


T.I.P. PROJECT: R-5861

CONTRACT: C204877

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN
CHEROKEE COUNTY**

**LOCATION: WIDENING US 19 /129 FROM THE GEORGIA STATE LINE
TO US 64 /74.**

<small>TIP NO.</small> R-5861	<small>SHEET NO.</small> SIGN-1
<small>APPROVED:</small> <i>David T. Sears</i> <small>DATE:</small> 10/30/2023	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

<u>STD. NO.</u>	<u>TITLE</u>
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS, SHEET 2 OF 2
910.50	SIGNING FOR SPEED REDUCTION ZONES
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

GENERAL NOTES

- . SIGNS FURNISHED BY STATE (BUNN PLANT)
- . CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ACTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.
- . 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.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	1,975	L.F.
4096000000	904	SIGN ERECTION, TYPE D	5	EA.
4102000000	904	SIGN ERECTION, TYPE E	111	EA.
4108000000	904	SIGN ERECTION, TYPE F	9	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE D	1	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE E	2	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	70	EA.
4192000000	907	DISPOSAL OF SUPPORT, U-CHANNEL	3	EA.
4360000000	SP	RECTANGULAR RAPID FLASHING BEACON ASSEMBLY	8	EA.
4360000000	SP	DISPOSAL OF FLASHER SYSTEM	2	EA.

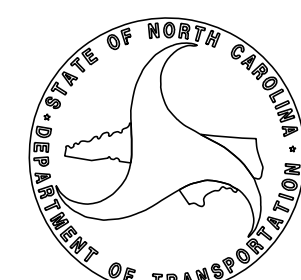
INDEX

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
SIGN-1	TITLE SHEET
SIGN-1A	PLAN SHEET LAYOUT
SIGN-2-2A	REVISED SIGNING ROADWAY STANDARD DRAWING
SIGN-3-3A	E AND F SIGNS
SIGN-3B-3C	SIGN DESIGNS
SIGN-4-17	SIGNING PLAN SHEETS

PLAN SUBMITTED TO: NCDOT DIVISION 14

STEVEN BUCHANAN DIVISION TRAFFIC ENGINEER

KELVIN L. JORDAN SIGNING AND DELINEATION REGIONAL ENGINEER



PLAN PREPARED BY: RK&K

David Sears, PE, PTOE Project Engineer


Allen Tutt Sr. Designer

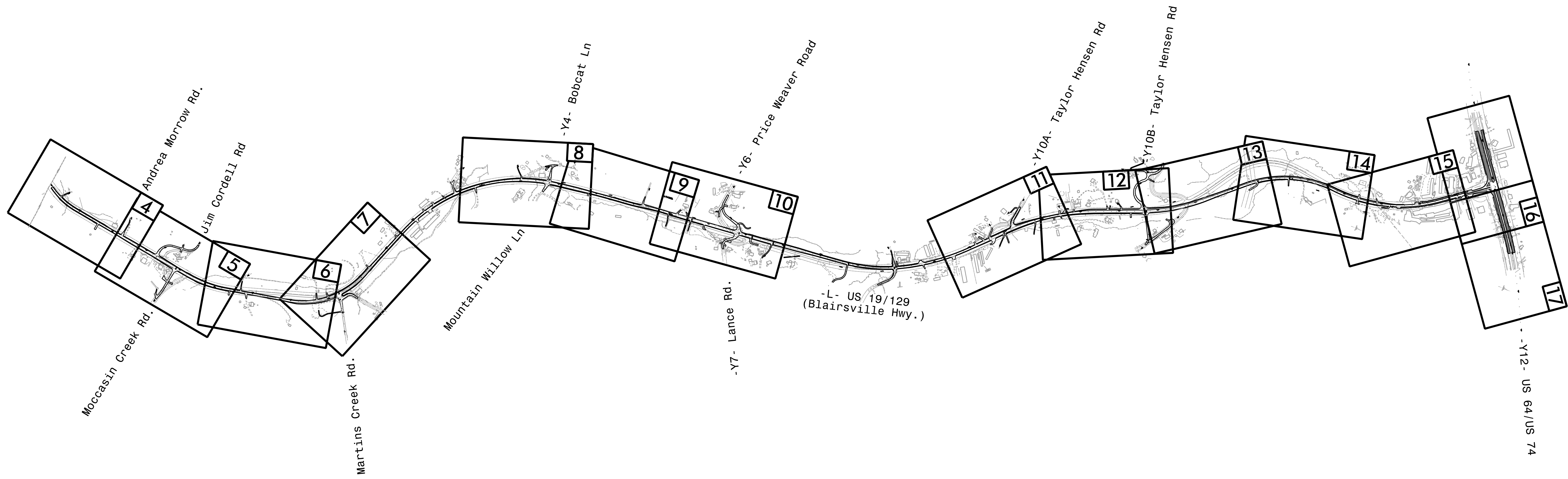
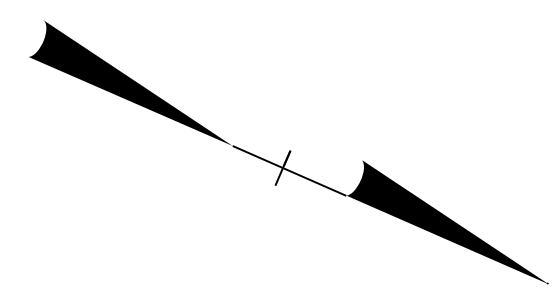


P: (919) 878-9560
8801 Six Forks Road, Forum 1, Suite 700
Raleigh, North Carolina 27615-3960
NC License No. F-0112

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PROJECT REFERENCE NO. R - 5861	SHEET NO. SIGN - 1A
APPROVED: <i>David Sears</i> 089183P28E8741E	
DATE: 10/18/2023	
SEAL	
	
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RK&K
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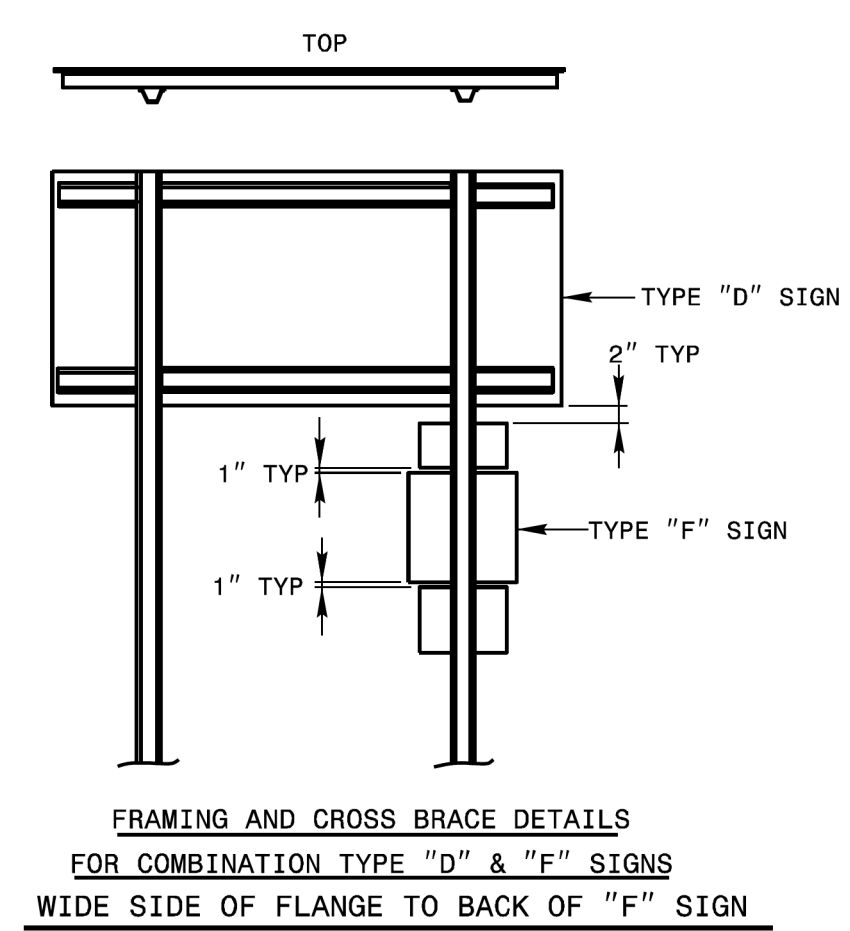
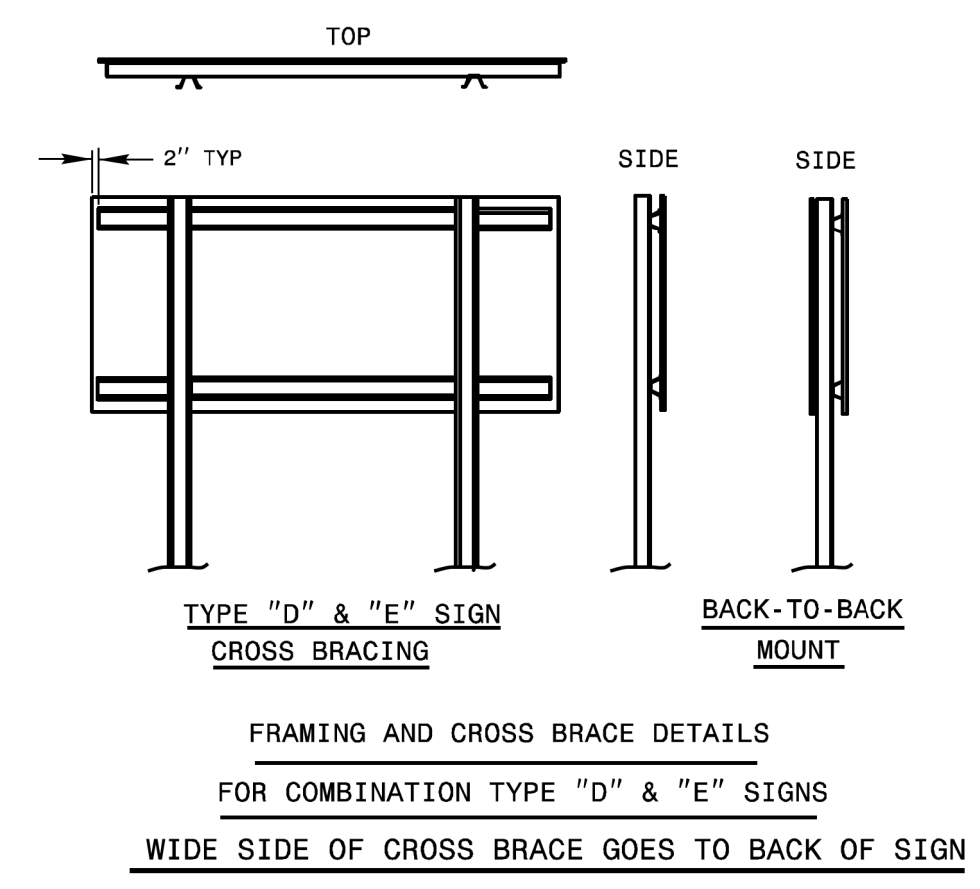
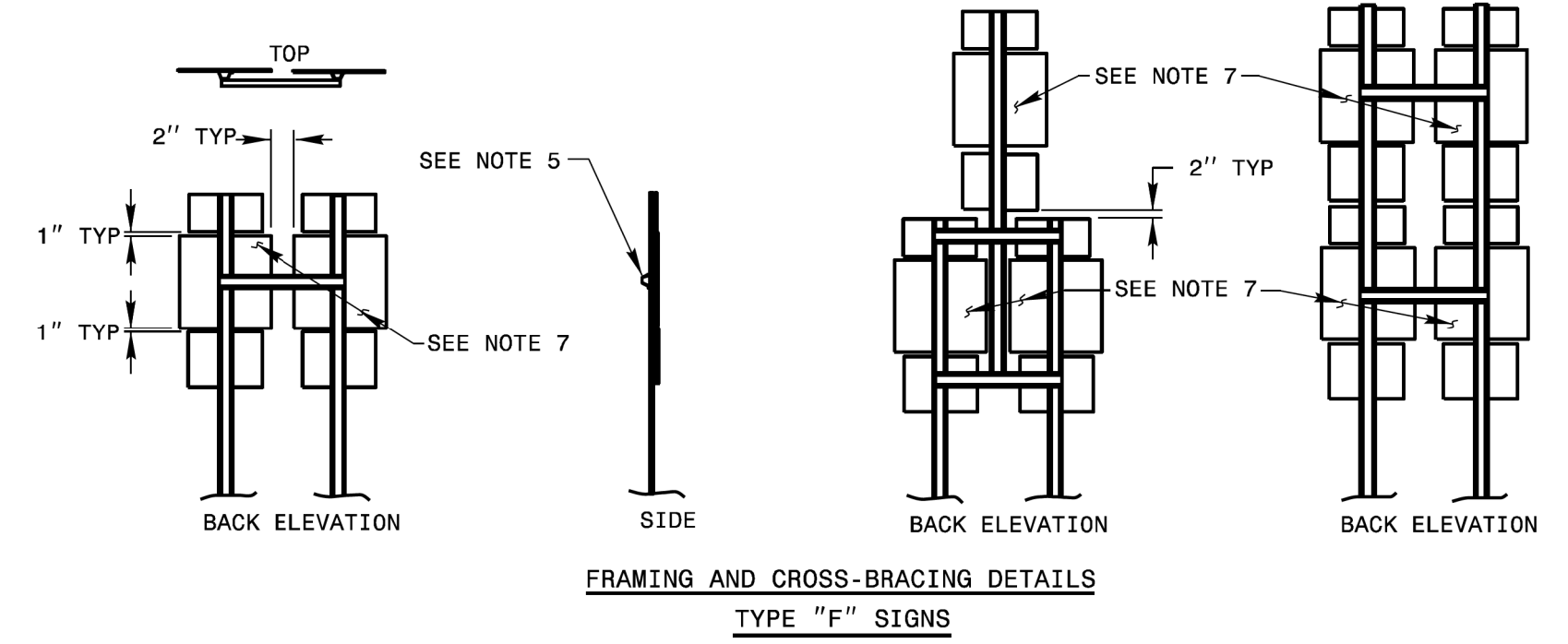
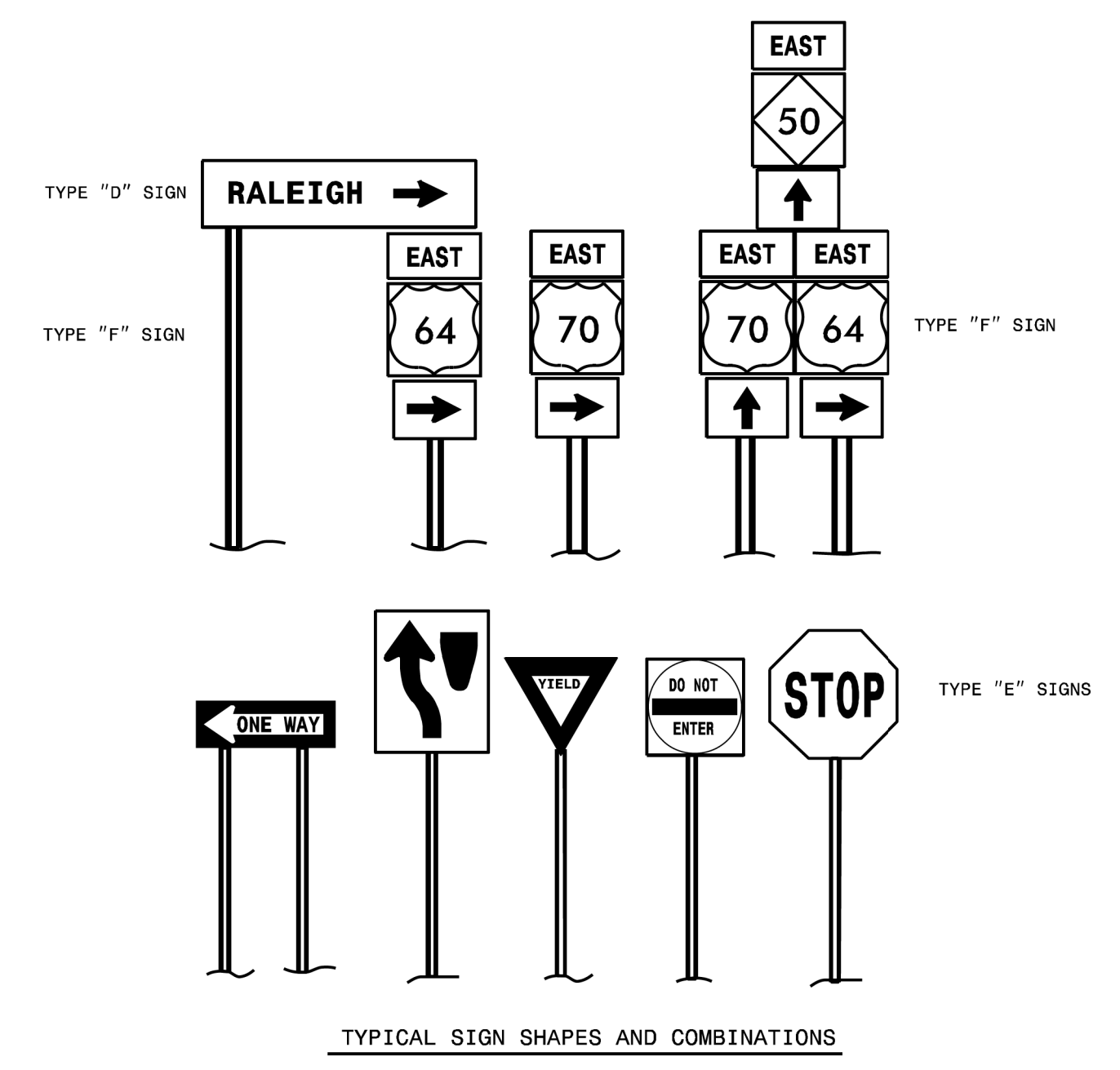
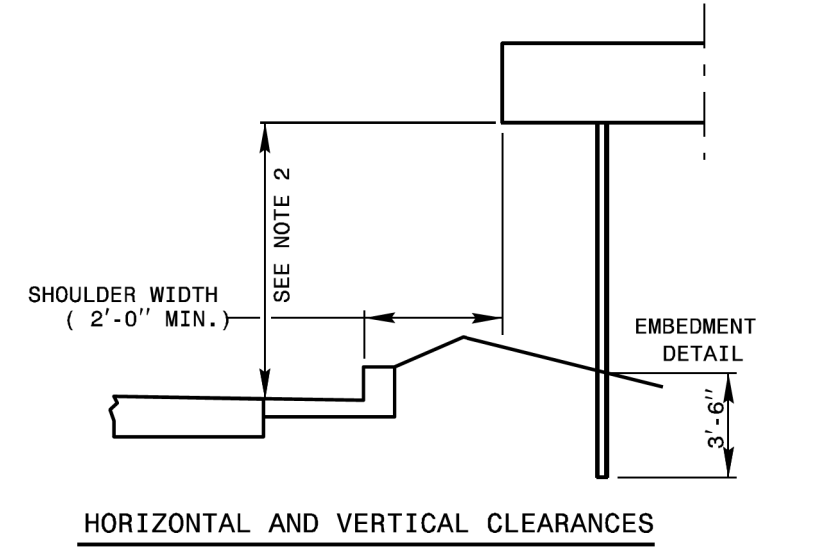
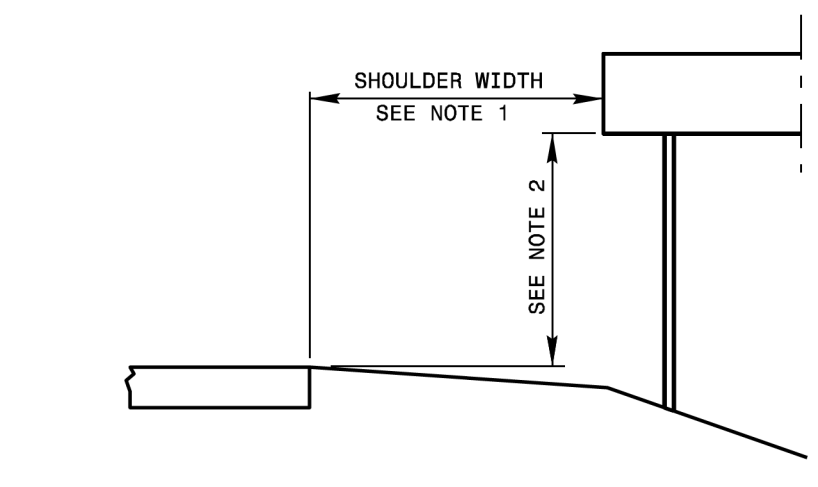
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PLAN SHEET LAYOUT

STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

6-21
 ENGLISH DETAIL DRAWING FOR
 MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS
 ON 'U' CHANNEL POSTS
 SHEET 1 OF 2
 904D50



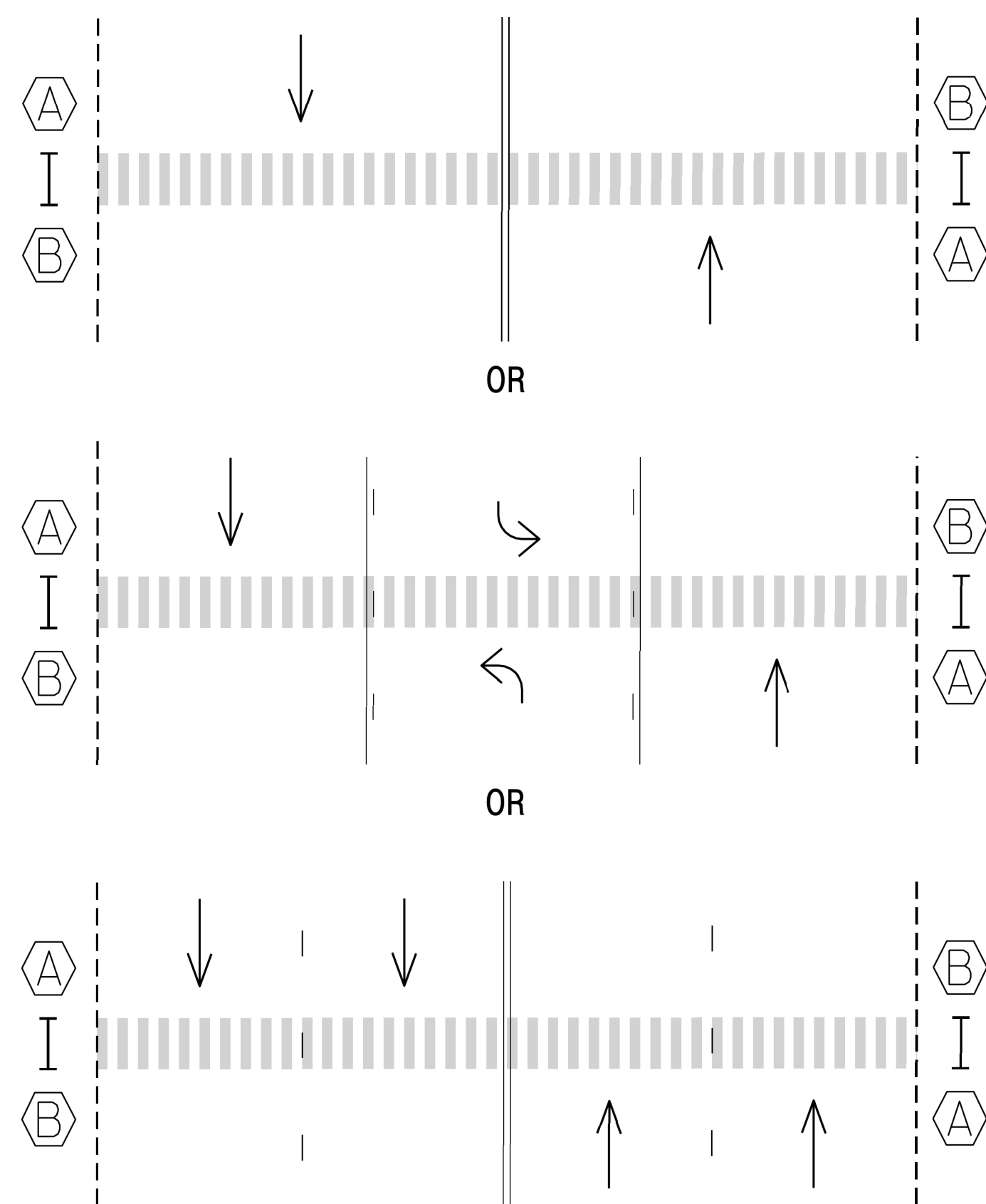
- NOTES:
1. ERECT TYPE "D", "E", AND "F" SIGNS ON FREEWAYS WITH THE NEAR EDGE OF THE SIGN 20 FT. FROM THE TRAVEL LANE. ERECT ALL OTHER "D", "E", AND "F" SIGNS WITH THE NEAR EDGE OF THE SIGN AT THE EDGE OF THE SHOULDER BREAK (6 FT. MINIMUM CLEARANCE, 12 FT. DESIRABLE, FROM THE EDGE OF TRAVEL LANE), OR AS DIMENSIONED ON PLAN SHEETS.
 2. ERECT TYPE "D", "E", AND "F" SIGNS WITH THE BOTTOM OF SIGN ASSEMBLY AT LEAST 7 FT. ABOVE THE EDGE OF THE TRAVEL LANE ON ROADS WITH 2 OR MORE LANES IN THE SAME DIRECTION AND AT LEAST 5 FT. ON OTHER ROUTES. THE VERTICAL CLEARANCE IS 7 FT. WHERE REQUIRED FOR PEDESTRIAN TRAFFIC AND/OR PARKED VEHICLES.
 3. THE VERTICAL DIMENSION BETWEEN MOUNTING HOLE CENTERS ON ALL TYPES "D", "E", AND "F" SIGNS IS 30" MAXIMUM. THE VERTICAL AND HORIZONTAL DIMENSIONS BETWEEN MOUNTING HOLES IS TO THE WHOLE INCH. EACH SIGN PANEL HAS A MINIMUM OF 2 BOLTS PER SUPPORT.
 4. ATTACH SIGN W/ 5/16" HEX HEAD BOLT, NYLON WASHER, SHIM, FLAT WASHER, LOCK WASHER, HEX NUT. NO BUCKLING OF THE SIGN WILL BE PERMITTED. SEE ASSEMBLY DETAIL SHEET# 2 OF 904.50.
 5. FURNISH AND INSTALL CROSS-BRACING AS SHOWN IN DETAIL. PAINT ENDS OF CROSS BRACES W/ APPROVED. ZINC PAINT.
 6. INSTALL POST AND CROSS-BRACING WITH THE WIDE SIDE OF THE FLANGE TOWARD THE BACK OF SIGN(S) FOR COMBINATION TYPE "D" AND "F" SIGNS.
 7. THE SHIELD HEIGHTS IN THESE ASSEMBLIES CAN NOT BE LARGER THAN 24".
 8. IF SIGN ASSEMBLIES REQUIRE MORE THAN TWO U-CHANNEL SUPPORTS, THE SUPPORTS SHALL BE PLACED A MINIMUM OF 4 FT. BETWEEN POSTS. NO MORE THAN TWO POSTS SHALL FALL WITHIN 7 FT. PATH, OR THE SIGN ASSEMBLY MUST BE PLACED BEHIND BARRIER PROTECTION.

6-21
 STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

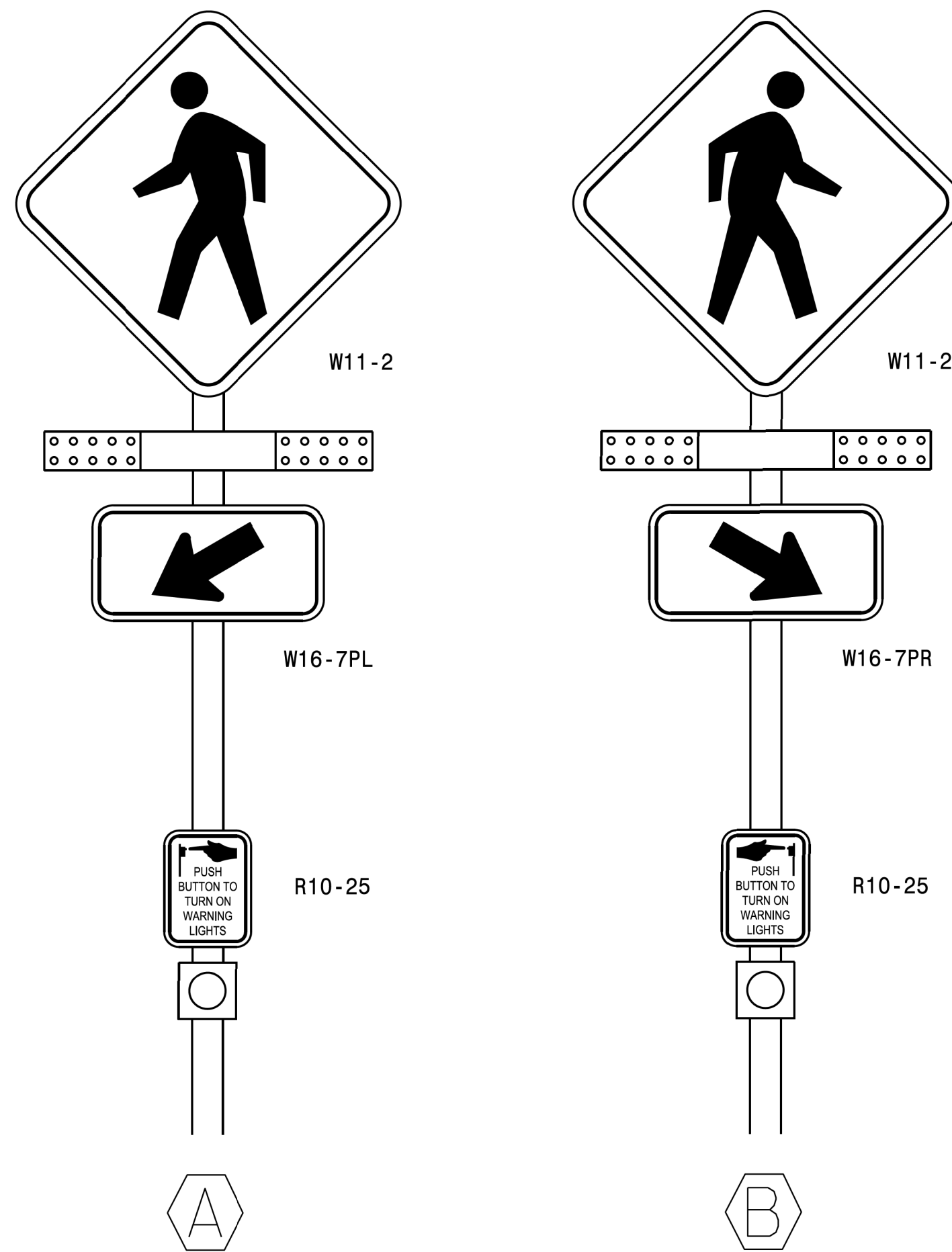
ENGLISH DETAIL DRAWING FOR
 MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS
 ON 'U' CHANNEL POSTS
 SHEET 1 OF 2
 904D50

