



# Bexar County Public Works Department Flood Control Program



SC-4 Knoll Creek  
Drainage Improvements

February 18, 2015



# SC-4 Knoll Creek



## Meeting Agenda

- Introductions
  - Bexar County Precinct 4 – Chief of Staff
  - Office of the County Manager
  - Bexar County Flood Control (Engineering and PR)
  - Design Consultant (San Antonio Design Group)
  - City of San Antonio
  - Bexar County Flood Control (Construction Team)
- Program Background
- Project Details and Construction Schedule
- Q&A



# SC-4 Knoll Creek



## Knoll Creek: Project Construction Team

BCFC Senior Construction Manager –

Ted Nelson (210) 335-7072

BCFC Project Construction Manager –

Robert (Bert) Williams (210) 335-7077 (Bert is BCFC contact person)

BCFC Onsite Project Inspector –

Foster CM Group

Construction Contractor –

J3 Company, LLC



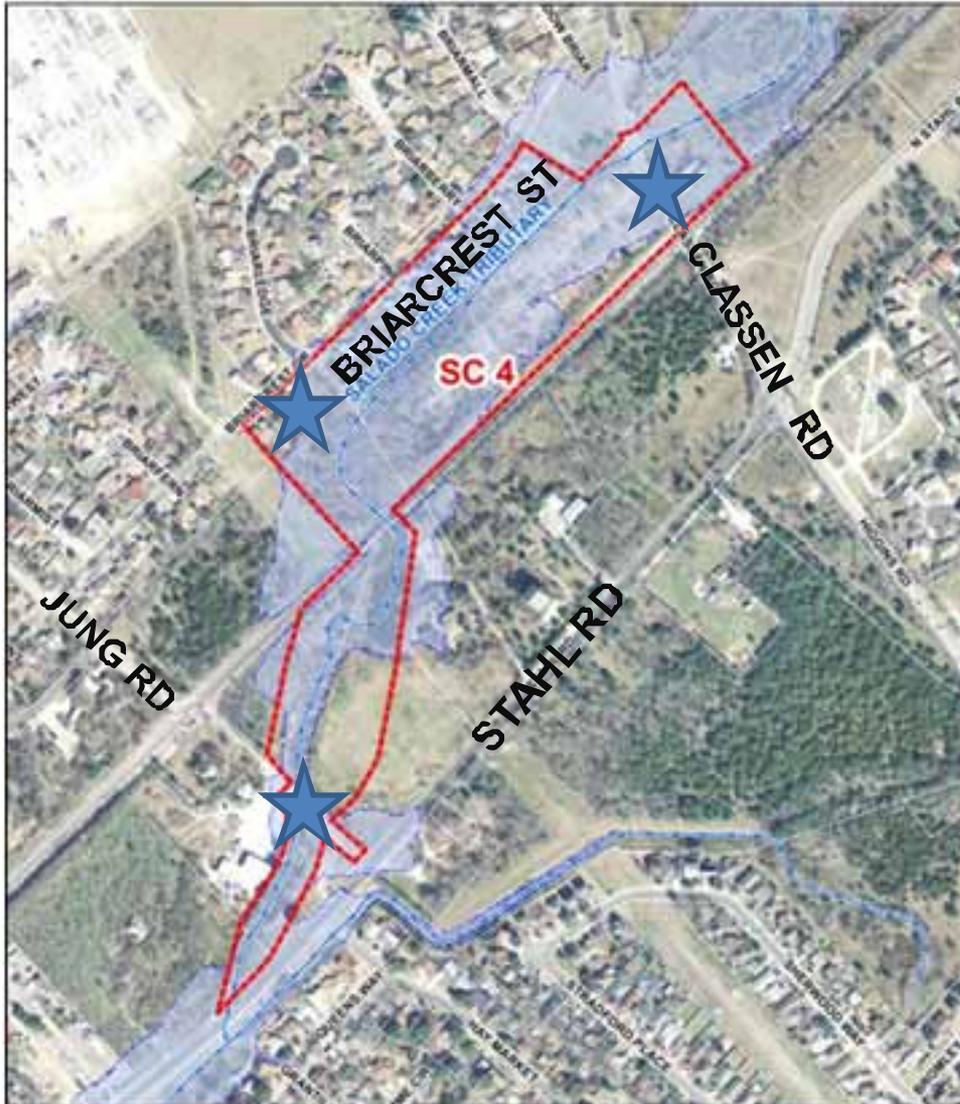
# SC-4 Knoll Creek



## Bexar County Flood Control Program

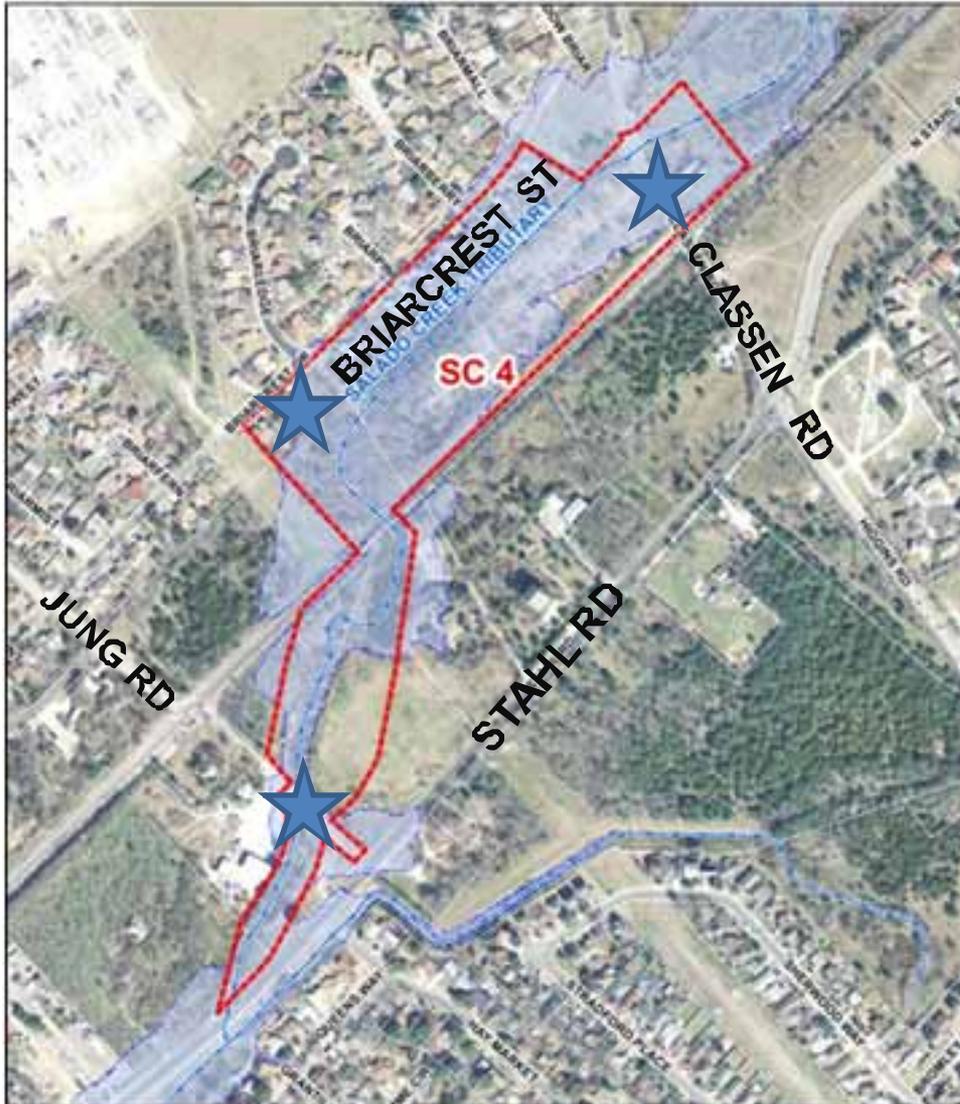
- 10-year, \$500 Million Capital Improvement Program
- In year 8 of 10, with numerous projects heading into construction phase.
- The Hill Country is known as flash flood alley, with 1,000 ft. elevation drop across Bexar County.
- Flood Control program works with local municipalities and agencies to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





## Project Overview

- Construction cost: \$4.45M
- Design Consultant: San Antonio Design Group, Inc. (SADG)
- Eliminating low water crossing on **Jung Rd**, near Stahl Rd.
- Eliminating low water crossing on **Classen Rd.**, between Briarcrest St. and Stahl Rd.
- Enhancing drainage off of **Briarcrest St.**, between Jung Rd. and Classen Rd.
- Drainage channel improvements at new culvert crossings and along Briarcrest St.
- Bexar County Flood Control working with City of San Antonio Transportation and Capital Improvements (TCI) department.



## Project Benefits

- Allows for unflooded vehicular travel across Salado Creek Tributary during storm events up to the 100-year (1% annual chance) storm event.
- Allows emergency responders to safely travel across the Tributary during storm events, improving response times.
- Eliminates the need for barricades and lengthy detour routes during storm events.
- Alleviates water ponding on Briarcrest St.
- In conjunction with the City, the project adds dedicated left turn lane for northbound traffic on Classen Rd. to turn left onto Briarcrest St., improving safety and traffic flow at the intersection.

