

# Upper Tellico River OHV Area FY08 Sediment Reduction Activities

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# Objective:

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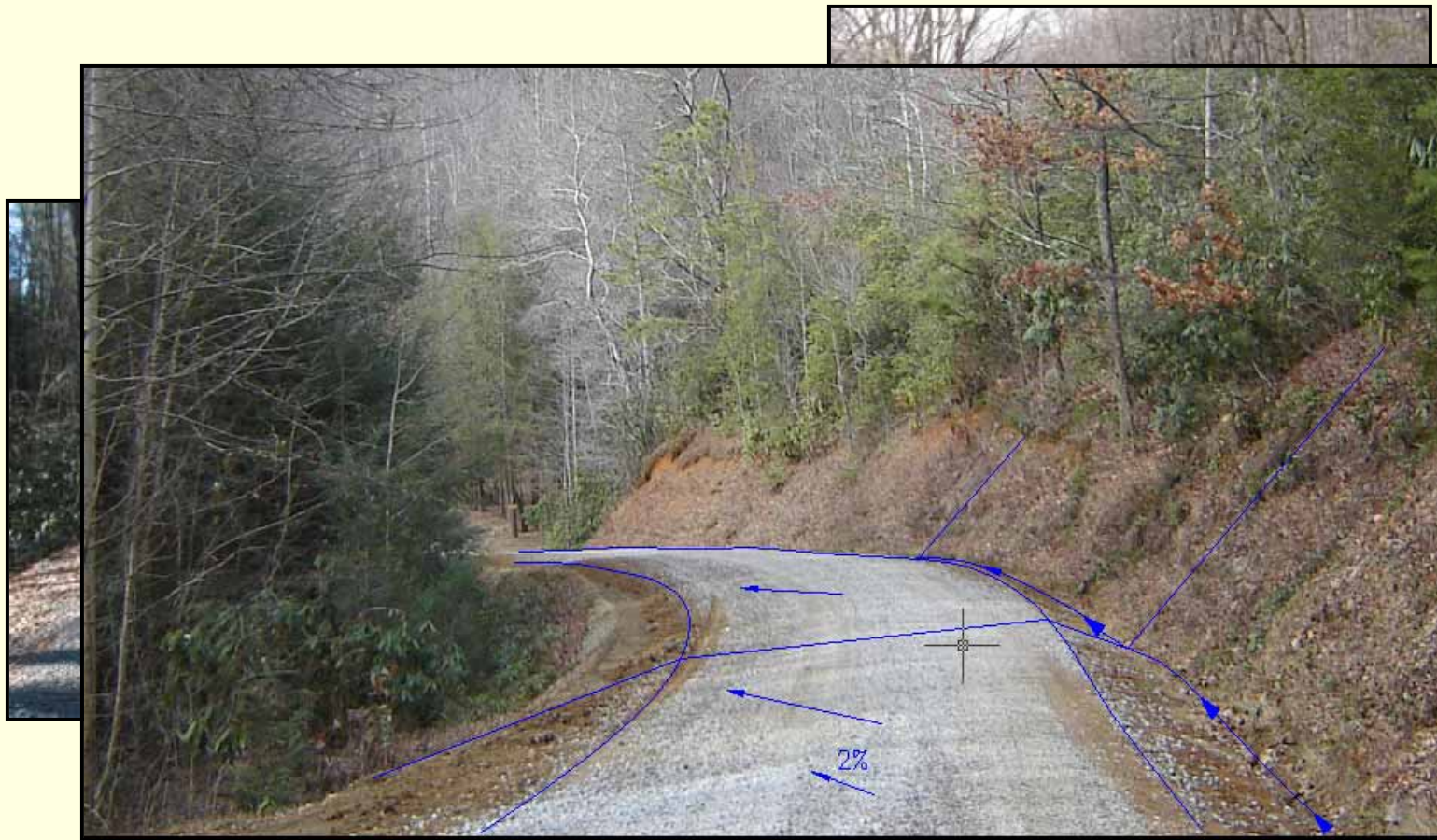
Reduce erosion and sedimentation in the Upper Tellico OHV Trail System.

1. Davis Creek Road Maintenance
2. Volunteer Weekend
3. Sedimentation Reduction Contract



# Davis Creek Road/Trail - 420-1 Road Maintenance Contract

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# Davis Creek Road/Trail - 420-1 Road Maintenance Accomplishments

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- Restored rutted prism back to the original out sloped road template.
- Removed debris blocking drainage culverts.
- Harden travel way at specific locations w/ limestone aggregate base course
- Provided user comfort across the road prism.

