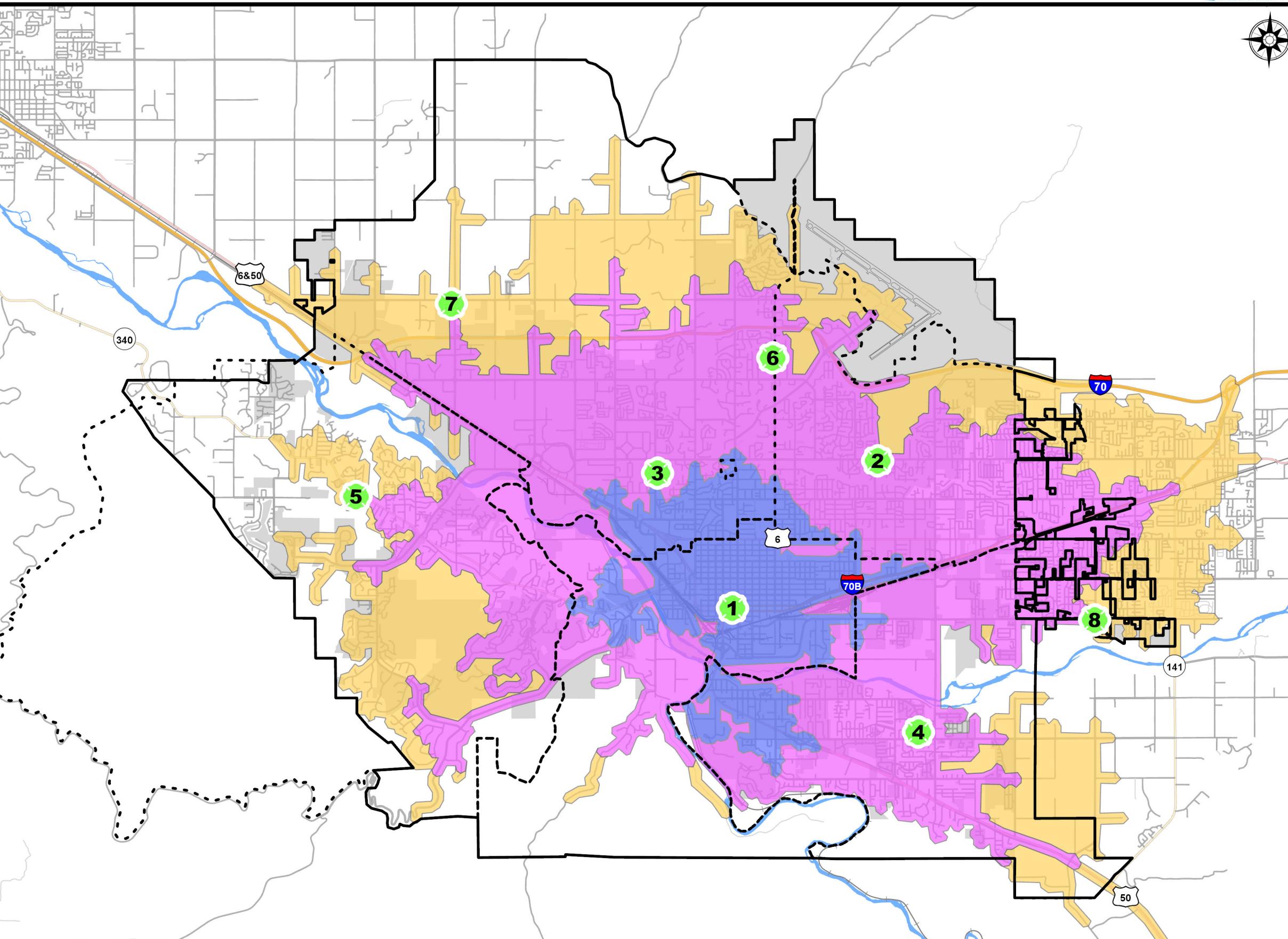


GJFD DRIVE TIME ANALYSIS

CITY OF
Grand Junction
COLORADO
geographic information systems



- City Limits
- Fire District
- Station Boundaries
- Fire Stations

- 4 Minute Drive Time Coverage
- 8 Minute Drive Time Coverage
- 10 Minute Drive Time Coverage

DRAWN BY: dylan DATE: 5/2/2019

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Supplemental City Information

GJFD Method/Description:

Stations 1-5 are existing locations, and stations 6-8 are proposed locations. The purpose of the map is to show area covered from Station 1 within four, eight, and ten minute response times.

GIS Methodology:

The drive time polygons were created using ESRI's Network Analyst Extension in ArcGIS Pro. Stations 1-8 were used to create a theoretical area that can be reached within a given amount of time along the road network. The analysis takes into account speed limits, one way streets, allows for u-turns, but does not account for stop signs or traffic lights as it is assumed the responding apparatus does not stop.

