

ROUNDBOUTS / SPECIAL INTERSECTION GEOMETRIC DESIGN
2010 TexITE SUMMER MEETING
Sugarland Marriot Town Center
Saturday, June 19, 2010

THE WASHINGTON ON WESTCOTT ROUNDABOUT INITIATIVE

A MODERN ROUNDABOUT in HOUSTON



Monica Savino, RA
President, Board of Directors
WOW Roundabout Initiative, Inc.
www.wowroundabout.org

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THE WASHINGTON ON WESTCOTT ROUNDABOUT INITIATIVE, INC.

- **ORIGINS**
- **PROCESS**
- **CONSTRUCTION**
- **CONSIDERATIONS**
- **CLOSING**



FAQS

**The roundabout is known as
The WOW Roundabout**

The organization is known as “WOW”

**The Washington on Westcott Roundabout
Initiative, Inc. is a 501 (c)(3) - 1998**

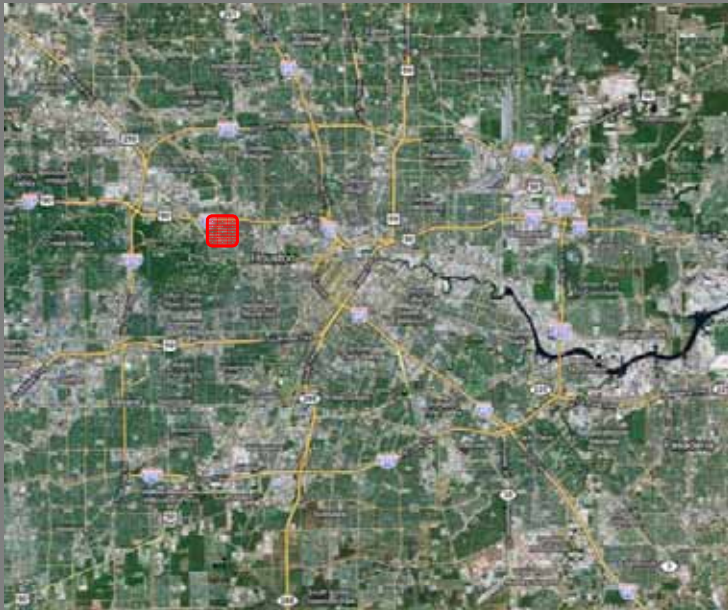
**Public Private Partnership with
the City of Houston - 2003**

Project Area is 3.62 acres

Project Cost to date \$2.2M



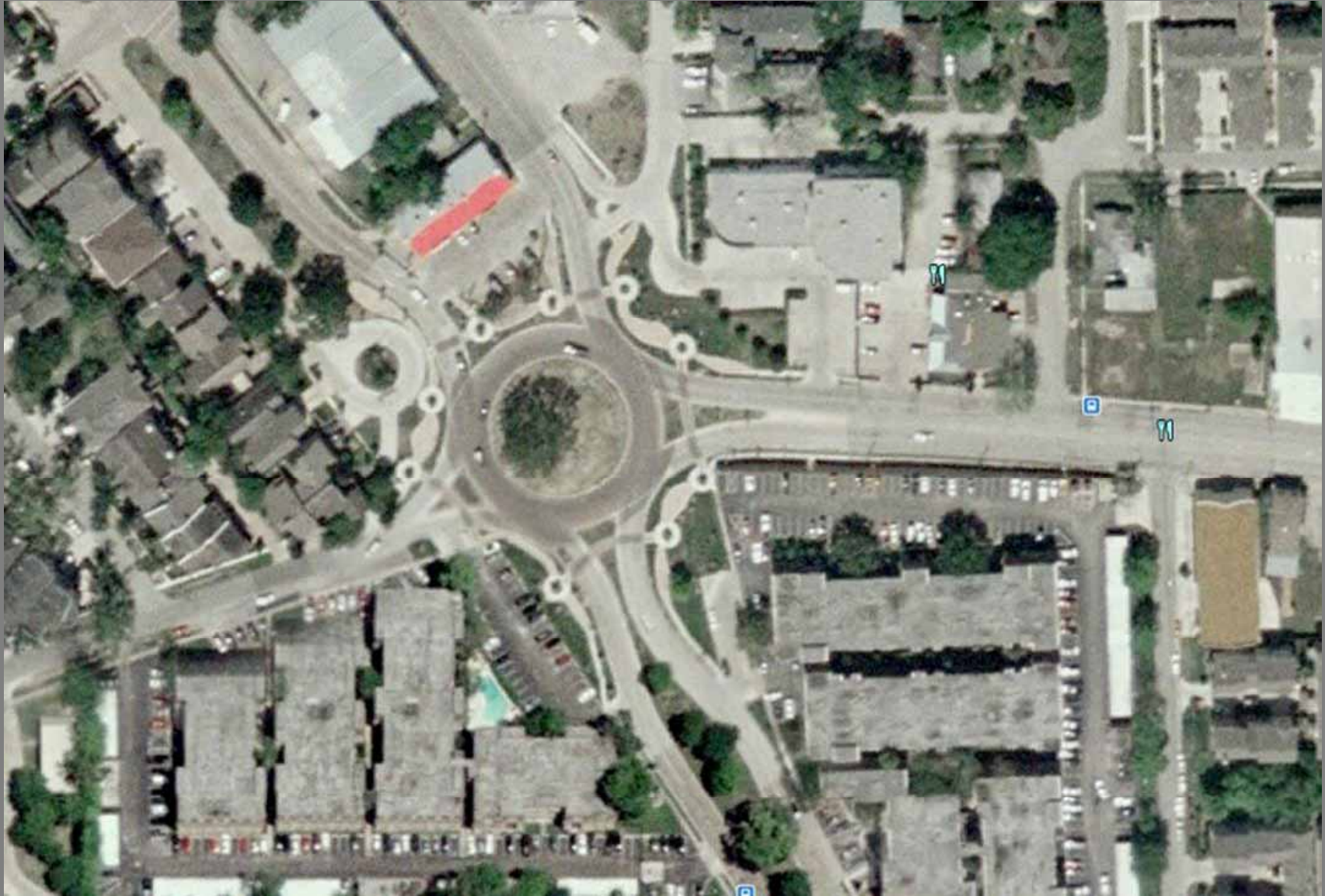
LOCATION



HOUSTON, TEXAS 77007
29°46'15.88" N 95°25'24.61" W



HOW DID WE DO THIS?





