


CONTRACT: C204684 T.I.P.: B-3186 / B-5898

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN
HAYWOOD COUNTY**

**LOCATION: US 23/US 74/US 19 (GREAT SMOKY MOUNTAIN HWY)
FROM WEST OF NC 209(CRABTREE RD.) TO EAST OF RUSS AVE.**

TIP NO. B-3186 / B-5898	SHEET NO. SIGN-1
APPROVED: <i>Ron King</i>	
DATE: 3/31/2022	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
901.10	TYPE 'A' SIGNS
901.20	TYPE 'B' SIGNS
901.30	VHB TAPE CONSTRUCTION - FOR TYPE 'A' 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
903.30	BARRIER SIGN SUPPORT ASSEMBLY
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.20	SECONDARY SIGN MOUNTING
904.40	MILEPOST AND PLACEMENT
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS (SHEET 2 OF 2)
910.50	SIGNING FOR SPEED REDUCTION ZONE

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.
- 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.

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4048000000	902	REINFORCED CONCRETE SIGN FOUNDATION	10	C.Y.
4054000000	902	PLAIN CONCRETE SIGN FOUNDATION	1	C.Y.
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAM	1324	LB.
4066000000	903	SUPPORTS, SIMPLE STEEL BEAM	8562	LB.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	659	L.F.
4078000000	903	SUPPORTS, 2 LB STEEL U-CHANNEL	2	EA.
4079000000	903	SUPPORTS, BARRIER (SMALL)	3	EA.
4080000000	903	SUPPORTS, BARRIER (LARGE)	1	EA.
4082100000	906	SUPPORTS, OVERHEAD SIGN STRUCTURE @ STA 55+00 -L-	1	L.S.
4082100000	906	SUPPORTS, OVERHEAD SIGN STRUCTURE @ STA 66+00 -L-	1	L.S.
4082100000	906	SUPPORTS, OVERHEAD SIGN STRUCTURE @ STA 72+50 -L-	1	L.S.
4096000000	904	SIGN ERECTION, TYPE D	1	EA.
4102000000	904	SIGN ERECTION, TYPE E	26	EA.
4108000000	904	SIGN ERECTION, TYPE F	6	EA.
4109000000	904	SIGN ERECTION, TYPE A (OVERHEAD)	5	EA.
4109000000	904	SIGN ERECTION, TYPE B (OVERHEAD)	5	EA.
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	5	EA.
4110000000	904	SIGN ERECTION, TYPE B (GROUND MOUNTED)	2	EA.
4114000000	904	SIGN ERECTION, MILEMARKERS	2	EA.
4115000000	904	SIGN ERECTION, OVERLAY (OVERHEAD)	1	EA.
4116000000	904	SIGN ERECTION, OVERLAY (GROUND MOUNTED)	1	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE A (GROUND MOUNTED)	2	EA.
4138000000	907	DISPOSAL OF SUPPORT, STEEL BEAM	2	EA.
4149000000	907	DISPOSAL OF SIGN SYSTEM, OVERHEAD	2	EA.
4152000000	907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	5	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	30	EA.
4234000000	907	DISPOSAL OF SIGN, A OR B (OVERHEAD)	4	EA.

PROJECT NOTES

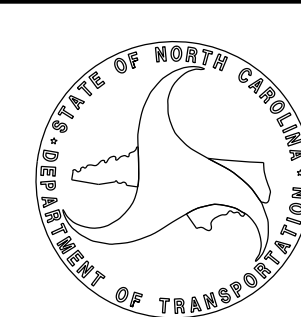
1. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
2. DISPOSAL OF SIGN SYSTEM, STEEL BEAM
3. RELOCATE SIGN, TYPE A (GROUND MOUNTED)
4. DISPOSAL OF SUPPORT, STEEL BEAM
5. DISPOSAL OF SIGN SYSTEM, OVERHEAD
6. DISPOSAL OF SIGN, A OR B (OVERHEAD)
7. SIGN ERECTION, OVERLAY (OVERHEAD)
8. SIGN ERECTION, OVERLAY (GROUND MOUNTED)

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2-2D	SUPPORT INFORMATION
SIGN-3	E, F & MILEMARKERS
SIGN-4-4L	SIGN DESIGNS AND OVERHEAD DETAILS
SIGN-5-10A	SIGN DETAIL SHEETS

PLAN SUBMITTED TO:

WES JAMISON, PE _____ DIVISION PROJECT MANAGER
GARRETT HIGDON _____ ASSISTANT BRIDGE PROGRAM MANAGER

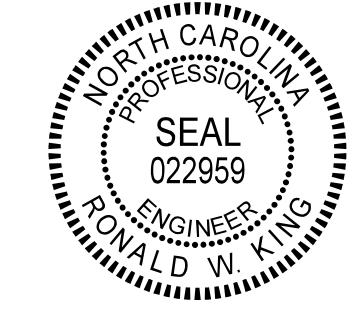


PLAN PREPARED BY: HDR Engineering, Inc. of the Carolinas

RON KING, P.E. _____ PROJECT ENGINEER
RICHARD DRAYTON _____ PROJECT DESIGN ENGINEER



HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

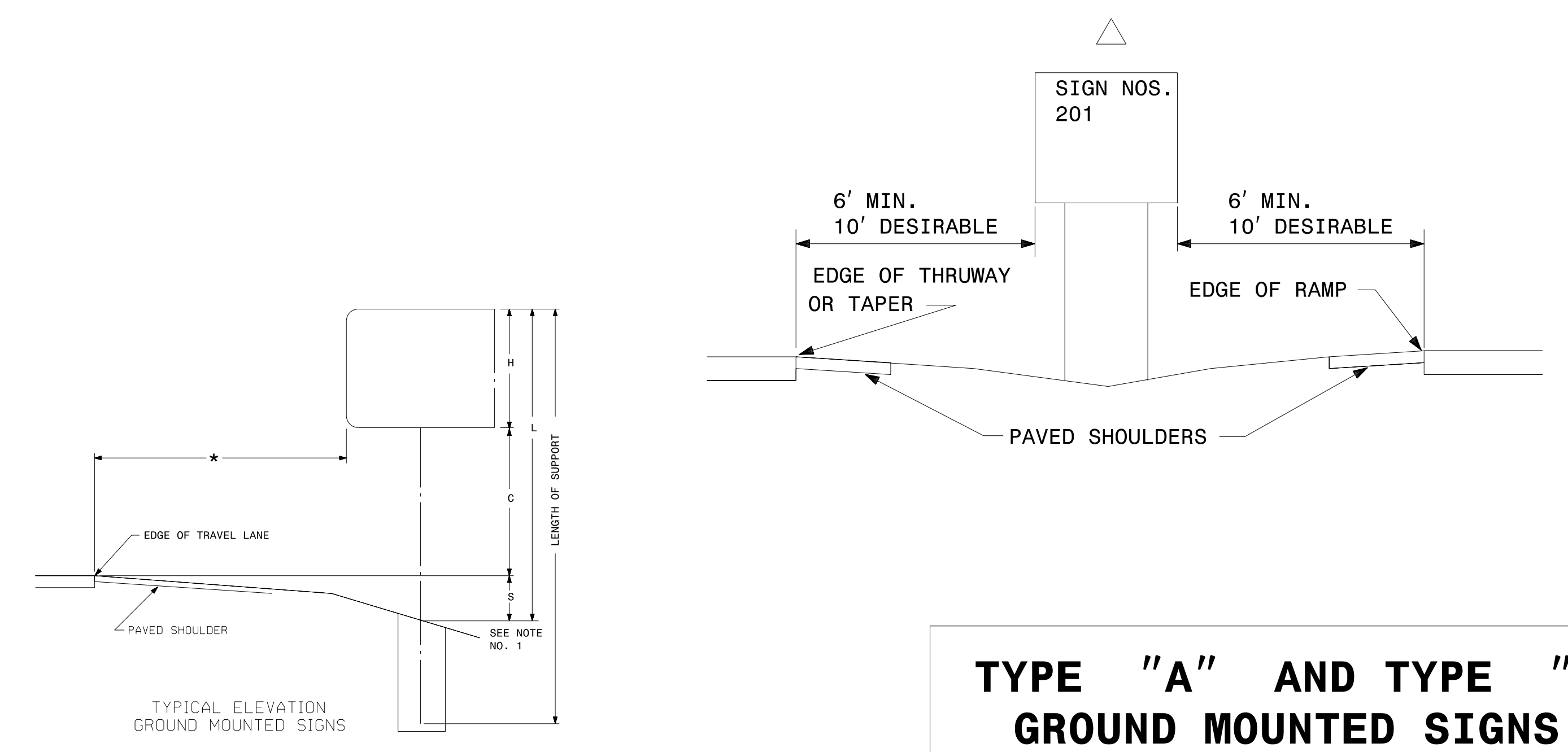
TIP NO. B-3186 / B-5898	SHEET NO. SIGN-2
APPROVED: <i>Ron King</i>	
DATE: 3/16/2022	
	
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Version: 3.1 Posted: 6/2/2017

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)
NUMBER	TYPE	SIZE (in.)												SNS HT	MTG HT	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	228	x	72	64+50-L-	3	W6x9	S	N/A	N/A	N/A	18.00	6.75	6.00	17.60	3.0	-7.90	15.70	18.70	-9.10	14.50	17.50	-10.60	13.00	16.00	0.00	469.8	1.5	3.5	0.69	0.00	
102A	B	132	x	30	26+00 -L-	3	W18x40	S	N/A	1-R	N/A	30.00	7.46	12.00	7.00	4.5	3.53	22.53	27.03	8.51	27.51	32.01	13.48	32.48	36.98	0.00	3840.8	3.0	5	3.93	0.00	
102B	A	252	x	144																												
103	A	144	x	102	74+00 -L-	2	S3x5.7	S	N/A	N/A	N/A	20.00	7.03	8.50	7.00	3.5	-5.30	10.20	13.70	0.00	0.00	0.00	-9.98	5.52	9.02	0.00	129.52338	1.0	4	0.00	0.23	
104A	B	132	x	30	16+00 -L-	2	W18x40	S	N/A	1-R	N/A	19.00	9.08	12.50	7.00	4.5	5.10	24.60	29.10	0.00	0.00	0.00	12.43	31.93	36.43	0.00	2621.2	3.0	5	2.62	0.00	
104B	A	186	x	150																												
201	A	90	x	60	51+92 -L-	2	S3x5.7	BA	N/A	N/A	N/A	Δ	4.40	5.00	7.00	2.5	1.81	13.81	16.31	0.00	0.00	0.00	1.47	13.47	15.97	220.00	0	1.0	3	0.00	0.17	
901	A	180	x	138	37+00 -L-	2	W10x26	S	N/A	N/A	N/A	20.00	8.79	11.50	7.00	4.0	4.14	22.64	26.64	0.00	0.00	0.00	8.54	27.04	31.04	0.00	1499.68	2.5	4.5	1.64	0.00	
902	A	180	x	120	36+00 -L-	2	W8x18	BA	N/A	N/A	N/A	30.00	8.79	10.00	7.00	4.0	6.75	23.75	27.75	0.00	0.00	0.00	4.79	21.79	25.79	1103.72	0	2.0	4.5	1.05	0.00	
																							TOTAL	TOTAL	TOTAL	TOTAL						
																							1323.72	8561.00	9.92	0.41						
																							USE:	1324.00	8562.00	10.00	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.

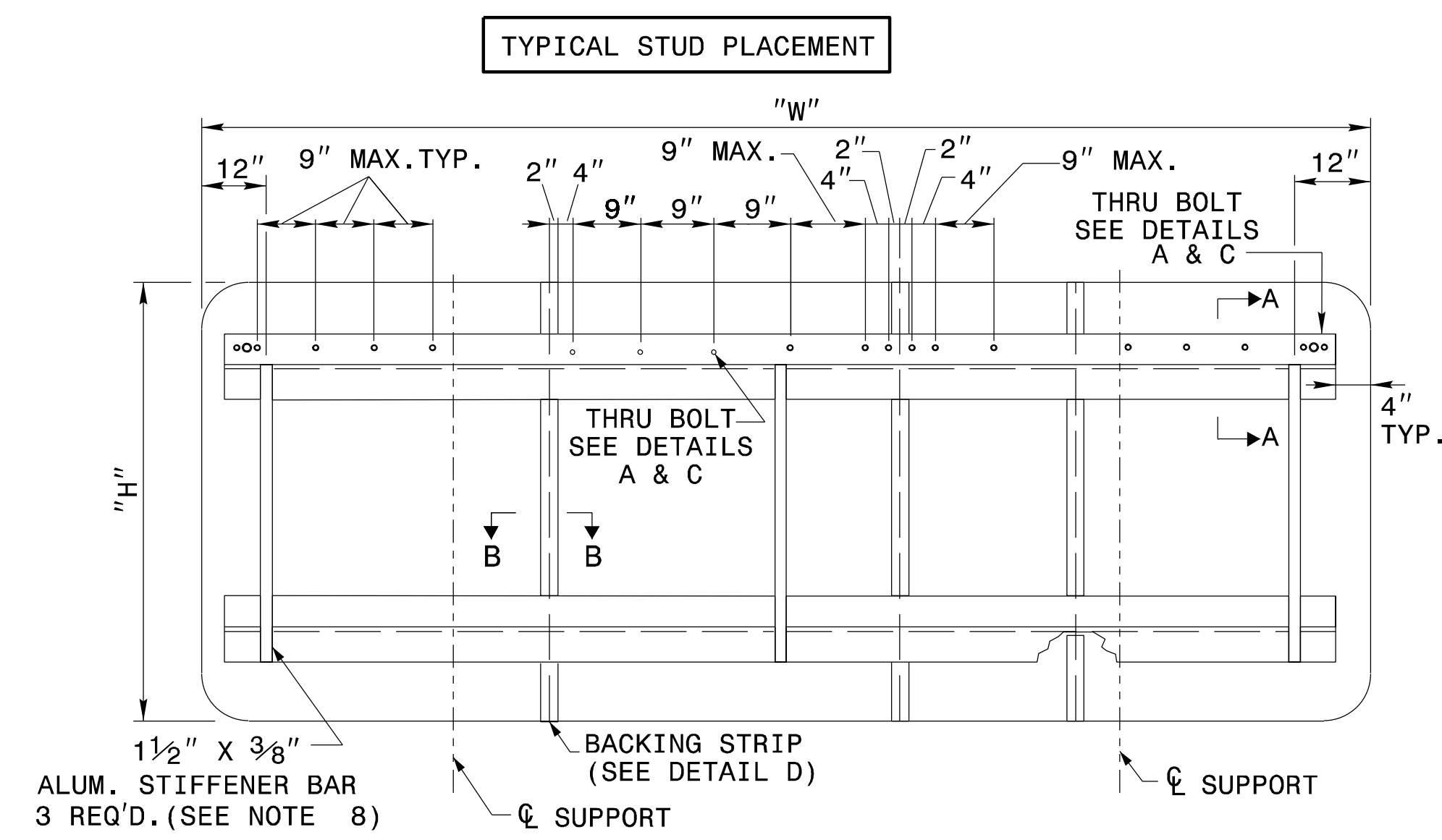


TIP NO. B-3186 / B-5898	SHEET NO. SIGN-2A
APPROVED: <i>Matthew V. Springer</i> DATE: 3/21/2019 BC80F8E8B584403...	
SEAL 	

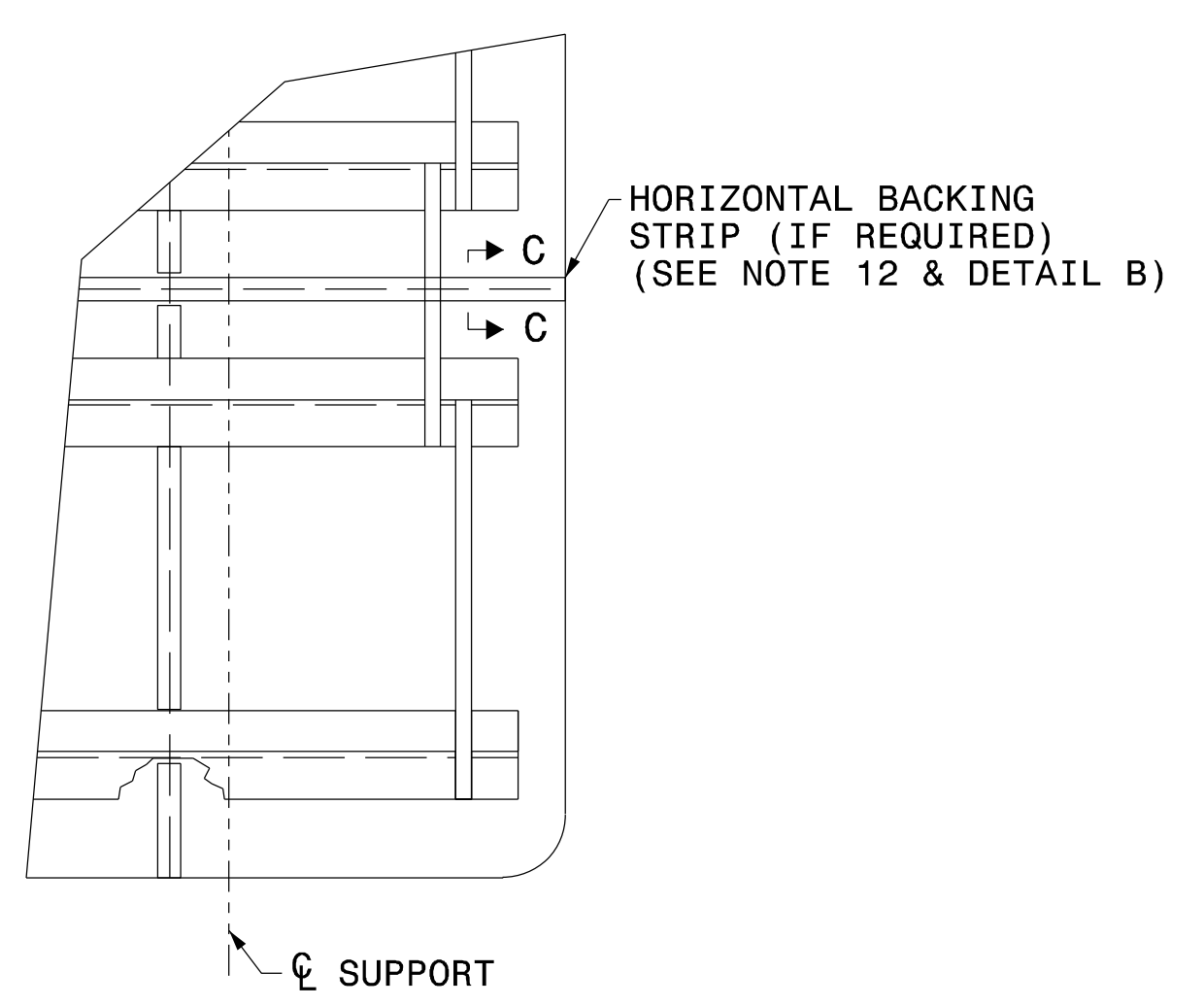
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

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
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.


2-19

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

SHEET 1 OF 2

901D10

REVISED SIGNING
ROADWAY STANDARD DRAWING

TIP NO. B-3186 / B-5898	SHEET NO. SIGN-2B
APPROVED: <i>Matthew V. Springer</i> 3/21/2019	DATE: BC80F8E8B584403...
SEAL	
	

