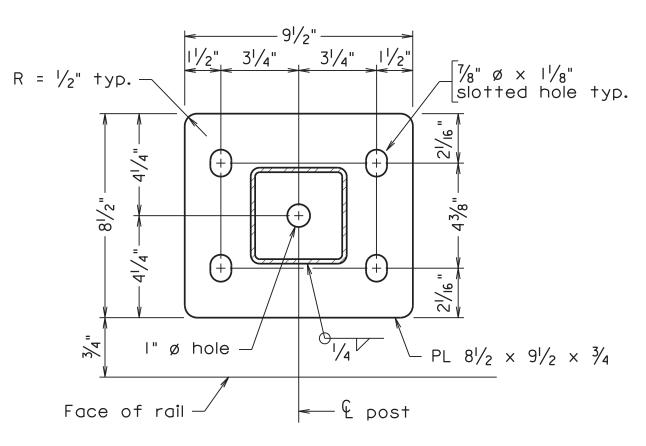
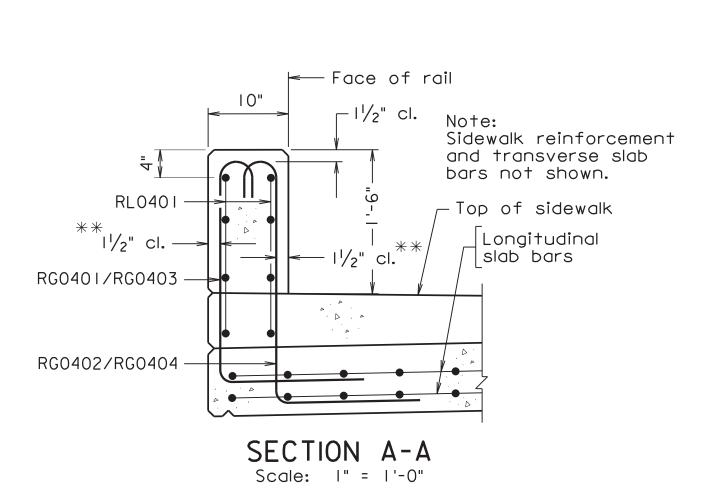
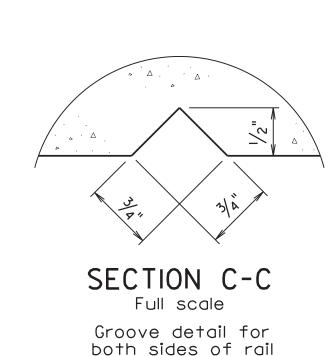


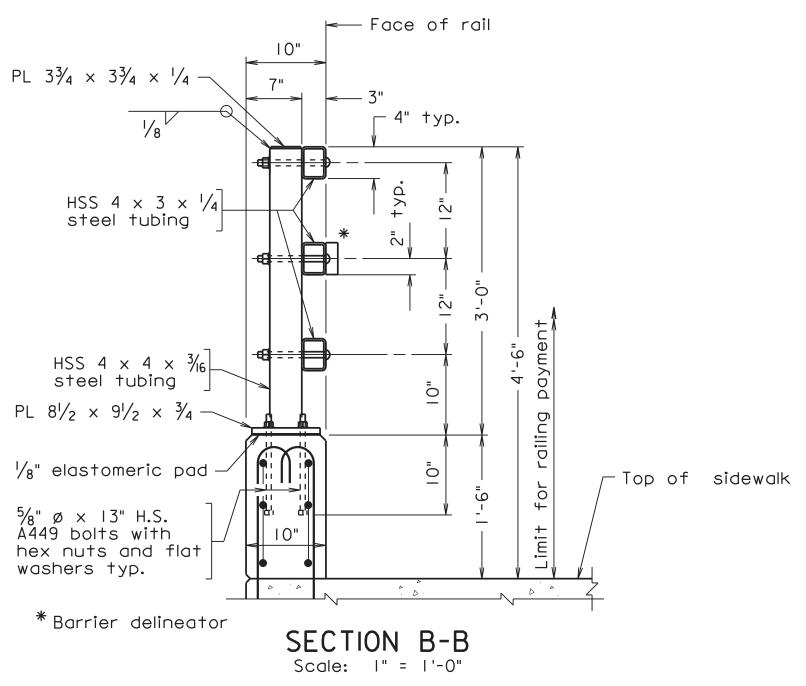
ELEVATION
Scale: 3/4" = 1'-0"



BASE PLATE DETAIL
Not to scale







Bolts through base plate shall be contained inside rebar cage

Notes:

Plan dimensions shown are measured in the respective horizontal and vertical planes.

