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CONTRACT NO.: C204130

LOCATION: US 23/441 (GEORGIA RD) FROM SR 1652 (WIDE HORIZON RD)/SR 1152 (BELDEN CIRCLE) TO US 64

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>
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
903.10	GROUND MOUNTED SIGN SUPPORTS
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.30	SUPPLEMENTAL SIGN MOUNTING
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS
910.30	SIGNING FOR SUPERSTREETS
910.50	SIGNING FOR SPEED REDUCTION ZONE

- . 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.
- . 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.
- . DO NOT BEGIN FABRICATION FOR TYPES A & B SIGNS MOUNTED ON OVERHEAD STRUCTURES OR STEEL SUPPORTS UNTIL 'S' DIMENSIONS HAVE BEEN FIELD VERIFIED.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4048000000	902	REINFORCED CONCRETE SIGN FOUNDATIONS.....	3	CY
4054000000	902	PLAIN CONCRETE SIGN FOUNDATIONS.....	1	CY
4057000000	SP	OVERHEAD FOOTING.....	49	CY
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAM.....	3,159	LB
4066000000	903	SUPPORTS, SIMPLE STEEL BEAM.....	415	LB
4072000000	903	SUPPORTS, 3-LB STEEL U-CHANNEL.....	2,250	LF
4082100000	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT -L- STA 69+00.....	1	LS
4082100000	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT -LPD- STA 13+25.....	1	LS
4096000000	904	SIGN ERECTION, TYPE D.....	13	EA
4102000000	904	SIGN ERECTION, TYPE E.....	118	EA
4108000000	904	SIGN ERECTION, TYPE F.....	13	EA
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED).....	4	EA
4116100000	904	SIGN ERECTION, RELOCATE TYPE A (GROUND MOUNTED).....	1	EA
4116100000	904	SIGN ERECTION, RELOCATE TYPE B (GROUND MOUNTED).....	1	EA
4116100000	904	SIGN ERECTION, RELOCATE TYPE D (GROUND MOUNTED).....	2	EA
4116100000	904	SIGN ERECTION, RELOCATE TYPE E (GROUND MOUNTED).....	2	EA
4116100000	904	SIGN ERECTION, RELOCATE TYPE F (GROUND MOUNTED).....	2	EA
4138000000	907	DISPOSAL OF SUPPORT, STEEL BEAM.....	1	EA
4152000000	907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM.....	1	EA
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL.....	80	EA
4192000000	907	DISPOSAL OF SUPPORT, U-CHANNEL.....	1	EA
4360000000	SP	DISPOSAL OF SIGN SYSTEM ON SPAN WIRE.....	1	EA

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
SIGN-1	TITLE SHEET
SIGN-2	SUPPORT CHART
SIGN-3-3A	OVERHEAD DETAIL
SIGN-4-4E	SIGN DESIGNS
SIGN-5	TYPE 'E' SIGNS
SIGN-5A	TYPE 'F' SIGNS
SIGN-6-11	SIGNING PLAN SHEETS

TIP NO. R-5734A		SHEET NO. SIGN-1
Drawn by: APPROVED: 		
DATE: 6/27/2018		
SEAL		
		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

PLAN PREPARED BY:		 Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel: (919) 851-0860 Fax: (919) 851-7024 www.stantec.com License No. F-0672
<u>BETSY L. WATSON, P.E.</u>	SENIOR TRANSPORTATION ENGINEER	
<u>ROSI R. HENNEIN</u>	TRANSPORTATION DESIGNER	

TIP NO.
R-5734A

SHEET NO.
SIGN-2

APPROVED:

DESIGNED BY:

Betsy L. Watson

DATE:

5/31/2018

SEAL

NORTH CAROLINA
PROFESSIONAL
SEAL
29449
ENGINEER
BETSY L. WATSON

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Stantec

TYPE 'A' &'B' GROUND MOUNTED SIGNS

SUPPORT CHART

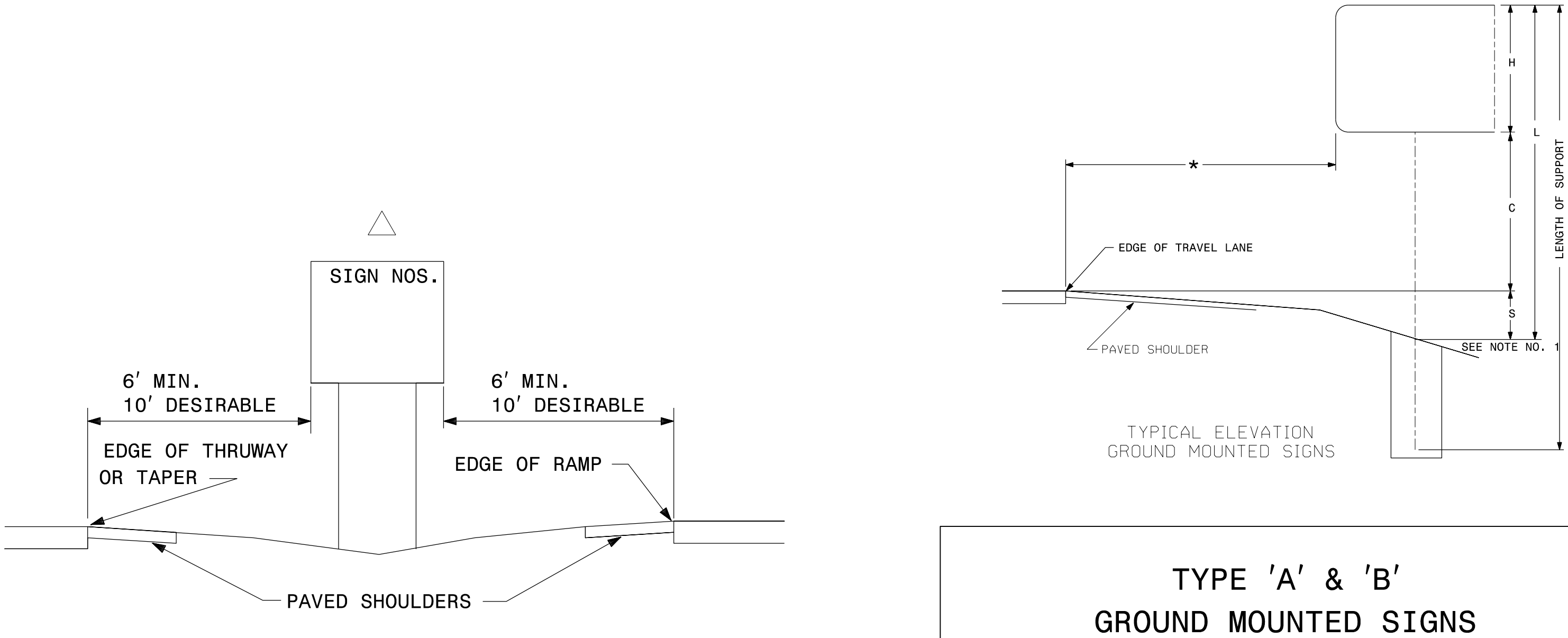
Version: 3.1

Posted: 6/2/2017

SIGN				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)		
													SNS HT	MTG HT	EMBED- MENT										B/A (lbs.)	SIMPLE (lbs.)	DIAMETER (ft.)	DEPTH (ft.)	REINFORCED (c.y.)	PLAIN (c.y.)			
NUMBER	TYPE	SIZE (in.)											w	x	h																		
101	A	156	x	126	-L- 62+40	2	W6x16	BA	N/A	N/A	18.00	7.62	10.50	11.95	4.0	-1.14	21.31	25.31	0.00	0.00	0.00	-4.95	17.50	21.50	842.96	0	1.5	4.5	0.59	0.00	_____		
102	A	156	x	114	-L- 66+00	2	W6x16	BA	N/A	N/A	16.00	7.62	9.50	7.00	4.0	1.10	17.60	21.60	0.00	0.00	0.00	3.01	19.51	23.51	815.76	0	1.5	4.5	0.59	0.00	_____		
103	A	156	x	144	-L- 74+50	2	W8x18	BA	N/A	N/A	30.00	7.62	12.00	7.00	4.0	4.18	23.18	27.18	0.00	0.00	0.00	5.79	24.79	28.79	1147.46	0	2.0	4.5	1.05	0.00	_____		
104	A	132	x	66	-L- 78+00	2	S4x7.7	S	N/A	N/A	20.00	6.45	5.50	7.00	3.0	0.39	12.89	15.89	0.00	0.00	0.00	0.71	13.21	16.21	0.00	247.17	1.0	3.5	0.00	0.20	_____		
901	B	90	x	30	-L- 43+50	2	S3x5.7	S	N/A	N/A	18.45	4.40	2.50	7.00	2.0	1.60	11.10	13.10	0.00	0.00	0.00	4.82	14.32	16.32	0.00	167.694	1.0	2.5	0.00	0.15	_____		
902A	A	90	x	72	-LPD- 12+00	2	S4x7.7	BA	N/A	N/A	18.00	4.40	8.00	7.00	3.5	1.58	16.58	20.08	0.00	0.00	0.00	1.94	16.94	20.44	352.00	0	1.0	4	0.00	0.23	_____		
902B	B	78	x	24																													
																										TOTAL	TOTAL		TOTAL		TOTAL		
																										3158.18	414.86		2.23		0.58		
																										USE:	3159.00	415.00		3.00		1.00	

NOTES

1. DIMENSION "S" REPRESENTS AN INCREASE (+), OR A DECREASE (-) IN POLE LENGTH, RELATIVE TO THE ELEVATION OF THE EDGE OF TRAVEL LANE.
2. 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
3. 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.



TIP NO.
R-5734A

SHEET NO.
SIGN-3

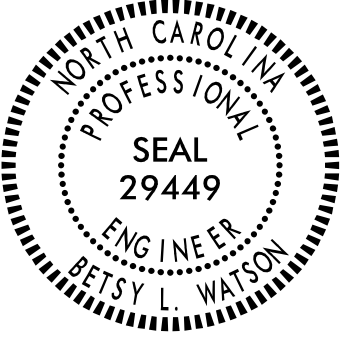
DocuSigned by:
Betsy L. Watson
39E67B834F5743F...

APPROVED:

5/31/2018

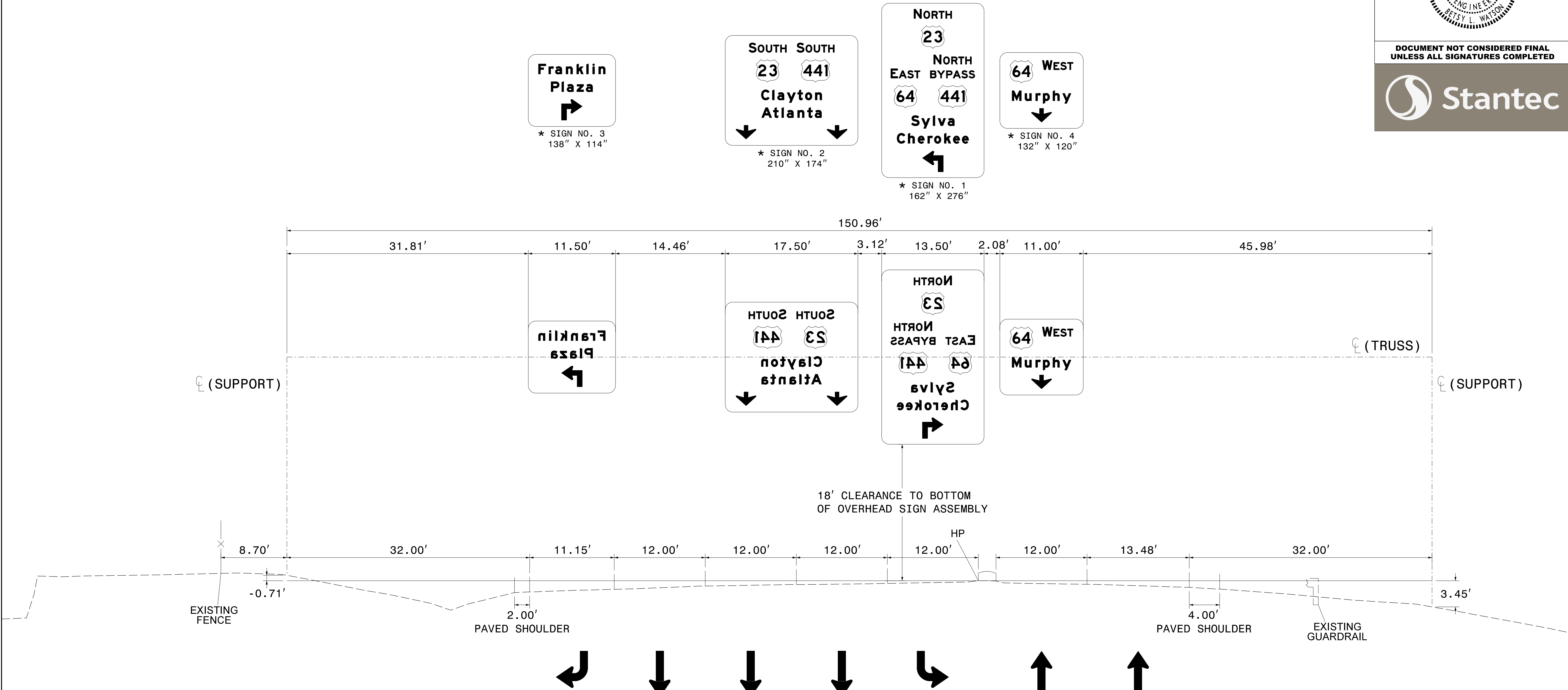
DATE:

SEAL



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UNLESS ALL SIGNATURES COMPLETED





NOTES:

- IF CONTRACTOR BIDS 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.
- FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. PROVIDE FIELD VERIFICATION TO THE SIGNING SECTION.
- THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 4 INCHES AND NOT MORE THAN 24 INCHES ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
- SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
- DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.

SOUTHBOUND US 23/US 441/GEORGIA RD

NORTHBOUND US 23/US 441/GEORGIA RD

* THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTINGS. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.

OVERHEAD SIGN ASSEMBLY 'A'
US 23/US 441/GEORGIA RD
-L- STA 69+00

TIP NO.
R-5734A

SHEET NO.
SIGN-3A

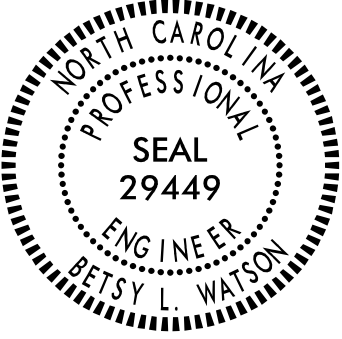
DocuSigned by:
Betsy L. Watson
35E57B834F5743F...

