

TITLE

PROPOSED TRAILS  
(AERIAL VIEW)

CLIENT



CREATED BY

Angharad Wylie

REVIEWED BY

Bruce Mans

APPROVED BY

Bruce Mans

DATE

10/31/2019

NOTES

Proposed Trails:

Nichols Lake Falls Trail



Nichols Lake Trail  
Phase 1 -  
Community Centre



Western Common  
Phase 1



NORTH



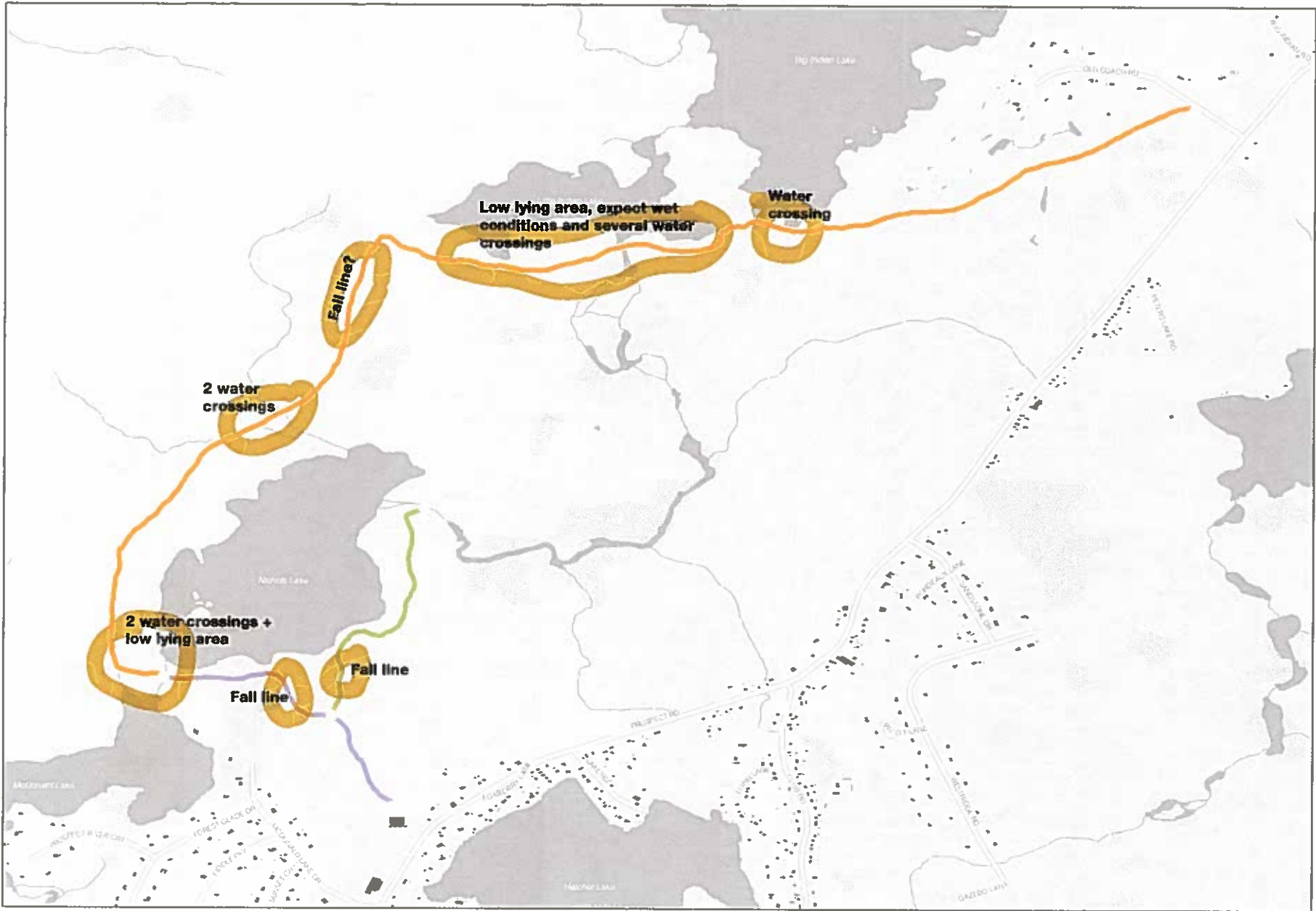
SCALE

0 250 m 1:15,000

MAP #







**UPLAND**

© King Street  
 Delmar, DE 19741  
 302.437.0464  
 www.kingstreet.com

TITLE

**PROPOSED TRAILS  
 (MAP VIEW)**

CLIENT



CREATED BY

Angharad Wylie

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10/31/2019

NOTES

Proposed Trails

Nicholls Lake Falls Trail



Nicholls Lake Trail

Phase 1 -

Community Center



Western Common

Phase 1



NORTH



SCALE



MAP #

**Western Common  
Recommended Trail Construction Costs  
July 20, 2009**

Trail construction costs will be determined by topography and drainage conditions along the selected route. The following recommended costs are based on average unit rates from recent experience with trail construction and provided for budget and planning purposes only.

**Shared-Use Trail (Motorized Vehicles, max. design speed 50 km/h)**

- avg. width 12 feet
- trail surface compacted Type 1 gravel
- route selected to avoid gradients steeper than 15%
- allowance made for design / construction to "off-road vehicle" standards including
- engineering of plan and profile, cut and fill, stabilization of side slopes, subsurface drainage
- no allowance for water / wetland crossings
- recommended unit rate: \$130.00 / lineal foot

**Shared-Use Trail (No Motorized Vehicles, max. design speed 20 km/h)**

- avg. width 10 feet
- trail surface crusher dust on compacted Type 1 gravel base
- route selected to avoid gradients steeper than 10%
- no allowance for water / wetland crossings
- recommended unit rate: \$40.00 / lineal foot

**Barrier-Free Trail**

- avg. width 6 feet
- trail surface crusher dust on compacted Type 1 gravel base
- route selected to avoid gradients steeper than 5% (i.e. no ramps, curbs or rails required)
- no allowance for water / wetland crossings
- recommended unit rate: \$25.00 / lineal foot