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

2-19

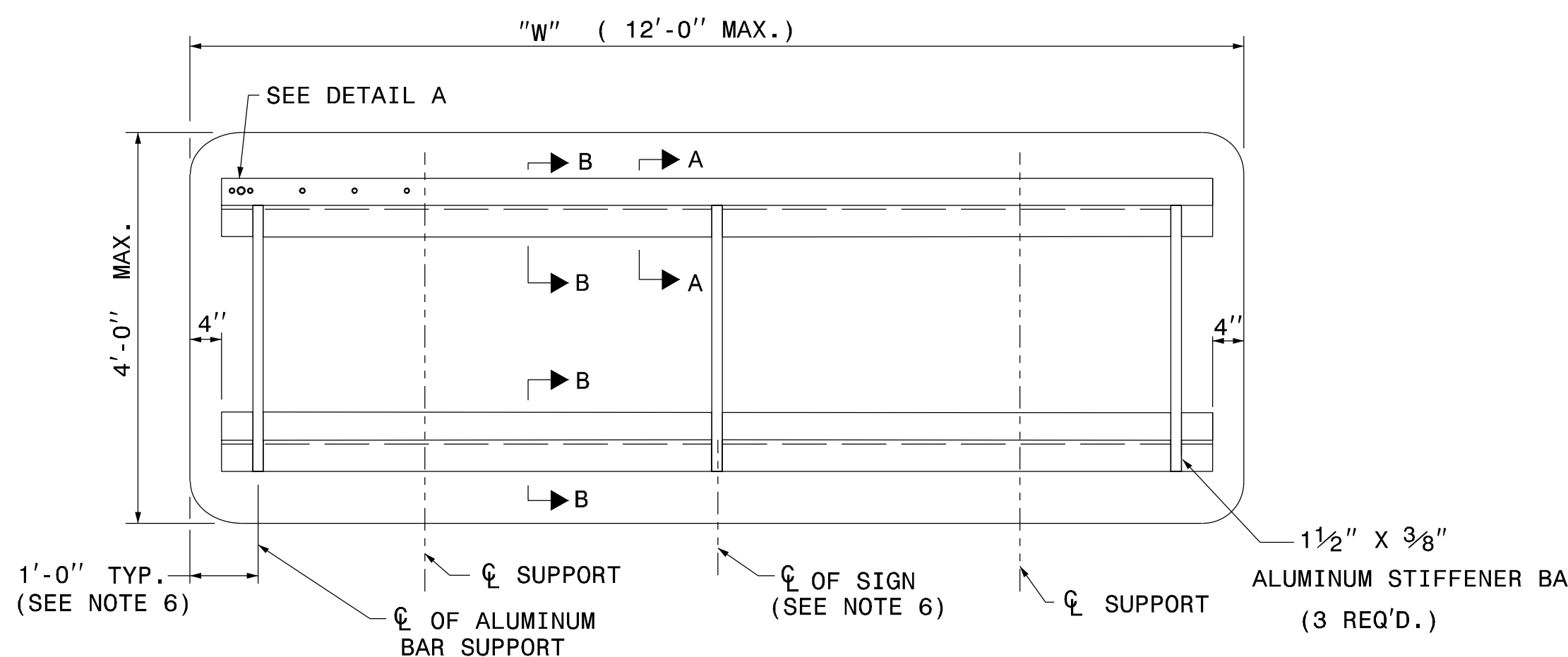
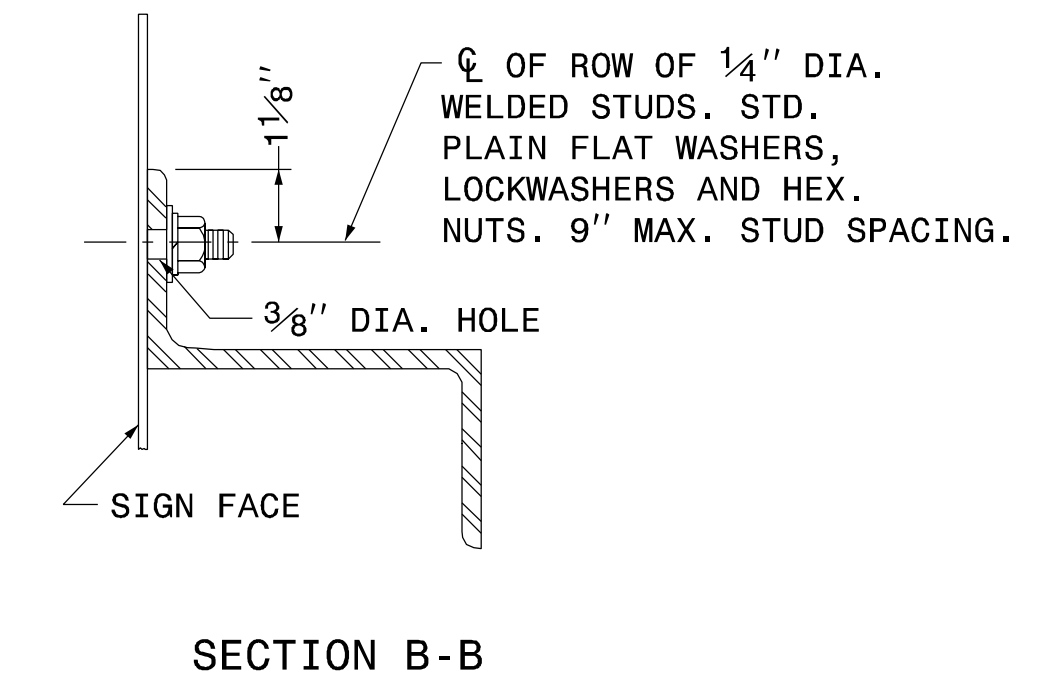
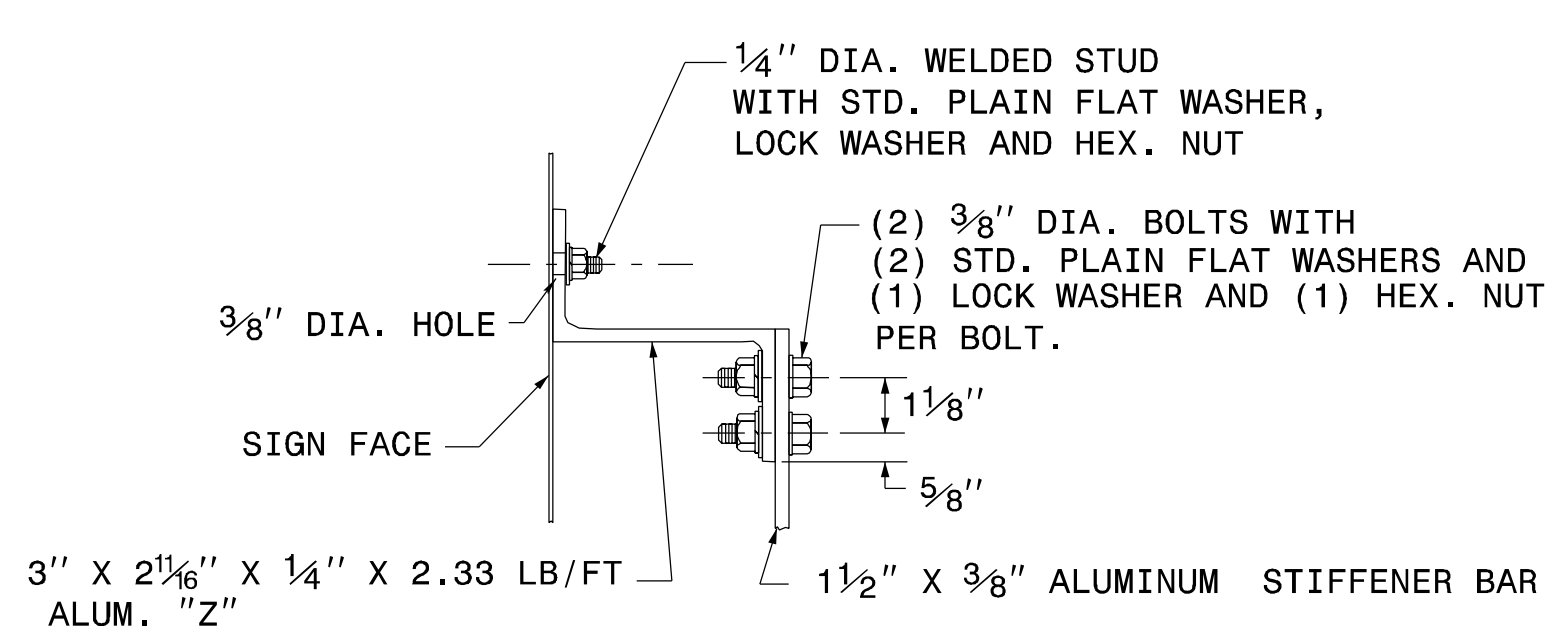
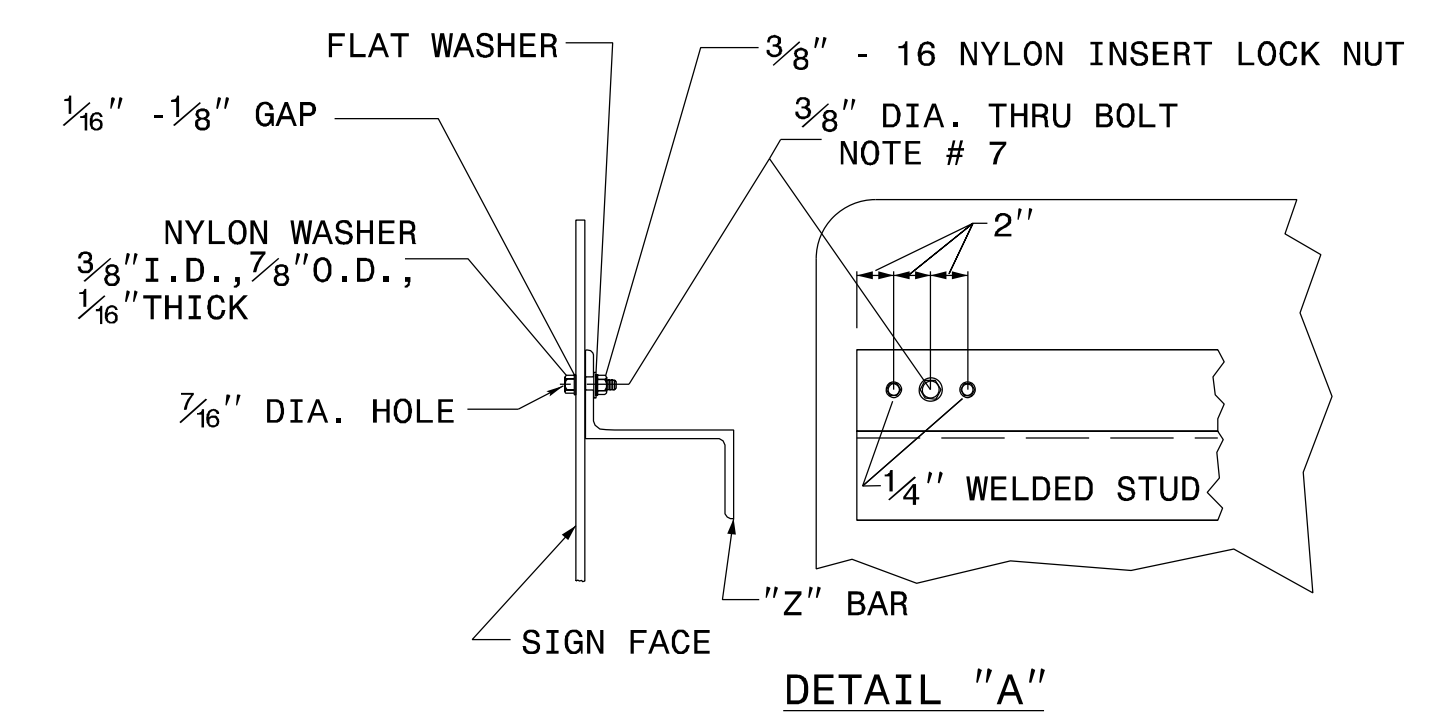
ENGLISH DETAIL DRAWING FOR
TYPE 'B' SIGNS
WELDED STUD CONSTRUCTION

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DIVISION OF HIGHWAYS
RALEIGH, N.C.

2-19

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


SHEET 1 OF 1
901D20



- 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.

SHEET 1 OF 1
901D20

**REVISED SIGNING
ROADWAY STANDARD DRAWING**

TIP NO. B-3186 / B-5898	SHEET NO. SIGN-2C
DocuSigned by: <i>Matthew V. Springer</i>	
APPROVED: 5/26/2020	
DATE: BC60F6E8B584403...	
SEAL	
	

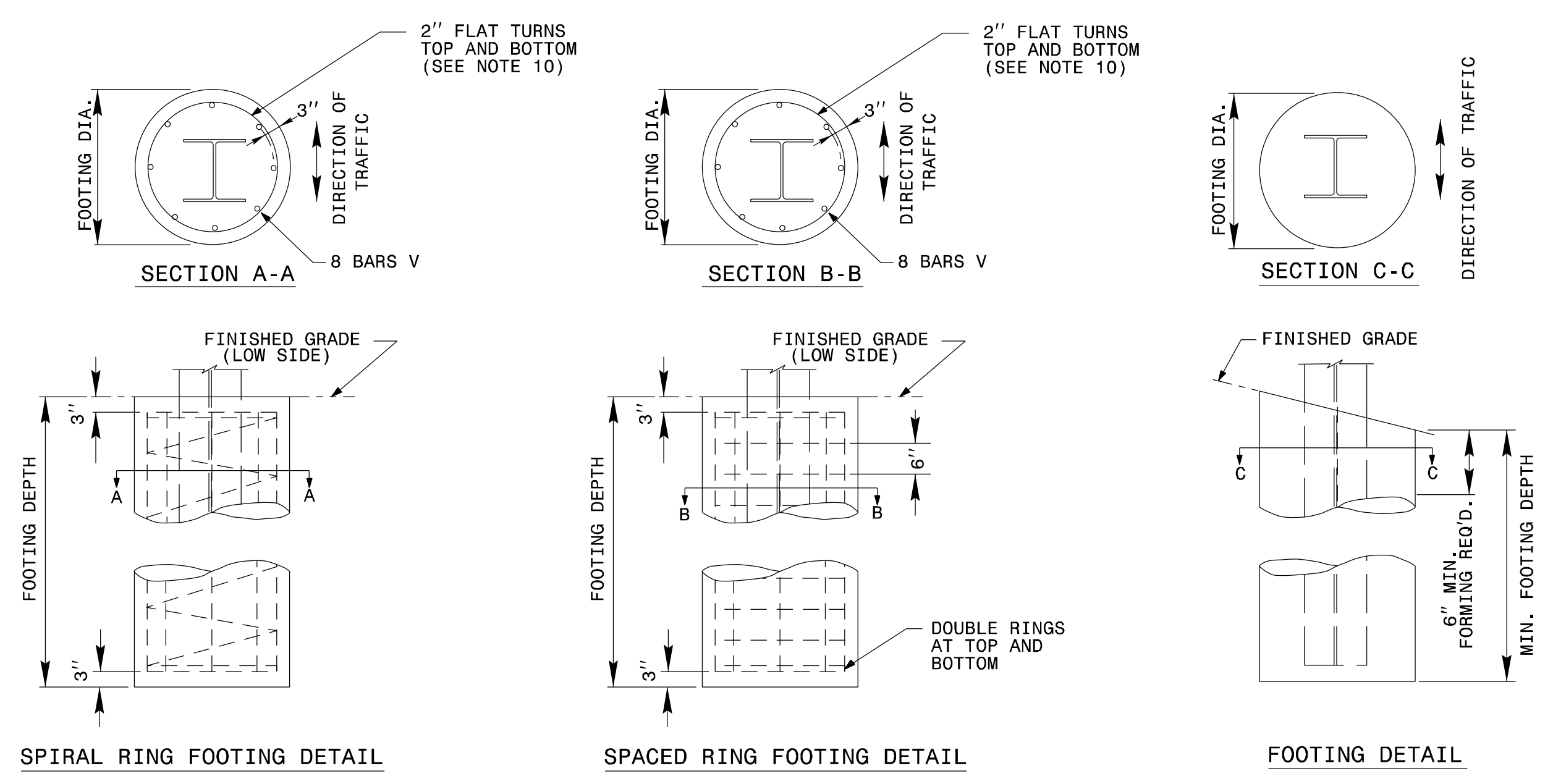
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 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

5-20

ENGLISH DETAIL DRAWING FOR
GROUND MOUNTED SIGN SUPPORTS

SHEET 2 OF 3
903D10

BEAM SHAPE	BOLT SIZE	SLIP BASE PLATE DATA								KEEPER PLATE DATA						HINGE CONNECTION DATA								BREAK AWAY SUPPORT WEIGHT CONSTANT LBS.		
		A ₁	B ₁	C ₁	D ₁	E ₁	T ₁	R ₁	A ₂	B ₂	C ₂	D ₂	E ₂	R ₂	T ₂	BOLT SIZE	F	G	H	I	J	K	L		R ₃	T ₃
S3X5.7	1/2"DIA. X 3/4"	7"	4"	1"	3/4"	2 1/2"	1"	9/32"	7"	4"	1"	3/4"	2 1/2"	9/32"	28 GAUGE	1/2"DIA. X 1 3/4"	2 1/4"	3 1/2"	4"	1 1/2"	1"	1/2"	2"	9/32"	3/8"	18
S4X7.7	1/2"DIA. X 3/4"	8"	4"	1"	3/4"	2 1/2"	1"	9/32"	8"	4"	1"	3/4"	2 1/2"	9/32"	28 GAUGE	1/2"DIA. X 1 3/4"	2 5/8"	3 1/2"	4"	1 1/2"	1"	1/2"	2"	9/32"	3/8"	20
W6X9	1/2"DIA. X 3/4"	10"	5"	1"	3/4"	3 1/2"	1"	9/32"	10"	5"	1"	3/4"	3 1/2"	9/32"	28 GAUGE	1/2"DIA. X 1 3/4"	4"	3 1/2"	4"	3/4"	1"	1/2"	2"	9/32"	3/8"	32
W6X12	5/8"DIA. X 4"	11"	5"	1 1/4"	7/8"	3 1/4"	1 1/4"	1 1/32"	11"	5"	1 1/4"	7/8"	3 1/4"	1 1/32"	28 GAUGE	5/8"DIA. X 2"	4"	4"	4 1/2"	3/4"	1 1/8"	5/8"	2 1/4"	1 1/32"	3/8"	39
W6X16	5/8"DIA. X 4 1/2"	12"	6"	1 1/4"	7/8"	4 1/4"	1 1/2"	1 1/32"	12"	6"	1 1/4"	7/8"	4 1/4"	1 1/32"	28 GAUGE	5/8"DIA. X 2 1/4"	4"	4"	4 1/2"	3/4"	1 1/8"	5/8"	2 1/4"	1 1/32"	1/2"	47
W8X18	5/8"DIA. X 4 1/2"	13 1/2"	6 1/2"	1 1/4"	7/8"	4 3/4"	1 1/2"	1 1/32"	13 1/2"	6 1/2"	1 1/4"	7/8"	4 3/4"	1 1/32"	28 GAUGE	5/8"DIA. X 2 1/4"	5 1/4"	4"	4 1/2"	1"	1 1/8"	5/8"	2 1/4"	1 1/32"	1/2"	70
W8X21	3/4"DIA. X 4 1/2"	14"	7"	1 1/2"	1"	5"	1 1/2"	1 3/32"	14"	7"	1 1/2"	1"	5"	1 3/32"	28 GAUGE	3/4"DIA. X 2 1/2"	5 1/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	1 3/32"	1/2"	73
W10X22	3/4"DIA. X 4 1/2"	16"	8"	1 1/2"	1"	6"	1 1/2"	1 3/32"	16"	8"	1 1/2"	1"	6"	1 3/32"	28 GAUGE	3/4"DIA. X 2 1/2"	5 3/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	1 3/32"	1/2"	119
W10X26	3/4"DIA. X 5 1/2"	16 1/2"	8"	1 1/2"	1"	6"	1 3/4"	1 3/32"	16 1/2"	8"	1 1/2"	1"	6"	1 3/32"	28 GAUGE	3/4"DIA. X 2 3/4"	5 3/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	1 3/32"	5/8"	140
W12X26	3/4"DIA. X 5 1/2"	18 1/2"	9"	1 1/2"	1"	7"	1 3/4"	1 3/32"	18 1/2"	9"	1 1/2"	1"	7"	1 3/32"	28 GAUGE	3/4"DIA. X 2 3/4"	6 1/2"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	1 3/32"	5/8"	176
W14X30	1"DIA. X 6"	22"	9"	2"	1 1/2"	6"	2"	1 7/32"	22"	9"	2"	1 1/2"	6"	1 7/32"	28 GAUGE	1"DIA. X 3"	6 3/4"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	5/8"	205
W16X31	1"DIA. X 6"	24"	9"	2"	1 1/2"	6"	2"	1 7/32"	24"	9"	2"	1 1/2"	6"	1 7/32"	28 GAUGE	1"DIA. X 3"	5 1/2"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	3/4"	223
W18X35	1"DIA. X 6"	25"	9"	2"	1 1/2"	6"	2"	1 7/32"	25"	9"	2"	1 1/2"	6"	1 7/32"	28 GAUGE	1"DIA. X 3"	6"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	3/4"	243
W18X40	1"DIA. X 6 1/2"	26"	9"	2"	1 1/2"	6"	2 1/4"	1 7/32"	26"	9"	2"	1 1/2"	6"	1 7/32"	28 GAUGE	1"DIA. X 3 1/2"	6"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	7/8"	278
W21X44	1"DIA. X 7"	29"	9"	2"	1 1/2"	6"	2 1/2"	1 7/32"	29"	9"	2"	1 1/2"	6"	1 7/32"	28 GAUGE	1"DIA. X 3 1/2"	6 1/2"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	7/8"	310



FOUNDATION DATA *			
FOOTING DIAMETER	REINFORCEMENT	SPIRAL BAR	SPACED BAR
1'-6"	8 # 6 BARS	#3 BAR, 6" PITCH	#3 BAR, 6" SPACE
2'	8 # 7 BARS	#3 BAR, 6" PITCH	#3 BAR, 6" SPACE
2'-6"	8 # 9 BARS	#3 BAR, 6" PITCH	#3 BAR, 6" SPACE
3'	8 # 11 BARS	#3 BAR, 6" PITCH	#3 BAR, 6" SPACE
3'-6"	8 # 12 BARS	#3 BAR, 6" PITCH	#3 BAR, 6" SPACE
4'	8 # 14 BARS	#3 BAR, 6" PITCH	#3 BAR, 6" SPACE

