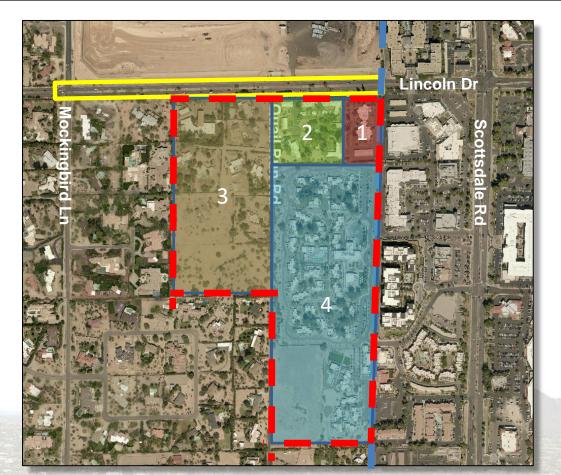
# **TOWN OF PARADISE VALLEY**

**Lincoln Drive Median Improvements** 



February 28, 2019

# **PROJECT LIMITS**



**Town Limits** 

**Project Limits** 

South Lincoln **Development Area** 



2 Smoke Tree Resort

3 | South Lincoln Development

4 Andaz Resort



### **PROJECT SCOPE**

- Reconstruct Lincoln Drive between Mockingbird Lane and Town Limits
- Improvement include:
  - Landscaped Medians
  - Traffic Signal at Quail Run
  - Sewer Line Extension
  - Meandering Sidewalks
  - Landscaping
  - Drainage Structures





# **DESIGN CONSIDERATIONS**

- What drives design?
  - General Plan, specifically Mobility Element
  - Five Star Development Agreement
  - Engineering Standards (AASHTO, CoS, MCDOT)
  - Visually Significant Corridors Master Plan
  - Ultimate Buildout of Corridor





# LINCOLN MEDIAN ACCESS: TIMELINE

#### September 13, 2018 Town Council Meeting

- Lincoln Roadway Improvements 30% Design Concept Outlined
- Median improvements necessary regardless of development on south side of Lincoln Dr.
- Full Median from Mockingbird to Town Limits
- Westbound Left In Only at Applewood Pet Resort's East Entrance
- Staff to research safe access options for Lincoln Medical Plaza and Smoke Tree Resort

#### December 6, 2018 Town Council Work Study

- Left In/Left Out for Applewood Pet Resort at East Entrance
- Option #1: Left In/Left Out for both Lincoln Medical Plaza & Smoke Tree Resort
- Option #2: Shared Access (Left In/Left Out) for Lincoln Medical Plaza & Smoke Tree Resort
- Option #3: Raised Median (Right In/Right Out Only) for Lincoln Medical Plaza & Smoke Tree Resort

#### January 24, 2019 Town Council Work Study

- Left In/Left Out for Applewood Pet Resort at West Entrance
- Shared Access for Lincoln Medical Plaza & Smoke Tree Resort To Accommodate Vehicle Storage & Deceleration
- Evaluate 40mph Speed Limit
- Evaluate Pedestrian Safety
- Provide Median Options from Mockingbird Lane to Quail Run Road
- Provide Full Median Options
- Provide Two Way Left turn Lane Option for Smoke Tree Resort & Lincoln Medical Plaza Access



# **KIMLEY-HORN FIELD OBSERVATIONS**

Kimley-Horn conducted field observations on Tuesday October 30<sup>th</sup> during the morning (7:30am to 8:30am) and evening from (4:30pm to 5:45pm). Key observations:

- Eastbound traffic backed up past both Lincoln Medical Plaza entrances and the eastern Smoke Tree Resort entrance.
- Three of these events were observed in the AM peak hour and five were observed in the PM peak hour.
- Traffic backup occurred in inner most eastbound lane.
- Outside lane was free flowing.
- Eastbound traffic that was backed up provided gaps for left turning vehicles which caused "near miss collisions".



# **KIMLEY-HORN FIELD OBSERVATIONS**

Eastbound Lincoln Drive traffic backup past Smoke Tree Resort eastern entrance.





### **SPEED LIMIT EVALUATION**

#### Traffic Volume and Speed Data Collection

- Traffic counters were set out the week of January 14<sup>th</sup>.
- Weekday westbound 85<sup>th</sup> percentile speed was 43 mph
- Weekday eastbound 85<sup>th</sup> percentile speed was 40 mph
- Weekday average westbound traffic was 6,800 vpd
- Weekday average eastbound traffic was 4,700 vpd
- Current speed limit is appropriately set a 40 mph

The 3<sup>rd</sup> party traffic engineer recommends keeping the posted speed limit at 40mph based upon speed data collected, proposed median improvement options and proposed development along the corridor.