Community Impact Stats:

The number of structures was calculated by first selecting address points within the area of interest, then selecting parcels that contained those selected address points. Those parcels were then selected as either residential or commercial based on the property type field (PROTYPE). Finally, the number of structures was obtained by summing the number of buildings field (TOTNOBLDGS). These numbers should be treated as estimates, and are only as good as the underlying parcel data which is maintained by Mesa County. The full procedure can be found here: G:\GIS\DEPARTMENT\FIRE_DEPT\DRIVE TIME_corrected streets\2019\GIS_Procedure.txt

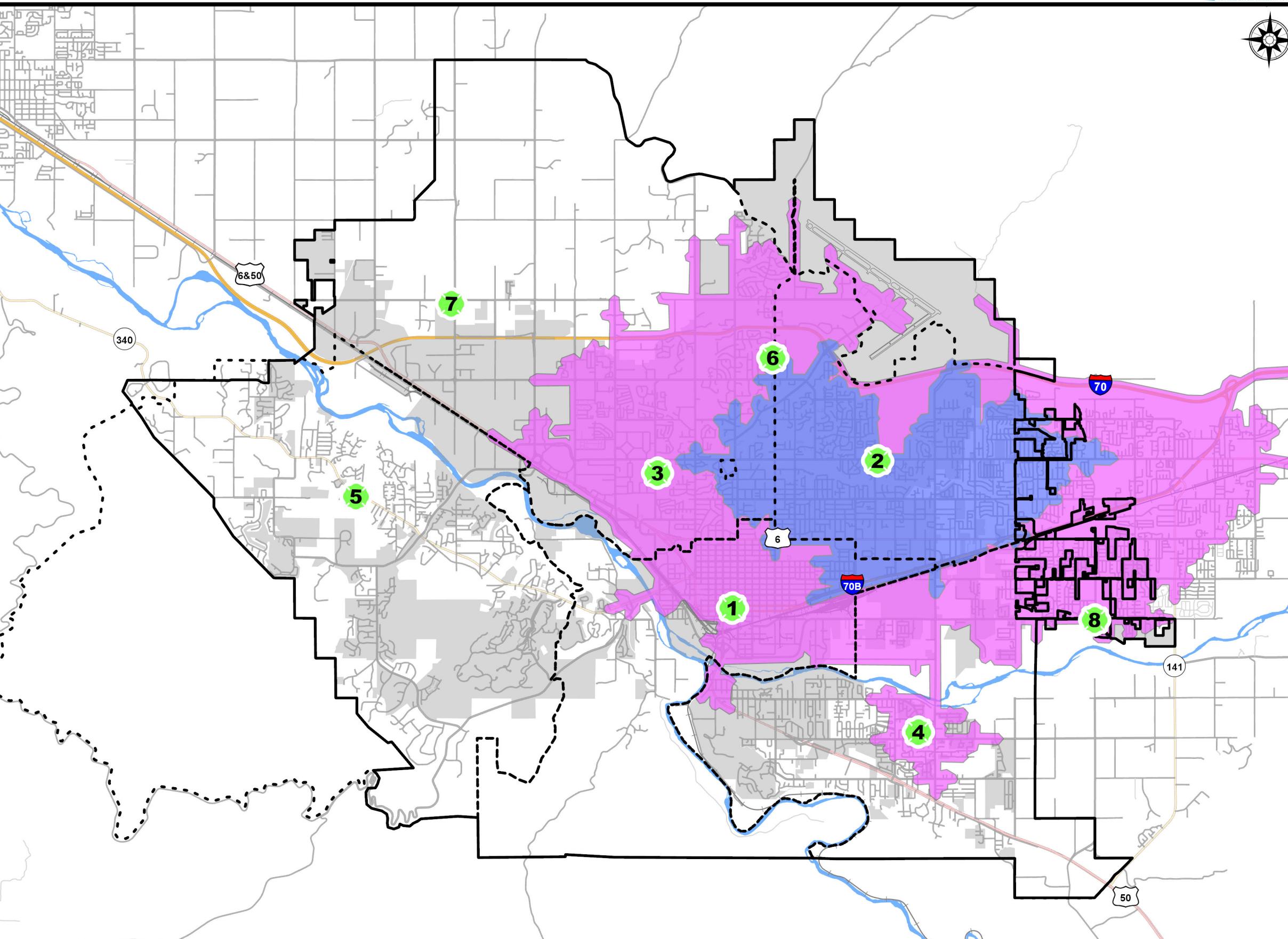
4 Minute Residential Structures Covered: 5,538
4 Minute Commercial Structures Covered: 1,772

8 Minute Residential Structures Covered: 30,444
8 Minute Commercial Structures Covered: 3,497

10 Minute Residential Structures Covered: 40,779
10 Minute Commercial Structures Covered: 4,079

GJFD DRIVE TIME ANALYSIS

CITY OF
Grand Junction
COLORADO
geographic information systems



- City Limits
- Fire District
- Station Boundaries
- Fire Stations

- 4 Minute Drive Time Coverage
- 8 Minute Drive Time Coverage

DRAWN BY: dylan DATE: 5/2/2019

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Supplemental City Information

GJFD Method/Description:

Stations 1-5 are existing locations, and stations 6-8 are proposed locations. The purpose of the map is to show area covered from Station 2 within four and eight minute response times.

GIS Methodology:

The drive time polygons were created using ESRI's Network Analyst Extension in ArcGIS Pro. Stations 1-8 were used to create a theoretical area that can be reached within a given amount of time along the road network. The analysis takes into account speed limits, one way streets, allows for u-turns, but does not account for stop signs or traffic lights as it is assumed the responding apparatus does not stop.

