



Roadway & Sidewalk Program Handbook

for the
Town of Boone, NC

April 2009

Public Works Department

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Introduction

In an effort to promote consistent street and sidewalk infrastructure within the Town of Boone, the Public Works Department has designed a Roadway & Sidewalk Program Handbook.

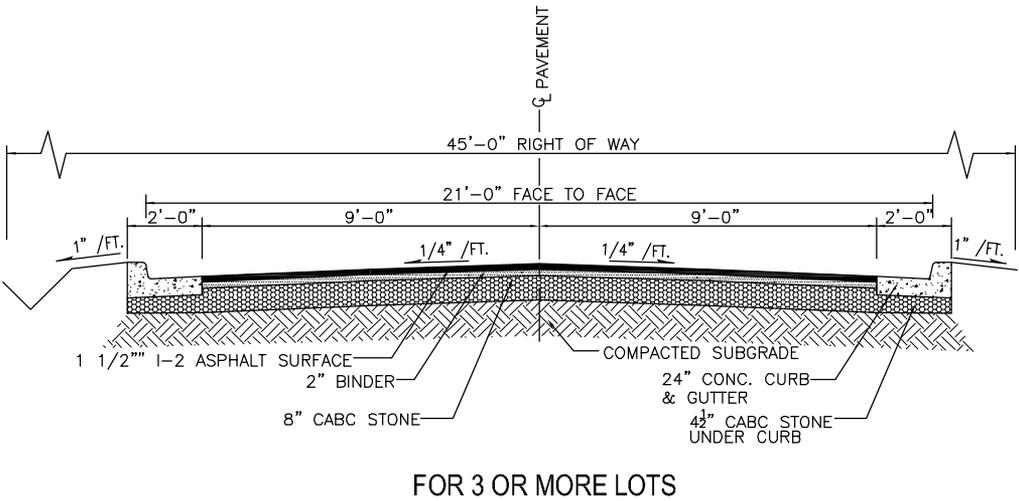
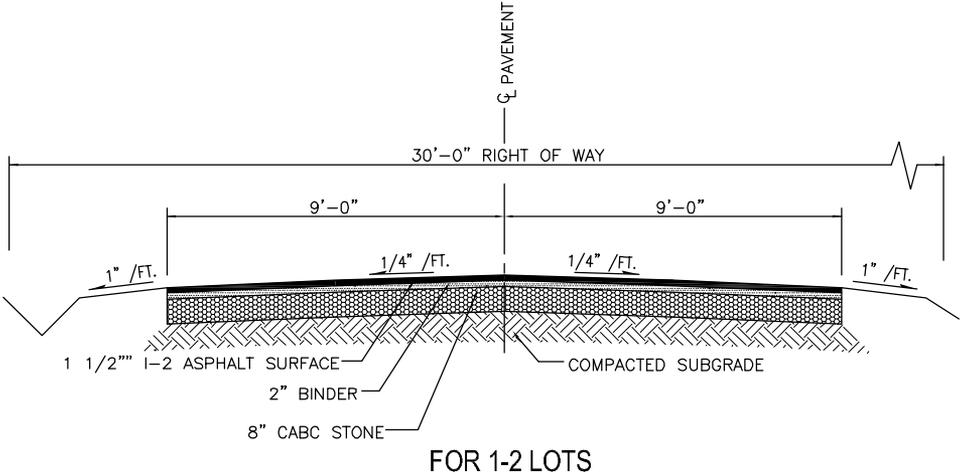
This handbook sets forth our expectations to citizens, engineers, developers and contractors and should be incorporated into plans and specifications for future projects.

The Town of Boone may elect to change, add or alter requirements to this handbook as situations in different scenarios present themselves.

It is the responsibility of the applicant to contact the Town of Boone Public Works Department prior to beginning work for scheduling inspections with our department and as work progresses. For some projects the Town of Boone may require the design engineer to certify all new construction.

You may contact us by phone at (828) 268-6230 or at our office located at 321 East King Street, Boone, NC 28607.

