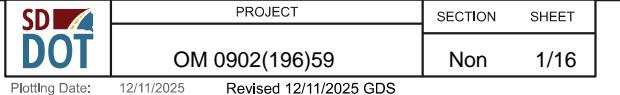


STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED



**PROJECT IM 0902(196)59
INTERSTATE 90 WB
PENNINGTON COUNTY**

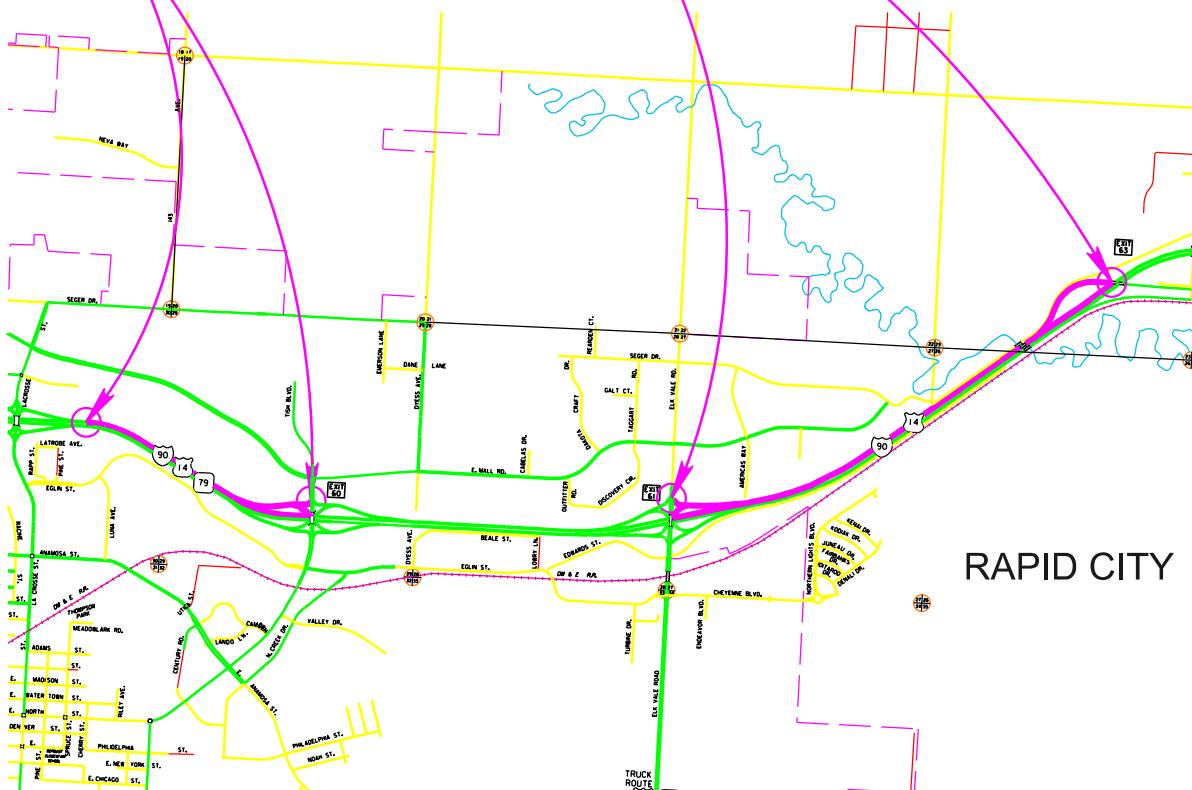
INTERSTATE FENCING

0AD0

— PROJECT

I90 WB MRM 61.86 to MRM 63.86

I90 WB MRM 59.41 to MRM 60.48



RAPID CITY

INDEX OF SHEETS

- Sheet 1: Title and Index
- Sheets 2-3: Estimate, Notes and Tables
- Sheets 4-11: Plan Sheets
- Sheets 12-16: Standard Plates



DESIGN DESIGNATION

ADT (2024)	16300
ADT (2044)	23619
DHV	2517
D	50%
T DHV	3.7%
T ADT	8.1%
V	65 mph

STORM WATER PERMIT
None Required

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	OM 0902(196)59	Non	2/16

ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E4100	Construction Schedule, Category I	Lump Sum	LS
100E0100	Clearing	Lump Sum	LS
110E0600	Remove Fence	14,170	Ft
621E0160	6' Chain Link Fence with Tension Wired Top	14,170	Ft
621E0430	Double Vehicular Swing Gate	2	Each
634E0110	Traffic Control Signs	32.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS

ENVIRONMENTAL COMMITMENTS

The SDDOT is committed to protecting the environment and uses Environmental Commitments as a communication tool for the Engineer and Contractor to ensure that attention is given to avoid, minimize, and/or mitigate an environmental impact. Environmental commitments to various agencies and the public have been made to secure approval of this project. An agency with permitting authority can delay a project if identified environmental impacts have not been adequately addressed. Unless otherwise designated, the Contractor's primary contact regarding matters associated with these commitments will be the Project Engineer. During construction, the Project Engineer will verify that the Contractor has met Environmental Commitment requirements. These environmental commitments are not subject to change without prior written approval from the SDDOT Environmental Office.

Additional guidance on SDDOT's Environmental Commitments can be accessed through the Environmental Procedures Manual found at: <https://dot.sd.gov/media/documents/EnvironmentalProceduresManual.pdf>

For questions regarding change orders in the field that may have an effect on an Environmental Commitment, the Project Engineer will contact the Environmental Engineer at 605-773-3180 or 605-773-4336 to determine whether an environmental analysis and/or resource agency coordination is necessary.

Once construction is complete, the Project Engineer will review all environmental commitments for the project and document their completion.

COMMITMENT B: FEDERALLY THREATENED, ENDANGERED, AND PROTECTED SPECIES

COMMITMENT B2: WHOOPING CRANE

The Whooping Crane is a spring and fall migratory bird in South Dakota that is about 5 feet tall and typically stops on wetlands, rivers, and agricultural lands along their migration route. An adult Whooping Crane is white with a red crown and a long, dark, pointed bill. Immature Whooping Cranes are cinnamon brown. While in flight, their long necks are kept straight and their long dark legs trail behind. Adult Whooping Cranes' black wing tips are visible during flight.

Action Taken/Required:

Harassment or other measures to cause the Whooping Crane to leave the site is a violation of the Endangered Species Act. If a Whooping Crane is sighted roosting in the vicinity of the project, borrow pits, or staging areas associated with the project, cease construction activities in the affected area until the Whooping Crane departs and immediately contact the Project Engineer. The Project Engineer will contact the Environmental Office so that the sighting can be reported to USFWS.

COMMITMENT E: STORM WATER

Construction activities constitute less than 1 acre of disturbance.

The above requirements will not apply to waste disposal sites that are covered by an individual solid waste permit as specified in SDCL 34A-6-58, SDCL 34A-6-1.13, and ARSD 74:27:10:06.

Failure to comply with the requirements stated above may result in civil penalties in accordance with South Dakota Solid Waste Law, SDCL 34A-6-1.31.

All costs associated with furnishing waste disposal site(s), disposing of waste, maintaining control of access (fence, gates, and signs), and reclamation of the waste disposal site(s) will be incidental to the various contract items.

Action Taken/Required:

At a minimum and regardless of project size, appropriate erosion and sediment control measures must be installed to control the discharge of pollutants from the construction site.

