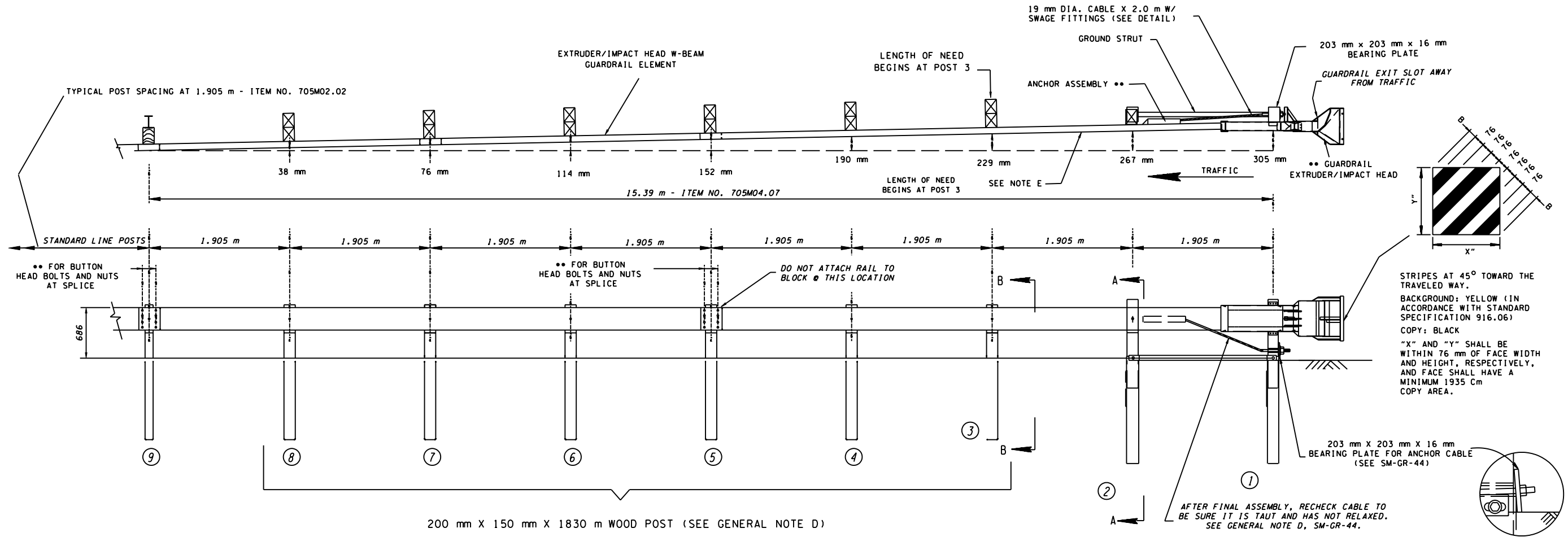




- GENERAL NOTES**
- (A) FOR ADDITIONAL DETAILS OF TERMINAL SYSTEM, REFER TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  - (B) THE FLAT WASHER IS USED UNDER THE NUT, BEHIND THE POST ONLY. NO WASHER IS USED AT THE RAIL.
  - (C) THE TANGENT ENERGY ABSORBING TERMINAL IS TO BE INSTALLED UNDER THE PRICE BID FOR ITEM NO. 705M04.07 TANGENT ENERGY ABSORBING TERMINAL (NCHRP 350-TL3) PER EACH.
  - (D) METAL POSTS ARE AN ACCEPTABLE ALTERNATE TO WOOD POST WHEN SYSTEM IS ON APPROVED PRODUCTS LIST, NCHRP 350 COMPLIANT AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SHOP DRAWINGS.
  - (E) TERMINAL SYSTEM MUST BE CONSTRUCTED SO THAT THE FULL LENGTH OF THE TERMINAL SYSTEM GUARD RAILING IS IN STRAIGHT ALIGNMENT. THE GUARD RAIL EXTRUDER/IMPACT HEAD SHALL NOT ENCRATCH UPON THE ADJACENT PAVED SHOULDER OR LANE.

**SPECIAL INSTALLATION NOTES**

ANY NCHRP 350 COMPLIANT TL-3 TANGENTIAL END TERMINAL ON THE TDOT QUALIFIED PRODUCTS LIST MAY BE INSTALLED. MANUFACTURER'S SHOP DRAWINGS SHALL BE REQUIRED BEFORE ANY TANGENTIAL END TERMINAL INSTALLATIONS CAN BEGIN. THE CONTRACTOR SHALL HAVE ONE COMPLETE SET OF SHOP DRAWINGS ON SITE DURING INSTALLATION OR REPAIR OF ANY TANGENTIAL GUARDRAIL TERMINAL ANCHOR. THE CONTRACTOR SHALL ALSO PROVIDE THE CONSTRUCTION OR MAINTENANCE SUPERVISOR WITH ONE COMPLETE SET OF SHOP DRAWINGS.

FOR THE TYPE 38 GUARDRAIL TERMINAL TO FUNCTION AS IT WAS CRASH TESTED UNDER NCHRP-350 TEST LEVEL 3 THE EARTH PAD UNDER IT MUST BE CONSTRUCTED PER STANDARD DRAWING NO. SM-GR-38 OR SM-GR-38A.

DIFFERENT TANGENTIAL TERMINAL SYSTEMS OR PARTS SHALL NOT BE INTERMIXED ON A RUN OF GUARDRAIL.

**STATE OF TENNESSEE**  
**DEPARTMENT OF TRANSPORTATION**

TANGENTIAL GUARDRAIL TERMINAL ANCHOR (TYPE 38) POST LAYOUT AND ERECTION DETAILS

SM-GR-43

ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.