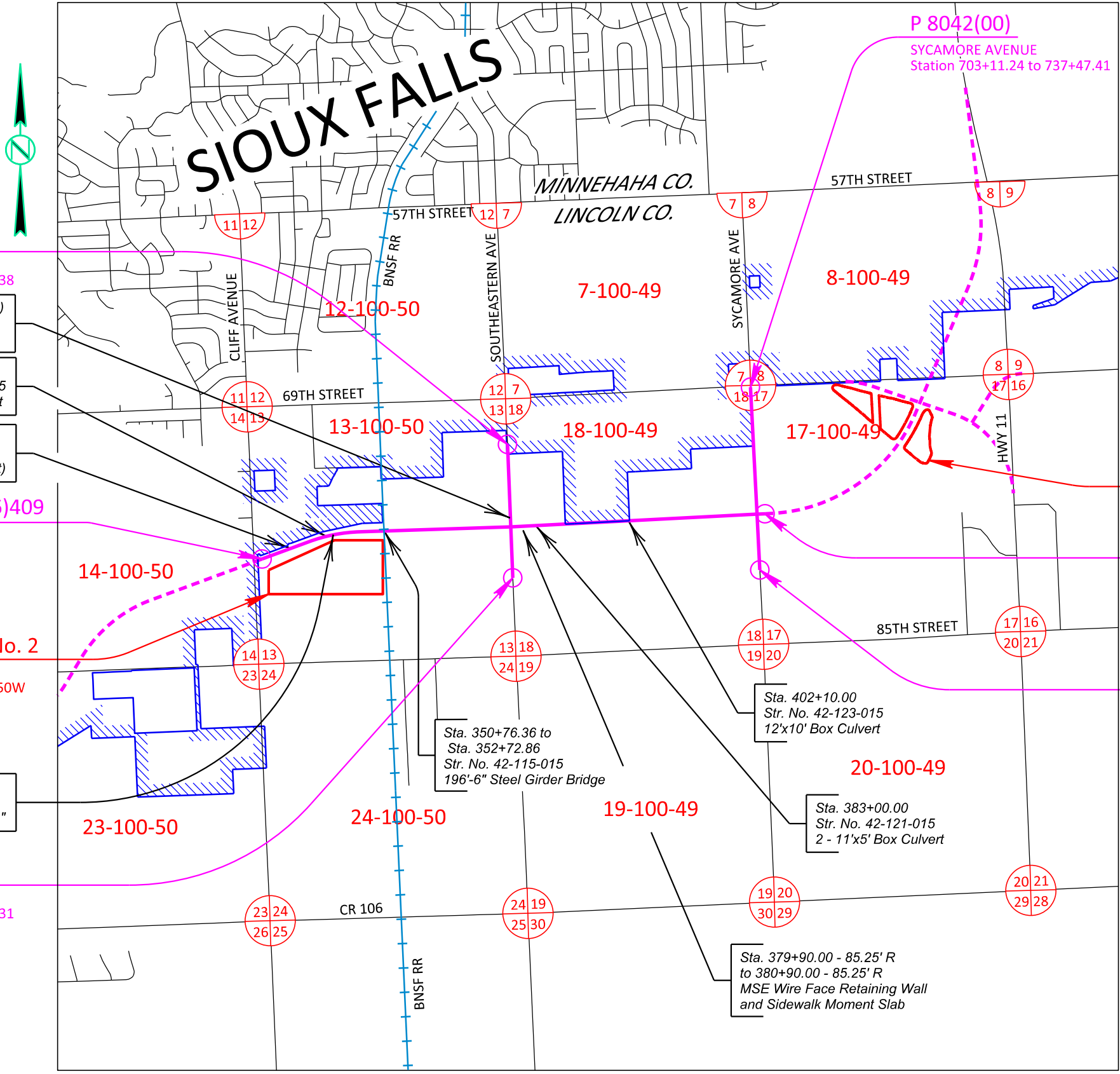


# SECTION S: PERMANENT SIGNING LAYOUT

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(106)409 & P 8042(00)		

FILE: ...Section S\S01.dgn  
PLOT DATE: 10-24-2024  
REV DATE:  
INITIAL:



INDEX OF SHEETS

S1	General Layout with Index
S2 TO S7	Estimate with General Notes
S8	Permanent Sign Details
S9 TO 12	Veterans Parkway Signing Layouts
S13 TO S17	Southeastern Avenue Signing Layouts
S18 TO 24	Sycamore Avenue Signing Layouts
S25	Sign Details
S26 TO S32	Standard Plates

P 8042(00)  
SOUTHEASTERN AVENUE  
Station 613+13.31 to 628+39.38

Sta. 613+27.86 (Southeastern)  
Str. No. 42-120-015  
9'x5' Box Culvert (Precast)

Sta. 340+00.00  
Str. No. 42-113-015  
12'x10' Box Culvert

Sta. 332+19.10  
Str. No. 42-111-016  
2 - 12'x5' Box Culvert (Precast)

BEGIN NH 0100(106)409  
VETERANS PARKWAY  
Station 326+00.00

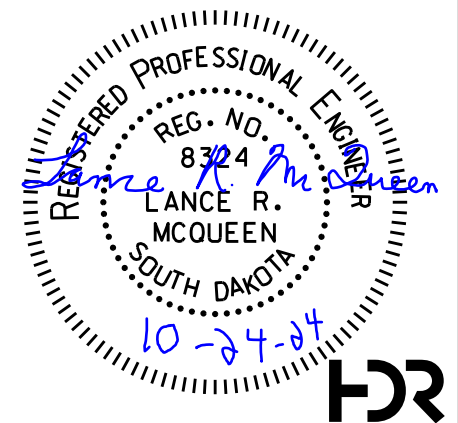
Borrow Pit No. 2  
S 1/2  
Sec 13 - T100N - R50W

P 8042(00)  
SOUTHEASTERN AVENUE  
Station 600+99.31 to 609+76.31

Borrow Pit No. 5  
N 1/2  
Sec 17 - T100N - R49W

END NH 0100(106)409  
VETERANS PARKWAY  
Station 430+00.00

P 8042(00)  
SYCAMORE AVENUE  
Station 699+99.87 to 709+78.23



**SECTION S ESTIMATE OF QUANTITIES**

**FOR BIDDING PURPOSES ONLY**

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(106)409 & P 8042(00)	S2	S32

Plotting Date: 10/24/2024

Bid Item Number	Item	Quantity				Unit
		PCN 01V7 Veterans	PCN 08DG Southeastern	PCN 08DH Sycamore	Total	
110E0135	Remove Delineator	-	3	-	3	Each
110E5020	Salvage Traffic Sign	11	2	-	13	Each
110E7150	Remove Sign for Reset	-	1	-	1	Each
632E1320	2.0"x2.0" Perforated Tube Post	70.8	107.0	125.1	302.9	Ft
632E2020	4"x4" White Delineator with 1.12 Lb/Ft Post	-	4	9	13	Each
632E2024	4"x8" White Delineator with 1.12 Lb/Ft Post	-	4	9	13	Each
632E2510	Type 2 Object Marker Back to Back	31	16	13	60	Each
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	203.0	49.0	43.0	295.0	SqFt
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	112.5	36.0	36.0	184.5	SqFt
632E3500	Reset Sign	-	1	-	1	Each
632E4005	Type 3 Single Sided Barricade	72.0	-	-	72.0	Ft

**SALVAGE TRAFFIC SIGN**

All signs listed for salvage to City of Sioux Falls in the Permanent Sign Installation Table will have the existing posts, bases, and signs dismantled and delivered to the City of Sioux Falls. The existing City signs will be transported to:

1100 East Chambers Street  
Sioux Falls, SD 57104  
Contact: Heath Hoftiezer #(605) 367-8634

The Contractor will notify the Engineer two days prior to time of delivery to the City of Sioux Falls so correct placement for storage and inventory of materials can be made upon receipt. All bolts, nuts, and washers will be placed in individual 5-gallon pails. Wooden posts will be stockpiled separately from steel posts. All signs listed for removal will be handled with care so that the signs are not damaged during removal or transport. The Contractor will replace and pay for any salvaged signs damaged in their care.

All costs for labor and equipment necessary to remove, dismantle, and deliver signs to the City of Sioux Falls will be incidental to the contract unit price per each for Salvage Traffic Sign. The quantity of signs to be salvaged is shown in the Permanent Sign Installation Table. The plans quantity is shown as per assembly. Payment for salvaging signs will be paid per assembly at the contract unit price per each for "Salvage Traffic Sign".

**REMOVE SIGN FOR RESET AND RESET SIGN**

Signs that are scheduled for reset will be dismantled and reassembled to the extent needed by the Contractor to properly reset the sign. Signs will be handled with care so that the existing signs, posts, and bases are not damaged during the relocation process. The Contractor will replace and pay for any reset signs damaged in their care. The Contractor will remove and dispose of any existing posts for all reset signs that require use of new posts as shown in the Permanent Sign Installation Table.

All costs for removing, dismantling, and disposing of any existing posts will be incidental to the contract unit price per each for Remove Sign for Reset. All costs for resetting the existing signs will be incidental to the contract unit price per each for Reset Sign. All quantities for Remove Sign for Reset and Reset Sign will be per assembly at the contract unit price per each.

**GENERAL PERMANENT SIGNING**

Proposed sign installations will be staked in the field by the Contractor and checked by the Engineer. The Contractor will give the Engineer a minimum of one week to check staked locations prior to signpost installation. Lateral offset of signs will be as shown in the plans or as directed by the Engineer.

The Contractor will be responsible for contacting South Dakota One Call to locate the utilities at the staked sign installation locations.

Aluminum U-Channel stiffeners will be used on all signs 36 inches or greater in width and will conform to ASTM B221 Alloy 6063-T6 or 6061-T6. The U-Channel will be 2 inches in width and free of holes. The U-Channel stiffeners will also be used to connect various signs together so that an entire sign assembly can be erected on a single installation. Stiffeners may be fastened to signs by use of 1/4-inch diameter drive rivets. Refer to the Breakaway Sign Supports diagram for typical sign and stiffener details.

The Contractor will use 3/8-inch diameter rust proof machine sign bolts, flat metal washers, neoprene washers (against the sign sheeting), lock washers, and nuts to fasten the sign to the channel aluminum and posts. A minimum of two bolts will extend through each post.

When signs are mounted in an assembly, they will be 1-2 inches apart vertically and horizontally. The height of the post must not exceed the minimum height needed by more than 0.5 feet. Any portion that extends above the sign will be cut off.

No separate payment will be made for cutting the post or for that length cut off.

Prior to ordering signs, the Contractor will verify dimensions, background, border, and legend of the signs.

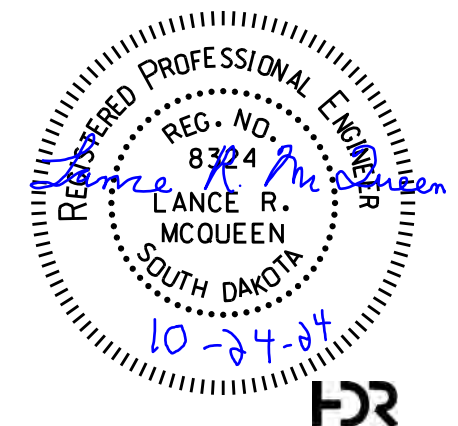
Prior to use, the Contractor will provide documentation for the sign support devices showing they meet the applicable NCHRP 350 or MASH requirements.

**NEW PERMANENT SIGNING**

All signs will be manufactured in accordance with the sheeting manufacturer's recommendations utilizing a matched component system, including inks, electronic cuttable films, and protective overlay films.

All Flat Aluminum Signs, Nonremovable Copy High Intensity will have sheeting in conformance with the requirements of ASTM D4956 Type IV. All Flat Aluminum Signs, Nonremovable Copy Super/Very High Intensity will have sheeting in conformance with the requirements of ASTM D4956 Type XI.

All costs associated with furnishing and installing the new permanent signs, and with furnishing and installing stiffeners and hardware will be incidental to the contract unit price per square foot for "Flat Aluminum Sign, Nonremovable Copy High Intensity" or "Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity".



**DIGITALLY PRINTED SIGNS**

Digitally printed signs will be allowed on this project. If the Contractor elects to provide digitally printed signs, such signs will adhere to the following specifications.

**PROTECTIVE OVERLAY FILM**

Permanent traffic signs printed with digital ink systems will be fabricated with a full sign protective overlay film designed to provide a smooth surface needed for retroreflectivity, and to protect the sign from fading and UV degradation. The overlamine will comply with the retroreflective sheeting manufacturer's recommendations to ensure proper adhesion and transparency and will also meet the reflective film durability as identified in Table 1.

**Table 1: Retroreflective Film Minimum Durability Requirements**

ASTM D4956 Type	Full Sign Replacement Term (years)	Sheeting Replacement Term (years)
I	0	7
III	7	10
IV	7	10
VIII	7	10
IX	7	12
XI	7	12

**FABRICATION**

Retroreflective sheeting will be applied to a properly cleaned and prepared aluminum sign blank in accordance with the retroreflective sheeting manufacturer's recommendations. Sign legend will be applied using digital print technologies and systems in accordance with the retroreflective sheeting manufacturer's recommendations and the requirements of these plans.

Finished signs will be free of ragged edges and must be supplied clean and free of scratches, grease, oil, lubricants or other contaminants. Minor blemishes (dirt speck, dust, etc.) may settle on the fresh ink surface or become entrapped between the sheeting surface and transparent overlay film due to static charge within the sign shop environment. Any blemish must be minor and not interfere with the communication of the sign message to the motorist. The blemish must not be visible to the naked eye when viewed from 30 feet or greater.

After application of the retroreflective sheeting, sign blanks will be stacked and packaged face to face, back to back, and protected in accordance with the sheeting manufacturer's recommendations. Finished signs will be securely packaged to prevent damage during transit or storage according to the sheeting manufacturer's recommendations.

**TRAFFIC SIGN PERFORMANCE WARRANTY PROVISIONS**

Based on the ASTM Type of sheeting specified, traffic control signs will be warranted for the duration shown in Table 1. Full product terms and conditions are as established by each sheeting manufacturer and may contain certain limitations based on sheeting and ink colors, and geographic exposure of the sign. A copy of the warranty document with complete details of terms and conditions will be supplied if requested by the Engineer.

**CERTIFIED DIGITAL SIGN FABRICATOR**

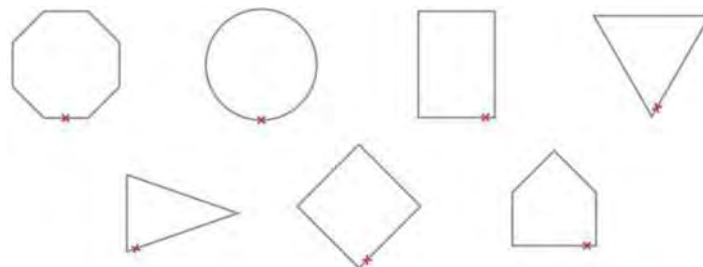
Sign fabricators using digital imaging methods to produce regulated traffic signs must be certified by the reflective sheeting manufacturer whose materials are used to produce the delivered signs.

**DATE TAGGING SIGNS WITH PERTINENT INFORMATION**

All digitally printed signs are required to be date-tagged with the following 2 components:

1. Date tags on the back of signs  
Tags will have the following information and be fabricated with material and printing system that are as durable as the warranted sign.
  - Name of Sign Fabricator
  - Date the sign was fabricated (month and year)
  - Process that was used for sign fabrication (digitally printed)
  - Supplier of sheeting that was used for fabricating the sign.
2. Border date

The month and year (mm/yyyy) of sign fabrication will be printed in the border of the sign in 3/8" sans serif font. Border date will be printed with the same warranted printed system as the sign face. The date should be printed in the locations indicated below.



**SQUARE TUBE ANCHOR SLEEVE**

The Contractor will furnish and install new 2.5" x 2.5" x 18", 12 Gauge square tube anchor sleeve or equivalent components as approved by the Engineer. A 2.25" x 2.25" x 4', 12 Gauge perforated tube post will be used as the anchor post for installation with the square tube anchor sleeve.

**SIGNPOST INSTALLATION IN CONCRETE**

On concrete surfaces, a core will be drilled out (for installation in existing concrete) or a block out will be used (for installation in new concrete) for sign installation. The core or block out diameter will be sized accordingly depending on post size. Concrete surrounding the core or block out must not be cracked or damaged.

All costs associated with installation in concrete will be incidental to the sign installation.

**FOR BIDDING PURPOSES ONLY**

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(106)409 & P 8042(00)	S3	S32

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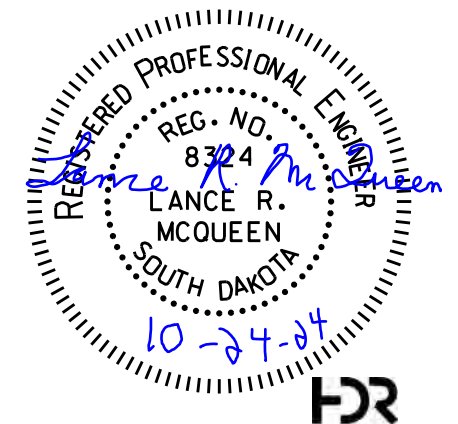
**OVERHEAD AND POLE MOUNTED SIGNS**

The Contractor will install the new overhead signs with new connection hardware and mast arm mounting hardware.

Signs that are mounted on luminaire and signal poles and on signal mast arms will be attached with high strength stainless steel bands or galvanized pole clamps. Signs will be attached as recommended by the manufacturer. All sign mounting hardware will be stainless steel or galvanized steel.

Pole mounted signs will be mounted a minimum of 7 ft above the ground. Mounting heights are measured to the bottom of the signs.

All costs for pole and mast arm sign mounting hardware will be incidental to the contract unit price per square foot for "Flat Aluminum Sign, Nonremovable Copy High Intensity" or "Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity".

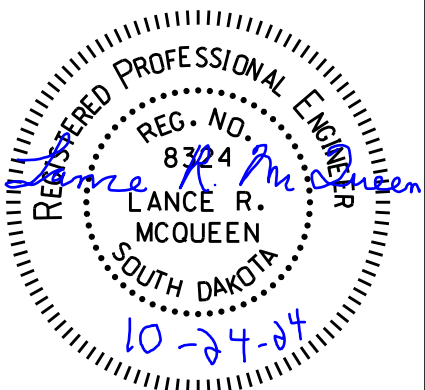


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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(106)409 & P 8042(00)	S4	S32

Plotting Date: 10/24/2024

Permanent Sign Installation Table													
Alignment		Sign, Delineator and Barricade Data									Post Data		
Station	Offset	Sign Description	Sign Code	Sign Width (in)	Sign Height (in)	Flat Aluminum Sign, Nonremovable Copy High Intensity (IV) (SqFt)	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity (XI) (SqFt)	Type 2 Object Marker Back to Back (Each)	Salvage Traffic Sign (Each)	Type 3 Single Sided Barricade (Feet)	use Street Light (SL), use Power Pole (PP), use Mast Arm (MA), use 1 Post (1P), use 2 Posts (2P), or use 3 Posts (3P)	(F)ixed Base, Breakaway (S)lip Base, or (A)nchor Stub Post	2.0"x2.0" Perforated Tube Post Height (Ft)
<b>NH 0100(106)409 - PCN 01V7 (Veterans Pkwy)</b>													
<b>VETERANS PARKWAY, Lt Side</b>													
332+00	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
340+20	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
347+45	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
357+60	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
374+40	Lt	Speed Limit 50 MPH (proposed)	R2-1	30"	36"	7.5					SL		
376+50	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
377+00	Lt	One Way Left (proposed)	R6-1L	36"	12"	3.0					SL		
	Lt	One Way Right (proposed)	R6-1R	36"	12"	3.0					SL		
379+35	Lt	Do Not Enter (proposed)	R5-1	36"	36"		9.0				1P	A	10.4
382+85	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
391+25	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
402+30	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
421+55	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
421+85	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
424+90	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
425+90	Lt	Speed Limit 50 MPH (proposed)	R2-1	30"	36"	7.5					SL		
427+50	Lt	One Way Left (proposed)	R6-1L	36"	12"	3.0					SL		
	Lt	One Way Right (proposed)	R6-1R	36"	12"	3.0					SL		
430+75	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
<b>VETERANS PARKWAY, Median'</b>													
326+05	Median	Road Closed (existing)	Existing						2				
326+05	Median	Type 3 Barricade (existing)	Existing						9				
376+55	Median	Keep Right (proposed)	R4-7	24"	30"	5.0					1P	A	9.9
379+20	Median	Keep Right (proposed)	R4-7	24"	30"	5.0					1P	A	9.9
427+15	Median	Keep Right (proposed)	R4-7	24"	30"	5.0					1P	A	9.9
429+40	Median	Keep Right (proposed)	R4-7	24"	30"	5.0					1P	A	9.9
430+00	Median	Road Closed (proposed)	R11-2	48"	36"	12.0							
	Median	Road Closed (proposed)	R11-2	48"	36"	12.0							
	Median	Type 3 Barricade (proposed)	Special							72			



