

14<sup>th</sup> Annual New Partners for Smart Growth Conference  
Baltimore, MD

January 29-31, 2015

# The Fiscal Connection: Land Use and Municipal Budgets

Fire and Emergency Medical Services Deployment

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A tale of two cities...



- Pre-annexation
  - 117 square miles
- Post-annexation
  - 182 square miles
    - +67 square miles
    - 37% ↑

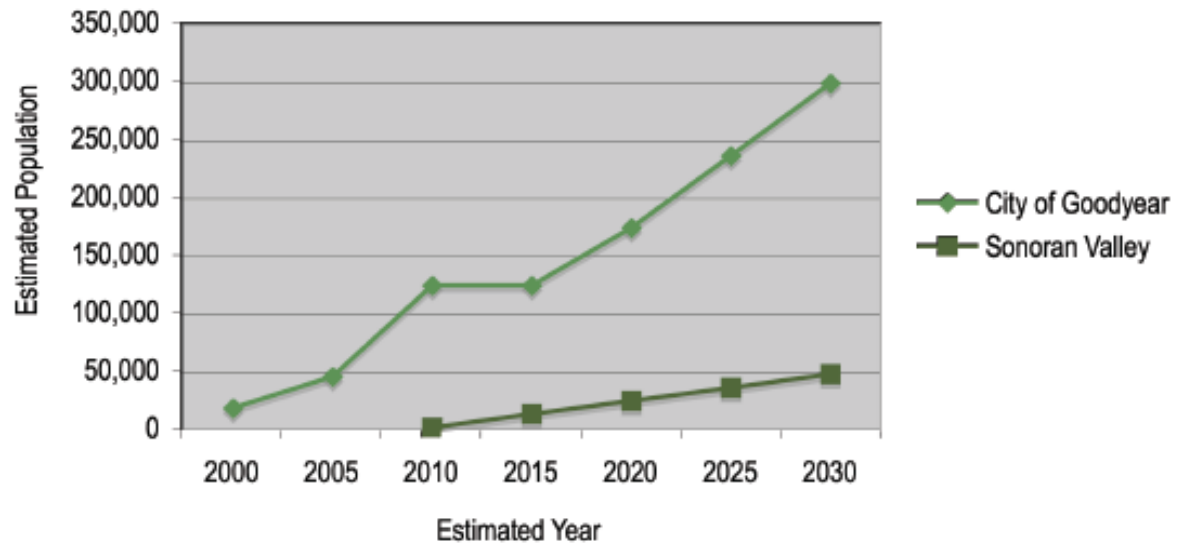
Source: *City of Goodyear Sonoran Valley Public Safety Master Plan, 2008*



<u>Year</u>	<u>Total City Population Projection</u>	<u>Sonoran Valley</u>
2000	18,900	
2005	46,200	
2010	71,400	1,800
2015	125,000	13,700
2020	174,500	25,200
2025	237,000	36,600
2030	299,400	48,200

Source: *City of Goodyear Sonoran Valley Public Safety Master Plan, 2008*

**Chart 1 - City of Goodyear Population Projections**









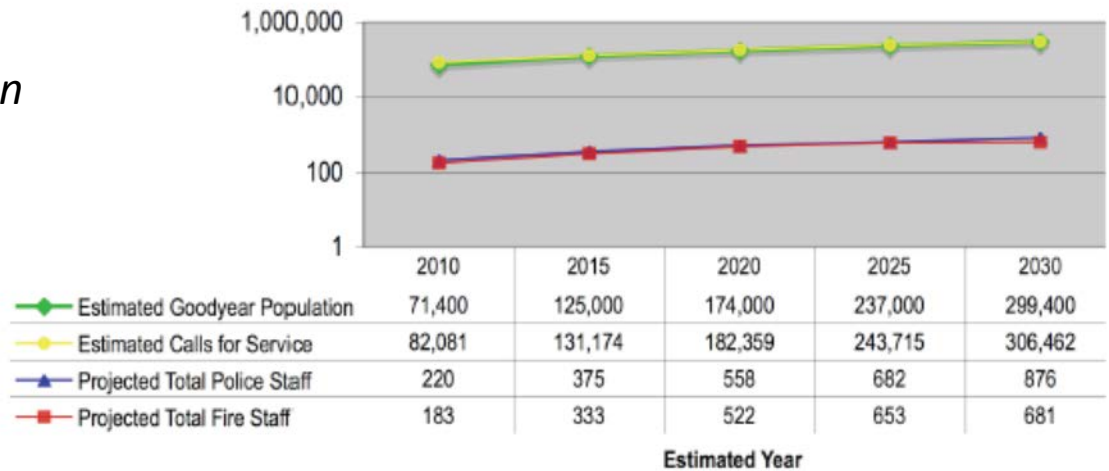
**Table 7 - Goodyear Fire Call Workload Comparison  
for Year 2006**

