

16.0

COMMUNITY TRAILS

Definitions

Community Trails are both a recreational facility and a non-vehicular traffic route. Community trails provide for a variety of recreational experiences, are universally accessible and are included in all land use designations throughout the city.

Standards

Community Trails shall be located throughout the City as identified in the Leisure Facilities Strategic Plan, Community Plans, Greenspace Management Plans, Kitchener Bikeway Study and Plans of Subdivision. The primary corridors for Community Trails are provided by hydro corridors, floodplains, stream courses, parks, stormwater management areas, abandoned railway lines, woodlands, wetlands and other natural areas.

Planning and Engineering:

Community Trails are a component of the urban infrastructure and are a requirement within all Plans of Subdivision.

Community Trails and the requirements to implement these facilities shall be considered in the preparation of:

- City of Kitchener Subdivision Manual
- Community Plans
- Greenspace Management Plans
- Environmental Impact Statements for Subdivisions
- Draft Plans of Subdivision
- Grading Control Plans for Subdivisions
- Subdivision Agreements

The planning, design, engineering and final grading of all Community Trail routes shall be provided by the developer in all Plans of Subdivision.

Trail Grading Requirements:

Grade:

- 5% preferred
- 8% maximum
- 20% maximum over distances of one meter or less

Cross Slope:

- 2% preferred
- 5% maximum
- 10% maximum over distances of one meter or less

Width:

- Rough grading - 4.0 meters
- Trail Surface – 3.0 meters

Excavation:

Existing soil topsoil shall be removed to a depth of 0.3 meters (300mm) to provide for surfacing material installation. Unsuitable soil shall be removed to additional depths as required and replaced with structural fill and compacted to 95% spd.

Excavation may be deleted in woodlands or other areas where damage to tree roots or other vegetation would occur. Filling only with trail surfacing is acceptable in these instances.

Drainage:

Concentrated surface runoff shall not be directed across or along the proposed trail surface. Swales or culverts shall be provided within the trail corridor.

Surfacing:

The sub-grade shall be compacted to 95% spd, except in woodlands. Granular base course of 50mm gravel to a depth of 200mm. Surface of recycled asphalt to a depth of 50mm or other surfacing as required for slope

conditions, including oil and chip, hot laid asphalt and boardwalks.

Erosion:

Re-vegetation of graded trail corridor shall be provided to prevent soil Erosion.

Accessibility by the physically challenged shall be considered in the location and grading of Community Trails. All trails need not be accessible to the physically challenged, but a representational experience of all natural areas must be provided to all trail users. Alternative routes shall be identified which are accessible to the physically challenged if the primary trail is not.

Vehicle Control Barriers:

Bollards and standard park gates are required at all intersections with roadways or other vehicle routes to control vehicle access and user safety.

Signage:

Standard post type signage is required at all roadway intersections.

Details:

Figure 16.1: Community Trail Entrance Sign

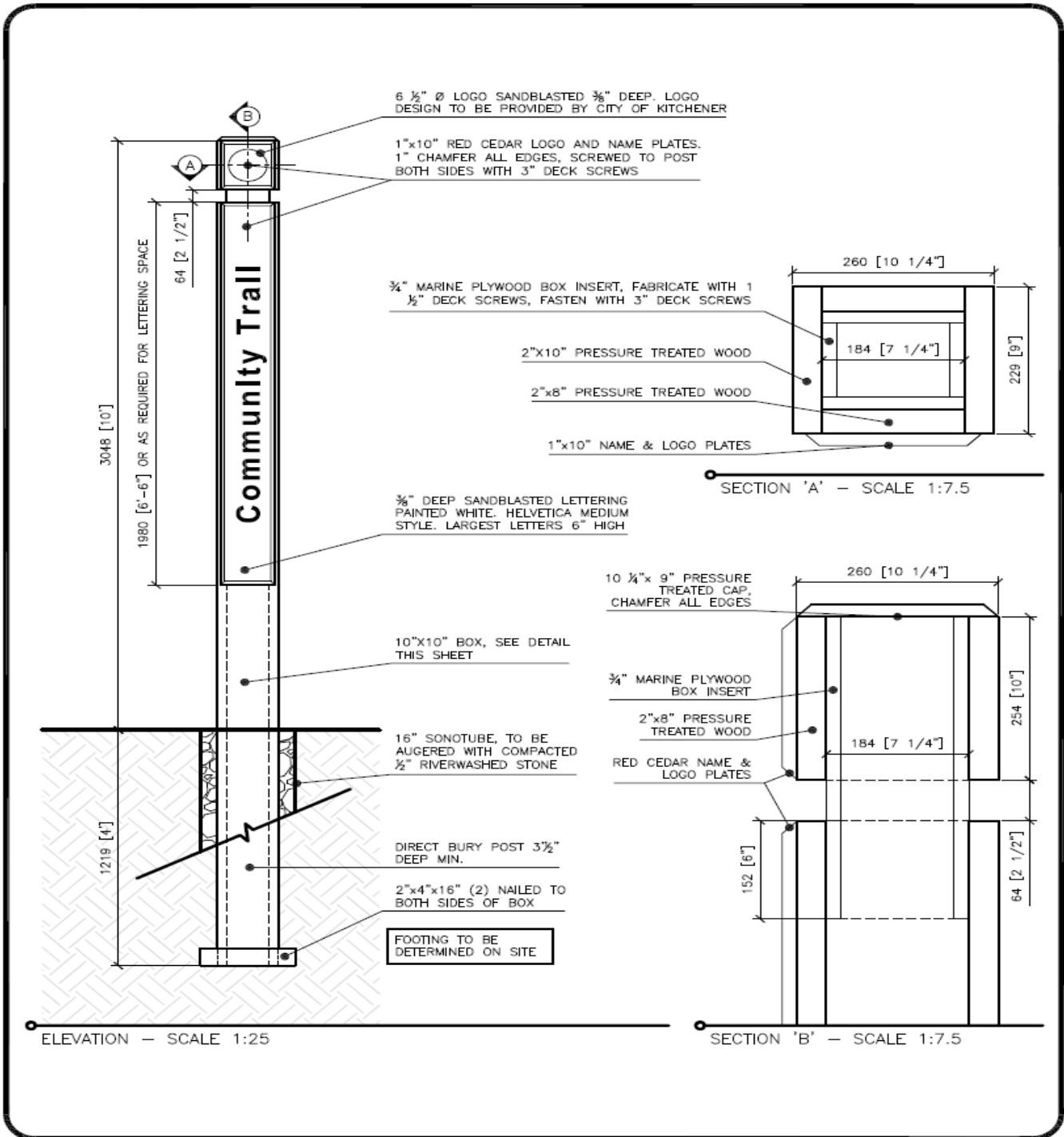
Figure 16.2: Community Trail Road Crossing

Figure 16.3: Community Trail Bollard

Figure 16.4: Community Trail Asphalt Paving

Figure 16.5: Community Trail Stonedust Paving

Figure 16.6: Community Trail Metal Gate



Date: Mar. 25, 2010 - 12:13 pm Plotted by: markpa Filename: S:\Secured\Design & Development\5 - AutoCAD Library\4 - Details\800 - Signage\800.10.5 - ENTRANCE-SIGN - TRAIL.dwg

DRAWING TITLE: ENTRANCE SIGN - COMMUNITY TRAIL			
DESIGN N.A.	LAST REVISED March 25, 2010	SCALE AS SHOWN	DWG No. 800.10.5
DRAWN M. PARRIS	PLOT DATE March 25, 2010	FILE NAME ENTRANCE-SIGN - TRAIL.dwg	

