

The Challenges of Retrofitting Walkability

Presented by: Ian Hlavacek, PE

The Challenges:

- Setting Goals/Visions
- Identifying a Champion
- Finding Partners
- Working with Stakeholders
- Funding
- Grant Writing
- Network Planning
- Design
- Limited ROW
- Outdated Drainage
- Cost Estimating
- Bidding
- Etc 1
- Etc 2
- Etc 3
- Even more Etc to make the list look really long

The Challenges:

- Challenge 1: Planning
- Challenge 2: Design

The Challenges:

- Challenge 1: Planning
- Challenge 2: Design

Greater East End Management District

District Boundary Map



**GREATER
EAST END**

General Boundaries

The District is 16 square miles East of Downtown Houston.

North: Clinton Drive

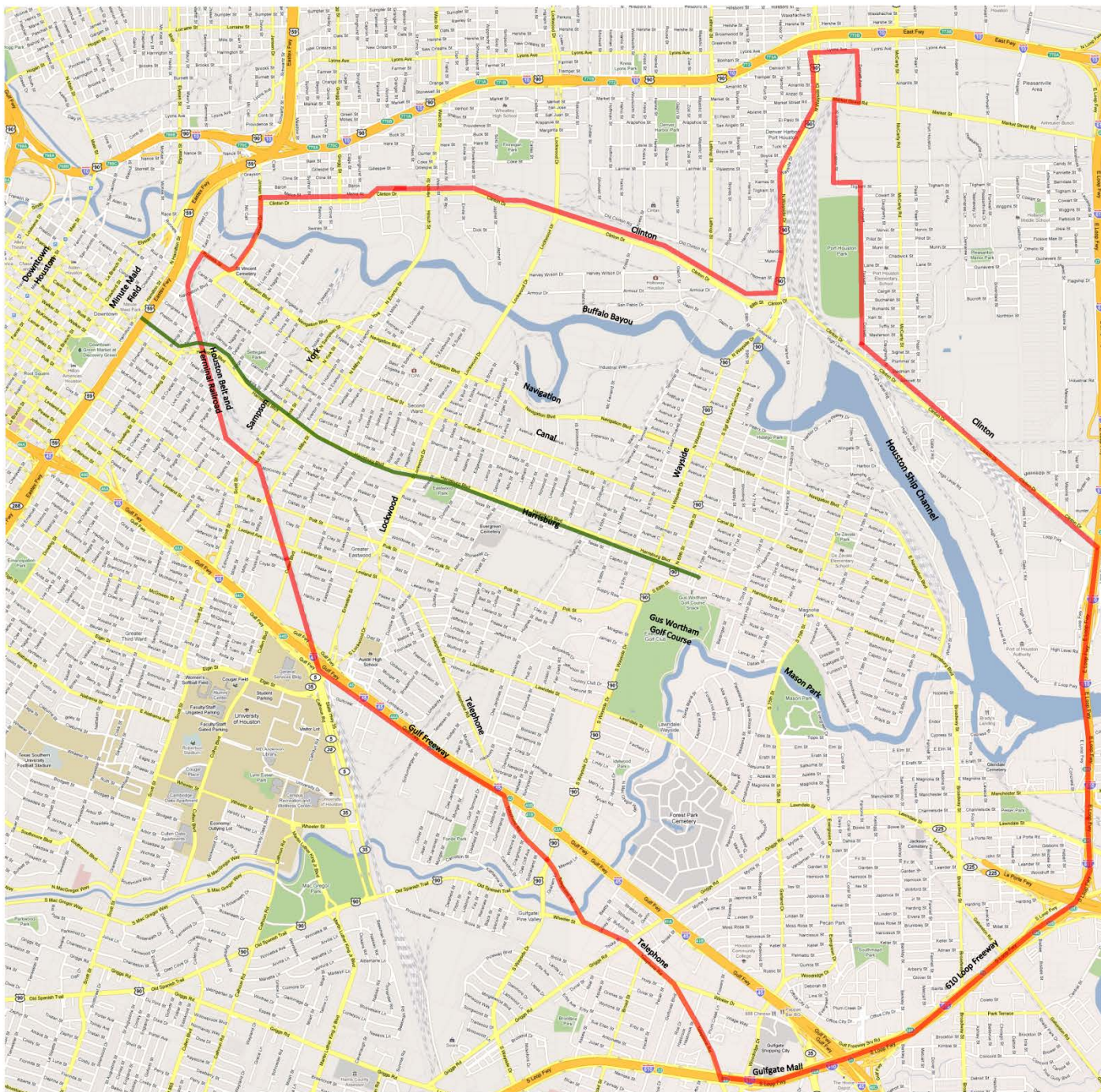
East: 610 East Loop

South: Telephone Road to I-45 Gulf Freeway

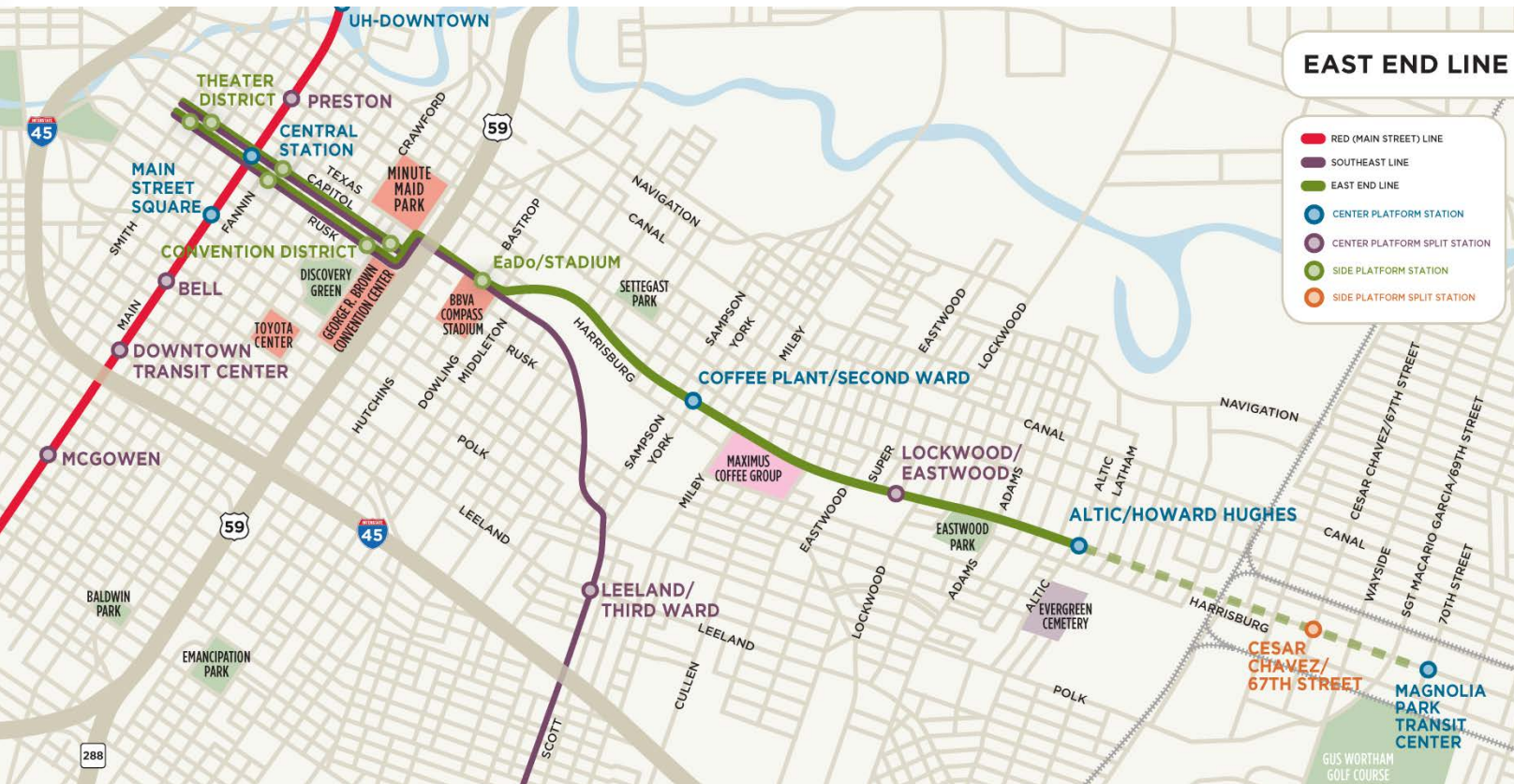
West: Houston Belt and Terminal Railroad to U.S. 59 North

 East End District Boundary

 METRO - East End Light Rail Line
(Completed October 2013)



Catalyst: Light Rail









SCHOOL
SPEED
LIMIT
20
7:00-8:00AM
3:00-3:45PM

STOP











Doña Maria Mexican Cafe

SMILE
YOU'RE ON
CAMERA

RESTROOM
FOR
CUSTOMERS
ONLY

DOÑA MARIA
MEXICAN CAFE
HIDALGO
Cafe
WEDNESDAY
7 2
7B 25 317

MERIDA
MEXICAN
CAFE
JESSE ANNETTE
LIVE MUSIC
SAT 7 10 PM

MERIDA

WOW BREAKFAST
GAME MON-FRI.
EARLY BIRD SPECIAL \$1.99 6 A.M. - 10 A.M.
NEW!
GRANDY TACO BURRITOS
MEXICAN PASTES
ALL DAY
W. BARRINGTON

