STATE OF SOUTH DAKOTA PROJECT SHEET STATE OF SOUTH DAKOTA 085-451 01 DEPARTMENT OF TRANSPORTATION Plotting Date: 16-MAR-2010 PLANS FOR PROPOSED **PROJECT 085–451** INDEX OF SHEETS US HIGHWAY 85 Title Sheet Sheet 2 to 3: Plan Notes LAWRENCE COUNTY Sheet 4 to 6: Plan Sheets Sheet 7 to 11: Standard Plates Storm Sewer Outlet Repair PCN II9R R3E PROJECT DEADWOOD 22 21 23 Z 2 28 27 26 Project Mrm 26.25 DESIGN DESIGNATION 33 ADT (2009) ADT (2029) DHV 35 34 STORM WATER PERMIT No Permit Required GROSS LENGTH 47.5 FEET 0.009 MILES LENGTH OF EXCEPTIONS 0 FEET 0 MILES NET LENGTH 47.5 FEET 0.009 MILES

#### **ESTIMATE OF QUANTITIES**

Bid Item Number	Item	Quantity	Unit
009E0010	Mobilization	Lump Sum	LS
120E0600	Contractor Furnished Borrow	40	CuYo
230E0020	Placing Contractor Furnished Topsoil	4	CuYo
450E4769	24" CMP 16 Gauge, Furnish	16	Ft
450E4770	24" CMP, Install	16	Ft
450E5015	24" CMP Elbow, Furnish	1	Each
450E5016	24" CMP Elbow, Install	1	Each
450E8213	24" Smooth Tapered Sleeve, Furnish	1	Each
450E8214	24" Smooth Tapered Sleeve, Install	1	Each
462E0100	Class M6 Concrete	1.1	CuY
480E0100	Reinforcing Steel	86	Lb
634E0010	Flagging	20	Hou
634E0100	Traffic Control	340	Unit
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
670E4205	Type M Frame and Grate Assembly	1	Each
734E0010	Erosion Control	Lump Sum	LS
734E0102	Type 2 Erosion Control Blanket	40	SqY

#### **SPECIFICATIONS**

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

#### **SCOPE OF WORK**

The scope of work for this project includes installation of a 24" cmp and Type M drop inlet, so that a connection can be made between two existing pipes. The pipe connection will allow the hole along US Highway 85 to be backfilled and leveled with the surrounding area.

#### **CORRUGATED METAL PIPE**

Corrugated metal pipes shall have 2 ¾-inch X ½-inch corrugations for 36-inch and smaller round pipe and 42-inch and smaller arch pipe unless otherwise stated in the plans. Corrugated metal pipes shall have 3-inch X 1-inch corrugations for 42-inch and larger round pipe and 54-inch and larger arch pipe unless otherwise stated in the plans.

#### **WASTE DISPOSAL SITE**

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

Construction/demolition debris may not be disposed of within the State ROW.

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

The waste disposal site(s) shall 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 Engineer.

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

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

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SOUTH DAKOTA	085-451	2	11

#### **CONTRACTOR FURNISHED BORROW**

It is estimated that 40 cubic yards of "Contractor Furnished Borrow" material will be required for back fill of the Type M Median and pipe.

The Contractor shall provide a suitable site for Contractor furnished borrow material. The Contractor is responsible for obtaining all required permits and clearances for the borrow site. The borrow material shall be approved by the Engineer. The plans quantity for "Contractor Furnished Borrow" as shown in the Estimate of Quantities will be the basis of payment for this item.

Restoration of the Contractor furnished borrow site shall be the responsibility of the Contractor.

#### PIPE CONNECTIONS TO EXISTING PIPE

A CMP smooth tapered sleeve shall be inserted into the existing pipe and a concrete collar shall then be poured around the pipe in the area of the connection.

The concrete collar shall consist of placing an 18" wide by 6" thick M6 concrete collar around the outside of the connection. The concrete collar shall be reinforced with 6x6 W2.9 x W2.9 wire mesh.

All costs for constructing the concrete collars including materials and labor shall be incidental to the contract unit price per foot for the corresponding pipe bid item.

#### **DROP INLETS**

The plan shown quantities of the drop inlet components such as Class M6 Concrete, Reinforcing Steel, and Type M Frame and Grate Assembly will be the basis of payment for these items.

If additions or reductions to the number of drop inlets are ordered by the Engineer, payment for the components required to construct the drop inlets will be made at the contract unit prices for the components of the drop inlets.

