


# STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

## SIGNING PLAN GUILFORD COUNTY

LOCATION: US 29 AND SR 4771 (REEDY FORK PARKWAY) INTERCHANGE

TIP NO. R-4707	SHEET NO. SIGN-1
APPROVED: <u>David J. Sears</u> 4/16/2020	
DATE: 4/16/2020	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

TIP: R-4707

### ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - 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:

STD. NO.	TITLE
901.10	TYPE 'A' SIGNS
901.20	TYPE 'B' SIGNS
901.50	ARROWS AND SHIELDS
901.70	SIGN STRINGERS AND SUPPORT SPACING
901.80	SIGN MOUNTING DETAILS - FOR TYPE A AND TYPE B SIGNS
903.10	GROUND MOUNTED SIGN SUPPORTS
903.30	BARRIER SIGN SUPPORT ASSEMBLY
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.20	SECONDARY SIGN MOUNTING
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNING ON 'U' CHANNEL POSTS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNING ON 'U' CHANNEL POSTS
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

RFC SIGNING PLANS  
DATE: 4-16-2020

### GENERAL NOTES

- SIGNS FURNISHED BY STATE
- 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.
- DO NOT BEGIN FABRICATION FOR TYPES A & B SIGNS MOUNTED ON OVERHEAD STRUCTURES OR STEEL SUPPORTS UNTIL "S" DIMENSIONS HAVE BEEN FIELD VERIFIED.
- THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

### SUMMARY OF QUANTITIES

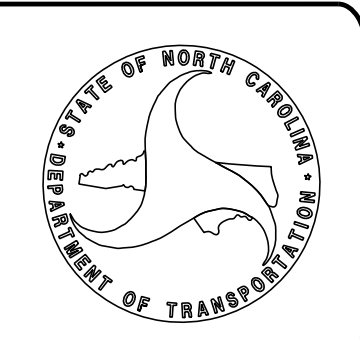
ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4048000000	902	REINFORCED CONCRETE SIGN FOUNDATION	3.00	C.Y.
4054000000	902	PLAIN CONCRETE SIGN FOUNDATION	1.00	C.Y.
4057000000	SP	OVERHEAD FOOTING	120	C.Y.
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAM	2,665	LB.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	1,730	L.F.
4078000000	903	SUPPORTS, 2 LB STEEL U-CHANNEL	4	EA.
4082100000	906	SUPPORTS, OVERHEAD SIGN STRUCTURE A AT -L- STA. 47+08	1	L.S.
4082100000	906	SUPPORTS, OVERHEAD SIGN STRUCTURE B AT -L- STA. 78+18	1	L.S.
4082100000	906	SUPPORTS, OVERHEAD SIGN STRUCTURE C AT -Y- STA. 33+50	1	L.S.
4082100000	906	SUPPORTS, OVERHEAD SIGN STRUCTURE D AT -Y- STA. 40+24	1	L.S.
4082100000	906	SUPPORTS, OVERHEAD SIGN STRUCTURE E AT -Y- STA. 42+44	1	L.S.
4082100000	906	SUPPORTS, OVERHEAD SIGN STRUCTURE F AT -Y- STA. 46+80	1	L.S.
4102000000	904	SIGN ERECTION, TYPE E	119	EA.
4108000000	904	SIGN ERECTION, TYPE F	4	EA.
4109000000	904	SIGN ERECTION, TYPE A (OVERHEAD)	1	EA.
4109000000	904	SIGN ERECTION, TYPE B (OVERHEAD)	1	EA.
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	6	EA.
4110000000	904	SIGN ERECTION, TYPE B (GROUND MOUNTED)	3	EA.
4114000000	904	SIGN ERECTION, MILEMARKERS	4	EA.
4152000000	907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	10	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	87	EA.
4234000000	907	DISPOSAL OF SIGN, A OR B (OVERHEAD)	1	EA.

### INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-1A	PLAN SHEET LAYOUT
SIGN-1B-1C	DETAILS TO BE USED IN LIEU OF 2018 STANDARD DETAILS
SIGN-2	SUPPORT INFORMATION
SIGN-3-3A	E AND F SIGNS, MILEMARKERS
SIGN-4-4J	SIGN DESIGNS AND OVERHEAD DETAILS
SIGN-5-18	SIGNING PLAN SHEETS

#### PLAN SUBMITTED TO:

Kelvin L. Jordan Signing and Delineation Regional Engineer  
Ashley K. Matthews, P.E. Signing and Delineation Design Engineer




#### PLAN PREPARED BY:

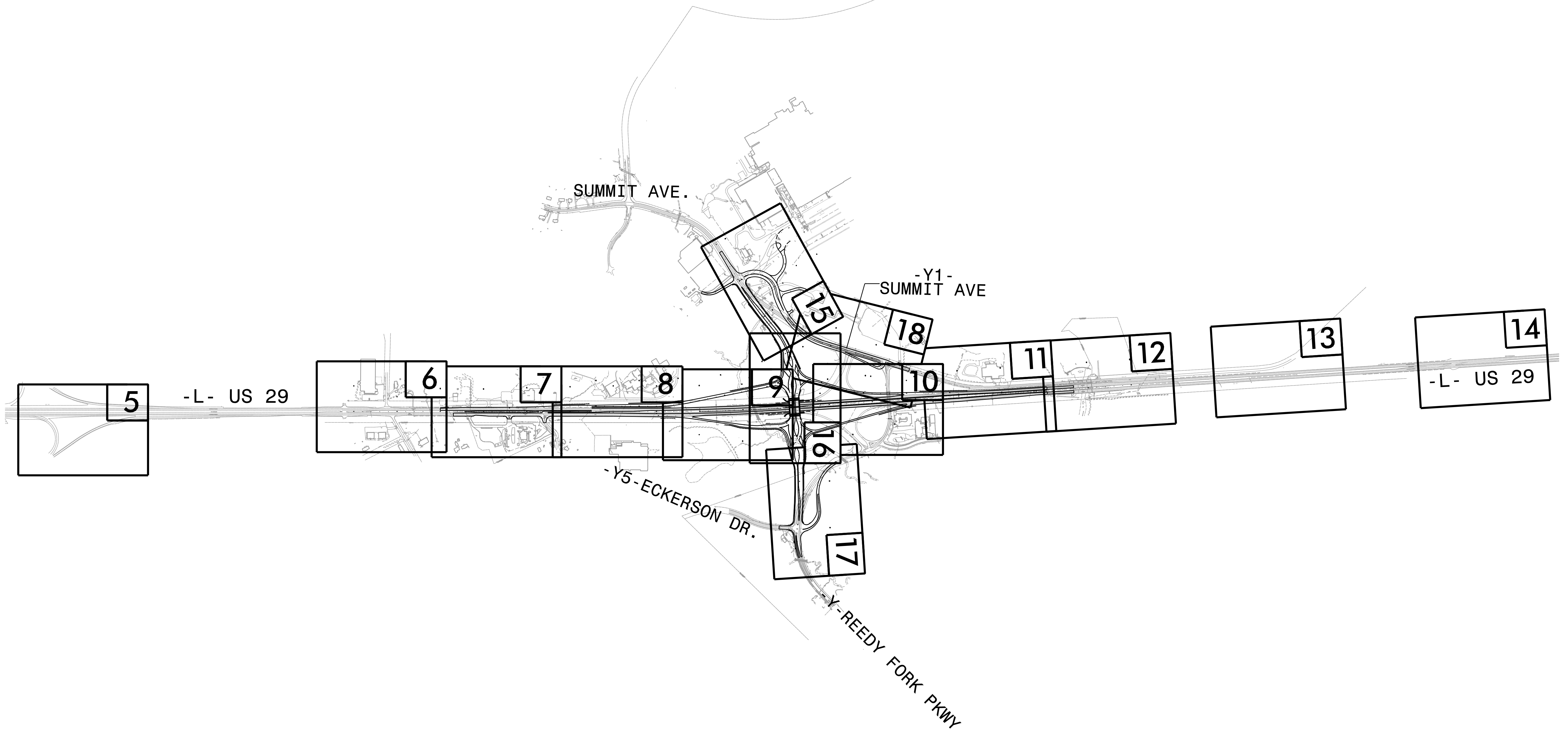
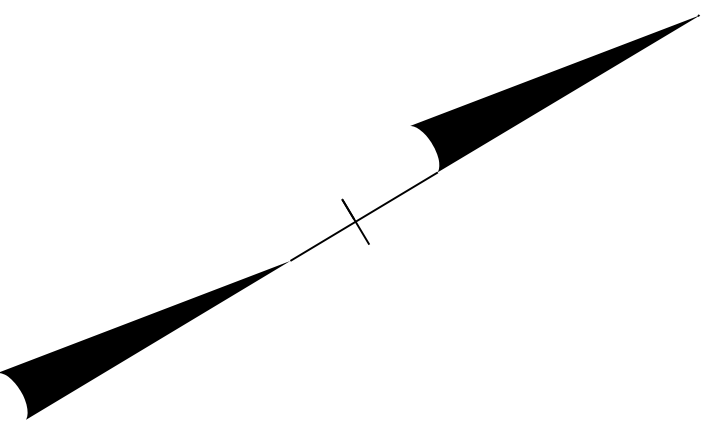
Allen Tutt Senior Designer  
David Sears, PE, PTOE Project Engineer



P: (919) 878-9560  
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CONTRACT:


PROJECT REFERENCE NO. R-4707	SHEET NO. SIGN-1A
APPROVED: <i>David T. Sears</i> DATE: 4/16/2020	
SEAL 	
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**PLAN SHEET LAYOUT**

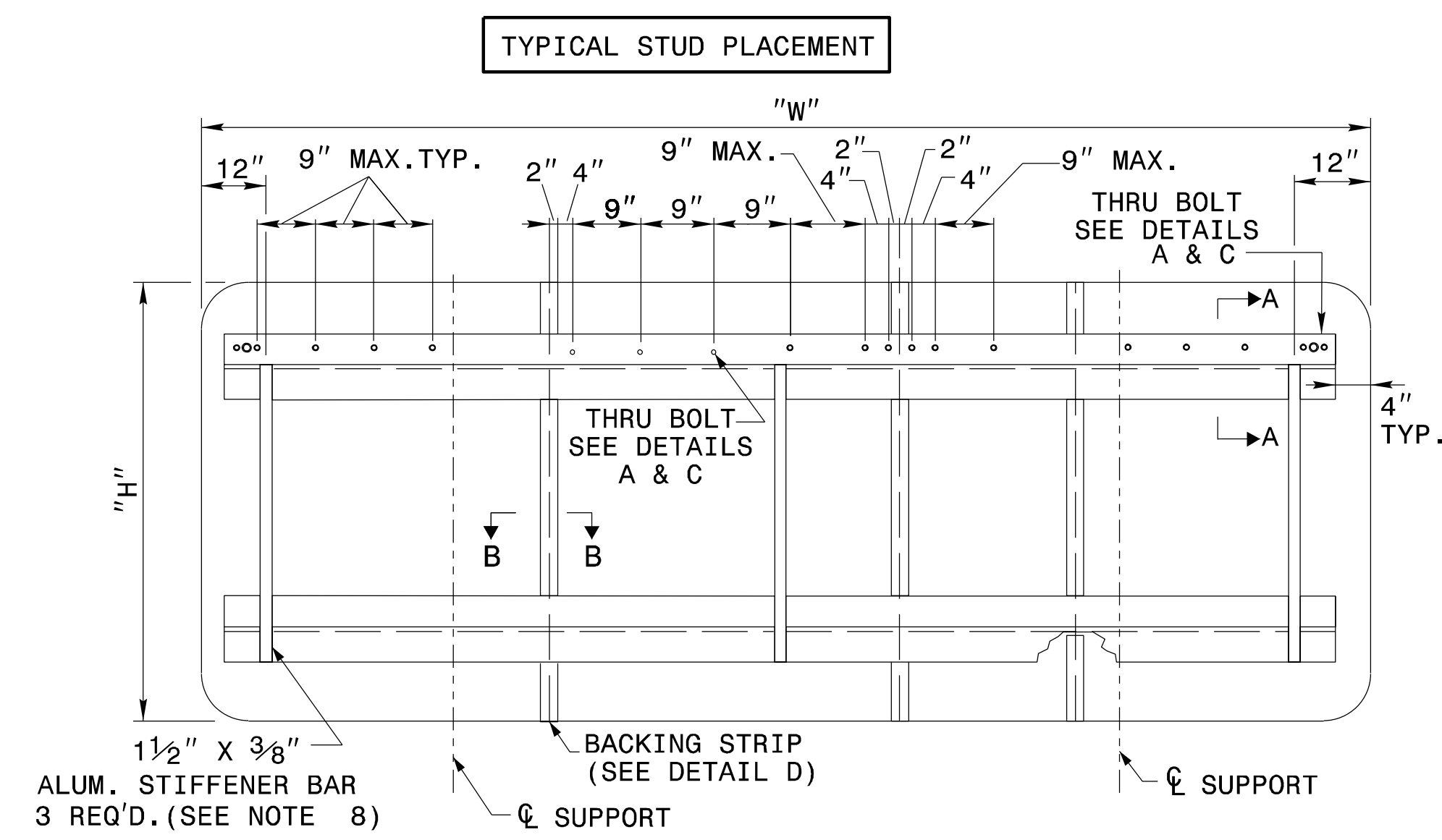


TIP NO. R-4707	SHEET NO. SIGN 1-1B
APPROVED: 3/21/2019 DATE:	<i>Matthew V. Springer</i> BC80F6E8B584403...
SEAL	
	

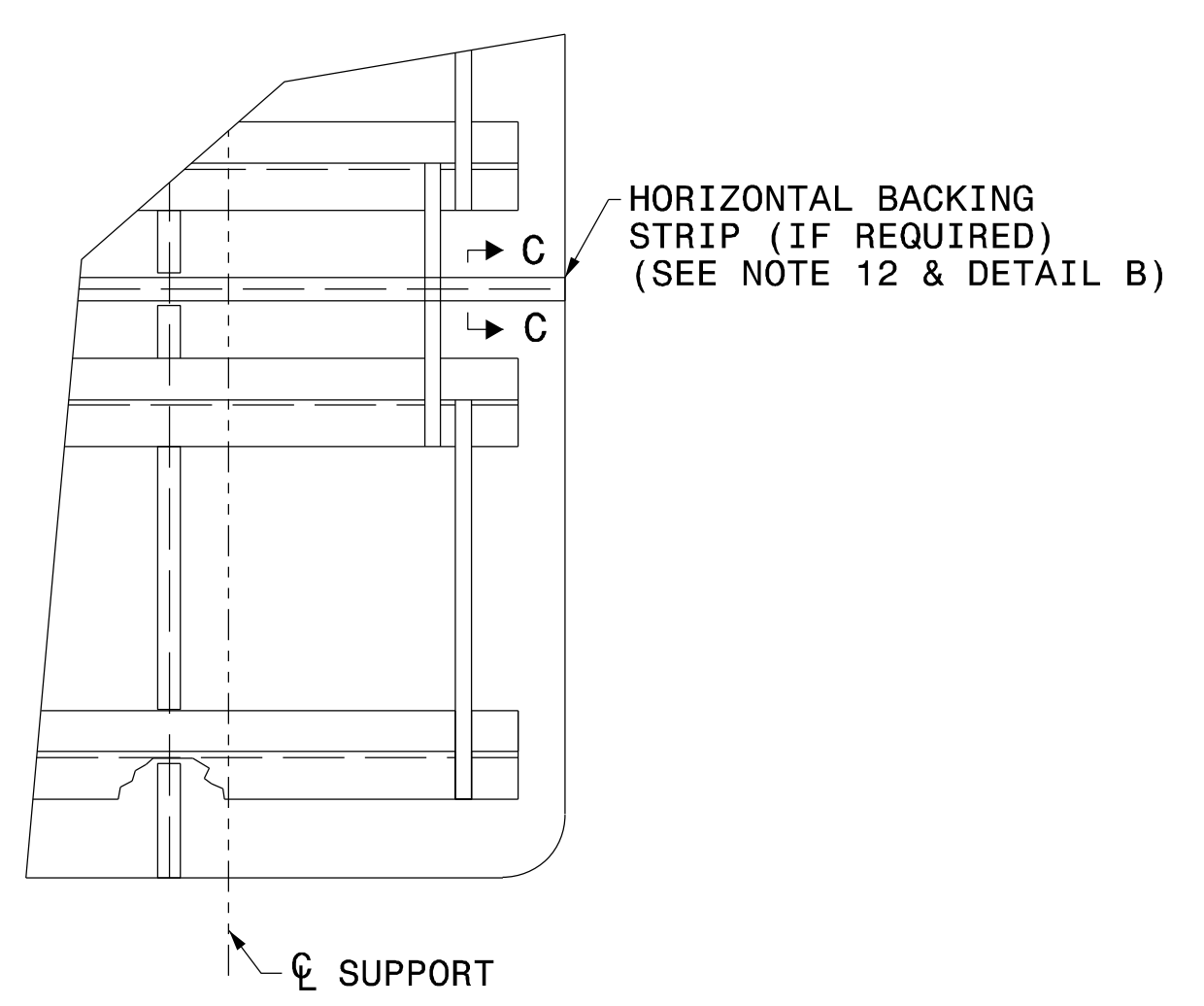
STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

2-19

ENGLISH DETAIL DRAWING FOR  
**TYPE 'A' SIGNS**  
 WELDED STUD CONSTRUCTION



HORIZONTAL BACKING STRIP



NOTES:

1. USE THE NUMBER AND SIZE OF SUPPORTS SHOWN ON THE SUPPORT CHART IN PROJECT PLANS.
2. FABRICATE SIGN PANEL SECTIONS WITH SHEETS 4'-0" WIDE. WHEN FABRICATING SIGNS WHICH ARE NOT MULTIPLES OF 4'-0" IN WIDTH, DO NOT CUT MORE THAN TWO SHEETS TO LESS THAN 4'-0" IN WIDTH. THESE PANELS SHALL NOT BE LESS THAN 1'-0" IN WIDTH.
3. SEE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, FOR TYPE OF MATERIAL TO BE USED FOR SIGN PANELS, HANGER ASSEMBLIES, AND SUPPORTS.
4. USE GALVANIZED STEEL FOR BACKING PLATES AND MOUNTING BOLTS.
5. SEE ROADWAY STANDARD 904.20 WHEN TYPE "B" SECONDARY SIGN MOUNTING IS REQUIRED.
6. DETAILS FOR TYPE "A" SECONDARY SIGNS SHALL BE THE SAME AS FOR TYPE "A" SIGNS.
7. THE VERTICAL DIMENSION BETWEEN PRIMARY AND SECONDARY SIGNS IS TWO (2) INCHES.
8. ADJUST STIFFENERS TO AVOID CONFLICT WITH SUPPORTS.
9. SEE ROADWAY STANDARD 901.70 FOR SUPPORT AND "Z" BAR SPACING.
10. FABRICATE SIGNS TALLER THAN 12'-0" AS TWO SEPARATE SIGNS WITH A HORIZONTAL SPLICE. LOCATE STRINGERS ON EACH SECTION OF THE SIGN BY THE SIGN STRINGER CHART. (SEE ROADWAY STANDARD 901.70)
11. FABRICATE SIGNS TALLER THAN 12'-0" BUT SHORTER THAN 14'-6" WITH A HORIZONTAL SPLICE LOCATED 7'-0" FROM BOTTOM OF SIGN.
12. FABRICATE SIGNS 14'-6" TALL AND TALLER WITH A HORIZONTAL SPLICE. LOCATE THE SPLICE AT LEAST HALF OF THE SIGN HEIGHT FROM THE BOTTOM AND AT LEAST 7'-0" FROM THE TOP.
13. THERE SHALL ONLY BE A 1/8" GAP BETWEEN THE VERTICAL BACKING STRIP AND THE "Z" BAR.
14. SEE ROADWAY STANDARD 901.80 FOR DETAILS SHOWING SIGN MOUNTING TO SUPPORTS.
15. PLACE NYLON WASHER UNDER HEAD OF 3/8" THRU BOLTS.
16. FABRICATE EACH SIGN WITH 3/8" DIA. THRU BOLT, 4" FROM EACH END OF EACH "Z" BAR THRU SIGN PANEL AND "Z" BAR. SEE DETAILS A & C.
17. FABRICATE EACH SIGN WITH 3/8" DIA. THRU BOLT CENTERED IN EACH PANEL THRU THE TOP AND BOTTOM "Z" BAR. CENTERED THRU BOLT REQUIRED IN END PANELS GREATER THAN 2'-0" WIDE. SEE DETAILS A & C.
18. THRU BOLTS WILL HAVE A MINIMUM 1/16" TO MAXIMUM 1/8" GAP

STATE OF NORTH CAROLINA  
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ENGLISH DETAIL DRAWING FOR  
**TYPE 'A' SIGNS**  
 WELDED STUD CONSTRUCTION

