

**T.I.P.: U-3306**

**CONTRACT: C202266**

**STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
 ORANGE COUNTY**

**LOCATION: CHAPEL HILL - SR 1733 (WEAVER DAIRY RD)  
 FROM NC 86 TO SR 1734 (ERWIN RD)**

TIP NO. U-3306	SHEET NO. SIGN-1
APPROVED: _____	
DATE: _____	
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 JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
903.10	GROUND MOUNTED SIGN SUPPORTS
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 U-CHANNEL.....	2540	L.F.
4102000000	904	SIGN ERECTION, TYPE E.....	172	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE D.....	2	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE E.....	1	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL.....	91	EA.
4192000000	907	DISPOSAL OF SUPPORT, U-CHANNEL.....	3	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.
- . 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.

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

RON KING, P.E. STATE SIGNING & DELINEATION ENGINEER  
 WILLIAM DEBREW SIGNING & DELINEATION DESIGN ENGINEER

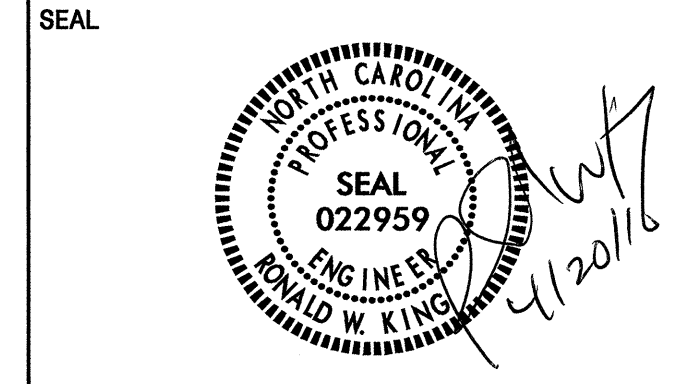
**INDEX**

SHEET NO.	DESCRIPTION
SIGN 1.....	TITLE SHEET - ROADWAY STANDARD DRAWINGS, SUMMARY OF QUANTITIES, GENERAL NOTES
SIGN 2-3.....	E SHEETS
SIGN 4.....	TYPE E SIGN DESIGNS
SIGN 5-11.....	SIGN DESIGN SHEETS

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TIP NO. U-3306						SHEET NO. SIGN-2
APPROVED: _____						
DATE: _____						
SEAL						
<p>402 QUANTITY REQ'D .13</p> <p>24 X 30 R2-1</p> <p>ONE "U" POST PER SIGN</p>	<p>414 QUANTITY REQ'D .17</p> <p>54 X 18 R6-1 (L)</p> <p>MOUNT BACK TO BACK WITH SIGN 413 IN 9 INSTALLATIONS</p> <p>TWO "U" POSTS PER SIGN</p>	<p>423 QUANTITY REQ'D .2</p> <p>24 X 30 S5-2</p> <p>ONE "U" POST PER SIGN</p>	<p>456 QUANTITY REQ'D .1</p> <p>30 X 30 R3-7(L)</p> <p>ONE "U" POST PER SIGN</p>	<p>461 QUANTITY REQ'D .2</p> <p>24 X 24 S4-1a</p> <p>MOUNT BELOW SIGN 403 IN 2 INSTALLATIONS</p>	<p>468 QUANTITY REQ'D .2</p> <p>30 X 24 SEE SIGN DESIGN</p> <p>MOUNT BELOW SIGN 467 IN 2 INSTALLATIONS</p>	
<p>403 QUANTITY REQ'D .5</p> <p>24 X 30 R2-1</p> <p>ONE "U" POST PER SIGN</p>	<p>416 QUANTITY REQ'D .2</p> <p>24 X 30 R4-7</p> <p>ONE "U" POST PER SIGN</p>	<p>433 QUANTITY REQ'D .1</p> <p>36 X 36 W9-1(R)</p> <p>ONE "U" POST PER SIGN</p>	<p>457 QUANTITY REQ'D .11</p> <p>30 X 30 W11-2</p> <p>YELLOW/GREEN REFLECTIVE SHEETING</p> <p>ONE "U" POST PER SIGN</p>	<p>464 QUANTITY REQ'D .13</p> <p>36 X 30 R4-4</p> <p>ONE "U" POST PER SIGN</p>	<p>469 QUANTITY REQ'D .3</p> <p>30 X 30 W2-6</p> <p>ONE "U" POST PER SIGN</p>	
<p>408 QUANTITY REQ'D .26</p> <p>30 X 30 R1-1</p> <p>MOUNT BELOW SIGN 413 IN 6 INSTALLATIONS</p> <p>ONE "U" POST PER SIGN</p>	<p>419 QUANTITY REQ'D .2</p> <p>30 X 8 S4-3</p> <p>YELLOW/GREEN REFLECTIVE SHEETING</p> <p>MOUNT ABOVE SIGN 403 IN 2 INSTALLATIONS</p>	<p>435 QUANTITY REQ'D .1</p> <p>36 X 36 W4-2(R)</p> <p>ONE "U" POST PER SIGN</p>	<p>458 QUANTITY REQ'D .1</p> <p>30 X 30 W14-2</p> <p>ONE "U" POST PER SIGN</p>	<p>465 QUANTITY REQ'D .7</p> <p>24 X 18 R3-17</p> <p>ONE "U" POST PER SIGN</p>	<p>470 QUANTITY REQ'D .2</p> <p>24 X 8 R3-17BP</p> <p>MOUNT BELOW SIGN 465 IN 2 INSTALLATIONS</p>	
<p>412 QUANTITY REQ'D .6</p> <p>36 X 36 X 36 R1-2</p> <p>ONE "U" POST PER SIGN</p>	<p>420 QUANTITY REQ'D .6</p> <p>24 X 12 W16-7p</p> <p>YELLOW/GREEN REFLECTIVE SHEETING</p> <p>MOUNT BELOW SIGN 457 IN 6 INSTALLATIONS</p>	<p>453 QUANTITY REQ'D .1</p> <p>36 X 36 W3-5</p> <p>ONE "U" POST PER SIGN</p>	<p>459 QUANTITY REQ'D .2</p> <p>24 X 12 W16-9p</p> <p>YELLOW/GREEN REFLECTIVE SHEETING</p> <p>MOUNT BELOW SIGN 421 IN 2 INSTALLATIONS</p>	<p>466 QUANTITY REQ'D .2</p> <p>36 X 36 R1-5</p> <p>ONE "U" POST PER SIGN</p>	<p>471 QUANTITY REQ'D .1</p> <p>24 X 24 R3-4</p> <p>ONE "U" POST PER SIGN</p>	
<p>413 QUANTITY REQ'D .24</p> <p>54 X 18 R6-1 (R)</p> <p>TWO "U" POSTS PER SIGN</p>	<p>421 QUANTITY REQ'D .2</p> <p>36 X 36 S1-1</p> <p>YELLOW/GREEN REFLECTIVE SHEETING</p> <p>ONE "U" POST PER SIGN</p>	<p>454 QUANTITY REQ'D .1</p> <p>60 X 36 R2-27</p> <p>TWO "U" POSTS PER SIGN</p>	<p>460 QUANTITY REQ'D .2</p> <p>36 X 36 S4-5</p> <p>YELLOW/GREEN REFLECTIVE SHEETING</p> <p>ONE "U" POST PER SIGN</p>	<p>467 QUANTITY REQ'D .2</p> <p>36 X 36 W11-8</p> <p>ONE "U" POST PER SIGN</p>	<p style="text-align: center; font-size: 24pt;"><b>TYPE "E" SIGNS</b></p>	