#### TABLE OF TYPE M MEDIAN DRAINS

				Туре М
				Frame and
		Class M6	Reinforcing	Grate
		Concrete	Steel	Assembly
MRM	L/R	(CuYd)	(Lb)	(Each)
26.2	L	1.11	86.2	1

#### PLACING CONTRACTOR FURNISHED TOPSOIL

It is anticipated that approximately 4 cubic yards of topsoil will be needed for the project. The Contractor will be required to furnish and place 4 inches of topsoil around the median drain.

All costs to furnish and place the topsoil shall be incidental to the contract unit price per cubic yard for "Placing Contractor Furnished Topsoil" and the basis of payment shall be plans quantity.

#### **EROSION CONTROL (PERMANENT SEEDING)**

The areas to be seeded comprise of all disturbed areas in the vicinity of the installed median drain.

All permanent seed shall be planted in the topsoil at a depth of  $\frac{1}{4}$ " to  $\frac{1}{2}$ ".

All seed broadcast must be raked or dragged in (incorporated) within the top  $\frac{1}{4}$ " to  $\frac{1}{2}$ " of topsoil when possible. This requirement may be waived by the Engineer during construction when raking or dragging is deemed not feasible by conventional methods.

South Dakota native grown seed is an acceptable alternative to any of the seed varieties listed below. South Dakota native grown seeds used as an alternative shall conform to the same specification and requirements for that individual seed type.

Type C Permanent Seed Mixture shall consist of the following:

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

All costs to permanent seed the disturbed areas shall be incidental to the contract unit price per Lump Sum for "Erosion Control".

#### **EROSION CONTROL BLANKET**

Erosion control blanket shall be installed around the median drain to cover up all disturbed areas and at locations determined by the Engineer during construction.

The erosion control blanket provided shall be from the approved product list. The approved product list for erosion control blanket may be viewed at the following internet site:

http://www.state.sd.us/Applications/HC54ApprovedProducts/main.asp

The Contractor shall install erosion control blanket according to the manufacturer's installation instructions.

#### **TABLE OF EROSION CONTROL BLANKET**

				Quantity
MRM	L/R	Location	Туре	(SqYd)
26.2	L	Around Median Drain	2	40

#### TRAFFIC CONTROL

The Contractors traffic control shall at all times be in compliance with applicable MUTCD Standards.

Work activities during non-daylight hours are subject to prior approval. Daylight hours are considered to be  $\frac{1}{2}$  hour before sunrise until  $\frac{1}{2}$  hour after sunset.

Construction signing that remains in the same location for more than 3 days shall be mounted on fixed supports, unless otherwise stated in these plans or with the prior approval of the Engineer.

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

Storage of vehicles and equipment shall be outside the clear zone and as near as possible to the right-of-way line. Contractor's employees should mobilize at a location off the right-of-way 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 to 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.

All equipment and vehicles entering and exiting closed lanes of traffic shall display a flashing amber light visible from all directions a minimum distance of ¼ mile.

The Contractor shall coordinate his operations such that during non-working hours the roadway shall be open to two-way traffic for the entire width of the roadway.

#### **INVENTORY OF TRAFFIC CONTROL DEVICES**

SIGN CODE	SIGN SIZE	DESCRIPTION	NUMBER REQUIRED	UNITS PER SIGN	UNITS
G20-2	36" x 18"	END ROAD WORK	2	17	34
W20-1	48" x 48"	ROAD WORK AHEAD	2	34	68
W20-4	48" x 48"	ONE LANE ROAD AHEAD	2	34	68
W20-7a	48" x 48"	FLAGGER	2	34	68
W20-7b	48" x 48"	BE PREPARED TO STOP	2	34	68
W21-5	48" x 48"	SHOULDER WORK	1	34	34
			TOTAL	UNITS	340

