



Transportation Committee

December 14, 2017



Micro Trench Pilot Program Update

Anthony Chukwudolue, Assistant Director

Background

September 2016: City Council approved micro trench pilot in Council District 6

- Allowed up to 190 miles of fiber deployment using micro trench technique

Open Trench



Directional Bore



Micro Trench



Micro Trench Success Measures

City monitored and evaluated success for pilot based on following criteria:

1. Number of utility impacts (water, sewer, or gas strikes)
2. Pace of work and disruption to the right-of-way
3. Community support for the program



Community Outreach

Construction notifications

- 30 day notification to City Council and affected NA's prior to construction
- 7 days prior, electronic signs on impacted collector or arterial streets
- 3 days prior, door hangers to impacted residents and businesses
- CD6 augmented with social media, newsletter notifications, and e-blasts

Signage

- Construction signage to include Project Type, Utility and Contractor contact information

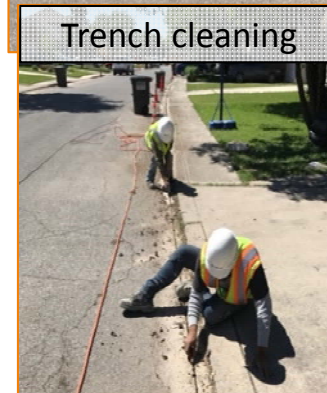
Identification

- Construction crew to wear Utility Owner identifier visible to the public, i.e., vests, hard hats, etc.

