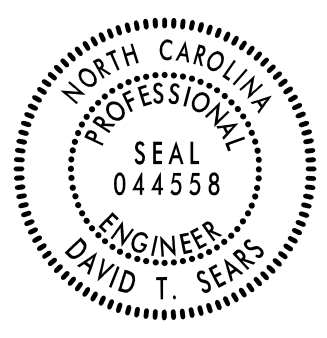


STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

TIP NO.	SHEET NO.
I-5972	SIGN-1
APPROVED: <i>David T. Sears</i>	DocuSigned By: <i>David T. Sears</i>
DATE: 9/19/2023	09183F2B5741E
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SIGNING PLAN
JOHNSTON COUNTY

LOCATION: I-95 AND US-70 BUSINESS, (E. MARKET STREET), EXIT 95 INTERCHANGE
FROM OUTLET CENTER DR. TO WEST OF YELVERTON GROVE RD.

T.I.P.: I-5972

CONTRACT: C204873

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 (SHEET 2 OF 2)
901.50	ARROWS AND SHIELDS
901.70	SIGN STRINGERS AND SUPPORT SPACING
901.80	SIGN MOUNTING DETAILS - FOR TYPE A AND TYPE B SIGNS
903.10	GROUND MOUNTED SIGN SUPPORTS (SHEETS 1 AND 3)
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)

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

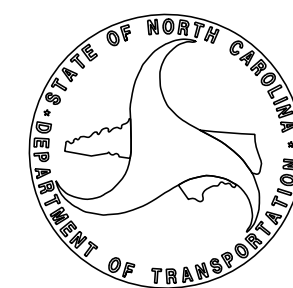
ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4048000000	902	REINFORCED CONCRETE SIGN FOUNDATION	11	C.Y.
4054000000	902	PLAIN CONCRETE SIGN FOUNDATION	2	C.Y.
4057000000	SP	OVERHEAD FOOTING	24	C.Y.
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAM	14,397	LB.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	1,113	L.F.
4082100000	906	SUPPORTS, OVERHEAD SIGN STRUCTURE @ -RPB- STA. 23+00	1	L.S.
4096000000	904	SIGN ERECTION, TYPE D	2	EA.
4102000000	904	SIGN ERECTION, TYPE E	43	EA.
4108000000	904	SIGN ERECTION, TYPE F	10	EA.
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	15	EA.
4110000000	904	SIGN ERECTION, TYPE B (GROUND MOUNTED)	6	EA.
4114000000	904	SIGN ERECTION, MILEMARKERS	4	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE A (GROUND MOUNTED)	8	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE D (GROUND MOUNTED)	1	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE E (GROUND MOUNTED)	5	EA.
4138000000	907	DISPOSAL OF SUPPORT, STEEL BEAM	8	EA.
4149000000	907	DISPOSAL OF SIGN SYSTEM, OVERHEAD	1	EA.
4152000000	907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	8	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	91	EA.
4158000000	907	DISPOSAL OF SIGN SYSTEM, WOOD	1	EA.
4192000000	907	DISPOSAL OF SUPPORT, U-CHANNEL	6	EA.

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-1A	PLAN SHEET LAYOUT
SIGN-2	SUPPORT INFORMATION
SIGN-2A-2D	DETAILS TO BE USED IN LIEU OF 2018 STANDARD DRAWINGS
SIGN-3	E AND F SIGNS
SIGN-4-4F	SIGN DESIGNS AND OVERHEAD DETAILS
SIGN-5-11	SIGN DETAIL SHEETS

PLAN SUBMITTED TO: NCDOT DIVISION 4

Paul Marak, PE DIVISION TRAFFIC ENGINEER
Mitch Eaton, PE SIGNING AND DELINEATION REGIONAL ENGINEER



PLAN PREPARED BY: RK&K ENGINEERS

David Sears, PE, PTOE Project Engineer
Allen Tutt Designer

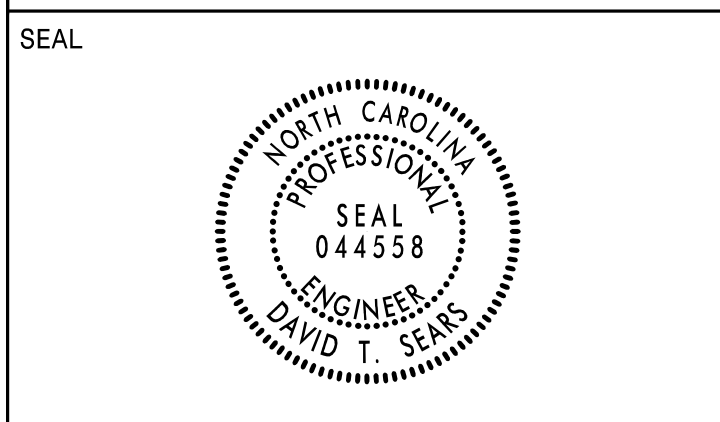


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8601 Six Forks Road, Forum 1, Suite 700
Raleigh, North Carolina 27615-3960
NC License No. F-0112

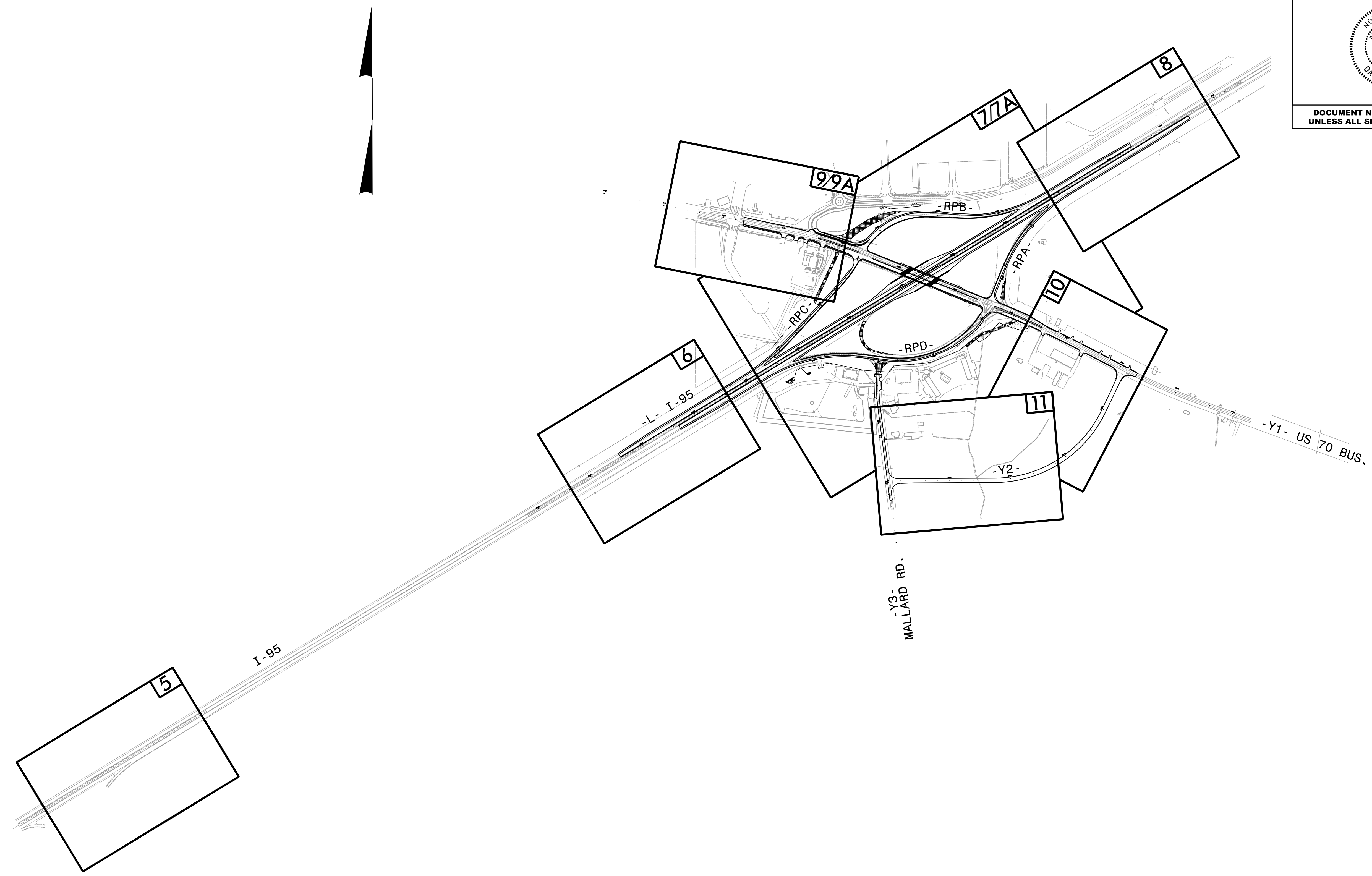
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APPROVED: *David T. Sears*
089183P28E5741E
 DATE: 9/19/2023



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08/19/23
I-5972_SIGN_LAYOUT.dgn

RK&K
 P: (919) 878-0500
 8601 Six Forks Road, Forum 1, Suite 700
 Raleigh, North Carolina 27615-3960
 NC License No. F-41112

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PLAN SHEET LAYOUT

PROJECT REFERENCE NO. I-5972	SHEET NO. SIGN-2
APPROVED: <i>David J. Sears</i> <small>089183P28E5741E 9/19/2023</small>	
DATE: 9/19/2023	
SEAL	
	
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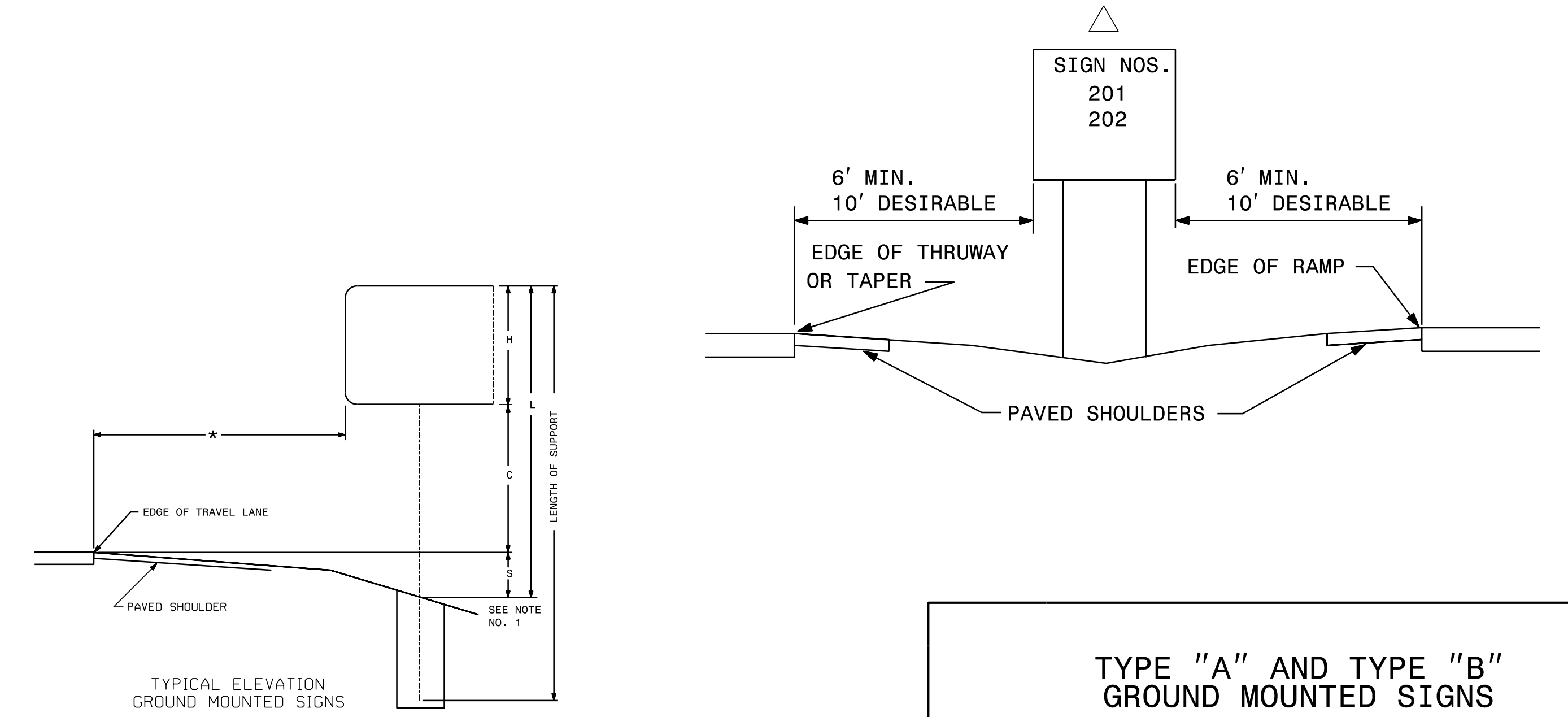
Version: 3.1 Posted: 6/2/2017

NUMBER	SIGN TYPE	SIGN SIZE (in.)			ROADWAY STATION	NUMBER OF SUPPORTS	BEAM SECTION	SUPPORT TYPE BA or S	OMNI COUPLER	ATTACHMENT METHOD	MOUNTING METHOD	HORIZONTAL CLEARANCE* (ft.)	SUPPORT SPACING	LENGTH (ft)			LEFT SUPPORT (ft)			CENTER SUPPORT (ft)			RIGHT SUPPORT (ft)			SUPPORT WEIGHTS		FOOTINGS				FIELD VERIFIED SEE NOTE 2 (mm/dd/yy)
		w	x	h										SNS HT "H"	MTG HT "C"	EMBED- MENT	S	L	LENGTH	S	L	LENGTH	S	L	LENGTH	B/A (lbs.)	SIMPLE (lbs.)	DIAMETER (ft.)	DEPTH (ft.)	REINFORCED (c.y.)	PLAIN (c.y.)	
		101A	B	114										x	30	OFFSITE	2	W10x26	BA	N/A	1-R	N/A	30.00	8.20	14.00	7.00	4.5	4.03	25.03	29.53	0.00	
101B	A	168	x	168																												
102A	B	114	x	30	L 33+39	2	W14x30	BA	N/A	1-R	N/A	30.00	8.20	15.00	7.00	4.5	4.93	26.93	31.43	0.00	0.00	0.00	6.68	28.68	33.18	2348.21	0.00	3.0	5.0	2.62	0.00	
102B	A	168	x	180																												
103	A	72	x	72	RPD 20+75	2	S4x7.7	BA	N/A	N/A	N/A	30.00	3.52	6.00	7.00	2.5	2.93	15.93	18.43	0.00	0.00	0.00	2.46	15.46	17.96	320.17	0.00	1.0	3.0	0.00	0.17	
104	A	96	x	72	RPD 22+25	2	W6x9	BA	N/A	N/A	N/A	30.00	4.69	6.00	7.00	2.5	3.63	16.63	19.13	0.00	0.00	0.00	4.62	17.62	20.12	417.25	0.00	1.5	3.0	0.39	0.00	
105	A	108	x	108	Y1 30+75	2	W6x9	BA	N/A	N/A	N/A	16.00	5.27	9.00	7.00	3.0	0.80	16.80	19.80	0.00	0.00	0.00	2.12	18.12	21.12	432.22	0.00	1.5	3.5	0.46	0.00	
106	A	78	x	78	Y1 32+50	2	S4x7.7	BA	N/A	N/A	N/A	16.00	3.81	6.50	7.00	3.0	2.34	15.84	18.84	0.00	0.00	0.00	3.29	16.79	19.79	337.47	0.00	1.0	3.5	0.00	0.20	
107	A	78	x	78	Y1 42+30	2	S4x7.7	BA	N/A	N/A	N/A	16.00	3.81	6.50	7.00	3.0	0.66	14.16	17.16	0.00	0.00	0.00	1.61	15.11	18.11	311.57	0.00	1.0	3.5	0.00	0.20	
108	A	108	x	108	Y1 44+00	2	W6x12	BA	N/A	N/A	N/A	16.00	5.27	9.00	7.00	3.5	2.06	18.06	21.56	0.00	0.00	0.00	2.93	18.93	22.43	605.92	0.00	1.5	4.0	0.52	0.00	
109A	A	72	x	60	RPB 17+00	2	S4x7.7	BA	N/A	N/A	N/A	30.25	3.52	6.50	7.00	3.0	4.06	17.56	20.56	0.00	0.00	0.00	4.04	17.54	20.54	356.47	0.00	1.0	3.5	0.00	0.20	
109B	B	90	x	18																												
110A	A	96	x	78	RPB 15+50	2	W6x12	BA	N/A	N/A	N/A	31.00	4.69	8.00	7.00	3.0	4.13	19.13	22.13	0.00	0.00	0.00	4.03	19.03	22.03	607.96	0.00	1.5	3.5	0.46	0.00	
110B	B	96	x	18																												
111	B	102	x	36	L 73+00	2	S3x5.7	BA	N/A	N/A	N/A	30.00	4.98	3.00	7.00	2.5	3.77	13.77	16.27	0.00	0.00	0.00	3.80	13.80	16.30	221.67	0.00	1.0	3.0	0.00	0.17	
112A	B	114	x	30	L 77+11	2	W10x26	BA	N/A	1-R	N/A	30.00	8.20	15.00	7.00	5.0	4.19	26.19	31.19	0.00	0.00	0.00	5.65	27.65	32.65	1939.73	0.00	2.5	5.5	2.00	0.00	
112B	A	168	x	180																												
113	A	66	x	60	Y1 25+00	2	S3x5.7	BA	N/A	N/A	N/A	16.00	3.22	5.00	7.00	2.5	2.33	14.33	16.83	0.00	0.00	0.00	3.40	15.40	17.90	233.93	0.00	1.0	3.0	0.00	0.17	
114	A	132	x	66	Y1 25+70	2	S4x7.7	BA	N/A	N/A	N/A	16.00	6.45	5.50	7.00	3.0	0.81	13.31	16.31	0.00	0.00	0.00	0.62	13.12	16.12	289.72	0.00	1.0	3.5	0.00	0.20	
201	A	78	x	60	L 44+85	1	W6x16	BA	N/A	N/A	N/A	Δ	0.00	5.00	7.00	2.5	0.00	0.00	0.00	0.97	12.97	15.47	0.00	0.00	0.00	294.52	0.00	1.5	3.0	0.20	0.00	
202	A	78	x	60	L 65+84	1	W6x16	BA	N/A	N/A	N/A	Δ	0.00	5.00	7.00	2.5	0.00	0.00	0.00	1.00	13.00	15.50	0.00	0.00	0.00	295.00	0.00	1.5	3.0	0.20	0.00	
901	A	90	x	72	RPD 23+75	2	S4x7.7	BA	N/A	N/A	N/A	30.00	4.40	6.00	7.00	3.0	3.36	16.36	19.36	0.00	0.00	0.00	4.06	17.06	20.06	343.53	0.00	1.0	3.5	0.00	0.20	
902	A	90	x	72	RPD 25+25	2	S4x7.7	BA	N/A	N/A	N/A	30.00	4.40	6.00	7.00	3.0	2.85	15.85	18.85	0.00	0.00	0.00	3.55	16.55	19.55	335.68	0.00	1.0	3.5	0.00	0.20	
903	A	90	x	72	RPD 25+25	2	W6x9	BA	N/A	N/A	N/A	30.00	4.40	6.00	7.00	2.5	4.22	17.22	19.72	0.00	0.00	0.00	4.95	17.95	20.45	425.53	0.00	1.5	3.0	0.39	0.00	
904	A	90	x	72	RPD 26+75	2	W6x9	BA	N/A	N/A	N/A	30.00	4.40	6.00	7.00	2.5	4.97	17.97	20.47	0.00	0.00	0.00	5.67	18.67	21.17	438.75	0.00	1.5	3.0	0.39	0.00	
905	A	90	x	60	RPB 21+50	2	S4x7.7	BA	N/A	N/A	N/A	30.00	4.40	5.00	7.00	3.0	2.87	14.87	17.87	0.00	0.00	0.00	3.74	15.74	18.74	321.88	0.00	1.0	3.5	0.00	0.20	
906	A	90	x	108	RPB 20+00	2	W6x12	BA	N/A	N/A	N/A	30.00	4.40	9.00	7.00	3.0	3.39	19.39	22.39	0.00	0.00	0.00	2.86	18.86	21.86	609.02	0.00	1.5	3.5	0.46	0.00	
907	A	90	x	108	RPB 20+00	2	W6x9	BA	N/A	N/A	N/A	30.00	4.40	9.00	7.00	3.0	2.97	18.97	21.97	0.00	0.00	0.00	2.75	18.75	21.75	457.52	0.00	1.5	3.5	0.46	0.00	
908	A	90	x	108	RPB 18+50	2	W6x12	BA	N/A	N/A	N/A	30.00	4.40	9.00	7.00	3.0	3.61	19.61	22.61	0.00	0.00	0.00	3.40	19.40	22.40	618.14	0.00	1.5	3.5	0.46	0.00	

