

December 18, 2024

TRAFFIC MANAGEMENT PLAN UPDATE

Plano Independent School District Frankford Middle School – City of Dallas



INTRODUCTION

Spiars Engineering & Surveying was retained by RLK Engineering, Inc. on behalf of the Plano Independent School District (Plano ISD) to provide a Traffic Management Plan (TMP) Update for the existing Frankford Middle School that consists of grades 6th through 8th. The TMP Update is to be submitted to the City of Dallas as part of the agreed upon the zoning ordinance of SUP 1305 for the property, which requires the Property Owner (school) to prepare a traffic study (TMP Update) evaluating the sufficiency of the [existing] TMP [submitted at the time of zoning approval conditions of November 1, 2021]. The school shall submit updates of the traffic study (TMP Update) to the [City] by November 1 of each odd-numbered year.

According to the SUP 1305, the traffic study (TMP Update) must be in writing, performed by a license engineer, based on a minimum of four samples taken on different school days a different drop-off and pick-up times over a two-week period, and must contain an analysis of the following:

1. ingress and egress points;
2. queue lengths;
3. number and location of personnel assisting with loading and unloading of students;
4. drop-off and pick-up locations;
5. drop-off and pick-up hours for each grade level;
6. hours for each grade level; and
7. circulation.

This memorandum is prepared to evaluate and address each analysis mentioned above. A copy of the existing TMP that was approved by the City of Dallas during the condition agreement process of SUP 1305 is provided at the end of the report. Unless mentioned otherwise in this memorandum, all elements of the existing TMP are to be assumed to be in operation as shown on the existing TMP and validated by a total of four onsite observations (two in the morning and two in the afternoon) on Tuesday, May 14th, 2024, and Thursday, May 16th, 2024.

At the time of the approval by the City of Dallas of the existing TMP (With no planned significant changes):

- a. Student enrollment of 1,023 students
- b. Start/End times: 8:25 A.M. – 3:40 P.M.
- c. Original TMP Travel Modes: Bus and Walking: 65%/Walking: 5%/Picked Up by Parent: 30%

As described in the Existing TMP, a summary of existing conditions performed in 2019 are summarized below:

The school operates with an unmanaged queue protocol (no staff assistance). Parent pick-up activity in the afternoon occurs within the site in front of the school building along Osage Plaza Parkway and to the west of the school building along Maribeth Drive.

Additionally, parent pick-up activity in the afternoon occurs adjacent to the property along Osage Plaza Parkway and Along Maribeth Drive. NOTE: Parent drop-off activity in the morning peak has a similar protocol as the parent pick-up in the afternoon. Parent drop-off in the morning peak occurs at the pick-up/drop-off recessed area on-site in front of the school building and has negligible impact to traffic and pedestrian operations off-site. Generally, excessive traffic delays and queuing were not evident during school morning peak. School buses unload students along the internal roadway along the eastern side of the school building.

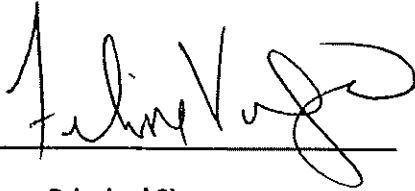
Along with marked crosswalks, a crossing guard is stationed at the corner of Osage Plaza Parkway and Maribeth Drive. Pedestrian traffic was observed to be not more than 5% (not more than 51 students) of the student population. It was observed that the single crossing guard was sufficient for the demand to cross Maribeth Drive and Osage Plaza Parkway. Current pedestrian amenities include marked crosswalks with pedestrian ramps on the east and south legs of Osage Plaza Parkway and Maribeth Drive. Sidewalks are present on all frontage to the public right-of-way with pedestrian ramps existing on each private driveway on the property. Pedestrian routes were observed to cross and continue along Osage Plaza Parkway. The table below shows specific information requested by the City of Dallas.

ENGINEER RECOMMENDATIONS:

- During the observations conducted by SPIARS, it was found that parents picked-up students from both curbsides of Maribeth Drive. However, after conversations with the school and the newly assigned principal for the 2024-2025 school year, the District and Frankford Middle School have committed to recommit to the original Traffic Management Plan approved in 2019 of all parent queuing/stacking to be on-site.
- Additionally, it was observed that no parents parked or queued along Osage Plaza Parkway. Therefore, it is found by SPIARS that the “No Parking” signs that was recommended from the 2019 original TMP are not necessary. As a result, it is recommended that the original recommendations for the “No Parking” signs along Osage Plaza Parkway be omitted.
- SPIARS reviewed the current signs and marking completed by RLK Engineering to confirm all signs and marking comply, to the best of SPIARS knowledge, with the current school’s TMP. In general, the inspector has the ability to request updated signage and/or markings based on existing conditions or if existing signs/markings are outdated.