SHEET 1 OF 2

901D10

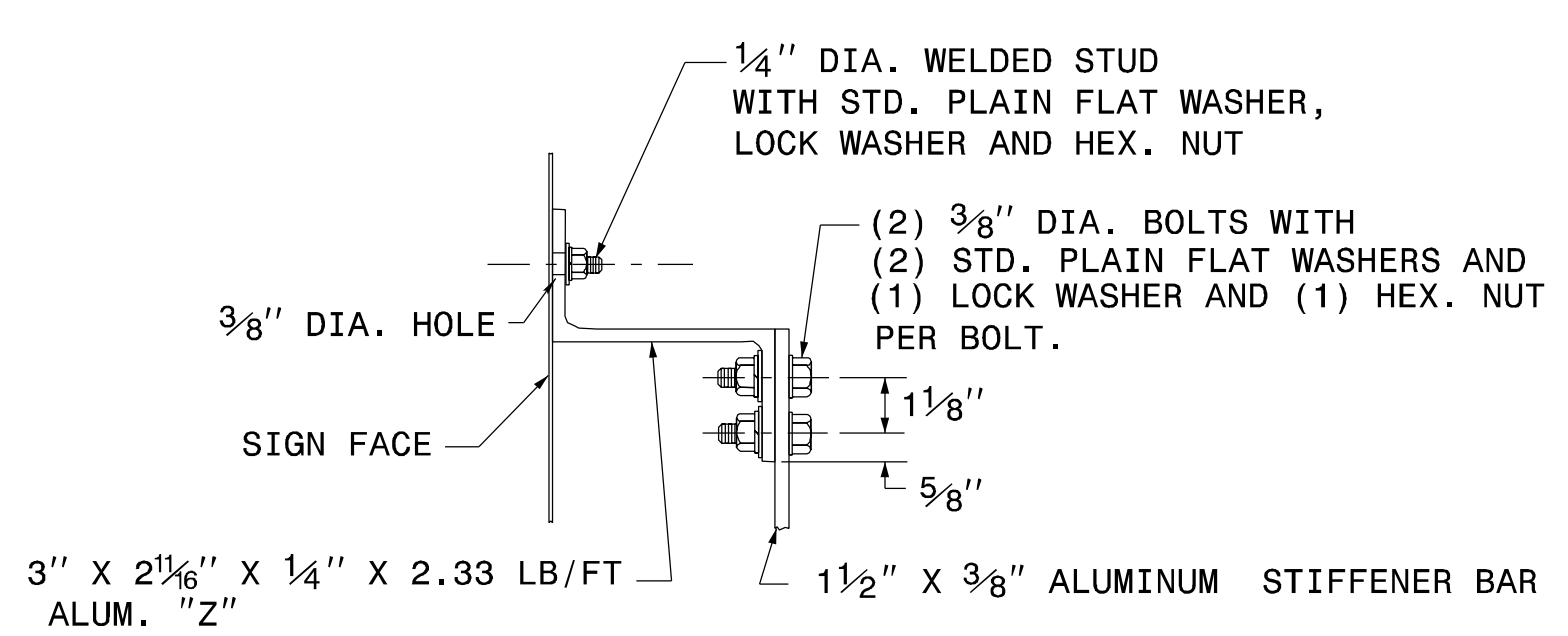
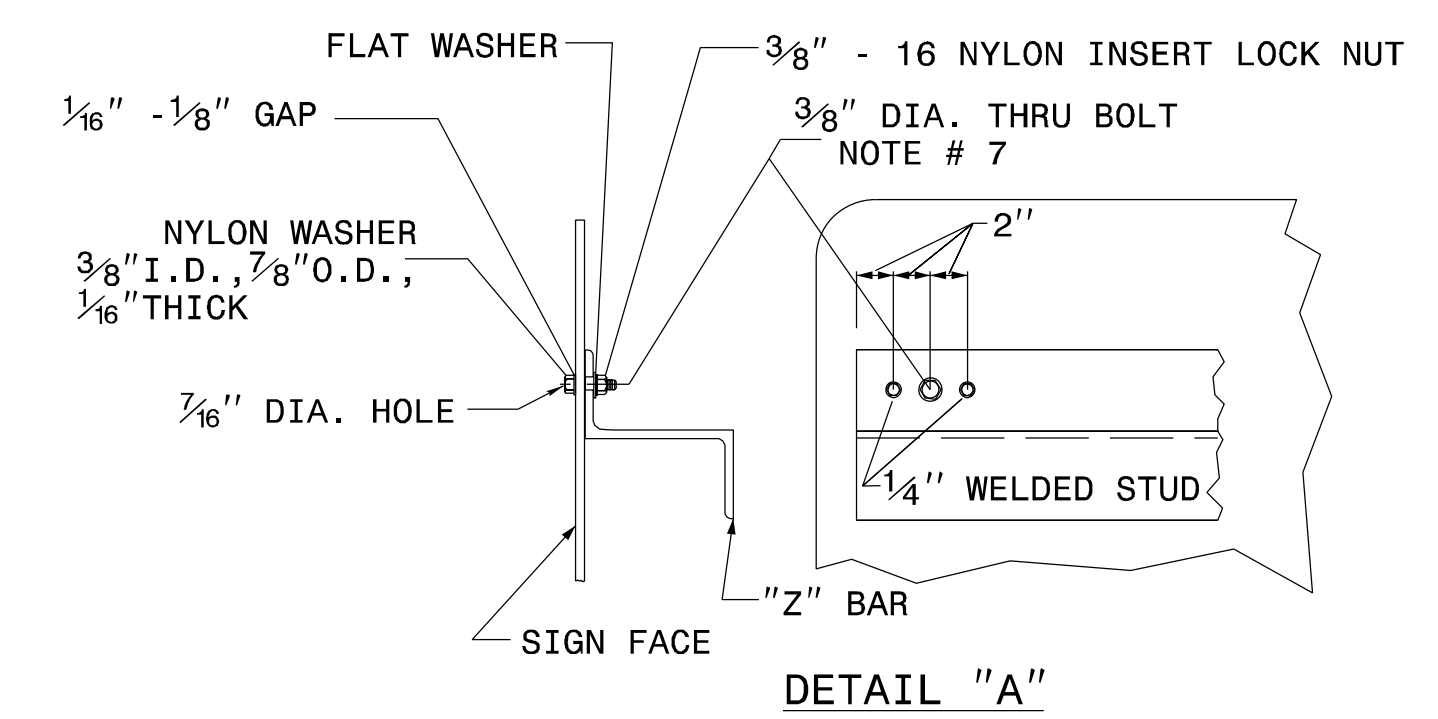
**REVISED SIGNING**  
**ROADWAY STANDARD DRAWING**

TIP NO.	SHEET NO.
R-4707-DocuSign	1-1C
APPROVED:	<i>Matthew V. Springer</i>
DATE:	3/21/2019
SEAL	BC80F8E8B584403...

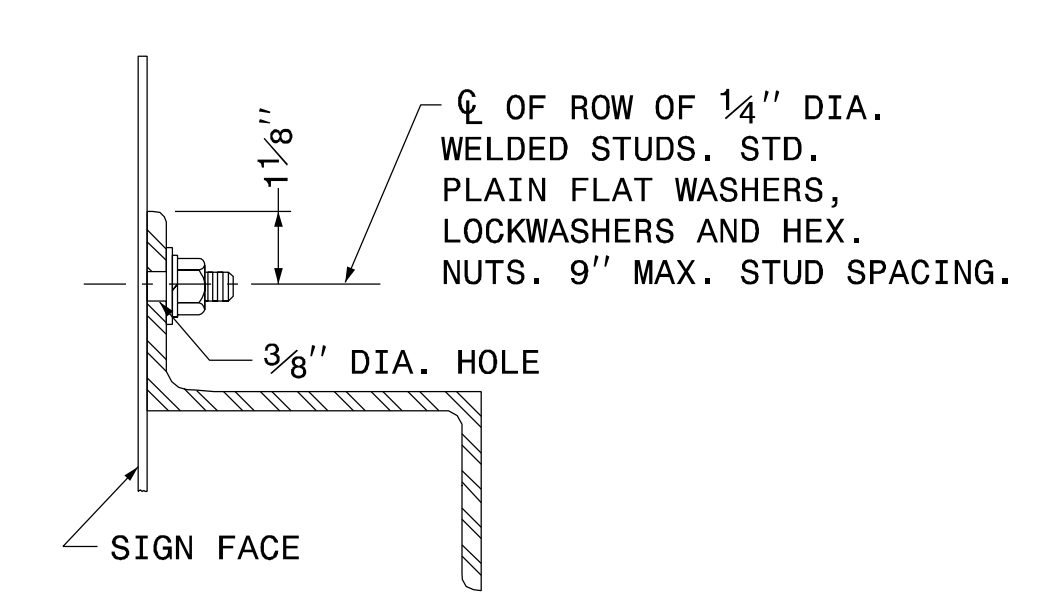
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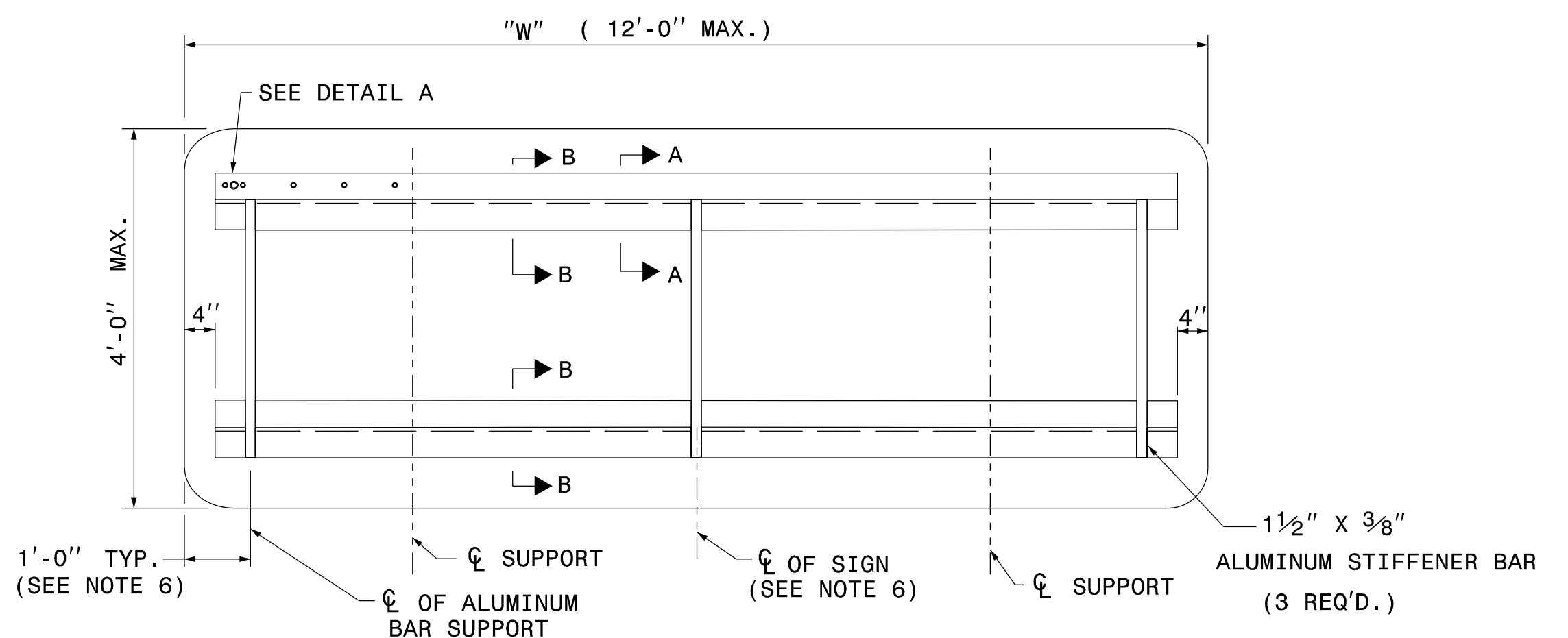
ENGLISH DETAIL DRAWING FOR  
**TYPE 'B' SIGNS**  
WELDED STUD CONSTRUCTION



SECTION A-A  
STIFFENER DETAIL



SECTION B-B



- NOTES:
1. USE NUMBER AND SIZE OF SUPPORTS SHOWN ON SUPPORT CHART IN PROJECT PLAN SHEETS.
  2. SEE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES FOR THE TYPE OF MATERIAL TO BE USED FOR SIGN PANELS, HANGER ASSEMBLIES AND SUPPORTS.
  3. FURNISH ALL MOUNTING HARDWARE.
  4. USE GALVANIZED STEEL FOR BACKING PLATES AND MOUNTING BOLTS.
  5. THE VERTICAL DIMENSION BETWEEN PRIMARY AND SECONDARY SIGNS IS TWO (2) INCHES.
  6. ADJUST STIFFENERS TO AVOID CONFLICT WITH SUPPORTS.
  7. FABRICATE EACH SIGN WITH A 3/8" DIA. BOLT 4" FROM EACH END OF EACH "Z" BAR THRU SIGN PANEL AND "Z" BAR.
  8. SEE ROADWAY STANDARD 901.70 FOR SUPPORT AND "Z" BAR SPACING.
  9. SEE ROADWAY STANDARD 901.80 FOR DETAILS SHOWING SIGN MOUNTING TO SUPPORTS.
  10. PLACE NYLON WASHER UNDER HEAD OF 3/8" THRU BOLT.
  11. THRU BOLTS WILL HAVE A MINIMUM 1/16" TO MAXIMUM 1/8" GAP.

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2-19


ENGLISH DETAIL DRAWING FOR  
**TYPE 'B' SIGNS**  
WELDED STUD CONSTRUCTION

SHEET 1 OF 1  
**901D20**

SHEET 1 OF 1  
**901D20**

**REVISED SIGNING  
ROADWAY STANDARD DRAWING**



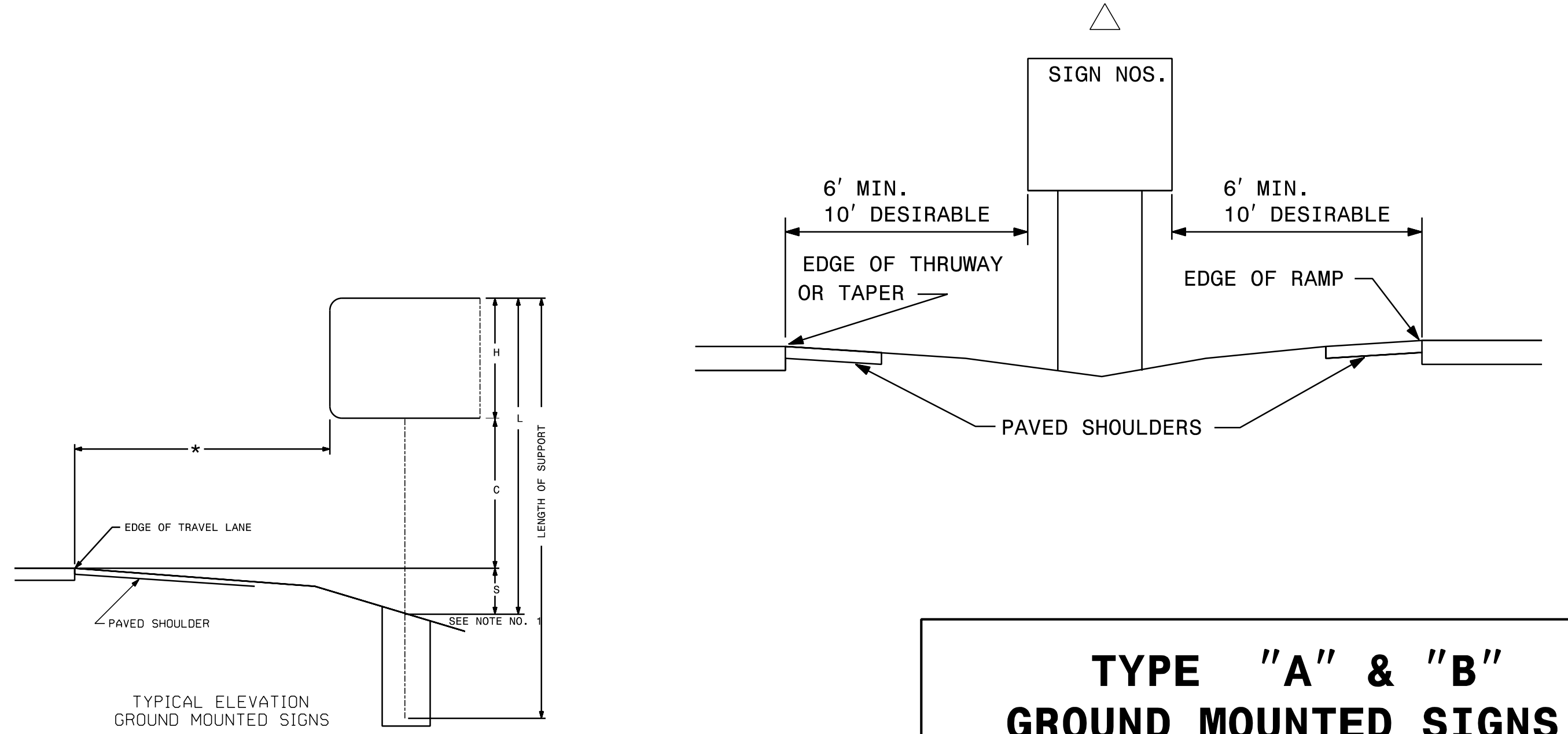
PROJECT REFERENCE NO. R-4707	SHEET NO. SIGN-2
APPROVED: <i>David T. Sears</i> DATE: 4/16/2020	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

Version: 3.1 Posted: 6/2/2017

NUMBER	SIGN TYPE	SIGN SIZE (in.)			ROADWAY STATION	NUMBER OF SUPPORTS	BEAM SECTION	SUPPORT TYPE BA or S	OMNI COUPLER	ATTACHMENT METHOD	MOUNTING METHOD	HORIZONTAL CLEARANCE* (ft.)	SUPPORT SPACING	LENGTH (ft)			LEFT SUPPORT (ft)			CENTER SUPPORT (ft)			RIGHT SUPPORT (ft)			SUPPORT WEIGHTS		FOOTINGS				FIELD VERIFIED SEE NOTE 2 (mm/dd/yy)
		w	x	h										SNS HT "H"	MTG HT "C"	EMBED-MENT	S	L	LENGTH	S	L	LENGTH	S	L	LENGTH	B/A (lbs.)	SIMPLE (lbs.)	DIAMETER (ft.)	DEPTH (ft.)	REINFORCED (c.y.)	PLAIN (c.y.)	
101A	B	132	x	30	NB US-29 OFFSITE	3	W6x12	BA	N/A	1-R	N/A	30.00	7.63	6.00	7.00	3.5	2.03	15.03	18.53	3.02	16.02	19.52	3.24	16.24	19.74	810.41	0	1.5	4	0.79	0.00	
101B	A	258	x	72	-L- STA. 40+00	2	S4x7.7	BA	N/A	N/A	N/A	30.00	3.22	6.00	7.00	2.5	3.42	16.42	18.92	0.00	0.00	0.00	3.95	16.95	19.45	335.45	0	1.0	3	0.00	0.17	
103A	B	132	x	30	SB US-29 OFFSITE	3	W6x9	BA	N/A	1-R	N/A	30.00	7.63	6.00	7.09	3.5	0.03	13.12	16.62	-0.09	13.00	16.50	-0.07	13.02	16.52	542.77	0	1.5	4	0.79	0.00	
103B	A	258	x	72	SB US-29 OFFSITE	3	W6x9	BA	N/A	1-R	N/A	30.00	7.63	6.00	10.42	3.5	-2.52	13.90	17.40	-2.85	13.57	17.07	-3.42	13.00	16.50	554.73	0	1.5	4	0.79	0.00	
104A	B	132	x	30	SB US-29 OFFSITE	3	W6x9	BA	N/A	1-R	N/A	30.00	7.63	6.00	7.00	2.5	0.78	12.78	15.28	0.00	0.00	0.00	0.91	12.91	15.41	210.90	0	1.0	3	0.00	0.17	
104B	A	258	x	72	-L- STA. 50+00	2	S3x5.7	BA	N/A	N/A	N/A	Δ	4.69	5.00	7.00	2.5	0.64	12.64	15.14	0.00	0.00	0.00	0.87	12.87	15.37	209.88	0	1.0	3	0.00	0.17	
201	A	96	x	60	-L- STA. 72+40	2	S3x5.7	BA	N/A	N/A	N/A	Δ	4.69	5.00	7.00	2.5	0.64	12.64	15.14	0.00	0.00	0.00	0.87	12.87	15.37	209.88	0	1.0	3	0.00	0.17	
202	A	96	x	60	-L- STA. 72+40	2	S3x5.7	BA	N/A	N/A	N/A	Δ	4.69	5.00	7.00	2.5	0.64	12.64	15.14	0.00	0.00	0.00	0.87	12.87	15.37	209.88	0	1.0	3	0.00	0.17	
																							TOTAL	TOTAL			TOTAL	TOTAL				
																							2664.13	0.00			2.36	0.52				
																							USE:	2665.00	0.00			3.00	1.00			




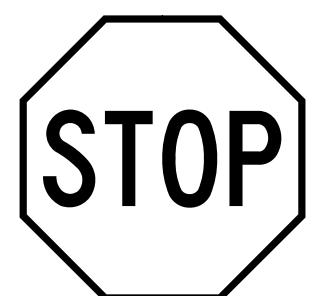

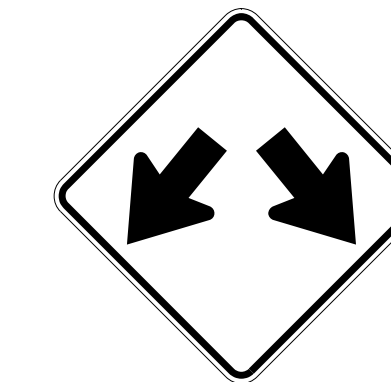
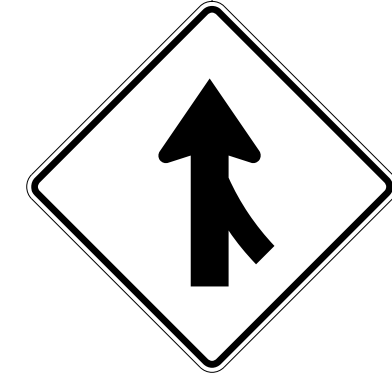
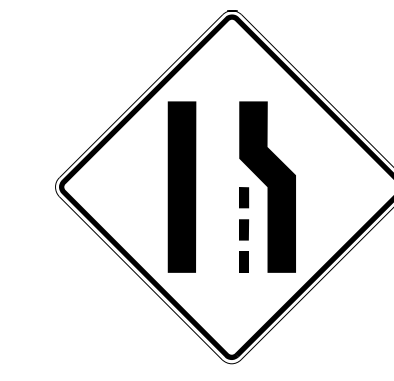

