Department of Transportation

Office of Project Development

700 E Broadway Avenue
Pierre, South Dakota 57501-2586 605/773-3268
FAX: 605/773-2614

February 23, 2016

ADDENDUM NO. 2

RE: Item #1, February 24, 2016 Letting - NH-PH 0018(177)104, P 0391(06)0, PCN 02QC, 02NH, Oglala Lakota County - Shoulder Widening, Cold Milling Asphalt Concrete, Asphalt Concrete Resurfacing, & Replace Structures

TO WHOM IT MAY CONCERN:

The following addenda to the plans shall be inserted and made a part of your proposal for the referenced project.

SPECIAL PROVISIONS: NO CHANGE

BID ITEM FILE: NO CHANGE

PLANS: Please add Section G.

Sheets 1 through 14: Section G was added.

Sincerely,

Sam Weisgram
Engineering Supervisor

SW/cj

CC: Todd Seaman, Rapid City Region Engineer
Rich Zacher, Custer Area Engineer

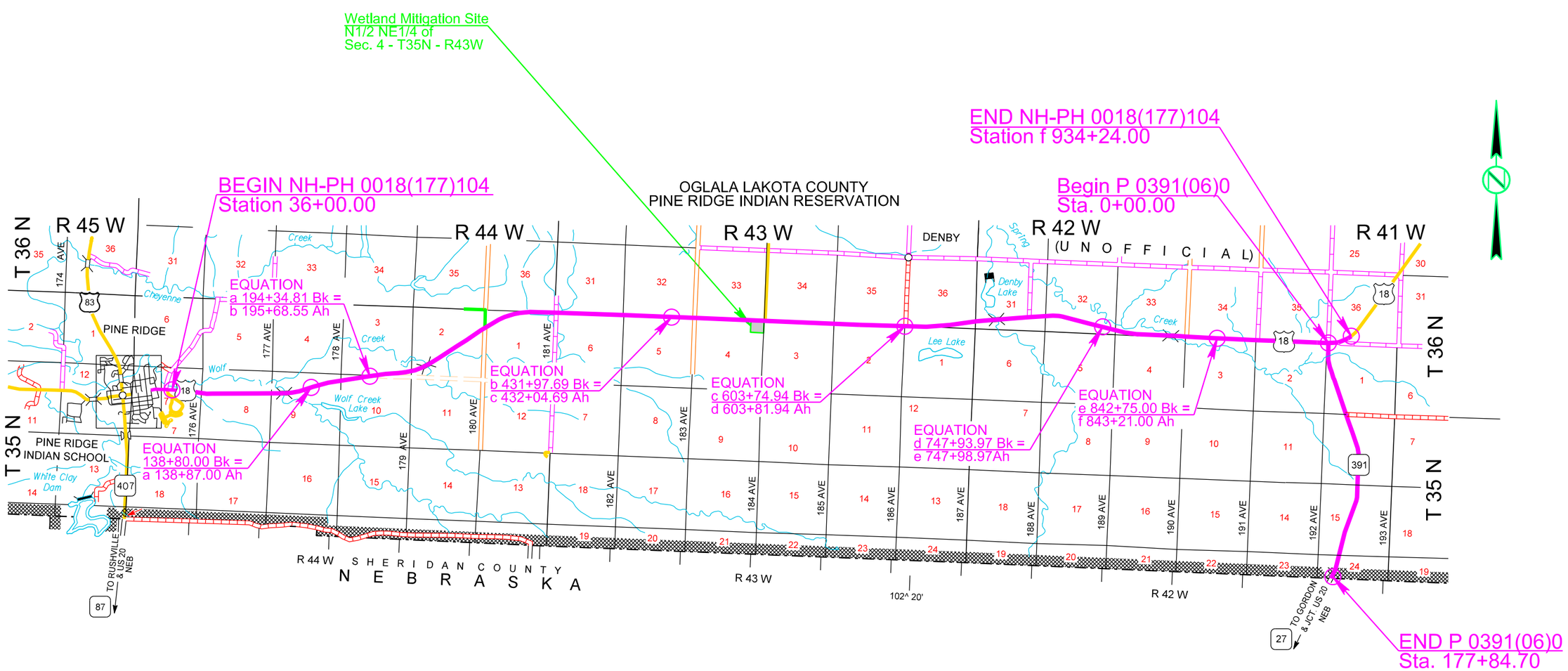
Section G: Wetland Mitigation Plans

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0391(06)0 NH-PH 0018(177)104	G1	G14

Plotting Date: 12/16/2015

INDEX OF SHEETS

G1			General Layout W/ Index
G2	to	G4	Estimate with General Notes & Tables
G5			Grading Plan
G6	to	G7	Erosion Control
G8	to	G12	Cross Sections
G13	to	G14	Standard Plates



Plot Scale - 1:200

Plot Name - 1

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Plotted From - TRSF12143

SECTION G ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E0600	Remove Fence	872	Ft
110E1700	Remove Silt Fence	865	Ft
120E0010	Unclassified Excavation	35,932	CuYd
230E0010	Placing Topsoil	7,383	CuYd
620E0030	Type 3 Right-of-Way Fence	2,820	Ft
620E1020	2 Post Panel	3	Each
620E1030	3 Post Panel	8	Each
730E0251	Special Permanent Seed Mixture 1	68	Lb
730E0252	Special Permanent Seed Mixture 2	56	Lb
732E0100	Mulching	9.1	Ton
734E0154	12" Diameter Erosion Control Wattle	2,420	Ft
734E0602	Low Flow Silt Fence	865	Ft
734E0610	Mucking Silt Fence	60	CuYd
734E0620	Repair Silt Fence	216	Ft
735E2040	4' to 6' Tree, Furnish and Plant	8	Each

GRADING OPERATIONS

The estimated cubic yards of excavation required to construct the wetland mitigation site is listed below in the "Table of Unclassified Excavation".

The Contractor shall excavate and stockpile 9" of topsoil from the wetland site. After the topsoil has been removed, the Contractor shall rough grade (finish grade) the bottom of the wetland site to an elevation 6" lower than shown in the plans. The excavated material shall be wasted at a Contractor Furnished Waste site listed in Section B or at an alternate site approved by the Engineer. Archeological clearances would need to be obtained for alternative waste site(s) that have not been previously cleared.

6" of topsoil shall be replaced, seeded and mulched as directed in the plans within the wetland site including the surrounding 4:1 backslope. The mitigation buffer area shall be disked, seeded and mulched.

Any large rocks/boulders encountered during the excavation of the wetland mitigation site shall be stockpiled adjacent to the site. These large rocks/boulders shall be placed back within the wetland bottom in a random pattern and as directed by the Engineer after the topsoil has been placed, seeded and mulched. All costs associated with collecting and placing the large rocks/boulders shall be incidental to the contract unit price per cubic yard for "Unclassified Excavation".

Permanent fence shall be placed ahead of the grading operation unless otherwise directed by the Engineer.

TABLE OF UNCLASSIFIED EXCAVATION

Excavation	28549
Topsoil	7383
Total	35932

UTILITIES

The Contractor shall be aware that the existing utilities shown in the plans were surveyed prior to the design of this project and might have been relocated or replaced by a new utility facility prior to construction of this project, might be relocated or replaced by a new utility facility during the construction of this project, or might not require adjustment and may remain in its current location. The Contractor shall contact each utility owner and confirm the status of all existing and new utility facilities. The utility contact information is provided elsewhere in the plans or bidding documents.

Lacreek Electric has relocated their overhead electric transmission line to a new easement along the south side of US18 within the wetland mitigation site in association with this highway improvement project (PCN 02QC). The overhead electric line shall remain in place with the contractor adhering to a fifteen (15) foot approach clearance with construction equipment and personnel. When construction equipment and/or personnel needs to be within 15 feet of the electric transmission line, the contractor shall provide a 72 hour notification so they may provide a representative onsite while construction activities are taking place. Lacreek Electric contact information: Mike Pisha or Ryan Petitt 605-685-6581.

