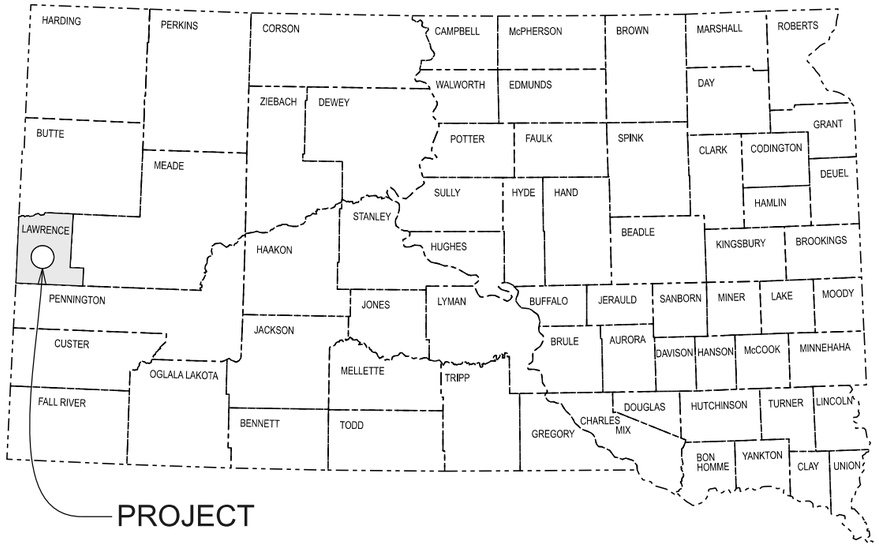
STATE OF SOUTH DAKOTA	PROJECT	SECTION	SHEET
	P 014A(38020	Non	1/22

Plotting Date: 08/21/2026



STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED

PROJECT P 014A(38)20
US HIGHWAY 14A
LAWRENCE COUNTY

ROCKFALL MITIGATION

0AD2

INDEX OF SHEETS

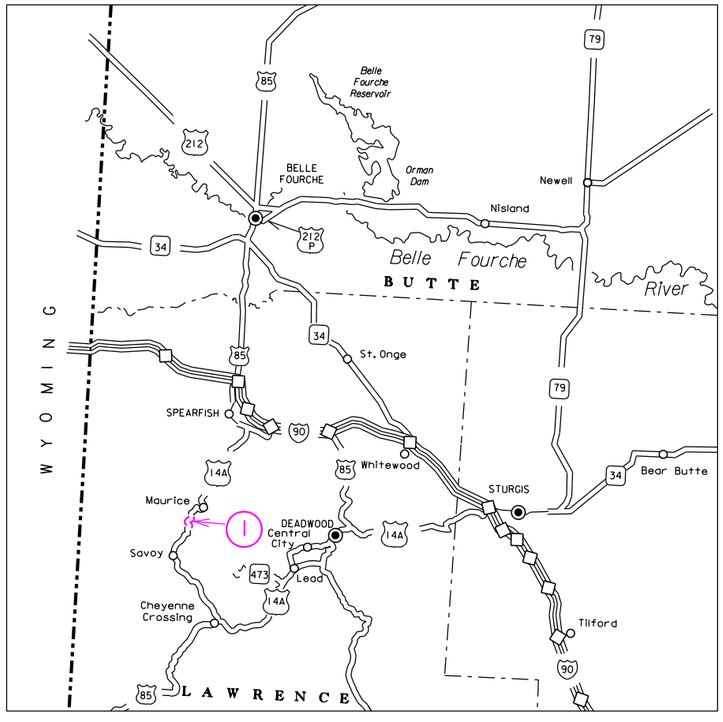
1	General Layout with Index
2-6	Estimate, Notes & Tables
7	Legend
8-9	Plan Sheets
10	Typical Section
11-12	Special Details
13-15	Standard Plates
16-22	Cross Section Sheets



(1) US14A, MRM 20+ 0.164

DESIGN DESIGNATION

ADT (2024)	2212
ADT (2044)	3205
DHV	525
D	51%
T DHV	1.7%
T ADT	3.8%
V	35 MPH



STORM WATER PERMIT

No Permit Required

Gross Length	0.01 Miles
Length of Exceptions	0.000 Miles
Net Length	0.01 Miles

6

November 18, 2026

Revised 8/27/2026 GDS

ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E4100	Construction Schedule, Category I	Lump Sum	LS
100E0100	Clearing	Lump Sum	LS
120E1100	Unclassified/Rock Excavation	1,774	CuYd
634E0010	Flagging	500.0	Hour
634E0110	Traffic Control Signs	147.4	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E1215	Contractor Furnished Portable Changeable Message Sign	2	Each
734E0154	12" Diameter Erosion Control Wattle	780	Ft
910E0510	Rock Scaling and Rigging	360	Hour

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 C: WATER SOURCE

If a Contractor needs access to state waters for extraction, the Contractor must obtain a water right, through the application of a Temporary Permit to Use Public Waters before work begins.

The Contractor will not withdraw water with equipment previously used outside the State of South Dakota or previously used in aquatic invasive species (AIS) positive waters within South Dakota without prior approval from the SDDOT Environmental Office. To prevent and control the introduction and spread of invasive species into the project vicinity, all equipment will be power washed with hot water (≥140 °F) and completely dried for a minimum of 7 days prior to subsequent use. South Dakota administrative rule 41:10:04:02 forbids the possession and transport of AIS; therefore, all attached dirt, mud, debris and vegetation must be removed and all compartments and tanks capable of holding standing water must be drained. This includes, but is not limited to, all equipment, pumps, lines, hoses and holding tanks.

Action Taken/Required:

The Contractor will obtain the necessary permits from the regulatory agencies such as the South Dakota Department of Agriculture and Natural Resources (SDDANR) and the United States Army Corps of Engineers (USACE) prior to water extraction activities.

Temporary permit to use public waters for highway construction purposes application can be found on the SDDANR website: https://danr.sd.gov/OfficeOfWater/WaterRights/PermitForms/default.aspx

Additional information and mapping of water sources impacted by Aquatic Invasive Species in South Dakota can be accessed at:
< https://sdleastwanted.sd.gov/maps/default.aspx >

South Dakota Administrative Rule 41:10:04 Aquatic Invasive Species:
< https://sdlegislature.gov/rules/DisplayRule.aspx?Rule=41:10:04 >

COMMITMENT D: WATER QUALITY STANDARDS

COMMITMENT D1: SURFACE WATER QUALITY

Spearfish Creek is classified as a coldwater permanent fishery with a total suspended solids standard of less than 30 mg/L 30-day average, less than 53 mg/L daily maximum.

This project may be in the vicinity of multiple streams and wetlands. These waters are considered waters of the state and are protected under Administrative Rules of South Dakota (ARSD) Chapter 74:51. Special construction measures may have to be taken to ensure that this water body is not impacted.

Action Taken/Required:

The Contractor is advised that the South Dakota Surface Water Quality Standards, administered by the South Dakota Department of Agriculture and Natural Resources (DANR), apply to this project. Special construction measures will be taken to ensure the above standard(s) of the surface waters are maintained and protected.

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: HISTORIC PRESERVATION OFFICE CLEARANCES

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

Action Taken/Required:

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

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

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

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

In the event of an inadvertent discovery of human remains, funerary objects, or if evidence of cultural resources is identified during project construction activities, then such activities within 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.

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

COMMITMENT S: FIRE PREVENTION IN THE BLACK HILLS AREA

This project is located within the Black Hills Forest Fire Protection Boundary.

Action Taken/Required:

The Contractor will adhere to the “Special Provision for Fire Plan”.

COOPERATION WITH UNITED STATES FOREST SERVICE

Approval has been obtained for removal of hazard trees and rocks outside the highway ROW. As per the Memorandum of Understanding, the Project Engineer will contact the USFS District Ranger prior to removal of rocks and trees on the project.

Valerie Jagim
Realty Specialist
Forest Service
Black Hills National Fores
p: 605-642-4622
valerie.jagim@usda.gov
2014 N Main St
Spearfish, SD 57783

WORK DESCRIPTION

The work consists of removing loose rock and debris in areas shown on the plans or as directed by the Engineer. Scaling work will be completed prior to beginning installation of erosion control measures.

UTILITIES

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

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 Engineer to determine modifications that will be necessary to avoid utility impacts.

CLEARING

Removal of trees and downed timber to mitigate the rockslide hazards will be paid for at the unit price per Lump Sum for Clearing

ROCK SCALING

Scaling will be required to remove loose rock and downed timber from the slope above the ditch excavation area from Station 2+00± to Station 3+00±, Rt. Loose rocks which are not embedded in the slope, or which may be destabilized by runoff and erosion will be removed.

CONSTRUCTION REQUIREMENTS:

A. The site will be cleared of boulders and debris prior to beginning installation of erosion control measures. Scaling activities will begin at the top of the slope and proceed downward.

B. Manually scale the slopes using a suitable standard steel mine-scaling rod. Other methods such as machine scaling, hydraulic splitting, or use of expansive materials may be used in lieu of or supplemental to hand scaling as approved by the Engineer. Blasting is not allowed.

C. Manual scaling will be completed by a trained and certified scaling crew. A scaling crew consists of a working foreman and two scalers clipped onto ropes and working on the slope. Manual scaling will not be allowed when the foreman is absent or with less than 2 scalers. Two weeks prior to beginning scaling operations, the Contractor will provide:

1. Documentation confirming that the foreman is certified as a Level 2 or higher Technician by the Society of Professional Rope Access Technicians (SPRAT) or Level 2 or higher Slope Access Technician by the Professional Climbing Instructors Association (PCIA) or provide documentation that they have acquired the equivalent knowledge, skills, and abilities required for Level 2 certification by SPRAT or the PCIA; and,

2. Documentation confirming that the rock slope scalers are certified as Level 1 or higher Technicians by SPRAT or Level 1 or higher Slope Access Technicians by the PCIA or provide documentation that have acquired the equivalent knowledge, skills, and abilities required for Level 1 certification by SPRAT or the PCIA.

