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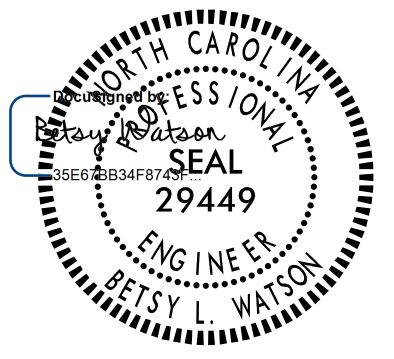
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**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
GUILFORD COUNTY**

**LOCATION: RAMP EXTENSIONS FROM I-40/I-85 BUSINESS TO US 29/70/220**

TIP NO. U-5754	SHEET NO. SIGN-1
APPROVED: _____	
DATE: _____	
SEAL 	
1/16/2019	
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**T.I.P.: U-5754**

**CONTRACT: C204295**

**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:

STD. NO.	TITLE
901.10	TYPE 'A' SIGNS
901.20	TYPE 'B' SIGNS
901.50	ARROWS AND SHIELDS
901.60	RIVET SPACING FOR OVERLAYED SIGNS
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
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.20	SECONDARY SIGN MOUNTING
904.30	SUPPLEMENTAL SIGN MOUNTING
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

**SUMMARY OF QUANTITIES**

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.		
4048000000	902	REINFORCED CONCRETE SIGN FOUNDATION.....	1 C.Y.
4054000000	902	PLAIN CONCRETE SIGN FOUNDATION.....	1 C.Y.
4057000000	SP	OVERHEAD FOOTING.....	57 C.Y.
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAM.....	415 LB
4066000000	903	SUPPORTS, SIMPLE STEEL BEAM.....	444 LB
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL.....	225 L.F.
4082100000	906	SUPPORTS, OVERHEAD SIGN STRUCTURE @ -Y2- Sta. 12+69.....	1 LS
4082100000	906	SUPPORTS, OVERHEAD SIGN STRUCTURE @ -Y2- Sta. 23+61.....	1 LS
4082100000	906	SUPPORTS, OVERHEAD SIGN STRUCTURE @ -Y2- Sta. 49+43.....	1 LS
4082100000	906	SUPPORTS, OVERHEAD SIGN STRUCTURE @ -Y1RP- Sta.16+86.....	1 LS
4102000000	904	SIGN ERECTION, TYPE E.....	11 EA.
4108000000	904	SIGN ERECTION, TYPE F.....	3 EA.
4109000000	904	SIGN ERECTION, TYPE A (OVERHEAD).....	13 EA.
4109000000	904	SIGN ERECTION, TYPE B (OVERHEAD).....	7 EA.
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED).....	3 EA.
4115000000	904	SIGN ERECTION, OVERLAY (OVERHEAD).....	7 EA.
4149000000	907	DISPOSAL OF SIGN SYSTEM, OVERHEAD.....	2 EA.
4152000000	907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM.....	6 EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL.....	11 EA.
4234000000	907	DISPOSAL OF SIGN, A OR B (OVERHEAD).....	15 EA.
4238000000	907	DISPOSAL OF SIGN, D, E OR F.....	1 EA.
4241000000	907	DISPOSAL OF SIGN, OVERLAY (OVERHEAD).....	3 EA.
4251000000	907	DISPOSAL OF LIGHTING SYSTEM.....	1 EA.
4263000000	907	DISPOSAL OF WALKWAY.....	4 EA.
4360000000	SP	CUTTING OF SIGN HANGERS, OVERHEAD.....	4 EA.

**GENERAL NOTES**

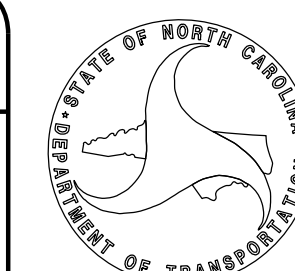
- SIGNS FURNISHED BY STATE
- CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ACTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.
- ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE 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
- 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.

**INDEX**

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-1A	PLAN SHEET INDEX
SIGN-2	GROUND MOUNTED SIGN SUPPORTS
SIGN-3-3C	STRUCTURE LINE DRAWINGS (EXISTING)
SIGN-3D-3G	STRUCTURE LINE DRAWINGS (PROPOSED)
SIGN-4-4F	SIGN DESIGNS & "E" & "F" SIGNS
SIGN-5-14	SIGNING PLAN SHEETS

PLAN PREPARED FOR THE N.C.D.O.T. SIGNING AND DELINEATION UNIT

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



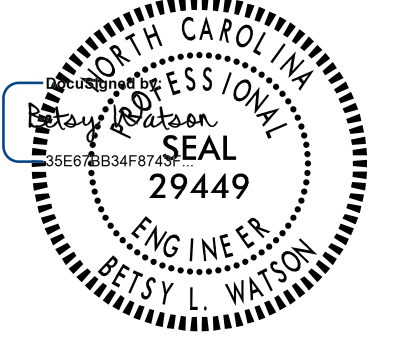

Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. (919) 851-6866  
 Fax. (919) 851-7024  
 www.stantec.com  
 License No. F-0672

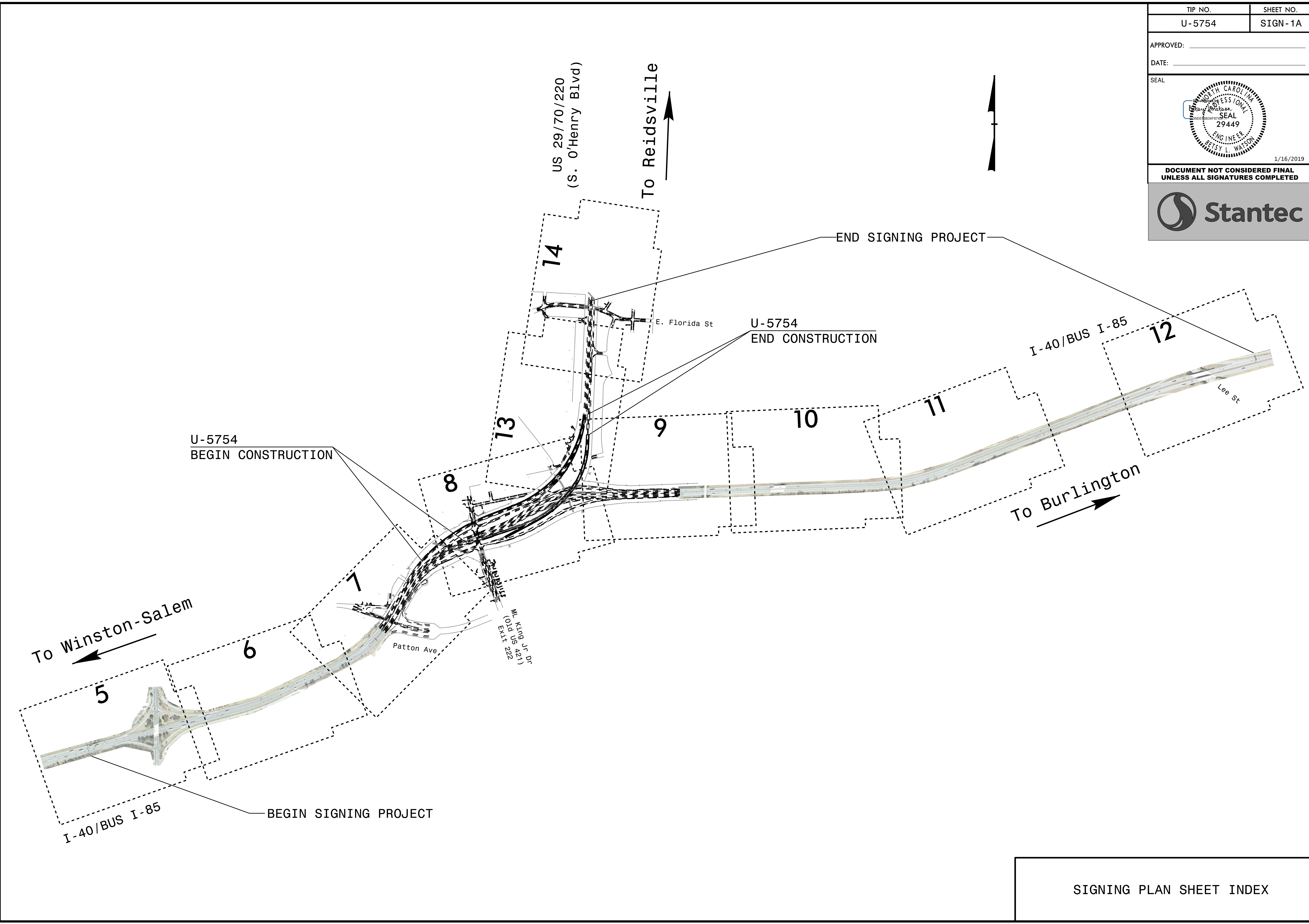
**PLAN PREPARED BY: Stantec Consulting Services, Inc.**

Betsy L. Watson, PE Senior Principal  
Jay Woolard, PE Senior Transportation Engineer  
James Hambricht Senior Transportation Technician





TIP NO.	SHEET NO.
U-5754	SIGN - 1A
APPROVED: _____	
DATE: _____	
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1/16/2019	
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SIGNING PLAN SHEET INDEX

