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**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
CUMBERLAND COUNTY**

**LOCATION: SR 1007 (OWEN DRIVE) FROM WALTER REED ROAD  
TO US 301 /I-95 BUSINESS**

PROJECT REFERENCE NO. <b>W-5514</b>	SHEET NO. <b>SIGN-1</b>
APPROVED: _____	
DATE: _____	
SEAL	
	

**CONTRACT: 44102.1.FS1 T.I.P.: W-5514**

**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
901.50	ARROWS AND SHIELDS
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

**PROJECT NOTES**

1. DISPOSAL OF SIGN SYSTEM, U CHANNEL
2. SIGN ERECTION, RELOCATED, TYPE "E" SIGN
3. DISPOSAL OF SUPPORT, U CHANNEL

**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.
- . SIGNING PLANS DO NOT INCLUDE TEMPORARY CONSTRUCTION SIGNING OR PAVEMENT MARKINGS. SEE TRAFFIC CONTROL PLANS.
- . 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.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.
- . INCLUDE AN 8-INCH BLOCK-OUT FOR ALL PROPOSED SIGNS THAT WILL BE LOCATED WITHIN A CONCRETE ISLAND. THE BLOCK-OUT SHOULD EXTEND TO A DEPTH OF 30 INCHES OR UNTIL IT REACHES EXISTING SOIL.

**SUMMARY OF QUANTITIES**

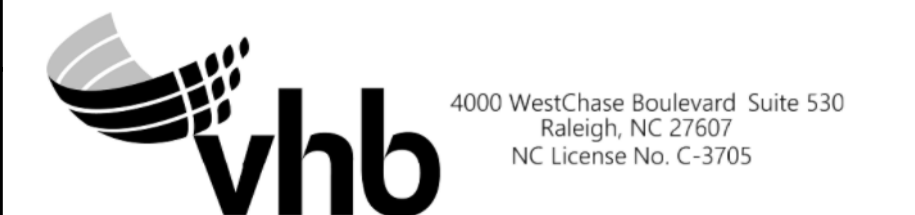
ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	1404	L.F.
4096000000	904	SIGN ERECTION, TYPE D	1	EA.
4102000000	904	SIGN ERECTION, TYPE E	112	EA.
4108000000	904	SIGN ERECTION, TYPE F	4	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE E	3	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	74	EA.
4192000000	907	DISPOSAL OF SUPPORT, U-CHANNEL	3	EA.

**INDEX**

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2A	SIGN DESIGNS
SIGN-2B-2C	E AND F SHEETS
SIGN-3-14	SIGNING DETAIL

*PLAN PREPARED BY: VHB Engineering NC, P.C.*

*Jonathan P. Soika, PE* PROJECT ENGINEER



APPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_

SEAL



SIGN NUMBER: 301 TYPE: D QUANTITY: 1 SIGN WIDTH: 7'-6" HEIGHT: 2'-0" TOTAL AREA: 15.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.75" RADII: 3" NO. Z BARS: LENGTH:	BACKG COLOR: Green COPY COLOR: White SYMBOL X Y WID HT MAT'L: 0.125" (3.2 mm) ALUMINUM	DESIGN BY: J. SOIKA PROJECT ID: W-5514	CHECKED BY: DIV: 6	DATE: Apr 29, 2015
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**BORDER**  
R=3"  
TH=0.75"


Spacing Factor is 1 unless specified otherwise

**LETTER POSITIONS**

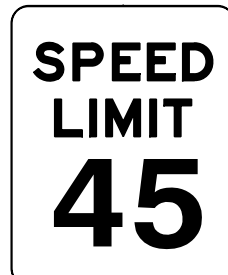
Letter locations are panel edge to lower left corner

Letter locations are panel edge to lower left corner														Series/Size				
														Text Length				
J	P	R	i	d	d	l	e	S	t	a	d	i	u	m	D 2000			
6.6	10.5	16.5	20.6	26.6	31.5	33.5	38	42.8	44.7	48.3	54.3	58.7	61.5	65.8	70.6	72.7	77.4	76.7
N	E	X	T	L	E	F	T											D 2000
24.4	29.9	34.2	38.8	42.5	48.5	53.1	57.8	61.9										41.3

FILENAME: W5514\_sign\_guidesign NORTH CAROLINA D.O.T. SIGN DETAIL

APPROVED: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 SEAL  


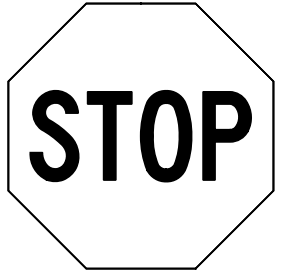
**401** QUANTITY REQ'D 14



30 X 36  
R2-1

ONE "U" POST PER SIGN

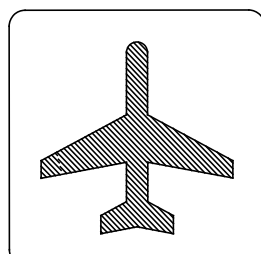
**406** QUANTITY REQ'D 16



36 X 36  
R1-1

MOUNT BELOW SIGN 407  
IN 16 INSTALLATIONS

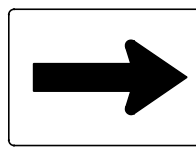
**411** QUANTITY REQ'D 3



24 X 24  
I-5

ONE "U" POST PER SIGN

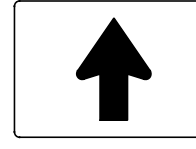
**417** QUANTITY REQ'D 1



21 X 15  
M6-1  
WHITE/GREEN

MOUNT BELOW SIGN 411  
IN 1 INSTALLATION


**419** QUANTITY REQ'D 1



21 X 15  
M6-3  
WHITE/BLUE

MOUNT BELOW SIGN 418  
IN 1 INSTALLATION


**402** QUANTITY REQ'D 1



24 X 18  
R14-1

ONE "U" POST PER SIGN

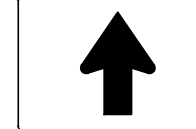
**407** QUANTITY REQ'D 17



54 X 18  
R6-1 (R)

TWO "U" POSTS PER SIGN

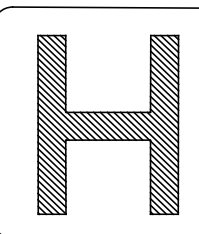
**412** QUANTITY REQ'D 2



21 X 15  
M6-3  
WHITE/GREEN

MOUNT BELOW SIGN 411  
IN 2 INSTALLATIONS

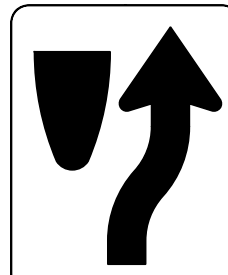
**418** QUANTITY REQ'D 1



24 X 24  
D9-2

ONE "U" POST PER SIGN


**403** QUANTITY REQ'D 15



24 X 30  
R4-7

ONE "U" POST PER SIGN

**408** QUANTITY REQ'D 5




24 X 24  
BLACK/WHITE

SIGN DESIGN DETAIL THIS SHEET

ONE "U" POST PER SIGN

**413** QUANTITY REQ'D 7



54 X 18  
R6-1 (L)

TWO "U" POSTS PER SIGN  
IN 1 INSTALLATION

MOUNT BACK-TO-BACK WITH  
SIGN 407 IN 6 INSTALLATIONS

SIGN NUMBER: 408	BACKG COLOR: White	DESIGN BY: J. SOIKA	CHECKED BY:	DATE: Feb 12, 2015
TYPE: E	COPY COLOR: Black	PROJECT ID: W-5514	DIV: 6	
QUANTITY: 5				

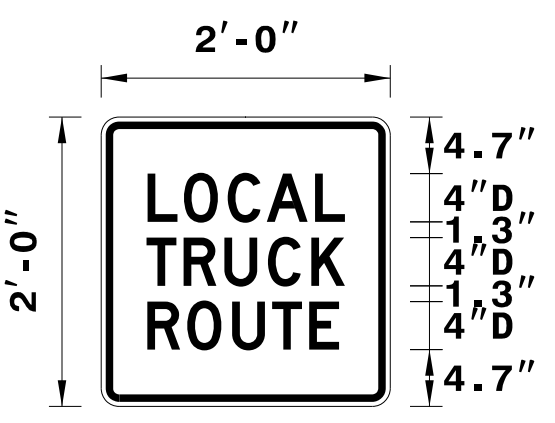
SYMBOL	X	Y	WID	HT

SIGN WIDTH: 2'-0"  
 HEIGHT: 2'-0"  
 TOTAL AREA: 4.0 Sq.Ft.