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Highway R.O.W. Marker

# EXISTING TOPOGRAPHY SYMBOLOGY Plotting Date: 16-MAR-2010

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SOUTH DAKOTA	085-451	04	11

# AND LEGEND

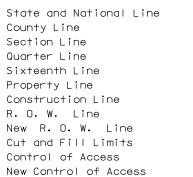
Anchor	$\leftarrow$
Antenna	ठ
Approach	
Assumed Corner	<b>⑦</b> )
Azimuth Marker	<u> </u>
Bbq Grill/ Fireplace	▲
Bearing Tree	<b>6</b>
Bench Mark	<u> </u>
Box Culvert	
Bridge	
Brush	ಹಾವಾ
Buildings	
Bulk Tank	
Cattle Guard	
Cemetery	†
Centerline	
Cistern	©
Clothes Line	
Commercial Sign Double Face	ä
Commercial Sign One Post	 Þ
Commercial Sign Overhead	bood
Commercial Sign Two Post	<b>b</b>
Concrete Symbol	###
Creek Edge	
Curb/Gutter	=====:
Curb	======
Dam Grade/Dike/Levee	
Ditch Block	<b>200</b>
Drainage Profile	<del></del>
Drop Inlet	
Edge Of Asphalt	
Edge Of Concrete	
Edge Of Gravel	<del></del>
Edge Of Other	
Edge Of Shoulder	
Elec. Trans./Power Jct. Box	<b>(P</b> )
Fence Barbwire	
Fence Chainlink	
Fence Electric	<del></del>
Fence Misc.	<i></i>
Fence Rock	000000000000000000000000000000000000000
Fence Snow	
Fence Wood	
Fence Woven	
Fire Hydrant	<u>&amp;</u>
Flag Pole	P
Flower Bed	$\gamma \gamma \gamma \gamma$
Gas Valve Or Meter	<b>@</b>
Gas Pump Island	©
Grain Bin	(iii)
Guardrail	0—0—
Gutter	17777
Guy Pole	<u> </u>
Haystack	
Hedge	622

Information Sign One Post
Information Sign One Post Information Sign Two Post
Interstate Close Gate
Iron Pin
Irrigation Ditch
Lake Edge
Lawn Sprinkler
Mailbox
Manhole Electric
Manhole Gas
Manhole Misc
Manhole Sanitary Sewer
Manhole Storm Sewer
Manhole Telephone
Manhole Water
Merry-Go-Round
Microwave Radio Tower
Misc. Property Corner
Misc. Post
Overhang Or Encroachment
Overhead Utility Line Parking Meter
Pipe With End Section
Pipe With Headwall
Pipe Without End Section
Playaround Slide
Playground Swing
Power And Light Pole
Power And Telephone Pole
Power Meter
Power Pole
Power Pole And Transformer
Power Tower Structure
Propane Tank Property Pipe
Property Pipe With Cap Property Stone
Public Telephone
Railroad Crossing Signal
Railroad Milepost Marker
Railroad Profile
Railroad R.O.W. Marker
Railroad Signs
Railroad Switch
Railroad Track
Railroad Trestle
Rebar
Rebar With Cap
Reference Mark Retaining Wall
Riprap
River Edge
Rock And Wire Baskets
Rockpiles
Route Sign One Post

Route Sign Two Post

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Septic Tank	φ
Shrub Tree	ස
Sidewalk	
Sign Face	<u> </u>
Sign Post	0
Slough Or Marsh	athtee—
Spring	Ø
Stream Gauge	<u>e</u>
Street Marker	
Telephone Fiber Optics	— T/
Telephone Junction Box	Ī
Telephone Pole	0
Television Cable Jct Box	<b>™</b>
Television Tower	苓
Test Wells/Bore Holes	<u>@</u>
Traffic Signal	<b>‡</b>
Trash Barrel	
Tree Belt	~~
Tree Coniferous	*
Tree Deciduous	6
Tree Stumps	A
Triangulation Station	<b>A</b>
Underground Electric Line	— F
Underground Gas Line	— G
Underground Sanitary Sewer	— s
Underground Storm Sewer	= s
Underground Tank	
Underground Telephone Line	— т
Underground Television Cable	— т
Underground Water Line	— w
Warning Sign One Post	þ
Warning Sign Two Post	b
Water Fountain	Ţ
Water Hydrant	0
Water Meter	<b>W</b>
Water Tower	<u> </u>
Water Valve	0
Water Well	•
Weir Rock	
Windmill	8
Wingwall	
Witness Corner	<b>@</b>
State and National Line	
County Line	
Section Line	
Quarter Line	





