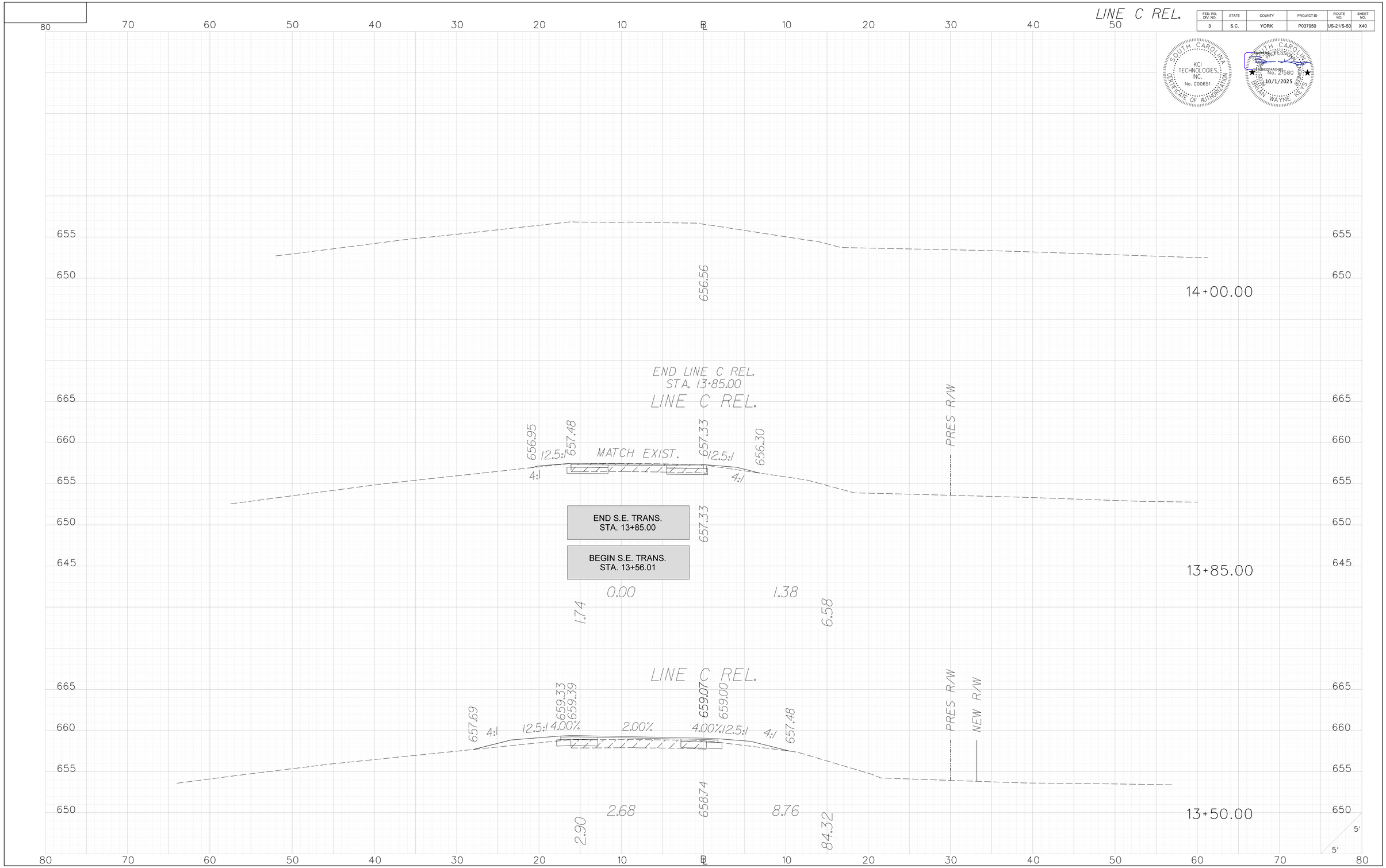
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION KCI TECHNOLOGIES, INC. No. C00651

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL No. 21580 BRIAN WAYNE KEY 10/1/2025

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X40



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PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
KCI TECHNOLOGIES, INC.
No. C00651

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
No. 21580
10/1/2025
BRIAN WAYNE KEYS

LINE D REL.

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X41

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — KCI TECHNOLOGIES, INC. No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 21580 — BRIAN WAYNE KEYS — 10/1/2025

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50

675 670 665 660 655

US-21

US 21 EB LINE D REL.

662.69 | 2.44% | 662.48 | 3.95% | 662.24 | 662.64 | 30:1 | 662.79 | 30:1 | 662.62 | 662.22 | 2.00% | 662.40

PRES R/W

COUNTY RD

MATCHLINE COUNTY RD

NEW R/W

CROSS SECTION IS CUT PERPENDICULAR TO LINE D REL. ℄.
US-21 EB AND COUNTY RD CROSS SLOPES ARE PERPENDICULAR TO ℄ LINE D REL.

0.00 | 662.38 | 3.40 | 8.35 | 50+18.96

0.00 | 127+00.38

127+00.00

US-21

US-21 EB LINE D REL.

662.71 | 2.50% | 662.60 | 4.01% | 662.36 | 662.75 | 50:1 | 4:1 | 662.25

PRES R/W | NEW R/W

4' SIDEWALK

CROSS SECTION IS CUT PERPENDICULAR TO LINE D REL. ℄.
US-21 EB AND COUNTY RD CROSS SLOPES ARE PERPENDICULAR TO ℄ LINE D REL.

0.00 | 662.50 | 5.63 | 9.65

0.30 | 126+50.19

126+50.00

US-21

US-21 EB LINE D REL.

662.49 | 4.03% | 662.24 | 662.64 | 50:1 | 4:1 | 662.15

PRES R/W | NEW R/W

4' SIDEWALK

CROSS SECTION IS CUT PERPENDICULAR TO LINE D REL. ℄.
US-21 EB AND COUNTY RD CROSS SLOPES ARE PERPENDICULAR TO ℄ LINE D REL.

BEGIN CONSTRUCTION
BEGIN MILLING AND RESURFACING
℄ US-21 STA. 125+12.56

662.49

126+00.01

CUT VOLUME 0.00 | 0.33 CUT AREA | BEGIN LINE D REL. STA. 126+00.00 | 4.80 FILL AREA | 0.00 FILL VOLUME

126+00.00

5' 5'

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
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LINE D REL.

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X42

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — KCI TECHNOLOGIES, INC. No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 21580 — 10/1/2025 — BRIAN WAYNE KEYS

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50

US-21 / US-21 EB / LINE D REL. / COUNTY RD

670 665 660 655

661.56 | 3.05% | 661.41 | 2.62% | 660.99 | 3.87% | 660.75 | 661.15 | 15.53:1 | 661.99 | 661.59 | 1.80% | 661.76

MATCHLINE COUNTY RD

PRES R/W

NEW R/W

18" RCP (NP-19)
FL 657.12

18" RCP (NP-4A)
FL 655.82

CROSS SECTION IS CUT PERPENDICULAR TO LINE D REL. ℄.
US-21 EB AND COUNTY RD CROSS SLOPES ARE PERPENDICULAR TO ℄ LINE D REL.

