

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5662	RW01	9

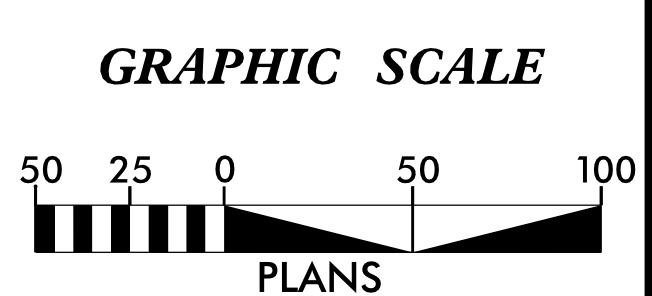
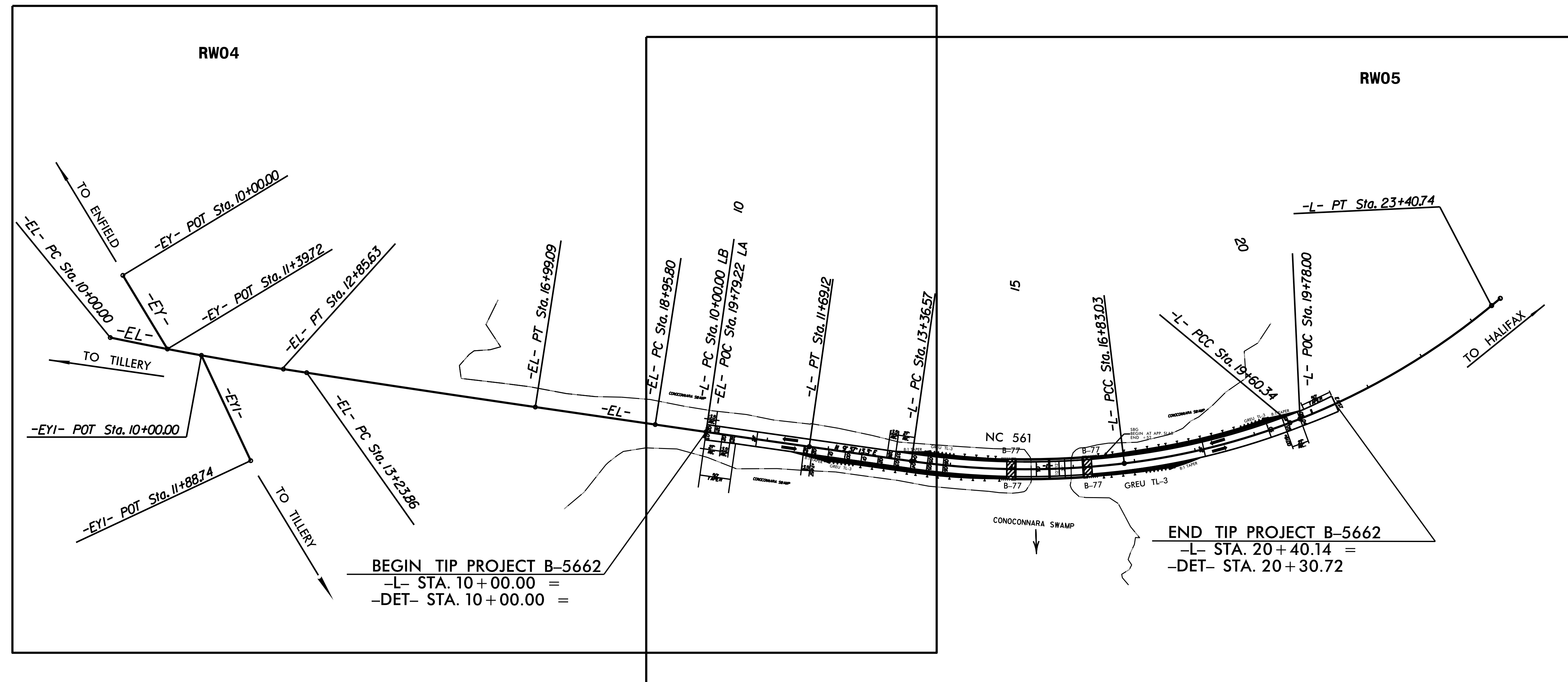
TIP PROJECT: B-5662

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

SURVEY CONTROL, EXISTING CENTERLINES,  
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

