

**This electronic collection of documents is provided
for the convenience of the user
and is Not a Certified Document –**

**The documents contained herein were originally issued
and sealed by the individuals whose names and license
numbers appear on each page, on the dates appearing
with their signature on that page.**

**This file or an individual page
shall not be considered a certified document.**

T.I.P.: U-3338B

CONTRACT: C203496

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
NEW HANOVER COUNTY

LOCATION: WILMINGTON - SR 1175 (KERR AVE) FROM
RANDALL PARKWAY TO SR 2649 (MARTIN
LUTHER KING, JR. PARKWAY)

TIP NO.	SHEET NO.
U-3338B	SIGN-1
APPROVED: <i>Jason Hamilton, PE</i>	
DATE: 12/10/2014	
SEAL	

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	2700	L.F.
4096000000	904	SIGN ERECTION, TYPE D	2	EA.
4102000000	904	SIGN ERECTION, TYPE E	131	EA.
4108000000	904	SIGN ERECTION, TYPE F	15	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	27	EA.

GENERAL NOTES

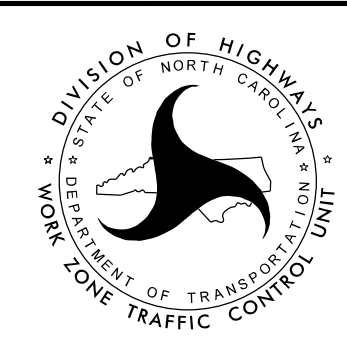
- . SIGNS FURNISHED BY STATE
- . ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2	SIGN DETAIL SHEET
SIGN-3	TYPE E AND F SIGNS
SIGN-4-9	EXISTING AND PROPOSED SIGN DETAIL

PLAN REVIEWED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

AYMAN ALQUDWAH SIGNING & DELINEATION REGIONAL ENGINEER
ERIC WARD SIGNING & DELINEATION DESIGN ENGINEER



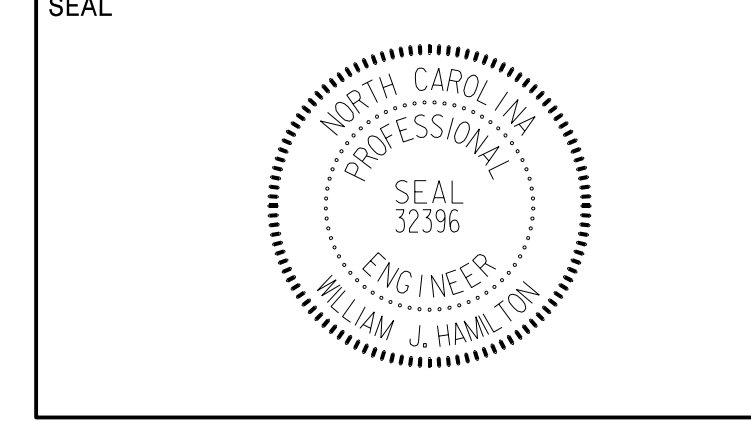
PLAN PREPARED BY: Ramey Kemp & Associates

W.JASON HAMILTON PROJECT MANAGER
NICHOLAS E. BURNS PROJECT ENGINEER



APPROVED: *Jason Hamilton, P.E.*
AD5600704648484

DATE: 12/10/2014



<p>SIGN NUMBER: 301, 302 TYPE: D QUANTITY: 2 SIGN WIDTH: 2'-6" HEIGHT: 3'-6" TOTAL AREA: 8.8 Sq.Ft.</p> <p>BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.5" RADII: 3"</p> <p>NO. Z BARS: LENGTH:</p> <p>USE NOTES: 1,2 1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting. 2. Background shall be Grade C reflective sheeting.</p>	<p>BACKG COLOR: Green COPY COLOR: White</p> <table border="1"> <thead> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> </thead> <tbody> <tr> <td>AR_Type D</td> <td>11.3</td> <td>3.5</td> <td>5</td> <td>7.5</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> <p>MAT'L: 0.125" (3.2 mm) ALUMINUM</p>	SYMBOL	X	Y	WID	HT	AR_Type D	11.3	3.5	5	7.5																																														<p>DESIGN BY: NE BURNS PROJECT ID: U-3338B</p> <p>CHECKED BY: WJ HAMILTON DIV: 3</p> <p>DATE: Dec 04, 2014</p>
SYMBOL	X	Y	WID	HT																																																					
AR_Type D	11.3	3.5	5	7.5																																																					

BORDER
 R=3"
 TH=0.5"

Spacing Factor is 1 unless specified otherwise

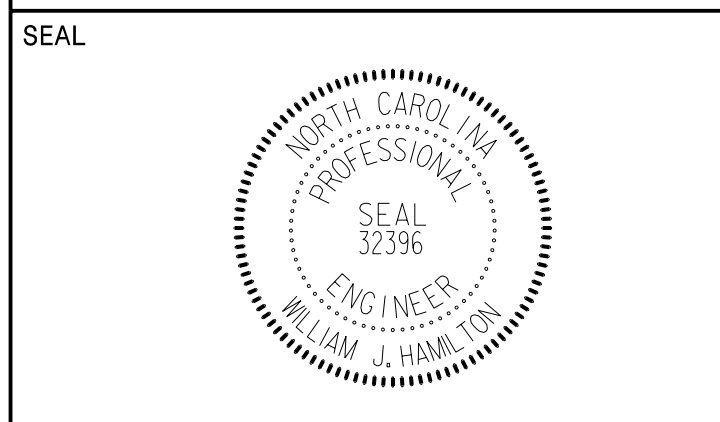
LETTER POSITIONS

Letter spacings are to start of next letter											Series/Size
	D	M	V								Text Length
	9.8	3.6	3.7	3	9.8						D 2000 10.4
	4.6	3.6	3.4	1.2	3.6	3.2	3.1	2.7	4.6		D 2000 20.9
	4.7	3.1	1.5	3.6	3.2	3.4	3.4	2.5	4.7		D 2000 20.6
	6.3	3.7	3.1	3.1	1.5	3.6	2.5	6.3			D 2000 17.5


