
O R R
TAKING UTILITY COORDINATION TO THE NEXT LEVEL
Dallas County
NCTCOG Presentation
October 30, 2014

PRESENTATION OUTLINE

GENERAL

Alberta Blair, *P.E.*

- Dallas County and Public Works Vision
- ROW Sustainability by Taking Utility Coordination

...to the next level

- Public Works Project Delivery Through Partnering
- Public Works Utility Model – USWAT/RUG

****

****

PROJECT SPECIFIC EXAMPLES & COORDINATION

Les St. John, *P.E.*

- Sustainable Utility Initiatives
  - Objectives
  - How To

****

SUSTAINABLE ROW & UTILITY COORDINATION

Carter Ferguson

- ROW & Utility Processes
- Example Projects:
  - Pleasant Run Road & Overpass
  - Harry Hines Boulevard

****

Questions & Answers

SUSTAINABLE ROW AND UTILITY DEVELOPMENT

Alberta Blair, P.E.

DALLAS COUNTY VISION STATEMENT

- Dallas County models **Interagency Partnerships and Collaboration.**
- Dallas County is a **Healthy Community.**
- Dallas County is **Safe, Secure, and Prepared.**
- Dallas County proactively addresses **Critical Regional Issues.**
- Dallas County is the **Destination of Choice for Residents and Businesses.**
- **"VISION GIVES DIRECTION TO DALLAS COUNTY'S FUTURE"**

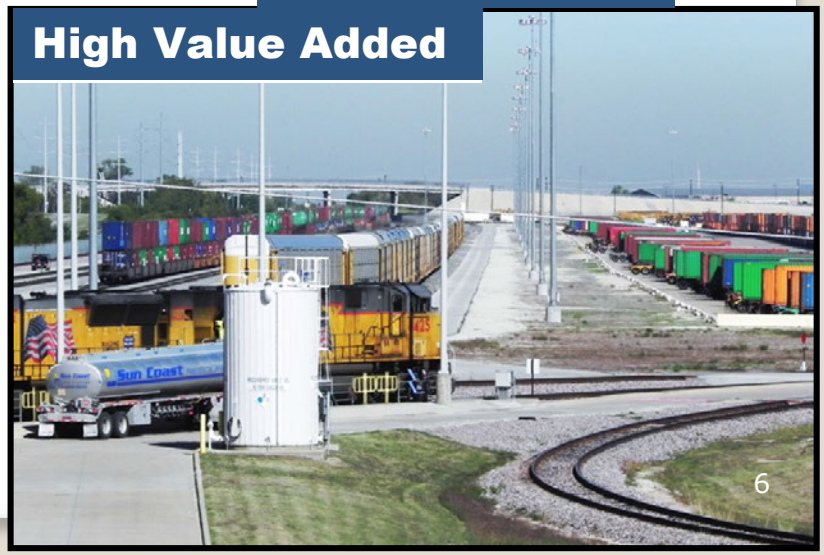
PUBLIC WORK'S MISSION/VISION

Regional Transportation Projects

Quality of Life

Leading Planner

High Value Added



SUSTAINABILITY: SEEKING A BALANCED OUTCOME

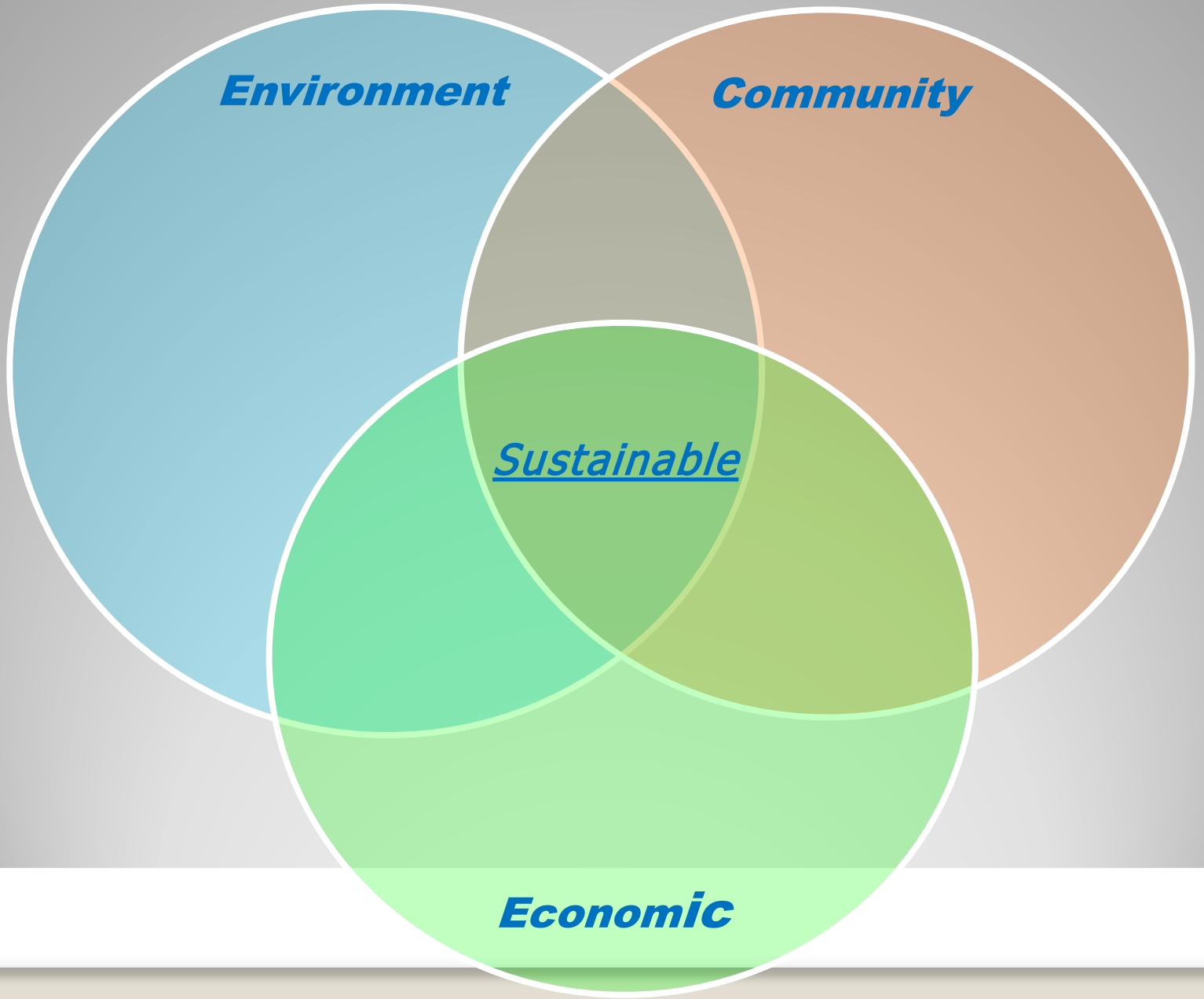
Community

Economic

Environmental

Sustainability is the act of balancing the environmental, community, and economic needs of the built and natural environments for present and future generations

SUSTAINABLE SOLUTIONS



1991 BOND ELECTION

- *UNWIELDY*
- *3-4 PROJ/YEAR DEL.*
- *ONLY WHATS ON ELECTION ORDER*
- *RESTRICTED PARTICIPATION*
- *MONEY DUE UP FRONT*

MCIP – 1999 to Present

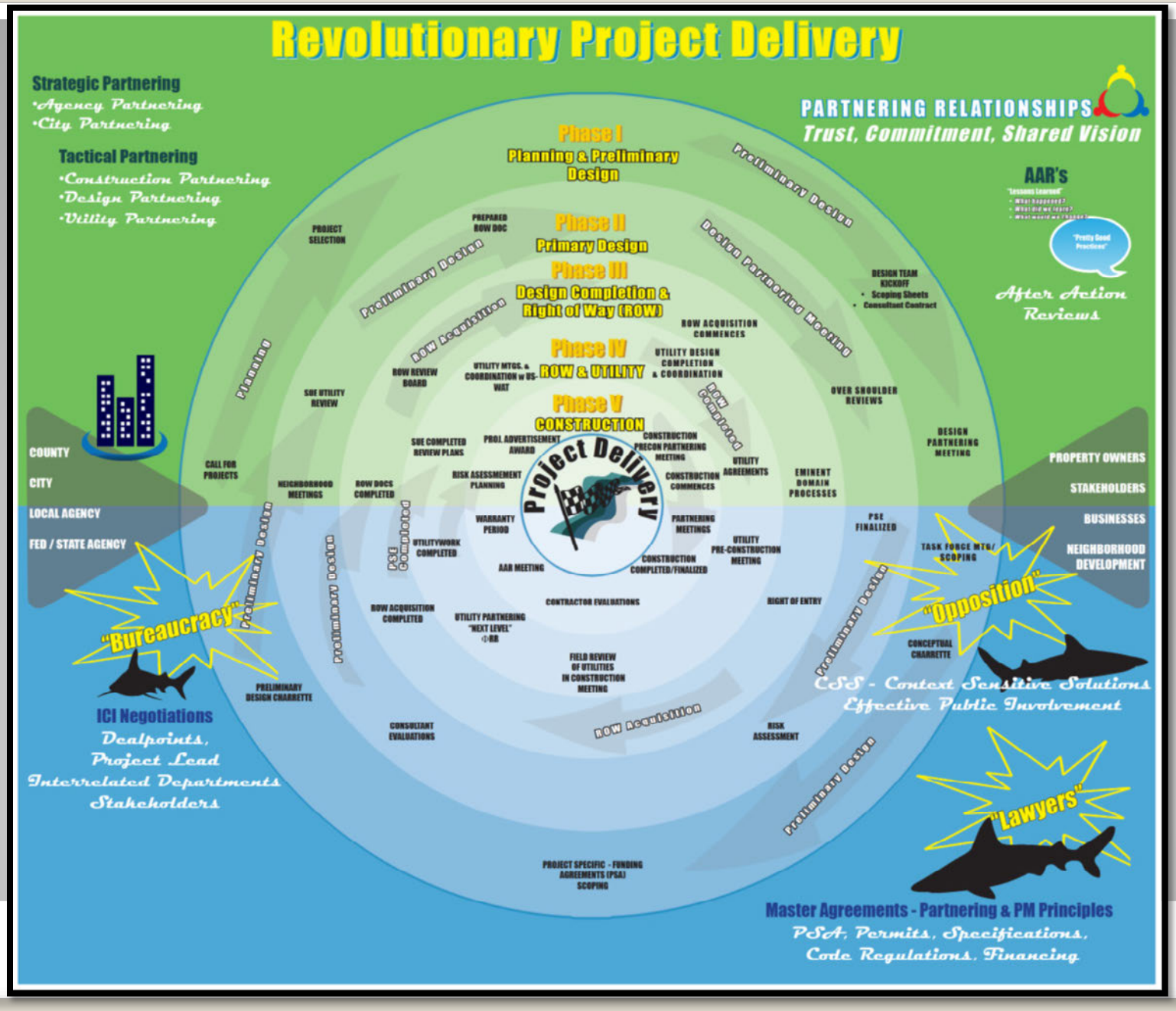
- *MORE EFFICIENT*
- *DELIVERS MORE PROJECTS*
- *MORE FLEXIBILITY*
- *ELEMENTS OF PARTNERING*
- *MORE RESPONSIVE*
- *MORE PUBLIC INPUT (CSS)*

MCIP Systematical Perspectives

- **Our 5-Phase Project Delivery System (*5-phase*)**
- Our MCIP Transp. Funding Commitments document – (MTFC -- "The Precious")
- Our P-5 Program Management System (P5)
- Our Program Year Concept (PY)
- Our Master Agreements & Project Supplemental Agreements (PSA)
- Our Public Works Business Operating Plans (PWBOP)
- Our Comprehensive Partnering Program (CPD)

5 Phase Project Delivery System

- Phase *I-Planning & Preliminary Design*
  - *a-Project Definition (CSS)*
  - *b-Preliminary Design*
- Phase *II-Primary Design*
- Phase *III-Design* *Completion & ROW Initiation*
- **Phase *IV-ROW* *Completion* & *UTILITY* *Adjustment***
- Phase *V-Project Delivery*
  - *a-Construction*
  - *b-Project Close Out*