HALIFAX COUNTY

NAD 83/NA 2011



**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR GPS MONUMENT "B-5662-1" WITH NAD 83/NA2011 STATE PLANE GRID COORDINATES OF NORTHING: 921,347.657(ft) EASTING: 2,446,374.864(ft) ELEVATION: 51.162(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9999658010

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B-5662-1" TO -L- STATION 10+00.00 IS S 18-20° 54.2' W 1,682.58(ft)

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88/GEOID G12NC

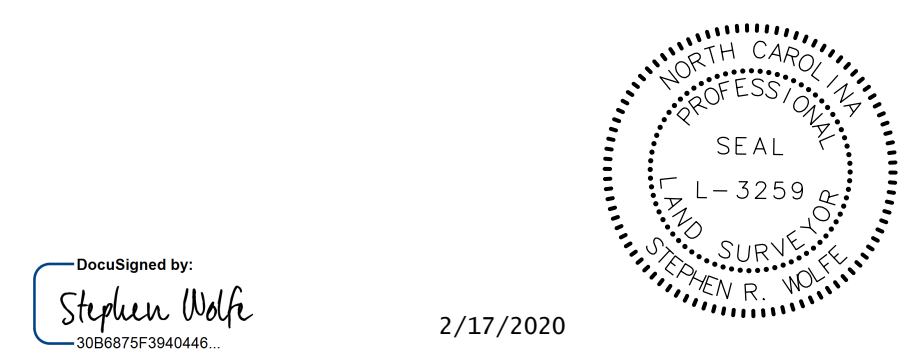
Prepared in the Office of:

JoynerKeeny, PLLC  
1051 N. Winstead Avenue  
Rocky Mount, NC 27804  
252-977-3124  
North Carolina Firm Number P-0551

2018 STANDARD SPECIFICATIONS

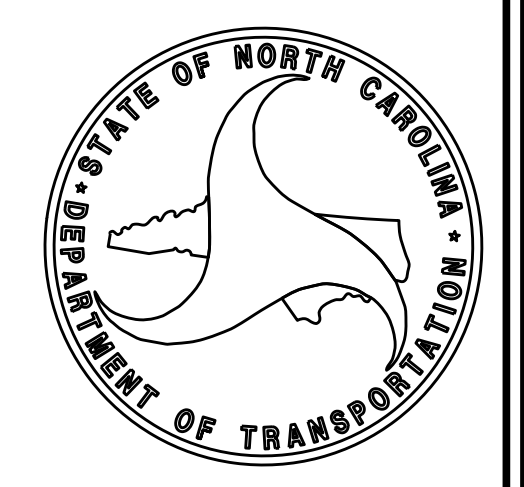
RIGHT OF WAY DATE: \_\_\_\_\_ LETTING DATE: \_\_\_\_\_

PROFESSIONAL LAND SURVEYOR



DocuSigned by: Stephen Wolfe

2/17/2020 Date:

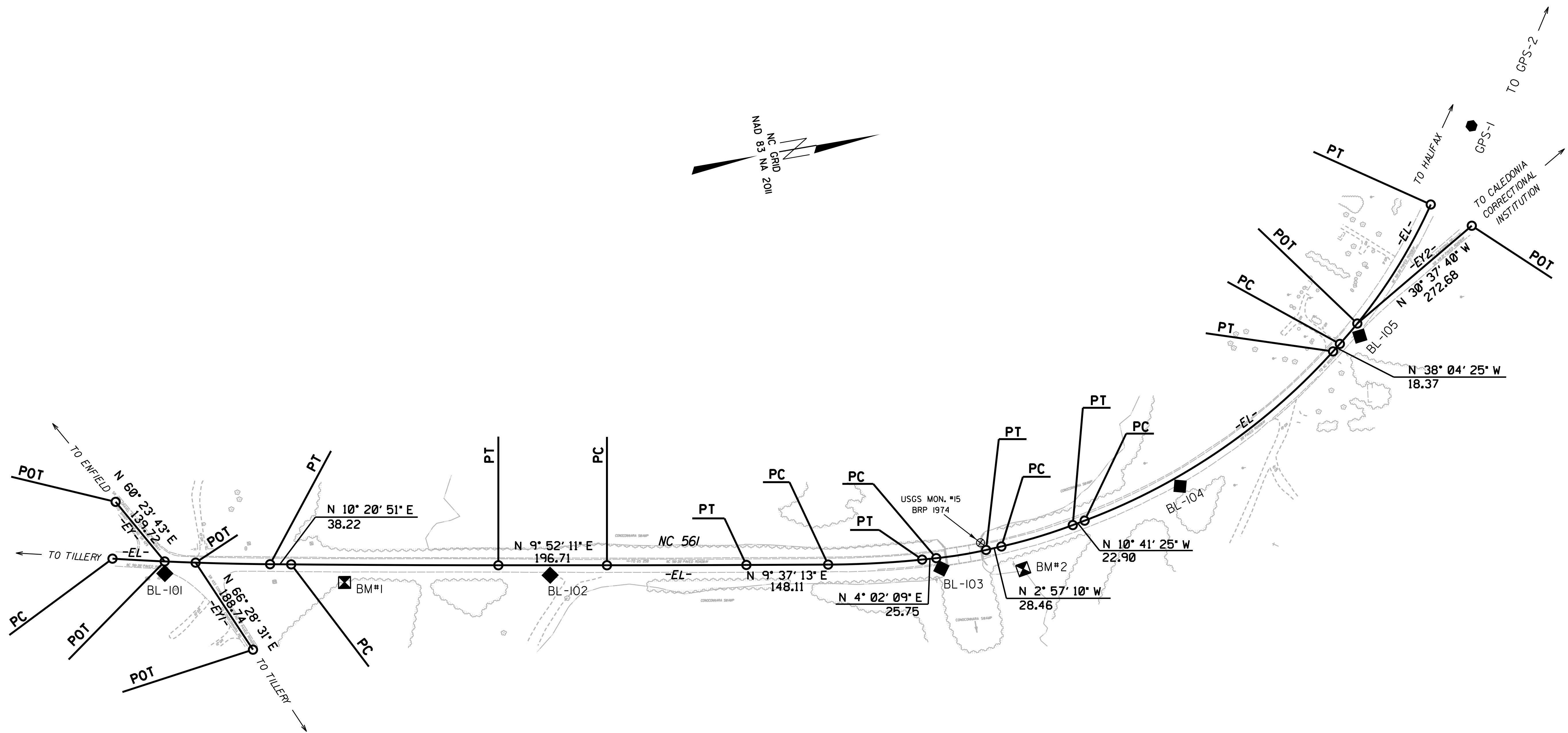


SYSTEM TIME\$\$\$\$\$  
\$\$\$\$\$DDN\$\$\$\$\$  
\$\$\$\$\$SERNAME\$\$\$\$\$

# SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
B-5662	RW02C-1
<b>Location and Surveys</b>	
JoynerKeeny, PLLC 1051 N. Winstead Avenue Rocky Mount, NC 27804 252-977-3124 North Carolina Firm Number P-0551	



SEE SHEET RW02C-3 FOR FURTHER ALIGNMENT DETAILS

**NOTES:**

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

13-FEB-2020 11:04  
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jmatthews AT JK4-011

6/2/09

PROJECT REFERENCE NO.	SHEET NO.
B-5662	RW02C-2
<b>Location and Surveys</b>	
JoynerKeeny, PLLC 1051 N. Winstead Avenue Rocky Mount, NC 27804 252-977-3124 North Carolina Firm Number P-0551	

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BL	POINT	DESC.	NORTH	EAST	ELEVATION
101			921044.9612	2446722.9280	51.68
102		BL - 102	919563.8747	2446890.4661	48.31
103		BL - 103	920264.2382	2446999.7062	49.10
104		BL - 104	920715.6340	2446927.3656	49.04
105		BL - 105	921082.8471	2446715.1488	49.90
1		B5662-1	921347.6570	2446374.8640	51.16
2		B5662-2	921704.7000	2445557.0550	53.63

.....  
 1077            ELEVATION = 51.04  
 N 919195       E 2446840  
 BM\*1 RR SPIKE IN BASE OF 14" TWIN BEECH  
 .....

.....  
 824            ELEVATION = 42.33  
 N 920410       E 2447026  
 BM\*2 RR SPIKE IN BASE OF 16" SYCAMORE  
 .....

