30", 36" and 48"

NOTE: SEE TRAFFICGUARD OR LIKE KIND FOR ADDITIONAL TYPES / MODIFICATIONS SEE WWW.TRAFFICGUARD.NET

EASY VEHICLE ACCESS WHEN LOWERED — 4"
CLEARANCE
BOLLARD ROTATES 180 DEGREES
HIGH VISIBILITY SAFETY YELLOW
RUST FREE 1" DIAMETER STAINLESS STEEL
PINS — ONE WITH 13/32 HOLE FOR PADLOCK
ALL SURFACES ARE PRIMED WITH RUST & CORROSION RESISTANT, ZINC RICH PRIMER W/
5,000 HOUR SALT SPRAY PERFORMANCE
STANDARD FINISH, RAL1028 YELLOW
PART INSIDE ELEVATION

6'-0"(±) POST SPACING

HSS 4x8 POST (TYP.)
PIPE 2½ STD.
BAR 1"Ø (TYP.)
HSS 2x4 RAIL

TOP OF CURB

PLATE 3/8x1½ (TYP.)

BASE AS REQ'D. FOR COLLISION
3/4"Ø THREADED ROD W/NUTS & SPACERS (TYP.)

CITY OF CHARLOTTESVILLE

CITY STANDARDS
METAL RAILING INSIDE ELEVATION (SHEET 1 OF 2)

REVISION DATE
SCALE: N.T.S. STANDARD NUMBER: BR-1
NOTES:

- MATERIAL:
  
  TUBING - ASTM A53, TYPE S.
  
  HSS - ASTM A500, GRADE B.
  
  PLATE - ASTM A36.

- CONSTRUCTION AND MATERIALS SHALL BE PER VDOT SPECIFICATIONS AND SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF VIRGINIA TO WITHSTAND VEHICLE IMPACTS FOR THE PROJECT DESIGN SPEED.

- FINISH, APPLICATION, AND METHOD OF FABRICATION AND INSTALLATION SHALL MATCH WITH W. MAIN ST. OVER NORFOLK SOUTHERN RAILROAD BRIDGE IN THE CITY.

SECTION A—A
Control & Exp. Jt. as req'd.

Part Inside Elevation

Top of Sidewalk

Top of Deck

Terminal Wall as req'd.

Lighting w/conduit as req'd.
NOTES:

- MATERIAL:
  
  CONCRETE –  CLASS A4.
  
  REINFORCING STEEL – ASTM A653, GRADE 60.

- CONSTRUCTION AND MATERIALS SHALL BE PER VDOT SPECIFICATIONS AND SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF VIRGINIA TO WITHSTAND VEHICLE IMPACTS FOR THE PROJECT DESIGN SPEED.

- FINISH, APPLICATION, AND METHOD OF FABRICATION AND INSTALLATION SHALL MATCH WITH PARK ST. OR LOCUST AVE. OVER RTE. 250 BYPASS BRIDGE IN THE CITY.
ALL WOOD TO BE PRESSURE TREATED (POSTS FOR GROUND CONTACT), DRIED, PRIMED TO RECEIVE TWO (2) FINISHED COATS OF PAINT ON ALL EXPOSED SURFACES.

SPECIFY THAT CONTRACTOR IS TO MAINTAIN FENCING INCLUDING THE PROMPT REMOVAL OF GRAFFITI AND REPAINTING TO RESTORE APPEARANCE.

3/4" x 3-1/2" x 1'-0" SPICE PLAT AT POSTS

16'-0" +/-

7' 10-1/4" +/-

7' 10-1/4" +/-

3/4" EXT. GRADE PLYWOOD (TYP.)

ELEVATION OF GATE
1/4" = 1'

SECTION THRU FENCE
1'-1/2" = 1'

1'-10" +/-

2" +/-

6" TYP.