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



475 QUANTITY REQ'D .2\_



MOUNT BELOW SIGN 469  
 IN 2 INSTALLATIONS

476 QUANTITY REQ'D .1\_



MOUNT BELOW SIGN 469  
 IN 1 INSTALLATION

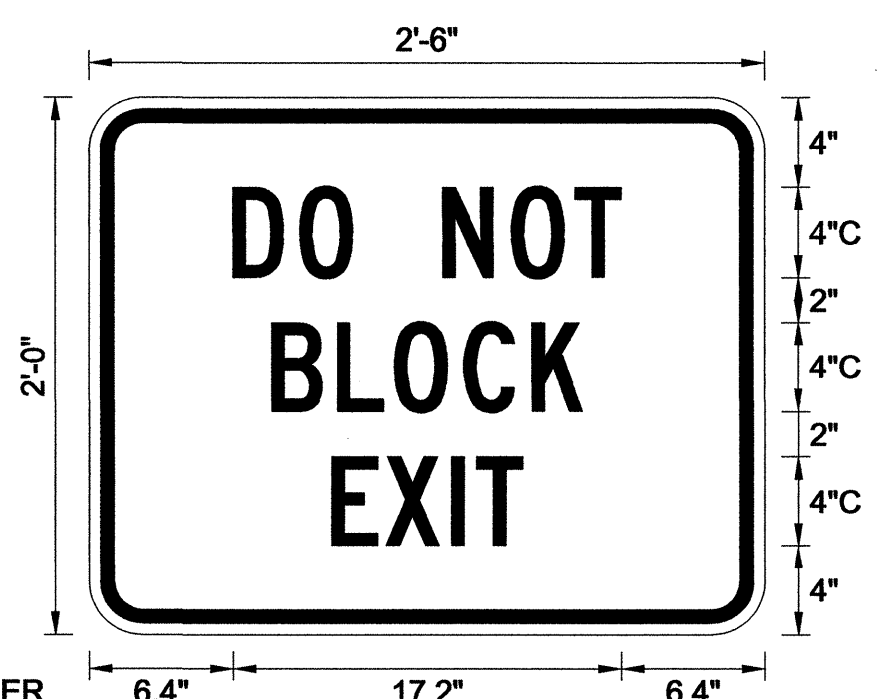
**TYPE "E" SIGNS**

TIP NO. U-3306	SHEET NO. SIGN-4
APPROVED: _____	
DATE: _____	
SEAL	

SIGN NUMBER: 468  
TYPE: E  
QUANTITY: 1  
SIGN WIDTH: 30"  
HEIGHT: 24"  
TOTAL AREA: 5.0 Sq.Ft.  
BORDER TYPE: RECESSED  
RECESS: 0.5"  
WIDTH: 0.63"  
RADII: 1.88"  
NO. Z BARS:  
LENGTH:

SYMBOL	X	Y	WID	HT

DESIGN BY: R. HENNEIN  
PROJECT ID: U-3306  
CHECKED BY:  
DIV: 7  
DATE: Mar 29, 2010



BORDER  
R=1.88"  
TH=0.63"  
IN=0.5"  
Spacing Factor is 1 unless specified otherwise

USE NOTES:  
1. Legend and border shall be direct applied Grade C sheeting.  
2. Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter

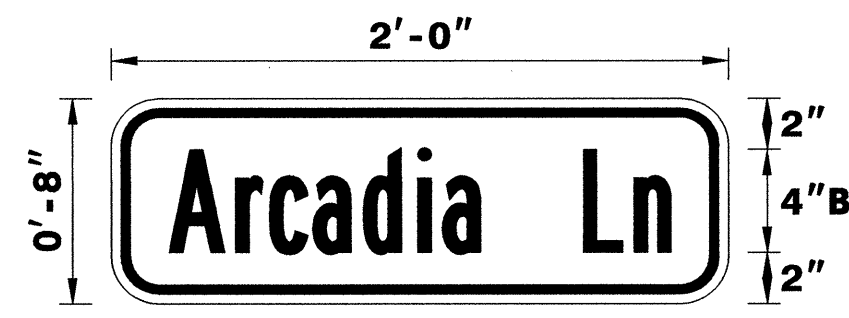
	D	O	N	O	T					Series/Size Text Length
	6.4	3	2.4	4	3	2.8	2	6.4		C 2000 17.2
		B	L	O	C	K				C 2000 13.8
	8.1	2.9	2.5	3.1	3	2.2	8.1			C 2000 8.5
		E	X	I	T					
	10.8	2.4	2.9	1.1	2	10.8				