COMPONENTS

IDEAS





COMPONENTS

IDEAS



COMMUNITY





COMPONENTS

IDEAS



COMMUNITY



FUNDING





COMPONENTS

IDEAS



COMMUNITY



FUNDING



KNOW HOW





EXISTING CONDITIONS

- **INNER LOOP**
- **HISTORIC CORRIDOR**

- **PLACES – MIXED USE**

TRADITIONAL + RE-DEVELOPED NEIGHBORHOODS

COMMERCIAL- INDUSTRIAL PROPERTIES

ELEMENTARY SCHOOL

MEMORIAL PARK

BAYOU BEND – MFA Houston

DOWNTOWN

- **CIRCULATION AND EDGES**

IH 10

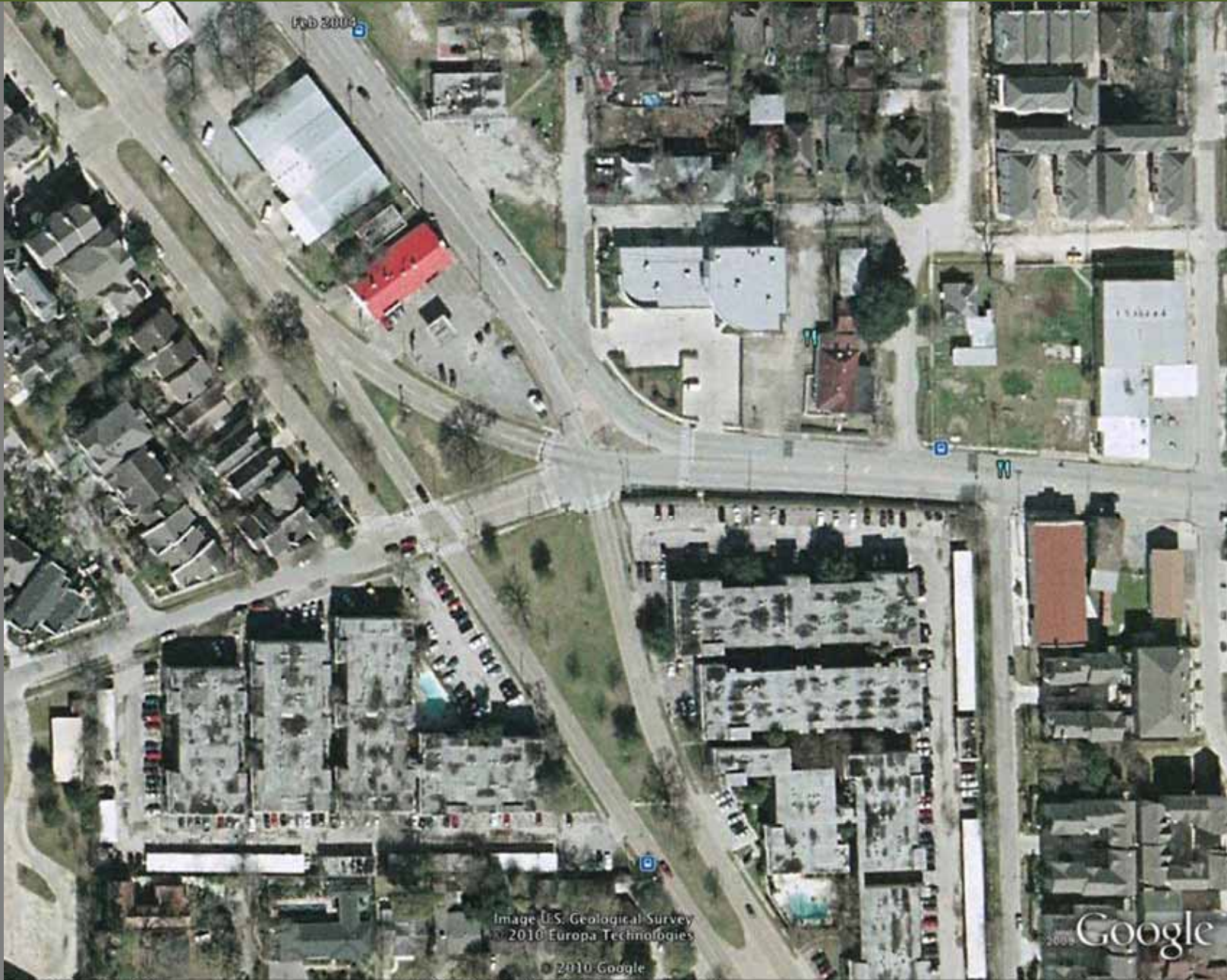
IH 610 LOOP

MEMORIAL DRIVE

BUFFALO BAYOU



EXISTING CONDITIONS





IDEAS

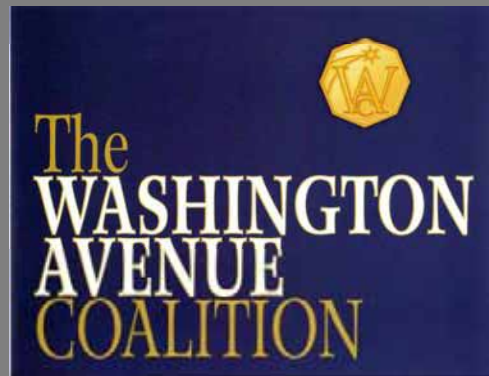
1994 – 1998

- **WASHINGTON AVENUE COALITION**

Neighborhoods along the Avenue
West End Business
Avenue CDC

- **CITY OF HOUSTON**

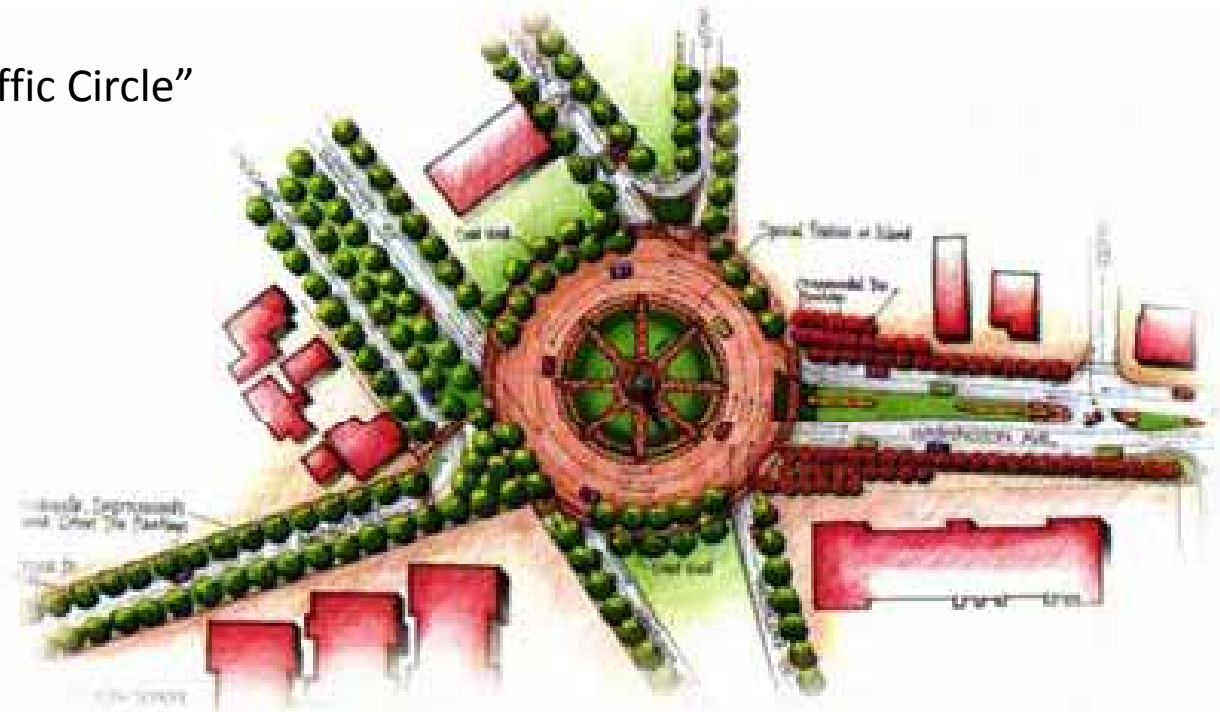
Mayor's office invites collaboration with EDI Architecture
and CoH Planning + Development





IDEAS

“A Charming Traffic Circle”



The Washington Avenue Coalition Concept



FUNDING + KNOW HOW

1998 – 2003

- **WOW**

- Chartered as 501(c)(3)

- Representation from four neighborhoods

- Representation from Memorial Elementary School

- Representation from neighborhood businesses

- **WOW - PRIVATE FUNDING**

- Executive Director

- Project Development

- Community Process

- **CITY of HOUSTON – PUBLIC FUNDING**

- Feasibility Study - \$25K

- CIP 2002 – Design \$500K



WOW CRITERIA

- **TRAFFIC CALMING DEVICE**
- **CONTEXT SENSITIVE**
- **MULTI-MODAL**
- **INCREASE WALKABILITY**
- **REINFORCE PROXIMITY TO MEMORIAL PARK**
- **GATEWAY TO HISTORIC WASHINGTON AVE.**
- **PRESERVE THE MAGNIFICENT OAK TREE**



COMMUNITY





COMMUNITY



SCULPTURE / PUBLIC ART OVERLAY
VIEW WEST FROM WASHINGTON AVENUE
ALTERNATIVE 3
**WASHINGTON ON WESTCOTT
ROUNDAABOUT**

CONCEPTUAL RENDERING OF ROUNDABOUT,
PLANTING AND SCULPTURE, AND THE SURROUNDING
LANDSCAPE AND RETAINMENT.



