

**MEMORANDUM**

**To:** Mark Newman  
Newman Construction, Inc.

**From:** J. Scott Seal, P.E.  
Mark Christensen, P.E.

**Date:** July 28, 2014

**Subject:** Revised Pavement Recommendations – Townhouse Development, Riverton Utah



The memorandum has been completed as a response to a request by Newman Construction, Inc, to re-evaluate the recommended pavement section as stated in a geotechnical report completed by GeoStrata for the proposed development. In that report, dated July 22, 2014, the following pavement section options were presented;

Flexible Pavement Section	
Asphalt Concrete (in)	Untreated Base Course (in)
3	18

Flexible Pavement Section		
Asphalt Concrete (in)	Untreated Base Course (in)	Granular Borrow (in)
3	8	14

The above pavement sections were completed assuming traffic counts consisting of 600 passenger vehicles a day, 4 small trucks a day, and one larger truck a day, resulting in anticipated ESAL count of 105,000. Since the completion of our original report, an updated anticipated traffic load was provided to GeoStrata. The updated traffic loads included 300 passenger vehicles a day and 2 small trucks a day, resulting in an ESAL count of 48,000. Based on this updated traffic loading, the following adjusted pavement section may be utilized for the proposed development;

Flexible Pavement Section	
Asphalt Concrete (in)	Untreated Base Course (in)
3	14

Alternatively, the following equivalent pavement section may be used;

Flexible Pavement Section		
Asphalt Concrete (in)	Untreated Base Course (in)	Granular Borrow (in)
3	6	12

Asphalt has been assumed to be a high stability plant mix and base course material (road base) composed of crushed stone with a minimum CBR of 70. We have further assumed that the traffic will be relatively consistent over the design life of the pavement sections. Therefore, no growth factor was applied in calculation of loading for each pavement sections' design life.

The conclusions and recommendations contained in this memorandum which include professional opinions and judgments, are based on the information available to us at the time of our evaluation, the results of our field observations, our limited subsurface exploration and our understanding of the proposed site development. This memorandum was prepared in accordance with the generally accepted standard of practice at the time the report was written. No warranty, expressed or implied, is made.

This memorandum was written for the exclusive use of Newton Construction, Inc., and only for the proposed project described herein. It is the Client's responsibility to see that all parties to the project including the Designer, Contractor, Subcontractors, etc. are made aware of this memorandum in its entirety. We are not responsible for the technical interpretations by others of the information described or documented in this memorandum.