

# SECTION C: TRAFFIC CONTROL PLANS

FOR BIDDING PURPOSES ONLY

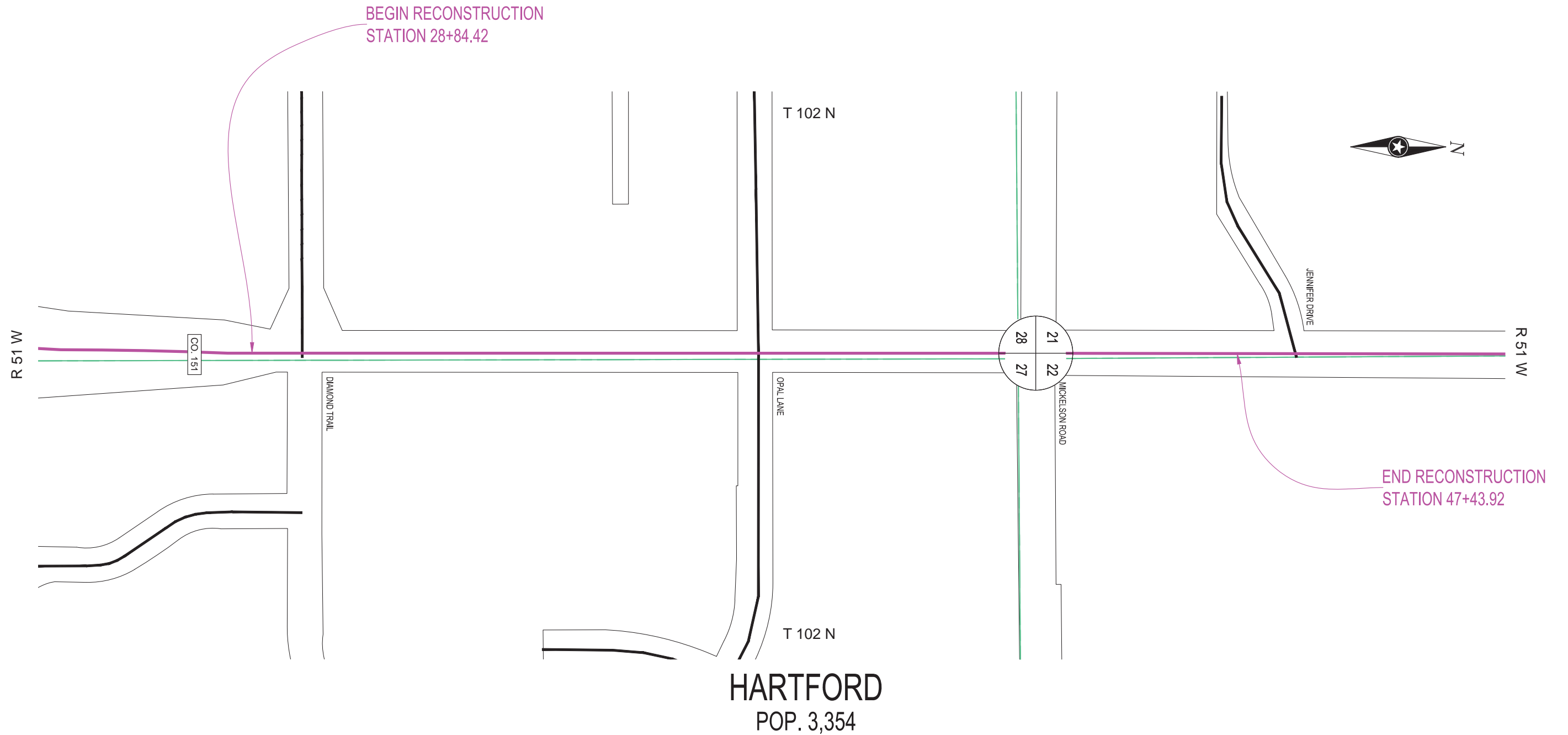
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 6353(00)	C1	C14

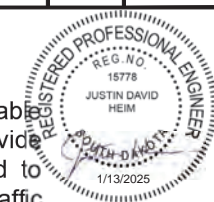
Plotting Date: 1/7/2025



## INDEX OF SHEETS

- C1 Section Title Sheet
- C2 Estimated Quantities and Notes
- C3 Traffic Control Table
- C4-C12 Traffic Control Layout
- C13-C14 Standard Plates





**SECTION C ESTIMATE OF QUANTITIES**

SBI NBR	SBI DESC	ITEM QTY	UNITS
004E0020	Construction and Maintenance of Detour(s)	Lump Sum	LS
634E0110	Traffic Control Signs	127.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0135	Traffic Control Supervisor	Lump Sum	LS
634E0275	Type 3 Barricade	14	Each
634E0420	Type C Advance Warning Arrow Board	1	Each
634E1002	Detour and Restriction Signing	196.0	SqFt

**SEQUENCE OF OPERATIONS**

If changes to the sequence of operations are proposed during the project, these must be submitted for review a minimum of one week prior to potential implementation. Approval for changes to the sequence of operations will only be allowed when the proposed changes meet with the Department's intent for traffic control and sequencing of the work.

Approval of an alternate sequence of operations will only be allowed when the proposed changes meet with the City's intent for traffic control and sequencing of the work. An alternate sequence will be submitted for review a minimum of one week prior to potential implementation.

Contractor shall coordinate all traffic control installations with adjacent SD DOT project. Conflicting signs, detours, etc. shall be removed or bagged. For traffic control near the border between City and SDDOT projects, the Contractor shall coordinate proposed changes with City and SDDOT Engineer prior to installation.

**GENERAL TRAFFIC CONTROL**

Existing guide, route, informational logo, regulatory, and warning signs will be temporarily reset and maintained during construction. Removing, relocating, covering, salvaging, and resetting of existing traffic control devices, including delineation, will be the responsibility of the Contractor. Cost for this work will be incidental to the contract unit prices for the various items unless otherwise specified in the plans. Any delineators and signs damaged or lost will be replaced by the Contractor at no cost to the City.

All temporary traffic control sign locations will be set in the field by the Contractor and verified by the Engineer prior to installation.

All temporary speed limit signs will have a minimum mounting height of 5 feet in rural locations, even when mounted on portable supports.

Portable sign supports will not be located on sidewalks, bicycle facilities, or other areas designated for pedestrian or bicycle traffic.

All construction operations will be conducted in the general direction of traffic movement.

If there is a discrepancy between the traffic control plans, standard plates, and the MUTCD, whichever is more stringent will be used, as determined by the Engineer.

Unless otherwise stated in these plans, work will not be allowed during hours of darkness.

Fixed location signing placed more than 4 calendar days prior to the start of construction will be covered or laid down until the time of construction. The

covers must be approved by the Engineer prior to installation. The cost of materials, labor, and equipment necessary to complete this work will be incidental to other contract items. No separate payment will be made.

All fixed location signs, sign posts, and breakaway bases will be removed within 7 calendar days following pavement marking.

All haul trucks will be equipped with an additional flashing amber light that is visible from the backside of the haul truck. The costs for the flashing amber lights will be incidental to the various related contract items.

At no time will a vertical drop-off of greater than 3 inches be left overnight adjacent to the traveled way. The Contractor will utilize embankment material to ensure a 3-inch vertical drop-off is not exceeded. The slope of the embankment material will not be steeper than a 4:1 within 30 feet of the traveled way.

The Contractor will notify businesses/homeowners a minimum of two weeks prior to construction to inform them of upcoming construction and again a minimum of 48 hours prior to any blocked access to make appropriate arrangements.

A mobile work operation will be allowed provided the rumble strip or rumble stripe grooving, flush sealing, and pavement marking can be completed satisfactorily by a continuously moving work operation. A mobile work operation will require approval by the Engineer.

A Type 3 Barricade will be installed at the end of a lane closure taper as detailed in these plans. Additional Type 3 Barricades will be installed facing traffic within the closed lane at a spacing of 1/4 mile.

Construction vehicles will exit or enter the construction work zone at locations identified by the Engineer. At no time will construction vehicles utilize the maintenance crossovers or the Interstate median to exit or enter Interstate traffic.

**REMOVE PAVEMENT MARKING, 4" OR EQUIVALENT**

Markings that fall outside or interfere with new markings will be obliterated using additional methods approved by the Engineer. Removal of the existing markings will be accomplished without causing damage to the pavement, pavement joints, or joint sealant. The Contractor will repair any damage to the pavement, pavement joints, or joint sealant for no additional payment and at no cost to the City. All costs for materials, labor, and equipment necessary to remove the existing markings will be incidental to the contract unit price per foot for "Remove Pavement Marking, 4" or Equivalent".

**INCIDENTS**

An incident is an emergency road user occurrence, a natural disaster, or other unplanned event that affects or impedes the normal flow of traffic such as a crash, hazardous materials spill, or other event.

The Contractor will set up a meeting prior to start of work to plan and coordinate responses to an incident. The Contractor will invite the Department of Transportation, the Minnehaha County Sheriff, the City of Hartford, and local emergency response entities to the meeting.

The Contractor will assist to maintain traffic as required by these plan notes and as agreed to at that meeting.

Emergency vehicle access through the project will be considered and discussed at the meeting.

The Contractor may be required to modify messages on portable changeable message signs or relocate portable changeable message signs, and to provide flaggers to direct or detour traffic. The Contractor should be prepared to relocate advance warning signs if determined to be necessary for a major traffic incident lasting more than two hours. Fixed location ground mounted signs may be covered and additional portable signs provided.

