

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	000P-169	1	13
Plotting Date: 02/17/2026			

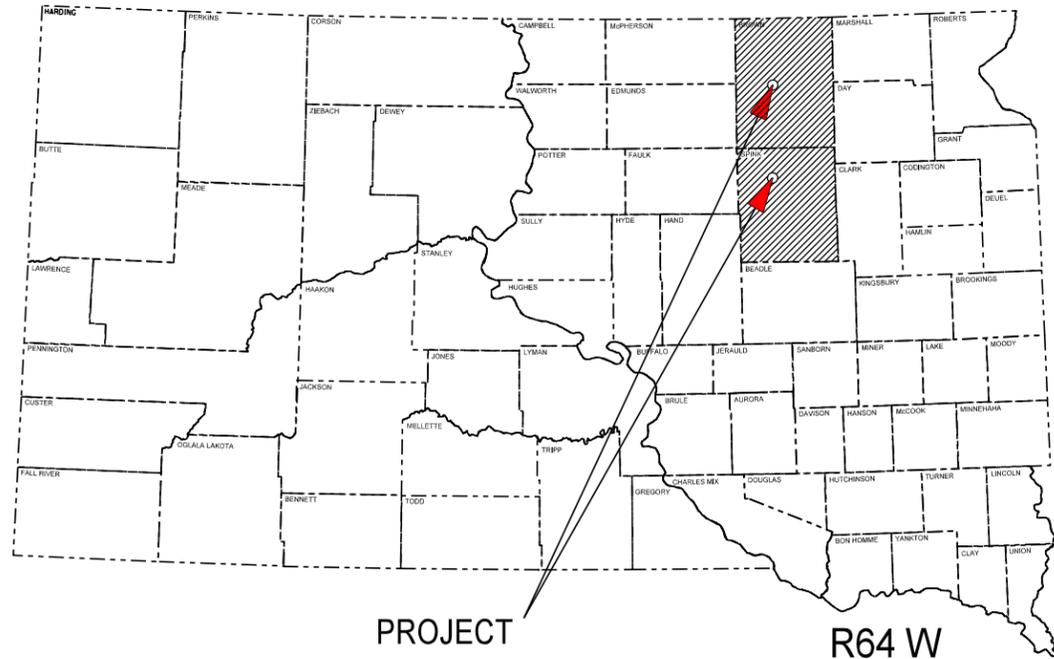
STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED

PROJECT 000P-169
US HIGHWAYS 12 & 281
BROWN & SPINK COUNTIES

INTERSECTION LIGHTING
PCN i80Q

INDEX OF SHEETS

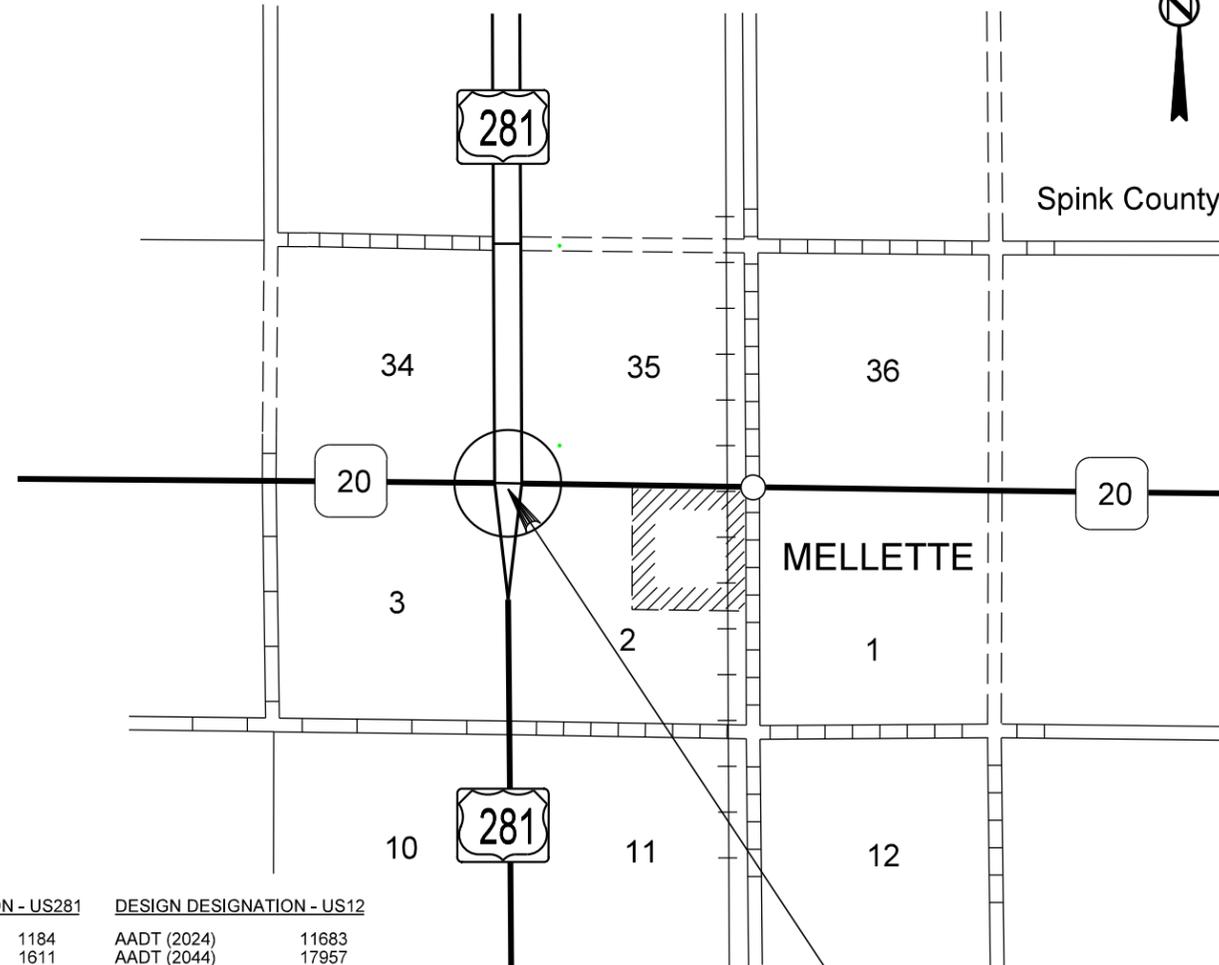
- SHEET 1 TITLE SHEET & LAYOUT
- SHEET 2-3 ESTIMATE OF QUANTITIES & ENVIRONMENTAL COMMITMENTS
- SHEET 4-5 PLAN NOTES
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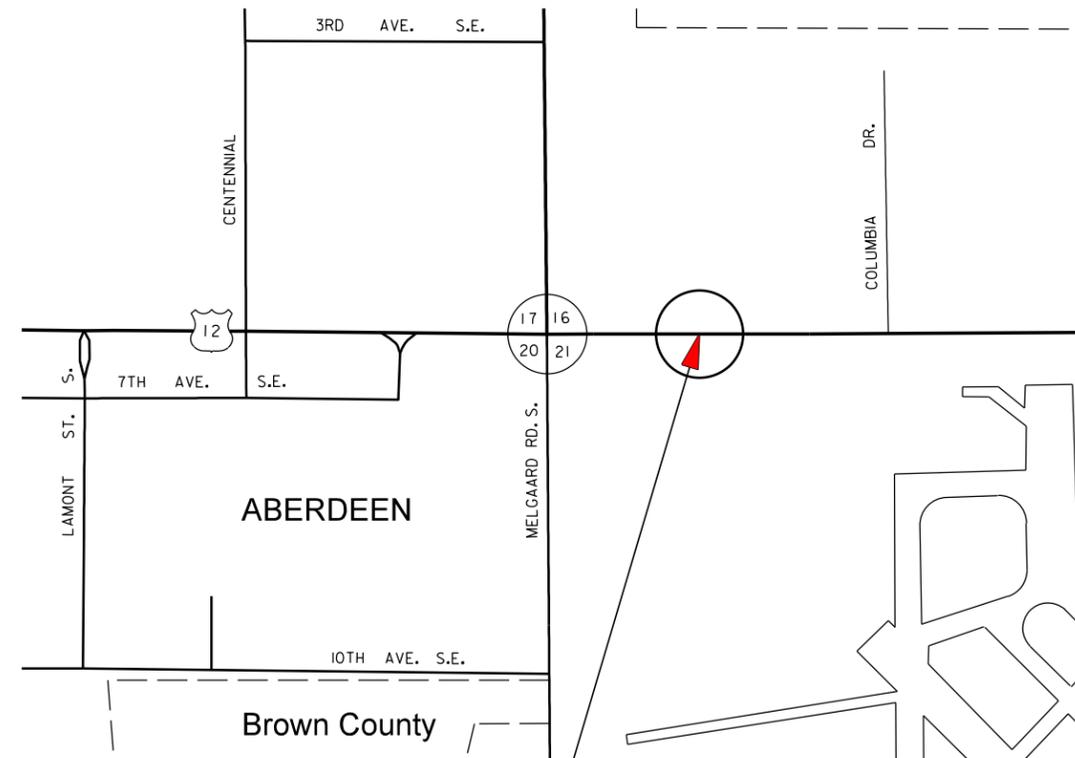
PROJECT R64 W