APPROVED:

5/31/2018

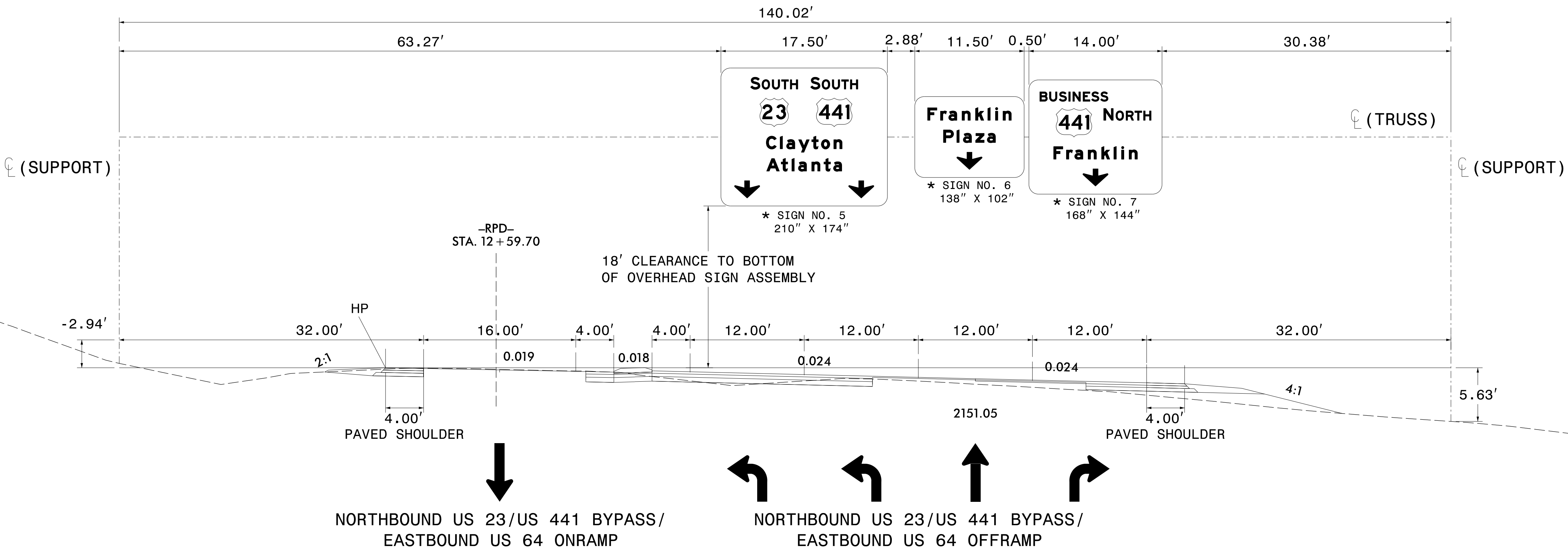
DATE:

SEAL



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED





NOTES:

- IF CONTRACTOR BIDS 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.
- FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. PROVIDE FIELD VERIFICATION TO THE SIGNING SECTION.
- THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 4 INCHES AND NOT MORE THAN 24 INCHES ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
- SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
- DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.

* THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTINGS. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.

OVERHEAD SIGN ASSEMBLY 'B'
NB US 23/US 441 BYP/EB US 64 OFFRAMP
-LPD- STA 13+25

SIGN NUMBER: 1

TYPE: A

QUANTITY: 1

BACKG COLOR: Green

COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	63	204.5	36	36
M1_4	19.7	110.2	36	36
M1_4	89.7	110.2	45	36
AR90R1	64.5	9.2	33	33

MAT'L: 0.125" (3.2MM) ALUMINUM

USE NOTES

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.

DESIGN BY: RRH

CHECKED BY: BLW

DATE: Aug 09, 2017

PROJECT ID: R-5734A

DIV: 14

SIGN NUMBER: 2

TYPE: A

QUANTITY: 1

BACKG COLOR: Green

COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	49.1	100	36	36
M1_4	120.4	100	45	36
ARDOWN	17	10	32	22
ARDOWN	161	10	32	22

MAT'L: 0.125" (3.2MM) ALUMINUM

USE NOTES

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.

DESIGN BY: RRH

CHECKED BY: BLW

DATE: Aug 09, 2017

PROJECT ID: R-5734A

DIV: 14

TIP NO. R-5734A

SHEET NO. SIGN-4

APPROVED: *Betsy L. Watson*

DATE: 5/31/2018

SEAL

DOCUMENT NOT CONSIDERED FINAL

UNLESS ALL SIGNATURES COMPLETED

Letter spacings are to start of next letter																Series/Size Text Length
	N		O	R	T	H										E 2000
51	12.2	3.1	12.8	11	11	9.7	51									59.9
	N		O	R	T	H										E 2000
82.2	12.2	3.1	12.8	11	11	9.7	19.8									59.9
	E		A	S	T											E 2000
14.5	11.3	1.5	13.6	11	9	101.2										46.4
	B	Y	P	A	S	S										E 2000
76.9	11	14.3	10.7	13.6	11.4	9.7	14.5									70.7
	S	y	l	v	a											EM 2000
46.8	16.2	18.2	7.8	15.5	10.6	46.8										68.3
	C	h	e	r	o	k	e	e								EM 2000
24.3	17.4	15.5	15.5	10.4	15.8	14.1	14.1	10.6	24.3							113.4

Letter spacings are to start of next letter																Series/Size Text Length
	S		O	U	T	H										E 2000
37.2	12.2	2.2	12.8	11.8	11	9.7	113									59.8
	S		O	U	T	H										E 2000
113	12.2	2.2	12.8	11.8	11	9.7	37.2									59.8
	C	l	a	y	t	o	n									EM 2000
57.1	17.4	8.2	15.2	16.6	12	15.8	10.6	57.1								95.8
	A	t	l	a	n	t	a									EM 2000
57.6	18.4	13.4	8.2	17	15.4	12	10.6	57.6								94.9

SIGN NUMBER: 3

TYPE: A

QUANTITY: 1

BACKG COLOR: Green

COPY COLOR: White

SYMBOL	X	Y	WID	HT
AR90R1	52.5	10	33	33

MAT'L: 0.125" (3.2MM) ALUMINUM

USE NOTES

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.

DESIGN BY: RRH

CHECKED BY: BLW

DATE: Aug 09, 2017

PROJECT ID: R-5734A

DIV: 14

SIGN NUMBER: 4

TYPE: A

QUANTITY: 1

BACKG COLOR: Green

COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	16.1	71.7	36	36
ARDOWN	50	9.8	32	22

MAT'L: 0.125" (3.2MM) ALUMINUM

USE NOTES

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.

DESIGN BY: RRH

CHECKED BY: BLW

DATE: Aug 09, 2017

PROJECT ID: R-5734A

DIV: 14

Letter spacings are to start of next letter																Series/Size Text Length
	W		E	S	T											E 2000
67.1	15.9	2.2	10.7	11	9	16.1										48.8
	M	u	r	p	h	y										EM 2000
19.3	20.3	17	11.8	15.5	15.2	13.6	19.3									93.4

SIGN NUMBER: 1	BACKGROUND COLOR: Green	DESIGN BY: RRH	CHECKED BY: BLW
TYPE: A	COPY COLOR: White	PROJECT ID: R-5734A	DIV: 14
QUANTITY: 1			DATE: Aug 09, 2017

SYMBOL	X	Y	WID	HT
M1_4	49.1	100	36	36
M1_4	120.4	100	45	36
ARDOWN	17	10	32	22
ARDOWN	161	10	32	22

MAT'L: 0.125" (3.2MM) ALUMINUM

USE NOTES 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.	
--	--

[illegible]

SIGN NUMBER:	6	BACKG COLOR:	Green	DESIGN BY:	RRH	CHECKED BY:	BLW
TYPE:	A	COPY COLOR:	White	PROJECT ID:	R-5734A	DIV:	14
QUANTITY:	1						
SIGN WIDTH:	138"						
HEIGHT:	102"						
TOTAL AREA:	97.8 Sq.Ft.						
BORDER TYPE:	FLUSH						
RADII:	12"						
WIDTH:	2"						
RECESS:	0"						
NO. Z BARS:	3						
LENGTH:	130.0						

SYMBOL	X	Y	WID	HT
ARDOWN	53	10	32	22

MAT'L: 0.125" (3.2MM) ALUMINUM

USE NOTES

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.