128+50.89 | 86.91 | 49.05 | 661.63 | 0.00 | 0.00 | 51+69.07

128+50.00

US-21 / US-21 EB / LINE D REL. / COUNTY RD

675 670 665 660 655

661.84 | 661.82 | 2.46% | 661.43 | 3.96% | 661.19 | 661.58 | 13.9:1 | 662.29 | 661.90 | 2.00% | 662.08

MATCHLINE COUNTY RD

PRES R/W

NEW R/W

18" RCP (NP-20)
FL 657.61

18" RCP (NP-21)
FL 658.25

CROSS SECTION IS CUT PERPENDICULAR TO LINE D REL. ℄.
US-21 EB AND COUNTY RD CROSS SLOPES ARE PERPENDICULAR TO ℄ LINE D REL.

128+00.73 | 55.97 | 44.81 | 662.27 | 0.01 | 0.86 | 51+18.78

128+00.00

US-21 / US-21 EB / LINE D REL. / COUNTY RD

675 670 665 660 655

662.19 | 2.47% | 661.88 | 3.98% | 661.64 | 662.03 | 22.5:1 | 662.47 | 662.07 | 2.00% | 662.25

MATCHLINE COUNTY RD

PRES R/W

NEW R/W

18" RCP (NP-20)
FL 658.09

18" RCP (NP-21)
FL 658.37

CROSS SECTION IS CUT PERPENDICULAR TO LINE D REL. ℄.
US-21 EB AND COUNTY RD CROSS SLOPES ARE PERPENDICULAR TO ℄ LINE D REL.

14.47 | 127+50.55 | 15.63 | 662.10 | 0.92 | 4.00 | 50+68.78

127+50.00

5' 5'

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

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PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X43

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION KCI TECHNOLOGIES, INC. No. C00651

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER BRIAN WAYNE KEY No. 28580 10/1/2025

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

670 665 660 655 650

US-21 US-21 EB LINE D REL. COUNTY RD

659.86 659.45 659.06 658.83 657.01 661.32 661.22

2.42% 2.42% 3.93% 12.5:1 6:1 6.046:1 88.8:1 1.13%

MATCHLINE COUNTY RD

CROSS SECTION IS CUT PERPENDICULAR TO LINE D REL. ℄. US-21 EB AND COUNTY RD CROSS SLOPES ARE PERPENDICULAR TO ℄ LINE D REL.

130+01.37

24" RCP (NP-6A) FL 652.06

662.14 188.62 126.72 13.28 12.43

24" RCP (NP-34) FL 652.91

53+22.42

130+00.00

670 665 660 655 650

US-21 US-21 EB LINE D REL. COUNTY RD

660.33 660.01 659.62 659.39 657.18 660.91 661.09

2.42% 2.42% 3.92% 12.5:1 6:1 6.18:1 13.1:1 1.88%

MATCHLINE COUNTY RD

CROSS SECTION IS CUT PERPENDICULAR TO LINE D REL. ℄. US-21 EB AND COUNTY RD CROSS SLOPES ARE PERPENDICULAR TO ℄ LINE D REL.

129+51.21

105.73 77.00 661.05 0.14 0.13

18" RCP (NP-33) FL 654.59

18" RCP (NP-4A) FL 655.01

52+71.79

129+50.00

670 665 660 655 650

US-21 US-21 EB LINE D REL. COUNTY RD

660.85 660.63 660.25 660.02 660.42 659.42 661.23 661.40

2.37% 2.37% 3.89% 30:1 6:1 6.16:1 13.2:1 1.79%

MATCHLINE COUNTY RD

CROSS SECTION IS CUT PERPENDICULAR TO LINE D REL. ℄. US-21 EB AND COUNTY RD CROSS SLOPES ARE PERPENDICULAR TO ℄ LINE D REL.

129+01.06

79.86 37.20 661.11 0.00 0.00

18" RCP (NP-33) FL 656.33

18" RCP (NP-4A) FL 655.41

52+20.38

129+00.00

5' 5'

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X44

KCI TECHNOLOGIES, INC. No. C00651 — SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION

REGISTERED PROFESSIONAL ENGINEER — BRIAN WAYNE KEY — No. 28360 — 10/1/2025

LINE D REL.

PRES R/W (US-21)

END S.E. TRANS.
BEGIN FULL S.E.
STA. 131+77.63

US-21 EB — LINE D REL.

657.83 — 3.17% — 657.09 — 12.5:1 — 657.60 — 40:1 — 657.50 — 2.50% — 4.80% — 656.73 — 4.80% — 656.44 — 12.5:1 — 655.12 — 6:1 — 2:1

131+54.55

4:1

CROSS SECTION IS CUT PERPENDICULAR TO LINE D REL. ℄.
US-21 EB AND COUNTY RD CROSS SLOPES ARE PERPENDICULAR TO ℄ LINE D REL.

24" RCP (NP-6A)
FL 651.53

BEGIN S.E. TRANS.
US-21 STA. 131+30.92

519.61 — 396.56 — 664.80 — 2.46 — 10.94

131+50.00

US-21 EB — LINE D REL.

658.59 — 2.38% — 658.00 — 2.99% — 657.52 — 4.00% — 657.28 — 12.5:1 — 656.95

MATCHLINE S-143

CROSS SECTION IS CUT PERPENDICULAR TO LINE D REL. ℄.
US-21 EB AND COUNTY RD CROSS SLOPES ARE PERPENDICULAR TO ℄ LINE D REL. 131+01.68

24" RCP (NP-6A)
FL 651.71

BEGIN S.E. TRANS.
STA. 130+86.59

663.99

285.13 — 164.63 — 9.36 — 17.54

131+00.00

US-21 — US-21 EB — LINE D REL. — COUNTY RD

659.20 — 2.41% — 658.70 — 2.40% — 658.31 — 658.08 — 3.90% — 12.5:1 — 6:1 — 656.91 — 6.085:1 — 26.2:1 — 661.86 — 3.88% — 661.50

MATCHLINE COUNTY RD

CROSS SECTION IS CUT PERPENDICULAR TO LINE D REL. ℄.
US-21 EB AND COUNTY RD CROSS SLOPES ARE PERPENDICULAR TO ℄ LINE D REL. 130+51.52

24" RCP (NP-6A)
FL 651.88

662.86

250.02 — 143.31 — 9.58 — 21.16

53+72.77

130+50.00

5' — 5'

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

665 660 655 650 675 670

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X45

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
KCI TECHNOLOGIES, INC.
No. C00651

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 21580
10/1/2025
BRIAN WAYNE KEYS

100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30

675 670 665 660 655 650 645

END CONSTRUCTION
END MILLING AND RESURFACING
℄ US-21 STA.133+13.70

US-21 EB

655.87 5.19% 12.5:1 6:1 653.36 4:1

30" RCP (NP-5A)
FL 651.31

CROSS SECTION IS CUT PERPENDICULAR TO LINE D REL. ℄.
US-21 EB AND COUNTY RD CROSS SLOPES ARE PERPENDICULAR TO ℄ LINE D REL.

132+66.56

PRES R/W (US-21)

LINE D REL.

657.86 17.2:1 5.80% 657.63 5.80% 656.70 5.80% 656.35 12.5:1 5:1 654.70 2:1

664.17 1117.40 666.05 0.58 0.84

132+50.00

PRES R/W (US-21)

END S.E. TRANS.
US-21 STA. 132+14.96

US-21 EB

656.93 5.13% 12.5:1 655.52 6:1 4:1

LINE D REL.

657.68 17.2:1 5.80% 657.45 5.80% 656.52 5.80% 656.17 12.5:1 6:1 654.85 2:1

665.79 867.87 540.74 0.32 2.57

CROSS SECTION IS CUT PERPENDICULAR TO LINE D REL. ℄.
US-21 EB AND COUNTY RD CROSS SLOPES ARE PERPENDICULAR TO ℄ LINE D REL.