No additional payment will be made for the modification of portable changeable message sign messages or the relocation of portable changeable message signs. Cost for the relocation of an advance warning sign due to an incident will be 50% of the designated sign rate.

**PRESS RELEASE ANNOUNCEMENTS**

The Engineer will prepare a press release to be released 5 days prior to any phase change or any other major change that affects traffic flow. The Engineer will be responsible to keep law enforcement, emergency services, and the traveling public notified of changes in project access. The Contractor will provide the Engineer with pertinent information 7 days prior to any phase change or any other major change that affects traffic flow.

**LIGHTING FOR NIGHTTIME WORK**

Flagger stations, working construction equipment and active workspaces will be lighted between sunset and sunrise. Non-glare light sources will be provided.

Light levels are as defined in Section 2.9.2 of NCHRP 476.

Light in conformance with Level I will be provided at the active workspaces.

Light in conformance with Level II will be provided at the locations of working construction equipment.

Light in conformance with Level III is to be provided where labor intensive work is being completed such as during hand work, pavement sawing, project inspection, materials testing, and flagging.

Acceptable light sources will be Contractor furnished stand-alone lights or vehicle/equipment mounted lights. Stand-alone units will be marked with a minimum of two reflectorized drums on an approaching traffic side.

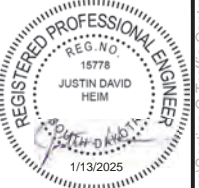
Cost for this lighting will be included in the contract lump sum price for "Traffic Control, Miscellaneous".

# TABLE OF TEMPORARY TRAFFIC CONTROL

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 6353(00)	C3	C14

Plotting Date: 1/7/2025



TRAFFIC CONTROL SIGN TABLE

Sign	R3-30	R4-7B	R5-12	R8-3	R11-2	R11-4	W20-1	Sign Area (SF)	TYPE III BARRICADE 8' wide
Phase	30"x36"	24"x30"	24"x30"	24"x24"	48"x30"	60"x30"	36"x36"		
1	0	2	5	0	4	2	3	127	14
2	0	6	0	0	2	1	4	98.5	7
3	2	0	0	6	2	0	1	68	6
4A	0	2	0	6	2	1	1	75.5	7
4B	0	2	0	0	1	0	1	29	3
Max	2	6	5	6	4	2	4	195	14

DETOUR AND RESTRICTION SIGN TABLE

Sign	M4-9L	M4-9R	MR-9S	M4-8A	W20-2	"TRUCK"	"WESTERN AVE"	"MICKELSO N ROAD"	"DIAMOND TRAIL"	Sign Area (SF)
Phase	30"x24"	30"x24"	30"x24"	24"x18"	36"x36"	12"x24"	12"x48"	24"x36"	24"x36"	
1	6	6	8	1	1	12	15	0	0	196
2	3	3	0	0	1	0	0	3	0	57
3	3	3	0	0	0	0	0	0	0	30
4A	3	3	0	0	0	0	0	0	1	36
4B	0	0	0	0	0	0	0	0	0	0
Max	6	6	8	1	1	12	15	3	1	220

# PHASE 1 TEMPORARY TRAFFIC CONTROL

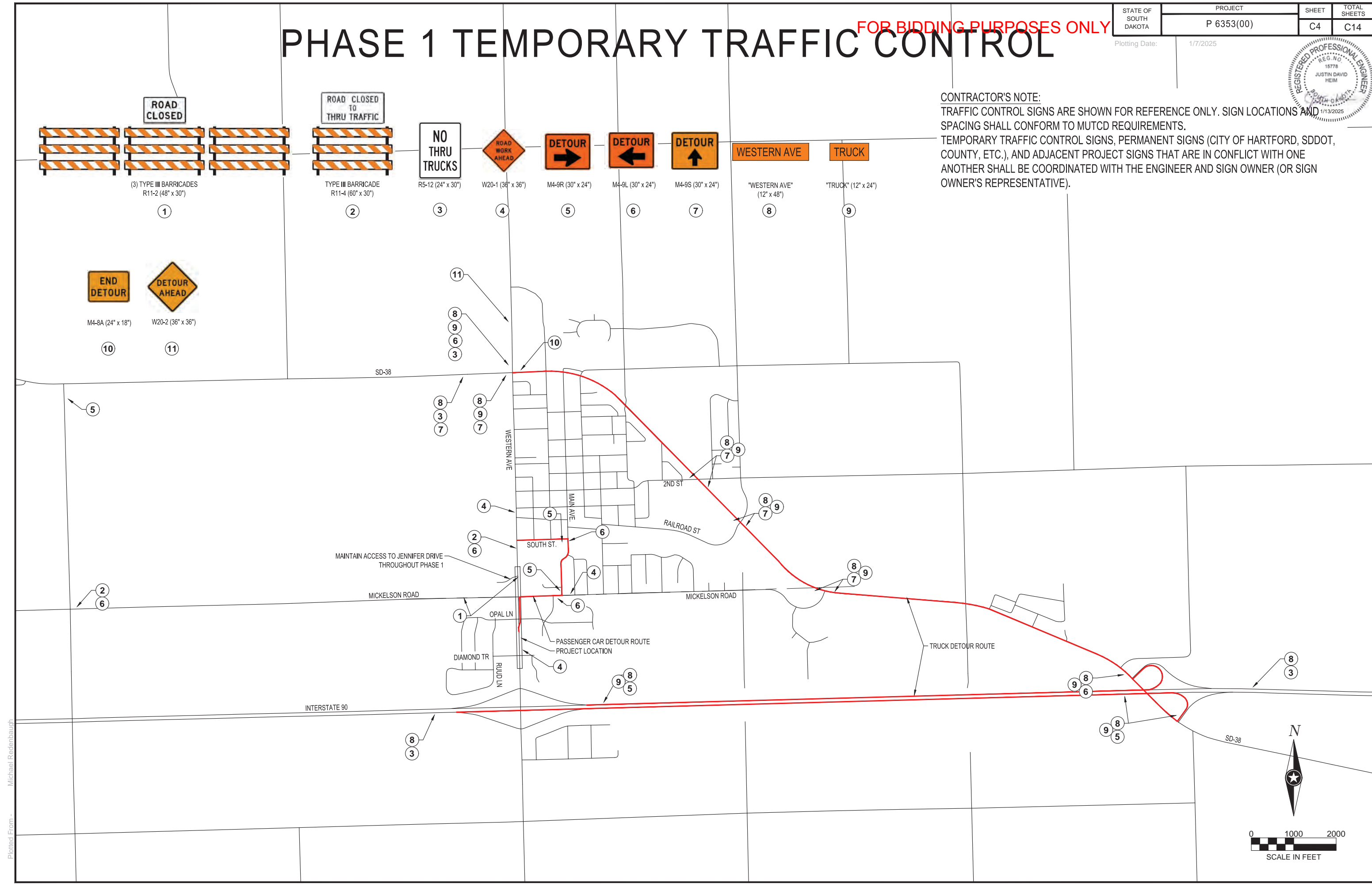
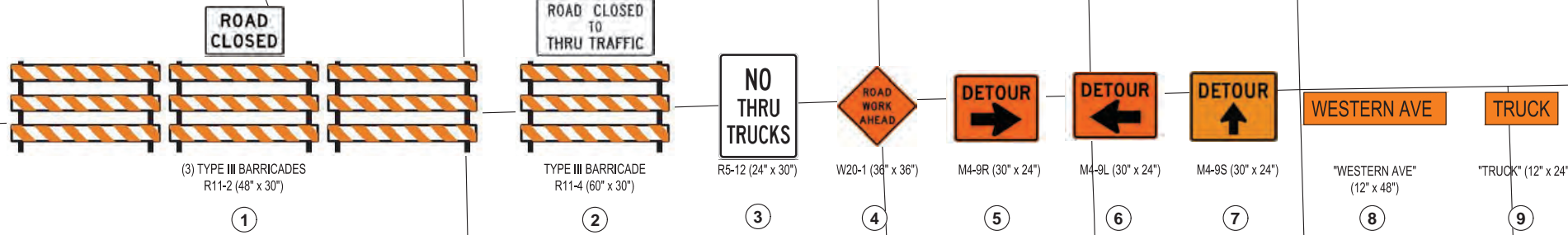
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT P 6353(00)	SHEET C4	TOTAL SHEETS C14
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Plotting Date: 1/7/2025



**CONTRACTOR'S NOTE:**  
 TRAFFIC CONTROL SIGNS ARE SHOWN FOR REFERENCE ONLY. SIGN LOCATIONS AND SPACING SHALL CONFORM TO MUTCD REQUIREMENTS. TEMPORARY TRAFFIC CONTROL SIGNS, PERMANENT SIGNS (CITY OF HARTFORD, SDDOT, COUNTY, ETC.), AND ADJACENT PROJECT SIGNS THAT ARE IN CONFLICT WITH ONE ANOTHER SHALL BE COORDINATED WITH THE ENGINEER AND SIGN OWNER (OR SIGN OWNER'S REPRESENTATIVE).



Plotted From: Michael Redenbaugh




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CONTRACTOR'S NOTE:

PHASE 1 INCLUDES THE CONSTRUCTION OF ROADWAY, CURB AND GUTTER, STORM SEWER TRUNK AND LATERALS, INTAKES, JUNCTION BOXES, GRADING, RESTORATION, SANITARY SEWER, AND WATERMAIN WITHIN THE AREA SHOWN BELOW. STORM SEWER AND LATERALS CONNECTING TO A FUTURE PHASE SHALL BE STUBBED ADEQUATELY TO FACILITATE A FUTURE CONNECTION. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY HANDOFFS, CONNECTIONS, ETC. BETWEEN PHASES AND SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN DRAINAGE THROUGH THE PROJECT. AT NO POINT WILL RUNOFF BE ALLOWED TO POND AND CAUSE DAMAGE TO PRIVATE PROPERTY OR ENCR OACH UPON THE ROADWAY, INCLUDING EXISTING, PROPOSED, AND TEMPORARY.