The Contractor will not begin work until submittals have been reviewed and accepted by the Engineer.

D. The Contractor will be responsible for protecting the roadway and all appurtenances from any damage resulting from Contractor activities. The Contractor will be responsible for repairing any damage resulting from scaling or other construction activities as determined by the Engineer.

E. Removal of scaled material from the roadway will be required such that traffic can safely pass through the work zone.

METHOD OF MEASUREMENT:

Measurement for Rock Scaling and Rigging will be by the Hour.

Rock scaling will be measured by the total number of man-hours spent on this bid item that are not incidental to any other bid item. Paid hours will be the amount of time spent in the removal of material from the slope as shown in the plans or as directed by the Engineer, setting required safety anchors, setting up equipment related to mechanical scaling (including air compressors), and time spent on the slope and roadway for the clearing of traffic. The time to ascend to and descend from the access point for the work area to be scaled will not be measured and paid separately, but will be considered incidental to the work, unless approved by the Engineer.

BASIS OF PAYMENT:

Payment will be made under the pay item listed below:

Pay Item	Pay Unit
Rock Scaling and Rigging	Hour

Payment for Rock Scaling and Rigging will be by the Hour measured to the nearest 0.5 hr.

All tools and equipment required to complete scaling work, including air compressors, air canisters, and other equipment required to complete scaling activities will be incidental to the contract unit price per hour for Rock Scaling and Rigging.

The estimate of hours is based on 2 rock scalers x 180 hours for a total of 360 hours. Hours will be determined by the number of rock scalers on the slope.

GENERAL GEOLOGY

Materials at this location consist of talus, colluvium, and fractured in-place rock of the Englewood and Pahasapa Limestones which form the canyon walls within the project area. Each is described by the South Dakota Geological Survey as:

The Englewood Limestone consists of pink to lavender to light-gray, thin to medium bedded, fine to medium grained, argillaceous, dolomitic limestone. Fractured in place Englewood Limestone will be encountered within the backslope from Station 17+00± to Station 19+00±, Rt.

The Pahasapa Limestone consists of white, light gray to tan, fine to medium grained limestone and dolomite containing brown to gray chert. Very large boulders of Pahasapa Limestone will be encountered within the ditch excavation from Station 1+00± to Station 4+00±, Rt.

CLASSIFICATION OF EXCAVATION

Unclassified/Rock Excavation will be required to remove talus and unstable rock at areas delineated in the plans and as directed by the Engineer during construction. Splitting and breaking down oversized boulders of limestone may be required. Excavation of fractured in-place dolomite and limestone will be required to remove a rock ledge at Station 18+00±, Rt. Extra effort beyond normal unclassified excavation and manual scaling will be required to excavate areas classified as Unclassified/Rock Excavation. Blasting will not be allowed. It is anticipated that mechanical means such as pneumatic hammers, hydraulic splitting, drilling, expansive materials, or other methods approved by the Engineer will be utilized to complete excavation and scaling activities. Excavated materials will be wasted off site.

All costs associated with the excavation and subsequent disposal of materials generated from designated Unclassified/Rock Excavation areas will be paid for at the contract unit price for Unclassified/Rock Excavation. Plans quantity will be the basis of payment, and no separate field measurement will be made.

EROSION CONTROL WATTLE

Erosion control wattles for restraining the flow of runoff and sediment will be installed at locations noted in the table and at locations determined by the Engineer during construction. Refer to Standard Plate 734.06 for details.

The Contractor will provide certification that the erosion control wattles do not contain noxious weed seeds.

Erosion control wattles will remain on the project to decompose.

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

https://apps.sd.gov/HC60ApprovedProducts/main.aspx

Revised 8/27/2026 GDS

Table of Material Quantites

	Clearing	Rock Scaling and Rigging	12" Diameter Erosion Control Wattle
	(Lump Sum)	(Hour)	(Ft)
Sta1+50 to Sta 3+00 - R	LS	240	720
Sta 17+00 to Sta19+00 - R	LS	120	60
Total	LS	360	780

Table of Rock Excavation

Station	to	Station	R/L	Offset	L	W	D	Unclassified /Rock Excavation
				Ft	Ft	Ft	Ft	(CuYd)
1+50		3+00	R					630
1+75		2+50	L					110
		1+94	R	214	9	9	13	39
		1+95	R	15	7	7	11	20
		2+11	R	166	12	12	14	75
		2+44	R	79	17	17	22	235
		2+83	R	106	9	9	15	45
		17+10	R	43	11	11	11.1	50
		17+35	R	46	11	11	11.1	50
		17+49	R	54				285
		17+86	R	49	6.5	6.5	6.5	10
		18+25	R	87				225
							Total	1774

SEQUENCE OF OPERATIONS

The work consists of rock scaling from Sta. 2+00 to Sta. 4+00 and rock scaling from Sta. 17+00 to Sta. 18+50. The Contractor will close the southbound lane from Sta. 0+00 to Sta. 21+00 in accordance with Standard Plate 634.23. Outside of working hours, the route will be returned to two-way traffic.

The Contractor may use the parking areas approximately one quarter mile north and one half mile south of the project area to stage equipment overnight. If the Contractor utilizes these areas for staging, the areas will be lined with cones.

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 completion of the work.

FLAGGING

Operations will be conducted so that the traveling public will not have to wait longer than 15 minutes at the flagger station. Flaggers will be required to communicate with each other via radio.

CONTRACTOR FURNISHED PORTABLE CHANGEABLE MESSAGE SIGN

One week prior to starting work affecting the traveling public, portable changeable message signs (PCMS) will be installed at locations detailed in the plans to notify drivers of the upcoming construction. The Contractor will program the portable changeable message signs with the following message:

ROAD WORK
STARTS (Date)

When work begins that will affect traffic patterns, the Contractor will re-program the PCMS with the messages as detailed in the plans.

INCIDENTS

An incident is an emergency road user occurrence, a natural disaster, or other unplanned event that affects or impedes the normal flow of traffic such as a crash, hazardous materials spill, or other event.

The Contractor will set up a meeting prior to start of work to plan and coordinate responses to an incident. The Contractor will invite the Department of Transportation, the South Dakota Highway Patrol, the Lawrence County Sheriff and local emergency response entities to the meeting.

The Contractor will assist to maintain traffic as required by these plan notes and as agreed to at that meeting.

Emergency vehicle access through the project will be considered and discussed at the meeting.

The Contractor may be required to modify messages on portable changeable message signs or relocate portable changeable message signs, and to provide flaggers to direct or detour traffic. The Contractor should be prepared to relocate advance warning signs if determined to be necessary for a major traffic incident lasting more than two hours. Fixed location ground mounted signs may be covered and additional portable signs provided.

No additional payment will be made for the modification of portable changeable message sign messages or the relocation of portable changeable message signs. Cost for the relocation of an advance warning sign due to an incident will be 50% of the designated sign rate. Flaggers will be paid for at the contract unit price per hour for Flagging.

PRESS RELEASE ANNOUNCEMENTS

The SDDOT will prepare a press release to be released 5 days prior to any phase change or any other major change that affects traffic flow. The SDDOT will be responsible to keep law enforcement, emergency services, and the traveling public notified of changes in project access. The Contractor will provide the Engineer with pertinent information 7 days prior to any phase change or any other major change that affects traffic flow.

TRAFFIC CONTROL SIGNS

ITEMIZED LIST FOR TRAFFIC CONTROL SIGNS

		CONVENTIONAL ROAD			
SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
R1-1	STOP	2	30"	5.2	10.4
W3-1	STOP AHEAD (symbol)	2	48" x 48"	16.0	32.0
W20-1	ROAD WORK AHEAD	2	48" x 48"	16.0	32.0
W20-4	ONE LANE ROAD AHEAD	2	48" x 48"	16.0	32.0
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0	32.0
G20-2	END ROAD WORK	2	36" x 18"	4.5	9.0
		CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT			147.4

