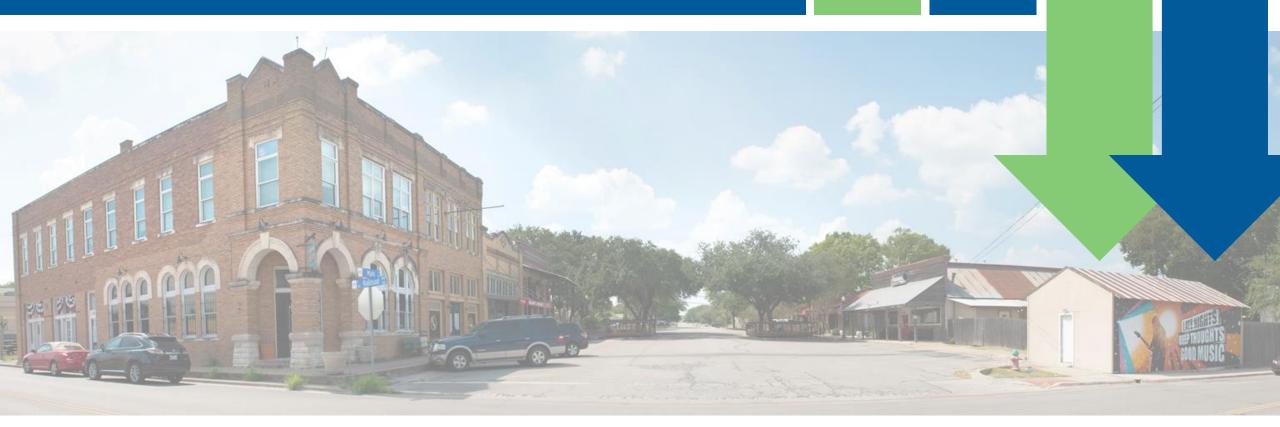
DOWNTOWN UTILITY ANALYSIS

OVERHEAD TO UNDERGROUND UTILITY RELOCATIONS





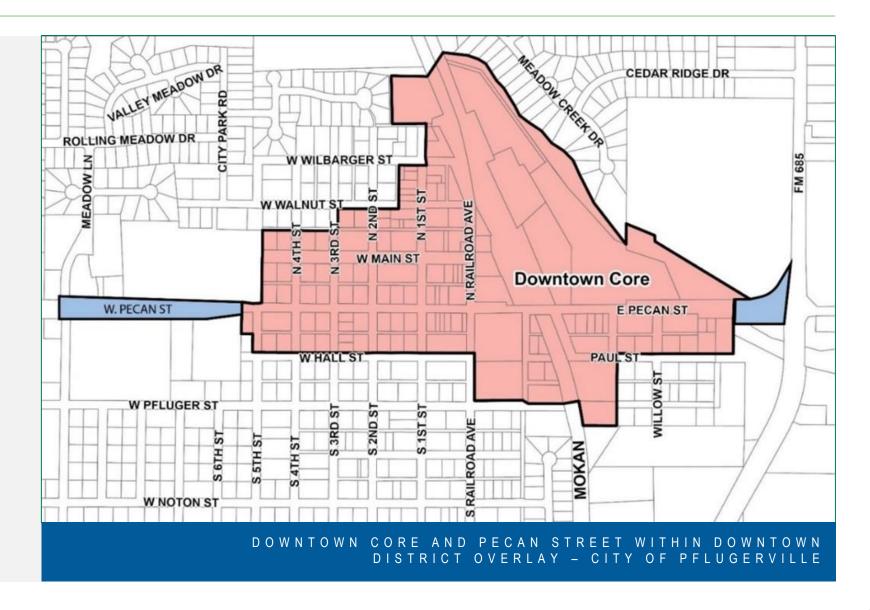
INTRODUCTION

Purpose

- Identify costs
 associated with
 relocating overhead
 utilities underground
- Understand existing infrastructure in study area
- Focus on the Downtown Core and areas along East and West Pecan Street

