



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

July 31, 2003

MEMO TO: Mr. Jay Bennett, PE, State Roadway Design Engineer
Mr. J. Victor Barbour, PE, State Design Services Engineer

FROM: Cynthia B. Perry, PE *Cynthia B. Perry*
Plans and Standards Engineer

SUBJECT: Combining State Highway Projects

This is a guide for combining projects into a project with a single WBS Construction Element if the distribution of final right of way plans has occurred on a part or the entire combined project.

The basic assembly of plans for two or more projects into a combined project is as follows:

- A. Sheet 1 - Title sheet for the Combined Project (See Attachment no. 1)
 1. Show the contract number and all TIP numbers from the combined projects across the left end of the sheet.
 2. Identify the right of way project limits on the plan layout by TIP numbers and stations. Label each TIP number as a Part (Part I, Part II, Part III, etc.)
 3. A combined length of Roadway, a combined length of Structure, and a total combined project length are needed.
 4. The Project Identification Block in the top right corner of the sheet contains information as follows:
 - a. State Project Reference No. – All TIP Numbers
 - b. State Project No. - P.E., R/W, Utility and Construction WBS Elements for all TIP numbers.

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
DESIGN SERVICES UNIT
1591 MAIL SERVICE CENTER
RALEIGH NC 27699-1591

TELEPHONE: 919-250-4128
FAX: 919-250-4119

WEBSITE: WWW.DOH.DOT.STATE.NC.US

LOCATION:
CENTURY CENTER COMPLEX
ENTRANCE B-2
1020 BIRCH RIDGE DRIVE
RALEIGH NC

- c. F.A. Project Number - P.E., R/W, Utility and Construction numbers as applicable to each TIP number.
 - d. Description - Describe as P.E., R/W, Utility and Construction with each TIP number
- B. Sheet 1-A of Combined Project (See Attachment no. 2)
- 1. Index of Sheets
 - 2. General Notes
 - 3. List of Standards
- C. Sheet 2 of Combined Project
- 1. Conventional Symbols
- D. Sheet 3 of Combined Project
- 1. Summary of Quantities

The WBS elements, FA Project numbers and TIP designation are shown on all of the title sheets. However, the combined title sheet is the only one on which the contract number is shown.

The individual parts (TIP projects) are placed behind the combined project sheets. With a few exceptions, each individual TIP is assembled as if it was an independent project rather than a part of the combined project. These exceptions are that the individual parts (TIP projects) do NOT require the index of sheets, general notes, list of standards, conventional symbols or summary of quantities (Number 3 sheet).

The summary sheet totals from other parts shall be listed under the respective summary totals on Part I. These totals must be added and shown as a grand total. This grand total is the figure shown on the SUMMARY OF QUANTITIES (See Attachment no. 3). Only one (1) estimate is prepared for a combined project with a single WBS Construction element.

It may be necessary place all parts of some plans that supplement the Roadway Design plans into Part I of the combined project. An example of this is the need for a temporary traffic phase to operate continuously throughout the various parts of a combined project. This requires placing the entire Traffic Control package in Part I.

Mr. Jay Bennett, PE, et al.
July 31, 2003
Page 3

A new Calculation of Quantities sheet no. 1 is needed. This sheet reflects information as it should be shown for the combined project. Label each TIP package as a part (Part I, Part II, etc.) over the heading of sheet one for each individual part. Stack the parts in ascending order. Place sheet one for the combined project on top of the stack and fasten it all together. Pay item totals from other parts shall be listed under the totals on Part I.

These totals must be added and shown as a grand total. The grand total is the figure shown in the Summary of Quantities (Number 3 sheet). Show TIP numbers for projects numbers on the applicable parts.

If you have any questions or need additional information, please contact me at (919) 250-4128.

CBP/jgl

Attachments

cc: Mr. Scott D. Blevins, PE
Mr. Randy Garris, PE
Mr. Andy Gay, PE
Mr. Ron Davenport, PE

ARCHIVED
FOR REFERENCE ONLY

See Sheet 1-A For Index of Sheets

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

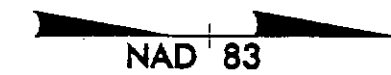
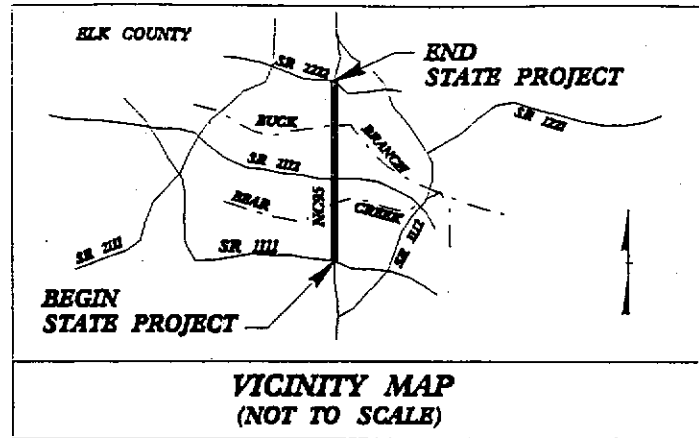
EXAMPLE