BORDER TYPE: FLUSH  
 RECESS: 0.38"  
 WIDTH: 0.63"  
 RADII: 1.5"

NO. Z BARS:  
 LENGTH:

MAT'L: 0.063" (1.6 mm) ALUMINUM

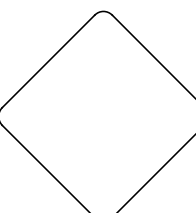


USE NOTES: 1,2

- Legend and border (except those that are colored black) shall be direct applied Grade C sheeting.
- Background shall be Grade C reflective sheeting.

Spacing Factor is 1 unless specified otherwise

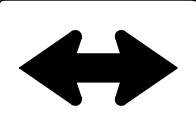
**404** QUANTITY REQ'D 15



18 X 18  
OM1-3

MOUNT BELOW SIGN 403  
IN 15 INSTALLATIONS

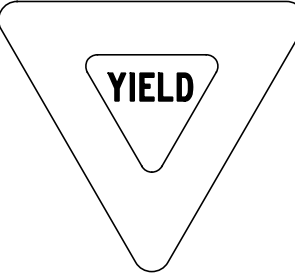
**409** QUANTITY REQ'D 5



21 X 15  
M6-3  
BLACK/WHITE

MOUNT BELOW SIGN 408  
IN 5 INSTALLATIONS

**415** QUANTITY REQ'D 3



36 X 36 X 36  
R1-2

ONE "U" POST PER SIGN

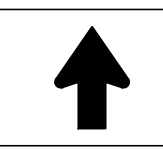
LETTER POSITIONS

Letter locations are panel edge to lower left corner

Letter	L	O	C	A	L	Series/Size	Text Length
L	3.9	6.9	10.5	13.7	17.7	D 2000	16.4
T	3.8	6.8	10.2	13.8	17.4	D 2000	16.5
R	3.8	7.2	10.9	14.2	17.3	D 2000	15.9

