

# Proposal to Complete/Restore Penn State Wilkes-Barre's Fitness Path



Bryan Whiting

## Location of the Path

Located between the student commons and water tower is the entrance to a less than perfectly maintained path through the some of the campus woodlands. This area is rarely utilized due to the poor condition of the route. The path is approximately 1100 feet long and has an exit point on the other side of the student commons building.



Figure 1: Google Maps and Earth View of PSU-WB Campus.

## Current Condition of the Path

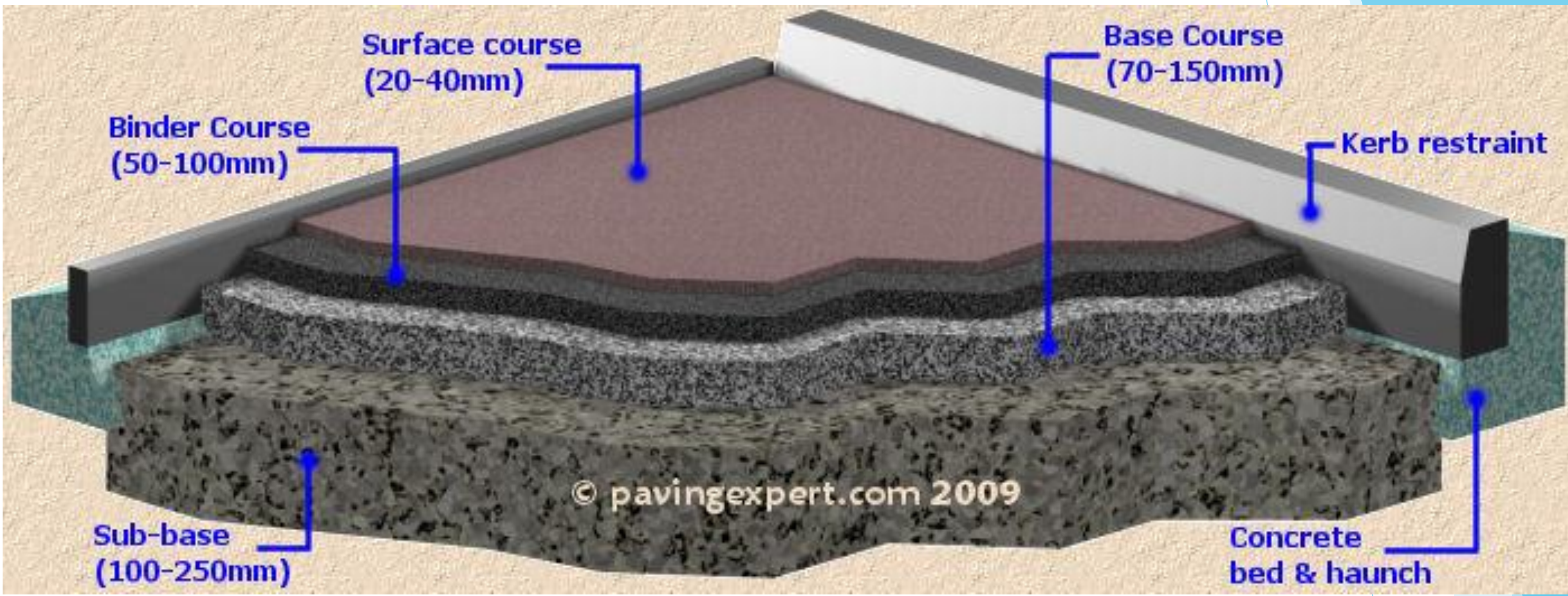
The path is currently cleared of trees, but the walking surface is a combination of mud and dead leaves. Not shown are dilapidated exercise bars and a vandalized sign stating that the area is a fitness trail and displaying some stretching techniques.



Figure 2. (Left) Entrance to path as noted by red dots in previous images and (right) muddy ruts located near the midpoint of the trail.

## How can the area be improved?

The best solution is to pave the path using asphalt. The current 8 foot wide path traversing the campus woods is in excellent condition and perfectly maintained. The cost of asphalt ranges from \$2-5 per square foot, and with the approximate area of 8800 square feet, the price of materials should be between \$17,600 and \$44,000. The size of the area being improved will most likely push the price of materials closer to the lower figure. Permits will need to be obtained from Lehman township, L & I, and DEP.



Location	Pennsylvania-Wilkes-Barre	
Square Feet	<div>8,800.00</div>	
	Quantity	
Excavation 6" Deep	162.963 CY	416.28
Stone 6" Deep	8800.000 SF	6,244.26
Handgrade Base	8800.000 SF	1,248.85
2" Thick Base	8800.000 SF	5,411.69
1" Topping	8800.000 SF	3,413.53
Subtotal		16,734.62
Adders		
Edging, Brick Paver	<div>0.00</div> LF	0.00
Job Cost		16,734.62
Overhead	<div>10.00%</div>	1,673.46
Profit	<div>5.00%</div>	836.73
Total Cost		19,244.81
Per Square Foot		2.19
		<div><input checked="" type="checkbox"/> Calculate</div>



Figure 3. Shown are (Top) a diagram of asphalt layers, (left) cost calculation, and (right) the current paved paths that the proposed project would duplicate.

## Conclusions

The university can increase the use of campus areas by undertaking this project. A completed path will allow for more opportunities for student activities at a miniscule portion of the university's annual \$4.6 billion budget.

## Acknowledgments

Template modified from: <http://www.writing.engr.psu.edu/posters.html>

Aerial photo and map taken from Google maps. All other photos were taken by poster creator.

Materials calculator provided by [buildingjournal.com](http://buildingjournal.com)

Diagram provided by [pavingexpert.com](http://pavingexpert.com)

Budget information taken from PSU's budget webpage.