4'-0" PANEL WIDTHS

1'-1/2" X 3-1/2" BASE AND CAP

3'-1/2" X 3-1/2" X 10' TREATED WOOD POSTS

3/4" EXT. GRADE PLYWOOD

1'-1/2" X 1'-1/2" TREATED WOOD TRIM WITH MITERED CORNERS

EMBEDDED POST 1' MIN. BRACED WITH DIAGONALS. STAKED AT GRADE WITH OR WITHOUT SANDBAG WEIGHT AS REQUIRED FOR UPRIGHT STRAIGHT ALIGNMENT AND STRENGTH.
OR AS DIRECTED OTHERWISE BY THE ENGINEER

8"—#4 DOWELS 4’ O—C

12" 4"

2"R

MINIMUM

18"

6"

11"

8"—#4 DOWELS
4’ O—C

CITY MIX CLASS A
3500 CONC.

NOTES:

1. THE DEPTH OF CURB MAY BE REDUCED OR INCREASED AS MUCH AS 6" (15"—21" DEPTH) SO THAT THE BOTTOM OF THE CURB WILL COINCIDE WITH THE TOP OF A COURSE OF THE PAVEMENT SUBSTRUCTURE. OTHERWISE THE DEPTH SHALL BE 18" AS SHOWN.

2. CURBING HAVING A RADIUS OF 300’ OR LESS (ALONG FACE OF CURB) SHALL BE CONSIDERED RADIAL CURBING.

3. Ruled joints required every 10’ on center, 1/2” premolded expansion joint filler 30” max. on center.

4. Concrete to be city mix class A 3500.
NOTES:
1. THE BOTTOM OF THE CURB AND GUTTER MAY BE CONSTRUCTED PARALLEL TO THE SLOPE OF SUB–SURFACE COURSES PROVIDED A MINIMUM DEPTH OF 7" IS MAINTAINED.

2. COMBINATION CURB & GUTTER HAVING A RADIUS OF 300’ OR LESS (ALONG FACE OF CURB) SHALL BE CONSIDERED RADIAL COMBINATION CURB & GUTTER.

3. RULED JOINTS SHALL BE PLACED AT 10’ O.C.

4. PLACE 1/2” PREMOLDED EXPANSION JOINT FILLER AT 30’ MAX. O.C.
GENERAL NOTES:
1. DETECTABLE WARNING TO BE PRE-FORMED PLASTIC INSERT WITH SLIP RESISTANT SURFACE COVERING THE FULL WIDTH OF THE RAMP FLOOR BY 2 FOOT LENGTH IN THE DIRECTION OF TRAVEL.

2. THE DETECTABLE WARNING SHALL BE PROVIDED BY TRUNCATED DOMES. TRUNCATED DOMES TO BE STAMPED IN TOP SURFACE. THE COLOR OF THE DETECTABLE WARNING SECTION SHALL BE YELLOW.

3. SLOPING SIDES OF CURB RAMP MAY BE POURED MONOLITHICALLY WITH RAMP FLOOR OR BY USING PERMISSIBLE CONSTRUCTION JOINT WITH REQUIRED BARS.

4. IF RAMP FLOOR IS PRECAST, HOLES MUST BE PROVIDED FOR DOWEL BARS SO THAT ADJOINING FLARED SIDES CAN BE CAST IN PLACE AFTER PLACEMENT OF PRECAST RAMP FLOOR. PRECAST CONCRETE SHALL BE CLASS A-4.

5. REQUIRED BARS ARE TO BE NO. 5 X 8" PLACED 1' CENTER TO CENTER ALONG BOTH SIDES OF THE RAMP FLOOR, MID-DEPTH OF RAMP FLOOR. MINIMUM CONCRETE COVER 1 1/2".

6. RAMPS MAY BE PLACED ON RADIAL OR TANGENTIAL SECTIONS PROVIDED THAT THE CURB OPENING IS PLACED WITHIN THE LIMITS OF THE CROSSWALK AND THAT THE SLOPE AT THE CONNECTION OF THE CURB OPENING IS PERPENDICULAR TO THE CURB.

7. TYPICAL CONCRETE SIDEWALK IS 4" THICK. WHEN THE RAMP IS PLACED IN THE CURB RETURN RADIUS IT SHALL BE 7" THICK.

8. WHEN CURB RAMPS ARE USED IN CONJUNCTION WITH A SHARED USE PATH, THE MINIMUM WIDTH SHALL BE THE WIDTH OF THE SHARED USE PATH.
TANGENT PLAN

NOTE: FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 3.