01001.001

AUGUST 4, 2002





SCOPE OF WORK

- **CITY OF HOUSTON**

ROADWAY DESIGN AND ENGINEERING

ROAD WAY CONSTRUCTION

INFRASTRUCTURE RELOCATION COORDINATION

ROAD CLOSURES AND TRAFFIC CONTROL

- **WOW ROUNDABOUT INITIATIVE**

LANDSCAPE ARCHITECT + DESIGN

PUBLIC ART SCULPTURES

ROADWAY PAVERS + SIDEWALK MATERIAL

TREE AND SHRUB PLANTING

BENCHES + TRASH RECEPTACLES

NEIGHBORHOOD AND DONOR WALLS

LANDSCAPE IRRIGATION

SIDEWALK AND LANDSCAPE ILLUMINATION



FUNDING + KNOW HOW

2003

- **PUBLIC PRIVATE PARTNERSHIP**

City of Houston Ordinance

- **WOW - PRIVATE FUNDING**

Improvements

- **WOW – DESIGN RFP AND SELECTION PROCESS**

Landscape Architect – KEIJI ASAKURA

Artist (Public Art) –TIM GLOVER

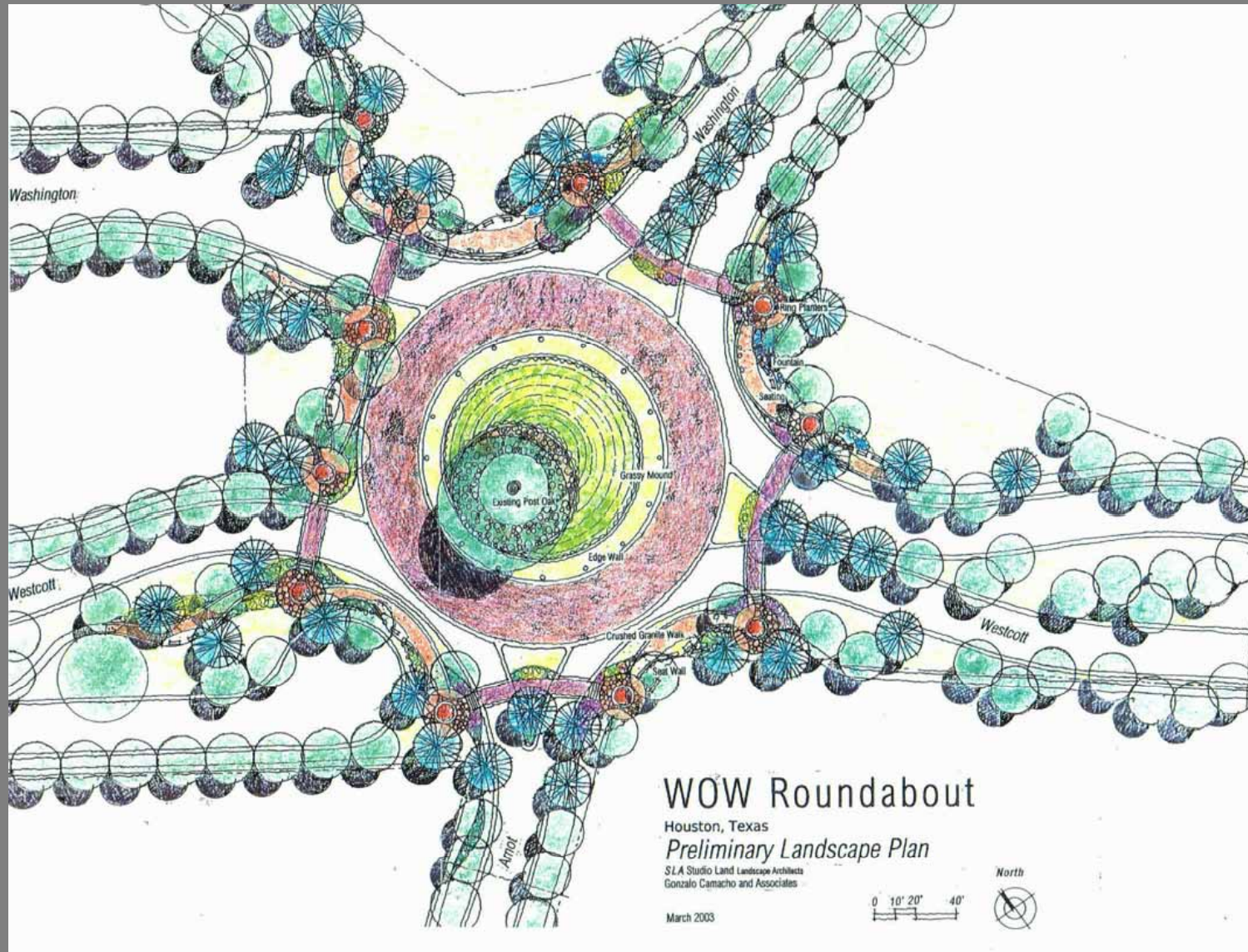
- **CITY OF HOUSTON – PUBLIC FUNDING**

RFP for GC

CIP 2003 – Construction \$1M

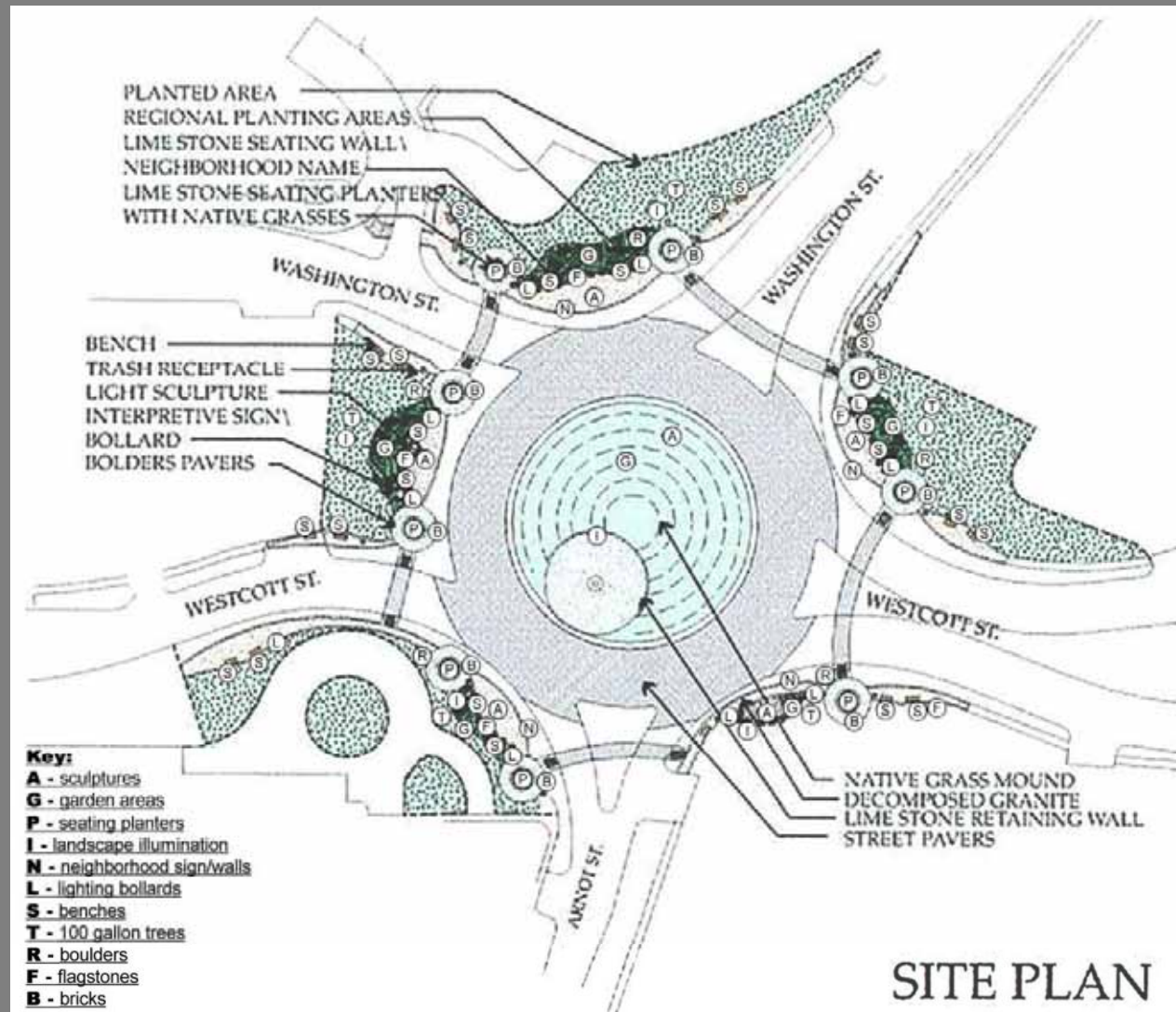


CONCEPT





CONCEPT





PUBLIC ART





COMPONENTS IN PLACE

IDEAS



COMMUNITY



FUNDING



KNOW HOW

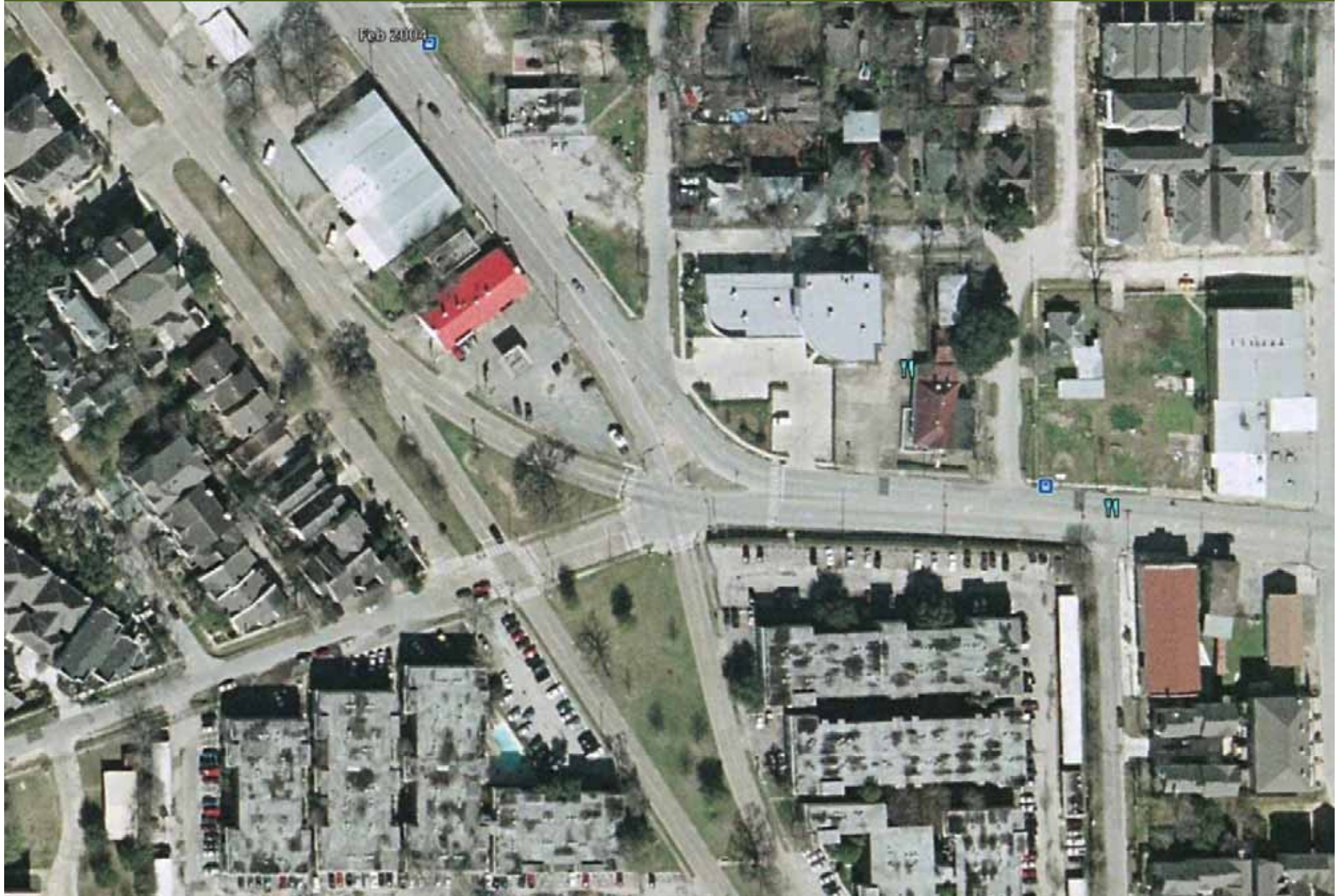


DECEMBER 2003





CONSTRUCTION





CONSTRUCTION

- **PHASE 1 2004 – 2006**

City of Houston roadway construction

- **PHASE 2 2006 – 2007**

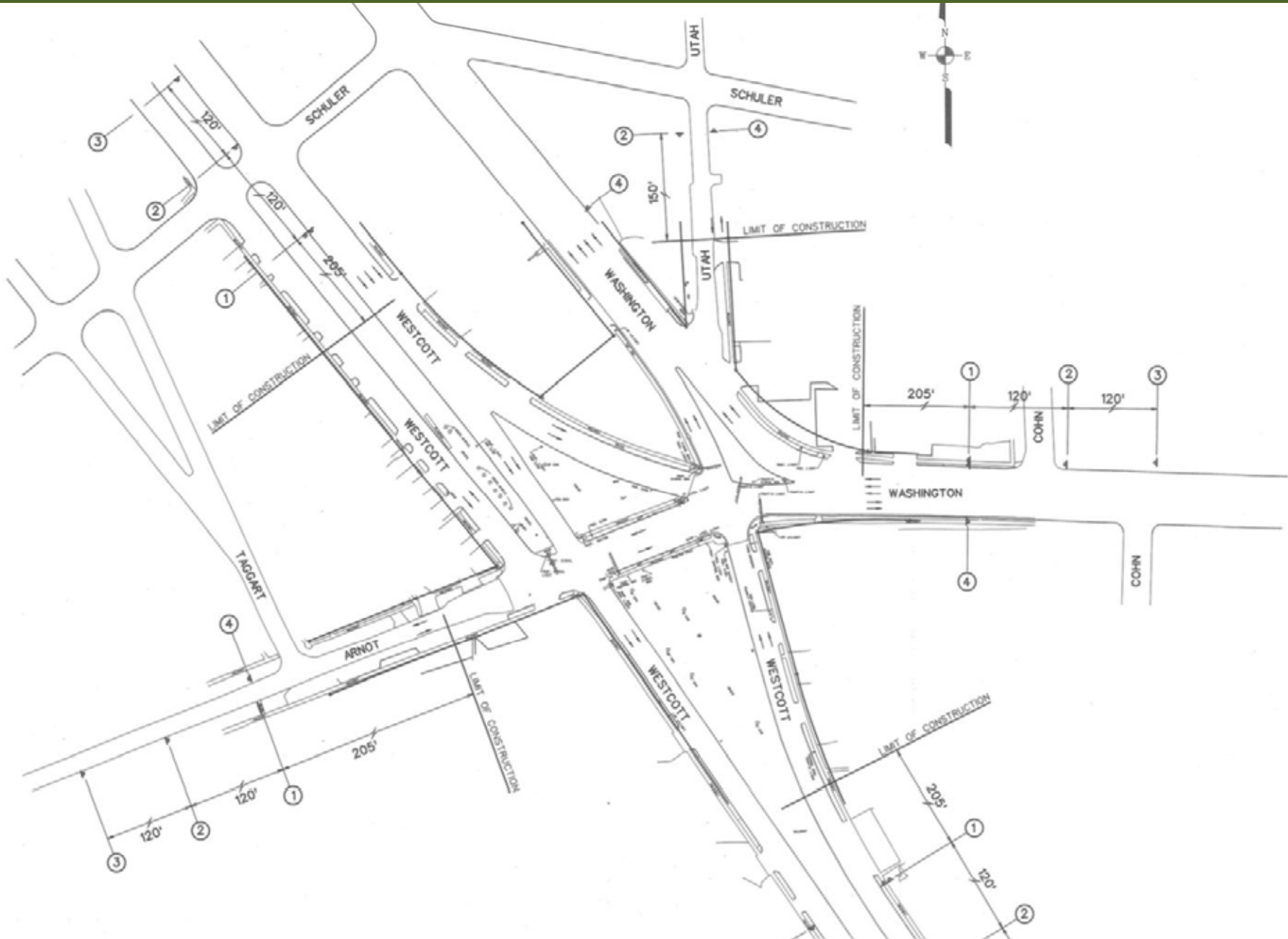
WOW landscape, hardscape, furnishings,
electrical, irrigation + infrastructure improvements

