

# SECTION C: TRAFFIC CONTROL PLANS

FOR BIDDING PURPOSES ONLY



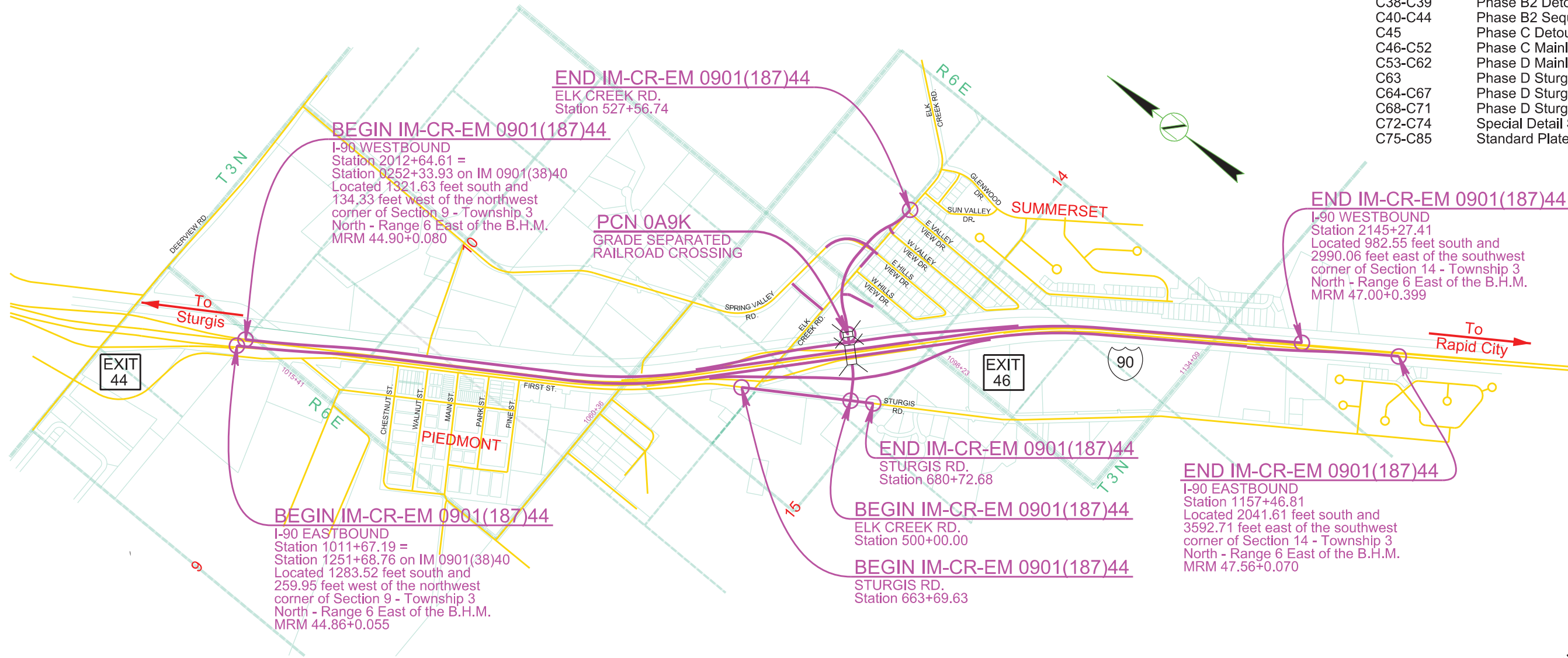
STATE OF SOUTH DAKOTA

PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	C1	C85

Plotting Date: 4/8/2026  
 Rev: 2/14/2025 BRC  
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Plot Scale - 1:1400

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**SECTION C ESTIMATE OF QUANTITIES**

**Section C - Traffic Control**

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BID ITEM NUMBER	ITEM	QUANTITY	UNIT
004E0030	Maintenance of Traffic Diversion(s)	Lump Sum	LS
004E0050	Remove Traffic Diversion(s)	Lump Sum	LS
634E0010	Flagging	5,000.0	Hour
634E0020	Pilot Car	1,000.0	Hour
634E0110	Traffic Control Signs	3,167.8	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0135	Traffic Control Supervisor	Lump Sum	LS
634E0275	Type 3 Barricade	51	Each
634E0330	Temporary Raised Pavement Markers	10,400	Ft
634E0380	Tubular Marker	399	Each
634E0390	Replace Tubular Marker	20	Each
634E0420	Type C Advance Warning Arrow Board	2	Each
634E0525	Linear Delineation System Panel, Barrier Mounted	462	Each
634E0560	Remove Pavement Marking, 4" or Equivalent	46,268	Ft
634E0600	4" Temporary Pavement Marking Tape Type I	576	Ft
634E0640	Temporary Pavement Marking	40,802	Ft
634E0700	Traffic Control Movable Concrete Barrier	462	Each
634E0705	Remove and Reset Traffic Control Movable Concrete Barrier	885	Each
634E0750	Temporary Concrete Barrier End Protection	12	Each
634E0755	Remove and Reset Temporary Concrete Barrier End Protection	30	Each
634E0760	Temporary Concrete Barrier End Protection Module Set or Repair Kit	5	Each
634E1002	Detour and Restriction Signing	837.4	SqFt
634E1215	Contractor Furnished Portable Changeable Message Sign	4	Each
634E1240	Queue Detection System	20	Each

Plot Scale - 1:200

Plotted From - Bayley.Colemer

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## 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 State.

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.

Non-applicable traffic control devices will be completely covered or removed during periods of inactivity. Periods of inactivity will be defined as no work taking place for a period of more than 2 calendar days.

Night work allowed during hours of darkness will comply with the Lighting for Nighttime Work note. The following items will be performed as Nighttime Work:

- Str. # 47-098-563 Present Elk Creek Bridge – Bridge deck demo and girder removal.
- Str. # 47-098-563 Elk Creek Bridge – Girder Placement
- Str. # 47-098-563 Elk Creek Bridge – Bridge Deck Placement

Temporary Flexible Vertical markers (Tabs) will be used for lane closure tapers or lane shifts and Raised Pavement Markers (RPM) will be used for the centerline, with both being installed at 5' spacing. All costs associated with maintaining (including replacement as required by the Engineer at no added cost to the State), and removal of all markers will be incidental to the contract per foot for Temporary Pavement Markings.

A 12' width restriction will be put in place on Interstate 90 for work on this project during the reconstruction of the interstate 90 lanes.

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.

Traffic will be maintained on the driving lanes. Use of the shoulder as a driving lane will not be permitted. Any damage to the shoulder due to rerouted traffic or Contractor's equipment will be repaired at no expense to the State.

The Contractor will furnish, install, maintain, and remove TRUCK CROSSING (W8-6) signs daily. The TRUCK CROSSING signs will be displayed always when haul vehicles are hauling material. When hauling conditions no longer exist, the signs will be covered or removed from view. The exact number and location will be determined during construction. Payment for additional signs will be based on the contract unit price per square foot for "Traffic Control Signs".

GROOVED PAVEMENT (W8-15) signs with MOTORCYCLE (W8-15P) plaques are required in advance of areas that have been cold milled and are not resurfaced the same day. The GROOVED PAVEMENT sign assemblies will be installed a minimum of 1000 feet in advance of cold milled sections and remain in place until the sections have been resurfaced.

The Contractor will notify businesses/homeowners in the City of Piedmont a minimum of two weeks prior to planned construction to inform them of upcoming construction and again a minimum of 48 hours prior to any blocked access points. The Contractor is responsible for providing an alternate access while the main access point is under construction.

If inappropriate or conflicting pavement markings exist, the markings will be removed and replaced with applicable Temporary Pavement Markings when the work duration is more than 3 days. When the work duration is less than 3 days, the channelizing devices in the area where the pavement markings conflict will be placed at one-half of the normal channelizing device spacing. Pavement marking removals will be incidental to the contract unit price per foot for "Remove Pavement Marking, 4" or equivalent". Temporary Pavement Marking will be paid for at the contract unit price per mile/foot for "Temporary Pavement Marking". The additional channelizing devices will be incidental to the contract lump sum price for "Traffic Control, Miscellaneous".

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 ¼ mile.

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

When vehicular access points are constructed in phases as identified in the plan sheets, the access width will be 12 feet in each direction, for a total of 24 feet, unless otherwise noted in the plans or notes.

During certain phases of construction, as detailed in the Sequence of Operations, steel plates will be required to cover drop inlets and have temporary surfacing placed and secured over the steel plates. These plates must be of sufficient thickness and size to support legal highway loads. The Contractor will submit design and details to the SDDOT Office of Bridge Design for review at least 10 working days prior to installation. All costs for this work will be incidental to the installation of the drop inlets.

Construction activities may occur either prior to or after the Sturgis Motorcycle Rally period, subject to Contract Time Provisions. No construction activities or traffic control changes Will occur during the Sturgis Motorcycle Rally period, as directed by the engineer.

If construction activities are performed prior to the Sturgis Motorcycle Rally period, all work zones Will be placed in a stable configuration acceptable to

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the Engineer prior to the rally. Traffic control during the rally period Will not require daily flagging or active lane closures and Will be maintainable.

## TABLE OF TEMPORARY DROP INLET COVERS

Station	L/R
1032+76-105'	R
1033+06-105'	R
1033+30-105'	R
1041+25-58'	R
1053+87-53'	R
1053+87-56'	R

## QUEUE DETECTION SYSTEM

The Contractor will furnish and install a Queue Detection System for I-90 Eastbound and I-90 Westbound in advance of each merging taper.

The system will be capable of detecting slowed and stopped traffic in advance of the merging taper for at least two miles. The detectors will be capable of detecting traffic speeds in 5 mph increments, calculating the average and 85th percentile speeds over a specified period of time, and relaying information to warning systems for preset thresholds to warn drivers of slowed or stopped traffic. All messages displayed on the Portable Changeable Message Signs will be in accordance with the MUTCD.

The Contractor will place the detectors at locations where sight distance, horizontal and vertical geometry, or merging traffic diminish driver recognition of slowed or stopped traffic and place the Portable Changeable Message Signs in advance of those locations at locations where they are the most visible. It is anticipated that 4 detectors and 4 Portable Changeable Message Signs will be required for each eastbound and westbound traffic at an effective spacing of approximately 1 mile between sets of Portable Changeable Message Signs.

During the Sturgis Rally of the second full construction season, additional queue detection will implemented for the duration of the rally. A total of 10 detectors, along with changeable message signs (CMS), will be provided for both eastbound and westbound traffic, spaced at approximately 1-mile intervals. This temporary detection system will extend up to 5 miles beyond the project limits, with two CMS units installed at each detection location.

Detectors may be mounted on arrow boards, portable sensor trailers, or other Portable Changeable Message Signs. The Contractor will submit a proposed deployment layout and messaging for Engineer's approval.



## QUEUE DETECTION SYSTEM CONT.

Each Queue Detection System detector will be capable of establishing priority status based on preset thresholds that are met farthest from the work area and Portable Changeable Message Signs will be capable of receiving messages from multiple detectors, depending on detector priority status.

The system will display the following messages depending on traffic conditions detected and received from the detectors:

During very slow or stopped traffic:

STOPPED  
TRAFFIC  
XX MI AHD

BE  
PREPARED  
TO STOP

During moderately slow traffic:

SLOW  
TRAFFIC  
XX MI AHD

USE  
CAUTION

During times of free-flowing traffic, Portable Changeable Message Signs will display a dot in each of the four corners of the display when not required for end-of-queue notification or incident management.

During times of very slow or stopped traffic where the second preset detector threshold is met (30 mph or less), each set of Portable Changeable Message Signs for that direction will notify travelers of stopped traffic, to be prepared to stop, and the approximate distance to the condition.

During times of moderately slow traffic where the first preset detector threshold is met (between 65 mph and 30 mph), each set of Portable Changeable Message Signs for that direction will notify travelers of slow traffic, to use caution, and the approximate distance to the condition.

When roadwork begins on the project, the Contractor will be responsible for ensuring the system is always operational. This includes the initial and daily system set up and programming and the adjustment and replacement of any parts, materials, and/or appurtenances, when necessary, required of the Queue Detection System. The Contractor's operation and maintenance responsibility will end upon the Engineer's acceptance of the work on the project.

The Contractor will be required to secure Portable Changeable Message Signs in the proper positions. Relocation of sensor trailers and Portable Changeable Message Signs will be required as part of the work involved in maintaining the Queue Detection System. All Portable Changeable Message Signs and sensor trailers will be marked with a minimum of two reflectorized drums.

The Contractor should plan for sufficient staff for the operation, maintenance, adjustments, materials, and replacement of the Queue Detection System. The individual(s) responsible for the installation, operations, and maintenance of the Queue Detection System will be experienced and trained with respect to the installation, setup, operation, and maintenance of the system.

In the event of failure, the Contractor will furnish the necessary advance warning to safely control or warn traffic of the upcoming conditions until the

system is fixed and operational. The Contractor will furnish the advance warning within an hour of the initial awareness of the system failure.

Hardware requirements will be as follows:

Portable Changeable Message Signs will be Ver-Mac 1210 NTCIP PCMS or approved equal. Microwave detectors will be Wavetronix SS125 or 126 or approved equal. Sensor trailers will be Ver-Mac PST or approved equal. Doppler radar detectors will be Houston Radar DR500 or approved equal.

All costs associated with furnishing, installing, operating, maintenance, relocation, including all equipment, and all miscellaneous parts and materials will be incidental to the contract unit price per each for Queue Detection System.

### SEQUENCE OF OPERATIONS

Contractor requests to deviate from the sequence of operations will be submitted in writing to the Engineer for Review. Approval of an alternate 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. An alternate sequence will be submitted for review a minimum of one week prior to potential implementation.

The traffic control staging has been developed to support completion of the work within the Contract Time Provisions.

The following requirements/restrictions will apply:

#### General Requirements:

- Any requests by the Contractor to deviate from the Sequence of Operations, or the provided construction schedule, must be submitted in writing to the Engineer for review and approval at least one week prior to implementation.
- Approval of alternative sequencing is subject to compliance with the State's intent for traffic control and project sequencing.
- Concurrent work may occur across all phases as long as it does not impact the traffic control plan specified for each phase.
- Cold weather limitations, periods of inactivity, and any suspension of work Will be governed by the Contract Time Special Provision.

#### Sturgis Rally Restrictions:

- All lanes of Interstate 90 (I-90) and Interchange operations must remain open during the timeframe of the Sturgis Rally, with the exception of the second full construction season duration.
- Refer to Contract Time Special Provision for specific rally-related restrictions.

#### I-90 Fixed Signing

- Use Standard Plate 634.63, in conjunction with fixed signing sheets C14 and C15, to set Work Zone Speed Reduction for I-90.

#### I-90 Crossover

- Use Standard Plate 634.66 to set 45 mph crossover signing.

#### I-90 Concrete Box Culvert – Shoulder Work

- Use Standard Plate 634.61 to install shoulder closures at Str. No. 47-091-555 (CBC 1), 47-092-556 (CBC 2), 47-093-557 (CBC 3), 47-094-559 (CBC4), 47-104-570 (CBC 5) and 47-106-572 (CBC 6).
- Protect box culvert replacements with temporary concrete barriers.

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#### The following requirements/restriction apply to Interstate 90:

- Maintain two lanes in each direction with a minimum 12-ft width, with the exception of I-90 mainline construction.
- Daytime lane closures require five days' advance notice and approval by the Engineer.
  - Allowable daytime lane closure activities include:
    - Installation/removal of the concrete barriers
    - Box culvert material and equipment delivery to the I90 shoulder
  - New bridge construction
  - New ramp construction
  - Retaining wall material delivery

#### PHASE A – Required concurrent work items to include:

#### Exit 46 Interchange – RCP&E RR EAST: Steakhouse Access Rd, Spring Valley Rd, E Hills View Dr, Elk Creek Rd, Temporary Elk Creek Road

- Use Standard Plate No. 634.03 for traffic control when working along the shoulder of Present Elk Creek Road and Spring Valley Road.
- Use Standard Plate No. 634.28 for the construction and maintenance of the Temporary Elk Creek Road Diversion.
- **Elk Creek Road**
  - Complete grading of Temporary Elk Creek Road using the provided alignment and profile before other work begins to allow traffic to be diverted onto.
    - Temporary Road must always provide 1 lane of traffic in each direction, being separated using channeling devices.
  - Remove Present Elk Creek Road pavement from Proposed Steakhouse Access Road to West Hills View Drive.
  - Begin grading and AC pavement for new Elk Creek Road from RCP&E Railroad to East Valley View Drive (Sta. 508+65 to 527+57).
  - Complete grading and AC Pavement for Lot 9 Access.
  - Work that does not require the use of the temporary alignment can begin at any time (Sta. 508+65 to 513+00 +/-).
  - See Phase A Elk Creek Road Sequencing for subphase completion.
- **Spring Valley Road**
  - Complete Grading of Spring Valley Road from Sta. 706+25 to Present Elk Creek Road.
    - Pilot cars and flagger will be utilized during active construction hours. During non-active construction hours, the roadway will be open to 1-12 foot lane in each direction. Placement of finish gravel is to be completed once grading is completed.
  - **Note - At no point during the project will scrapers or other construction equipment be allowed to haul across the portion of Spring Valley Road that is not being reconstructed during the project.**



**SEQUENCE OF OPERATIONS CONT.**

- **Steakhouse Access Road**
  - Complete Grading and Asphalt pavement construction of Steakhouse Access Road from Sta. 40+00 to proposed Elk Creek Road.
  - **Note – Full access must be maintained at all times.**
- **West and East Hills View Dr**
  - Complete Grading and Asphalt pavement construction of West Hills View Drive from Sta. 10+70 to East Hills View Drive.
    - Construction to begin once Temporary Elk Creek Road and Spring Valley Road Detours are operational.
  - Complete Grading and Asphalt Pavement construction of East Hills View Drive from Sta. 21+00 to proposed Elk Creek Road.
    - Construction to begin once Temporary Elk Creek Road and Spring Valley Road detours are operational.
  - One approach must remain open at all times.
- **West and East Valley View Dr**
  - Complete Grading and Asphalt pavement construction of West Valley View Drive from Sta. 31+30 to Proposed Elk Creek Road.
    - Construction to begin once Temporary Elk Creek Road and Spring Valley Road Detours are operational.
  - Complete Grading and Asphalt Pavement construction of East Valley View Drive from Sta. 0+27 to proposed Elk Creek Road.
    - Construction to begin once Temporary Elk Creek Road and Spring Valley Road detours are operational.
  - One approach must remain open at all times.
- **Wall C** – Complete the construction of wall C.

**Exit 46 Interchange – RCP&E RR WEST: Elk Creek Rd, Ramp A, Ramp B, Ramp C, Ramp D, Sturgis Rd**

- Use Standard Plate No. 634.03 for traffic control when working along the shoulder of I-90 and Sturgis Road.
- Use Standard Plate No. 634.53 for traffic to shift Sturgis Road into 2 lanes with 11 feet per lane to the far edges of the roadway.
- Use Standard Plate No. 634.70 for traffic control at present Ramp B and Ramp C.
- Install temporary guardrail (see Section B for guardrail layouts) for two-way traffic in subsequent phases.
- **Sturgis Road**
  - Grade the north side of Sturgis Road (Sta. 665+70 to 680+73) to allow for 2 lanes of continuous traffic.
    - Install storm drain along North side of road.
  - Complete grading and asphalt pavement reconstruction on the south side of Sturgis Road (Sta. 665+70 to 680+73).
    - 1 12-ft lane of traffic in each direction will be provided on the previously graded north side.
    - Complete storm drain installation concurrently with reconstruction of the south side of the road.
  - Complete grading and asphalt pavement reconstruction on the north side of Sturgis Road (Sta. 665+70 to 680+73).
    - 1 12-ft lane of traffic in each direction will be provided on the previously completed south side.
  - See phase A Sturgis Road Sequencing for subphase completion.
- **Exit 46 Ramps A, B, C, and D**
  - Remove Out-of-Balance Excavation material from Ramps C and D, and the EB I90 ditch (Sta 1105+00 to 1120+00).
  - Begin grading and AC pavement of Ramp A from Sta. 117+00 to 119+44, Ramp B from Sta. 200+00 to 215+72, Ramp C from Sta. 300+00 to 317+96, and Ramp D from Sta. 410+00 to 417+96.
    - Grading of Ramps A and B will be completed with the out-of-balance excavation material from Ramps C and D, and the EB I90 ditch (Sta 1105+00 to 1120+00).

- Complete grading and temporary pavement for Ramp D temporary ramp connections in preparation of phasing traffic in later phases.
- **Temporary Interstate Crossovers** – Complete grading and temporary gore pavement for I-90 crossovers located at stations 1070+00 and 1110+00 in preparation of phasing traffic in later phases.
- **Wall A** – Begin construction of Wall A to Sta. 117+00 of proposed ramp A.
- **Wall B** – Begin construction of Wall B to present Elk Creek Road.
- **Elk Creek Road** – Begin grading and concrete pavement construction of Elk Creek Road from Sta. 500+00 to 504+55.
- **Foothills Community Baptist Church (Dakota Baptist Convention)**
  - Complete grading and Asphalt Pavement reconstruction of parking area and Sturgis Road Access.
  - **Note – Must maintain full access to the church during normal operation hours at either 678+39 entrance or 681+50 entrance.**
  - **Note – Must maintain full access for residents at 681+50. The width may be reduced to ½ width during non-church operating hours.**
- **Top 50 Promotions** – Complete Grading and Asphalt pavement reconstruction of parking area.

**Structure Work**

- **Str. No 47-091-555** (CBC 1) – Begin box culvert replacement by installing outlet sections West of WB I-90.
  - Use standard plate 634.61 to protect construction area.
- **Str. No 47-092-556** (CBC 2) – Begin box culvert replacement by installing outlet sections West of WB I-90.
  - Use standard plate 634.61 to protect construction area.
- **Str. No 47-093-557** (CBC 3) – Begin box culvert replacement by installing outlet sections West of WB I-90.
  - Use standard plate 634.61 to protect construction area.
- **Str. No 47-094-559** (CBC 4) – Begin box culvert replacement by installing outlet sections West of WB I-90.
  - Use standard plate 634.61 to protect construction area.
- **Str. No. 47-098-564** (Elk Creek Road over I-90) – Begin bridge sub-structure work.
  - Placement of bridge girders will only occur between 9:00PM and 5:00AM.
  - A minimum of seven days’ notice must be provided for public notification.
  - Use standard plate 634.61 to protect construction area.
  - Traffic will be routed off the interstate onto interchange ramps per included ramp entrance and exit detail sheets and standard plate 634.70.
- **Str. No. 47-099-564** (Elk Creek Rd over RCP&E RR) – Begin construction of bridge structure work.


**PHASE B** – Concurrent work items to include:

- **Elk Creek Road** – Complete Grading and Asphalt pavement construction of Elk Creek Road East of the RCP&E Railroad (Sta. 508+65 to 527+57) and west of I-90 from Sta. 500+00 to 504+55.
  - Use Standard Plate 634.25 for traffic control when working on Elk Creek Road when tying into Present Elk Creek Road near East Valley View Drive.
- **Wall A** – Complete the construction of wall A to Station 117+00 of proposed Ramp A.
- **Wall B** – Complete the construction of wall B to present Elk Creek Road.
- **Exit 46 Ramp A** – Complete Grading and Concrete pavement construction of Ramp A from Sta. 117+00 to 119+44.

- **Exit 46 Ramp B** – Complete grading and concrete pavement construction of Ramp B from station 200+00 to 221+28.
  - Use Standard Plate No. 634.61 for traffic control on I-90 and present Ramp B.
  - Use Standard Plate No. 634.69 for traffic control at Exit 46 Ramps B and C.
- **Exit 46 Ramp C** – Complete grading and concrete pavement construction of Ramp C from station 300+00 to 317+96.
  - Use Standard Plate No. 634.61 for traffic control on I-90 and present Ramp B.
  - Use Standard Plate No. 634.69 for traffic control at Exit 46 Ramps B and C.
- **Exit 46 Ramp D** – Complete Grading and Concrete pavement construction of Ramp D from Sta. 410+00 to 417+96.
- **Str. No. 47-098-564** (Elk Creek Rd over I-90) – Complete construction of bridge structure work.
  - Placement of bridge girders will only occur between 9:00PM and 5:00AM.
  - A minimum of seven days’ notice must be provided for public involvement.
  - Use standard plate 634.61 to protect construction area.
  - Traffic will be routed off the interstate per included ramp entrance and exit detail sheets.
- **Str. No. 47-099-564** (Elk Creek Rd over RCP&E RR) – Complete construction of bridge structure work.
- **Str. No 47-091-555** (CBC 1) – Continue box culvert replacement by installing outlet sections West of WB I-90.
  - Use standard plate 634.61 to protect construction area.
- **Str. No 47-092-556** (CBC 2) – Continue box culvert replacement by installing outlet sections West of WB I-90.
  - Use standard plate 634.61 to protect construction area.
- **Str. No 47-093-557** (CBC 3) – Continue box culvert replacement by installing outlet sections West of WB I-90.
  - Use standard plate 634.61 to protect construction area.
- **Str. No 47-094-559** (CBC 4) – Continue box culvert replacement by installing outlet sections West of WB I-90.
  - Use standard plate 634.61 to protect construction area.

**PHASE B2** – This phase is intended to be a subphase of B, completed with concurrent work items to include:

- **Temporary Elk Creek Road** – Remove temporary Elk Creek Road.

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**SEQUENCE OF OPERATIONS CONT.**

- **Present Elk Creek Road**
  - Remove present Elk Creek Road from E Hills View Drive to E Valley View Drive.
  - Remove present Elk Creek Road from Steakhouse Access Road to Sturgis Road, including the at-grade railroad crossing.
- **Present Ramps A, B, and C** – Remove present ramps A, B and C.
  - Closure and removal of present Ramps A, B, and C to begin once Str. No. 47-098-563 demolition begins.
- **Exit 46 Ramp D Temporary Crossover** – Complete grading and temporary gore pavement for I-90 crossover located at station 1080+00 in preparation of phasing traffic in later phases.
  - Construction of this crossover can begin once present ramps B and C have been removed.
- **Str. No. 47-098-563** (Present Elk Creek Rd structure) – Removal of present structure over I-90.
  - Bridge Demolition will only occur between 9:00PM and 5:00AM.
  - Existing guardrail must stay intact until the demolition of the structure is complete.
  - Protect demolition areas with temporary concrete barriers.
- **Str. No 47-091-555** (CBC 1) – Complete outlet sections West of WB I-90.
  - Use standard plate 634.61 to protect construction area.
- **Str. No 47-092-556** (CBC 2) – Complete outlet sections West of WB I-90.
  - Use standard plate 634.61 to protect construction area.
- **Str. No 47-093-557** (CBC 3) – Complete outlet sections West of WB I-90.
  - Use standard plate 634.61 to protect construction area.
- **Str. No 47-094-559** (CBC 4) – Complete outlet sections West of WB I-90.
  - Use standard plate 634.61 to protect construction area.

**PHASE C** – Concurrent work items to include:


- Establish two-way, one-lane traffic in the EB lanes of I-90 between MRM 43.289 and station 1160+00 crossovers using standard plate 634.66 and as detailed in these plans.
- **WB I-90** – Complete Grading and Concrete pavement reconstruction of WB I-90.
  - Standard Plate No. 634.69 and provided ramp entrance and exit special detail sheets will be used on I-90 for Exit 46 Ramps A and B.
  - Use standard plate 634.01 to protect median construction areas.
- **Exit 46 Ramp A** – Complete Grading and Concrete pavement construction of Ramp A from Sta. 100+00 to 117+00.
  - See Detour Route I-90 WB - Phase C Exit 46 Ramp A Completion for signing details.
  - The Contractor will notify the City of Piedmont at least 2 weeks prior to implementing this detour.
  - Vehicles using the Exit 48 Ramp A will use present WB I-90 under a partial closure from Exit 48 to the project limits.
  - This work is to start directly after the removals of present ramps A and B and the present interchange.
- **Wall A** – Complete remainder of wall A.
  - This work is to be done concurrently with the completion of the remainder of proposed ramp A.
- **Wall B** – Complete remainder of wall B.
  - This work is to be done concurrently with the completion of the remainder of proposed ramp A.
- **Str. No 47-091-555** (CBC 1) – Complete box culvert replacement under WB I-90.

- Use standard plate 634.01, in conjunction with provided traffic control plans, to protect construction area.
- **Str. No 47-092-556** (CBC 2) – Complete box culvert replacement under WB I-90.
  - Use standard plate 634.01, in conjunction with provided traffic control plans, to protect construction area.
- **Str. No 47-093-557** (CBC 3) – Complete box culvert replacement under WB I-90.
  - Use standard plate 634.01, in conjunction with provided traffic control plans, to protect construction area.
- **Str. No 47-094-559** (CBC 4) – Complete box culvert replacement under WB I-90.
  - Use standard plate 634.01, in conjunction with provided traffic control plans, to protect construction area.
- **Str. No 47-104-570** (CBC 5) – Complete box culvert replacement under WB I-90.
  - Use standard plate 634.01, in conjunction with provided traffic control plans, to protect construction area.
- **Str. No 47-106-572** (CBC 6) – Complete box culvert replacement under WB I-90.
  - Use standard plate 634.01, in conjunction with provided traffic control plans, to protect construction area.

**PHASE D** – Concurrent work items to include:

- Establish two-way, one-lane traffic in the WB lanes of I-90 between MRM 43.289 and station 1160+00 crossovers using standard plate 634.66 and as detailed in the plans.
- **EB I-90**– Complete Grading and Concrete pavement reconstruction of EB I-90.
  - Traffic will be routed off the interstate onto interchange ramps per provided ramp entrance and exit detail sheets and standard plate 634.70.
  - Use standard plate 634.01 to protect median construction areas.
  - Remove temporary ramp and median crossovers upon completion.
- **EB I-90 Barrier** – Construction of permanent barrier wall that was removed for Box Culvert replacement and luminaire installation (See Section B for station ranges).
- **Sturgis Road Barrier**
  - Flagger/Pilot car will be utilized during active construction hours and open to one-lane traffic controlled by stop signs during non-working hours utilizing standard plate 634.25.
    - Direct line of site between stop signs must be maintained at all times until construction is completed.
  - Standard plate 634.25 will be utilized to protect the construction zone.
  - Speed limit throughout the construction zone will be signed at 20 mph.
- **Exit 46 Ramp D** – Complete grading and construction of proposed ramp D from sta. 400 to 410+00.
  - Complete grading and pavement of temporary ramp connections utilizing the previously built crossovers to maintain traffic until completion of proposed ramp D and adjacent EB I-90 concrete pavement construction.
  - Refer to sheets C57 – C59 for phasing of Ramp D and adjacent I-90.
  - Standard Plate No. 634.64 will be used for EB I-90 from median crossover to Exit 48 Ramp D.
  - Standard Plate No. 634.69 and provided ramp entrance and exit special detail sheets will be used on I-90 for Exit 46 Ramps C and D and for Exit 48 Ramp C.
- **Str. No 47-091-555** (CBC 1) – Complete box culvert replacement under EB I-90 and present Sturgis Road.

- Use standard plate 634.01 to protect median construction areas.
- Construct temporary pavement for detour along EB I-90 to allow for box culvert replacement under Sturgis Road while maintaining two-way, one-lane traffic.
  - Standard plate No. 634.28 will be used to protect the construction area.
  - This detour is to be signed for 20 mph
- **Str. No 47-092-556** (CBC 2) – Complete box culvert replacement under EB I-90.
  - Use standard plate 634.01 to protect median construction areas.
  - Construct temporary pavement for detour along EB I-90 to allow for box culvert replacement under Sturgis Road while maintaining two-way, one-lane traffic.
    - Standard plate No. 634.28 will be used to protect the construction area.
    - This detour is to be signed for 20 mph.
- **Str. No 47-093-557** (CBC 3) – Complete box culvert replacement under EB I-90.
  - Use standard plate 634.01 to protect median construction areas.
  - Construct temporary pavement for detour along EB I-90 to allow for box culvert replacement under Sturgis Road while maintaining two-way, one-lane traffic.
    - Standard plate No. 634.28 will be used to protect the construction area.
    - This detour is to be signed for 20 mph.
- **Str. No 47-094-559** (CBC 4) – Complete box culvert replacement under EB I-90.
  - Use standard plate 634.01 to protect median construction areas.
  - Construct temporary pavement for detour along EB I-90 to allow for box culvert replacement under Sturgis Road while maintaining one-way traffic controlled by stop signs.
    - Standard plate No. 634.25 will be used to protect the construction area and establish traffic control.
    - Direct line of site between stop signs must be maintained at all times until construction is completed.
    - This detour is to be signed for 15 mph.
- **Str. No 47-104-570** (CBC 5) – Complete box culvert replacement under EB I-90.
  - Use standard plate 634.01, in conjunction with provided traffic control plans, to protect construction area.
- **Str. No 47-106-572** (CBC 6) – Complete box culvert replacement under EB I-90.
  - Use standard plate 634.01, in conjunction with provided traffic control plans, to protect construction area.

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## LANE CLOSURES

Interstate lane closures shorter than 5 miles will be used if 5 miles is greater than the length of work that can be accomplished in one day's production. More than one lane closure may be permitted; however, there will be a minimum of a three-mile section between lane closures, excluding the tapers.

Interstate lane closures will be removed when work will not be occurring for a period of 3 or more calendar days. Activities that do not involve workers being present, such as curing time for concrete, constitute work. Lane closures will not be set up on a Friday if no work will be occurring on Saturday or Sunday. In these cases, the lane closure will be installed on Monday.

## OVERWIDTH RESTRICTION AND DETOUR SIGNING

The Contractor will furnish and install the overwidth restriction and detour signs as shown in these plans. Prior to installing the signs, the Contractor will mark the sign locations and review them with the Engineer. Overwidth restriction and detour signs will be installed on fixed location, ground mounted, breakaway supports. It will be the responsibility of the Contractor to maintain and reinstall these signs during the project as required by the construction progress. Upon completion of the project, the Contractor will remove the overwidth restriction and detour signs.

All costs for furnishing the signs, posts, and mounting hardware, and for installing, maintaining, covering, and removing the overwidth restriction and detour signs will be incidental to the contract unit price per square foot for "Detour and Restriction Signing".

## FLAGGING

Operations will be conducted so that the traveling public will not have to wait longer than 15 minutes at the flagger station.

Additional flagger warning signs and flagger hours have been included in the Estimate of Quantities for use on intersecting roads. These flaggers will be used as directed by the Engineer and will be used primarily during daytime hours. Also included in the Estimate of Quantities are WAIT FOLLOW PILOT CAR signs for use on low volume intersecting roads as determined by the Engineer. WAIT FOLLOW PILOT CAR signs will not block the view of the stop sign.



It is required that the flaggers and pilot car operators be able to communicate with one another. If an emergency vehicle needs to pass through the project, the Contractor will be required to expedite traffic movement. All costs associated with this will be incidental to the contract unit price per hour for "Flagging".

## WORK ZONE SPEED REDUCTION

The State is required to obtain a speed reduction resolution prior to the installation of any SPEED LIMIT (R2-1) signs shown on standard plate 634.63. To provide adequate time for the resolution to be enacted, the Contractor will inform the Engineer a minimum of 3 weeks prior to the scheduled installation of any work zone speed reduction signs on the project. The information provided by the Contractor will include the anticipated date of sign installation, the newly reduced speed limit, the location of the work zone, and the anticipated completion date of work requiring the speed reduction.

## TEMPORARY PAVEMENT MARKING

Temporary flexible vertical markers (tabs) will be required on the top lift of asphalt concrete surfacing.

Temporary Pavement Marking paint will not be allowed on the final lift of asphalt surfacing. Temporary Pavement Marking paint will not be allowed on the chip seal, fog seal, or flush seal. Temporary flexible vertical markers (tabs) must be used on the final lift of asphalt surfacing. The Contractor may use tabs with covers, uncovering them for the chip seal, fog seal, or flush seal. As an alternative, the Contractor may install new tabs for the fog seal or flush seal.

Covers on the tabs will be sufficiently secured to prevent traffic from dislodging the cover and when removed, the covers will be properly disposed of. The Contractor will remove and properly dispose of the tabs after permanent pavement marking is applied. Method of removal will be nondestructive to the road surface and will be accomplished within one week of completion of the permanent pavement marking.

Full reflectivity of all temporary flexible vertical markers (tabs) is required at all times. The Contractor will be required to replace any missing or non-reflective tabs after each installation as detailed below at no additional cost to the State.

In the absence of a signed lane closure or pilot car operation, FLAGGER (W20-7) symbol signs and flaggers, or a shadow vehicle with rotating yellow lights or strobe lights will be positioned on the shoulder in advance of workers for both directions of traffic during the installation and removal of the temporary flexible vertical markers (tabs). The traffic control device used will be moved intermittently to provide proper warning of the work operation. A ROAD WORK AHEAD (W20-1) sign, a WORKER (W21-1) symbol sign or a BE PREPARED TO STOP (W3-4) sign will be mounted on the rear of the shadow vehicle. The method of traffic control used by the Contractor for this work must be approved by the Engineer.

Prior to nightfall, RPM's will be required to mark centerline on segments of roadway where existing centerline markings have been removed and new markings have not been installed.

## TEMPORARY PAVEMENT MARKING TAPE, TYPE I

Temporary Pavement Marking for stop lines will consist of 4" Temporary Pavement Marking Tape, Type I. Placement of each 24" white stop line will be accomplished by placing six pieces of 4" x 12' tape adjacent to one another. Each workspace requires two stop lines which is an equivalent of approximately 144' of 4" tape (4 workspaces at 144' = 576'). Temporary Pavement Marking on centerline will consist of raised pavement markers and will be used as depicted on standard plate 634.25 when the stop condition must remain in place during nighttime hours, 9:00 pm to 6:00 am (Estimate 4 workspaces remaining during nighttime hours x 2,200' per workspace = 8,800'). Temporary tape will be removed upon completion of the project.

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## TEMPORARY RAISED PAVEMENT MARKERS

Temporary raised pavement markers will be used for marking edge lines, lane lines, and centerlines. Temporary raised pavement markers will be used on all new permanent surfacing sections of roadway and on existing surfacing where temporary marking locations are different than existing marking locations, unless noted or as directed by the Engineer.

Temporary raised pavement markers will be attached to the roadway surface with a flexible non-permanent bituminous adhesive capable of being removed from the roadway surface or with an adhesive approved by the Engineer.

All costs to furnish, install, replace if necessary, and remove the markers will be incidental to the contract unit price per foot for "Temporary Raised Pavement Markers".

## CONTRACTOR FURNISHED PORTABLE CHANGEABLE MESSAGE SIGN

One week prior to starting work affecting the traveling public, portable changeable message signs (PCMS) will be installed at locations detailed in the plans to notify drivers of the upcoming construction. The Contractor will program the portable changeable message signs with the following message:

ROAD WORK  
I-90 AND  
EXIT 46

ROAD WORK  
BEGINS  
(DATE)

When work begins that will affect traffic patterns, the Contractor will re-program the PCMS with the messages as detailed in the plans.



## 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 South Dakota Highway Patrol, the Meade County Sheriff 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. Flaggers will be paid for at the contract unit price per hour for "Flagging".

## PRESS RELEASE ANNOUNCEMENTS

The SDDOT 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 SDDOT 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.

## TUBULAR MARKERS

The color of the tubular markers on centerline will be predominately orange. The color of the tubular markers installed on the shoulders will be predominately white. The white tubular markers will be installed 2.0 feet from the existing edge line at intervals of approximately 80 feet.

All tubular markers will be a minimum of 28 inches in height. The base of the tubular marker should be attached to the roadway surface with a flexible non-permanent bituminous adhesive capable of being removed from the roadway surface after use. The pin used to connect the marker to the base will be of a type that will not puncture a vehicle tire if it should become dislodged from the base.

Four (4) tubular markers, spaced at 50', will be placed in front of all crash attenuators.

At entrance (on) and exit (off) ramp locations, additional Tubular Markers will be installed at 20' spacing from the gore point to the end of the ramp taper or 600' past the opposite entrance ramp if ramp acceleration/deceleration lanes exist.

At the end of each crossover, where Two-Way traffic begins, additional Traffic Control Markers will be installed at 20' spacing for 600'.

Shoulder marking will be installed on the shoulders of I-90 from the beginning of the lane closure taper throughout the length of the two-way traffic, extending to the end of the lane reduction. This marking will consist of tubular markers at a spacing of 500'. The tubular markers will be installed 2' laterally from the edge of the driving lane and will match the color of the adjacent edge line.

All costs for furnishing, installing, maintaining, and removing the tubular markers will be incidental to the contract unit price per each for "Tubular Marker".

## 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. Lighting must be set up in any way where it is pointed at or will impede/affect oncoming traffic.

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

## TRUCK/TRAILER MOUNTED ATTENUATOR

The Contractor will furnish truck or trailer mounted attenuator(s) to be used for the duration of the project. Truck or trailer mounted attenuators (TMAs) will meet the crashworthy requirements of NCHRP 350 or MASH Test Level 3. TMAs will be used and maintained in accordance with the manufacturers' recommendations.

The TMAs should be utilized on the project where workers and/or equipment are working next to the centerline of the roadway with live traffic in the adjacent lane, or as directed by the Engineer. The TMAs will be removed from the roadway at the end of each working day. The TMAs will remain the property of the Contractor at the end of the project.

The TMAs will be paid for at the contract unit price per each for Truck/Trailer Mounted Attenuator. Payment will be full compensation for furnishing, maintaining, relocating and removing as many times as required by the Engineer and the Contractor's operations.

In the event a TMA is hit while in service, the manufacturer will assess the TMA and make a recommendation as to whether it can be repaired or needs to be replaced. The State will reimburse the Contractor for repairs as documented by invoices or pay for another TMA to be deployed to the project as needed.



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## HIGHWAY WORKERS GIVE 'EM A BRAKE SIGNS

One fixed location ground mounted HIGHWAY WORKERS GIVE 'EM A BRAKE sign will be installed 2000 feet in advance of the ROAD WORK NEXT 4 MILES signs for eastbound and westbound directions of travel. The signs will be mounted to the right of the roadway, a minimum of 16 feet from the edge of the shoulder to the inside edge of the sign.

The Contractor will furnish a sign design detail for the HIGHWAY WORKERS GIVE 'EM A BRAKE sign for Engineer review and approval. HIGHWAY WORKERS GIVE 'EM A BRAKE signs will be included in the contract Square Foot price for "Traffic Control Signs".

## TRAFFIC CONTROL MOVABLE CONCRETE BARRIERS

Concrete barriers will be provided by the State and are available for pickup from the SDDOT Sturgis Maintenance Yard located at 1100 Otter Rd in Sturgis. The barriers will be hauled back to the SDDOT Sturgis Maintenance Yard when they are no longer needed on the project.

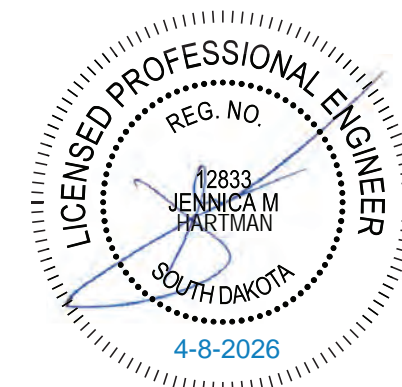
Barriers to be adjusted or moved will be disconnected from adjacent barriers to minimize damage to connecting pins. Pins damaged by the Contractor will be replaced at no cost to the State.

Concrete barrier sections will be placed as depicted in the plans to comply with clear zone requirements and as required by the Engineer. The barriers will be pinned and bolted together as directed by the Engineer.

All costs associated with picking the barriers up from the SDDOT Maintenance Yard, transporting, setting, connecting, and hauling them back to the SDDOT Maintenance Yard will be incidental to the contract unit price per each for Traffic Control Movable Concrete Barrier.

After the initial placement, the concrete barriers may need to be adjusted. Adjustment of the barriers, where they do not need to be loaded on a truck for transport, will be incidental to the contract unit price per each for Traffic Control

Movable Concrete Barrier. All costs associated with removing, loading, unloading, and resetting of the barriers at a new site, will be incidental to the contract unit price per each for Remove and Reset Traffic Control Movable concrete Barrier. No additional payment will be made for barriers that are not immediately reset at a new location on the project and stored on-site until they are either reset on the project or returned to the SDDOT as indicated in these plans.



**TEMPORARY CONCRETE BARRIER END PROTECTION**

Crash attenuators meeting the requirements of NCHRP 350 or MASH TL-3 will be furnished and installed by the Contractor. Attachment of the attenuators to the concrete barriers will be by approved methods.

All costs associated with furnishing, transporting, initial setup, connecting, maintaining, and removing the crash attenuators will be incidental to the contract unit price per each for Temporary Concrete Barrier End Protection.

All costs associated with moving and resetting crash attenuators to accommodate traffic flows after initial set-up will be paid for at the contract unit price per each for Remove & Reset Temporary Concrete Barrier End Protection. All costs associated with removing from initial placement and resetting at a new location will be incidental to the contract unit price per each. No additional payment will be made for crash attenuators that are not immediately reset at a new location on the project and stored on-site until they are either reset or removed from the project as determined by the Engineer. No additional payment will be made for minor adjustments.

The Contractor will have replacement hardware available so that in the event the crash attenuator is hit and made unusable, the crash attenuator can be made functional within 24 hours. The cost of replacement will be incidental to the contract unit price per each for Temporary Concrete Barrier Module Set or Repair Kit. No payment will be made for the Temporary Concrete Barrier Module Set or Repair Kit if no repairs are necessary. Upon completion of the project, crash attenuators will remain the property of the Contractor.

**BARRIER MOUNTED LINEAR DELINEATION SYSTEM PANELS**

A linear delineation system (LDS) panel will be attached to each barrier section. The color will be the same as the nearest pavement marking, white along outside edgelines or yellow for the left side on one way traffic sections. The LDS will be 34 inches long and 6 inches in height and be constructed of aluminum formed into a shape to provide retroreflective properties across a wide range of angles. It will be sheeted with sheeting meeting the requirements of ASTM D4956 Type XI. The panels will be evenly spaced, with the top of the panel 4 inches below the top of the barrier. Installation will be as per the manufacturer's recommendations. This will allow for easy removal for replacement of damaged panels or to replace with an alternate color. The Contractor will furnish and install one panel along each side of the barrier if any panels are missing from the barriers. Replacement of damaged linear delineation system panels will be furnished and replaced by the Contractor. All costs associated with furnishing, installing, and replacing, if needed, will be incidental to the contract unit price per each for Linear Delineation System Panel, Barrier Mounted.

All LDS panels will remain attached to the barrier sections and will become the property of the State of South Dakota upon completion of the project.


The Contractor will verify the number of LDS panels that will need to be installed or replaced on the Traffic Control Movable Concrete Barriers. The contract amount of LDS panels is an estimate and the full contract amount may not be needed.

Maintaining the linear delineation system, including moving LDS panels from one side of the barrier to the other side of the barrier to match the applicable color of the nearest pavement marking will be incidental to the contract lump sum price for Traffic Control, Miscellaneous.

**LATE (ZIPPER) MERGE**

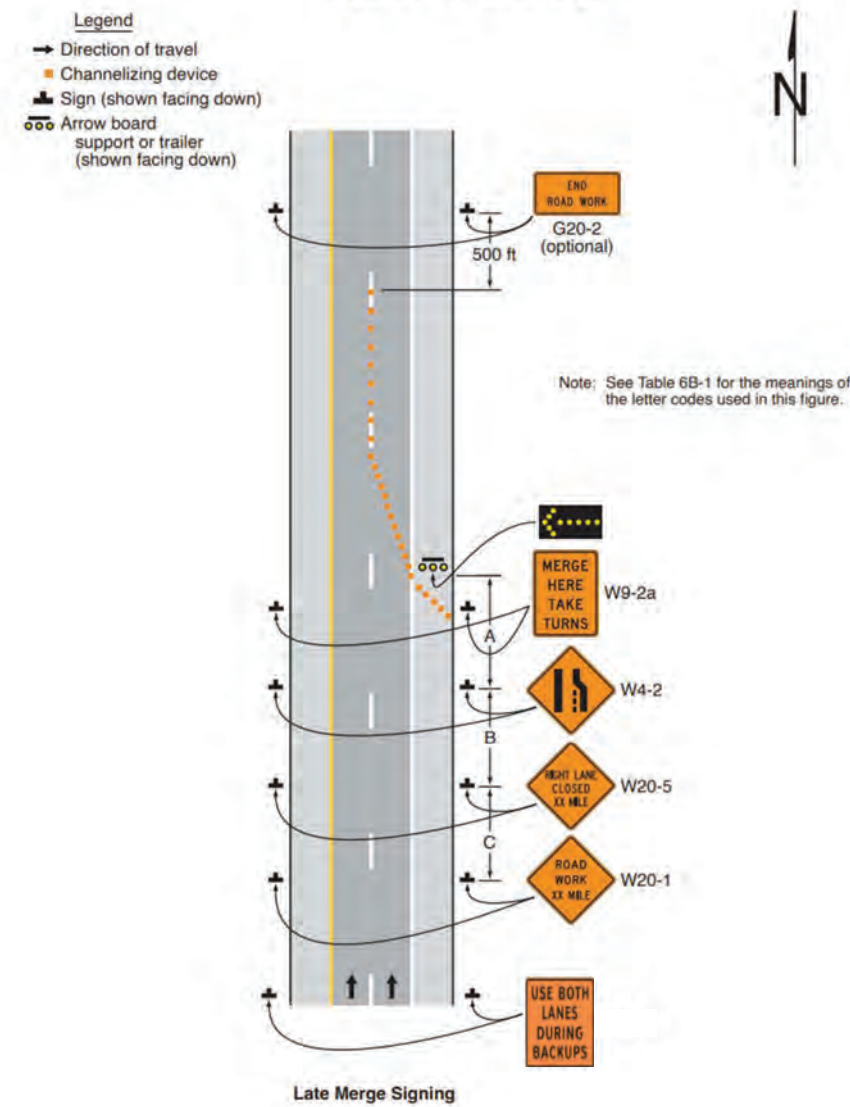
The signing layout included in this section is to be used in conjunction with standard plates 634.64, 634.65, and 634.66. All taper lengths, spacing of signs, buffer space, etc. will be followed according to the respective standard plate.