132+09.56

132+00.00

5' 5'

100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
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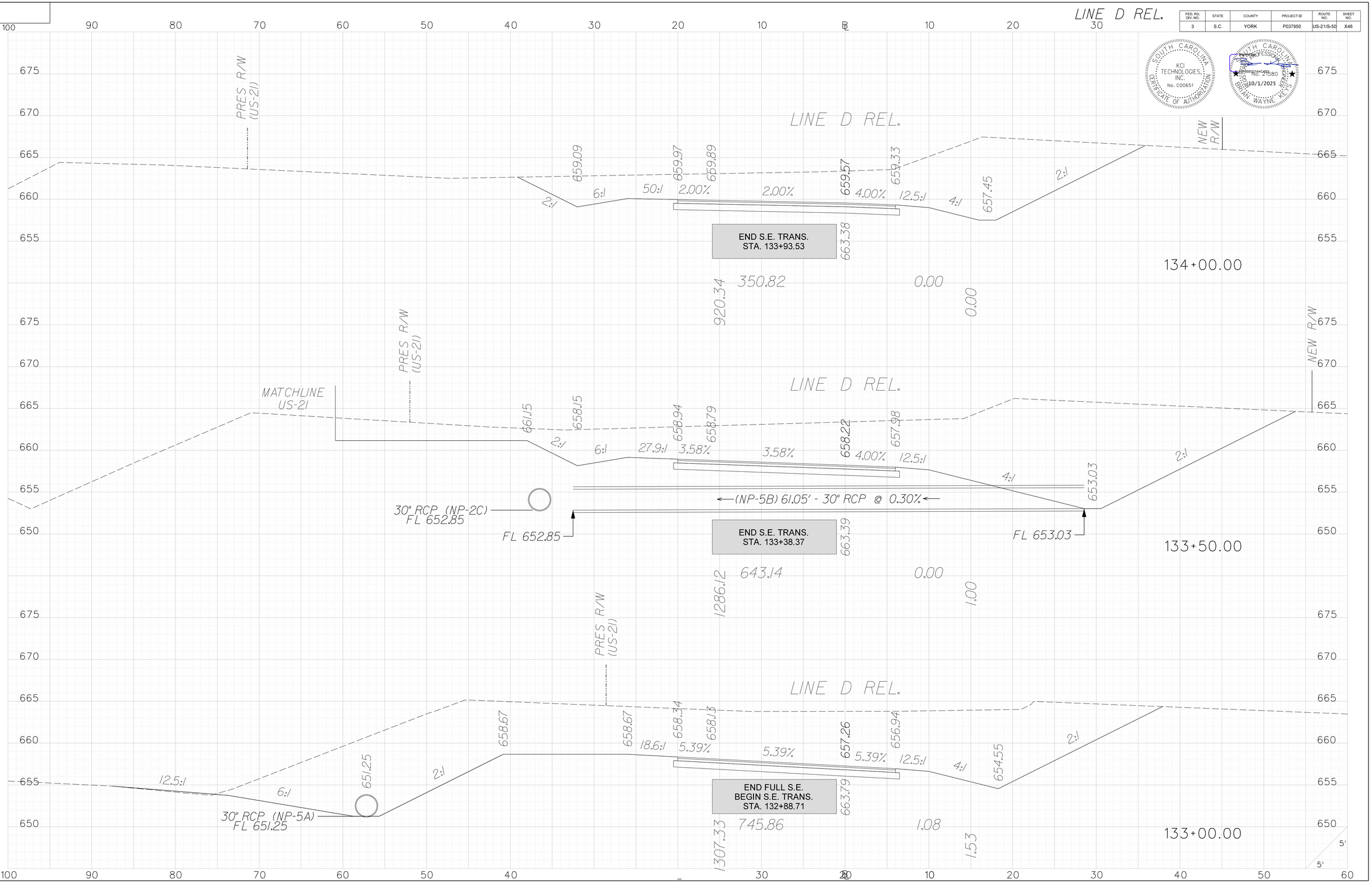
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X46

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION KCI TECHNOLOGIES, INC. No. C00651

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 21380 BRIAN WAYNE KEY 10/1/2025



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FED. RD. DRV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X47

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — KCI TECHNOLOGIES, INC. No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER — BRIAN WAYNE KEYS — REGISTRATION NO. 27580 — 10/1/2025

LINE D REL.

NEW R/W

135+50.00

664.79 | 4:1 | 38.5:1 | 666.25 | 666.06 | 4.73% | 4.73% | 665.31 | 4.73% | 665.02 | 12.5:1 | 6:1 | 663.70 | 2:1

670.82

483.31 | 233.79 | 7.92 | 7.34

LINE D REL.

NEW R/W

135+00.00

662.59 | 2:1 | 4:1 | 50:1 | 663.97 | 663.85 | 2.92% | 2.92% | 663.38 | 4.00% | 663.14 | 12.5:1 | 5:1 | 661.62 | 2:1

BEGIN S.E. TRANS.
STA. 134+74.64

669.96

577.48 | 288.19 | 0.00 | 0.00

LINE D REL.

NEW R/W

134+50.00

660.32 | 2:1 | 4:1 | 50:1 | 661.70 | 661.62 | 2.00% | 2.00% | 661.30 | 4.00% | 661.06 | 12.5:1 | 4:1 | 659.24 | 2:1

665.65

635.47 | 335.48 | 0.00 | 0.00

5'
5'

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

680 675 670 665 660 655

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
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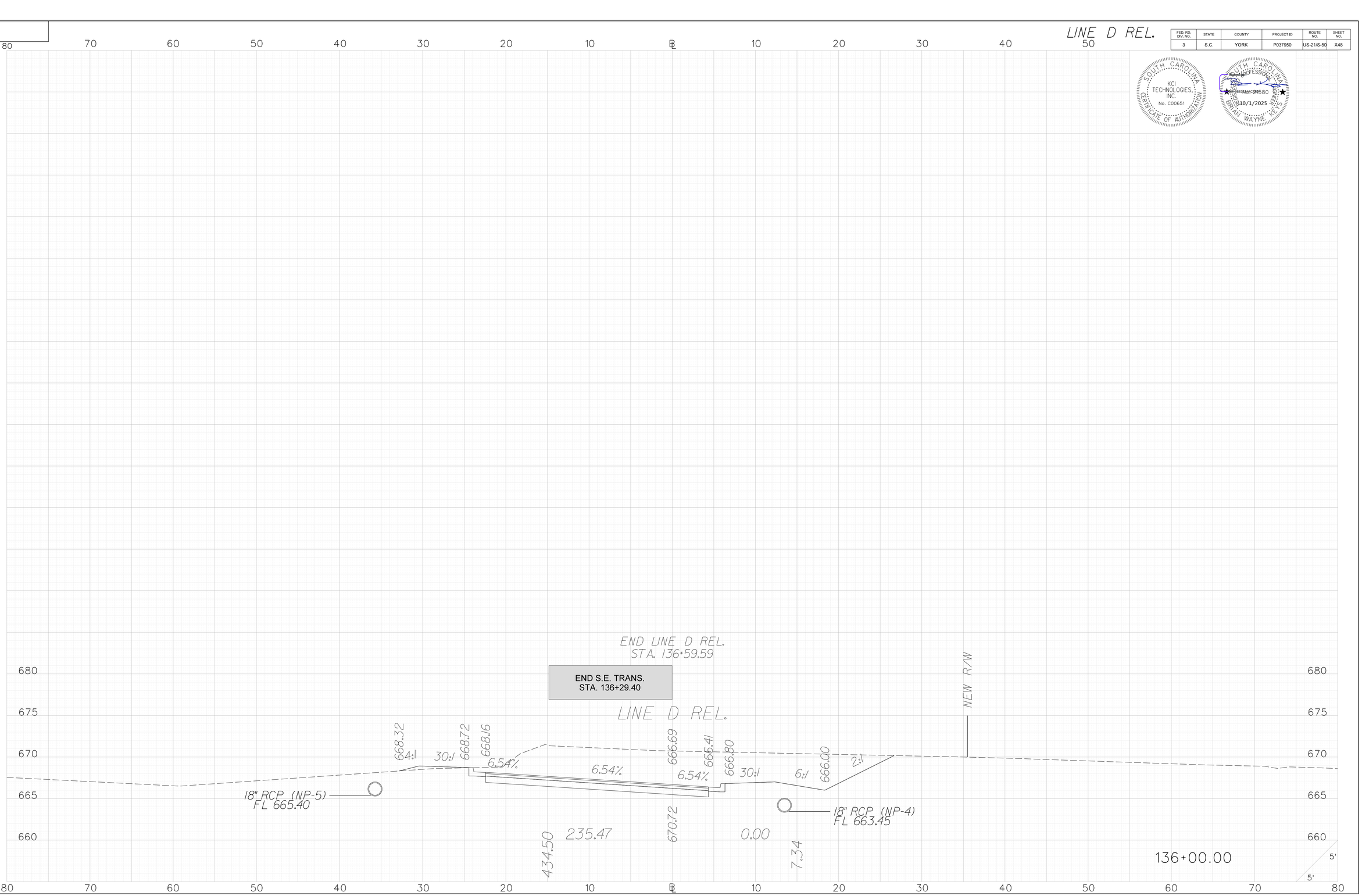
FED. RD. DRV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X48

