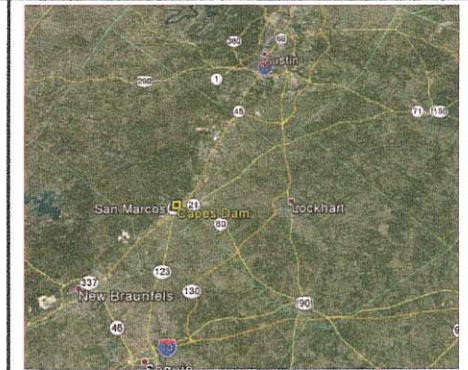
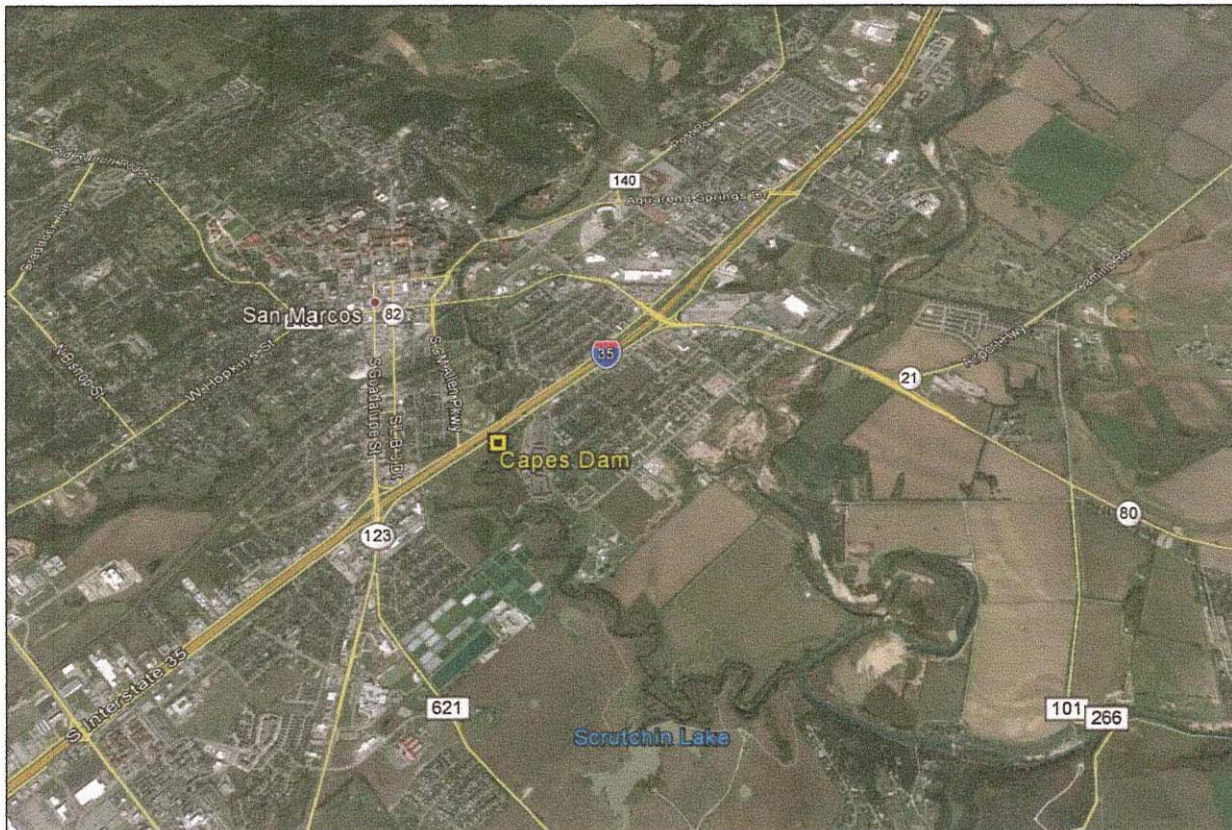




# U.S. FISH & WILDLIFE SERVICE

## SAN MARCOS, TEXAS

### CAPE DAM-BREACH & CHANNEL RESTORATION



VICINITY MAP  
NO SCALE

DRAWING INDEX

SHEET NO.	DRAWING TITLE
1 OF 7	VICINITY MAP, SITE PLAN AND DRAWING INDEX
2 OF 7	EXISTING SITE, ALIGNMENT & SECTION LINE SAMPLING LOCATIONS
3 OF 7	EXISTING SITE PHOTOS
4 OF 7	EXISTING & PROPOSED ALIGNMENT PROFILE DETAILS
5 OF 7	EXISTING SITE SECTION LINE DETAILS
6 OF 7	PROPOSED SITE SECTION LINE DETAILS AT DAM
7 OF 7	MILL RACE GRADE CONTROL & EROSION CONTROL DETAILS
8 OF X	PLAN DETAILS
9 OF X	PLAN DETAILS
10 OF X	PLAN DETAILS
11 OF X	PLAN DETAILS
12 OF X	PLAN DETAILS
13 OF X	PLAN DETAILS
14 OF X	PLAN DETAILS

Do Sheets 8 thru 14 of Plan Details exist?  
If yes, may we have copies?

UNITED STATES DEPARTMENT OF THE INTERIOR  
FISH AND WILDLIFE SERVICE  
REGION 6 ENGINEERING - DENVER, COLORADO

REGIONAL ENGINEER	DATE	SAN MARCOS, TEXAS	
PROGRAM SUPERVISOR	DATE	SAN MARCOS, RIVER	
ASST. REGIONAL DIR.	DATE	HAYS	TEXAS
DIVISION	INITIALS / DATE	CAPE DAM-BREACH & CHANNEL RESTORATION	
		VICINITY MAP, SITE PLAN AND DRAWING INDEX	
DESIGNED	W. STANCILL	DRAWN	W. STANCILL
CHECKED	W. RICE		
DATE	APRIL 2016	PROJECT NO.	6R-TX-2016-002
		SHEET 1 OF 7	

Engineering Firm USFWS  
 Project Engineer Wayne Stancill Texas PE License Number WY PE 15287  
 Engineering Firm Address 420 S. Garfield Ave Ste 400  
 City Pierre State SD Zip Code 57501  
 Phone (605) 224-8693 Fax ( )  
 E-mail wayne\_stancill@fws.gov

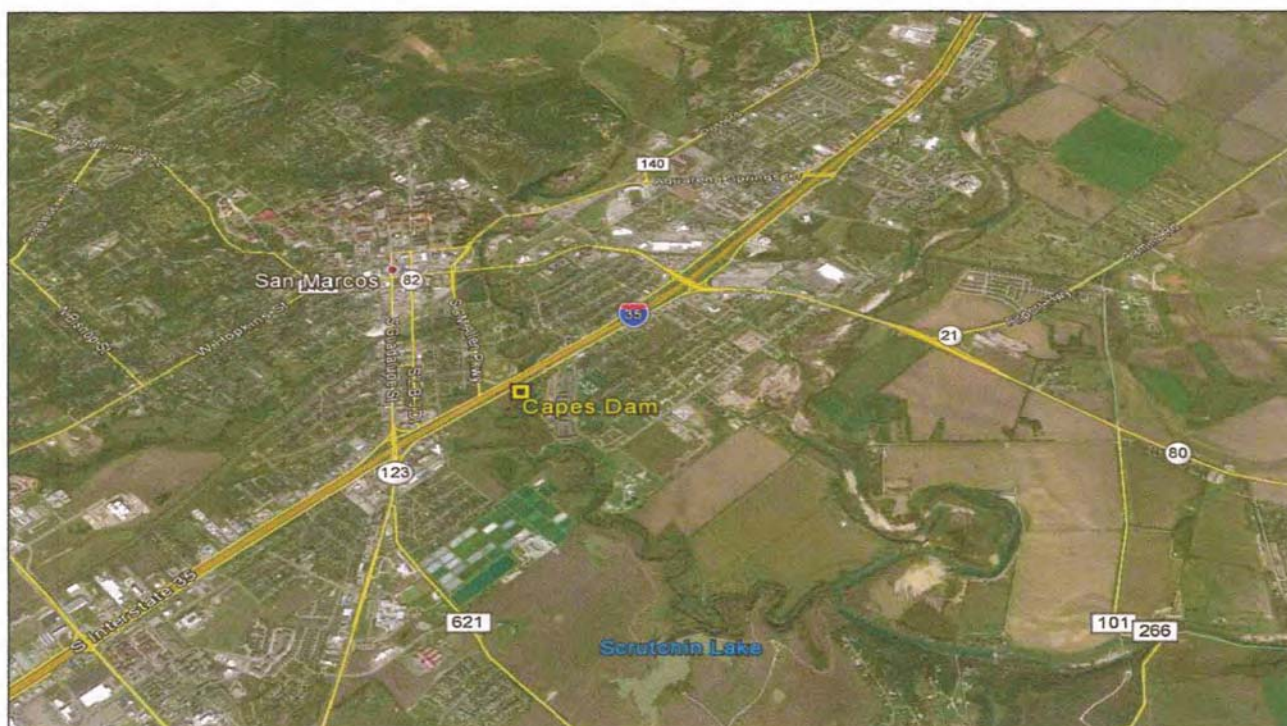
This report was designed & drawn by W Stancill and checked by W Rice in a date that appears to be April 2016. We know from the TCEQ Information Sheet filed May 3, 2016 (see left) that Wayne Stancill is an 1) employee of/contractor to USFWS; and 2) lives in South Dakota. Why is a Pierre, South Dakota-based USFWS engineer being used on a Central Texas river? Does USFWS not employ a single engineer within Texas?