T1120 N

T1119 N



STA. 2+07 - L1
MRM 173.391



Missing Pole - L4
MRM 293.118
US12 WB

DESIGN DESIGNATION - US281		DESIGN DESIGNATION - US12	
AAADT (2024)	1184	AAADT (2024)	11683
AAADT (2044)	1611	AAADT (2044)	17957
DHV	179	DHV	1991
D	50%	D	50%
DHV T%	10%	DHV T%	7.1%
AAADT T%	22%	AAADT T%	15.5%
V	65 MPH	V	45 MPH

STORM WATER PERMIT

Not Required

PLOTTED FROM - ITRAB17879B

PLOTTED FROM - ITRAB17879B

PLOT NAME - 1

FILE - ... \PRJ\SPNK1800\TTLESHEET.DGN

ESTIMATE OF QUANTITIES – i80Q

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E4100	Construction Schedule, Category I	Lump Sum	LS
110E1540	Remove Luminaire Pole Footing	1	Each
250E0010	Incidental Work	Lump Sum	LS
634E0110	Traffic Control Signs	254.5	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0275	Type 3 Barricade	2	Each
634E0420	Type C Advance Warning Arrow Board	1	Each
635E0025	Breakaway Base Luminaire Pole with Arm, 25' Mounting Height	1	Each
635E0050	Breakaway Base Luminaire Pole with Arm, 50' Mounting Height	1	Each
635E3700	Roadway Luminaire, LED with Photoelectric Cell	2	Each
635E5020	2' Diameter Footing	9.0	Ft
635E6200	Miscellaneous, Electrical	Lump Sum	LS
635E8120	2" Rigid Conduit, Schedule 40	40	Ft
635E9016	1/C #6 AWG Copper Wire	155	Ft
635E9710	2/C #10 AWG Copper Pole and Bracket Cable	105	Ft

SPECIFICATIONS

Standard Specifications for Roads and Bridges, 10-1-25 Version, Required Provisions, and Special Provisions as included in the Proposal. The Standard Specifications for Roads and Bridges are available for download and viewing at <https://dot.sd.gov/doing-business/contractors/standard-specifications>.

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/doing-business/environmental/about-environmental/>

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 B4: BALD AND GOLDEN EAGLE

Bald and/or Golden eagles are known to occur in this area.

Action Taken/Required:

If a nest is observed within one mile of the project site, notify the Project Engineer immediately so that he/she can consult with the Environmental Office for an appropriate course of action.

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.

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
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COMMITMENT I: HISTORIC PRESERVATION OFFICE CLEARANCES

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

Action Taken/Required:

All earth disturbing activities 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 150 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.

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.

SUPPLYING AS BUILT PLANS

If the roadway lighting system is constructed differently than what is stated in the plans, the Contractor will supply as built plans to the Engineer and a copy will be sent to the Traffic Design Engineer. The as built plans may include conduit layouts, wiring diagrams, or other drawings depicting the changes from the original plans.

SHOP DRAWING AND CATALOG CUTS SUBMITTALS

The Contractor will submit shop drawings and catalog cuts in accordance with Section 985 of the Specifications.

PDF submittals will be sent to the following email addresses:

Stacy.Bartlett@state.sd.us
Matt.Dorfschmidt@state.sd.us

INCIDENTAL WORK

Incidental work includes, but is not limited to, the restoration of all disturbed areas to the satisfaction of the Engineer.

REMOVE LUMINAIRE POLE FOOTING

The footings of existing luminaire poles L1 will be removed by the Contractor to a minimum of 2 feet below the ground surface. Restoration of the disturbed area will be to the satisfaction of the Engineer.

All costs for removing the footings of the existing luminaire poles will be incidental to the contract unit price per each for "Remove Luminaire Pole Footing".

LUMINAIRE POLES

Luminaire pole L1 will have a mounting height of 50 feet with an 8 feet arm.

Luminaire pole L4 will have a mounting height of 25 feet with an 8 feet arm.

The pole fabricator will be responsible for the determining the diameter, length, and number of anchor bolts.

LUMINAIRES

The accepted design for the roadway luminaire L1 will provide 1.2 and greater average maintained foot-candles and a uniformity ratio (average maintained to minimum maintained foot-candles) of 3:1 and less using the following parameters:

Lamp Loss Factor (LLF): 0.8
Width of Lighted Area: 64 feet
Luminaire Cycle Length: 185 feet
Configuration: Staggered
Mounting Height: 50 feet
Lamp: LED

The lighting design for luminaire pole L4 will provide 1.2 and greater average maintained foot-candles and a uniformity ratio (average maintained to minimum maintained foot candles) of 3:1 and less and (maximum to minimum maintained foot candles) 5:1 and less using the following parameters:

Setback: 5 Ft.
Lamp Loss Factor (LLF) 0.8 LED
Width of lighted area: 60 Ft.
Spacing: 117 Ft.
Configuration: Both Sides
Mounting Height: 25 Ft.
Lamp: LED

The following luminaires, or an approved equal, will be used for this project

- a.) Cooper Streetworks Archeon Large
ARCH-L-PA3-160-740-U-T2R-AP-LLPC-PR7
- b.) American Electric Lighting
Autobahn ATB0-P454-MVOLT-R2-P7-PCLL

TABLE OF FOOTING DATA

Site Designation	Footing Diameter	* Footing Depth	**Spiral Diameter	**Spiral Length	Vertical Reinforcement
L1	2' - 0"	9' - 0"	1' - 8"	60' - 0"	8-#7 x 8' - 6"

* Footing depth will be below ground level.
** The size of all spirals will be #3.

SUBSURFACE

Groundwater will be encountered at ditch grade elevation, approximately 4 feet below the ground surface.

Concrete placement operations should immediately follow excavation procedures. The longer the excavations are left open, the more likely caving will occur. If caving soils are encountered, it may be necessary to use casing or drilling fluids to maintain an open excavation. Casing will be of sufficient strength to withstand handling and installation procedures. Casing material may consist of Sonotube, corrugated metal pipe, PVC, smooth metal pipe or any other material as approved by the Engineer. Drilling fluids can be water or other slurries as approved by the Engineer. Concrete placed through drilling fluids will be tremied.

MISCELLANEOUS, ELECTRICAL

The Contractor will splice the new wires for pole L1 into the existing lighting system wiring at junction box JL1. All costs for labor and material to splice into the existing roadway lighting system will be incidental to the contract lump sum price for "Miscellaneous, Electrical".

WIRE SPLICING FOR LIGHTING

All wire splices for lighting will be made using TE Connectivity GTAP connectors, NSI Industries Polaris Blue connectors, or an approved equal.

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.

GENERAL TRAFFIC CONTROL

Existing guide, route, informational logo, regulatory, and warning signs will be temporarily reset and maintained during construction. Removing, relocating, covering, salvaging, and resetting of existing traffic control devices, including delineation, will be the responsibility of the Contractor. Cost for this work will be incidental to the contract unit prices for the various items unless otherwise specified in the plans. Any delineators and signs damaged or lost will be replaced by the Contractor at no cost to the State.

All temporary traffic control sign locations will be set in the field by the Contractor and verified by the Engineer prior to installation.

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

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

Fixed location signing placed more than 4 calendar days prior to the start of construction will be covered or laid down until the time of construction. The covers must be approved by the Engineer prior to installation. The cost of materials, labor, and equipment necessary to complete this work will be incidental to other contract items. No separate payment will be made.