PROJECT STATE OF SHEET 085-451 05

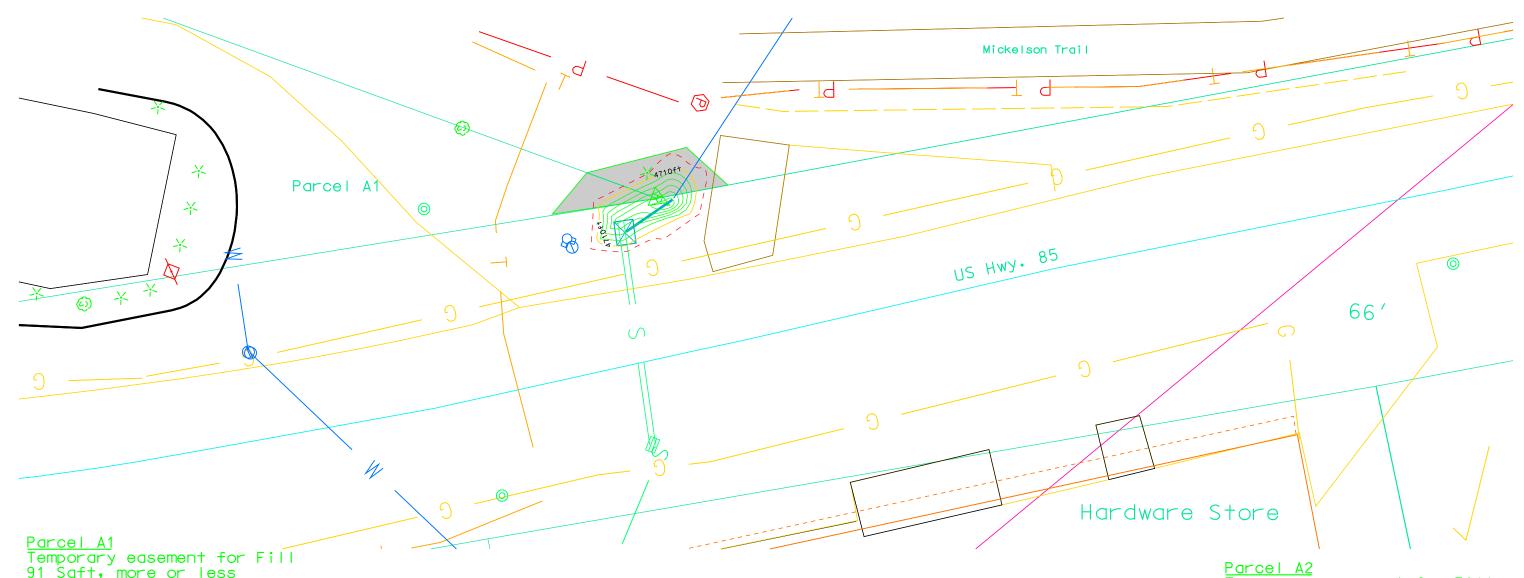
Plotting Date: 16-MAR-2010

Sec. 27 - T5N - R3E



Scale: 1'' = 20'

Parcel A2



Lana L. Sternhagen and James A. Sternhagen Parcel A1

Mrm 26.2 Install Type M Median Drain

24"- 16' CMP, 22.5° elbow and a

Smooth Tapered Sleeve

Beginning at Corner No. 1 from which corner No. 18 of Placer 107 bears S. 66° 09' E. a distance of 273.4 feet, thence N. 26°33′W. a distance of 96.2 feet to Corner No. 2, thence N. 05° 40 W. a distance of 91.0 feet to Corner No. 3; thence N 06°30′ E. a distance of 50 feet to Corner No. 4; thence N. 04° 16′ W. a distance of 130.3 feet to Corner No. 5; thence in a southerly direction along the right of way of highway 85 at a distance of 405.5 feet more or less to Corner No. 6; thence along the line from Corner No. 18 of Placer 107 to Corner No.1 of Liberty Motel tract, now known as Killarney Motel, N 66° 09' W. a distance of 30.2 feet of Corner No. 1 the place of beginning. City of Deadwood, Lawrence County, South Dakota.

Parcel A2 Temporary easement for Fill 164 Saft, more or less

City of Deadwood Parcel A2

A portion of the Burlington Northern Railroad Co. right of way located in M.S. 107, City of Deadwood, Lawrence County, South Dakota

