

SECTION C: TRAFFIC CONTROL PLANS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT IM 0909(92)387	SHEET C1	TOTAL SHEETS C32
Plotting Date: 8/12/2024			

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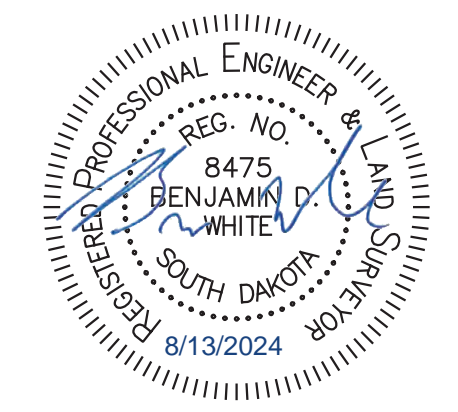
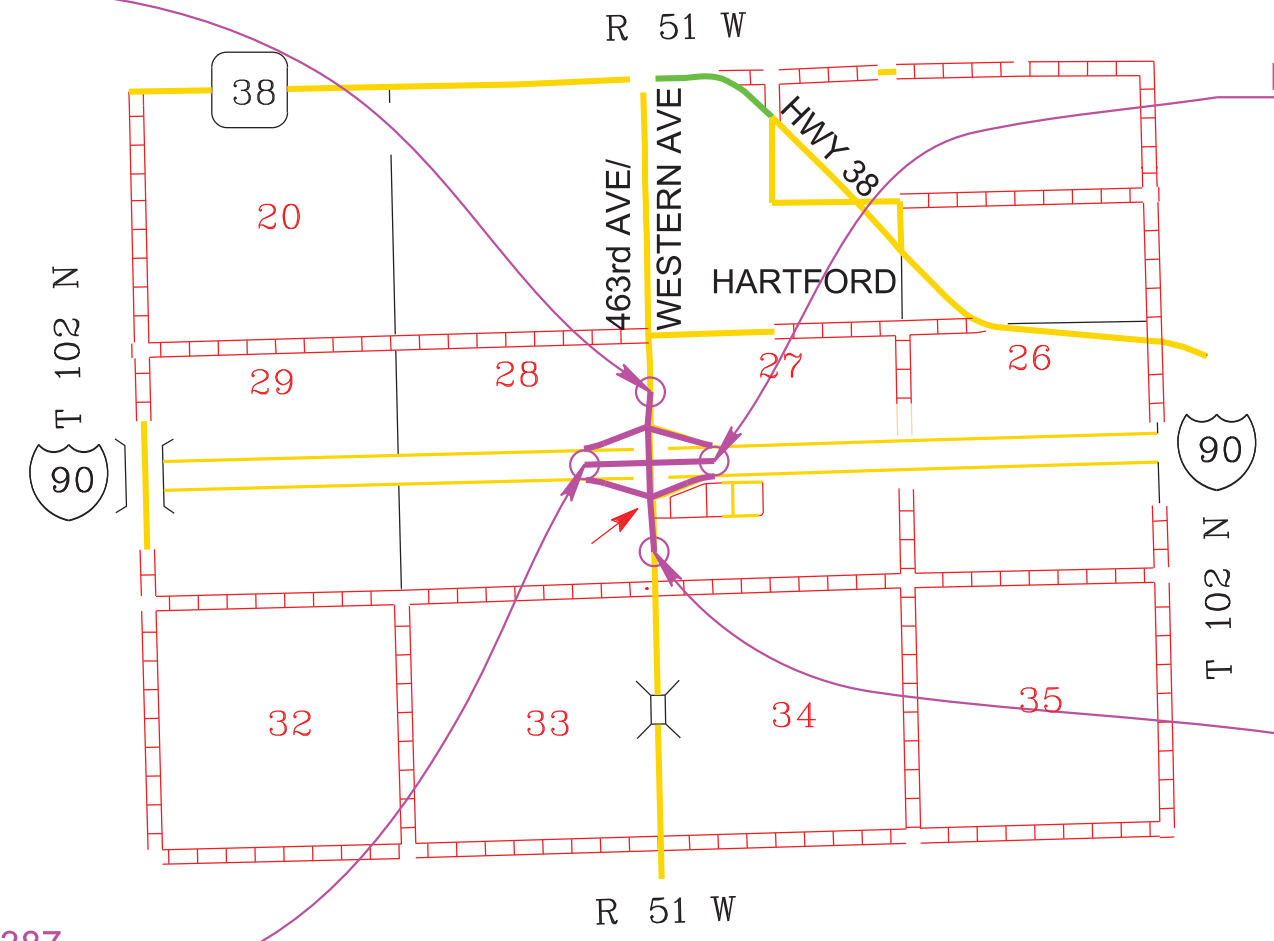


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SECTION C ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	200.0	Hour
634E0110	Traffic Control Signs	3,030.6	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0275	Type 3 Barricade	24	Each
634E0330	Temporary Raised Pavement Markers	29,410	Ft
634E0380	Tubular Marker	775	Each
634E0390	Replace Tubular Marker	100	Each
634E0420	Type C Advance Warning Arrow Board	6	Each
634E0525	Linear Delineation System Panel, Barrier Mounted	124	Each
634E0560	Remove Pavement Marking, 4" or Equivalent	9,500	Ft
634E0640	Temporary Pavement Marking	44,470	Ft
634E0700	Traffic Control Movable Concrete Barrier	124	Each
634E0705	Remove and Reset Traffic Control Movable Concrete Barrier	66	Each
634E0750	Temporary Concrete Barrier End Protection	4	Each
634E0760	Temporary Concrete Barrier End Protection Module Set or Repair Kit	1	Each
634E1215	Contractor Furnished Portable Changeable Message Sign	1	Each

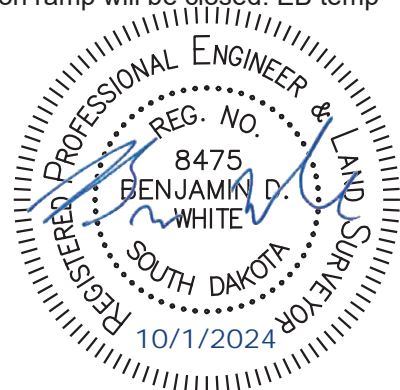
SEQUENCE OF OPERATIONS

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 project will be divided into 3 phases:

Phase 1

- o Construct Western Avenue Temporary Diversion
- o Shift traffic to Temporary Diversion
- o Begin working on west portion of new bridge
- o Install cross overs
- o Construct west side of Western Avenue roadway, storm sewer, inlets, sidewalk, and ADA ramps
- o Close ramps on west side of intersection and shift traffic to temporary ramps
- o Construct on ramps on west side of 463rd Ave
- o Construct temp loop ramps on west side of Western Ave
- o Set girders over EB Lanes. EB traffic up/down ramps overnight. Hard surfacing in place for new ramp
- o Set girders over WB Lanes at night. WB traffic crosses over to EB lanes for 2-way traffic. WB temp on ramp will be closed. EB temp off ramp may be closed
- o Complete west half of structure



Phase 2

- o Shift traffic to west side of Western Avenue and west side of new bridge. Shift interstate traffic to new temporary ramps
- o Construct east side of Western Avenue roadway, storm sewer, inlets, sidewalk, and ADA ramps
- o Remove portion of structure over EB Lanes. EB traffic up/down ramps overnight
- o Remove remaining structure over WB Lanes at night. WB traffic crosses over to EB lanes for 2-way traffic. WB temp off ramp will be closed. EB temp on ramp may be closed
- o Begin working on east portion of new bridge
- o Construct ramps on east side of 463rd Ave
- o Set girders over EB Lanes. EB traffic up/down ramps overnight. Hard surfacing in place for new ramp
- o Set girders over WB Lanes at night. WB traffic crosses over to EB lanes for 2-way traffic. WB temp off ramp will be closed. EB temp off ramp may be closed
- o Finish Construction of East Portion of Bridge
- o Switch Traffic Back to Normal Ramps/Lanes
- o Remove Temp ramps on west side and misc cleanup / erosion control

Phase 3

- o Install lighting for the entire project. Install permanent signing for the entire project
- o Complete permanent seeding operations for the entire project

Temporary Crossovers Needed

- o 2 single crossovers to cross WB traffic to EB and back
 - o Approximate locations 535+00 & 566+00

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.

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

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

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

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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 (8:00 pm to 5:00 am) 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 Department.

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".

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

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 1/4 mile.

Lane closures will be limited to 5 miles in length. The distance between the closest points of any two-lane closures will be at least 3 miles, excluding tapers.

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.

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 Department 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 or as shown in the plans. 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 Pavement Markings will be temporary paint, temporary pavement marking tape, or temporary raised pavement markers. Temporary paint will not be allowed on permanent or new PCCP surfacing.

Payment will be at the equivalent length of 4" pavement marking. Equivalent lengths are shown in the table below. The contract unit price per foot for "Temporary Pavement Markings" will be full compensation for furnishing, installing, maintaining, and removing the temporary markings.

Item	Quantity as Measured	4" Equivalent
4" Pavement Marking	1 Ft	1 Ft
8" Pavement Marking	1 Ft	2 Ft
12" Pavement Marking	1 Ft	3 Ft
24" Pavement Marking	1 Ft	6 Ft
Pavement Marking Area	1 SqFt	3 Ft
Pavement Marking Arrow	1 Each	250 Ft
Pavement Marking Message	1 Word	500 Ft

Locations	Length (Ft)
Western – Phase 1	9,510
I90 Lanes – Phase 1	10,040
Exit 387 Temporary Ramps – Phase 1	3,740
Western – Phase 2	6,160
I90 Lanes – Phase 2	8,450
Exit 387 Temporary Ramps – Phase 2	3,570
Girder Setting (Diverted to Ramps)	3,000
Total =	44,470

TEMPORARY RAISED PAVEMENT MARKERS

Temporary Raised Pavement Markers will be used on the mainline centerline and closure tapers. Temporary Raised Pavement Markers will not be used for white temporary edge lines for two-way traffic. Spacing of Temporary Raised Pavement Markers will be 5 feet.

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.

The Contractor will remove and properly dispose of the Temporary Raised Pavement Markers. Method of removal will be nondestructive to the road surface.

All costs for furnishing, installing, maintaining, and removing of the Temporary Raised Pavement Markers will be included in the contract unit price per foot for "Temporary Raised Pavement Markers".

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 Minnehaha 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.

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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 480 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.

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

TYPE C ADVANCE WARNING ARROW BOARD

The Type C Advance Warning Arrow Board will be used to display the traffic merging arrows shown as "Arrow Panel" on the traffic control plan sheets. The board can be a standard advance warning arrow panel and does not need to have lead crystal display (LED) panels.

LIGHTING FOR NIGHTTIME WORK

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

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

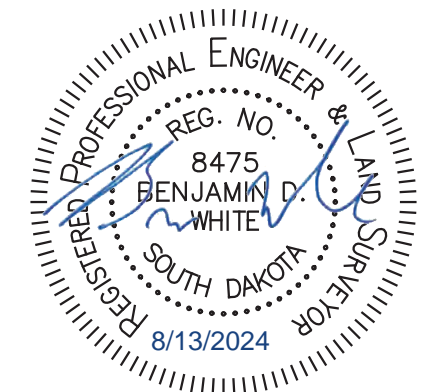
Light in conformance with Level I will be provided at the active workspaces.

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

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

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

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



TRAFFIC CONTROL MOVABLE CONCRETE BARRIERS

Concrete barriers will be provided by the State and are available for pickup from the SDDOT Sioux Falls Maintenance Yard located at 5316 W 60th St N in Sioux Falls. The barriers will be hauled back to the SDDOT Sioux Falls 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 Department.

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

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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.

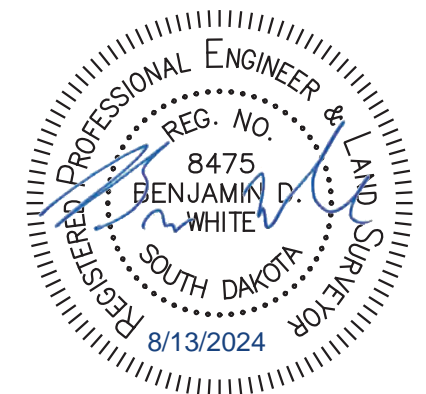
Maintaining the linear delineation system, including moving LDS panels from one side of the barrier to the other side of the barrier to match the applicable color of the nearest pavement marking will be incidental to the contract lump sum price for Traffic Control, Miscellaneous.

REMOVE PAVEMENT MARKING, 4" OR EQUIVALENT

Included in the Estimate of Quantities are 9,500 ft of "Remove Pavement Marking, 4" or Equivalent" to remove any existing edge lines or center lines on Western Ave & Interstate 90 that will conflict with the included traffic control details. Areas of removal will be marked by the Engineer. The Contractor will repair any damage to the pavement, pavement joints, or joint sealant for no additional payment and at no cost to the State.

All costs for materials, labor, and equipment necessary to remove the existing markings will be incidental to the contract unit price per foot for "Remove Pavement Marking, 4" or Equivalent".

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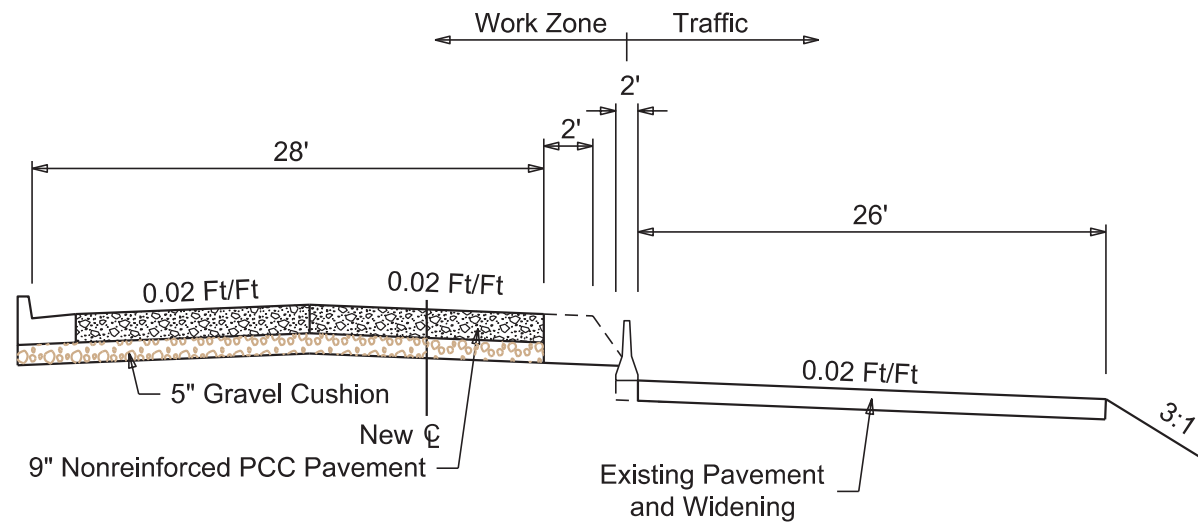


TRAFFIC CONTROL TYPICAL SECTIONS

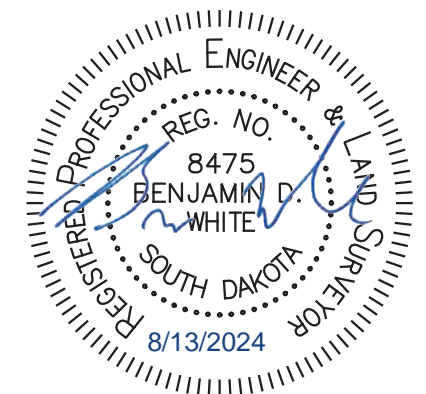
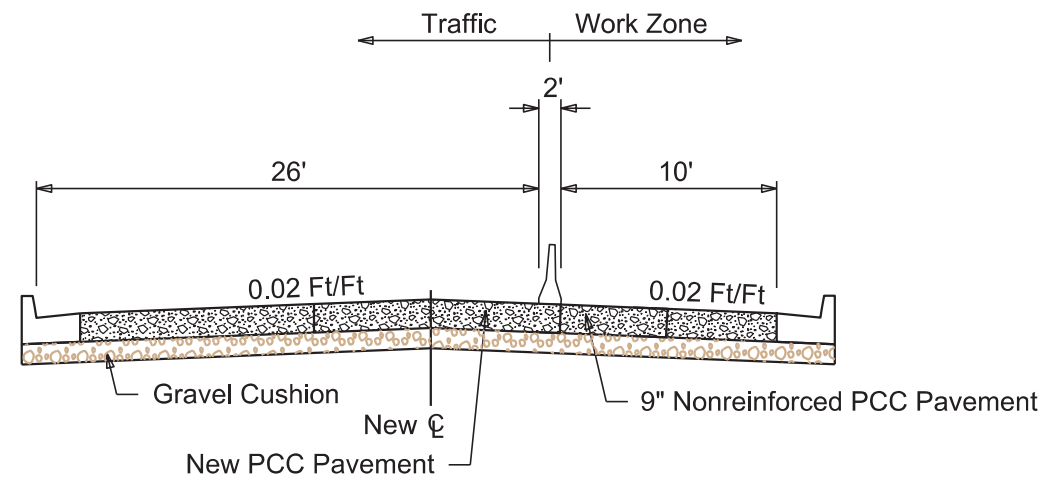
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PHASE 1 CONSTRUCTION



PHASE 2 CONSTRUCTION



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TRAFFIC CONTROL PHASE 1 CONSTRUCTION

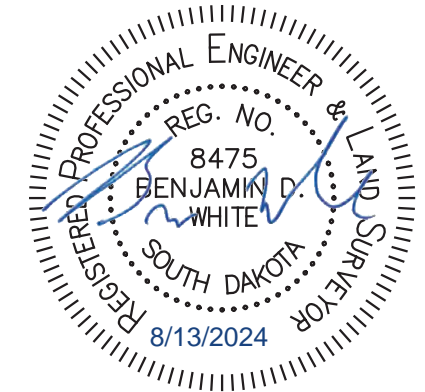
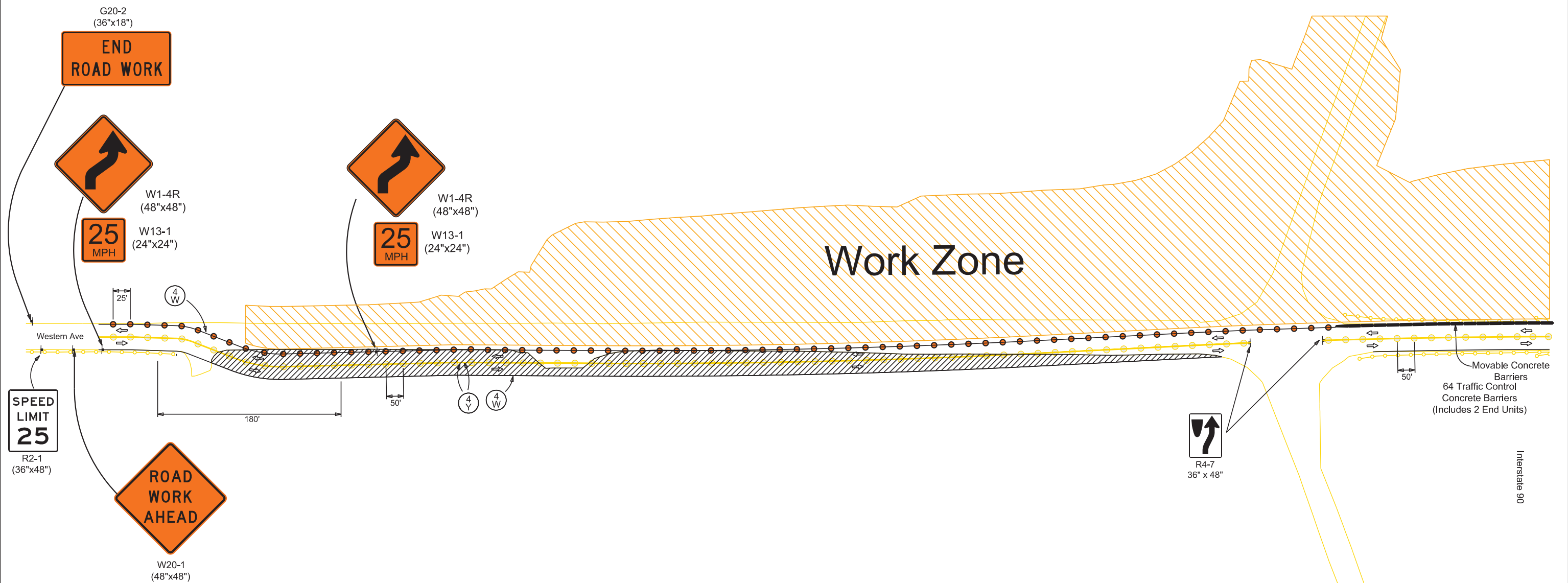
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TRAFFIC CONTROL PHASE 1 CONSTRUCTION

