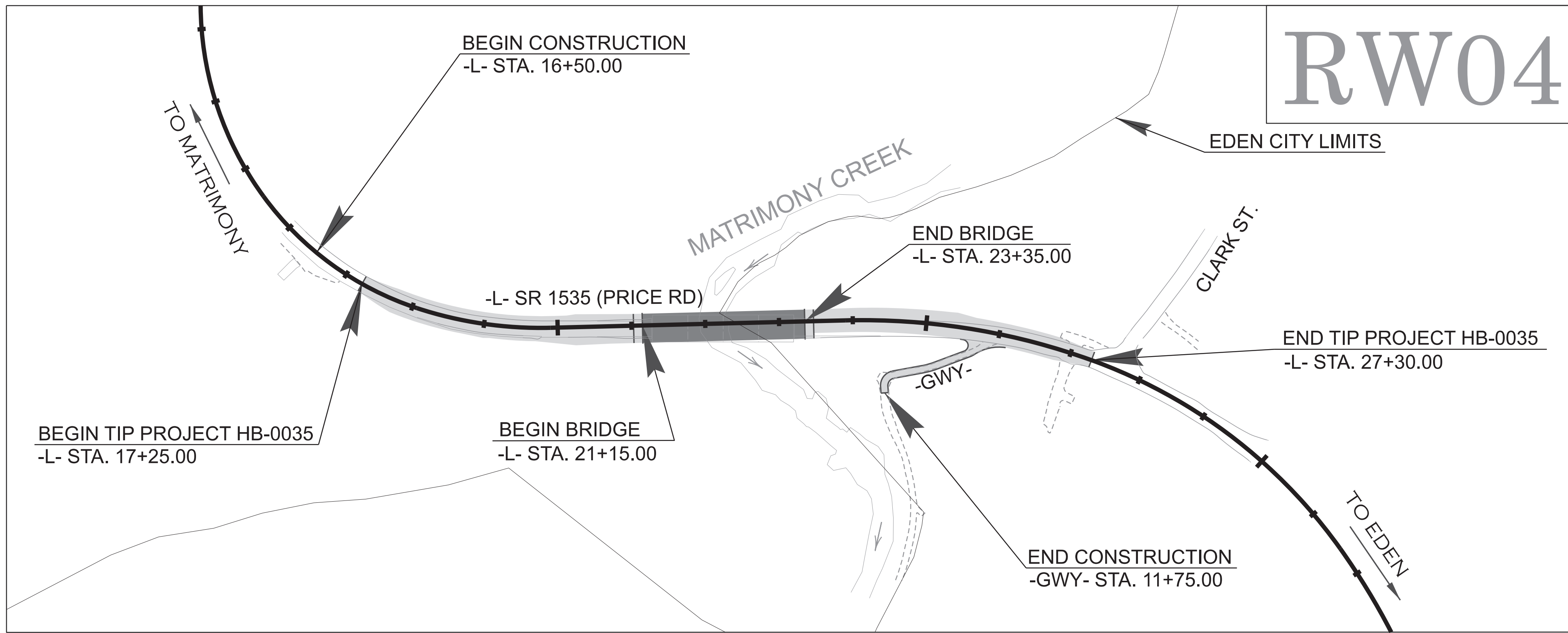
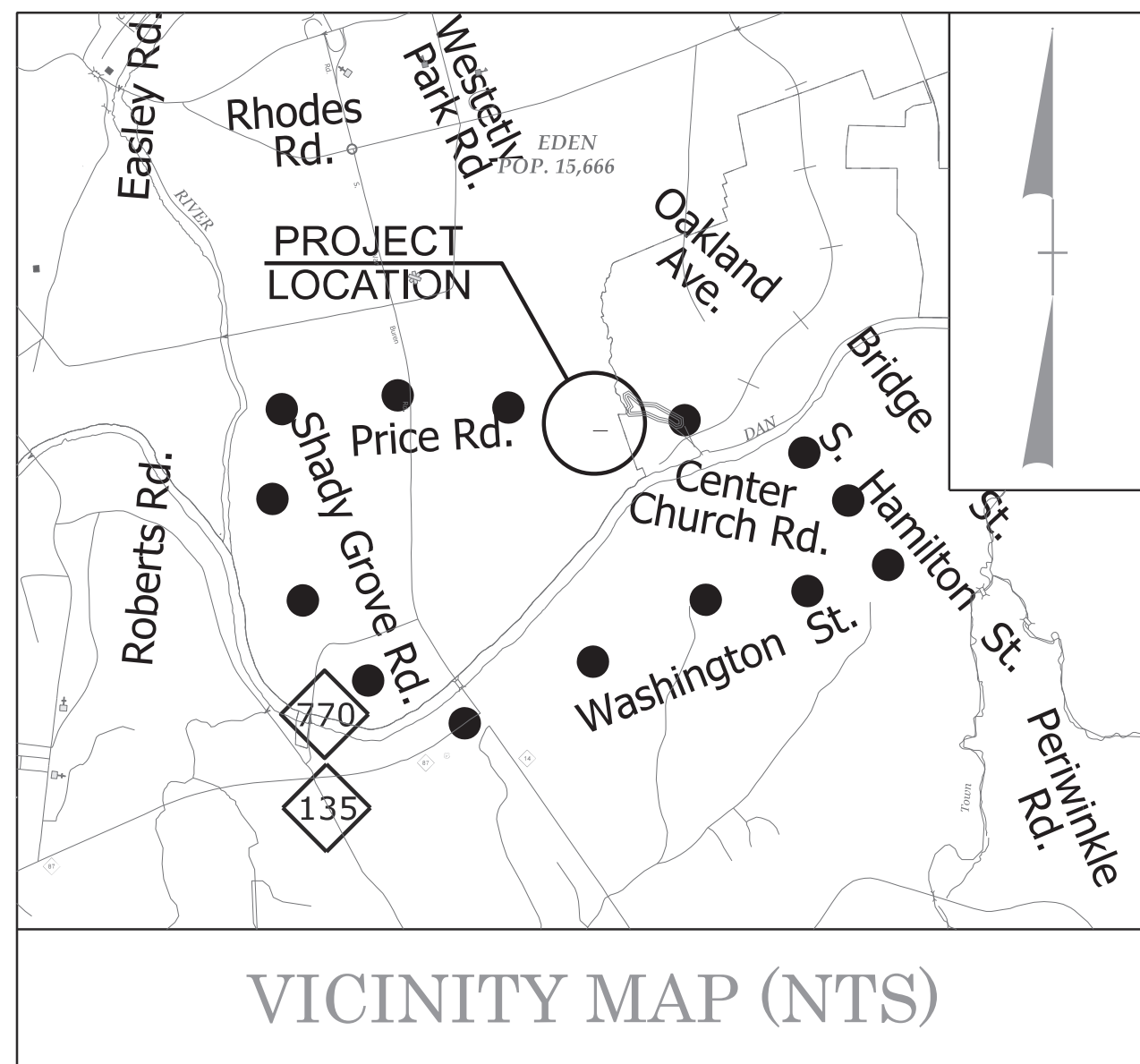