TEMPORARY ASPHALT SURFACING INSTALLATION AND REMOVAL AND AGGREGATE BASE INSTALLATION ARE PAID AS THEIR OWN BID ITEMS WITHIN THE CONTRACT. UNCLASSIFIED EXCAVATION REQUIRED TO PROPERLY GRADE THE TEMPORARY SURFACE WILL NOT BE PAID SEPARATELY AS THIS GRADING WILL BE UTILIZED TO MEET FINISHED GRADES.

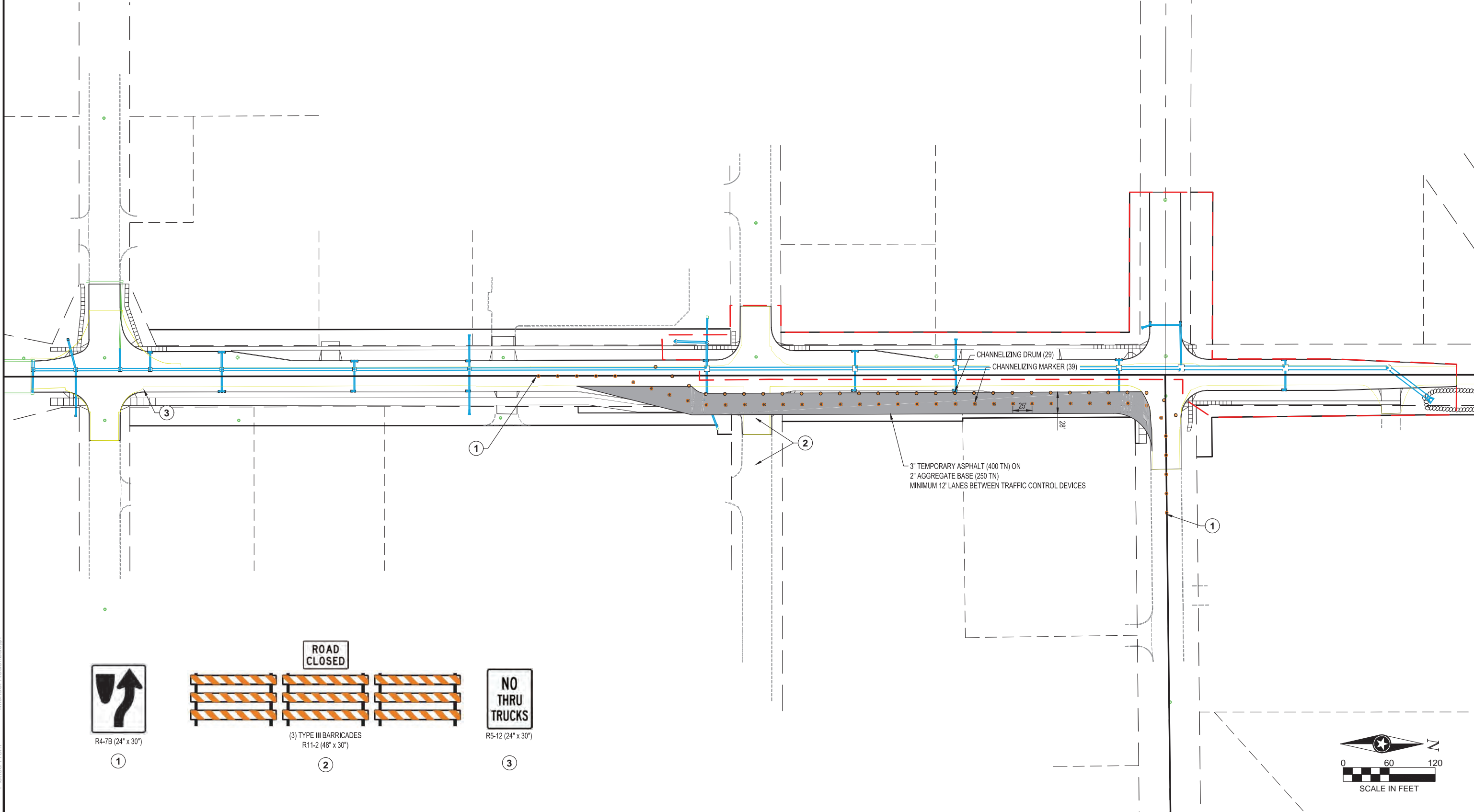
-  PHASE 1 WORK AREA
-  PREVIOUSLY COMPLETED PHASES
-  TEMPORARY PAVEMENT

# TEMPORARY TRAFFIC CONTROL PHASE 1

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT P 6353(00)	SHEET C5	TOTAL SHEETS C14
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Plotting Date: 1/7/2025



R4-7B (24" x 30")

1



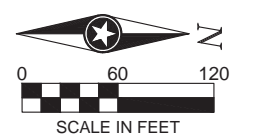
(3) TYPE III BARRICADES  
R11-2 (48" x 30")

2



R5-12 (24" x 30")