TOTAL	14396.14	TOTAL	0.00	TOTAL	10.82	TOTAL	1.95
USE:	14397.00		0.00		11.00		2.00

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

08/19/23 15472 SIGN-support char-t.dgn

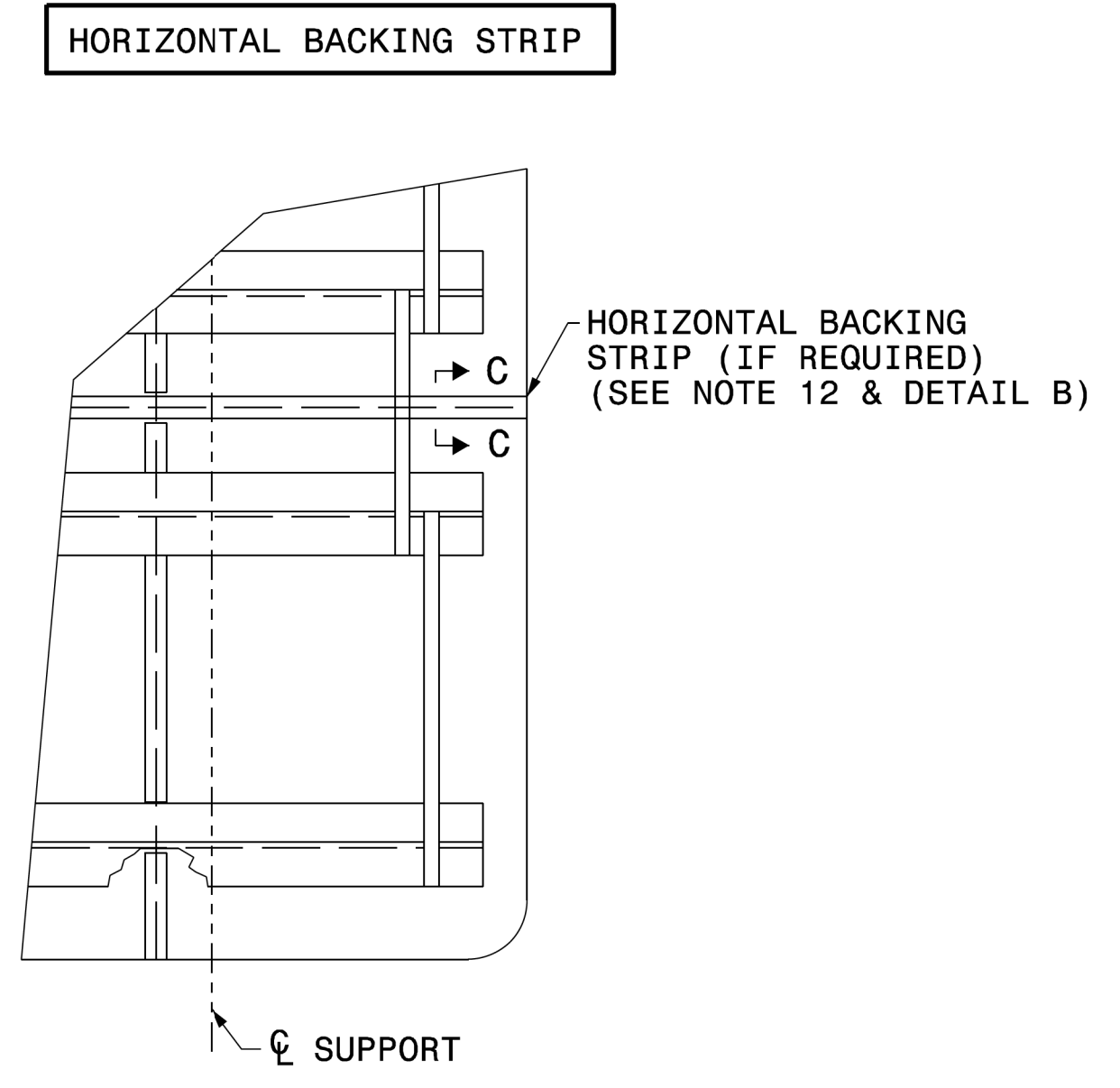
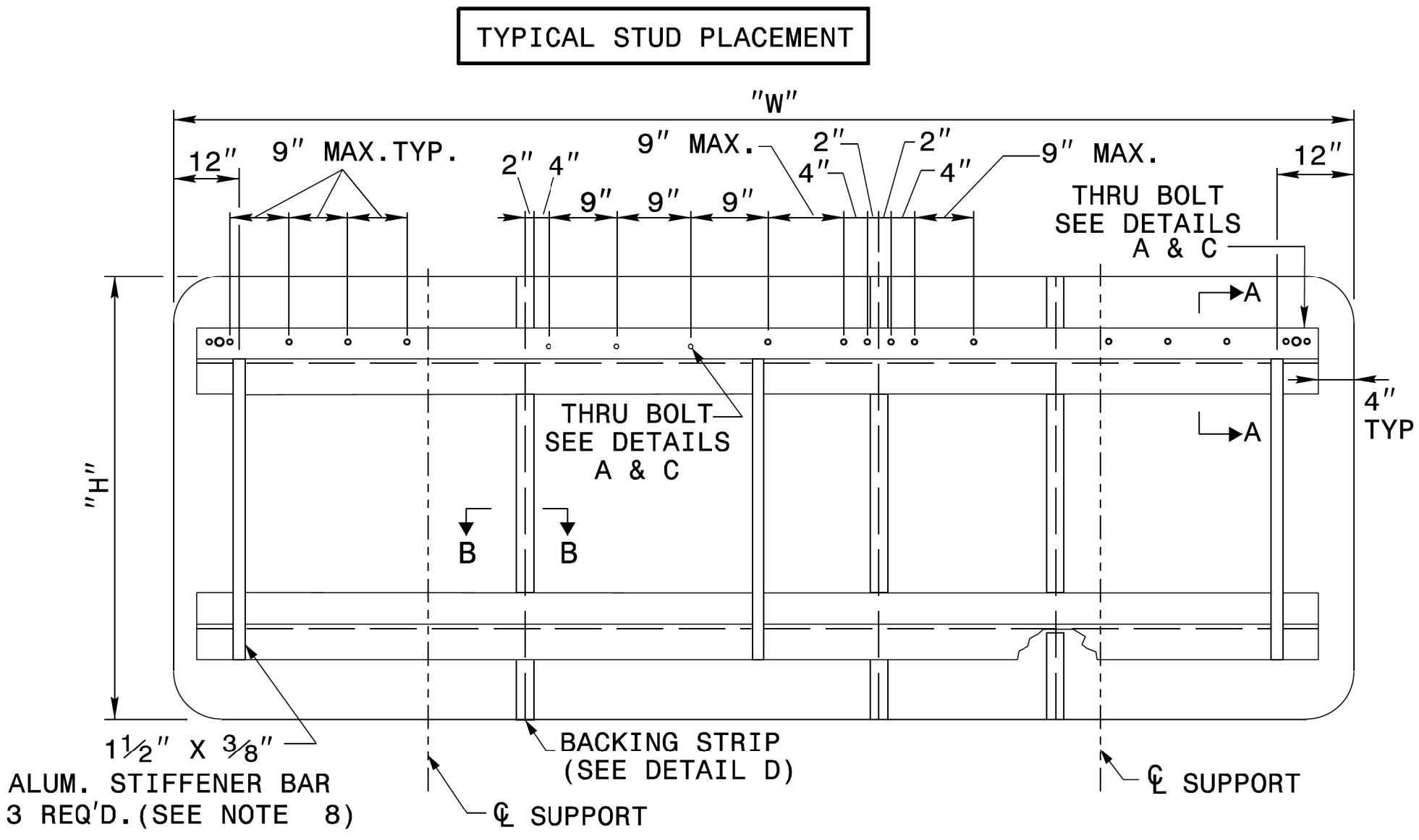
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TIP NO.	SHEET NO.
I - 5972	SECTION - 2A
APPROVED:	<i>Matthew V. Springer</i>
DATE:	3/21/2019
SEAL	042546

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

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

SHEET 1 OF 2
901D10



- NOTES:
- USE THE NUMBER AND SIZE OF SUPPORTS SHOWN ON THE SUPPORT CHART IN PROJECT PLANS.
 - 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.
 - SEE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, FOR TYPE OF MATERIAL TO BE USED FOR SIGN PANELS, HANGER ASSEMBLIES, AND SUPPORTS.
 - USE GALVANIZED STEEL FOR BACKING PLATES AND MOUNTING BOLTS.
 - SEE ROADWAY STANDARD 904.20 WHEN TYPE "B" SECONDARY SIGN MOUNTING IS REQUIRED.
 - DETAILS FOR TYPE "A" SECONDARY SIGNS SHALL BE THE SAME AS FOR TYPE "A" SIGNS.
 - THE VERTICAL DIMENSION BETWEEN PRIMARY AND SECONDARY SIGNS IS TWO (2) INCHES.
 - ADJUST STIFFENERS TO AVOID CONFLICT WITH SUPPORTS.
 - SEE ROADWAY STANDARD 901.70 FOR SUPPORT AND "Z" BAR SPACING.
 - 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)
 - FABRICATE SIGNS TALLER THAN 12'-0" BUT SHORTER THAN 14'-6" WITH A HORIZONTAL SPLICE LOCATED 7'-0" FROM BOTTOM OF SIGN.
 - 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.
 - THERE SHALL ONLY BE A 1/8" GAP BETWEEN THE VERTICAL BACKING STRIP AND THE "Z" BAR.
 - SEE ROADWAY STANDARD 901.80 FOR DETAILS SHOWING SIGN MOUNTING TO SUPPORTS.
 - PLACE NYLON WASHER UNDER HEAD OF 3/8" THRU BOLTS.
 - 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.
 - 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.
 - THRU BOLTS WILL HAVE A MINIMUM 1/16" TO MAXIMUM 1/8" GAP

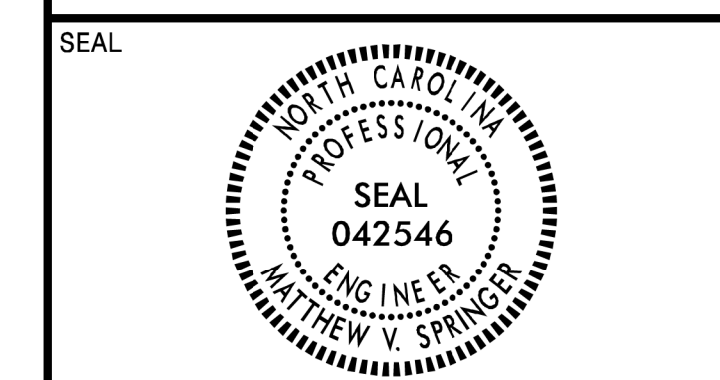
STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

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

SHEET 1 OF 2
901D10

**REVISED SIGNING
 ROADWAY STANDARD DRAWING**

03/20/19 S:\S&DU\Standards Group\Standards and Drawings\Drawings\2018 Standard Dwgs\Division 9 Final\09010_sgn_sht01_type a_sgn_2-19.dgn User:dstokes

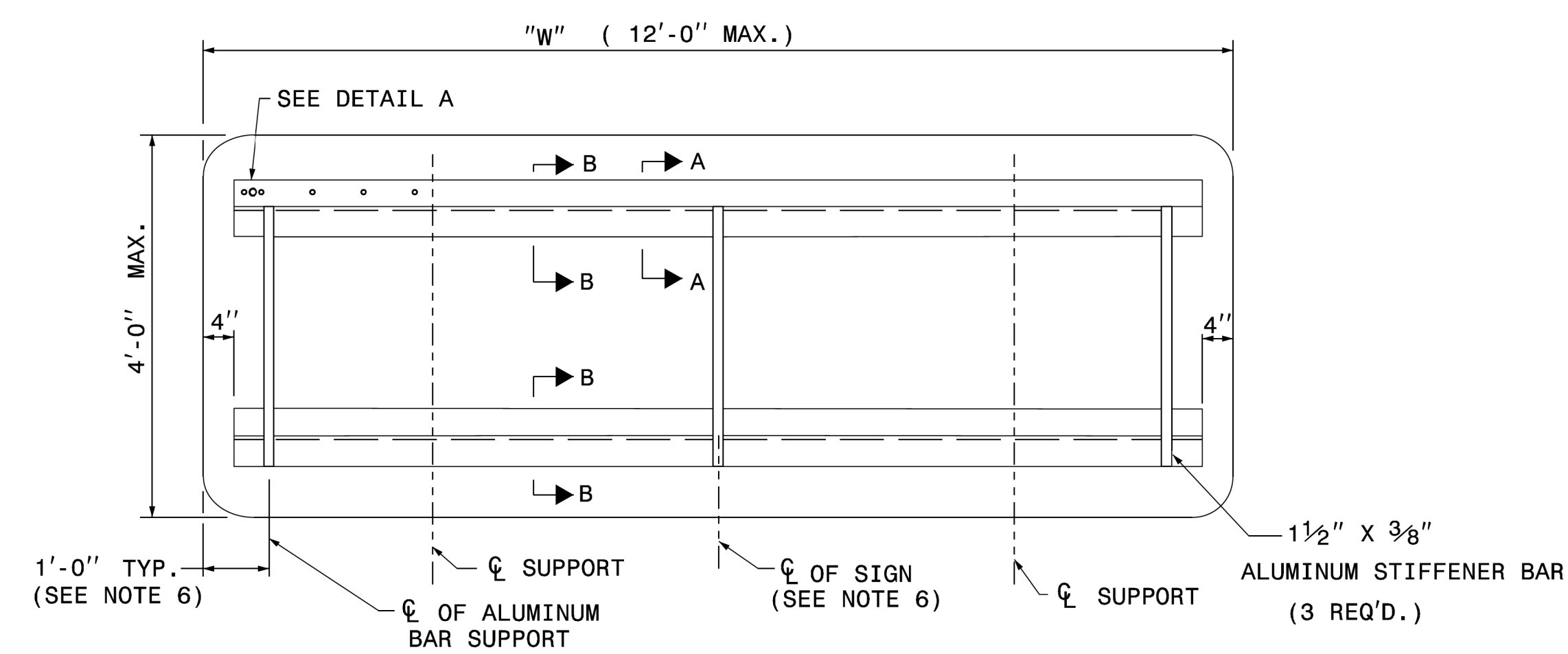
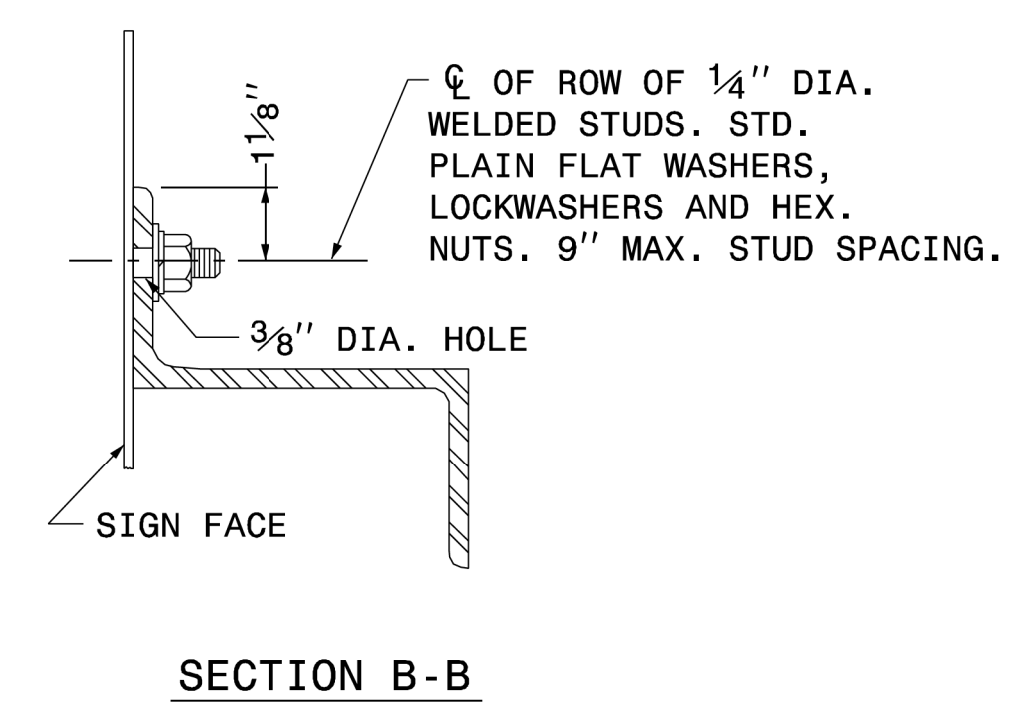
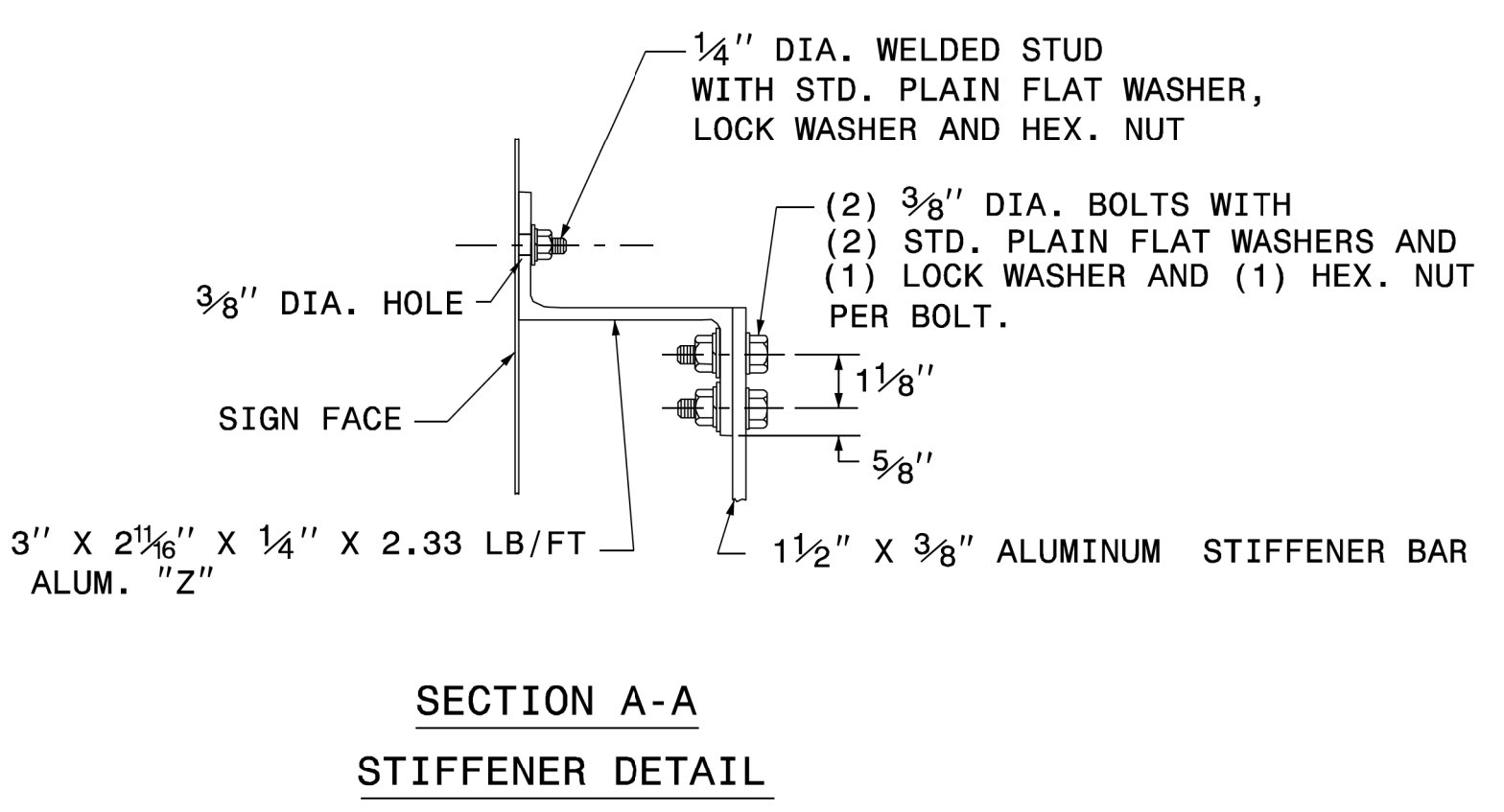
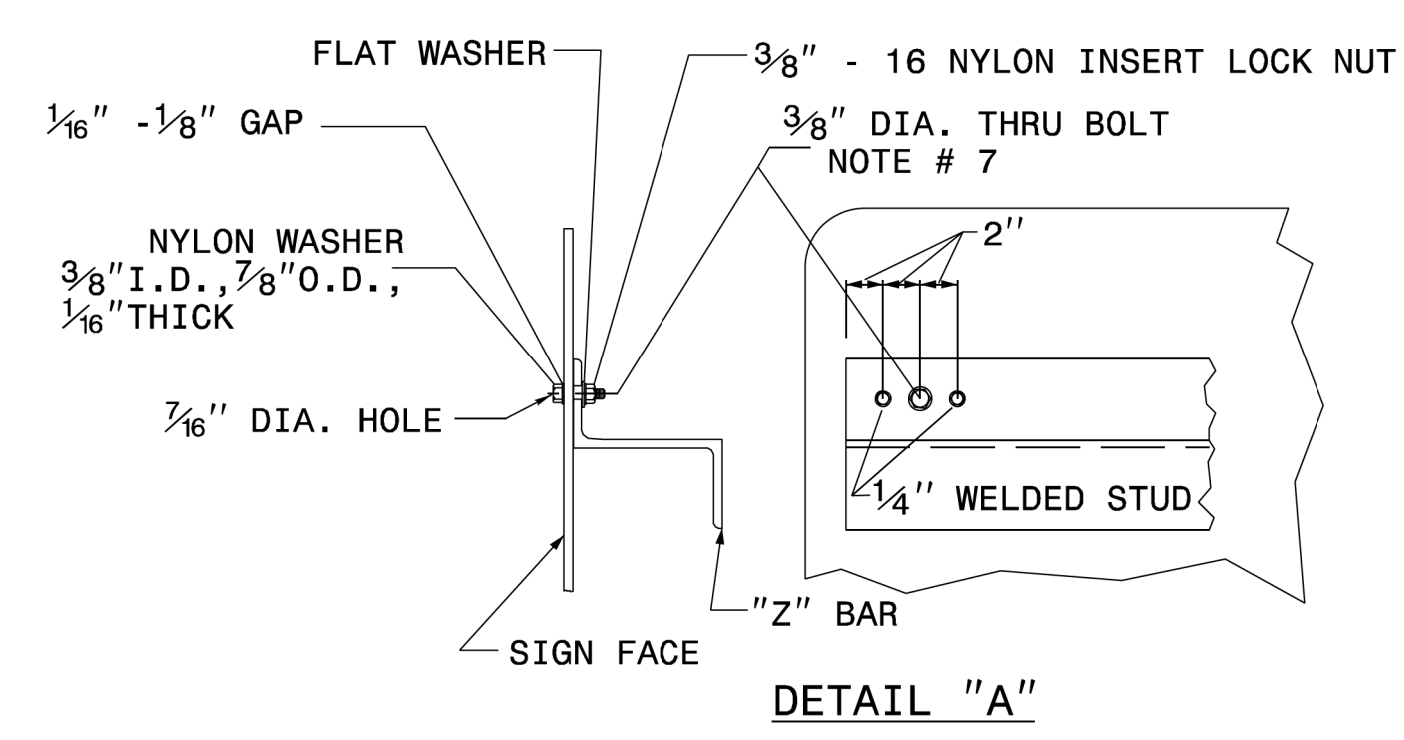


STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

2-19

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

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.