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
BRIAN WAYNE KEYS
Registered Professional Engineer
10/1/2025



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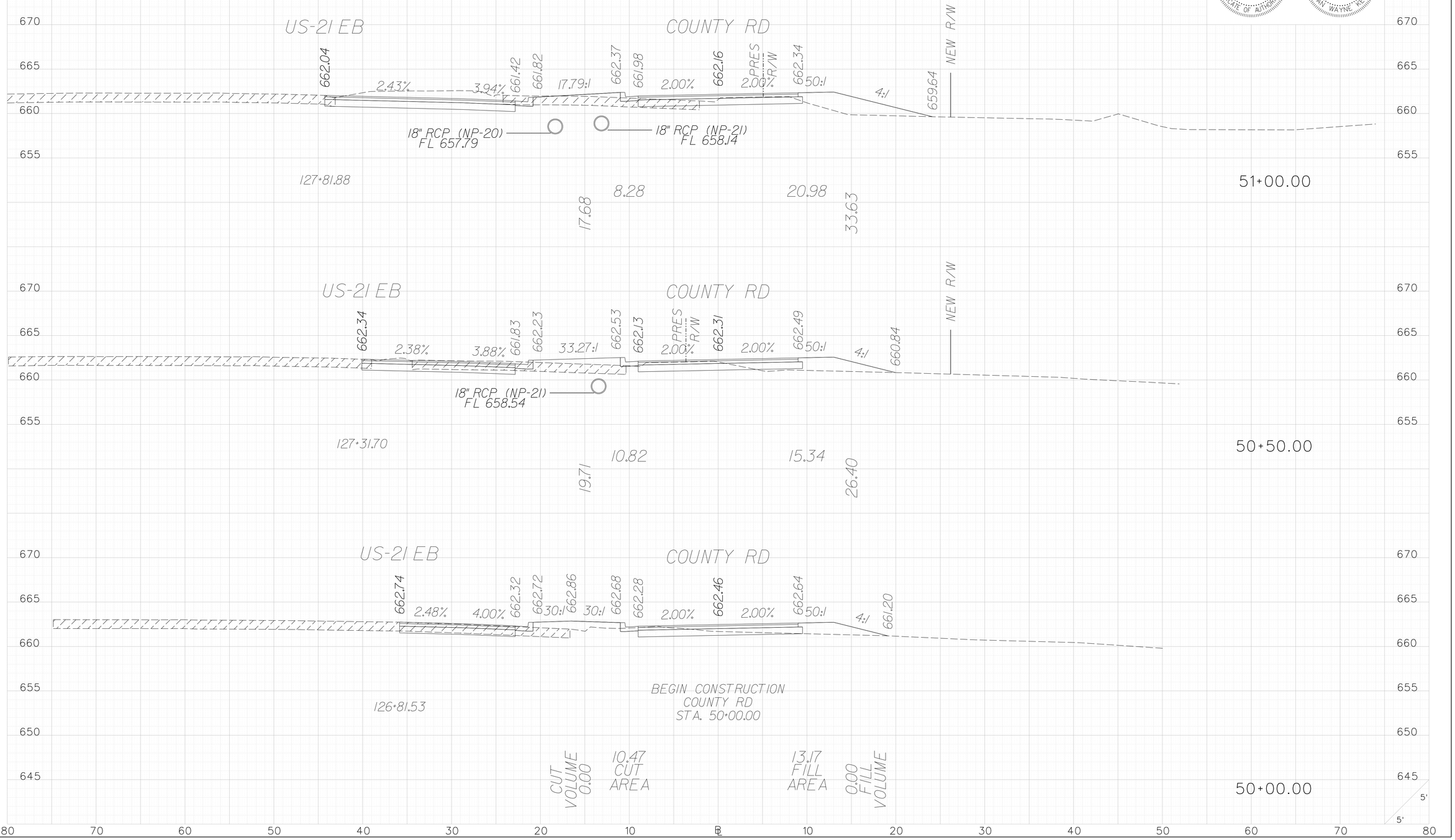
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X49

COUNTY RD

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION KCI TECHNOLOGIES, INC. No. C00651

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL No. 21580 BRIAN WAYNE KEYS 10/1/2025