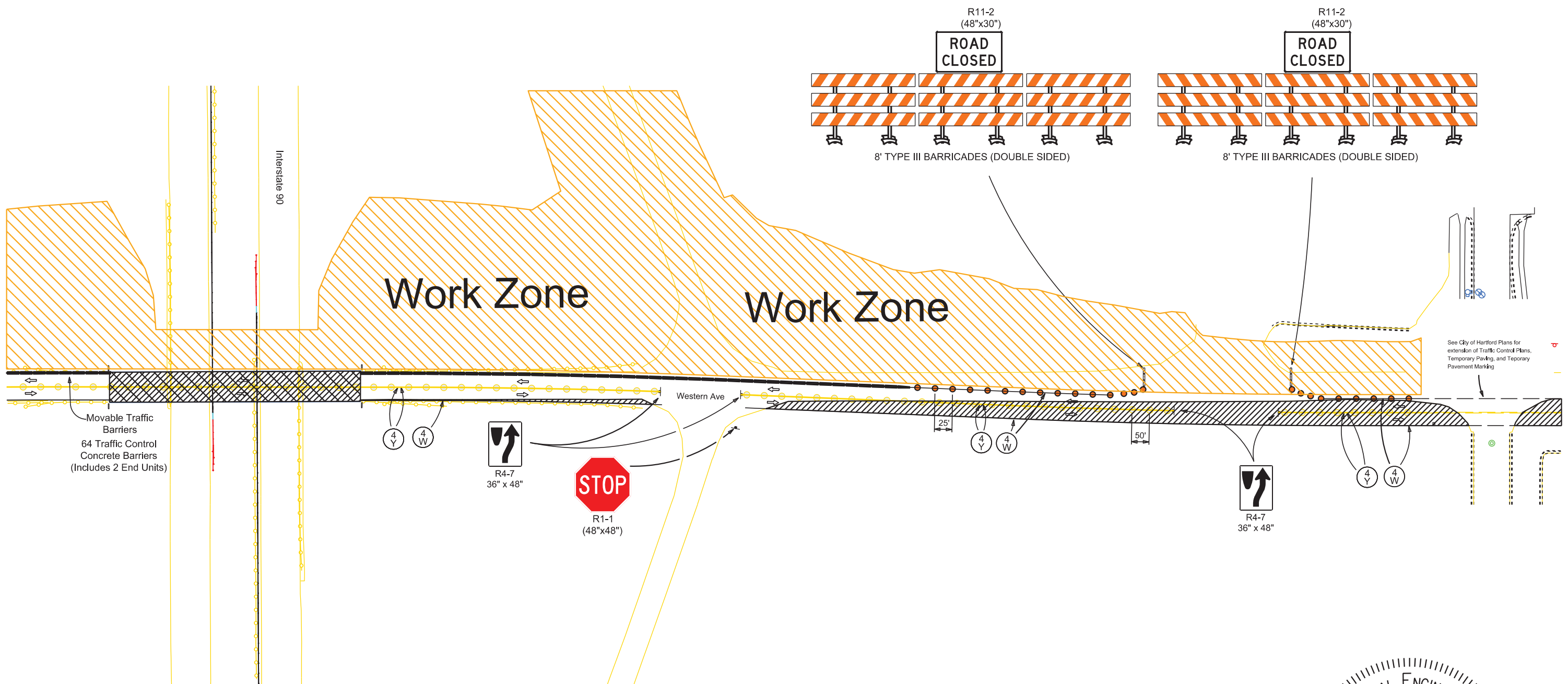
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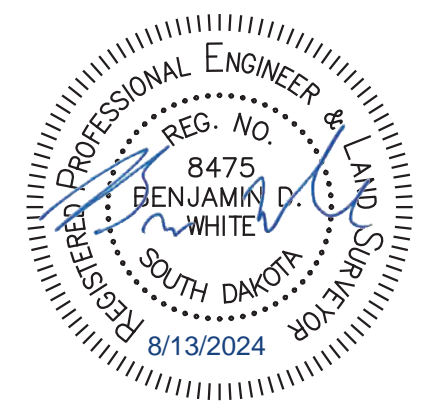
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- TUBULAR MARKER
- CHANNELIZING DEVICES
- YELLOW RAISED PAVEMENT MARKERS
- WHITE TEMPORARY PAVEMENT MARKERS
- TEMPORARY ASPHALT CONCRETE PAVING
(See Section F for more information)
- EXISTING BRIDGE



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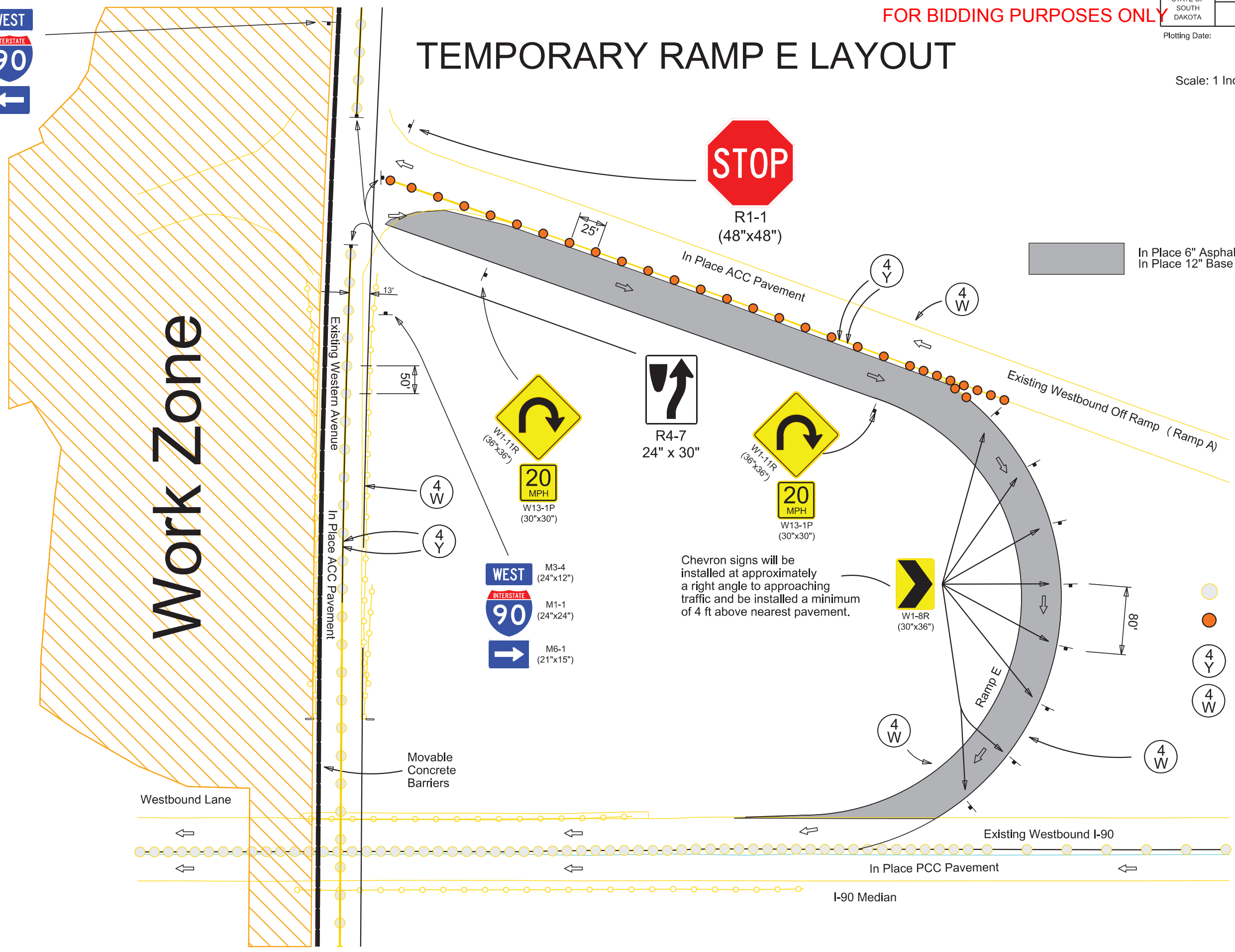
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TEMPORARY RAMP E LAYOUT

Scale: 1 Inch = 60 Feet



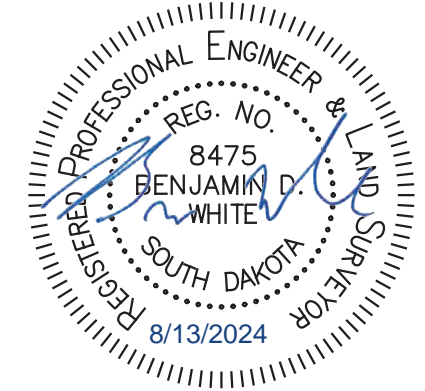
- M3-4 (24"x12") WEST
- M1-1 (24"x24") INTERSTATE 90
- M6-1 (21"x15") ←



In Place 6" Asphalt Concrete Composite and In Place 12" Base Course or Base Course, Salvaged

Chevron signs will be installed at approximately a right angle to approaching traffic and be installed a minimum of 4 ft above nearest pavement.

- TUBULAR MARKER
- CHANNELIZING DEVICES
- YELLOW RAISED PAVEMENT MARKERS
- WHITE TEMPORARY PAVEMENT MARKERS



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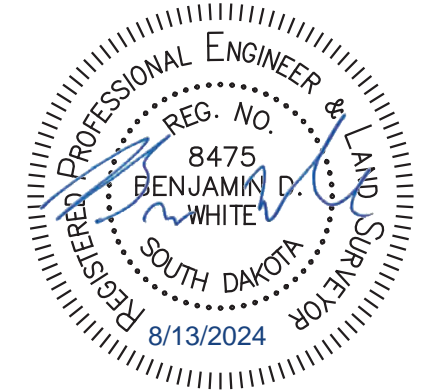
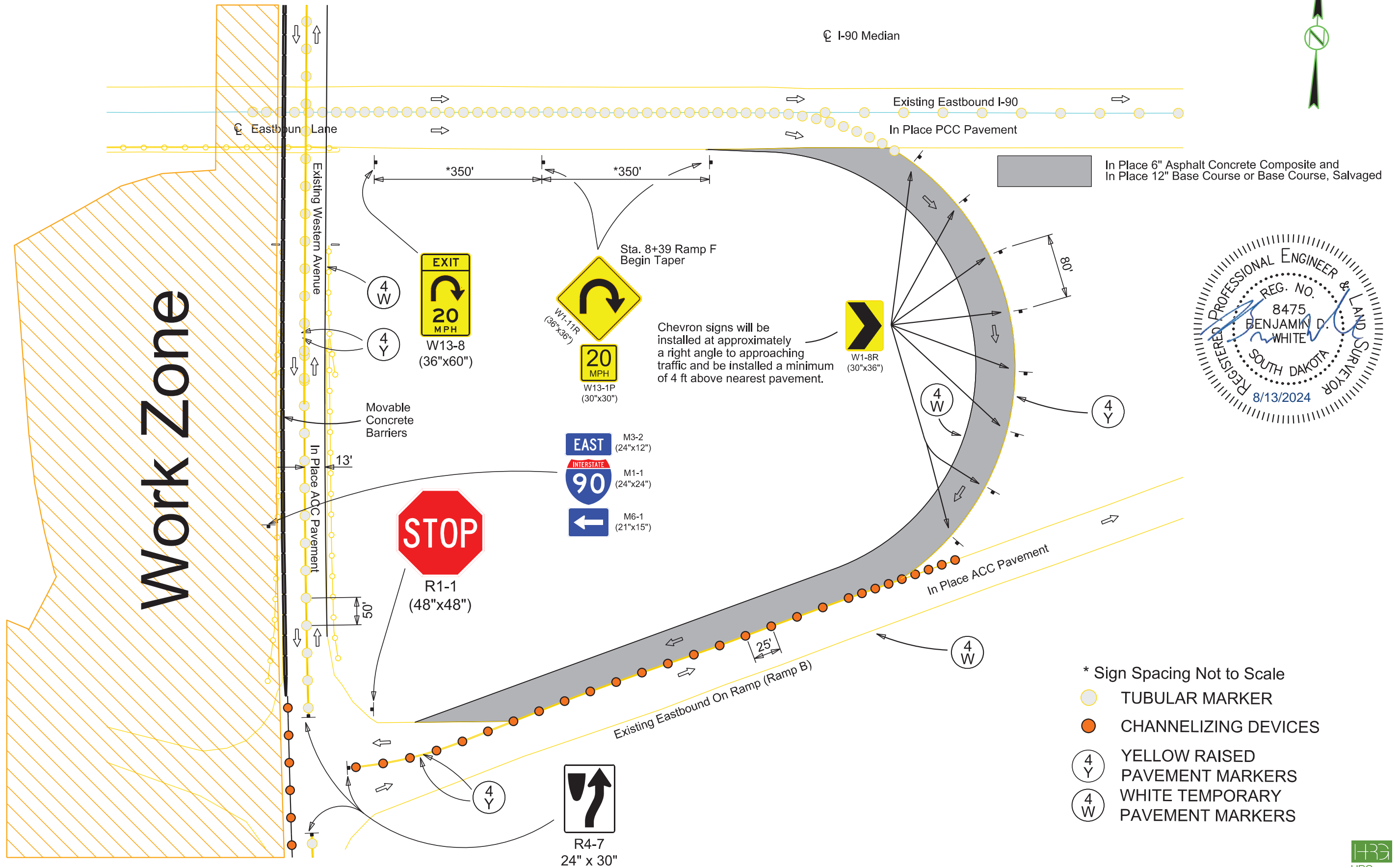
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TEMPORARY RAMP F LAYOUT

Scale: 1 Inch = 60 Feet



- * Sign Spacing Not to Scale
- TUBULAR MARKER
- CHANNELIZING DEVICES
- YELLOW RAISED PAVEMENT MARKERS
- WHITE TEMPORARY PAVEMENT MARKERS



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TRAFFIC CONTROL PHASE 1 CONSTRUCTION

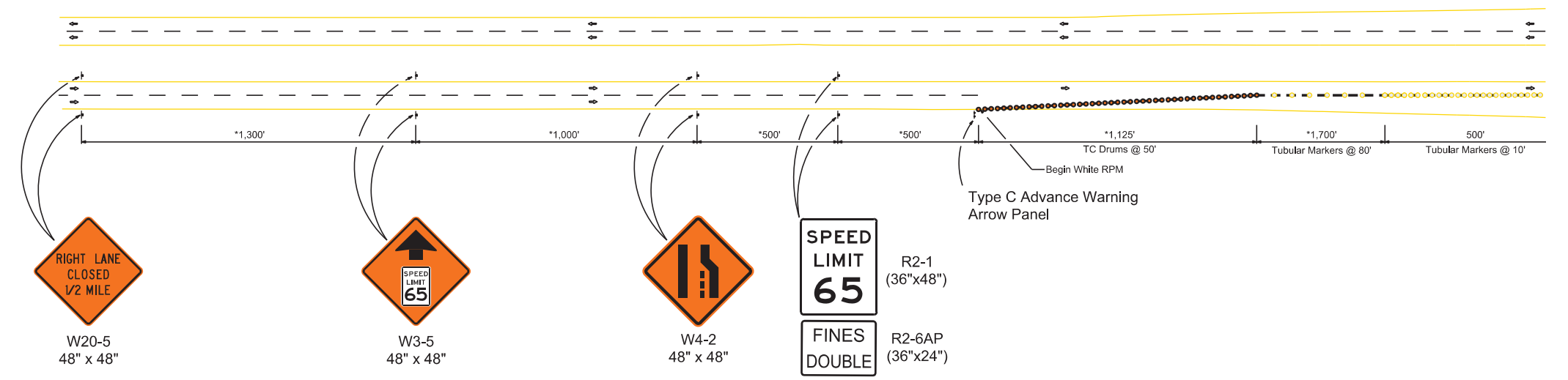
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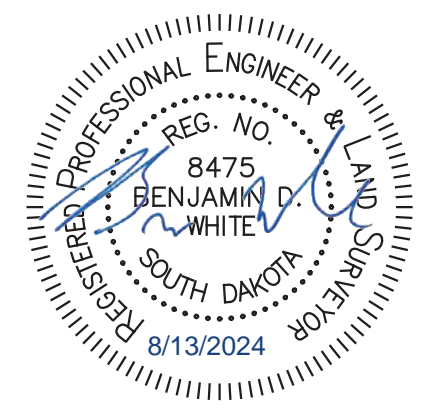
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- * Sign Spacing Not to Scale
- TUBULAR MARKER
- CHANNELIZING DEVICES