FILENAME: U-3338B_Type EF Signs NORTH CAROLINA D.O.T. SIGN DETAIL

SYSTEMS DESIGN
 PRESERVE

APPROVED: Jason Hamilton, PE
 DATE: 12/10/2014



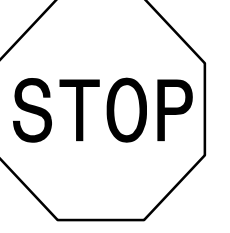
401 QUANTITY REQ'D 4



30 x 36
R2-1

ONE "U" POST PER SIGN


406 QUANTITY REQ'D 12



36 X 36
R1-1

ONE "U" POST PER SIGN
 MOUNTED BELOW SIGN 411
 IN 9 INSTALLATIONS

411 QUANTITY REQ'D 9



36 X 12
R6-1 (R)

ONE "U" POST PER SIGN


501 515



2 - 24" X 12"
 2 - 24" X 12"
 2 - 24" X 12"
 2 - 24" X 24"
 2 - 21" X 15"

TWO "U" POSTS PER SIGN


506



1 - 24" X 12"
 1 - 24" X 12"
 1 - 24" X 24"
 1 - 21" X 15"

ONE "U" POST PER SIGN


402 QUANTITY REQ'D 10



36 X 36
R5-1

ONE "U" POST PER SIGN


407 QUANTITY REQ'D 10



54 X 18
R6-1 (R)

TWO "U" POSTS PER SIGN

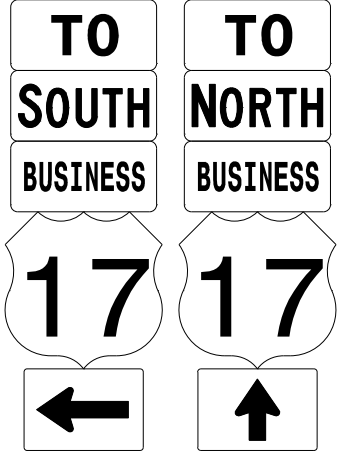
412 QUANTITY REQ'D 6



30 x 36
R2-1

TWO "U" POSTS PER SIGN


502



2 - 24" X 12"
 2 - 24" X 12"
 2 - 24" X 12"
 2 - 24" X 24"
 2 - 21" X 15"

TWO "U" POSTS PER SIGN

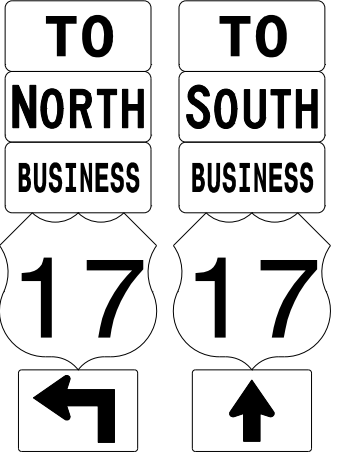
507



1 - 24" X 12"
 1 - 24" X 12"
 1 - 24" X 24"
 1 - 21" X 15"

ONE "U" POST PER SIGN

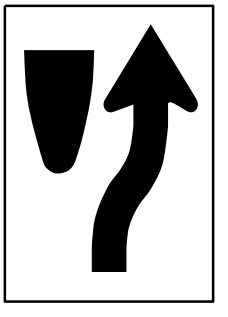
510 514



2 - 24" X 12"
 2 - 24" X 12"
 2 - 24" X 12"
 2 - 24" X 24"
 2 - 21" X 15"

TWO "U" POSTS PER SIGN


403 QUANTITY REQ'D 26



24 X 30
R4-7

ONE "U" POST PER SIGN

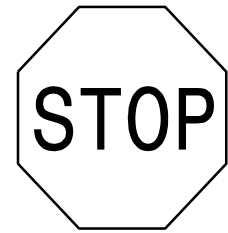
408 QUANTITY REQ'D 20



54 X 18
R6-1 (L)

TWO "U" POSTS PER SIGN
 MOUNTED BACK TO BACK WITH SIGN
 407 IN 8 INSTALLATIONS

413 QUANTITY REQ'D 4



30 X 30
R1-1

ONE "U" POST PER SIGN


503



2 - 24" X 12"
 2 - 24" X 12"
 2 - 24" X 24"
 2 - 21" X 15"

TWO "U" POSTS PER SIGN

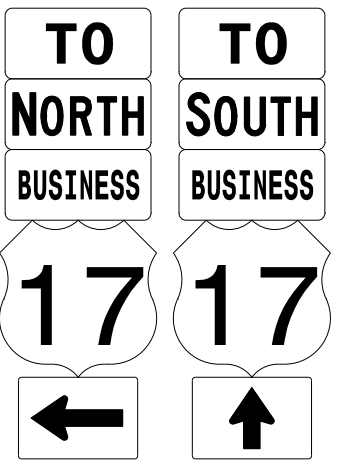
508 512



1 - 24" X 12"
 1 - 24" X 12"
 1 - 24" X 24"

