AGENDA

TOWN OF FLOWER MOUND TRANSPORTATION COMMISSION MEETING

01/11/2022

FLOWER MOUND TOWN HALL, 2121 CROSS TIMBERS ROAD
FLOWER MOUND, TEXAS

6:30 P.M.

****

An agenda information packet is available online at http://www.flower-mound.com/AgendaCenter

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Please silence or turn off all electronic devices in Jody Smith Hall

A. CALL REGULAR MEETING TO ORDER

B. PLEDGE OF ALLEGIANCE

C. PUBLIC COMMENT

To speak to the Commission during public comment, please fill out a comment form.

- Speakers are limited to 3 minutes, however this can be adjusted by the Chair
- Please state your name and address when speaking

The purpose of this item is to allow the public an opportunity to address the Commission on issues that are not the subject on this agenda. Issues regarding daily operational or administrative matters should first be dealt with by calling Town Hall at 972-874-6000 during business hours.

D. TRAFFIC MANAGER REPORT

- Update status report related to operational issues, capital improvement projects, and TxDOT projects
- Future Transportation Commission meeting dates
  - February 8, 2022
- Joint Work Session
  - Parks Board Regular Meeting – March 3, 2022
- Future agenda items

E. CONSENT ITEMS

This part of the agenda consists of non-controversial or "housekeeping" items required by law. Items may be removed from Consent by any Commissioner by making such request prior to a motion and vote.

1. Minutes 11/09- Consider approval of the minutes from a regular meeting of the Transportation Commission held on November 9, 2021.

F. REGULAR ITEMS

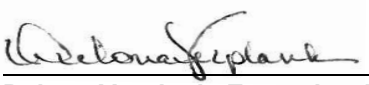
2. Consider a recommending approval for a Master Plan Amendment – Stonecrest Road Extension and to change classification of East/West Urban Minor Arterial with Bike Lane to an Urban Collector east of Denton Creek Boulevard to the Planning and Zoning Commission and Town Council.

G. WORK SESSION ITEMS

3. Presentation and discussion related to list of potential Transportation Commission Work Topics for 2022.

H. ADJOURNMENT

I do hereby certify that the Notice of Meeting was posted on the bulletin board in Town Hall of the Town of Flower Mound, Texas, a place convenient and readily accessible to the general public at all times and said Notice was also posted on the Town's website in accordance with GC Section 551.056 on the following date and time: January 7, 2022 at 3:00 PM, at least 72 hours prior to the scheduled time of said meeting.



Delona Verplank, Executive Assistant

The Flower Mound Town Hall and Jody Smith Hall are wheelchair accessible. Requests for accommodations or interpretive services must be made at least 48 hours prior to this meeting by contacting Delona Verplank at 972-874-6402.

TRANSPORTATION COMMISSION AGENDA ITEM NO. 1

CONSENT ITEM

DATE: January 11, 2022

FROM: Delona Verplank, Public Works Executive Assistant

ITEM: **Consider approval of the minutes from the regular meeting of the Transportation Commission held on November 9, 2021.**

BACKGROUND INFORMATION: This agenda item is to consider approval of the minutes from the November 9, 2021 regular meeting of the Transportation Commission.

CITIZEN FEEDBACK: N/A

ALTERNATIVES/OPTIONS: N/A

FISCAL IMPACT: N/A

LEGAL REVIEW: N/A

ATTACHMENTS:

1. Draft minutes 11.09

DRAFT MOTION: Move to approve as presented in the agenda caption.

THE FLOWER MOUND TRANSPORTATION COMMISSION REGULAR MEETING HELD ON THE 9TH DAY OF NOVEMBER, 2021 IN THE FLOWER MOUND TOWN HALL, LOCATED AT 2121 CROSS TIMBERS ROAD, IN THE TOWN OF FLOWER MOUND, COUNTY OF DENTON, TEXAS AT 6:30 P.M.