Revolutionary Project Delivery
Strategic Partnering
•Agency Partnering
•City Partnering
Tactical Partnering
•Construction Partnering
•Design Partnering
•Utility Partnering
PARTNERING RELATIONSHIPS
Trust, Commitment, Shared Vision
AAR's
"Lessons Learned"
"Pretty Good Practices"
After Action Reviews
Phase I
Planning & Preliminary Design
Phase II
Primary Design
Phase III
Design Completion & Right of Way (ROW)
Phase IV
ROW & UTILITY
Phase V
CONSTRUCTION
Project Delivery
Preliminary Design
Design Partnering Meeting
ROW Acquisition
ROW Completed
Planning
PROJECT SELECTION
PREPARED ROW DOC
DESIGN TEAM KICKOFF
Scoping Sheets
Consultant Contract
ROW ACQUISITION COMMENCES
ROW REVIEW BOARD
UTILITY MTGS. & COORDINATION w UTILITY
UTILITY DESIGN COMPLETION & COORDINATION
SOE UTILITY REVIEW
OVER SHOULDER REVIEWS
DESIGN PARTNERING MEETING
SOE COMPLETED REVIEW PLANS
PROJ. ADVERTISEMENT AWARD
CONSTRUCTION PRECON PARTNERING MEETING
UTILITY AGREEMENTS
CALL FOR PROJECTS
NEIGHBORHOOD MEETINGS
ROW DOCS COMPLETED
RISK ASSESSMENT PLANNING
CONSTRUCTION COMMENCES
EMINENT DOMAIN PROCESSES
WARRANTY PERIOD
PARTNERING MEETINGS
PSE FINALIZED
PSE Completed
UTILITYWORK COMPLETED
UTILITY PRE-CONSTRUCTION MEETING
TASK FORCE MTG/ SCOPING
AAR MEETING
CONSTRUCTION COMPLETED/FINALIZED
ROW ACQUISITION COMPLETED
CONTRACTOR EVALUATIONS
RIGHT OF ENTRY
UTILITY PARTNERING "NEXT LEVEL" ID/DB
CONCEPTUAL CHARRETTE
FIELD REVIEW OF UTILITIES IN CONSTRUCTION MEETING
PRELIMINARY DESIGN CHARRETTE
CONSULTANT EVALUATIONS
ROW Acquisition
RISK ASSESSMENT
PROJECT SPECIFIC - FUNDING AGREEMENTS (PSA) SCOPING
COUNTY
CITY
LOCAL AGENCY
FED / STATE AGENCY
PROPERTY OWNERS
STAKEHOLDERS
BUSINESSES
NEIGHBORHOOD DEVELOPMENT
"Bureaucracy"
"Opposition"
"Lawyers"
ICI Negotiations
Dealpoints, Project Lead
Interrelated Departments
Stakeholders
CSS - Context Sensitive Solutions
Effective Public Involvement
Master Agreements - Partnering & PM Principles
PSA, Permits, Specifications,
Code Regulations, Financing

(during construction)

Singleton Boulevard

Lessons Learned (2000-2007)

- Michael Morris: "Constraints cause us to devise innovative solutions"
- How we think about the problem helps guide us to a solution
- MCIP 50%-50% brings potential to cooperatively seek winning solutions to tough zoning impacts on ROW, Utility aspects
- A Transportation Project is really a family of closely related infrastructure projects……but sometimes we haven't acted as if close and urgent integration is necessary
- **Partnering** is necessary (see "Essential Elements")
- "Hair on Fire"-type response needed…..IDEAS?????

Insights Applied - USWAT

- **SWAT Concept….Special Weapons And Tactics**

  Special Weapons:
  - Attitude of learning organization & continual improvement
  - Insights into true nature of challenges in delivering our projects
  - Truth can be a weapon that sets us free to act more effectively
  - Motivation….to achieve our vision of effective agent & valued partner
- **Tactics:**
  - **Partnering …..to a really intense, next level**

    TRUST, COMMITMENT & SHARED VISION**…..IN ACTION**

- **U-SWAT is born!….** *Utilities Special Work Assistance Team*

Insights Applied – *Sustainable Practices*

Taking ROW and Utilities to the Next Level - RUG

- ***RUG- ROW and Utilities Group***
  - Special Weapons:
    - Coordination of ROW & Utility Relocations
    - Responsible for Utility meetings and reports
    - Easement and Utility Reimbursement Agreements
    - Utility Conflict Tracking Reports
    - Release/Review of Plans to Utility Providers
    - Plan Requests from Utilities
  - **Tactics:**
    - **Partnering …..to a really intense, next level**
      TRUST, COMMITMENT & SHARED VISION**…..IN ACTION**

- **RUG is born!….*ROW & Utilities Group***

Insights Applied

- **5-Phase Project Delivery Method** INCLUDES full integration of all utilities in planning, design, ROW, Utilities Relocation & Road Construction
- **Subsurface Utility Engineering (SUE)-** is integrated with road/water& sewer designs, and USED for franchise utility design as well as road design & municipal utility design
- **Partnering -** Closer team work between County, City, municipal utility, road designer, S.U.E. consultant, municipal utility designer, franchise utility designers
  - ***Monthly Meetings***
  - ***Quarterly Partnering Meetings***
  - ***Annual Utility Partnering Awards Breakfast***
  - ***Project Task Force Meeting***
- **Utility Newsletters**
- **Project & Construction Management** -County provides parallel Project /CM during relocation of franchise utilities (the true 1st phase of construction) & joint contract CM during road/municipal utilities construction, under leadership of PM
  - ***Achieving 0RR – Zero Relocations of Relocations***
- **Guidelines -"**Project Design vs Utility Design & Construction Milestones," to guide implementation of "Utility Partnering Imperatives" (Handout)

SUSTAINABLE UTILITY INITIATIVES

Les St. John, P.E.

PRESENTATION:

Sustainable Utility Initiatives

Sustainable Utility Initiatives

Objectives:

1. **When the road is reconstructed, take the opportunity to upgrade utilities.**
    a. **Normal City Water and Wastewater lines.**
    b. **Major Water and Wastewater Transmission Mains**
    c. **Franchise Utilities**
2. **Eliminate utility conflicts prior to construction.**
3. **ORR = Zero Relocation of a Relocation**

How To:

1. **Communication – Milestones Chart**
2. **S.U.E.**
3. **Utility Coordination Check List**
4. **Enhanced utility plans**
5. **Field check of stakes prior to installation of utility**

How To:

Communication

9-Apr-09

Project Planning vs. Utility Planning and Relocation Milestones

Personnel Involved	*Percent Completion of Project Construction Plans*	*Action Items*	*Average Time Between Milestones (Months)*	*Accumulative Time for Project (Months)*	*Accumulative Time for Utilities (Months)*
County Personnel S.U.E. Consultant Design Consultant Utility Personnel	0% - 30%	Initial Subsurface Utility Engineering (S.U.E.)	6	6	
County Personnel S.U.E. Consultant Design Consultant Utility Personnel	30%	Know where and magnitude of major utilies. For the utility company's they get the big picture of what is planned. Review alignment to see if major utilities can be avoided. *Charette* (meeting with all stakeholders with utility companies invited). Set design parameters and have alignment established. Utility companies will know what to plan for - the overall scheme. Obtain additional S.U.E. information as needed as design progresses.	6	12	
County Personnel Design Consultant Stakeholders Utility Personnel	60%	Plans adequate (plan & profile done for paving and storm sewer) **Field Meeting** **Utilities start their design**	3	15	3
County Personnel Design Consultant Utility Personnel	85% - 90%	Right of Way (ROW) obtained (or if issues exist, then known resolution identified). **Utilities finish their design.**			
U-SWAT **Utility Personnel**		**Detailed review of planned utility relocations.** **Field check of stakes for proposed power pole locations, etc.** **Plan Review Meeting**	3	18	6
		Pre-Utility Relocation Meeting (Site Mtg)			
	100%	**Utilities begin relocation work (assuming ROW acquired)**	2	20	
	Bids Recv'd		3	23	
	Award of Contract		1	24	6
	Start Construction	**Utilities finished with relocation work**			

How To:

S.U.E

Subsurface Utility Engineering

- Budget for **SUE** in your **PLANNING**
- **INITIALLY USE 1.5 % OF CONSTRUCTION COST**
- **PM to estimate level of SUE for each project, and include PFES**

Level D = Existing Records; create drawings of all utilities based on available existing records

Level C = Visible Surface Features Survey; take Level D drawings and correlate to surveyed visible surface features

Level B = Designate; generate two dimensional map of utilities obtained by using non-destructive geophysical techniques

Level A = Locate; develop three dimensional map by exposing the underground utilities to obtain horizontal and vertical information, material, type, condition, size and other obtainable data. Restore surface to original condition.

How To:

Utility Coordination Check List

UTILITY COORDINATION CHECK LIST

- ☐ Obtain initial S.U.E. information for planning purposes.

- ☐ Note major utilities affected by proposed project. Contact the utility company(s) and plan together how to avoid conflict or resolution of potential conflict.

- ☐ *Charrette* meeting – invite utilities.

- ☐ Obtain additional detailed S.U.E. information as dictated by project scope.

- ☐ Check the S.U.E. map by an actual on the ground "muddy boots" site investigation by the Project Manager and the Design Engineer.

- ☐ 60% plans adequate – distribute plans to utilities.

- ☐ Inform utility companies of right of way acquisitions.

- ☐ 90% plans adequate:

    - Review in detail the construction plans vs. utilities, both existing and proposed, for conflicts.

    - Check utility company's field stakes for proposed relocations.

    - For a more thorough explanation of the two bullet points above, see "Steps Toward Eliminating Utility Conflicts and Achieving "0" Relocation of a Relocation". **This is important – it is taking utility coordination to the next level.**

U-SWAT personnel assistance:

- ☐ Field reconnaissance prior to bidding the project to observe potential conflicts vs. proposed work to be done.

After Start of Construction

- Field reconnaissance during construction to monitor utility relocations and help resolve any conflicts that may arise.

How To:

Enhanced Utility Plans

STEPS TOWARD ELIMINATING UTILITY CONFLICTS AND ACHIEVING "0" RELOCATION OF A RELOCATION

(*Taking utility partnering to the next level – detailed and comprehensive analysis*)

Note: The following does not guarantee perfection but helps eliminate conflicts prior to roadway construction.

Personnel involved in the steps listed below: 1) project manager 2) the roadway designer or someone who is very familiar with all of the design components of the project 3) the utility engineer doing the actual relocation design 4) construction inspector or construction personnel who will be working during the construction phase and 5) project surveyor. The role of the project manager should be to make sure that the following steps are taken.

STEPS:

1. The roadway designer makes a detailed "muddy boots" reconnaissance of the project with the project construction inspector from start to end and notes any above ground utility features not shown on the plans.

2. Plan comparison between project plans and utility plans. The utility plans are derived from S.U.E. survey information, field reconnaissance and proposed relocation plans obtained from the utility companies consultant. The utility information including water and sanitary sewer should be correlated with the roadway's project coordinate system. Print out drawings showing the utility lines and components (i.e. manholes, boxes, etc). This process is enhanced by color coding the utility lines and increasing line weights as necessary in order for the utility lines and components to "pop out" on the plan prints. The plans should be printed out at an appropriate scale for detailed analysis. Pavement outline, sidewalks, storm sewer systems, culverts and retaining walls should all be shown on the same plan sheet. Review using the "fine tooth comb" method and adjust plans and utilities accordingly.

3. Set stakes in field by utility company as to where the utility poles, guy wires, manholes, etc. will be placed for relocation work.

4. Roadway's project surveyor surveys the stakes set by the utilities and as is applicable, check benchmarks used by the utilities.

5. Import survey points into the roadway's project cadd file.

6. Review survey point locations vs. project features such as pavement, sidewalks, retaining walls, storm sewers and culverts.

7. Adjust locations of stakes as required to avoid conflicts and to avoid having to relocate a relocated utility (thus, achieving "0" R of R).

8. The relocated stakes are back checked by the roadway's surveyor, designer and inspector.

9. As noted above, this does not guarantee perfection. Therefore, if an unknown utility conflict is uncovered during construction, the Utility Special Work Assistance Team (U-SWAT) personnel will coordinate and assist in the resolution of the conflict.

American Public Works Association Uniform Color Code

RED	Electric power lines, cables or conduits, and lighting cables.
YELLOW	Gas, oil, steam, petroleum or other hazardous liquid or gaseous materials.
ORANGE	Communications, cable TV, alarm or signal lines, cables, or conduits.
BLUE	Water, irrigation, and slurry lines.
GREEN	Sewers, storm sewer facilities, or other drain lines.
WHITE	Proposed excavation
PINK	Temporary survey markings.
PURPLE	Reclaimed water, irrigation and slurry lines.