### **PEDESTRIAN SAFETY**

The Lincoln Roadway Improvements will include meandering sidewalks on both the north and south sides of Lincoln Dr. as well as a signalized intersection at Quail Run Rd. with crosswalks. The Smoke Tree Resort and Lincoln Medical redevelopment projects will include sidewalks with their respective construction.





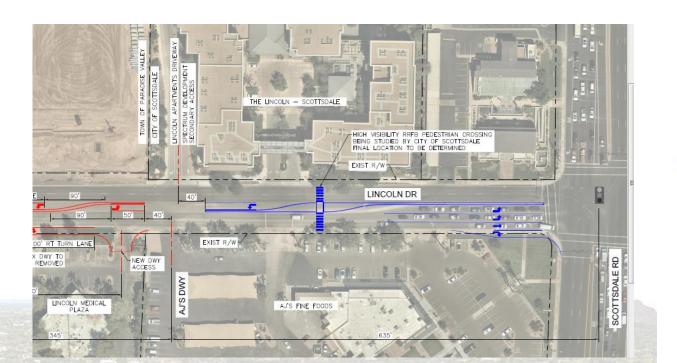




# **PEDESTRIAN SAFETY**

#### Potential City of Scottsdale Median and Crosswalk Improvements

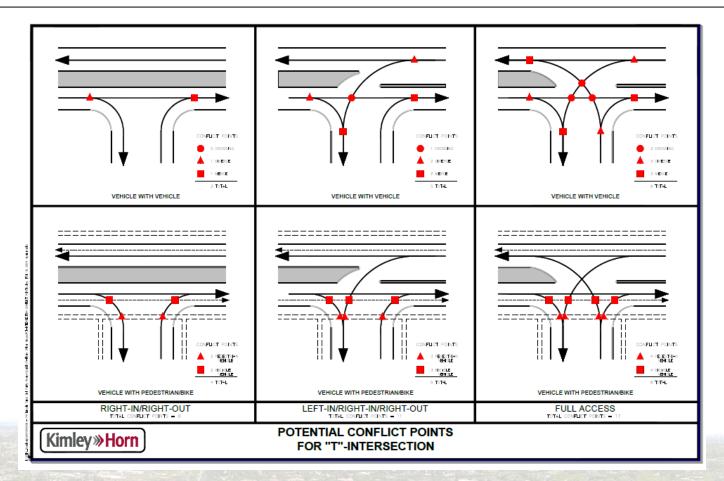
- Extend Median Across Lincoln Apartment's and AJ's Center Entrances
- Provide Pedestrian Crosswalk with Median Refuge and Rectangular Rapid Flash Beacon (RRFB)



