

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	000I-469, 000N-469 & 000P-469	1	30
Plotting Date:	09/11/2013		

INDEX OF SHEETS

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ESTIMATE OF QUANTITIES, 000I-469, PCN i37j, (Interstate)

Bid Item Number	Item	Quantity	Unit
009E0198	Mobilization 2	2	Each
110E0700	Remove 3 Cable Guardrail	25	Ft
110E0730	Remove Beam Guardrail	100.0	Ft
110E0770	Remove W Beam Guardrail Breakaway Cable Terminal	1	Each
110E0800	Remove W Beam Guardrail End Terminal	1	Each
110E6230	Remove W Beam Guardrail for Reset	25.0	Ft
629E0100	3 Cable Guardrail	100	Ft
629E0110	NCHRP 350 Test Level 3 High Tension Cable Guardrail	100	Ft
629E0290	NCHRP 350 Test Level 3 High Tension Cable Guardrail Anchor Assembly	1	Each
629E0300	3 Cable Guardrail Slip Base Anchor Assembly	1	Each
629E1000	Repair 3 Cable Guardrail	100	Ft
629E1100	3 Cable Guardrail End Post	3	Each
529E1102	3 Cable Guardrail Intermediate Post	10	Each
629E1104	3 Cable Guardrail Post, Winter	15	Each
329E1106	Drive Down 3 Cable Guardrail Post	10	Each
629E1110	Cable Anchor Bracket	1	Each
629E1112	Cable Splice	1	Each
629E1114	3 Cable Guardrail J Hook Bolt	100	Each
529E1116	Steel Turnbuckle Cable End Assembly	1	Each
529E1118	Spring Cable End Assembly with Turnbuckle	2	Each
529E1120	W Beam to 3 Cable Transition Bracket	1	Each
529E1122	3 Cable Guardrail End Post Cap	5	Each
630E0200	Straight Class A Thrie Beam Rail	12.5	Ft
630E0210	Straight Class B Thrie Beam Rail	12.5	Ft
630E1150	Straight Double Class B W Beam Guardrail with Wood Posts	12.5	Ft
630E1200	Straight Class A W Beam Rail	75.0	Ft
630E1210	Straight Class B W Beam Rail	25.0	Ft
30E2000	W Beam to Thrie Beam Guardrail Transition	1	Each
630E2015	W Beam Guardrail Flared End Terminal	1	Each
30E2020	W Beam Guardrail Tangent End Terminal	1	Each
630E2030	W Beam Guardrail Breakaway Cable Terminal	1	Each
630E2110	Beam Guardrail Post and Block	10	Each
630E2120	Beam Guardrail Post and Block, Winter	5	Each
630E2210	Breakaway Cable Terminal End Rail	1	Each
630E2215	W Beam Guardrail End Section Buffer	1	Each
630E5120	Reset Thrie Beam Rail	12.5	Ft
630E5160	Reset W Beam Rail	12.5	Ft
630E5170	Reset Double W Beam Rail	12.5	Ft
630E5520	Drive Down Beam Guardrail Post	3	Each
630E5550	Reset Beam Guardrail Post and Block	5	Each
634E0010	Flagging	3	Hou
634E0125	Traffic Control for Guardrail Repair	2	Site
634E0420	Type C Advance Warning Arrow Panel	1	Each

WORK DESCRIPTION

Work on the contract shall include the following:

1. Repair of guardrail at various locations in the Rapid City Region on a demand basis.

SPECIFICATIONS

Standard Specifications for Roads & Bridges, 2004 Edition and Required Provisions, Supplemental Specifications and/or Special Provisions as included in the Proposal.

ESTIMATE OF QUANTITIES, 000N-469, PCN i37k, (Non-Priority)

Bid Item Number

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009E0198

009E0199

110E0700

110E0730

110E0770

110E0800

110E6230

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629E1000

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630E5120

630E5160

630E5170

630E5520

630E5550

634E0010

634E0125

634E0420

UTILITIES

Bid Item Number	Item	Quantity	Unit
009E0197	Mobilization 1	2	Each
009E0198	Mobilization 2	2	Each
009E0199	Mobilization 3	2	Each
110E0700	Remove 3 Cable Guardrail	25	Ft
110E0730	Remove Beam Guardrail	100.0	Ft
110E0770	Remove W Beam Guardrail Breakaway Cable Terminal	1	Each
110E0800	Remove W Beam Guardrail End Terminal	1	Each
110E6230	Remove W Beam Guardrail for Reset	25.0	Ft
629E0100	3 Cable Guardrail	100	Ft
629E0300	3 Cable Guardrail Slip Base Anchor Assembly	1	Each
629E1000	Repair 3 Cable Guardrail	100	Ft
629E1100	3 Cable Guardrail End Post	3	Each
629E1102	3 Cable Guardrail Intermediate Post	10	Each
629E1104	3 Cable Guardrail Post, Winter	15	Each
629E1106	Drive Down 3 Cable Guardrail Post	10	Each
629E1110	Cable Anchor Bracket	1	Each
629E1112	Cable Splice	1	Each
629E1114	3 Cable Guardrail J Hook Bolt	100	Each
629E1116	Steel Turnbuckle Cable End Assembly	1	Each
629E1118	Spring Cable End Assembly with Turnbuckle	2	Each
629E1120	W Beam to 3 Cable Transition Bracket	1	Each
629E1122	3 Cable Guardrail End Post Cap	5	Each
630E0200	Straight Class A Thrie Beam Rail	12.5	Ft
630E0210	Straight Class B Thrie Beam Rail	12.5	Ft
630E1150	Straight Double Class B W Beam Guardrail with Wood Posts	12.5	Ft
630E1200	Straight Class A W Beam Rail	75.0	Ft
630E1210	Straight Class B W Beam Rail	25.0	Ft
630E2000	W Beam to Thrie Beam Guardrail Transition	1	Each
630E2015	W Beam Guardrail Flared End Terminal	1	Each
630E2020	W Beam Guardrail Tangent End Terminal	1	Each
630E2030	W Beam Guardrail Breakaway Cable Terminal	1	Each
630E2110	Beam Guardrail Post and Block	10	Each
630E2120	Beam Guardrail Post and Block, Winter	5	Each
630E2210	Breakaway Cable Terminal End Rail	1	Each
630E2215	W Beam Guardrail End Section Buffer	1	Each
630E5120	Reset Thrie Beam Rail	12.5	Ft
630E5160	Reset W Beam Rail	12.5	Ft
630E5170	Reset Double W Beam Rail	12.5	Ft
630E5520	Drive Down Beam Guardrail Post	3	Each
630E5550	Reset Beam Guardrail Post and Block	5	Each
634E0010	Flagging	3	Hour
634E0125	Traffic Control for Guardrail Repair	6	Site
634E0420	Type C Advance Warning Arrow Panel	1	Each

CONTRACT TIME PROVISIONS

- 1. The contract will expire on September 30, 2014.
- 2. At such time as repairs are required, the Contractor will be notified. The Contractor will have 7 calendar days to complete the repairs.

The Contractor shall contact the involved utility companies through South Dakota One Call (1-800-781-7474) prior to starting work. It shall 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 shall contact the Project Engineer to determine modifications that will be necessary to avoid utility impacts.

STATE	SHEET	TOTAL SHEETS
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ESTIMATE OF QUANTITIES, 000P-469, PCN i37I, (Priority)

Item	Quantity	Unit
Mobilization 1	2	Each
Mobilization 2	2	Each
Mobilization 3	2	Each
Remove 3 Cable Guardrail	25	Ft
Remove Beam Guardrail	100.0	Ft
Remove W Beam Guardrail Breakaway Cable	1	Each
Terminal	<i>i</i> .	Luon
Remove W Beam Guardrail End Terminal	1	Each
Remove W Beam Guardrail for Reset	25.0	Ft
3 Cable Guardrail	100	Ft
3 Cable Guardrail Slip Base Anchor Assembly	1	Each
Repair 3 Cable Guardrail	100	Ft
3 Cable Guardrail End Post	3	Each
3 Cable Guardrail Intermediate Post	10	Each
3 Cable Guardrail Post, Winter	15	Each
Drive Down 3 Cable Guardrail Post	10	Each
Cable Anchor Bracket	1	Each
Cable Splice	1	Each
3 Cable Guardrail J Hook Bolt	100	Each
Steel Turnbuckle Cable End Assembly	1	Each
Spring Cable End Assembly with Turnbuckle	2	Each
W Beam to 3 Cable Transition Bracket	1	Each
3 Cable Guardrail End Post Cap	5	Each
Straight Class A Thrie Beam Rail	12.5	Ft
Straight Class & Thrie Beam Rail	12.5	Ft
Straight Double Class B W Beam Guardrail with	12.5	Ft
Wood Posts	12.5	FL
Straight Class A W Beam Rail	75.0	Ft
Straight Class B W Beam Rail	25.0	Ft
W Beam to Thrie Beam Guardrail Transition	1	Each
W Beam Guardrail Flared End Terminal	1	Each
W Beam Guardrail Tangent End Terminal	1	Each
W Beam Guardrail Breakaway Cable Terminal	1	Each
Beam Guardrail Post and Block	10	Each
Beam Guardrail Post and Block, Winter	5	Each
Breakaway Cable Terminal End Rail	1	Each
W Beam Guardrail End Section Buffer	1	Each
Reset Thrie Beam Rail	12.5	Ft
Reset W Beam Rail	12.5	Ft
Reset Double W Beam Rail	12.5	Ft
Drive Down Beam Guardrail Post	3	Each
Reset Beam Guardrail Post and Block	5	Each
Flagging	3	Hour
Traffic Control for Guardrail Repair	6	Site
rune control for oudruran riepan	1	Each

MOBILIZATION

If more than one location within an area is to be repaired, the Contractor will be compensated for only one mobilization per area.

Mobilization 1 is the cost of mobilization per each time the Contractor is called in by the Belle Fourche Area Engineer, or his designated representative, to perform guardrail repair within the Belle Fourche Area.

Mobilization 2 is the cost of mobilization per each time the Contractor is called in by the Rapid City Area Engineer, or his designated representative, to perform guardrail repair within the Rapid City Area.

Mobilization 3 is the cost of mobilization per each time the Contractor is called in by the Custer Area Engineer, or his designated representative, to perform guardrail repair within the Custer Area

Mobilization will be paid once each time the Contractor is called to repair guardrail, regardless of the number of sites requiring repair within the project limits.

Guardrail repairs will be limited to all Interstate and State highways within the boundaries of the Rapid City Region. Maintenance maps for priority and nonpriority routes are available at the Rapid City Region office.

TRAFFIC CONTROL

Traffic control shall at all times be maintained in accordance with applicable MUTCD Standards, Section 634 of the Standard Specifications and these plans.

The Contractor shall be required to have a person available 24 hour/day, 7 days/week to maintain traffic control devices. The name and cellular telephone number of this individual shall be given to the Engineer at the preconstruction meeting.

The bid item "Traffic Control for Guardrail Repair" shall include all necessary traffic control devices as required by these plans and shall be measured and paid and the contract unit price per "site". The Contractor shall be compensated each time they are required to mobilize to a "site" for quardrail repair. If the Contractor relocates the traffic control devices to a different location during the same mobilization, additional compensation will not be made and it shall be considered the same "site".

Construction vehicles shall exit or enter the construction work zone at locations identified by the Engineer. At no time shall construction vehicles utilize the maintenance crossovers or the I-90 median to exit or enter I-90 traffic.

Unless otherwise stated in these plans, no work will be allowed during hours of darkness. Hours of darkness are defined, as ½ hour after sunset until ½ hour before sunrise.

All materials and equipment shall be stored a minimum distance of 30' from the traveled way during nonworking hours.

Traffic shall be returned to the normal driving lanes during non-working hours.

TRAFFIC CONTROL (CONTINUED)

Storage of vehicles and equipment shall be as near the right-of-way as possible. Contractor's employees should mobilize at a location off the right-ofway and arrive at the work sites in a minimum number of vehicles necessary to perform the work. Indiscriminate driving and parking of vehicles within the right-of-way will not be permitted. Any damage of the vegetation, surfacing, embankment, delineators, and existing signs resulting from such indiscriminate use shall be repaired and/or restored by the Contractor, at no expense to the State, and to the satisfaction of the Engineer.

Vehicles working in traffic or alongside traffic shall be equipped with a flashing amber light visible from all directions. The amber light shall be mounted on the uppermost part of the contractor's vehicle. Lights must have peak intensity within the range of 40 to 400 candelas and must flash at 75 ± 15 flashes per minute. Vehicle flasher/hazard lights are not acceptable.

The Contractor shall provide documentation that all breakaway sign supports comply with FHWA NCHRP 350 or MASH crash-worthy requirements. The Contractor shall provide installation details at the preconstruction meeting for all breakaway sign support assemblies.

RESTORATION OF DISTURBED AREAS

Areas disturbed as a result of the work necessary to repair guardrail shall be reshaped and/or restored to the satisfaction of the Engineer. The disturbed areas shall be tilled to a minimum depth of three inches and seeded with the following seed mix rate:

Grass Species	Variety	Pure Live Seed (PLS) (Pounds/Acre)
Western Wheatgrass	Flintlock, Rodan, Rosana	16
Canada Wildrye	Mandan	2
	Total:	18

All costs for reshaping, leveling, tilling, and seeding disturbed areas shall be incidental to the various bid items on the project.

GUARDRAIL

When guardrail adjoining bridge ends is ordered to be repaired, the contractor shall replace with the same size and type as the existing guardrail.

When a W beam guardrail end terminal is replaced, the new end terminal shall be of the same type (flared or tangent) that was originally installed.

Beam Guardrail Post and Block. Winter - Includes the additional cost for removal and installation of a Beam Guardrail Wood Post and Block when there is at least one foot of solid frozen ground at the work site. This bid item shall be an additional payment. (i.e. the Contractor will be paid once for the respective Beam Guardrail Post and Block bid item and once for Beam Guardrail Post and Block, Winter for each post when the Engineer determines winter conditions apply).

GUARDRAIL (CONTINUED)

3 Cable Guardrail Post, Winter - Includes the additional costs for removal and installation of a 3 Cable I Beam Steel and 3 Cable Flanged Channel Post when there is in excess of one foot of solid frozen ground at the work site. This bid item shall be an additional payment. (i.e. the Contractor will be paid once for the respective 3 Cable Guardrail Post bid item and once for 3 Cable Guardrail Post, Winter for each post when the Engineer determines winter conditions apply).

All reset portions of W Beam and Thrie Beam Guardrail sections shall include the removal of wood guardrail posts and resetting these posts to the proper alignment with the steel beam guardrail. Payment for this work will be the same for frozen or unfrozen ground.

Repair 3 Cable Guardrail - Includes all costs for replacing and repairing damaged cable, realigning posts, and the tensioning of the three cable guardrail. Payment for this item is applicable only when the cable is replaced, broken cable repaired, or the existing cable rail required realigning and retensionina.

"3 Cable Guardrail Intermediate Post" includes all costs to furnish and install either I Beam or Flanged type of posts. The post for this item shall be furnished and installed consistent with the type of posts presently in place at the proposed repair site.

"Beam Guardrail Post and Block" shall include all costs to furnish and install the appropriate size wood block. The Engineer shall designate the proper post length of six, six and one-half, or seven feet as needed to fit the repair situation.

W Beam Guardrail Breakaway Cable Terminal will be repaired only when they are behind 3 Cable Guardrail. W Beam Guardrail Breakaway Cable Terminal - Includes the costs of removing damaged components of the BCT System, furnishing and installing new Wood Breakaway End Posts (2), W Beam End Section (Buffer) 11" + radius, related items and all hardware to attach same. Any other BCT items that are required will be paid for at invoice cost plus shipping, taxes and ten percent for profit.

