

State of Texas Registered Firm No. 928

TECHNICAL MEMORANDUM

DATE: February 8, 2024

TO: City of Manor **FROM:** Ben Plett, P.E.

RE: Dominium Manor Multifamily Traffic Count Methodology

This memorandum documents the traffic counts methodology for the Dominium Manor Development. The site is located north of US 290 and between FM 973 and Bois D'Arc Road in the City of Manor, Travis County, Texas. The objective of this memo is to summarize the traffic count methodology.

Weekday AM and PM peak period turning movement counts were collected by Quality Counts, LLC. Quality Counts is a national traffic data collection company with 15+ offices nationwide and are a trusted partner to Kimley-Horn and other transportation engineers throughout the county.

Quality Counts records turning movement counts with video cameras and tabulates the data using artificial intelligence, manual review, and a proprietary quality control application. The counts were collected at the following study intersections from 7:00am to 9:00am and from 4:00pm to 6:00pm while school was in session on Thursday, December 7th, 2023. It should be noted that one day of traffic counts is an industry standard and the subconsultant verifies that there are no issues that interfere with the integrity of the data collection including inclement weather, construction, vehicle crashes, and/or any other atypical roadway operations.

The peak hour is defined as the 60-minute period in which the greatest number of vehicles enter an intersection. The peak hour at each intersection was observed as follows:

- 1. FM 973 at Suncrest Road
 - AM Peak Hour: 7:00 AM 8:00 AM
 - PM Peak Hour: 4:30 PM 5:30 PM
- 2. Suncrest Road at Tower Road
 - AM Peak Hour: 7:00 AM 8:00 AM
 - PM Peak Hour: 5:00 PM 6:00 PM
- 3. Bois D'Arc Road at Tower Road
 - AM Peak Hour: 7:00 AM 8:00 AM
 - PM Peak Hour: 5:00 PM 6:00 PM

School times were captured during the AM peak period, however higher volumes of traffic from individuals returning home from work were identified to be during 5-6pm for the PM peak period. While school is let out before the PM peak hour, generally more traffic is observed between 4pm and 6pm, thus this is referred to as the PM peak hour. Through field observation, the existing counts indicate there are no pedestrian volumes near the site. The raw count sheets are provided in *Appendix A*.

Appendix A: Traffic Counts





Volume Count Report

LOCATION INFO		
Location ID	227H31	
Туре	SPOT	
Fnct'l Class	4	
Located On	FM0973	
Loc On Alias	FM0973-KG	
Direction	2-WAY	
County	Travis	
Community	Manor	
MPO ID	90	
HPMS ID	ASSIGNED	
Agency	Texas DOT	

COUNT DATA INFO					
Count Status	Accepted				
Holiday	No				
Start Date	Mon 12/20/2021				
End Date	Tue 12/21/2021				
Start Time	4:00:00 AM				
End Time	4:00:00 AM				
Direction					
Notes					
Station					
Study					
Speed Limit					
Description					
Sensor Type	Axle/Tube				
Source					
Latitude,Longitude	30.351029, -97.537562				

INTERVAL:15-MIN							
INTERVAL. 13-W		11					
Time	15-min Interval			Hourly Count			
0:00-1:00	32	35	28	33	128		
1:00-2:00	19	19	22	20	80		
2:00-3:00	21	20	17	16	74		
3:00-4:00	28	22	35	31	116		
4:00-5:00	39	52	72	65	228		
5:00-6:00	125	155	197	221	698		
6:00-7:00	226	262	258	294	1,040		
7:00-8:00	277	255	254	270	1,056		
8:00-9:00	238	228	224	211	901		
9:00-10:00	235	212	228	211	886		
10:00-11:00	200	183	220	219	822		
11:00-12:00	249	229	199	217	894		
12:00-13:00	227	236	227	230	920		
13:00-14:00	225	228	243	207	903		
14:00-15:00	222	228	243	229	922		
15:00-16:00	248	250	288	293	1,079		
16:00-17:00	313	291	300	310	1,214		
17:00-18:00	328	316	312	305	1,261		
18:00-19:00	281	295	253	245	1,074		
19:00-20:00	176	169	177	164	686		
20:00-21:00	137	163	136	127	563		
21:00-22:00	125	104	103	99	431		
22:00-23:00	101	89	57	71	318		
23:00-24:00	65	52	54	32	203		
Total					16,497		
AADT			15,772				
AM Peak	06:15-07:15 1,091						
PM Peak	16:45-17:45 1,266						