REVISIONS

I3-FEB-2020 11:09  
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jmatthews AT JK4-011

**NOTES:**

- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
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# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

REVISIONS

EL									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	918788.152	2446724.997							
CURVE			N 11°53'29.5" E	285.60	03°05'16.3"(L T)	01°04'51.8"	285.63	142.85	5300.00
PT	919067.622	2446783.847							
LINE			N 10°20'51.3" E	38.22					
PC	919105.223	2446790.713							
CURVE			N 10°06'31.4" E	375.23	00°28'40.0"(L T)	00°07'38.4"	375.24	187.62	45000.00
PT	919474.633	2446856.573							
LINE			N 09°52'11.4" E	196.71					
PC	919668.429	2446890.290							
CURVE			N 09°44'42.3" E	252.54	00°14'58.1"(L T)	00°05'55.6"	252.54	126.27	58000.00
PT	919917.325	2446933.037							
LINE			N 09°37'13.3" E	148.11					
PC	920063.348	2446957.788							
CURVE			N 08°49'41.2" E	170.50	05°35'04.2"(L T)	03°16'26.6"	170.57	85.35	1750.00
PT	920232.640	2446978.059							
LINE			N 04°02'09.1" E	25.75					
PC	920258.328	2446979.871							
CURVE			N 00°32'29.4" E	91.43	06°59'19.3"(L T)	07°38'22.0"	91.48	45.80	750.00
PT	920349.749	2446980.735							
LINE			N 02°57'10.3" W	28.46					
PC	920378.167	2446979.269							
CURVE			N 08°49'17.7" W	134.94	07°44'15.0"(L T)	05°43'46.5"	135.04	67.63	1000.00
PT	920512.154	2446963.241							
LINE			N 10°41'25.2" W	22.90					
PC	920534.653	2446958.994							
CURVE			N 24°22'55.2" W	544.40	27°22'59.9"(L T)	04°58'56.1"	549.62	280.16	1150.00
PT	921030.502	2446734.255							
LINE			N 38°04'25.2" W	18.37					
PC	921044.961	2446722.928							
CURVE			N 47°00'36.2" W	301.36	17°52'22.0"(L T)	05°54'24.4"	302.58	152.53	970.00
PT	921250.446	2446502.495							

EY				
POINT	N	E	BEARING	DIST
POT	918811.360	2446624.682		
LINE			N 60°23'43.0" E	139.72
POT	918880.382	2446746.161		

EY1				
POINT	N	E	BEARING	DIST
POT	918935.240	2446757.931		
LINE			N 66°28'30.8" E	188.74
POT	919010.575	2446930.985		

EY2				
POINT	N	E	BEARING	DIST
POT	921082.441	2446692.022		
LINE			N 30°37'39.7" W	272.68
POT	921317.078	2446553.105		

**NOTES:**

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6/2/09

# PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
B-5662	RW02D-1
<b>Location and Surveys</b>	
JoynerKeeny, PLLC 1051 N. Winstead Avenue Rocky Mount, NC 27804 252-977-3124 North Carolina Firm Number P-0551	

TYPE	STATION	L	
		NORTH	EAST
PC	10+00.00	919750.6218	2446904.5298
PT	11+69.12	919917.3250	2446933.0365
PC	13+36.57	920082.4167	2446961.0200
PCC	16+83.03	920427.6516	2446974.0274
PCC	19+60.34	920698.0294	2446915.5052
PT	23+40.74	921030.5023	2446734.2545
POT	23+59.11	921044.9612	2446722.9280

REVISIONS

I3-FEB-2020 11:35  
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 imatthews AT JK4-011

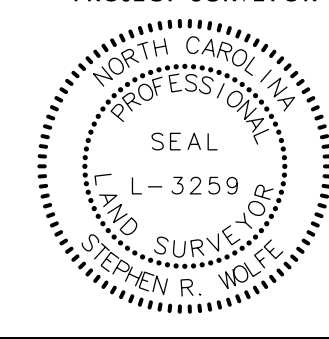
### NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.



6/2/19

# RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO. B-5662	SHEET NO. RW03E-1
Location and Surveys	
JoynerKeeny, PLLC 1051 N. Winstead Avenue Rocky Mount, NC 27804 252-977-3124 North Carolina Firm Number P-0551	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROW MARKER IRON PIN AND CAP-E