# U.S. FISH & WILDLIFE SERVICE

## SAN MARCOS, TEXAS

### CAPE DAM-BREACH & CHANNEL RESTORATION



**Figure 1a. Project Area Map (above) as depicted in US Fish & Wildlife Service (USFWS) report dated April 2016.**

This USFWS report was presented to 1) San Marcos Mayor & City Council on Aug 16, 2016; 2) Texas Parks and Wildlife Department (TPWD) as part of their Sand and Gravel Permit – filed on May 18, 2016 in order to remove Capes Dam; and 3) Texas Commission on Environmental Quality (TCEQ) filed on May 3, 2016 as part of the statutory requirements of Texas Administrative Code, Chapter 299, Dams and Reservoirs.

This project aerial photograph is deficient because 1) Mis-identifies the location of Capes Dam, the subject of the report, as being directly next to I-35; 2) is taken at such a high elevation that it doesn't show any detail; and 3) is mis-appropriately named “Capes Dam-Breach & Channel Restoration.” This report is about *removing* Capes Dam, not channel restoration. The channel will be highly-disturbed, and not restored, for many years after, if Capes Dam is removed.



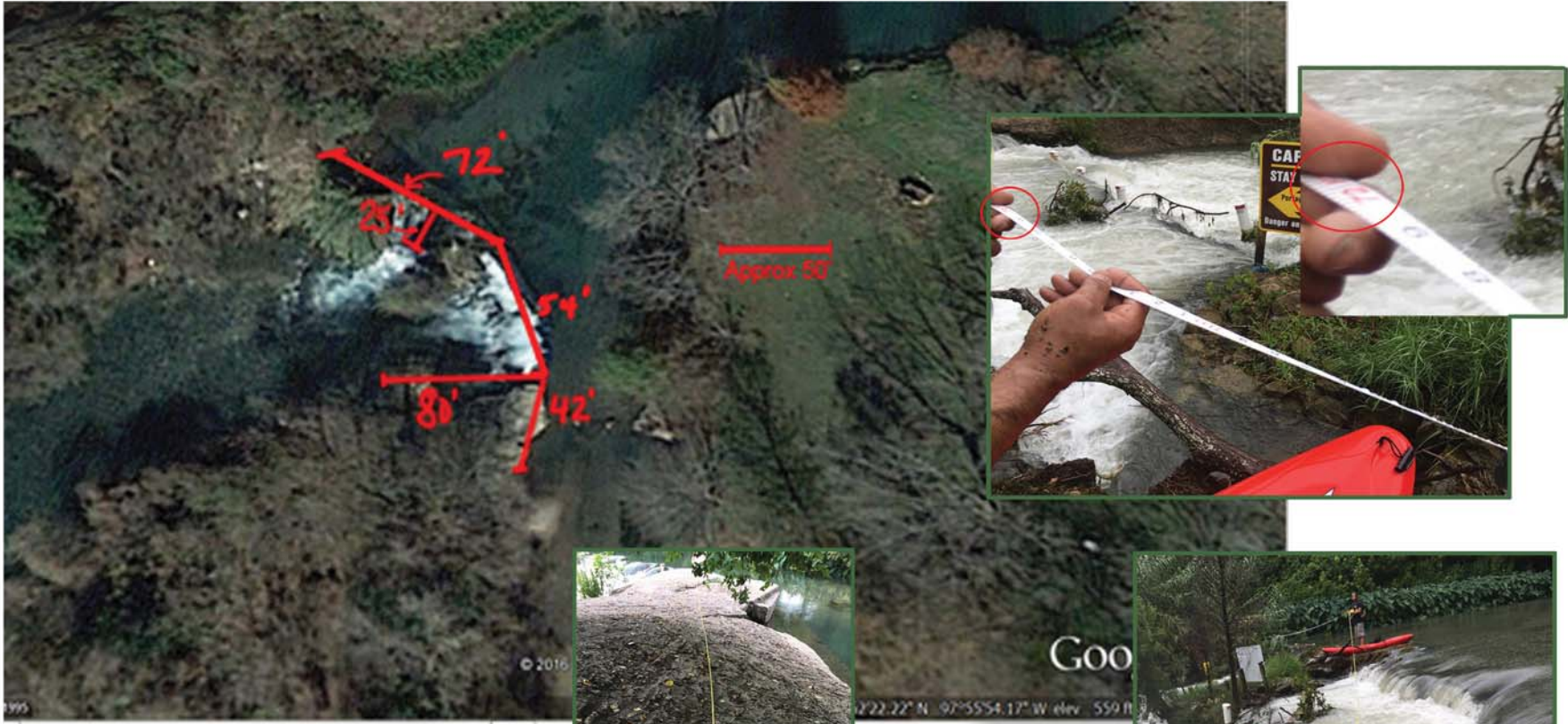
*Figure 1b. Project Area Map (above) as depicted from Google Earth image, 12/16/2015.*

This project aerial photograph remedies the deficiencies shown in Fig 1a -- 1) Capes Dam, the subject of the report, is correctly located; 2) Base photo image is taken at 4950' above ground, as well as offering two inset photos taken at 830' above ground. The photo inset (lower right) provides measurements for the three main lateral parts of Capes Dam, measuring from North to South: 72 ft in linear length, 54 ft, and 42 ft, **for Capes Dam having a total documented measured length of 168 feet.**

# Capes Dam Measurements

Capes Dam was measured by Ben Kvanli and crew on Tuesday, August 16, 2016 at 3pm.

From North to South, 3 segments were measured: 72 ft + 54 ft + 42 ft = **168 feet-Length of Capes Dam**