ELECTRICAL SUBSTATION

RAMP

CADIZ STREET (VARIABLE WIDTH R.O.W.)

IH 35E (OVERHEAD)

35-FOC02-0104 RELOCATED

35-OHE01-0100 35-OHE01-0099 RELOCATED

TO ELECTRIC SUUSTATION

TWC

ONCOR

GAS

RIVERFRONT DRIVE

SPRINT

CADIZ ST

35-FOC06-0191 RELOCATED

IH 35 RAMP

ACCESS ROAD

EXISTING UTILITIES LEGEND

E1	ONCOR ELECTRIC
G1	ATMOS GAS
T1	AT&T
T2	LEVEL 3
T3	SPRINT
T4	VERIZON BUSINESS
C1	TIME WARNER CABLE
OE1	OVERHEAD UTILITY
OE2	STREET LIGHTS
	WATER
	WASTE WATER
	STORM SEWER

E	ELECTRIC MANHOLE
FO	FIBER OPTIC MANHOLE
G	GAS MANHOLE
SS	SANITARY SEWER MANHOLE
ST	STORM SEWER MANHOLE
W	WATER MANHOLE
E	ELECTRIC PULL BOX
T	TELEPHONE PULL BOX
TR	TRAFFIC SIGNAL PULL BOX
	GAS METER
	GUY WIRE
	SIGN
	POWER POLE
	LIGHT POLE

NOTE: This drawing is for informational purposes only. Location of utilities shall be field verified prior to construction. Call 1-800-DIGG-TESS 48 hours prior to construction. Proposed utility work indicated may be changed by each individual utility; therefore, contact the utility company to determine latest proposed utility adjustment activity.

NO.	REVISION	BY	DATE

COUNTY OF DALLAS, TEXAS

DEPARTMENT OF PUBLIC WORKS

UTILITY DRAWING

RIVERFRONT BOULEVARD

DESIGNED- XX	DRAWN- XX	DATE- SEP 2013	FILE- RIVERFRONT-UTILITIES
APPROVED- XX	CHECKED- XXX	SCALE- AS NOTED	SHEET 1 OF 7

ELECTRICAL SUBSTATION

RAMP

CADIZ STREET (VARIABLE WIDTH R.O.W.)

IH 35E

IH 35E (OVERHEAD)

35-FOC02-0104 RELOCATED

35-OHE01-0100
35-OHE01-0099
RELOCATED

TO ELECTRIC SUUSTATION

RIVERFRONT DRIVE

CADIZ ST

ONCOR

TWC

SPRINT

GAS

35 RAMP

ACCESS ROAD

35-FOC06-0191 RELOCATED

EX 24" W

EX 20" W

EX 8" WW

EX 15" WW

EX 10" W

EX 8" W

EX 6" WW FM

EX 20" WW

30" WATER LINE "W-F"

24" WATER LINE "W-2"

16" WATER LINE "W-2"

12" WATER LINE "W-2"

8" WATER LINE "W-2"

EX 24" W

EX 20" W

EX 8" WW

EX 15" WW

EX 10" W

EX 8" W

EX 6" WW FM

EX 20" WW

30" WATER LINE "W-F"

24" WATER LINE "W-2"

16" WATER LINE "W-2"

12" WATER LINE "W-2"

8" WATER LINE "W-2"

EXISTING UTILITIES LEGEND

E1	ONCOR ELECTRIC
G1	ATMOS GAS
T1	AT&T
T2	LEVEL 3
T3	SPRINT
T4	VERIZON BUSINESS
C1	TIME WARNER CABLE
OE1	OVERHEAD UTILITY
OE2	STREET LIGHTS
	WATER
	WASTE WATER
	STORM SEWER

E	ELECTRIC MANHOLE
FO	FIBER OPTIC MANHOLE
G	GAS MANHOLE
SS	SANITARY SEWER MANHOLE
ST	STORM SEWER MANHOLE
W	WATER MANHOLE
E	ELECTRIC PULL BOX
T	TELEPHONE PULL BOX
TR	TRAFFIC SIGNAL PULL BOX
	GAS METER
	GUY WIRE
	SIGN
	POWER POLE
	LIGHT POLE

NOTE: This drawing is for informational purposes only. Location of utilities shall be field verified prior to construction. Call 1-800-DIGG-TESS 48 hours prior to construction. Proposed utility work indicated may be changed by each individual utility; therefore, contact the utility company to determine latest proposed utility adjustment activity.

NO.	REVISION	BY	DATE

COUNTY OF DALLAS, TEXAS

DEPARTMENT OF PUBLIC WORKS

UTILITY DRAWING

RIVERFRONT BOULEVARD

DESIGNED- XX	DRAWN- XX	DATE- 07.2003	FILE- RIVERFRONT-UTILITIES
APPROVED- XX	CHECKED- XXX	SCALE- AS NOTED	SHEET 1 OF 7

ELECTRICAL SUBSTATION

RAMP

CADIZ STREET (VARIABLE WIDTH R.O.W.)

IH 35E (OVERHEAD)

IH 35E

35-FOC02-0104 RELOCATED

TO ELECTRIC SUUSTATION

35-OHE01-0100
35-OHE01-0099
RELOCATED

IH 35E

IH 35 (OVERHEAD)

ONCOR

TWC

SPRINT

GAS

35-FOC06-0191 RELOCATED

35 RAMP

RAMP

RIVERFRONT DRIVE

RIVERFRONT BLVD

CADIZ ST

CADIZ STREET

ACCESS ROAD

EX 24" W

EX 20" W

EX 8" WW

EX 10" W

EX 15" WW

EX 60" WW FM

EX 12" W

EX 8" W

EX 20W

30" WATER LINE "W-1"

16" WATER LINE "W-2"

24" WW LINE "WW-1"

15" WW LINE "WW-2"

12" W LINE "W-3"

8" WW LINE "WW-3"

8" WW LINE "WW-4"

EX. 8" WW TO BE CONSTRUCTED (BY OTHERS)

EX. 15" WW TO BE CONSTRUCTED (BY OTHERS)

12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00

EXISTING UTILITIES LEGEND

E1	ONCOR ELECTRIC
G1	ATMOS GAS
T1	AT&T
T2	LEVEL 3
T3	SPRINT
T4	VERIZON BUSINESS
C1	TIME WARNER CABLE
OE1	OVERHEAD UTILITY
OE2	STREET LIGHTS
	WATER
	WASTE WATER
	STORM SEWER

E	ELECTRIC MANHOLE
FO	FIBER OPTIC MANHOLE
G	GAS MANHOLE
SS	SANITARY SEWER MANHOLE
ST	STORM SEWER MANHOLE
W	WATER MANHOLE
E	ELECTRIC PULL BOX
T	TELEPHONE PULL BOX
TR	TRAFFIC SIGNAL PULL BOX
	GAS METER
	GUY WIRE
	SIGN
	POWER POLE
	LIGHT POLE

NOTE: This drawing is for informational purposes only. Location of utilities shall be field verified prior to construction. Call 1-800-DIGG-TESS 48 hours prior to construction. Proposed utility work indicated may be changed by each individual utility; therefore, contact the utility company to determine latest proposed utility adjustment activity.

NO.	REVISION	BY	DATE

COUNTY OF DALLAS, TEXAS

DEPARTMENT OF PUBLIC WORKS

UTILITY DRAWING

RIVERFRONT BOULEVARD

DESIGNED- XX	DRAWN- XX	DATE- 07/2003	FILE- RIVERFRONT-UTILITIES
APPROVED- XX	CHECKED- XXX	SCALE- AS NOTED	SHEET 1 OF 7

FUEL CITY

35-FOC02-0104
35-OHF02-0101
35-OHC01-0101
35-OHF02-0099
35-OHC01-0099
RELOCATED

35-OH XX-0101
RELOCATED

35-ELE01-0189
RELOCATED

OVERHEAD TWC

TWC

AT&T

ONCOR

GAS

35-ELE03-0190
RELOCATED

BT-GAS01-0167
RELOCATED

BT-ELE03-0191
RELOCATED

RAMP

RAMP

RAMP

IH 35 (OVERHEAD)

RIVERFRONT BOULEVARD

RIVERFRONT DRIVE

EXISTING UTILITIES LEGEND

E1	ONCOR ELECTRIC
G1	ATMOS GAS
T1	AT&T
T2	LEVEL 3
T3	SPRINT
T4	VERIZON BUSINESS
C1	TIME WARNER CABLE
OE1	OVERHEAD UTILITY
OE2	STREET LIGHTS
	WATER
	WASTE WATER
	STORM SEWER

E	ELECTRIC MANHOLE
FO	FIBER OPTIC MANHOLE
G	GAS MANHOLE
SS	SANITARY SEWER MANHOLE
ST	STORM SEWER MANHOLE
W	WATER MANHOLE
E	ELECTRIC PULL BOX
T	TELEPHONE PULL BOX
TR	TRAFFIC SIGNAL PULL BOX
	GAS METER
	GUY WIRE
	SIGN
	POWER POLE
	LIGHT POLE

NOTE: This drawing is for informational purposes only. Location of utilities shall be field verified prior to construction. Call 1-800-DIGG-TESS 48 hours prior to construction. Proposed utility work indicated may be changed by each individual utility; therefore, contact the utility company to determine latest proposed utility adjustment activity.

NO.	REVISION	BY	DATE

COUNTY OF DALLAS, TEXAS

DEPARTMENT OF PUBLIC WORKS

UTILITY DRAWING

RIVERFRONT BOULEVARD

DESIGNED- XX	DRAWN- XX	DATE- 07.2003	FILE- RIVERFRONT-UTILITIES
APPROVED- XX	CHECKED- XXX	SCALE- AS NOTED	SHEET 2 OF 7

FUEL CITY

35-ELE01-0189
RELOCATED

35-OH XX-0101
RELOCATED

35-FOC02-0104
35-OHF02-0101
35-OHC01-0101
35-OHF02-0099
35-OHC01-0099
RELOCATED

TWC

OVERHEAD TWC

AT&T

ONCOR

GAS

BT-GAS01-0167
RELOCATED

BT-ELE03-0194
RELOCATED

35-ELE03-0194
RELOCATED

RAMP

RAMP

IH 35 (OVERHEAD)

IH 35E

RIVERFRONT DRIVE

RIVERFRONT BOULEVARD

TH16

N

0 30' 60'

EXISTING UTILITIES LEGEND

E1	ONCOR ELECTRIC
G1	ATMOS GAS
T1	AT&T
T2	LEVEL 3
T3	SPRINT
T4	VERIZON BUSINESS
C1	TIME WARNER CABLE
OE1	OVERHEAD UTILITY
OE2	STREET LIGHTS
	WATER
	WASTE WATER
	STORM SEWER

E	ELECTRIC MANHOLE
FO	FIBER OPTIC MANHOLE
G	GAS MANHOLE
SS	SANITARY SEWER MANHOLE
ST	STORM SEWER MANHOLE
W	WATER MANHOLE
E	ELECTRIC PULL BOX
T	TELEPHONE PULL BOX
TR	TRAFFIC SIGNAL PULL BOX
	GAS METER
	GUY WIRE
	SIGN
	POWER POLE
	LIGHT POLE

NOTE: This drawing is for informational purposes only. Location of utilities shall be field verified prior to construction. Call 1-800-DIGG-TESS 48 hours prior to construction. Proposed utility work indicated may be changed by each individual utility; therefore, contact the utility company to determine latest proposed utility adjustment activity.

