

## Traffic Management Plan

### Uplift Pinnacle Preparatory

Z145-269-AF  
Dallas, Texas



Walter P. Moore and Associates, Inc.  
TBPE Firm Registration No. 1856

**Prepared for**  
Uplift Education

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## INTRODUCTION

Uplift Education is proposing to initiate the operations for a charter school at the northwest corner of IH 35E and Camp Wisdom Road in Dallas, Texas. The proposed school site is bounded by IH 35E Southbound Frontage Road (SBFR) on the east, Camp Wisdom on the south, single-family homes that front Brierfield Drive on the west and the alley that serves homes that front Cherry Point Drive on the north. During the Full Build enrollment year of the school, the school proposes to accommodate 600 students in the Elementary School and 1,176 students in the Secondary School. Uplift Education acquired the services of Walter P Moore (WPM) to address traffic and queuing concerns of the City of Dallas and provide a Traffic Management Plan for the proposed site.

## QUEUING ANALYSIS

The queuing data collected at existing Uplift Education school campuses was evaluated. From the data available, overall averages of approximately 1 vehicle for every 6.8 elementary students and 1 vehicle for every 7.5 secondary school students were calculated for peak queuing conditions.

Utilizing these peak queuing ratios as planning guidelines for Full Build enrollment of the school, the calculated linear feet of queuing space for the school was developed as provided in **TABLE 1**. The provided queuing space is also shown in **TABLE 1**.

**TABLE 1: Calculated Queuing Space for Uplift Pinnacle Preparatory – Full Build Enrollment**

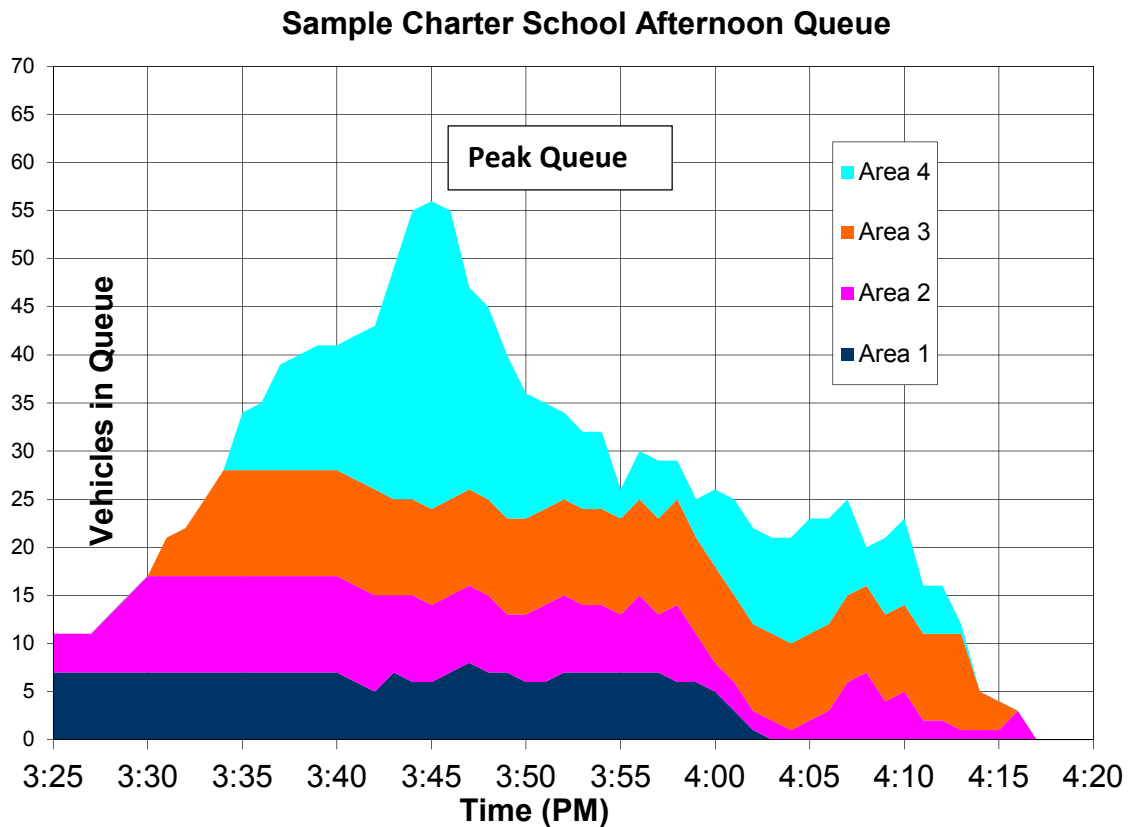
School Level	Grades	Number of Students- Full Build-out	Ratio: Number of Students per Peak Queued Vehicle*	Number of Peak Queued Vehicles-	Calculated Queuing Space- Linear Feet**	Provided Queuing Space – Linear Feet
Elementary School	K - 5	600	6.8:1	88	2,200	2,852
Middle School	6 - 8	504	7.5:1	67	1,675	2,969
High School	9 - 12	672	7.5:1	90	2,250	2,852***