All fixed location signs, sign posts, and breakaway bases will be removed within 7 calendar days following pavement marking.



Missing Pole – L4

ITEMIZED LIST FOR DETOUR SIGNING

SIGN CODE	SIGN DESCRIPTION	CONVENTIONAL ROAD				EXPRESSWAY / INTERSTATE			
		NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
	LEFT TURN LANE W/ ARROW		30" x 30"	6.3		1	36" x 36"	9.0	9.0
R3-7L	LEFT LANE MUST TURN LEFT		30" x 30"	6.3		1	36" x 36"	9.0	9.0
W1-6	LARGE ARROW (one direction)		48" x 24"	8.0		1	60" x 30"	12.5	12.5
W4-2	LEFT or RIGHT LANE ENDS (symbol)		48" x 48"	16.0		2	48" x 48"	16.0	32.0
W20-1	ROAD WORK AHEAD	2	48" x 48"	16.0	32.0	4	48" x 48"	16.0	64.0
W20-5	LEFT or RIGHT LANE CLOSED AHEAD		48" x 48"	16.0		2	48" x 48"	16.0	32.0
W21-5	SHOULDER WORK	2	48" x 48"	16.0	32.0	2	48" x 48"	16.0	32.0
		CONVENTIONAL ROAD DETOUR SIGNING SQFT 64.0				EXPRESSWAY / INTERSTATE DETOUR SIGNING SQFT 190.5			

TRAFFIC CONTROL DETAIL

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

Care should be taken to warn drivers of vision obstructions for left-turning vehicles caused by equipment, material, and work operations in the work area.

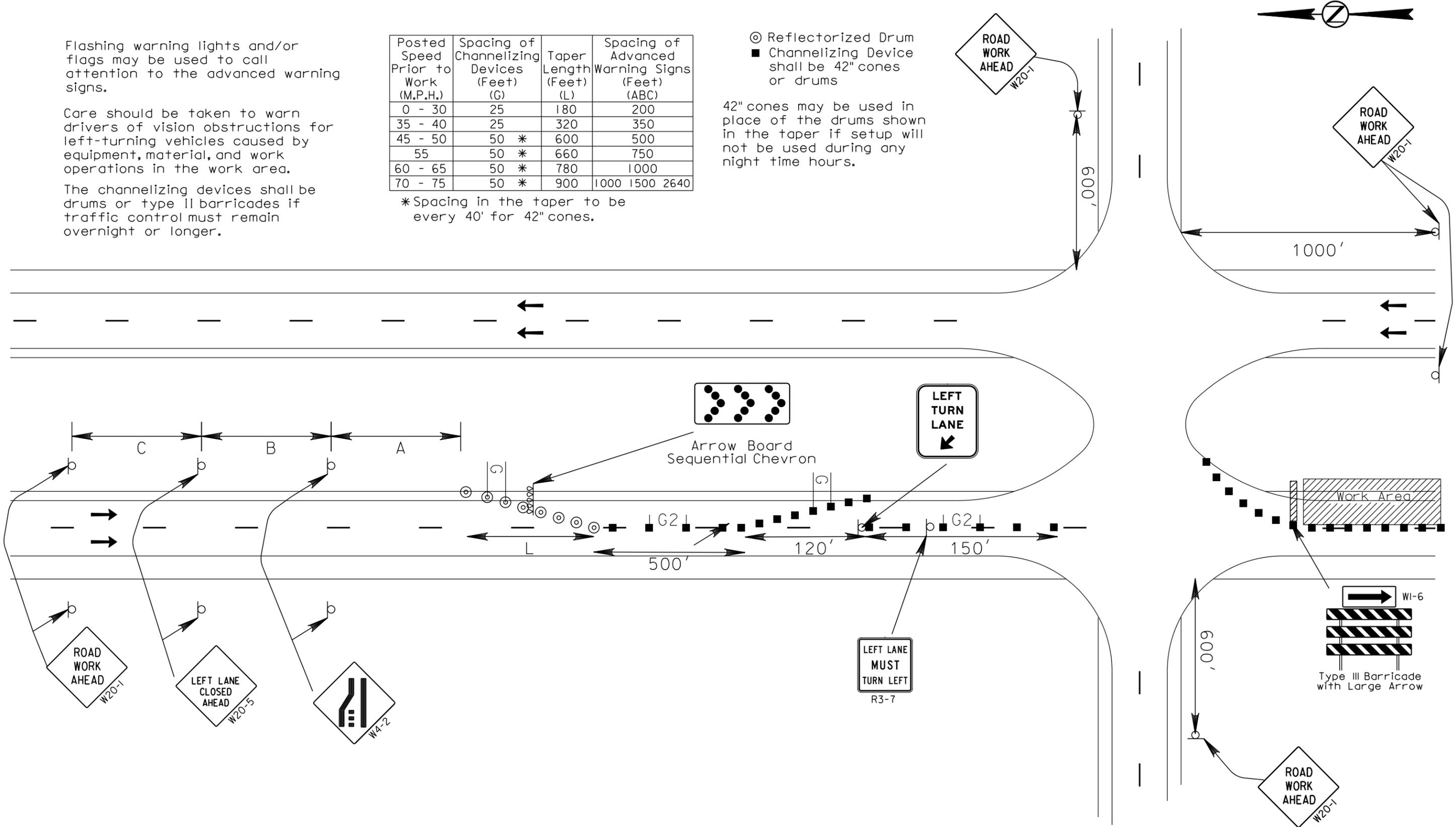
The channelizing devices shall be drums or type II barricades if traffic control must remain overnight or longer.

Posted Speed Prior to Work (M.P.H.)	Spacing of Channelizing Devices (Feet) (G)	Taper Length (Feet) (L)	Spacing of Advanced Warning Signs (Feet) (ABC)
0 - 30	25	180	200
35 - 40	25	320	350
45 - 50	50 *	600	500
55	50 *	660	750
60 - 65	50 *	780	1000
70 - 75	50 *	900	1000 1500 2640

*Spacing in the taper to be every 40' for 42" cones.

- ⊙ Reflectorized Drum
- Channelizing Device shall be 42" cones or drums

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



PLOT SCALE - 1:40

PLOTTED FROM - TRAB17879B

PLOT NAME - 5

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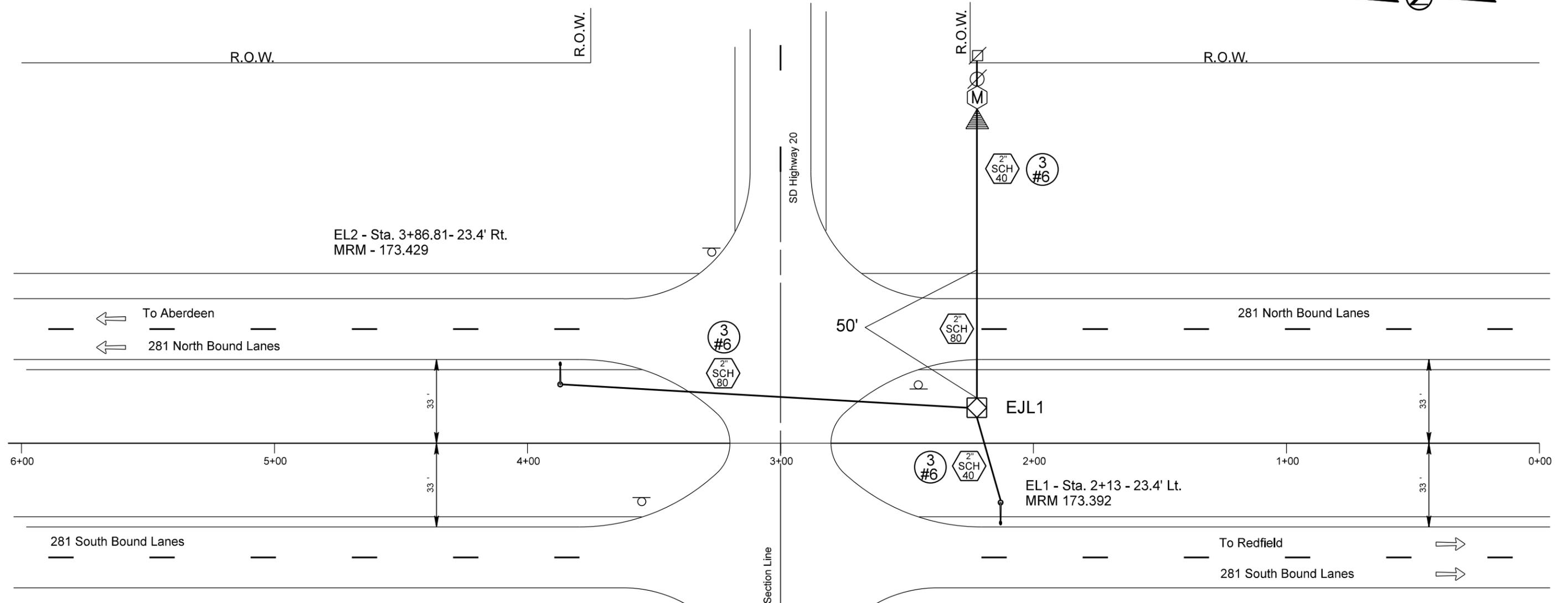
EXISTING CONDUIT LAYOUT