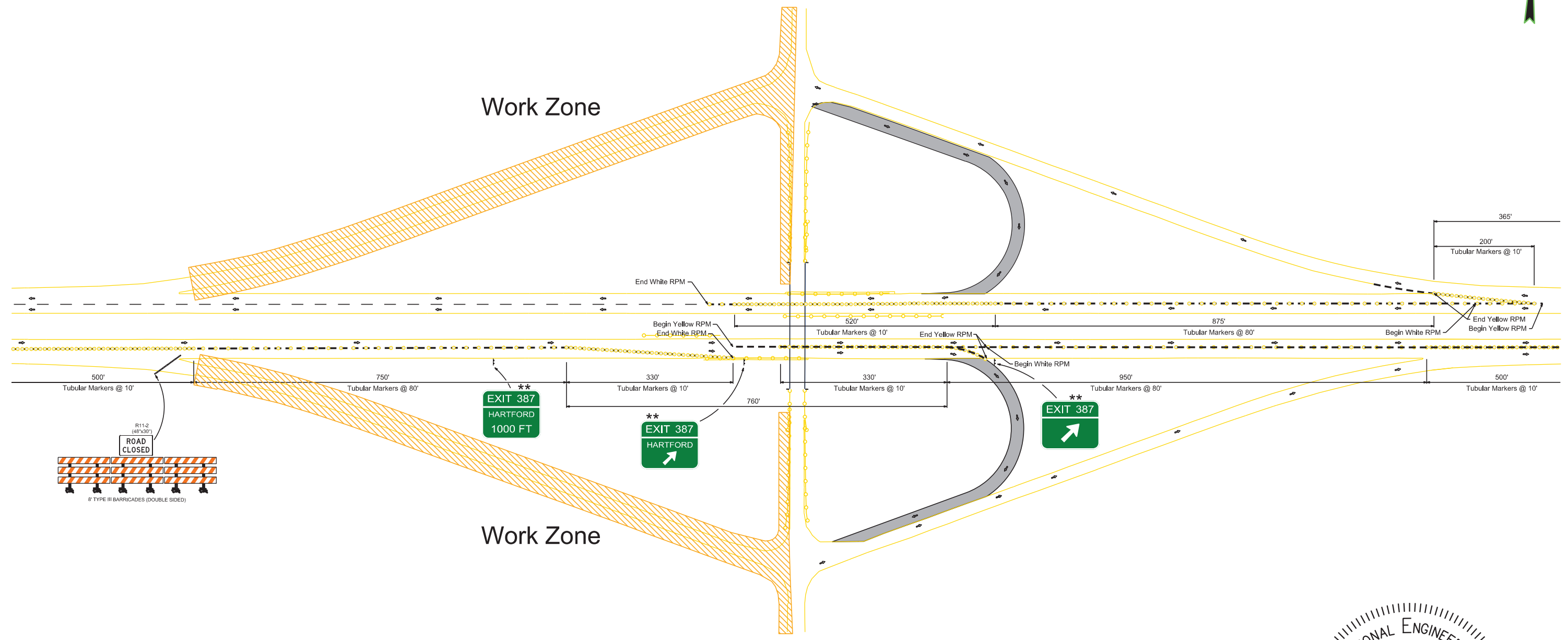


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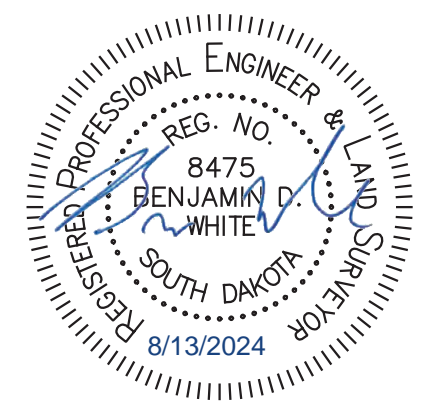
TRAFFIC CONTROL PHASE 1 CONSTRUCTION

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- * Sign Spacing Not to Scale
- ** Green Exit Signing to be Spaced at 500 Ft
- TUBULAR MARKER
- CHANNELIZING DEVICES



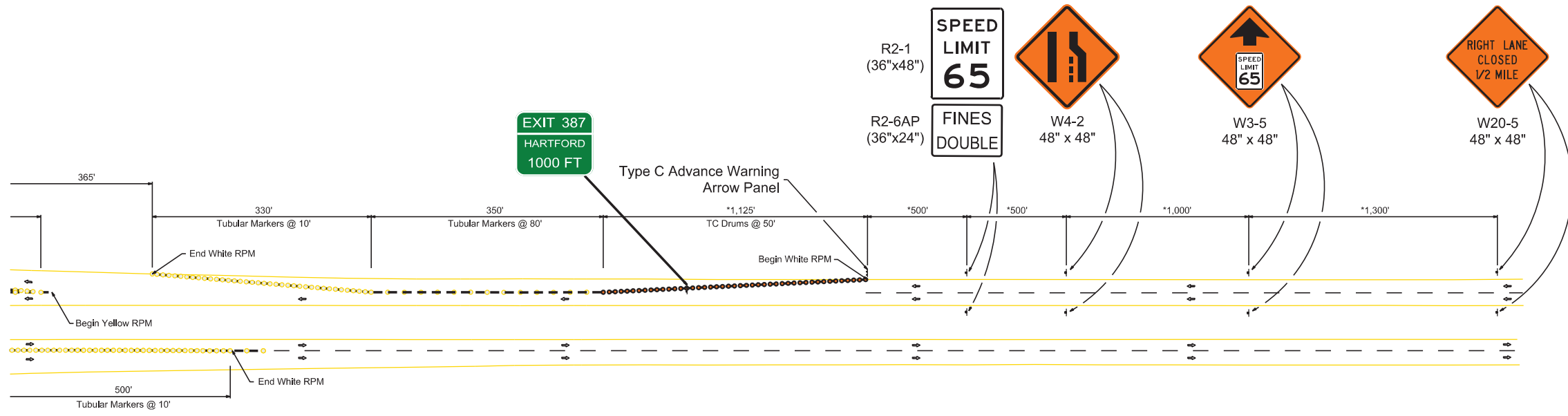
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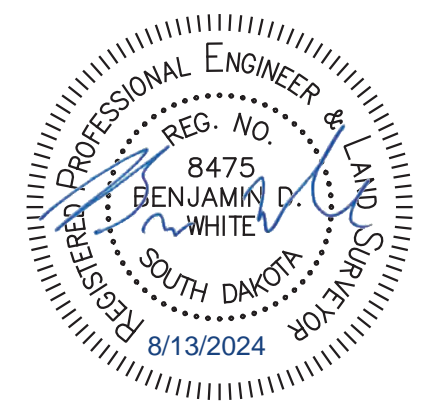
TRAFFIC CONTROL PHASE 1 CONSTRUCTION

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT IM 0909(92)387	SHEET C12	TOTAL SHEETS C32
Plotting Date: 8/12/2024			



- * Sign Spacing Not to Scale
- TUBULAR MARKER
- CHANNELIZING DEVICES



Plot Scale - 1:200

Plotted From - byrce.steffen

File - ...I\Design\0608_TrafficControl.dgn

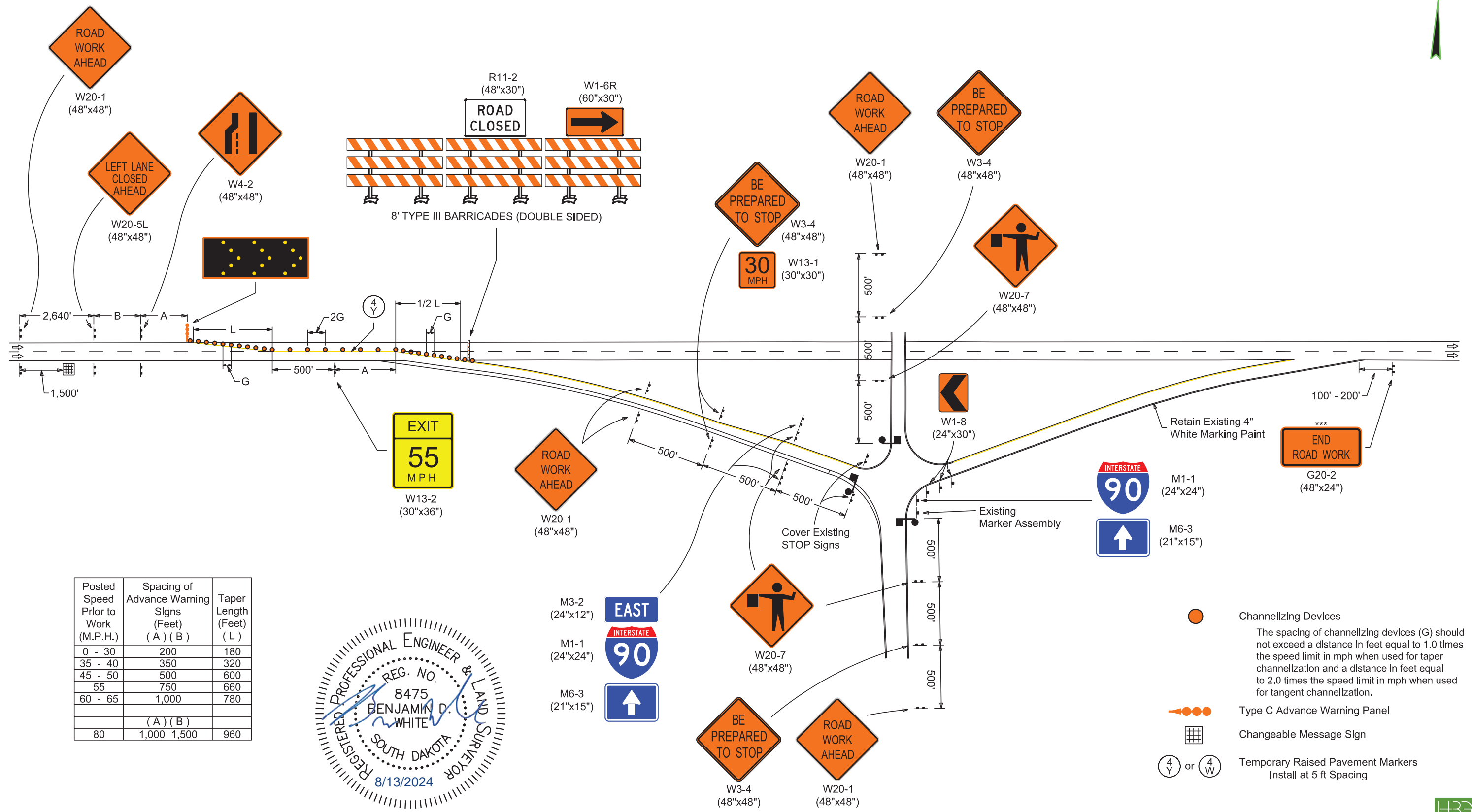
TRAFFIC CONTROL

BRIDGE RECONSTRUCTION

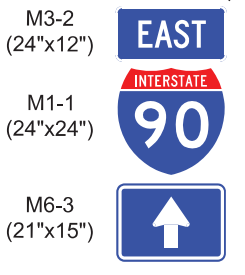
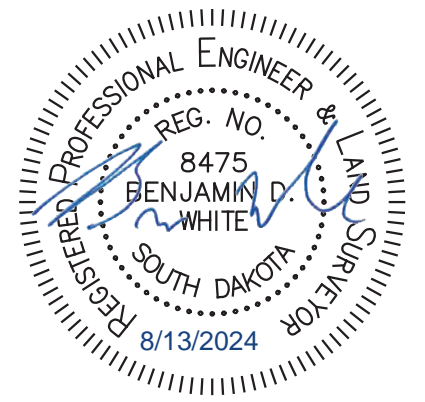
INTERSTATE TRAFFIC DIVERTED TO RAMPS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0909(92)387	C13	C32
Plotting Date:		8/12/2024	



Posted Speed Prior to Work (M.P.H.)	Spacing of Advance Warning Signs (Feet) (A) (B)	Taper Length (Feet) (L)
0 - 30	200	180
35 - 40	350	320
45 - 50	500	600
55	750	660
60 - 65	1,000	780
	(A) (B)	
80	1,000 1,500	960



TRAFFIC CONTROL PHASE 2 CONSTRUCTION

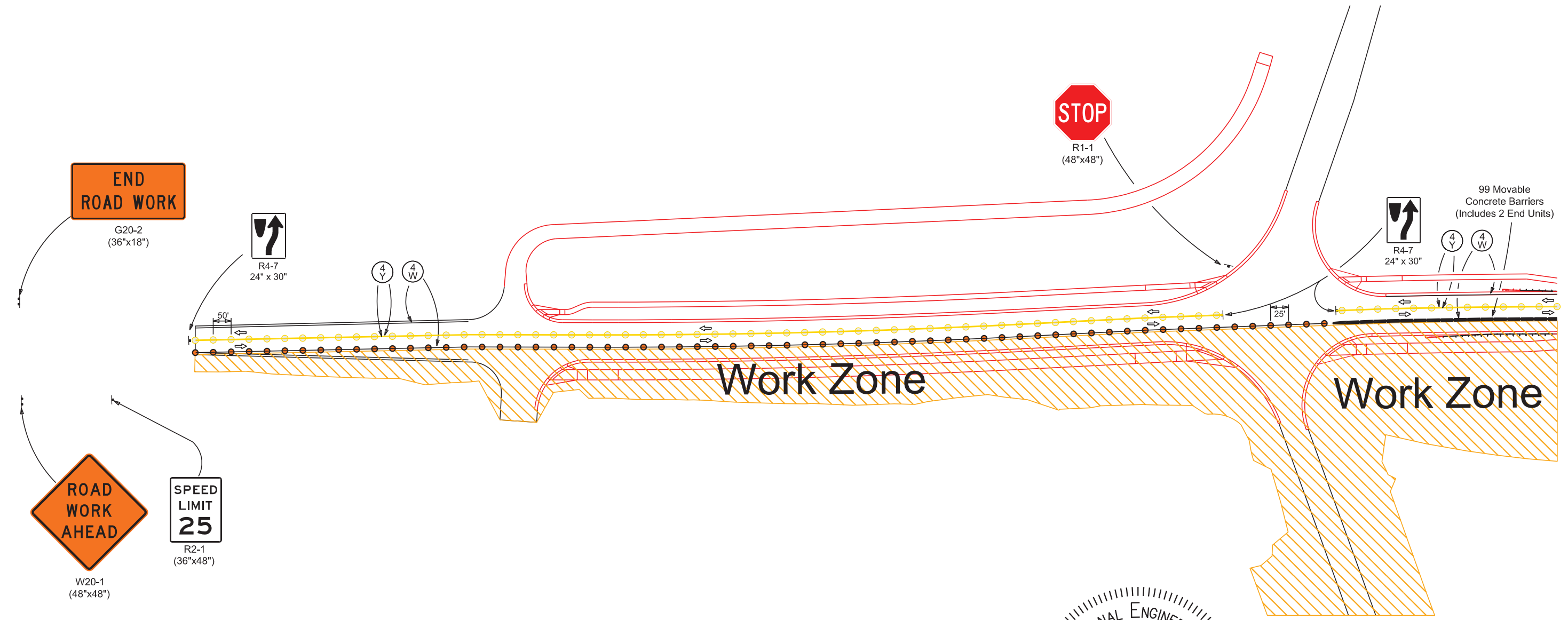
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT IM 0909(92)387	SHEET C14	TOTAL SHEETS C32
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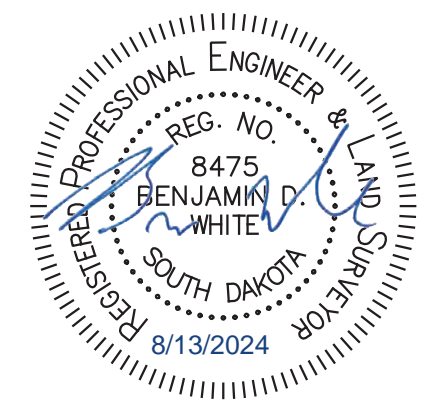
Plotting Date: 8/12/2024



Plot Scale - 1:100
Plotted From - bryce.steffen



- TUBULAR MARKER
- CHANNELIZING DEVICES
- YELLOW RAISED PAVEMENT MARKERS
- WHITE TEMPORARY PAVEMENT MARKERS



File - ...Design\0608_TrafficControl.dgn

TRAFFIC CONTROL PHASE 2 CONSTRUCTION

FOR BIDDING PURPOSES ONLY

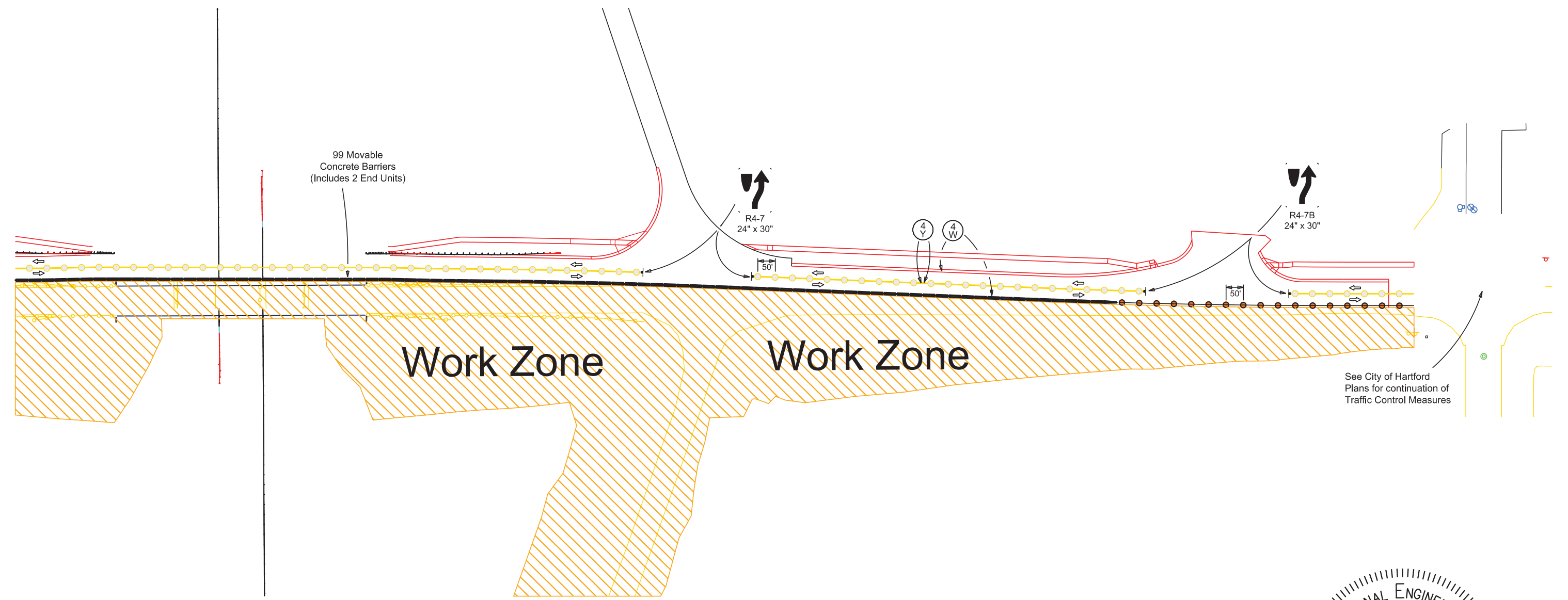
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0909(92)387	C15	C32

