

**CITY OF GOODYEAR
CITY COUNCIL ACTION FORM**

SUBJECT: Update on fire triggers and thresholds, fire service in high growth areas of Goodyear, and available resources for fire service.

STAFF PRESENTER(S): Fire Chief, Paul Luizzi and Finance Director, Larry Lange

OTHER PRESENTER(S): N/A

RECOMMENDATION:

Receive an update on fire triggers and thresholds, fire service currently being provided in high growth areas of Goodyear, and available resources for new fire station construction. (Fire Chief, Paul Luizzi and Finance Director, Larry Lange)

PURPOSE:

The work session provides Council with information on the current fire triggers and thresholds, how certain high growth areas of the City compare to the 2014 Triggers and Thresholds for new fire station construction, the status of available funding including the Capital Improvement Plan (CIP) funding for fire stations/apparatus, recommended next steps, and an opportunity for Council discussion.

BACKGROUND AND COMMUNITY BENEFIT:

History and Development of Fire Station Triggers and Thresholds

In 2014 Fire Chief Paul Luizzi presented a change at a council work session for new fire station triggers and thresholds. Previously the Sonoran Valley Public Safety Master Plan (2008) portrayed a much faster growth to the City. The new triggers and thresholds took into account the slower growth of the City and set more realistic response time goals, new development being a certain distance from a current station, and calls for service.

Fire Station Triggers and Thresholds

Previous fire construction timelines, based upon the Sonoran Valley Public Safety Master Plan (2008), would require the following:

- 1) If a new development is 3-4 miles from a current fire station and/or 20-25% of the response time is greater than 8 minutes; a frontier station would be triggered.
- 2) If more than 50% of the development is 5 miles or more from the current station and/or 30% of the response times exceed 10 minutes; a new permanent station is necessary.

In 2014, a new standard was presented, during a work session for new fire station construction. The station Triggers and Thresholds (2014) plan now requires the following:

- 1) If response time is 8 minutes or more 30% of the time, AND

- 2) The new development is 6 miles away from the closest station, AND
- 3) 500 calls for service annually in the area.

Fire Service Delivery in Estrella

In the mid-1990s the Goodyear Fire Department began providing fire and emergency services to Estrella and served the community from a temporary awning that was placed on the Fire Station 182 site, with a single fire engine manned by volunteers. To better meet demands for service in the area, a permanent Fire Station 182, was constructed in 2002-2003.

In calendar year 2015, the average response time to Montecito and CantaMia was 08:19 when they respond from Fire Station 182. Fifty-eight percent of the calls to this area have a response time greater than 8 minutes.

The current distance from Fire Station 182 to the area is between 4.0 and 5.1 miles.

Goodyear Fire Department has responded to 123 calls for service during calendar year 2015, south of the Ray Road alignment.

Buckeye Valley Fire District Engine 326 (located at Rainbow Valley Road and Arlington Road) has responded to 24 calls, south of the Ray Road alignment, with an average response time of 09:58. This station is located approximately 3.3 miles away from the intersection of Willis Road and Rainbow Valley Road; 5.3 to 5.6 miles away from the entrances of CantaMia and Montecito villages.

Based on the 2014 Triggers and Thresholds, the area south of the Ray Road alignment only meets Trigger #1 (Response time is 8 minutes or more 30% of the time).

Additionally, Engine 182 responded to 756 calls in 2015 with an average response time of 06:42. Of these calls 105 were outside of Estrella.

Between calendar year 2014 and 2015 we saw growth in our requests for service by 34%.

Based on the projected growth, calls for fire service are expected to increase by 24% annually for the next five years, even though population growth is projected to increase by 7.6% over the same time period.

This calculation is based on our growth trends from the last five years south of the Ray Road alignment. (See Table Below):

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|--------------------------|------|------|------|------|------|------------|------------|------------|------------|------------|
| Fire | 8 | 1 | 0 | 5 | 4 | | | | | |
| EMS | 31 | 40 | 44 | 63 | 77 | | | | | |
| False Alarm | 8 | 9 | 3 | 11 | 15 | | | | | |
| Good Intent | 7 | 4 | 9 | 10 | 29 | | | | | |
| Hazardous Conditions | 1 | 2 | 4 | 2 | 3 | | | | | |
| Service Calls | 14 | 14 | 14 | 19 | 19 | | | | | |
| Total | 69 | 70 | 74 | 110 | 147 | 183 | 224 | 274 | 335 | 411 |
| Increase from Prior Year | 33% | 1% | 6% | 49% | 34% | 24% | 24% | 24% | 24% | 24% |

Fire Service Delivery in West Goodyear

The City is experiencing increased residential growth in West Goodyear (West of Cotton Lane, East of Perryville Road, South of the Interstate-10, and north of Broadway Road).

The average response time to West Goodyear is 06:53 with Engine 184 primarily handling these incidents. Thirteen percent of those calls have a response time greater than 8 minutes.

The current distance from Fire Station 184 to West Goodyear is between 2.0 and 4.9 miles.

Fire Departments have responded to 386 calls for service in West Goodyear during calendar year 2015. Seventy-eight percent of those calls are answered by Engine 184.

Based on the 2014 Triggers and Thresholds, West Goodyear did not meet any triggers.