The Transportation Commission met in regular session with the following members present:

Bjorn Vandug	Commissioner, Place 1
Brian Taylor	Vice Chair
Ron Hogue	Commissioner, Place 3
Scott Jostes	Commissioner, Place 4
Cheryl Moore	Commissioner, Place 5
Charlie Landry	Commissioner, Place 7

(Places 8 and 9 of the Commission do not vote on items unless they sit in place of one of the regular members; Places 1-7.)

Chris Reed	Chair
Michelle Jackson	Commissioner, Place 8
Louis Viscusi	Commissioner, Place 9

With the following members of the Town staff participating:

Matthew Hotelling	Traffic Engineer
Delona Verplank	Executive Assistant

A. CALL TO ORDER - REGULAR SESSION – 6:30 P.M.

B. PLEDGE OF ALLEGIANCE

C. PUBLIC PARTICIPATION

None

D. TRAFFIC MANAGER REPORT

- Update status report related to operational issues, capital improvement projects, and TxDOT projects
- Future Transportation Commission meeting dates
  - December 14, 2021
- Future agenda items

E. CONSENT ITEMS

1. Consider approval of minutes from the regular meeting of the Transportation Commission held on October 12, 2021.

DRAFT

Commissioner Hogue made a motion to approve Consent Item 1 as presented in the agenda caption identified above. Commissioner Moore seconded the motion.

VOTE ON THE MOTION *Motion passed (6-0)*

AYES: Vandug, Hogue, Taylor, Jostes, Moore, Landry

NAYES: None

ABSENT: Reed, Jackson, Viscusi

F. WORKSESSION ITEM

2. Discussion regarding Adaptive Signal Control and location for simulation project for 2021.

G. ADJOURNMENT – 7:10 P.M.

TOWN OF FLOWER MOUND
TRANSPORTATION COMMISSION

_____
CHRIS REED, CHAIR

ATTEST:

_____
DELONA VERPLANK, EXECUTIVE ASSISTANT

DRAFT

TRANSPORTATION COMMISSION AGENDA ITEM NO. 2

REGULAR ITEM

DATE: January 11, 2022

FROM: Matthew J. Hotelling, P.E., PTOE, ADAC, Senior Engineering Transportation Manager

ITEM: **Consider a recommending approval for a Master Plan Amendment – Stonecrest Road Extension and to change classification of East/West Urban Minor Arterial with Bike Lane to an Urban Collector east of Denton Creek Boulevard to the Planning and Zoning Commission and Town Council.**

BACKGROUND INFORMATION: As far back as the 2000 Master Thoroughfare Plan, Attachment 1, the Stonecrest Road was shown as an Urban Collector that ran from the northern Town Limits to FM 1171 (Cross Timbers Road) and East/West Arterial east of Denton Creek Boulevard was identified. Stonecrest Road had a slightly different alignment from the most recent (2018) Master Transportation Plan, Attachment 2. An Urban Minor Arterial (UMA) is a 4 lane divided roadway with a center median and 90 feet of right of way (ROW). Urban Minor Arterials are intended to supplement the major arterials by providing connections between them. Urban Collector is a 2 lane undivided roadway and 60 feet of ROW. Urban Collectors are intended to connect residential and commercial areas to the arterial system with the intent of carrying less traffic for shorter distances.

The other street in the vicinity of this proposed thoroughfare plan change: FM 1171 (Cross Timbers Road), Denton Creek Boulevard; Canyon Falls Drive and US 377. FM 1171, and US 377 are classified as a Major Arterials. Major Arterials is a 6 lane divided roadway designed to carry the longest trips and have the highest volumes and have a ROW of 120 feet. This classification of FM 1171 has been on the Thoroughfare Plan prior to 2000. Canyon Falls Drive and Denton Creek Boulevard are both Urban Minor Arterials with Bike Lane (UMAwBL). The intent of an UMAwBL is the same as a regular Urban Minor Arterial with the added feature of a 5 foot wide bike lane in both directions.