LEGEND

STATE OF SOUTH DAKOTA	PROJECT	SECTION	SHEET
	P 014A(38020	Non	7/22

Plotting Date: 08/21/2026

- Anchor
- Antenna
- Approach
- Assumed Corner
- Azimuth Marker
- BBQ Grill/ Fireplace
- Bearing Tree
- Bench Mark
- Box Culvert
- Bridge
- Brush
- Buildings
- Bulk Tank
- Cattle Guard
- Cemetery
- Centerline
- Cistern
- Clothes Line
- Control Point
- Commercial Sign Double Face
- Commercial Sign One Post
- Commercial Sign Overhead
- Commercial Sign Two Post
- Concrete Symbol
- Creek Edge
- Curb/Gutter
- Curb
- Dam Grade/Dike/Levee
- Deck Edge
- Ditch Block
- Doorway Threshold
- Drainage Profile
- Drop Inlet
- Edge Of Asphalt
- Edge Of Concrete
- Edge Of Gravel
- Edge Of Other
- Edge Of Shoulder
- Elec. Trans./Power Jct. Box
- Fence Barbwire
- Fence Chainlink
- Fence Electric
- Fence Misc.
- Fence Rock
- Fence Snow
- Fence Wood
- Fence Woven
- Fire Hydrant
- Flag Pole
- Flower Bed
- Gas Valve Or Meter
- Gas Pump Island
- Grain Bin
- Guardrail
- Guide Sign One Post
- Guide Sign Two Post
- Gutter
- Guy Pole
- Haystack
- Hedge
- Highway ROW Marker
- 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. Line
- Misc. Property Corner
- Misc. Post
- Overhang Or Encroachment
- Overhead Utility Line — OH —
- Parking Meter
- Pedestrian Push Button Pole
- Pipe With End Section
- Pipe With Headwall
- Pipe Without End Section
- Playground 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
- Regulatory Sign One Post
- Regulatory Sign Two Post
- Retaining Wall
- Riprap
- River Edge
- Rock And Wire Baskets
- Rockpiles
- Satellite Dish
- Septic Tank
- Shrub Tree
- Sidewalk
- Sign Face
- Sign Post
- Slough Or Marsh
- Spring
- Stream Gauge
- Street Marker
- Subsurface Utility Exploration Test Hole
- Telephone Fiber Optics — T/F —
- Telephone Junction Box
- Telephone Pole
- Television Cable Jct Box
- Television Tower
- Test Wells/Bore Holes
- Traffic Signal
- Trash Barrel
- Tree Belt
- Tree Coniferous
- Tree Deciduous
- Tree Stumps
- Triangulation Station
- Underground Electric Line — P —
- Underground Gas Line — G —
- Underground High Pressure Gas Line — HG —
- Underground Sanitary Sewer — S —
- Underground Storm Sewer — S —
- Underground Tank
- Underground Telephone Line — T —
- Underground Television Cable — TV —
- Underground Water Line — W —
- Warning Sign One Post
- Warning Sign Two Post
- Water Fountain
- Water Hydrant
- Water Meter
- Water Tower
- Water Valve
- Water Well
- Weir Rock
- Windmill
- Wingwall
- Witness Corner

- State and National Line
- County Line
- Section Line
- Quarter Line
- Sixteenth Line
- Sixty-Fourth Line
- Property Line
- Construction Line
- ROW Line
- New ROW Line
- Cut and Fill Limits
- Control of Access
- New Control of Access
- Proposed ROW (After Property Disposal)

- Drainage Arrow

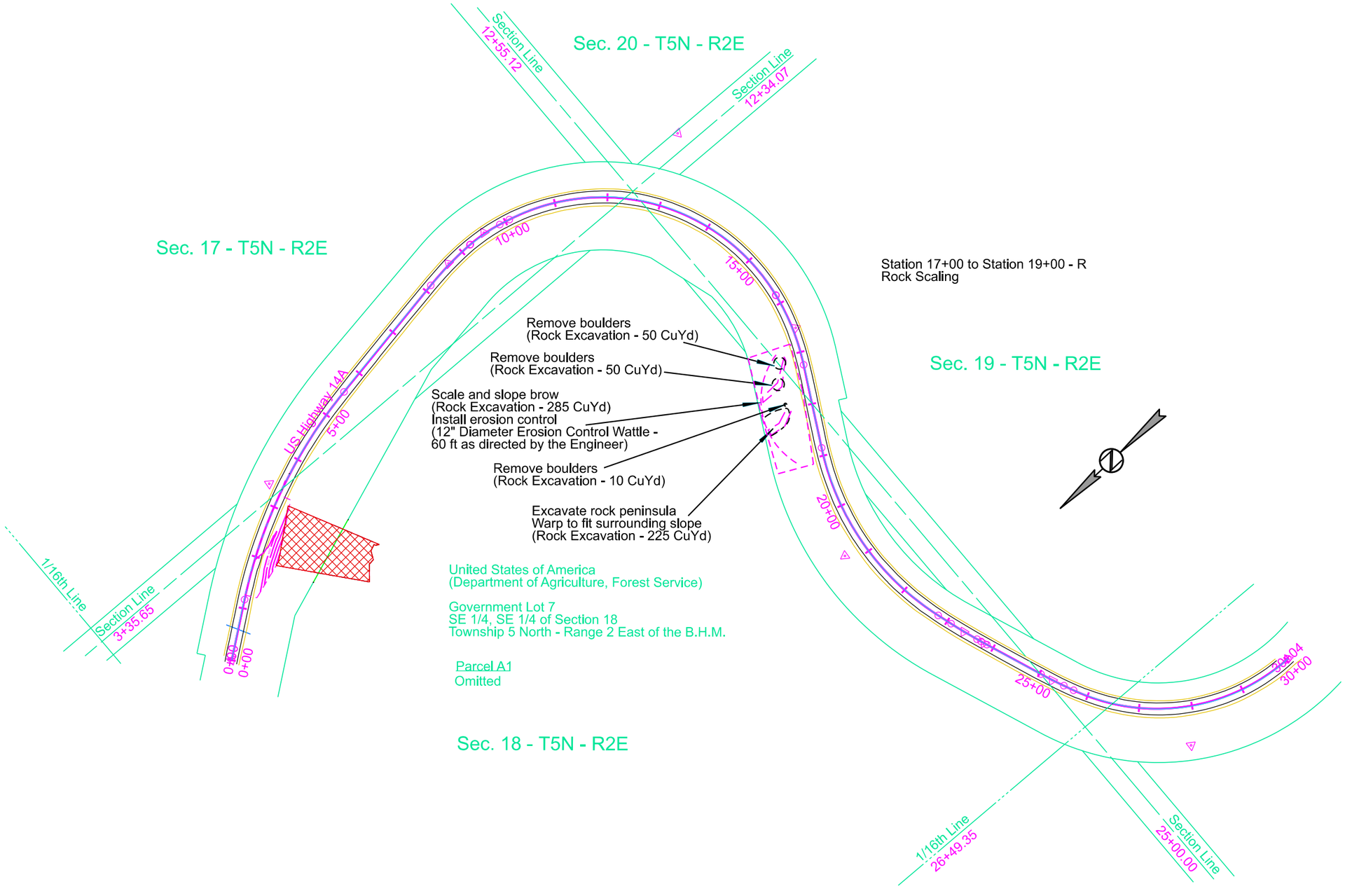
- Remove Concrete Pavement
- Remove Concrete Driveway Pavement
- Remove Asphalt Concrete Pavement
- Remove Concrete Sidewalk
- Remove Concrete Median Pavement
- Remove Concrete Curb and/or Gutter

- Detectable Warning
- Pedestrian Push Button Pole and 30" x 48" Clear Space with 1.5% slope

STATE OF SOUTH DAKOTA	PROJECT	SECTION	SHEET
	P 014A(38020	Non	8/22

Plotting Date: 08/27/2026

Revised 8/27/26 GDS



United States of America
(Department of Agriculture, Forest Service)

Government Lot 7
SE 1/4, SE 1/4 of Section 18
Township 5 North - Range 2 East of the B.H.M.

Parcel A1
Omitted

Sec. 18 - T5N - R2E

Remove loose rocks and loose downed timber in this area

STATE OF SOUTH DAKOTA	PROJECT	SECTION	SHEET
	P 014A(38020	Non	9/22

Plotting Date: 08/21/2026

Install 12" diameter erosion control wattles
2+00 to 3+00 45' R - 130'
2+00 to 3+00 65' R - 130'
2+00 to 3+00 85' R - 130'
2+00 to 3+00 105' R - 110'
2+00 to 3+00 155' R - 110'
2+00 to 3+00 220' R - 110'

Station 1+75 to 2+50 L
Remove loose rocks and shape shoulder

Station 1+50 to Station 3+00 - R
Excavate for slope stabilization

Sec. 17 - T5N - R2E

3+35.65

US Highway 14A

0+00

4620'

4625'

5+00

Place Wattles to divert drainage into trees. 5% max. slope along the toe of the wattle. Create a 1' max. depth channel with the wattle to intercept flow and direct towards the trees.

Rock Excavation - 7'x7'x11' - 20 CuYd

Rock Excavation - 17'x17'x22' - 235 CuYd

Rock Excavation - 9'x9'x15' - 45 CuYd

Section Line
Section Line

Rock Excavation - 12'x12'x14' - 75 CuYd

Rock Excavation - 9'x9'x13' - 39 CuYd

Sec. 18 - T5N - R2E

United States of America
(Department of Agriculture, Forest Service)

Government Lot 7
SE 1/4, SE 1/4 of Section 18
Township 5 North - Range 2 East of the B.H.M.

