

AGENDA

**TRANSPORTATION BOARD
TUESDAY, SEPTEMBER 20, 2016
6:35 P.M.**

**LEWISVILLE CITY HALL
151 W. CHURCH STREET
LEWISVILLE, TEXAS**

- 1. Call to Order and Announce a Quorum is Present.**
- 2. Selection of a Chairman and Vice-Chairman.**
- 3. Approval of the Minutes of the March 15, 2016 Meeting.**
- 4. Visitors/Citizens Forum -** At this time, any person with business before the Board not scheduled on the Agenda may speak to the Board. No formal action can be taken on these items at this meeting.
- 5. Consideration of Establishing a School Speed Zone on Bellaire Boulevard from 100 feet east of Old Orchard Lane to 100 feet east of Catalina Drive and Make a Recommendation to the City Council Regarding the Amendment.**
- 6. Consideration of Prohibiting Left-Turn and U-Turn Movements at the Intersection of Bellaire Avenue and Gilani Lane by Time of Day and Make a Recommendation to the City Council in Regard to the Prohibition.**
- 7. Adjournment**

NOTICE OF ASSISTANCE AT THE PUBLIC MEETINGS

The Lewisville City Hall and Council Chambers are wheelchair accessible. Access to the building is available at the primary south (front) entrance facing Church Street. Special parking spaces are available at either the southeast or southwest parking lot areas. Persons with disabilities who plan to attend this meeting and who may need auxiliary aids or services such as interpreters for persons who are deaf or hearing impaired, readers, or large print, are requested to contact the Engineering Division Office at (972) 219-3490 or by FAX at (972) 219-3487 at least two (2) working days prior to the meeting so that appropriate arrangements can be made.

BRAILLE IS NOT AVAILABLE

**MINUTES
TRANSPORTATION BOARD**

**TUESDAY, MARCH 15, 2016
6:35 P.M.**

Item No. 1 Call to Order and Announce a Quorum is Present

Chairman James Davis called the Lewisville Transportation Board meeting to order at 7:20 p.m. and announced that a quorum was present with the following members in attendance:

Sean Kirk
Brandon Jones
Mary Ellen Miksa
Alvin Turner
Kristin Green
James Davis

Members absent: Steven Byars

Staff Present: Kevin Nims, David Salmon, Sagar Medisetty and June Sin

Item No. 4 – Consideration of an Amendment to the City Thoroughfare Plan to Change the Designation of Mill Street from Tennie Drive to Oakridge Boulevard from a Collector 2-Lane Undivided to a Residential Street and Make a Recommendation to the City Council Regarding the Amendment

Kevin Nims presented this item to the Board, stating that this item refers to the Thoroughfare Plan. He clarified that the designation should be changed from a Collector 2-Lane Undivided to a Residential Street. North of Oakridge Boulevard the roadway does not meet the volume required for a collector street. The street is currently used as a typical minor carrier with single family residences facing the street. Taking off the designation would allow the speed limit to be reduced to 25 miles per hour as it would fall under the City's blanket ordinance for speeds on residential streets.

- Kristin Green asked about the future reconstruction of the street. David Salmon explained that appropriate street width will be assessed at the time of reconstruction but it is likely for the street width to remain close to current width.
- Mary Ellen Miksa asked about if street parking will be allowed. David Salmon explained that the staff was pursuing no parking along the street.
- Sean Kirk asked about current residents parking needs. David Salmon explained that not allowing any parking along the street was discussed at the neighborhood meeting a year ago. Residents did not show objections.

A motion was made by Kristin Green and seconded by Mary Ellen Miksa to approve Consideration of an Amendment to the City Thoroughfare Plan to Change the Designation of

Mill Street from Tennie Drive to Oakridge Boulevard from a Collector 2-Lane Undivided to a Residential Street and Make a Recommendation to the City Council Regarding the Amendment. There were all ayes and the motion passed unanimously (6-0).

