STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	0009-392	1	7

STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION

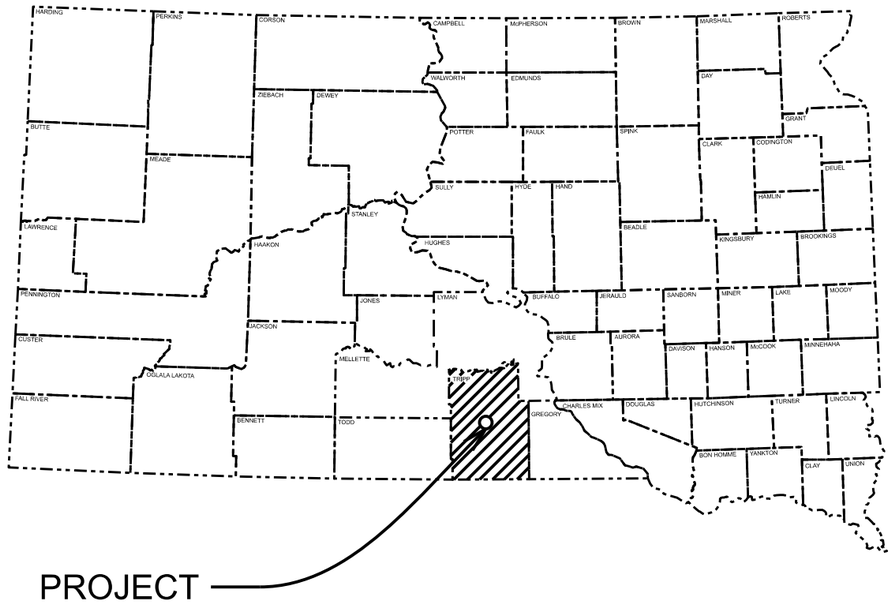
PLANS FOR PROPOSED

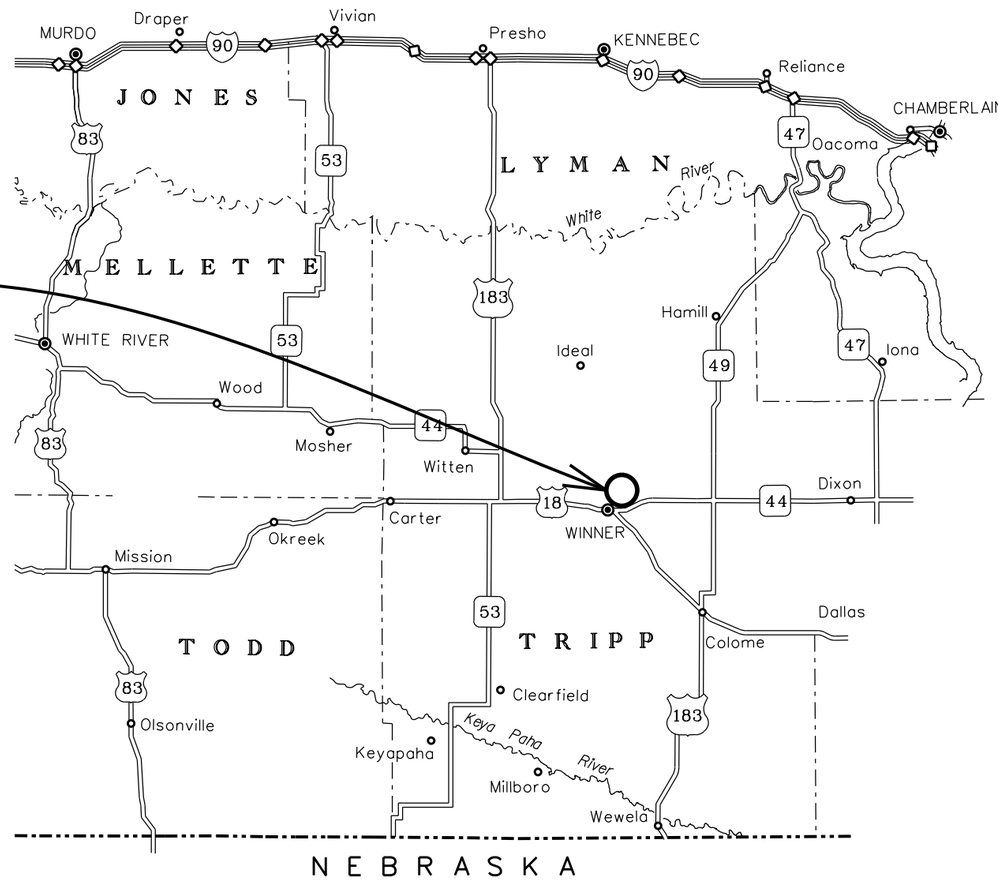
PROJECT 0009-392

SDDOT WINNER AREA YARD

WINNER YARD PERIMETER FENCE AND GATE

PCN i7pf





PROJECT LOCATION IS DESIGNATED BY THE CIRCLE ON MAP ABOVE.