PLACING TOPSOIL

The placement thickness will be approximately 6 inches within the wetland mitigation site.

The estimated amount of topsoil to be placed is as follows:

Location	Topsoil (CuYd)
Wetland Mitigation Site	7383
Total:	7383

PERMANENT SEEDING

The areas to be seeded with Special Permanent Seed Mixture 1 consist of the newly graded 4:1 backslope and disturbed upland buffer area around the perimeter of the wetland mitigation site.

The areas to be seeded with Special Permanent Seed Mixture 2 consist of the newly graded wetland mitigation site bottom.

Care should be taken to ensure that upland soils do not erode into wetland areas and cover wetland seedlings. The Contractor may need to seed using two different methods in the wetland bottom to ensure that each type of seed is planted at the correct depth. Some seed, especially wetland forbs, rushes, and sedges, will need to be broadcast rather than drilled so that they are not planted too deep. Grasses typically need to be planted deeper and will require drilling as stated in the specifications.

PERMANENT SEEDING (CONTINUED)

Special Permanent Seed Mixture 1 shall consist of the following:

Grass Species	Variety	Pure Live Seed (PLS) (Pounds/Acre)
Western Wheatgrass	Flintlock, Rodan, Rosana	7
Green Needlegrass	Lodorm	3
Sideoats Grama	Butte, Killdeer, Pierre, Trailway	3
Blue Grama	Bad River, Willis	2
Prairie Sandreed	Goshen	2
Sand Dropseed	Native Harvest	1
QuickGuard or Regreen -use April through November Oats or Spring Wheat -use April through May Winter Wheat -use August through November		15
	Total:	33

Special Permanent Seed Mixture 2 shall consist of the following:

Grass Species	Variety	Pure Live Seed (PLS) (Pounds/Acre)
Canada wildrye (3)	Elymus canadensis	3.00
Bluejoint (5)	Calamagrostis canadensis	0.20
Awl-fruited sedge (7)	Carex stipata	0.75
Short-beaked sedge (8)	Carex rostrata	0.50
River bulrush (2)	Scirpus fluviatilis	2.00
Spike rush (4)	Eleocharis palustris	0.25
Soft-stem bulrush (3)	Scirpus validus	0.50
Rice cutgrass (2)	Leersia oryzoides	0.25
Big bluestem (5)	Andropogon gerardii	2.00
Switchgrass (5)	Panicum virgatum	1.00
Prairie cordgrass (5)	Spartina pectinata	1.00
Cup plant (6)	Silphium perfoliatum	0.30
Black-eyed Susan (5)	Rudbeckia hirta	0.15
Water plantain (2)	Alisma subcordatum	1.00
Swamp milkweed (5)	Asclepias incarnata	0.20
New England aster (8)	Aster novae-angliae	0.20
	Total:	13.3

Plot Scale - 1:200
Plotted From - TRSF12141
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EXISTING WETLANDS

The Contractor shall not disturb the existing wetland area as identified in the Section G plan sheets. Access points shall be limited and shall be approved by the Engineer.

MULCHING (GRASS HAY OR STRAW)

Grass Hay or Straw Mulch for stabilization is to be used at the wetland mitigation site at the locations noted in the table below. Additional locations may be determined by the Engineer during construction.

The mulch should be disk-anchored to prevent movement. If the mulch windrows along the edge of open water, it should be removed or re-spread.

TABLE OF GRASS HAY OR STRAW MULCH

Location	Rate (Tons/Acre)	Area (Acres)	Quantity (Ton)
Wetland Bottom	1	5.04	5.0
Upland Buffer / 4:1 Backslope	2	2.04	4.1
Total:			9.1

LOW FLOW SILT FENCE

The low flow silt fence fabric provided shall be from the approved product list. The approved product list for low flow silt fence may be viewed at the following internet site:

http://sddot.com/business/certification/products/Default.aspx

Low flow silt fence shall be placed at the locations noted in the table and at locations that will minimize siltation of adjacent streams, lakes, dams, or drainage areas as determined by the Engineer during construction. Refer to Standard Plate 734.04 for details.

Prior to implementation of the permanent erosion control, the low flow silt fence shall be removed.

TABLE OF LOW FLOW SILT FENCE

Station / Offset	to	Station / Offset	Quantity (Ft)
c491+12-40'R		c492+70-245'R.	305
c495+57-262'R		c497+23-712'R	560
		Total:	865

EROSION CONTROL WATTLE

Erosion control wattles for restraining the flow of runoff and sediment shall 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 shall provide certification that the erosion control wattles do not contain noxious weed seeds.

Erosion control wattles shall remain at the wetland mitigation site to decompose.

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

http://sddot.com/business/certification/products/Default.aspx

TABLE OF EROSION CONTROL WATTLE

Location	Diameter (Inch)	Quantity (Ft)
Wetland Mitigation Site	12	2,420
Total:		2,420

BRACE PANELS FOR ROW FENCE

The E-Z Brace or an approved equal may be utilized as an alternate horizontal brace in the brace panels if approved by the Engineer. The E-Z Brace shall be attached to each wood post utilizing two 5/16" x 3" lag screws. Holes of appropriate diameter, based on wood post condition, shall be drilled before placement of lag screws. The following are contacts regarding the E-Z Brace:

Roger Papka
E-Z Brace
1160 Karen St.
Watertown, SD 57201
605-881-6142

Dennis Mack
E-Z Brace
108 18th St. NE
Watertown, SD 57201
605-881-4990

TREE REPLACEMENT

Trees shall be planted in a random pattern to mimic nature.

Planting locations for each individual tree shall be identified prior to planting and approved by the Engineer.

All trees shall be purchased from county Conservation Districts, a Landscape Nursery, or other approved source. Trees furnished shall be of the same genus, species, cultivar, and size as specified in the plans. Each tree shall have an identification label.

After being planted, each tree shall receive 10 gallons of water to thoroughly saturate the backfill soil as this provides settlement and filling of voids in the backfill. As soon as the initial planting is completed, the Engineer shall visually inspect the trees for health, vigor, and condition, and shall at that time accept or reject them.

The Contractor shall use manufactured tree shelters as approved by the Engineer during construction. Degradable tree shelters are preferred. The height of the tree shelters shall be 5 feet in an effort to protect the trees from deer. The manufactured tree shelters shall be installed according to the manufacturer's installation instructions.

Wood chip mulch shall be applied at the base of each tree at a 4 inch depth and in a 3 foot diameter for weed suppression. The wood chip mulch shall be pulled back from the base of the tree trunk 2 inches to expose the trunk.

The Contractor shall provide a one year warranty for all trees. After one year from initial planting, the Engineer shall make an inspection and dead, unhealthy, or otherwise not acceptable plants shall be replaced by the Contractor at no additional cost to the State.

All costs for furnishing, handling, storing, and planting the trees including the materials, equipment, labor, preparation of the ground, initial watering, cleanup of the planted areas, tree shelters, wood chip mulch, and the warranty shall be incidental to the contract unit price per each for "4' to 6' Tree, Furnish and Plant".