FILENAME: signdesigns  
NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 475  
TYPE: E  
QUANTITY: 2  
SIGN WIDTH: 24"  
HEIGHT: 8"  
TOTAL AREA: 1.3 Sq.Ft.  
BORDER TYPE: RECESSED  
RECESS: 0.38"  
WIDTH: 0.38"  
RADII: 1.5"  
NO. Z BARS:  
LENGTH:

SYMBOL	X	Y	WID	HT

DESIGN BY: W. DEBREW  
PROJECT ID: U-3306  
CHECKED BY:  
DIV: 7  
DATE: Apr 13, 2010



BORDER  
R=1.5"  
TH=0.38"  
IN=0.38"  
Spacing Factor is 1 unless specified otherwise

USE NOTES:  
1. Legend and border shall be direct applied Grade C sheeting.  
2. Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter

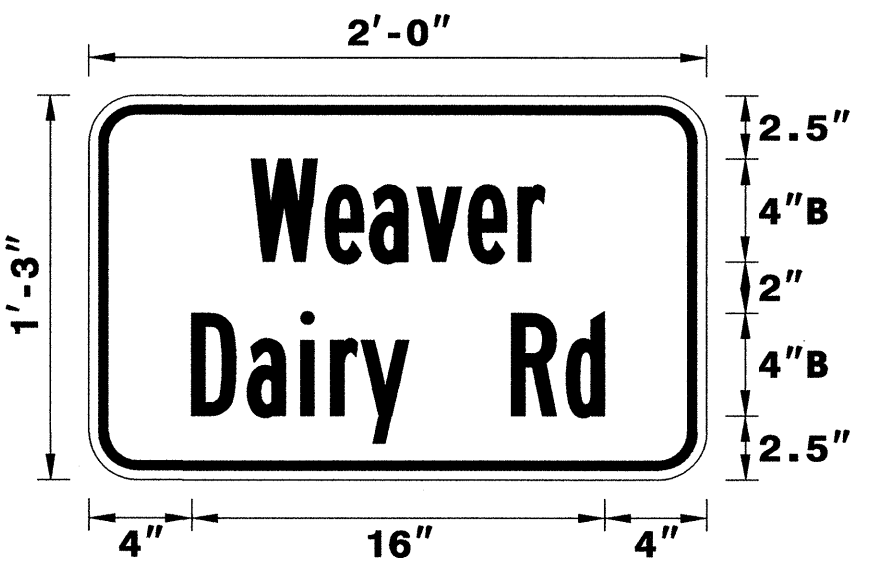
	A	r	c	a	d	i	a	L	n					Series/Size Text Length
	2.2	2.6	1.3	1.7	2	2.1	1	1.5	4	2	1.4	2.2		B 2000 19.5

FILENAME: signdesigns  
NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 476  
TYPE: E  
QUANTITY: 1  
SIGN WIDTH: 24"  
HEIGHT: 15"  
TOTAL AREA: 2.5 Sq.Ft.  
BORDER TYPE: RECESSED  
RECESS: 0.38"  
WIDTH: 0.38"  
RADII: 1.5"  
NO. Z BARS:  
LENGTH:

SYMBOL	X	Y	WID	HT

DESIGN BY: W. DEBREW  
PROJECT ID: U-3306  
CHECKED BY:  
DIV: 7  
DATE: Apr 13, 2010



BORDER  
R=1.5"  
TH=0.38"  
IN=0.38"  
Spacing Factor is 1 unless specified otherwise

USE NOTES:  
1. Legend and border shall be direct applied Grade C sheeting.  
2. Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter

	W	e	a	v	e	r								Series/Size Text Length
	6.3	2.9	1.7	1.8	2	1.9	1	6.3						B 2000 11.4
		D	a	i	r	y	R	d						B 2000 16
	4	2.2	2.1	1.2	1.2	1.8	4	2.1	1.5	4				