FILENAME: W5514\_sign\_guidesign  
 NORTH CAROLINA D.O.T. SIGN DETAIL

**405** QUANTITY REQ'D 1



21 X 15  
M6-3  
BLACK/WHITE

MOUNT BELOW SIGN 402  
IN 1 INSTALLATION

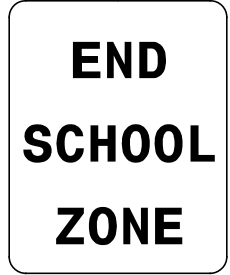
**410** QUANTITY REQ'D 4



36 X 36  
R3-7

ONE "U" POST PER SIGN

**416** QUANTITY REQ'D 1



24 X 30  
S5-2

MOUNT BELOW SIGN 401  
IN 1 INSTALLATION

**TYPE "E" SIGNS**

APPROVED: \_\_\_\_\_  
 DATE: \_\_\_\_\_



**501**

**TO** 24" X 12"  
WHITE/BLUE

**INTERSTATE 95** 24" X 24"

**↑** 21" X 15"  
WHITE/BLUE

ONE "U" POST PER SIGN

**502**

**JCT** 21" X 15"  
WHITE/GREEN

**BUSINESS LOOP 95** 24" X 24"

**301** 30" X 24"

ONE "U" POST PER SIGN

**503**

**NORTH SOUTH** 2 - 24" X 12"  
WHITE/GREEN

**BUSINESS LOOP 95 BUSINESS LOOP 95** 2 - 24" X 24"

**← →** 2 - 21" X 15"  
WHITE/GREEN

**NORTH SOUTH** 2 - 24" X 12"  
BLACK/WHITE

**301 301** 2 - 30" X 24"

**← →** 2 - 21" X 15"  
BLACK/WHITE

TWO "U" POSTS PER SIGN

**504**

**NORTH SOUTH** 2 - 24" X 12"  
WHITE/GREEN

**BUSINESS LOOP 95 BUSINESS LOOP 95** 2 - 24" X 24"

**← →** 2 - 21" X 15"  
WHITE/GREEN

**NORTH SOUTH** 2 - 24" X 12"  
BLACK/WHITE

**301 301** 2 - 30" X 24"

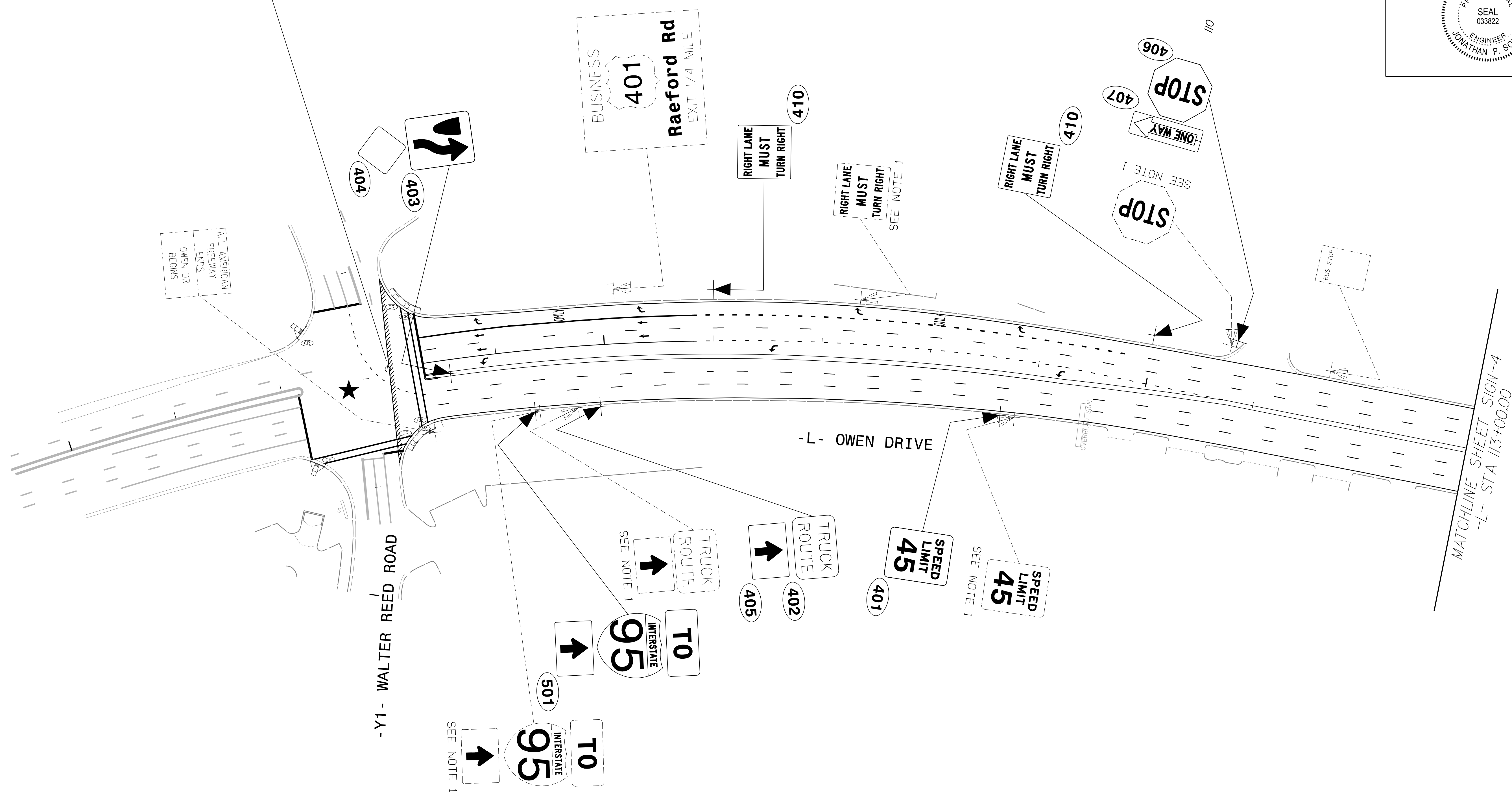
**← →** 2 - 21" X 15"  
BLACK/WHITE

TWO "U" POSTS PER SIGN

**TYPE "F" SIGNS**




BEGIN SIGNING CONSTRUCTION PROJECT W-5514  
-L- STA. 103+00

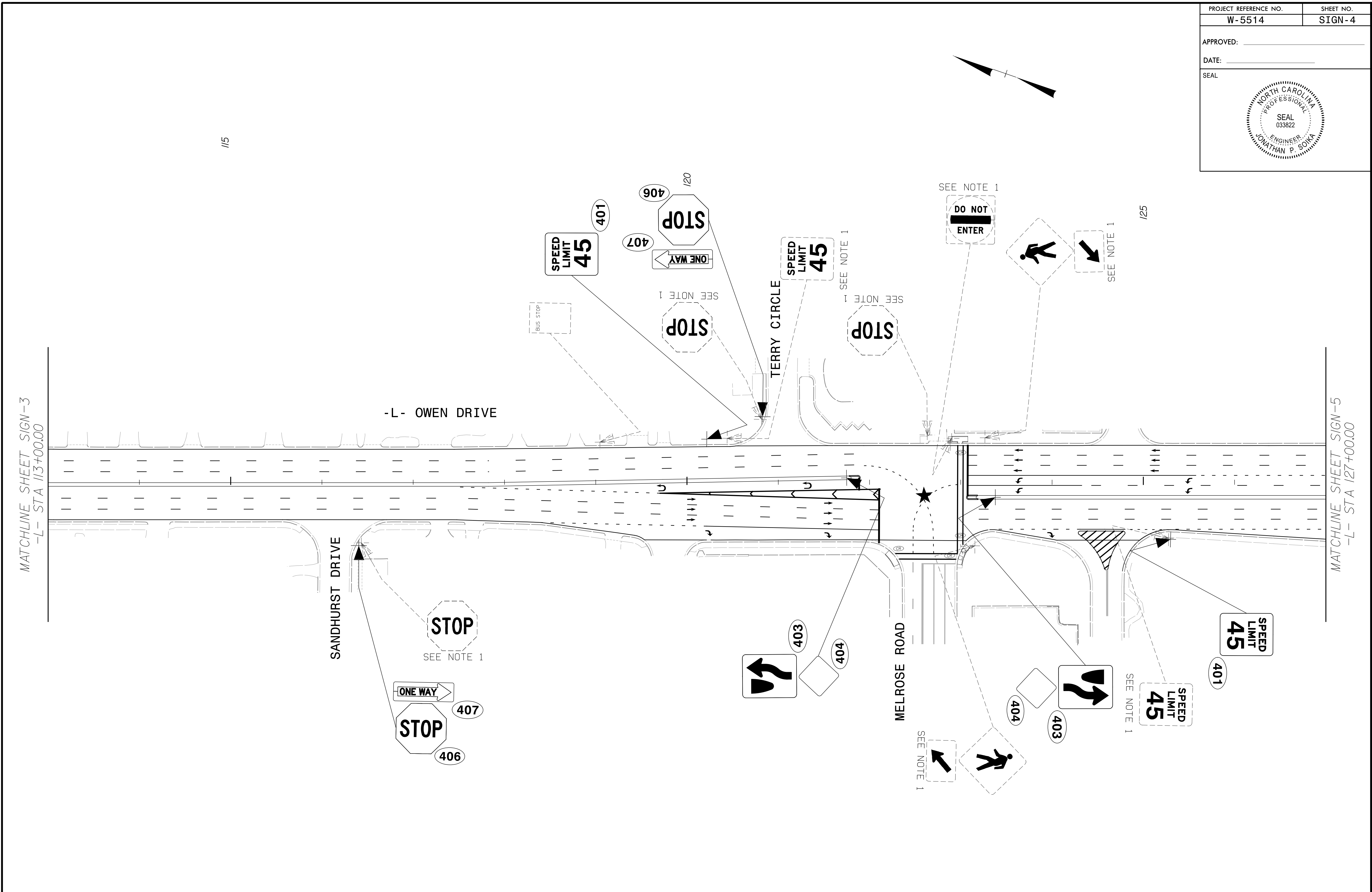


**SIGNING DETAIL**

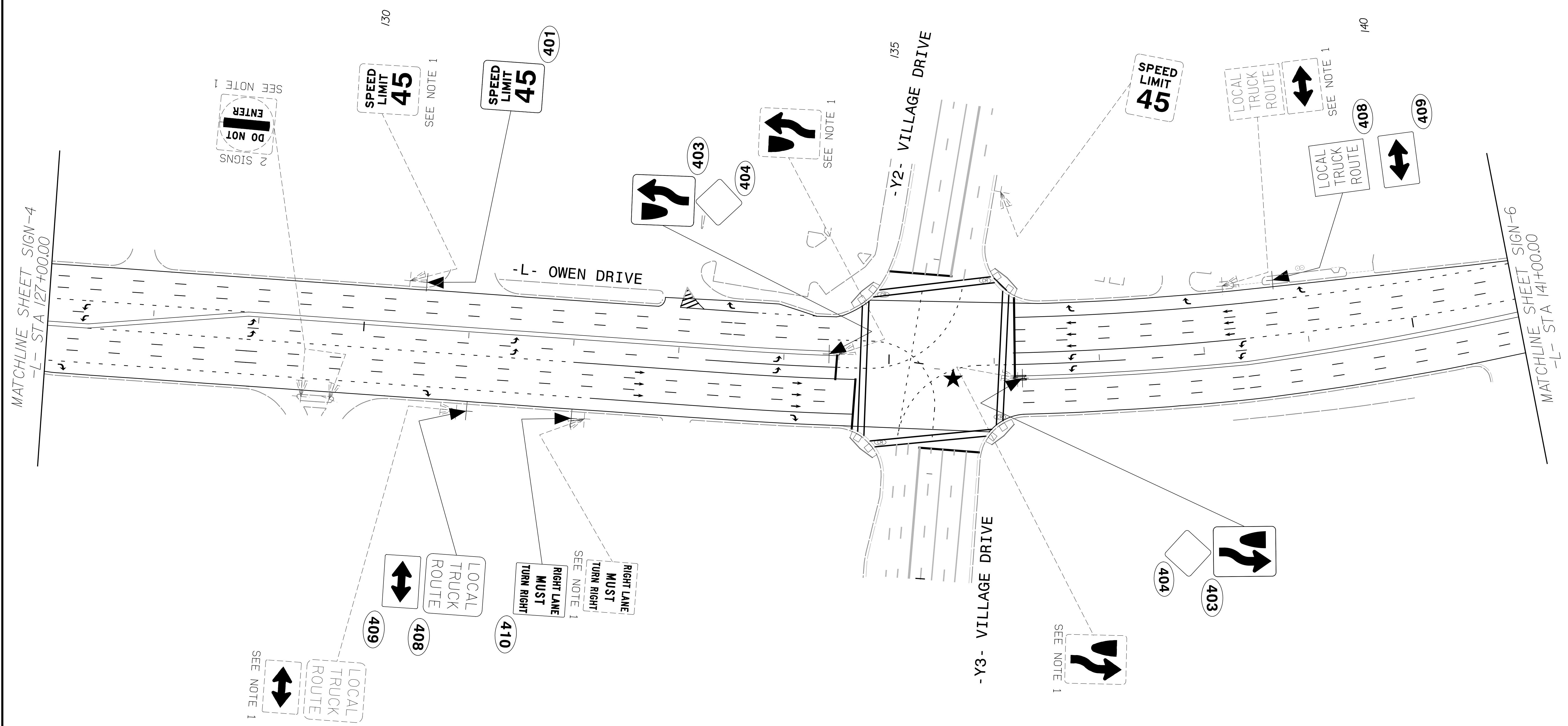
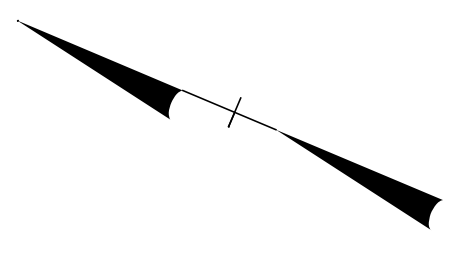
PROJECT REFERENCE NO. W-5514	SHEET NO. SIGN-4
APPROVED: _____	
DATE: _____	
SEAL	



