Bainbridge Island - Grand Forest North

Trail System Design Proposal 2.3 mi Total (1.7 mi New, 0.6 mi Existing)

— New Easier Trails
— New More Difficult Trails
▬ 0.8 Mile Perimeter Loop
— Skills Zone

○○○○ Existing Easier Trails (Keep/Re-Build)
●●●●● Existing More Difficult Trails (Keep/Re-Build)
× × × Existing Trails to be Closed/Decommissioned
→ Direction of Travel

N W E S

NE KOURA RD

P M P P

NE ABIES DR

Skills Zone

#1 ~0.8 Mile Multi-Use Perimeter Loop

1 New Entrance
Keep 3 Existing Entrances

Decomm ~1,400ft of old trail

MILLER RD NE

#2 ~1300ft Easier Descent Bikes Only

#3 ~900ft Easier Descent Bikes Only

200

#4 ~1800ft Easier 2-Way Multi-Use

HART LN NE

ARROW POINT DR NE

#5 ~1,250ft More Difficult Descent Bikes Only

#6 ~1,500ft More Difficult Descent Bikes Only

Private

B.I. Land Trust

Private

0   250   500   1,000
Feet

Multi-Use Trails Design Highlights:

- Low Speed, high visibility
- Carefully planned and signed intersections

Bike Trails User-Experience Focus:

- Kids, Families, Beginners
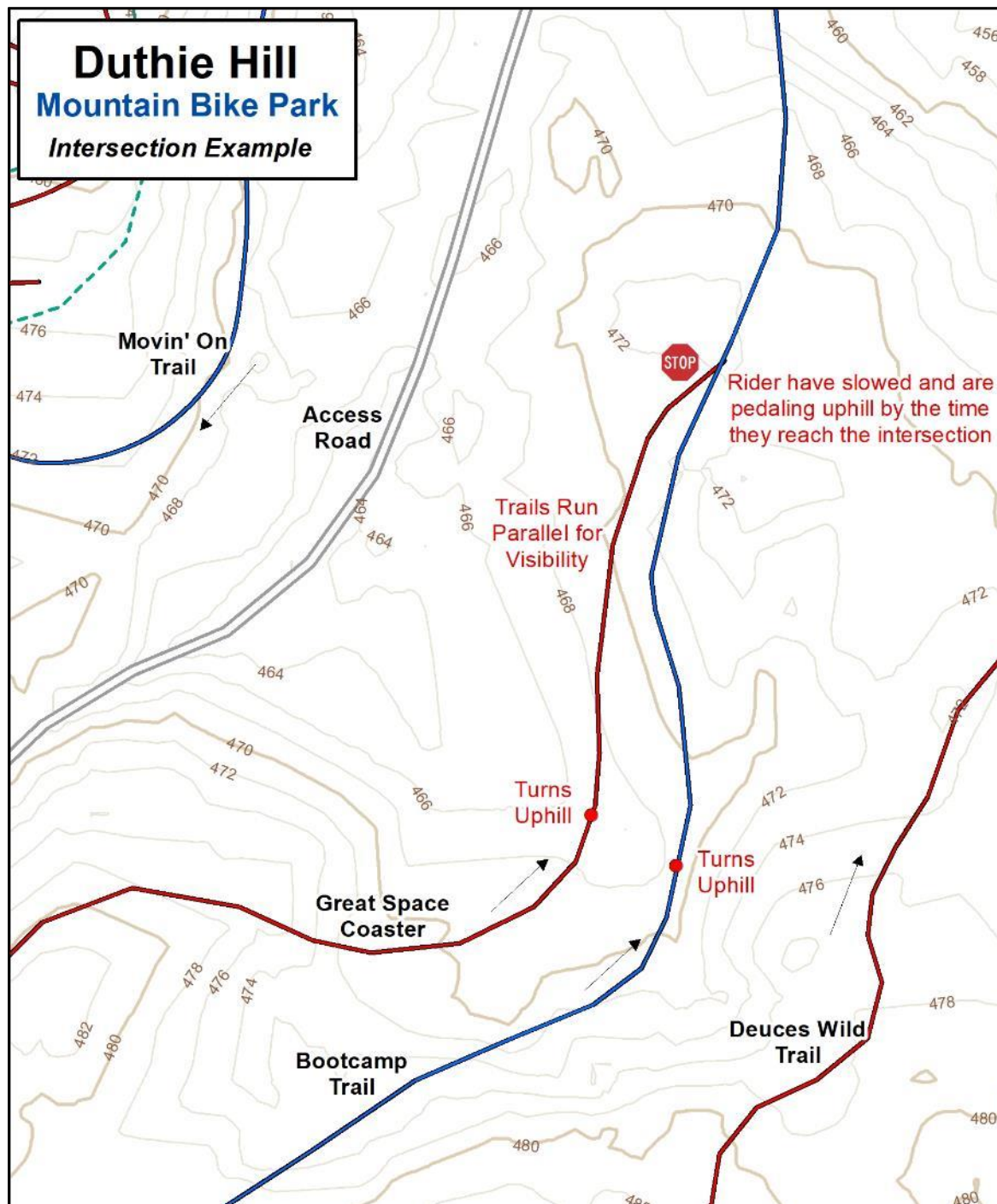- Progression
- Student League

