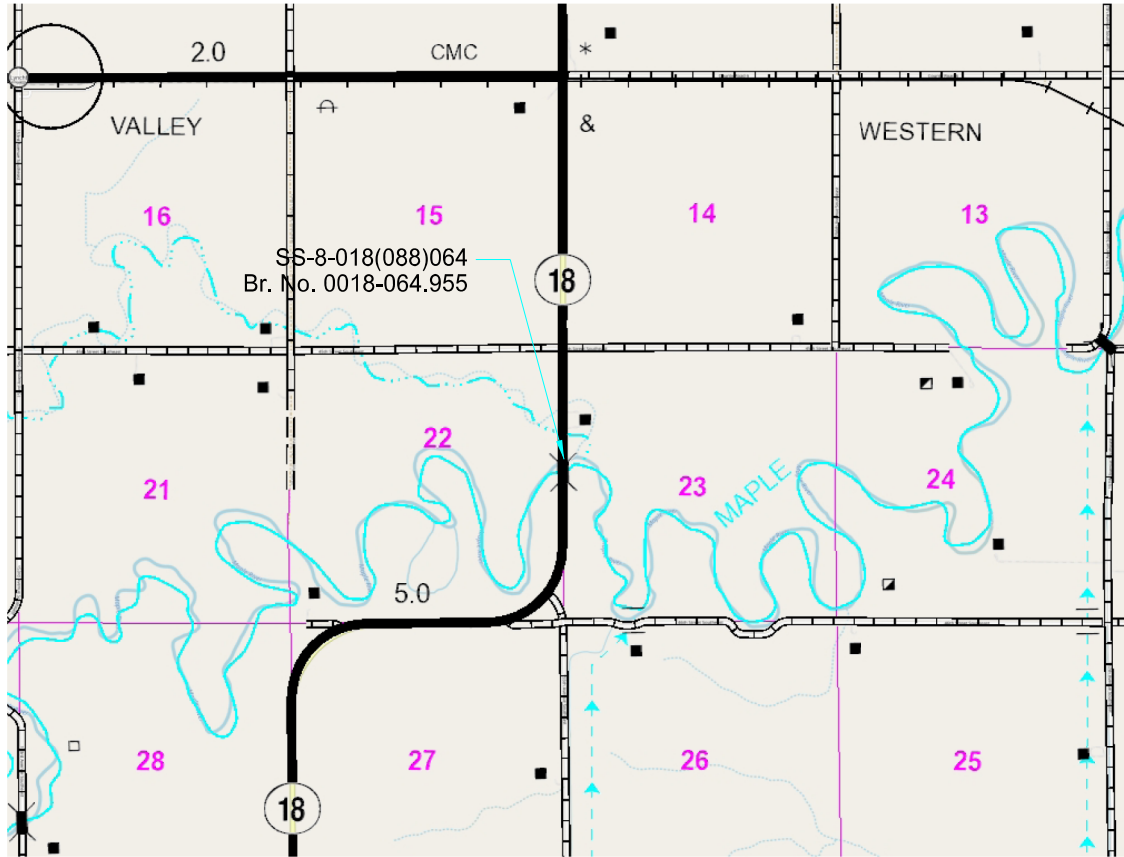
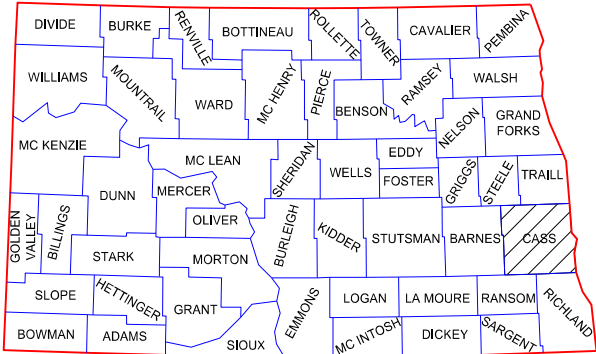
