

UTILITY OWNER INFORMATION	
<b>WATER/SEWER</b> TOWN OF LEXINGTON ALLEN LUTZ alutz@lexsc.com	<b>WATER/SEWER</b> TOWN OF WEST COLUMBIA ANDY AZAENGLE 803-609-2489 azaengle@westcolumbiasc.gov
FS5	W2
*NO RESPONSE, NO RECORDS PROVIDED	
<b>ELECTRIC</b> DOMINION ENERGY PATRICK GIBBONS patrick.gibbons@dominionenergy.com	<b>WATER/SEWER</b> CITY OF COLUMBIA JOHN HILBERT 803-545-3283 John.Hilbert@columbiaSC.gov
E1	FS1
*NO RESPONSE. RECORDS PROVIDED BY SCDOT	
<b>COMMUNICATIONS</b> SCDOT STEVE LITTLEJOHN LittlejoSL@scdot.org	<b>GAS</b> DOMINION ENERGY ERIC M. HAMPTON 803-609-3873 eric.m.hampton@dominionenergy.com
TF1	G1
*SIZE AND MATERIAL WERE NOT PROVIDED AND IS BASED ON PREVIOUS SUE INVESTIGATION.	



South Carolina Department of Transportation

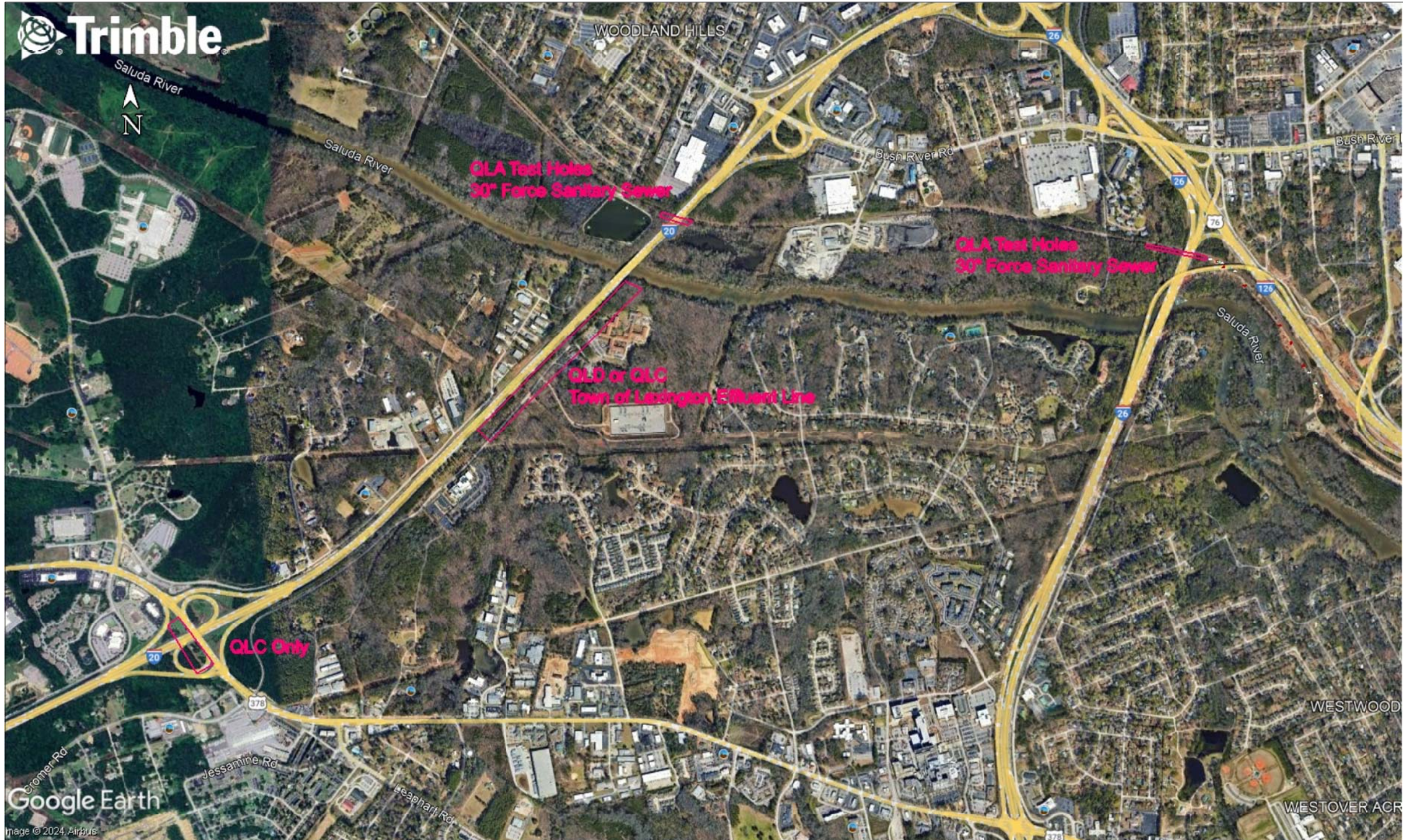
COLUMBIA



# SUBSURFACE UTILITY ENGINEERING

## FOR CAROLINA CROSSROADS

### I-20 PHASE 3 QL-A

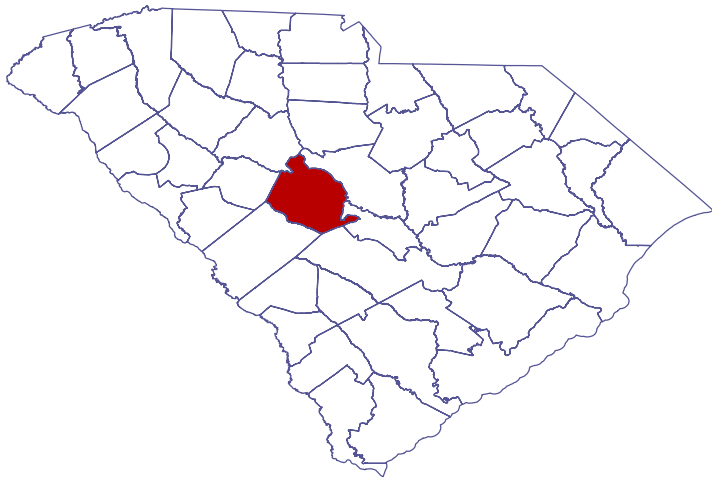


#### INDEX OF UTILITY SHEETS

UTILITY LEGEND  
UTILITY DATA SHEET  
UTILITY PLAN SHEETS

SHEET 2  
SHEET 3  
SHEETS 4-8

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	LEXINGTON	CCR DB PH3 QL-A	520	1



MAP SHOWING LOCATION OF LEXINGTON COUNTY IN SOUTH CAROLINA



ESP Associates, Inc.  
2454 N. Center Street  
Suite E-503  
North Charleston  
South Carolina, 29406  
843-714-2040  
www.espassociates.com

NOTE: ALL WORKMANSHIP ON THIS PROJECT GENERALLY CONFORMS TO THE STANDARDS SET FORTH IN THE LATEST EDITION OF THE SCDOT SUBSURFACE UTILITY ENGINEERING (SUE) CADD DEVELOPMENT MANUAL.