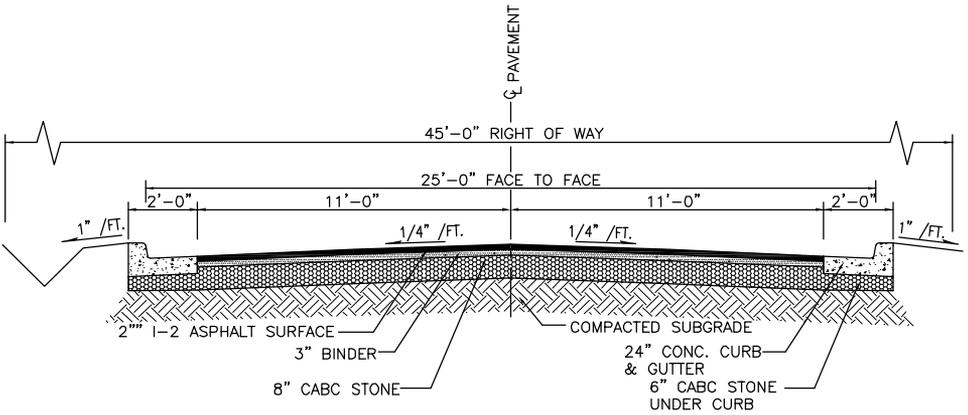
Private Street



Private Street

Not to Scale

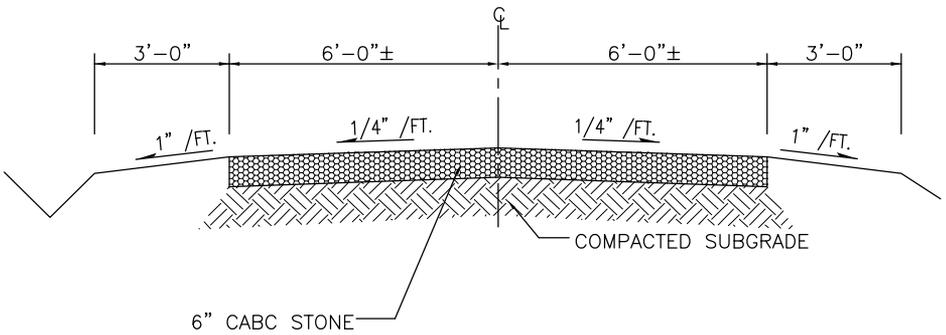
Access Corridor



Access Corridor

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Gravel Driveway



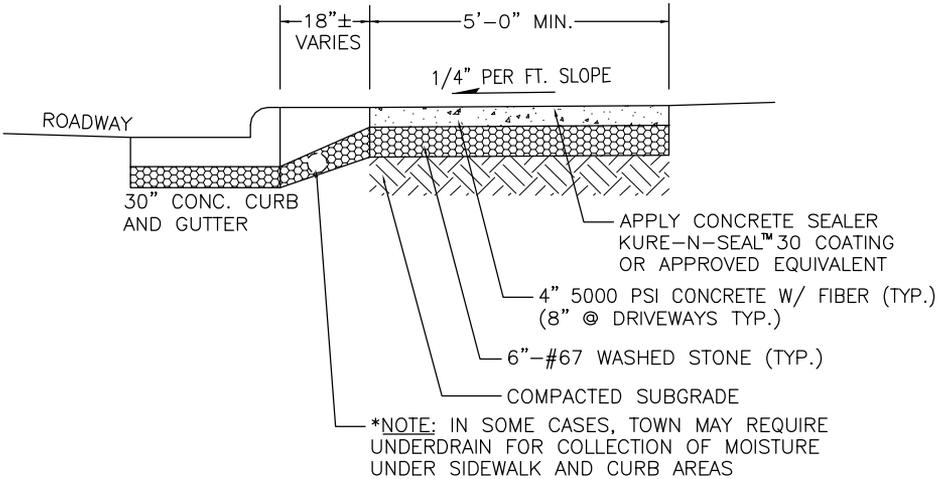
Gravel Driveway

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NOTES:

1. FOR PRIVATE RESIDENCE ONLY
2. PAVEMENT REQUIRED ON FIRST 25' FROM EDGE OF EXISTING STREET.

Typical Sidewalk



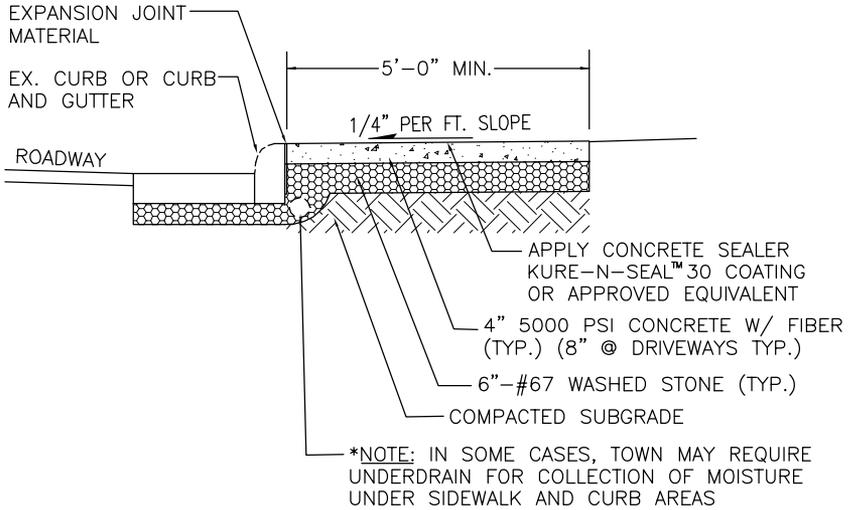
Typical Sidewalk

Not to Scale

NOTES: (APPLY TO ALL SIDEWALK DETAILS & CURBS)

1. HIGH PEDESTRIAN VOLUME MAY REQUIRE 7' WIDE SIDEWALK.
2. WHERE SIDEWALK WILL BE A PART OF THE GREENWAY TRAIL SYSTEM A 10' WIDE SIDEWALK MAY BE REQUIRED.
3. EXPANSION JOINT WILL BE REQUIRED AT ALL CONSTRUCTION JOINTS, CURBS & SIDEWALKS.
4. CONTROL JOINTS TO BE AT 5' INTERVALS FOR SIDEWALKS, 10' FOR CURB & GUTTER.