Benefits

Reliability and Aesthetics

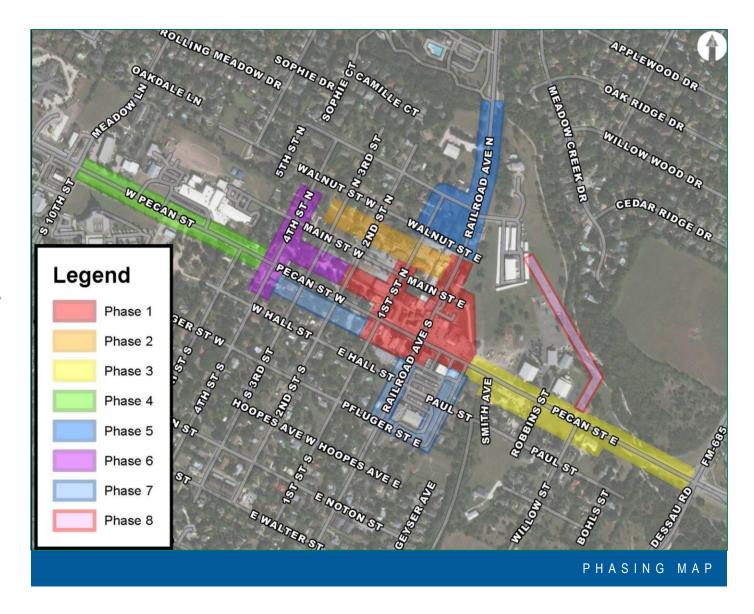




PHASES

Study included

- Records research (Subsurface Utility Engineering Level D)
- Data collection from field audits of overhead infrastructure
- Conceptual overhead to underground design and analysis
- Cost estimates
- Potential project phasing
- Schematic level water and wastewater analysis of the Project Area to identify potential concurrent construction opportunities





RECORDS RESEARCH



Compile a drawing of all utilities based on the records.



Visit site to refine with visible utility features.



Non-destructive designating of all underground utilities.



Expose utilities underground to obtain horizontal and vertical location.

RECORDS RESEARCH

- As-built information from all utilities
- GIS information from City of Pflugerville
 - Parcel data
 - Water and wastewater data



DATA COLLECTION

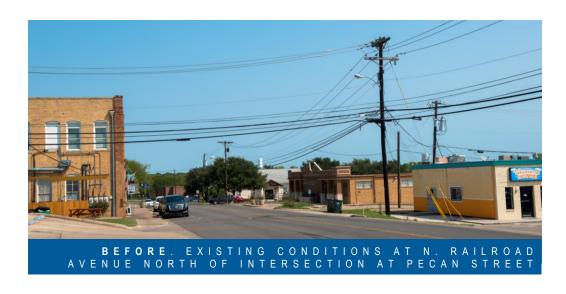
- Field crews audited each pole
- Collected:
 - Pole owner
 - Pole size
 - Primary/secondary wire
 - Transformer
 - Telecommunication attachments
 - Photographs
 - Latitude and longitude

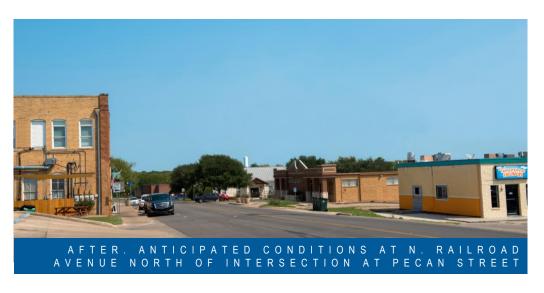




CONCEPTUAL OVERHEAD TO UNDERGROUND DESIGN

- Provide flexibility for future expansion to the system by providing additional conduits
- Replace the existing system in a comparable underground format
- Identify potential easement sizes
- Used to create schematic level cost estimates