NORTH CAROLINA  
PROFESSIONAL  
ENGINEER  
JONATHAN P. SOIKA  
SEAL  
033822

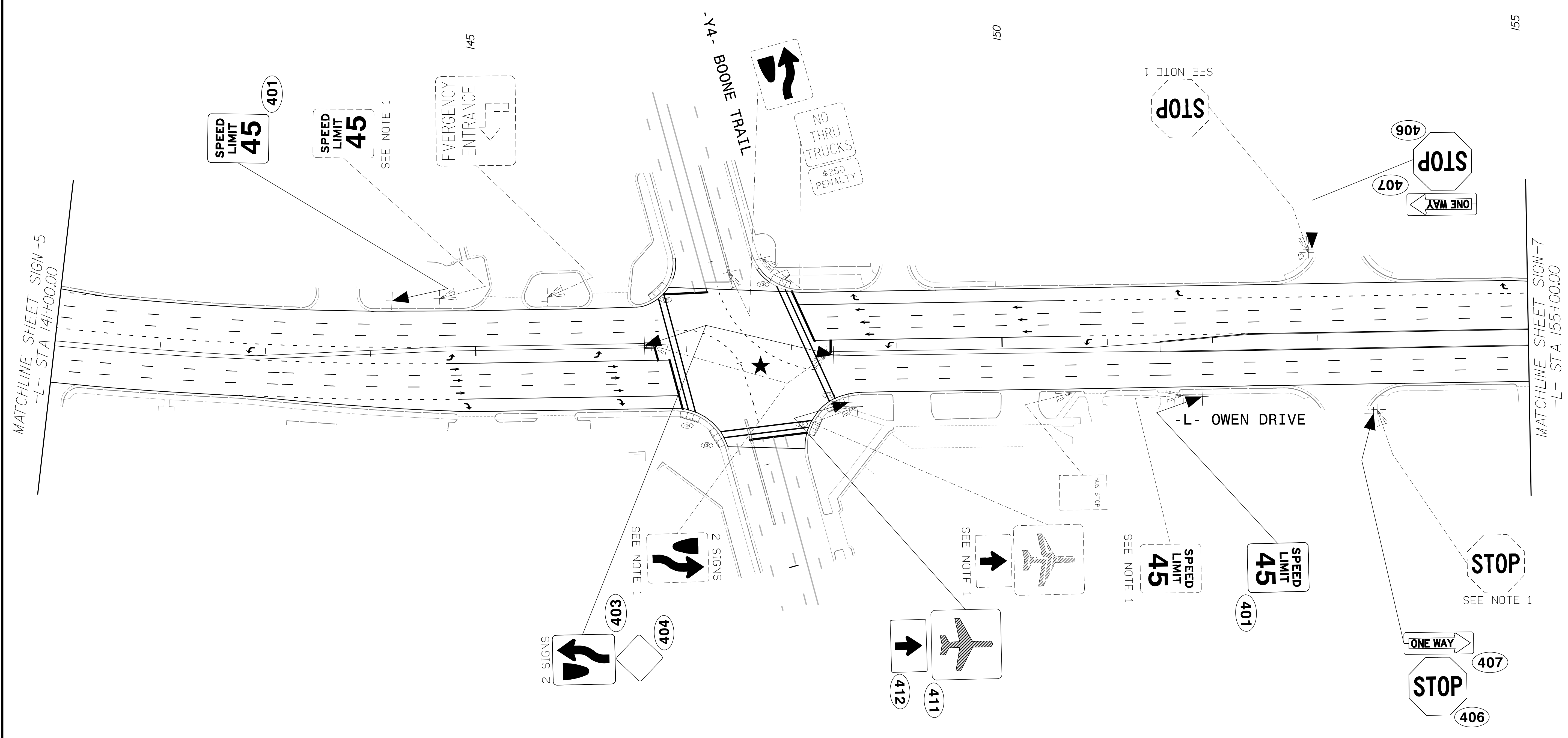
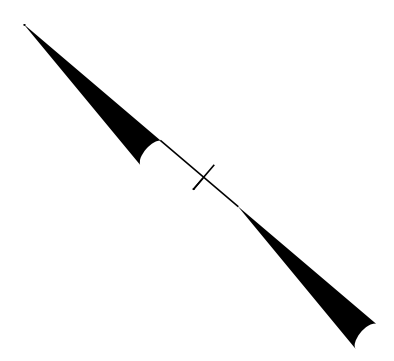


**SIGNING DETAIL**




**SIGNING DETAIL**



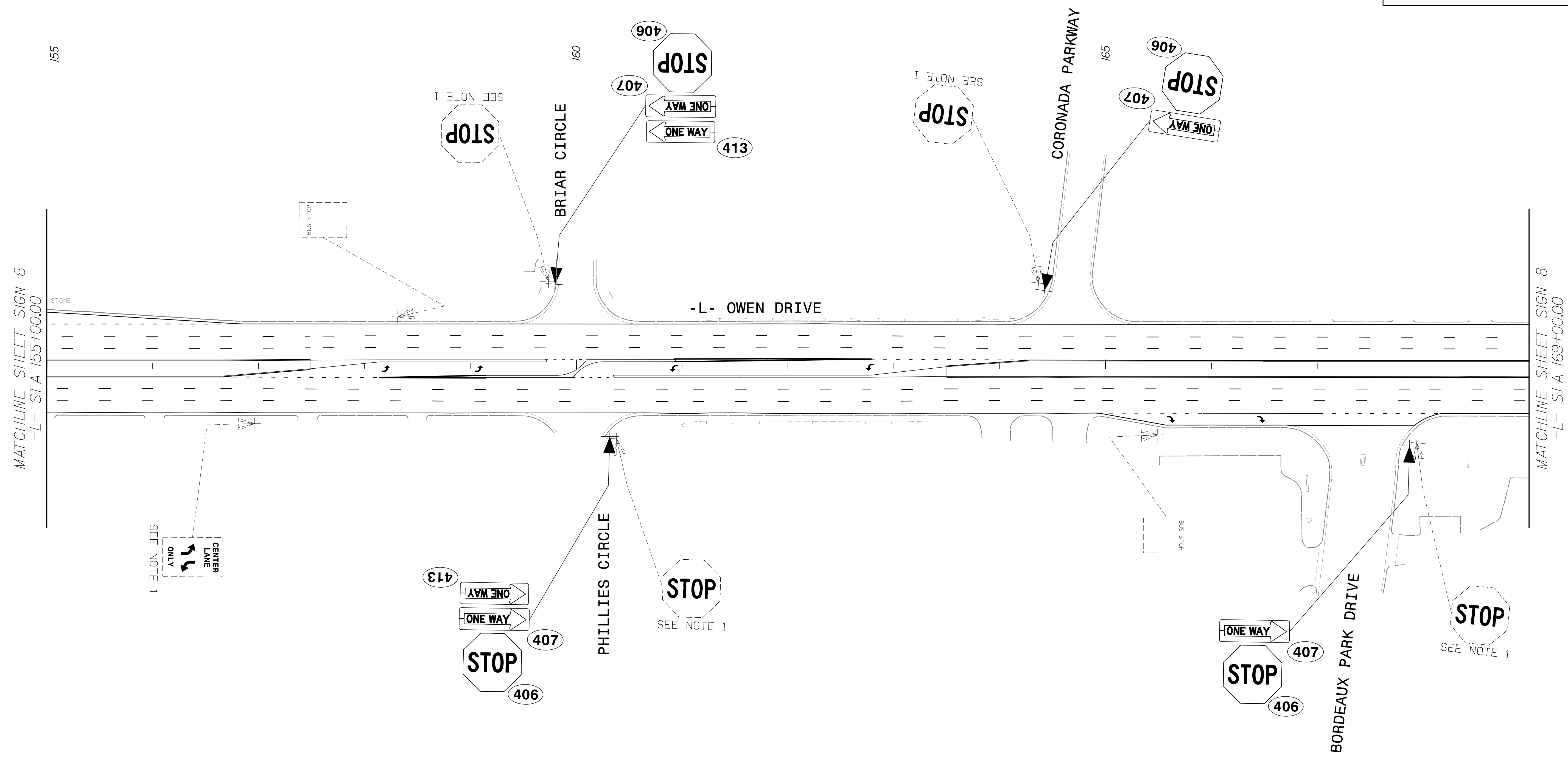
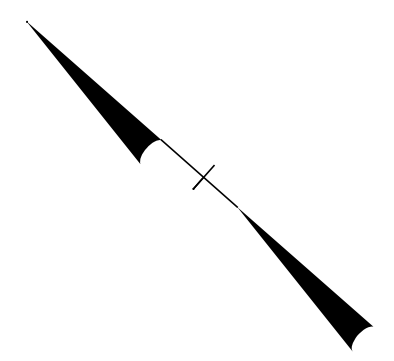