Parcel A1
Omitted

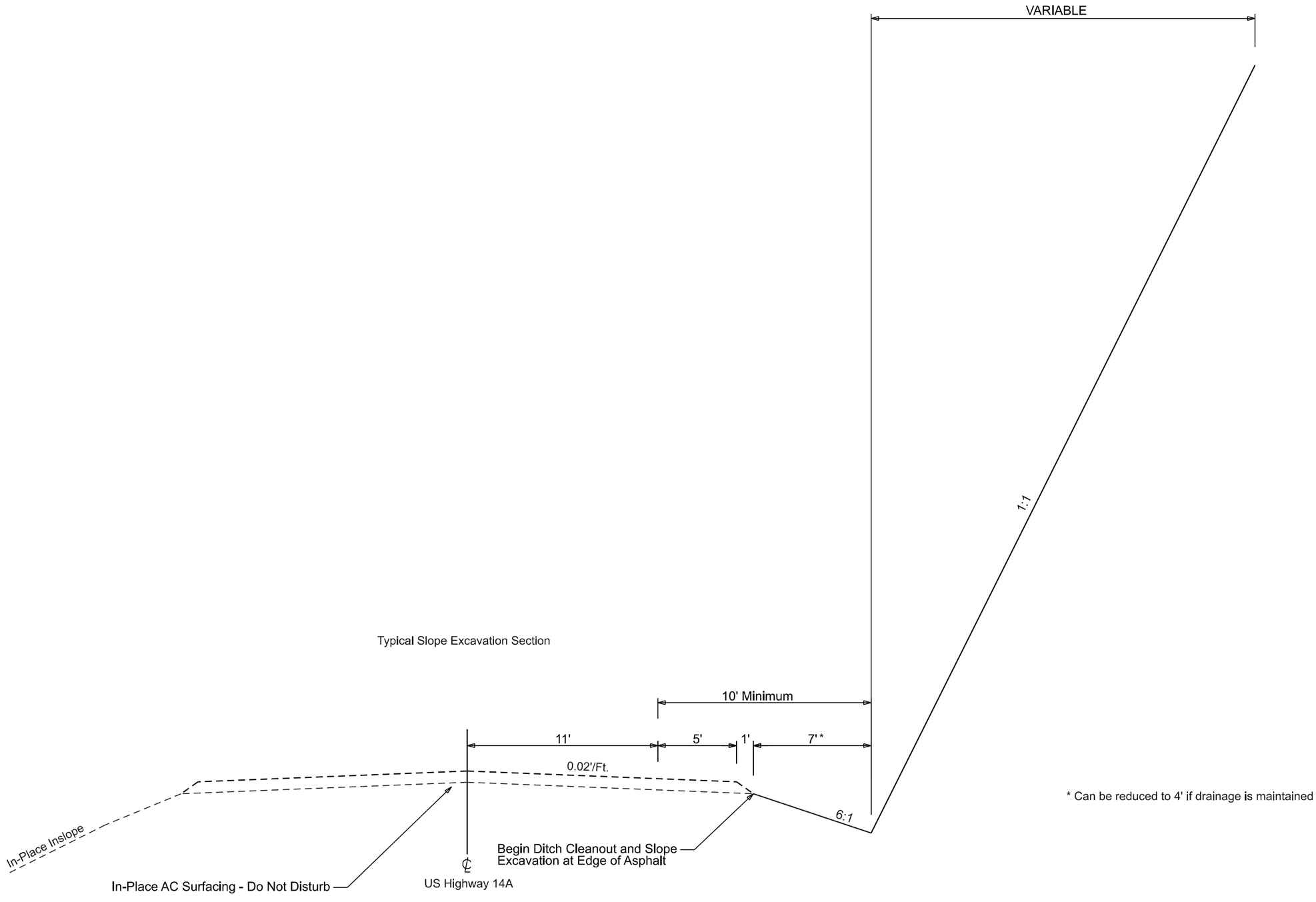
Remove loose rocks and loose downed timber in this area

12" Erosion control wattle

STATE OF SOUTH DAKOTA	PROJECT	SECTION	SHEET
	P 014A(38020	Non	10/22

Plotting Date: 08/21/2026

TYPICAL EXCAVATION SECTION



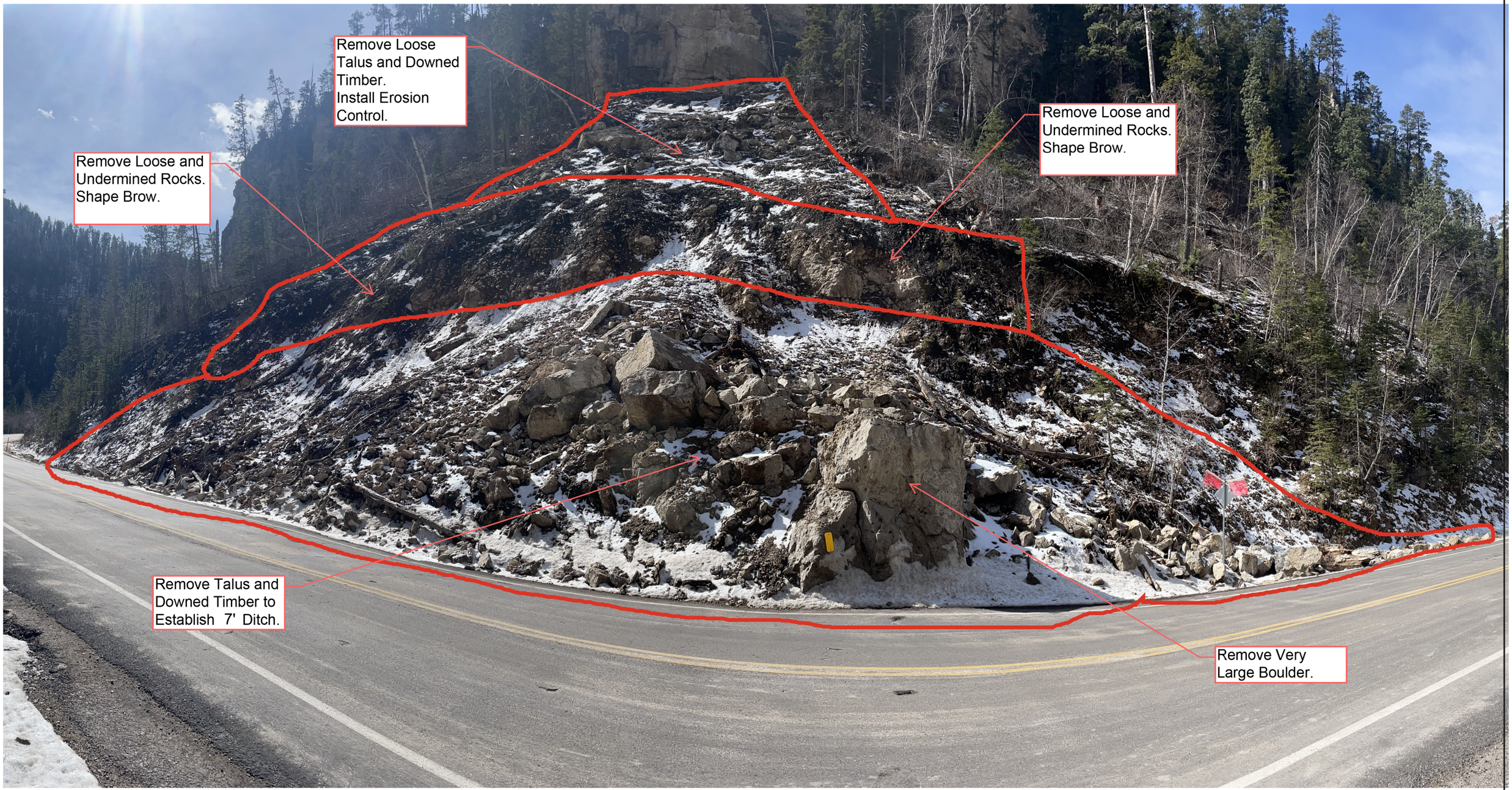
Typical Slope Excavation Section

* Can be reduced to 4' if drainage is maintained

STATE OF SOUTH DAKOTA	PROJECT	SECTION	SHEET
	P 014A(38020	Non	11/22

Plotting Date: 08/21/2026

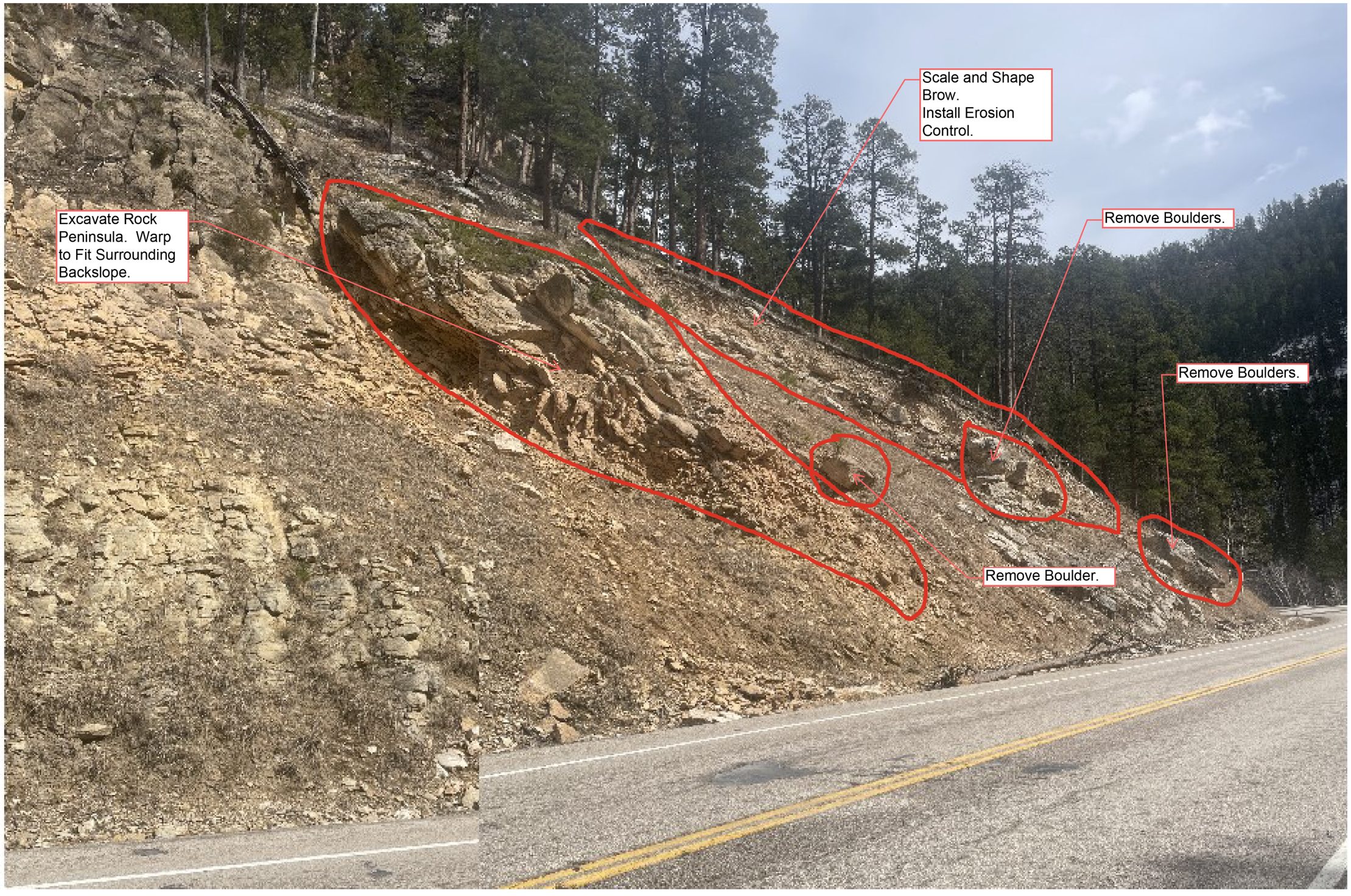
Sta1+50 to Sta 3+00 - R



Sta 17+00 to Sta19+00 - R

STATE OF SOUTH DAKOTA	PROJECT	SECTION	SHEET
	P 014A(38020	Non	12/22

Plotting Date: 08/21/2026



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

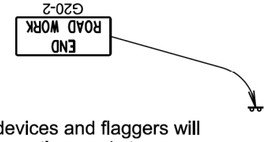
The ROAD WORK AHEAD and the END ROAD WORK signs may be omitted for short duration operations (1 hour or less).