6/18/2021 5:38:00 PM S:\JUL\Standards Group\Standards and Drawings\Drawings\2018 Standard Dwgs\Division 9 Final\0904.50_sgn_sht01_uchannel.post_6-21.dgn User:dstokes

Two to Four Lanes, Undivided



RRFB Sign Detail



Notes

1. Design the RRFB in accordance with the 2009 MUTCD Interim Approval 21 -- Rectangular Rapid-Flashing Beacons at Crosswalks. The RRFB unit associated with a post-mounted sign and plaque should be located between the pedestrian crossing warning (W11-2) sign and the supplemental downward diagonal arrow plaque (W16-7p).
2. If sight distance approaching the crosswalk is deemed insufficient, a supplemental RRFB with an "AHEAD" (W16-9P) plaque may be installed on that approach in advance of the crosswalk.
3. When practical, the RRFB and mounting post on the right side of the road shall be mounted on the approach side of the crosswalk closest to approaching traffic.
4. When practical, the RRFB and mounting post on the left side of the road may be mounted on the back of the post for the opposing approach.
5. A RRFB on the left side of the roadway or in the median may be individually mounted on the approach side of the crosswalk closest to approaching traffic, or, when practical, may be mounted back to back on the same post and mounted on either side of the crosswalk in the median.
6. Locate push button sign (R10-25) and push button to face crosswalk, even if it is mounted on the back side of the sign.
7. All RRFB units associated with a given crosswalk (including those with an advance crossing sign) shall, when actuated, simultaneously commence operation of their rapid-flashing indications and shall cease operation simultaneously.

Timing of RRFBs

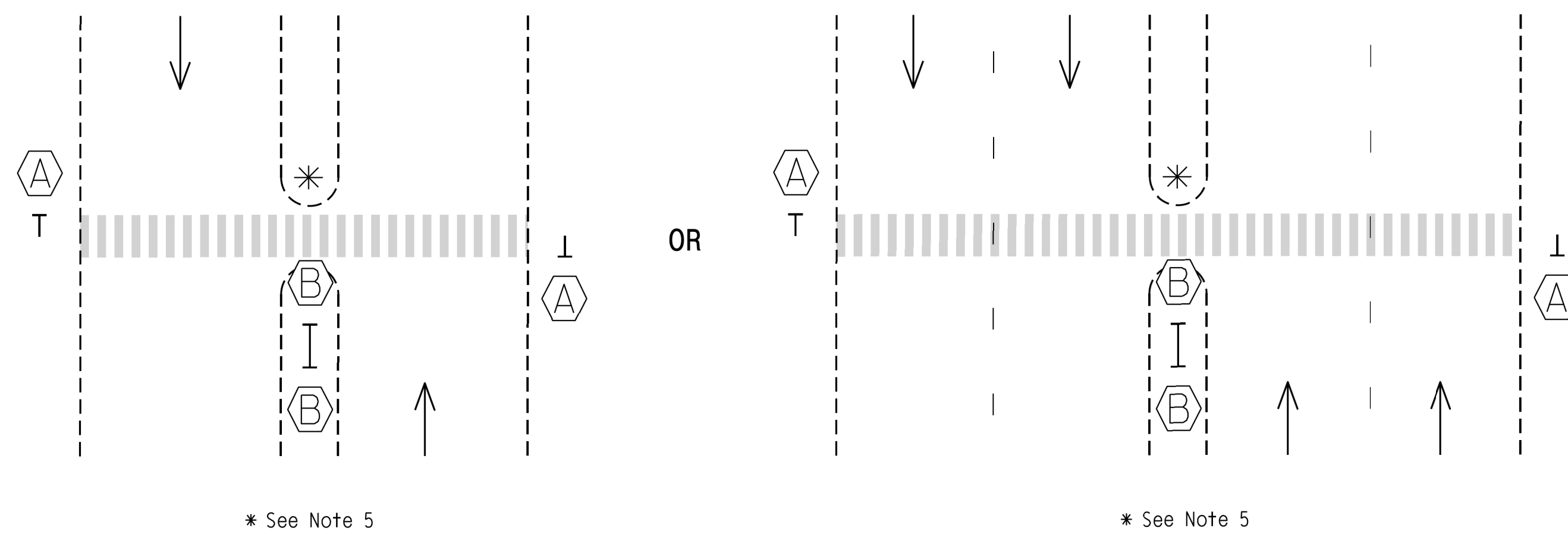
When actuated, the two yellow indications in each RRFB unit shall flash in a rapidly flashing sequence. The RRFB shall flashing sequence shall provide enough time for pedestrians to cross from curb to curb. It is recommended to be a minimum of 7 seconds plus the crossing distance (D) divided by 3.5 feet/per sec., rounded up to the next whole second:

$$\text{Flash Time (sec.)} = 7 + D/3.5$$

RRFBs shall provide 75 flashing sequences per minute. During each 800-millisecond flashing sequence, the left and right RRFB indications shall operate using the following sequence:

- The RRFB indication on the left-hand side shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- The RRFB indication on the right-hand side shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- The RRFB indication on the left-hand side shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- The RRFB indication on the right-hand side shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- Both RRFB indications shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- Both RRFB indications shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 250 milliseconds.

Two or Multi-Lanes, Divided



19-DEC-2022, 15:47 S:\MITSUMI\SIGNAL\Signal\Central Region\Rob's Files\RRFB_Signs\rrfb.dgn rzl:emba

Standard Drawing for Rectangular Rapid Flashing Beacon

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Prepared in the Offices of:

750 N. Greenfield Parkway
Garner, NC 27529

SEAL
NORTH CAROLINA
PROFESSIONAL ENGINEER
SEAL 026486
ROBERT J. ZIEMBA

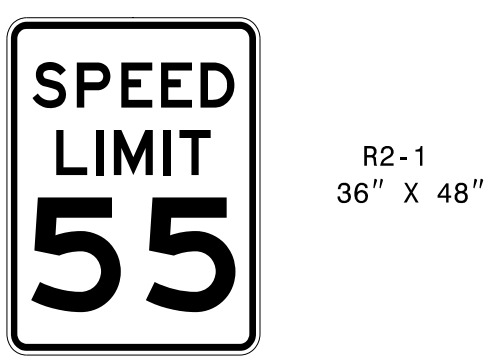
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Signature
12/19/2022
DATE

401 QUANTITY REQ'D 1




MOUNT ABOVE SIGN-402
IN ONE INSTALLATION

402 QUANTITY REQ'D 1



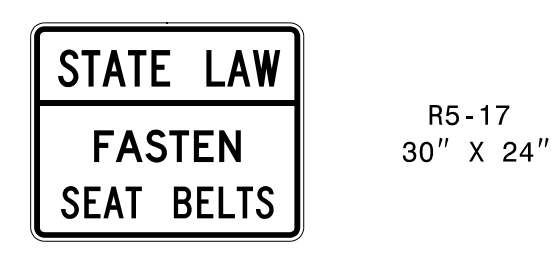
TWO "U" CHANNEL POSTS

403 QUANTITY REQ'D 1



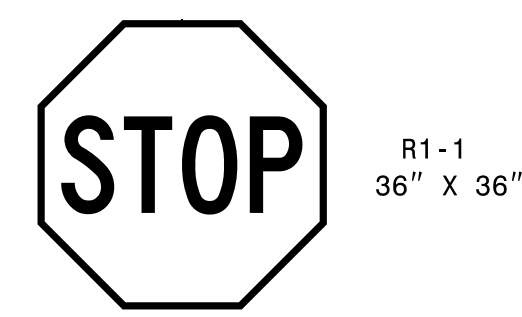
MOUNT BELOW SIGN-402
IN ONE INSTALLATION

404 QUANTITY REQ'D 1



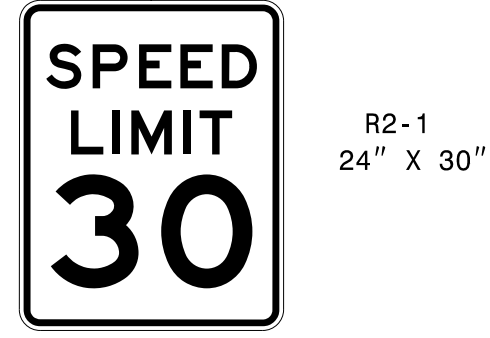
ONE "U" CHANNEL POST

405 QUANTITY REQ'D 14



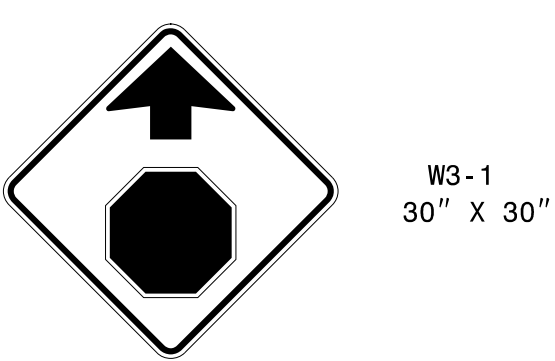
ONE "U" CHANNEL POST PER SIGN

406 QUANTITY REQ'D 1



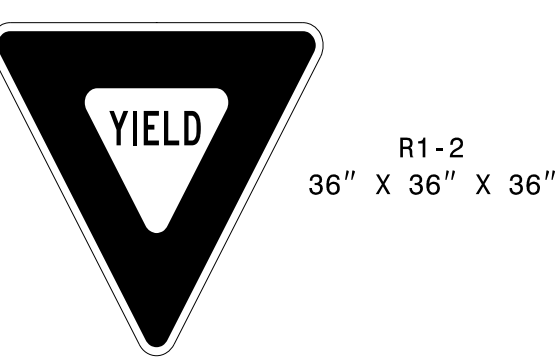
ONE "U" CHANNEL POST

407 QUANTITY REQ'D 7



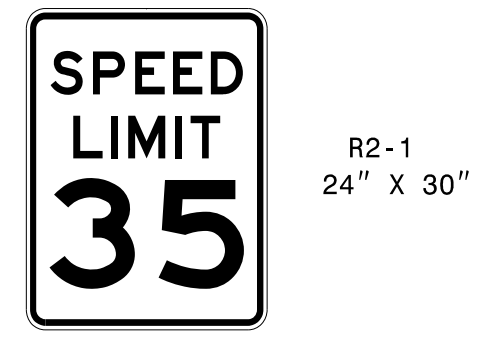
ONE "U" CHANNEL POST PER SIGN

408 QUANTITY REQ'D 2



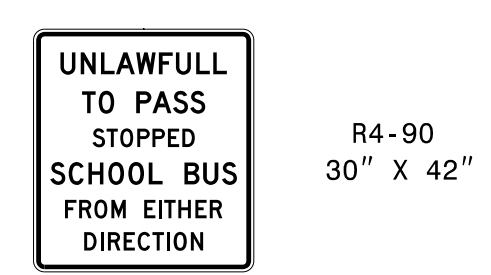
ONE "U" CHANNEL POST PER SIGN

409 QUANTITY REQ'D 7



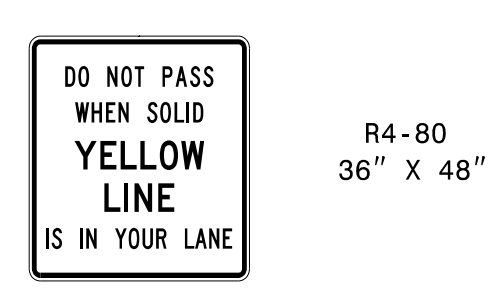
ONE "U" CHANNEL POST PER SIGN

410 QUANTITY REQ'D 1



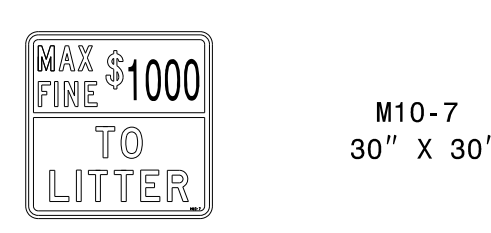
ONE "U" CHANNEL POST

411 QUANTITY REQ'D 1



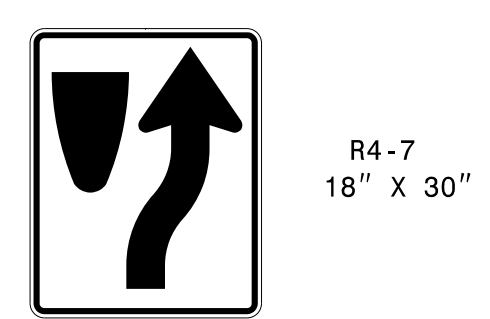
TWO "U" CHANNEL POSTS

412 QUANTITY REQ'D 1




ONE "U" CHANNEL POST

413 QUANTITY REQ'D 1



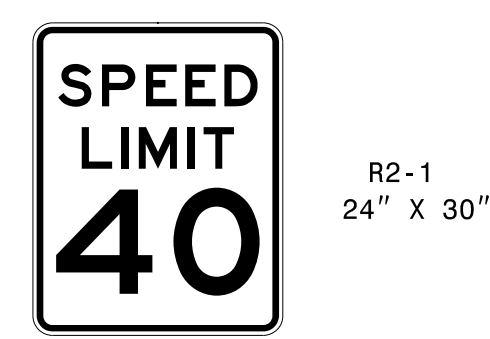
ONE "U" CHANNEL POST

414 QUANTITY REQ'D 8



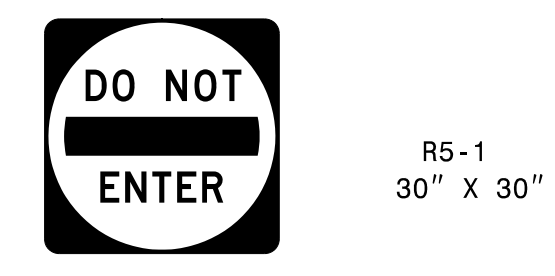
MOUNT BACK-TO-BACK ON RRFB ASSEMBLY SUPPORT
BELOW SIGN 427 IN EIGHT INSTALLATIONS