April 11, 12 & 13<sup>th</sup>

## Volunteer Weekend Accomplishments

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- 7.6 miles of trail maintenance

# FY 08 Sediment Reduction Contract

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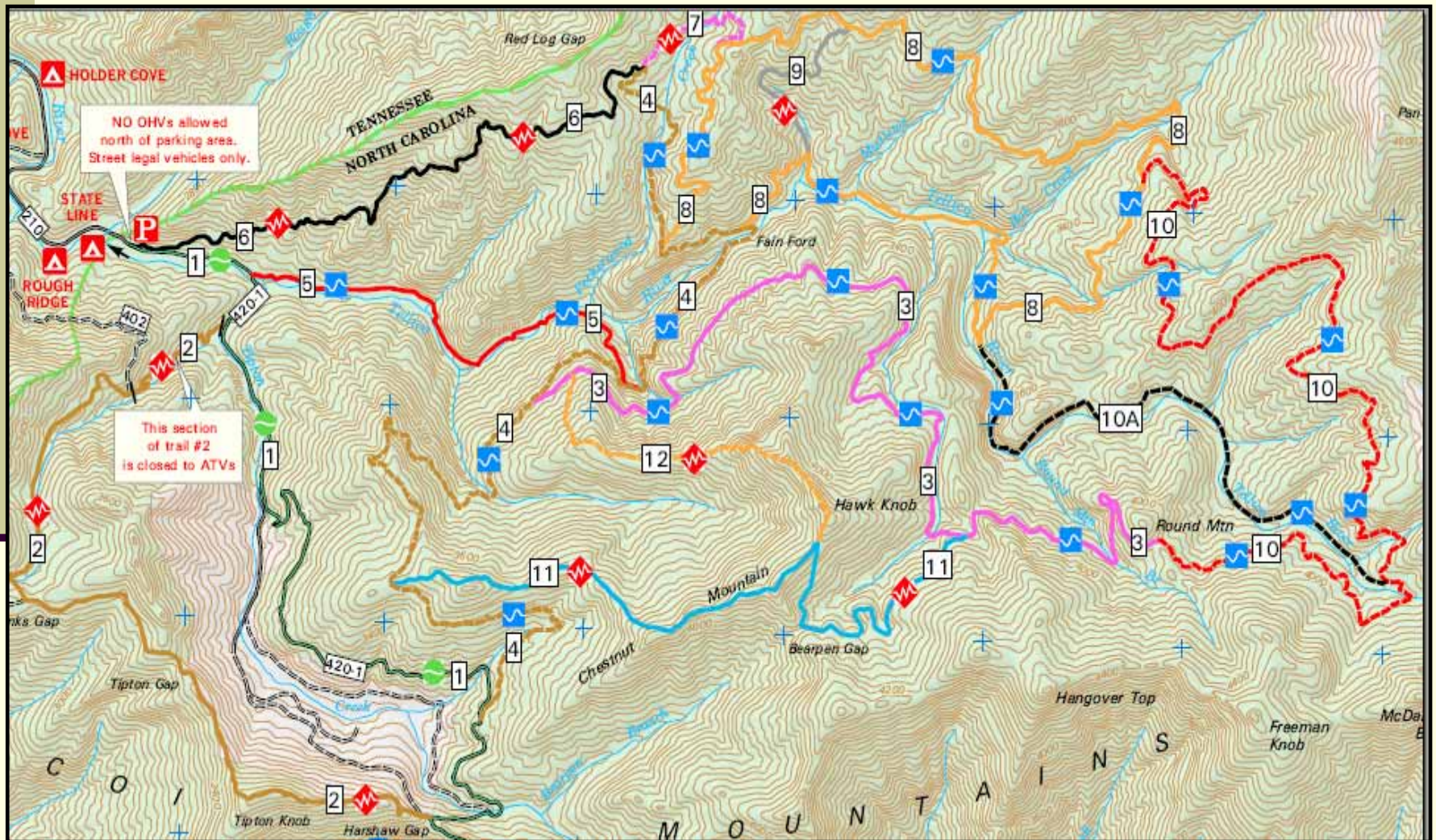
- March 31<sup>st</sup> 2008 – Project Synopsis posted on [www.fedbizopps.gov](http://www.fedbizopps.gov)
- April 17<sup>th</sup> 10:00 a.m. - Project Site Showing
- April 24<sup>th</sup> – Project Proposals Due
- May 12<sup>th</sup> – Notice to Proceed.