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Figure 6N-1. Late Merge



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**ITEMIZED LIST FOR MAINLINE TRAFFIC CONTROL SIGNING**

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		EXPRESSWAY / INTERSTATE							
SIGN CODE	SIGN DESCRIPTION	MAX SIGNS (PHASE A)	MAX SIGNS (PHASE B)	MAX SIGNS (PHASE C)	MAX SIGNS (PHASE D)	SIGN SIZE		SQFT PER SIGN	PAY QUANTITY
R1-2	YIELD	0	0	2	2	60"	x 60"	25	50
R2-1	SPEED LIMIT (45)	0	0	2	2	48"	x 60"	20	40
R2-1	SPEED LIMIT (65)	6	6	6	6	48"	x 60"	20	120
R2-1	SPEED LIMIT (75)	2	2	2	2	48"	x 60"	20	40
R2-6aP	FINES DOUBLE (plaque)	10	10	10	10	36"	x 24"	6	60
R3-2	NO LEFT TURNS	3	3	0	0	24"	x 30"	5	15
R4-1	DO NOT PASS	0	0	2	2	48"	x 60"	20	40
W4-2	LANE ENDS SIGN	4	4	4	4	48"	X 48"	16	64
R4-7	KEEP RIGHT (symbol)	0	0	2	2	36"	x 48"	12	24
R5-1	DO NOT ENTER	0	0	2	2	36"	x 36"	9	18
W1-4	REVERSE CURVE (L or R)	0	0	2	2	48"	x 48"	16	32
W3-2	YIELD AHEAD	0	0	2	2	48"	x 48"	16	32
W3-5	SPEED REDUCTION AHEAD (65 MPH)	4	4	4	4	48"	x 48"	16	64
W4-1	MERGE (symbol)	0	0	2	2	48"	x 48"	16	32
W4-3	ADDED LANE	8	8	8	8	48"	x 48"	16	128
W5-4	RAMP NARROWS	6	6	6	6	48"	x 48"	16	96
W6-3	TWO WAY TRAFFIC (symbol)	0	0	8	6	48"	x 48"	16	128
W7-3aP	NEXT _ MILES (plaque)	0	0	2	2	36"	x 30"	7.5	15
W8-6	TRUCK CROSSING	2	2	2	2	48"	x 48"	16	32
W8-11	UNEVEN LANES	10	10	10	10	48"	x 48"	16	160
W8-15	GROOVED PAVEMENT	0	0	2	2	48"	x 48"	16	32
W9-2a	MERGE HERE TAKE TURNS	0	0	2	2	48"	x 48"	16	32
W13-2	ADVISORY EXIT SPEED	0	0	2	2	36"	x 48"	12	24
W13-3	ADVISORY RAMP SPEED	0	0	2	2	36"	x 48"	12	24
W20-1	ROAD WORK AHEAD	8	8	8	8	48"	x 48"	16	128
W20-5	RIGHT LANE CLOSED AHEAD	0	0	4	4	48"	x 48"	16	64
W21-5a	LEFT or RIGHT SHOULDER CLOSED	4	4	6	2	48"	x 48"	16	96
W21-5b	LEFT or RIGHT SHOULDER CLOSED AHEAD	4	4	6	2	48"	x 48"	16	96
E5-1bP	EXIT _ (1 or 2 digits)	0	0	2	2	42"	x 30"	8.75	17.5
SPECIAL	EXIT _ with 45° ARROW (1 or 2 digits)	0	0	2	2	60"	x 48"	20	40
SPECIAL	EXIT _ with 45° ARROW / Destination (1 or 2 digits)	0	0	2	2	60"	x 48"	20	40
SPECIAL	EXIT _ with 45° Destination / 1000 FT (1 or 2 digits)	0	0	2	2	60"	x 48"	20	40
SPECIAL	EXIT 44 SIGN FOR BEFORE CROSSOVER?	0	0	0	2	60"	x 48"	20	40
G20-1	ROAD WORK NEXT _ MILES	4	4	4	4	48"	x 24"	8	32
G20-2	END ROAD WORK	2	2	2	2	48"	x 24"	8	16
SPECIAL	USE BOTH LANES DURING BACKUP	0	0	4	4	48"	x 48"	16	64
SPECIAL	HIGHWAY WORKERS GIVE 'EM A BREAK	2	2	2	2	48"	x 48"	16	32
<b>EXPRESSWAY/INTERSTATE TRAFFIC CONTROL SIGN SQFT:</b>									<b>2007.5</b>

Plotted From - bayley\_colamer

File - ...Section\_C-Traffic\_Control\_Notes.Docx



**ITEMIZED LIST FOR LOCAL ROAD TRAFFIC CONTROL SIGNING**

**FOR BIDDING PURPOSES ONLY**



STATE OF SOUTH DAKOTA

PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	C11	C85

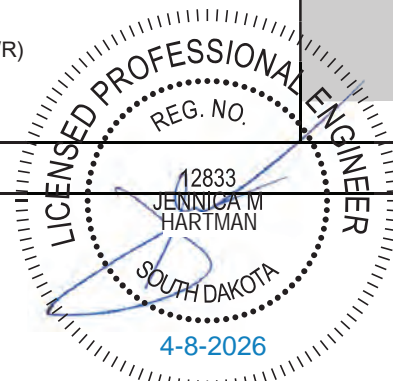
Plotting Date: 4/8/2026 Rev: 9/30/2025 BRC Rev: 3/06/2026 BRC Rev: 3/25/2026 BRC Rev: 4/8/2026 BRC

		CONVENTIONAL ROAD							
SIGN CODE	SIGN DESCRIPTION	PHASE A OR B (ELK CREEK RD)	PHASE A OR B (STURGIS RD)	PHASE C OR D (DIVERSIONS)	SIGN SIZE		SQFT PER SIGN	PAY QUANTITY	
R1-1	STOP	0	0	6	30"	x	30"	6.25	37.5
R3-2	NO LEFT TURN	3	0	0	24"	x	30"	5	15
R11-2	ROAD CLOSED	3	1	0	48"	x	30"	10	30
R11-3a	ROAD CLOSED LOCAL TRAFFIC ONLY	1	0	0	60"	x	30"	12.5	12.5
R11-4	ROAD CLOSED TO THRU TRAFFIC	0	0	3	60"	x	30"	12.5	37.5
W1-3L	REVERSE TURN (L)	0	0	8	48"	x	48"	16	128
W1-3R	REVERSE TURN (R)	0	0	8	48"	x	48"	16	128
W1-6	LARGE ARROW (one direction)	0	0	20	48"	x	24"	8	160
W3-1a	STOP AHEAD	0	0	8	48"	x	48"	16	128
W8-12	NO CENTER LINE	2	0	0	36"	x	36"	9	18
W9-3	CENTER LANE CLOSED AHEAD	2	0	0	48"	x	48"	16	32
W13-1P	ADVISORY SPEED (plaque) 15 mph	0	0	2	30"	x	30"	6.25	12.5
W13-1P	ADVISORY SPEED (plaque) 20 mph	0	0	8	30"	x	30"	6.25	50
W20-1	ROAD WORK AHEAD	3	2	9	48"	x	48"	16	144
W20-2	DETOUR AHEAD	0	0	8	48"	x	48"	16	128
W20-4	ONE LANE ROAD AHEAD	2	0	2	48"	x	48"	16	32
W21-5	SHOULDER WORK	0	2	0	48"	x	48"	16	32
G20-2	END ROAD WORK	3	2	2	36"	x	18"	4.5	13.5
G20-4	WAIT FOLLOW PILOT CAR	1	0	1	30"	x	18"	3.75	3.75
W20-7a	FLAGGER	2	0	2	36"	x	36"	9	18
<b>CONVENTIONAL ROAD TRAFFIC CONTROL SIGN SQFT:</b>								<b>1160.3</b>	

\*Pay Quantities are based on the assumption that Local Roads will be constructed concurrently with either Phase A or Phase B, and Diversions concurrently with either Phase C or Phase D; no adjustment has been made for alternative sequencing

**ITEMIZED LIST FOR EXIT 46 DETOUR SIGNING (STRUCTURE INSTALLATION AND REMOVAL)**

		CONVENTIONAL ROAD							
SIGN CODE	SIGN DESCRIPTION	MAX SIGNS (PHASE A)	MAX SIGNS (PHASE B)	MAX SIGNS (PHASE C)	SIGN SIZE		SQFT PER SIGN	PAY QUANTITY	
M1-1	INTERSTATE ROUTE MARKER (2 digits)	16	18	11	24"	x	24"	4	72
M3-2	DIRECTION MARKER (EAST)	8	9	0	24"	x	12"	2	18
M3-4	DIRECTION MARKER (WEST)	8	9	11	24"	x	12"	2	22
M4-8	DETOUR	16	18	11	24"	x	12"	2	36
M4-8a	END DETOUR	2	2	1	24"	x	18"	3	6
M6-1	DIRECTIONAL ARROW - Horizontal Single head (L/R)	8	8	6	21"	x	15"	2.2	17.5
M6-2	DIRECTINOAL ARROW - Diagonal	2	2	0	21"	x	15"	2.2	4.4
M6-3	DIRECTION ARROW - Vertical Single Head	6	8	5	21"	x	15"	2.2	17.5
<b>EXPRESSWAY/INTERSTATE DETOUR SIGN SQFT:</b>								<b>193.4</b>	



Plotted From - bayview\_colaneri

File - ...Section\_C-Traffic\_Control\_Notes.Docx

FOR BIDDING PURPOSES ONLY



STATE OF SOUTH DAKOTA

PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	C12	C85

Plotting Date: 4/8/2026

Rev: 9/30/2025 BRC  
Rev: 3/06/2026 BRC

Rev: 3/25/2026 BRC  
Rev: 4/8/2026 BRC

**ITEMIZED LIST FOR OVERWIDTH DETOUR SIGNING**

SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	PAY QTY (SQFT)
SPECIAL	NO VEHICLES OVER 12 FT WIDE	2	120" x 42"	35.0	70
SPECIAL	WIDTH RESTRICTION I-90 EAST 12 FT MAX 14 MILES AHEAD USE ALT ROUTE	1	168" x 144"	168.0	168
SPECIAL	WIDTH RESTRICTION I-90 WEST 12 FT MAX 126 MILES AHEAD USE ALT ROUTE	1	168" x 144"	168.0	168
SPECIAL	WIDTH RESTRICTION 12 FT MAXIMUM 14 MILES AHEAD USE ALT ROUTE	1	168" x 102"	119.0	119
SPECIAL	WIDTH RESTRICTION 12 FT MAXIMUM 126 MILES AHEAD USE ALT ROUTE	1	168" x 102"	119.0	119
<b>OVERWIDTH DETOUR AND RESTRICTION SIGNING SQFT:</b>					<b>644.0</b>

**ITEMIZED TRAFFIC CONTROL DEVICES**

ITEM DESCRIPTION	EXPRESSWAY				LOCAL ROADS		DIVERSIONS	PAY QUANTITY
	TRAFFIC CONTROL DEVICES (PHASE A)	TRAFFIC CONTROL DEVICES (PHASE B)	TRAFFIC CONTROL DEVICES (PHASE C)	TRAFFIC CONTROL DEVICES (PHASE D)	TRAFFIC CONTROL DEVICES (ELK CREEK ROAD)	TRAFFIC CONTROL DEVICES (STURGIS ROAD)	TRAFFIC CONTROL DEVICES (DIVERSIONS)	
<b>Maximum Concurrent*</b>								
Type 3 Barricade (Each)	24	25	14	16	20	3	35	<b>51</b>
Channelizing Devices (Each)	62	53	88	119	121	59	98	<b>242</b>
Tubular Markers (Each)	0	0	399	387	0	0	0	<b>399</b>
Reflectorized Drums (Each)	70	61	272	283	20	0	23	<b>306</b>
42" Cone (Each)	0	0	35	23	0	0	0	<b>35</b>
Movable Concrete Barrier - Interior Section (Each)	462	318	204	61	0	0	0	<b>462</b>
Movable Concrete Barrier - End Section (Each)	12	10	12	4	0	0	0	<b>12</b>
<b>Cumulative</b>								
Remove and Reset Movable Concrete Barrier - Interior Section (Each)	142	478	204	61	0	0	0	<b>885</b>
Remove and Reset Moveable Concrete Barrier - End Section (Each)	2	12	12	4	0	0	0	<b>30</b>
Temporary Pavement Marking (Ft)	0	0	12920	14806	0	12356	0	<b>40,082</b>
4" Temporary Pavement Marking Tape Type I (Ft)	0	0	0	0	0	0	576	<b>576</b>
Remove Pavement Marking, 4" or Equivalent (Ft)	0	0	18530	14806	0	12356	576	<b>46,268</b>


\*Pay Quantities are based on the assumption that Local Roads will be constructed concurrently with either Phase A or Phase B, and Diversions concurrently with either Phase C or Phase D; no adjustment has been made for alternative sequencing

Plotted From - bayley\_colaneri

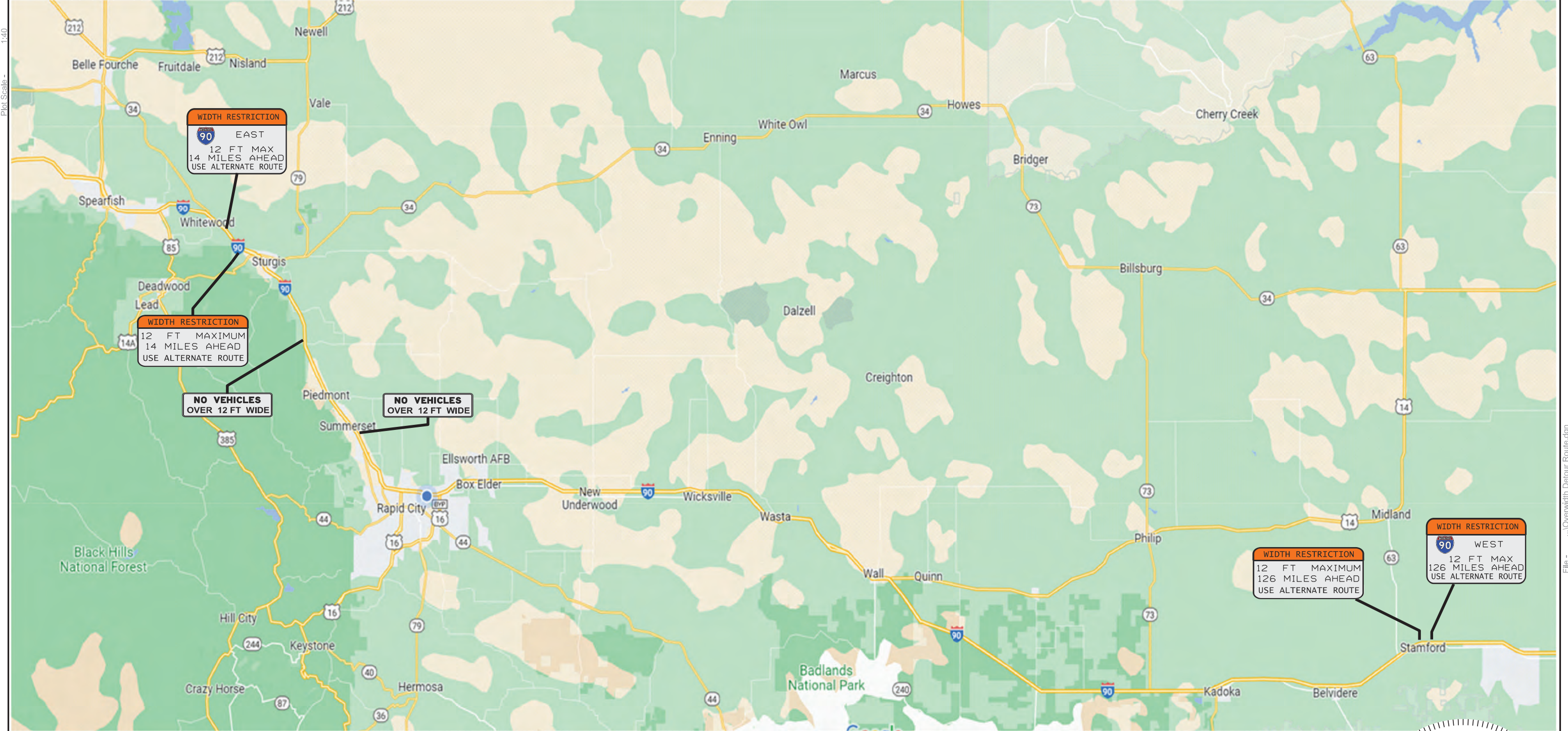
File - ...Section\_C-Traffic\_Control\_Notes.Docx



# OVERWIDTH RESTRICTION AND DETOUR SIGNING LAYOUT

 STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM-CR-EM 0901(187)44	C13	C85

Plotting Date: Revised 2/14/2024 - BRC  
 Revised 9/30/2025 - BRC  
 Revised 3/6/2026 - MRM



Plot Scale - 1:40

Plotted From - Marcus Martinez

File - ...:\Overwidth Detour Route.dgn

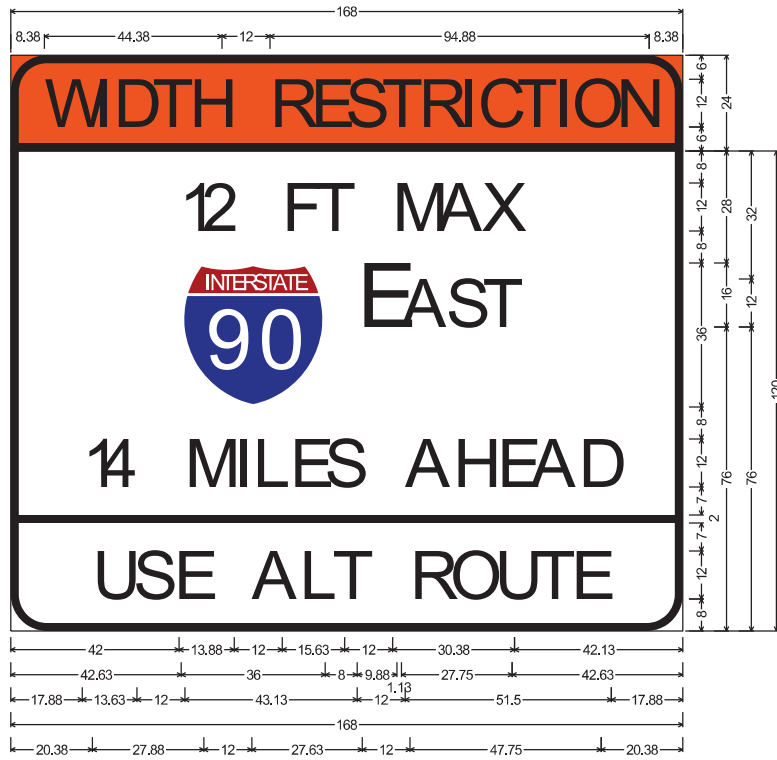


# OVERWIDTH SIGN DETAILS

FOR BIDDING PURPOSES ONLY

	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C14	C85

Plotting Date: 4/8/2026  
 Revised: 9/30/2025 - BRC  
 Revised: 3/06/2026 - MRM  
 Revised: 3/25/2026 - BRC

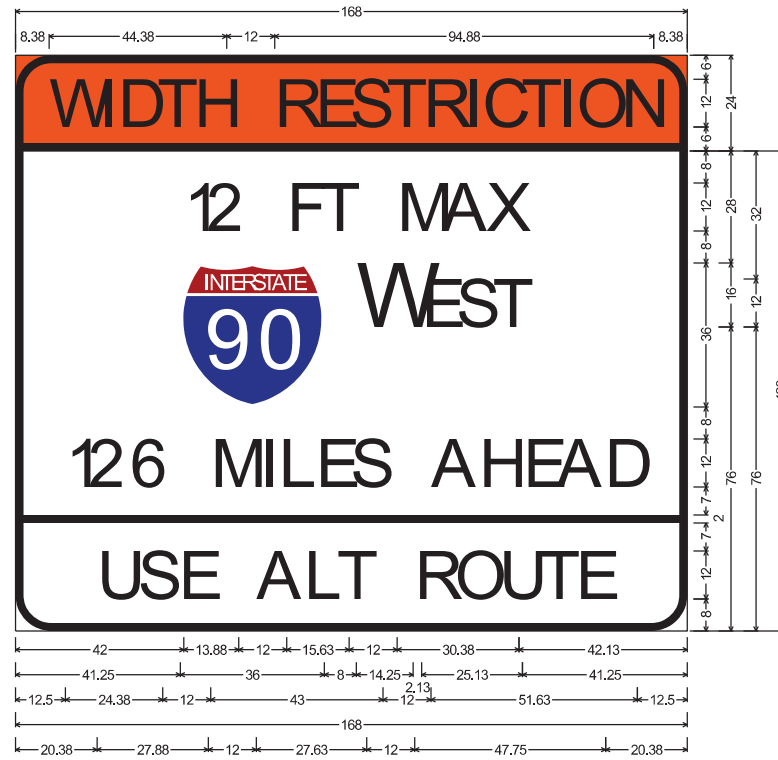


9.00" Radius, 2.00" Border, Black on Orange; "WIDTH RESTRICTION", D 2K;

9.00" Radius, 2.00" Border, Black on White; "12 FT MAX", D 2K; "EAST", D 2K; "14 MILES AHEAD", D 2K; "USE ALT ROUTE", D 2K;

Table of letter and object lefts

W	I	D	T	H
8.38	20.88	25.63	35.38	44.63
R	E	S	T	R
64.75	75.00	83.63	92.75	102.00
1	2	F	T	M
42.00	47.75	67.88	76.00	95.50
		A	X	
		106.63	117.75	
		E	A	S
		42.63	86.63	97.63
		108.88	118.00	
1	4	M	I	L
17.88	22.50	43.50	55.75	60.50
		69.75	78.38	98.63
		110.63	121.63	130.00
		142.00		
		-0.00		
U	S	E	A	L
20.38	30.63	40.75	60.25	72.25
		80.38	99.88	109.75
		121.00	130.88	140.13

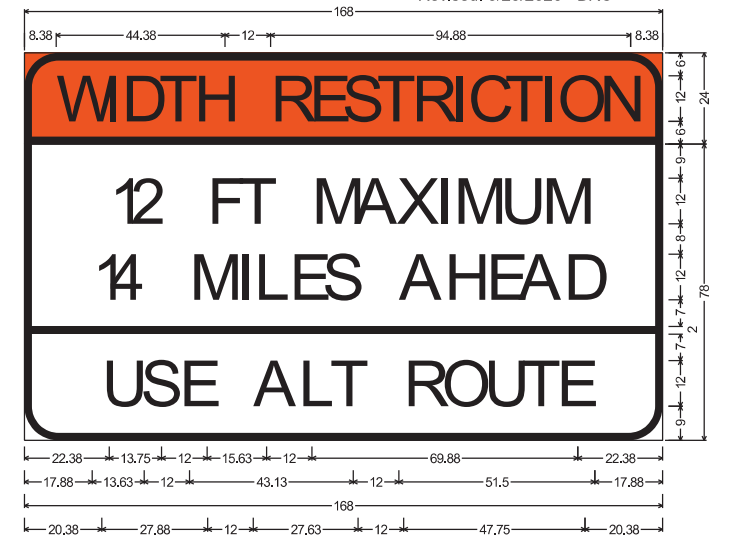


9.00" Radius, 2.00" Border, Black on Orange; "WIDTH RESTRICTION", D 2K;

9.00" Radius, 2.00" Border, Black on White; "12 FT MAX", D 2K; "WEST", D 2K; "126 MILES AHEAD", D 2K; "USE ALT ROUTE", D 2K;

Table of letter and object lefts

W	I	D	T	H
8.38	20.88	25.63	35.38	44.63
R	E	S	T	R
64.75	75.00	83.63	92.75	102.00
1	2	F	T	M
42.00	47.75	67.88	76.00	95.50
		A	X	
		106.63	117.75	
		W	E	S
		41.25	85.25	101.63
		110.25	119.38	
1	2	6	M	I
12.50	18.13	28.63	48.88	61.13
		65.88	75.13	83.75
		103.88	115.68	127.00
		135.38	147.38	
		-0.00		
U	S	E	A	L
20.38	30.63	40.75	60.25	72.25
		80.38	99.88	109.75
		121.00	130.88	140.13

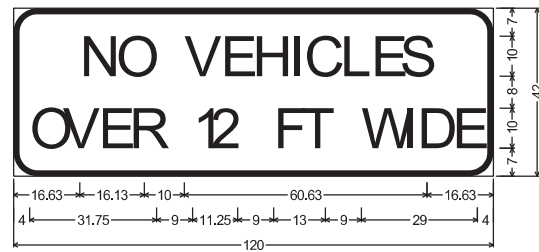


9.00" Radius, 2.00" Border, Black on Orange; "WIDTH RESTRICTION", D 2K;

9.00" Radius, 2.00" Border, Black on White; "12 FT MAXIMUM", D 2K; "14 MILES AHEAD", D 2K; "USE ALT ROUTE", D 2K;

Table of letter and object lefts

W	I	D	T	H
8.38	20.88	25.63	35.38	44.63
R	E	S	T	R
64.75	75.00	83.63	92.75	102.00
1	2	F	T	M
22.38	28.00	48.13	56.25	75.75
		86.88	98.00	108.25
		113.00	125.25	136.38
1	4	M	I	L
17.88	22.50	43.50	55.75	60.50
		69.75	78.38	98.63
		110.63	121.63	130.00
		142.00		
		-0.00		
U	S	E	A	L
20.38	30.63	40.75	60.25	72.25
		80.38	99.88	109.75
		121.00	130.88	140.13



6.00" Radius, 1.50" Border, Black on White; "NO VEHICLES", D 2K; "OVER 12 FT WIDE", D 2K 90% spacing;

Table of letter and object lefts

N	O	V	E	H
16.63	25.63	42.75	51.75	59.75
		68.88	72.75	81.75
		89.38	96.63	
O	V	E	R	1
4.00	12.25	21.25	29.00	44.75
		49.25	65.00	71.75
		W	I	D
		87.00	97.25	101.00
		109.75		



# TRAFFIC CONTROL

## I-90 (NORTH OF EXIT 44)

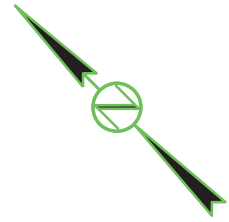
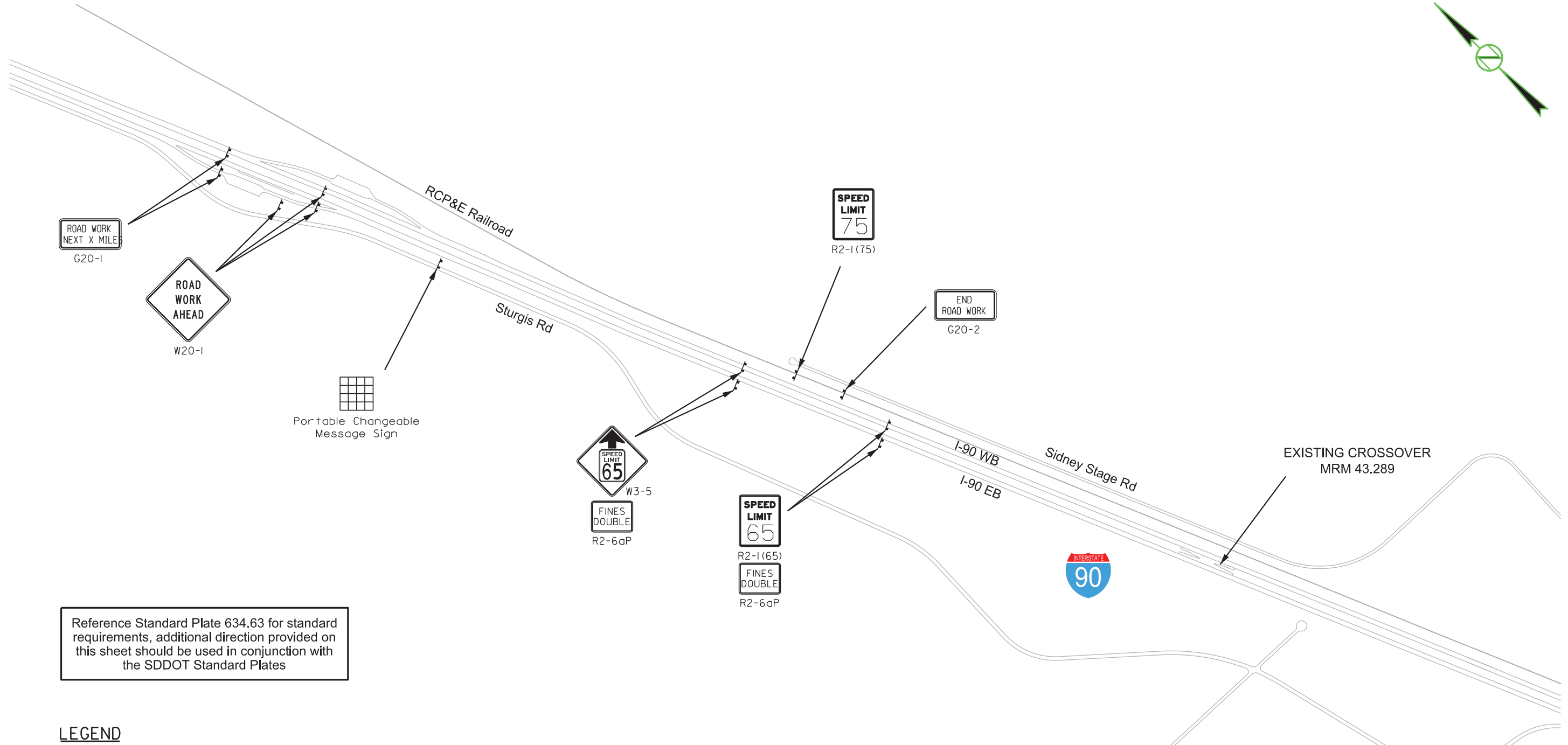
### FIXED SIGNING

FOR BIDDING PURPOSES ONLY

	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C15	C85

Plotting Date: 4/8/2026  
 Rev: 2/14/2025 BRC  
 Rev: 9/30/2025 BRC  
 Rev: 4/8/2026 BRC

Plot Scale - 1:1000



Reference Standard Plate 634.63 for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates

#### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plotted From - Marcus, Martinez

File - ...Fixed Signing (North).dgn

# TRAFFIC CONTROL

## I-90 (EXIT 48)

### FIXED SIGNING

FOR BIDDING PURPOSES ONLY

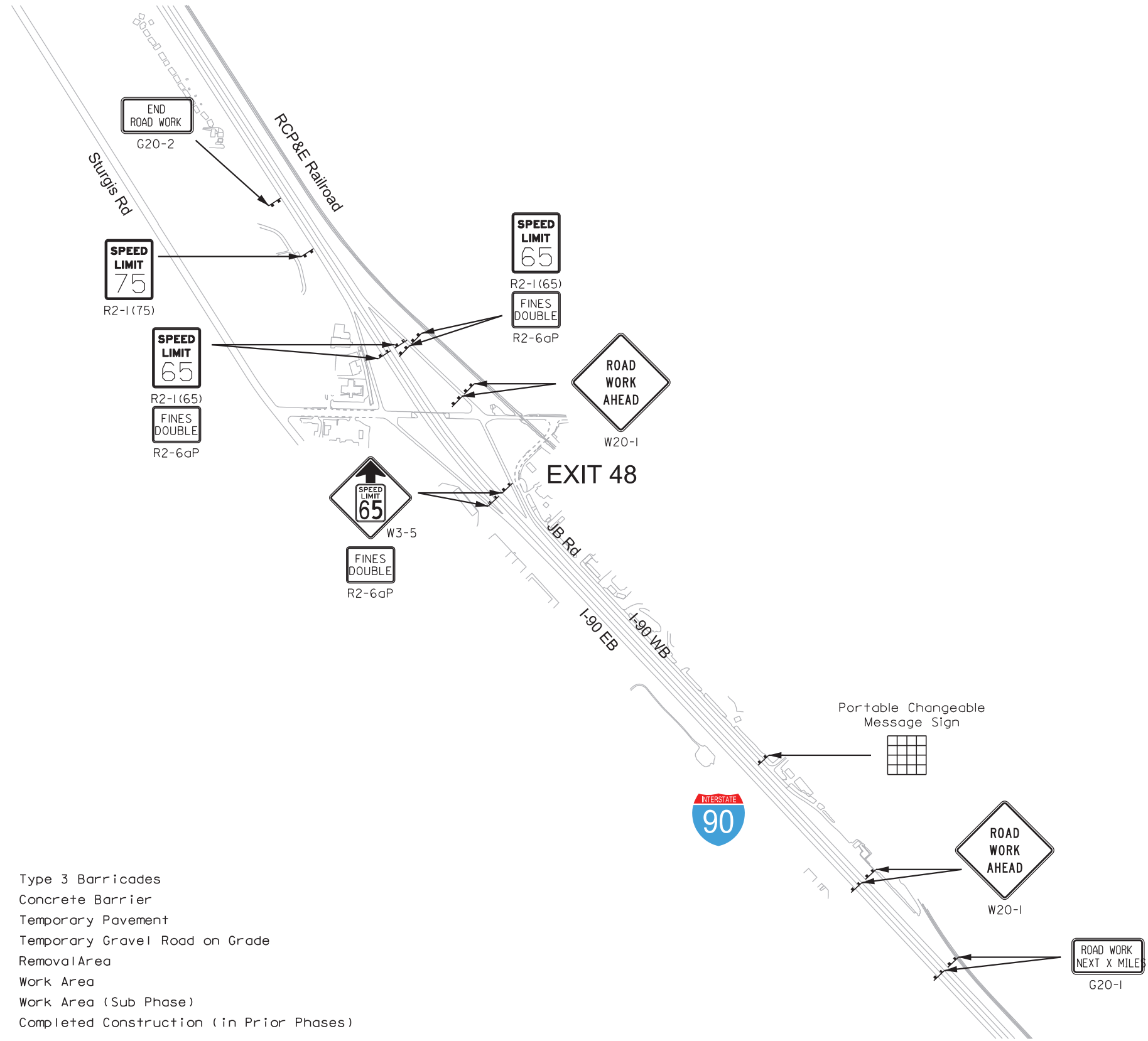
	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C16	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 4/8/2026 BRC



Plot Scale - 1:1000



Reference Standard Plate 634.63 for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates

#### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plotted From - Marcus, Martinez

File - ...Fixed Signing (South).dgn

# TRAFFIC CONTROL

## OVERVIEW - PHASES A & B

FOR BIDDING PURPOSES ONLY

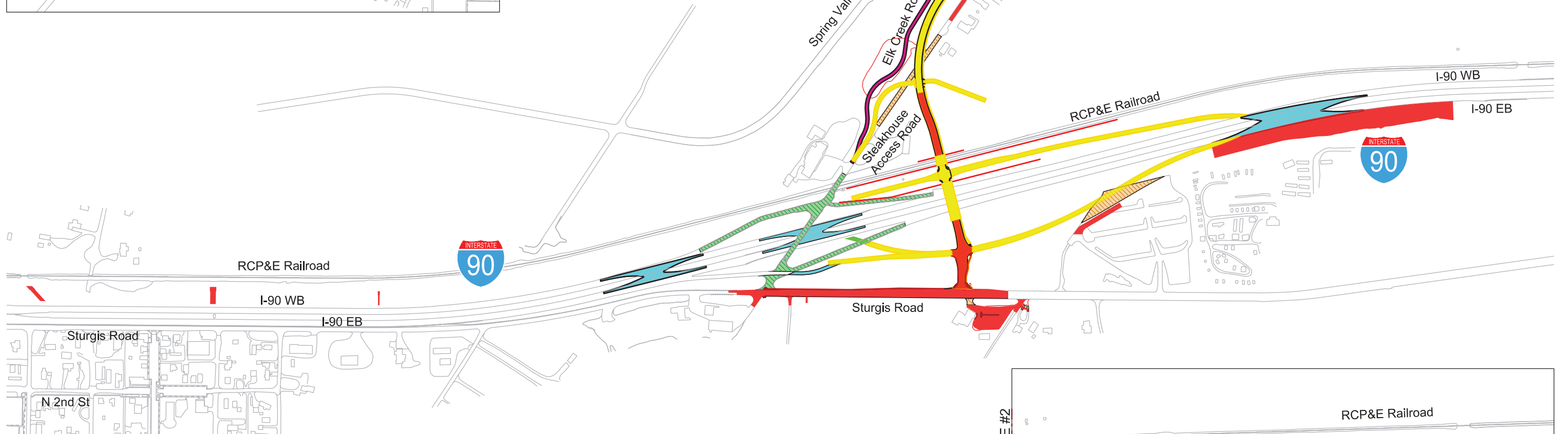
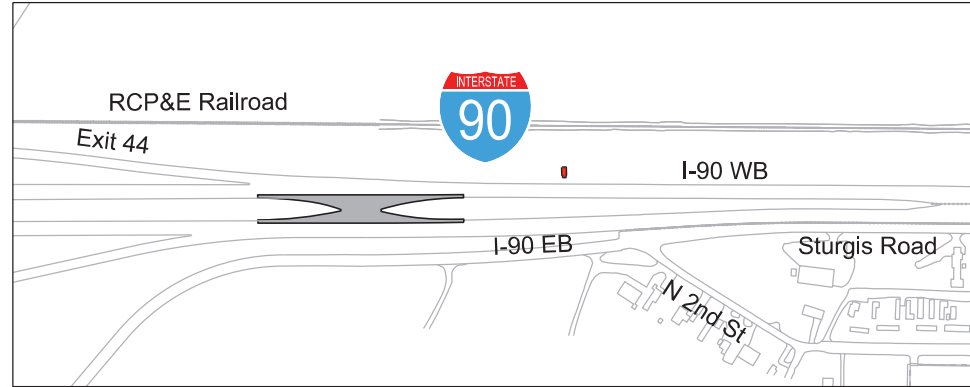
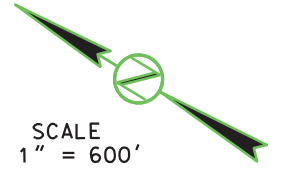


STATE OF SOUTH DAKOTA

PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	C17	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



### LEGEND

- |  |                |  |                    |
|--|----------------|--|--------------------|
|  | Phase A        |  | Phase A Removals   |
|  | Phase A/B      |  | Phase B Removals   |
|  | Phase B        |  | Phase C Removals   |
|  | Phase C        |  | Phase D Removals   |
|  | Phase D        |  | Temporary Pavement |
|  | Completed Work |  | Temporary Gravel   |



Plot Scale - 1:600

Plotted From - Marcus, Martinez

File - ...Overall Phase Phases A & B.dgn

# TRAFFIC CONTROL

## OVERVIEW - PHASES C & D

FOR BIDDING PURPOSES ONLY

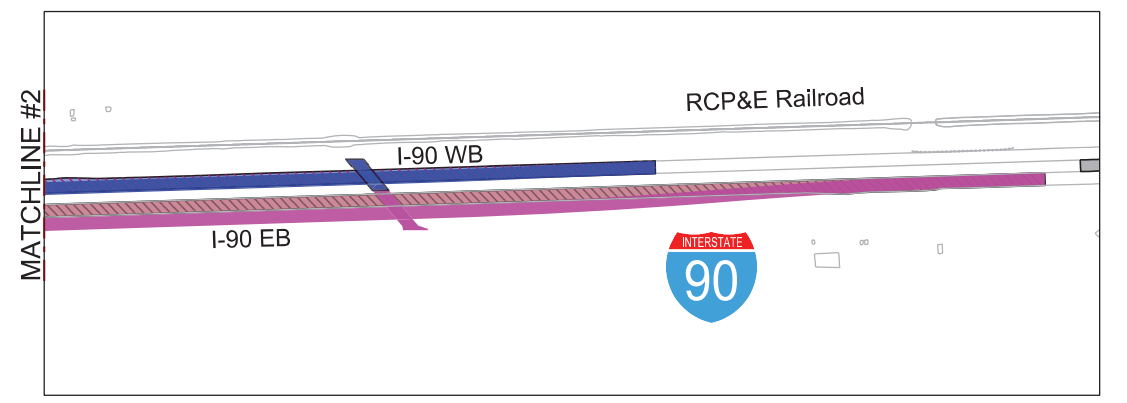
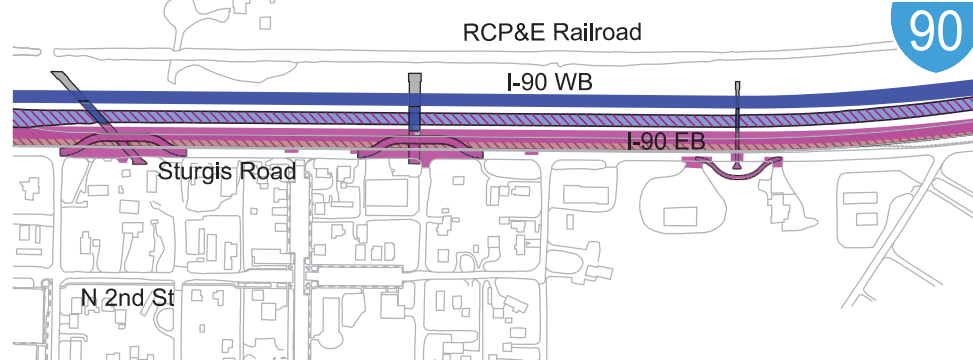
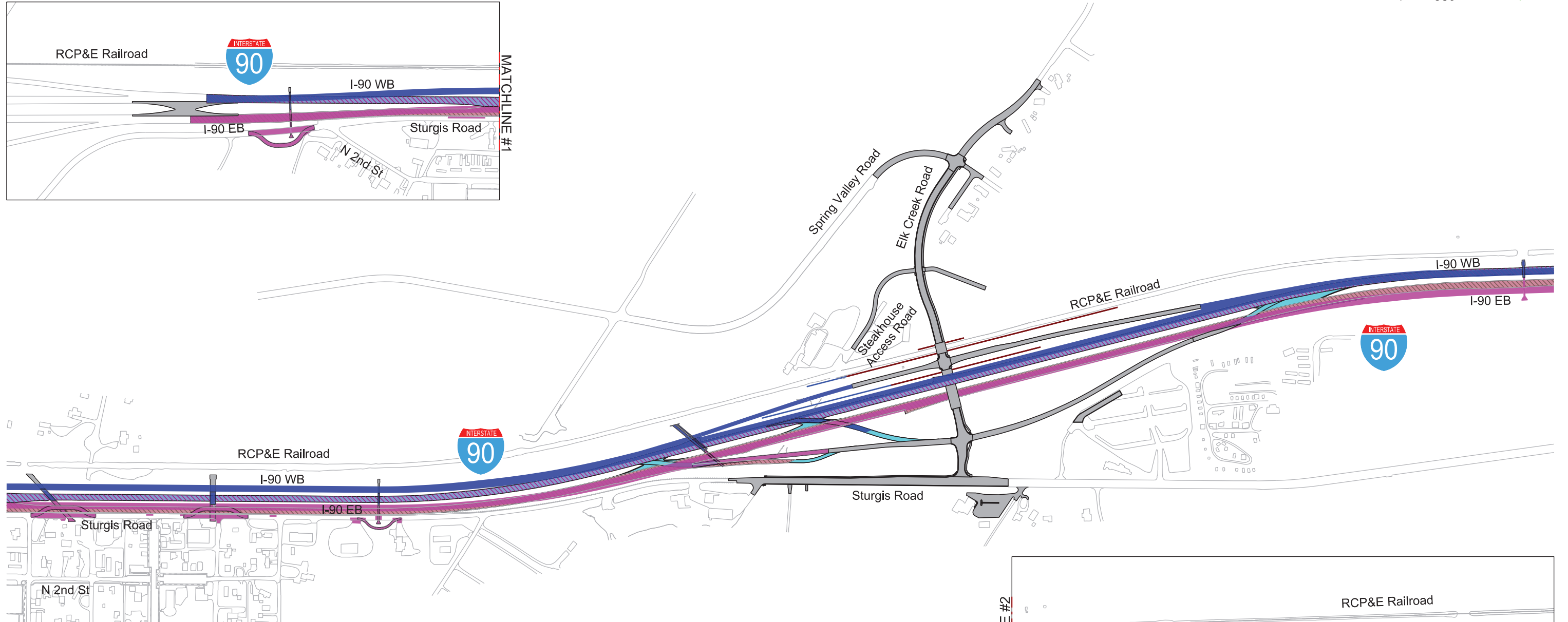
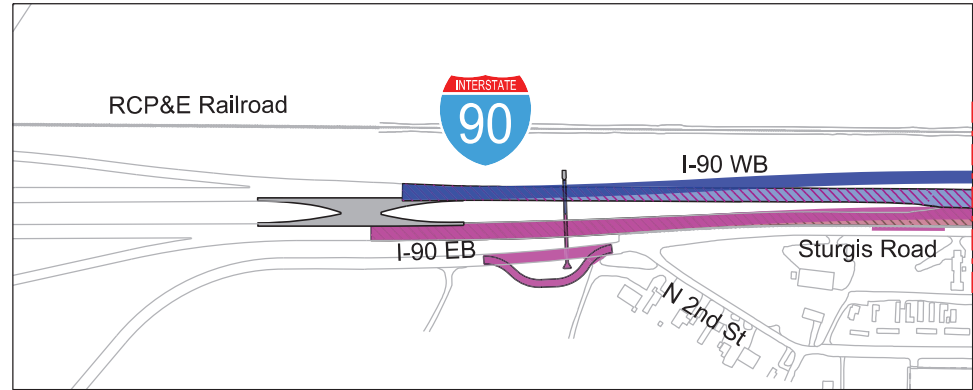
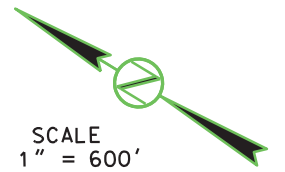


STATE OF SOUTH DAKOTA

PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	C18	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



### LEGEND

	Phase A		Phase A Removals
	Phase A/B		Phase B Removals
	Phase B		Phase C Removals
	Phase C		Phase D Removals
	Phase D		Temporary Pavement
	Completed Work		Temporary Gravel



Plot Scale - 1:800

Plotted From - Marcus\_Martinez

File - ...Overall Phase Phases C & D.dgn

# TRAFFIC CONTROL

## I-90 MAINLINE - PHASE A

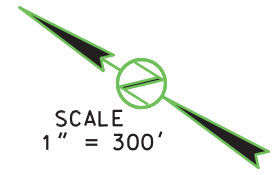
FOR BIDDING PURPOSES ONLY



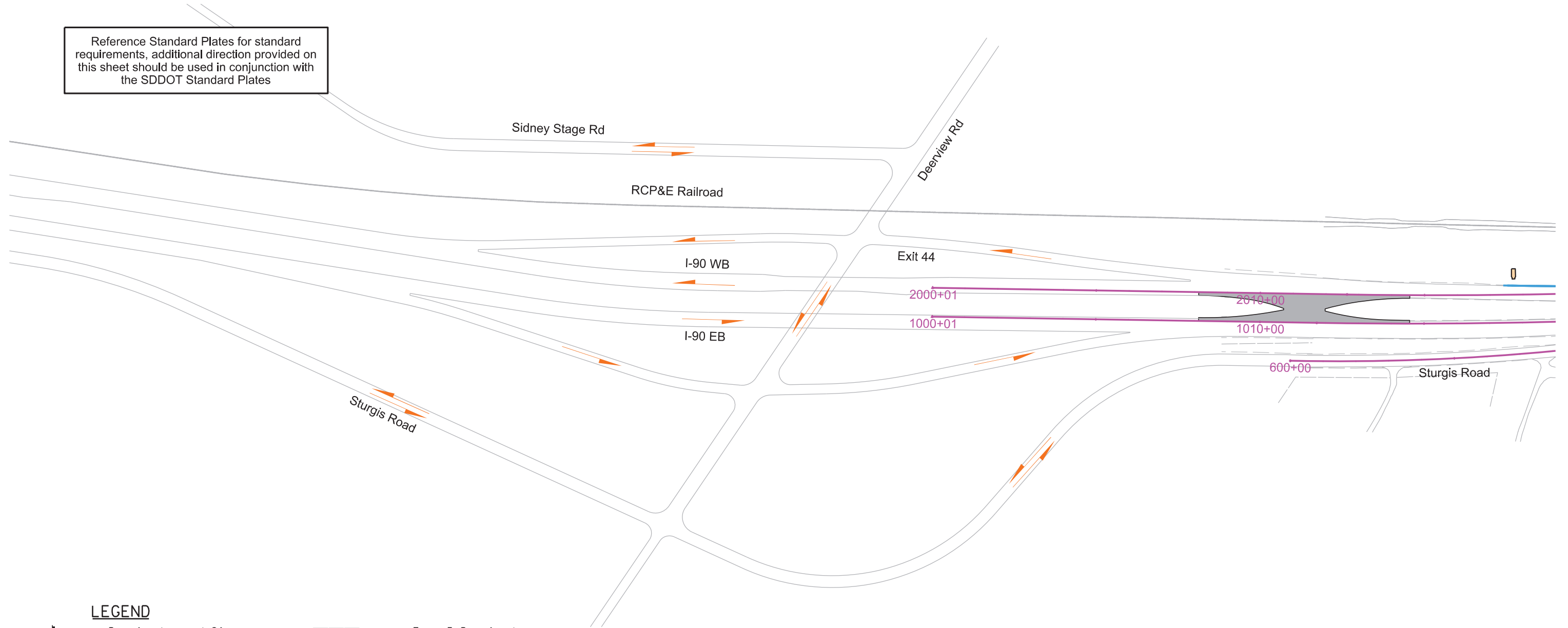
STATE OF SOUTH DAKOTA

PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	C19	C85

Plotting Date: 4/8/2026  
 Rev: 2/14/2025 BRC  
 Rev: 9/30/2025 BRC  
 Rev: 3/6/2026 BRC