Item No. 5 – Consideration of Amending the Speed Limit on Church Street from Mill Street to Herod from 30 Miles per hour to 25 Miles per hour and Make a Recommendation to the City Council in Regard to the Amendment

Kevin Nims presented this item to the Board, stating that the nature and characteristics of this section of street is changing due to local area developments, proposed street improvements and increasing activities around the Wayne Ferguson Plaza and the Medical Center of Lewisville Grand Theater. Staff performed a speed survey and recommends setting a speed limit at 25 miles per hour, which meets the recommendation from the Texas Manual of Uniform Traffic Control Devices (TMUTCD) to set the speed limit at 5 miles per hour increments above or below the 85th percentile speed.

- Brandon Jones asked about enforcement measures. Kevin explained that it has not been addressed at this point.
- Kristin Green commented that this move will likely improve pedestrian safety.

A motion was made by Brandon Jones and seconded by Kristine Green to approve Consideration of Amending the Speed Limit on Church Street from Mill Street to Herod from 30 Miles per hour to 25 Miles per hour and Make a Recommendation to the City Council in Regard to the Amendment. The vote was all ayes and the motion passed unanimously (6-0).

Item No. 6 – Consideration of Amending the Speed Limit on Charles Street from College Street to Main Street from 35 Miles per hour to 25 Miles per hour and Make a Recommendation to the City Council in Regard to the Amendment

Kevin Nims presented this item to the Board, stating that due to recent developments in Old Town, this section of Charles Street is seeing a significantly different type of traffic flow. Additional traffic and pedestrian activity is expected once the restaurants along the north side of the street, west of Charles Street open.

A motion was made by Sean Kirk and seconded by Kristine Green to approve Consideration of Amending the Speed Limit on Charles Street from College Street to Main Street from 35 Miles per hour to 25 Miles per hour and Make a Recommendation to the City Council in Regard to the Amendment. The vote was all ayes and the motion passed unanimously (6-0).

Item No. 7 – Consideration of Prohibiting Parking on Purnell Street from Kealy Avenue to 230 feet East of Kealy Avenue on the North side of Kealy Avenue and from Kealy Avenue to 220 feet East of Hembry Street on the South Side of Kealy Avenue and Make a Recommendation to the City Council in Regard to the Amendment

Kevin Nims presented this item to the Board. Kevin explained on-street parking is generally allowed for residential properties fronting a roadway within the city; however, any commercial properties are required to provide adequate on-site parking. Staff received a request from a

citizen to consider prohibiting parking on Purnell Street due to the difficulty of accessing Purnell from Hembry. Staff surveyed the location and contacted the local property and business owners for their input. Visibility is significantly reduced due to parked cars on Purnell, which is hazardous for the driving public at large.

A motion was made by Brandon Jones and seconded by Sean Kirk to approve Consideration of Prohibiting Parking on Purnell Street from Kealy Avenue to 230 feet East of Kealy Avenue on the North side of Kealy Avenue and from Kealy Avenue to 220 feet East of Hembry Street on the South Side of Kealy Avenue and Make a Recommendation to the City Council in Regard to the Amendment. The vote was all ayes and the motion passed unanimously (6-0).

Respectfully Submitted,

Sagar Medisetty, PE
Traffic Engineer

Approved,

, Chair
Transportation Board

AGENDA SUPPORT MATERIAL

September 20, 2016

Item No. 3 – Minutes

A copy of the minutes of the March 15, 2016 meeting is attached. If there are any questions or corrections, please contact Daphne Adair at 972-219-3490; Kevin Nims at 972-219-3703; or Sagar Medisetty at 972-219-5027.

Item No. 4 – Visitors/Citizens Forum

At this time, any person with business before the Board not scheduled on the Agenda may speak to the Board. No formal action can be taken on these items at this meeting.

Item No. 5 – Consideration of Establishing a School Speed Zone on Bellaire Boulevard from 100 feet east of Old Orchard Lane to 100 feet east of Catalina Drive and Make a Recommendation to the City Council Regarding the Amendment

Action Possible Action Informational Item

Presenter: Kevin Nims

Background:

Two school zones presently exist on Bellaire Boulevard. One from the intersection of Garden Ridge Blvd. to 250 feet east of Garden Ridge Boulevard for the Vickery Elem. campus in Flower Mound and the second from 100 feet east of Old Orchard Lane to 400 feet west of Valley Parkway. This school zone provides coverage for the Hedrick Elementary and Hedrick Middle School campuses located on the south side of Bellaire within that school zone. Pedestrian traffic across Bellaire is heavy during both the morning arrival and afternoon dismissal periods at the mid-block crosswalk in front of the Hedrick Campuses.