W Beam Guardrail BCT's or MELT's that are damaged and are not behind 3 Cable guardrail will be replaced with a new W Beam Guardrail End Terminal. Approved products are available at the following web address. http://apps.sd.gov/Applications/HC54ApprovedProducts/main.asp

The Contractor may be required to furnish some items that are not listed in the Contract Proposal. The Contractor shall furnish the invoice and will be paid invoice cost plus shipping, handling, taxes and 10 percent for profit. The Contractor is required to receive prior approval of the Engineer before making these purchases. Installation cost for these items shall be incidental to the contract unit prices for the various items.

The Contractor shall place "State Furnished Asphalt Concrete Cold Mix" around the posts to fill and level any voids created by the driving of the posts through the asphalt. This material will be available at the SDDOT maintenance in Rapid City. The material shall be placed 1/2" high around the post to force the water to drain away from the post. Cost for this work shall be incidental to the various bid items on the project.

All costs to furnish and install new bolts, nuts, washers, nails, misc. shall be incidental to the various bid items on the project. All removed guardrail items that are not reused shall become the property of the Contractor.

STATE OF		SHEET	TOTAL SHEETS
DAKOTA	000I-469, 000N-469 & 000P-469	з	30
	& 000P-469	3	

NCHRP 350 TEST LEVEL 3 HIGH TENSION CABLE GUARDRAIL

The Contractor shall furnish and install a 3 or 4 cable high tension guardrail system that meets the crash testing requirements of NCHRP 350 Test Level 3. The maximum dynamic deflection of the system shall be less than 8'. All posts shall be galvanized and inserted into driven steel sleeves. The driven steel sleeves shall have soil plates. Reflective sheeting shall be placed on the guardrail posts at a maximum spacing of 50' and a minimum of 16 square inches of sheeting per post. The anchor assembly shall have a minimum of 256 square inches of object marker sheeting. The sheeting shall be fluorescent yellow super or very high intensity. The sheeting shall be in accordance with Section 982.2.1.2 of the Standard Specifications. The color of the reflective sheeting shall be the same as the nearest pavement marking.

The Contractor shall check and adjust the tension of the cables approximately 3 weeks after installation. Cost for this work shall be incidental to the contract unit price per foot for "NCHRP 350 Test Level 3 High Tension Cable Guardrail".

The Contractor shall install the system according to the manufacturer's recommendations, specifications, and installation instructions. A copy of the specifications, detail drawings, and installation instructions for the high tension cable guardrail and anchor assemblies shall be given to the Engineer 2 weeks prior to installation of the high tension cable guardrail system.

The lengths of high tension cable guardrail stated in the plans were based on a CASS Cable Guardrail Safety System. The length and location of the high tension cable guardrail at each site will need to be adjusted during construction as necessary if a system with a different non-effective length is used and it shall be approved by the Engineer before installation.

The high tension cable guardrail shall be measured along the centerline of the cable guardrail from the first post of the approach anchor assembly to last post of the departure anchor assembly to the nearest foot.

All costs for furnishing and installing the 3 or 4 cable high tension guardrail system including all labor, materials, and equipment shall be incidental to the contract unit price per foot for "NCHRP 350 Test Level 3 High Tension Cable Guardrail".

NCHRP 350 TEST LEVEL 3 HIGH TENSION CABLE GUARDRAIL ANCHOR ASSEMBLY

The beginning and end of each "run" of high tension cable guardrail shall terminate with an anchor assembly that meets the crash testing requirements of NCHRP 350 Test Level 3.

The footing size for the anchor assembly shall be designed appropriately based on the soil type and conditions located on the project. The footing size shall be a minimum of 5' deep and shall be approved by the Engineer before installation.

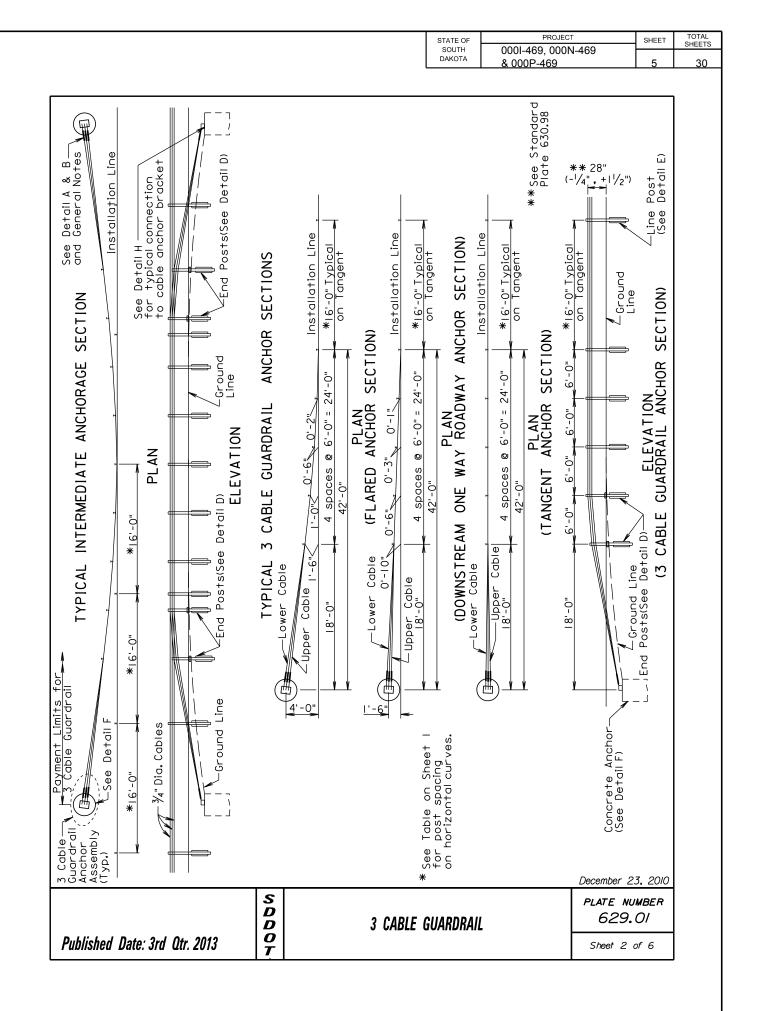
All costs for furnishing and installing the NCHRP 350 Test Level 3 High Tension Cable Guardrail Anchor Assembly including all labor, equipment, and materials which include the anchor footing, hardware, and all attachments to the anchor footing, shall be incidental to the contract unit price per each for "NCHRP 350 Test Level 3 High Tension Cable Guardrail Anchor Assembly".

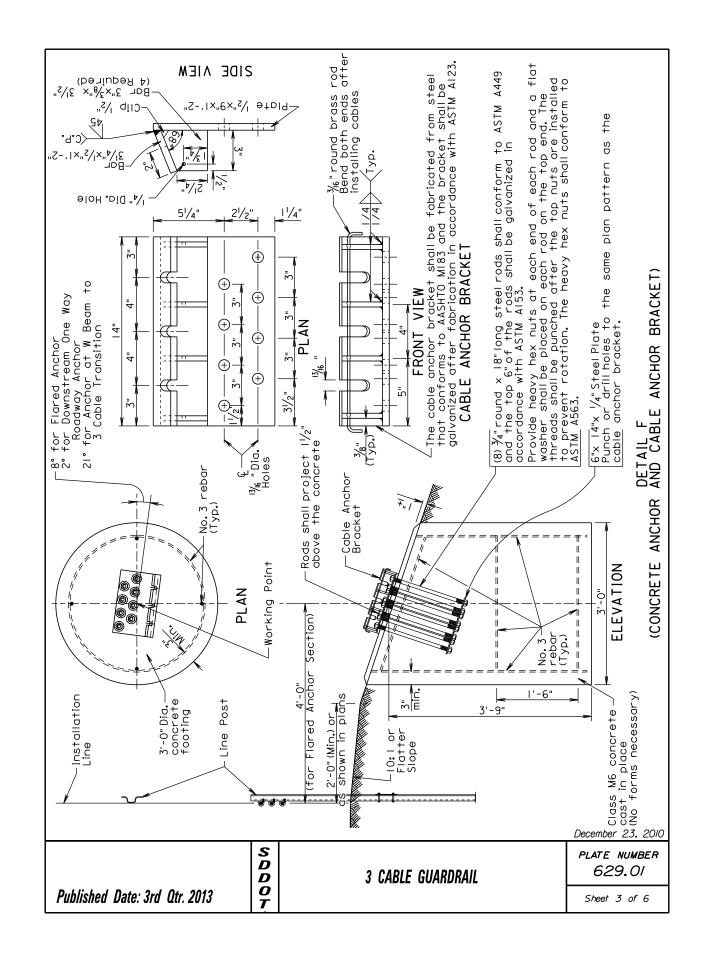
STATE OF	PROJECT 0001-469, 000N-469	SHEET	TOTAL SHEETS
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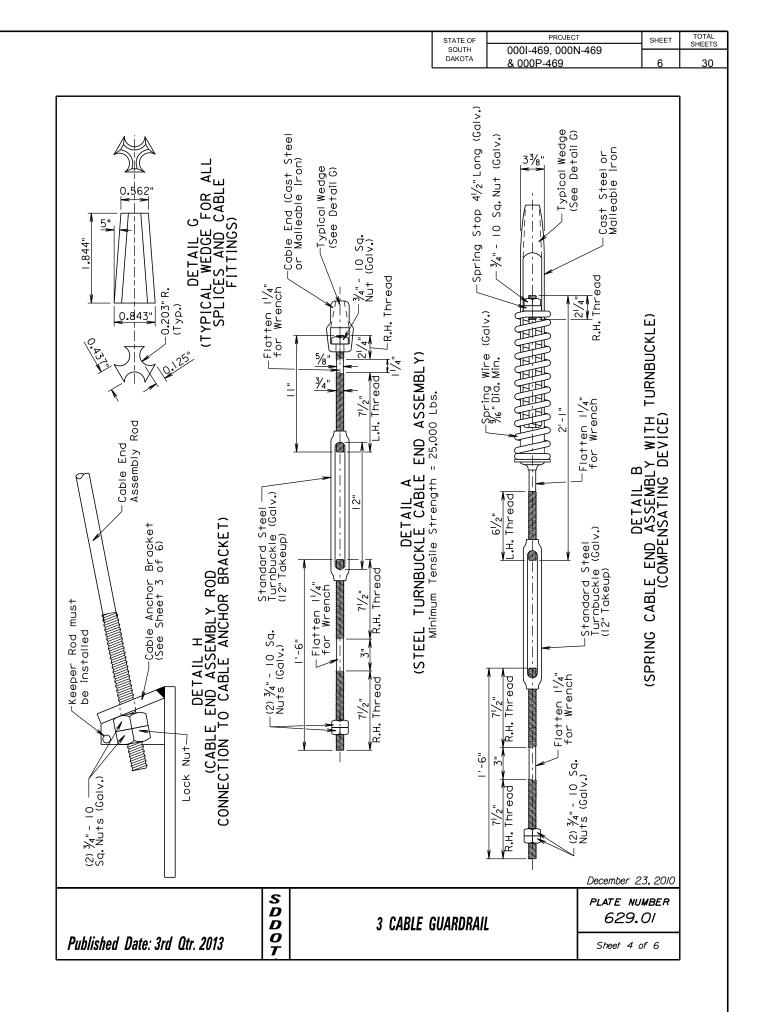
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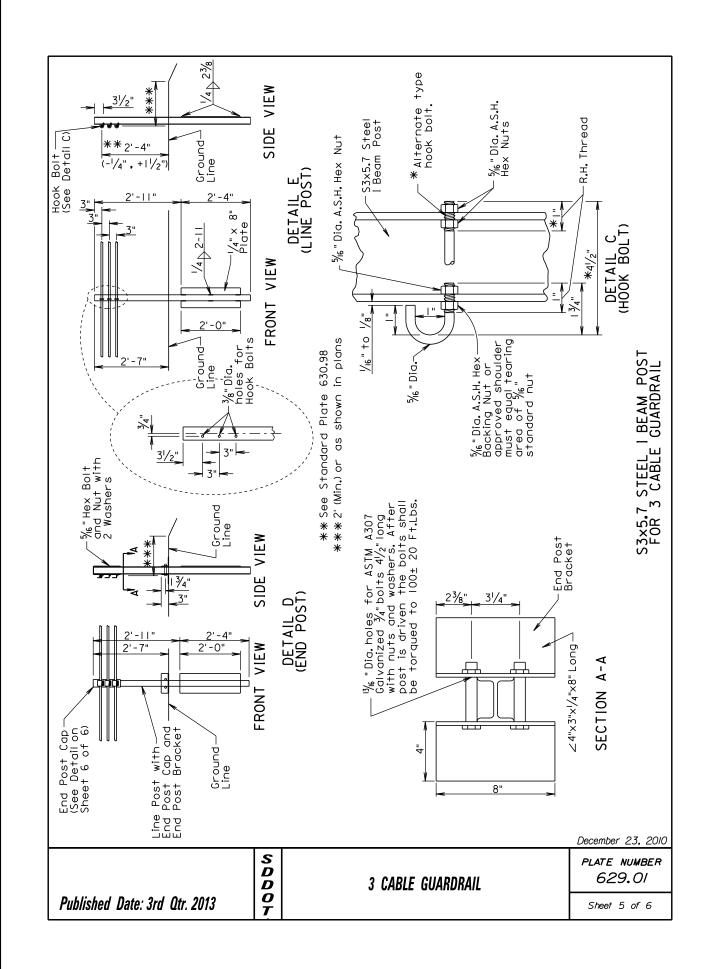
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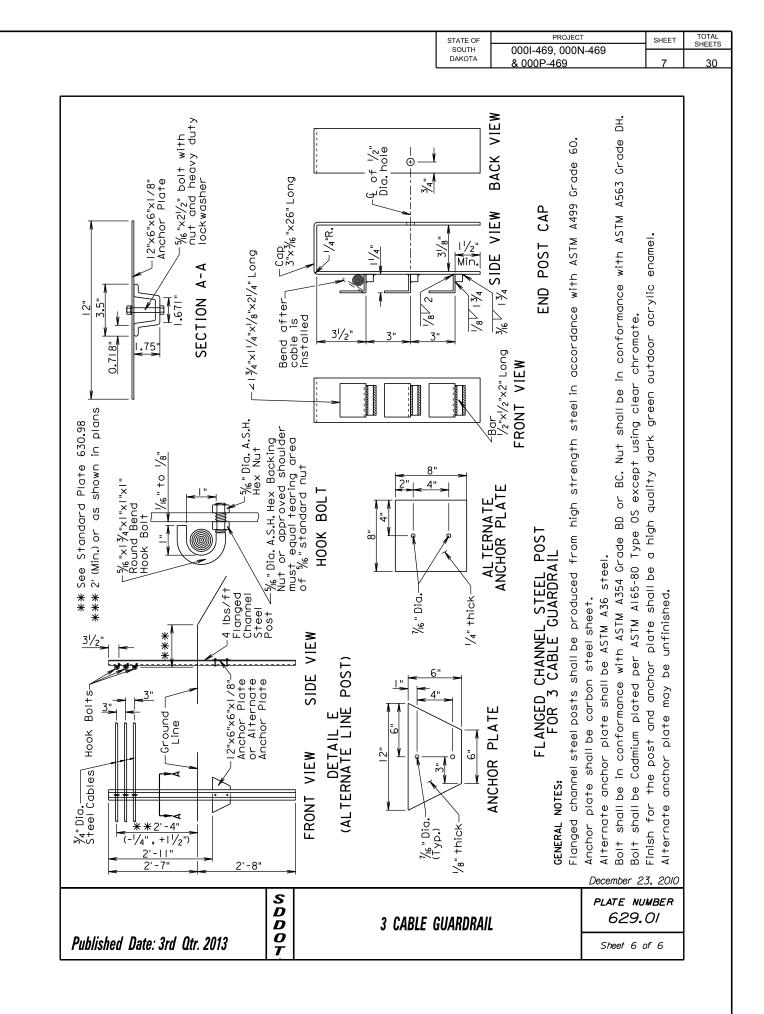
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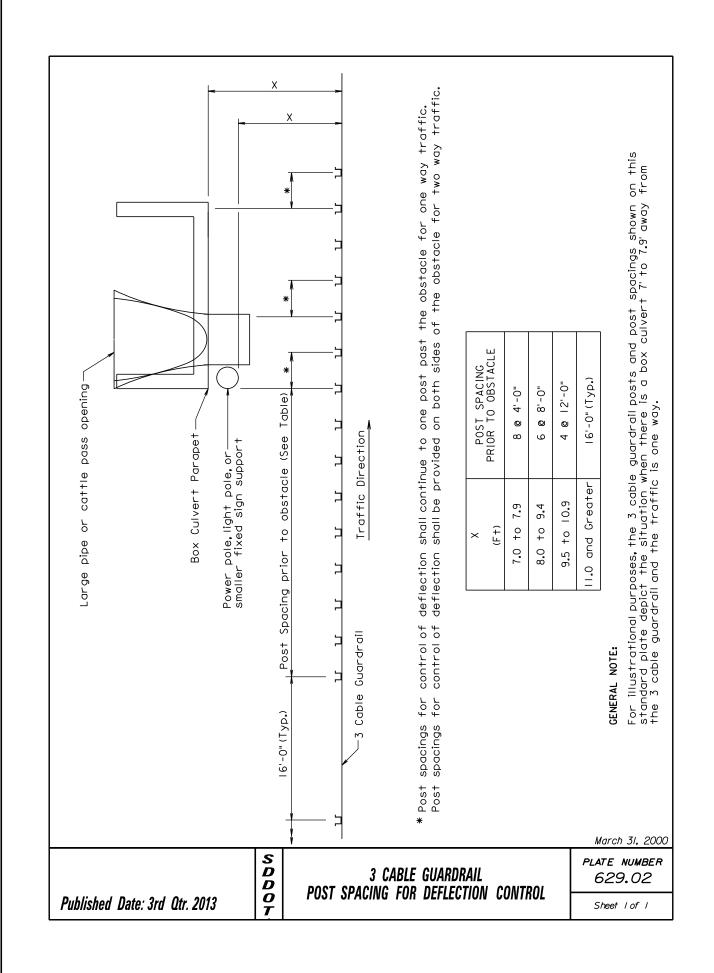