ELK COUNTY

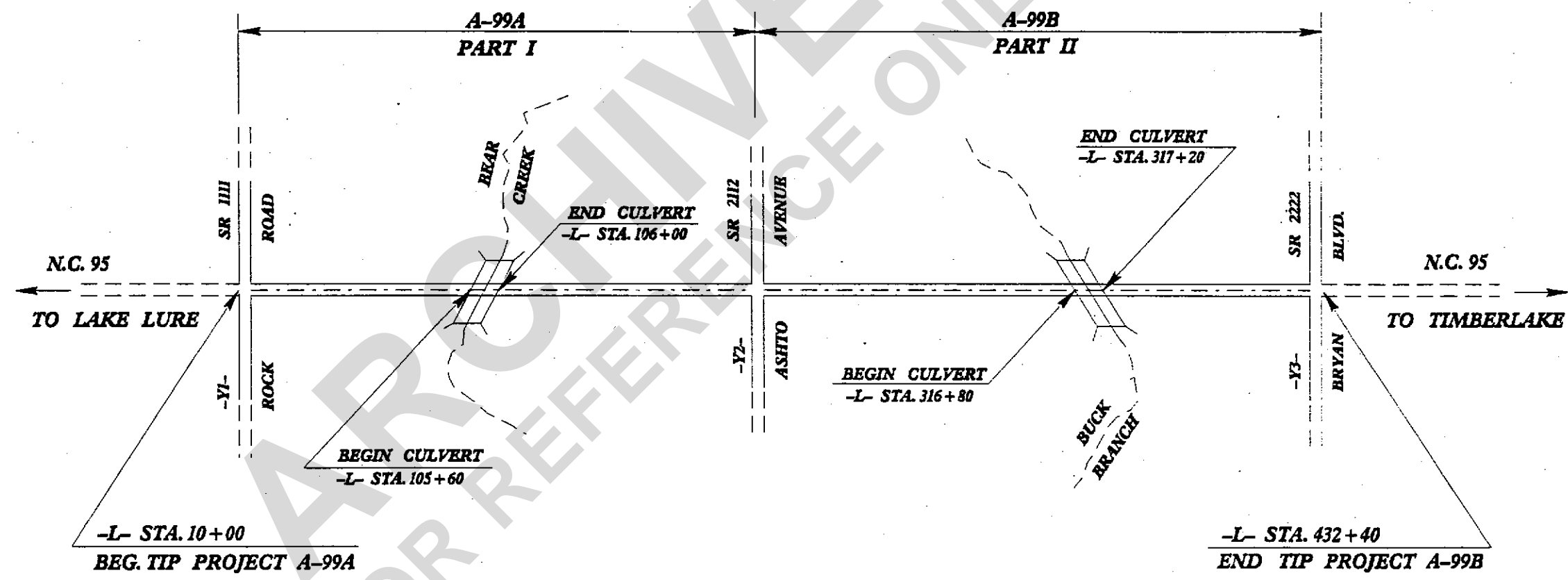
LOCATION: NC 95 FROM SR 1111 TO SR 2222

TYPE OF WORK: GRADING, PAVING, DRAINAGE, SIGNING
AND STRUCTURES

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	A-99A/A-99B	1	
LINE ITEM	F.A.P. NUMBER	DESCRIPTION	
22222.2.1	NH-22-2(2)	A-99A (P.E.)	
33333.3.1	NH-33-3(3)	A-99B (P.E.)	
44444.4.2	NH-44-4(4)	A-99A (RW & UTILITY)	
55555.5.2	NH-55-5(5)	A-99B (RW & UTILITY)	
66666.6.6	NH-66-6(6)	A-99A/A-99B (CONST.)	



CONTRACT NO: C000000 TIP PROJECTS: A-99A /A-99B



PROJECT LENGTH

LENGTH ROADWAY TIP PROJECTS A-99A /A-99B	= 7.985 MI.
LENGTH STRUCTURE TIP PROJECTS A-99A /A-99B	= 0.015 MI.
TOTAL LENGTH OF TIP PROJECTS A-99A /A-99B	= 8.000 MI.

Prepared in the Office of:
DIVISION OF HIGHWAYS
1880 Block Ridge Dr., Raleigh, NC 27618
200 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: (A-99A): 4-12-00
RIGHT OF WAY DATE: (A-99B): 6-28-00
LETTING DATE: JANUARY 20, 2004

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

STATE DESIGN ENGINEER
DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED
DIVISION ADMINISTRATOR