3



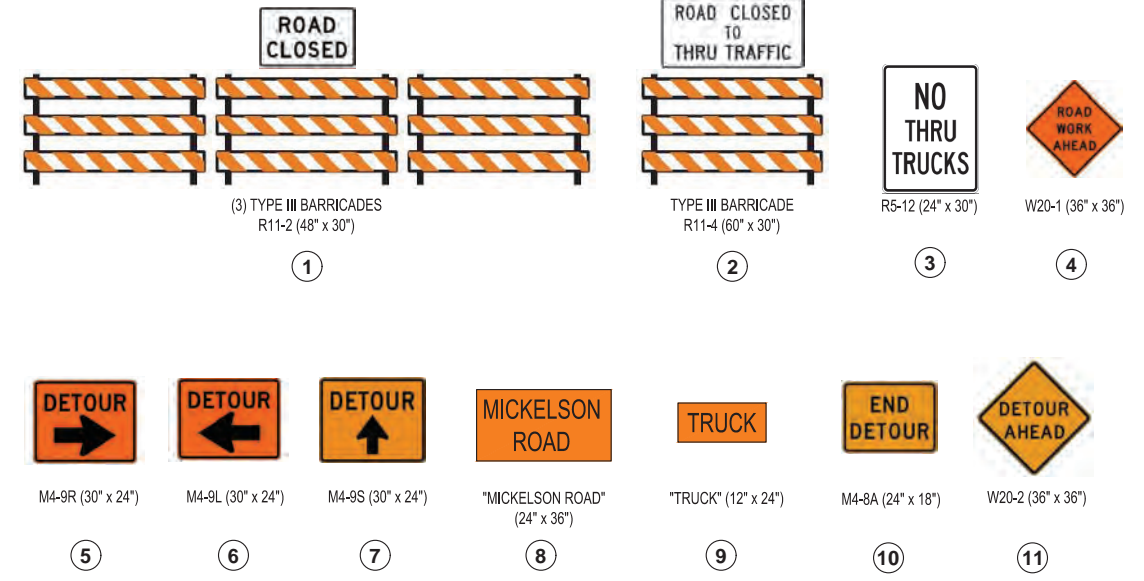
SCALE IN FEET

# PHASE 2 TEMPORARY TRAFFIC CONTROL

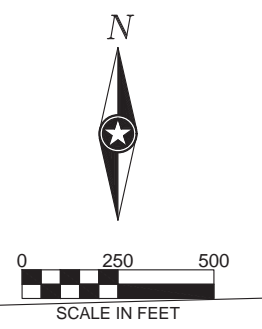
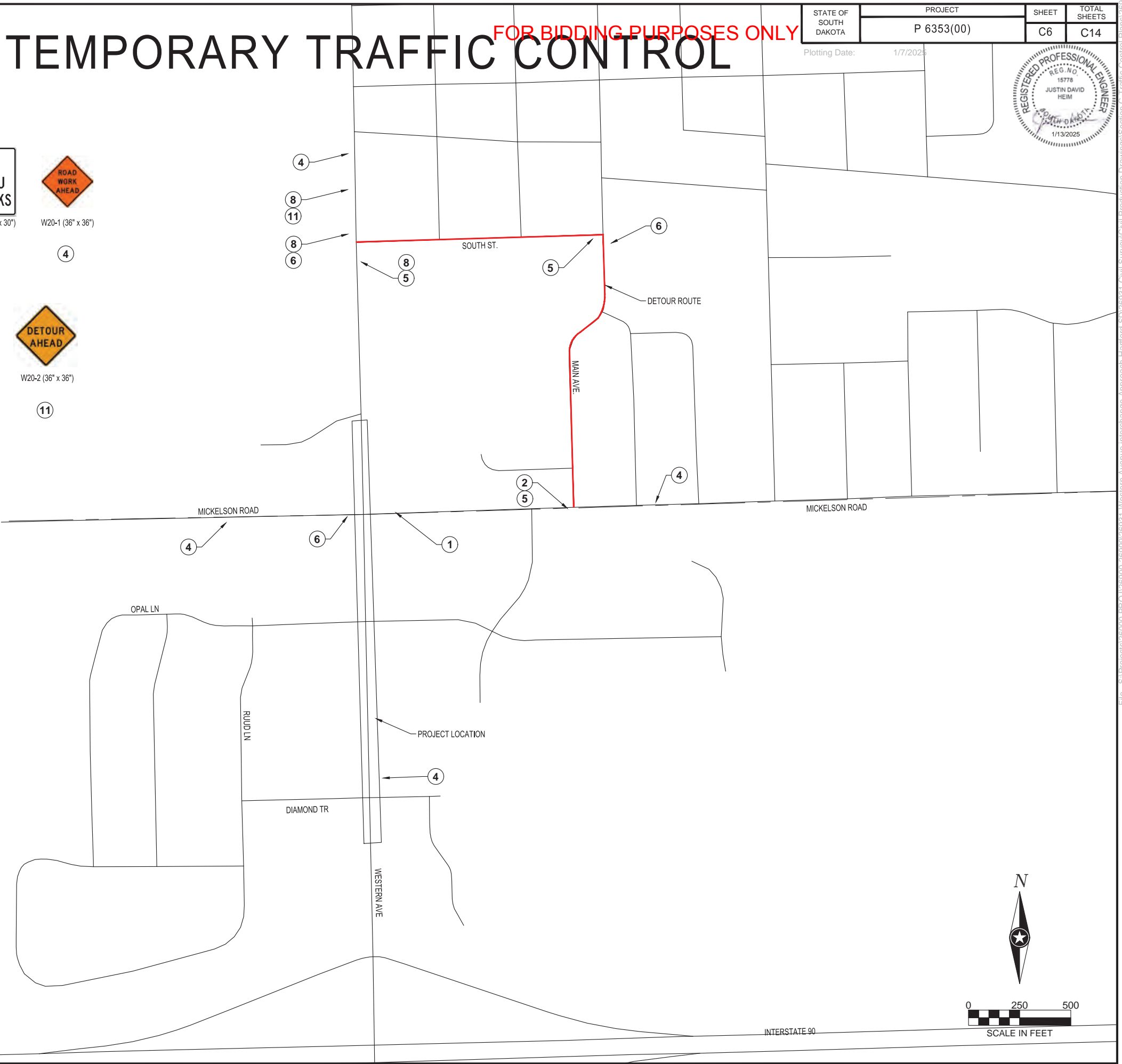
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT P 6353(00)	SHEET C6	TOTAL SHEETS C14
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Plotting Date: 1/7/2025



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Plotted From: Michael Redenbaugh




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CONTRACTOR'S NOTE:

PHASE 2 INCLUDES THE CONSTRUCTION OF ROADWAY, CURB AND GUTTER, STORM SEWER TRUNK AND LATERALS, INTAKES, JUNCTION BOXES, GRADING, RESTORATION, SANITARY SEWER, AND WATERMAIN WITHIN THE AREA SHOWN BELOW. STORM SEWER AND LATERALS CONNECTING TO A FUTURE PHASE SHALL BE STUBBED ADEQUATELY TO FACILITATE A FUTURE CONNECTION. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY HANDOFFS, CONNECTIONS, ETC. BETWEEN PHASES AND SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

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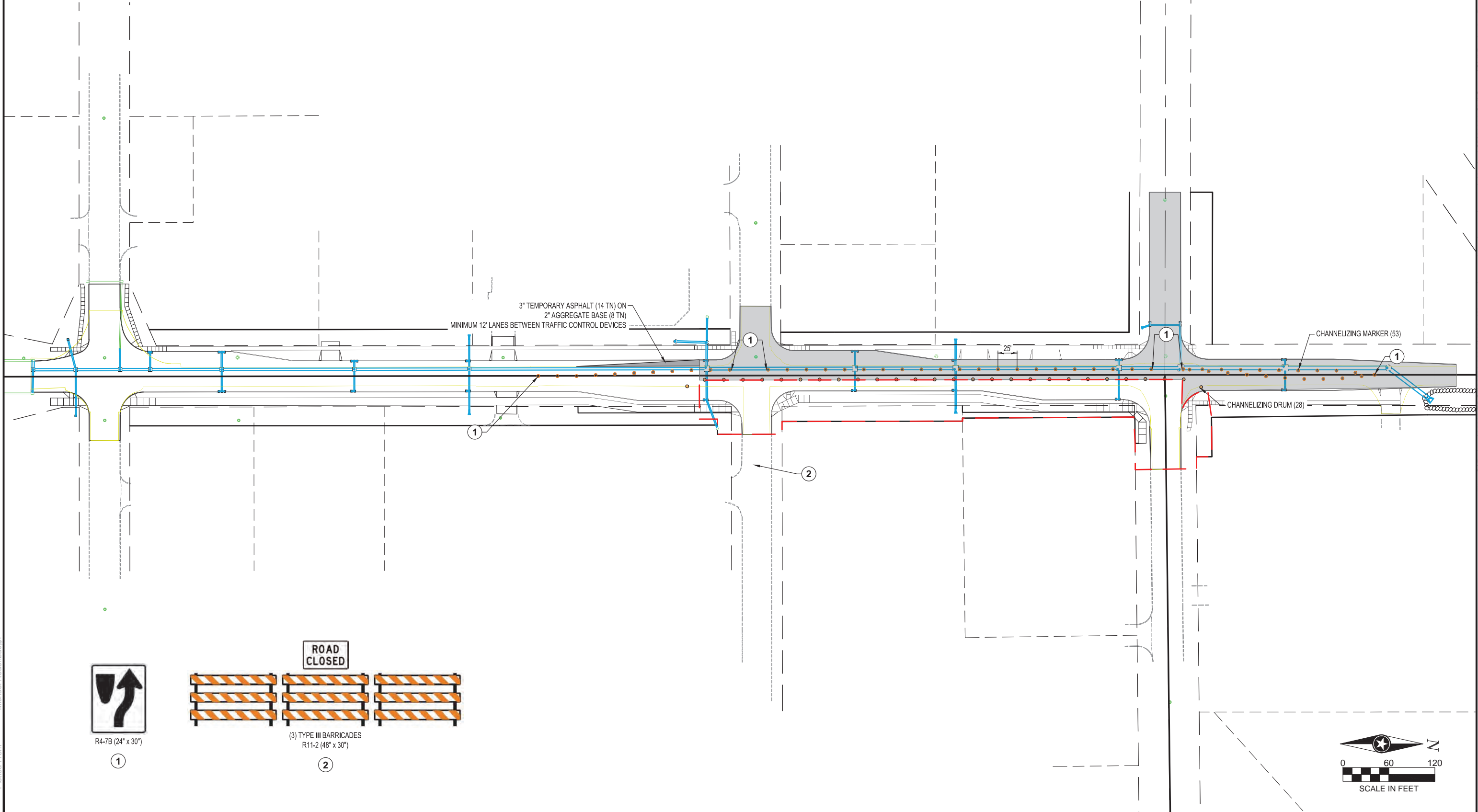
-  PHASE 2 WORK AREA
-  PREVIOUSLY COMPLETED PHASES
-  TEMPORARY PAVEMENT

FOR BIDDING PURPOSES ONLY

# TEMPORARY TRAFFIC CONTROL PHASE 2

STATE OF SOUTH DAKOTA	PROJECT P 6353(00)	SHEET C6	TOTAL SHEETS C14
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Plotting Date: 1/7/2025



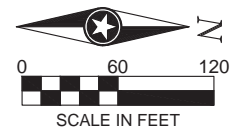
R4-7B (24" x 30")

1



(3) TYPE III BARRICADES  
R11-2 (48" x 30")

2



SCALE IN FEET

Plotted From: Michael Redenbaugh

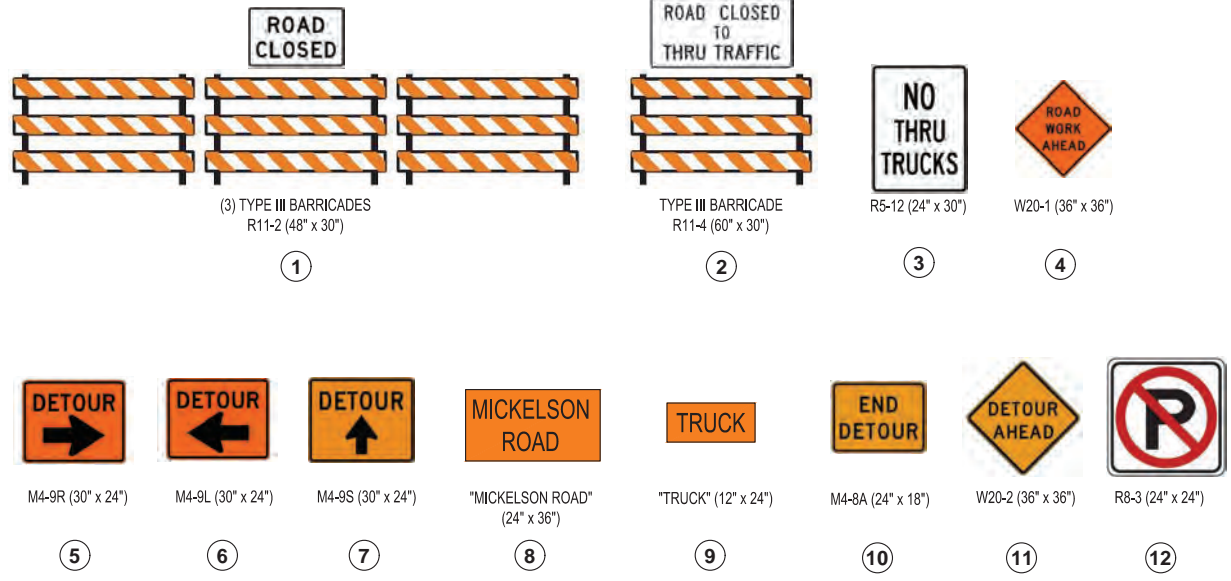
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# PHASE 3 TEMPORARY TRAFFIC CONTROL

