



City of Glendale – Transportation Update

Presentation to ASHE Sonoran Section

By: Tony S. Abbo, P.E., PTOE
City Traffic Engineer



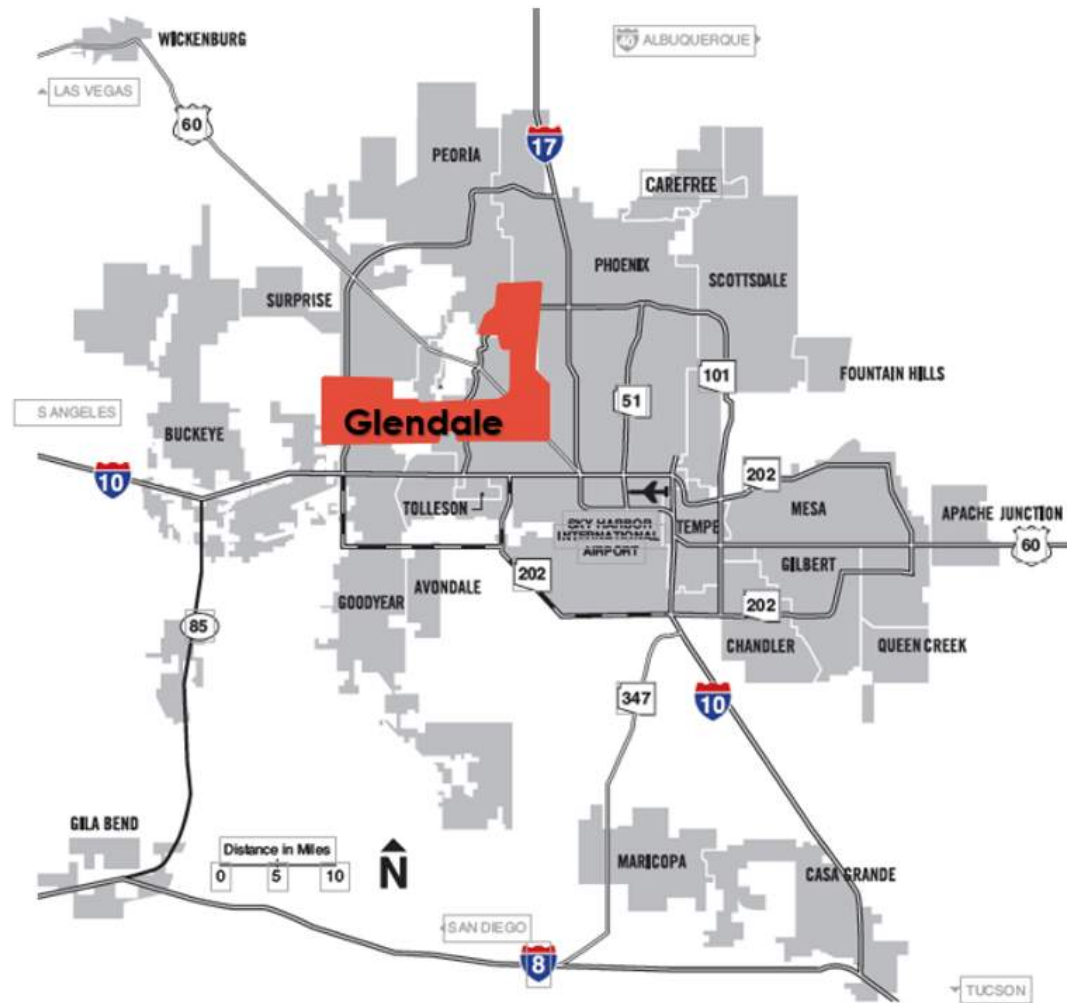


Overview



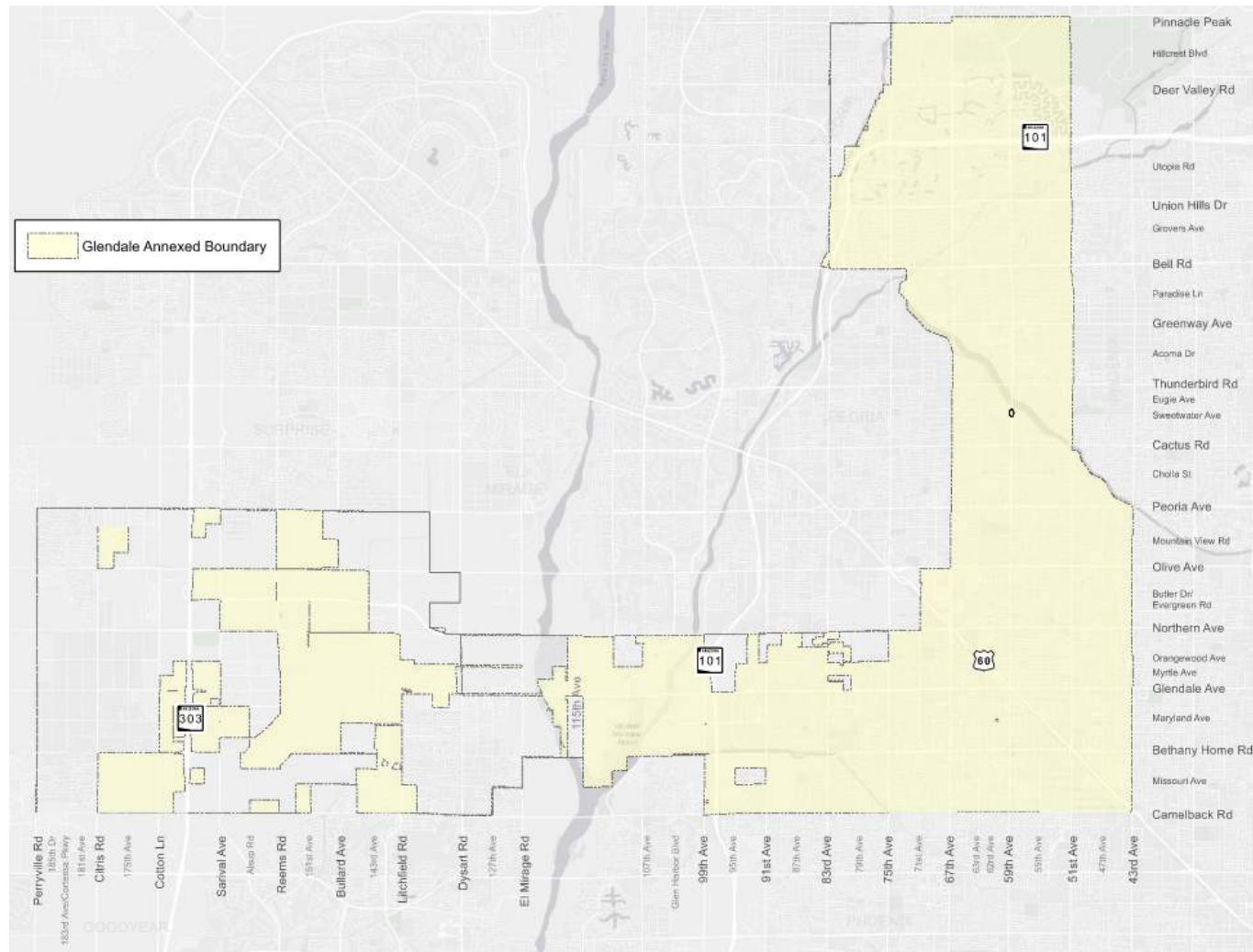


Overview



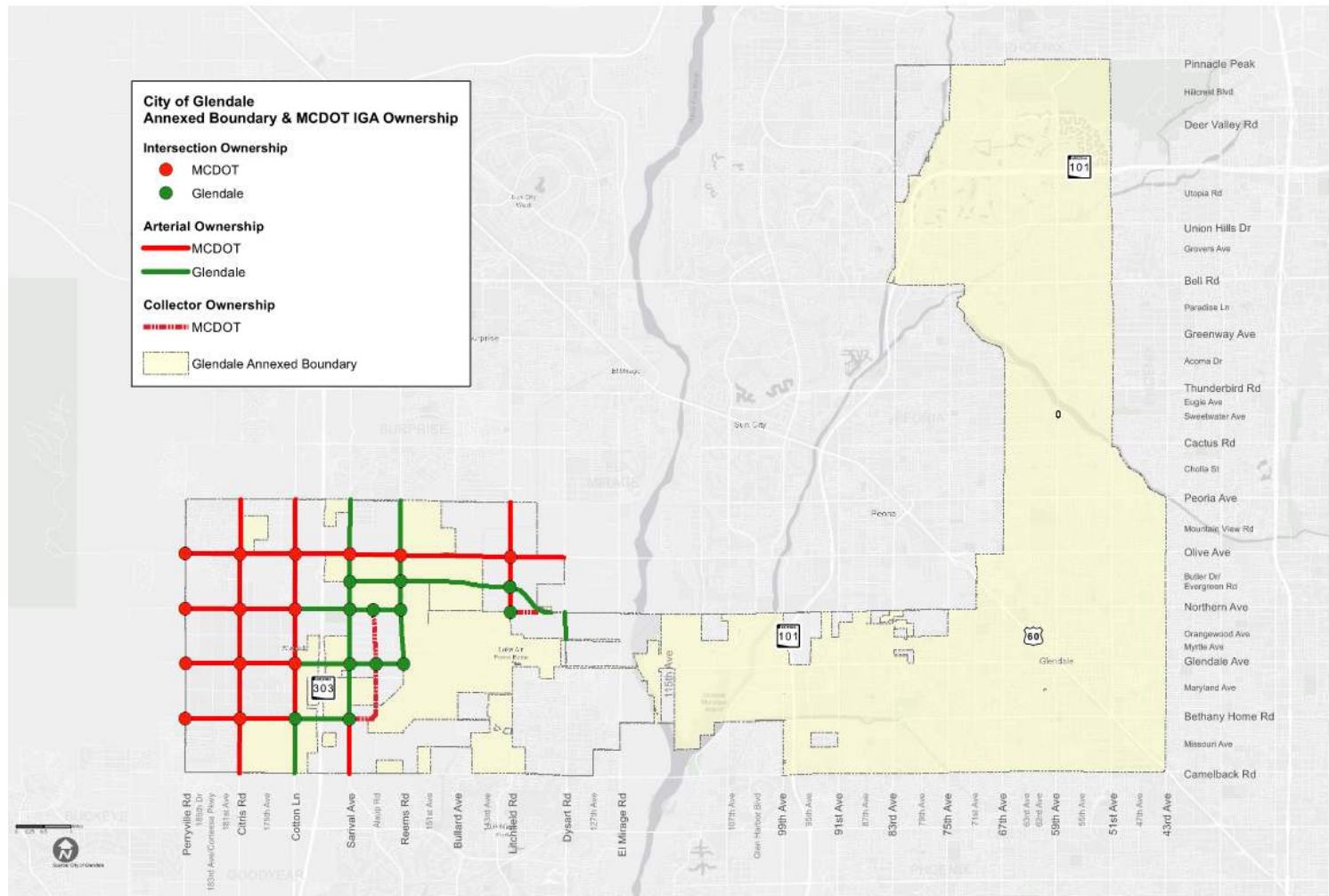


Glendale – Boundary Map