- **PHASE 3 2007 - present**

WOW Native Plantings + Public Art



PHASE 1



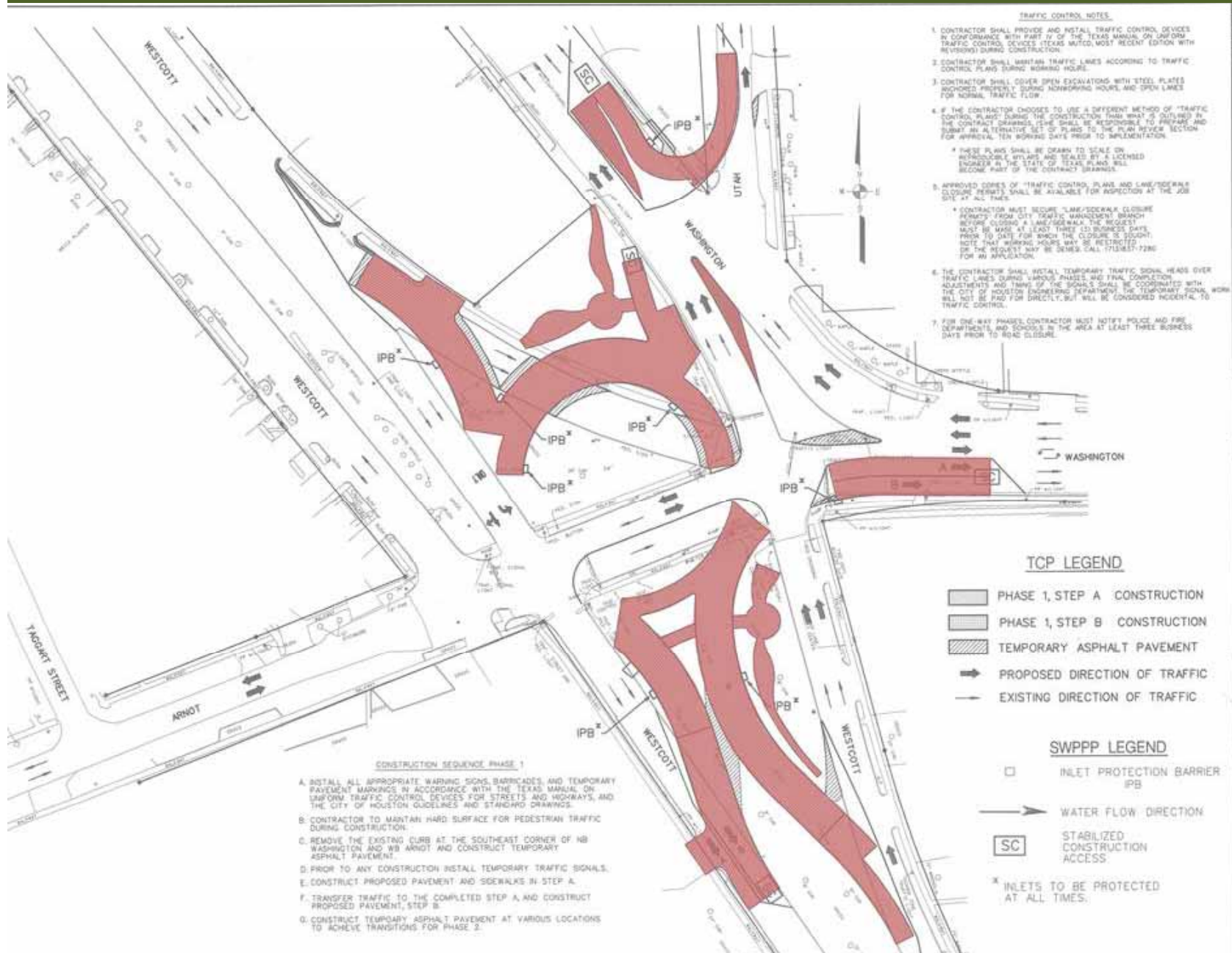
**IN ADDITION TO
EXECUTING CONSTRUCTION,
WHAT IS THE CRITICAL GOAL?**



KEEP TRAFFIC MOVING!



PHASE 1 – TRAFFIC PLAN



TRAFFIC CONTROL NOTES

1. CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART IV OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TEXAS MUTCD) MOST RECENT EDITION WITH REVISIONS DURING CONSTRUCTION.
2. CONTRACTOR SHALL MAINTAIN TRAFFIC LINES ACCORDING TO TRAFFIC CONTROL PLANS DURING WORKING HOURS.
3. CONTRACTOR SHALL COVER OPEN EXCAVATIONS WITH STEEL PLATES ANCHORED PROPERLY DURING NONWORKING HOURS AND OPEN Lanes FOR NORMAL TRAFFIC FLOW.
4. IF THE CONTRACTOR CHOOSES TO USE A DIFFERENT METHOD OF "TRAFFIC CONTROL PLANS" DURING THE CONSTRUCTION THAN WHAT IS OUTLINED IN THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE TO PREPARE AND SUBMIT AN ALTERNATIVE SET OF PLANS TO THE PLAN REVIEW SECTION FOR APPROVAL TEN WORKING DAYS PRIOR TO IMPLEMENTATION.
 - * THESE PLANS SHALL BE DRAWN TO SCALE ON IRREVERSIBLE STYPS AND SEALED BY A LICENSED ENGINEER IN THE STATE OF TEXAS AND WILL BECOME PART OF THE CONTRACT DRAWINGS.
5. APPROVED COPIES OF "TRAFFIC CONTROL PLANS AND LANE/SIDEWALK CLOSURE PERMITS" SHALL BE AVAILABLE FOR INSPECTION AT THE JOB SITE AT ALL TIMES.
 - * CONTRACTOR MUST SECURE "LANE/SIDEWALK CLOSURE PERMITS" FROM CITY TRAFFIC MANAGEMENT BRANCH BEFORE CLOSING A LANE/SIDEWALK. THE REQUEST MUST BE MADE AT LEAST THREE (3) BUSINESS DAYS PRIOR TO DATE FOR WHICH THE CLOSURE IS REQUESTED. NOTE THAT WORKING HOURS MAY BE RESTRICTED OR THE REQUEST MAY BE DENIED. CALL (713) 857-7280 FOR AN APPLICATION.
6. THE CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC SIGNALS OVER TRAFFIC LINES DURING VARIOUS PHASES AND FINAL COMPLETION. ADJUSTMENTS AND TUNING OF THE SIGNALS SHALL BE COORDINATED WITH THE CITY OF HOUSTON ENGINEERING DEPARTMENT. THE TEMPORARY SIGNAL WORK WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL.
7. FOR ONE-WAY PHASES, CONTRACTOR MUST NOTIFY POLICE AND FIRE DEPARTMENTS AND SCHOOLS IN THE AREA AT LEAST THREE BUSINESS DAYS PRIOR TO ROAD CLOSURE.

TCP LEGEND

- PHASE 1, STEP A CONSTRUCTION
- PHASE 1, STEP B CONSTRUCTION
- TEMPORARY ASPHALT PAVEMENT
- PROPOSED DIRECTION OF TRAFFIC
- EXISTING DIRECTION OF TRAFFIC

SWPPP LEGEND

- INLET PROTECTION BARRIER (IPB)
- WATER FLOW DIRECTION
- STABILIZED CONSTRUCTION ACCESS (SC)

* INLETS TO BE PROTECTED AT ALL TIMES.