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

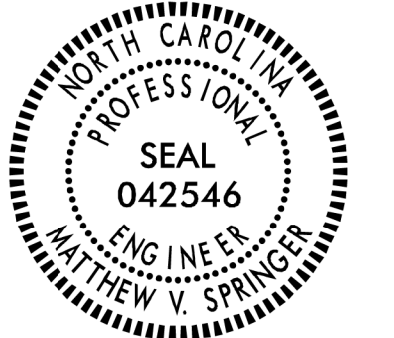
2-19

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

SHEET 1 OF 1
901D20

REVISED SIGNING
ROADWAY STANDARD DRAWING

03/20/18 S:\SQUIS\Standards and Drawings\Drawings\2018 Standard Dwg\Division 9 Final\090120.sgn_type b sign_2-19.dgn User:dstokes

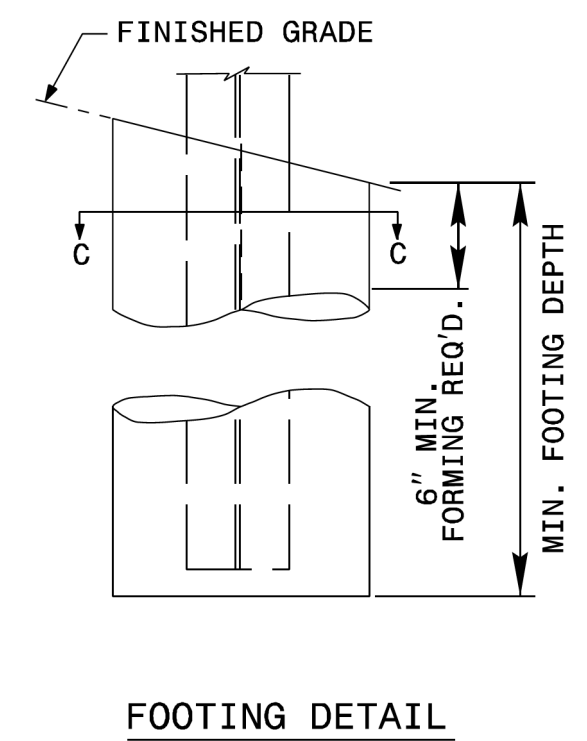
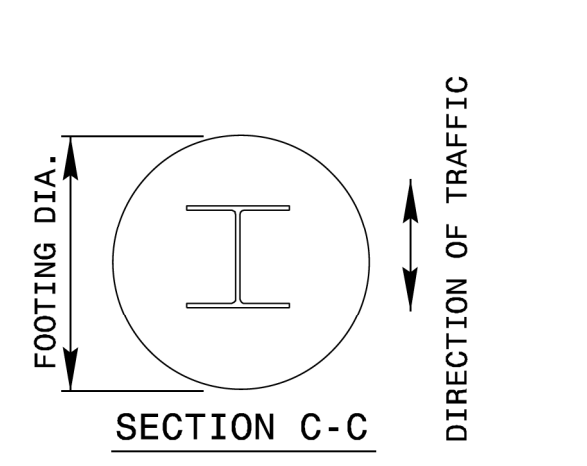
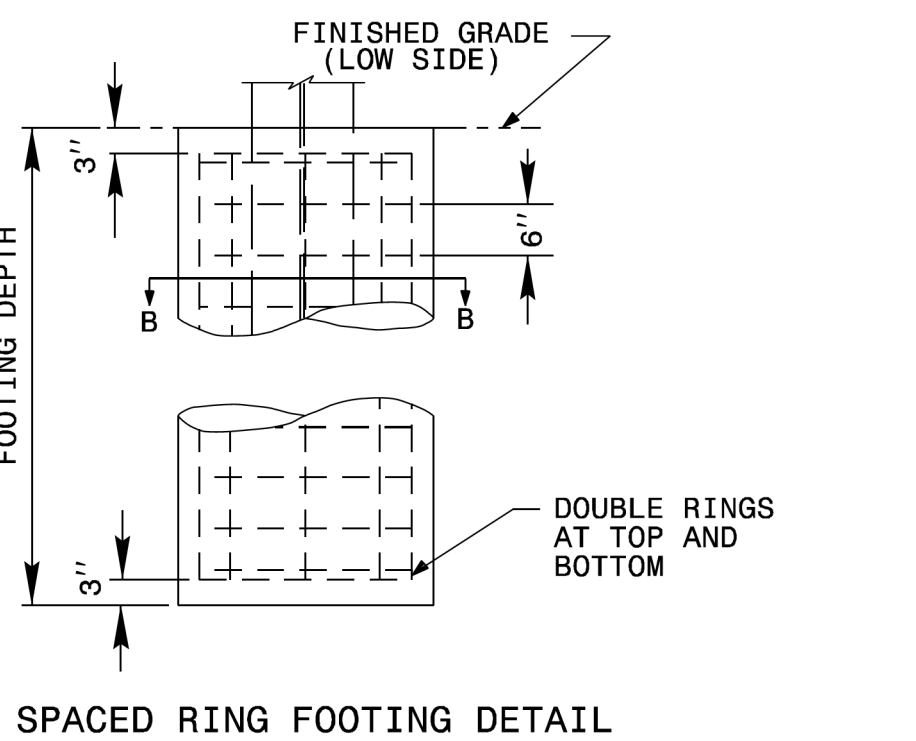
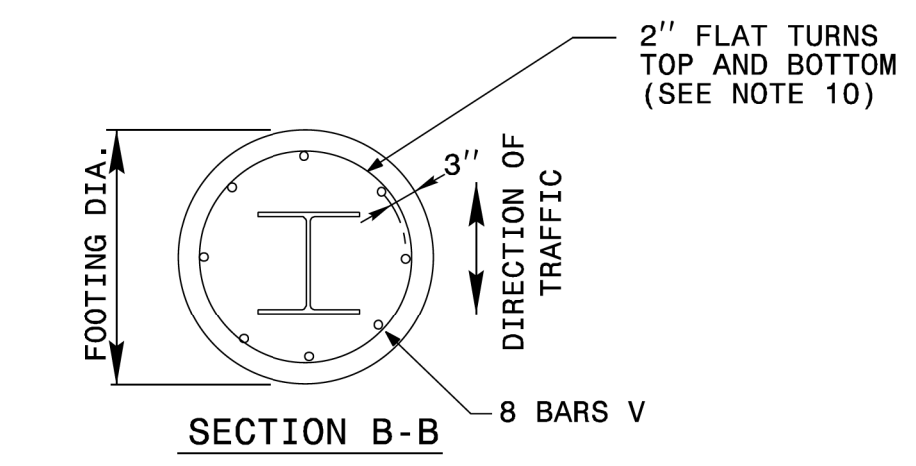
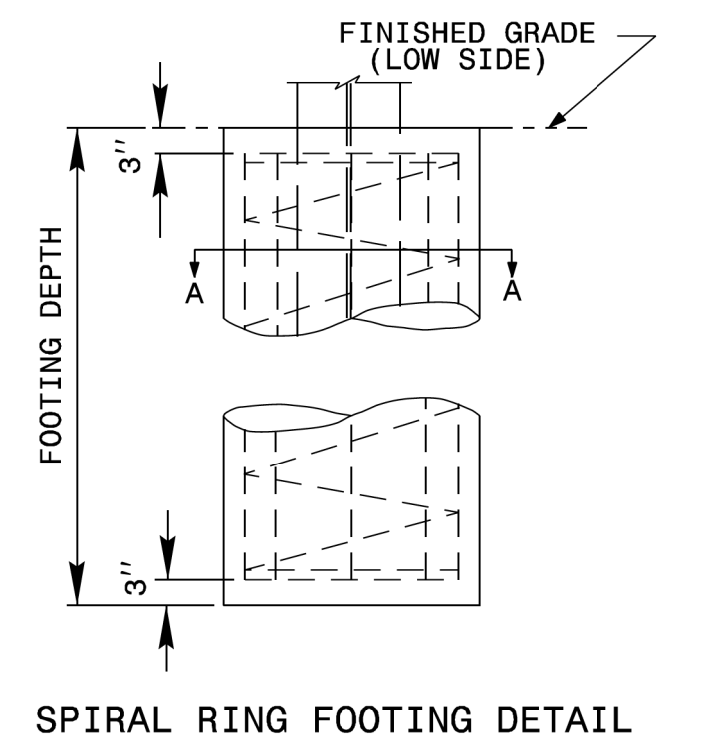
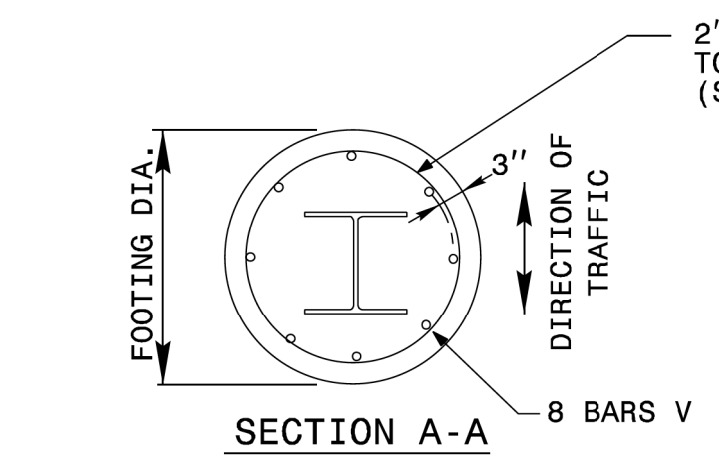
TIP NO. I-5972 SHEET NO. 610N-2C
 APPROVED: *Matthew V. Springer*
 DATE: 5/26/2020
 SEAL


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

ENGLISH DETAIL DRAWING FOR
GROUND MOUNTED SIGN SUPPORTS

SHEET 2 OF 3
903D10

BEAM SHAPE	SLIP BASE PLATE DATA									KEEPER PLATE DATA							HINGE CONNECTION DATA							BREAK AWAY SUPPORT WEIGHT CONSTANT LBS.		
	BOLT SIZE	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"	1/2"	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"	1/2"	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



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

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 RALEIGH, N.C.

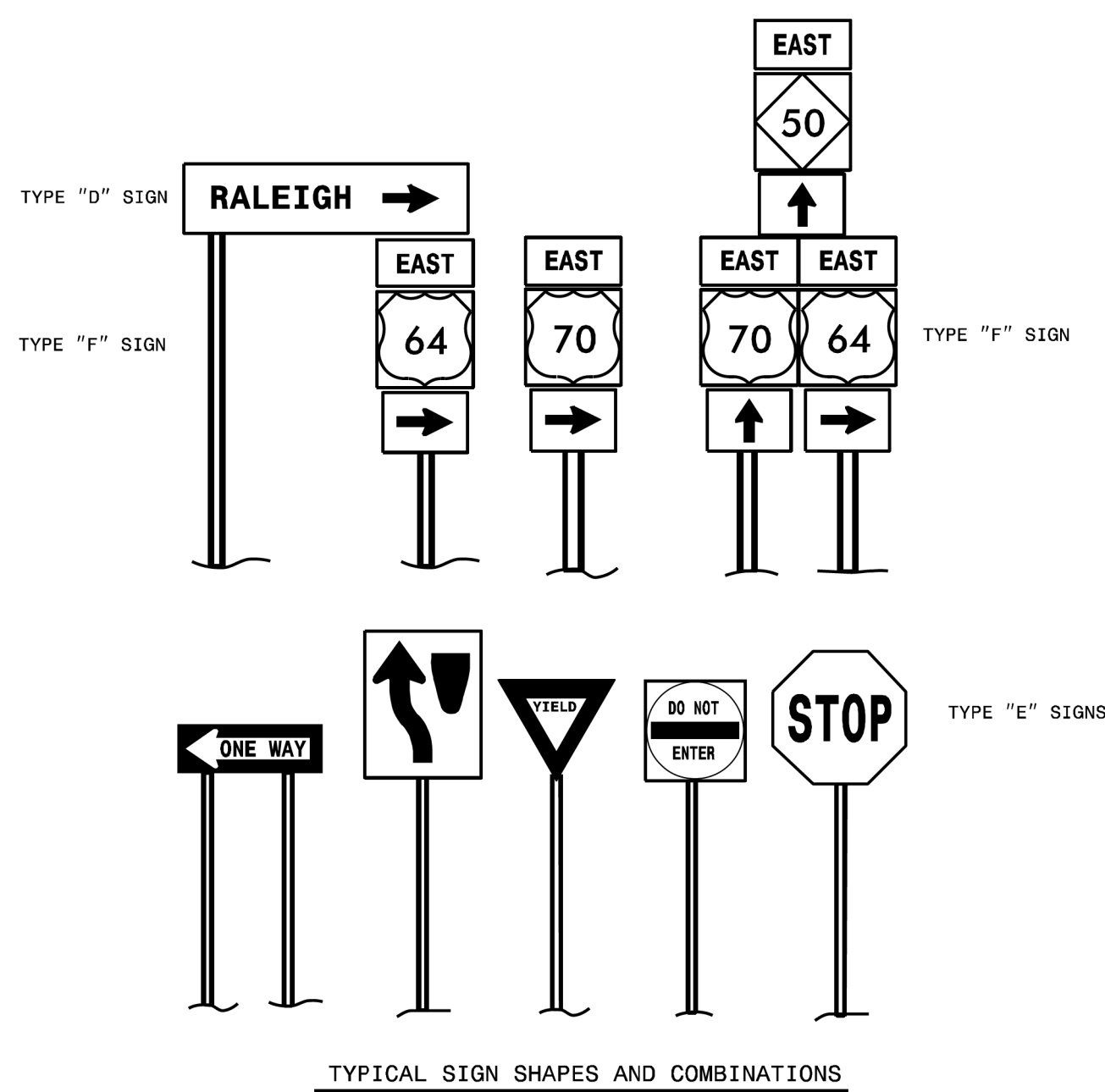
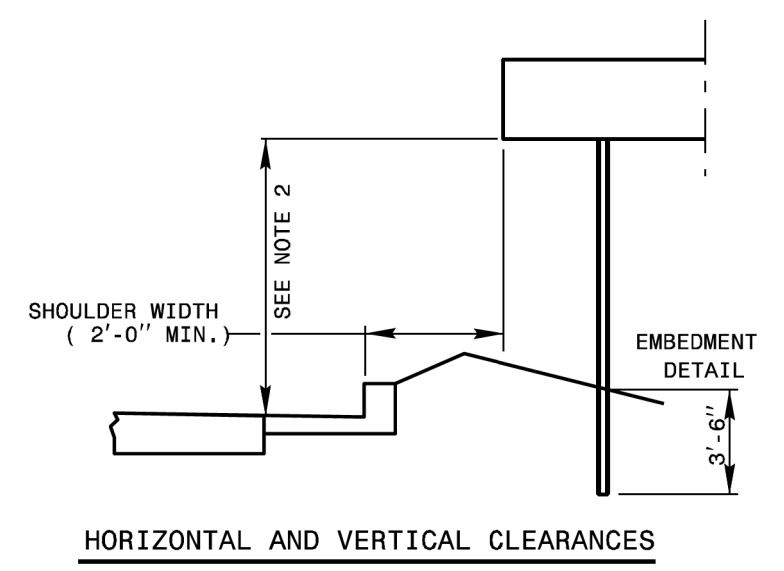
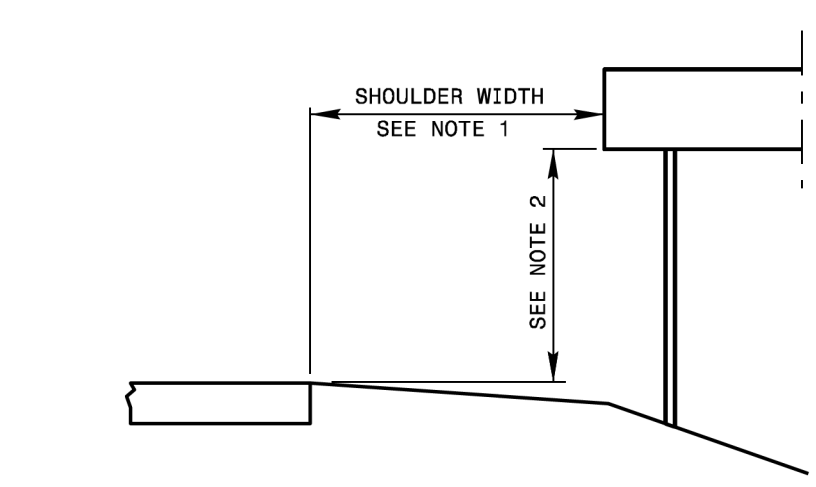
ENGLISH DETAIL DRAWING FOR
GROUND MOUNTED SIGN SUPPORTS

SHEET 2 OF 3
903D10

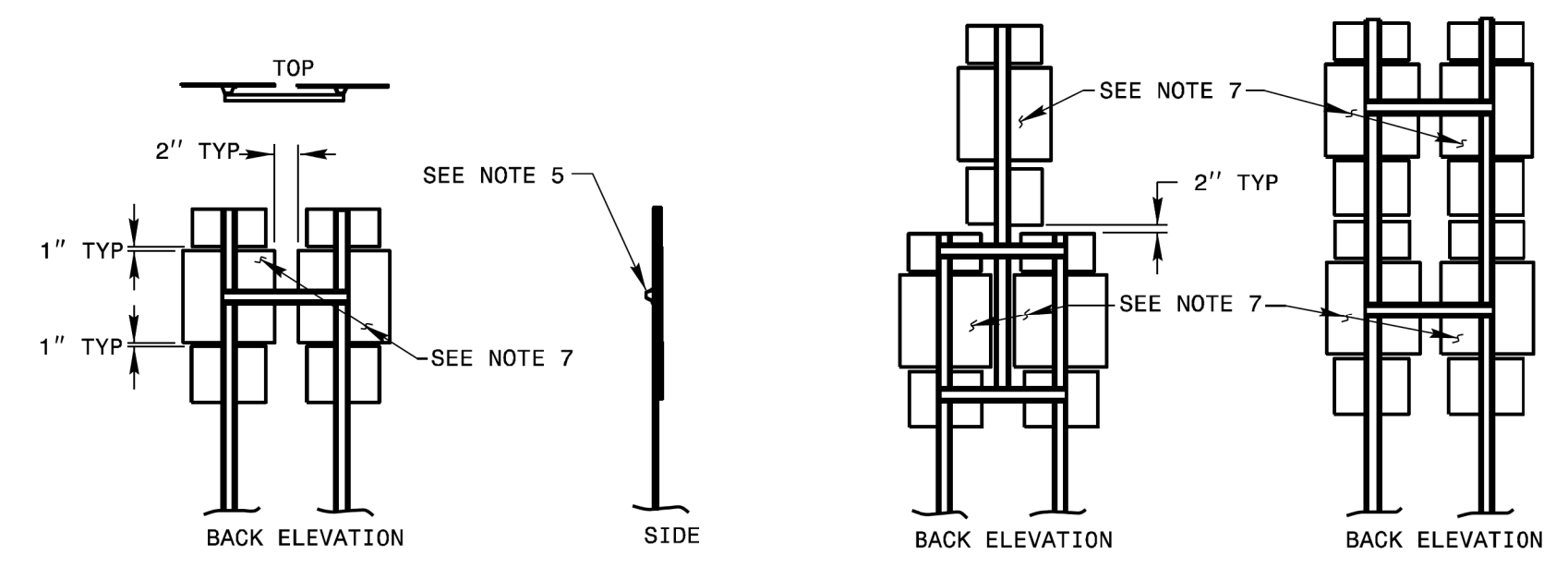
**REVISED SIGNING
 ROADWAY STANDARD DRAWING**