# Sediment Reduction Contract Trail Priorities

| Trail | # sites surveyed | Sed Enter Stream, total |         | Sediment movement |     |      |
|-------|------------------|-------------------------|---------|-------------------|-----|------|
|       |                  | # sites                 | % sites | min               | max | mean |
| 4     | 334              | 130                     | 39      | 1                 | 300 | 38   |
| 8     | 327              | 102                     | 31      | 1                 | 375 | 41   |
| 3     | 238              | 102                     | 43      | 9                 | 310 | 49   |
| 10    | 185              | 68                      | 37      | 1                 | 270 | 39   |
| 10a   | 146              | 54                      | 37      | 1                 | 185 | 52   |
| 5     | 81               | 51                      | 63      | 11                | 121 | 49   |
| 1     | 114              | 48                      | 42      | 5                 | 252 | 42   |
| 11    | 110              | 30                      | 27      | 7                 | 261 | 66   |
| 7     | 34               | 23                      | 68      | 1                 | 186 | 71   |
| 9     | 47               | 18                      | 38      | 8                 | 337 | 52   |
| 6     | 160              | 17                      | 11      | 1                 | 315 | 46   |
| 2     | 120              | 15                      | 13      | 1                 | 284 | 32   |
| 12*   | 61               | 0                       | 0       | 8                 | 300 | 88   |



# Sedimentation & Erosion Reduction Priorities





# FY08 Trail Sediment Reduction Activities

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## Trails 420-1, 420-5

- Add culverts and ditches to address wet weather springs.
- Construct & reconstruct rolling drainage dips.
- Harden rolling dips w/ limestone base aggregate.
- Clean existing sediment traps, culvert inlets/outlets.
- Seed & mulch sediment traps

## Trails 420-2, 420-7, 420-8, 420-9

- Reconstruct dips, add water bars & sediment traps.
- Clean existing sediment traps, culvert inlets/outlets.
- Seed & mulch road prism & sediment traps

## Trails 420-3, 420-4, 420-6, 420-10, 420-10a, 420-11, 420-12

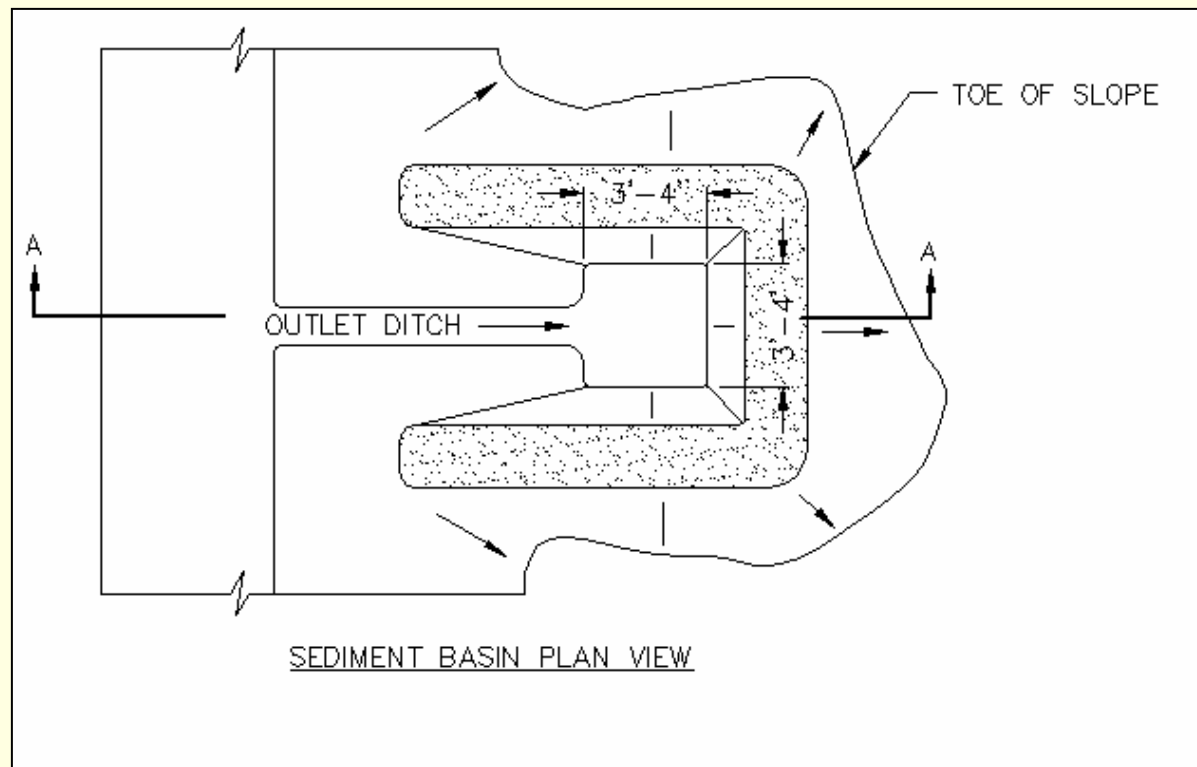
- Reconstruct / construct water bars & sediment traps.
- Clean existing sediment traps, culvert inlets/outlets.
- Seed & mulch sediment traps