COMMITMENT H: WASTE DISPOSAL SITE

The Contractor will furnish a site(s) for the disposal of construction and/or demolition debris generated by this project.

Action Taken/Required:

Construction and/or demolition debris may not be disposed of within the Public ROW.

The waste disposal site(s) will be managed and reclaimed in accordance with the following from the General Permit for Construction/Demolition Debris Disposal Under the South Dakota Waste Management Program issued by the Department of Agriculture and Natural Resources.

The waste disposal site(s) will not be located in a wetland, within 200 feet of surface water, or in an area that adversely affects wildlife, recreation, aesthetic value of an area, or any threatened or endangered species, as approved by the Environmental Office and the Project Engineer.

If the waste disposal site(s) is located such that it is within view of any ROW, the following additional requirements will apply:

1. Construction and/or demolition debris consisting of concrete, asphalt concrete, or other similar materials will be buried in a trench separate from wood debris. The final cover over the construction and/or demolition debris will consist of a minimum of 1 foot of soil capable of supporting vegetation. Waste disposal sites provided outside of the Public ROW will be seeded in accordance with Natural Resources Conservation Service recommendations. The seeding recommendations may be obtained through the appropriate County NRCS Office. The Contractor will control the access to waste disposal sites not within the Public ROW with fences, gates, and placement of a sign or signs at the entrance to the site stating, "No Dumping Allowed".
2. Concrete and asphalt concrete debris may be stockpiled within view of the ROW for a period not to exceed the duration of the project. Prior to project completion, the waste will be removed from view of the ROW or buried, and the waste disposal site reclaimed as noted above.

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	OM 0902(196)59	Non	3/16

Revised 12/11/25 GDS

COMMITMENT I: HISTORIC PRESERVATION OFFICE CLEARANCES

The SDDOT has obtained concurrence with the State Historic Preservation Office (SHPO or THPO) for all work included within the project limits and all department designated sources and designated option material sources, stockpile sites, storage areas, and waste sites provided within the plans.

Action Taken/Required:

All earth disturbing activities not designated within the plans require a cultural resource review prior to scheduling the pre-construction meeting. This work includes but is not limited to: Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas.

The Contractor will arrange and pay for a record search and when necessary, a cultural resource survey. The Contractor has the option to contact the state Archaeological Research Center (ARC) at 605-394-1936 or another qualified archaeologist, to obtain either a records search or a cultural resources survey. A record search might be sufficient for review if the site was previously surveyed; however, a cultural resources survey may need to be conducted by a qualified archaeologist.

The Contractor will provide ARC with the following: a topographical map or aerial view in which the site is clearly outlined, site dimensions, project number, and PCN. If applicable, provide evidence that the site has been previously disturbed by farming, mining, or construction activities with a landowner statement that artifacts have not been found on the site.

The Contractor will submit the cultural resources survey report to SDDOT Environmental Office, 700 East Broadway Avenue, Pierre, SD 57501-2586. SDDOT will submit the information to the appropriate SHPO/THPO. Allow **30 Days** from the date this information is submitted to the Environmental Engineer for SHPO/THPO review.

In the event of an inadvertent discovery of human remains, funerary objects, or if evidence of cultural resources is identified during project construction activities, then such activities within 100 feet of the inadvertent discovery will immediately cease and the Project Engineer will be immediately notified. The Project Engineer will contact the SDDOT Environmental Office, who will contact the appropriate SHPO/THPO within 48 hours of the discovery to determine an appropriate course of action.

SHPO/THPO review does not relieve the Contractor of the responsibility for obtaining any additional permits and clearances for Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas that affect wetlands, threatened and endangered species, or waterways. The Contractor will not utilize a site known or suspected of having contaminated soil or water. The Contractor will provide the required permits and clearances to the Project Engineer at the preconstruction meeting.

UTILITIES

The Contractor will contact the involved utility companies through South Dakota One Call (1-800-781-7474) prior to starting work. It will be the responsibility of the Contractor to coordinate work with the utility owners to avoid damage to existing facilities.

Utilities are not planned to be affected on this project. If utilities are identified near the improvement area through the SD One Call Process as required by South Dakota Codified Law 49-7A and Administrative Rule Article 20:25, the Contractor will contact the project engineer to determine modifications that will be necessary to avoid utility impacts.

REMOVE FENCE

The Contractor will remove the existing barbed wire right-of-way fence that is to be replaced as designated in the plans and/or as ordered by the Engineer. This includes all fencing, posts, brace panels, or anything pertaining to the existing fence. Upon removal all items other than tubular gates will become property of contractor.

Limited Access Security - All barbed wire fence removed during any one working day is to be replaced during the same day. Contractor is responsible for any and all livestock encountered anywhere along the fence being replaced. Control of livestock during the time that any fence is being replaced is the sole responsibility of the Contractor. All costs of this work and any temporary fencing will be incidental to the contract unit price for the various fence items.

The Contractor will coordinate with landowners to ensure cattle are contained on the landowner's property.

CLEARING

Prior to installing right-of-way fence, the fence alignment will be cleared of all brush and various debris to allow for placement of new fence on existing alignment

The Contractor is responsible for visiting the project site and determining the amount of work involved with Clearing.

FENCE ALIGNMENT

Fence posts may be adjusted so not to fall in the same hole from removed fence.

The fence will be placed 1' inside the highway Right Of Way (ROW). The ROW has been monumented and marked. Contact the Rapid City Region Surveyor if there are questions related to the location of the ROW.

New and existing fence will be tied to existing structures as directed by the Engineer.

GATES, WIDE DEPRESSIONS, AND STREAM CROSSINGS

Prior to submitting a bid the Contractor will inspect the project site and determine the number of gates, wide depressions, and stream crossings.

RESTORATION OF INSLOPES AND DITCHES

Any slope area or ditch that is rutted or disturbed during fencing operations will be restored and seeded by the Contractor, at no expense to the State.

ROW SURVEY MARKERS

Any ROW survey markers that are damaged or destroyed during construction will be replaced by the Contractor at no additional cost to the State.

Table of Right-of-Way Fence							
MRM	Disp	to	MRM	Disp	E/W	Remove	6' Chain Link Fence with Tension Wired Top
						Direction	(Ft)
59	+ 0.506		60	+ 0.410	WB	4720	4720
59	+ 0.849				WB		1
61	+ 0.854		62	+ 0.510	WB	3540	3540
62.13	+ 0.691		62.13	+ 0.826	WB	720	720
63	+ 0.113		63	+ 0.317	WB	1080	1080
63	+ 0.417		64	+ 0.153	WB	4110	4110
						14170	14170
							2