REV NO	DESCRIPTION	APPROVED BY

10/01/20
CONTRACTOR TO NOTIFY UTILITY COORDINATING COMMITTEE AT LEAST 48 HOURS PRIOR TO COMMENCING ANY CONSTRUCTION IN STREET R.O.W. OR EASEMENTS (713) 225-4567

PRIVATE UTILITY LINES SHOWN

N/A
CENTER POINT ENERGY ENTER

N/A
SIC VALID FOR ONE YEAR
GENERAL "N" FOR EXISTING UTILITY LINES
N/A

N/A
CENTER POINT ENERGY
HOUSTON ELECTRIC, LLC
Specializing in the design and construction of power lines
Call for the best bid

TABLE COMPANY

LC
Landscape Consultants Inc.
10000 Katy Road
Suite 100
Houston, TX 77054
713-225-4567
10.1.0

SURVEYED BY:
MOS SURVEYING, INC.
PB NO. P-5020

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WASHINGTON AT WESTCOTT
INTERSECTION PROJECT

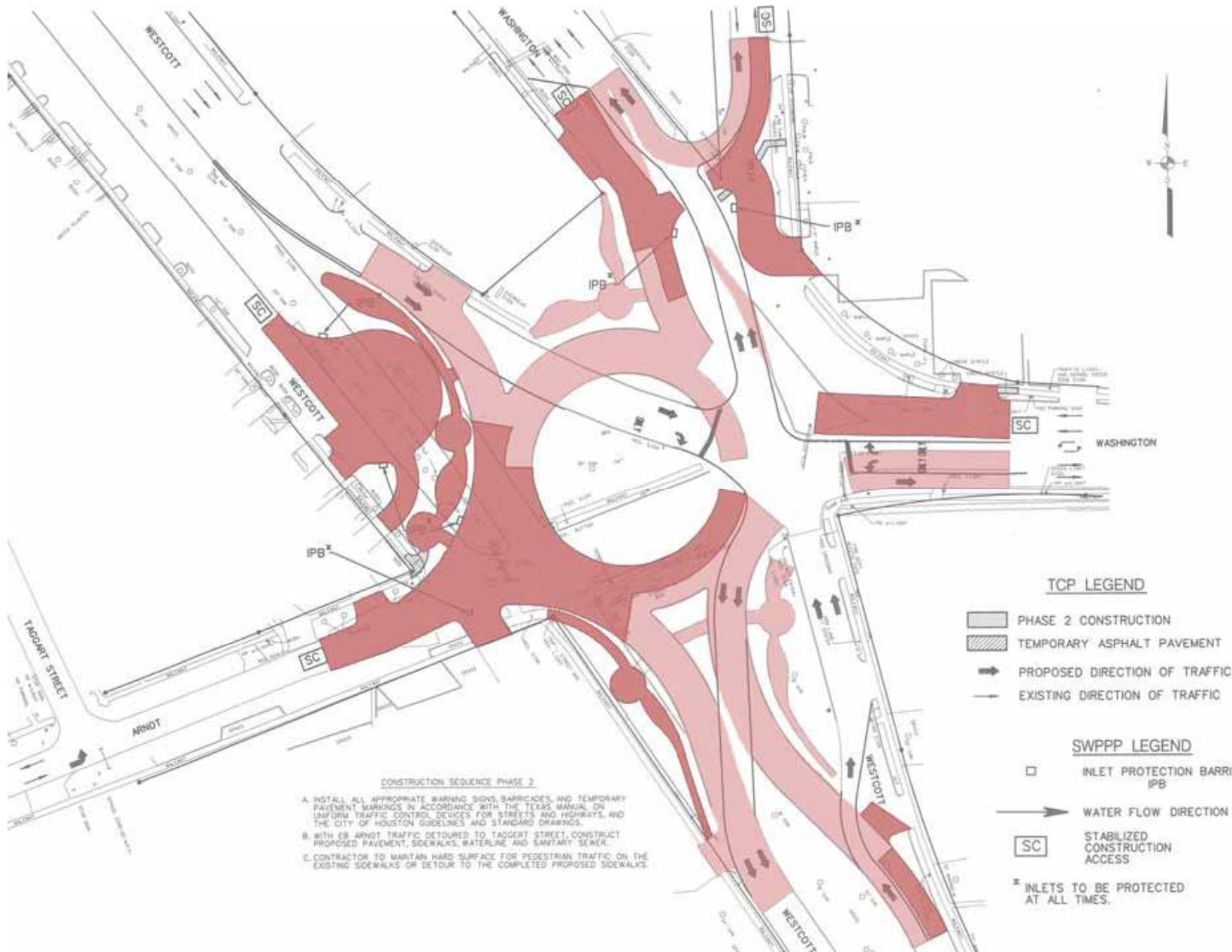
CONSTRUCTION SEQUENCE & SW3
PHASE 1

FILE NO. 389002
GPS NO. N-0741-01-3
DRAWING SCALE
1" = 30'
CITY OF HOUSTON PM
MICHELLE RANDOLP, P.E.





PHASE 1 – TRAFFIC PLAN



TCP LEGEND

- PHASE 2 CONSTRUCTION
- TEMPORARY ASPHALT PAVEMENT
- PROPOSED DIRECTION OF TRAFFIC
- EXISTING DIRECTION OF TRAFFIC

SWPPP LEGEND

- INLET PROTECTION BARRIER IPB
- WATER FLOW DIRECTION
- SC STABILIZED CONSTRUCTION ACCESS
- * INLETS TO BE PROTECTED AT ALL TIMES.

REV NO	DESCRIPTION	APPRO	DATE

NOTICE
CONTRACTOR TO NOTIFY UTILITY
COORDINATING COMMITTEE AT
AT LEAST 48 HOURS PRIOR TO
COMMENCING ANY CONSTRUCTION
IN STREET R.O.W. OR EASEMENTS
17031-223-4567

PRIVATE UTILITY LINES SHOWN

ENTER POINT ENERGY ENTER DATE

SEC VALID FOR ONE YEAR DATE

ENTER POINT ENERGY HOUSTON ELECTRIC, LLC DATE

CABLE COMPANY DATE



SURVEYED BY:
RDS SURVEYING, INC.
PB NO. P-5120

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WASHINGTON AT WESTCOTT
INTERSECTION PROJECT

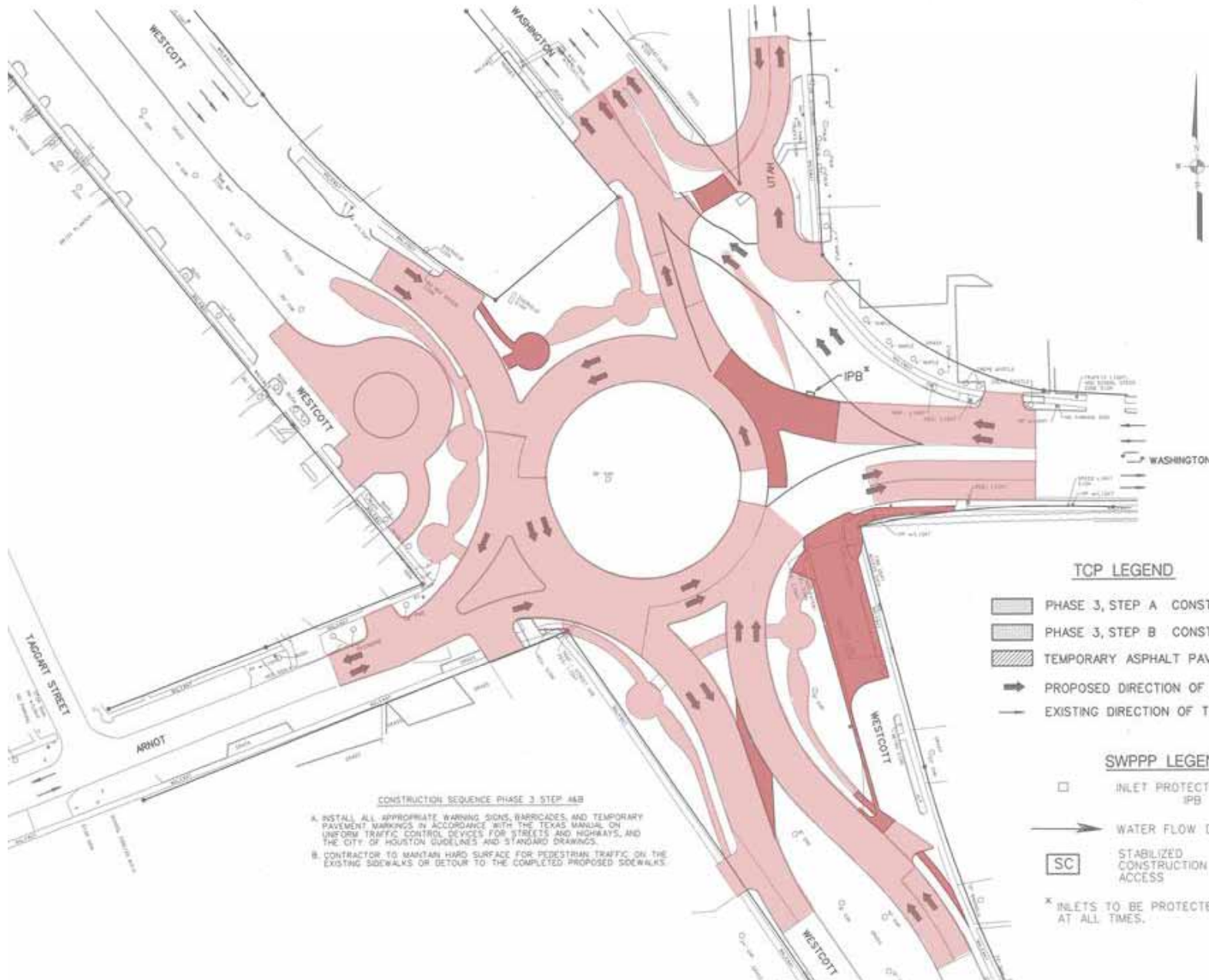
CONSTRUCTION SEQUENCE & SW3/3
PHASE 2

FILE NO. 080902
GPS NO. H-0741-01-3
DRAWING SCALE
1" = 30'
CITY OF HOUSTON PM
MICHELLE RABON, P.E.





PHASE 1 – TRAFFIC PLAN



- CONSTRUCTION SEQUENCE PHASE 3 STEP A&B
- INSTALL ALL APPROPRIATE WARNING SIGNS, BARRICADES, AND TEMPORARY PAVEMENT MARKINGS IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND THE CITY OF HOUSTON GUIDELINES AND STANDARD DRAWINGS.
 - CONTRACTOR TO MAINTAIN HARD SURFACE FOR PEDESTRIAN TRAFFIC ON THE EXISTING SIDEWALKS OR DETOUR TO THE COMPLETED PROPOSED SIDEWALKS.

TCP LEGEND

- PHASE 3, STEP A CONSTRUCTION
- PHASE 3, STEP B CONSTRUCTION
- TEMPORARY ASPHALT PAVEMENT
- PROPOSED DIRECTION OF TRAFFIC
- EXISTING DIRECTION OF TRAFFIC

SWPPP LEGEND

- INLET PROTECTION BARRIER (IPB)
- WATER FLOW DIRECTION
- STABILIZED CONSTRUCTION ACCESS (SC)

* INLETS TO BE PROTECTED AT ALL TIMES.

REV NO	DESCRIPTION	APP'D	DATE

CONTRACTOR TO NOTIFY UTILITY COORDINATING COMMITTEE AT LEAST 48 HOURS PRIOR TO COMMENCING ANY CONSTRUCTION IN STREET R.O.W. OR EASEMENTS (713) 223-4567

PRIVATE UTILITY LINES SHOWN

CENTER POINT ENERGY ENTER

SDC VALID FOR ONE YEAR (PRINTED NAME AND SIGNATURE OF UTILITY PERSONNEL)

CENTER POINT ENERGY HOUSTON ELECTRIC, LLC

CABLE COMPANY

LAURENCE CONSULTANTS INC.