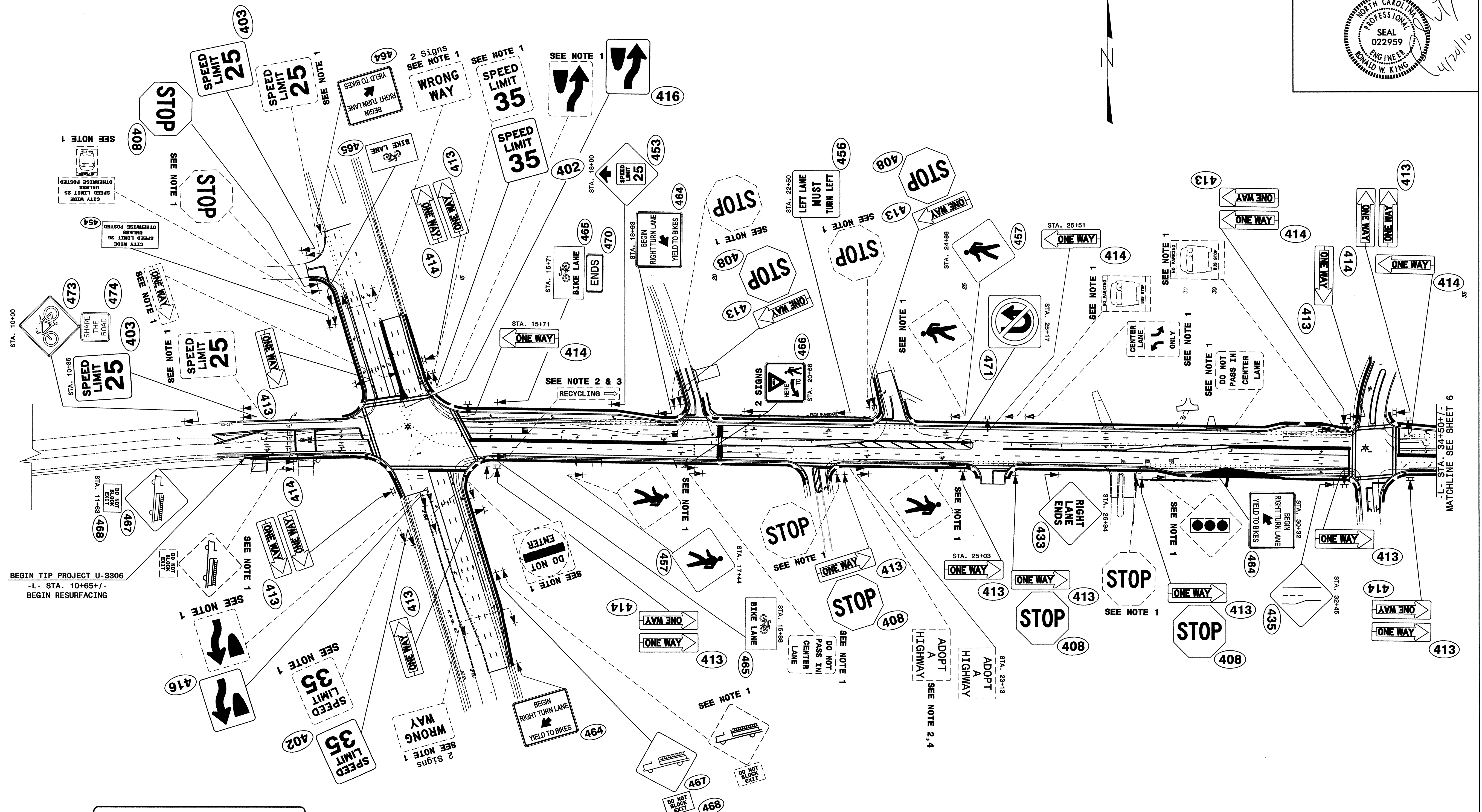
FILENAME: signdesigns  
NORTH CAROLINA D.O.T. SIGN DETAIL

**TYPE E SIGN DESIGNS**

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TIP NO. U-3306	SHEET NO. SIGN-5
APPROVED: _____	
DATE: _____	
SEAL	

4/20/10



PAY ITEM NOTES	
1	DISPOSAL OF SIGN SYSTEM, U CHANNEL
2	DISPOSAL OF SUPPORT, U CHANNEL
3	RELOCATE SIGN, TYPE D
4	RELOCATE SIGN, TYPE E

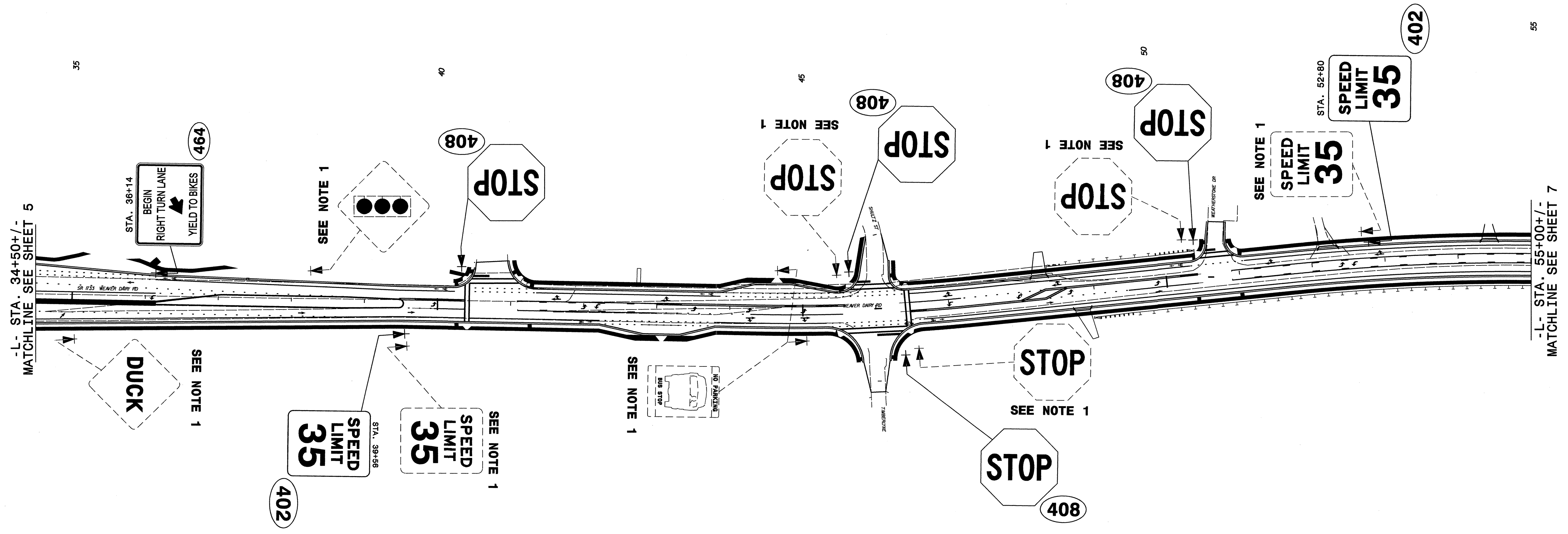
PROPOSED AND EXISTING SIGNS  
 -L- STA. 10+65+/- TO  
 -L- STA. 34+50+/-