Figure 16.1: Community Trail Entrance Sign

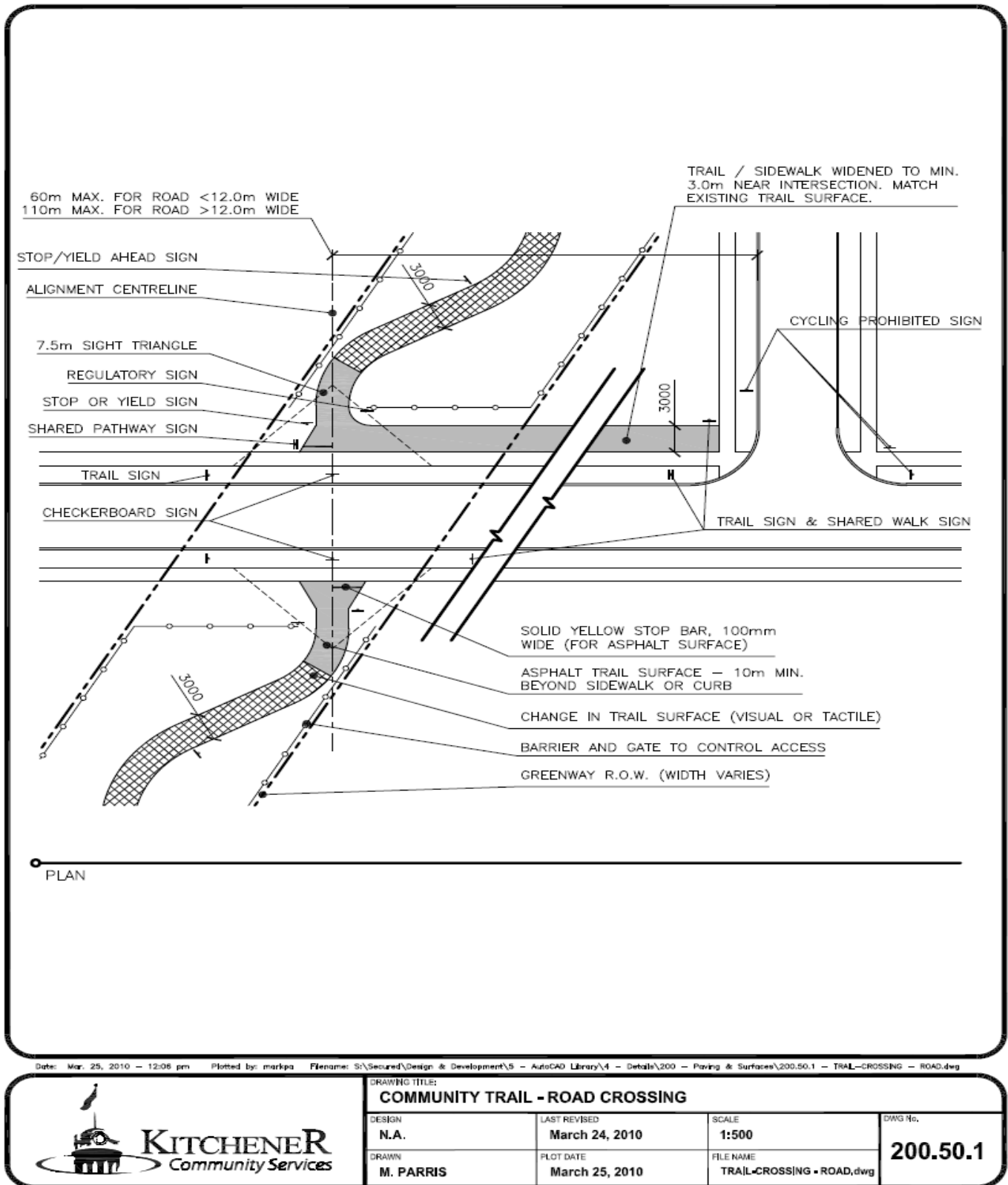
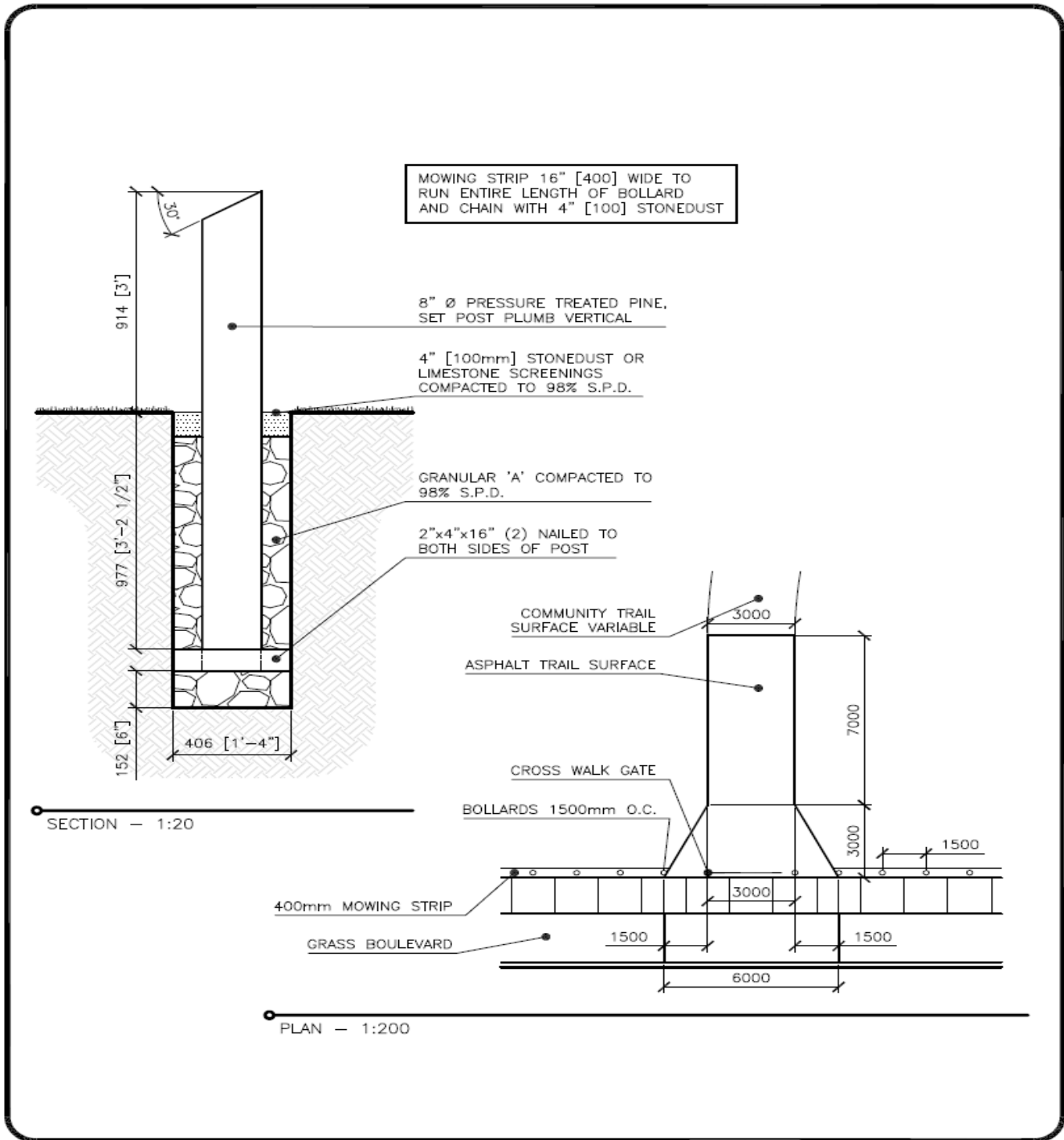