DESIGNED BY: RODS SURVEYING, INC.

FILE NO. P-5120

CITY OF HOUSTON

DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WASHINGTON AT WESTCOTT INTERSECTION PROJECT

CONSTRUCTION SEQUENCE & SW3 PHASE 3 STEP A&B

FILE NO. SB0902

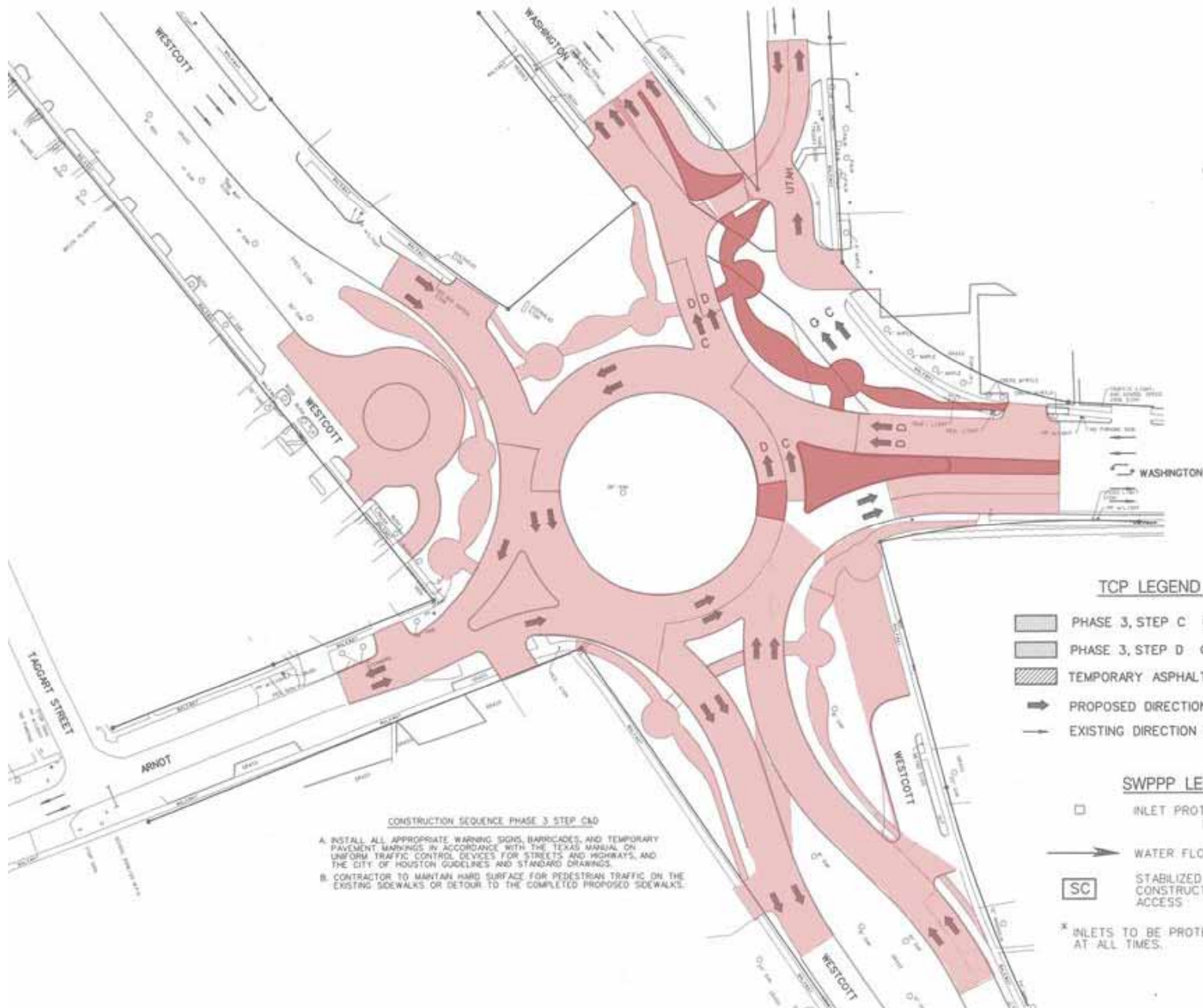
GPS NO. N-0741-01-3

DRAWING SCALE 1" = 30'

CITY OF HOUSTON PM MICHELLE RANDON, P.E.



PHASE 1 – TRAFFIC PLAN



CONSTRUCTION SEQUENCE PHASE 3 STEP C&D

A. INSTALL ALL APPROPRIATE WARNING SIGNS, BARRICADES, AND TEMPORARY PAVEMENT MARKINGS IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND THE CITY OF HOUSTON GUIDELINES AND STANDARD DRAWINGS.

B. CONTRACTOR TO MAINTAIN HARD SURFACE FOR PEDESTRIAN TRAFFIC ON THE EXISTING SIDEWALKS OR DETOUR TO THE COMPLETED PROPOSED SIDEWALKS.

TCP LEGEND

- PHASE 3, STEP C CONSTRUCTION
- PHASE 3, STEP D CONSTRUCTION
- TEMPORARY ASPHALT PAVEMENT
- PROPOSED DIRECTION OF TRAFFIC
- EXISTING DIRECTION OF TRAFFIC

SWPPP LEGEND

- INLET PROTECTION BARRIER (IPB)
- WATER FLOW DIRECTION
- STABILIZED CONSTRUCTION ACCESS (SC)
- INLETS TO BE PROTECTED AT ALL TIMES.

REV	NO	DESCRIPTION	DATE
NOTICE CONTRACTOR TO NOTIFY UTILITY COORDINATING COMMITTEE AT AT LEAST 48 HOURS PRIOR TO COMMENCING ANY CONSTRUCTION IN STREET R.O.W. OR EASEMENTS (FDJ 223-4567)			
PRIVATE UTILITY LINES SHOWN			
CENTER POINT ENERGY ENTER	N/A	DATE	
SEC VALLEY OF ONE YEAR	N/A	DATE	
CENTER POINT ENERGY HOUSTON ELECTRIC, LLC	N/A	DATE	
EXBLE COMPANY			
LAWRENCE CONSULTANTS INC.			
SURVEYED BY: ROOSE SURVEYING, INC.			
PB NO. P-500			
CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING			
WASHINGTON AT WESTCOTT INTERSECTION PROJECT			
CONSTRUCTION SEQUENCE & SW3 PHASE 3 STEP C&D			
FILE NO. 389092 G/S NO. N-0743-01-3 DRAWING SCALE 1" = 30' CITY OF HOUSTON PM MICHELLE RAMON, P.E. DATE: 01/26/20			
38662			

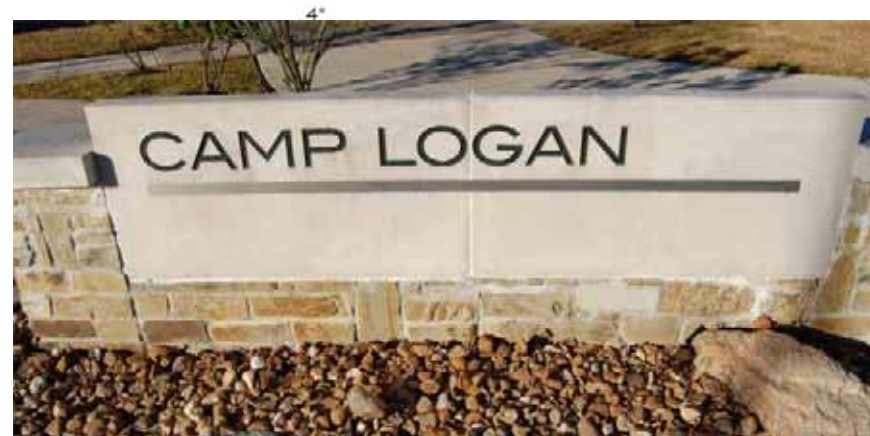
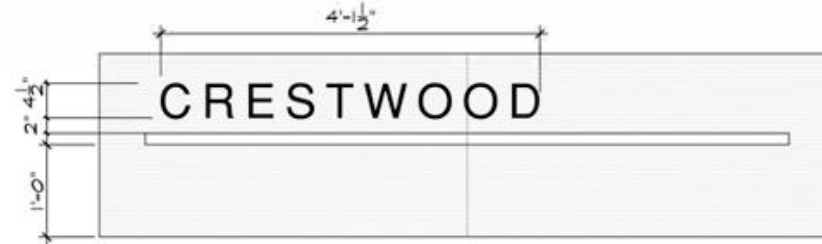
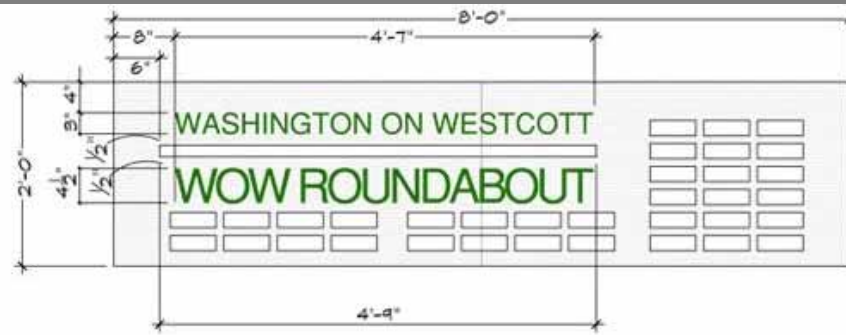
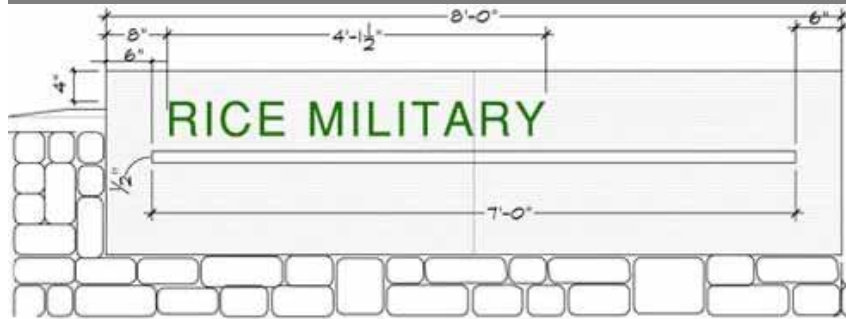