TABLE OF TREE REPLACEMENT

Common Name	Botanical Name	Height	Quantity	Station	Side
Sandbar Willow	*Salix interior*	4' to 6'	4	122+00	Lt
Peachleaf Willow	*Salix amydaloides*	4' to 6'	4	123+00 to124+00	Lt

Plot Scale - 1:200
Plotted From - TRSF12141
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SECTION G: TABLE OF FENCE QUANTITIES

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0391(06)0 NH-PH 0018(177)104	G4	G14

Plotting Date: 12/16/2015

Station to Station		Ofset to Ofset (Ft)		Side (L/R)	Right-of-Way Fence Type 3 (Ft)	Post Pannels 2 Post Pannel (Each)	Post Pannels 3 Post Pannel (Each)	Gates N.A.B.I. 24' Barbed Wire Gate (Each)	Remove Fence (Ft)
c 489+61	c 489+61	148	336	R	164	1	1	1	
c 489+61	c 497+57	336	1038	R	1078	2	2		
c 489+61	c 496+70	192	190	R	710		2		
c 497+55	c 497+57	190	1058	R	868		3		872
				TOTALS :	2820	3	8	1	872

POST TYPE AND SEQUENCE:
RIGHT-OF-WAY FENCE SHALL BE CONSTRUCTED USING ALTERNATE WOOD AND STEEL POSTS EXCEPT AS NOTED.

Plot Scale - 1:200
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WETLAND MITIGATION GRADING PLAN

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-PH 0018(177)104	G5	G14

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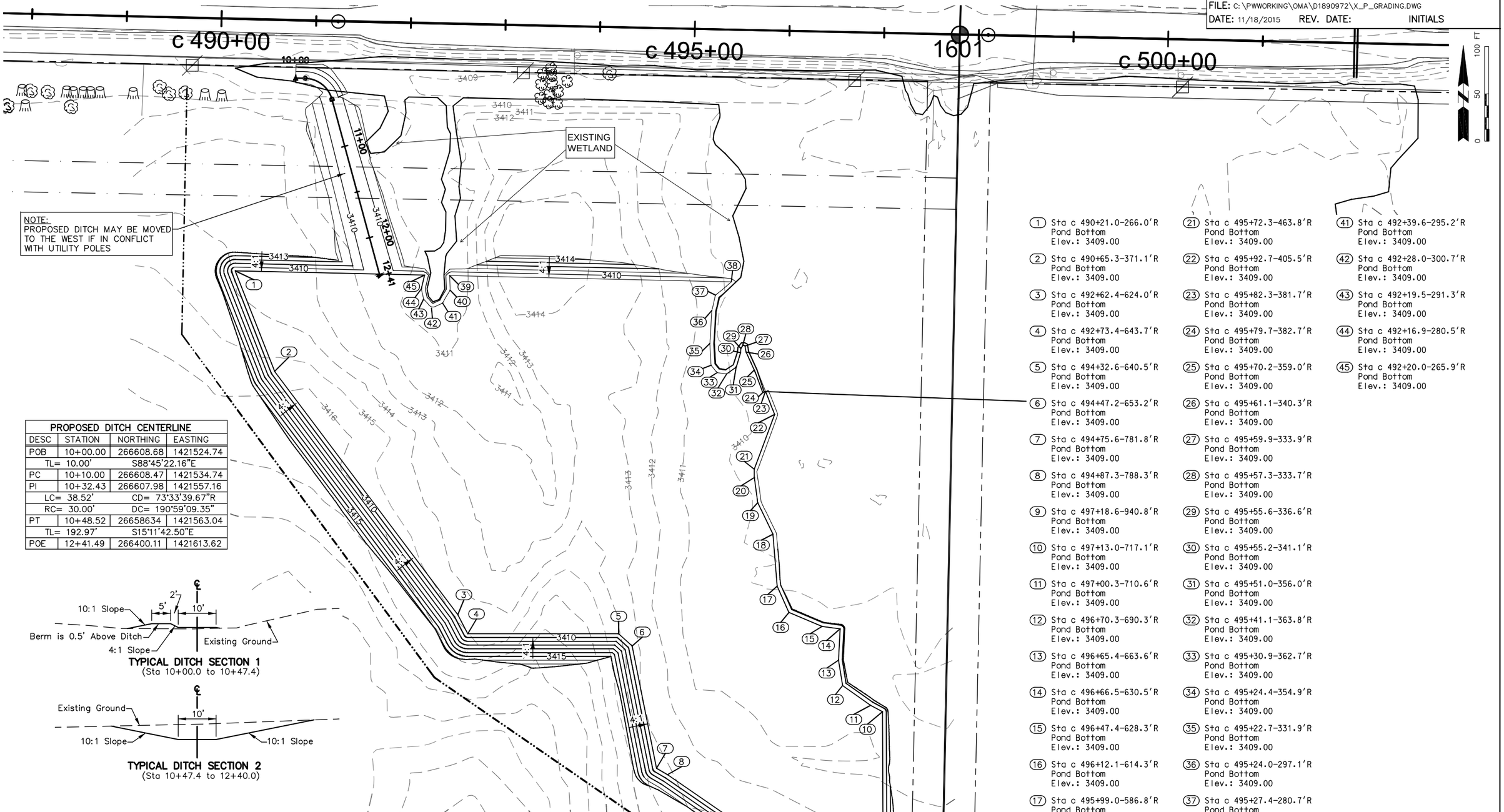
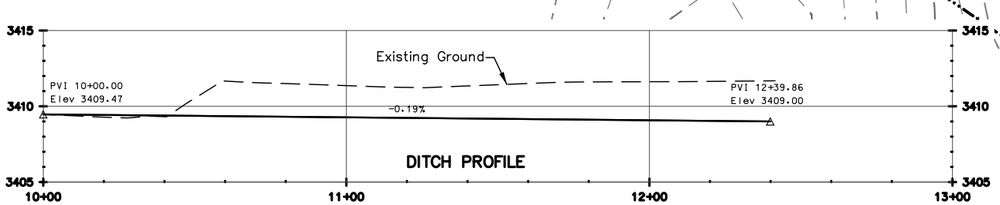


PROPOSED DITCH CENTERLINE			
DESC	STATION	NORTHING	EASTING
POB	10+00.00	266608.68	1421524.74
TL= 10.00'		S88°45'22.16"E	
PC	10+10.00	266608.47	1421534.74
PI	10+32.43	266607.98	1421557.16
LC= 38.52'		CD= 73°33'39.67"R	
RC= 30.00'		DC= 190°59'09.35"	
PT	10+48.52	26658634	1421563.04
TL= 192.97'		S15°11'42.50"E	
POE	12+41.49	266400.11	1421613.62

TYPICAL DITCH SECTION 1
(Sta 10+00.0 to 10+47.4)

TYPICAL DITCH SECTION 2
(Sta 10+47.4 to 12+40.0)



