

Basis of Design

This section applies to the design and construction of sidewalks.

Design Criteria

- Sidewalks at the University of Washington are used by both pedestrians and light trucks.
- Sidewalks can be constructed using concrete or asphalt for the top surface.
- Concrete shall be air-entrained 3000 psi, with a minimum thickness of 4 inches. Joint details and joint layout shall be in accordance with Standard Plan 420.
- Asphaltic Concrete shall be Class B, with a minimum thickness of 4 inches. Use tack coat between all concrete surfaces and new asphaltic concrete. Place tack coat on the surface between all joints to concrete or other asphaltic concrete.
- Place all sidewalks over a minimum of 3 inches of Crushed Surfacing Top Course.

Design Evaluation

The following information is required to evaluate the design:

- Design Development Phase: Show area of concrete and asphalt sidewalks. Show cross section of sidewalk. Provide preliminary specifications for all paving materials.
- Construction Document Phase: Details and specifications.

Construction Submittals

- Design mix for Asphaltic Concrete or Cement concrete
- Gradation for Crushed Surfacing Top Course

Related Sections

- Facilities Services Design Guide - Roadways

Products, Material and Equipment

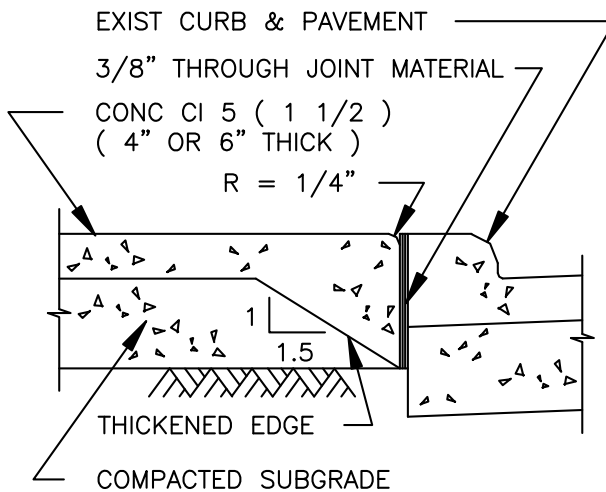
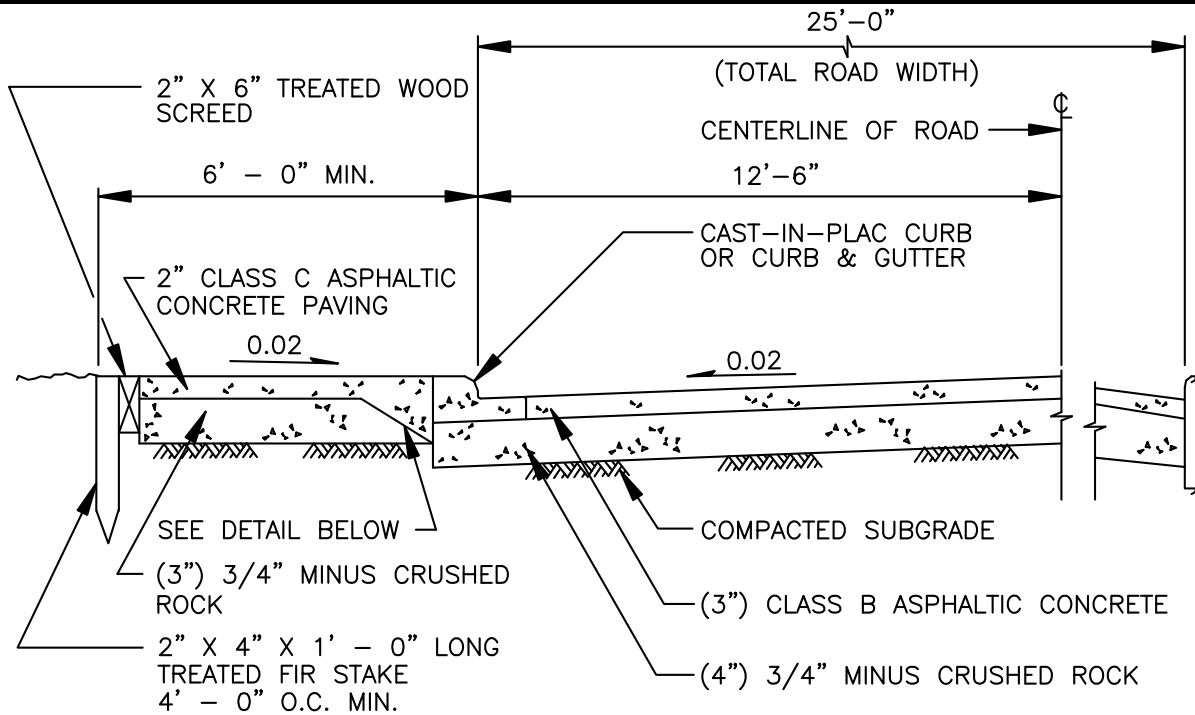
- Portland cement shall conform to requirements of ASTM C-150.
- Sand shall conform to the requirements of ASTM C 33.
- Provide asphalt grade of AR-2000 or AR-4000.
- Manufacture mineral aggregate from materials meeting the Los Angeles Wear (ASTM Designation C 131) 50 Rev. 30%.