SEQUENCE OF OPERATIONS

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

TRAFFIC CONTROL – GENERAL NOTES

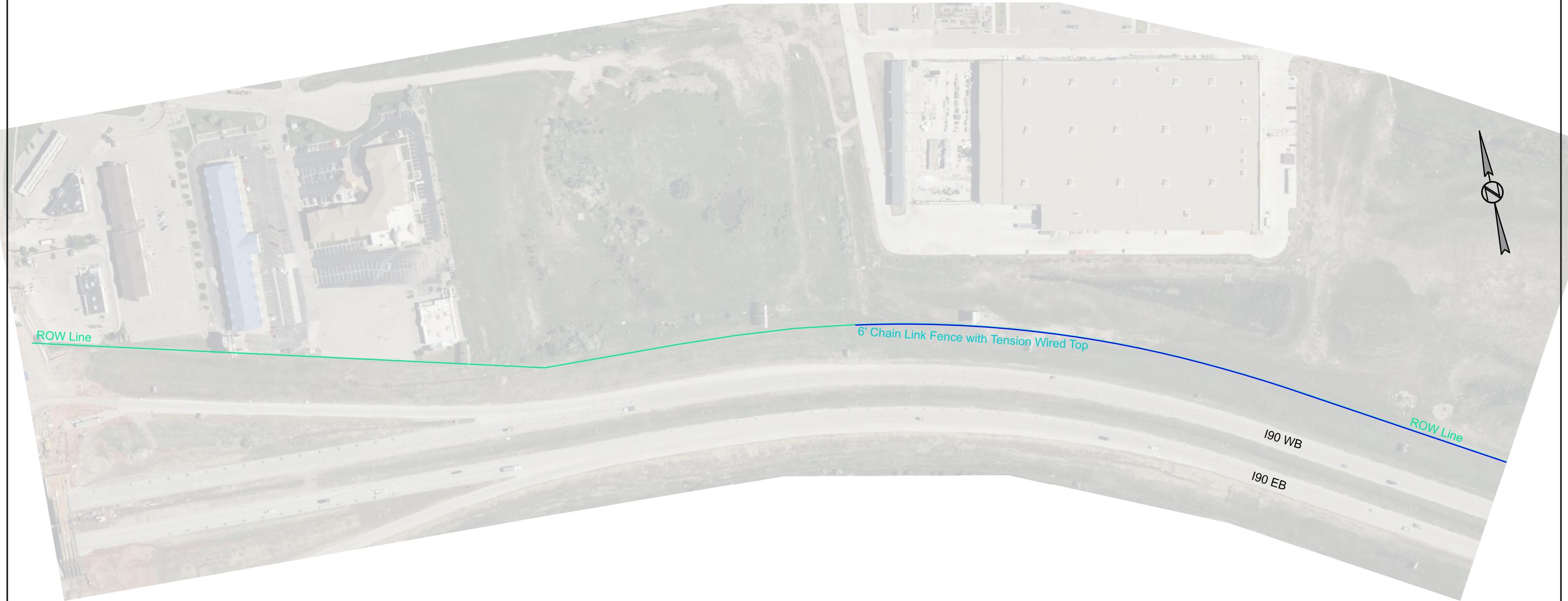
Unless otherwise stated in these plans, no work will be allowed during hours of darkness.

All haul trucks will be equipped with a second 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.

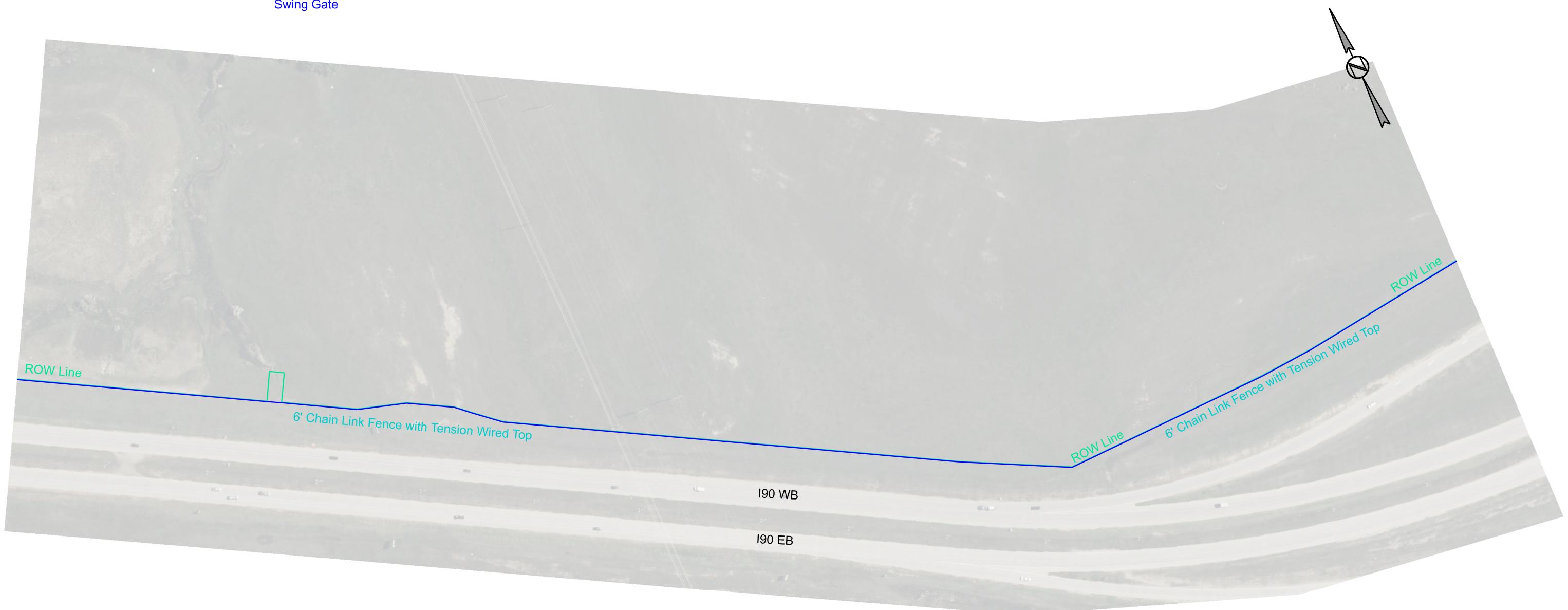
ITEMIZED LIST OF TRAFFIC CONTROL DEVICES

EXPRESSWAY / INTERSTATE					
SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W20-1	ROAD WORK AHEAD	2	48" x 48"	16.0	32.0
EXPRESSWAY / INTERSTATE TRAFFIC CONTROL SIGNS SQFT					32.0