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase A-01.dgn

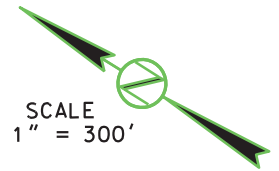
# TRAFFIC CONTROL

## I-90 MAINLINE - PHASE A

FOR BIDDING PURPOSES ONLY

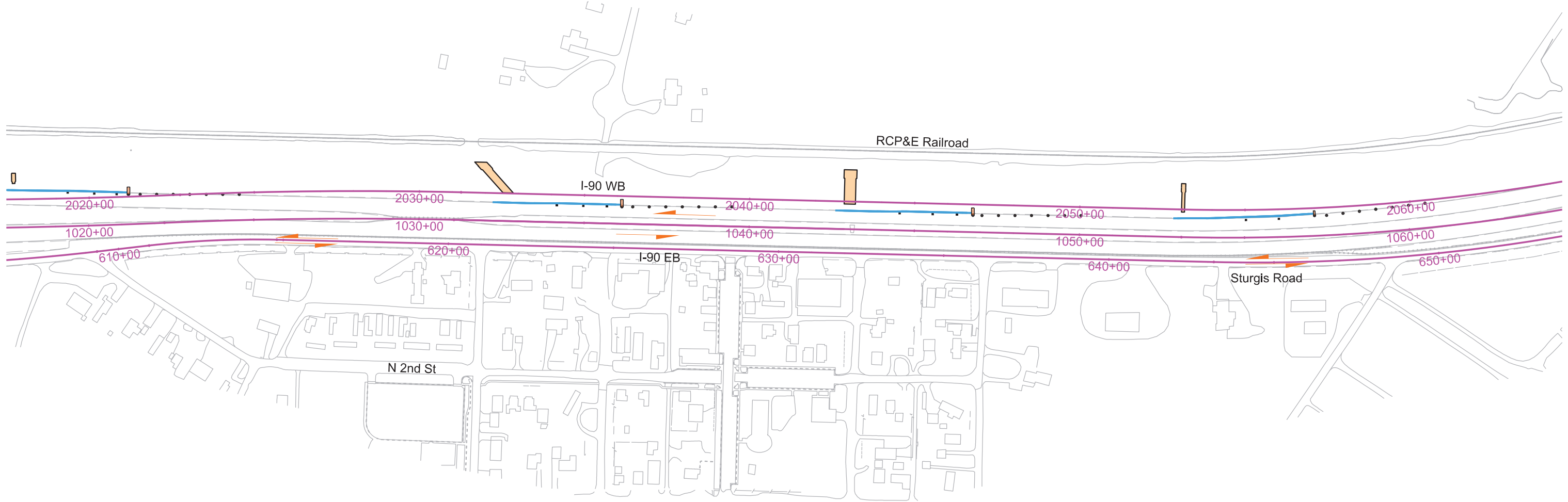
	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C20	C85

Plotting Date: 4/8/2026  
 Rev: 2/14/2025 BRC  
 Rev: 9/30/2025 BRC  
 Rev: 3/6/2026 BRC



SCALE  
1" = 300'

Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase A-02.dgn

# TRAFFIC CONTROL

## EXIT 46 INTERCHANGE - PHASE A

FOR BIDDING PURPOSES ONLY

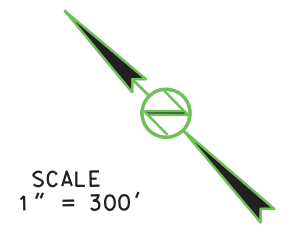


STATE OF SOUTH DAKOTA

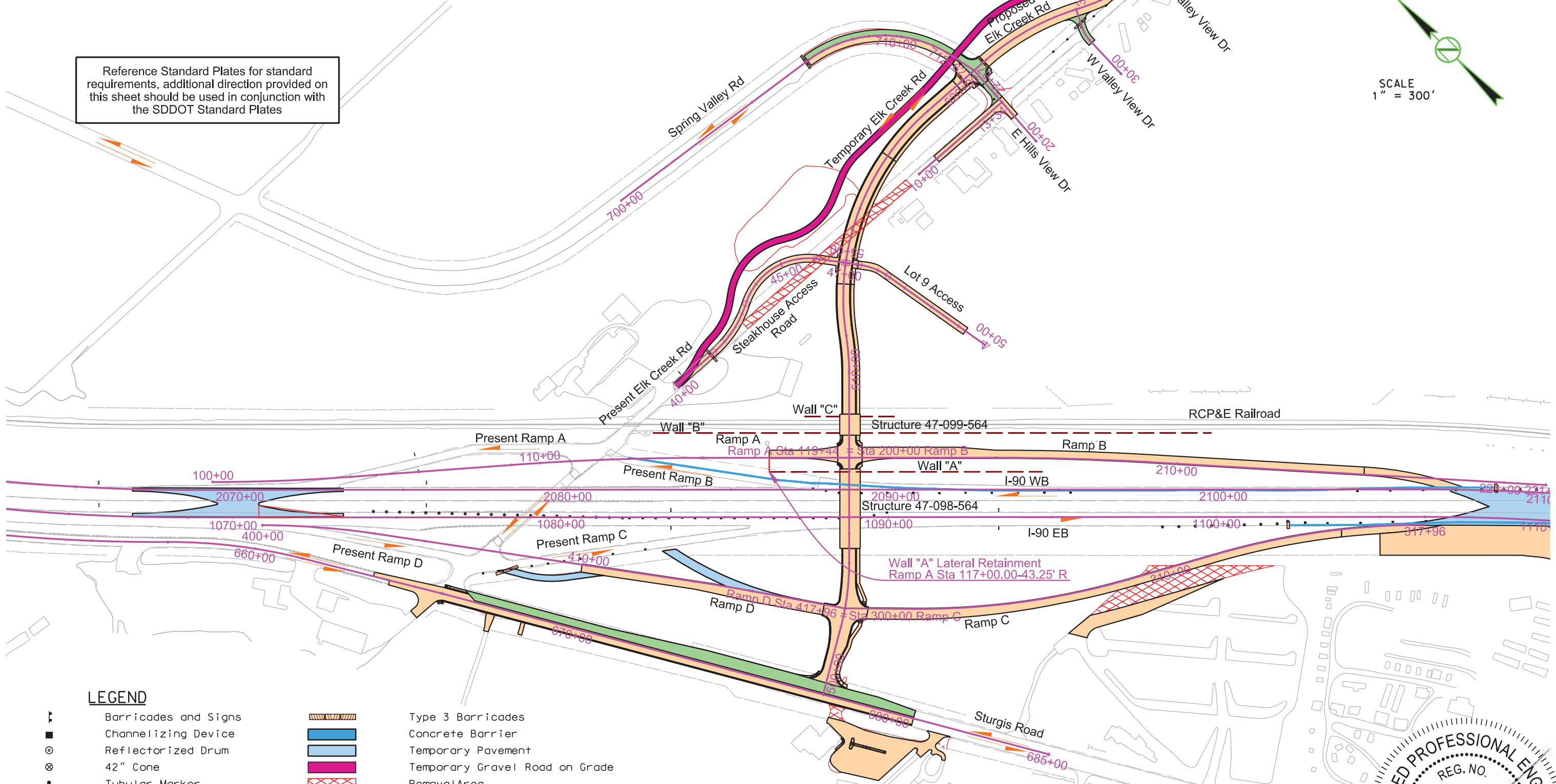
PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	C21	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels. See Section E for Temp Wall Detail

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase A-03.dgn

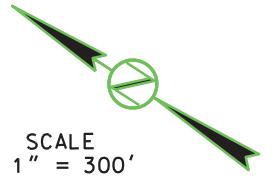
# TRAFFIC CONTROL

## I-90 MAINLINE - PHASE A

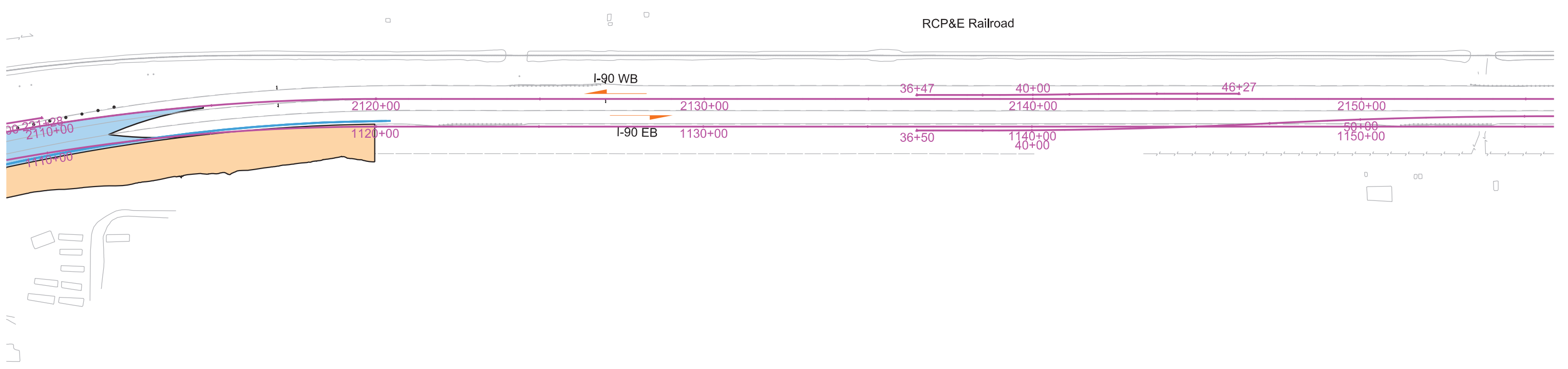
FOR BIDDING PURPOSES ONLY

	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C22	C85

Plotting Date: 4/8/2026  
 Rev: 2/14/2025 BRC  
 Rev: 9/30/2025 BRC  
 Rev: 3/6/2026 BRC



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase A-04.dgn

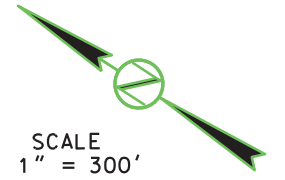
# TRAFFIC CONTROL

## I-90 MAINLINE - PHASE A

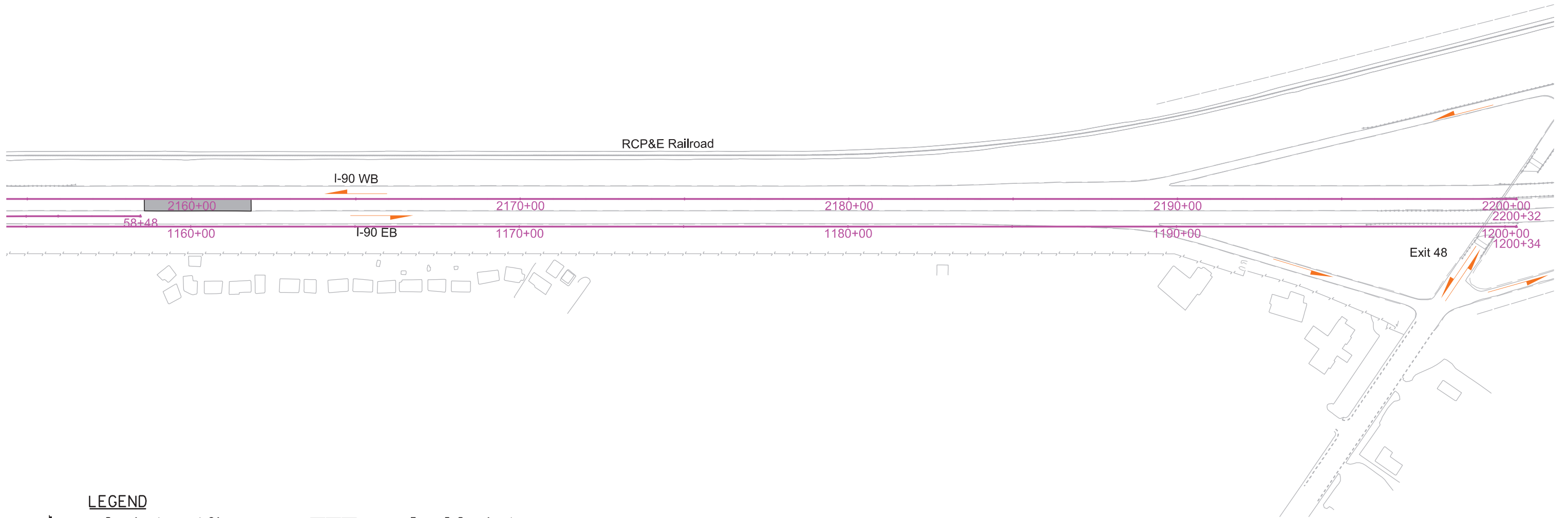
FOR BIDDING PURPOSES ONLY

	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C23	C85

Plotting Date: 4/8/2026  
 Rev: 2/14/2025 BRC  
 Rev: 9/30/2025 BRC  
 Rev: 3/6/2026 BRC



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase A-05.dgn

# TRAFFIC CONTROL

## ELK CREEK ROAD - PHASE A

### TEMPORARY ELK CREEK ROAD

FOR BIDDING PURPOSES ONLY



STATE OF SOUTH DAKOTA

PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	C24	C85

Plotting Date: 4/8/2026

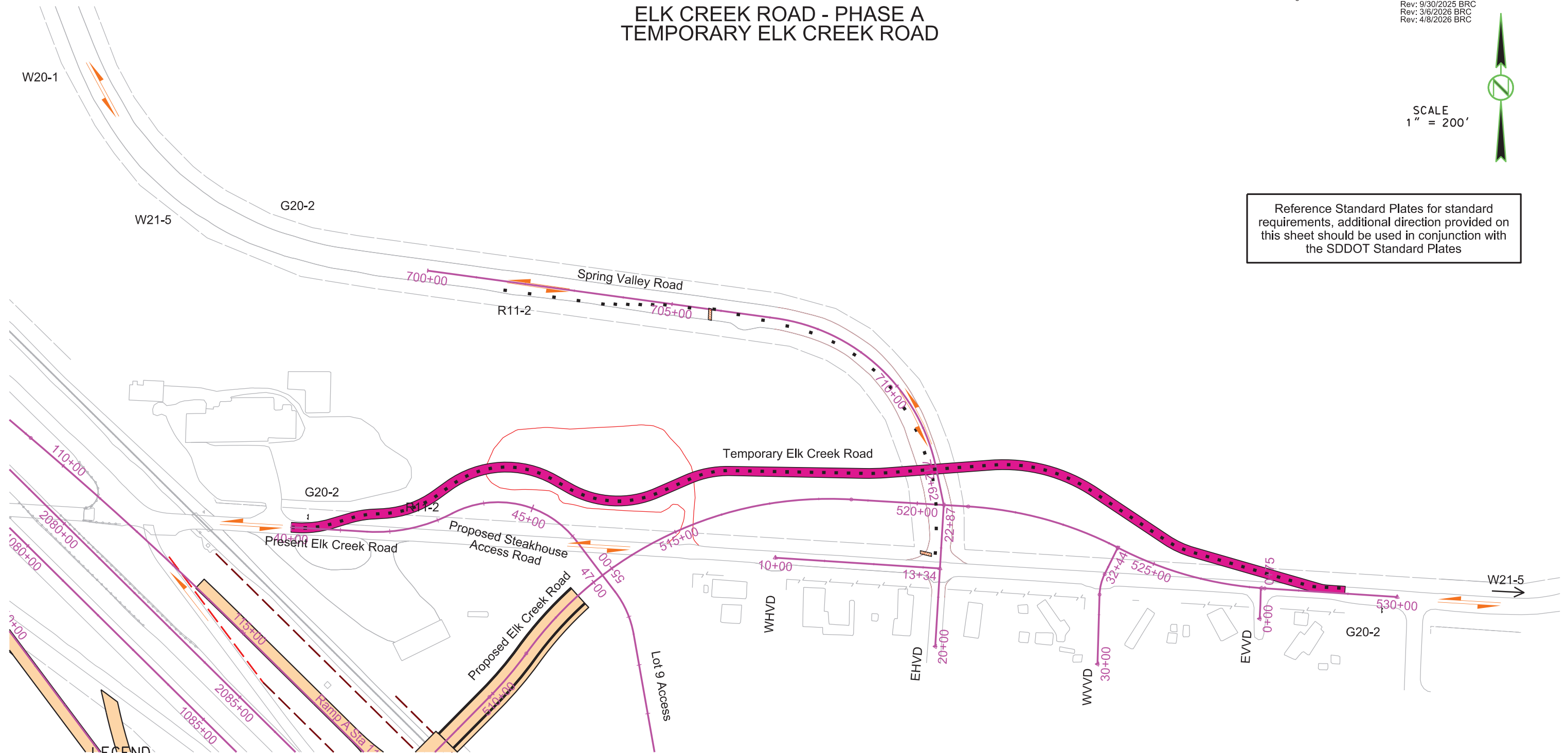
Rev: 2/14/2025 BRC  
 Rev: 9/30/2025 BRC  
 Rev: 3/6/2026 BRC  
 Rev: 4/8/2026 BRC



SCALE  
1" = 200'

Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates

Plot Scale - 1:200



#### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase A-ECR\_01.dgn

# TRAFFIC CONTROL

FOR BIDDING PURPOSES ONLY

ELK CREEK ROAD - PHASE A  
 SPRING VALLEY ROAD, WEST HILLS VIEW DRIVE,  
 EAST HILLS VIEW DRIVE, LOT 9 ACCESS,  
 PRESENT ELK CREEK ROAD REMOVAL



STATE OF SOUTH DAKOTA

PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	C25	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
 Rev: 9/30/2025 BRC  
 Rev: 3/6/2026 BRC  
 Rev: 4/8/2026 BRC



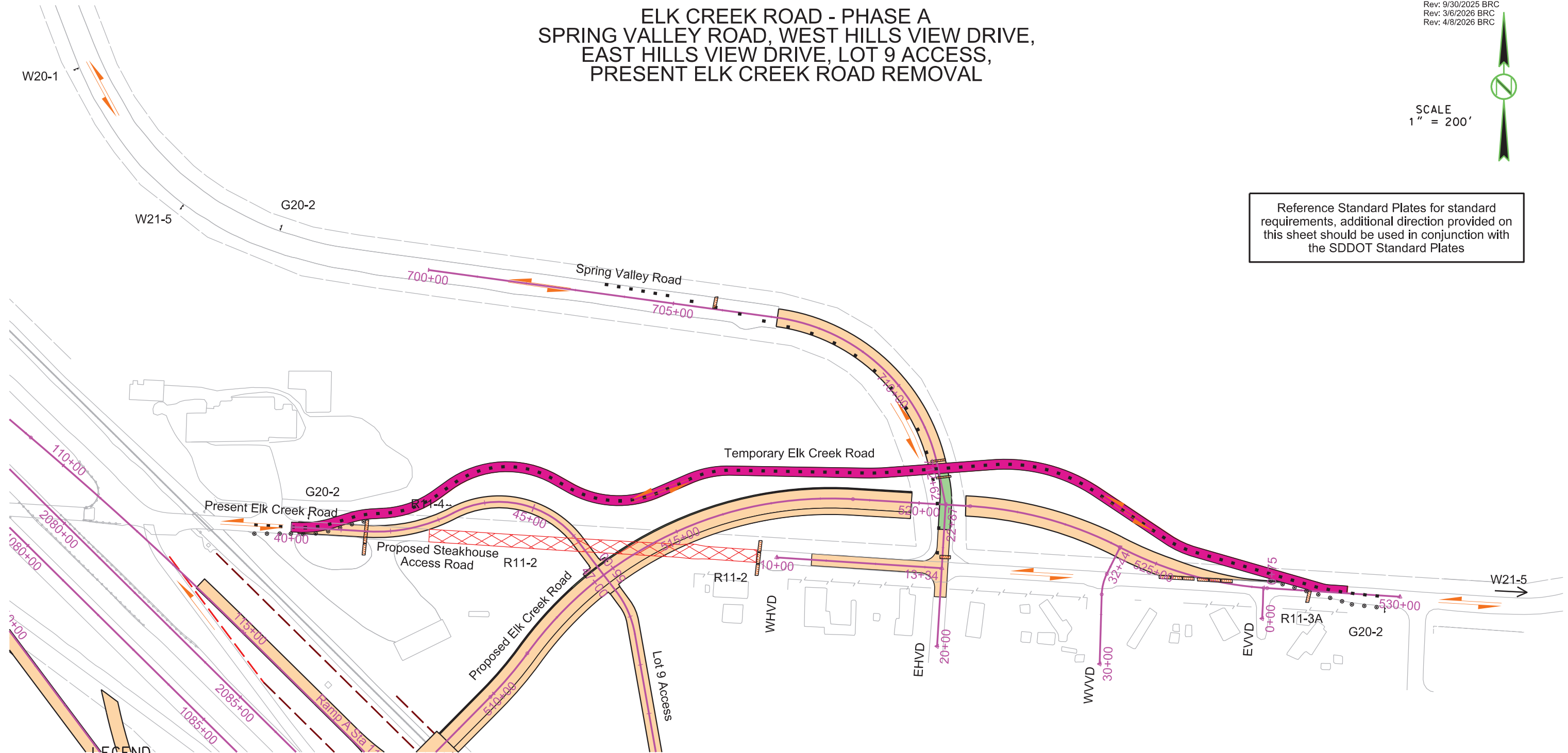
SCALE  
 1" = 200'

Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates

Plot Scale - 1:200

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase A-ECR\_02.dgn



## LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



# TRAFFIC CONTROL

## ELK CREEK ROAD - PHASE A

### STEAKHOUSE ACCESS ROAD, WEST VALLEY VIEW DRIVE, EAST VALLEY VIEW DRIVE

FOR BIDDING PURPOSES ONLY

	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM-CR-EM 0901(187)44	C26	C85	

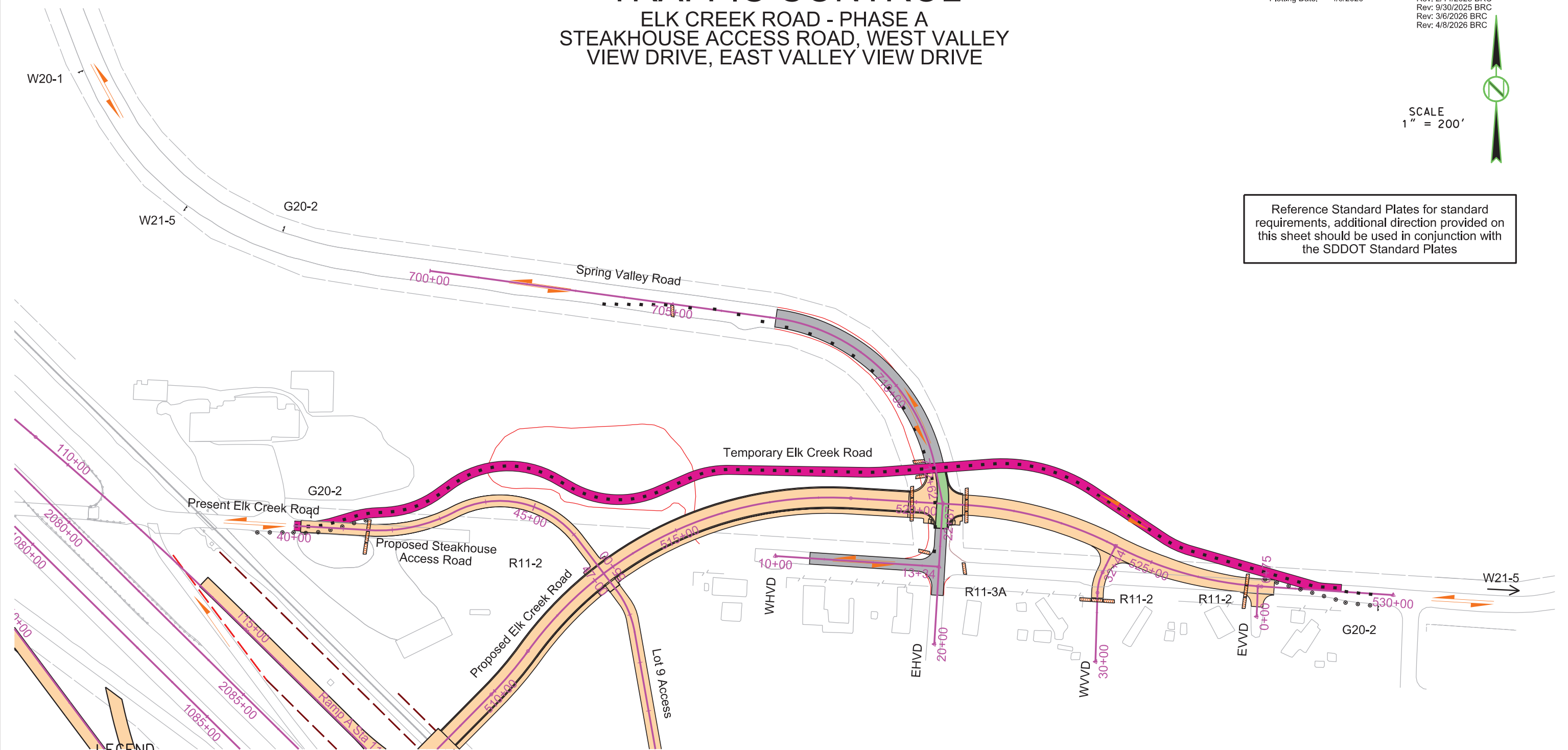
Plotting Date: 4/8/2026  
 Rev: 2/14/2025 BRC  
 Rev: 9/30/2025 BRC  
 Rev: 3/6/2026 BRC  
 Rev: 4/8/2026 BRC

SCALE  
1" = 200'



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates

Plot Scale - 1:200



#### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase A-ECR\_03.dgn

# TRAFFIC CONTROL

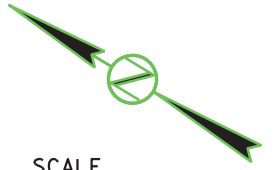
## STURGIS ROAD - PHASE A

### NORTH LANE GRADING

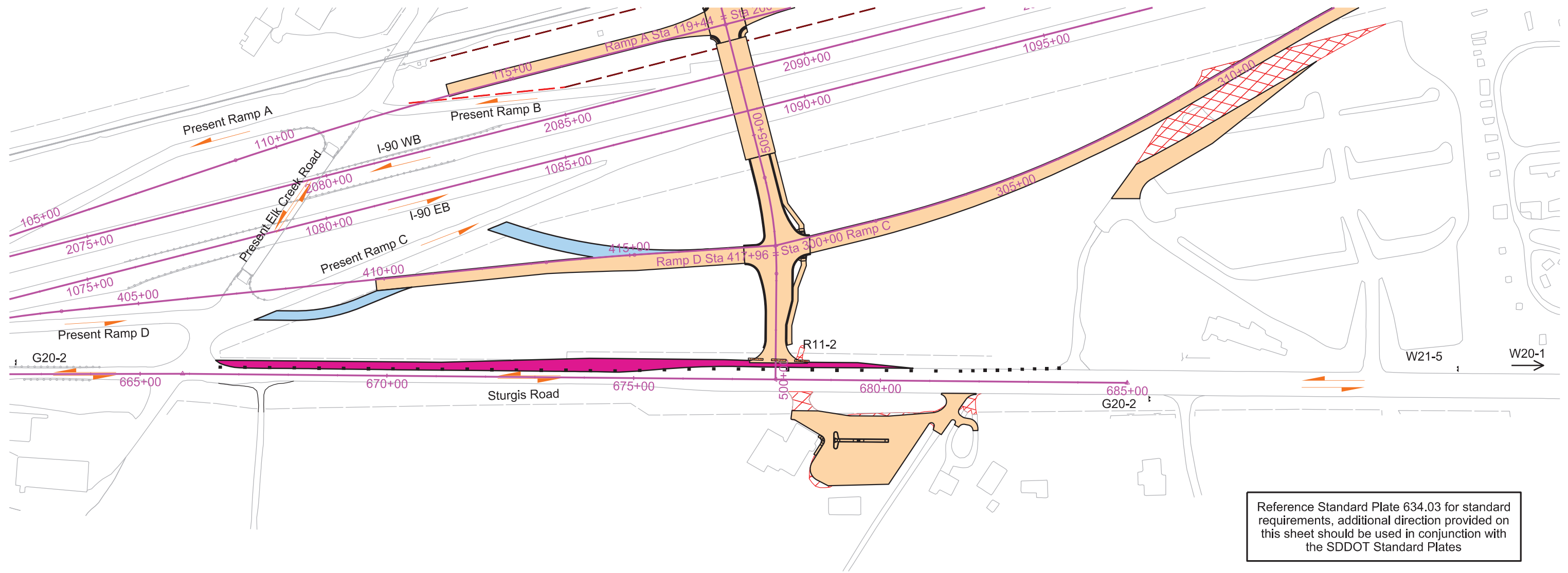
FOR BIDDING PURPOSES ONLY

	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM-CR-EM 0901(187)44	C27	C85	

Plotting Date: 4/8/2026  
 Rev: 2/14/2025 BRC  
 Rev: 9/30/2025 BRC  
 Rev: 3/6/2026 BRC



SCALE  
1" = 200'



Reference Standard Plate 634.03 for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates

#### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:200

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase A-Sturgis\_01.dgn

# TRAFFIC CONTROL

## STURGIS ROAD - PHASE A

### SOUTH LANE GRADING AND PAVING

FOR BIDDING PURPOSES ONLY

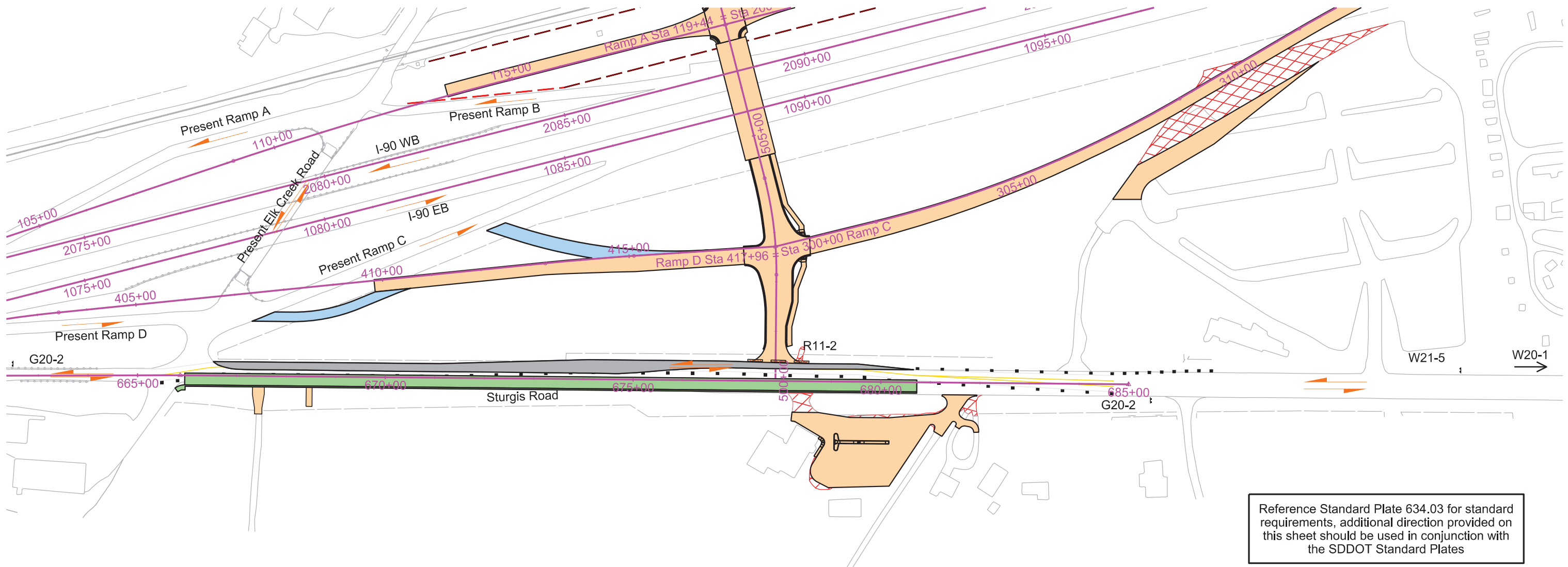
	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C28	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



SCALE  
1" = 200'



Reference Standard Plate 634.03 for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates

#### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.  
For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:200

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase A-Sturgis\_02.dgn

# TRAFFIC CONTROL

## STURGIS ROAD - PHASE A

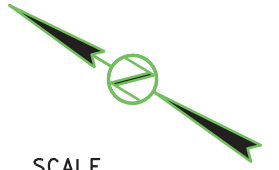
### NORTH LANE PAVING

FOR BIDDING PURPOSES ONLY

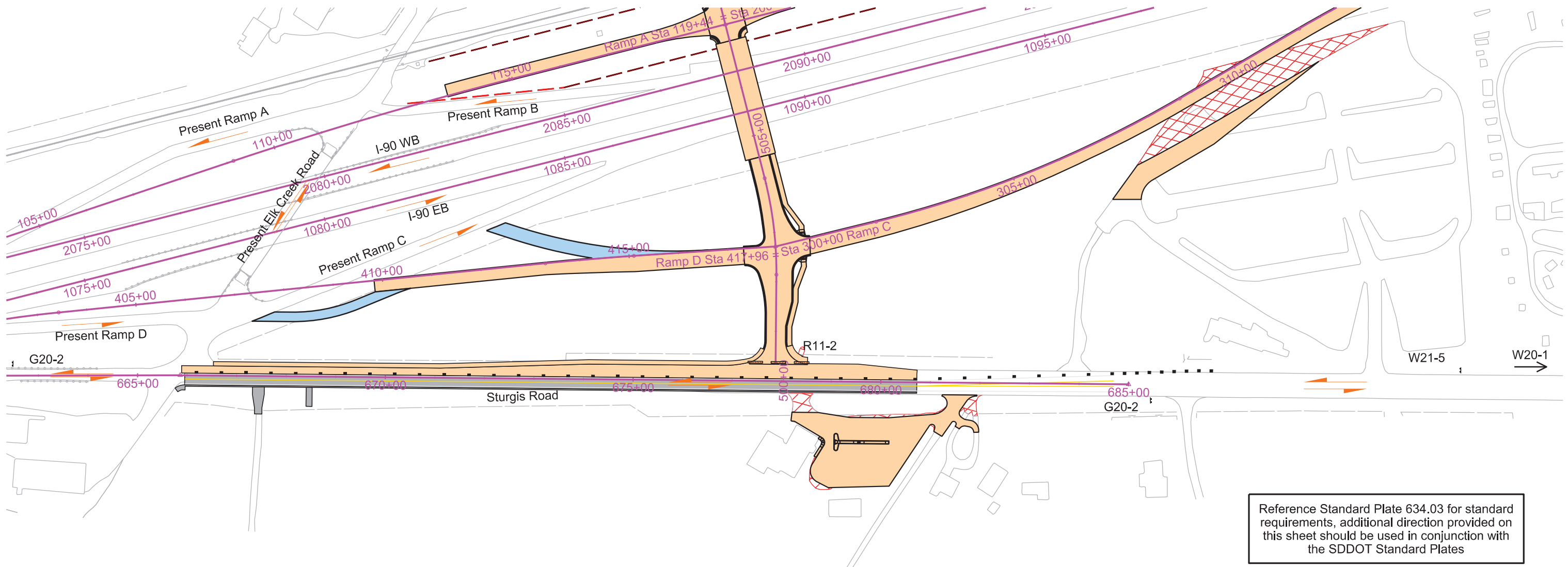
	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C29	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



SCALE  
1" = 200'



Reference Standard Plate 634.03 for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates

#### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:200

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase A-Sturgis\_03.dgn

# TRAFFIC CONTROL

## STURGIS ROAD - PHASE A

FOR BIDDING PURPOSES ONLY

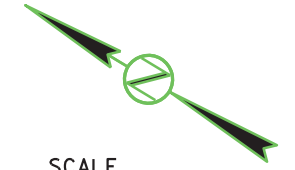


STATE OF SOUTH DAKOTA

PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	C30	C85

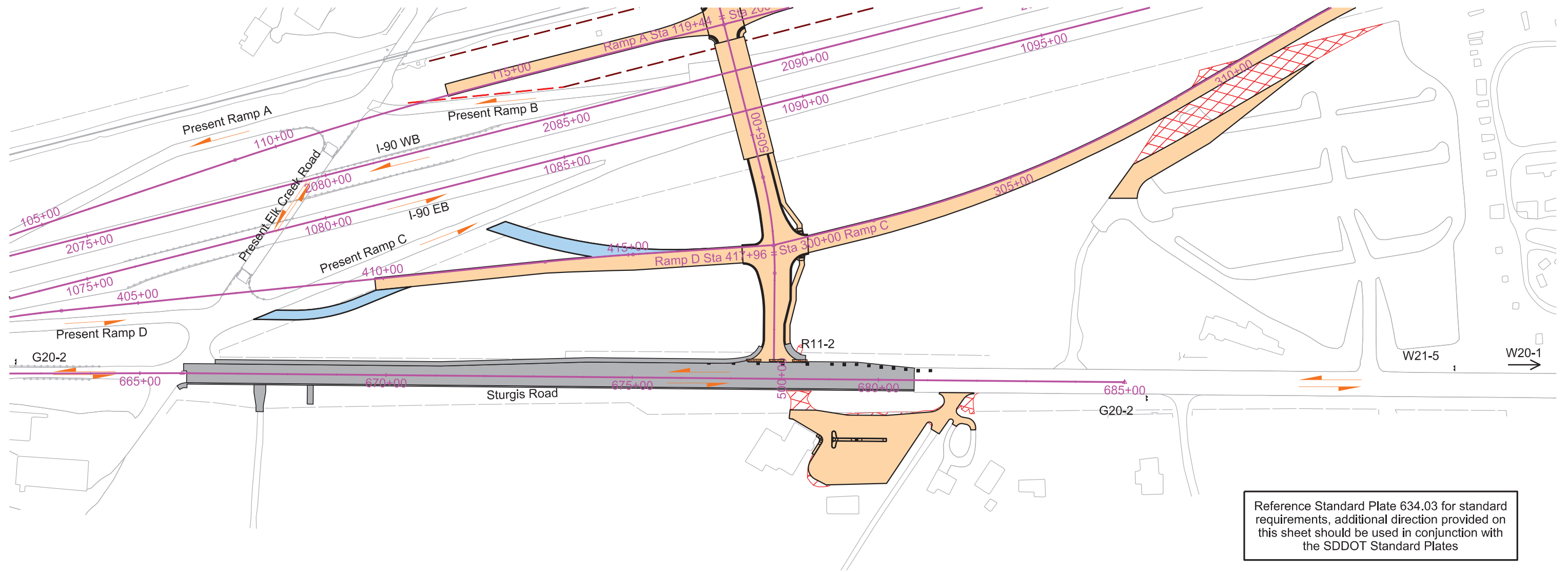
Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



SCALE  
1" = 200'

Plot Scale - 1:200



Reference Standard Plate 634.03 for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates

### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase A-Sturgis\_04.dgn

Plot Scale - 1:2000

Plotted From - Marcus, Martinez

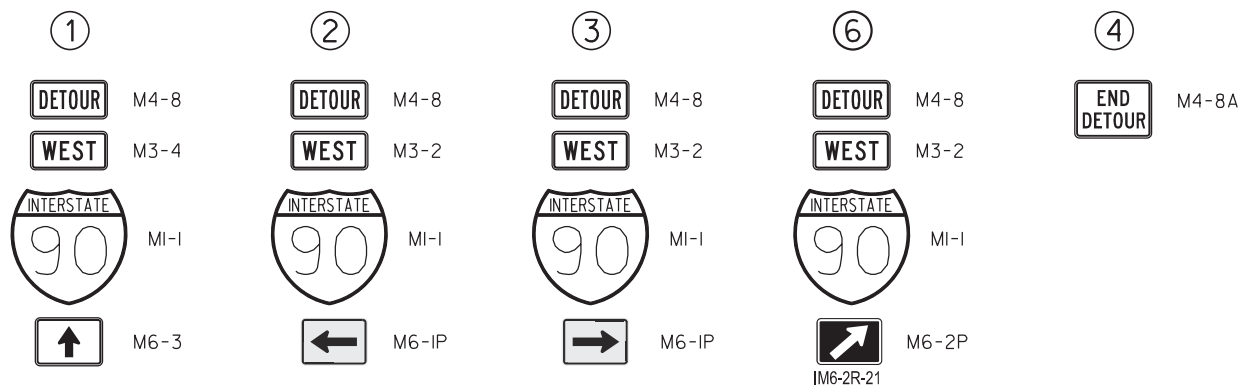
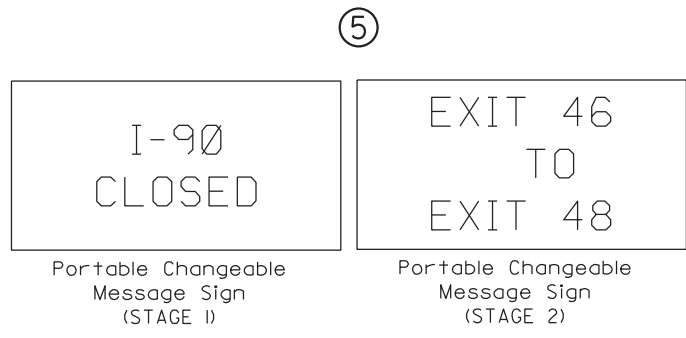
# DETOUR ROUTE

## I-90 EB - PHASE B (NIGHT WORK ONLY) EXIT 46 STRUCTURE INSTALLATION

FOR BIDDING PURPOSES ONLY

	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C31	C85

Plotting Date: 4/8/2026  
 Rev: 2/14/2025 BRC  
 Rev: 9/30/2025 BRC  
 Rev: 3/6/2026 BRC



### Notes:

The Contractor will follow MUTCD Standard Construction Traffic Control for Ramp closures, including advance signing and devices.

Existing Signs that conflict with detour route will be masked.



File - ...Phase B Structure Install (EB).dgn

Plot Scale - 1:2000

Plotted From - Marcus, Martinez

# DETOUR ROUTE

## I-90 WB - PHASE B (NIGHT WORK ONLY) EXIT 46 STRUCTURE INSTALLATION

FOR BIDDING PURPOSES ONLY

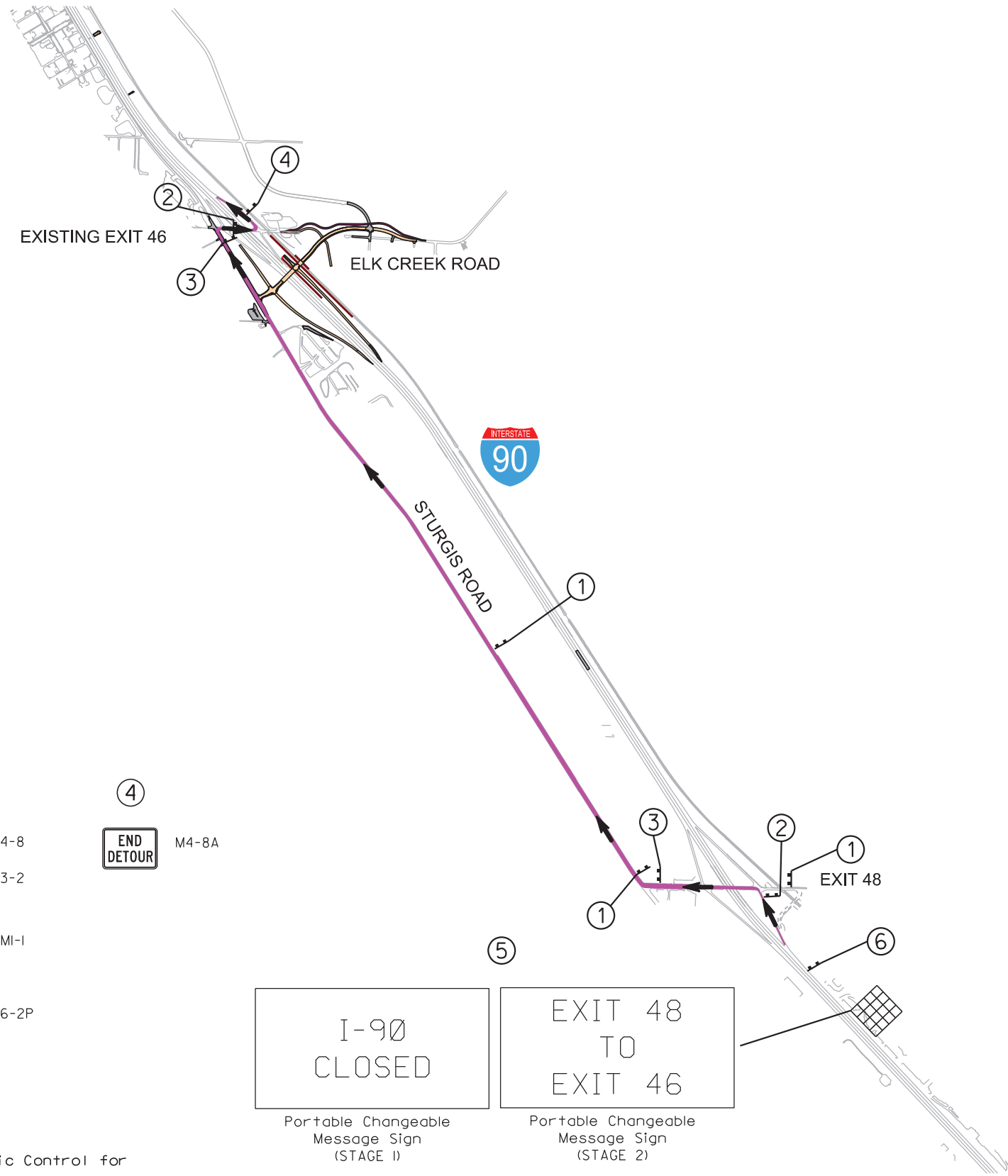


STATE OF SOUTH DAKOTA

PROJECT	IM-CR-EM 0901(187)44
SHEET	C32
TOTAL SHEETS	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



- ①

DETOUR M4-8

WEST M3-4

INTERSTATE MI-1

90 MI-1

↑ M6-3
- ②

DETOUR M4-8

WEST M3-2

INTERSTATE MI-1

90 MI-1

← M6-IP
- ③

DETOUR M4-8

WEST M3-2

INTERSTATE MI-1

90 MI-1

→ M6-IP
- ④

DETOUR M4-8

WEST M3-2

INTERSTATE MI-1

90 MI-1

↗ M6-2P

IM6-2R-21
- ⑤

END DETOUR M4-8A

I-90  
CLOSED

Portable Changeable Message Sign (STAGE 1)

EXIT 48  
TO  
EXIT 46

Portable Changeable Message Sign (STAGE 2)

**Notes:**

The Contractor will follow MUTCD Standard Construction Traffic Control for Ramp closures, including advance signing and devices.

Existing Signs that conflict with detour route will be masked.