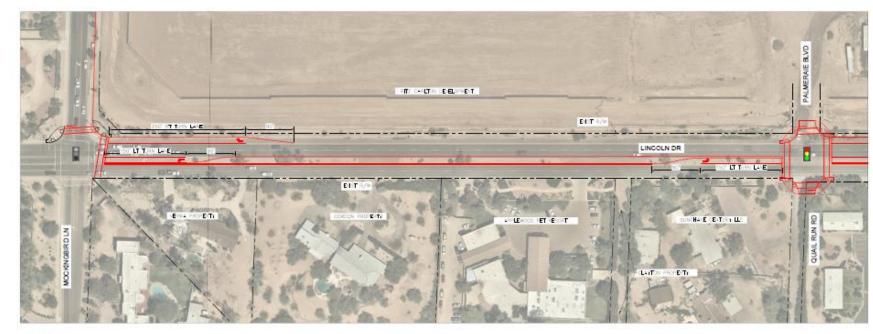




# POTENTIAL CONFLICT POINTS







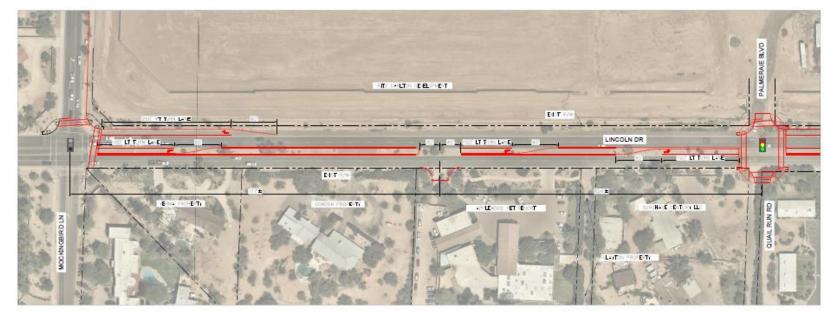










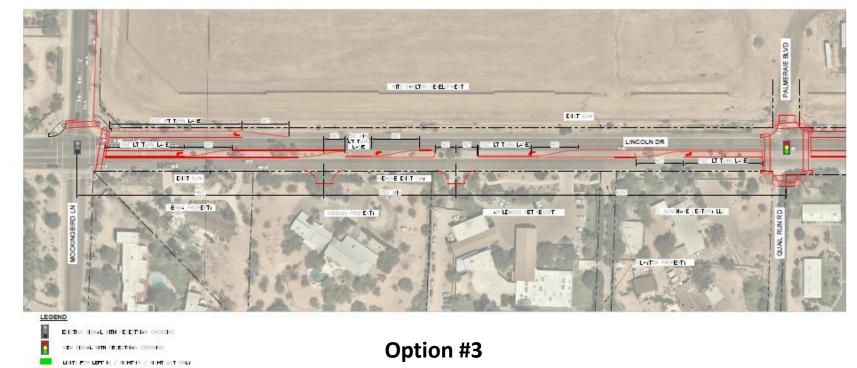








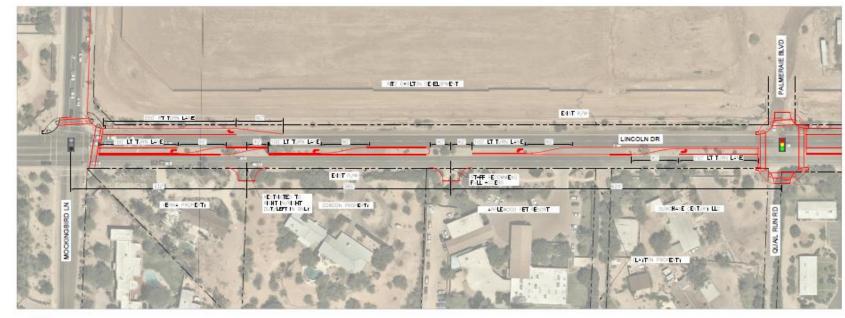














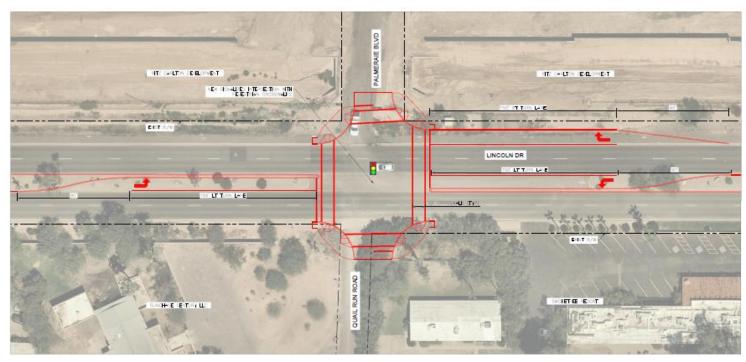
Option #4







# LINCOLN DR. & QUAIL RUN RD. INTERSECTION

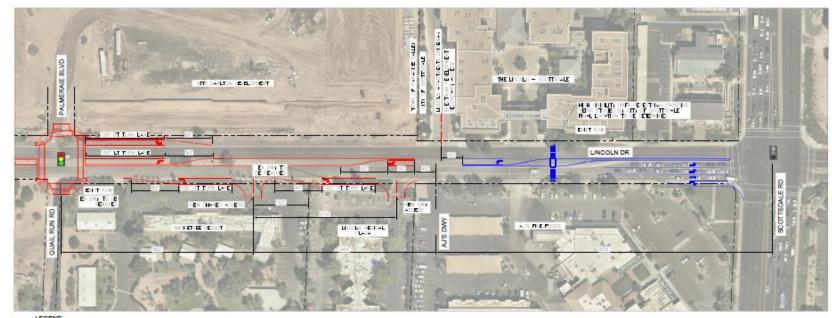


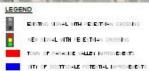










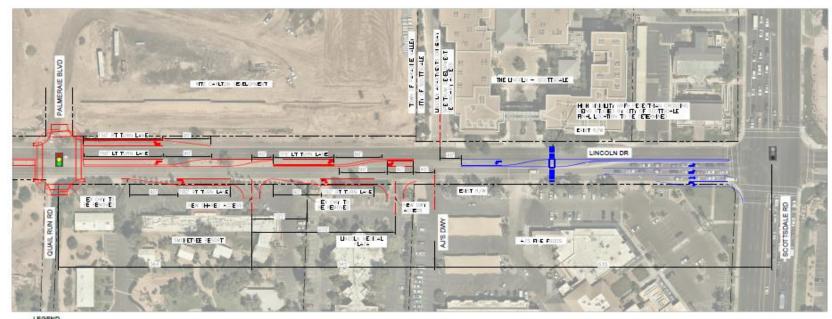


Option #1







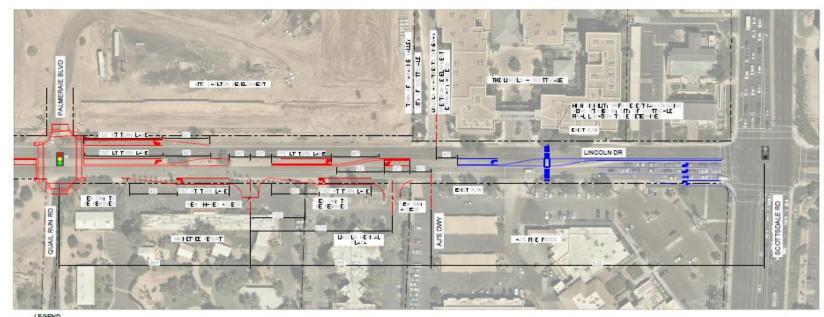


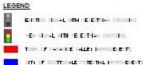








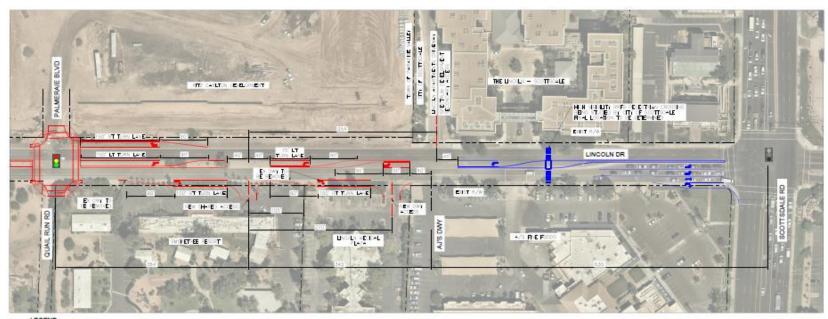










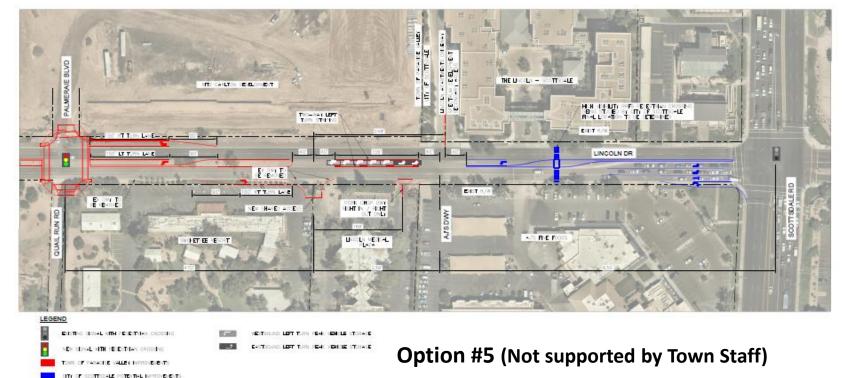


















### LINCOLN DR. MEDIAN OPTIONS

### Mockingbird Ln. to Quail Run Rd.\*

- Option #1: Full Median (Right In/Right Out Access Only For All Properties)
- Option #2: Full Access at Applewood Pet Resort West Entrance Only
- Option #3: Full Access at Applewood Pet Resort West Entrance and Left In at Gordon Property
- Option #4: Full Access at Applewood Pet Resort West Entrance and Left In at Verma/Gordon Property Line

### Quail Run Rd. to Scottsdale Rd.\*

- Option #1: Full Median (Right In/Right Out Access Only For All Properties)
- Option #2: Left In Only Shared Access for Smoke Tree Resort and Lincoln Medical Plaza
- Option #3: Shared Full Access for Smoke Tree Resort and Lincoln Medical Plaza
- Option #4: Full Access for Smoke Tree Resort and Right In/Right Out Access For Lincoln Medical Plaza
- Option #5: Two Way Left Turn Lane Along Smoke Tree Resort and Lincoln Medical Plaza Frontage



\* All options meet driveway spacing and required deceleration and storage lengths for turn lanes with the exception of Option #5 (TWLTL)

# **LINCOLN DRIVE MEDIAN IMPROVEMENTS**

# **QUESTIONS?**

