1. Use 5/8 inch threaded rod with washers and nuts to attach W-beam guardrail to posts. Use center hole of post for adjustability so that nuts will have full engagement of rod and will not be greater than 1/2 inch above nut.

2. Use C6X8.2 channel rub rail for the manufacturing of detail A and detail B. Twist detail A to a 35 degree right hand twist, galvanize to meet AASHTO M-111 after painting, cutting and twisting are complete.

3. Use transition guardrail panels according to standard drawings BA 481.

4. Use 1-1/4 inch holes. Do not use rotary percussion drill. Install transition connection plate using 7/8 inch high strength treated rod with round washers, lock washers, and nuts on both sides of the barrier so that nuts will have full engagement of rod and will not be greater than 1/2 inch above nut.

5. Use concrete barriers mounted rub rail.

6. Use 7/8 inch hex head nut, lock washer, and lock washer.

7. Use transition guardrail splice bolts to connect rub rail detail A and rub rail detail B together. Use typical guardrail splice bolts to attach rub rail to blocks and posts.

8. Use transition guardrail detail A, B, C, and D.

9. Use 3/4 inch x 1 1/8 inch types.

10. Use modified block to line up rub rail, detail A, with face of W-beam barrier. Secure block to channel and post at posts 1 & 3. Secure block to channel and post at posts 2 & 4. Secure block to channel and post at post 5, no block required.

11. Use transition guardrail detail A, B, C, and D.

12. Use typical guardrail detail A, B, C, and D.

13. Use modified block to line up rub rail, detail A, with face of W-beam barrier. Secure block to channel and post at posts 2 & 4. Secure block to channel and post at post 5, no block required.

14. Use transition guardrail detail A, B, C, and D.

15. Use typical guardrail detail A, B, C, and D.

16. Use modified block to line up rub rail, detail A, with face of W-beam barrier. Secure block to channel and post at posts 2 & 4. Secure block to channel and post at post 5, no block required.

17. Use transition guardrail detail A, B, C, and D.

18. Use typical guardrail detail A, B, C, and D.

19. Use modified block to line up rub rail, detail A, with face of W-beam barrier. Secure block to channel and post at posts 2 & 4. Secure block to channel and post at post 5, no block required. Use transition guardrail detail A, B, C, and D.

20. Use typical guardrail detail A, B, C, and D.

21. Use modified block to line up rub rail, detail A, with face of W-beam barrier. Secure block to channel and post at posts 2 & 4. Secure block to channel and post at post 5, no block required. Use transition guardrail detail A, B, C, and D.

22. Use typical guardrail detail A, B, C, and D.

23. Use modified block to line up rub rail, detail A, with face of W-beam barrier. Secure block to channel and post at posts 2 & 4. Secure block to channel and post at post 5, no block required. Use transition guardrail detail A, B, C, and D.

24. Use typical guardrail detail A, B, C, and D.

25. Use modified block to line up rub rail, detail A, with face of W-beam barrier. Secure block to channel and post at posts 2 & 4. Secure block to channel and post at post 5, no block required. Use transition guardrail detail A, B, C, and D.

26. Use typical guardrail detail A, B, C, and D.

27. Use modified block to line up rub rail, detail A, with face of W-beam barrier. Secure block to channel and post at posts 2 & 4. Secure block to channel and post at post 5, no block required. Use transition guardrail detail A, B, C, and D.

28. Use typical guardrail detail A, B, C, and D.