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HB-0035	RW01	8

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

-ROCKINGHAM - COUNTY



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT 780177-2 WITH NAD82/NA2011 STATE PLANE GRID COORDINATES OF NORTHING: 1000678.329 EASTING: 1769607.838 ELEVATION: 597.93 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99991460 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

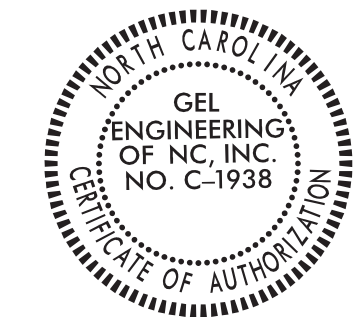
Prepared in the Office of:

GEL SOLUTIONS
an Affiliate of
THE GEL GROUP, INC.
111 CREEK RIDGE ROAD
SUITE C
GREENSBORO, NC 27406
(336) 516-9840
WWW.GEL-SOLUTIONS.COM

2024 STANDARD SPECIFICATIONS

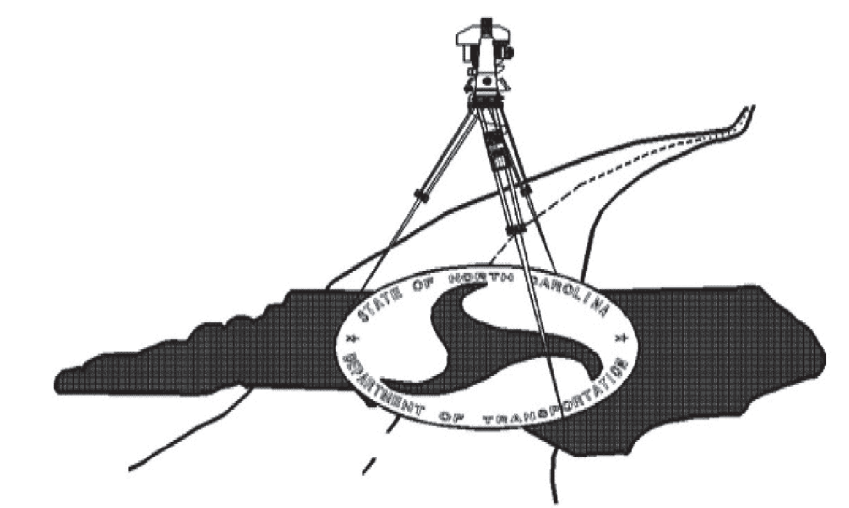
RIGHT OF WAY DATE: JANUARY 24, 2025
LETTING DATE: JULY 21, 2026

PROFESSIONAL LAND SURVEYOR



Digitally signed by
Parks H. Icenhour, Jr.
Date: 2026.05.11
13:36:58 -04'00'