City	All Fires Current Year	All EMS Current Year	All Other Current Year	Total Current Year	Rank	Fires % Current	EMS % Current Year	Other % Current Year	Calls per Day Current Year
Clark County, Nevada	4,143	76,120	23,681	103,944	1	3.99%	73.23%	22.78%	284.76
Mesa, Arizona	1,480	43,063	11,161	55,704	2	2.66%	77.31%	20.04%	152.61
Glendale, Arizona	5,502	29,830	3,970	39,302	3	14.00%	75.90%	10.10%	107.68
North Las Vegas, Nevada	1,093	14,084	7,084	22,261	4	4.91%	63.27%	31.82%	60.99
Henderson, Nevada	839	14,607	5,713	21,159	5	3.97%	69.03%	27.00%	57.97
Garland, Texas	4,867	13,799	0	18,666	6	26.07%	73.93%	0%	51.14
Chandler, Arizona	325	12,232	2,580	15,137	7	2.15%	80.81%	17.04%	41.47
Peoria, Arizona	1,182	10,900	618	12,700	8	9.31%	85.83%	4.87%	34.79
Elk Grove, California	575	6,637	2,971	10,183	9	5.65%	65.18%	29.18%	27.90
McKinney, Texas	2,750	5,500	0	8,250	10	33.33%	66.67%	0.00%	22.60
Goodyear, Arizona	117	2,357	669	3,143	11	3.72%	74.99%	21.29%	8.61
Average	2,079	20,830	5,313	28,223					77.32

1. Source: E5Ci comparable cities study / Goodyear

Source: *City of Goodyear Sonoran Valley Public Safety Master Plan, 2008*

**Chart 3 - Projected Staff Increase to Calls for Service Increase, & Population Increase**







**Table 3 - Goodyear Fire Total Staff Comparison<sup>1</sup>**  
Year 2006

City	Population 2006	Number of Stations	Number of Engines	Staffing on Engines	Number of Trucks	Staffing on Trucks	Number Rescue or Squads	Operational Daily Staffing	Total Fire Staff / 1000 Population	Rank
Goodyear, Arizona	47,359	6	6	4	1	4	0	28	0.59	1
Elk Grove, California	112,338	8	8	3	1	4	0	40	0.36	2
McKinney, Texas	107,530	7	7	4	2	4	0	36	0.33	3
Peoria, Arizona	142,024	8	8	4	1	4	2	40	0.28	4
Scottsdale, Arizona	231,127	13	13	3	3	3	4	56	0.24	5
Glendale, Arizona	246,531	10	10	4	2	4	3	54	0.22	6
Henderson, Nevada	240,614	9	9	4	1	4	6	52	0.22	7
Mesa, Arizona	447,541	17	18	4	5	4	0	92	0.21	8
Chandler, Arizona	240,595	10	10	4	2	4	0	48	0.20	9
Garland, Texas	217,963	11	9	3	0	0	0	43	0.20	10
North Las Vegas, Nevada	197,567	6	6	4	1	4	0	28	0.14	11
<b>Average</b>	<b>202,835</b>	<b>10</b>	<b>9</b>	<b>4</b>	<b>2</b>	<b>4</b>	<b>1</b>	<b>47</b>	<b>0.27</b>	

1. Source: ESCI comparable cities study / Goodyear

**Table 5**  
**Goodyear Police & Fire Staff per Square Mile Comparison**  
Year 2006

City	Total City Square Mile	Total PD Staffing	Total Police Staff per Square Mile	Rank	Total Daily Ops. Fire Staffing	Total Fire Staff per Square Mile	Rank
Mesa, Arizona	131	1321	10.08	1	92	0.70	3
Glendale, Arizona	59	513	8.69	2	54	0.92	1
Garland, Texas	57	460	8.07	3	43	0.75	2
Chandler, Arizona	70	459	6.56	4	48	0.69	4
North Las Vegas, Nevada	82	418	5.10	5	28	0.34	8
Henderson, Nevada	98	472	4.82	6	52	0.53	6
Scottsdale, Arizona	184	629	3.42	7	56	0.30	9
McKinney, Texas	61	161	2.64	8	36	0.59	5
Elk Grove, California	106	181	1.71	9	40	0.38	7
Peoria, Arizona	185	241	1.30	10	40	0.22	10
Goodyear, Arizona	184	95	0.52	11	28	0.15	11
<b>Average</b>	<b>110.6</b>	<b>450</b>	<b>4.81</b>		<b>47</b>	<b>0.51</b>	