3 DAYS BEFORE DIGGING  
IN SOUTH CAROLINA

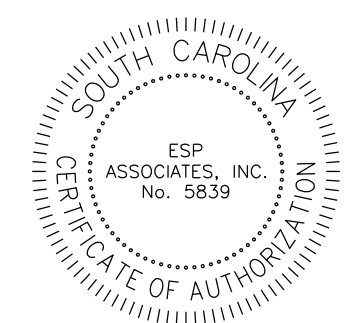


APPROXIMATE LOCATION OF ROADWAY


LONGITUDE: -81° 8' 21.6"

LATITUDE : 34° 58' 58.6"

SUBSURFACE UTILITY ENGINEERING FIRM



SUBSURFACE UTILITY ENGINEERING FIRM  
PROJECT ENGINEER



Scott Carney5/31/24

SIGNATUREDATE

CERTIFICATION STATEMENT:

THESE PLANS WERE PREPARED AND CERTIFIED BY THE CONSULTANT FOR COMPLETENESS. NO REVIEWS OR SIGNATURES BY THE SCDOT ARE REQUIRED.



# SUE LEGEND AND NOTES

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD	ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON	CCR DD PHS QLA	I-20	I-20	2

ELECTRIC SYMBOLS			TELECOMMUNICATION SYMBOLS			UTILITY INFORMATION ABBEVIATIONS			UTILITY UNIQUE IDENTIFIER LINE-STYLES			QUALITY LEVEL DEFINITIONS					
SYM	ABV	DESCRIPTION	SYM	ABV	DESCRIPTION												
	ETM	ELECTRICAL TRANSFORMER		TB	TELEPHONE BOOTH	EOI	END OF INFORMATION			E1 THRU E10		Level D. This level information comes solely from existing utility records. It may provide an overall "feel" for the congestion of utilities, but it is often highly limited in terms of comprehensiveness and accuracy. Its usefulness should be confined to project planning and route selection activities.	Level C. This level involves surveying visible aboveground utility facilities (e.g., manholes, valve boxes, posts) and correlating this information with existing utility records. When using this information, it is not unusual to find that many underground utilities have been either omitted or erroneously plotted. Its usefulness, therefore, should be confined to rural projects where utilities are not prevalent, or are not too expensive to repair or relocate.	Level B. This level involves the use of surface geophysical techniques to determine the existence and horizontal position of underground utilities. This activity is called "designating." Two-dimensional mapping information is obtained. This information is usually sufficient to accomplish preliminary engineering goals. Decisions can be made on where to place storm drainage systems, footers, foundations and other design features in order to avoid conflicts with existing utilities. Slight adjustments in the design can produce substantial cost savings by eliminating utility relocations.			
	EMH	ELECTRICAL MAN HOLE		TVP	CABLE TV PEDESTAL	AATUR	UTILITY ABANDONED ACCORDING TO UTILITY RECORDS			TF1 THRU TF5							
	EHH	ELECTRICAL HAND HOLE		TLC	SUBSCRIBER LOOP CARRIER (aka SLICK)	AATFI	UTILITY ABANDONED ACCORDING TO FIELD INSPECTION			T1 THRU T10							
	EPP	ELECTRIC PEDESTAL		TPP	TELEPHONE PEDESTAL	EATUR	EMPTY ACCORDING TO UTILITY RECORDS			TV1 THRU TV10		Level A. This level involves the use of nondestructive digging equipment at critical points to determine the precise horizontal and vertical position of underground utilities, as well as the type, size, condition, material and other characteristics. This activity is called "locating." It is the highest level presently available. When surveyed and mapped, precise plan and profile information are available for use in making final design decisions. By knowing exactly where a utility is positioned in three dimensions, the designer can often make small adjustments in elevations or horizontal locations and avoid the need to relocate utilities. Additional information (e.g., utility materials, condition, size, soil contamination, paving thickness) also assists the designer and Utility Company in their decisions.					
	EBX	ELECTRIC BOX		TMH	TELEPHONE MAN HOLE	NAP	NO ASSOCIATED PIPING FOUND FROM STRUCTURE			R1 THRU R5							
	ESG	ELECTRIC SWITCH GEAR BOX		TFOH	FIBER OPTIC HAND HOLE	NAC	NO ASSOCIATED CABLES FOUND FROM STRUCTURE			G1 THRU G10							
	EVT	ELECTRIC VAULT		THH	TELEPHONE HAND HOLE	DBR	DIRECT BURIED			F1 THRU F5		U SHEET - UTILITY COORDINATION LEGEND					
	EGL	GROUND / LANDSCAPE LIGHT		TVHH	CABLE TV HAND HOLE	DATFI	DEPICTED ACCORDING TO FIELD INSPECTION			ST1 THRU ST5							
	EAB	ELECTRIC AIR BRAKE		TBX	TELEPHONE BOX	EATFI	EMPTY ACCORDING TO FIELD INSPECTION			CA1 THRU CA5							
	ERO	ELECTRIC RESIDENTAL OUTLET		TXB	SPLICE BOX	PR	PAIR			W1 THRU W10		SYM	ABV	DESCRIPTION			
POLE SYMBOLS				TRP	TELEPHONE REPEATER	MT	EMPTY			OH1 THRU OH20					PROPOSED UTILITY LINES		
	PSP	SIGNIFICANT POLE (STEEL, CONCRETE, ETC)		TVB	CABLE TV BOX	CAP	CAPACITY			TF1 THRU TF5						UCP	NEW / RELOCATED UTILITY POLE
	PP	ELECTRIC, COMBINATION POLE		UTP	UNDERGROUND TELEPHONE PEDESTAL	GR	GROUND			URP	REMOVE UTILITY POLE						