O = SDDOT WINNER AREA YARD IN WINNER, SD

INDEX OF SECTIONS

Sheet No. 1	Title Sheet
Sheet No. 2-4	Estimate of Quantities & Plan Notes
Sheet No. 5	Winner Yard Layout
Sheet No. 6-7	Standard Plates

STORM WATER PERMIT
NO PERMIT REQUIRED

Estimate of Quantities

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
* 009E0010	Mobilization	Lump Sum	LS
* 100E0100	Clearing	Lump Sum	LS
* 110E0605	Remove Chain Link Fence	2,690	Ft
* 621E0070	7' Chain Link Fence with Top Rail	2,690	Ft
* 621E0450	Double Vehicular Sliding Gate	1	Each

*** - Denotes Non-Participating**

SPECIFICATIONS

Standard Specifications for Roads and Bridges, 2015 Edition and Required Provisions, Supplemental Specifications, and Special Provisions as included in the Proposal.

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 E: STORM WATER

Construction activities constitute less than 1 acre of disturbance.

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.

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.

COMMITMENT I: HISTORICAL PRESERVATION OFFICE CLEARANCES

State Historical Preservation Office (SHPO or THPO) concurrence has not been obtained for this project.

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. The Contractor is responsible 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.

GENERAL NOTES

Contractor will furnish and install chain link fence system around the entire perimeter of the Winner Area Maintenance yard, and as needed for a complete and proper installation.

The concrete used on the project shall conform to the requirements of Class M6 concrete.

The Engineer will approve all fencing materials prior to their installation.

The Contractor will be required to install extension arms and barbed wire according to Standard Plate 621.04 on all sections of chain link fence including the Double Vehicular Sliding Gate.

All mechanical equipment needed to perform the required work will be operated from within the confines of the existing yard. Equipment will not be allowed on adjacent property. No trespassing on private property will be allowed while performing the required work.

UTILITIES

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.

SEQUENCE OF OPERATIONS

The Contractor will submit a sequence of operations for approval two weeks prior to the preconstruction meeting. Approval of an alternate sequence of operations will only be allowed when the proposed changes meet with the Department's intent for sequencing of the work. An alternate sequence will be submitted for review a minimum of one week prior to potential implementation.

Work at the SD DOT Winner Area Yard will be coordinated with Brad Norrid, Engineering Supervisor Winner (605-961-4926) to ensure that construction has minimal interference with normal operations for SD DOT.

CLEARING

Prior to installing the new chain link fence, the fence alignment shall be cleared of all trees, tree branches, tree stumps, brush, vegetation and debris. After clearing, the area shall be leveled to the satisfaction of the Engineer prior to the installation of the new chain link fence.

Clearing will be paid for at the contract lump sum price for "Clearing". Payment shall be full compensation for labor and equipment necessary to clear the entire line for the fence and level ground irregularities.

REMOVE FENCE

The Contractor will remove the existing chain link fence that is to be replaced as designated in the plans and/or as ordered by the Engineer. Fence removed will become the property of the Contractor. Salvaged material may be temporarily stored in the Winner Area Yard as approved by the Engineer. Stockpiled material will be removed from the project on a weekly basis.

DOUBLE VEHICULAR SLIDING GATE

A new 32' Double Vehicular Sliding Gate shall be installed at the same location as the existing gate leading into the DOT Maintenance Yard in Winner.

The new Double Vehicular Sliding Gate will conform to Standard Plate 621.10 with the exceptions noted below. The Contractor will refer to the additional requirements of this contract listed below:

Gate Hardware: Provide the following for each gate:

A. Rollers:

1. Rollers shall be nylon, graphite impregnated, UV stablilized and a full 7" in diameter.

B. Latches:

1. Provide locking device and padlock eyes as an integral part of the latch, requiring one padlock for locking both gate leaves.