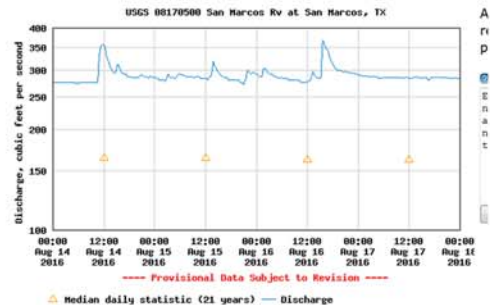


USGS 08170500 San Marcos Rv at San Marcos, TX

Average discharge for 8/16/2016 was 280 CFS

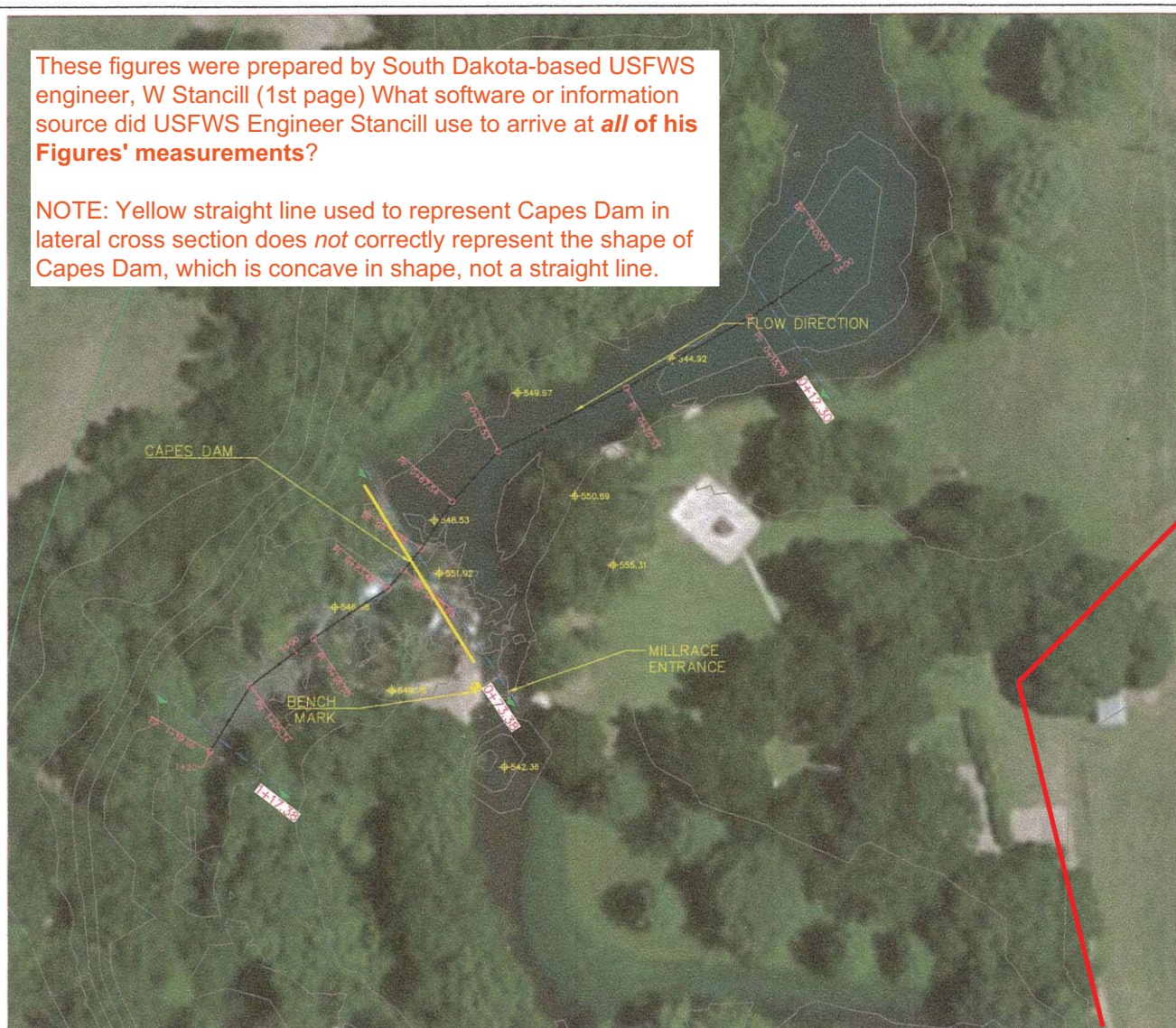
Discharge, cubic feet per second

Most recent instantaneous value: 265 09-18-2016 19:45 CDT



These figures were prepared by South Dakota-based USFWS engineer, W Stancill (1st page) What software or information source did USFWS Engineer Stancill use to arrive at *all of his Figures' measurements?*

NOTE: Yellow straight line used to represent Capes Dam in lateral cross section does *not* correctly represent the shape of Capes Dam, which is concave in shape, not a straight line.



**NOTES**

ALL ELEVATIONS ARE REPORTED AS FEET TIED TO NGVD 88 DATUM.

**DAM**

1. DAM ELEVATION ~ 552.0 +/- 1' WITH PARTIAL BREACHES EVIDENT DUE TO PARTIAL FAILURE DURING FLOOD.

**MILLRACE**

1. MILLRACE WIDTH AT CONCRETE HEADWORKS ~ 20'
2. MILLRACE SILL-ELEVATION: 549.0 +/- 1'.

**BENCH MARK**

1. SEE EXISTING SITE PHOTOS
2. BM ELEVATION: 554.4' VD88

**ALIGNMENT**

1. ALIGNMENT ORIENTATED AT THE APPROXIMATE CHANNEL CENTERLINE LOCATION.
2. ALIGNMENT RUNS FROM STATION 0 + 00 (UPSTREAM LOCATION) TO 1 + 20 (DOWNSTREAM LOCATION).
3. ALIGNMENT SAMPLE POINTS ARE LOCATED AT P.I. POINTS AND DISPLAYED ON SHEET 4.

**SECTION SAMPLE LINES**

1. SECTION LINES WERE SAMPLED AT THREE LOCATIONS ALONG THE ALIGNMENT: UPSTREAM (0 + 12.30), CAPES DAM (0 + 73.38) AND DOWNSTREAM (1 + 17.38).
2. SECTION LINES ARE DISPLAYED ON SHEETS 5 & 6.

Use of outdated photograph; This area now occupied by 24-acre apartment complex with an estimated 80-90% impervious cover, all of which drains its rainwater run-off directly into the San Marcos River (2 drains) or the Mill Race (3 drains.)

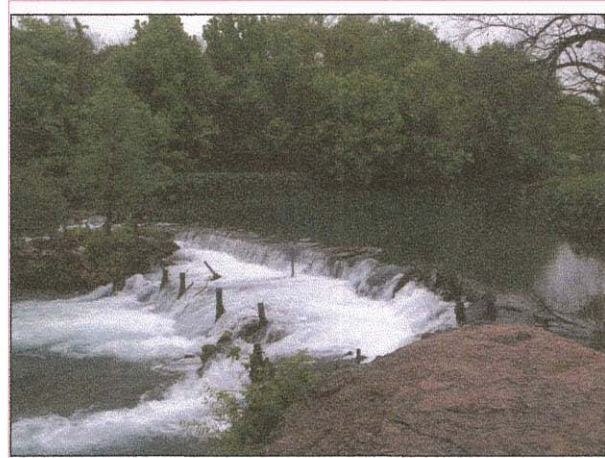
EXISTING SITE  
NO SCALE

SAN MARCOS, TEXAS		EXISTING SITE ALIGNMENT &		SUB-SHEET	
CAPES DAM-BREACH & CHANNEL RESTORATION		SECTION LINE SAMPLING LOCATIONS		2	
DESIGNED	DRAWN	CHECKED	DATE	DRAWING NO.	SHEET
W. STANCILL	W. STANCILL	W. RICE	4/2018	8R-TX-2018-002	2 OF 7

This page commented upon by Ben Kvanli, 16 year adjacent property owner to Capes Dam, former Olympian kayaker & owner-operator of a kayak school who paddles the river daily.



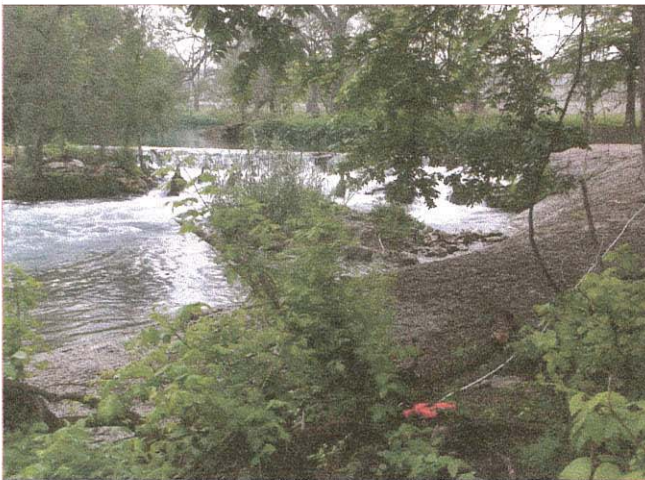
CAPE DAM, ~ 300 CFS, VIEW ACROSS DAM FROM MILLRACE INLET  
See pages 7-9 of this report for documented photos of 266 CFS, 630 CFS, and 400 CFS.



CAPE DAM, ~ 600 CFS, VIEW ACROSS DAM FROM MILLRACE INLET  
These photos are dated April 2016 (see legend below); there was no recorded 600 cfs flow in April 2016.

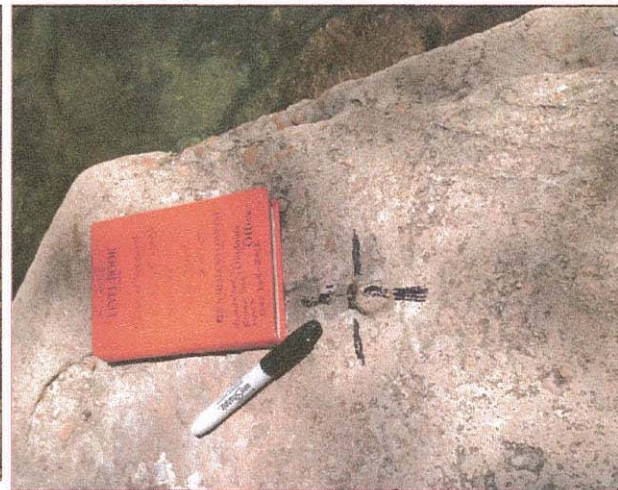


MILLRACE INLET, VIEW DOWNSTREAM TO UPSTREAM  
The pediments of what once was the Mill Race headgate only begin to be visible when water discharge falls below approx. 280 cfs.



CAPE DAM, ~ 600 CFS, VIEW DOWNSTREAM TO UPSTREAM

If this were 600 cfs, the water would be much higher, covering the concrete apron on the north side of Thompson's Island. See pages 7-9 of this report for documented photos of 266 CFS, 630 CFS, and 400 CFS.