ALIGN	STATION	OFFSET	NORTH	EAST
L	10+00.00	75.00	919737.8723	2446978.4381
L	10+00.00	-70.00	919762.5213	2446835.5486
L	10+00.00	-30.00	919755.7215	2446874.9664
L	10+00.00	30.00	919745.5220	2446934.0931
L	11+69.12	-70.00	919929.0234	2446864.0209
L	11+69.12	75.00	919904.7911	2447006.9818
L	13+36.57	75.00	920069.8828	2447034.9653
L	13+36.57	-70.00	920094.1151	2446892.0044
L	16+83.03	-70.00	920421.1796	2446904.3273
L	16+83.03	75.00	920434.5858	2447048.7062
L	19+60.34	75.00	920722.5970	2446986.3673
L	19+60.34	-70.00	920675.0997	2446849.3673
L	19+78.00	-30.00	920704.4103	2446881.4014
L	19+78.00	30.00	920724.9326	2446937.7825
L	19+78.00	75.00	920740.3244	2446980.0684
L	19+78.00	-70.00	920690.7288	2446843.8139

I, Stephen R. Wolfe, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work items (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 17th day of February, 2020.

DocuSigned by:  
  
 2086875F3940446  
 Professional Land Surveyor L-3259 PLS Seal  
 2/17/2020


### NOTES:

- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

REVISIONS

I:\FEB-2020\_0837\2160177C\_NCDOT\_B5662\_ROW\_Hair\ex\DR\WORK\RW\_COMPS\RW\_SERIES\_SHEETS\B5662\_1s\_r\03e-1.dgn  
 AT 11:41:01 AM

# PERMANENT EASEMENT CONTROL SHEET

PROJECT REFERENCE NO. B-5662	SHEET NO. RW03E-2
<b>Location and Surveys</b>	
JoynerKeeny, PLLC 1051 N. Winstead Avenue Rocky Mount, NC 27804 252-977-3124 North Carolina Firm Number P-0551	
PROJECT SURVEYOR 	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
EL	12+59.66	30.00	919036.5466	2446808.6041
EL	13+21.00	76.00	919088.7616	2446864.9636


REVISIONS

I, Stephen R. Wolfe, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work items (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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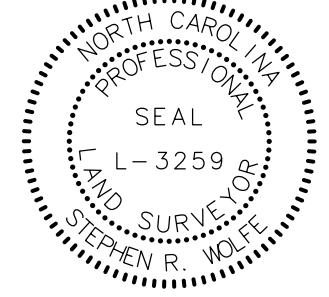
Witness my original signature, registration number and seal this 17th day of February, 2020.

DocuSigned by:  
  
 3086075F394044E... L-3259  
 Professional Land Surveyor PLS Seal  
 27 April 2020

### NOTES:

- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

6/2/2020

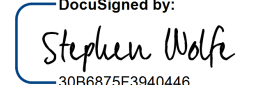
PROJECT REFERENCE NO.	SHEET NO.
B-5662	RW04
<b>Location and Surveys</b>	
JoynerKeeny, PLLC 1051 N. Winstead Avenue Rocky Mount, NC 27804 252-977-3124 North Carolina Firm Number P-0551	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