MRM 59 + 0.506 WB
 Begin 6' Chain Link
 Fence with Tension
 Wired Top



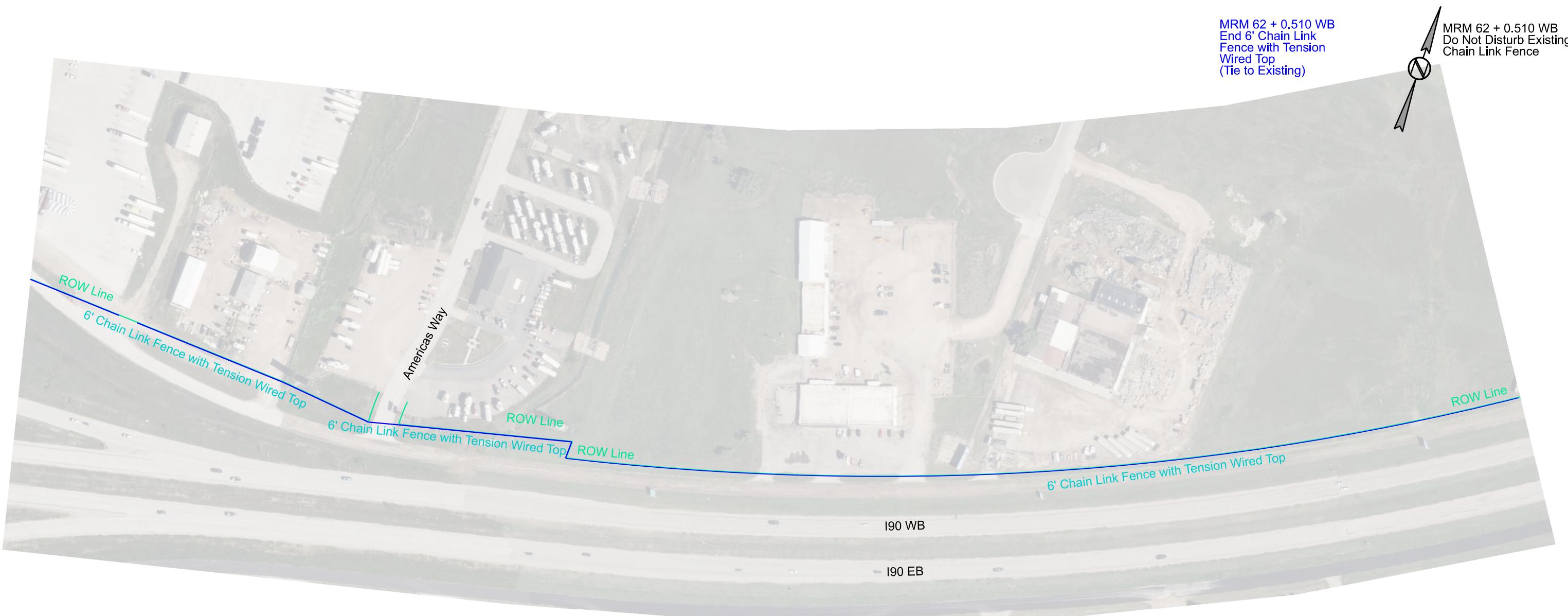
MRM 59+0.849 WB
30' Double Vehicular
Swing Gate