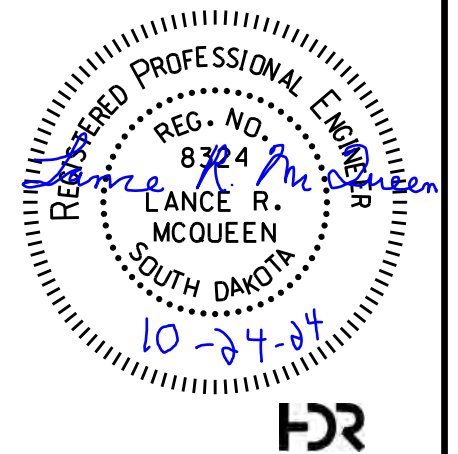


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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(106)409 & P 8042(00)	S5	S32

Plotting Date: 10/24/2024

Permanent Sign Installation Table													
Alignment		Sign, Delineator and Barricade Data							Post Data				
Station	Offset	Sign Description	Sign Code	Sign Width (in)	Sign Height (in)	Flat Aluminum Sign, Nonremovable Copy High Intensity (IV) (SqFt)	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity (X) (SqFt)	Type 2 Object Marker Back to Back (Each)	Salvage Traffic Sign (Each)	Type 3 Single Sided Barricade (Feet)	use Street Light (SL), use Power Pole (PP), use Mast Arm (MA), use 1 Post (1P), use 2 Posts (2P), or use 3 Posts (3P)	(Fixed Base, Breakaway (S)lip Base, or (A)nchor Stub Post	2.0"x2.0" Perforated Tube Post Height (Ft)
<b>VETERANS PARKWAY, Rt Side</b>													
330+55	Rt	Speed Limit 50 MPH (proposed)	R2-1	30"	36"	7.5					SL		
332+00	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
339+90	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
342+95	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
347+60	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
357+05	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
357+35	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
375+85	Rt	Do Not Enter (proposed)	R5-1	36"	36"		9.0				1P	A	10.4
378+75	Rt	One Way Left (proposed)	R6-1L	36"	12"	3.0					SL		
	Rt	One Way Right (proposed)	R6-1R	36"	12"	3.0					SL		
382+40	Rt	Speed Limit 50 MPH (proposed)	R2-1	30"	36"	7.5					SL		
383+10	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
391+00	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
392+05	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
392+65	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
393+20	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
401+90	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
413+00	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
421+05	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
421+45	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
421+95	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
423+60	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
423+85	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
424+90	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"			1					
426+50	Rt	Do Not Enter (proposed)	R5-1	36"	36"		9.0				1P	A	10.4
429+05	Rt	One Way Left (proposed)	R6-1L	36"	12"	3.0					SL		
	Rt	One Way Right (proposed)	R6-1R	36"	12"	3.0					SL		
<b>VETERANS PARKWAY AND SOUTHEASTERN AVENUE, Mast Arm</b>													
NW Corner		Southeastern Ave - 18" (proposed)	Special	96"	18"		12.0				MA		
		Left Turn Only (proposed)	R3-5L	30"	36"	7.5					MA		
		Left Turn Only (proposed)	R3-5L	30"	36"	7.5					MA		
SW Corner		Veterans Pkwy - 18" (proposed)	Special	84"	18"		10.5				MA		
		Left Turn Only (proposed)	R3-5L	30"	36"	7.5					MA		
		Left Turn Only (proposed)	R3-5L	30"	36"	7.5					MA		
NE Corner		Veterans Pkwy - 18" (proposed)	Special	84"	18"		10.5				MA		
		Left Turn Only (proposed)	R3-5L	30"	36"	7.5					MA		
		Left Turn Only (proposed)	R3-5L	30"	36"	7.5					MA		
SE Corner		Southeastern Ave - 18" (proposed)	Special	96"	18"		12.0				MA		
		Left Turn Only (proposed)	R3-5L	30"	36"	7.5					MA		
		Left Turn Only (proposed)	R3-5L	30"	36"	7.5					MA		
<b>VETERANS PARKWAY AND SYCAMORE AVENUE, Mast Arm</b>													
NW Corner		Sycamore Ave - 18" (proposed)	Special	78"	18"		9.8				MA		
		Left Turn Only (proposed)	R3-5L	30"	36"	7.5					MA		
		Left Turn Only (proposed)	R3-5L	30"	36"	7.5					MA		
SW Corner		Veterans Pkwy - 18" (proposed)	Special	84"	18"		10.5				MA		
		Left Turn Only (proposed)	R3-5L	30"	36"	7.5					MA		
NE Corner		Veterans Pkwy - 18" (proposed)	Special	84"	18"		10.5				MA		
		Left Turn Only (proposed)	R3-5L	30"	36"	7.5					MA		
SE Corner		Sycamore Ave - 18" (proposed)	Special	78"	18"		9.8				MA		
		Left Turn Only (proposed)	R3-5L	30"	36"	7.5					MA		
		Left Turn Only (proposed)	R3-5L	30"	36"	7.5					MA		
<b>NH 0100(106)409 - PCN 01V7 (Veterans Pkwy) Total</b>						<b>203.0</b>	<b>112.5</b>	<b>31</b>	<b>11</b>	<b>72</b>			<b>70.8</b>

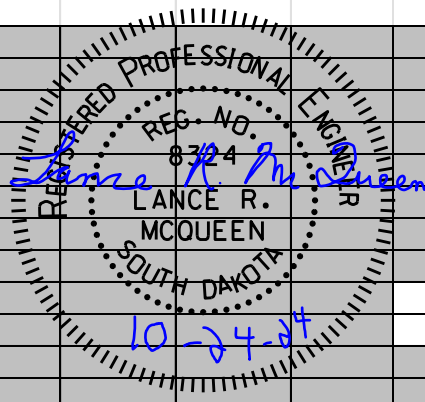


FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(106)409 & P 8042(00)	S6	S32

Plotting Date: 10/24/2024

Permanent Sign Installation Table																	
Alignment		Sign, Delineator and Barricade Data												Post Data			
Station	Offset	Sign Description	Sign Code	Sign Width (in)	Sign Height (in)	Flat Aluminum Sign, Nonremovable Copy High Intensity (IV) (SqFt)	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity (XI) (SqFt)	4"x4" White Delineator with 1.12 Lb/Ft Post (Each)	4"x8" White Delineator with 1.12 Lb/Ft Post (Each)	Type 2 Object Marker Back to Back (Each)	Remove Delineator (Each)	Salvage Traffic Sign (Each)	Remove Sign for Reset (Each)	Reset Sign (Each)	use Street Light (SL), use Power Pole (PP), use Mast Arm (MA), use 1 Post (1P), use 2 Posts (2P), or use 3 Posts (3P)	(F)ixed Base, Breakaway (S)lip Base, or (A)nchor Stub Post	2.0"x2.0" Perforated Tube Post Height (Ft)
<b>P8042(00) - PCN 08DG (Southeastern Avenue)</b>																	
<b>SOUTHEASTERN AVENUE</b>																	
601+90	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1							
602+60	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1							
603+00	Lt	4X8 Delineator, White (proposed)	Special	4"	8"				1								
603+05	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1							
603+50	Lt	4X8 Delineator, White (proposed)	Special	4"	8"				1								
603+90	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1							
604+00	Lt	4X8 Delineator, White (proposed)	Special	4"	8"				1								
604+50	Lt	4X8 Delineator, White (proposed)	Special	4"	8"				1								
605+00	Lt	Merge Left (proposed)	W4-2R	36"	36"		9.0								1P	A	11.7
606+50	Lt	Speed Limit 35 MPH (proposed)	R2-1	24"	30"	5.0									1P	A	9.9
608+10	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1							
612+65	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1							
613+15	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1							
613+20	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1							
613+35	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1							
615+60	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1							
619+55	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1							
624+00	Lt	Speed Limit 35 MPH (proposed)	R2-1	24"	30"	5.0									1P	A	9.9
624+40	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1							
626+25	Lt	4X4 Delineator (existing)	Existing								1						
626+90	Lt	4X4 Delineator (existing)	Existing								1						
627+50	Lt	4X4 Delineator (existing)	Existing								1						
627+80	Lt	Pavement Ends (existing)	Existing									1					
631+00	Lt	Merge Left (existing)	Existing									1					
604+15	Median	One Way Right (proposed)	R6-1R	36"	12"	3.0									1P	A	8.4
604+45	Median	Keep Right (proposed)	R4-7	24"	30"	5.0									SL		
610+05	Median	Keep Right (proposed)	R4-7	24"	30"	5.0									SL		
612+70	Median	Keep Right (proposed)	R4-7	24"	30"	5.0									1P	A	9.9
618+25	Median	One Way Right (proposed)	R6-1R	36"	12"	3.0									1P	A	8.4
619+05	Median	Do Not Enter (proposed)	R5-1	36"	36"		9.0								SL		
619+05	Median	Do Not Enter (proposed)	R5-1	36"	36"		9.0								SL		
619+95	Median	One Way Right (proposed)	R6-1R	36"	12"	3.0									1P	A	8.4
627+85	Median	Keep Right (proposed)	R4-7	24"	30"	5.0									SL		
600+00	Rt	Divided Highway	W6-1	36"	36"		9.0								1P	A	15.2
601+90	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1							
603+00	Rt	4X4 Delineator, White (proposed)	Special	4"	4"			1									
603+50	Rt	4X4 Delineator, White (proposed)	Special	4"	4"			1									
603+80	Rt	4X4 Delineator, White (proposed)	Special	4"	4"			1									
604+05	Rt	26964 (existing)	Existing									1	1		1P	A	5.4
604+50	Rt	4X4 Delineator, White (proposed)	Special	4"	4"			1									
605+00	Rt	Speed Limit 35 MPH (proposed)	R2-1	24"	30"	5.0									1P	A	9.9
610+10	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1							
613+15	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1							
615+50	Rt	Speed Limit 35 MPH (proposed)	R2-1	24"	30"	5.0									1P	A	9.9
624+60	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1							
<b>P8042(00) - PCN 08DG (Southeastern Avenue) Total</b>						<b>49.0</b>	<b>36.0</b>	<b>4</b>	<b>4</b>	<b>16</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>			<b>107.0</b>

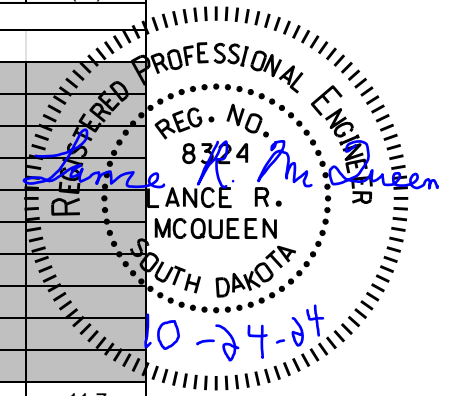


FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(106)409 & P 8042(00)	S7	S32

Plotting Date: 10/24/2024

Permanent Sign Installation Table													
Alignment		Sign, Delineator and Barricade Data							Post Data				
Station	Offset	Sign Description	Sign Code	Sign Width (in)	Sign Height (in)	Flat Aluminum Sign, Nonremovable Copy High Intensity (IV) (SqFt)	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity (XI) (SqFt)	4"x4" White Delineator with 1.12 Lb/Ft Post (Each)	4"x8" White Delineator with 1.12 Lb/Ft Post (Each)	Type 2 Object Marker Back to Back (Each)	use Street Light (SL), use Power Pole (PP), use Mast Arm (MA), use 1 Post (1P), use 2 Posts (2P), or use 3 Posts (3P)	(F)ixed Base, Breakaway (S)lip Base, or (A)nchor Stub Post	2.0"x2.0" Perforated Tube Post Height (Ft)
<b>P8042(00) - PCN 08DH (Sycamore Avenue)</b>													
<b>SYCAMORE AVENUE</b>													
700+85	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1			
701+05	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1			
702+00	Lt	4X8 Delineator, White (proposed)	Special	4"	8"				1				
702+15	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1			
702+17	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1			
702+60	Lt	4X8 Delineator, White (proposed)	Special	4"	8"				1				
702+65	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1			
702+70	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1			
703+00	Lt	4X8 Delineator, White (proposed)	Special	4"	8"				1				
703+50	Lt	4X8 Delineator, White (proposed)	Special	4"	8"				1				
704+00	Lt	Merge Left (proposed)	W4-2R	36"	36"		9.0				1P	A	11.7
708+50	Lt	Speed Limit 35 MPH (proposed)	R2-1	24"	30"	5.0					1P	A	9.9
716+50	Lt	4X4 Delineator, White (proposed)	Special	4"	4"			1					
717+00	Lt	4X4 Delineator, White (proposed)	Special	4"	4"			1					
717+50	Lt	4X4 Delineator, White (proposed)	Special	4"	4"			1					
718+00	Lt	4X4 Delineator, White (proposed)	Special	4"	4"			1					
718+50	Lt	4X4 Delineator, White (proposed)	Special	4"	4"			1					
721+90	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1			
722+30	Lt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1			
725+00	Lt	Divided Highway	W6-1	36"	36"		9.0				1P	A	15.2
736+00	Lt	Speed Limit 35 MPH (proposed)	R2-1	24"	30"	5.0					1P	A	13.4
704+00	Median	Keep Right (proposed)	R4-7	24"	30"	5.0					SL		
710+20	Median	Keep Right (proposed)	R4-7	24"	30"	5.0					1P	A	9.9
712+70	Median	Keep Right (proposed)	R4-7	24"	30"	5.0					1P	A	9.9
716+75	Median	One Way Right (proposed)	R6-1R	36"	12"	3.0					1P	A	8.4
718+80	Median	Keep Right (proposed)	R4-7	24"	30"	5.0					SL		
699+50	Rt	Divided Highway	W6-1	36"	36"		9.0				1P	A	15.2
700+85	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1			
701+05	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1			
702+00	Rt	4X4 Delineator, White (proposed)	Special	4"	4"			1					
702+50	Rt	4X4 Delineator, White (proposed)	Special	4"	4"			1					
702+60	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1			
703+05	Rt	4X4 Delineator, White (proposed)	Special	4"	4"			1					
703+50	Rt	4X4 Delineator, White (proposed)	Special	4"	4"			1					
704+00	Rt	Speed Limit 35 MPH (proposed)	R2-1	24"	30"	5.0					1P	A	9.9
714+50	Rt	Speed Limit 35 MPH (proposed)	R2-1	24"	30"	5.0					1P	A	9.9
716+00	Rt	Merge Left (proposed)	W4-2R	36"	36"		9.0				1P	A	11.7
716+50	Rt	4X4 Delineator, White (proposed)	Special	4"	4"				1				
717+00	Rt	4X4 Delineator, White (proposed)	Special	4"	4"				1				
717+50	Rt	4X8 Delineator, White (proposed)	Special	4"	8"				1				
718+00	Rt	4X8 Delineator, White (proposed)	Special	4"	8"				1				
718+50	Rt	4X8 Delineator, White (proposed)	Special	4"	8"				1				
722+40	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1			
722+85	Rt	Type 2 Object Marker, Yellow (proposed)	OM2-2V	6"	12"					1			
<b>P8042(00) - PCN 08DH (Sycamore Avenue) Total</b>						<b>43.0</b>	<b>36.0</b>	<b>9</b>	<b>9</b>	<b>13</b>			<b>125.1</b>



# Permanent Signing Details

FOR BIDDING PURPOSES ONLY

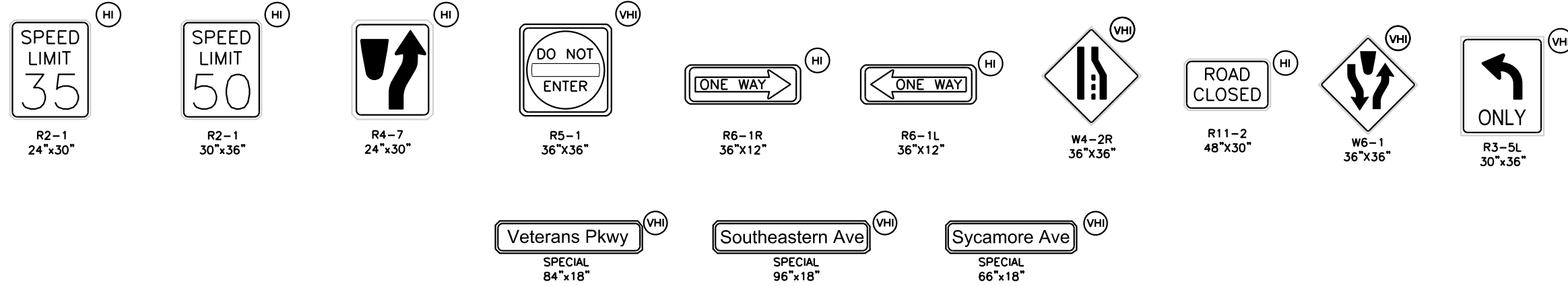
STATE OF SOUTH DAKOTA	PROJECT NH 0100(106)409 & P 8042(00)	SHEET S8	TOTAL SHEETS S32
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FILE: ...Section S\S08.dgn  
PLOT DATE: 10-24-2024

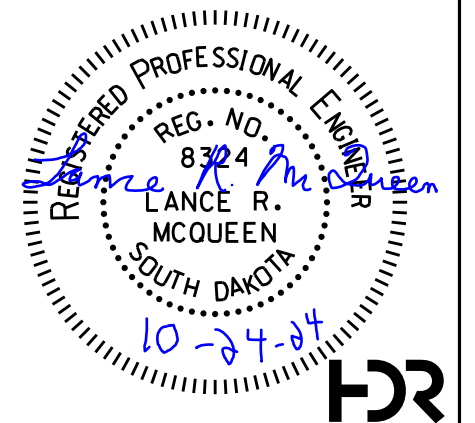
REV DATE:  
INITIAL:

**LEGEND**

- (HI) HIGH INTENSITY (TYPE IV SHEETING PER ASTM D4956)  
(FLAT ALUMINUM SIGN, NON-REMOVABLE COPY HIGH INTENSITY)
- (VHI) SUPER/VERY HIGH INTENSITY (TYPE XI SHEETING PER ASTM D4956)  
(FLAT ALUMINUM SIGN, NON-REMOVABLE COPY SUPER/VERY HIGH INTENSITY)



SEE DETAILS AT END  
OF SECTION S  
FOR SIGN DETAILS





FOR BIDDING PURPOSES ONLY

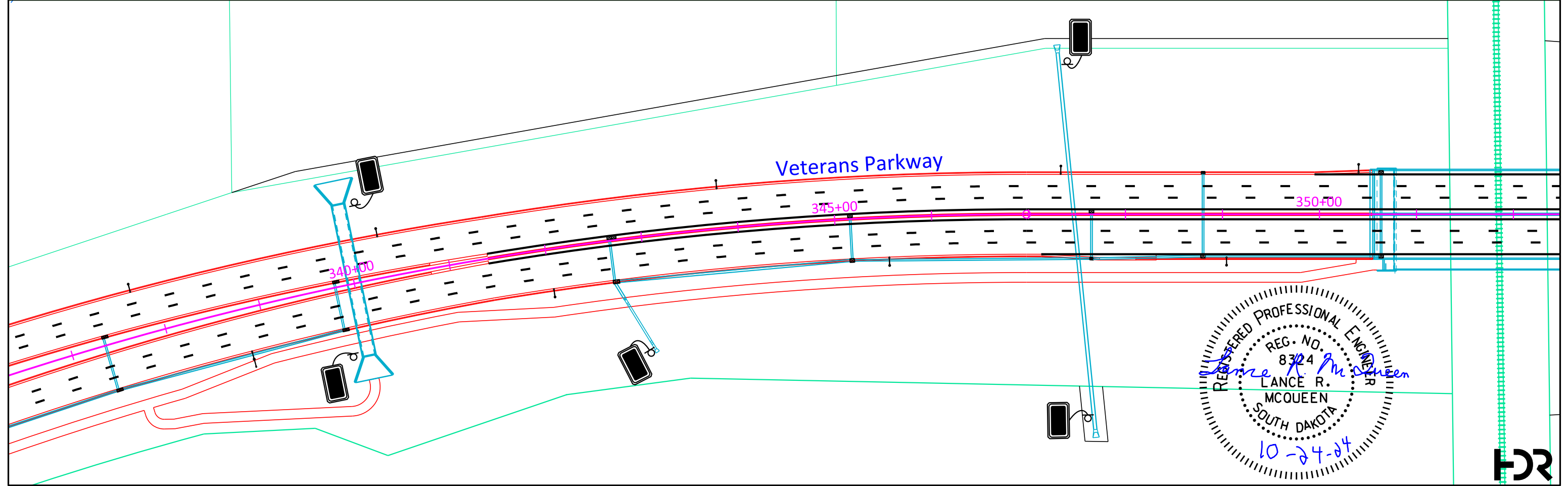
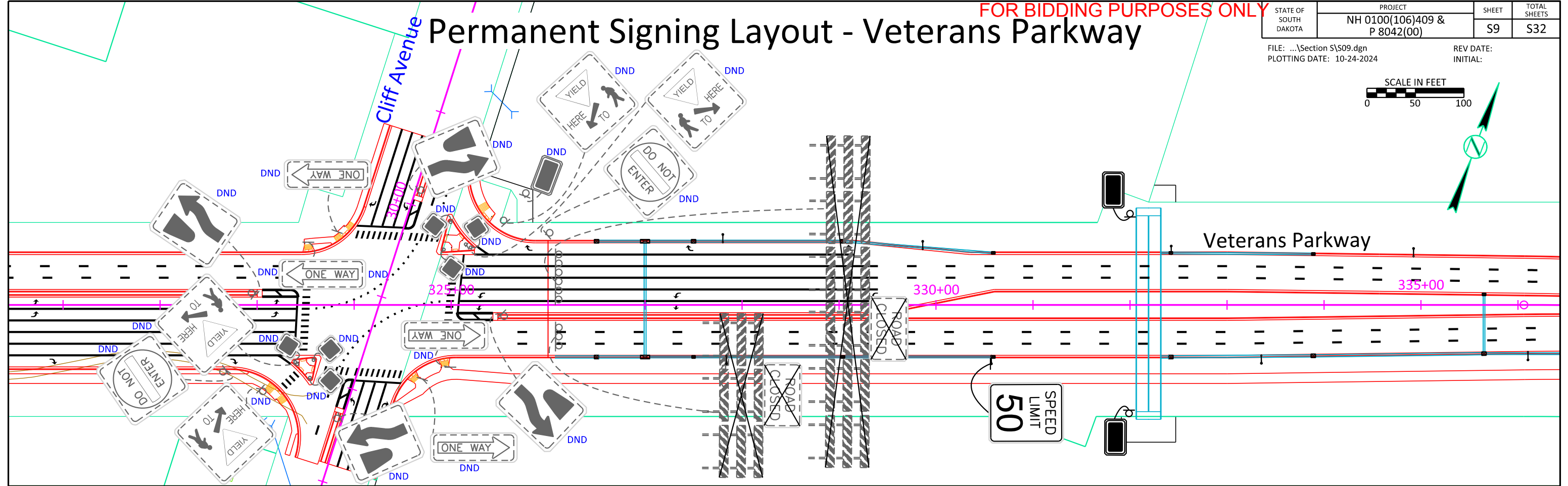
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(106)409 & P 8042(00)	S9	S32