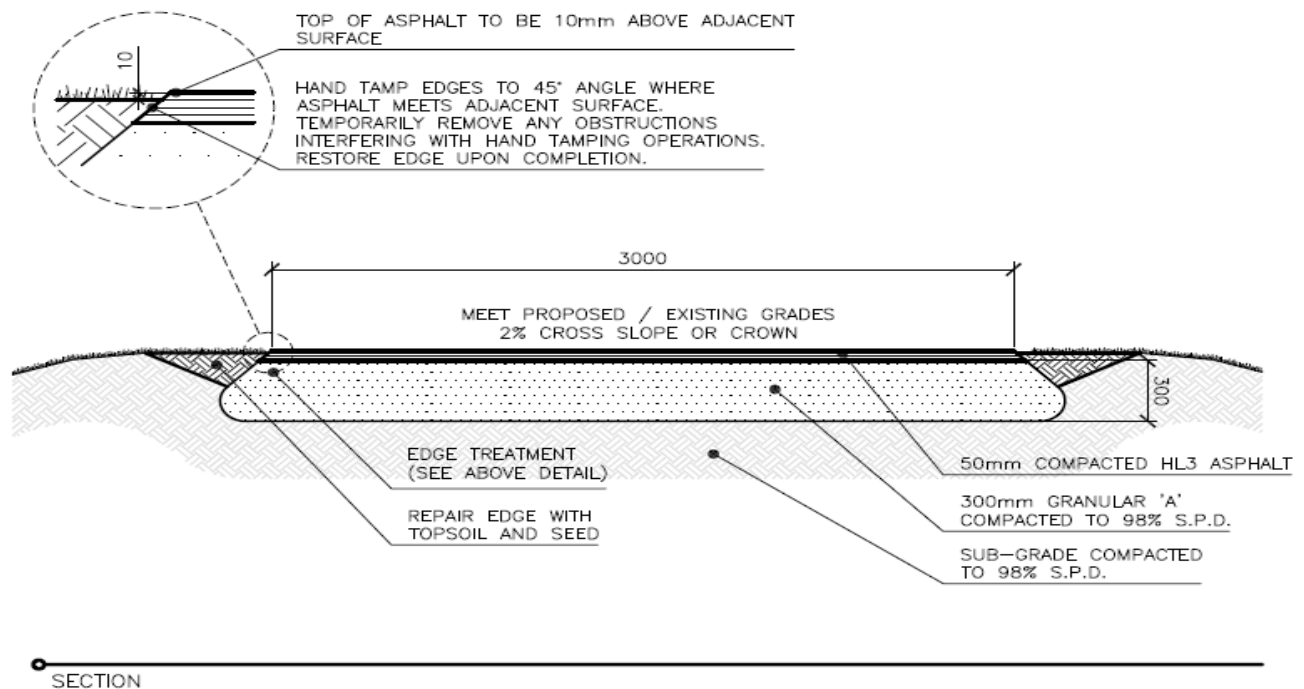
Figure 16.2: Community Trail Road Crossing