Spacing Factor is 1 unless specified otherwise

[illegible]

SIGN NUMBER: 7	BACKG COLOR: Green	DESIGN BY: RRH	CHECKED BY: BLW
TYPE: A	COPY COLOR: White	PROJECT ID: R-5734A	DIV: 14
QUANTITY: 1			DATE: Aug 09, 2017
SIGN WIDTH: 168"			
HEIGHT: 144"			
TOTAL AREA: 168.0 Sq.Ft.			
BORDER TYPE: FLUSH			
RADII: 12"			
WIDTH: 2"			
RECESS: 0"			
NO. Z BARS: 3			
LENGTH: 160.0			

[illegible]

TIP NO. R-5734A		SHEET NO. SIGN-4A
DocuSignified by:  Betsy L. Watson 35057B033F0743F		
APPROVED: _____ DATE: 5/31/2018 _____		
SEAL 		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
 Stantec		

SIGN NUMBER: 305	BACKG COLOR: Brown	DESIGN BY: RRH	CHECKED BY: BLW
TYPE: D	COPY COLOR: White	PROJECT ID: R-5734A	DIV: 14
QUANTITY: 1			DATE: Aug 09, 2017

SIGN WIDTH: 66"	SYMBOL	X	Y	WID	HT
HEIGHT: 24"	U-TURN 6 INCH	0	5.9	10.8	12.2
TOTAL AREA: 11.0 Sq.Ft.					
BORDER TYPE: FLUSH					
RADII: 3"					
WIDTH: 0.75"					
RECESS: 0"					
NO. Z BARS:					
LENGTH:					

MAT'L: 0.125" (3.2MM) ALUMINUM

USE NOTES 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.	BORDER R=3" TH=0.75" MOUNT ON TWO "U" POSTS Spacing Factor is 1 unless specified otherwise
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SIGN NUMBER: 307	BACKG COLOR: Brown	DESIGN BY: RRH	CHECKED BY: BLW
TYPE: D	COPY COLOR: White	PROJECT ID: R-5734A	DIV: 14
QUANTITY: 1			DATE: Aug 09, 2017

SYMBOL	X	Y	WID	HT
AR_Type D	6.5	9	6	9

MAT'L: 0.125" (3.2MM) ALUMINUM

USE NOTES - Legend and border (except those that are colored black) shall be direct applied Grade C sheeting. - Background shall be Grade C reflective sheeting.	MOUNT ON TWO "U" POSTS Spacing Factor is 1 unless specified otherwise
--	---

[illegible][illegible]

SIGN NUMBER: 1308	BACKG COLOR: Brown	DESIGN BY: MRH	CHECKED BY: BLW	DATE: Aug 09, 2017
TYPE: D	COPY COLOR: White	PROJECT ID: R-5734A	DIV: 14	
QUANTITY: 1				

SIGN WIDTH: 48"	HEIGHT: 36"	TOTAL AREA: 12.0 Sq.Ft.
BORDER TYPE: FLUSH	RADII: 3"	WIDTH: 0.75"
	RECESS: 0"	
NO. Z BARS:		
LENGTH:		

SYMBOL	X	Y	WID	HT
AR_Type D	19.5	4.5	6	9

MAT'L: 0.125" (3.2MM) ALUMINUM

USE NOTES
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.

SIGN NUMBER: 309	BACKG COLOR: Green	DESIGN BY: RRH	CHECKED BY: BLW
TYPE: D	COPY COLOR: White	PROJECT ID: R-5734A	DIV: 14
QUANTITY: 1			DATE: Aug 09, 2017

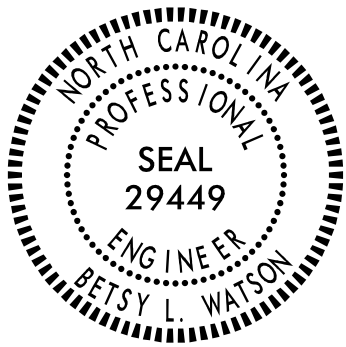
SIGN WIDTH: 78"	SYMBOL	X	Y	WID	HT
HEIGHT: 42"	AR_Type D	35.3	5.3	5	7.5
TOTAL AREA: 22.8 Sq.Ft.					

MAT'L: 0.125" (3.2MM) ALUMINUM

USE NOTES

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.

[illegible][illegible]

TYPING NO.		SHEET NO.	
R-5734A		SIGN-4D	
Drawn by: <i>Betsy L. Watson</i> 35C07B034F0743P...			
APPROVED: _____ DATE: 5/31/2018 _____			
SEAL 			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 Stantec			

SIGN NUMBER: 310	BACKG COLOR: Blue	DESIGN BY: RRH	CHECKED BY: BLW
TYPE: D	COPY COLOR: White	PROJECT ID: R-5734A	DIV: 14
QUANTITY: 1			DATE: Aug 09, 2017

SIGN WIDTH: 66"	HEIGHT: 24"	TOTAL AREA: 11.0 Sq.Ft.		
BORDER TYPE: FLUSH				
RADIO: 3"				
WIDTH: 0.75"				
RECESS: 0"				
NO. Z BARS:				
LENGTH:				

SYMBOL	X	Y	WID	HT
AR_Type D	6.6	7.5	6	9

MAT'L: 0.125" (3.2MM) ALUMINUM

USE NOTES	
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.	

SIGN NUMBER: 311	BACKG COLOR: Green	DESIGN BY: RRH	CHECKED BY: BLW
TYPE: D	COPY COLOR: White	PROJECT ID: R-5734A	DIV: 14
QUANTITY: 1		DATE: Aug 09, 2017	

SIGN WIDTH: 78"	X: 35.3	Y: 5.3	WID: 5	HT: 7.5
HEIGHT: 42"				
TOTAL AREA: 22.8 Sq.Ft.				

BORDER TYPE: FLUSH	RADI: 3"	WIDTH: 0.75"	RECESS: 0"
NO. Z BARS:			
LENGTH:			

MAT'L: 0.125" (3.2MM) ALUMINUM

USE NOTES

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.

[illegible][illegible]

SIGN NUMBER: 312	BACKG COLOR: Green	DESIGN BY: MRH	CHECKED BY: BLW
TYPE: D	COPY COLOR: White	PROJECT ID: R-5734A	DIV: 14
QUANTITY: 1			DATE: Aug 09, 2017

SIGN WIDTH: 60"	HEIGHT: 24"	TOTAL AREA: 10.0 Sq.Ft.
BORDER TYPE: FLUSH		
RADII: 3"		
WIDTH: 0.75"		
RECESS: 0"		
NO. Z BARS:		
LENGTH:		

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2MM) ALUMINUM

USE NOTES 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.	5'-0" 2'-0" 3.75" 6"D 4.5" 6"D 3.75" 6.85" 46.3" 6.85" BORDER R=3" TH=0.75" MOUNT ON TWO "U" POSTS Spacing Factor is 1 unless specified otherwise
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SIGN NUMBER: 1313	BACKGROUND COLOR: Brown	DESIGN BY: MRH	CHECKED BY: BLW
TYPE: D	COPY COLOR: White	PROJECT ID: R-5734A	DIV: 14
QUANTITY: 1		DATE: Aug 09, 2017	

SIGN WIDTH: 36"	X: 14.3	Y: 3.7	WID: 5	HT: 7.5
HEIGHT: 30"				
TOTAL AREA: 7.5 Sq.Ft.				

BORDER TYPE: FLUSH	RADI: 3"	WIDTH: 0.75"	RECESS: 0"

NO. Z BARS:	LENGTH:

MAT'L: 0.080" (2.0MM) ALUMINUM

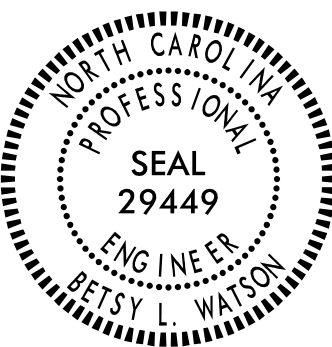
USE NOTES

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

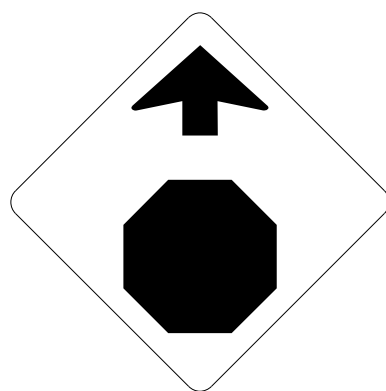
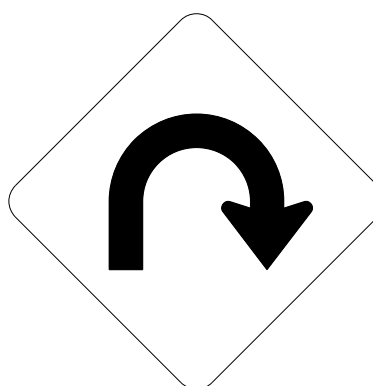
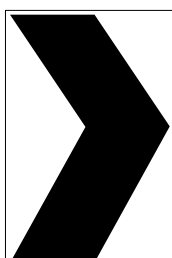
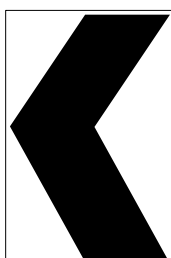
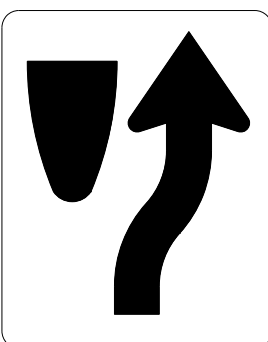
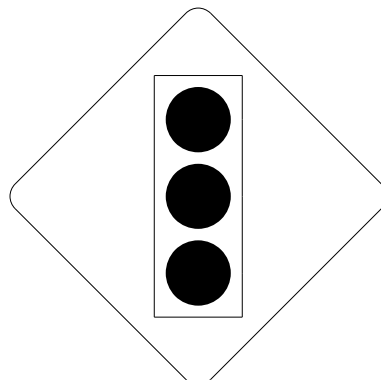
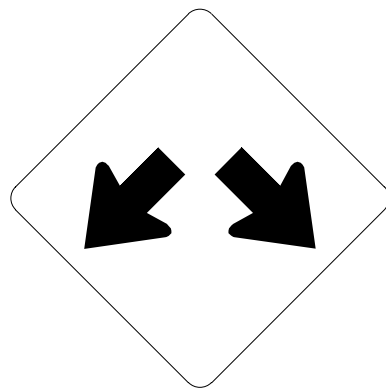
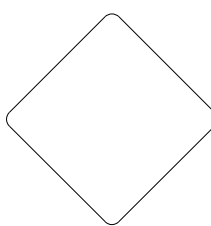
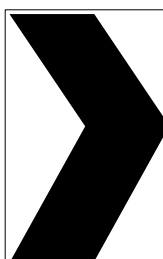
MOUNT ON ONE "U" POST

Spacing Factor is 1 unless specified otherwise

[illegible][illegible]

TIP NO.	SHEET NO.
R-5734A	SIGN-4E
DocuSigned by: <i>Betsy L. Watson</i> 35C77B834F8743F...	
APPROVED:	
DATE: 5/31/2018	
SEAL	
	
DOCUMENT NOT PROVIDED FOR FINAL UNLESS ALL SIGNATURES COMPLETED	
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401 QUANTITY REQ'D 4 SPEED LIMIT 50 30 X 36 R2-1 ONE "U" POST PER SIGN	406 QUANTITY REQ'D 4  36 X 36 R3-4 MOUNT BELOW SIGN 304 IN 1 INSTALLATION ONE "U" POST PER SIGN	411 QUANTITY REQ'D 6 ONE WAY 54 X 18 R6-1R TWO "U" POSTS PER SIGN	416 QUANTITY REQ'D 1 YIELD 36 X 36 X 36 R1-2 ONE "U" POST PER SIGN	421 QUANTITY REQ'D 4  24 X 18 R3-17 ONE "U" POST PER SIGN	426 QUANTITY REQ'D 1  36 X 36 W3-5 ONE "U" POST PER SIGN	TIP NO. R-5734A SHEET NO. SIGN-5 APPROVED: Designed by: Betsy L. Watson DATE: 5/31/2018 SEAL NORTH CAROLINA PROFESSIONAL SEAL 29449 ENGINEER BETSY L. WATSON DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED Stantec
402 QUANTITY REQ'D 4 SPEED LIMIT 45 30 X 36 R2-1 ONE "U" POST PER SIGN	407 QUANTITY REQ'D 5 DO NOT ENTER 36 X 36 R5-1 ONE "U" POST PER SIGN	412 QUANTITY REQ'D 2 ONE WAY 54 X 18 R6-1L TWO "U" POSTS PER SIGN	417 QUANTITY REQ'D 5 ONE WAY 36 X 12 R6-1R MOUNT ABOVE SIGN 418 IN 5 INSTALLATIONS	422 QUANTITY REQ'D 2 ENDS 24 X 8 R3-17bP MOUNT BELOW SIGN 421 IN 2 INSTALLATIONS	427 QUANTITY REQ'D 1  36 X 36 W3-5 ONE "U" POST PER SIGN	
403 QUANTITY REQ'D 2 SPEED LIMIT 35 24 X 30 R2-1 ONE "U" POST PER SIGN	408 QUANTITY REQ'D 4  36 X 36 W3-1 ONE "U" POST PER SIGN	413 QUANTITY REQ'D 2 WRONG WAY 42 X 30 R5-1a ONE "U" POST PER SIGN	418 QUANTITY REQ'D 5 STOP 36 X 36 R1-1 TWO "U" POST PER SIGN	423 QUANTITY REQ'D 1  36 X 36 W11-1 FLUORESCENT YELLOW/GREEN ONE "U" POST PER SIGN	428 QUANTITY REQ'D 2 LEFT LANE MUST TURN LEFT 36 X 36 R3-7L ONE "U" POST PER SIGN	431 QUANTITY REQ'D 1  48 X 48 W1-11 TWO "U" POST PER SIGN
404 QUANTITY REQ'D 8  18 X 24 W1-8R ONE "U" POST PER SIGN	409 QUANTITY REQ'D 8  18 X 24 W1-8L MOUNT BEHIND SIGN 404 IN 8 INSTALLATIONS	414 QUANTITY REQ'D 12  24 X 30 R4-7 ONE "U" POST PER SIGN	419 QUANTITY REQ'D 3  36 X 36 W3-3 ONE "U" POST PER SIGN	424 QUANTITY REQ'D 1 SHARE THE ROAD 24 X 30 W16-1P FLUORESCENT YELLOW/GREEN MOUNT BELOW SIGN 423 IN 1 INSTALLATION	429 QUANTITY REQ'D 3 RIGHT LANE MUST TURN RIGHT 36 X 36 R3-7R ONE "U" POST PER SIGN	432 QUANTITY REQ'D 1 25 MPH 24 X 24 W13-1P MOUNT BELOW SIGN 431 IN 1 INSTALLATION
405 QUANTITY REQ'D 5 STOP 36 X 36 R1-1 ONE "U" POST PER SIGN	410 QUANTITY REQ'D 2  30 X 30 W12-1 ONE "U" POST PER SIGN	415 QUANTITY REQ'D 12  18 X 18 OM1-3 MOUNT BELOW SIGN 414 IN 12 INSTALLATIONS	420 QUANTITY REQ'D 1 EXIT 35 MPH 36 X 48 W13-2 TWO "U" POST PER SIGN	425 QUANTITY REQ'D 5  30 X 36 W1-8R INSTALL ON TWO "U" POSTS PER SIGN SPACED APPROXIMATELY 24 INCHES APART ON SUPPORT CENTERS INSTALL 28 INCH HORIZONTAL CROSS BRACING LEAVING A 1 INCH MARGIN FROM LEFT AND RIGHT EDGES OF SIGN INSTALLATION HEIGHT: BOTTOM OF SIGN SHALL BE 4 FEET ABOVE THE EDGE OF TRAVEL LANE ELEVATION (RIGHT EDGE LINE OF RAMP) ALL OTHER PORTIONS OF ROADWAY STANDARD DRAWING 904.50 APPLY	430 QUANTITY REQ'D 1 RAMP 25 MPH 36 X 48 W13-3 TWO "U" POST PER SIGN	TYPE 'E' SIGNS

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\$\$\$\$\$USERNAME\$\$\$\$\$