MILLRACE BENCH MARK CLOSEUP

EXISTING SITE  
NO SCALE



MILLRACE ENTRANCE, VIEW LEFT BANK TO RIGHT BANK

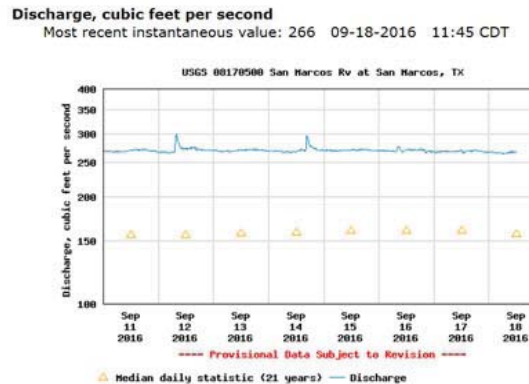
SAN MARCOS, TEXAS		EXISTING SITE PHOTOS		SUB-SHEET
CAPE DAM-BREACH & CHANNEL RESTORATION				3
DESIGNED W. STANCILL	DRAWN W. STANCILL	CHECKED W. RICE	DATE 4/2016	DRAWING NO. BR-TX-2016-002
				SHEET 3 OF 7

# Photos of Capes Dam on Sept 18, 2016

## USGS 08170500 San Marcos Rv at San Marcos, TX



All photos taken when USGS measured discharge was 266 cfs



Contrast these photos with known measured CFS to undated photos in USFWS April 2016 report on the removal of Capes Dam entitled "Capes Dam-Breach & Channel Restoration" The vastly *over-estimated flow-rates* on the undated photos of the **USFWS are incorrectly displayed on the order of 100-300 cfs.**

# Photos taken Monday, Sept 26, 2016 10:30am at 630 CFS



Monday Sept 26, 2016 10:30am at 630 CFS

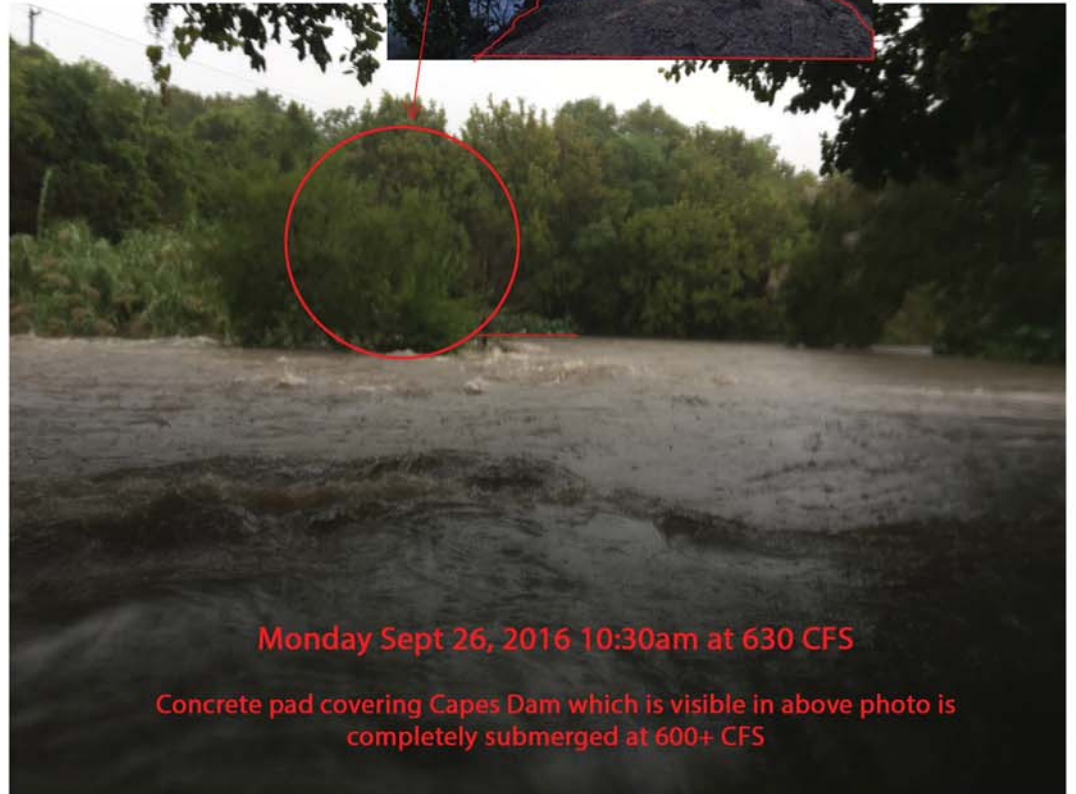


Photo taken 8/16/2016 at 280 CFS



Photo taken 9/18/2016 at 266 CFS

Concrete pad covering parts of Capes Dam is completely submerged at 630 CFS

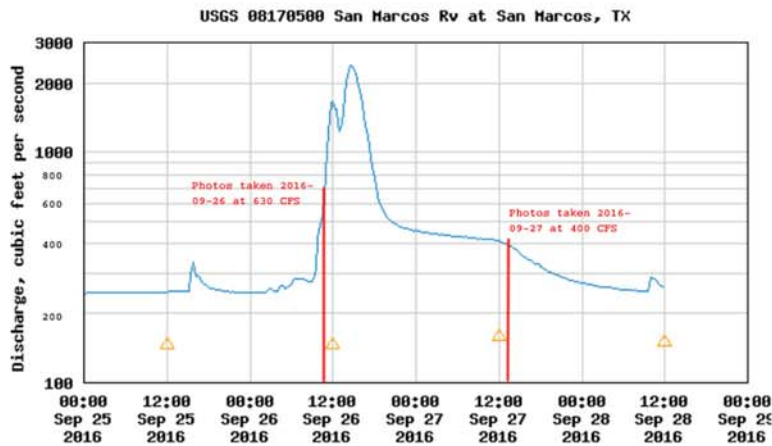


Monday Sept 26, 2016 10:30am at 630 CFS

Concrete pad covering Capes Dam which is visible in above photo is completely submerged at 600+ CFS