DITCH PROFILE

1. Sta c 490+21.0-266.0'R Pond Bottom Elev.: 3409.00
2. Sta c 490+65.3-371.1'R Pond Bottom Elev.: 3409.00
3. Sta c 492+62.4-624.0'R Pond Bottom Elev.: 3409.00
4. Sta c 492+73.4-643.7'R Pond Bottom Elev.: 3409.00
5. Sta c 494+32.6-640.5'R Pond Bottom Elev.: 3409.00
6. Sta c 494+47.2-653.2'R Pond Bottom Elev.: 3409.00
7. Sta c 494+75.6-781.8'R Pond Bottom Elev.: 3409.00
8. Sta c 494+87.3-788.3'R Pond Bottom Elev.: 3409.00
9. Sta c 497+18.6-940.8'R Pond Bottom Elev.: 3409.00
10. Sta c 497+13.0-717.1'R Pond Bottom Elev.: 3409.00
11. Sta c 497+00.3-710.6'R Pond Bottom Elev.: 3409.00
12. Sta c 496+70.3-690.3'R Pond Bottom Elev.: 3409.00
13. Sta c 496+65.4-663.6'R Pond Bottom Elev.: 3409.00
14. Sta c 496+66.5-630.5'R Pond Bottom Elev.: 3409.00
15. Sta c 496+47.4-628.3'R Pond Bottom Elev.: 3409.00
16. Sta c 496+12.1-614.3'R Pond Bottom Elev.: 3409.00
17. Sta c 495+99.0-586.8'R Pond Bottom Elev.: 3409.00
18. Sta c 495+93.5-532.0'R Pond Bottom Elev.: 3409.00
19. Sta c 495+76.7-499.1'R Pond Bottom Elev.: 3409.00
20. Sta c 495+72.6-472.6'R Pond Bottom Elev.: 3409.00
21. Sta c 495+72.3-463.8'R Pond Bottom Elev.: 3409.00
22. Sta c 495+92.7-405.5'R Pond Bottom Elev.: 3409.00
23. Sta c 495+82.3-381.7'R Pond Bottom Elev.: 3409.00
24. Sta c 495+79.7-382.7'R Pond Bottom Elev.: 3409.00
25. Sta c 495+70.2-359.0'R Pond Bottom Elev.: 3409.00
26. Sta c 495+61.1-340.3'R Pond Bottom Elev.: 3409.00
27. Sta c 495+59.9-333.9'R Pond Bottom Elev.: 3409.00
28. Sta c 495+57.3-333.7'R Pond Bottom Elev.: 3409.00
29. Sta c 495+55.6-336.6'R Pond Bottom Elev.: 3409.00
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31. Sta c 495+51.0-356.0'R Pond Bottom Elev.: 3409.00
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35. Sta c 495+22.7-331.9'R Pond Bottom Elev.: 3409.00
36. Sta c 495+24.0-297.1'R Pond Bottom Elev.: 3409.00
37. Sta c 495+27.4-280.7'R Pond Bottom Elev.: 3409.00
38. Sta c 495+44.0-266.4'R Pond Bottom Elev.: 3409.00
39. Sta c 492+46.4-265.9'R Pond Bottom Elev.: 3409.00
40. Sta c 492+47.3-281.4'R Pond Bottom Elev.: 3409.00
41. Sta c 492+39.6-295.2'R Pond Bottom Elev.: 3409.00
42. Sta c 492+28.0-300.7'R Pond Bottom Elev.: 3409.00
43. Sta c 492+19.5-291.3'R Pond Bottom Elev.: 3409.00
44. Sta c 492+16.9-280.5'R Pond Bottom Elev.: 3409.00
45. Sta c 492+20.0-265.9'R Pond Bottom Elev.: 3409.00

TEMPORARY EROSION CONTROL

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-PH 0018(177)104	G6	G14

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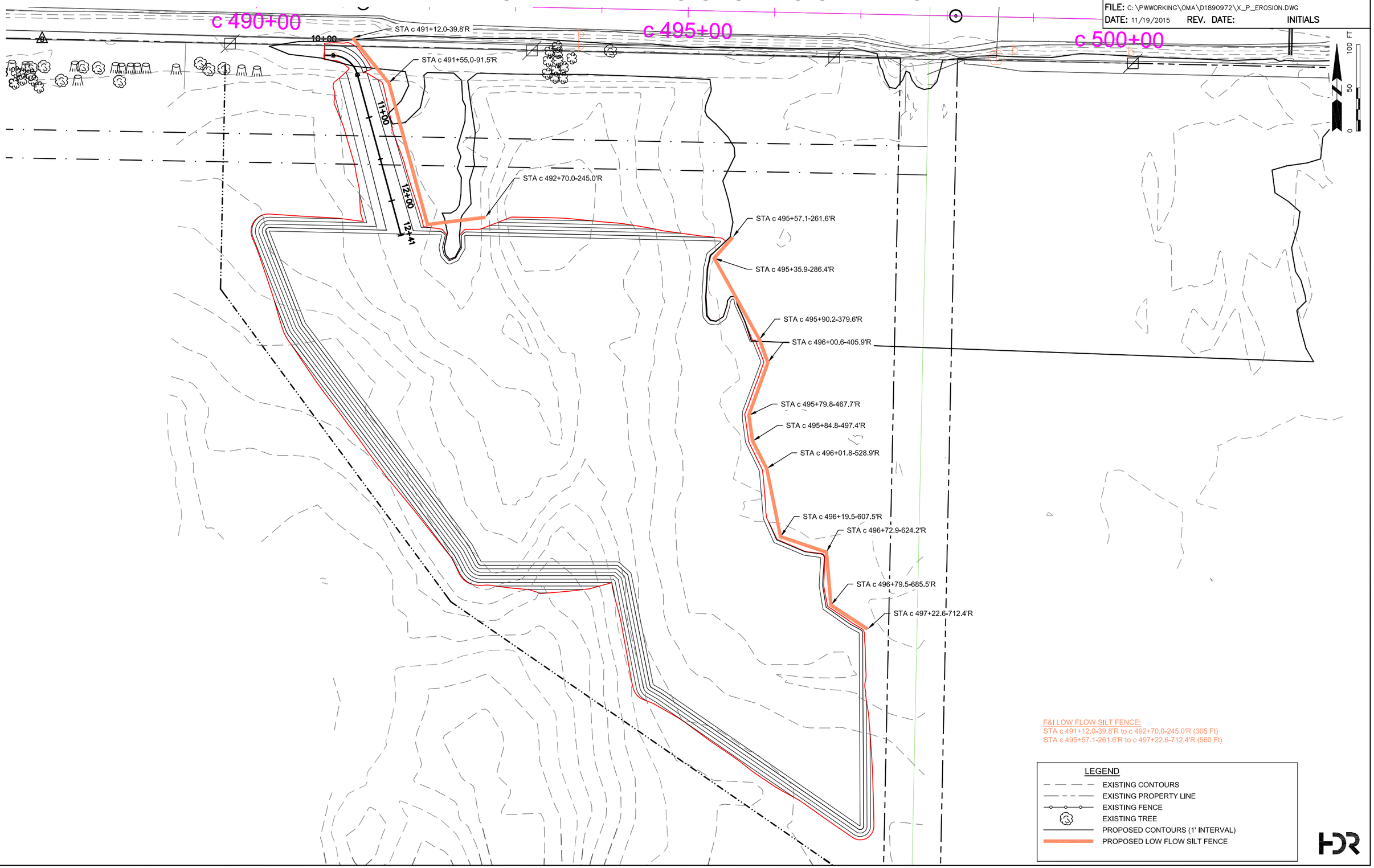

F&I LOW FLOW SILT FENCE:
STA c 491+12.0-39.8'R to c 492+70.0-245.0'R (305 Ft)
STA c 495+57.1-261.6'R to c 497+22.6-712.4'R (560 Ft)

LEGEND

- EXISTING CONTOURS
- EXISTING PROPERTY LINE
- EXISTING FENCE
- EXISTING TREE
- PROPOSED CONTOURS (1' INTERVAL)
- PROPOSED LOW FLOW SILT FENCE