The Founders Classical Academy is located just east of the Lille J. Jackson Early Childhood Learning Center which is situated on the south east corner of Bellaire Boulevard and Valley Parkway just east of the furthest end of that school zone.

The Founders Classical Academy has seen a continued increase in enrollment and although the majority of students attending the school are delivered via personal vehicles, staff has observed a marked increase of use of the crosswalks at Gilani Lane and Bellaire.

Analysis:

Of the two school zones on Bellaire, one serves the students that cross Bellaire at Garden Ridge Boulevard to attend Vickery Elementary in Flower Mound, and the other serves the students attending one of the two schools to the south of Bellaire east of Old Orchard, either Hedrick

Elementary School or Hedrick Middle School. This school zone extends from 100 feet east of Old Orchard to 400 feet west of Valley Parkway on Bellaire just east of Oakgrove Drive (see image below).

The present extent of the existing school zone provides coverage for the students crossing Bellaire mid-block in front of the Hedrick Schools. Pedestrian traffic travels to/from both the neighborhoods and apartment complexes north of the school campuses.



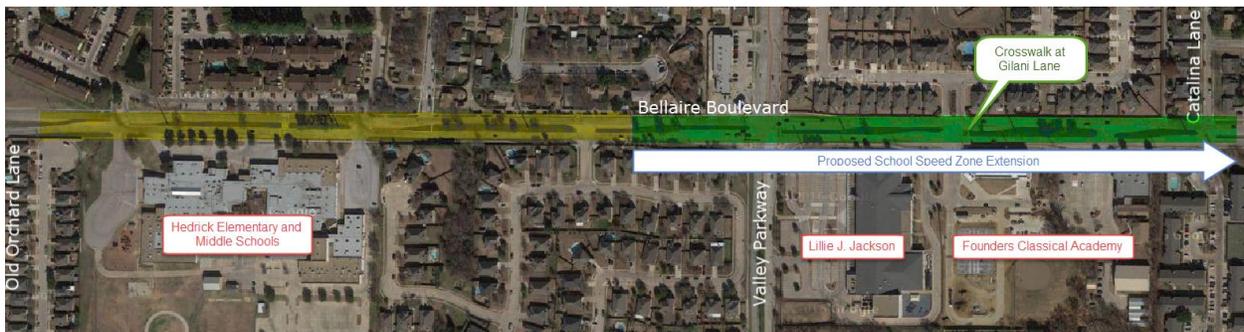
(The present extent of the school speed zone on Bellaire for the Hedrick School Campuses)

At the beginning of the 2016-2017 school year, staff received several requests from the administrators of the Founders Classical Academy Charter School at 1010 Bellaire Avenue along with concerned parents, for a school speed zone on Bellaire for the Founders Academy students crossing at the mid-block crosswalk at Gilani Lane. Staff observed the use of the crosswalk and has determined that although in past years the crosswalk saw minimal use by any but high school age students or young students accompanied by adults, the expansion of the school's facilities along with an increase in attending students has increased the use of the crosswalk. Students of elementary and middle school grade levels are now using the crosswalk daily. Staff has also observed greater pedestrian traffic on both the north and south sides of Bellaire as a result of the increased attendance at both the Founders Classical Academy and the Lillie J. Jackson Early Childhood Learning campus located immediately to the west of the Founders Academy campus. Parents with young students that attend the Lillie J. Jackson campus are also crossing at this location.



(Existing mid-block crosswalk at Gilani Lane)

Due to the existing use, staff is recommending the establishment of a school speed zone for the section of Bellaire adjacent to the Founders Academy. However, due to the existing school zone just west of the location on Bellaire, staff is recommending the existing school zone be expanded to provide consistent operation times and avoid driver confusion for drivers that use Bellaire along this stretch of the roadway.



(The proposed expansion of the School Speed Zone on Bellaire Blvd.)

The proposed extended school zone will operate at the same times as the present school zone. No alterations to the times of operation are being recommended. Present times are:
from 7:45 to 9:00 a.m. and 2:45 to 4:45 p.m.