STATE OF SOUTH DAKOTA	PROJECT 000P-169	SHEET NO. 7	TOTAL SHEETS 13
Plotting Date: 02/04/2026			



PLOT SCALE - 1"=40'

PLOT NAME - 2



EXISTING ITEMS			
KEY	ITEM	EST QUANT	UNIT
	BREAKAWAY BASE LUMINAIRE POLE WITH 8' ARM 50' MOUNTING HEIGHT (EL1 AND EL2)	2	EACH
	GALVANIZED STEEL UTILITY POLE (NO A BID ITEM)	1	EACH
	ROADWAY LUMINAIRE, 400 WATT WITH P.E. CELL (EL1 AND EL2)	2	EACH
	2\"/>	16	FT
	TYPE 1 ELECTRICAL JUNCTION BOX (EJL1)	1	EACH
	ELECTRICAL SERVICE CABINET	1	EACH
	METER SOCKET	1	EACH
	2\"/>	116	FT
	2\"/>	230	FT
	1/C #6 AWG COPPER WIRE	1,160	FT
	2/C #10 AWG COPPER POLE AND BRACKET CABLE	130	FT

SCALE
1" = 40'

PLOTTED FROM - TRAB17879B

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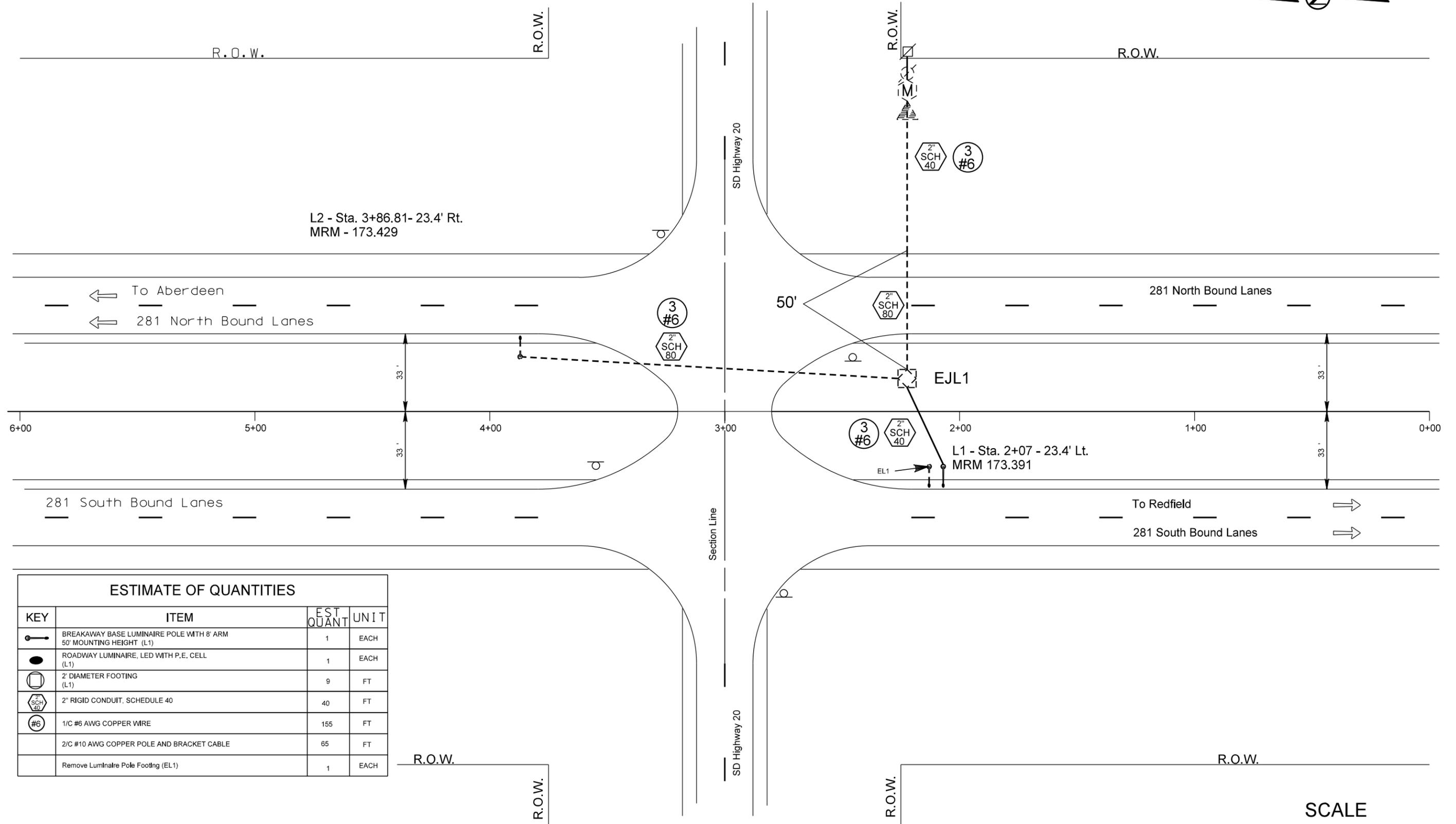
CONDUIT LAYOUT

STATE OF SOUTH DAKOTA	PROJECT 000P-169	SHEET NO. 8	TOTAL SHEETS 13
Plotting Date: 02/04/2026			



PLOT SCALE - 1"=40'

PLOT NAME - 3



ESTIMATE OF QUANTITIES

KEY	ITEM	EST QUANT	UNIT
	BREAKAWAY BASE LUMINAIRE POLE WITH 8' ARM 50' MOUNTING HEIGHT (L1)	1	EACH
	ROADWAY LUMINAIRE, LED WITH P.E. CELL (L1)	1	EACH
	2' DIAMETER FOOTING (L1)	9	FT
	2" RIGID CONDUIT, SCHEDULE 40	40	FT
	1/C #6 AWG COPPER WIRE	155	FT
	2/C #10 AWG COPPER POLE AND BRACKET CABLE	65	FT
	Remove Luminaire Pole Footing (EL1)	1	EACH

SCALE
1" = 40'