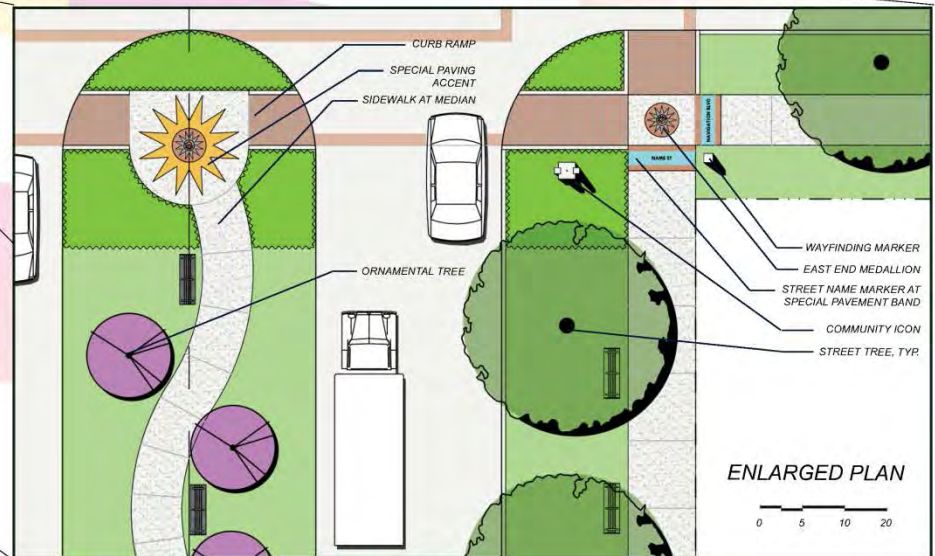


NAVIGATION PROTOTYPICAL INTERSECTION WITH MEDIAN

0 10 20 30



TYPICAL NAVIGATION STREET CORNER