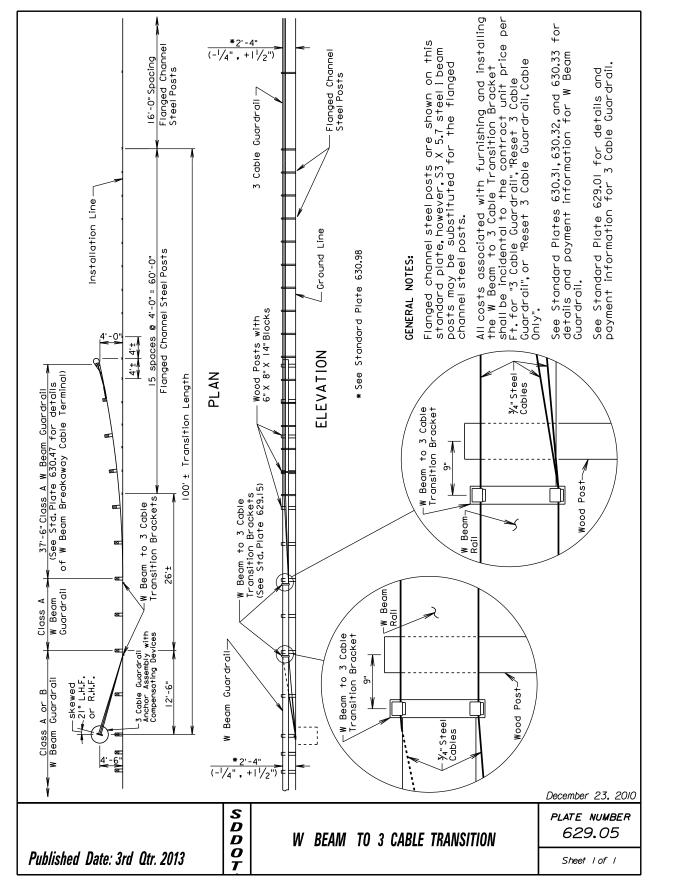


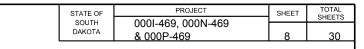


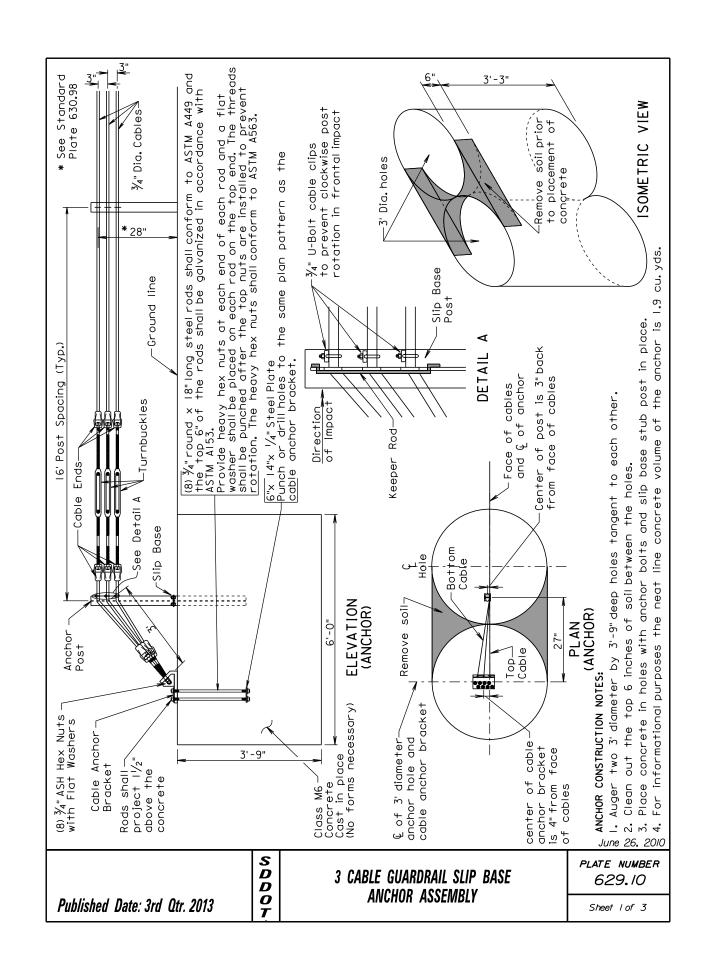


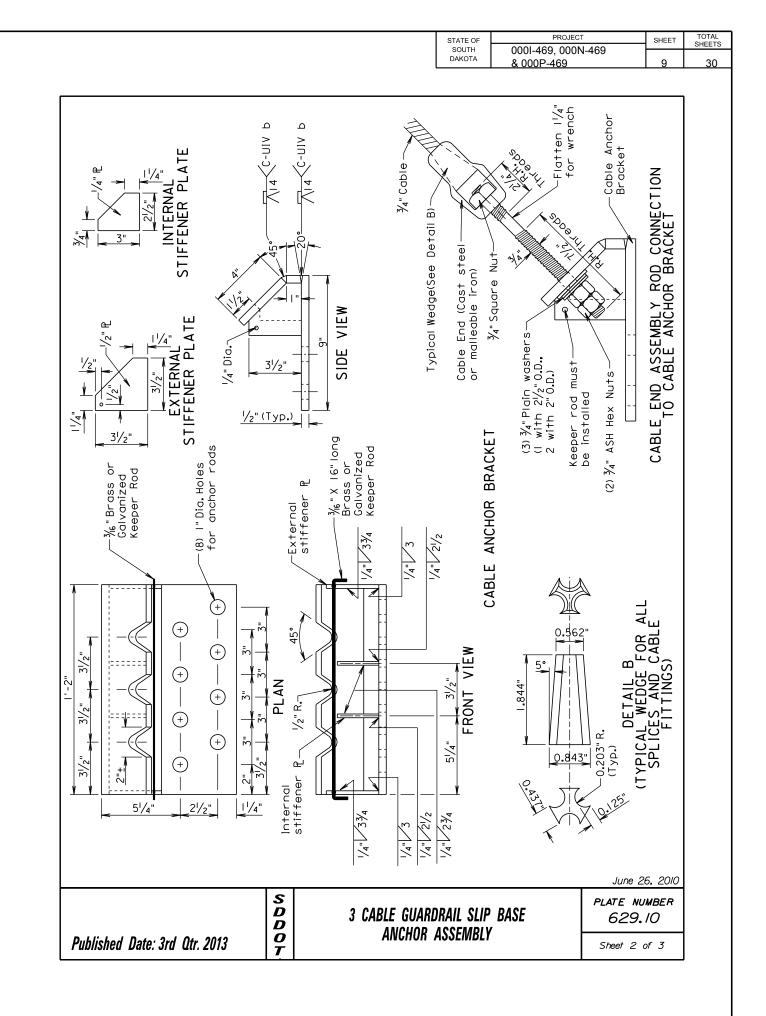


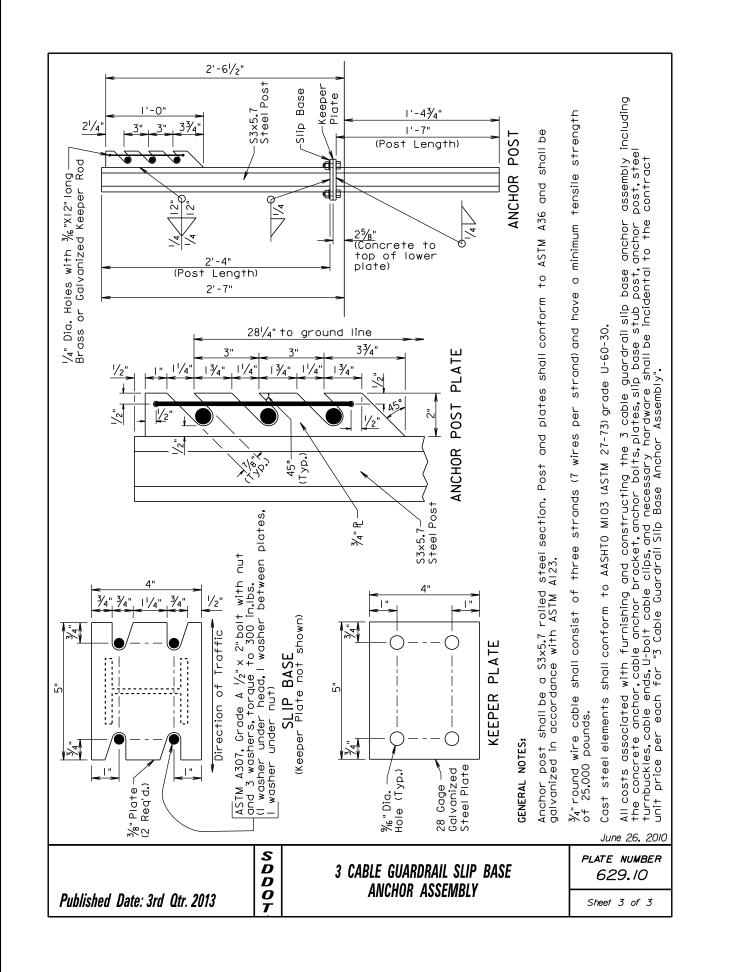


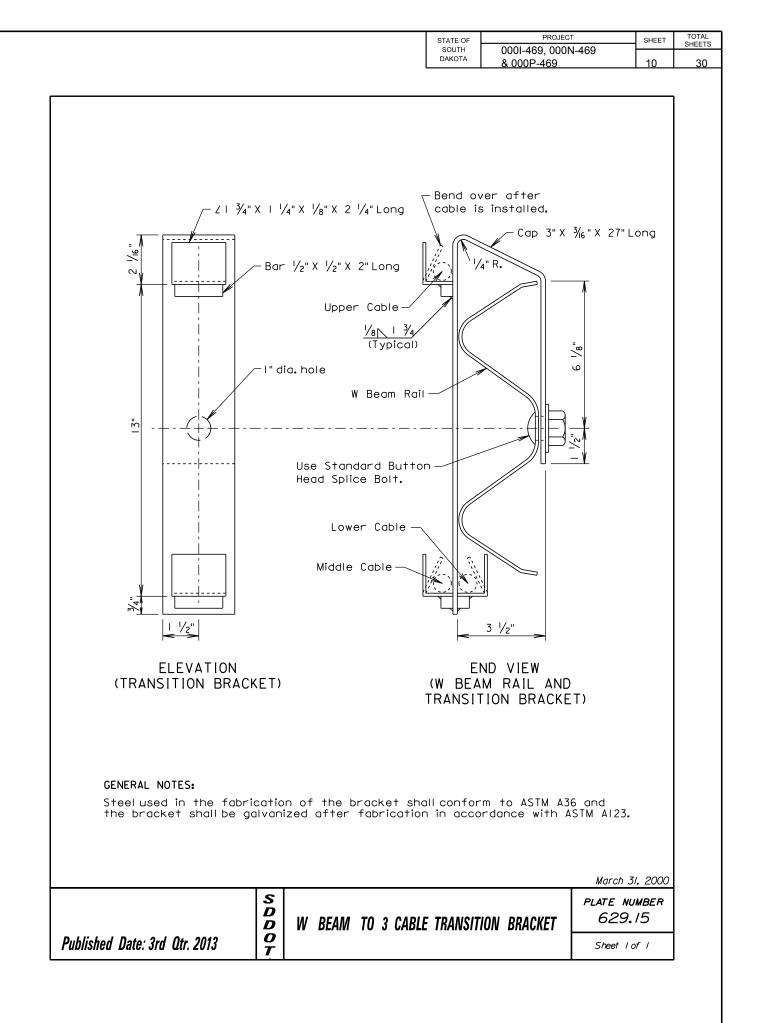


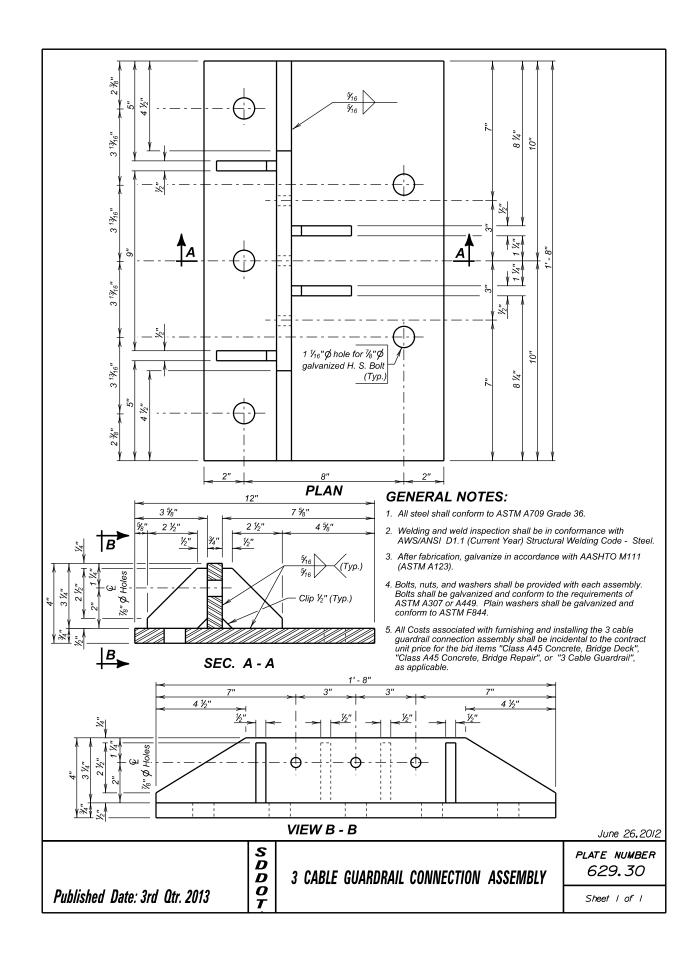


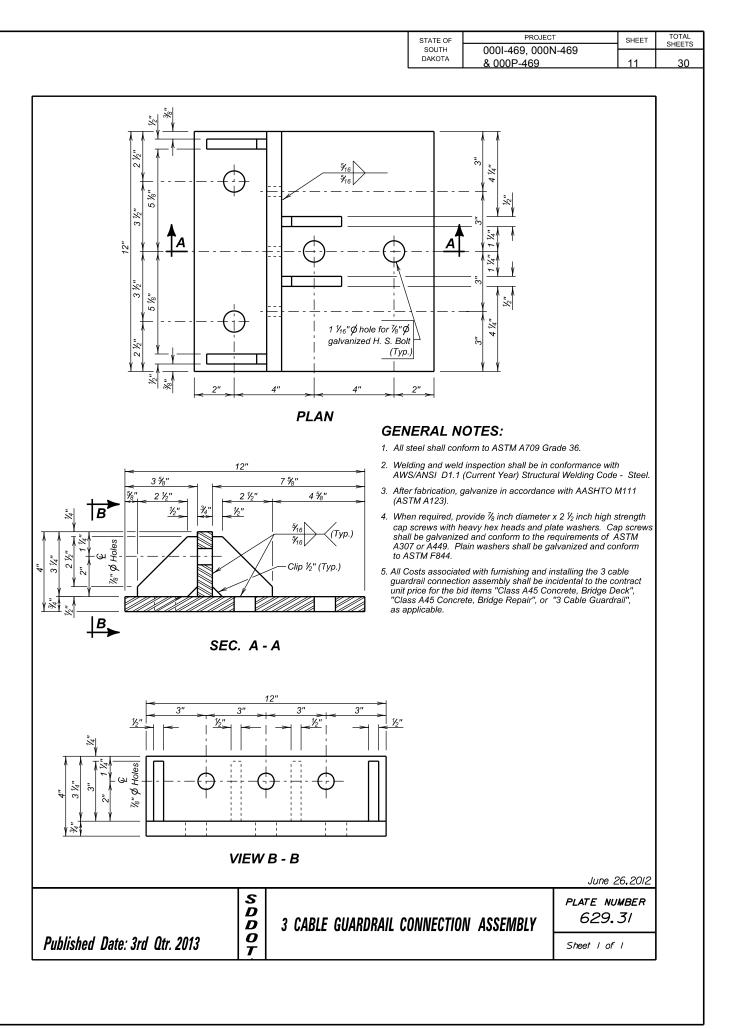


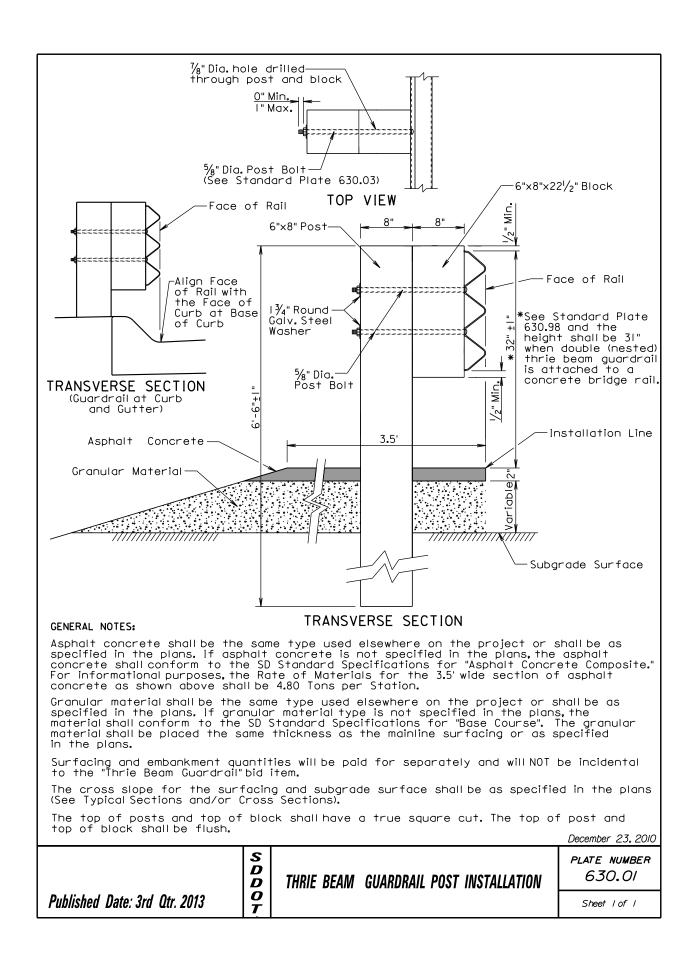


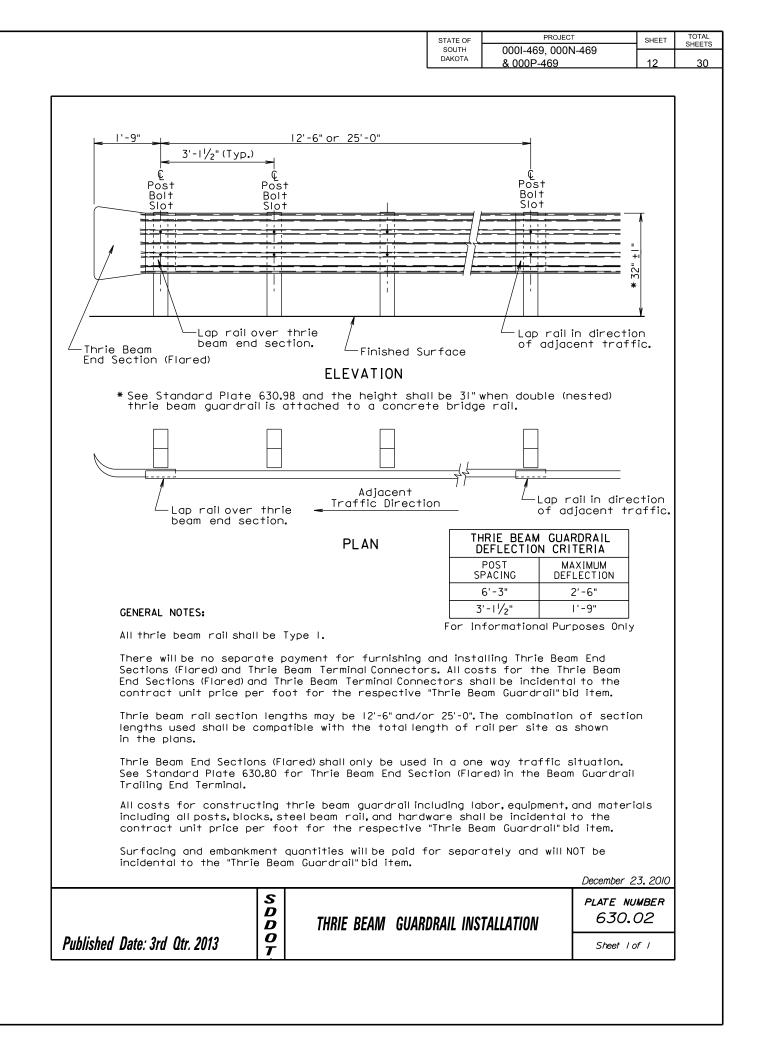


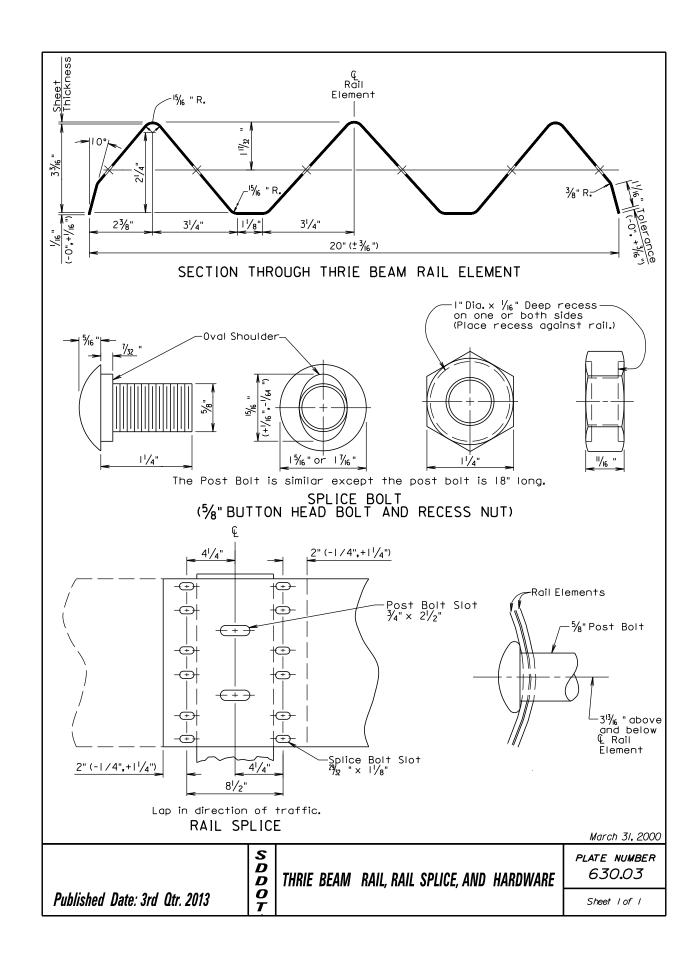


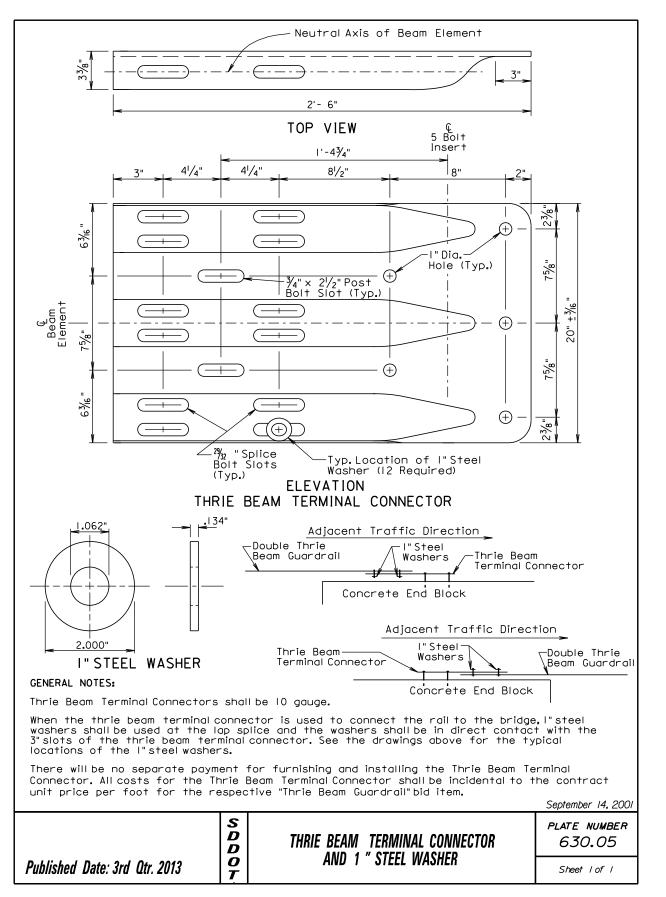


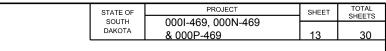


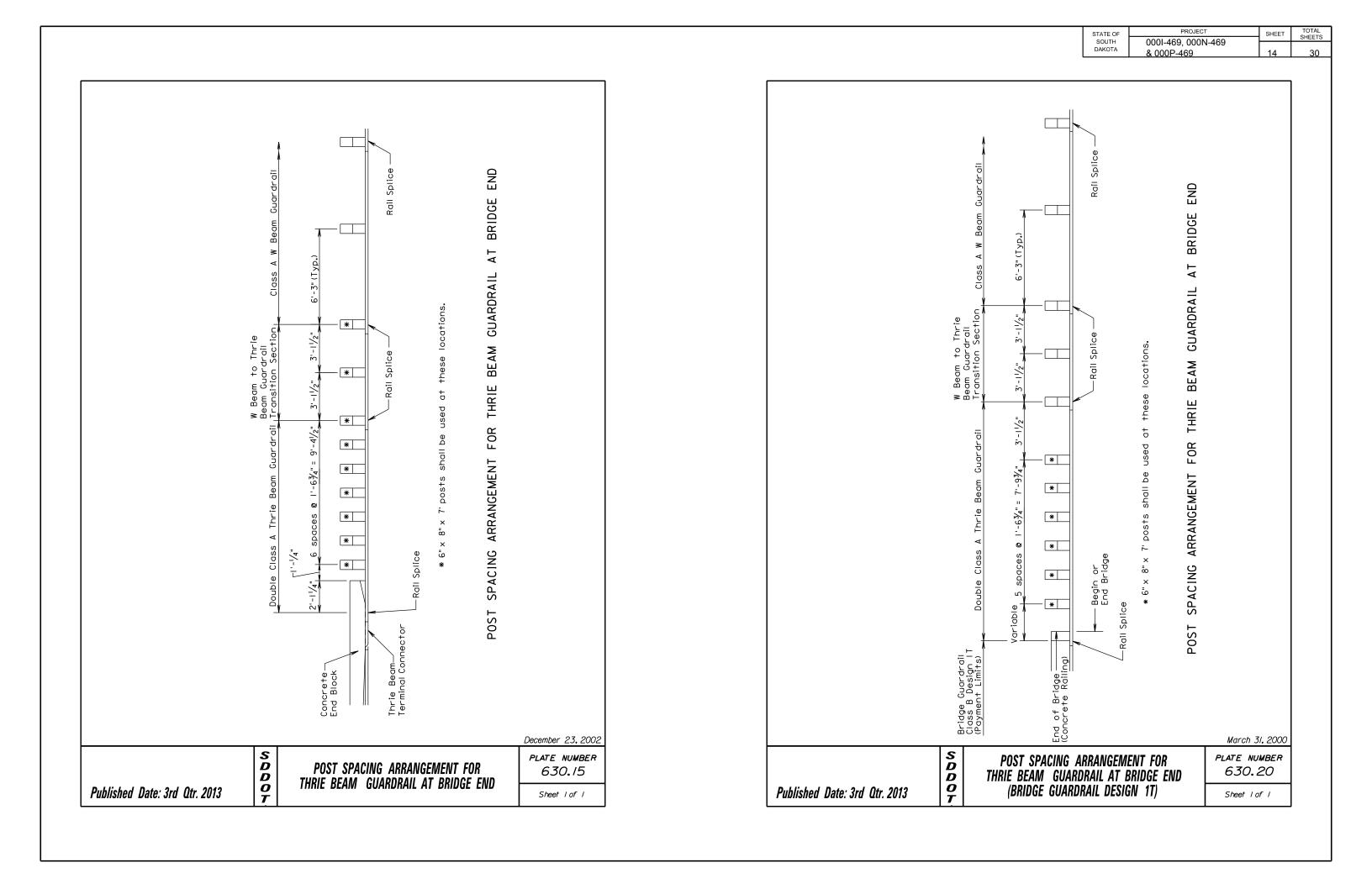


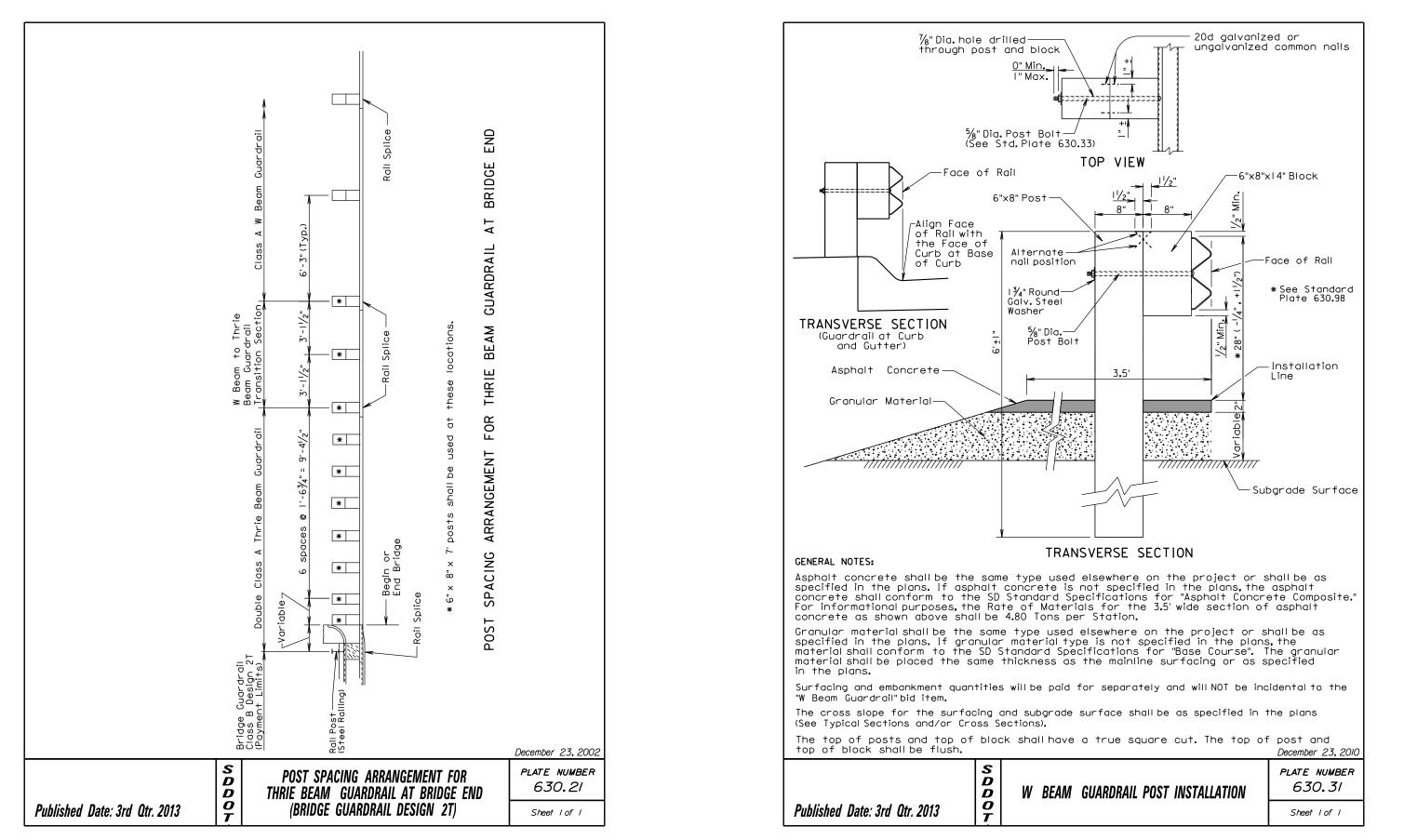




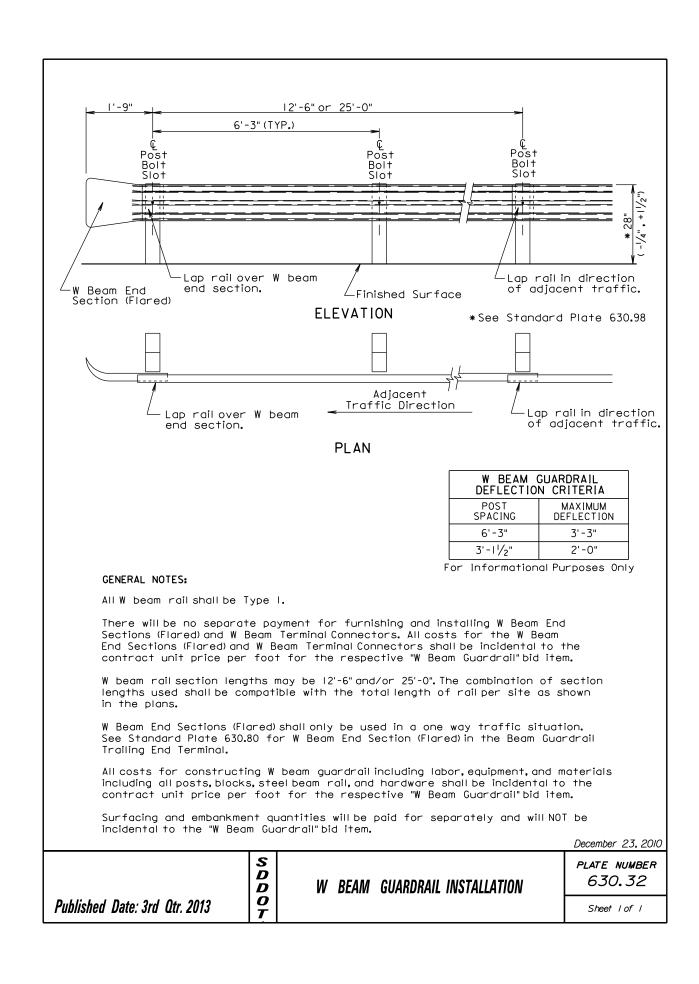


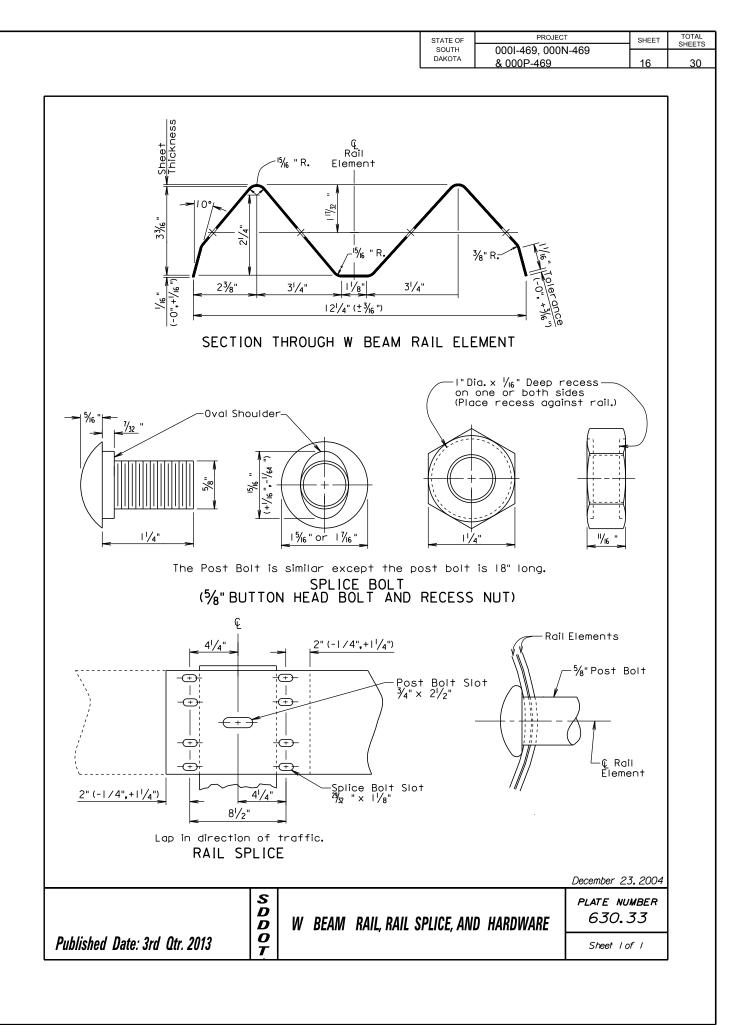


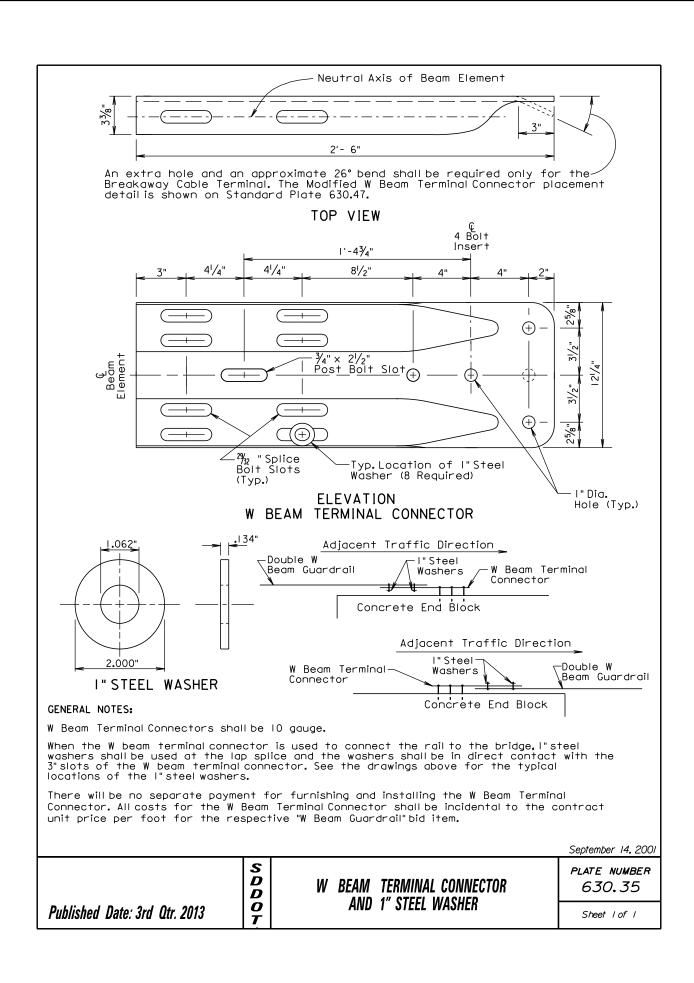


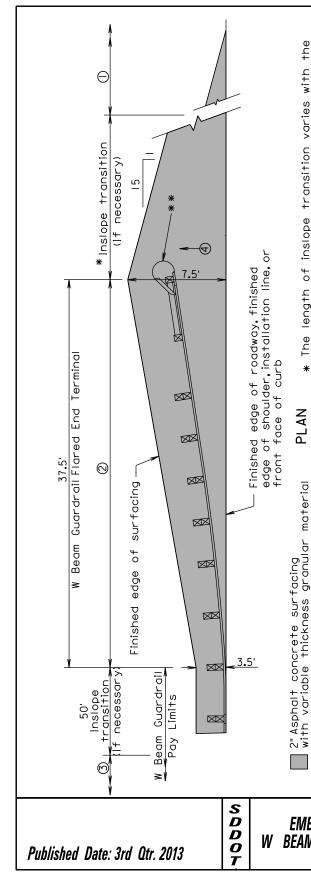


STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	000I-469, 000N-469 & 000P-469	15	30









	DAKOTA		& 000P-469			17	30
* The length of inslope transition varies with the amount of change between inslopes. The length of the transition shall change 100° for every whole number change in the inslope. For Example: If the inslope changes from a 5:1 to a 4:1 the length of the inslope transition would be 100°. If the inslope changes from a 6:1 to a 4:1 the length of the inslope transition would be 200°.		terminal shall be installed according to the manufacturer's installation instructions.	ion buffer or extruder after placement of the er dimensions may be 16" or other variation A minimum of 256 square inches of object marker ng shall be fluorescent yellow super or very high ve object marker shall be incidental to various	he same type used elsewhere on the project or shall be as specified in the plans. specified in the plans, the asphalt concrete shall conform to the SD Standard Concrete Composite."	the project or shall be as specified in the plans. material shall conform to the SD Standard I be placed the same thickness as the mainline		
 with variable thickness granular material LAN Same inslope as mainline inslope 4:1 inslope 2:1 inslope or flatter, or inslope as specified in plans Same slope as roadway cross slope 	GENERAL NOTES:	The W beam guardrail flared end	**An adhesive object marker end section buffer or ext due to the shape of the e reflective sheeting area is intensity. All costs for fur contract items.	Asphalt concrete shall be 1 1 asphalt concrete is not 2 Specifications for "Asphalt	Cranular material shall be the same type used elsewhere on the project or shall be as specified in the plans. If granular material type is not specified in the plans, the material shall conform to the SD Standard Secifications for "Base Course". The granular material shall be placed the same thickness as the mainline		
NBANKMENT ANI NM GUARDRAIL					630.4		