Signs and markings can be installed or relocated by city personnel. The LISD has offered to provide the funding for the additional flashing beacons and sign assemblies which will be needed.

The other existing school speed zone on Bellaire Boulevard will remain unaffected.

Recommendation:

That the Transportation Board recommend approval to the City Council to establish a school speed zone on Bellaire Boulevard; from 100 feet of east of Old Orchard to 100 feet east of Catalina Drive effectively expanding the existing school zone to the new extent.

Item No. 6 – Consideration of Prohibiting Left-Turn and U-Turn Movements at the Intersection of Bellaire Avenue and Gilani Lane by Time of Day and Make a Recommendation to the City Council in Regard to the Prohibition

Action Possible Action Informational Item

Presenter: Sagar Medisetty

Background:

Staff has received requests from both Founders Classical Academy of Lewisville and Lillie J. Jackson Early Childhood Center regarding prohibiting left turn movements and U-turn movements at the median opening on Bellaire Boulevard at the intersection of Gilani Drive by time of day. These turn restrictions are requested on all four approaches at the median opening during the early morning student drop-off times between 07:15 am and 09:00 am. The left turn movements and the U-turn movements at this median opening conflict with the pedestrians in the heavily utilized pedestrian crosswalks at the median opening and also create traffic congestion during the morning school drop-off times. U-turns are typically prohibited where the movement may not be expected or where other drivers or pedestrians may not have the time to react to the vehicle maneuver.

Analysis:

Intersection of Bellaire Boulevard and Gilani Ln:



Looking west on Bellaire Boulevard near the median opening at Gilani Lane

During the morning school drop-off time periods for both Founders Academy and Lillie J. Jackson Early Childhood Center schools, the left turn movements and U-turn movements at the median opening create pedestrian to vehicle conflicts, vehicle to vehicle conflicts and result in heavy traffic congestion. Both schools begin at about the same time and combined with the morning rush hour traffic, quite heavy congestion is experienced at the intersection. During the afternoon pick-up times and the mid-day session changeover at the Lillie J. Jackson school, the left and U-turn movements are not as critical because the pick-up/drop-off timings are more spread out.

Eastbound and westbound left turns and U-turns: The eastbound and westbound traffic have dedicated left turn lanes at the median opening. The westbound left turn lane turns into the private driveway for the two schools. The large turning movements create a conflict at the crosswalks with the pedestrians. Also, the left turning movement and U-turning movements cause a traffic jam at the median opening during the morning school drop-off times. The westbound turning traffic is sparse during the morning drop off period but nevertheless will conflict with the crosswalk traffic and will need to be prohibited to be consistent with the eastbound turning prohibition.

Northbound left and U-turns: There are two outbound lanes for northbound traffic exiting out of the shared private driveway between the two schools. Currently, the left lane is used to turn left and the right lane is used to turn right. During the morning drop off times, the heavy left turning movement causes the intersection to clog up at times. The administrators of the schools will block off the inside lanes with traffic cones during the mornings from 07:15 am – 09:00 am. A 'Right Turn Only' sign will be posted next to the outside lane to notify drivers that they would be able to only turn right from the outside lane. The right turning traffic will have opportunities to make a U-

turn at Catalina Drive and at the traffic light at Edmonds Lane in order to head westbound on Bellaire Blvd.

Southbound left and U-turns: Some parents choose to park their vehicles in the residential area to the north of the schools using Gilani Lane and then walk their kids across the Bellaire Blvd median opening at the crosswalk. When the drivers exit Gilani Ln to head eastbound on Bellaire Blvd, they conflict with the heavily utilized pedestrian crosswalks at the median opening.