**SIGNING DETAIL**

PROJECT REFERENCE NO. W-5514	SHEET NO. SIGN-7
APPROVED: _____	
DATE: _____	
SEAL	

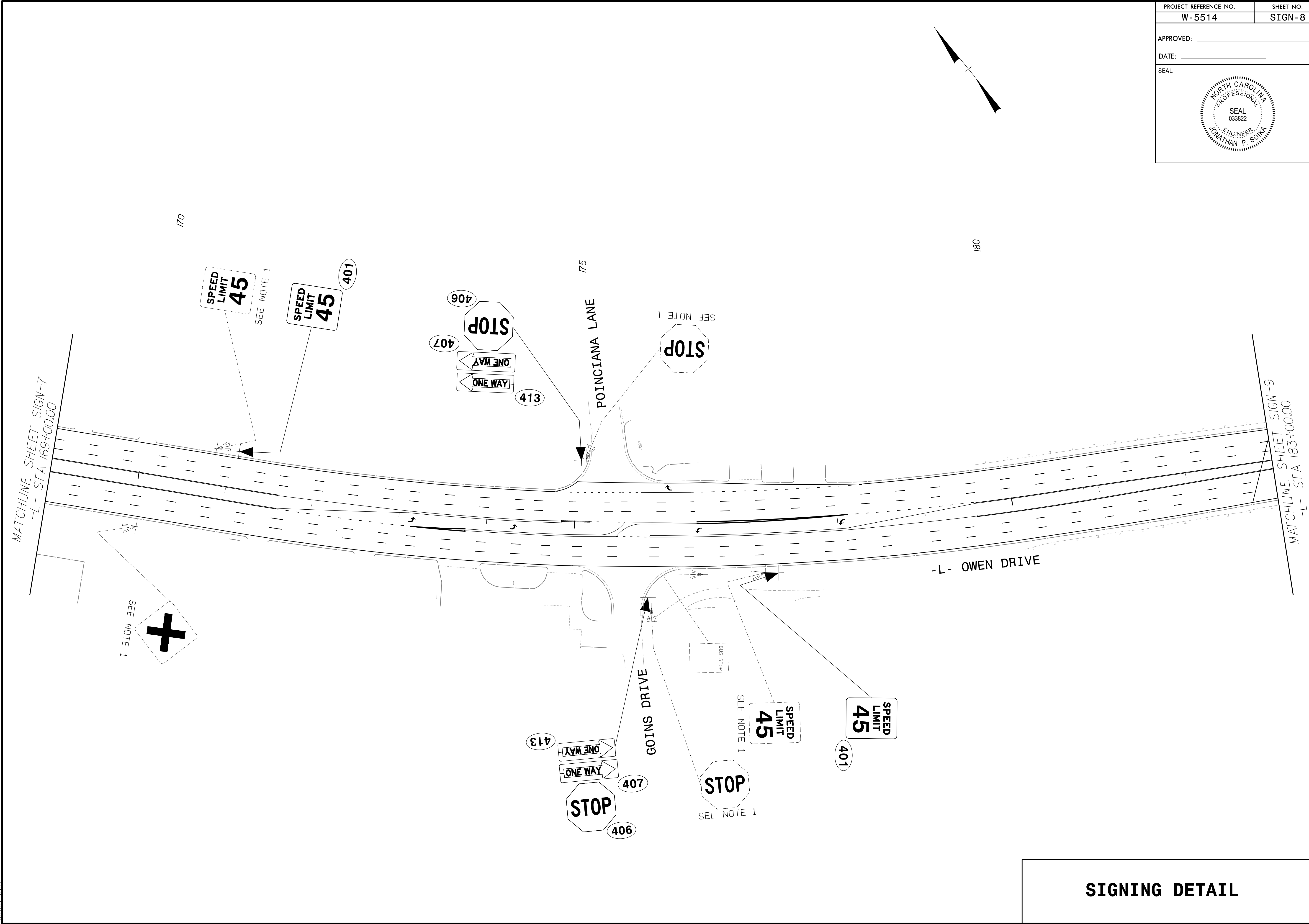
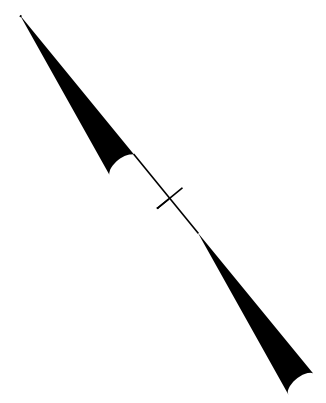


NORTH CAROLINA  
PROFESSIONAL  
ENGINEER  
JONATHAN P. SOMA  
SEAL  
033822



6/11/2015  
W5514\_sign07.dgn  
jacobd

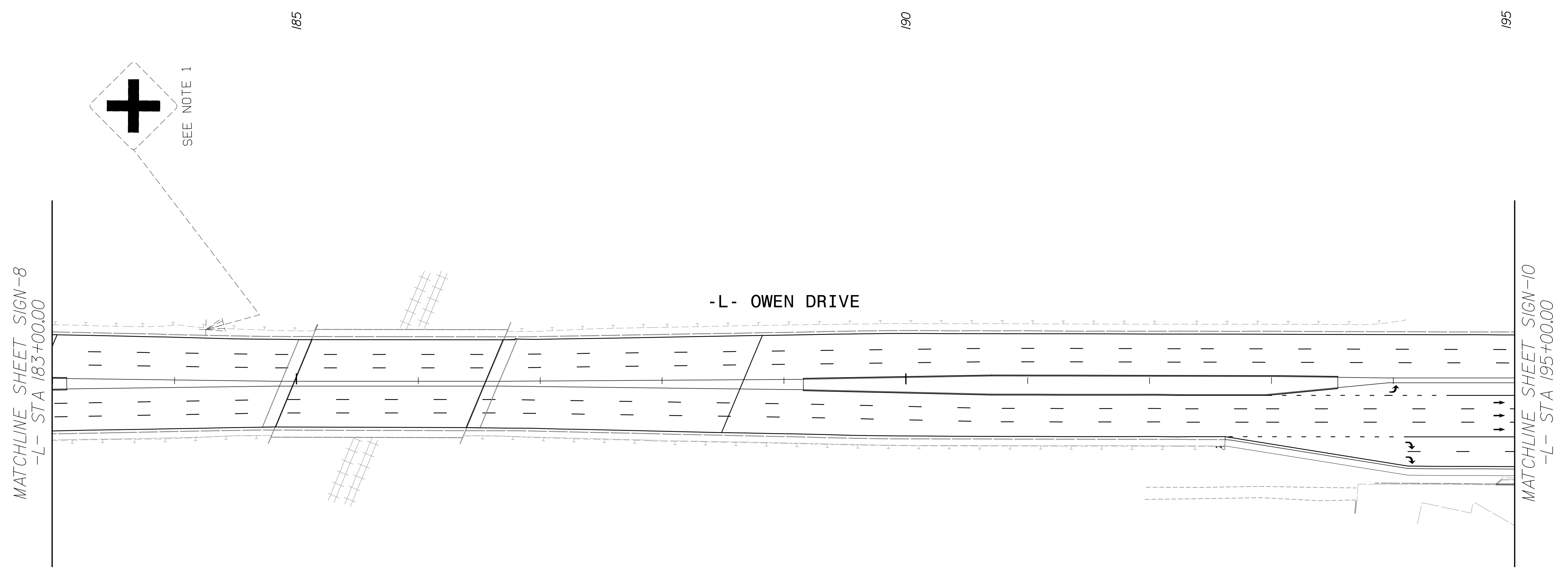
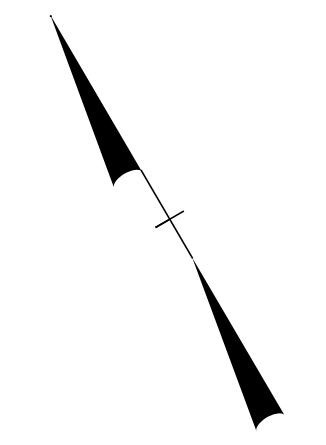
## SIGNING DETAIL