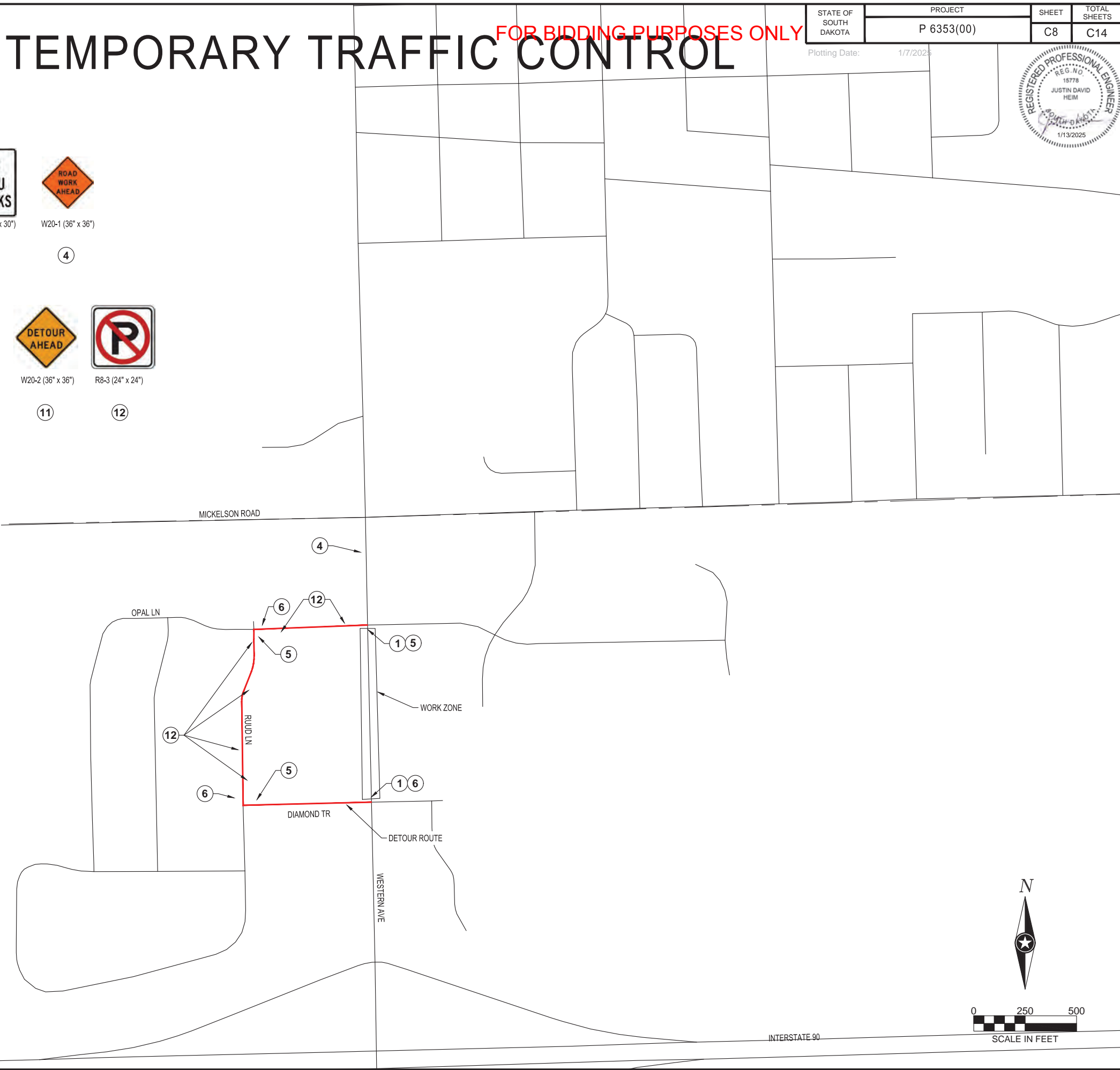
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT P 6353(00)	SHEET C8	TOTAL SHEETS C14
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Plotting Date: 1/7/2025



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CONTRACTOR'S NOTE:

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CONTRACTOR TO INSTALL FINAL PAVEMENT MARKINGS ON WORK COMPLETED IN PRIOR PHASES TO AID TRAFFIC CONTROL MEASURES.

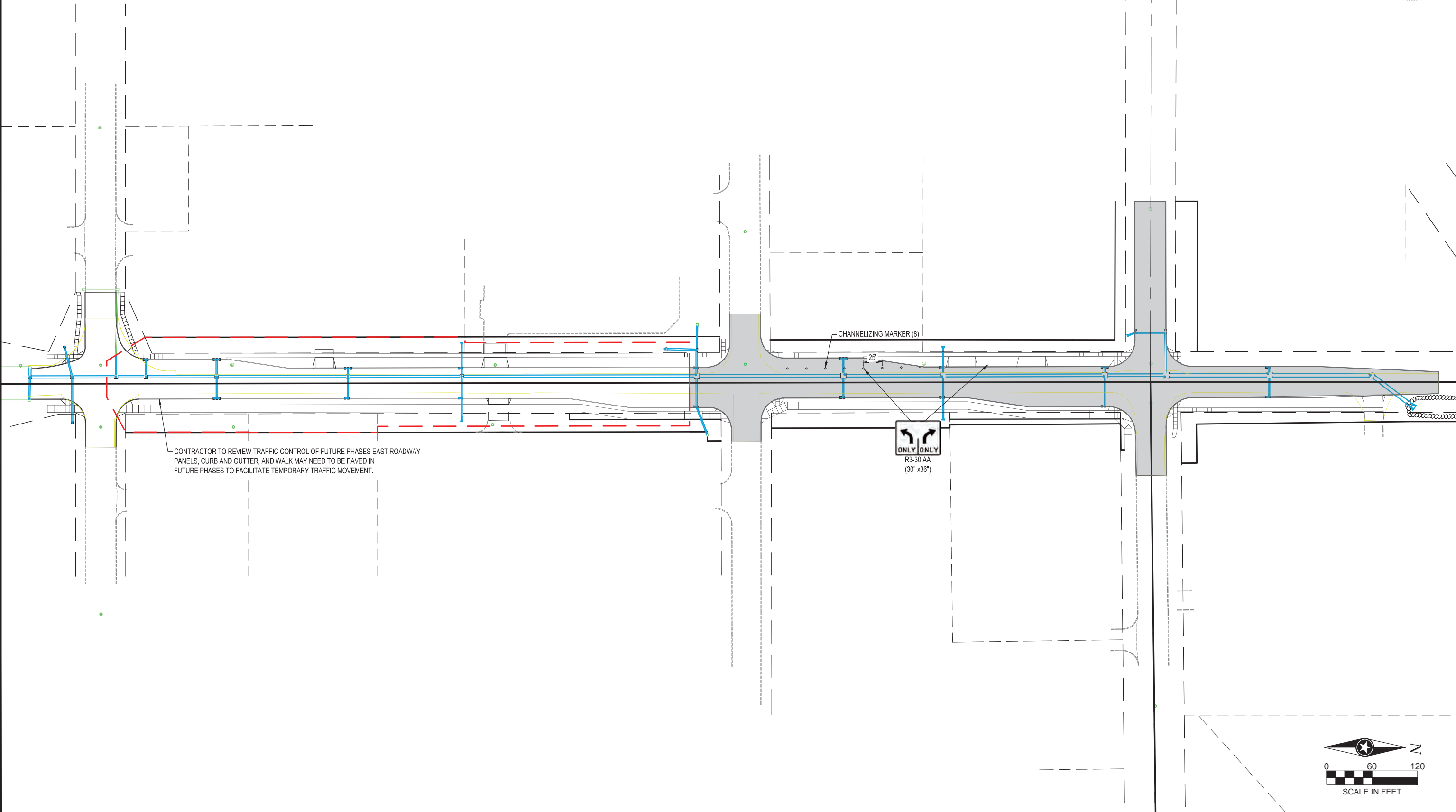
-  PHASE 3 WORK AREA
-  PREVIOUSLY COMPLETED PHASES
-  TEMPORARY PAVEMENT

FOR BIDDING PURPOSES ONLY

# TEMPORARY TRAFFIC CONTROL PHASE 3

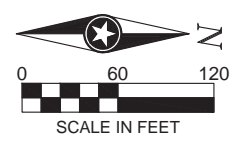
STATE OF SOUTH DAKOTA	PROJECT P 6353(00)	SHEET C9	TOTAL SHEETS C14
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Plotting Date: 1/7/2025



CONTRACTOR TO REVIEW TRAFFIC CONTROL OF FUTURE PHASES EAST ROADWAY PANELS, CURB AND GUTTER, AND WALK MAY NEED TO BE PAVED IN FUTURE PHASES TO FACILITATE TEMPORARY TRAFFIC MOVEMENT.