* FOUNDATION DIMENSIONS ARE SHOWN IN PLANS

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

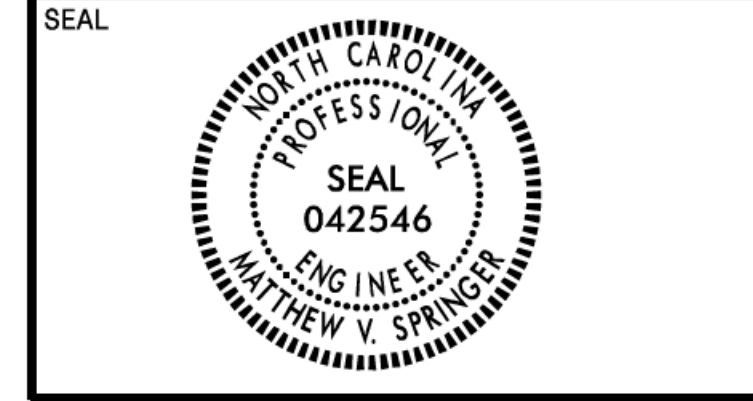
5-20

ENGLISH DETAIL DRAWING FOR
GROUND MOUNTED SIGN SUPPORTS

SHEET 2 OF 3
903D10

**REVISED SIGNING
 ROADWAY STANDARD DRAWING**

APPROVED: *Matthew V. Springer*
DATE: 6/23/2021



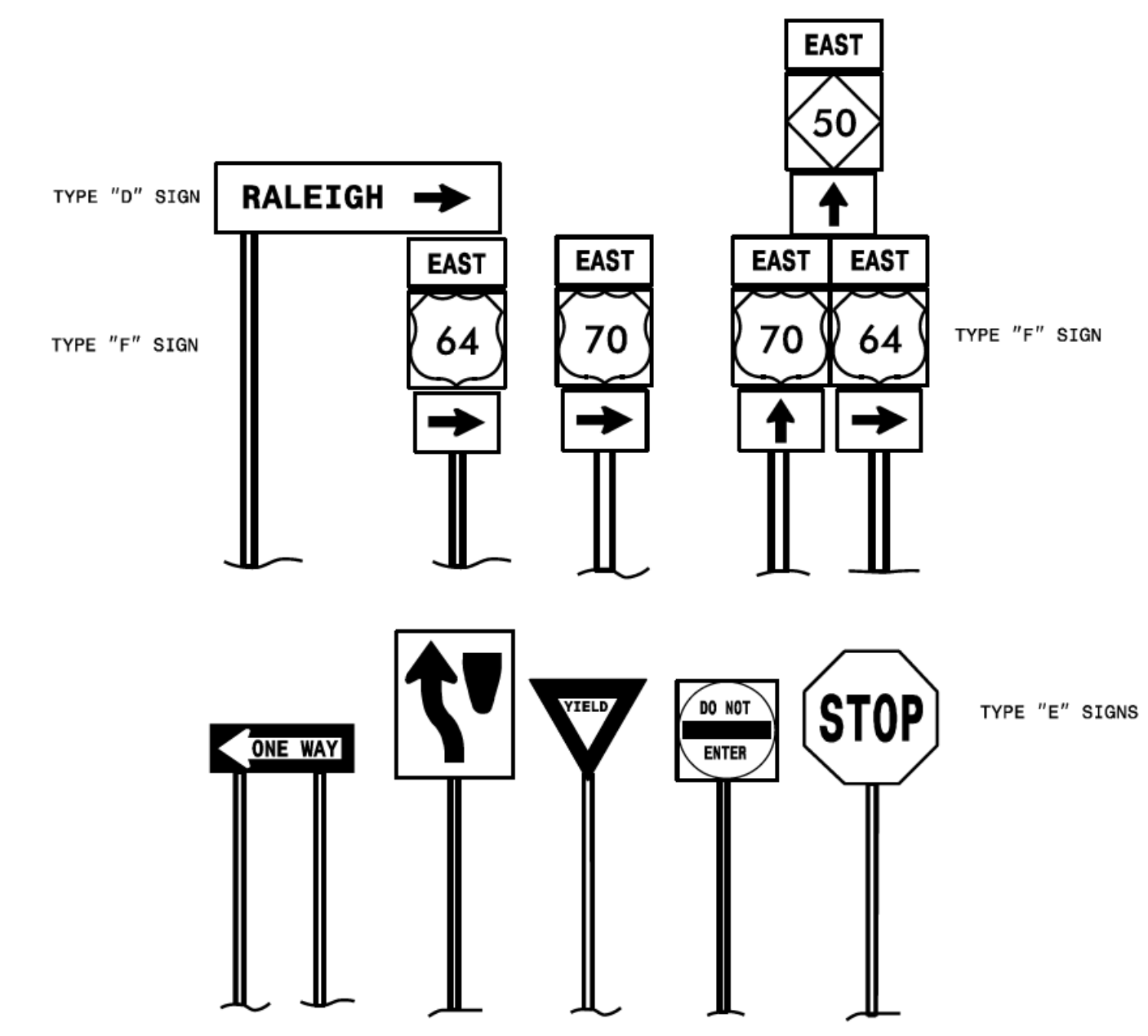
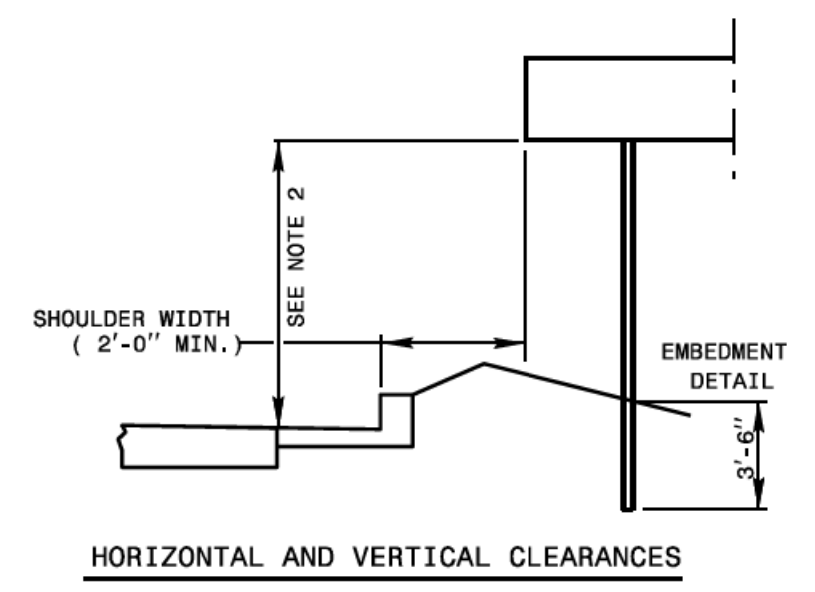
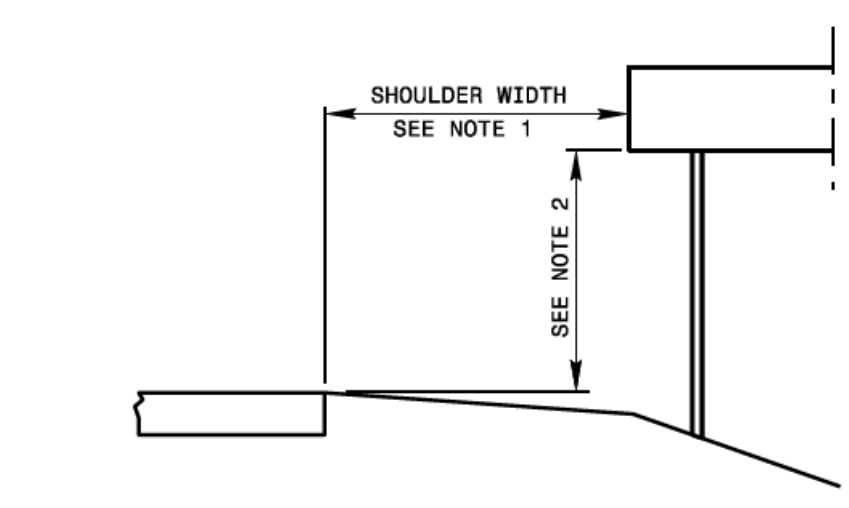
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

6-21

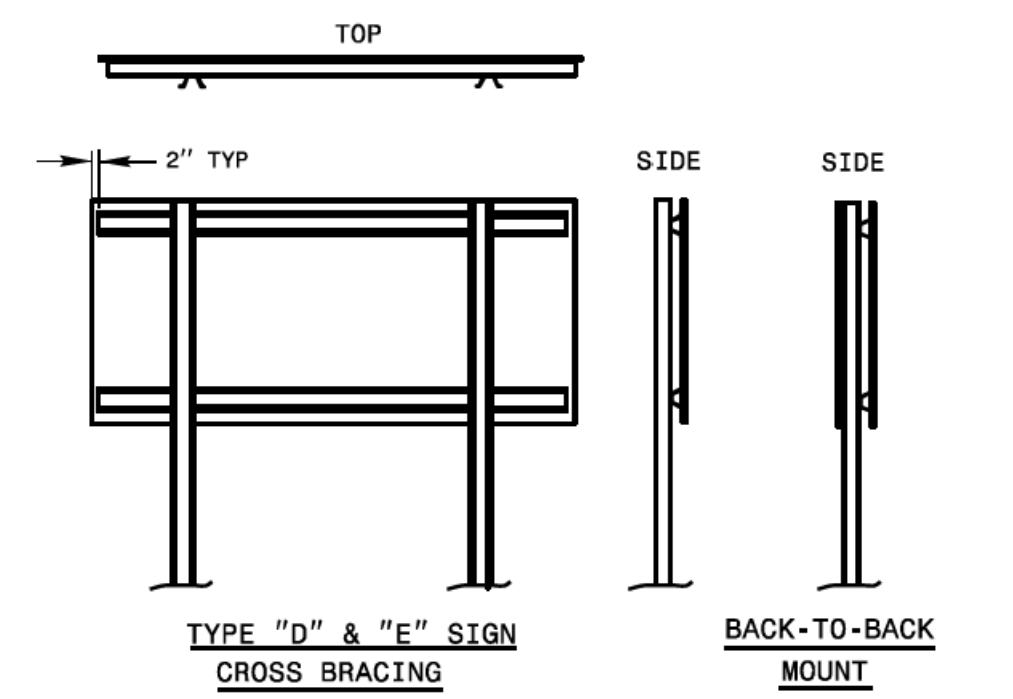
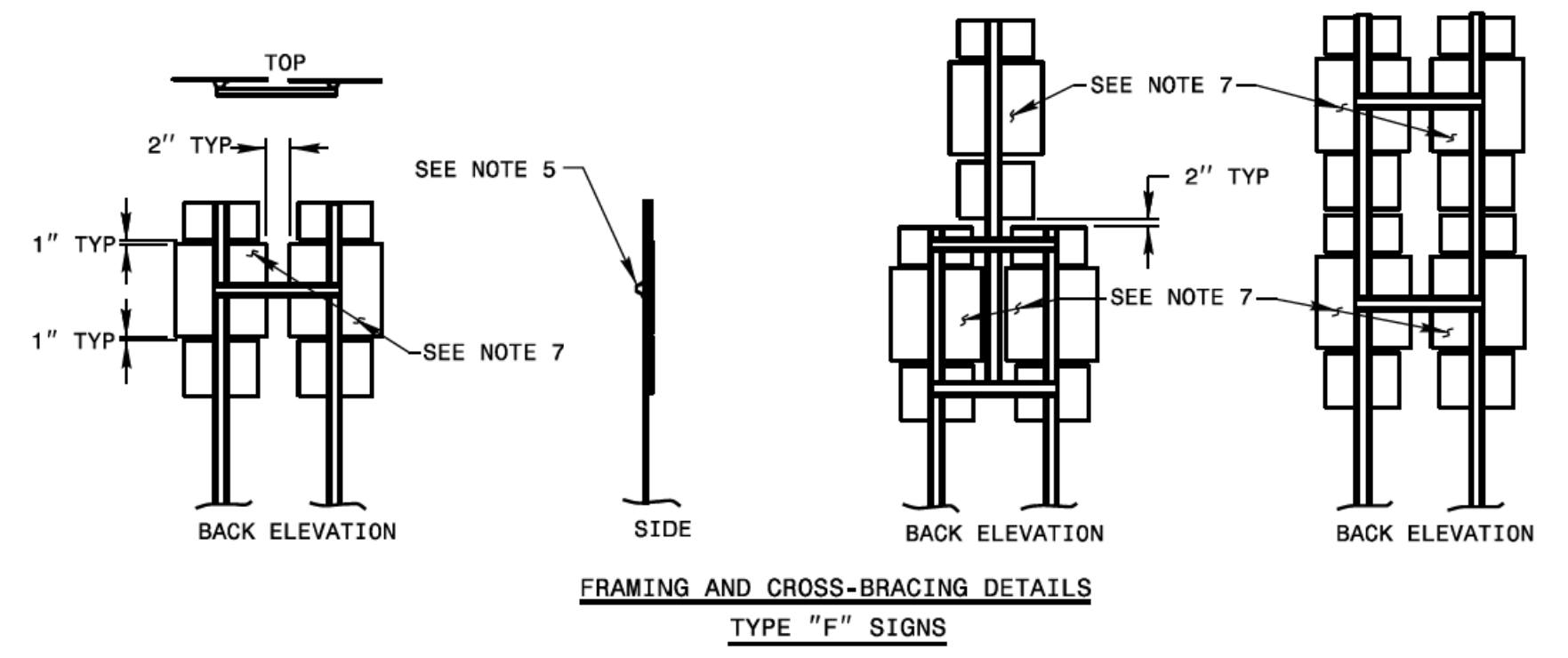
ENGLISH DETAIL DRAWING FOR
MOUNTING OF
TYPE 'D', 'E', AND 'F' SIGNS
ON 'U' CHANNEL POSTS

SHEET 1 OF 2

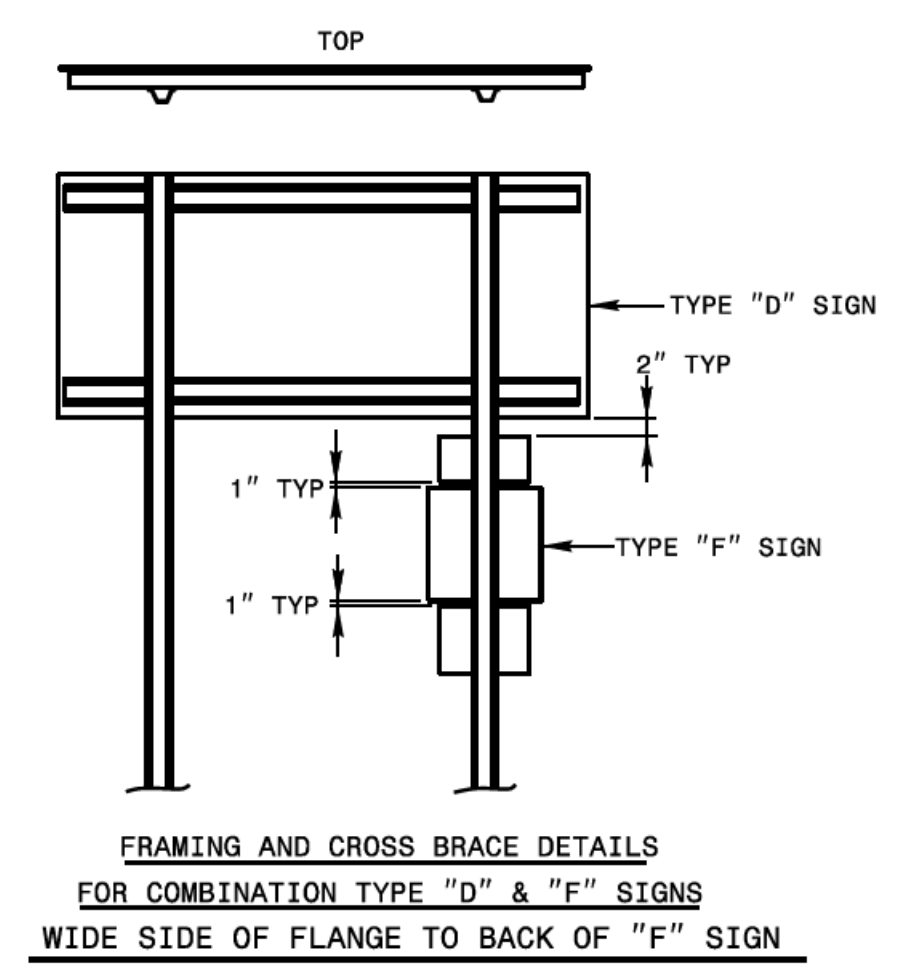
904D50



TYPICAL SIGN SHAPES AND COMBINATIONS



FRAMING AND CROSS BRACE DETAILS FOR COMBINATION TYPE "D" & "E" SIGNS
WIDE SIDE OF CROSS BRACE GOES TO BACK OF SIGN



FRAMING AND CROSS BRACE DETAILS FOR COMBINATION TYPE "D" & "F" SIGNS
WIDE SIDE OF FLANGE TO BACK OF "F" SIGN

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

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

6-21

ENGLISH DETAIL DRAWING FOR
MOUNTING OF
TYPE 'D', 'E', AND 'F' SIGNS
ON 'U' CHANNEL POSTS

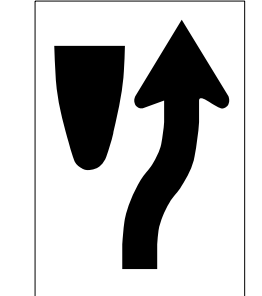
SHEET 1 OF 2

904D50

REVISED SIGNING
ROADWAY STANDARD DRAWING

REVISIONS

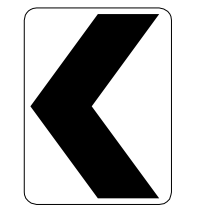
401 QUANTITY REQ'D 1



24 X 30
R4-7

ONE "U" POST

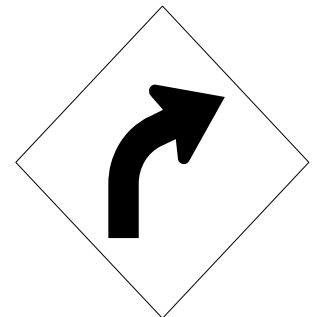
406 QUANTITY REQ'D 3



30 X 36
W1-8

ONE "U" POST PER SIGN

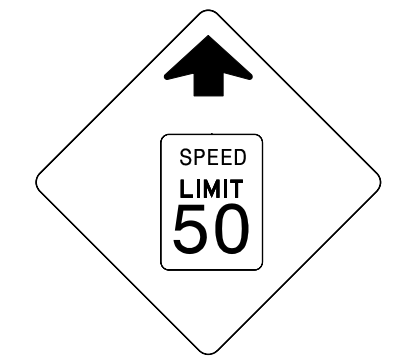
411 QUANTITY REQ'D 1



36 X 36
W1-2R

ONE "U" POST


416 QUANTITY REQ'D 2



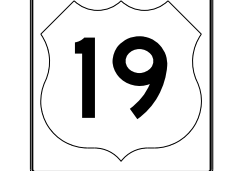
36 X 36
W3-5

ONE "U" POST PER SIGN


501 502



1-36" X 18"





1-36" X 36"

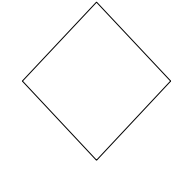


1-21" X 15"

ONE "U" POST PER SIGN

PROJECT REFERENCE NO. B-3186 / B-5898	SHEET NO. SIGN-3
SIGNING ENGINEER	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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402 QUANTITY REQ'D 1



18 X 18
OM1-3

MOUNT BELOW SIGN 401
IN 1 INSTALLATION

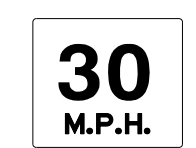
407 QUANTITY REQ'D 2



36 X 36
R5-1

ONE "U" POST PER SIGN

412 QUANTITY REQ'D 1



24 X 24
W13-1P

MOUNT BELOW SIGN 411
IN 1 INSTALLATION

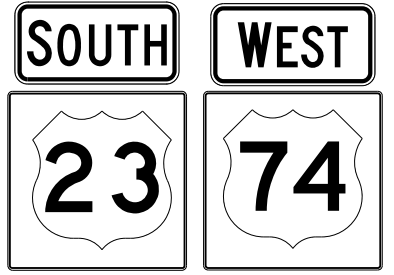
417 QUANTITY REQ'D 2



36 X 36
R1-1

ONE "U" POST PER SIGN

503

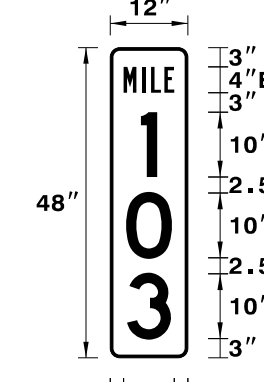


2-36" X 18"

2-36" X 36"

TWO "U" POSTS

QUANTITY REQ'D 2

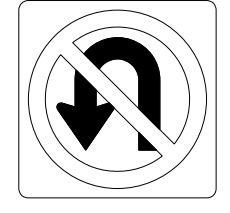


48"

BORDER
R=1.5" 2.75" TH=0.5"

ONE "U" POST PER SIGN


403 QUANTITY REQ'D 1



36 X 36
R3-4

MOUNT BELOW SIGN 418
IN 1 INSTALLATION

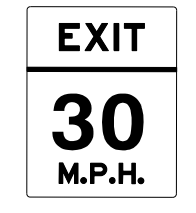
408 QUANTITY REQ'D 1



54 X 18
R6-1 (L)

TWO "U" POSTS


413 QUANTITY REQ'D 1



36 X 48
W13-2

TWO "U" POSTS


418 QUANTITY REQ'D 1




36 X 48
R3-2B

ONE "U" POSTS


504 505



1-36" X 18"



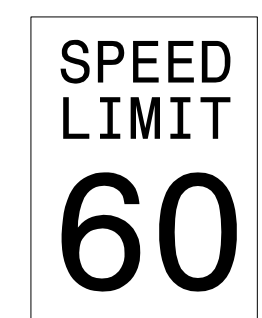
1-36" X 36"



1-21" X 15"

ONE "U" POST PER SIGN


404 QUANTITY REQ'D 1



48 X 60
R2-1

TWO "U" POSTS PER SIGN


409 QUANTITY REQ'D 2



30 X 36
R2-1

ONE "U" POST PER SIGN

414 QUANTITY REQ'D 2




30 X 30
W11-2

YELLOW/GREEN REFLECTIVE SHEETING

ONE "U" POST PER SIGN

506

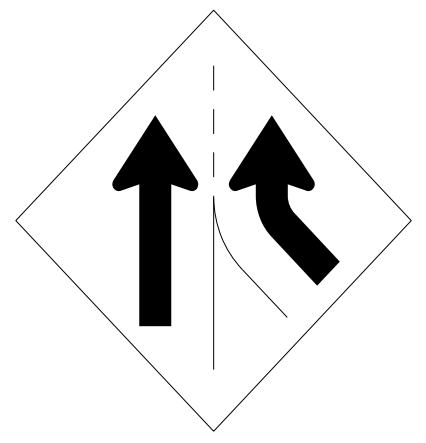


1-36" X 18"

1-36" X 36"

ONE "U" POST

405 QUANTITY REQ'D 2



48 X 48
W4-3(R)

TWO "U" POSTS

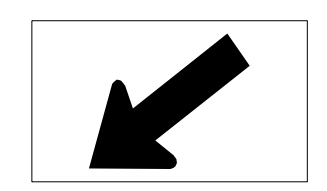
410 QUANTITY REQ'D 2



36 X 24
R5-1a

ONE "U" POST PER SIGN

415 QUANTITY REQ'D 2



24 X 12
W16-7

YELLOW/GREEN REFLECTIVE SHEETING

MOUNT BELOW SIGN 414
IN 2 INSTALLATIONS

**TYPE "E", "F"
& MILEMARKER SIGNS**

PROJECT REFERENCE NO. B-3186 / B-5898	SHEET NO. SIGN-4A
SIGNING ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

SIGN NUMBER: 3B **BACKG COLOR:** Green
TYPE: A **COPY COLOR:** White
QUANTITY: 1

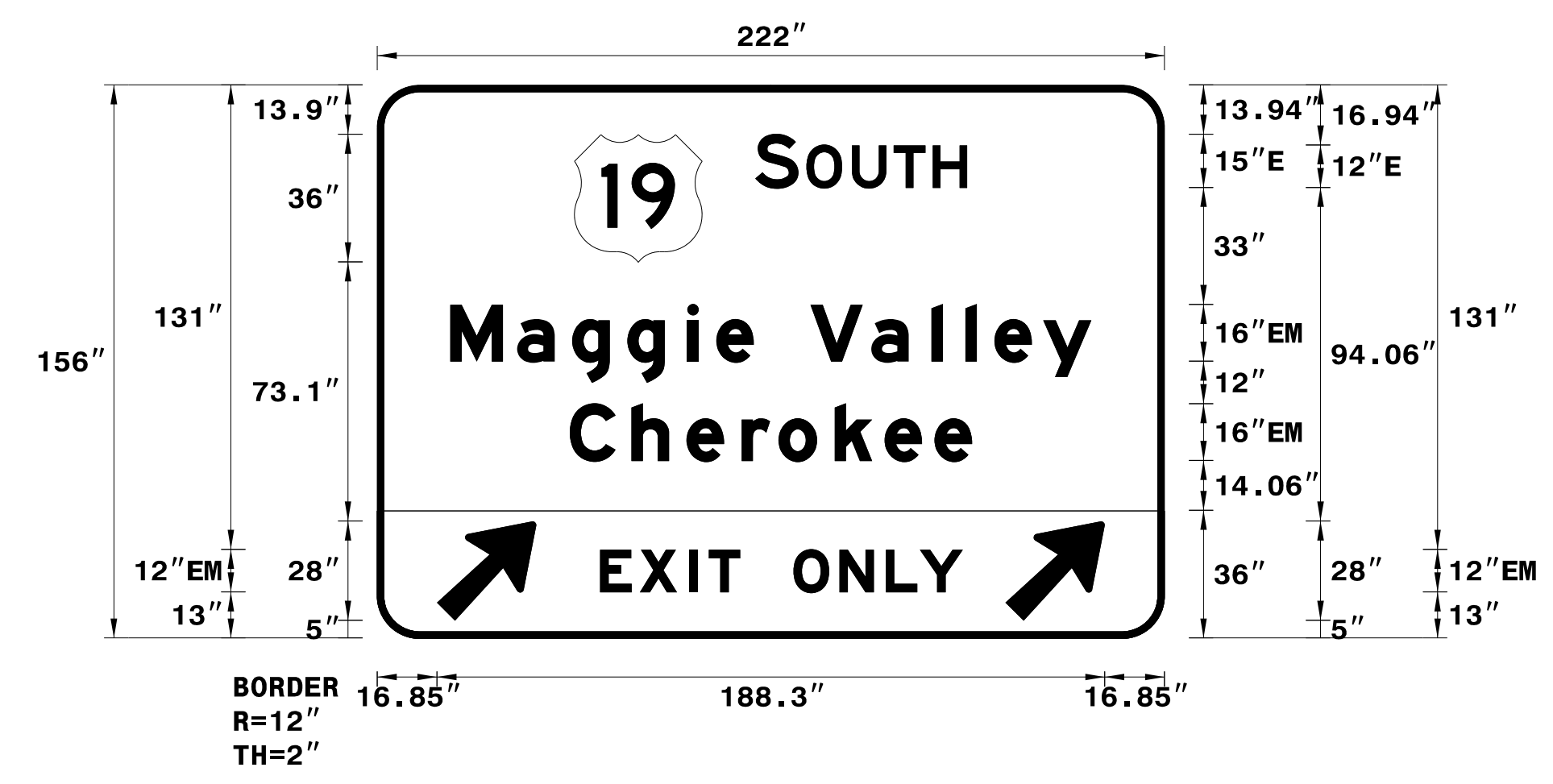
SYMBOL	X	Y	WID	HT
M1_4	55.6	106.1	36	36
AR_Type A	16.8	5	22.6	35.6
AR_Type A	177.2	5	22.6	35.6

SIGN WIDTH: 18'-6"
HEIGHT: 13'-0"
TOTAL AREA: 240.5 Sq.Ft.

