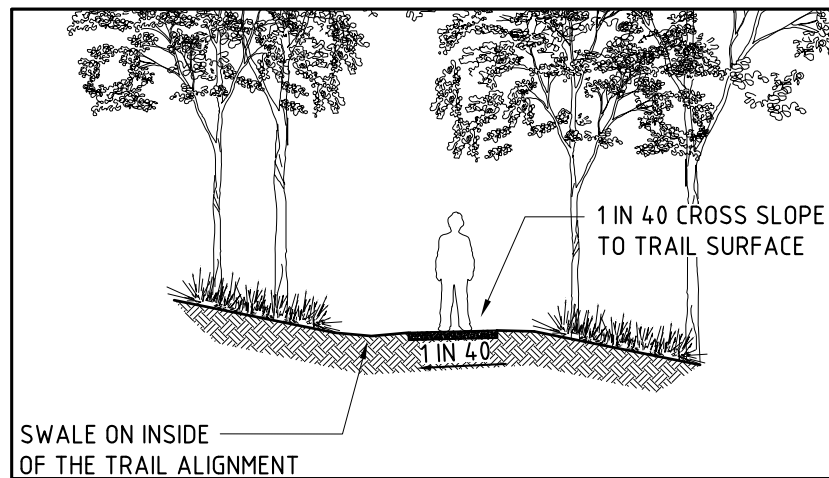


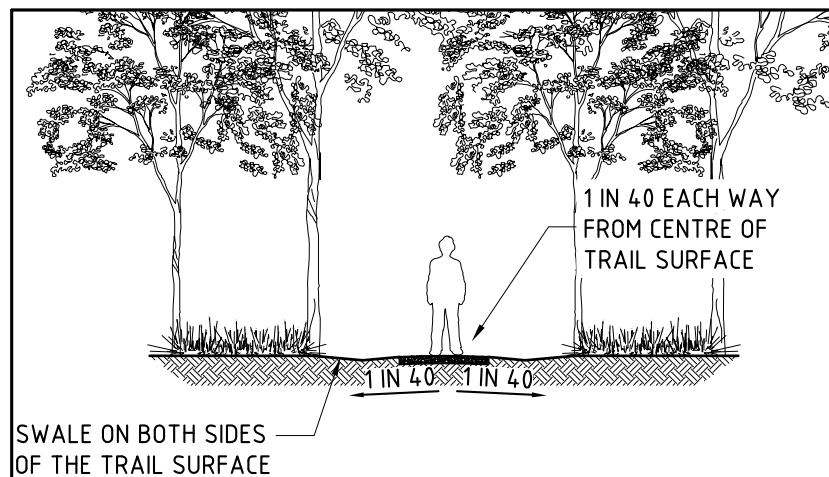
SURFACE WATER CAN BE INTERCEPTED BY CROWNING OR CROSS-SLOPE IF THE SURFACE MATERIAL IS RESISTANT TO EROSION

CROSS SLOPE SECTION



SWALE ON INSIDE OF THE TRAIL ALIGNMENT

CROSS SLOPE AND SWALE SECTION



SWALE ON BOTH SIDES OF THE TRAIL SURFACE

CROWNING AND SWALE SECTION

TRACK GRADING AND DRAINAGE

SURFACE WATER DRAINAGE AND GRADING IS AN INTEGRAL PART OF WALKING TRACK CONSTRUCTION. IT WILL BE NECESSARY TO INSERT DRAINAGE INTO THE WALKING TRACK AT EVERY POSSIBLE OPPORTUNITY. IN MOST CASES THE TRACK GRADIENT WILL DECIDE THE TYPE OF DRAINAGE NECESSARY.

THE GRADE ALONG ANY SECTION OF TRACK SHOULD NOT EXCEED 1 IN 7.5 (14%). THE GRADE OF 1 IN 7.5 (14%) SHOULD ONLY BE USED WHERE ABSOLUTELY NECESSARY AND SHOULD ONLY BE USED AFTER CONSULTATION WITH THE PROJECT MANAGER. THE USE OF THIS GRADE WILL INCREASE THE FREQUENCY OF CROSS DRAINS NEEDED IN THE WALKING TRACK.

ALL CROSSINGS ACROSS WATERWAYS ARE TO BE:

- BRIDGED
- WHERE SUITABLE INFRASTRUCTURE EXISTS THESE NEED TO BE CERTIFIED SUITABLE FOR THE PARTICULAR USE WHERE SUITABLE IN-STREAM CAUSEWAYS MAY BE APPROPRIATE FOR MINOR WATERWAYS WHERE EXISTING HARDENED ACCESS IS AVAILABLE DOWN THE WATERWAY BANK. JUSTIFICATION IS TO BE PROVIDED IF THESE ELEMENTS ARE TO BE USED IN THE TRAIL DESIGN.