501504

NORTH

23

441

1 - 24 X 12

1 - 24 X 24

1 - 30 X 24

ONE "U" POST PER SIGN

508

WEST

64

1 - 24 X 12

1 - 24 X 24

1 - 21 X 15

ONE "U" POST PER SIGN

502

NORTH

23

441

1 - 24 X 12

1 - 24 X 24

1 - 30 X 24

1 - 21 X 21
SEE U-TURN
DETAIL

ONE "U" POST PER SIGN

509

NORTH

BUSINESS

441

H

1 - 24 X 12

1 - 24 X 24

1 - 30 X 24

1 - 21 X 15
WHITE ON BLUE

MOUNT BELOW SIGN 310
IN 1 INSTALLATION

503506511

SOUTH

23

441

1 - 24 X 12

1 - 24 X 24

1 - 30 X 24

ONE "U" POST PER SIGN

510

1 - 24 X 24
I-8

1 - 21 X 15
WHITE ON GREEN

MOUNT BELOW SIGN 311
IN 1 INSTALLATION

505

NORTH

23

441

1 - 24 X 12

1 - 24 X 24

1 - 30 X 24

1 - EXISTING
LOGO SIGN
1 - 21 X 21
BLACK ON WHITE
SEE U-TURN DETAIL
1 - 21 X 21
WHITE ON BLUE
SEE U-TURN DETAIL

TWO "U" POSTS PER SIGN

512

NORTH

23

64

2 - 24 X 12

2 - 24 X 24

2 - 21 X 15

1 - 24 X 12

3 - 24 X 12

1 - 30 X 24

1 - 24 X 24

1 - 30 X 24

3 - 21 X 15

THREE "U" POSTS PER SIGN

507

1 - 24 X 24
I-8

1 - 21 X 15
WHITE ON GREEN

MOUNT BELOW SIGN 309
IN 1 INSTALLATION

513

TO

WEST

64

2 - 24 X 12

2 - 24 X 12

1 - 24 X 24

1 - 30 X 24

2 - 21 X 15

TWO "U" POSTS PER SIGN

SIGN NUMBER: U-TURN DETAIL
TYPE: F
QUANTITY: 2

BACKG COLOR: White
COPY COLOR: Black

SYMBOL	X	Y	WID	HT
U-TURN ARROW	3.6	3.5	12.7	13.9

MAT'L: 0.063" (1.6MM) ALUMINUM

DESIGN BY: RRH
PROJECT ID: R-5734A

CHECKED BY: BLW
DIV: 14

DATE: July 5, 2017

USE NOTES

1. Legend and border shall be direct applied non-reflective sheeting.
2. Background shall be Grade C reflective sheeting.

1'-9"

3.55"

13.9"

3.55"

1'-9"

3.6"

12.7"

4.7"

BORDER
R=1.5"
TH=0.63"
IN=0.38"

Spacing Factor is 1 unless specified otherwise

Arrow Details

ARROW DIMENSIONS (INCHES)	F	G	H	M	N	P	Q	R
	2.625	2.625	8.659	5.25	3	5.25	0.375	0.5

SIGN NUMBER: LOGO U-TURN DETAIL
TYPE: F
QUANTITY: 1

BACKG COLOR: Blue
COPY COLOR: White

SYMBOL	X	Y	WID	HT
U-TURN ARROW	3.6	3.5	12.7	13.9

MAT'L: 0.063" (1.6MM) ALUMINUM

DESIGN BY: RRH
PROJECT ID: R-5734A

CHECKED BY: BLW
DIV: 14

DATE: July 5, 2017

USE NOTES

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.

1'-9"

3.55"

13.9"

3.55"

1'-9"

3.6"

12.7"

4.7"

BORDER
R=1.5"
TH=0.63"
IN=0.38"

Spacing Factor is 1 unless specified otherwise

Arrow Details

ARROW DIMENSIONS (INCHES)	F	G	H	M	N	P	Q	R
	2.625	2.625	8.659	5.25	3	5.25	0.375	0.5

TIP NO.
R-5734A

SHEET NO.
SIGN-5A

APPROVED: *Betsy L. Watson*

DATE: 5/31/2018

SEAL

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

TYPE 'F' SIGNS

TIP NO.
R-5734A

SHEET NO.
SIGN-6

APPROVED:

Betsy L. Watson

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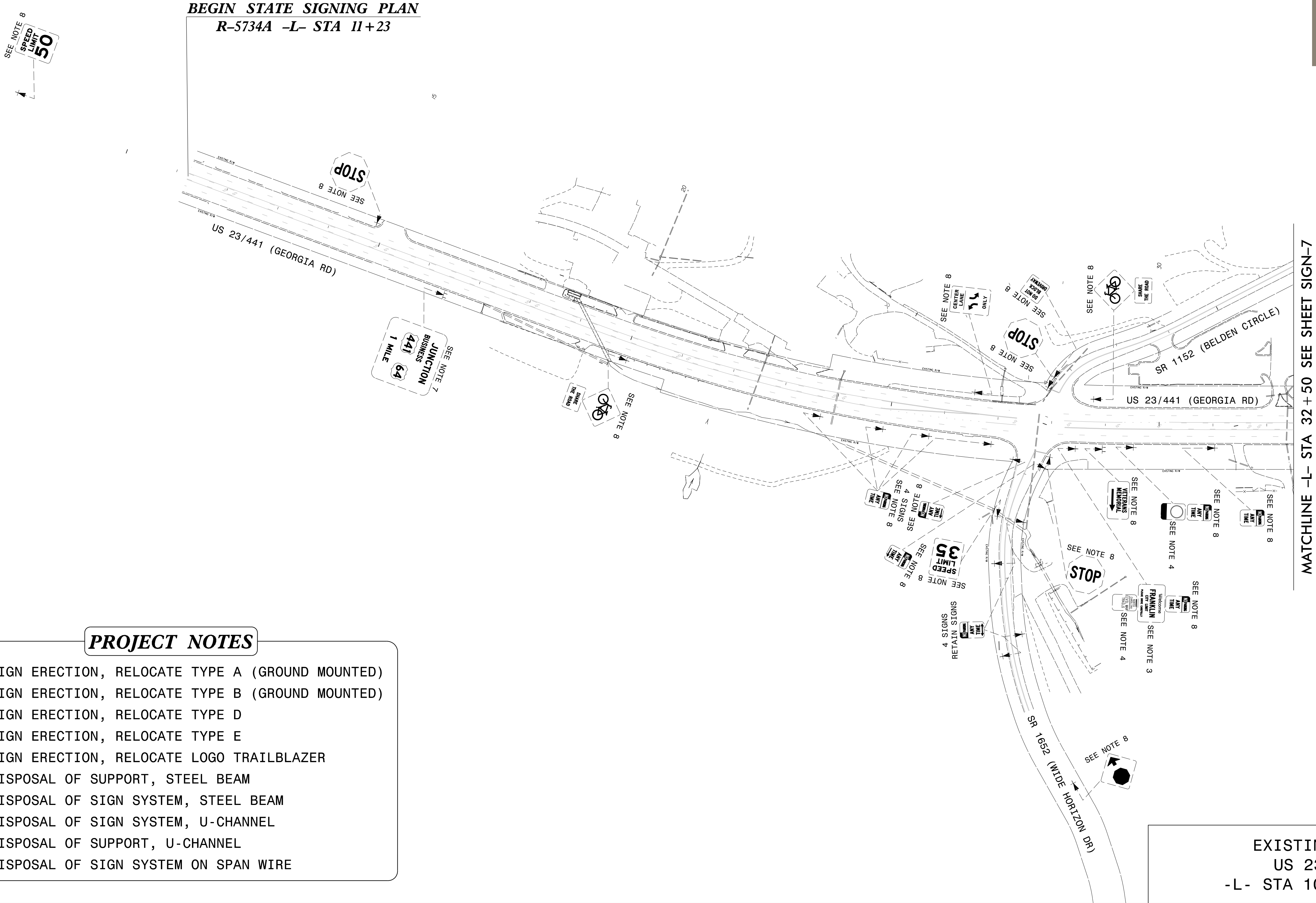
DATE: 5/31/2018

SEAL

NORTH CAROLINA
PROFESSIONAL
SEAL
29449
ENGINEER
BETSY L. WATSON

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Stantec



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\$\$\$\$\$DGN\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