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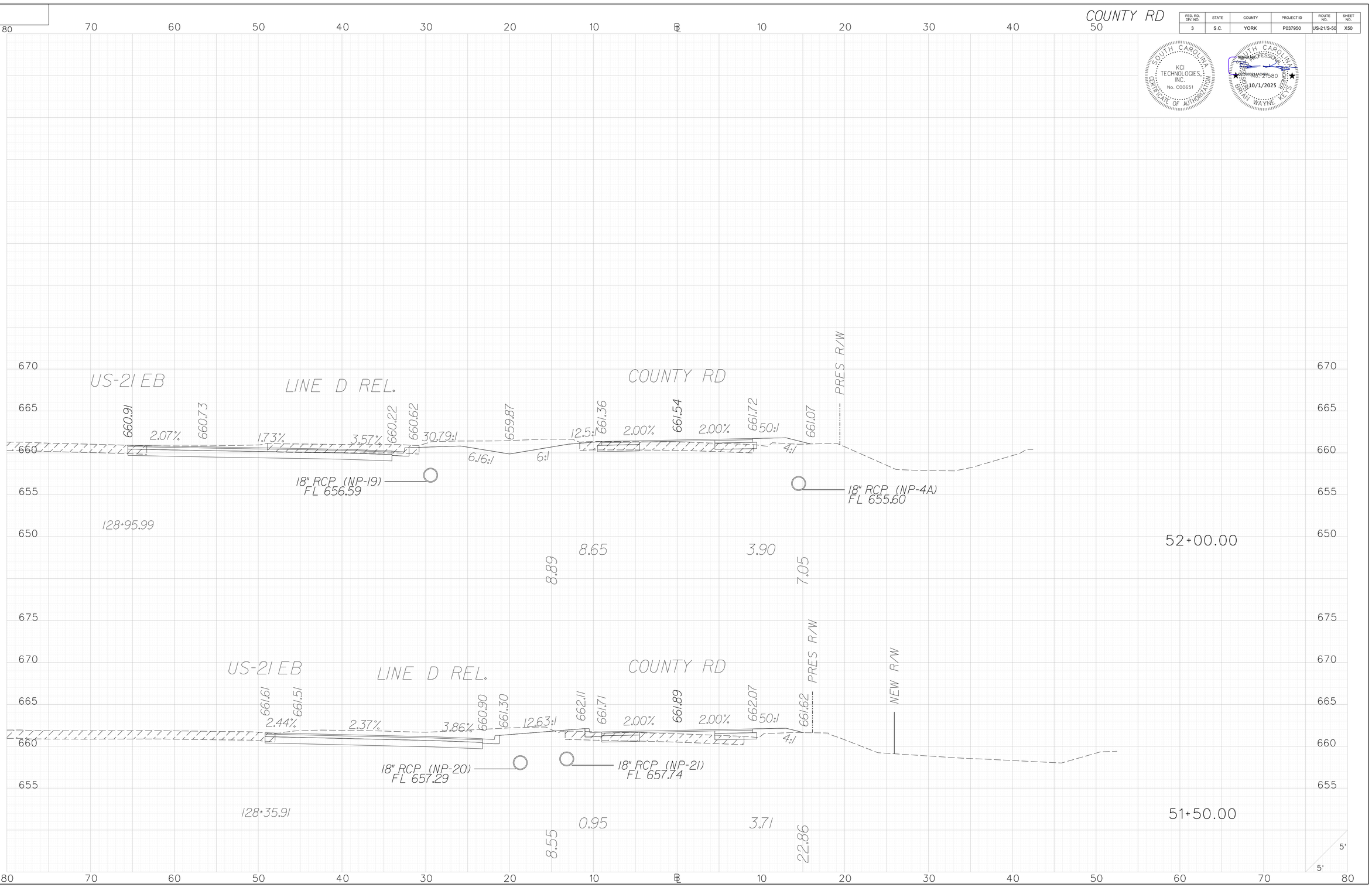
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X50

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — KCI TECHNOLOGIES, INC. No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER — BRIAN WAYNE KEYS — No. 27580 — 10/1/2025



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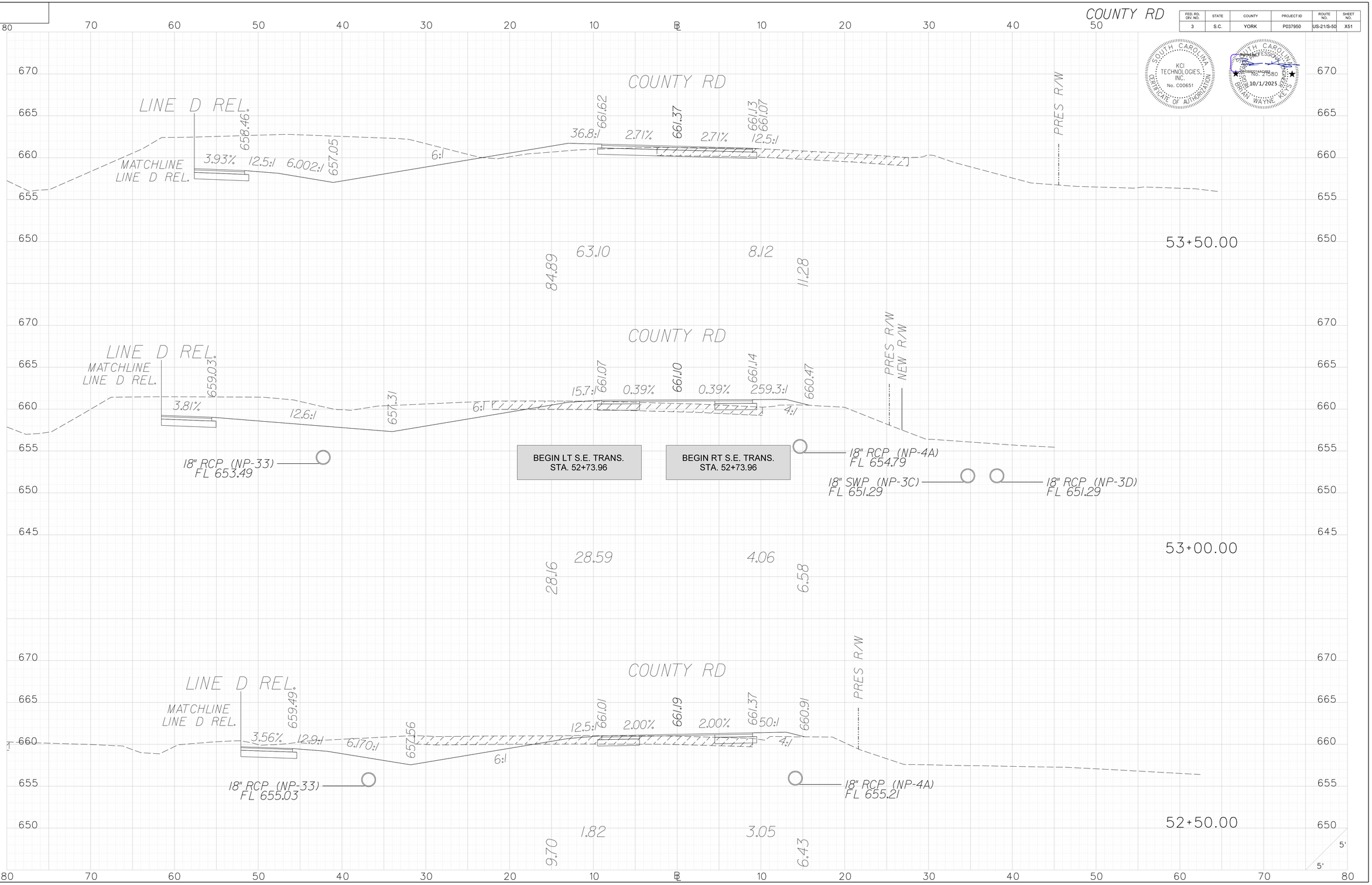
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X51

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
KCI TECHNOLOGIES, INC.
No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER
BRIAN WAYNE KEYS
No. 21580
10/1/2025



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PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\20192519037862\ Working\Roadway\DGN\Cross Sections\Cross Section Sheets\LAY_XS_COUNTY_RD.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X52

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER
Registered No. 21580
10/1/2025
BRIAN WAYNE KEYS

COUNTY RD

LINE D REL.