Community Impact Stats:

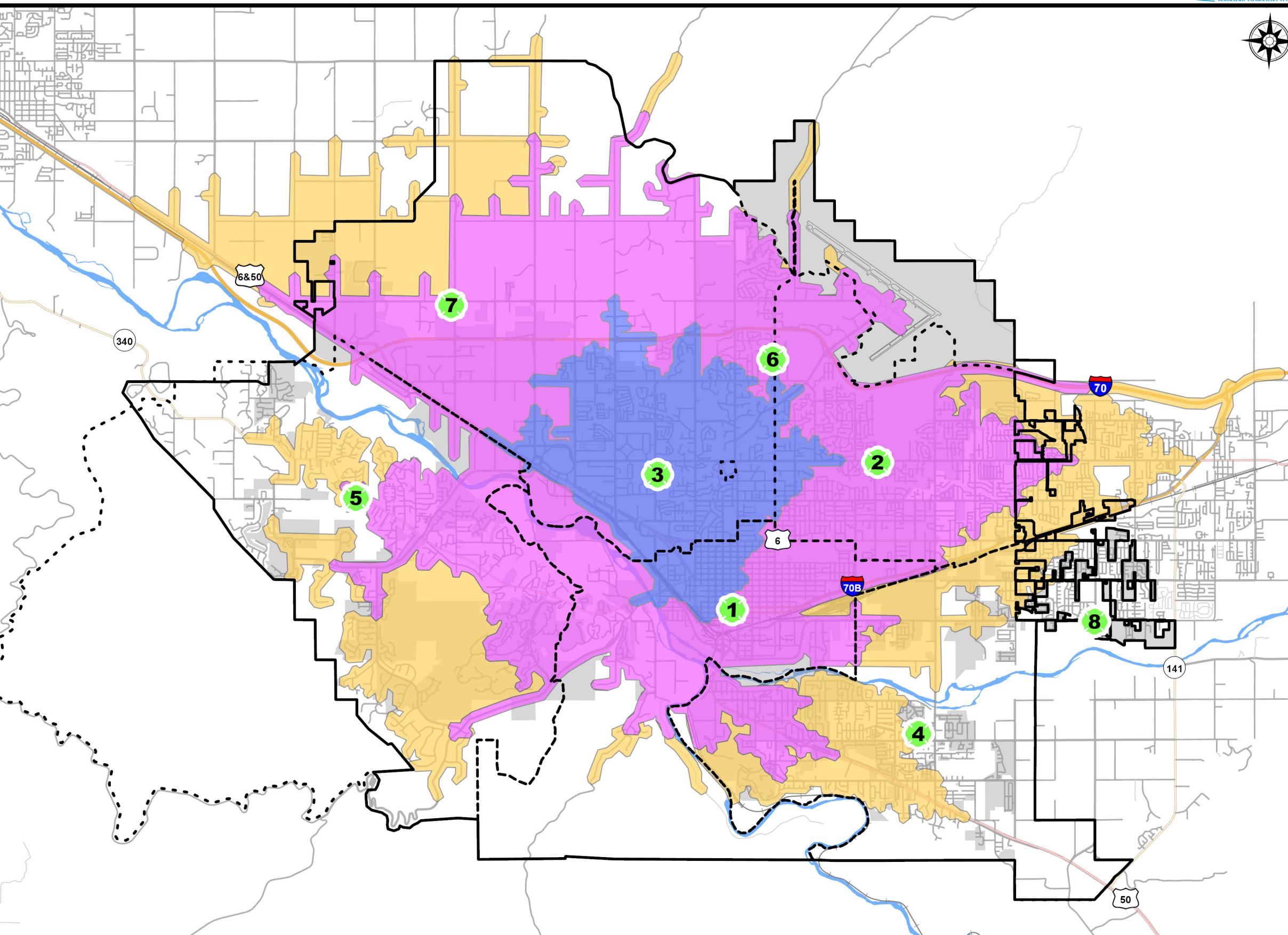
The number of structures was calculated by first selecting address points within the area of interest, then selecting parcels that contained those selected address points. Those parcels were then selected as either residential or commercial based on the property type field (PROTYPE). Finally, the number of structures was obtained by summing the number of buildings field (TOTNOBLDGS). These numbers should be treated as estimates, and are only as good as the underlying parcel data which is maintained by Mesa County. The full procedure can be found here: G:\GIS\DEPARTMENT\FIRE_DEPT\DRIVE TIME_corrected streets\2019\GIS_Procedure.txt

4 Minute Residential Structures Covered: 11,827
4 Minute Commercial Structures Covered: 965

8 Minute Residential Structures Covered: 30,418
8 Minute Commercial Structures Covered: 3,371

GJFD DRIVE TIME ANALYSIS

CITY OF
Grand Junction
COLORADO
geographic information systems



- City Limits
- Fire District
- Station Boundaries
- Fire Stations

- 4 Minute Drive Time Coverage
- 8 Minute Drive Time Coverage
- 10 Minute Drive Time Coverage

DRAWN BY: dylan DATE: 5/2/2019

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Supplemental City Information

GJFD Method/Description:

Stations 1-5 are existing locations, and stations 6-8 are proposed locations. The purpose of the map is to show area covered from Station 3 within four, eight, and ten minute response times.

GIS Methodology:

The drive time polygons were created using ESRI's Network Analyst Extension in ArcGIS Pro. Stations 1-8 were used to create a theoretical area that can be reached within a given amount of time along the road network. The analysis takes into account speed limits, one way streets, allows for u-turns, but does not account for stop signs or traffic lights as it is assumed the responding apparatus does not stop.