NO.	REVISION	BY	DATE

COUNTY OF DALLAS, TEXAS

DEPARTMENT OF PUBLIC WORKS

UTILITY DRAWING

RIVERFRONT BOULEVARD

DESIGNED- XX	DRAWN- XX	DATE- 07.2003	FILE- RIVERFRONT UTILITIES
APPROVED- XX	CHECKED- XXX	SCALE- AS NOTED	SHEET 2 OF 7

FUEL CITY

35-ELE01-0189
RELOCATED

35-OH XX-0101
RELOCATED

35-FOC02-0104
35-OHF02-0101
35-OHC01-0101
35-OHF02-0099
35-OHC01-0099
RELOCATED

TWC

OVERHEAD TWC

AT&T

ONCOR

GAS

BT-GAS01-0167
RELOCATED

35-ELE03-0194
RELOCATED

BT-ELE03-0193
RELOCATED

RAMP

RAMP

RAMP

IH 35 (OVERHEAD)

IH 35E

RIVERFRONT BOULEVARD

RIVERFRONT DRIVE

RIVERFRONT DRIVE

RIVERFRONT DRIVE

EX 24"W

EX 20"W

EX 6"W

8" WATER LINE "W-1"

16" WATER LINE "W-2"

30" WATER LINE "W-1"

30" WATER LINE "W-1"

24" WW LINE "WW-1"

24" WW LINE "WW-1"

21" WW LINE "WW-1"

22+00

23+00

24+00

25+00

26+00

27+00

28+00

29+00

30+00

31+00

N

0 30' 60'

EXISTING UTILITIES LEGEND

EI	ONCOR ELECTRIC	E	ELECTRIC MANHOLE
GI	ATMOS GAS	FO	FIBER OPTIC MANHOLE
TI	AT&T	G	GAS MANHOLE
T2	LEVEL 3	SS	SANITARY SEWER MANHOLE
T3	SPRINT	ST	STORM SEWER MANHOLE
T4	VERIZON BUSINESS	W	WATER MANHOLE
CI	TIME WARNER CABLE	E	ELECTRIC PULL BOX
OE1	OVERHEAD UTILITY	T	TELEPHONE PULL BOX
OE2	STREET LIGHTS	TR	TRAFFIC SIGNAL PULL BOX
	WATER		GAS METER
	WASTE WATER		GUY WIRE
	STORM SEWER		SIGN
			POWER POLE
			LIGHT POLE

NOTE: This drawing is for informational purposes only. Location of utilities shall be field verified prior to construction. Call 1-800-DIGG-TESS 48 hours prior to construction. Proposed utility work indicated may be changed by each individual utility; therefore, contact the utility company to determine latest proposed utility adjustment activity.

NO.	REVISION	BY	DATE

COUNTY OF DALLAS, TEXAS

DEPARTMENT OF PUBLIC WORKS

UTILITY DRAWING

RIVERFRONT BOULEVARD

DESIGNED- XX	DRAWN- XX	DATE- 07.2013	FILE- RIVERFRONT-UTILITIES
APPROVED- XX	CHECKED- XXX	SCALE- AS NOTED	SHEET 2 OF 7

How To:

Field Check of Stakes Prior to Installation of Utilities

(See Example for Objective 3)

Objective 1 – Example

Taking the Opportunity to Upgrade Utilities

Examples of Taking the Opportunity to Upgrade Utilities

1. ***Mountain Creek Parkway*** – 72 inch Diameter Wastewater Main (TRA) to 96 Inch Wastewater Main

    a. Existing 72 Inch WW Main was shown to be in a deteriorated condition.

    b. The schedule for the installation of a 96 Inch WW Main was accelerated.

    c. 4,800 Feet of the existing 72 Inch WW Main was filled in with concrete.

2. Gaston and Washington

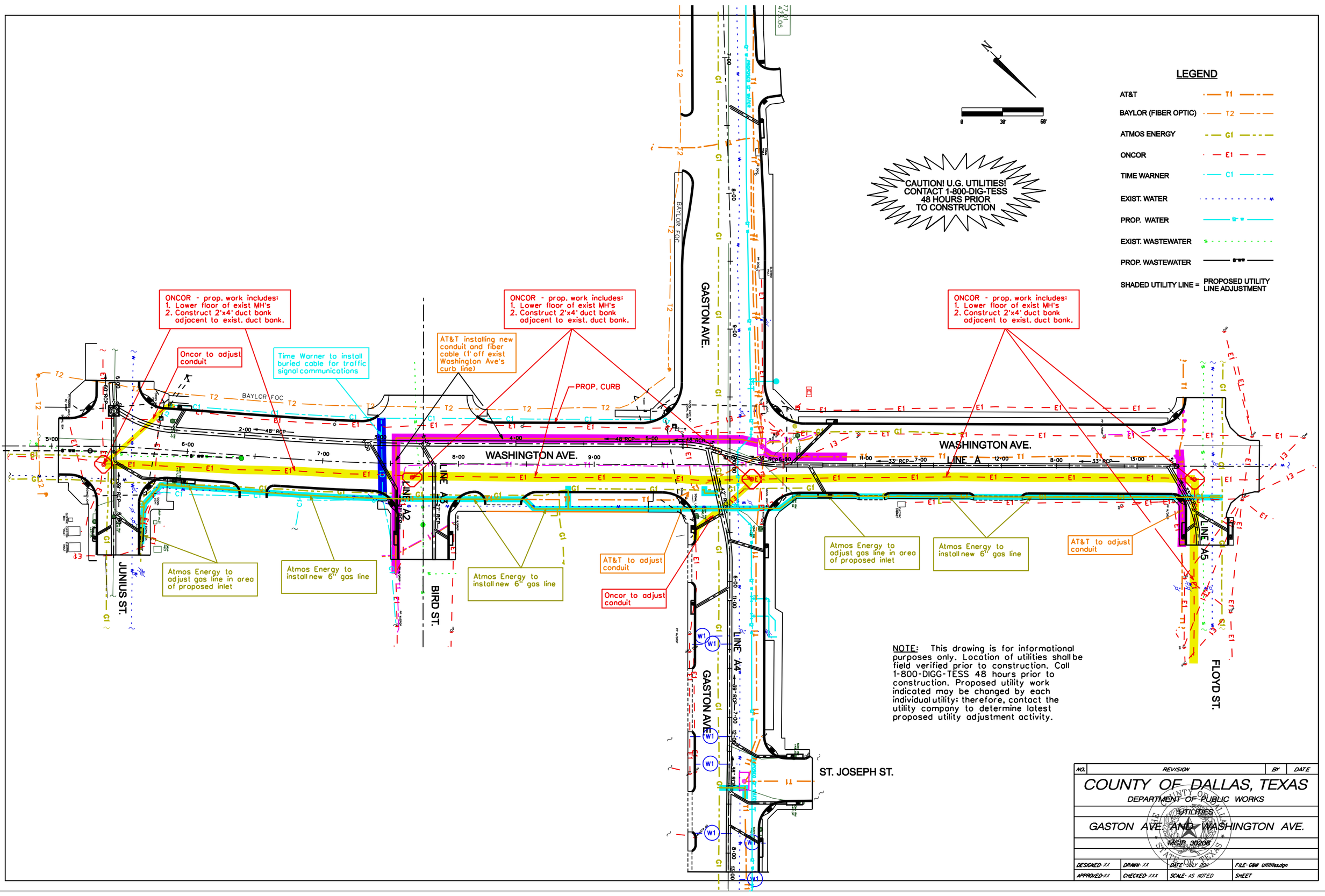
    a. Oncor – lowering of existing manholes

    b. Atmos – installed new gas main to replace old main.

    c. AT&T – replaced sections of existing wood duct that carries active cable.

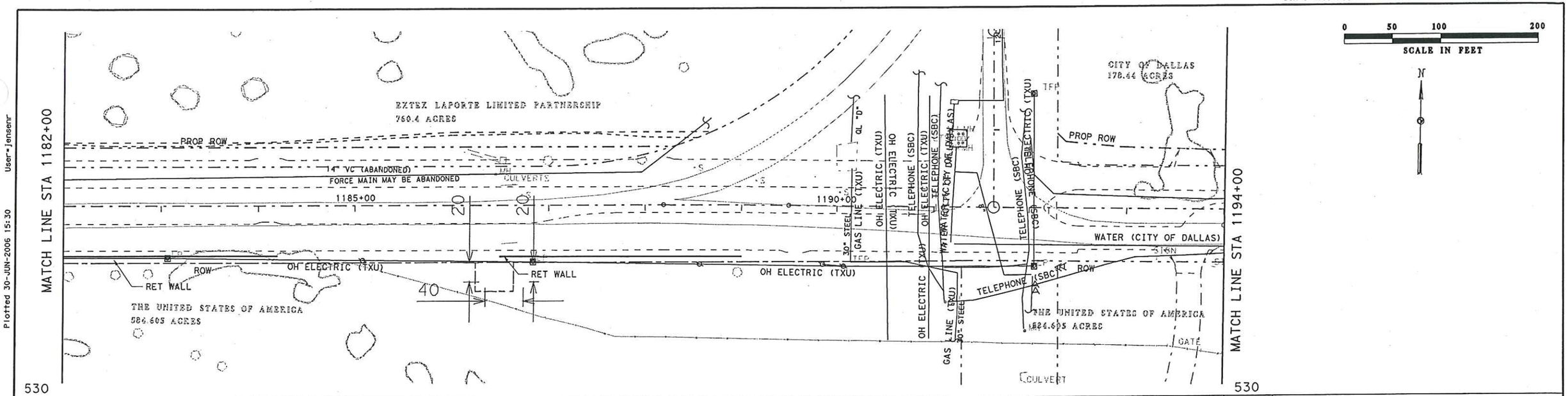
3. Riverfront Boulevard

    a. Atmos – installing new gas main (installing in existing 4th lane that will be future parkway)**.**


LEGEND
AT&T
BAYLOR (FIBER OPTIC)
ATMOS ENERGY
ONCOR
TIME WARNER
EXIST. WATER
PROP. WATER
EXIST. WASTEWATER
PROP. WASTEWATER
SHADED UTILITY LINE = PROPOSED UTILITY LINE ADJUSTMENT
CAUTION! U.G. UTILITIES! CONTACT 1-800-DIG-TESS 48 HOURS PRIOR TO CONSTRUCTION
ONCOR - prop. work includes: 1. Lower floor of exist MH's 2. Construct 2'x4' duct bank adjacent to exist. duct bank.
Oncor to adjust conduit
Time Warner to install buried cable for traffic signal communications
AT&T installing new conduit and fiber cable (1' off exist Washington Ave's curb line)
PROP. CURB
WASHINGTON AVE.
GASTON AVE.
BAYLOR FOC
LINE A
LINE A2
LINE A3
LINE A4
LINE A5
JUNIUS ST.
BIRD ST.
ST. JOSEPH ST.
FLOYD ST.
Atmos Energy to adjust gas line in area of proposed inlet
Atmos Energy to install new 6" gas line
AT&T to adjust conduit
Oncor to adjust conduit
NOTE: This drawing is for informational purposes only. Location of utilities shall be field verified prior to construction. Call 1-800-DIGG-TESS 48 hours prior to construction. Proposed utility work indicated may be changed by each individual utility; therefore, contact the utility company to determine latest proposed utility adjustment activity.
NO. REVISION BY DATE
COUNTY OF DALLAS, TEXAS
DEPARTMENT OF PUBLIC WORKS
UTILITIES
GASTON AVE. AND WASHINGTON AVE.
MSIP 30206
DESIGNED-XX DRAWN-XX DATE-JULY 2011 FILE-GAW Utilities.dgn
APPROVED-XX CHECKED-XXX SCALE-AS NOTED SHEET

Objective 2 – Example

Eliminating Utility Conflicts Prior to Construction



SHEET 15 OF 18

JAMES M. DISTIN
85435
REGISTERED PROFESSIONAL ENGINEER
STATE OF TEXAS
6/30/06

James M. Distin, P.E.