SIGNATURE: DATE:



09/08/2019

TIP PROJECT: HB-0035

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

I, Parks H Icenhour Jr, PLS, certify that the Project Control was performed by others from an actual GPS survey made by others and the following information was used to perform the survey:

Class of survey: AA
Type of GPS field procedure: RTN
Dates of survey: N/A
Datum/Epoch: NAD 83/NA2011
Published/Fixed-control use: N/A
Localized around: 780177-2
Northing: 1000678.329
Easting: 1769607.838
Combined grid factor: 0.99991460
Geoid model: G12BNC
Units: US Survey FT

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 7-27-2023 to 7-31-2023, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

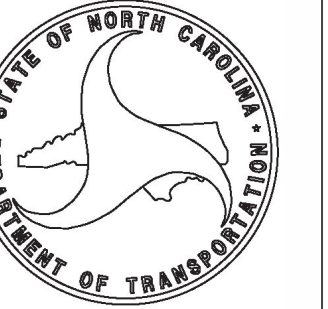
This 11th day of May, 2026.

Digitally signed by Parks H. Icenhour, Jr.
Date: 2026.05.11 13:34:08 -04'00'
Professional Land Surveyor L-3996

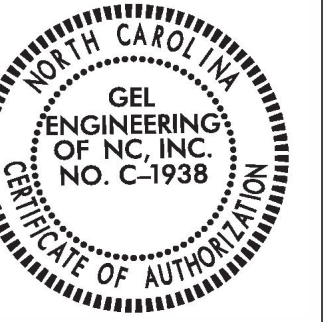
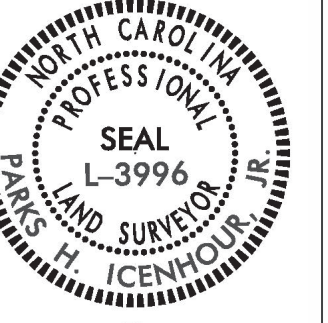
HB-0035