PROJECT

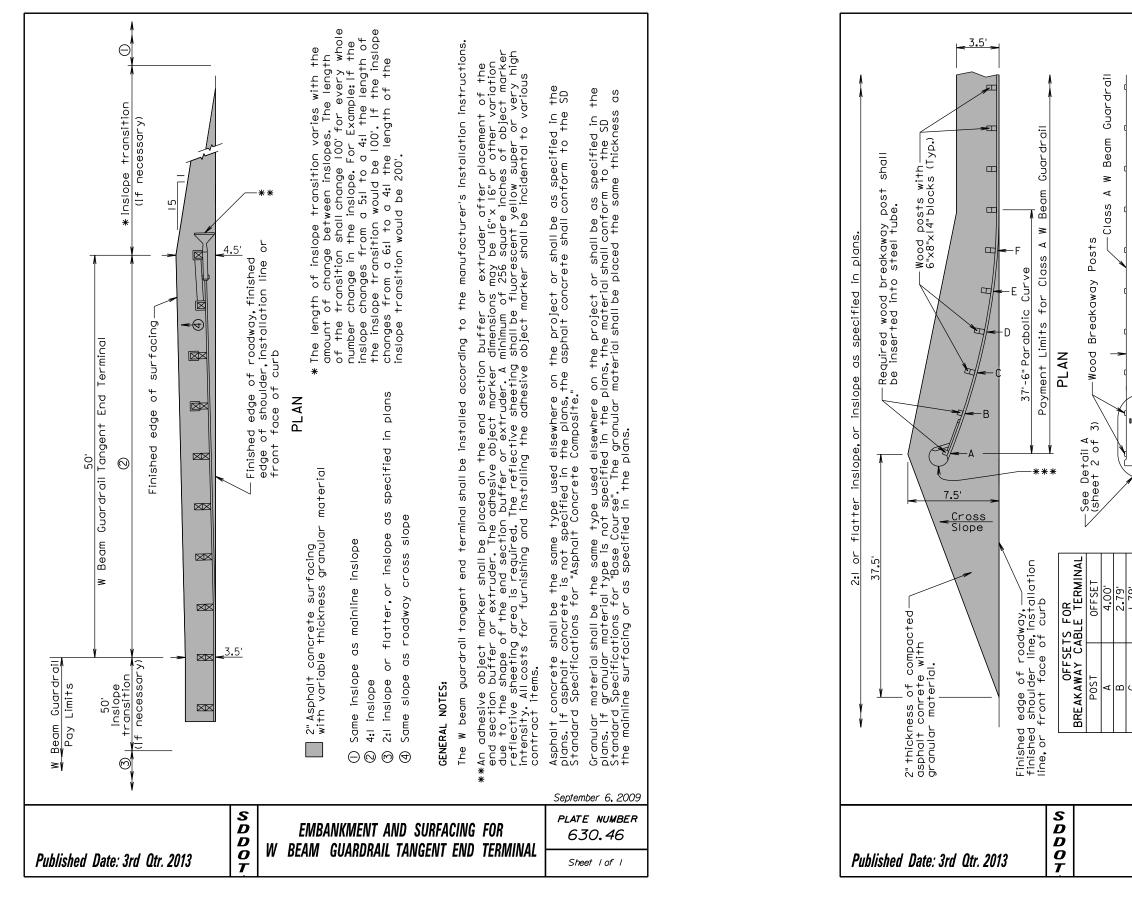
000I-469. 000N-469

STATE OF SOUTH

DAKOTA

SHEET

TOTAL SHEETS



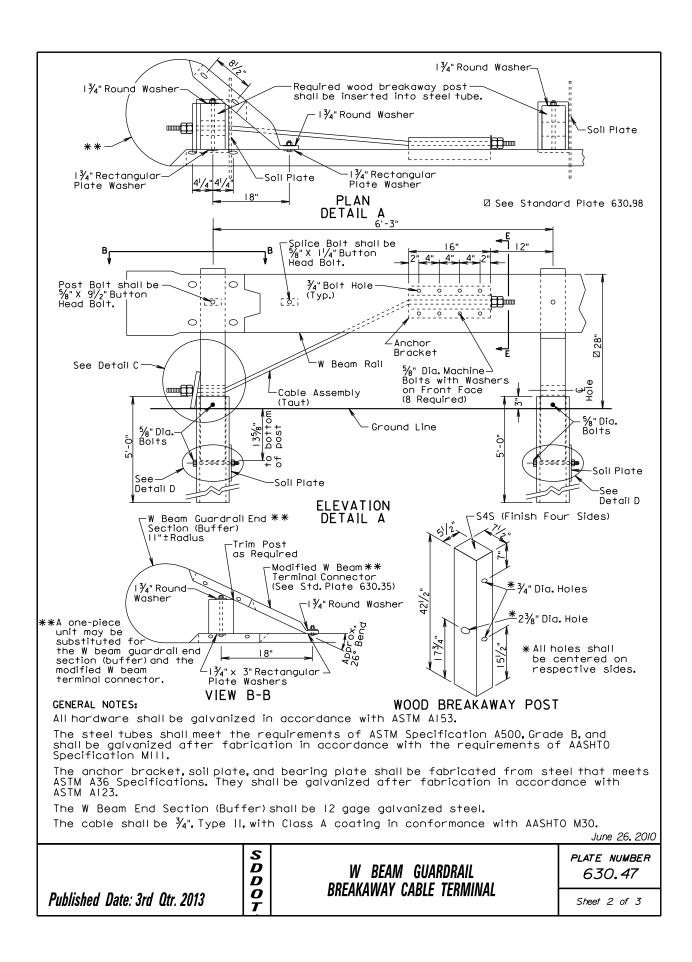
	DAKOTA	& 000P-46	9	18
Ψī	L L	plans. It asphait concrete is not specified in the plans, the asphait concrete shall contorm to the SU standard Specifications for "Asphalt Concrete Composite." E Canular material shall be the same type used elsewhere on the project or shall be as specified in the SC plans. If granular material type is not specified in the plans, the material shall conform to the SD the mainline surfacting or as specified in the plans.	rials	section(buffer), modified W beam terminal connector, and all necessary hardware shall be incidental to the contract unit price per each for "W Beam Guardrail Breakaway Cable Terminal".
es;±0 W BEAM REAKAWAY C	GUARDRA		* * *	26, 2010 U MBER

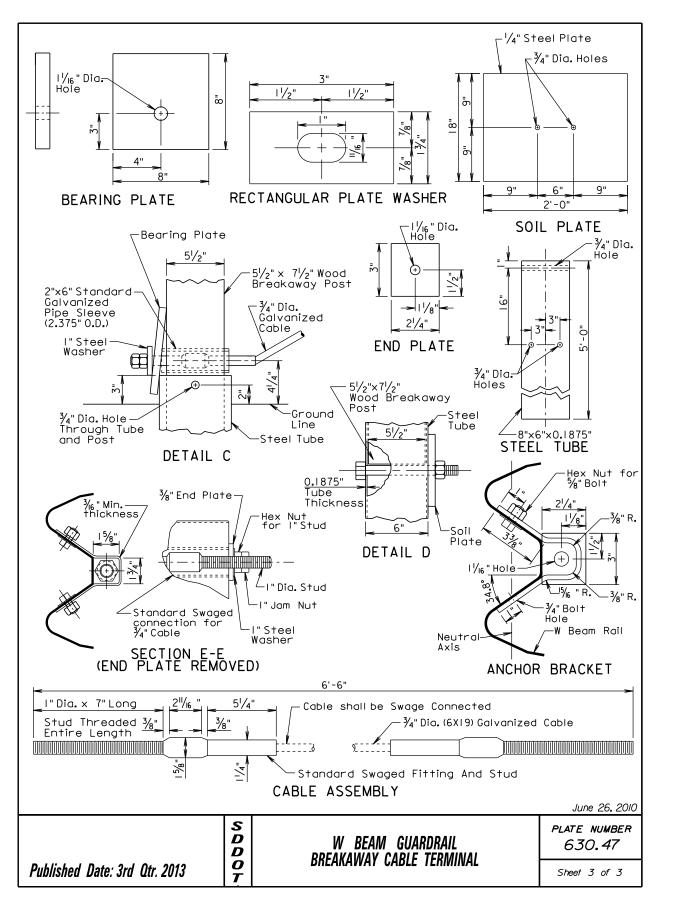
STATE OF SOUTH

PROJECT. 000I-469, 000N-469

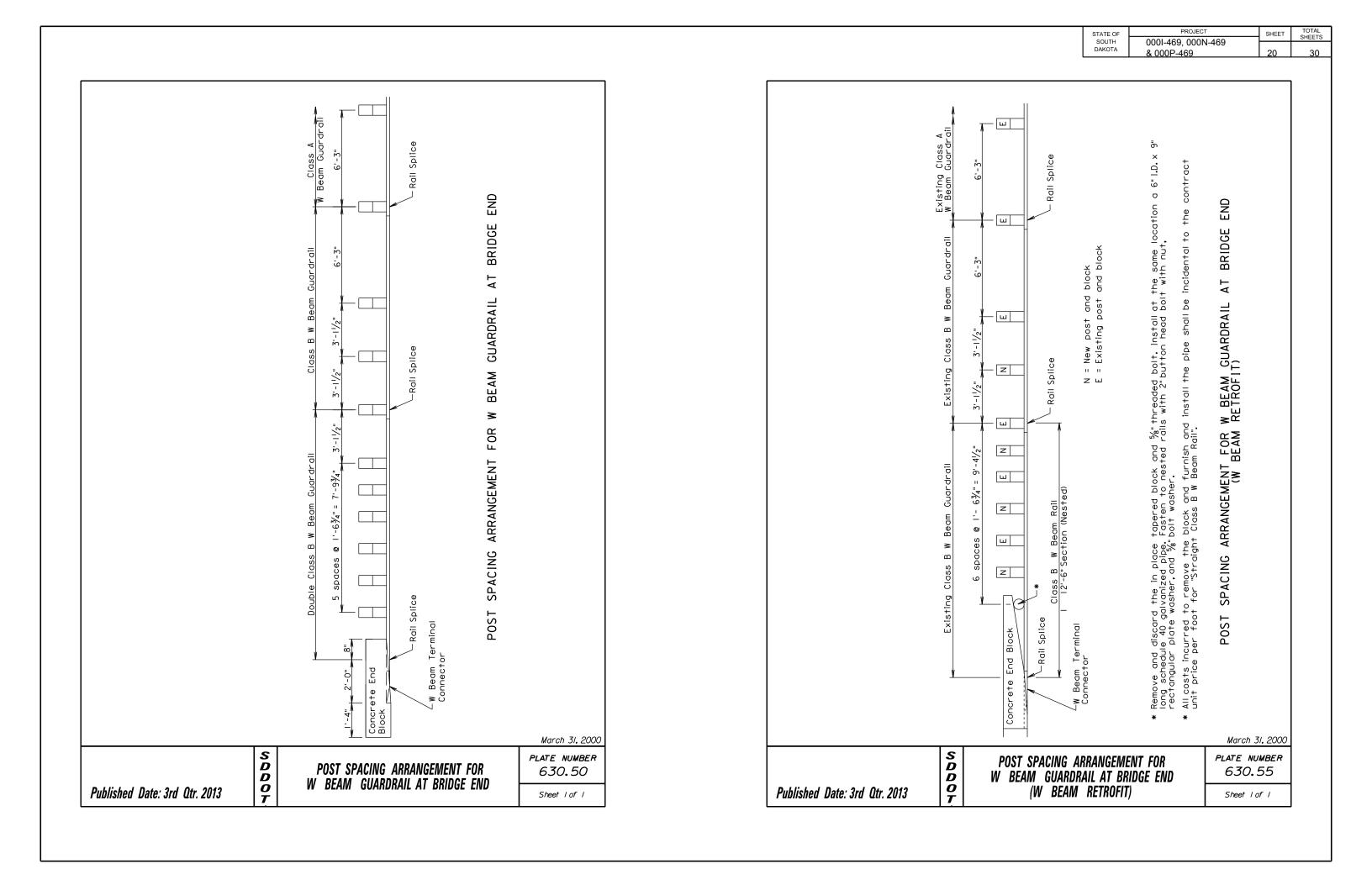
SHEET . .