Between calendar year 2014 and 2015 we saw growth in our requests for service by 43%.

Based on the projected growth, calls for fire service are expected to increase by 14% annually for the next five years, even though population growth is projected to increase by 7.6% over the same time period.

This calculation is based on our growth trends from the last five years in West Goodyear.
(See Table Below):

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|--------------------------|------|------|------|------|------|------|------|------|------|------|
| Fire | 18 | 19 | 16 | 22 | 13 | | | | | |
| EMS | 195 | 179 | 223 | 187 | 313 | | | | | |
| False Alarm | 14 | 17 | 31 | 16 | 14 | | | | | |
| Good Intent | 15 | 20 | 21 | 29 | 26 | | | | | |
| Hazardous Conditions | 3 | 4 | 8 | 6 | 7 | | | | | |
| Service Calls | 26 | 10 | 18 | 9 | 13 | | | | | |
| Total | 271 | 249 | 317 | 269 | 386 | 440 | 480 | 523 | 570 | 621 |
| Increase from Prior Year | 23% | -8% | 27% | -15% | 43% | 14% | 14% | 14% | 14% | 14% |

Goodyear Fire Response in Calendar Year 2015

The table below depicts number of calls and call volumes at all Goodyear Fire Stations:

| Station | Total Number of Calls | Average Calls Per Day | Average Response |
|---|------------------------------|------------------------------|-------------------------|
| FS 181 (Yuma/Camino Oro) | 2,475 | 6.78 | 05:28 |
| FS 182 (Estrella Mtn. Ranch) | 756 | 2.07 | 06:42 |
| FS 183 (Goodyear Community Park) | 2,025 | 5.55 | 05:50 |
| FS 184 (Yuma/Village) | 2,026 | 5.55 | 05:53 |
| FS 185 (PebbleCreek) | 1,503 | 4.17 | 06:07 |
| FS 187 (Mobile -99 th Ave and AZ-238) | 45 | 0.12 | 09:39 |

Findings and Next Steps

No one area of the City meets all three of the 2014 Triggers and Thresholds requirements for new fire station construction. Staff recommends conducting a City-wide new fire station location study and continuing to monitor Estrella (south of the Ray Road alignment), West Goodyear, and all other growth areas of the City until additional thresholds are met.

PREVIOUS ACTIONS AND DISCUSSION:

Council has approved Development and Fire Services Agreement (COAC 06-2877) (MCR #2006-1731018) (May 22, 2006)
Council received triggers and thresholds for development of new fire stations (COAC 14-5168) (February 24, 2014)
Council raised the question of Fire Service in Estrella (south of the Ray Road alignment) (November 9, 2015)
Council work session to receive update on the history and current status of development agreements related to fire service in Estrella (January 25, 2016)

FISCAL ANALYSIS:

Cost of Fire Service Options

The table below depicts some options available to the City when it is decided to construct a station. The table below does not include on-going annual Operations and Maintenance, nor does the table depict which funds are Development Impact Fee Eligible (by zone):

| Station Type | Apparatus + FFE | Total One-Time Costs | On-Going Personnel Costs | On-Going O+M Costs |
|---|-------------------------------------|-----------------------------|---------------------------------|---------------------------|
| \$4,600,000 (<i>Permanent Command Station</i>) | \$750,000 (<i>Engine</i>) | \$5,350,000 | \$2,200,000 (4) | \$232,000 |
| \$4,600,000 (<i>Permanent Command Station</i>) | \$250,000 (<i>Brush Truck</i>) | \$4,850,000 | \$700,000 (2) | \$232,000 |
| \$4,600,000 (<i>Permanent Station</i>) | \$750,000 (<i>Engine</i>) | \$5,350,000 | \$1,800,000 (4) | \$232,000 |
| \$4,600,000 (<i>Permanent Station</i>) | \$250,000 (<i>Engine</i>) | \$4,850,000 | \$700,000 (2) | \$232,000 |
| \$940,000 (<i>Temporary Station</i>) | \$750,000 (<i>Engine</i>) | \$1,690,000 | \$1,800,000 (4) | \$85,000 |
| \$940,000 (<i>Temporary Station</i>) | \$250,000 (<i>Brush Truck</i>) | \$1,190,000 | \$700,000 (2) | \$85,000 |

Current CIP Funding

Based on the most recently adopted Capital Improvement Plan (CIP) FY16 - FY25 schedule fire stations and apparatus are programmed for funding between FY22 - FY24 (See Table Below):

| Project | FY22 | FY23 | FY24 | FY25 |
|--|-------------|-------------|-------------|-------------|
| Fire Station Harrison Road and Citrus Street | \$4,020,000 | | | |
| Fire Station Willis Road and Rainbow Valley Road | \$3,000,000 | \$1,020,000 | | |
| Fire Apparatus | | \$820,500 | \$820,500 | |

Sources of funding will be discussed during the work session.

ATTACHMENTS:

- Map of Estrella villages (Map)
- Drive time projections from future Willis Rd. Fire Station 186 (Map)
- Incident Response – Harrison/Citrus 2015 (Map)
- Fire Station Triggers and Thresholds (Presentation) (COAC 14-5168) (February 24, 2014)
- FY16-25 10 year CIP (Document)