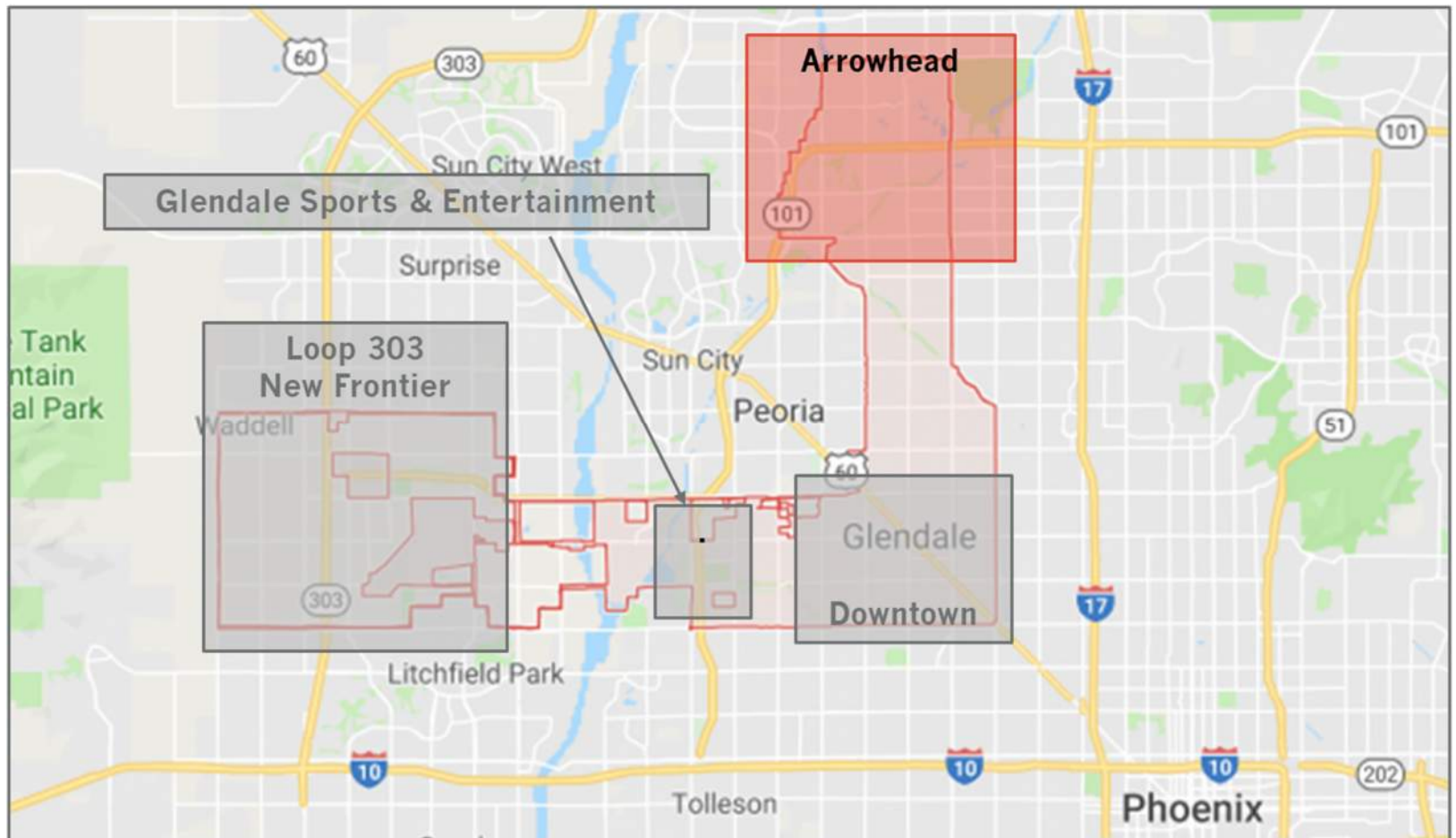


New Annexation in the Loop 303 Area





Glendale by Areas





Glendale

- 2021 population is estimated at 257,233
- 7th largest city in Arizona and the 88th largest city in the U.S.
- 62 square miles
- Average HH Income \$76,547
- Median Age 34



Development/Growth





Development Growth

- An explosion of growth around the Loop 303 area in west Glendale
- Growth in the Westgate area
- Other (infill)



Updated
11-28-18





Developments in the Loop 303 Area

- 2.1 Million SF Complete in 2020
- 1.1 Million SF in Expansions





Glendale Westgate Entertainment Area

- Shopping
- Dining
- Movie Theater
- Hotels
- Offices
- Home of the AZ Cardinals and Coyotes
- Events/Concerts throughout the year





Glendale Westgate Entertainment Area

- Crystal Lagoon
- PopStroke Entertainment Mini Golf
 - Two 18-hole synthetic turf putting courses, outdoor dining facilities with full menu, a playground and outdoor games