# Sediment Basin Maintenance

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# Sediment Trap/Basin Detail



# Rolling Dip / Water Bar Reconstruction





# FY 08 Upper Tellico Sediment Reduction Contract

**NATIONAL FORESTS IN NORTH CAROLINA  
TUSQUITEE RANGER DISTRICT  
CHEROKEE COUNTY**

FP 03 - SUPPLEMENTAL SPECIFICATIONS

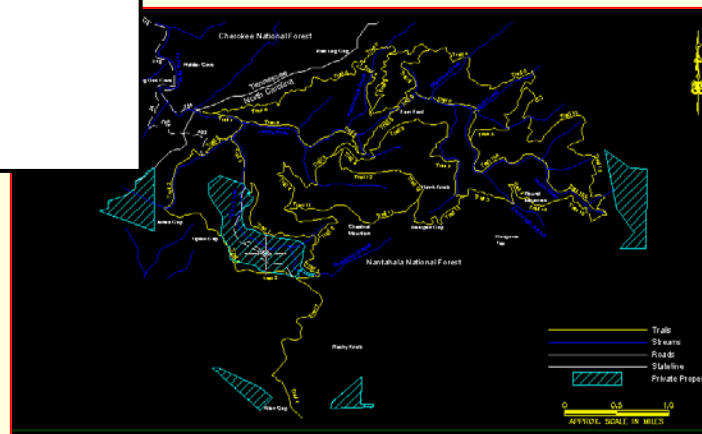
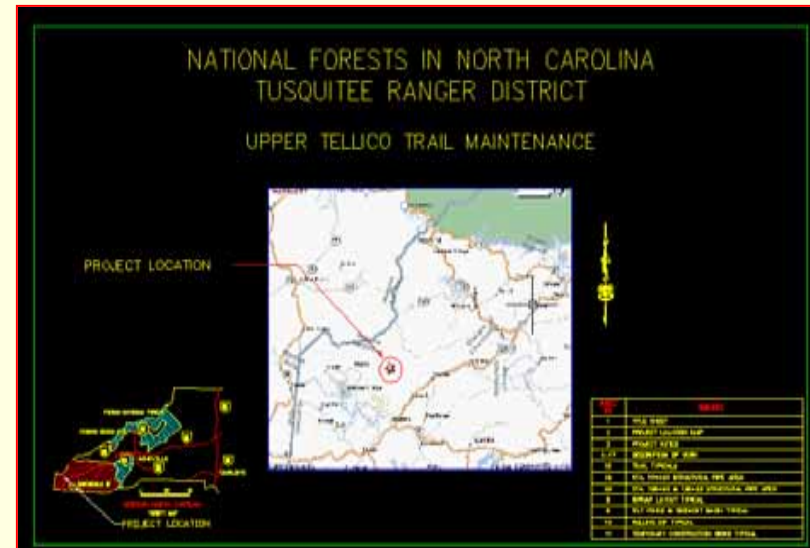
for