Bike Trails Design Highlights:

- Stacked Loop System
- Smooth, flowy trails
- Banked Turns & Rollers
- Optional Features
- Speed control
- Carry speed into climbs
- Minimize hard braking
- Carefully planned and signed intersections

Risk Management Best Practices

- Design and Build Trails & Features according to established **Standards**
  - Difficulty level, style, features, alternate routes
- **Sign** trails and features according to established Standards.
  - Trailhead & en-route signs priority: alert riders to the difficulty level and challenges ahead
- Emphasize **Skill** Instead of Consequence
  - Challenging features don't have to be overly dangerous
- Provide **Options** and Alternate Routes
- Build skill **Gateway** Features at trail entrances
- Build skill **Filter** Features before higher risk features.

- Provide appropriate **Fall Zones**
- **Control** Speed and Visibility before intersections.
  - Route trails uphill, use chicanes, increase visibility
- Reduce **Surprise**
  - Allow riders to make informed decisions
  - Technical challenges should be visible and match the skill level and character of the trail
  - Exceptions should be well signed and alternate to the main route
  - Technical challenges should be easier than they appear and rebuilt if there is a negative reaction
- **Educate** riders
  - Signage, rider education, social media, kids camps, group rides, tent days, work parties.

Duthie Hill
Mountain Bike Park
Intersection Example

Movin' On Trail

Access Road

STOP

Rider have slowed and are pedaling uphill by the time they reach the intersection