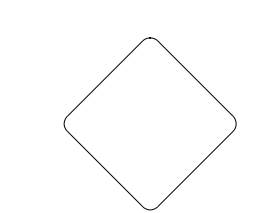




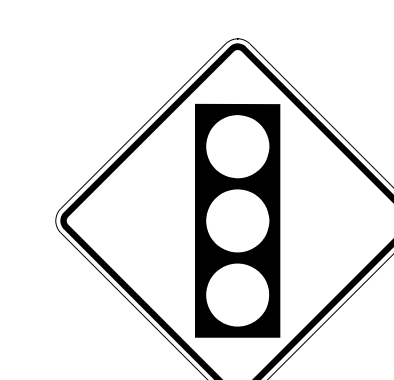
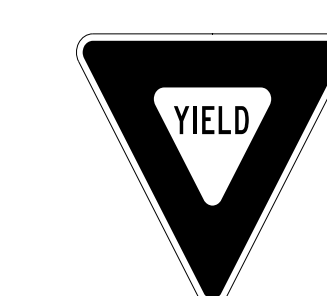
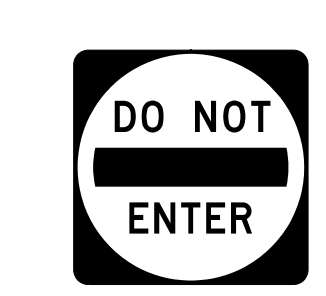



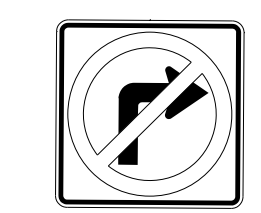

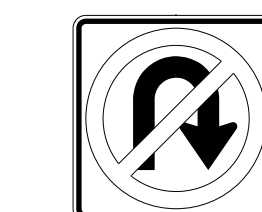








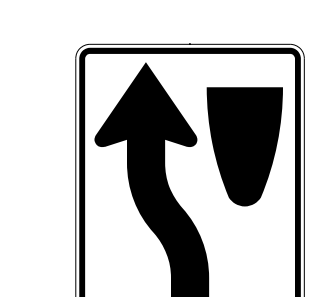
**NOTES**

- DIMENSION "S" REPRESENTS AN INCREASE (+), OR A DECREASE (-) IN POLE LENGTH, RELATIVE TO THE ELEVATION OF THE EDGE OF TRAVEL LANE.
- FIELD VERIFICATIONS SHALL BE REQUIRED FOR ALL SUPPORTS, SEE (\*) ARTICLE 903-3. FABRICATORS SHALL BE AISC CERTIFIED IN CATEGORY 1, SEE (\*) ARTICLE 1072-1. (\*) = N.C.D.O.T. STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES
- PLAN LOCATIONS FOR EXISTING UTILITIES ARE BASED ON THE BEST AVAILABLE INFORMATION AND, THEREFORE MAY NOT BE PRECISELY ACCURATE. THEREFORE, IT IS INCUMBENT UPON THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF UTILITIES BEFORE BEGINNING WORK IN A LOCATION.









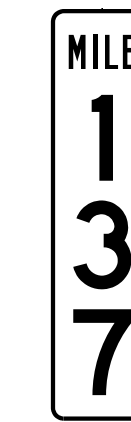
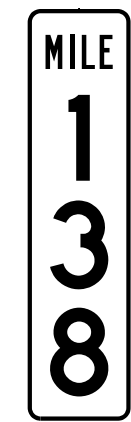



**TYPE "A" & "B"  
GROUND MOUNTED SIGNS**

**RK&K**  
 P: (919) 878-9560  
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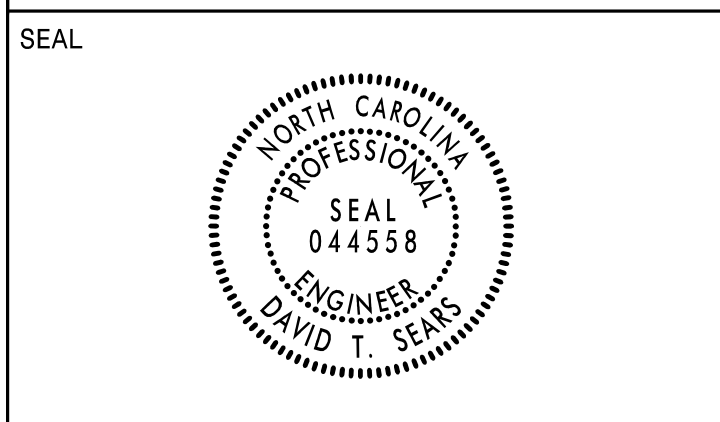
PROJECT REFERENCE NO. R-4707						SHEET NO. SIGN-3
<p>APPROVED: <i>David T. Sears</i>  <small>005990084BA458</small>  DATE: 4/16/2020</p>						<p>DocuSigned by:  <i>David T. Sears</i>  <small>005990084BA458</small>  DATE: 4/16/2020</p>
<p>SEAL</p> 						<p><b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b></p>
<p>401 QUANTITY REQ'D 2</p>  <p>R2-1 36" X 48"</p> <p>TWO "U" CHANNEL POSTS PER SIGN</p>	<p>402 QUANTITY REQ'D 6</p>  <p>R6-1R 54" X 18"</p> <p>TWO "U" CHANNEL POSTS PER SIGN</p>	<p>403 QUANTITY REQ'D 4</p>  <p>R1-1 36" X 36"</p> <p>MOUNT BELOW SIGN-429 IN ONE INSTALLATION. MOUNT BELOW SIGN-430 IN THREE INSTALLATIONS.</p>	<p>404 QUANTITY REQ'D 10</p>  <p>R5-1A 36" X 24"</p> <p>ONE "U" CHANNEL POST PER SIGN</p>	<p>405 QUANTITY REQ'D 3</p>  <p>W12-1 36" X 36"</p> <p>ONE "U" CHANNEL POST PER SIGN</p>	<p>406 QUANTITY REQ'D 2</p>  <p>W4-1 48" X 48"</p> <p>BARRIER MAOUNTED IN ONE INSTALLATION. TWO "U" CHANNEL POSTS IN ONE INSTALLATION.</p>	
<p>407 QUANTITY REQ'D 2</p>  <p>W4-2 36" X 36"</p> <p>ONE "U" CHANNEL POST PER SIGN</p>	<p>408 QUANTITY REQ'D 2</p>  <p>W9-1 36" X 36"</p> <p>ONE "U" CHANNEL POST PER SIGN</p>	<p>409 QUANTITY REQ'D 3</p>  <p>OM1-3 18" X 18"</p> <p>ONE "U" CHANNEL POST PER SIGN</p>	<p>410 QUANTITY REQ'D 1</p>  <p>M4-4 24" X 12"</p> <p>MOUNT BELOW SIGN-423 IN ONE INSTALLATION</p>	<p>411 QUANTITY REQ'D 1</p>  <p>W3-5 36" X 36"</p> <p>ONE "U" CHANNEL POST</p>	<p>412 QUANTITY REQ'D 10</p>  <p>R4-7 24" X 30"</p> <p>ONE "U" CHANNEL POST PER SIGN</p>	
<p>413 QUANTITY REQ'D 5</p>  <p>R2-1 24" X 30"</p> <p>ONE "U" CHANNEL POST PER SIGN</p>	<p>414 QUANTITY REQ'D 2</p>  <p>W3-3 36" X 36"</p> <p>ONE "U" CHANNEL POST PER SIGN</p>	<p>415 QUANTITY REQ'D 4</p>  <p>R1-2 36" X 36" X 36"</p> <p>ONE "U" CHANNEL POST PER SIGN</p>	<p>416 QUANTITY REQ'D 4</p>  <p>R5-1 30" X 30"</p> <p>ONE "U" CHANNEL POST PER SIGN</p>	<p>417 QUANTITY REQ'D 8</p>  <p>W11-2 30" X 30"</p> <p>ONE "U" CHANNEL POST PER SIGN</p>	<p>418 QUANTITY REQ'D 4</p>  <p>W16-7PL 24" X 12"</p> <p>MOUNT BELOW SIGN-417 IN FOUR INSTALLATIONS.</p>	
<p>419 QUANTITY REQ'D 4</p>  <p>W16-7PR 24" X 12"</p> <p>MOUNT BELOW SIGN-417 IN FOUR INSTALLATIONS.</p>	<p>420 QUANTITY REQ'D 2</p>  <p>R3-1 36" X 36"</p> <p>ONE "U" CHANNEL POST PER SIGN</p>	<p>421 QUANTITY REQ'D 3</p>  <p>R3-2 36" X 36"</p> <p>ONE "U" CHANNEL POST PER SIGN</p>	<p>422 QUANTITY REQ'D 2</p>  <p>R3-4MOD 36" X 36"</p> <p>ONE "U" CHANNEL POST PER SIGN</p>	<p>423 QUANTITY REQ'D 4</p>  <p>R3-4 36" X 36"</p> <p>ONE "U" CHANNEL POST PER SIGN IN TWO INSTALLATIONS. MOUNT BELOW SIGN 412 IN ONE INSTALLATION.</p>	<p>424 QUANTITY REQ'D 6</p>  <p>R3-7R 36" X 36"</p> <p>ONE "U" CHANNEL POST</p>	
<p>425 QUANTITY REQ'D 2</p>  <p>R2-1 24" X 30"</p> <p>ONE "U" CHANNEL POST PER SIGN</p>	<p>426 QUANTITY REQ'D 1</p>  <p>W14-2 30" X 30"</p> <p>ONE "U" CHANNEL POST</p>	<p>427 QUANTITY REQ'D 1</p>  <p>W14-12 30" X 30"</p> <p>ONE "U" CHANNEL POST</p>	<p>428 QUANTITY REQ'D 1</p>  <p>R3-23A 60" X 36"</p> <p>TWO "U" CHANNEL POSTS</p>	<p>429 QUANTITY REQ'D 1</p>  <p>R6-1L 36" X 12"</p> <p>ONE "U" CHANNEL POST</p>	<p>430 QUANTITY REQ'D 3</p>  <p>R6-1R 36" X 12"</p> <p>ONE "U" CHANNEL POST PER SIGN</p>	
<p>431 QUANTITY REQ'D 2</p>  <p>R4-8 24" X 30"</p> <p>ONE "U" CHANNEL POST PER SIGN</p>	<p><b>PROPOSED 'E' SIGNS</b></p>					



PROJECT REFERENCE NO. R-4707		SHEET NO. SIGN-3A				
<p>DocuSigned by: <i>David T. Sears</i></p> <p>APPROVED: _____</p> <p>DATE: 4/16/2020</p>		<p>SEAL</p>  <p><b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b></p>				
<p>432 QUANTITY REQ'D 2</p>  <p>R3-17aP 24" X 8"</p> <p>MOUNT BELOW SIGN-433 IN TWO INSTALLATIONS</p>	<p>433 QUANTITY REQ'D 8</p>  <p>R3-17 24" X 18"</p> <p>ONE "U" CHANNEL POST PER SIGN</p>	<p>434 QUANTITY REQ'D 2</p>  <p>R4-4 36" X 30"</p> <p>ONE "U" CHANNEL POST PER SIGN</p>	<p>435 QUANTITY REQ'D 2</p>  <p>R3-17bP 24" X 8"</p> <p>MOUNT BELOW SIGN-433 IN TWO INSTALLATIONS</p>			
<p>501</p>  <p>M3-3 36" X 18"</p> <p>M1-4 36" X 36"</p> <p>ONE "U" CHANNEL POST</p>	<p>502</p>  <p>M3-1 36" X 18"</p> <p>M1-4 36" X 36"</p> <p>ONE "U" CHANNEL POST</p>	<p>503 504</p>  <p>M2-1 21" X 15"</p> <p>M1-4 24" X 24"</p> <p>ONE "U" CHANNEL POST PER SIGN</p>				
	<p>QUANTITY REQ'D 2</p>  <p>D10-3 12" X 48"</p> <p>ONE 2 LB. U-POST PER SIGN</p>	<p>QUANTITY REQ'D 2</p>  <p>D10-3 12" X 48"</p> <p>ONE 2 LB. U-POST PER SIGN</p>				
 <p>P: (919) 878-9560 8601 Six Forks Road Forum 1 Suite 700   Raleigh, N.C. 27615 NC License No. F-0112</p> <p>Engineers   Construction Managers   Planners   Scientists www.rkk.com</p> <p>Responsive People   Creative Solutions</p>		<p><b>PROPOSED 'E' &amp; 'F' SIGNS AND MILEMARKERS</b></p>				

04/16/2020 10:54 AM

APPROVED: *David T. Sears*  
3655FB0D84B458  
 DATE: 4/16/2020



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

SIGN NUMBER: 1A,2A,4A TYPE: B QUANTITY: 3 SIGN WIDTH: 11'-0" HEIGHT: 2'-6" TOTAL AREA: 27.5 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 3" NO. Z BARS: 2 LENGTH: 124.0 USE NOTES: 1,2 1. Legend and border (except those that are colored black) shall be direct applied Grade A sheeting. 2. Background shall be Grade C reflective sheeting. 3. Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable. 4. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:	BACKG COLOR: Green COPY COLOR: White DESIGN BY: A. TUTT PROJECT ID: R-4707 LOCATION: NB US-29 OFFSITE, -L- STA. 47+08, -L- STA. 78+18 CHECKED BY: D. SEARS Jan 20, 2020 DIV: 7 MAT'L: 0.125" (3.2 mm) ALUMINUM
--	--

Letter positions										Series/Size
Letter spacings are to start of next letter										Text Length
	E	X	I	T						E 2000
26	9.2	11.1	3.8	7.5	74.4					31.6
	1	3	7							E 2000
72.6	7.5	13.8	12.2	26						33.5

FILENAME: R4707\_SGN\_DESIGN\_01 NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 1B TYPE: A QUANTITY: 1 SIGN WIDTH: 21'-6" HEIGHT: 6'-0" TOTAL AREA: 129.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 9" NO. Z BARS: 2 LENGTH: 250.0 USE NOTES: 1,2 1. Legend and border (except those that are colored black) shall be direct applied Grade A sheeting. 2. Background shall be Grade C reflective sheeting. 3. Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable. 4. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:	BACKG COLOR: Green COPY COLOR: White DESIGN BY: D. SEARS PROJECT ID: R-4707 LOCATION: NB US-29 OFFSITE CHECKED BY: A. TUTT Dec 12, 2019 DIV: 7 MAT'L: 0.125" (3.2 mm) ALUMINUM
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Letter positions										Series/Size						
Letter spacings are to start of next letter										Text Length						
	R	e	e	d	y	F	o	r	k	P	k	w	y	E 2000		
18.4	15.8	14.1	14.1	15.2	13.6	16	14.7	15.8	11.8	16	16.8	13.8	19.2	13.6	18.4	221.1
	1		1/2		M	I	L	E	S							E 2000
83.2	4.5	7.5	22	15	12	4.4	9.2	8.9	8.1	83.2						91.6

FILENAME: R4707\_SGN\_DESIGN\_02 NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 2B,4B TYPE: A QUANTITY: 2 SIGN WIDTH: 25'-0" HEIGHT: 5'-0" TOTAL AREA: 125.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 6" NO. Z BARS: 2 LENGTH: 292.0 USE NOTES: 1,2,3 1. Legend and border (except those that are colored black) shall be direct applied Grade A sheeting. 2. Background shall be Grade C reflective sheeting. 3. Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable. 4. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:	BACKG COLOR: Green COPY COLOR: White DESIGN BY: A. TUTT PROJECT ID: R-4707 LOCATION: -L- STA. 47+08, -L- STA. 78+18 CHECKED BY: D. SEARS Dec 09, 2019 DIV: 7 MAT'L: 0.125" (3.2 mm) ALUMINUM
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Letter positions										Series/Size						
Letter spacings are to start of next letter										Text Length						
	R	e	e	d	y	F	o	r	k	P	k	w	y	E 2000		
17.7	15.8	14.1	14.1	15.2	13.6	16	14.7	15.8	11.8	10.6	16.8	13.8	19.2	13.6	61.2	221.1

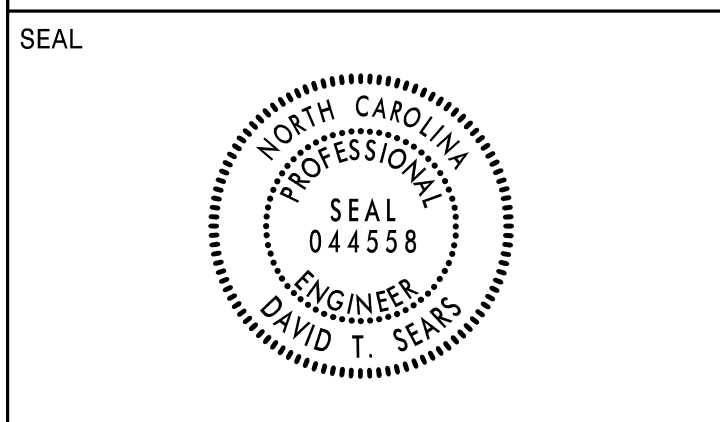
FILENAME: R4707\_SGN\_DESIGN\_03 NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 3A TYPE: B QUANTITY: 1 SIGN WIDTH: 11'-0" HEIGHT: 2'-6" TOTAL AREA: 27.5 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 3" NO. Z BARS: 2 LENGTH: 124.0 USE NOTES: 1,2 1. Legend and border (except those that are colored black) shall be direct applied Grade A sheeting. 2. Background shall be Grade C reflective sheeting. 3. Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable. 4. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:	BACKG COLOR: Green COPY COLOR: White DESIGN BY: A. TUTT PROJECT ID: R-4707 LOCATION: -L- STA. 78+18 CHECKED BY: D. SEARS Dec 09, 2019 DIV: 7 MAT'L: 0.125" (3.2 mm) ALUMINUM
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Letter positions										Series/Size
Letter spacings are to start of next letter										Text Length
	E	X	I	T						E 2000
25.5	9.2	11.1	3.8	7.5	74.9					31.6
	1	3	6							E 2000
72.1	7.5	14.7	12.2	25.5						34.4

FILENAME: R4707\_SGN\_DESIGN\_04 NORTH CAROLINA D.O.T. SIGN DETAIL





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

SIGN NUMBER: 3B TYPE: A QUANTITY: 1 SIGN WIDTH: 13'-6" HEIGHT: 6'-0" TOTAL AREA: 81.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 9" NO. Z BARS: 2 LENGTH: 154.0 USE NOTES: 1,2 1. Legend and border (except those that are colored black) shall be direct applied Grade A sheeting. 2. Background shall be Grade C reflective sheeting. 3. Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable. 4. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:	BACKG COLOR: Green COPY COLOR: White SYMBOL X Y WID HT MAT'L: 0.125" (3.2 mm) ALUMINUM	DESIGN BY: A. TUTT PROJECT ID: R-4707 CHECKED BY: D. SEARS LOCATION: -L- STA. 78+18 Dec 09, 2019 DIV: 7
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Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS												Series/Size
Letter spacings are to start of next letter												Text Length
H	I	C	O	N	E	R	D					EM 2000
18.5	18.4	8.2	14.1	15.8	10.6	16	15.8	10.6				125
1		3/4		M	I	L	E	S				E 2000
33.7	4.5	7.5	25	15	12	4.4	9.2	8.9	8.1	33.7		94.6

FILENAME: R4707\_SGN\_DESIGN\_015 NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 5B TYPE: A QUANTITY: 2 SIGN WIDTH: 13'-0" HEIGHT: 12'-0" TOTAL AREA: 156.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 12" NO. Z BARS: 3 LENGTH: 148.0 USE NOTES: 1,2,3 1. Legend and border (except those that are colored black) shall be direct applied Grade A sheeting. 2. Background shall be Grade C reflective sheeting. 3. Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable. 4. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:	BACKG COLOR: Green COPY COLOR: White SYMBOL X Y WID HT W1-4 22.5 92 36 36 R3-SL 63 16 30 36 MAT'L: 0.125" (3.2 mm) ALUMINUM	DESIGN BY: A. TUTT PROJECT ID: R-4707 CHECKED BY: D. SEARS LOCATION: -Y- STA. 33+50, -Y- STA. 42+44 Mar 04, 2020 DIV: 7
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Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS												Series/Size
Letter spacings are to start of next letter												Text Length
N	O	R	T	H								E 2000
73.5	12.2	3.1	12.8	11	11	9.7	22.5					59.9
R	E	I	D	S	V	I	L	E				E 2000
16.3	15.8	15.5	8.2	15.2	13.8	17	9.6	9.6	8.2	10.6	16.3	123.4