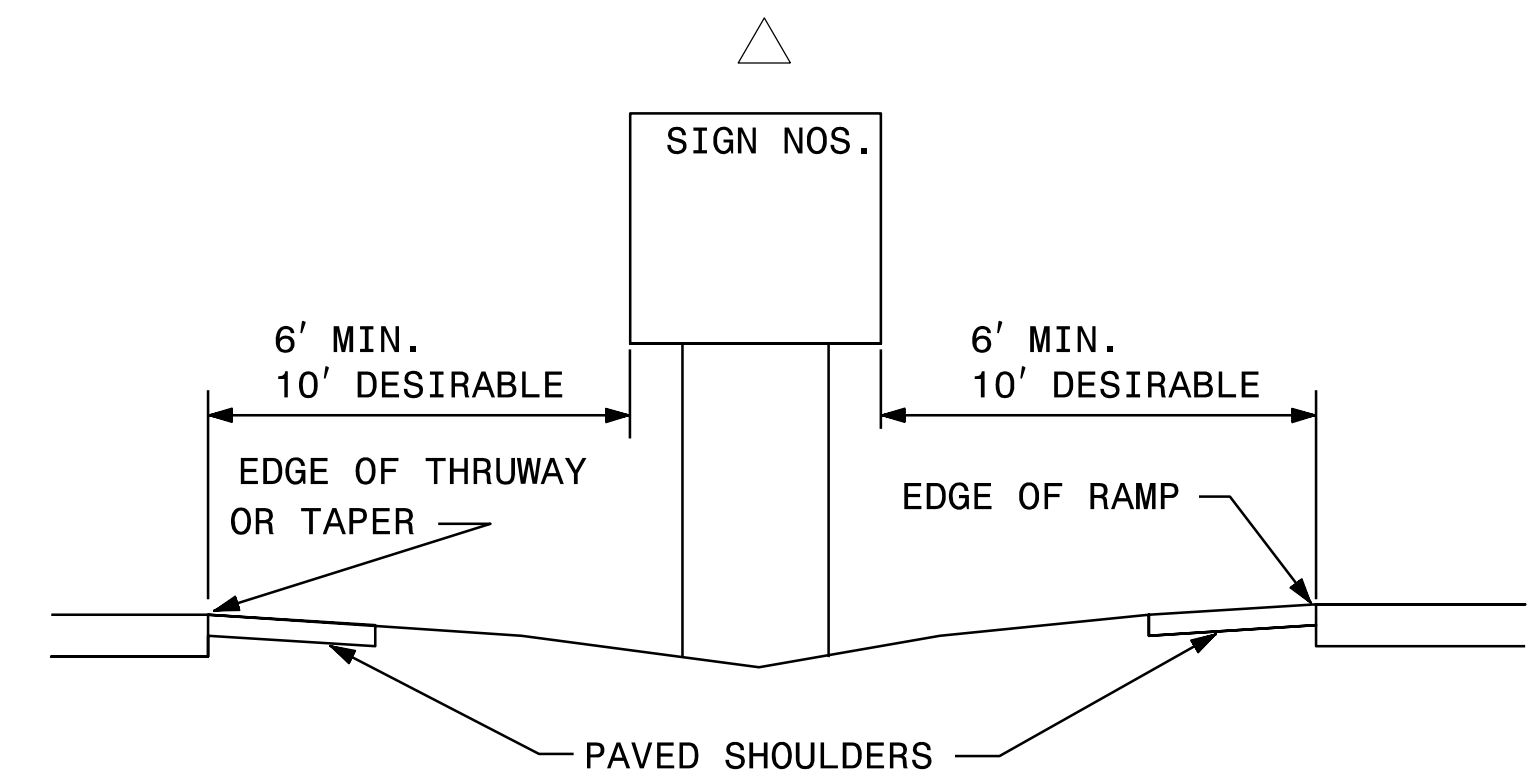
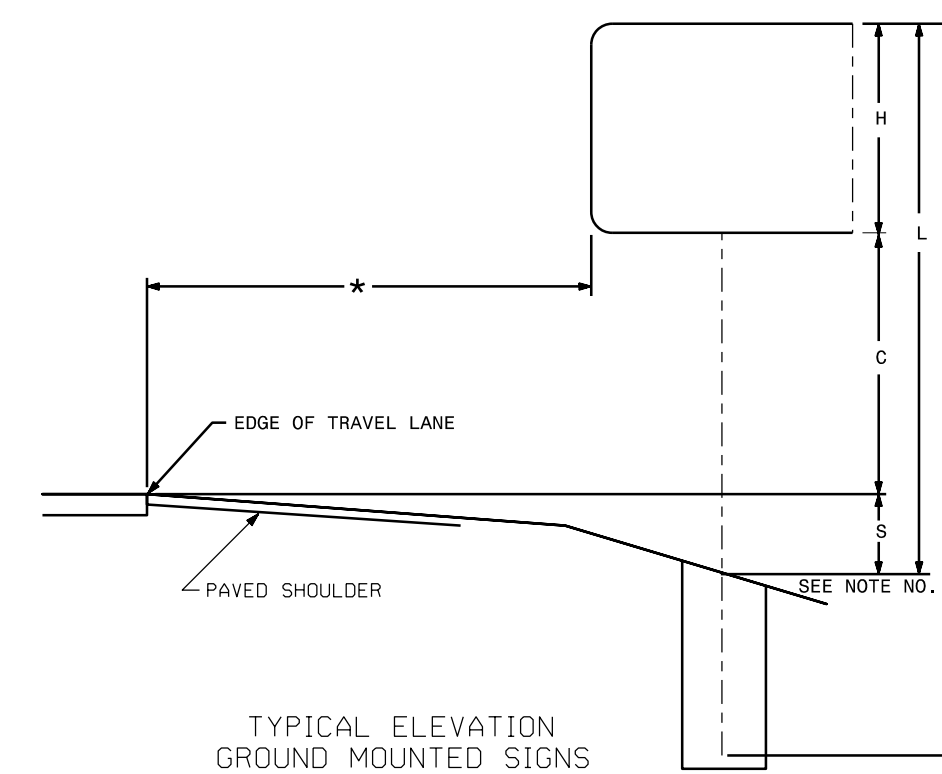
TIP NO. U-5754	SHEET NO. SIGN-2
APPROVED: _____	
DATE: _____	
1/16/2019	
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Version: 3.1 Posted: 6/2/2017

NUMBER	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.)																				
101	A	216	x	66	-Y1- Sta. 88+06	2	W6x12	S	N/A	N/A	N/A	11.50	10.55	5.50	7.00	3.5	2.12	14.62	18.12	0.00	0.00	0.00	2.85	15.35	18.85	0.00	443.64	1.5	4	0.52	0.00	_____																			
201	A	96	x	60	-Y2- Sta. 16+84	2	S3x5.7	BA	N/A	N/A	N/A	Δ	4.69	5.00	7.00	2.5	0.50	12.50	15.00	0.00	0.00	0.00	0.50	12.50	15.00	207.00	0	1.0	3	0.00	0.17	_____																			
202	A	72	x	60	-Y1- Sta. 57+33	2	S3x5.7	BA	N/A	N/A	N/A	Δ	3.52	5.00	7.00	2.5	0.50	12.50	15.00	0.00	0.00	0.00	0.50	12.50	15.00	207.00	0	1.0	3	0.00	0.17	_____																			
																								TOTAL	TOTAL	TOTAL	TOTAL																								
																								414.00	443.64	0.52	0.35																								
																								USE:	415.00	444.00	1.00	1.00																							

**NOTES**

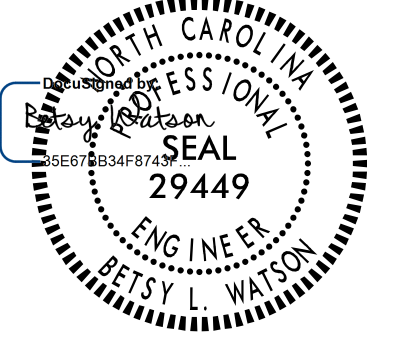

- DIMENSION "S" REPRESENTS AN INCREASE (+), OR A DECREASE (-) IN POLE LENGTH, RELATIVE TO THE ELEVATION OF THE EDGE OF TRAVEL LANE.
- FIELD VERIFICATIONS SHALL BE REQUIRED FOR ALL SUPPORTS, SEE (\*) ARTICLE 903-3. FABRICATORS SHALL BE AISC CERTIFIED IN CATEGORY 1, SEE (\*) ARTICLE 1072-1. (\*) = N.C.D.O.T. 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.



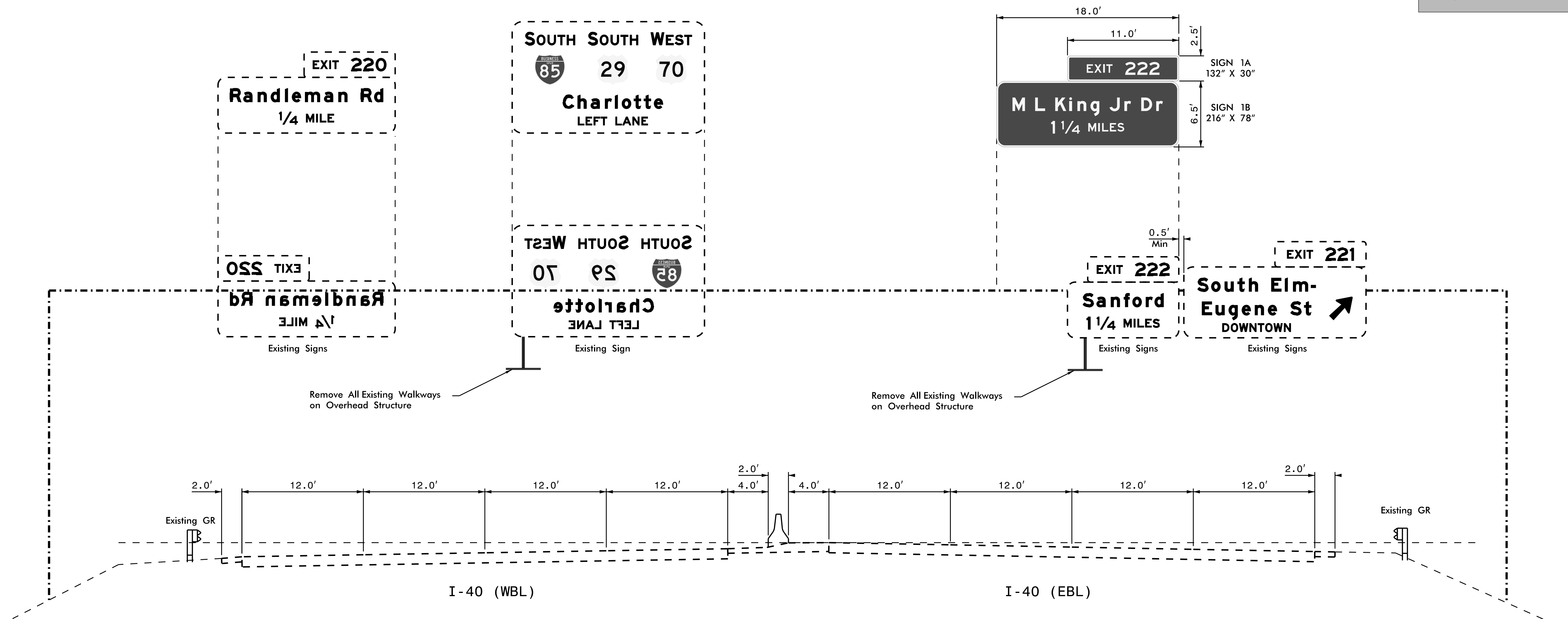
**TYPE "A" AND TYPE "B" GROUND MOUNTED SIGNS**

I:\2019\Traffic\Signing\CADD\Signing Plan Sheets\U-5754 Title and Typical Sheets.dgn



TIP NO. U-5754	SHEET NO. SIGN-3
APPROVED: _____	
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## EXISTING OVERHEAD SIGN STRUCTURE #1 (Outside Construction Limits)