Source: City-Data.com

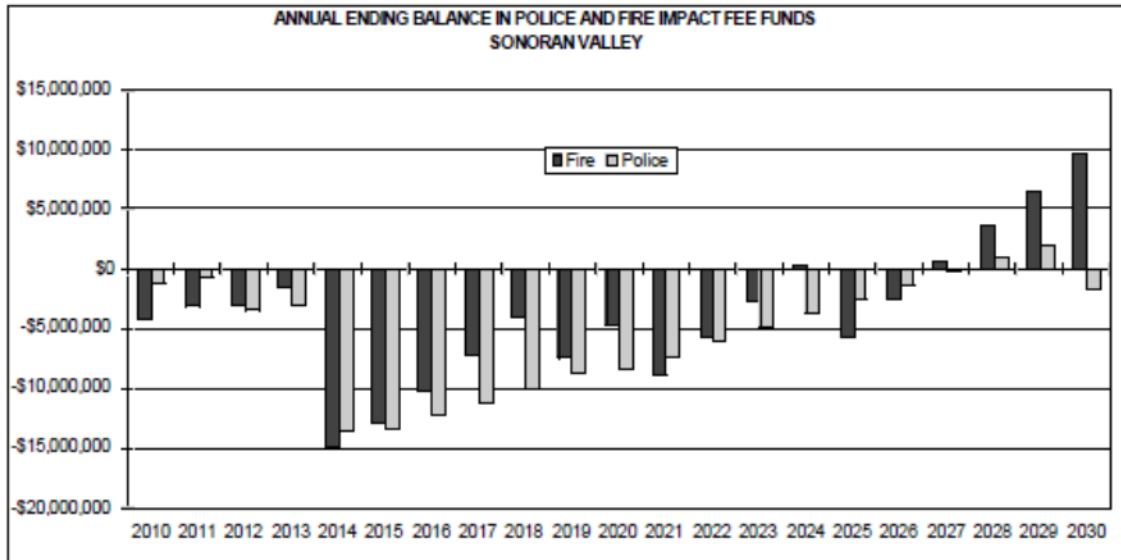
Source: *City of Goodyear Sonoran Valley Public Safety Master Plan, 2008*