No.	Revision	By	Date

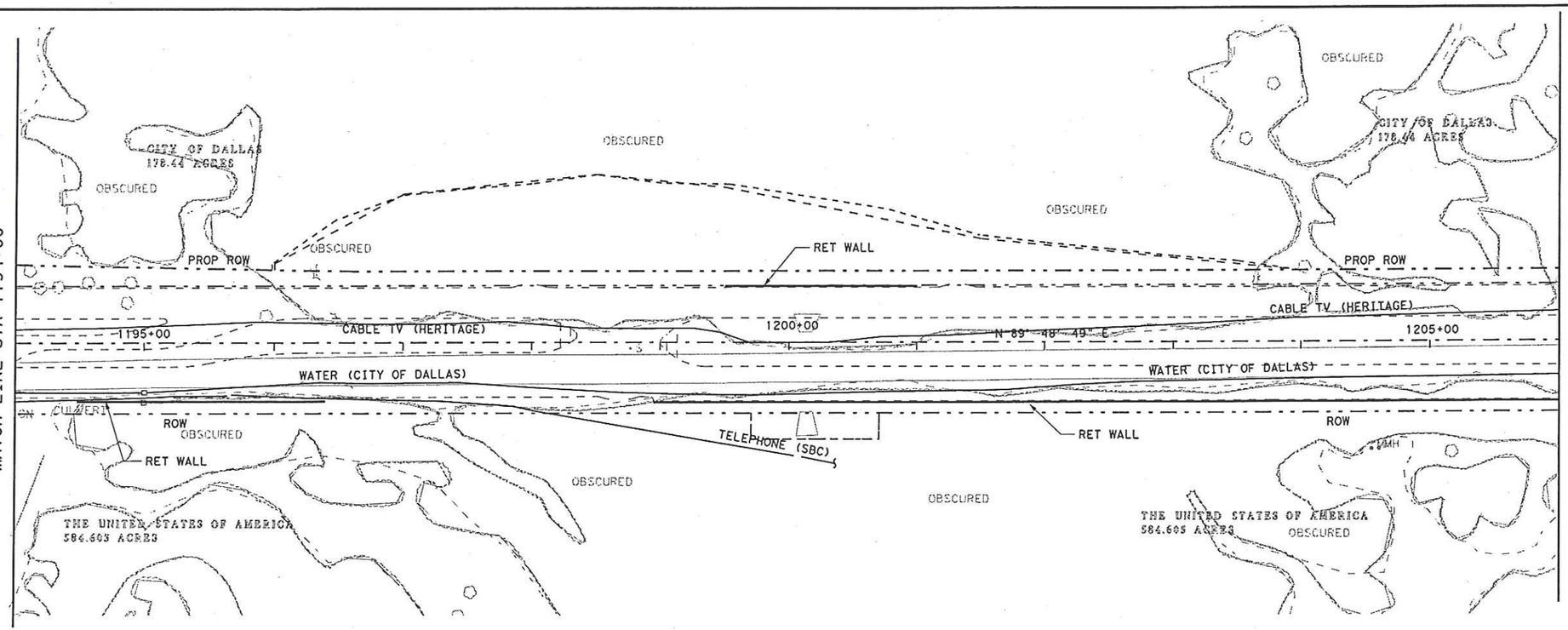
Parsons Brinckerhoff Quade & Douglas, Inc.
2777 Stemmons Freeway
Suite 1333
Dallas, Tx. 75207

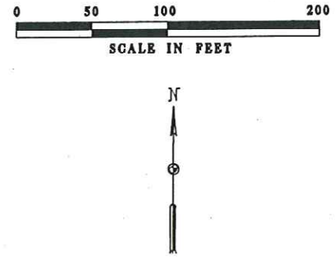
MOUNTAIN CREEK PARKWAY

EXISTING UTILITIES SHEET

STA 1182+00 TO STA 1194+00

	FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.
Designed:		TEXAS	SEE TITLE SHEET	383
Checked:	STATE DIST. NO.	COUNTY	CONTROL SECTION JOB NO.	HIGHWAY NO.
Drawn:	DAL	DALLAS	0918 45 543	MT CRK PKWY
Checked:				





530
520
510
500
490

SHEET 16 OF 18

JAMES M. DISTIN
85435
REGISTERED PROFESSIONAL ENGINEER
STATE OF TEXAS
6/30/06
James M. Distin, P.E.

No	Revision	By	Date

Parsons Brinckerhoff Quade & Douglas, Inc.
2777 Stemmons Freeway
Suite 1333
Dallas, Tx. 75207

MOUNTAIN CREEK PARKWAY

EXISTING UTILITIES SHEET

STA 1194+00 TO STA 1206+00

Designed:	FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.			SHEET NO.
Checked:		TEXAS	SEE TITLE SHEET			384
Drawn:	STATE DIST. NO.	COUNTY	CONTROL NO.	SECT. NO.	JOB NO.	HIGHWAY NO.
Checked:	DAL	DALLAS	0918	45	543	MT CRK PKWY

transmission tower base.

MULTIPLE WATERLINE APPURTENENCES

Expanded Mt Creek Parkway

APPROX. LOCATION OF CUT AND PLUGGED GAS LINE. LOCATION PER ONCOR/TXU REPRESENTATIVE.

Mt Creek Parkway

CABLE TV

FIBER OPTIC

GAS

WATER

PI 1020+20.00

1195+00

TELEPHONE

WATER

FIBER OPTIC

TELEPHONE

RETAINING WALL NO.7

NO.	REVISION	BY	DATE

COUNTY OF DALLAS, TEXAS

DEPARTMENT OF PUBLIC WORKS

THE COUNTY OF DALLAS STATE OF TEXAS

DESIGNED	DRAWN	DATE	FILE
APPROVED	CHECKED	SCALE	SHEET

transmission tower base.

MULTIPLE WATERLINE APPURTENENCES

Expanded Mt Creek Parkway

APPROX. LOCATION OF CUT AND PLUGGED GAS LINE. LOCATION PER ONCOR/TXU REPRESENTATIVE.

Mt Creek Parkway

CABLE TV

FIBER OPTIC

GAS

WATER

1020+20.00

1195+00

RETAINING WALL NO.7

WATER

TELEPHONE

FIBER OPTIC

TELEPHONE

WATER

CABLE TV

5010 +0.0000 RAD-PT

5170 +0.0000 PARTK

5169 +0.0000 PARTK

5168 +0.0000 PARTK

5167 +0.0000 PARTK

5011 +0.0000 EX-ROW

5009 +0.0000 EX-ROW

5061 +0.0000 EX-ROW

5140 +0.0000 PI

5141 +0.0000 PI

5142 +0.0000 PI

626 +514.4958 2IN

627 +514.4958 2IN

628 +514.3669

212 +519.4785 MC4

+15

+15

8"

36" STEEL

N

NO.	REVISION	BY	DATE

COUNTY OF DALLAS, TEXAS

DEPARTMENT OF PUBLIC WORKS

THE COUNTY OF DALLAS • STATE OF TEXAS •

26 of 44

DESIGNED	DRAWN	DATE	FILE:
APPROVED	CHECKED	SCALE	SHEET

transmission tower base.

MULTIPLE WATERLINE APPURTENENCES

Expanded Mt. Creek Parkway

APPROX. LOCATION OF CUT AND PLUGGED GAS LINE. LOCATION PER ONCOR/TXU REPRESENTATIVE.

CABLE TV

FIBER OPTIC

GAS

WATER

1020+20.00

1195+00

RETAINING WALL NO. 7

TELEPHONE

WATER

FIBER OPTIC

TELEPHONE

30" STEEL

N

NO.	REVISION	BY	DATE

COUNTY OF DALLAS, TEXAS

DEPARTMENT OF PUBLIC WORKS

THE COUNTY OF DALLAS STATE OF TEXAS

27 of 44

DESIGNED	DRAWN	DATE	FILE
APPROVED	CHECKED	SCALE	SHEET

Mountain Creek Parkway

Results of Identifying AT&T Manhole Conflict at Retaining Wall No. 7 Prior to Construction

1. Saved Time.

Allowed enough time to solve the conflict before it delayed the project. We were solving the problem at the Pre-Construction Conference instead of 3 months after construction began.

2. Saved Money.

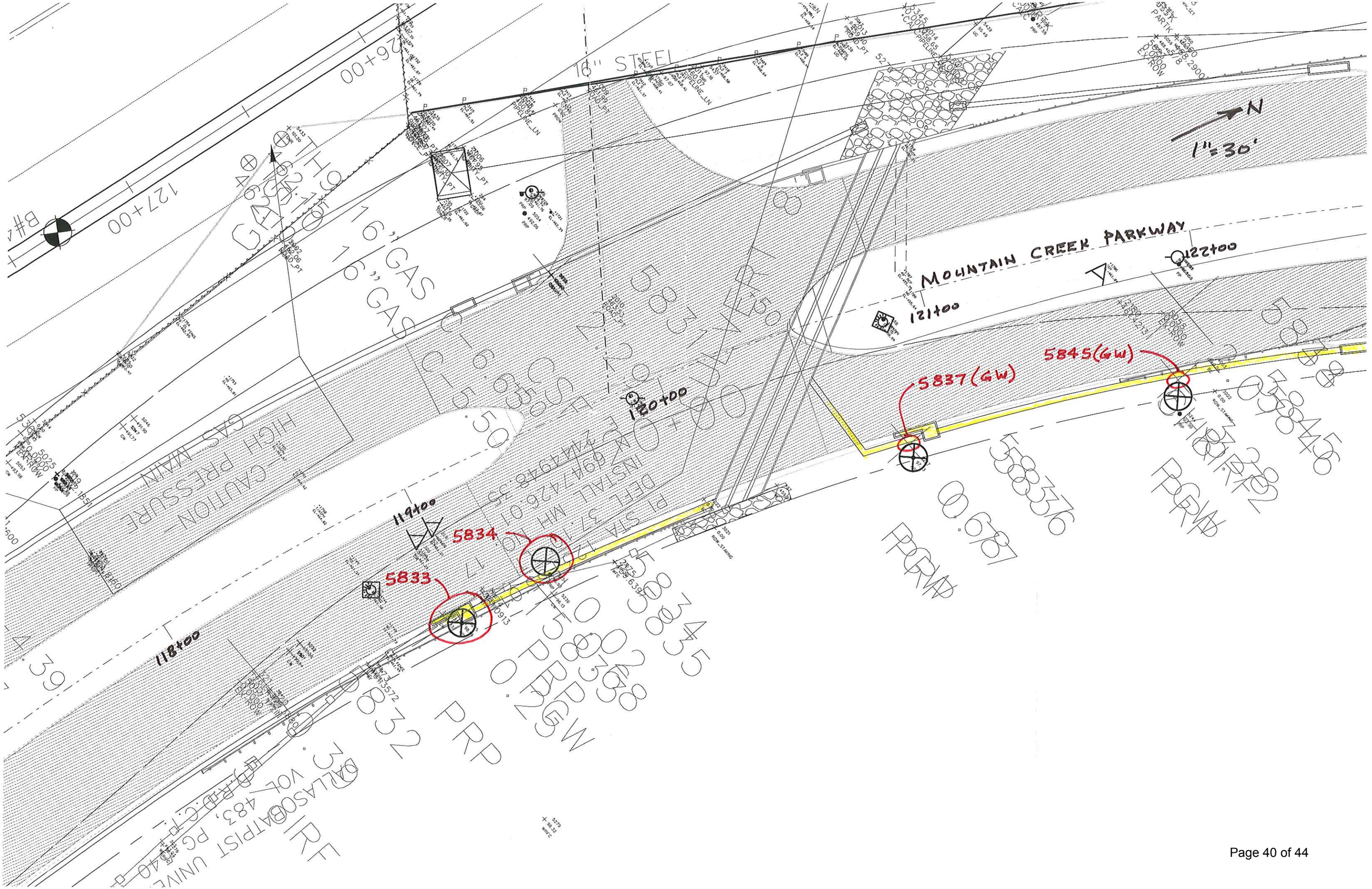
Saved $70,000 because we had enough time to execute an alternative that did not cost additional funds required by TxDOT's solution of a drilled shaft wall.

3. Gained Partnering Relationship with AT&T Designer.

By being pro-active in trying to find a solution that did not require AT&T to move, we gained a valuable partnering relationship that has proven to be helpful on the rest of the project.