ONLY ONLY  
R3-30 AA  
(30" x36")

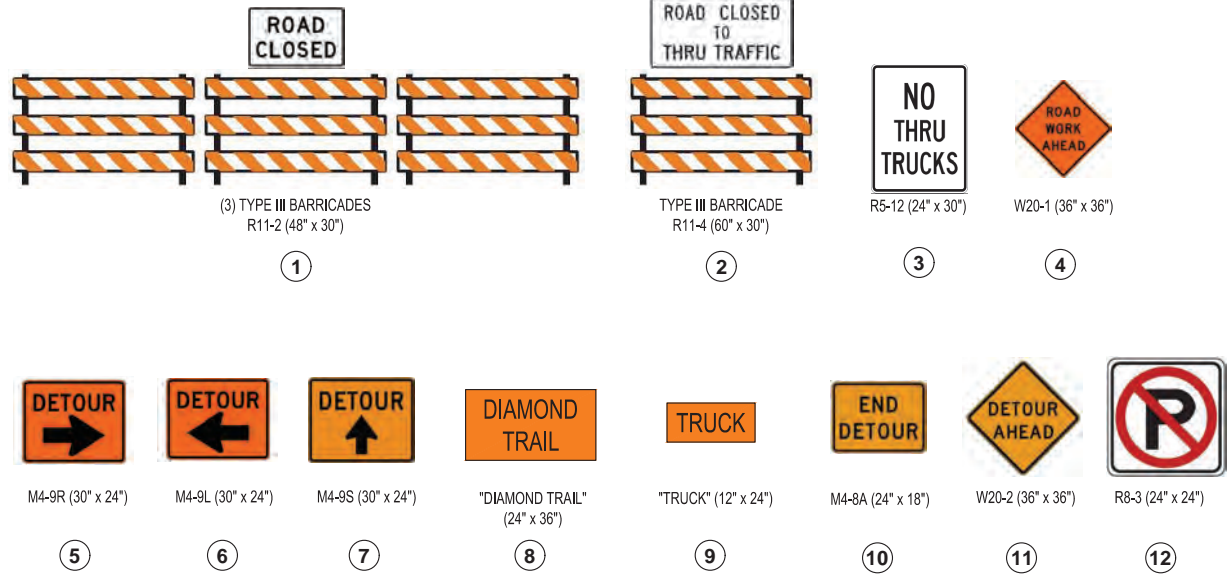


# PHASE 4A TEMPORARY TRAFFIC CONTROL

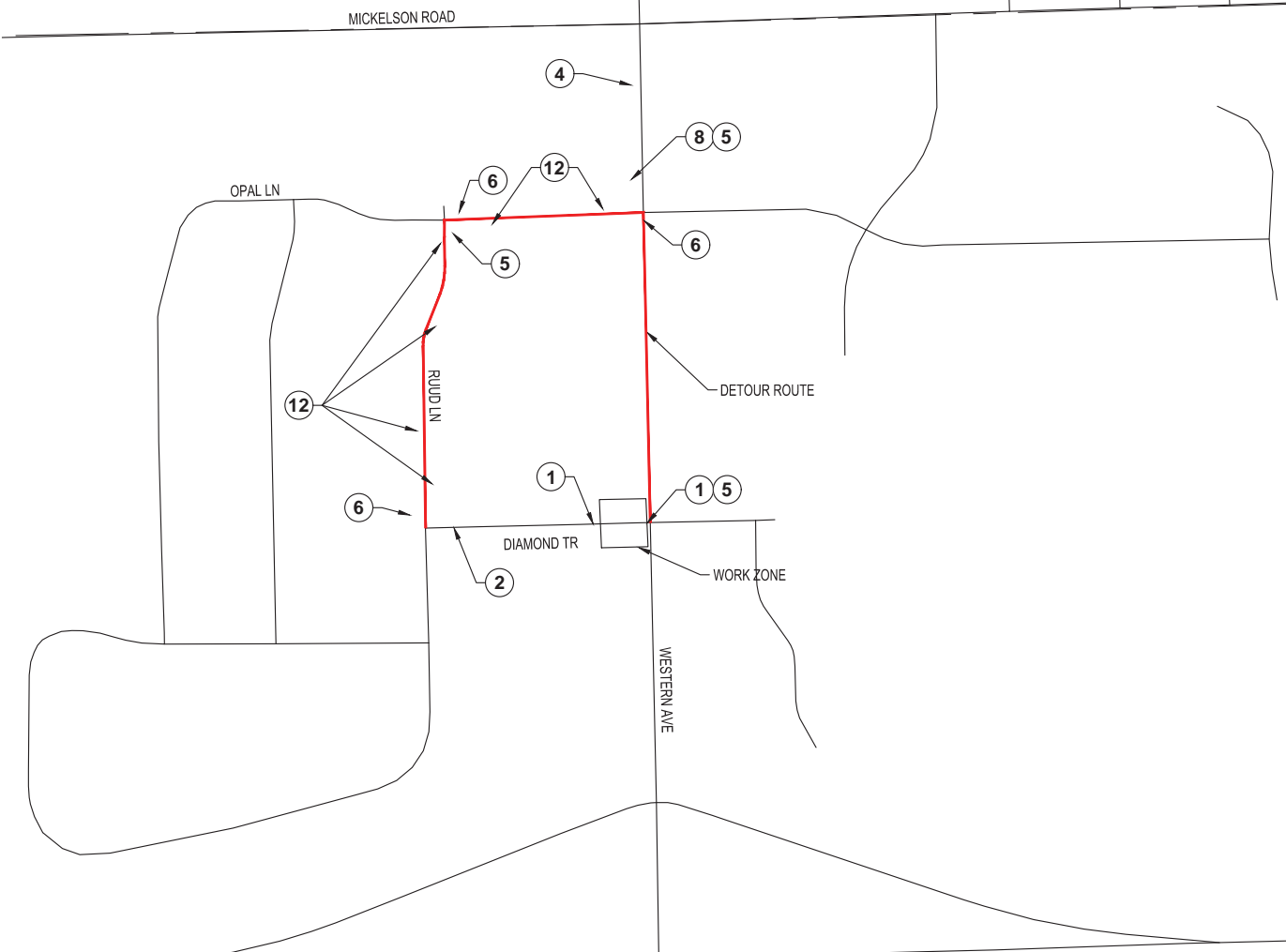
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STATE OF SOUTH DAKOTA	PROJECT P 6353(00)	SHEET C10	TOTAL SHEETS C14
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Plotting Date: 1/7/2025



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CONTRACTOR'S NOTE:

PHASE 4A INCLUDES THE CONSTRUCTION OF ROADWAY, CURB AND GUTTER, STORM SEWER TRUNK AND LATERALS, INTAKES, JUNCTION BOXES, GRADING, RESTORATION, SANITARY SEWER, AND WATERMAIN WITHIN THE AREA SHOWN BELOW. STORM SEWER AND LATERALS CONNECTING TO A FUTURE PHASE SHALL BE STUBBED ADEQUATELY TO FACILITATE A FUTURE CONNECTION. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY HANDOFFS, CONNECTIONS, ETC. BETWEEN PHASES AND SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

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CONTRACTOR TO INSTALL FINAL PAVEMENT MARKINGS ON WORK COMPLETED IN PRIOR PHASES TO AID TRAFFIC CONTROL MEASURES.

PHASES 4A AND 4B MAY BE COMPLETED INTERCHANGEABLY, AS DETERMINED BY THE PHASING AND TRAFFIC ON THE ADJACENT SD DOT PROJECT. HOWEVER, A MINIMUM 2 THROUGH LANES MUST BE COMPLETED WITHIN WHICHEVER PHASE IS COMPLETED FIRST

-  PHASE 3 WORK AREA
-  PREVIOUSLY COMPLETED PHASES
-  TEMPORARY PAVEMENT



R4-7B (24" x 30")