Date: Mar. 25, 2010 - 1:07 pm Plotted by: maripa Filename: S:\Secured\Design & Development\3 - AutoCAD Library\4 - Details\400 - Fencing & Guards\400.60.3 - BOLLARD - TRAIL.dwg

	DRAWING TITLE: TRAIL BOLLARD			400.60.3
	DESIGN M. PARRIS	LAST REVISED March 25, 2010	SCALE AS SHOWN	
	DRAWN M. PARRIS	PLOT DATE March 25, 2010	FILE NAME BOLLARD - TRAIL.dwg	
	DWG No.			

Figure 16.3: Community Trail Bollard



NOTE: EXCAVATE TO MINIMUM DEPTH OF 14" [350mm] OR END OF TOPSOIL LAYER TO A MAXIMUM DEPTH OF 32" [800mm]. FILL ADDITIONAL EXCAVATED TOP SOIL WITH COMPACTED GRANULAR 'B' BASE TO A MAXIMUM DEPTH OF 18" [450mm]

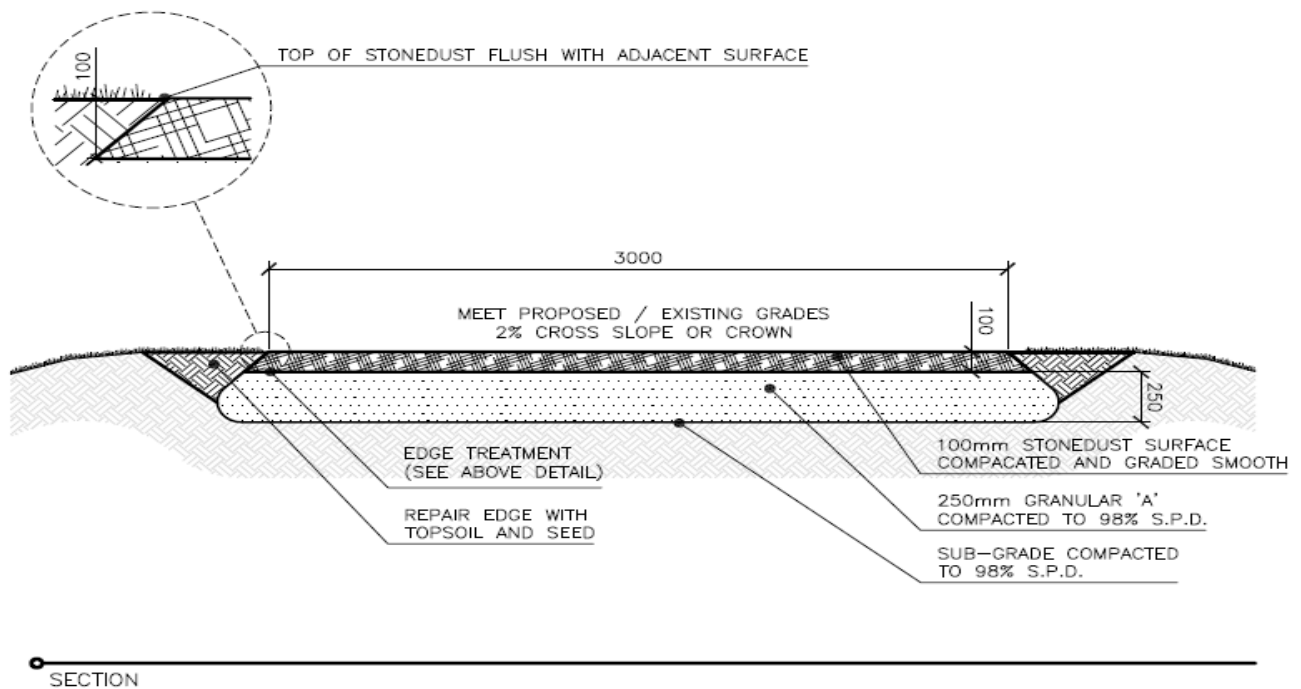
Date: Mar. 25, 2010 - 12:04 pm Plotted by: markpa Filename: S:\Secured\Design & Development\5 - AutoCAD Library\4 - Details\200 - Paving & Surfaces\200.40.1 - ASPHALT-PATH.dwg