ALL SIGNIFICANT TREES EG GREATER THAN 200 DBH, ARE TO BE LOCATED AND THE TRAIL IS TO COMPLY WITH SECTION 5.2 OF THE RECREATION TRAILS GUIDELINES.

A TRAILS DESIGN PLAN IS TO BE COMPLETED AND SUBMITTED TO THE DELEGATED AUTHORITY FOR ASSESSMENT. THIS PLAN IS TO INCLUDE:

- A CLEAR DEPICTION OF SITE LOCATION & EXTENT OF WORKS.
- A SCALED CONTOUR MAP.
- A DETAILED DESCRIPTION OF THE SITE, INCLUDING PROXIMITY TO PRIVATE PROPERTY AND ADJACENT LAND USE.
- LOCATION OF ALL SIGNIFICANT VEGETATION AND HABITATS WITHIN THE PROPOSED TRAILS CORRIDOR EG WITHIN 30 METRES OF THE EDGE OF THE DISTURBANCE LINE FOR THE TRAIL.
- DETAILS OF THE TRAIL HEAD INCLUDING ANY PARKING, ACCESS DESIGN AND DESIGN.
- THE CLASS, USER GROUP AND SETTING OF THE TRAIL.
- THE TRAIL DESIGN SPECIFICATIONS INCLUDING ENGINEERING CERTIFICATION OF ALL TRAIL STRUCTURES EG BRIDGES, BOARDWALKS AND PLATFORMS.
- SUMMARY OF CONSULTATION PROCESS INCLUDING STAKEHOLDERS CONSULTED.
- ENVIRONMENTAL MANAGEMENT PLAN INCLUDING VEGETATION MANAGEMENT, DECLARED & ENVIRONMENTAL WEED MANAGEMENT, FAUNA HABITAT MANAGEMENT (AQUATIC AND TERRESTRIAL), EROSION AND SEDIMENT CONTROL; HYDRAULIC MANAGEMENT.
- SOCIAL IMPACT MITIGATION PRACTICES.
- USER IMPACT MANAGEMENT.

A SITE REHABILITATION PLAN MUST BE PREPARED WITH THE TRAILS DESIGN PLAN TO REHABILITATE THE TRAILS CORRIDOR DURING AND FOLLOWING CONSTRUCTION.

A SIGNAGE PLAN IS TO BE ATTACHED TO THE TRAILS DESIGN PLAN IDENTIFYING TYPE, MATERIALS AND LOCATION OF ANY PROPOSED SIGNAGE:

- DIRECTION SIGNAGE MUST CONFORM TO AUSTRALIAN STANDARDS FOR WALKING TRACKS PART 1 (AS2156.1-2001) AND COUNCIL'S DESIGN MANUAL AND ASSOCIATED STANDARD DRAWINGS. THE FREQUENCY OF SUCH SIGNAGE IS SET OUT IN THE TRAIL CLASSIFICATION TABLE (TABLE 2).
- INTERPRETIVE SIGNAGE SHOULD BE A FEATURE OF ALL TRAILS, ESPECIALLY THOSE IN CLASS 1 (AND TO A SLIGHTLY LESSER EXTENT CLASS 2). IT SHOULD GENERALLY BE OF A VANDAL-PROOF FORM SUCH AS ANODISED ALUMINIUM.
- REGULATORY SIGNAGE SHOULD BE LOCATED AT THE TRAILS HEADS TO INFORM THE TRAIL USER OF THE CONDITIONS OF USE CONSISTENT WITH NAMU SIGNAGE GUIDELINE.

ALL DIMENSIONS IN MILLIMETRES (U.N.O).



THIS DRAWING IS NOT TO BE AMENDED WITHOUT REFERENCE TO STANDARDS COMMITTEE				CONTROLLED DOCUMENT	DO NOT SCALE TAKE FIGURED DIMENSIONS ONLY
No.	AMENDMENT	APPROVED	DATE	ISSUED	DRAFTING BY TECHNICAL SERVICES BRANCH
					PASSED - COORDINATOR OPEN SPACE ASSETS SIGNED: NAME: CAMERON TAYLOR DATE: 6/12/12
					APPROVED - MANAGER PARKS & RECREATIONAL SERVICES SIGNED: NAME: RON JACOBS DATE: 6/12/12

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