MRM 60+0.410 WB
 End 6' Chain Link
 Fence with Tension
 Wired Top





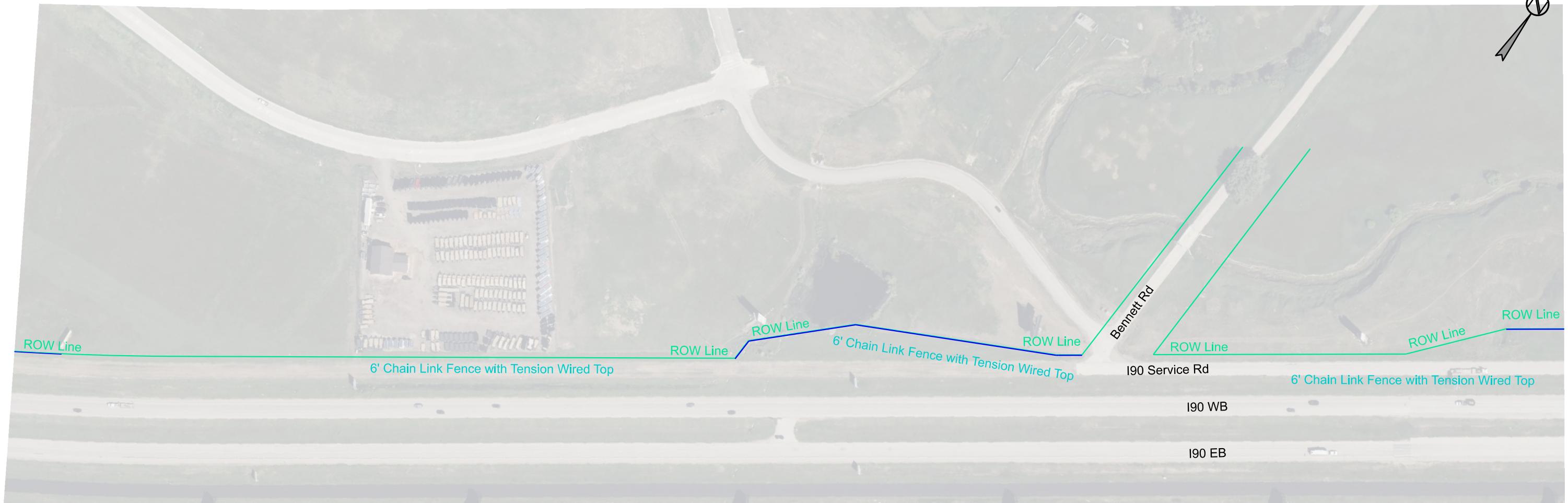


MRM 62 + 0.510 WB
Do Not Disturb Existing
Chain Link Fence

MRM 62.13 + 0.691 WB
Begin 6' Chain Link
Fence with Tension
Wired Top

MRM 62.13 + 0.826 WB
End 6' Chain Link
Fence with Tension
Wired Top

MRM 63 + 0.113
Begin 6' Chain Link
Fence with Tension
Wired Top

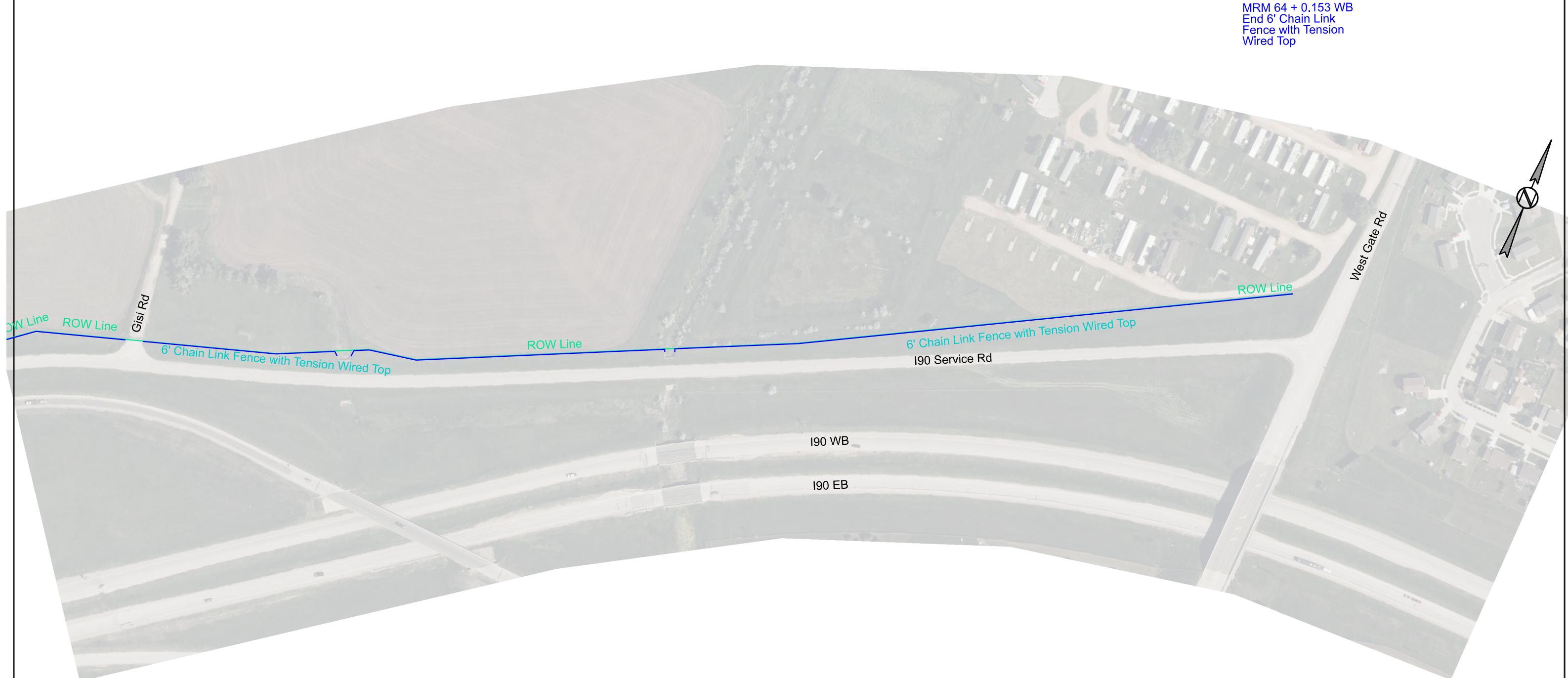


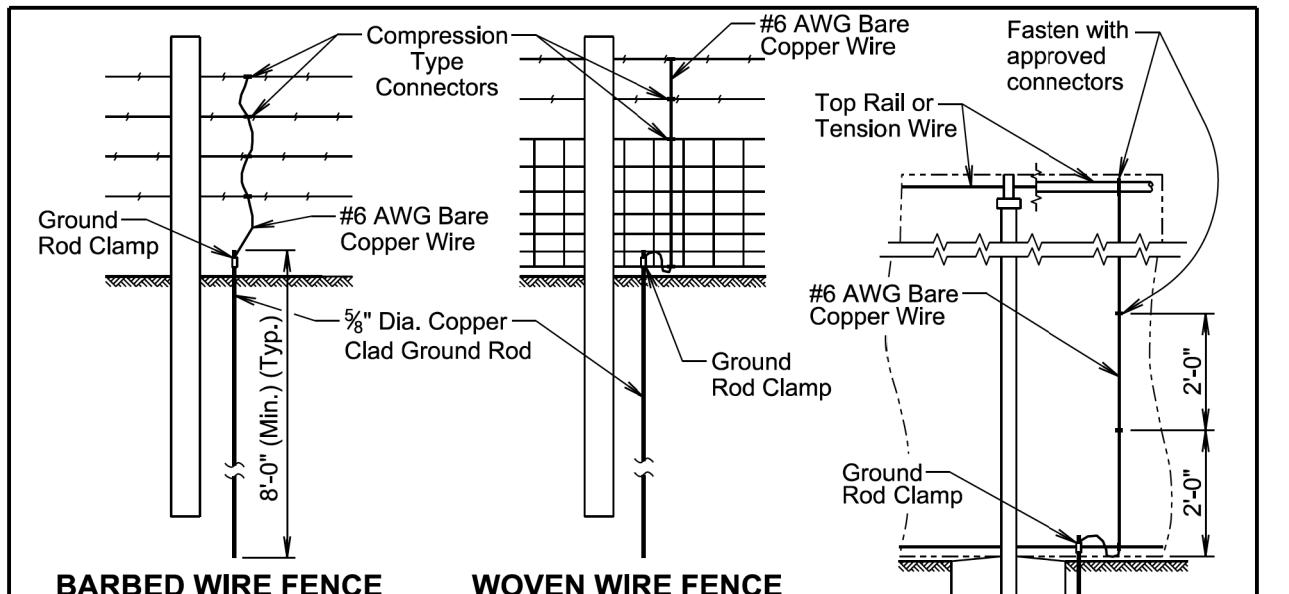
MRM 63 + 0.317 WB
End 6' Chain Link
Fence with Tension
Wired Top

MRM 63 + 0.417 WB
Begin 6' Chain Link
Fence with Tension
Wired Top

MRM 63 + 0.527 WB
Install 24' Double Vehicular
Swing Gate







BARBED WIRE FENCE

WOVEN WIRE FENCE

GENERAL NOTES:

Details shown on this standard plate will apply to all types of Right-of-Way fence constructed with all wood posts or chain link fence.

Continuous fence in urban areas will be grounded at maximum intervals of 500 feet. Continuous fence in rural areas will be grounded at maximum intervals of 1000 feet. There will be a ground at a maximum of 100 feet from a gate in each adjacent section of fence.

Fence placed under a power line will be grounded with three grounds. One ground will be placed directly below the crossing and the other two will be placed 25 feet to 50 feet away, one on each side.

One ground will be placed directly below each telephone or cable crossing.

Ground rods will be located on the post side of the fence and will be as close as possible to the post and fence.

The cost of furnishing and placing all materials for grounding will be incidental to the contract unit price per foot for the respective Right-of-Way fence or chain link fence contract item.

The approximate quantities of materials per each installation of a ground are:

- 1 ground rod clamp.
- 1 $\frac{5}{8}$ " diameter x 8' long copper clad ground rod
- 1 #6 AWG bare copper wire; 7' long for Right-of-Way fence or 10' long for chain link fence.

Compression type or other type of connectors:

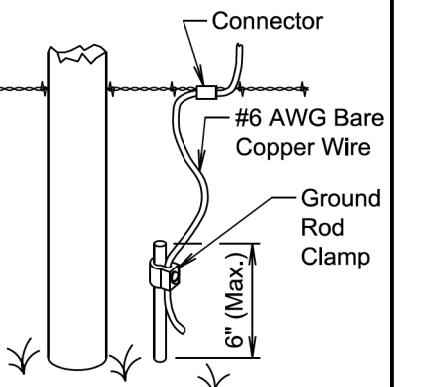
26" woven wire will have a total of two connectors, one secured to the top and one secured to the bottom.
32" woven wire will have a total of three connectors, one secured to the top, one secured to the middle, and one secured to the bottom.

One connector will be used for each strand of barbed wire.

A minimum of 3 connectors will be installed on chain link fence, the connectors will be placed vertically at every 2-foot increment and connectors will be placed on the top and bottom tension wires or top rail.