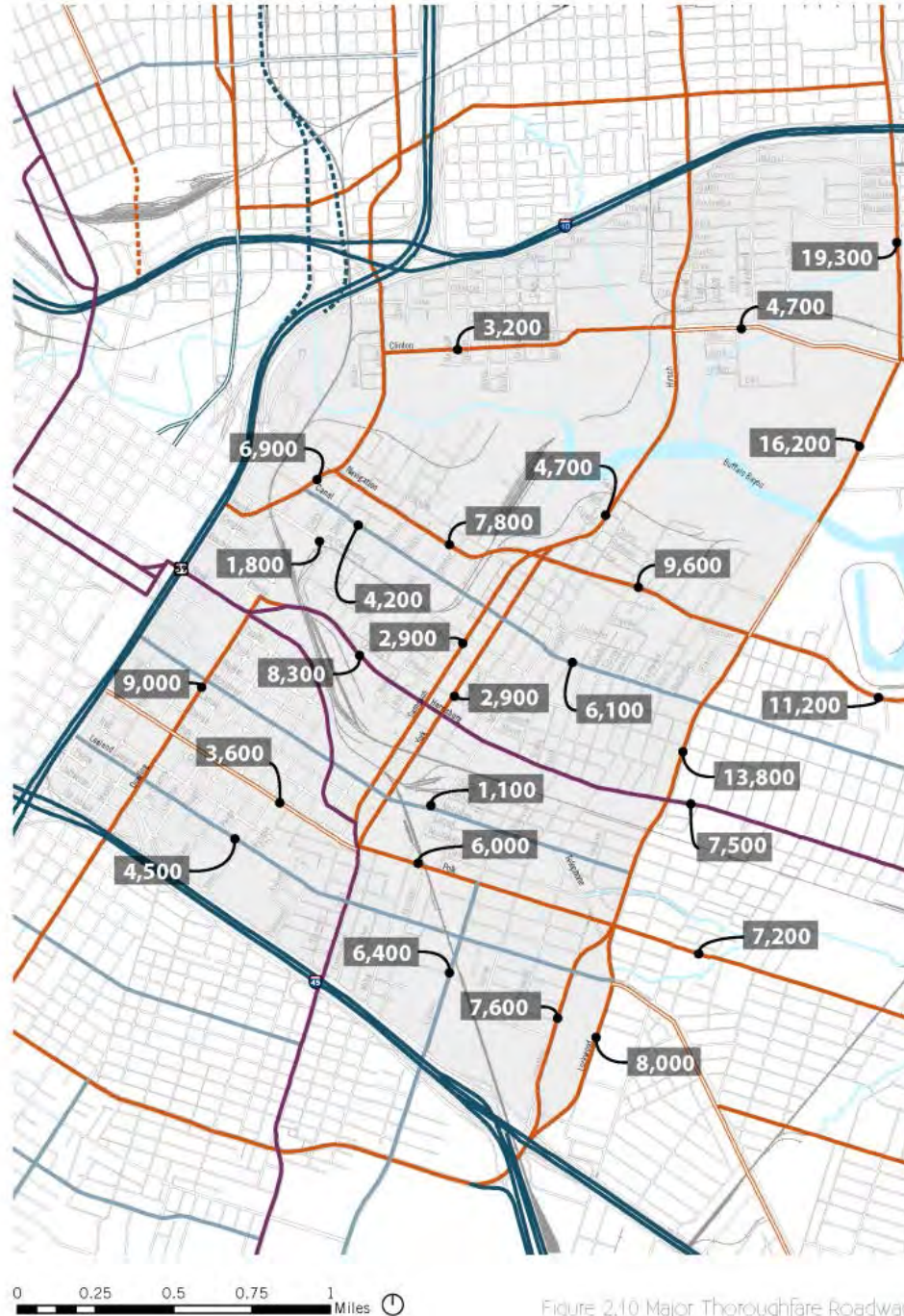
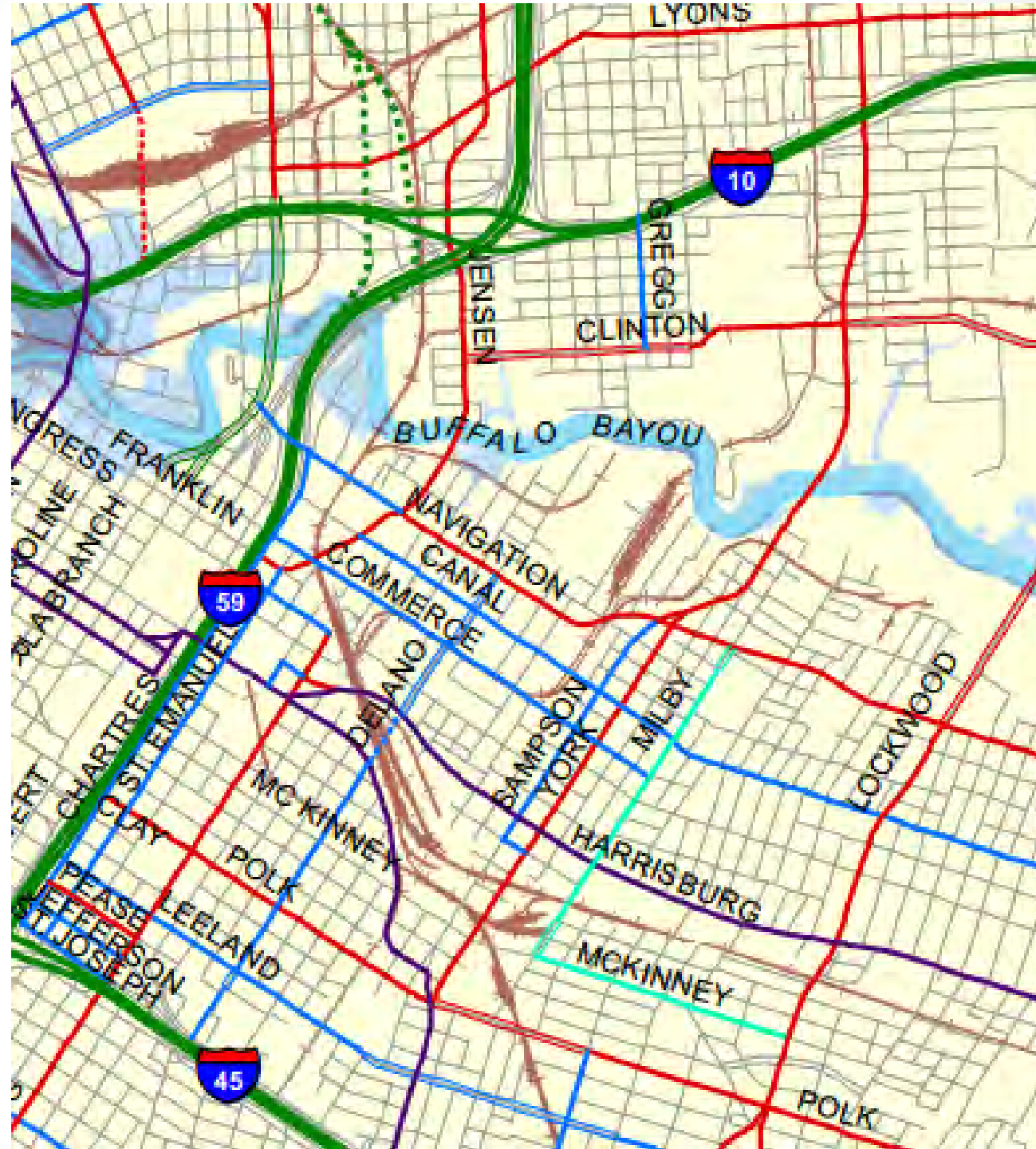
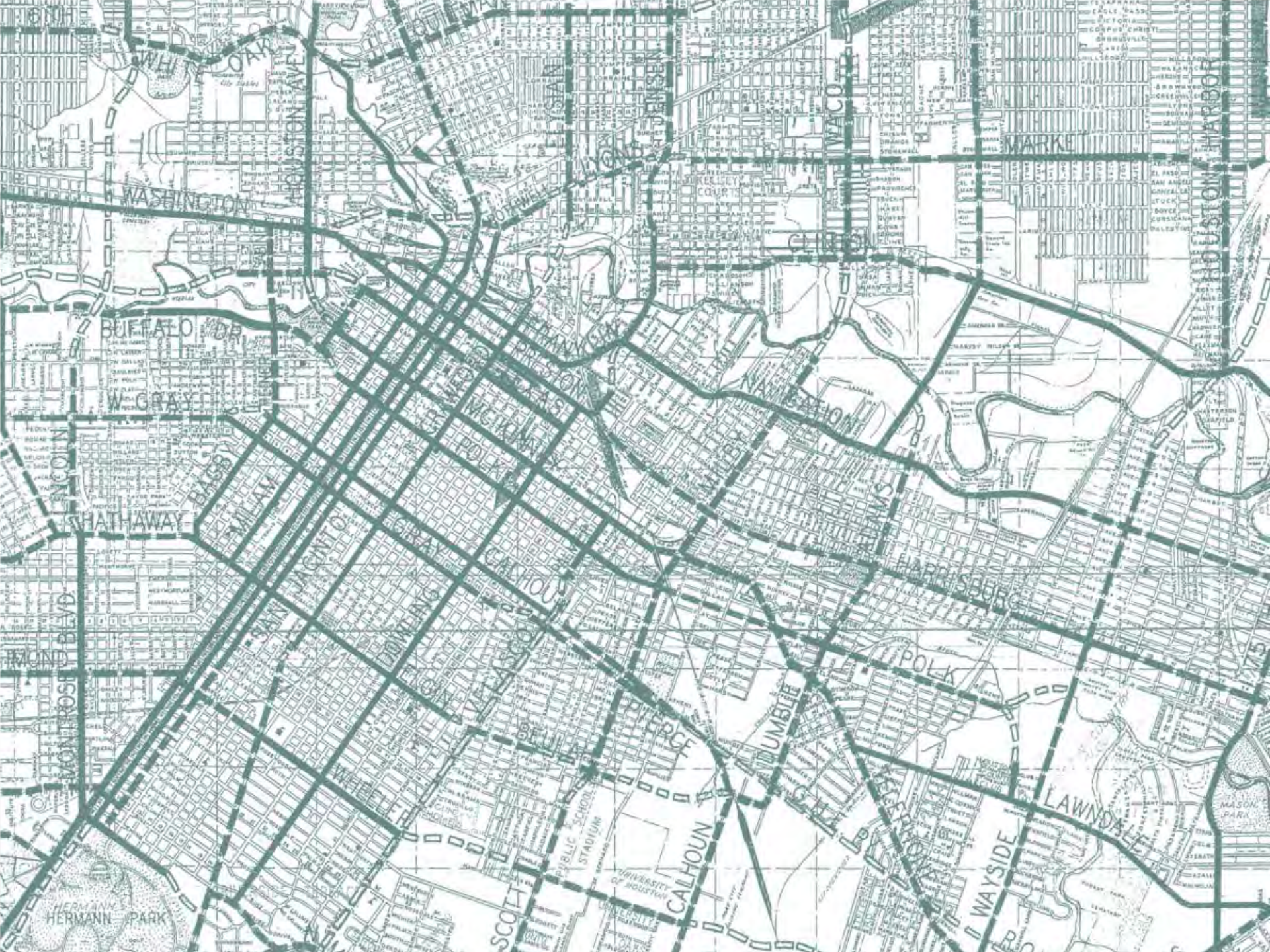