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BEGIN TIP PROJECT U-3306  
 -L- STA. 10+65+/-  
 -L- BEGIN RESURFACING

STA. 34+50+/-  
 MATCHLINE SEE SHEET 6

TIP NO. U-3306	SHEET NO. SIGN-6
APPROVED: _____	
DATE: _____	
SEAL	



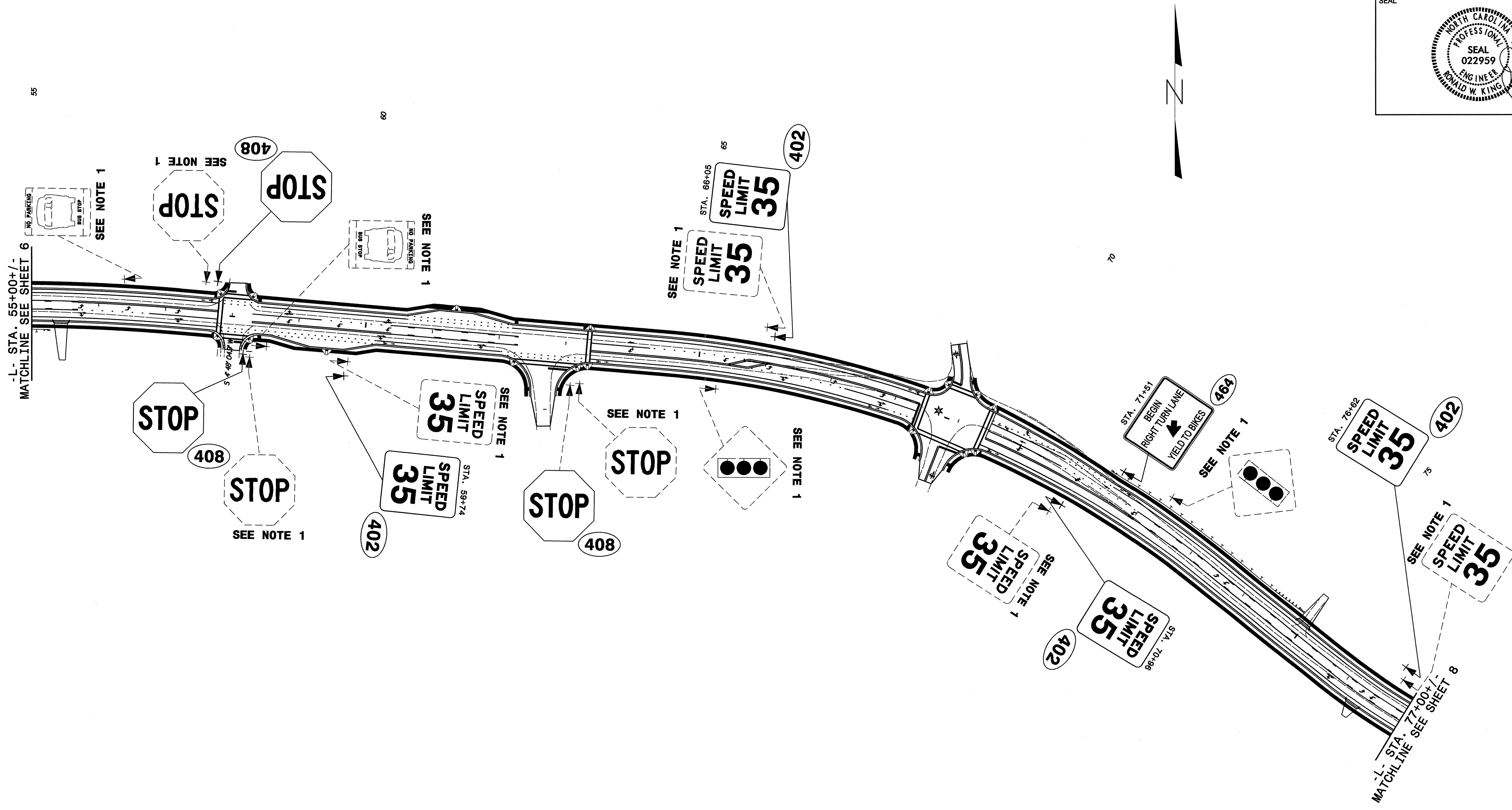
**PAY ITEM NOTES**

- 1 DISPOSAL OF SIGN SYSTEM, U CHANNEL

**PROPOSED AND EXISTING SIGNS**  
 -L- STA. 34+50+/- TO  
 -L- STA. 55+00+/-

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 wmdbr@ncdot.gov  
 4/24/10

TIP NO. U-3306	SHEET NO. SIGN-7
APPROVED: _____	
DATE: _____	
SEAL	

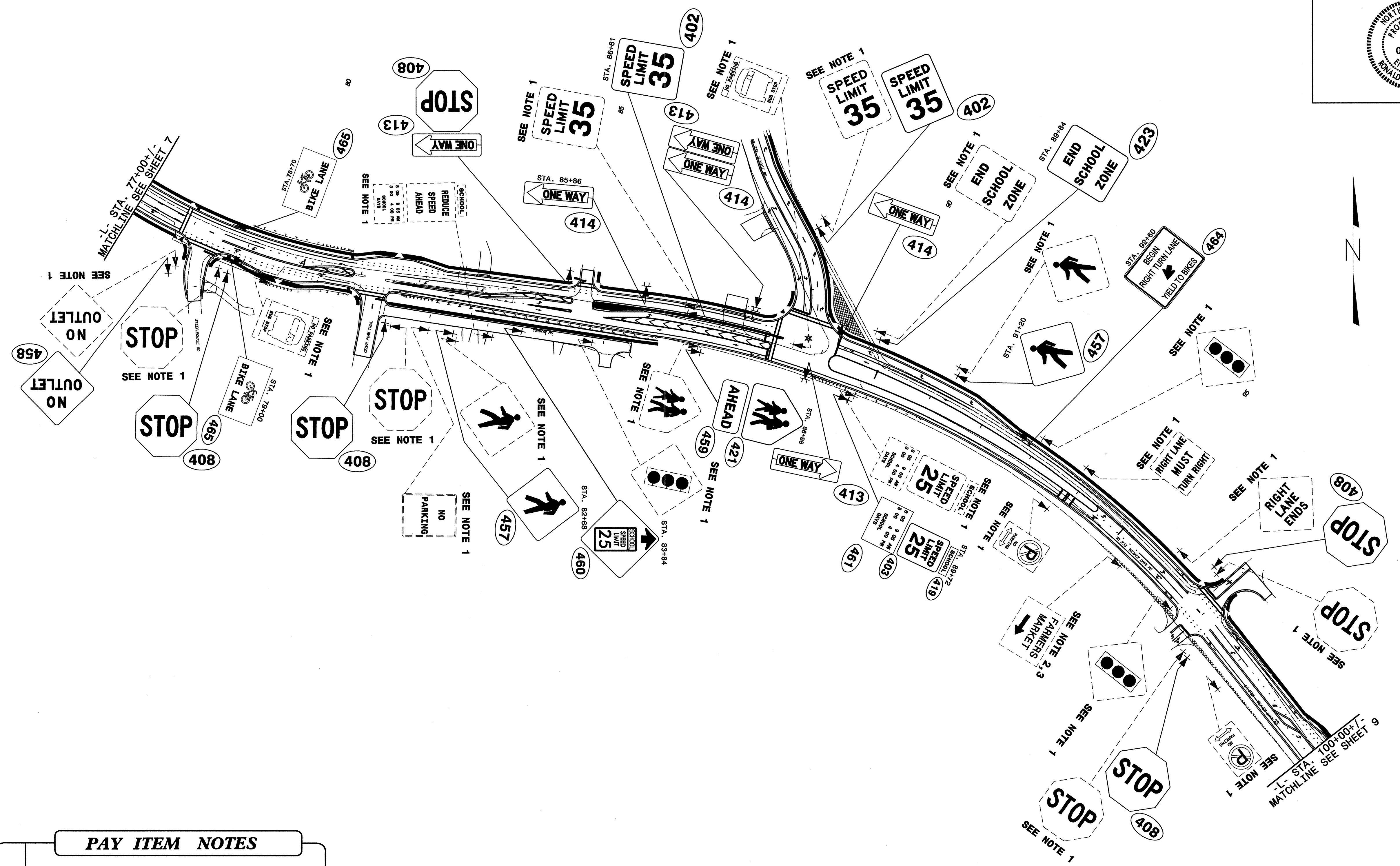


