

DO NOT USE ON NATIONAL HIGHWAY SYSTEM (J)

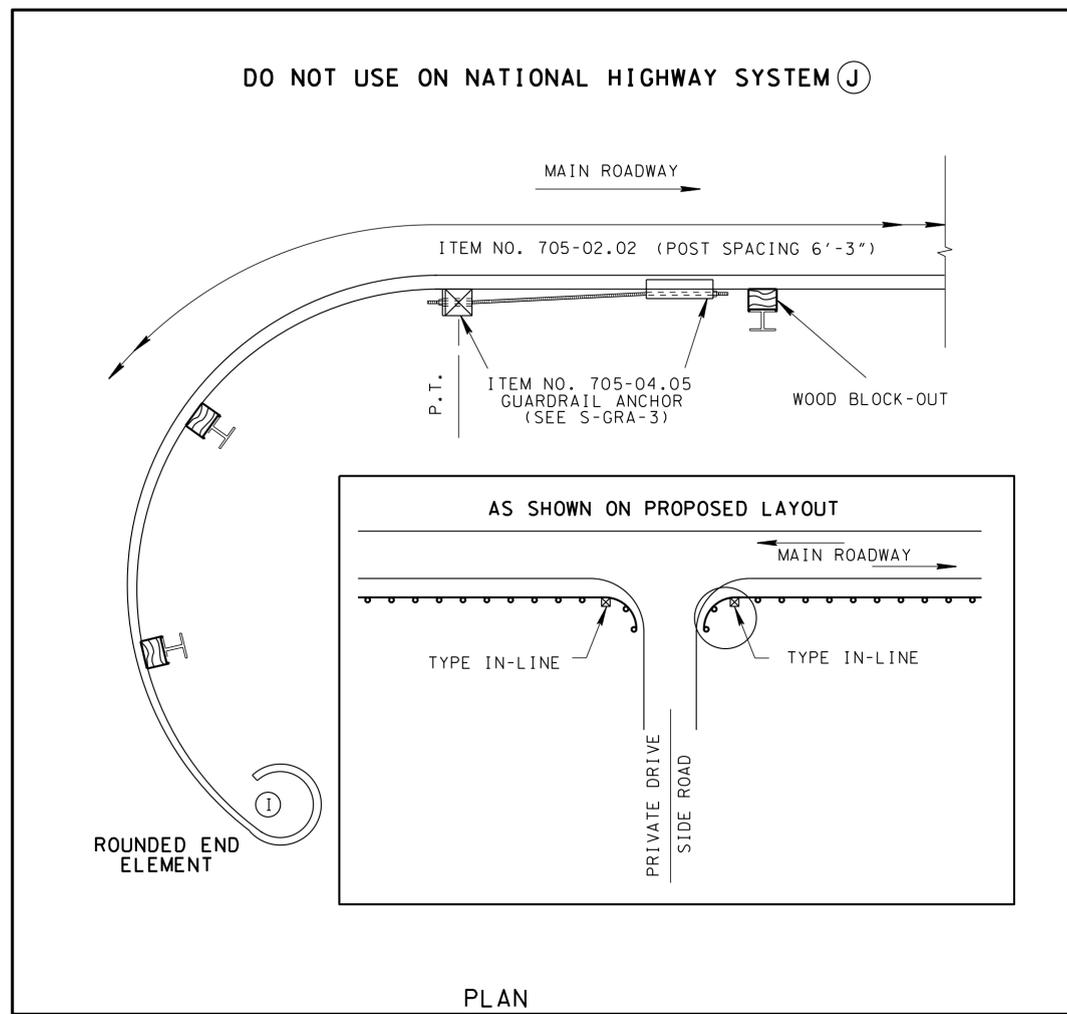


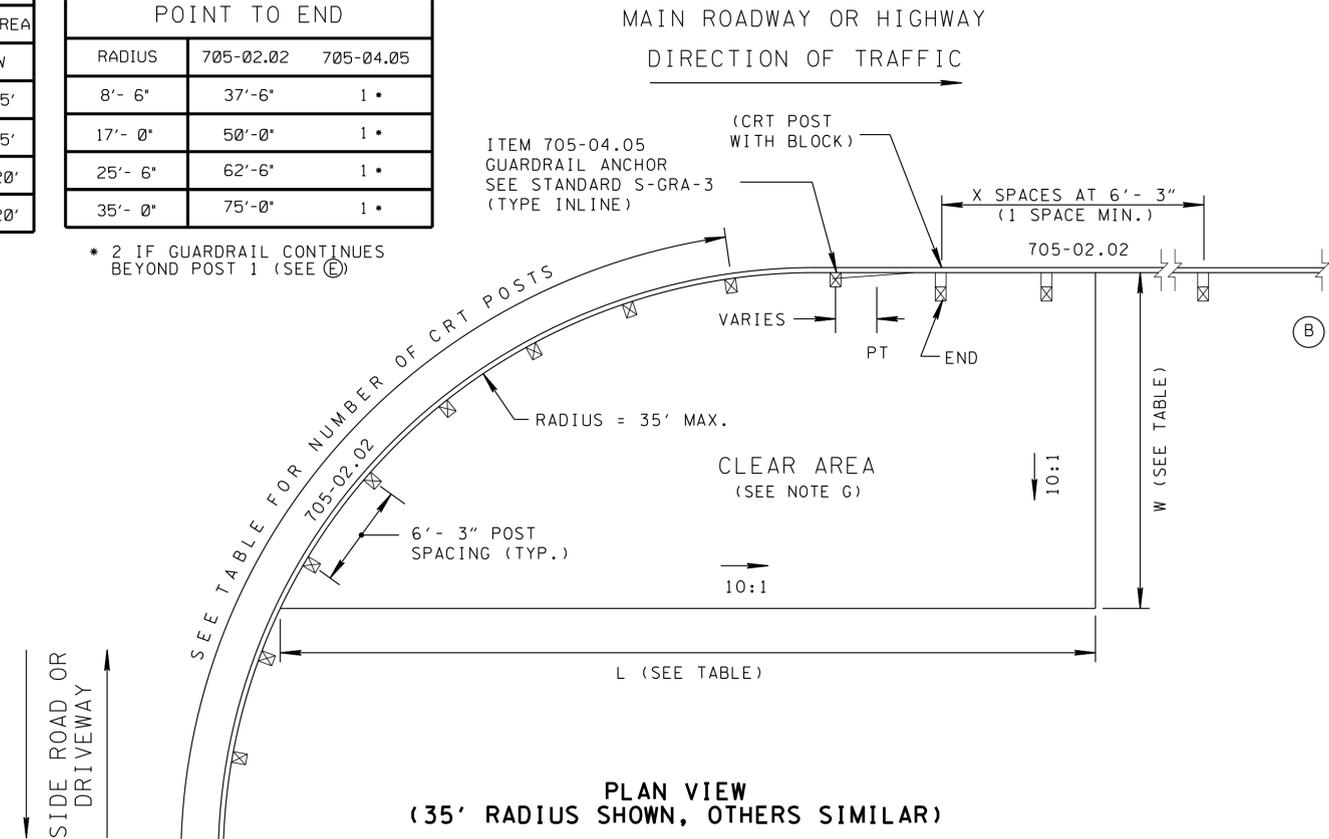
TABLE A
POST AND CLEAR AREA REQUIREMENTS

GUARDRAIL RADIUS	NUMBER OF CRT POSTS	CLEAR AREA	