Discharge, cubic feet per second

Most recent instantaneous value: 260 09-28-2016 11:45 CDT



△ Median daily statistic (21 years) — Discharge

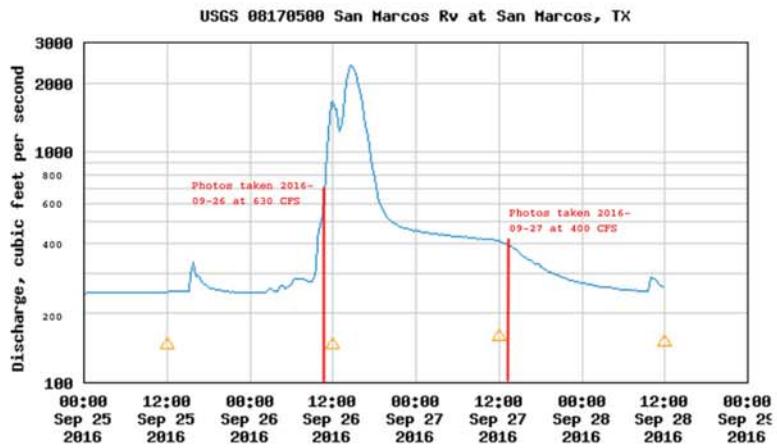


# Photos taken Tuesday, Sept 27, 2016 1:00pm at 400 CFS



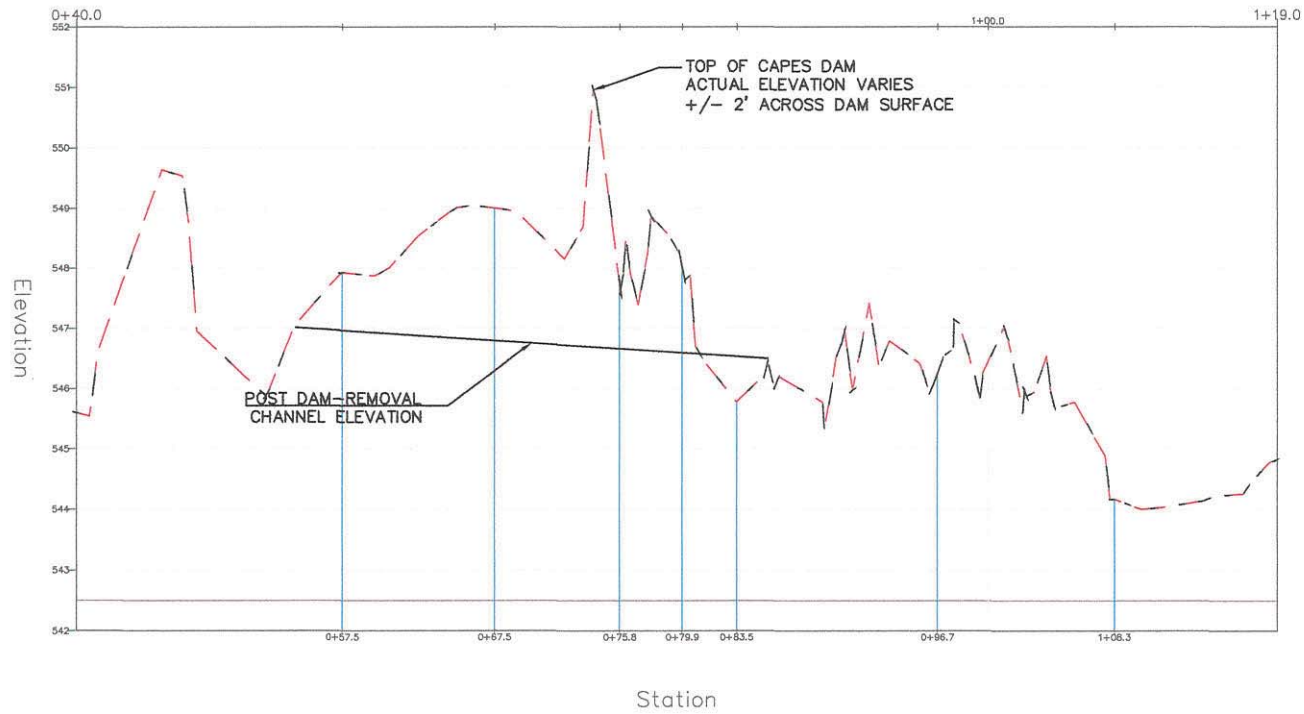
## Discharge, cubic feet per second

Most recent instantaneous value: 260 09-28-2016 11:45 CDT



△ Median daily statistic (21 years) — Discharge

### Existing & Proposed Alignment Profile Details as appearing in USFWS' April 2016 report

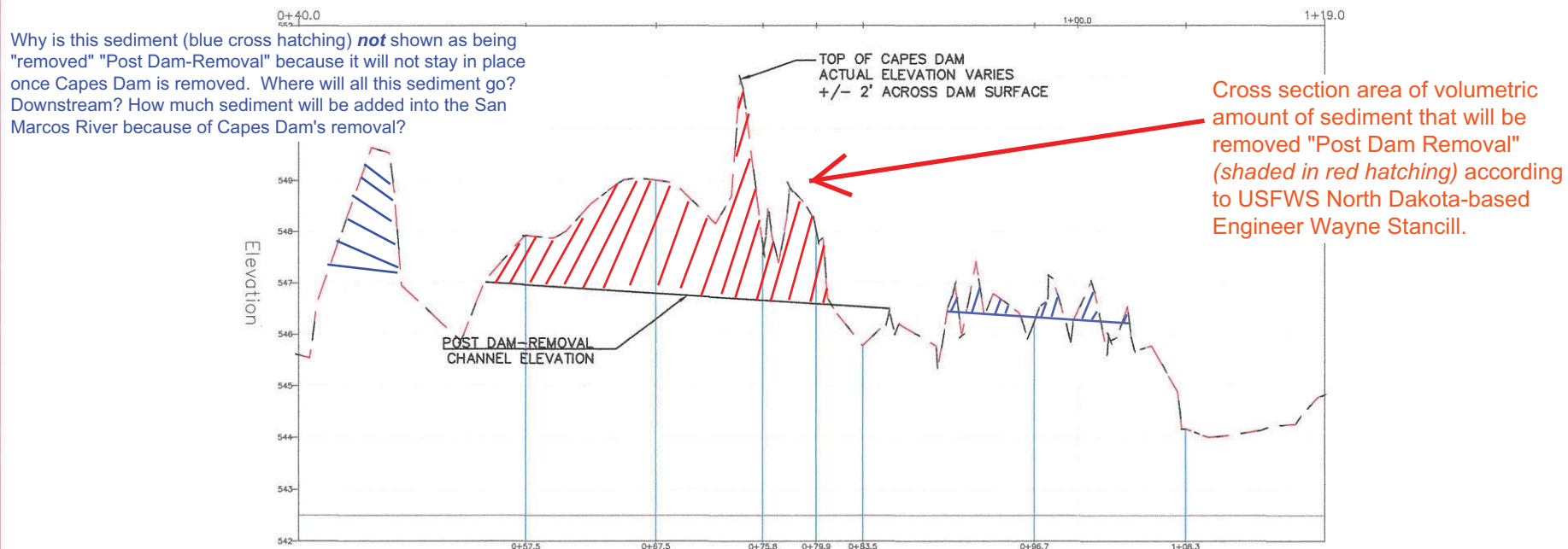


SAN MARCOS, TEXAS		EXISTING & PROPOSED			SUB-SHEET
CAPES DAM-BREACH & CHANNEL RESTORATION		ALIGNMENT PROFILE DETAILS			4
DESIGNED	DRAWN	CHECKED	DATE	DRAWING NO.	SHEET
W. STANCILL	W. STANCILL	W. RICE	4/2018	BR-TX-2018-002	4 OF 7

## Existing & Proposed Alignment Profile Details commentary

Because this Engineer's Drawing lacks a **Horizontal Scale**, no measurements can be made of the amount of sediment that will either 1) be removed and should be included in both TCEQ Info Sheet for Dam Removal and TPWD Sand and Gravel permits; **OR** 2) be removed by the river over time, and be sent downstream, greatly increasing sedimentation rates downstream from what once was Capes Dam.

**This 3D volume of sediment taken away "Post Dam-Removal" must be able to be measured, quantified, and correctly described before any action to remove Capes Dam can occur.**



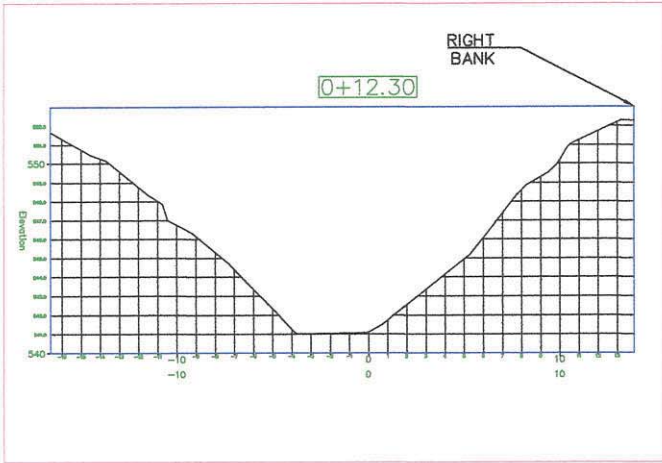
1) Will the "Post Dam-removal Channel Elevation" created by removal of the sediment that currently exists in the area shaded in red hatching **be accomplished by man-made removal?**

**OR**

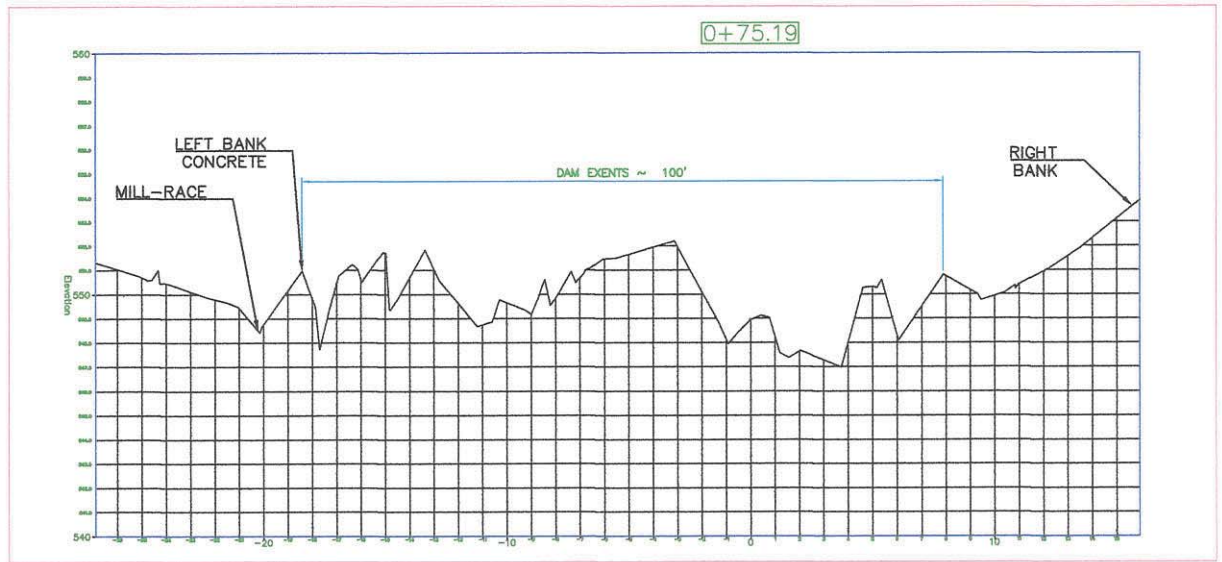
2) Will the "Post Dam-removal Channel Elevation" created by removal of the sediment that currently exists in the area shaded in red hatching **be accomplished by the river, over time?**

SAN MARCOS, TEXAS		<b>EXISTING &amp; PROPOSED</b>			SUB-SHEET
CAPES DAM-BREACH & CHANNEL RESTORATION		<b>ALIGNMENT PROFILE DETAILS</b>			4
DESIGNED	DRAWN	CHECKED	DATE	DRAWING NO.	SHEET
W. STANCILL	W. STANCILL	W. RICE	4/2018	BR-TX-2018-002	4 OF 7

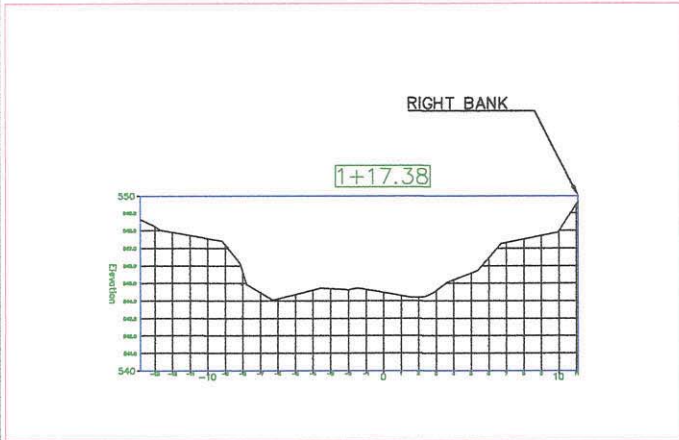
# Existing Site Section Line Details as appearing in USFWS' April 2016 report