415 QUANTITY REQ'D 1



ONE "U" CHANNEL POST

416 QUANTITY REQ'D 1




ONE "U" CHANNEL POST

417 QUANTITY REQ'D 4



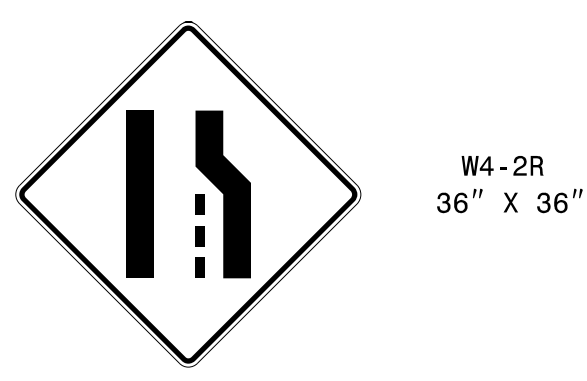
ONE "U" CHANNEL POST PER SIGN

418 QUANTITY REQ'D 1



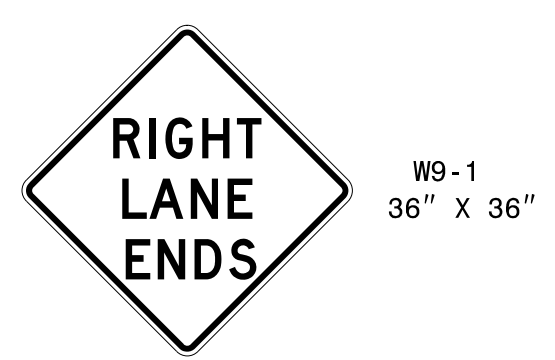
ONE "U" CHANNEL POST

419 QUANTITY REQ'D 1



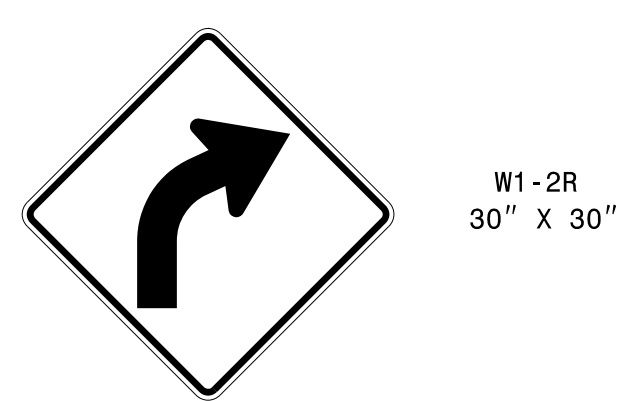
ONE "U" CHANNEL POST

420 QUANTITY REQ'D 1




ONE "U" CHANNEL POST

421 QUANTITY REQ'D 6



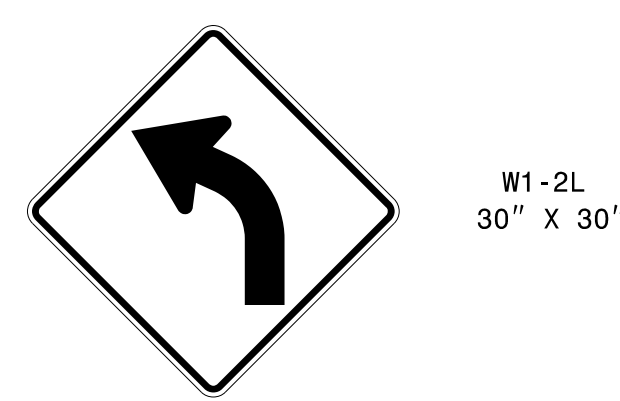
ONE "U" CHANNEL POST PER SIGN

422 QUANTITY REQ'D 6



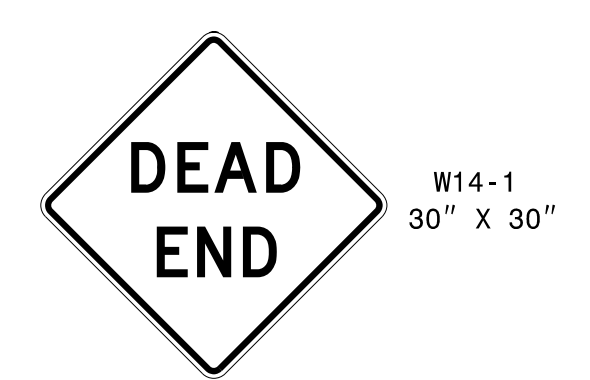
MOUNT BELOW SIGN 421
IN THREE INSTALLATIONS AND
SIGN 423 IN THREE INSTALLATIONS

423 QUANTITY REQ'D 6



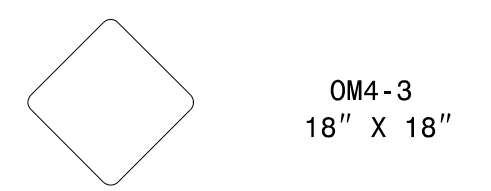
ONE "U" CHANNEL POST PER SIGN

424 QUANTITY REQ'D 1



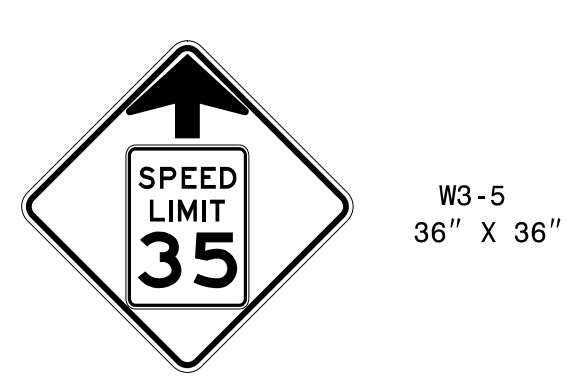
ONE "U" CHANNEL POST

425 QUANTITY REQ'D 3



ONE "U" CHANNEL POST PER SIGN

426 QUANTITY REQ'D 1




ONE "U" CHANNEL POST

427 QUANTITY REQ'D 10



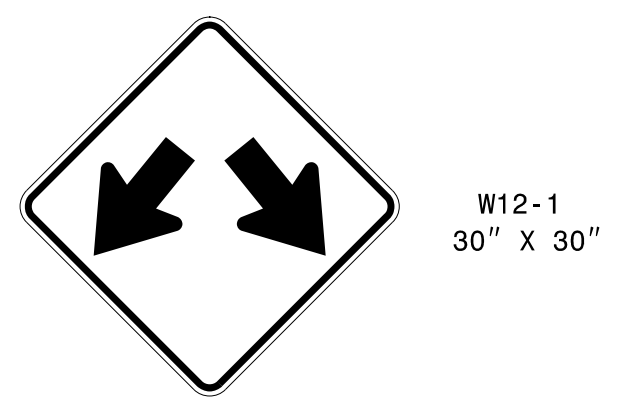
COLOR: FLUORESCENT YELLOW-GREEN
MOUNT BACK-TO-BACK ON RRFB ASSEMBLY SUPPORT
IN EIGHT INSTALLATIONS
ONE "U" CHANNEL POST PER SIGN
IN TWO INSTALLATIONS.

428 QUANTITY REQ'D 4



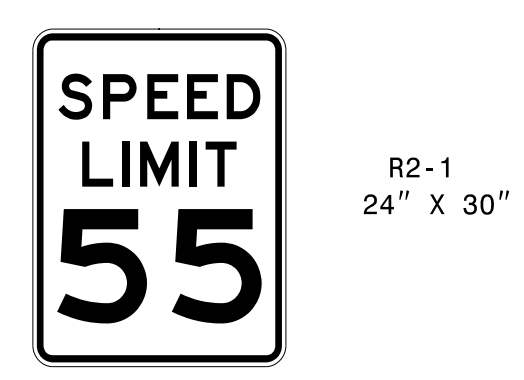
COLOR: FLUORESCENT YELLOW-GREEN
MOUNT BACK-TO-BACK ON RRFB ASSEMBLY SUPPORT
BELOW SIGN 427 IN FOUR INSTALLATIONS

429 QUANTITY REQ'D 1




ONE "U" CHANNEL POST

430 QUANTITY REQ'D 3



ONE "U" CHANNEL POST PER SIGN

431 QUANTITY REQ'D 2



COLOR: FLUORESCENT YELLOW-GREEN
MOUNT BELOW SIGN 427
IN TWO INSTALLATIONS

PROPOSED "E" SIGNS

432 QUANTITY REQ'D 1



R5-15
48" X 54"

TWO "U" CHANNEL POSTS

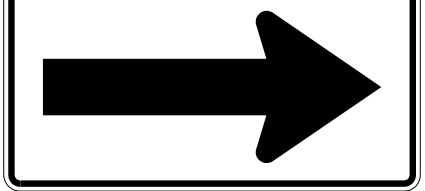
433 QUANTITY REQ'D 1



R5-16
48" X 24"

MOUNT BELOW SIGN 432
IN ONE INSTALLATION


434 QUANTITY REQ'D 6



W1-6
48" X 24"

TWO "U" CHANNEL POSTS PER SIGN


435 QUANTITY REQ'D 2



W13-1P
18" X 18"

MOUNT BELOW SIGN 421
IN ONE INSTALLATION AND
SIGN 423 IN ONE INSTALLATION


436 QUANTITY REQ'D 2



W13-1P
18" X 18"

MOUNT BELOW SIGN 421
IN ONE INSTALLATION AND
SIGN 423 IN ONE INSTALLATION

437 QUANTITY REQ'D 4




W16-7R
24" X 12"

COLOR: FLUORESCENT YELLOW-GREEN

MOUNT BACK-TO-BACK ON RRFB ASSEMBLY SUPPORT
BELOW SIGN 427 IN FOUR INSTALLATIONS


438 QUANTITY REQ'D 2



R6-1L
54" X 18"

TWO "U" CHANNEL POSTS PER SIGN


439 QUANTITY REQ'D 2



R5-1
36" X 36"

ONE "U" CHANNEL POST IN ONE INSTALLATION.
MOUNT BACK TO BACK WITH SIGN 505
IN ONE INSTALLATION.

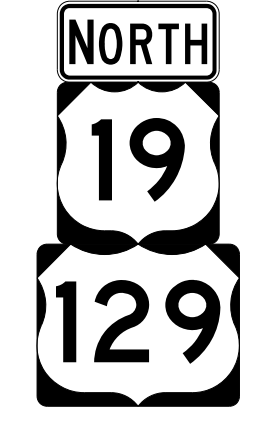
440 QUANTITY REQ'D 2



R5-1a
42" X 30"

MOUNT BACK TO BACK WITH SIGN 303
IN ONE INSTALLATION.
TWO "U" CHANNEL POSTS IN ONE INSTALLATION.

501




M3-1
24" X 12"

M1-4
24" X 24"

M1-4
30" X 24"

ONE "U" CHANNEL POST

502



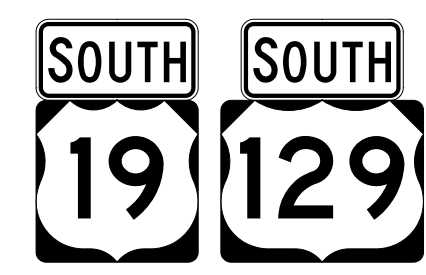
M2-1
21" X 15"

M1-4
24" X 24"

M1-4
24" X 24"

ONE "U" CHANNEL POST

503



M3-3
24" X 12"

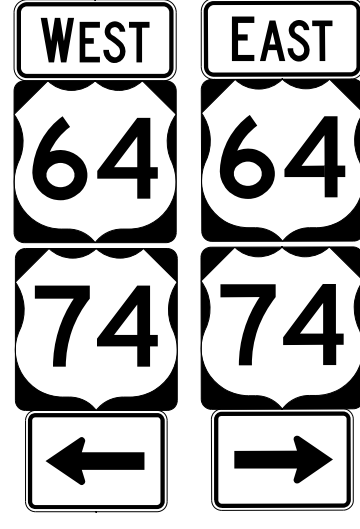
M1-4
24" X 24"

M3-3
24" X 12"

M1-4
30" X 24"

MOUNT BELOW SIGN 301

504



M3-4
24" X 12"

M1-4
24" X 24"

M1-4
24" X 24"

M1-4
24" X 24"

M6-1
21" X 15"

M3-2
24" X 12"

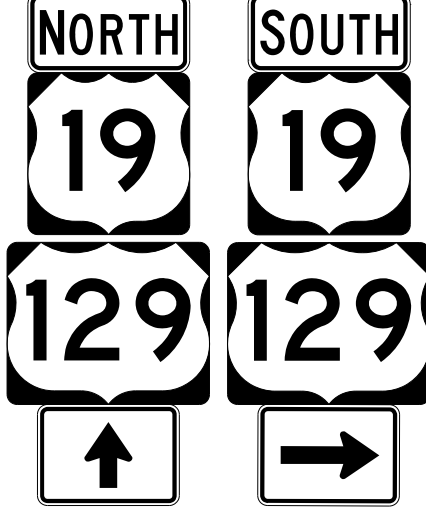
M1-4
24" X 24"

M1-4
24" X 24"

M6-1
21" X 15"

TWO "U" CHANNEL POSTS

505



M3-1
24" X 12"

M1-4
24" X 24"

M1-4
30" X 24"

M6-3
21" X 15"

M3-3
24" X 12"


M1-4
24" X 24"

M1-4
30" X 24"

M6-1
21" X 15"

TWO "U" CHANNEL POSTS

506



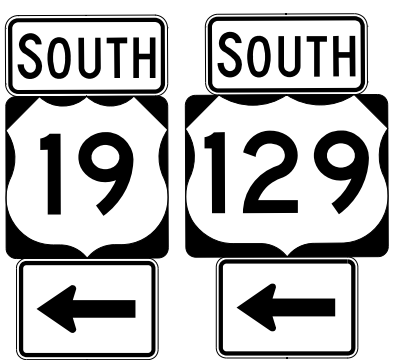
M3-4
24" X 12"

M1-4
24" X 24"

M1-4
24" X 24"

ONE "U" CHANNEL POST

507



M3-3
24" X 12"

M1-4
24" X 24"

M6-1
21" X 15"

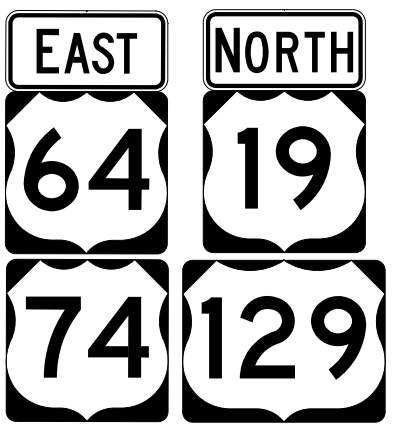
M3-3
24" X 12"

M1-4
30" X 24"

M6-1
21" X 15"

TWO "U" CHANNEL POSTS

508



M3-2
24" X 12"

M1-4
24" X 24"

M1-4
24" X 24"

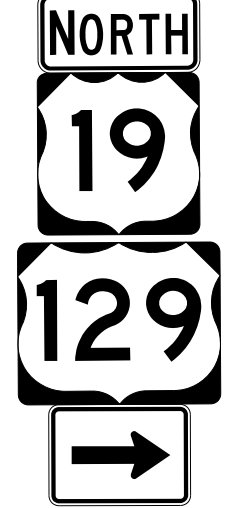
M3-1
24" X 12"

M1-4
24" X 24"

M1-4
30" X 24"

TWO "U" CHANNEL POST

509



M3-1
24" X 12"