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ı	SOUTH DAKOTA			SHEETS
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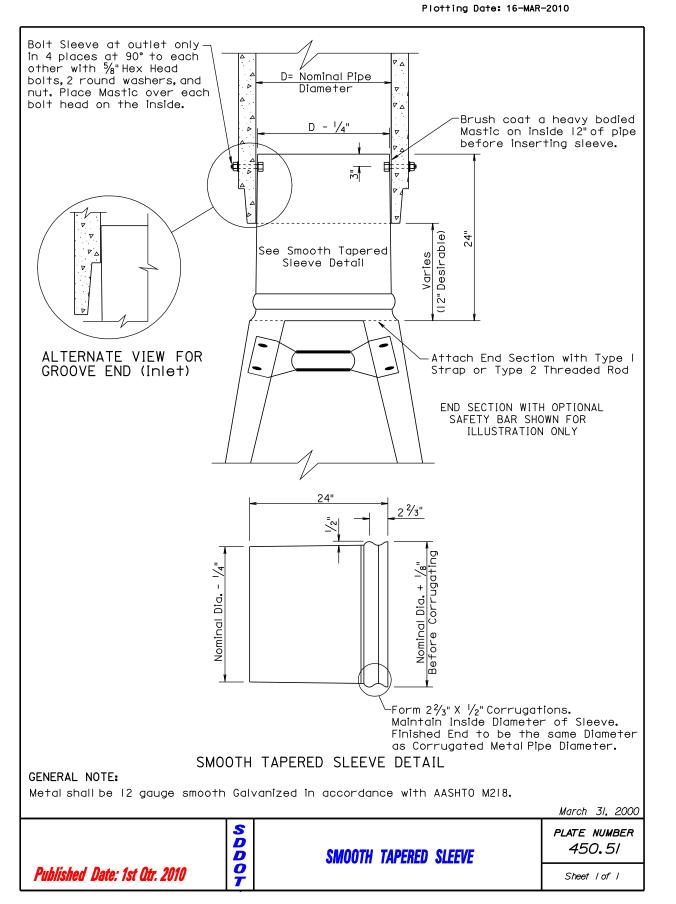
Plotting Date: 16-MAR-2010

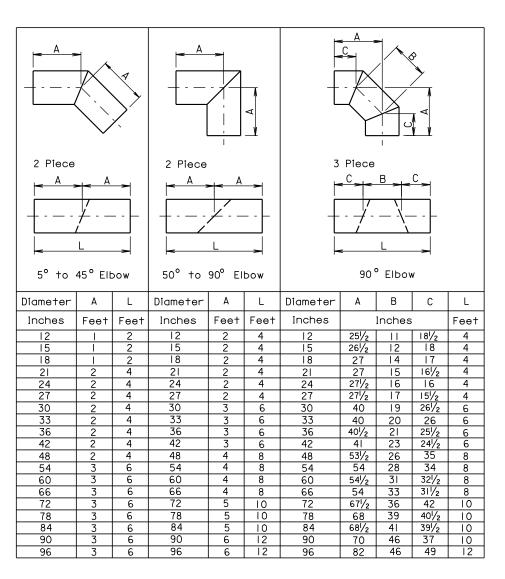
## Cross Section of Storm Sewer Outlet Repair

Scale: 1" = 10'

		4725
		4720
Inst	all Type M Median Drain	
		4715
Match elevation of shoulder		
	US Highway 85	
10:1		4710
New 24" cmp		
	Existing Pipe Under US 85	
	atch invert elevation of 24" cmp	4705
Existing CMP		
		4700
	Mrm	26.2 4695
	0	100

TTED FROM - TRRC11951





FABRICATED ELBOW LENGTHS FOR ALL CORRUGATIONS

#### GENERAL NOTES:

All dimensions shown are nominal.

L = Linear Feet of C.M.P. required to fabricate fitting.

