



# Bexar County Public Works Department Flood Control Program



Prue Road at  
French Creek (LC-6)

September 24<sup>th</sup>, 2015

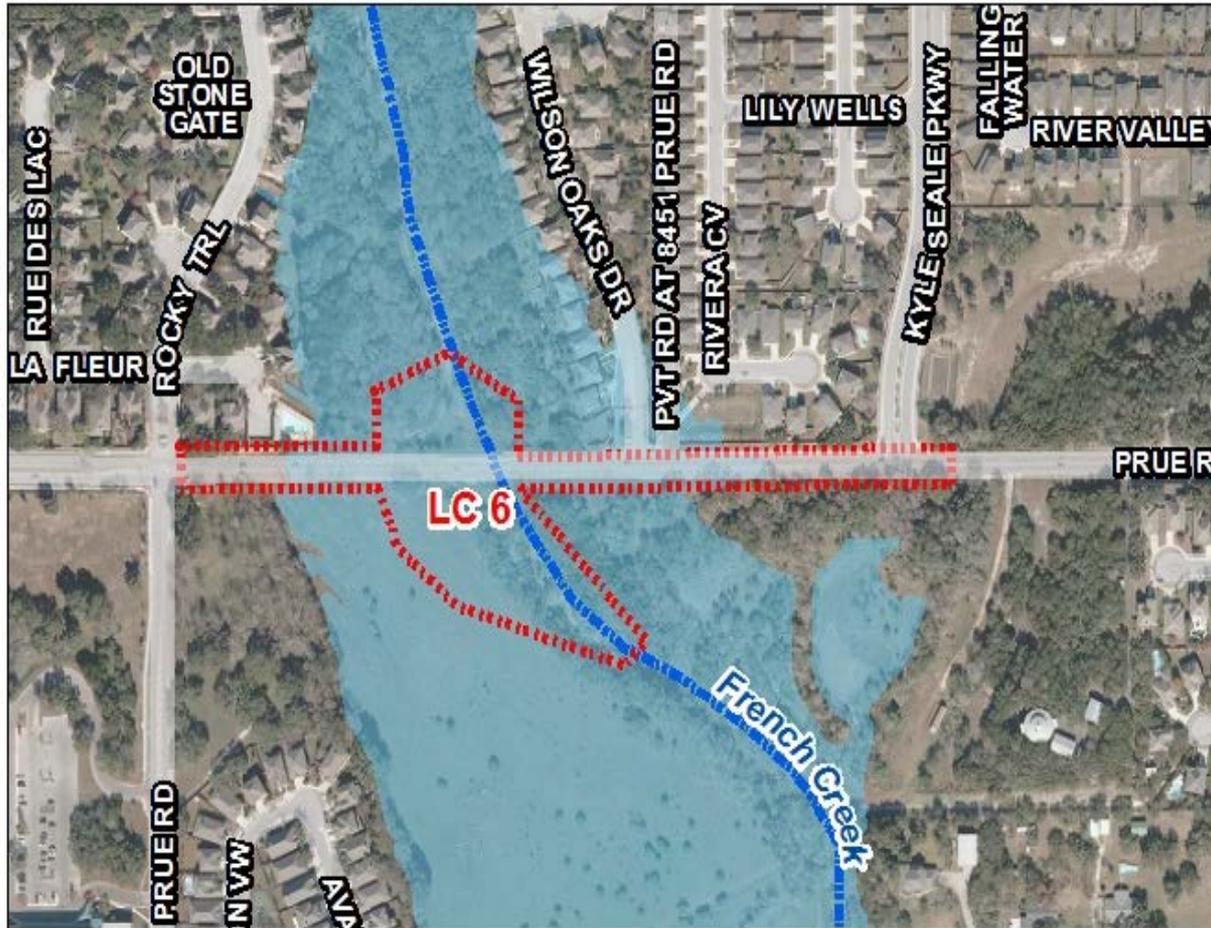
- Introductions
  - Bexar County Flood Control (Engineering and PR)
  - Office of the County Manager (Public Information Officer)
  - Design Consultant (Unitech Consulting Engineers, Inc.)
  - Bexar County Flood Control (Construction Management Team)
  - Construction Inspections (Foster CM Group, Inc.)
  - Material Testing (Raba Kistner Consultants, Inc.)
  - Contractor (Capital Excavation Company)
- Program Background
- Project Details and Construction Schedule
- Q&A