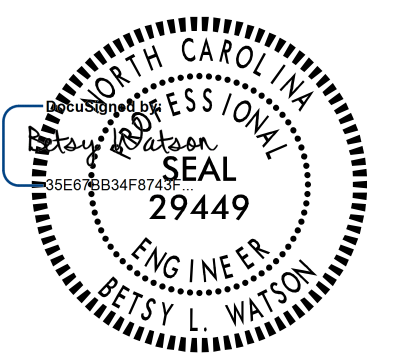

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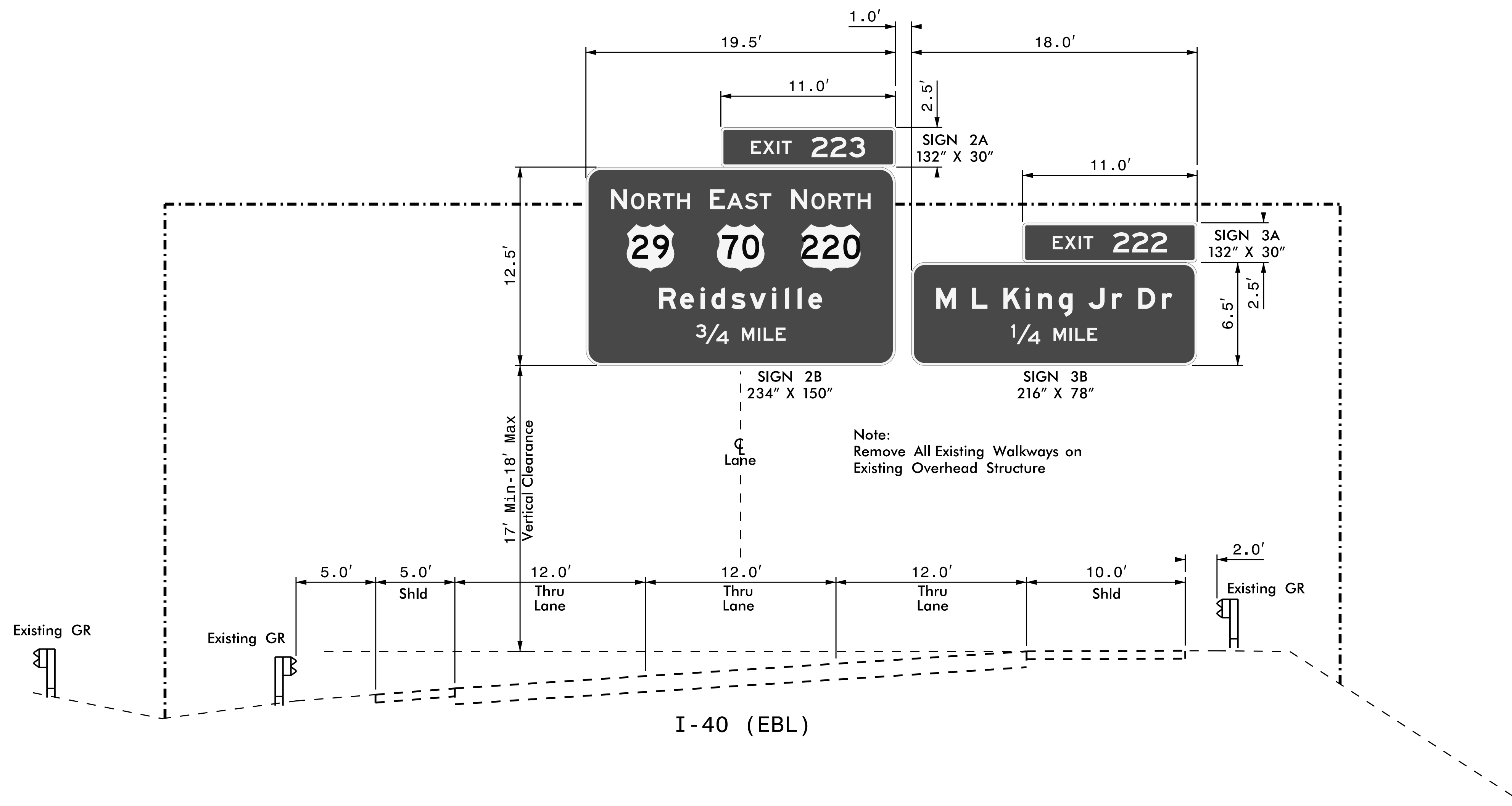
1. THIS IS A SCHEMATIC REPRESENTATION OF AN EXISTING STRUCTURE BASED ON RECORD DATA AND NOT A FIELD SURVEY. THIS INFORMATION IS SHOWN FOR THE PURPOSE OF ALIGNING THE NEW SIGNS OVER THE APPROPRIATE TRAVEL LANES.
2. REPLACEMENT SIGNS FOR THIS EXISTING STRUCTURE ARE INTENDED TO RESULT IN LESS SIGN SQUARE FOOTAGE, AND THEREFORE LESS WIND LOAD, THAN CURRENTLY EXISTS ON THIS STRUCTURE. THE CONTRACTOR SHALL FIELD VERIFY THE SQUARE FOOTAGE OF THE EXISTING SIGNS AND VERIFY THAT THE REPLACEMENT SIGNS RESULT IN LESS SQUARE FOOTAGE. THIS INFORMATION SHALL BE VERIFIED BEFORE FABRICATION OF THE REPLACEMENT SIGNS.
3. SEE STANDARD 904-3(B)(3) FOR REQUIREMENTS OF NEW STRUCTURAL MEMBERS, MOUNTING HARDWARE FOR NEW SIGNS, SHOP DRAWINGS, BRACING AND ACCESSORY HARDWARE FOR ATTACHMENTS.
4. SEE NCDOT STANDARD SPECIFICATIONS, SECTION 1076-6, FOR REPAIR OF GALVANIZING.
5. WHERE POSSIBLE, MOUNT NEW SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE AND MAINTAIN A MINIMUM CLEARANCE OF 17 FEET (18 FEET MAXIMUM) BETWEEN THE HIGH POINT OF THE ROADWAY AND THE BOTTOM OF THE SIGN.
6. REMOVE ALL EXISTING WALKWAY STRUCTURES.

**EXISTING OVERHEAD SIGN  
STRUCTURE #1  
(See Sheet SIGN-5)**

\$\$\$SYTIME\$\$\$\$  
 \$\$\$DGN\$\$\$\$  
 \$\$\$USERNAM\$\$\$\$

# EXISTING OVERHEAD SIGN STRUCTURE #2 (Outside Construction Limits)

TIP NO. U-5754	SHEET NO. SIGN-3A
APPROVED: _____	
DATE: _____	
	
1/16/2019	
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**NOTES:**

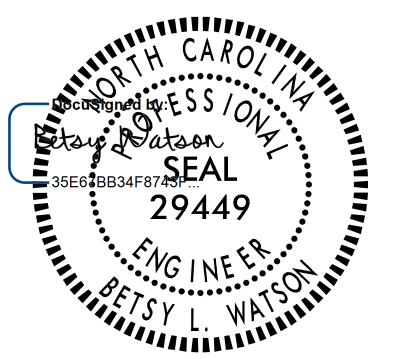

1. THIS IS A SCHEMATIC REPRESENTATION OF AN EXISTING STRUCTURE BASED ON RECORD DATA AND NOT A FIELD SURVEY. THIS INFORMATION IS SHOWN FOR THE PURPOSE OF ALIGNING THE NEW SIGNS OVER THE APPROPRIATE TRAVEL LANES.
2. REPLACEMENT SIGNS FOR THIS EXISTING STRUCTURE ARE INTENDED TO RESULT IN LESS SIGN SQUARE FOOTAGE, AND THEREFORE LESS WIND LOAD, THAN CURRENTLY EXISTS ON THIS STRUCTURE. THE CONTRACTOR SHALL FIELD VERIFY THE SQUARE FOOTAGE OF THE EXISTING SIGNS AND VERIFY THAT THE REPLACEMENT SIGNS RESULT IN LESS SQUARE FOOTAGE. THIS INFORMATION SHALL BE VERIFIED BEFORE FABRICATION OF THE REPLACEMENT SIGNS.
3. SEE STANDARD 904-3(B)(3) FOR REQUIREMENTS OF NEW STRUCTURAL MEMBERS, MOUNTING HARDWARE FOR NEW SIGNS, SHOP DRAWINGS, BRACING AND ACCESSORY HARDWARE FOR ATTACHMENTS.
4. SEE NCDOT STANDARD SPECIFICATIONS, SECTION 1076-6, FOR REPAIR OF GALVANIZING.
5. WHERE POSSIBLE, MOUNT NEW SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE AND MAINTAIN A MINIMUM CLEARANCE OF 17 FEET (18 FEET MAXIMUM) BETWEEN THE HIGH POINT OF THE ROADWAY AND THE BOTTOM OF THE SIGN.
6. REMOVE ALL EXISTING WALKWAY STRUCTURES.

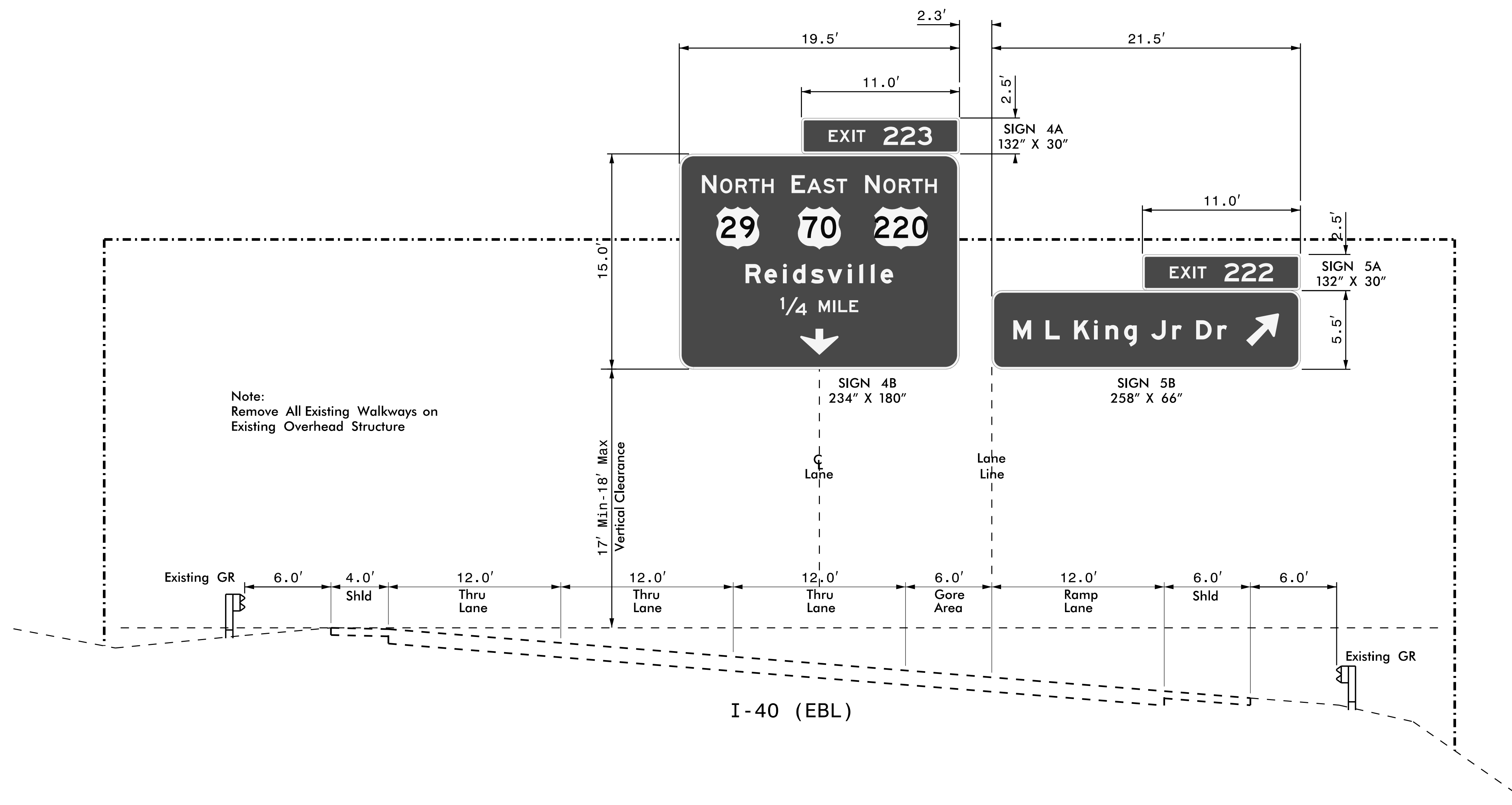
**EXISTING OVERHEAD SIGN  
STRUCTURE #2  
(See Sheet SIGN-7)**

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



# EXISTING OVERHEAD SIGN STRUCTURE #3 (Outside Construction Limits)

TIP NO. U-5754	SHEET NO. SIGN-3B
APPROVED: _____	
DATE: _____	
	
1/16/2019	
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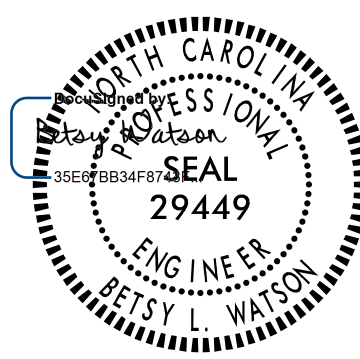