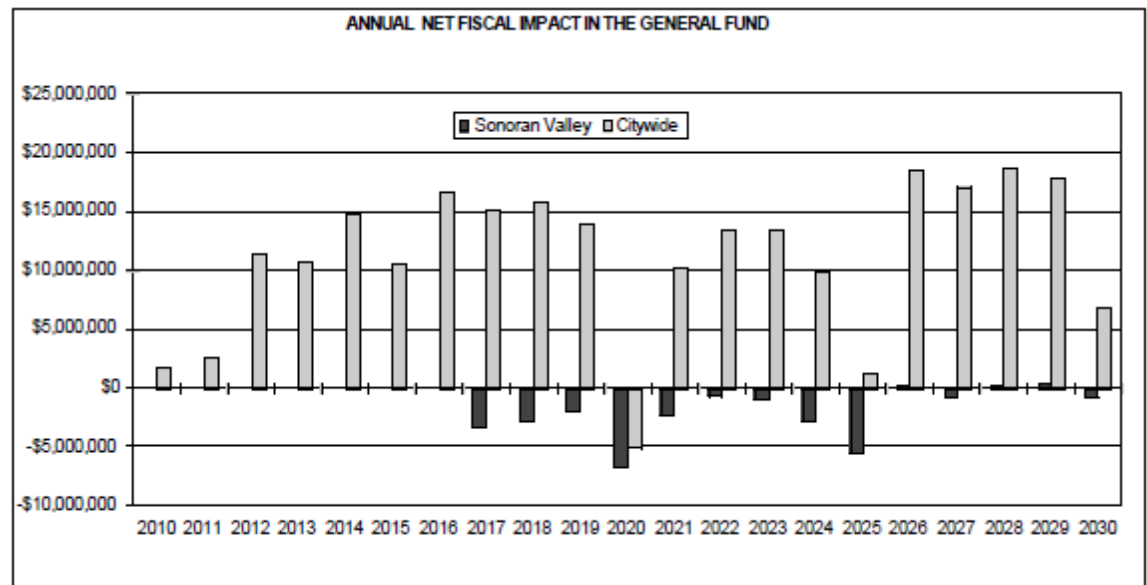








Source: *City of Goodyear  
Sonoran Valley Public Safety  
Master Plan*







ca. 1748



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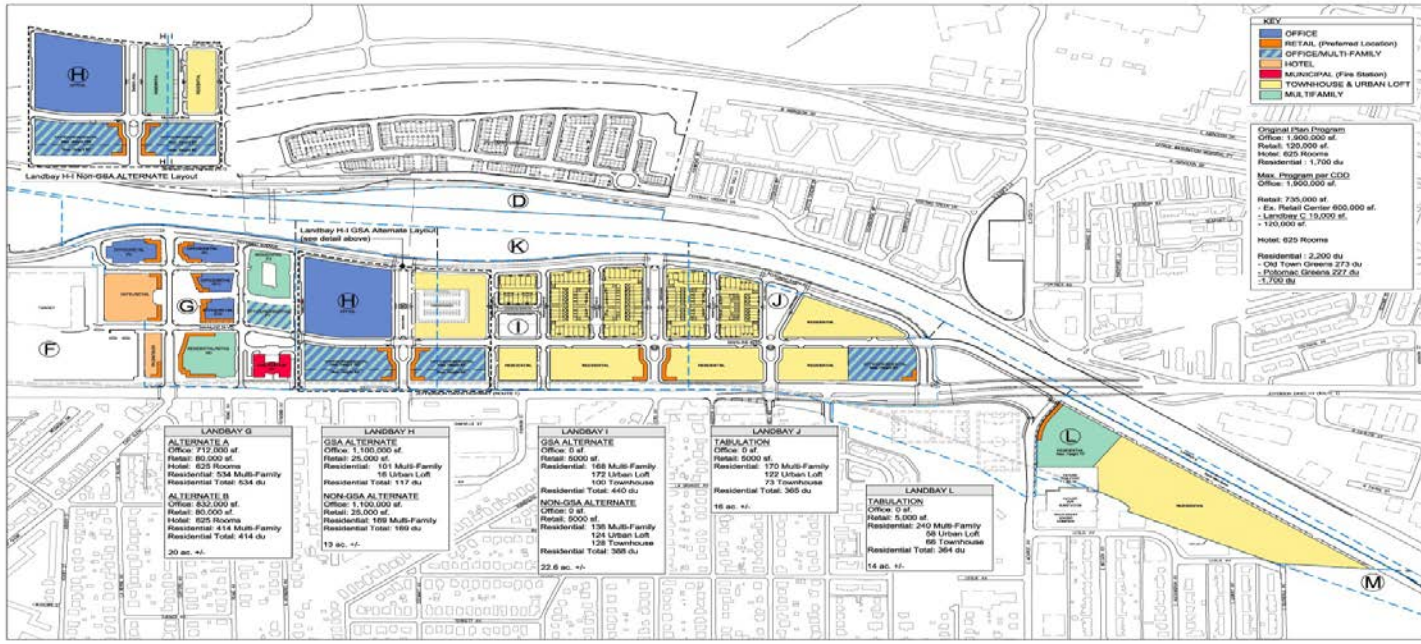
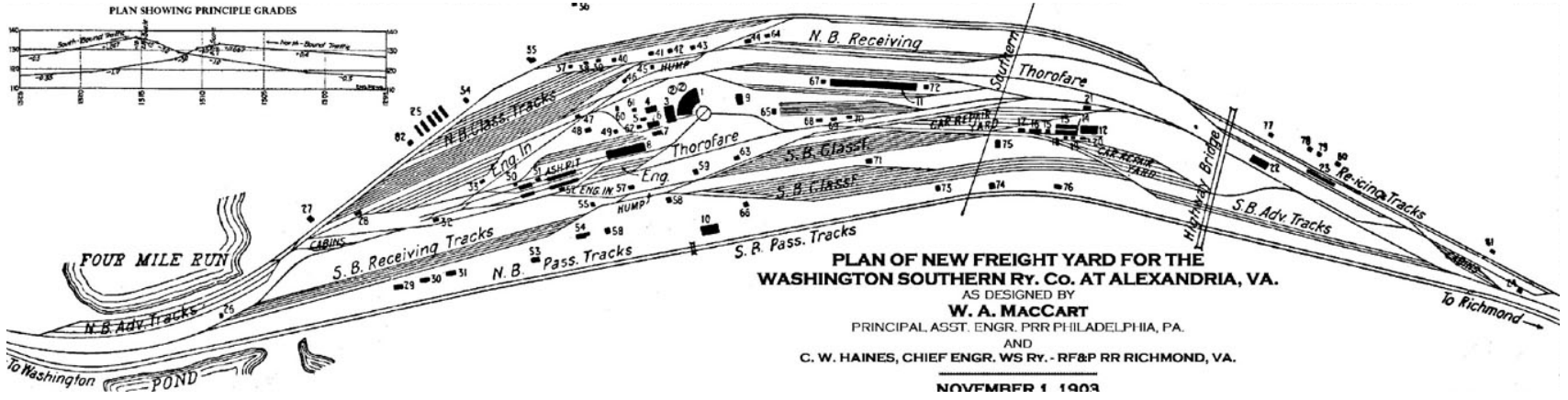
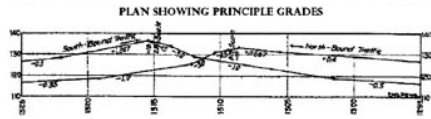
ca. 1749