For tack and/or flush seal operations, when flaggers are not being used, the FRESH OIL sign (W21-2) will 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 will be drums or 42" cones.

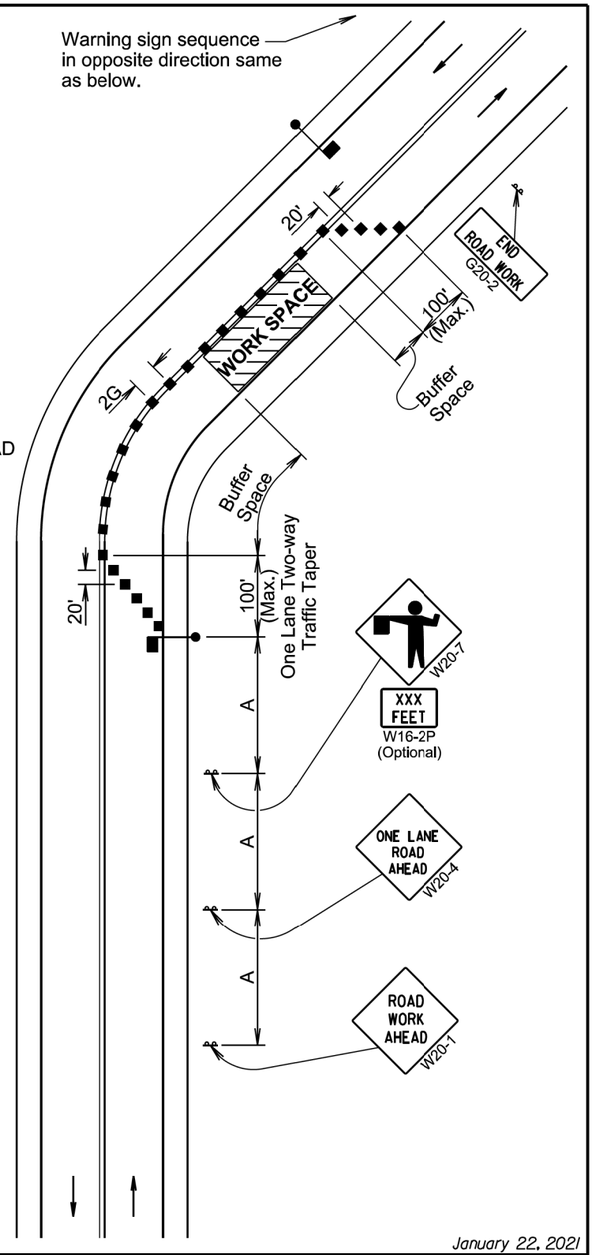
Channelizing devices are not required along the centerline adjacent to work area when pilot cars are utilized for escorting traffic through the work area.



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

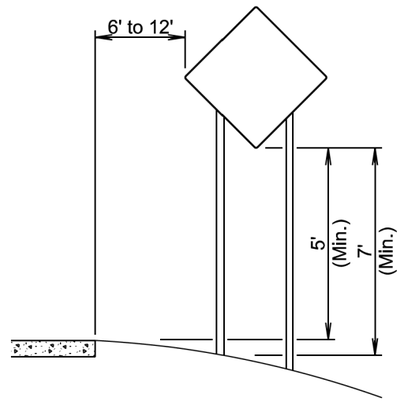
The buffer space should be extended so that the two-way traffic taper is placed before a horizontal or vertical curve to provide adequate sight distance for the flagger and queue of stopped vehicles.

The length of A may be adjusted to fit field conditions.

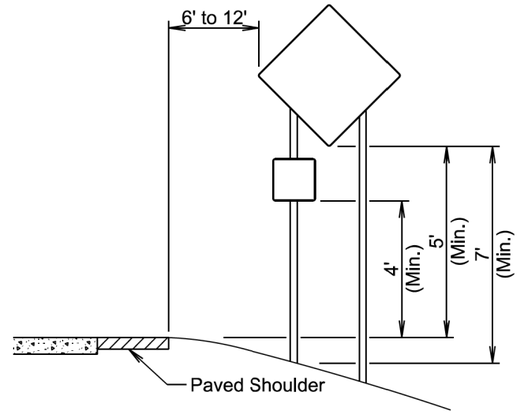


January 22, 2021

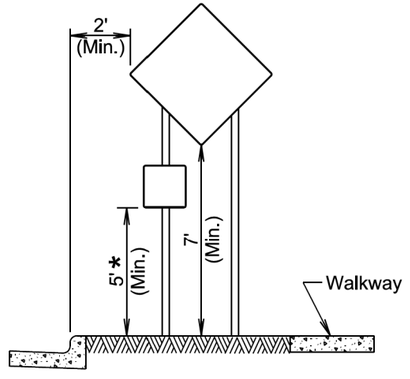
Published Date: 2027	SDDOT	LANE CLOSURE WITH FLAGGER PROVIDED	PLATE NUMBER 634.23
			Sheet 1 of 1



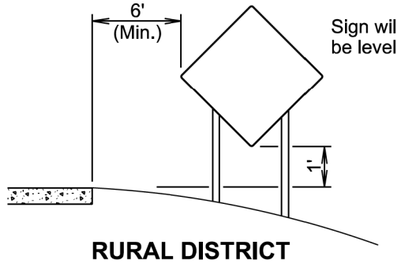
RURAL DISTRICT



RURAL DISTRICT WITH SUPPLEMENTAL PLATE



URBAN DISTRICT

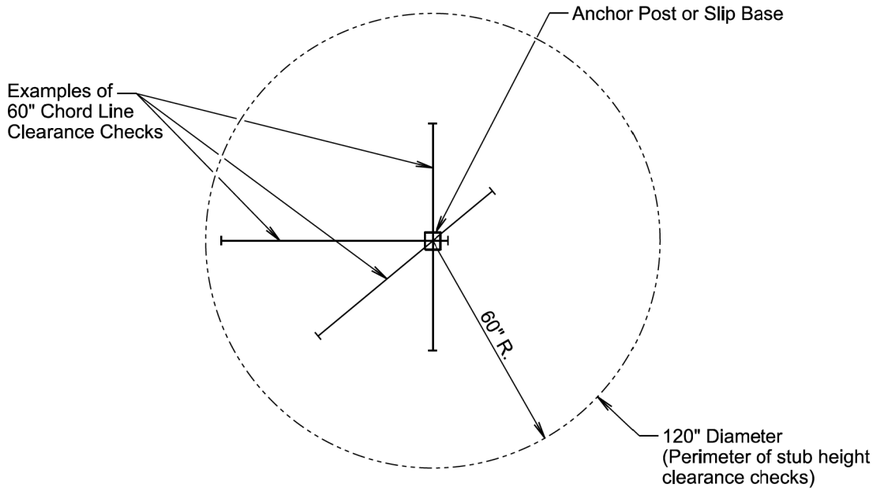


RURAL DISTRICT 3 DAY MAXIMUM
(Not applicable to regulatory signs)

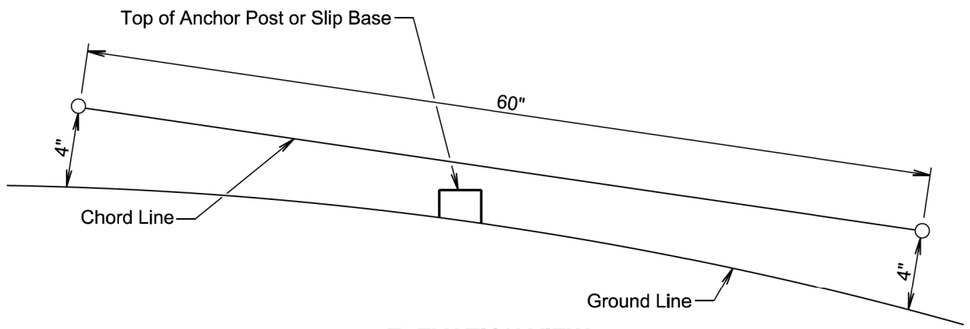
* If the bottom of supplemental plate is mounted lower than 7 feet above a pedestrian walkway, the supplemental plate should not project more than 4" into the pedestrian facility.

January 22, 2021

Published Date: 2027	SDDOT	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:

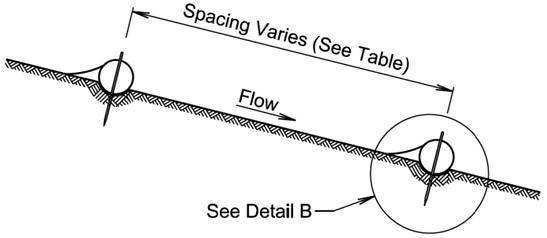
The top of anchor posts and slip bases WILL NOT extend above a 60" chord line within a 120" diameter circle around the post with ends 4" above the ground.