ONE "U" POST PER SIGN

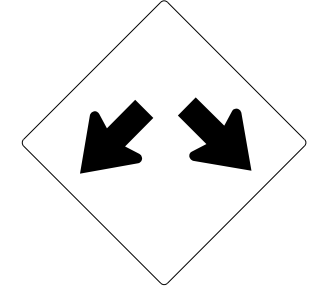
511



2 - 24" X 12"
 2 - 24" X 12"
 2 - 24" X 12"
 2 - 24" X 24"
 2 - 21" X 15"

TWO "U" POSTS PER SIGN

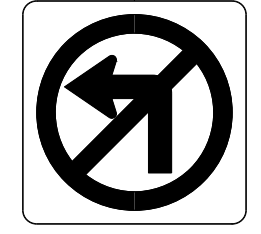
404 QUANTITY REQ'D 5



30 X 30
W12-1

ONE "U" POST PER SIGN


409 QUANTITY REQ'D 2



36 X 36
R3-2

ONE "U" POST PER SIGN

414 QUANTITY REQ'D 4



30 x 36
R2-1

TWO "U" POSTS PER SIGN


504 513



2 - 24" X 12"
 2 - 24" X 12"
 2 - 24" X 24"
 2 - 21" X 15"

TWO "U" POSTS PER SIGN

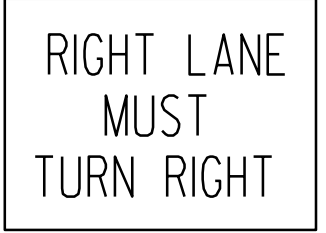
509



1 - 24" X 12"
 1 - 24" X 12"
 1 - 24" X 24"

ONE "U" POST PER SIGN

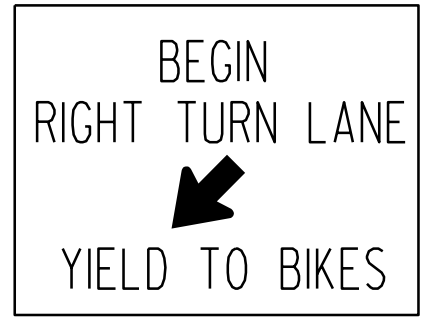
405 QUANTITY REQ'D 8



36 X 36
R3-7

ONE "U" POST PER SIGN

410 QUANTITY REQ'D 11



36 X 30
R4-4

ONE "U" POST PER SIGN

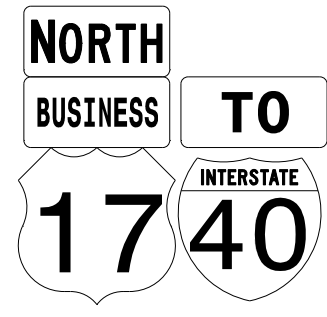
415 QUANTITY REQ'D 4



30 x 36
R2-1

TWO "U" POSTS PER SIGN


505



1 - 24" X 12"
 2 - 24" X 12"
 2 - 24" X 24"

TWO "U" POSTS PER SIGN


510 514



2 - 24" X 12"
 2 - 24" X 12"
 2 - 24" X 12"
 2 - 24" X 24"
 2 - 21" X 15"