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

NO. Z BARS: 4 **MAT'L:** 0.125" (3.2 mm) ALUMINUM
LENGTH: 214.0

DESIGN BY: R DRAYTON **CHECKED BY:** R KING **Sep 17, 2021**
PROJECT ID: B-3186_B-5898 **DIV:** 14



- USE NOTES: 1,2,3 & 4**
- Legend and border(except those that are colored black) shall be direct applied Grade A 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.
 - Bottom panel shall be yellow Grade C sheeting on background with black recessed border. THICKNESS: 1.5" RECESS: 0.5"

Increase Spacing Factor for "EXIT" & "ONLY" by 1.4
 Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

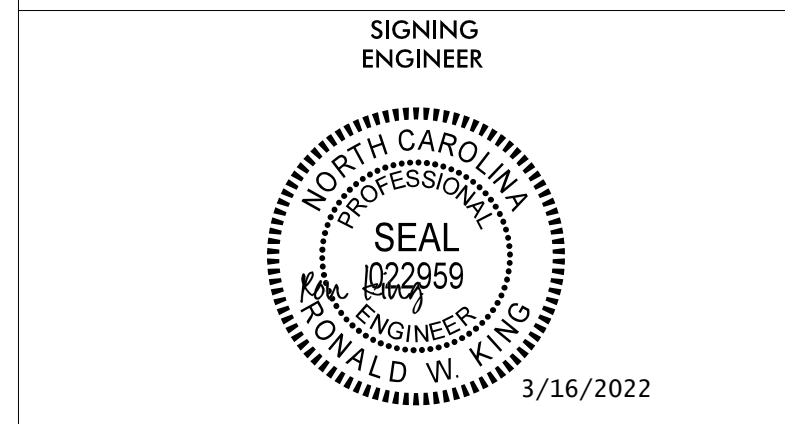
Letter spacings are to start of next letter

															Series/Size	
															Text Length	
	S		O	U	T	H										E 2000
106.6	12.2	2.2	12.8	11.8	11	9.7	55.6									59.8
	M	a	g	g	i	e		V	a	l	l	e	y			EM 2000
20.6	18.9	15.5	15.5	17	8.2	10.6	16	17.1	17	9.6	8.2	13.8	13.6	20.6		180.8
	C	h	e	r	o	k	e	e								EM 2000
54.3	17.4	15.5	15.5	10.4	15.8	14.1	14.1	10.6	54.3							113.4
	E	X	I	T												EM 2000
59.8	11.2	14	5.4	8.9	119.6											39.5
	O	N	L	Y												EM 2000
117.4	13	13.1	9.6	12.1	59.8											47.8

FILENAME: Guidsign_English_8-2-13

NORTH CAROLINA D.O.T. SIGN DETAIL

REVISIONS



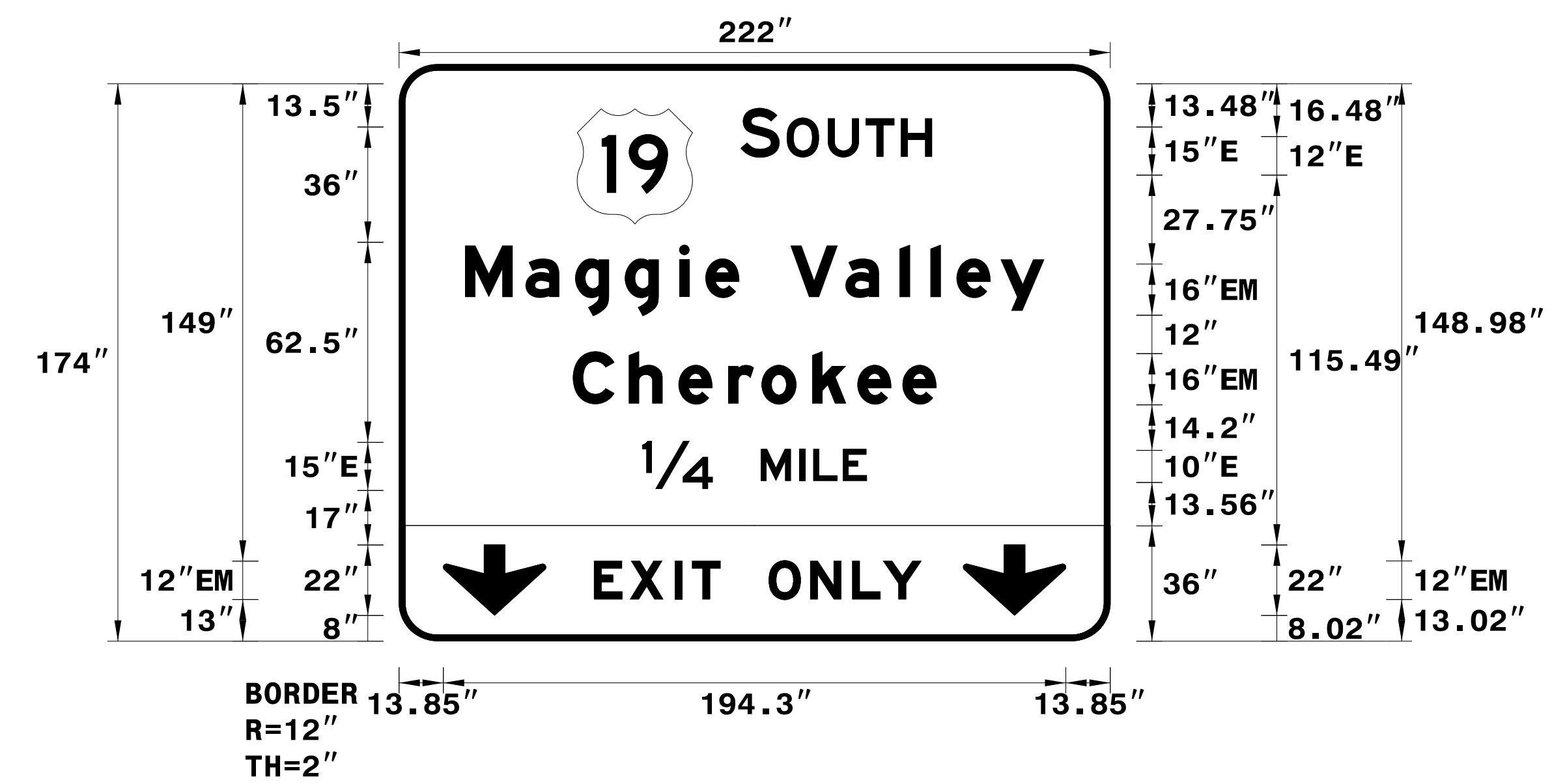
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

SIGN NUMBER: 6B	BACKG COLOR: Green
TYPE: A	COPY COLOR: White
QUANTITY: 1	
SIGN WIDTH: 18'-6"	
HEIGHT: 14'-6"	
TOTAL AREA: 268.3 Sq.Ft.	
BORDER TYPE: FLUSH	
RECESS: 0"	
WIDTH: 2"	
RADII: 12"	
NO. Z BARS: 5	MAT'L: 0.125" (3.2 mm) ALUMINUM
LENGTH: 214.0	

SYMBOL	X	Y	WID	HT
M1_4	55.6	124.5	36	36
Drop Arrow	13.8	8	32	22
Drop Arrow	176.2	8	32	22

DESIGN BY: R DRAYTON CHECKED BY: R KING Oct 28, 2021
PROJECT ID: B-3186_B-5898 DIV: 14



Increase spacing factor for "EXIT" & "ONLY" by 1.4
Spacing Factor is 1 unless specified otherwise

USE NOTES: 1, 2, 3 & 4

- Legend and border(except those that are colored black) shall be direct applied Grade A 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.
- Bottom panel shall be yellow Grade C sheeting on background with black recessed border.
THICKNESS: 1.5" RECESS: 0.5"

LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size Text Length	
	S		O	U	T	H										E 2000 59.8
106.6	12.2	2.2	12.8	11.8	11	9.7	55.6									
	M	a	g	g	i	e		V	a	l	l	e	y			EM 2000 180.8
20.6	18.9	15.5	15.5	17	8.2	10.6	16	17.1	17	9.6	8.2	13.8	13.6	20.6		
	C	h	e	r	o	k	e	e								EM 2000 113.4
54.3	17.4	15.5	15.5	10.4	15.8	14.1	14.1	10.6	54.3							
	1/4		M	I	L	E										E 2000 70.1
76	22	15	12	4.4	9.2	7.5	76									
	E	X	I	T												EM 2000 39.5
59.8	11.2	14	5.4	8.9	121.6											
	O	N	L	Y												EM 2000 47.8
115.4	13	13.1	9.6	12.1	59.8											

FILENAME: Guidsign_English_8-2-13

NORTH CAROLINA D.O.T. SIGN DETAIL

REVISIONS

PROJECT REFERENCE NO. B-3186 / B-5898	SHEET NO. SIGN-4D
SIGNING ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

SIGN NUMBER: 7B
TYPE: A
QUANTITY: 1

BACKG COLOR: Green
COPY COLOR: White

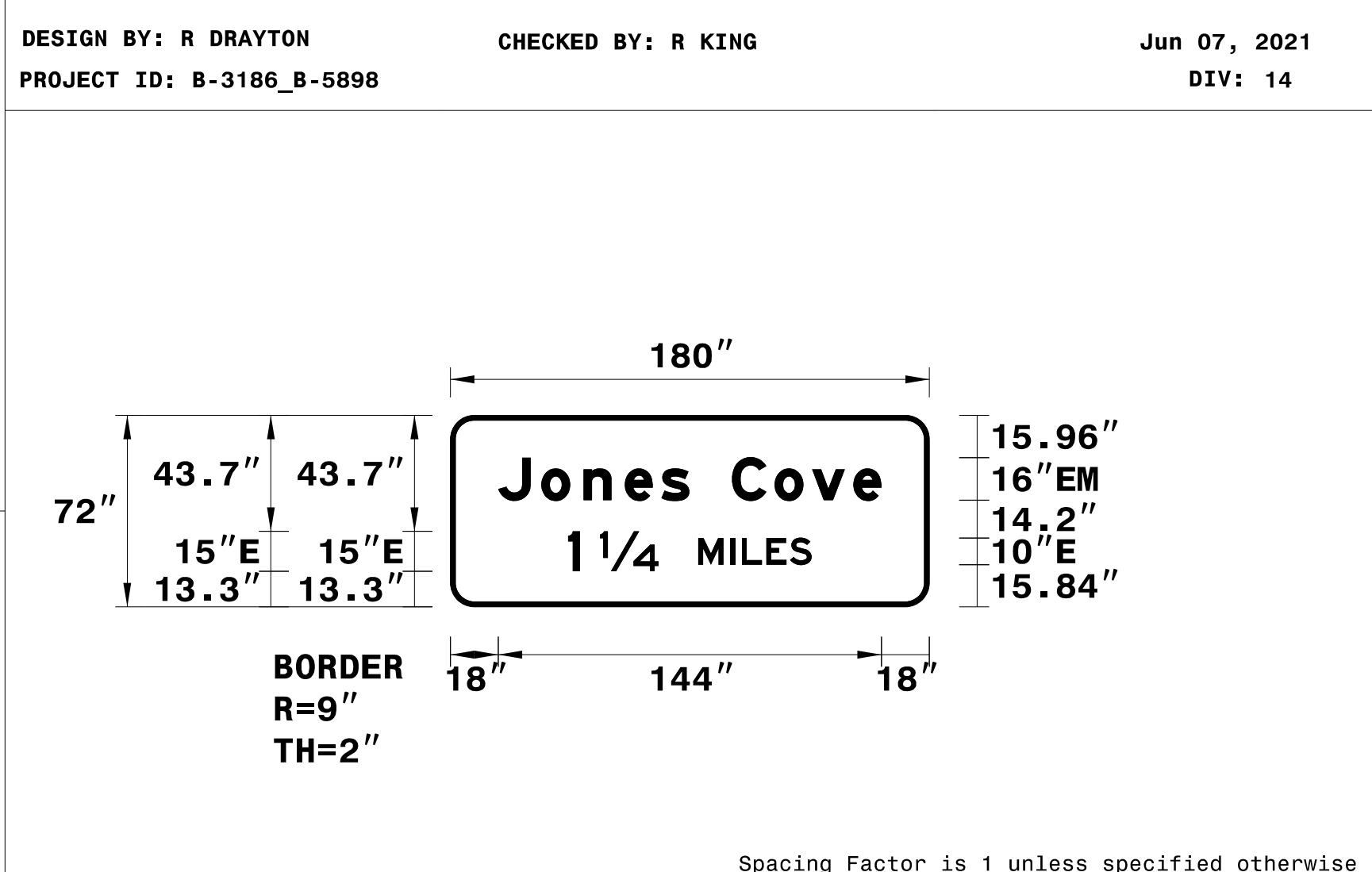
SYMBOL	X	Y	WID	HT

SIGN WIDTH: 15'-0"
HEIGHT: 6'-0"
TOTAL AREA: 90.0 Sq.Ft.

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

NO. Z BARS: 2
LENGTH: 172.0

MAT'L: 0.125" (3.2 mm) ALUMINUM



- USE NOTES: 1 & 2
- Legend and border(except those that are colored black) shall be direct applied Grade A 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.

LETTER POSITIONS

Letter spacings are to start of next letter												Series/Size		
												Text Length		
	J	o	n	e	s		C	o	v	e				EM 2000
18	16.2	15.8	15.5	13.8	10.6	16	16	14.1	15.5	10.6	18			144
	1		1/4		M	I	L	E	S					E 2000
44.2	4.5	7.5	22	15	12	4.4	9.2	8.9	8.1	44.2				91.6

FILENAME: Guidsign_English_8-2-13

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 8B
TYPE: A
QUANTITY: 1

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	123	107.6	36	36
M1-5-3-24-7C	175	107.6	36	36
AR_Type A	110	5	22.6	35.6

SIGN WIDTH: 21'-0"
HEIGHT: 13'-0"
TOTAL AREA: 273.0 Sq.Ft.

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

NO. Z BARS: 4
LENGTH: 244.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

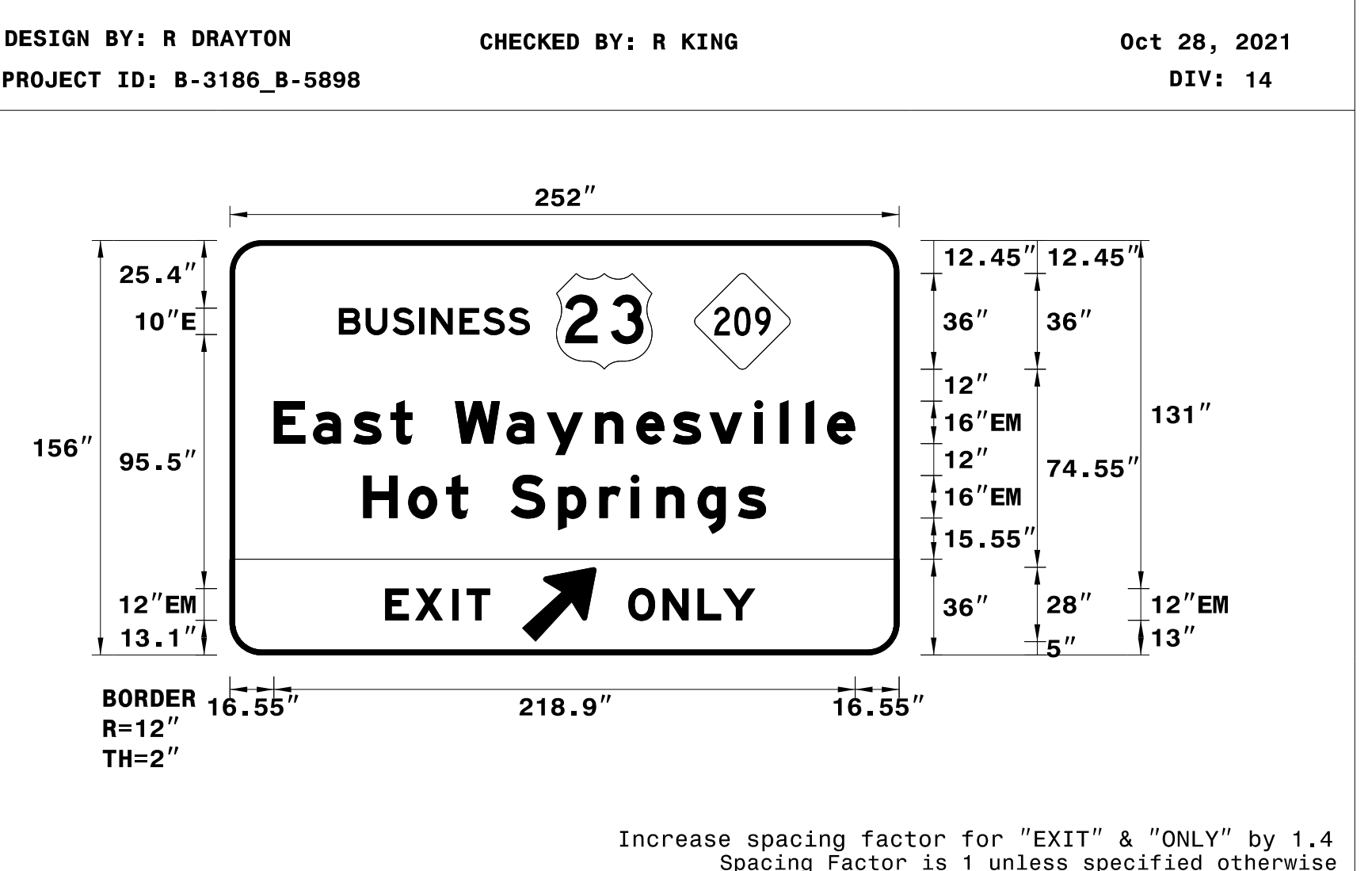
- USE NOTES: 1, 2, 3 & 4
- Legend and border(except those that are colored black) shall be direct applied Grade A sheeting.
 - Background shall be Grade C reflective sheeting.
 - Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.
 - Bottom panel shall be yellow Grade C sheeting on background with black recessed border. THICKNESS: 1.5" RECESS: 0.5"

LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size			
															Text Length			
	B	U	S	I	N	E	S	S							E 2000			
41.1	10.1	10.1	10.1	4.4	10.7	8.9	9.5	8.1	139.1						71.9			
	E	a	s	t		W	a	y	n	e	s	v	i	l	l	e	EM 2000	
16.6	14.7	15.2	13.9	8.3	16	19.4	15.2	18.2	15.5	13.8	13.8	17	9.6	9.6	8.2	10.6	16.6	218.9
	H	o	t		S	p	r	i	n	g	s							EM 2000
50.2	17	14.2	8.3	16	17.9	15.5	11.8	9.6	15.5	15.2	10.6	50.2						151.7
	E	X	I	T														EM 2000
56.4	11.2	14	5.4	8.9	154													39.5
	O	N	L	Y														EM 2000
150	13	13.1	9.6	12.1	56.4													47.8

FILENAME: Guidsign_English_8-2-13

NORTH CAROLINA D.O.T. SIGN DETAIL



LETTER POSITIONS



Letter spacings are to start of next letter															Series/Size			
															Text Length			
	B	U	S	I	N	E	S	S							E 2000			
41.1	10.1	10.1	10.1	4.4	10.7	8.9	9.5	8.1	139.1						71.9			
	E	a	s	t		W	a	y	n	e	s	v	i	l	l	e	EM 2000	
16.6	14.7	15.2	13.9	8.3	16	19.4	15.2	18.2	15.5	13.8	13.8	17	9.6	9.6	8.2	10.6	16.6	218.9
	H	o	t		S	p	r	i	n	g	s							EM 2000
50.2	17	14.2	8.3	16	17.9	15.5	11.8	9.6	15.5	15.2	10.6	50.2						151.7
	E	X	I	T														EM 2000
56.4	11.2	14	5.4	8.9	154													39.5
	O	N	L	Y														EM 2000
150	13	13.1	9.6	12.1	56.4													47.8

FILENAME: Guidsign_English_8-2-13

NORTH CAROLINA D.O.T. SIGN DETAIL

REVISIONS

SIGN DESIGNS

PROJECT REFERENCE NO. B-3186 / B-5898	SHEET NO. SIGN-4G
SIGNING ENGINEER	
	
3/16/2022	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

SIGN NUMBER: 103
 TYPE: A
 QUANTITY: 1

BACKG COLOR: Blue/Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT

SIGN WIDTH: 12'-0"
 HEIGHT: 8'-6"
 TOTAL AREA: 102.0 Sq.Ft.