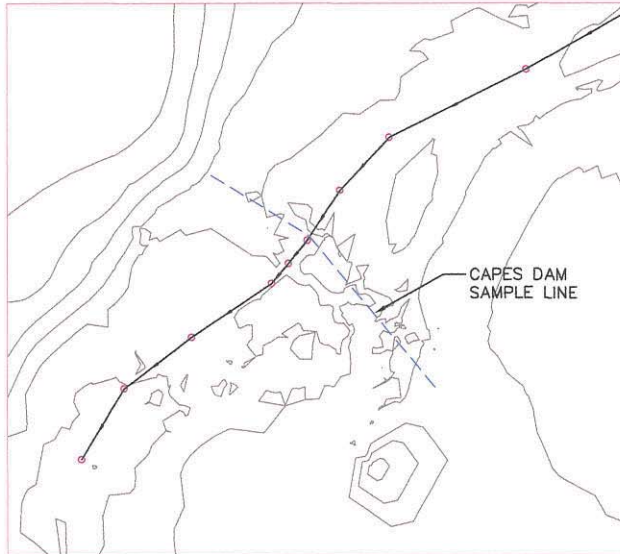
EXISTING CONDITION: SAMPLE LINE CROSS SECTION UPSTREAM OF CAPES DAM



EXISTING CONDITION: SAMPLE LINE CROSS SECTION PARALLEL WITH CENTERLINE OF DAM'S LONG AXIS



EXISTING CONDITION: SAMPLE LINE CROSS SECTION DOWNSTREAM OF CAPES DAM



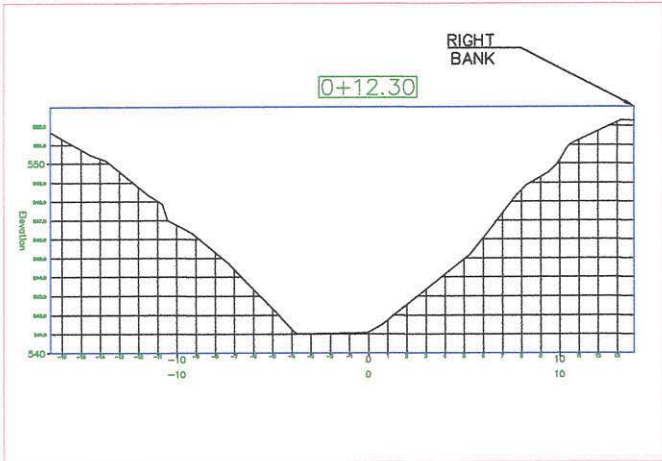
LOCATION OF SAMPLE LINE USED TO DEVELOP EXISTING CONDITIONS AT CAPES DAM

**NOTES:**

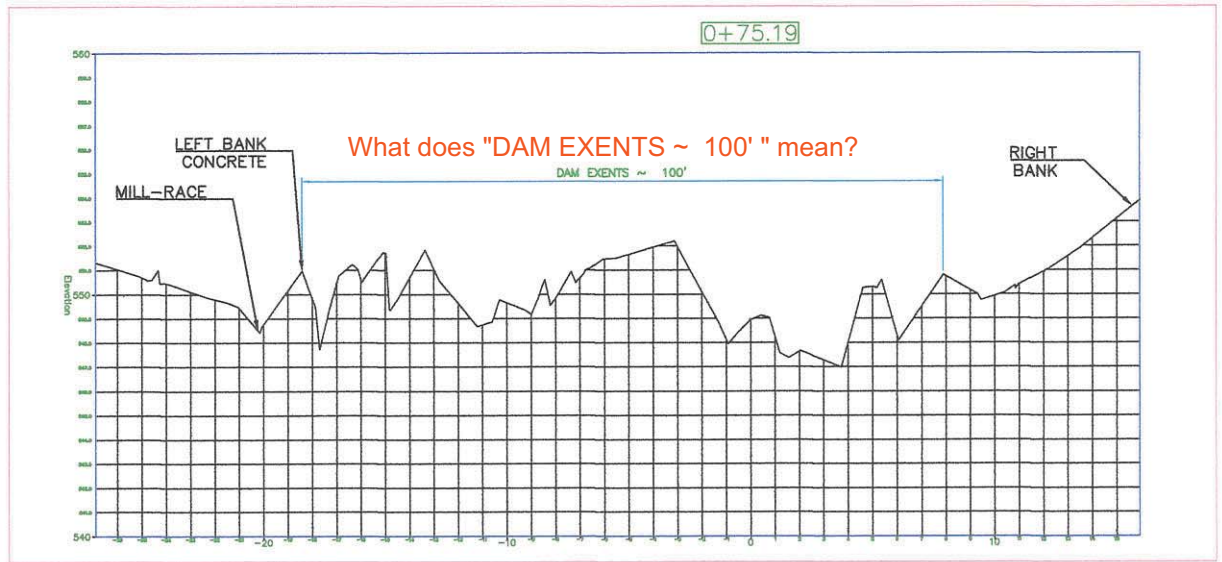
1. RIGHT-BANK AND LEFT-BANK REFERENCE THE BANK AS VIEWED LOOKING DOWNSTREAM.

SAN MARCOS, TEXAS		<b>EXISTING SITE SECTION LINE DETAILS</b>			SUB-SHEET <b>5</b>
CAPES DAM-BREACH & CHANNEL RESTORATION					
DESIGNED W. STANCILL	DRAWN W. STANCILL	CHECKED W. RICE	DATE 4/2016	DRAWING NO. BR-TX-2016-002	SHEET 5 OF 7

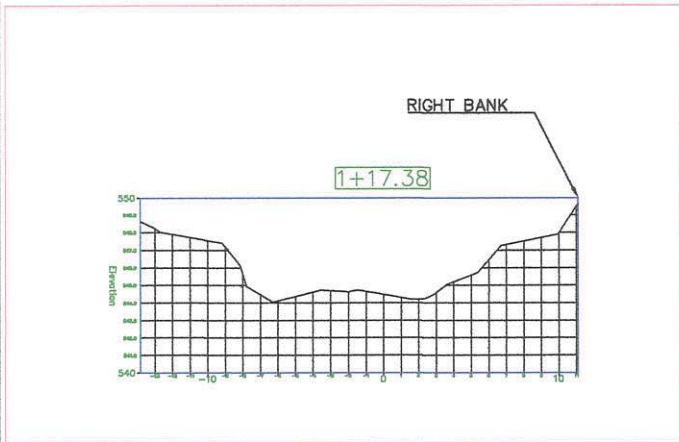
# Existing Site Section Line Details commentary