MATCHLINE COUNTY RD

3.07%

13.4:1

6.4|3:1

6:1

20:1

5.00%

5.00%

30:1

END CONSTRUCTION
COUNTY RD
STA. 53+92.33

COUNTY RD

657.45

656.00

661.86

661.61

661.21

660.88

END LT S.E. TRANS.
STA. 53+86.87

END RT S.E. TRANS.
STA. 53+86.87

164.62

146.91

15.70

18.67

53+92.33

5'

5'

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

675 670 665 660 655 650 645

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Cross Sections\Cross Section Sheets\LAY_XS_COUNTY_RD.dgn

US-21

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X53

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 28580
10/1/2025
BRIAN WAYNE KEY

50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110

675 670 665 660 655 650 645 640 635 630

US-21 WB
US-21
US-21 EB

654.54
26.01
120.00
0.01
1.22
12.5:1
6:1
650.95
2:1
30" RCP (NP-2C)
FL 650.95

134+00.00

US-21 WB
US-21
US-21 EB

654.80
CUT VOLUME 0.00
161.90 CUT AREA
1.30 FILL AREA
0.00 FILL VOLUME
12.5:1
6:1
651.10
2:1
660.31
MATCHLINE LINE D REL.
5'
5'

133+50.00

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\20192519037862\ WorkingIRoadwayIDGN\Cross Sections\Cross Section Sheets\LAY_XS_US21.dgn

US-21

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X54

SOUTH CAROLINA
KCI TECHNOLOGIES, INC.
No. C00651
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 21580
10/1/2025
BRIAN WAYNE KEYS

50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

US-21 WB | US-21 | US-21 EB

670
665
660
655
650
645

653.35
57.31
18.11
0.12
0.19
12.5:1
6:1
650.65
2:1
135+00.00

653.83
151.65
43.79
0.08
0.09
12.5:1
6:1
650.80
2:1
134+50.00

5'
5'

50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Cross Sections\Cross Section Sheets\LAY_XS_US21.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X55

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION KCI TECHNOLOGIES, INC. No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER BRIAN WAYNE KEY No. 27180 10/1/2025

US-21 WB

140+00.00	0.00	277.08	571.46	3:1	4:1
139+50.00	0.00	340.10	688.38	3:1	4:1
139+00.00	0.45	403.36	1560.97	3:1	4:1

140+00.00	8.75' FLAT BOTTOM DITCH
139+50.00	8.46' FLAT BOTTOM DITCH
139+00.00	8.78' FLAT BOTTOM DITCH

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\20192519037862\ WorkingRoadway\DGN\Cross Sections\Cross Section Sheets\LAY_XS_US21.dgn

US-21

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X56

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION KCI TECHNOLOGIES, INC. No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER BRIAN WAYNE KEYS No. 27080 10/1/2025

130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30

660 655 650 645 640

US-21 WB

3:1 4:1 647.43

5.99' FLAT BOTTOM DITCH

274.04 117.99 0.00 0.00

141+50.00

US-21

646.73

US-21 EB

660 655 650 645

US-21 WB

3:1 4:1 647.70

7.91' FLAT BOTTOM DITCH

390.75 177.97 0.00 0.00

141+00.00

US-21 WB

3:1 4:1 647.98

8.81' FLAT BOTTOM DITCH

482.52 244.04 0.00 0.00

140+50.00

5' 5'

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Cross Sections\Cross Section Sheets\LAY_XS_US21.dgn

US-21

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X57

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION KCI TECHNOLOGIES, INC. No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER BRIAN WAYNE KEY No. 27580 10/1/2025

130 120 110 100 90 80 70 60 50 40 30 20 10 ℄

660 655 650 645 640

US-21 WB | US-21 | US-21 EB

646.58

3:1 4:1

6.90' FLAT BOTTOM DITCH

70.53 | 22.55 | 0.00 | 0.59 | 645.04

143+00.00

US-21 WB | US-21 | US-21 EB

646.84

3:1 4:1

8.32' FLAT BOTTOM DITCH

125.49 | 53.63 | 0.64 | 0.59 | 645.57

142+50.00

US-21 WB | US-21 | US-21 EB

647.15

3:1 4:1

4.28' FLAT BOTTOM DITCH

185.09 | 81.91 | 0.00 | 0.00 | 646.05

142+00.00

5' 5'

130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

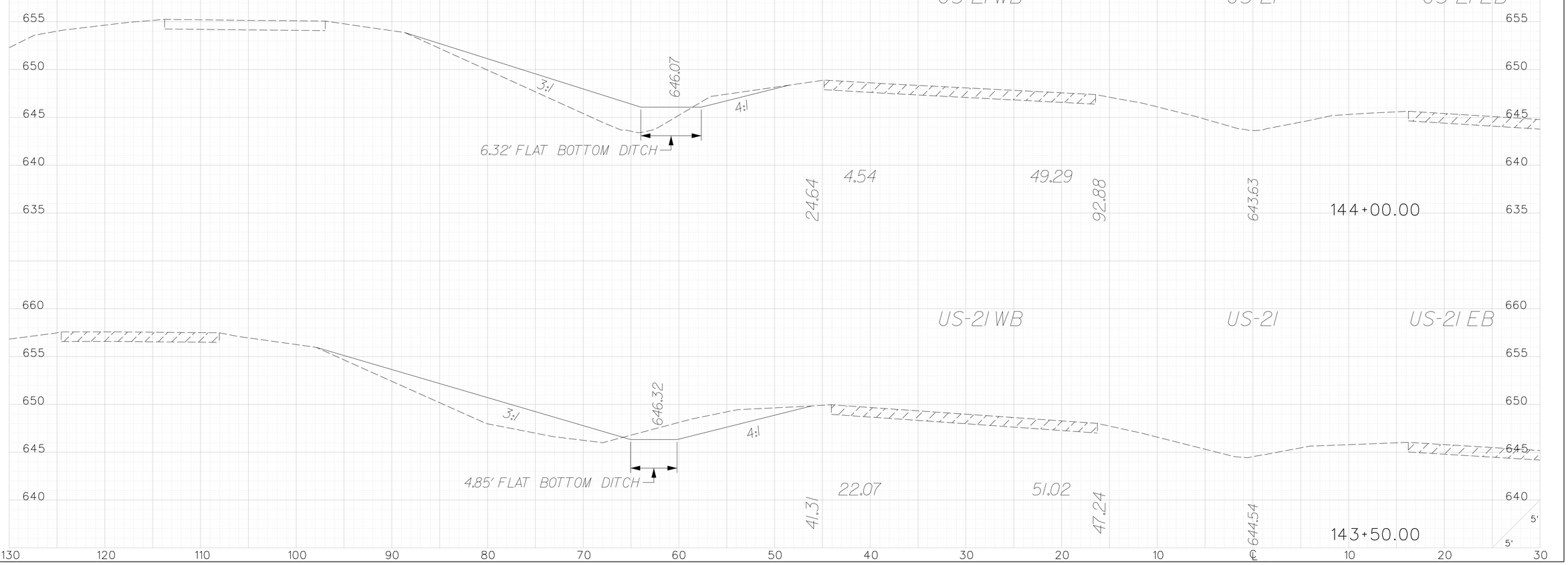
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Cross Sections\Cross Section Sheets\LAY_XS_US21.dgn

US-21

FED. RD. DRV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	X58

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION KCI TECHNOLOGIES, INC. No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER BRIAN WAYNE KEY 10/1/2025



SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025

PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
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S-50 CROSSLINE PIPES

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	XP1

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — KCI TECHNOLOGIES, INC. No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER — Registration No. 21580 — 10/1/2025 — BRIAN WAYNE KEYS

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

CROSS SECTION IS CUT THROUGH THE CENTERLINE OF THE PIPE. SLOPES AND WIDTHS ARE EXAGGERATED.

S-50 REL.

679.58 | 6:1 | 30.001:1 | 681.09 | 680.70 | 2.04% | 681.00 | 2.04% | 681.34 | 681.90 | 631.236:1 | 681.41 | 4.165:1

(NP-8) 37.35' - 18" RCP @ 1.1%

FL 676.50 — FL 676.10

679.59

138+40.82

CROSS SECTION IS CUT THROUGH THE CENTERLINE OF THE PIPE. SLOPES AND WIDTHS ARE EXAGGERATED.