FILE: ...Section S\S09.dgn  
PLOTTING DATE: 10-24-2024

REV DATE:  
INITIAL:



# Permanent Signing Layout - Veterans Parkway

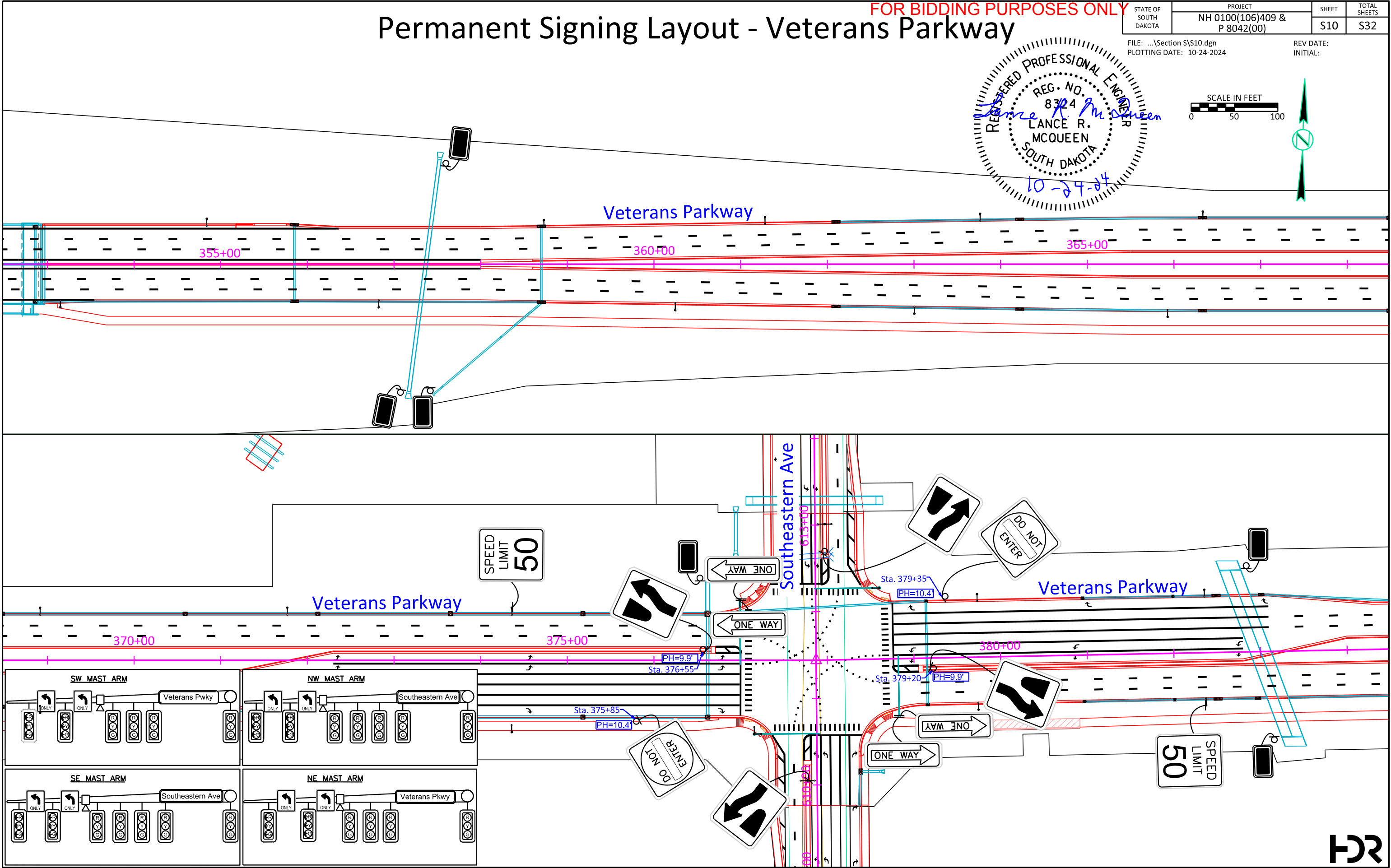
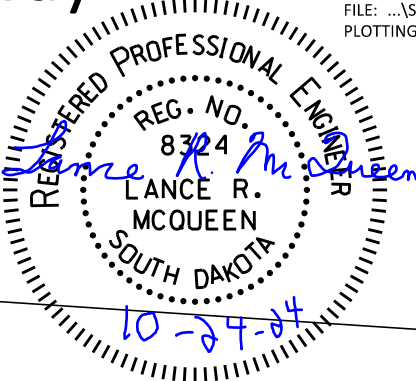


# Permanent Signing Layout - Veterans Parkway

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT NH 0100(106)409 & P 8042(00)	SHEET S10	TOTAL SHEETS S32
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FILE: ...Section 5\S10.dgn  
PLOT DATE: 10-24-2024  
REV DATE: INITIAL:



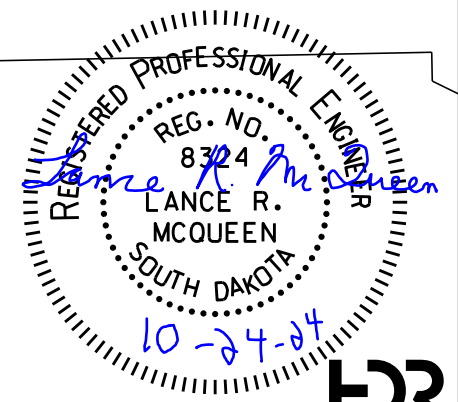
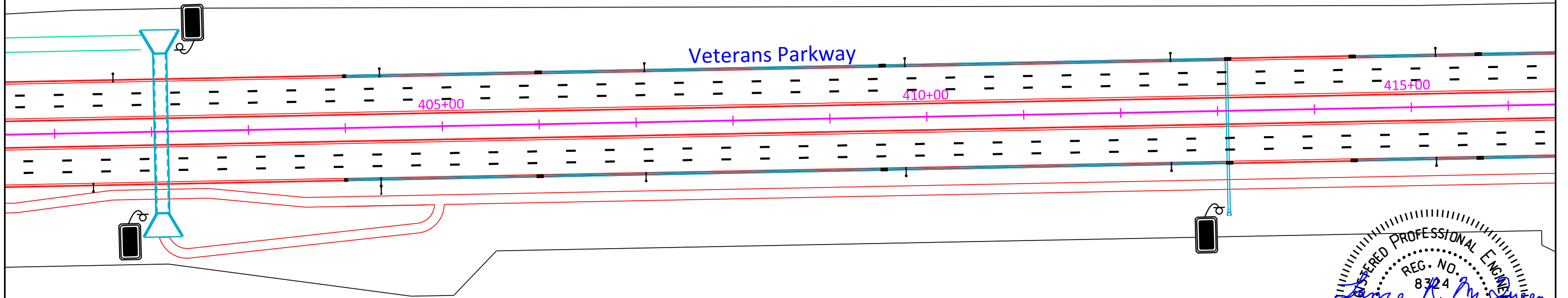
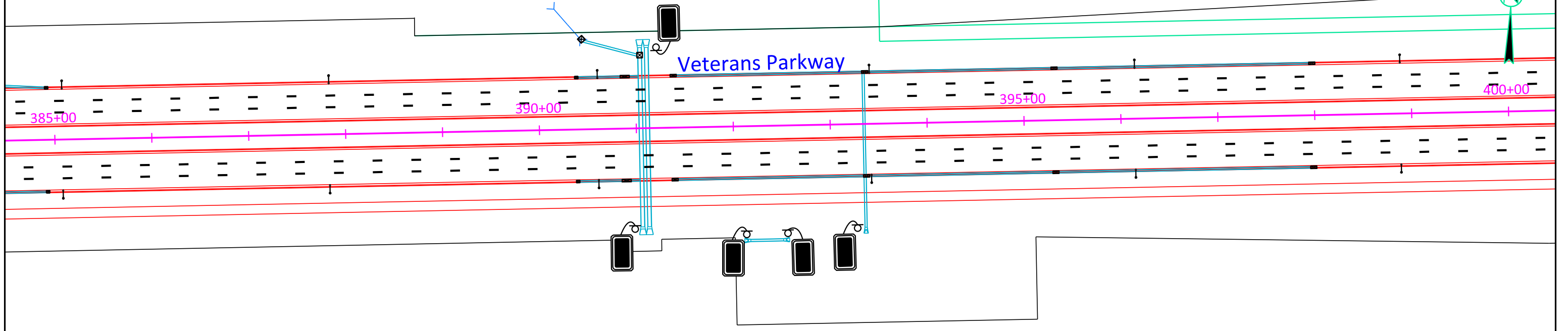
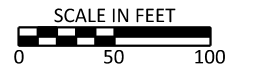
# Permanent Signing Layout - Veterans Parkway

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(106)409 & P 8042(00)	S11	S32

FILE: ...Section S\S11.dgn  
PLOTING DATE: 10-24-2024

REV DATE:  
INITIAL:

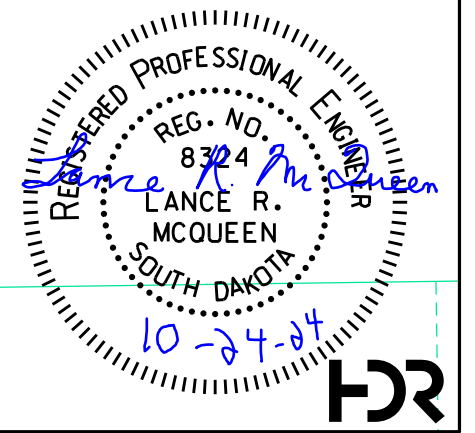
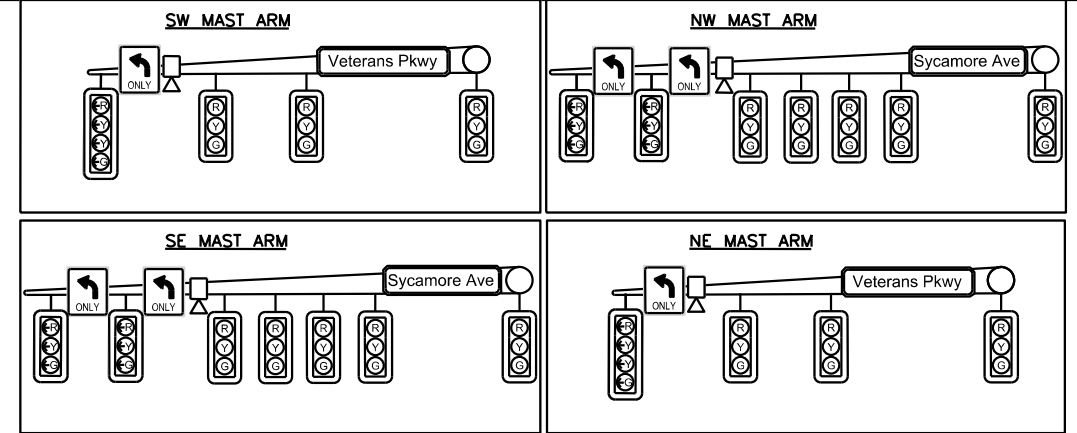
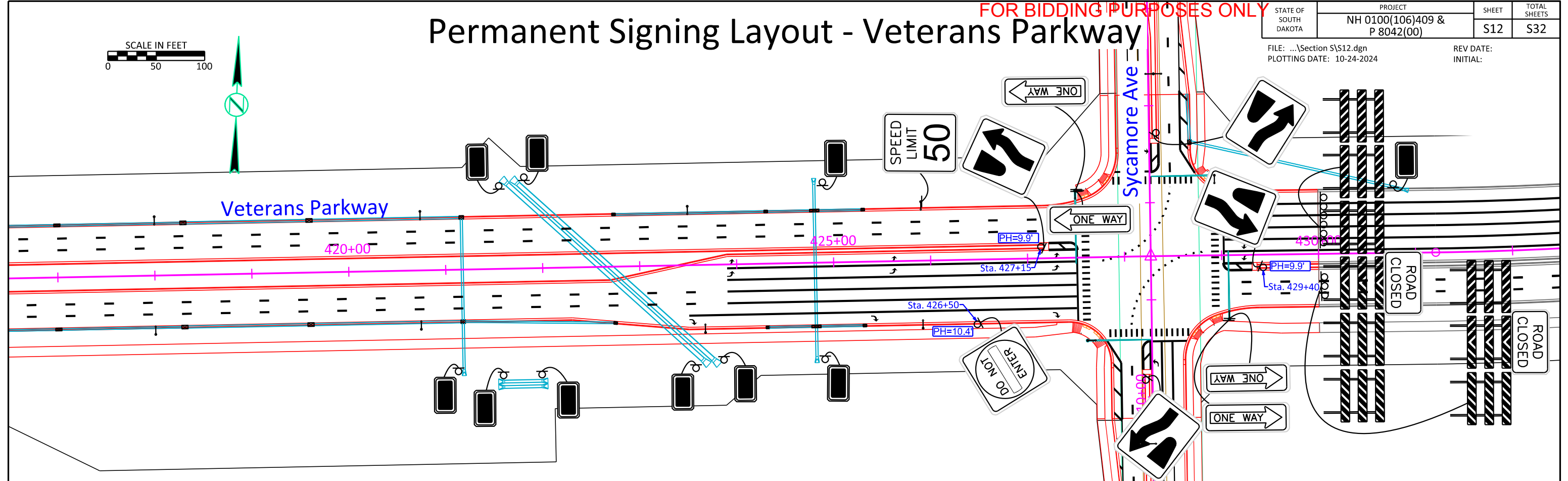


# Permanent Signing Layout - Veterans Parkway

FOR BIDDING PURPOSES ONLY



STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(106)409 & P 8042(00)	S12	S32
FILE: ...Section S\S12.dgn		REV DATE:	
PLOTTING DATE: 10-24-2024		INITIAL:	



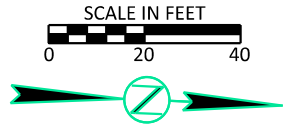


# Permanent Signing Layout - Southeastern Avenue

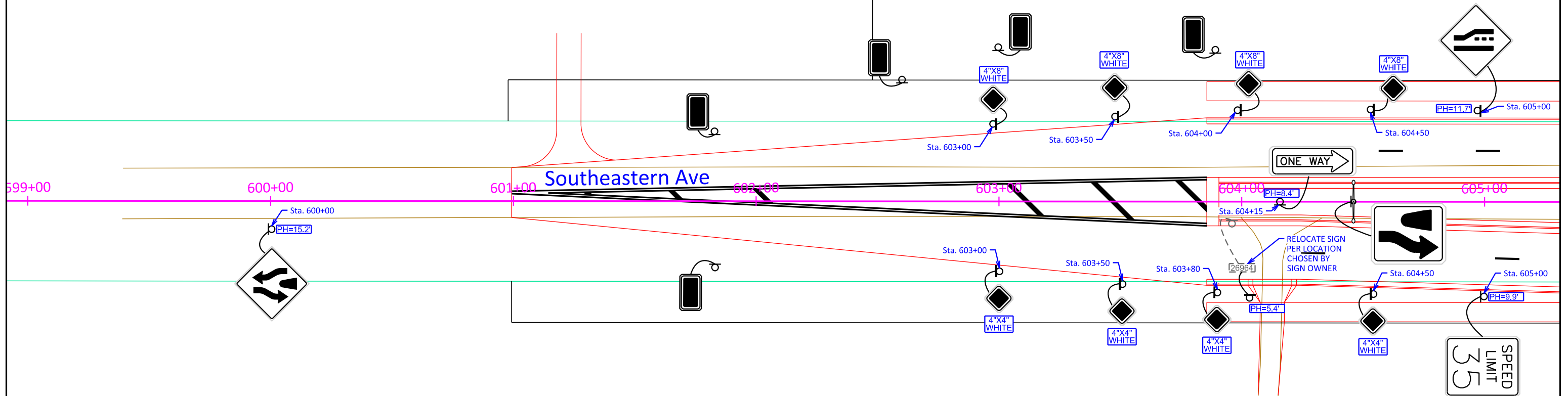
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT NH 0100(106)409 & P 8042(00)	SHEET S13	TOTAL SHEETS S32
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FILE: ...Section 5\S13.dgn  
PLOT DATE: 10-24-2024  
REV DATE: INITIAL:



SIGNING LEGEND		
SIGN	PROPOSED TRAFFIC SIGN	PROPOSED DELINEATOR. COLOR AND SIZE SPECIFIED ON THE PLAN. WHERE INSTALLED ON ISLANDS, INSTALLED AT RADIUS POINTS OF ISLAND.
SIGN	EXISTING TRAFFIC SIGN TO BE REMOVED FOR RESET AND RESET	PROPOSED TYPE 2 OBJECT MARKER. INSTALLED AT FLARED END OF STORM SEWER PIPE AND ENDS OF STRUCTURAL WALLS.
SIGN	EXISTING TRAFFIC SIGN TO BE REMOVED	
PH	POST HEIGHT	
DND	DO NOT DISTURB EXISTING SIGN	
OTR	SIGN OWNER TO RELOCATE SIGN	
2SMBB	2 SIGNS MOUNTED BACK-TO-BACK	
POST	EXISTING TRAFFIC SIGN ON POST	
POST	PROPOSED TRAFFIC SIGN ON POST	
POST	PROPOSED TRAFFIC SIGN ON DOUBLE POST	
LIGHT POLE	EXISTING TRAFFIC SIGN ON LIGHT POLE	
LIGHT POLE	PROPOSED TRAFFIC SIGN ON LIGHT POLE	
POWER POLE	EXISTING TRAFFIC SIGN ON POWER POLE	
MAST ARM	EXISTING TRAFFIC SIGN ON MAST ARM	
MAST ARM	PROPOSED TRAFFIC SIGN ON MAST ARM	