TWO "U" POSTS PER SIGN

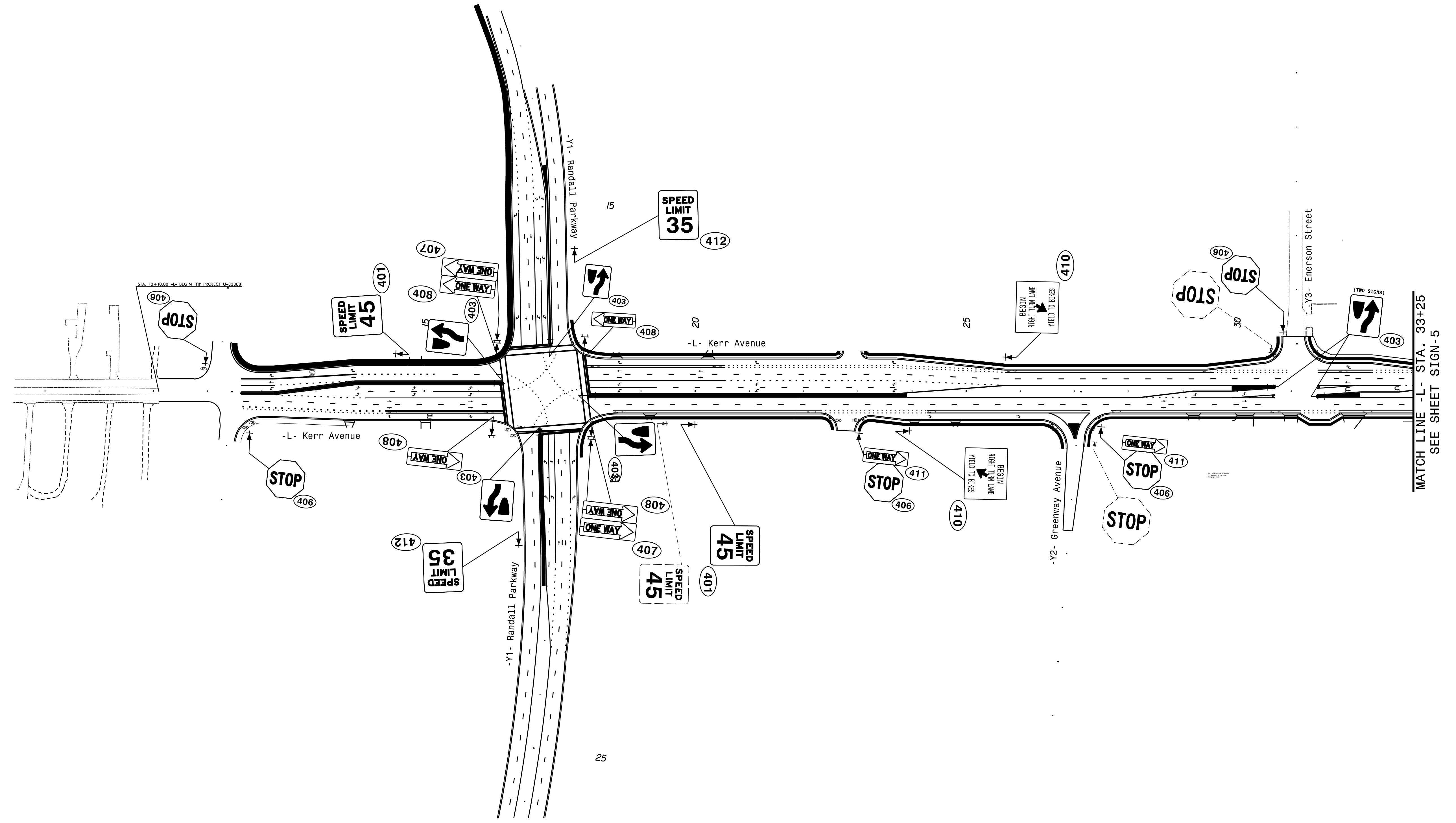
Prepared in the offices of:



RAMEY KEMP ASSOCIATES, INC.
 TRANSPORTATION ENGINEERS
 5100 Fillingim Place, Suite 100
 Raleigh, North Carolina 27609
 919.875.5115 Tel. 919.875.5416 Fax
 www.rameykemp.com

TYPE "E" AND "F" SIGNS

TIP NO. U-3338B	SHEET NO. SIGN-4
APPROVED: <i>Jason Hamilton, PE</i> A05607046484	
DATE: 12/10/2014	
SEAL	



STA. 10+10.00 -+ BEGIN TIP PROJECT U-3338B

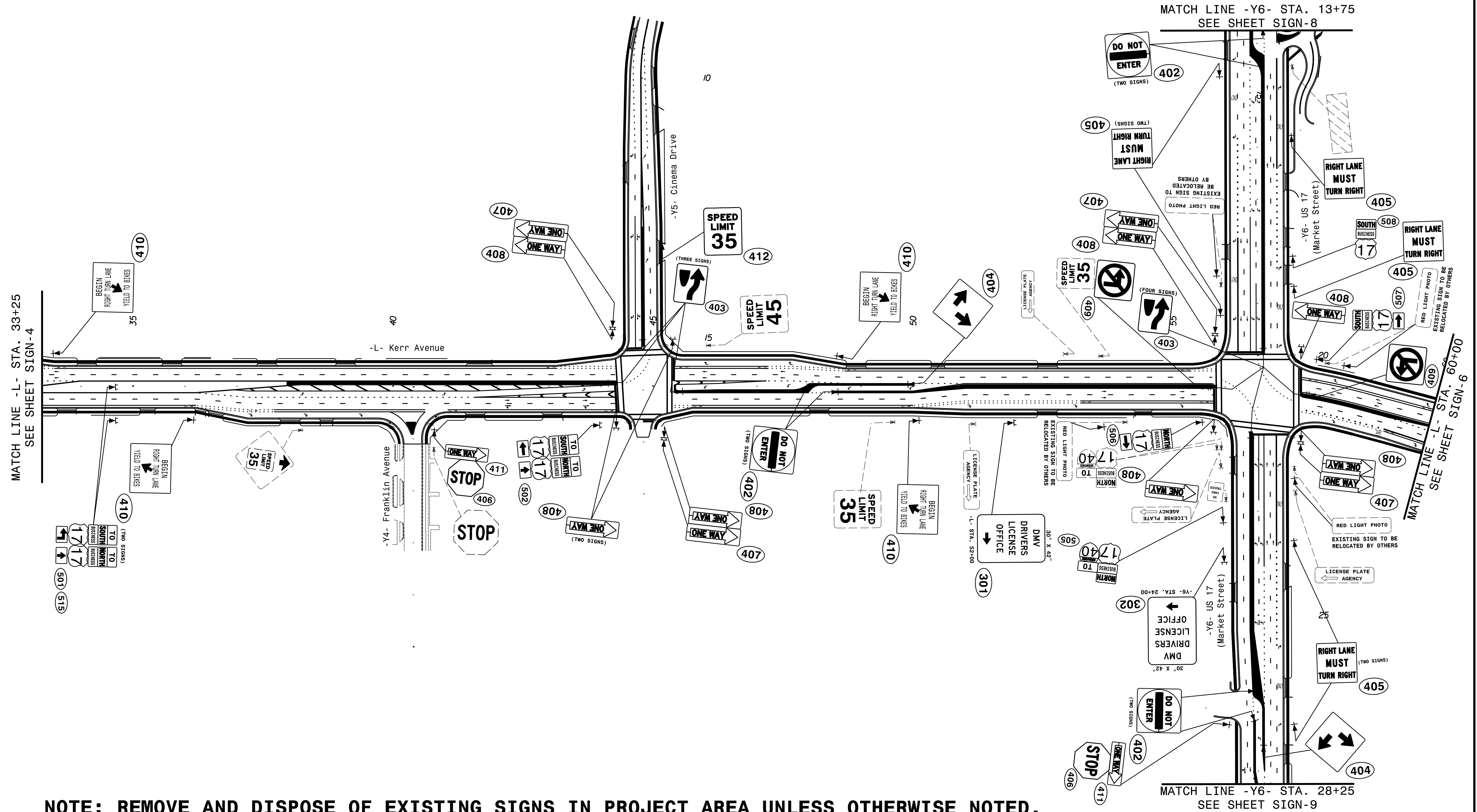
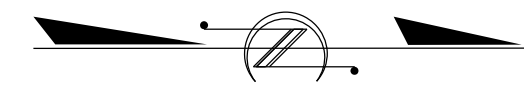
MATCH LINE - L- STA. 33+25
SEE SHEET SIGN-5