Plotting Date: 8/12/2024



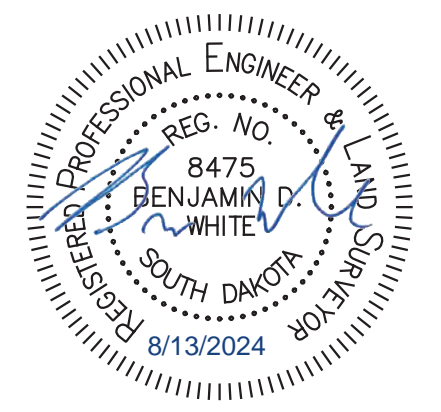
Plot Scale - 1:100

Plotted From - bryce.steffen



- TUBULAR MARKER
- CHANNELIZING DEVICES
- YELLOW RAISED PAVEMENT MARKERS
- WHITE TEMPORARY PAVEMENT MARKERS

See City of Hartford Plans for continuation of Traffic Control Measures



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FOR BIDDING PURPOSES ONLY

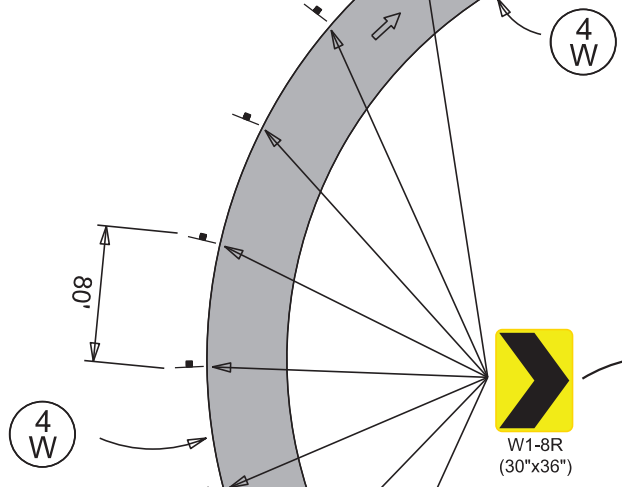
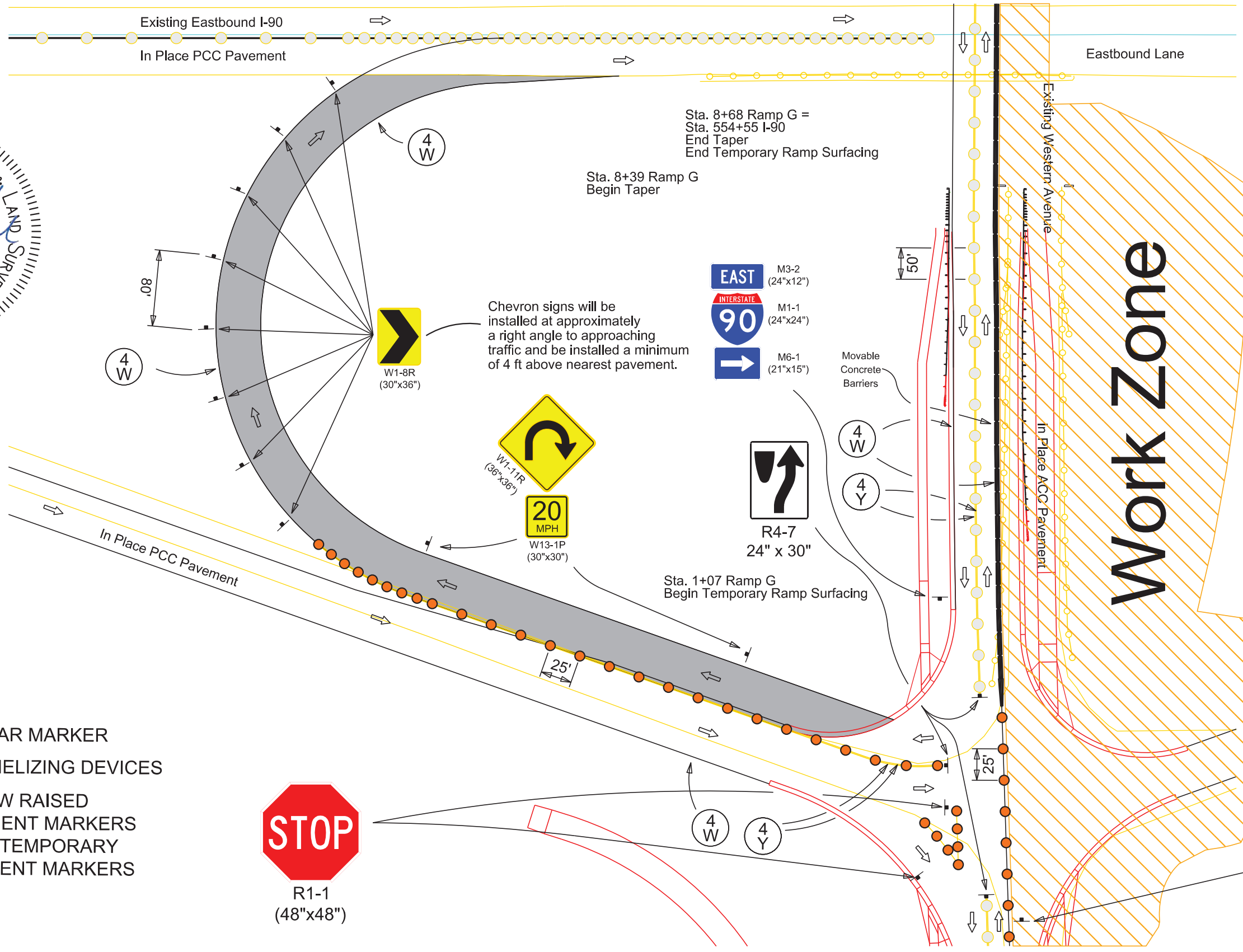
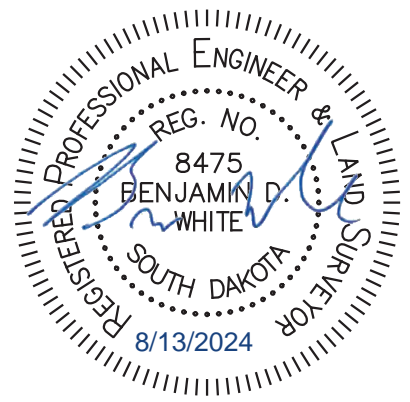
STATE OF SOUTH DAKOTA	PROJECT IM 0909(92)387	SHEET C16	TOTAL SHEETS C32
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Plotting Date: 8/12/2024

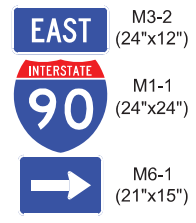
Scale: 1 Inch = 60 Feet





TEMPORARY RAMP G LAYOUT

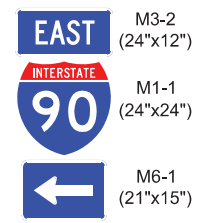
 In Place 6" Asphalt Concrete Composite and
 In Place 12" Base Course or Base Course, Salvaged



Chevron signs will be installed at approximately a right angle to approaching traffic and be installed a minimum of 4 ft above nearest pavement.



-  TUBULAR MARKER
-  CHANNELIZING DEVICES
-  YELLOW RAISED PAVEMENT MARKERS
-  WHITE TEMPORARY PAVEMENT MARKERS



Plot Scale - 1:60

Plotted From - bryce.steffen

File - ...I:\design\06068_TrafficControl.dgn

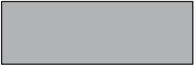
FOR BIDDING PURPOSES ONLY

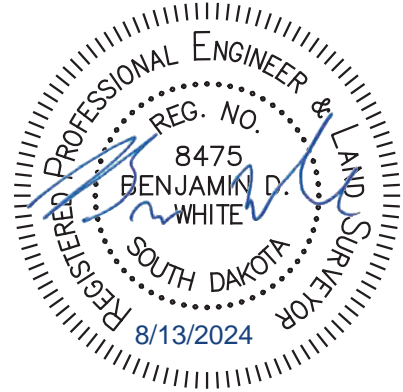
STATE OF SOUTH DAKOTA	PROJECT IM 0909(92)387	SHEET C17	TOTAL SHEETS C32
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Plotting Date: 8/12/2024

TEMPORARY RAMP H LAYOUT

Scale: 1 Inch = 60 Feet

 In Place 6" Asphalt Concrete Composite and
In Place 12" Base Course or Base Course, Salvaged



R4-7
24" x 30"

4 W

4 Y

Sta. 9+74 Ramp H
End Temporary Ramp Surfacing







R1-1
(48"x48")

Chevron signs will be installed at approximately a right angle to approaching traffic and be installed a minimum of 4 ft above nearest pavement.



W1-8R
(30"x36")

0.8'

- * Sign Spacing Not to Scale
-  TUBULAR MARKER
-  CHANNELIZING DEVICES
-  YELLOW RAISED PAVEMENT MARKERS
-  WHITE TEMPORARY PAVEMENT MARKERS

4 W

Sta. 2+00 Ramp H
End Taper

4 Y



W1-11R
(36"x36")

20 MPH

W13-1P
(30"x30")



W13-8
(36"x60")

Sta. 1+56 Ramp H = _____
Sta. 554+48 I-90
Begin Taper
Begin Temporary Ramp Surfacing

*350'

*350'

4 W




4 Y

50'

Existing Westbound I-90
In Place PCC Pavement

Westbound Lane

Work Zone

-  M3-4 (24"x12")
-  M1-1 (24"x24")
-  M6-1 (21"x15")



Plot Scale - 1:60

Plotted From - bryce.steffen

File - ...I:\design\06068_TrafficControl.dgn

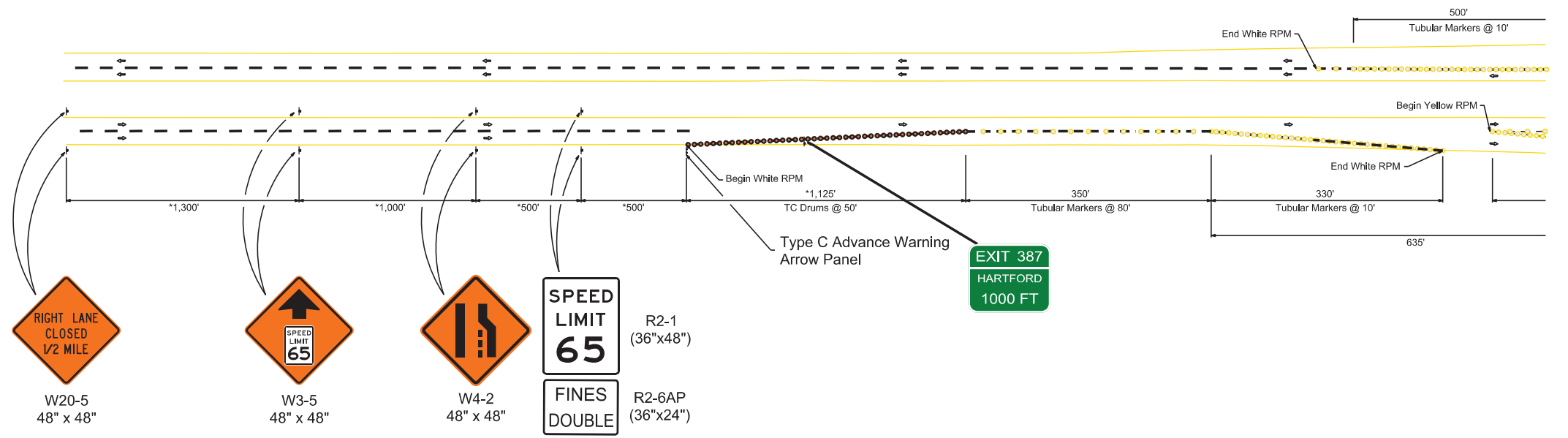


TRAFFIC CONTROL PHASE 2 CONSTRUCTION

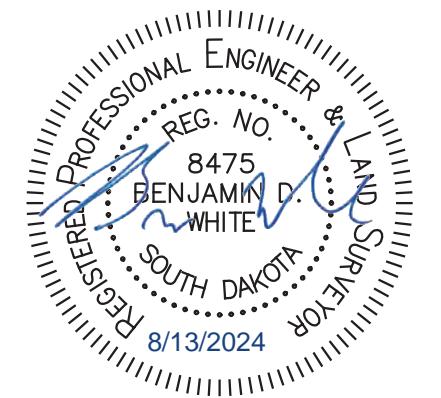
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT IM 0909(92)387	SHEET C18	TOTAL SHEETS C32
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Plotting Date: 8/12/2024



- * Sign Spacing Not to Scale
- TUBULAR MARKER
- CHANNELIZING DEVICES



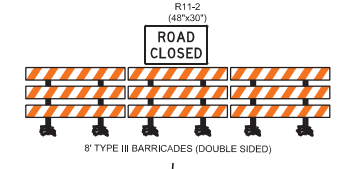
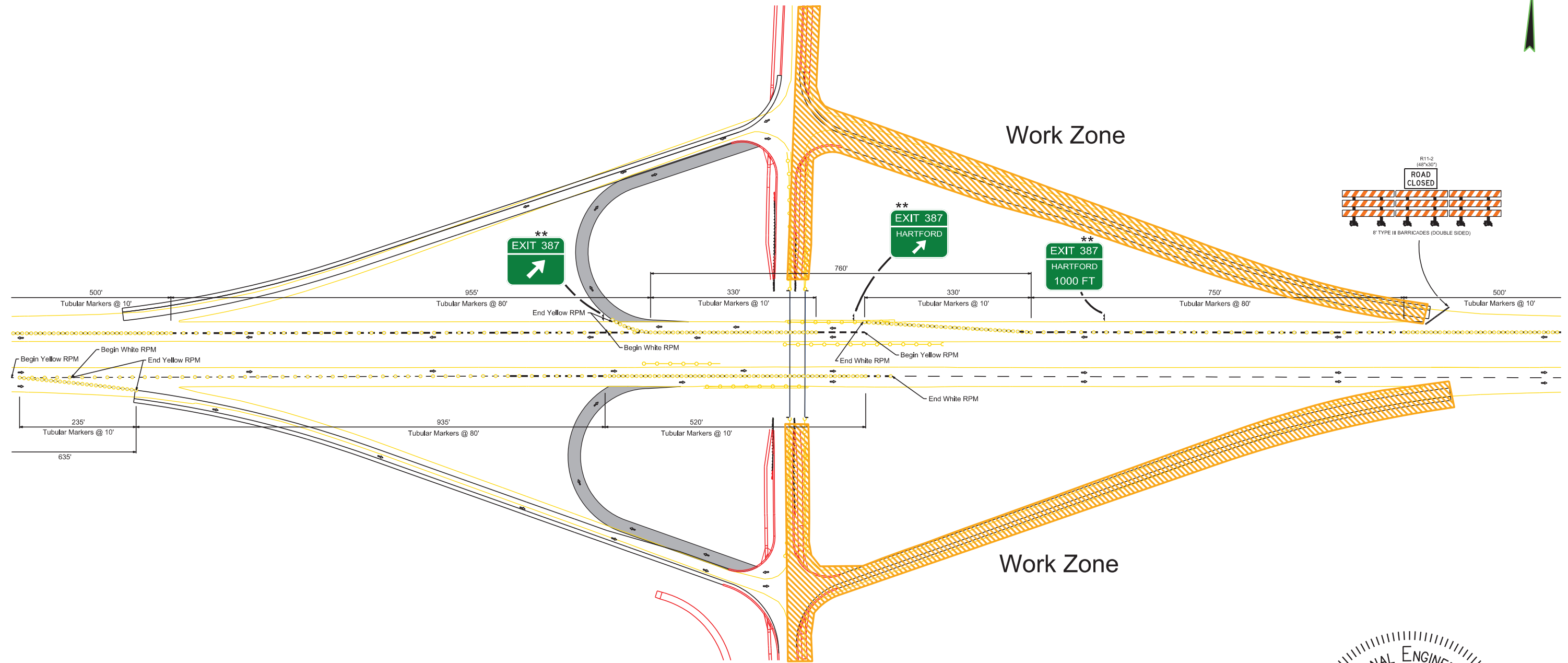
Plotted From: bryce.steffen 1:200

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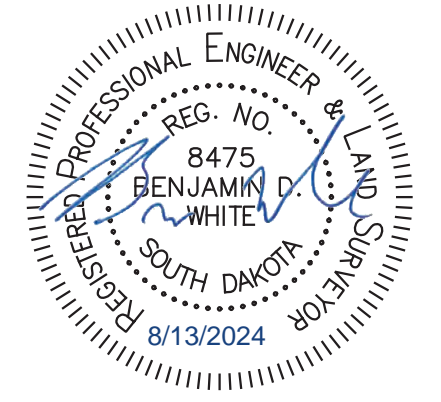
TRAFFIC CONTROL PHASE 2 CONSTRUCTION

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT IM 0909(92)387	SHEET C19	TOTAL SHEETS C32
Plotting Date: 8/12/2024			



- * Sign Spacing Not to Scale
- ** Green Exit Signing to be Spaced at 500 Ft
- TUBULAR MARKER
- CHANNELIZING DEVICES



Plot Scale - 1:200

Plotted From - bryce.steffen

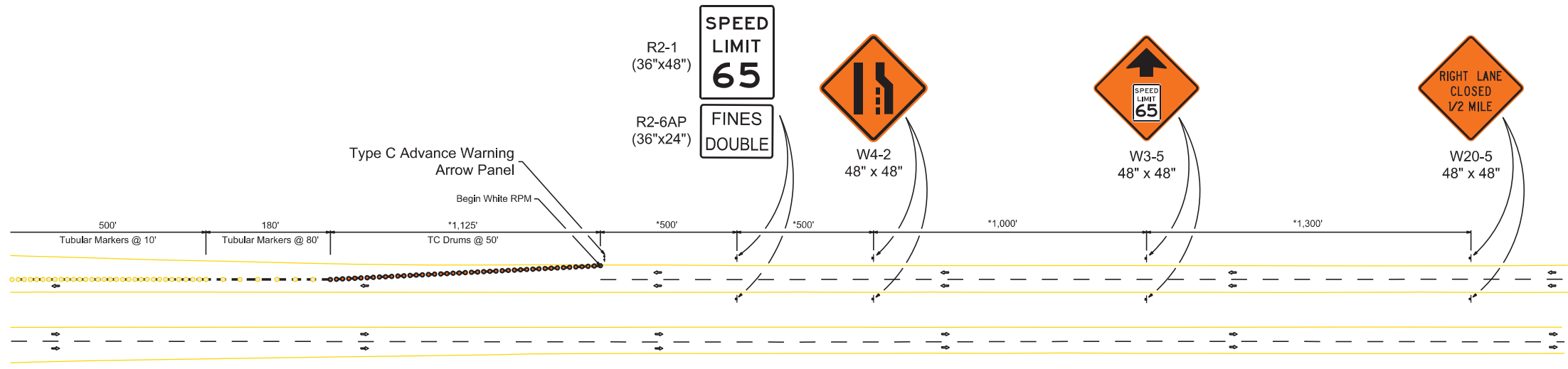
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TRAFFIC CONTROL PHASE 2 CONSTRUCTION

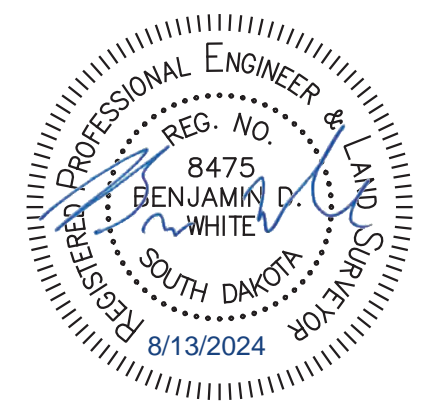
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT IM 0909(92)387	SHEET C20	TOTAL SHEETS C32
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Plotting Date: 8/12/2024



