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5/14/99

ENGLISH DETAIL DRAWING FOR GUARDRAIL INSTALLATION

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

SHEET 3 OF 7
862D02

PLAN

DOUBLE FACE GUARDRAIL

TRAFFIC FLOW

SEE NOTE 'B'

WOOD POST WITH ROUTED OFFSET BLOCK

16d COMMON NAIL

SEE NOTE 'A'

SEE NOTE 'B'

SEE NOTE 'A'

SEE NOTE 'B'

SEE NOTE 'A'

SEE NOTE 'B'

SEE NOTE 'A'

SEE NOTE 'B'

FRONT

DOUBLE FACE GUARDRAIL

GROUND LINE

SEE NOTE 'A'

SEE NOTE 'B'

SEE NOTE 'A'

SEE NOTE 'B'

SEE NOTE 'A'

SEE NOTE 'B'

SEE NOTE 'A'

SEE NOTE 'B'

SIDE

DOUBLE FACE GUARDRAIL

GROUND LINE

SEE NOTE 'A'

SEE NOTE 'B'

SEE NOTE 'A'

SEE NOTE 'B'

SEE NOTE 'A'

SEE NOTE 'B'

SEE NOTE 'A'

SEE NOTE 'B'

ISOMETRIC VIEWS

WOOD GUARDRAIL POST WOOD OFFSET BLOCK

STEEL GUARDRAIL POST

ROUTED OFFSET BLOCK

WOOD GUARDRAIL POST WOOD OFFSET BLOCK

STEEL GUARDRAIL POST

ROUTED OFFSET BLOCK

WOOD GUARDRAIL POST WOOD OFFSET BLOCK

STEEL GUARDRAIL POST

ROUTED OFFSET BLOCK

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SHEET 3 OF 7
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ENGLISH DETAIL DRAWING FOR GUARDRAIL INSTALLATION

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

SHEET 4 OF 7
862D02

PLAN

STANDARD LINE POST

6'-0"

7/8" DIA. CENTERED ON 6" SIDE

7/8" DIA.

3/4" DIA.

3/4" DIA.

2'-0" X 1'-6" SOIL PLATE

1 1/8" DIA.

FRONT

STANDARD LINE POST

6'-0"

7/8" DIA. HOLES

7/8" DIA.

3/4" DIA.

3/4" DIA.

2'-0" X 1'-6" SOIL PLATE

1 1/8" DIA.

SIDE

STANDARD LINE POST

6'-0"

7/8" DIA. HOLES

7/8" DIA.

3/4" DIA.

3/4" DIA.

2'-0" X 1'-6" SOIL PLATE

1 1/8" DIA.

PLAN

WOOD OFFSET BLOCK (FOR WOOD POSTS)

8"

6"

3/4" DIA.

2 1/2" X 3/4" SLOT

3'-6 3/4"

1'-6"

7 1/2" DIA.

1 1/8"

FRONT

WOOD OFFSET BLOCK (FOR WOOD POSTS)

8"

6"

3/4" DIA.

2 1/2" X 3/4" SLOT

3'-6 3/4"

1'-6"

7 1/2" DIA.

1 1/8"

SIDE

WOOD OFFSET BLOCK (FOR WOOD POSTS)

8"

6"

3/4" DIA.

2 1/2" X 3/4" SLOT

3'-6 3/4"

1'-6"

7 1/2" DIA.

1 1/8"

PLAN

SOIL PLATE

14" THICK PLATE

2'-0"

6"

9"

1'-6"

7/8" DIA. HOLES

7/8" DIA.

1 3/4" ± 1/8"

2 3/4" ± 3/16"

1 1/2" ± 1/8"

1 3/4" ± 1/8"

2 3/4" ± 1/8"

3/4" DIA.

FRONT

SOIL PLATE

14" THICK PLATE

2'-0"

6"

9"

1'-6"

7/8" DIA. HOLES

7/8" DIA.