C. Gates:

1. The gates will be two 16' sliding gates opening in each direction.

CHAIN LINK FENCE

New fence will be installed along the same alignment as the removed fence unless otherwise directed by the Engineer. Property pins are in place and will be followed when establishing the new alignment. It will be the responsibility of the Contractor to mark the new alignment.

The Contractor will refer to Section 621 of the Standard Specifications.

The Contractor will refer to the additional requirements of this contract listed below:

Installing Chain Link Fence:

A. Concrete Strength:

1. Allow concrete to attain at least 75% of its minimum 28-day strength before rails, tension wire, and/or fabric is installed.

2. Do not, in any case, install such items in less than seven days after placement of concrete.

3. Do not stretch and tension fabric and wire or hang gates, until concrete has attained its full design strength.

B. Rails and bracing:

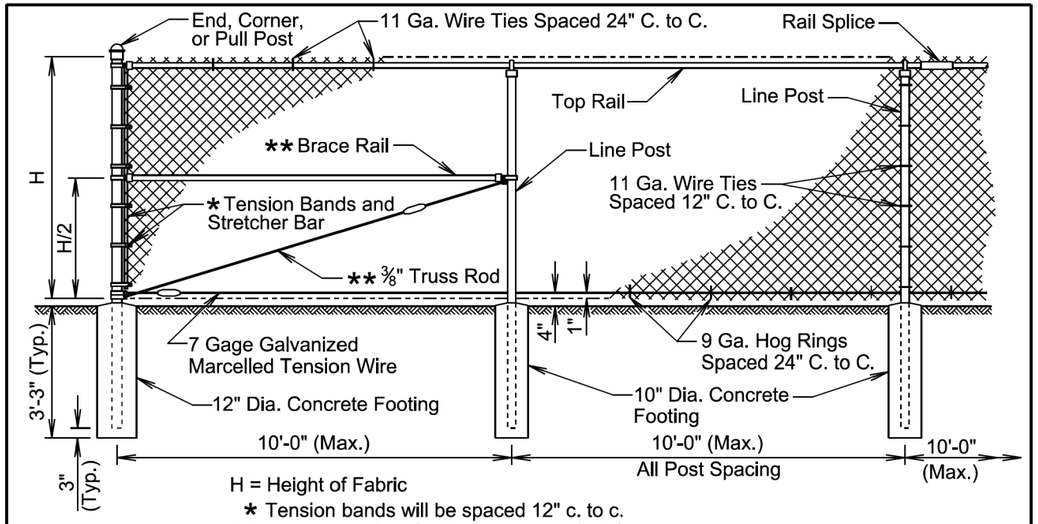
1. Provide expansion couplings as recommended by the fencing manufacturer.

2. Provide bracing to the midpoint of the nearest line post or posts at all end, corner, slope, pull, and gate posts.

Table of Fence Quantities

Fence Site	Remove Fence (Ft)	6' Chain Link Fence with Top Rail (Barbed Wire Top) (Ft)	Comments/Fence type changes
South Perimeter Fence	530	530	Remove 530' of existing chain link fence with top rail and barbed wire top and install 530' of new 7' chain link fence with top rail and barbed wire top. Install a 32' Double Vehicular Sliding Gate (7' Height) with barbed wire top in the same location as the existing vehicular gate located along the South fence line at this site.
North Perimeter Fence	530	530	Remove 530' of existing chain link fence with top rail and barbed wire top and install 530' of new 7' chain link fence with top rail and barbed wire top.
East Perimeter Fence	815	815	Remove 815' of existing chain link fence with top rail and barbed wire top and install 850' of new 7' chain link fence with top rail and barbed wire top.
West Perimeter Fence	815	815	Remove 815' of existing chain link fence with top rail and barbed wire top and install 815' of new 7' chain link fence with top rail and barbed wire top.
TOTAL	**2,690**	**2,690**	

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	0009-392	5	7



H = Height of Fabric

* Tension bands will be spaced 12" c. to c.

** Are not required for 3' through 5' height fences.

⬭ Tightening device such as shown on standard plate 621.03

COMPONENT	END, CORNER, and PULL POST		LINE POST			TOP and 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.