<b>PAY ITEM NOTES</b>	
1	DISPOSAL OF SIGN SYSTEM, U CHANNEL

**PROPOSED AND EXISTING SIGNS**  
 -L- STA. 55+00+/- TO  
 -L- STA. 77+00+/-

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 User: jlabrew

TIP NO. U-3306	SHEET NO. SIGN-8
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DATE: _____	
SEAL	



**PAY ITEM NOTES**


- 1 DISPOSAL OF SIGN SYSTEM, U CHANNEL
- 2 DISPOSAL OF SUPPORT, U CHANNEL
- 4 RELOCATE SIGN, TYPE E

PROPOSED AND EXISTING SIGNS  
 -L- STA. 77+00+/- TO  
 -L- STA. 100+00+/-

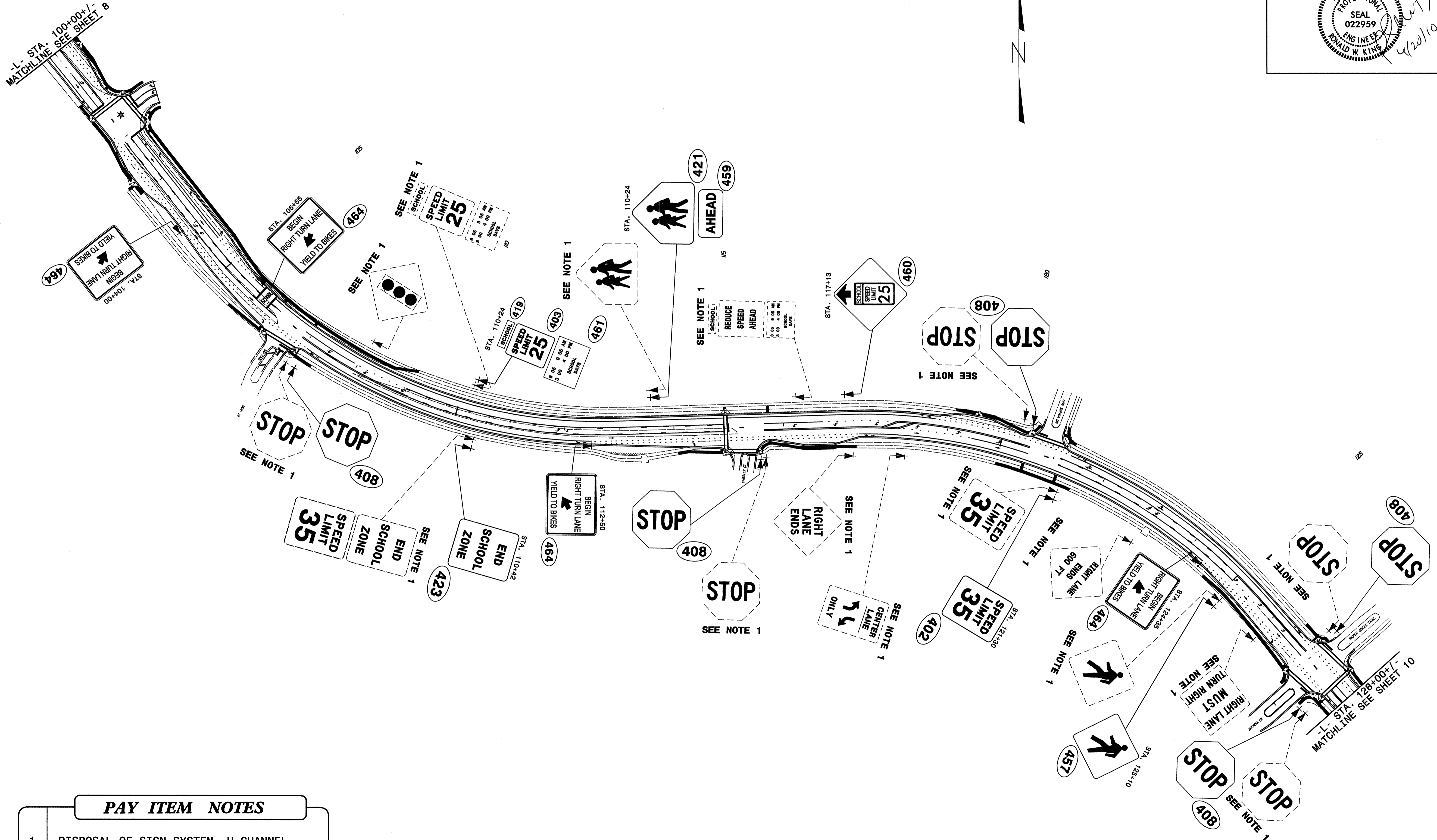
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 AT  
 wmd@brw.com