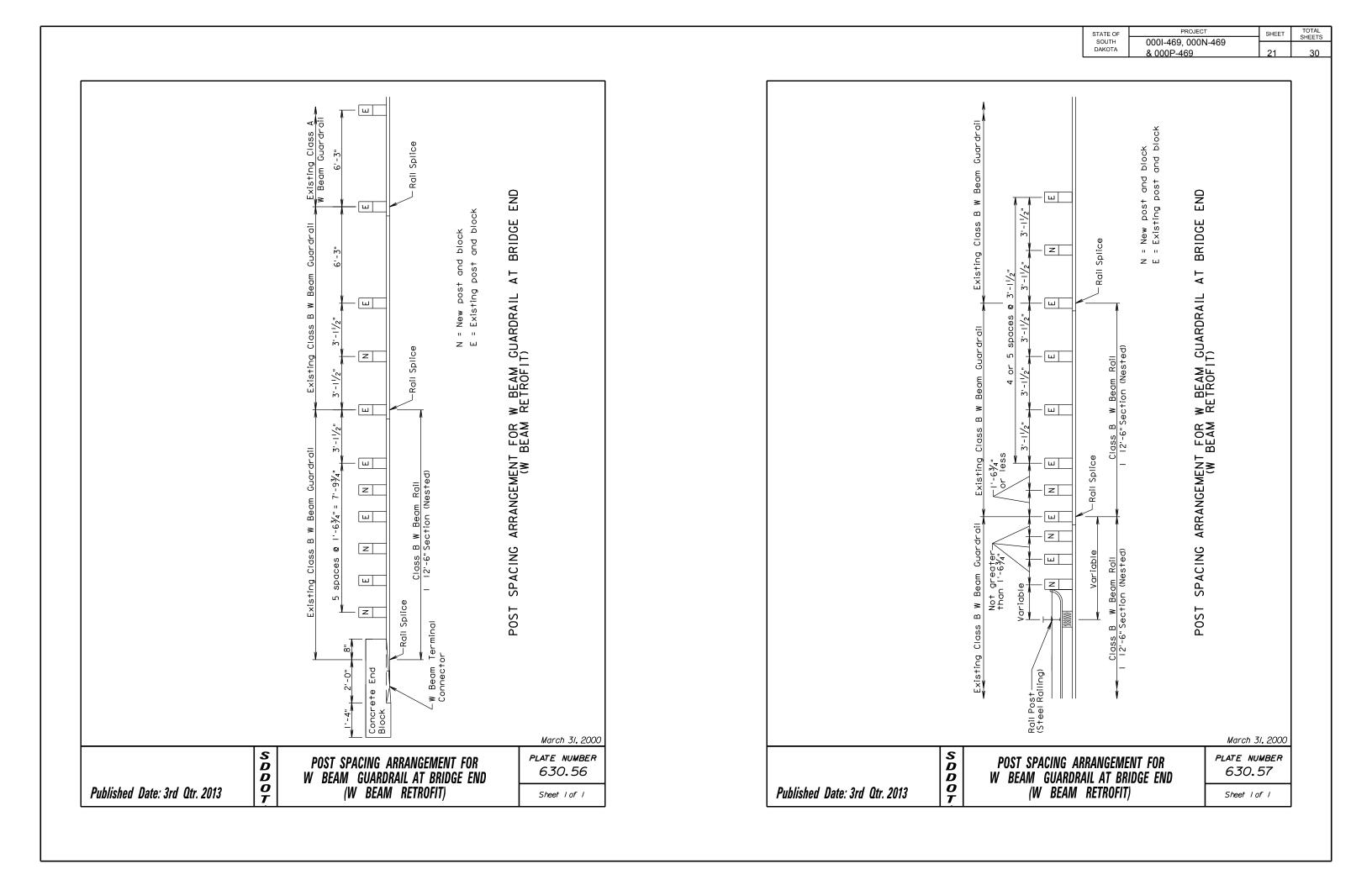
TOTAL SHEETS ~~

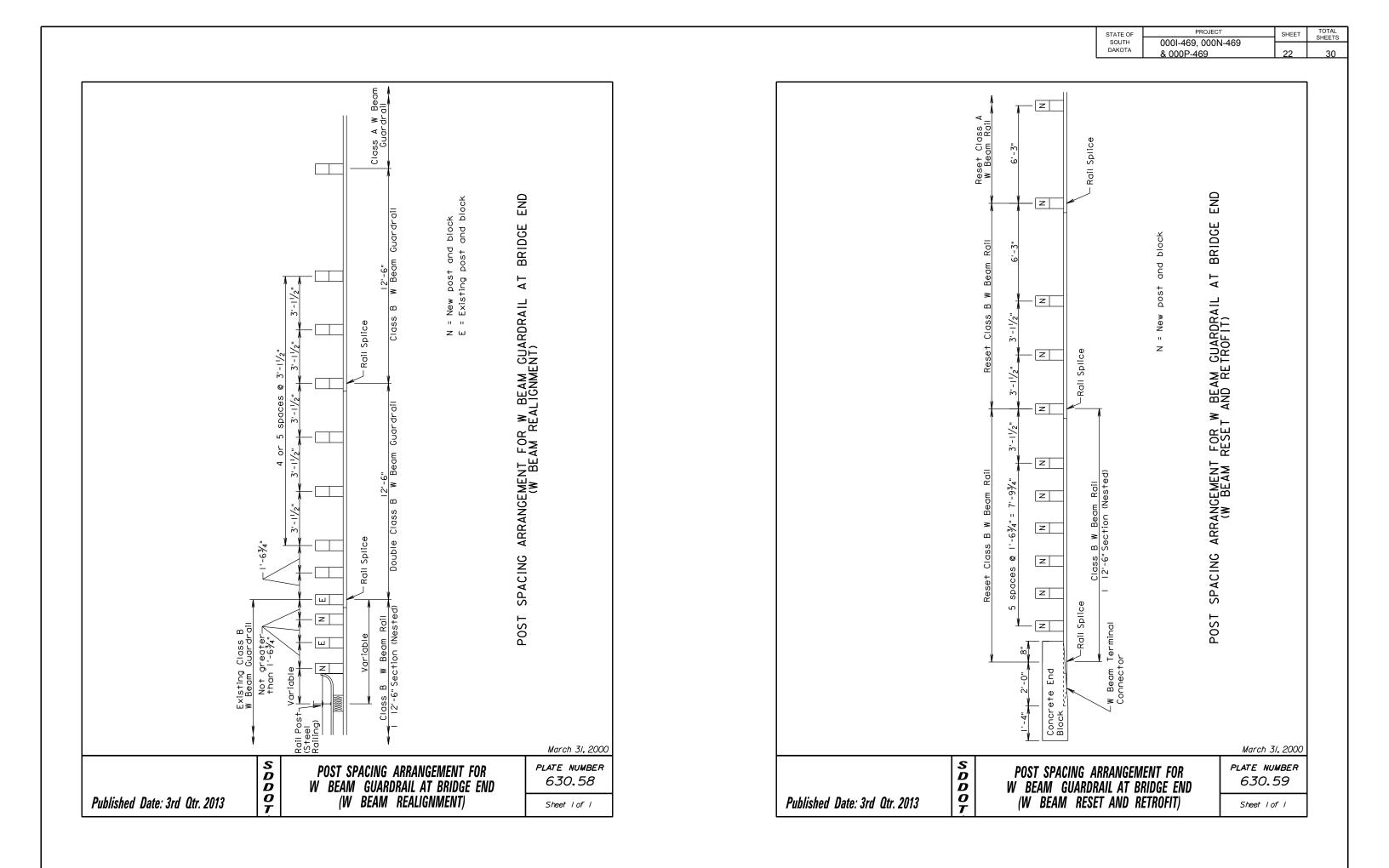


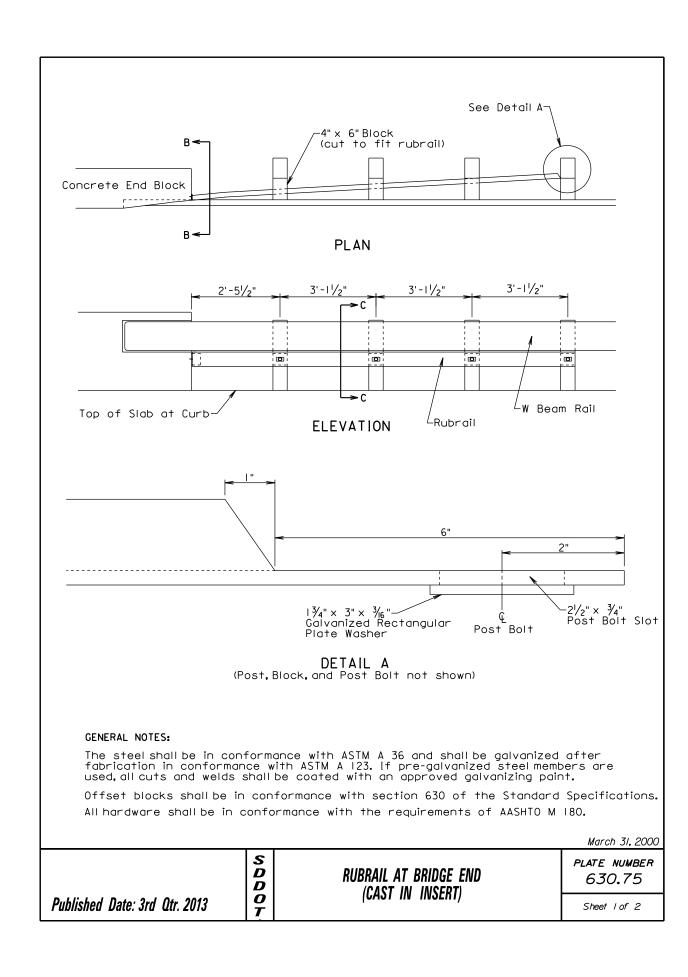


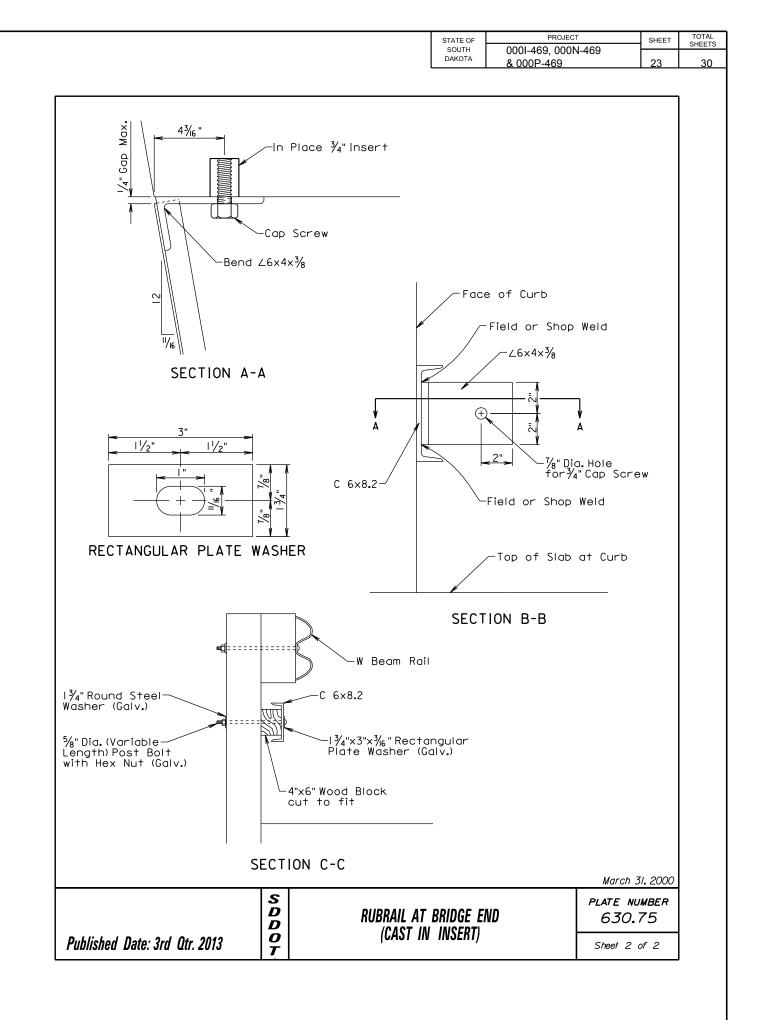
SOUTH 0001-469, 000N-469	STATE OF	PROJECT	SHEET	TOTAL SHEETS
		000I-469, 000N-469 & 000P-469	19	30