## Bexar County Flood Control Program

- 10-year, \$500 Million Capital Improvement Program
- Currently in year 8 of 10, with numerous projects heading into construction phase.
- The Hill Country is known as flash flood alley, with 1,000 ft. elevation drop across Bexar County.
- Flood Control program works with local municipalities and agencies to deliver projects that alleviate flooding across the region.
- Half of all flood deaths occur in vehicles.
- Turn around, don't drown!



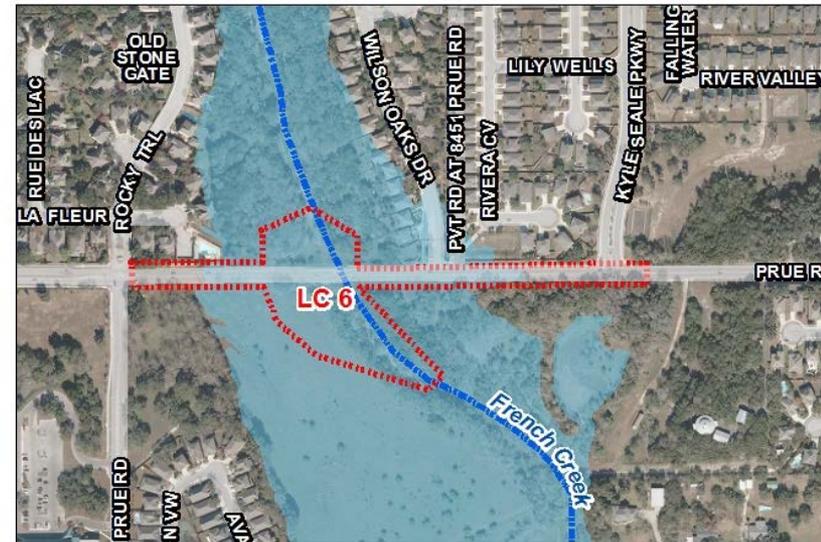
# Project Location



# Project Overview

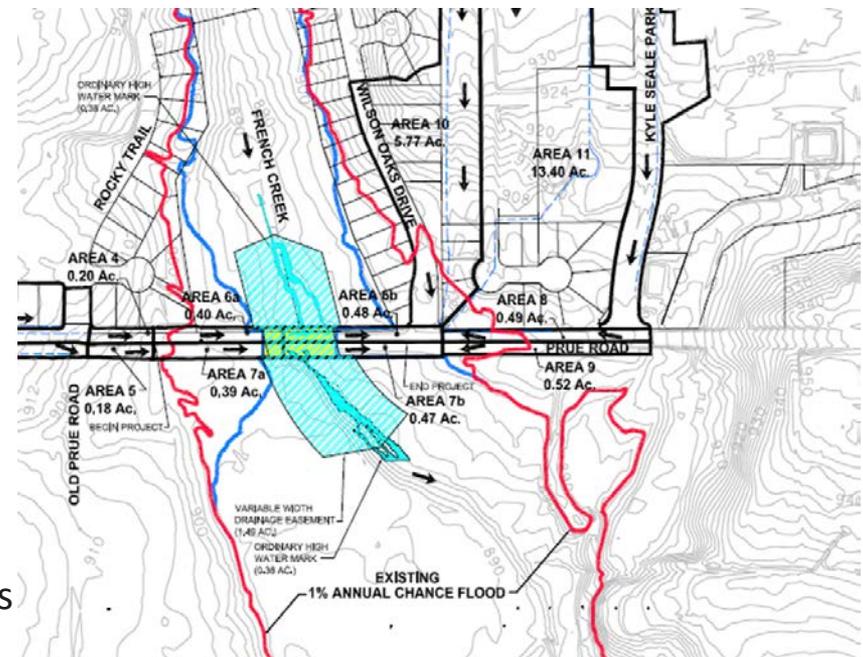


- Prue Road is a high-traffic corridor which floods at French Creek during higher-intensity storm events. Flooding here poses a hazard for the public and emergency responders and necessitates a long detour.
- According to FEMA models and site topography, the bridge will be overtopped by floodwaters by more than 2 feet during the 100-year storm. Be advised that less than 6 inches of water can push cars off the roadway.
- A new span bridge along with channel improvements will solve these problems and enhance safety.
- Joint effort with the City of San Antonio Transportation & Capital Improvements department to finalize lane configurations.
- Bridge will be built wide enough to accommodate up to 5 vehicular travel lanes as well as shared-use bike/pedestrian sidewalks will be installed along roadway.