# SC-4 Knoll Creek

Existing low water crossing at **Jung Rd.** regularly experiences flooding during storm events. New culvert bridge will allow 100-year (1% annual chance) storm event to cross under roadway. Flood study shows that 4.4 ft. of water will top the existing roadway during the 100-year (1%) storm. Less than 6" of water can sweep people off their feet and wash cars downstream. Photos from May 25, 2013 which was a 5-year (25%) to 25-year (4%) storm.



# SC-4 Knoll Creek

Existing low water crossing at **Classen Rd** regularly experiences flooding during storm events. New culvert bridge will allow 100-year (1% annual chance) storm event to cross under roadway. Flood study shows that 4.1 ft. of water will top the existing roadway during the 100-year storm. Photo from May 25, 2013 which was a 5- to 25- year storm.



# SC-4 Knoll Creek

- Typical view along **Briarcrest St.**, between Jung Rd. and Classen Rd, where water accumulates along roadway.
- Drainage channel on the north side of **Briarcrest St.**, near Briarledge St., drains directly onto the street.





# SC-4 Knoll Creek



## Construction Phasing

### – Phase 1

- Construct **Jung Rd.** drainage improvements
  - Road closure: Detour Knollcreek Dr. to Classen Rd to Stahl Rd
  - Construction duration is approximately 6 months
- Phase 1 anticipated to run **Feb 2015 to Aug 2015**

### – Phase 2

- Construct **Classen Rd.** drainage improvements
  - Classen Road Closure: Detour through Knollcreek Dr. to Jung Rd to Stahl Rd
  - Construction duration is approximately 6 months
- Construct drainage improvements along **Briarcrest St.**
  - Briarcrest St. remain open during construction activities
- Phase 2 anticipated to run **Aug 2015 through Feb 2016**

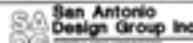
## Jung Road Detour Plan



### SHEET LEGEND

TRAFFIC FLOW ARROW	→
TRAFFIC BARRICADES	⊥
ROAD CLOSED AHEAD SIGN (CW20-3D)	◇
DETOUR AHEAD SIGN (CW20-2D)	◇
DETOUR RIGHT SIGN (M4-9R)	◇
DETOUR LEFT SIGN (M4-9L)	◇
DETOUR STRAIGHT AHEAD SIGN (M4-9S)	◇
ROAD CLOSED SIGN (R11-2)	◇
END DETOUR SIGN (M4-8a)	◇
TEMP. STREET NAME SIGN (M4-9N)	◇
JUNG RD CLOSED AT BRIARCREST G20-SPL	◇
ROAD CLOSED TO THRU TRAFFIC (R11-4)	◇
PORTABLE MESSAGE BOARD (NSPI)	◇

GENERAL NOTE:  
1. LOCATION OF ALL SIGNS TO BE  
APPROVED BY COUNTY SUPERVISOR.

 <i>John</i> <i>Michael</i>		
BEXAR COUNTY PUBLIC WORKS DEPARTMENT FLOOD CONTROL DIVISION		
NO. DATE	DESCRIPTION	APPROVED
SC4 KNOLL CREEK DETOUR PLAN PHASE 1 - JUNG ROAD		
		
 <b>San Antonio Design Group Inc.</b> <small>DESIGNER OF RECORD FOR THE          SC4 KNOLL CREEK FLOOD CONTROL          PROJECTS BEING FULFILLED BY          THIS SHEET</small>		
DATE	BY	CHECKED

## Classen Road Detour Plan



### SHEET LEGEND

TRAFFIC FLOW ARROW	→
TRAFFIC BARRICADES	
ROAD CLOSED AHEAD SIGN (CW20-3D)	◇
DETOUR AHEAD SIGN (CW20-2D)	◇
DETOUR RIGHT SIGN (M4-9R)	◇
DETOUR LEFT SIGN (M4-9L)	◇
DETOUR STRAIGHT AHEAD SIGN (M4-9S)	◇
ROAD CLOSED SIGN (R11-2)	◇
END DETOUR SIGN (M4-8a)	◇
TEMP. STREET NAME SIGN (M4-9N)	◇
AT BRIARCREST (G20-SPL)	◇
ROAD CLOSED TO THRU TRAFFIC (RH-4)	◇
PORTABLE MESSAGE BOARD (NSPI)	◇