**Back-Country Hiking Trail**

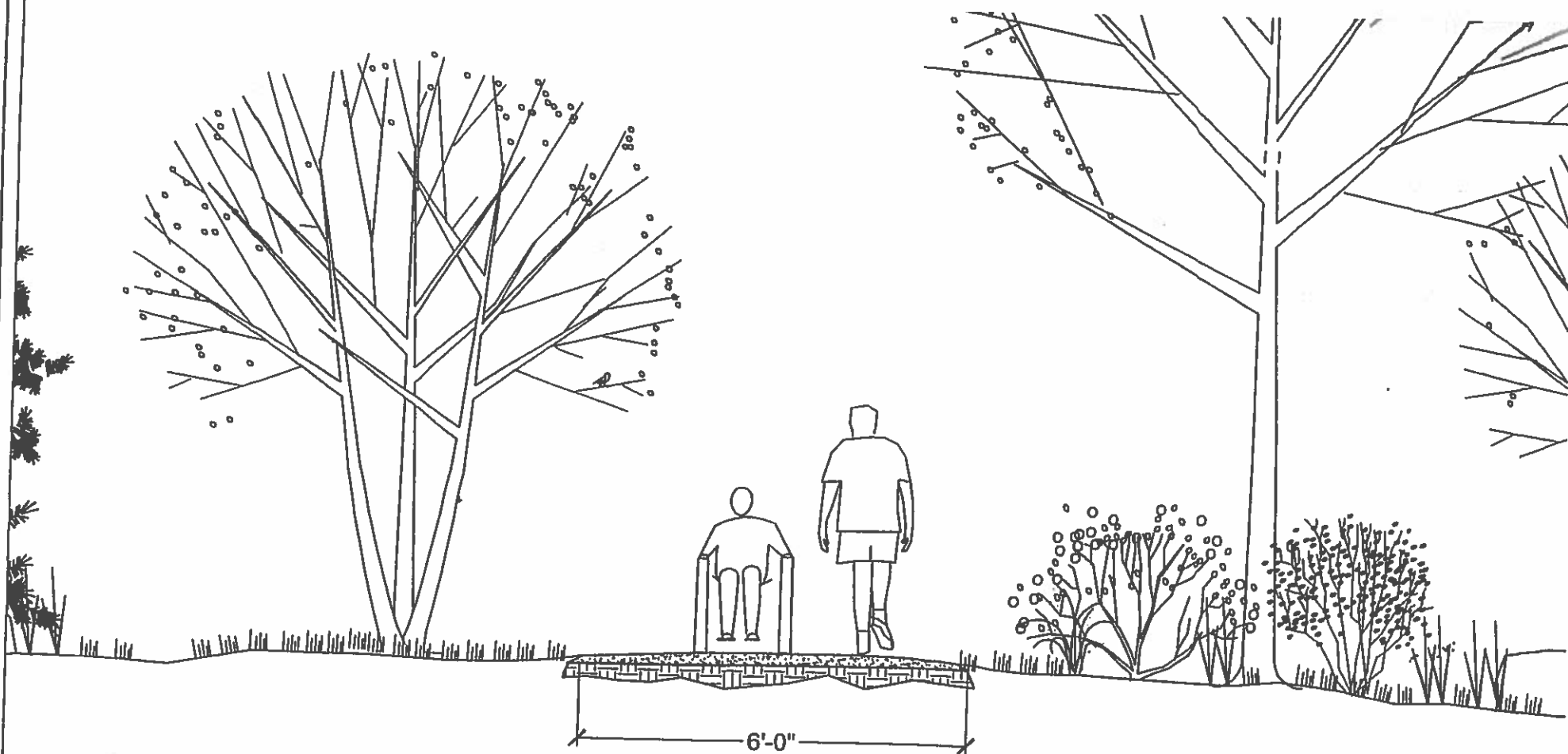
- avg. width 24 inches
- trail constructed with natural / site materials
- minimal site disturbance
- allowance included for access to remote locations
- recommended unit rate: \$10.00 / lineal foot

**Bridges**

- wood deck, steel span with abutments
- recommended unit rate: \$170.00 / square foot

**Wetland Crossings**

- boardwalk on piles
- recommended unit rate: \$100.00 / square foot



- TRAIL SURFACE - 6'-0" WIDE MIN.
- ASPHALT / BOARDWALK / CRUSHER DUST SURFACE OVER COMPACTED BASE
- ACCOMMODATES WHEELCHAIRS AND OTHER WHEELED CARRIERS (IE. STROLLERS)
- WIDTH ALLOWS TWO WHEELCHAIRS TO PASS