June 26, 2001

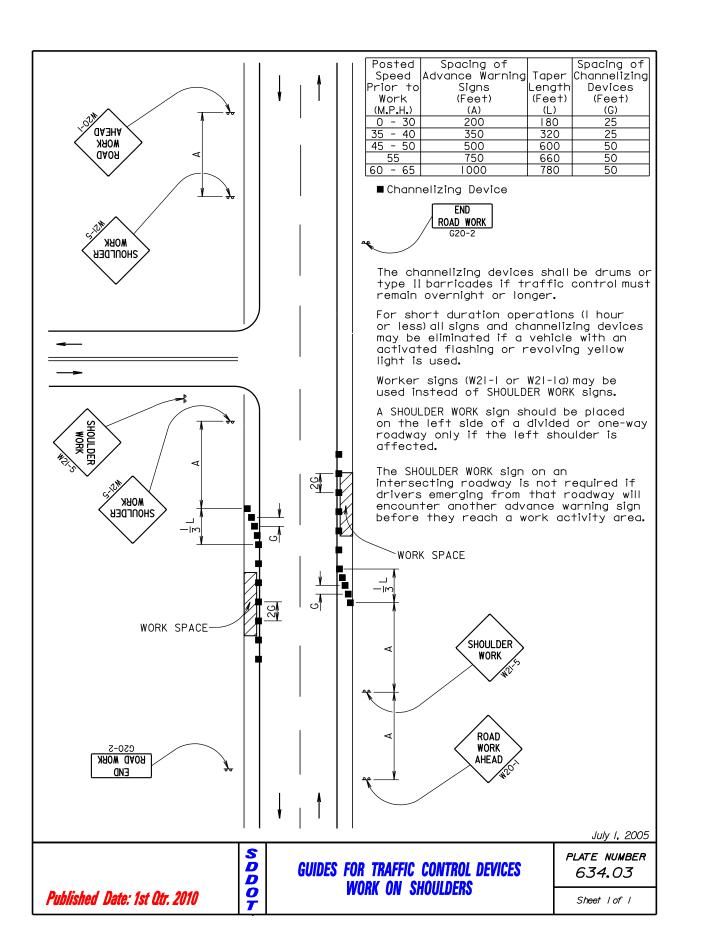
S D D

C.M.P. FABRICATED LENGTHS FOR ELBOWS

PLATE NUMBER 450.32

Published Date: 1st Qtr. 2010

Sheet I of I



STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
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#### Plotting Date: 16-MAR-2010

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

#### **■** Flagger

■ Channelizing Device

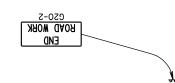
For low-volume traffic situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger may be used.

The ROAD WORK AHEAD and the END ROAD WORK signs may be omitted for short duration operations (I hour or less).

For tack and/or flush seal operations, when flaggers are not being used, the FRESH OIL sign (W2I-2) shall be displayed in advance of the liquid asphalt areas.

Flashing warning lights and/or flags may be used to call attention to the advance warning signs.

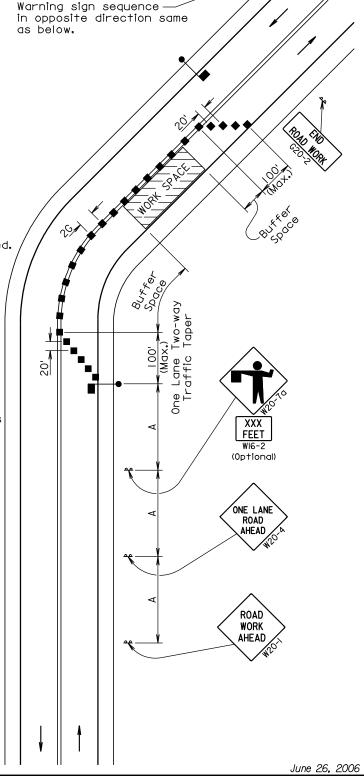
The channelizing devices shall be drums or type II barricades if traffic control must remain overnight or longer. During daylight hours, 42" cones may be used in lieu of drums or type II barricades along the centerline.



Channelizing devices are not required along the centerline adjacent to work area when pilot cars are utilized for escorting traffic through the work area.

Channelizing devices and flaggers shall be used at intersecting roads to control intersecting road traffic as required.

The buffer space shall be a sufficient length so that the channelizing devices are visible to approaching traffic.



1et Ntr 2010

DDO

GUIDES FOR TRAFFIC CONTROL DEVICES LANE CLOSURE WITH FLAGGER PROVIDED

PLATE NUMBER 634.23

Sheet I of I

Published Date: 1st Qtr. 2010

20" Diameter

clearance checks)

(Perimeter of stub height

TOTAL SHEETS

11



(Examples of stub height clearance checks)

Top of Anchor Post or Slip Base-Chord Line Ground Line-

#### GENERAL NOTES:

Examples of

60" Chord Line Clearance Checks

The top of anchor posts and slip bases SHALL NOT extend above a 60" chord line within a 120" diameter circle around the post with ends 4" above the ground.

**ELEVATION VIEW** 

At locations where there is curb and gutter adjacent to the breakaway sign support, the stub height shall 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.