Figure 2.10 Major Thoroughfare Roadways and Traffic Counts





East End

MOBILITY STUDY

Discussion of Mobility Improvement Opportunities

March 2012

Prepared for:





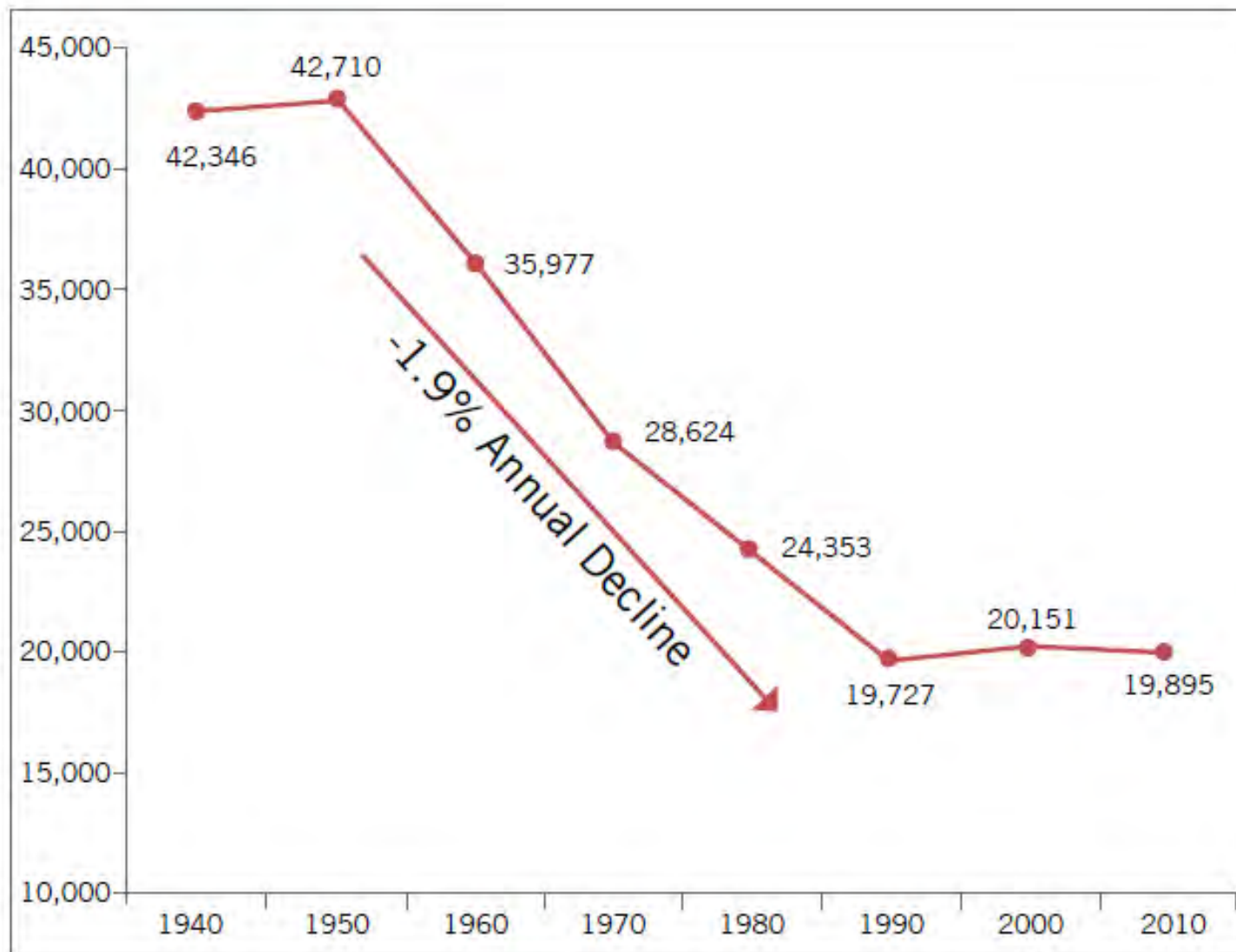


Figure 1.3 1940-2010 Historical Population Trends - Study Area from US Census

Using HCM Planning Level methodology. . .

Travel Demand Model -
2011 Level of Service Estimates



Travel Demand Model -
2035 Scenario 2: Master Plan / TOD
Level of Service Estimates