**LandDesign**

NOTE: GRAPHIC FOR ILLUSTRATIVE PURPOSES ONLY. SITE PLAN SUBJECT TO CHANGE.

**Potomac Yard**  
 Concept Plan



September 24, 2010 | LDH2003155







# ALEXANDRIA WATERFRONT



























**City of Alexandria  
Fire & EMS Service Demand  
CY 2011 Incident Volume**

**Legend**

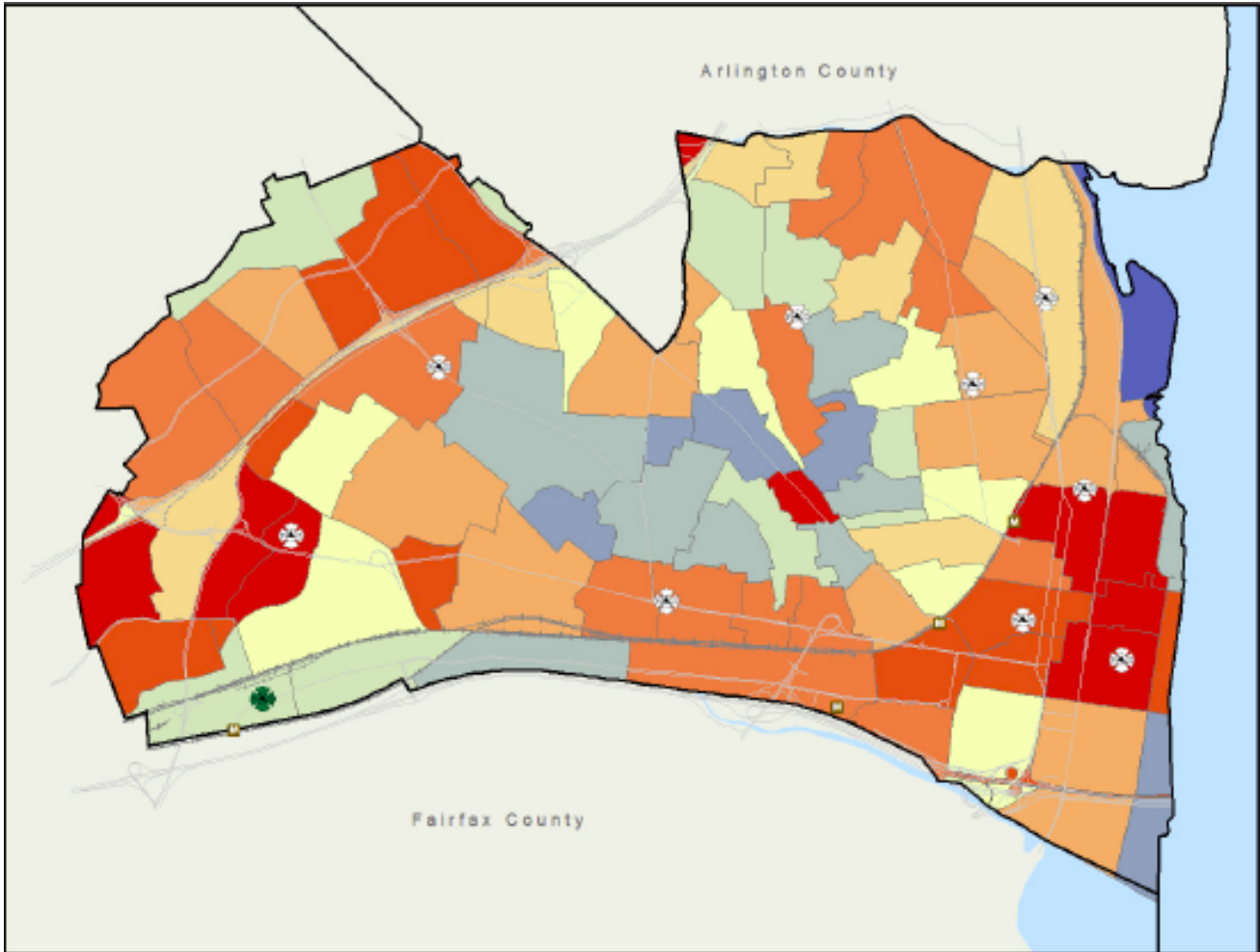
-  Current Fire Stations
-  Proposed Fire Station 218
-  Metro Stations
-  Roads
-  Rail Lines