**SIGNING DETAIL**

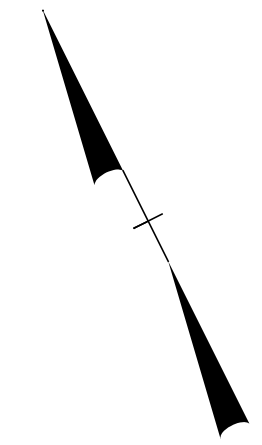
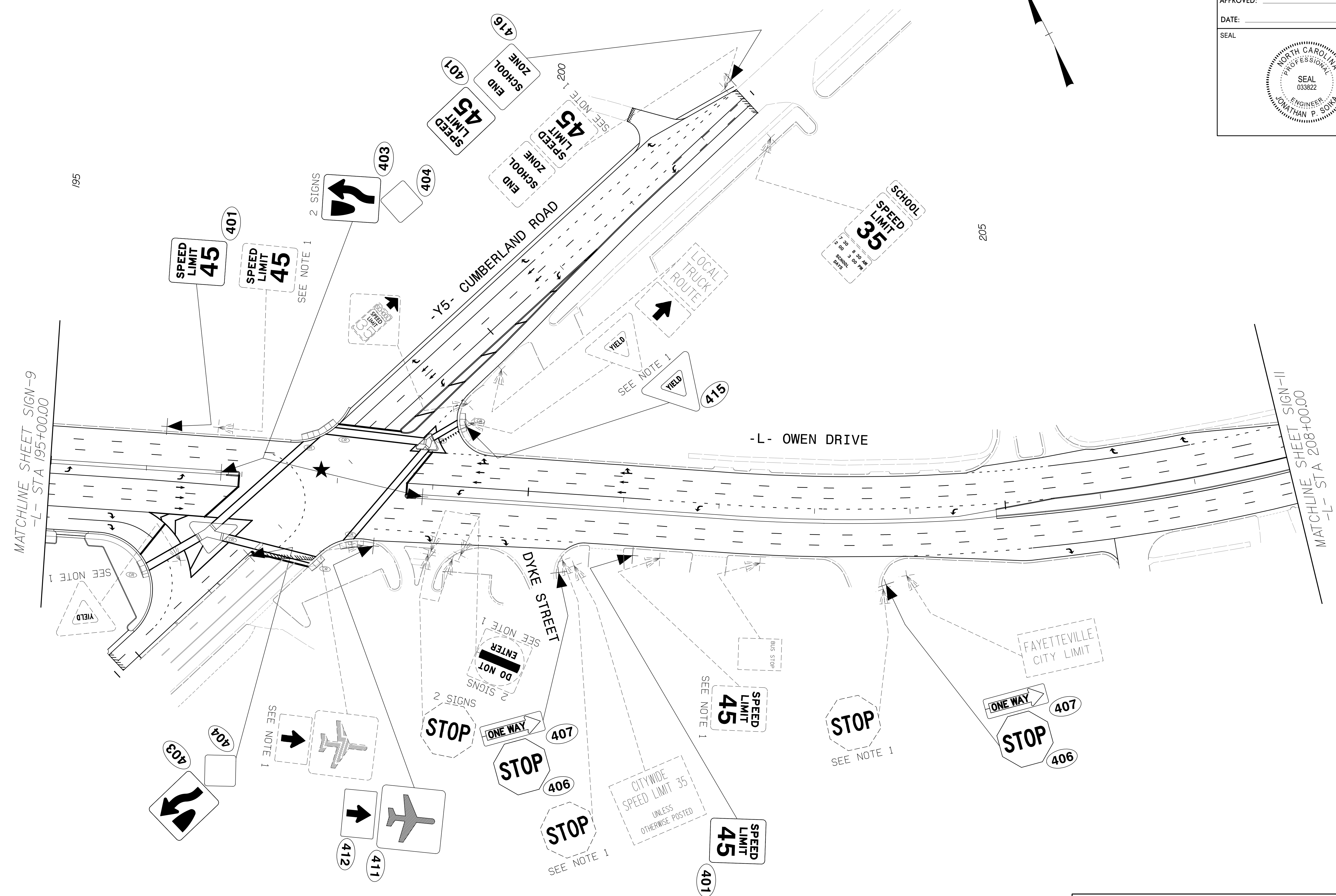
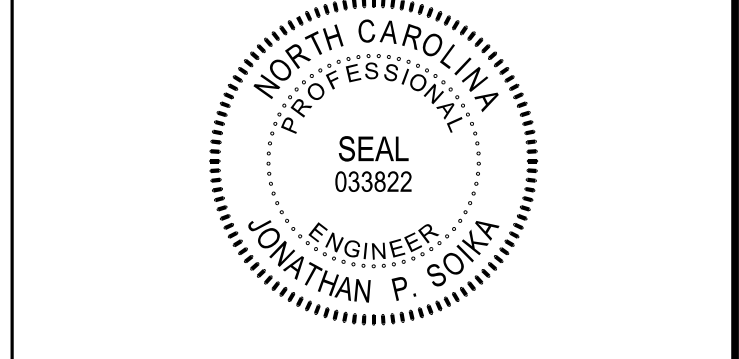
APPROVED: \_\_\_\_\_  
 DATE: \_\_\_\_\_