	PMP	METER POLE		UTV	UNDERGROUND CABLE TV PEDESTAL	MATERIAL ABBREVIATIONS				UCW	NEW / RELOCATE WATER STRUCTURE		UCT	NEW / RELOCATE TELECOMMUNICATION PEDESTAL			
	PLT	TRANSMISSION LINE POLE	WATER SYMBOLS			C	COPPER			UCG	NEW / RELOCATE GAS STRUTURE		UCE	NEW / RELOCATE ELECTRIC STRUCTURE			
	PLP	AREA LIGHT POLE		WM	WATER METER	DI	DUCTILE IRON			UCS	NEW / RELOCATE SEWER STRUCTURE		UCF	NEW / RELOCATE TRAFFIC STRUCTURE			
	PTF	TRAFFIC SIGNAL POLE		WV	WATER VALVE	W	UNDERGROUND WATER			UCU	NEW / RELOCATE MISC STRUCTURE						
	POP	OTHER USE POLE		WMW	WATER MONITORING WELL	G	UNDERGROUND GAS										
	PCT	CELL PHONE TOWER		WFH	FIRE HYDRANT	PUPS	PALMETTO UTILITY PROTECTION SERVICES										
	PTP	TELEPHONE POLE		WMH	WATER MAN HOLE	T	TELEPHONE, TELECOMMUNICATION										
	PGP	GUY POLE		WAR	WATER AIR RELEASE VALVE	TV, C	CABLE TELEVISION										
TRAFFIC CONTROL SYMBOLS				WVB	WATER VALVE BOX	FO	FIBER OPTIC										
	TFV	TRAFFIC SIGNAL CONTROL VAULT		WFC	FIRE DEPARTMENT CONNECTION	S	SANITARY SEWER										
	TFHH	TRAFFIC CONTROL HAND HOLE		WBP	WATER BACKFLOW PREVENTER	FS	FORCED SANITARY SEWER, FORCE MAIN										
	TFJ	TRAFFIC SIGNAL JUNCTION BOX		WBO	WATER BLOW OFF VALVE	DB	DUCT BANK										
GAS SYMBOLS				WWH	WELL HOUSE	TF	TRAFFIC CONTROL UTILITY										
	ABV	DESCRIPTION		WPV	POST INDICATOR VALVE	UNK	UNKNOWN UTILITY										
	GM	GAS METER	SEWER SYMBOLS			HP	HYDROGEN PEROXIDE										
	GVC	GAS VALVE CAP		ABV	DESCRIPTION	ST	STEAM LINE										
	GMH	GAS MAN HOLE		SCO	SEWER CLEAN OUT	F	FUEL / PETROLEUM LINE										
	GVT	GAS VENT		SMH	SEWER MAN HOLE	R	RECLAIMED WATER / SLURRY LINE										
	GR	GAS PRESSURE REGULATOR		SAR	SEWER AIR RELEASE VALVE	I	IRRIGATION LINE										
	GTP	GAS LINE TEST POINT		SST	SEWER STEP TANK	DB	DUCT BANK										
	GTF	GAS LINE TAP FARM		SCV	SEWER CHECK VALVE BOX	TNL	TUNNEL										
MISC SYMBOLS				SGP	SEWER GRINDER / PUMP STATION	CA	GASES MATERIAL										
	MWP	UTILITY WITNESS POST		SSV	SEWER VALVE	SEWER MANHOLE NUMBERS (SMN)											
	MOI	END OF INFORMATION		SLS	SEWER LIFT STATION	S001	SANITARY SEWER MANHOLE										
	MUC	MISC / UNKNOWN VALVE CAP OR COVER	NONPOTTABLE WATER SYMBOLS			DESIGNATE EACH SANITARY SEWER MANHOLE WITH A SEWER MANHOLE NUMBER (SMN). REFERENCE THIS SMN ON THE UTILITY DATA SHEET AND LIST ELEVATIONS.											
	MPB	PAVED OR BURIED MANHOLE / CAP		ICV	IRRIGATION CONTROL VALVE	GENERAL NOTES											
	MUE	UTILITY TERMINI / ENDS		ICB	IRRIGATION CONTROL BOX	-GRAVITY SANITARY SEWER LINES ARE SHOWN AS LEVEL 'C'.											
	MTH	TEST HOLE		IRH	IRRIGATION / SPRINKLER HEAD	-AERIAL UTILITY LINES ARE CONSIDERED AS LEVEL 'C'.											
COMBINATION LINE DEPICTION CODES			DUCT BANK DIAGRAM			-UTILITY OWNER INFORMATION SHOWN ON UTILITY TITLE SHEET.											
SHOW COMBINED LEVEL C & D SUE WILL INCLUDE THE FOLLOWING LEVEL QUALITY CODES:						-DETAILED INFORMATION SHOWN ON UTILITY & POLE DATA SHEETS.											
LINE SHOWN DEPICTS QUALITY LEVEL C						-UTILITY POLE DATA INFORMATION SHOWN ON UTILITY & POLE DATA SHEETS.											
LINE SHOWN DEPICTS QUALITY LEVEL D						-TEST HOLE SHOWN ON UTILITY PLAN SHEETS AND DETAILED ON TEST HOLE REFERENCE SHEETS.											
MULTIPLE SUE OWNERS CAN BE DEPICTED OWNERSHIP WITH THE FOLLOWING CODES:			PLACE DUCT BANK DIAGRAM ON THE UTILITY & POLE DATA SHEET BELOW THE UTILITY & POLE DATA CHART. NOTE THE UUI OF THE DUCT BANK ON THE DIAGRAM. DEPICT THE CORRECT NUMBER OF CONDUITS IN THE DUCT AND THE USAGE OF EACH. MARK EMPTY (IF KNOWN) WITH OWNER REFERENCE ABBREVIATION AND "MT".			-HORIZONTAL AND VERTICAL REFERENCED TO PROJECT CONTROL FOUND ON REFERENCE SHEET.											
(A) UTILITY OWNER "X"			No. OF CONDUITS			-SERVICES LINES WERE DESIGNATED TO THE SWEEP LIMITS OR DISTRIBUTION POINT.											
(B) UTILITY OWNER "Y"						-ALL SUBSURFACE UTILITY WORK WAS PERFORMED USING THE ASCE GUIDELINES FOR THE COLLECTION											
UTILITY LINES THAT REQUIRE MORE DETAILED INFORMATION ON THE PLAN SHEET CAN BE LABELED WITH THE SUPPLEMENTAL UTILITY LINE LABEL (SUL):						AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA											
						CI/ASCE 38-02											
OWNERSHIP CODES WILL REFERENCED ON THE TITLE/OWNER SHEET AND THE UTILITY & POLE DATA SHEET.						UTILITY POLE ID NUMBER (UPIN)											
						TAG EACH UTILITY POLE WITH A UTILITY POLE ID NUMBER (UPIN) STARTING AT THE BEGINNING STATION. REFERENCE UPIN ON THE UTILITY & POLE DATA SHEET WITH APPROPRIATE INFORMATION.											
						POLE NUMBER											
						</											