TYPE B PARALLEL APPLICATION

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<tr>
<th>ROADWAY GRADE (%)</th>
<th>MIN. RAMP LENGTH (FT)</th>
<th>4&quot; CURB</th>
<th>6&quot; CURB</th>
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NOTE: THE REQUIRED LENGTH OF A PARALLEL RAMP IS LIMITED TO 15 FEET, REGARDLESS OF THE SLOPE.

TYPICAL PLACEMENT AT INTERSECTION WITHIN CROSSWALK

SECTION A-A

SECTION B-B

A 4' SQUARE LANDING AREA OUTSIDE OF TRAVELWAY SHALL BE PROVIDED FOR PERPENDICULAR CROSSWALK WITHIN THE MARKED CROSSWALK AREA.
TANGENT PLAN
NOTE: FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 3.

BACK OF CURB
20:1
12:1
48:1 MAX.
2' MIN.

SECTION A–A

TRUNCATED DOMES.

PERMISSIBLE CONST. JOINT
12:1 MAX
48:1 MAX
12:1 MAX
5'
6''

2' MIN.

STD. CG–2

THIS COMBINED (PARALLEL & PERPENDICULAR) DESIGN FOR ALTERATIONS CAN BE USED WITH ADJOINING BUFFER STRIP. LANDING AT BOTTOM OF TWO SLOPING SIDES WITH 60°X60° MIN. DIMENSIONS. THE SHORT PERPENDICULAR RUN TO THE STREET CAN BE PROTECTED BY A LANDSCALED SETBACK OR CONNECTED TO THE SIDEWALK WITH A WARPED SURFACE.

TYPICAL PLACEMENT AT INTERSECTION WITH PLANTING STRIP
THE SELECTION OF CURB TYPE AND THE CONFIGURATION OF THE UTILITY TRIP MAY VARY TO MEET EXISTING FIELD CONDITIONS AND ROADWAY GEOMETRICS PROVIDING THE DIMENSIONS AND SLOPES ARE AS NOTED.

TYPE C
PARALLEL & PERPENDICULAR APPLICATION

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<th>MIN. RAMP</th>
<th>LENGTH (FT)</th>
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NOTE: THE REQUIRED LENGTH OF A PARALLEL RAMP IS LIMITED TO 15 FEET, REGARDLESS OF THE SLOPE.

CITY STANDARDS
CG–12 DETECTABLE WARNING SURFACE TYPE C (SHEET 3 OF 3)

REVISION DATE SCALE: N.T.S. STANDARD NUMBER: CG–12
2" VDOT SM-9.5 PAVEMENT SLOPE
1% MIN. TO BACK OF EXISTING SIDEWALK

4" VDOT #21B COMPACTED BASESTONE

COMPACTED SUBGRADE CBR=10
TO BE FIELD VERIFIED

PAVEMENT DRIVEWAY DETAIL
NO SCALE

NOTES:
1. PAVEMENT SHALL CONSIST OF MATERIALS IN ACCORDANCE WITH THE SPECIFICATIONS.
2. USE WITH NEW DRIVEWAYS OR DRIVEWAY ADJUSTMENTS.
ET-4 HAS OPAQUE COVER
ET-2 HAS OPAQUE COVER

NOTES:
1. MODELS ET-1 AND ET-3 WITH UPLIGHT ARE NOT PERMITTED.
2. THIS STANDARD FOR DOWNTOWN MALL USE ONLY.

