



NOTE: THIS SAFETY RAIL SHALL ONLY BE USED IN PLACE OF SAFETY FENCE COB STD R-19 WHEN PRE-APPROVED BY CITY ENGINEER IN AREAS OF SIGHT LINE CONFLICT.

SAFETY RAIL NOTES:

1. ALL RAILING IS TO BE 1 1/2" SCH. 40 CARBON STEEL TUBING.
2. SECTIONS SHALL BE JOINED, WHERE NECESSARY, WITH FRICTION-TYPE INTERNAL SPLICES SECURED WITH EPOXY. NO FIELD WELDING OR MECHANICAL FASTENERS WILL BE ALLOWED.
3. RAILS ARE TO BE SHOP ROLLED TO MATCH REQUIRED CURVATURE AS NECESSARY. FIELD BENDING IS NOT ALLOWED.
4. BOTTOM OF POSTS TO BE EMBEDDED IN CONCRETE SHOULD FIRST BE PROTECTED WITH TWO-PART EPOXY DIPPING OR ZINC CHROMATE COATING TO PREVENT CORROSION.
5. ONLY NON-METALLIC, NON-SHRINK GROUT IS TO BE USED FOR SECURING POST IN CONCRETE,
6. ALL EXPOSED BUTT JOINTS SHALL BE FLUSH AND TIGHT.
7. THE HANDRAIL FOR INCLINED SURFACES IS REQUIRED WHEN THE RUNNING SLOPE IS 5% OR GREATER AND SHALL MEET ALL APPLICABLE REQUIREMENTS AND PROVISIONS OF SECTION R408 OF THE ADA ACCESSIBILITY GUIDELINES FOR PUBLIC RIGHTS-OF-WAY.
8. FINISH WITH 1 COAT OF EPOXY PRIMER AND 2 COATS OF ALL WEATHER ENAMEL PAINT. PAINT SHALL BE SEMI-GLOSS AND BLACK IN COLOR.
9. ANY SUBSTITUTIONS MUST BE APPROVED BY THE CITY ENGINEER.

SAFETY RAIL IS REQUIRED IF:

1. THERE IS A VERTICAL DROP OF 30" OR MORE WITHIN 4' OF THE WALK -OR-
2. THERE IS A SLOPE OF 2:1 OR STEEPER WITHIN 4' OF THE BACK OF WALK -OR-
3. THERE IS A SLOPE OF 3:1 OR STEEPER WITHIN 4' OF THE BACK OF WALK WITH A TOTAL ELEVATION CHANGE OF 6' OR GREATER.



DATE 6/21/18	REVISED 6/21/18	SCALE NOT TO SCALE	DETAIL R-20
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SAFETY RAIL WITH HANDRAIL OPTION
CITY OF BURLINGTON, NORTH CAROLINA
ENGINEERING DEPARTMENT