**PRELIMINARY**  
 FOR REVIEW  
 AND COMMENT  
 SUBMITTED MAY 4, 2009

**Gordon Ratcliffe  
LANDscape ARCHITECTS**

55398 YOUNG STREET  
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project: WESTERN COMMON

title: SHARED USE TRAIL  
 BARRIER FREE TRAIL

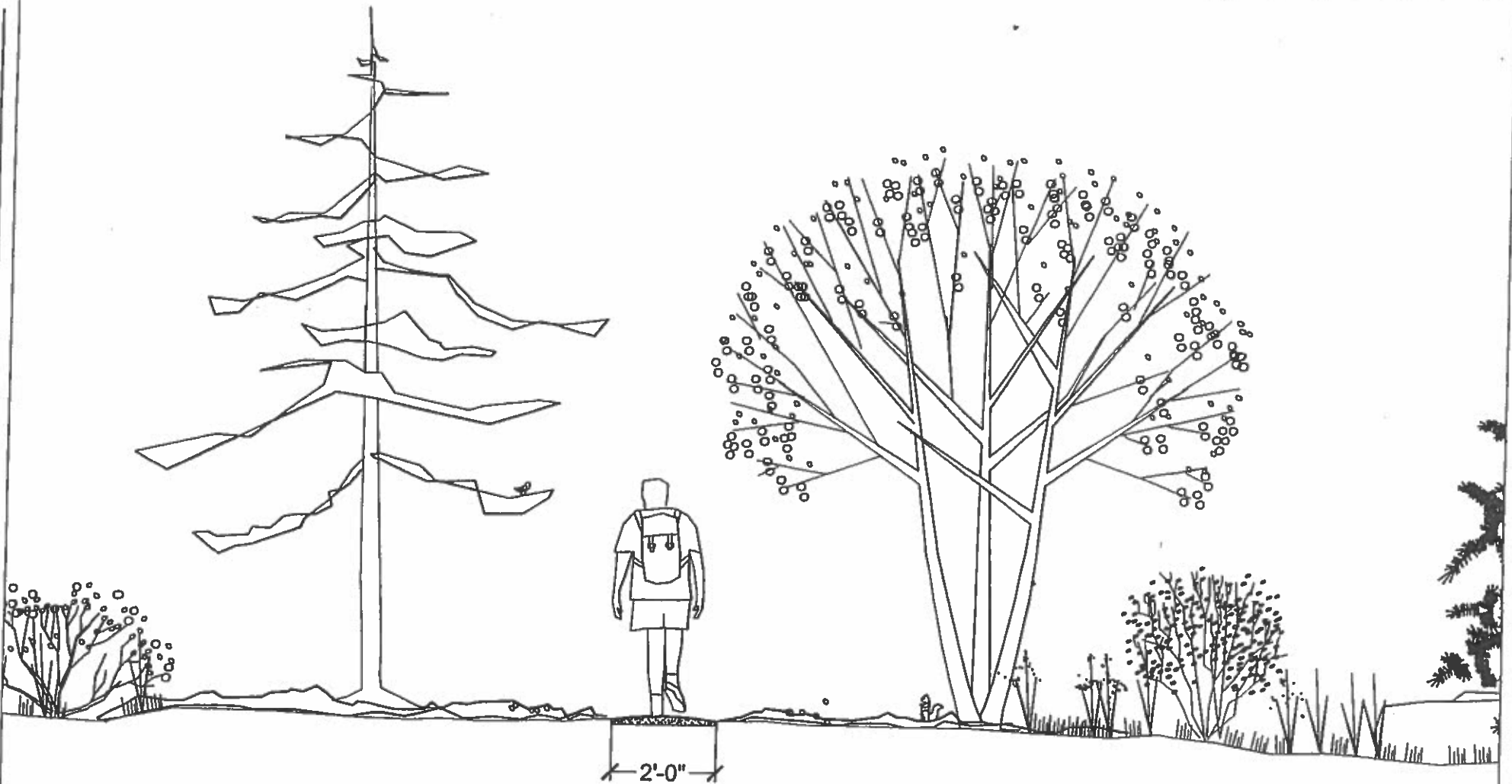
date: MAY 04, 2009

scale: NTS

drawn by: MDP

detail:

**LSK-3**



- TRAILSURFACE - 2'-0" WIDE MIN. WITH MINIMAL SITE DISTURBANCE
- SURFACE IS MADE FROM NATURAL MATERIALS OR IMPORTED GRAVELS WHERE REQUIRED
- DESIGNED ONLY FOR WALKING

**PRELIMINARY**  
 FOR REVIEW  
 AND COMMENT  
 SUBMITTED MAY 4, 2009

**Gordon Ratcliffe  
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project: WESTERN COMMON

title: SHARED USE TRAIL  
 BACK-COUNTRY HIKING TRAIL

date: MAY 04, 2009

scale: NTS

drawn by: JST

detail:

**LSK-4**