PLOTTED FROM - TRAB17879B

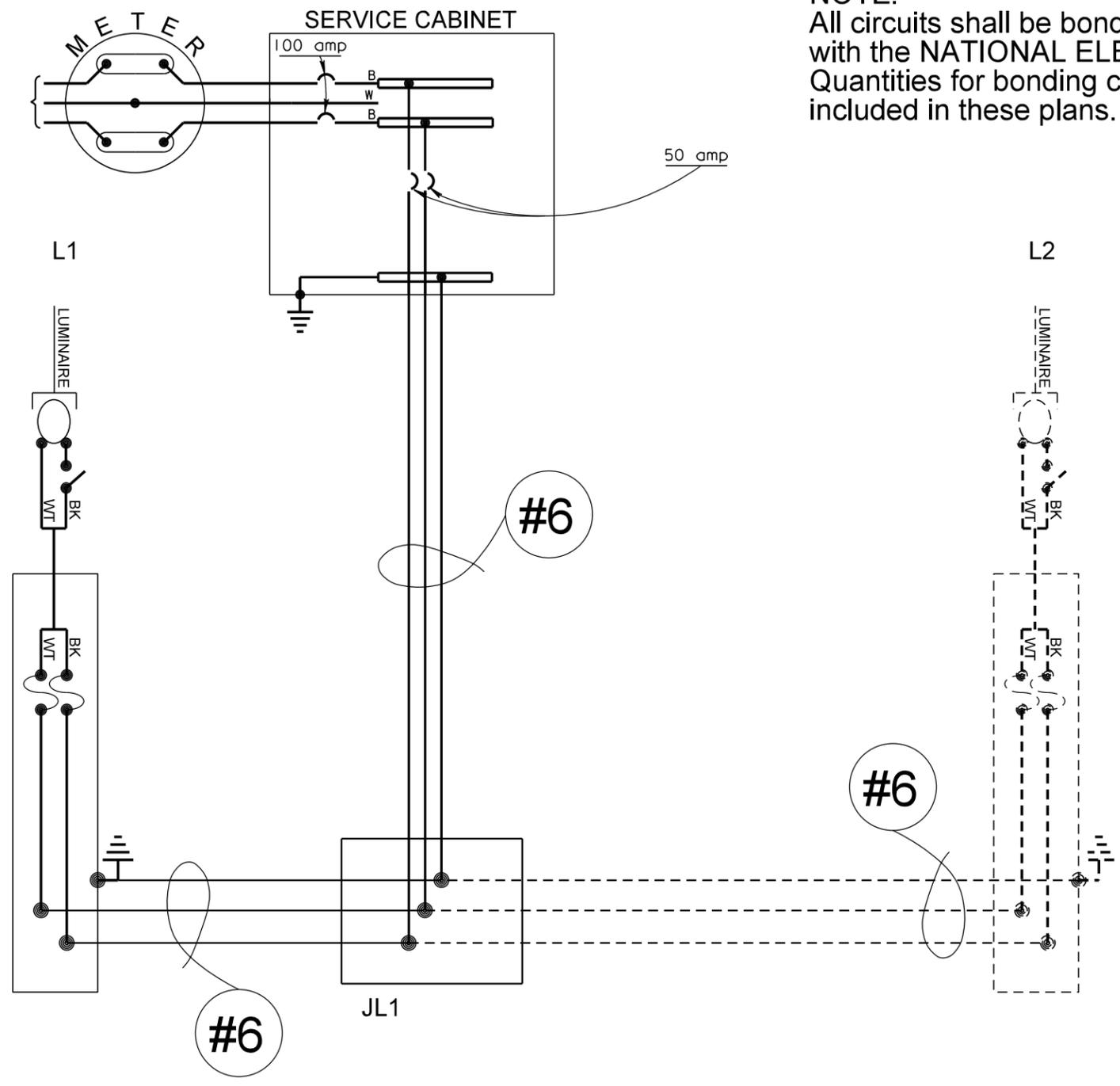
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WIRING DIAGRAM

STATE OF SOUTH DAKOTA	PROJECT 000P-169	SHEET NO. 9	TOTAL SHEETS 13
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120\240 v.a.c., 60hz.,
1 Phase, 3 Wire Service
By Northwestern Energy

- LEGEND:
- FUSE: 15 amp. Non-Time Delay
or
5 6/10 amp. Dual Element
 - LUMINAIRE: LED



Plot Scale - 1:40

Plotted From - TRAB17879B

Plot Name - 4

File - ... \Sprink800\wiring diagram.dgn

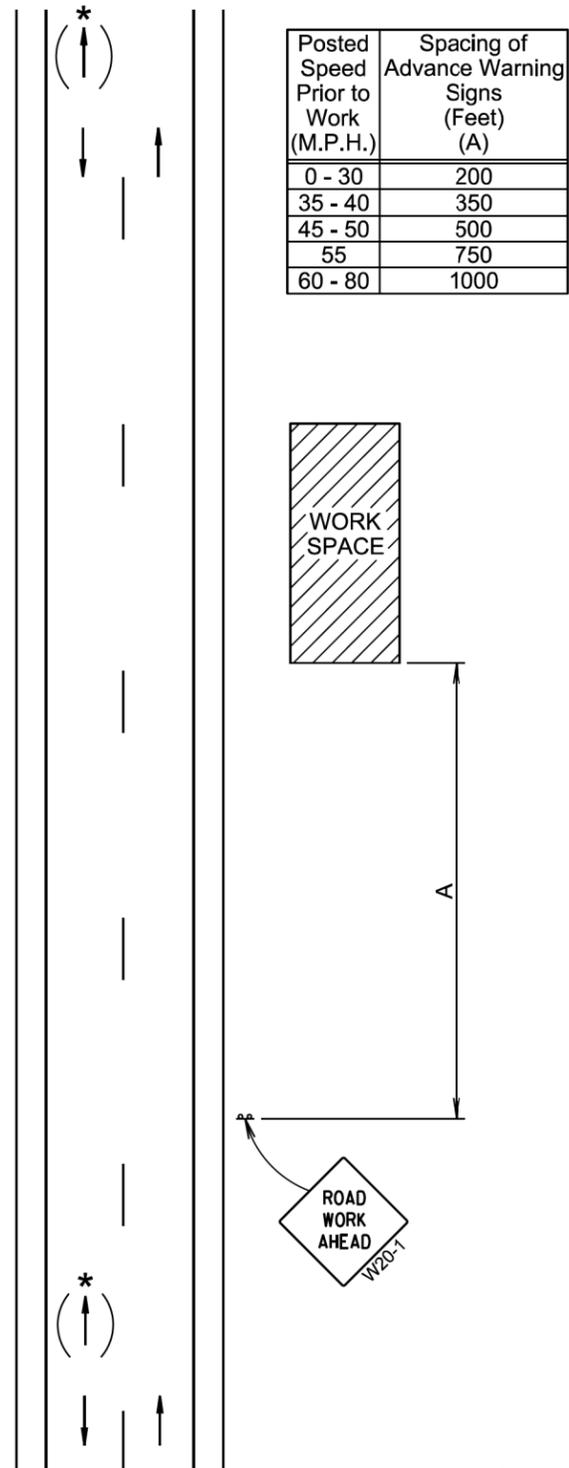
The signs illustrated are not required if the work space is behind a barrier, more than 2 feet behind the curb, or 15 feet or more from the edge of any roadway.

The signs illustrated will be used where there are distracting situations; such as: vehicles parked on shoulder, vehicles accessing the work site via the highway, and equipment traveling on or crossing the roadway to perform work operations.

The ROAD WORK AHEAD sign may be replaced with other appropriate signs, such as the SHOULDER WORK sign. The SHOULDER WORK sign may be used for work adjacent to the shoulder.

* If the work space is on a divided highway, an advance warning sign should also be placed on the left side of the directional roadway.

For short term, short duration, or mobile operations, all signs and channelizing devices may be eliminated if a vehicle with an activated flashing or revolving yellow light is used.