*\*Average peak queuing rates obtained from existing school queuing data*

*\*\*Assuming 25 feet per vehicle*

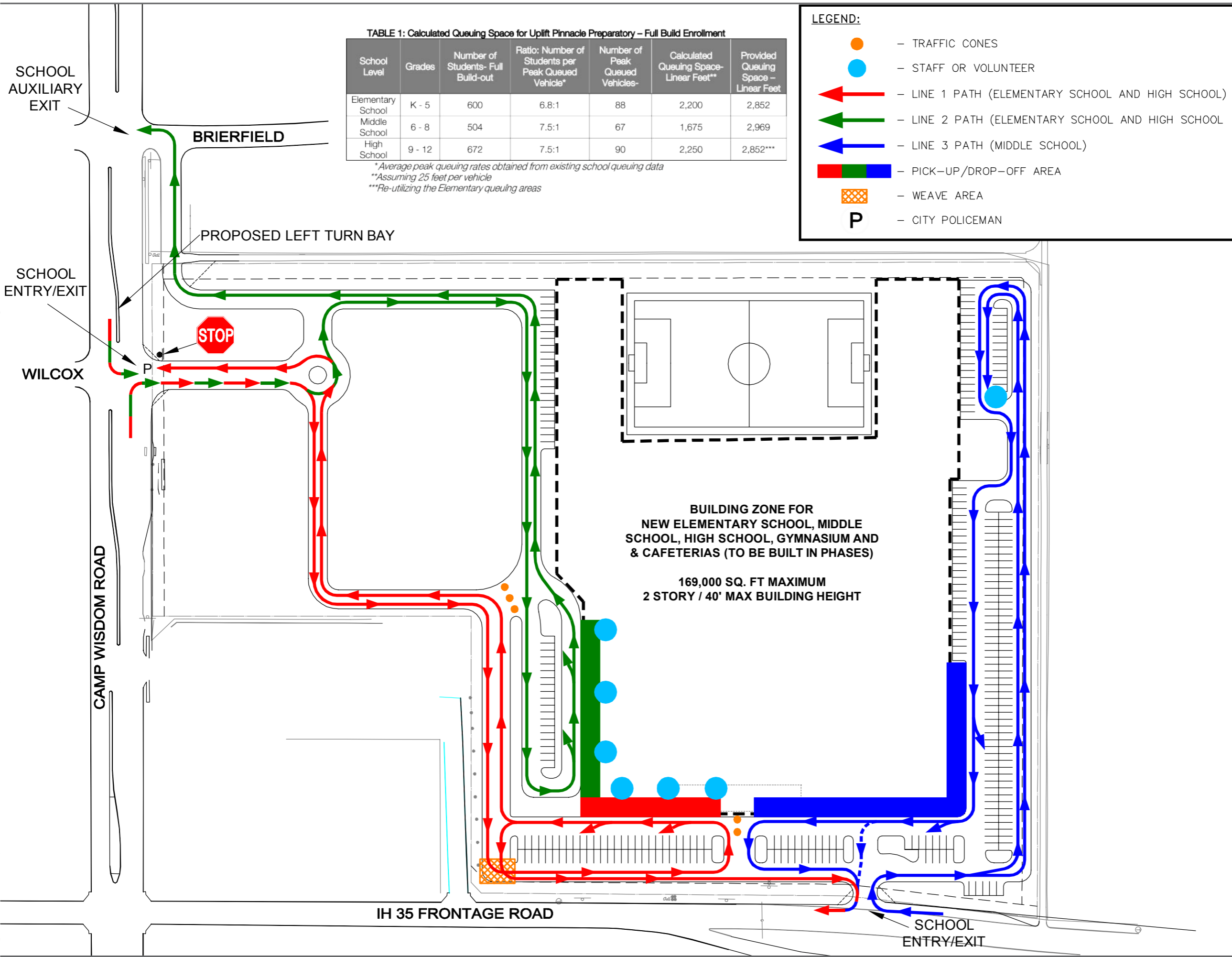
*\*\*\*Re-utilizing the Elementary queuing areas*

The following figure illustrates a typical accumulation of queued vehicles leading up to the dismissal time and after the students have been released. As the figure indicates, the duration of the “Peak Queue” during the PM peak typically lasts for a minute or two before quickly diminishing. The Areas 1 through 4 represent the different queuing areas inside the school (curb lines, parking lots, etc.). This particular school campus has two dismissal times as is indicated by the peak at 3:45 PM as well as just after 4:05 PM.