**NOTES:**

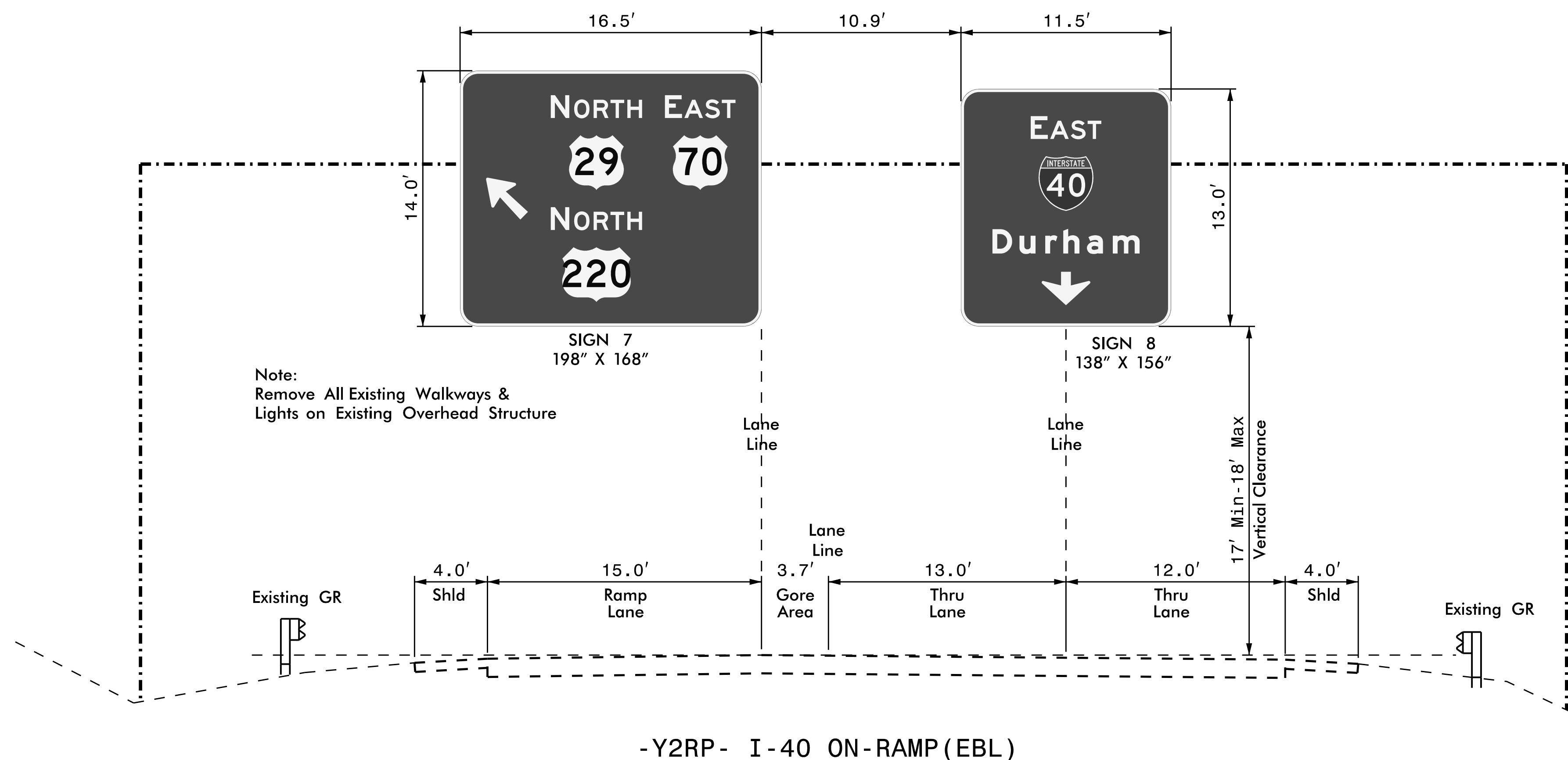
1. THIS IS A SCHEMATIC REPRESENTATION OF AN EXISTING STRUCTURE BASED ON RECORD DATA AND NOT A FIELD SURVEY. THIS INFORMATION IS SHOWN FOR THE PURPOSE OF ALIGNING THE NEW SIGNS OVER THE APPROPRIATE TRAVEL LANES.
2. REPLACEMENT SIGNS FOR THIS EXISTING STRUCTURE ARE INTENDED TO RESULT IN LESS SIGN SQUARE FOOTAGE, AND THEREFORE LESS WIND LOAD, THAN CURRENTLY EXISTS ON THIS STRUCTURE. THE CONTRACTOR SHALL FIELD VERIFY THE SQUARE FOOTAGE OF THE EXISTING SIGNS AND VERIFY THAT THE REPLACEMENT SIGNS RESULT IN LESS SQUARE FOOTAGE. THIS INFORMATION SHALL BE VERIFIED BEFORE FABRICATION OF THE REPLACEMENT SIGNS.
3. SEE STANDARD 904-3(B)(3) FOR REQUIREMENTS OF NEW STRUCTURAL MEMBERS, MOUNTING HARDWARE FOR NEW SIGNS, SHOP DRAWINGS, BRACING AND ACCESSORY HARDWARE FOR ATTACHMENTS.
4. SEE NCDOT STANDARD SPECIFICATIONS, SECTION 1076-6, FOR REPAIR OF GALVANIZING.
5. WHERE POSSIBLE, MOUNT NEW SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE AND MAINTAIN A MINIMUM CLEARANCE OF 17 FEET (18 FEET MAXIMUM) BETWEEN THE HIGH POINT OF THE ROADWAY AND THE BOTTOM OF THE SIGN.
6. REMOVE ALL EXISTING WALKWAY STRUCTURES.

**EXISTING OVERHEAD SIGN  
STRUCTURE #3  
(See Sheet SIGN-7)**

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

# EXISTING OVERHEAD SIGN STRUCTURE #5 (-Y2RP- Sta. 11+55 +/-)

TIP NO. U-5754	SHEET NO. SIGN-3C
APPROVED: _____	
DATE: _____	
	
1/16/2019	
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**NOTES:**

1. THIS IS A SCHEMATIC REPRESENTATION OF AN EXISTING STRUCTURE BASED ON RECORD DATA AND NOT A FIELD SURVEY. THIS INFORMATION IS SHOWN FOR THE PURPOSE OF ALIGNING THE NEW SIGNS OVER THE APPROPRIATE TRAVEL LANES.
2. REPLACEMENT SIGNS FOR THIS EXISTING STRUCTURE ARE INTENDED TO RESULT IN LESS SIGN SQUARE FOOTAGE, AND THEREFORE LESS WIND LOAD, THAN CURRENTLY EXISTS ON THIS STRUCTURE. THE CONTRACTOR SHALL FIELD VERIFY THE SQUARE FOOTAGE OF THE EXISTING SIGNS AND VERIFY THAT THE REPLACEMENT SIGNS RESULT IN LESS SQUARE FOOTAGE. THIS INFORMATION SHALL BE VERIFIED BEFORE FABRICATION OF THE REPLACEMENT SIGNS.
3. SEE STANDARD 904-3(B)(3) FOR REQUIREMENTS OF NEW STRUCTURAL MEMBERS, MOUNTING HARDWARE FOR NEW SIGNS, SHOP DRAWINGS, BRACING AND ACCESSORY HARDWARE FOR ATTACHMENTS.
4. SEE NCDOT STANDARD SPECIFICATIONS, SECTION 1076-6, FOR REPAIR OF GALVANIZING.
5. WHERE POSSIBLE, MOUNT NEW SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE AND MAINTAIN A MINIMUM CLEARANCE OF 17 FEET (18 FEET MAXIMUM) BETWEEN THE HIGH POINT OF THE ROADWAY AND THE BOTTOM OF THE SIGN.
6. REMOVE ALL EXISTING WALKWAY STRUCTURES AND LIGHTING FIXTURES.

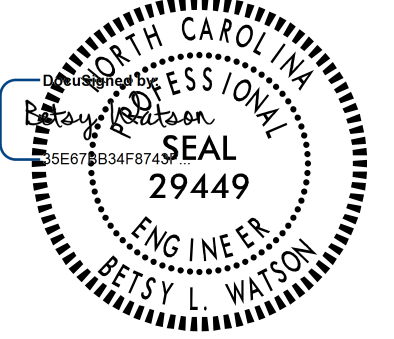

**EXISTING OVERHEAD SIGN  
STRUCTURE #5  
(See Sheet SIGN-8)**

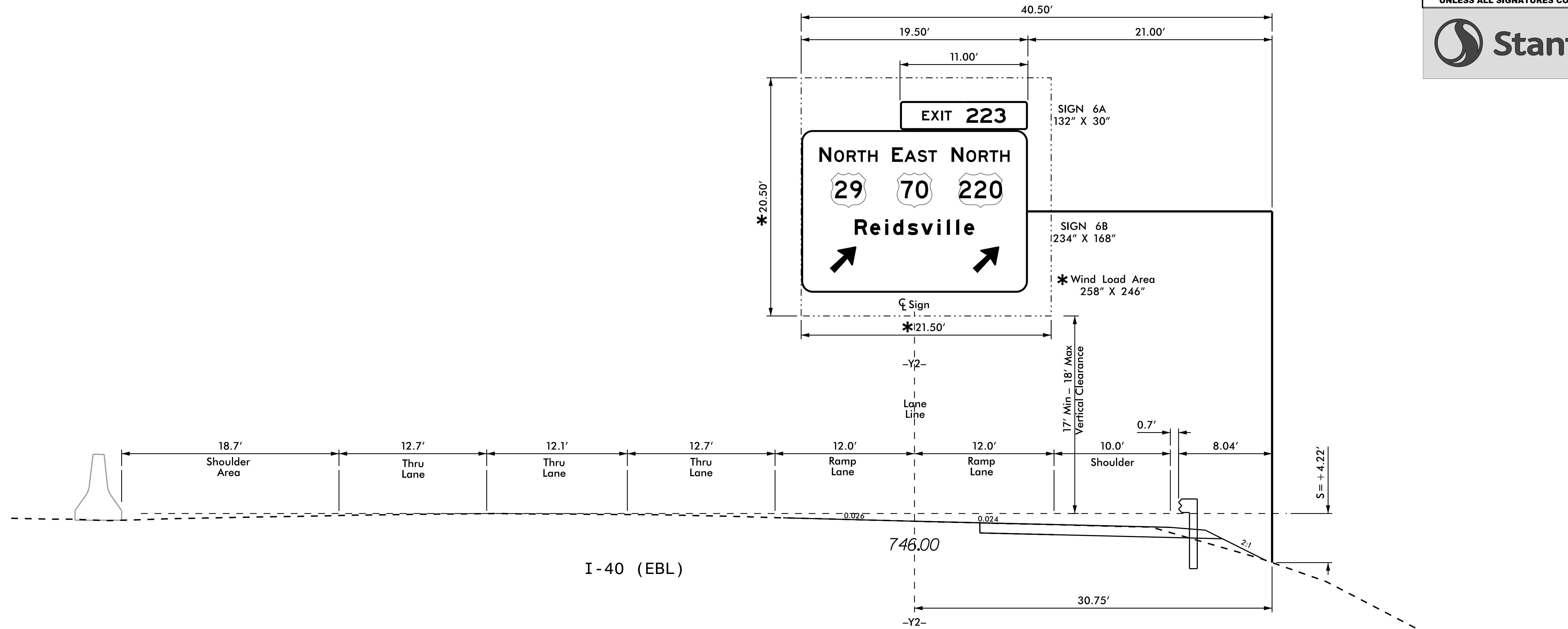
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 \$\$\$DCN\$\$\$\$\$  
 \$\$\$USERNAM\$\$\$\$\$



# OVERHEAD SIGN STRUCTURE 'A'

I-40 EBL @ Exit 223  
 -Y2- STA. 12+69  
 (Crossection @ -Y2- Sta. 12+50)

TIP NO. U-5754	SHEET NO. SIGN-3D
APPROVED: _____	
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**NOTES:**

- IF THE 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 STRUCTURE 'A'**  
**(I-40 EBL @ EXIT 223)**  
**-Y2- STA. 12+69**