- * Sign Spacing Not to Scale
- TUBULAR MARKER
- CHANNELIZING DEVICES



Plotted From: bryce.steffen 1:200

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FOR BIDDING PURPOSES ONLY

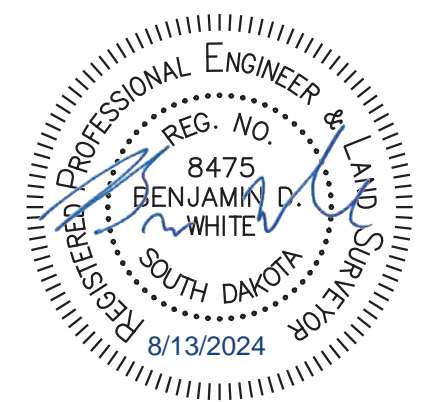
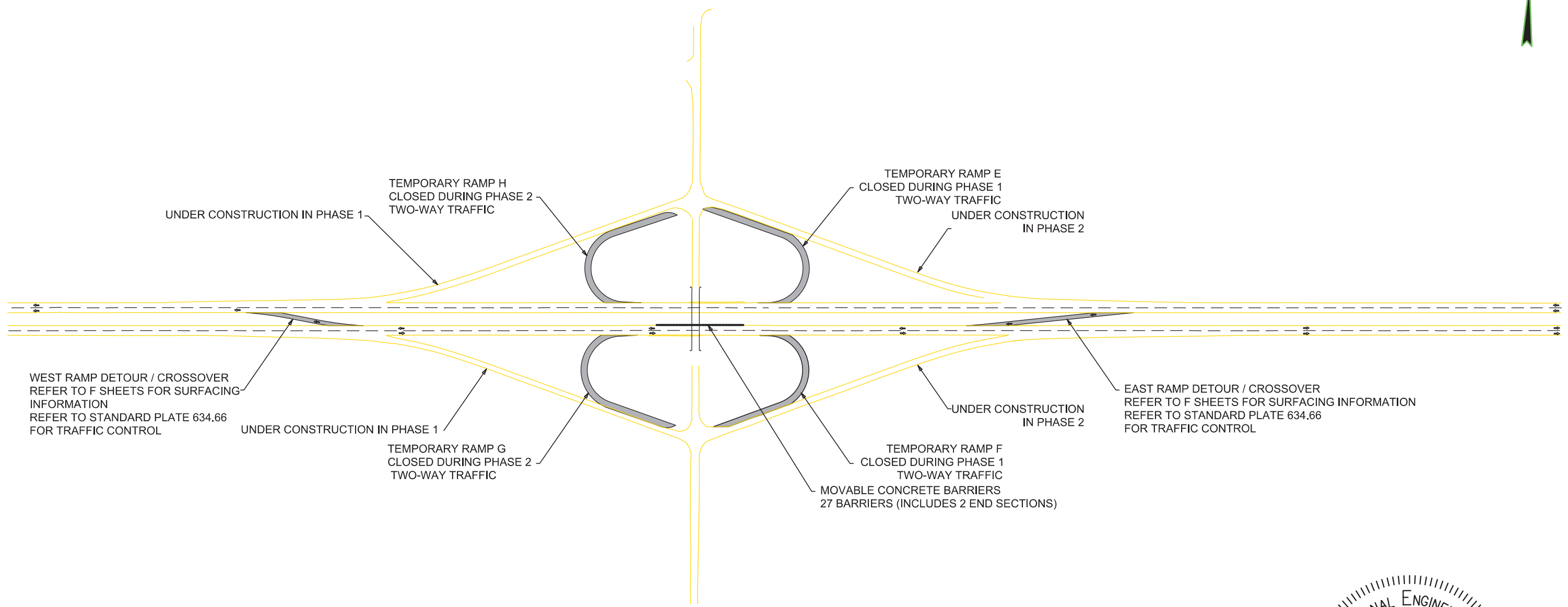
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0909(92)387	C21	C32

Plotting Date: 8/12/2024

MEDIAN CROSSOVER LAYOUTS

MEDIAN CROSSOVER 535+00

MEDIAN CROSSOVER 566+00



Plot Scale - 1:400

Plotted From - byrce.steffen

File - ...I:\design\0608_TrafficControl.dgn

EXIT SIGNING DETAILS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0909(92)387	C22	C32
Plotting Date:		8/12/2024	



SIGN NUMBER	SPECIAL
WIDTH X HEIGHT	5'-0" X 4'-6"
BORDER WIDTH	1.25"
CORNER RADIUS	6.0"
LEGEND	6"/8" E MODIFIED
BACKGROUND	TYPE: HIGH INTENSITY
	COLOR: GREEN
LEGEND/BORDER	TYPE: HIGH INTENSITY
	COLOR: WHITE

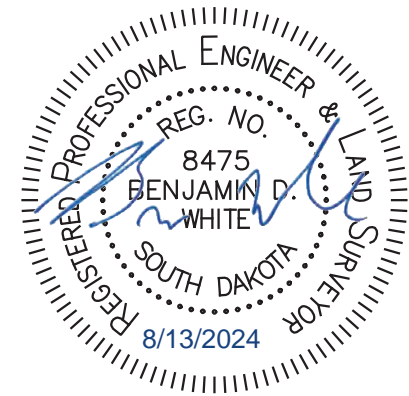


SIGN NUMBER	SPECIAL
WIDTH X HEIGHT	6'-0" X 5'-6"
BORDER WIDTH	1.5"
CORNER RADIUS	8.0"
LEGEND	8"/10" E MODIFIED
BACKGROUND	TYPE: HIGH INTENSITY
	COLOR: GREEN
LEGEND/BORDER	TYPE: HIGH INTENSITY
	COLOR: WHITE



SIGN NUMBER	SPECIAL
WIDTH X HEIGHT	5'-0" X 3'-6"
BORDER WIDTH	1.5"
CORNER RADIUS	5.0"
LEGEND	8" E MODIFIED
BACKGROUND	TYPE: HIGH INTENSITY
	COLOR: GREEN
LEGEND/BORDER	TYPE: HIGH INTENSITY
	COLOR: WHITE

COST WILL BE INCLUDED IN THE CONTRACT UNIT PRICE PER UNIT FOR TRAFFIC CONTROL.



Plot Scale - 1:200

Plotted From - bryce.steffen

File - ...I:\design\0608_TrafficControl.dgn

ITEMIZED LIST FOR TRAFFIC CONTROL

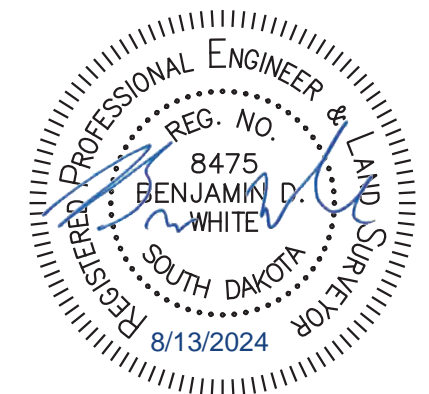
FOR BIDDING PURPOSES ONLY

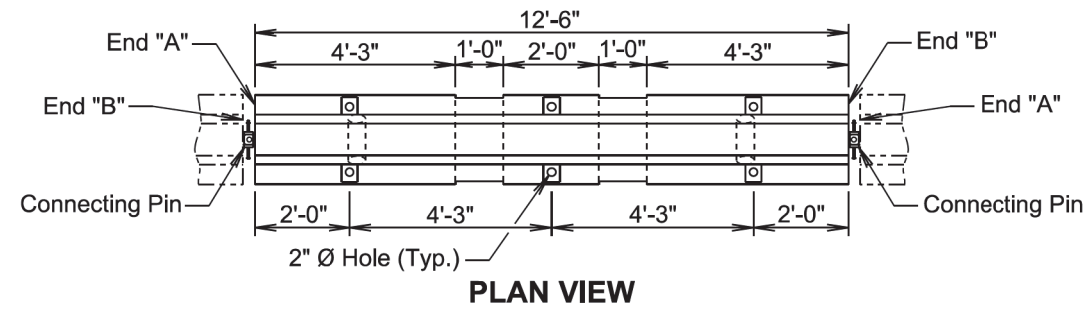
STATE OF SOUTH DAKOTA	PROJECT IM 0909(92)387	SHEET C23	TOTAL SHEETS C32
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SIGN CODE	SIGN DESCRIPTION	CONVENTIONAL ROAD				EXPRESSWAY / INTERSTATE					
		NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT		
G20-1	ROAD WORK NEXT 1 MILE					2	48" x 24"	8.0	16.0		
G20-2	END ROAD WORK	2	36" x 18"	4.5	9.0	14	48" X 24"	8.0	112.0		
M1-1	INTERSTATE ROUTE MARKER (2 digits)	9	24" x 24"	4.0	36.0						
M3-2	DIRECTION MARKER - EAST	5	24" x 12"	2.0	10.0						
M3-4	DIRECTION MARKER - WEST	3	24" x 12"	2.0	6.0						
M6-1	DIRECTION ARROW - Horizontal Single Head (L or R)	6	21" x 15"	2.2	13.2						
M6-3	DIRECTION ARROW - Vertical Single Head (N)	3	21" x 15"	2.2	6.6						
R1-1	STOP	7	30"	5.2	36.4						
R2-1	SPEED LIMIT (80 MPH)					3	48" x 60"	20.0	60.0		
R2-1	SPEED LIMIT (65 MPH)					3	48" x 60"	20.0	60.0		
R2-1	SPEED LIMIT (45 MPH)					1	36" x 48"	12.0	12.0		
R2-1	SPEED LIMIT (25 MPH)	2	24" x 30"	5.0	10.0						
R2-6aP	FINES DOUBLE (PLAQUE)					9	36" x 24"	6.0	54.0		
R4-1	DO NOT PASS					4	48" x 60"	20.0	80.0		
R4-7	KEEP RIGHT (SYMBOL)	25	24" x 30"	5.0	125.0						
R5-1	DO NOT ENTER					2	36" x 36"	9.0	18.0		
R11-2	ROAD CLOSED	12	48" x 30"	10.0	120.0						
W1-4L	REVERSE CURVE					1	48" x 48"	16.0	16.0		
W1-4R	REVERSE CURVE	2	48" x 48"	16.0	32.0	1	48" x 48"	16.0	16.0		
W1-6R	LARGE ARROW (RIGHT)					2	60" x 30"	12.5	25.0		
W1-8	CHEVRON	3	24" x 30"	5.0	15.0	32	30" x 36"	7.5	240.0		
W1-11R	HAIRPIN CURVE ARROW					8	36" x 36"	9.0	72.0		
W3-4	BE PREPARED TO STOP					10	48" x 48"	16.0	160.0		
W3-5	SPEED REDUCTION AHEAD (65 MPH)					3	48" x 48"	16.0	48.0		
W3-5	SPEED REDUCTION AHEAD (45 MPH)					8	48" x 48"	16.0	128.0		
W4-1	MERGE (SYMBOL)					2	48" x 48"	16.0	32.0		
W4-2	LEFT or RIGHT LANE ENDS (SYMBOL)	14	48" x 48"	16.0	224.0						
W4-3	ADDED LANE (SYMBOL)					2	48" x 48"	16.0	32.0		
W6-3	TWO WAY TRAFFIC (SYMBOL)					4	48" x 48"	16.0	64.0		
W8-6	TRUCK CROSSING					4	48" x 48"	16.0	64.0		
W13-2	EXIT (55 MPH)					1	30" x 36"	7.5	7.5		
W13-1P	ADVISORY SPEED (30 MPH)					2	30" x 30"	6.3	12.6		
W13-1P	ADVISORY SPEED (25 MPH)					3	30" x 30"	6.3	18.9		
W13-1P	ADVISORY SPEED (20 MPH)					8	30" x 30"	6.3	50.4		
W13-8	EXIT HAIRPIN CURVE (20 MPH)					2	36" x 60"	15.0	30.0		
W20-1	ROAD WORK AHEAD					18	48" x 48"	16.0	288.0		
W20-4	ONE LANE ROAD AHEAD	4	48" x 48"	16.0	64.0						
W20-5	RIGHT or LEFT LANE CLOSED 1/2 MILE	10	48" x 48"	16.0	160.0						
W20-5	RIGHT or LEFT LANE CLOSED AHEAD	8	48" x 48"	16.0	128.0						
W20-7	FLAGGER (SYMBOL)	6	48" x 48"	16.0	96.0						
W21-5	SHOULDER WORK	2	48" x 48"	16.0	32.0						
SPECIAL	EXIT 387 HARTFORD 1000 Ft	4	60" x 54"	22.5	90.0						
SPECIAL	EXIT 387 HARTFORD ARROW	2	72" x 66"	33.0	66.0						
SPECIAL	EXIT 387 ARROW	2	60" x 42"	17.5	35.0						
		CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT				1314.2	EXPRESSWAY / INTERSTATE TRAFFIC CONTROL SIGNS SQFT				1716.4

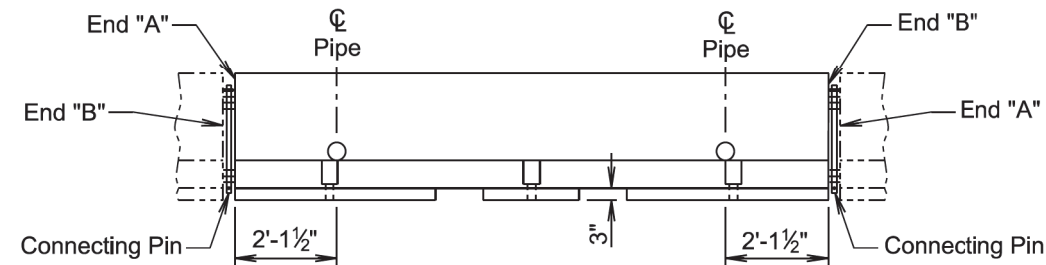
TYPE 3 BARRICADES

ITEM DESCRIPTION	QUANTITY
Type 3 Barricade, 8' Double Sided	24 Each





PLAN VIEW



ELEVATION VIEW

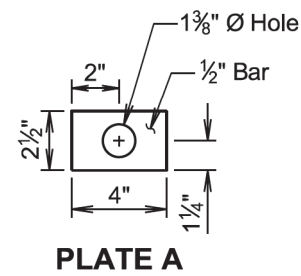
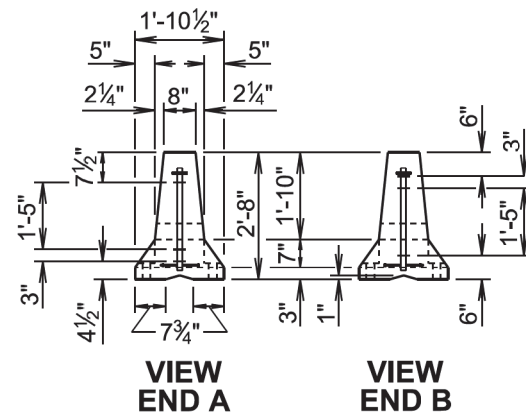
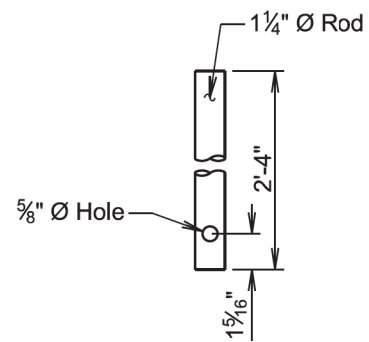


PLATE A

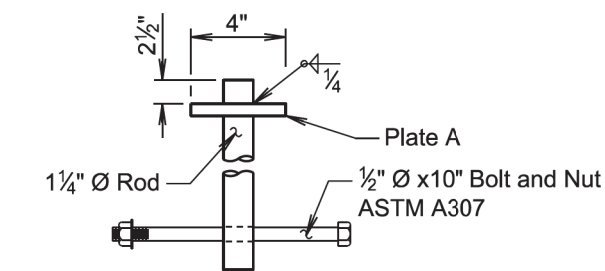


VIEW END A

VIEW END B



CONNECTING PIN DETAIL



ASSEMBLED CONNECTING PIN

September 14, 2018

September 14, 2018

Published Date: 2025

Published Date: 2025

SD
DOT

TRAFFIC CONTROL MOVABLE CONCRETE BARRIERS
(F SHAPE INTERIOR SECTION)

PLATE NUMBER
628.01

Sheet 1 of 2

SD
DOT

TRAFFIC CONTROL MOVABLE CONCRETE BARRIERS
(F SHAPE INTERIOR SECTION)

PLATE NUMBER
628.01

Sheet 2 of 2

GENERAL NOTES:

The detailed drawings are for illustrative purpose and depicts the current version of the F shape concrete barrier. If new movable concrete barriers are requested on a project, they will be constructed according to the F shape movable concrete barrier details on standard plate 628.10.

Each movable concrete barrier section weighs 5030 ± pounds.

Each movable concrete barrier section is detailed to provide end "A" to end "B" connection by insertion of a pin through steel loops.

The Jersey shape or any version of the F shape traffic control movable concrete barriers may be used on a project, however, only the same type or version will be used for each run of barriers.

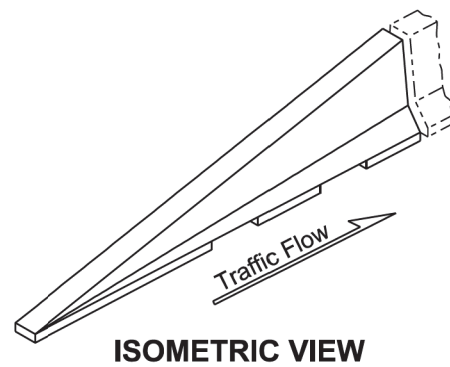
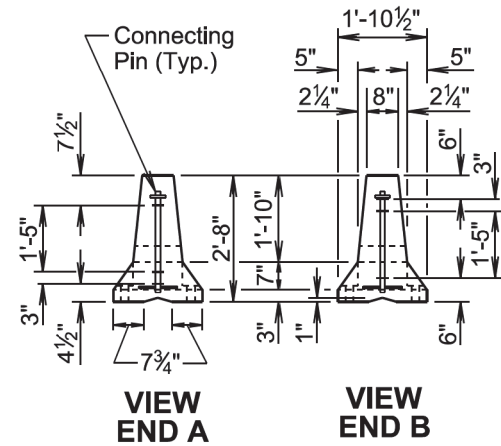
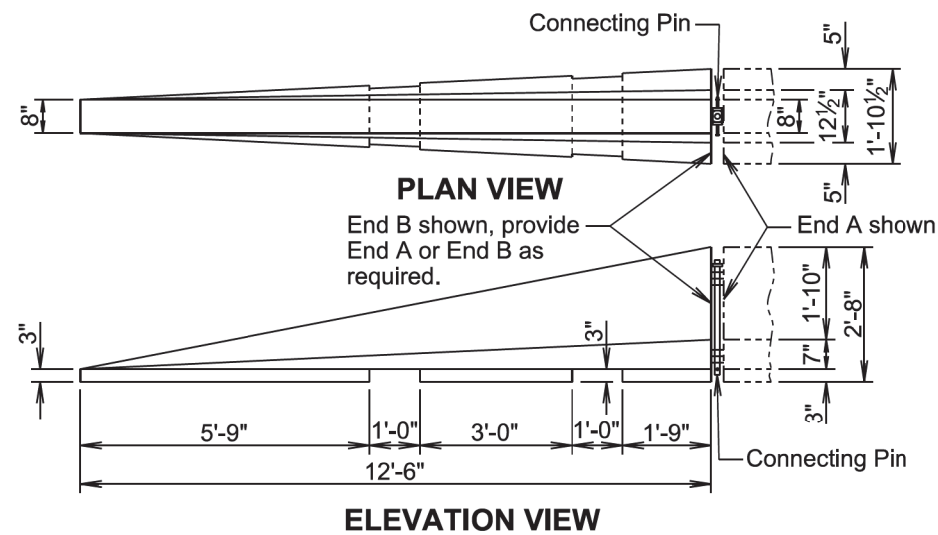
Movable concrete barrier sections will be placed to provide uniform bearing of the sections with the paved surface as approved by the Engineer.

Movable concrete barrier sections will never be moved or lifted using the end loops.

Movable concrete barrier sections that have been damaged will not be used. Barrier sections are considered damaged if the loops are end welded onto existing damaged loops, loops are fractured, or there is exposed rebar from fractured concrete.