January 22, 2021

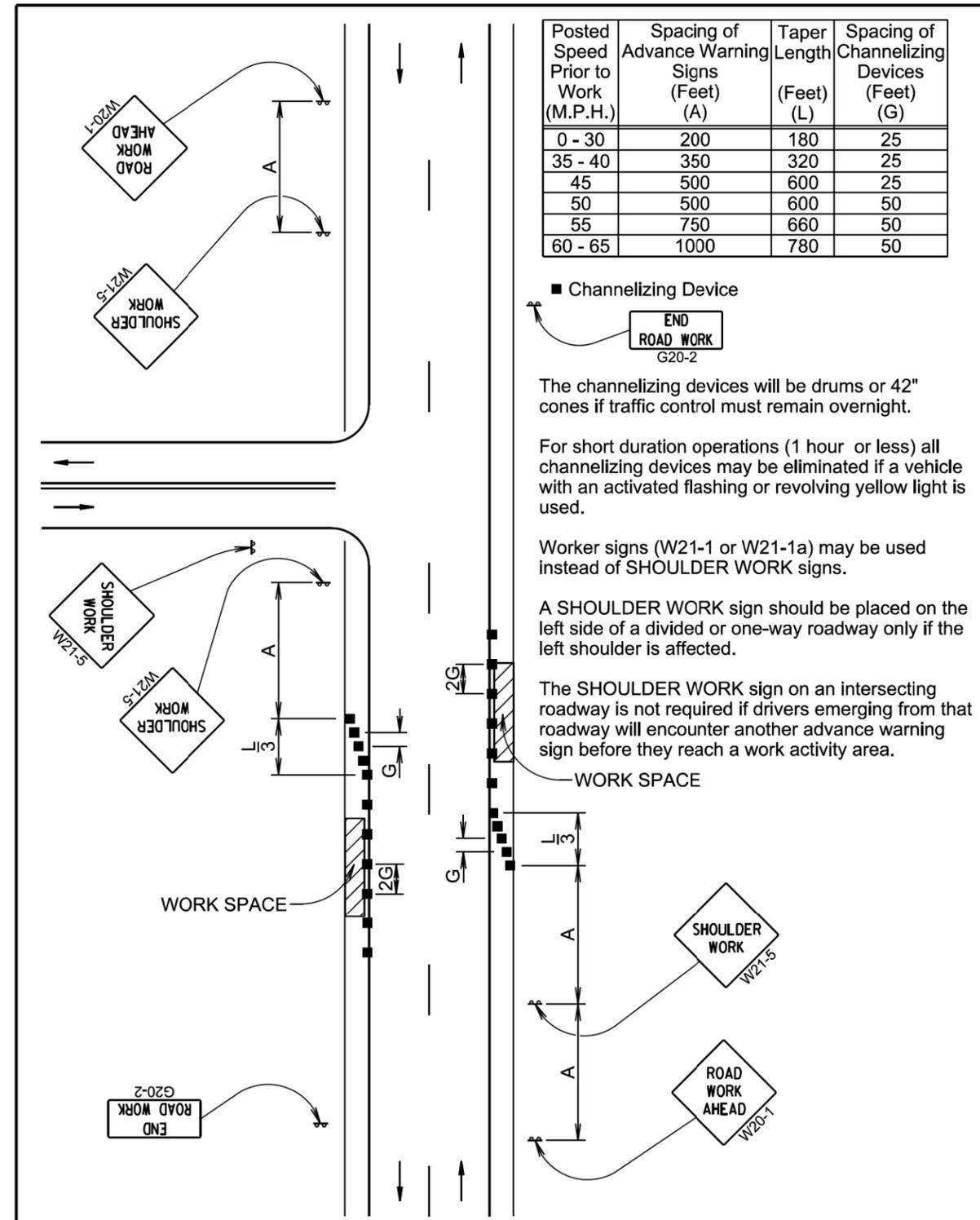
S
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WORK BEYOND THE SHOULDER

PLATE NUMBER
634.01

Sheet 1 of 1

Published Date: 2026



January 22, 2021

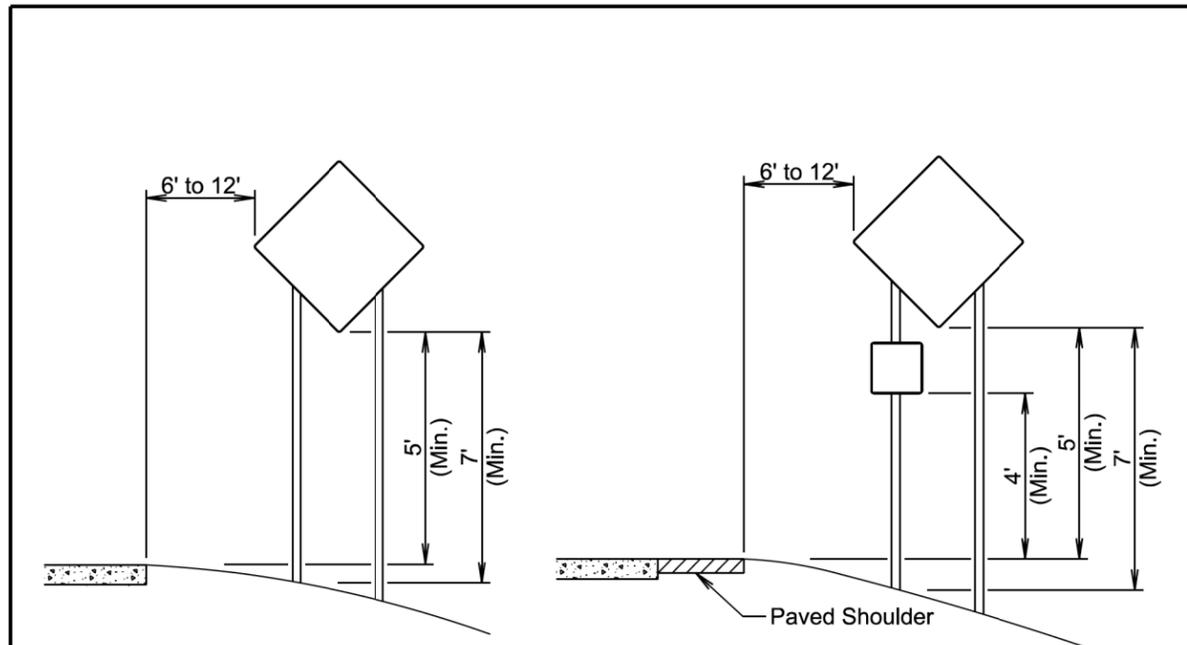
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WORK ON SHOULDERS

PLATE NUMBER
634.03

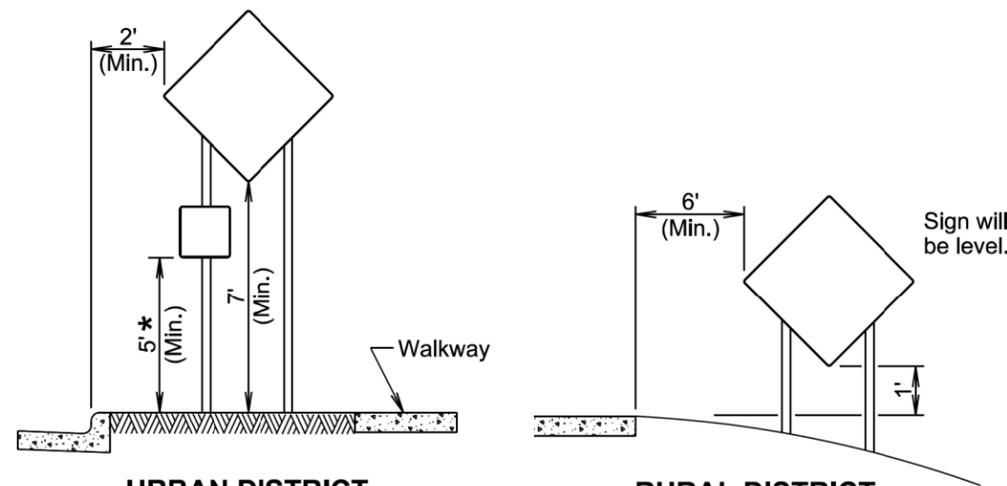
Sheet 1 of 1

Published Date: 2026



RURAL DISTRICT

RURAL DISTRICT WITH SUPPLEMENTAL PLATE



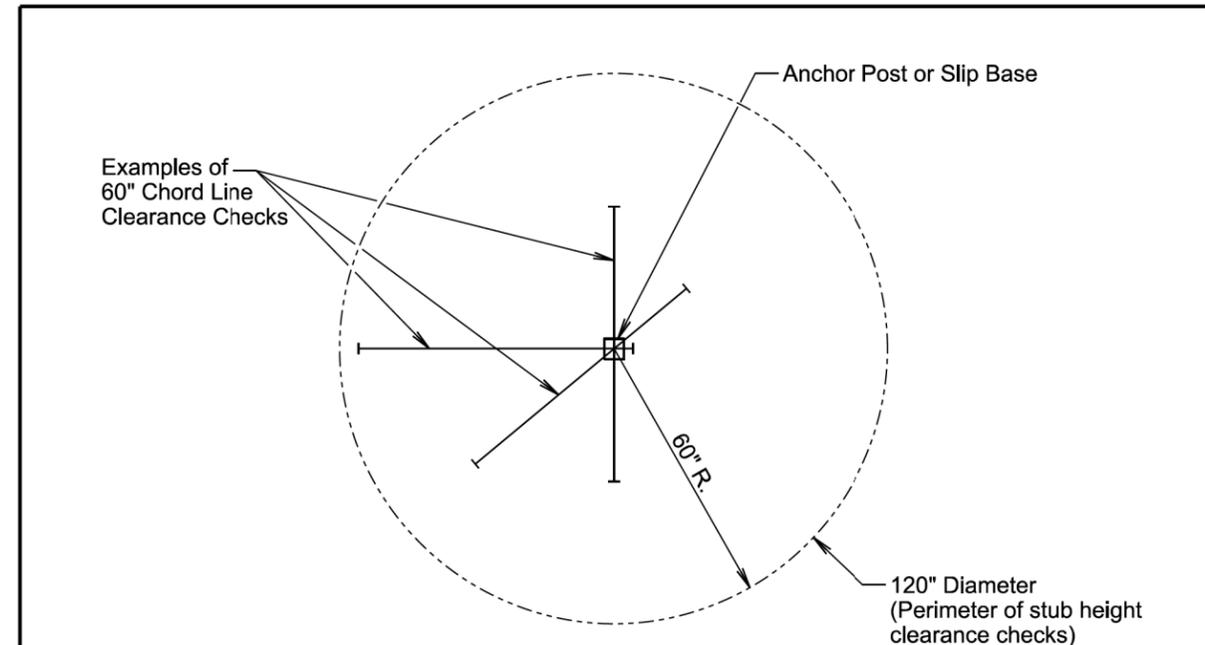
URBAN DISTRICT

RURAL DISTRICT 3 DAY MAXIMUM
(Not applicable to regulatory signs)