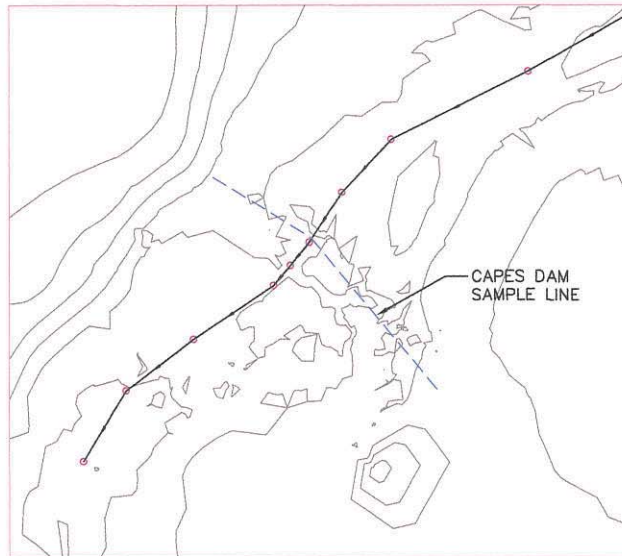
EXISTING CONDITION: SAMPLE LINE CROSS SECTION UPSTREAM OF CAPES DAM



EXISTING CONDITION: SAMPLE LINE CROSS SECTION PARALLEL WITH CENTERLINE OF DAM'S LONG AXIS



EXISTING CONDITION: SAMPLE LINE CROSS SECTION DOWNSTREAM OF CAPES DAM



LOCATION OF SAMPLE LINE USED TO DEVELOP EXISTING CONDITIONS AT CAPES DAM

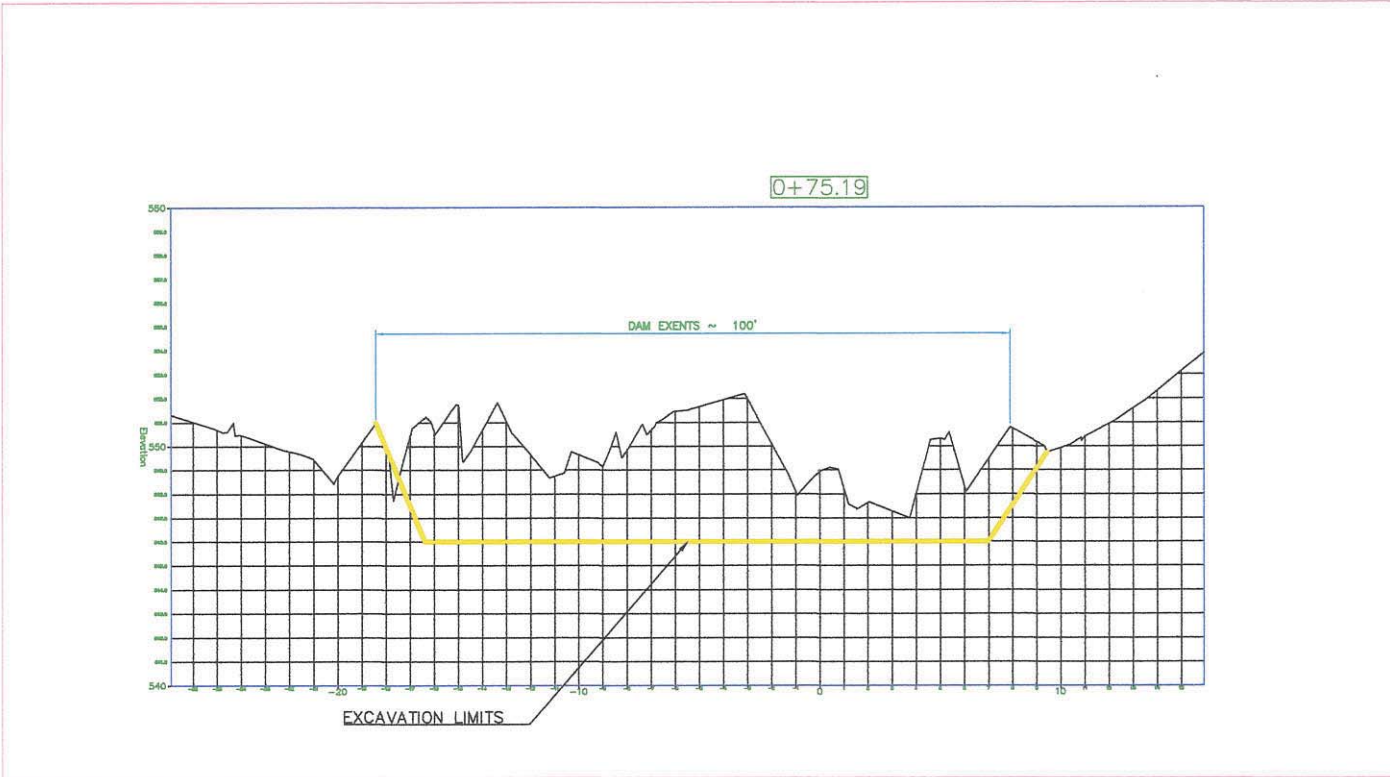
**NOTES:**

1. RIGHT-BANK AND LEFT-BANK REFERENCE THE BANK AS VIEWED LOOKING DOWNSTREAM.

SAN MARCOS, TEXAS		EXISTING SITE SECTION LINE DETAILS			SUB-SHEET
CAPES DAM-BREACH & CHANNEL RESTORATION					5
DESIGNED W. STANCILL	DRAWN W. STANCILL	CHECKED W. RICE	DATE 4/2016	DRAWING NO. BR-TX-2016-002	SHEET 5 OF 7

None of these drawings have a horizontal scale so measurements of the areas (2D) and volumes (3D) are not possible. Is this typical of the quality of work done by engineers employed or contracted to USFWS? The entire point of engineers' drawings are to have a certified measurements of physical structures. But when an organization assigns work to an engineer located over 1,000 miles away from the subject of his drawings, accuracy and useful data can be lacking.

# Proposed Site, Section Line Details at Dam as appearing in USFWS' April 2016 report



EXISTING AND PROPOSED CROSS SECTION PROFILE PARALLEL WITHLONG AXIS OF DAM CENTERLINE

**NOTES:**

ELEVATIONS ARE REPORTED AS NGVD-88 AND TIED TO THE BENCHMARK LOCATED ON THE RIGHT BANK OF THE MILL RACE RIGHT BANK CONCRETE WALL. SEE SHEET 3 (EXISTING SITE PHOTOS).

DAM REMOVAL & CHANNEL EXCAVATION

1. DAM WILL BE EXCAVATED FROM BANKLINE TO BANKLINE TO AN ELEVATION OF 546.0' OR REFUSAL.
2. EXCAVATED BANKLINES WILL BE SLOPED TO ~2:1 BUT FOLLOW THE EXISTING BANKLINE CONDITIONS WHERE POSSIBLE.
3. ALL EXCAVATED MATERIAL WILL BE REMOVED FROM THE CHANNEL AND DEPOSITED IN THE MILLRACE DOWNSTREAM OF THE CONSTRUCTED RIP RAP GRADE CONTROL STRUCTURE.
4. EXCAVATED MATERIAL DEPOSITED INTO THE MILLRACE WILL BE NO LARGER THAN 8 CUBIC FT.
5. REBAR WILL NOT BE REMOVED FROM EXCAVATED MATERIAL DEPOSITED IN THE MILLRACE.
6. SILT AND OTHER DEPOSITIONAL MATERIAL STORED IN THE RESERVOIR AREA (UPSTREAM OF DAM) WILL NOT BE EXCAVATED.
7. THE LEFT BANK CHANNEL REQUIRES RESTORATION. THIS WORK WILL NOT COMMENCE UNTIL THE EXCAVATED CHANNEL HAS REACHED ITS NEW EQUILIBRIUM (NATURAL GRADE AND PLAN-FORM) AS DETERMINED BY THE US FISH & WILDLIFE SERVICE'S FIELD STAFF.
8. INSTALL ROCK GRADE CONTROL STRUCTURE AT MILLRACE INLET TO CONTROL HEAD CUTTING AS DEPICTED ON SHEET 7 (BANK STAB & EROSION CONT).

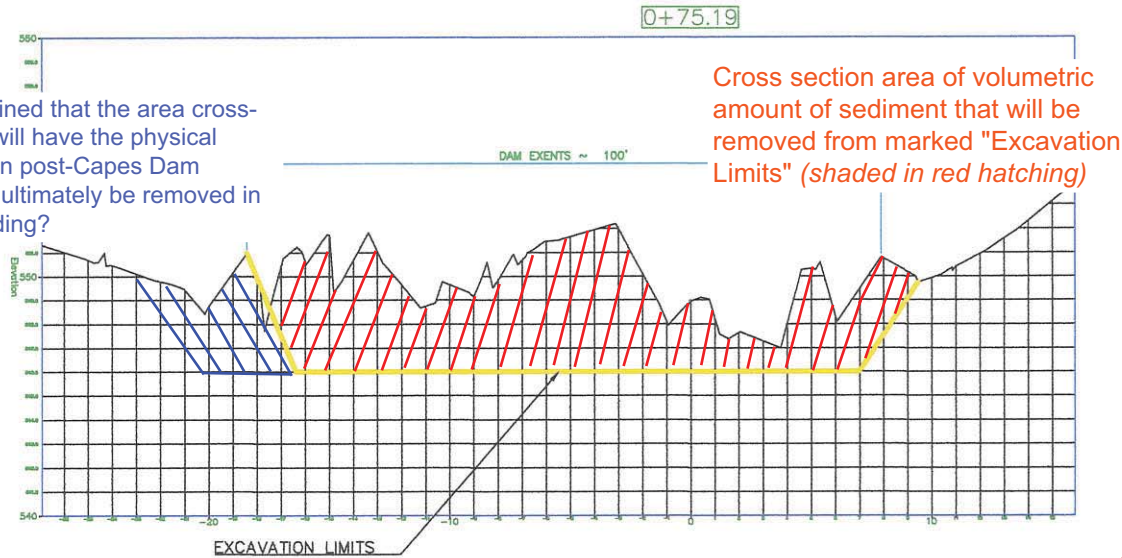
PROPOSED SITE  
NO SCALE

SAN MARCOS, TEXAS		PROPOSED SITE			SUB-SHEET
CAPES DAM--BREACH & CHANNEL RESTORATION		SECTION LINE DETAILS AT DAM			6
DESIGNED W. STANGILL	DRAWN W. STANGILL	CHECKED W. RICE	DATE 4/2016	DRAWING NO. BR-TX-2016-002	SHEET 6 OF 7

# Proposed Site, Section Line Details at Dam commentary

Has any geological work been done to investigate what rock Capes Dam is built upon? It appears that Capes Dam utilizes the upthrown side of a horst fault-block, part of the much larger Balcones Fault Zone. What will happen if this proposed Excavation of Capes Dam encounters an upthrown fault block that Capes Dam has merely utilized and enhanced?

Who has determined that the area cross-hatched in blue will have the physical integrity to remain post-Capes Dam removal and not ultimately be removed in subsequent flooding?



Cross section area of volumetric amount of sediment that will be removed from marked "Excavation Limits" (shaded in red hatching)

**NOTES:**

ELEVATIONS ARE REPORTED AS NGVD-88 AND TIED TO THE BENCHMARK LOCATED ON THE RIGHT BANK OF THE MILL RACE RIGHT BANK CONCRETE WALL. SEE SHEET 3 (EXISTING SITE PHOTOS).