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.

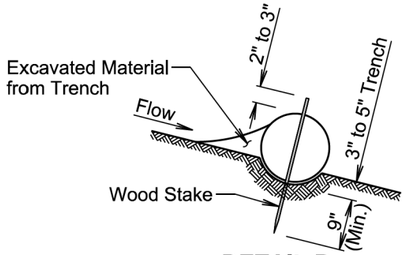
January 22, 2021

Published Date: 2027	SDDOT	***BREAKAWAY SUPPORT STUB CLEARANCE***	*PLATE NUMBER* 634.99
			Sheet 1 of 1

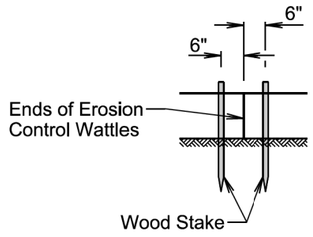


ELEVATION VIEW
(Cut or Fill Slope Installation)

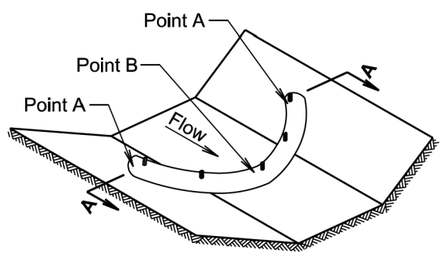
CUT OR FILL SLOPE INSTALLATION	
Slope	Spacing (Ft.)
1:1	10
2:1	20
3:1	30
4:1	40



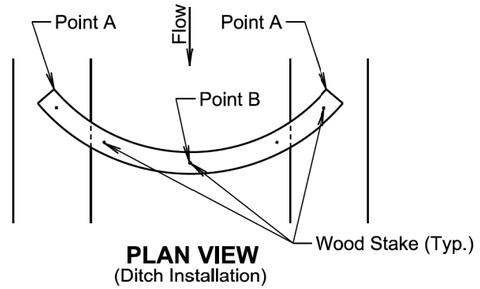
DETAIL B
(Typical of All Installations)



DETAIL C
(See General Notes)

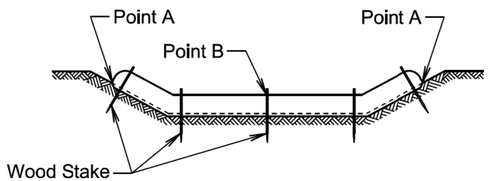


ISOMETRIC VIEW
(Ditch Installation)



PLAN VIEW
(Ditch Installation)

DITCH INSTALLATION	
Grade	Spacing (Ft.)
2%	150
3%	100
4%	75
5%	50



SECTION A-A

February 14, 2020

Published Date: 2027	SDDOT	EROSION CONTROL WATTLE	PLATE NUMBER 734.06
			Sheet 1 of 2

GENERAL NOTES:

At cut or fill slope installations, wattles will be installed along the contour and perpendicular to the water flow.

At ditch installations, point A must be higher than point B to ensure that water flows over the wattle and not around the ends.

The Contractor will dig a 3" to 5" trench, install the wattle tightly in the trench so that daylight can not be seen under the wattle, and then compact the soil excavated from the trench against the wattle on the uphill side. See Detail B.

The stakes will be 1"x2" or 2"x2" wood stakes, however, other types of stakes such as rebar may be used only if approved by the Engineer. The stakes will be placed 6" from the ends of the wattles and the spacing of the stakes along the wattles will be 3' to 4'.

Where installing running lengths of wattles, the Contractor will butt the second wattle tightly against the first and will not overlap the ends. See Detail C.

The Contractor and Engineer will inspect the erosion control wattles in accordance with the storm water permit. The Contractor will remove, dispose, or reshape the accumulated sediment when necessary as determined by the Engineer.

Sediment removal, disposal, or necessary shaping will be as directed by the Engineer. All costs for removing accumulated sediment, disposal of sediment, and necessary shaping will be incidental to the contract unit price per cubic yard for "Remove Sediment".

All costs for furnishing and installing the erosion control wattles including labor, equipment, and materials will be incidental to the contract unit price per foot for the corresponding erosion control wattle contract item.

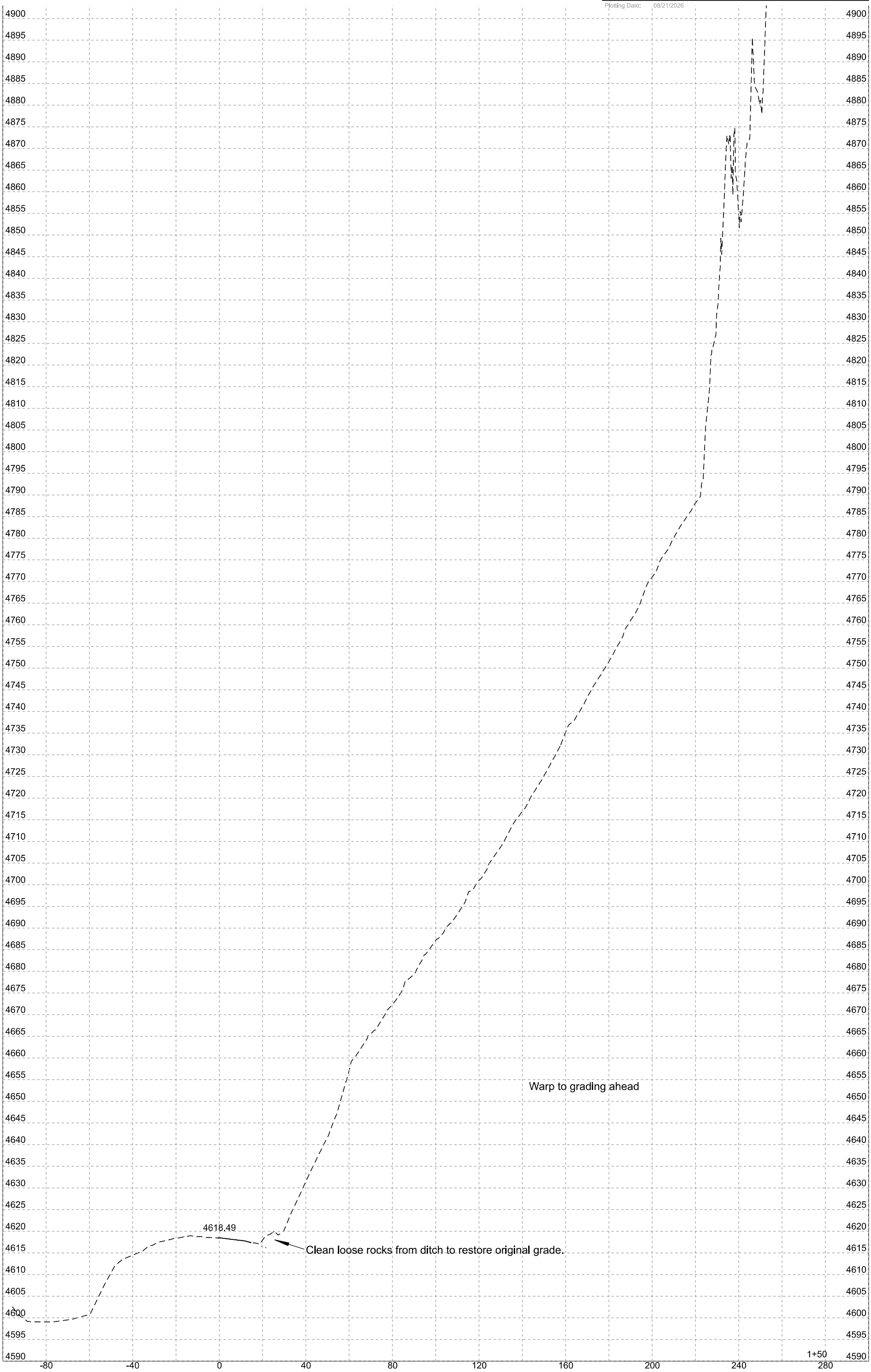
All costs for removing the erosion control wattle from the project including labor, equipment, and materials will be incidental to the contract unit price per foot for "Remove Erosion Control Wattle".