# Project Benefits

- Bridge will allow for un-flooded vehicular travel across French Creek during the 100-year (1% annual chance) storm event.
- Eliminates the need for barricades and lengthy detour routes during storm events.
- Enhances public safety by:
  - Eliminating existing low water crossing and reducing drowning risk.
  - Allowing emergency responders to travel across French Creek during storms, helping to improve emergency response times.
  - Lowering water surface and removing several residential houses from the FEMA floodplain, removing need for flood insurance.
  - Providing dedicated vehicular acceleration lanes and left turn lanes to reduce collisions.
  - Providing dedicated shared-use sidewalk across French Creek for pedestrian and cyclist safety.



- Existing 100-year floodplain
- Proposed 100-year floodplain





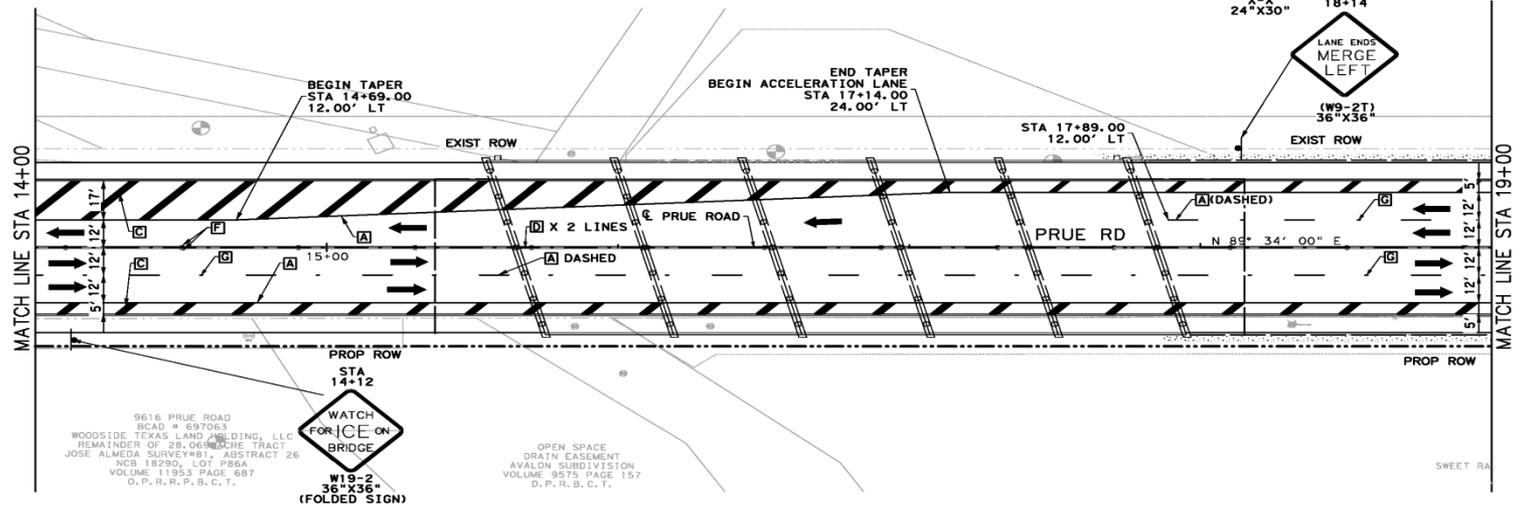
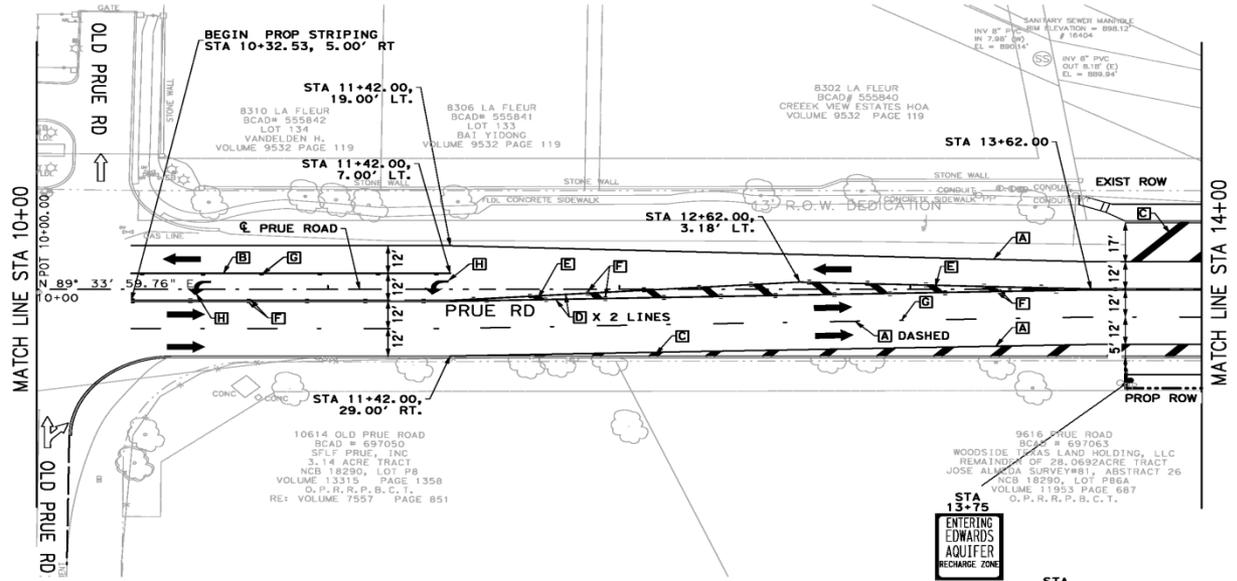
# Project Site Plan