FED. RD. DIV. NO.3STATES. C.COUNTYLEXINGTONPROJECT IDCCR 00 PH3 QLA NO.120SHEET NO.3

TEST HOLE DATA \*

TEST HOLE No	TYPE OF UTILITY	UTILITY OWNER	UTILITY MATERIAL	SIZE OR CAPACITY	UTILITY CONDITION	RECORD MATCH	SURFACE TYPE*	PAVEMENT THICKNESS	SOIL TYPE**	SURVEY MARKER	SURVEY B. M.	GRADE ELEV	TOP OF UTIL ELEV	BOTTOM OF UTIL ELEV	APX UTIL CL BEARING	PROJECT LOCATION DATA (SEE DATA REFERENCE SHEET)					MISC NOTES	
																ALIGNMENT	STATION	OFFSET	NORTHING	EASTING		
1	SFM	COCWS	DI	30"	FAIR	YES	N	N/A	H.E.C	HUB	LEX113	174.97'	171.81'	N/A	N/A	N/A	N/A	N/A	N/A	797786.37	1969239.63	MEASURED PROBE DEPTH DUE TO WET SOIL CONDITIONS
2	SFM	COCWS	DI	30"	FAIR	YES	N	N/A	H.E.C	HUB	LEX113	175.96'	173.76'	N/A	N/A	N/A	N/A	N/A	N/A	797809.30	1969165.96	
3	SFM	COCWS	DI	30"	FAIR	YES	N	N/A	H.E.C	HUB	LEX113	173.75'	172.66'	N/A	N/A	N/A	N/A	N/A	N/A	797874.17	1968878.09	
4	SFM	COCWS	DI	30"	FAIR	YES	N	N/A	H.E.C	HUB	LEX113	172.86'	170.85'	N/A	N/A	N/A	N/A	N/A	N/A	797882.74	1968839.67	
5	SFM	COCWS	DI	30"	FAIR	YES	N	N/A	H.E.C	HUB	LEX113	170.72'	166.97'	N/A	N/A	N/A	N/A	N/A	N/A	797904.61	1968736.68	MEASURED PROBE DEPTH DUE TO WET SOIL CONDITIONS
6	SFM	COCWS	DI	30"	FAIR	YES	N	N/A	H.E.C	HUB	LEX113	179.07'	177.64'	N/A	N/A	N/A	N/A	N/A	N/A	798295.30	1961941.55	MEASURED PROBE DEPTH DUE TO WET SOIL CONDITIONS
7	SFM	COCWS	DI	30"	FAIR	YES	N	N/A	H.E.C	HUB	LEX113	178.93'	176.66'	N/A	N/A	N/A	N/A	N/A	N/A	798295.96	1961931.35	MEASURED PROBE DEPTH DUE TO WET SOIL CONDITIONS
8	SFM	COCWS	DI	30"	FAIR	YES	N	N/A	H.E.C	HUB	LEX113	176.97'	174.31'	N/A	N/A	N/A	N/A	N/A	N/A	798307.30	1961903.46	MEASURED PROBE DEPTH DUE TO WET SOIL CONDITIONS
9	SFM	COCWS	DI	30"	FAIR	YES	N	N/A	H.E.C	HUB	LEX113	175.91'	171.37'	N/A	N/A	N/A	N/A	N/A	N/A	798411.00	1961561.94	MEASURED PROBE DEPTH DUE TO WET SOIL CONDITIONS
10	SFM	COCWS	DI	30"	FAIR	YES	N	N/A	H.E.C	HUB	LEX113	176.12'	171.49'	N/A	N/A	N/A	N/A	N/A	N/A	798417.93	1961534.40	MEASURED PROBE DEPTH DUE TO WET SOIL CONDITIONS

\*\*SOIL DESCRIPTION

LEGEND KEY

COMPACTION

WATER LEVEL

SOIL TYPE

LOOSE

L

DRY

D

CLAY

C

SOFT

D

MOIST

M

LOAM

L

HARD

H

WET

E

SAND

S

SOLID

HH

STANDING WATER

WW

SILT

Z

\*\*SOIL COMBINATION

CHART

SANDY LOAM

SL

SILTY LOAM

ZL

SILT

Z

CLAY LOAM

CL

SILT CLAY LOAM

ZCL

SAND CLAY LOAM

SCL

SANDY CLAY

SC

SILTY CLAY

ZC

CLAY

C

\*SURFACE DESCRIPTION

LEGEND KEY

ASPHALT

A

INTER-LOCKING BRICK

I

CONC-RETE

C

NATURAL GROUND

N

REV. NO.