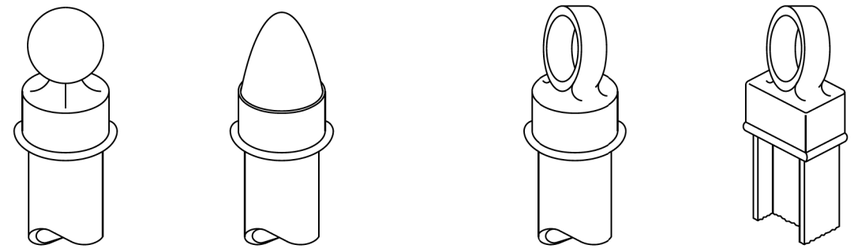
Where fence must cross small bodies of water such as drainage areas or ponds that could freeze during the winter, use 11 gage hog rings. Provide only two ties per tension wire and top rail between line posts.

A suitable method of rail splicing will be used to allow for expansion and contraction while maintaining proper position of the top rail.

Fence grounding will be as shown on standard plate 620.11.

November 19, 2022

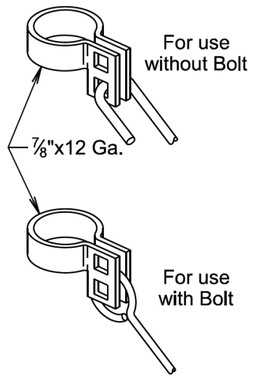
Published Date: 2025	SDDOT	*CHAIN LINK FENCE WITH TOP RAIL*	*PLATE NUMBER* 621.01
			Sheet 1 of 1



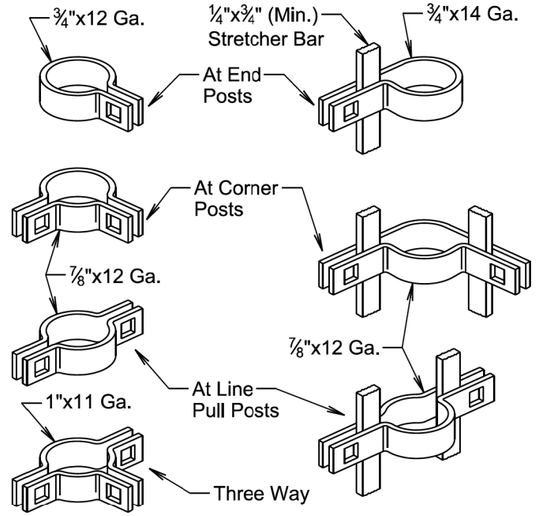
For End, Corner, and Pull Posts

For Line Posts

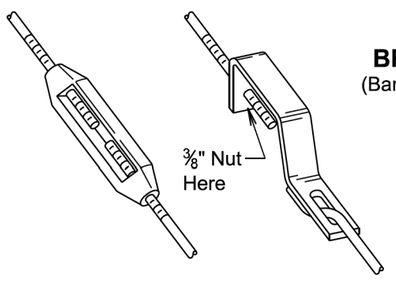
TYPICAL POST TOPS
(Shown for example only)



BRACE AND TRUSS BANDS

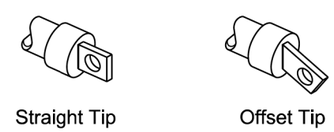


BRACE BANDS **TENSION BANDS**
(Bands will be rectangular for "C" Section and "H" Beam Posts.)



3/8" Turnbuckle 11 Ga. Tightener

TIGHTENING DEVICES

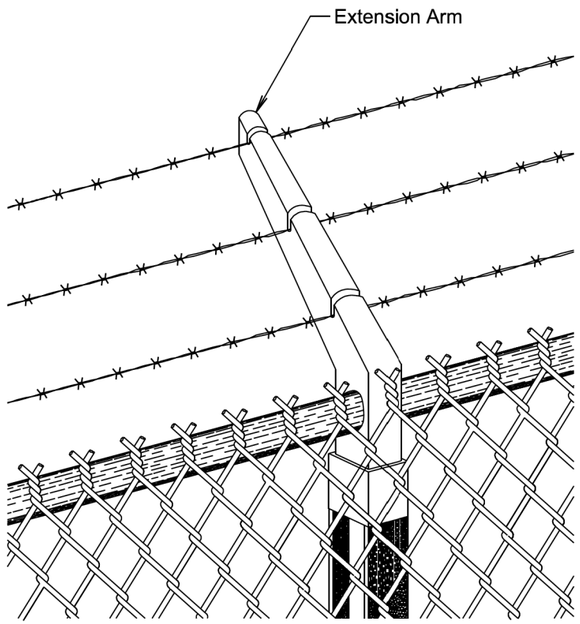


Straight Tip Offset Tip

RAIL ENDS

June 26, 2019

Published Date: 2025	SDDOT	*HARDWARE FOR CHAIN LINK FENCE*	*PLATE NUMBER* 621.03
			Sheet 1 of 1