**DAM REMOVAL & CHANNEL EXCAVATION**

1. DAM WILL BE EXCAVATED FROM BANKLINE TO BANKLINE TO AN ELEVATION OF 546.0' OR REFUSAL.
2. EXCAVATED BANKLINES WILL BE SLOPED TO ~2:1 BUT FOLLOW THE EXISTING BANKLINE CONDITIONS WHERE POSSIBLE.
3. ALL EXCAVATED MATERIAL WILL BE REMOVED FROM THE CHANNEL AND DEPOSITED IN THE MILLRACE DOWNSTREAM OF THE CONSTRUCTED RIP RAP GRADE CONTROL STRUCTURE.
4. EXCAVATED MATERIAL DEPOSITED INTO THE MILLRACE WILL BE NO LARGER THAN 8 CUBIC FT.
5. REBAR WILL NOT BE REMOVED FROM EXCAVATED MATERIAL DEPOSITED IN THE MILLRACE.
6. SILT AND OTHER DEPOSITIONAL MATERIAL STORED IN THE RESERVOIR AREA (UPSTREAM OF DAM) WILL NOT BE EXCAVATED.
7. THE LEFT BANK CHANNEL REQUIRES RESTORATION. THIS WORK WILL NOT COMMENCE UNTIL THE EXCAVATED CHANNEL HAS REACHED ITS NEW EQUILIBRIUM (NATURAL GRADE AND PLAN-FORM) AS DETERMINED BY THE US FISH & WILDLIFE SERVICE'S FIELD STAFF.
8. INSTALL ROCK GRADE CONTROL STRUCTURE AT MILLRACE INLET TO CONTROL HEAD CUTTING AS DEPICTED ON SHEET 7 (BANK STAB & EROSION CONT).

EXISTING AND PROPOSED CROSS SECTION PROFILE PARALLEL WITH LONG AXIS OF DAM CENTERLINE

"3. All excavated material will be removed from the Channel and deposited in the Millrace downstream of the **constructed Rip rap grade control structure.**"

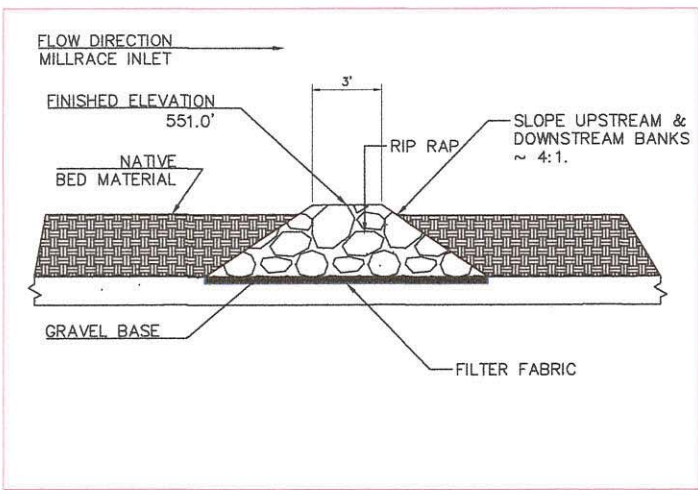
**Question:** What is being planned for the rainwater run-off drainage sewer pipes that drain the adjacent 24-acre apartment complex (which was omitted from these plans) of all rain-water? Three of these 5 drains empty into the Millrace. What will happen after the Millrace no longer receives fresh flows of water, and instead becomes a stagnant, Zika-mosquito-filled swamp? When it rains, and the 3 rainwater runoff sewage pipes dump their polluted water directly into the area formerly occupied by the Millrace, have any flood-studies been completed to show the effect on the now-dammed Millrace?

"4. **Excavated material deposited into the Millrace will be no larger than 8 cubic ft**" **Question:** Will individual boulders be no larger than 8 cubic ft (which can be approximated by a 2 foot-square cube)? What if individual boulders are larger than 8 cubic feet? Where will these larger boulders be deposited?

"5. **Rebar will not be removed from excavated material deposited in the Mill race.**" **Question:** Will concrete be removed from excavated material? Or will all materials, whether natural or man-made iron & concrete, be desposited into the natural-bank Millrace?

PROPOSED SITE  
NO SCALE

CAPES DAM--BREACH & SECTION LINE DETAILS AT DAM CHANNEL RESTORATION						SHEET 6 OF 7
DESIGNED W. STANGILL	DRAWN W. STANGILL	CHECKED W. RICE	DATE 4/2016	DRAWING NO. BR-TX-2016-002		



CENTERLINE PROFILE VIEW: RIP RAP GRADE CONTROL STRUCTURE



CAPES DAM AREA: EROSION CONTROL INSTALLATION LOCATIONS

**NOTES:**

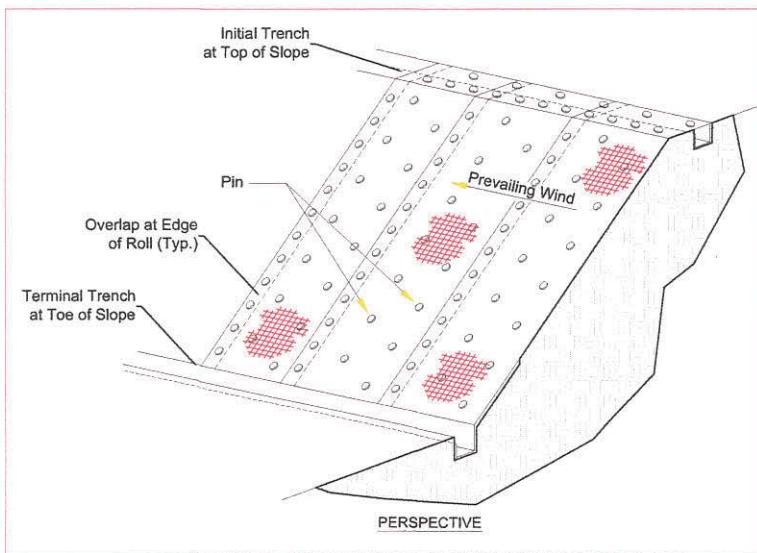
RIGHT BANK REFERS TO RIGHT SIDE OF RIVER LOOKING IN THE DOWNSTREAM DIRECTION.

**RIGHT BANK EROSION CONTROL.**

1. COVER SECTION OF RIGHT BANK EXPOSED DURING DAM REMOVAL WITH JUTE FIBER ROLL.
2. JUTE FIBER ROLL MATERIAL EXTENDS Laterally ALONG THE BANK FOR ~ 60' AS DEPICTED IN THE ATTACHED PHOTO.

**MILL RACE ENTRANCE**

1. EXCAVATE MILL RACE ENTRANCE TO ELEVATION 545.0' AND BACKFILL WITH RIP RAP TO ELEVATION 551.0.
2. INSTALL 6" OF GRAVEL OVER GEOTEXTILE FILTER FABRIC BEFORE BACKFILLING EXCAVATED AREA WITH RIP RAP.
3. RIP RAP EXTENDS HORIZONTALLY ~ 40' FROM BANKLINE TO BANKLINE AS DEPICTED IN THE ATTACHED PHOTO.
4. KEY RIP RAP INTO LEFT BANK 5'.
5. RIP RAP SHALL BE TIED INTO THE RIGHT BANK (CONCRETE LINED SIDE) TO MAXIMUM POSSIBLE EXTENT WITHOUT EXCAVATING THE CONCRETE.
6. ENGINEER WILL STAKE GRADE CONTROL STRUCTURE EXTENTS PRIOR TO CONSTRUCTION.



PLAN VIEW: INSTALLATION OF JUTE BANK STABILIZATION MATERIAL

**PROPOSED SITE**  
NO SCALE

**WHY** does the Millrace HAVE to be damned-up and filled in?

**WHY** can't the San Marcos River and Millrace employ the **SAME Split-Flow regime** that Dr Thom Hardy (upon whose research Mike Montagne of USFWS has based his recommendations upon) is implementing in the hydrologic equivalent Comal River? (See [http://eahcp.org/index.php/habitat\\_protection/comal\\_springs/flow\\_split\\_management](http://eahcp.org/index.php/habitat_protection/comal_springs/flow_split_management) for discussion of Hardy-recommended Split-Flow of Comal River to create slow-moving Fountain Darter habitat.)

In the Comal River, Dr Hardy is recommending **the exact opposite of what is proposed for the San Marcos River**. In the Comal River a **Split-Flow regime is being created** between the Comal and the Old Channel **to provide better habitat in a larger area for the endangered Fountain Darter which prefer the slower-moving waters of the Old Channel**.

**WHY** can't our existing **Split-Flow regime** between the San Marcos River and the Millrace be maintained?

MILL RACE GRADE CONTROL				
CAPES DAM-BREACH CHANNEL RESTORATION & EROSION CONTROL DETAILS				
DESIGNED W. STANCLIFF	DRAWN W. STANCLIFF	CHECKED W. RICE	DATE 4/2016	DRAWING NO. GR-TX-2016-002
				SHEET 7 OF 7