# City of Missouri City

A City of Commuters: TMC Working for it's Residents

ITS Texas Annual Meeting November 8, 2018



#### History

- 1998 The City maintained 5 traffic signals
- 1999 First Traffic Signal Tech was hired
- ❖ 2000 Census showed our pop was <50K
- 2001 TXDOT handed over 28 traffic signals
- 2008 5-year ITS Operations Plan was approved
- 2010 TXDOT let ITS project
- 2012 ITS I project completed
- 2018 ITS II project completed



## Today

- 65 traffic signals with UPS back up systems
- 45 PTZ cameras
- ❖ 300+ video feeds from our detection cameras
- ❖6 DMS signs along SH 6, 1 on S. Gessner
- **❖**TMC
- Traffic Web Page
- Wireless Network
- Flashing Yellow Arrow



### **Traffic Operations**

- 1 Traffic Engineer
- 1 Traffic Operations Manager
- 2 Traffic Signal Technicians
- 2 Sign & Pavement Technicians
- 3 Bucket Trucks Fully Equipped
- Sign Maintenance Shop
- Signal Maintenance Shop
- Traffic Management Center



## **Traffic Signals**

What is the purpose of a traffic

signal?

Missouri City
Is Growing!





#### Advantages

- Provide for orderly movement of traffic
- Increase traffic capacity of the intersection
- Reduce the frequency of certain types of crashes (e.g. right-angle crashes)
- Provide for continuous or nearly continuous movement of traffic along a given route
- Interrupt heavy traffic to permit other traffic, vehicular or pedestrian, to cross



### Disadvantages

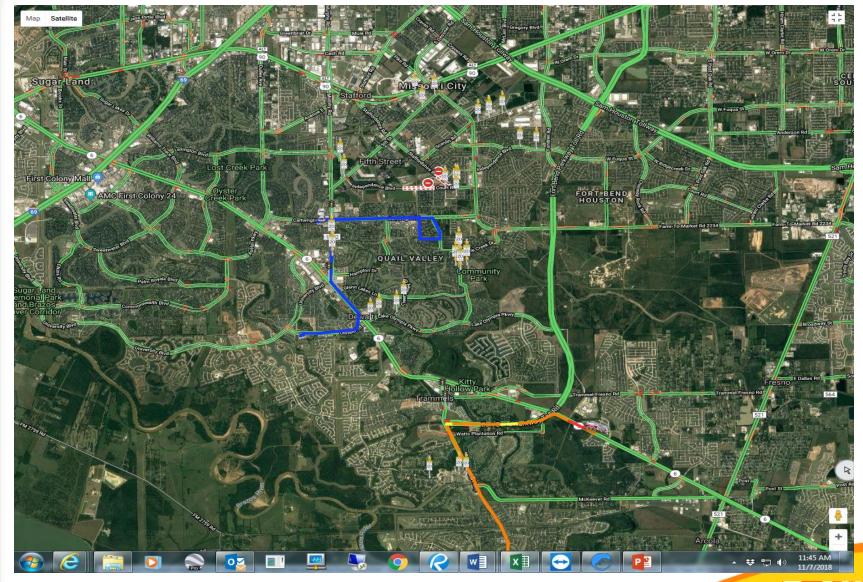
- Excessive delay
- Excessive disobedience of the signal indications
- Increased use of less adequate routes as road users attempt to avoid the traffic control signals
- Increases in the frequency of crashes (especially rear-end crashes).



#### Traffic Management Center

- Designed by Walter P. Moore
- All data and video is transmitted to our TMC from three other towers.
- 2 Workstations are broken down to data software(Fourth Dimension) and video software (Chameleon 360 by Flir)
- Travel Data collected through Blue Tooth readers.







#### TMC Continued...

- 2 Five Screen Workstations
- 35 School Zone Flashers Monitored
- Applied Information GPS Priority Preemption





#### TMC Continued...

- Alpha battery backup on every cabinet.
- Mid-Block crossings at key points
- Driver Feedbacks on high risk roads
- Vivids Detection
- Radios & Switches





#### TMC continued:

- ❖ Dynamic Messaging Signs are operated thru the Chameleon video software.
- We currently have six DMS in operation along SH6 and 1 on South Gessner
- They allow the public to have instant access to any road or weather conditions, road closures or detours. We also have communication from the state level in reference to Amber/Silver Alerts.