The on-site queuing space for the Pinnacle Preparatory campus illustrated in **EXHIBIT 1** measures 1,580 linear feet for the red pick-up area, 1,272 linear feet for the green pick-up area and 2,969 linear feet for the blue pick-up area for a total single-use length of 5,821 linear feet. During the initiation of the school operations, it is recommended to monitor the drop off and pick up operations and make adjustments to the procedures as necessary. The site plan is anticipated to sufficiently serve the Full Build enrollment plan of the school campus with implementation of the Traffic Management Plan as further described.

P:\T04\2015\15001-00 Uplift Pinnacle\Cad\Traffic\T04-15001-00-EXHIBIT-01-ROUNDABOUT.dwg  
 Aug 20, 2015 - 1:02pm



**TABLE 1: Calculated Queuing Space for Uplift Pinnacle Preparatory – Full Build Enrollment**

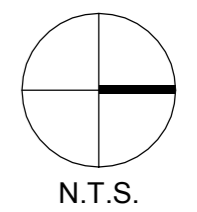
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\*Average peak queuing rates obtained from existing school queuing data  
 \*\*Assuming 25 feet per vehicle  
 \*\*\*Re-utilizing the Elementary queuing areas

**LEGEND:**

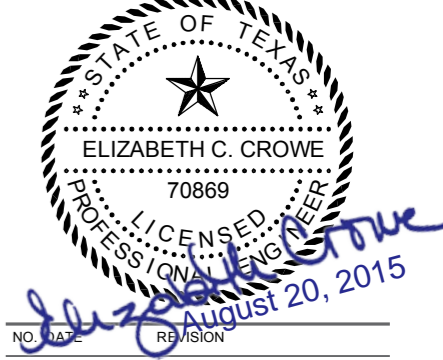
- – TRAFFIC CONES
- – STAFF OR VOLUNTEER
- ← – LINE 1 PATH (ELEMENTARY SCHOOL AND HIGH SCHOOL)
- ← – LINE 2 PATH (ELEMENTARY SCHOOL AND HIGH SCHOOL)
- ← – LINE 3 PATH (MIDDLE SCHOOL)
- █ – PICK-UP/DROP-OFF AREA
- WEAVE AREA
- P** – CITY POLICEMAN

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BASED ON THE IMPLEMENTATION OF THE PROPOSED TRAFFIC MANAGEMENT PLAN, I, ELIZABETH CROWE, P.E. #70869, CERTIFY THAT NO QUEUING OF VEHICLES DROPPING OFF STUDENTS AT PINNACLE PREPARATORY IS ANTICIPATED IN THE CITY OF DALLAS "ROW". IF VEHICLE QUEUING SHOULD BEGIN TO OCCUR ON THE CITY OF DALLAS ROW, UPLIFT EDUCATION IS RESPONSIBLE TO TAKE THE NECESSARY ACTION TO MITIGATE.

Walter P. Moore and Associates, Inc.  
 TBPE Firm Registration No. 1856



DESIGNED BY	SN
REVIEWED BY	ECC
DRAWN BY	TME
PROJECT NUMBER	T04-14001-00
DATE	AUGUST 2015
SHEET TITLE	

**UPLIFT PINNACLE PREPARATORY TMP**  
 SHEET NUMBER

## TRAFFIC MANAGEMENT PLAN

The Traffic Management Plan was designed to create a vehicular circulation route for parents to drop-off and pick-up their children during the critical morning and afternoon times associated with the beginning and dismissal of school. It is designed to maintain all queued vehicles within the school property during both the AM and PM peak periods and not impede the flow of traffic on adjacent streets. Elements of the proposed traffic management plan are provided.

### *Family Identification Numbers*

It is recommended to provide a carpool identification card for each elementary school family. The parents should be instructed to have the identification card visible for the administrator collecting this information to relay the specific parent's arrival information to the staff to alert the elementary students.

### *Ingress & Egress*

Three driveways will provide access to the site as illustrated in **EXHIBIT 1**. The driveway along IH 35 SBFR on the northeast side of the school will primarily provide entry and exit access to the Secondary School carline. The driveway on the southern end of the campus at Camp Wisdom Road will primarily serve entry and exit for the Elementary School carline. Modification to the existing median opening will be necessary for the eastbound left turn movement from Camp Wisdom Road.

The driveway that runs parallel to Camp Wisdom Road along Brierfield Drive on the south side of the proposed school site will provide auxiliary access from the Elementary School carline. As the school population grows, it is recommended to utilize the Elementary School access for a portion of the Secondary School, potentially the High School.