PERMANENT EROSION CONTROL

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-PH 0018(177)104	G7	G14

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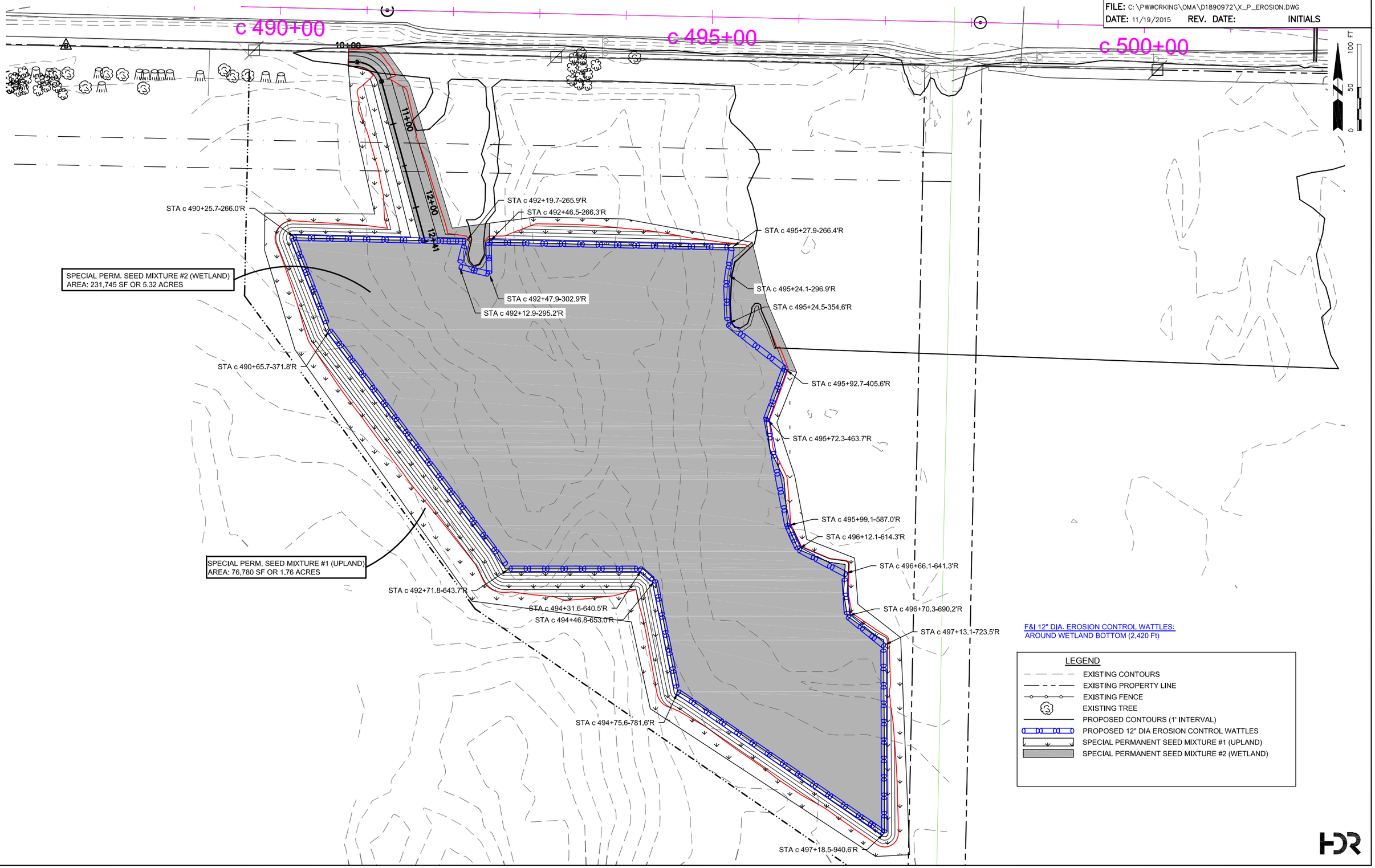

F&I 12" DIA. EROSION CONTROL WATTLES:
AROUND WETLAND BOTTOM (2,420 Ft)

LEGEND

- EXISTING CONTOURS
- EXISTING PROPERTY LINE
- EXISTING FENCE
- EXISTING TREE
- PROPOSED CONTOURS (1' INTERVAL)
- PROPOSED 12" DIA EROSION CONTROL WATTLES
- SPECIAL PERMANENT SEED MIXTURE #1 (UPLAND)
- SPECIAL PERMANENT SEED MIXTURE #2 (WETLAND)

HDR

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-PH 0018(177)104	G8	G14

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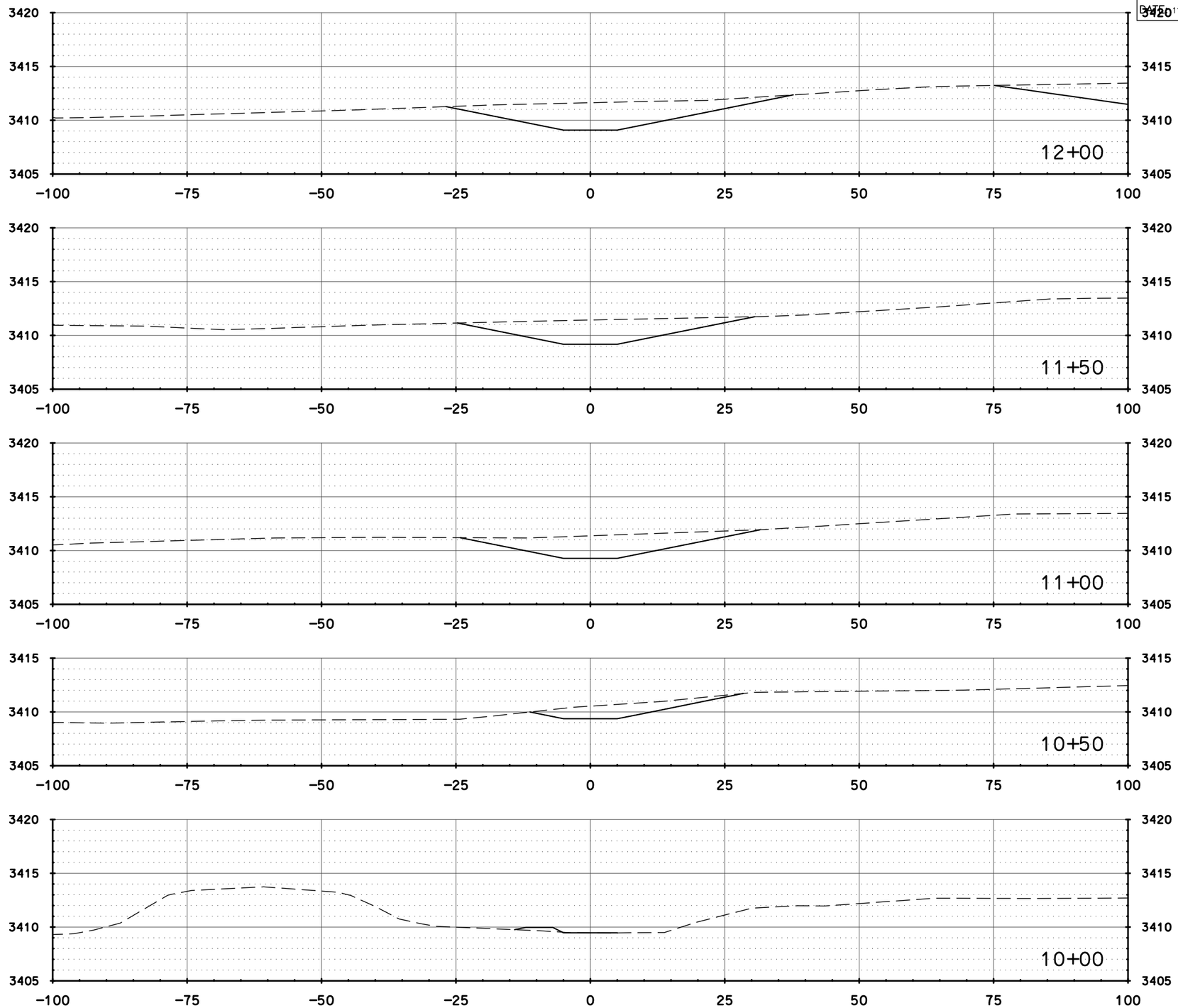