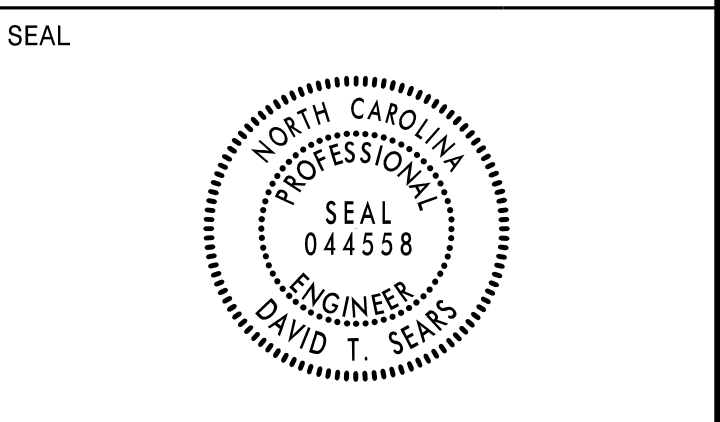
M1-4
24" X 24"

M1-4
30" X 24"

M6-1
21" X 15"

ONE "U" CHANNEL POST

APPROVED: *David Sears*
069183F28E5741E
 DATE: 10/18/2023



**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**

SIGN NUMBER: 301 TYPE: D QUANTITY: 1
 SIGN WIDTH: 6'-0" HEIGHT: 2'-6" TOTAL AREA: 15.0 Sq.Ft.
 BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.75" RADII: 2.25"
 NO. Z BARS: LENGTH:

BACKG COLOR: Green COPY COLOR: White

SYMBOL	X	Y	WID	HT
AR_Type D	6.2	19.2	6	9
AR_Type D	48	4.7	6	9

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: A. TUTT CHECKED BY: D. SEARS Feb 18, 2020
 PROJECT ID: R-5861 LOCATION: -L- STA. 206+30 DIV: 14

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.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
D 2000	34.1
D 2000	6.9
D 2000	25.1
D 2000	12.2

FILENAME: R5861_SGN_Designs_NEW NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 302 TYPE: D QUANTITY: 1
 SIGN WIDTH: 6'-0" HEIGHT: 2'-6" TOTAL AREA: 15.0 Sq.Ft.
 BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.75" RADII: 2.25"
 NO. Z BARS: LENGTH:

BACKG COLOR: Green COPY COLOR: White

SYMBOL	X	Y	WID	HT
AR_Type D	6.2	19.2	6	9
AR_Type D	48	4.7	6	9

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: A. TUTT CHECKED BY: D. SEARS Mar 23, 2022
 PROJECT ID: R-5861 LOCATION: -L- STA. 205+65 DIV: 14

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.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
D 2000	44.6
D 2000	26.9

FILENAME: R5861_SGN_Designs_NEW NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 303 TYPE: D QUANTITY: 1
 SIGN WIDTH: 5'-6" HEIGHT: 2'-6" TOTAL AREA: 13.8 Sq.Ft.
 BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.75" RADII: 2.25"
 NO. Z BARS: LENGTH:

BACKG COLOR: Green COPY COLOR: White

SYMBOL	X	Y	WID	HT
AR_Type D	13.5	17.8	6	9
AR_Type D	48.5	4.8	6	9

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: A. TUTT CHECKED BY: D. SEARS Feb 17, 2020
 PROJECT ID: R-5861 LOCATION: -Y12- STA. 22+50 DIV: 14

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.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
D 2000	26.9
D 2000	34.1

FILENAME: R5861_SGN_Designs_NEW NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 304 TYPE: D QUANTITY: 1
 SIGN WIDTH: 6'-0" HEIGHT: 2'-6" TOTAL AREA: 15.0 Sq.Ft.
 BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.75" RADII: 2.25"
 NO. Z BARS: LENGTH:

BACKG COLOR: Green COPY COLOR: White

SYMBOL	X	Y	WID	HT
AR_Type D	7.7	17.8	6	9
AR_Type D	11.5	4.8	6	9

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: A. TUTT CHECKED BY: D. SEARS Feb 17, 2020
 PROJECT ID: R-5861 LOCATION: -Y12- STA. 32+50 DIV: 14

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.

Spacing Factor is 1 unless specified otherwise

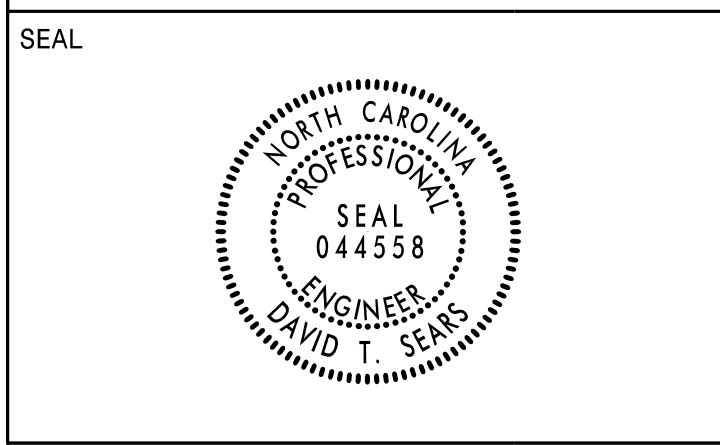
LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
D 2000	44.6
D 2000	34.1

FILENAME: R5861_SGN_Designs_NEW NORTH CAROLINA D.O.T. SIGN DETAIL

APPROVED: *David Sears*
DocuSigned by:
 David Sears
 069183F28E5741E...
 DATE: 10/18/2023



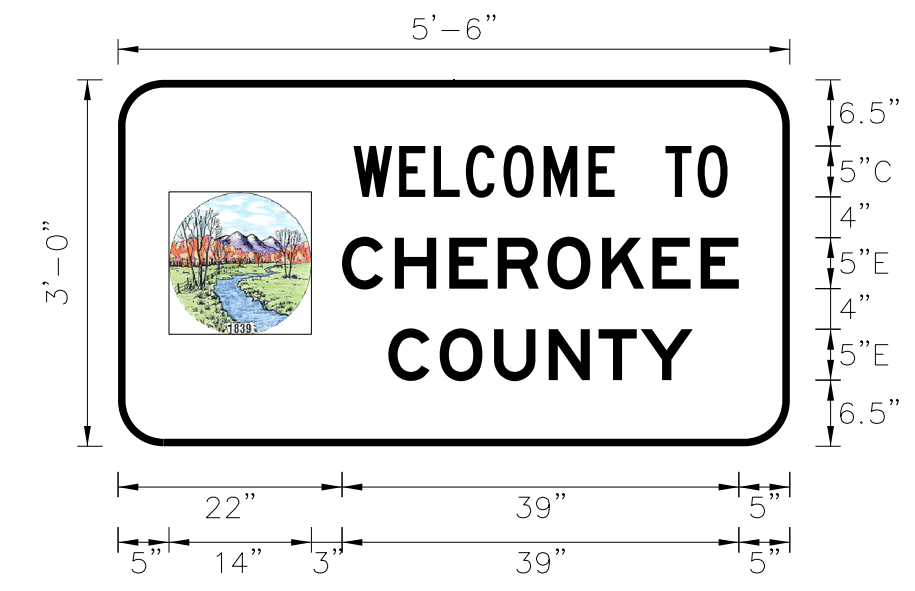
**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**

SIGN NUMBER: 305 BACKG COLOR: Green DESIGN BY: D. SEARS CHECKED BY: D. SEARS Mar 25, 2022
 TYPE: D COPY COLOR: White PROJECT ID: R-5861 LOCATION: -L- STA. 12+50 DIV: 14
 QUANTITY: 1

SYMBOL	X	Y	WID	HT
County_Logo	5.0	11.0	14	14

SIGN WIDTH: 5'-6"
 HEIGHT: 3'-0"
 TOTAL AREA: 16.5 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 4.5"
 NO. Z BARS:
 LENGTH:
 MAT'L: 0.125" (3.2 mm) ALUMINUM

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.



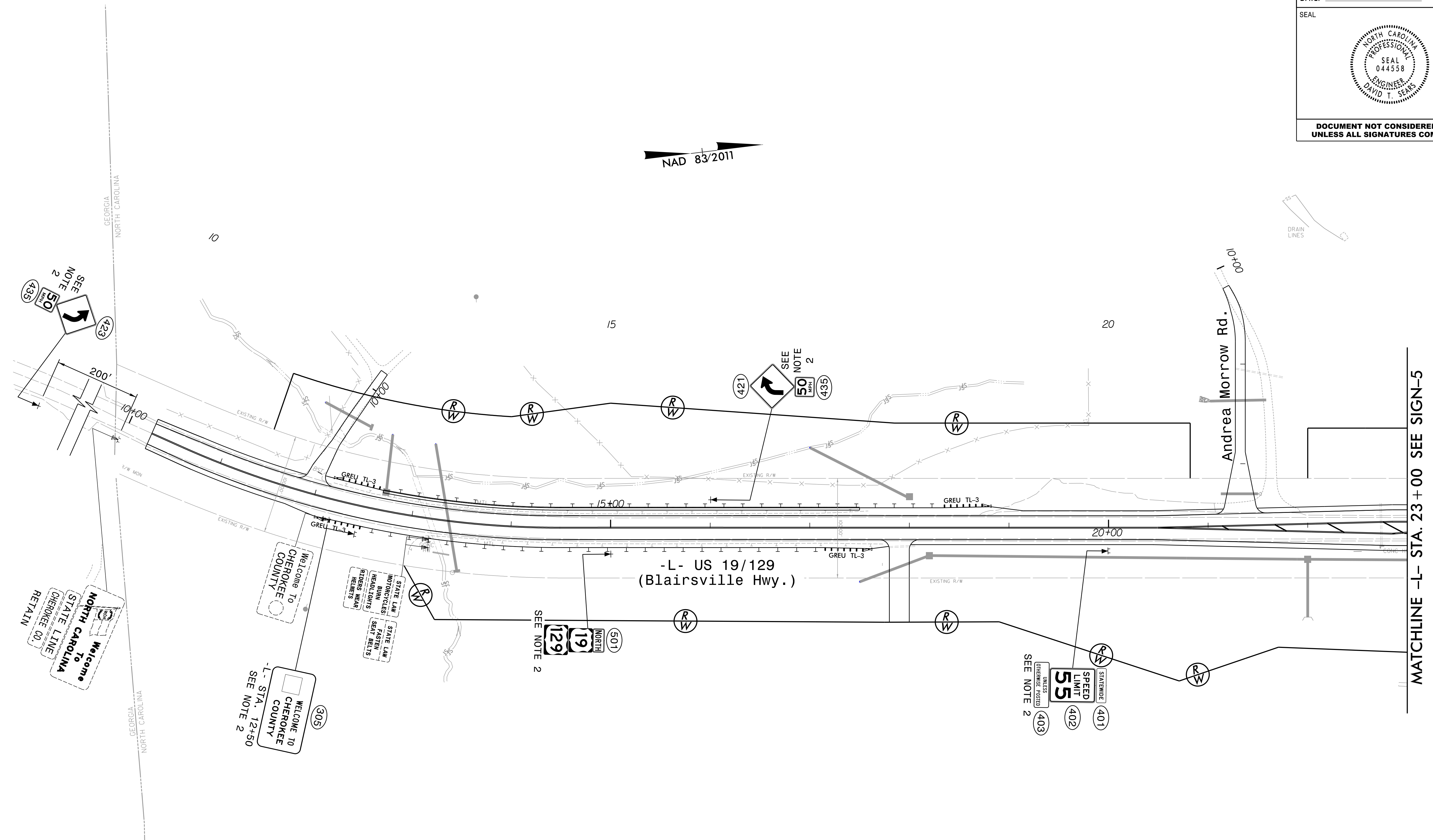
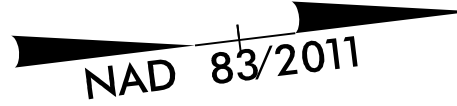
Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

	W	E	L	C	O	M	E	T	O		Series/Size	
23.1	4.5	3.4	3.1	3.7	3.9	4.4	2.5	5	3.2	3	6.1	C 2000
												36.8
22	5.2	5.3	4.8	4.9	5.3	5	4.8	3.8	5			E 2000
												39
26.6	5	5.4	5.4	4.9	4.1	5.1	9.6					E 2000
												29.9

FILENAME: R5861_SGN_Designs_NEW NORTH CAROLINA D.O.T. SIGN DETAIL



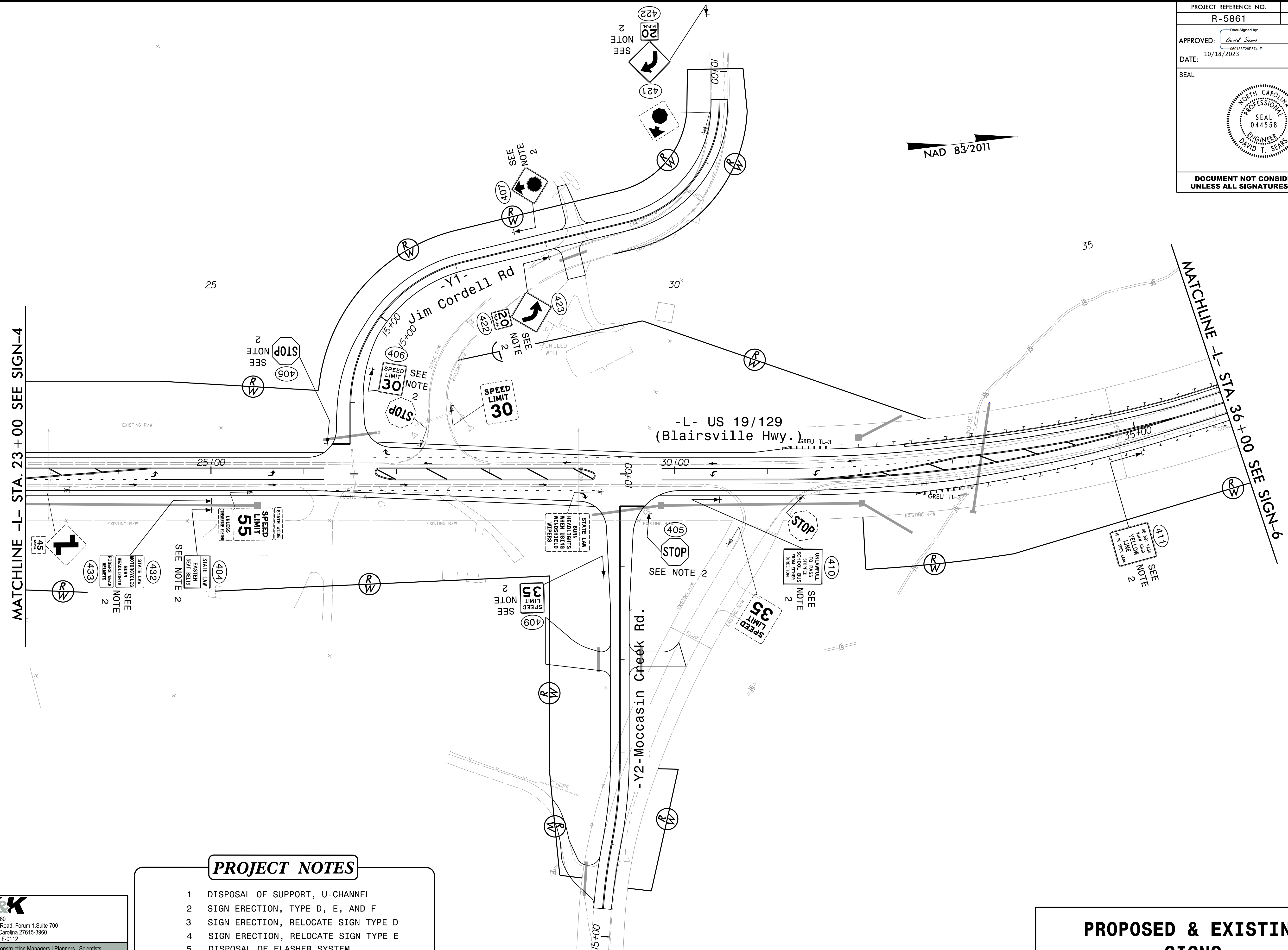
PROJECT NOTES

- 1 DISPOSAL OF SUPPORT, U-CHANNEL
- 2 SIGN ERECTION, TYPE D, E, AND F
- 3 SIGN ERECTION, RELOCATE SIGN TYPE D
- 4 SIGN ERECTION, RELOCATE SIGN TYPE E
- 5 DISPOSAL OF FLASHER SYSTEM