July I, 2005

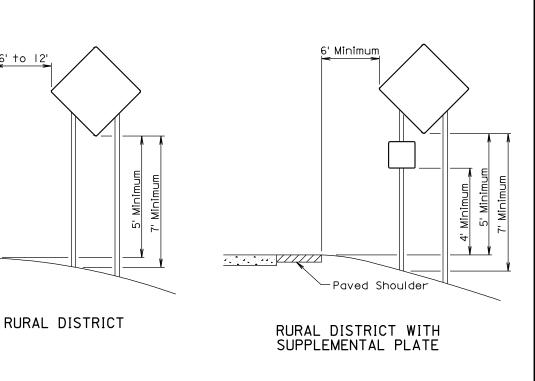
**BREAKAWAY SUPPORT STUB CLEARANCE** 

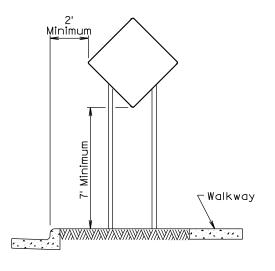
Sheet I of I

PLATE NUMBER

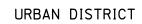
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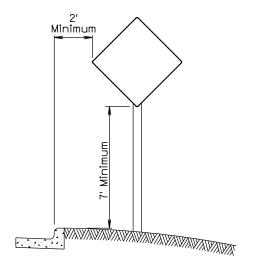
Published Date: 1st Qtr. 2010





6' to 12'





URBAN DISTRICT

December 23, 2003 PLATE NUMBER

D DO BREAKAWAY SIGN SUPPORTS (Typical Construction Signing)

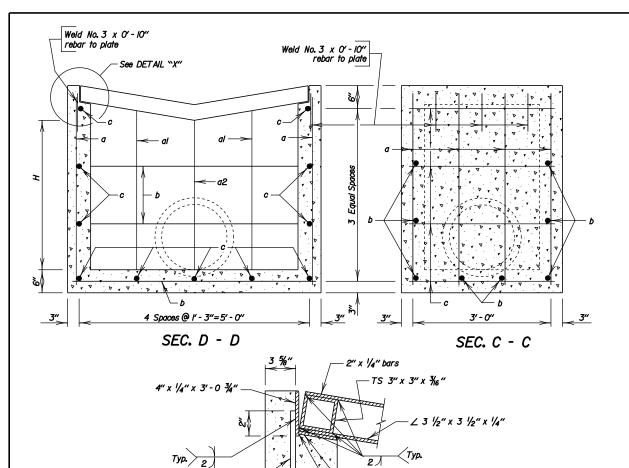
Sheet I of I

*634.85* 

ublished Date: 1st Qtr. 2010

SDDOT





### DETAIL "X"

#### GENERAL NOTES:

Maximum H = 4'-0"

The total quantity of concrete shall be computed to the nearest hundredth of a cubic yard. The total quantity of reinforcing steel shall be computed to the nearest pound.

Cut and bend reinforcing steel during construction as necessary to accommodate pipe outlet. All Concrete shall be Class M6.

# 3 x 0'- 10" Rebar

All reinforcing steel shall conform to ASTM A615 Grade 60.

All structural steel shall conform to ASTM A36. Tubes shall conform to ASTM A500 or A501.

All exposed edges shall be chamfered 3/4 Inch.

Use  $1\frac{1}{2}$  inch clear cover on all reinforcing steel except as shown.

After welding is complete, galvanize the frame and grate assembly in accordance with AASHTO MIII (ASTM AI23). For information only, the estimated weight of the frame and grate assembly is 358 pounds.

Type M Median Drain shall be paid for at the contract unit price per each or by the individual bid items as shown in the plans, which shall be full compensation for furnishing all materials and labor including necessary excavation and backfill required to construct one complete drain.

The location and size of pipe outlet from the drain shall be as noted on cross section sheets.