Table 1. General School Information

General School Information School Name: Plano Independent School District – Frankford Middle School Principal/Head of School: Felipe Vargas – felipe.vargas@pisd.edu Location: 7706 Osage Plaza Parkway Type: Public Middle School Existing Zoning: SUP 1305 Prior TMP Date: April 8 th , 2019
Observations Dates Observed: Date #1— Tuesday, May 14 th , 2024; Date #2— Thursday, May 16 th , 2024 Peak and Available Queue: 100 Vehicles (2,500 LF)


Principal Signature

12/19/2024
Date

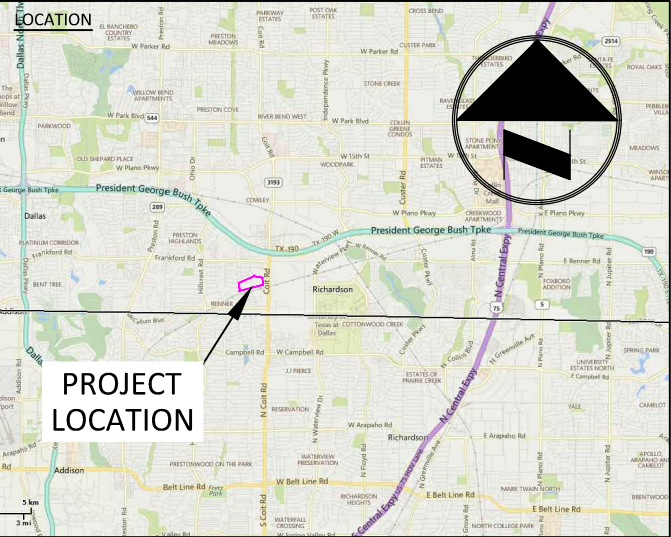
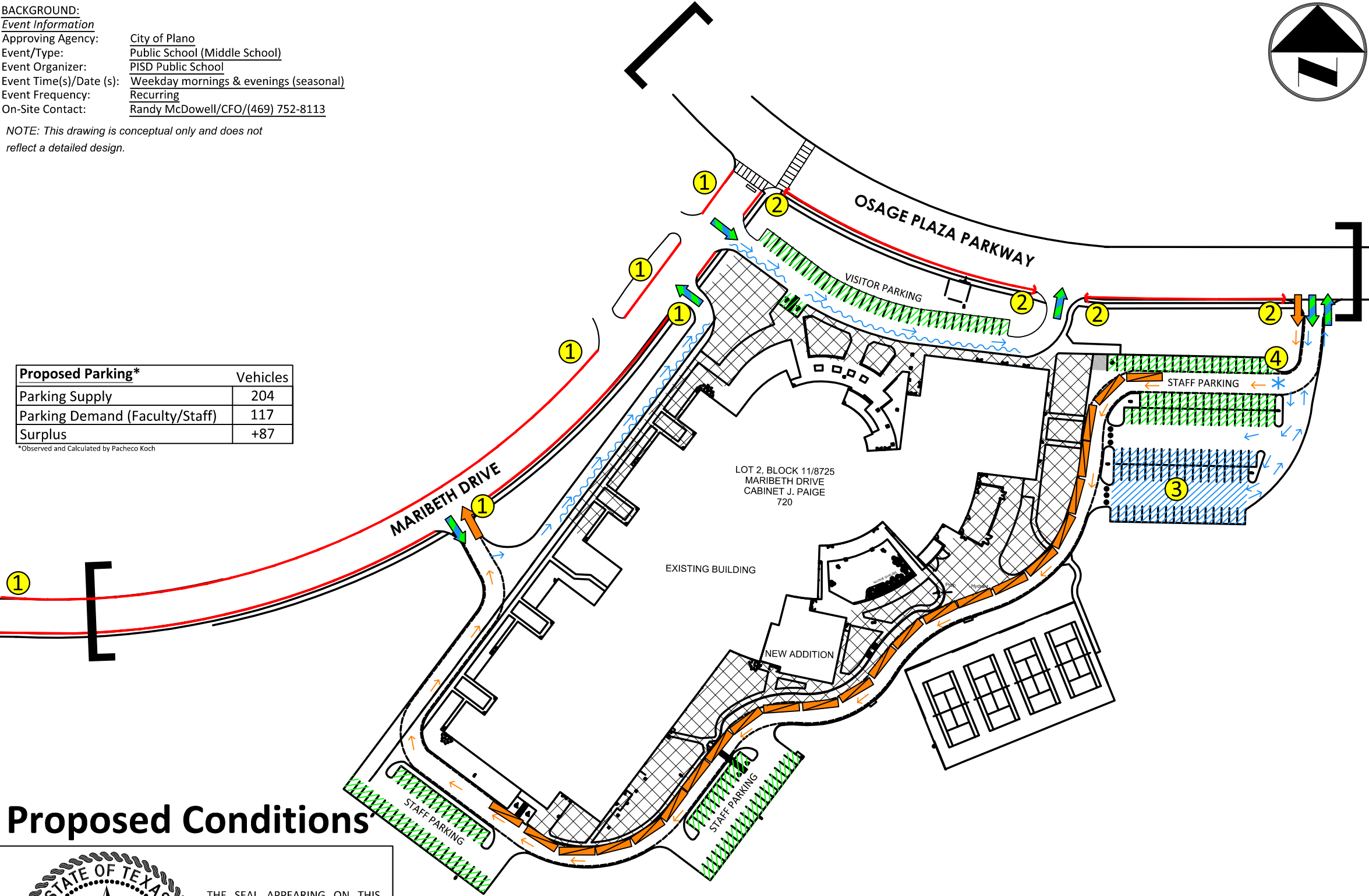
GENERAL NOTE: The subject school administration shall issue a formal communication that summarizes the intent of the Traffic Management Plan at least once every school year.