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

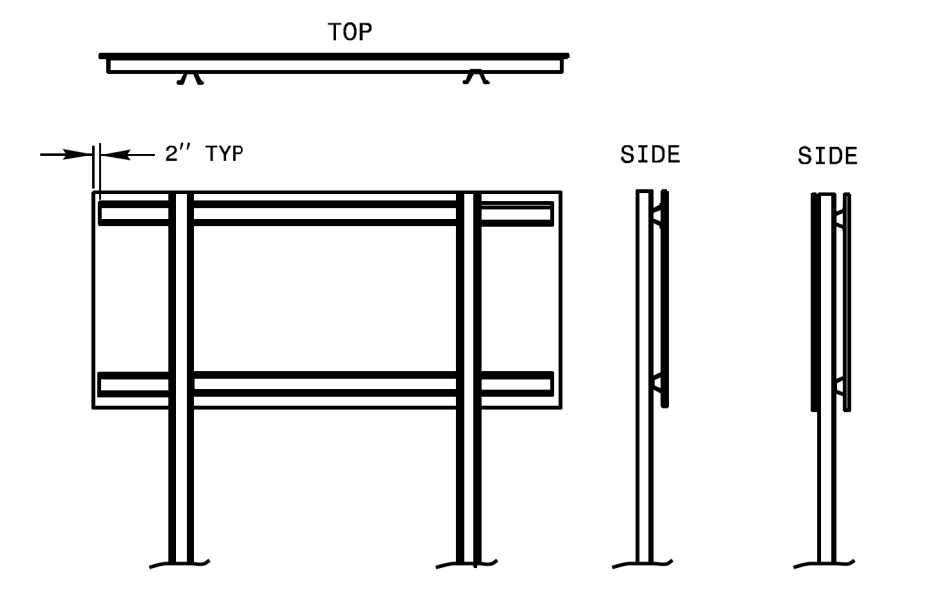
6-21
 ENGLISH DETAIL DRAWING FOR
 MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS
 ON 'U' CHANNEL POSTS
 SHEET 1 OF 2
 904D50



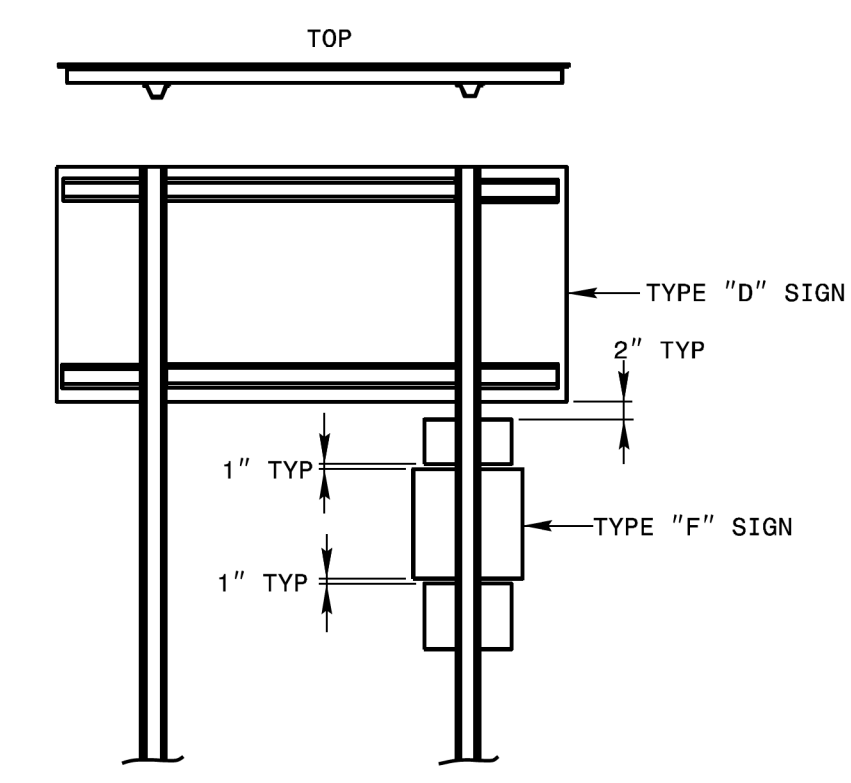
TYPICAL SIGN SHAPES AND COMBINATIONS



FRAMING AND CROSS-BRACING DETAILS
 TYPE "F" SIGNS



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

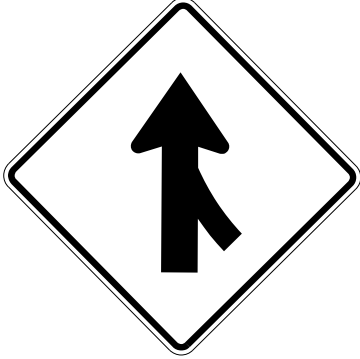
STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

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

6/18/2021 S:\S&D\UNStandards Group\Standards and Drawings\Drawings\2018 Standard Dwg\Division 9 Final\0904.50_sgn_sht01_uchannel post_6-21.dgn User:dstokes

PROJECT REFERENCE NO. I-5972	SHEET NO. SIGN-3
APPROVED: <i>David J. Sears</i> <small>089183P28E5741E 9/19/2023</small>	
DATE: 9/19/2023	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

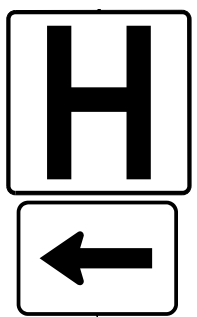
401 QUANTITY REQ'D 2



W4-1
48" X 48"

TWO "U" CHANNEL POSTS PER SIGN

402 QUANTITY REQ'D 1




D9-2
24" X 24"

M6-1
21" X 15"
COLOR : BLUE

ONE "U" CHANNEL POST


403 QUANTITY REQ'D 4



R5-1A
36" X 24"

ONE "U" CHANNEL POST PER SIGN


404 QUANTITY REQ'D 2



R6-1L
54" X 18"

MOUNT BACK TO BACK WITH
SIGN 409 IN TWO INSTALLATIONS


405 QUANTITY REQ'D 3



R5-1
36" X 36"

ONE "U" CHANNEL POST PER SIGN

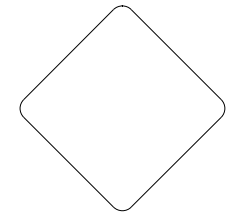
406 QUANTITY REQ'D 6



R4-7
24" X 30"

ONE "U" CHANNEL POST PER SIGN

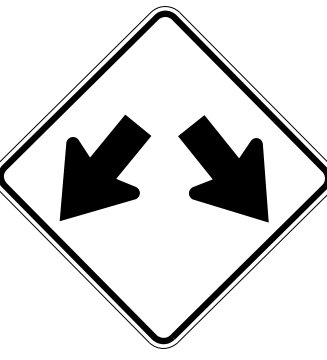
407 QUANTITY REQ'D 5



OM1-3
18" X 18"

MOUNT BELOW SIGGN 406
IN FIVE INSTALLATIONS


408 QUANTITY REQ'D 1



W12-1
36" X 36"

ONE "U" CHANNEL POST

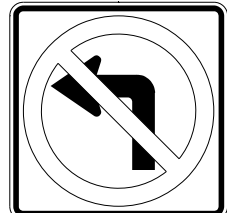
409 QUANTITY REQ'D 3



R6-1R
54" X 18"

TWO "U" CHANNEL POSTS PER SIGN


410 QUANTITY REQ'D 1



R3-2
24" X 24"

MOUNT BELOW SIGN 406
IN ONE INSTALLATION


411 QUANTITY REQ'D 4



R3-7R
36" X 36"

ONE "U" CHANNEL POST PER SIGN

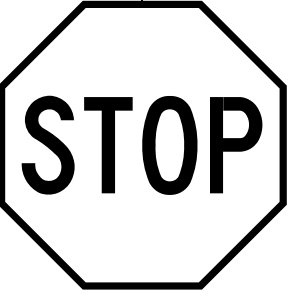
412 QUANTITY REQ'D 4



R2-1
30" X 36"

ONE "U" CHANNEL POST PER SIGN


413 QUANTITY REQ'D 2



R1-1
36" X 36"

ONE "U" CHANNEL POST PER SIGN

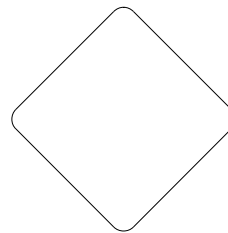
414 QUANTITY REQ'D 1



W14-1
30" X 30"

ONE "U" CHANNEL POST

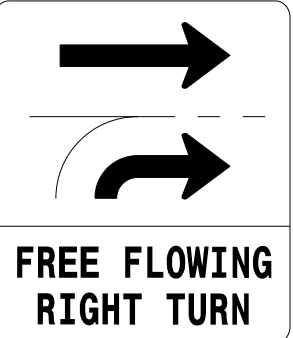
415 QUANTITY REQ'D 3



OM4-3
18" X 18"

ONE "U" CHANNEL POST PER SIGN


416 QUANTITY REQ'D 1




W26-S
48" X 54"

SEE SHEET SIGN-4E FOR SIGN DESIGN

501




M3-3
36" X 18"




M1-1
36" X 36"

ONE "U" CHANNEL POST


502




M3-4
24" X 12"




M3-2
24" X 12"




M4-3
24" X 12"




M4-3
24" X 12"




M1-4
24" X 24"



M1-4
24" X 24"




M6-1
21" X 15"




M6-1
21" X 15"

MOUNT BELOW SIGN 301


503



M3-2
24" X 12"




M4-3
24" X 12"




M1-4
24" X 24"

ONE "U" CHANNEL POST

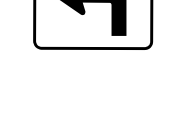
504



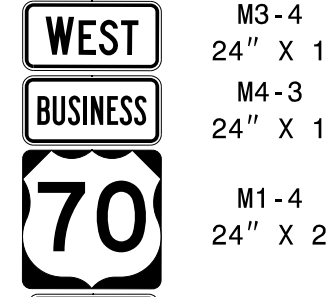
M3-3
24" X 12"




M1-1
24" X 24"




M5-1
21" X 15"



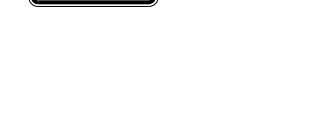
M3-4
24" X 12"



M4-3
24" X 12"




M1-4
24" X 24"




M6-3
21" X 15"

TWO "U" CHANNEL POSTS


505



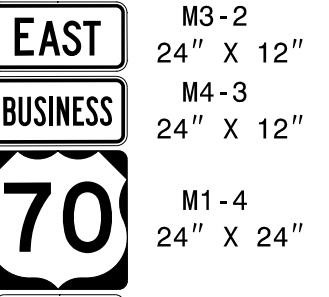
M3-1
24" X 12"



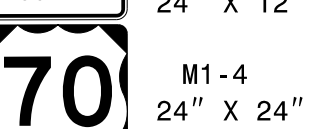
M1-1
24" X 24"




M5-1
21" X 15"




M3-2
24" X 12"



M4-3
24" X 12"




M1-4
24" X 24"




M6-3
21" X 15"

TWO "U" CHANNEL POSTS

506




M3-1
36" X 18"




M1-1
36" X 36"

ONE "U" CHANNEL POST

507 508



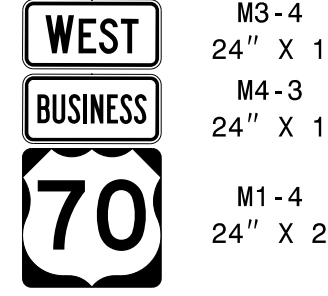
M2-1
21" X 15"




M1-1
24" X 24"

ONE "U" CHANNEL POST PER SIGN


509



M3-4
24" X 12"




M4-3
24" X 12"




M1-4
24" X 24"

ONE "U" CHANNEL POST


510




M3-3
24" X 12"




M1-1
24" X 24"




M6-3
21" X 15"



M3-1
24" X 12"




M1-1
24" X 24"



M5-1R
21" X 15"

TWO "U" CHANNEL POSTS

QUANTITY REQ'D 2




D10-2A
12" X 48"

TO BE INSTALLED
BACK TO BACK

ONE 3 LB. "U" CHANNEL POST

QUANTITY REQ'D 2

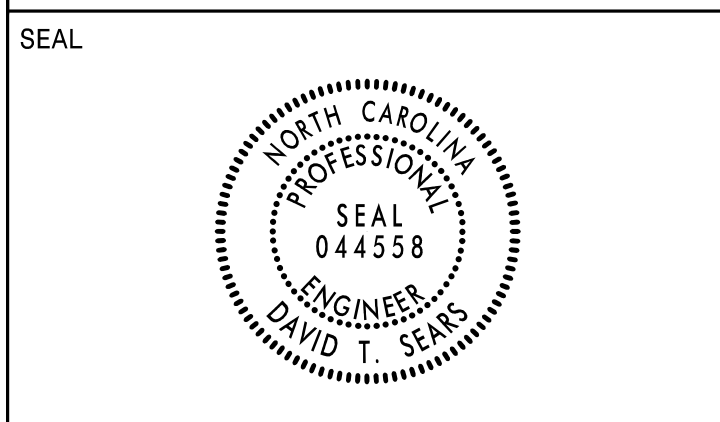


D10-2
12" X 36"

ONE 3 LB. "U" CHANNEL POST

**TYPE 'E' & 'F' SIGNS
& MILEMARKERS**

APPROVED: *David T. Sears*
 089183P28E5741E
 9/19/2023



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

SIGN NUMBER: 1
TYPE: A
QUANTITY: 1
SIGN WIDTH: 10'-6"
HEIGHT: 10'-0"
TOTAL AREA: 105.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADIUS: 12"
NO. Z BARS: 3
LENGTH: 118.0

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	25.3	59.9	36	36
ARROW	51	10.1	24	16.5

DESIGN BY: A. TUTT
PROJECT ID: I-5972
CHECKED BY: D. SEARS
LOCATION: -RPB- STA. 23+00
AUG 27, 2021
DIV: 4

USE NOTES: 1,2,3
 1. Legend and border (except those that are colored black) shall be direct applied Grade A sheeting.
 2. Background shall be Grade C reflective sheeting.
 3. Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.
 4. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter										Series/Size	Text Length
B	U	S	I	N	E	S	S			E 2000	57.5
14.6	8.1	8.1	8.1	3.5	8.6	7.1	7.6	6.5	53.9		
E	A	S	T							E 2000	38.1
73.3	9	1.1	11.3	9.2	7.5	14.6					
G	o	I	d	s	b	o	r	o		EM 2000	101.8
12.1	13.6	13.2	6.8	12.7	12.9	11.7	13.2	8.7	9.1		

FILENAME: I5972_SIGN_DESIGNS NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 2
TYPE: A
QUANTITY: 1
SIGN WIDTH: 11'-6"
HEIGHT: 10'-0"
TOTAL AREA: 115.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADIUS: 12"
NO. Z BARS: 3
LENGTH: 130.0

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	30.4	59.9	36	36
ARROW	57	10.1	24	16.5

DESIGN BY: A. TUTT
PROJECT ID: I-5972
CHECKED BY: D. SEARS
LOCATION: -RPB- STA. 23+00
AUG 27, 2021
DIV: 4

USE NOTES: 1,2,3
 1. Legend and border (except those that are colored black) shall be direct applied Grade A sheeting.
 2. Background shall be Grade C reflective sheeting.
 3. Shields: A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.
 4. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter										Series/Size	Text Length
B	U	S	I	N	E	S	S			E 2000	57.5
19.6	8.1	8.1	8.1	3.5	8.6	7.1	7.6	6.5	60.9		
W	E	S	T							E 2000	40
78.4	12.7	1.7	6.9	9.2	7.5	19.6					
S	m	i	t	h	f	i	e	l	d	EM 2000	110.6
13.7	14.9	20	6.7	11.2	12.8	9.7	6.8	12.9	6.8		

FILENAME: I5972_SIGN_DESIGNS NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 3
TYPE: A
QUANTITY: 1
SIGN WIDTH: 14'-0"
HEIGHT: 6'-0"
TOTAL AREA: 84.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADIUS: 9"
NO. Z BARS: 2
LENGTH: 160.0

BACKG COLOR: Green/Yellow
COPY COLOR: White/Black

SYMBOL	X	Y	WID	HT
ARROW	70.1	8	32	22

DESIGN BY: A. TUTT
PROJECT ID: I-5972
CHECKED BY: D. SEARS
LOCATION: -RPB- STA. 23+00
AUG 27, 2021
DIV: 4

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

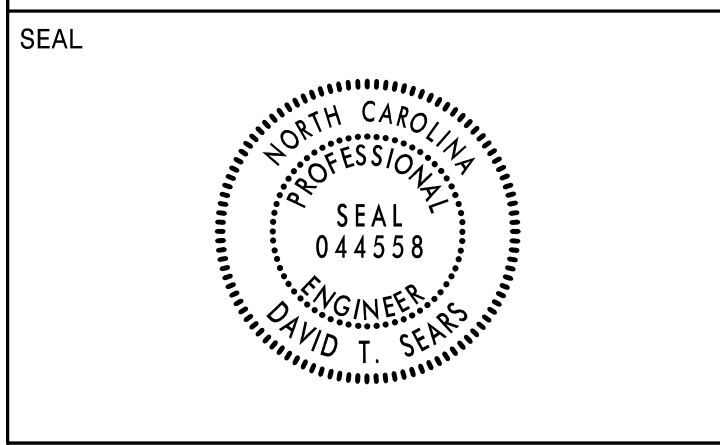
Letter spacings are to start of next letter										Series/Size	Text Length
O	u	t	i	e	r	D	r			E 2000	145.2
11.4	13.6	9.8	7.5	4.4	6.9	6.1	10	12.9	10		
R	I	G	H	T						EM 2000	42.4
17.7	10.2	4.4	10.5	9.9	7.4	107.9					
L	A	N	E							EM 2000	38.2
112.1	8	11.9	10.9	7.4	17.7						

FILENAME: I5972_SIGN_DESIGNS NORTH CAROLINA D.O.T. SIGN DETAIL

08/19/23
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APPROVED: *David J. Sears*
 089183P28E5741E
 DATE: 9/19/2023



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SIGN NUMBER: 101A, 102A, 112A BACKG COLOR: Green
 TYPE: B COPY COLOR: White
 QUANTITY: 3
 SIGN WIDTH: 9'-6"
 HEIGHT: 2'-6"
 TOTAL AREA: 23.8 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 3"
 NO. Z BARS: 2
 LENGTH: 106.0
 MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: A. TUTT CHECKED BY: D. SEARS May 24, 2021
 PROJECT ID: I-5972 OFFSITE, -L- STA. 33+39, 77+11 DIV: 4

USE NOTES: 1,2
 1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
 2. Background shall be Grade C reflective sheeting.
 3. 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
E 2000	21.7
X 2000	9.2
I 2000	11.1
T 2000	3.8
60.6	7.5
31.6	60.6
E 2000	9
5	5
65.9	14.2
12.2	21.7

FILENAME: I5972_SGN_DESIGNS NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 101B BACKG COLOR: Green
 TYPE: A COPY COLOR: White
 QUANTITY: 1
 SIGN WIDTH: 14'-0"
 HEIGHT: 14'-0"
 TOTAL AREA: 196.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 12"
 NO. Z BARS: 4
 LENGTH: 160.0
 MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: A. TUTT CHECKED BY: D. SEARS May 24, 2021
 PROJECT ID: I-5972 LOCATION: OFFSITE DIV: 4

USE NOTES: 1,2,3
 1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
 2. Background shall be Grade C reflective sheeting.
 3. 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
E 2000	40.9
B 2000	12.1
U 2000	12.1
S 2000	12.1
I 2000	5.3
N 2000	12.8
E 2000	10.7
S 2000	11.4
S 2000	9.7
40.9	40.9
86.3	40.9
EM 2000	17.6
S m i t h f i e l d	17.6
17.6	17.9
24	8
13.4	15.4
11.7	8.2
15.5	8.2
10.6	17.6
132.8	17.6
EM 2000	22.9
G o l d s b o r o	22.9
22.9	16.3
15.8	8.2
15.2	15.5
14.1	15.8
10.4	10.9
22.9	22.9
122.2	22.9
E 2000	38.2
1	14
M I L E S	38.2
38.2	4.5
7.5	22
15	12
4.4	9.2
8.9	8.1
38.2	38.2
91.6	38.2

FILENAME: I5972_SGN_DESIGNS NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 102B, 112B BACKG COLOR: Green
 TYPE: A COPY COLOR: White
 QUANTITY: 2
 SIGN WIDTH: 14'-0"
 HEIGHT: 15'-0"
 TOTAL AREA: 210.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 12"
 NO. Z BARS: 6
 LENGTH: 160.0
 MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: A. TUTT CHECKED BY: D. SEARS May 24, 2021
 PROJECT ID: I-5972 LOCATION: -L- STA. 33+39, 77+11 DIV: 4