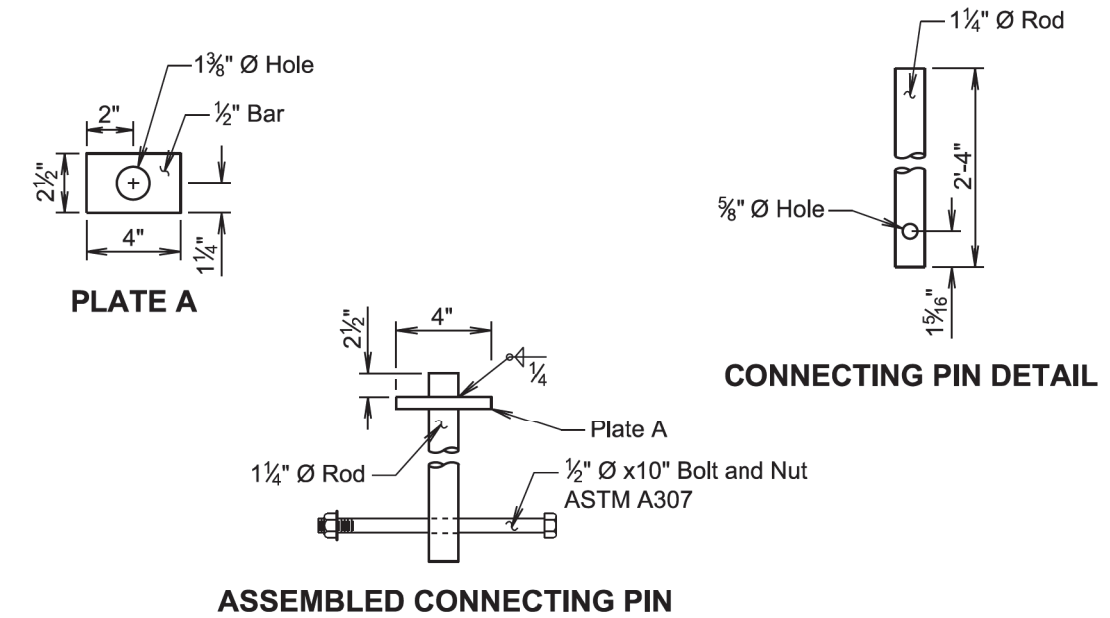
All cost for transporting the barriers from the specified location to the project site, installing, and returning the barriers to the specified location will be incidental to the contract unit price per each for "Traffic Control Movable Concrete Barrier".

If the concrete barriers need to be moved and reset on the project, requiring the barriers to be transported by truck, all cost for removing, transporting, and resetting the barriers will be incidental to the contract unit price per each for "Remove and Reset Traffic Control Movable Concrete Barrier". All cost for small shifts in alignment of the barriers, not requiring the barriers to be transported by truck, will be incidental to various contract items.



September 14, 2018

Published Date: 2025	SDDOT	TRAFFIC CONTROL MOVABLE CONCRETE BARRIERS (F SHAPE END SECTION)	PLATE NUMBER 628.02
			Sheet 1 of 2



GENERAL NOTES:

The detailed drawings are for illustrative purpose and depicts the current version of the F shape concrete barrier end section. If new concrete barrier end sections are requested on a project, they will be constructed according to the F shape movable concrete barrier end section details on standard plate 628.11.

Each movable concrete barrier end section weighs 2450 ± pounds.

Each movable concrete barrier end section is detailed to provide end "A" to end "B" connection by insertion of a pin through steel loops.

The Jersey shape or any version of the F shape traffic control movable concrete barriers may be used on a project, however, only the same type or version will be used for each run of barriers.

Movable concrete barrier sections will be placed to provide uniform bearing of the sections with the paved surface as approved by the Engineer.

Movable concrete barrier end sections will never be moved or lifted using the end loops.

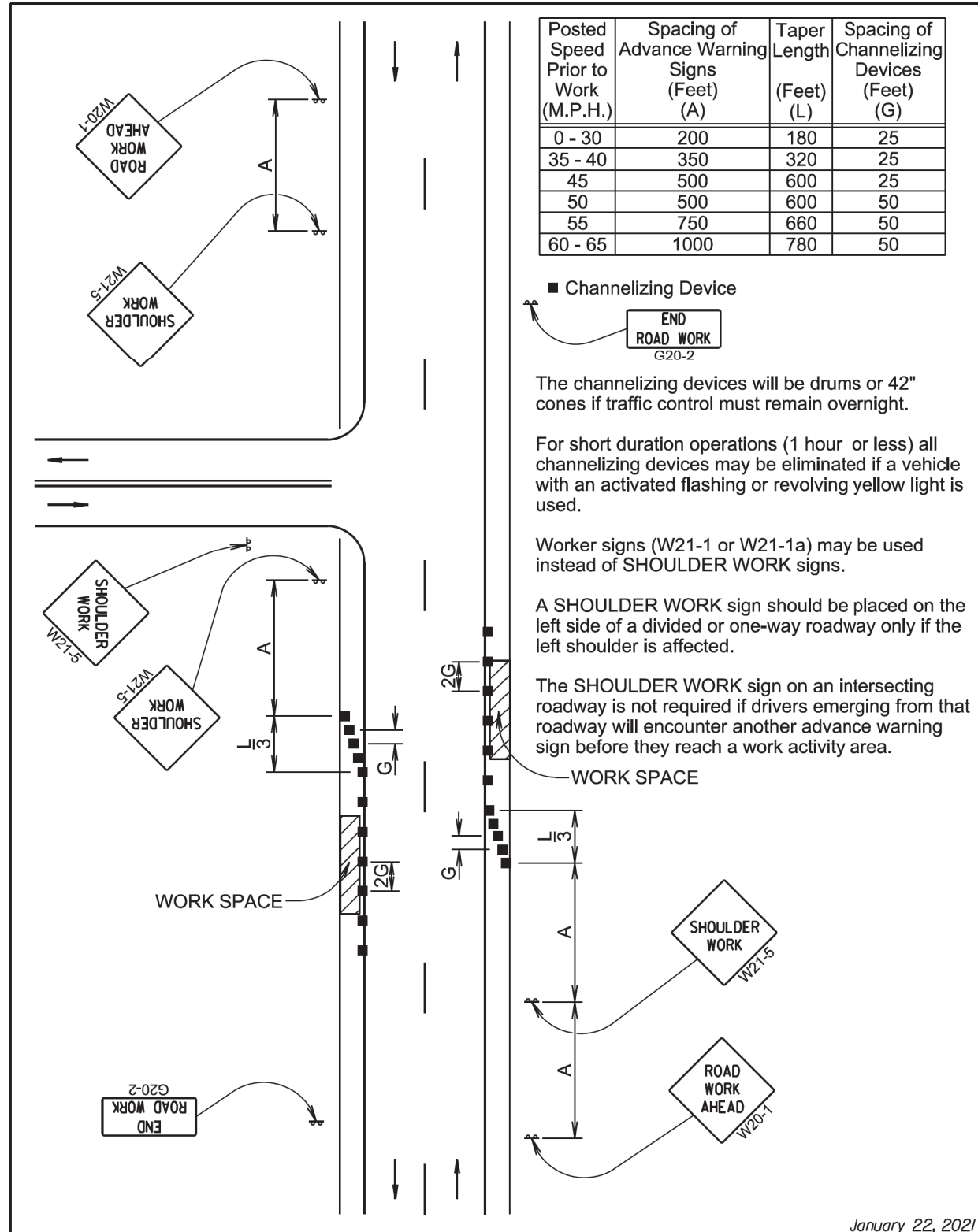
Movable concrete barrier end sections that have been damaged will not be used. Barrier sections are considered damaged if the loops are end welded onto existing damaged loops, loops are fractured, or there is exposed rebar from fractured concrete.

All cost for transporting the barriers from the specified location to the project site, installing, and returning the barriers to the specified location will be incidental to the contract unit price per each for "Traffic Control Movable Concrete Barrier".

If the concrete barriers need to be moved and reset on the project, requiring the barriers to be transported by truck, all cost for removing, transporting, and resetting the barriers will be incidental to the contract unit price per each for "Remove and Reset Traffic Control Movable Concrete Barrier". All cost for small shifts in alignment of the barriers, not requiring the barriers to be transported by truck, will be incidental to various contract items.

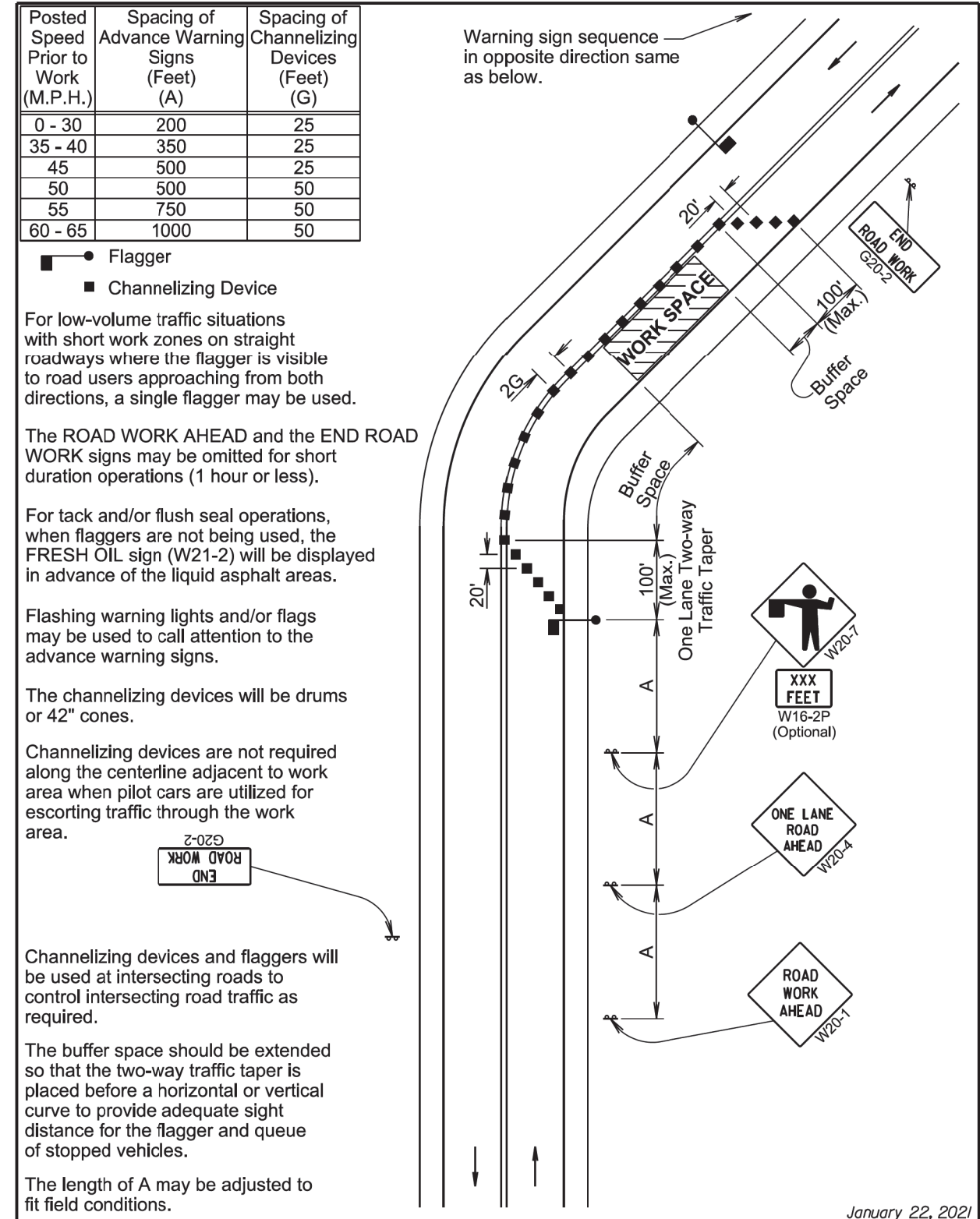
September 14, 2018

Published Date: 2025	SDDOT	TRAFFIC CONTROL MOVABLE CONCRETE BARRIERS (F SHAPE END SECTION)	PLATE NUMBER 628.02
			Sheet 2 of 2



January 22, 2021

SDDOT Published Date: 2025	WORK ON SHOULDERS	PLATE NUMBER 634.03
		Sheet 1 of 1



January 22, 2021

SDDOT Published Date: 2025	LANE CLOSURE WITH FLAGGER PROVIDED	PLATE NUMBER 634.23
		Sheet 1 of 1

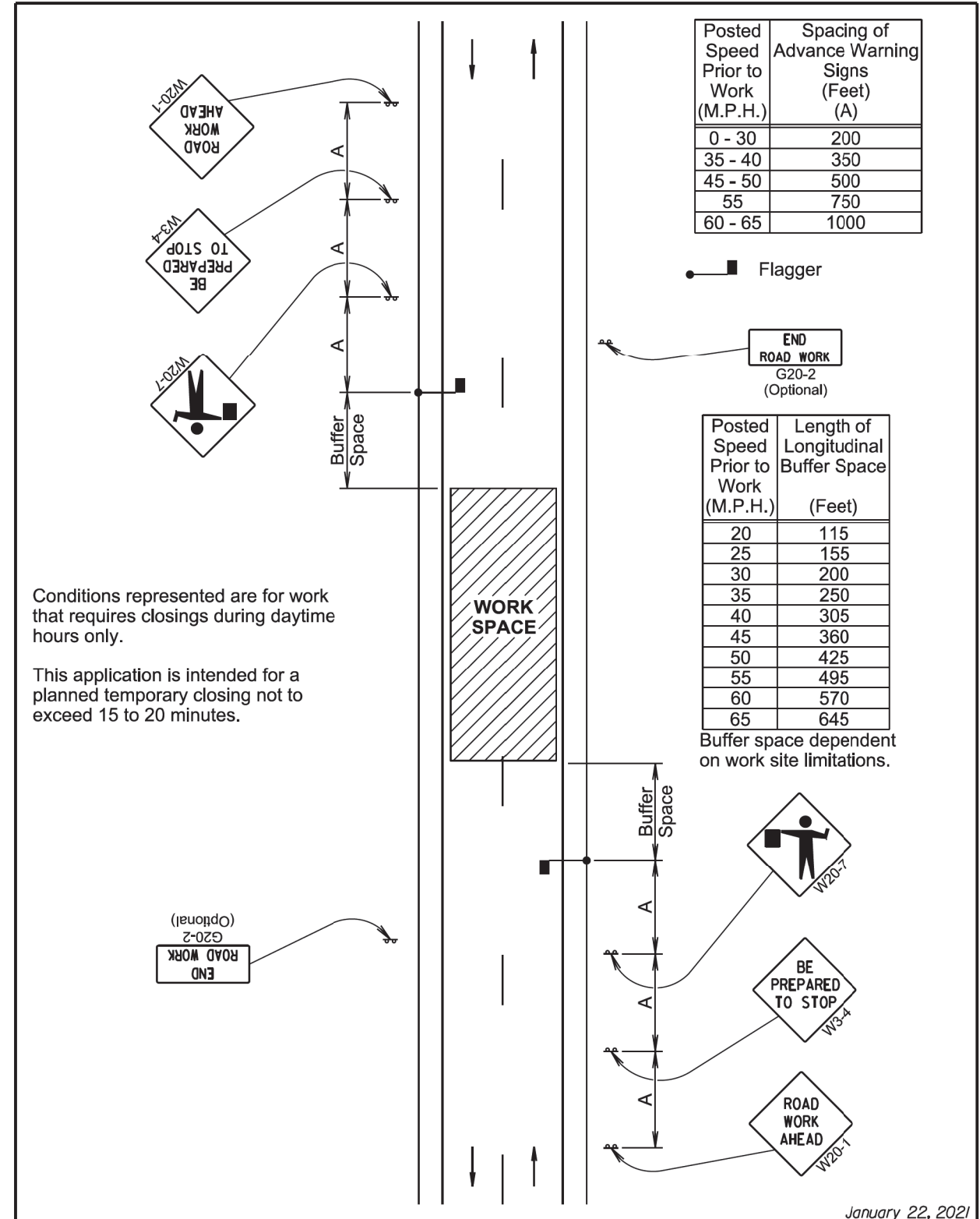
Plot Scale - 1/2"=20'

Plotted From - bryce.steffen

File - ...I:\design\0608_detail_sheets.dgn



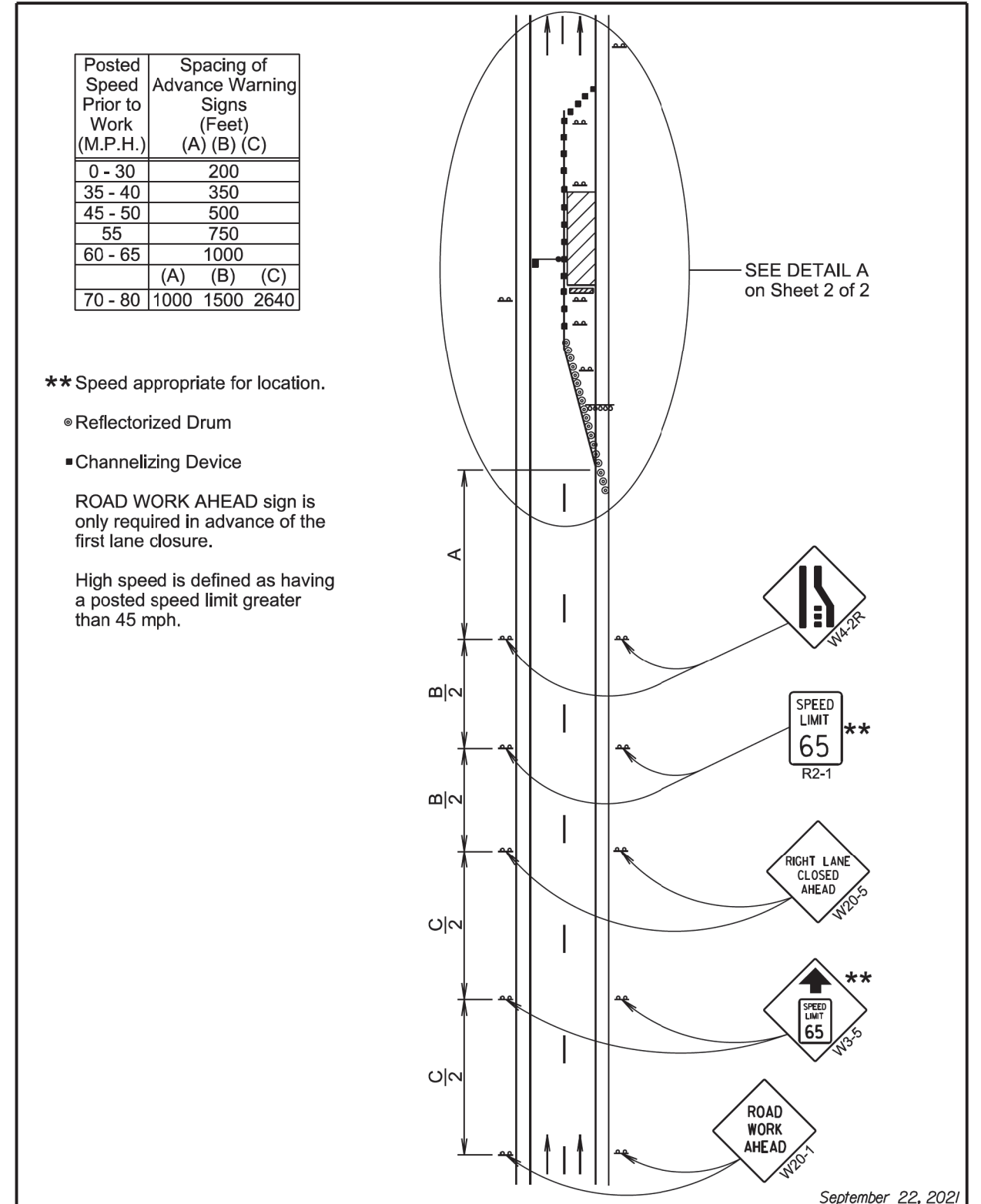
Plot Scale - 1/2"=100'