FILENAME: R4707\_SGN\_DESIGN\_016 NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 6 TYPE: A QUANTITY: 1 SIGN WIDTH: 14'-6" HEIGHT: 12'-0" TOTAL AREA: 174.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 12" NO. Z BARS: 3 LENGTH: 166.0 USE NOTES: 1,2,3 1. Legend and border (except those that are colored black) shall be direct applied Grade A sheeting. 2. Background shall be Grade C reflective sheeting. 3. Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable. 4. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:	BACKG COLOR: Green COPY COLOR: White SYMBOL X Y WID HT W1-4 31.8 92 36 36 R3-SR 72 16 30 36 MAT'L: 0.125" (3.2 mm) ALUMINUM	DESIGN BY: A. TUTT PROJECT ID: R-4707 CHECKED BY: D. SEARS LOCATION: -Y- STA. 33+50 Mar 04, 2020 DIV: 7
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Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS												Series/Size
Letter spacings are to start of next letter												Text Length
S	O	U	T	H								E 2000
82.6	12.2	2.2	12.8	11.8	11	9.7	31.6					59.8
G	R	E	E	N	S	B	O	R	O			E 2000
17.2	17.8	10.4	14.1	15.5	15.2	15.5	14.1	15.8	10.4	10.9	17.2	139.7

FILENAME: R4707\_SGN\_DESIGN\_017 NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 7 TYPE: A QUANTITY: 1 SIGN WIDTH: 17'-6" HEIGHT: 12'-0" TOTAL AREA: 210.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 12" NO. Z BARS: 3 LENGTH: 202.0 USE NOTES: 1,2,3 1. Legend and border (except those that are colored black) shall be direct applied Grade A sheeting. 2. Background shall be Grade C reflective sheeting. 3. Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable. 4. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:	BACKG COLOR: Green COPY COLOR: White SYMBOL X Y WID HT W1-4 49.6 92 36 36 R3-SL 18 16 30 36 R3-SL 162 16 30 36 MAT'L: 0.125" (3.2 mm) ALUMINUM	DESIGN BY: A. TUTT PROJECT ID: R-4707 CHECKED BY: D. SEARS LOCATION: -Y- STA. 40+24 Mar 04, 2020 DIV: 7
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Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS												Series/Size
Letter spacings are to start of next letter												Text Length
S	O	U	T	H								E 2000
100.6	12.2	2.2	12.8	11.8	11	9.7	49.6					59.8
G	R	E	E	N	S	B	O	R	O			E 2000
35.2	17.8	10.4	14.1	15.5	15.2	15.5	14.1	15.8	10.4	10.9	35.2	139.7

FILENAME: R4707\_SGN\_DESIGN\_018 NORTH CAROLINA D.O.T. SIGN DETAIL



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

<b>SIGN NUMBER:</b> 9	<b>BACKG COLOR:</b> Green	<b>DESIGN BY:</b> A. TUTT	<b>CHECKED BY:</b> D. SEARS	<b>Mar 04, 2020</b>																				
<b>TYPE:</b> A	<b>COPY COLOR:</b> White	<b>PROJECT ID:</b> R-4707	<b>LOCATION:</b> -Y- STA. 46+80	<b>DIV:</b> 7																				
<b>QUANTITY:</b> 1	<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>M1-4_2_EX</td> <td>67.6</td> <td>92</td> <td>36</td> <td>36</td> </tr> <tr> <td>R3-SL</td> <td>18</td> <td>16</td> <td>30</td> <td>36</td> </tr> <tr> <td>R3-SL</td> <td>198</td> <td>16</td> <td>30</td> <td>36</td> </tr> </tbody> </table>	SYMBOL	X	Y	WID	HT	M1-4_2_EX	67.6	92	36	36	R3-SL	18	16	30	36	R3-SL	198	16	30	36			
SYMBOL	X	Y	WID	HT																				
M1-4_2_EX	67.6	92	36	36																				
R3-SL	18	16	30	36																				
R3-SL	198	16	30	36																				
<b>SIGN WIDTH:</b> 20'-6"		<p><b>TOTAL AREA:</b> 246.0 Sq.Ft.</p>																						
<b>HEIGHT:</b> 12'-0"		<p><b>BORDER TYPE:</b> FLUSH</p> <p><b>RECESS:</b> 0"</p> <p><b>WIDTH:</b> 2"</p> <p><b>RADIUS:</b> 12"</p>																						
<b>NO. 2 BARS:</b> 3	<b>MAT'L:</b> 0.125" (3.2 mm) ALUMINUM	<p><b>USE NOTES:</b> 1,2,3</p> <ol style="list-style-type: none"> <li>Legend and border (except those that are colored black) shall be direct applied Grade A sheeting.</li> <li>Background shall be Grade C reflective sheeting.</li> <li>Shields, A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.</li> <li>Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:</li> </ol>																						
<b>LENGTH:</b> 238.0		<p>Spacing Factor is 1 unless specified otherwise</p>																						

**LETTER POSITIONS**

Letter spacings are to start of next letter

Letter	Series/Size	Text Length
S	E 2000	6.76
O	E 2000	6.76
U	E 2000	6.76
T	E 2000	6.76
H	E 2000	6.76
G	EM 2000	139.7
r	EM 2000	139.7
e	EM 2000	139.7
e	EM 2000	139.7
n	EM 2000	139.7
s	EM 2000	139.7
b	EM 2000	139.7
o	EM 2000	139.7
r	EM 2000	139.7
o	EM 2000	139.7

FILENAME: R4707\_SGN\_DESIGNS NORTH CAROLINA D.O.T. SIGN DETAIL

<b>SIGN NUMBER:</b> 10	<b>BACKG COLOR:</b> Green	<b>DESIGN BY:</b> A. TUTT	<b>CHECKED BY:</b> D. SEARS	<b>Feb 13, 2020</b>															
<b>TYPE:</b> A	<b>COPY COLOR:</b> White	<b>PROJECT ID:</b> R-4707	<b>LOCATION:</b> -Y- STA. 46+80	<b>DIV:</b> 7															
<b>QUANTITY:</b> 1	<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>M1_4</td> <td>24.4</td> <td>45.1</td> <td>36</td> <td>36</td> </tr> <tr> <td>AR_Type A</td> <td>158.3</td> <td>36</td> <td>22.2</td> <td>35</td> </tr> </tbody> </table>	SYMBOL	X	Y	WID	HT	M1_4	24.4	45.1	36	36	AR_Type A	158.3	36	22.2	35			
SYMBOL	X	Y	WID	HT															
M1_4	24.4	45.1	36	36															
AR_Type A	158.3	36	22.2	35															
<b>SIGN WIDTH:</b> 17'-0"		<p><b>TOTAL AREA:</b> 136.0 Sq.Ft.</p>																	
<b>HEIGHT:</b> 8'-0"		<p><b>BORDER TYPE:</b> FLUSH</p> <p><b>RECESS:</b> 0"</p> <p><b>WIDTH:</b> 2"</p> <p><b>RADIUS:</b> 12"</p>																	
<b>NO. 2 BARS:</b> 3	<b>MAT'L:</b> 0.125" (3.2 mm) ALUMINUM	<p><b>USE NOTES:</b> 1,2,3</p> <ol style="list-style-type: none"> <li>Legend and border (except those that are colored black) shall be direct applied Grade A sheeting.</li> <li>Background shall be Grade C reflective sheeting.</li> <li>Shields, A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.</li> <li>Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:</li> </ol>																	
<b>LENGTH:</b> 196.0		<p>Spacing Factor is 1 unless specified otherwise</p>																	

**LETTER POSITIONS**

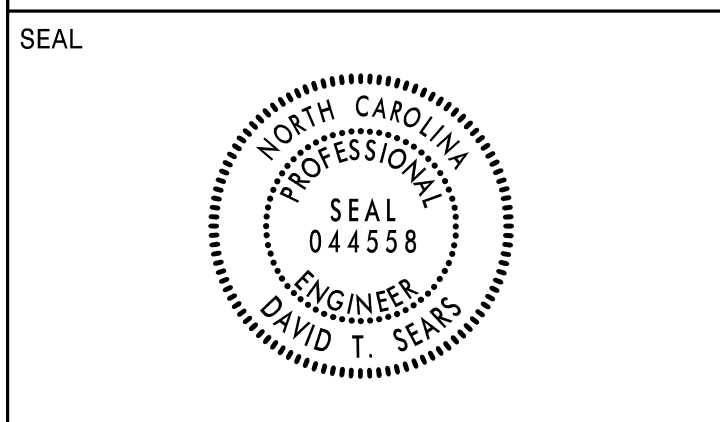
Letter spacings are to start of next letter

Letter	Series/Size	Text Length
N	E 2000	6.87
O	E 2000	6.87
R	E 2000	6.87
T	E 2000	6.87
H	E 2000	6.87
R	EM 2000	123.4
e	EM 2000	123.4
i	EM 2000	123.4
d	EM 2000	123.4
s	EM 2000	123.4
v	EM 2000	123.4
i	EM 2000	123.4
i	EM 2000	123.4
e	EM 2000	123.4

FILENAME: R4707\_SGN\_DESIGNS NORTH CAROLINA D.O.T. SIGN DETAIL



APPROVED: *David T. Sears*  
 DATE: 4/16/2020



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

SIGN NUMBER: 101A, 103A, 104A    BACKG COLOR: Green  
 TYPE: B    COPY COLOR: White  
 QUANTITY: 3

SYMBOL	X	Y	WID	HT

SIGN WIDTH: 11'-0"  
 HEIGHT: 2'-6"  
 TOTAL AREA: 27.5 Sq.Ft.

BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 2"  
 RADII: 3"

NO. Z BARS: 2  
 LENGTH: 124.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: A. TUTT    CHECKED BY: D. SEARS    Jan 29, 2020  
 PROJECT ID: R-4707    LOCATION: NB US-29 OFFSITE, SB US-29 OFFSITE, SB US-29 OFFSITE    DIV: 7

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.
- Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

Spacing Factor is 1.2 for "EXIT"  
 Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

	E	X	I	T		Series/Size	
	26	9.2	11.1	3.8	7.5	74.4	Text Length
		1	3	7			E 2000
	72.6	7.5	13.8	12.2	26		31.6
							E 2000
							33.5

FILENAME: R4707\_SGN\_DESIGNS    NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 101B, 103B    BACKG COLOR: Green  
 TYPE: A    COPY COLOR: White  
 QUANTITY: 2

SYMBOL	X	Y	WID	HT

SIGN WIDTH: 21'-6"  
 HEIGHT: 6'-0"  
 TOTAL AREA: 129.0 Sq.Ft.

BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 2"  
 RADII: 9"

NO. Z BARS: 2  
 LENGTH: 250.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. SEARS    CHECKED BY: A. TUTT    Dec 12, 2019  
 PROJECT ID: R-4707    LOCATION: NB US-29 OFFSITE, SB US-29 OFFSITE    DIV: 7

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.
- Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

	R	e	e	d	y	F	o	r	k	P	k	w	y		Series/Size			
	18.4	15.8	14.1	14.1	15.2	13.6	16	14.7	15.8	11.8	10.6	16	16.8	13.8	19.2	13.6	18.4	Text Length
		3/4		M	I	L	E											E 2000
	92.5	25	15	12	4.4	9.2	7.5	92.5										221.1
																		E 2000
																		73.1

FILENAME: R4707\_SGN\_DESIGNS    NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 102    BACKG COLOR: Green  
 TYPE: A    COPY COLOR: White  
 QUANTITY: 1

SYMBOL	X	Y	WID	HT
M1_1 MOD	10.5	11	45	36

SIGN WIDTH: 5'-6"  
 HEIGHT: 6'-0"  
 TOTAL AREA: 33.0 Sq.Ft.

BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 1.5"  
 RADII: 9"

NO. Z BARS: 2  
 LENGTH: 58.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: A. TUTT    CHECKED BY: D. SEARS    Dec 09, 2019  
 PROJECT ID: R-4707    LOCATION: -L- STA. 40+00    DIV: 7

USE NOTES: 1,2,3

- Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
- Background shall be Grade C reflective sheeting.
- Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

	F	U	T	U	R	E		Series/Size	
	10.4	7.4	7.8	7.4	8.6	8.1	6	10.4	Text Length
									E 2000
									45.2

FILENAME: R4707\_SGN\_DESIGNS\_DTS    NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 104B    BACKG COLOR: Green  
 TYPE: A    COPY COLOR: White  
 QUANTITY: 1

SYMBOL	X	Y	WID	HT

SIGN WIDTH: 21'-6"  
 HEIGHT: 6'-0"  
 TOTAL AREA: 129.0 Sq.Ft.

BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 2"  
 RADII: 9"

NO. Z BARS: 2  
 LENGTH: 250.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. SEARS    CHECKED BY: A. TUTT    Dec 12, 2019  
 PROJECT ID: R-4707    LOCATION: SB US-29 OFFSITE    DIV: 7

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.
- Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

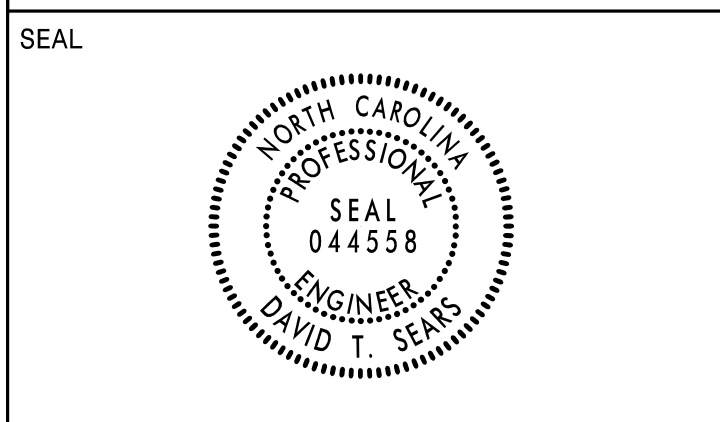
Letter spacings are to start of next letter

	R	e	e	d	y	F	o	r	k	P	k	w	y		Series/Size			
	18.4	15.8	14.1	14.1	15.2	13.6	16	14.7	15.8	11.8	10.6	16	16.8	13.8	19.2	13.6	18.4	Text Length
		1		1/4		M	I	L	E	S								E 2000
	83.2	4.5	7.5	22	15	12	4.4	9.2	8.9	8.1	83.2							91.6
																		E 2000
																		221.1

FILENAME: R4707\_SGN\_DESIGNS    NORTH CAROLINA D.O.T. SIGN DETAIL



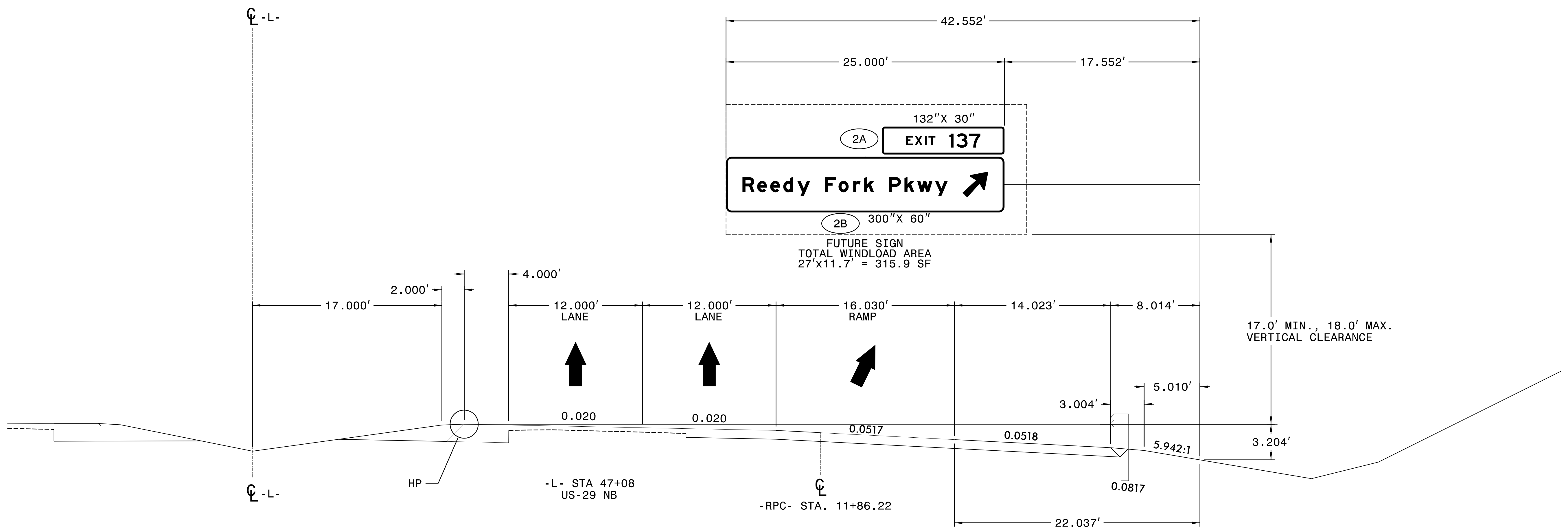


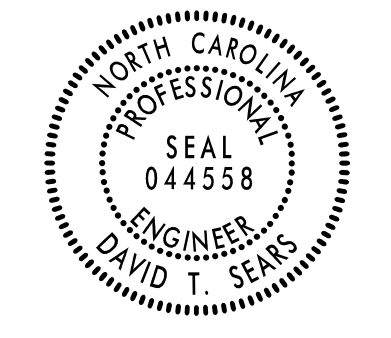


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**NOTES:**

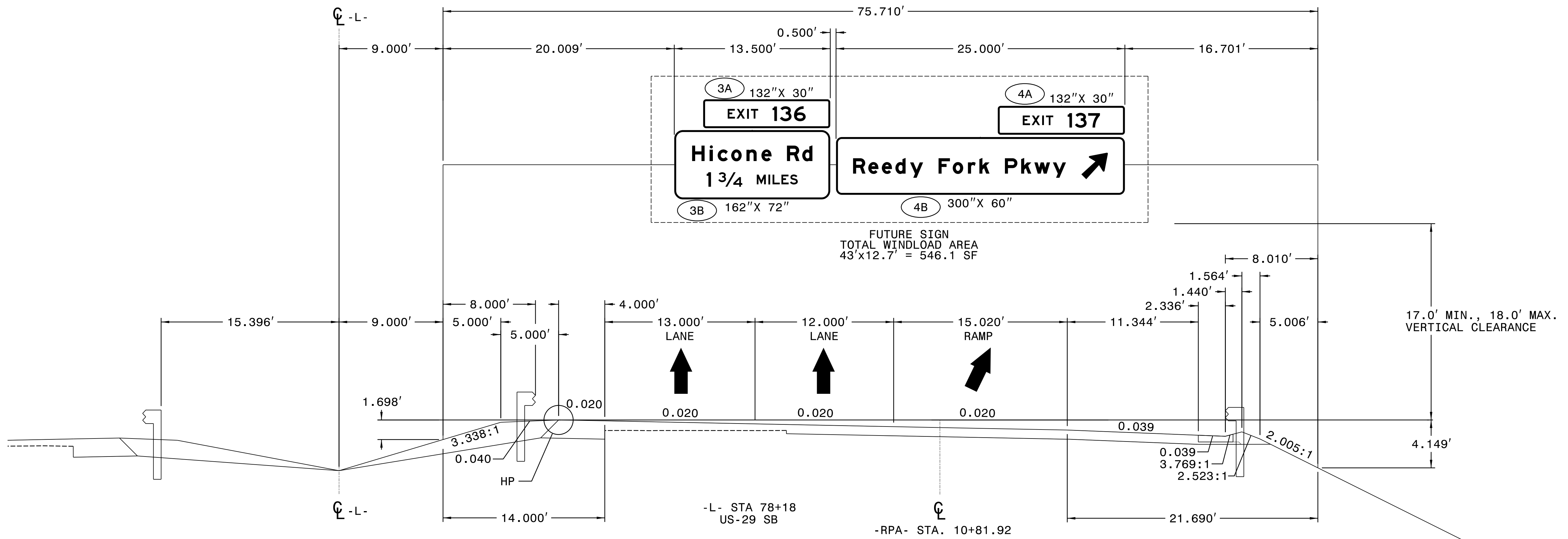
1. IF THE CONTRACTOR BIDS AN ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
2. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
3. FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
4. THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 4" AND NOT MORE THAN 24" ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
5. SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
6. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 MPH.