HAND HOLE WITH COVER

11'-9"

18"

11-1/2" DIA. BOLT CIRCLE

TYPE ET-4

TYPE ET-2
NOTE:
THIS STANDARD FOR DOWNTOWN MALL USE ONLY

CITY OF CHARLOTTESVILLE

CITY STANDARDS
DOWNTOWN MALL LIGHT FIXTURE
TYPE 2

REVOLUTION DATE
SCALE: N.T.S. STANDARD NUMBER: LF-2
TYPE SL2

DESCRIPTION:
EXTERIOR METAL HALIDE STREET LIGHT, 2-HEADS AT 90°, FULL CUT-OFF, TYPE III OPTICS, 20'-0" TO TOP OF HEAD, BLACK FINISH

LAMP TYPE:
250 WATT METAL HALIDE ED28, 4000K, 65CRI
MAX. WATT = 288
VOLTS = 120

NOTE: THIS STANDARD FOR DOWNTOWN MALL USE ONLY.
THE DEPTH OF CURB MAY BE REDUCED AS MUCH AS 3" (15" DEPTH) OR INCREASED AS MUCH AS 3" (21" DEPTH) IN ORDER THAT THE BOTTOM OF CURB WILL COINCIDE WITH THE TOP OF A COURSE OF THE PAVEMENT SUBSTRUCTURE. OTHERWISE THE DEPTH IS TO BE 18" AS SHOWN.

THE DEPTH OF CURB MAY BE REDUCED AS MUCH AS 3" (15" DEPTH) OR INCREASED AS MUCH AS 3" (21" DEPTH) IN ORDER THAT THE BOTTOM OF CURB WILL COINCIDE WITH THE TOP OF A COURSE OF THE PAVEMENT SUBSTRUCTURE. OTHERWISE THE DEPTH IS TO BE 18" AS SHOWN.

NOTE: CONCRETE TO BE CITY MIX CLASS A 3500
NOTES:
1. STONE FOR EROSION CONTROL SHALL MEET THE REQUIREMENTS OF THE CURRENT VDOT ROAD AND BRIDGE SPECIFICATIONS (RBS) SECTION 204.
2. PLACEMENT OF STONE SHALL MEET REQUIREMENTS OF RBS SECTION 414, FOR DRY RIP RAP CLASS I.
3. THE TOP 6" OF EROSION CONTROL STONE SHALL BE GROUTED.
4. THE SURFACE OF ALL EROSION CONTROL STONE IS TO BE ROUGH OR IRREGULAR. HOWEVER, THE VARIATION OF THE GROUTED SURFACE SHALL NOT EXCEED 1/4 OF THE THICKNESS OF THE MAXIMUM SIZE STONE.
5. FOR MULTIPLE LINE INSTALLATIONS DIMENSION DI IS TO GOVERN THE PROTECTION OUTSIDE THE CHANNEL WIDTH (W).

**D** REPRESENTS SPAN FOR BOX CULVERT INSTALLATIONS.

H = DIAMETER FOR ROUND PIPE, RISE FOR PIPE ARCH OR BOX HEIGHT.

** USE TYPICAL SECTION SHOWN ON PLANS OR NORMAL SIDE SLOPE, BOTTOM WIDTH, AND DEPTH OF CHANNEL, DITCH OR NATURAL GROUND.
3' 9"

3 1/4"

LIGHT GAGE STRAP ANGLES

2-2"x6" SIGN SUPPORTS, RABBITED & SCREWED INTO POSTS

2-6"x6" WOOD POSTS

BACK

4' ABOVE FINISHED GRADE

1 3/4"

6"

SIDE

CONCRETE FOOTING

2'-6" MIN.

CONCRETE 3000 PSI
(MIN.)

6"

6"

6"
NOTE: THIS DETAIL SHOULD BE USED FOR STREETS ON NEW DEVELOPMENTS WHERE THE STREET IS NOT YET ACCEPTED BUT C.O.’S HAVE BEEN ISSUED.

1. BACKGROUND IS MUTCD STANDARD BLUE.
2. LEGEND IS MUTCD STANDARD WHITE.
2-2"x6" Sign supports. Rabbitted & screwed into posts.
Light gage strap angles.
2-6"x6" Wood posts.

Back: 4' above finished grade.

Concrete footing:
- 6" diameter
- 2'-6" minimum depth
- 3000 PSI concrete (min.)