DRAWING TITLE:
ASPHALT PAVING - TRAIL

DESIGN M. PARRIS	LAST REVISED March 25, 2010	SCALE 1:30	DWG No. 200.40.1
DRAWN M. PARRIS	PLOT DATE March 25, 2010	FILE NAME ASPHALT-PATH.dwg	

Figure 16.4: Community Trail Asphalt Paving



NOTE: EXCAVATE TO MINIMUM DEPTH OF 14" [350mm] OR END OF TOPSOIL LAYER TO A MAXIMUM DEPTH OF 32" [800mm]. FILL ADDITIONAL EXCAVATED TOP SOIL WITH COMPACTED GRANULAR 'B' BASE TO A MAXIMUM DEPTH OF 18" [450mm]

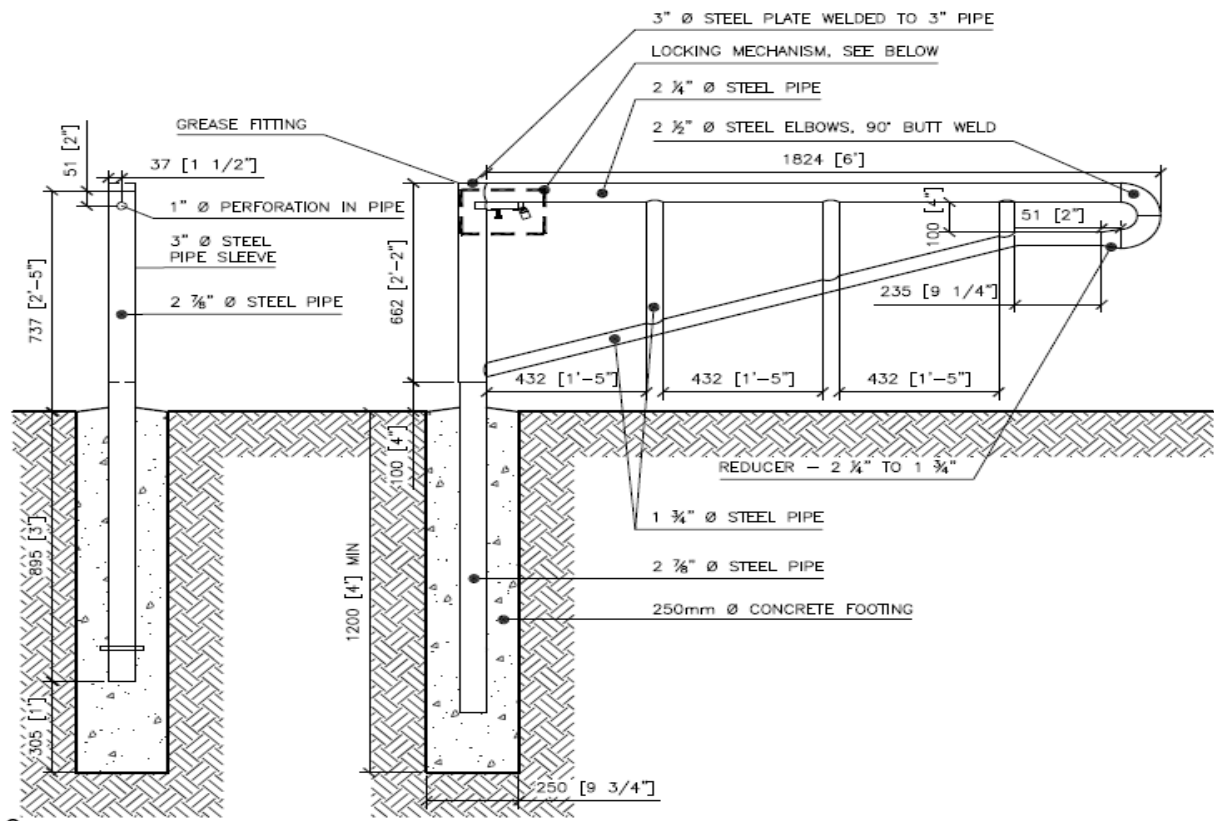
Date: Mar. 25, 2010 - 12:05 pm Plotted by: markpa Filename: S:\Secured\Design & Development\5 - AutoCAD Library\4 - Details\200 - Paving & Surfaces\200.40.4 - SONTE-DUST-PATH.dwg



