

11:55:35

OCA PAD INITIATION - PROJECT HEADER INFORMATION

02/10/88

Active

Project #: E-20-623
Center # : R6443-0A0

Cost share #:
Center shr #:

Rev #: 0
OCA file #:
Work type : RES
Document : AGR
Contract entity: GTRC

Contract#: AGR DTD 871101
Prime #:

Mod #:

Subprojects ? : N
Main project #:

Project unit: CE
Project director(s):
WILLIAMS N D CE

Unit code: 02.010.116

Sponsor/division names: NICOLON, INC.
Sponsor/division codes: 263

/
/ 004

Award period: 871101 to 880331 (performance) 880430 (reports)

Sponsor amount	New this change	Total to date
Contract value	4,629.00	4,629.00
Funded	4,629.00	4,629.00
Cost sharing amount		0.00

Does subcontracting plan apply ? : N

Title: DEVELOPMENT OF DESIGN MANUAL FOR REINFORCED EMBANKMENTS OVER SOFT SUBGRADES

PROJECT ADMINISTRATION DATA

OCA contact: John B. Schonk

894-4820

Sponsor technical contact

Sponsor issuing office

GARY WILLIBEY
(404)447-6272

NICOLON CORPORATION

3150 HOLCOMB BRIDGE ROAD, SUITE 300
NORCROSS, GA 30071

SAME

Security class (U,C,S,TS) : U
Defense priority rating :
Equipment title vests with:

Sponsor X

ONR resident rep. is ACO (Y/N): N
supplemental sheet
GIT

Administrative comments -
PROJECT INITIATION



GEORGIA INSTITUTE OF TECHNOLOGY
OFFICE OF CONTRACT ADMINISTRATION

NOTICE OF PROJECT CLOSEOUT

Closeout Notice Date 01/18/91

Project No. E-20-623 _____ Center No. R6443-OA0 _____

Project Director WILLIAMS N D _____ School/Lab CIVIL ENGR _____

Sponsor NICOLON, INC./ _____

Contract/Grant No. AGR DTD 871101 _____ Contract Entity GTRC

Prime Contract No. _____

Title DEVELOPMENT OF DESIGN MANUAL FOR REINFORCED EMBANKMENTS OVER SOFT SUBGRAD

Effective Completion Date 880331 (Performance) 880430 (Reports)

Closeout Actions Required:	Y/N	Date Submitted
Final Invoice or Copy of Final Invoice	Y	_____
Final Report of Inventions and/or Subcontracts	N	_____
Government Property Inventory & Related Certificate	N	_____
Classified Material Certificate	N	_____
Release and Assignment	N	_____
Other _____	N	_____
Comments _____		

Subproject Under Main Project No. _____

Continues Project No. _____

Distribution Required:

Project Director	Y
Administrative Network Representative	Y
GTRI Accounting/Grants and Contracts	Y
Procurement/Supply Services	Y
Research Property Management	Y
Research Security Services	N
Reports Coordinator (OCA)	Y
GTRC	Y
Project File	Y
Other _____	N
_____	N

DESIGN CONSIDERATIONS:

GEOSYNTHETIC REINFORCED EMBANKMENTS OVER SOFT SOILS

DRAFT FINAL REPORT

Prepared By:

Dr. Robert C. Bachus
Ms. Pamela Langston
and
Dr. Neil D. Williams

School of Civil Engineering
Georgia Institute of Technology
Atlanta GA 30332

Submitted to:

Mr. Gary Willibey
Nicolon, Inc.

September 22, 1988

ABSTRACT

This paper provides a detailed overview of the design process associated with synthetically reinforced embankments on weak foundations. The design is outlined from project inception through material/project specification. Design procedures are reviewed and an example problem is performed throughout the process to illustrate how the methods are applied.

The design procedure investigates all modes of failure, including bearing capacity, slope stability, elastic deformation, lateral sliding, reinforcement pullout, and creep. Considerable emphasis is given to stability analysis, which typically governs the design. Several limit equilibrium methods for slope stability are presented. The modifications required to account for a geosynthetic reinforcement inclusion are outlined. Factors of safety calculated by each limit equilibrium method modified to include reinforcement are provided, and comparisons are made for the methods evaluated.

Other factors important to design are reviewed, including seams construction, fabric testing procedures, quality assurance needs, and monitoring programs. This paper is intended to be a working tool for all persons who specify geosynthetics as reinforcement members in embankments constructed on soft soils.

OFFICE OF CONTRACT ADMINISTRATION
GEORGIA INSTITUTE OF TECHNOLOGY
ATLANTA, GEORGIA 30332

MEMO

Mr. Robert C. Bachus
Civil Engineering

DATE September 30, 1988
SUBJECT Final Report for
E-20-623

We have received the final invoice for Project Number E-20-623. However, our records indicate that the final report has not been submitted.

If the report was sent directly to the sponsor, please send a copy to the OCA Reports Coordinator so that we can close the project.

Please Advise.

cc. Tammy Fennell

OCA / CSD

10-24

Sponsor will deliver draft report to me 10/25 for final editing. I will hopefully be able to complete within 1 week of receipt.

72280