\$\$\$SYSTEMTIME\$\$\$  
 \$\$\$DGN\$\$\$  
 \$\$\$USERNAM\$\$\$

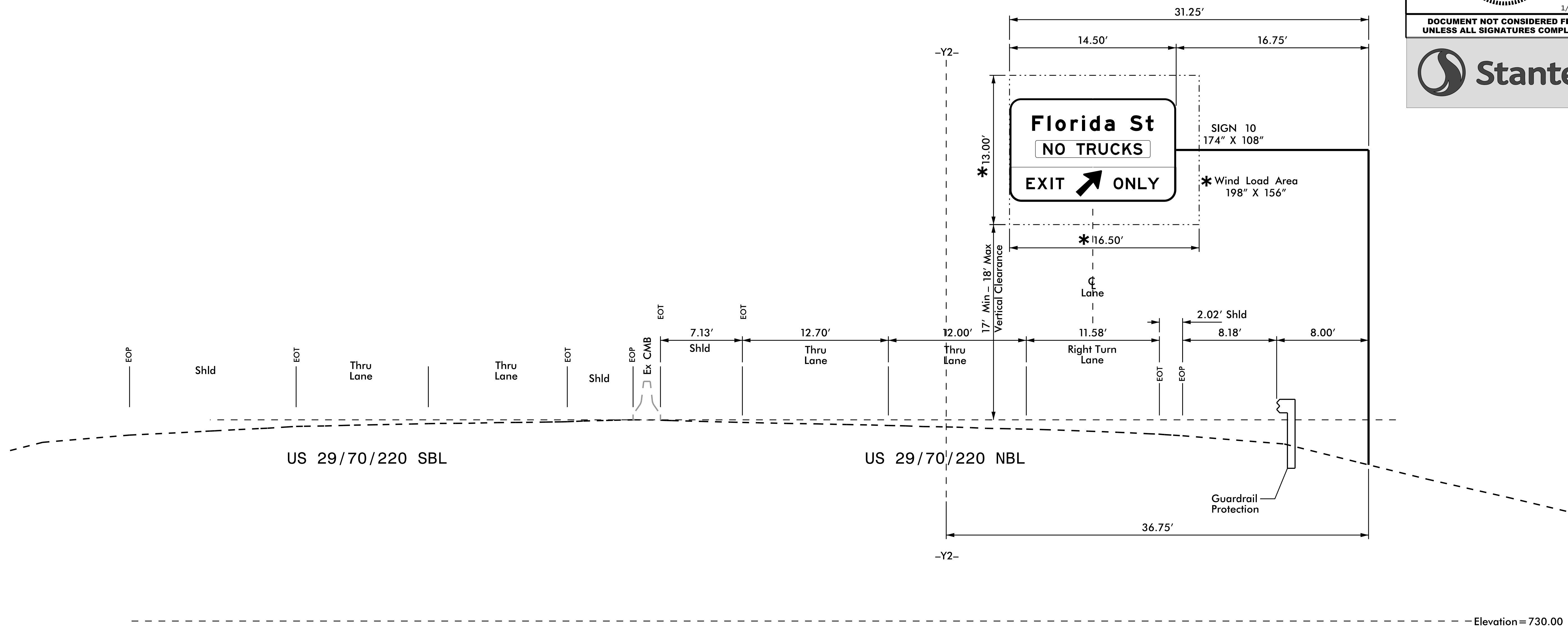




# OVERHEAD SIGN STRUCTURE 'C'

US 29/70/220 NBL  
 -Y2- STA. 49+43  
 (Crossection @ -Y2- Sta. 49+40)

TIP NO. U-5754	SHEET NO. SIGN-3F
APPROVED: _____	
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**NOTES:**

- IF THE 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 STRUCTURE 'C'**  
**(US 29/70/220 NBL)**  
**-Y2- STA. 49+43**

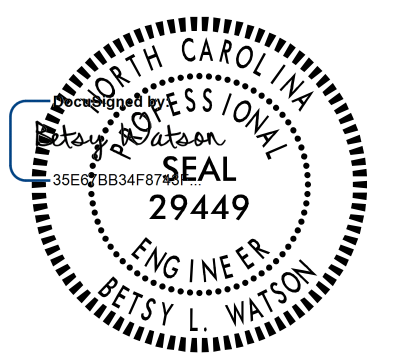

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 \$\$\$\$DGN\$\$\$\$\$  
 \$\$\$USERNAM\$\$\$\$\$

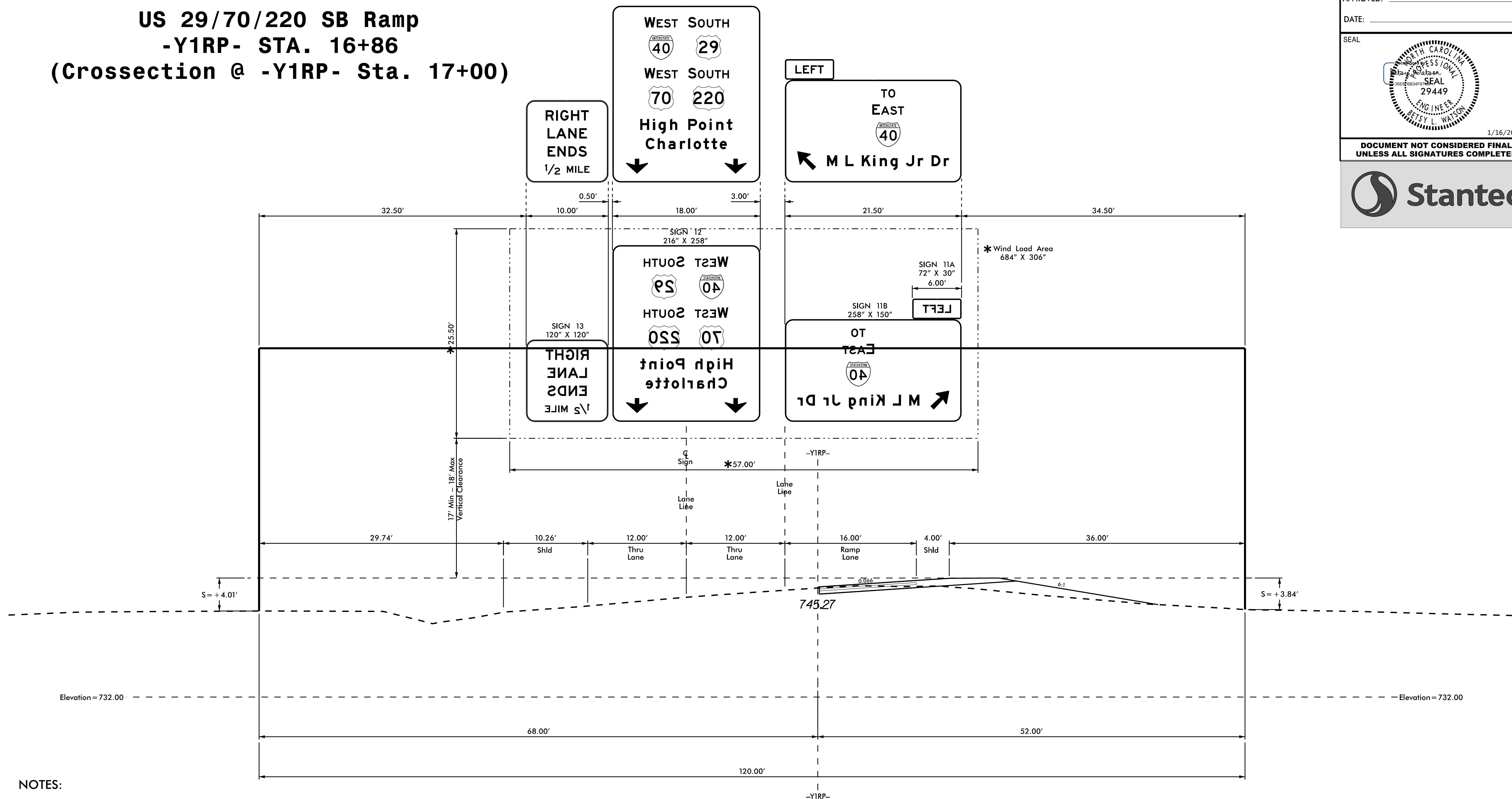
# OVERHEAD SIGN STRUCTURE 'D'

US 29/70/220 SB Ramp

-Y1RP- STA. 16+86

(Crossection @ -Y1RP- Sta. 17+00)

TIP NO. U-5754	SHEET NO. SIGN-3G
APPROVED: _____	
DATE: _____	
SEAL  1/16/2019 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED 	



**NOTES:**

- IF THE 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 STRUCTURE 'D'**  
**(US 29/70/220 SB Ramp)**  
**-Y1RP- STA. 16+86**

\$\$\$\$\$SYTIME\$\$\$\$\$  
 \$\$\$DDGN\$\$\$\$\$  
 \$\$\$USERNAME\$\$\$\$\$





**SIGN NUMBER: 3B**      **BACKG COLOR: Green**      **PROJECT ID: U-5754**      **CHECKED BY: Name**      **DIVISION: 7**  
**TYPE: A**      **COPY COLOR: White**      **DESIGN BY: James Hambricht**      **DATE: Dec 11, 2018**  
**QUANTITY: 1**      **LOCATION: Existing Overhead Sign Structure #2**

SYMBOL	X	Y	WID	HT

**SIGN WIDTH: 18'-0"**  
**HEIGHT: 6'-6"**  
**TOTAL AREA: 117.0 Sq.Ft.**

**BORDER TYPE: FLUSH**  
**RECESS: 0"**  
**WIDTH: 2"**  
**RADII: 10"**

**MAT'L: 0.125" (3.2 mm) ALUMINUM**

**No. Z BARS: 2**  
**LENGTH: 208.0**

**NOTES:**

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

Panel Style: guide\_fw\_overhead.ssi  
M.U.T.C.D.: 2009 Edition

Spacing Factor is 1 unless specified otherwise

**LETTER POSITIONS**

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	178.4
E 2000	65.1

FILENAME: U-5754 Sign Designs      **NORTH CAROLINA D.O.T. SIGN DETAIL**

**SIGN NUMBER: 4B**      **BACKG COLOR: Green**      **PROJECT ID: U-5754**      **CHECKED BY: Name**      **DIVISION: 7**  
**TYPE: A**      **COPY COLOR: White**      **DESIGN BY: James Hambricht**      **DATE: Oct 18, 2018**  
**QUANTITY: 1**      **LOCATION: Existing Overhead Sign Structure #3**

SYMBOL	X	Y	WID	HT
M1_4	30.8	100	36	36
M1_4	99	100	36	36
M1_4	162.7	100	45	36
ARDOWN	101	12	32	22

**SIGN WIDTH: 19'-6"**  
**HEIGHT: 15'-0"**  
**TOTAL AREA: 292.5 Sq.Ft.**

**BORDER TYPE: FLUSH**  
**RECESS: 0"**  
**WIDTH: 2"**  
**RADII: 12"**

**MAT'L: 0.125" (3.2 mm) ALUMINUM**

**No. Z BARS: 6**  
**LENGTH: 226.0**

**NOTES:**

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

Panel Style: guide\_fw\_overhead.ssi  
M.U.T.C.D.: 2009 Edition

Spacing Factor is 1 unless specified otherwise

**LETTER POSITIONS**

Letter spacings are to start of next letter

Series/Size	Text Length
E 2000	59.9
E 2000	46.4
E 2000	59.9
EM 2000	123.4
E 2000	65.1

FILENAME: U-5754 Sign Designs      **NORTH CAROLINA D.O.T. SIGN DETAIL**

**SIGN NUMBER: 5B**      **BACKG COLOR: Green**      **PROJECT ID: U-5754**      **CHECKED BY: Name**      **DIVISION: 7**  
**TYPE: A**      **COPY COLOR: White**      **DESIGN BY: James Hambricht**      **DATE: Dec 11, 2018**  
**QUANTITY: 1**      **LOCATION: Existing Overhead Sign Structure #3**

SYMBOL	X	Y	WID	HT
AR_Type A	212.4	19.2	22.2	35

**SIGN WIDTH: 21'-6"**  
**HEIGHT: 5'-6"**  
**TOTAL AREA: 118.3 Sq.Ft.**

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

**MAT'L: 0.125" (3.2 mm) ALUMINUM**

**No. Z BARS: 2**  
**LENGTH: 250.0**

**NOTES:**

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

Panel Style: guide\_fw\_overhead.ssi  
M.U.T.C.D.: 2009 Edition

Spacing Factor is 1 unless specified otherwise

**LETTER POSITIONS**

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	178.4

FILENAME: U-5754 Sign Designs      **NORTH CAROLINA D.O.T. SIGN DETAIL**

**SIGN NUMBER: 6B**      **BACKG COLOR: Green**      **PROJECT ID: U-5754**      **CHECKED BY: Name**      **DIVISION: 7**  
**TYPE: A**      **COPY COLOR: White**      **DESIGN BY: James Hambricht**      **DATE: Oct 18, 2018**  
**QUANTITY: 1**      **LOCATION: Proposed Overhead Sign Structure "A" (-Y2- Sta. 12+69)**

SYMBOL	X	Y	WID	HT
M1_4	30.8	87.9	36	36
M1_4	99	87.9	36	36
M1_4	162.7	87.9	45	36
AR_Type A	29.5	20.3	22.2	35
AR_Type A	177	20.3	22.2	35