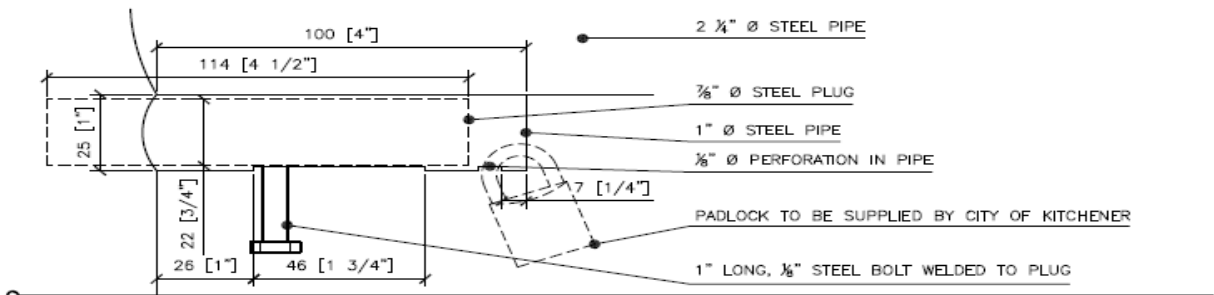
DRAWING TITLE:
STONEDUST PAVING - TRAIL

DESIGN	LAST REVISED	SCALE	DWG No.
M. PARRIS	March 25, 2010	1:30	200.40.4
DRAWN	PLOT DATE	FILE NAME	
M. PARRIS	March 25, 2010	SONTE-DUST-PATH.dwg	

Figure 16.5: Community Trail Stonedust Paving



ELEVATION – SCALE 1:20



DETAIL – SCALE 1:2

- NOTES:
1. ALL CONNECTIONS ARE WELDED WITH COMPLETE SOLID WELD
 2. ALL STEEL ON GATES TO BE HOT DIPPED GALVANIZED AFTER FABRICATION

Date: Mar. 24, 2010 – 9:10 am Plotted by: ashleyd Filename: \\CONF2\Operations\Secured\Design & Development\9 – AutoCAD Library\4 – Details\400 – Fencing & Guards\400.40.2 – GATE-PARK.dwg

	DRAWING TITLE: METAL GATE - TRAIL			DWG No. 400.40.2
	DESIGN N/A	LAST REVISED February 8, 2010	SCALE AS SHOWN	
	DRAWN M. PARRIS	PLOT DATE March 24, 2010	FILE NAME GATE-PARK.dwg	

Figure 16.6: Community Trail Metal Gate