February 14, 2020

Published Date: 2027	SDDOT	EROSION CONTROL WATTLE	PLATE NUMBER 734.06
			Sheet 2 of 2

STATE OF SOUTH DAKOTA	PROJECT	SECTION	SHEET
	P 014A(38020	Non	16/22

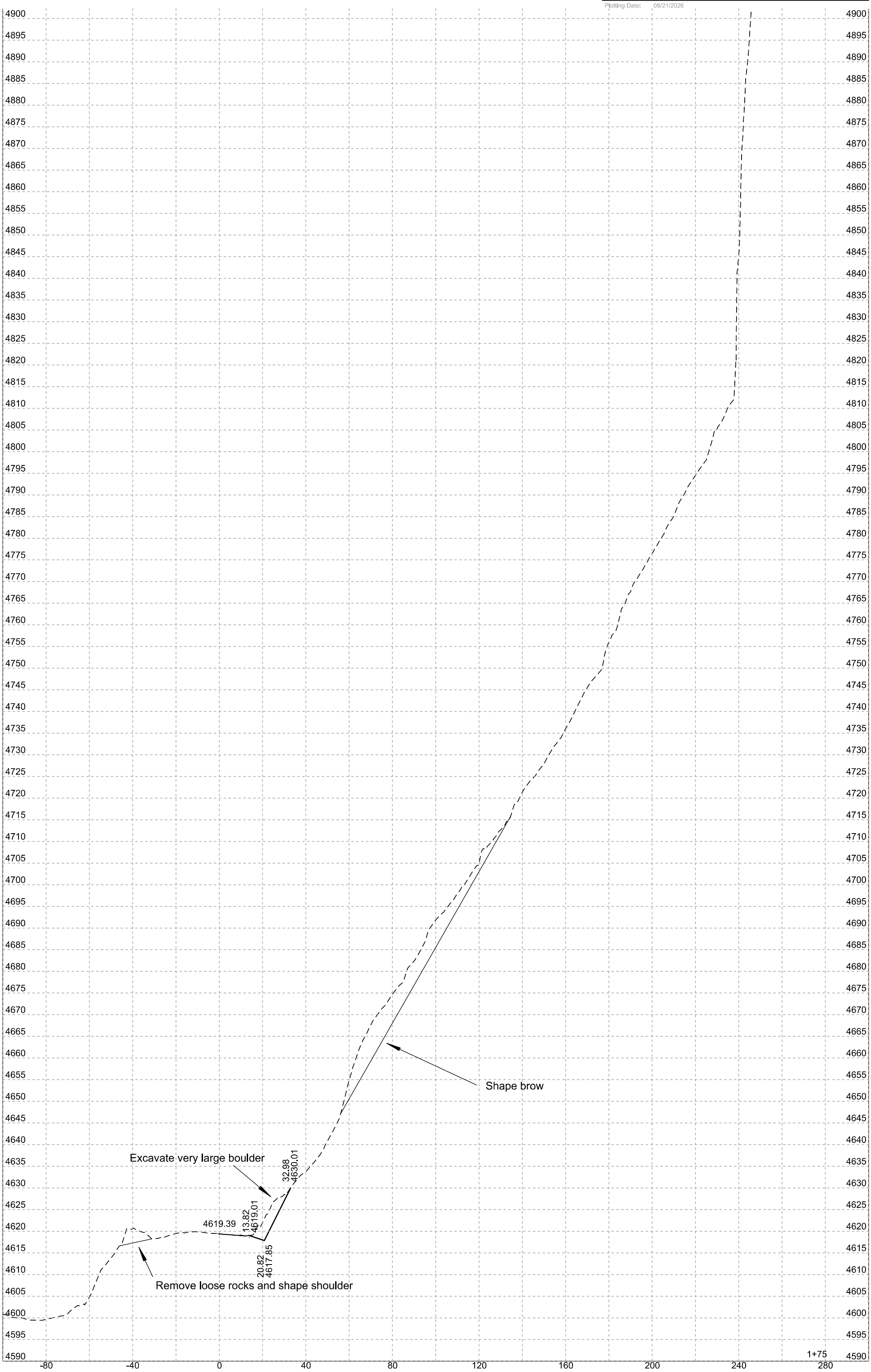
Plotting Date: 08/21/2026



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STATE OF SOUTH DAKOTA	PROJECT	SECTION	SHEET
	P 014A(38020	Non	17/22

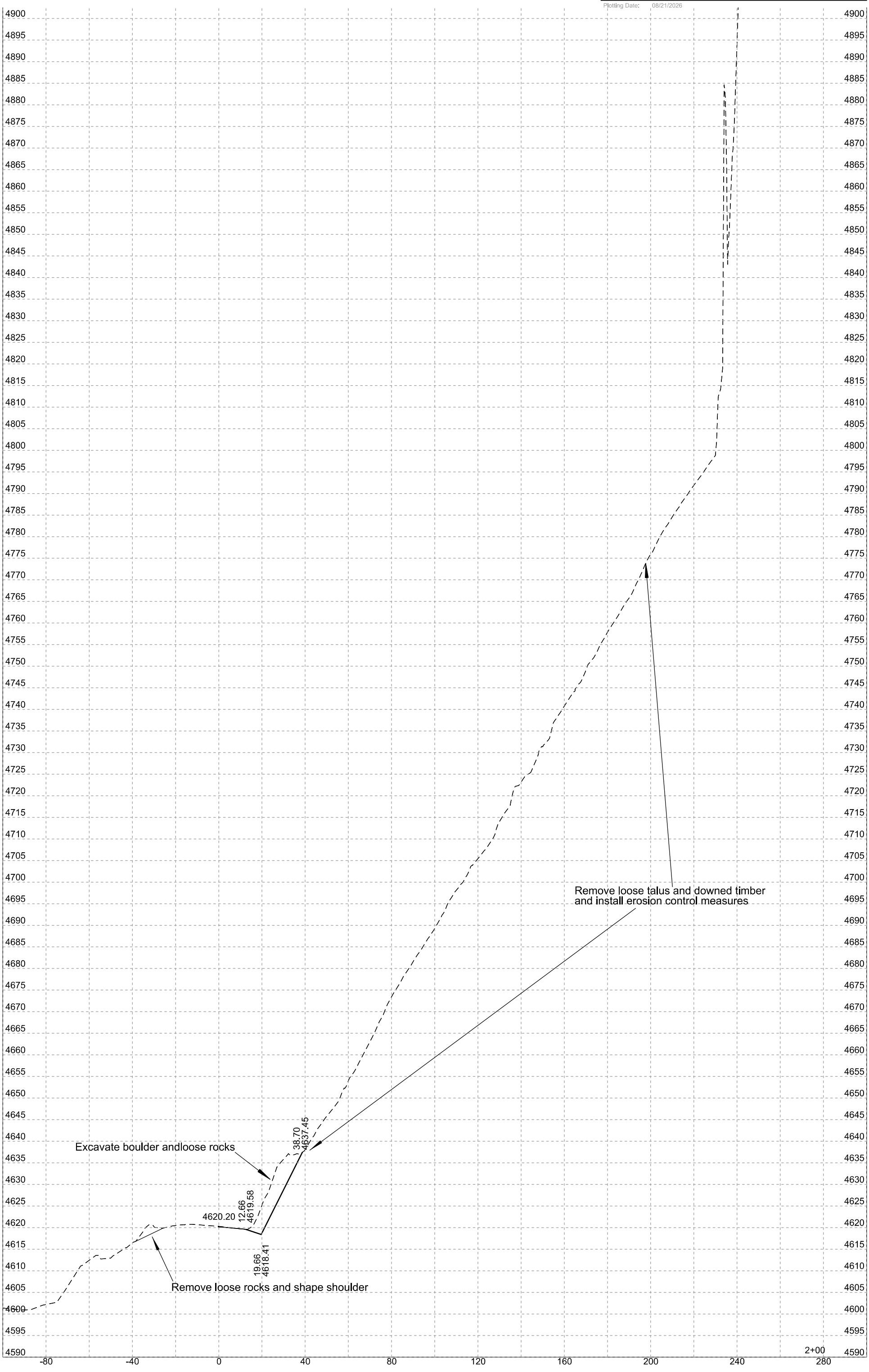
Plotting Date: 08/21/2026



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STATE OF SOUTH DAKOTA	PROJECT	SECTION	SHEET
	P 014A(38020	Non	18/22

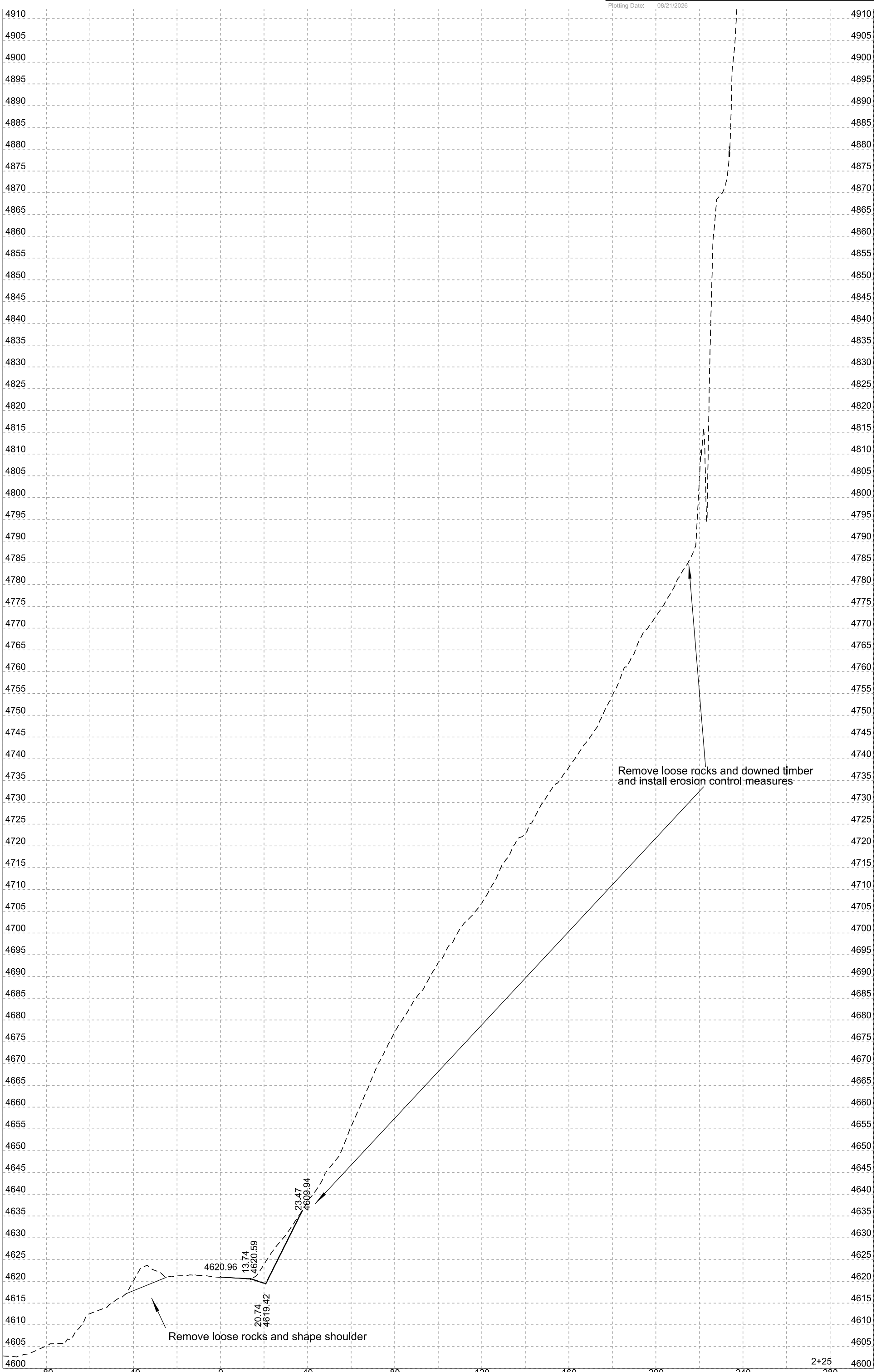
Plotting Date: 08/21/2026



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STATE OF SOUTH DAKOTA	PROJECT	SECTION	SHEET
	P 014A(38020	Non	19/22