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-PH 0018(177)104	G9	G14

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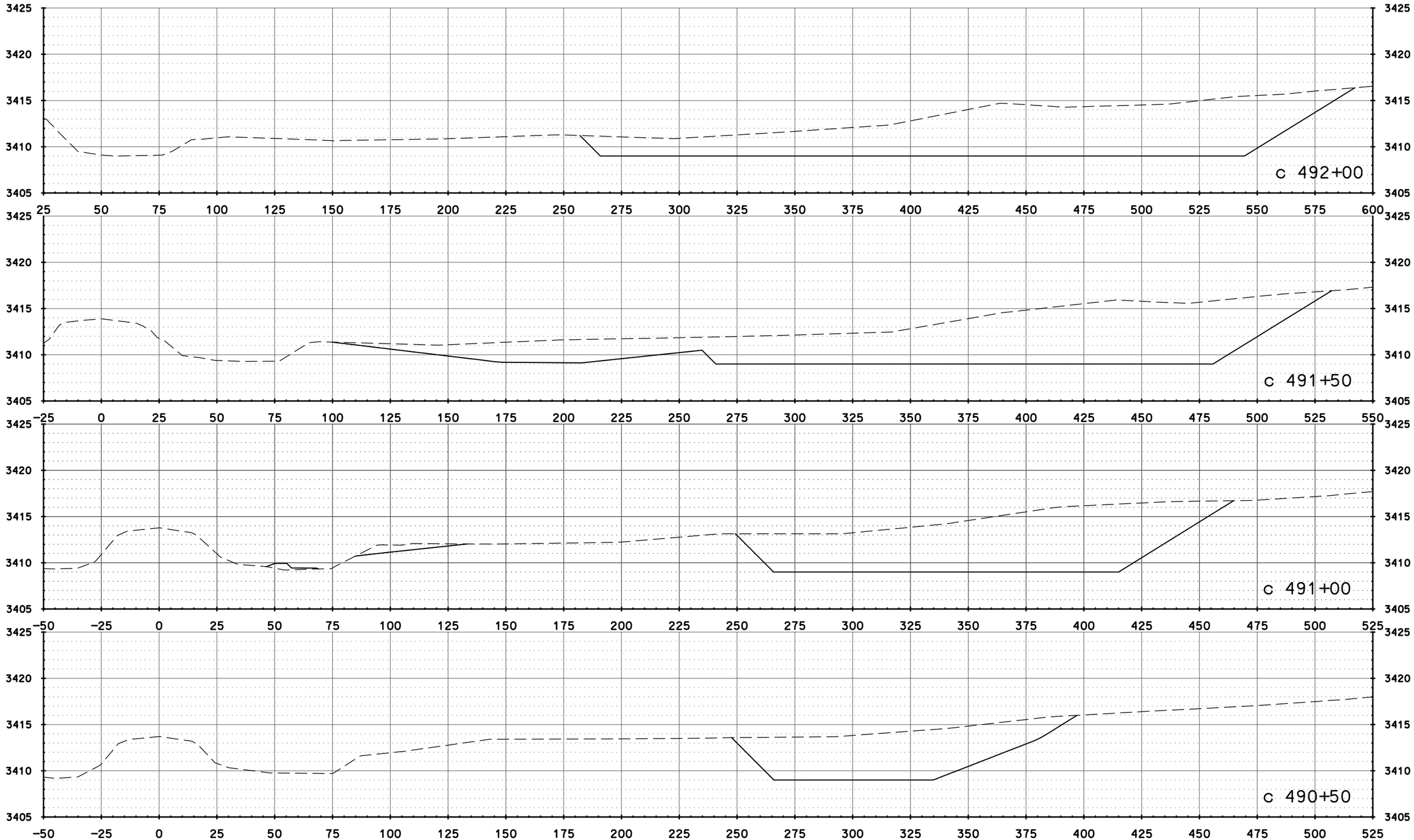

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-PH 0018(177)104	G10	G14

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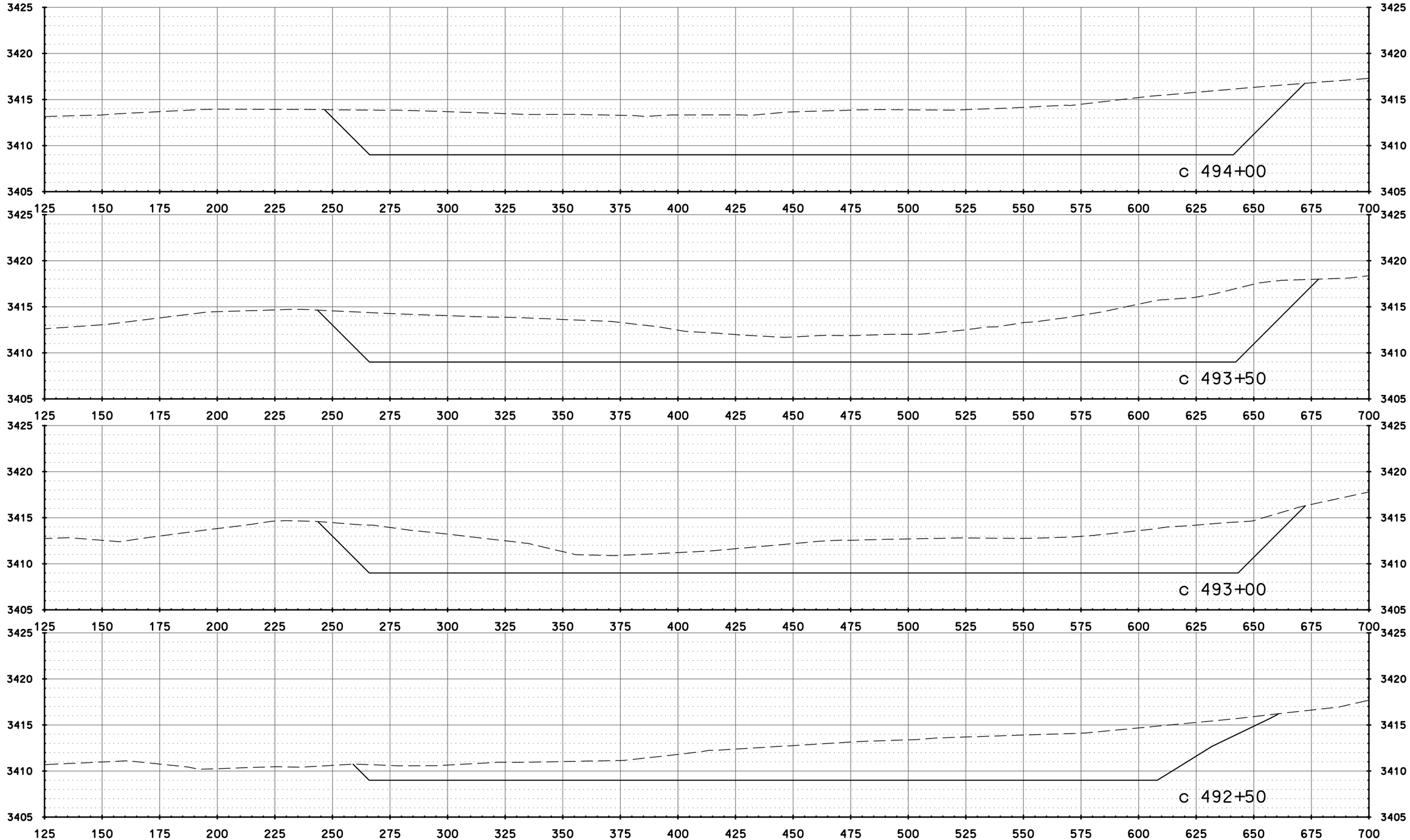