KEEP TRAFFIC MOVING





PHASE 2 – WOW IMPROVEMENTS



ELEVATION WALL
scale: 3/4" = 1'-0"

asakura robinson
asakura robinson company
3000 Richmond
Suite 420
Houston, Texas 77119
P: 713.337.5830
F: 632.201.7198
www.asakuraprofit.com

WOW
6202 WASHINGTON AVE.
HOUSTON, TX 77007

Issue Date	Description
09.14.06	ISSUE FOR F

Revision	Descriptions
Δ 00.00.00	

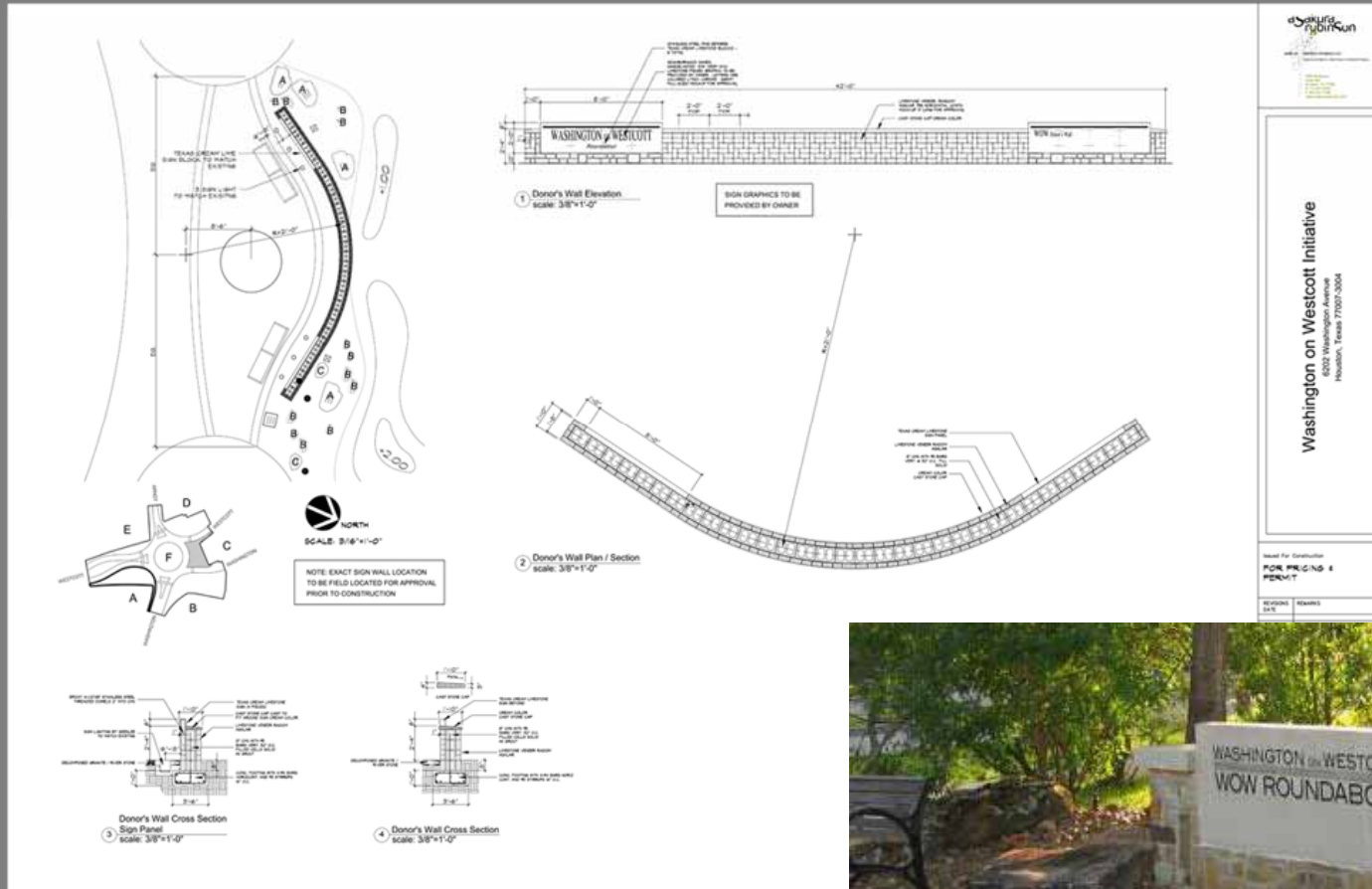
Drawn by: TT
Checked by: PC
Approved by: PC
Date: 09-14
Project No.: WOW-
Sheet Description & No.

