

TYPE A
 CONCRETE (INFORMATION ONLY)
 0.1208 Yd.³ Per Ft., Without Base Slab
 0.1578 Yd.³ Per Ft., With Base Slab

TYPE B
 CONCRETE (INFORMATION ONLY)
 0.0702 Yd.³ Per Ft.

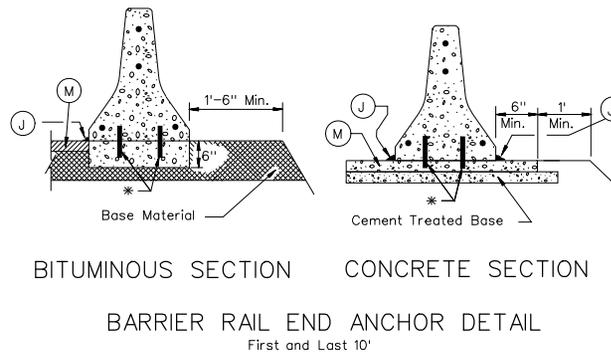
NOTES:

1. CONCRETE SHALL BE CLASS A OR AA. REINFORCING STEEL: USE 4-NO.4 BARS CONTINUOUS IN TYPE A AND TYPE D, CONCRETE BARRIER RAIL. USE 3-NO.4 BARS CONTINUOUS IN TYPE B AND TYPE C, CONCRETE BARRIER RAIL.
2. EXPANSION JOINTS AT ALL STRUCTURES. JOINTS IN BARRIER RAIL OVER A STRUCTURE SHALL BE AT THE SAME LOCATION AND OF THE SAME DIMENSIONS AS THOSE IN THE STRUCTURE. JOINT FILLER NOT REQUIRED IN EXPANSION JOINT IN BARRIER RAIL.
3. BITUMINOUS PAVING REQUIREMENTS: THE BARRIER END ANCHORS SHALL BE CONSTRUCTED IN THE FIRST AND LAST 10' OF THE BARRIER RAIL RUN. AT THE CONTRACTOR'S OPTION, 6" CONCRETE BASE AND BARRIER RAIL MAY BE PLACED MONOLITHICALLY, IN WHICH CASE DOWELS MAY BE ELIMINATED. SEE BARRIER RAIL END ANCHOR DETAILS.

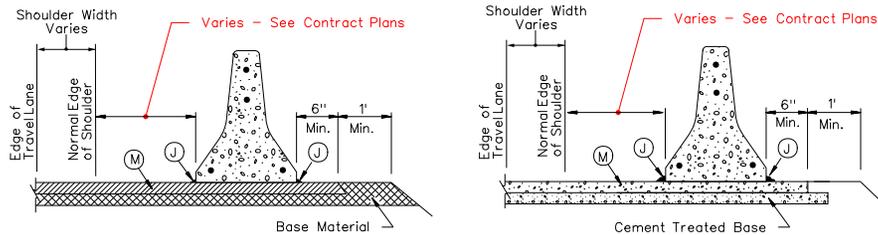
 CONCRETE PAVING REQUIREMENTS: DOWELS SHALL BE REQUIRED IN THE FIRST AND LAST 10' OF THE BARRIER RAIL RUN. THE SURFACE OF THE CONCRETE SHALL BE CLEAN PRIOR TO PLACEMENT OF THE BARRIER RAIL. AT THE CONTRACTOR'S OPTION, CONCRETE PAVEMENT AND BARRIER RAIL MAY BE PLACED MONOLITHICALLY, IN WHICH CASE DOWELS MAY BE ELIMINATED. SEE CONCRETE SECTION FOR DOWELS IN BARRIER RAIL END ANCHOR.
4. VERTICAL JOINTS SHALL HAVE A SINGLE COMPONENT HOT APPLIED SEALANT FULL DEPTH OF JOINT.
5. JOINT SEALER SHALL BE A SINGLE COMPONENT HOT APPLIED SEALANT 1" THICK.
6. THE HEIGHT OF THE BARRIER RAIL SHALL BE MEASURED FROM THE TOP OF THE PLANTMIX BITUMINOUS SURFACE OR THE TOP OF CONCRETE PAVEMENT.
7. FOR IMPACT ATTENUATOR ATTACHMENT DETAILS, SEE MANUFACTURER'S DRAWINGS.. FOR GUARDRAIL ENERGY ABSORBING TERMINAL ATTACHMENT, SEE SHEET R.8.1.1.
8. DEPTH OF 6" BASE SHALL BE CHECKED AND INCREASED AS NEEDED FOR FOUNDATION STABILITY. WHEN BARRIER RAIL SITS ON PAVEMENT, THE BASE CAN BE ELIMINATED. BARRIER RAIL AND ANCHORS MAY BE REQUIRED.
9. FOR DETAILS NOT SHOWN, SEE TYPE A.
10. $B = 2/19 \times h + 12"$
11. SEE CONTRACT PLANS FOR EXACT DIMENSIONS.

LEGEND:

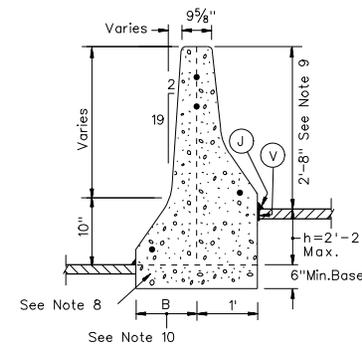
- ① Dimension Used When Barrier Is Placed Against Rock Or Solid Object Such As A Retaining Wall
- (M) Pavement (See Note 3)
- (J) Joint Sealer Typical (See Note 5)
- (V) Vertical Joint Sealer Typical (See Note 4)
- * 1"x 8" Steel Dowel @ 2' Centers (If Needed See Note 3)
- No.4 Bars Continuous



BARRIER RAIL END ANCHOR DETAIL
 First and Last 10'



NORMAL ROADWAY DETAIL
 1/4" Scored Joints @ 15'



TYPE D

Concrete Barrier Rail Lateral Flare Rates

| DESIGN SPEED | FLARE RATE |
|--------------|------------|
| 75 MPH | 22:1 |
| 70 MPH | 20:1 |
| 60 MPH | 17:1 |
| 50 MPH | 14:1 |
| 40 MPH | 11:1 |
| 30 MPH | 8:1 |

NEVADA DEPARTMENT OF TRANSPORTATION

CONCRETE BARRIER RAIL