New Sidewalk By Existing Curb



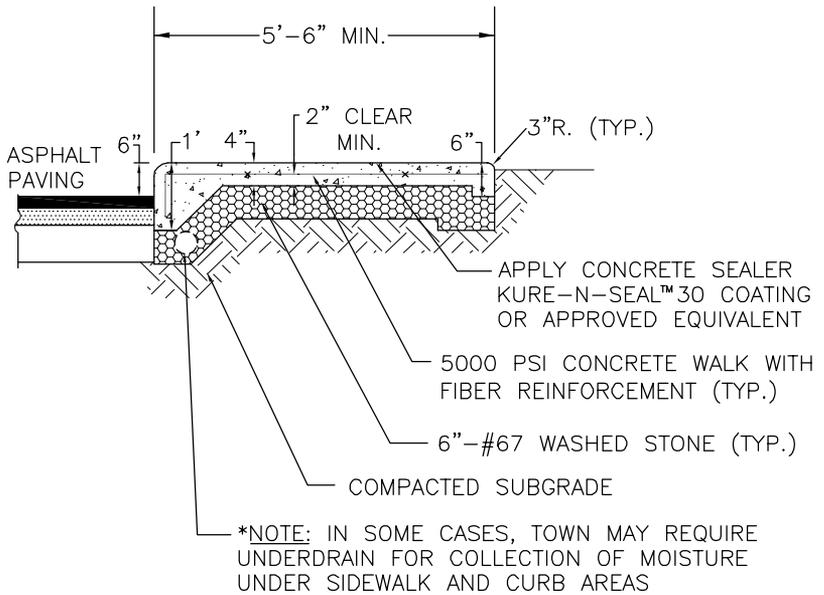
NOTE: TO BE USED WHERE ADJACENT
TO EX. CURB OR CURB AND GUTTER

New Sidewalk By Existing Curb

Not to Scale

SEE NOTES ON PG. 5

Sidewalk Curb Combination

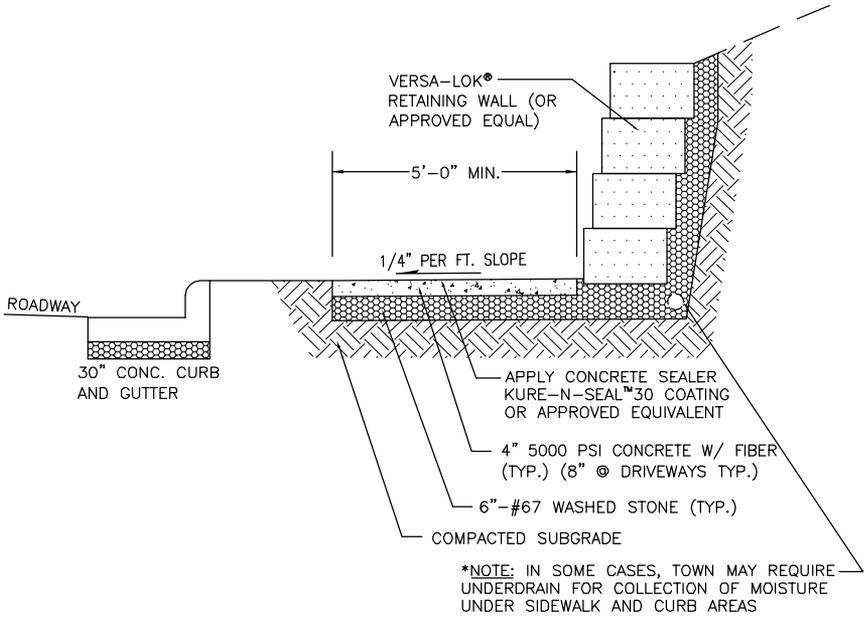


Sidewalk Curb Combination

Not to Scale

SEE NOTES ON PG. 5

Sidewalk Next to Retaining Wall

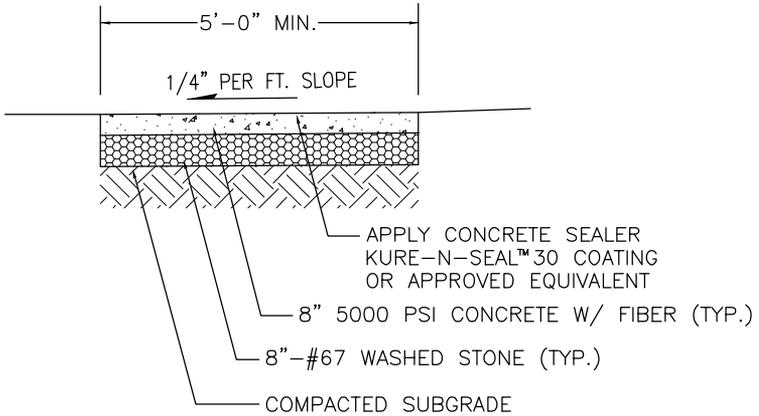


Sidewalk Next to Retaining Wall

Not to Scale

SEE NOTES ON PG. 5

Driveway Crossing



Reinforced Sidewalk Detail

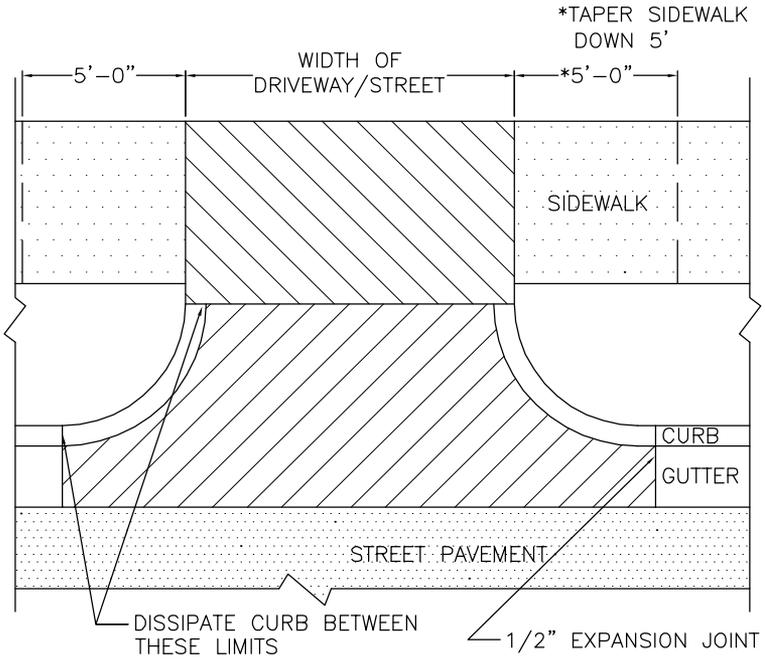
Not to Scale

NOTE:

1. WHERE SIDEWALKS ARE REQUIRED TO CROSS STREETS OR DRIVEWAYS, THIS REINFORCED SIDEWALK SECTION WILL BE REQUIRED.

SEE NOTES ON PG. 5

Sidewalk At Intersection



Sidewalk At Intersection

Not to Scale

Wheel Chair Ramps

TOWN OF BOONE COMPLIES WITH NCDOT STANDARDS ON WHEEL CHAIR RAMPS AND DETECTABLE WARNING DOMES.