**2011 Fire Box Totals  
Incidents per square mile**

-  50 or below
-  50 - 100
-  100 - 200
-  200 - 300
-  300 - 400
-  400 - 500
-  500 - 700
-  700 - 1000
-  1000 - 1500
-  1500 - 2000
-  2000 - 10000



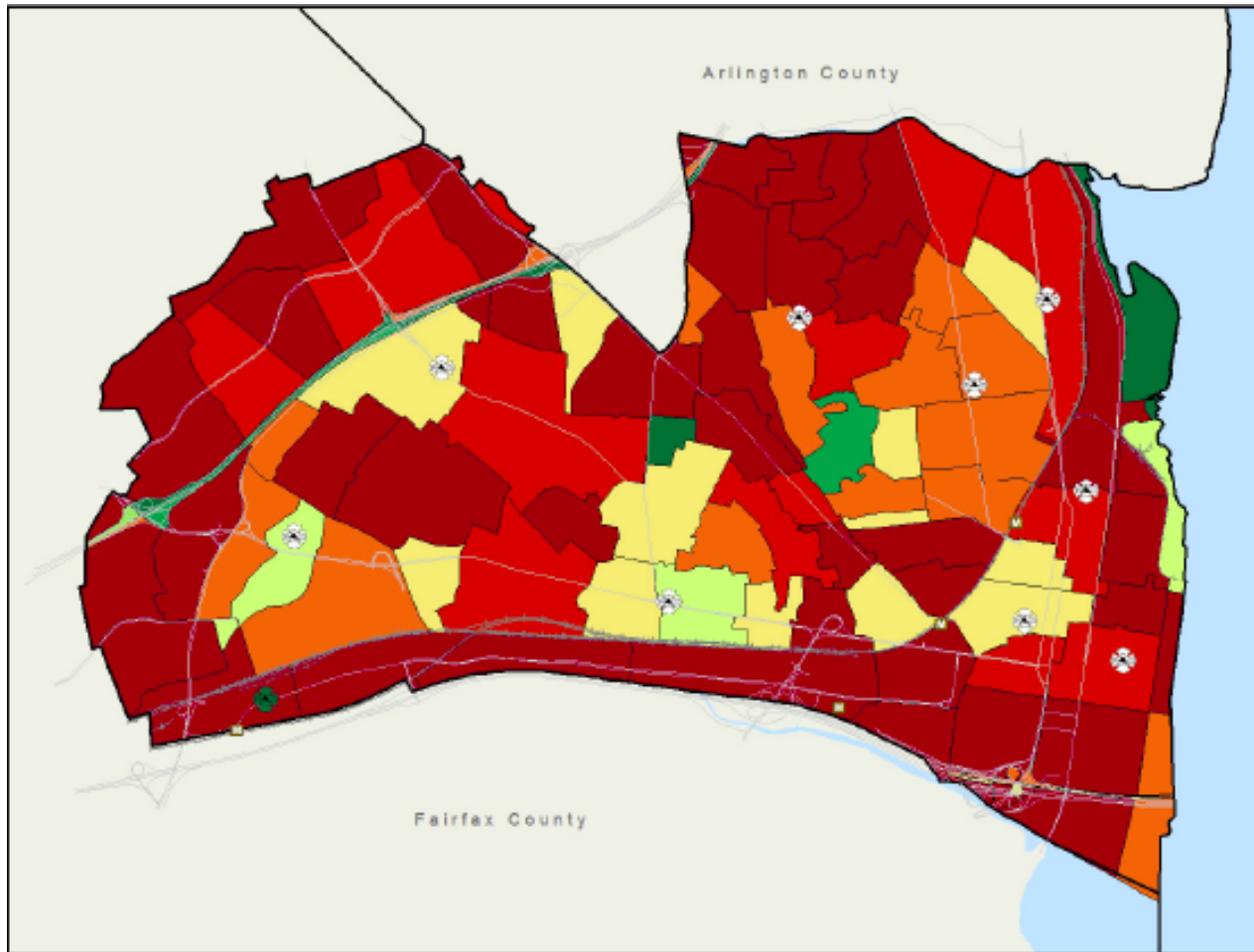
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**City of Alexandria  
Fire & EMS Response Times  
CY 2011 90<sup>th</sup> Percentile Response Times**