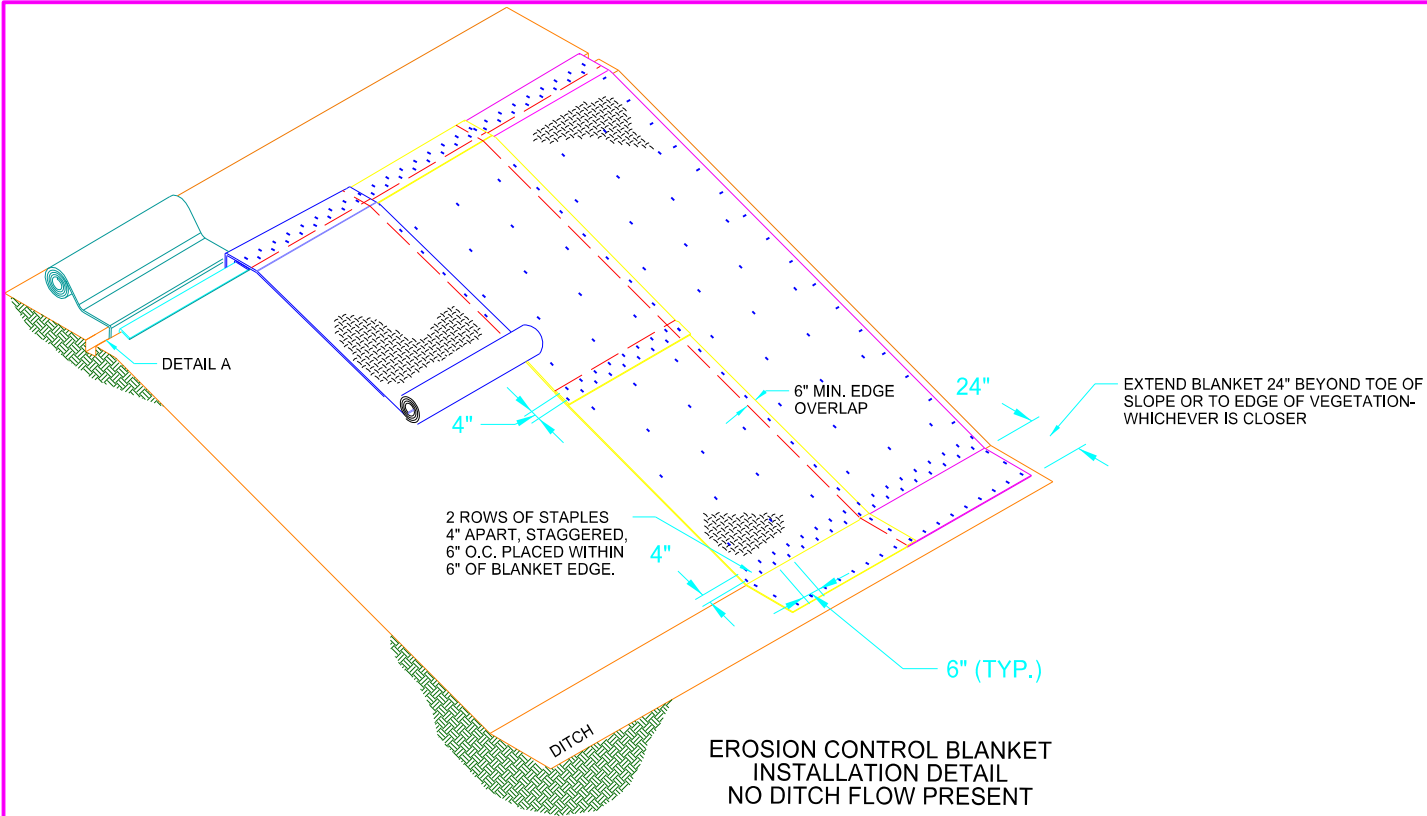