S-50 REL.

NEW R/W | PRES R/W | 2.010:1 | 661.94 | 6.031:1 | 30.156:1 | 664.93 | 664.54 | 2.05% | 664.80 | 1.94% | 664.57 | 664.97 | 30.031:1 | 4.004:1 | 662.93 | PRES R/W | NEW R/W

(NP-1) 29.98' - 18" RCP @ 0.30%

FL 660.62 — FL 660.53

663.70

131+65.24

CROSS SECTION IS CUT THROUGH THE CENTERLINE OF THE PIPE. SLOPES AND WIDTHS ARE EXAGGERATED.

S-50

PRES R/W | MATCHLINE S-143 (CATAWBA CHURCH RD) | 660.20 | 7.018:1 | 15:1 | 663.97 | 1.79% | 664.30 | 1.96% | 663.98 | 13.8:1 | 6.601:1 | 662.69 | PRES R/W

(NP-1A) 87.33' - 18" RCP @ 0.49%

FL 660.20 — FL 660.63

663.79

130+33.35

5' 5'

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\20192519037862. Working\Roadway\DGN\Cross Sections\Pipe XS\XS Sheets\LAY_XS_S50_Pipe.dgn

S-143 CROSSLINE PIPE

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	XP2

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
KCI TECHNOLOGIES, INC.
No. C00651

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
No. 27580
BRIAN WAYNE KEYS
10/1/2025

CROSS SECTION IS CUT THROUGH THE CENTERLINE OF THE PIPE. SLOPES AND WIDTHS ARE EXAGGERATED.

S-143

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

675
670
665
660
655

PRES R/W

2.008:1 658.69 2.008:1 6.023:1 12.458:1

→ (NP-4B) 51.62' - 18" RCP @ 4.26% →

FL 658.69

661.71

FL 656.49

NEW R/W

18+13.99

5'
5'

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\20192519037862. Working\Roadway\DGN\Cross Sections\Pipe XS\XS Sheets\LAY_XS_RD_143_Pipe.dgn

LINE A REL. CROSSLINE PIPE

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	XP3

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
KCI TECHNOLOGIES, INC.
No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 27580
10/1/2025
BRIAN WAYNE KEYS

CROSS SECTION IS CUT THROUGH THE CENTERLINE OF THE PIPE. SLOPES AND WIDTHS ARE EXAGGERATED.

LINE A REL.

LINE E REL.

677.18 6.986:1 34.943:1 679.25 678.85 0.65% 678.98 679.40 31.7:1 679.58 679.02 4.28% 677.96 14.6:1 7.002:1 675.83 674.15 2.329:1

(NP-16) 25.99' - 18" RCP @ 2.31%

FL 674.28

FL 674.88

CONCRETE ISLAND

677.67

16+24.02

16+19.96

690 685 680 675 670

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

5' 5'

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/23/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\2. Working\Roadway\DGN\Cross Sections\Pipe XS\XS Sheets\LAY_XS_LINE_A_Pipe.dgn

LINE B REL. CROSSLINE PIPE

FED. RD. DRV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	XP4

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
KCI TECHNOLOGIES, INC.
No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 21580
10/1/2025
BRIAN WAYNE KEYS

CROSS SECTION IS CUT THROUGH THE CENTERLINE OF THE PIPE. SLOPES AND WIDTHS ARE EXAGGERATED.

LINE B REL.

MATCHLINE S-50 REL.

681.98

682.20

682.17

682.56

1.39%

34.08:1

PRES R/W

2.272:1

673.85

NEW R/W

19+73.73

18" RCP (NP-3)
FL 677.82

FL 677.82

(NP-II) 42.58' - 18" RCP @ 0.50%

678.18

FL 678.03

690
685
680
675

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

5'
5'

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02. Working\Roadway\DGN\Cross Sections\Pipe XS\XS Sheets\LAY_XS_LINE_B_Pipe.dgn

LINE C REL. CROSSLINE PIPE

FED. RD. DRV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	XP5

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — KCI TECHNOLOGIES, INC. No. C00651

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL — BRIAN WAYNE KEYS — No. 21580 — 10/1/2025

CROSS SECTION IS CUT THROUGH THE CENTERLINE OF THE PIPE. SLOPES AND WIDTHS ARE EXAGGERATED.

LINE C REL.

MATCHLINE S-50 REL.

667.39

2.09%

666.90

666.87

667.25

34.748:1

PRES R/W

4.633:1

661.76

NEW R/W

(NP-26) 36.71' - 18" RCP @ 10.00%

FL 663.76

FL 660.09

662.56

10+52.48

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

680 675 670 665 660 655

5'
5'

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02. Working\Roadway\DGN\Cross Sections\Pipe XS\XS Sheets\LAY_XS_LINE_C_Pipe.dgn

LINE C REL. CROSSLINE PIPE

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	XP6

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION KCI TECHNOLOGIES, INC. No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER BRIAN WAYNE KEYS No. 27380 10/1/2025

CROSS SECTION IS CUT THROUGH THE CENTERLINE OF THE PIPE. SLOPES AND WIDTHS ARE EXAGGERATED.

LINE C REL.

665.95 666.10 665.77 665.53 665.92

12.5:1 3.93% 2.07% 4.07% 30.015:1

4.002:1 4.002:1

PRES R/W

(NP-22) 110.82' - 18" RCP @ 0.30%

FL 659.00 FL 659.33

665.50

11+84.75

680 675 670 665 660 655

110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50

5' 5'

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\20192519037862\ WorkingRoadwayDGN\Cross Sections\Pipe XS\XS Sheets\LAY_XS_LINE_C_Pipe.dgn

LINE D REL. CROSSLINE PIPE

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	XP7

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
KCI TECHNOLOGIES, INC.
No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER
Registered Number 21580
10/1/2025
BRIAN WAYNE KEYS

CROSS SECTION IS CUT THROUGH THE CENTERLINE OF THE PIPE. SLOPES AND WIDTHS ARE EXAGGERATED.

US-21 EB

LINE D REL.

COUNTY RD

MATCHLINE COUNTY RD

659.90
2.51%
659.48
2.51%
659.08
658.84
4.00%
12.5:1
6.02:1
656.98
6.01 4:1
75.5%
661.33
1.33%
661.19

24" RCP (EP-1)
FL 654.06
129+97.06

(NP-34) 34.79' - 24" RCP @ 2.44%

FL 652.06
662.12
FL 652.91

53+26.04
129+98.47

670
665
660
655
650

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

5'
5'

SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\20192519037862. Working\Roadway\DGN\Cross Sections\Pipe XS\XS Sheets\LAY_XS_LINE_D_Pipe.dgn