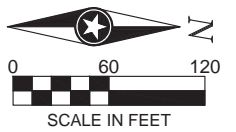
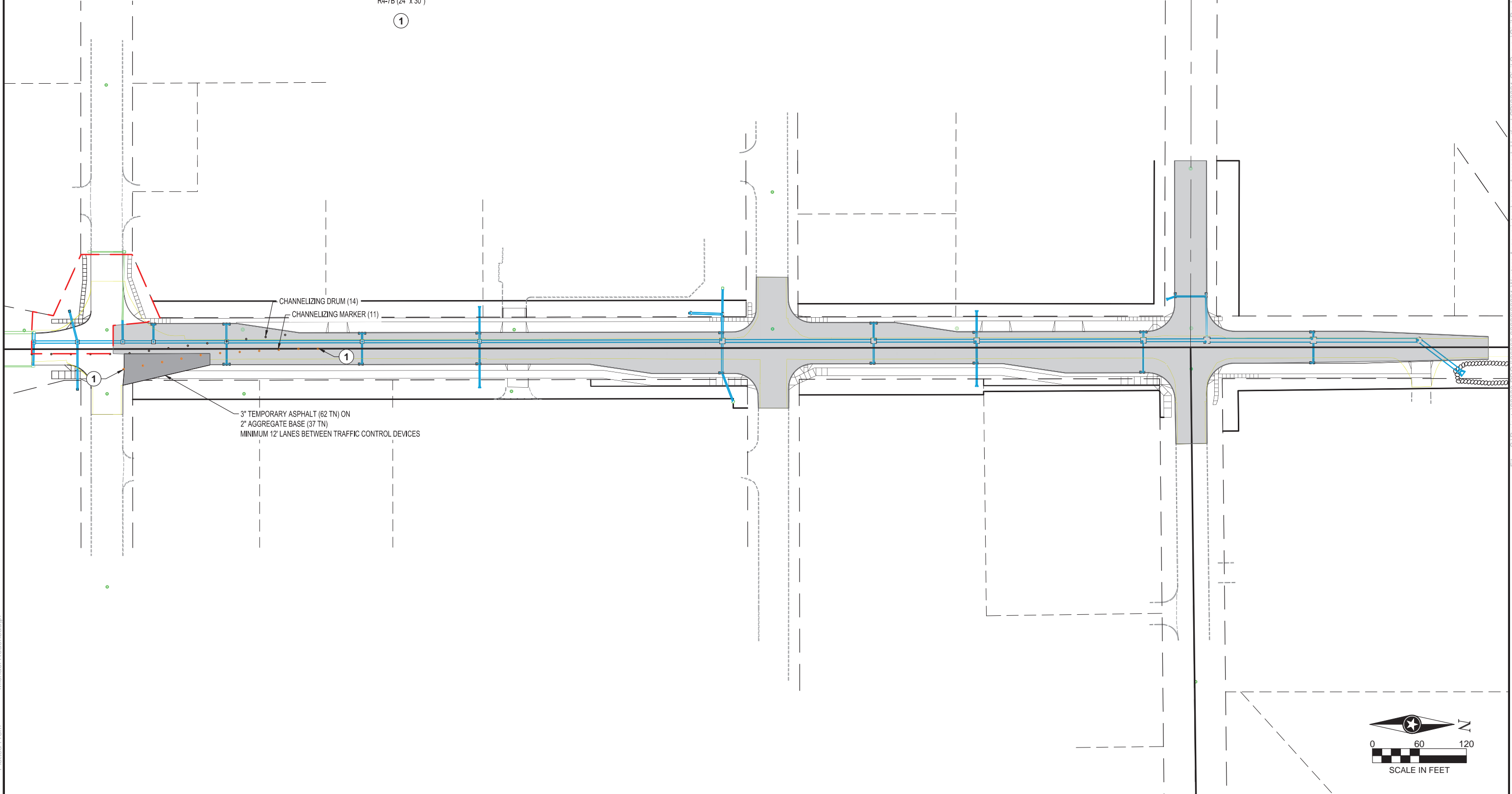
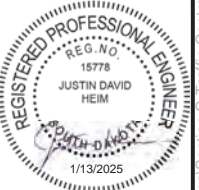
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FOR BIDDING PURPOSES ONLY

# TEMPORARY TRAFFIC CONTROL PHASE 4A

STATE OF SOUTH DAKOTA	PROJECT P 6353(00)	SHEET C11	TOTAL SHEETS C14
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Plotting Date: 1/7/2025






CONTRACTOR'S NOTE:

PHASE 4B INCLUDES THE CONSTRUCTION OF ROADWAY, CURB AND GUTTER, STORM SEWER TRUNK AND LATERALS, INTAKES, JUNCTION BOXES, GRADING, RESTORATION, SANITARY SEWER, AND WATERMAIN WITHIN THE AREA SHOWN BELOW. STORM SEWER AND LATERALS CONNECTING TO A FUTURE PHASE SHALL BE STUBBED ADEQUATELY TO FACILITATE A FUTURE CONNECTION. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY HANDOFFS, CONNECTIONS, ETC. BETWEEN PHASES AND SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

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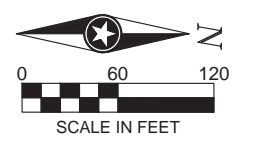
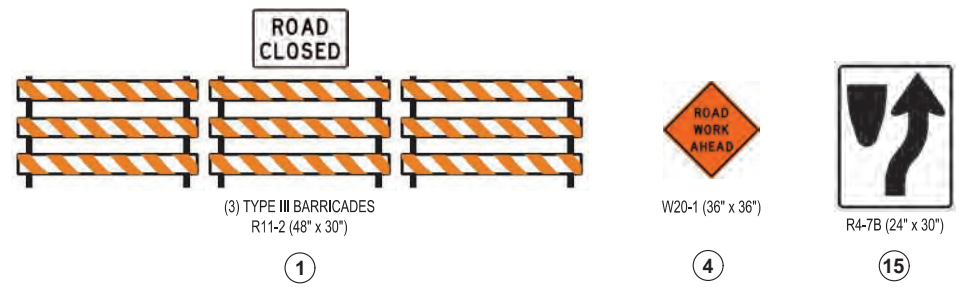
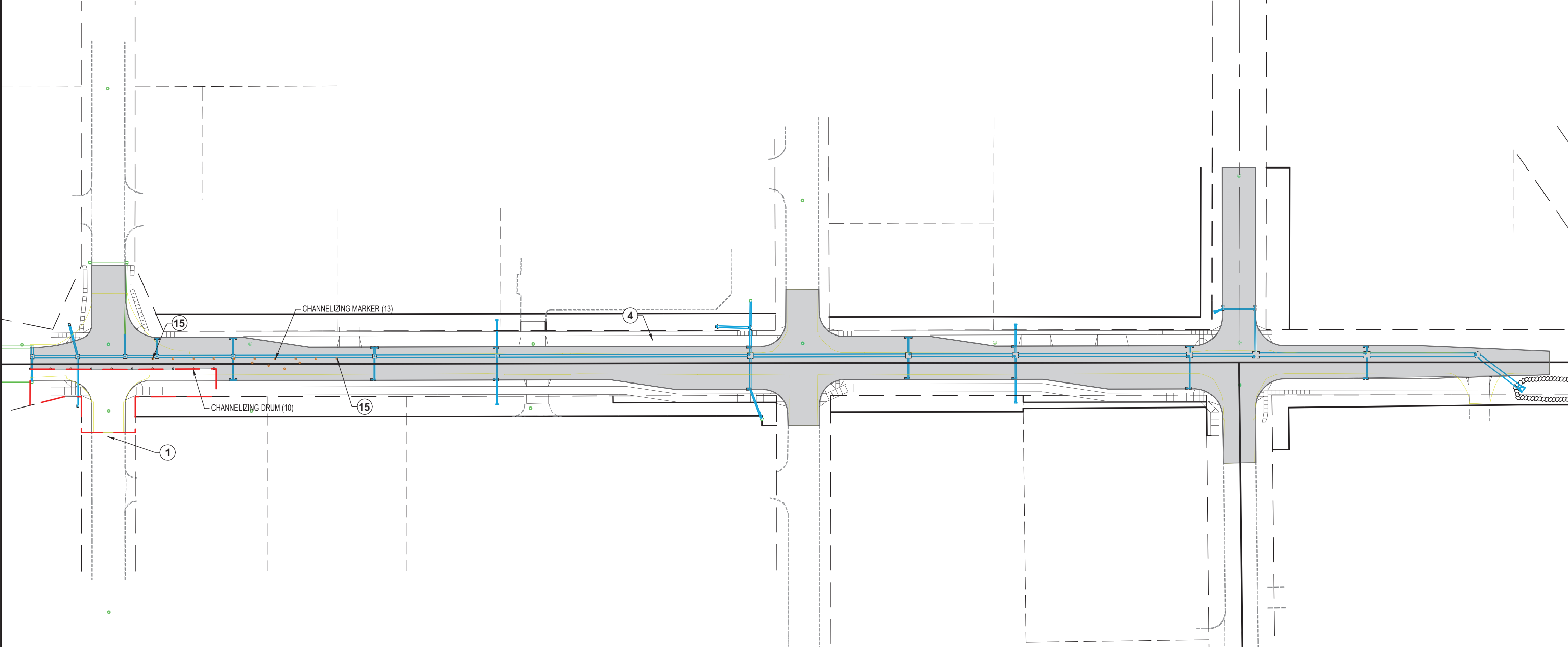
-  PHASE 3 WORK AREA
-  PREVIOUSLY COMPLETED PHASES
-  TEMPORARY PAVEMENT

# TEMPORARY TRAFFIC CONTROL PHASE 4B

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT P 6353(00)	SHEET C12	TOTAL SHEETS C14
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Plotting Date: 1/7/2025



Plotted From: Michael Redenbaugh

File - S:\Projects\26000\PR00269900\PR00269900\Western Avenue Interchange Approach-Hanford SD\26931 - Civil\Survey\Civil Production Drawings\Section C-Traffic Control\Plans\26931 C



### Traffic Control (Typical Lane Closure)

Taper formula:

$$L = S \times W \text{ for speeds of 45 or more.}$$

$$L = WS^2/60 \text{ for speeds of 40 or less.}$$

Where:

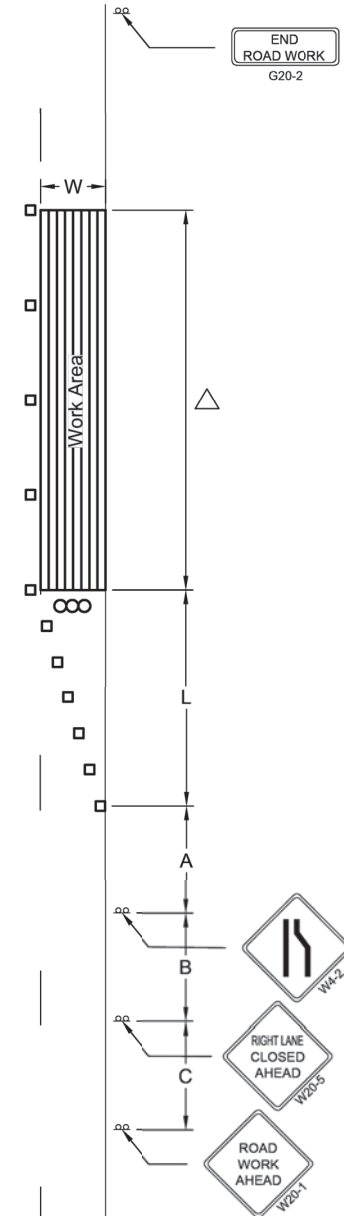
- L = Minimum length of taper
- S = Numerical value of posted speed limit prior to work or 85th percentile speed.
- W = Width of offset.