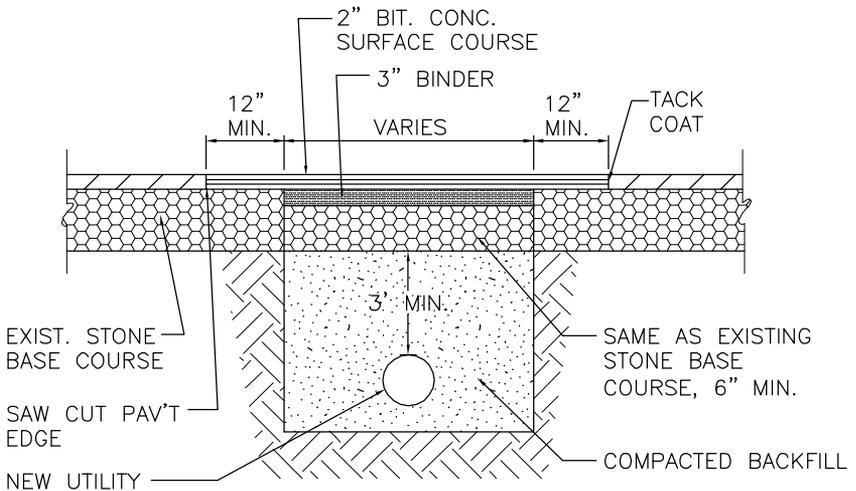
REFERENCE NCDOT STD. 848.05 WHEELCHAIR RAMP - CURB CUT AND
NCDOT STD. 848.06 WHEELCHAIR RAMP - RETROFITTING OF EXISTING CURB

SEE NCDOT.ORG FOR MORE INFORMATION

Maintenance, Repair & Replacement

GENERAL NOTES:

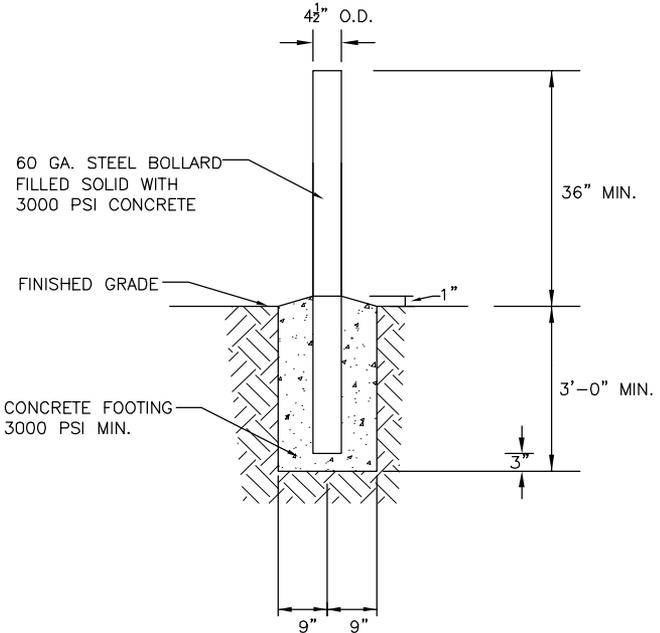
1. OWNER WILL GUARANTEE A ONE YEAR WARRANTY ON ALL ROADS, SIDEWALKS, ETC.
2. AFTER ONE YEAR, TOWN WILL ACCEPT MAINTENANCE ON ALL APPROVED WORK.
3. TOWN SHOULD BE NOTIFIED ABOUT ANY CUTS TO TOWN STREETS AND SIDEWALKS.



Bituminous Pavement Patching

Not to Scale

Bollard Detail



Bollard Detail

Not to Scale

Frequently Asked Questions

1. Why does the town require 5000 psi concrete?

Sidewalks constructed with 5000 psi concrete will hold up to the weight of utility contractors, town vehicles and delivery vehicles that often park on sidewalks.

2. Why does the town require 6" of gravel underneath sidewalks?

A solid gravel base will prevent vertical displacement of the sidewalk slab, in particular frostheave. Where the town has replaced sidewalks with vertical displacement or slab shift, there has been inadequate or no gravel base.

3. Why does the town require fiber reinforcement instead of welded wire fabric?

We feel that the fiber gives a more thorough reinforcement of the concrete. In sidewalks that the town has replaced, we have often found the WWF at the bottom of the sidewalk slab and not in the middle where it provides the most reinforcement.

4. Why does the town require sidewalks to be sealed?

This protects the sidewalks from the rigors of winter maintenance and prevents spalling.

5. When should I call for inspections?

Call prior to pour and after finished product is complete.

6. Will the town take over maintenance of my street if it does not meet the standards in this handbook?

No, in most cases the town will require you to upgrade your road to the standards set forth in this handbook before they will take over maintenance on your street.