REGISTERED PROFESSIONAL ENGINEER  
 REG. NO. 8324  
*Lance R. McQueen*  
 LANCE R. MCQUEEN  
 SOUTH DAKOTA  
 10-24-24

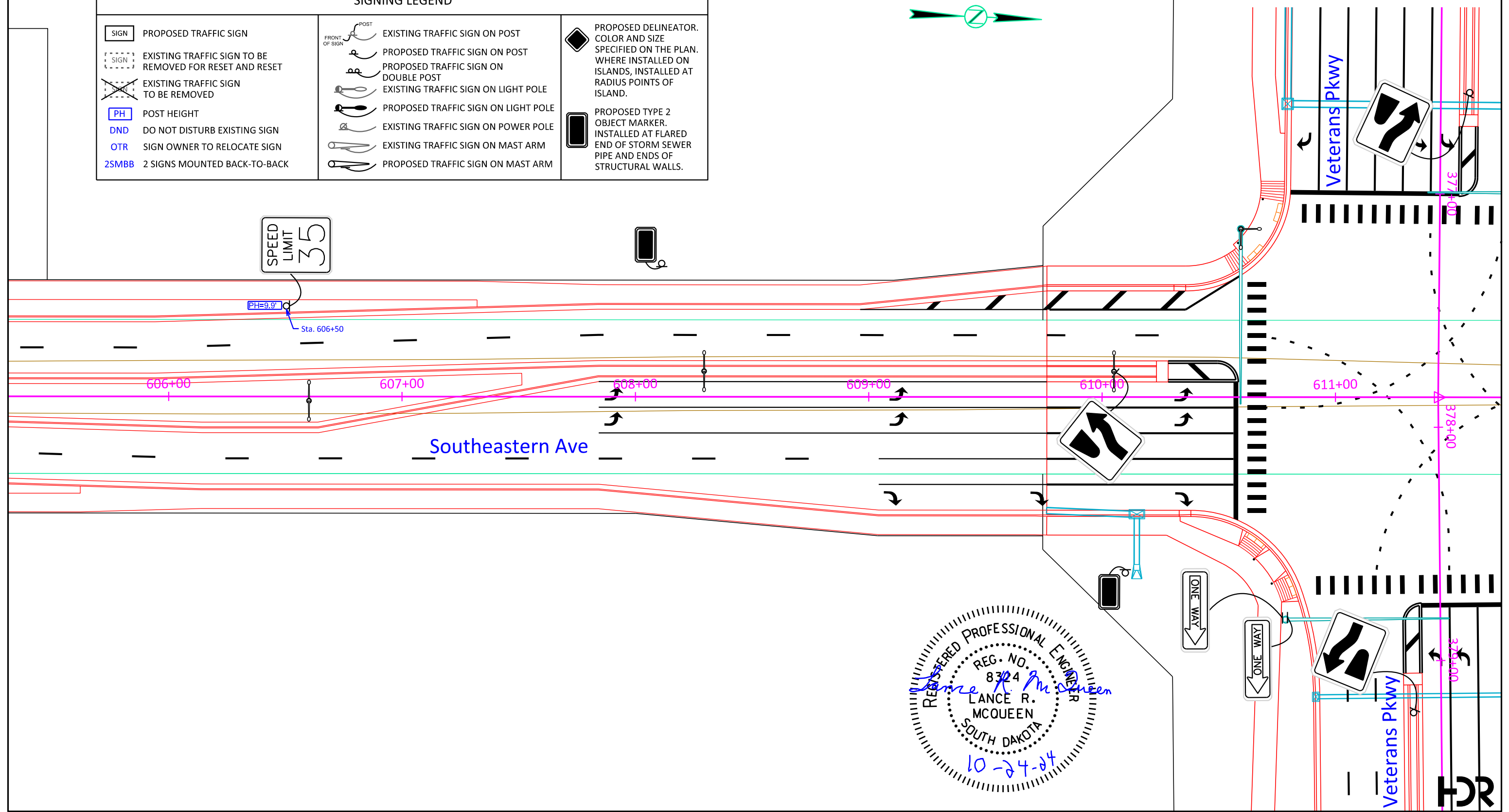
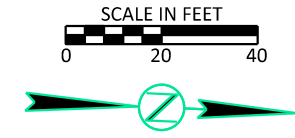


# Permanent Signing Layout - Southeastern Avenue

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT NH 0100(106)409 & P 8042(00)	SHEET S14	TOTAL SHEETS S32
FILE: ...Section S\S14.dgn		REV DATE: INITIAL:	
PLOTING DATE: 10-24-2024			

SIGNING LEGEND		
	PROPOSED TRAFFIC SIGN	 PROPOSED DELINEATOR. COLOR AND SIZE SPECIFIED ON THE PLAN. WHERE INSTALLED ON ISLANDS, INSTALLED AT RADIUS POINTS OF ISLAND.
	EXISTING TRAFFIC SIGN TO BE REMOVED FOR RESET AND RESET	
	EXISTING TRAFFIC SIGN TO BE REMOVED	
	POST HEIGHT	 PROPOSED TYPE 2 OBJECT MARKER. INSTALLED AT FLARED END OF STORM SEWER PIPE AND ENDS OF STRUCTURAL WALLS.
	DO NOT DISTURB EXISTING SIGN	
	SIGN OWNER TO RELOCATE SIGN	
	2 SIGNS MOUNTED BACK-TO-BACK	
	EXISTING TRAFFIC SIGN ON POST	
	PROPOSED TRAFFIC SIGN ON POST	
	PROPOSED TRAFFIC SIGN ON DOUBLE POST	
	EXISTING TRAFFIC SIGN ON LIGHT POLE	
	PROPOSED TRAFFIC SIGN ON LIGHT POLE	
	EXISTING TRAFFIC SIGN ON POWER POLE	
	EXISTING TRAFFIC SIGN ON MAST ARM	
	PROPOSED TRAFFIC SIGN ON MAST ARM	



REGISTERED PROFESSIONAL ENGINEER  
 REG. NO. 8324  
 Lance R. McQueen  
 SOUTH DAKOTA  
 10-24-24



# Permanent Signing Layout- Southeastern Avenue

FOR BIDDING PURPOSES ONLY

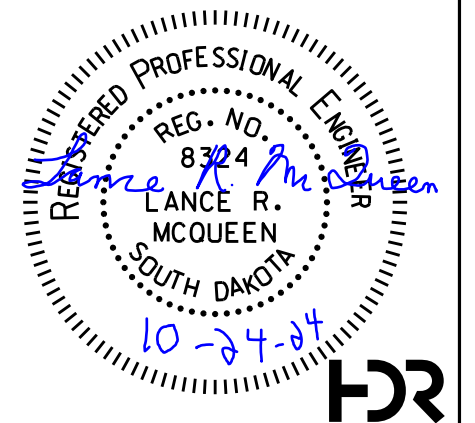
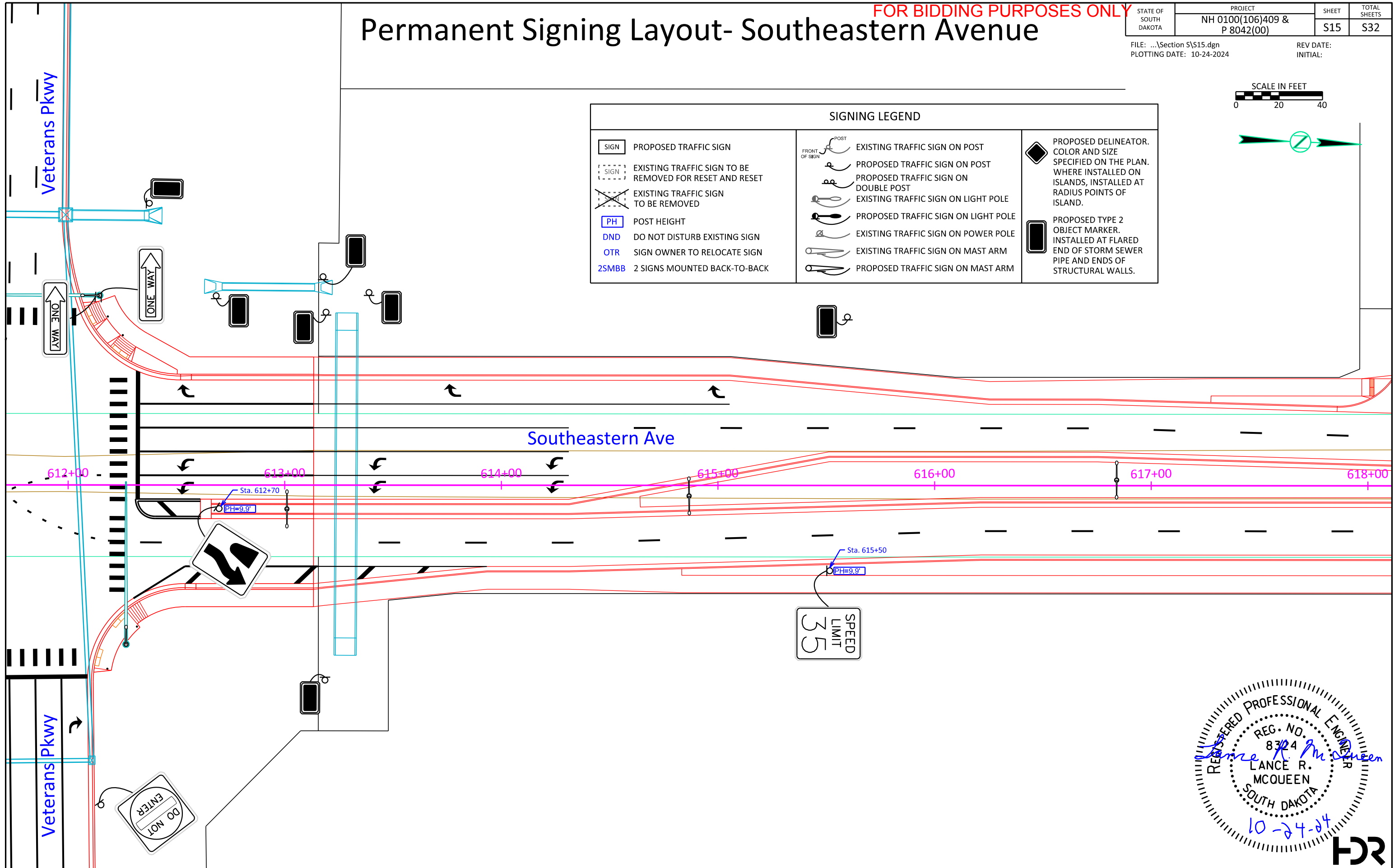
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(106)409 & P 8042(00)	S15	S32

FILE: ...Section S\S15.dgn  
PLOTING DATE: 10-24-2024

REV DATE:  
INITIAL:



SIGNING LEGEND	
SIGN	PROPOSED TRAFFIC SIGN
	EXISTING TRAFFIC SIGN TO BE REMOVED FOR RESET AND RESET
	EXISTING TRAFFIC SIGN TO BE REMOVED
PH	POST HEIGHT
DND	DO NOT DISTURB EXISTING SIGN
OTR	SIGN OWNER TO RELOCATE SIGN
2SMBB	2 SIGNS MOUNTED BACK-TO-BACK
	EXISTING TRAFFIC SIGN ON POST
	PROPOSED TRAFFIC SIGN ON POST
	PROPOSED TRAFFIC SIGN ON DOUBLE POST
	EXISTING TRAFFIC SIGN ON LIGHT POLE
	PROPOSED TRAFFIC SIGN ON LIGHT POLE
	EXISTING TRAFFIC SIGN ON POWER POLE
	EXISTING TRAFFIC SIGN ON MAST ARM
	PROPOSED TRAFFIC SIGN ON MAST ARM
	PROPOSED DELINEATOR. COLOR AND SIZE SPECIFIED ON THE PLAN. WHERE INSTALLED ON ISLANDS, INSTALLED AT RADIUS POINTS OF ISLAND.
	PROPOSED TYPE 2 OBJECT MARKER. INSTALLED AT FLARED END OF STORM SEWER PIPE AND ENDS OF STRUCTURAL WALLS.



# Permanent Signing Layout - Southeastern Avenue

FOR BIDDING PURPOSES ONLY

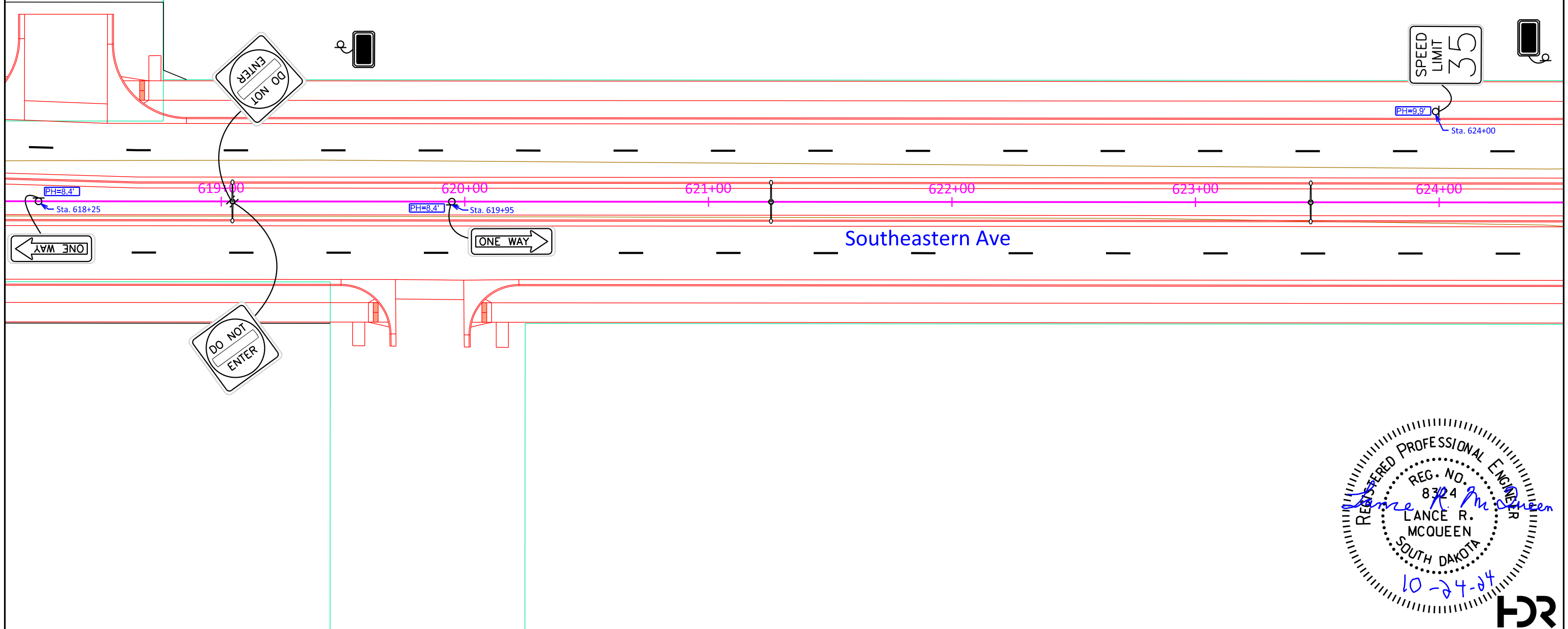
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(106)409 & P 8042(00)	S16	S32

FILE: ...Section 5\S16.dgn  
PLOTING DATE: 10-24-2024

REV DATE:  
INITIAL:



SIGNING LEGEND		
SIGN	PROPOSED TRAFFIC SIGN	PROPOSED DELINEATOR. COLOR AND SIZE SPECIFIED ON THE PLAN. WHERE INSTALLED ON ISLANDS, INSTALLED AT RADIUS POINTS OF ISLAND.  PROPOSED TYPE 2 OBJECT MARKER. INSTALLED AT FLARED END OF STORM SEWER PIPE AND ENDS OF STRUCTURAL WALLS.
	EXISTING TRAFFIC SIGN TO BE REMOVED FOR RESET AND RESET	
	EXISTING TRAFFIC SIGN TO BE REMOVED	
	POST HEIGHT	
	DO NOT DISTURB EXISTING SIGN	
	SIGN OWNER TO RELOCATE SIGN	
	2 SIGNS MOUNTED BACK-TO-BACK	
	EXISTING TRAFFIC SIGN ON POST	
	PROPOSED TRAFFIC SIGN ON POST	
	PROPOSED TRAFFIC SIGN ON DOUBLE POST	
	EXISTING TRAFFIC SIGN ON LIGHT POLE	
	PROPOSED TRAFFIC SIGN ON LIGHT POLE	
	EXISTING TRAFFIC SIGN ON POWER POLE	
	EXISTING TRAFFIC SIGN ON MAST ARM	
	PROPOSED TRAFFIC SIGN ON MAST ARM	



REGISTERED PROFESSIONAL ENGINEER  
 REG. NO. 8324  
*Lance R. McQueen*  
 LANCE R. MCQUEEN  
 SOUTH DAKOTA  
 10-24-24



# Permanent Signing Layout - Southeastern Avenue

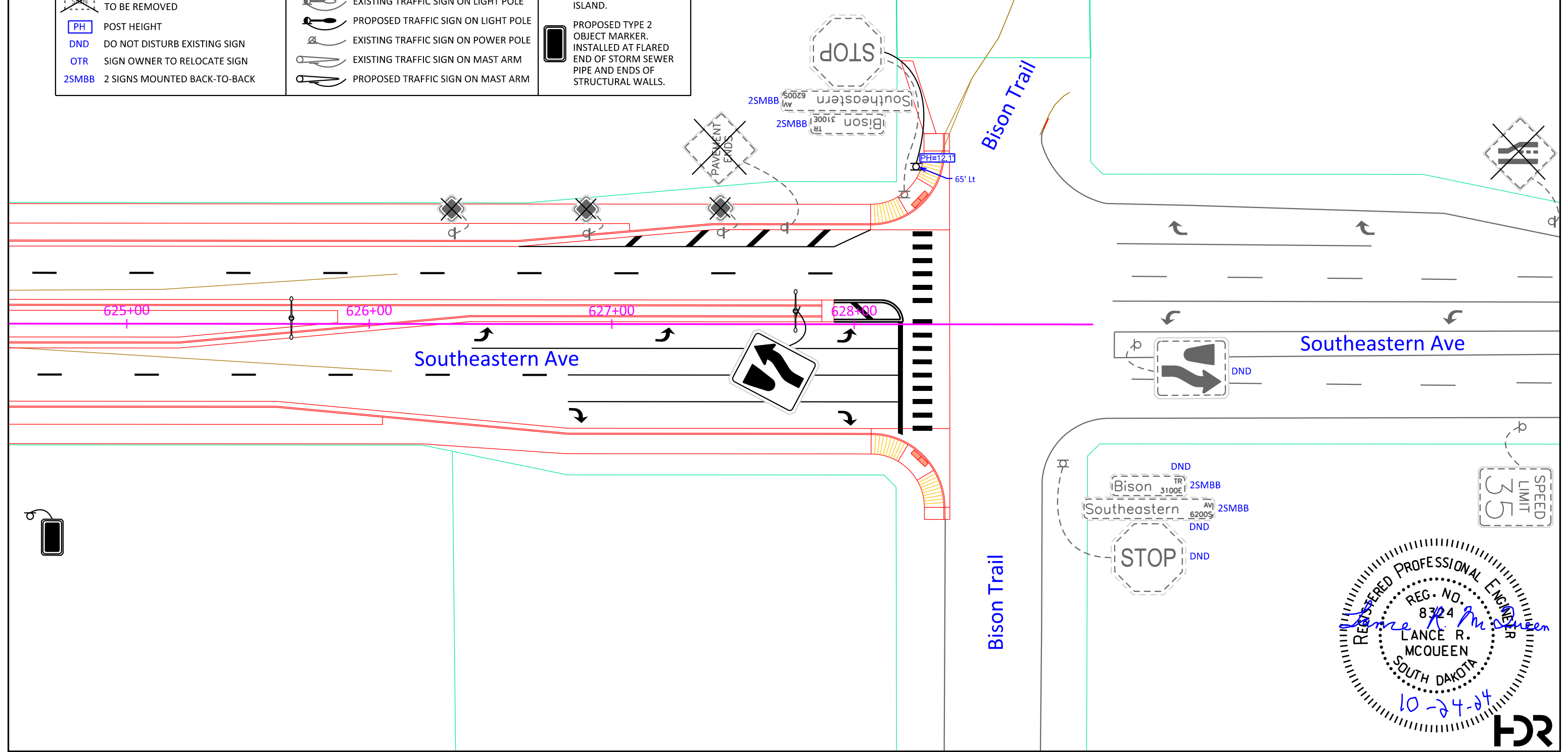
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT NH 0100(106)409 & P 8042(00)	SHEET S17	TOTAL SHEETS S32
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FILE: ...Section S\S17.dgn PLOTTING DATE: 10-24-2024  
REV DATE: INITIAL:



SIGNING LEGEND		
PROPOSED TRAFFIC SIGN	EXISTING TRAFFIC SIGN ON POST	PROPOSED DELINEATOR. COLOR AND SIZE SPECIFIED ON THE PLAN. WHERE INSTALLED ON ISLANDS, INSTALLED AT RADIUS POINTS OF ISLAND.
EXISTING TRAFFIC SIGN TO BE REMOVED FOR RESET AND RESET	PROPOSED TRAFFIC SIGN ON DOUBLE POST	PROPOSED TYPE 2 OBJECT MARKER. INSTALLED AT FLARED END OF STORM SEWER PIPE AND ENDS OF STRUCTURAL WALLS.
EXISTING TRAFFIC SIGN TO BE REMOVED	PROPOSED TRAFFIC SIGN ON LIGHT POLE	
POST HEIGHT	EXISTING TRAFFIC SIGN ON LIGHT POLE	
DO NOT DISTURB EXISTING SIGN	EXISTING TRAFFIC SIGN ON POWER POLE	
SIGN OWNER TO RELOCATE SIGN	EXISTING TRAFFIC SIGN ON MAST ARM	
2 SIGNS MOUNTED BACK-TO-BACK	PROPOSED TRAFFIC SIGN ON MAST ARM	



REGISTERED PROFESSIONAL ENGINEER  
 REG. NO. 8324  
 Lance R. McQueen  
 SOUTH DAKOTA  
 10-24-24

SPEED LIMIT 35



# Permanent Signing Layout - Sycamore Avenue

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(106)409 & P 8042(00)	S18	S32

FILE: ...Section 5\S18.dgn  
 PLOTTING DATE: 10-24-2024  
 REV DATE: INITIAL:

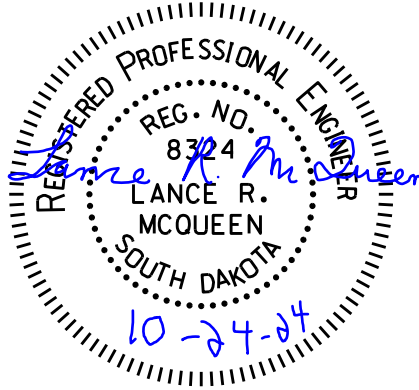
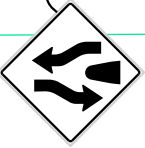


SIGNING LEGEND		
SIGN	PROPOSED TRAFFIC SIGN	PROPOSED DELINEATOR. COLOR AND SIZE SPECIFIED ON THE PLAN. WHERE INSTALLED ON ISLANDS, INSTALLED AT RADIUS POINTS OF ISLAND.
	EXISTING TRAFFIC SIGN TO BE REMOVED FOR RESET AND RESET	
	EXISTING TRAFFIC SIGN TO BE REMOVED	
	POST HEIGHT	PROPOSED TYPE 2 OBJECT MARKER. INSTALLED AT FLARED END OF STORM SEWER PIPE AND ENDS OF STRUCTURAL WALLS.
	DO NOT DISTURB EXISTING SIGN	
	SIGN OWNER TO RELOCATE SIGN	
	2 SIGNS MOUNTED BACK-TO-BACK	
	EXISTING TRAFFIC SIGN ON POST	
	PROPOSED TRAFFIC SIGN ON POST	PROPOSED TRAFFIC SIGN ON DOUBLE POST
	EXISTING TRAFFIC SIGN ON LIGHT POLE	
	PROPOSED TRAFFIC SIGN ON LIGHT POLE	
	EXISTING TRAFFIC SIGN ON POWER POLE	
	EXISTING TRAFFIC SIGN ON MAST ARM	
	PROPOSED TRAFFIC SIGN ON MAST ARM	

Sycamore Ave

700+00

Sta. 699+50  
 PH=15.2'



# Permanent Signing Layout - Sycamore Avenue

FOR BIDDING PURPOSES ONLY

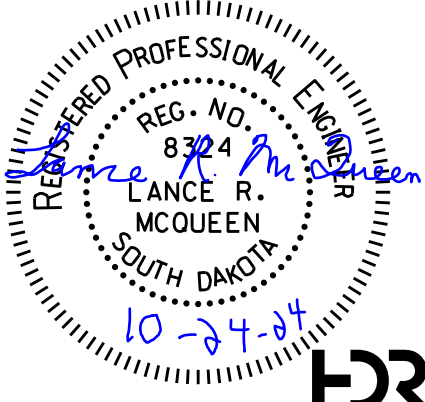
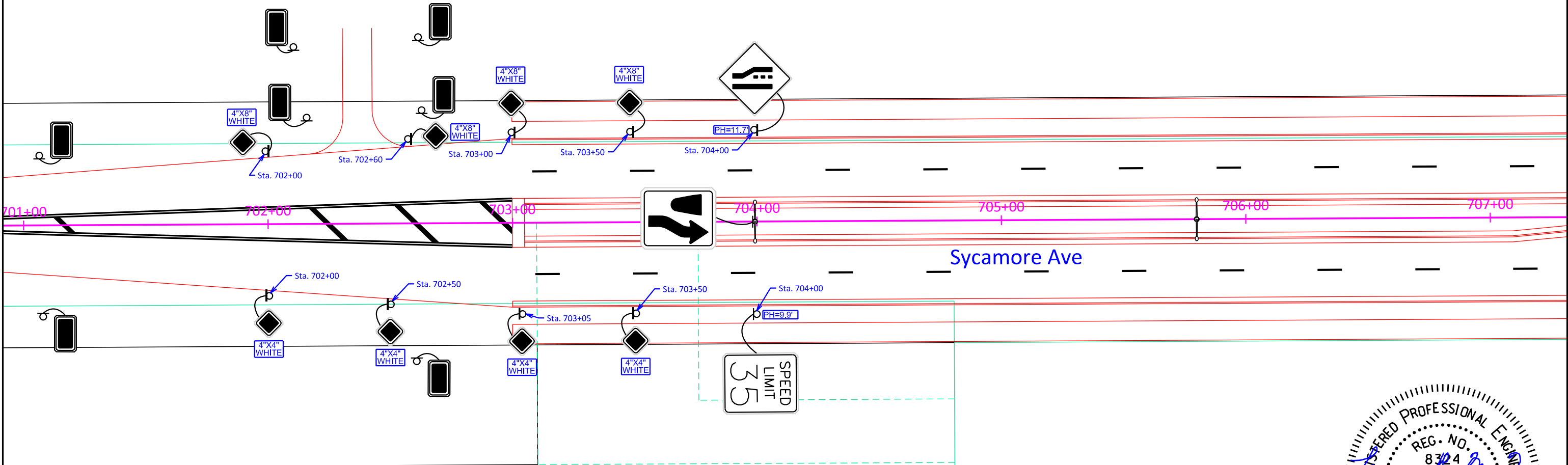
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(106)409 & P 8042(00)	S19	S32

FILE: ...Section S\S19.dgn  
PLOTING DATE: 10-24-2024

REV DATE:  
INITIAL:



SIGNING LEGEND		
SIGN	PROPOSED TRAFFIC SIGN	PROPOSED DELINEATOR. COLOR AND SIZE SPECIFIED ON THE PLAN. WHERE INSTALLED ON ISLANDS, INSTALLED AT RADIUS POINTS OF ISLAND.
	EXISTING TRAFFIC SIGN TO BE REMOVED FOR RESET AND RESET	
	EXISTING TRAFFIC SIGN TO BE REMOVED	PROPOSED TYPE 2 OBJECT MARKER. INSTALLED AT FLARED END OF STORM SEWER PIPE AND ENDS OF STRUCTURAL WALLS.
	POST HEIGHT	
	DO NOT DISTURB EXISTING SIGN	
	SIGN OWNER TO RELOCATE SIGN	
	2 SIGNS MOUNTED BACK-TO-BACK	
	EXISTING TRAFFIC SIGN ON POST	
	PROPOSED TRAFFIC SIGN ON POST	
	PROPOSED TRAFFIC SIGN ON DOUBLE POST	
	EXISTING TRAFFIC SIGN ON LIGHT POLE	
	PROPOSED TRAFFIC SIGN ON LIGHT POLE	
	EXISTING TRAFFIC SIGN ON POWER POLE	
	EXISTING TRAFFIC SIGN ON MAST ARM	
	PROPOSED TRAFFIC SIGN ON MAST ARM	



# Permanent Signing Layout - Sycamore Avenue

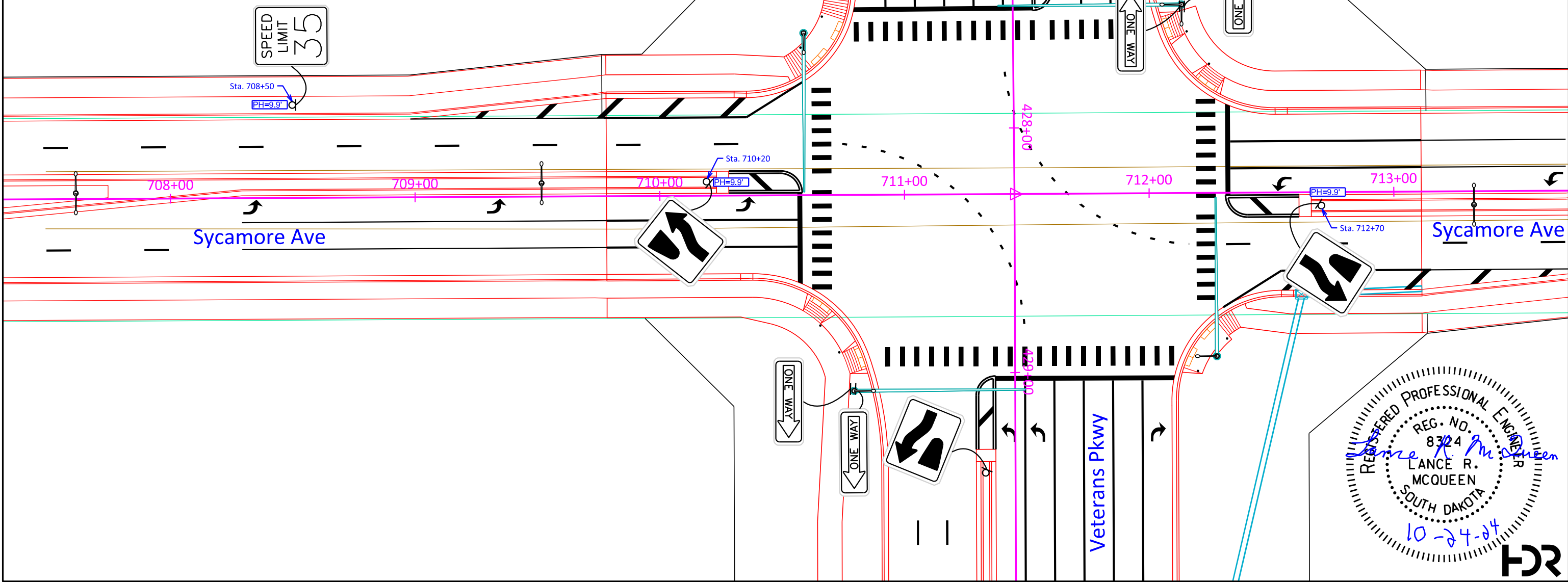
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT NH 0100(106)409 & P 8042(00)	SHEET S20	TOTAL SHEETS S32
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FILE: ...Section S\S20.dgn  
PLOT DATE: 10-24-2024  
REV DATE: INITIAL:



SIGNING LEGEND		
SIGN	PROPOSED TRAFFIC SIGN	PROPOSED DELINEATOR. COLOR AND SIZE SPECIFIED ON THE PLAN. WHERE INSTALLED ON ISLANDS, INSTALLED AT RADIUS POINTS OF ISLAND.  PROPOSED TYPE 2 OBJECT MARKER. INSTALLED AT FLARED END OF STORM SEWER PIPE AND ENDS OF STRUCTURAL WALLS.
	EXISTING TRAFFIC SIGN TO BE REMOVED FOR RESET AND RESET	
	EXISTING TRAFFIC SIGN TO BE REMOVED	
	POST HEIGHT	
	DO NOT DISTURB EXISTING SIGN	
	SIGN OWNER TO RELOCATE SIGN	
	2 SIGNS MOUNTED BACK-TO-BACK	
	EXISTING TRAFFIC SIGN ON POST	
	PROPOSED TRAFFIC SIGN ON POST	
	PROPOSED TRAFFIC SIGN ON DOUBLE POST	
	EXISTING TRAFFIC SIGN ON LIGHT POLE	
	PROPOSED TRAFFIC SIGN ON LIGHT POLE	
	EXISTING TRAFFIC SIGN ON POWER POLE	
	EXISTING TRAFFIC SIGN ON MAST ARM	
	PROPOSED TRAFFIC SIGN ON MAST ARM	



REGISTERED PROFESSIONAL ENGINEER  
 REG. NO. 8324  
*Lance R. McQueen*  
 LANCE R. MCQUEEN  
 SOUTH DAKOTA  
 10-24-24



# Permanent Signing Layout - Sycamore Avenue

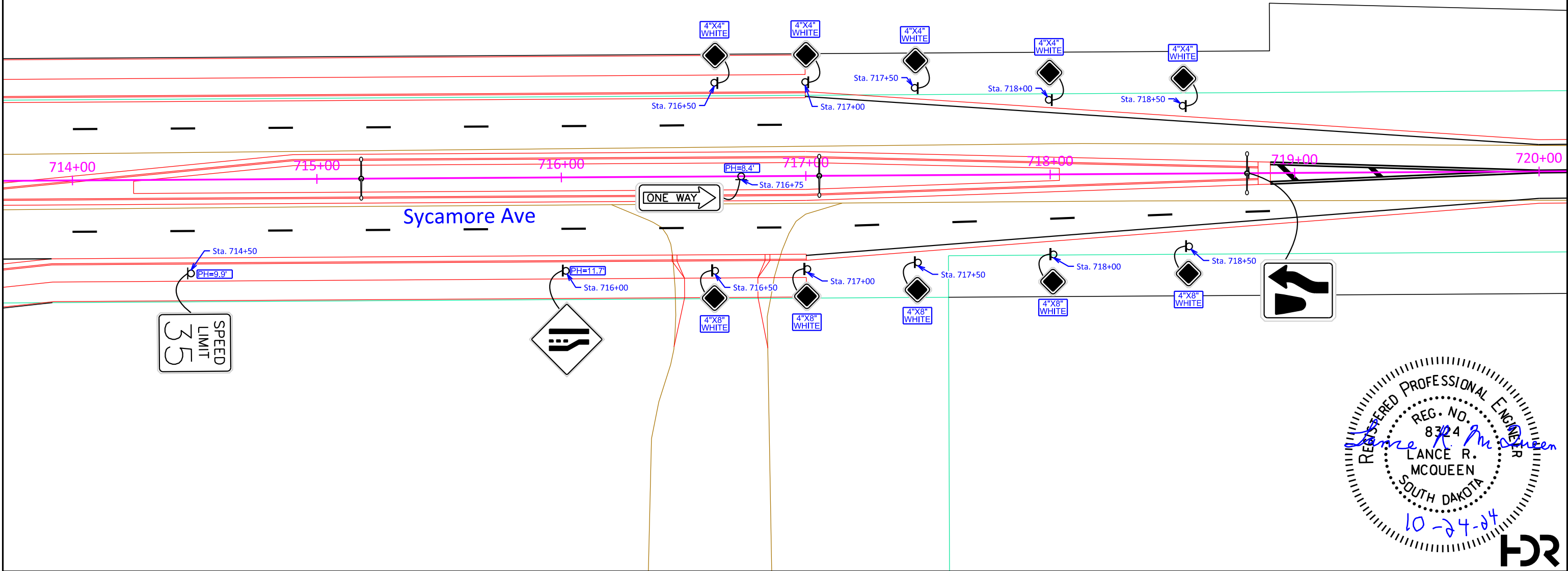
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(106)409 & P 8042(00)	S21	S32

FILE: ...Section 5\S21.dgn PLOTTING DATE: 10-24-2024  
 REV DATE: INITIAL:



SIGNING LEGEND		
SIGN	PROPOSED TRAFFIC SIGN	PROPOSED DELINEATOR. COLOR AND SIZE SPECIFIED ON THE PLAN. WHERE INSTALLED ON ISLANDS, INSTALLED AT RADIUS POINTS OF ISLAND.  PROPOSED TYPE 2 OBJECT MARKER. INSTALLED AT FLARED END OF STORM SEWER PIPE AND ENDS OF STRUCTURAL WALLS.
SIGN	EXISTING TRAFFIC SIGN TO BE REMOVED FOR RESET AND RESET	
SIGN	EXISTING TRAFFIC SIGN TO BE REMOVED	
PH	POST HEIGHT	
DND	DO NOT DISTURB EXISTING SIGN	
OTR	SIGN OWNER TO RELOCATE SIGN	
2SMBB	2 SIGNS MOUNTED BACK-TO-BACK	
POST	EXISTING TRAFFIC SIGN ON POST	
POST	PROPOSED TRAFFIC SIGN ON POST	
POST	PROPOSED TRAFFIC SIGN ON DOUBLE POST	
LIGHT POLE	EXISTING TRAFFIC SIGN ON LIGHT POLE	
LIGHT POLE	PROPOSED TRAFFIC SIGN ON LIGHT POLE	
POWER POLE	EXISTING TRAFFIC SIGN ON POWER POLE	
MAST ARM	EXISTING TRAFFIC SIGN ON MAST ARM	
MAST ARM	PROPOSED TRAFFIC SIGN ON MAST ARM	



REGISTERED PROFESSIONAL ENGINEER  
 REG. NO. 8324  
*Lance R. McQueen*  
 LANCE R. MCQUEEN  
 SOUTH DAKOTA  
 10-24-24

# Permanent Signing Layout - Sycamore Avenue

FOR BIDDING PURPOSES ONLY

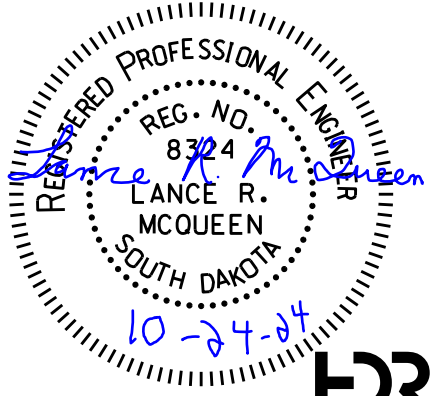
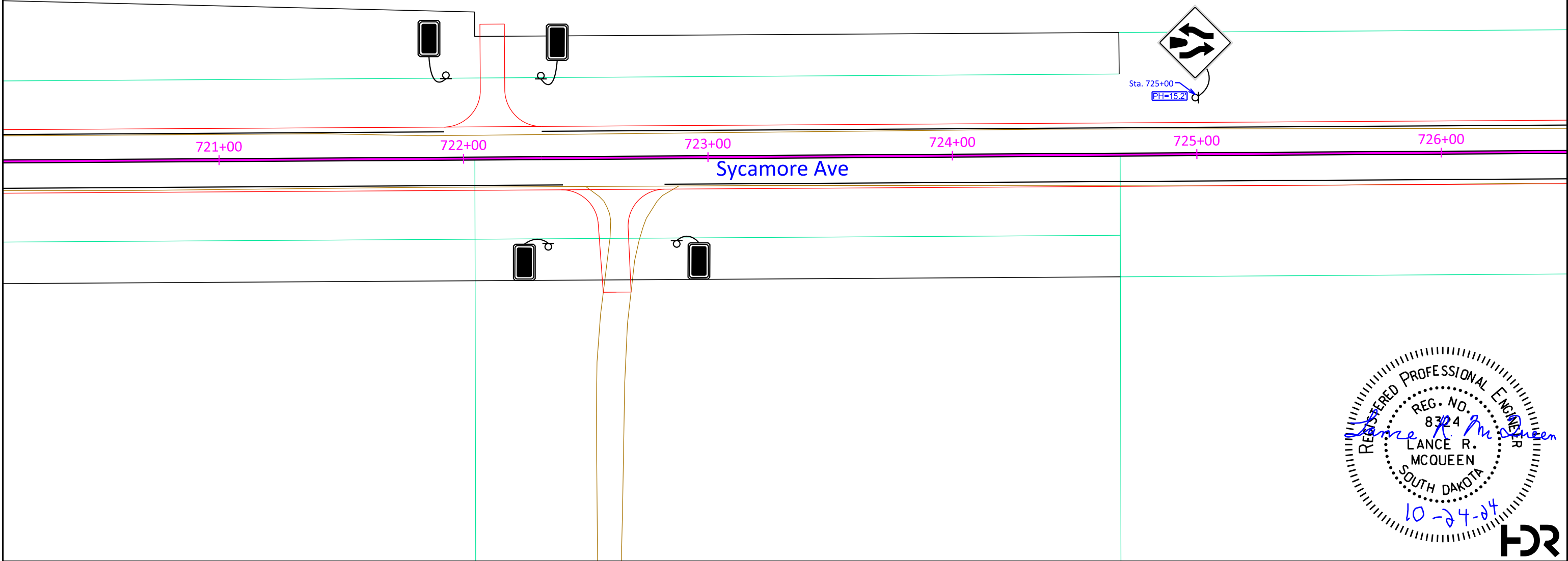
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(106)409 & P 8042(00)	S22	S32

FILE: ...Section 5\S22.dgn  
PLOTING DATE: 10-24-2024

REV DATE:  
INITIAL:



SIGNING LEGEND		
SIGN	PROPOSED TRAFFIC SIGN	PROPOSED DELINEATOR. COLOR AND SIZE SPECIFIED ON THE PLAN. WHERE INSTALLED ON ISLANDS, INSTALLED AT RADIUS POINTS OF ISLAND.  PROPOSED TYPE 2 OBJECT MARKER. INSTALLED AT FLARED END OF STORM SEWER PIPE AND ENDS OF STRUCTURAL WALLS.
	EXISTING TRAFFIC SIGN TO BE REMOVED FOR RESET AND RESET	
	EXISTING TRAFFIC SIGN TO BE REMOVED	
	POST HEIGHT	
	DO NOT DISTURB EXISTING SIGN	
	SIGN OWNER TO RELOCATE SIGN	
	2 SIGNS MOUNTED BACK-TO-BACK	
	EXISTING TRAFFIC SIGN ON POST	
	PROPOSED TRAFFIC SIGN ON POST	
	PROPOSED TRAFFIC SIGN ON DOUBLE POST	
	EXISTING TRAFFIC SIGN ON LIGHT POLE	
	PROPOSED TRAFFIC SIGN ON LIGHT POLE	
	EXISTING TRAFFIC SIGN ON POWER POLE	
	EXISTING TRAFFIC SIGN ON MAST ARM	
	PROPOSED TRAFFIC SIGN ON MAST ARM	