January 22, 2021

SDDOT	TEMPORARY ROAD WORK	PLATE NUMBER 634.30
		Sheet 1 of 1

Published Date: 2025



September 22, 2021

SDDOT	WORK ZONE SPEED REDUCTION FOR INTERSTATE AND HIGH SPEED MULTI-LANE HIGHWAYS	PLATE NUMBER 634.63
		Sheet 1 of 2

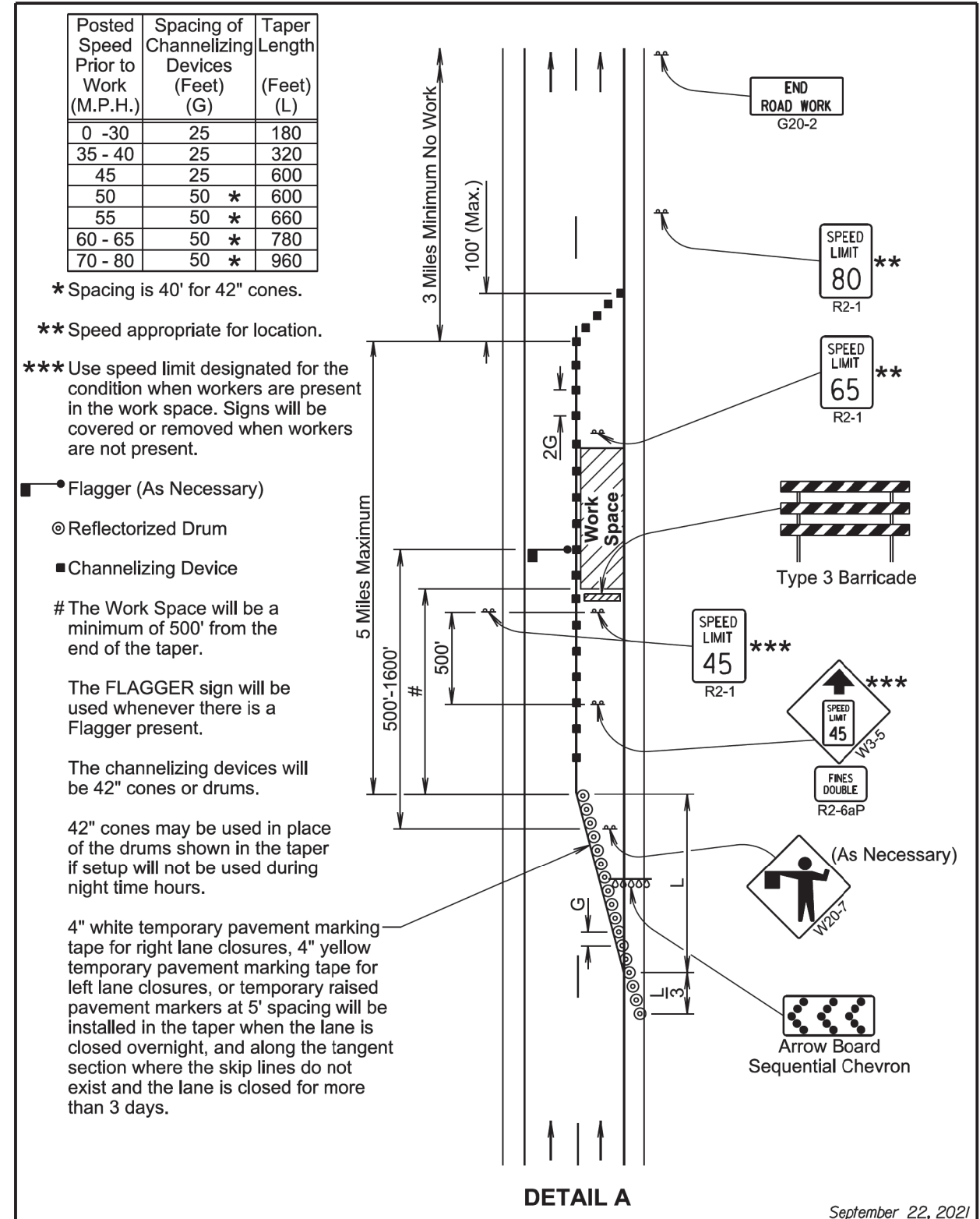
Published Date: 2025

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Plotted From - bryce.steffen

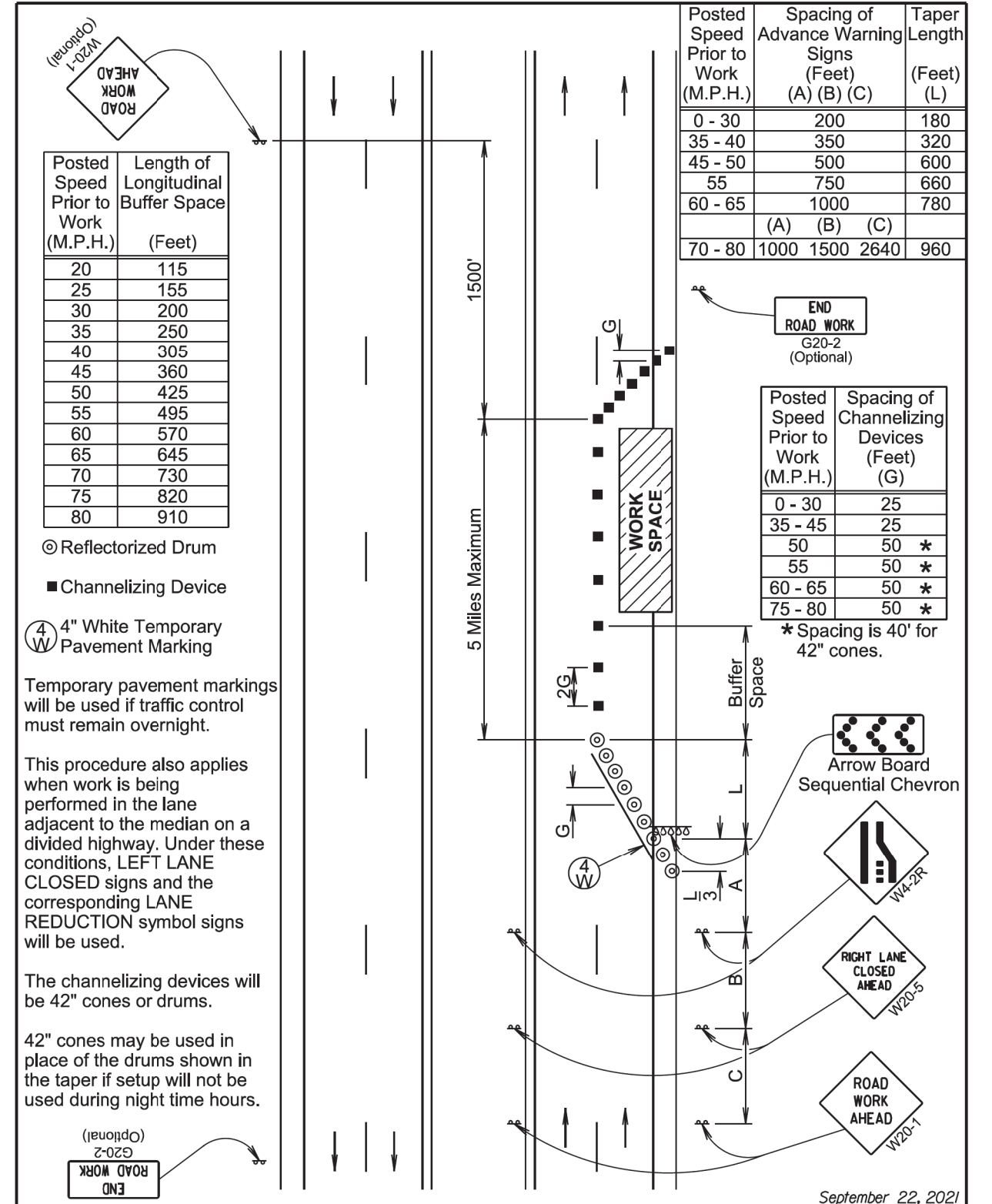


Plot Scale - 1:200



September 22, 2021

SDDOT	WORK ZONE SPEED REDUCTION FOR INTERSTATE AND HIGH SPEED MULTI-LANE HIGHWAYS	PLATE NUMBER 634.63
	Published Date: 2025	Sheet 2 of 2

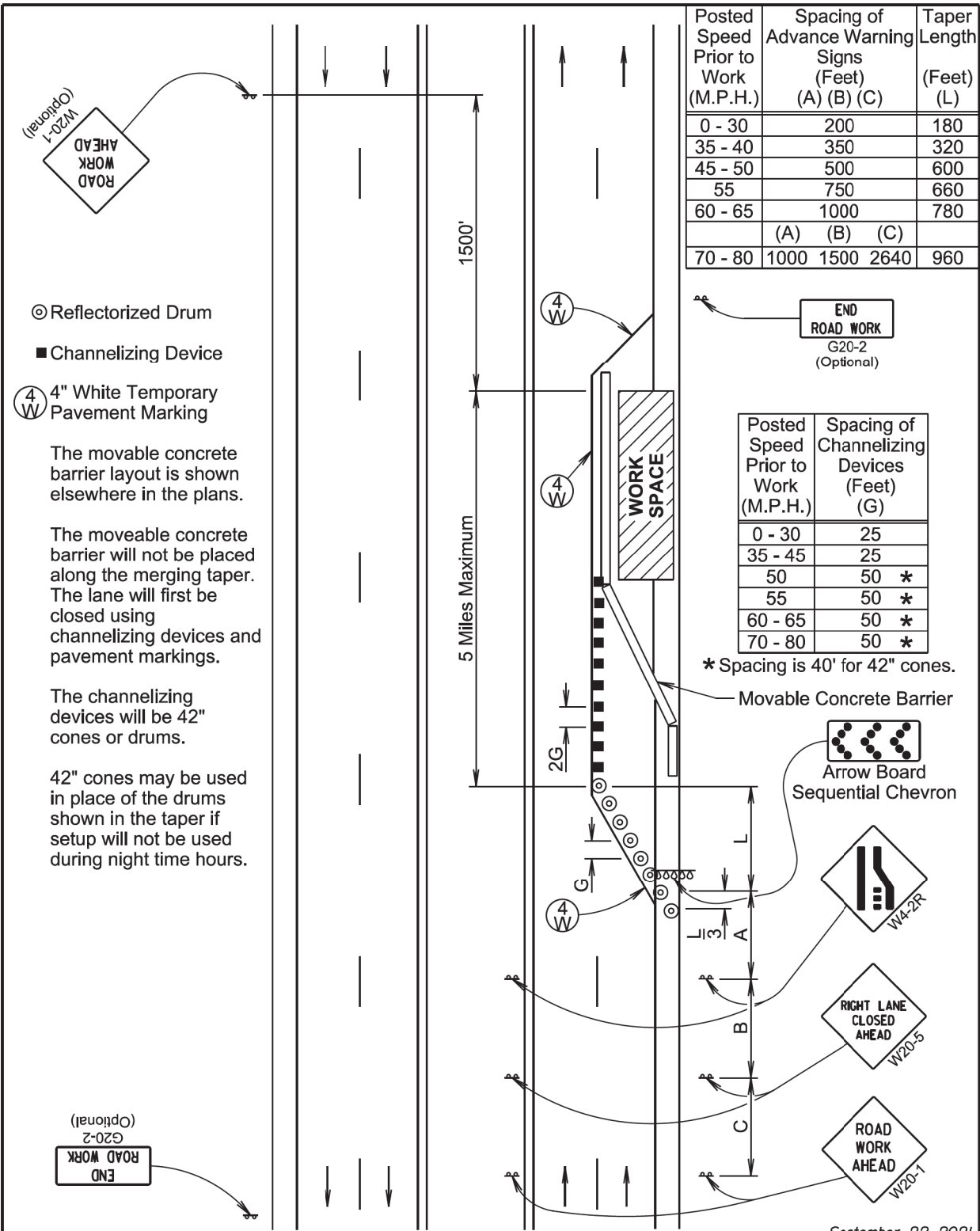


SDDOT	LANE CLOSURE WITHOUT BARRIER	PLATE NUMBER 634.64
	Published Date: 2025	Sheet 1 of 1

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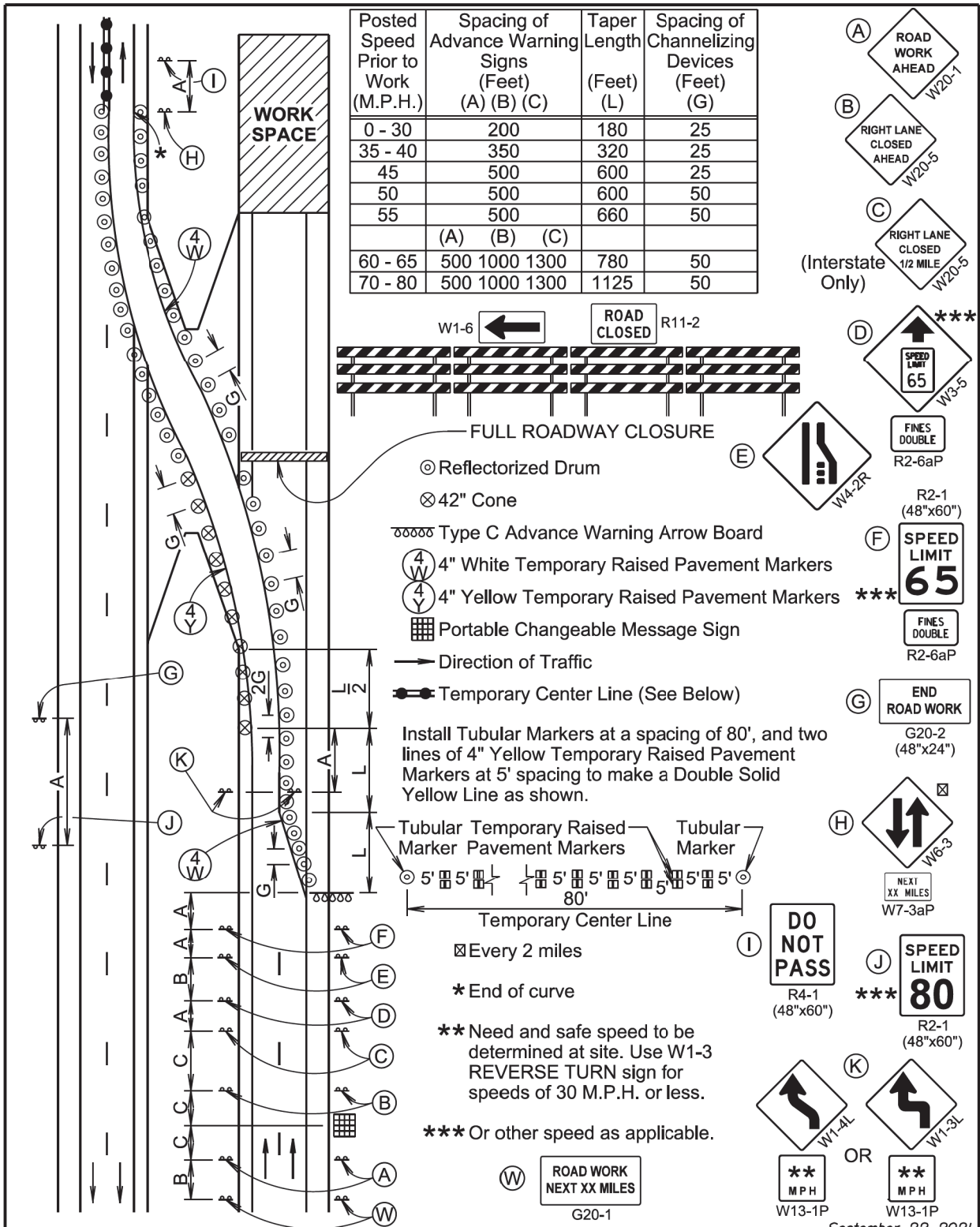
Plotted From - bryce.steffen

Plot Scale - 1:200



September 22, 2021

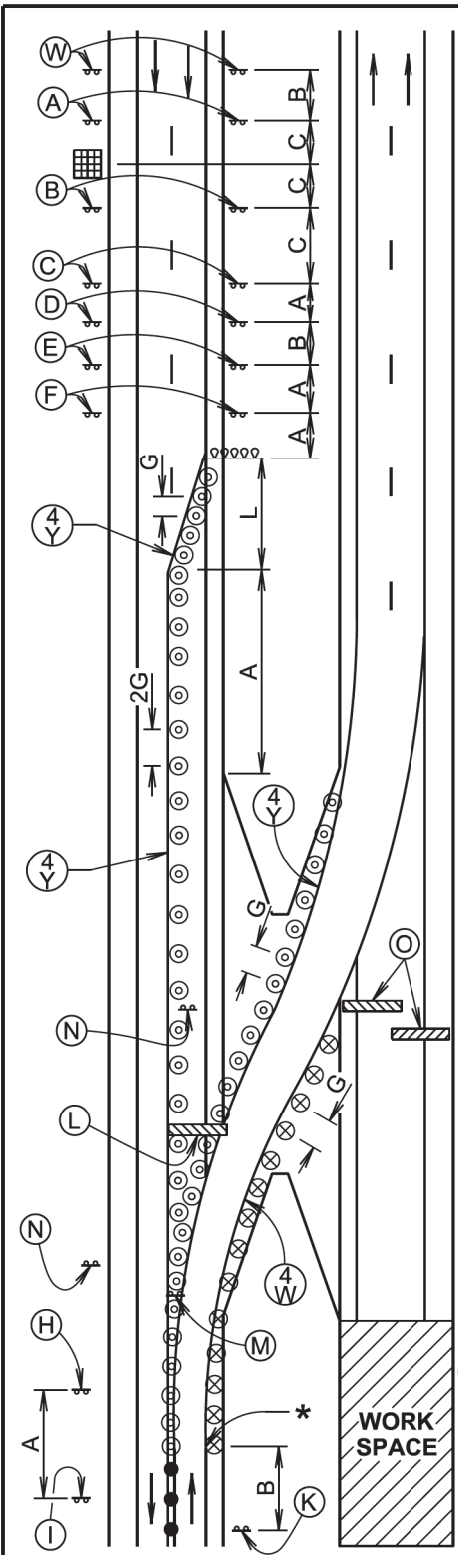
SD DOT Published Date: 2025	LANE CLOSURE WITH BARRIER	PLATE NUMBER 634.65	Sheet 1 of 1
	PLATE NUMBER 634.65		



September 22, 2021

SD DOT Published Date: 2025	MEDIAN CROSSOVER ON DIVIDED HIGHWAY	PLATE NUMBER 634.66	Sheet 1 of 2
	PLATE NUMBER 634.66		

Plotted From - bryce.steffen



◎ Reflectorized Drum
⊗ 42" Cone
Type C Advance Warning Arrow Board
④ 4" White Temporary Raised Pavement Markers
④ 4" Yellow Temporary Raised Pavement Markers
Portable Changeable Message Sign
Direction of Traffic
Temporary Center Line (See Below)
Install Tubular Markers at a spacing of 80', and two lines of 4" Yellow Temporary Raised Pavement Markers at 5' spacing to make a Double Solid Yellow Line as shown.

Every 2 miles
* End of curve
** Need and safe speed to be determined at site. Use W1-3 REVERSE TURN sign for speeds of 30 M.P.H. or less.
*** Or other speed as applicable.