**SIGN WIDTH: 19'-6"**  
**HEIGHT: 14'-0"**  
**TOTAL AREA: 273.0 Sq.Ft.**

**BORDER TYPE: FLUSH**  
**RECESS: 0"**  
**WIDTH: 2"**  
**RADII: 12"**

**MAT'L: 0.125" (3.2 mm) ALUMINUM**

**No. Z BARS: 4**  
**LENGTH: 226.0**

**NOTES:**

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

Panel Style: guide\_fw\_overhead.ssi  
M.U.T.C.D.: 2009 Edition

Spacing Factor is 1 unless specified otherwise

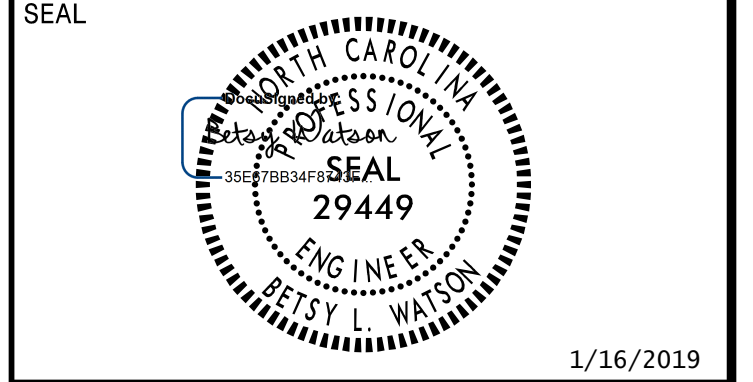
**LETTER POSITIONS**

Letter spacings are to start of next letter

Series/Size	Text Length
E 2000	59.9
E 2000	46.4
E 2000	59.9
EM 2000	123.4

FILENAME: U-5754 Sign Designs      **NORTH CAROLINA D.O.T. SIGN DETAIL**

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



1/16/2019  
**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**



\$\$\$\$\$SYTIME\$\$\$\$\$  
\$\$\$\$\$DDGN\$\$\$\$\$  
\$\$\$\$\$USERNAM\$\$\$\$\$

**SIGN DESIGNS**

**SIGN NUMBER: 7**

TYPE: A  
QUANTITY: 1

BACKG COLOR: Green  
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	71.6	89.7	36	36
M1_4	139.7	89.6	36	36
AR_Type A	17.1	70.2	22.2	35
M1_4	67.1	16.1	45	36

MAT'L: 0.125" (3.2 mm) ALUMINUM

NOTES:

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

PROJECT ID: U-5754  
DESIGN BY: James Hambright  
LOCATION: Existing Overhead Sign Structure #5

CHECKED BY: Name  
DIVISION: 7  
DATE: Oct 18, 2019

Panel Style: guide\_fw\_overhead.ssi  
M.U.T.C.D.: 2009 Edition  
Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

	N	O	R	T	H	Series/Size	
59.6	12.2	3.1	12.8	11	9.7	78.5	E 2000
	E	A	S	T			59.9
134.5	11.3	1.5	13.6	11	9	17.1	E 2000
	N	O	R	T	H		46.4
59.6	12.2	3.1	12.8	11	9.7	78.5	E 2000
							59.9

FILENAME: U-5754 Sign Designs  
NORTH CAROLINA D.O.T. SIGN DETAIL

**SIGN NUMBER: 8**

TYPE: A  
QUANTITY: 1

BACKG COLOR: Green  
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_1	51	75.9	36	36
ARDOWN	5.3	13.9	32	22

MAT'L: 0.125" (3.2 mm) ALUMINUM

NOTES:

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

PROJECT ID: U-5754  
DESIGN BY: James Hambright  
LOCATION: Existing Overhead Sign Structure #5

CHECKED BY: Name  
DIVISION: 7  
DATE: Oct 18, 2019

Panel Style: guide\_fw\_overhead.ssi  
M.U.T.C.D.: 2009 Edition  
Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

	E	A	S	T	Series/Size			
45.8	11.3	1.5	13.6	11	9	45.8	E 2000	
	D	u	r	h	o	m	46.4	
20.7	17.8	17	11.8	15.5	17	17.6	20.7	EM 2000
							96.6	

FILENAME: U-5754 Sign Designs  
NORTH CAROLINA D.O.T. SIGN DETAIL

**SIGN NUMBER: 9**

TYPE: A  
QUANTITY: 1

BACKG COLOR: Green  
COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARDOWN	68.4	8	32	22

MAT'L: 0.125" (3.2 mm) ALUMINUM

NOTES:

- Legend and border shall be direct applied, Grade "A" sheeting (except those that are colored black).
- Background shall be Grade "C" reflective sheeting.
- Shields and Type "A", "B", and "C" Arrows shall be demountable and made from 0.032" (0.8mm) aluminum.
- Bottom panel shall be yellow, Grade "C" sheeting. Legend shall be direct applied, non-reflective, black sheeting. Yellow panel is 174" X 36".
- "NO TRUCKS" panel shall be yellow, Grade "C" sheeting. Legend shall be black, direct applied, non-reflective sheeting. Panel size shall be 120" X 18".

PROJECT ID: U-5754  
DESIGN BY: James Hambright  
LOCATION: Proposed Overhead Sign Structure "B" (-Y2- Sta. 23+61)

CHECKED BY: Name  
DIVISION: 7  
DATE: Oct 18, 2019

Panel Style: guide\_fw\_intermediate.ssi  
M.U.T.C.D.: 2009 Edition  
Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

	F	l	o	r	i	d	a	S	t	Series/Size		
23.6	16.2	8.2	15.8	11.8	8.2	15.5	10.6	16	16.3	8.3	23.6	EM 2000
	1/2	M	I	L	E							126.9
54.5	22	10	12	4.4	9.2	7.5	54.5					E 2000
	N	O	T	R	U	C	K	S				65.1
35.2	12.5	10.1	12	11	12.1	12.5	11.2	9.7	35.2			E 2000
	E	X	I	T								103.6
13.8	11.4	13.9	5.1	9	120.6							E 2000
	O	N	L	Y								39.5
112.4	12.8	12.8	9.9	12.2	13.8							E 2000
												47.8

FILENAME: U-5754 Sign Designs  
NORTH CAROLINA D.O.T. SIGN DETAIL

**SIGN NUMBER: 10**

TYPE: A  
QUANTITY: 1

BACKG COLOR: Green  
COPY COLOR: White

SYMBOL	X	Y	WID	HT
AR_Type A	69.1	4.7	22.2	35

MAT'L: 0.125" (3.2 mm) ALUMINUM

NOTES:

- Legend and border shall be direct applied, Grade "A" sheeting (except those that are colored black).
- Background shall be Grade "C" reflective sheeting.
- Shields and Type "A", "B", and "C" Arrows shall be demountable and made from 0.032" (0.8mm) aluminum.
- Bottom panel shall be yellow, Grade "C" sheeting. Legend shall be direct applied, non-reflective, black sheeting. Yellow panel is 174" X 36".
- "NO TRUCKS" panel shall be yellow, Grade "C" sheeting. Legend shall be black, direct applied, non-reflective sheeting. Panel size shall be 120" X 18".

PROJECT ID: U-5754  
DESIGN BY: James Hambright  
LOCATION: Proposed Overhead Sign Structure "C" (-Y2- Sta. 49+43)

CHECKED BY: Name  
DIVISION: 7  
DATE: Oct 18, 2019

Panel Style: guide\_fw\_intermediate.ssi  
M.U.T.C.D.: 2009 Edition  
Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

	F	l	o	r	i	d	a	S	t	Series/Size		
23.6	16.2	8.2	15.8	11.8	8.2	15.5	10.6	16	16.3	8.3	23.6	EM 2000
	N	O	T	R	U	C	K	S				126.9
35.2	12.5	10.1	12	11	12.1	12.5	11.2	9.7	35.2			E 2000
	E	X	I	T								103.6
17.6	11.4	13.9	5.1	9	116.9							E 2000
	O	N	L	Y								39.5
108.6	12.8	12.8	9.9	12.2	17.6							E 2000
												47.8

FILENAME: U-5754 Sign Designs  
NORTH CAROLINA D.O.T. SIGN DETAIL

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

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1/16/2019

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\$\$\$\$\$USERNAM\$\$\$\$\$



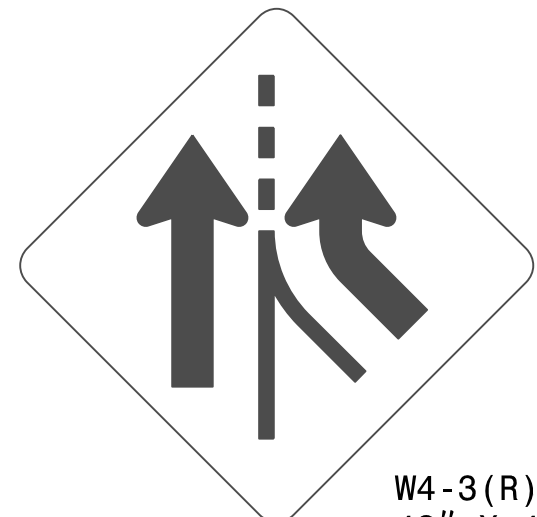








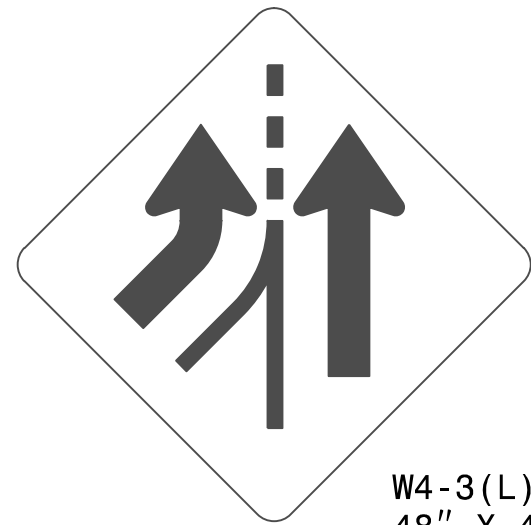
401 QUANTITY REQ'D 1\_



W4-3(R)  
48" X 48"

TWO "U" POSTS PER SIGN

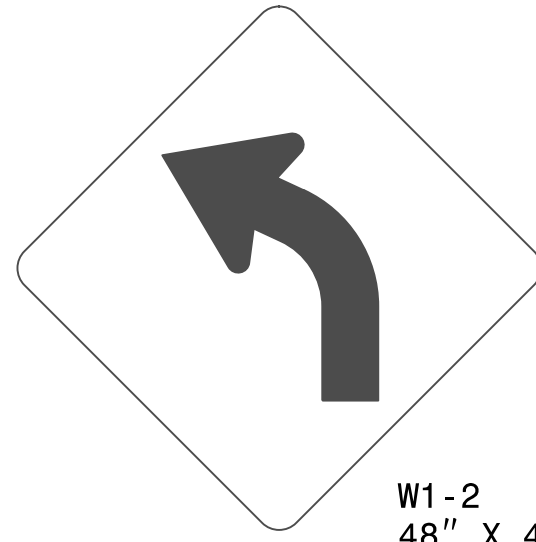
402 QUANTITY REQ'D 1\_



W4-3(L)  
48" X 48"

TWO "U" POSTS PER SIGN

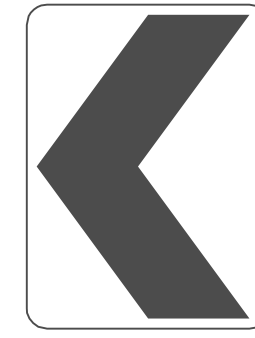
403 QUANTITY REQ'D 1\_



W1-2  
48" X 48"

