NOTES:

1. Use the Type A, blocked-out, system for median guardrail.

2. Use weathering steel for all structural steel and fastener hardware as specified.

3. Place a terminal section on both approach and trailing ends of median barrier installations. See Detail ET 517-61 and Standard 517-62.

4. Use no more than 3 short guardrail posts in a row. A 25-inch diameter round anchor may be used instead of the square anchor shown. A reduced size is acceptable in solid rock as approved by the CO.

5. In areas where the rail face is offset a minimum of 25 feet from the edge of travel lane, a maximum approach shoulder slope of 1V:8H may be used.

**STEEL RAIL ELEVATION VIEW**

- 5/8" Dia. hole (typ.)
- 5/8" x 8 1/2" carriage bolt w/hex nut & washer (typ.)

**STEEL SPLICE PLATE**

- 6" x 1 1/4" x 2 1/2"
- 6" x 12" x 12" Block, Type A
- 5/8" Dia. x 4" lag screw pre-drill 5/8" holes 1 1/2" deep in timber rail (typ.)
- *Install carriage bolt and nut through the splice plates

**POST CONNECTION PLAN VIEW**

- Steel rail 6" x 5/8" x 9/9
- Steel splice plate 6" x 5/8" x 2 - 6
- 5/8" Dia. hole (typ.)

**CONCRETE ANCHOR FOR SHORT GUARDRAIL ASSEMBLY**

(See Note 4)

- Steel rail 6" x 5/8" x 9/9
- Steel splice plate 6" x 5/8" x 2 - 6

**POST CONNECTION ELEVATION VIEW (Viewing Back of Rail)**

- 5/8" Dia. carriage bolt w/hex nut (24" with Type A blocked-out system) *
- 6" x 10" x 9 - 11 1/2 Rough sawn timber rail

- Maximum slope 10:1 (See Note 5)
- Maximum slope 10:1 (See Note 5)

**SECTION A-A**

- *Install carriage bolt and nut through the splice plates

**ELEVATION VIEW**

- Steel rail 6" x 5/8" x 9/9
- Steel splice plate 6" x 5/8" x 2 - 6

- Maximum slope 10:1 (See Note 5)
- Maximum slope 10:1 (See Note 5)

**PLAN VIEW**

- Steel rail 6" x 5/8" x 9/9
- Steel splice plate 6" x 5/8" x 2 - 6

- Maximum slope 10:1 (See Note 5)
- Maximum slope 10:1 (See Note 5)

**NO SCALE**

- *Install carriage bolt and nut through the splice plates

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
OFFICE OF FEDERAL AID HIGHWAY

FLHD DETAIL

STEEL-BACKED TIMBER GUARDRAIL
MEDIAN, TYPE A

DETAIL APPROVED: MAY 2021
REVISED: FEBRUARY 2022

E617-70