NOTE: REMOVE AND DISPOSE OF EXISTING SIGNS IN PROJECT AREA UNLESS OTHERWISE NOTED.

Prepared in the offices of:
RAMEY KEMP & ASSOCIATES, INC.
TRANSPORTATION ENGINEERS
 608 Farrington Place, Suite 100
 Raleigh, North Carolina 27609
 919.872.5115 Tel. 919.878.5416 Fax.
 www.rameykemp.com

**EXISTING AND PROPOSED
SIGNING DETAIL**

TIP NO. U-3338B	SHEET NO. SIGN-5
APPROVED: <i>Jason Hamilton, PE</i> AS0607046484	
DATE: 12/10/2014	
SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 32396 WILLIAM J. HAMILTON	



MATCH LINE -L- STA. 33+25
SEE SHEET SIGN-4

MATCH LINE -Y6- STA. 13+75
SEE SHEET SIGN-8

MATCH LINE -L- STA. 60+00
SEE SHEET SIGN-6


MATCH LINE -Y6- STA. 28+25
SEE SHEET SIGN-9

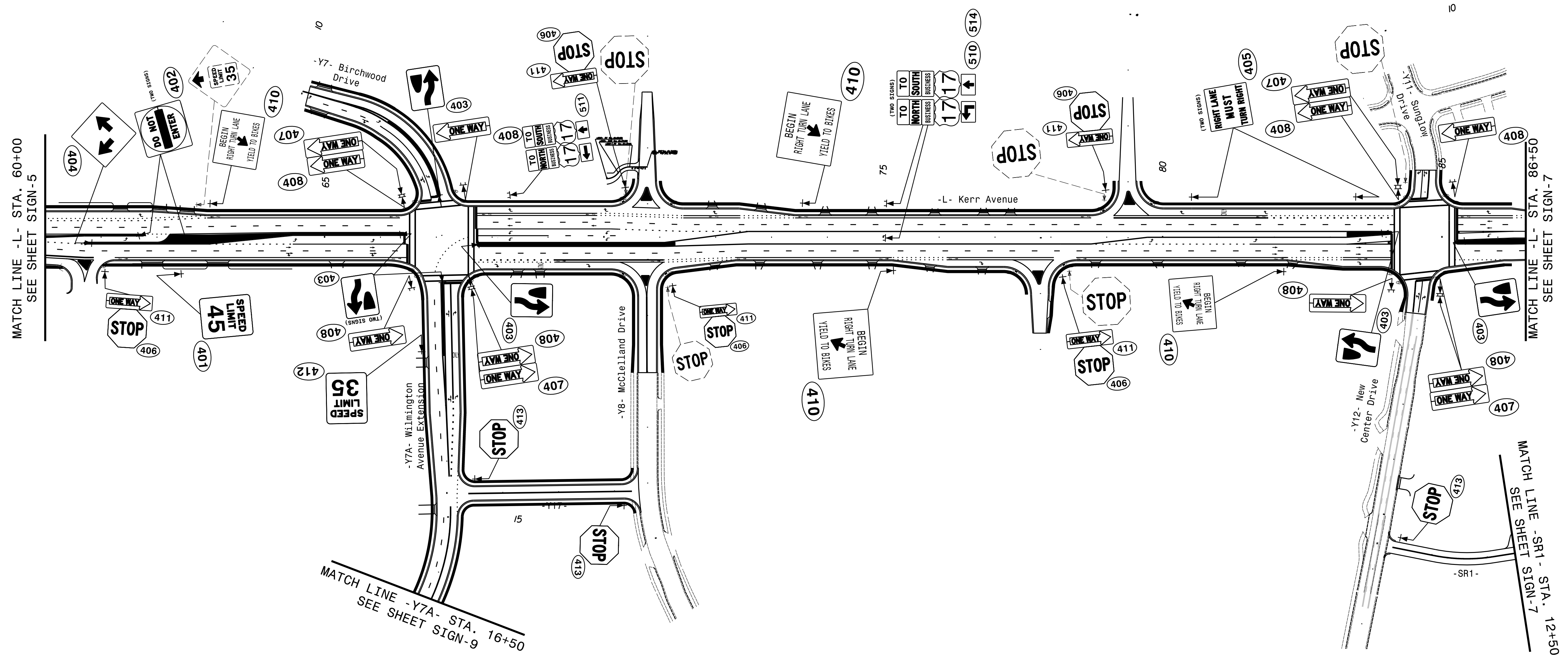
NOTE: REMOVE AND DISPOSE OF EXISTING SIGNS IN PROJECT AREA UNLESS OTHERWISE NOTED.