SEAL


**SIGNING DETAIL**

APPROVED: \_\_\_\_\_  
 DATE: \_\_\_\_\_

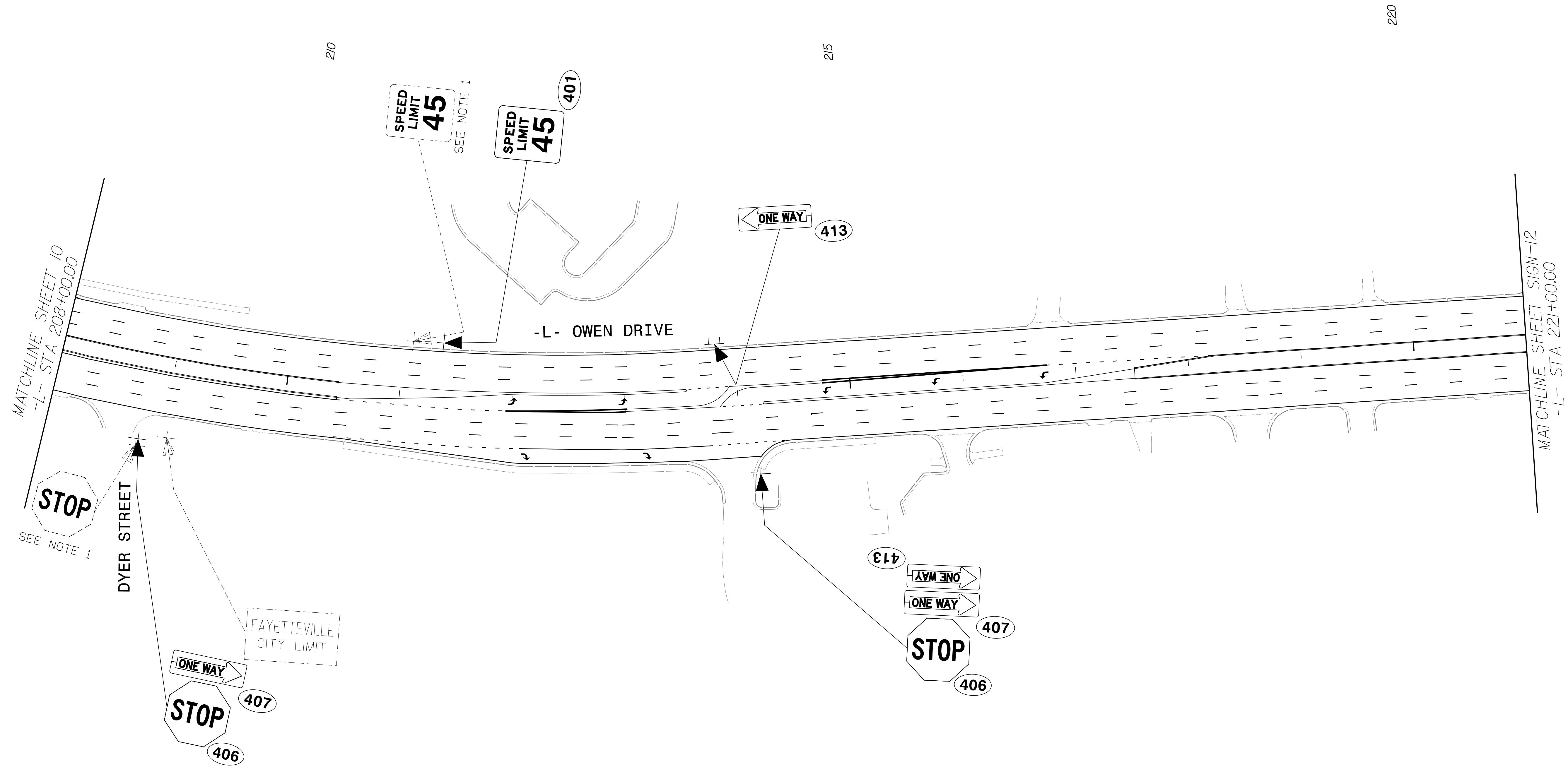
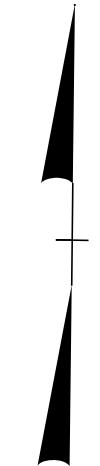


**SIGNING DETAIL**

PROJECT REFERENCE NO. W-5514	SHEET NO. SIGN - 11
APPROVED: _____	
DATE: _____	
SEAL	

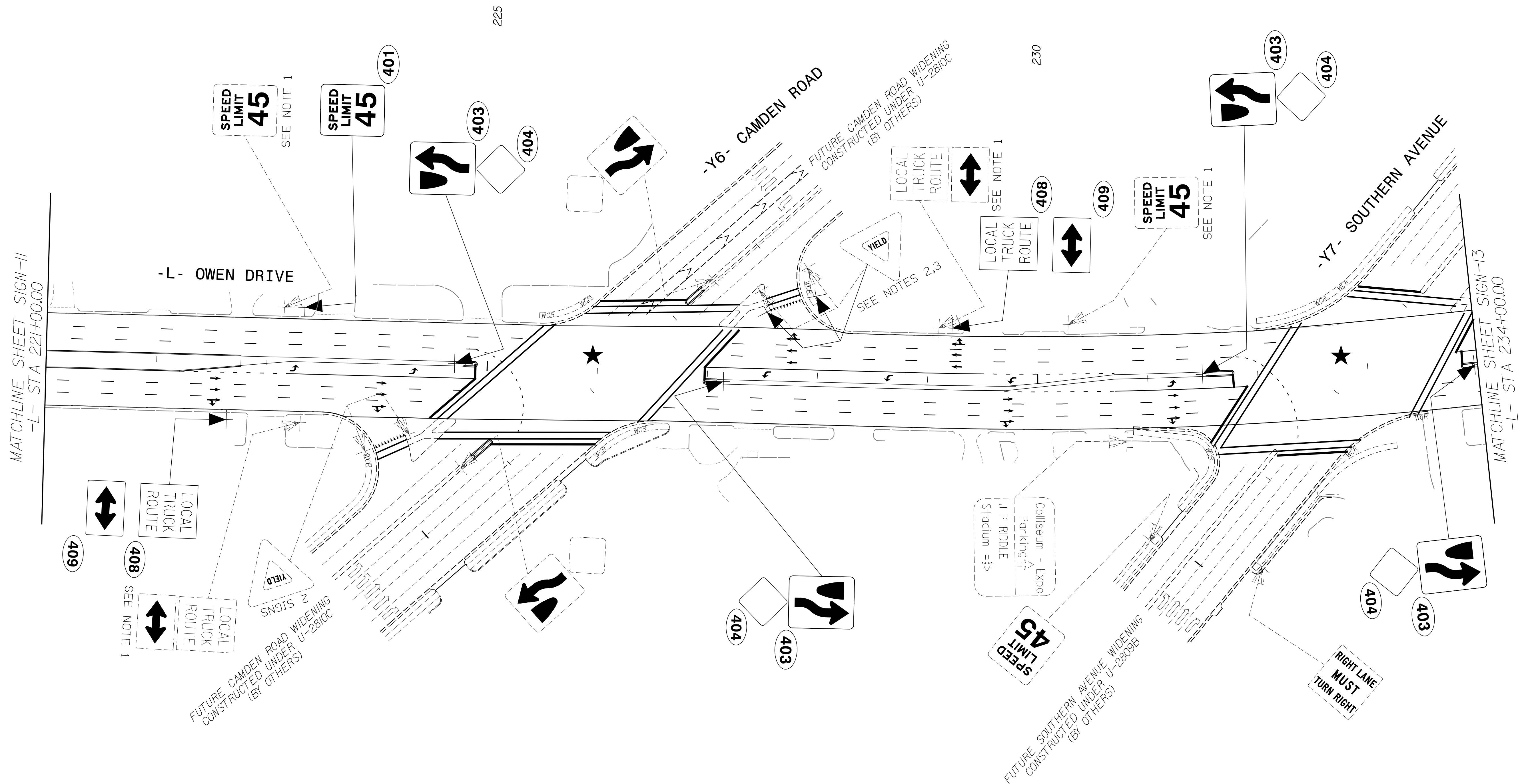
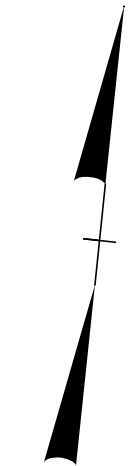
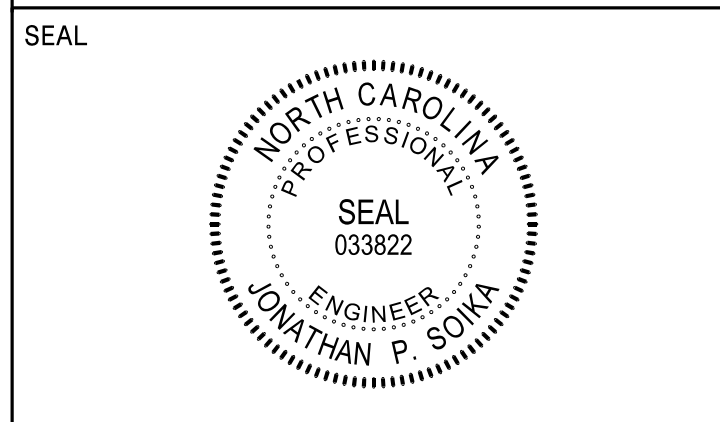


