

09\_08/199

TIP PROJECT: BR-0070

CONTRACT: C204769

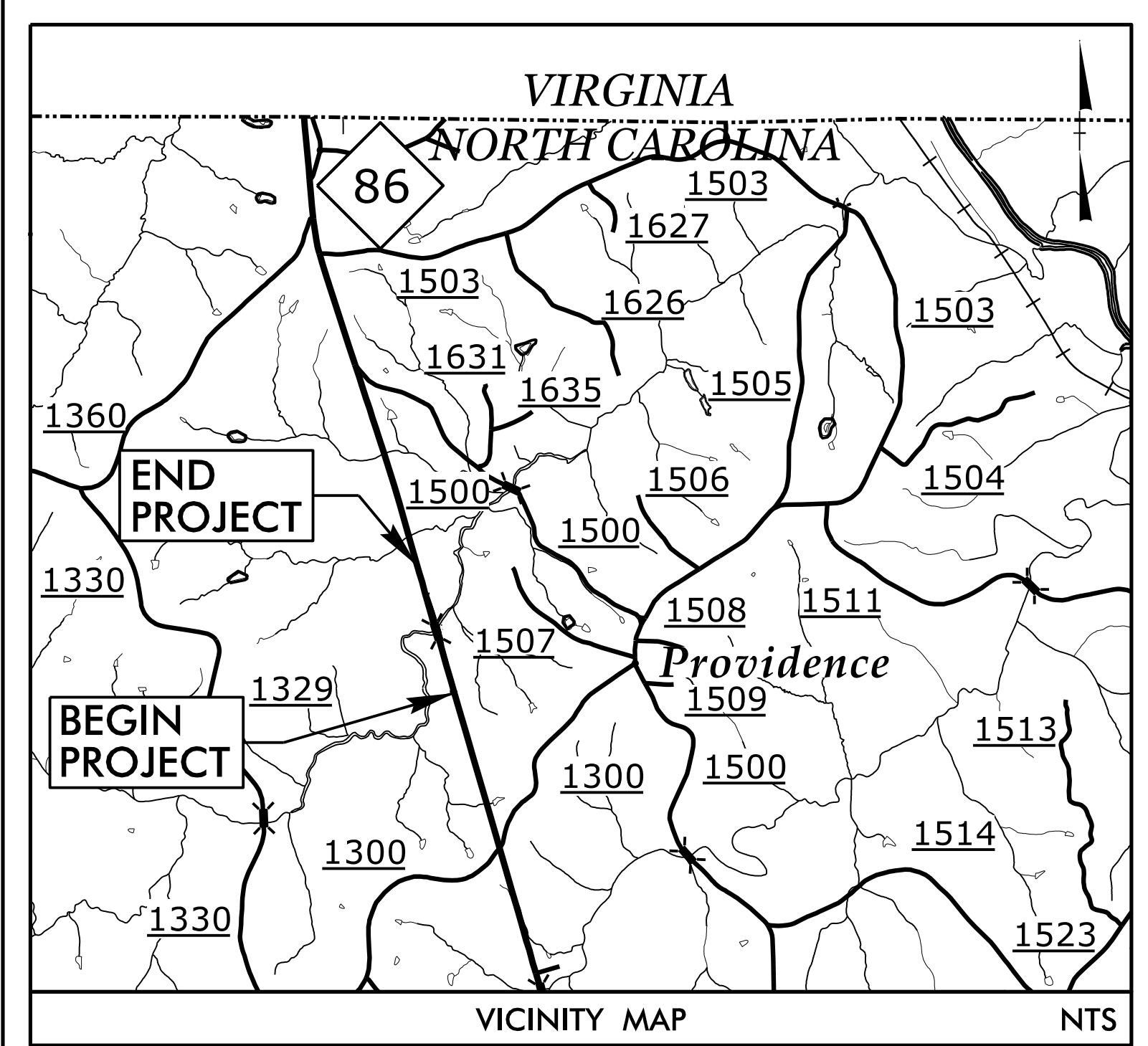
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

CASWELL COUNTY

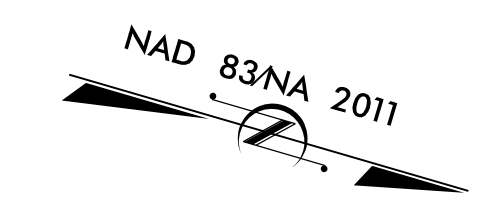
LOCATION: REPLACE BRIDGE No. 160061 ON NC 86  
OVER HOGAN'S CREEK