THE ORIGINAL
Nirala's
NAVIGATION

THIRTY SEVEN TWO ORIGINAL MONKEYS
AND TELL IT TO

219580



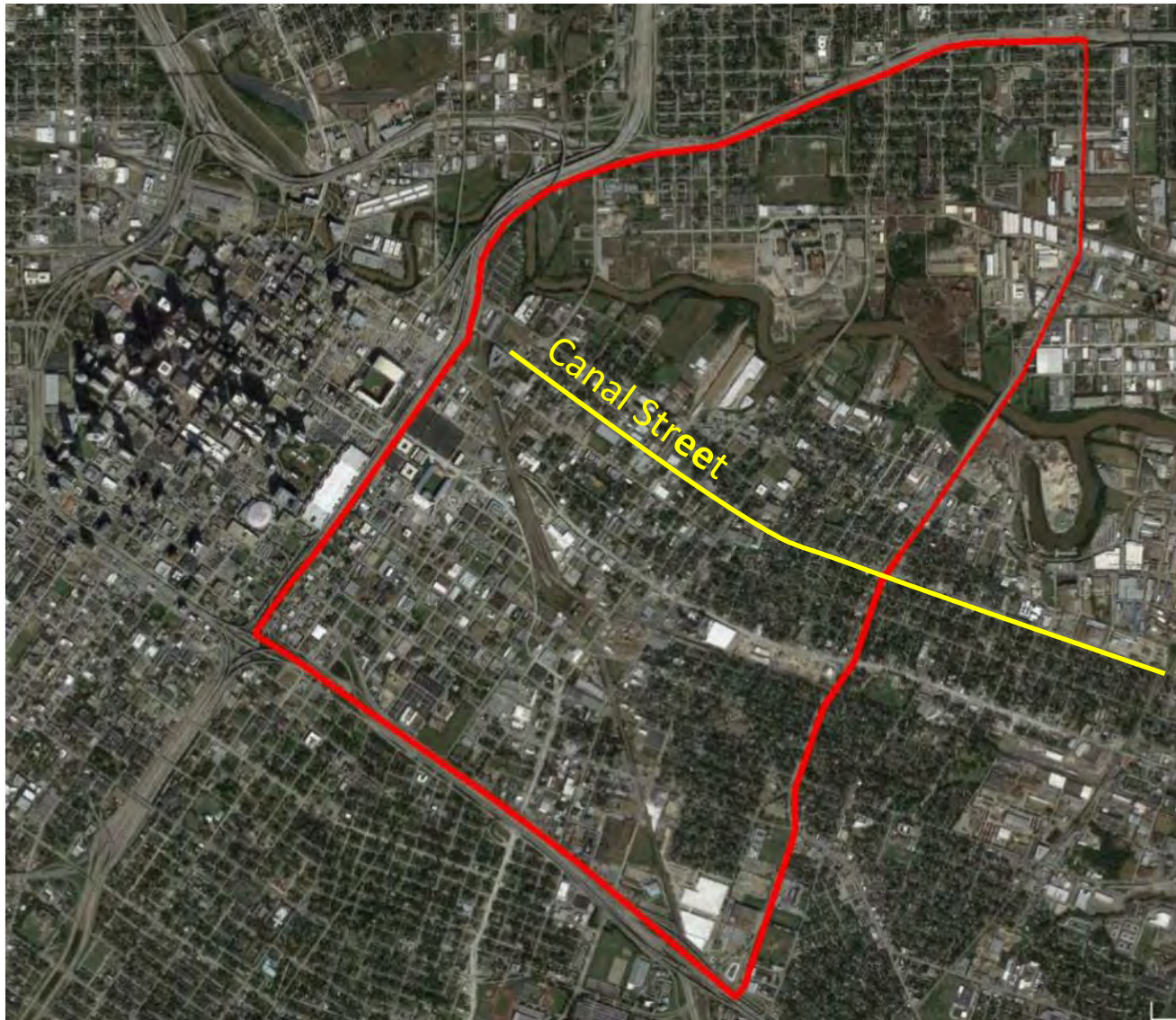
ESTABLISHED
2013

BICYCLE EXPO

SPONSORED BY

TRAFFIC ENGINEERS, INC.
INNOVATIVE TRANSPORTATION SOLUTIONS