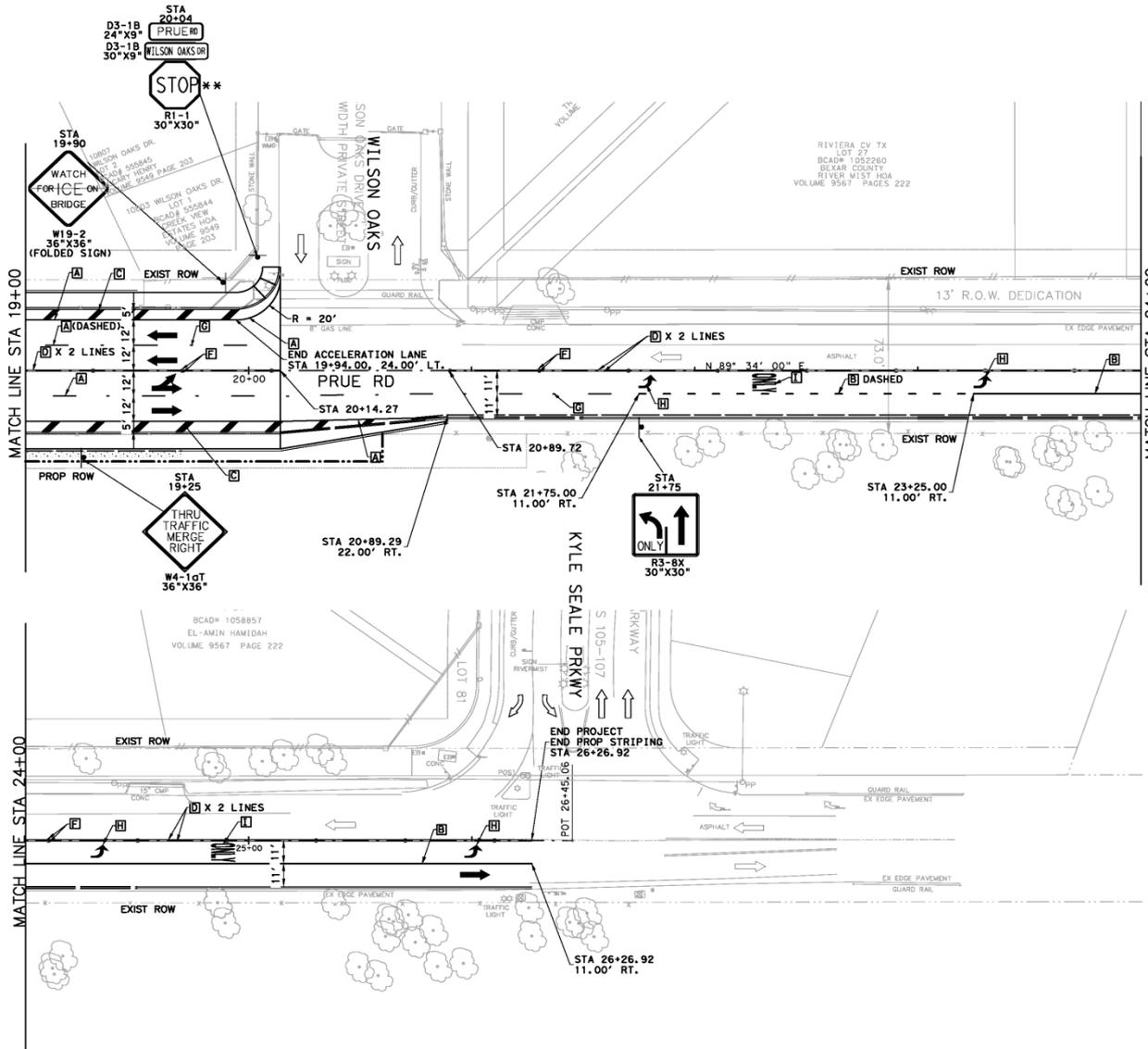
## LEGEND

- A 4 INCH WIDE WHITE LINE
- B 8 INCH WIDE WHITE LINE
- C 24 INCH WIDE WHITE LINE
- D 4 INCH WIDE YELLOW LINE
- E 24 INCH WIDE YELLOW LINE
- F TRAFFIC BUTTON (TYPE II A-A)
- G TRAFFIC BUTTON (TYPE I-C)
- H LEFT WHITE ARROW
- I WORD "ONLY"