**PROPOSED & EXISTING
SIGNS**

RK&K
 P: (919) 878-9560
 8601 Six Forks Road, Forum 1, Suite 700
 Raleigh, North Carolina 27615-3960
 NC License No. F-0112
 Engineers | Construction Managers | Planners | Scientists
 www.rkk.com
 Responsive People | Creative Solutions

\$SYTIME\$
 \$DGN\$

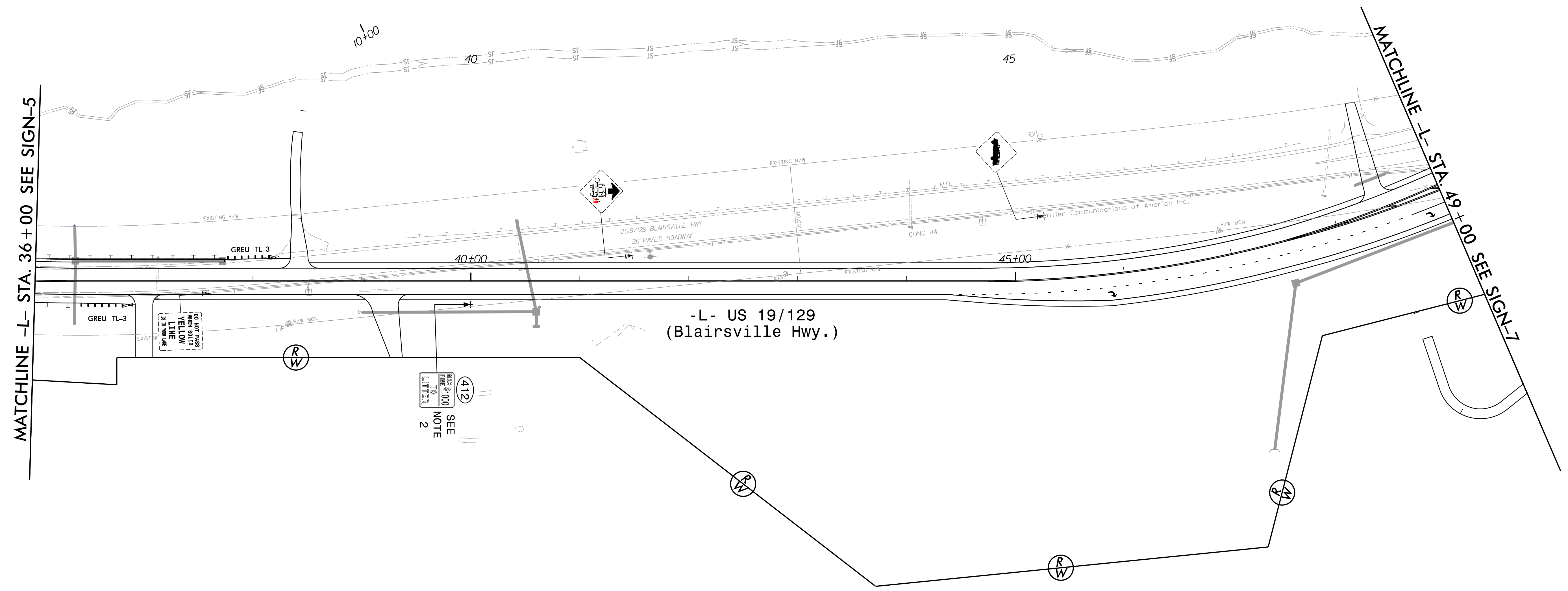
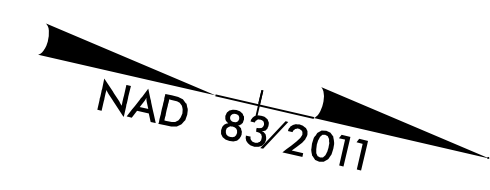


PROJECT NOTES

- 1 DISPOSAL OF SUPPORT, U-CHANNEL
- 2 SIGN ERECTION, TYPE D, E, AND F
- 3 SIGN ERECTION, RELOCATE SIGN TYPE D
- 4 SIGN ERECTION, RELOCATE SIGN TYPE E
- 5 DISPOSAL OF FLASHER SYSTEM

PROPOSED & EXISTING SIGNS

PROJECT REFERENCE NO. R-5861	SHEET NO. SIGN-6
APPROVED: <i>David Seas</i> 069183F28E5741E	
DATE: 10/18/2023	
SEAL	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



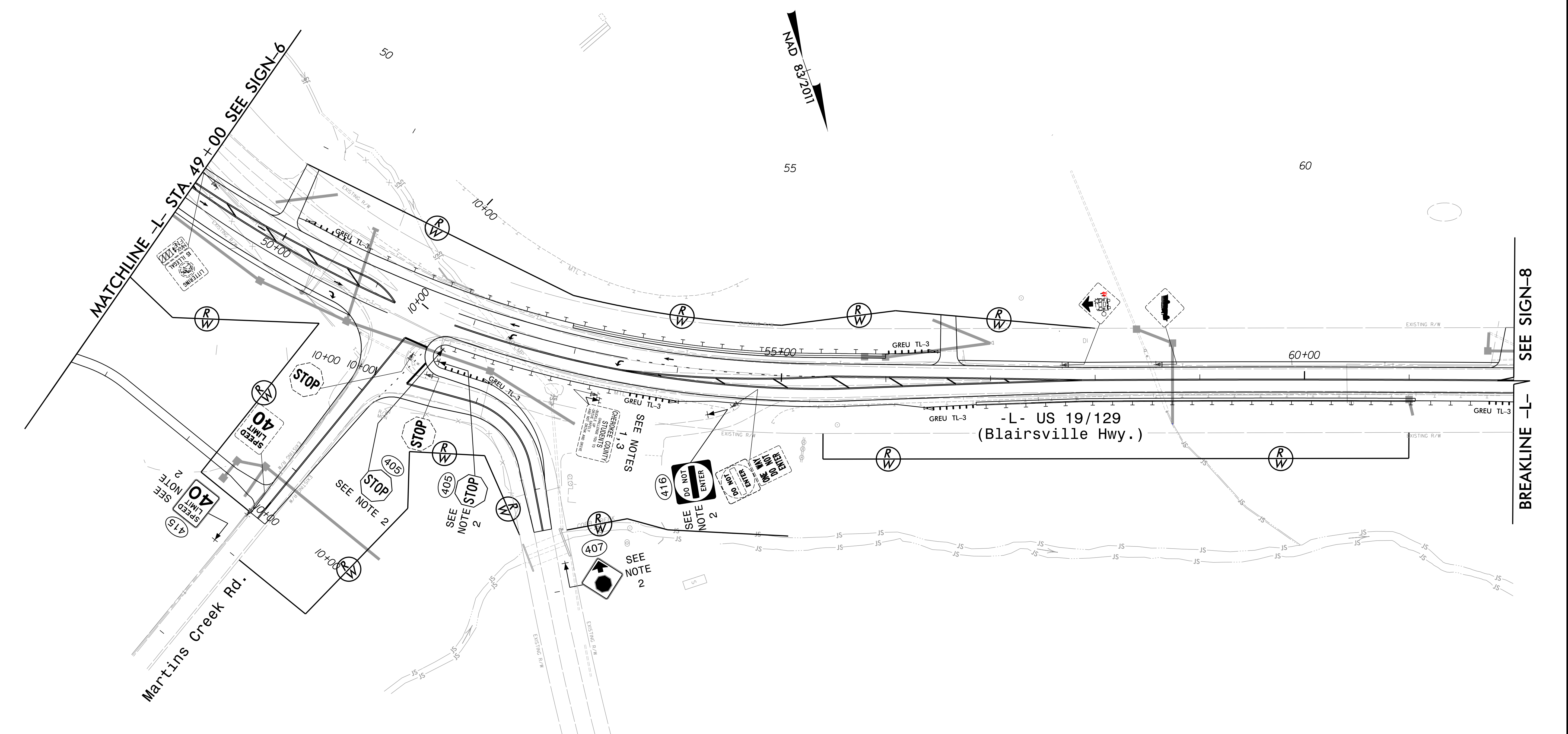
PROJECT NOTES

- 1 DISPOSAL OF SUPPORT, U-CHANNEL
- 2 SIGN ERECTION, TYPE D, E, AND F
- 3 SIGN ERECTION, RELOCATE SIGN TYPE D
- 4 SIGN ERECTION, RELOCATE SIGN TYPE E
- 5 DISPOSAL OF FLASHER SYSTEM

**PROPOSED & EXISTING
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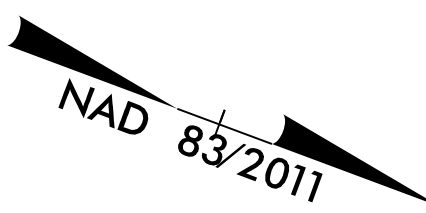
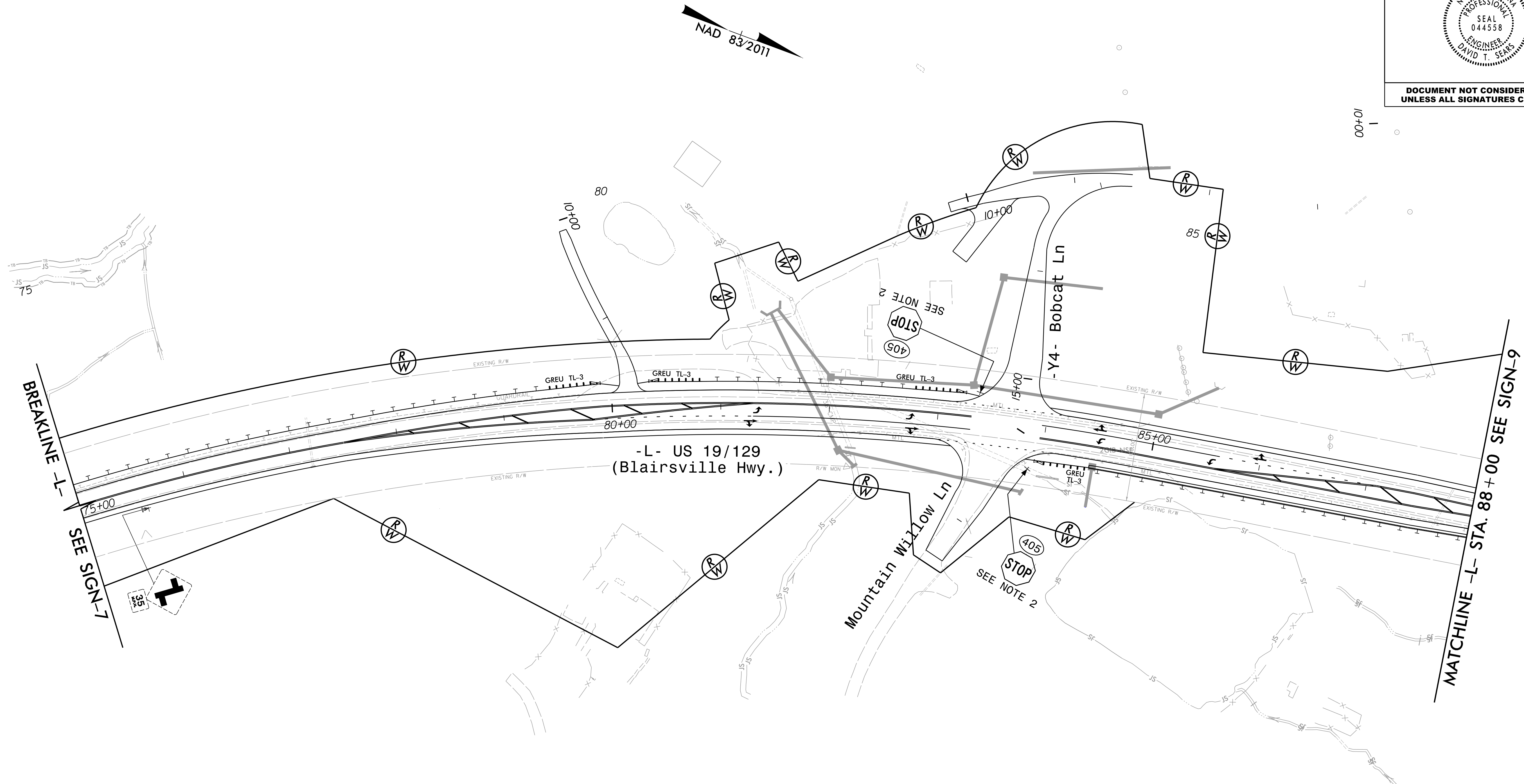
\$SYSTEM\$
 \$DGN\$



PROJECT NOTES

- 1 DISPOSAL OF SUPPORT, U-CHANNEL
- 2 SIGN ERECTION, TYPE D, E, AND F
- 3 SIGN ERECTION, RELOCATE SIGN TYPE D
- 4 SIGN ERECTION, RELOCATE SIGN TYPE E
- 5 DISPOSAL OF FLASHER SYSTEM