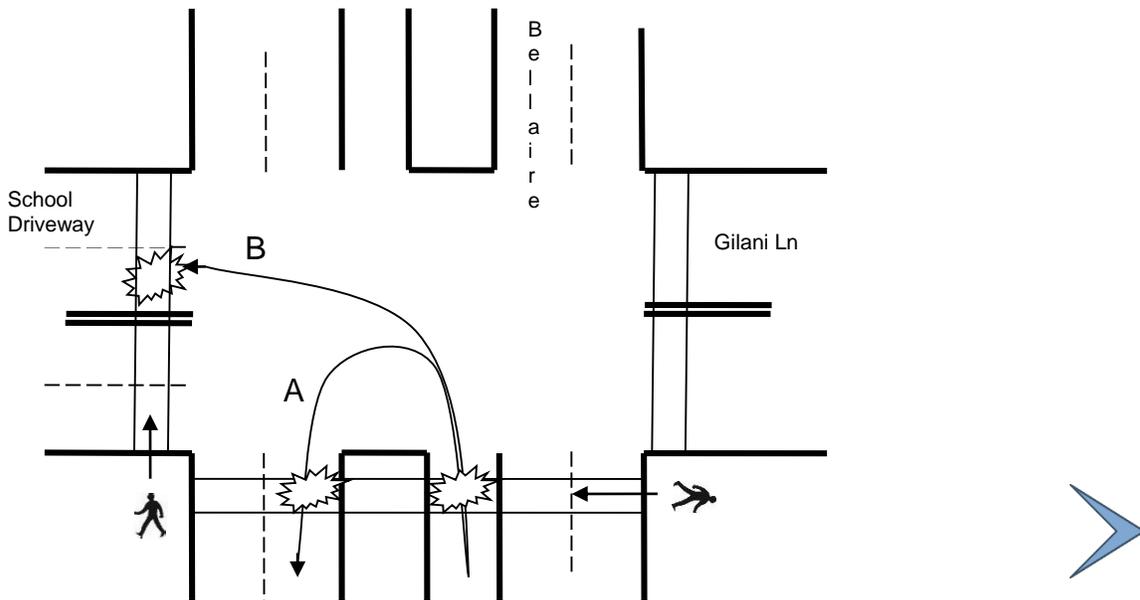


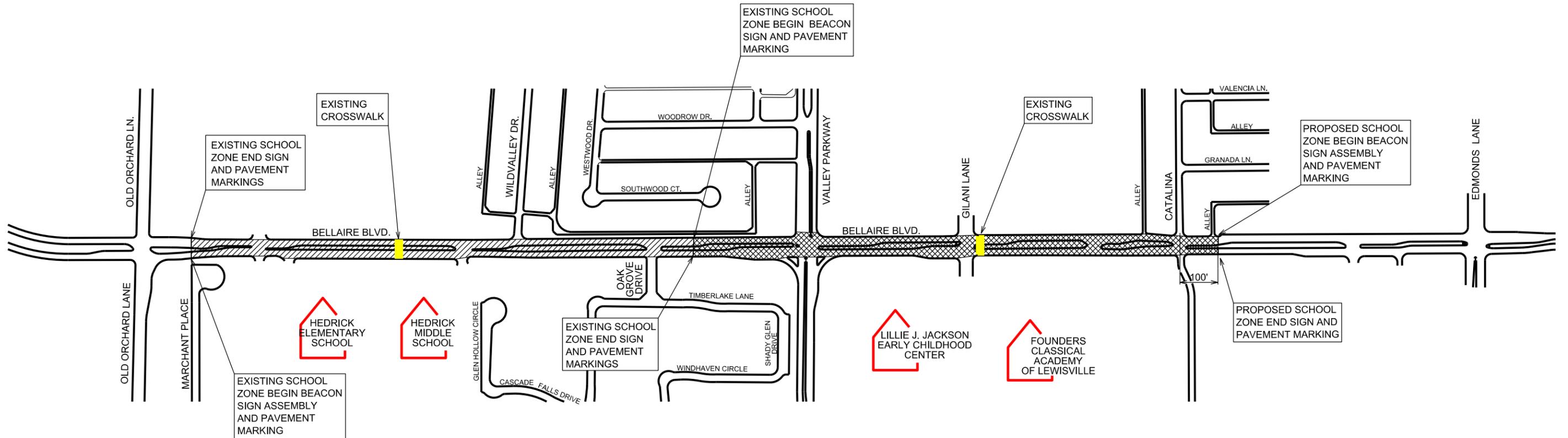
Figure: Illustration of pedestrian-vehicle conflict

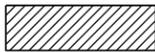
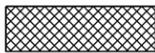
In order to provide a safe pedestrian crossing, a school crossing guard through the Lewisville Police Department has been posted at the intersection of Bellaire Boulevard and Gilani Lane. Prohibiting the left turn and U-turn movements at the median opening will enhance the safety of the kids crossing the street and improve the flow of traffic during the early morning school drop-off times.