CHAIN LINK FENCE



GROUND ROD DETAIL

June 26, 2019

PLATE NUMBER

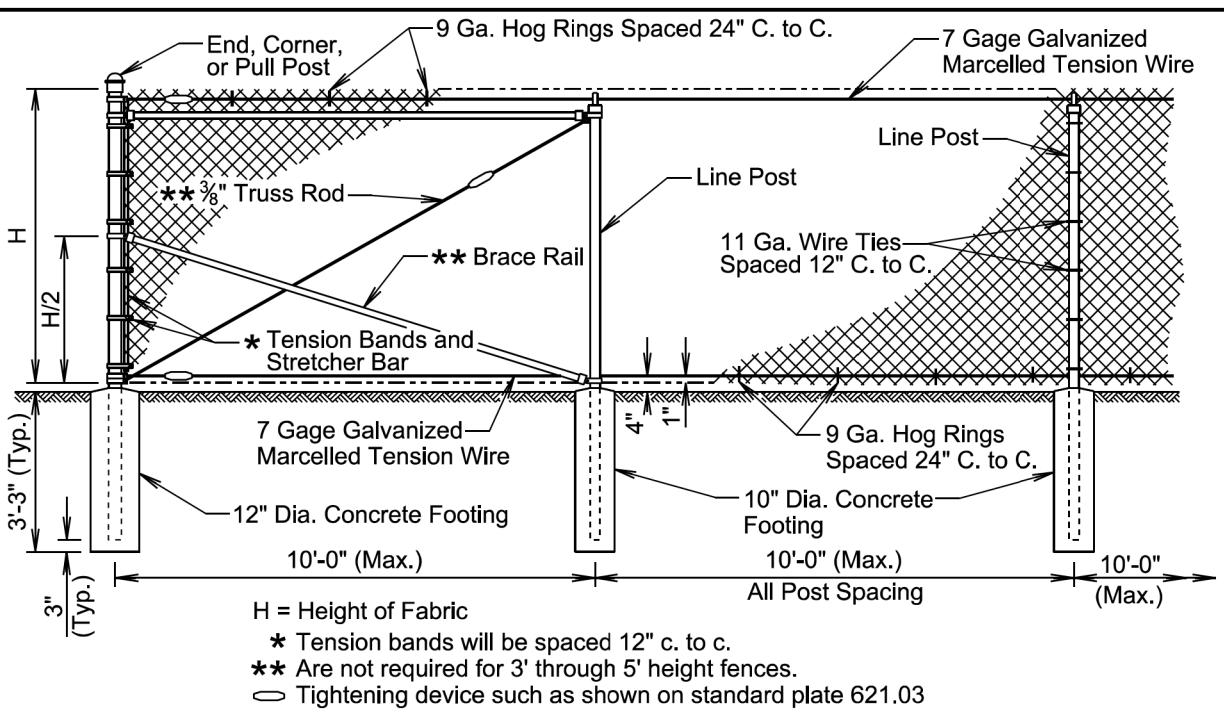
620.11

Sheet 1 of 1

Published Date: 2026

**SD
DOT**

FENCE GROUNDING



COMPONENT	END, CORNER, and PULL POST		LINE POST			BRACE RAIL	
Type of Fabrication	Round Pipe Nominal	Roll Formed Steel	Round Pipe Nominal	"C" Section	H Beam Steel	Round Pipe Nominal	Roll Formed Steel
Size	3.00" O. D.	3.5"x3.5"	2.50" O. D.	1.875"x1.625"	2.25"x1.70"	1.625" O. D.	1.625"x1.25"
Weight (lb. / Ft.)	5.79 or 4.64	5.14	3.65 or 3.12	2.34	3.43	2.27 or 1.84	1.35

GENERAL NOTES:

Specific details of the component parts of the fence will be approved by the Engineer. Commercially available items produced specifically for the use intended will be used wherever possible in the construction of the fence.

Height of the fabric will be as shown in the plans. Fabric is available at the following heights: 36", 42", 48", 60", 72", 84", 96", 108", 120", and 144". Fabric heights 60 inches and less will be knuckled at both selvages. Fabric heights 72 inches and higher will be knuckled at one selvage and twisted at the other selvage.

Chain link fabric will be 2-inch mesh, No. 9 gage galvanized wire securely fastened to tension wire, line post, rails, braces, and stretcher bars.

Fence may be constructed with either round pipe, "C" section, "H" beam, or roll formed steel components as shown in the table above. Line posts may be round pipe, "C" section, or "H" beam. The corner post and rails will be either round pipe or roll formed steel. The type of components used must be approved by the Engineer prior to installation.

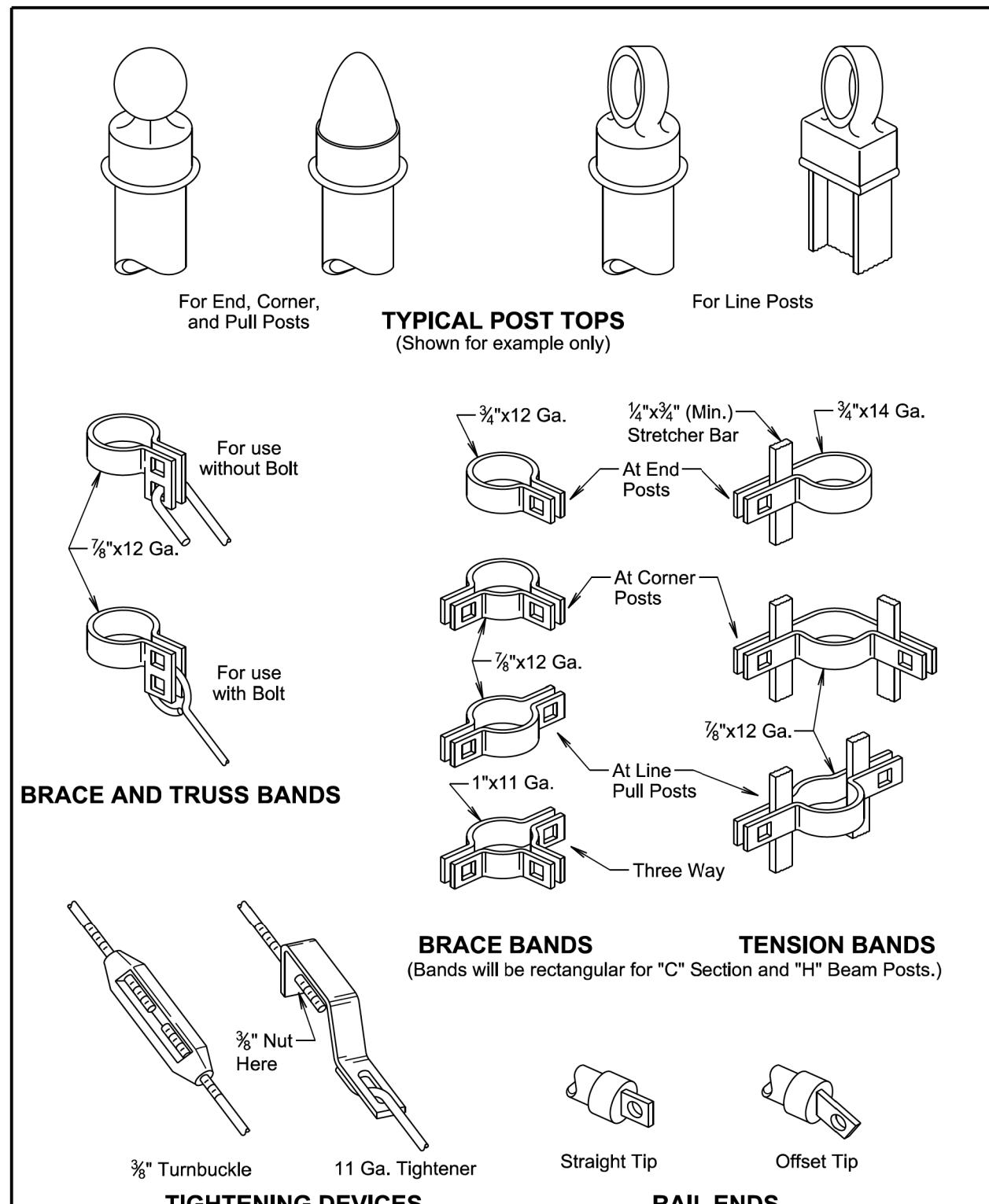
All posts will have a means to securely hold the top tension wire in position and allow for the removal and replacement of a post without damaging the top tension wire.

Where fence must cross small bodies of water such as drainage areas or ponds that could freeze during the winter, use 11 gage hog rings. Provide only two ties per tension wire between line posts.