Community Impact Stats:

The number of structures was calculated by first selecting address points within the area of interest, then selecting parcels that contained those selected address points. Those parcels were then selected as either residential or commercial based on the property type field (PROTYPE). Finally, the number of structures was obtained by summing the number of buildings field (TOTNOBLDGS). These numbers should be treated as estimates, and are only as good as the underlying parcel data which is maintained by Mesa County. The full procedure can be found here: G:\GIS\DEPARTMENT\FIRE_DEPT\DRIVE TIME_corrected streets\2019\GIS_Procedure.txt

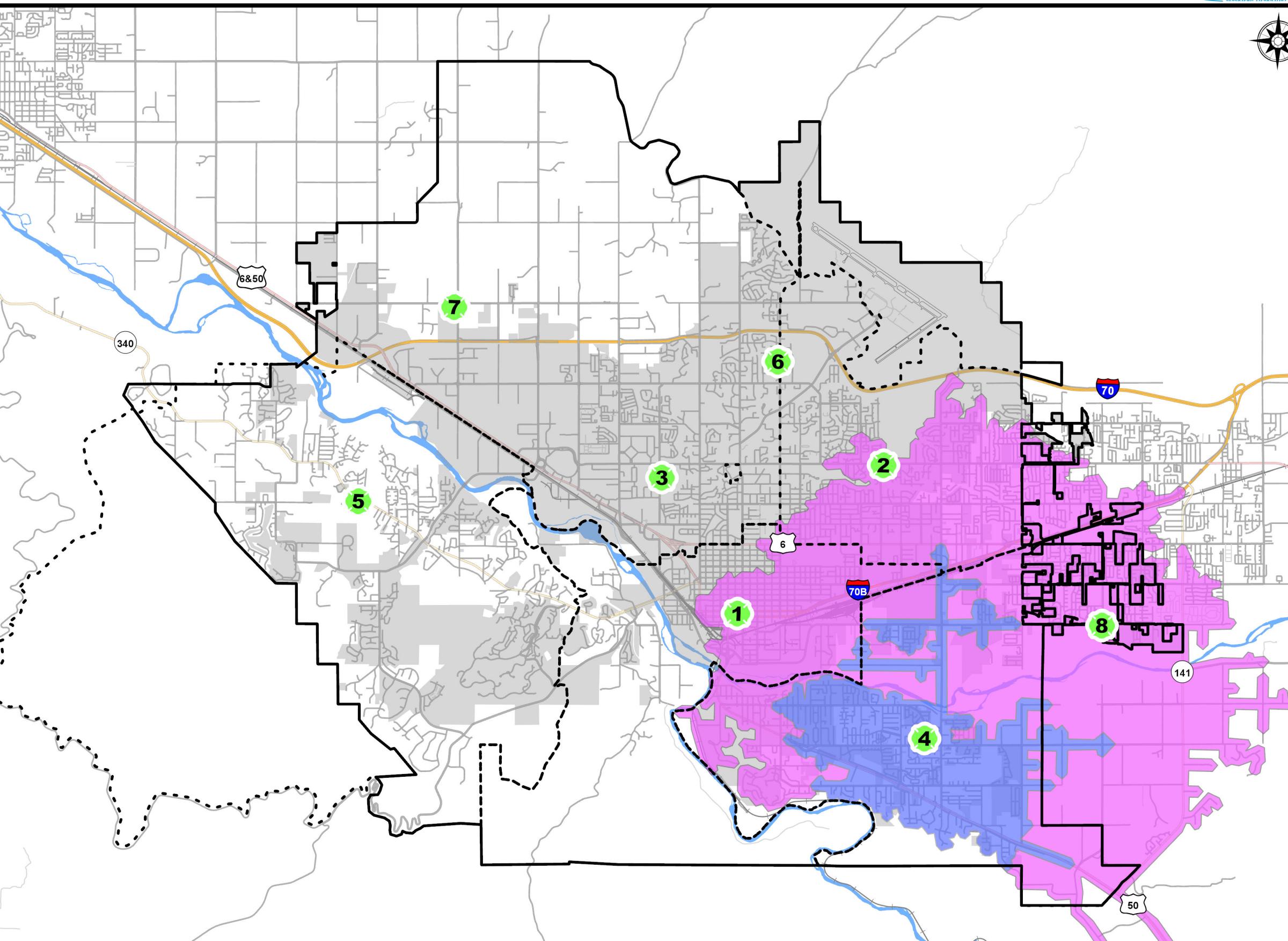
4 Minute Residential Structures Covered: 6,792
4 Minute Commercial Structures Covered: 1,661

8 Minute Residential Structures Covered: 23,420
8 Minute Commercial Structures Covered: 3,530

10 Minute Residential Structures Covered: 33,241
10 Minute Commercial Structures Covered: 3,820

GJFD DRIVE TIME ANALYSIS

CITY OF
Grand Junction
COLORADO
geographic information systems



- City Limits
- Fire District
- Station Boundaries
- Fire Stations

- 4 Minute Drive Time Coverage
- 8 Minute Drive Time Coverage

DRAWN BY: dylan DATE: 5/2/2019

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Supplemental City Information

GJFD Method/Description:

Stations 1-5 are existing locations, and stations 6-8 are proposed locations. The purpose of the map is to show area covered from Station 4 within four and eight minute response times.

GIS Methodology:

The drive time polygons were created using ESRI's Network Analyst Extension in ArcGIS Pro. Stations 1-8 were used to create a theoretical area that can be reached within a given amount of time along the road network. The analysis takes into account speed limits, one way streets, allows for u-turns, but does not account for stop signs or traffic lights as it is assumed the responding apparatus does not stop.

Community Impact Stats:

The number of structures was calculated by first selecting address points within the area of interest, then selecting parcels that contained those selected address points. Those parcels were then selected as either residential or commercial based on the property type field (PROPTYPE). Finally, the number of structures was obtained by summing the number of buildings field (TOTNOBLDGS). These numbers should be treated as estimates, and are only as good as the underlying parcel data which is maintained by Mesa County. The full procedure can be found here: G:\GIS\DEPARTMENT\FIRE_DEPT\DRIVE TIME_corrected streets\2019\GIS_Procedure.txt

4 Minute Residential Structures Covered: 5,119
4 Minute Commercial Structures Covered: 186

8 Minute Residential Structures Covered: 21,620
8 Minute Commercial Structures Covered: 1,804

GJFD DRIVE TIME ANALYSIS

CITY OF
Grand Junction
COLORADO
geographic information systems



Supplemental City Information

GJFD Method/Description:

Stations 1-5 are existing locations, and stations 6-8 are proposed locations. The purpose of the map is to show area covered from Station 5 within four and eight minute response times.