USE NOTES: 1,2,3
 1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
 2. Background shall be Grade C reflective sheeting.
 3. 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
E 2000	40.9
B 2000	12.1
U 2000	12.1
S 2000	12.1
I 2000	5.3
N 2000	12.8
E 2000	10.7
S 2000	11.4
S 2000	9.7
40.9	40.9
86.3	40.9
EM 2000	17.6
S m i t h f i e l d	17.6
17.6	17.9
24	8
13.4	15.4
11.7	8.2
15.5	8.2
10.6	17.6
132.8	17.6
EM 2000	22.9
G o l d s b o r o	22.9
22.9	16.3
15.8	8.2
15.2	15.5
14.1	15.8
10.4	10.9
22.9	22.9
122.2	22.9

FILENAME: I5972_SGN_DESIGNS NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 103 BACKG COLOR: Blue/Green
 TYPE: A COPY COLOR: White/White
 QUANTITY: 1
 SIGN WIDTH: 6'-0"
 HEIGHT: 6'-0"
 TOTAL AREA: 36.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1"
 RADII: 9"
 NO. Z BARS: 2
 LENGTH: 64.0
 MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: A. TUTT CHECKED BY: D. SEARS Aug 25, 2021
 PROJECT ID: I-5972 LOCATION: -RPD- STA. 20+75 DIV: 4

USE NOTES: 1,2
 1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
 2. Background shall be Grade C reflective sheeting.
 3. 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

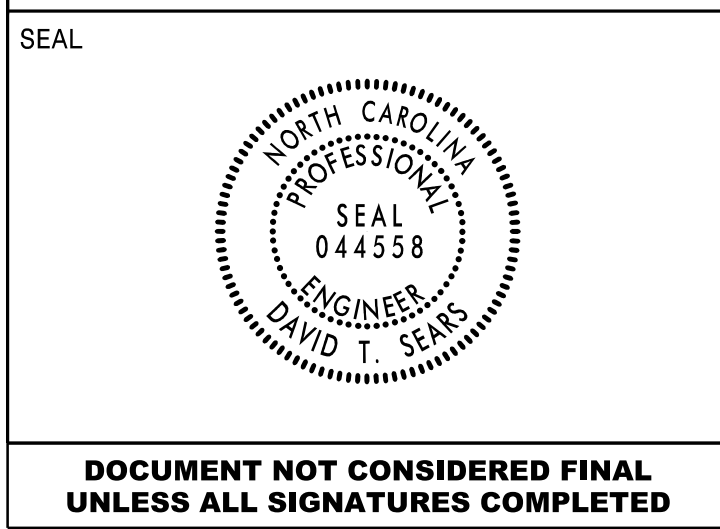
Series/Size	Text Length
D 2000	19
T 2000	4.9
O 2000	6.2
U 2000	6.2
R 2000	5.6
I 2000	2.5
S 2000	4.8
T 2000	3.7
34	19
D 2000	10.6
I N F O R M A T I O N	10.6
2.4	5.5
4.5	5.6
5.1	5.6
5.5	4.6
2.3	5.6
4.1	10.7
50.7	10.7
D 2000	8.2
C H A M B E R O F	8.2
6.1	5.4
6.5	6.8
5.6	5.2
4.1	6
6.2	3.7
8.2	8.2
55.7	8.2
D 2000	15
C O M M E R C E	15
5.3	5.6
6.1	6.1
4.7	5
5.4	3.7
15	15
41.9	15

FILENAME: I5972_SGN_DESIGNS NORTH CAROLINA D.O.T. SIGN DETAIL

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APPROVED: *David T. Sears*
089183P28E5741E
 DATE: 9/19/2023



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SIGN NUMBER: 104 **BACKG COLOR: Brown/Green** **DESIGN BY: A. TUTT** **CHECKED BY: D. SEARS** **Aug 25, 2021**
TYPE: A **COPY COLOR: White/White** **PROJECT ID: I-5972** **LOCATION: -RPD- STA. 22+25** **DIV: 4**

QUANTITY: 1

SYMBOL	X	Y	WID	HT
AR_Type D	42	8	8	12

SIGN WIDTH: 8'-0"
HEIGHT: 6'-0"
TOTAL AREA: 48.0 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 1"
RADII: 9"

NO. Z BARS: 2 **MAT'L: 0.125" (3.2 mm) ALUMINUM**
LENGTH: 88.0

USE NOTES: 1,2

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text	Length
D 2000	A V A G A R D N E R	60.8
	M U S E U M	31.3
D 2000	J O H N S T O N	43.9
	C O M M U N I T Y C O L L E G E	85.1

FILENAME: I5972_SGN_DESIGNS **NORTH CAROLINA D.O.T. SIGN DETAIL**

SIGN NUMBER: 105 **BACKG COLOR: Green** **DESIGN BY: D. SEARS** **CHECKED BY: B. HOLDEN** **Jun 02, 2021**
TYPE: A **COPY COLOR: White** **PROJECT ID: I-5972** **LOCATION: -Y1- STA. 30+75** **DIV: 4**

QUANTITY: 1

SYMBOL	X	Y	WID	HT
M1_1	33.9	74.5	24	24
AR_Type D	11.9	69	14	21
M1_1	9.4	23.5	24	24
AR_Type D	77.8	21.5	14	21

SIGN WIDTH: 9'-0"
HEIGHT: 9'-0"
TOTAL AREA: 81.0 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 1.5"
RADII: 12"

NO. Z BARS: 3 **MAT'L: 0.125" (3.2 mm) ALUMINUM**
LENGTH: 100.0

USE NOTES: 1,2,3

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text	Length
E 2000	N O R T H	30.2
	W I L S O N	39.4
EM 2000	S O U T H	30.2
	B E N S O N	43.6

FILENAME: I5972_SGN_DESIGNS **NORTH CAROLINA D.O.T. SIGN DETAIL**

SIGN NUMBER: 106 **BACKG COLOR: Green** **DESIGN BY: D. SEARS** **CHECKED BY: B. HOLDEN** **Jun 02, 2021**
TYPE: A **COPY COLOR: White** **PROJECT ID: I-5972** **LOCATION: -Y1- STA. 32+50** **DIV: 4**

QUANTITY: 1

SYMBOL	X	Y	WID	HT
M1_1	7.9	44	24	24
AR_Type D	28.5	10	14	21

SIGN WIDTH: 6'-6"
HEIGHT: 6'-6"
TOTAL AREA: 42.3 Sq.Ft.

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

NO. Z BARS: 2 **MAT'L: 0.125" (3.2 mm) ALUMINUM**
LENGTH: 70.0

USE NOTES: 1,2,3

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text	Length
E 2000	S O U T H	30.2
	B E N S O N	43.6

FILENAME: I5972_SGN_DESIGNS **NORTH CAROLINA D.O.T. SIGN DETAIL**

SIGN NUMBER: 107 **BACKG COLOR: Green** **DESIGN BY: D. SEARS** **CHECKED BY: B. HOLDEN** **Jun 02, 2021**
TYPE: A **COPY COLOR: White** **PROJECT ID: I-5972** **LOCATION: -Y1- STA. 42+30** **DIV: 4**

QUANTITY: 1

SYMBOL	X	Y	WID	HT
M1_1	7.9	44	24	24
AR_Type D	28.5	10	14	21

SIGN WIDTH: 6'-6"
HEIGHT: 6'-6"
TOTAL AREA: 42.3 Sq.Ft.

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

NO. Z BARS: 2 **MAT'L: 0.125" (3.2 mm) ALUMINUM**
LENGTH: 70.0

USE NOTES: 1,2,3

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text	Length
E 2000	N O R T H	30.2
	W I L S O N	39.4

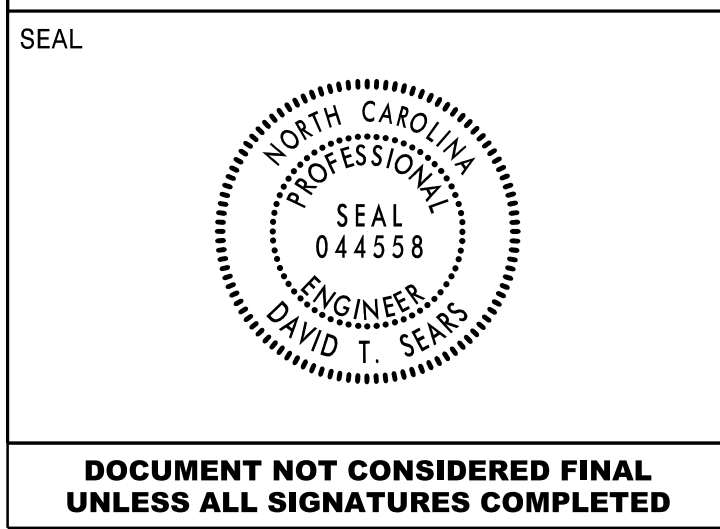
FILENAME: I5972_SGN_DESIGNS **NORTH CAROLINA D.O.T. SIGN DETAIL**

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 DATE: 9/19/2023



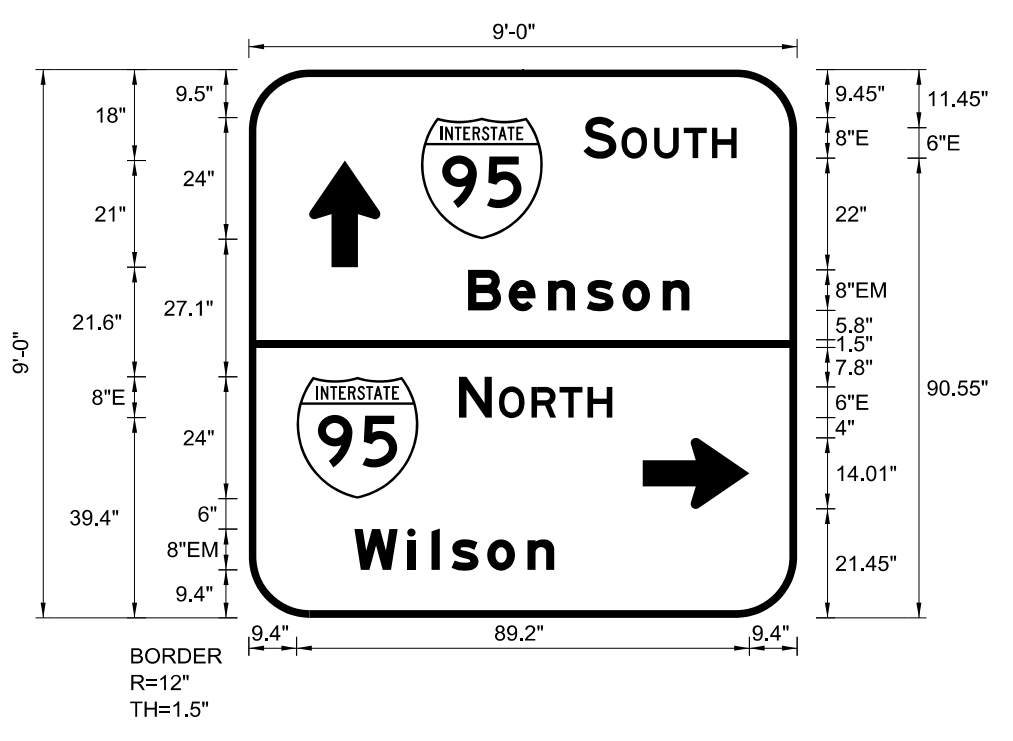
SIGN NUMBER: 108
 TYPE: A
 QUANTITY: 1
 SIGN WIDTH: 9'-0"
 HEIGHT: 9'-0"
 TOTAL AREA: 81.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1.5"
 RADII: 12"
 NO. Z BARS: 3
 LENGTH: 100.0

BACKG COLOR: Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_1	33.9	74.5	24	24
AR_Type D	11.9	69	14	21
M1_1	9.4	23.4	24	24
AR_Type D	77.6	21.4	14	21

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: D. SEARS
 CHECKED BY: B. HOLDEN
 Jun 02, 2021
 PROJECT ID: I-5972
 LOCATION: -Y1- STA. 44+00
 DIV: 4



- 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
S	E 2000	30.2
O	E 2000	30.2
U	EM 2000	43.6
T	E 2000	30.2
H	EM 2000	39.4
B	E 2000	30.2
e	EM 2000	39.4
n	E 2000	30.2
s	EM 2000	39.4
o	E 2000	30.2
n	EM 2000	39.4
N	E 2000	30.2
O	E 2000	30.2
R	E 2000	30.2
T	E 2000	30.2
H	E 2000	30.2
W	E 2000	30.2
i	EM 2000	39.4
l	E 2000	30.2
s	EM 2000	39.4
o	E 2000	30.2
n	EM 2000	39.4

FILENAME: I5972_SGN_DESIGNS NORTH CAROLINA D.O.T. SIGN DETAIL

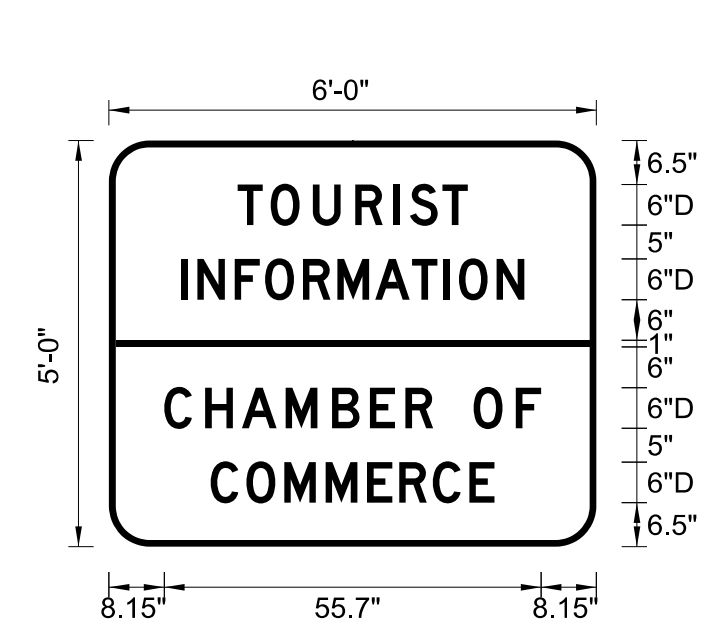
SIGN NUMBER: 109A
 TYPE: A
 QUANTITY: 1
 SIGN WIDTH: 6'-0"
 HEIGHT: 5'-0"
 TOTAL AREA: 30.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1"
 RADII: 6"
 NO. Z BARS: 2
 LENGTH: 64.0

BACKG COLOR: Blue/Green
 COPY COLOR: White/White

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: A. TUTT
 CHECKED BY: D. SEARS
 Aug 25, 2021
 PROJECT ID: I-5972
 LOCATION: -RPB- STA. 17+00
 DIV: 4



- 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.

LETTER POSITIONS

Letter spacings are to start of next letter

Letter	Series/Size	Text Length
T	D 2000	34
O	D 2000	34
U	D 2000	50.7
R	D 2000	55.7
I	D 2000	41.9
S	D 2000	41.9
T	D 2000	41.9
I	D 2000	41.9
N	D 2000	41.9
F	D 2000	41.9
O	D 2000	41.9
R	D 2000	41.9
M	D 2000	41.9
A	D 2000	41.9
T	D 2000	41.9
I	D 2000	41.9
O	D 2000	41.9
N	D 2000	41.9
C	D 2000	41.9
H	D 2000	41.9
A	D 2000	41.9
M	D 2000	41.9
B	D 2000	41.9
E	D 2000	41.9
R	D 2000	41.9
O	D 2000	41.9
F	D 2000	41.9
C	D 2000	41.9
O	D 2000	41.9
M	D 2000	41.9
M	D 2000	41.9
E	D 2000	41.9
R	D 2000	41.9
C	D 2000	41.9
E	D 2000	41.9

FILENAME: I5972_SGN_DESIGNS NORTH CAROLINA D.O.T. SIGN DETAIL

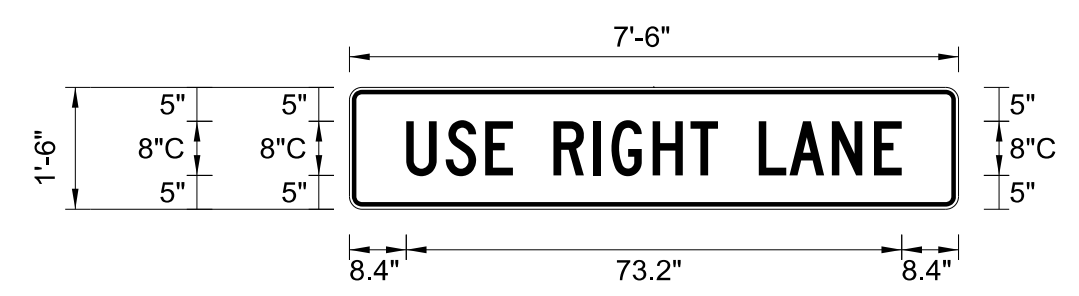
SIGN NUMBER: 109B
 TYPE: B
 QUANTITY: 1
 SIGN WIDTH: 7'-6"
 HEIGHT: 1'-6"
 TOTAL AREA: 11.3 Sq.Ft.
 BORDER TYPE: RECESS
 RECESS: 0.38"
 WIDTH: 0.68"
 RADII: 1.5"
 NO. Z BARS: 2
 LENGTH: 82.0

BACKG COLOR: Yellow
 COPY COLOR: Black

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: A. TUTT
 CHECKED BY: D. SEARS
 Aug 25, 2021
 PROJECT ID: I-5972
 LOCATION: -RPB- STA. 17+00
 DIV: 4



- 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.

LETTER POSITIONS

Letter spacings are to start of next letter

Letter	Series/Size	Text Length
U	C 2000	73.2
S	C 2000	73.2
E	C 2000	73.2
R	C 2000	73.2
I	C 2000	73.2
G	C 2000	73.2
H	C 2000	73.2
T	C 2000	73.2
L	C 2000	73.2
A	C 2000	73.2
N	C 2000	73.2
E	C 2000	73.2

FILENAME: I5972_SGN_DESIGNS NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 110A
 TYPE: A
 QUANTITY: 1
 SIGN WIDTH: 8'-0"
 HEIGHT: 6'-6"
 TOTAL AREA: 52.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1"
 RADII: 9"
 NO. Z BARS: 2
 LENGTH: 88.0

BACKG COLOR: Brown/Green/Blue
 COPY COLOR: White/White/White

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: A. TUTT
 CHECKED BY: D. SEARS
 Sep 30, 2021
 PROJECT ID: I-5972
 LOCATION: -RPB- STA 15+50
 DIV: 4



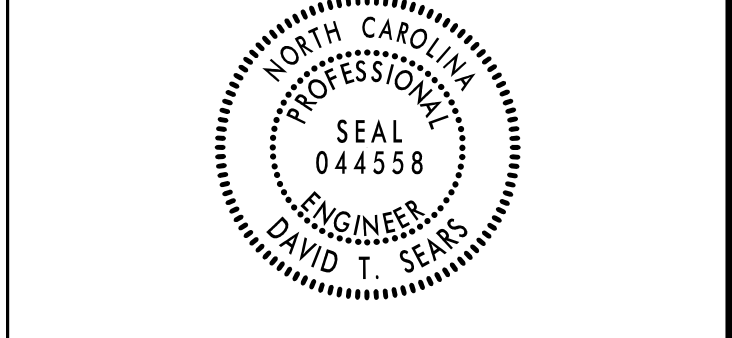
- USE NOTES: 1,2
- Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
 - Background shall be Grade C reflective sheeting.
 - Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

LETTER POSITIONS

Letter spacings are to start of next letter

Letter	Series/Size	Text Length
A	D 2000	60.8
V	D 2000	60.8
A	D 2000	60.8
G	D 2000	60.8
A	D 2000	60.8
R	D 2000	60.8
D	D 2000	60.8
N	D 2000	60.8
E	D 2000	60.8
R	D 2000	60.8
M	D 2000	31.3
U	D 2000	31.3
S	D 2000	31.3
E	D 2000	31.3
U	D 2000	31.3
M	D 2000	31.3
J	D 2000	43.9
O	D 2000	43.9
H	D 2000	43.9
N	D 2000	43.9
S	D 2000	43.9
T	D 2000	43.9
O	D 2000	43.9
N	D 2000	43.9
C	D 2000	85.1
O	D 2000	85.1
M	D 2000	85.1
M	D 2000	85.1
U	D 2000	85.1
N	D 2000	85.1
I	D 2000	85.1
T	D 2000	85.1
Y	D 2000	85.1
C	D 2000	85.1
O	D 2000	85.1
L	D 2000	85.1
L	D 2000	85.1
E	D 2000	85.1
G	D 2000	85.1
E	D 2000	85.1
H	D 2000	39.5
O	D 2000	39.5
S	D 2000	39.5
P	D 2000	39.5
I	D 2000	39.5
T	D 2000	39.5
A	D 2000	39.5
L	D 2000	39.5

FILENAME: I5972_SGN_DESIGNS NORTH CAROLINA D.O.T. SIGN DETAIL



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

<p>SIGN NUMBER: 110B TYPE: B QUANTITY: 1</p> <p>SIGN WIDTH: 8'-0" HEIGHT: 1'-6" TOTAL AREA: 12.0 Sq.Ft.</p> <p>BORDER TYPE: RECESS RECESS: 0.38" WIDTH: 0.68" RADIUS: 1.5"</p> <p>NO. Z BARS: 2 LENGTH: 88.0</p>	<p>BACKG COLOR: Yellow COPY COLOR: Black</p> <table border="1"> <tr><th>SYMBOL</th><th>X</th><th>Y</th><th>WID</th><th>HT</th></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> <p>MAT'L: 0.125" (3.2 mm) ALUMINUM</p>	SYMBOL	X	Y	WID	HT																																				<p>DESIGN BY: A. TUTT PROJECT ID: I-5972</p> <p>CHECKED BY: D. SEARS LOCATION: -RPB- STA. 15+50</p> <p>Aug 25, 2021 DIV: 4</p>
SYMBOL	X	Y	WID	HT																																						