BY

DATE

DESCRIPTION OF REVISION

4

3

2

1

1

SOUTH CAROLINA

DEPARTMENT OF TRANSPORTATION

ROAD DESIGN

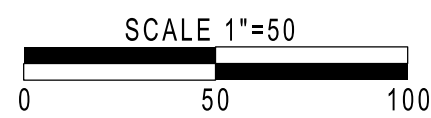
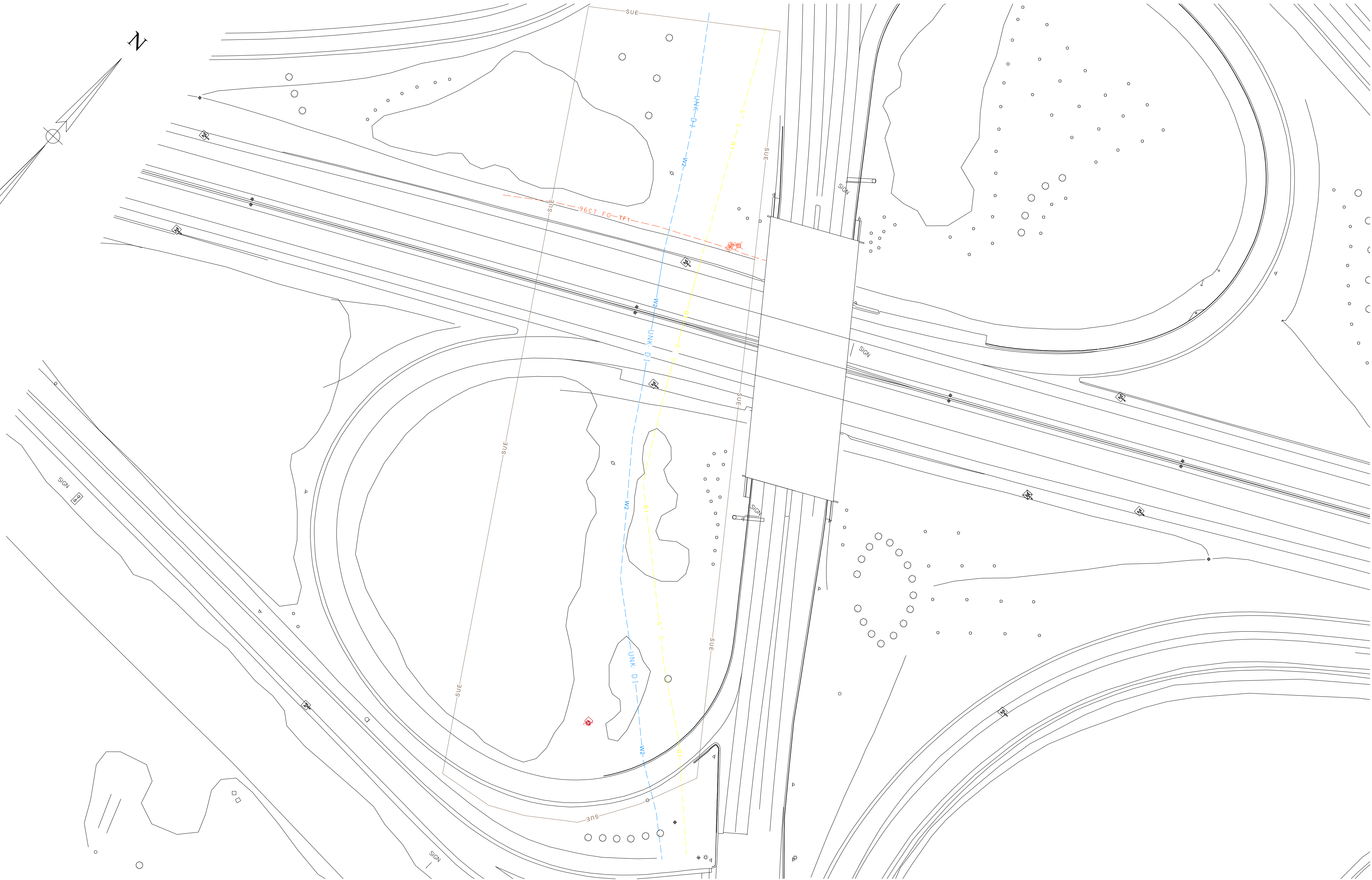
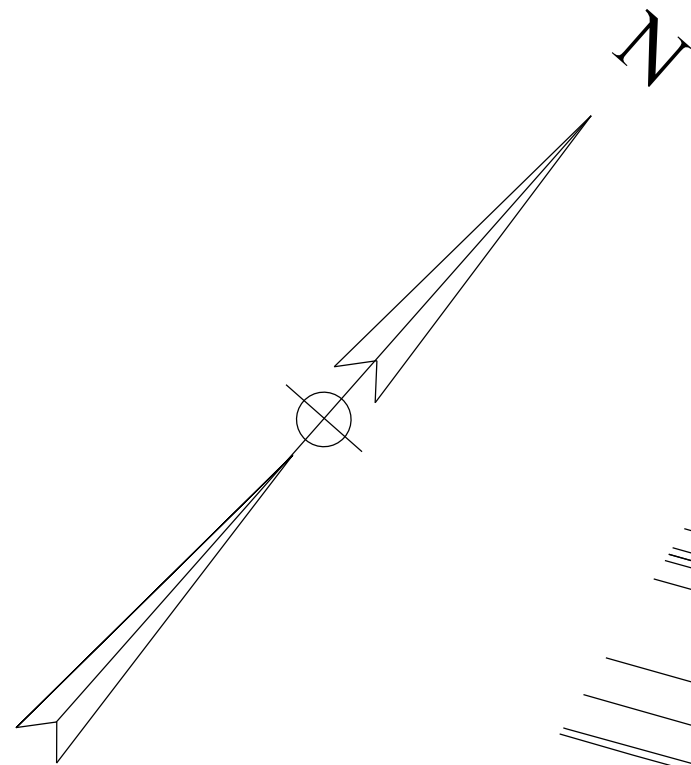
COLUMBIA, S. C.

TEST HOLE DATA SHEET

SCALE 1"= 50'

DWG. uCCR120ph3qlavxd.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	LEXINGTON	CCR 120 PH3 QLA	I-20	4



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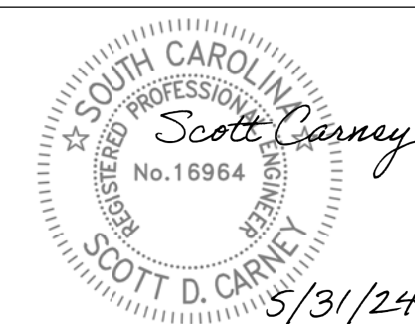
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4				
3				
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REV. NO.	BY	DATE	DESCRIPTION OF REVISION	
DRAWN	WSD	5/31/24		
CHECKED	SDC	5/31/24		