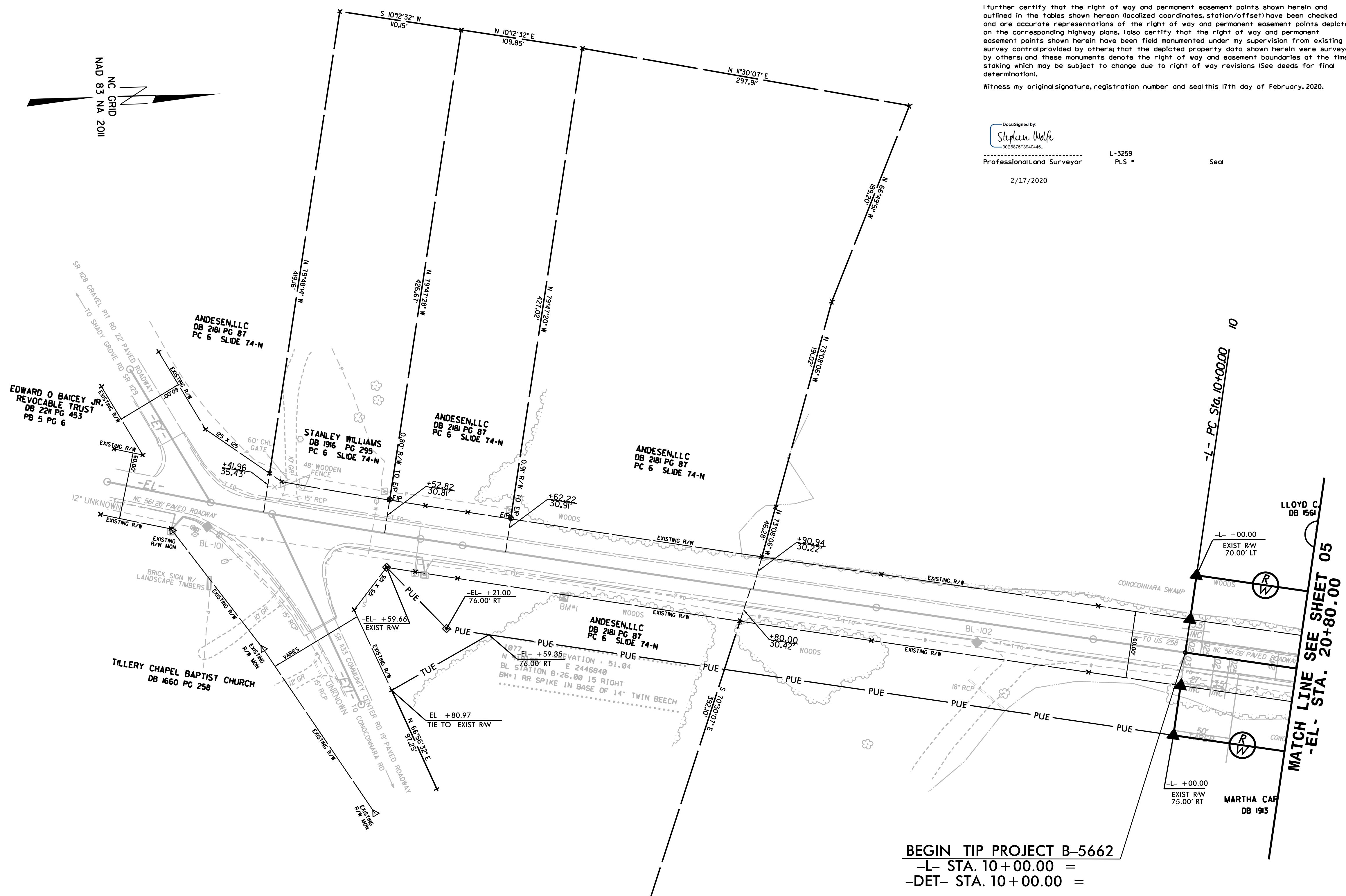
I, Stephen R. Wolfe, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work items (Base map Completion, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries of the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 17th day of February, 2020.

DocuSigned by:  
  
 3086873F73040446  
 Professional Land Surveyor L-3259 PLS \* Seal  
 2/17/2020



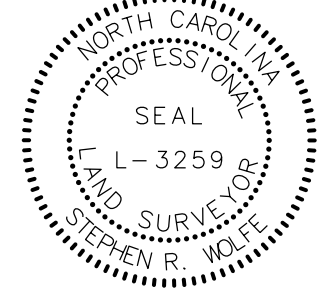
BEGIN TIP PROJECT B-5662  
 -L- STA. 10+00.00 =  
 -DET- STA. 10+00.00 =

- NOTES:
- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
  - PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

REVISIONS

17-FEB-2020 08:40  
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 at 11:41:01 AM



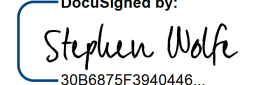
PROJECT REFERENCE NO.	SHEET NO.
B-5662	RW05
<b>Location and Surveys</b>	
JoynerKeeny, PLLC 1051 N. Winstead Avenue Rocky Mount, NC 27804 252-977-3124 North Carolina Firm Number P-0551	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Stephen R. Wolfe, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work (Items) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