USE NOTES: 1,2

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size		
U	S	E	C	E	N	T	E	R	L	A	N	E			Text Length		
7.4	5.8	5.8	4.1	6	6.1	5.4	5.6	5.2	5.4	4.5	6	4.6	6.2	6.2	4.1	7.4	C 2000 81.1

FILENAME: I5972_SGN_DESIGNS NORTH CAROLINA D.O.T. SIGN DETAIL

<p>SIGN NUMBER: 111 TYPE: B QUANTITY: 1</p> <p>SIGN WIDTH: 8'-6" HEIGHT: 3'-0" TOTAL AREA: 25.5 Sq.Ft.</p> <p>BORDER TYPE: FLUSH RECESS: 0" WIDTH: 1.5" RADIUS: 3"</p> <p>NO. Z BARS: LENGTH:</p>	<p>BACKG COLOR: Green COPY COLOR: White</p> <table border="1"> <tr><th>SYMBOL</th><th>X</th><th>Y</th><th>WID</th><th>HT</th></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> <p>MAT'L: 0.125" (3.2 mm) ALUMINUM</p>	SYMBOL	X	Y	WID	HT																																				<p>DESIGN BY: A. TUTT PROJECT ID: I-5972</p> <p>CHECKED BY: D. SEARS LOCATION: -L- STA. 73+00</p> <p>Jun 01, 2021 DIV: 4</p>
SYMBOL	X	Y	WID	HT																																						

USE NOTES: 1,2

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size
D	i	c	k	F	l	e	m	i	n	g					Text Length
9.1	8.9	4.1	7.8	5.3	8	8.1	4.1	7.8	12	4.8	7.8	5.3	9.1		EM 2000 83.8
															EM 2000 51.4

FILENAME: I5972_SGN_DESIGNS NORTH CAROLINA D.O.T. SIGN DETAIL

<p>SIGN NUMBER: 113 TYPE: B QUANTITY: 1</p> <p>SIGN WIDTH: 5'-6" HEIGHT: 5'-0" TOTAL AREA: 27.5 Sq.Ft.</p> <p>BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.75" RADIUS: 6"</p> <p>NO. Z BARS: 2 LENGTH: 58.0</p>	<p>BACKG COLOR: Green/Green/Blue COPY COLOR: White/White/White</p> <table border="1"> <tr><th>SYMBOL</th><th>X</th><th>Y</th><th>WID</th><th>HT</th></tr> <tr><td>ARUP</td><td>28.5</td><td>3.3</td><td>6</td><td>9</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> <p>MAT'L: 0.125" (3.2 mm) ALUMINUM</p>	SYMBOL	X	Y	WID	HT	ARUP	28.5	3.3	6	9																															<p>DESIGN BY: A. TUTT PROJECT ID: I-5972</p> <p>CHECKED BY: D. SEARS LOCATION: -Y1- STA. 25+00</p> <p>Jun 01, 2021 DIV: 4</p>
SYMBOL	X	Y	WID	HT																																						
ARUP	28.5	3.3	6	9																																						

USE NOTES: 1,2

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size	
S	H	O	P	P	I	N	G	C	E	N	T	E	R		Text Length	
7.1	3.5	3.7	3.9	3.4	3.4	2.1	3.7	8.6	3.7	3.2	3.4	3.1	3.2	2.6	7.1	B 2000 51.7
																C 2000 44.3
																C 2000 35.7
																C 2000 46.6

FILENAME: I5972_SGN_DESIGNS NORTH CAROLINA D.O.T. SIGN DETAIL

<p>SIGN NUMBER: 114 TYPE: A QUANTITY: 1</p> <p>SIGN WIDTH: 11'-0" HEIGHT: 5'-6" TOTAL AREA: 60.5 Sq.Ft.</p> <p>BORDER TYPE: FLUSH RECESS: 0" WIDTH: 1.5" RADIUS: 9"</p> <p>NO. Z BARS: 2 LENGTH: 124.0</p>	<p>BACKG COLOR: Green COPY COLOR: White</p> <table border="1"> <tr><th>SYMBOL</th><th>X</th><th>Y</th><th>WID</th><th>HT</th></tr> <tr><td>M1_1</td><td>51.8</td><td>33.7</td><td>24</td><td>24</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> <p>MAT'L: 0.125" (3.2 mm) ALUMINUM</p>	SYMBOL	X	Y	WID	HT	M1_1	51.8	33.7	24	24																															<p>DESIGN BY: D. SEARS PROJECT ID: I-5972</p> <p>CHECKED BY: B. HOLDEN LOCATION: -Y1- STA. 25+70</p> <p>Jun 02, 2021 DIV: 4</p>
SYMBOL	X	Y	WID	HT																																						
M1_1	51.8	33.7	24	24																																						

USE NOTES: 1,2,3

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

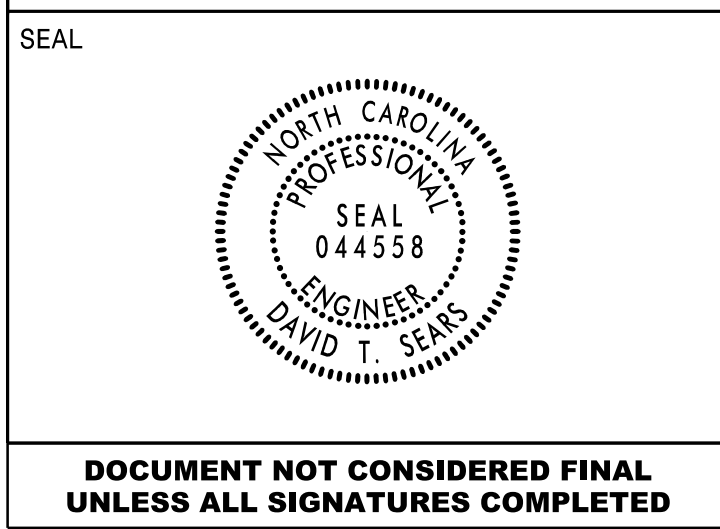
Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size
N	O	R	T	H											Text Length
13.8	6.5	1.4	6.4	5.5	5.5	4.9	88.2								E 2000 30.2
															E 2000 30.2
															EM 2000 39.4
															EM 2000 43.6
															E 2000 48.9
															E 2000 53.3

FILENAME: I5972_SGN_DESIGNS NORTH CAROLINA D.O.T. SIGN DETAIL

APPROVED: *David T. Sears*
 089183P28E5741E
 9/19/2023
 DATE:



DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

SIGN NUMBER: 201,202 **BACKG COLOR:** Green
TYPE: A **COPY COLOR:** White
QUANTITY: 2
SIGN WIDTH: 6'-6"
HEIGHT: 5'-0"
TOTAL AREA: 32.5 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 1.5"
RADII: 6"
NO. Z BARS: 2
LENGTH: 70.0
MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: A. TUTT **CHECKED BY:** D. SEARS **Jun 02, 2021**
PROJECT ID: I-5972 **LOCATION:** -L- STA. 44+84, 65+84 **DIV:** 4

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

	E	X	I	T																	Series/Size Text Length
	16.8	12.8	15.8	6.7	9	16.8															E 2000
		9	5																		E 2000
	8.8	17.1	14.6	37.5																	E 2000

Spacing Factor is 1 unless specified otherwise
 Spacing Factor is 2.25 for "EXIT"

FILENAME: I5972_SGN_DESIGNS NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 301 **BACKG COLOR:** Green
TYPE: D **COPY COLOR:** White
QUANTITY: 1
SIGN WIDTH: 5'-6"
HEIGHT: 2'-6"
TOTAL AREA: 13.8 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.75"
RADII: 3"
NO. Z BARS: 1
LENGTH: 70.0
MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: A. TUTT **CHECKED BY:** D. SEARS **Aug 26, 2021**
PROJECT ID: I-5972 **LOCATION:** -RPD- STA. 29+55 **DIV:** 4

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.

LETTER POSITIONS

Letter spacings are to start of next letter

	S	m	i	t	h	f	i	e	i	d											Series/Size Text Length
	22.8	5	7.1	1.6	3.1	4.3	2.9	1.9	4.4	1.9	3.6	7.6									D 2000
		8	5	4.6	1.9	4.4	3.6	4.3	4.6	2.8	3.7	23									D 2000

Spacing Factor is 1 unless specified otherwise

FILENAME: I5972_SGN_DESIGNS NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 302 **BACKG COLOR:** Green
TYPE: D **COPY COLOR:** White
QUANTITY: 1
SIGN WIDTH: 3'-6"
HEIGHT: 1'-6"
TOTAL AREA: 5.3 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.75"
RADII: 3"
NO. Z BARS: 1
LENGTH: 70.0
MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: A. TUTT **CHECKED BY:** D. SEARS **May 24, 2021**
PROJECT ID: I-5972 **LOCATION:** -Y1- STA. 52+00 **DIV:** 4

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.

LETTER POSITIONS

Letter spacings are to start of next letter

	S	M	I	T	H	F	I	E	L	D											Series/Size Text Length
	5.4	3.7	4.4	1.4	3.3	3.9	3.3	1.8	3.4	3.3	2.8	5.4									C 2000
		9.1	3	1.1	2.3	2.6	4	2.6	1.4	3.5	1.1	2	9.1								C 2000

Spacing Factor is 1 unless specified otherwise

FILENAME: I5972_SGN_DESIGNS NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: SP03273 **BACKG COLOR:** Yellow
TYPE: E **COPY COLOR:** Black
QUANTITY: 1
SIGN WIDTH: 4'-0"
HEIGHT: 4'-6"
TOTAL AREA: 18.0 Sq.Ft.
BORDER TYPE: RECESS
RECESS: 1.25"
WIDTH: 1.25"
RADII: 3"
NO. Z BARS: 1
LENGTH: 70.0
MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: CBB **CHECKED BY:** S B KUNZ
PROJECT ID: SP03273 **DATE:** Nov 03, 2003

USE NOTES: 2 & 4

- Legend and border shall be direct applied Type III reflective sheeting.
- Legend, symbols, and border shall be direct applied black non-reflective sheeting.
- Shields shall be Type III reflective sheeting on 0.032" (0.8mm) aluminum and demountable.
- Background shall be Type IX fluorescent yellow reflective sheeting.
- Background shall be Type I reflective sheeting.
- Center arrow shall be vertically on sign.
- Bottom panel shall be yellow Type III sheeting. Legend shall be direct applied black non-reflective sheeting.

MOUNT ON TWO "U" POSTS OR TWO 4" X 4" WOOD POSTS

LETTER POSITIONS

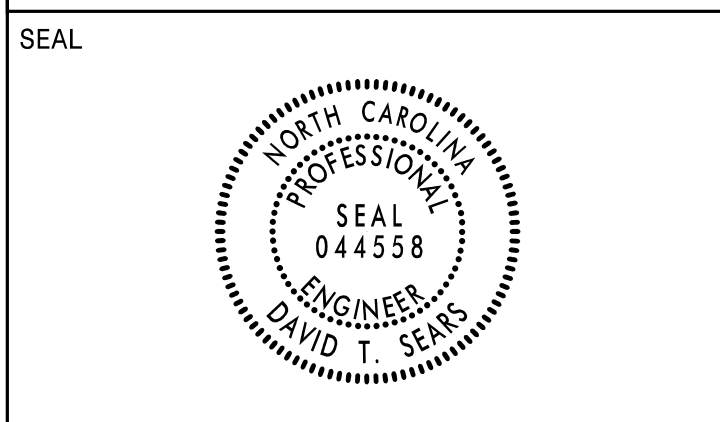
Letter spacings are to start of next letter

	F	R	E	E	F	L	O	W	I	N	G										Series/Size Text Length
	5	3.1	3.5	3.1	2.5	3.8	3.1	3.1	3.5	4.4	1.8	3.5	2.7	5							C6
		8.5	3.5	1.5	3.5	3.4	2.5	3.8	3.1	3.5	3.8	2.7	8.5								C6

Spacing Factor is .75

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

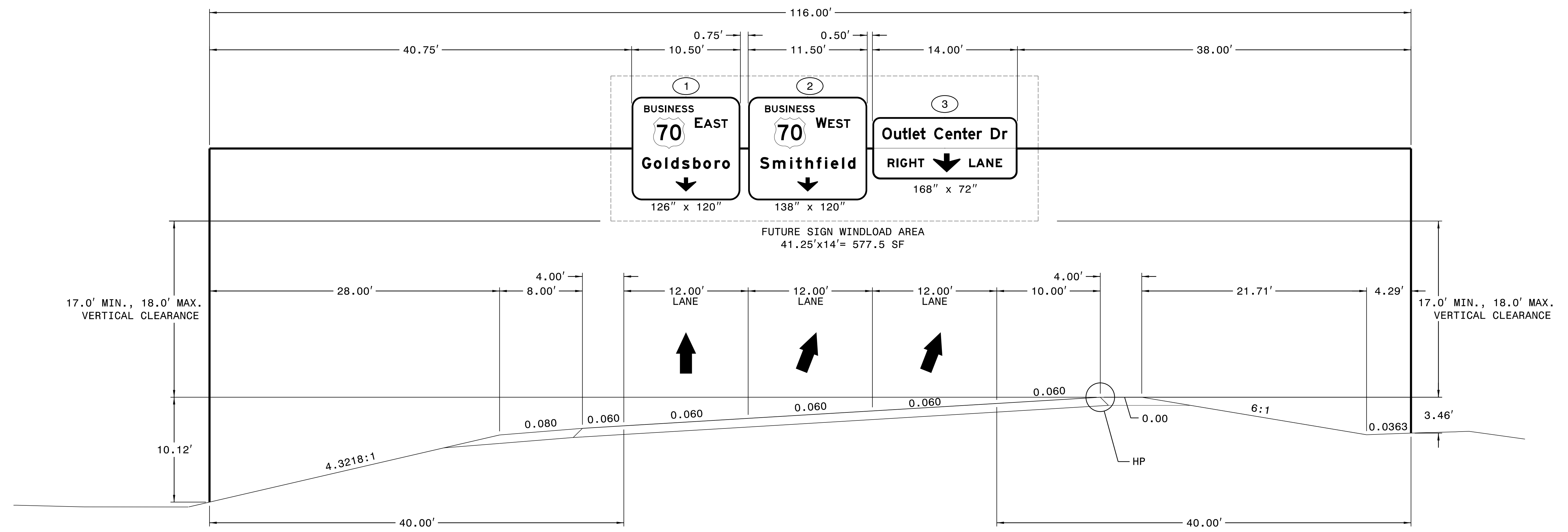
APPROVED: *David T. Sears*
DocuSigned by:
 089183F28E5741E
 9/19/2023



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 UNLESS ALL SIGNATURES COMPLETED**

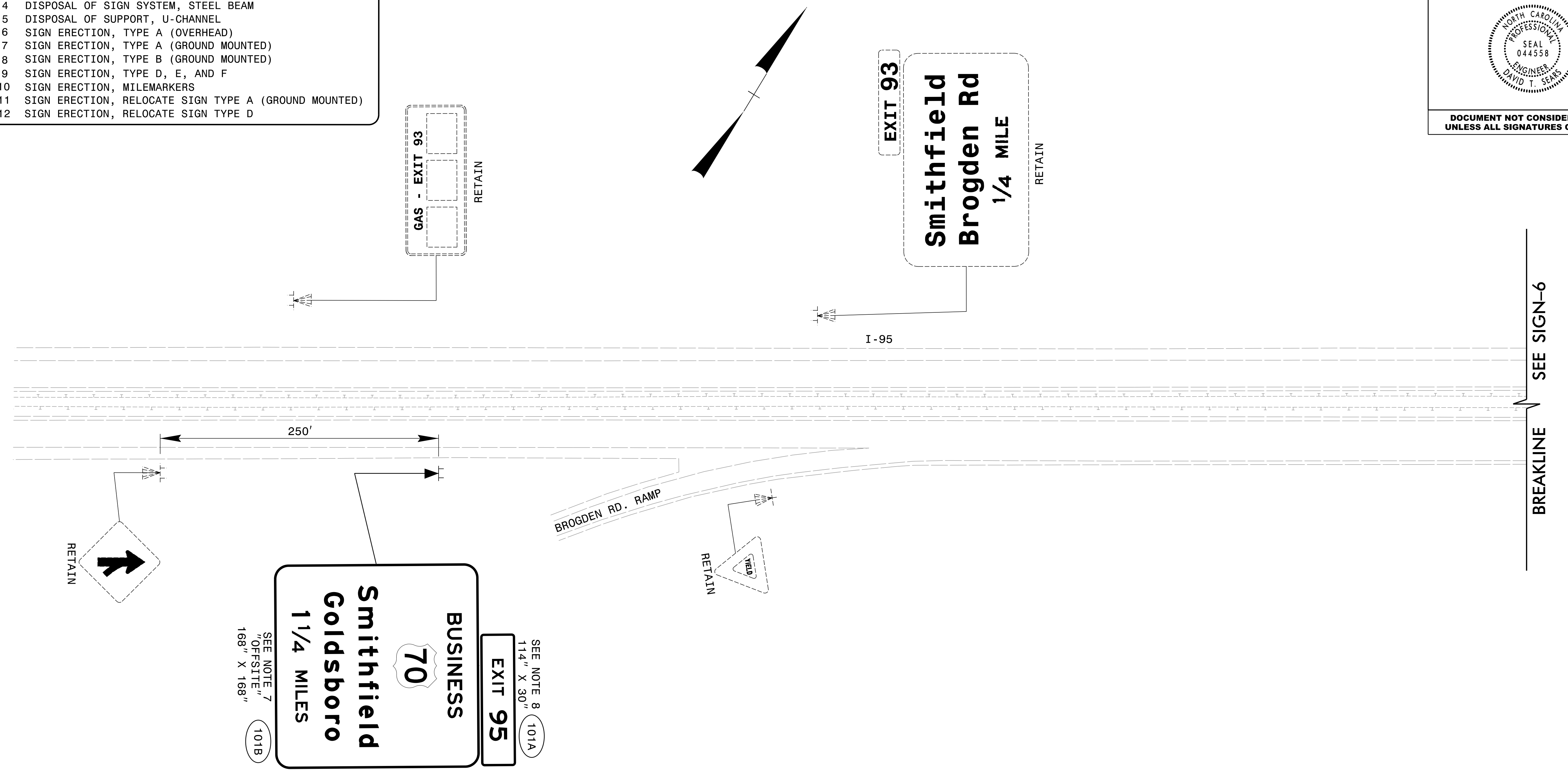
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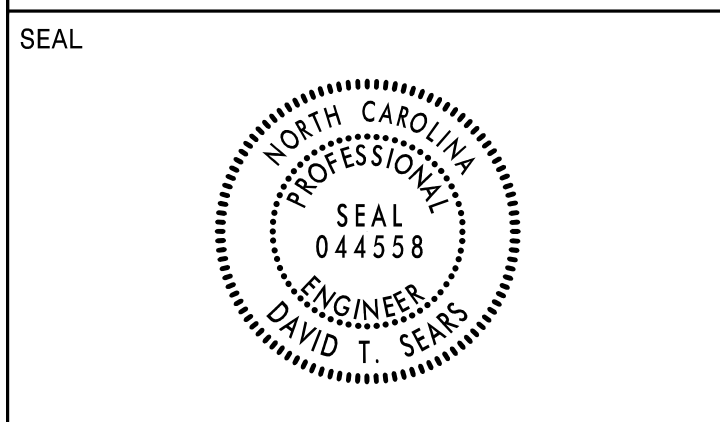
- IF THE CONTRACTOR PROVIDES AN ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
- FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
- THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 4" AND NOT MORE THAN 24" ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
- SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THE PLANS.
- DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 100 MPH.
- MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
- THE EXACT SPAN DIMENSIONS SHALL BE DETERMINED BY THE FABRICATOR.
- SIGN DIMENSIONS SHOWN SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF THE STRUCTURE AND FOOTINGS.



