

Monitoring Data Record

Project Title: R-3415 NC 67 Widening COE Action ID: 200520314
Stream Name: UT Lineberry Creek (Site 1) DWQ Number: 05-0061
City, County and other Location Information: NC 67 4.4 miles west of Boonville and just west of Raccoon Run Road (Sta. 81+00 -L- RT.); Yadkin county
Date Construction Completed: Streambank repairs completed in June 2010 and final planting completed in January 2011. Monitoring Year: (2) of 3
Ecoregion: _____ 8 digit HUC unit 03040101
USGS Quad Name and Coordinates: N 36 14' 39", W 80 47' 7"

Rosgen Classification: _____

Length of Project: 325 feet Urban or Rural: Rural Watershed Size: _____
Monitoring DATA collected by: M. Green and J. Young Date: 7/24/12

Applicant Information:

Name: NCDOT Roadside Environmental Unit
Address: 1425 Rock Quarry Road Raleigh, NC 27610
Telephone Number: (919) 861-3772 Email address: mlgreen@ncdot.gov

Consultant Information:

Name: _____
Address: _____
Telephone Number: _____ Email address: _____

Project Status: Complete

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level 1

Permit states: The permittee shall visually monitor the vegetative plantings to assess and ensure complete stabilization of the mitigation stream segments. The monitoring shall be conducted annually for a minimum of 3 years after final planting. Photo documentation should be utilized to document the success of the riparian vegetation and submitted to DWQ in a final report. After 3 years a site visit shall be conducted by DWQ to "close out" the mitigation site.

Section 1. PHOTO REFERENCE SITES

(Monitoring at all levels must complete this section)

Total number of reference photo locations at this site: 4 photos were taken from 2 photo point locations along the channel and 1 overview photo was taken from the top of the fill slope.

Dates reference photos have been taken at this site: 8/16/11, 7/24/12

Individual from whom additional photos can be obtained (name, address, phone): _____

Other Information relative to site photo reference: A site map is included with this report showing the photo point locations.

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

Section 2. PLANT SURVIVAL

Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):

Estimated causes, and proposed/required remedial action: _____

ADDITIONAL COMMENTS: Planted vegetation noted surviving onsite included black willow, silky dogwood, tulip poplar, sycamore, and river birch. Other vegetation noted onsite included fennel, briars, goldenrod, sumac, mimosa, alder, and various grasses.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

UT Lineberry Creek (Site 1) is experiencing some areas of instability for the Year 2 monitoring evaluation. See the areas noted below. NCDOT plans to install live stakes along the eroded banks to help stabilize these areas. NCDOT will continue to monitor the channel stability at this stream relocation.

Date Inspected	Station Number	Station Number	Station Number	Station Number	Station Number
7/24/12	80+50-L- RT. (additional photo)	80+00-L- RT. (PP#2 downstream photo)	79+60-L- RT. (additional photo)		
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?	Headcut has formed b/t PP#1 and PP#2				
Bank or scour erosion present?		Bank erosion along the right bank	Bank erosion along left bank		
Other problems noted?					

Section 4. DEBIT LEDGER

The entire UT to Lineberry Creek (Site 1) stream mitigation site was used for the R-3415 project to compensate for unavoidable stream impacts.

UT LINEBERRY CREEK (SITE 1)



PP#1 Upstream



PP#1 Downstream



PP#2 Upstream



PP#2 Downstream



Overview Photo



Headcut @ Sta. 80+50-L- RT.

July 2012

UT LINEBERRY CREEK (SITE 1)



Bank erosion along right bank @ Sta. 80+00-L- RT.