SHEET GRAPHI

LP-00.00



PHASE 2 – WOW IMPROVEMENTS





PHASE 3 – WOW PLANTINGS + SCULPTURE





PHASE 3 – WOW PLANTINGS + SCULPTURE



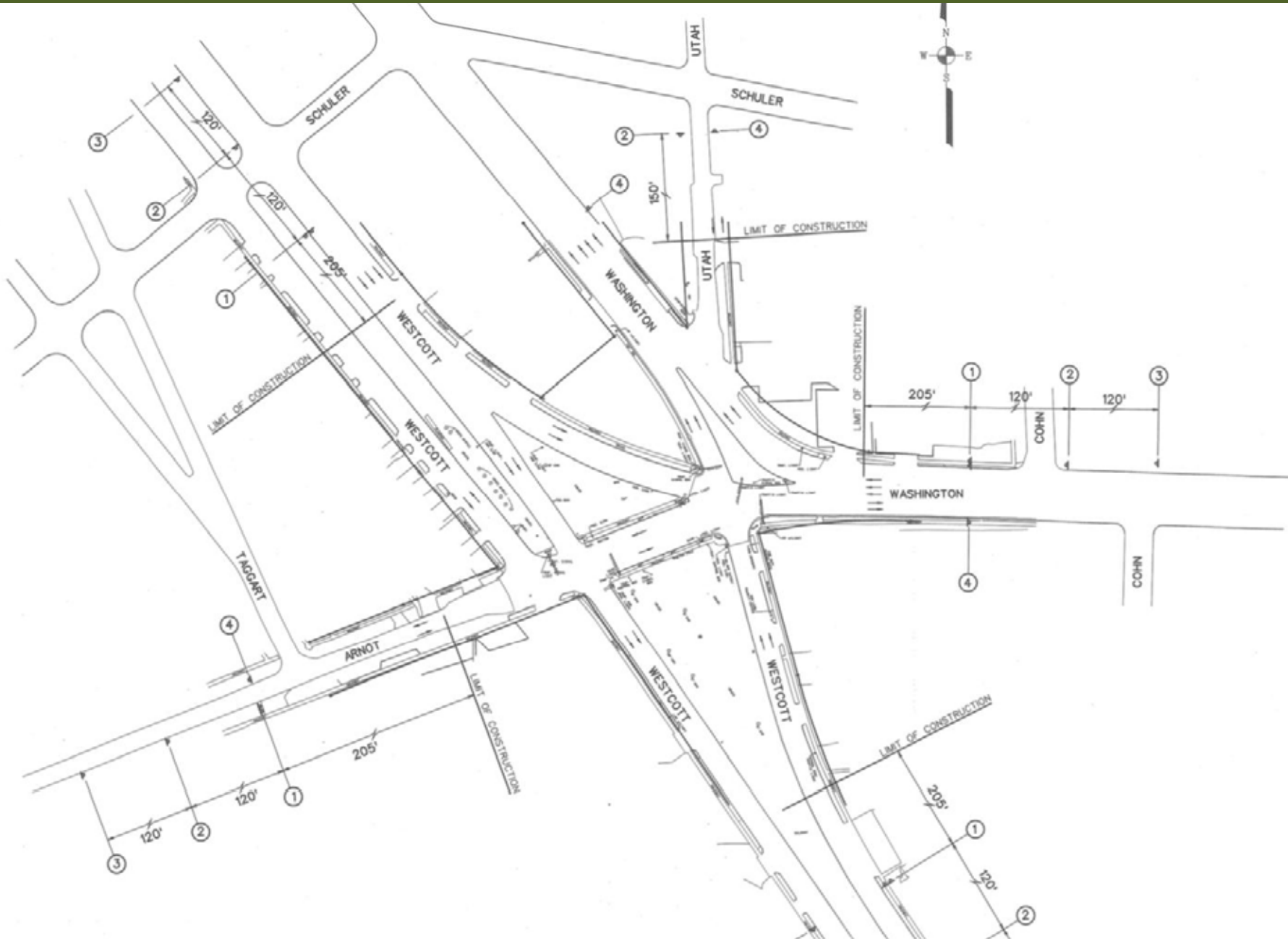


PHASE 3 – WOW PLANTINGS + SCULPTURE



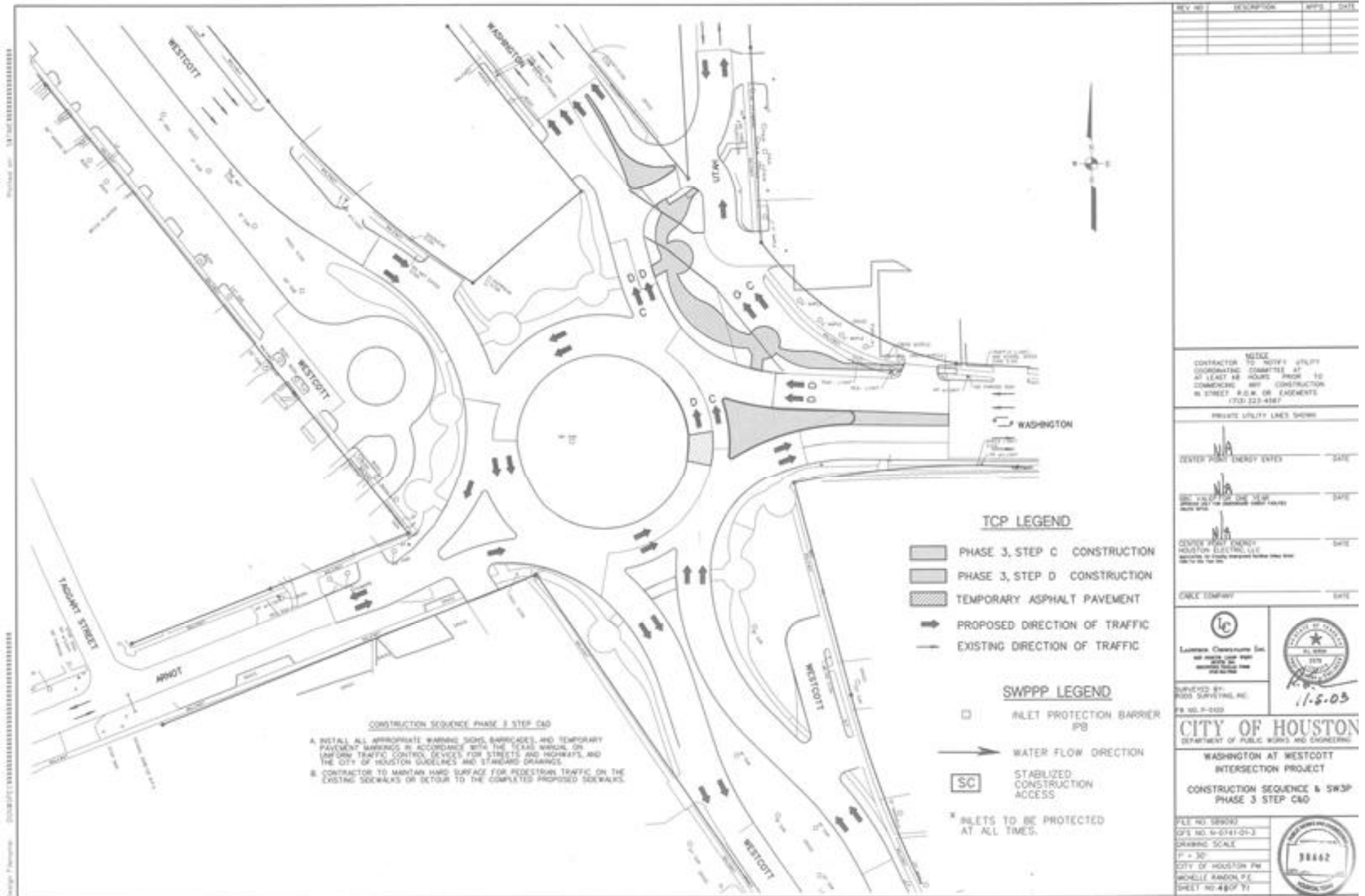


BEFORE - INTERSECTION





AFTER – THE WOW ROUNDABOUT





CONSIDERATIONS

- **DESIGN**
- **ASSETS**
- **DETAILS**
- **CONTRACT ADMINISTRATION**



CONSIDERATIONS

- **DESIGN**
 - GEOMETRY
 - APPROACHES





CONSIDERATIONS

- **ASSETS**

OPTIMIZE DESIREABLE, UNIQUE
CHARACTER AND QUALITIES





CONSIDERATIONS

- **DETAILS**
CONSTRUCTION METHODS





CONSIDERATIONS

- **CA COORDINATION**

ANTICIPATE

COMMUNICATE





CONSIDERATIONS

- **DETAILS**
 - MATERIALS
 - DESIGN
 - DURABILITY





BEFORE + AFTER





BEFORE + AFTER





COMMUNITY CREATING PLACES





THE WOW ROUNDABOUT INITIATIVE, INC.

IDEAS



COMMUNITY



FUNDING

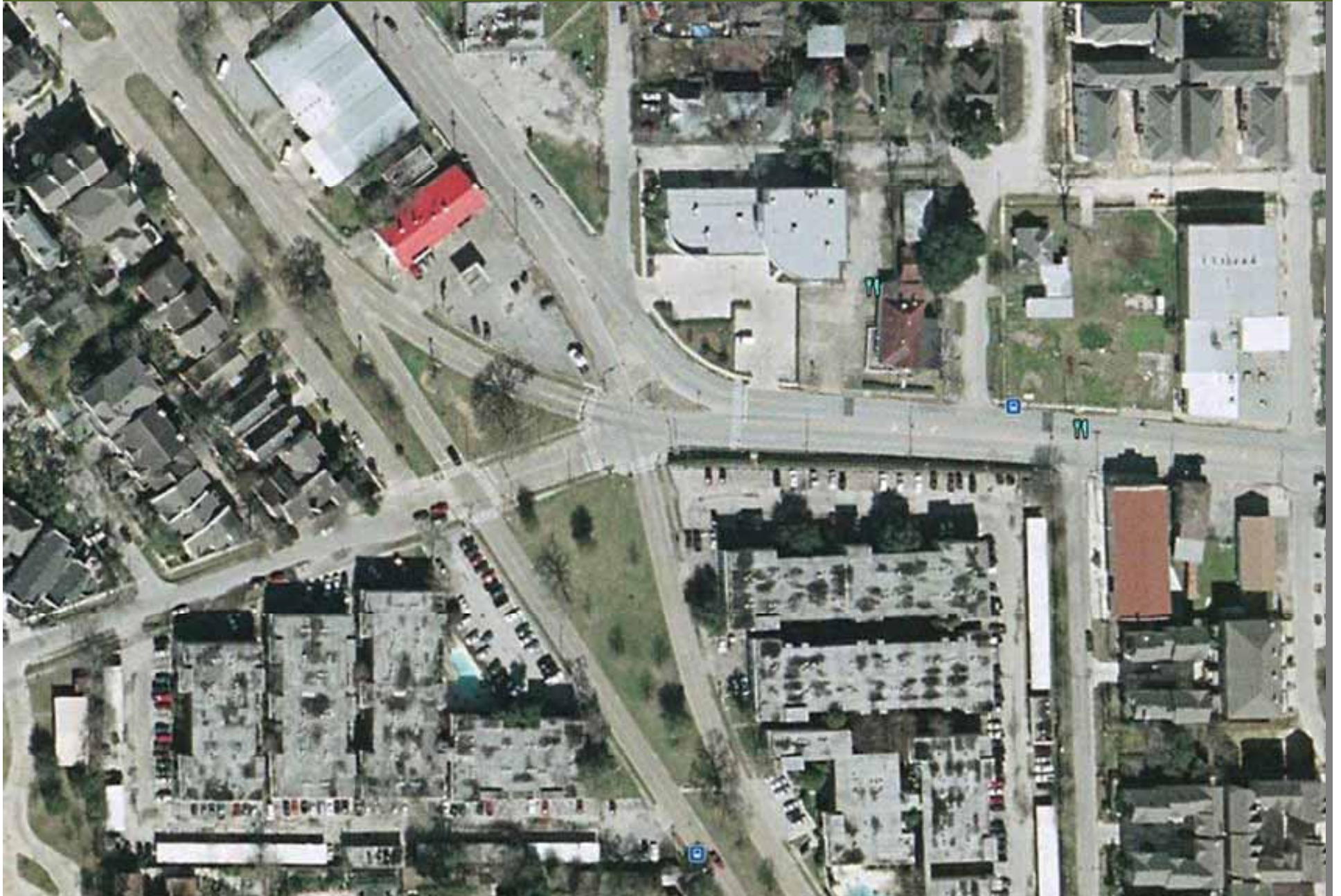


KNOW HOW



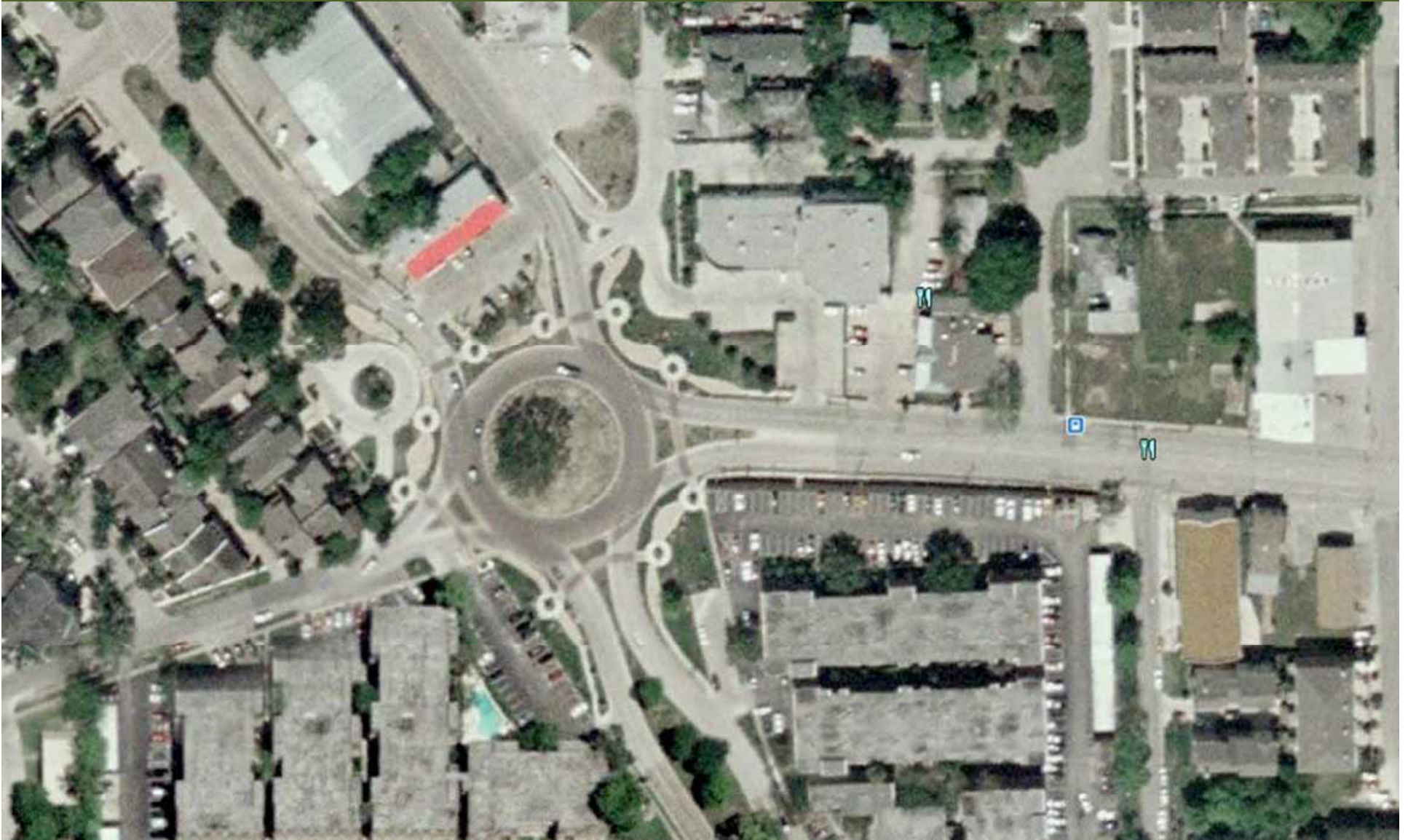


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