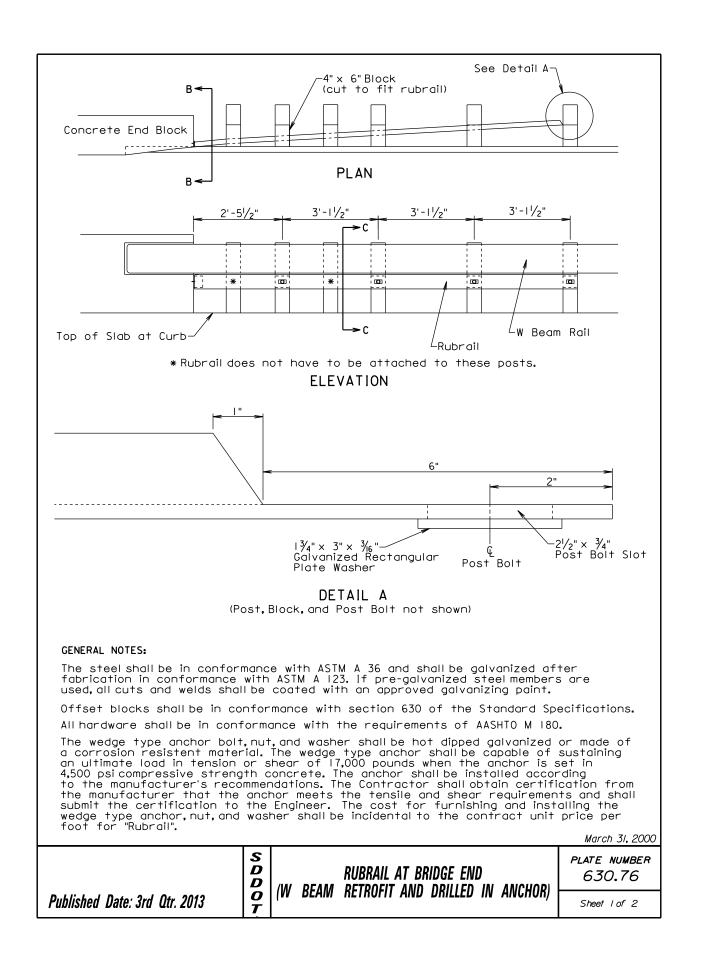


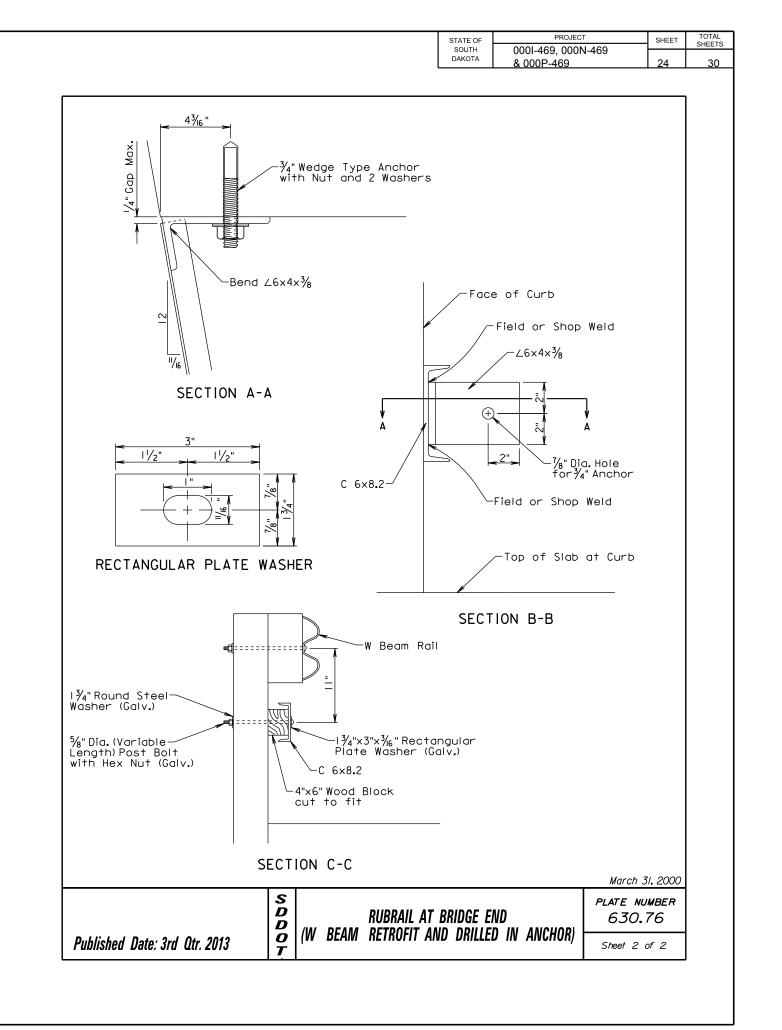


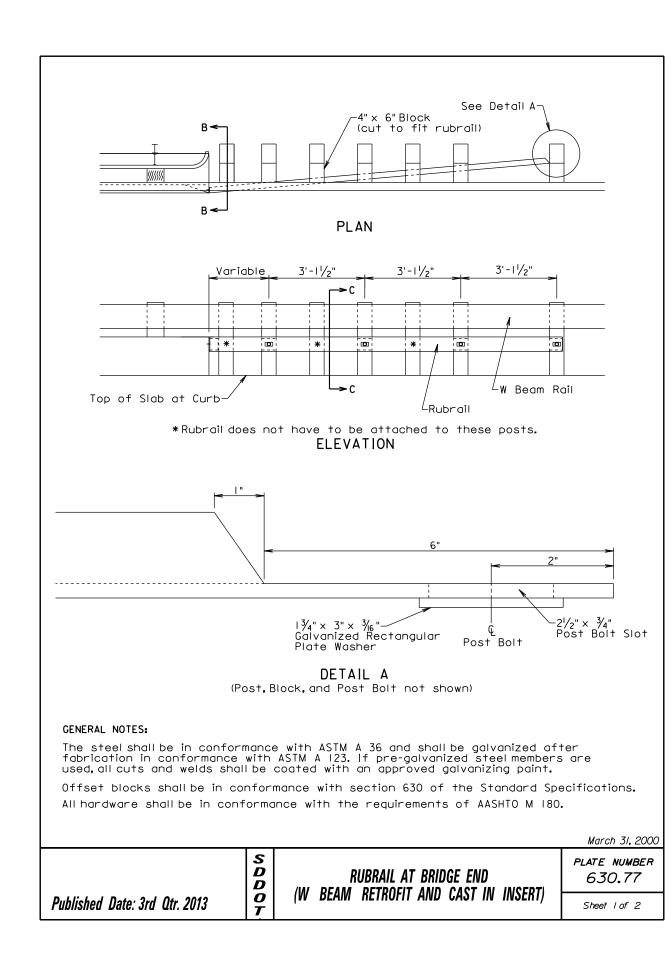


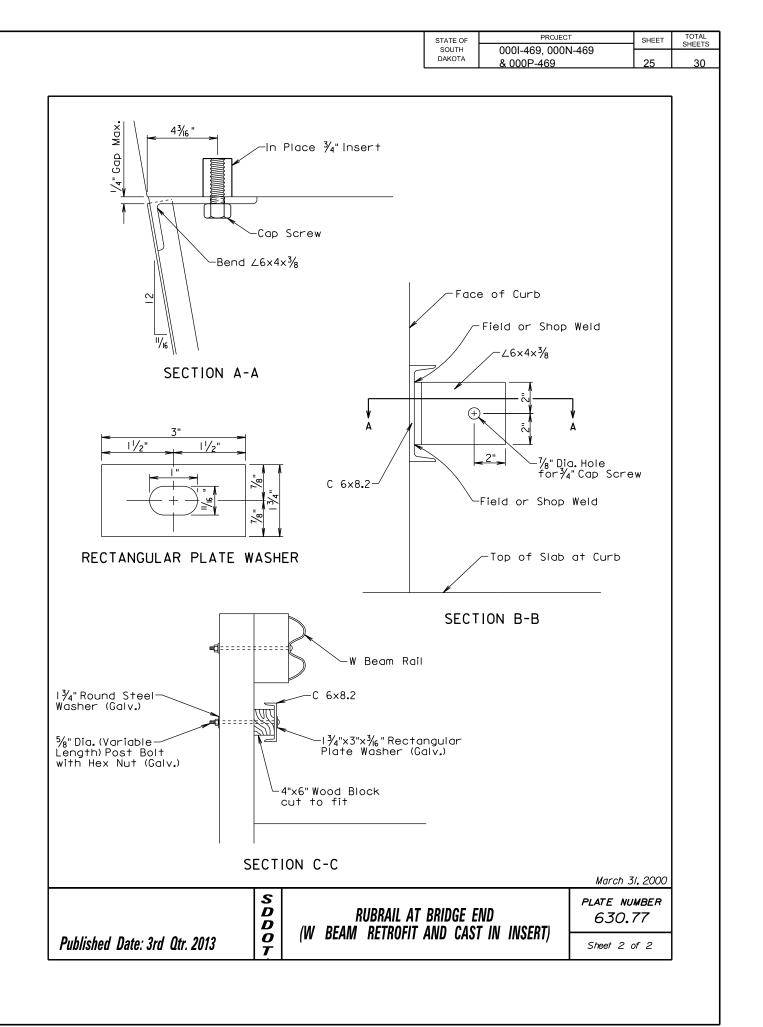


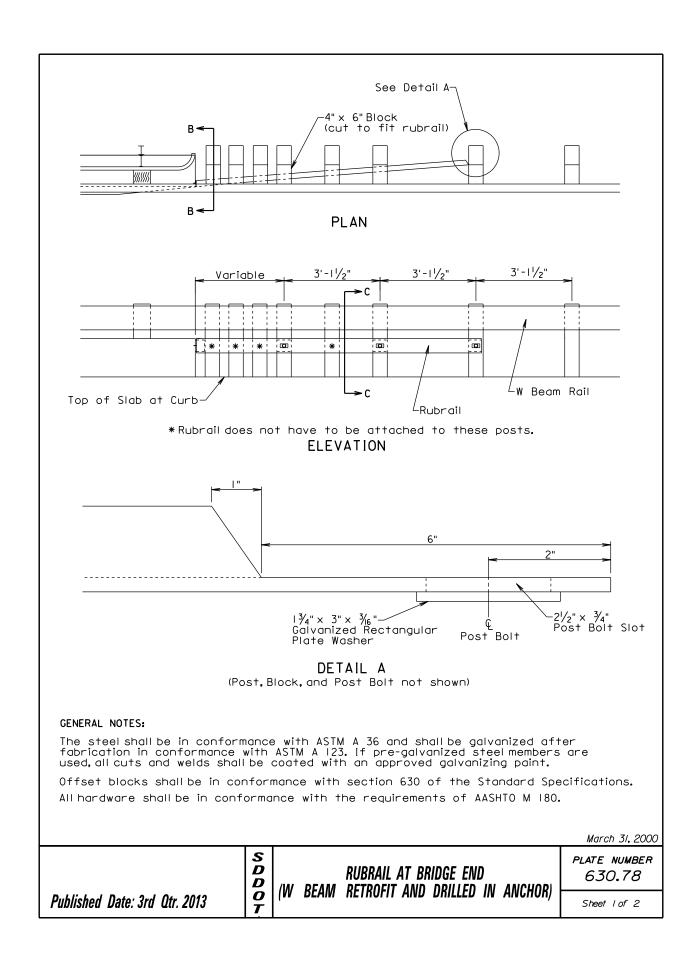


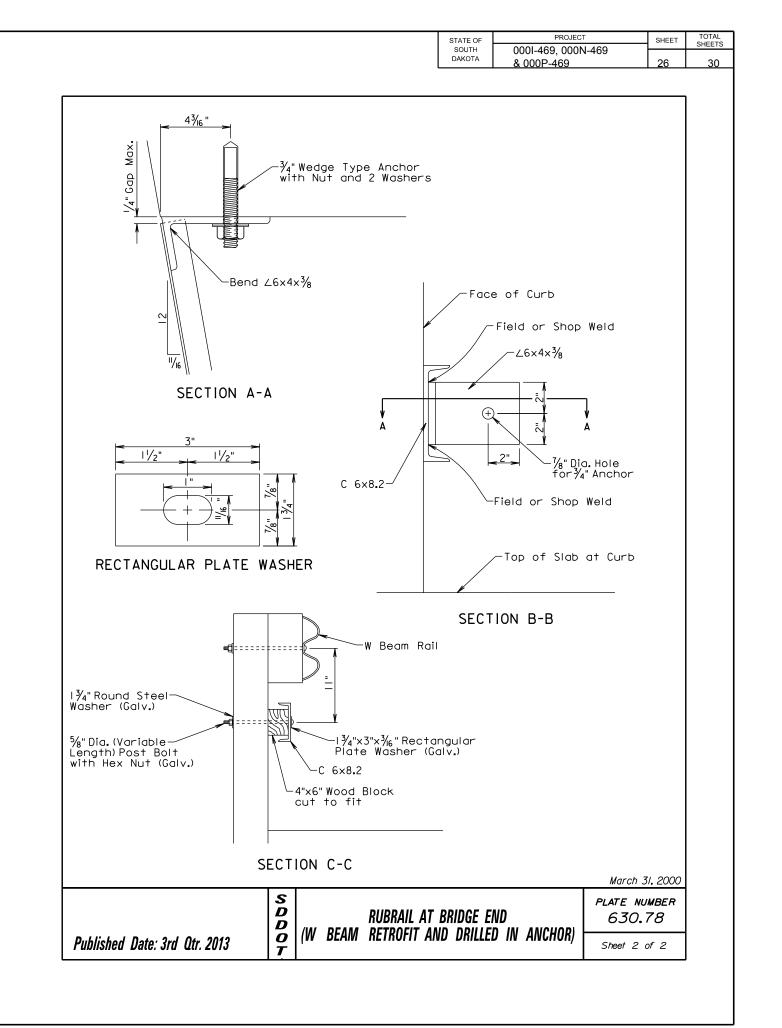


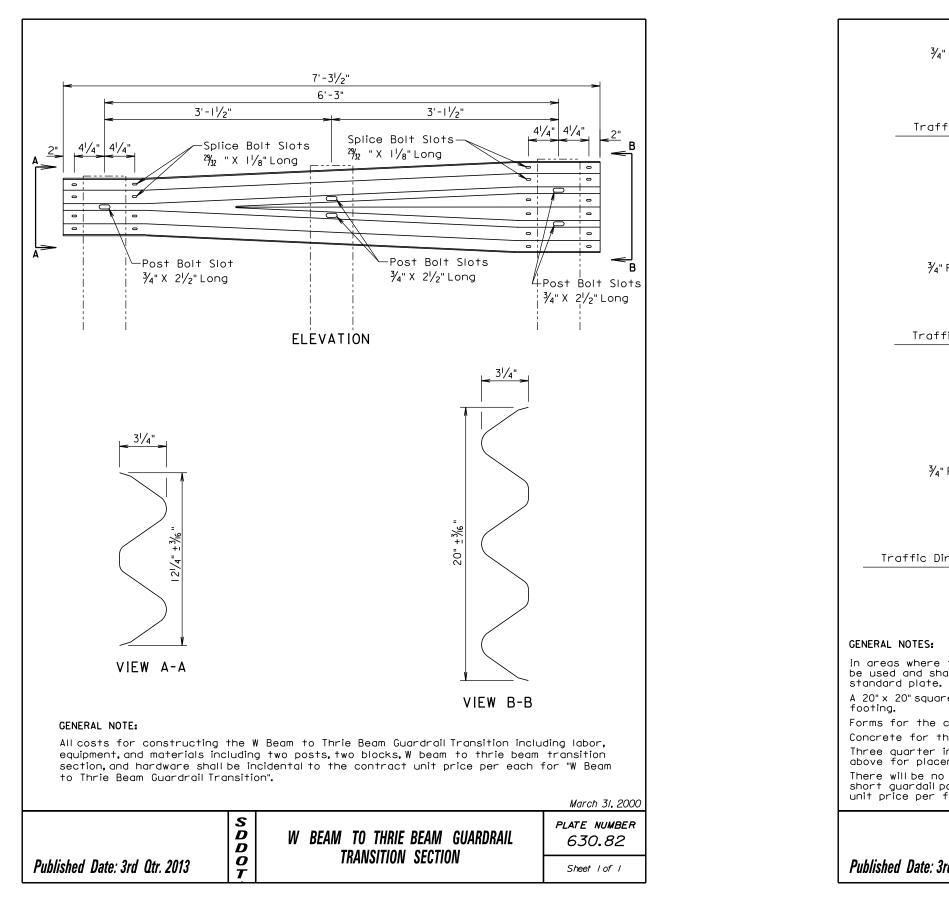


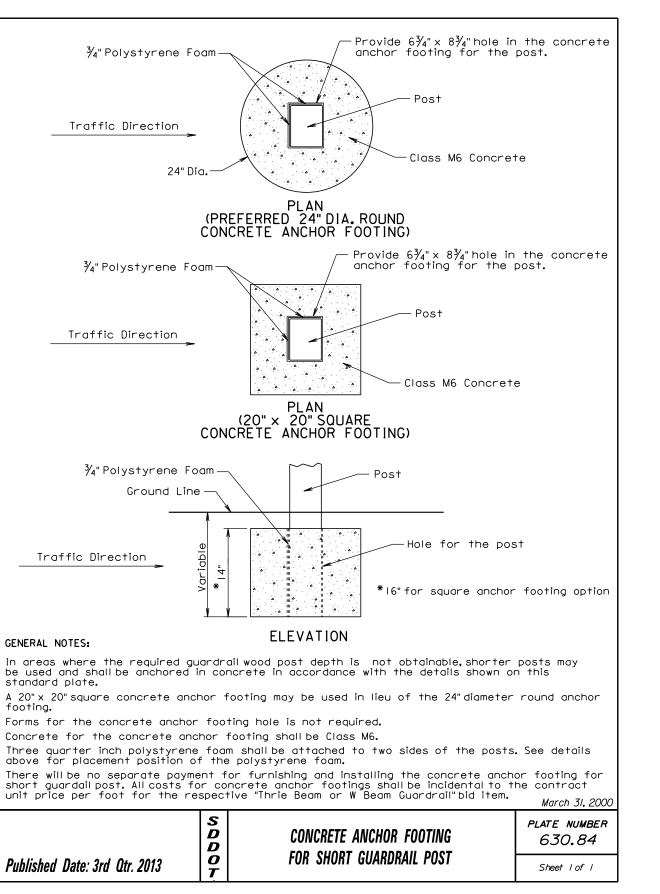




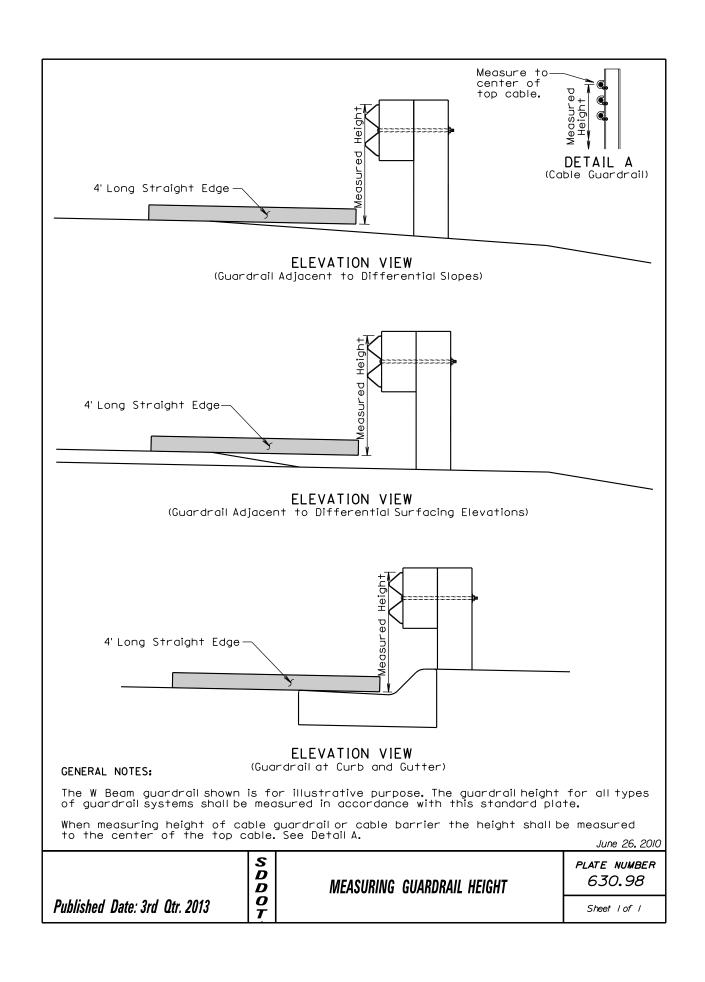


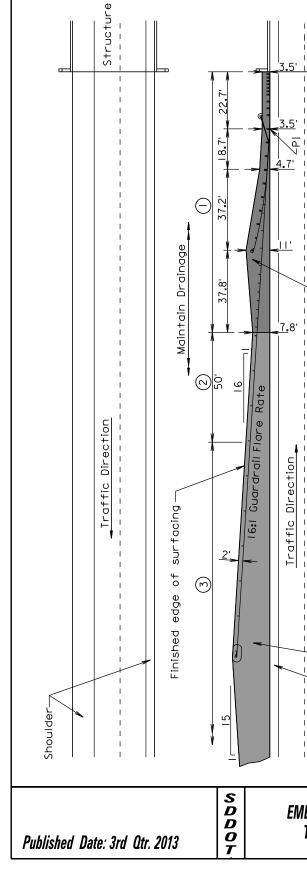






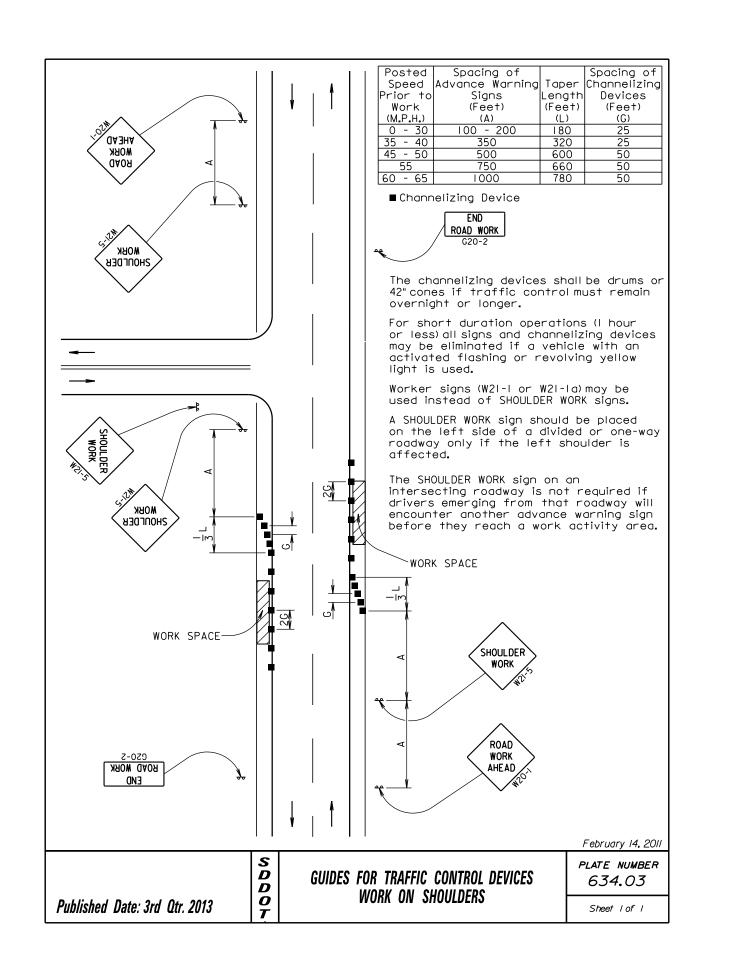
ооргании сооргании соорга	STATE OF	PROJECT	SHEET	TOTAL SHEETS
	SOUTH DAKOTA	000I-469, 000N-469 & 000P-469		30





	STATE OF SOUTH	PROJE 0001-469, 000		SHEET	TOTAL SHEETS
	DAKOTA	& 000P-469	-	28	30
Shoulder The granular material thickness is variable. 2" compacted thickness of asphalt concrete	+. PLAN	 Finished embankment surfacing cross slope shall be the same as the roadway cross slope. Finished embankment surfacing cross slope transition. Finished embankment surfacing cross slope shall be 10:1, however, a cross slope flatter than 10:1 may be used to obtain the 6"minimum thickness of granular material. 		specified in the plans. If granular material type is not specified in the plans, the material shall conform to the SD Standard Specifications for "Base Course".	