File - ...Phase B Structure Install (WB).sgh

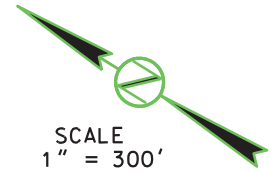
# TRAFFIC CONTROL

## I-90 MAINLINE - PHASE B

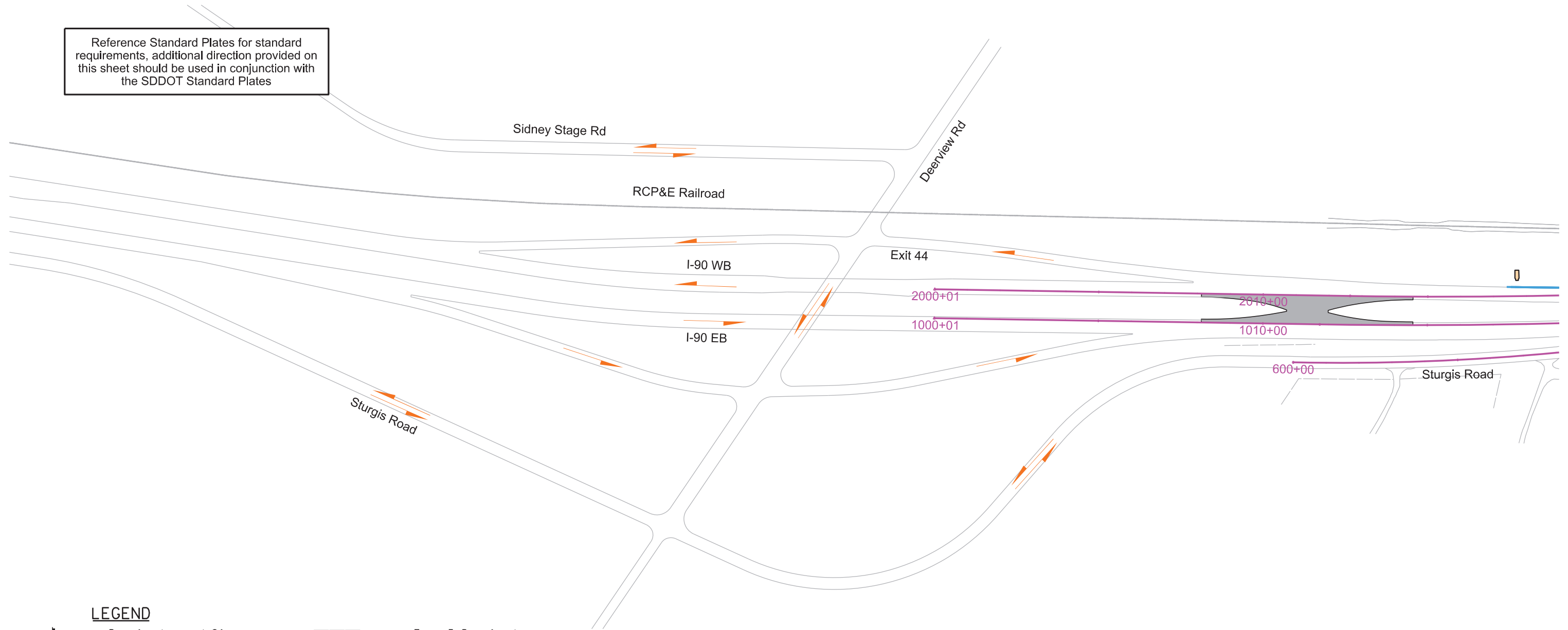
FOR BIDDING PURPOSES ONLY

	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C33	C85

Plotting Date: 4/8/2026  
 Rev: 2/14/2025 BRC  
 Rev: 9/30/2026 BRC  
 Rev: 3/6/2026 BRC



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase B-01.dgn

# TRAFFIC CONTROL

## I-90 MAINLINE - PHASE B

FOR BIDDING PURPOSES ONLY

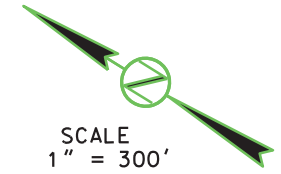


STATE OF SOUTH DAKOTA

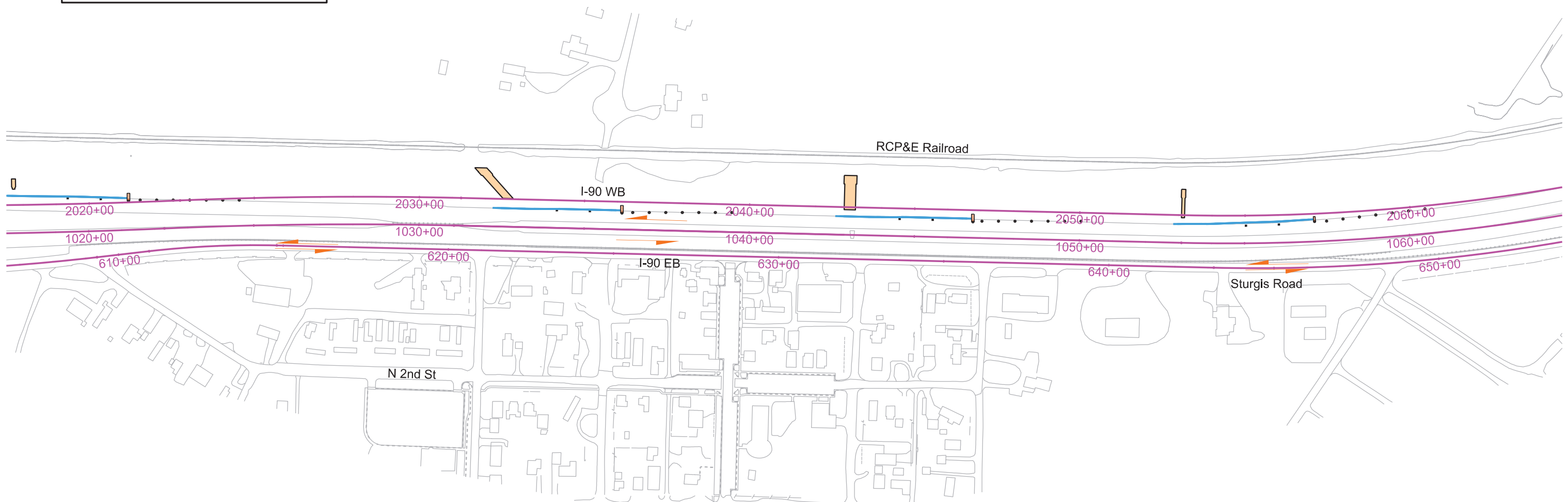
PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	C34	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase B-02.dgn

# TRAFFIC CONTROL

## I-90 MAINLINE AND EXIT 46 INTERCHANGE - PHASE B

FOR BIDDING PURPOSES ONLY



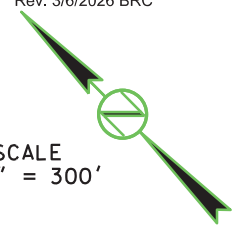
STATE OF SOUTH DAKOTA

PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	C35	C85

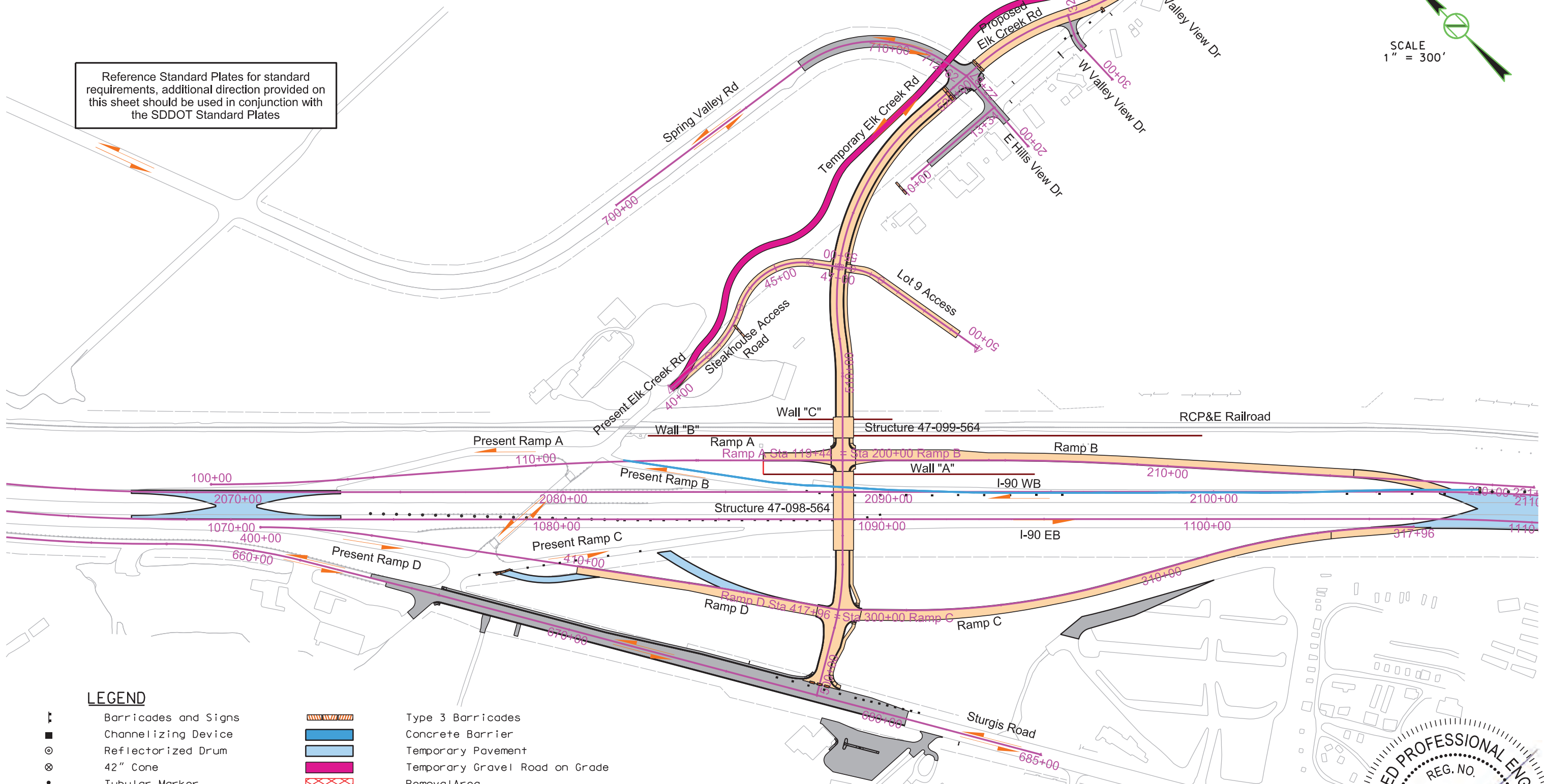
Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC

SCALE  
1" = 300'



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates

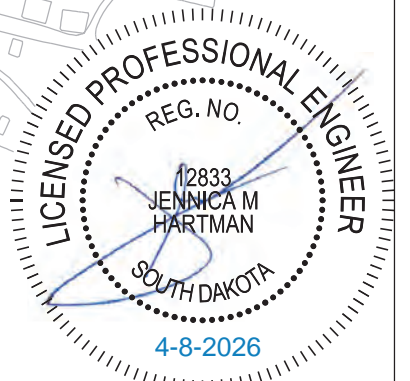


### LEGEND

- |                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li> Barricades and Signs</li> <li> Channelizing Device</li> <li> Reflectorized Drum</li> <li> 42" Cone</li> <li> Tubular Marker</li> <li> Pavement Markings</li> <li> Arrow Board</li> <li> Traffic Flow</li> </ul> | <ul style="list-style-type: none"> <li> Type 3 Barricades</li> <li> Concrete Barrier</li> <li> Temporary Pavement</li> <li> Temporary Gravel Road on Grade</li> <li> Removal Area</li> <li> Work Area</li> <li> Work Area (Sub Phase)</li> <li> Completed Construction (in Prior Phases)</li> </ul> | <ul style="list-style-type: none"> <li> Type 3 Barricades</li> <li> Concrete Barrier</li> <li> Temporary Pavement</li> <li> Temporary Gravel Road on Grade</li> <li> Removal Area</li> <li> Work Area</li> <li> Work Area (Sub Phase)</li> <li> Completed Construction (in Prior Phases)</li> </ul> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase B-03.dgn

# TRAFFIC CONTROL

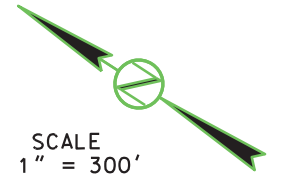
## I-90 MAINLINE - PHASE B

FOR BIDDING PURPOSES ONLY

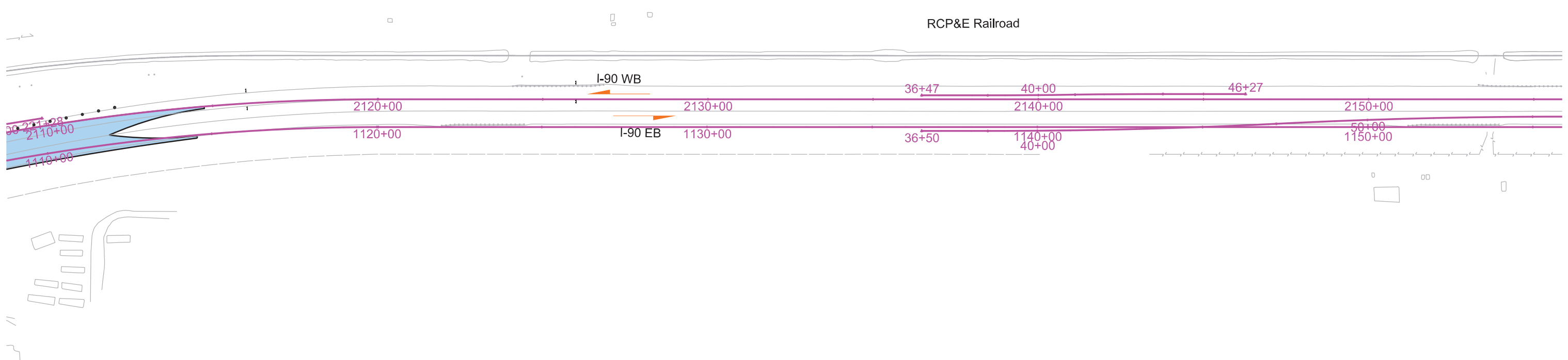
	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C36	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase B-04.dgn

# TRAFFIC CONTROL

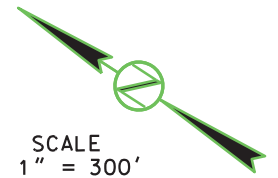
## I-90 MAINLINE - PHASE B

FOR BIDDING PURPOSES ONLY

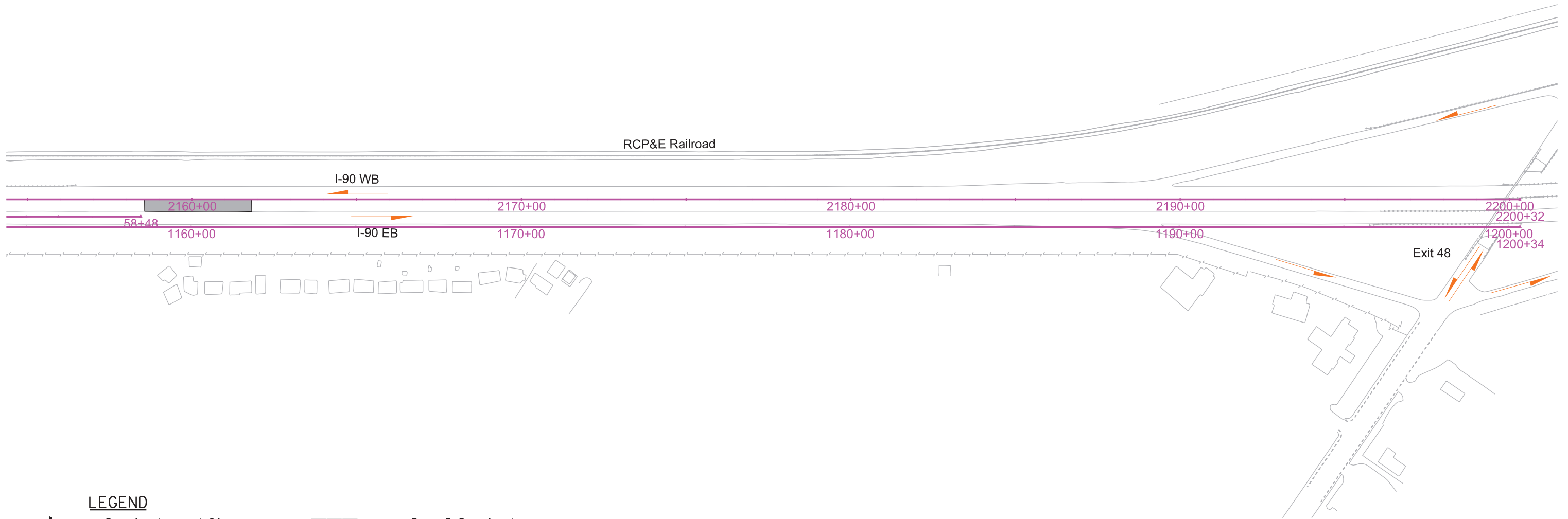
	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C37	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase B-05.dgn

Plot Scale - 1:2000

Plotted From - Marcus, Martinez

# DETOUR ROUTE

## I-90 EB - PHASE B2 (NIGHT WORK ONLY) EXIT 46 STRUCTURE REMOVAL

FOR BIDDING PURPOSES ONLY

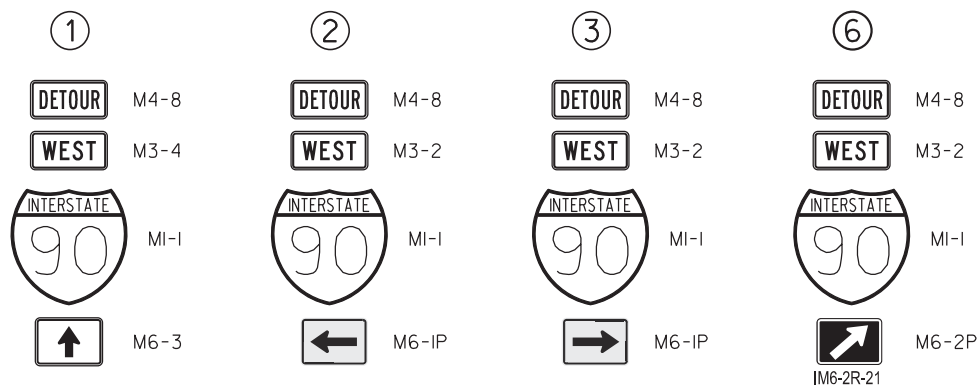
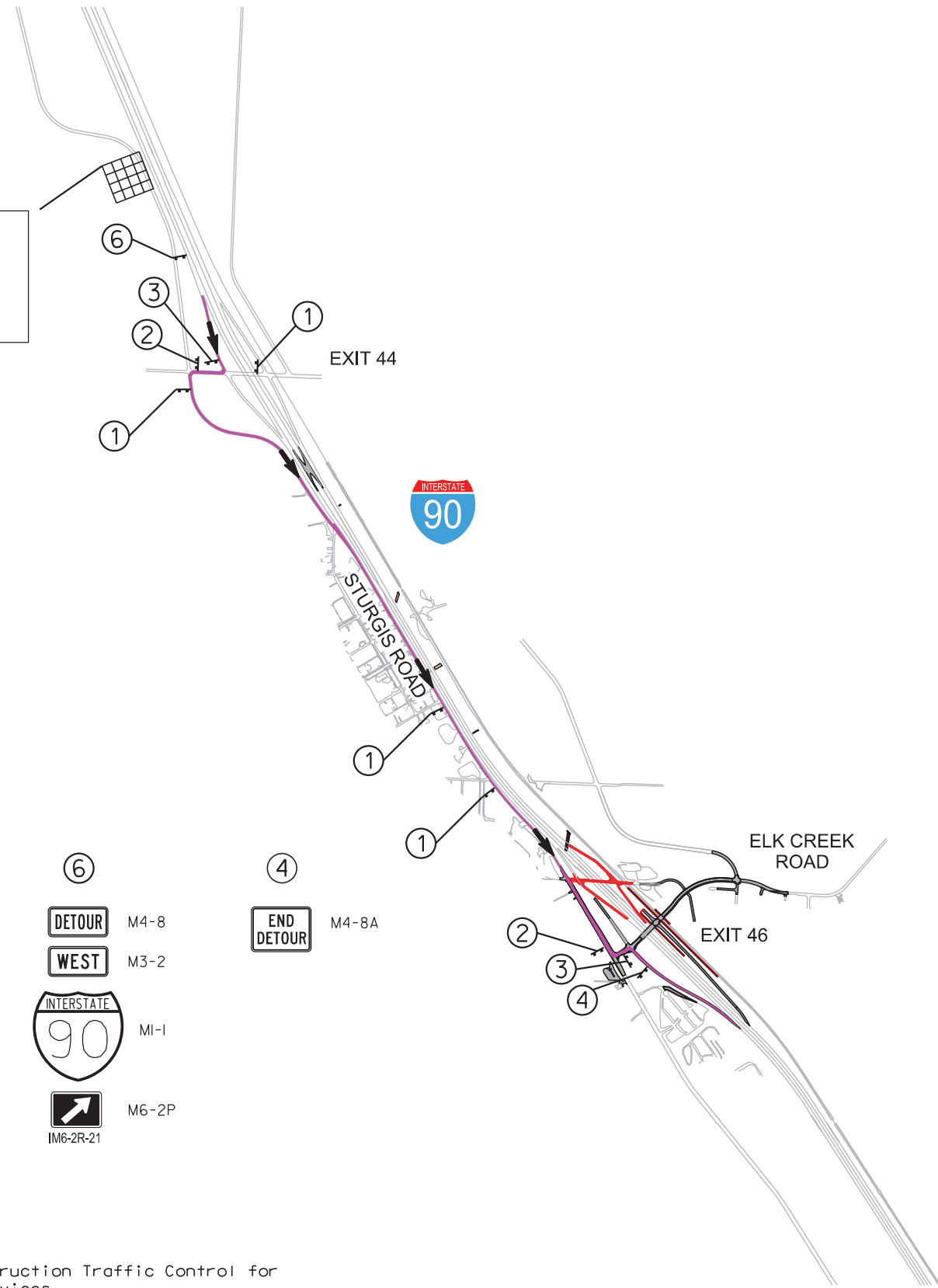
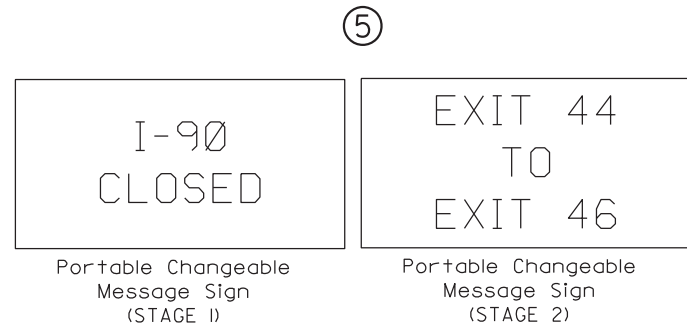


STATE OF SOUTH DAKOTA

PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	C38	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



Notes:

The Contractor will follow MUTCD Standard Construction Traffic Control for Ramp closures, including advance signing and devices.

Existing Signs that conflict with detour route will be masked.



File - ...Phase B Structure Removal (EB).sign

Plot Scale - 1:2000

Plotted From - Marcus, Martinez

# DETOUR ROUTE

## I-90 WB - PHASE B2 (NIGHT WORK ONLY) EXIT 46 STRUCTURE REMOVAL

FOR BIDDING PURPOSES ONLY

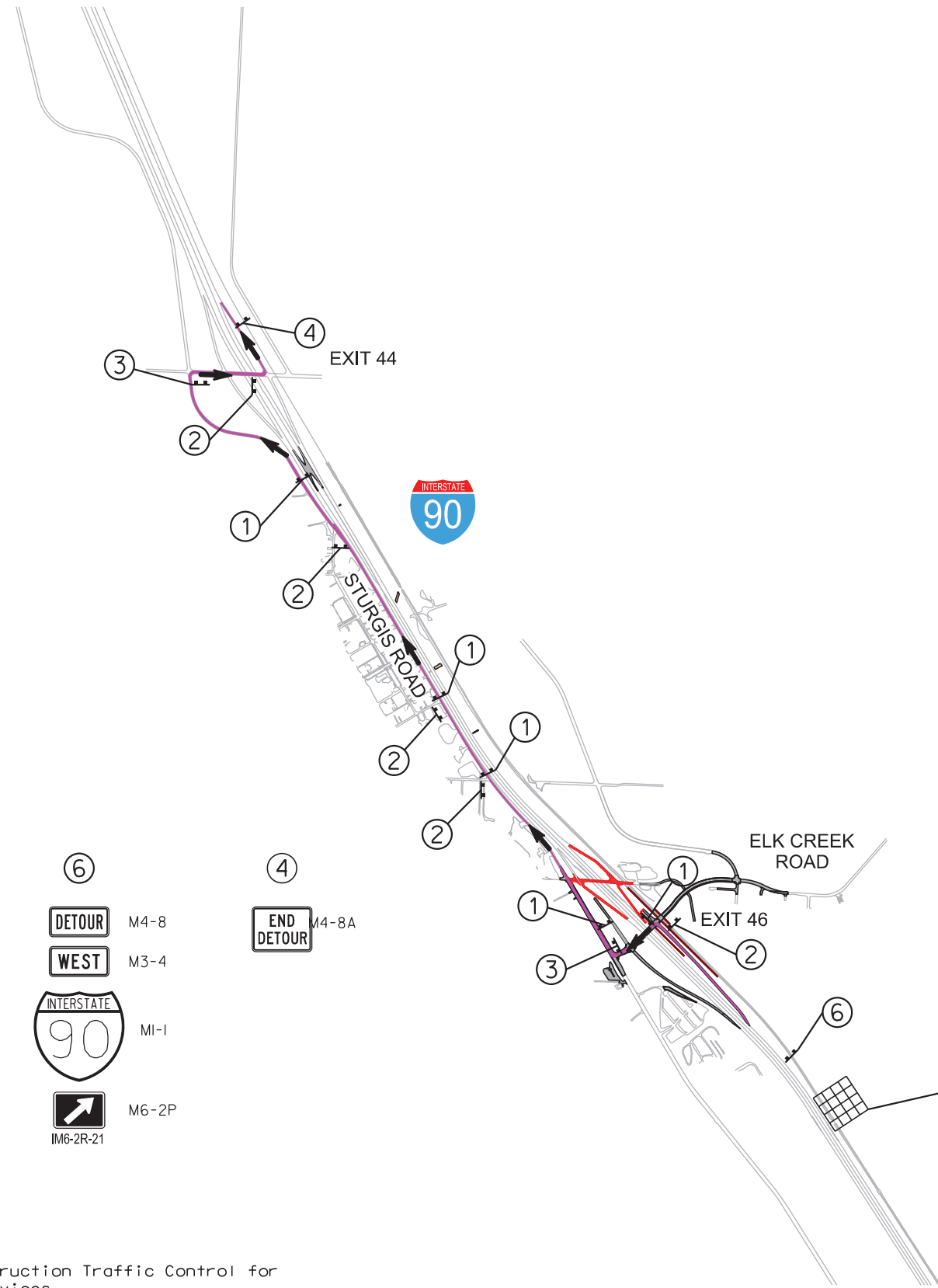


STATE OF SOUTH DAKOTA

PROJECT	IM-CR-EM 0901(187)44
SHEET	C39
TOTAL SHEETS	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



- ①
  - DETOUR M4-8
  - WEST M3-4
  - INTERSTATE 90 MI-1
  - ↑ M6-3
- ②
  - DETOUR M4-8
  - WEST M3-4
  - INTERSTATE 90 MI-1
  - ← M6-IP
- ③
  - DETOUR M4-8
  - WEST M3-4
  - INTERSTATE 90 MI-1
  - M6-IP
- ④
  - DETOUR M4-8
  - WEST M3-4
  - INTERSTATE 90 MI-1
  - ↗ IM6-2R-21 M6-2P
- ⑤
  - END DETOUR M4-8A

I-90  
CLOSED

Portable Changeable  
Message Sign  
(STAGE 1)

EXIT 46  
TO  
EXIT 44

Portable Changeable  
Message Sign  
(STAGE 2)

Notes:

The Contractor will follow MUTCD Standard Construction Traffic Control for Ramp closures, including advance signing and devices.

Existing Signs that conflict with detour route will be masked.



File - ...Phase B Structure Removal (WB).dgn

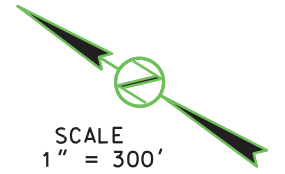
# TRAFFIC CONTROL

## I-90 MAINLINE - PHASE B2

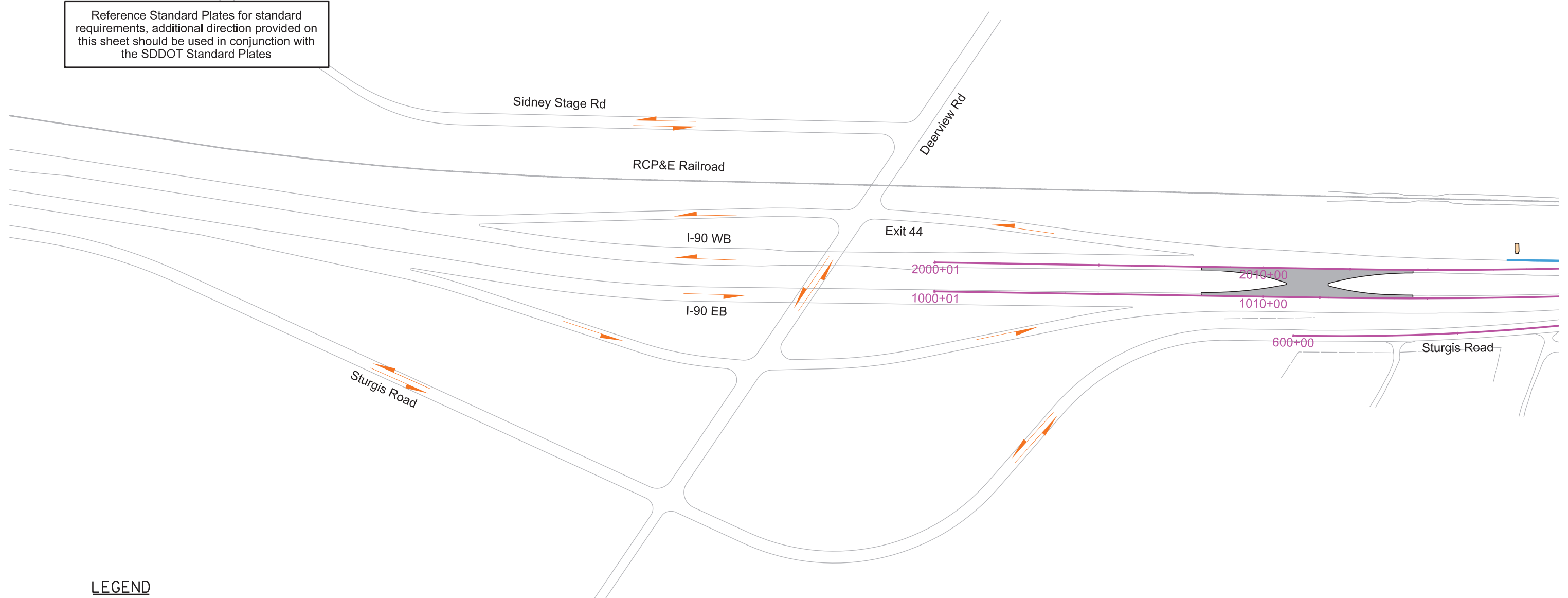
FOR BIDDING PURPOSES ONLY

	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C40	C85

Plotting Date: 4/8/2026  
 Rev: 2/14/2025 BRC  
 Rev: 9/30/2025 BRC  
 Rev: 3/6/2026 BRC



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300


Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase B2-01.dgn

# TRAFFIC CONTROL

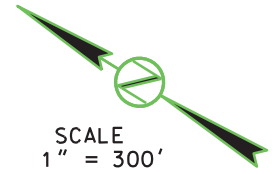
## I-90 MAINLINE - PHASE B2

FOR BIDDING PURPOSES ONLY

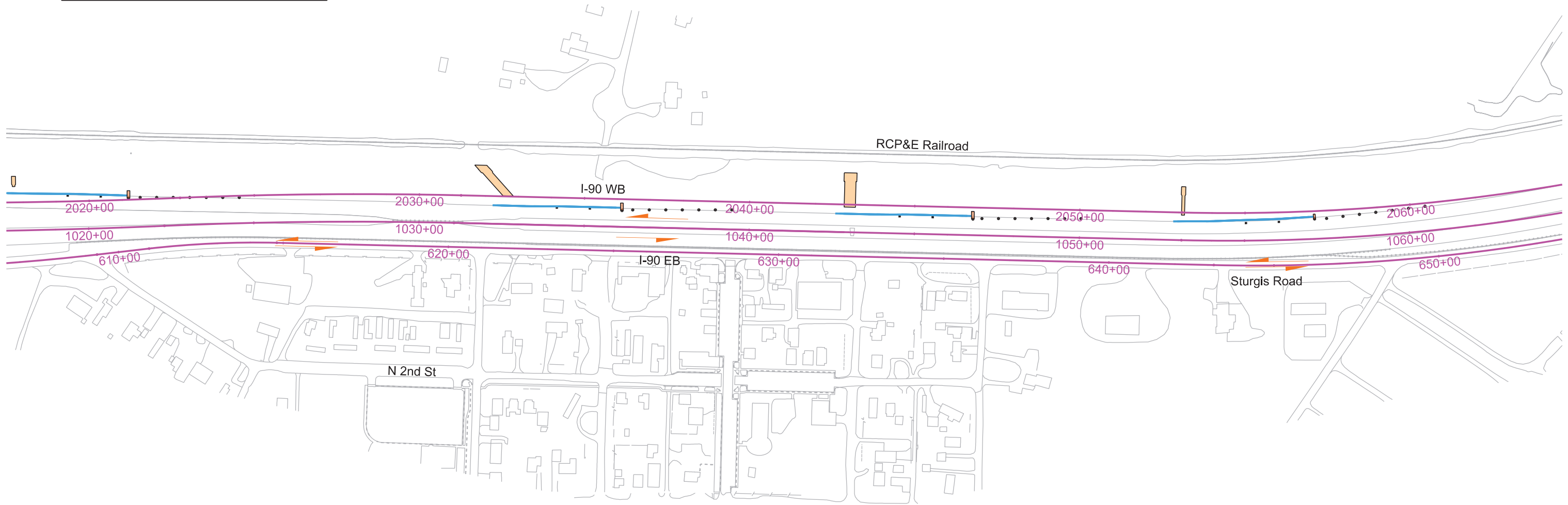
 STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM-CR-EM 0901(187)44	C41	C85

Plotting Date: 4/8/2026

















Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

- |                                                                                     |                      |                                                                                     |                                          |
|-------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase B2-02.dgn

# TRAFFIC CONTROL

## I-90 MAINLINE AND EXIT 46 INTERCHANGE - PHASE B2

FOR BIDDING PURPOSES ONLY



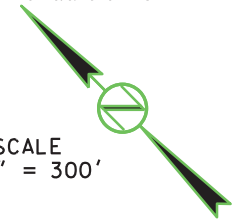
STATE OF SOUTH DAKOTA

PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	C42	C85

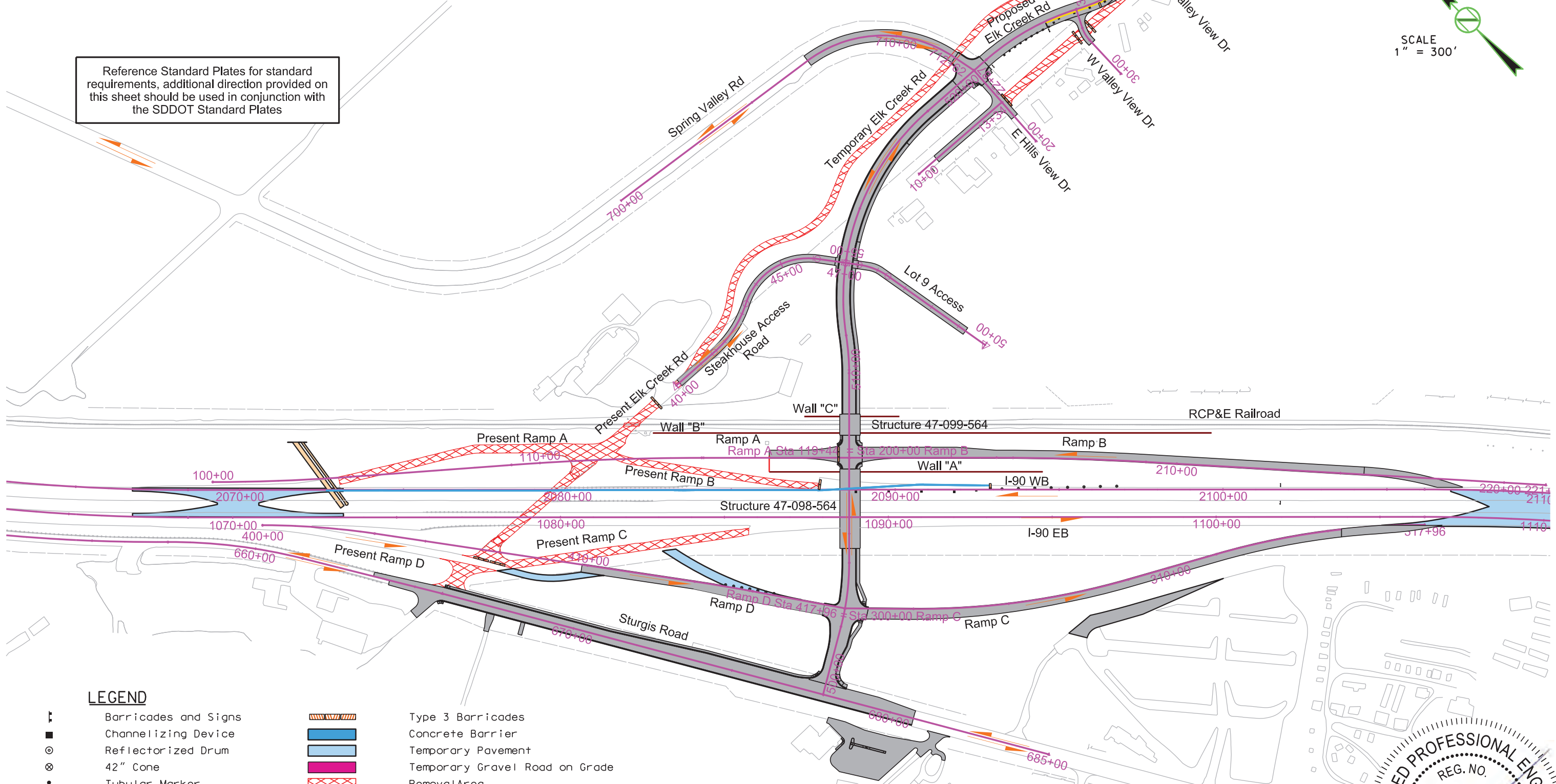
Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC

SCALE  
1" = 300'



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase B2-03.dgn

# TRAFFIC CONTROL

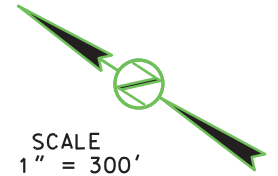
## I-90 MAINLINE - PHASE B2

FOR BIDDING PURPOSES ONLY

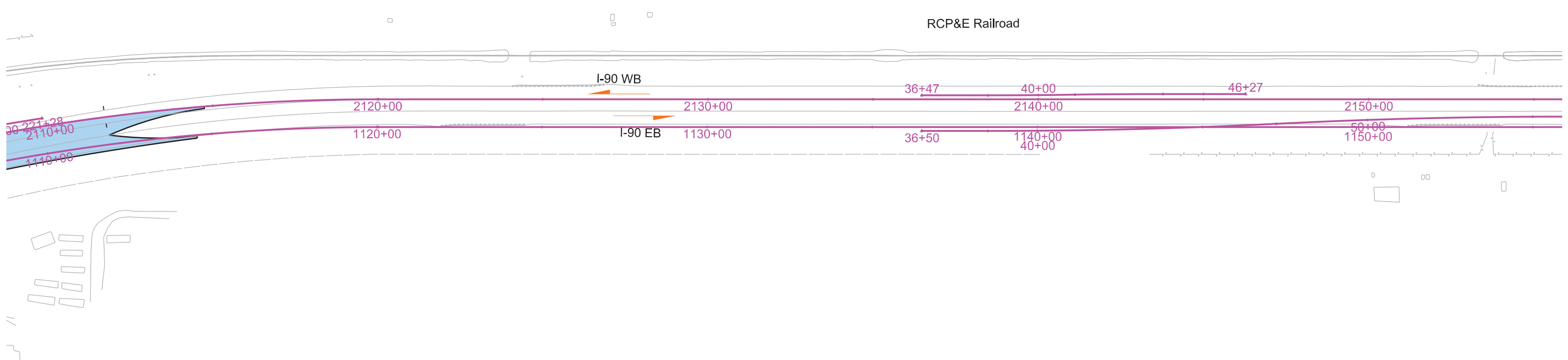
	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C43	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase B2-04.dgn

# TRAFFIC CONTROL

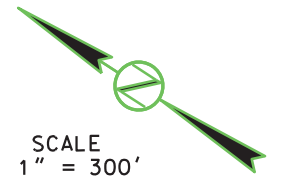
## I-90 MAINLINE - PHASE B2

FOR BIDDING PURPOSES ONLY

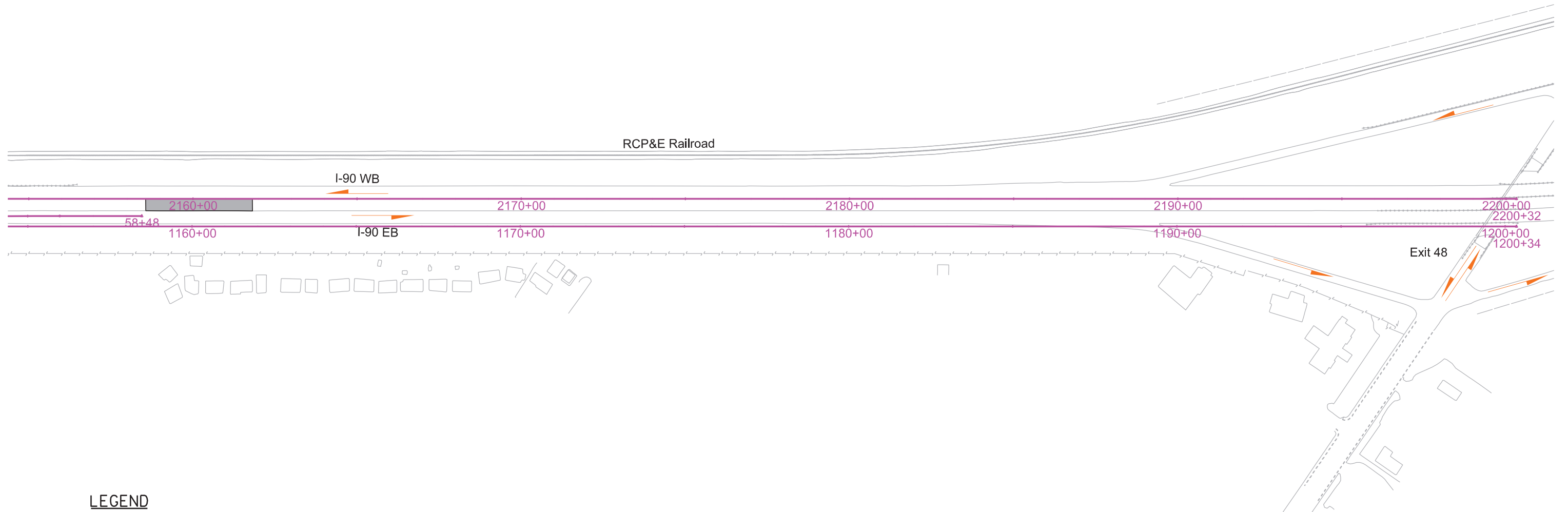
	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C44	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

	Barricades and Signs		Type 3 Barricades
	Channelizing Device		Concrete Barrier
	Reflectorized Drum		Temporary Pavement
	42" Cone		Temporary Gravel Road on Grade
	Tubular Marker		Removal Area
	Pavement Markings		Work Area
	Arrow Board		Work Area (Sub Phase)
	Traffic Flow		Completed Construction (in Prior Phases)

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase B2-05.dgn

Plot Scale - 1:2000

Plotted From - Marcus, Martinez

# DETOUR ROUTE

## I-90 WB - PHASE C

### EXIT 46 RAMP A COMPLETION

FOR BIDDING PURPOSES ONLY

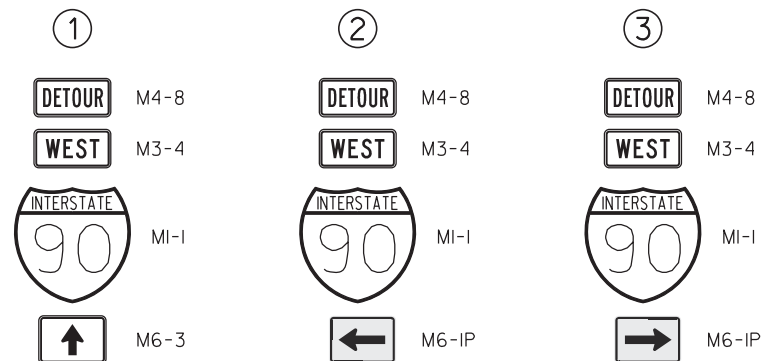


STATE OF SOUTH DAKOTA

PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	C45	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



Notes:

The Contractor will follow MUTCD Standard Construction Traffic Control for Ramp closures, including advance signing and devices.

Existing Signs that conflict with detour route will be masked.