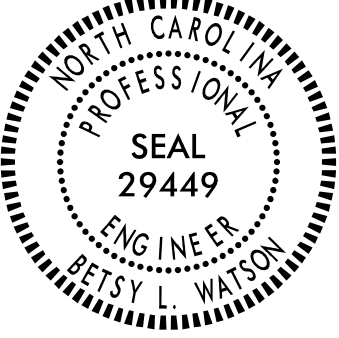
TIP NO.
R-5734A

SHEET NO.
SIGN-7

APPROVED:

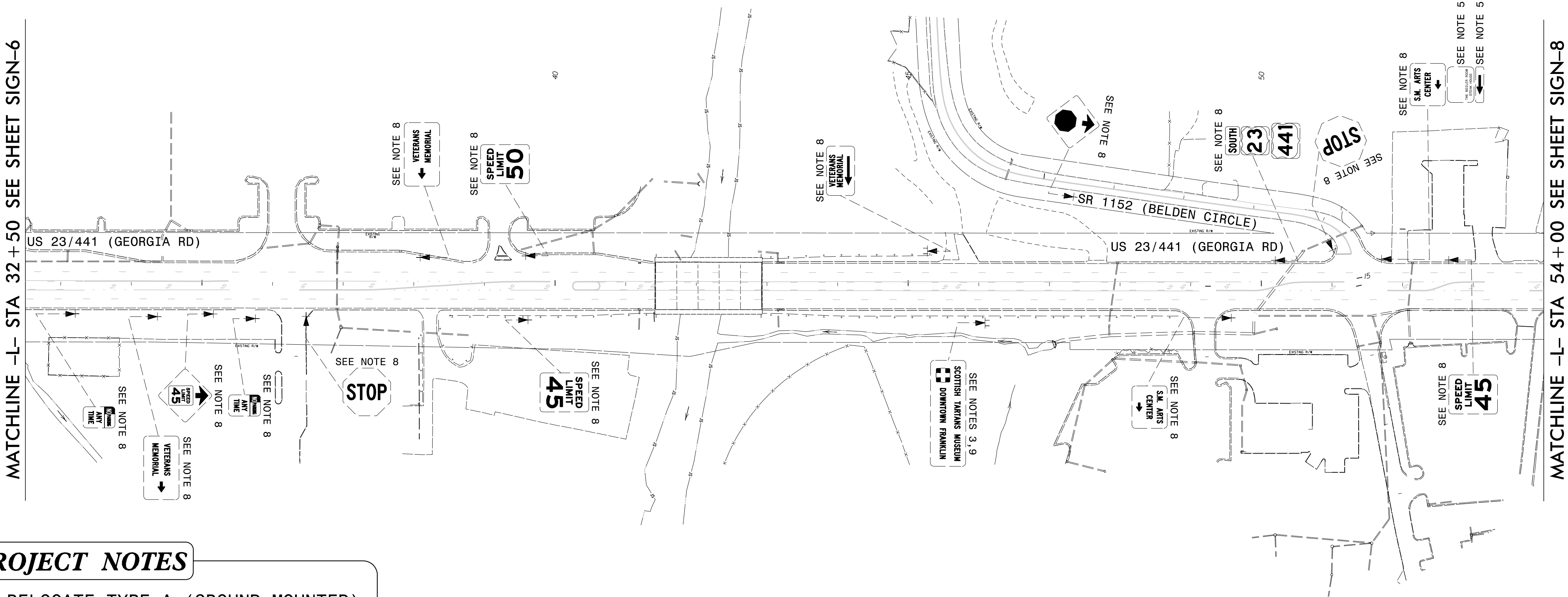
DESIGNED BY: Patsy L. Watson

DATE: 5/31/2018

SEAL


DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



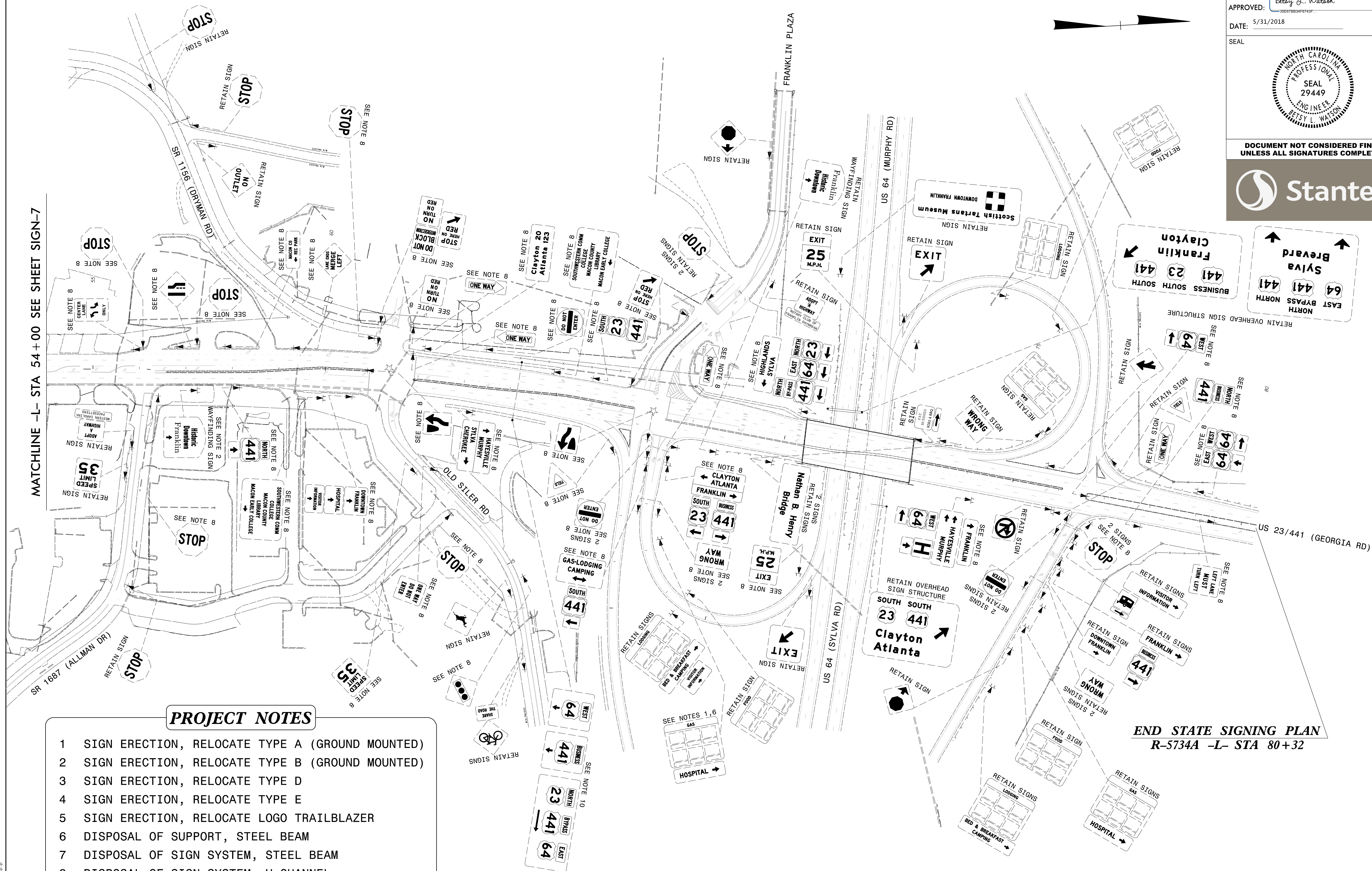


PROJECT NOTES

- SIGN ERECTION, RELOCATE TYPE A (GROUND MOUNTED)
- SIGN ERECTION, RELOCATE TYPE B (GROUND MOUNTED)
- SIGN ERECTION, RELOCATE TYPE D
- SIGN ERECTION, RELOCATE TYPE E
- SIGN ERECTION, RELOCATE LOGO TRAILBLAZER
- DISPOSAL OF SUPPORT, STEEL BEAM
- DISPOSAL OF SIGN SYSTEM, STEEL BEAM
- DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- DISPOSAL OF SUPPORT, U-CHANNEL
- DISPOSAL OF SIGN SYSTEM ON SPAN WIRE