NORTH CAROLINA  
PROFESSIONAL  
ENGINEER  
JONATHAN P. SOIKA  
SEAL  
033822



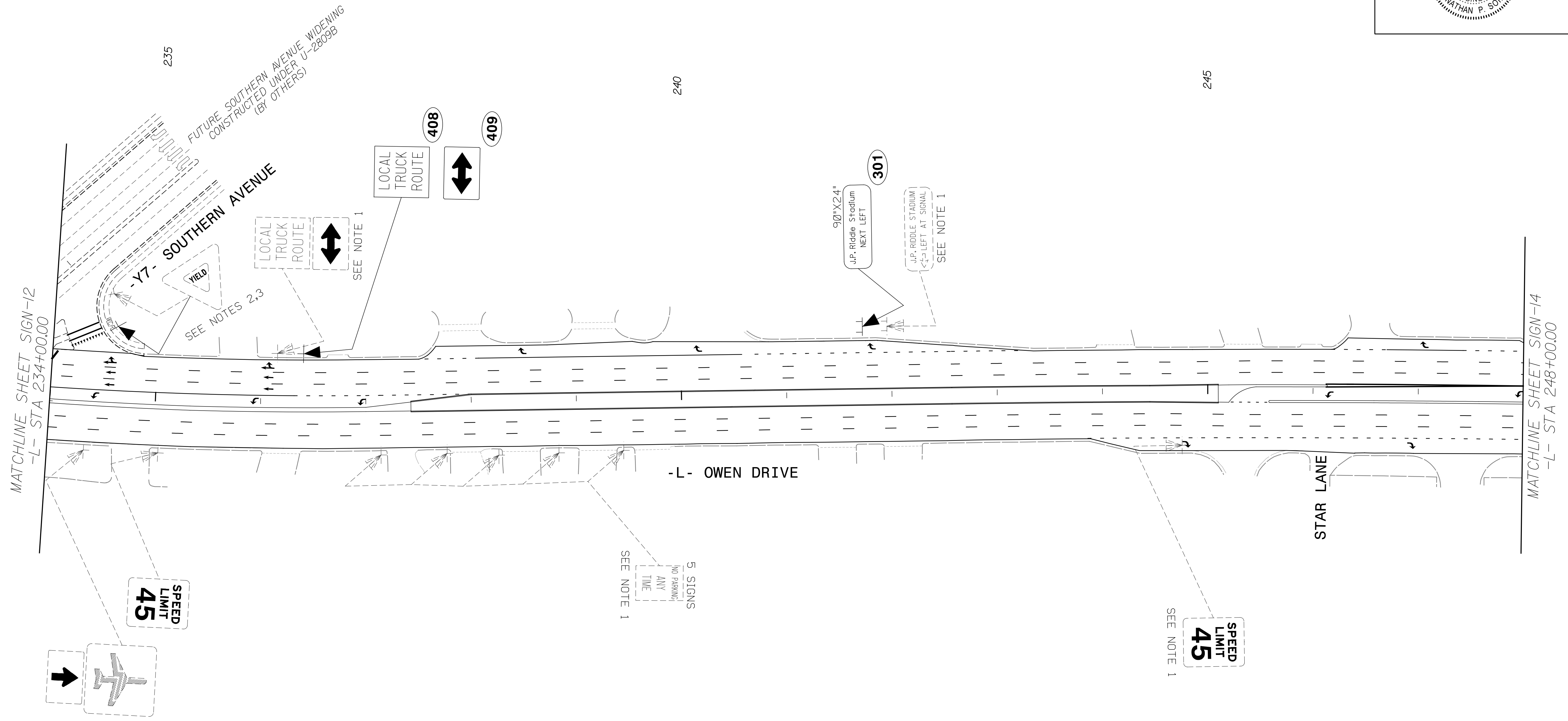
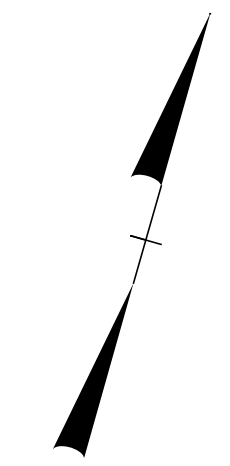
**SIGNING DETAIL**

APPROVED: \_\_\_\_\_  
 DATE: \_\_\_\_\_



**SIGNING DETAIL**

PROJECT REFERENCE NO. <b>W-5514</b>	SHEET NO. <b>SIGN-13</b>
APPROVED: _____	
DATE: _____	
SEAL	
	



MATCHLINE SHEET SIGN-12  
-L- STA 234+00.00

MATCHLINE SHEET SIGN-14  
-L- STA 248+00.00

**45**  
SPEED  
LIMIT

**45**  
SPEED  
LIMIT

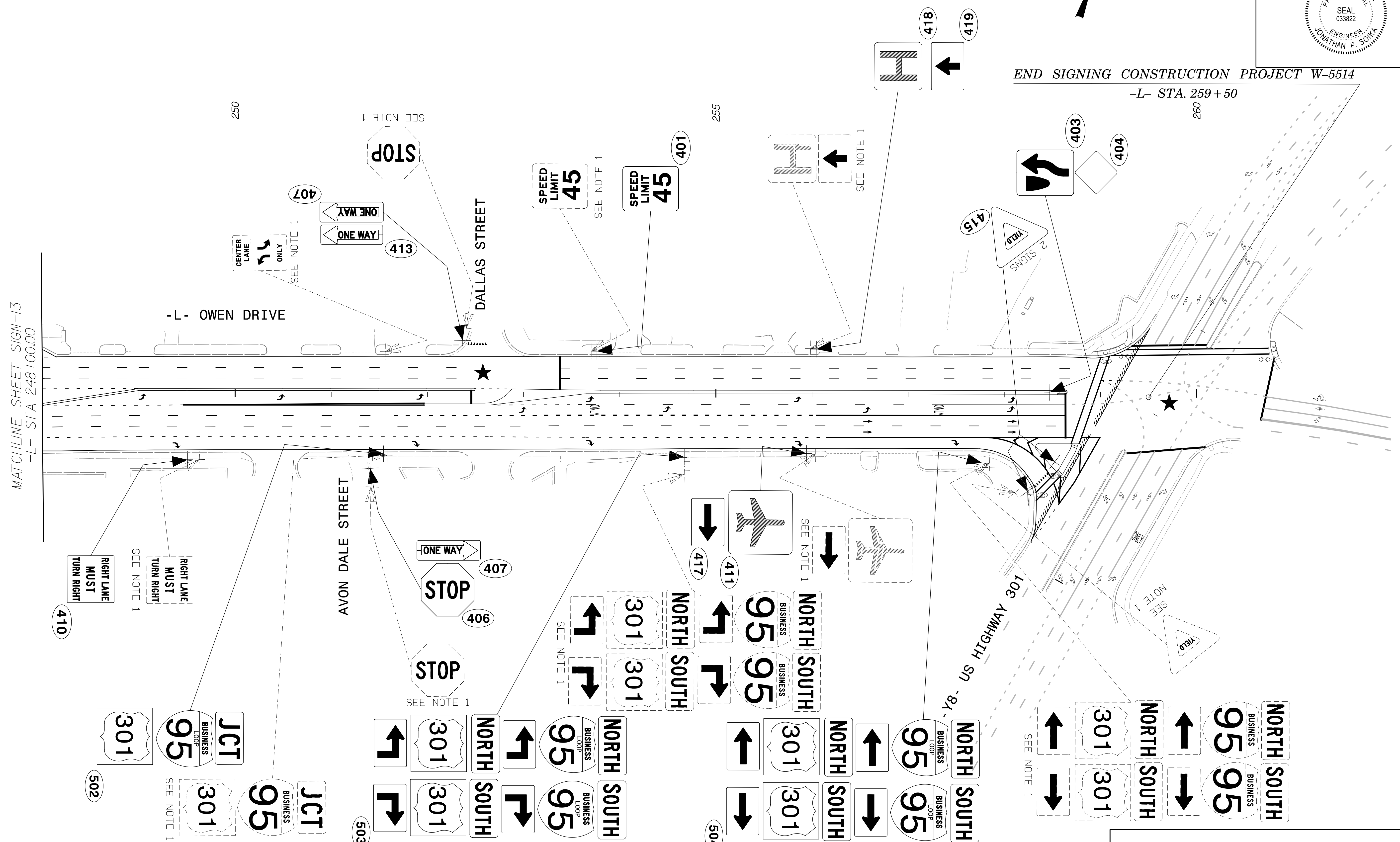
5 SIGNS  
NO PARKING  
ANY  
TIME  
SEE NOTE 1

**SIGNING DETAIL**





END SIGNING CONSTRUCTION PROJECT W-5514  
-L- STA. 259+50



**SIGNING DETAIL**