Side:
- 6"
- 3/4"

Dimensions:
- 3' 9"
- 3 1/4"
POLE MOUNTING PLATE
PROVIDE NUTS ON TOP & BOTTOM
AND GROUT LAYER (1/2" MIN.)
BETWEEN PLATE & CONCRETE

2" ALL AROUND

1" CHAMFER

EXOTHERMIC OR MECHANICAL CONNECTION

3/4" DIA. X 10' LONG COPPER CLAD GROUND ROD WITH #8 INSULATED GROUND WIRE

POLE

ANCHOR BOLT, SIZES AS RECOMMENDED BY MANUFACTURER

SIDEWALK

3000 P.S.I. CONCRETE @ 28 DAYS

#4 BARS @ 6" O.C.

#3 TIES @ 12" O.C.

GENERAL NOTE:
FOUNDATION DETAIL DIMENSIONS AND REINFORCING MAY FLUCTUATE DUE TO SITE CONDITIONS, FIELD VERIFY AND SITE ADAPT.

POWER IN

POWER IN

POLE MOUNTING DETAIL
NOT TO SCALE

CITY OF CHARLOTTESVILLE

CITY STANDARDS
RESIDENTIAL STREET LIGHT POLE FOUNDATION
REVISION DATE
SCALE: N.T.S. STANDARD NUMBER: PF-2
COMPACTED SUBGRADE WITH CURB AND GUTTER

3" VDOT SM-9.5 PAVEMENT SLOPE 2% MIN. TO GUTTER PAN

8" VDOT # 21A COMPACTED AGGREGATE

COMPACTED SUBGRADE WITH STANDARD SIDEWALK WITH CURB

3" VDOT SM-9.5 PAVEMENT SLOPE 2% MIN. TO FACE OF CURB

8" VDOT # 21A COMPACTED AGGREGATE
ASPHALT 1.5 TIMES EXISTING PAVEMENT THICKNESS
MIN. 2" ASPHALT SURFACE COURSE
AND 4" ASPHALT BASE COURSE

TACK AND SEAL

EXISTING PAVEMENT
STONE SUB-BASE

COMPACTED VDOT #21A

PIPE

PIPE O.D. + 24"

BEDDING AS REQUIRED

TACK AND SEAL
SECTION A–A

NOTES:
1. STANDARD RESIDENTIAL ENTRANCES SHALL BE:
   SINGLE ENTRANCE: 10’
   DOUBLE ENTRANCE: 20’
   NOT INCLUDING 5’ VERTICAL TRANSITIONS.

2. MINIMUM 20’ SEPARATION BETWEEN DRIVEWAYS
   (CITY CODE SECTION 34–976)

ELEVATION AT CURB LINE
SECTION A-A

ISOMETRIC VIEW

NOTES:
STANDARD RESIDENTIAL ENTRANCES SHALL BE:
SINGLE ENTRANCE: 10’ WITH CURB
12’ WITH SHOULDERS & DITCH
DOUBLE ENTRANCE: 20’

1/2 OF STANDARD ENTRANCE INDICATED ON PLANS

EXISTING OR PROPOSED SIDEWALK

1/2" PREMOLDED EXPANSION JOINT FILLER
PLANTING AREA

1/2" PREMOLDED EXPANSION JOINT FILLER

EXPOSED OR PROPOSED CURB AND GUTTER

BACK OF ENTRANCE APRON
TOP OF CURB
FLOW LINE OF GUTTER AT CURB

TOP OF GUTTER AT EDGE OF PAVING

1/2" PREMOLDED EXPANSION JOINT FILLER

BACK OF WALK

* 3’ MIN. TO ADJACENT PROPERTY

CITY STANDARDS

STANDARD ENTRANCE ACROSS SIDEWALK CURB & GUTTER
(CITY OF CHARLOTTESVILLE)

(SHEET 1 OF 2)
ADDITIONAL ENTRANCE AND SIDEWALK TO BE FUTURE CONSTRUCTION. SEE RE-2, SHEET 1 OF 2.