GIS Methodology:

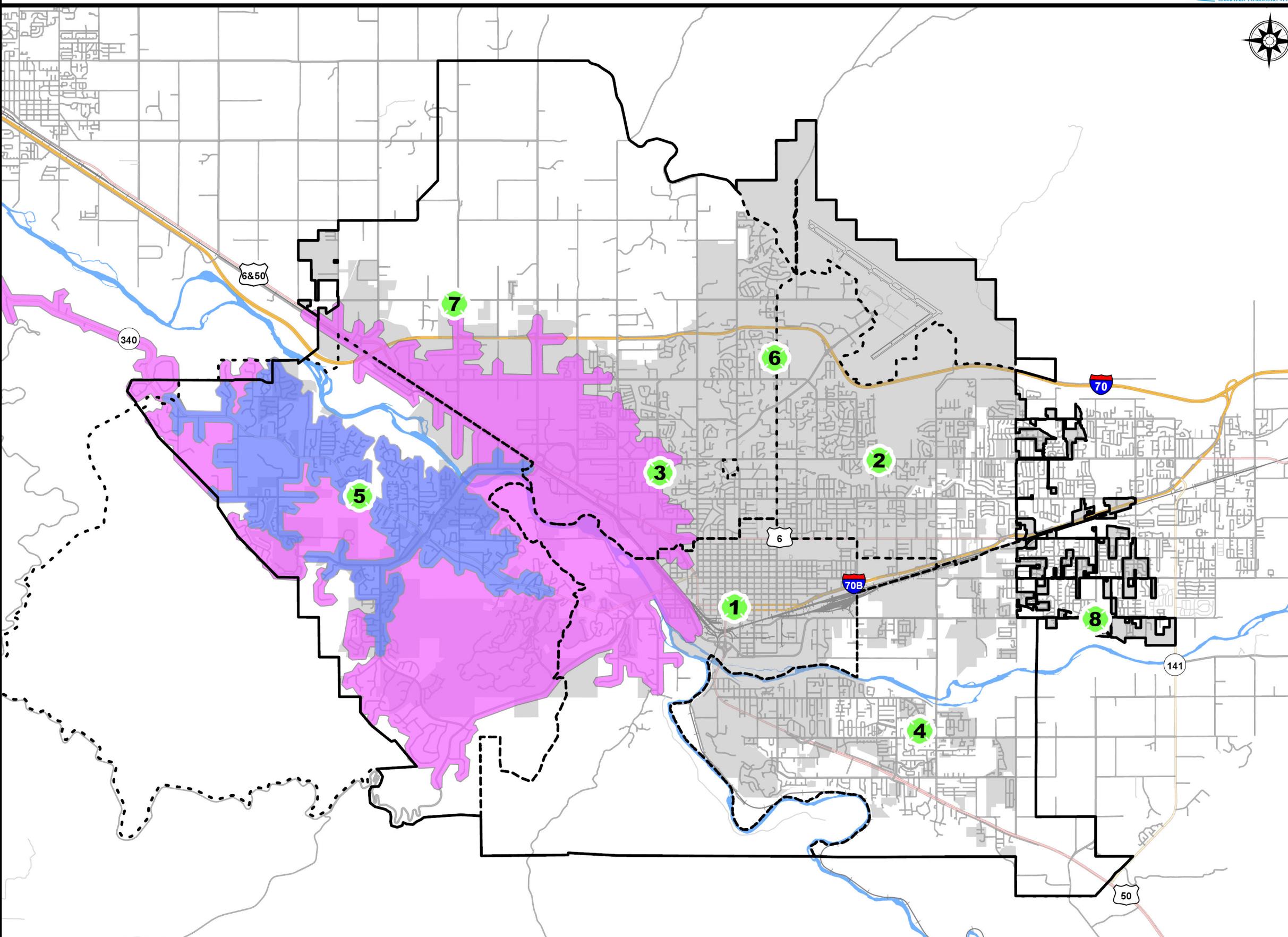
The drive time polygons were created using ESRI's Network Analyst Extension in ArcGIS Pro. Stations 1-8 were used to create a theoretical area that can be reached within a given amount of time along the road network. The analysis takes into account speed limits, one way streets, allows for u-turns, but does not account for stop signs or traffic lights as it is assumed the responding apparatus does not stop.

Community Impact Stats:

The number of structures was calculated by first selecting address points within the area of interest, then selecting parcels that contained those selected address points. Those parcels were then selected as either residential or commercial based on the property type field (PROPTYPE). Finally, the number of structures was obtained by summing the number of buildings field (TOTNOBLDGS). These numbers should be treated as estimates, and are only as good as the underlying parcel data which is maintained by Mesa County. The full procedure can be found here: G:\GIS\DEPARTMENT\FIRE_DEPT\DRIVE TIME_corrected streets\2019\GIS_Procedure.txt