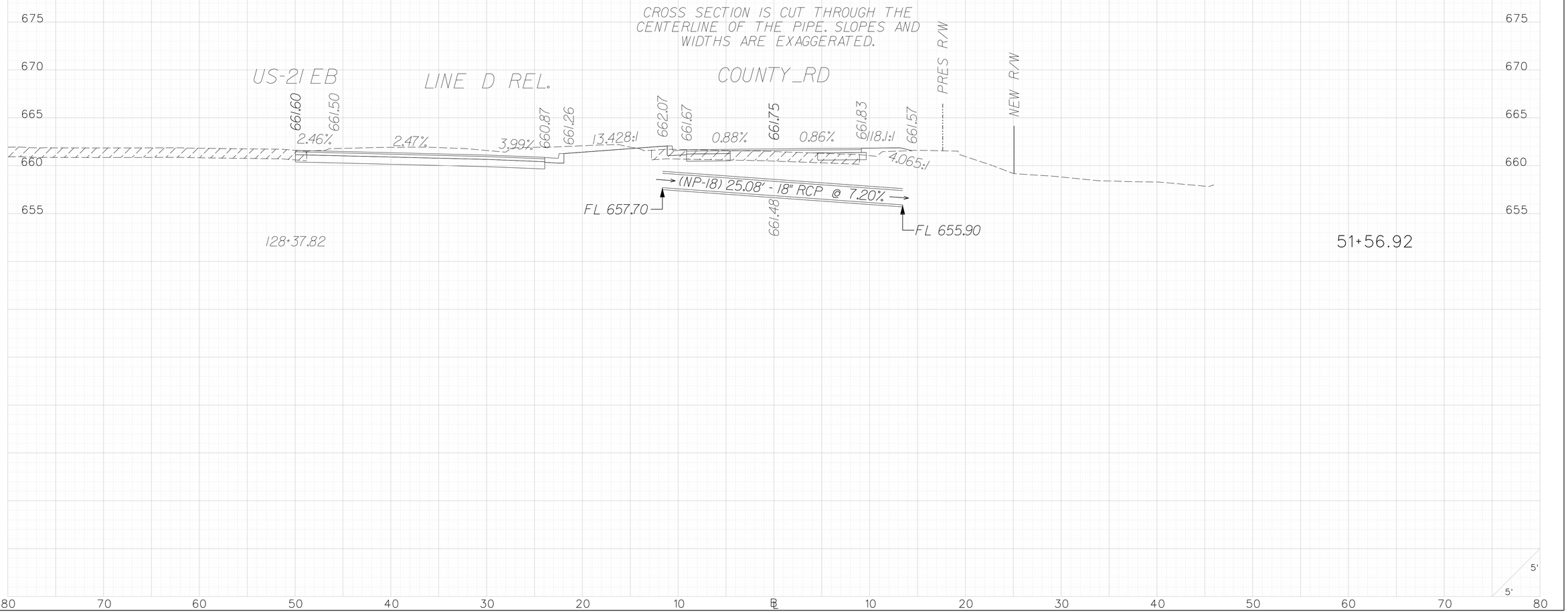
COUNTY ROAD CROSSLINE PIPE

FED. RD. DRV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	XP8

SOUTH CAROLINA — KCI TECHNOLOGIES, INC. No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER — Signature — No. 21580 — Date 10/1/2025 — BRIAN WAYNE KEY

CROSS SECTION IS CUT THROUGH THE CENTERLINE OF THE PIPE. SLOPES AND WIDTHS ARE EXAGGERATED.



SCALE : 5.000 ft / in.
PLOT DRIVER : pdf.pltcfg
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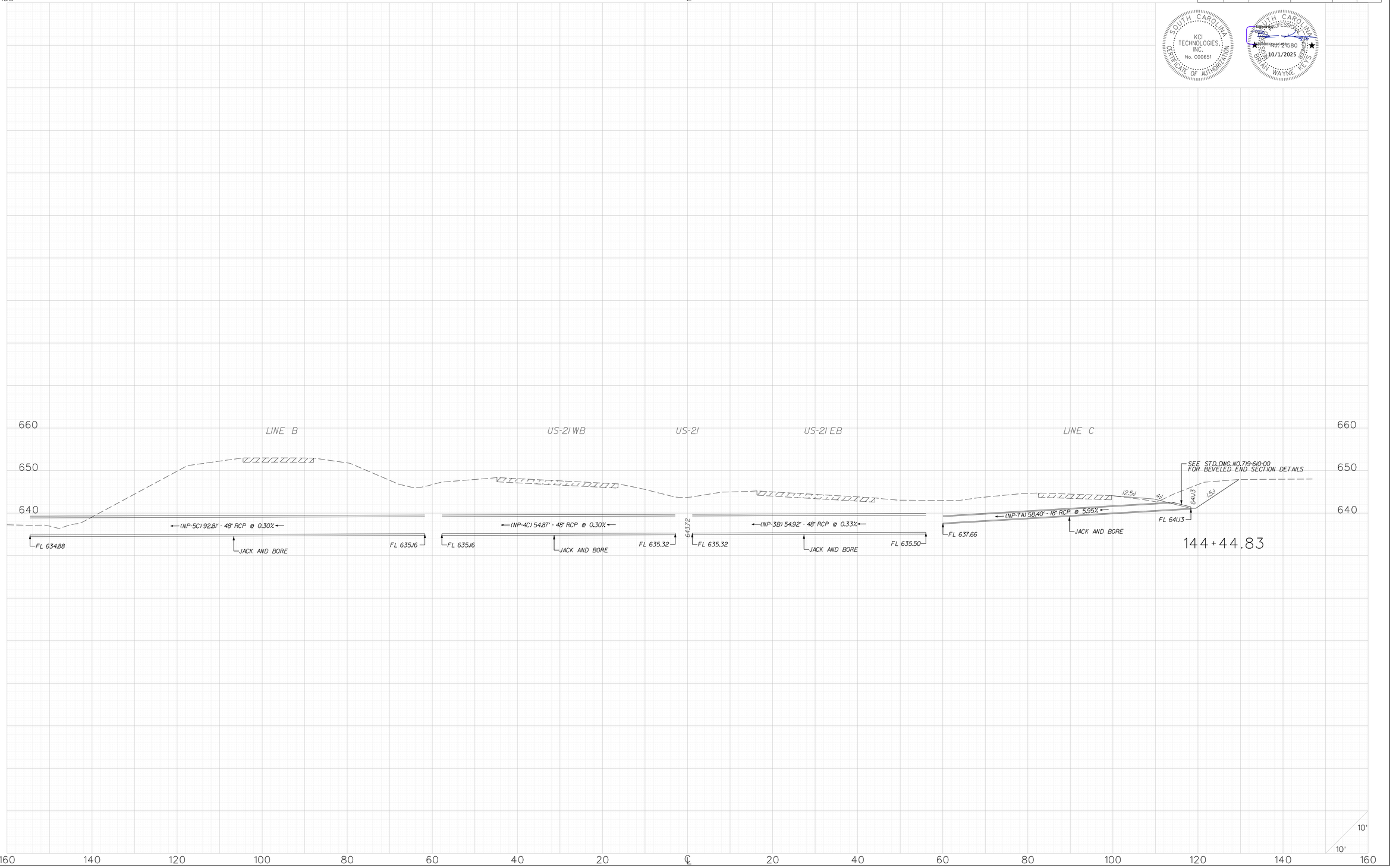
US-21 CROSSLINE PIPE

FED. RD. DRV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P037950	US-21/S-50	XP9

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION KCI TECHNOLOGIES, INC. No. C00651

SOUTH CAROLINA PROFESSIONAL ENGINEER BRIAN WAYNE KEYS Registration No. 21580 10/1/2025



SCALE : 10.000 ft / in.
PLOT DRIVER : pdf.pltcfg
PLOTTED : 9/15/2025
PEN TABLE : SCDOT Levels 2015 B&W Plan.tbl
FILE : pw:\\kci-pw.bentley.com:kci-pw-02\Documents\Projects\2019\25190378\02. Working\Roadway\DGN\Cross Sections\Pipe XS\XS Sheets\LAY_XS_US21_Pipe.dgn