TIP NO. U-3306	SHEET NO. SIGN-9
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SEAL	



4/20/10

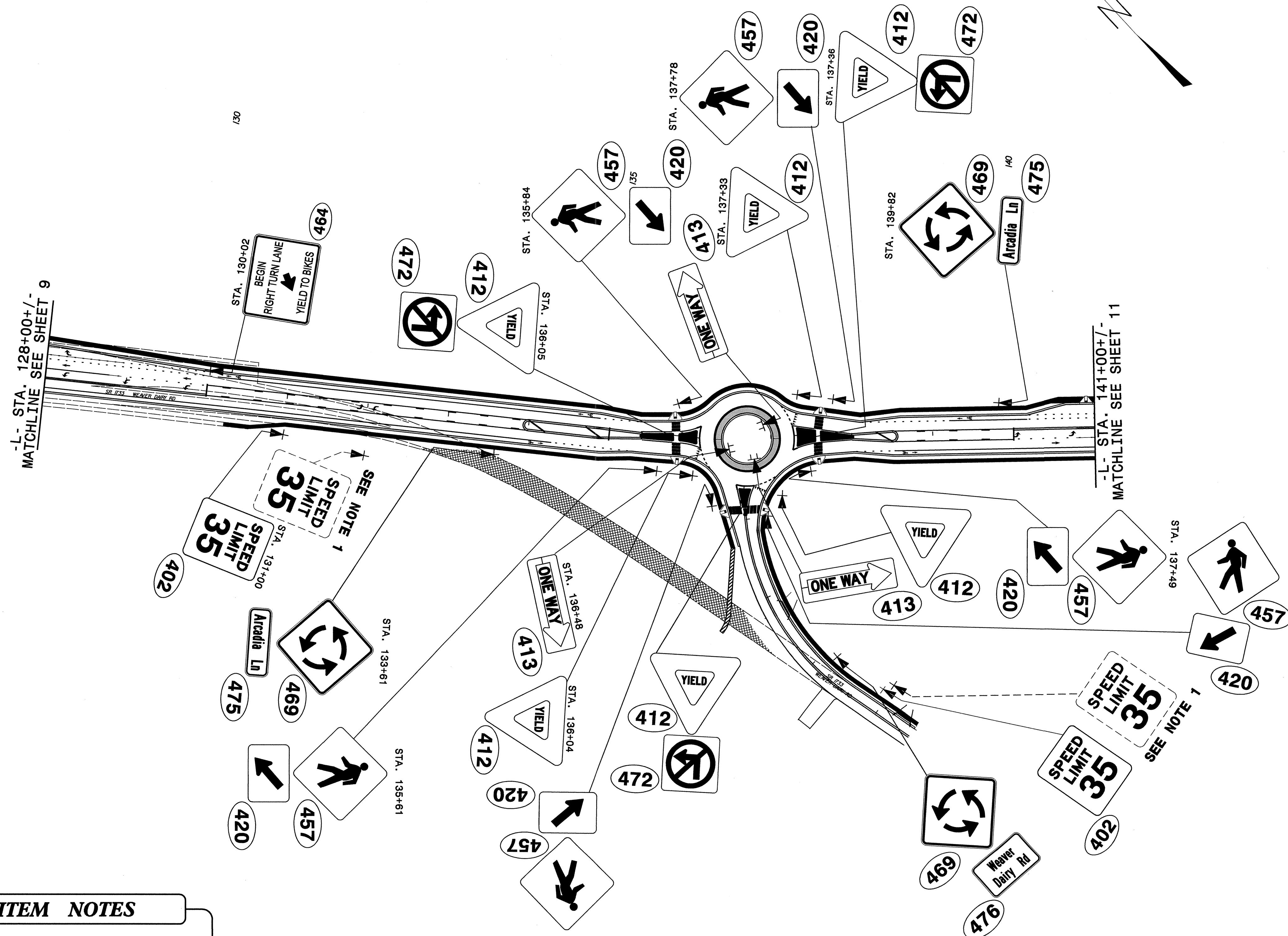
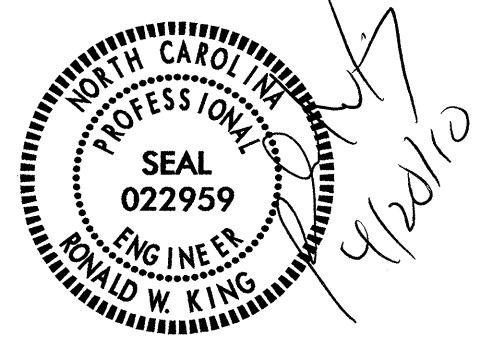