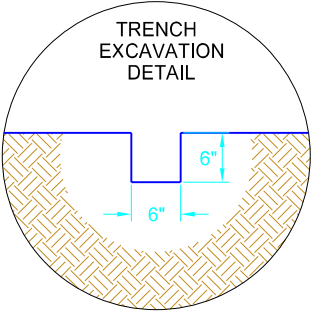
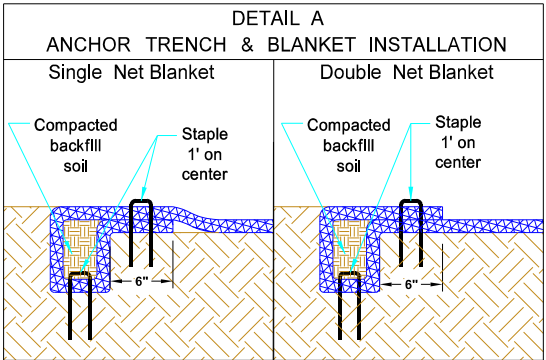
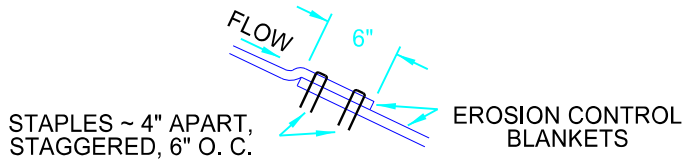
| | | | | | | | | | | | | | | | | |
|--|---------------|-----------------------|--------------|----|---|--|------------------|-------------|-----|-------------|---|--|---|--|--|--|
| DESIGN DATA | | | | | JOB # NORTH DAKOTA DEPARTMENT OF TRANSPORTATION SS-8-018(088)064 Cass County ND Hwy 18 8 Mi N of Leonard Slide Repair | | STATE | PROJECT NO. | PCN | SECTION NO. | SHEET NO. | | | | | |
| Traffic | Average Daily | | | ND | | | SS-8-018(088)064 | 21746 | 1 | 1 | | | | | | |
| Current 2016 | Pass: 830 | Trucks: 155 | Total: 985 | | | | | | | | | | | | | |
| Forecast 2036 | Pass: 1,240 | Trucks: 235 | Total: 1,475 | | | | | | | | | | | | | |
| Clear Zone Distance: 36' | | Design Speed: 65 | | | | | | | | | | | | | | |
| Minimum Sight Dist. for Stopping: | | Bridges: 0018-064.955 | | | | | | | | | | | | | | |
| Sight Dist. for No Passing Zone: | | | | | | | | | | | | | | | | |
| Pavement Design Life (years) | | | | | | | | | | | | | | | | |
| Design Accumulated One-way ESALs: | | | | | | | | | | | | | | | | |
| <div>GOVERNING SPECIFICATIONS: 2014 Standard Specifications adopted by the North Dakota Department of Transportation and the Supplemental Specifications effective on the date the project is advertised.</div> <div>PROJECT NUMBER \ DESCRIPTION NET MILES GROSS MILES SS-8-018(088)064</div> | | | | | | | | | | | | | | | | |
| <div>DESIGNERS</div> | | | | | <div></div> <div></div> <div>STATE COUNTY MAP</div> | | | | | | <div>APPROVED DATE _____</div> <div>OFFICE OF PROJECT DEVELOPMENT ND DEPARTMENT OF TRANSPORTATION</div> | | <div>I hereby certify that the attached plans were prepared by me or under my direct supervision and that I am a duly registered professional engineer under the laws of the state of ND.</div> <div>APPROVED DATE _____</div> <div>NDDOT DIV-DIST OR CONSULTANT FIRM _____</div> | | <div>This document is preliminary and not for construction or implementation purposes.</div> | |