Objective 3 – Example

Eliminating “0” Relocation of a Relocation


16" STEEL
MOUNTAIN CREEK PARKWAY
N
1"=30'
121+00
122+00
120+00
119+00
118+00
5837(GW)
5845(GW)
5834
5833
127+00
126+00
HIGH PRESSURE GAS MAIN
CAUTION
PRP

N

1"=30'

5864

5867

5870

STA 182+46, 137' RT TO
STA 183+75, 44' RT, FILL
APPROX 185 LF OF EXISTING
72" INTERCEPTOR WITH
CONCRETE GROUT(REFERENCE
BID ITEM D1)

GAS

MOUNTAIN CREEK PARKWAY

FILL APPROX 840 LF OF EXISTING 72"
INTERCEPTOR WITH CONCRETE GROUT, IF ADDITIVE
ALTERNATE 1 IS SELECTED. IF ADDITIVE
ALTERNATE 1 IS NOT SELECTED, ABANDON
EXISTING 72" INTERCEPTOR IN PLACE

STA 183+75, 42' RT, FILL
APPROX 100 LF OF EXISTING
72" INTERCEPTOR WITH
CONCRETE GROUT(REFERENCE
BID ITEM D1)

STA 184+76, 44' RT TO STA 192+15, 25' RT

1058+00

1059+00

1060+00

1061+00

1062+00

183+00

B#23

Aerial-2005.dgn 11/19/2007 4:30:39 PM

5832	6947064.211	2445092.64	0.3881	5/8IRFC	1st time to shoot this IR? There is another IR 6.4' away.	
5833	6947132.238	2445126.027	0.245	PRP	located in a proposed inlet area	1119+00, Rt
5834	6947169.513	2445128.783	0.0197	PRP	located in the pavement area	1119+35, Rt
5835	6947161.639	2445138.979	0.6846	PGW	ok	
5836	6947294.694	2445187.235	0.7727	PRP	ok	
5837	6947296.497	2445182.668	0.6805	PGW	less than 1' away from storm sewer	1120+80, Rt
5838	6947403.576	2445209.94	2.0716	5/8IRFC	1st time to shoot this IR	
5839	6947593.043	2445277.464	1.4496	5/8IRF	ok	
5840	6948488.886	2445861.306	11.9486	5/8IRFC	ok	
5841	6947665.107	2445276.574	2.8159	XCS		
5842	6947491.514	2445310.216	7.7952	CHK	ok	
5843	6947500.986	2445289.293	3.8287	5/8IRFC	1.93' from property corner	
5844	6947403.53	2445209.931	2.0696	CHK	good	
5845	6947385.523	2445228.762	3.2764	PGW	1' from storm sewer	1121+86, Rt
5846	6947381.559	2445233.243	3.7172	PRP	ok	
5847	6947515.04	2445328.373	6.2477	PRP	ok	
5848	6947519.657	2445322.486	5.7573	PGW	ok	
5849	6947682.443	2445451.124	0.1148	PRP	ok	
5850	6947846.325	2445487.485	1.4226	60DS	ok	
5851	6947665.09	2445276.554	2.7781	CHK	ok	
5852	6947822.446	2445558.053	0.6137	PRP	ok	
5853	6947820.563	2445577.349	0.9426	1/2IRSC	iron rod set	
5854	6941072.28	2441687.487	91.3599	CHK	ok	
5855	6941309.914	2441912.661	91.5634	PRP	ok - 38 feet from PRP shot 5856	1049+37, Lt
5856	6941339.266	2441937.419	90.7072	PRP	ok - 38 feet from PRP shot 5855	1049+75, Lt
5857	6941373.938	2442135.82	94.4036	MONA	ok	
5858	6941483.522	2442220.422	95.0054	MONA	ok	
5859	6941461.189	2442043.571	92.4554	PRP	ok	
5860	6941471.638	2442025.078	92.2228	1/2IRSC	iron rod set	
5861	6941612.154	2442175.72	92.4662	PRP	ok - 6.2' from row	
5862	6941688.612	2442234.721	92.1683	CHK	ok	
5863	6941786.912	2442331.061	92.2268	PRP	ok - 6.5' from row	
5864	6941913.546	2442465.227	92.403	PRP	Located in the pavement area	1057+55, Lt
5865	6941957.588	2442542.715	94.119	5/8IRFC	0.5' from original survey by others which should not be used for accuracy.	
5866	6941786.925	2442331.038	92.2003	CHK	ok	
5867	6942075.218	2442607.257	90.3572	PRP	Located in the pavement area	1059+70, Lt
5868	6942113.486	2442621.205	89.5902	PRP	ok 6.5' from row	
5869	6942158.821	2442714.133	92.478	5/8IRF	ok	
5870	6942230.19	2442747.583	91.1802	PRP	Located in the pavement area	1061+80, Lt
5871	6942278.282	2442767.658	89.371	PRP	ok 6.5' from row	
5872	6942445.03	2442915.724	88.7844	PRP	ok 6.4' from row	
5873	6942614.538	2443066.317	88.968	PRP	ok 6.3' from row	
5874	6942760.597	2443187.667	90.9928	CHK	good	
5875	6942782.971	2443214.894	91.481	PRP	ok 6.4' from row; 40' from PRP shot 5876	1069+03, Lt
5876	6942813.445	2443240.453	91.4708	PRP	ok 6.4' from row; 40' from PRP shot 5875	1069+43, Lt
5877	6942972.085	2443373.83	93.4435	PRP	ok 6.4' from row	
5878	6943064.68	2443434.787	91.2716	60DS	60d set	
5879	6942972.118	2443373.807	93.415	CHK	ok	
5880	6943061.958	2443392.572	91.4207	XCS	x-cut set	
5881	6943129.365	2443506.328	91.184	PRP	ok - 6.7' from row; 5.6' from gas main	
5882	6943186.975	2443545.917	90.3687	CHK	ok	
5883	6943264.591	2443619.105	90.4682	PRP	not ok - 6.6' from row; 1.0' from gas main	1075+34, Lt
5884	6943598.087	2443895.996	92.9755	PRP	ok 6.3' from row	
5885	6943764.69	2444034.659	97.3405	PRP	ok 6.4' from row	
5886	6944090.109	2444305.387	105.5396	PRP	ok 6.5' from row	
5887	6944115.494	2444326.089	107.2791	PGW	ok	
5888	6944121.238	2444330.861	107.9958	PGW	ok	
5899	6944137.022	2444447.579	113.8001	CHK	ok	
5900	6944306.583	2444434.354	109.2452	1/2IRFC	1st time to shoot this IR	
5901	6944265.436	2444608.782	122.2728	MONA	ok	
5902	6944294.069	2444636.818	121.9727	MONA	ok	
5903	6944478.953	2444687.795	108.1486	60DS	60d set	
5904	6944137.042	2444447.573	113.8217	CHK	good	
5905	6944326.787	2444664.13	119.5181	MONA	ok	
5906	6944453.059	2444760.631	111.5647	MONA	0.5' from p-k monument	
5907	6944499.794	2444797.486	107.7992	MONA	ok	
5908	6944511.635	2444866.829	107.2562	MONA	0.3' from p-k monument	
5909	6944516.785	2444870.412	105.9778	MONA	ok (0.1' from p-k monument)	
5910	6944601.219	2444927.347	105.6451	MONA	ok (0.1' from p-k monument)	
5911	6944710.443	2444913.849	101.2456	MONA	ok	

Mountain Creek Parkway - MCIP 40202

Survey Shots of Proposed (& some exist.) Power Pole and Guy Wire Locations
Survey Shots by Dallas County Surveyor

Point Number	*Power Pole or Guy Wire*	*Comment*
5003	GW	In the proposed pavement area
5004	GW	In the proposed pavement area
5005	PP	In the proposed pavement area
5013	GW	Outside the ROW (6.0')
5020	PP	In the proposed pavement area
5030	GW	In the future sidewalk area
5034	PP	(cut = 4')
5051	GW	In the proposed pavement area
5052	GW	In the proposed pavement area
5069	PP	(fill = 7')
5091	GW	In the proposed pavement area
5098	PP	Outside the ROW (2.5')
5120	GW	In the pavement area
5139	GW	In the fill area adjacent to the proposed bridge (fill = 12' to 13')
5140	GW	In the fill area adjacent to the proposed bridge (fill = 12' to 13')
5141	GW	In the fill area adjacent to the proposed bridge (fill = 12' to 13')
5142	PP	In the proposed bridge structure area
5143	PP	In fill area (fill = 12' to 13')
5144	GW	In fill area (fill = 12' to 13')
5148	GW	In fill area (fill = 8')
5149	PP	In fill area (fill = 8')
5156	GW	Outside the ROW (5.5')
5157	PP	Appears to be over the existing 72" diam TRA sewer main. May not be able to do anything about this.
5161	PP	Appears to be over the existing 72" diam TRA sewer main. May not be able to do anything about this.
5162	PP	Appears to be over the existing 72" diam TRA sewer main. May not be able to do anything about this.
5185	PP	(fill = 7')
5197	GW	In the future sidewalk area & in the area of Retaining Wall 5. This is a very limited area because of the retaining wall. Needs careful examination.
5198	GW	In the future sidewalk area & in the area of Retaining Wall 5. This is a very limited area because of the retaining wall. Needs careful examination.
5201	GW	In the proposed bridge structure area
5202	PP	In the proposed bridge structure area
5203	GW	In the proposed bridge structure area
5213	PP	In the proposed pavement area
5214	GW	In the proposed pavement area
5215	GW	In the proposed pavement area
5221	GW	In the proposed pavement area
5222	PP	In the proposed pavement area
5224	PP	In the proposed pavement area
5231	GW	Same as point 5051 except installed now
5232	GW	Same as point 5052 except installed now
5233	GW	In the proposed pavement area
5244	PP	Outside the ROW (5.9')
5245	PP	On National Cemetery property now. Hopefully this area will be obtained via a trade betweeen the National Cemetery and DBU.
various locations	PP & GW	(fill = 2' to 5')

Mountain Creek Parkway

Results of Identifying Proposed Power Pole Locations Prior to Installation of the Poles

1. Saved Time.

Did not have to halt construction because a power pole or guy wire was in the pavement area, in the foot print of a retaining wall or in the middle of the proposed storm sewer or inlet.

2. Saved Money.

Saved construction delay costs. Saved TXU (Oncor) the cost of relocating power poles.

3. Gained Partnering Relationship with TXU (Oncor) Designer.

By being pro-active in identifying numerous power pole and guy wire locations that would have had to be moved a second time, we gained a valuable partnering relationship with TXU's (Oncor) designer that has proven to be helpful on the rest of the project.

SUSTAINABLE ROW AND UTILITY COORDINATION

Carter Ferguson

- **Sustainability** *Defined*
- **Sustainability** Concepts in *Public Works' Model*
  - Transportation
  - Drainage and Major Distributions
  - Trails and Open Space
  - Neighborhood/Context and Landscaping
  - Utility Corridors
  - Economic Development
- **Public Works** – ROW and Utility Efforts
  - ROW Acquisition
  - Utility Coordination
- *Example Projects*

SUSTAINABLE ROW AND UTILITY COORDINATION

- ***ROW***:

In project development:

…assessing the ROW requirements to meet the current design, and considering reasonable projections of the ROW required to meet long term needs that is cost effective / economically feasible.

- ***Utility:***

incorporating the needs of all municipal and franchise service providers located in the ROW/utility corridor to meet current customer demand and providing flexibility within the corridor for upgrades and expansion to meet longer term needs.

SUSTAINABILITY *Defined*

Sustainability Concepts:

- TRANSPORTATION
- DRAINAGE & MAJOR DISTRIBUTION
- TRAILS & OPEN SPACE
- NEIGHBORHOOD CONNECTIVITY
- UTILITY CORRIDORS
- ECONOMIC DEVELOPMENT

- Under the "Roadmap to a Sustainable Public Right of Way" - the 10 principles of a Sustainable Right of Way
  - ***Involve Stakeholders and Coordinate from Start to Finish***

- Public Works' practices this principle in its ROW acquisitions and utility coordination…