		L	W
(F) 8'-6"	5	30'	15'
17'-0"	6	30'	15'
25'-6"	8	40'	20'
35'-0"	11	50'	20'

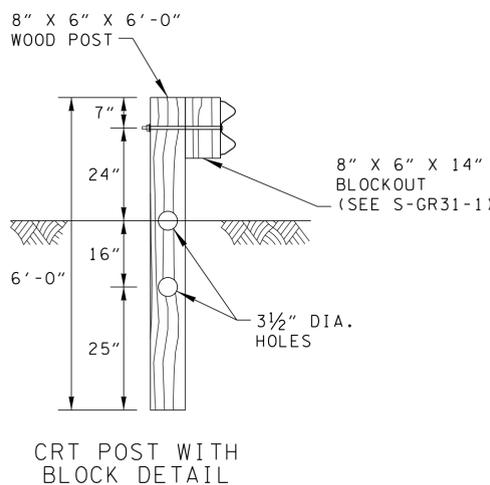
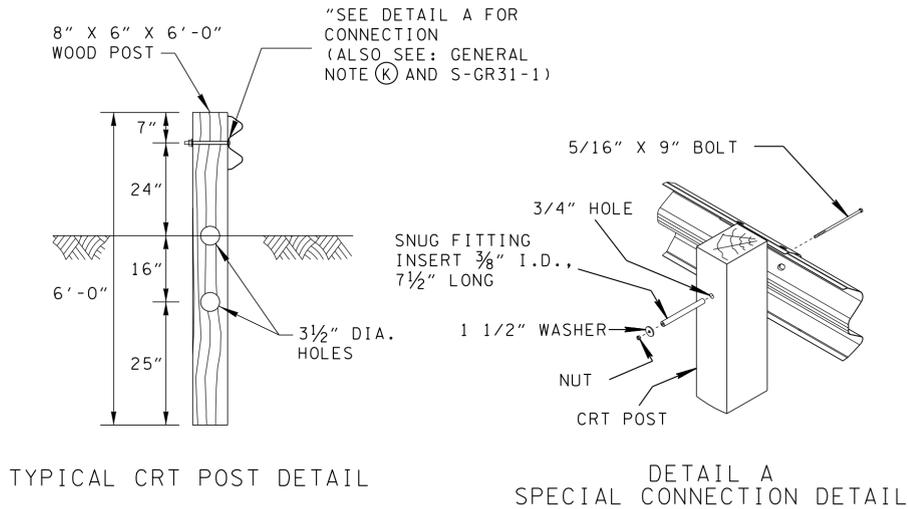
TABLE B
ESTIMATED QUANTITIES FROM BEGINNING POINT TO END