R/W 02C-1

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION



PROFESSIONAL LAND SURVEYOR

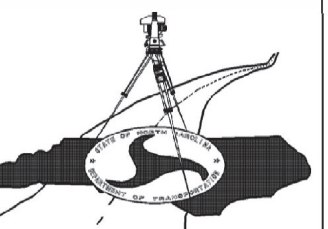


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES ARE COMPLETED

2024 STANDARD SPECIFICATIONS

TIP PROJECT: HB-0035
County: Rockingham

PREPARED FOR

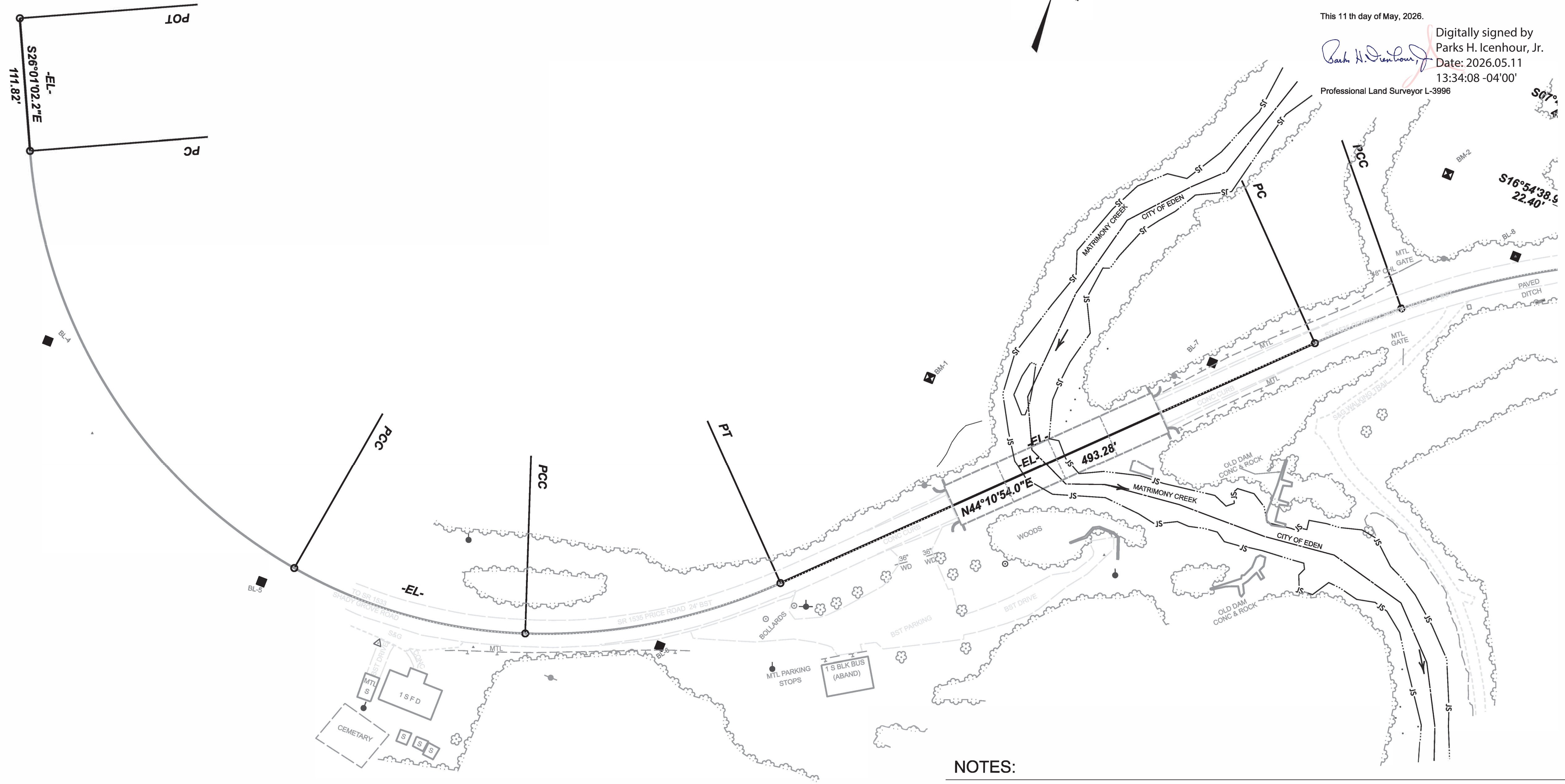


LOCATION AND SURVEYS UNIT

PREPARED BY

GEL SOLUTIONS

an Affiliate of THE GEL GROUP, INC.
111 CREEK RIDGE ROAD
SUITE C
GREENSBORO, NC 27406
(336) 516-9840
WWW.GEL-SOLUTIONS.COM



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.

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BASELINE POINTS TABLE				
POINT	DESC	NORTH	EAST	ELEVATION
1	780177-1	1000832.055	1770032.267	595.37
2	780177-2	1000678.329	1769607.838	597.93
3	BL-3	1000446.442	1767940.126	634.91
4	BL-4	1000027.458	1768158.002	606.43
5	BL-5	999904.902	1768399.895	593.41
6	BL-6	999977.935	1768731.680	577.69
7	BL-7	1000371.370	1769076.068	567.13
8	BL-8	1000548.494	1769280.624	575.69
9	BL-9	1000560.272	1770095.955	615.93
10	BY-10	1000692.832	1769388.955	583.02

BENCHMARK TABLE				
BENCHMARK	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM1	1000271.942	1768859.682	561.82	RR SPIKE IN ROOT OF 20" SYCAMORE
BM2	1000592.046	1769202.19	577.13	RR SPIKE IN ROOT OF 30" WILLOW OAK

I, Parks H Icenhour Jr, PLS, certify that the Project Control was performed by others from an actual GPS survey made by others and the following information was used to perform the survey:

Class of survey: AA
 Type of GPS field procedure: RTN
 Dates of survey: N/A
 Datum/Epoch: NAD 83/NA2011
 Published/Fixed-control use: N/A
 Localized around: 780177-2
 Northing: 1000678.329
 Easting: 1769607.838
 Combined grid factor: 0.99991460
 Geoid model: G12BNC
 Units: US Survey FT

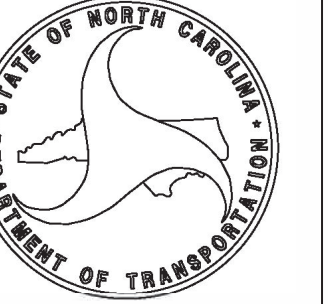
I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 7-27-2023 to 7-31-2023, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 11th day of May, 2026.
 Digitally signed by
 Parks H. Icenhour, Jr.
 Date: 2026.05.11
 13:21:02 -04'00'
 Professional Land Surveyor L-3996

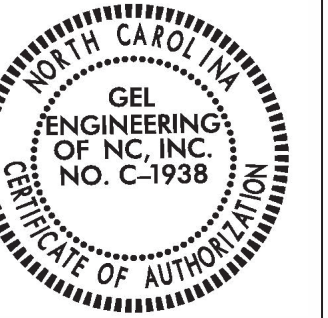
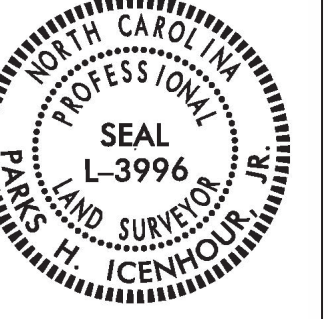
HB-0035