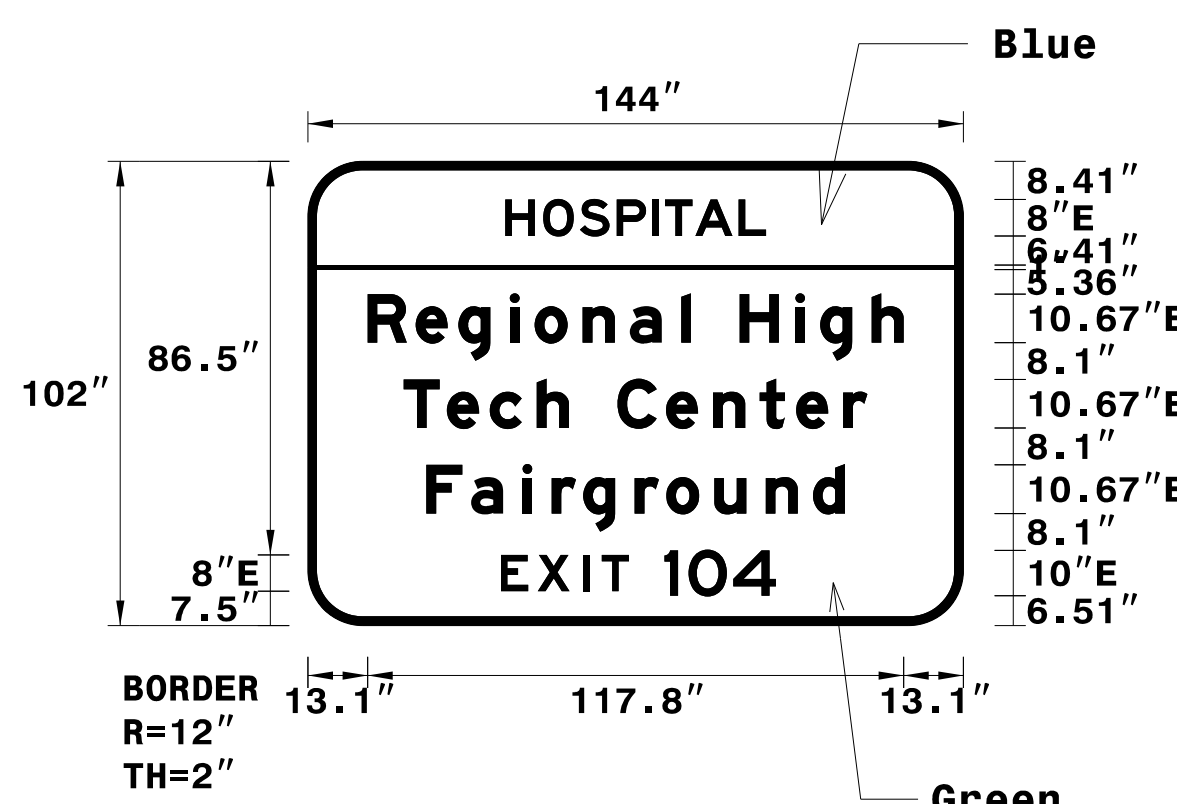
BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 12"

NO. Z BARS: 3
 LENGTH: 136.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: R DRAYTON
 PROJECT ID: B-3186_B-5898

CHECKED BY: R KING
 Jun 14, 2021
 DIV: 14



Blue

Green

INCREASE "EXIT" SPACING BY 1.20
 Spacing Factor is 1 unless specified otherwise

SIGN NUMBER: 104B
 TYPE: A
 QUANTITY: 1

BACKG COLOR: Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	70.5	96.9	45	36

SIGN WIDTH: 15'-6"
 HEIGHT: 12'-6"
 TOTAL AREA: 193.8 Sq.Ft.

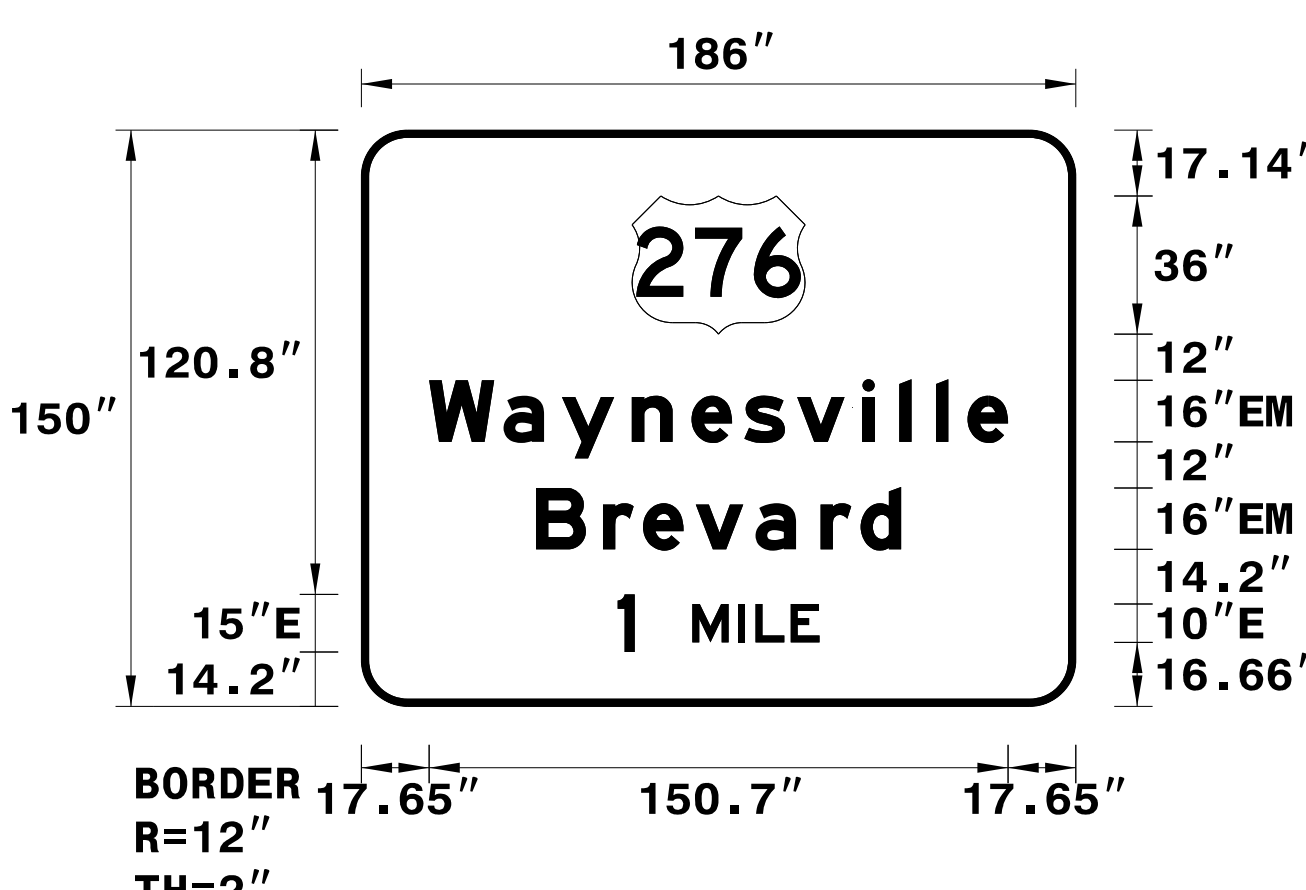
BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 12"

NO. Z BARS: 4
 LENGTH: 178.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: R DRAYTON
 PROJECT ID: B-3186_B-5898

CHECKED BY: R KING
 Jun 10, 2021
 DIV: 14



BORDER R=12" TH=2"

Spacing Factor is 1 unless specified otherwise

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.

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.

LETTER POSITIONS

Letter spacings are to start of next letter

Letter	Series/Size	Text Length
H O S P I T A L	E 2000	43.4
R e g i o n a l	EM 2000	57.3
T e c h C e n t e r	EM 2000	117.8
F a i r g r o u n d	EM 2000	101.9
E X I T	E 2000	92
1 0 4	E 2000	28.2
1 0 4	E 2000	24.5

FILENAME: Guidesign_English_8-2-13

NORTH CAROLINA D.O.T. SIGN DETAIL

LETTER POSITIONS

Letter spacings are to start of next letter

Letter	Series/Size	Text Length
W a y n e s v i l l e	EM 2000	150.7
B r e v a r d	EM 2000	95
1 M I L E	E 2000	52.6

FILENAME: Guidesign_English_8-2-13

NORTH CAROLINA D.O.T. SIGN DETAIL

REVISIONS

PROJECT REFERENCE NO. B-3186 / B-5898	SHEET NO. SIGN-4H
--	----------------------

SIGNING ENGINEER



3/16/2022

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HDR Engineering, Inc. of the Carolinas
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

SIGN NUMBER: 201
TYPE: A
QUANTITY: 1

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
AR_Type A	61.7	6	18	28.4

SIGN WIDTH: 7'-6"
HEIGHT: 5'-0"
TOTAL AREA: 37.5 Sq.Ft.

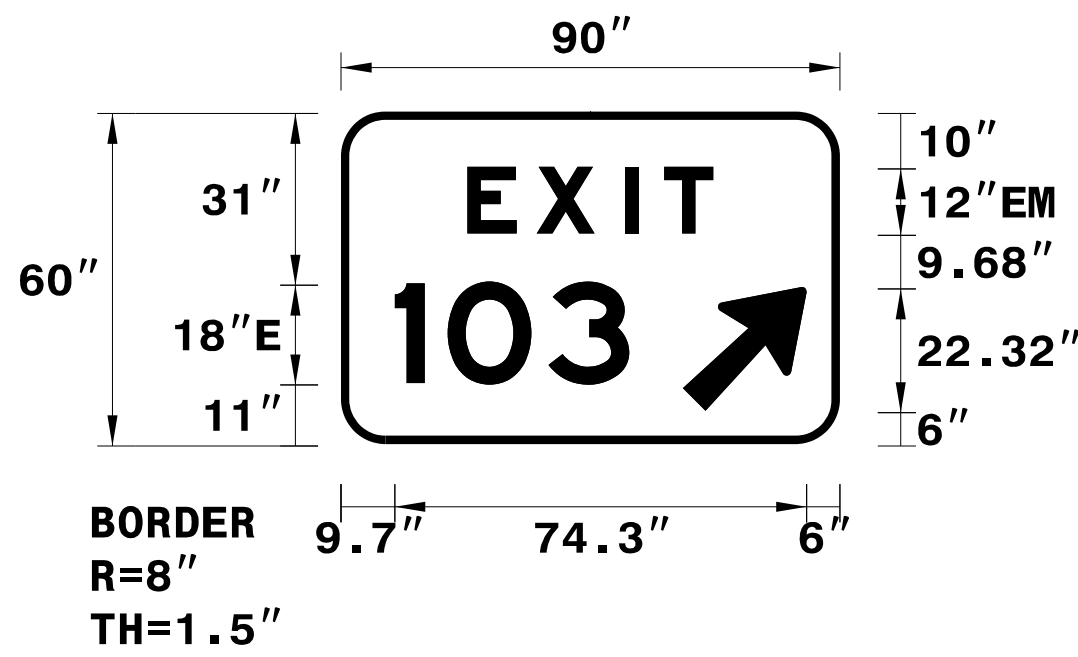
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 1.5"
RADI: 8"

NO. Z BARS: 2
LENGTH: 82.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: R DRAYTON
PROJECT ID: B-3186_B-5898

CHECKED BY: R KING
Jun 07, 2021
DIV: 14



INCREASE "EXIT" SPACING BY 2.25
Spacing Factor is 1 unless specified otherwise

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.

LETTER POSITIONS

Letter spacings are to start of next letter

	E	X	I	T	Series/Size
	22.8	12.5	15.9	7.1	EM 2000
				8.9	44.4
	1	0	3		E 2000
	9.7	9.5	18.2	14.6	42.3
	38				

FILENAME: Guidesign_English_8-2-13

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 801
TYPE: Overlay
QUANTITY: 1

BACKG COLOR: Green

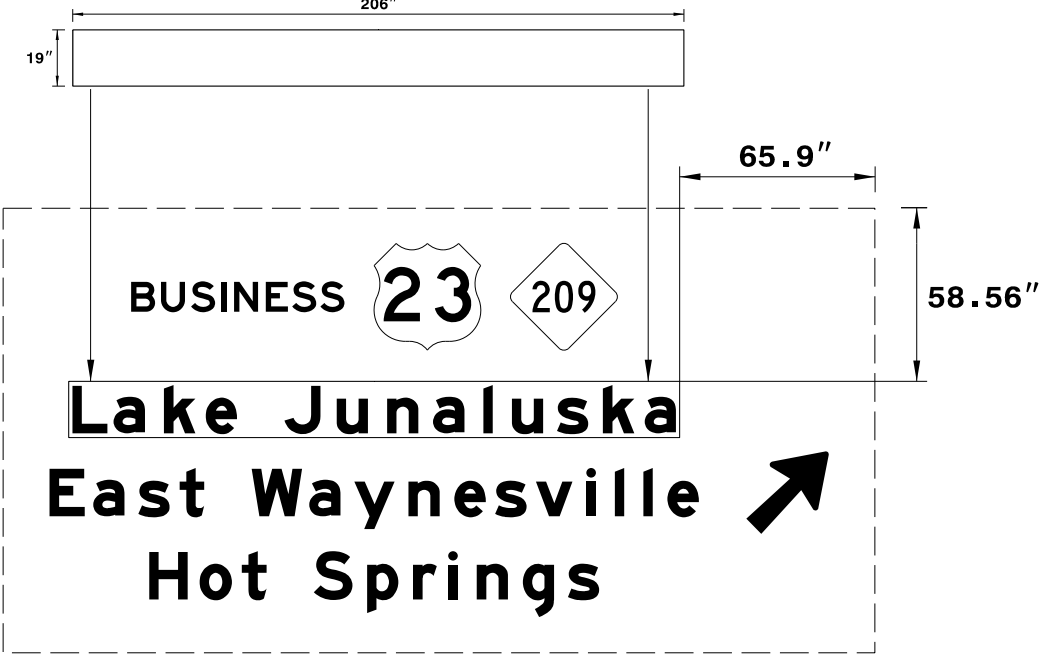
SYMBOL	X	Y	WID	HT

SIGN WIDTH: 17'-2"
HEIGHT: 1'-7"
TOTAL AREA: 27.2 Sq.Ft.

MAT'L: 0.063" (1.6 mm) ALUMINUM

DESIGN BY: R DRAYTON
PROJECT ID: B-3186_B-5898

CHECKED BY: R KING
Nov 23, 2021
DIV: 14



USE NOTE: 2

- Legend shall be direct applied Grade A Sheeting
- Background shall be Grade C reflective sheeting.

SIGN NUMBER: 301
TYPE: D
QUANTITY: 1

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
Automobile (Fro	27.3	13.3	11	

SIGN WIDTH: 5'-0"
HEIGHT: 3'-6"
TOTAL AREA: 17.5 Sq.Ft.

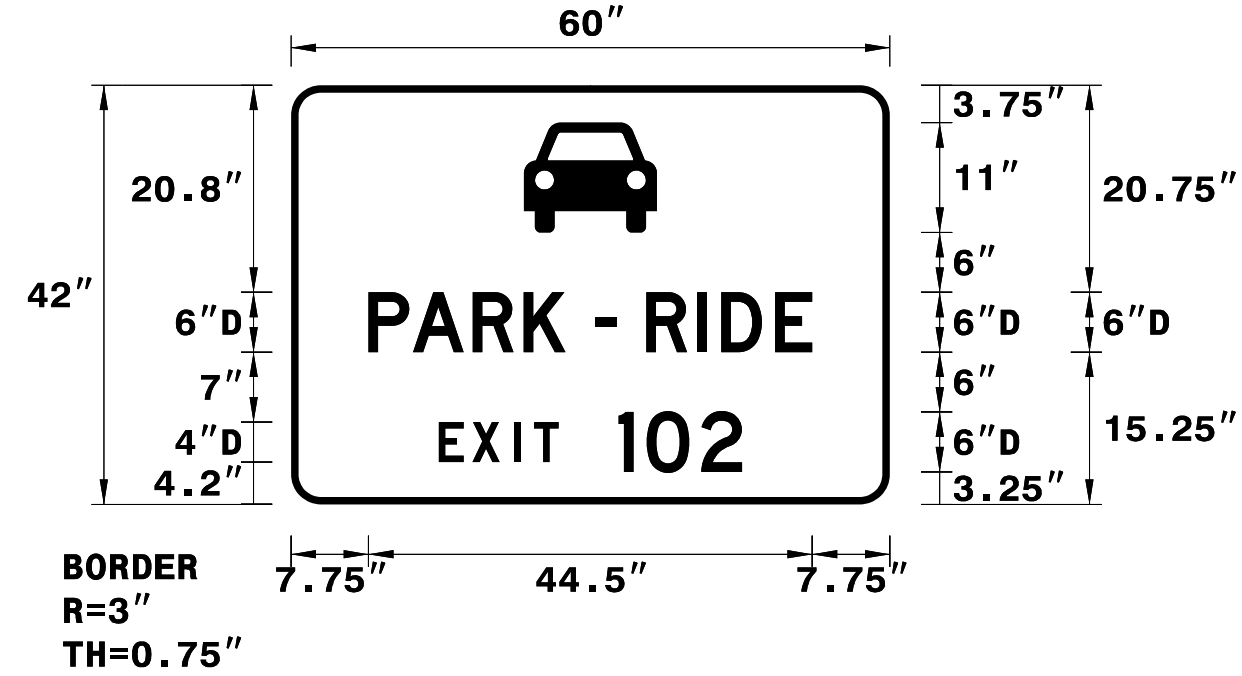
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.75"
RADI: 3"

NO. Z BARS:
LENGTH:

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: R DRAYTON
PROJECT ID: B-3186_B-5898

CHECKED BY: R KING
Jun 14, 2021
DIV: 14



INCREASE "EXIT" SPACING BY 1.20
Spacing Factor is 1 unless specified otherwise

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.

LETTER POSITIONS

Letter spacings are to start of next letter

	P	A	R	K	-	R	I	D	E	Series/Size				
	7.8	4.4	6	5.1	4.2	3	2.1	3	5.1	2.4	5.4	3.7	7.8	D 2000
														44.5
	E	X	I	T						D 2000				
	14.8	3.4	4.2	2	2.5	33.2				12				
	1	0	2							D 2000				
	32.8	2.8	5.5	4.1	14.8					12.4				

FILENAME: Guidesign_English_8-2-13

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 601
TYPE: Overlay
QUANTITY: 1

BACKG COLOR: Green

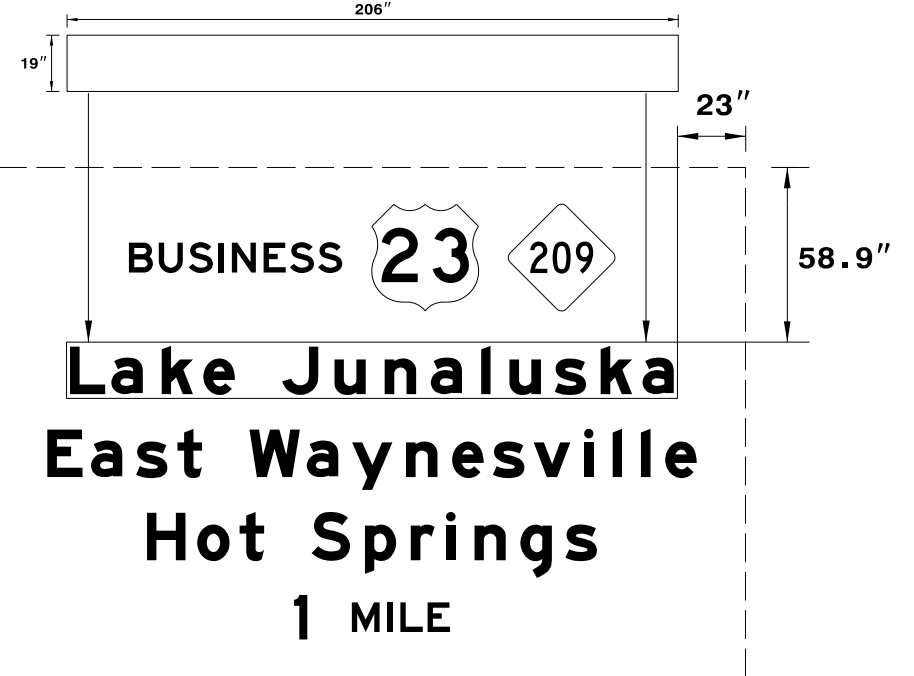
SYMBOL	X	Y	WID	HT

SIGN WIDTH: 17'-2"
HEIGHT: 1'-7"
TOTAL AREA: 27.2 Sq.Ft.

