



EARTH ENGINEERING
CONSULTANTS, INC.

August 3, 2004

Everitt Companies, Inc.
3030 South College Avenue
Fort Collins, Colorado 80525

APPROVED

By: BCR Date: 8.4.04

Attn: Mr. Aaron Everitt



City of Fort Collins
Engineering Department

Re: Pavement Design
Fossil Lake Ranch 2nd Filing, Phase III & IV
Fort Collins, Colorado
EEC Project No. 1044057P

Mr. Everitt:

Our subsurface exploration report for the roadway subgrades in Phase III and IV of the Fossil Lake Ranch Second Filing in Fort Collins, Colorado was submitted to your attention on July 29, 2004. Based on that report, the City of Fort Collins Engineering Department has provided estimated traffic loadings for the identified streets. The streets evaluated, along with the estimated traffic loads, are indicated on the attached summary. Pavement section recommendations are provided in this report based on the traffic loadings provided by the City of Fort Collins Engineering Department and the subgrade soil tests previously completed by Earth Engineering Consultants, Inc. (EEC).

A Hveem stabilometer R-value of 9 was determined for the rough graded pavement subgrades. Using the American Association of State Highway and Transportation Officials (AASHTO) correlation, that R-value corresponds to a resilient modulus value of 5995. The resilient modulus value of 5995 was used in the pavement evaluation.

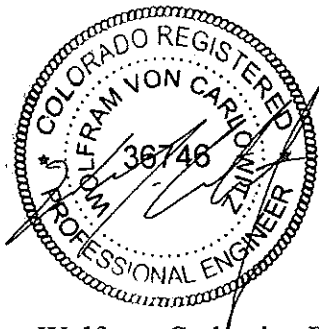
The AASHTO design guidelines for pavement design were used to evaluate recommended pavement sections for this project. Recommended pavement sections based on that evaluation are provided on the attached summary. Other sections could be considered; however, City of Fort Collins standards require the use of a composite section.

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The asphaltic concrete used as the surface course in the pavement area should be consistent with City of Fort Collins classification for Grading S or SX for the local drives; Grading S should be used for collector roadways. Grading SG asphaltic concrete will be required for the bottom lift in asphalt sections greater than 4 inches. The aggregate base should be consistent with Colorado Department of Transportation requirements for Class 5 or Class 6 base.

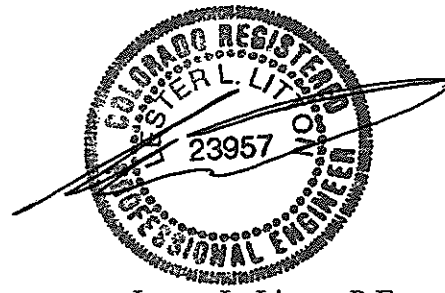
We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report, or if we can be of further service to you in any other way, please do not hesitate to contact us.

Very truly yours,
Earth Engineering Consultants, Inc.



Wolf von Carlowitz, P.E.
Senior Project Engineer

Reviewed by:



Lester L. Litton, P.E.
Principal Engineer

cc: Rick Richter - City of Fort Collins (4)

EARTH ENGINEERING CONSULTANTS, INC.
RECOMMENDED PAVEMENT SECTIONS

Roadway	Trilby Road	Muskrat Creek Drive	Falling Water and Long Creek Drive
Traffic Load			
18-Kip EDLA	100	25	10
Classification	Major Collector	Local Connector	Local
Design Structural Number	3.29	2.49	2.16
Section A – Composite			
Asphalt Surface (S or SX)	2 in.	4 in.	4 in.
Asphalt Base (SG)	4 in.	-	-
Aggregate Base	6 in.	7 in.	6 in.
Section Structural Number	(3.30)	*(2.53)	*(2.42)

*Minimum section per City of Fort Collins standards.

Project: Pavement Recommendations
Fossil Lake Ranch – 2nd Filing, Phase III and IV
Fort Collins, Colorado
EEC Proj. No: 1044057P
Date: August 2004