4 Minute Residential Structures Covered: 3,617
4 Minute Commercial Structures Covered: 53

8 Minute Residential Structures Covered: 8,236
8 Minute Commercial Structures Covered: 1,131



City Limits Station Boundaries
 Fire District Fire Stations

4 Minute Drive Time Coverage
 8 Minute Drive Time Coverage

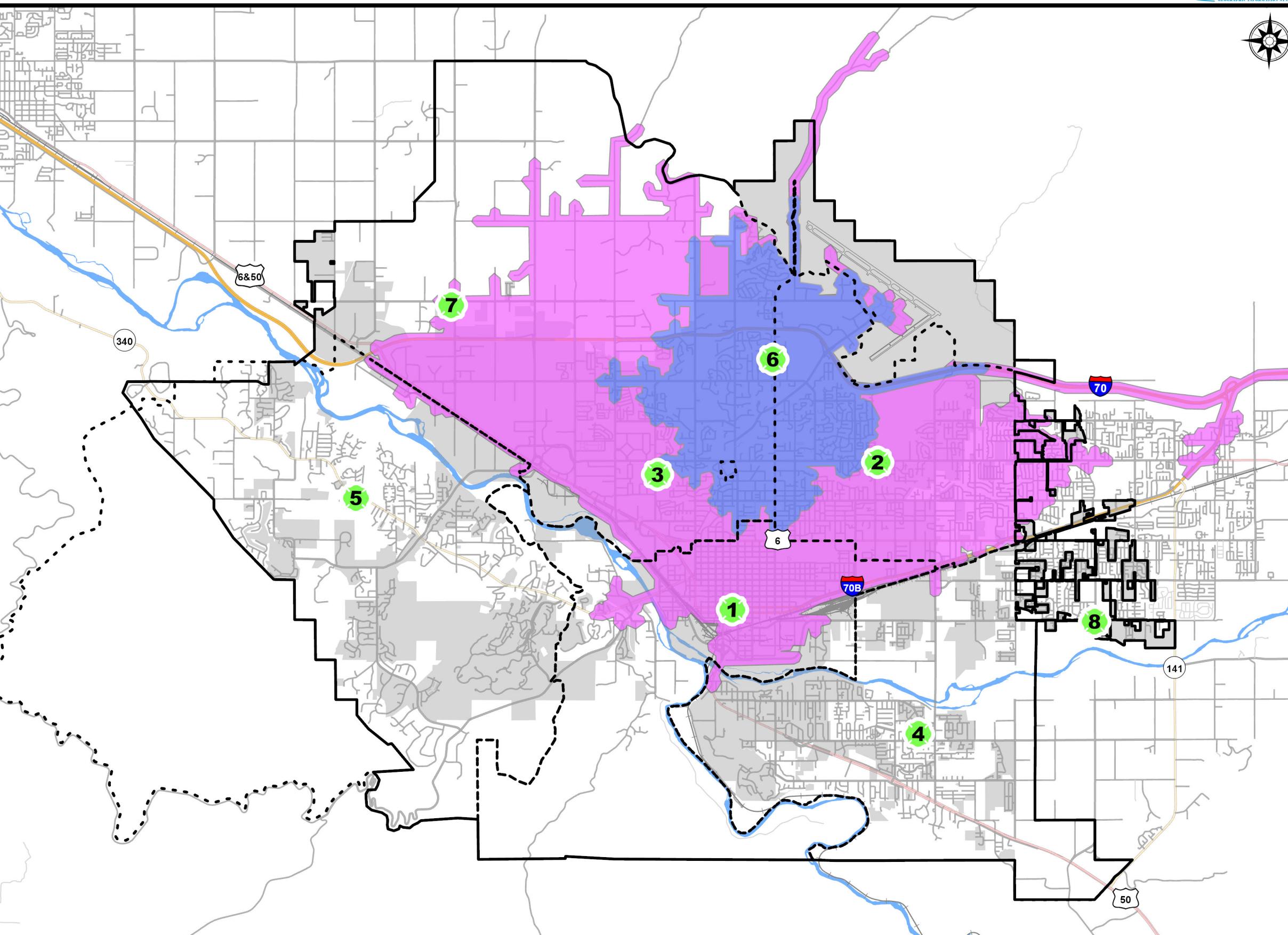
DRAWN BY: dylan DATE: 5/2/2019

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0 1.5 3 Miles

GJFD DRIVE TIME ANALYSIS

CITY OF
Grand Junction
COLORADO
geographic information systems



- City Limits
- Fire District
- Station Boundaries
- Fire Stations

- 4 Minute Drive Time Coverage
- 8 Minute Drive Time Coverage

DRAWN BY: dylan DATE: 5/2/2019

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Supplemental City Information

GJFD Method/Description:

Stations 1-5 are existing locations, and stations 6-8 are proposed locations. The purpose of the map is to show area covered from Station 6 within four and eight minute response times.

GIS Methodology:

The drive time polygons were created using ESRI's Network Analyst Extension in ArcGIS Pro. Stations 1-8 were used to create a theoretical area that can be reached within a given amount of time along the road network. The analysis takes into account speed limits, one way streets, allows for u-turns, but does not account for stop signs or traffic lights as it is assumed the responding apparatus does not stop.

Community Impact Stats:

The number of structures was calculated by first selecting address points within the area of interest, then selecting parcels that contained those selected address points. Those parcels were then selected as either residential or commercial based on the property type field (PROTYPE). Finally, the number of structures was obtained by summing the number of buildings field (TOTNOBLDGS). These numbers should be treated as estimates, and are only as good as the underlying parcel data which is maintained by Mesa County. The full procedure can be found here: G:\GIS\DEPARTMENT\FIRE_DEPT\DRIVE TIME_corrected streets\2019\GIS_Procedure.txt

4 Minute Residential Structures Covered: 6,364
4 Minute Commercial Structures Covered: 608

8 Minute Residential Structures Covered: 20,135
8 Minute Commercial Structures Covered: 3,223

GJFD DRIVE TIME ANALYSIS

CITY OF
Grand Junction
COLORADO
geographic information systems



Supplemental City Information

GJFD Method/Description:

Stations 1-5 are existing locations, and stations 6-8 are proposed locations. The purpose of the map is to show area covered from Station 7 within four and eight minute response times.