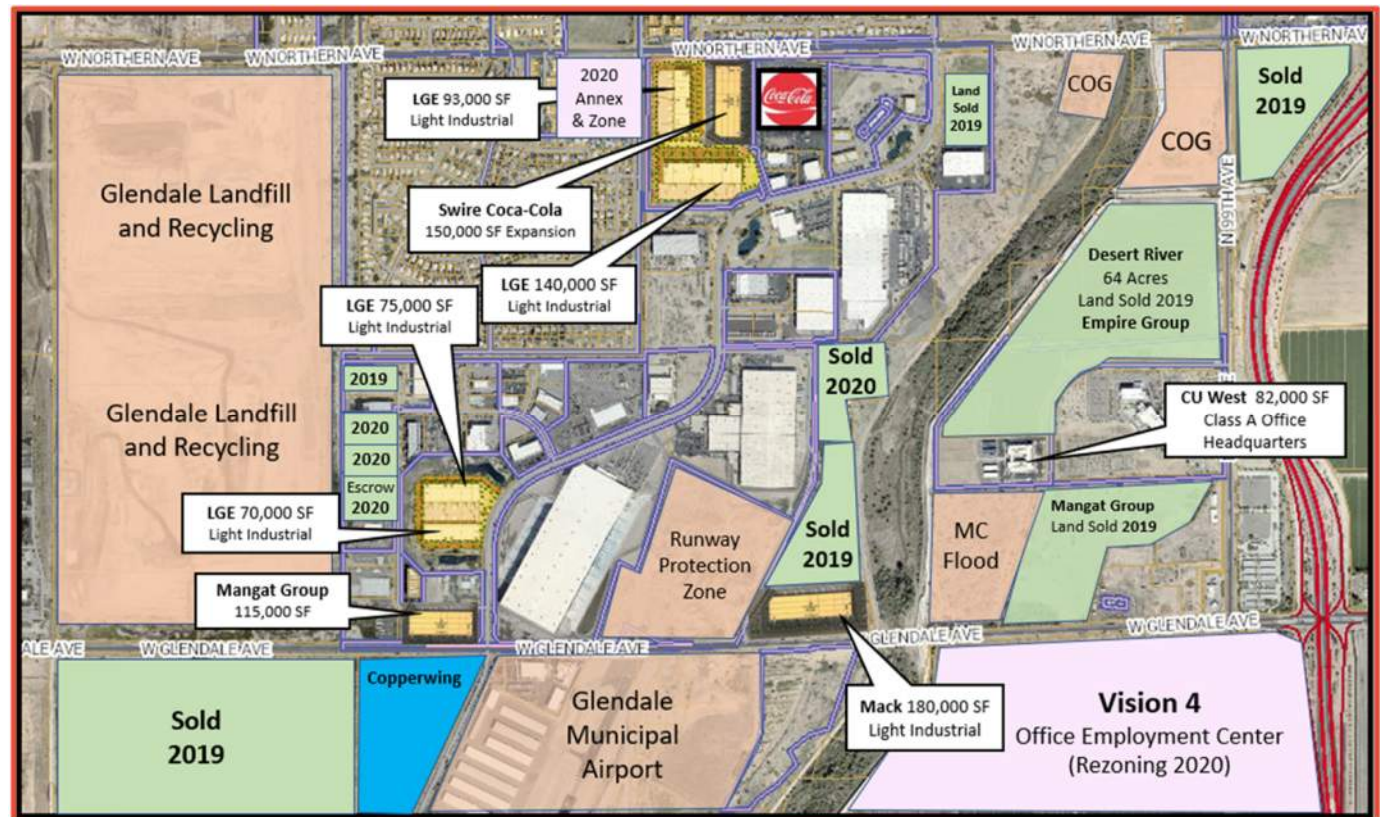


- New multi-family housing



Glendale Airpark Area

- Airport Eastside Development Plan





Developments

- Residential developments
 - 30 subdivisions with approximately 3500 residential lots
 - New roads the city will have to maintain



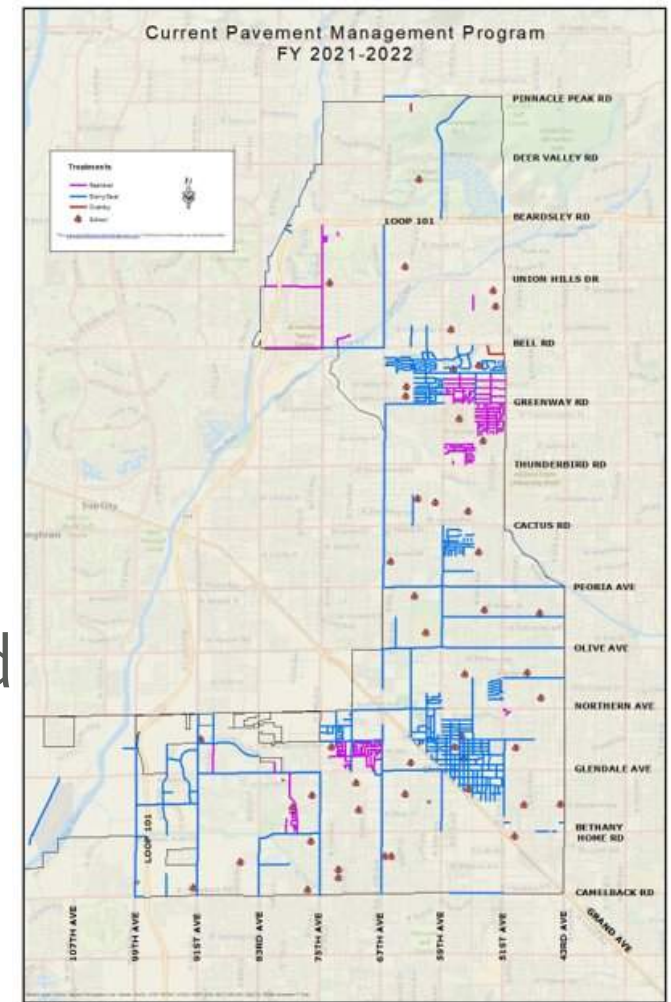
Infrastructure





Pavement Management Program

- A concentrated effort to improve the pavement condition/life of our streets
- 748 miles of streets
- Many treatment types
- Over 560 miles completed as of 6/30/2021
- 130 miles to be treated in 2021-2022