PROJECT REFERENCE NO. <b>R-4707</b>	SHEET NO. <b>SIGN-4F</b>
APPROVED: <i>David T. Sears</i> 3855FB0D04B4A58 DATE: 4/16/2020	
SEAL 	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

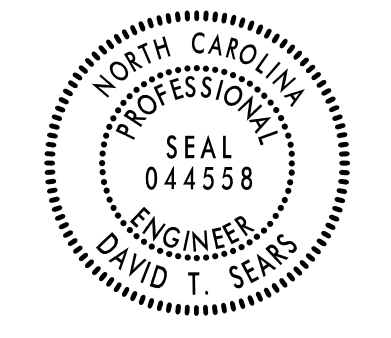
**NOTES:**

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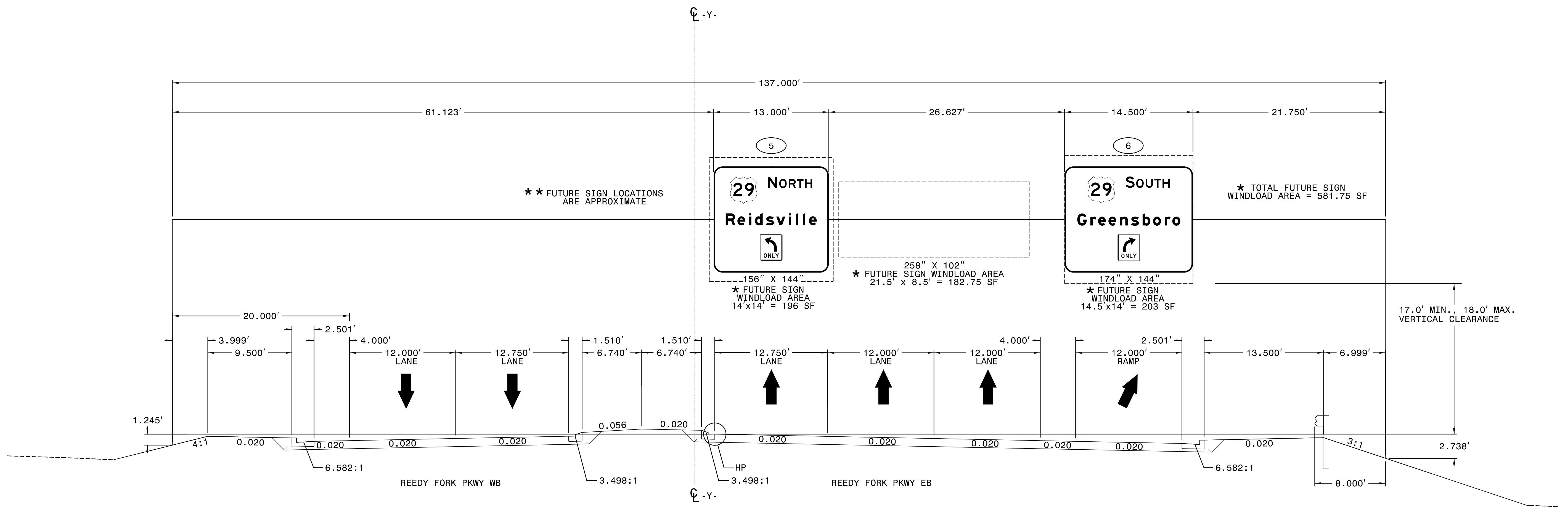
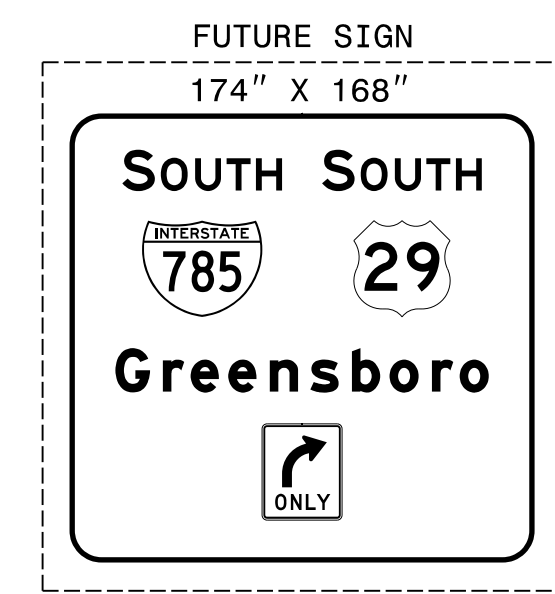
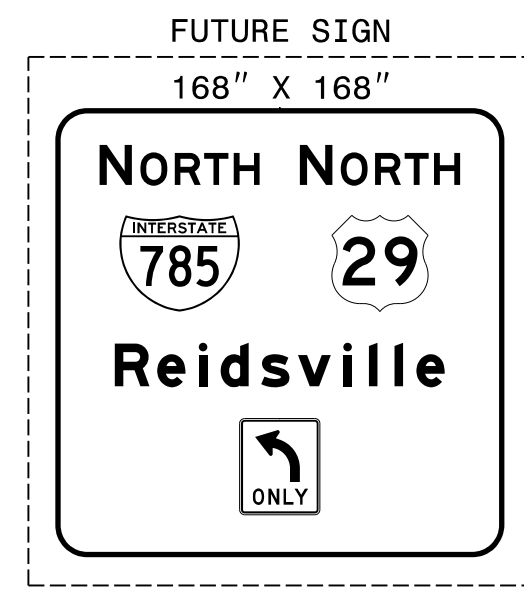
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**OVERHEAD SIGN  
ASSEMBLY "B"  
-L- STA. 78+18**

PROJECT REFERENCE NO. <b>R-4707</b>	SHEET NO. <b>SIGN-4G</b>
APPROVED: <i>David T. Sears</i> 3855FB0D64B458	
DATE: 4/16/2020	
SEAL 	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

**NOTES:**


- IF THE CONTRACTOR BIDS AN ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
- MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
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- DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 MPH.



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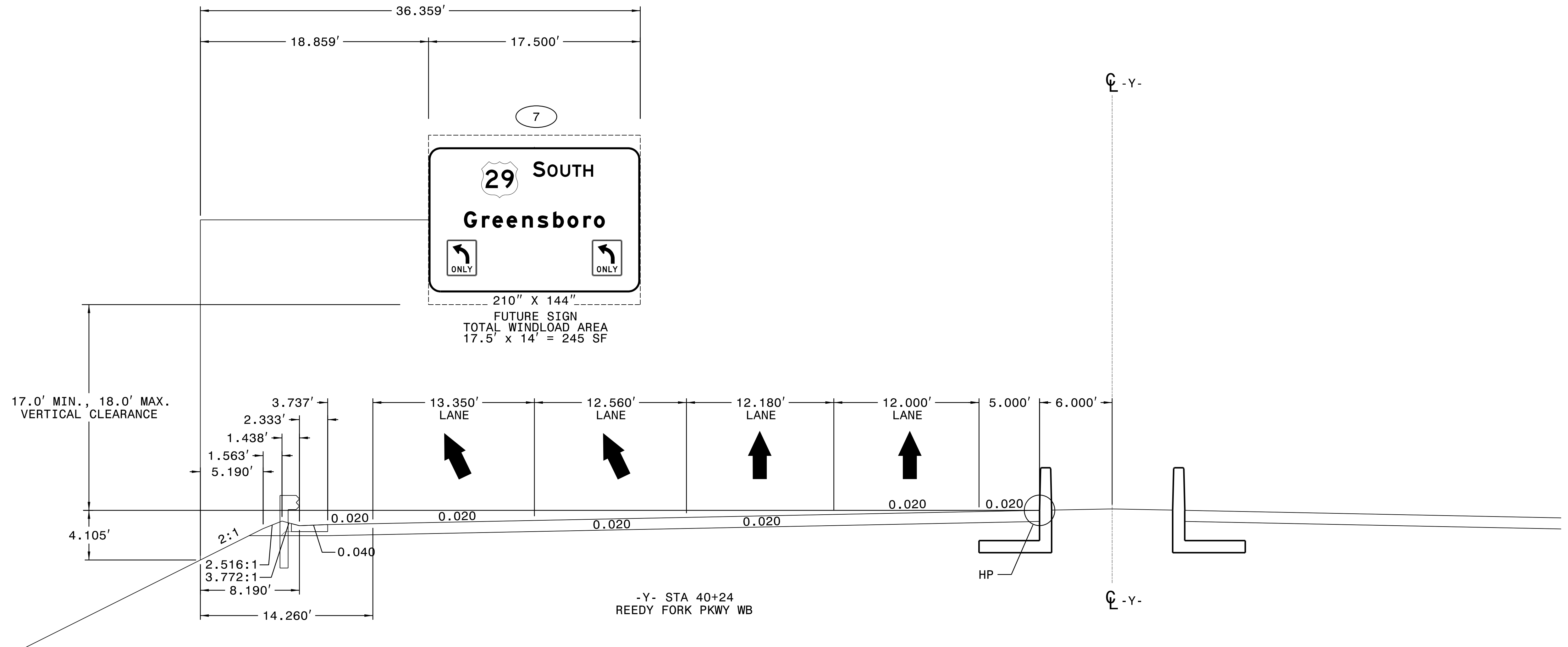
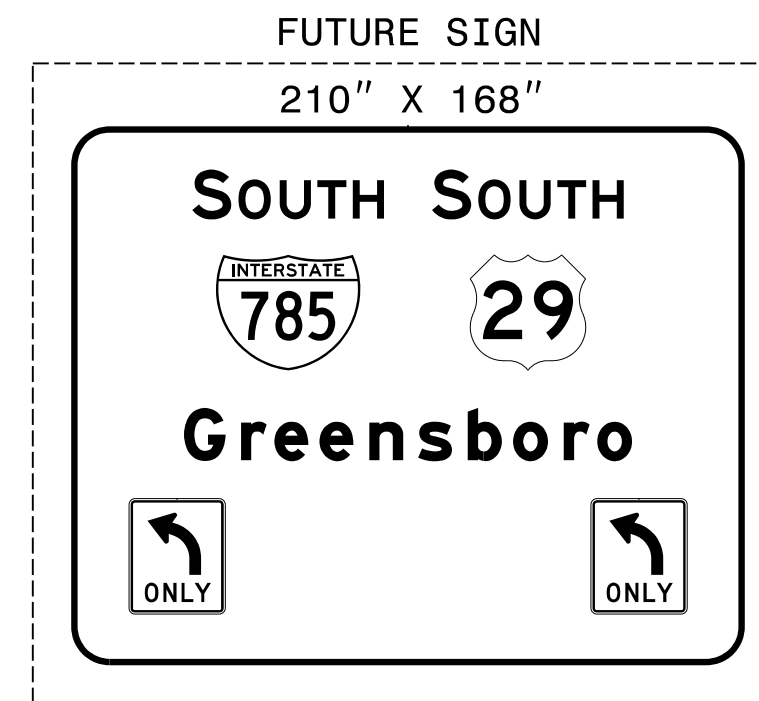
**OVERHEAD SIGN ASSEMBLY "C"**  
**-Y- STA. 33+50**



PROJECT REFERENCE NO.	SHEET NO.
R-4707	SIGN-4H
APPROVED: <i>David T. Sears</i> DocuSigned by: 3855FB0D64B458	
DATE: 4/16/2020	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

**NOTES:**

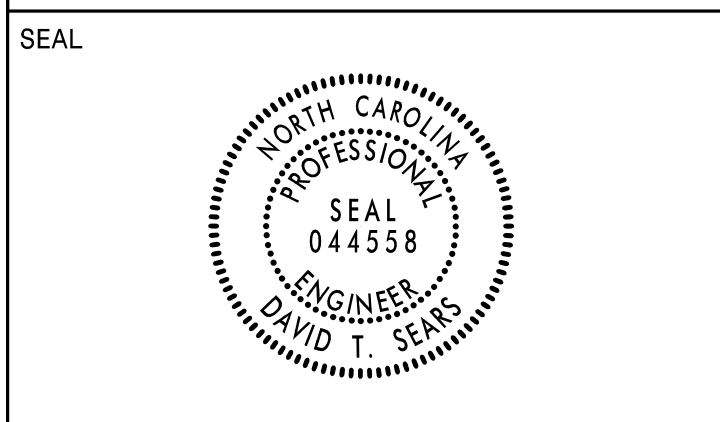
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**OVERHEAD SIGN  
ASSEMBLY "D"  
-Y- STA. 40+24**

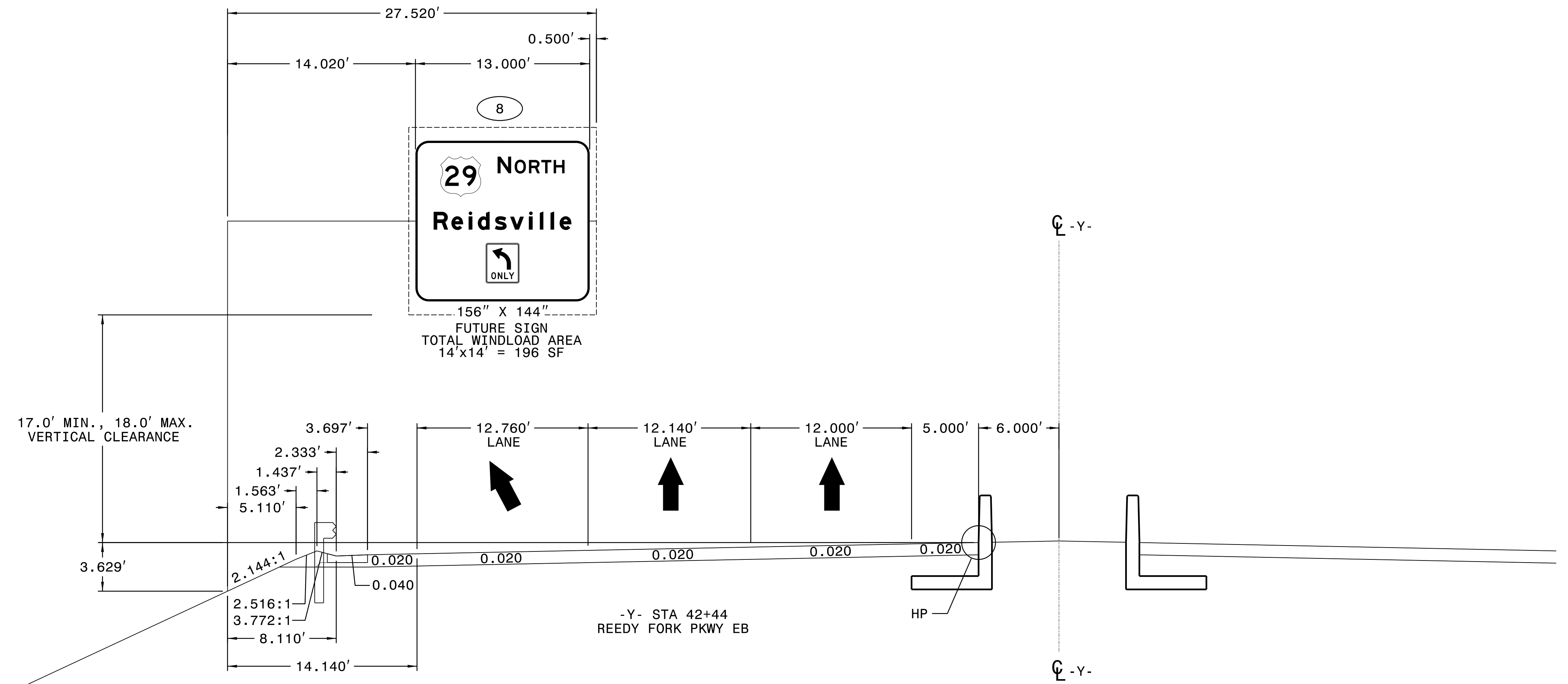
APPROVED: *David T. Sears*  
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 3855FB0D64B4A58  
 DATE: 4/16/2020



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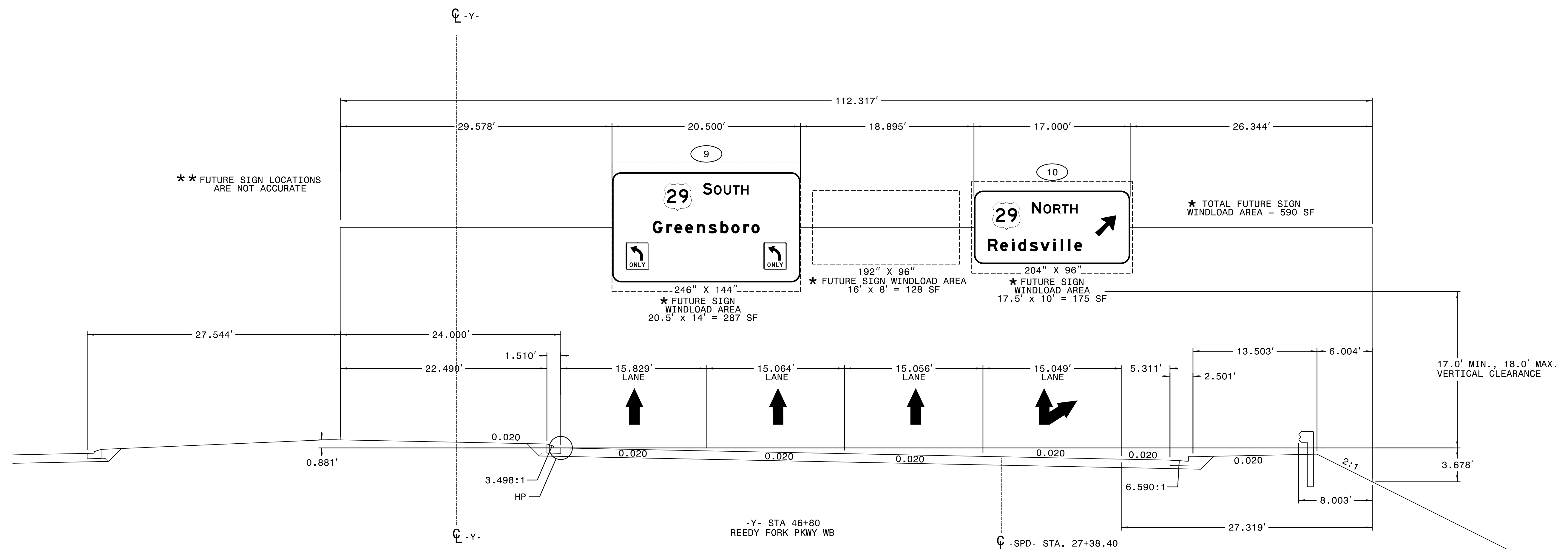
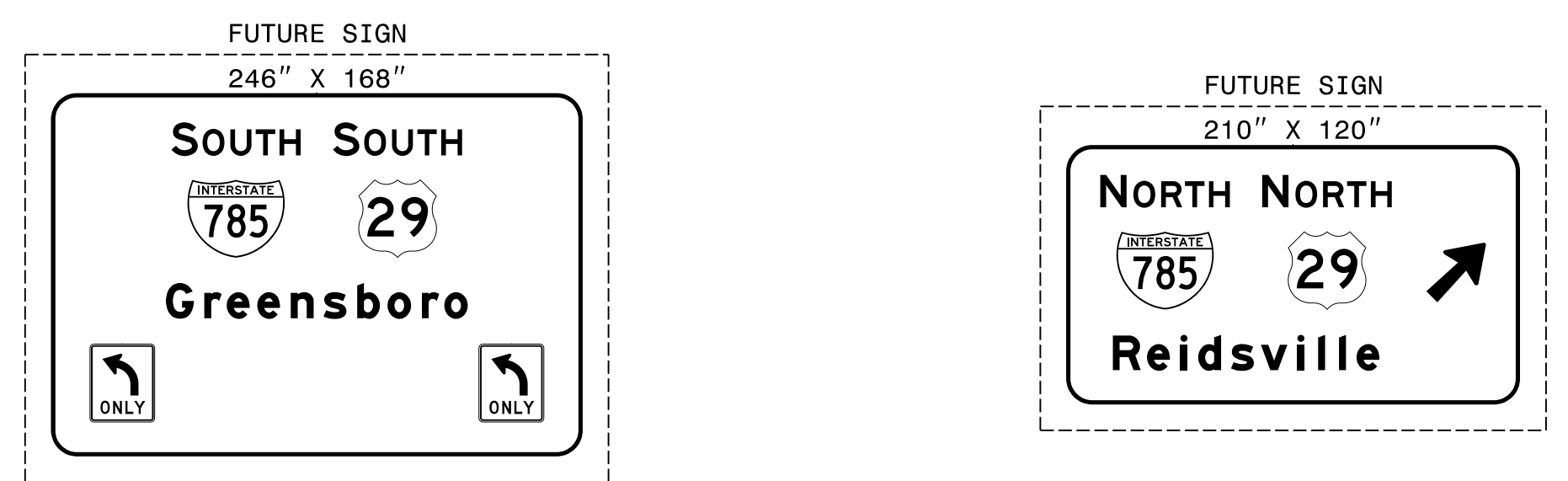
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**OVERHEAD SIGN  
 ASSEMBLY "E"  
 -Y- STA. 42+44**

PROJECT REFERENCE NO.	SHEET NO.
R-4707	SIGN-4J
APPROVED: <i>David T. Sears</i> DocuSigned by: 3855FB0D64B4A58	
DATE: 4/16/2020	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