- ➔ PROPOSED TRAFFIC FLOW
- ➜ EXISTING TRAFFIC FLOW



# Project Site Plan



## LEGEND

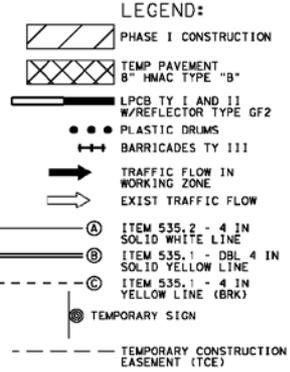
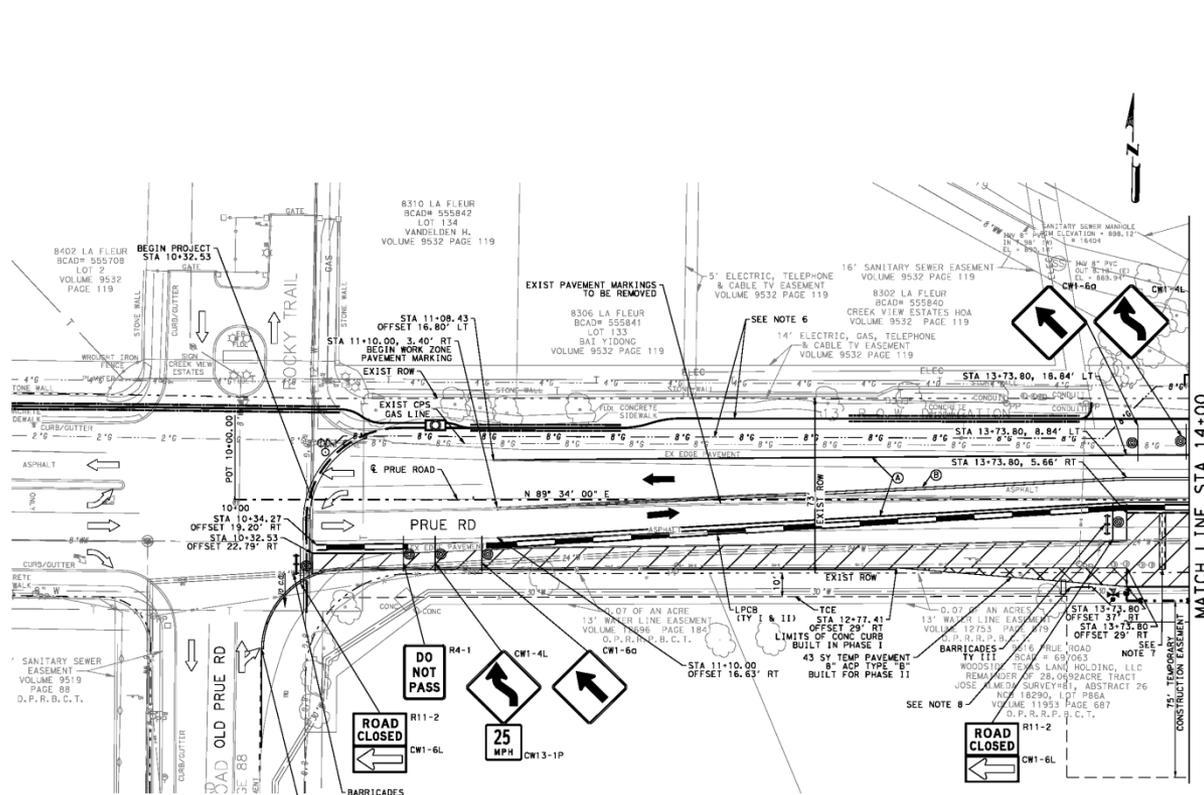
- A 4 INCH WIDE WHITE LINE
- B 8 INCH WIDE WHITE LINE
- C 24 INCH WIDE WHITE LINE
- D 4 INCH WIDE YELLOW LINE
- E 24 INCH WIDE YELLOW LINE
- F TRAFFIC BUTTON (TYPE II A-A)
- G TRAFFIC BUTTON (TYPE I-C)
- H LEFT WHITE ARROW
- I WORD "ONLY"