September 14, 2001

PE M	MEDIAN	DRAIN	PLATE NUMBER 670.65
			Sheet 2 of 2

REINFORCING SCHEDULE

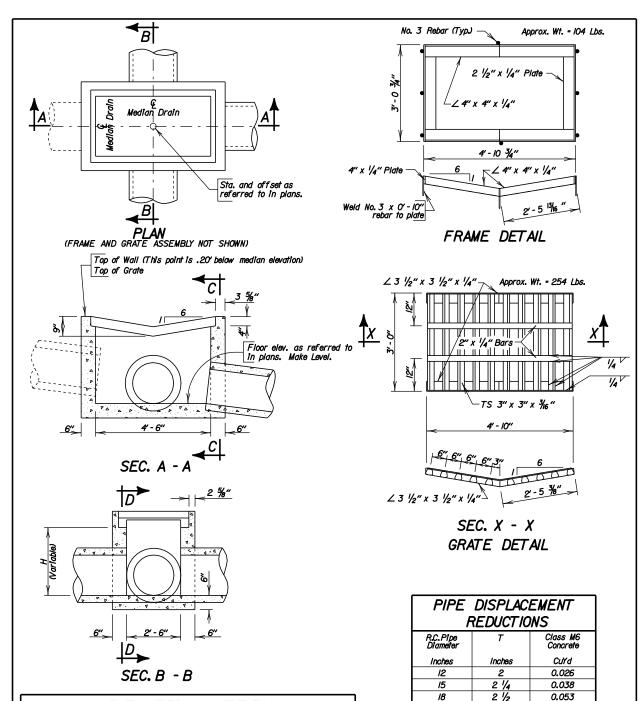
Mk. No. Size Length Type

a 8 4  $H+12^{\prime\prime}$  Str. al 4 4 H + 10" Str.

a2 2 4 H+9" Str.

b 8 4 5'-3" Str. c 11 4 3'-3" Str.

All dimensions are out to out of bars.



ESTIMATED QUANTITIES			
Item	Unit	Constant Quantity	Variable Quantity
→ Class M6 Concrete	CuYd	0.49	0.30H
Reinforcing Steel	Lb	6/	9.35H
Type M Frame and Grate Assembly	Each	1	

D

D 0

imes Reduce total quantities of concrete by the volume displaced by the pipe.

September 14, 2001

0.091

0./38

0.196

0.263

PLATE NUMBER 670.65

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TYPE M MEDIAN DRAIN

24

30

36

42

3 1/2

4 1/

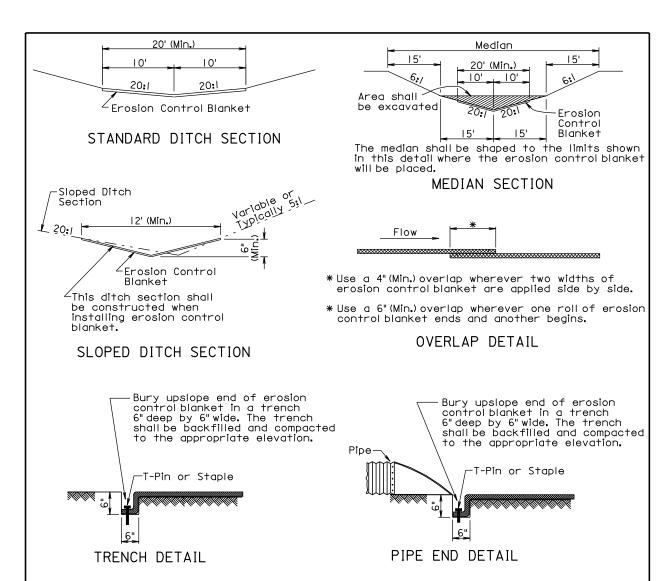
Published Date: 1st Qtr. 2010

D DO

TYP

-2 1/2" x 1/4" x 2" - 4 3/4"

NOTE:



#### GENERAL NOTES:

ıblished Date: 1st Qtr. 2010

Prior to placement of the erosion control blanket, the areas shall be properly prepared, shaped, seeded, and fertilized.

Erosion control blanket shall be unrolled in the direction of the flow of water when placed in ditches and on slopes. The upslope end of the erosion control blanket shall be buried in a trench 6" wide by 6" deep. There shall be at least a 6" overlap wherever one roll of erosion control blanket ends and another begins, with the upslope erosion control blanket placed on top of the downslope erosion control blanket.

The erosion control blanket shall be pinned to the ground according to the manufacturer's installation recommendations.

After the placement of the erosion control blanket, the Contractor shall fine grade along all edges of the blanket to maintain a uniform slope adjacent to the blanket and level any low spots which might prevent uniform and unrestricted flow of side drainage directly onto the erosion control blanket.

All ditch sections shall be shaped when installing the erosion control blanket. All costs for shaping the ditches shall be incidental to the contract unit price per foot for "Shaping for Erosion Control Blanket".

December 23, 2004

S D D O

EROSION CONTROL BLANKET

PLATE NUMBER 734.01

Sheet | of |

STATE OF	PROJECT	SHEET	TOTAL SHEETS
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Plotting Date: 16-MAR-2010

Username - trrcllS