**Legend**

- Proposed Fire Station 216
- Current Fire Stations
- Metro Stations
- Roads
- Rail Lines

**2011 Fire Box Response Times\***

- Less than 4.0 Min
- 4.1 - 4.5 Min
- 4.6 - 5.0 Min
- 5.1 - 5.5 Min
- 5.6 - 6.0 Min
- 6.1 - 6.5 Min
- 6.6 - 7.0 Min
- More than 7 Min

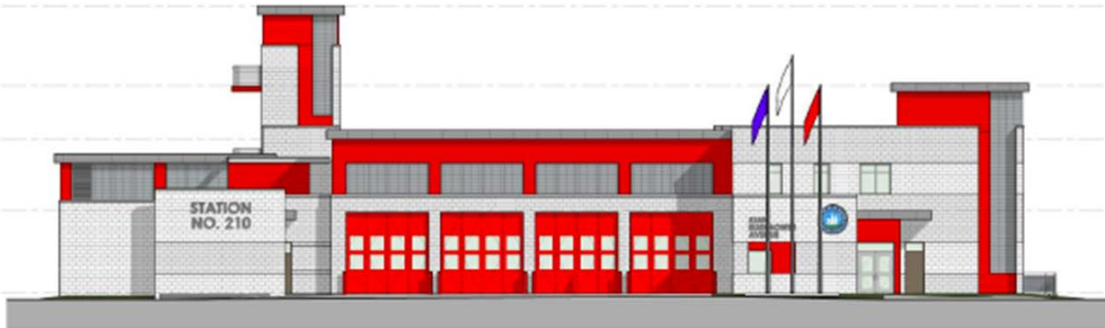
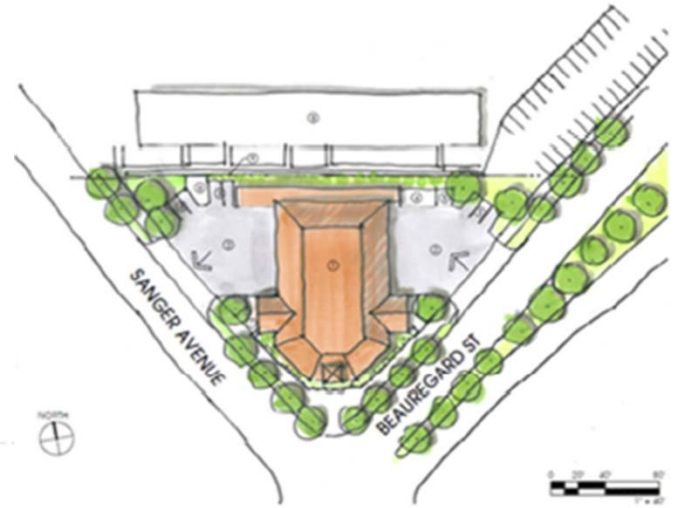
\* The US National Standard for Emergency Response in Urban Areas is 5 minutes and 30 seconds.

0 1,000 2,000 4,000  
Feet

1:30,000  
1 inch = 2,500 feet

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