

DESIGN STANDARDS

1. **GENERAL:** This section provides design guidelines for the placement, use, and construction of concrete sidewalks, curbs, and wheel stops.
 2. Sidewalks: For new projects, provide sidewalks, both formal and informal consistent with the campus master plan and approved by the University project manager.
 - 2.1 All campus sidewalks are to receive an exposed aggregate finish.
 - 2.1.1 Aggregate to be exposed shall be hard, sound, durable, and free of deleterious materials and staining qualities.
 - 2.1.2 The selected seeding aggregate shall be stored off the ground and protected from moisture.
 - 2.1.3 The aggregates shall match color, size and gradation of the aggregate used in the exposed sidewalks and existing paving in the immediate vicinity of the project.
 - 2.1.4 Approved suppliers are:
 - South Texas Stone, Houston, TX (713.465.3394); Using 3/8" – 5/8" Brown Pea Gravel
 - San Jacinto Stone, Houston, TX (713.868.3466); Using 3/8" – 5/8" Bronze Pea gravel
 - 2.2 Sidewalks are typically 5" thick and 8' in width with treated pine expansion joints at spacing roughly equal to the sidewalk width, with 8' being the desired width where adjacent to road ways or on a major pedestrian route.
 - 2.3 Sidewalks shall be constructed with 1/8" cross slope (toward street where parallel) to promote drainage.
 - 2.4 Place 1" sand bed under sidewalk where tree roots are close to surface. Place 2' wide 4 mil min. sheet plastic centered over root under the sand bed.
 - 2.5 Architect to work with consulting engineers to avoid placement of clean-outs, grates, and man-holes located in sidewalk.
3. **Curbs:** All curbs to be concrete job formed and finished (extruded curbing is not permitted).
 - 3.1 Curb height to be 6" typically and maximum of 7". The Typical curb width shall be 6".
 - 3.2 Curbing shall not create barriers for the handicapped.
4. **Curb Ramps:** Provide curb ramps at corners of all road intersections and wherever a sidewalk crosses streets or drive. When installed at intersections, provide ramps consistently placed and oriented to provide repetitive approach to the blind. Locate curb ramps to direct pedestrian traffic into crosswalk areas.
 - 4.1 Curb ramps at exposed aggregate sidewalks are to be constructed of natural gray concrete (no exposed aggregate) with horizontal score joints 2" on center perpendicular to the main scope. At natural gray concrete finished side walks curb ramps are to be a dark gray concrete from addition of color pigments of the same construction. Slopes and other construction details are to meet prevailing TAS accessibility standards. Provide cross slope and vertical scoring at ends of horizontal scoring to promote drainage.

**DIVISION 2
CONCRETE SIDEWALKS, CURBS & WHEEL STOPS**

02500-2

5. Wheel Stops: Provide precast concrete wheel stops installed in accordance with the manufacturer's standards at locations where wheeled vehicles may roll into pedestrian or hazardous area.
 - 5.1 Wheel stop locations shall not create a barrier for the handicapped.
 - 5.2 Wheel stop layout shall be coordinated with site drainage to avoid ponding.

6. Roadway Construction: A geotechnical consultant shall be engaged to evaluate the soil conditions for new or replacement road construction. The new road construction shall be cast in place concrete on a prepared base with an asphalt topping and shall be engineered to respond to the recommendations in the geotechnical report.

End of Division 2 – Concrete Sidewalks, Curbs & Wheel Stops