Plotting Date: 08/21/2026



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STATE OF SOUTH DAKOTA	PROJECT	SECTION	SHEET
	P 014A(38020	Non	20/22

Plotting Date: 08/21/2026

Remove loose rocks and downed timber and install erosion control measures

Remove nested rocks

4621.73

14.83

4620.89

29.57

4627.56

21.74

4619.74

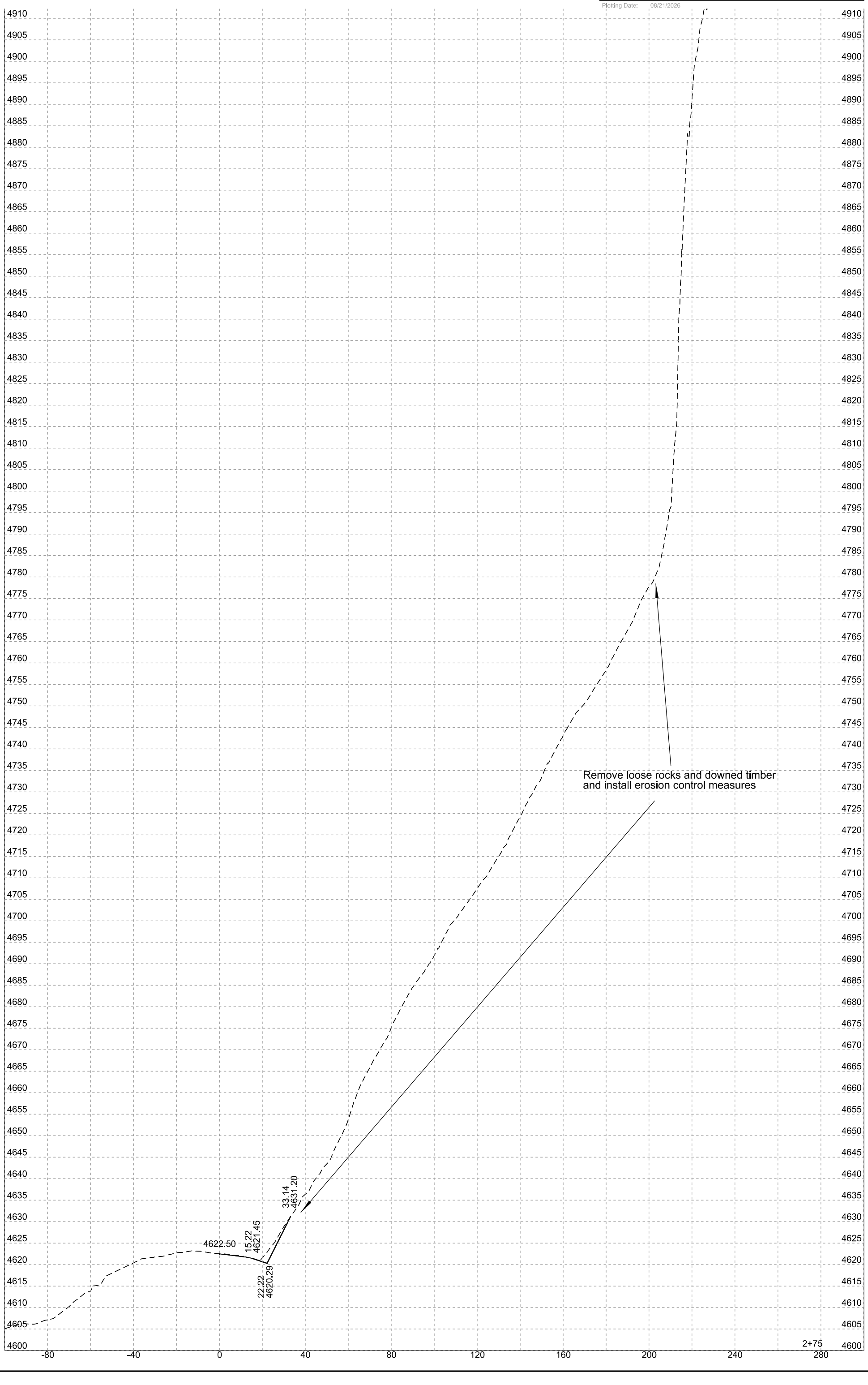
Remove loose rocks and shape shoulder

2+50

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STATE OF SOUTH DAKOTA	PROJECT	SECTION	SHEET
	P 014A(38020	Non	21/22

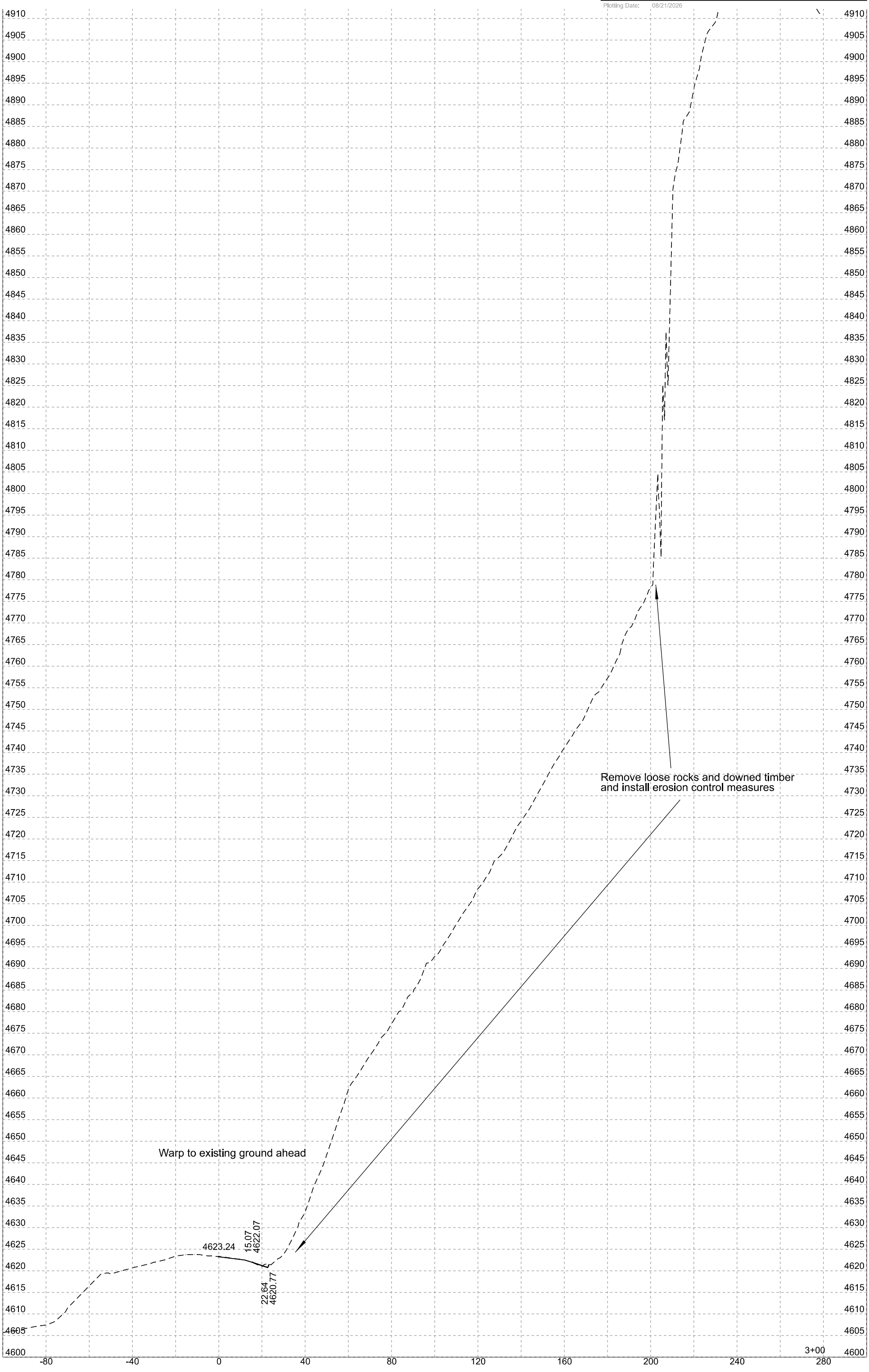
Plotting Date: 08/21/2026



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STATE OF SOUTH DAKOTA	PROJECT	SECTION	SHEET
	P 014A(38020	Non	22/22

Plotting Date: 08/21/2026



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