RADIUS	705-02.02	705-04.05
8'-6"	37'-6"	1 •
17'-0"	50'-0"	1 •
25'-6"	62'-6"	1 •
35'-0"	75'-0"	1 •

* 2 IF GUARDRAIL CONTINUES BEYOND POST 1 (SEE E)



- GENERAL NOTES
- (A) THIS STANDARD DRAWING IS TO BE USED WHEN THE L.O.N. EXTENDS TO OR BEYOND AN INTERSECTIONS. DESIGNER IS TO VERIFY THE ENTIRE LENGTH CAN BE CONSTRUCTED WITHIN THE PROPOSED RIGHT-OF-WAY. USE THE NEAREST, LARGER RADIUS FROM TABLE A THAN THE INTERSECTION RADIUS. FOR INSTALLATION WHERE GUARDRAIL RADIUS IS LARGER THAN 35 FEET USE STANDARD INSTALLATION PER S-GR31-1
 - (B) IF CONNECTING TO BRIDGE RAIL OR OTHER CONCRETE BARRIER SEE S-GRC-1 FOR MINIMUM LENGTH OF TRANSITION SECTION BETWEEN GUARDRAIL AND RIGID WALL.
 - (C) THE FORESLOPE FROM THE EDGE OF THE SHOULDER INTO THE FACE OF GUARDRAIL SHOULD NOT BE STEEPER THAN 10(H):1(V).
 - (D) SEE STANDARD DRAWINGS (S-GR31-1) FOR POSTS, RAIL, AND HARDWARE STANDARDS FOR CONSTRUCTION.
 - (E) USE APPROPRIATE END TERMINAL PER STANDARD DRAWINGS (S-GRT-SERIES). IF GUARDRAIL CONTINUES ALONG SIDE ROAD OR DRIVEWAY BEYOND THE POST INSTALL GUARDRAIL ANCHOR AT POST 1 (TYPE IN-LINE) SEE S-GRA-3.
 - (F) DO NOT CONNECT RAIL TO CENTER POST IN CURVE FOR 8'-6" RADIUS DESIGN.
 - (G) THE CLEAR AREA BEHIND THE GUARDRAIL SHALL REMAIN UNOBSTRUCTED AND UNENCUMBERED TO ALLOW THE GUARDRAIL TO FUNCTION PROPERLY. OBSTACLES (I.E., ENDWALLS, SIGNS, DITCHES, ETC.) WITHIN THIS AREA MUST BE REMOVED, RELOCATED, OR REDESIGNED.
 - (H) W-BEAMS SHALL BE SHOP BENT AS REQUIRED.
 - (I) INCLUDED IN THE COST OF OTHER ITEMS.
 - (J) TO DETERMINE IF ROAD IS ON THE NATIONAL HIGHWAY SYSTEM CONSULT THE FUNCTIONAL CLASSIFICATION MAPS MAINTAINED BY TDOT LONG RANGE PLANNING DIVISION. (TDOT.STATE.US/LONGRANGE/FUNCTIONALCLASS.HTM)



- SPECIAL CRT POST NOTES
- (1) FEWER CRT POST ARE REQUIRED FOR SMALLER RADIUS; INCLUDE CRT POST AT POINT B. ATTACH GUARDRAIL TO POST WITH A 5/16" X 9" LONG BOLT, A 3/8" X 7 1/2" SNUG FITTING INSERT AND A 1 1/2" WASHER WITH NUT ON BACK OF POST.
 - (2) THE FLAT WASHER IS USED UNDER THE NUT, BEHIND THE POST ONLY. NO WASHER IS USED AT THE RAIL.