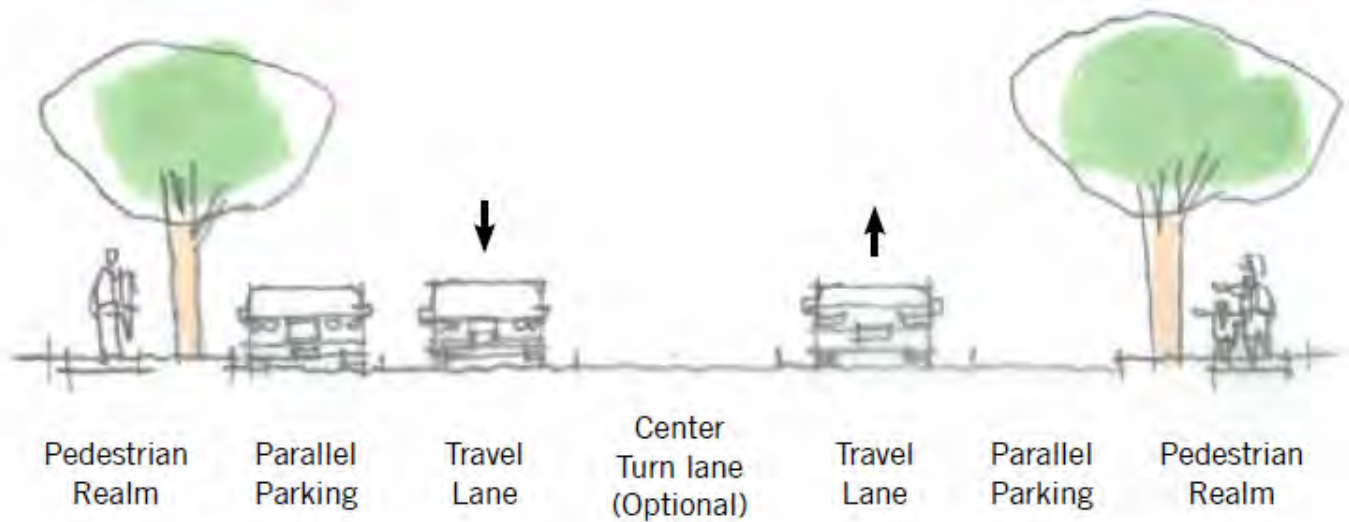








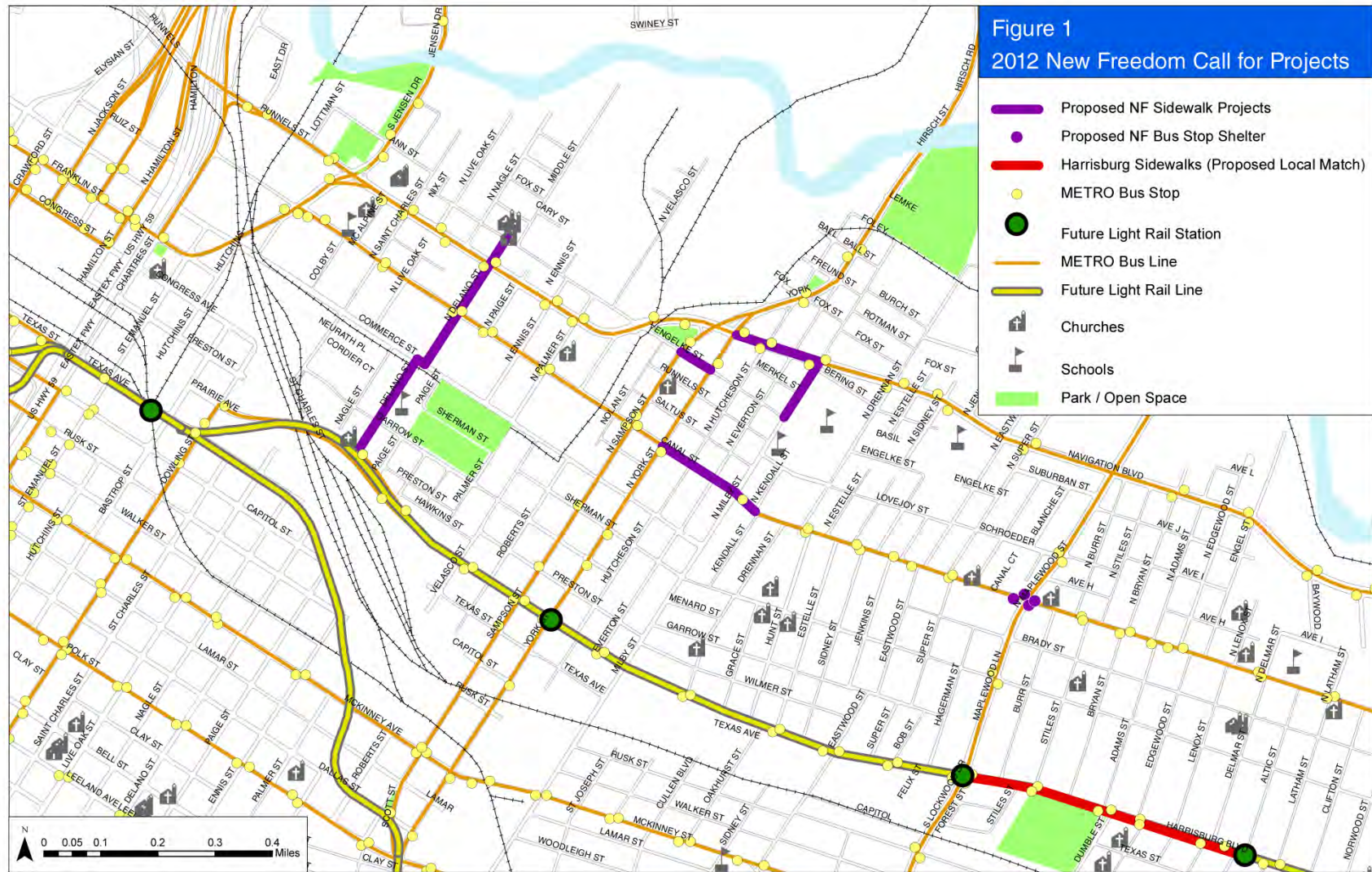


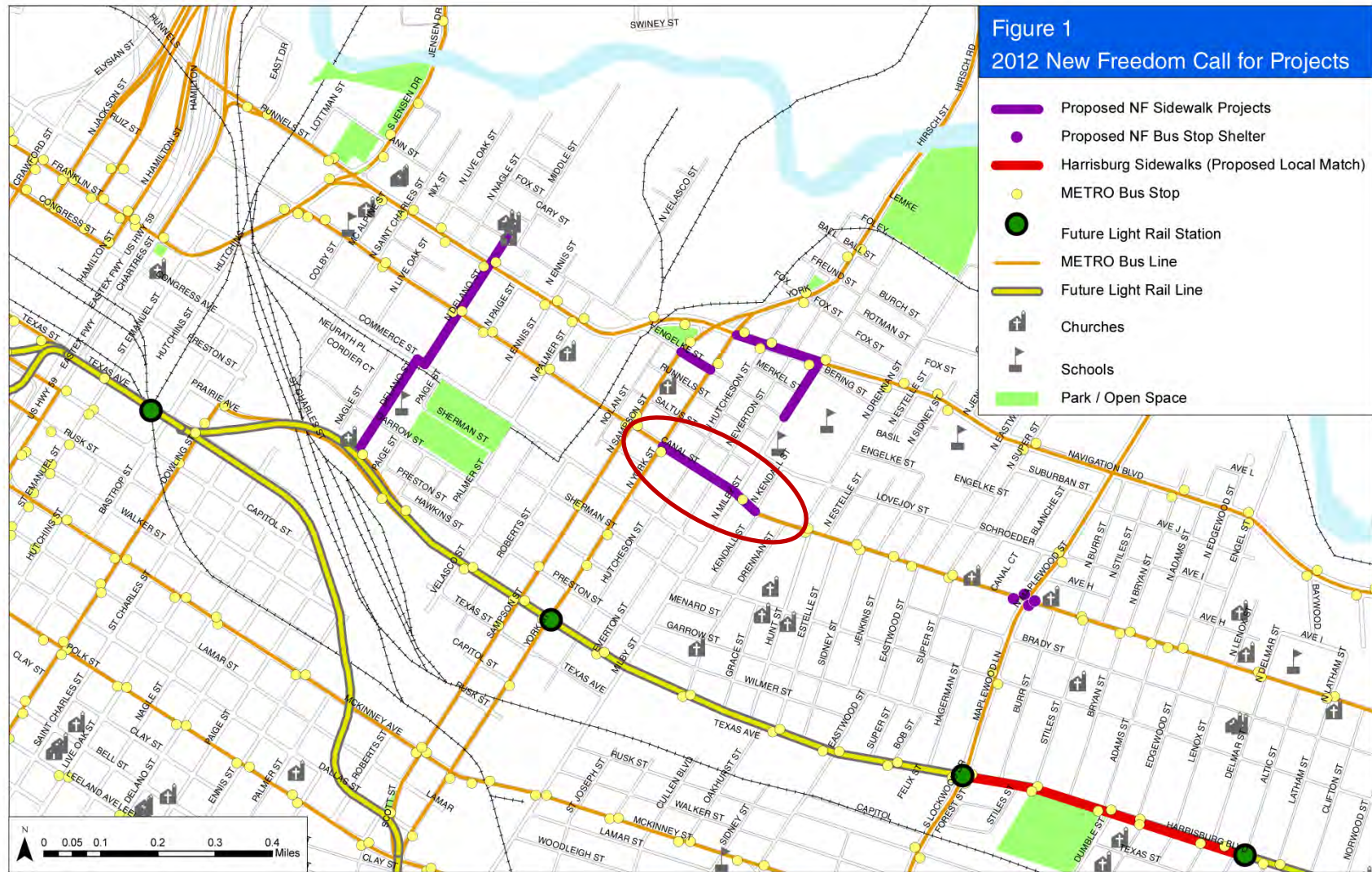


Canal Street (65' ROW): two or three-lane roadway with parallel on-street parking to support increases commercial development expected on the corridor.