Upper Tellico OHV

Trail Maintenance

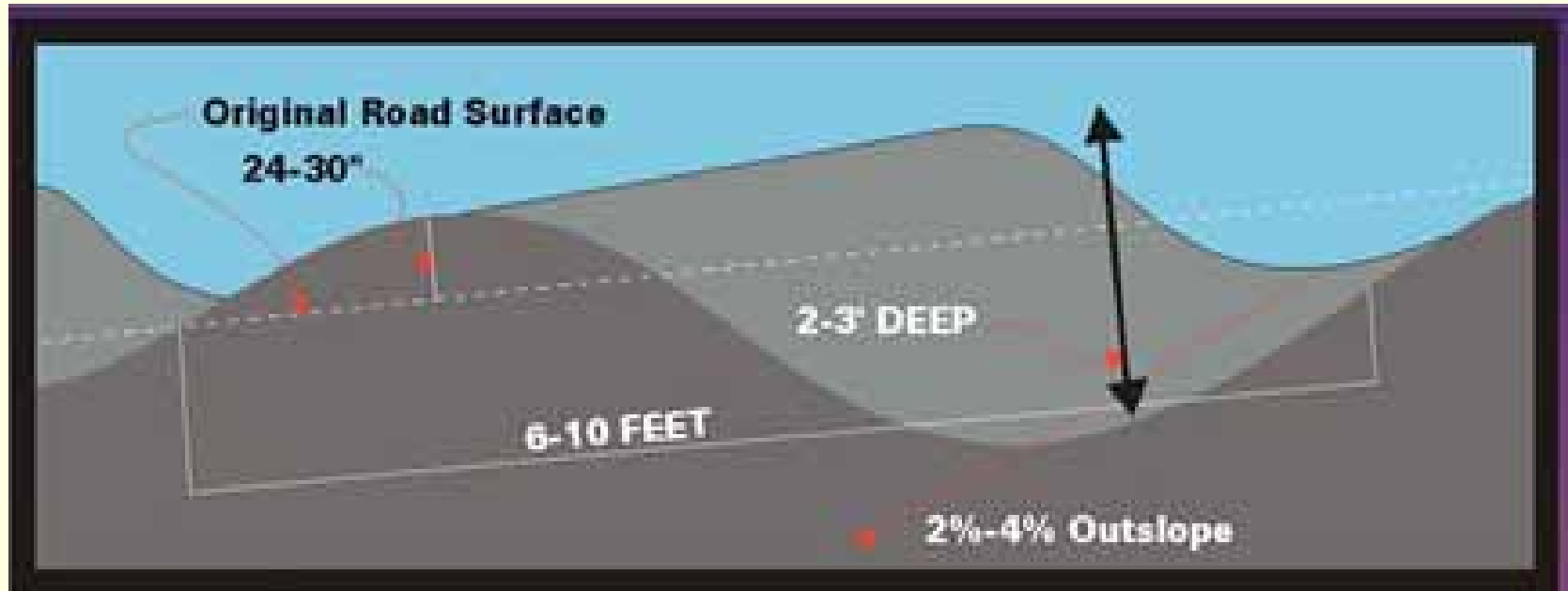
April - 2008

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# Water Bar / Trail Dip Construction Detail