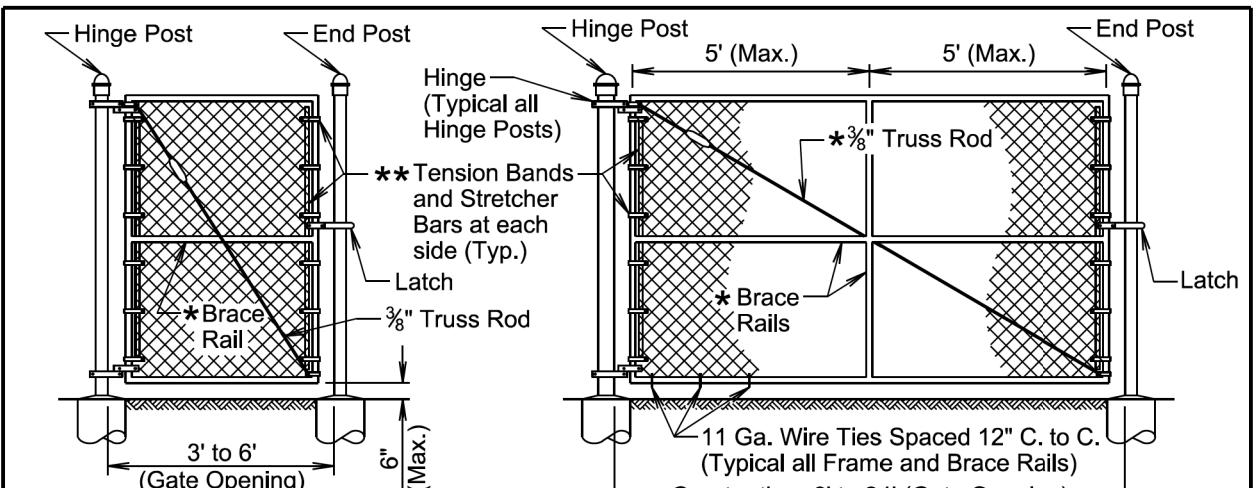
Fence grounding will be as shown on standard plate 620.11.

November 19, 2022

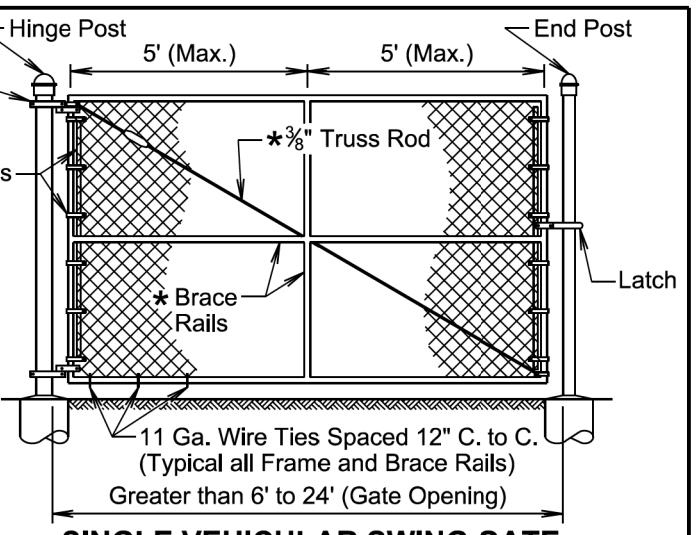
Published Date: 2026	SDOT	CHAIN LINK FENCE WITH TENSION WIRED TOP	PLATE NUMBER 621.02
			Sheet 1 of 1



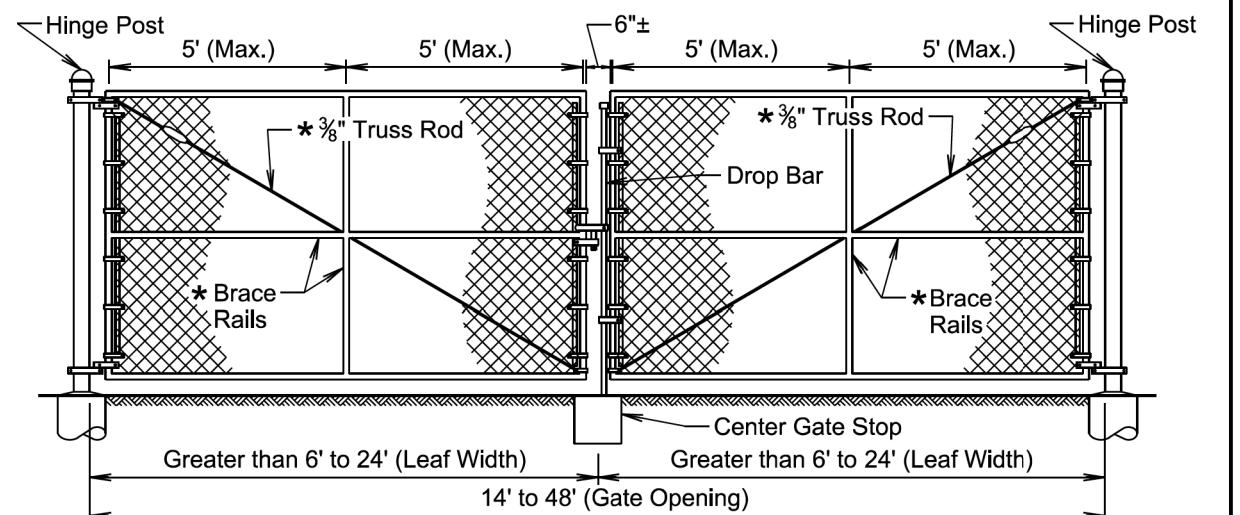
Published Date: 2026	SDOT	HARDWARE FOR CHAIN LINK FENCE	PLATE NUMBER 621.03
			Sheet 1 of 1



PEDESTRIAN SWING GATE



SINGLE VEHICULAR SWING GATE



DOUBLE VEHICULAR SWING GATE

1 Gate Opening Width	Hinge Post		Concrete Footing	
	Round Pipe Nominal	Roll Formed Steel	Depth	Diameter
3' to 6'	3.00"	3.50"x3.50"	36"	12"
> 6' to 13'	4.00"	—	42"	12"
> 13' to 18'	6.625"	—	48"	18"
> 18' to 23'	8.625"	—	48"	24"

* Are not required for gates 3' to 5' height or 5' or less in width.

** Tension Bands will be spaced 12" center to center.

— Tightening Device such as shown on standard plate 621.03

1 Leaf width for Double Vehicular Swing Gate

2 Will coincide with fence height

GENERAL NOTES:

Gate frames may be constructed of bent or welded steel tubing, must be approved by the Engineer prior to installation, and installed in accordance with the Manufacturer's installation instructions.

Center gate stops must be approved by the Engineer prior to installation and will be installed in accordance with the Manufacturer's installation instructions.