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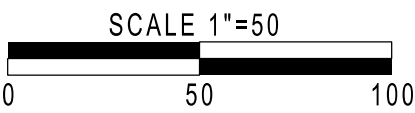
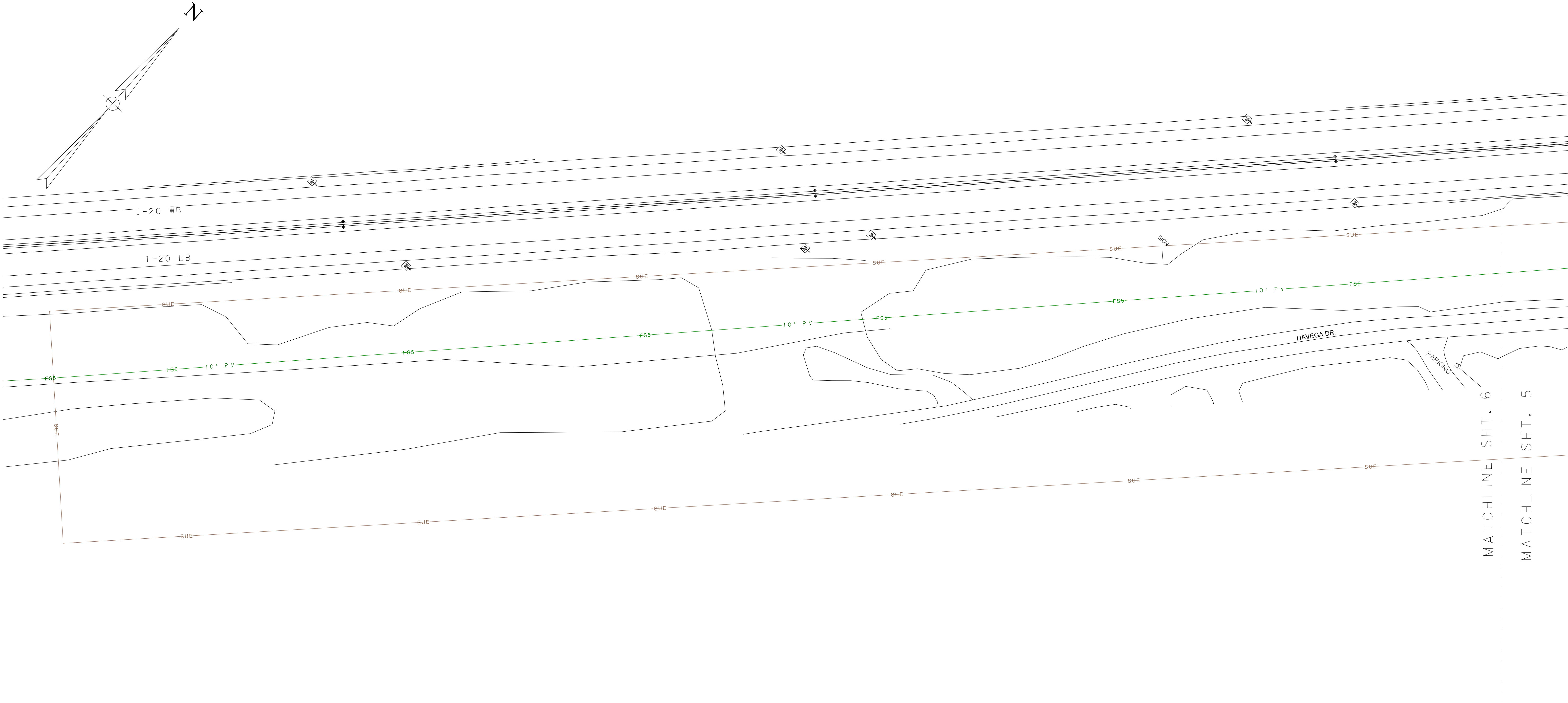
SOUTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
SUE PLAN SHEET COLUMBIA, SC

CAROLINA CROSSROADS  
I-20 PHASE 3 QLA

SCALE 1"= 50'

uccri20ph3qlapp\_th.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	LEXINGTON	CCR 120 PH3 QLA	120	5



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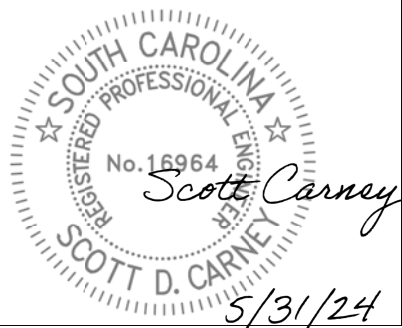
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4			
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SUE PLAN SHEET COLUMBIA, SC

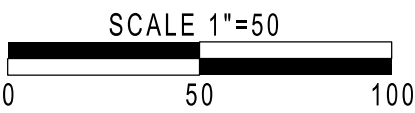
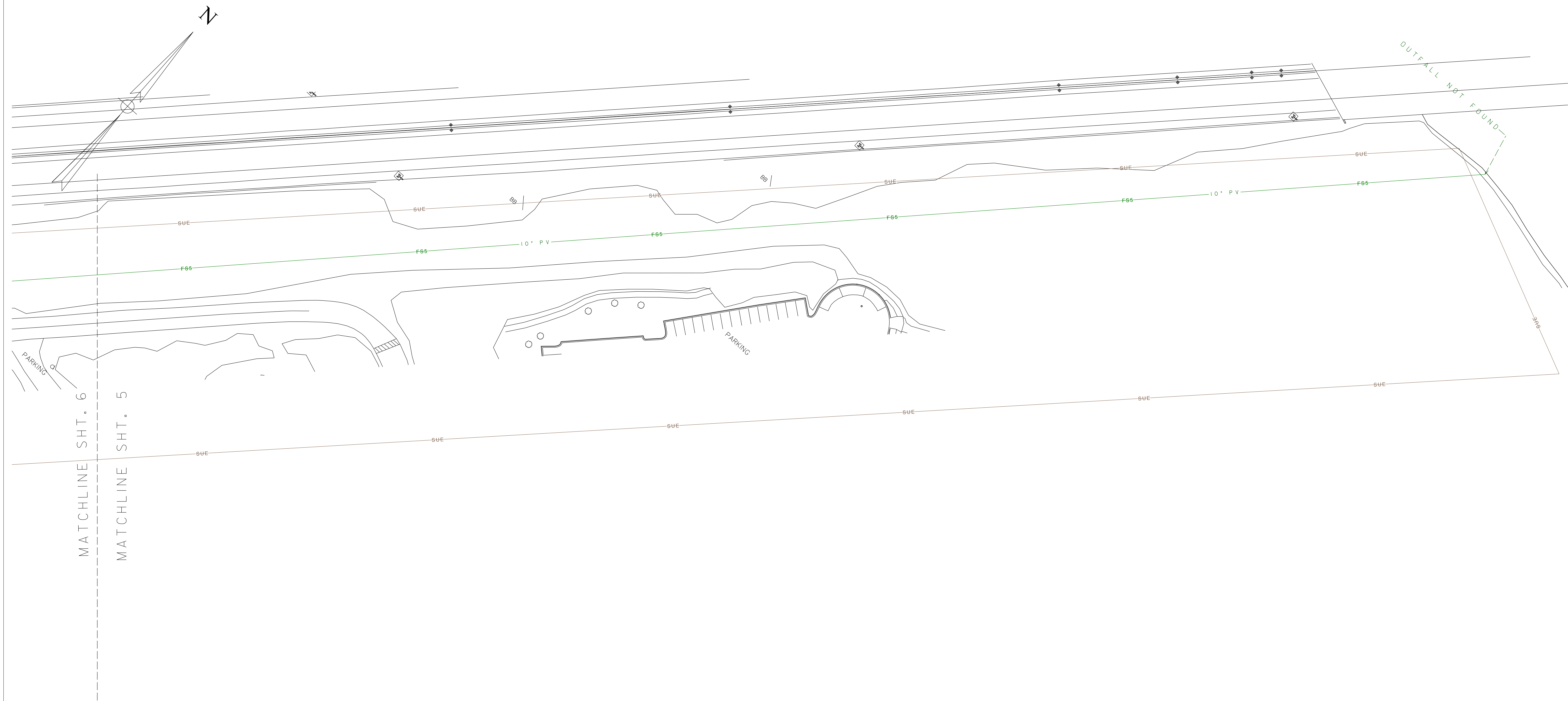
CAROLINA CROSSROADS  
I-20 PHASE 3 QLA