Both Stonecrest Road and the East/West UMAwBL on the current thoroughfare plan have crossing over the Union Pacific Railroad (UPRR). Based on recent experience, these crossing would be difficult at best and would result in a long process to implement Quiet Zones at these locations. In addition, recent experience the new crossing would cost the Town a minimum of $30,000 annually per crossing to have UPRR maintain them in perpetuity after the initial cost of constructing the crossing.

CURRENT PLANNING DEPARTMENT APPLICATION REQUEST: The thoroughfare plan roadway network is generated by various factors but land use and zoning are major factors. The area surrounding the Stonecrest Road extension and the change of the East/West UMAwBL. The surrounding area of this proposed thoroughfare plan change is currently zoned as Interim Holding with a Lane Use Plan of Campus Industrial within the Denton Creek District. Campus Industrial several various land uses allowed such as general warehouse, general office and a plethora of other uses. A complete listing of those uses can be found in the Town's Code of Ordinances under Division 23 in section 98-872.

Currently, this area has a request for zoning change to change the zoning to be part of a Zoning Planned Development district with campus industrial which is in compliance with the Town's Master Plan. There are currently 1 application received and under review by the Planning Department for this area: Cross Timbers Business Park (Attachment 3).

As part of the application, a traffic impact analysis (TIA) was completed and a portion of this TIA was to look at the proposed thoroughfare plan change. An excerpt from this TIA on the discussion of the proposed Thoroughfare Plan is attached to this item as Attachment 4. One of the items to be determined by the TIA was to determine the need for the UMAwBL versus downgrading to an Urban Collector.

RESULTS OF THE TIA: The results of both of the TIAs indicated that in the opinion of the Kimley Horn and Associates, that the proposed change in alignment of Stonecrest Road has no significant impact on any of the surrounding thoroughfare roadways. The capacity of the proposed Urban Collector handles the anticipated traffic based on the Travel Demand Model and can be changed without impacting any of the surrounding thoroughfare roadways

According to the TIA, the level of service (LOS) at the FM 1171/Denton Creek Boulevard intersection for the intersection with the addition of the Cross Timbers Business Park traffic at build out in 2025 would result in a LOS of E and F in the northbound and southbound directions, respectively. Based on this scenario in the build out year, the TIA recommended that a traffic signal be considered for this location. With the addition of a traffic signal at this location, the LOS changes to LOS B and LOS C.

PROPOSED THOROUGHFARE PLAN OPTIONS:

Option 1. Leave Thoroughfare Plan as is. This plan would be the same as the most current Thoroughfare Plan which would keep the current alignments and classifications of roadways.

> **Pros:** This would provide virtually the same connection as the proposed changes with additional capacity.
>
> **Cons:** Roadway overdesigned for the expected traffic predicted by the TIA. Not needed based on opinion of Kimley Horn and Associates. There would be significant increase in cost to the Town for the two UPRR crossings with annual maintenance fees in perpetuity. Motorists would have to cross the railroad twice to get to the same location.

Option 2. Change the designation of the proposed East/West UMAwBL to an Urban Collector and eliminate the UPRR crossings. This plan would be similar to the most current Thoroughfare Plan.

> **Pros:** This would provide a connectivity similar to the current plan. The removal of the crossings of UPRR would eliminate annual fees and the high cost of crossing the railroad tracks. It would support the anticipated traffic from the surrounding proposed land uses without impacting any of the surrounding thoroughfare streets.
>
> **Cons:** It would remove a set of bike lanes from the bikeway network in this area. It would provide less connectivity to US 377 for the western properties and less connectivity to Denton Creek Boulevard for the eastern properties.

Option 3. Same as Option 2 except for the recommendation to add a shared bike lane component to the Parks and Trails Master Plan for the east/west direction of Stonecrest Road. The current north/south portion of Stonecrest Road is currently designated as a shared bike lane facility on the Parks and Trails Master Plan.