1 3/4" ± 1/8"

2 3/4" ± 3/16"

1 1/2" ± 1/8"

1 3/4" ± 1/8"

2 3/4" ± 1/8"

3/4" DIA.

SIDE

SOIL PLATE

14" THICK PLATE

2'-0"

6"

9"

1'-6"

7/8" DIA. HOLES

7/8" DIA.

1 3/4" ± 1/8"

2 3/4" ± 3/16"

1 1/2" ± 1/8"

1 3/4" ± 1/8"

2 3/4" ± 1/8"

3/4" DIA.

PLAN

STEEL TUBE

TS 8" X 8" X 0.1875"

8"

1"

7/8" DIA. CENTERED ON 6" SIDE

7/8" DIA.

3/4" DIA.

3/4" DIA.

2'-0" X 1'-6" SOIL PLATE

1 1/8" DIA.

FRONT

STEEL TUBE

TS 8" X 8" X 0.1875"

8"

1"

7/8" DIA. CENTERED ON 6" SIDE

7/8" DIA.

3/4" DIA.

3/4" DIA.

2'-0" X 1'-6" SOIL PLATE

1 1/8" DIA.

SIDE

STEEL TUBE

TS 8" X 8" X 0.1875"

8"

1"

7/8" DIA. CENTERED ON 6" SIDE

7/8" DIA.

3/4" DIA.

3/4" DIA.

2'-0" X 1'-6" SOIL PLATE

1 1/8" DIA.

PLAN

BEARING PLATE

5/8" THICK PLATE

8"

1 1/8" DIA.

FRONT

BEARING PLATE

5/8" THICK PLATE

8"

1 1/8" DIA.

SIDE

BEARING PLATE

5/8" THICK PLATE

8"

1 1/8" DIA.

PLAN

"W6" STEEL POST

6'-0"

7/8" DIA. HOLES

7/8" DIA.

3/4" DIA.

3/4" DIA.

2'-0" X 1'-6" SOIL PLATE

1 1/8" DIA.

FRONT

"W6" STEEL POST

6'-0"

7/8" DIA. HOLES

7/8" DIA.

3/4" DIA.

3/4" DIA.

2'-0" X 1'-6" SOIL PLATE

1 1/8" DIA.

SIDE

"W6" STEEL POST

6'-0"

7/8" DIA. HOLES

7/8" DIA.

3/4" DIA.

3/4" DIA.

2'-0" X 1'-6" SOIL PLATE

1 1/8" DIA.

PLAN

SHORT WOOD BREAKAWAY POST

8"

6"

3/4" DIA.

2 1/2" X 3/4" SLOT

3'-6 3/4"

1'-6"

7 1/2" DIA.

1 1/8"

FRONT

SHORT WOOD BREAKAWAY POST

8"

6"

3/4" DIA.

2 1/2" X 3/4" SLOT

3'-6 3/4"

1'-6"

7 1/2" DIA.

1 1/8"

SIDE

SHORT WOOD BREAKAWAY POST

8"

6"

3/4" DIA.

2 1/2" X 3/4" SLOT

3'-6 3/4"

1'-6"

7 1/2" DIA.

1 1/8"

TYPICAL GUARDRAIL AND GUARDRAIL POST ALTERNATIVES

NOTES:

A - 5/8" DIA. BUTTON HEAD SPLICE BOLT 1 1/4" LONG WITH STD. WASHER UNDER NUT (6 REQ. PER SPLICE JOINT).

B - 5/8" DIA. BUTTON HEAD BOLT 7 1/2" / 9" LONG WITH NUT FOR BOLTING 6" / 8" ROUTED OFFSET BLOCK TO STEEL POSTS OR 5/8" 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.

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 022966
 JOEL S. HOWERY, P.E.
 12/12/04

DESIGN SERVICES UNIT
STANDARDS AND SPECIAL DESIGN
 Office 919-250-4128 FAX 919-250-4119

SEE PLATE FOR TITLE

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