Posted Speed Prior to Work (M.P.H.)	Spacing of Advance Warning Signs (Feet)			Taper Length (Feet) (L)	Spacing of Channelizing Devices (Feet) (G)
	(A)	(B)	(C)		
0 - 30	200			180	25
35 - 40	350			320	25
45	500			600	25
50	500			600	50
55	500			660	50
	(A)	(B)	(C)		
60 - 65	500	1000	1300	780	50
70 - 80	500	1000	1300	1125	50

Legend for signs and markers:

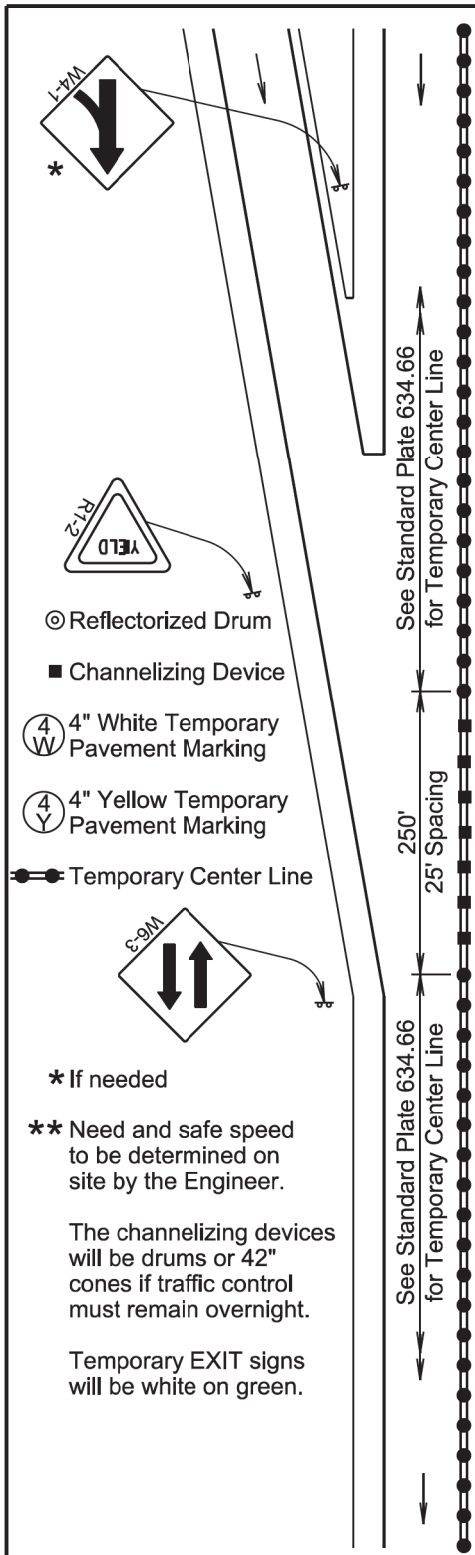
- A: ROAD WORK AHEAD W20-1
- B: LEFT LANE CLOSED AHEAD W20-5
- C: LEFT LANE CLOSED 1/2 MILE W20-5
- D: SPEED LIMIT 65 W3-5
- E: FINES DOUBLE R2-6aP
- F: SPEED LIMIT 65 W3-5
- G: END ROAD WORK G20-2 (48"x24")
- H: NEXT XX MILES W7-3aP
- I: DO NOT PASS R4-1 (48"x60")
- J: SPEED LIMIT 80 R2-1 (48"x60")
- K: ROAD WORK NEXT XX MILES G20-1
- L: Type 3 Barricade
- M: RAMP XX MPH W13-3
- N: EXIT XXX (60"x48")
- O: EXIT XXX 10th Street (60"x48")
- P: EXIT XXX XX MPH W13-2
- Q: EXIT XXX 10th Street 1000 FT (60"x48")
- R: DO NOT ENTER R5-1 (36"x36")
- S: ROAD WORK NEXT XX MILES G20-1
- T: ** MPH W13-1P
- U: ** MPH W13-1P

September 22, 2021

SDDOT

PLATE NUMBER
634.66
Sheet 2 of 2
MEDIAN CROSSOVER ON DIVIDED HIGHWAY

Published Date: 2025



◎ Reflectorized Drum
■ Channelizing Device
④ 4" White Temporary Pavement Marking
④ 4" Yellow Temporary Pavement Marking
Temporary Center Line

* If needed
** Need and safe speed to be determined on site by the Engineer.
The channelizing devices will be drums or 42" cones if traffic control must remain overnight.
Temporary EXIT signs will be white on green.

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 - 65	50
70 - 75	50
80	50

Legend for signs and markers:

- A: ROAD WORK AHEAD W20-1
- B: LEFT LANE CLOSED AHEAD W20-5
- C: LEFT LANE CLOSED 1/2 MILE W20-5
- D: SPEED LIMIT 65 W3-5
- E: FINES DOUBLE R2-6aP
- F: SPEED LIMIT 65 W3-5
- G: END ROAD WORK G20-2 (48"x24")
- H: NEXT XX MILES W7-3aP
- I: DO NOT PASS R4-1 (48"x60")
- J: SPEED LIMIT 80 R2-1 (48"x60")
- K: ROAD WORK NEXT XX MILES G20-1
- L: Type 3 Barricade
- M: RAMP XX MPH W13-3
- N: EXIT XXX (60"x48")
- O: EXIT XXX 10th Street (60"x48")
- P: EXIT XXX XX MPH W13-2
- Q: EXIT XXX 10th Street 1000 FT (60"x48")
- R: DO NOT ENTER R5-1 (36"x36")
- S: ROAD WORK NEXT XX MILES G20-1
- T: ** MPH W13-1P
- U: ** MPH W13-1P

January 22, 2021

SDDOT

PLATE NUMBER
634.67
Sheet 1 of 1
MEDIAN CROSSOVER FOR EXIT RAMP

Published Date: 2025

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)	
	(A)	(B)
0 - 30	25	
35 - 45	25	
50	50	*
55	50	*
60 - 80	50	*

* Spacing is 40' for 42" cones.

⊙ ReflectORIZED Drum

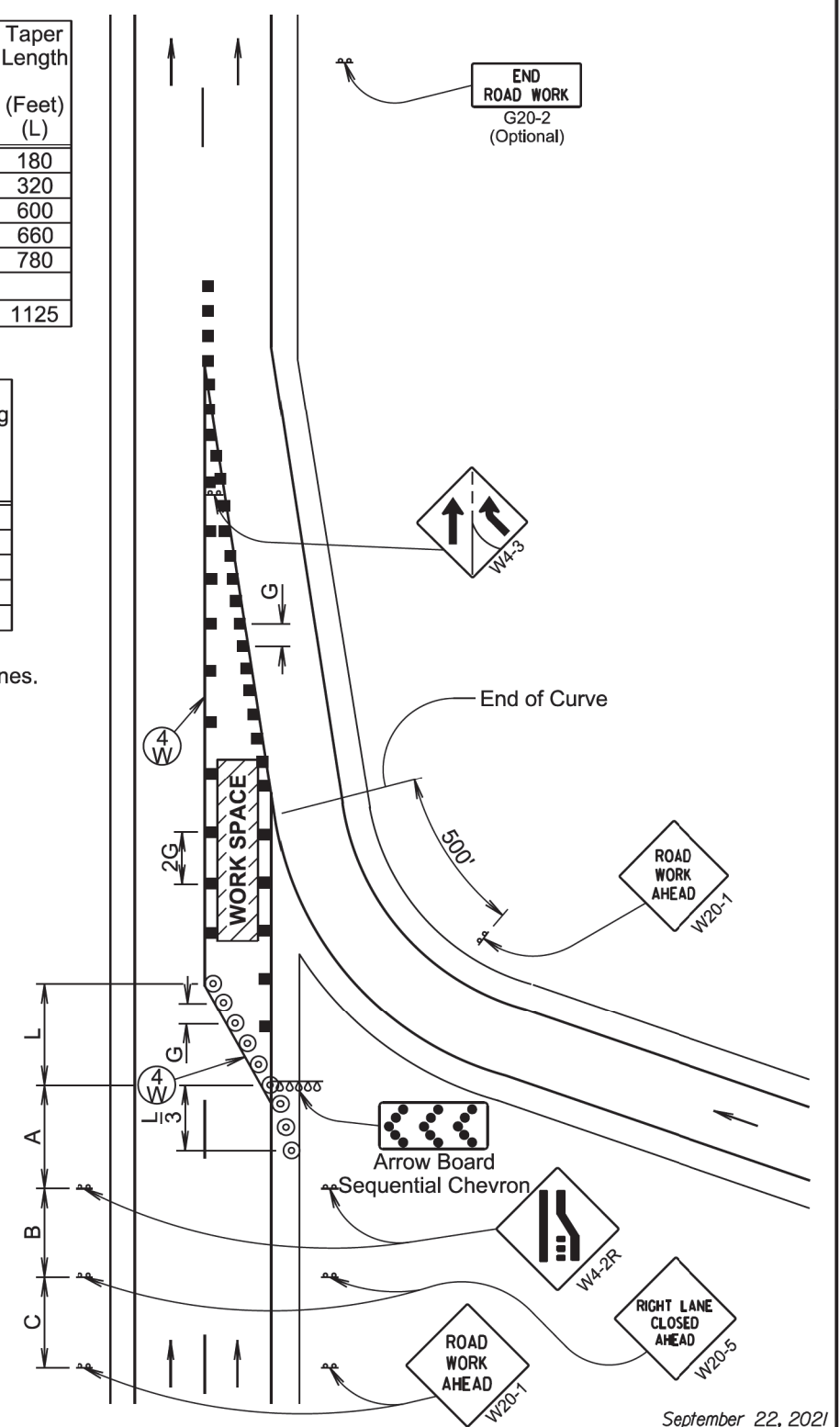
■ Channelizing Device

④ 4" White Temporary Pavement Marking

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

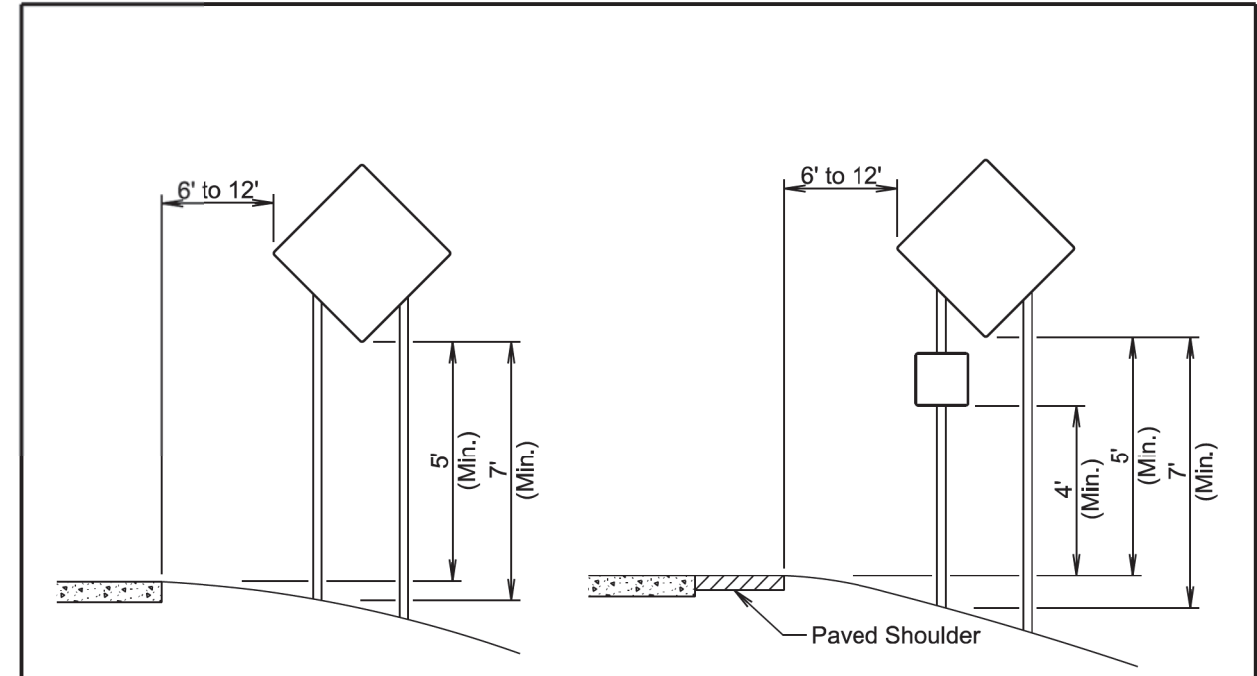
The channelizing devices will be drums or 42" cones if traffic control must remain overnight.

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



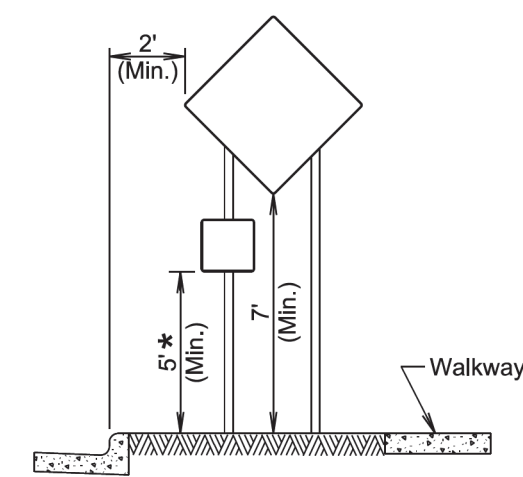
September 22, 2021

Published Date: 2025	SDOT	WORK IN VICINITY OF ENTRANCE RAMP	PLATE NUMBER 634.70
			Sheet 1 of 1

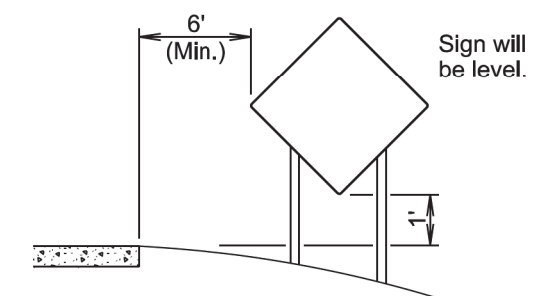


RURAL DISTRICT

RURAL DISTRICT WITH SUPPLEMENTAL PLATE



URBAN DISTRICT



RURAL DISTRICT 3 DAY MAXIMUM

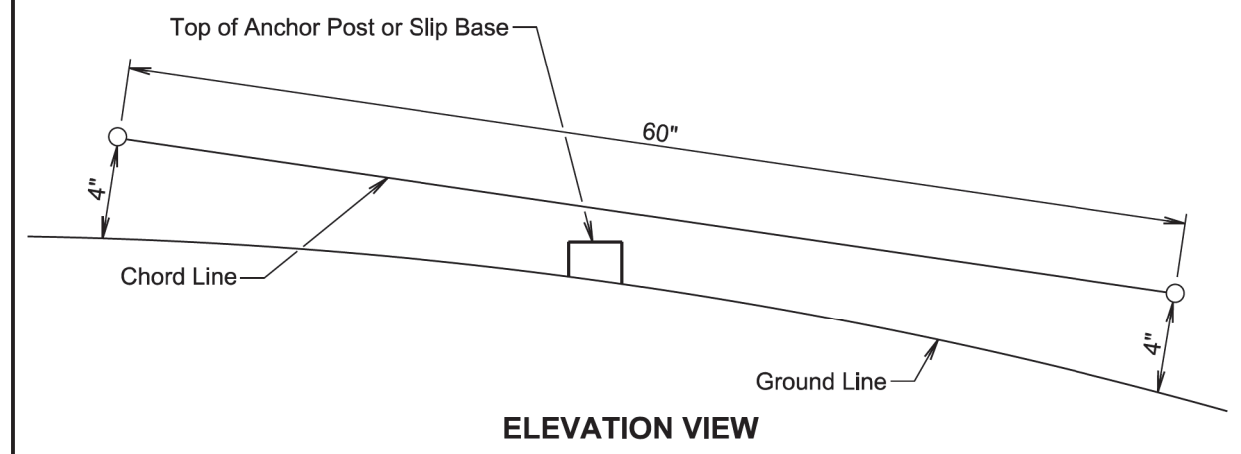
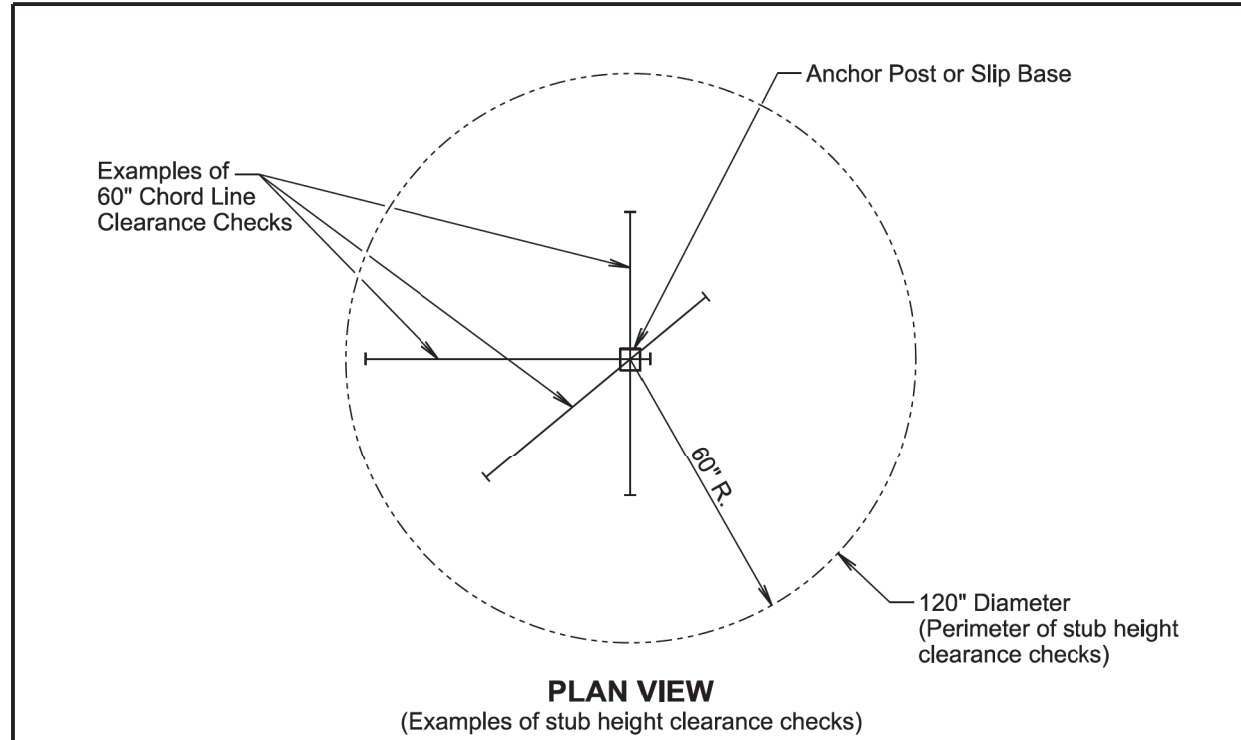
(Not applicable to regulatory signs)

* 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.

January 22, 2021

Published Date: 2025	SDOT	CRASHWORTHY SIGN SUPPORTS (Typical Construction Signing)	PLATE NUMBER 634.85
			Sheet 1 of 1

Plot Scale - 1:200



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: 2025	S D D O T	BREAKAWAY SUPPORT STUB CLEARANCE	PLATE NUMBER 634.99
			Sheet 1 of 1

Plotted From - bryce.steffen

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