File - ...Ramp A Detour (WB).dgn

# TRAFFIC CONTROL

## I-90 MAINLINE - PHASE C

FOR BIDDING PURPOSES ONLY

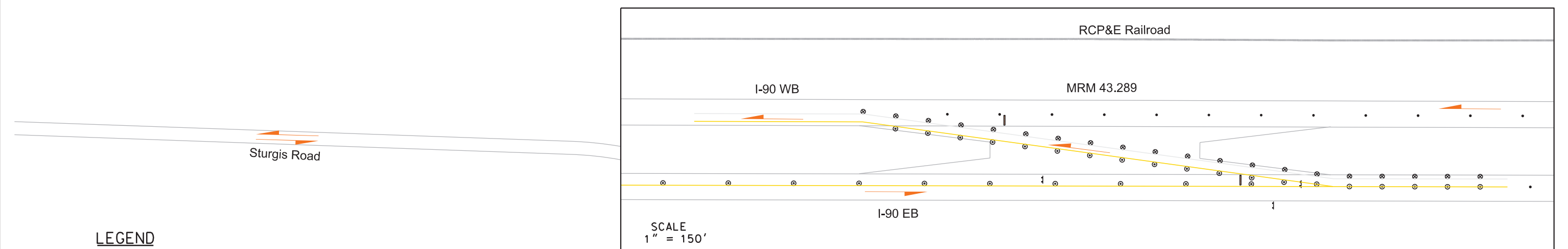
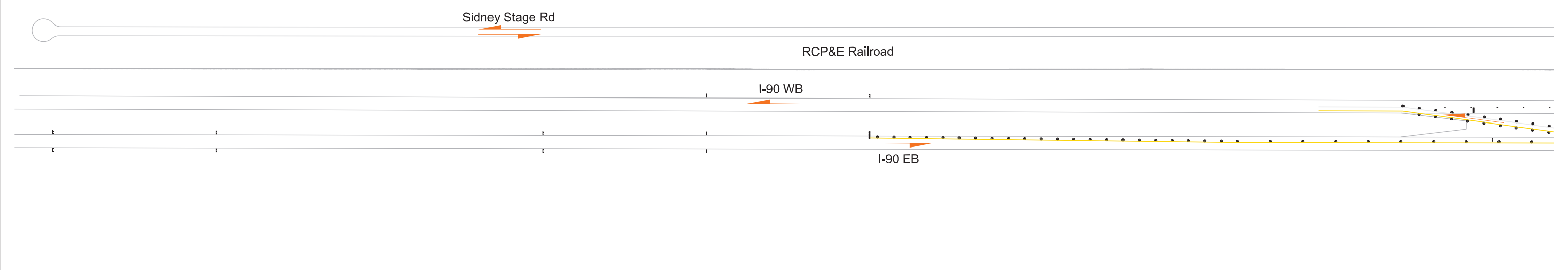
	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C46	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase C-01.dgn

# TRAFFIC CONTROL

## I-90 MAINLINE - PHASE C

FOR BIDDING PURPOSES ONLY



STATE OF SOUTH DAKOTA

PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	C47	C85

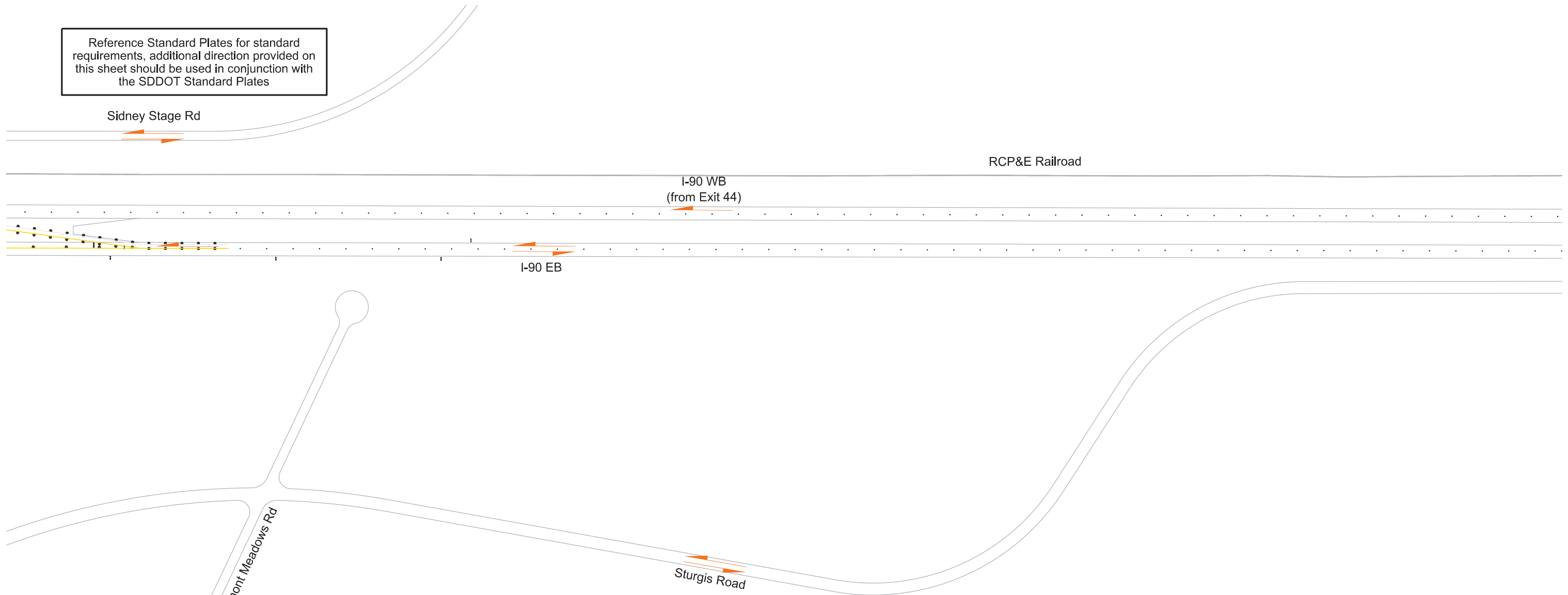
Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



SCALE  
1" = 300'

Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase C-02.dgn

# TRAFFIC CONTROL

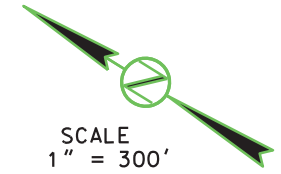
## I-90 MAINLINE - PHASE C

FOR BIDDING PURPOSES ONLY

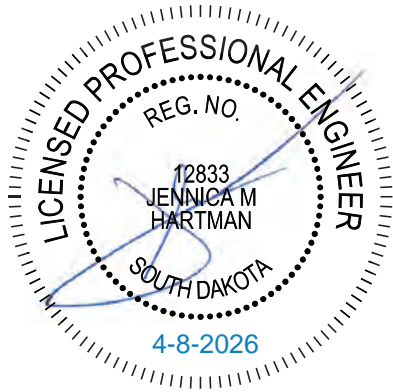
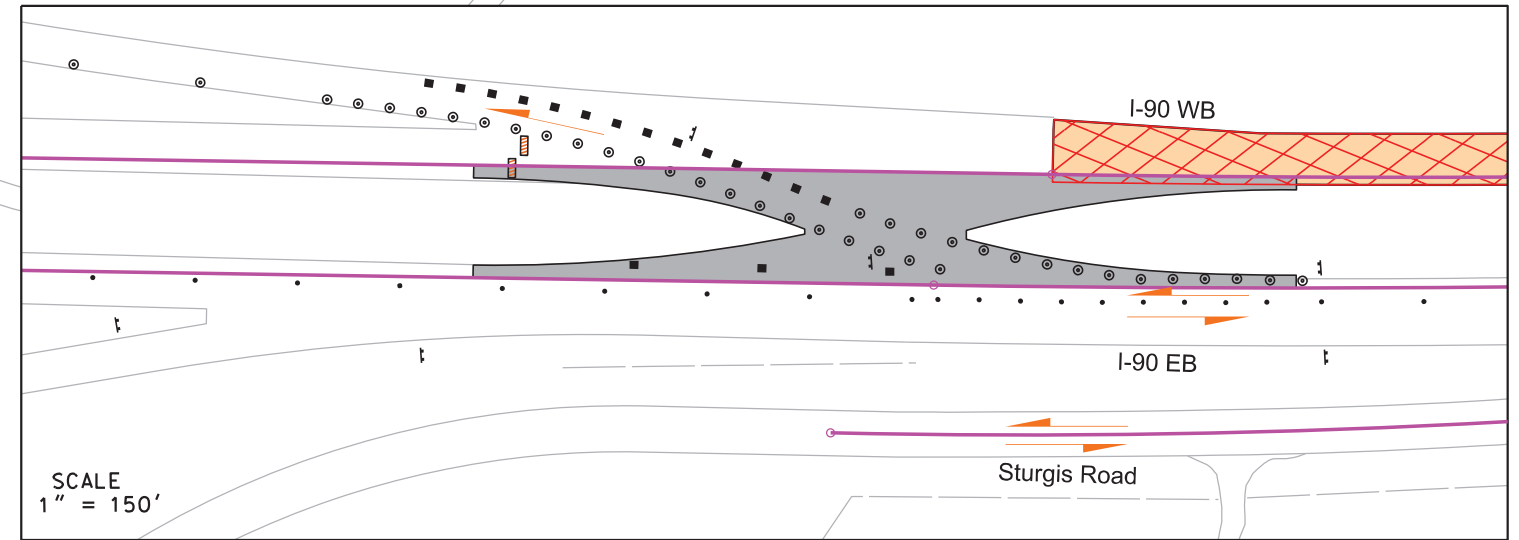
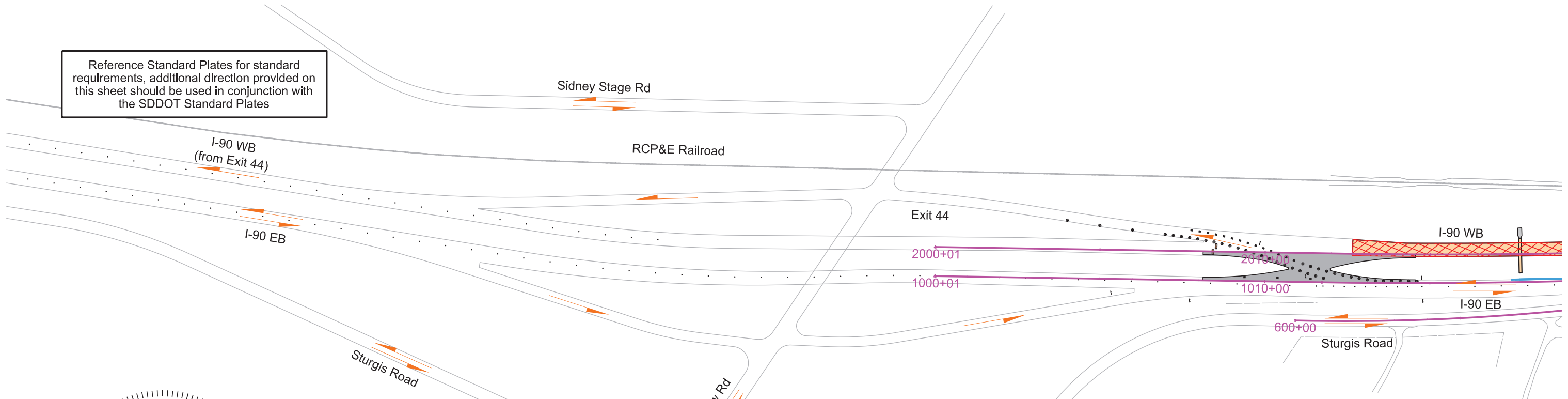
	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C48	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.

Plot Scale - 1:300


Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase C-03.dgn

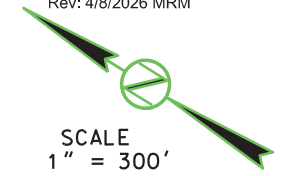
# TRAFFIC CONTROL

## I-90 MAINLINE - PHASE C

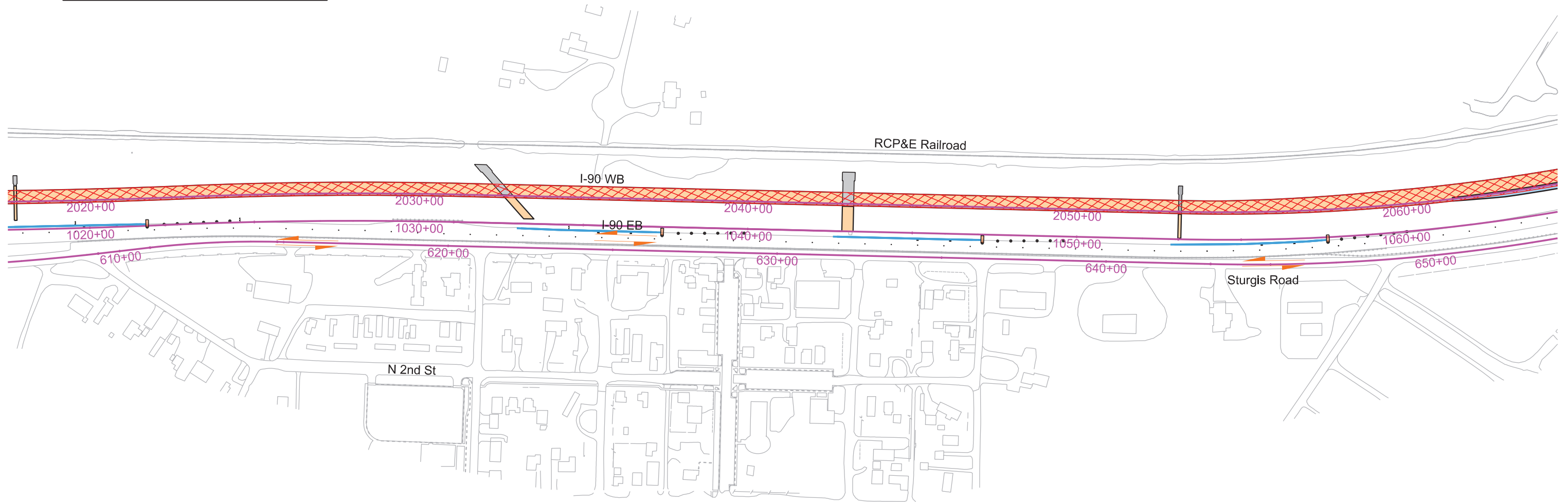
FOR BIDDING PURPOSES ONLY

 STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM-CR-EM 0901(187)44	C49	C85

















Plotting Date: 4/8/2026  
 Rev: 2/14/2025 BRC  
 Rev: 9/30/2025 BRC  
 Rev: 3/6/2026 BRC  
 Rev: 4/8/2026 MRM



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

- |                                                                                     |                      |                                                                                     |                                          |
|-------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

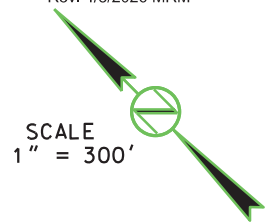
Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase C-04.dgn

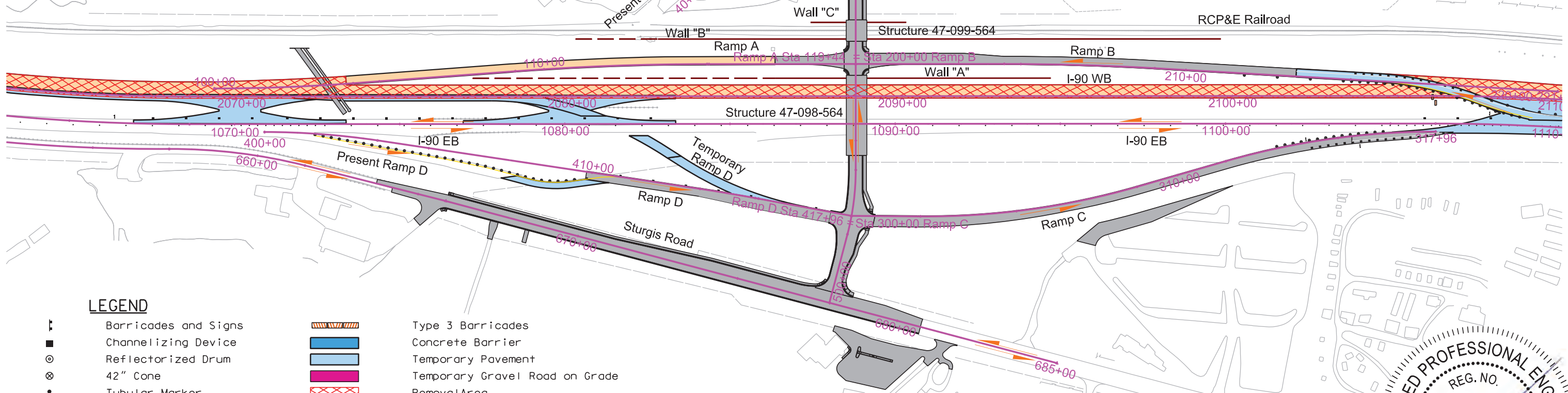
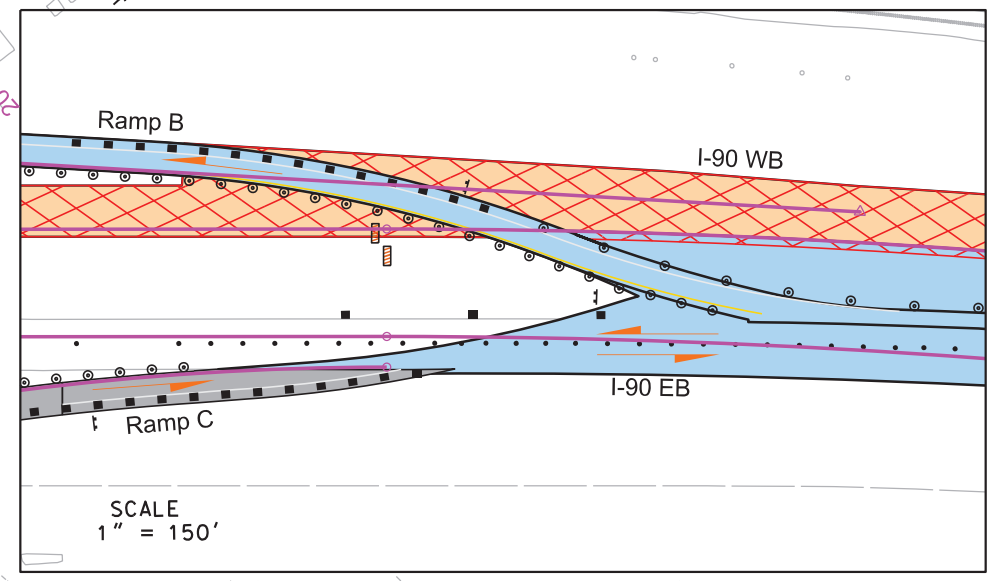
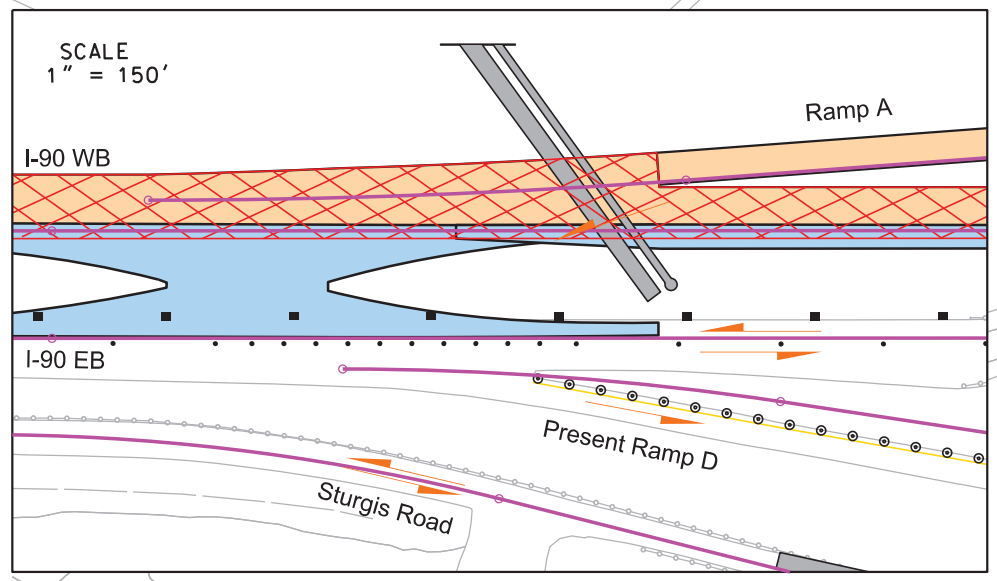
# TRAFFIC CONTROL FOR BIDDING PURPOSES ONLY

## I-90 MAINLINE AND EXIT 46 INTERCHANGE - PHASE C

Plotting Date: 4/8/2026  
 Rev: 2/14/2025 BRC  
 Rev: 9/30/2025 BRC  
 Rev: 3/6/2026 BRC  
 Rev: 4/8/2026 MRM



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase C-05.dgn

# TRAFFIC CONTROL

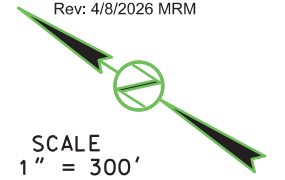
## I-90 MAINLINE - PHASE C

FOR BIDDING PURPOSES ONLY

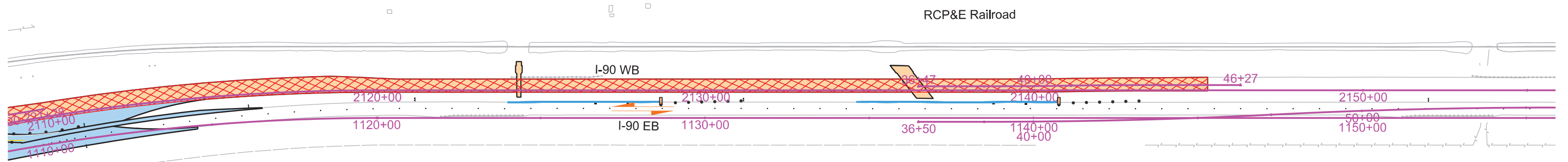
	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C51	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
 Rev: 9/30/2025 BRC  
 Rev: 3/6/2026 BRC  
 Rev: 4/8/2026 MRM



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase C-06.dgn

# TRAFFIC CONTROL

## I-90 MAINLINE - PHASE C

FOR BIDDING PURPOSES ONLY

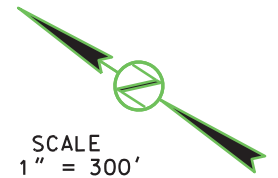


STATE OF SOUTH DAKOTA

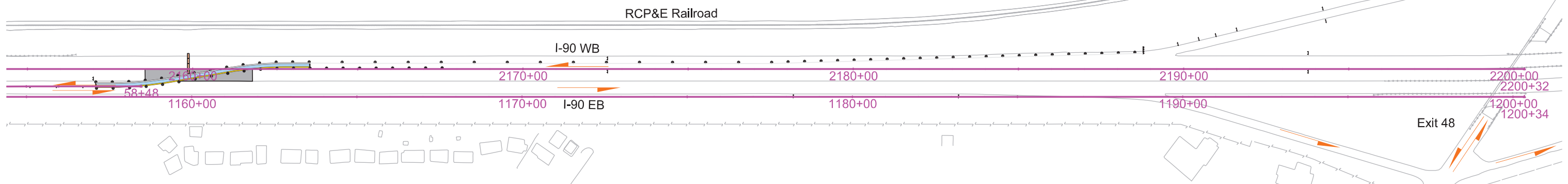
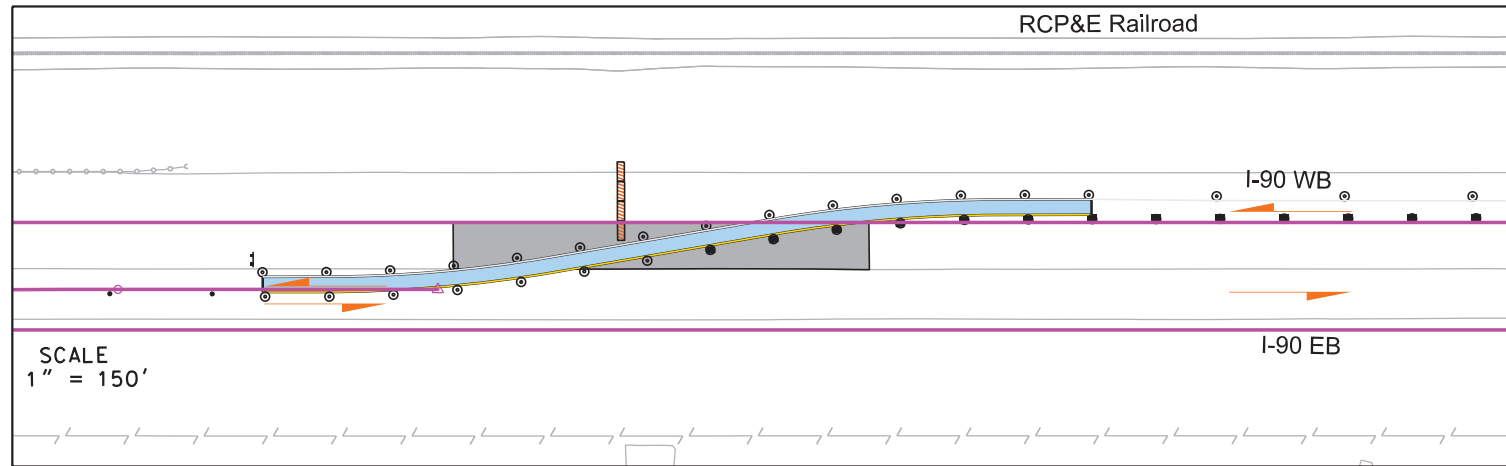
PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	C52	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



Plot Scale - 1:300



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates

### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.




Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase C-07.dgn

# TRAFFIC CONTROL

## I-90 MAINLINE - PHASE D

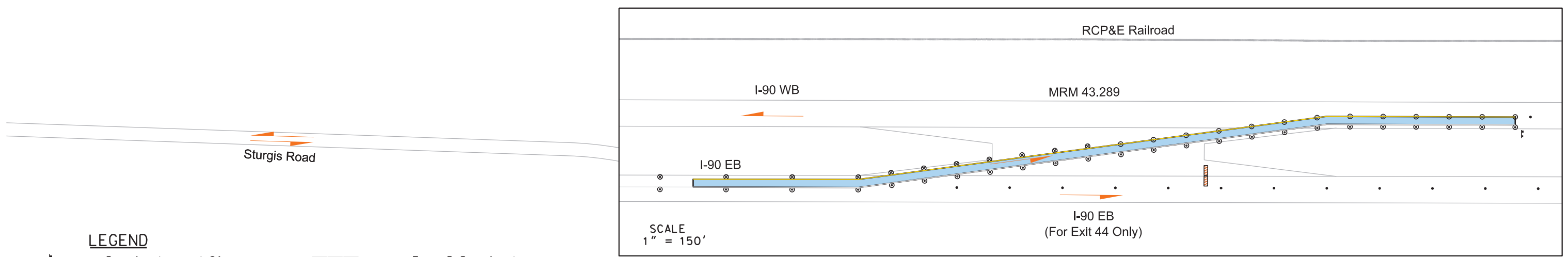
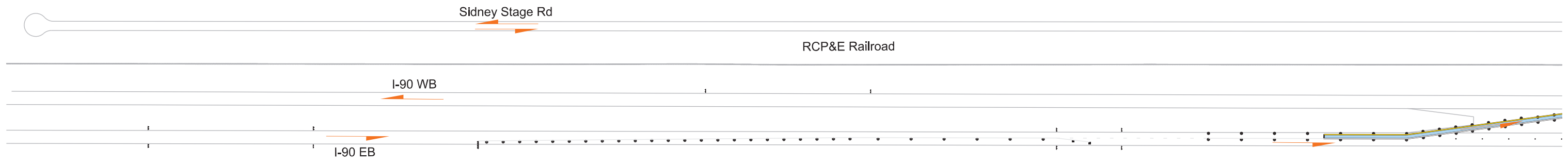
FOR BIDDING PURPOSES ONLY

 STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM-CR-EM 0901(187)44	C53	C85

















Plotting Date: 4/8/2026  
 Rev: 2/14/2025 BRC  
 Rev: 9/30/2025 BRC  
 Rev: 3/6/2026 BRC



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

- |                                                                                     |                      |                                                                                     |                                          |
|-------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300


Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase D-01.dgn

# TRAFFIC CONTROL

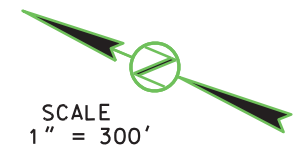
## I-90 MAINLINE - PHASE D

FOR BIDDING PURPOSES ONLY

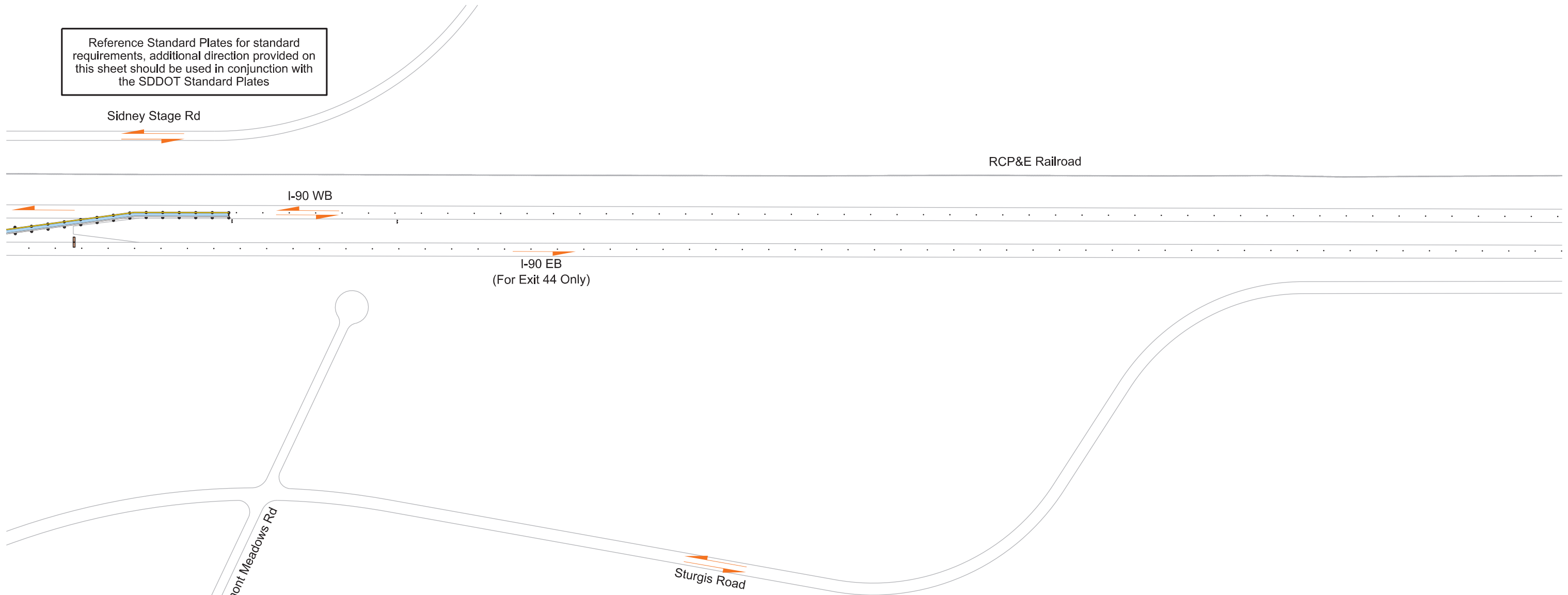
 STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM-CR-EM 0901(187)44	C54	C85

Plotting Date: 4/8/2026

















Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

- |                                                                                     |                      |                                                                                     |                                          |
|-------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase D-02.dgn

# TRAFFIC CONTROL

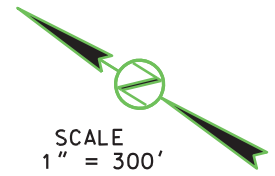
## I-90 MAINLINE - PHASE D

FOR BIDDING PURPOSES ONLY

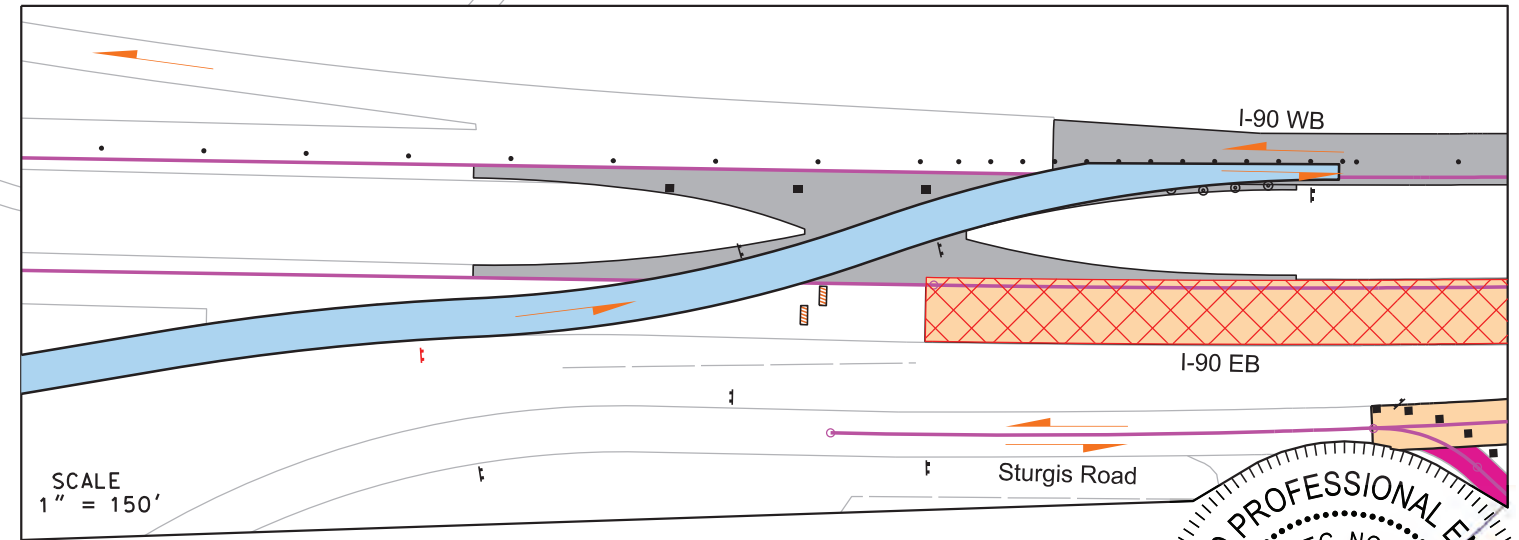
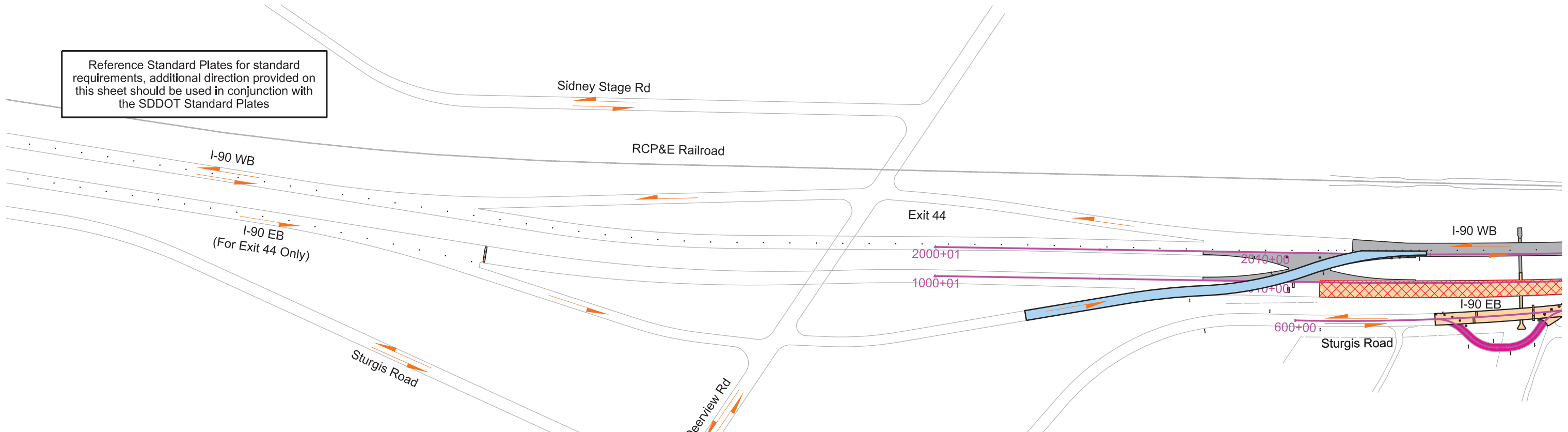
	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C55	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

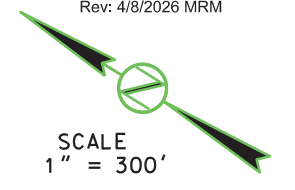
File - ...Const\_Seq\_Phase D-03.dgn

# TRAFFIC CONTROL

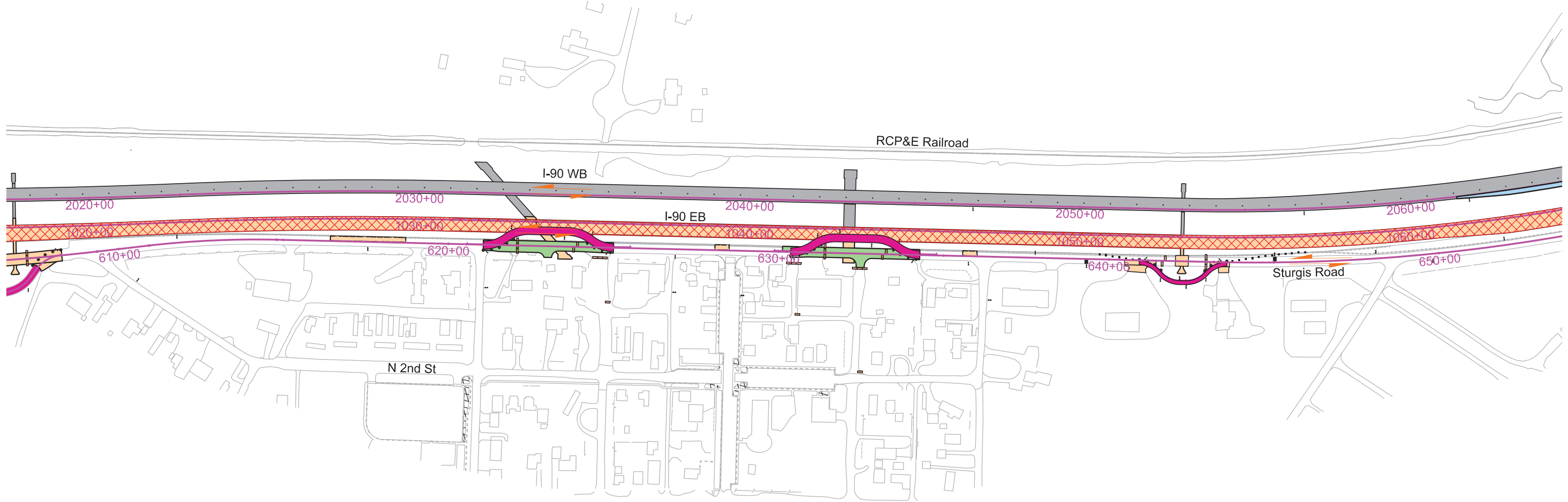
## I-90 MAINLINE AND STURGIS ROAD - PHASE D

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM-CR-EM 0901(187)44	C56	C85
Plotting Date: 4/8/2026		Rev: 2/14/2025 BRC Rev: 9/30/2025 BRC Rev: 3/6/2026 BRC Rev: 4/8/2026 MRM	



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

- |                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li> Barricades and Signs</li> <li> Channelizing Device</li> <li> Reflectorized Drum</li> <li> 42" Cone</li> <li> Tubular Marker</li> <li> Pavement Markings</li> <li> Arrow Board</li> <li> Traffic Flow</li> </ul> | <ul style="list-style-type: none"> <li> Type 3 Barricades</li> <li> Concrete Barrier</li> <li> Temporary Pavement</li> <li> Temporary Gravel Road on Grade</li> <li> Removal Area</li> <li> Work Area</li> <li> Work Area (Sub Phase)</li> <li> Completed Construction (in Prior Phases)</li> </ul> | <ul style="list-style-type: none"> <li>Type 3 Barricades</li> <li>Concrete Barrier</li> <li>Temporary Pavement</li> <li>Temporary Gravel Road on Grade</li> <li>Removal Area</li> <li>Work Area</li> <li>Work Area (Sub Phase)</li> <li>Completed Construction (in Prior Phases)</li> </ul> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase D-04.dgn

# TRAFFIC CONTROL FOR BIDDING PURPOSES ONLY

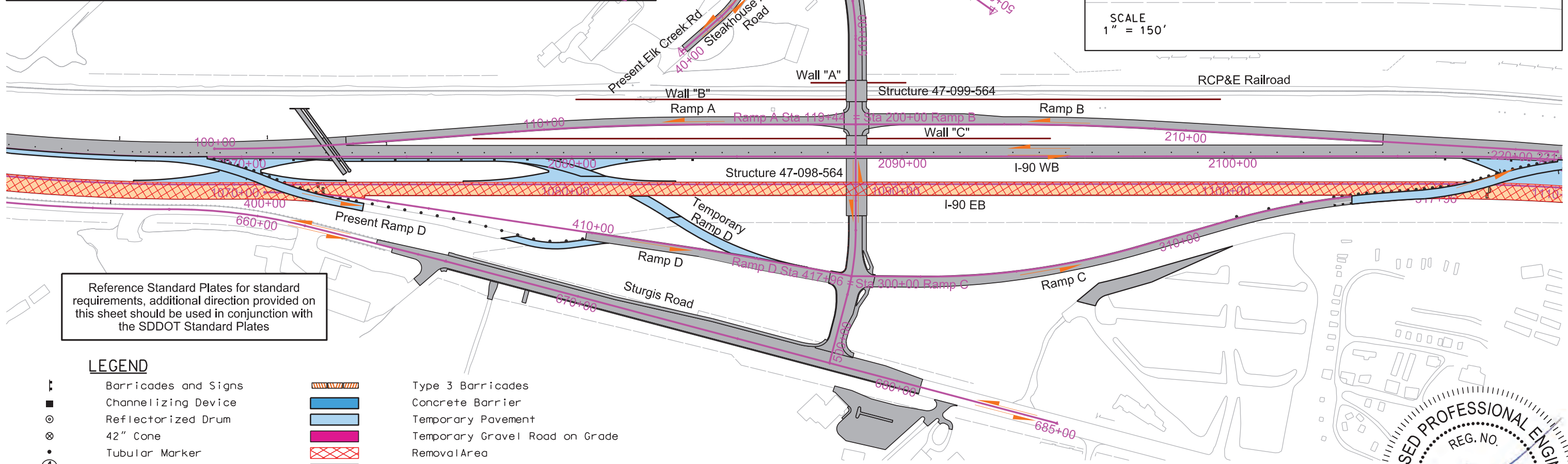
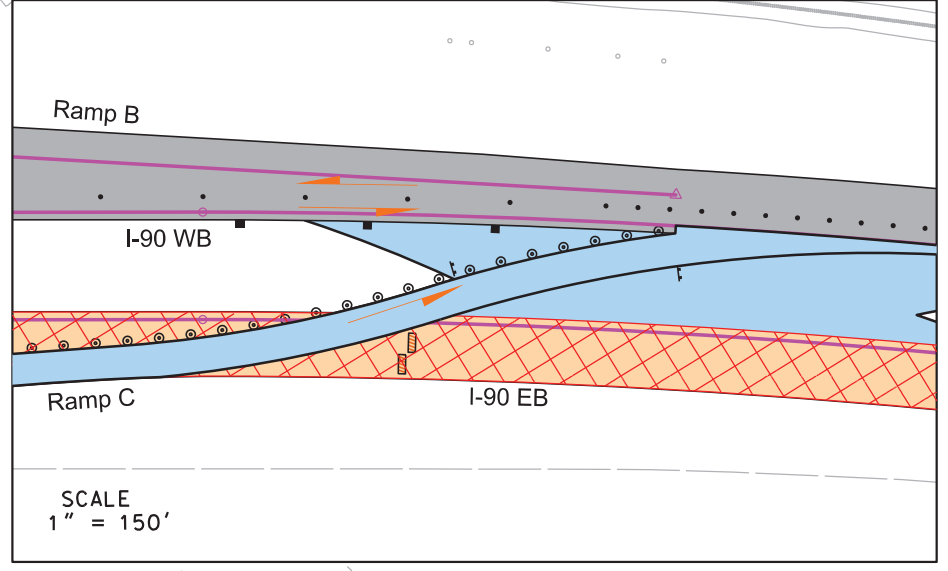
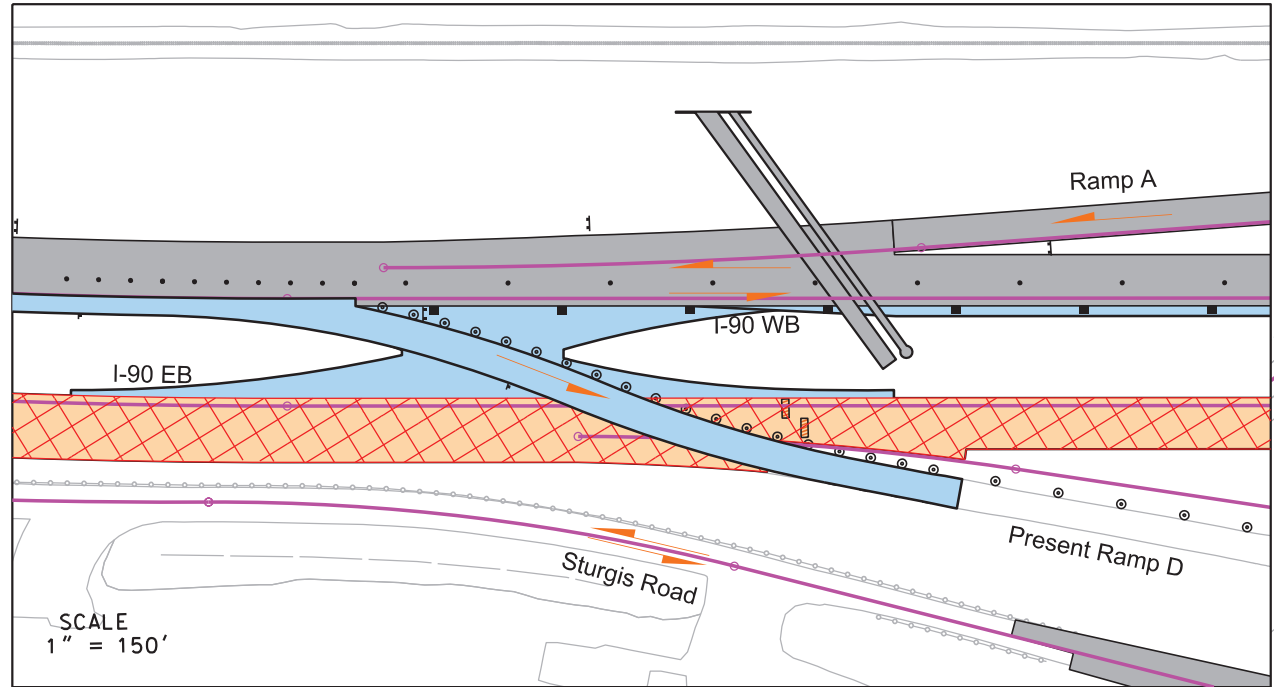
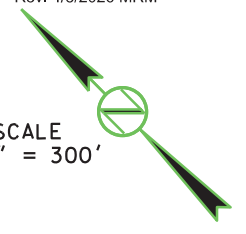
## I-90 MAINLINE AND EXIT 46 INTERCHANGE - PHASE D1

	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C57	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
 Rev: 9/30/2025 BRC  
 Rev: 3/6/2026 BRC  
 Rev: 4/8/2026 MRM

SCALE  
1" = 300'



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates

### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase D-05-D1.dgn

# TRAFFIC CONTROL

## I-90 MAINLINE AND EXIT 46 INTERCHANGE - PHASE D2

FOR BIDDING PURPOSES ONLY



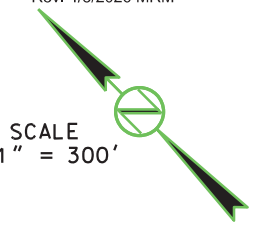
STATE OF SOUTH DAKOTA

PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	C58	C85

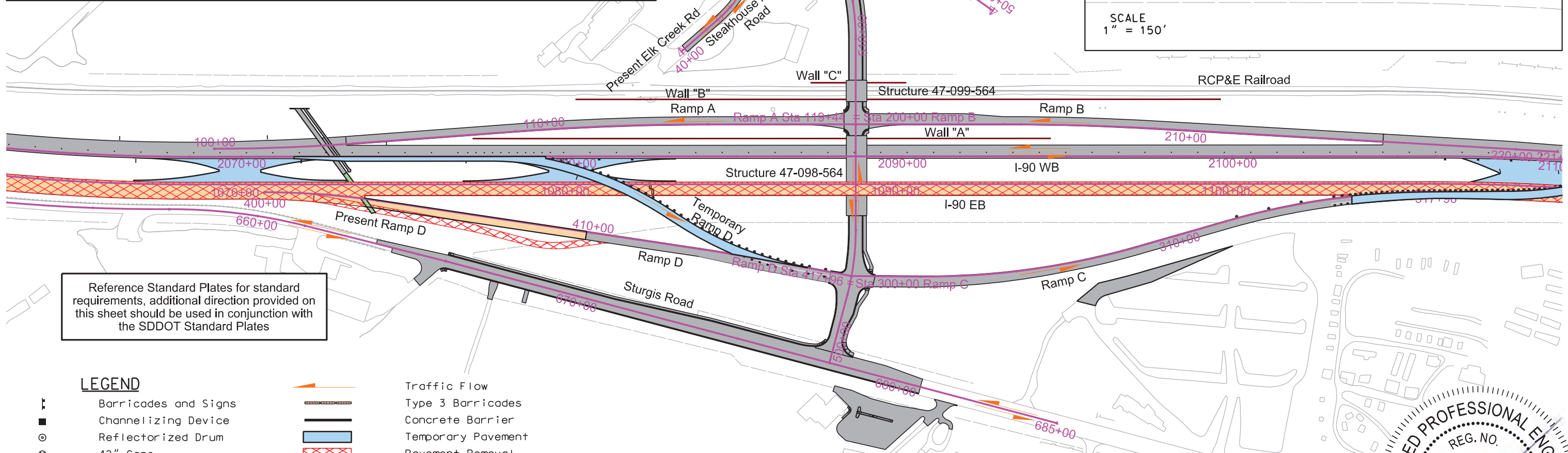
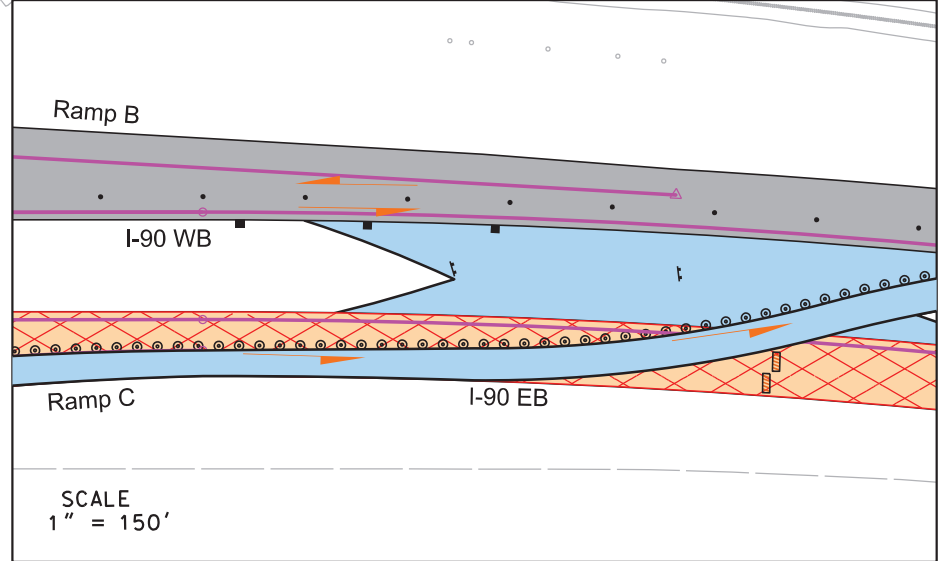
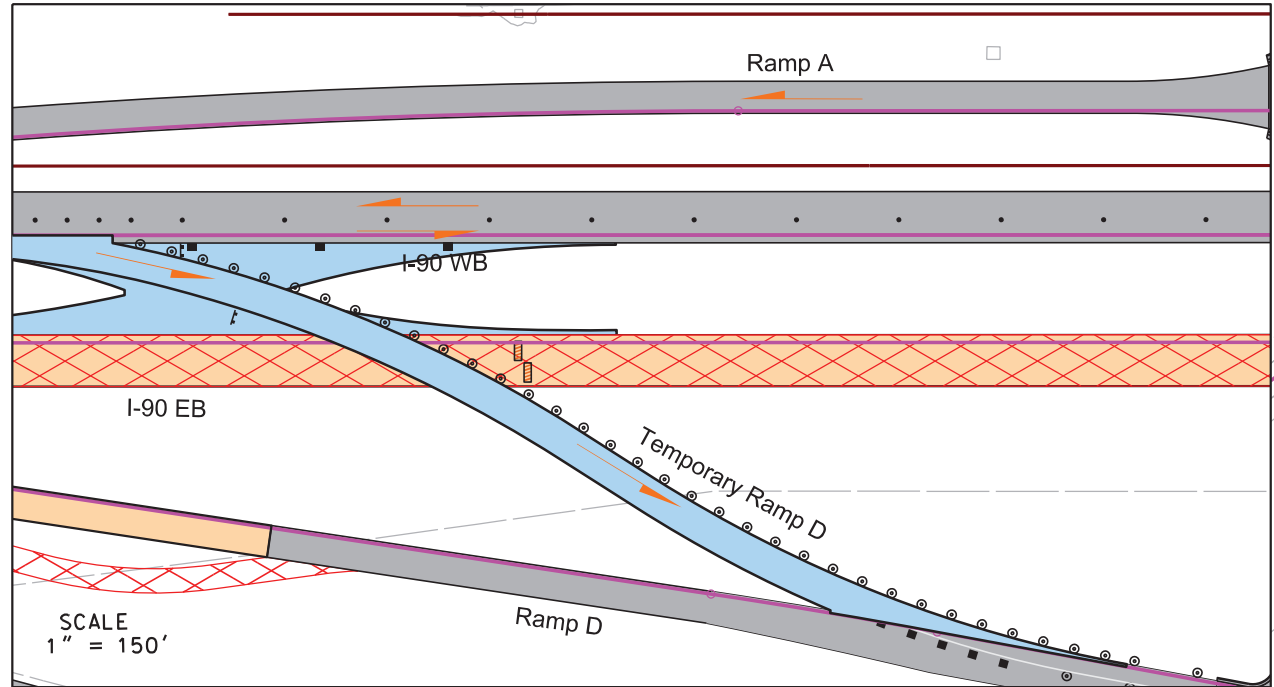
Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
 Rev: 9/30/2025 BRC  
 Rev: 3/6/2026 BRC  
 Rev: 4/8/2026 MRM

SCALE  
1" = 300'



Plot Scale - 1:300



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates

### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Traffic Flow                             |
|  | Channelizing Device  |  | Type 3 Barricades                        |
|  | Reflectorized Drum   |  | Concrete Barrier                         |
|  | 42" Cone             |  | Temporary Pavement                       |
|  | Tubular Marker       |  | Pavement Removal                         |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  |                      |  | Completed Construction (in Prior Phases) |

Transitions and tapers will utilize tabs and barrels.  
 For sign spacing, barrel spacing, and taper lengths refer to standard plates.



Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase D-05-D2.dgn

# TRAFFIC CONTROL

## I-90 MAINLINE AND EXIT 46 INTERCHANGE - PHASE D3

FOR BIDDING PURPOSES ONLY



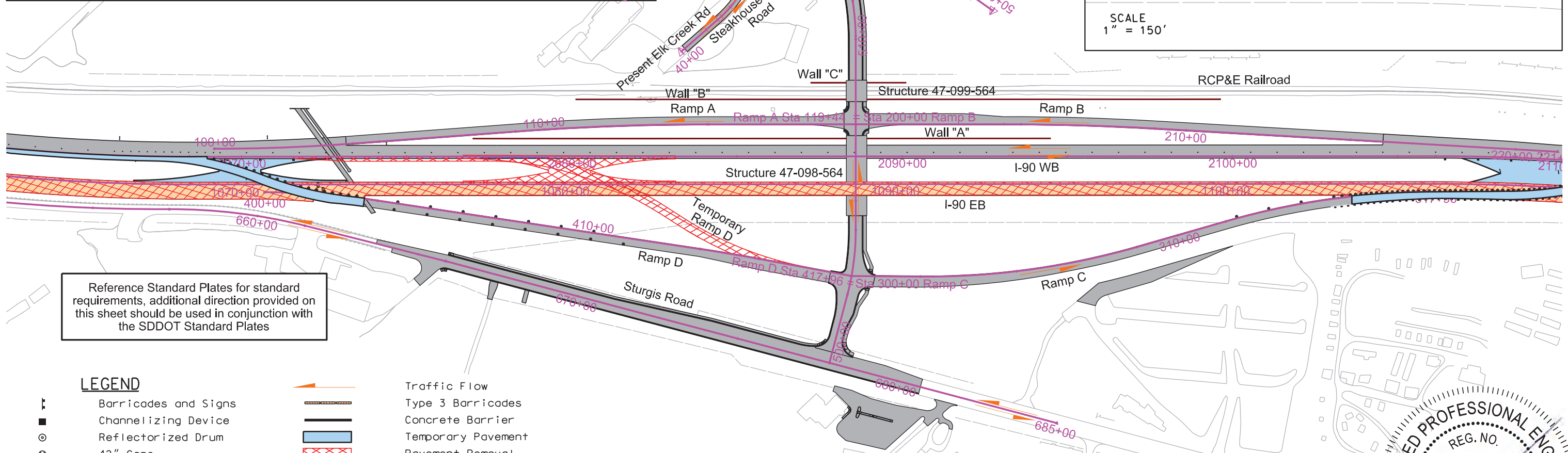
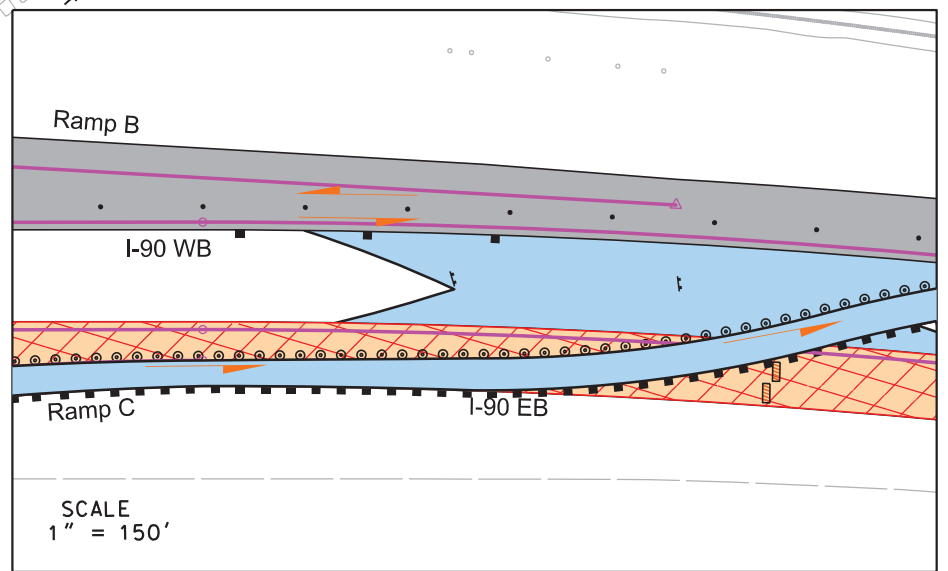
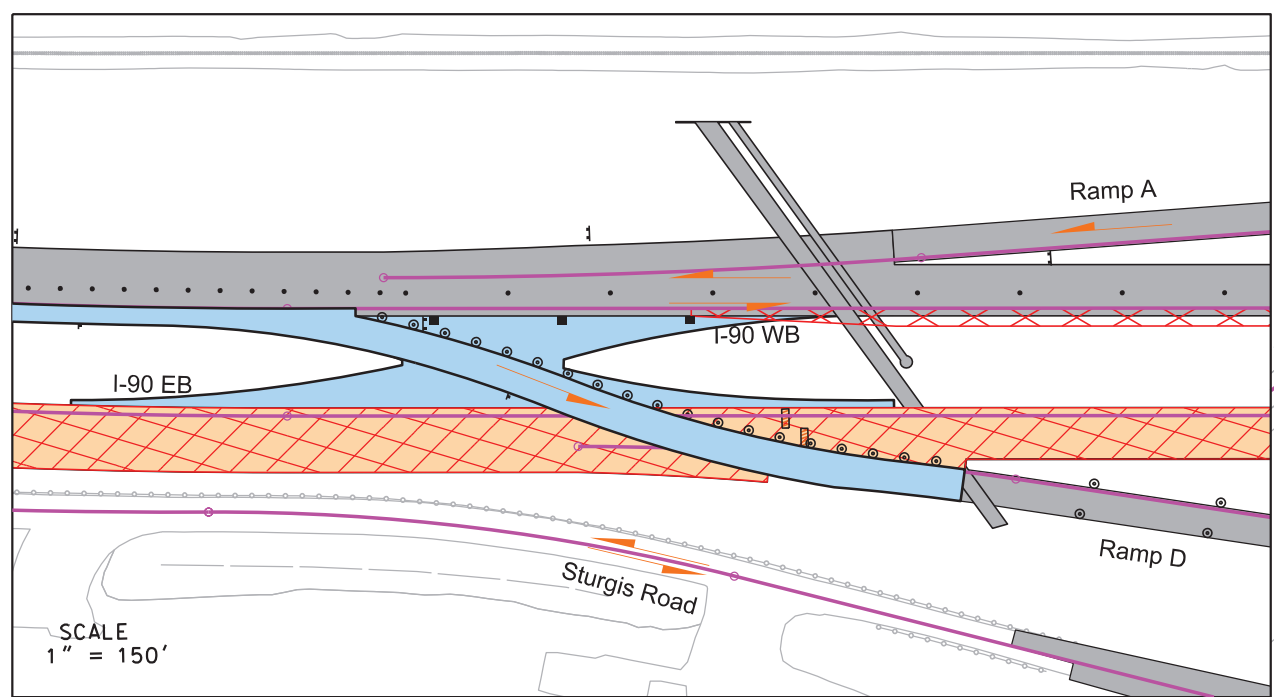
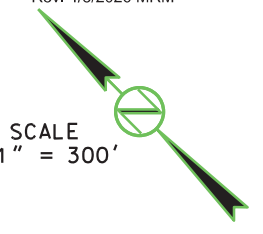
STATE OF SOUTH DAKOTA

PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	C59	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
 Rev: 9/30/2025 BRC  
 Rev: 3/6/2026 BRC  
 Rev: 4/8/2026 MRM

SCALE  
1" = 300'



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates

### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Traffic Flow                             |
|  | Channelizing Device  |  | Type 3 Barricades                        |
|  | Reflectorized Drum   |  | Concrete Barrier                         |
|  | 42" Cone             |  | Temporary Pavement                       |
|  | Tubular Marker       |  | Pavement Removal                         |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  |                      |  | Completed Construction (in Prior Phases) |

Transitions and tapers will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase D-05-D3.dgn

# TRAFFIC CONTROL

## I-90 MAINLINE AND EXIT 46 INTERCHANGE - PHASE D4

FOR BIDDING PURPOSES ONLY



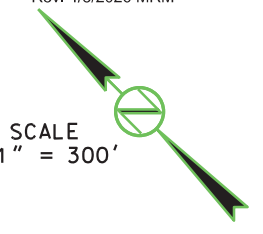
STATE OF SOUTH DAKOTA

PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	C60	C85

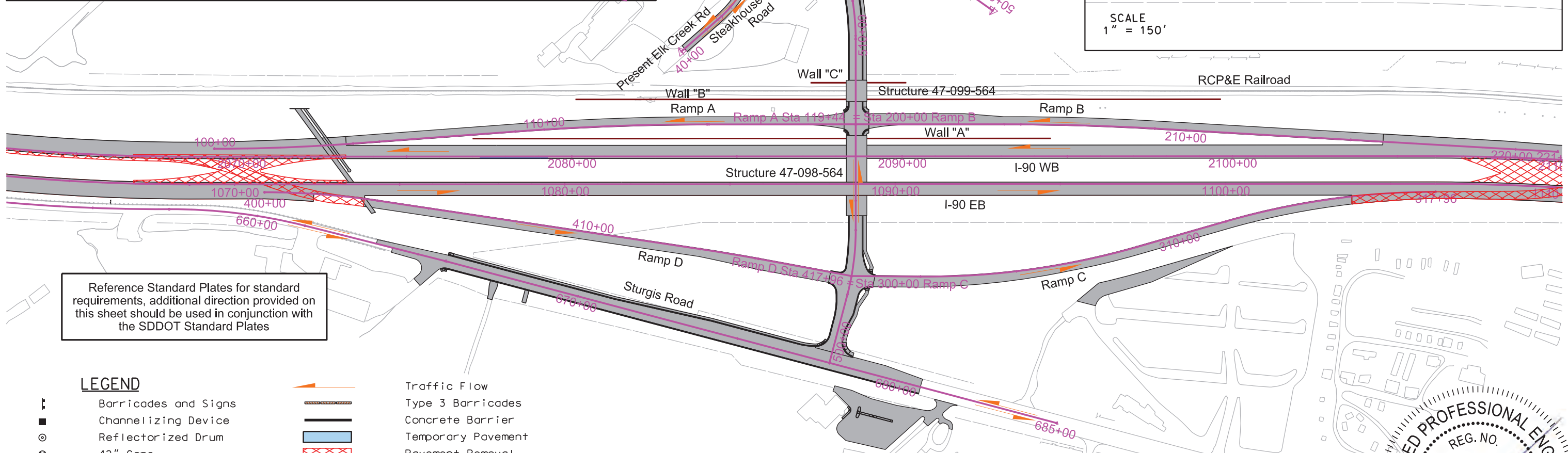
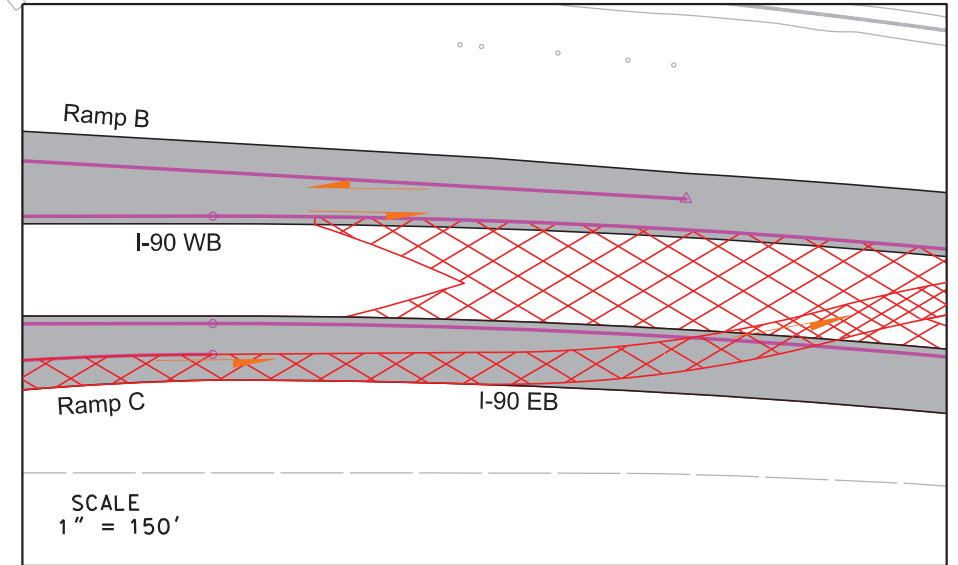
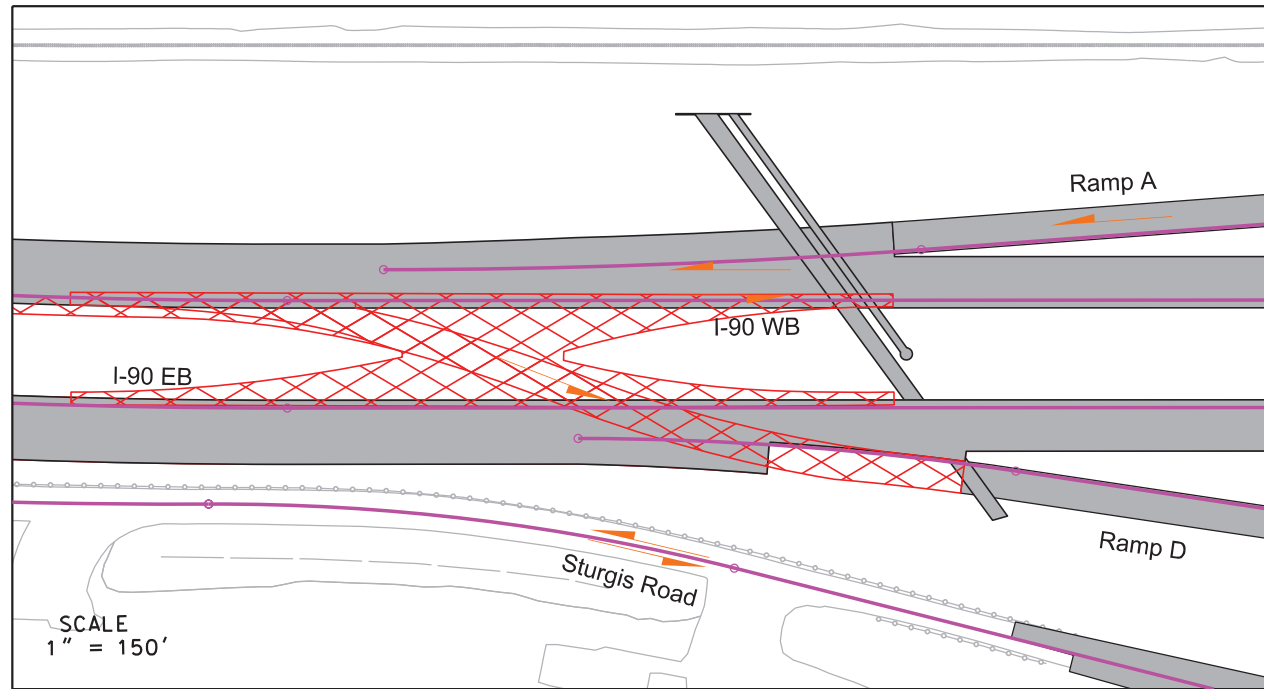
Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
 Rev: 9/30/2025 BRC  
 Rev: 3/6/2026 BRC  
 Rev: 4/8/2026 MRM

SCALE  
1" = 300'



Plot Scale - 1:300



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates

### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Traffic Flow                             |
|  | Channelizing Device  |  | Type 3 Barricades                        |
|  | Reflectorized Drum   |  | Concrete Barrier                         |
|  | 42" Cone             |  | Temporary Pavement                       |
|  | Tubular Marker       |  | Pavement Removal                         |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  |                      |  | Completed Construction (in Prior Phases) |

Transitions and tapers will utilize tabs and barrels.  
 For sign spacing, barrel spacing, and taper lengths refer to standard plates.



Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase D-05-D4.dgn

# TRAFFIC CONTROL

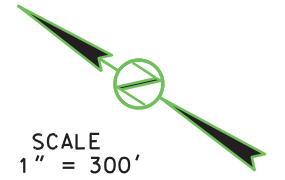
## I-90 MAINLINE - PHASE D

FOR BIDDING PURPOSES ONLY

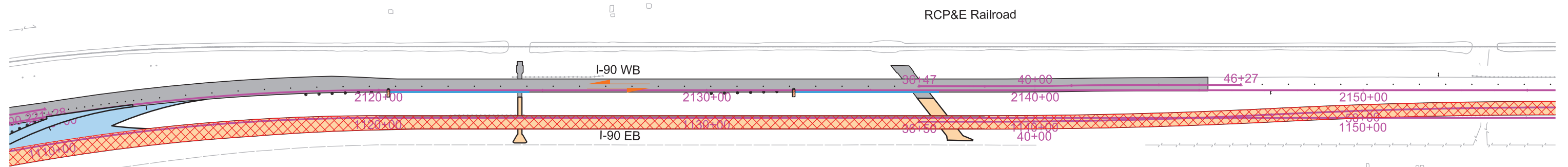
FELSBURG HOLT & GREVIG	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C61	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



### LEGEND

	Barricades and Signs		Type 3 Barricades
	Channelizing Device		Concrete Barrier
	Reflectorized Drum		Temporary Pavement
	42" Cone		Temporary Gravel Road on Grade
	Tubular Marker		Removal Area
	Pavement Markings		Work Area
	Arrow Board		Work Area (Sub Phase)
	Traffic Flow		Completed Construction (in Prior Phases)

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase D-06.dgn

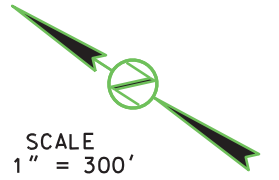
# TRAFFIC CONTROL

## I-90 MAINLINE - PHASE D

FOR BIDDING PURPOSES ONLY

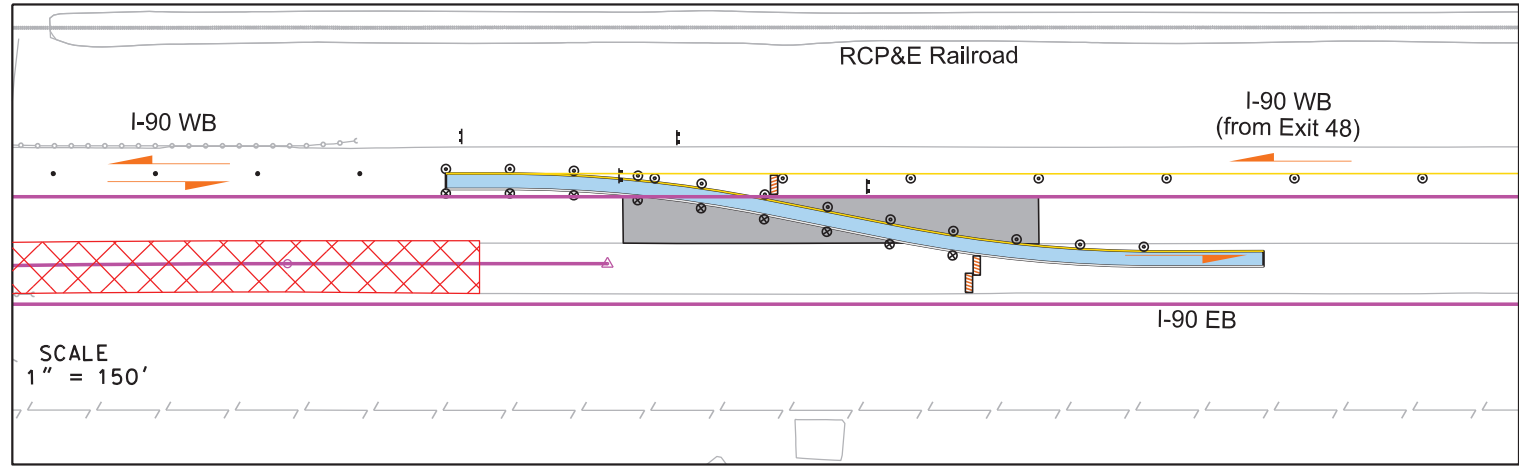
	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C62	C85

Plotting Date: 4/8/2026  
 Rev: 2/14/2025 BRC  
 Rev: 9/30/2025 BRC  
 Rev: 3/6/2026 BRC

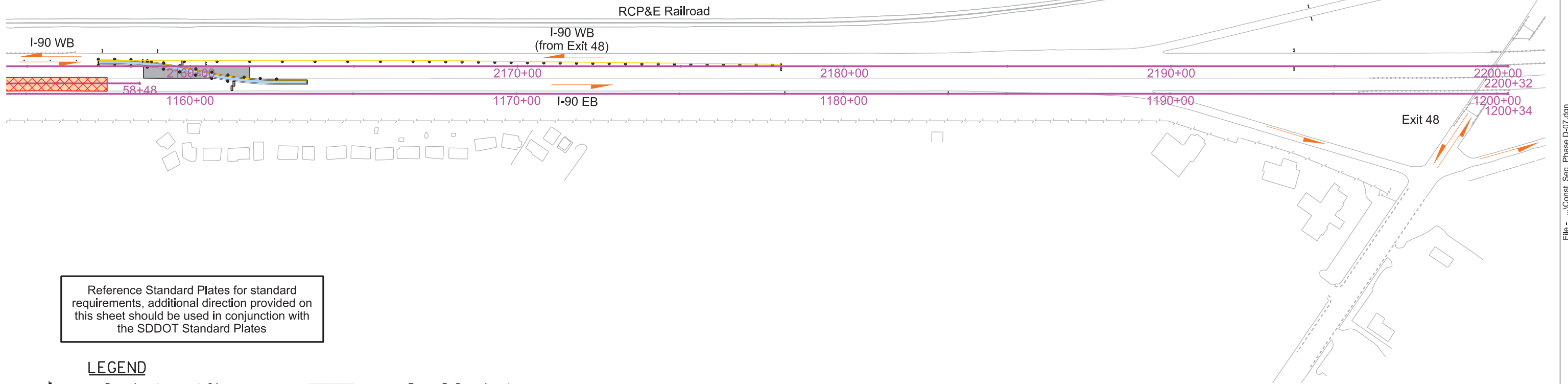


SCALE  
1" = 300'

Plot Scale - 1:300



SCALE  
1" = 150'



Reference Standard Plates for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates

### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plotted From - Marcus, Martinez

File - ...Const\_Seq\_Phase D-07.dgn

# TRAFFIC CONTROL

## STURGIS ROAD - PHASE D

### DETOUR OVERVIEW

FOR BIDDING PURPOSES ONLY

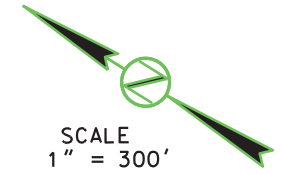


STATE OF SOUTH DAKOTA

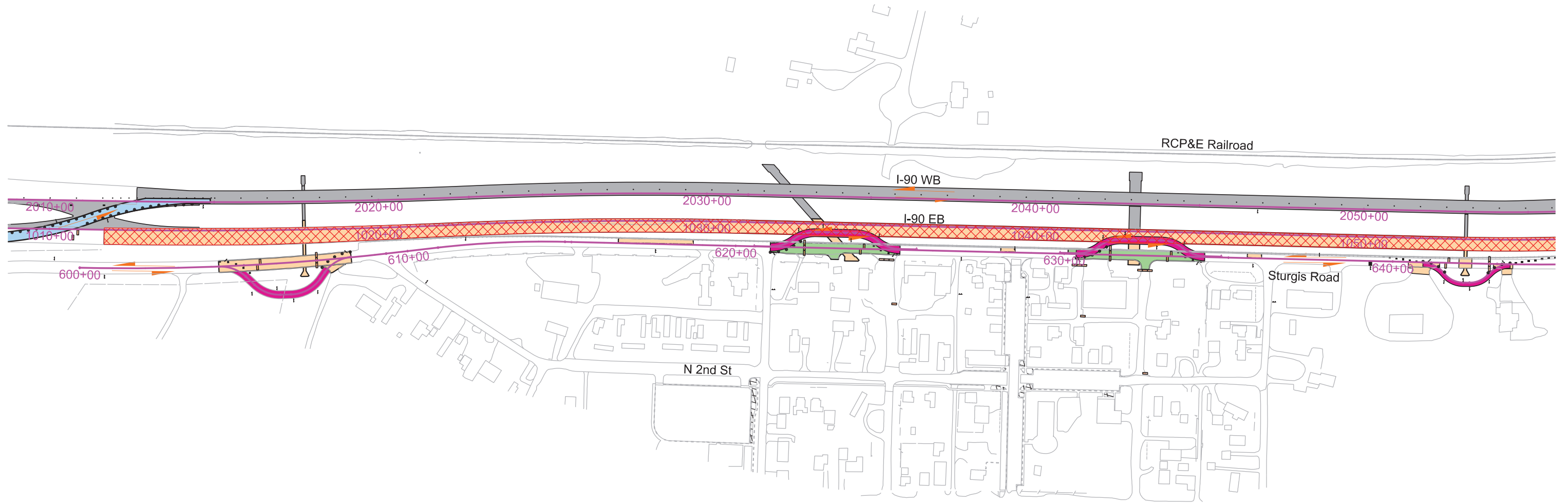
PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	C63	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



Reference Standard Plate 634.28 for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



#### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:300

Plotted From - Marcus, Martinez

File - ...Sturgis Road Detour Sheet.dgn

# TRAFFIC CONTROL

## STURGIS ROAD - PHASE D

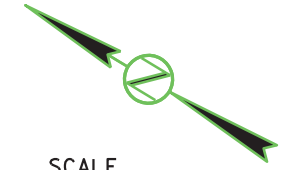
### DIVERSION 606+21

FOR BIDDING PURPOSES ONLY

	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C64	C85

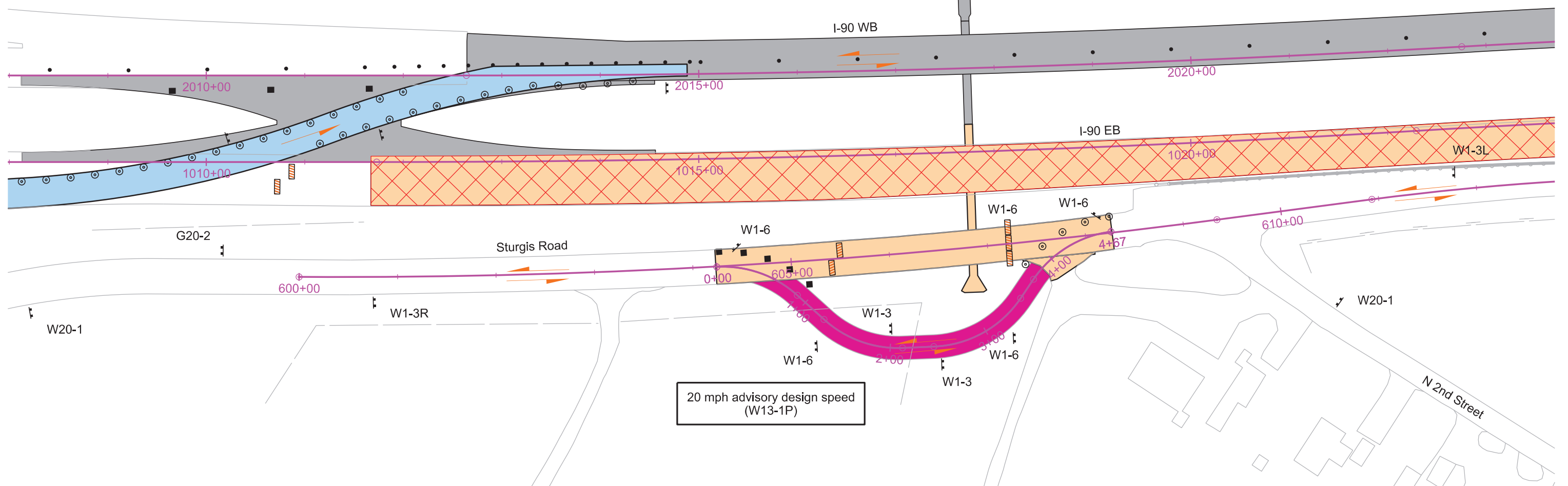
Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



SCALE  
1" = 100'

Reference Standard Plate 634.28 for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



#### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:100

Plotted From - Marcus, Martinez

File - ...Detour #1.dgn

# TRAFFIC CONTROL

## STURGIS ROAD - PHASE D

### DIVERSION 623+04

FOR BIDDING PURPOSES ONLY

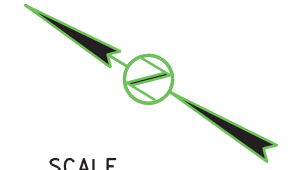


STATE OF SOUTH DAKOTA

PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	C65	C85

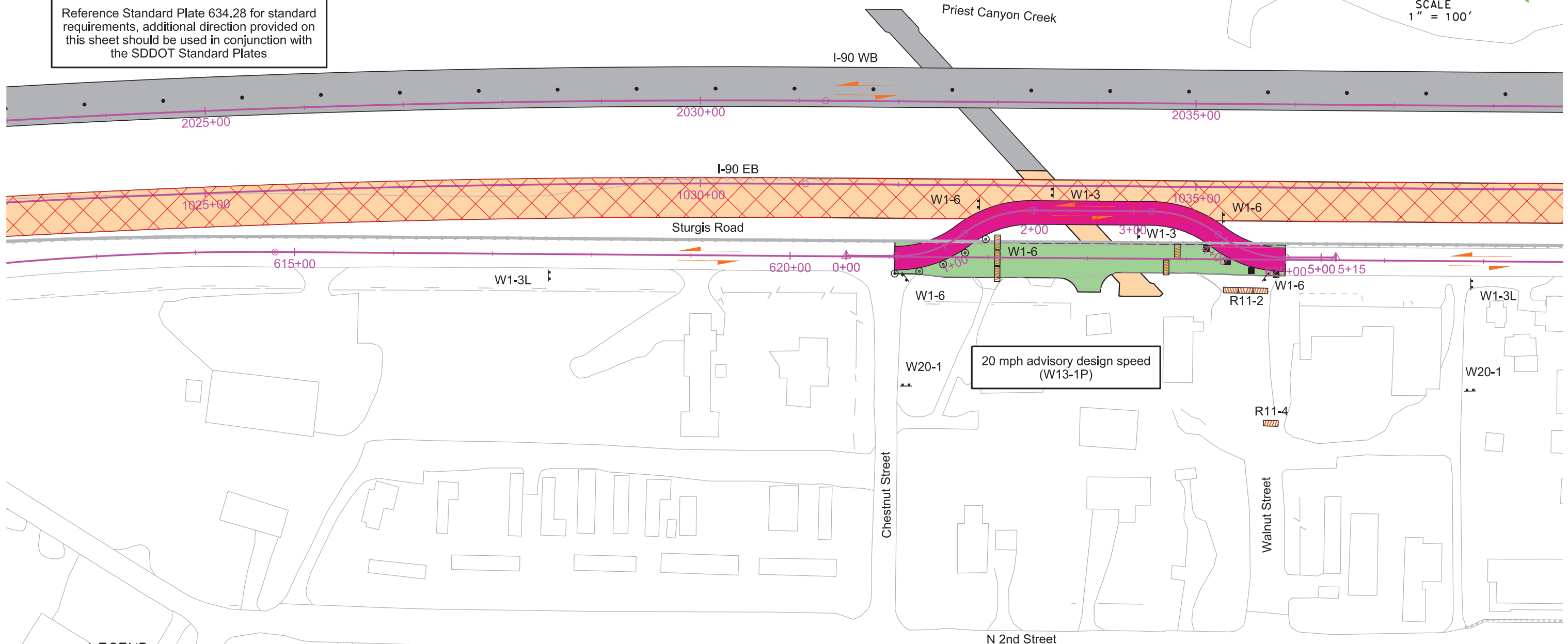
Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



SCALE  
1" = 100'

Reference Standard Plate 634.28 for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



20 mph advisory design speed (W13-1P)

#### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:100

Plotted From - Marcus, Martinez

File - ... \Detour #2.dgn

# TRAFFIC CONTROL

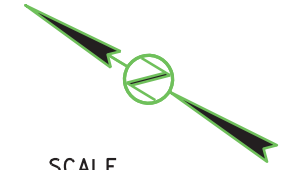
## STURGIS ROAD - PHASE D

### DIVERSION 632+33

FOR BIDDING PURPOSES ONLY

	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C66	C85

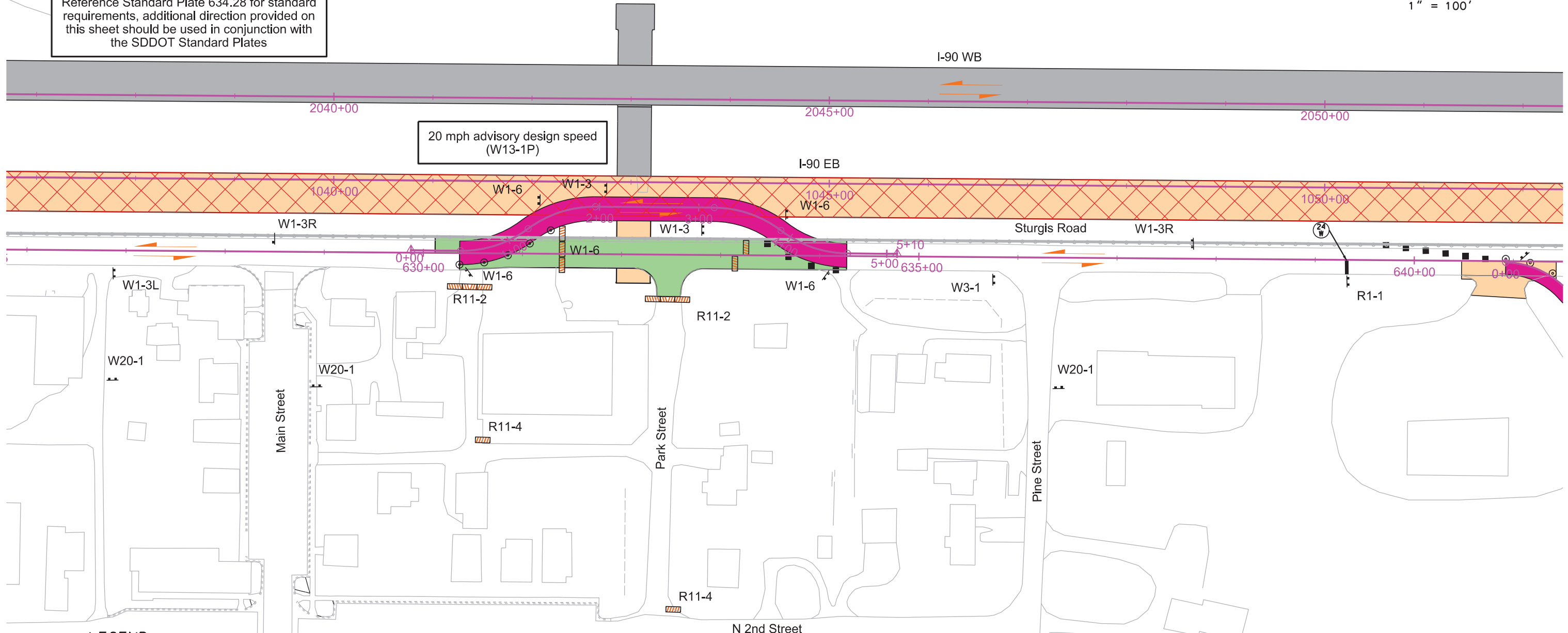
Plotting Date: 4/8/2026  
 Rev: 2/14/2025 BRC  
 Rev: 9/30/2025 BRC  
 Rev: 3/6/2026 BRC



SCALE  
1" = 100'

Reference Standard Plate 634.28 for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates

20 mph advisory design speed (W13-1P)



#### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:100

Plotted From - Marcus, Martinez

File - ... \Detour #3.dgn

# TRAFFIC CONTROL

## STURGIS ROAD - PHASE D

### DIVERSION 642+25

FOR BIDDING PURPOSES ONLY

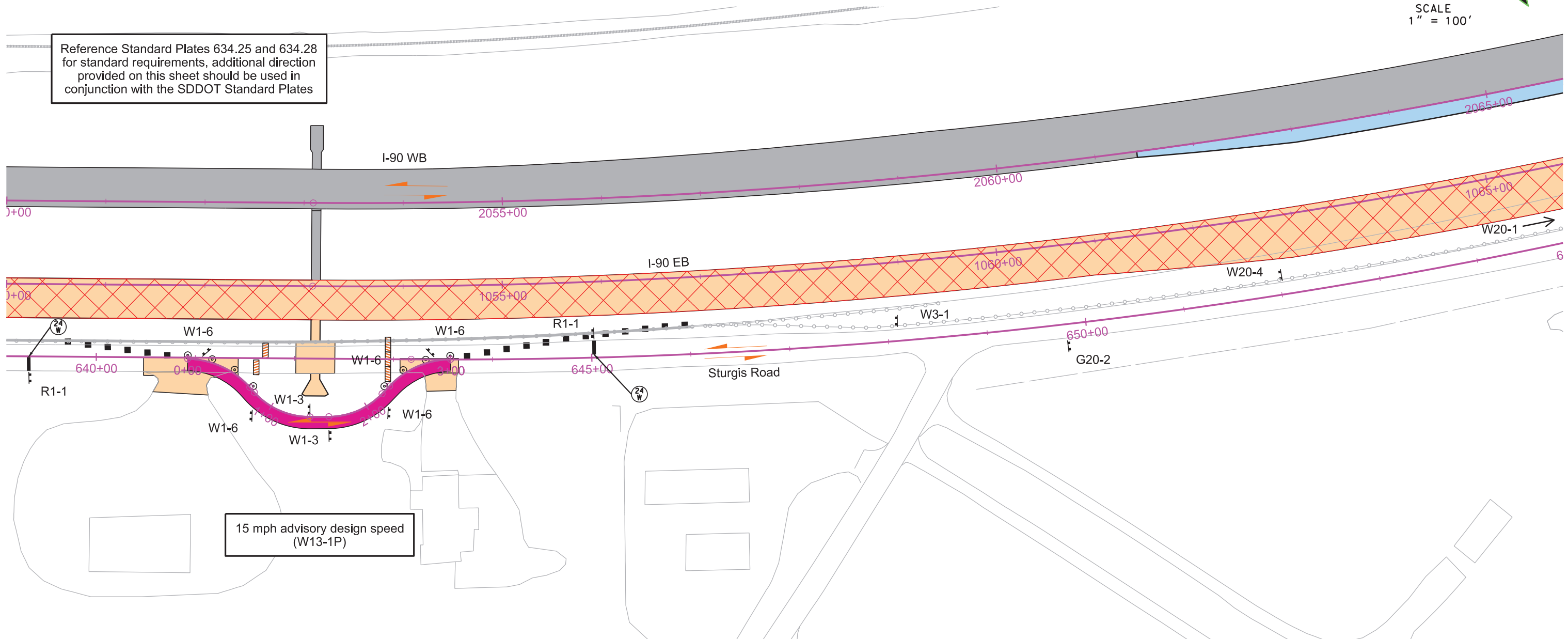
	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C67	C85

Plotting Date: 4/8/2026  
 Rev: 2/14/2025 BRC  
 Rev: 9/30/2025 BRC  
 Rev: 3/6/2026 BRC



SCALE  
1" = 100'

Reference Standard Plates 634.25 and 634.28 for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



15 mph advisory design speed (W13-1P)

Contractor will need to maintain direct line of sight between stop locations and throughout the entire traffic diversion during non-working hours when traffic is controlled by stop signs

#### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.  
 For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:100

Plotted From - Marcus, Martinez

File - ... \Detour #4.dgn

# TRAFFIC CONTROL

## STURGIS ROAD - PHASE D

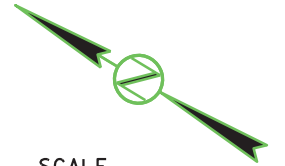
### BARRIER REPLACEMENT

FOR BIDDING PURPOSES ONLY

	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
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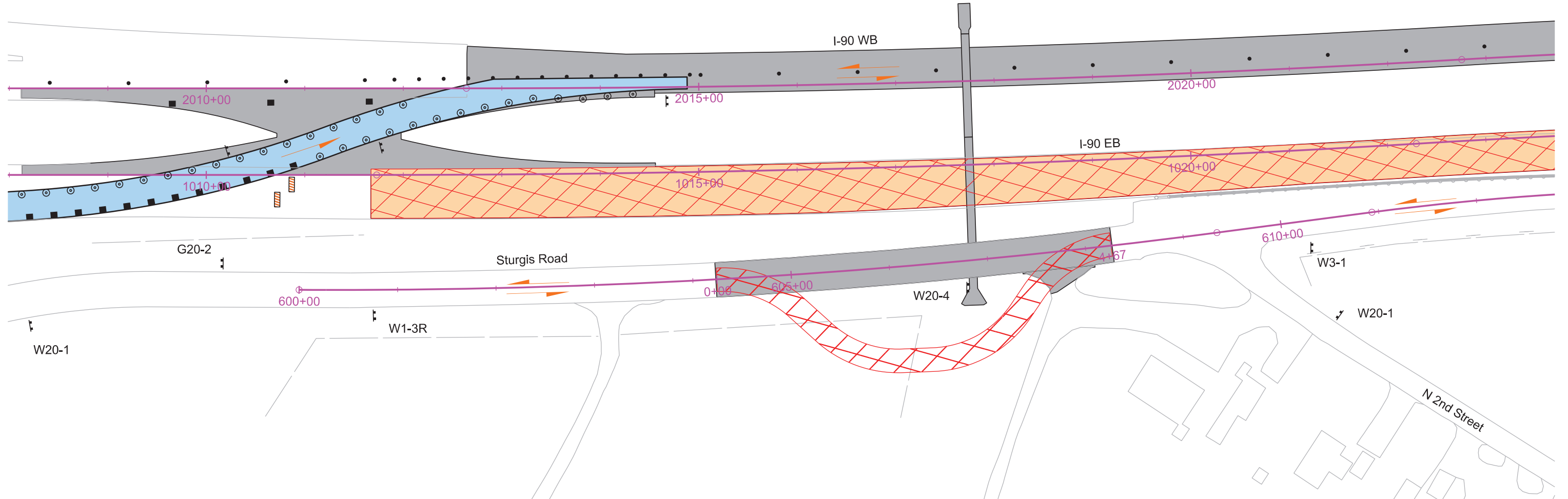
Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



SCALE  
1" = 100'

Reference Standard Plate 634.25 for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates

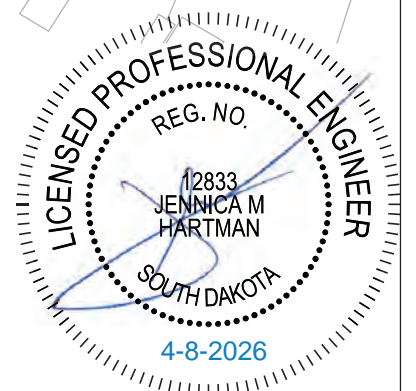


#### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:100

Plotted From - Marcus, Martinez

File - ...Barrier #1.dgn

# TRAFFIC CONTROL

## STURGIS ROAD - PHASE D

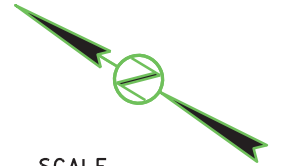
### BARRIER REPLACEMENT

FOR BIDDING PURPOSES ONLY

	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C69	C85

Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



SCALE  
1" = 100'

Reference Standard Plate 634.25 for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



#### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:100

Plotted From - Marcus, Martinez

File - ...Barrier #2.dgn

# TRAFFIC CONTROL

## STURGIS ROAD - PHASE D

### BARRIER REPLACEMENT

FOR BIDDING PURPOSES ONLY

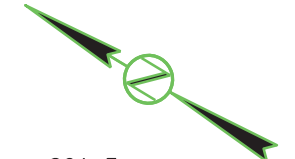


STATE OF SOUTH DAKOTA

PROJECT	SHEET	TOTAL SHEETS
IM-CR-EM 0901(187)44	C70	C85

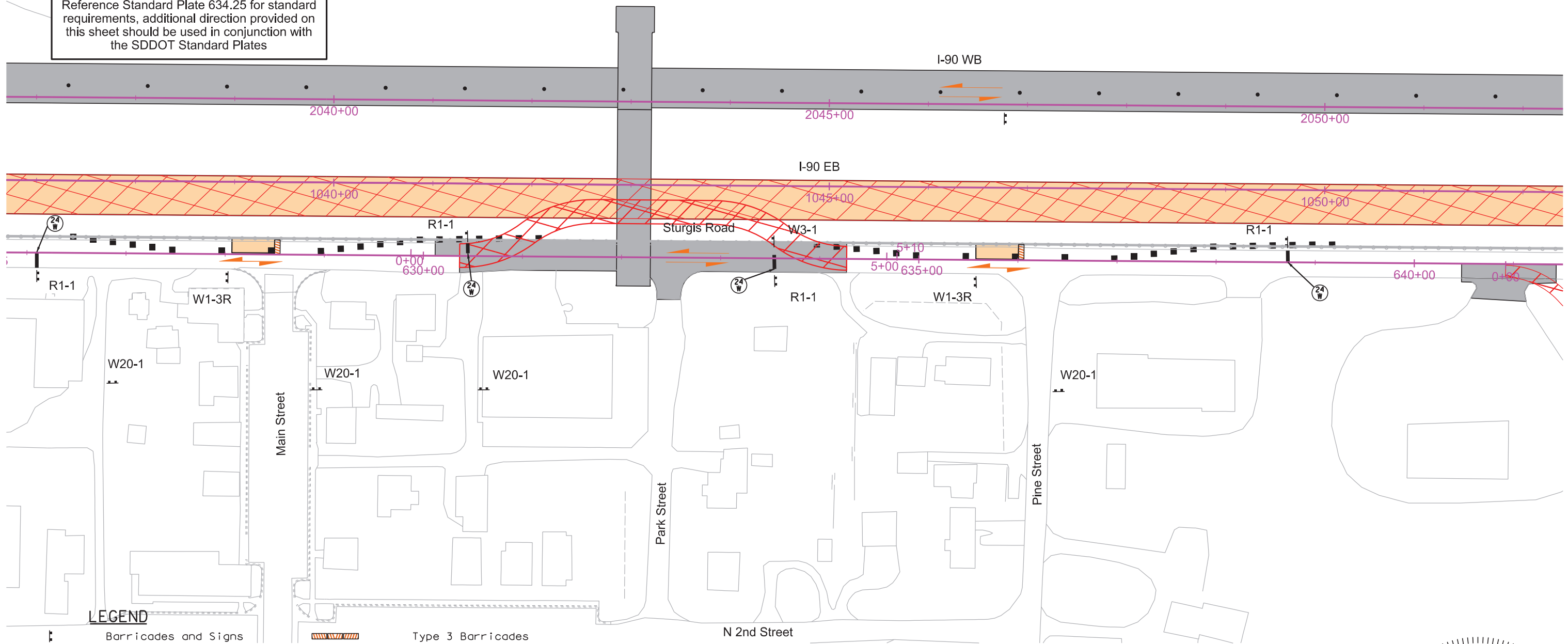
Plotting Date: 4/8/2026

Rev: 2/14/2025 BRC  
Rev: 9/30/2025 BRC  
Rev: 3/6/2026 BRC



SCALE  
1" = 100'

Reference Standard Plate 634.25 for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



#### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:100

Plotted From - Marcus, Martinez

File - ...Barrier #3.dgn

# TRAFFIC CONTROL

## STURGIS ROAD - PHASE D

### BARRIER REPLACEMENT

FOR BIDDING PURPOSES ONLY

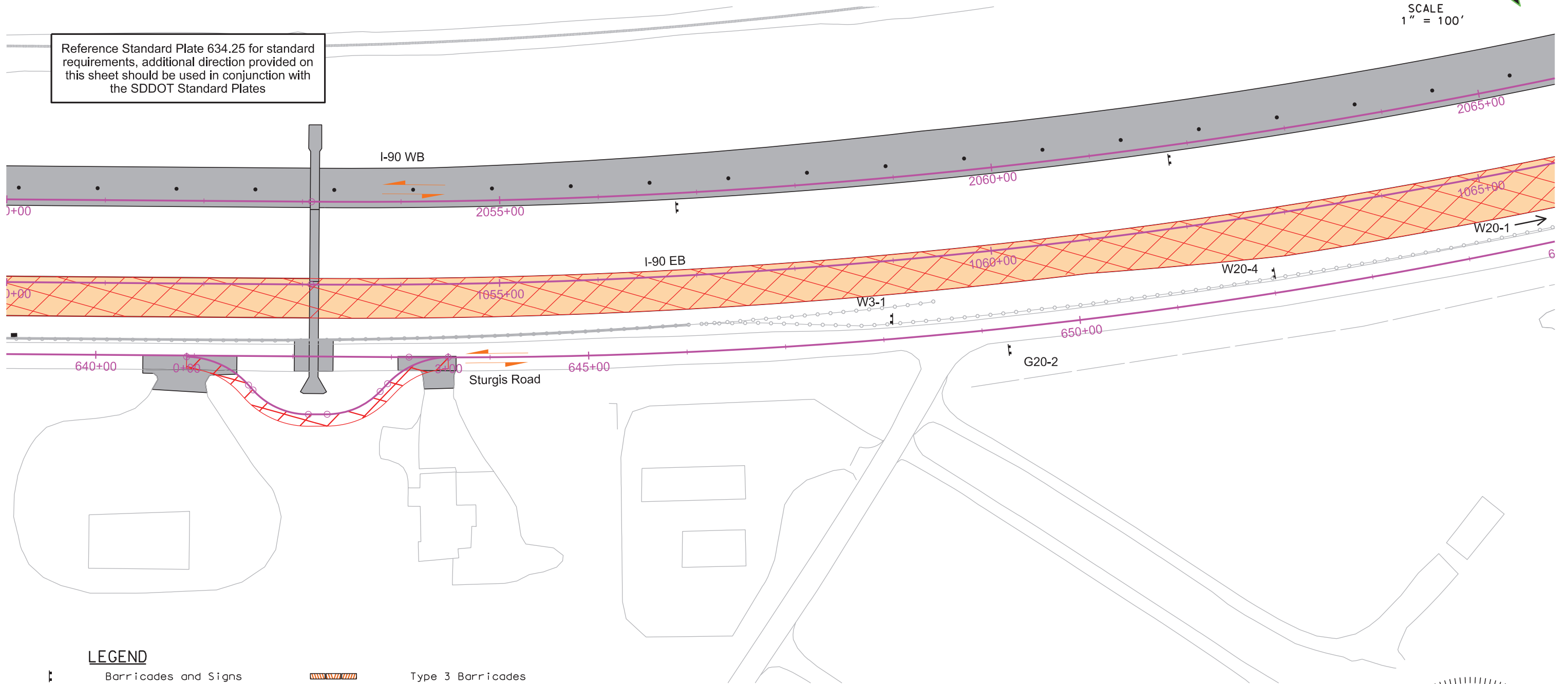
	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM-CR-EM 0901(187)44	C71	C85	

Plotting Date: 4/8/2026  
 Rev: 2/14/2025 BRC  
 Rev: 9/30/2025 BRC  
 Rev: 3/6/2026 BRC



SCALE  
1" = 100'

Reference Standard Plate 634.25 for standard requirements, additional direction provided on this sheet should be used in conjunction with the SDDOT Standard Plates



#### LEGEND

- |  |                      |  |                                          |
|--|----------------------|--|------------------------------------------|
|  | Barricades and Signs |  | Type 3 Barricades                        |
|  | Channelizing Device  |  | Concrete Barrier                         |
|  | Reflectorized Drum   |  | Temporary Pavement                       |
|  | 42" Cone             |  | Temporary Gravel Road on Grade           |
|  | Tubular Marker       |  | Removal Area                             |
|  | Pavement Markings    |  | Work Area                                |
|  | Arrow Board          |  | Work Area (Sub Phase)                    |
|  | Traffic Flow         |  | Completed Construction (in Prior Phases) |

Transitions and tapers Will utilize tabs and barrels.