MAT'L: 0.063" (1.6 mm) ALUMINUM

DESIGN BY: R DRAYTON
PROJECT ID: B-3186_B-5898


CHECKED BY: R KING
Nov 23, 2021
DIV: 14



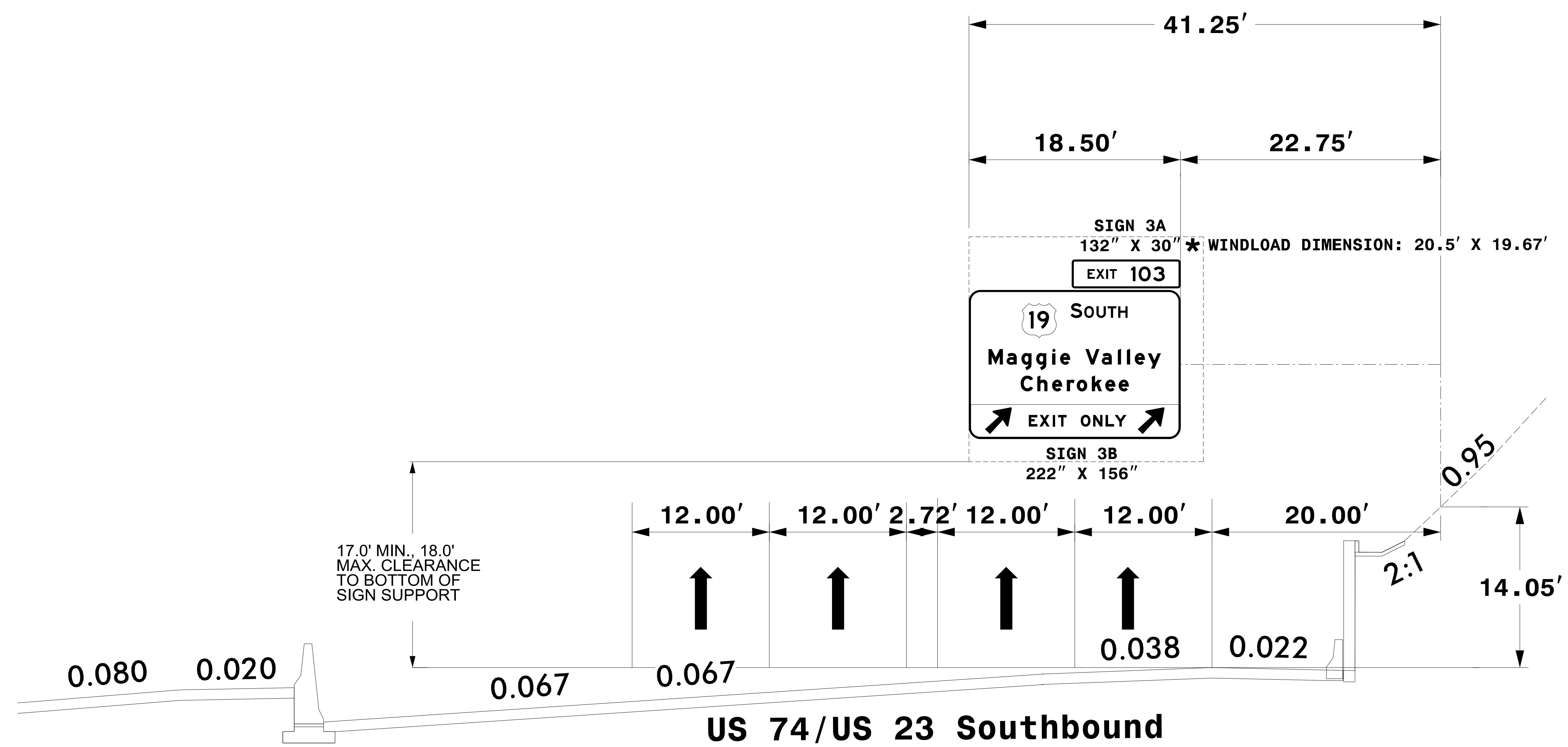
USE NOTE: 2

- Legend shall be direct applied Grade C Sheeting
- Background shall be Grade C reflective sheeting.

REVISIONS

PROJECT REFERENCE NO. B-3186 / B-5898	SHEET NO. SIGN-41
SIGNING ENGINEER	
	
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REVISIONS



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.

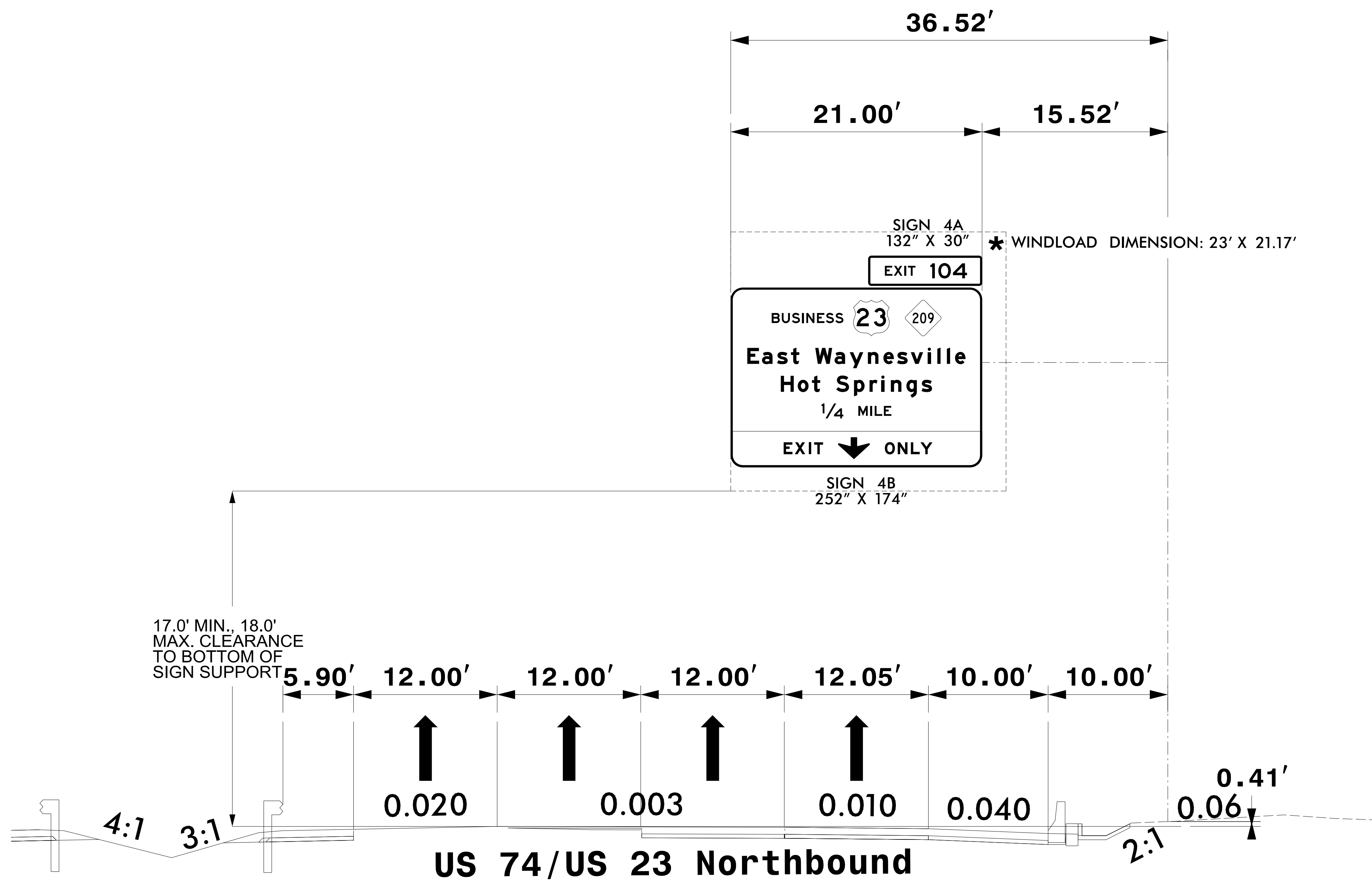
DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 120 M.P.H.

* THE FOLLOWING DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTING:

- THE WINDLOAD AREA WIDTH SHALL EXTEND 2' OUTSIDE THE PROPOSED PRIMARY SIGN ON EACH SIDE OF THE SIGN. IN CASES WHERE THE WIND LOAD AREAS OF TWO SIGNS INTERSECT, THE TALLER AREA SHALL TAKE PRIORITY. FOR CANTILEVER STRUCTURES, THE WIND LOAD AREA SHALL BE FLUSH WITH THE EDGE OF THE PRIMARY SIGN AT THE CANTILEVERED END, SUCH THAT THE WIND LOAD AREAS DO NOT EXTEND PAST THE END OF A CANTILEVER SIGN STRUCTURE
- THE WINDLOAD AREA HEIGHT SHALL EXTEND 2' BELOW THE BOTTOM OF EACH SIGN AND 2' ABOVE THE TOP OF EACH SIGN, INCLUDING SECONDARY AND SUPPLEMENTAL SIGNS AS WELL AS THE SPACING BETWEEN SIGNS ACCORDING TO RSD No. 904.20, AND EXCLUDING TEMPORARY "ALL TRAFFIC EXIT" SIGNS. THE MINIMUM VERTICAL CLEARANCE SHALL BE MEASURED FROM THE BOTTOM OF THE LOWEST WINDLOAD AREA.

Overhead Assembly "A"
Sta. 55+00 -L-

PROJECT REFERENCE NO. B-3186 / B-5898	SHEET NO. SIGN-4J
SIGNING ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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REVISIONS

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.

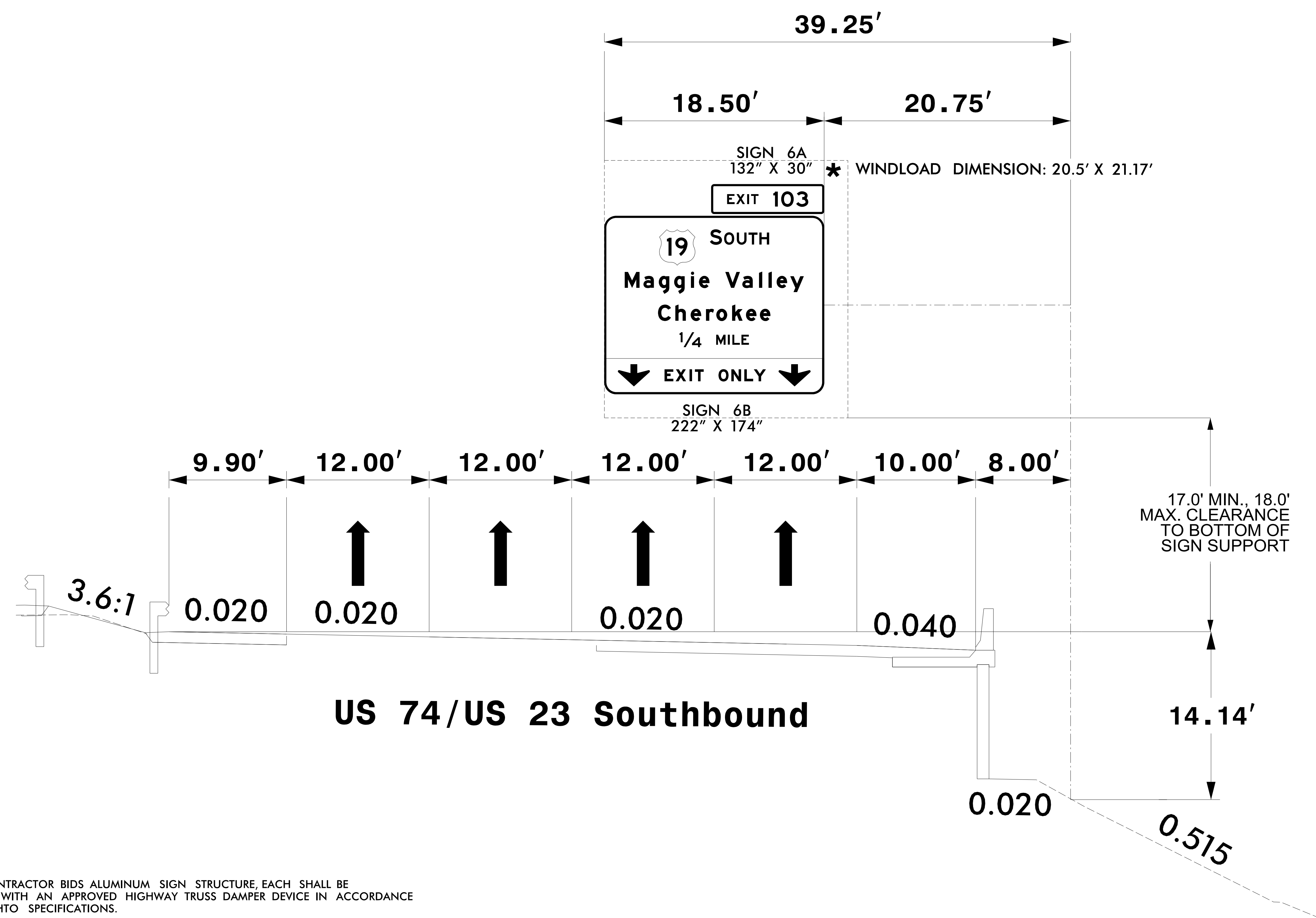
DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 120 M.P.H.

* THE FOLLOWING DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTING:

- THE WINDLOAD AREA WIDTH SHALL EXTEND 2' OUTSIDE THE PROPOSED PRIMARY SIGN ON EACH SIDE OF THE SIGN. IN CASES WHERE THE WIND LOAD AREAS OF TWO SIGNS INTERSECT, THE TALLER AREA SHALL TAKE PRIORITY. FOR CANTILEVER STRUCTURES, THE WIND LOAD AREA SHALL BE FLUSH WITH THE EDGE OF THE PRIMARY SIGN AT THE CANTILEVERED END, SUCH THAT THE WIND LOAD AREAS DO NOT EXTEND PAST THE END OF A CANTILEVER SIGN STRUCTURE
- THE WINDLOAD AREA HEIGHT SHALL EXTEND 2' BELOW THE BOTTOM OF EACH SIGN AND 2' ABOVE THE TOP OF EACH SIGN, INCLUDING SECONDARY AND SUPPLEMENTAL SIGNS AS WELL AS THE SPACING BETWEEN SIGNS ACCORDING TO RSD No. 904.20, AND EXCLUDING TEMPORARY "ALL TRAFFIC EXIT" SIGNS. THE MINIMUM VERTICAL CLEARANCE SHALL BE MEASURED FROM THE BOTTOM OF THE LOWEST WINDLOAD AREA.

Overhead Assembly "B"
Sta. 66+00 -L-

PROJECT REFERENCE NO. B-3186 / B-5898	SHEET NO. SIGN-4K
SIGNING ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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REVISIONS

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.

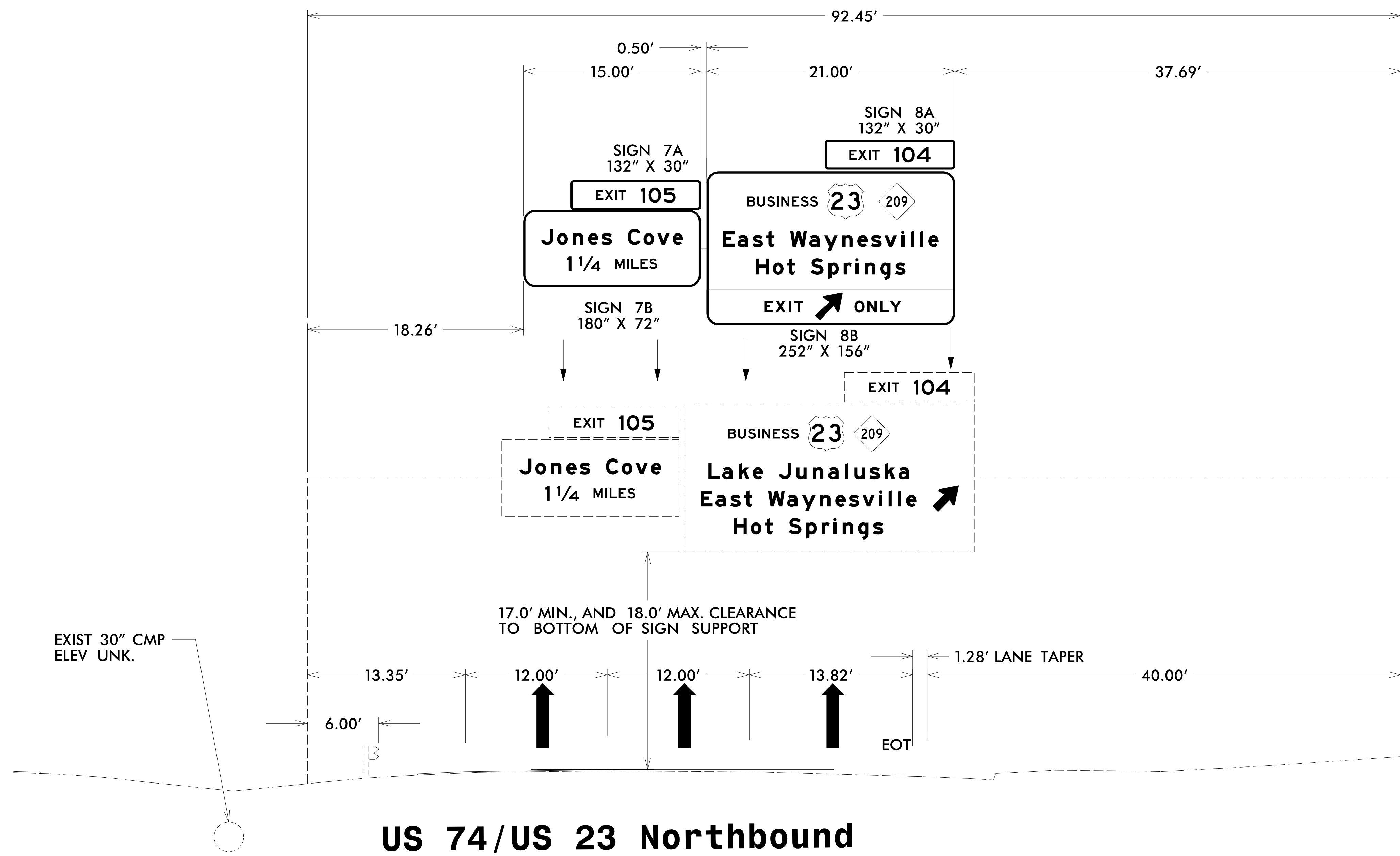
DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 120 M.P.H.

* THE FOLLOWING DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTING:

- THE WINDLOAD AREA WIDTH SHALL EXTEND 2' OUTSIDE THE PROPOSED PRIMARY SIGN ON EACH SIDE OF THE SIGN. IN CASES WHERE THE WIND LOAD AREAS OF TWO SIGNS INTERSECT, THE TALLER AREA SHALL TAKE PRIORITY. FOR CANTILEVER STRUCTURES, THE WIND LOAD AREA SHALL BE FLUSH WITH THE EDGE OF THE PRIMARY SIGN AT THE CANTILEVERED END, SUCH THAT THE WIND LOAD AREAS DO NOT EXTEND PAST THE END OF A CANTILEVER SIGN STRUCTURE
- THE WINDLOAD AREA HEIGHT SHALL EXTEND 2' BELOW THE BOTTOM OF EACH SIGN AND 2' ABOVE THE TOP OF EACH SIGN, INCLUDING SECONDARY AND SUPPLEMENTAL SIGNS AS WELL AS THE SPACING BETWEEN SIGNS ACCORDING TO RSD No. 904.20, AND EXCLUDING TEMPORARY "ALL TRAFFIC EXIT" SIGNS. THE MINIMUM VERTICAL CLEARANCE SHALL BE MEASURED FROM THE BOTTOM OF THE LOWEST WINDLOAD AREA.

Overhead Assembly "C"
Sta. 72+50 -L-

PROJECT REFERENCE NO. B-3186 / B-5898	SHEET NO. SIGN-4L
SIGNING ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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REVISIONS

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.

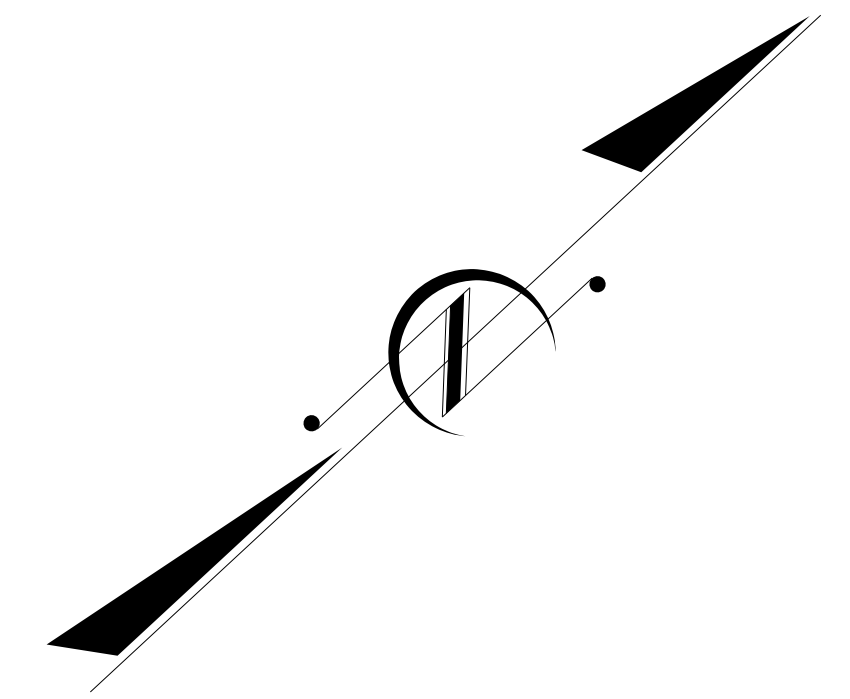
DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 120 M.P.H.