TWO "U" POSTS PER SIGN

404 QUANTITY REQ'D 8\_

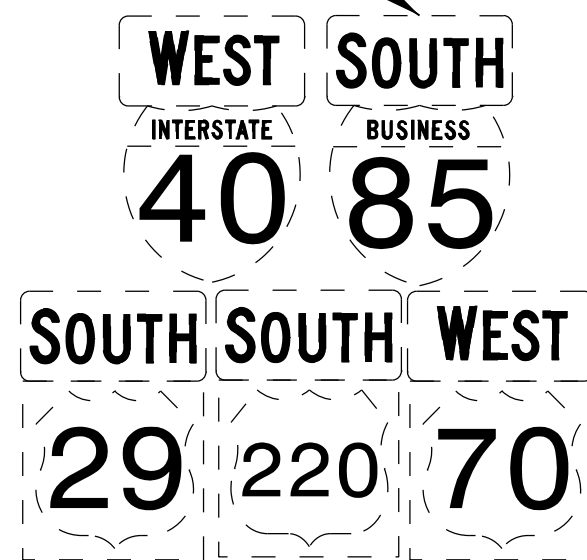


W1-8(L)  
30" X 36"

ONE "U" POST PER SIGN

501 QUANTITY REQ'D 1\_

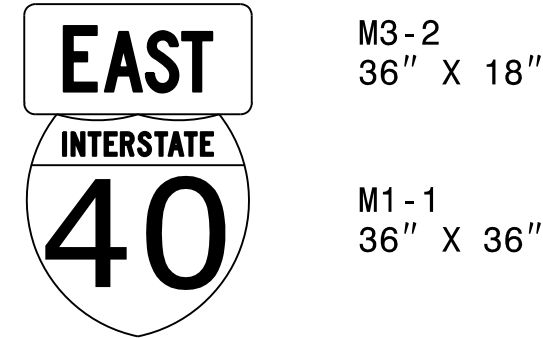
REMOVE I-85 BUSINESS SHIELD AND CARDINAL DIRECTION PANEL FROM EXISTING ASSEMBLY



NOTE:  
EXISTING SIGN ASSEMBLY IS MOUNTED ON TWO WOODEN POSTS WITH U-CHANNEL SUPPORT BRACING

502 QUANTITY REQ'D 1\_

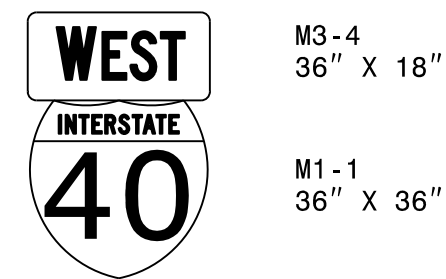
(2 "U" POSTS PER ASSMBLY)



TWO "U" POSTS PER SIGN

503 QUANTITY REQ'D 1\_

(2 "U" POSTS PER ASSMBLY)



TWO "U" POSTS PER SIGN

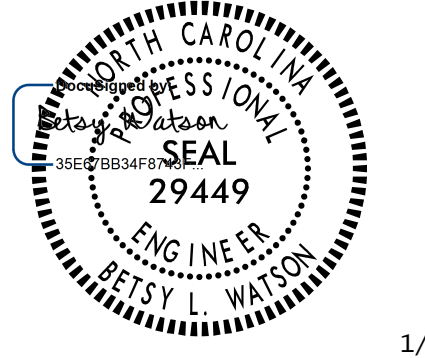
TIP NO. SHEET NO.

U-5754 SIGN-4F

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

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

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1/16/2019

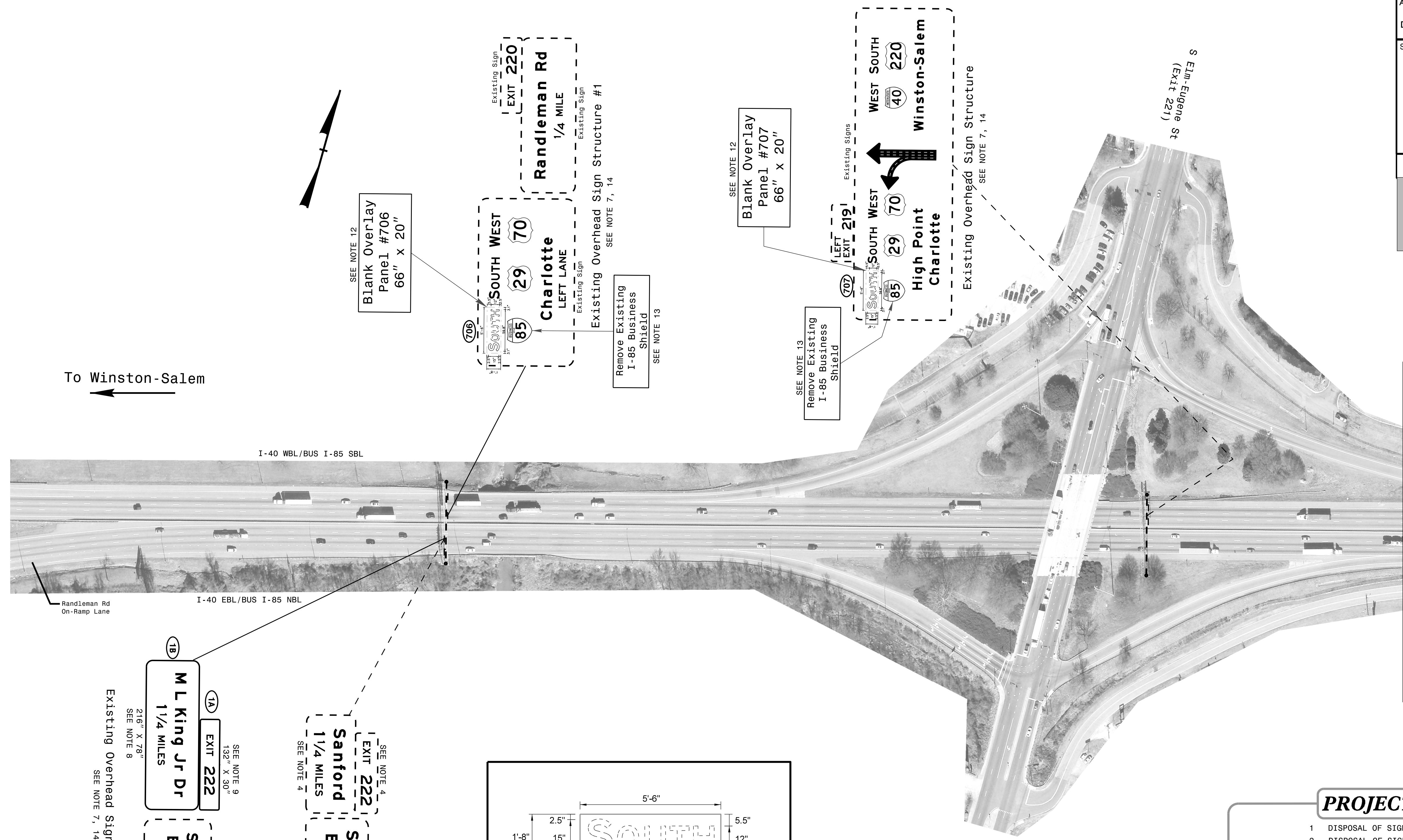
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



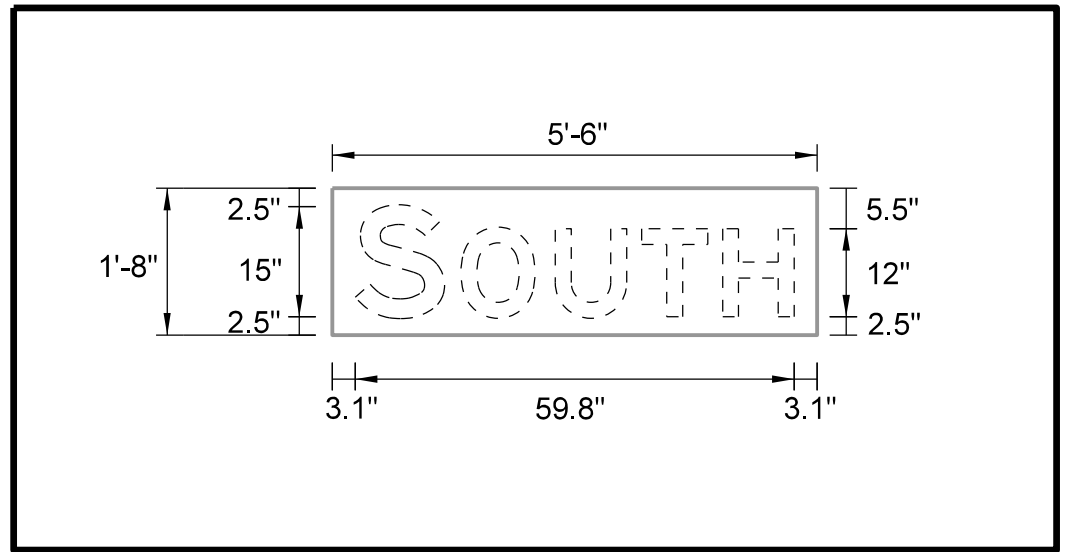
TYPE "E" & "F" SIGNS



TIP NO. U-5754	SHEET NO. SIGN-5
APPROVED: _____	
DATE: _____	
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MATCHLINE SHEET SIGN-6



Overlay Placement Detail  
Overlay Panel #706 & #707  
(66" x 20")

**PROJECT NOTES**

- 1 DISPOSAL OF SIGN SYSTEM, OVERHEAD
- 2 DISPOSAL OF SIGN SYSTEM, STEEL BEAM
- 3 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 4 DISPOSAL OF SIGN, A OR B (OVERHEAD)
- 5 DISPOSAL OF SIGN, D, E OR F
- 6 DISPOSAL OF LIGHTING SYSTEM
- 7 DISPOSAL OF WALKWAY
- 8 SIGN ERECTION, TYPE A (OVERHEAD)
- 9 SIGN ERECTION, TYPE B (OVERHEAD)
- 10 SIGN ERECTION, TYPE A (GROUND MOUNTED)
- 11 SIGN ERECTION, TYPE D, E, AND F
- 12 SIGN ERECTION, OVERLAY (OVERHEAD)
- 13 DISPOSAL OF OVERLAY (OVERHEAD)
- 14 CUTTING OF SIGN HANGERS (OVERHEAD)

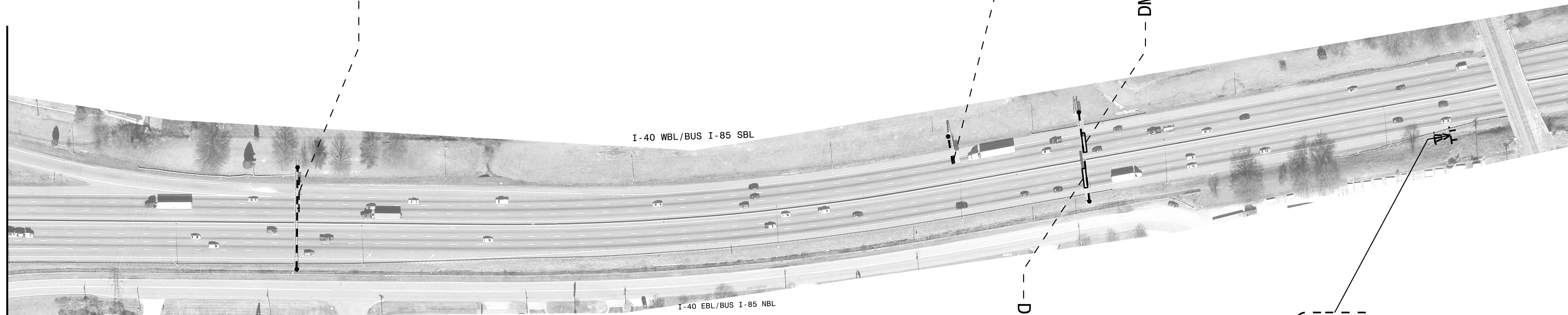
EXISTING/PROPOSED SIGNING  
EXISTING OVERHEAD SIGN STRUCTURE #1

\$\$\$\$\$SYTIME\$\$\$\$\$  
\$\$\$\$\$DDGN\$\$\$\$\$  
\$\$\$\$\$USERNAM\$\$\$\$\$



TIP NO. U-5754	SHEET NO. SIGN-6
APPROVED: _____	
DATE: _____	
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1/16/2019	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCHLINE SHEET SIGN-5