← PROPOSED TRAFFIC FLOW

⇐ EXISTING TRAFFIC FLOW

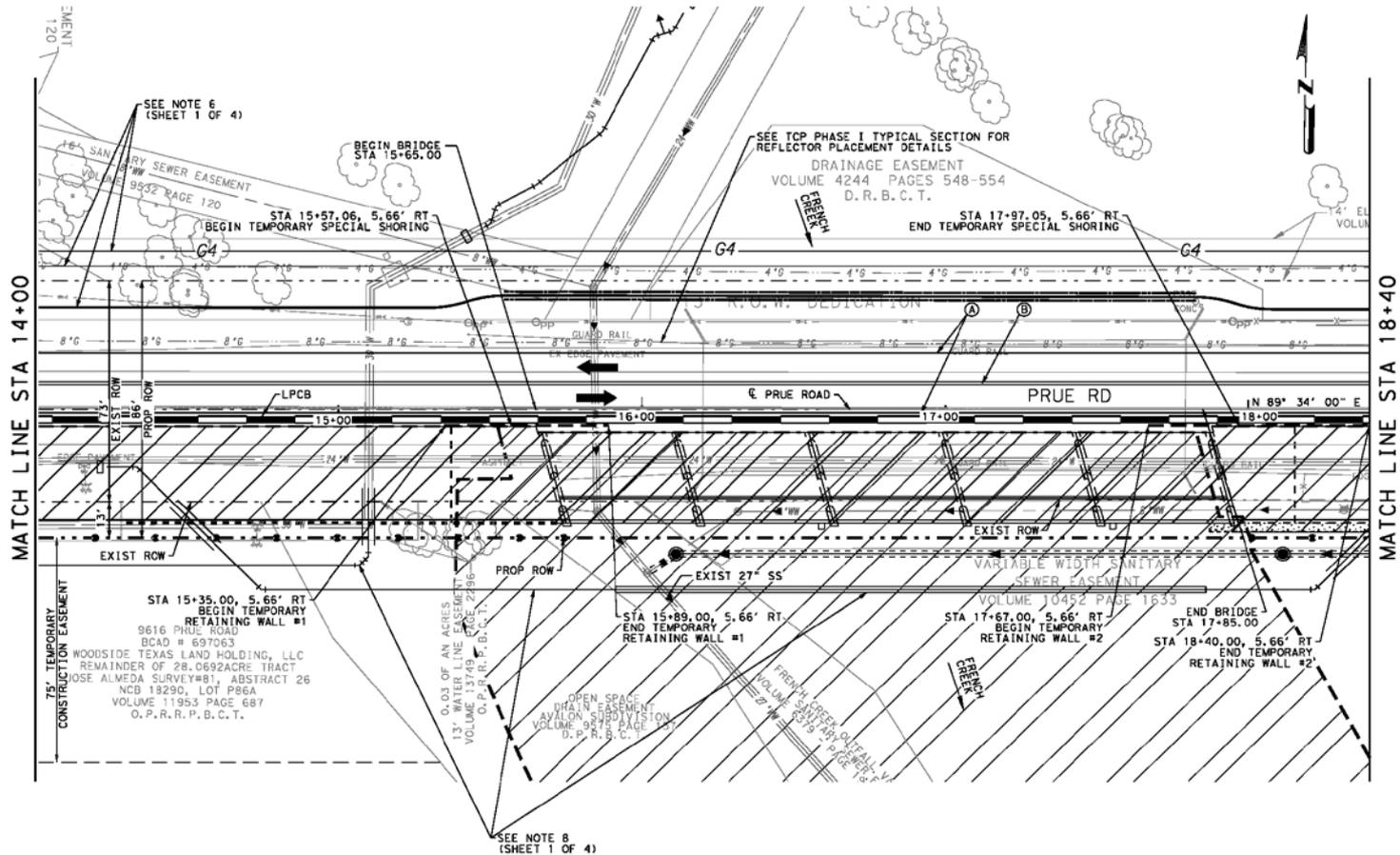


# Traffic Control Plan

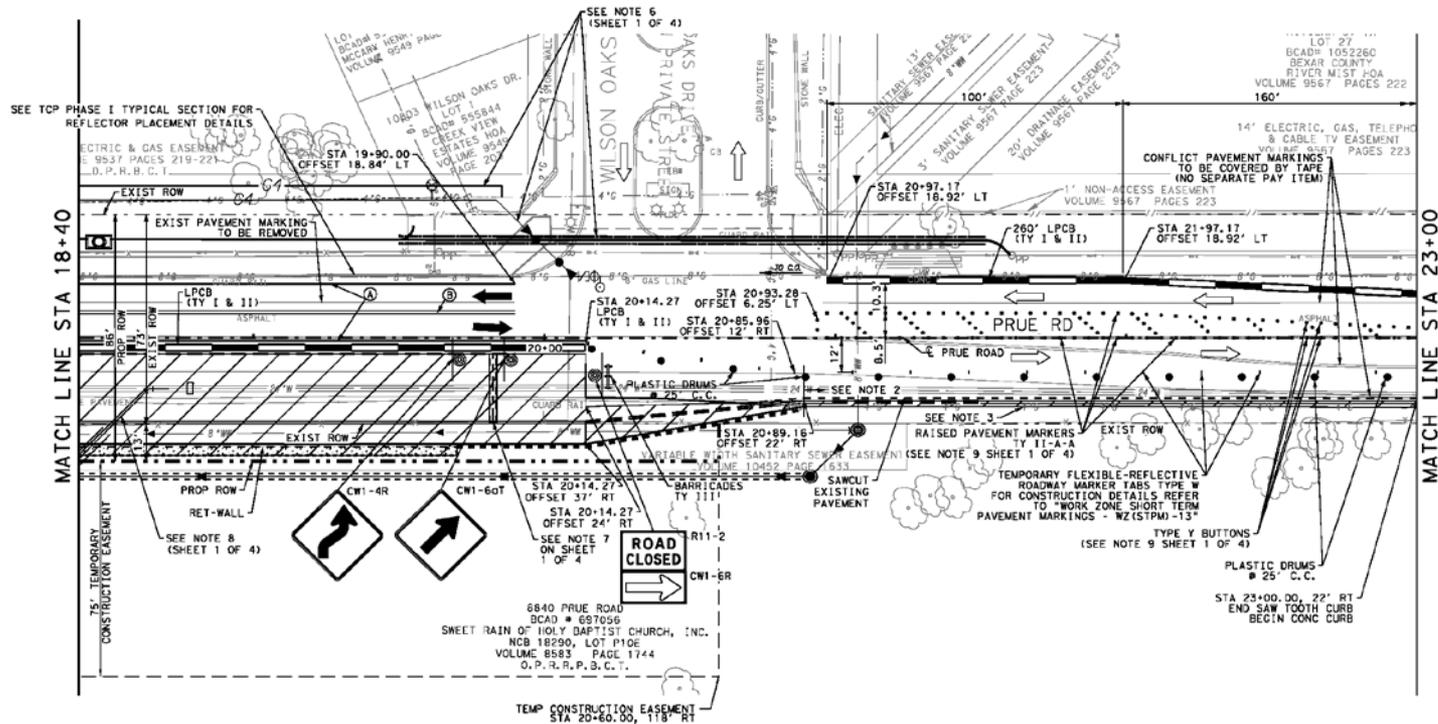


- GENERAL NOTES:**
- REFER TO TCE STANDARD "TCP (2-31-12" AND "TCP (2-71-12" SHEETS FOR ADDITIONAL TRAFFIC CONTROL SIGNS AND DEVICES.
  - REFER TO "SEQUENCE OF CONSTRUCTION NOTES" SHEET FOR PHASING GENERAL NOTES.
  - SEE "SEQUENCE OF CONSTRUCTION (BRIDGE)" AND "TOP TYPICAL SECTION" SHEET FOR BRIDGE AND ROADWAY CONSTRUCTION PHASING DETAILS.
  - REFER TO "PROPOSED ROW & EASEMENT LAYOUT" FOR ROW EASEMENT DETAILS.
  - REFER TO (XDD) "TEMPORARY EARTH RETAINING WALL RW (TEM)" FOR TEMPORARY RETAINING WALL CONSTRUCTION DETAILS.
