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**ENGLISH DETAIL DRAWING FOR GUARDRAIL INSTALLATION**

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

SHEET 3 OF 7  
**862D02**

**ISOMETRIC VIEWS**

**FRONT**

**SIDE**

**PLAN**

**SYSTEM PARTS**

**ENGLISH DETAIL DRAWING FOR GUARDRAIL INSTALLATION**

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SHEET 3 OF 7  
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**TYPICAL GUARDRAIL AND GUARDRAIL POST ALTERNATIVES**

**NOTES:**  
 A - 5/8" DIA. BUTTON HEAD SPLICE BOLT 1 1/4" LONG WITH STD. WASHER UNDER NUT (8 REQ. PER SPLICE JOINT).  
 B - 5/8" DIA. BUTTON HEAD BOLT 7 1/2" LONG WITH NUT FOR BOLTING 6" W/ 6" ROUTED OFFSET BLOCK TO STEEL POSTS OR 9 1/2" DIA. BUTTON HEAD BOLT 18" LONG WITH STD. WASHER UNDER NUT FOR BOLTING TO WOOD POSTS (1 REQ. PER LOCATION)  
 C - FIELD PUNCHING OF HOLES INTO GUARDRAIL SHALL BE AS DIRECTED BY THE ENGINEER.

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SHEET 4 OF 7  
**862D02**

**FRONT**

**SIDE**

**FRONT**

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**PLAN**

**SYSTEM PARTS**

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SHEET 4 OF 7  
**862D02**

**SOIL PLATE**  
1/4" THICK PLATE

**STEEL TUBE**  
16 8" X 8" X 0.1875"

**BEARING PLATE**  
9/8" THICK PLATE

**WOOD OFFSET BLOCK**  
(FOR WOOD POSTS)

**SHORT WOOD BREAKAWAY POST**

**STANDARD LINE POST**

**DESIGN SERVICES UNIT  
STANDARDS AND SPECIAL DESIGN**

Office 919-250-4128 FAX 919-250-4119

**SEE PLATE FOR TITLE**

ORIGINAL BY: 2002 STD. 862.02 DATE: 02-08-03  
 MODIFIED BY: E.E. WARD DATE: 7-03  
 CHECKED BY: [Signature] DATE: 7-03  
 FILE SPEC.: [Path]