LOCAL STREETS 2"
ALL OTHER STREETS 2 1/2"

NOTE: STANDARD RESIDENTIAL ENTRANCES SHALL BE:
SINGLE ENTRANCE: 10' WITH CURB
12' WITH SHOULDER & DITCH
DOUBLE ENTRANCE: 20'

1/2 OF STANDARD ENTRANCE INDICATED ON PLANS

LOCAL STREETS 2"
ALL OTHER STREETS 2 1/2"

ELEVATION AT CURB LINE
* 3' MIN. TO ADJACENT PROPERTY

CITY STANDARDS
STANDARD ENTRANCE ACROSS CURB & GUTTER ONLY
(CITY OF CHARLOTTESVILLE)
REVISION DATE SCALE: N.T.S. STANDARD NUMBER: RE-2
NOTES:

1. CONCRETE TO BE BC CITY MIX CLASS A 3500.


3. ROLL-TOP CURB & GUTTER MAY BE USED ALONG SUBDIVISION STREETS HAVING A DESIGN SPEED NOT GREATER THAN 30 MPH.

ROLL TOP CURB & GUTTER
NOT TO SCALE
STEPS DETAIL
(UP AND DOWN)

CONST. REQUIREMENTS
STANDARD HR-1 FOR
HANÐRAIL FOR STEPS AND
VDOT SEE VDOT STANDARD
S-2

#5 BAR X 8 12" OC.

EXISTING
SIDEWALK

PEDESTRIAN LANDING AND
STEPS DETAIL
(DOWN)

COMPACTED FILL
OR UNDISTURBED
EARTH

PEDESTRIAN LANDING AND
STEPS DETAIL
(UP)

COMPACTED FILL
OR UNDISTURBED
EARTH

SEE VDOT STANDARD S-2
FOR STEPS
VDOT STANDARD HR-1
FOR HANDRAIL CONSTR.

EXISTING CG-6

EXISTING CG-6

#5 BAR X 8 12" OC.
OR AS DIRECTED OTHERWISE BY THE CITY ENGINEER

3:1 MIN

5'-0"

WALK SLOPE, 1/4" PER FT.

BC CITY MIX CLASS A 3500 CONC.

4" WITH CG-6 7" WITH ROLL-TOP CURB & GUTTER

4" COMPACTED AGGREGATE BASE MATERIAL, SIZE 21A, OR COMPACTED FILL*

1/2" PREMOLDED EXPANSION JOINT FILLER 30" MAX. ON CENTER

RULED JOINT 5' OC.

PLAN

ELEVATION AT CURB LINE

*COMPACT FILL = WELL COMPACTED EARTH OR STONE AGGREGATE TO BE DETERMINED BY CITY INSPECTOR.
SECTION A–A

*COMPACTED FILL = WELL COMPACTED EARTH OR STONE AGGREGATE, TO BE DETERMINED IN THE FIELD BY CITY INSPECTOR

ELEVATION AT CURB LINE

PLAN

1/2" PREMOLDED EXPANSION JOINT FILLER 30" MAX. ON CENTER

RULLED JOINT 5' OC.
BIKE/MULTI-USE TRAIL

NOTES:
ALL BIKE/MULTI-USE TRAILS SHALL REQUIRE 2' MINIMUM CLEAR ZONE ON EACH SIDE AND 8' CLEAR HEIGHT OVERHEAD.
8' MINIMUM WIDTH ALLOWED IN SPECIAL CASES PER APPROVAL OF CITY ENGINEER OR DESIGNEE.
ALTERNATE NON-ERODIBLE SURFACES MAY BE ALLOWED FOR PATHS THAT WILL NOT HAVE VEHICULAR CROSSING PER APPROVAL OF CITY ENGINEER OR DESIGNEE.
CRUSH-AND-RUN/STONE DUST MAY BE SUBSTITUTED AS AN ACCEPTABLE SURFACE TYPE PER APPROVAL OF CITY ENGINEER OR DESIGNEE.
REFER TO CHAPTER 4 OF THE BICYCLE & PEDESTRIAN FACILITIES MASTER PLAN FOR MAINTENANCE REQUIREMENTS.
**NATURE TRAIL**

**NOTES:**
- All nature trails shall require 1’ minimum clear zone on each side and 8’ clear height overhead.
- Overall easement width shall be between 5 feet and 30 feet, depending on width of trail and any additional maintenance needs.
- Refer to Chapter 4 of the Bicycle & Pedestrian Facilities Master Plan for maintenance requirements.