Installation, Fabrication and Construction

- The University of Washington shall retain a testing lab to verify sub grade compaction, slump, and strength of concrete, etc.

- Place concrete or asphalt on Crushed Surfacing Top Course which is compacted to 95% modified proctor.
- After edging the PCC sidewalk, brush it with a fiber hair brush in a transverse direction.
- Cure the PCC sidewalk by an approved liquid curing compound.
- See Sidewalk Wheelchair Ramp drawing.

END OF DESIGN GUIDE SECTION

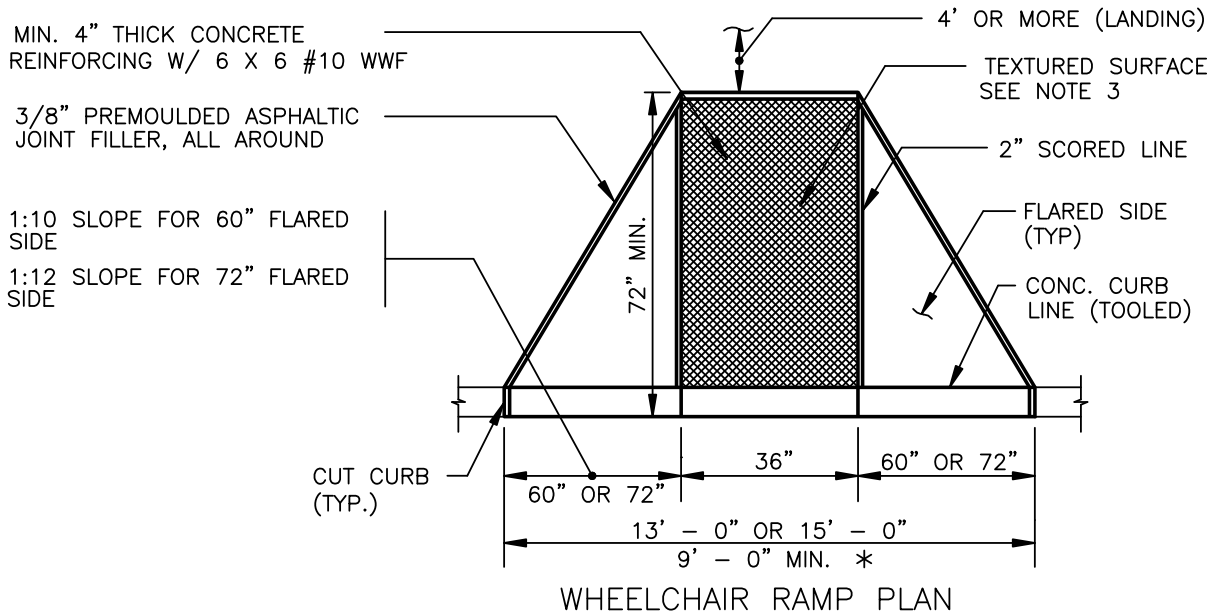
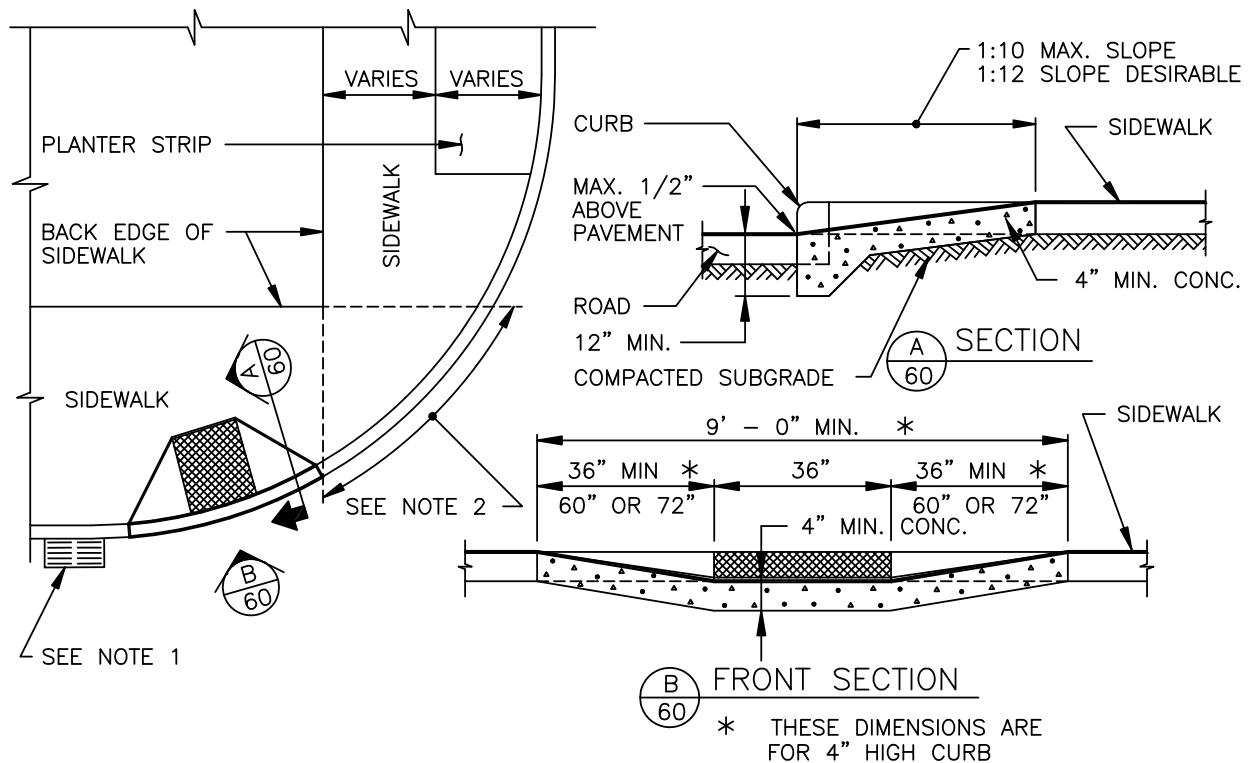


DETAIL

NOTE : THIS DETAIL IS FOR CONCRETE
 SIDEWALK, BUT DETAILS ARE SIMILAR
 TO ASPHALTIC CONCRETE SIDEWALK

SD-C-53

Roadway and Sidewalk Cross Section



NOTES :

1. CATCH BASIN SHALL BE OUTSIDE THE WHEEL CHAIR RAMP. (24" MIN. CLEARANCE FROM RAMP)
2. WHEEL CHAIR RAMP SHOULD NOT ENCROACH INTO THE AREA FORMED BY THE PROJECTION OF THE BACK SIDE OF THE SIDE WALKS.
3. THE RAMP MUST HAVE A COURSE TEXTURED SURFACE APPROVED BY THE UNIVERSITY. (TO BE A DIAMOND MESH PATTERN, FULL LENGTH EXCEPT FOR CURB WIDTH AND SCORED EDGE.

SD-C-60

Sidewalk Wheelchair Ramp