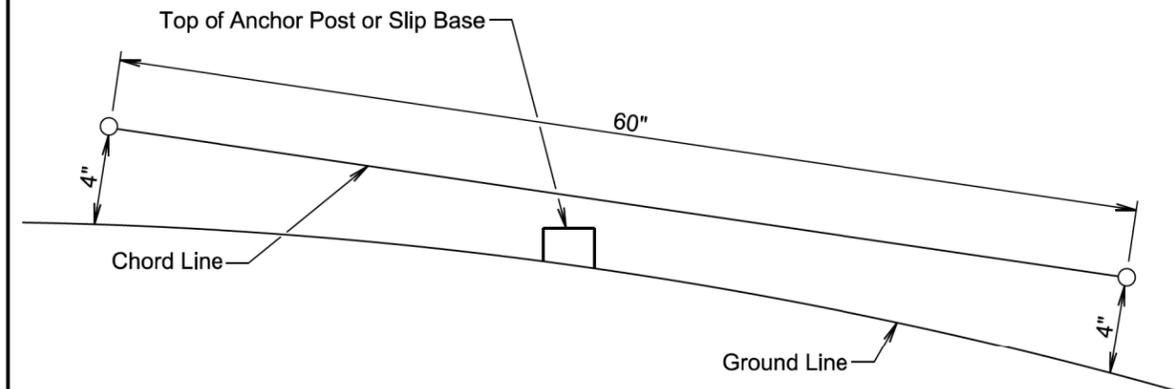
* If the bottom of supplemental plate is mounted lower than 7 feet above a pedestrian walkway, the supplemental plate should not project more than 4" into the pedestrian facility.

January 22, 2021

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



PLAN VIEW
(Examples of stub height clearance checks)



ELEVATION VIEW

GENERAL NOTES:

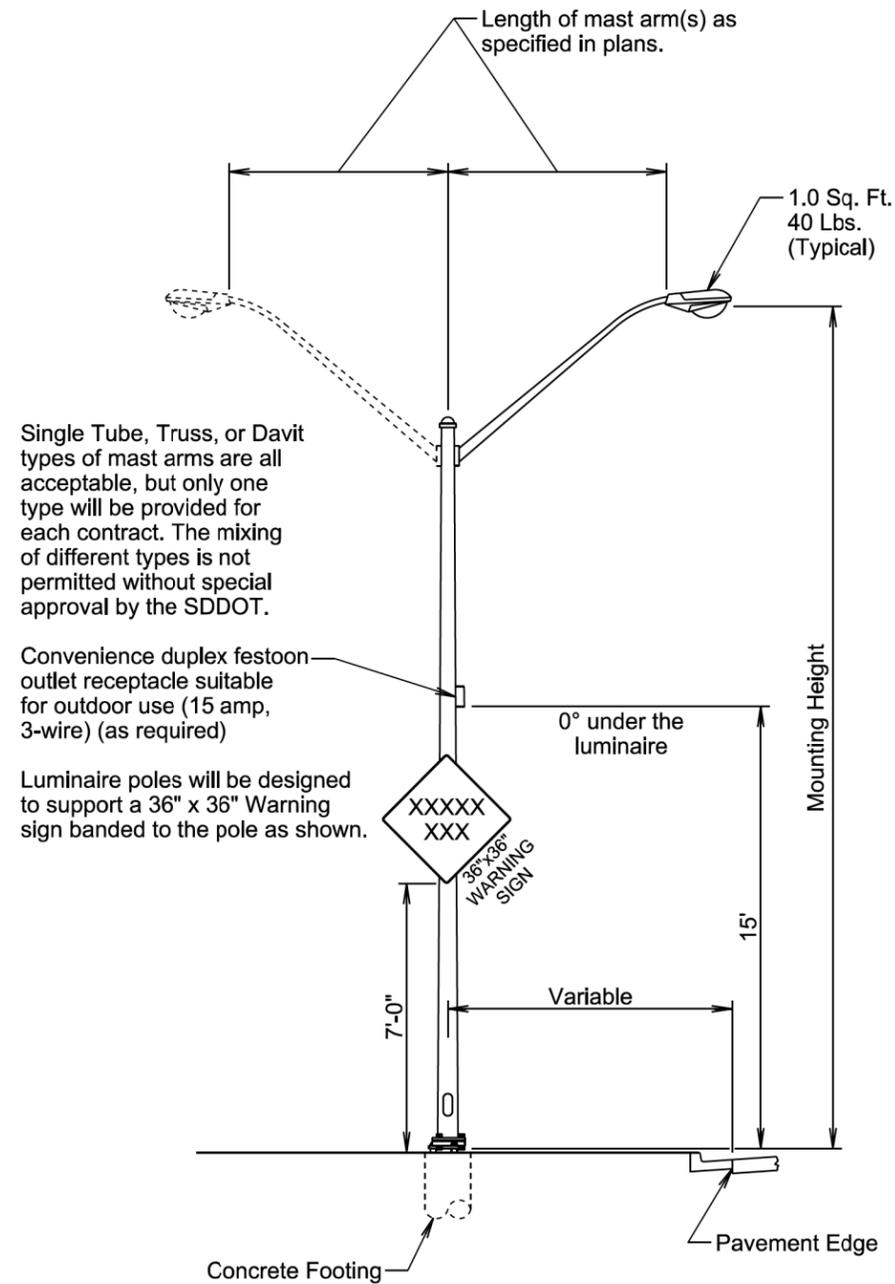
The top of anchor posts and slip bases WILL NOT extend above a 60" chord line within a 120" diameter circle around the post with ends 4" above the ground.

At locations where there is curb and gutter adjacent to the breakaway sign support, the stub height will be a maximum of 4" above the ground line at the localized area adjacent to the breakaway support stub.

The 4" stub height clearance is not necessary for U-channel lap splices where the support is designed to yield (bend) at the base.

January 22, 2021

Published Date: 2026	S D D O T	BREAKAWAY SUPPORT STUB CLEARANCE	PLATE NUMBER 634.99
			Sheet 1 of 1



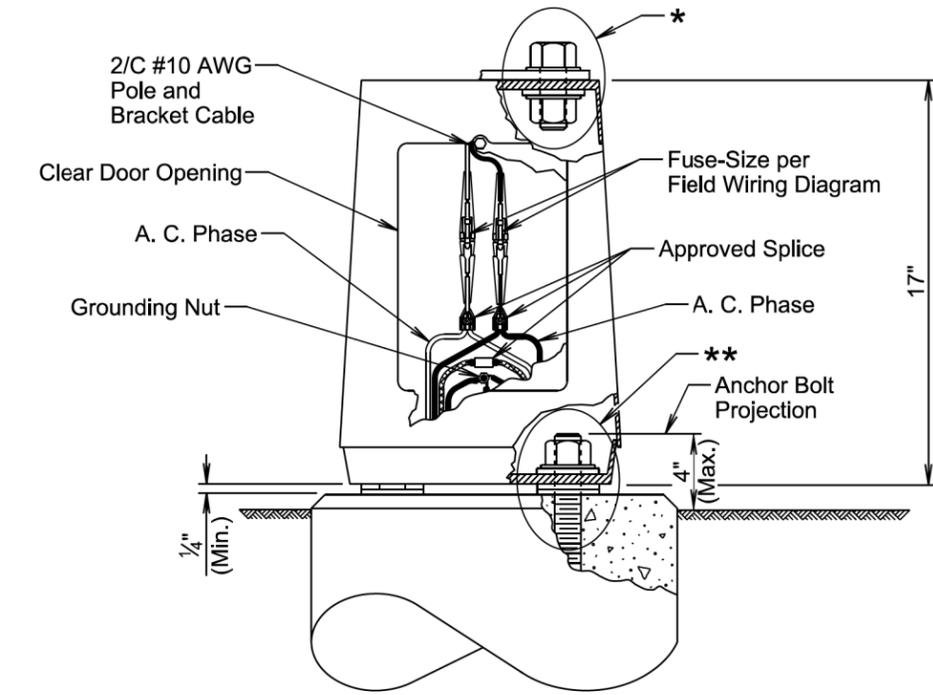
Single Tube, Truss, or Davit types of mast arms are all acceptable, but only one type will be provided for each contract. The mixing of different types is not permitted without special approval by the SDDOT.