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-PH 0018(177)104	G11	G14

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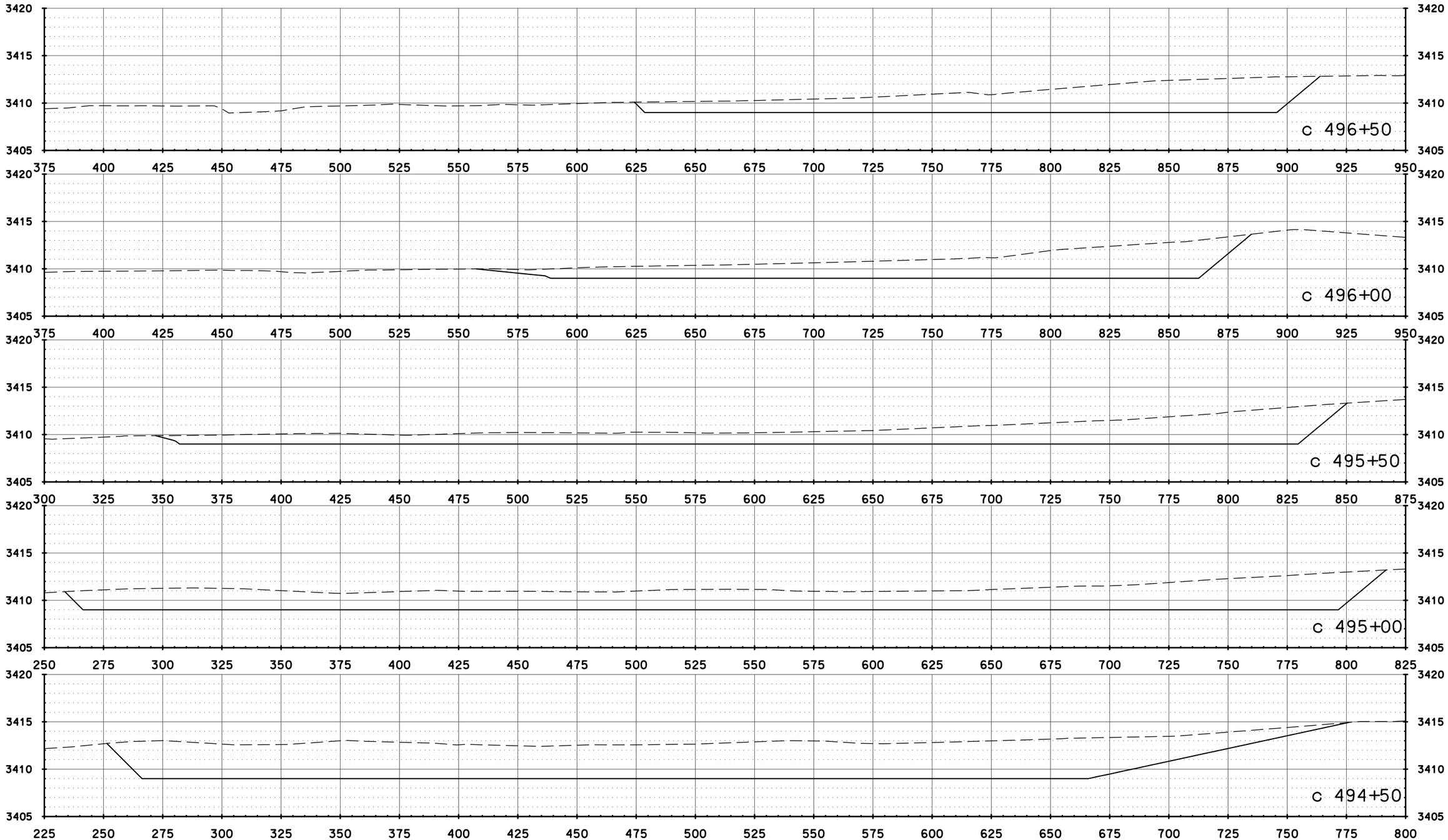

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-PH 0018(177)104	G12	G14

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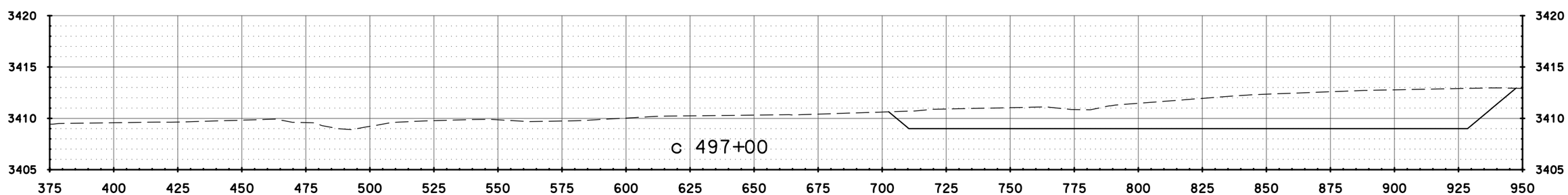
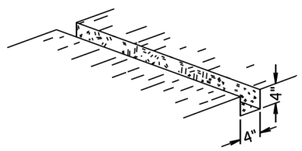
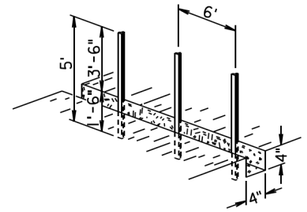


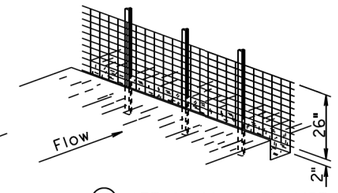
MANUAL LOW FLOW SILT FENCE INSTALLATION



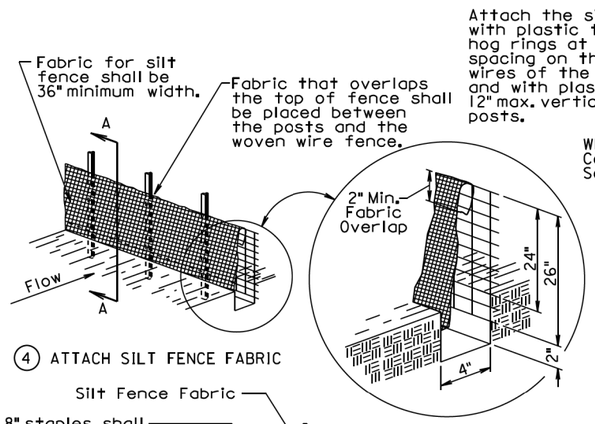
1 EXCAVATE TRENCH



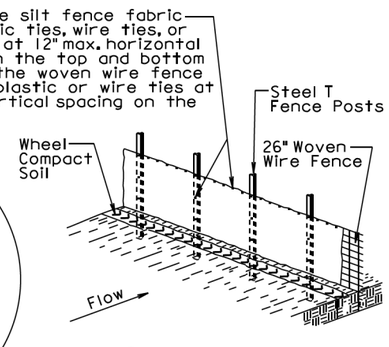
2 DRIVE STEEL T FENCE POSTS



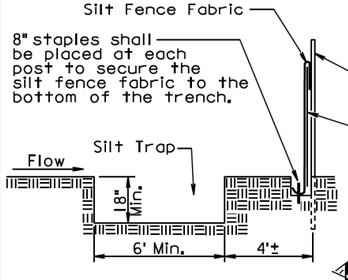
3 ATTACH 26" WOVEN WIRE FENCE TO POSTS



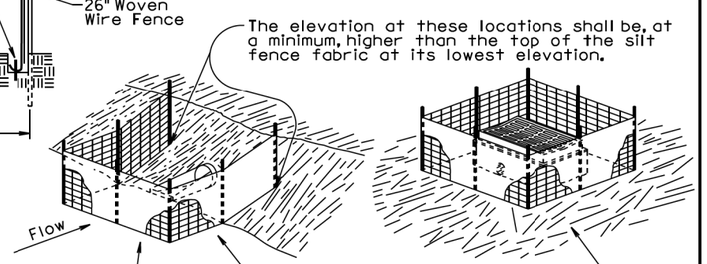
4 ATTACH SILT FENCE FABRIC



5 BACKFILL TRENCH AND WHEEL COMPACT SOIL



SECTION A-A



The silt fence length and width may be adjusted due to a larger pipe, multiple pipe, or other circumstances during construction as determined by the Engineer.