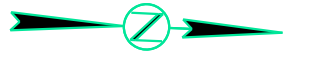


FOR BIDDING PURPOSES ONLY

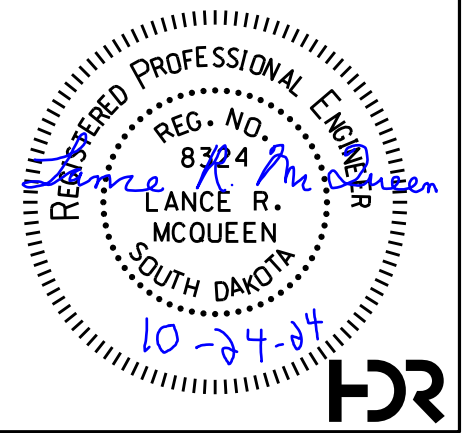
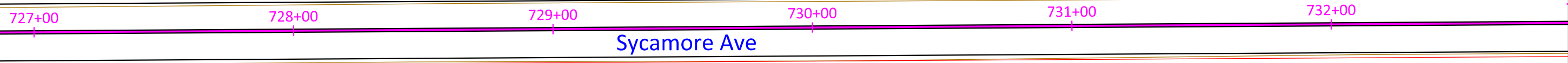
# Permanent Signing Layout - Sycamore Avenue

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(106)409 & P 8042(00)	S23	S32

FILE: ...Section 5\S23.dgn PLOTTING DATE: 10-24-2024  
 REV DATE: INITIAL:



SIGNING LEGEND		
SIGN	PROPOSED TRAFFIC SIGN	PROPOSED DELINEATOR. COLOR AND SIZE SPECIFIED ON THE PLAN. WHERE INSTALLED ON ISLANDS, INSTALLED AT RADIUS POINTS OF ISLAND.  PROPOSED TYPE 2 OBJECT MARKER. INSTALLED AT FLARED END OF STORM SEWER PIPE AND ENDS OF STRUCTURAL WALLS.
	EXISTING TRAFFIC SIGN TO BE REMOVED FOR RESET AND RESET	
	EXISTING TRAFFIC SIGN TO BE REMOVED	
	POST HEIGHT	
	DO NOT DISTURB EXISTING SIGN	
	SIGN OWNER TO RELOCATE SIGN	
	2 SIGNS MOUNTED BACK-TO-BACK	
	EXISTING TRAFFIC SIGN ON POST	
	PROPOSED TRAFFIC SIGN ON POST	
	PROPOSED TRAFFIC SIGN ON DOUBLE POST	
	EXISTING TRAFFIC SIGN ON LIGHT POLE	
	PROPOSED TRAFFIC SIGN ON LIGHT POLE	
	EXISTING TRAFFIC SIGN ON POWER POLE	
	EXISTING TRAFFIC SIGN ON MAST ARM	
	PROPOSED TRAFFIC SIGN ON MAST ARM	



# Permanent Signing Layout - Sycamore Avenue

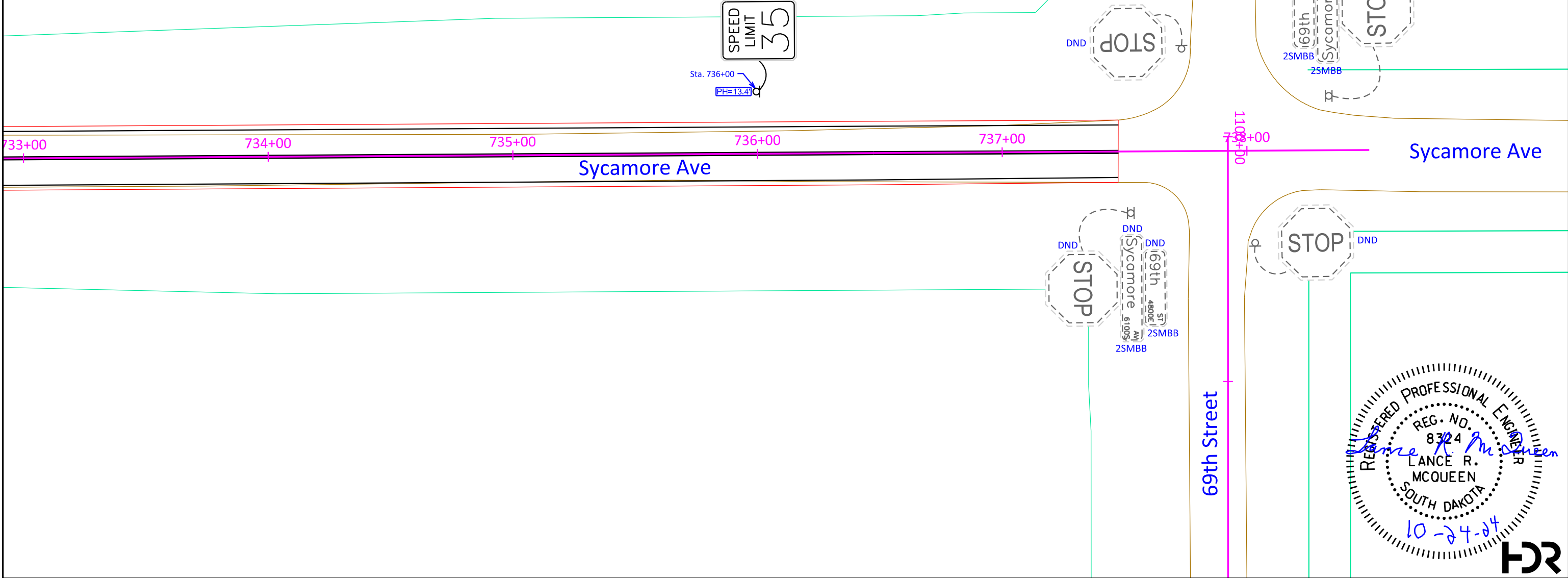
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(106)409 & P 8042(00)	S24	S32

FILE: ...Section S\S24.dgn PLOTTING DATE: 10-24-2024 REV DATE: INITIAL:



SIGNING LEGEND		
SIGN	PROPOSED TRAFFIC SIGN	PROPOSED DELINEATOR. COLOR AND SIZE SPECIFIED ON THE PLAN. WHERE INSTALLED ON ISLANDS, INSTALLED AT RADIUS POINTS OF ISLAND.
SIGN	EXISTING TRAFFIC SIGN TO BE REMOVED FOR RESET AND RESET	
	EXISTING TRAFFIC SIGN TO BE REMOVED	PROPOSED TYPE 2 OBJECT MARKER. INSTALLED AT FLARED END OF STORM SEWER PIPE AND ENDS OF STRUCTURAL WALLS.
PH	POST HEIGHT	
DND	DO NOT DISTURB EXISTING SIGN	
OTR	SIGN OWNER TO RELOCATE SIGN	
2SMBB	2 SIGNS MOUNTED BACK-TO-BACK	
	EXISTING TRAFFIC SIGN ON POST	
	PROPOSED TRAFFIC SIGN ON POST	
	PROPOSED TRAFFIC SIGN ON DOUBLE POST	
	EXISTING TRAFFIC SIGN ON LIGHT POLE	
	PROPOSED TRAFFIC SIGN ON LIGHT POLE	
	EXISTING TRAFFIC SIGN ON POWER POLE	
	PROPOSED TRAFFIC SIGN ON POWER POLE	
	EXISTING TRAFFIC SIGN ON MAST ARM	
	PROPOSED TRAFFIC SIGN ON MAST ARM	



REGISTERED PROFESSIONAL ENGINEER  
 REG. NO. 8324  
*Lance R. McQueen*  
 LANCE R. MCQUEEN  
 SOUTH DAKOTA  
 10-24-24

# Permanent Signing Details

FOR BIDDING PURPOSES ONLY

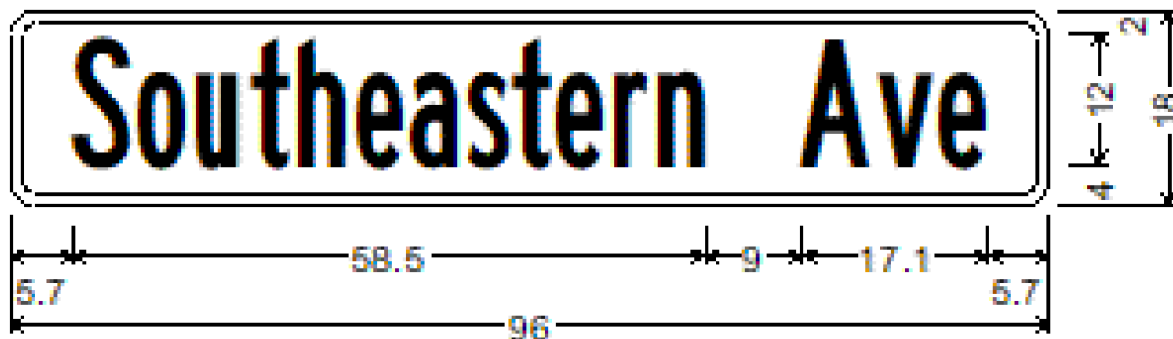
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(106)409 & P 8042(00)	S25	S32

FILE: ...Section S\S25.dgn  
PLOTING DATE: 10-24-2024  
REV DATE:  
INITIAL:



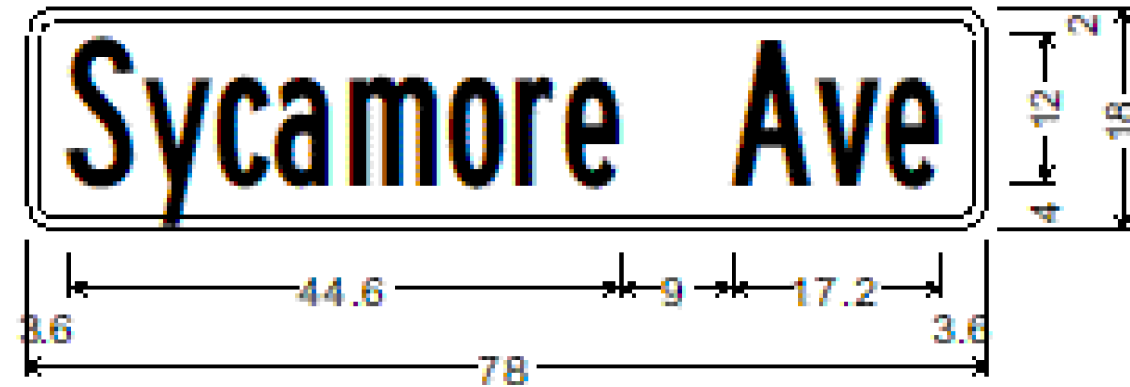
D3-1 OH;  
2.3" Radius, 1.0" Border, White on Green;  
"Veterans Pkwy", B 2K 75% spacing;  
Table of letter and object lefts

V	e	t	e	r	a	n	s
6.1	12.4	17.1	21.2	26.6	30.2	36.0	41.2
P	k	w	y				
54.0	60.2	65.3	72.4				



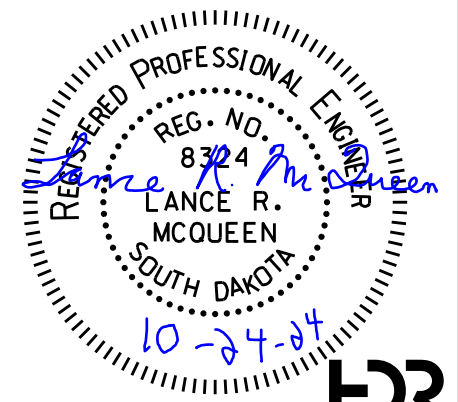
D3-1 OH;  
2.3" Radius, 1.0" Border, White on Green;  
"Southeastern Ave", B 2K 75% spacing;  
Table of letter and object lefts

S	e	u	t	e	n	e	s	t	e	r	n
5.7	11.7	17.3	22.3	26.6	32.0	37.0	42.3	46.4	50.4	55.8	59.9
A	v	e									
73.2	80.1	85.9									



D3-1 OH;  
2.3" Radius, 1.0" Border, White on Green;  
"Sycamore Ave", B 2K 75% spacing;  
Table of letter and object lefts

S	y	c	a	m	o	r	e
3.6	9.4	15.6	20.5	26.3	34.4	40.0	43.8
A	v	e					
57.2	64.1	69.9					

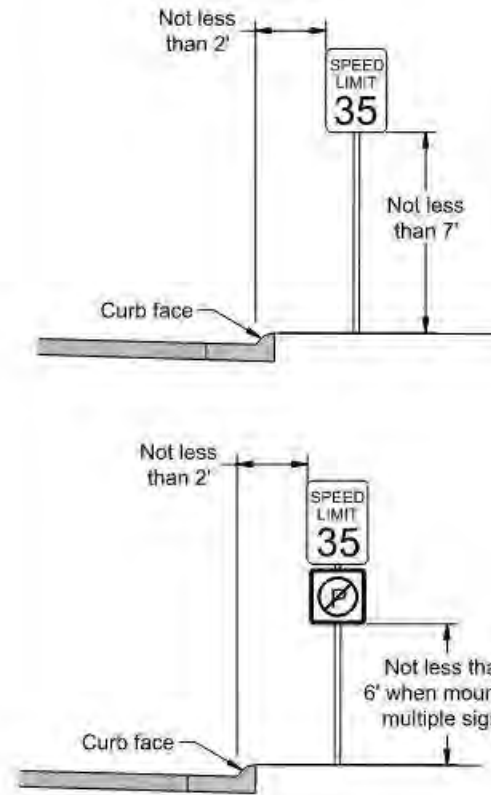




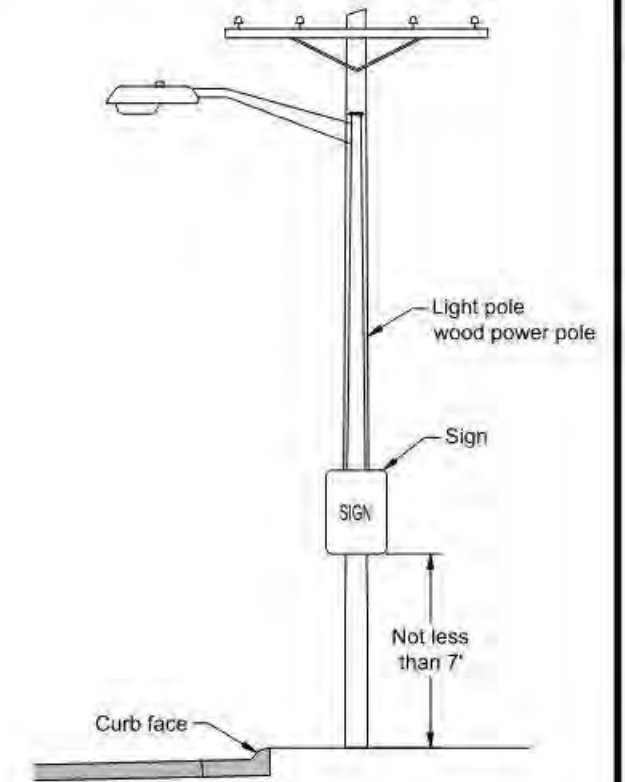
STATE OF SOUTH DAKOTA	PROJECT NH 0100(106)409 & P 8042(00)	SHEET S26	TOTAL SHEETS S32
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Plotting Date: 10/24/2024

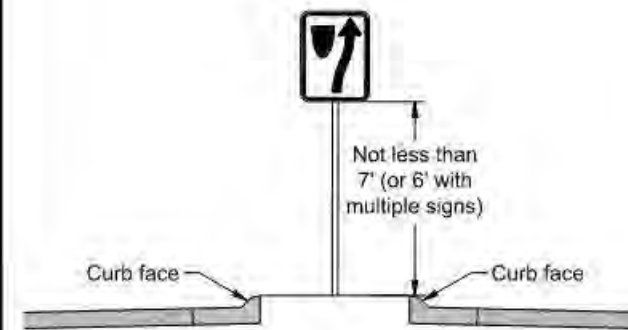
**Roadside Signs**



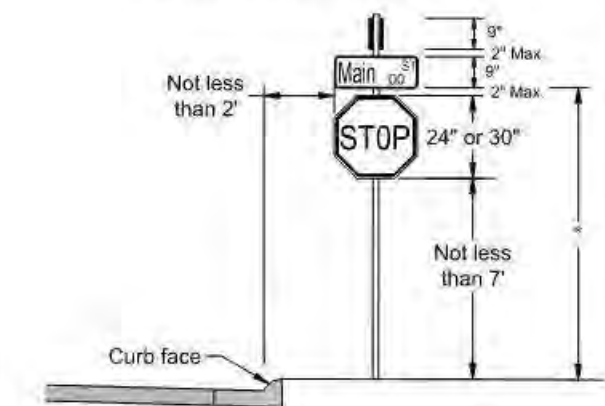
**Street Light/Wooden Power Pole Mount**



**Median Signs**




**Stop/Street Name Signs**



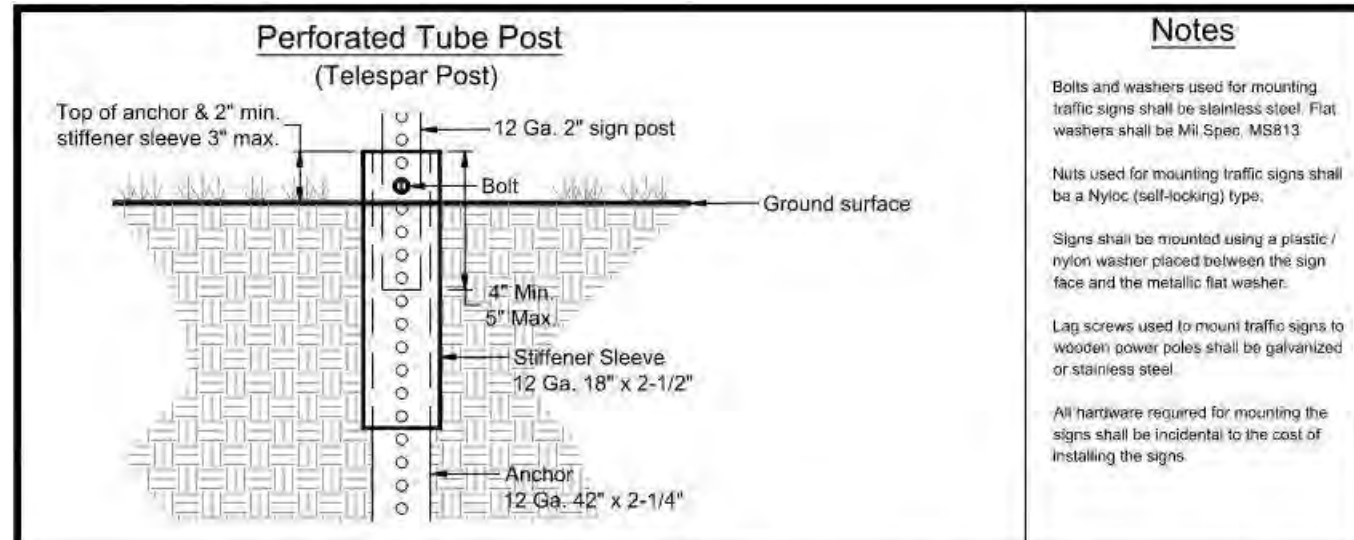
\* 10' When street name signs are mounted alone on post.

Note: All R7 & R8 series signs with arrows shall be installed at a 45 degree angle to the street.