**NOTES:**


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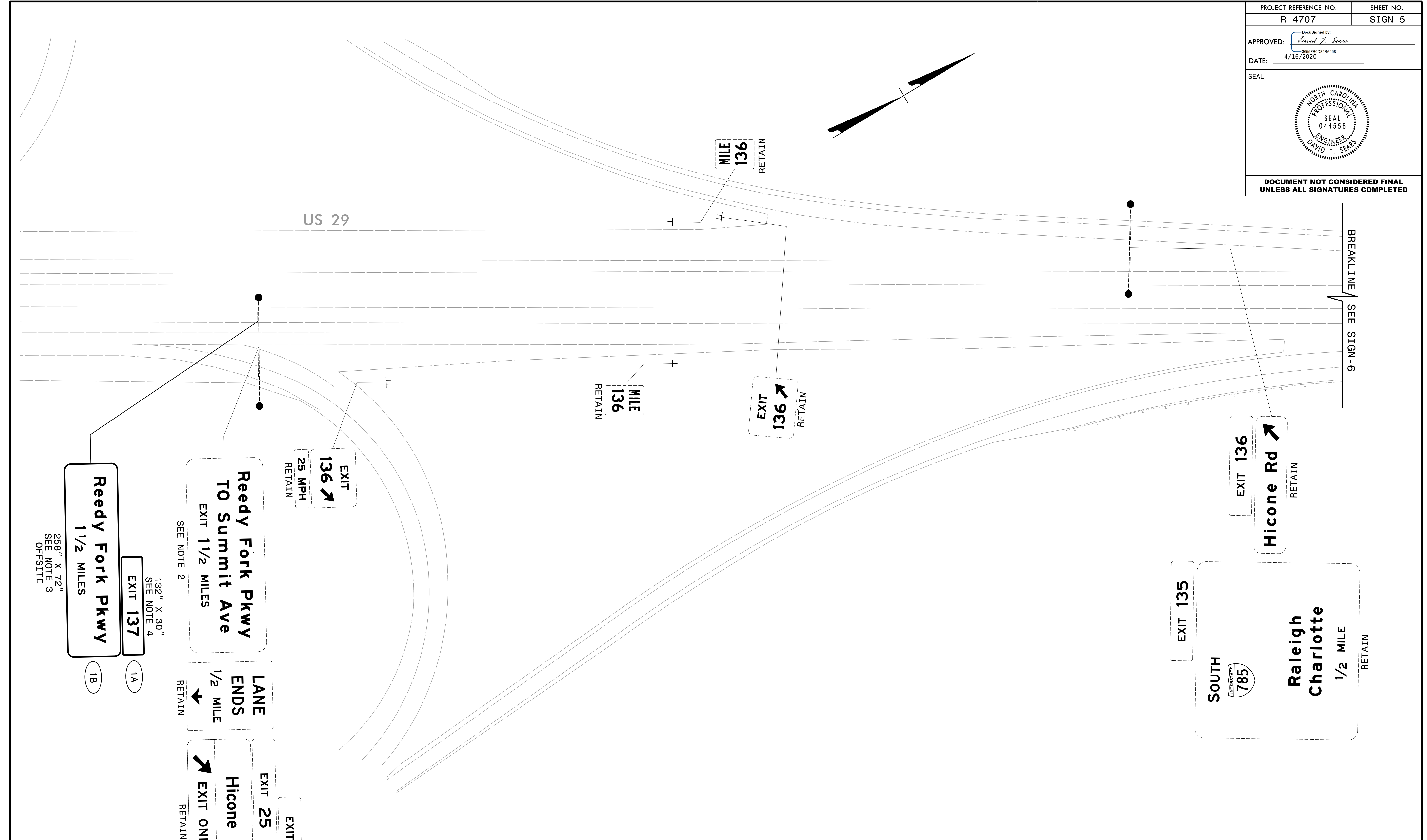


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**OVERHEAD SIGN ASSEMBLY "F"**  
**-Y- STA. 46+80**



PROJECT REFERENCE NO. R-4707	SHEET NO. SIGN-5
APPROVED: <i>David T. Sears</i> DATE: 4/16/2020	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



Reedy Fork Pkwy  
1 1/2 MILES

258" X 72"  
SEE NOTE 3  
OFF-SITE

EXIT 137

132" X 30"  
SEE NOTE 4

1A

1B

Reedy Fork Pkwy  
TO Summit Ave  
EXIT 1 1/2 MILES

SEE NOTE 2

LANE ENDS  
1/2 MILE

EXIT 136  
25 MPH

EXIT 136  
25 MPH

Hicone Rd  
EXIT ONLY

MILE 136  
RETAIN

MILE 136  
RETAIN

EXIT 136

EXIT 136  
Hicone Rd

EXIT 135

SOUTH

INTERSTATE 785

Raleigh  
Charlotte

1/2 MILE

**PROJECT NOTES**

- 1 DISPOSAL OF SIGN SYSTEM, STEEL BEAM
- 2 DISPOSAL OF SIGN, A OR B (OVERHEAD)
- 3 SIGN ERECTION, TYPE A (OVERHEAD)
- 4 SIGN ERECTION, TYPE B (OVERHEAD)
- 5 SIGN ERECTION, TYPE A (GROUND MOUNTED)
- 6 SIGN ERECTION, TYPE B (GROUND MOUNTED)
- 7 SIGN ERECTION, TYPE D, E, AND F
- 8 SIGN ERECTION, MILEMARKER

**PROPOSED SIGNS  
US 29 OFFSITE**

**RK&K**

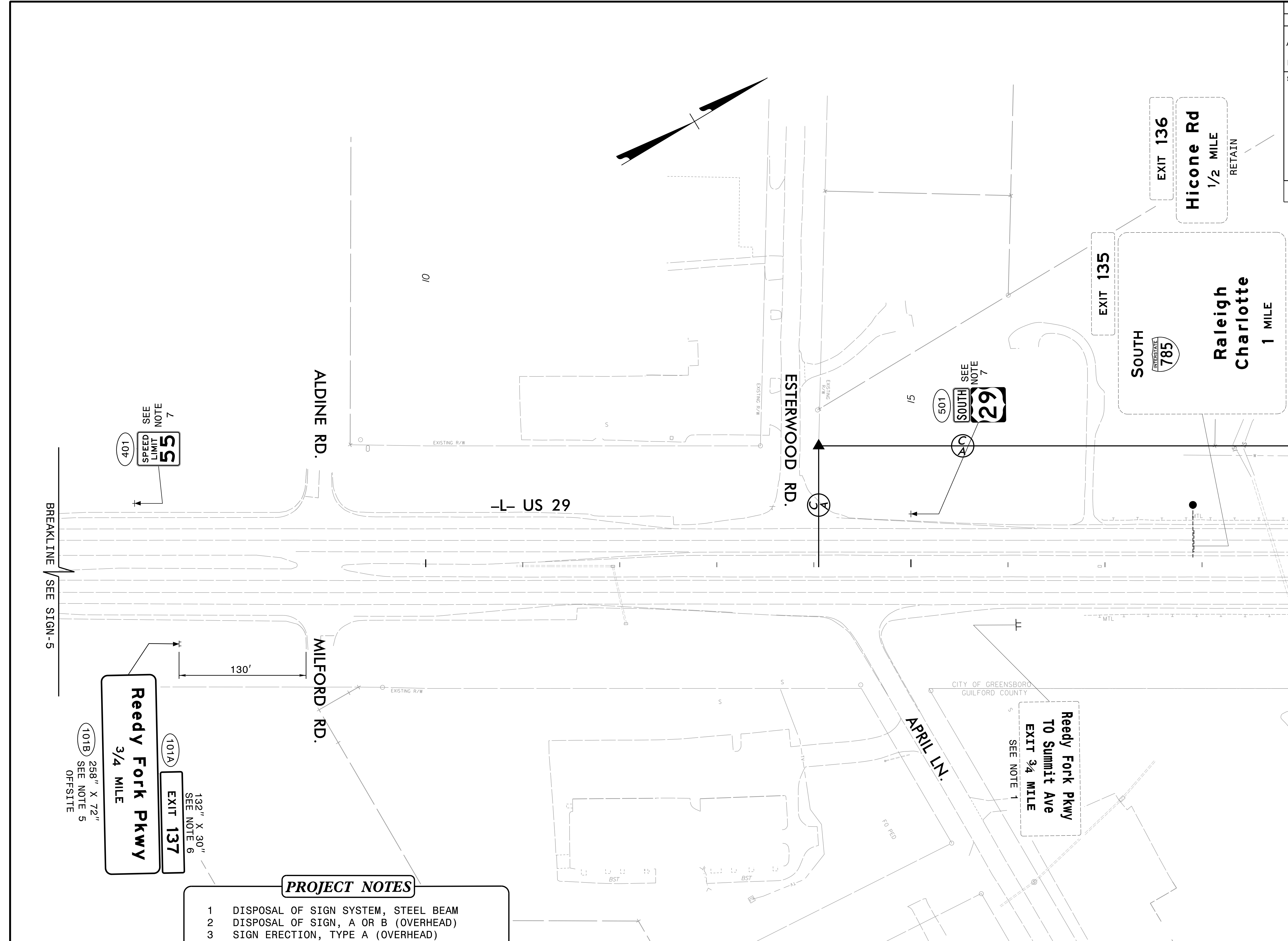
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# 2020 04 16 10 48 AM

PROJECT REFERENCE NO. R-4707	SHEET NO. SIGN-6
APPROVED: <i>David J. Sears</i> 4/16/2020	
SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 044558 DAVID T. SEARS	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



- PROJECT NOTES**
- 1 DISPOSAL OF SIGN SYSTEM, STEEL BEAM
  - 2 DISPOSAL OF SIGN, A OR B (OVERHEAD)
  - 3 SIGN ERECTION, TYPE A (OVERHEAD)
  - 4 SIGN ERECTION, TYPE B (OVERHEAD)
  - 5 SIGN ERECTION, TYPE A (GROUND MOUNTED)
  - 6 SIGN ERECTION, TYPE B (GROUND MOUNTED)
  - 7 SIGN ERECTION, TYPE D, E, AND F
  - 8 SIGN ERECTION, MILEMARKER

**PROPOSED SIGNS**  
US 29 OFFSITE TO -L- STA. 19+50

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BREAKLINE SEE SIGN-5


MATCHLINE -L- STA 19+50 SEE SIGN-7

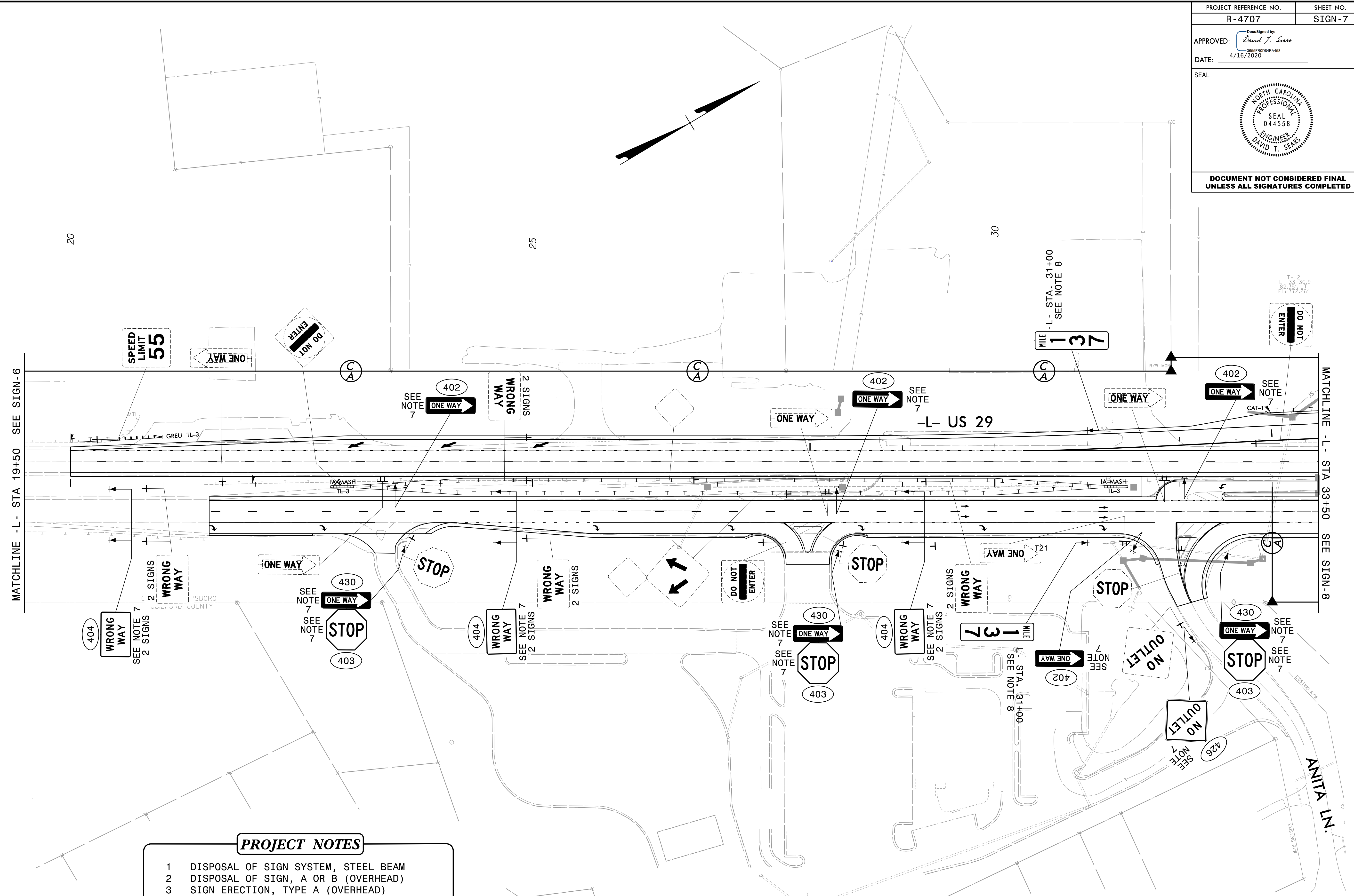
101B 258" X 72" SEE NOTE 5 OFFSITE

101A 132" X 30" SEE NOTE 6  
**EXIT 137**  
**Reedy Fork Pkwy**  
**3/4 MILE**

SEE NOTE 1  
**Reedy Fork Pkwy**  
**TO Summit Ave**  
**EXIT 3/4 MILE**



PROJECT REFERENCE NO. R-4707	SHEET NO. SIGN-7
APPROVED: <i>David T. Sears</i> 4/16/2020	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



**PROJECT NOTES**


- 1 DISPOSAL OF SIGN SYSTEM, STEEL BEAM
- 2 DISPOSAL OF SIGN, A OR B (OVERHEAD)
- 3 SIGN ERECTION, TYPE A (OVERHEAD)
- 4 SIGN ERECTION, TYPE B (OVERHEAD)
- 5 SIGN ERECTION, TYPE A (GROUND MOUNTED)
- 6 SIGN ERECTION, TYPE B (GROUND MOUNTED)
- 7 SIGN ERECTION, TYPE D, E, AND F
- 8 SIGN ERECTION, MILEMARKER

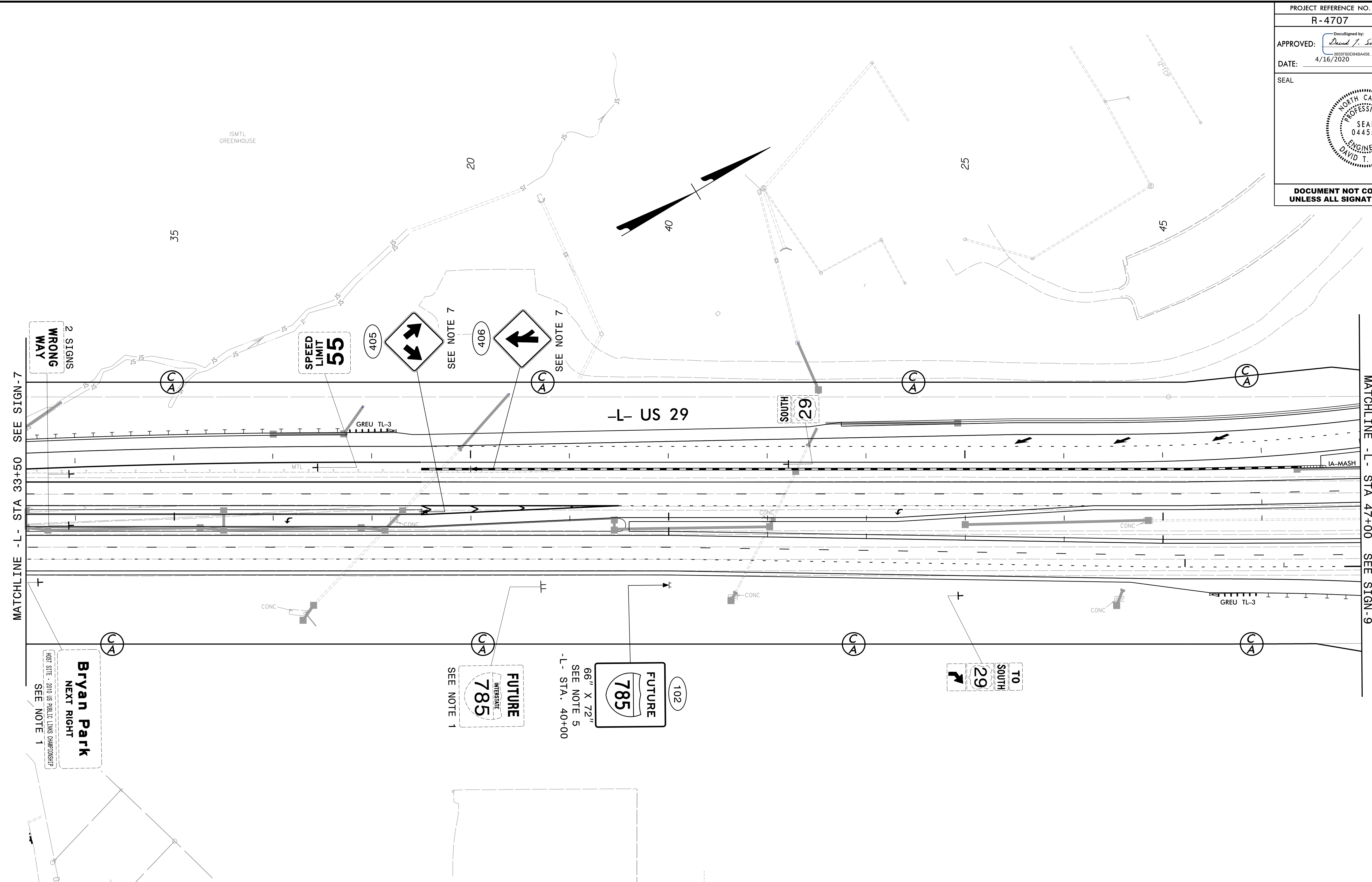
**PROPOSED SIGNS**  
US 29 -L- STA 19+50 to 33+50

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# 05/21/20



PROJECT REFERENCE NO. R-4707	SHEET NO. SIGN-8
APPROVED: <i>David T. Sears</i> DATE: 4/16/2020	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



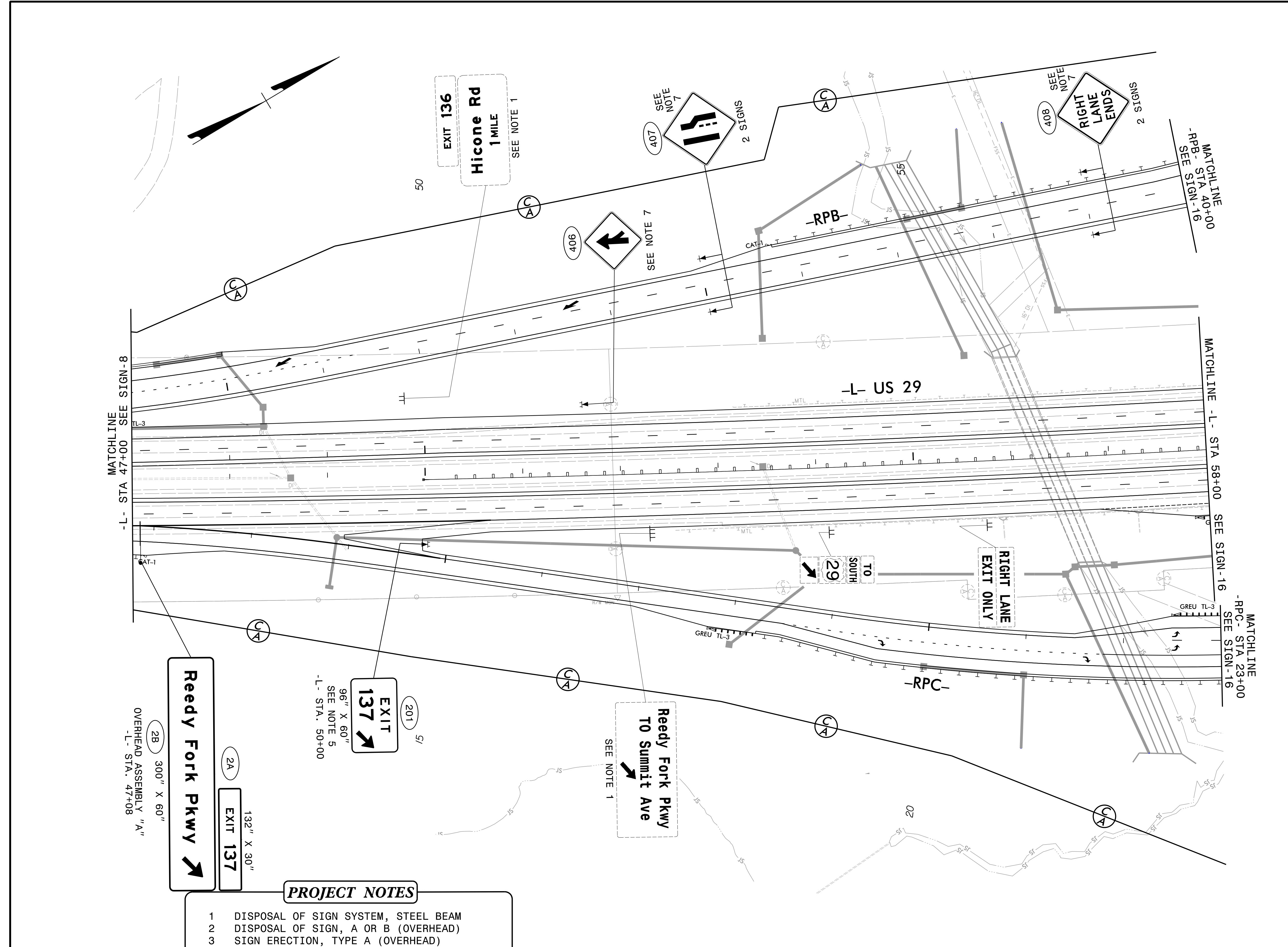
- PROJECT NOTES**
- DISPOSAL OF SIGN SYSTEM, STEEL BEAM
  - DISPOSAL OF SIGN, A OR B (OVERHEAD)
  - SIGN ERECTION, TYPE A (OVERHEAD)
  - SIGN ERECTION, TYPE B (OVERHEAD)
  - SIGN ERECTION, TYPE A (GROUND MOUNTED)
  - SIGN ERECTION, TYPE B (GROUND MOUNTED)
  - SIGN ERECTION, TYPE D, E, AND F
  - SIGN ERECTION, MILEMARKER