The Contractor shall determine all dimensions and details necessary for installation.

All concrete shall be Low Shinkage Class A4 Modified.

All bevels for concrete shall be $\frac{3}{4}$ ".

The reinforcing steel shown has been detailed based on a standard $\frac{1}{4}$ " per foot cross slope and for an $\frac{8}{2}$ " slab depth. The Contractor shall adjust the reinforcing steel as required for other cross slopes and slab depths.

All reinforcing steel shall be Corrosion Resistant Reinforcing Steel, Class I.

For details and reinforcing steel schedule of terminal wall, see Sheet B-I5.

Posts and rail members shall be ASTM A500 Grade B steel. Plates shall be ASTM A36 steel. Steel pipe sleeves shall be ASTM A53.

Bolts for attaching rails to post are $\frac{3}{4}$ " diameter round head (with slot in head), ASTM A449. All other bolts shall be ASTM A325 unless otherwise indicated in the details. Nuts shall be ASTM A563 Grade DH or ASTM A194 Grade 2H. Washers shall be ASTM F436.

For bolts attaching rails to posts, bolt extensions beyond nut shall be limited to the smaller of one and a half finishing turns or $\frac{1}{4}$ ". If the extension is longer, excess shall be cut off and the edges of the bolt end ground so that no sharp edges remain. Cold galvanizing shall be applied to damaged galvanized areas.

All steel shall be hot dip galvanized.

1'-6"

RG0401

RG0401

RG0402

RG0403

RG0404

RL0401

Mark

Posts shall be equally spaced within a span. Maximum spacing is 7'-0". Minimum spacing is 6'-6" $\,$

Posts shall be seated on neoprene pads $\frac{1}{8}$ " minimum thickness, having a nominal durometer hardness of 60. Pads shall conform to post base dimensions.

Cut bottom of posts to match cross slope before welding so that posts will be vertical. Steel shims may be used to adjust post alignment, maximum thickness of shim build-up not to exceed $\frac{1}{8}$ ". Where more tilting of the post is required, the concrete shall be ground down.

Rails to be continuous over a minimum of 3 posts before splicing.

For additional notes, see Sheets B-14 and B-15.

** The cover tolerance referenced in the VDOT Road and Bridge Specifications as -0" to $+\frac{1}{2}$ " is shifted to $-\frac{1}{4}$ " to $+\frac{1}{4}$ " for placement of the RGO4 series bars.

REINFORCING STEEL SCHEDULE

1'-6"

RG0403

3"

3"

Length |Pin ø|

1'-6"

4'-3"

4'-5"

4'-7"

22'-03"

Dimensions in bending diagram are out-to-out of bars.

RG0402

69

69

Size No.

#4 69

#4 | 69 |

#4 | 12

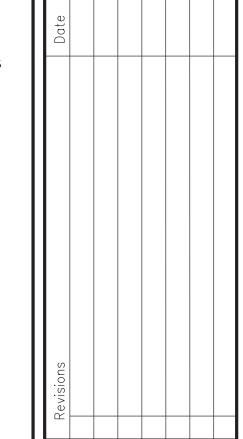
#4

#4

CHAD M. THOMAS

Lic. No. 036962

SSLONAL ENGINEER



Drawn By: DKA
Designed By: MLF
Checked By: CMT
Date: 03/10/17

ENGINEERS • SURVEYORS

701 FIRST STREET, S.W.
ROANOKE, VIRGINIA 24016
(540) 345-9342
FAX (540) 345-7691



Oity of Roanoke
Planning, Building, & Developmen
COMPREHENSIVE DEVELOPMENT PLAN

APPROVED

Adrian Gilbert 03/15/20/

Adrian Gilbert 03/15/2018

SEK TRIBUTARY A

A STATEMENT OF THE CONTRACT OF THE

BERKLEY ROAD OVER CLADE CF 54" BR27D STE

1'-6"

RG0404

Location

Upstream Parapet

Upstream Parapet

Parapet

Downstream Parapet

Downstream Parapet

Vertical Scale:

Horizontal Scale:

AS NOTED

Commission Number: 34301

Sheet No.:

B-13