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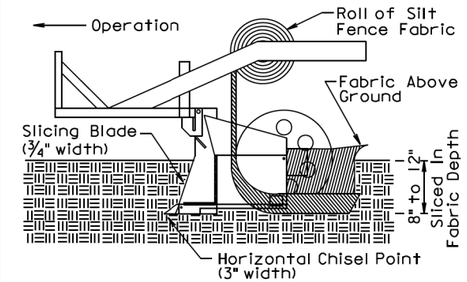
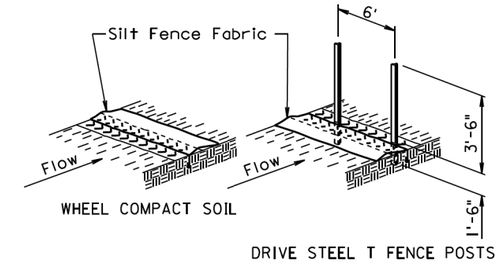
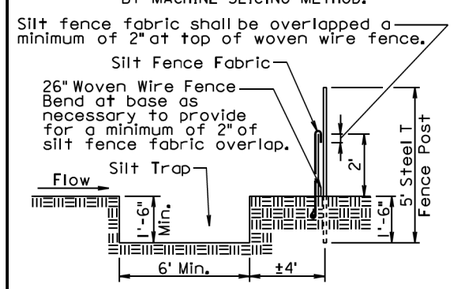
MACHINE SLICED LOW FLOW SILT FENCE INSTALLATION

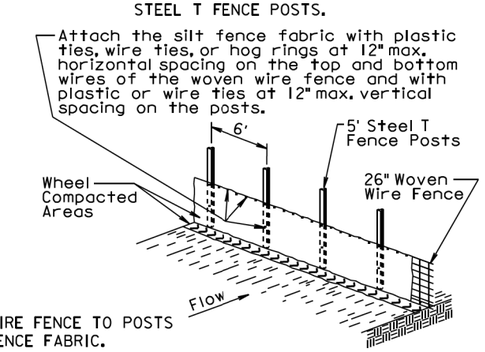


1 INSTALL SILT FENCE FABRIC BY MACHINE SLICING METHOD.

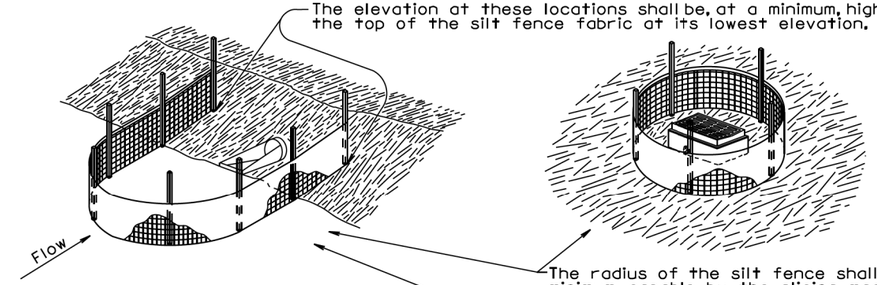


2 WHEEL COMPACT SOIL ABOVE SLICED IN PORTION OF FABRIC AND THEN DRIVE STEEL T FENCE POSTS.





3 ATTACH 26" WOVEN WIRE FENCE TO POSTS AND ATTACH SILT FENCE FABRIC.



The silt fence length and width may be adjusted due to a larger pipe, multiple pipe, or other circumstances during construction as determined by the Engineer.

The radius of the silt fence shall be the minimum capable by the slicing machine. The post spacing shall be 3' for these types of applications of silt fence. All the other components of the silt fence shall be the same as shown above.

GENERAL NOTES:

A silt trap shall be provided when specified by a plan note. All costs for constructing the silt trap shall be incidental to the contract unit price per cubic yard for "Silt Trap".

If a trench can not be dug or the silt fence fabric can not be sliced in due to the type of earthen material (such as rock), then a row of 30 to 40 pound sandbags butted end to end shall be provided on top of the extra length of silt fence fabric to prevent underflow.

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Plot Scale - 1:200
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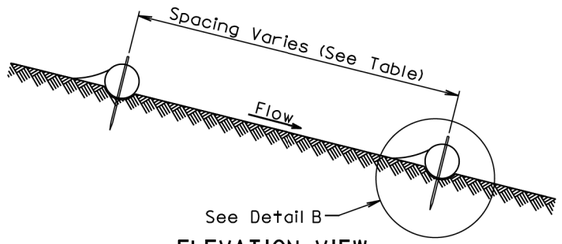
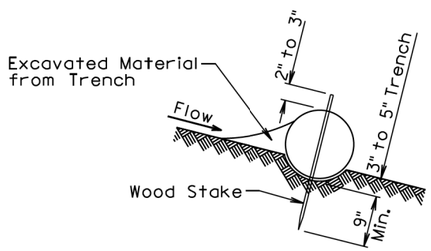
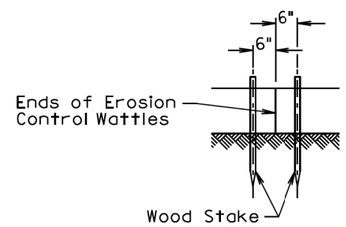


ELEVATION VIEW
CUT OR FILL SLOPE INSTALLATION

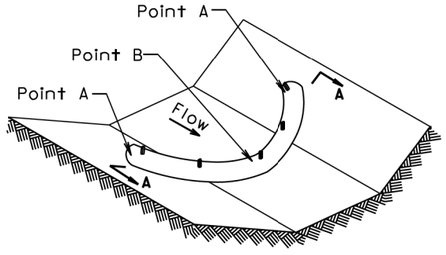
CUT OR FILL SLOPE INSTALLATION	
Slope	Spacing (Ft)
1:1	10
2:1	20
3:1	30
4:1	40



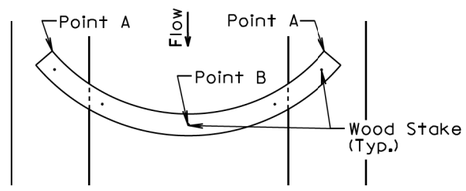
DETAIL B
(TYPICAL OF ALL INSTALLATIONS)



DETAIL C

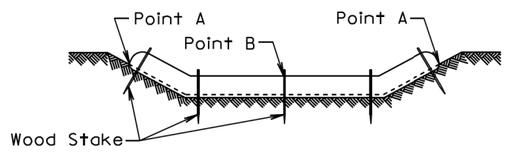


ISOMETRIC VIEW
DITCH INSTALLATION



PLAN VIEW
DITCH INSTALLATION

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



SECTION A-A

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GENERAL NOTES:

At cut or fill slope installations, wattles shall 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 shall 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 shall 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 shall be placed 6" from the ends of the wattles and the spacing of the stakes along the wattles shall be 3' to 4'.

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

The Contractor and Engineer shall inspect the erosion control wattles once every week and within 24 hours after every rainfall event greater than 1/2". The Contractor shall remove, dispose, or reshape the accumulated sediment when necessary as determined by the Engineer.

Sediment removal, disposal, or necessary shaping shall be as directed by the Engineer. All costs for removing accumulated sediment, disposal of sediment, and necessary shaping shall 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 shall be incidental to the contract unit price per foot for the corresponding erosion control wattle bid item.

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

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