Revised: November 2017

 <p>CITY OF SIOUX FALLS <b>PUBLIC WORKS</b> Providing a Better Quality of Life for You!</p>	<p><b>Heights and Lateral Locations of Signs for Typical Urban Installation</b></p>	Specification Reference	Plate Number
		No. 632	632.10





### Notes

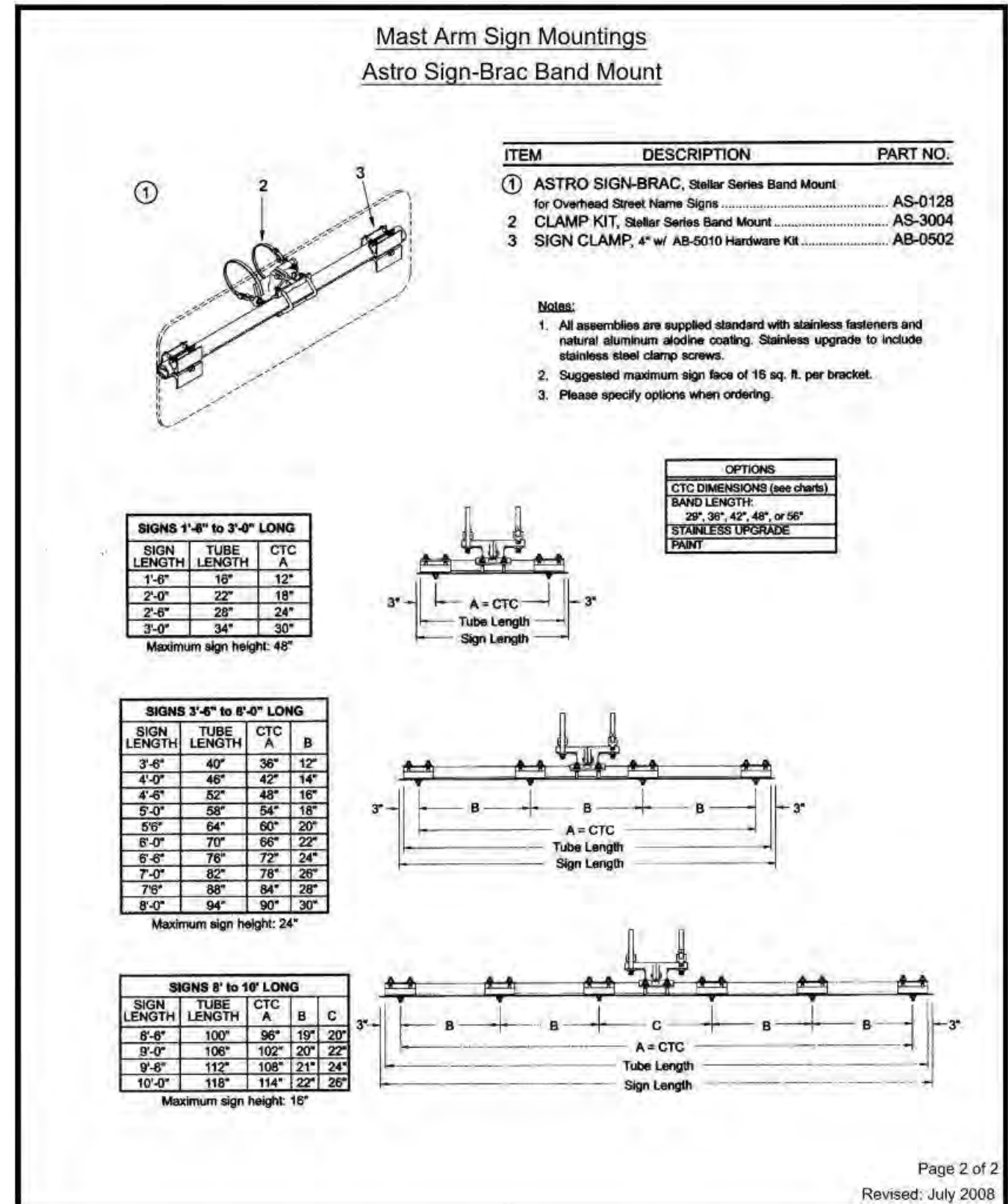
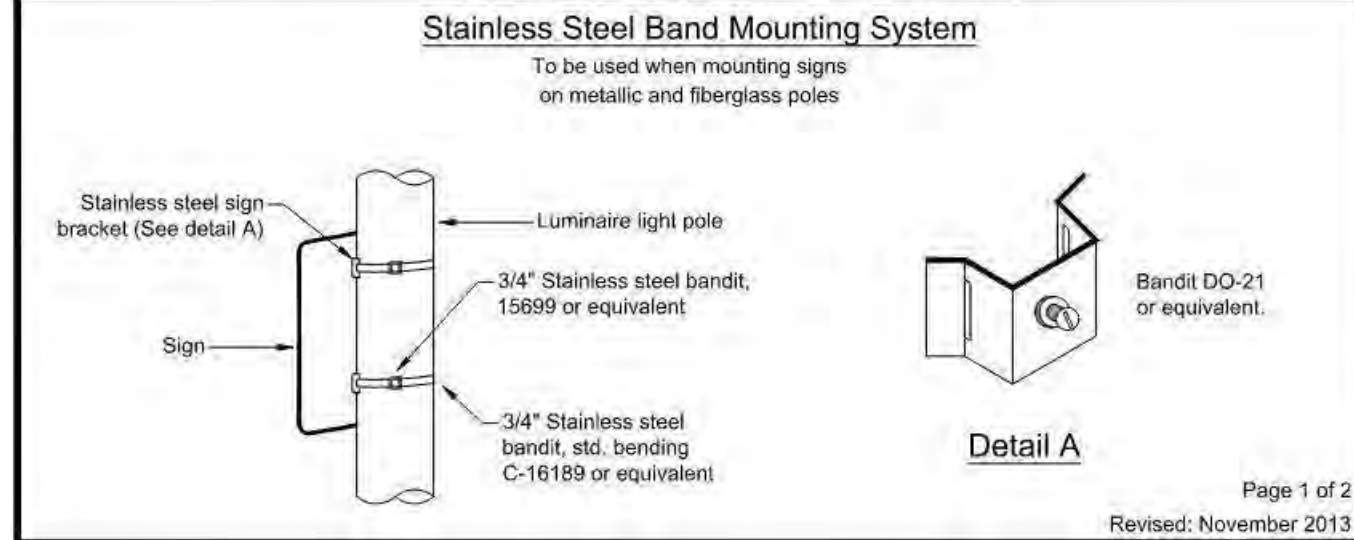
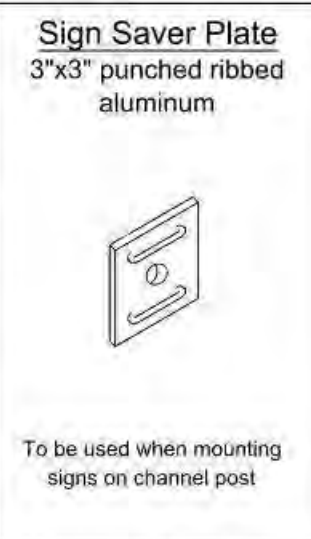
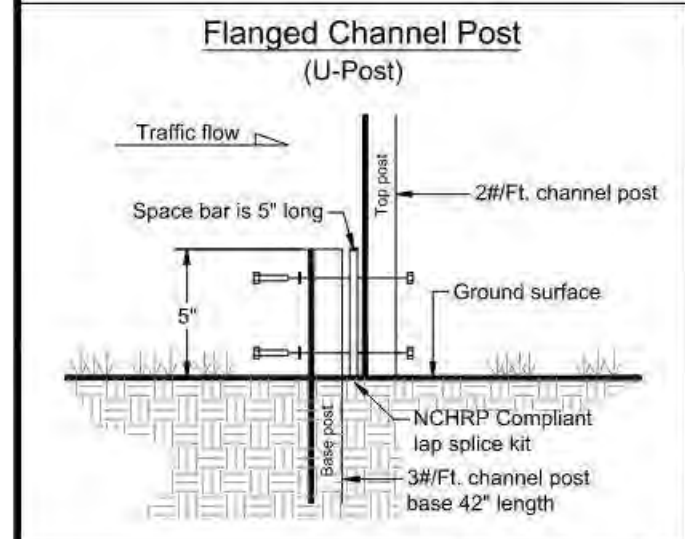
Bolts and washers used for mounting traffic signs shall be stainless steel. Flat washers shall be Mil Spec, MS813

Nuts used for mounting traffic signs shall be a Nyloc (self-locking) type.

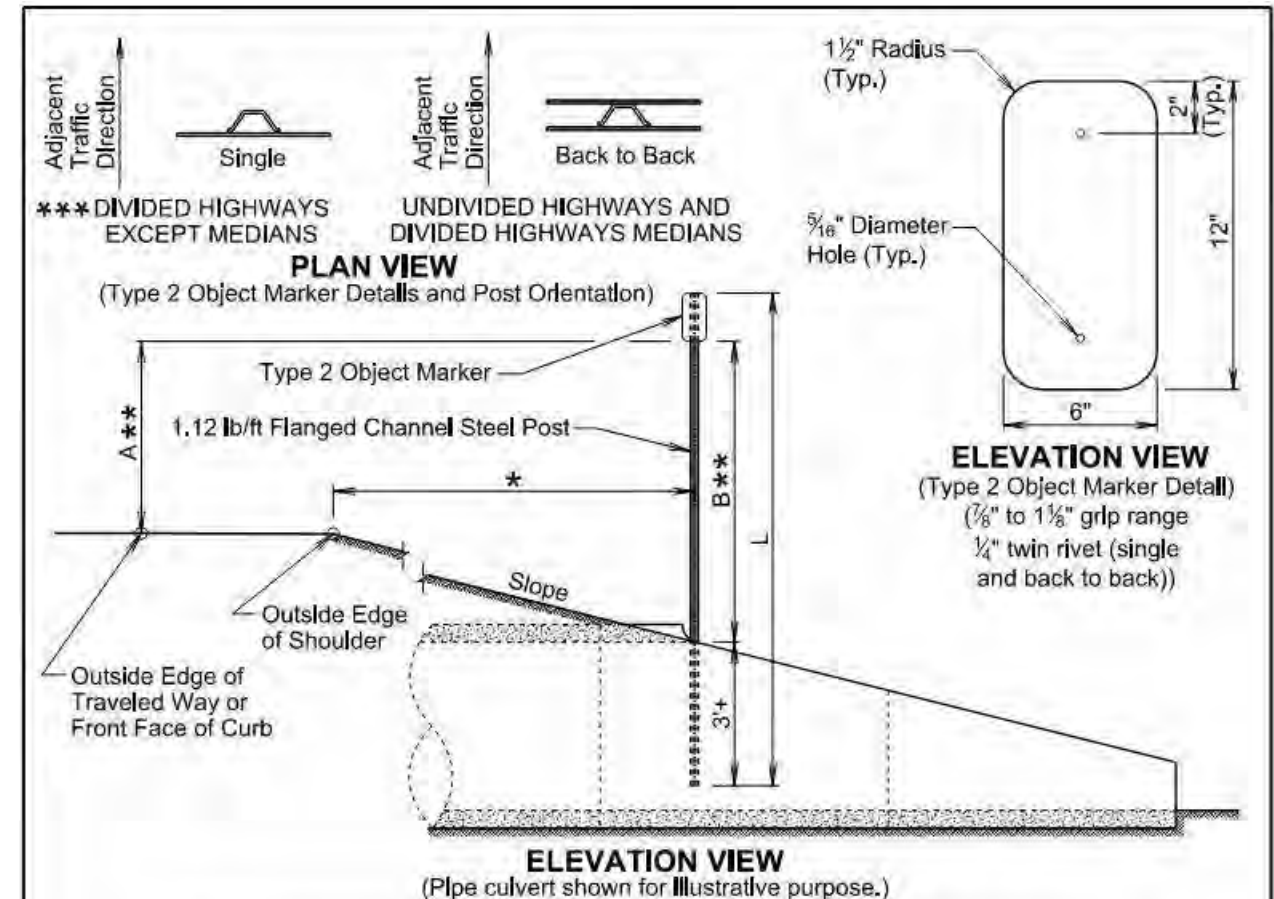
Signs shall be mounted using a plastic / nylon washer placed between the sign face and the metallic flat washer.

Lag screws used to mount traffic signs to wooden power poles shall be galvanized or stainless steel.

All hardware required for mounting the signs shall be incidental to the cost of installing the signs.







TYPE 2 OBJECT MARKER POST LENGTHS										
OFFSET (*)	1'	2'	3'	4'	5'	6'	7'	8'	Greater Than 8'	
POST LENGTH (L)										
SLOPE	3:1	8'-6"	8'-9"	9'-3"	9'-6"	9'-9"	10'-3"	10'-6"	10'-9"	8'-0"
	4:1	8'-6"	8'-9"	9'-0"	9'-3"	9'-9"	9'-9"	10'-0"	10'-3"	8'-0"
	5:1	8'-3"	8'-6"	8'-9"	9'-0"	9'-3"	9'-3"	9'-6"	9'-9"	8'-0"
	6:1	8'-3"	8'-6"	8'-9"	8'-9"	9'-0"	9'-3"	9'-3"	9'-6"	8'-0"

**GENERAL NOTES:**

- \*\*\* The type 2 object marker may be installed back to back when specified in the plans. Post Length L was calculated based on a shoulder width of 6 feet at a crossslope of 4 percent and L was rounded up to the nearest 3 inches.
- \*\* Dimension A is 4 feet when the Offset \* is 8 feet and less. Dimension B is 4 feet when Offset \* is greater than 8 feet.
- The type 2 object marker and the 1.12 lb/ft flanged channel steel post will be in conformance with Specifications Section 982.2 J.
- Payment for the type 2 object marker will be in conformance with Specification Section 632.5 B.

December 23, 2019

<b>S D D O T</b>	<b>TYPE 2 OBJECT MARKER (DIRECT DRIVE)</b>	PLATE NUMBER <b>632.01</b>
	Published Date: 2025	Sheet 1 of 1



**PLAN VIEW**  
(For Multiple Pipe Culverts, Box Culverts, and Cattle Passes)  
(Pipe culverts shown for illustrative purpose.)  
(Embankment is not shown.)

**PLAN VIEW**  
(For Single Pipe Culvert, Box Culvert, and Cattle Pass)  
(Pipe culvert shown for illustrative purpose.)  
(Embankment is not shown.)

**GENERAL NOTES:**  
This standard plate will be used in conjunction with standard plate 632.01.  
\* The type 2 object markers will be installed at the locations shown above. The type 2 object markers, single faced or back to back, will be as specified in the plans.

December 23, 2019

<b>S D D O T</b>	<b>TYPE 2 OBJECT MARKER AT PIPE CULVERTS, BOX CULVERTS, AND CATTLE PASSES (Less than 60" Overall Width)</b>	PLATE NUMBER <b>632.03</b>
	Published Date: 2025	Sheet 1 of 1

**PLAN VIEW**  
(For Multiple Pipe Culverts, Box Culverts, and Cattle Passes)  
(Pipe culverts shown for illustrative purpose.)  
(Embankment is not shown.)

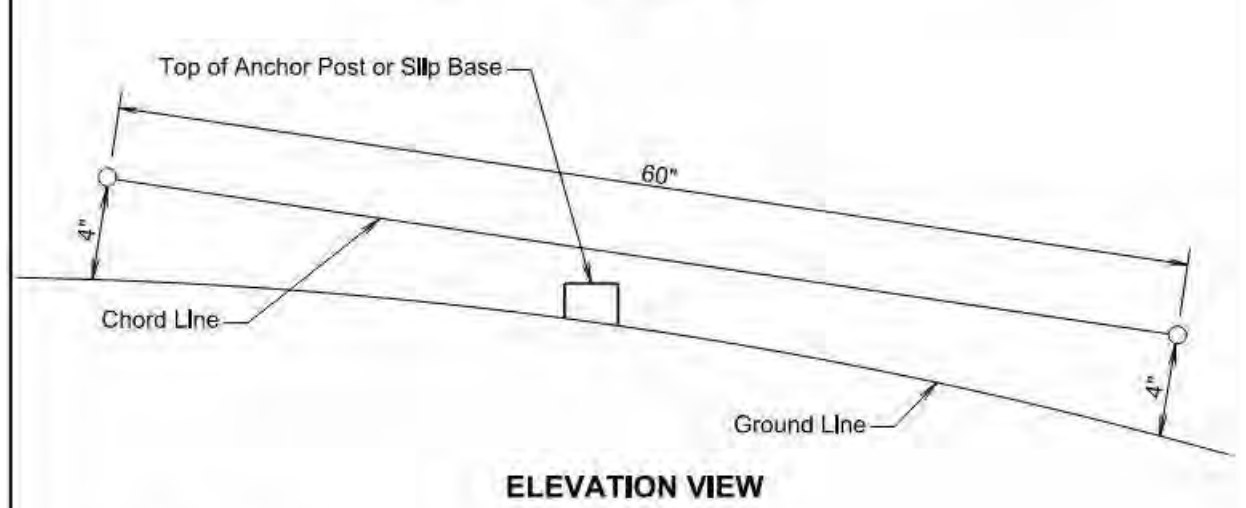
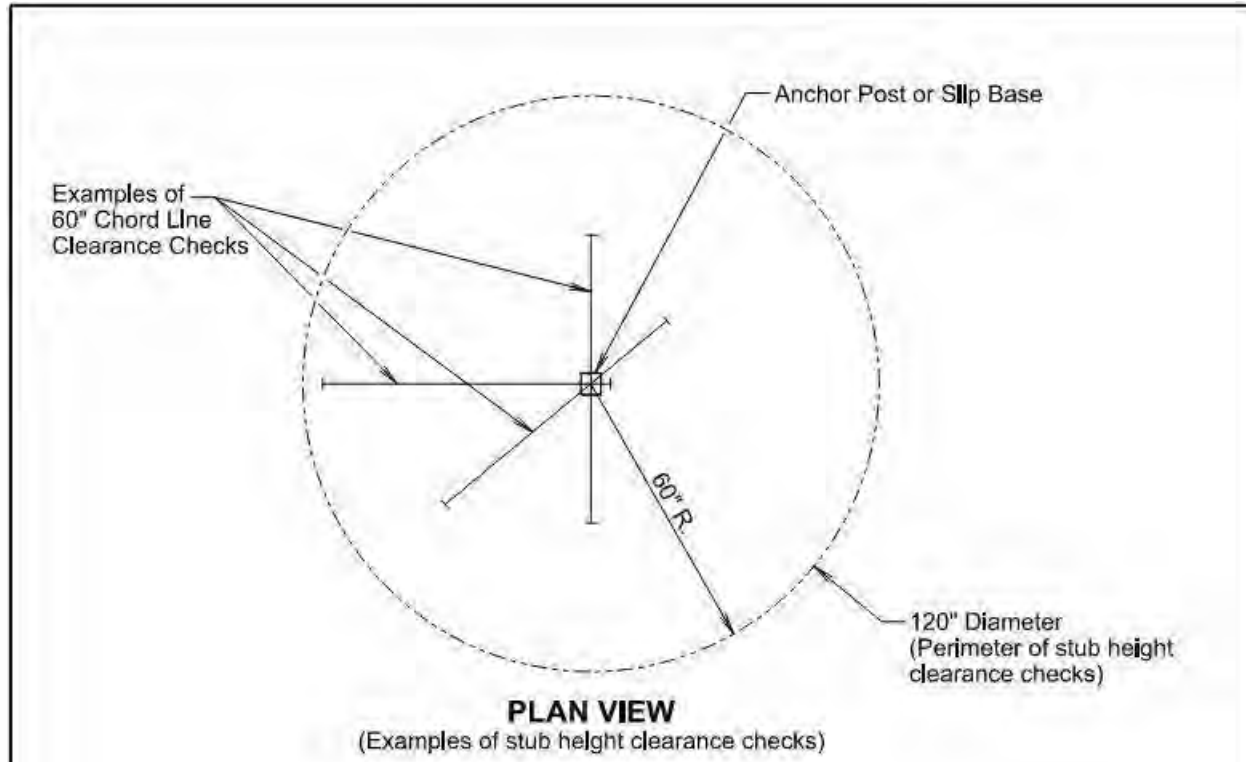
**PLAN VIEW**  
(For Single Pipe Culvert, Box Culvert, and Cattle Pass)  
(Box culvert shown for illustrative purpose.)  
(Embankment is not shown.)

**GENERAL NOTES:**  
This standard plate will be used in conjunction with standard plate 632.01.  
\* The type 2 object markers will be installed at the locations shown above. The type 2 object markers, single faced or back to back, will be as specified in the plans.