PROJECT NOTES

- 1 DISPOSAL OF SIGN SYSTEM, WOOD
- 2 DISPOSAL OF SIGN SYSTEM, OVERHEAD
- 3 DISPOSAL OF SUPPORT, STEEL BEAM
- 4 DISPOSAL OF SIGN SYSTEM, STEEL BEAM
- 5 DISPOSAL OF SUPPORT, U-CHANNEL
- 6 SIGN ERECTION, TYPE A (OVERHEAD)
- 7 SIGN ERECTION, TYPE A (GROUND MOUNTED)
- 8 SIGN ERECTION, TYPE B (GROUND MOUNTED)
- 9 SIGN ERECTION, TYPE D, E, AND F
- 10 SIGN ERECTION, MILEMARKERS
- 11 SIGN ERECTION, RELOCATE SIGN TYPE A (GROUND MOUNTED)
- 12 SIGN ERECTION, RELOCATE SIGN TYPE D

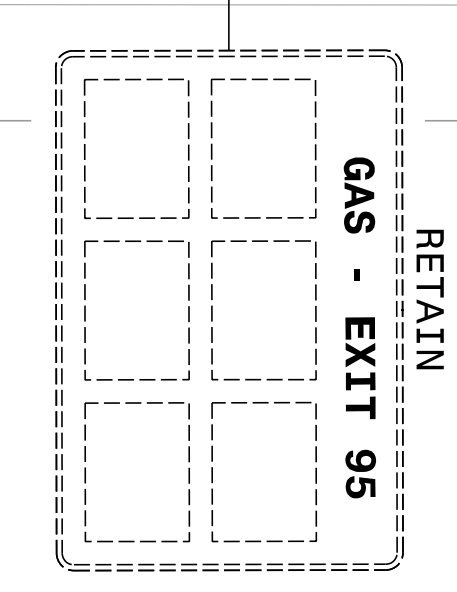
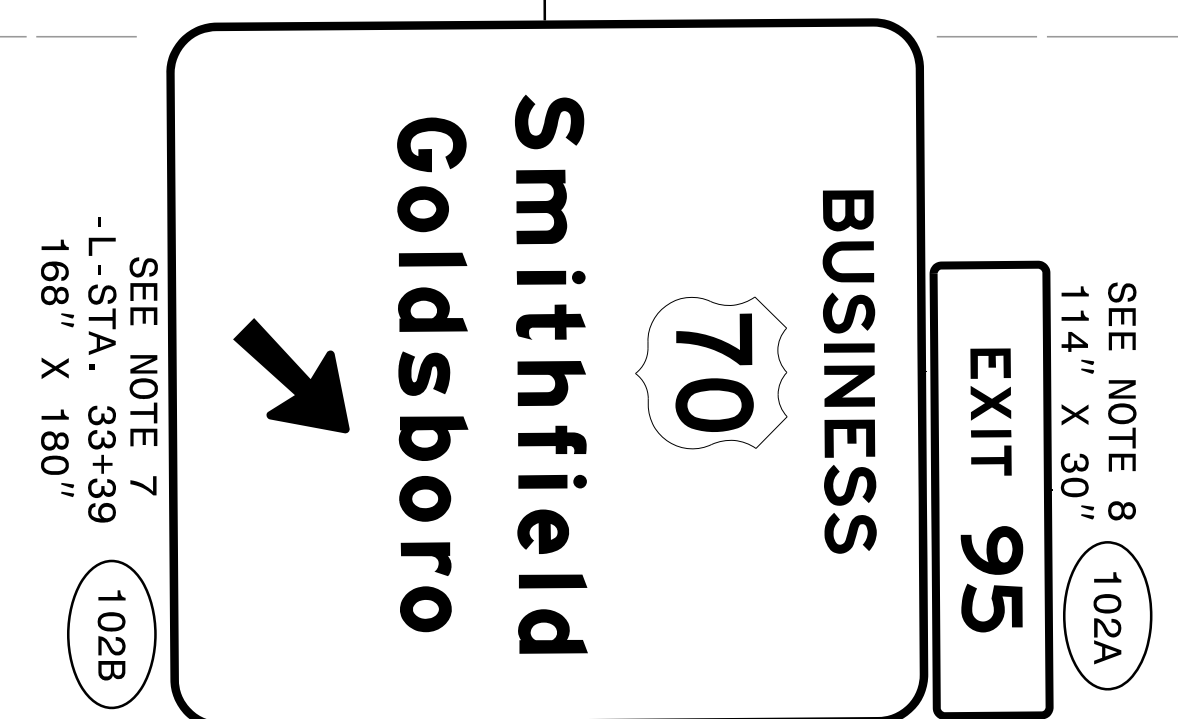
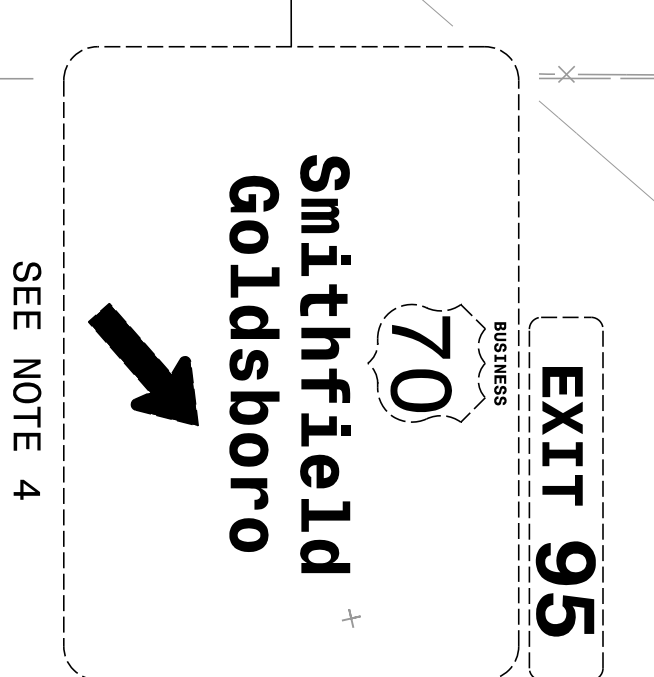
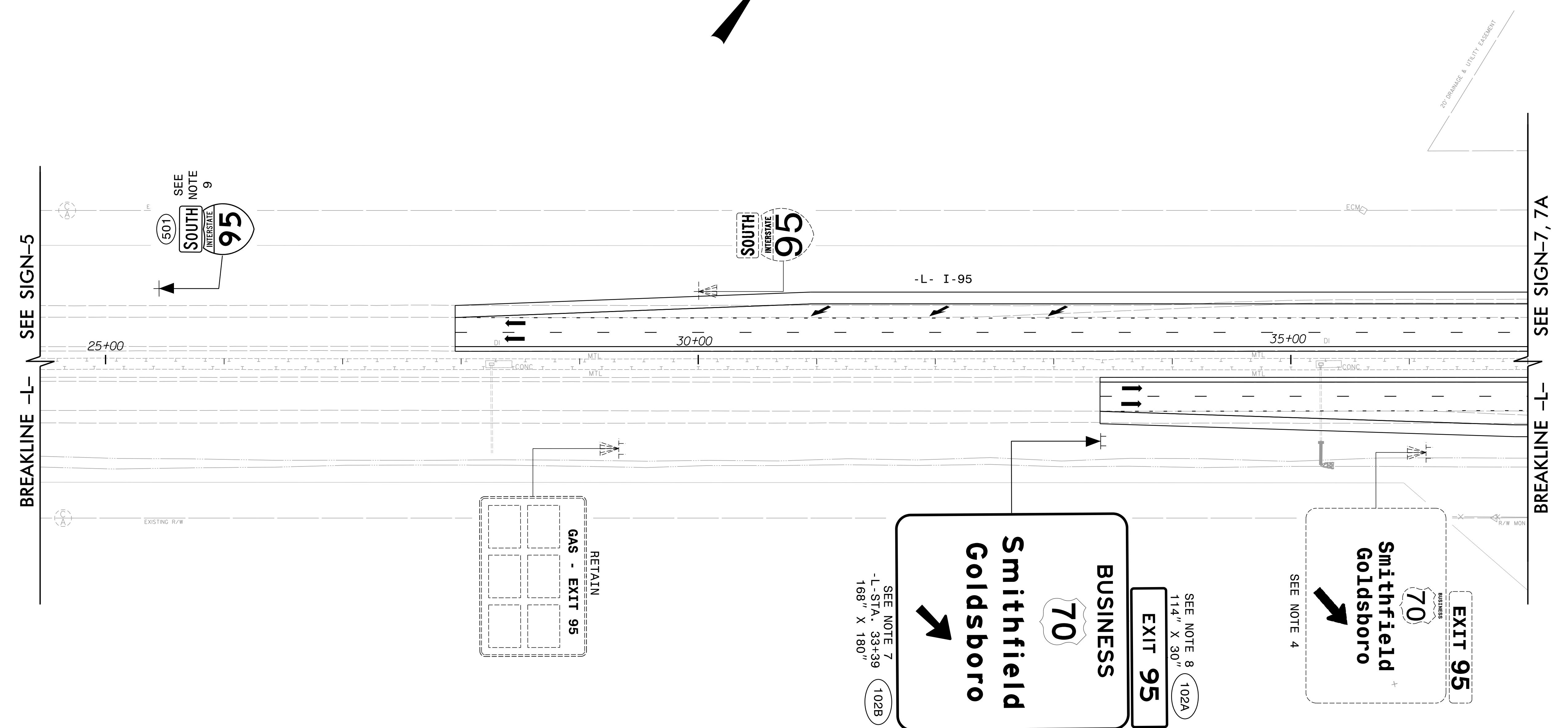
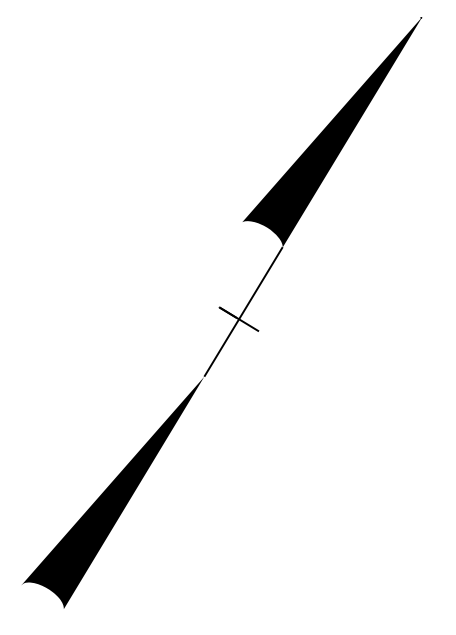




**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

PROJECT NOTES


- 1 DISPOSAL OF SIGN SYSTEM, WOOD
- 2 DISPOSAL OF SIGN SYSTEM, OVERHEAD
- 3 DISPOSAL OF SUPPORT, STEEL BEAM
- 4 DISPOSAL OF SIGN SYSTEM, STEEL BEAM
- 5 DISPOSAL OF SUPPORT, U-CHANNEL
- 6 SIGN ERECTION, TYPE A (OVERHEAD)
- 7 SIGN ERECTION, TYPE A (GROUND MOUNTED)
- 8 SIGN ERECTION, TYPE B (GROUND MOUNTED)
- 9 SIGN ERECTION, TYPE D, E, AND F
- 10 SIGN ERECTION, MILEMARKERS
- 11 SIGN ERECTION, RELOCATE SIGN TYPE A (GROUND MOUNTED)
- 12 SIGN ERECTION, RELOCATE SIGN TYPE D

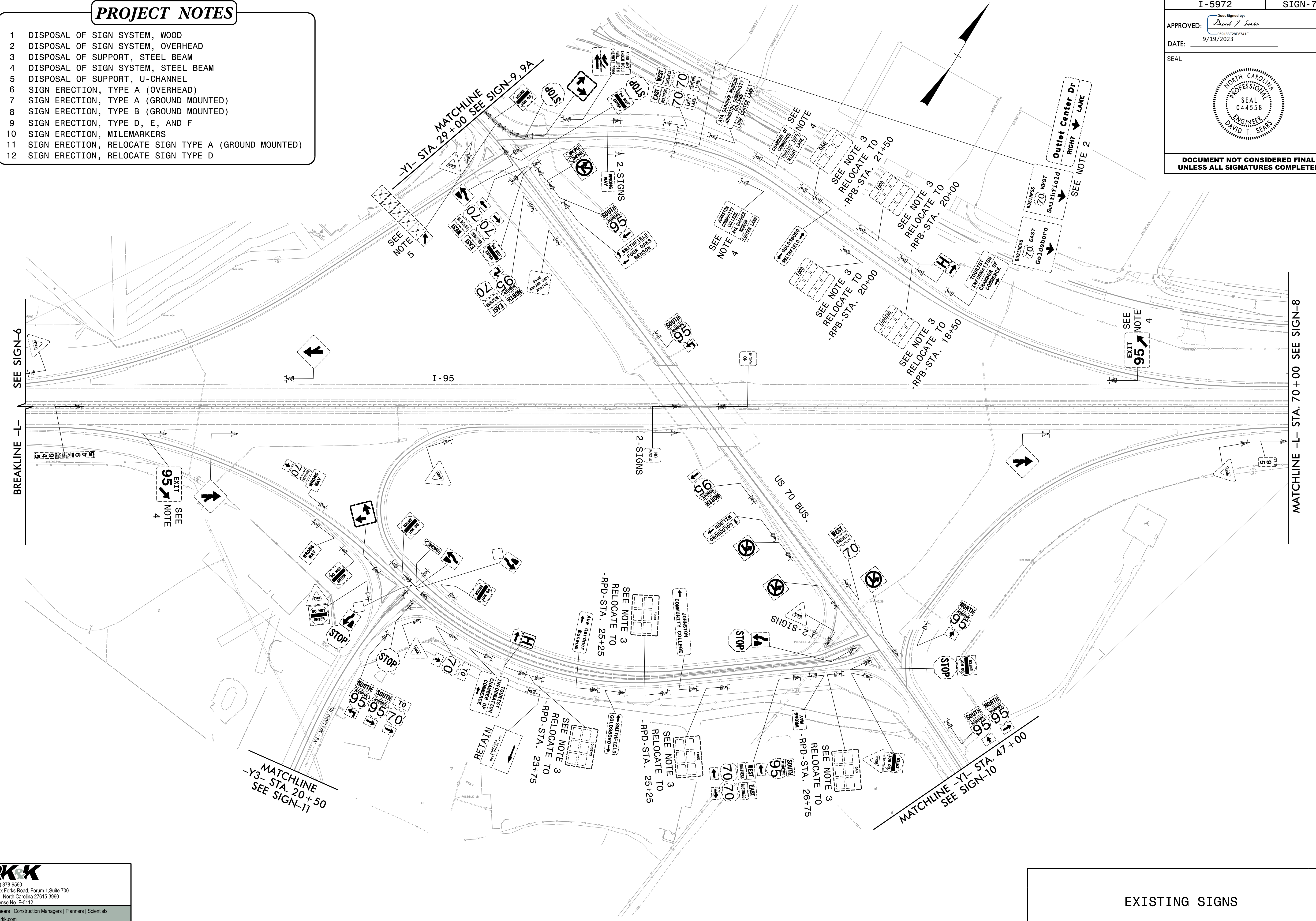


EXISTING & PROPOSED SIGNS

PROJECT NOTES

- 1 DISPOSAL OF SIGN SYSTEM, WOOD
- 2 DISPOSAL OF SIGN SYSTEM, OVERHEAD
- 3 DISPOSAL OF SUPPORT, STEEL BEAM
- 4 DISPOSAL OF SIGN SYSTEM, STEEL BEAM
- 5 DISPOSAL OF SUPPORT, U-CHANNEL
- 6 SIGN ERECTION, TYPE A (OVERHEAD)
- 7 SIGN ERECTION, TYPE A (GROUND MOUNTED)
- 8 SIGN ERECTION, TYPE B (GROUND MOUNTED)
- 9 SIGN ERECTION, TYPE D, E, AND F
- 10 SIGN ERECTION, MILEMARKERS
- 11 SIGN ERECTION, RELOCATE SIGN TYPE A (GROUND MOUNTED)
- 12 SIGN ERECTION, RELOCATE SIGN TYPE D

PROJECT REFERENCE NO. I-5972	SHEET NO. SIGN-7
APPROVED: <i>David J. Seals</i> 089183P28E5741E 9/19/2023	
DATE: 9/19/2023	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

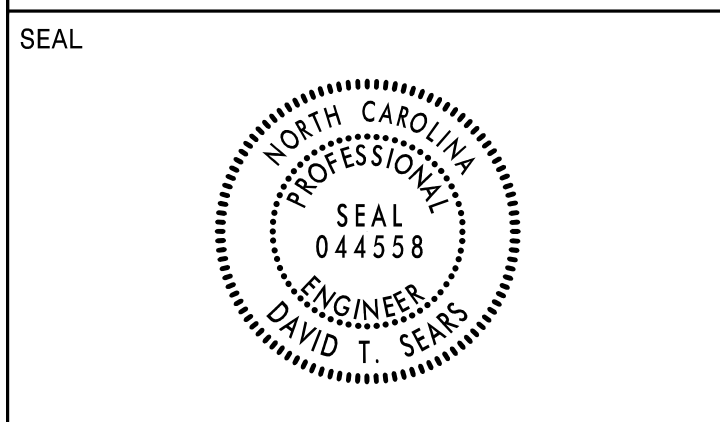


EXISTING SIGNS

RK&K
P: (919) 878-8560
8601 Six Forks Road, Forum 1, Suite 700
Raleigh, North Carolina 27615-3960
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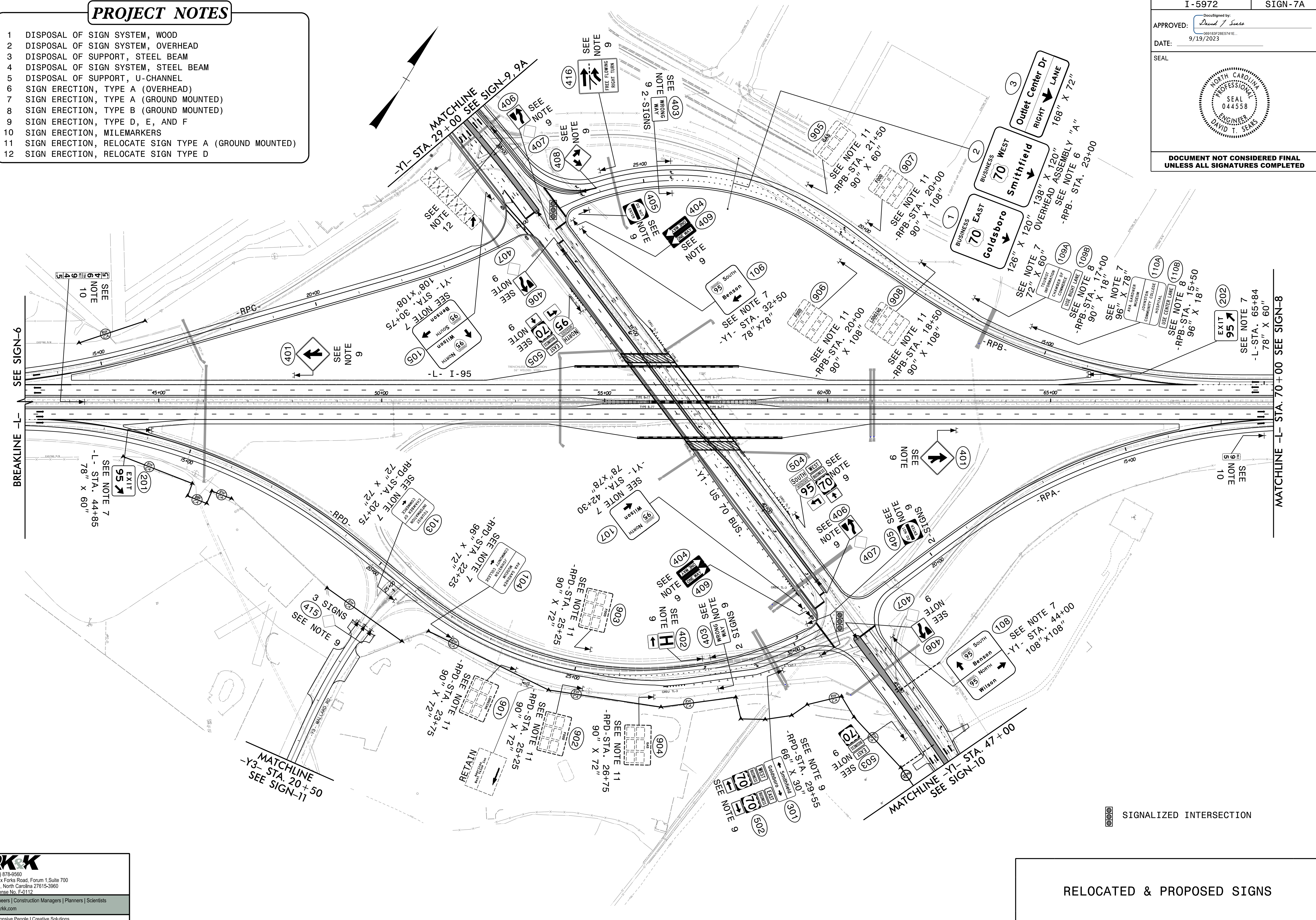
APPROVED: *David J. Sears*
 089183P28E5741E
 9/19/2023



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PROJECT NOTES

- 1 DISPOSAL OF SIGN SYSTEM, WOOD
- 2 DISPOSAL OF SIGN SYSTEM, OVERHEAD
- 3 DISPOSAL OF SUPPORT, STEEL BEAM
- 4 DISPOSAL OF SIGN SYSTEM, STEEL BEAM
- 5 DISPOSAL OF SUPPORT, U-CHANNEL
- 6 SIGN ERECTION, TYPE A (OVERHEAD)
- 7 SIGN ERECTION, TYPE A (GROUND MOUNTED)
- 8 SIGN ERECTION, TYPE B (GROUND MOUNTED)
- 9 SIGN ERECTION, TYPE D, E, AND F
- 10 SIGN ERECTION, MILEMARKERS
- 11 SIGN ERECTION, RELOCATE SIGN TYPE A (GROUND MOUNTED)
- 12 SIGN ERECTION, RELOCATE SIGN TYPE D