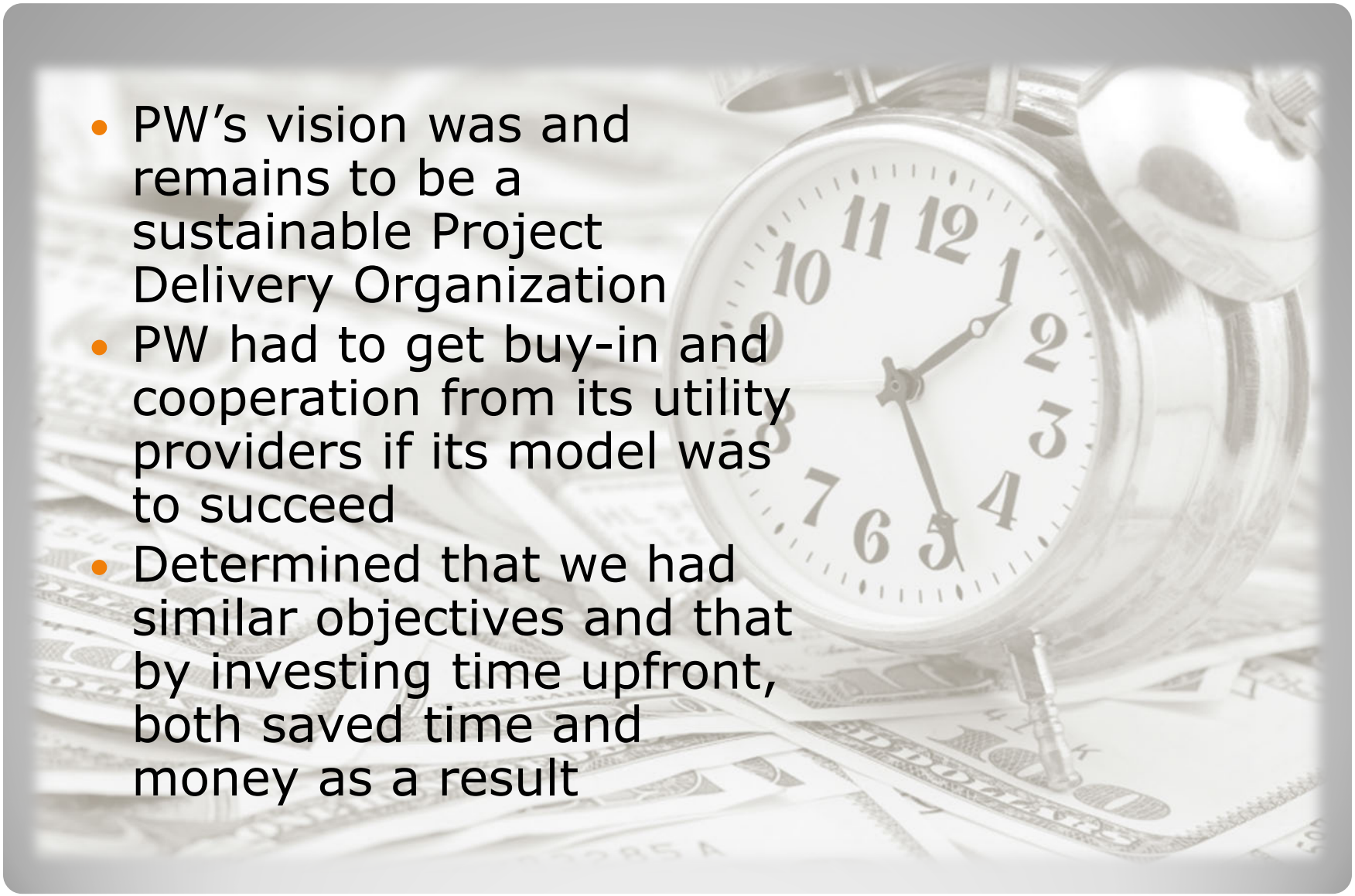
- **Partnering** = *Trust* + *Commitment* + *Shared Vision*

- Building Relationships → Sustaining Relationships

Sustainable ROW and Utility

- Treat the Impacted Property Owners Fairly and with Respect
- Good Estimates and Adequate Schedules
- Direct Contact with Property Owners
- Thorough Acquisition Process
- Agent for Partner Cities
- Planning Phase Needs to Include ROW Acquisition and Utility Conflicts/Betterments

Sustainable ROW and Utility



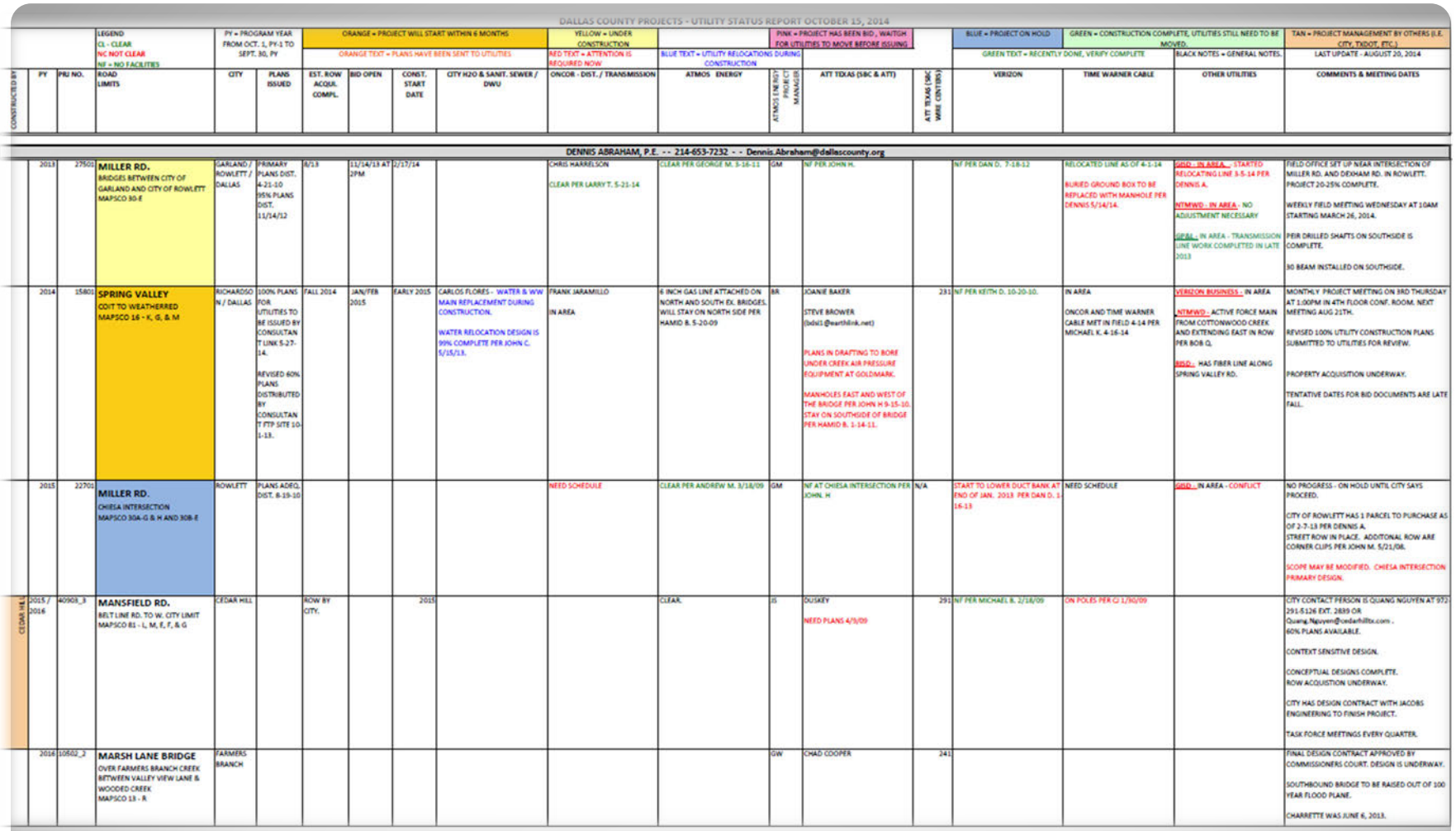
- PW's vision was and remains to be a sustainable Project Delivery Organization
- PW had to get buy-in and cooperation from its utility providers if its model was to succeed
- Determined that we had similar objectives and that by investing time upfront, both saved time and money as a result

Sustainable ROW and Utility

Sustainable ROW and Utility

- Have developed consistent process to gather and release data that meets the project's needs but does not compromise the utility company's data
- Continue to provide accurate information and revise project schedules where needed to help utilities plan their capital budgets and resource allocation
- It requires continued Communication, Collaboration and Cooperation to develop good working relationships with utility providers to achieve any level of Coordination

Communication | Collaboration | Cooperation



DALLAS COUNTY PROJECTS - UTILITY STATUS REPORT OCTOBER 15, 2014

LEGEND
CI - CLEAR
NC NOT CLEAR
NF = NO FACILITIES

PY = PROGRAM YEAR FROM OCT. 1, PY-1 TO SEPT. 30, PY

ORANGE = PROJECT WILL START WITHIN 6 MONTHS
ORANGE TEXT = PLANS HAVE BEEN SENT TO UTILITIES

YELLOW = UNDER CONSTRUCTION
RED TEXT = ATTENTION IS REQUIRED NOW

BLUE TEXT = UTILITY RELOCATIONS DURING CONSTRUCTION

PINK = PROJECT HAS BEEN BID , WAITGH FOR UTILITIES TO MOVE BEFORE ISSUING

BLUE = PROJECT ON HOLD
GREEN TEXT = RECENTLY DONE, VERIFY COMPLETE

GREEN = CONSTRUCTION COMPLETE, UTILITIES STILL NEED TO BE MOVED.
BLACK NOTES = GENERAL NOTES.

TAN = PROJECT MANAGEMENT BY OTHERS (I.E. CITY, TXDOT, ETC.)
LAST UPDATE - AUGUST 20, 2014

CONSTRUCTED BY	PY	PRJ NO.	ROAD LIMITS	CITY	PLANS ISSUED	EST. ROW ACQUI. COMPL.	BID OPEN	CONST. START DATE	CITY H2O & SANIT. SEWER / DWU	ONCOR - DIST. / TRANSMISSION	ATMOS ENERGY	ATMOS ENERGY PROJECT MANAGER	ATT TEXAS (SBC & ATT)	ATT TEXAS (SBC WIRE CENTERS)	VERIZON	TIME WARNER CABLE	OTHER UTILITIES	COMMENTS & MEETING DATES
										DENNIS ABRAHAM, P.E. -- 214-653-7232 - - Dennis.Abraham@dallascounty.org								
	2013	27501	**MILLER RD.** BRIDGES BETWEEN CITY OF GARLAND AND CITY OF ROWLETT MAPSCO 30-E	GARLAND / ROWLETT / DALLAS	PRIMARY PLANS DIST. 4-21-10 95% PLANS DIST. 11/14/12	8/13	11/14/13 AT 2PM	2/17/14		CHRIS HARRELSON CLEAR PER LARRY T. 5-21-14	CLEAR PER GEORGE M. 3-16-11	GM	NF PER JOHN H.		NF PER DAN D. 7-18-12	RELOCATED LINE AS OF 4-1-14 BURIED GROUND BOX TO BE REPLACED WITH MANHOLE PER DENNIS 5/14/14.	GRID - IN AREA - STARTED RELOCATING LINE 3-5-14 PER DENNIS A. NTMWD - IN AREA - NO ADJUSTMENT NECESSARY GP&L - IN AREA - TRANSMISSION LINE WORK COMPLETED IN LATE 2013	FIELD OFFICE SET UP NEAR INTERSECTION OF MILLER RD. AND DEXHAM RD. IN ROWLETT. PROJECT 20-25% COMPLETE. WEEKLY FIELD MEETING WEDNESDAY AT 10AM STARTING MARCH 26, 2014. PIER DRILLED SHAFTS ON SOUTHSIDE IS COMPLETE. 30 BEAM INSTALLED ON SOUTHSIDE.
	2014	15801	**SPRING VALLEY** COIT TO WEATHERRED MAPSCO 16 - K, G, & M	RICHARDSON / DALLAS	100% PLANS FOR UTILITIES TO BE ISSUED BY CONSULTANT LINK 5-27-14. REVISED 60% PLANS DISTRIBUTED BY CONSULTANT FTP SITE 10-1-13.	FALL 2014	JAN/FEB 2015	EARLY 2015	CARLOS FLORES - WATER & WW MAIN REPLACEMENT DURING CONSTRUCTION. WATER RELOCATION DESIGN IS 99% COMPLETE PER JOHN C. 9/15/13.	FRANK JARAMILLO IN AREA	6 INCH GAS LINE ATTACHED ON NORTH AND SOUTH EX. BRIDGES. WILL STAY ON NORTH SIDE PER HAMID B. 5-20-09	BR	JOANIE BAKER STEVE BROWER (bdn1@earthlink.net) PLANS IN DRAFTING TO BORE UNDER CREEK AIR PRESSURE EQUIPMENT AT GOLDMARK. MANHOLES EAST AND WEST OF THE BRIDGE PER JOHN H 9-15-10. STAY ON SOUTHSIDE OF BRIDGE PER HAMID B. 1-14-11.	231	NF PER KEITH D. 10-20-10.	IN AREA ONCOR AND TIME WARNER CABLE MET IN FIELD 4-14 PER MICHAEL K. 4-16-14	VERIZON BUSINESS - IN AREA NTMWD - ACTIVE FORCE MAIN FROM COTTONWOOD CREEK AND EXTENDING EAST IN ROW PER BOB Q. BISD - HAS FIBER LINE ALONG SPRING VALLEY RD.	MONTHLY PROJECT MEETING ON 3RD THURSDAY AT 1:00PM IN 4TH FLOOR CONF. ROOM. NEXT MEETING AUG 21TH. REVISED 100% UTILITY CONSTRUCTION PLANS SUBMITTED TO UTILITIES FOR REVIEW. PROPERTY ACQUISITION UNDERWAY. TENTATIVE DATES FOR BID DOCUMENTS ARE LATE FALL.
	2015	22701	**MILLER RD.** CHIESA INTERSECTION MAPSCO 30A-G & H AND 30B-E	ROWLETT	PLANS ADEQ. DIST. 8-19-10					NEED SCHEDULE	CLEAR PER ANDREW M. 3/18/09	GM	NF AT CHIESA INTERSECTION PER JOHN. H	N/A	START TO LOWER DUCT BANK AT END OF JAN. 2013 PER DAN D. 1-16-13	NEED SCHEDULE	GRID - IN AREA - CONFLICT	NO PROGRESS - ON HOLD UNTIL CITY SAYS PROCEED. CITY OF ROWLETT HAS 1 PARCEL TO PURCHASE AS OF 2-7-13 PER DENNIS A. STREET ROW IN PLACE. ADDITONAL ROW ARE CORNER CLIPS PER JOHN M. 5/21/08. SCOPE MAY BE MODIFIED. CHIESA INTERSECTION PRIMARY DESIGN.
CEDAR HILL	2015 / 2016	40903_3	**MANSFIELD RD.** BELT LINE RD. TO W. CITY LIMIT MAPSCO 81 - L, M, F, F, & G	CEDAR HILL		ROW BY CITY.		2015			CLEAR.	JS	DUSKEY NEED PLANS 4/9/09	291	NF PER MICHAEL B. 2/18/09	ON POLES PER CJ 1/30/09		CITY CONTACT PERSON IS QUANG NGUYEN AT 972 291-5126 EXT. 2889 OR Quang.Nguyen@cedarhilltx.com . 60% PLANS AVAILABLE. CONTEXT SENSITIVE DESIGN. CONCEPTUAL DESIGNS COMPLETE. ROW ACQUISTION UNDERWAY. CITY HAS DESIGN CONTRACT WITH JACOBS ENGINEERING TO FINISH PROJECT. TASK FORCE MEETINGS EVERY QUARTER.
	2016	10602_2	**MARSH LANE BRIDGE** OVER FARMERS BRANCH CREEK BETWEEN VALLEY VIEW LANE & WOODED CREEK MAPSCO 13 - R	FARMERS BRANCH								GW	CHAD COOPER	241				FINAL DESIGN CONTRACT APPROVED BY COMMISSIONERS COURT. DESIGN IS UNDERWAY. SOUTHBOUND BRIDGE TO BE RAISED OUT OF 100 YEAR FLOOD PLANE. CHARRETTE WAS JUNE 6, 2013.