Pilot #1 - Photos



Pilot #1 - Photos



Pilot #1 - Photos

Fiber installation



Fiber box



Pilot #1 - Photos

Fiber w/ insulation on top



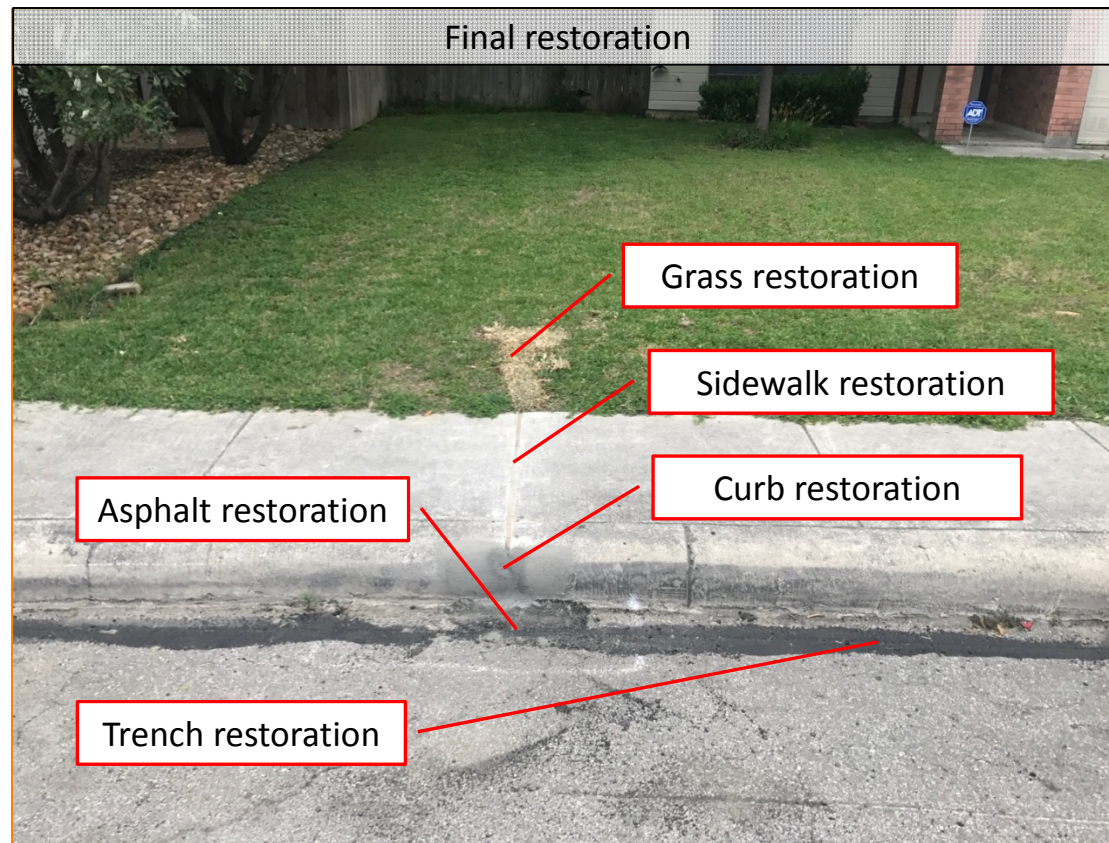
Sealant installation



Final sealant product



Pilot #1 - Photos



Pilot # 2 & 3 - Photos



No parking signs



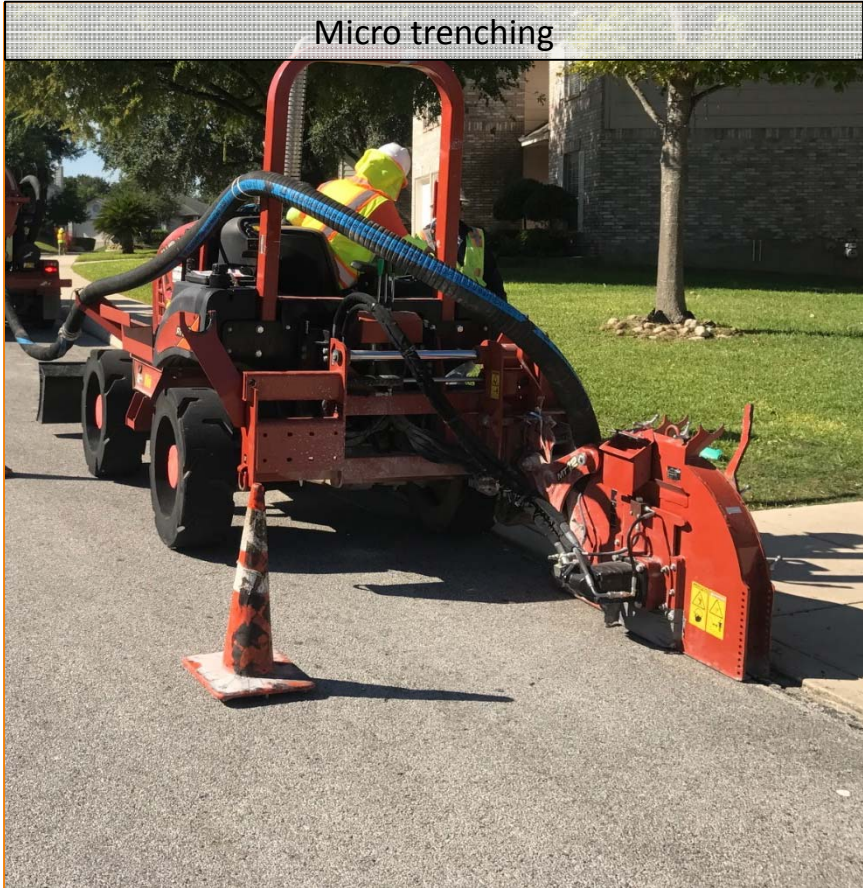
Curb & sidewalk cuts



Curb & sidewalk cuts

Pilot # 2 & 3 - Photos

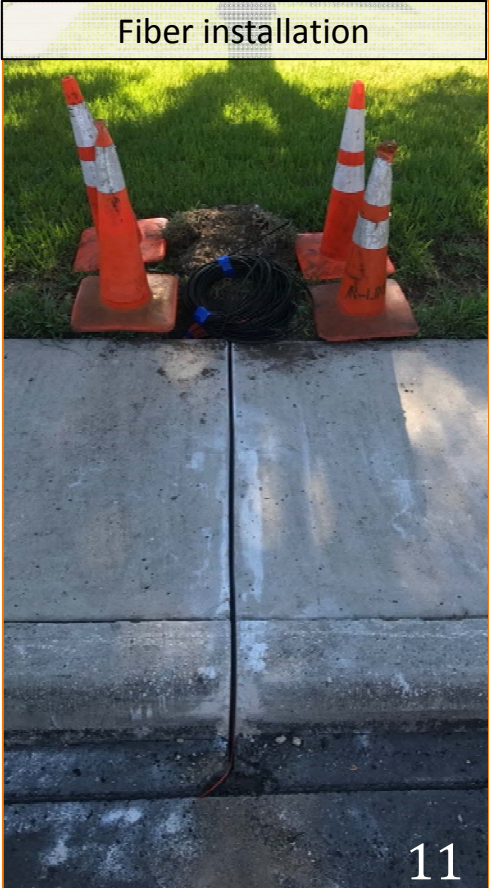
Micro trenching



Fiber installation



Fiber installation



Pilot # 2 & 3 - Photos

Pilot #2: CLSM backfill



Pilot #2: Final CLSM product



Pilot #3: Sealant application



Pilot #3: Final sealant product



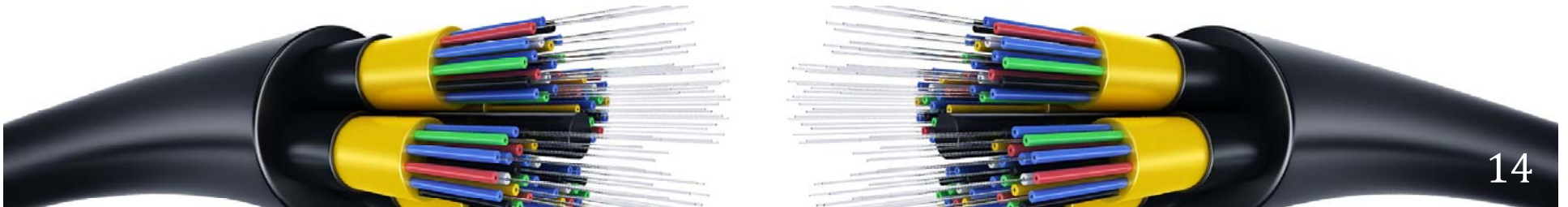
Micro Trench Pilot Results

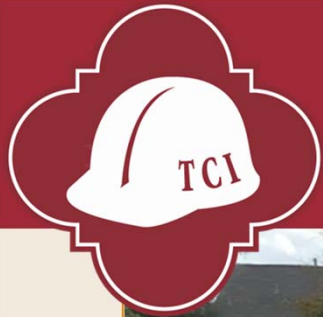
1. Shallow trenching typically avoided conflicts with other utilities including water, electric and gas
2. A faster, less disruptive construction technique. Work often completed in the same day, reducing construction impacts on residents
3. No significant complaints received throughout the pilot period



Recommendation

Staff recommends utilization of micro trenching and updating the Utility Excavation Criteria Manual to include the guidelines related for this construction method.





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