- Channelizing devices
- ∞ Arrow panel
- △ Spacing between devices shall be up to 2 times the numerical value of the posted speed limit prior to work.

**Note:**  
The maximum spacing between channelizing devices in a taper shall be approximately equal in feet to the speed limit.

If the road has an AADT of less than 20,000, the closure is not in place overnight, and the speed is less than 40 mph, the W20-5 sign is optional.

Posted speed prior to work (M.P.H.)	Spacing of advance warning signs (Feet) (A) (B) (C)	Taper length (Feet) (L)
0 - 25	100 - 200	$\frac{W \cdot S^2}{60}$
30	120 - 240	$\frac{W \cdot S^2}{60}$
35	140 - 280	$\frac{W \cdot S^2}{60}$
40	160 - 320	$\frac{W \cdot S^2}{60}$
45	180 - 360	W · S
50	200 - 400	W · S
55	220 - 440	W · S



Revised: September 2010

<p>CITY OF SIOUX FALLS <b>PUBLIC WORKS</b> Providing a Better Quality of Life for You!</p>	<p><b>Typical Application - Construction Operations</b> <b>Typical Lane Closure</b></p>	<p>Specification Reference No. 634</p>	<p>Plate Number 634.01</p>

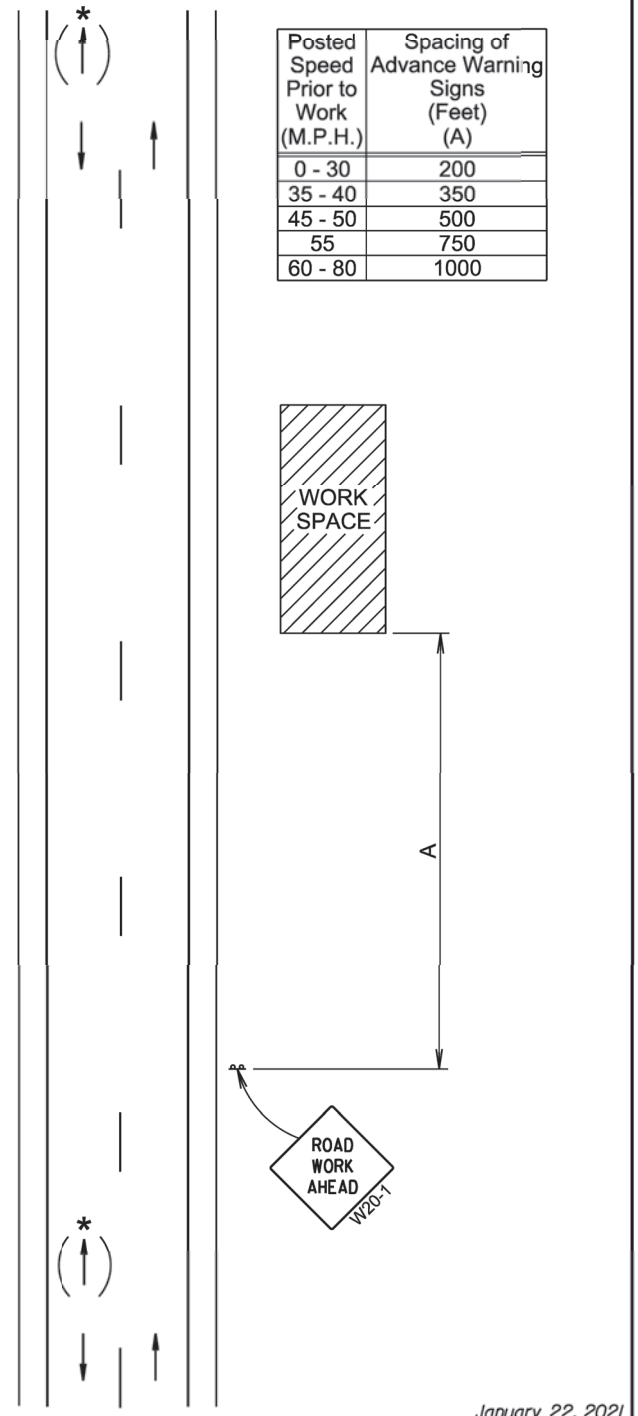
The signs illustrated are not required if the work space is behind a barrier, more than 2 feet behind the curb, or 15 feet or more from the edge of any roadway.

The signs illustrated will be used where there are distracting situations; such as: vehicles parked on shoulder, vehicles accessing the work site via the highway, and equipment traveling on or crossing the roadway to perform work operations.

The ROAD WORK AHEAD sign may be replaced with other appropriate signs, such as the SHOULDER WORK sign. The SHOULDER WORK sign may be used for work adjacent to the shoulder.

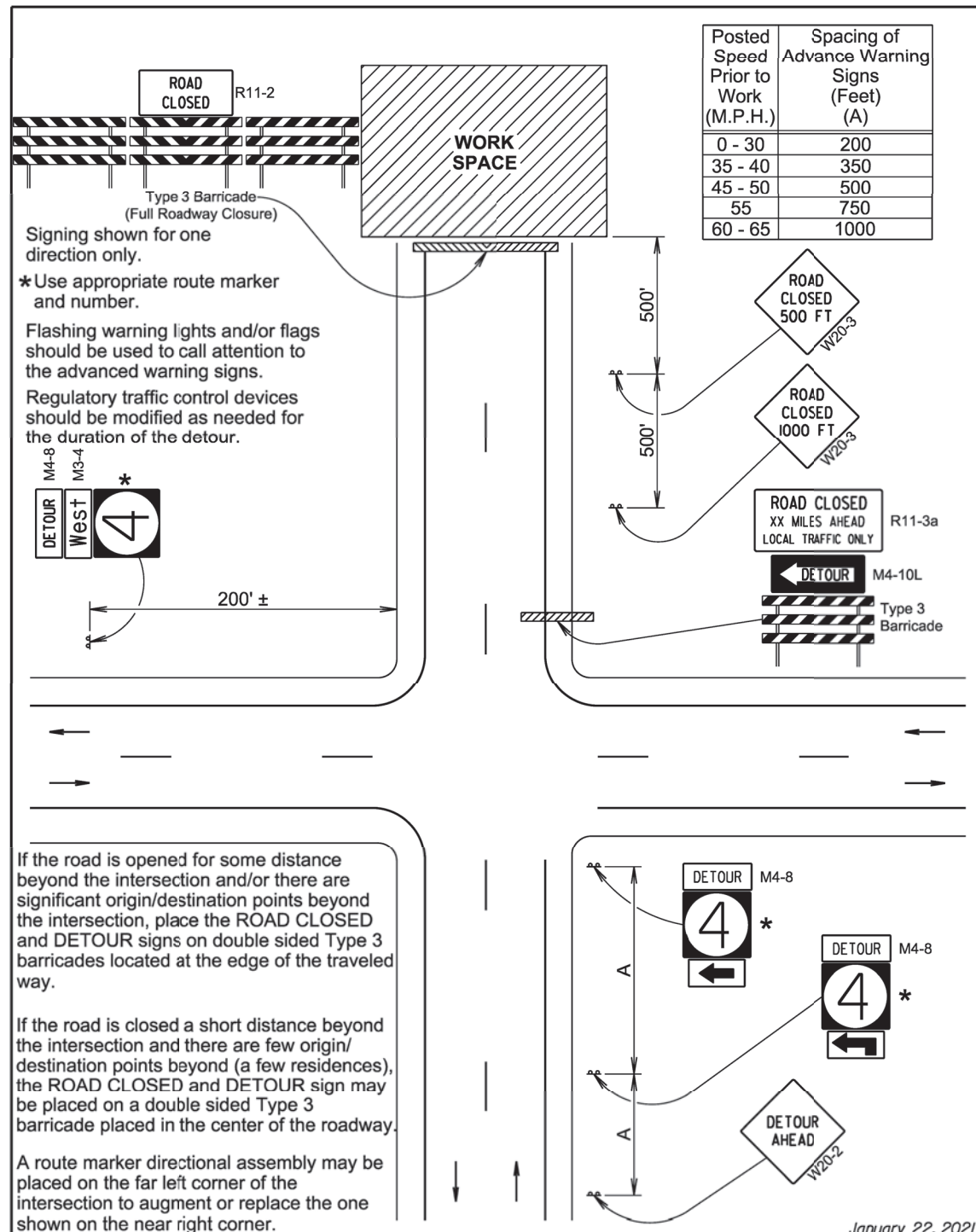
\* If the work space is on a divided highway, an advance warning sign should also be placed on the left side of the directional roadway.

For short term, short duration, or mobile operations, all signs and channelizing devices may be eliminated if a vehicle with an activated flashing or revolving yellow light is used.



January 22, 2021

<p>Published Date: 2025</p>	<p><b>S D D O T</b></p>	<p><b>WORK BEYOND THE SHOULDER</b></p>	<p>PLATE NUMBER 634.01</p>
			<p>Sheet 1 of 1</p>



January 22, 2021

Published Date: 2024	<b>S D D O T</b>	<b>ROAD CLOSED WITH OFF-SITE DETOUR</b>	PLATE NUMBER 634.29
			Sheet 1 of 1