December 23, 2019

<b>S D D O T</b>	<b>TYPE 2 OBJECT MARKER AT PIPE CULVERTS, BOX CULVERTS, AND CATTLE PASSES (60" and Greater Overall Width)</b>	PLATE NUMBER <b>632.04</b>
	Published Date: 2025	Sheet 1 of 1





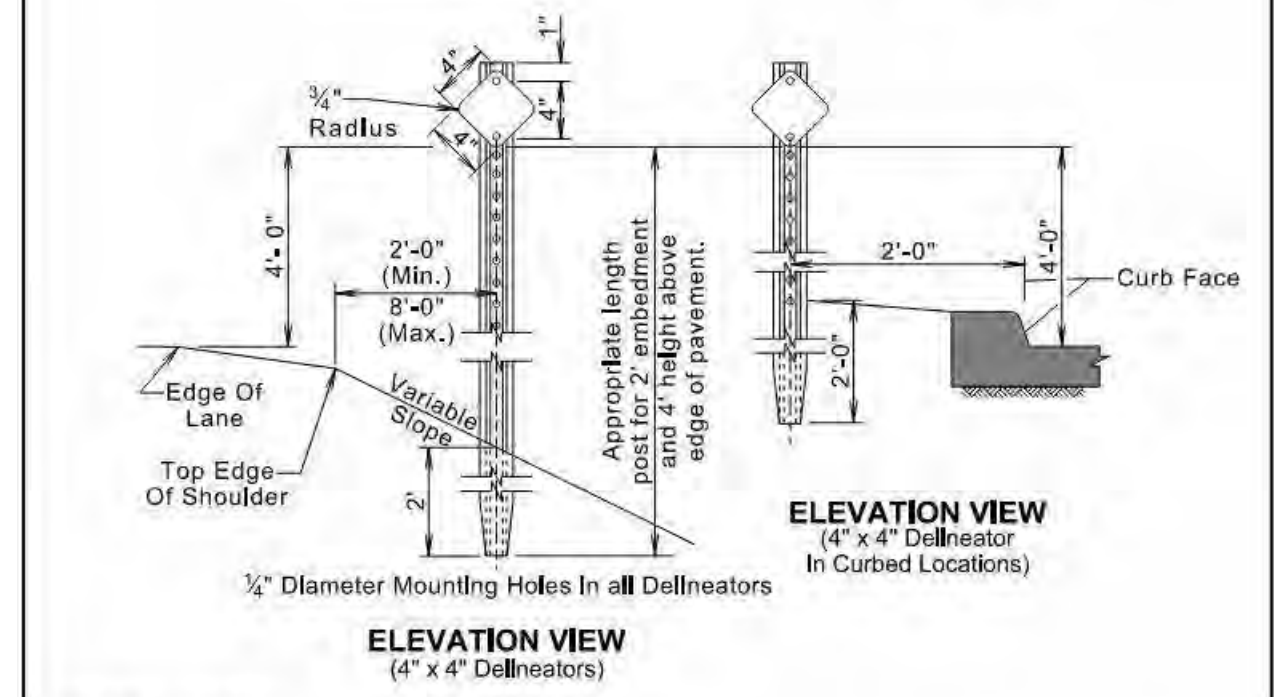
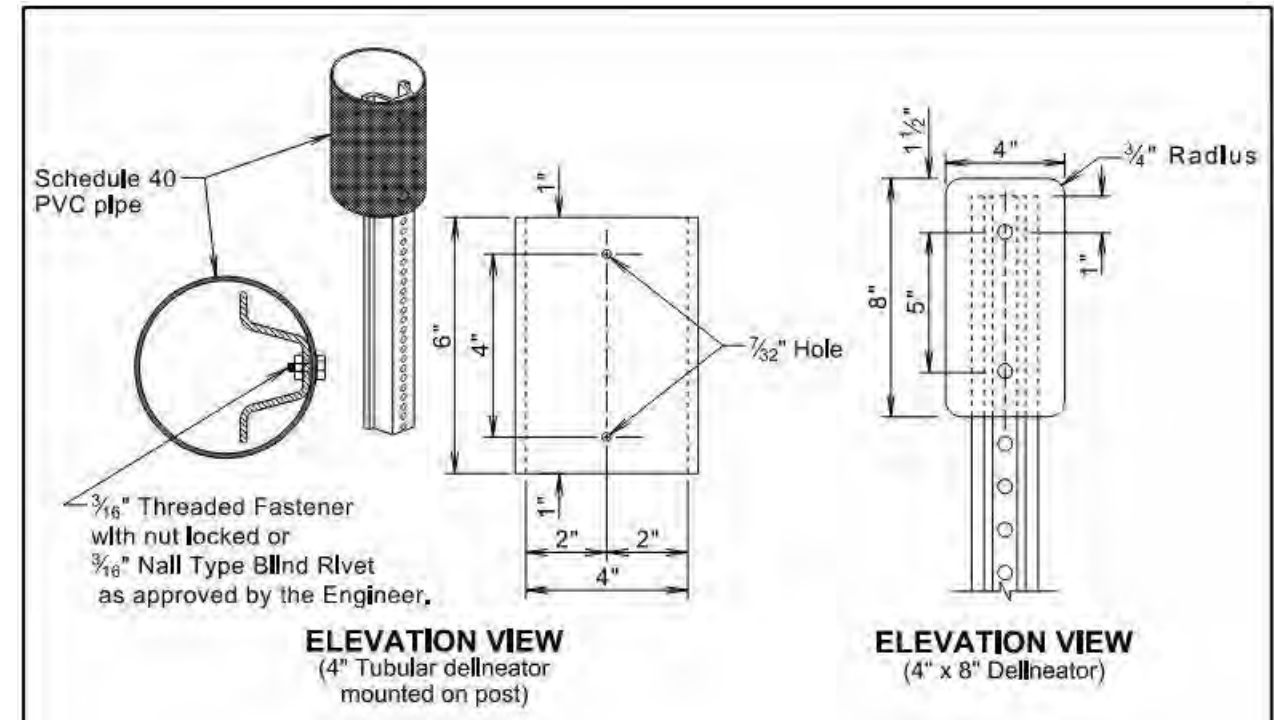
**GENERAL NOTES:**

The top of anchor posts and slip bases WILL NOT extend above a 60" chord line within a 120" diameter circle around the post with ends 4" above the ground.

At locations where there is curb and gutter adjacent to the breakaway sign support, the stub height will be a maximum of 4" above the ground line at the localized area adjacent to the breakaway support stub.

January 22, 2021

Published Date: 2025	S D D O T	BREAKAWAY SUPPORT STUB CLEARANCE	PLATE NUMBER 632.18
			Sheet 1 of 1



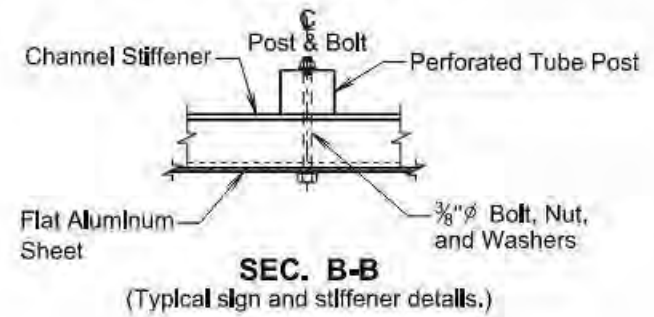
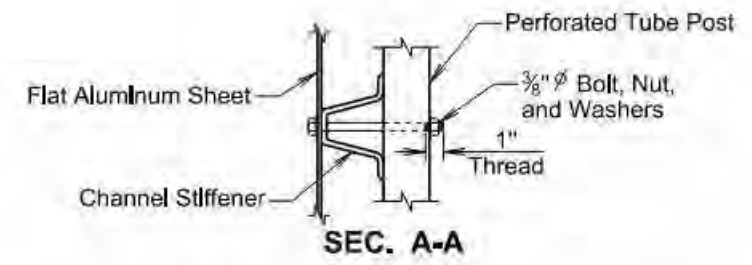
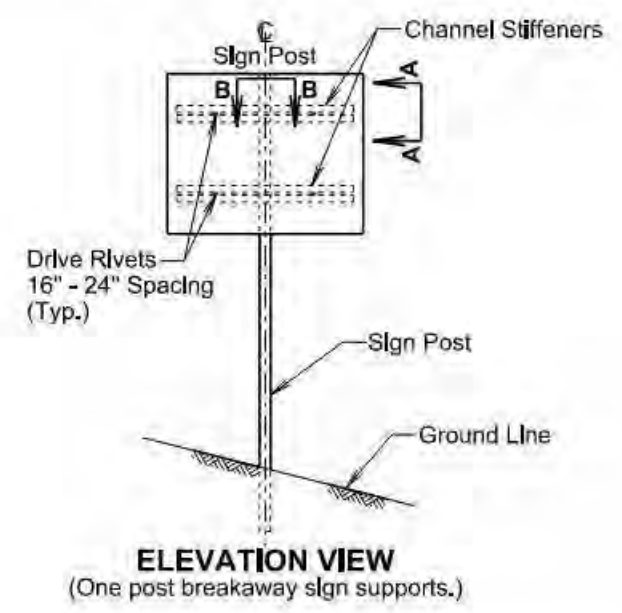
**GENERAL NOTES:**

Back-to-back delineation is required for two-way traffic, single-sided delineation for one-way traffic.

March 31, 2024

Published Date: 2025	S D D O T	DELINEATOR INSTALLATION DETAIL	PLATE NUMBER 632.42
			Sheet 1 of 1



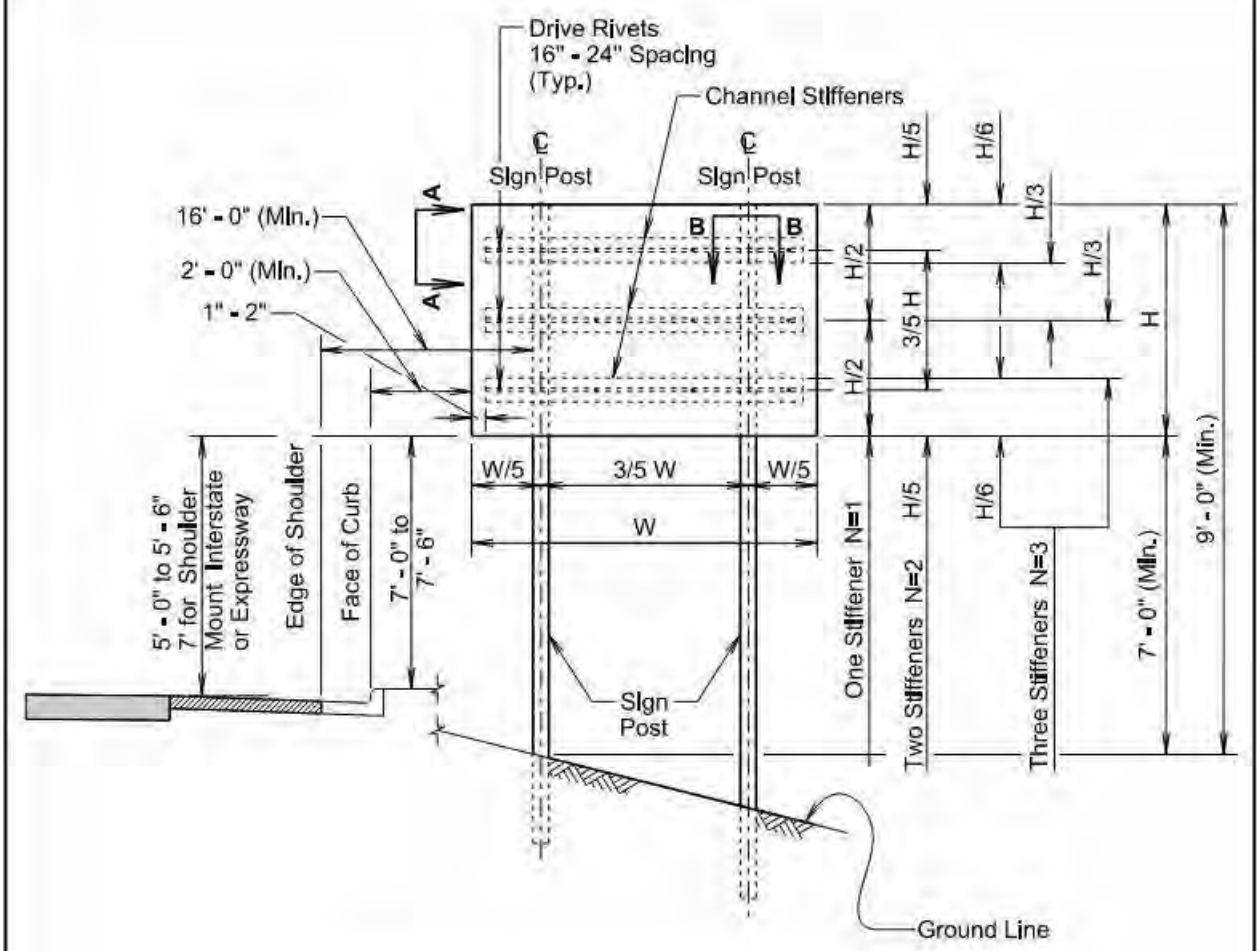


∅ A plastic washer, as recommended by the sheeting manufacturer, will be installed between the sign face and the metal washer shown.

November 19, 2020

<b>S D D O T</b>	<b>SIGN STIFFENER DETAILS</b>	PLATE NUMBER 632.60
		Street 1 of 2

Published Date: 2025



**GENERAL NOTES:**

The number of stiffeners used (N) will be as follows:  
 If  $H \leq 2' - 0''$  then  $N = 1$   
 If  $2' - 0'' < H \leq 8' - 0''$  then  $N = 2$   
 If  $8' - 0'' < H \leq 15' - 0''$  then  $N = 3$   
 where H is the vertical dimension of the sign.

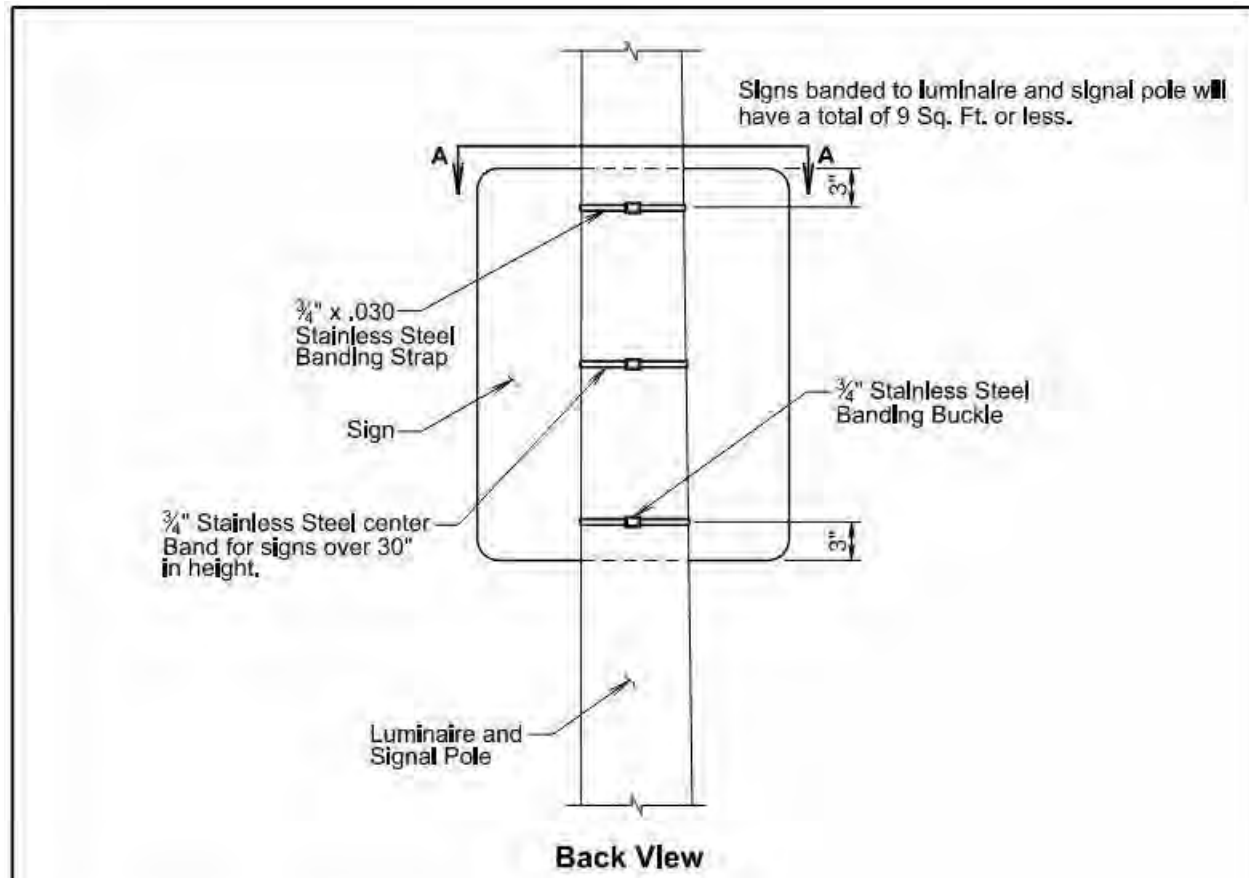
A minimum of two bolts will be required to fasten the sign to each post.

November 19, 2020

<b>S D D O T</b>	<b>SIGN STIFFENER DETAILS</b>	PLATE NUMBER 632.60
		Street 2 of 2

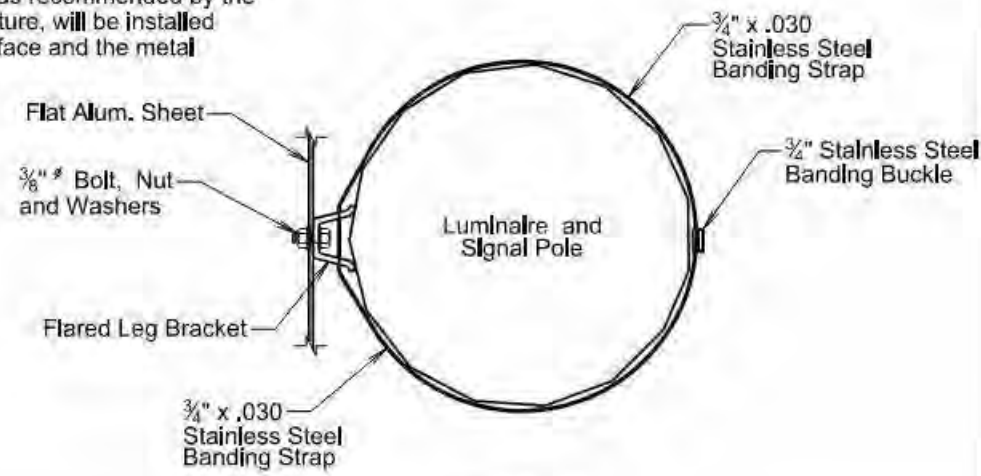
Published Date: 2025





Back View

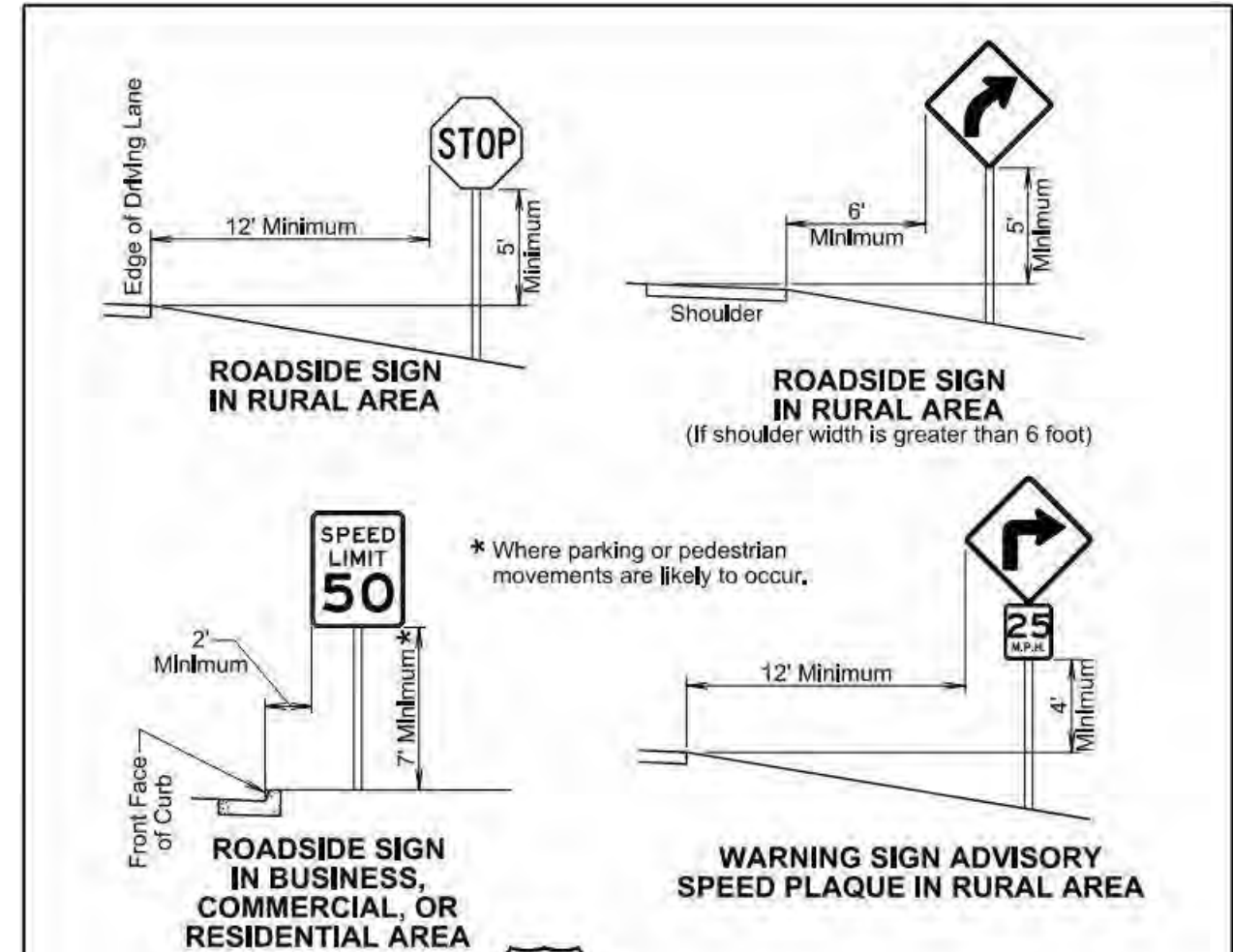
A plastic washer, as recommended by the sheeting manufacture, will be installed between the sign face and the metal washer shown.



View A - A

November 19, 2020

Published Date: 2025	S D D O T	BANDING SIGN TO LUMINAIRE AND SIGNAL POLE	PLATE NUMBER 632.80
			Sheet 1 of 1



ROADSIDE SIGN IN RURAL AREA

ROADSIDE SIGN IN RURAL AREA  
(If shoulder width is greater than 6 foot)

ROADSIDE SIGN IN BUSINESS, COMMERCIAL, OR RESIDENTIAL AREA

WARNING SIGN ADVISORY SPEED PLAQUE IN RURAL AREA



ROADSIDE SIGN IN RURAL AREA

SIGN ON NOSE OF MEDIAN

November 19, 2020

Published Date: 2025	S D D O T	OFFSETS FOR SIGN INSTALLATION	PLATE NUMBER 632.90
			Sheet 1 of 1