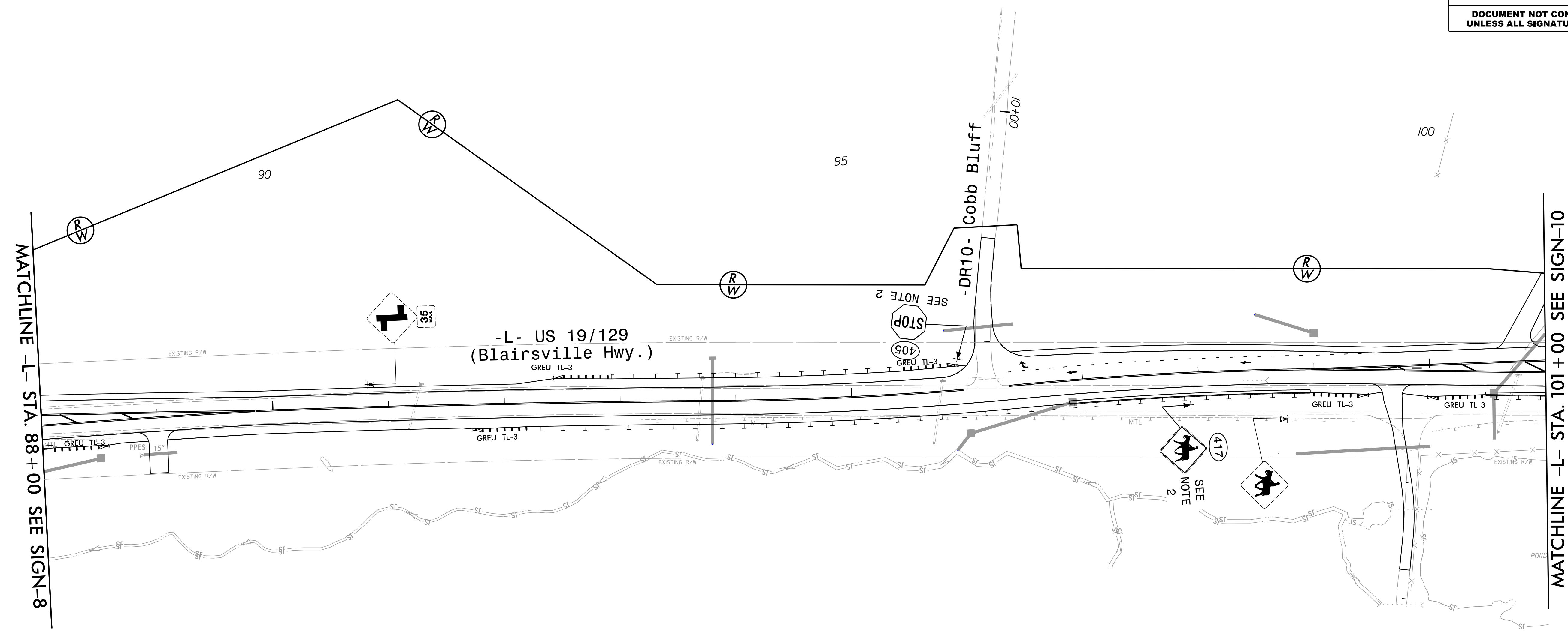
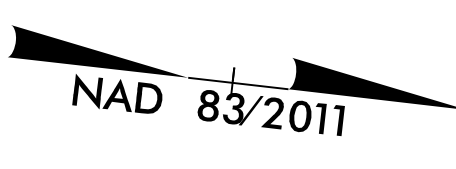
PROPOSED & EXISTING SIGNS



PROJECT NOTES

- 1 DISPOSAL OF SUPPORT, U-CHANNEL
- 2 SIGN ERECTION, TYPE D, E, AND F
- 3 SIGN ERECTION, RELOCATE SIGN TYPE D
- 4 SIGN ERECTION, RELOCATE SIGN TYPE E
- 5 DISPOSAL OF FLASHER SYSTEM

**PROPOSED & EXISTING
SIGNS**

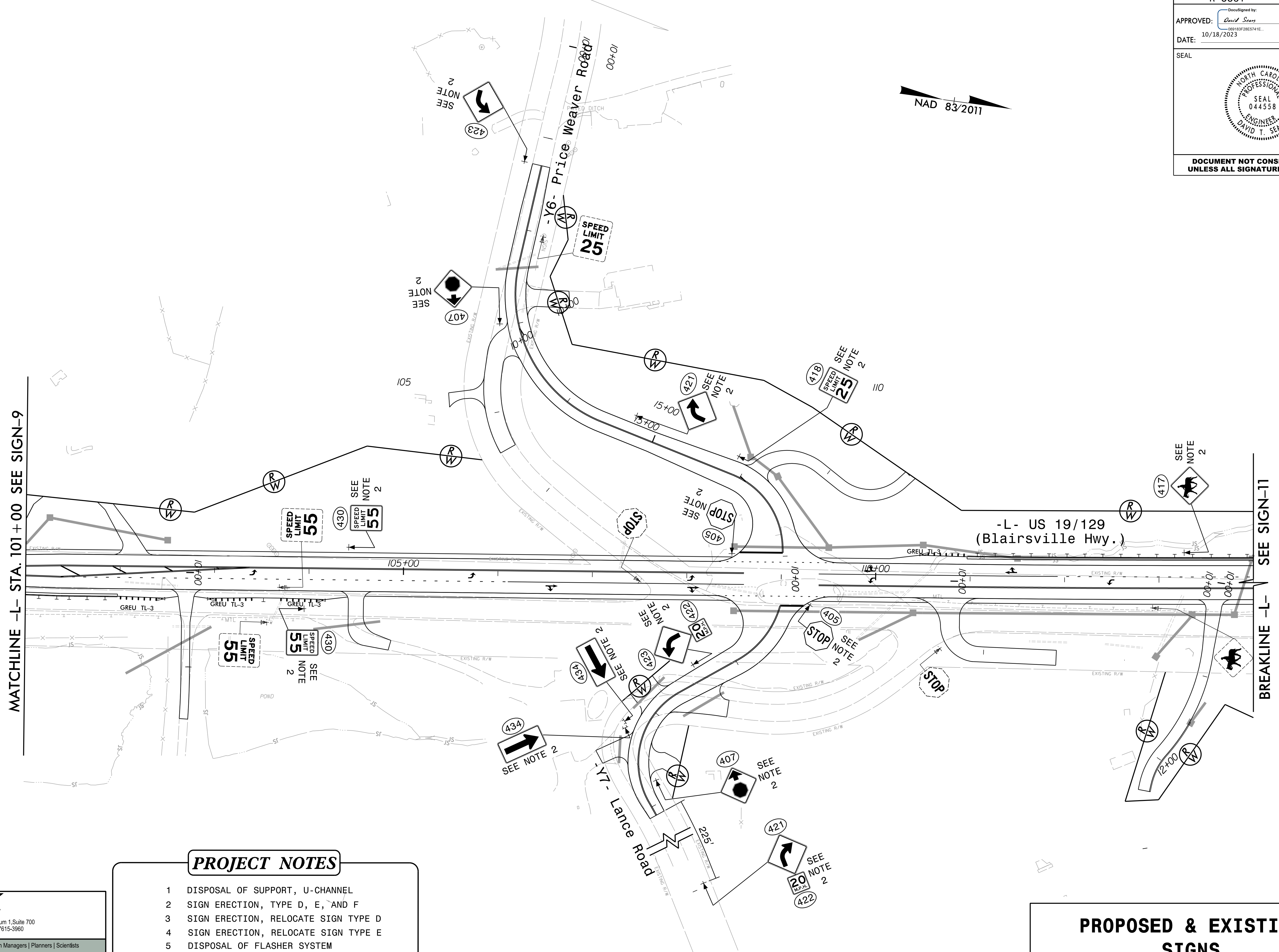


PROJECT NOTES

- 1 DISPOSAL OF SUPPORT, U-CHANNEL
- 2 SIGN ERECTION, TYPE D, E, AND F
- 3 SIGN ERECTION, RELOCATE SIGN TYPE D
- 4 SIGN ERECTION, RELOCATE SIGN TYPE E
- 5 DISPOSAL OF FLASHER SYSTEM

**PROPOSED & EXISTING
SIGNS**

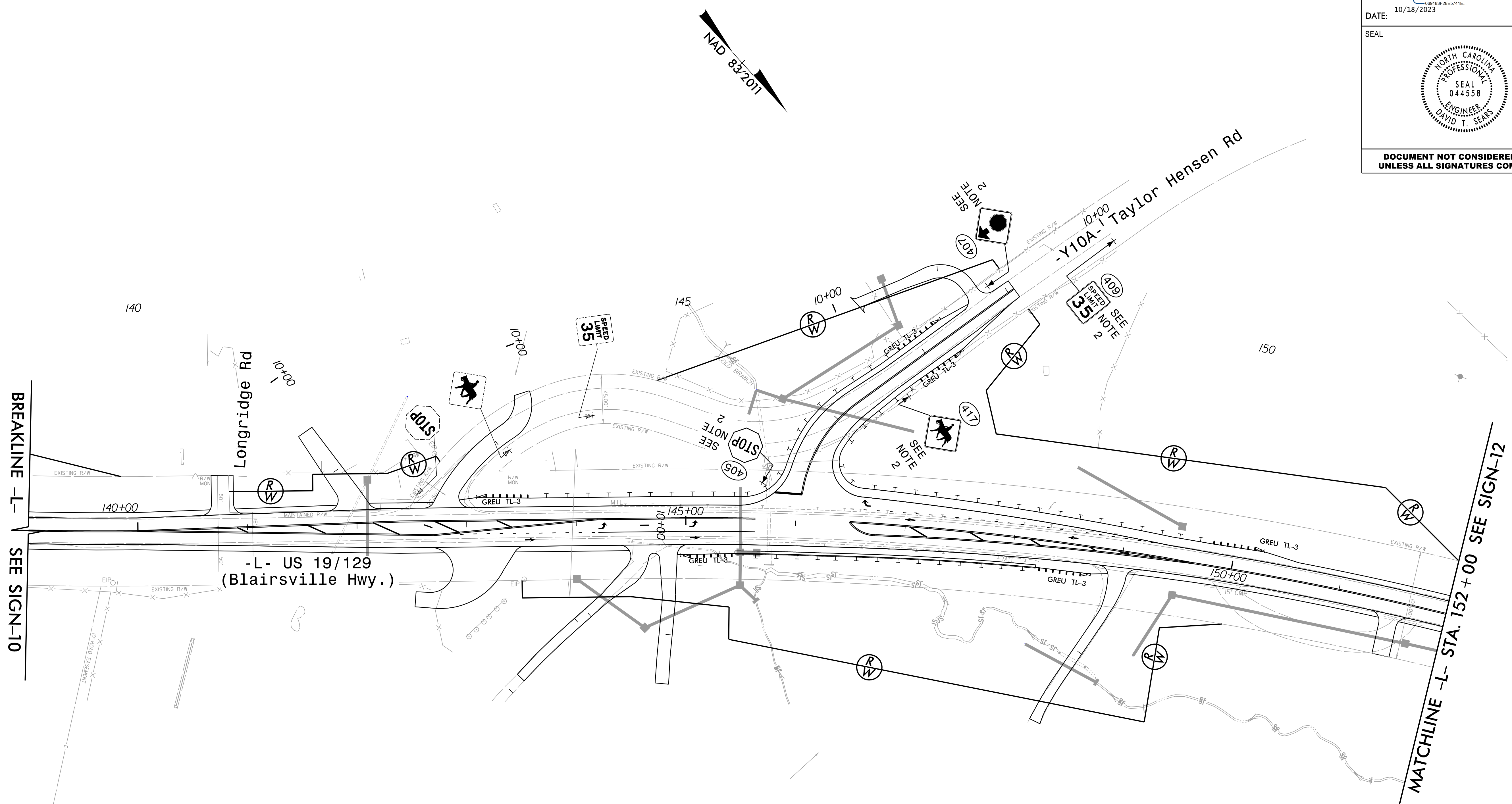
R SYSTEMS
R DGN



PROJECT NOTES

- 1 DISPOSAL OF SUPPORT, U-CHANNEL
- 2 SIGN ERECTION, TYPE D, E, AND F
- 3 SIGN ERECTION, RELOCATE SIGN TYPE D
- 4 SIGN ERECTION, RELOCATE SIGN TYPE E
- 5 DISPOSAL OF FLASHER SYSTEM

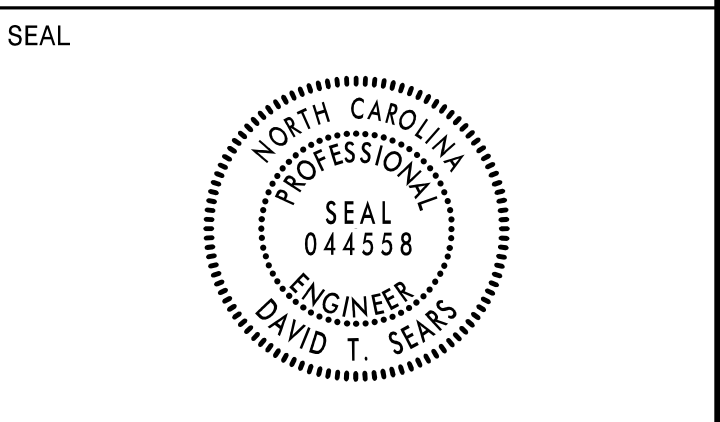
**PROPOSED & EXISTING
SIGNS**



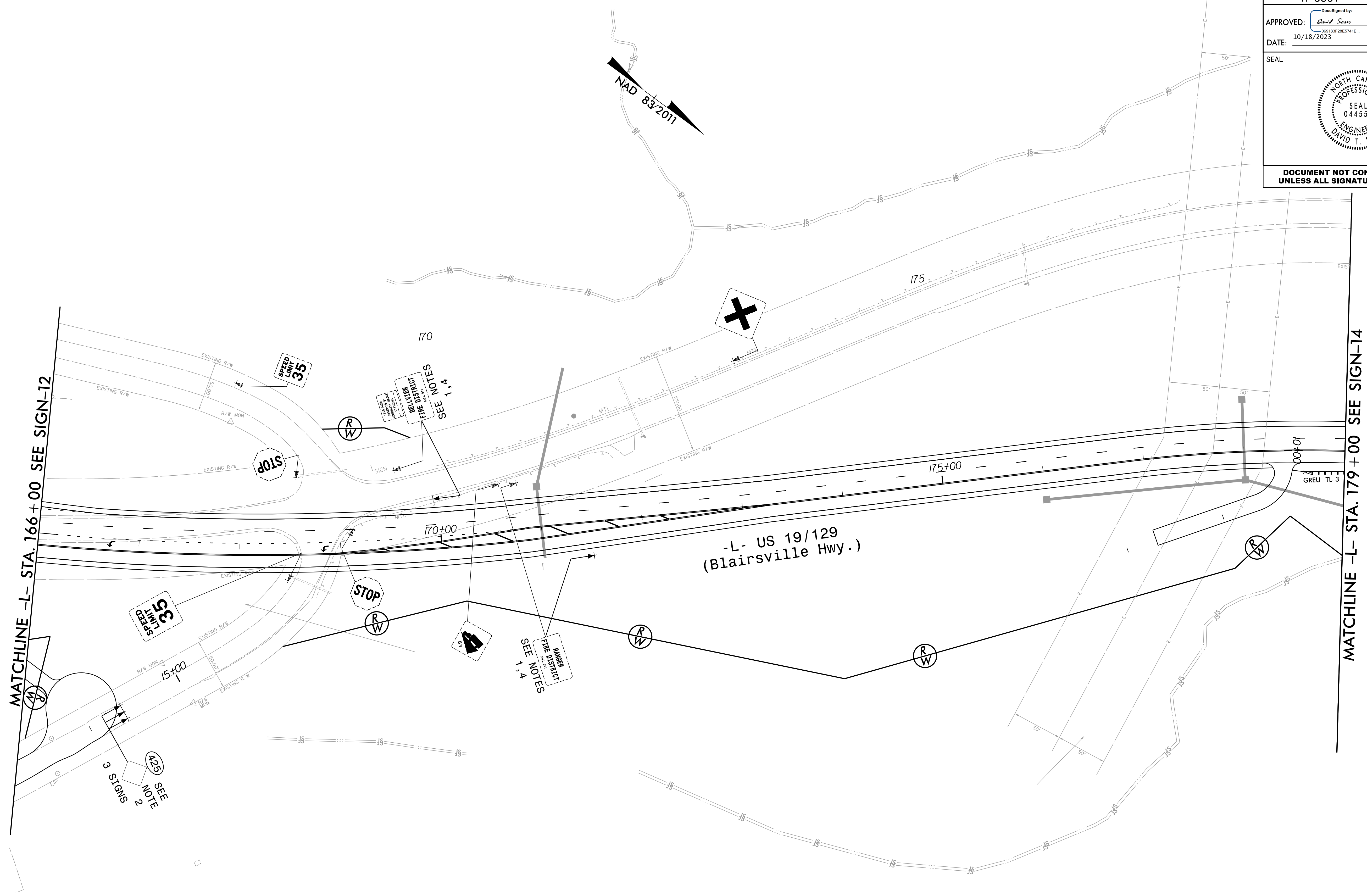
PROJECT NOTES

- 1 DISPOSAL OF SUPPORT, U-CHANNEL
- 2 SIGN ERECTION, TYPE D, E, AND F
- 3 SIGN ERECTION, RELOCATE SIGN TYPE D
- 4 SIGN ERECTION, RELOCATE SIGN TYPE E
- 5 DISPOSAL OF FLASHER SYSTEM