The necessary signs will be installed by Public Services.

Recommendation:

That the Transportation Board recommend approval to the City Council to prohibit left-turn and U-turn movements at the intersection of Bellaire Boulevard and Gilani Lane by time of day.



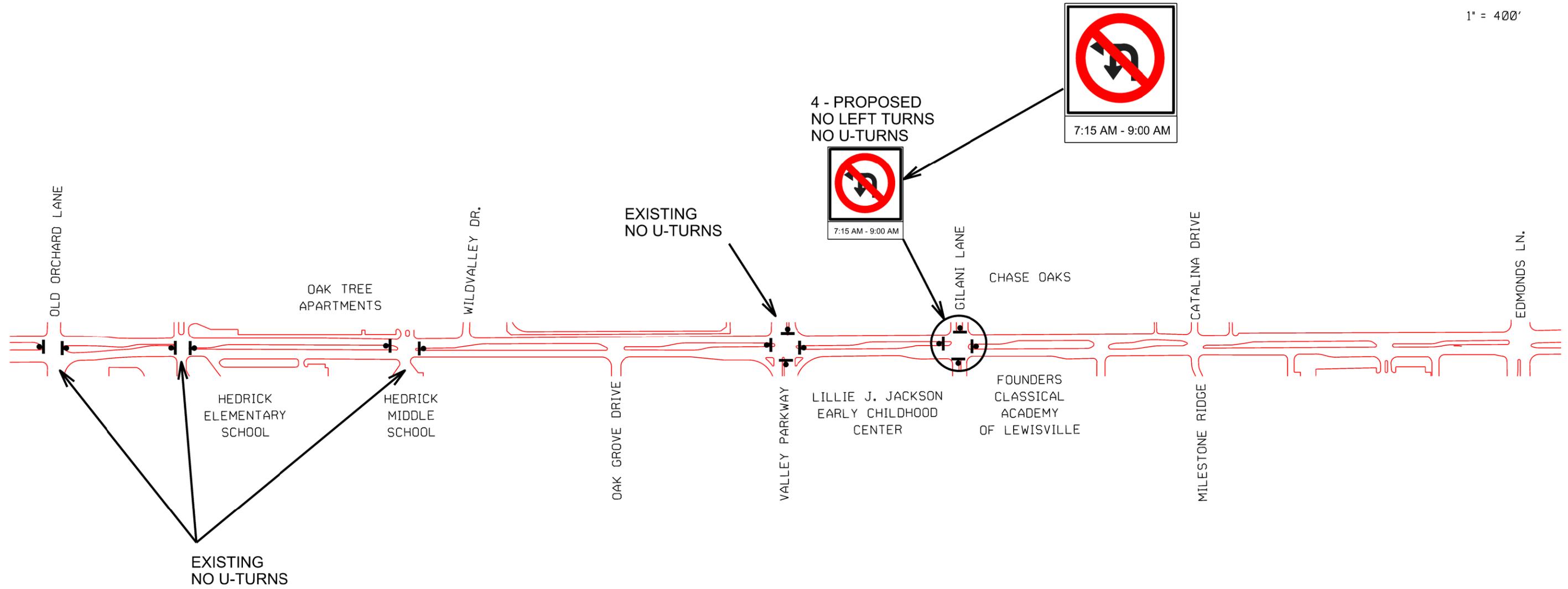
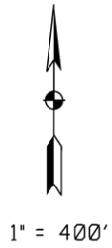
LEGEND	
	EXISTING SCHOOL ZONE
	PROPOSED SCHOOL ZONE EXTENSION



LOCATION MAP
FOR
SCHOOL ZONE EXTENSION ON BELLAIRE BOULEVARD

ENGINEERING DIVISION
TRAFFIC

SEPTEMBER
2016



PROPOSED NO LEFT TURNS AND NO U-TURNS
ON ALL FOUR APPROACHES AT THE MEDIAN
OPENING ON BELLAIRE BLVD. AT GILANI LN.