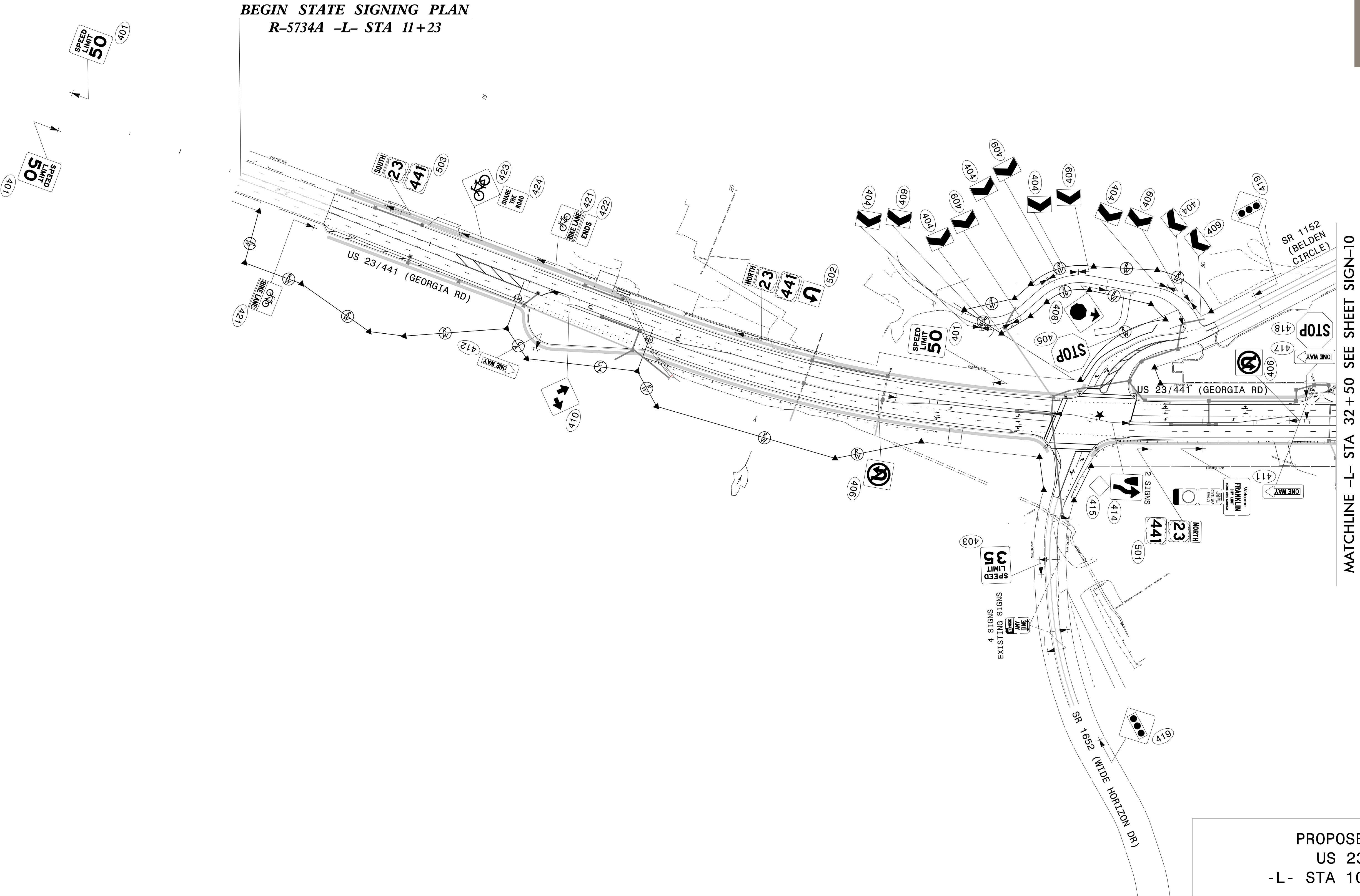
EXISTING SIGNING
US 23/US 441
-L- STA 32+50 TO 54+00

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DGN\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$



EXISTING SIGNING
US 23/US 441
-L- STA 54+00 TO 80+32

\$\$\$SYTIME\$\$\$
 \$\$\$DGN\$\$\$
 \$\$\$USERNAME\$\$\$



PROPOSED SIGNING
US 23/US 441
-L- STA 10+00 TO 32+50

TIP NO.
R-5734A

SHEET NO.
SIGN-10

APPROVED:

Betsy L. Watson
20E67B834F8743F...

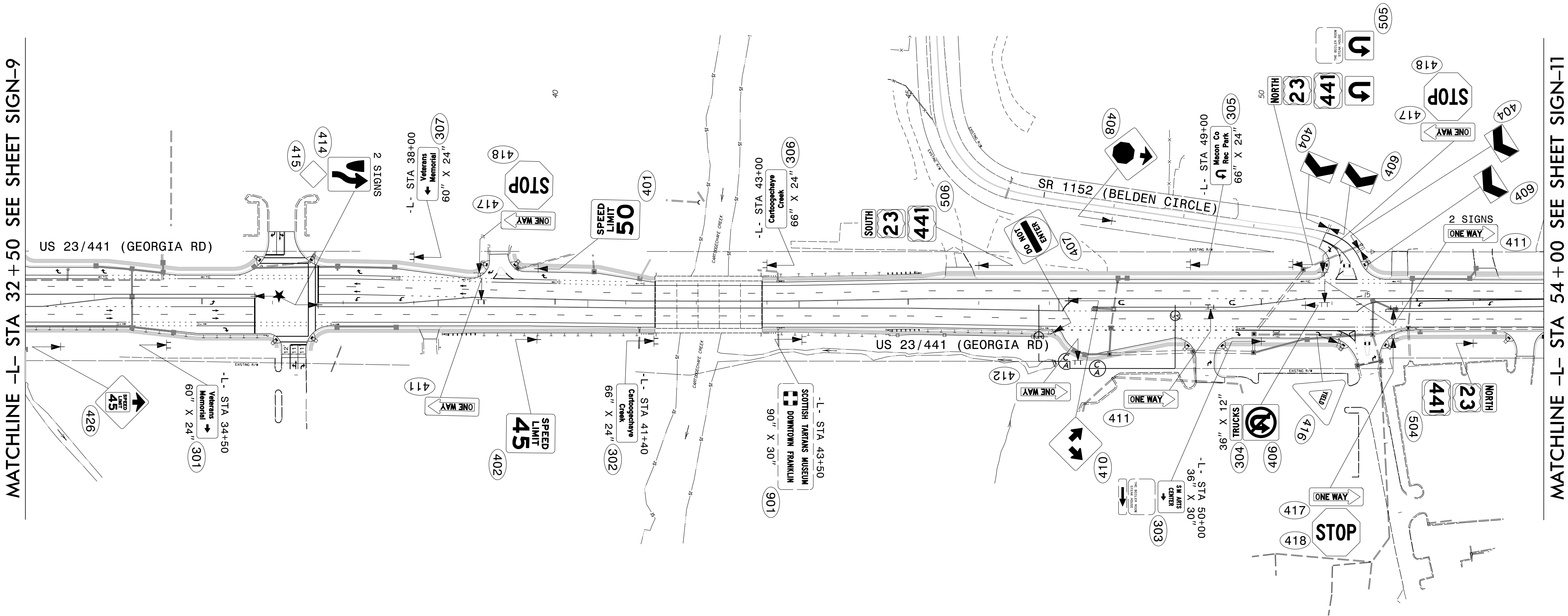
DATE: 5/31/2018

SEAL

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29449
ENGINEER
BETSY L. WATSON

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Stantec



PROPOSED SIGNING
US 23/US 441
-L- STA 32+50 TO 54+00

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DDON\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