**PROPOSED & EXISTING
SIGNS**



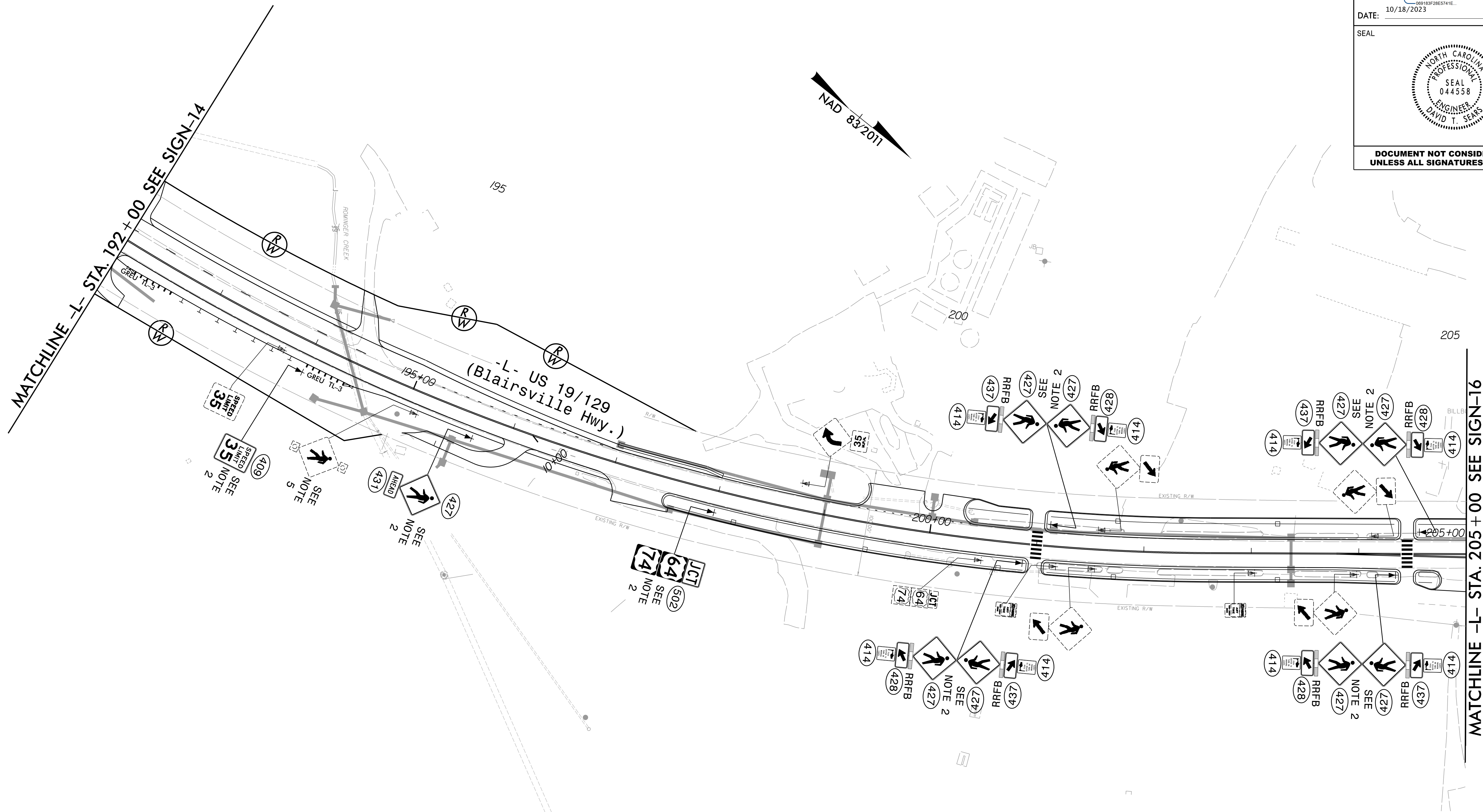
**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**



PROJECT NOTES

- 1 DISPOSAL OF SUPPORT, U-CHANNEL
- 2 SIGN ERECTION, TYPE D, E, AND F
- 3 SIGN ERECTION, RELOCATE SIGN TYPE D
- 4 SIGN ERECTION, RELOCATE SIGN TYPE E
- 5 DISPOSAL OF FLASHER SYSTEM

**PROPOSED & EXISTING
 SIGNS**

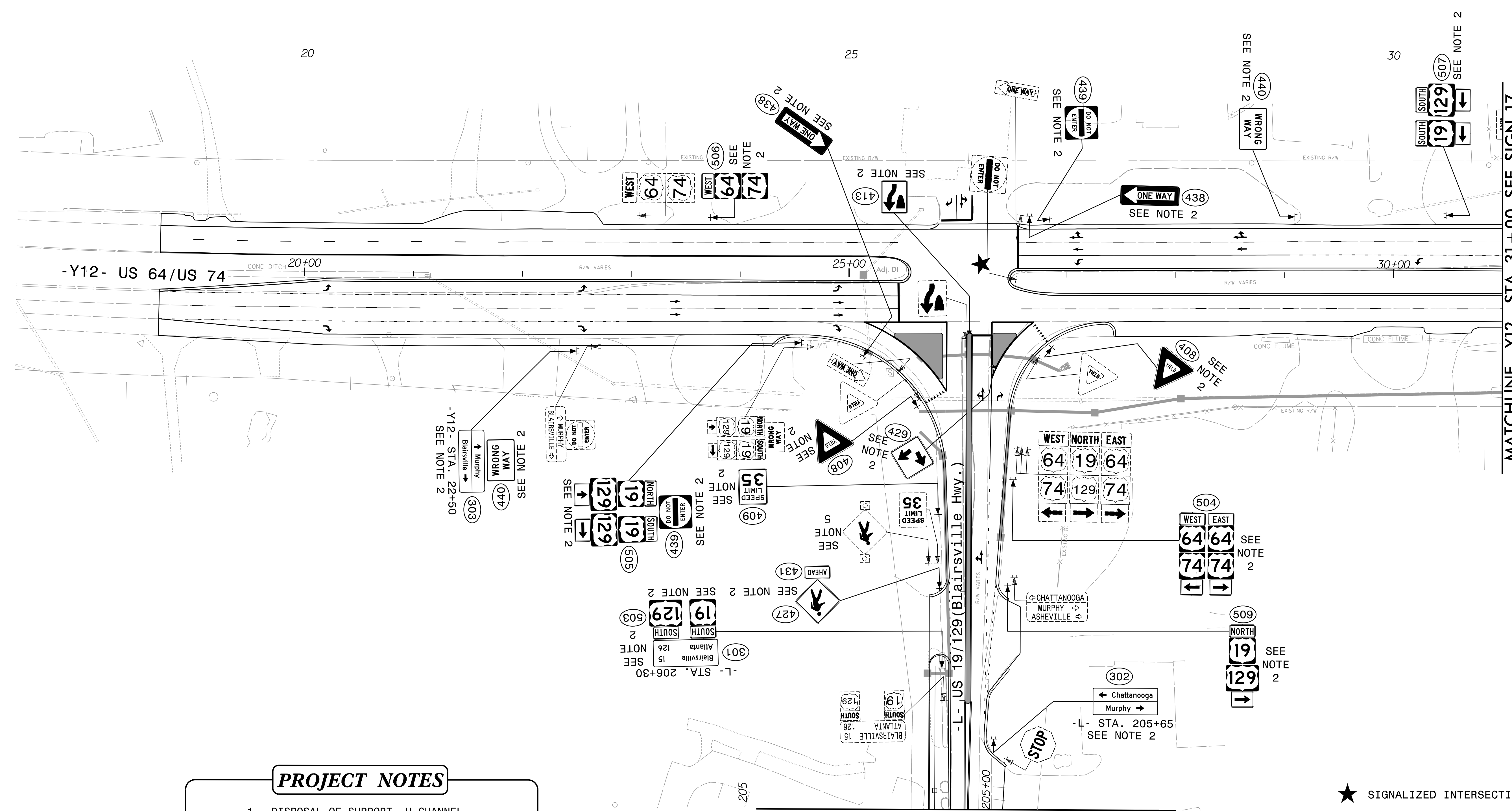
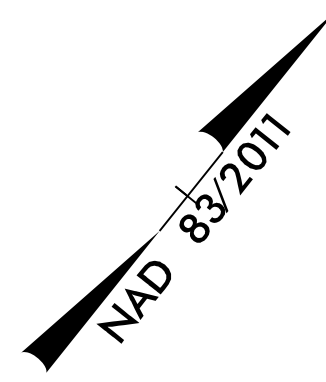


GENERAL NOTES
 SEE SPECIAL PROVISIONS FOR DETAILS ON THE RECTANGULAR RAPID FLASHING BEACON ASSEMBLIES.
 SEE SHEET SIGN-3 FOR PROPOSED SIGN DETAILS.

PROJECT NOTES

- 1 DISPOSAL OF SUPPORT, U-CHANNEL
- 2 SIGN ERECTION, TYPE D, E, AND F
- 3 SIGN ERECTION, RELOCATE SIGN TYPE D
- 4 SIGN ERECTION, RELOCATE SIGN TYPE E
- 5 DISPOSAL OF FLASHER SYSTEM

**PROPOSED & EXISTING
SIGNS**



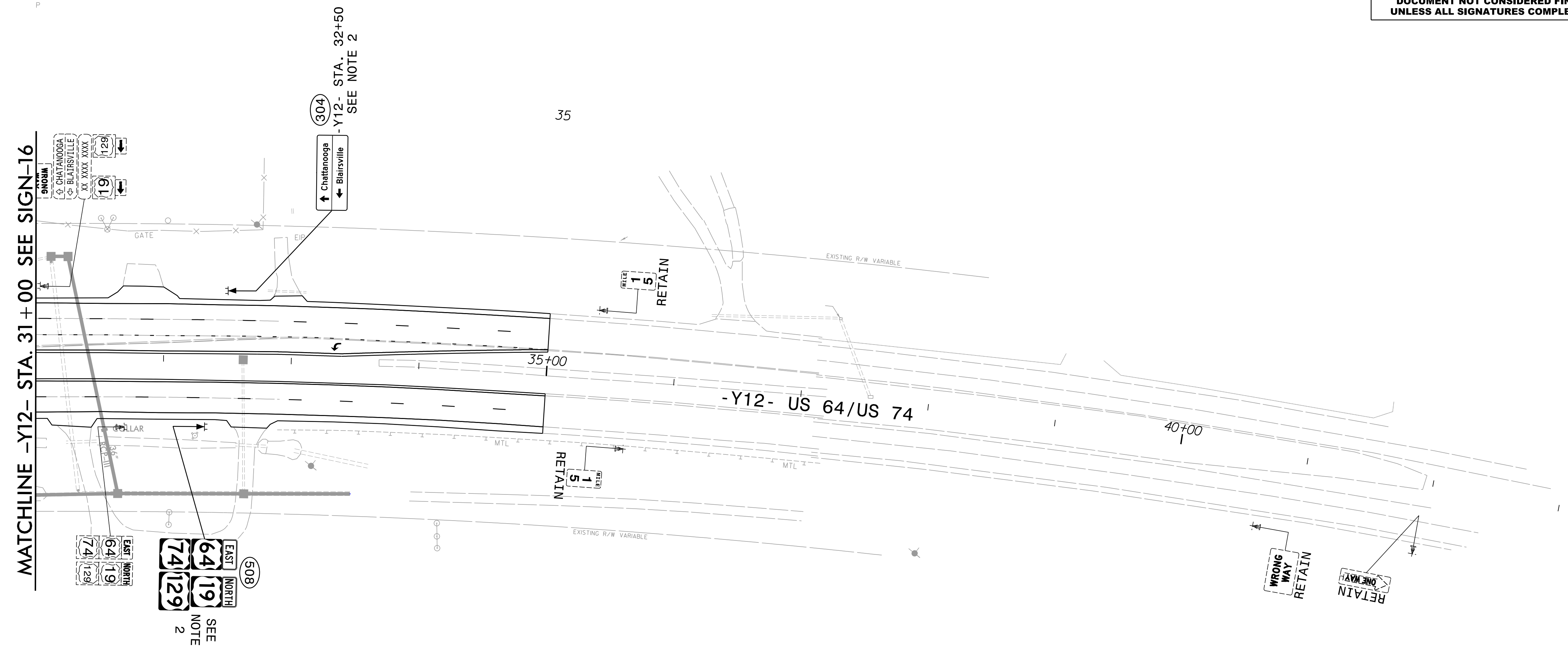
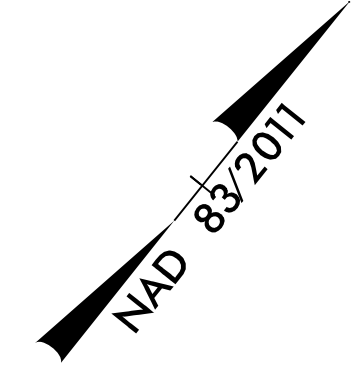
PROJECT NOTES

- 1 DISPOSAL OF SUPPORT, U-CHANNEL
- 2 SIGN ERECTION, TYPE D, E, AND F
- 3 SIGN ERECTION, RELOCATE SIGN TYPE D
- 4 SIGN ERECTION, RELOCATE SIGN TYPE E
- 5 DISPOSAL OF FLASHER SYSTEM

★ SIGNALIZED INTERSECTION

**PROPOSED & EXISTING
SIGNS**

SYSTEMS DESIGN



MATCHLINE -Y12- STA. 31+00 SEE SIGN-16

PROJECT NOTES

- 1 DISPOSAL OF SUPPORT, U-CHANNEL
- 2 SIGN ERECTION, TYPE D, E, AND F
- 3 SIGN ERECTION, RELOCATE SIGN TYPE D
- 4 SIGN ERECTION, RELOCATE SIGN TYPE E
- 5 DISPOSAL OF FLASHER SYSTEM

**PROPOSED & EXISTING
SIGNS**

R:\SYSTEMS\BUDGET