Existing Sign  
EXIT 220  
Randleman Rd  
1/2 MILE  
Existing Sign

Existing Sign  
EXIT 221  
South Elm-  
Eugene St  
DOWNTOWN  
Existing Sign

Existing Sign  
EXIT 221  
South Elm-  
Eugene St  
DOWNTOWN  
1/4 MILE  
Existing Sign

Existing Sign  
Liberty  
Siler City  
EXIT 222  
Existing Sign

MATCHLINE -X1- STA. 11+00 SEE SHEET SIGN-7

### PROJECT NOTES

- 1 DISPOSAL OF SIGN SYSTEM, OVERHEAD
- 2 DISPOSAL OF SIGN SYSTEM, STEEL BEAM
- 3 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 4 DISPOSAL OF SIGN, A OR B (OVERHEAD)
- 5 DISPOSAL OF SIGN, D, E OR F
- 6 DISPOSAL OF LIGHTING SYSTEM
- 7 DISPOSAL OF WALKWAY
- 8 SIGN ERECTION, TYPE A (OVERHEAD)
- 9 SIGN ERECTION, TYPE B (OVERHEAD)
- 10 SIGN ERECTION, TYPE A (GROUND MOUNTED)
- 11 SIGN ERECTION, TYPE D, E, AND F
- 12 SIGN ERECTION, OVERLAY (OVERHEAD)
- 13 DISPOSAL OF OVERLAY (OVERHEAD)
- 14 CUTTING OF SIGN HANGERS (OVERHEAD)

EXISTING/PROPOSED SIGNING

\$\$\$\$\$SYTIME\$\$\$\$\$  
 \$\$\$DGN\$\$\$\$\$  
 \$\$\$USERNAM\$\$\$\$\$





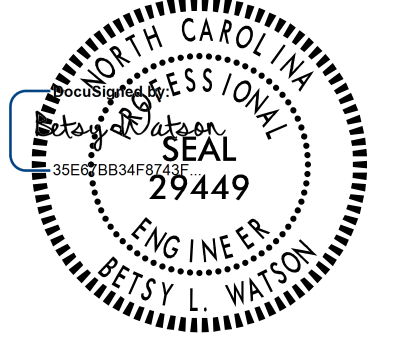



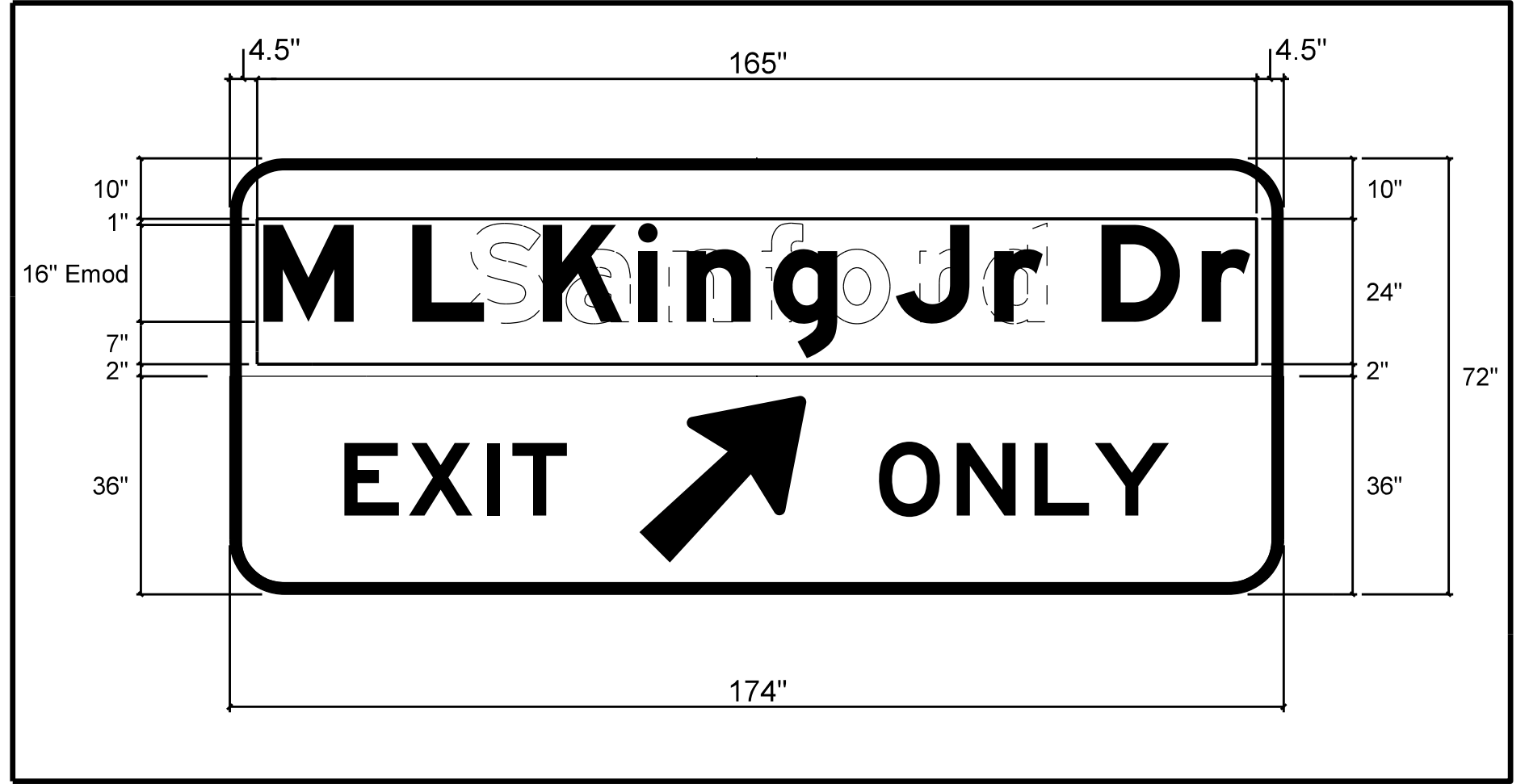
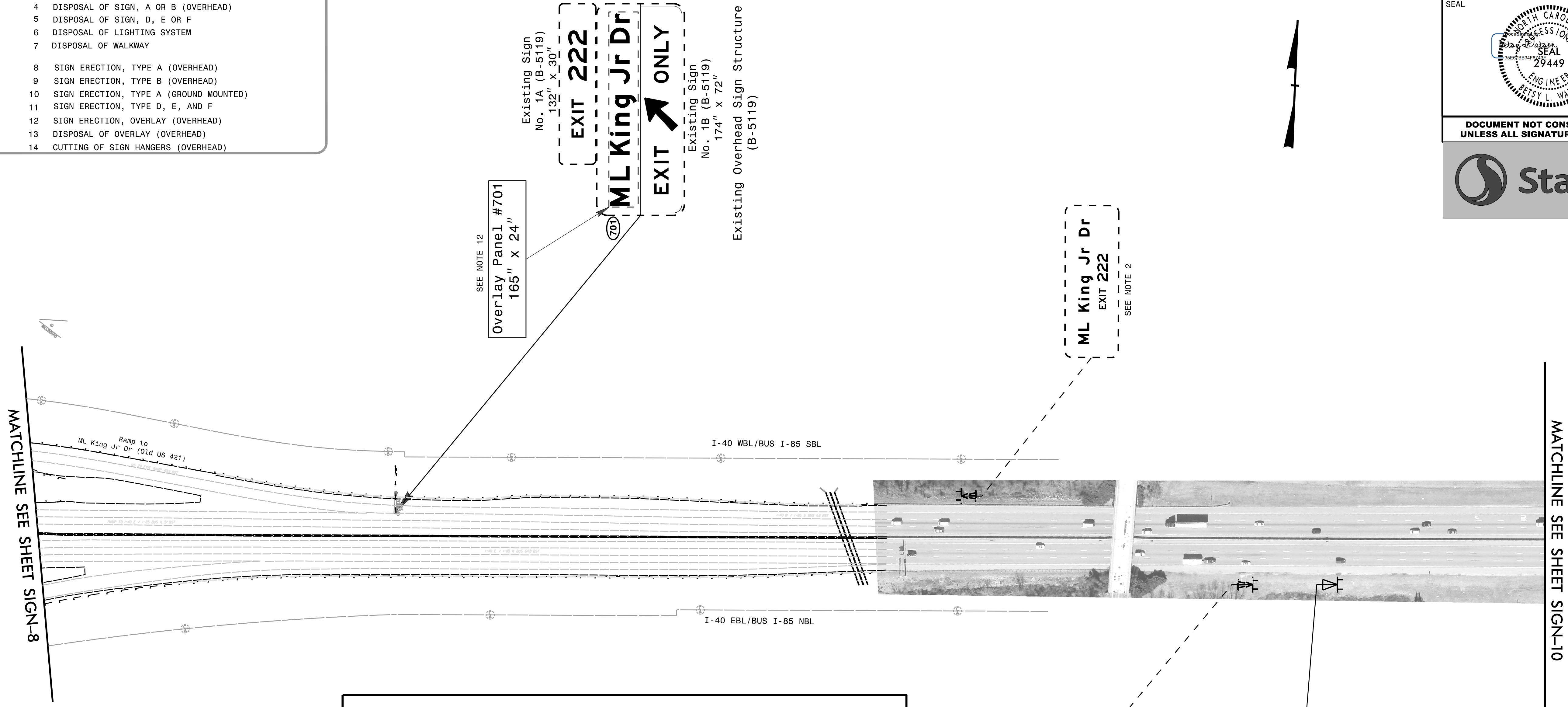




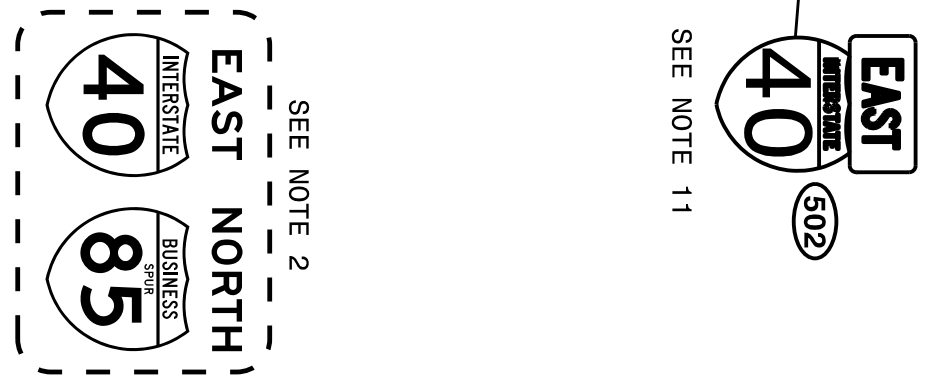
**PROJECT NOTES**

- 1 DISPOSAL OF SIGN SYSTEM, OVERHEAD
- 2 DISPOSAL OF SIGN SYSTEM, STEEL BEAM
- 3 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 4 DISPOSAL OF SIGN, A OR B (OVERHEAD)
- 5 DISPOSAL OF SIGN, D, E OR F
- 6 DISPOSAL OF LIGHTING SYSTEM
- 7 DISPOSAL OF WALKWAY
  
- 8 SIGN ERECTION, TYPE A (OVERHEAD)
- 9 SIGN ERECTION, TYPE B (OVERHEAD)
- 10 SIGN ERECTION, TYPE A (GROUND MOUNTED)
- 11 SIGN ERECTION, TYPE D, E, AND F
- 12 SIGN ERECTION, OVERLAY (OVERHEAD)
- 13 DISPOSAL OF OVERLAY (OVERHEAD)
- 14 CUTTING OF SIGN HANGERS (OVERHEAD)

TIP NO. U-5754	SHEET NO. SIGN-9
APPROVED: _____	
DATE: _____	
SEAL	
	
1/16/2019	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
	



Overlay Placement Detail  
Overlay Panel #701  
(165" x 24")



\$\$\$\$\$SYTIME\$\$\$\$\$  
\$\$\$\$\$DDGN\$\$\$\$\$  
\$\$\$\$\$USERNAM\$\$\$\$\$

EXISTING/PROPOSED SIGNING