Trails Run Parallel for Visibility

Turns Uphill

Turns Uphill

Great Space Coaster

Bootcamp Trail

Deuces Wild Trail

Example: Reducing Speed before Intersections

STOP
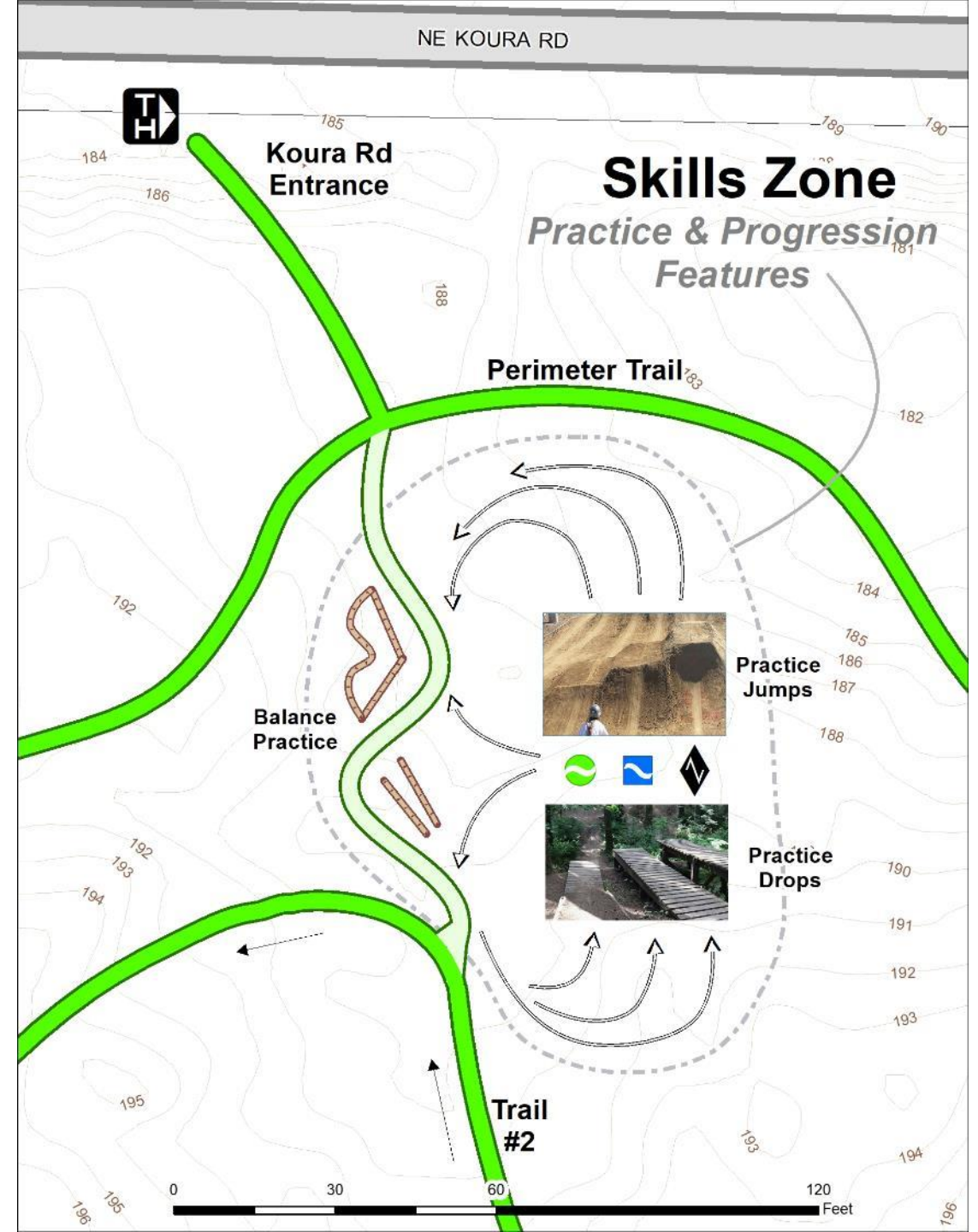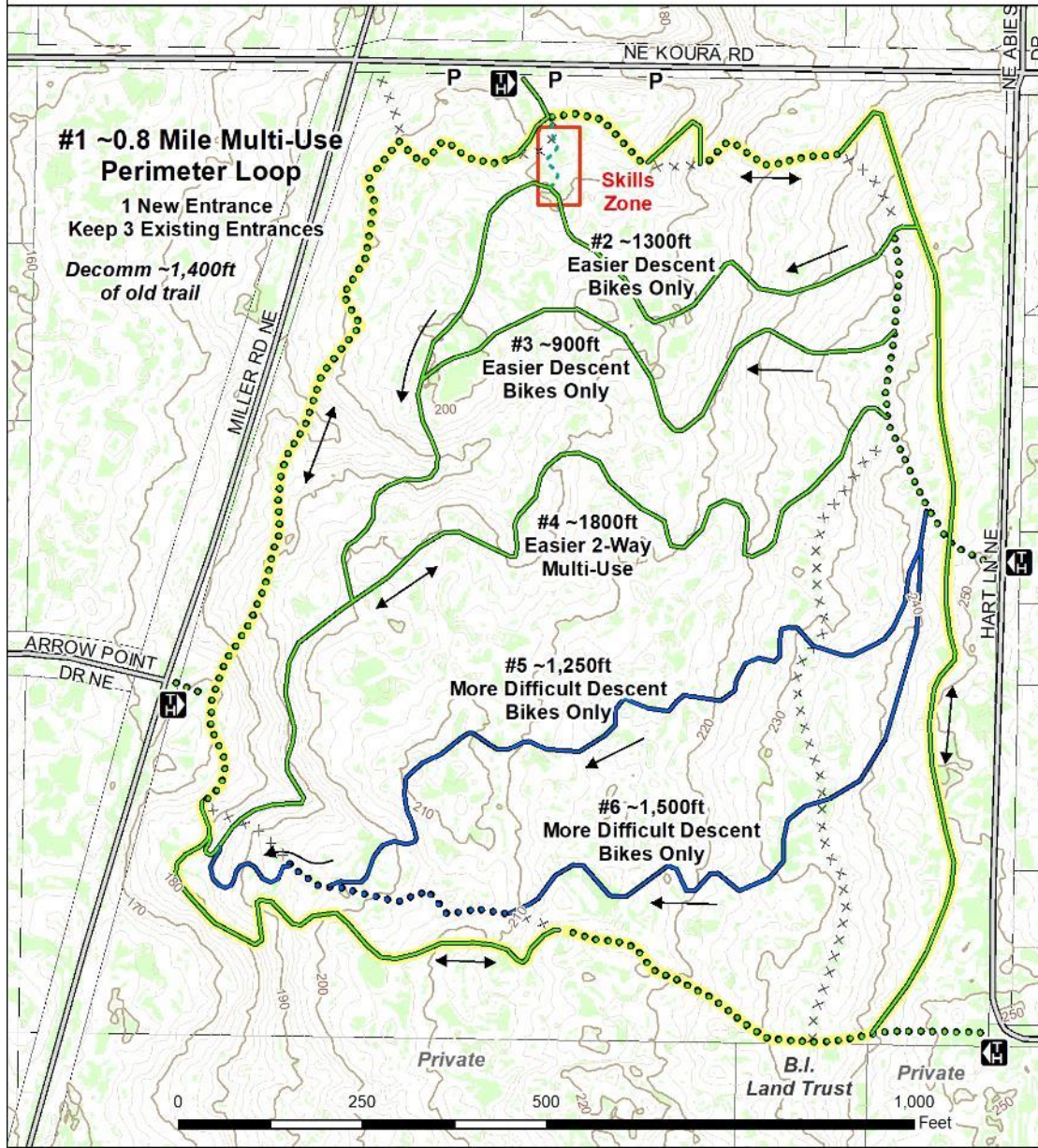CROSS TRAFFIC DOES NOT STOP

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NE KOURA RD

TH

Koura Rd Entrance

Skills Zone
Practice & Progression Features

Perimeter Trail

Balance Practice

Practice Jumps

Practice Drops

Trail #2

0   30   60   120 Feet

Practice Drops

Practice "Skinnies" and Ladder Bridges

Low risk features for developing balance and bike handling skills