TYPE OF WORK: DRAINAGE, GRADING, PAVING, AND STRUCTURE

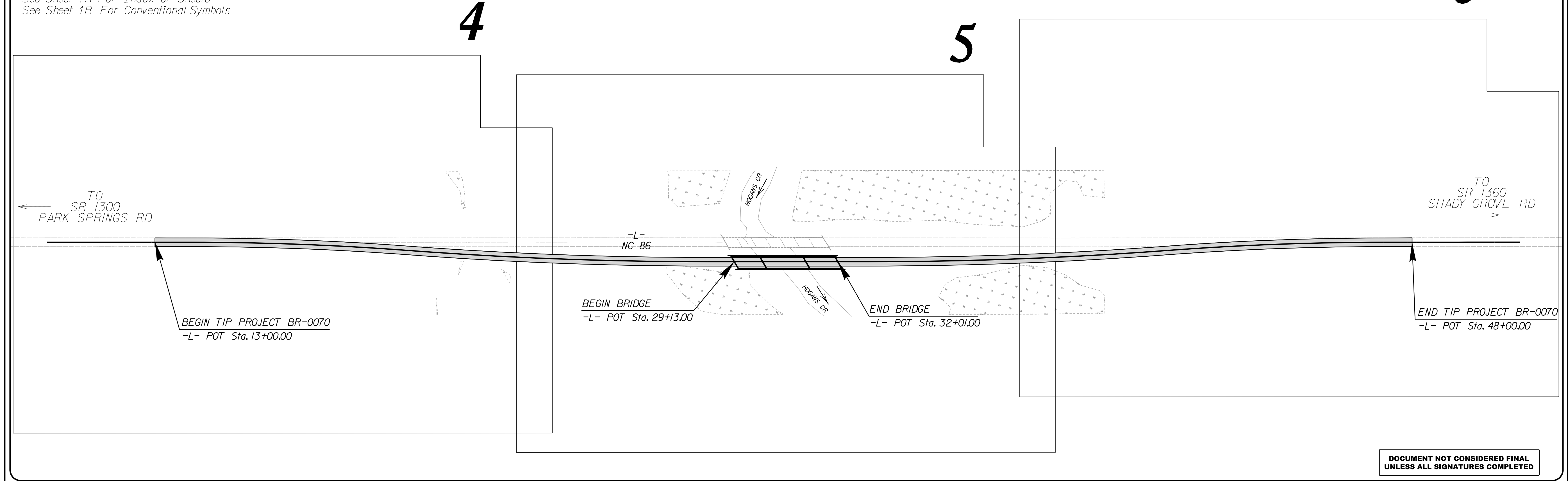
|                 |                             |              |              |
|-----------------|-----------------------------|--------------|--------------|
| STATE           | STATE PROJECT REFERENCE NO. | SHEET NO.    | TOTAL SHEETS |
| N.C.            | BR-0070                     | 1            |              |
| STATE PROJ. NO. | F.A. PROJ. NO.              | DESCRIPTION  |              |
| 67070.1.1       | N/A                         | PE           |              |
| 67070.2.1       | N/A                         | RIGHT-OF-WAY |              |
| 67070.2.1       | N/A                         | UTILITIES    |              |
| 67070.3.1       | N/A                         | CONSTRUCTION |              |