BACKGROUND:
Event Information
Approving Agency: City of Plano
Event/Type: Public School (Middle School)
Event Organizer: PISD Public School
Event Time(s)/Date (s): Weekday mornings & evenings (seasonal)
Event Frequency: Recurring
On-Site Contact: Randy McDowell/CFO/(469) 752-8113

NOTE: This drawing is conceptual only and does not reflect a detailed design.

Proposed Parking*	Vehicles
Parking Supply	204
Parking Demand (Faculty/Staff)	117
Surplus	+87

*Observed and Calculated by Pacheco Koch



- Parking**
- No On-Street Parking Allowed (Existing)
 - No On-Street Parking Allowed (Proposed)
 - Off-Street Allowed
 - Access Point
- Queuing/Loading**
- Parent Waiting and Loading Area
 - Queue Area (Unmanaged)
 - Circulation/Flow
 - Access Point
 - School Bus Loading/Unloading
 - School Bus Access Point
 - School Bus Circulation/Flow
 - Staff Assistance
- Pedestrian/Other**
- Crosswalk
 - Student Waiting Area
 - School Zone
 - Traffic Cone
 - Stop Line

Proposed Conditions

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY HUNTER W. LEMLEY, P.E. 125343 ON 04/08/2019. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

TX. REG. ENGINEERING FIRM F-469
TX. REG. SURVEYING FIRM LS-100080-00

PK 4229-19.072
(AJV: 04/08/19)

- RECOMMENDATIONS**
- 1 Enforce Existing, On-street Parking Restrictions During School Traffic Periods
 - 2 Install Parking Restrictions During School Traffic Periods
 - 3 Allocate Parking Area Located Within Staff Parking Lot to Parent Waiting/Loading Area
 - 4 Provide Staff Assistance to Restrict Access to Buses Only

Vehicle Accumulation/Capacity		Notes
Projected Enrollment	1,027	Students
Deductions:		
By School Bus (65%)	668	Students (PISD Estimated)
By Walking (5%)	51	Students (PISD Estimated)
Other (0%)	0	Students (PISD Estimated)
Students by Pick-up/Drop-off	308	Students
City-Approved Rate:	5.12	If of max. queue per student
Average Length of Vehicle:	23.5	If/veh (Pacheco Koch Observed)
"Projected Maximum Vehicle Accumulation":	67	Vehicles (1,575 lf)
Projected Capacity:	80	Vehicles (1,880 lf)
SURPLUS	+13	

EXHIBIT 1

Z189-214

Traffic Management Plan

Proposed Conditions

PISD Public School, Dallas, Texas