  - REFER TO "EXIST UTILITY LAYOUT SHEETS" FOR RELOCATED AT&T FIBER OPTIC LINE, CPS (BY GAS LINE) AND OREY FOREST DETAILS.
  - REFER TO COSA INLET STANDARDS FOR INLET CAP AND PHASE CONSTRUCTION DETAILS.
  - SEE SEPARATE SAWS UTILITY PLAN FOR SAWS UTILITY RELOCATION DETAILS.
  - REFER TO "BARRICADES AND CONSTRUCTION PAVEMENT PATTERNS, BC(21-14" STANDARD SHEET FOR RAISED PAVEMENT MARKERS AND TYPE Y BUTTONS PLACEMENT DETAILS.
- 10614 OLD PRUE ROAD  
BCAD # 697050  
S.F.F. PRUE, INC  
3.14 ACRE TRACT  
NCR 18290, LOT P8  
VOLUME 13119, PAGE 1358  
O.P., R.R., P.B. C.T.  
RE1 VOLUME 7557 PAGE 851

# Traffic Control Plan



# Traffic Control Plan





## STATUS

- Bexar County Commissioner's Court has formally approved the construction contract and associated inspections and material testing contracts
- Contractor is finalizing initial submittals and mobilization plan

## SCHEDULE

- Contractor Mobilization – October 2015
- Anticipated construction time – 12 months
- Total Project Cost – \$4.4 Million



# General Information



## Contact Info

Bexar County Flood Control CIP

233 N. Pecos, Suite 480

San Antonio, TX 78207

210.335.7066

## Website

[www.bexarfloodcontrol.org](http://www.bexarfloodcontrol.org)

\*This presentation will be posted on the website