Convenience duplex festoon outlet receptacle suitable for outdoor use (15 amp, 3-wire) (as required)

Luminaire poles will be designed to support a 36" x 36" Warning sign banded to the pole as shown.

November 19, 2022

S D D O T	STEEL ROADWAY LUMINAIRE POLE WITH MAST ARM(S)	PLATE NUMBER 635.01
		Sheet 1 of 1
Published Date: 2026		



GENERAL NOTES:

Base details are provided for example only and are not intended to be a complete design.

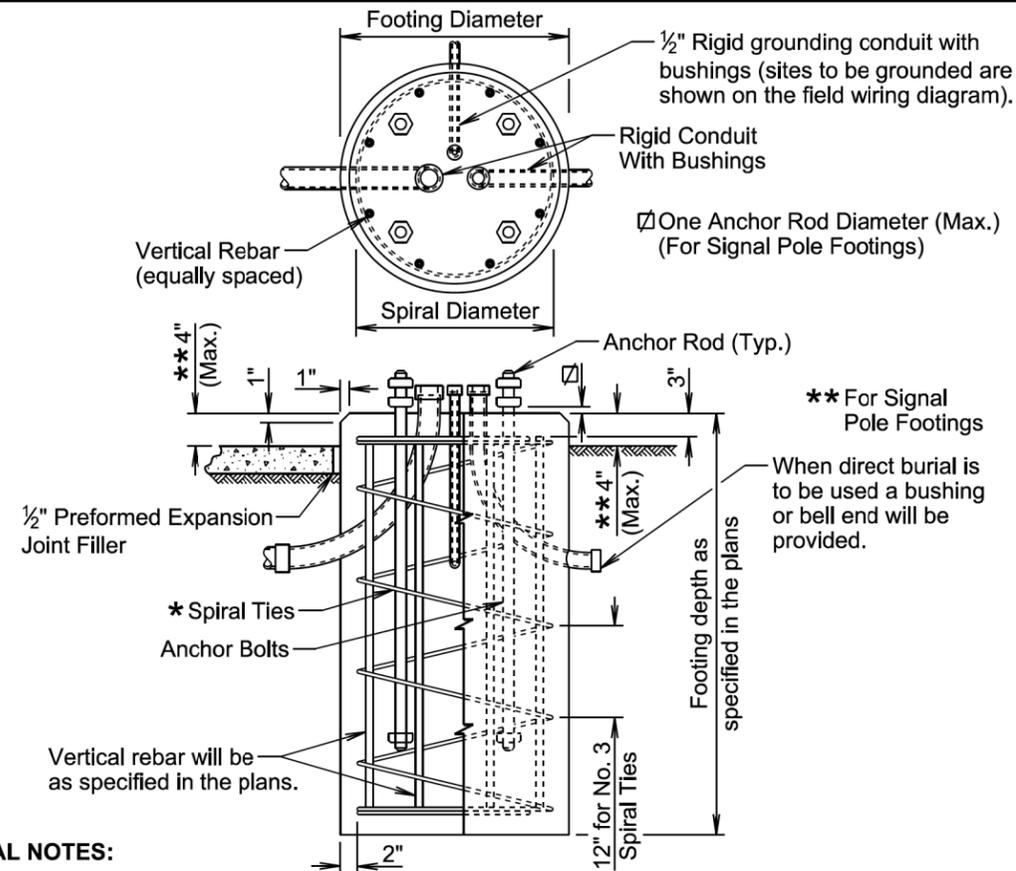
Fused connectors will be breakaway type.

* Hardware connecting the pole to the base will be installed in accordance with the manufacturer's recommendation.

** Hardware connecting the base to the footing will be installed in accordance with the manufacturer's recommendation. The Contractor will install leveling devices in accordance with the manufacturer's recommendation if shimming is necessary to install the light poles plumb and level. The washers and shims will be installed around the anchor bolts.

November 19, 2022

S D D O T	ROADWAY LUMINAIRE POLE BREAKAWAY TRANSFORMER BASE	PLATE NUMBER 635.21
		Sheet 1 of 1
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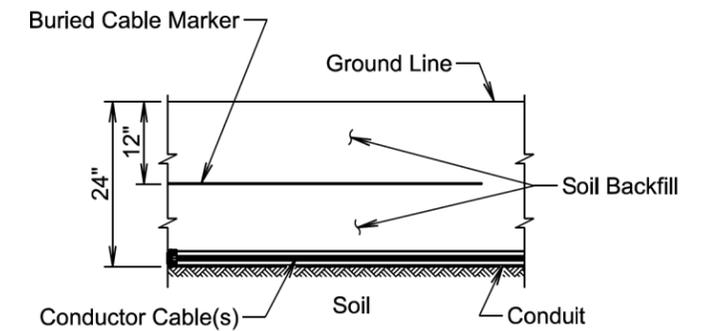


GENERAL NOTES:

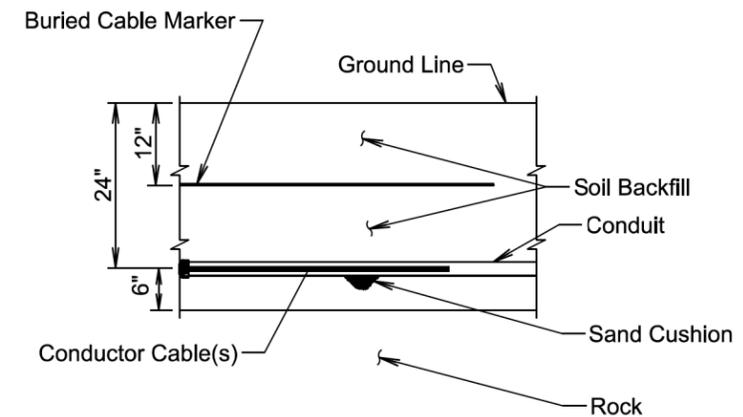
- * Circular ties may be used in lieu of the spiral ties. The No. 3 ties will be spaced 12 inches apart except for the top two which will be spaced 6 inches apart. The ties will be lapped 18 inches and the laps will be staggered around the cage.
- Spiral ties will have 1-1/2 extra turns at each end.
- See Section 985 of the Specifications for footing materials.
- Conduits and bushings may project 2 1/2 inches to 6 inches above footing for fixed base poles but will not project above the slip plane or fracture plane for breakaway poles.
- Conduits will be sealed water-tight during all phases of construction until poles are in place.
- The anchor rods will fit inside the reinforcing steel cage. If the anchor rods designed by the Pole Manufacturer do not fit, contact the Office of Bridge Design for footing redesign. No additional payment will be made for the redesigned footing.
- Costs of conduit and conduit bushings shown on footing detail will be incidental to the footing bid item(s).
- The pole will not be installed until the concrete has attained design strength (4000 psi).
- The contour of the area surrounding the breakaway pole will be flat, though not necessarily level for a distance of 5 feet in all directions. The Contractor may be required to provide finish grading at some breakaway pole locations.

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SECTION VIEW



SECTION VIEW

GENERAL NOTE:

The Buried Cable Marker will be plastic, approximately 6" wide, and will be capable of sustaining a minimum of a 350% tolerance of elongation without tearing. The Buried Cable Marker will have a life expectancy approximately equal to that of the conductor(s) beneath it. A phrase indicating the presence of a buried electric circuit below will be printed in a contrasting color on the cable marker. The Buried Cable Marker will be subject to approval by the Engineer. All costs associated with furnishing and installing the Buried Cable Marker will be incidental to the contract unit price per foot for the bid item used for the electrical conductor.

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S D D O T	CONDUIT INSTALLATION	PLATE NUMBER 635.76
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