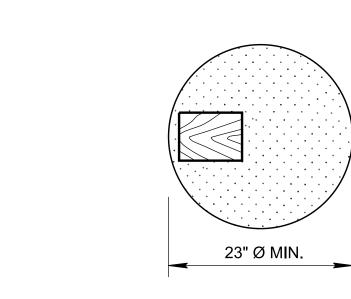
**EXCAVATE THE AREA** BETWEEN DRILLED -HOLES

20" MIN.

3- OVERLAPPING HOLES 8" Ø





**ALTERNATIVE** 

SINGLE 23" Ø HOLE

20" Ø MIN.

ALTERNATIVE

SINGLE 20" Ø HOLE

32"

40"

SELF CONSOLIDATING

MATERIAL SUCH AS # 57 STONE

(SEE NOTE (A)

**VARIES** 

0"-16"

**VARIES** 40"-24" 72"

★ THIS WIDTH MAY BE INCREASED

TO 15 IN. TO ACCOMMODATE

CONSTRUCTION TOLERANCES.

**OVERLAYING** 

MATERIAL OR SELF

CONSOLIDATING

MATERIAL

(SEE NOTE (A)

3 - HOLES OR

SINGLE HOLE SEE BELOW

**ELEVATION** 

**GUARDRAIL POST IN ROCK** 

**INSTALLATION DETAIL** 

(WHEN SOIL DEPTH IS 16" OR LESS)

**PLAN VIEW** 

**PLAN VIEW** 

**FOR WOOD POST** 

**WOOD OR** 

STEEL POST

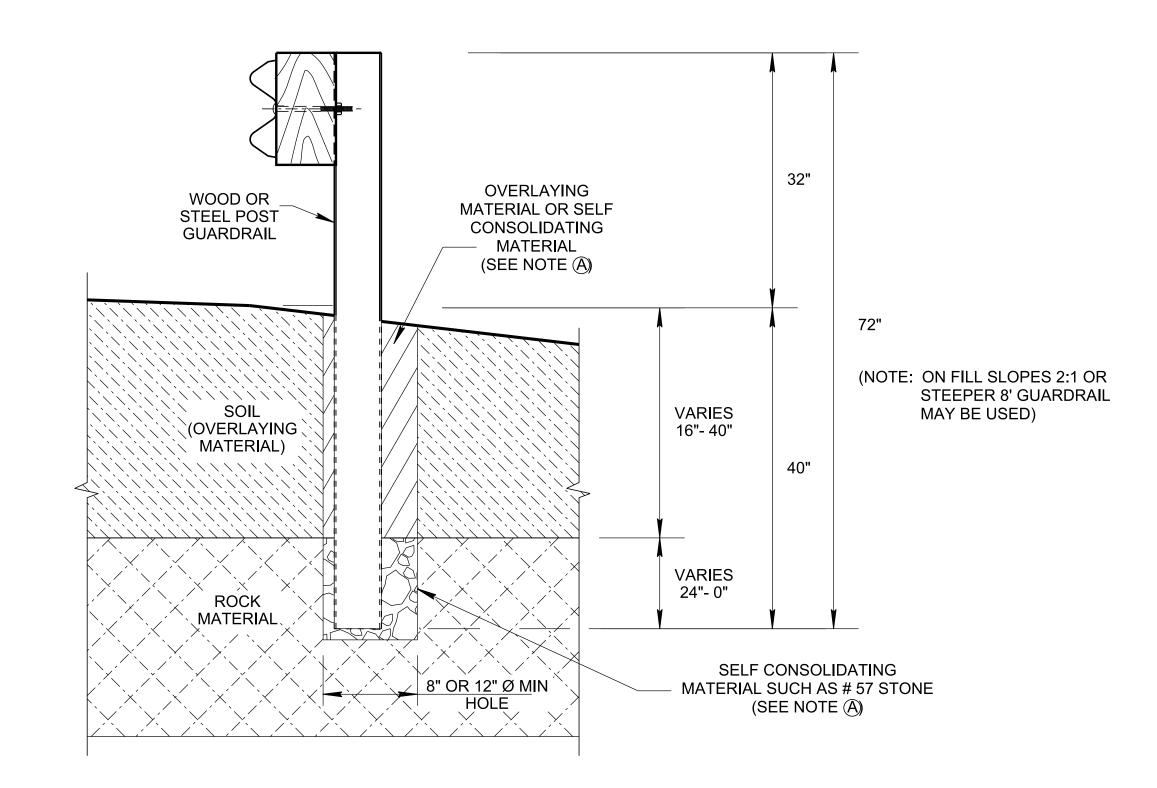
**GUARDRAIL** 

` SOIL

(OVERLAYING)

MATERIAL)

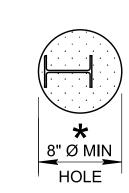
ROCK MATERIAL



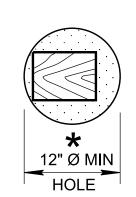
#### **ELEVATION**

# **GUARDRAIL POST IN ROCK INSTALLATION DETAIL**

(WHEN SOIL DEPTH IS GREATER THAN 16")



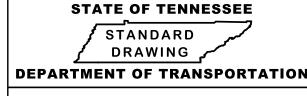
## **PLAN VIEW FOR STEEL POST**



**PLAN VIEW FOR WOOD POST** 

## **GENERAL NOTES**

- DURING INSTALLATION OF GUARDRAIL POSTS IN ROCK, GUARDRAIL POSTS SHALL NOT BE CUT.
- USE THIS STANDARD DRAWING WHEN POSTS CANNOT BE EMBEDDED TO THE MINIMUM DEPTH SHOWN ON STANDARD DRAWING S-GR31-1C.
- UNLESS OTHERWISE SPECIFIED USE EITHER THE CIRCULAR OR THE OBLONG HOLE CONFIGURATION WHEN THE SOIL DEPTH IS 16 INCHES OR LESS.
- ANY EXCESS POST LENGTH, AFTER MEETING THESE DEPTHS, MAY BE FIELD CUT TO ENSURE PROPER GUARDRAIL MOUNTING HEIGHT AND TREAT FIELD CUT GALVANIZED STEEL POST SURFACES THAT EXPOSE THE BASE METAL WITH TWO COATS OF ZINC-OXIDE PAINT.
- PLACEMENT OF GUARDRAIL POSTS IN ROCK HAS BEEN EVALUATED BY THE MIDWEST ROADSIDE SAFETY FACILITY AND MEET MASH TL-3 STANDARDS, AND THE EVALUATION HAS BEEN DOCUMENTED IN THE MIDWEST ROADSIDE MIDWEST STATES POOLED FUND RESEARCH REPORT NO. TRP-03-119-03.
- SEE STANDARD DRAWINGS S-PL-6 FOR GUARDRAIL PLACEMENT AND S-GR31-1 SERIES FOR GUARDRAIL DETAILS.
- PAYMENT OF ROCK DRILLING INCLUDING MINERAL AGGREGATE BACKFILL WILL BE MADE PER TDOT STANDARD SPECIFICATION SUBSECTION 705.10 BASIS OF PAYMENT.



**GUARDRAIL POST PLACEMENT** IN ROCK

08-04-2021

S-GR31-1D

NOT TO SCALE