CEAM Project of the Year: Central Avenue Improvements

Presented by
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& HKGi
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Background

- Project developed over past 10 years
- City recognized need but also the challenges
  - Supporting regional traffic on local roadway
  - Maintaining a historic downtown district
  - Helping businesses sustain during construction
  - Generating its own funding package
Background

- Growth & redevelopment
- Redevelopment potential facilitated by supporting infrastructure
Background

- Central Avenue & TH 169
  - Until 1980s Central Avenue served as primary north-south corridor
  - TH 169 constructed around east side of City
Background

- Central Avenue today
  - Traffic Volumes between 11,000 and 15,000 vpd
Central Avenue Improvements

- Early Decisions: maintain 2-lane roadway, maximize parking & pedestrian facilities
Central Avenue Improvements

- Utility Improvements: Watermain
  - Existing watermain was only 6”
  - Existing services 1” and 2” lines
  - Proposed: increase fire protection and Citywide flow capacities – 10” PVC installed
  - 6” water services installed to each building
Central Avenue Improvements

- Utility Improvements: Storm Sewer
  - Increase capacity to address minor surcharge problems.
  - Ensure system would last as long as concrete roadway.
  - Due to flat grades in the area along with the related capacity needs plastic A2000 storm sewer pipe was used.
Central Avenue Improvements

- Utility Improvements: Storm Sewer
  - Opportunity to improve long-standing flooding problem on 1st Avenue NW.
Central Avenue Improvements

- Utility Improvements: Sanitary Sewer
  - Downtown buildings along Central Avenue are served along alleys behind buildings.
Central Avenue Improvements

- Street Improvements
  - 8” Concrete Pavement
Central Avenue Improvements

- Construction: Phasing & Access

**Phase 1**

- Construction Limits
- Detour Route

**Phase 2**
Streetscape
Streetscape... the need
Streetscape – Design Objectives
Design Quality • Longevity • Adaptability • Sustainability • Community identity
Streetscape – Design Quality
Streetscape - Longevity

Material selection

Construction Detailing
Streetscape - Flexibility

Kit of parts
Accommodate redevelopment
Streetscape - Sustainability

LED Lighting
Drought Tolerance
Structural Soil
Stormwater Infiltration
Streetscape – Community Identity

Community Pride
Economic development
Quality of life
Streetscape – Civic Plaza
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