PAY ITEM NOTES	
1	DISPOSAL OF SIGN SYSTEM, U CHANNEL

**PROPOSED AND EXISTING SIGNS**  
 -L- STA. 100+00+/- TO  
 -L- STA. 128+00+/-

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 P:\TIP\2010\161331\U-3306\Traffic\Signing\CADD\Signing Layout Plans\U-3306-Sgn-sht11.dgn  
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TIP NO. U-3306	SHEET NO. SIGN-10
APPROVED: _____	
DATE: _____	
SEAL	

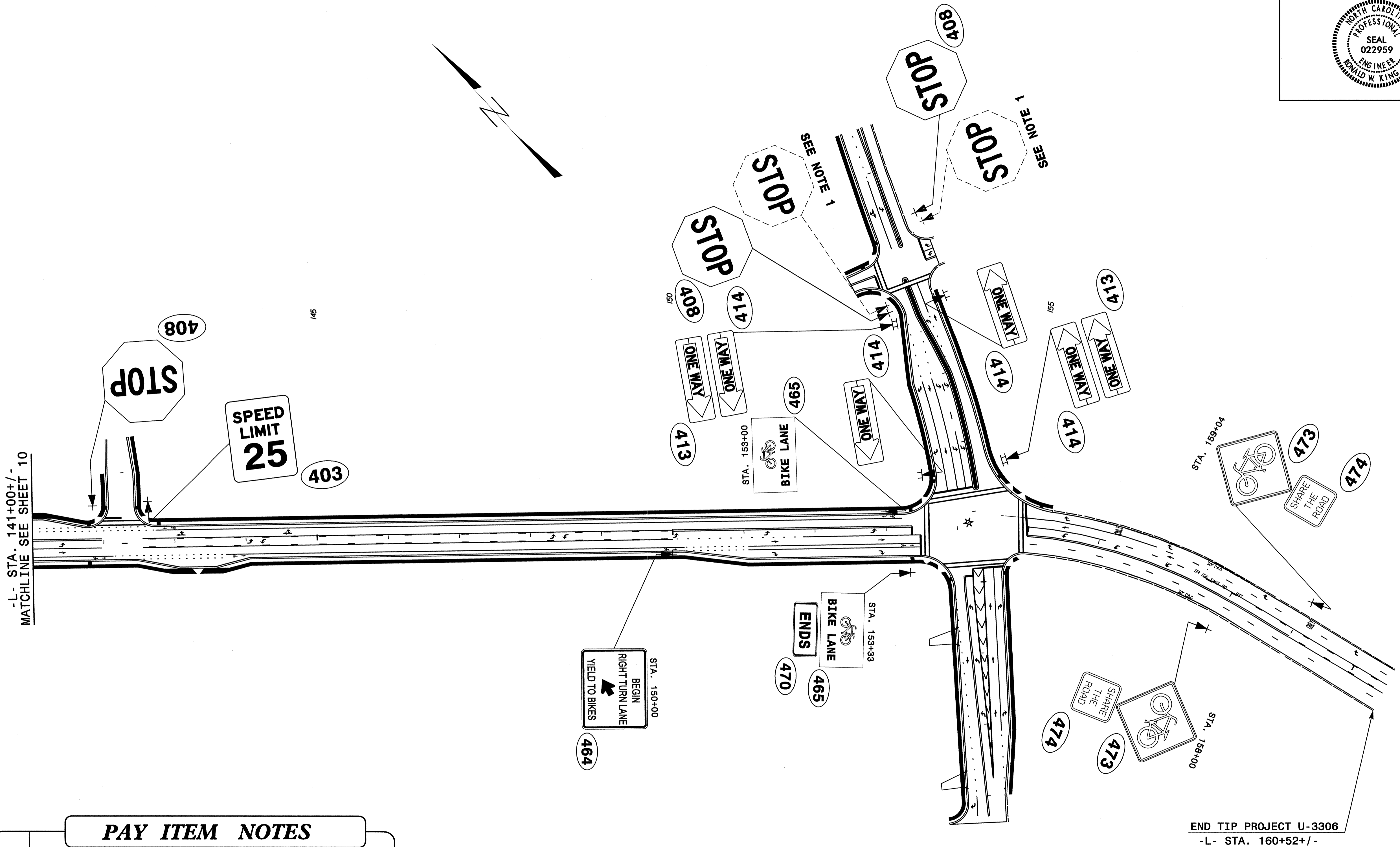


PAY ITEM NOTES	
1	DISPOSAL OF SIGN SYSTEM, U CHANNEL

EXISTING AND PROPOSED SIGNS  
 -L- STA. 128+/- TO  
 -L- STA. 141+00+/-

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 wncdebrw.ctb 12/27/07

TIP NO. U-3306	SHEET NO. SIGN-11
SEAL	



PAY ITEM NOTES	
1	DISPOSAL OF SIGN SYSTEM, U CHANNEL

EXISTING AND PROPOSED SIGNS  
 -L- STA. 141+/- TO  
 -L- STA. 160+52+/-

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