> **Pros:** Same as Option 2 but allows for more awareness to be given to the bicyclists and adds the corresponding pavement markings and signage. This change could be easily added as the Parks Master Plan is going through the process of being revised.
>
> **Cons:** Same as option 2

Attachments:

1. 2000 Thoroughfare Plan
2. 2018 Thoroughfare Plan
3. Cross Timbers Business Park Concept Plan
4. Excerpt from Traffic Impact Analysis for Cross Timbers Business Park

DRAFT MOTION: Move to recommend approval of Option ___ for a Master Plan Amendment – Stonecrest Road Extension to the Planning and Zoning Commission and Town Council.

TRC Attachment 1

Kimley-Horn and Associates, Inc

TOWN OF FLOWER MOUND
THOROUGHFARE PLAN

N

Diamond Interchange

RailRoad Location to Remain

Preferred RailRoad Location If Allowed

Potential Overpass

377

35

1171

407

3040

2499

2499

FM 407

VALLEY PKWY

COLLEGE PKWY

MAIN ST

BELLAIRE BLVD

CORPORATE DR

ROUND GROVE

SPINKS RD

LAKESIDE

DUNCAN

FLOWER MOUND RD

QUAIL RUN

PETERS COLONY

DIXON LN

VALLEY RIDGE

WAKETON RD

KIRKPATRICK LN

TIMBER CREEK

FOREST VISTA

McKAMY

GERAULT

LEDBETTER

CARDINAL RD

WICHITA TRL

MORRIS DR

MORRIS

MCMAHON RD

HIGH RD

RIDGECREST

OLD SETTLER'S RD

SCENIC RD

SKELLERN

LUSK LN

CHURCH

LONG PRAIRIE RD

GARDEN RIDGE

SIMMONS

FIREWEED

SAGEBRUSH

BALTUSROL DR

CROSS TIMBERS

CREEKWOOD

CREEK CROSSING

FUNCTIONAL STREET CLASSIFICATION SYSTEM

- Major Arterial
- Greenway Urban Arterial
- Greenway Rural Arterial
- Urban Minor Arterial
- Urban Minor Arterial Undivided
- Urban Collector
- Rural Collector
- Service Road
- Local Streets