◻ SIGNALIZED INTERSECTION

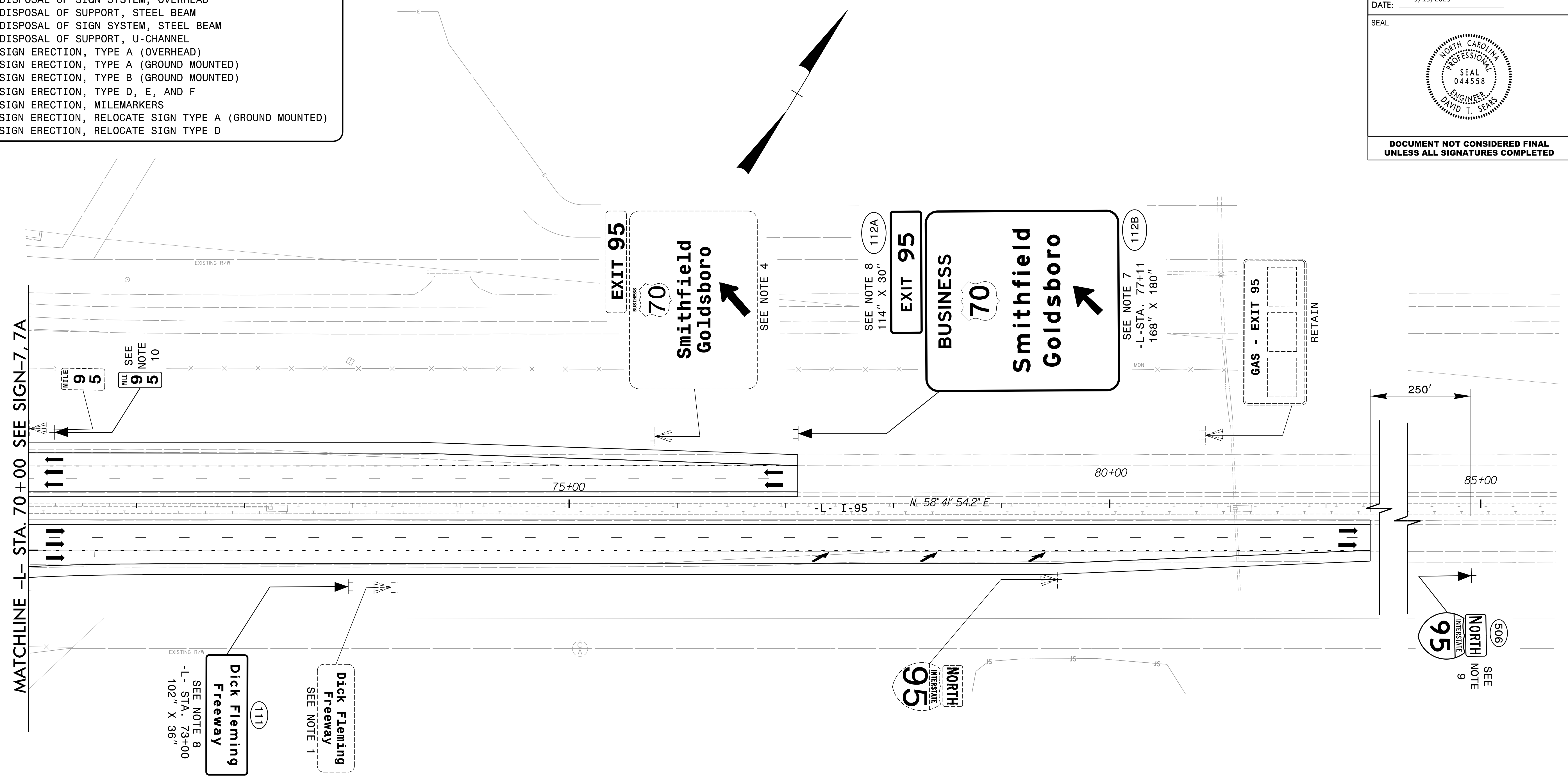
RELOCATED & PROPOSED SIGNS

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PROJECT NOTES

- 1 DISPOSAL OF SIGN SYSTEM, WOOD
- 2 DISPOSAL OF SIGN SYSTEM, OVERHEAD
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PROJECT REFERENCE NO. I-5972	SHEET NO. SIGN-8
APPROVED: <i>David T. Seals</i> 09/19/2023	
DATE: 9/19/2023	
SEAL 	
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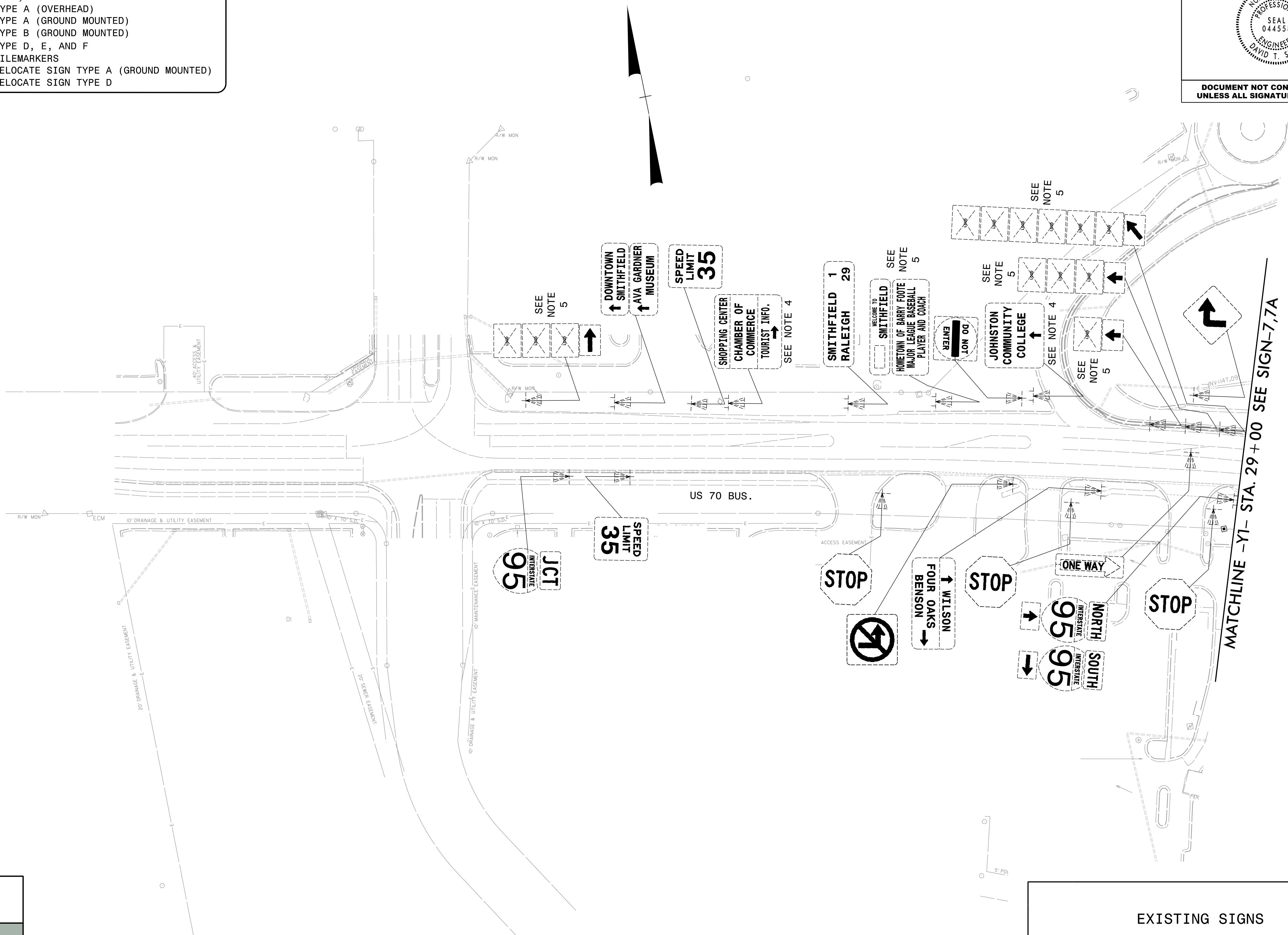
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EXISTING & PROPOSED SIGNS

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PROJECT REFERENCE NO. I-5972	SHEET NO. SIGN-9
APPROVED: <i>David T. Seals</i> 089183P28E5741E 9/19/2023	
SEAL	
	
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EXISTING SIGNS

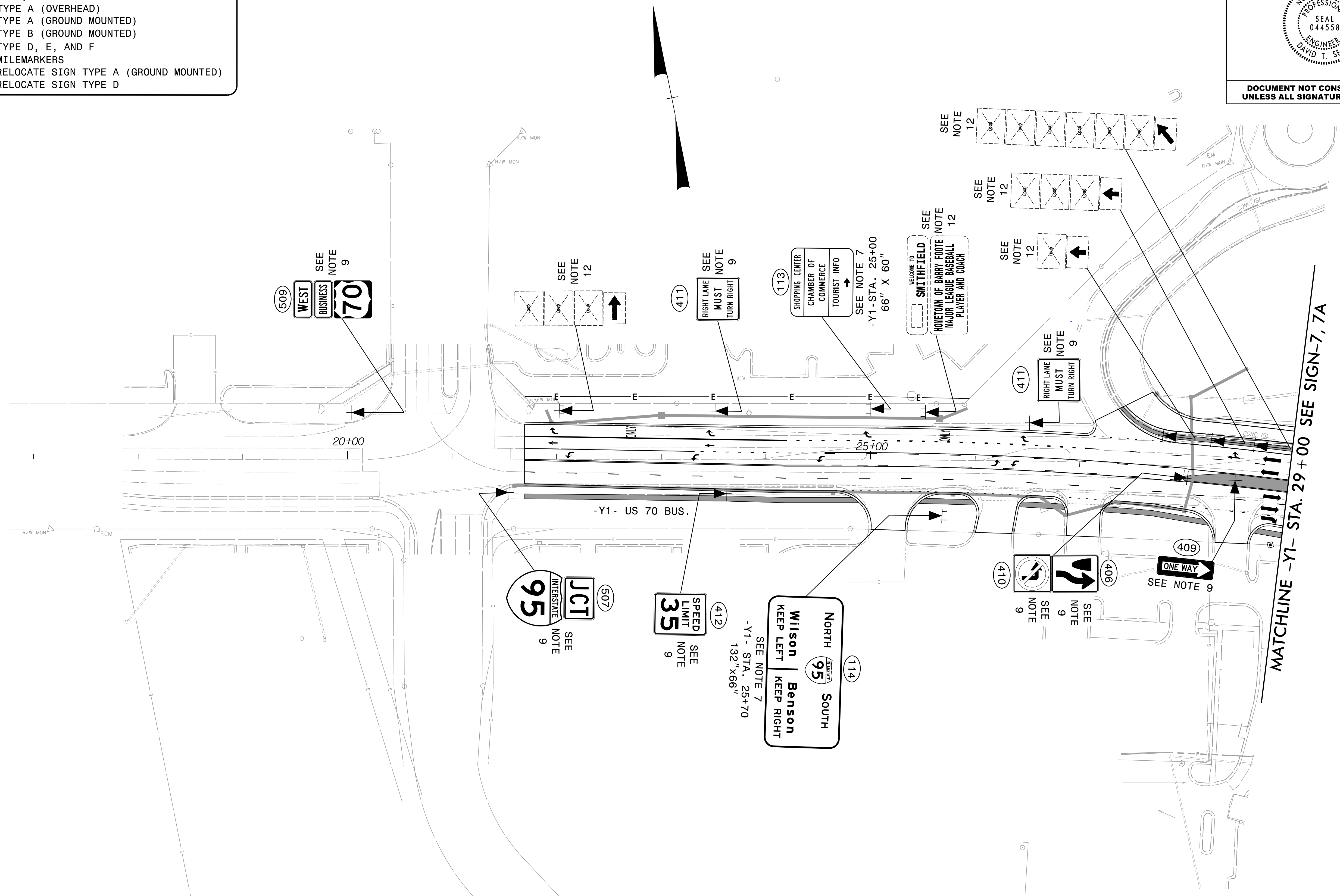
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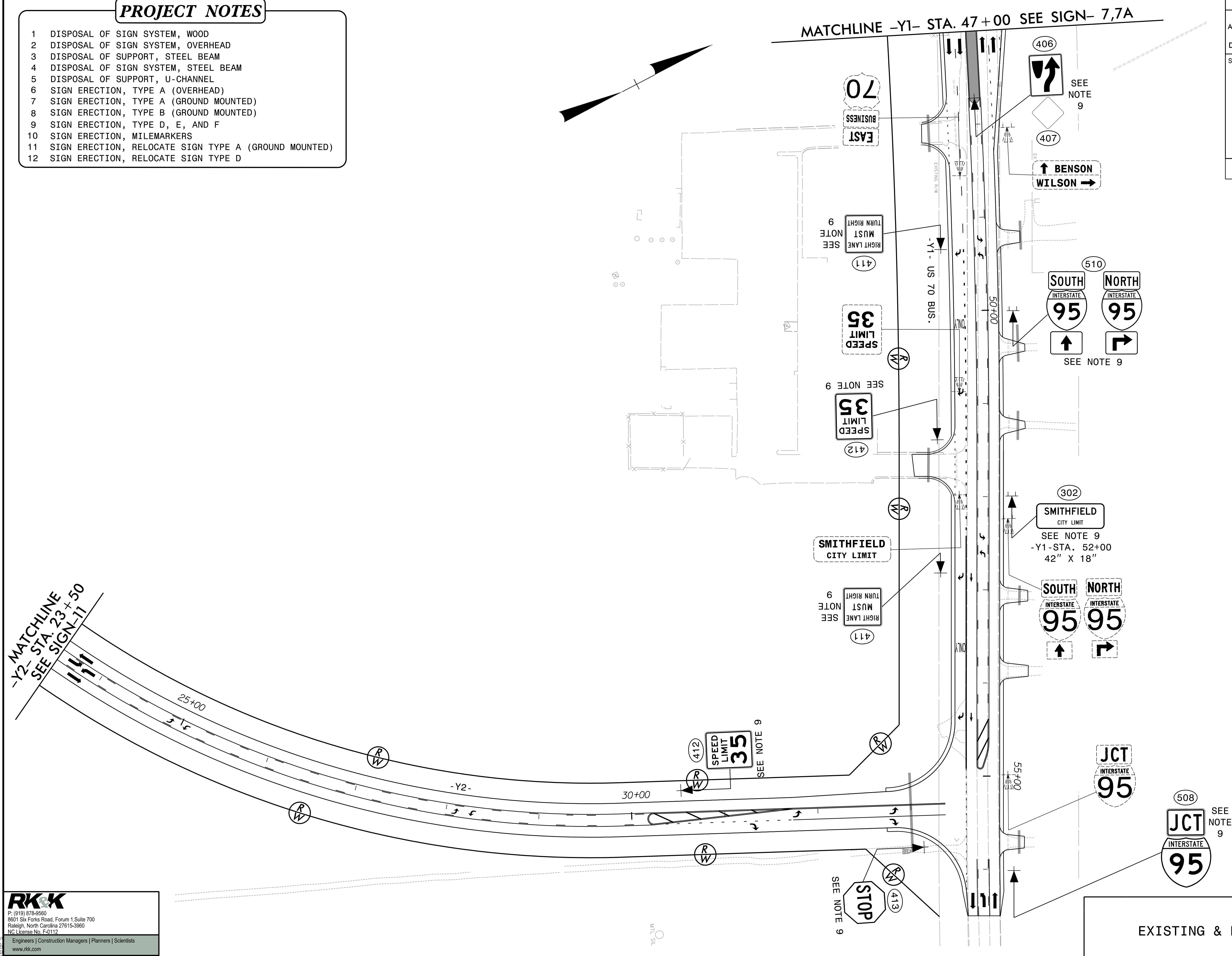
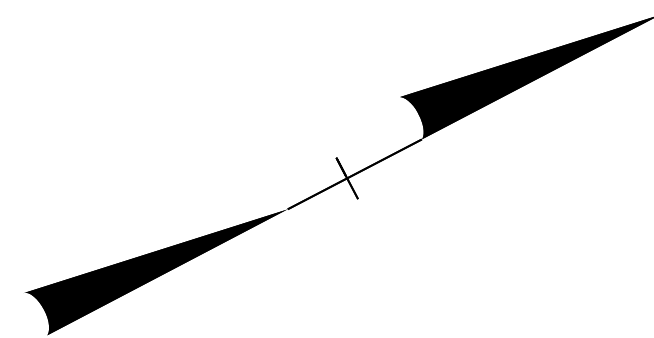


RELOCATED & PROPOSED SIGNS

PROJECT NOTES

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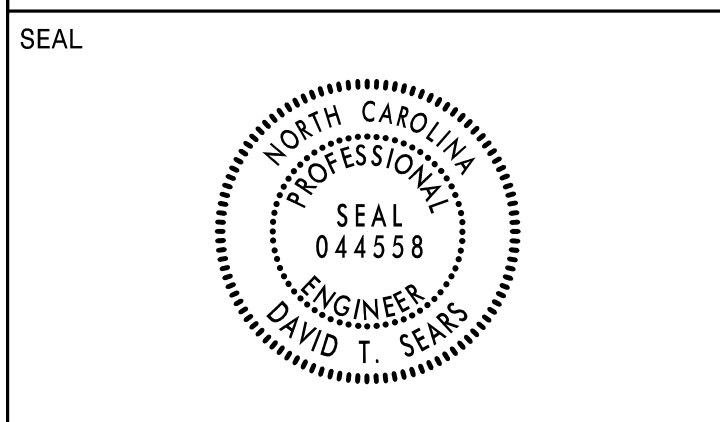
PROJECT REFERENCE NO. I-5972	SHEET NO. SIGN-10
APPROVED: <i>David J. Sears</i> 089183P28E5741E 9/19/2023	
DATE: 9/19/2023	
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EXISTING & PROPOSED SIGNS

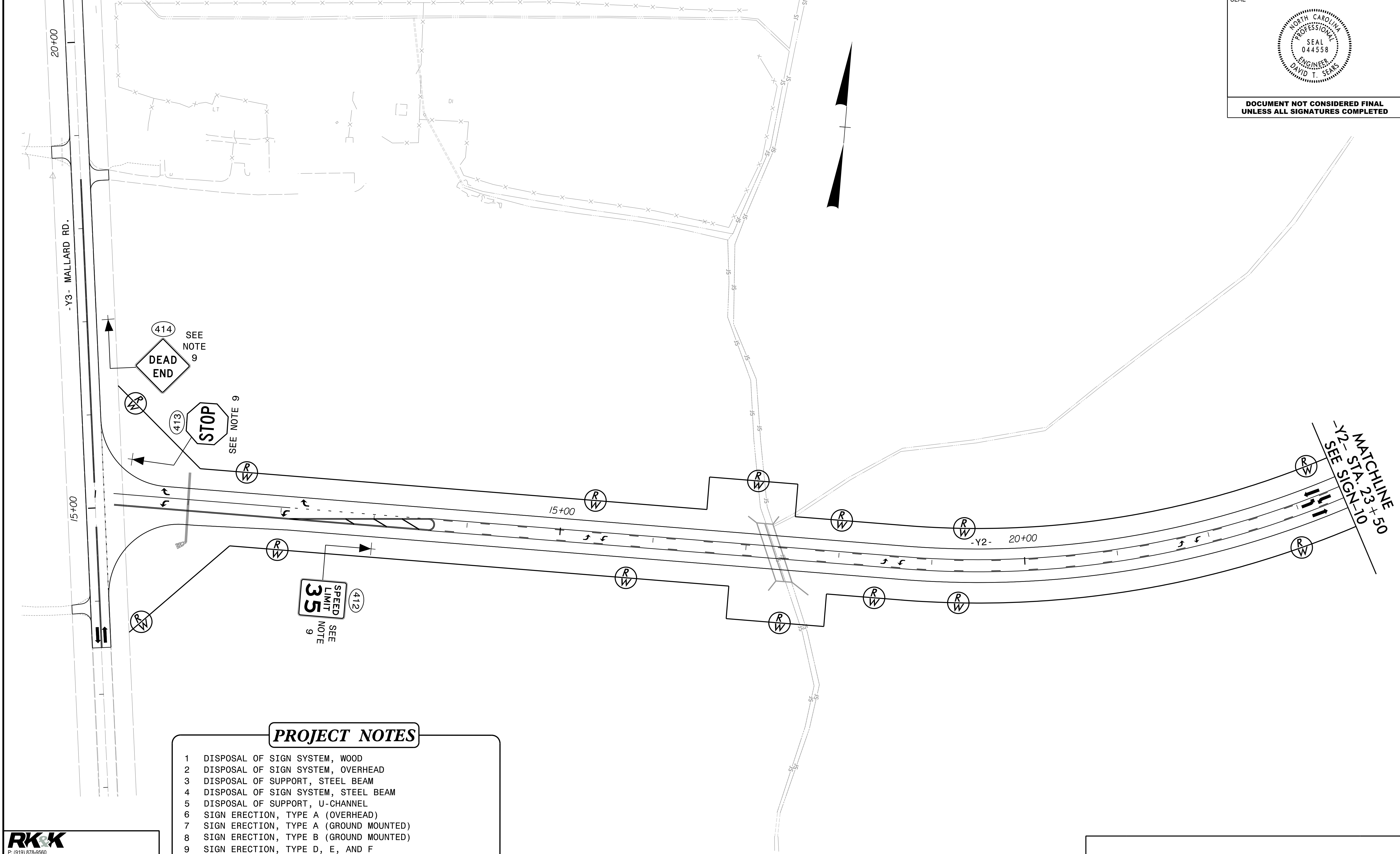
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MATCHLINE
 -Y3- STA. 20+50
 SEE SIGN-7,7A



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PROPOSED SIGNS

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