Prepared in the offices of:

RAMHEY KEMP & ASSOCIATES, INC.
 TRANSPORTATION ENGINEERS
 508 Farrington Place, Suite 100
 Raleigh, North Carolina 27609
 919.872.2115 Tel. 919.878.5416 Fax.
 www.rameykemp.com

**EXISTING AND PROPOSED
SIGNING DETAIL**

TIP NO. U-3338B	SHEET NO. SIGN-6
APPROVED: <i>Jason Hamilton, PE</i> A0560704648484	
DATE: 12/10/2014	
SEAL 	




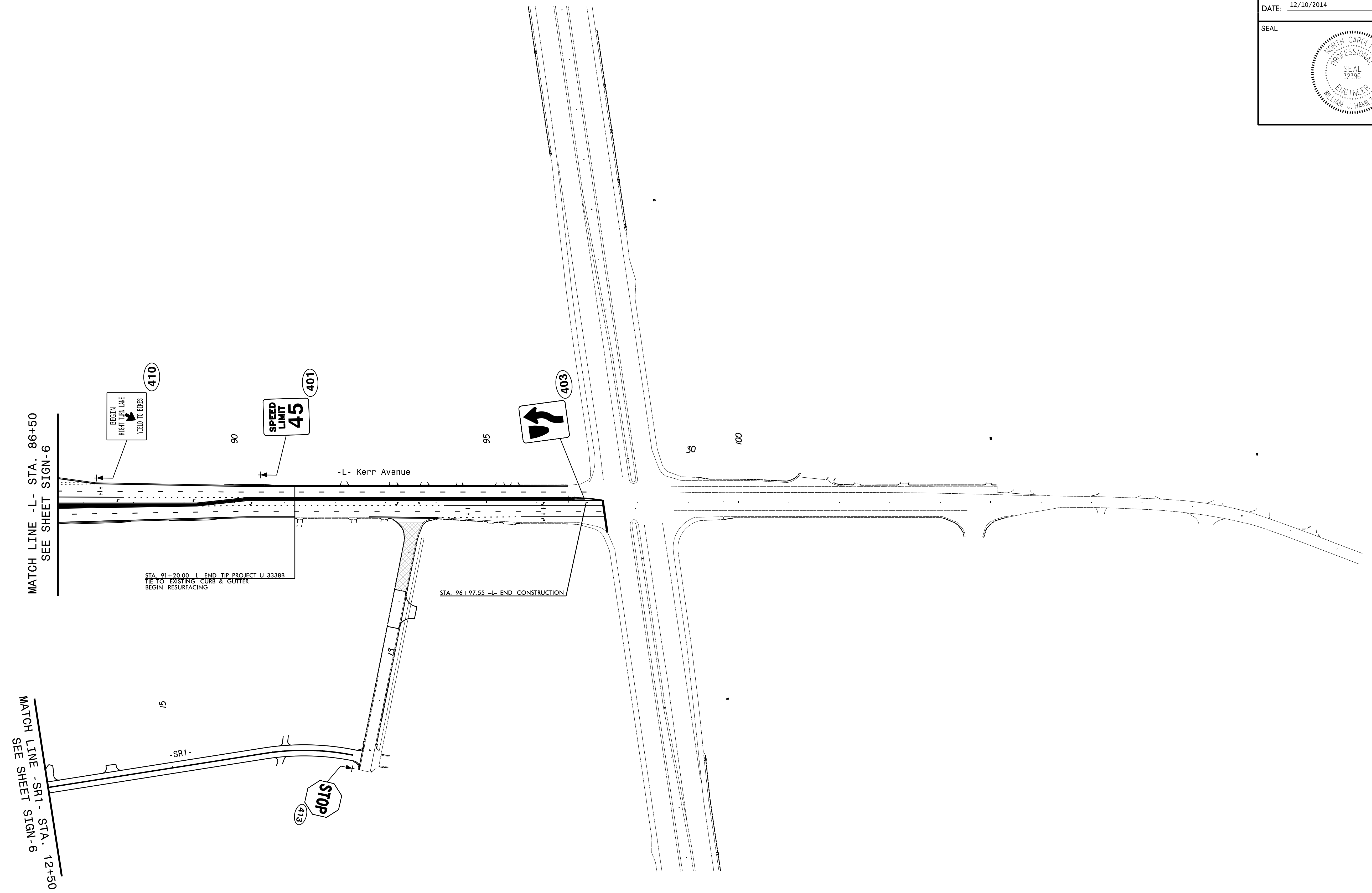
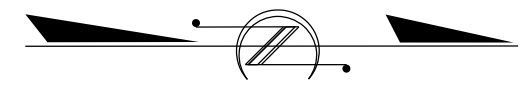
NOTE: REMOVE AND DISPOSE OF EXISTING SIGNS WITHIN PROJECT LIMITS, UNLESS OTHERWISE NOTED.