Monthly Utility Report

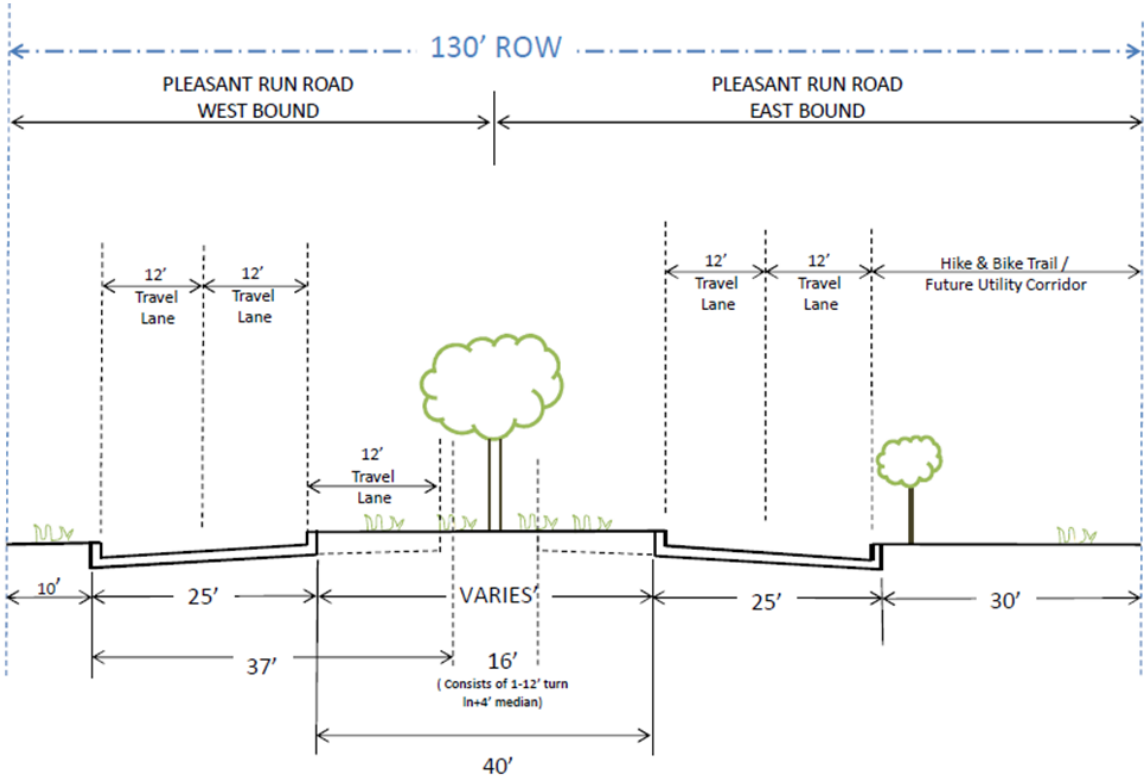
Utility Partnering Breakfast & Awards

Sustainability Concepts

EXAMPLE PROJECTS

- *Pleasant Run Rd.*
- *Pleasant Run Rd. – overpass*
- *Harry Hines Blvd. – pedestrian bridge*

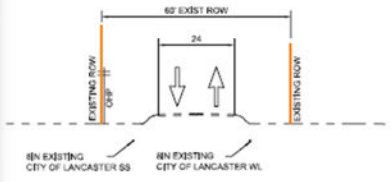
Pleasant Run Road



Proposed Pleasant Run Road Cross Section

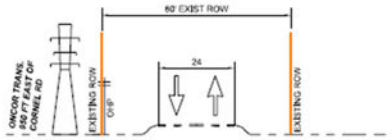
Pleasant Run Road – *Proposed Sections*

Lancaster-Hutchins St to Cornell Rd



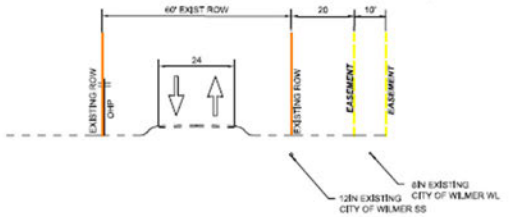
EXISTING

Cornell Rd to Pinto Rd

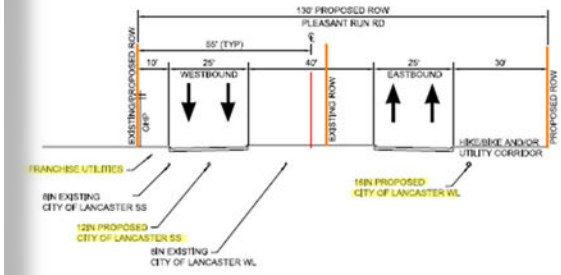


EXISTING

Pinto Rd to Miller Ferry Rd

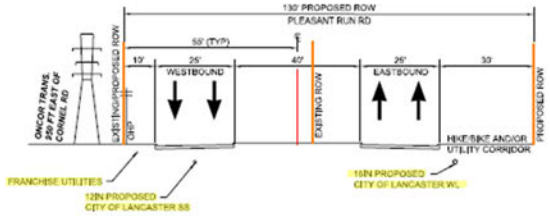


EXISTING



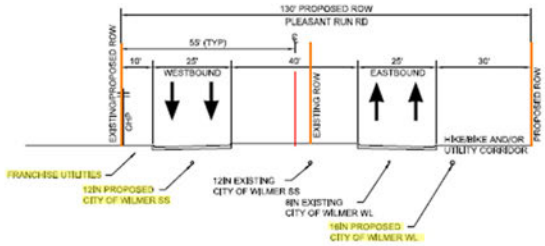
PROPOSED

SECTION 'A-A'
NOT TO SCALE



PROPOSED

SECTION 'B-B'
NOT TO SCALE



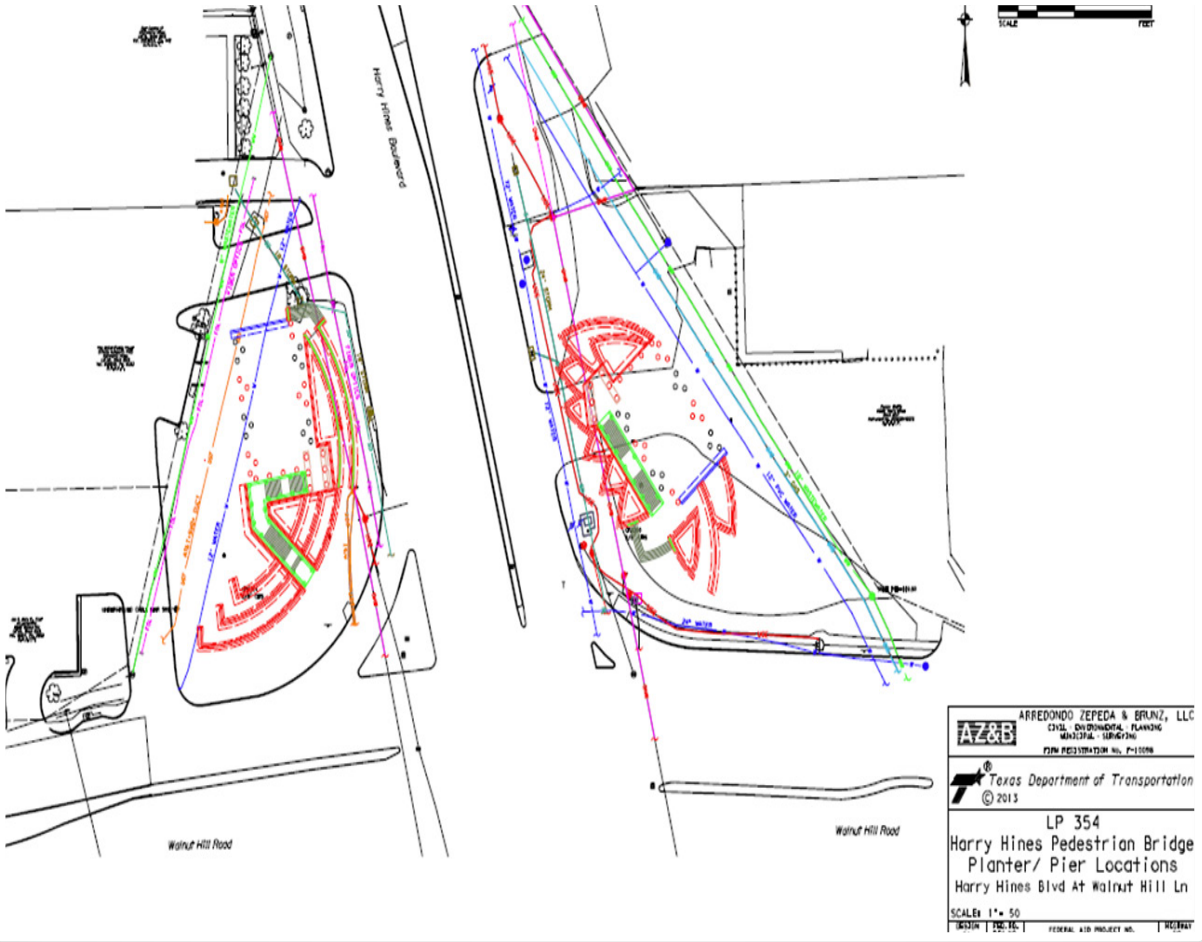
PROPOSED

SECTION 'C-C'
NOT TO SCALE

Pleasant Run Road - Overpass

Harry Hines Pedestrian Bridge

Harry Hines – Utility Sheet



- Sustainability through ROW/ Utility Corridors
  - Feasibility of planning for Future Expansive ROW/Parkways
  - Working with Utilities in Urban Constraints
- Environmental Constraints/Impacts
  - Alignment (*Thinking Out of the Box*)
  - Mitigation / Remediation Policy and Procedures
- Public Acceptance/Influence
  - Understanding that Utility Work is the Beginning of Construction Activities
  - Communication is Key
  - Utilities Being Included as Part of the Public Process in Project Planning and Implementation

Sustainable ROW and Utility Coordination

Partnering to the Next Level

Dallas County NCTCOG Presentation
October 30, 2014
Questions & Answers