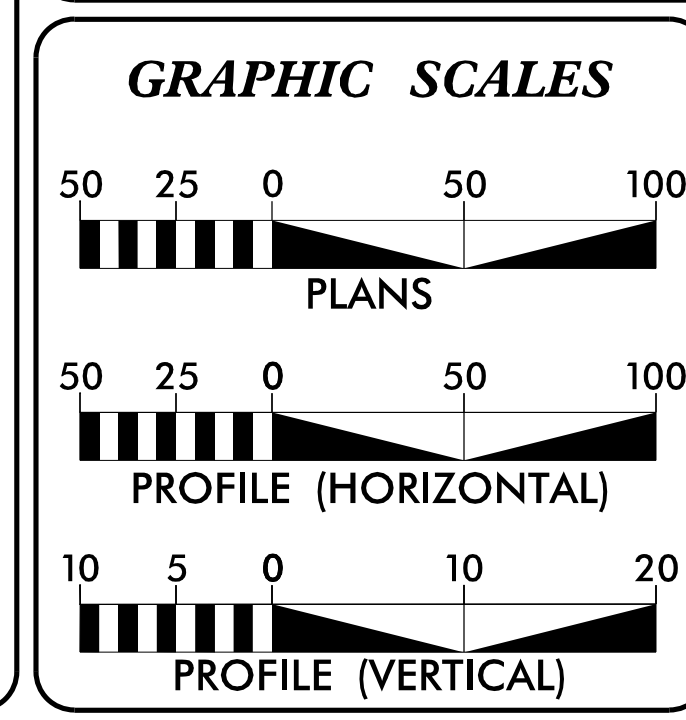
See Sheet 1A For Index of Sheets  
See Sheet 1B For Conventional Symbols



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DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



**DESIGN DATA**

2023 ADT = 9,320 VPD  
2043 ADT = 11,650 VPD

K = 9%  
D = 55%  
T = 6% \*  
V = 60 MPH

\* (TTST 3% + DUAL 3%)

FUNC. CLASS. =  
MINOR ARTERIAL  
REGIONAL TIER

**PROJECT LENGTH**

LENGTH OF ROADWAY TIP PROJECT BR-0070 = 0.608 mi.  
LENGTH OF STRUCTURE TIP PROJECT BR-0070 = 0.055 mi.  
TOTAL LENGTH TIP PROJECT BR-0070 = 0.663 mi.

Prepared in the Offices of:

**STEWART**  
223 S. WEST ST., STE 1100  
RALEIGH, NC 27603  
919.380.8735  
Firm License #1 C-1051  
www.stewartinc.com

**vhb**  
VHB Engineering NC, P.C. (C-3705)  
940 Main Campus Drive, Suite 500  
Raleigh, NC 27606

2018 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
JANUARY 18, 2022

**LETTING DATE:**  
JANUARY 17, 2023

**ANDY YOUNG, PE**  
PROJECT ENGINEER

**MICHAEL BURNS, PE**  
PROJECT DESIGN ENGINEER

**BRIAN KETNER, PE**  
NCDOT CONTACT

**HYDRAULICS ENGINEER**

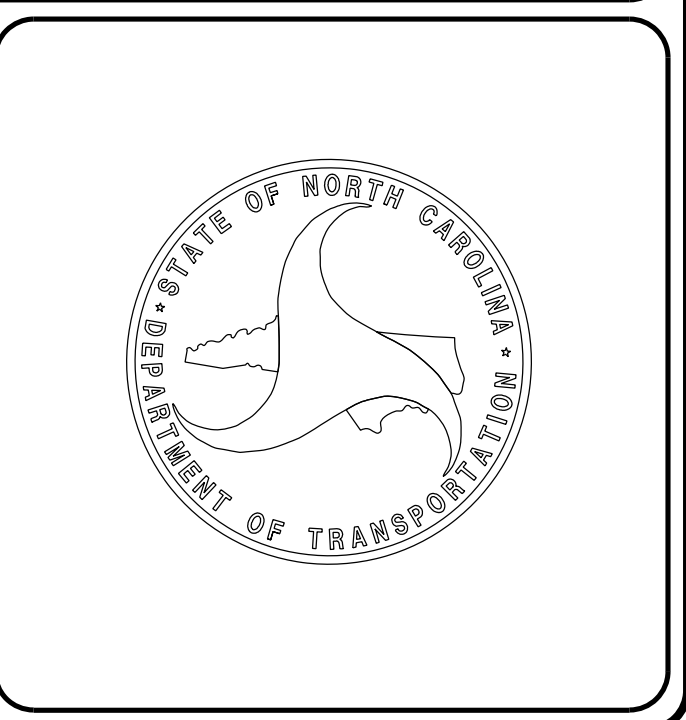
10/26/2022

DocuSigned by:  
*Rid. B. Robel*  
063E6A39E8984F4...  
SIGNATURE: P.E.

**ROADWAY DESIGN ENGINEER**

10/20/2022

DocuSigned by:  
*Michael S. Burns, Jr.*  
D425C8CC006F437...  
SIGNATURE: P.E.



9/28/2022  
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USERS:dhowe