R/W 02C-3

NORTH CAROLINA
 DEPARTMENT
 OF TRANSPORTATION



PROFESSIONAL LAND
 SURVEYOR

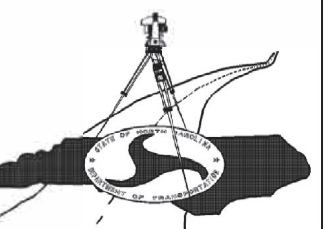


DOCUMENT NOT CONSIDERED
 FINAL UNLESS ALL SIGNATURES
 ARE COMPLETED

2018 STANDARD
 SPECIFICATIONS

TIP PROJECT: HB-0035
 County: Rockingham

PREPARED FOR



LOCATION AND
 SURVEYS UNIT

PREPARED BY

GEL SOLUTIONS

an Affiliate of
 THE GEL GROUP, INC.
 111 CREEK RIDGE ROAD
 SUITE C
 GREENSBORO, NC 27406
 (336) 516-9840
 WWW.GEL-SOLUTIONS.COM

NOTES:

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

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EXISTING ALIGNMENT NAME:al	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
POINT	1000271.0100	1768036.0810							
START	1000271.0100	1768036.0810	S26°01'02.2"E	111.8183					
LINE									
PC	1000170.5232	1768085.1282							
CURVE					55°51'48.7" Left	12°54'16.0"	432.901	235.401	444.000
PCC	999925.7308	1768421.4276							
CURVE					27°50'08.7" Left	13°38'30.7"	204.047	104.079	420.000
PCC	999946.1442	1768622.4397							
CURVE					26°06'06.4" Left	11°48'48.8"	220.948	112.425	485.000
PT	1000064.6964	1768806.6265							
LINE	1000418.4411	1769150.4078	N44°10'54.0"E	493.2756					
PC	1000418.4411	1769150.4078							
CURVE					04°43'59.4" Right	06°01'52.1"	78.479	39.262	950.000
PCC	1000472.3991	1769207.3636							
CURVE					49°46'26.0" Right	08°04'11.4"	616.790	329.374	710.000
PCC	1000639.1001	1769781.2186							
CURVE					10°38'41.0" Right	06°09'39.0"	172.780	86.640	930.000
PT	1000597.3285	1769948.6176							
LINE	1000597.3285	1769948.6176	S70°39'59.6"E	153.1435					
END	1000546.6280	1770093.1250							

EXISTING ALIGNMENT NAME:ay	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
POINT									
START	1000986.3940	1769306.7410							
LINE			S15°03'27.9"E	122.2698					
PC	1000888.3224	1769338.5058							
CURVE					07°17'27.4" Right	03°55'27.7"	185.786	93.019	1460.000
PT	1000686.3323	1769375.2420							
LINE	1000640.9249	1769381.4352	S07°46'00.5"E	45.8278					
PC	1000640.9249	1769381.4352							
CURVE					09°08'38.4" Left	30°09'20.4"	30.323	15.194	190.000
PT	1000611.3341	1769387.9081							
LINE	1000589.9033	1769394.4237	S16°54'38.9"E	22.3994					
END	1000589.9033	1769394.4237							

I, Parks H Icenhour Jr, PLS, certify that the Project Control was performed by others from an actual GPS survey made by others and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: **RTN**
 Dates of survey: **N/A**
 Datum/Epoch: **NAD 83/NA2011**
 Published/Fixed-control use: **N/A**
 Localized around: **780177-2**
 Northing: **1000678.329**
 Easting: **1769607.838**
 Combined grid factor: **0.99991460**
 Geoid model: **G12BNC**
 Units: **US Survey FT**

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 7-27-2023 to 7-31-2023, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

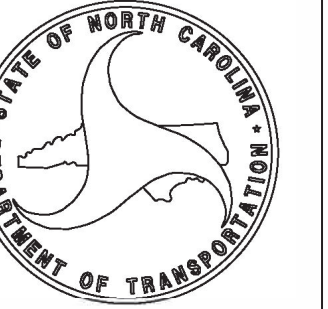
This 11th day of May, 2026.
 Digitally signed by
 Parks H. Icenhour, Jr.
 Date: 2026.05.11
 13:23:39 -04'00'

Professional Land Surveyor L-3996

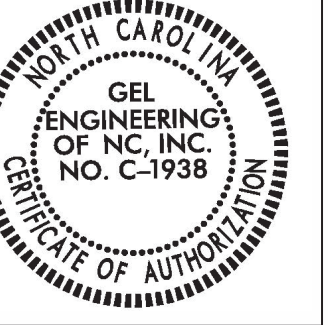
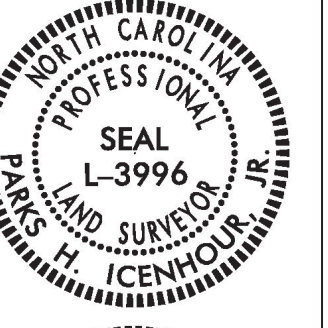
HB-0035