The Challenges:

- Challenge 1: Planning
- Challenge 2: Design

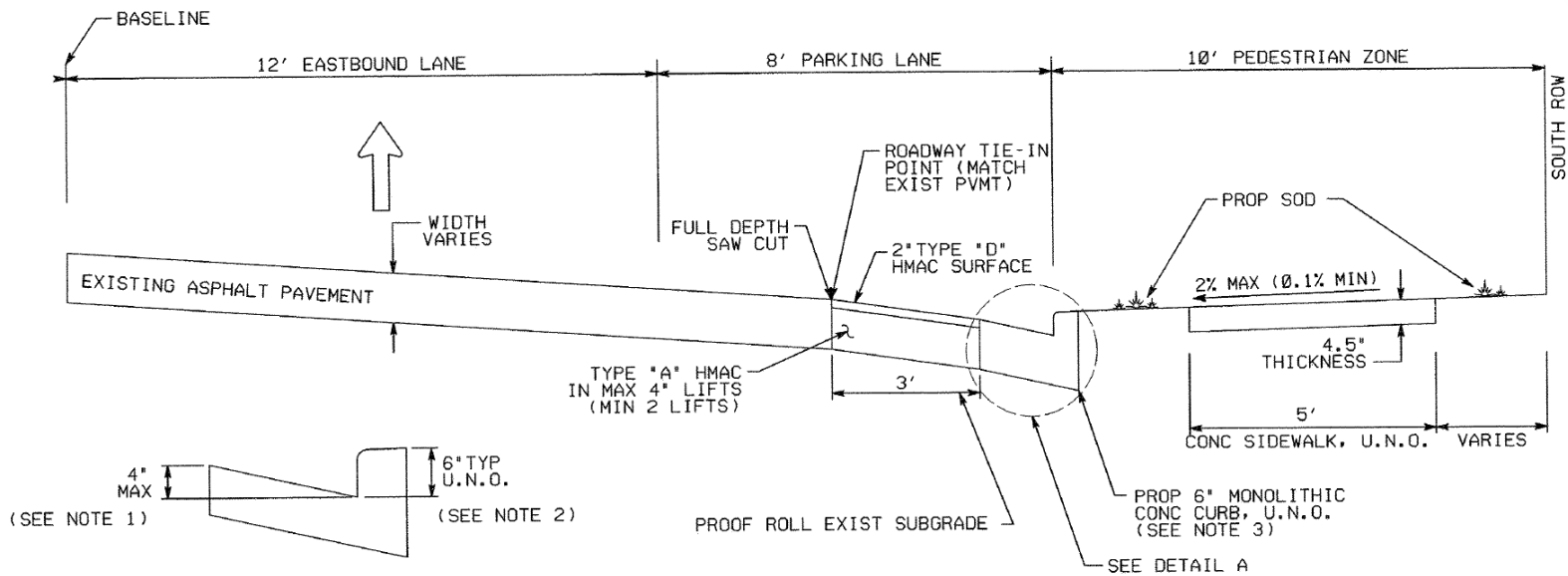




Challenge 3: Design

- Sub-challenge: Canal





DETAIL A

TYPICAL SECTION SOUTH SIDE
(NORTH SIDE MIRROR IMAGE)

SCALE: 1"=2'

