

North Carolina Department of Transportation  
Erosion and Sedimentation Control/Stormwater Report  
Roadside Environmental Unit

Report Type

- Routine       PCN  
 ICA             ECPAR  
 ICA Ex 1st  
 ICA Ex 2nd  
 CICA - SWO

**ICA/ECPAR**  
**Immediate Corrective Action/Erosion  
 Control Plan Audit Request**

*This project does not comply with the North Carolina Erosion and Sedimentation Control laws. Immediate Corrective Action is needed to resolve the situation to full compliance with the Law: (T15A: 04B.0000). Deficiencies exist between the current phase of grading and the erosion control plan for this project. An erosion control plan review involving project personnel, the erosion control plan designer, REU erosion control design staff and the REU Field Operation Engineer is requested to resolve the situation.*

Project Information

Project Number: 09-07920-01A      Date of Inspection: 02/01/2013      Evaluator: Jerry C Threlkeld  
 Location: Lincoln County Maintenance Office  
 Project Type: Vertical Construction      County: LINCOLN      Division: 12      TIP Number:  
 Length of Project: 0.10      Disturbed Acreage: 2      HQW Zone: N      Trout Zone: N

Project Evaluation

Length	Section Description	Installation of BMP's	Maintenance of BMP's	Effectiveness of BMP's	Plan Implementation	Overall Project Evaluation
0.10	The Entire Project	6	6	6	6	6
Grading Scale: 10 = Excellent    9 = V. Good    8 = Good    7 = Fair <b>6-0 = Immediate Corrective Action Needed</b>						

ICA/ECPAR Comments:

Request erosion plan revision for infiltration/skimmer basin on west side of project. Recommend infiltration basin adjacent to parking lot be converted into a skimmer basin.  
 This ICA is being issued due to failure to install erosion control measures per plan resulting in sediment loss off site. The offsite sediment loss will be reviewed by DENR Land Quality section to determine if recovery of sediment is required. This will be done prior to next site review on February 7th.

Remarks and Recommendations:

We were not notified this project was active and do not have plans. Found a set of plans with the equipment department. This inspection is in response to a complaint from DENR Land Quality Section.

Area adjacent to gas pumps

- Erosion control measures was not installed according to plans
  - Due to amount of site runoff from paved areas and construction site runoff sediment was lost off site
- Skimmer basin project west is not installed per DOT design specs
  - the skimmer is buried under the mud

Corrective Actions

- Install erosion control measure adjacent to the parking lot
- Recommend infiltration basin be installed as a standard skimmer basin according to DOT design standards
- Install silt fence per plans to enclose the basin and divert all construction site runoff into the basin
- Silt fence is supposed to enclose the fill slope and tie into the retaining wall
- Backside of retaining wall
  - seed and mulch all the bare areas on the backside of wall
- Project West
  - Install all temporary diversion ditches per plan
- Skimmer basin
  - Does not meet standard DOT specifications
  - Install dissipater pad in basin where concrete pipe enters
  - Basin needs maintenance because the skimmer is buried
  - Basin needs to be refurbished and constructed properly to bring it to DOT standards
  - Seed and mat the interior slopes and berms of basin to prevent mulch from clogging the skimmer
- Drop inlet boxes need to have TYPE C inlet protection around them to keep sediment out of the pipes
- It is recommended erosion control plan be revised to bring the basins to DOT spec

This project will be reviewed again no later than February 7th to determine if appropriate corrective measures are taken. If you need any guidance please contact the Roadside Environmental Field Operations Office.

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**ICA EX 1st/ECPAR**

**Immediate Corrective Action Extension  
(First Issuance)/Erosion Control Plan  
Audit Request**

This project does not comply with the North Carolina Erosion and Sedimentation Control laws. Immediate Corrective Action is needed to resolve the situation to full compliance with the Law: (T15A: 04B.0000). Deficiencies exist between the current phase of grading and the erosion control plan for this project. An erosion control plan review involving project personnel, the erosion control plan designer, REU erosion control design staff and the REU Field Operation Engineer is requested to resolve the situation.

Project Information

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 Location: Lincoln County Maintenance Office  
 Project Type: Vertical Construction      County: LINCOLN      Division: 12      TIP Number:  
 Length of Project: 0.10      Disturbed Acreage: 2      HQW Zone: N      Trout Zone: N

Project Evaluation

Length	Section Description	Installation of BMP's	Maintenance of BMP's	Effectiveness of BMP's	Plan Implementation	Overall Project Evaluation
0.10	The Entire Project	7	7	6	7	7
Grading Scale: 10 = Excellent    9 = V. Good    8 = Good    7 = Fair <b>6-0 = Immediate Corrective Action Needed</b>						

ICA EX 1st/ECPAR Comments:

Request erosion control plan revision of area on west side of project. Recommend installing a measure to provide storage for the amount of runoff from project and areas contributing to the project.

Remarks and Recommendations:

This inspection was the follow up inspection in response to the sediment loss at the equipment shop being built at the Lincoln County Maintenance Yard. The follow up visit was conducted by myself, Neil Trivette, Johnie Marion, Steve Hartley and the grading contractor.

The ICA will be extended until the erosion control plans for the project are adequate. Area adjacent to the gas pumps still has sediment loss potential if a heavy rain were to occur.

-Recommendations by Ryan Kormanik with DENR were installed on site

Area Adjacent to Gas Pumps (previous sediment loss)

- The different stages of the project were not taken into consideration on the erosion control plans and all we have is the final design.
- The area used for the calculations of the runoff adjacent to the gas pumps lacks consideration for runoff from the gas pump/maintenance yard as well as runoff from the project
- The temporary silt ditch on the current plans near gas pumps is not installed
  - This silt ditch would not be effective at this stage of the project because the grade is sloping back toward the main road
  - This grade is adding additional area that should be taken in consideration for storage at area adjacent to gas pumps

Corrective Actions

- Backside of retaining wall needs to be seeded and mulched and outside silt fence
  - If not able to seed and mulch then area needs to at least be mulched temporarily
  - Soil stabilization time frames have been exceeded

-Seed and mulch area where sediment was lost off project

Plans

- Review plans and design according to site conditions.
- Have plans approved by the Roadside Environmental Unit
- Install measures according to plans and according to NCDOT specifications