SCALE 1"= 50'

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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	LEXINGTON	CCR I20 PH3 QLA	I20	6



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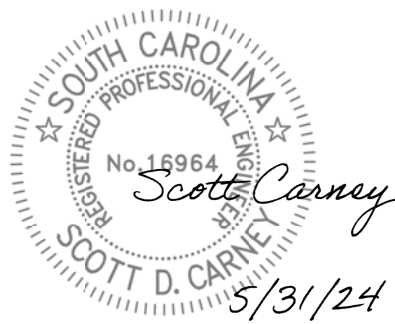
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CHECKED	SDC	5/31/24	

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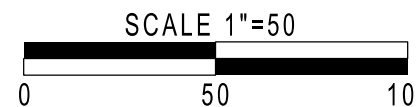
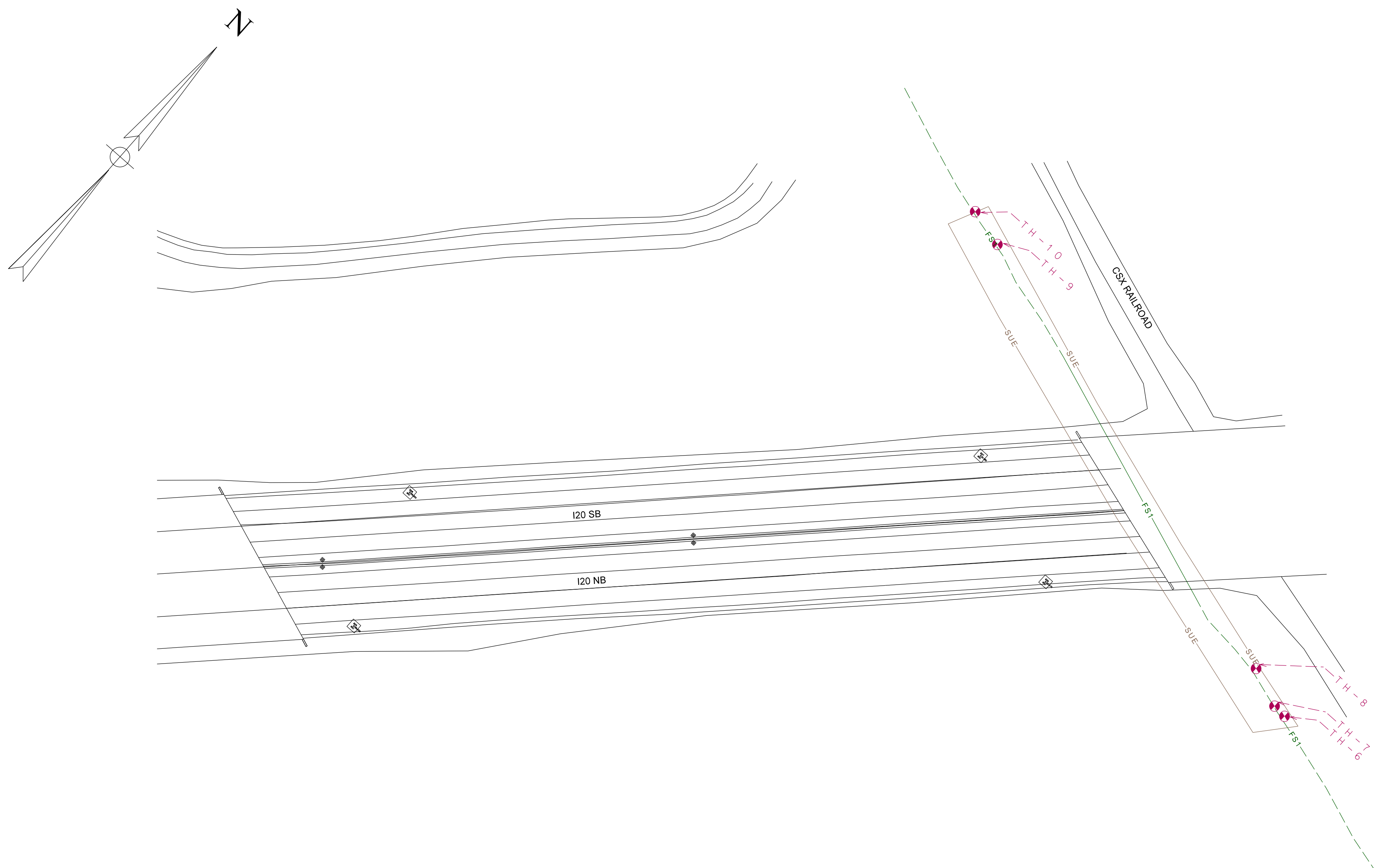
SOUTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
SUE PLAN SHEET COLUMBIA, SC

CAROLINA CROSSROADS  
I-20 PHASE 3 QLA

SCALE 1"= 50'

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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	LEXINGTON	CCR I20 PH3 QLA	I20	7



PREPARED FOR:



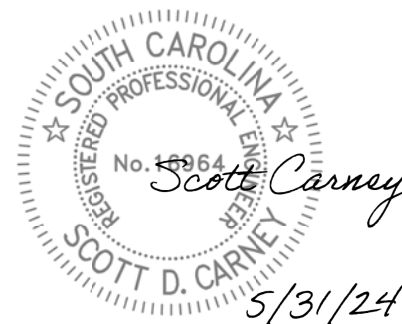
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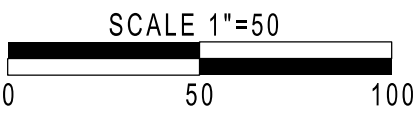
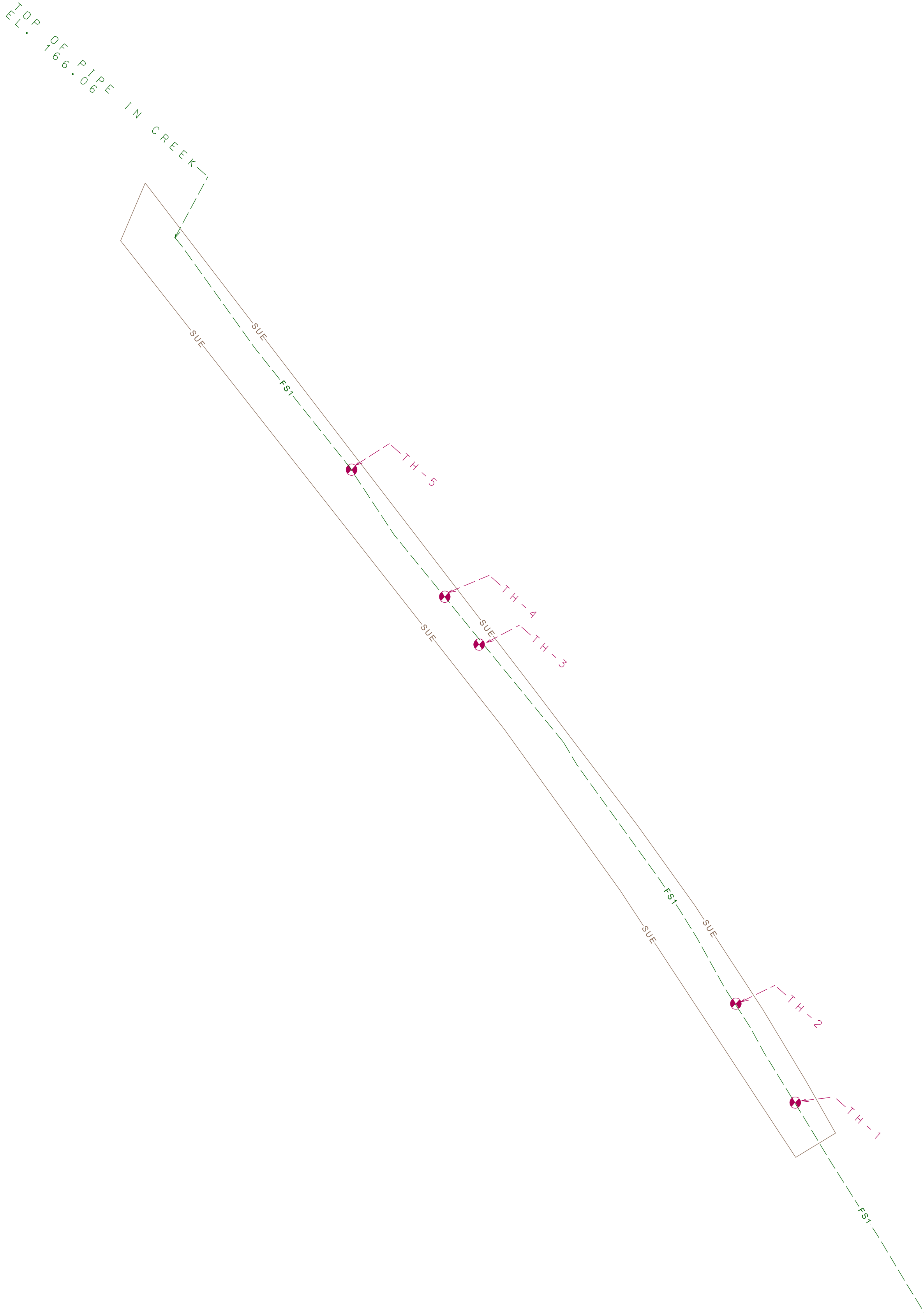
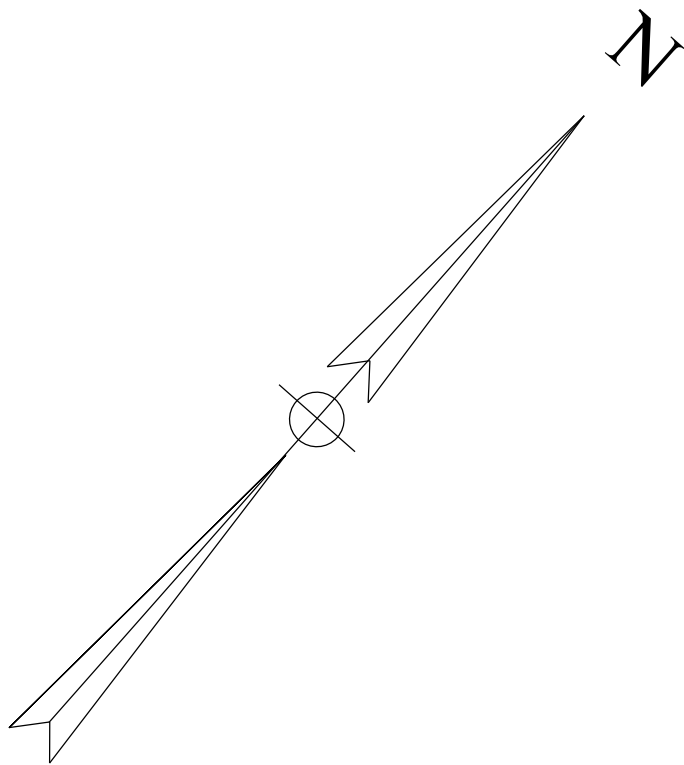
SOUTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
SUE PLAN SHEET COLUMBIA, SC

CAROLINA CROSSROADS  
I-20 PHASE 3 QLA

SCALE 1"= 50'

uccri20ph3qlapp\_th.dgn

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD NO.	SHEET NO.
3	S.C.	LEXINGTON	CCR 120 PH3 QLA	I-20	8



PREPARED FOR:



PREPARED BY:



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4			
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ESP Associates, Inc.



SOUTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
SUE PLAN SHEET COLUMBIA, SC

CAROLINA CROSSROADS  
I-20 PHASE 3 QLA

SCALE 1"= 50'

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