**PROPOSED SIGNS**  
US 29 -L- STA 33+50 to 47+00

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DATE PLOTTED: 4/16/2020 10:58 AM

PROJECT REFERENCE NO. R-4707	SHEET NO. SIGN-9
APPROVED: <i>David T. Sears</i> 4/16/2020	
SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 044558 DAVID T. SEARS	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

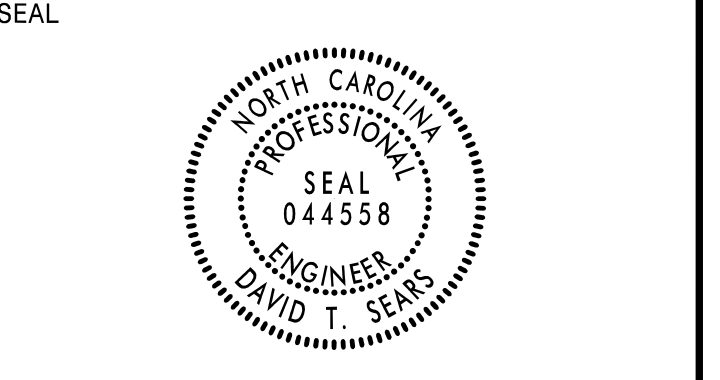


- PROJECT NOTES**
- DISPOSAL OF SIGN SYSTEM, STEEL BEAM
  - DISPOSAL OF SIGN, A OR B (OVERHEAD)
  - SIGN ERECTION, TYPE A (OVERHEAD)
  - SIGN ERECTION, TYPE B (OVERHEAD)
  - SIGN ERECTION, TYPE A (GROUND MOUNTED)
  - SIGN ERECTION, TYPE B (GROUND MOUNTED)
  - SIGN ERECTION, TYPE D, E, AND F
  - SIGN ERECTION, MILEMARKER

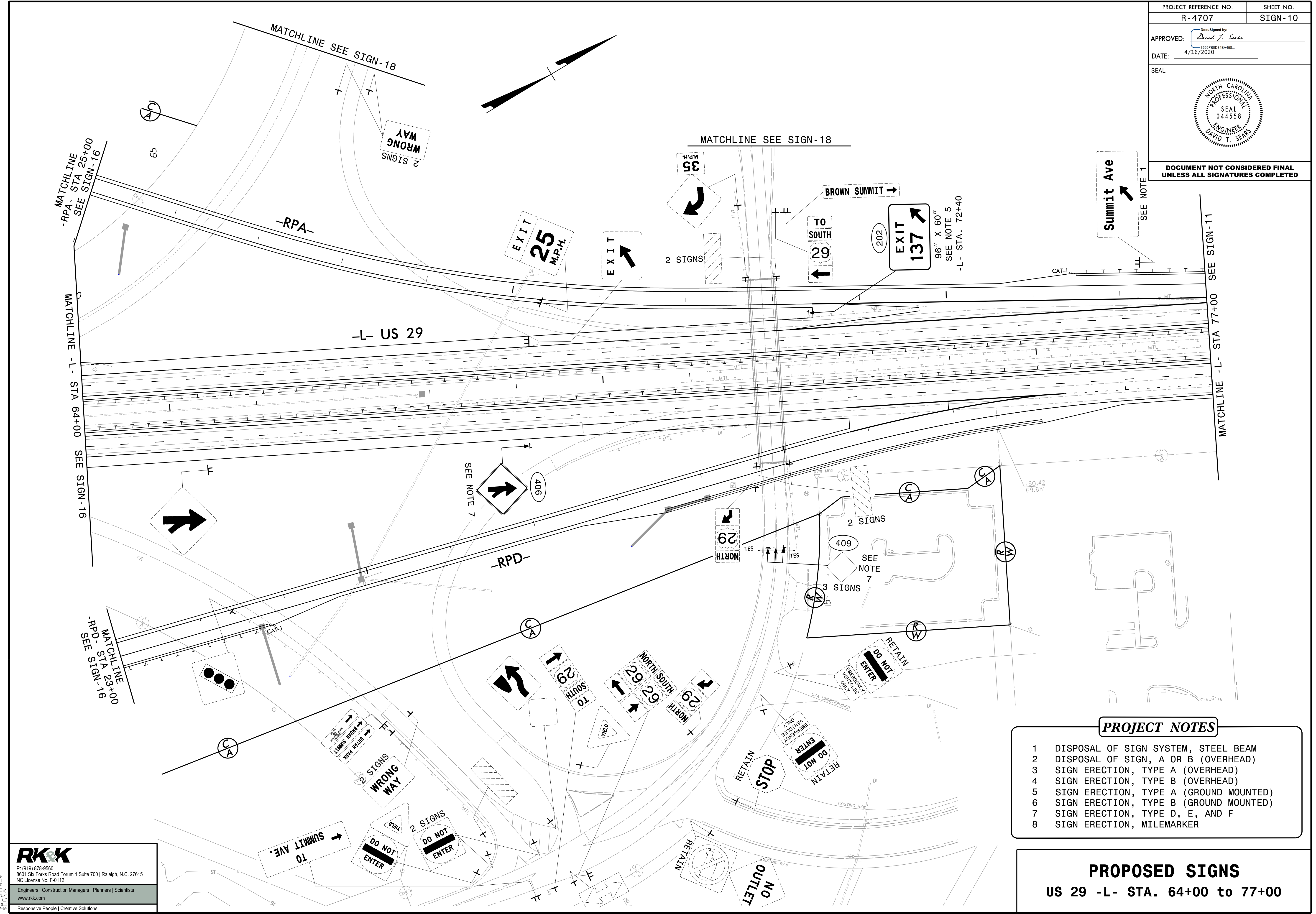
**PROPOSED SIGNS**  
US 29 -L- STA. 47+00 to 58+00

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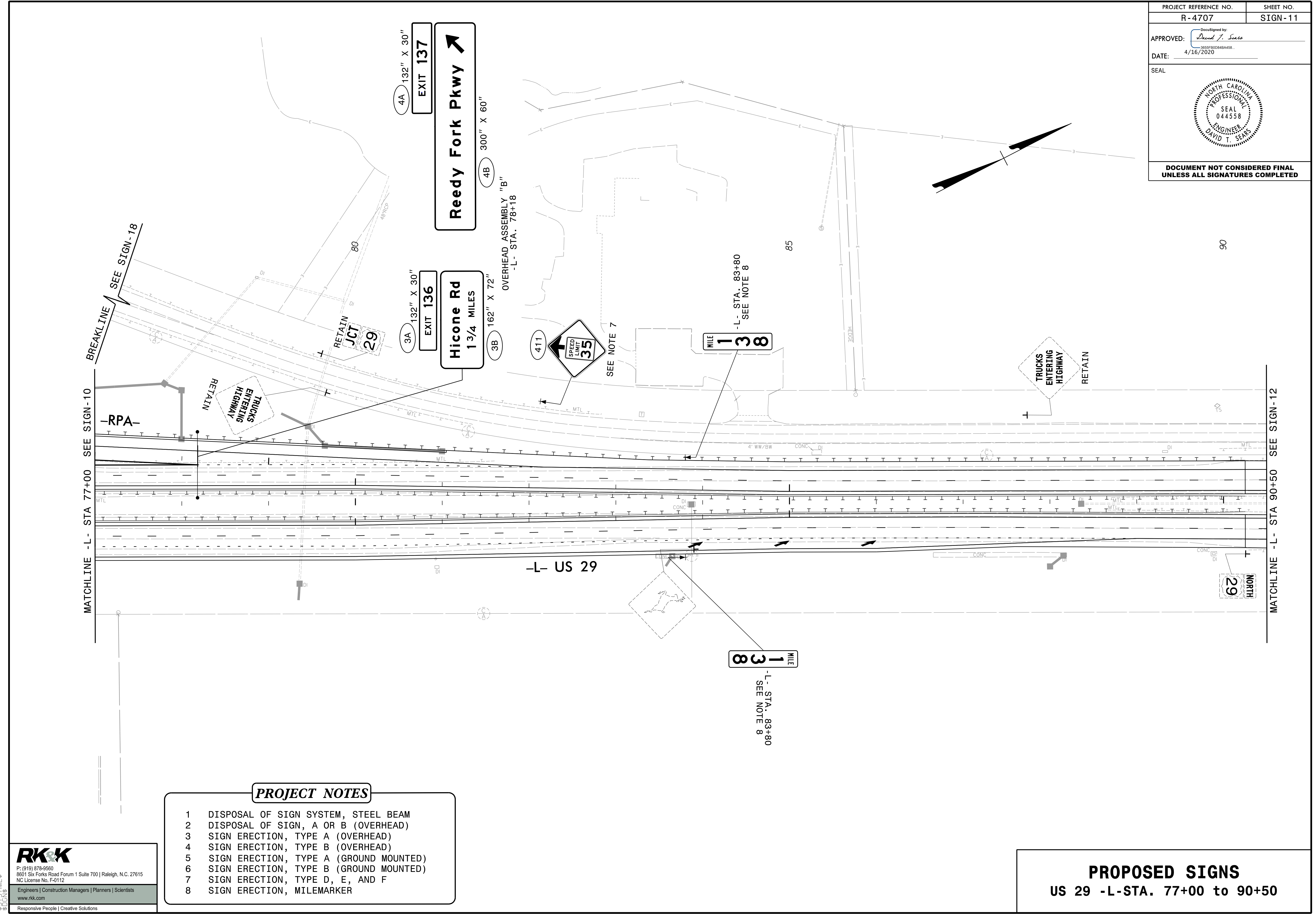
- PROJECT NOTES**
- DISPOSAL OF SIGN SYSTEM, STEEL BEAM
  - DISPOSAL OF SIGN, A OR B (OVERHEAD)
  - SIGN ERECTION, TYPE A (OVERHEAD)
  - SIGN ERECTION, TYPE B (OVERHEAD)
  - SIGN ERECTION, TYPE A (GROUND MOUNTED)
  - SIGN ERECTION, TYPE B (GROUND MOUNTED)
  - SIGN ERECTION, TYPE D, E, AND F
  - SIGN ERECTION, MILEMARKER

**PROPOSED SIGNS**  
US 29 -L- STA. 64+00 to 77+00

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PROJECT REFERENCE NO. R-4707	SHEET NO. SIGN-11
APPROVED: <i>David T. Sears</i> DATE: 4/16/2020	
SEAL 	
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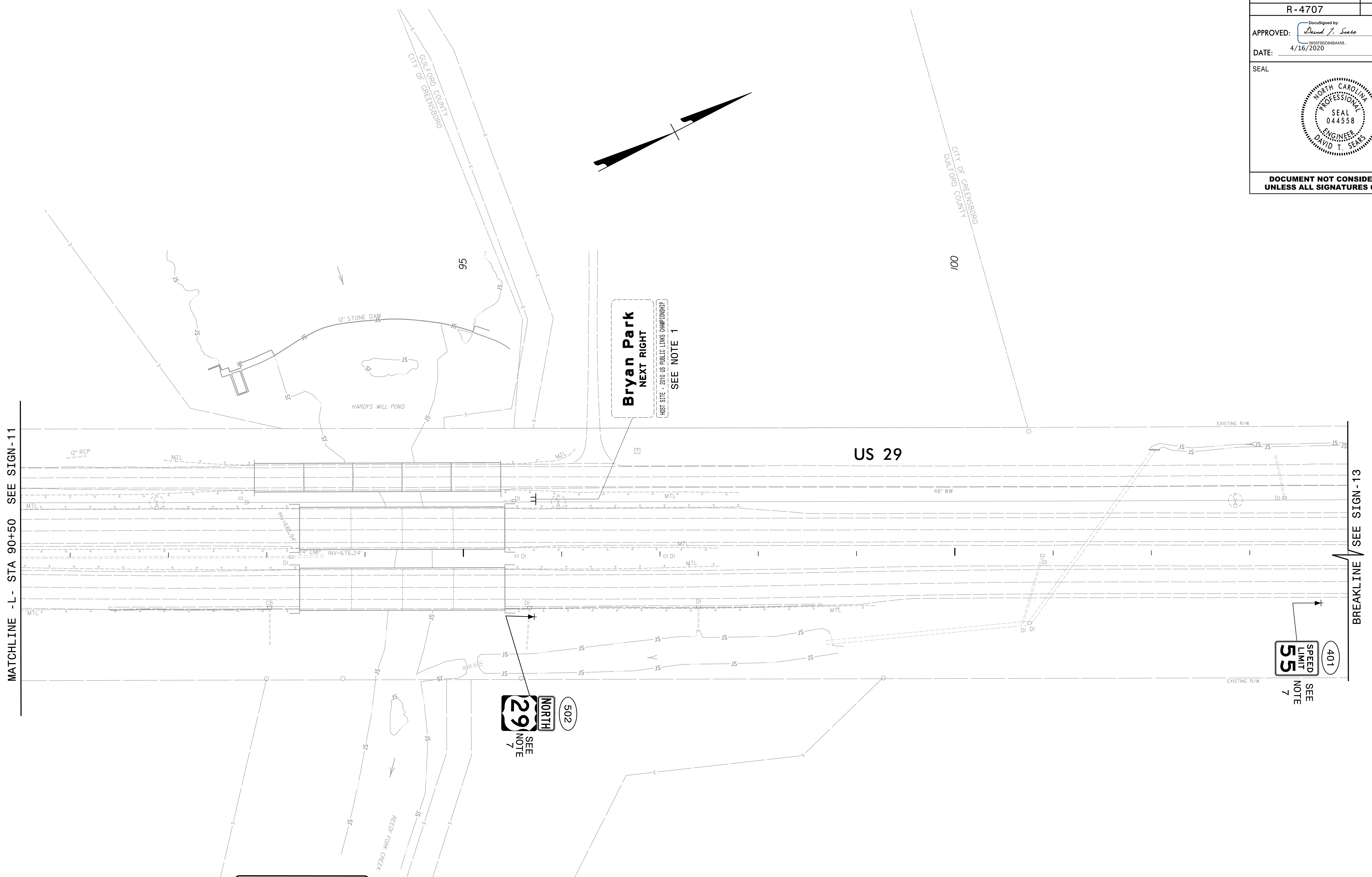


- PROJECT NOTES**
- 1 DISPOSAL OF SIGN SYSTEM, STEEL BEAM
  - 2 DISPOSAL OF SIGN, A OR B (OVERHEAD)
  - 3 SIGN ERECTION, TYPE A (OVERHEAD)
  - 4 SIGN ERECTION, TYPE B (OVERHEAD)
  - 5 SIGN ERECTION, TYPE A (GROUND MOUNTED)
  - 6 SIGN ERECTION, TYPE B (GROUND MOUNTED)
  - 7 SIGN ERECTION, TYPE D, E, AND F
  - 8 SIGN ERECTION, MILEMARKER

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**PROPOSED SIGNS**  
 US 29 -L- STA. 77+00 to 90+50

PROJECT REFERENCE NO. R-4707	SHEET NO. SIGN - 12
APPROVED: <i>David T. Sears</i> 3055FB0D84BA458	
DATE: 4/16/2020	
SEAL	
	
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**PROJECT NOTES**

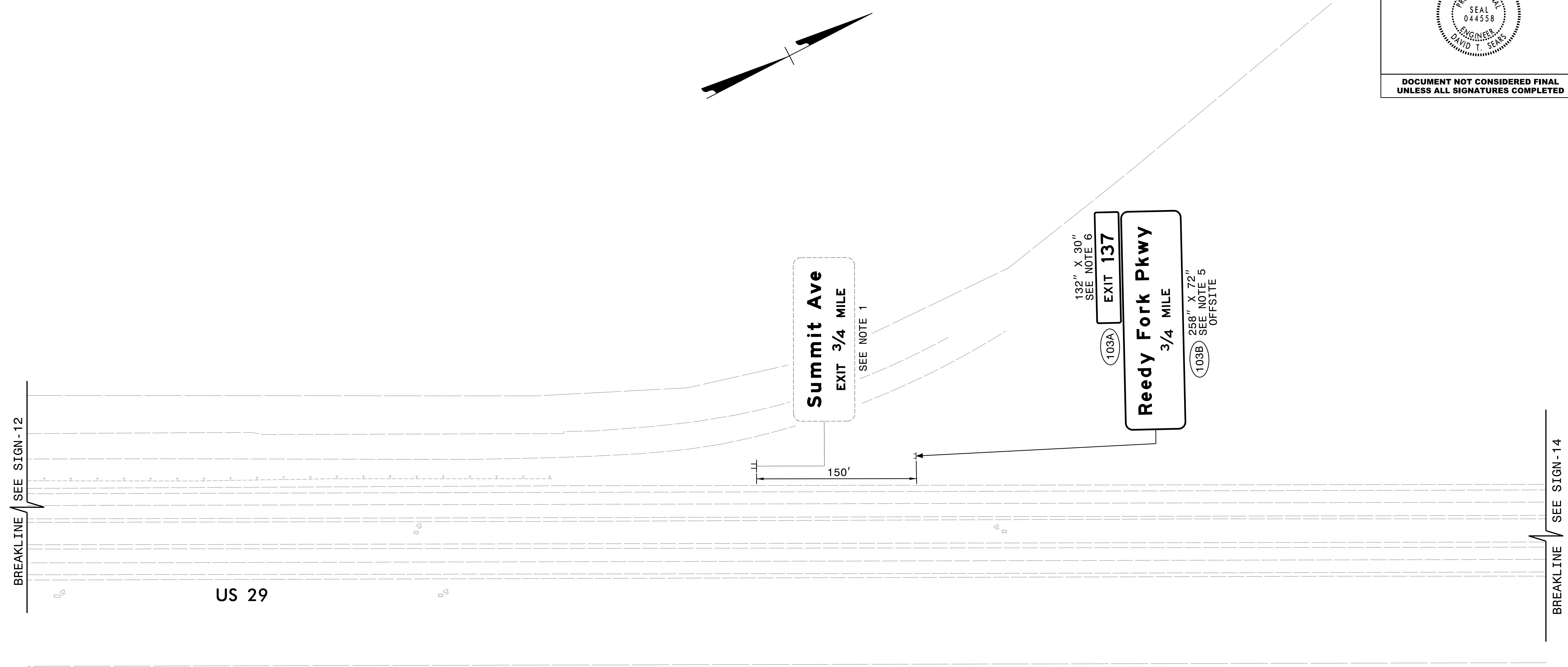
- 1 DISPOSAL OF SIGN SYSTEM, STEEL BEAM
- 2 DISPOSAL OF SIGN, A OR B (OVERHEAD)
- 3 SIGN ERECTION, TYPE A (OVERHEAD)
- 4 SIGN ERECTION, TYPE B (OVERHEAD)
- 5 SIGN ERECTION, TYPE A (GROUND MOUNTED)
- 6 SIGN ERECTION, TYPE B (GROUND MOUNTED)
- 7 SIGN ERECTION, TYPE D, E, AND F
- 8 SIGN ERECTION, MILEMARKER

**PROPOSED SIGNS  
US 29 OFFSITE**

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# 502 11/16/20

PROJECT REFERENCE NO. R-4707	SHEET NO. SIGN-13
APPROVED: <i>David T. Sears</i> DATE: 4/16/2020	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	