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# Trail Activities

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## Water Bar Spacing

### Road/Trail Grade %

### Spacing Distance

0-5

75

6-10

60

11-15

45

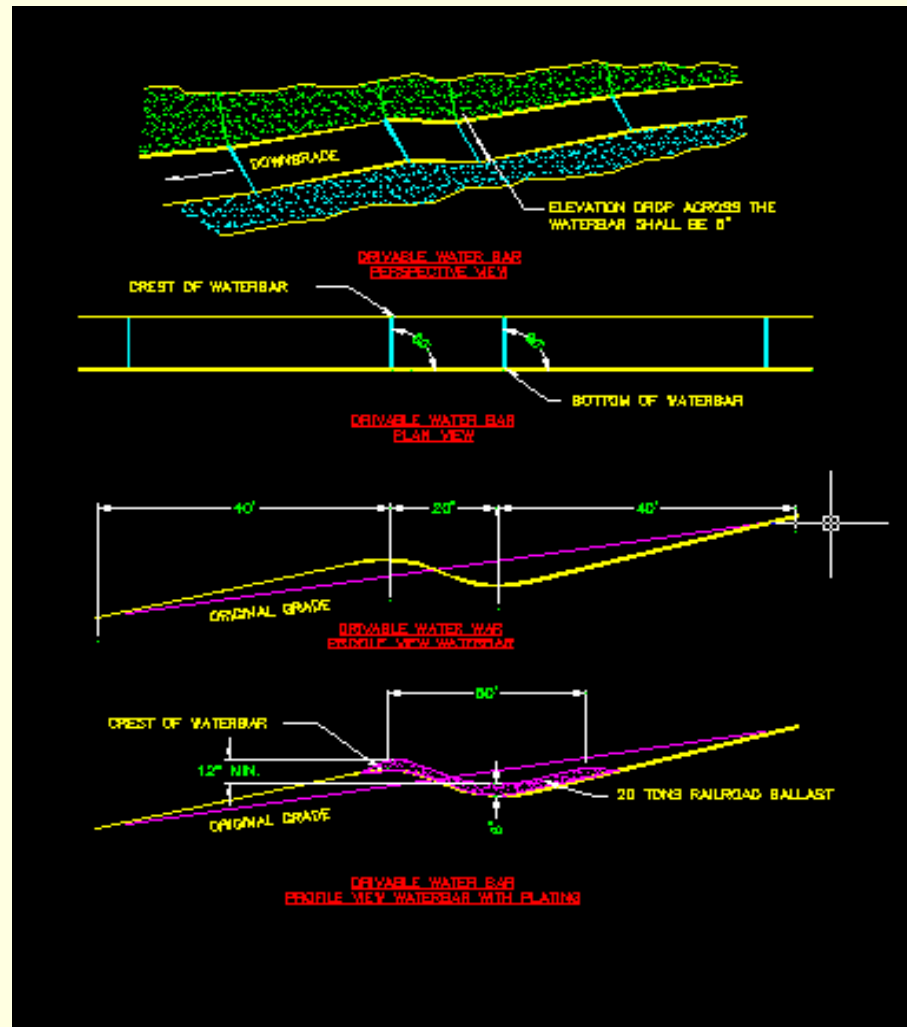
16-20

35

21-30

30

# Rolling Dip Typical

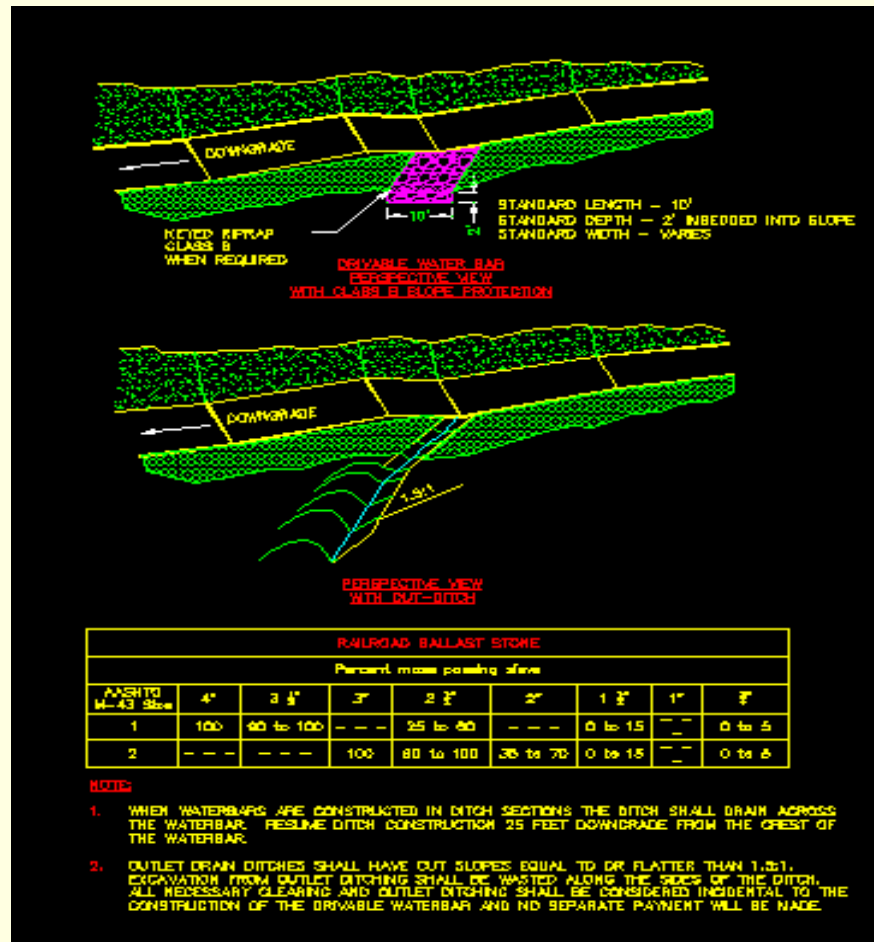




# Culvert Cleaning



# Lead Off Ditches Typical



# Goals:

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Reduce the number of sites where sediment is entering stream channel.

## Focus Points

- Temporary Seeding Trails 2,7, 8 (lower) & 9
- Correct failing drainage structures, focusing near streams & tributaries.
- Increase frequency of trail runoff drainage structures.



# Questions