3000 0 3000 6000 Feet

TOWN OF FLOWER MOUND
THOROUGHFARE PLAN

THE TOWN OF FLOWER MOUND TEXAS

0 2,000 4,000 8,000

Scale in Feet

Kimley»Horn

May 21, 2018

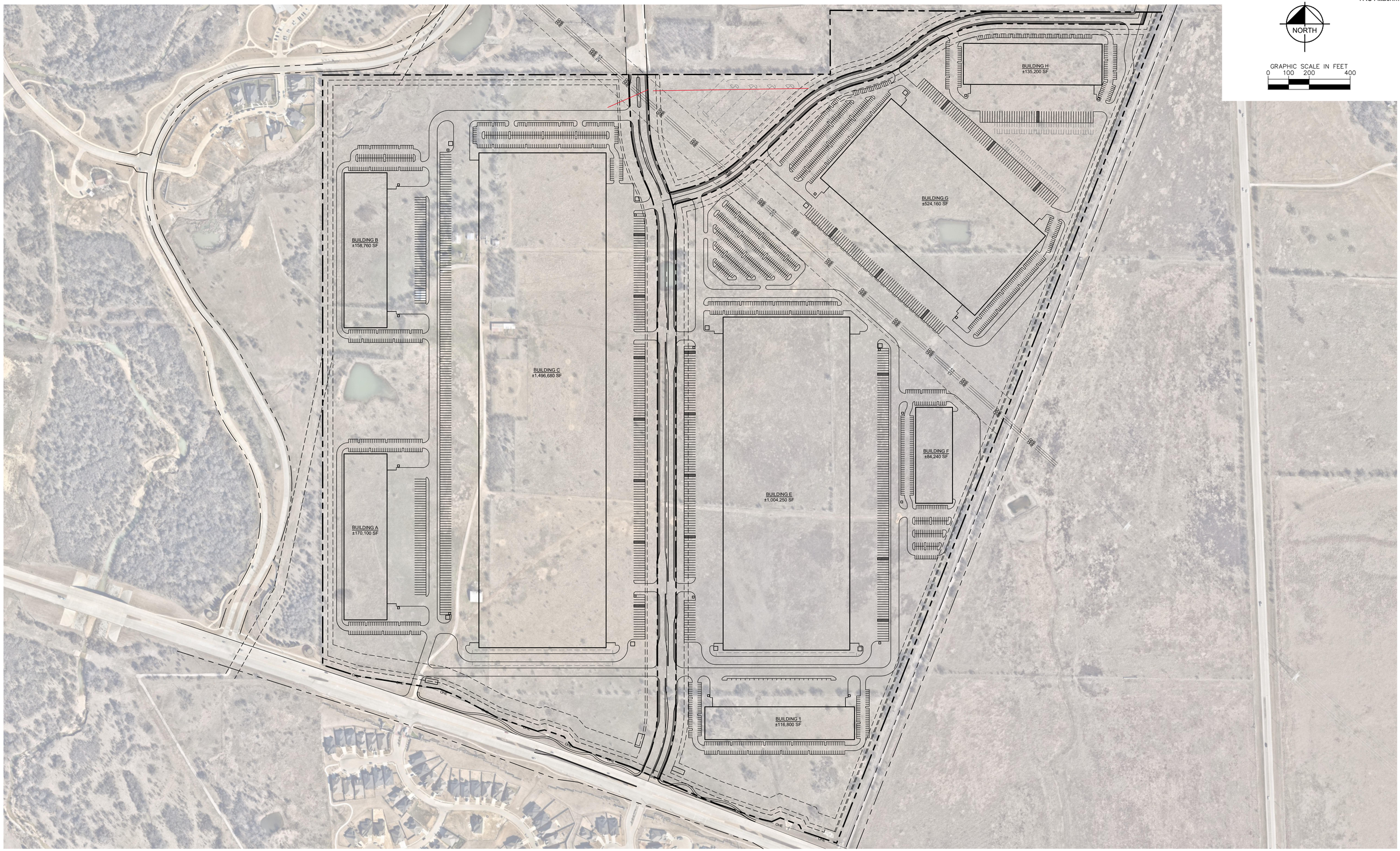
Functional Street Classifications

- Roundabout
- Grade Separation
- Diamond Interchange
- Major Arterial
- Greenway Urban Arterial
- Greenway Rural Arterial
- Urban Minor Arterial w/Bike Lane
- Urban Minor Arterial w/On-Street Parking
- Urban Minor Arterial
- Urban Minor Arterial Undivided
- Urban Collector
- Rural Collector
- Service Road

N W E S

IH-35W
FM 1171
US HWY 377
RED ROCK LN
SHILOH RD
KINGS RD
LUSK LN
RIDGECREST DR
SCENIC DR
SKILLERN RD
WICHITA TRL
BRIDLEWOOD BLVD
QUAIL RUN
GRAND BLVD
BRUTON RD
AUBURN DR
FLOWER MOUND RD
SIMMONS RD
FM 407
CHINN CHAPEL RD
DIXON LN
WAKETON RD
RIPPY RD
BROWNING DR
STONE HILL DR
FARMS PKWY
VALLEY RIDGE BLVD
MORRISS RD
KIRKPATRICK LN
COLLEGE PKWY
TIMBER CREEK RD
W WINDSOR DR
EATON DR
CHURCHILL DR
FM 2499
PETERS COLONY RD
OLD SETTLERS RD
LONG PRAIRIE RD
SAGEBRUSH DR
FIREWHEEL DR
CROSS TIMBERS RD
FOREST VISTA DR
MCKAMY CREEK RD
FM 3040
LAKE FOREST BLVD
LEXINGTON AVE
STRATTON
GERAULT RD
GARDEN RIDGE BLVD
DUNCAN LN
ABERDEEN DR
SPINKS RD
LAKESIDE PKWY
SILVERON BLVD