GIS Methodology:

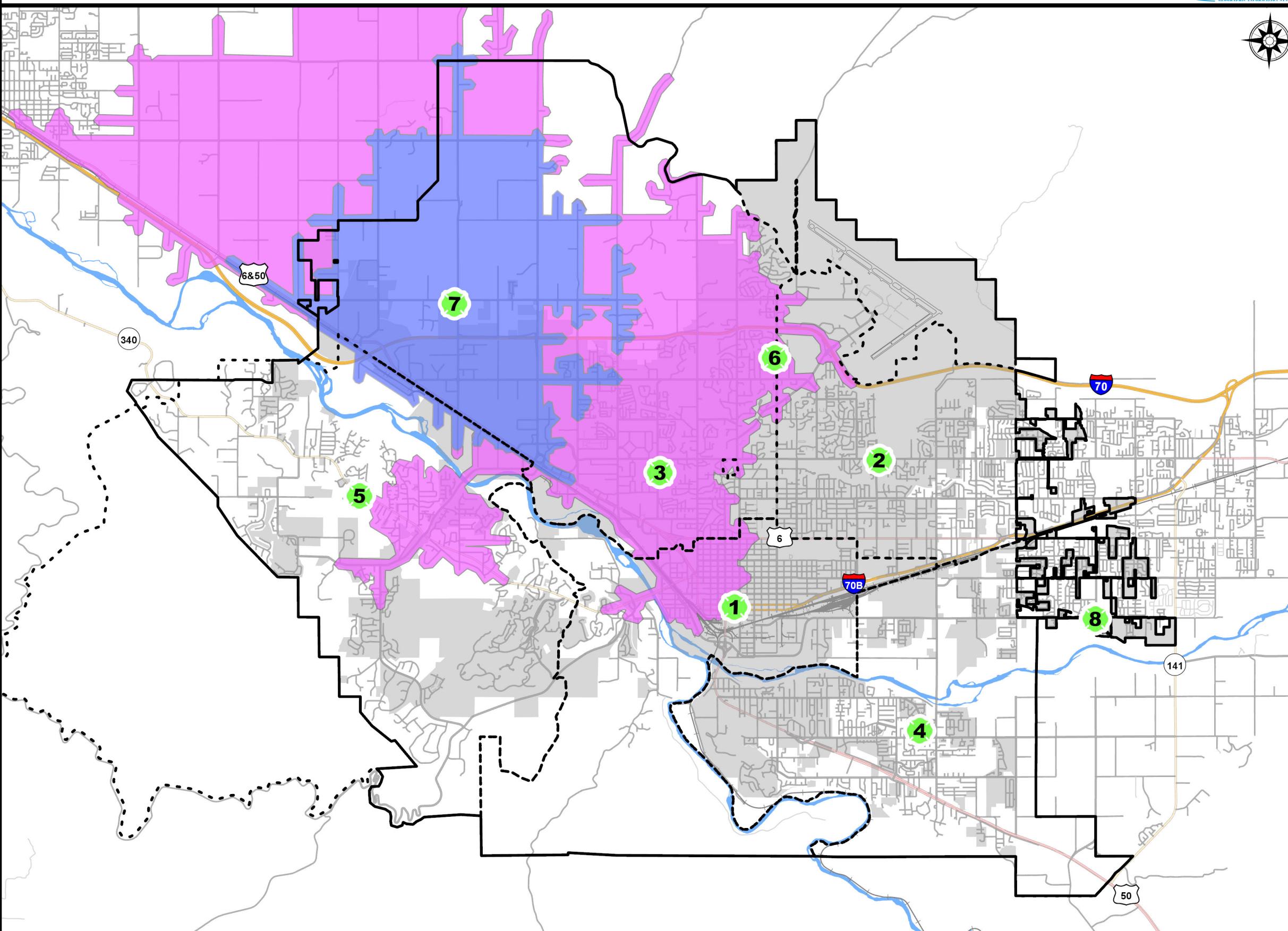
The drive time polygons were created using ESRI's Network Analyst Extension in ArcGIS Pro. Stations 1-8 were used to create a theoretical area that can be reached within a given amount of time along the road network. The analysis takes into account speed limits, one way streets, allows for u-turns, but does not account for stop signs or traffic lights as it is assumed the responding apparatus does not stop.

Community Impact Stats:

The number of structures was calculated by first selecting address points within the area of interest, then selecting parcels that contained those selected address points. Those parcels were then selected as either residential or commercial based on the property type field (PROPTYPE). Finally, the number of structures was obtained by summing the number of buildings field (TOTNOBLDGS). These numbers should be treated as estimates, and are only as good as the underlying parcel data which is maintained by Mesa County. The full procedure can be found here: G:\GIS\DEPARTMENT\FIRE_DEPT\DRIVE TIME_corrected streets\2019\GIS_Procedure.txt