NBANKMENT AN	D SURFAC	CING FOR	PLATE NU 630.9	MBER	
TYPICAL MEDIA				99 1 1	
				4 I	

PROJECT



	Date: 3rd Qtr. 2013	S D D O	GU. LAN
be used a control in- required. The buffe so that t placed be- curve to distance	ng devices and t intersecting tersecting road ne two-way tra fore a horizont provide adequa- for the flagger d vehicles.	roads to traffic o be extend ffic taper al or vert te sight	ded - is ·ical
	CSO-S END END		
along the area when	ng devices are centerline adjo pilot cars are traffic throug	cent to w utilized	vork for
	varning signs. Nelizing devices es.	shall be dr	rums
may be us	arning lights ar sed to callatte		
when flag FRESH OIL	and/or flush se gers are not be sign (W21-2)shal e of the liquid	eing used, I be displa	the
WORK signs	WORK AHEAD and 5 may be omitte operations (1 ho	d for sho	rt /
with shor roadways to road u	blume traffic si t work zones or where the flag sers approachir , a single flagge	n straight ger is visi ng from bo	ble oth ,
Ct	nannelizing Devi	ce	
FI	agger		
45 - 50 55 60 - 65	500 750 1000	50 50 50	
0 - 30 35 - 40 45 - 50	200 350	25 25	
Work (M.P.H.)	(Feet) (A)	(Feet) (G)	a
Speed Prior to	dvance Warning Signs	Devices	ng W ir

