

Kim Gorman

From: Roland Bartl
Sent: Wednesday, February 19, 2014 7:58 PM
To: Community Preservation Committee
Subject: FW: RE: Arboretum Parking proposed CPA project

FYI for all CPC members.

Kim:

please add this to the docushare folder for the meeting tomorrow evening.

Thank you

Roland Bartl, AICP
Planning Director
Town of Acton
472 Main Street
Acton, MA 01720
978-929-6631

From: ROLAND BOURDON [<mailto:rbourdon3@hotmail.com>]
Sent: Saturday, February 15, 2014 9:07 AM
To: Tom Tidman; Roland Bartl
Cc: Bettina Abe; Cathy Hatfield
Subject: RE:

Tom,

Thank you for the additional information. That is very helpful for me understanding the reasoning that was used, etc. I agree and I look forward to seeing everything in action.

Thanks again,
Roland Bourdon 2013/14 CPC Chair

From: ttidman@acton-ma.gov
To: rbourdon3@hotmail.com; rbartl@acton-ma.gov
CC: babe@acton-ma.gov; hatfield.family.3@verizon.net
Date: Mon, 10 Feb 2014 16:39:11 -0500
Subject:

Roland and Roland,

The only paved area at the new **Miracle Field** parking lot is at the handicap drop-off, where 10 handicapped spaces were installed.

The remainder of that parking lot (70 car spaces) is gravel. No pervious pavement was used. The advantage to a gravel parking lot at NARA is the fact that there is 10'+ of outwash gravel below the gravel surface, perfect for storm water recharge.

Comparing the NARA situation with the Arboretum:

We have looked into pervious pavement as an alternative to traditional bituminous pavement for the Arboretum. We have decided to use standard bituminous pavement for the following reasons:

- The existing Arboretum parking area is situated just above ledge (approx. 2'), causing groundwater to sit at or near the surface for much of the spring.
- The thin soils below the parking lot are unsorted glacial till, very poor for sub-surface drainage.
- Using a pervious pavement would cause the parking lot to remain saturated for the entire spring, greatly reducing the life of the paved surface.
- The Arboretum is heavily used throughout the year and is plowed and sanded regularly during winter months. Our research has not given us confidence that there is a product that could take regular sanding without causing the pervious pore spaces to become clogged.
- According to Nashoba Paving Co. permeable pavement is 3X the cost of impervious pavement; prep requires digging 2' deep and adding a gravel base layer; not possible at Arboretum due to ledge.
- According to D. Waite, Acton Hwy. Dept. the pervious pavement needs to be "touched up" every year or ruts and pot-holes develop.

We have the ideal location to treat all surface runoff from our impervious surfaces through a rain garden.

- Benefits of rain gardens are:
 - They filter and infiltrate rain water.
 - Act as educational demonstration site for people visiting the Arboretum, as an alternative technology for storm water treatment.

For these reasons, our preference for this particular application would be to utilize standard bituminous pavement, covered under the 2014 Contract with Lazaro paving, giving us the best per ton price possible.

-Tom