Arterial Reconstruction Program

Fiscal Year





Arterial Reconstruction Program

Proposed Arterial Section for Reconstruction	Avg PCI (2019)	AADT's (2020)	Council District	Construction	Intersection(s)	Status	Additional Notes	SCORE	Overall Rank
67TH AVE - DEER VALLEY RD TO PINNACLE PEAK RD	39	30,700	CHOLLA	FY23-24	DEER VALLEY/PINNACLE PEAK	NOT STARTED		16	1
CAMELBACK RD - 67TH AVE TO 75TH AVE	39	29,800	YUCCA	FY23-24	75TH AVE	NOT STARTED		20	3
CAMELBACK RD - 75TH AVE TO 83RD AVE	38	27,900	YUCCA	FY23-24	--	NOT STARTED		22	5
67TH AVE - GREENWAY RD TO BELL RD	35	26,200	SAHUARO	FY24-25	GREENWAY RD	SHOVEL READY	Multiple water items	20	2
BETHANY HOME RD - 59TH AVE TO 67TH AVE	26	24,700	OCOTILLO	FY24-25	67TH AVE	NOT STARTED	Storm drain unfunded	24	6
BETHANY HOME RD - 67TH AVE TO 75TH AVE	29	20,800	OCOTILLO/YUCCA	FY24-25	75TH AVE	NOT STARTED	Storm drain unfunded	27	8
CAMELBACK RD - 59TH AVE TO 67TH AVE	37	27,600	OCOTILLO	FY25-26	67TH AVE	NOT STARTED		22	4
BELL RD - 59TH AVE TO 67TH AVE	46	43,100	SAHUARO	FY25-26	67TH AVE	NOT STARTED		24	7
67TH AVE - PEORIA AVE TO OLIVE AVE	43	28,700	BARREL	FY25-26	OLIVE AVE	NOT STARTED		28	10
BETHANY HOME RD - 43RD TO 51ST AVE	36	25,000	CACTUS	FY26-27	--	ON HOLD	Storm drain, water, and sewer need to be completed prior to roadway work	28	9
83RD AVE - GLENDALE AVE TO BETHANY HOME RD	34	15,700	YUCCA	FY26-27	GLENDALE AVE	NOT STARTED		31	12
CACTUS RD - 59TH AVE TO 67TH AVE	41	25,800	SAHUARO/BARREL	FY26-27	67TH AVE	SHOVEL READY	Water valve replacement	31	14
NORTHERN AVE - 43RD TO 51ST AVE	49	34,600	CACTUS	FY27-28	51ST AVE	NOT STARTED		28	11
GLENDALE AVE - EL MIRAGE RD TO LITCHFIELD RD (2 MILES)	35	18,900	YUCCA	FY27-28	EL MIRAGE/LITCHFIELD	NOT STARTED		31	13
51ST AVE - OLIVE AVE TO PEORIA AVE	42	26,600	BARREL/SAHUARO	FY28-29	OLIVE AVE	SHOVEL READY	Water valve replacement	31	15
GLENDALE AVE - 43RD TO 51ST AVE	48	30,400	CACTUS	FY28-29	51ST AVE	NOT STARTED		31	16
THUNDERBIRD RD - 59TH AVE TO 67TH AVE	49	31,600	SAHUARO	FY28-29	67TH AVE	NOT STARTED		31	17
67TH AVE - DEER VALLEY RD TO BEARDSLEY RD	52	34,500	CHOLLA	FY29-30	--	NOT STARTED		32	18
51ST AVE - PEORIA AVE TO CACTUS RD	42	25,700	BARREL/SAHUARO	FY29-30	PEORIA AVE	SHOVEL READY	Water valve replacement	33	19
75TH AVE - DEER VALLEY ROAD TO BEARDSLEY RD	47	28,900	CHOLLA	FY29-30	DEER VALLEY RD	NOT STARTED		33	20
GLENDALE AVE - 67TH AVE TO 75TH AVE	45	27,900	OCOTILLO/YUCCA	FY30-31	67TH AVE	NOT STARTED		34	21
NORTHERN AVE - 51ST AVE TO 59TH AVE	51	29,900	BARREL/CACTUS/OCOTILLO	FY30-31	--	NOT STARTED		35	22
83RD AVE - GLENDALE AVE TO NORTHERN AVE	36	11,900	YUCCA	FY30-31	--	SHOVEL READY	Major priority for the Yucca District, water valve replacement, right of way acquisition required	36	23
59TH AVE - GLENDALE AVE TO NORTHERN AVE	40	24,500	OCOTILLO	FY31-32	NORTHERN AVE	NOT STARTED	Multiple water items	37	24
59TH AVE - UNION HILLS DR TO BEARDSLEY RD	44	25,600	CHOLLA	FY31-32	UNION HILLS DR	SHOVEL READY		37	25
75TH AVE - GLENDALE AVE TO NORTHERN AVE	38	15,600	YUCCA	FY31-32	--	SHOVEL READY	Major priority for the Yucca District, water valve replacement	38	26
59TH AVE - BETHANY HOME RD TO CAMELBACK RD	44	25,600	OCOTILLO/CACTUS	FY32-33	BETHANY HOME RD	NOT STARTED		40	27
59TH AVE - THUNDERBIRD RD TO CACTUS RD	55	28,900	SAHUARO	FY32-33	THUNDERBIRD RD	NOT STARTED		40	28
59TH AVE - OLIVE AVE TO NORTHERN AVE	46	24,900	BARREL	FY32-33	NORTHERN AVE	NOT STARTED		44	29