* THE FOLLOWING DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTING:

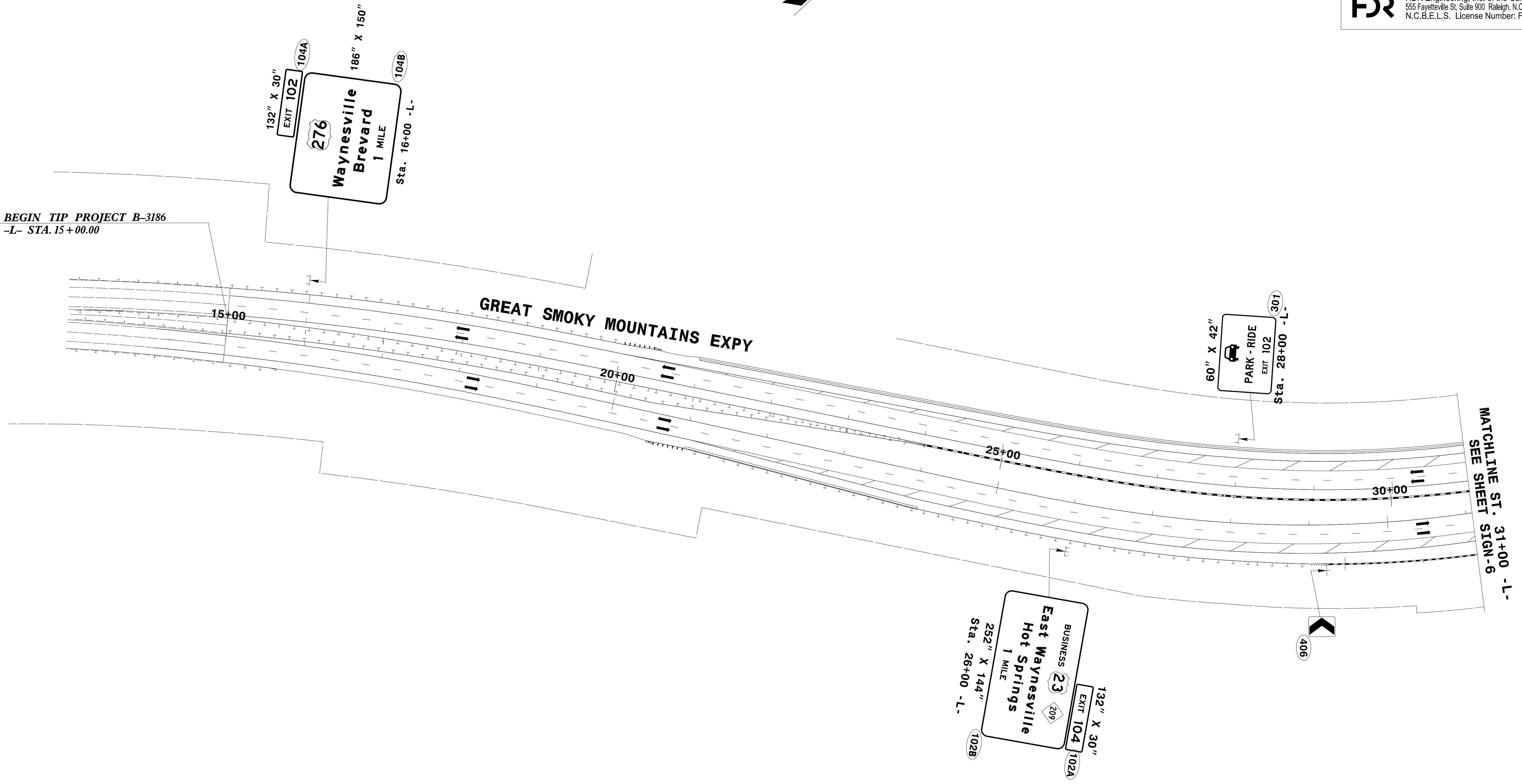
- THE WINDLOAD AREA WIDTH SHALL EXTEND 2' OUTSIDE THE PROPOSED PRIMARY SIGN ON EACH SIDE OF THE SIGN. IN CASES WHERE THE WIND LOAD AREAS OF TWO SIGNS INTERSECT, THE TALLER AREA SHALL TAKE PRIORITY. FOR CANTILEVER STRUCTURES, THE WIND LOAD AREA SHALL BE FLUSH WITH THE EDGE OF THE PRIMARY SIGN AT THE CANTILEVERED END, SUCH THAT THE WIND LOAD AREAS DO NOT EXTEND PAST THE END OF A CANTILEVER SIGN STRUCTURE
- THE WINDLOAD AREA HEIGHT SHALL EXTEND 2' BELOW THE BOTTOM OF EACH SIGN AND 2' ABOVE THE TOP OF EACH SIGN, INCLUDING SECONDARY AND SUPPLEMENTAL SIGNS AS WELL AS THE SPACING BETWEEN SIGNS ACCORDING TO RSD No. 904.20, AND EXCLUDING TEMPORARY "ALL TRAFFIC EXIT" SIGNS. THE MINIMUM VERTICAL CLEARANCE SHALL BE MEASURED FROM THE BOTTOM OF THE LOWEST WINDLOAD AREA.

**Existing
Overhead Assembly "D"
(SEE SHEET SIGN-10)**

PROJECT REFERENCE NO. B-3186 / B-5898	SHEET NO. SIGN-5
SIGNING ENGINEER	
 <small>3/16/2022</small>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-01116	



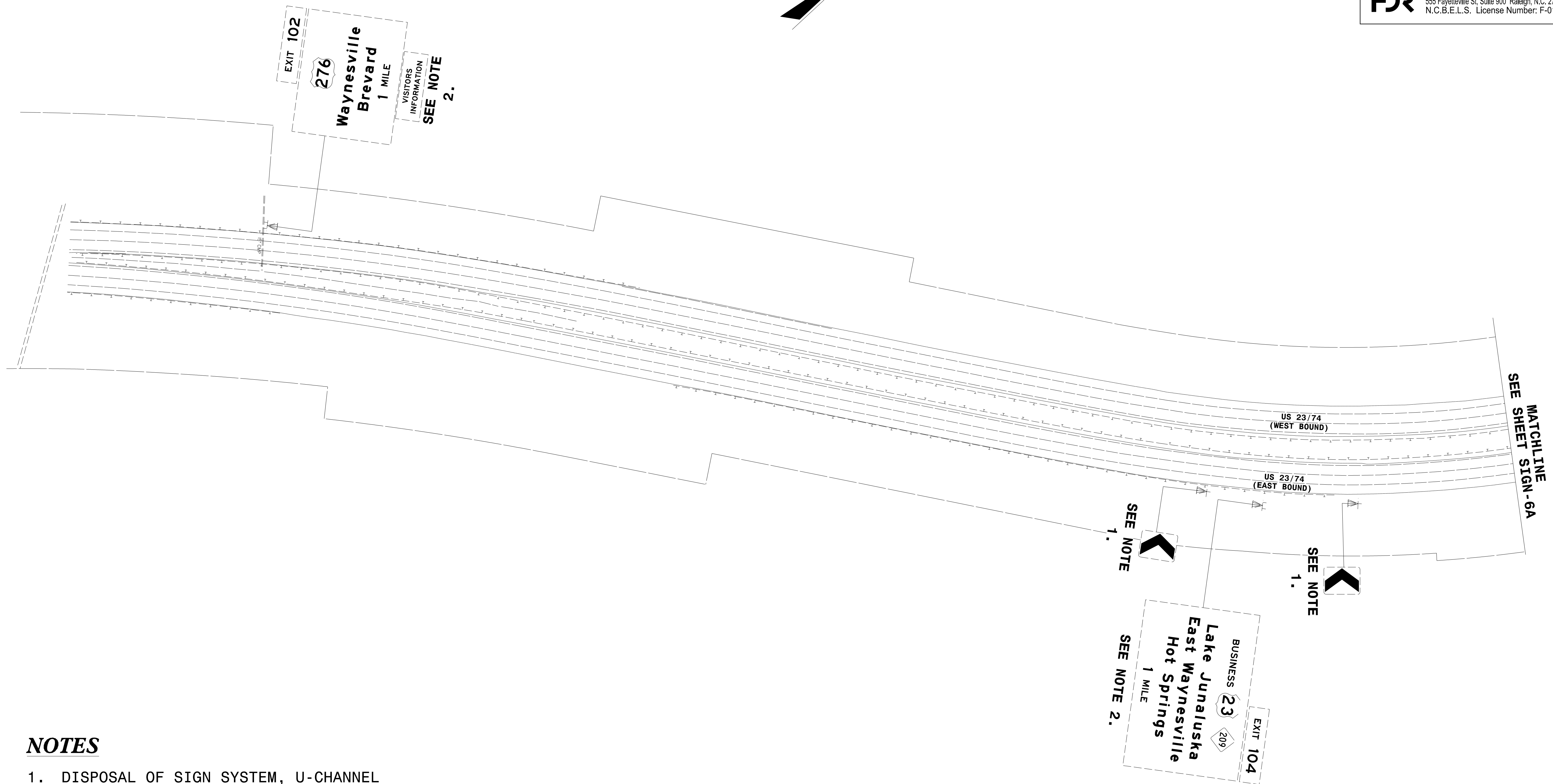
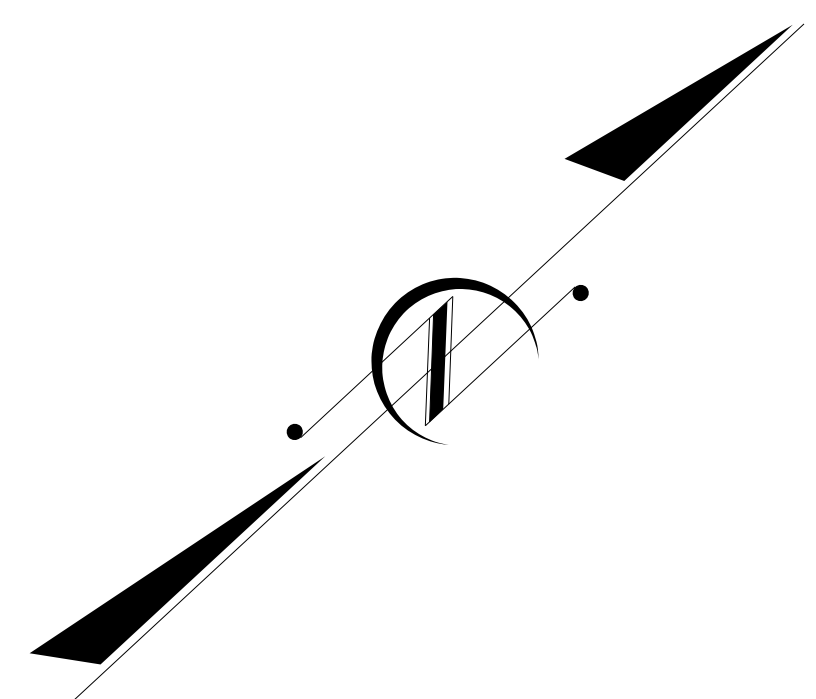
BEGIN TIP PROJECT B-3186
-L- STA. 15+00.00



REVISIONS

PLAN SHEET

PROJECT REFERENCE NO. B-3186 / B-5898	SHEET NO. SIGN-5A
SIGNING ENGINEER	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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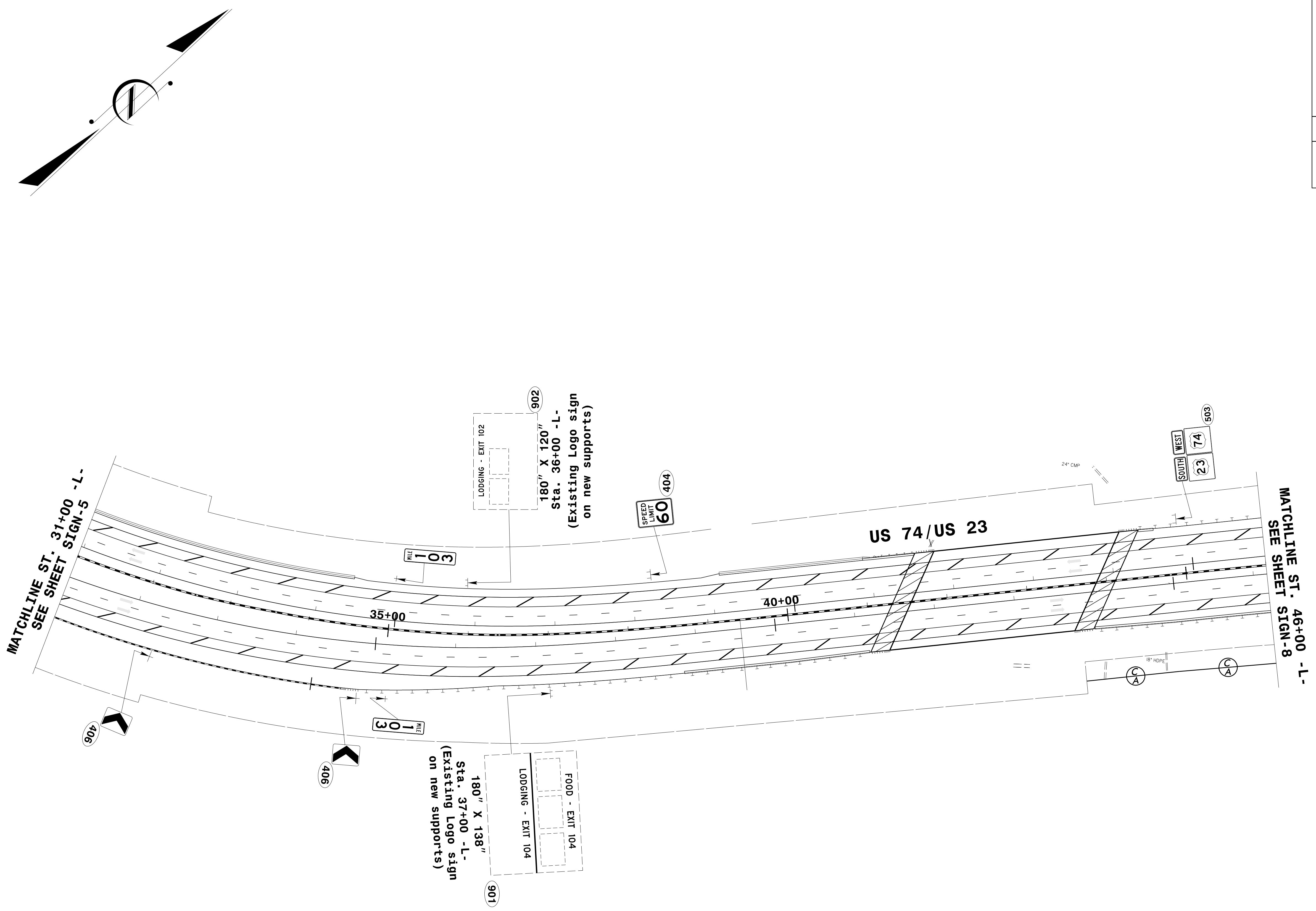
REVISIONS

NOTES

1. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
2. DISPOSAL OF SIGN SYSTEM, STEEL BEAM
3. RELOCATE SIGN, TYPE A (GROUND MOUNTED)
4. DISPOSAL OF SUPPORT, STEEL BEAM
5. DISPOSAL OF SIGN SYSTEM, OVERHEAD
6. DISPOSAL OF SIGN, A OR B (OVERHEAD)

**EXISTING
PLAN SHEET**

PROJECT REFERENCE NO. B-3186 / B-5898	SHEET NO. SIGN-6
SIGNING ENGINEER	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



REVISIONS

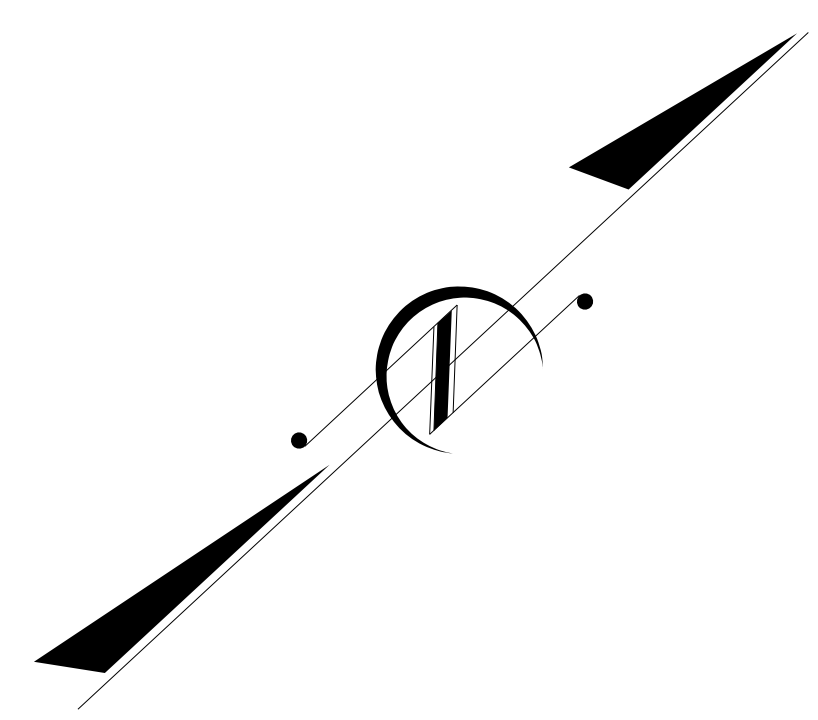
PLAN SHEET

SIGNING
ENGINEER

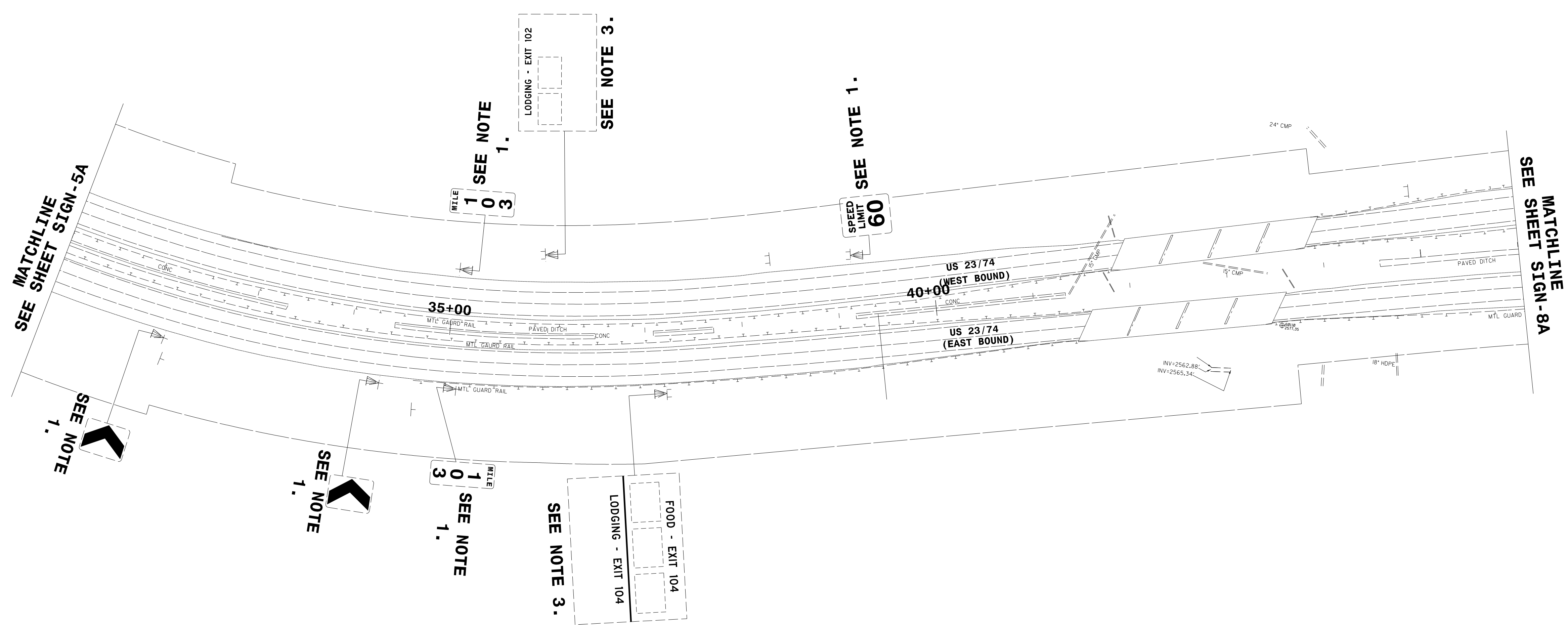
3/16/2022

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

HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116



REVISIONS



NOTES

1. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
2. DISPOSAL OF SIGN SYSTEM, STEEL BEAM
3. RELOCATE SIGN, TYPE A (GROUND MOUNTED)
4. DISPOSAL OF SUPPORT, STEEL BEAM
5. DISPOSAL OF SIGN SYSTEM, OVERHEAD
6. DISPOSAL OF SIGN, A OR B (OVERHEAD)

**EXISTING
PLAN SHEET**

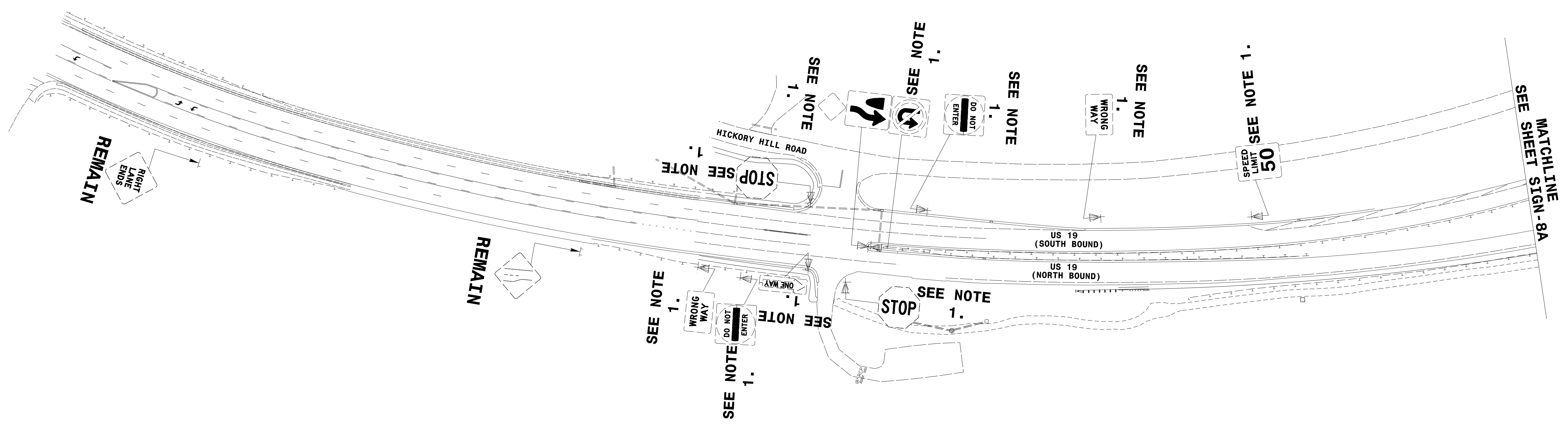
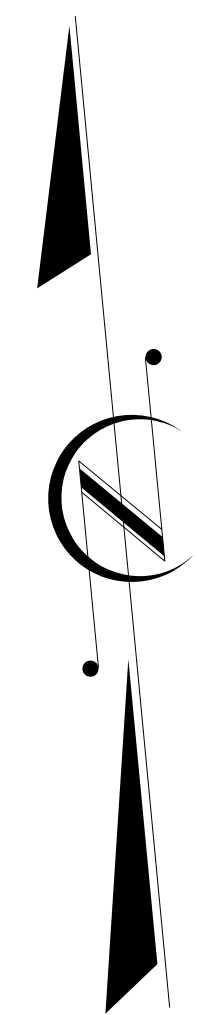
PROJECT REFERENCE NO. B-3186 / B-5898	SHEET NO. SIGN-7
SIGNING ENGINEER	
 <small>3/16/2022</small>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

REVISIONS



PLAN SHEET

PROJECT REFERENCE NO. B-3186 / B-5898	SHEET NO. SIGN-7A
SIGNING ENGINEER	
 3/16/2022	
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 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