**PROJECT NOTES**

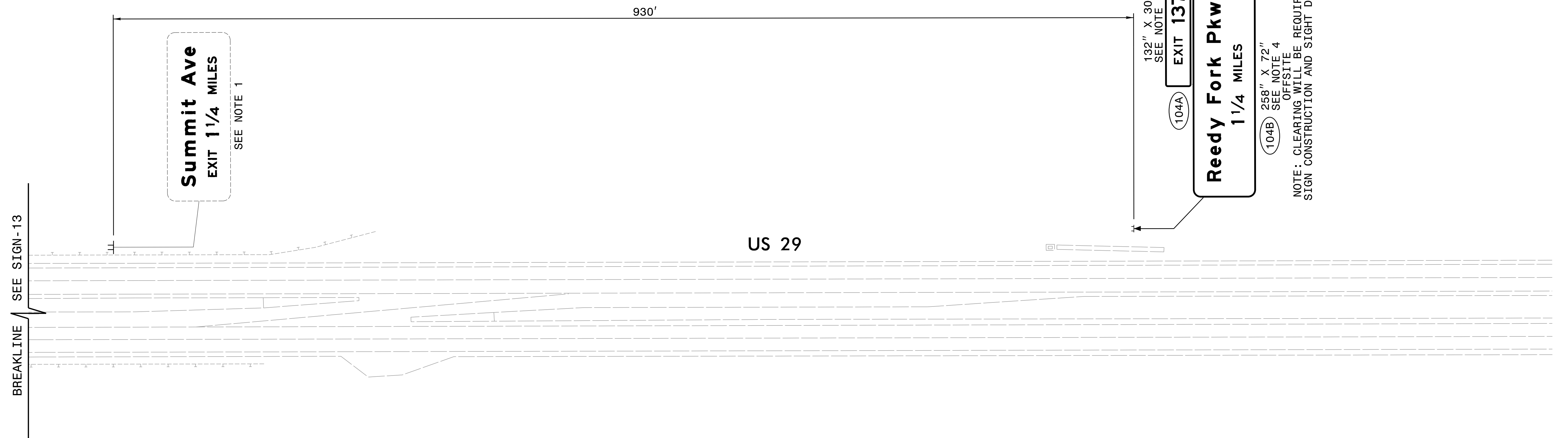
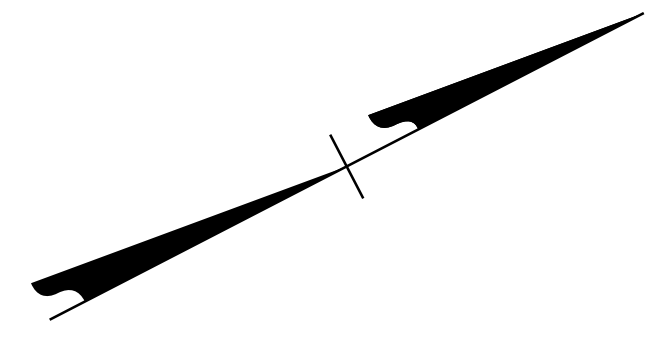
- 1 DISPOSAL OF SIGN SYSTEM, STEEL BEAM
- 2 DISPOSAL OF SIGN, A OR B (OVERHEAD)
- 3 SIGN ERECTION, TYPE A (OVERHEAD)
- 4 SIGN ERECTION, TYPE B (OVERHEAD)
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- 6 SIGN ERECTION, TYPE B (GROUND MOUNTED)
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- 8 SIGN ERECTION, MILEMARKER

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**PROPOSED SIGNS  
US 29 OFFSITE**



PROJECT REFERENCE NO. R-4707	SHEET NO. SIGN-14
APPROVED: <i>David T. Sears</i> DATE: 4/16/2020	
SEAL 	
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**PROJECT NOTES**

- 1 DISPOSAL OF SIGN SYSTEM, STEEL BEAM
- 2 DISPOSAL OF SIGN, A OR B (OVERHEAD)
- 3 SIGN ERECTION, TYPE A (OVERHEAD)
- 4 SIGN ERECTION, TYPE B (OVERHEAD)
- 5 SIGN ERECTION, TYPE A (GROUND MOUNTED)
- 6 SIGN ERECTION, TYPE B (GROUND MOUNTED)
- 7 SIGN ERECTION, TYPE D, E, AND F
- 8 SIGN ERECTION, MILEMARKER

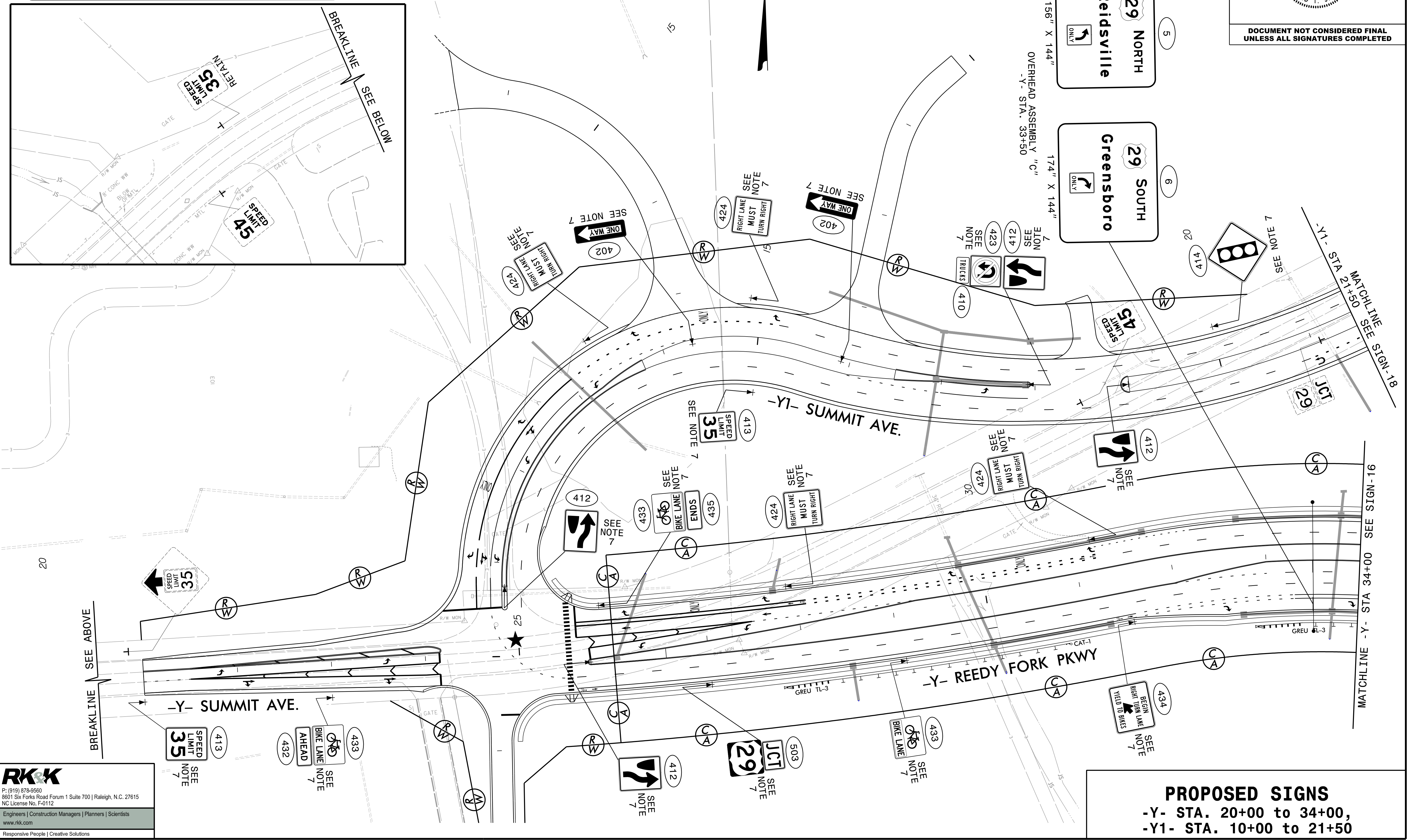
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**PROPOSED SIGNS  
US 29 OFFSITE**

PROJECT REFERENCE NO. R-4707	SHEET NO. SIGN-15
APPROVED: <i>David T. Sears</i> 4/16/2020	
SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 044558 DAVID T. SEARS	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

**PROJECT NOTES**


- DISPOSAL OF SIGN SYSTEM, STEEL BEAM
- DISPOSAL OF SIGN, A OR B (OVERHEAD)
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- SIGN ERECTION, TYPE B (OVERHEAD)
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- SIGN ERECTION, TYPE B (GROUND MOUNTED)
- SIGN ERECTION, TYPE D, E, AND F
- SIGN ERECTION, MILEMARKER

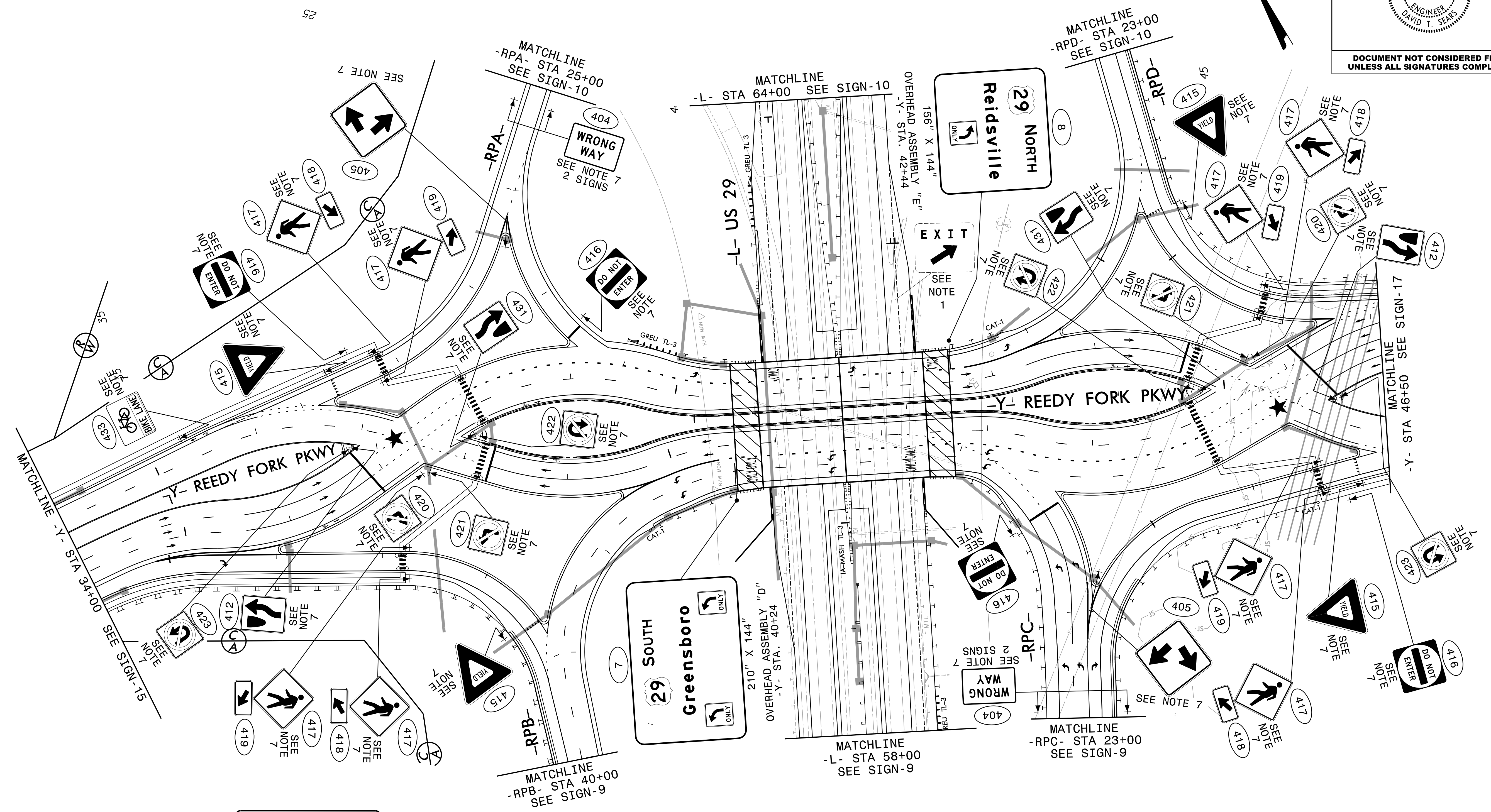


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**PROPOSED SIGNS**  
 -Y- STA. 20+00 to 34+00,  
 -Y1- STA. 10+00 to 21+50



PROJECT REFERENCE NO. R-4707	SHEET NO. SIGN-16
APPROVED: <i>David T. Sears</i> 4/16/2020	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



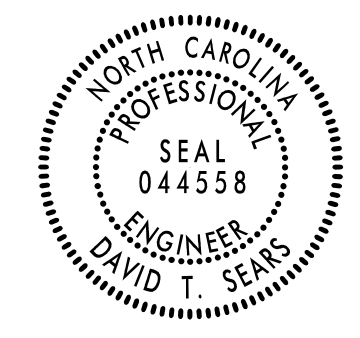
**PROJECT NOTES**

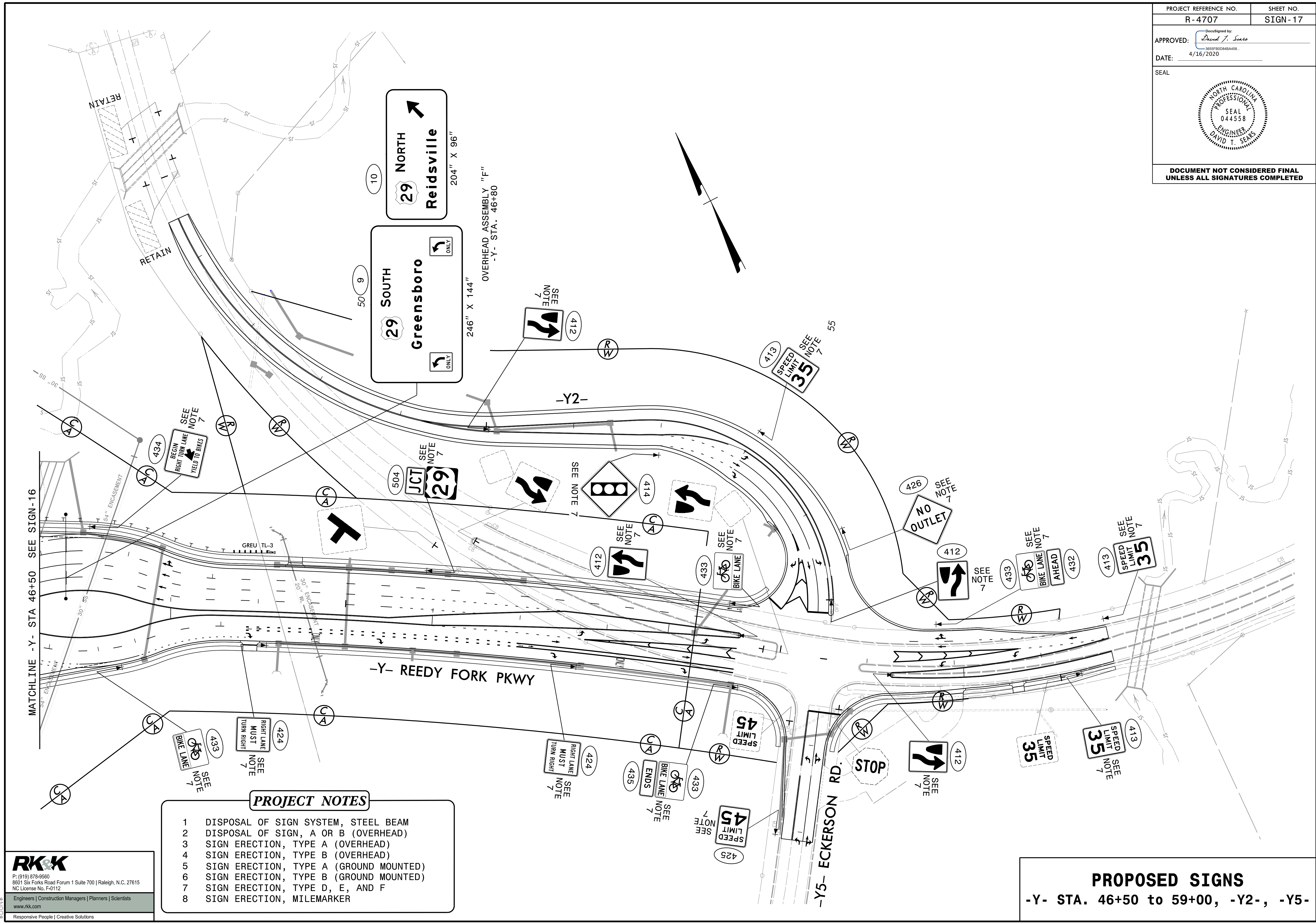
- 1 DISPOSAL OF SIGN SYSTEM, STEEL BEAM
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- 4 SIGN ERECTION, TYPE B (OVERHEAD)
- 5 SIGN ERECTION, TYPE A (GROUND MOUNTED)
- 6 SIGN ERECTION, TYPE B (GROUND MOUNTED)
- 7 SIGN ERECTION, TYPE D, E, AND F
- 8 SIGN ERECTION, MILEMARKER

**PROPOSED SIGNS**  
 -Y- STA. 34+00 to 46+50,  
 -RPA-, -RPB-, -RPC-, -RPD-,  
 US 29 -L- STA. 58+00 to 64+00

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PROJECT REFERENCE NO. R-4707	SHEET NO. SIGN-17
APPROVED: <i>David T. Sears</i> 4/16/2020	
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	




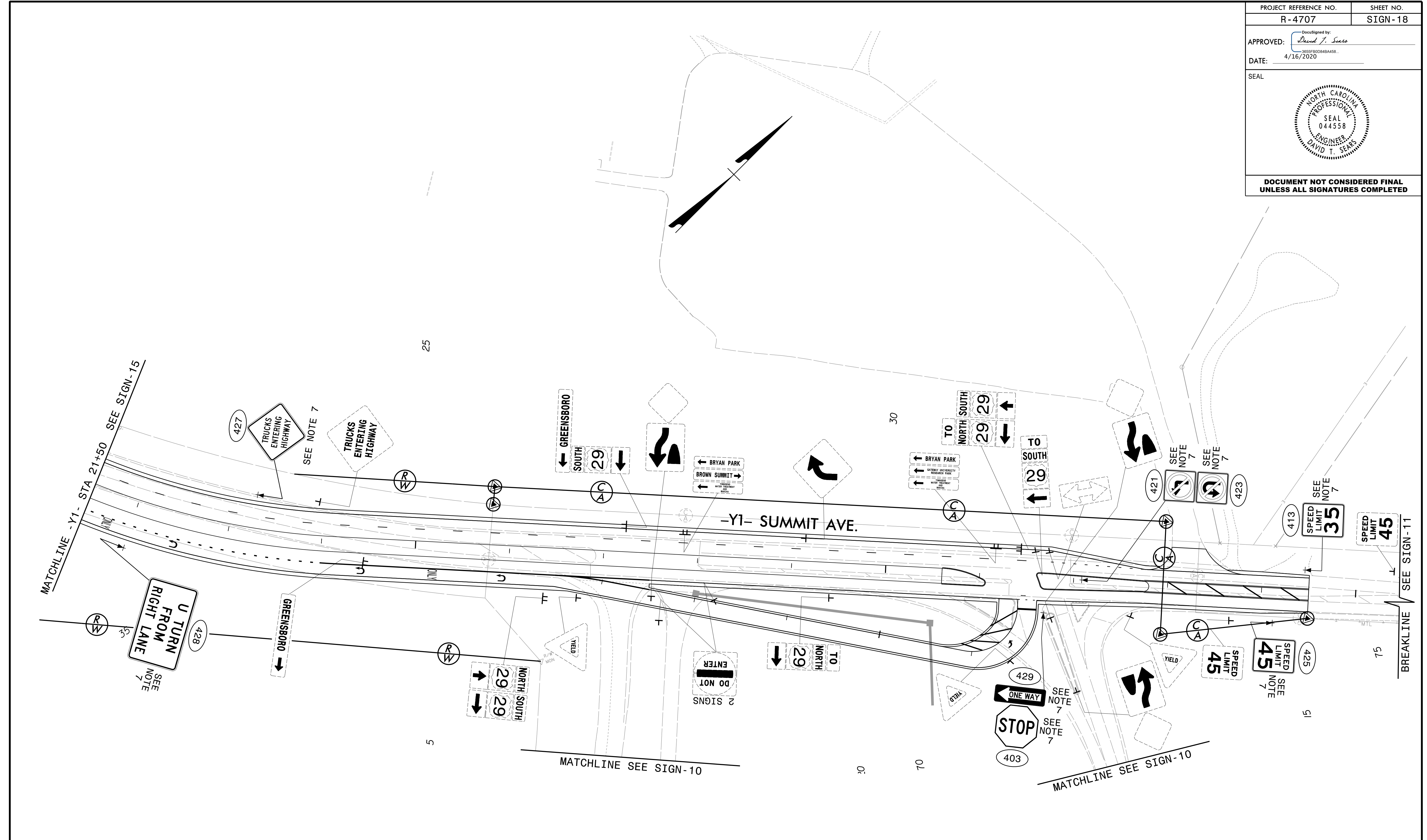
- PROJECT NOTES**
- 1 DISPOSAL OF SIGN SYSTEM, STEEL BEAM
  - 2 DISPOSAL OF SIGN, A OR B (OVERHEAD)
  - 3 SIGN ERECTION, TYPE A (OVERHEAD)
  - 4 SIGN ERECTION, TYPE B (OVERHEAD)
  - 5 SIGN ERECTION, TYPE A (GROUND MOUNTED)
  - 6 SIGN ERECTION, TYPE B (GROUND MOUNTED)
  - 7 SIGN ERECTION, TYPE D, E, AND F
  - 8 SIGN ERECTION, MILEMARKER

**PROPOSED SIGNS**  
-Y- STA. 46+50 to 59+00, -Y2-, -Y5-

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PROJECT REFERENCE NO. R-4707	SHEET NO. SIGN-18
APPROVED: <i>David T. Sears</i> 4/16/2020	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



**PROJECT NOTES**

- 1 DISPOSAL OF SIGN SYSTEM, STEEL BEAM
- 2 DISPOSAL OF SIGN, A OR B (OVERHEAD)
- 3 SIGN ERECTION, TYPE A (OVERHEAD)
- 4 SIGN ERECTION, TYPE B (OVERHEAD)
- 5 SIGN ERECTION, TYPE A (GROUND MOUNTED)
- 6 SIGN ERECTION, TYPE B (GROUND MOUNTED)
- 7 SIGN ERECTION, TYPE D, E, AND F
- 8 SIGN ERECTION, MILEMARKER

**PROPOSED SIGNS**  
-Y1- STA. 21+50 to 35+00

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