| STATE | PROJECT NO. | SECTION NO. | SHEET NO. |
|-------|------------------|-------------|-----------|
| ND | SS-8-018(088)064 | 20 | 1 |

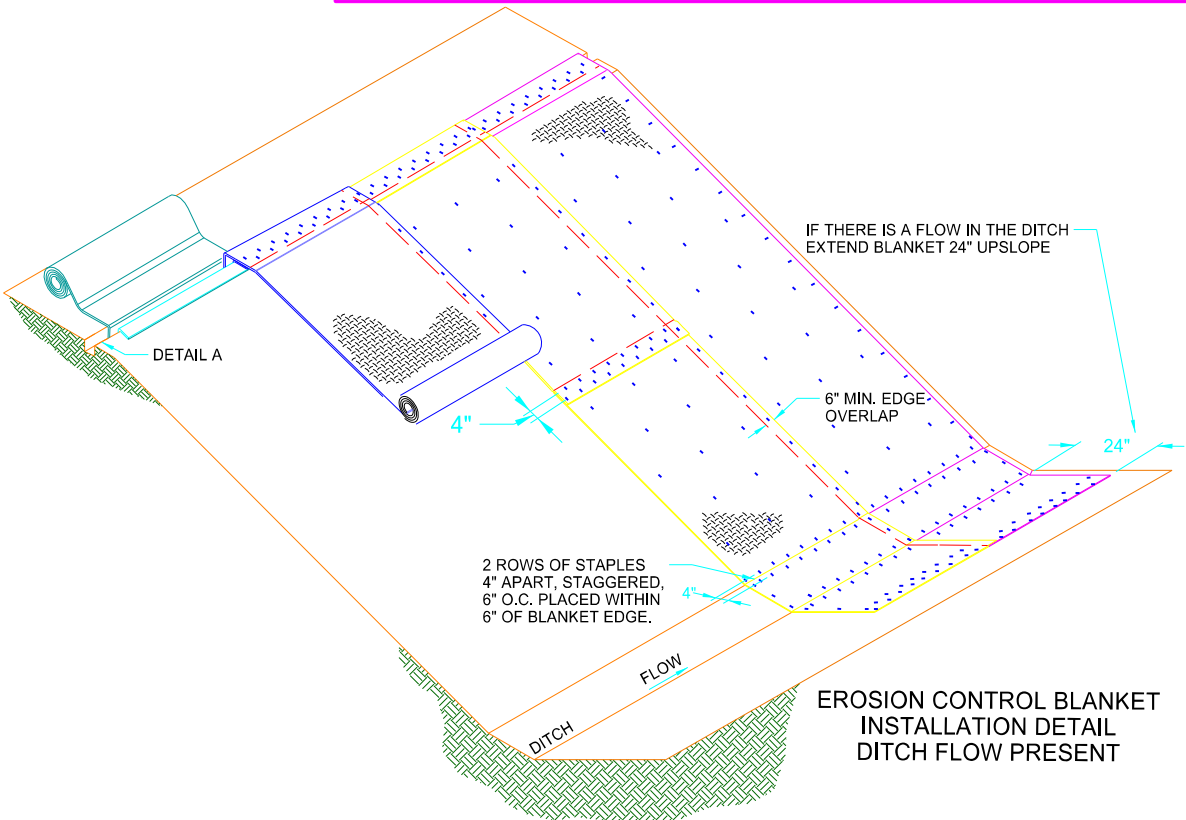


INSTALLATION STEPS:

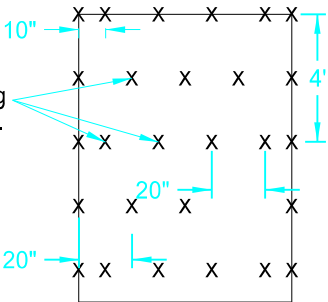
1. Prepare smooth slope per spec. section 255
2. Amend soil and seed, as specified.
3. Dig anchor trench. Set aside native soil removed from trench.
4. Secure blanket in anchor trench, staking or stapling blanket as shown.
5. Replace native soil previously removed from trench.
6. Staple blanket as shown so there are no gaps between the blanket and the soil.
Staple while unrolling blanket to minimize walking on blanket.
7. Install splices a minimum 24 inches prior to toe of slope.



NOTE:
Install Single Net Blanket with netting on top of installed blanket.