R/W | Q2C-4

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION

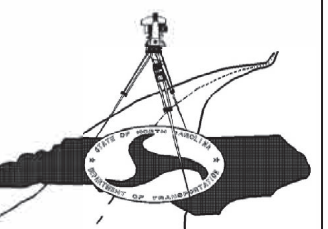


PROFESSIONAL LAND
SURVEYOR



TIP PROJECT: HB-0035
 County: Rockingham

PREPARED FOR



LOCATION AND
SURVEYS UNIT

PREPARED BY

GEL SOLUTIONS
 an Affiliate of
 THE GEL GROUP, INC.
 111 CREEK RIDGE ROAD
 SUITE C
 GREENSBORO, NC 27406
 (336) 516-9840
 WWW.GEL-SOLUTIONS.COM

NOTES:

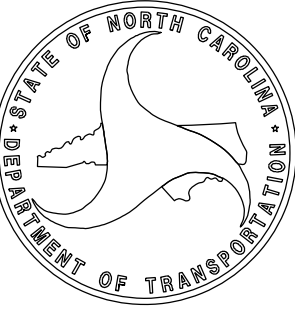
1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

PROPOSED ALIGNMENT CONTROL SHEET

HB-0035

R/W 020-1

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION



I, PARKS H ICENHOUR JR, PLS. 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.

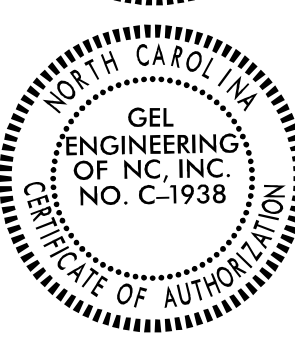
THIS 16TH DAY OF APRIL, 2025.

Parks H. Icenhour Jr.

Digitally signed by Parks H. Icenhour, Jr.
Date: 2025.04.30 21:06:18
-04'00'

PROFESSIONAL LAND SURVEYOR L-3996

PROFESSIONAL LAND SURVEYOR

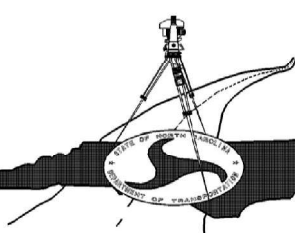


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES ARE COMPLETED

2024 STANDARD SPECIFICATIONS

TIP PROJECT: HB-0035
County: ROCKINGHAM

PREPARED FOR



LOCATION AND SURVEYS UNIT

PREPARED BY

GEL SOLUTIONS
an Affiliate of
THE GEL GROUP, INC.
111 CREEK RIDGE ROAD
SUITE C
GREENSBORO, NC 27406
(336) 516-9840
WWW.GEL-SOLUTIONS.COM

PROPOSED ALIGNMENT: L												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	1000271.0100	1768036.0810	S26°01'02.2"E	111.8183							
PC	11+11.82	1000170.5232	1768085.1292	S53°56'56.6"E	415.9566	55°51'48.7"	12°54'16.0"	432.9010	235.4011	444.0000		
PCC	15+44.72	999925.7308	1768421.4276	N80°17'08.7"E	257.2511	35°40'00.9"	13°38'30.7"	261.4522	135.1179	420.0000		
PCC	18+06.17	999969.1380	1768674.9901	N52°36'01.9"E	183.0764	19°42'12.6"	10°42'34.2"	183.9817	92.9083	535.0000		
PT	19+90.15	1000080.3329	1768820.4297	N42°44'55.6"E	400.0816							
PC	23+90.23	1000374.1277	1769091.9991	N53°21'37.5"E	336.9964	21°13'23.8"	06°15'42.6"	338.9308	171.4300	915.0000		
PCC	27+29.17	1000575.2402	1769362.4069	N81°19'49.4"E	423.6524	34°43'00.0"	08°04'11.4"	430.2032	221.9336	710.0000		
PCC	31+59.37	1000639.1001	1769781.2186	S75°59'20.1"E	172.5321	10°38'41.0"	06°09'39.0"	172.7804	86.6396	930.0000		
PT	33+32.15	1000597.3285	1769948.6176	S70°39'59.6"E	153.1435							
END	34+85.29	1000546.6280	1770093.1250									

PROPOSED ALIGNMENT: GWY												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	1000496.8799	1769231.0702	S35°36'56.8"E	11.5666							
PC	10+11.57	1000487.4770	1769237.8060	S05°59'39.3"E	24.7134	59°14'34.9"	229°10'59.2"	25.8496	14.2144	25.0000		
PT	10+37.42	1000462.8987	1769240.3868	S23°37'38.1"W	48.1380							
PC	10+85.55	1000418.7960	1769221.0938	S28°42'01.3"W	17.6854	10°08'46.4"	57°17'44.8"	17.7085	8.8775	100.0000		
PT	11+03.26	1000403.2834	1769212.6008	S33°46'24.5"W	41.0008							
PC	11+44.26	1000369.2018	1769189.8080	S08°02'52.6"E	20.0043	83°38'34.3"	21°58'18.7"	21.8976	13.4216	15.0000		
PT	11+66.16	1000349.3944	1769192.6086	S49°52'09.8"E	19.8563							
END	11+86.02	1000336.5964	1769207.7903									

NOTES:

1. THE PROPOSED ALIGNMENT 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.

RIGHT OF WAY CONTROL SHEET

HB0035

R/W 03E-1

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION

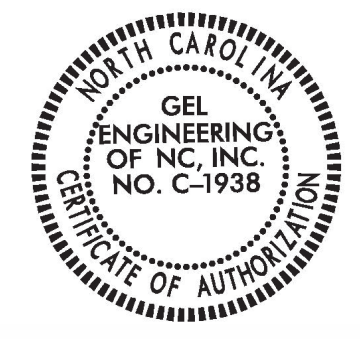


I, PARKS H ICENHOUR JR, PLS, CERTIFY THAT THE RIGHT OF WAY AND PERMANENT EASEMENT MONUMENTATION FOR THIS PROJECT SHOWN HEREIN WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; THAT ALL HORIZONTAL CLOSURES HAD A MINIMUM RATIO OF PRECISION OF 1:10,000 (CLASS A). FIELD WORK WAS PERFORMED FROM 3/17/2025 TO 4/07/2025, AND ALL COORDINATES ARE BASED ON NAD83/NA 2011; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.1600 AS APPLICABLE.

PROFESSIONAL LAND SURVEYOR



THIS 11TH DAY OF May, 2026
 Digitally signed by Parks H. Icenhour, Jr.
 Date: 2026.05.11 13:14:12 -04'00'
 PROFESSIONAL LAND SURVEYOR L-3996



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES ARE COMPLETED

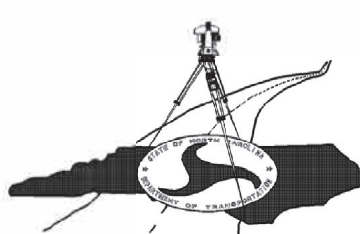
2024 STANDARD SPECIFICATIONS

PERMANENT ROW MARKER IRON PIN AND CAP:					
POINT	STATION	OFFSET	NORTH	EAST	COMMENT
15	17+25.00	-30	999967.5318	1768591.345	
14	17+25.00	-45	999981.916	1768587.091	
24	18+06.17	-45	1000009.036	1768654.178	
23	18+65.00	31.26	999973.1917	1768742.962	
22	18+65.00	50	999957.6296	1768753.399	
25	19+00.00	-45	1000055.242	1768726.505	
27	19+90.15	-50	1000114.272	1768783.713	
29	19+90.15	50	1000046.394	1768857.147	MAG NAIL
35	21+20.00	-75	1000226.593	1768853.493	
34	21+20.00	-50	1000209.624	1768871.851	
33	21+50.00	50	1000163.775	1768965.648	
36	23+30.00	-75	1000380.804	1768996.037	
50	23+40.00	85	1000279.542	1769120.319	
51	24+30.00	41.14	1000373.521	1769148.586	
49	24+30.00	80	1000345.929	1769175.949	
37	24+30.00	-30	1000424.035	1769098.493	
39	25+25.00	-30	1000489.385	1769171.617	
40	26+00.00	-27.4	1000533.254	1769235.353	

PERMANENT EASEMENT MARKER IRON PIN AND CAP:					
POINT	STATION	OFFSET	NORTH	EAST	COMMENT
18	18+10.00	100.00	999882.5915	1768725.2602	
19	18+10.00	30.60	999943.8936	1768692.7233	
20	18+40.00	100.00	999900.1578	1768756.2277	

TIP PROJECT: HB-0035
 County: ROCKINGHAM

PREPARED FOR

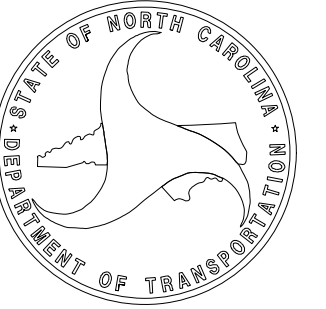


LOCATION AND SURVEYS UNIT

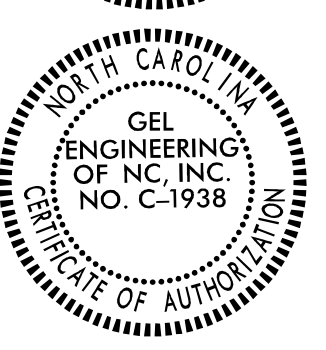
PREPARED BY

GEL SOLUTIONS
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 111 CREEK RIDGE ROAD
 SUITE C
 GREENSBORO, NC 27406
 (336) 516-9840
 WWW.GEL-SOLUTIONS.COM

NOTES:
 1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.