### *Drop-off/Pick-up Locations*

As depicted in **EXHIBIT 1**, there are three proposed student Drop-off/Pick-up locations provided on the school campus. Two areas are located on the east side of the school buildings parallel to the IH 35 frontage road and one is located on the south side of the elementary building parallel to Camp Wisdom Road. As illustrated in **EXHIBIT 1**, the Elementary School carline is proposed to utilize the two areas on the south side of the campus. The Middle School is proposed to utilize the area on the north side of the campus. The High School operations would initially operate at the loading area on the north side of the campus and may adjust to the south side of the campus as necessary to

respond to the changing needs and loading/queuing demands of the campus as the enrollment increases.

### ***Circulation***

Vehicles for the Elementary School drop-off/pickups will enter the south side driveway from Camp Wisdom Road with either a left turn or a right turn into the school campus. After entering the school site, the motorists will follow either the red path or the green path as illustrated in **EXHIBIT 1**.

Motorists in the red line will proceed to the red pick-up area and either exit the site via the school drive to Camp Wisdom Road or from the driveway along IH 35 SBFR. As the need and/or demand warrants, the Elementary School also has the opportunity to utilize the green path as indicated on **EXHIBIT 1** with motorists exiting to Brierfield Drive. Depending on the number of students living in the neighborhood with access to Brierfield Drive, this auxiliary access point may be utilized for entry to the school site.

The vehicles for Secondary School drop-off/pickup operations will enter the site through the north side driveway along IH 35 SBFR with a southbound right-turn. The motorist carline will proceed counterclockwise around the parking lots north of the Secondary School building, as shown in **EXHIBIT 1**. There is potential for double stacking of the carline during the Full Build enrollment of the school.

Since it is assumed that the Elementary School pickup operations and Secondary School pickup operations will be staggered by at least a period of 20 minutes, it is recommended that a portion of the Secondary School (potentially the High School) utilize the Elementary School queuing space and circulation plan.

### ***Release Time***

Other Uplift Education campuses typically stagger the release times between the Elementary School (grades Kindergarten through fifth grade) at 3:30 PM and the Upper School (Grades 6 -12) at 4:00 PM. It is assumed that the Elementary School pickup operations and Secondary School pickup operations will be staggered similarly by a minimum of 20 minutes.

### ***Administrative Officials***

School staff and/or volunteers will be necessary to assist with both morning drop-off and afternoon pick-up operations at the Elementary School.

Each school campus has unique carpool operation conditions with its number of staff, students and parents. Monitoring of the proposed Traffic Management Plan should be performed at the onset of the school's opening to ensure that it is operating efficiently. As this campus will be a new location, the school should be prepared to provide additional staff at the onset of the school's opening and adjust based on the demand both in the morning and in the afternoon. With full enrollment, it is proposed that a number of staff or volunteers assist during the afternoon pick-up operations. There are six potential staff or volunteer locations indicated for the Elementary School loading areas located at on **EXHIBIT 1**. One potential staff member or volunteer is also illustrated on **EXHIBIT 1** at the location where two queuing lines would merge into one line.

An additional administrator can be utilized near the Elementary entry to alert the staff at the pick-up areas of the names of students that are to be picked-up so that they are queued up and ready to load into the vehicles. Police assistance should be anticipated to be needed at the stop-controlled exit to Camp Wisdom Road across from Wilcox Drive.

### ***Summary***

**EXHIBIT 1** illustrates the Traffic Management Plan for Uplift Pinnacle Preparatory. New driveways are requested along southbound IH 35 E frontage road and Camp Wisdom Road. Median modification for the eastbound left turn into the school campus from Camp Wisdom Road is also requested. The City of Dallas has also requested right turn deceleration lanes for the approaches to the two proposed driveways as reflected on **EXHIBIT 1**.

During the initiation of the school operations, it is recommended to monitor the drop off and pick up operations and make adjustments to the procedures as necessary. It is the responsibility of the Uplift Pinnacle Preparatory administrators to implement the plan. Based on the information provided by the school representatives and best planning practices, the provided circulation and queuing plan should be sufficient to accommodate the peak vehicular queue on site. No queuing will be allowed on the street right-of-way and administrators are responsible for immediately implementing any correction deemed necessary by City staff to correct any spill of queuing in the City of Dallas Right of Way. Strategies to minimize peak queuing conditions on school campuses include:

- Provide several opportunities for the parents, students and staff to learn any new carpool circulation plan; meetings, e-mails, posting on the school website, etc.,
- Instruct parents not to arrive at the school too early,



- Encourage carpooling among families,
- Have parents visibly display their family name or carpool number for easy identification,
- Encourage the parents to queue up closely to the vehicle in front of them,
- Provide additional staff members to assist with unloading/loading the Elementary School students, and/or
- Stagger release times for different grade levels.