For sign spacing, barrel spacing, and taper lengths refer to standard plates. For temporary pavement and gravel quantities, see Section B.



Plot Scale - 1:100

Plotted From - Marcus, Martinez

File - ...Barrier #4.dgn

# TRAFFIC CONTROL

FOR BIDDING PURPOSES ONLY

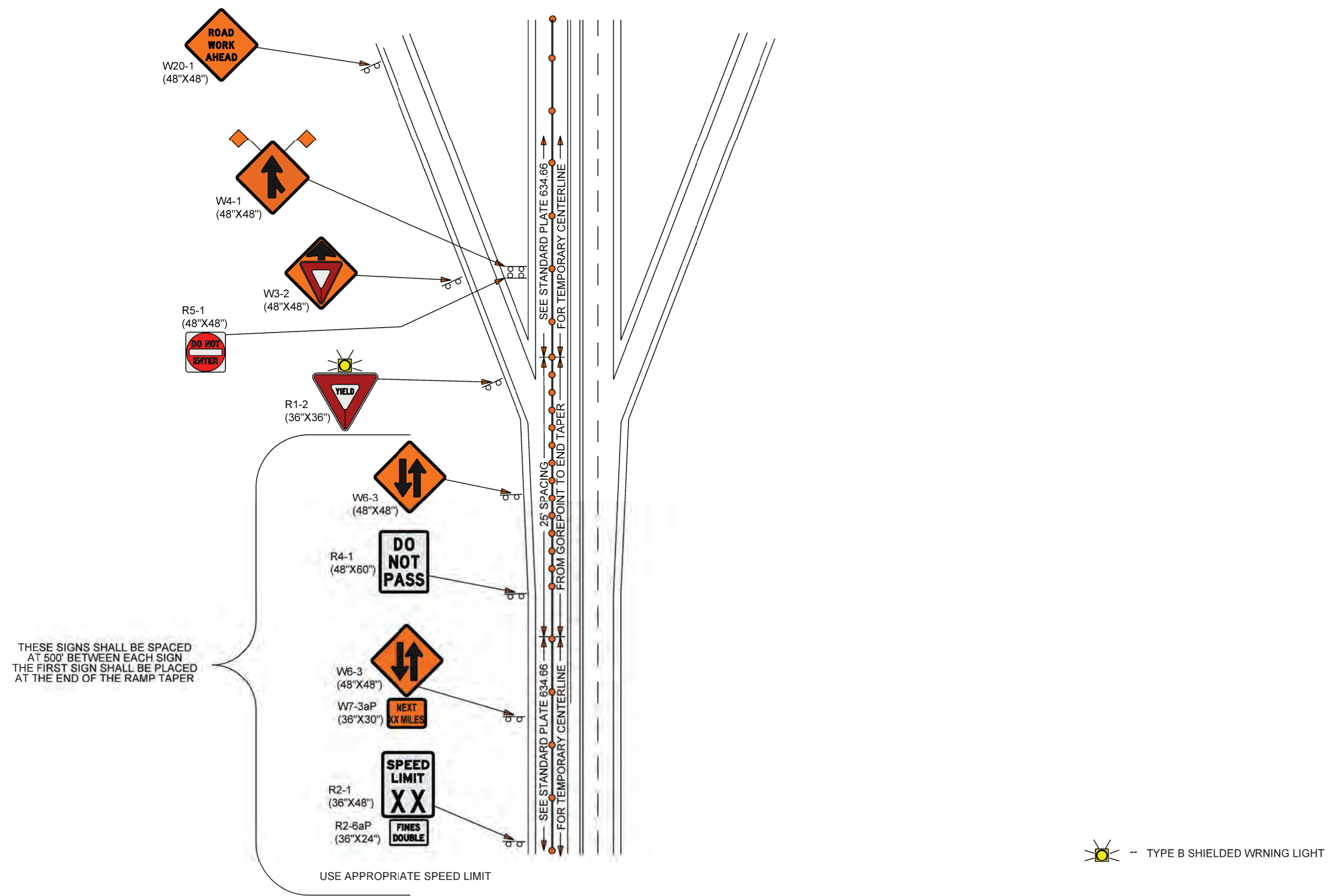
	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C72	C85

Plotting Date: 05/13/2021

## RAMP ENTRANCE SIGNING DETAILS (TWO WAY TRAFFIC)

Plot Scale - 1:40

Plotted From - TRRC11640



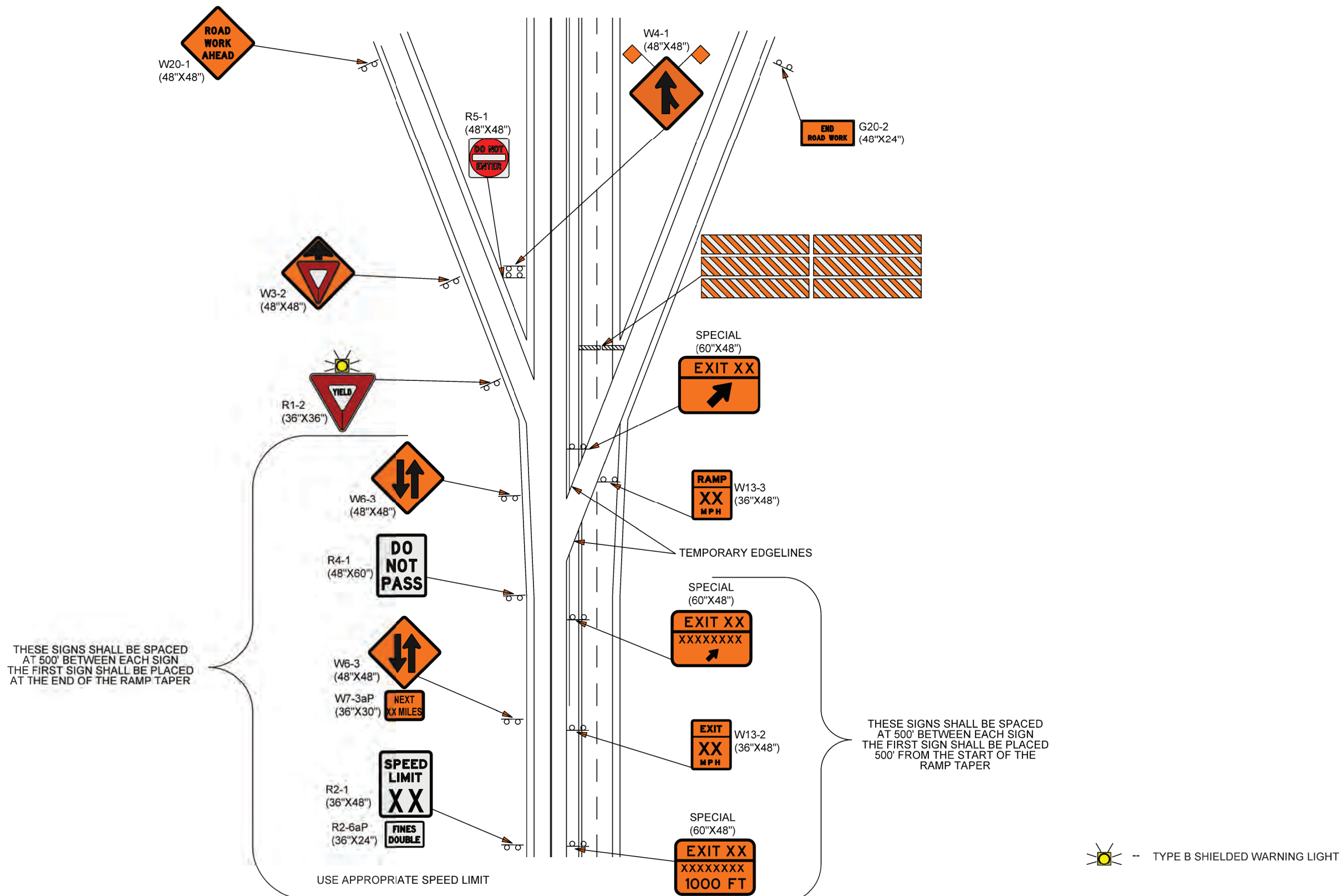
# TRAFFIC CONTROL

## RAMP ENTRANCE AND EXIT SIGNING DETAILS (TWO WAY TRAFFIC #1)

FOR BIDDING PURPOSES ONLY

	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C73	C85

Plotting Date: 05/13/2021



# TRAFFIC CONTROL

FOR BIDDING PURPOSES ONLY

	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		IM-CR-EM 0901(187)44	C74	C85

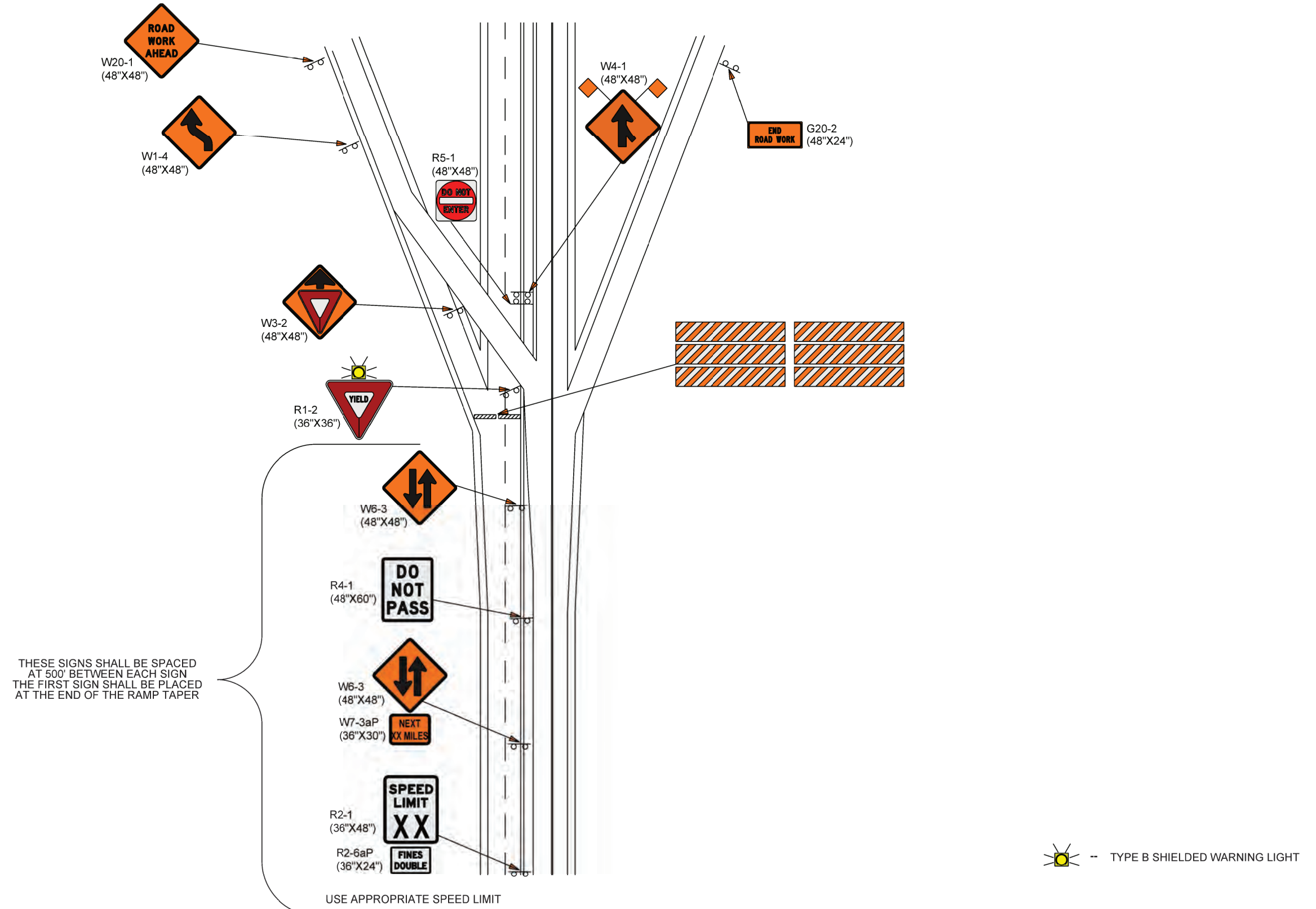
Plotting Date: 05/13/2021

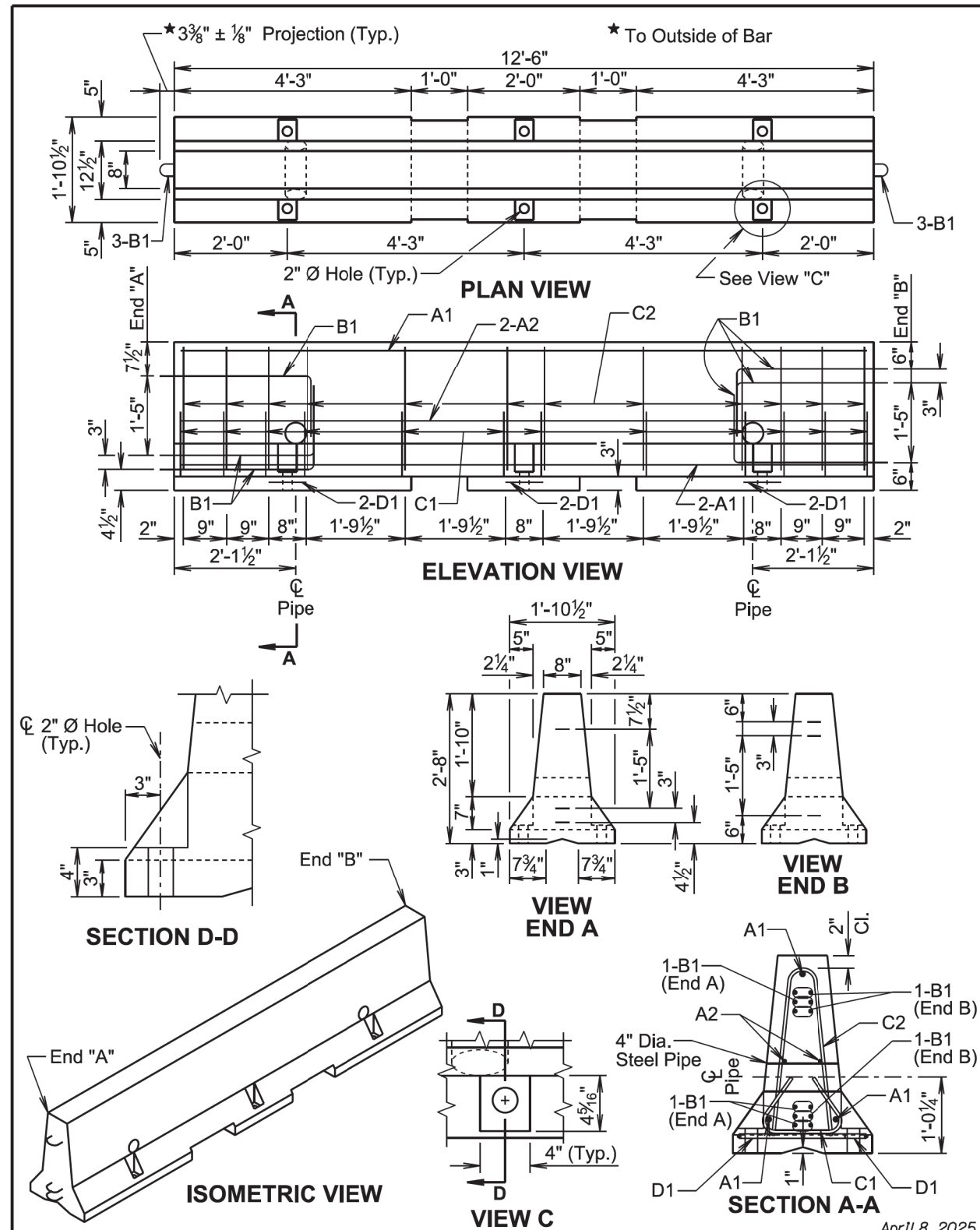
## RAMP ENTRANCE AND EXIT SIGNING DETAILS (TWO WAY TRAFFIC #2)

Plot Scale - 1:40

Plotted From - TRRC11640

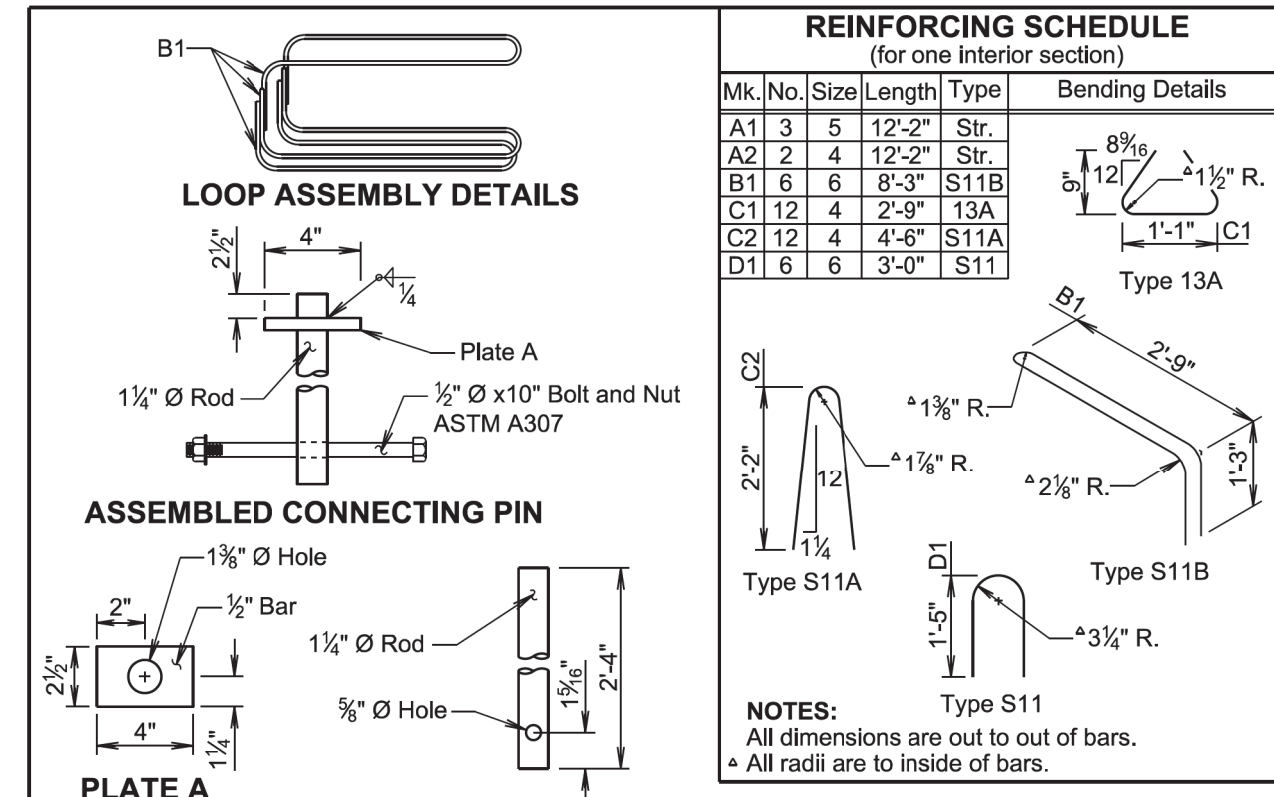
Plotted From -





April 8, 2025

<p>Published Date: 2026</p>	<p><b>SDDOT</b></p>	<p><b>MOVABLE F SHAPE CONCRETE BARRIERS (INTERIOR SECTION)</b></p>	<p>PLATE NUMBER</p> <p>628.10</p>
			<p>Sheet 1 of 2</p>



REINFORCING SCHEDULE (for one interior section)					
Mk.	No.	Size	Length	Type	Bending Details
A1	3	5	12'-2"	Str.	
A2	2	4	12'-2"	Str.	
B1	6	6	8'-3"	S11B	
C1	12	4	2'-9"	13A	
C2	12	4	4'-6"	S11A	
D1	6	6	3'-0"	S11	

**NOTES:**  
All dimensions are out to out of bars.  
All radii are to inside of bars.

**GENERAL NOTES:**

Concrete will be Class M6 in accordance with Section 462 of the Specifications. Type I, II, or III cement will be used.

All reinforcing steel will conform to ASTM A615 Grade 60, except B1 bars. The B1 loop bars will be 3/4 inch smooth steel bars with a minimum yield of 60 ksi and conform to ASTM A706 or A709. The loops will be installed within 1/8 inch of the plan dimensions.

Steel for pins will conform to ASTM A36. Pipe will be galvanized and conform to ASTM A53.

Galvanize the connecting pin assembly after fabrication in accordance with ASTM A123. Paint exposed portions of the loop assembly B1 bars with a zinc rich galvanizing paint.

All exposed edges will be chamfered 3/4 inch.

Use 2 inch clear cover on all reinforcing steel EXCEPT as shown.

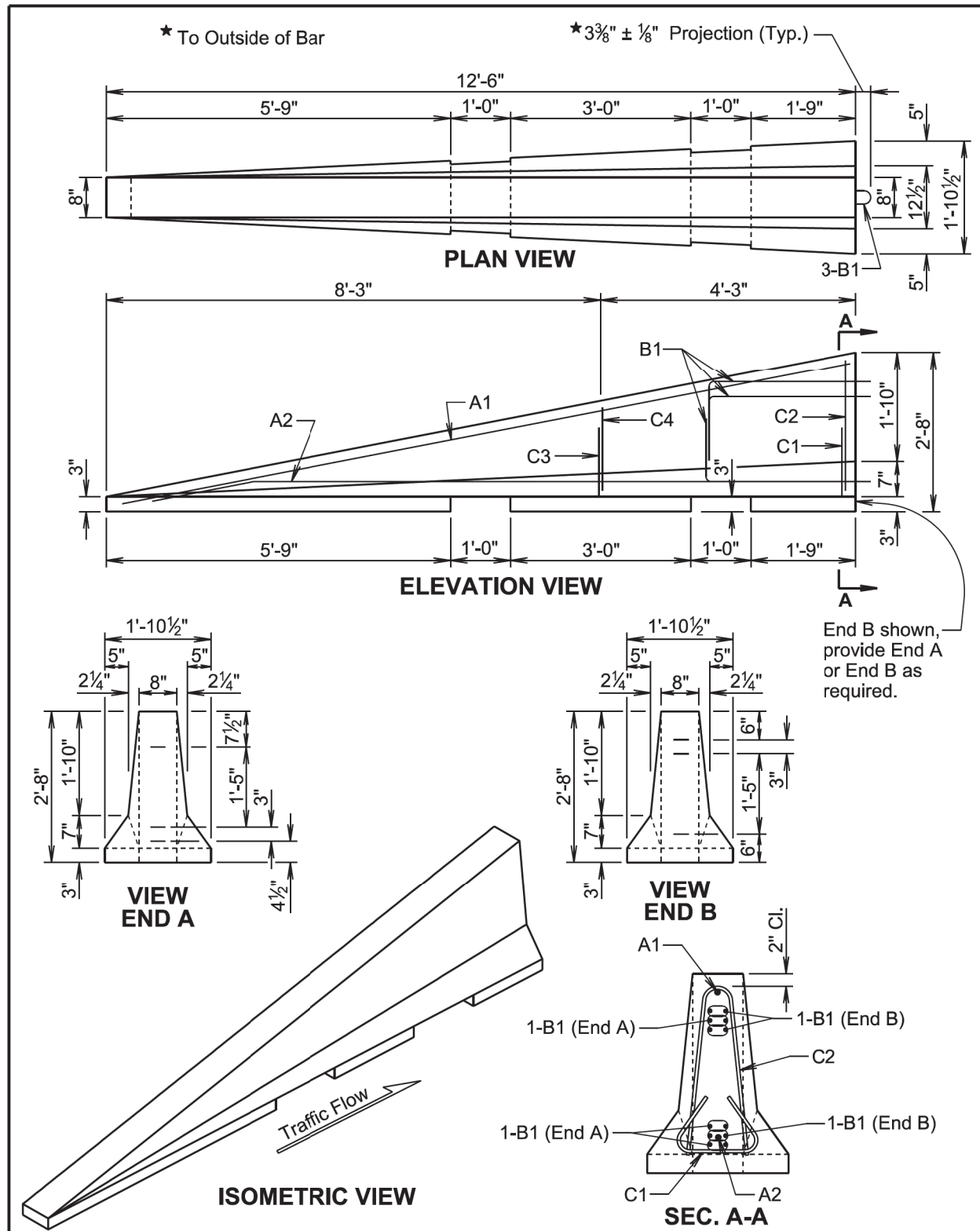
Each movable concrete barrier section is detailed to provide End "A" to End "B" connection by insertion of a pin through loops formed by reinforcing bars "B1".

All costs for materials, labor, equipment, and incidentals necessary for furnishing the complete movable concrete barrier interior section including one connecting pin assembly will be incidental to the contract unit price per each for "Movable F Shape Concrete Barrier, Interior Section".

For informational purposes only, each movable concrete barrier interior section contains 1.3 Cu. Yds. of concrete and 214 Lbs. of reinforcing steel.

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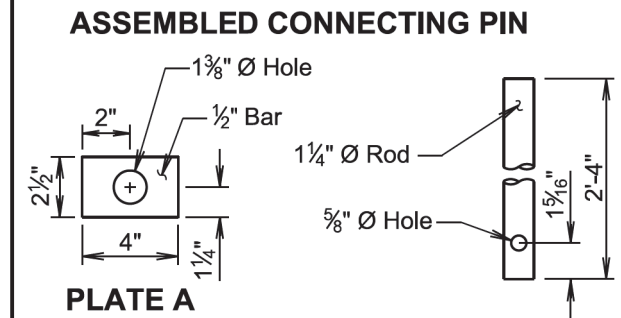
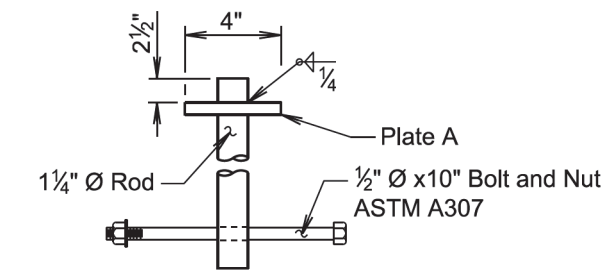
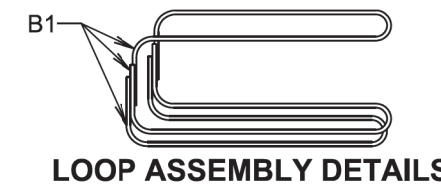
<p>Published Date: 2026</p>	<p><b>SDDOT</b></p>	<p><b>MOVABLE F SHAPE CONCRETE BARRIERS (INTERIOR SECTION)</b></p>	<p>PLATE NUMBER</p> <p>628.10</p>
			<p>Sheet 2 of 2</p>



September 14, 2018

	<b>MOVABLE F SHAPE CONCRETE BARRIERS (END SECTION)</b>	PLATE NUMBER 628.11
		Sheet 1 of 2

Published Date: 2026



**GENERAL NOTES:**

- Concrete will be Class M6 in accordance with Section 462 of the Specifications. Type I, II, or III cement will be used.
- All reinforcing steel will conform to ASTM A615, Grade 60, except B1 bars. The B1 loop bars will be ¾ inch smooth steel bars with a minimum yield of 60 ksi and conform to ASTM A706 or A709. The loops will be installed within 1/8 inch of the plan dimensions.
- Steel for pins will conform to ASTM A36.
- Galvanize the connecting pin assembly after fabrication in accordance with ASTM A123. Paint exposed portions of the loop assembly B1 bars with a zinc rich galvanizing paint.
- All exposed edges will be chamfered 3/4 inch.
- Use 2 inch clear cover on all reinforcing steel EXCEPT as shown.
- Each movable concrete barrier end section is detailed to provide End "A" to End "B" connection by insertion of a pin through loops formed by reinforcing bars "B1".
- All costs for materials, labor, equipment, and incidentals necessary for furnishing the complete movable concrete barrier end section including one connecting pin assembly will be incidental to the contract unit price per each for "Movable F Shape Concrete Barrier, End Section".
- For informational purposes only, each movable concrete barrier end section contains 0.6 Cu. Yds. of concrete and 66 Lbs. of reinforcing steel.

September 14, 2018

	<b>MOVABLE F SHAPE CONCRETE BARRIERS (END SECTION)</b>	PLATE NUMBER 628.11
		Sheet 2 of 2

Published Date: 2026

**REINFORCING SCHEDULE**  
(for one end section)

Mk.	No.	Size	Length	Type	Bending Details
A1	1	5	12'-4"	Str.	
A2	1	5	11'-9"	19B	
B1	3	6	7'-3"	S11B	
C1	1	4	2'-9"	13A	
C2	1	4	4'-6"	S11A	
C3	1	4	1'-10"	13A	
C4	1	4	3'-1"	S11A	

Type 13A

Type S11A

Type 19B

Type S11B

NOTES:  
All dimensions are out to out of bars.  
All radii are to inside of bars.

Plot Scale - 1:1

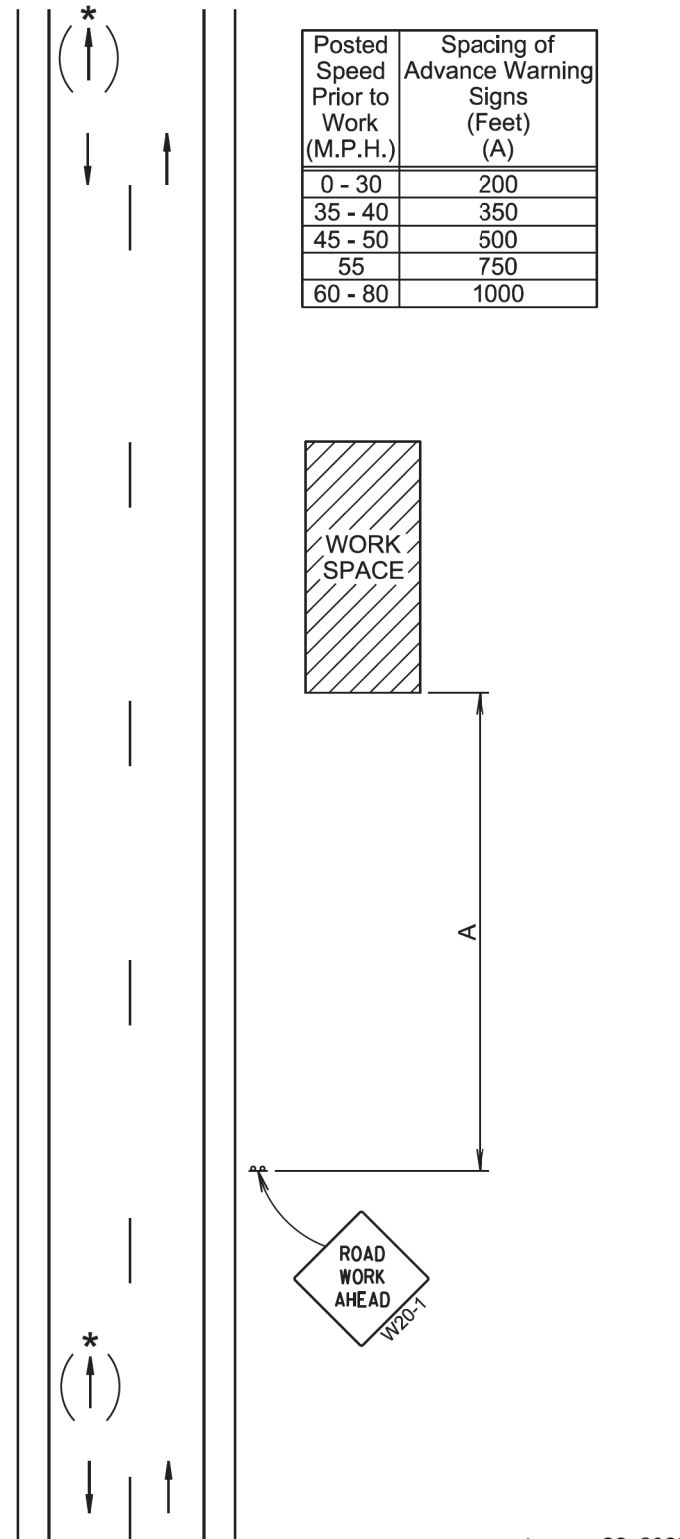
The signs illustrated are not required if the work space is behind a barrier, more than 2 feet behind the curb, or 15 feet or more from the edge of any roadway.

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.

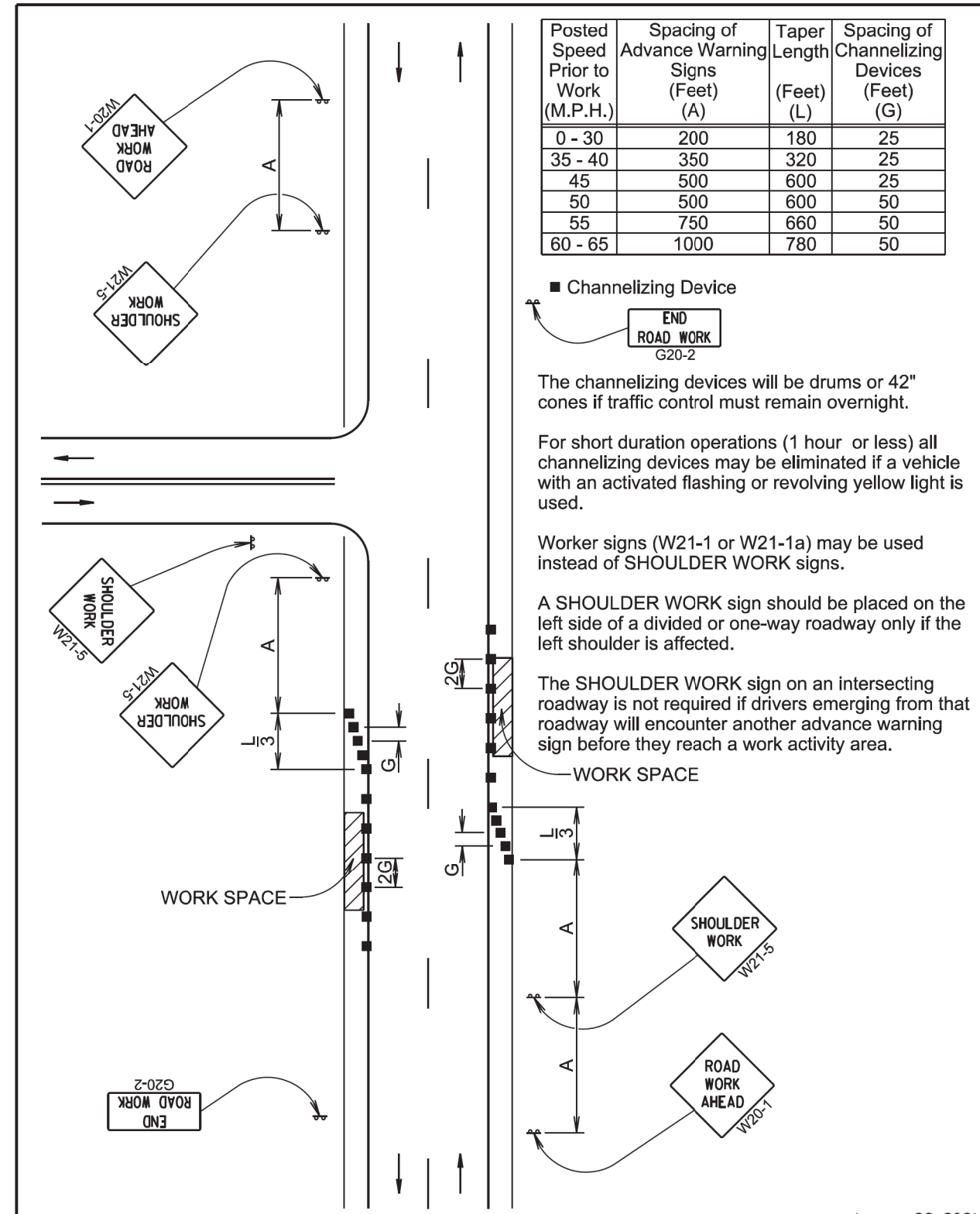
For short term, short duration, or mobile operations, all signs and channelizing devices may be eliminated if a vehicle with an activated flashing or revolving yellow light is used.