4 Minute Residential Structures Covered: 1,164
4 Minute Commercial Structures Covered: 470

8 Minute Residential Structures Covered: 9,915
8 Minute Commercial Structures Covered: 1,958



City Limits
Fire District

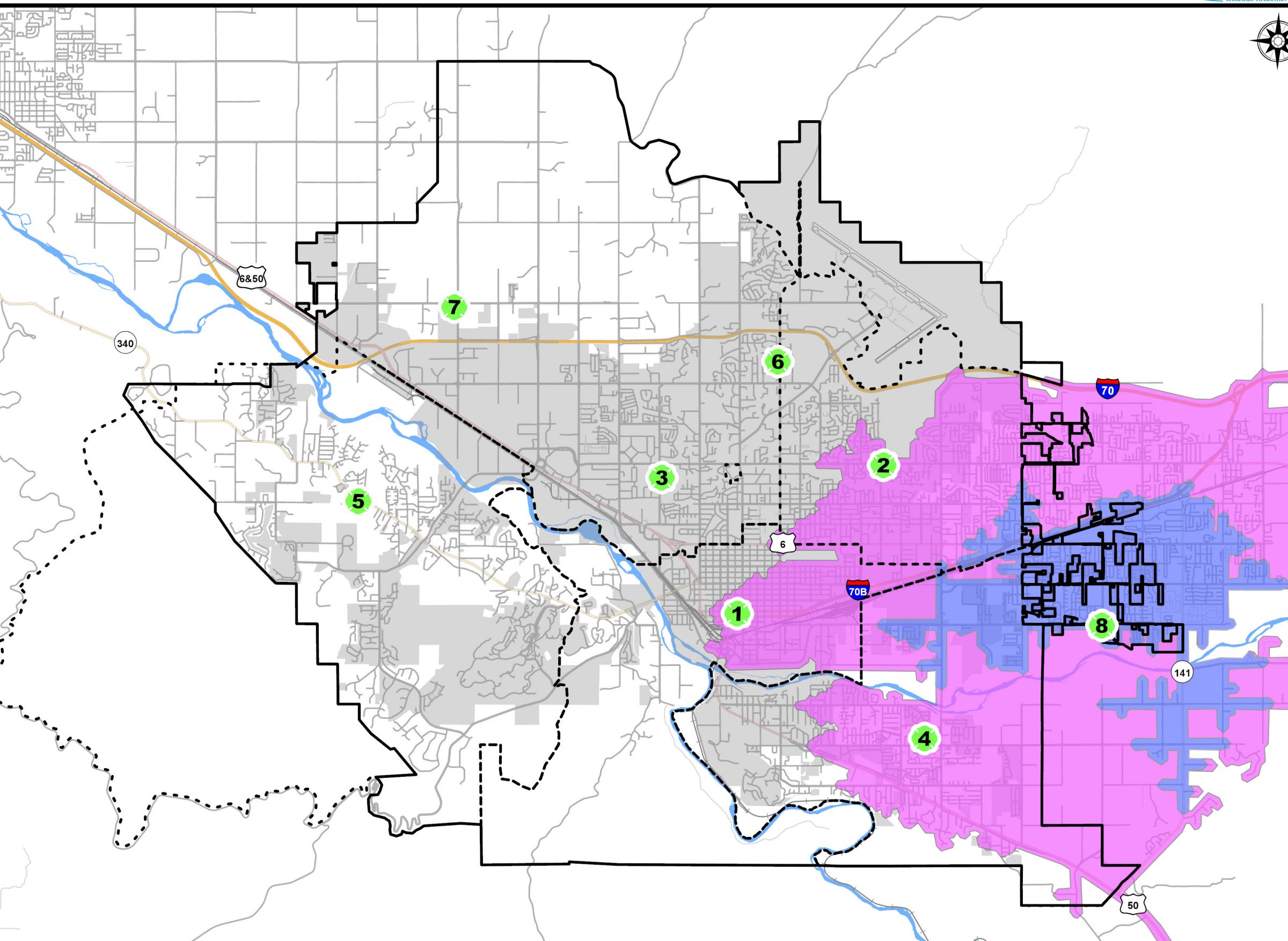
Station Boundaries
Fire Stations
4 Minute Drive Time Coverage
8 Minute Drive Time Coverage

DRAWN BY: dylan DATE: 5/2/2019

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GJFD DRIVE TIME ANALYSIS

CITY OF
Grand Junction
COLORADO
geographic information systems



- City Limits
- Fire District
- Station Boundaries
- Fire Stations

- 4 Minute Drive Time Coverage
- 8 Minute Drive Time Coverage

DRAWN BY: dylan DATE: 5/2/2019

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Supplemental City Information

GJFD Method/Description:

Stations 1-5 are existing locations, and stations 6-8 are proposed locations. The purpose of the map is to show area covered from Station 8 within four and eight minute response times.

GIS Methodology:

The drive time polygons were created using ESRI's Network Analyst Extension in ArcGIS Pro. Stations 1-8 were used to create a theoretical area that can be reached within a given amount of time along the road network. The analysis takes into account speed limits, one way streets, allows for u-turns, but does not account for stop signs or traffic lights as it is assumed the responding apparatus does not stop.

Community Impact Stats:

The number of structures was calculated by first selecting address points within the area of interest, then selecting parcels that contained those selected address points. Those parcels were then selected as either residential or commercial based on the property type field (PROTYPE). Finally, the number of structures was obtained by summing the number of buildings field (TOTNOBLDG). These numbers should be treated as estimates, and are only as good as the underlying parcel data which is maintained by Mesa County. The full procedure can be found here: G:\GIS\DEPARTMENT\FIRE_DEPT\DRIVE TIME_corrected streets\2019\GIS_Procedure.txt

4 Minute Residential Structures Covered: 8,132
4 Minute Commercial Structures Covered: 362

8 Minute Residential Structures Covered: 25,867
8 Minute Commercial Structures Covered: 1,646