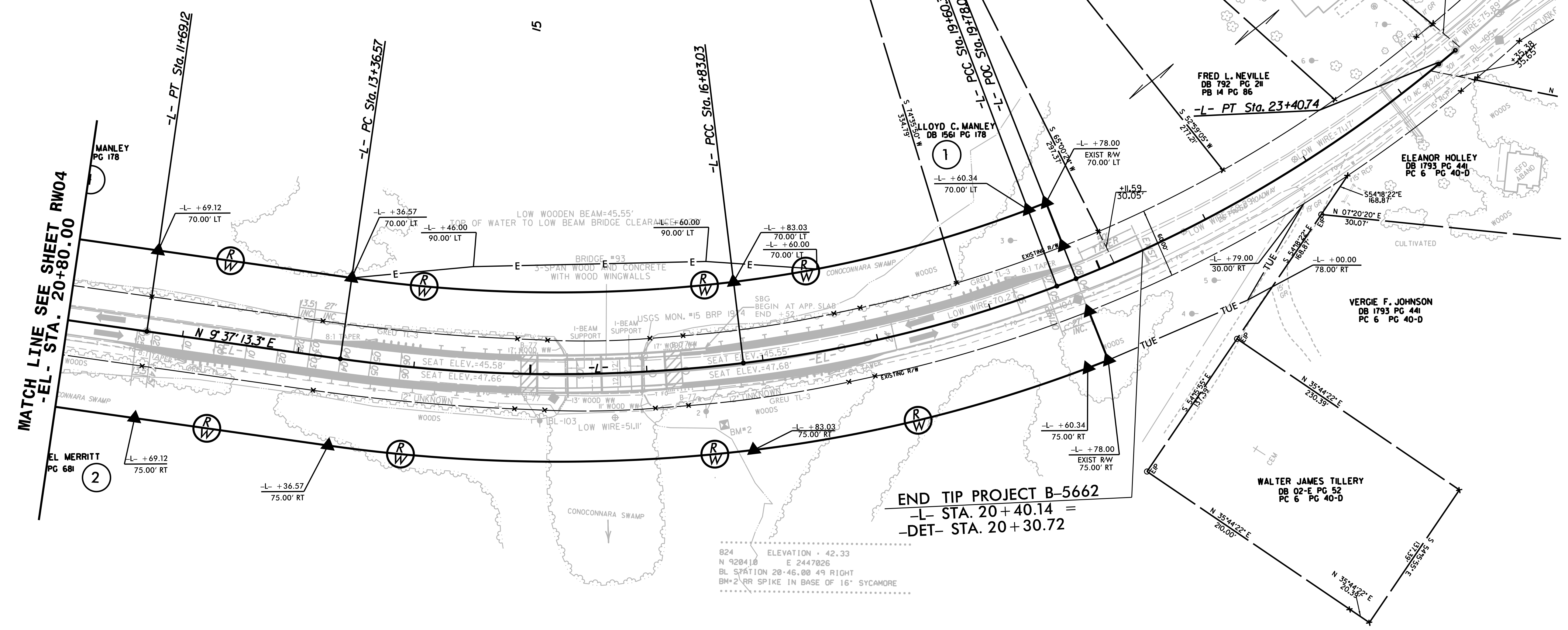
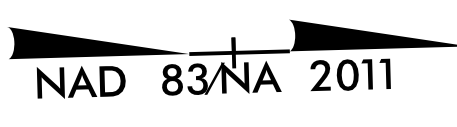
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Witness my original signature, registration number and seal this 17th day of February, 2020.

DocuSigned by:  
  
 Stephen Wolfe  
 308687573840449  
 Professional Land Surveyor      L-3259      Seal  
 PLS #      2/17/2020

-L-			
PI Sta 10+84.56	PI Sta 15+10.79	PI Sta 18+22.36	PI Sta 21+52.29
$\Delta = 0^{\circ} 05' 55.6"$ (LT)	$\Delta = 14^{\circ} 55' 31.0"$ (LT)	$\Delta = 13^{\circ} 48' 58.6"$ (LT)	$\Delta = 18^{\circ} 57' 08.9"$ (LT)
D = 0' 05' 55.6"	D = 4' 18' 28.6"	D = 4' 58' 56.1"	D = 4' 58' 56.1"
L = 169.12'	L = 346.46'	L = 277.31'	L = 380.40'
T = 84.56'	T = 174.22'	T = 139.33'	T = 191.95'
R = 58,000.00'	R = 1,330.00'	R = 1,150.00'	R = 1,150.00'
DS = 60 mph	DS = 60 mph	DS = 55 mph	DS = 55 mph
e = NC	e = .06	e = .06	e = .06
	RO = 162'	RO = 162'	RO = 162'



824 ELEVATION = 42.33  
 N 920410 E 2447826  
 BL STATION 20+46.00 49 RIGHT  
 BM#2 RR SPIKE IN BASE OF 16' SYCAMORE

END TIP PROJECT B-5662  
 -L- STA. 20+40.14 =  
 -DET- STA. 20+30.72

**NOTES:**

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- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

REVISIONS

MATCH LINE SEE SHEET RW04  
 -EL- STA. 20+80.00

17-FEB-2020 08:43  
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