REVISIONS

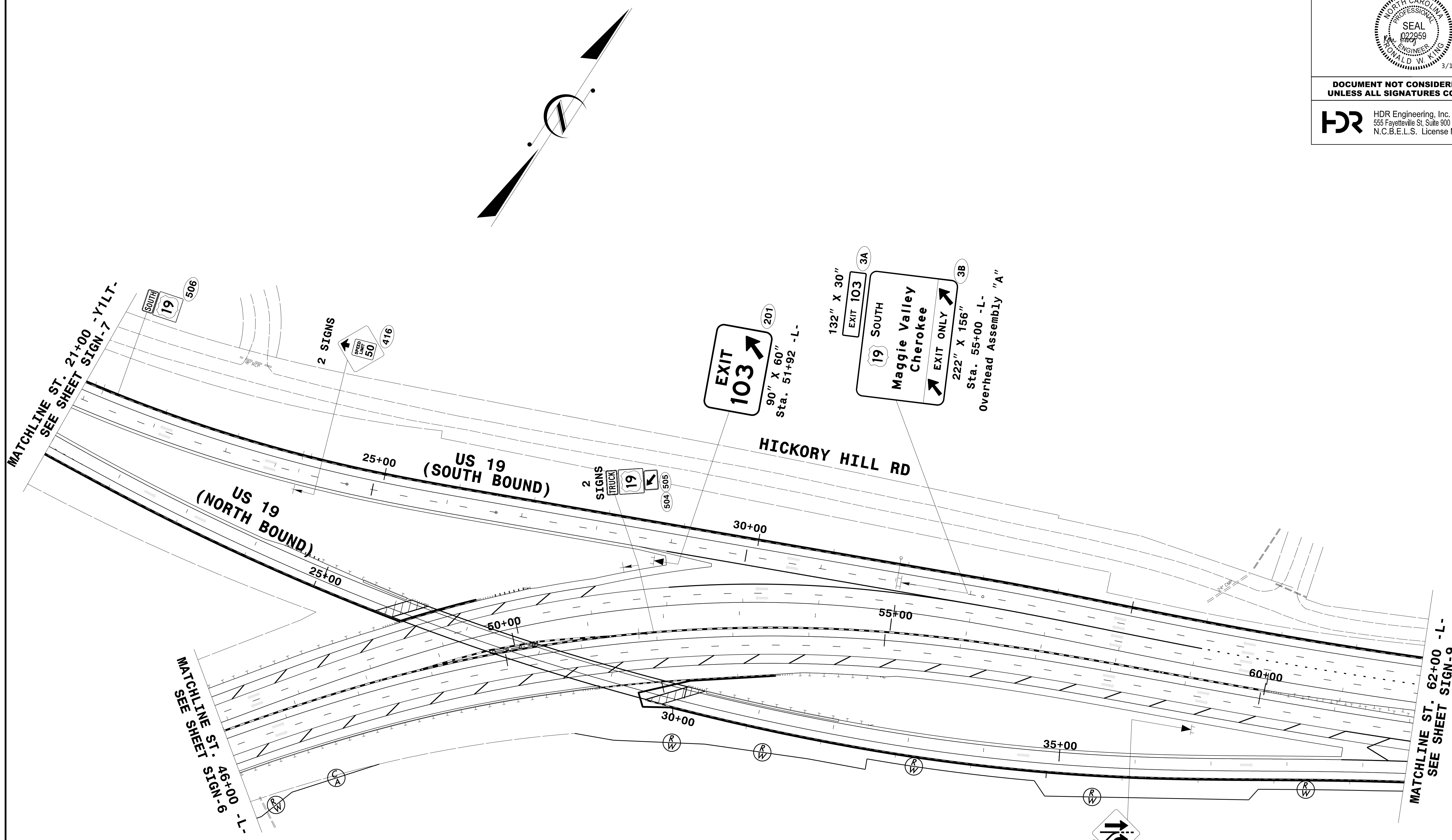
NOTES

1. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
2. DISPOSAL OF SIGN SYSTEM, STEEL BEAM
3. RELOCATE SIGN, TYPE A (GROUND MOUNTED)
4. DISPOSAL OF SUPPORT, STEEL BEAM
5. DISPOSAL OF SIGN SYSTEM, OVERHEAD
6. DISPOSAL OF SIGN, A OR B (OVERHEAD)
7. SIGN ERECTION, OVERLAY (OVERHEAD)
8. SIGN ERECTION, OVERLAY (GROUND MOUNTED)

**EXISTING
PLAN SHEET**

PROJECT REFERENCE NO. B-3186 / B-5898	SHEET NO. SIGN-8
SIGNING ENGINEER	
 <small>3/16/2022</small>	
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 HDR Engineering, Inc. of the Carolinas <small>555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-01116</small>	

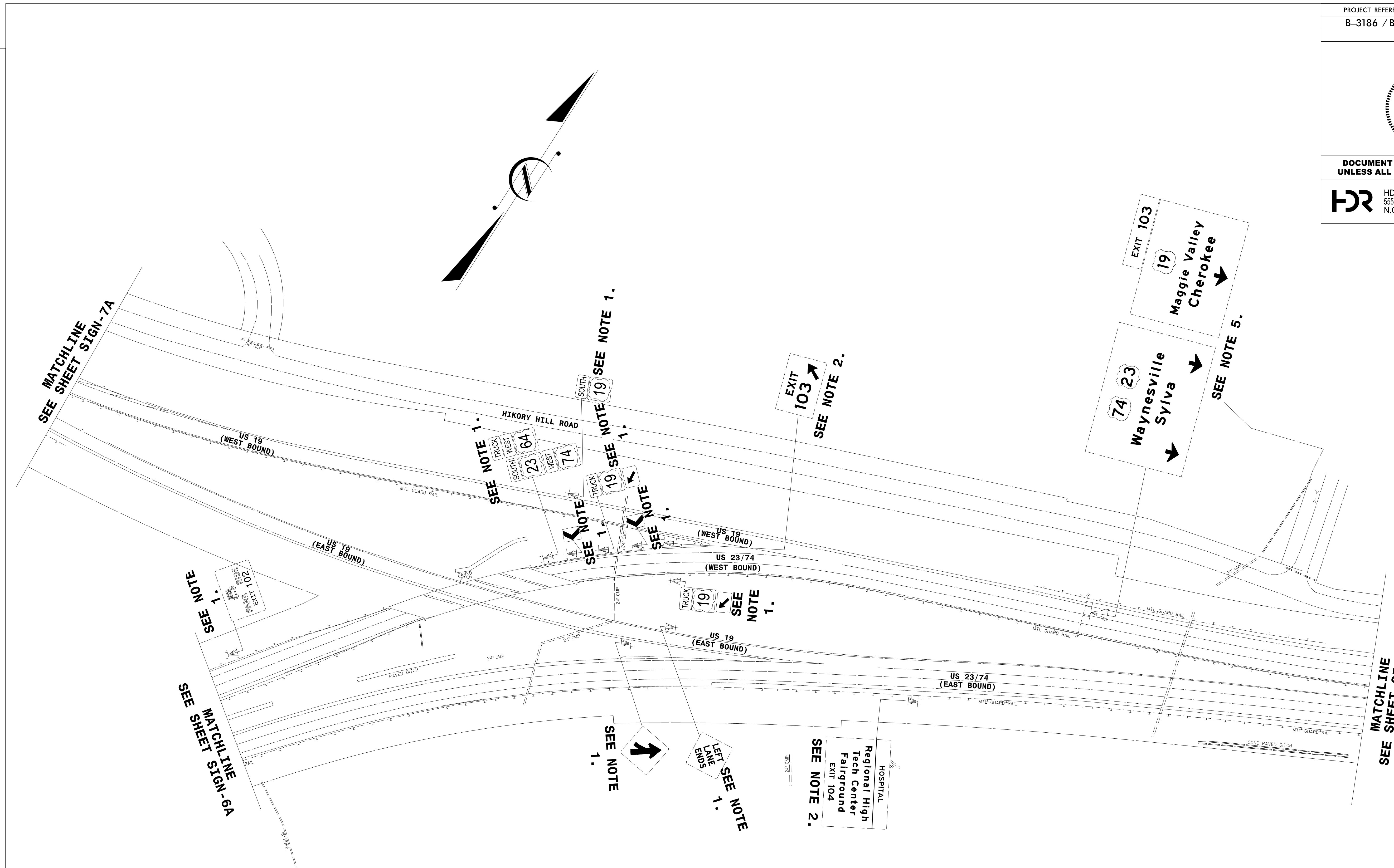
REVISIONS



PLAN SHEET

PROJECT REFERENCE NO. B-3186 / B-5898	SHEET NO. SIGN-8A
SIGNING ENGINEER	
	
3/16/2022	
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REVISIONS



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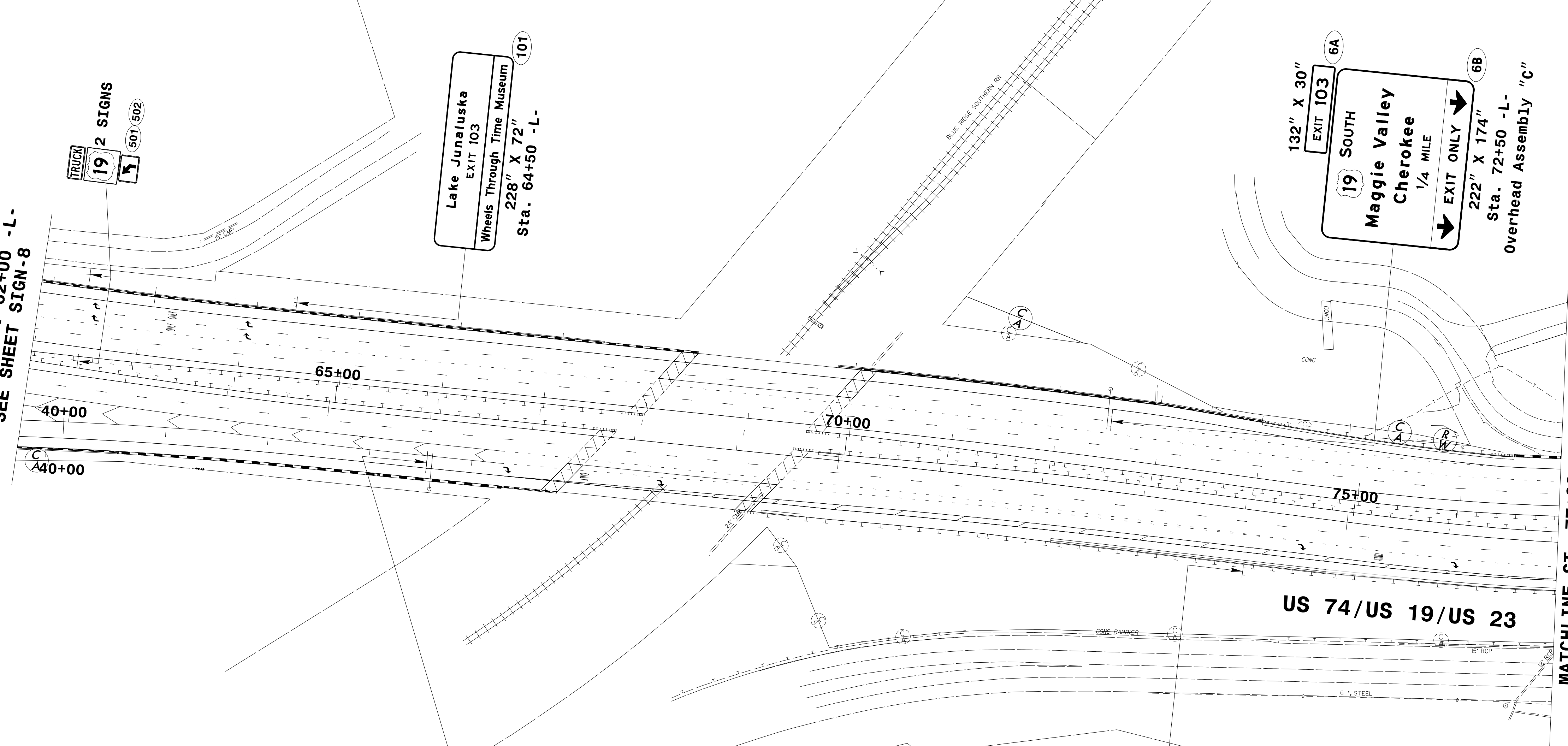
**EXISTING
PLAN SHEET**

PROJECT REFERENCE NO. B-3186 / B-5898	SHEET NO. SIGN-9
SIGNING ENGINEER	
 <small>3/16/2022</small>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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REVISIONS

MATCHLINE ST. 62+00 -L-
SEE SHEET SIGN-8

MATCHLINE ST. 77+00 -L-
SEE SHEET SIGN-10



132" X 30"
EXIT 104 (4A)

BUSINESS 23 (209)
East Waynesville
Hot Springs
1/4 MILE
EXIT ONLY (4B)
Sta. 66+00 -L-
Overhead Assembly "B"

101

Lake Junaluska
EXIT 103
Wheels Through Time Museum
228" X 72"
Sta. 64+50 -L-

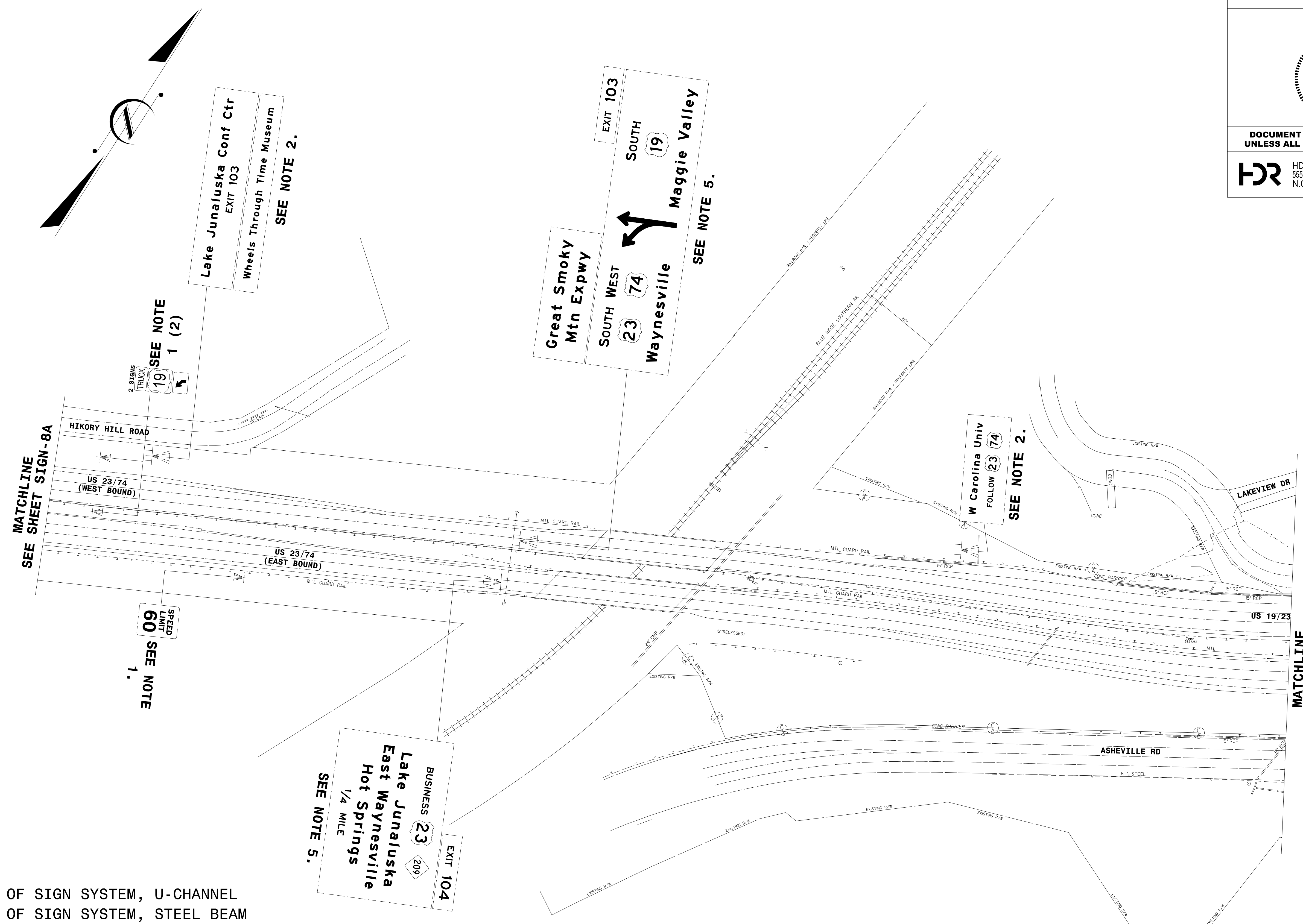
HOSPITAL
Regional High
Tech Center
Fairground
EXIT 104 (103)
144" X 102"
Sta. 74+00 -L-

132" X 30"
EXIT 103 (6A)

19 SOUTH
Maggie Valley
Cherokee
1/4 MILE
EXIT ONLY (6B)
222" X 174"
Sta. 72+50 -L-
Overhead Assembly "C"

PLAN SHEET

PROJECT REFERENCE NO. B-3186 / B-5898	SHEET NO. SIGN-9A
SIGNING ENGINEER	
	
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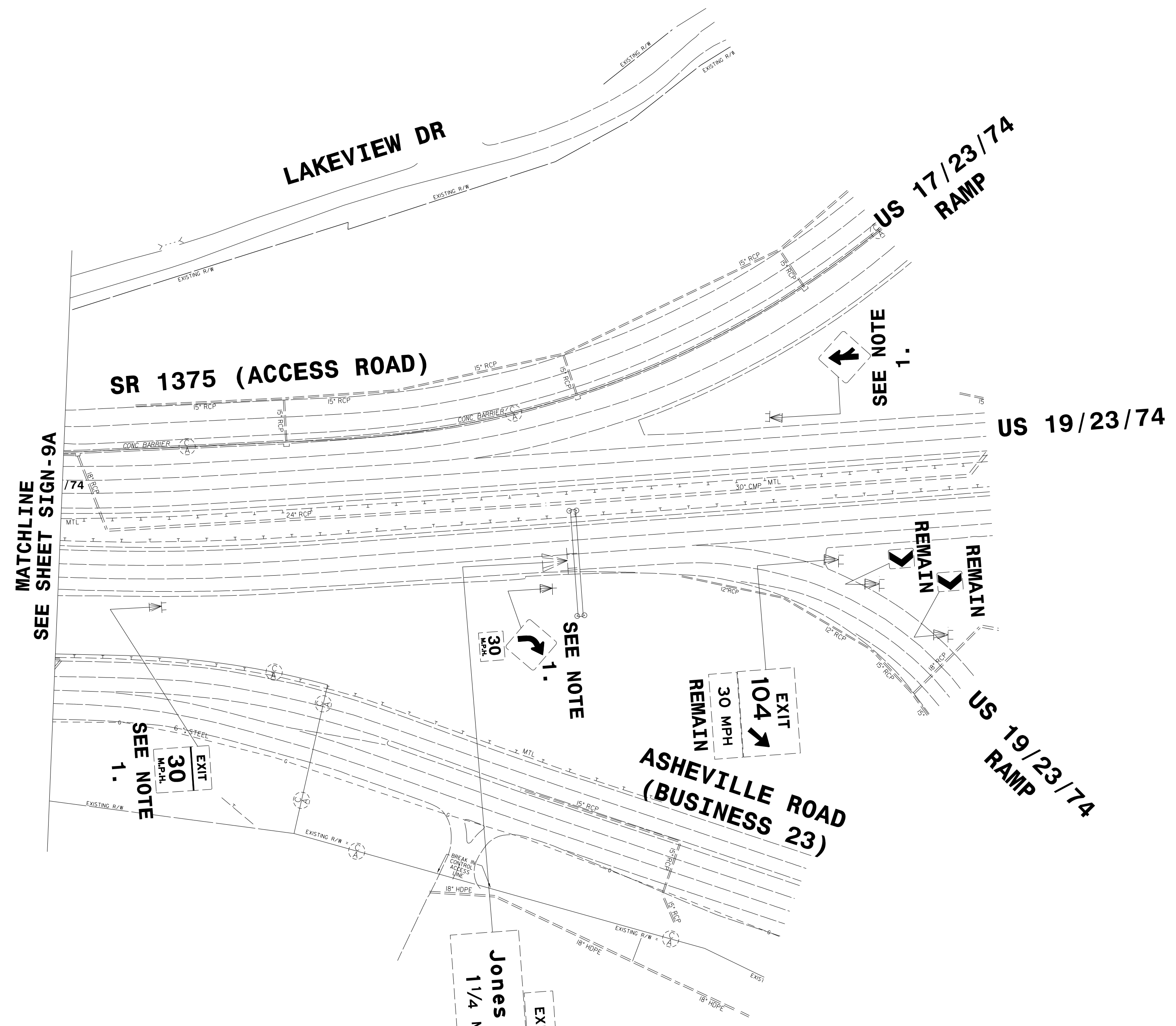
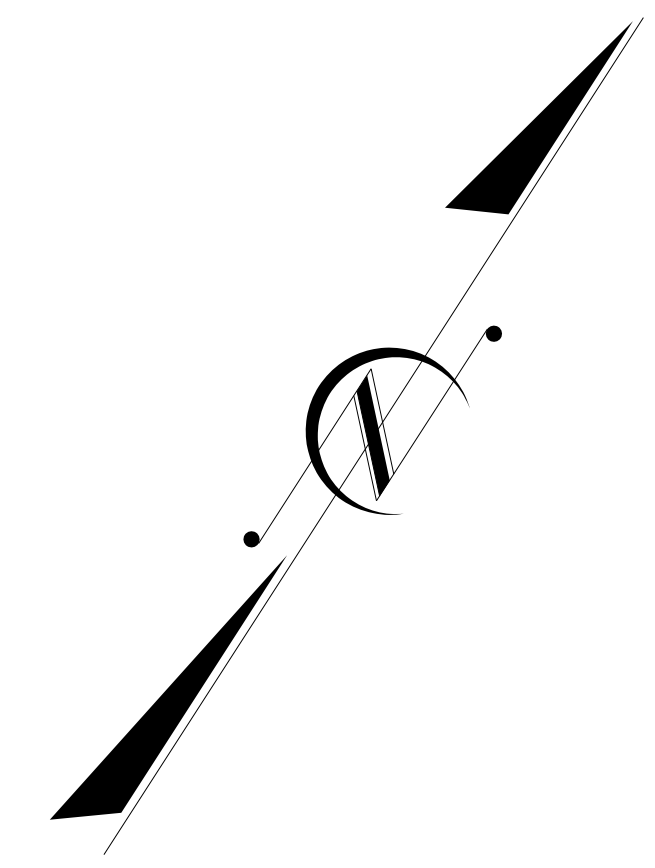
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**EXISTING
PLAN SHEET**

REVISIONS

PROJECT REFERENCE NO. B-3186 / B-5898	SHEET NO. SIGN-10A
SIGNING ENGINEER	
	
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REVISIONS

NOTES

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SEE NOTE 6.

**EXISTING
PLAN SHEET**