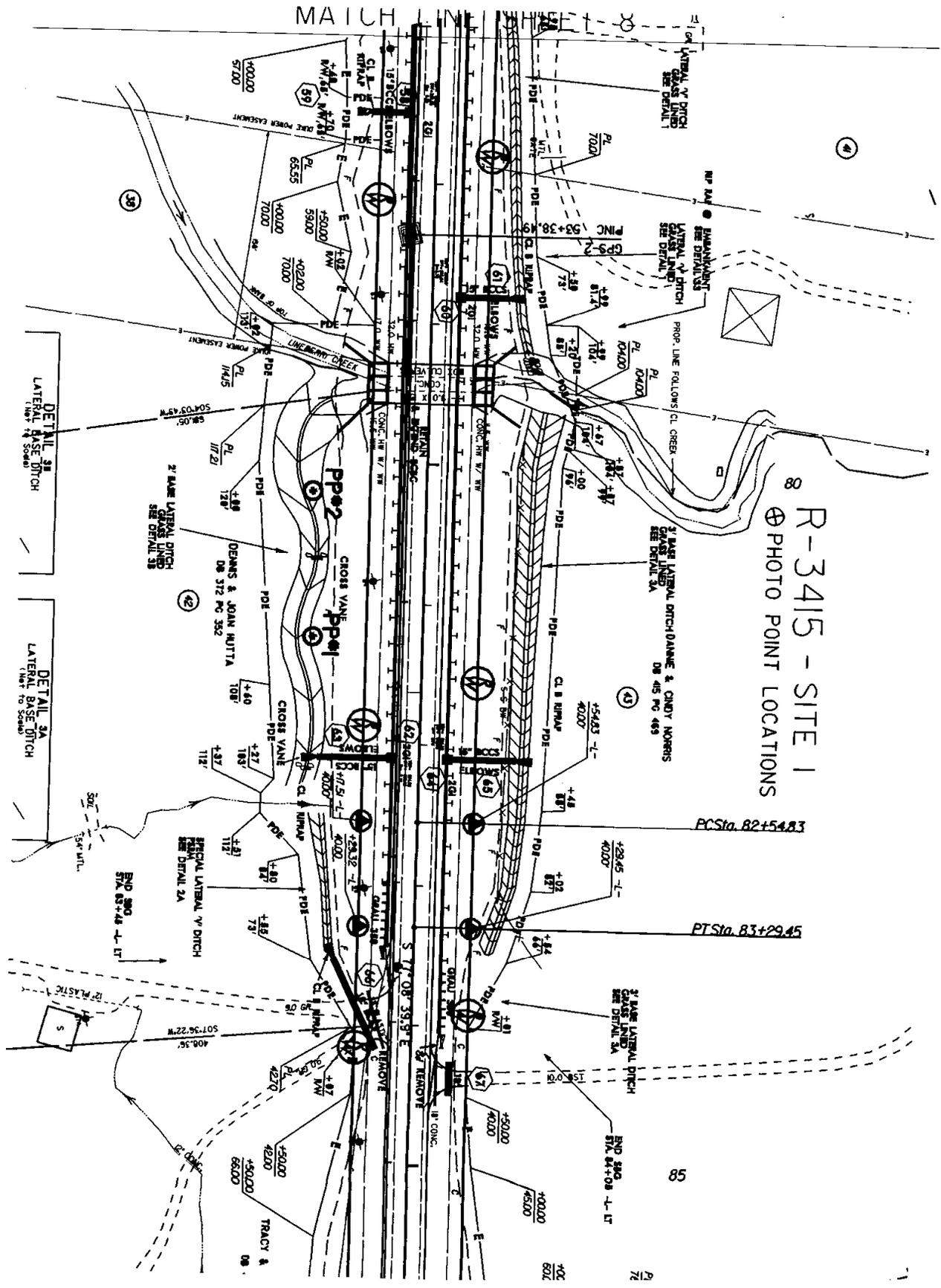
Crossvane downstream of PP#2



Bank erosion along left bank @ Sta. 79+60-L- RT.

July 2012

MATCH



R-3415 - SITE 1
 PHOTO POINT LOCATIONS

DETAIL 3B
 LATERAL BASE DITCH
 (INSET TO SHEET 24)

DETAIL 3A
 LATERAL BASE DITCH
 (INSET TO SHEET 24)

85

P 7/2