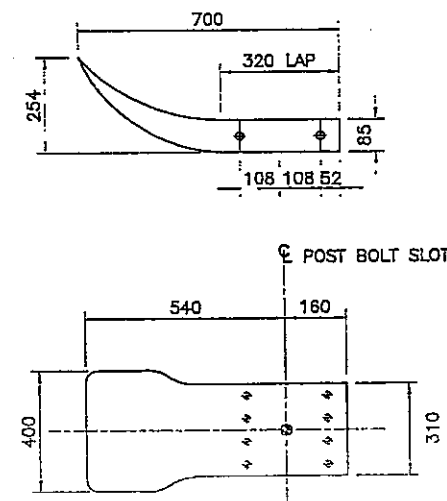
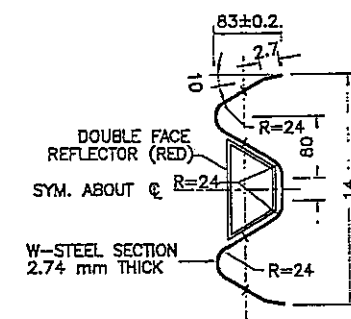


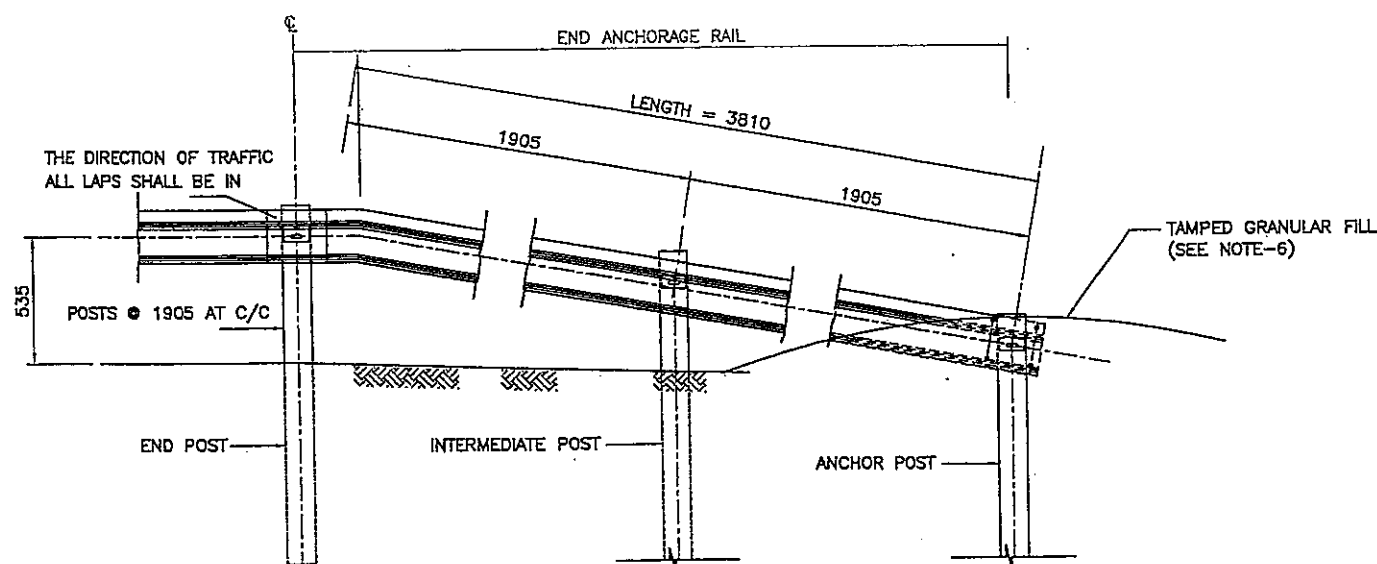
TYPICAL ELEVATION AT DEPARTURE END



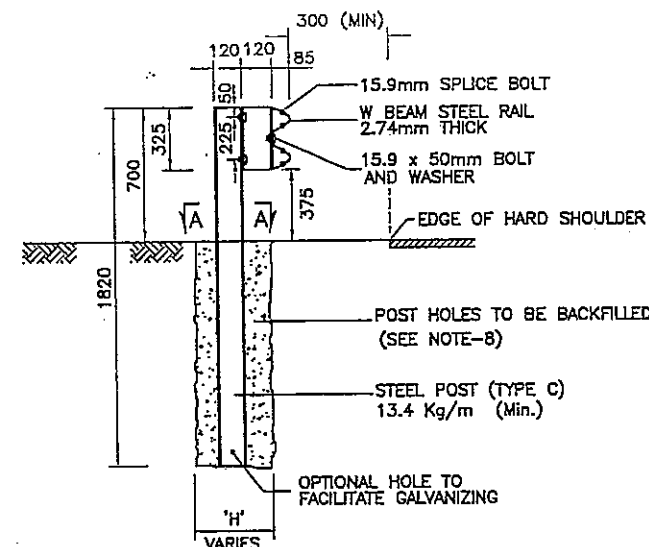
W-BEAM TERMINAL SECTION
(AT DEPARTURE END)