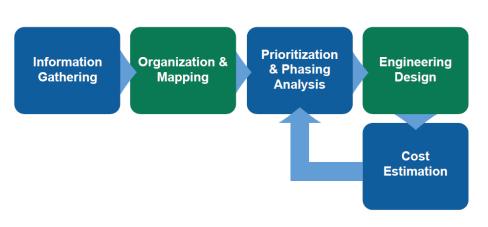


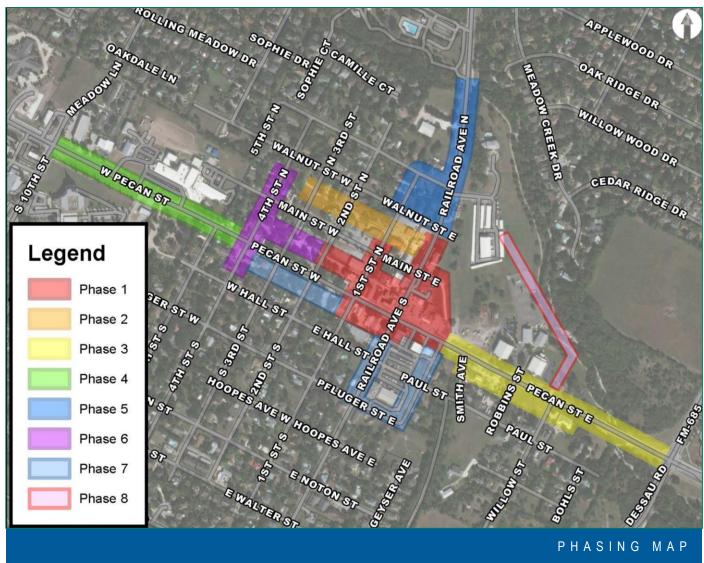




PHASING PLAN

- Visibility
- Development opportunity
- Vehicular and pedestrian activity
- Planned public projects







COST ESTIMATES

- Estimates created for each phase
- Includes:
 - □ 10% site contingency
 - 10% professional services and design support
 - 25% construction contingency
- Provides for all civil infrastructure, equipment, and cable to remove overhead facilities
- Potential easement costs
- Retrofit existing buildings
- Pandemic related cost escalations

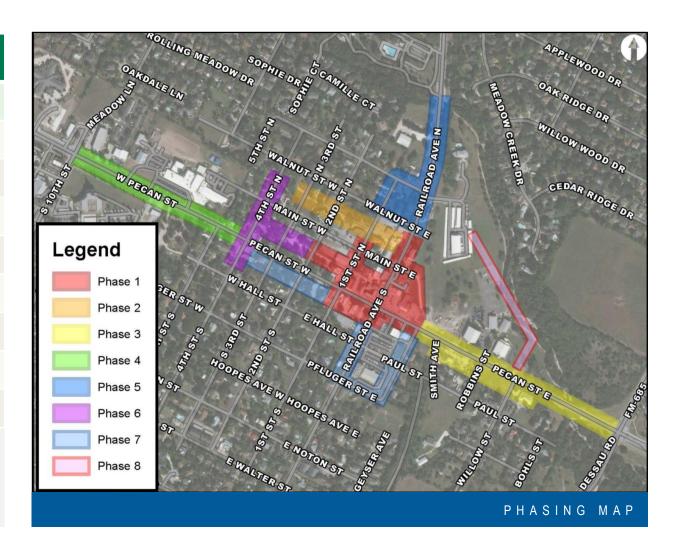






COST ESTIMATES

Cost Estimate by Phase		
Со	st Estimates by Phase	Unit Price
1	Downtown Commercial Core	\$5,917,686
2	Northern Main Street Alley	\$1,180,000
3	East Pecan Street	\$4,805,086
4	West Pecan Street Gateway	\$4,664,127
5	North Railroad Gateway	\$3,506,035
6	Western Downtown Core	\$2,991,680
7	Downtown Core South	\$4,562,909
8	Main Street Extension / Gilleland Creek	\$1,886,116
Overall Cost Estimate		
		\$29,513,639





SCHEMATIC WATER AND WASTEWATER ANALYSIS

Identify opportunities for water and wastewater improvements to occur concurrently with the overhead to underground conversion

Based on SUE Level D research

Review for TCEQ clearance requirements





RECOMMENDATIONS

STEPS PFORWARD

- 1. Identify other desired improvements within the study area that may be coupled with the overhead to underground project phases (e.g., streetscape, pedestrian, street, drainage, utilities, and alley improvements)
- 2. Conduct further detailed water and wastewater systems analysis within Downtown
- 3. Once funding is secured, pursue detailed design and a thorough SUE investigation







QUESTIONS?



