



1500 County Road 269
Leander, TX 78641

Mailing Address:
9601 Amberglen Blvd. #109
Austin, TX 78729

May 20, 2024

Mr. Scott Dunlop
Development Services Director
Manor TX 78653

Re: Street Pavement Variance Request
New Haven Subdivision
City of Manor, Texas

Dear Mr. Dunlop:

The submittal of the New Haven Pavement Variance Request, submitted by Quiddity and received by our office on April 16, 2024, has been reviewed by our office.

The contemplated recommendations made below meet or exceed City of Austin minimum sections and have performed adequately for the City of Manor in the past. Our office recommend approving the pavement variance Option 2 with the following conditions:

- Use Geogrid for both street types
- Meet or exceed a treated subgrade thickness of at least 16"
- Consider cement stabilized treated subgrade
- The HMAC and flex base thickness shown are acceptable for each street type

General Residential Streets (Urban Local)

Layer Description	Layer Thickness	
	Option 1 – Overexcavation Option (Baseline) PVR = 3 in.	Option 2 – Lime Treatment Option PVR = 4 in.
HMAC Surface Course, Type "C" or "D"	2.0 in.	2.0 in.
Flexible Base	11.0 in.	14.0 in.
Geogrid	Optional	--
Lime Treated Subgrade	--	8.0 in.
Low PI Fill	<u>35.0 in.</u>	<u>--</u>
Combined Total	48.0 in.	24.0 in.



Anderson Road (Urban Collector High Traffic)

Layer Description	Layer Thickness	
	Option 1 – Overexcavation Option (Baseline) PVR = 2 in.	Option 2 – Lime Treatment Option PVR = 4 in.
HMAC Surface Course, Type “C” or “D”	2.5 in.	2.5 in.
HMAC Base Course, Type “B” or “C”	3.0 in.	3.0 in.
Flexible Base	12.0 in.	14.0 in.
Geogrid	Optional	Yes*
Lime Treated Subgrade	--	8.0 in.
Low PI Fill	4 ft 7 in.	--
Combined Total	72.5 in.	27.5 in.

*Option 2 geogrid reinforcement shall have full-scale testing performance equal to or exceeding that of Tensar TX-5

Review of this submittal does not constitute a verification of all data, information and calculations supplied by the applicant are accurate, complete, or adequate for the intended purpose. The engineer of record is solely responsible for the completeness, accuracy, and adequacy of his/her submittal, whether or not City Engineers review the application for Ordinance compliance.

Please call if you have any questions or need additional information.

Yours truly,

Pauline M. Gray, P.E.

PMG/s

Enclosures

Copy: Brad J. Carabajal, P.E. - Quiddity

PN:: 14667.11-0142