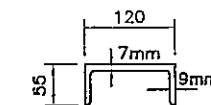
SECTION THROUGH
W BEAM RAIL
(TYPE-1, CLASS B)



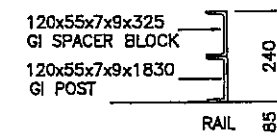
TYPICAL END RAIL ANCHORAGE
AT APPROACH END



STEEL POST FOR GUARD RAIL

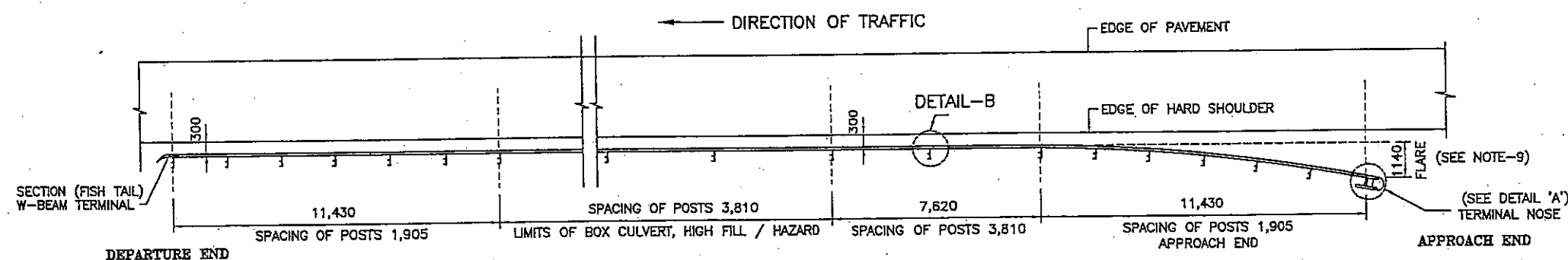


SECTION A-A



DETAIL - B

GUARD RAIL FOR BOX CULVERTS, HIGH FILL (>3m) OR HAZARD



NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETERS. UNLESS NOTED OTHERWISE.
2. ALL LAPS SHALL BE IN THE DIRECTION OF TRAFFIC.
3. W-BEAM TERMINAL SECTIONS SHALL BE USED IN PLACE OF END ANCHORAGE RAIL AT THE DEPARTURE END ONLY OR AT OTHER RESTRICTED LOCATIONS AS APPROVED BY THE ENGINEER.
4. W-BEAM RAIL SECTION SHALL CONFORM TO AASHTO M-180 AND SHALL BE TYPE-1, CLASS B, WHEREAS POST SHALL BE TYPE 'C' (STRONG POST).
5. WHERE THE GUARDRAIL HAS TO FOLLOW A CURVE OF LESS THAN 45m RADIUS, THE BEAM SHALL BE CURVED TO SUIT, BY THE BEAM MANUFACTURER.
6. THE HOLES FOR ANCHORAGE POSTS SHALL BE BACKFILLED WITH WELL COMPACTED GRANULAR MATERIAL. THE SPACE INSIDE THE TERMINAL NOSE SHALL BE FILLED WITH CONCRETE.
7. THE CONTRACTOR SHALL PREPARE DRAWINGS SHOWING LOCATION, ELEVATIONS AND SPACING OF POSTS AT EACH CULVERT/HIGH FILL LOCATION AND SHALL OBTAIN ENGINEER'S APPROVAL.
8. BACKFILLING OF THE POST HOLES WILL BE CARRIED OUT AS FOLLOWS:
 - IN CASE OF ROCK, CORED HOLES-250 DIA (AS MADE) WILL BE BACKFILLED WITH LEAN CONCRETE.
 - IN CASE OF STRATA OTHER THAN ROCK, HOLES-300 DIA (AS MADE) WILL BE BACKFILLED WITH LEAN CONCRETE OR THE POSTS MAY BE HAMMERED IN PLACE AS APPROVED BY THE ENGINEER.
9. NO EXTRA PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR CORING AND OR CONCRETING FOR POST FIXATION.
10. EXISTING EMBANKMENT MAY BE WIDENED, WHERE NECESSARY, TO ACCOMMODATE GUARD RAIL FLARE AT APPROACH END.