Denton County
Tarrant County
Denton County
Dallas County



CHI - EWING SITE

FLOWER MOUND, TEXAS SEPTEMBER 2021

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Auxiliary Lane Analysis

Turn lane requirements were analyzed at the study intersections during the Build Out (2025) scenario based on the Town of Flower Mound's *Design Criteria* (April 2010). Based on the criteria, right and left-turn deceleration lanes will be required at all driveways served by a median opening. Additionally, right-turn lanes will be required at all driveways with a projected peak-hour right-turn entering volume of 50 vehicles or more.

All intersections were analyzed for the Build Out (2025) scenario. Based on the above criteria, the following are the recommendations for auxiliary lanes at the intersections:

- Provide a westbound right-turn deceleration lane at FM 1171 & Misty Ridge Drive due to the median opening.
- Provide eastbound left and westbound right-turn deceleration lanes at FM 1171 & Denton Creek Boulevard due to the median opening.
- Right and left-turn lanes are planned at each drive/median opening along the proposed Denton Creek Boulevard extension.

All auxiliary lanes along FM 1171 are to be constructed to TxDOT standards per the *Roadway Design Manual*.

Access Management

The Town of Flower Mound's Design and Construction Standards contain the Town's *Access Management Policy and Criteria*. The access spacing criteria is based on the functional classification and posted speed of the roadway. For an urban minor arterial with bike lanes such as Denton Creek Boulevard, the Town's access spacing criteria is 200 feet.

Criteria from TxDOT's *Access Management Manual* was applied to Drive 11 and the future Denton Creek Boulevard access locations. Along roadways with speed limits of 50 mph, TxDOT's access spacing criteria is 425 feet.

Based on the distances required and the proposed development's site plan, the proposed access driveways meet the Town and TxDOT's access management requirements.

Sight Distance

Field observations were performed to evaluate sight distance at the proposed FM 1171 access locations. Based on the field observations, adequate sight distance will be available. A photolog for the access locations is provided in the **Appendix**. It is recommended that all driveways be designed to provide adequate sight distance (i.e., clear sight with no obstructing object, signs, landscaping, etc).

Thoroughfare Plan Modeling

Per the conceptual site plan, Stonecrest Road is proposed to extend west, rather than south, to tie into the future Denton Creek Boulevard and replace to proposed urban minor arterial that would have connected Denton Creek Boulevard to Stonecrest Road. The Travel Demand Model was updated reflecting these changes to the MTP and evaluated considering anticipated traffic for the proposed Cross Timbers Business Park development.

Based on the modeling results, the change in the alignment of Stonecrest Road does not have a significant impact on the surrounding roadway network. The model shows that the future volume along Stonecrest Road is anticipated to be +/- 3,000 vehicles per day between Denton Creek Boulevard and Canyon Falls Drive. The model shows that the future volume along Denton Creek Boulevard is anticipated to be +/- 12,000 vehicles per day between Canyon Falls Drive and FM 1171.

TRANSPORTATION COMMISSION AGENDA ITEM NO. 3

WORK SESSION ITEM

DATE: January 11, 2022

FROM: Matthew J. Hotelling, P.E., PTOE, ADAC, Senior Engineering Transportation Manager

ITEM: **Presentation and Discussion related to List of Potential Transportation Commission Work Topics for 2022.**

BACKGROUND INFORMATION: Each year the Transportation Commission discusses potential work topics for the upcoming calendar year. The purpose of this agenda item is to develop a list of recommended 2022 Transportation Commission Work Topics to be submitted to the Town Council for consideration and discussion at their Strategic Planning Session. Certain annual topics will likely take place prior to the Strategic Planning Session such as sidewalk gap prioritization to prepare for the upcoming budget cycle.