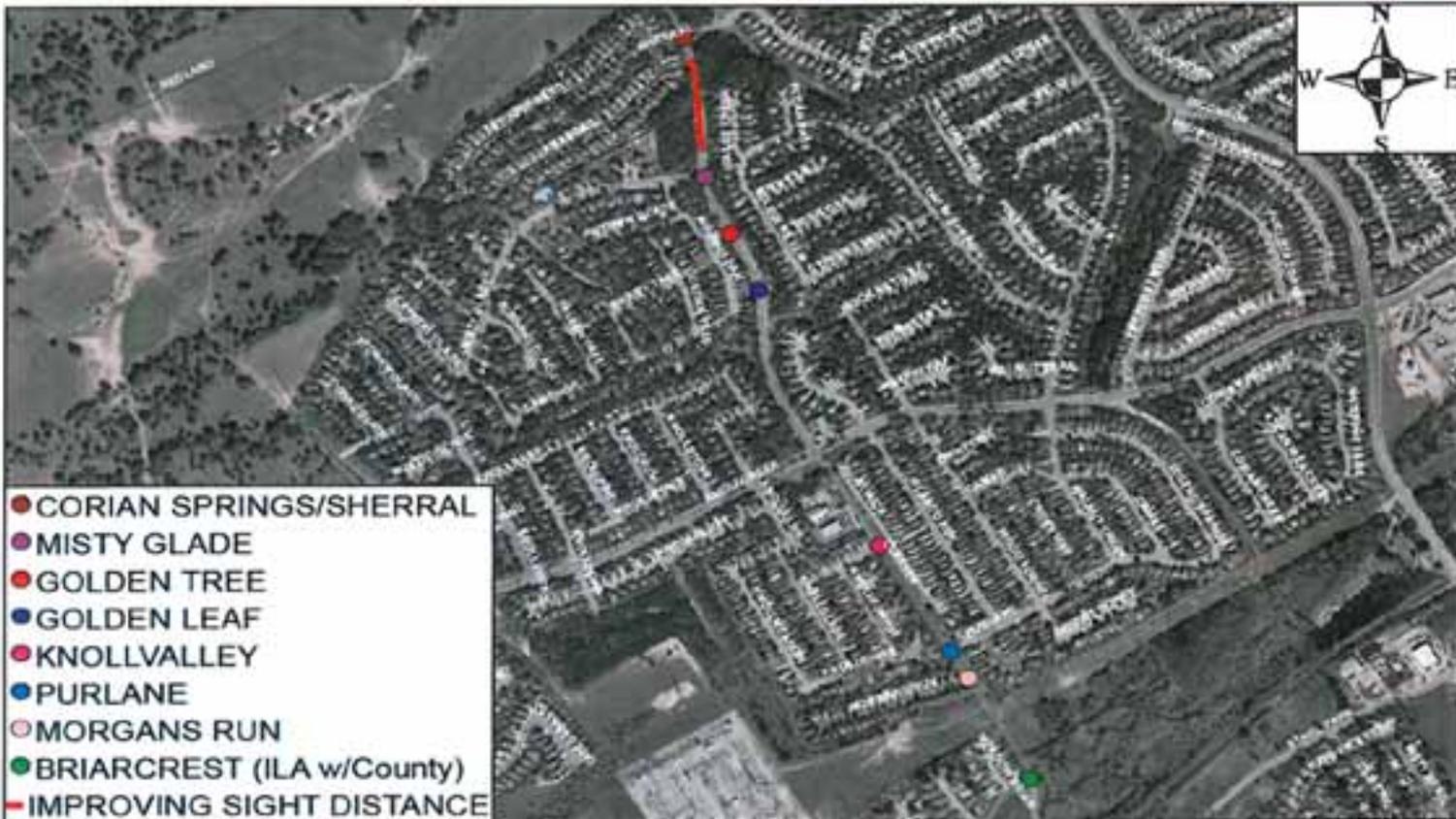
GENERAL NOTE:  
1) LOCATION OF ALL SIGNS TO BE  
APPROVED BY COUNTY INSPECTOR

 9-12-12 <i>Alfred A. Hargrave</i>		
 BEXAR COUNTY PUBLIC WORKS DEPARTMENT FLOOD CONTROL DIVISION		
NO. DATE	DESCRIPTION	SCALE
	SC4 KNOLL CREEK DETOUR PLAN PHASE 2 - CLASSEN ROAD	0 100 200 300 400 ft. 1"=100'
 <b>San Antonio Design Group Inc.</b> CIVIL & ENVIRONMENTAL ENGINEERS 12704 SPRINGFIELD DRIVE, SUITE 100 SAN ANTONIO, TEXAS 78230 PHONE 214-495-1443 FAX 214-495-6700		
DATE	SCALE	SHEET NO.
12-12-12	AS SHOWN	22 OF 242

## COSA Higgens Project



### Location Map





# SC-4 Knoll Creek



## Contact Info

Bexar County Flood Control CIP  
233 N. Pecos, Suite 480  
San Antonio, TX 78207  
210.335.7066

City of San Antonio  
TCI Department  
Joey Doctor  
210.207.8415

## Website

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

Presentation will be posted on the website