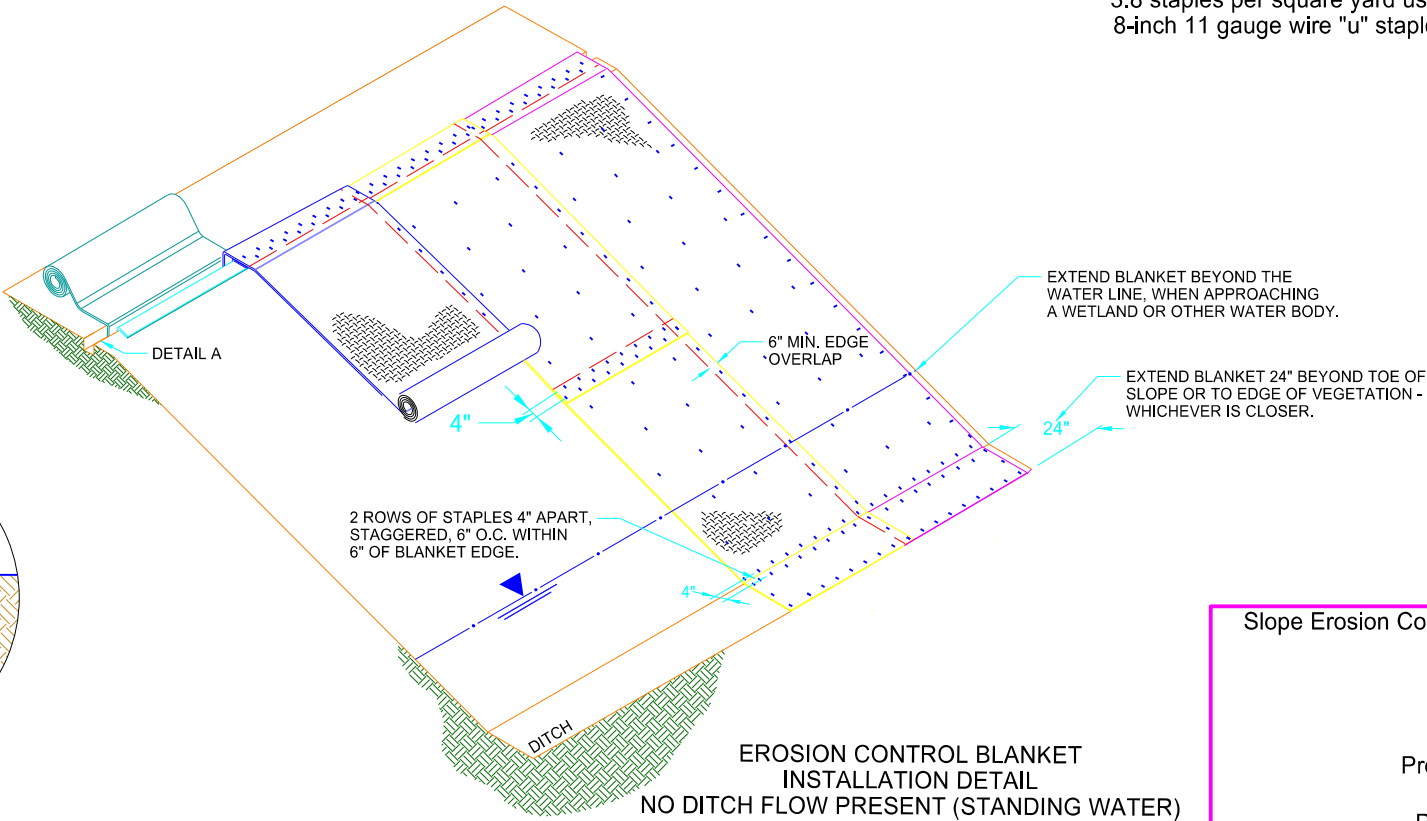


3.8 staples per square yard using
8-inch 11 gauge wire "u" staples.



STAPLE PATTERN

This document
is preliminary
and not for
construction or
implementation
purposes.



Slope Erosion Control Blanket Installation Details

Project Description

Project Location

| Item # | Cross Section PS&E pdf Sht # | Approx. Sta. From | | Approx. Sta. To | Approx. Qty | Location | Comments | Utility | Type of Facility | Approx. Maximum cut/fill | 1 State, 2 Utility | Offset | Not/Reimbursable |
|--------|---------------------------------|----------------------|----|--------------------|----------------|-----------------|---|------------------------------------|-------------------------|--------------------------------|-----------------------------|--------|------------------|
| CRW01 | 496 | 452+00. | to | 453+50. | 150 | In Right of way | Conflict - lower water line as needed for cut | Cass Rural Water District | Water Line | 6.00 | 2 | Left | Not reimbursable |
| CRW02 | 1-15 | 452+00. | to | 454+50. | 250 | In Right of way | Conflict - lower water line as needed for cut | Cass Rural Water District | Water Line | 8.00 | 2 | Right | Not reimbursable |
| MID01 | 1-15 | 452+00. | to | 454+50. | 250 | In Right of way | Conflict - lower fiber line as needed for cut | Midco | Fiber optic Line | 8.00 | 2 | Right | Not reimbursable |
| CCE | | | | | | | No known conflicts | Cass County Rural Electric | Overhed and Buried | NA | | Left | NA |
| CL01 | | | | | | | Unknown location - CenturyLink to cut when needed | CenturyLink non use - Copper Cable | Buried Copper - unknown | | | | |
| | | | | | | | | | | | | | |

Contact information for Utility Facilities with or without Conflicts

| Utility Company Name and Address | Contact Name | Phone Number | Email |
|---|------------------|----------------|--|
| Cass Rural Water District, - 131 Maple St, Kindred, ND 58051 | Brent Brinkman | (701) 428-3139 | brent.brinkman@cassruralwaterdistrict.com |
| Cass County Electric Coop. Inc., 3312 42nd St. S., Suite 200, Fargo, ND 58104 | Chuck Ames - | (701) 356-4479 | comes@kwh.com |
| Midco, 50 22nd St E, West Fargo, ND 58078 | Tony Geffre | (701) 552-2585 | Tony.geffre@midco.com |
| CenturyLink, 302 29th St N, Fargo ND 58502 - (701)-241-3141 | Charles Grummons | (701) 580-8460 | charles.Grummons@centurylink.com |

CASS COUNTY

Sec 23
T-138-N
R- 52-W

$$450 + 00$$

455+00