Arterial Reconstruction Program

- The Arterial Reconstruction Program (ARP) includes 101 miles of arterials in Glendale's overall 748 centerline miles of streets.
- The ARP identifies various street segments for reconstruction and related improvements based on pavement conditions.



Arterial Reconstruction Program

- The following arterial sections have been completed to date:
 - Camelback Rd: 43rd Ave to 51st Ave
 - Camelback Rd: 83rd Ave to 101L
 - Bell Rd: 51st Ave to 59th Ave
 - Cactus Rd: 51st Ave to 59th Ave
 - Glendale Ave: 99th Ave to El Mirage Rd



Arterial Reconstruction Program

- Glendale Ave from 91st Ave to 101L planed for late in FY 2022



Transportation Systems Management

- 10 Signals & ITS staff
- Budgets (Signals & ITS): \$2.13M
- Operate, maintain, and enhance the traffic management system assets
- 207 Signalized Intersections
- 104 miles of fiber optic cable (carries transportation and city business – PD/Fire, IT, Water, Library, etc.)



Transportation Systems Management

- 16 Dynamic Messaging Signs (DMS) & 41 Lane Control Signs (LCS)
- 159 Closed Circuit Television (CCTV) Cameras
- 54 Emergency Vehicle Pre-Emption Intersections
- 9 School Zones
- 1 RRFB (Rectangular Rapid Flashing Beacon)



Transportation Systems Management

- New projects:
 - Upgrading detection on Glendale Ave. & 59th Ave
 - Adaptive systems on Olive Avenue and Bell Road (recently completed)
 - FYA Phase III
 - Loop 101 and Maryland wrong way detection (working with ADOT)
 - CCTV TV upgrades at 166 Intersections
 - Adaptive signal project for the Westgate area – up to 21
 - Possible relocation of the TMC



Glendale Municipal Airport

- Strategic Location within 2 miles of the city's sports and entertainment district.
- Developed in 1986
- 86,332 Take-offs & Landings in FY 2020
- 477 based aircraft
- Runway Dimensions are 7,150' X 100'
- Air Traffic Control Tower



"ONE MILE OF ROADWAY CAN TAKE YOU ONE MILE; ONE MILE OF RUNWAY CAN TAKE YOU ANYWHERE IN THE WORLD."