Prepared in the offices of:

RAMEY KEMP & ASSOCIATES, INC.
 TRANSPORTATION ENGINEERS
 608 Farrington Place, Suite 100
 Raleigh, North Carolina 27609
 919.872.5115 Tel. 919.878.5416 Fax.
 www.rameykemp.com

EXISTING AND PROPOSED SIGNING DETAIL

TIP NO. U-3338B	SHEET NO. SIGN-7
APPROVED: <i>Jason Hamilton, PE</i> A0560704648484	
DATE: 12/10/2014	
SEAL	
	



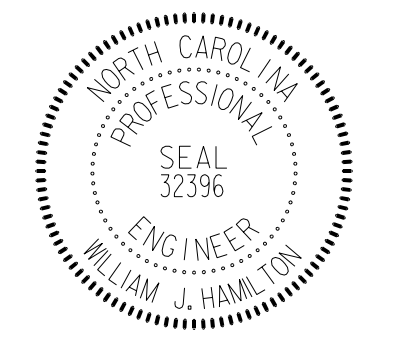
NOTE: REMOVE AND DISPOSE OF EXISTING SIGNS WITHIN PROJECT AREA, UNLESS OTHERWISE NOTED.

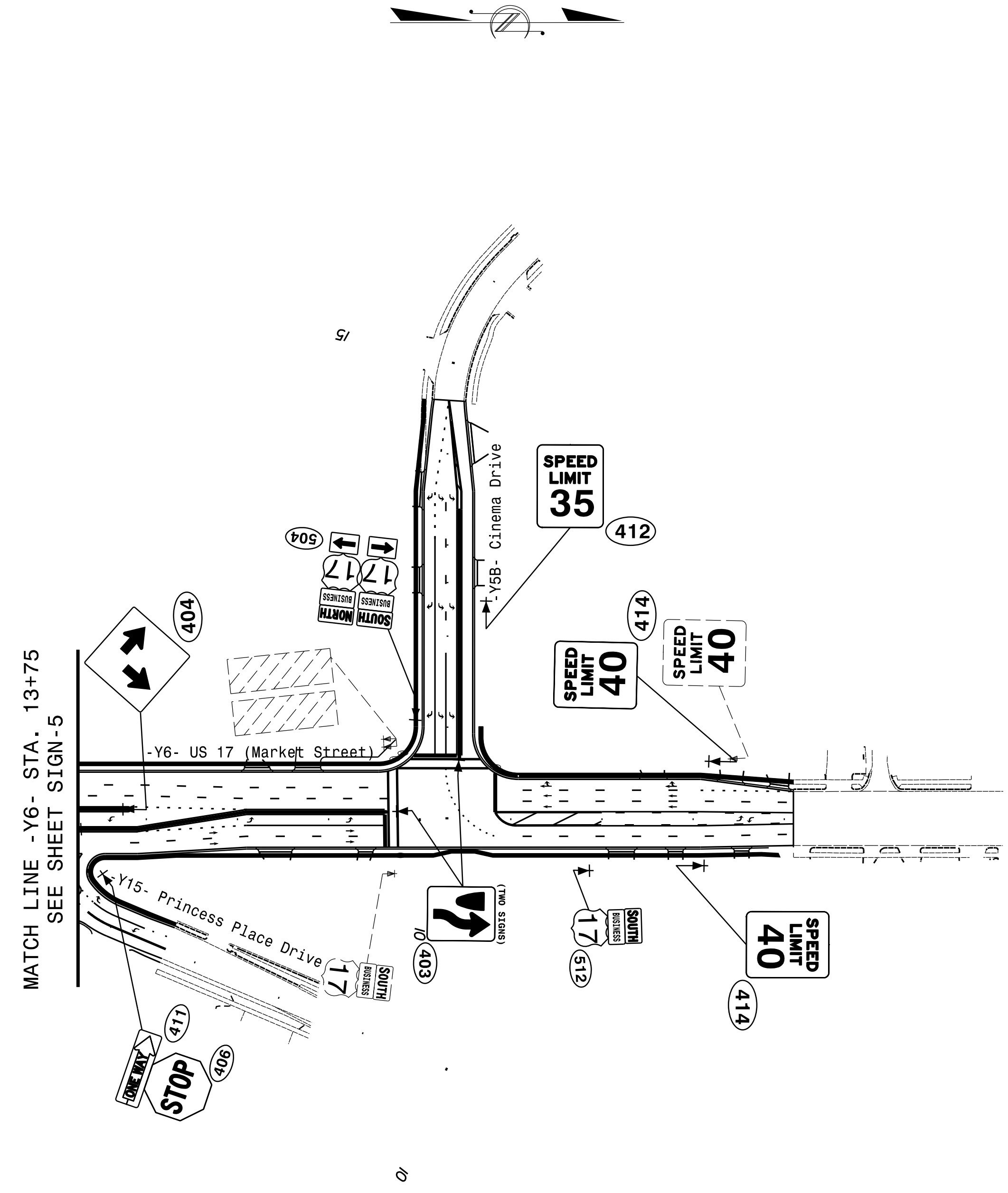
Prepared in the offices of:

RAMEY KEMP & ASSOCIATES, INC.
TRANSPORTATION ENGINEERS

508 Farrington Place, Suite 100
Raleigh, North Carolina 27609
919.872.5115 TEL 919.878.5416 FAX
www.rameykemp.com

**EXISTING AND PROPOSED
SIGNING DETAIL**


TIP NO. U-3338B	SHEET NO. SIGN-8
APPROVED: <i>Jason Hamilton, PE</i> A0560704648484	
DATE: 12/10/2014	
SEAL	
	