June 26, 2019

Gate Opening	Frame Pipe Nominal	Brace Rail Pipe Nominal
1 Width	2 Height	
3' to 8'	3' to 6'	1.50"
>8' to 23'	6'	1.90"
>8' to 23'>6' to 12'	1.90"	1.90"

SWING GATES FOR CHAIN LINK FENCE

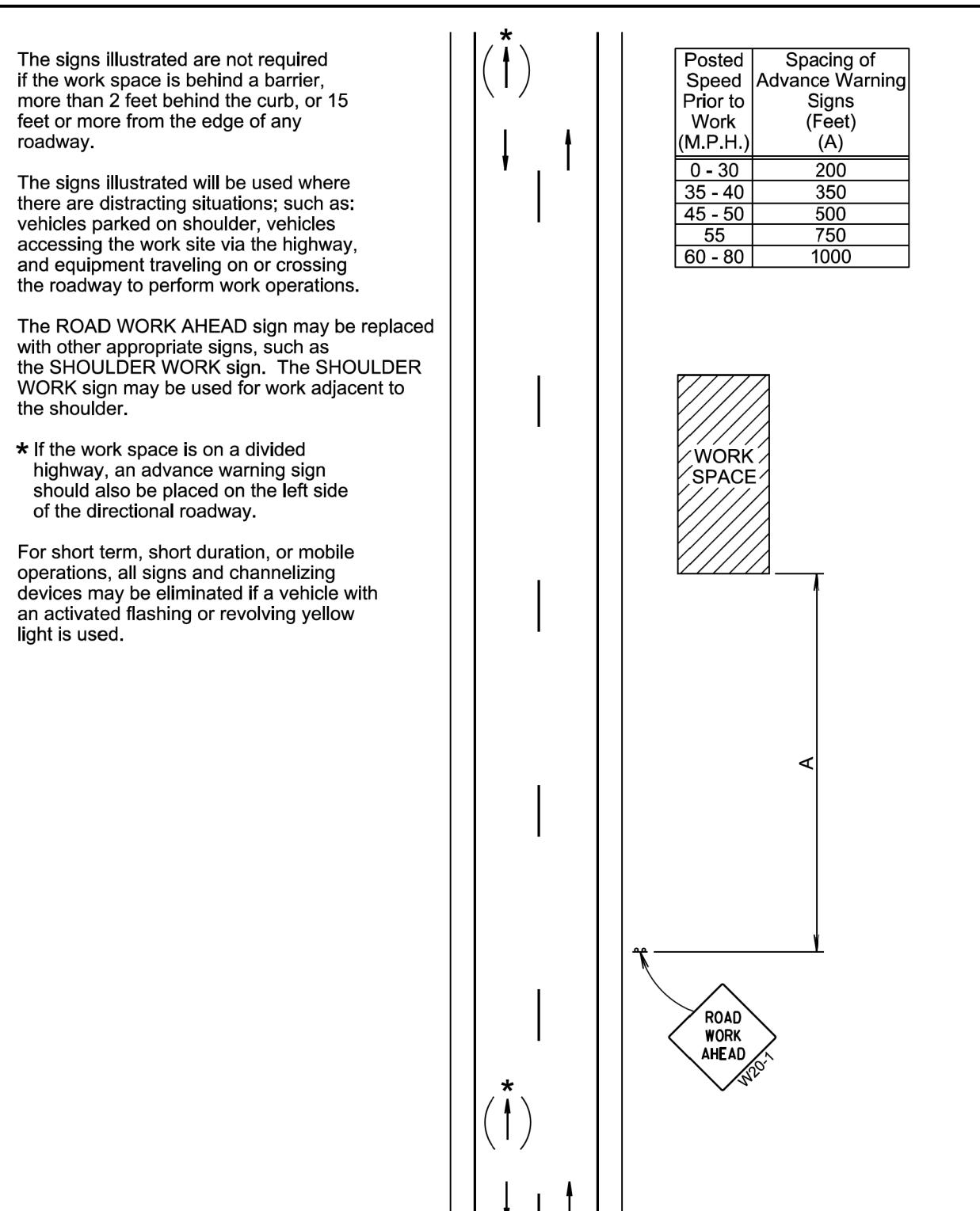
PLATE NUMBER

621.10

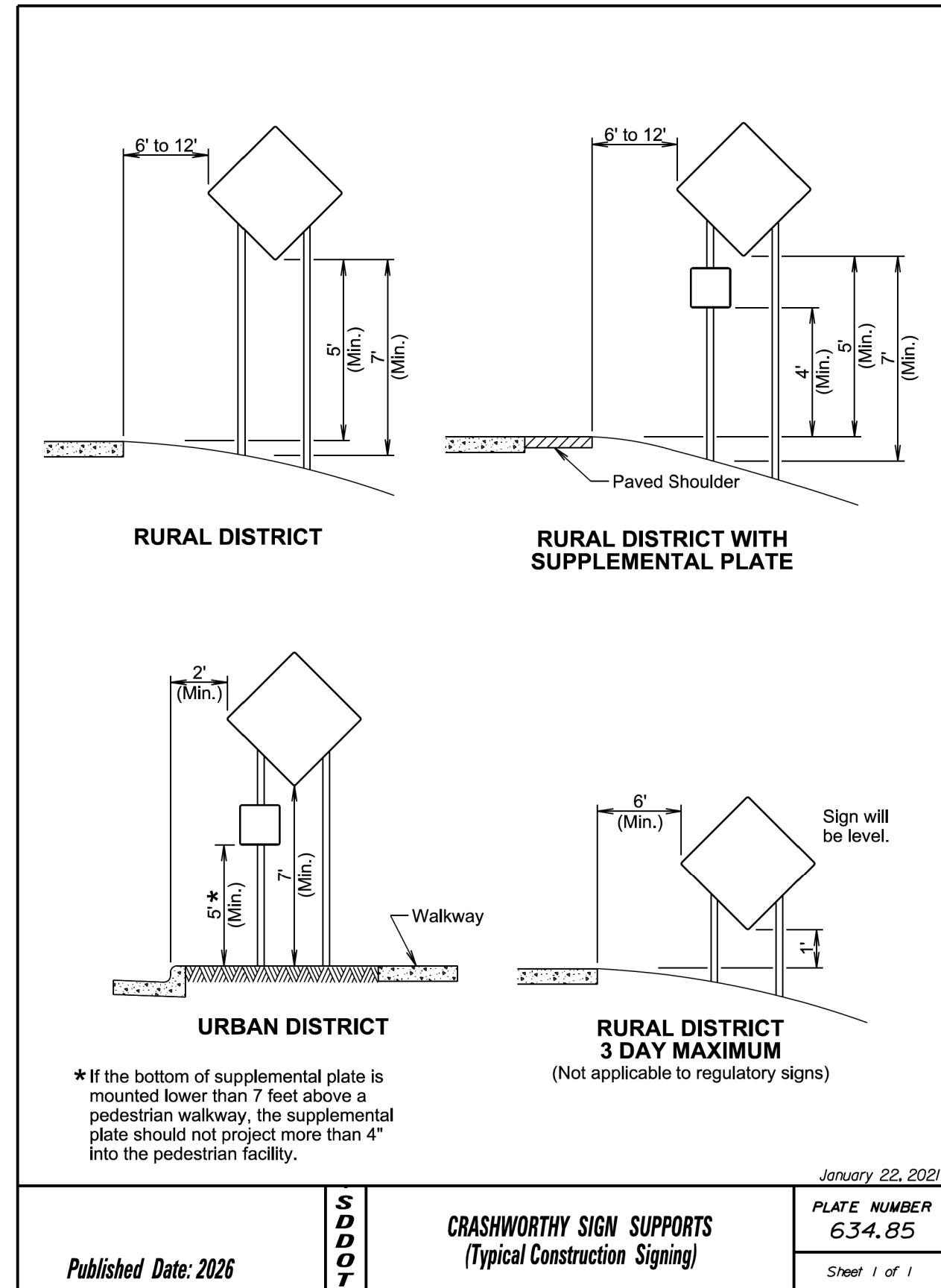
Sheet 1 of 1

Published Date: 2026

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Published Date: 2026		WORK BEYOND THE SHOULDER	PLATE NUMBER 634.01
			Sheet 1 of 1



Published Date: 2026		CRASHWORTHY SIGN SUPPORTS (Typical Construction Signing)	PLATE NUMBER 634.85
			Sheet 1 of 1