The Ordinance that established the Transportation Commission assigned specific duties. Those duties include the following:

- Provide recommendations to Town Council and staff regarding short term and long term transportation needs of the Town.
- Advise the Town Council and staff regarding the implementation of the Neighborhood Traffic Management Policy.
- Advise the Town Council and staff regarding changes to regulatory traffic control, prioritization of transportation improvements, changes to the thoroughfare plan, and implementation of the reduced speed limit policy.
- Listen to unique citizen concerns relative to transportation.
- Perform such other duties as the Town Council may prescribe by ordinance or resolution.

The attached list of possible future work topics was compiled by staff with a request for input from the Transportation Commission members prior to and at this meeting. This list was compiled as a starting point for discussion by the Commission members to assist them in determining their final recommendation of Work Topics. This list is not an exhaustive list and Transportation Commissioners are welcome to bring ideas of their own to the meeting for discussion.

Attachments:

1. Status of the 2021 Work Topics
2. List of proposed Transportation Commission Work Topics for 2022

RECOMMENDATION: The purpose of this item is for the Transportation Commission to provide direction to staff on potential work topic items. No Formal Action is required.

LIST OF POTENTIAL WORK ITEM TOPICS

JANUARY 12, 2021 - RESULTS

- ADA Transition Plan update public meeting – No meeting held
- Thoroughfare Plan Update
    - Very likely update to western Flower Mound – (Furst Ranch Area) – This topic was not discussed last year. The new Flower Mound Ranch will be a topic of discussion for 2022.
- 2021 Sidewalk priority list – Completed
    - Not all gaps have completed construction but are completed design and in easement acquisition phase.
- Review 2021 Streets and Signals Reconstruction List - Completed
- Review 2021 Streets and Signals Construction List - Completed
- 2021 Street Light priority list – Was postponed.
- Potentially a Mass Transit – No meeting held for the Transportation Commission
    - Town Council held a meeting on the DCTA GoZone project
- Assigning of New Street Names. – No meeting held
- Autonomous Vehicle – No meeting held
    - Is this still a topic of interest?
- Bike/Scooter Rentals – Bike/Scooter “Litter” – Not chosen as a work topic
- Continued Fiber Optic Discussion/Smart Cities – Not chosen as a work topic
- NTTA Red Thumb Campaign – Want to know best way to get the word out about this. Not necessarily from NTTA or the red Thumb Campaign. – No meeting held
- Update from DFW Connector project - Completed
- Training of interest to the Commission – Various trainings such as roundabout and sign placement,
- Ideas from Transportation Commission from 2021

LIST OF POTENTIAL WORK ITEM TOPICS

JANUARY 11, 2022

- ADA Transition Plan update public meeting
- Thoroughfare Plan Update
    - Very likely update to western Flower Mound – (Flower Mound Ranch Area)
- 2022 Sidewalk priority list
- Review 2022 Streets and Signals Reconstruction List
- Review 2022 Streets and Signals Construction List
- 2022 Street Light priority list?
- Potentially a Mass Transit
- Assigning of New Street Names.
    - February meeting
- Autonomous Vehicle
    - If yes, what does the TRC want to hear about?
- Bike/Scooter Rentals – Bike/Scooter “Litter”
- Intelligent Transportation Systems Master Plan
- NTTA Red Thumb Campaign – Want to know best way to get the word out about this. Not necessarily from NTTA or the red Thumb Campaign.
- Morriss Road Speed Limit after construction
- FM 2499/FM 3040 intersection improvement project progress
- Training of interest to the Commission
- Ideas from Transportation Commission from 2022
    - Growth in western Flower Mound – Roads and Development update
    - Trail etiquette
    - Bike etiquette
    - Off Highway Vehicles/Golf Carts
    - Other ideas?