January 22, 2021

	<b>WORK BEYOND THE SHOULDER</b>	PLATE NUMBER 634.01
		Sheet 1 of 1

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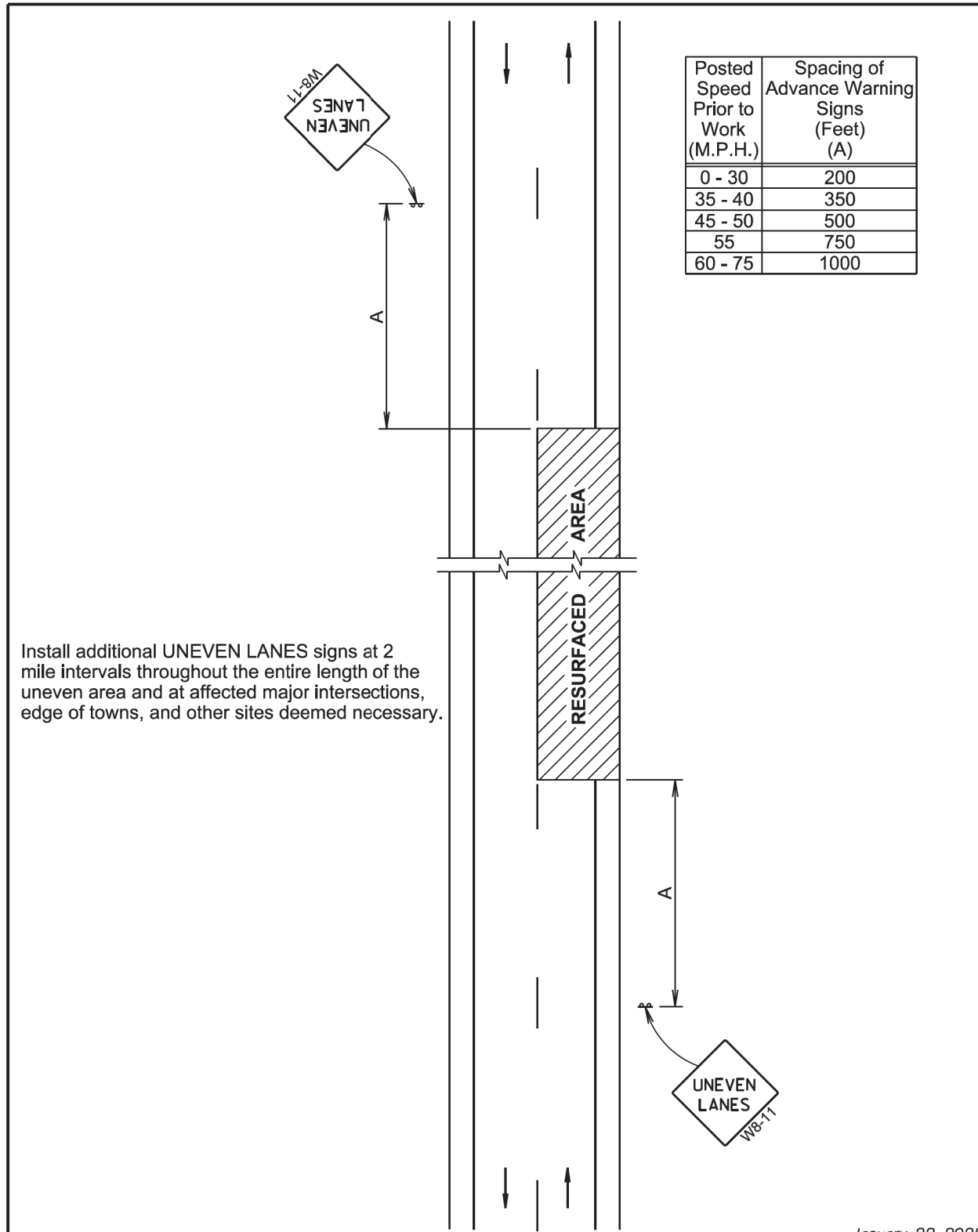


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	<b>WORK ON SHOULDERS</b>	PLATE NUMBER 634.03
		Sheet 1 of 1

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Plot Scale - 1:1



January 22, 2021

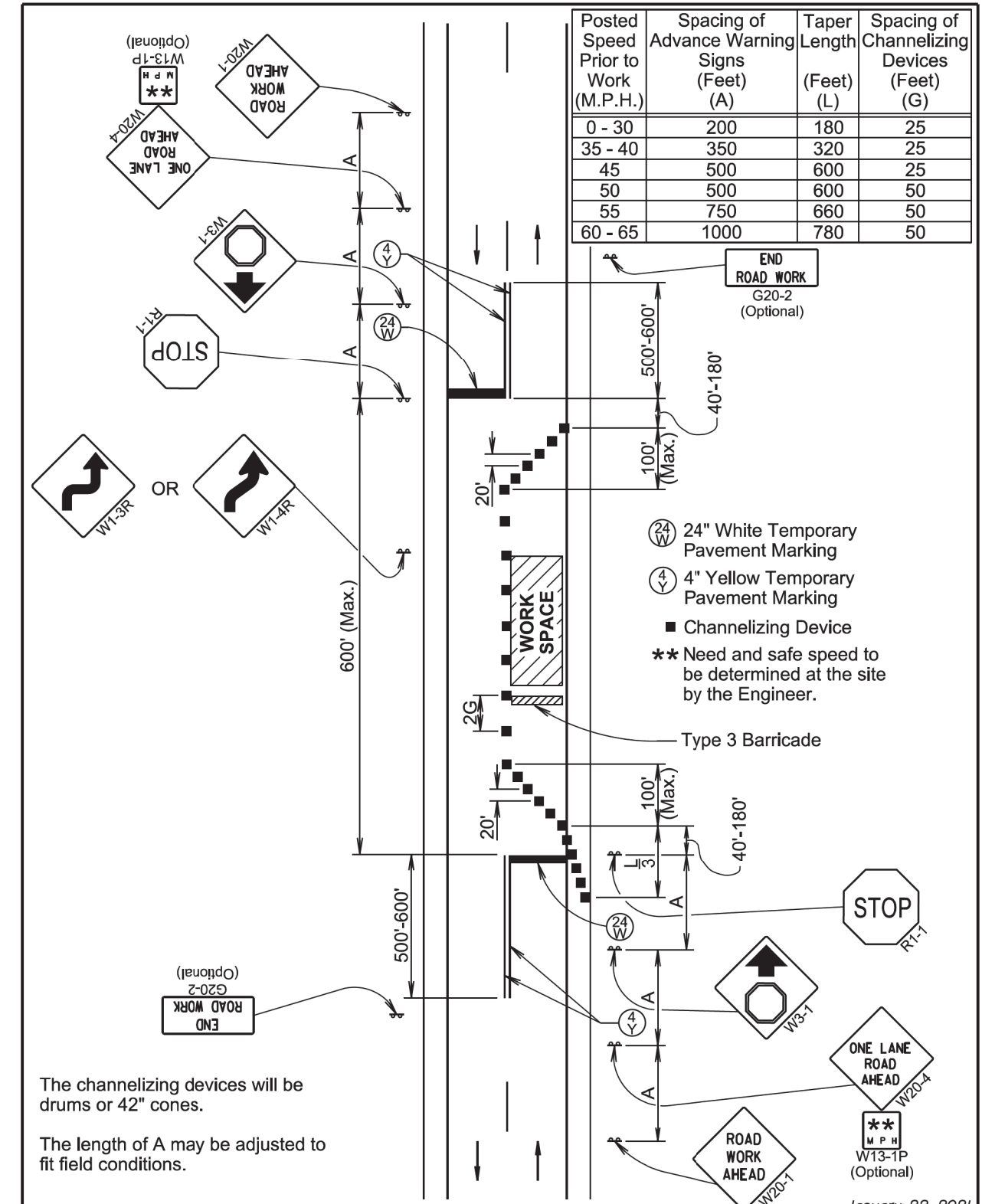
Published Date: 2026

**SD DOT**

**UNEVEN ROAD SURFACE**

PLATE NUMBER 634.22

Sheet 1 of 1



January 22, 2021

Published Date: 2026

**SD DOT**

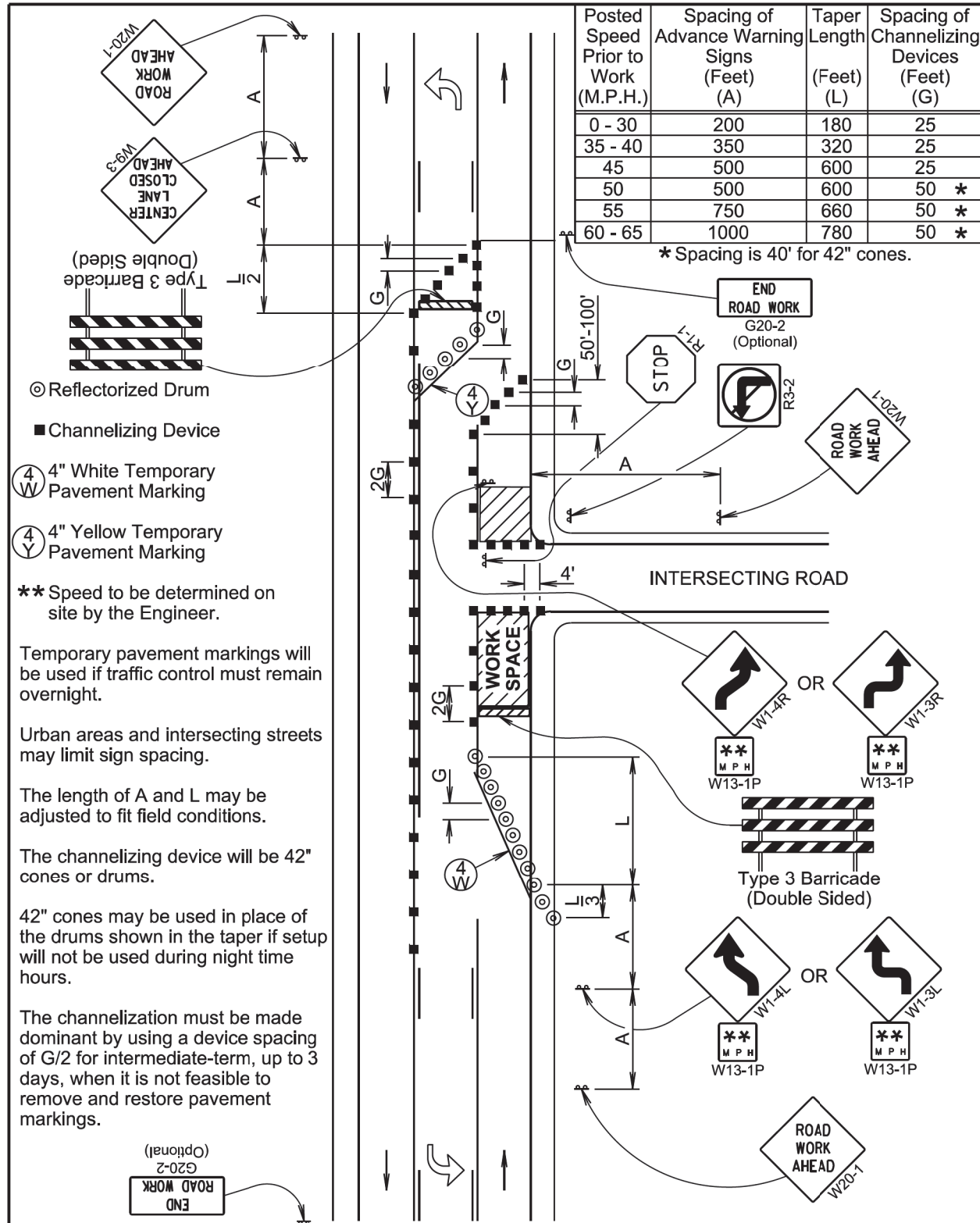
**LANE CLOSURE USING STOP SIGNS**

PLATE NUMBER 634.25

Sheet 1 of 1



Plot Scale - 1:1



Posted Speed Prior to Work (M.P.H.)	Spacing of Advance Warning Signs (Feet) (A)	Taper Length (Feet) (L)	Spacing of Channelizing Devices (Feet) (G)
0 - 30	200	180	25
35 - 40	350	320	25
45	500	600	25
50	500	600	50 *
55	750	660	50 *
60 - 65	1000	780	50 *

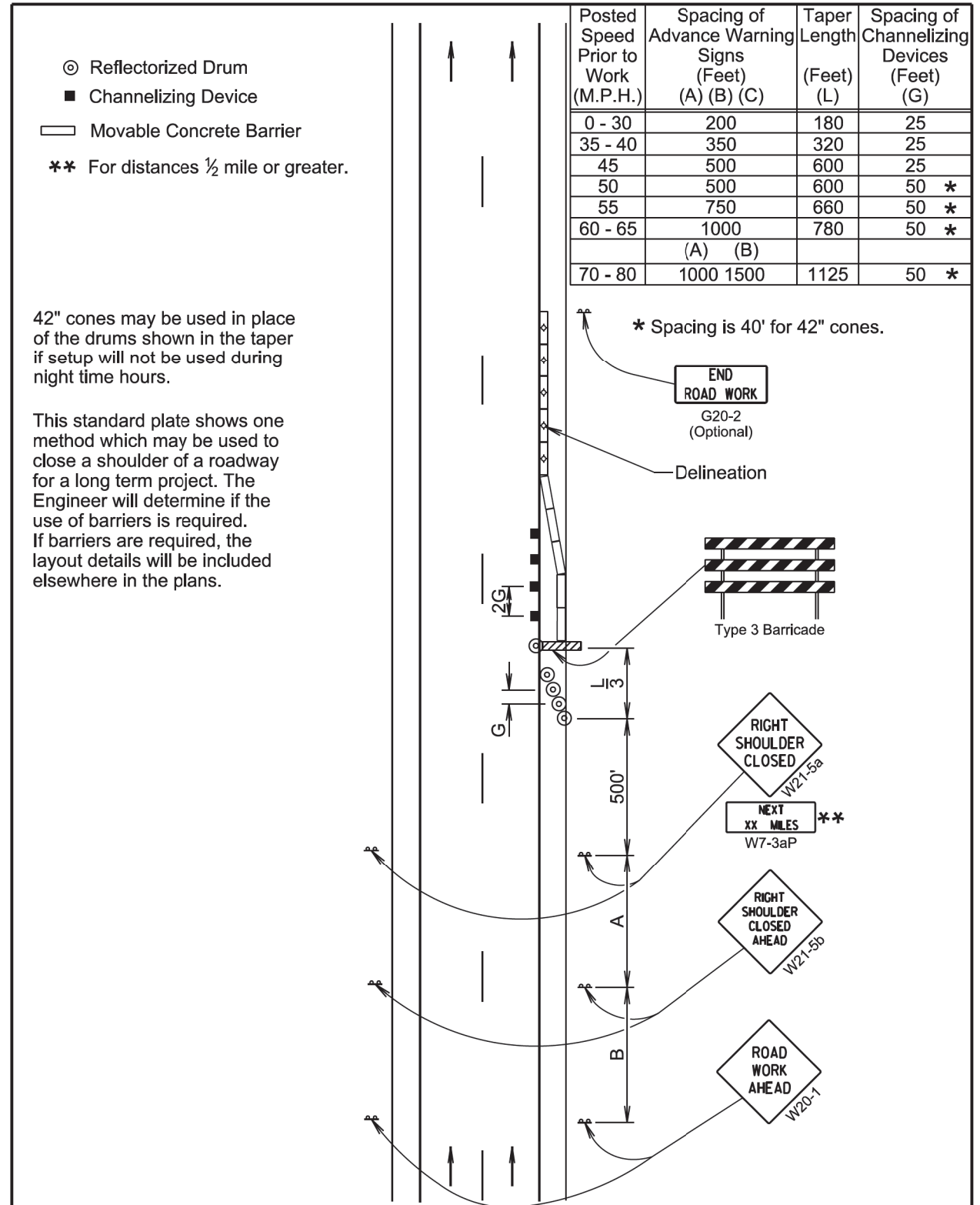
\* Spacing is 40' for 42" cones.

● Reflectorized Drum  
 ■ Channelizing Device  
 (4) 4" White Temporary Pavement Marking  
 (4) 4" Yellow Temporary Pavement Marking  
 \*\* Speed to be determined on site by the Engineer.  
 Temporary pavement markings will be used if traffic control must remain overnight.  
 Urban areas and intersecting streets may limit sign spacing.  
 The length of A and L may be adjusted to fit field conditions.  
 The channelizing device will be 42" cones or drums.  
 42" cones may be used in place of the drums shown in the taper if setup will not be used during night time hours.  
 The channelization must be made dominant by using a device spacing of G/2 for intermediate-term, up to 3 days, when it is not feasible to remove and restore pavement markings.

January 22, 2021

	<b>3-LANE, OUTSIDE LANE CLOSED</b>	PLATE NUMBER <b>634.53</b>
		Sheet 1 of 1

Published Date: 2026



Posted Speed Prior to Work (M.P.H.)	Spacing of Advance Warning Signs (Feet) (A) (B) (C)	Taper Length (Feet) (L)	Spacing of Channelizing Devices (Feet) (G)
0 - 30	200	180	25
35 - 40	350	320	25
45	500	600	25
50	500	600	50 *
55	750	660	50 *
60 - 65	1000	780	50 *
70 - 80	1000 1500	1125	50 *

\* Spacing is 40' for 42" cones.

● Reflectorized Drum  
 ■ Channelizing Device  
 □ Movable Concrete Barrier  
 \*\* For distances 1/2 mile or greater.

42" cones may be used in place of the drums shown in the taper if setup will not be used during night time hours.

This standard plate shows one method which may be used to close a shoulder of a roadway for a long term project. The Engineer will determine if the use of barriers is required. If barriers are required, the layout details will be included elsewhere in the plans.

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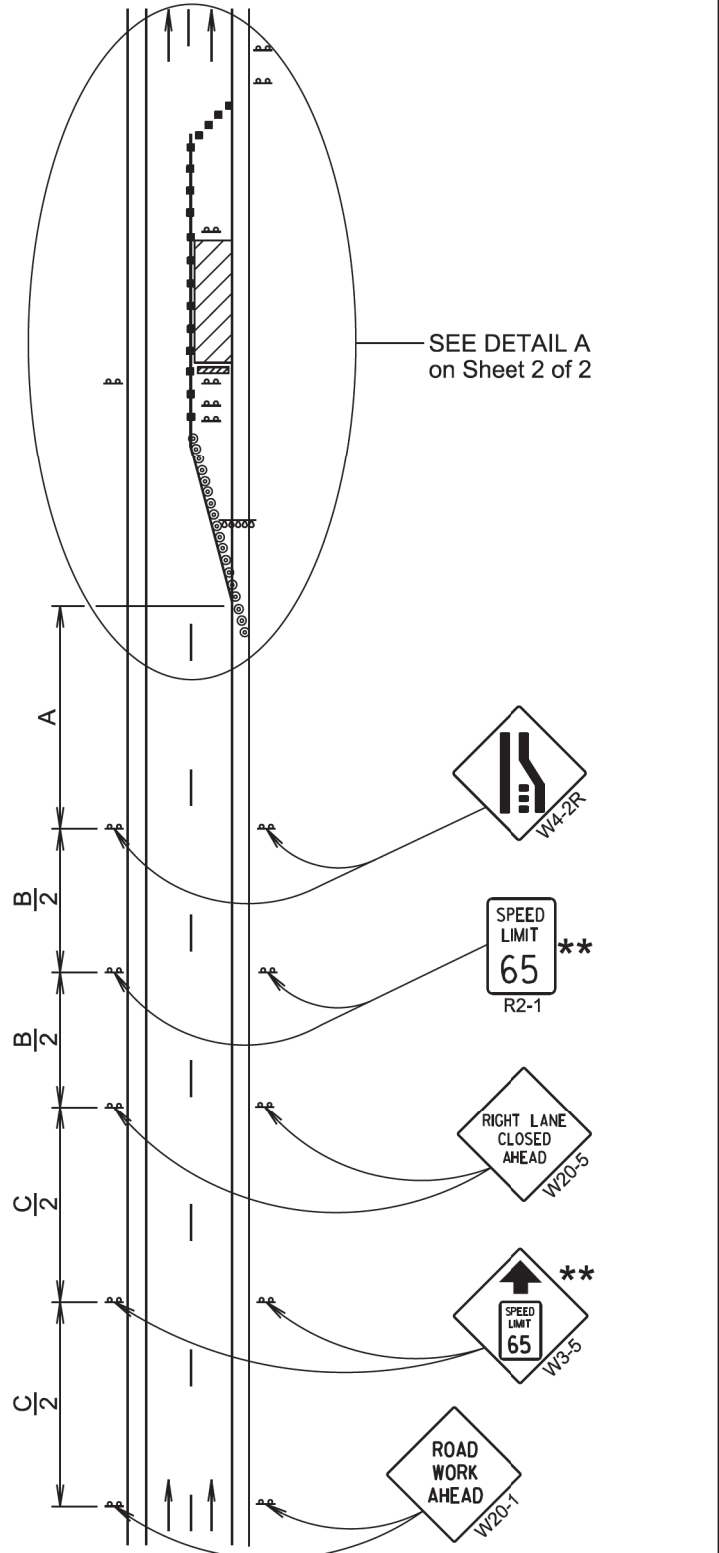
	<b>SHOULDER CLOSED</b>	PLATE NUMBER <b>634.61</b>
		Sheet 1 of 1

Published Date: 2026

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File - ...Section C Standard Plates.dgn

Posted Speed Prior to Work (M.P.H.)	Spacing of Advance Warning Signs (Feet)		
	(A)	(B)	(C)
0 - 30	200		
35 - 40	350		
45 - 50	500		
55	750		
60 - 65	1000		
70 - 80	1000	1500	2640



SEE DETAIL A on Sheet 2 of 2

\*\* Speed appropriate for location.

- ⊙ ReflectORIZED Drum
- Channelizing Device

ROAD WORK AHEAD sign is only required in advance of the first lane closure.

High speed is defined as having a posted speed limit greater than 45 mph.

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**WORK ZONE SPEED REDUCTION FOR INTERSTATE AND HIGH SPEED MULTI-LANE HIGHWAYS**

PLATE NUMBER  
634.63

Sheet 1 of 2

Posted Speed Prior to Work (M.P.H.)	Spacing of Channelizing Devices (Feet) (G)	Taper Length (Feet) (L)
0 - 30	25	180
35 - 40	25	320
45	25	600
50	50 *	600
55	50 *	660
60 - 65	50 *	780
70 - 80	50 *	960

- \* Spacing is 40' for 42" cones.
- \*\* Speed appropriate for location.

\*\*\* Use speed limit designated for the condition when workers are present in the work space. Signs will be covered or removed when workers are not present.

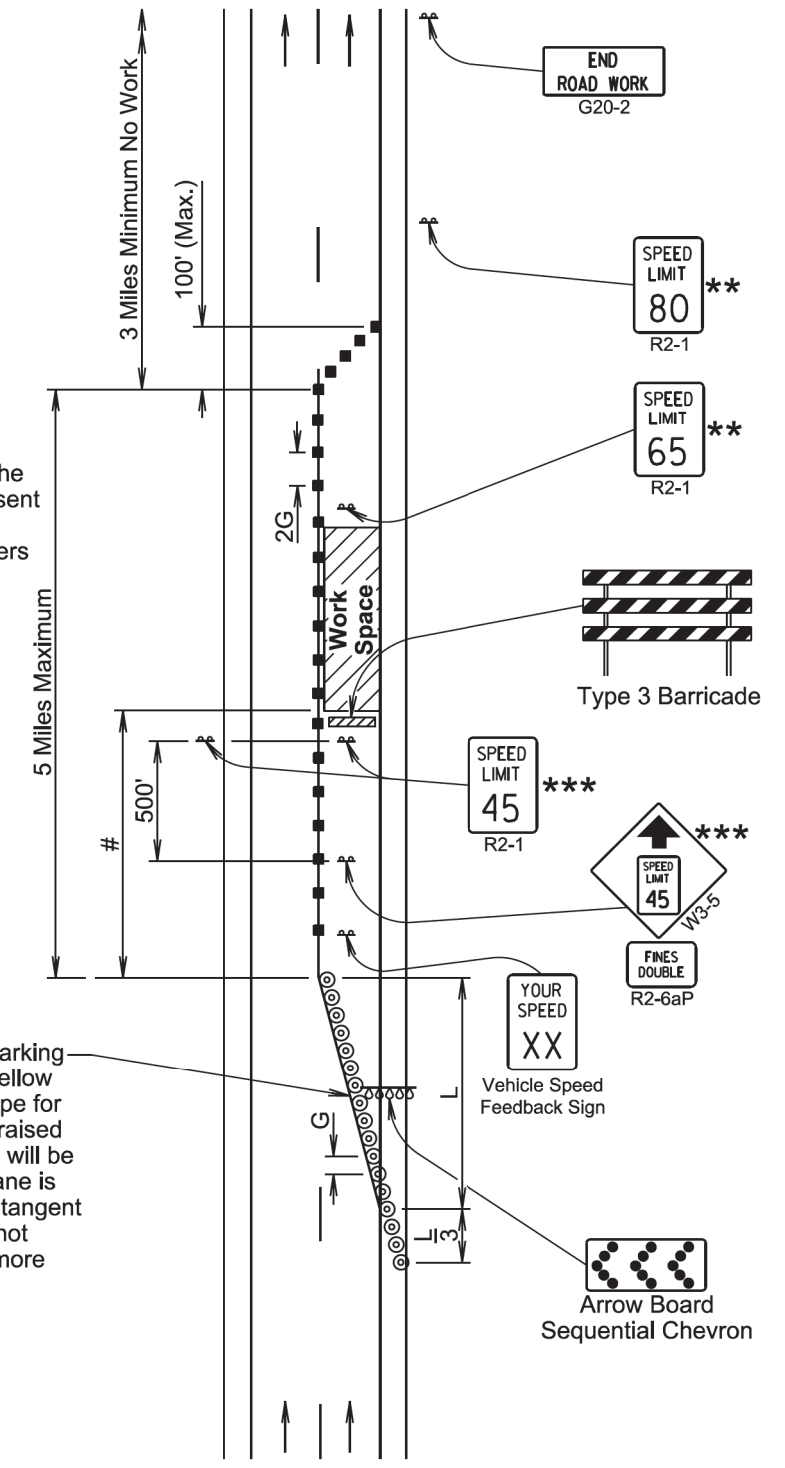
- ⊙ ReflectORIZED Drum
- Channelizing Device

# The Work Space will be a minimum of 500' from the end of the taper.

The channelizing devices will be 42" cones or drums.

42" cones may be used in place of the drums shown in the taper if setup will not be used during night time hours.

4" white temporary pavement marking tape for right lane closures, 4" yellow temporary pavement marking tape for left lane closures, or temporary raised pavement markers at 5' spacing will be installed in the taper when the lane is closed overnight, and along the tangent section where the skip lines do not exist and the lane is closed for more than 3 days.



DETAIL A

April 8, 2025

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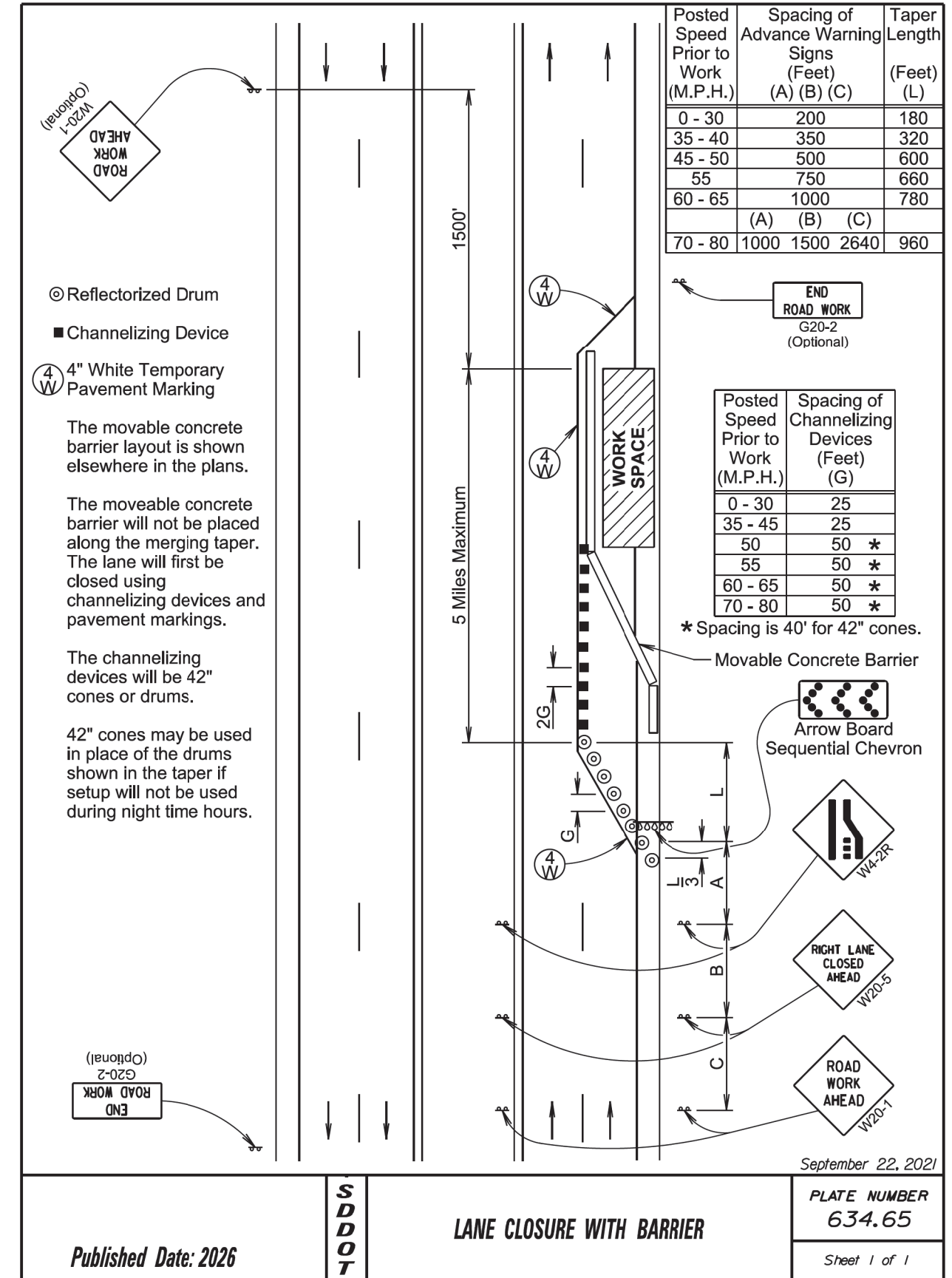
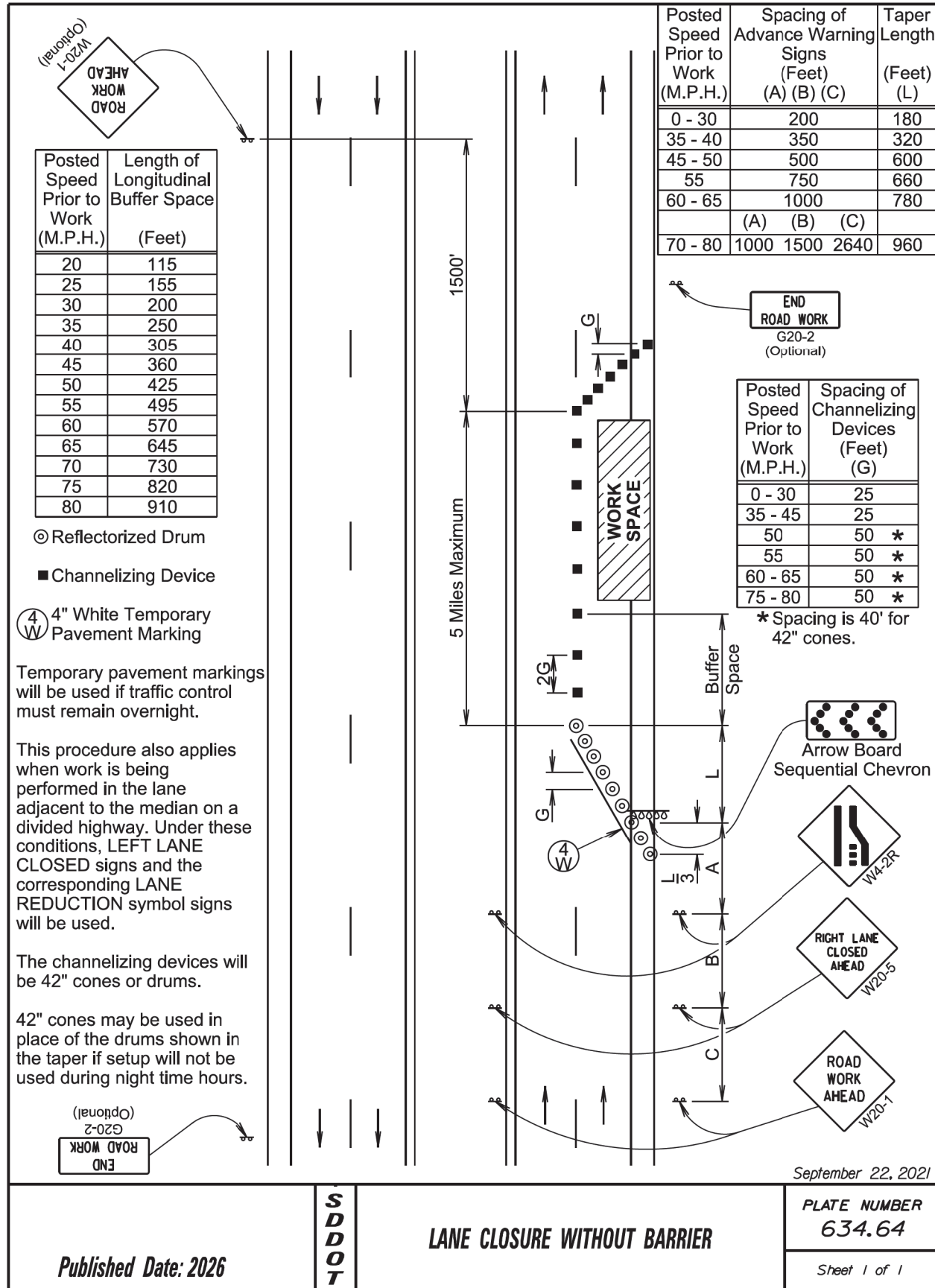
S  
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**WORK ZONE SPEED REDUCTION FOR INTERSTATE AND HIGH SPEED MULTI-LANE HIGHWAYS**

PLATE NUMBER  
634.63

Sheet 2 of 2

Plot Scale - 1:1



Plotted From - Marcus, Martinez

File - ...Section C Standard Plates.dgn



Plot Scale - 1:1

Posted Speed Prior to Work (M.P.H.)	Spacing of Advance Warning Signs (Feet)		Taper Length (Feet) (L)
	(A)	(B)	
45 - 50	500		600
55	750		660
60 - 65	1000		780
	(A)	(B)	
70 - 80	1000	1500	1125

Posted Speed Prior to Work (M.P.H.)	Spacing of Channelizing Devices (Feet) (G)
0 - 30	25
35 - 45	25
50	50 *
55	50 *
60 - 80	50 *

\* Spacing is 40' for 42" cones.

■ Channelizing Device

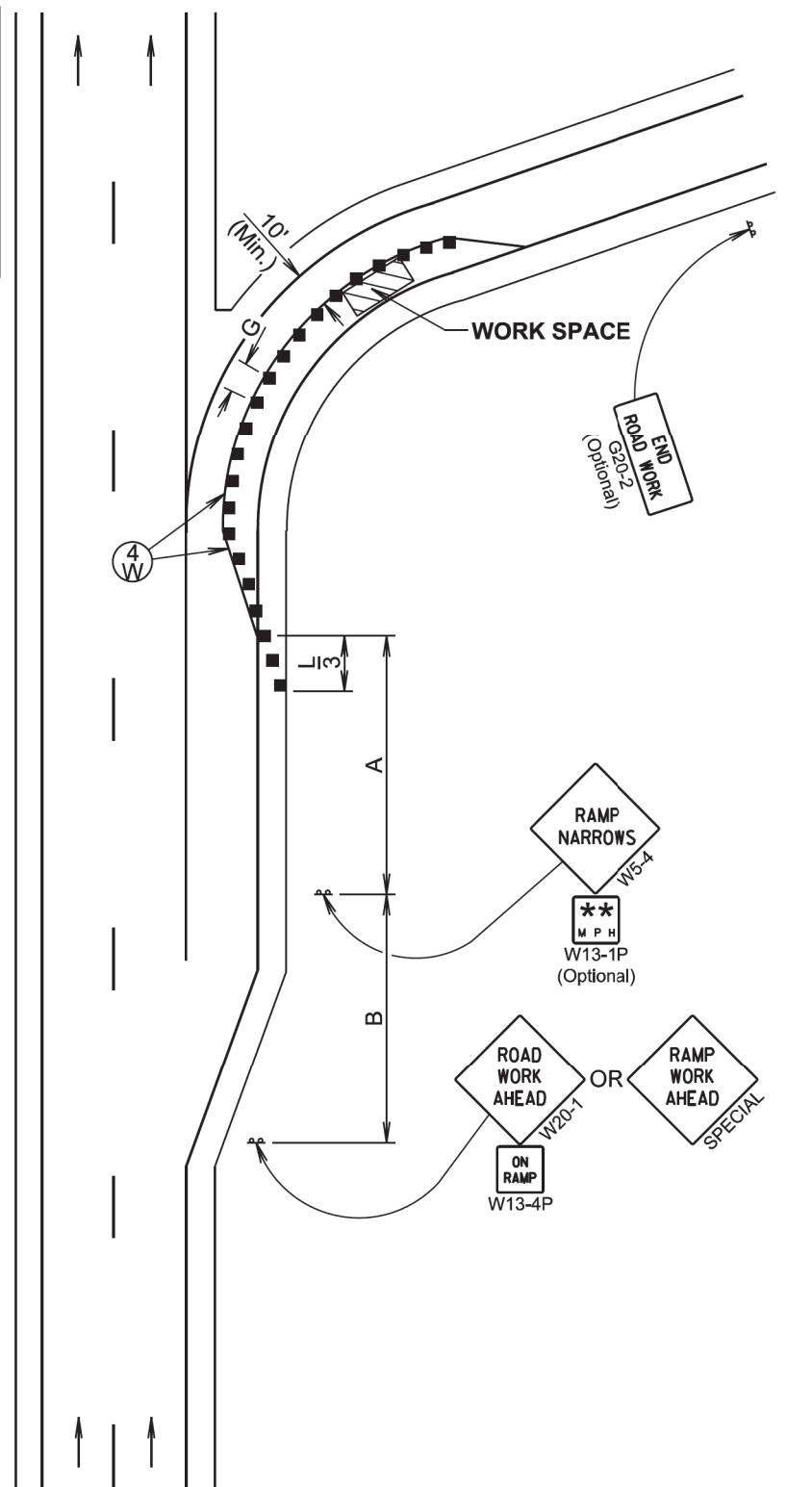
Ⓞ 4" White Temporary Pavement Marking

\*\* Need and safe speed to be determined by the Engineer.

Temporary pavement markings will be used if traffic control must remain overnight.

The channelizing devices will be drums or 42" cones if traffic control must remain overnight.

Truck off-tracking should be considered when determining whether the 10-foot minimum lane width is adequate.



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<b>S D D O T</b>	<b>PARTIAL EXIT RAMP CLOSURE</b>	PLATE NUMBER <b>634.69</b>
	Published Date: 2026	Sheet 1 of 1

Posted Speed Prior to Work (M.P.H.)	Spacing of Advance Warning Signs (Feet)			Taper Length (Feet) (L)
	(A)	(B)	(C)	
0 - 30	200			180
35 - 40	350			320
45 - 50	500			600
55	750			660
60 - 65	1000			780
	(A)	(B)	(C)	
70 - 80	1000	1500	2640	1125

Posted Speed Prior to Work (M.P.H.)	Spacing of Channelizing Devices (Feet) (G)
0 - 30	25
35 - 45	25
50	50 *
55	50 *
60 - 80	50 *

\* Spacing is 40' for 42" cones.

Ⓞ Reflectorized Drum

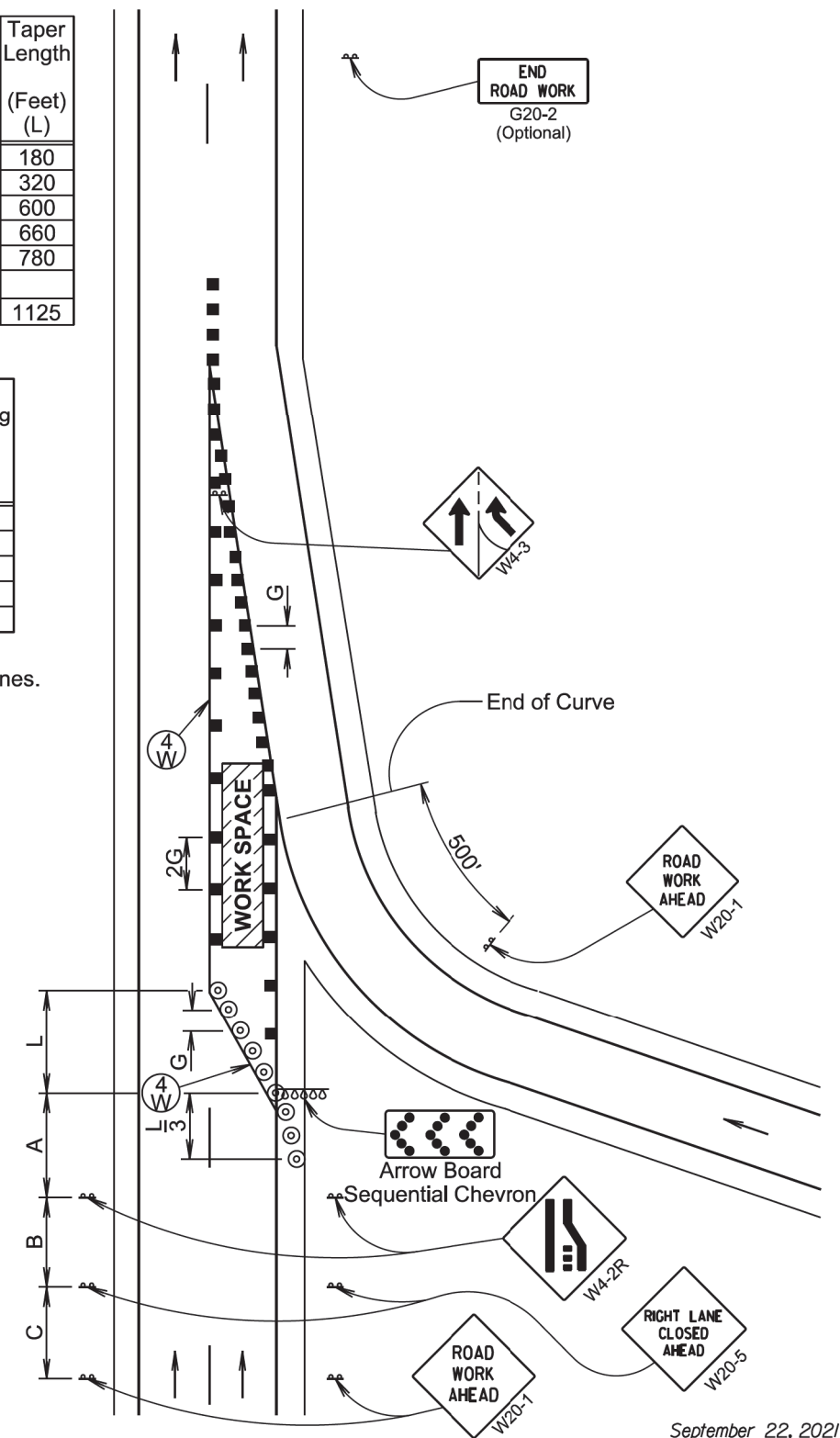
■ Channelizing Device

Ⓞ 4" White Temporary Pavement Marking

Temporary pavement markings will be used if traffic control must remain overnight.

The channelizing devices will be drums or 42" cones if traffic control must remain overnight.

42" cones may be used in place of the drums shown in the taper if setup will not be used during night time hours.



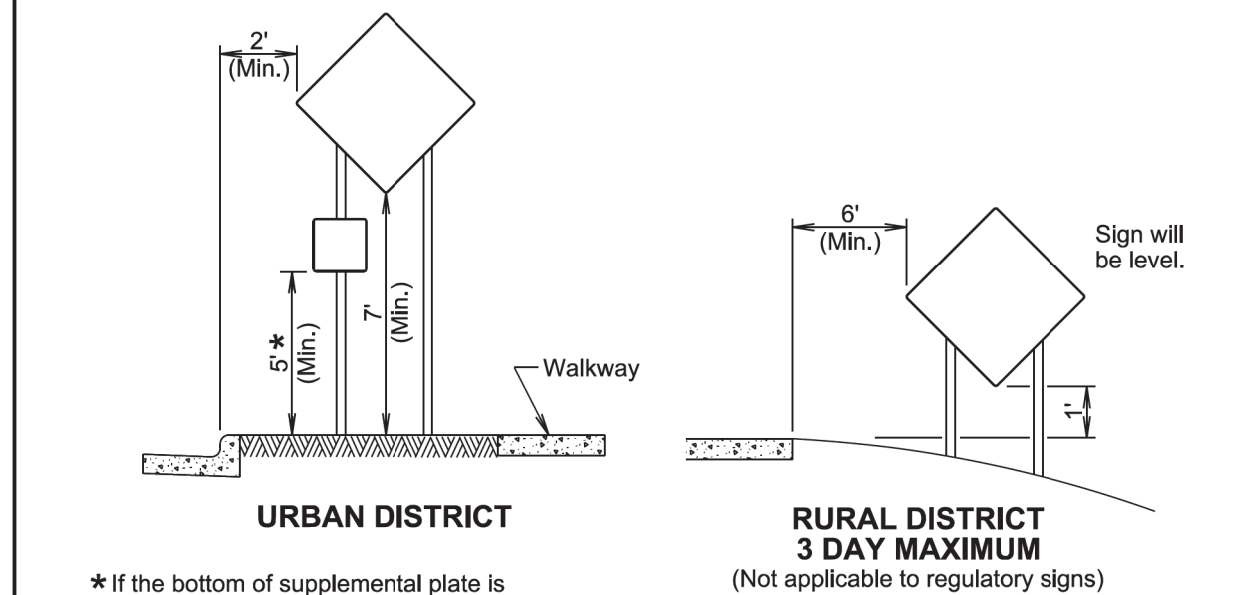
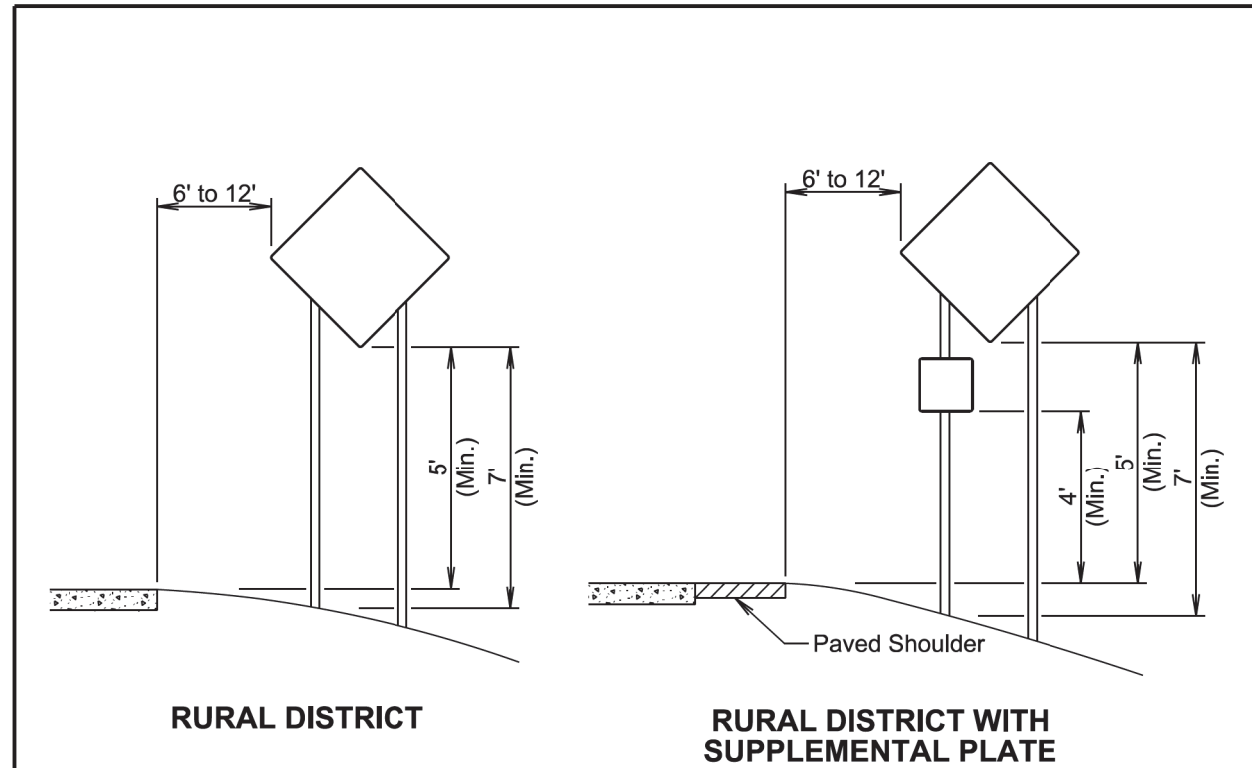
September 22, 2021

<b>S D D O T</b>	<b>WORK IN VICINITY OF ENTRANCE RAMP</b>	PLATE NUMBER <b>634.70</b>
	Published Date: 2026	Sheet 1 of 1

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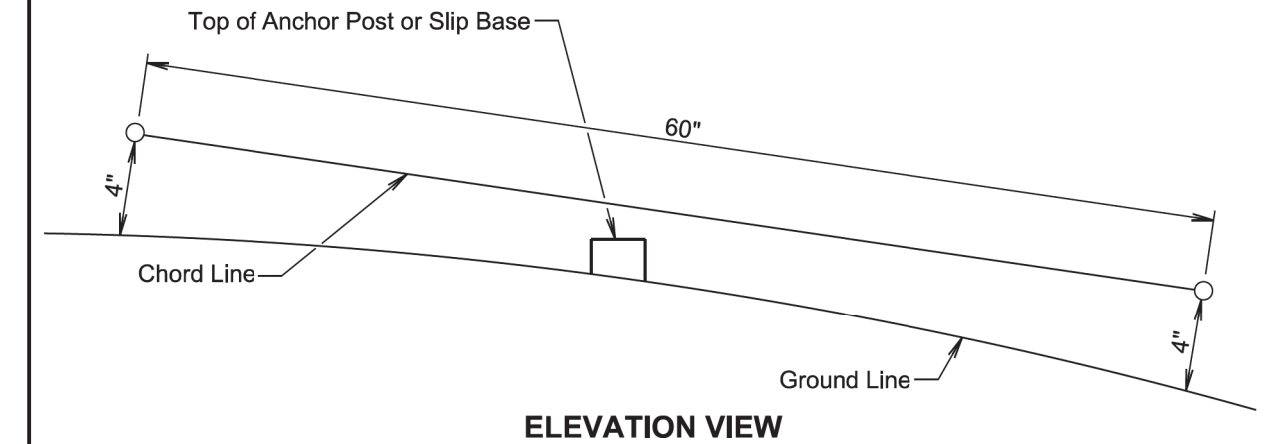
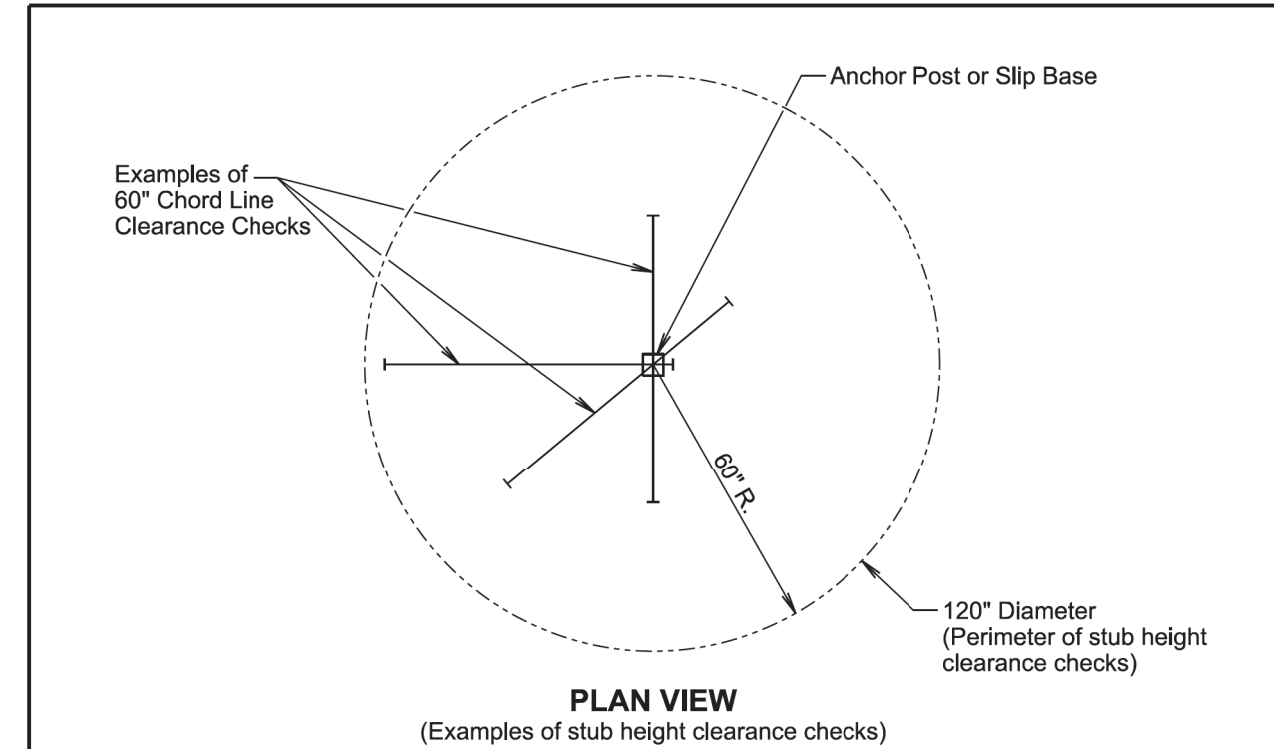
Plot Scale - 1:1



\* If the bottom of supplemental plate is mounted lower than 7 feet above a pedestrian walkway, the supplemental plate should not project more than 4" into the pedestrian facility.

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Published Date: 2026	S D D O T	<b>CRASHWORTHY SIGN SUPPORTS</b> (Typical Construction Signing)	PLATE NUMBER 634.85
			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.

The 4" stub height clearance is not necessary for U-channel lap splices where the support is designed to yield (bend) at the base.

January 22, 2021

Published Date: 2026	S D D O T	<b>BREAKAWAY SUPPORT STUB CLEARANCE</b>	PLATE NUMBER 634.99
			Sheet 1 of 1

Plotted From - Marcus, Martinez

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