1

C2.003











Challenge 3: Design

- Sub-challenge: Canal
- Sub-challenge: Canal at Hutcheson



19 TASHNEK ST





06 09 2014

Drainage is expensive

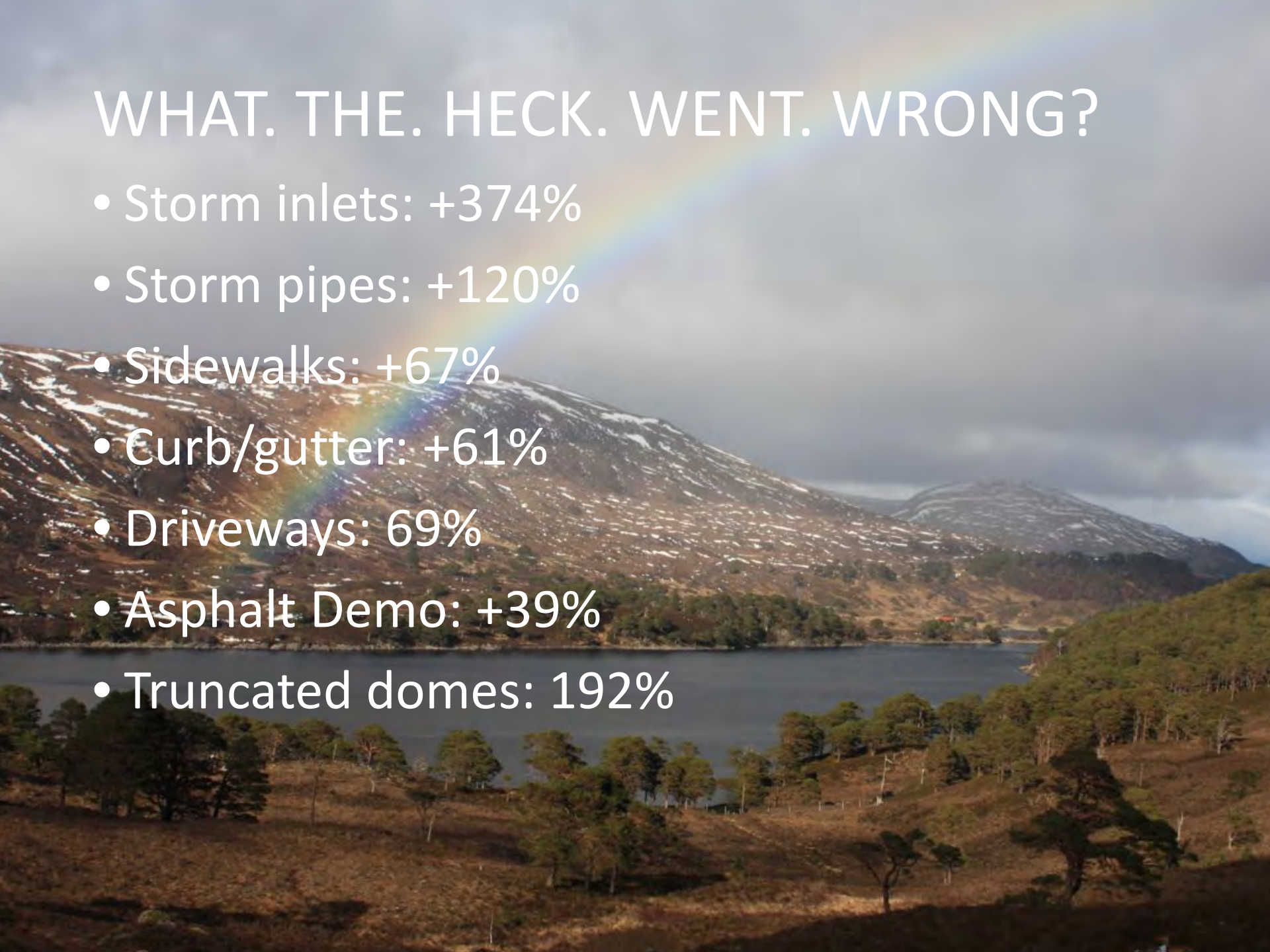
- Grant: \$620,000
- Engineer's estimate: \$613,000
- Low Bid:

\$914,000

(that's 49% higher than the estimate for
those of you who want to rub it in)

WHAT. THE. HECK. WENT. WRONG?

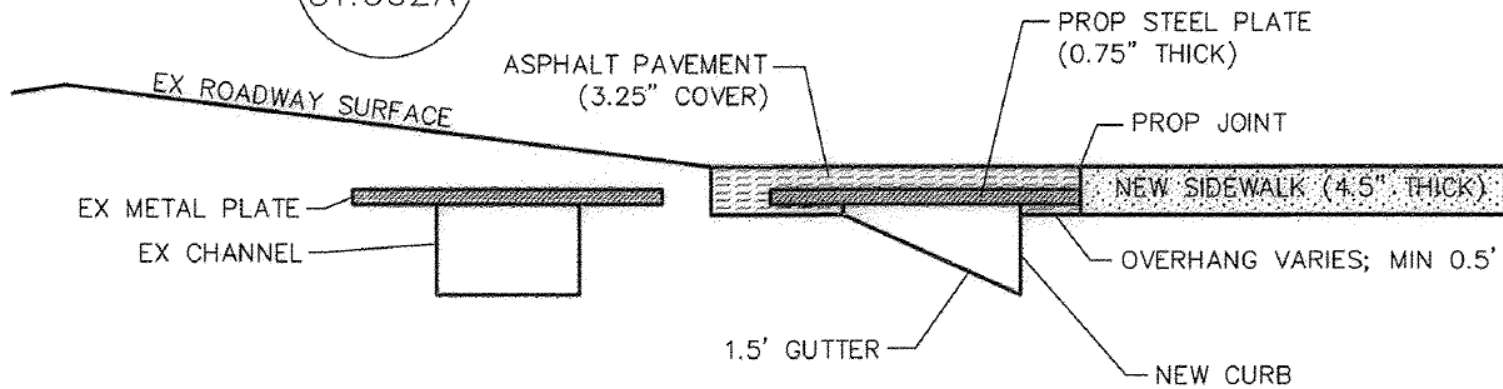
- Storm inlets: +374%
- Storm pipes: +120%
- Sidewalks: +67%
- Curb/gutter: +61%
- Driveways: 69%
- Asphalt Demo: +39%
- Truncated domes: 192%







CROSS SECTION A-A (NTS)





rough

bicycle la bicicletta bicycle