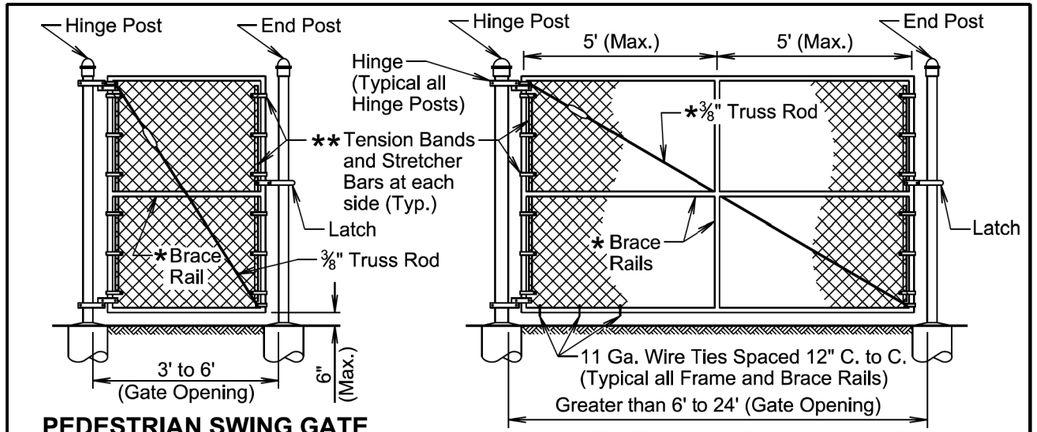
GENERAL NOTES:

Extension arms will be hot dipped galvanized. End and corner arms will be malleable iron. Intermediate arms may be pressed steel. Arms will have sealed caps and three slots to accommodate the barbed wires. The top wire will be 12 inches above the fabric and 12 inches out from the fence line at an angle of approximately 45°. Adjustable arms may be used. Barbed wire will be two strand 12½ gauge wire with four point round barbs spaced on 5 inch centers.

Extra payment will not be made for extension arms with barbed wire. Extension arms with barbed wire will be incidental to the respective "Chain Link Fence" contract item. When extension arms with barbed wire are attached to gates, the payment for the extension arms with barbed wire will be incidental to the respective "Gate" contract item.

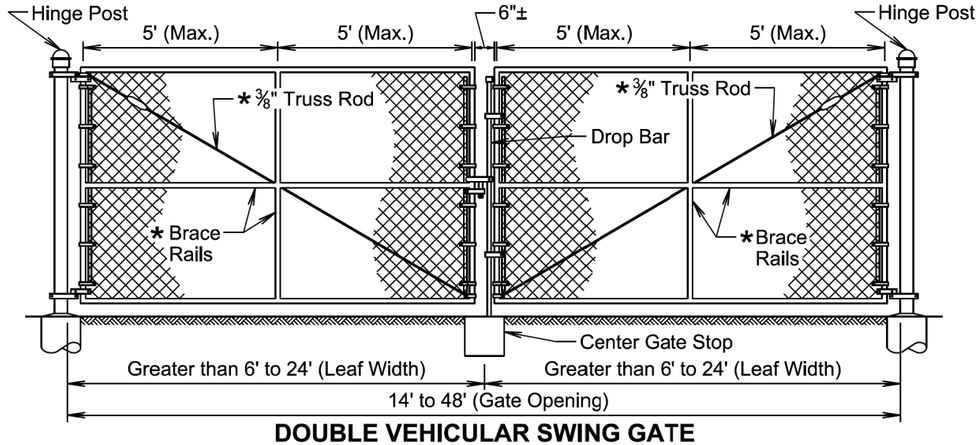
June 26, 2019

Published Date: 2025	SDDOT	BARBED WIRE TOP FOR CHAIN LINK FENCE	PLATE NUMBER 621.04
			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"

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

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

** Tension Bands willl 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

Published Date: 2025	SDDOT	SWING GATES FOR CHAIN LINK FENCE	PLATE NUMBER 621.10
			Sheet 1 of 1