PROFESSIONAL LAND SURVEYOR



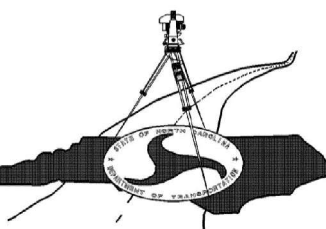
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES ARE COMPLETED

2024 STANDARD SPECIFICATIONS

TIP PROJECT: HB-0035

County: ROCKINGHAM

PREPARED FOR



LOCATION AND SURVEYS UNIT

PREPARED BY

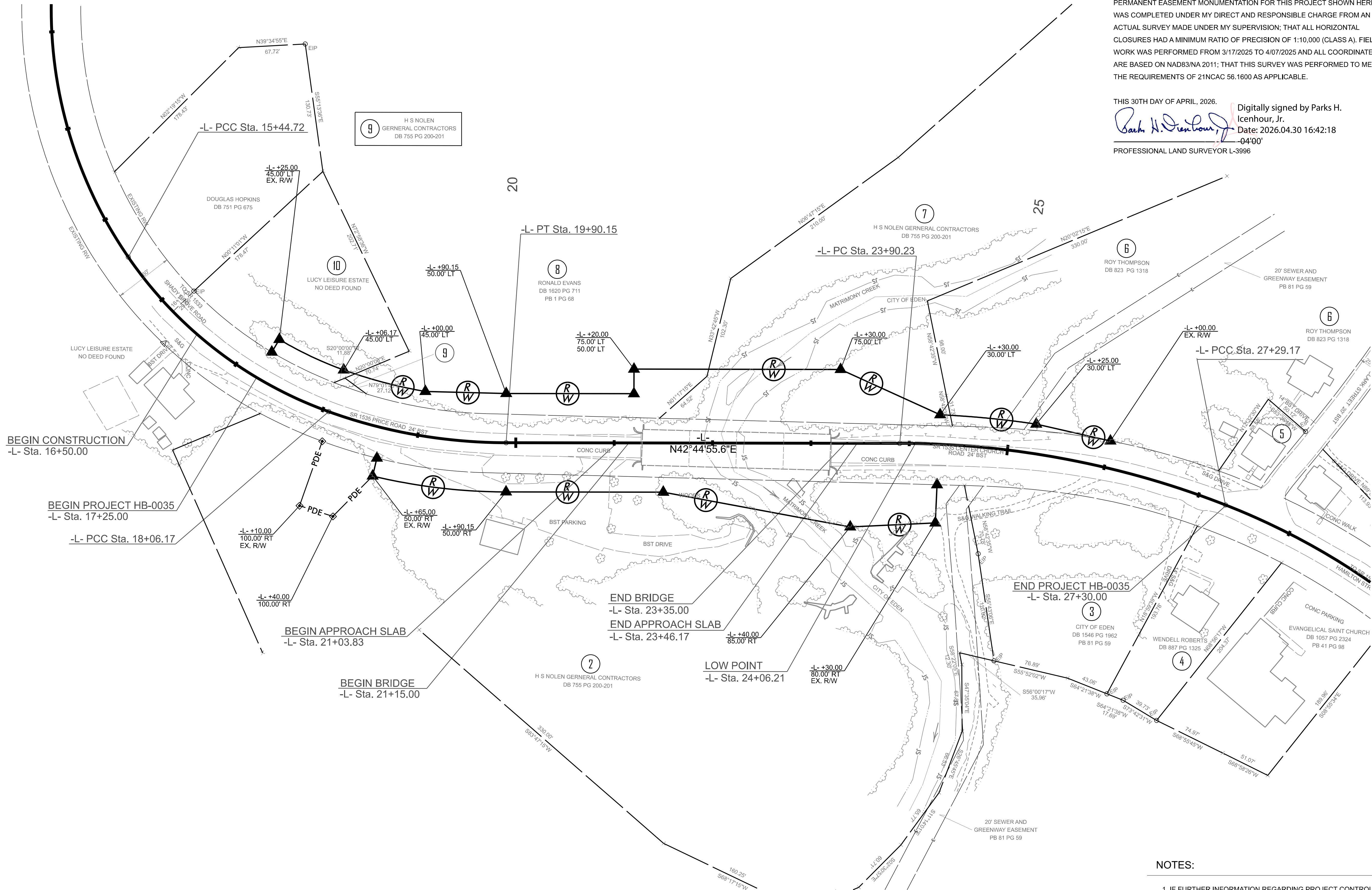
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111 CREEK RIDGE ROAD
SUITE C
GREENSBORO, NC 27406
(336) 516-9840
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I, PARKS H ICENHOUR JR., PLS. CERTIFY THAT THE RIGHT OF WAY AND PERMANENT EASEMENT MONUMENTATION FOR THIS PROJECT SHOWN HEREIN WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; THAT ALL HORIZONTAL CLOSURES HAD A MINIMUM RATIO OF PRECISION OF 1:10,000 (CLASS A). FIELD WORK WAS PERFORMED FROM 3/17/2025 TO 4/07/2025 AND ALL COORDINATES ARE BASED ON NAD83/NA 2011; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.1600 AS APPLICABLE.

THIS 30TH DAY OF APRIL, 2026.

Digitally signed by Parks H. Icenhour, Jr.
Date: 2026.04.30 16:42:18 -04'00'
PROFESSIONAL LAND SURVEYOR L-3996



NOTES:

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