Active Transportation

- Active Transportation Plan
 - Completed 2019 - first bicycle/pedestrian plan since 1991
 - Prioritized/ranked recommended projects
 - Ranked by mode
 - Top priorities
 - Sidewalk infill projects
 - Bicycle facilities including arterial bicycle lanes





Active Transportation

- Implementation

- Focused on top ATP priorities

- 15 funding awards to date since ATP

- MAG Design Assistance (100% MAG funded)

- Project design CMAQ (CMAQ - 94.7% federally funded)

- Construction funding (CMAQ/TA - 94.7% federally funded)

- **\$12M total project cumulative budget**

- Leveraged by only **\$700K** local funds



Large Regional Projects





Projects

- Loop 101: I-17 to 75th Avenue
 - Widening of the mainline
- 75th Avenue TI
- 59th Avenue T.I. (Study Phase)
- 67th Avenue TI (Study Phase)
- Northern Parkway (Participating in funding)





Coming Soon





Superbowl in 2023

- Glendale will be hosting the Superbowl in 2023
- Preparations are underway





NCAA Final Four

- Final Four will return to Glendale in 2024





Crystal Lagoon Island Resort

- Slated for opening in late 2022
 - Hotel, Lagoon (11-acre Public Access Lagoon), 7 islands, each with their own theme, shopping, amusement rides (Mattel themed adventure park)
 - Aerobar (130-feet tall).

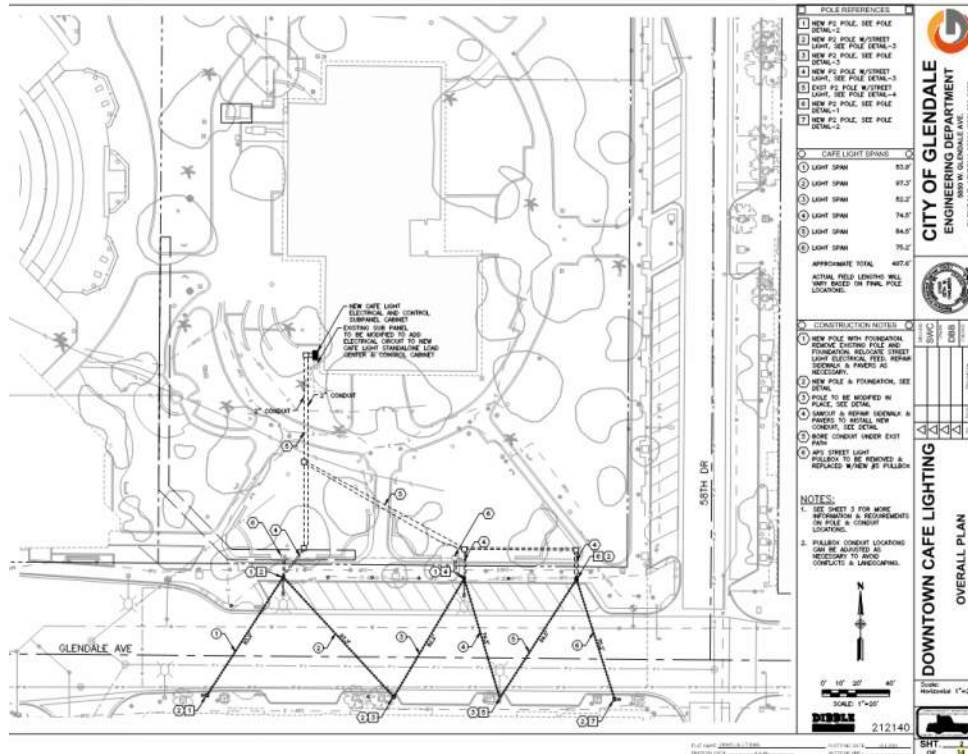


Crystal Lagoon Island Resort





Café Lighting in Downtown



- Lights on Glendale Ave. by Glendale City Hall (58th Dr. to 58th Ave.)
- Work starts in Jan. 2022





Funding





Funding

- Transportation Sales Tax
 - Revenues are looking positive
 - Significant development activity generating plenty of construction sales tax
- Highway User Revenue Fund
 - Revenues are looking positive
- General Obligation Bond
 - Attempted authorization in 2020
 - Potential new attempt in 2022
 - Shovel ready projects



Funding

- Federal Infrastructure Bill

- Additional funding for existing funding programs over 5 years
- Some new programs to establish funding
- Glendale will compete for funding



Challenges





Challenges

- New Developments = New infrastructure
 - Need funding to maintain new roadways that will be added to the current network
- Work force availability
 - Staffing vacancies at the City
 - Consultant/contractor staffing issue
 - Technical resources
 - Staff retention
 - Inflation/pricing pressure (projects coming over the estimated price)



Challenges

- Concern about gas prices impacting revenues
- G.O. Bond authorization ends in 2022



In closing





It is Happening in Glendale

Whether it's new commercial development or residential growth Glendale is at the center of it all!



Square Feet
Under
Construction or in
Review

14M



New Single &
Multifamily
Residential
Under
Development

5,500



Commercial
Projects in
Development

100+



Questions