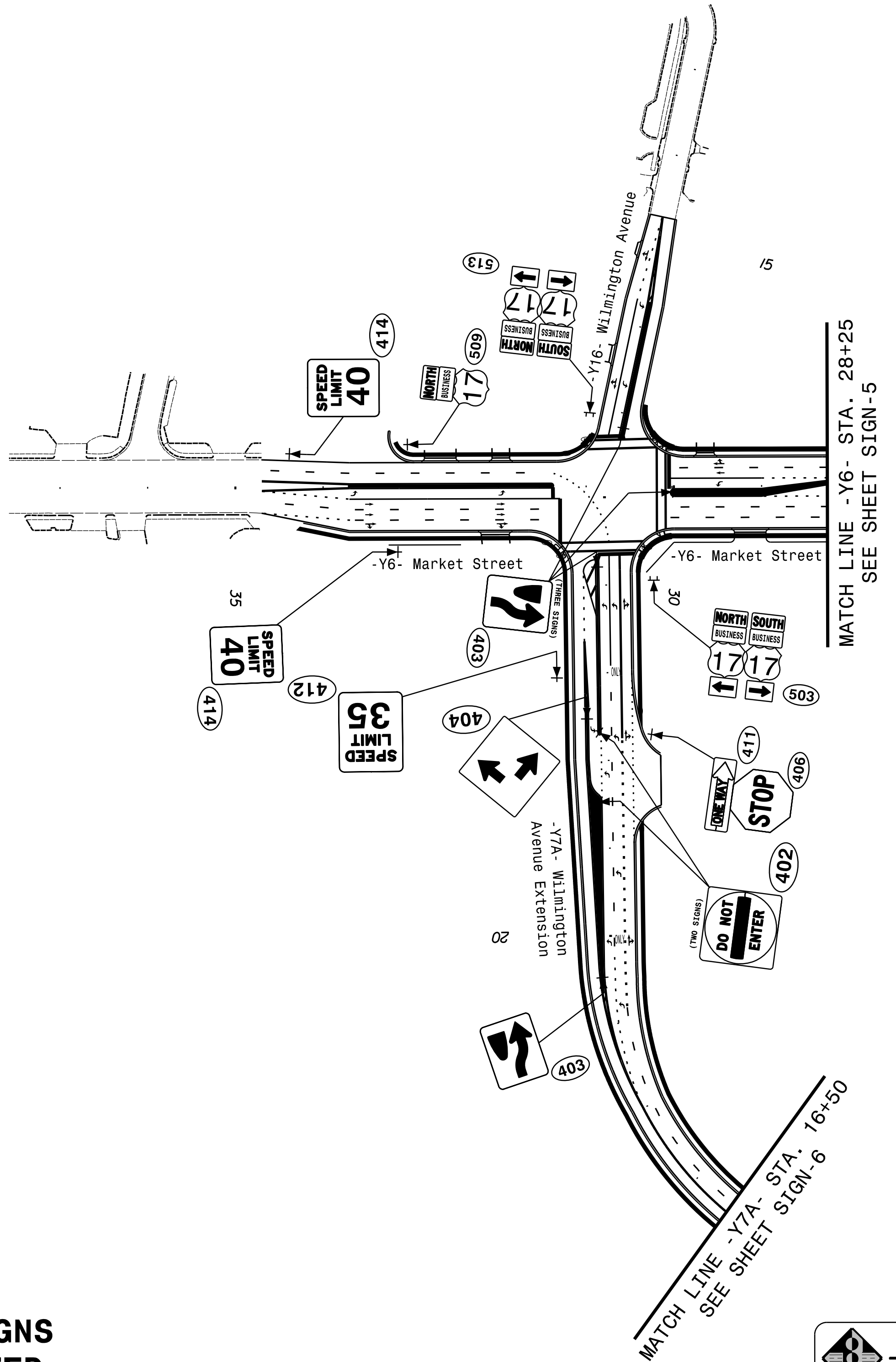
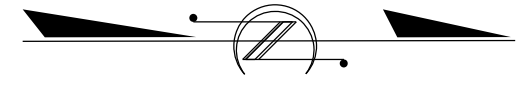


NOTE: REMOVE AND DISPOSE OF EXISTING SIGNS WITHIN PROJECT AREA, UNLESS OTHERWISE NOTED.

Prepared in the offices of:
RAMEY KEMP & ASSOCIATES, INC.
 TRANSPORTATION ENGINEERS
 508 Farrington Place, Suite 100
 Raleigh, North Carolina 27609
 919-872-2115 Tel. 919-878-6416 Fax.
 www.rameykemp.com

**EXISTING AND PROPOSED
SIGNING DETAIL**

TIP NO. U-3338B	SHEET NO. SIGN-9
APPROVED: <i>Jason Hamilton, PE</i> A0560704648484	
DATE: 12/10/2014	
SEAL	
	



NOTE: REMOVE AND DISPOSE OF EXISTING SIGNS WITHIN PROJECT AREA, UNLESS OTHERWISE NOTED.

Prepared in the offices of:



RAMEY KEMP ASSOCIATES, INC.
Transportation Engineers
508 Farrington Place, Suite 100
Raleigh, North Carolina 27609
919-872-2119 Tel. 919-872-5416 Fax.
www.rameykemp.com

EXISTING AND PROPOSED SIGNING DETAIL