

**VOLUME II**  
**EXHIBITS**

# Reata Wash Flood Control Improvement Study

Contract No. 2014-168-COS

## Design Concept Report Volume II - Exhibits November 2, 2016

Prepared for:



Capital Project Management  
7447 East Indian School Road, Suite 205  
Scottsdale, AZ. 85251

Prepared By:

**WOOD/PATEL**  
MISSION: CLIENT SERVICE™

Wood, Patel & Associates, Inc.  
2051 West Northern Avenue, Suite 100  
Phoenix, Arizona 85021



In Association with:

EXPIRES 12-31-16



**THE DESIGN CONCEPT REPORT FOR THE REATA WASH FLOOD CONTROL IMPROVEMENT  
STUDY IS COMPOSED OF THREE SEPARATE VOLUMES:**

**VOLUME I – REPORT**

**VOLUME II – EXHIBITS**

**VOLUME III – APPENDICES**



EXPIRES 12-31-16

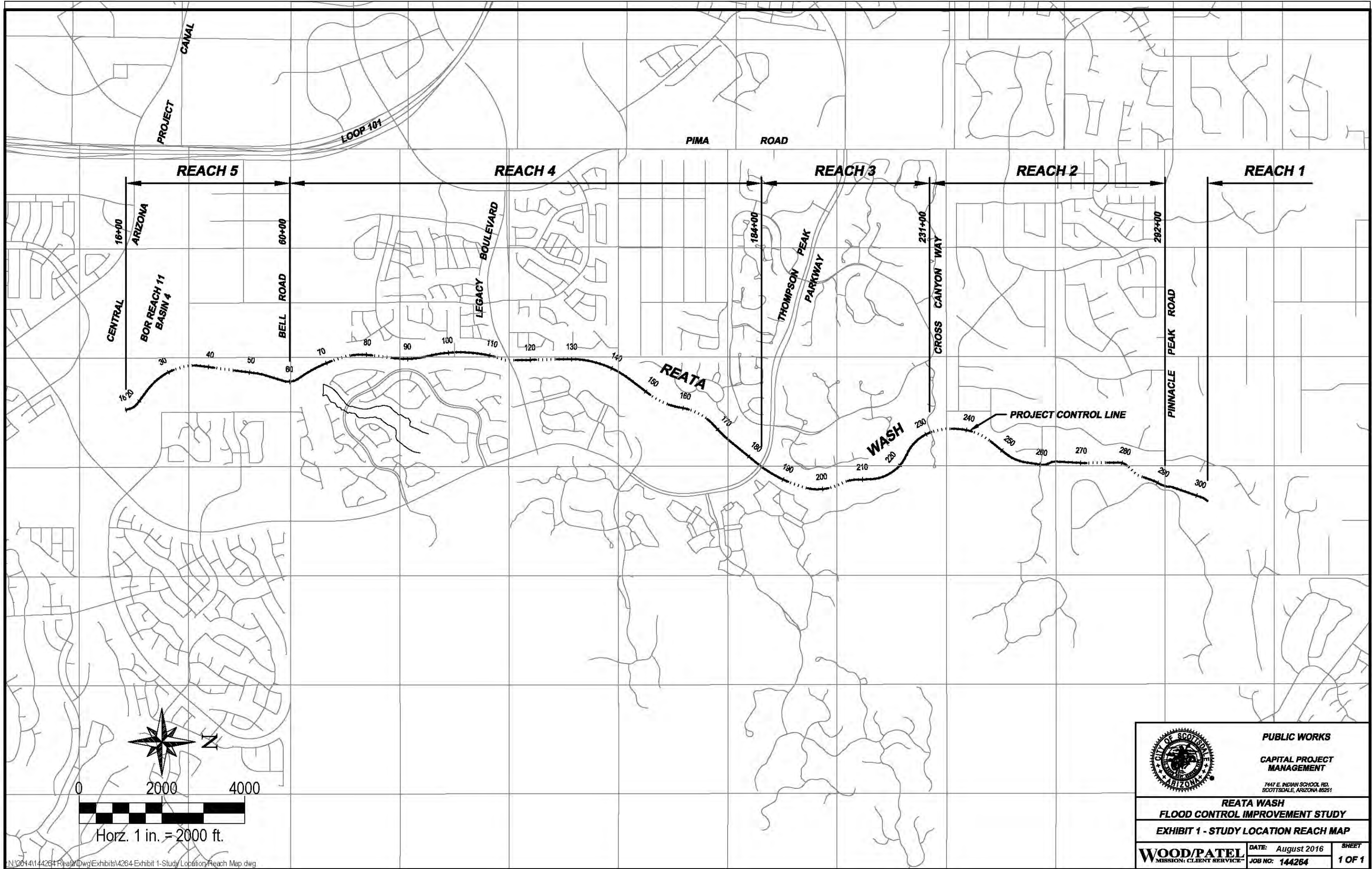
**VOLUME II**  
**EXHIBITS**

- Exhibit 1 Study Location Reach Map
- Exhibit 2 Study Location Reach Map and Existing Condition Floodplain
- Exhibit 3 Study Location Reach Map and Proposed Condition Floodplain
- Exhibit 4 Land Rights
- Exhibit 5 Concept Design Plan (15%)
- Exhibit 6 Existing Condition Peak Discharges
- Exhibit 7 Proposed Condition Peak Discharges



EXPIRES 12-31-16

**EXHIBIT 1**  
**STUDY LOCATION REACH MAP**



0 2000 4000

Horz. 1 in. = 2000 ft.



**PUBLIC WORKS**

**CAPITAL PROJECT  
MANAGEMENT**

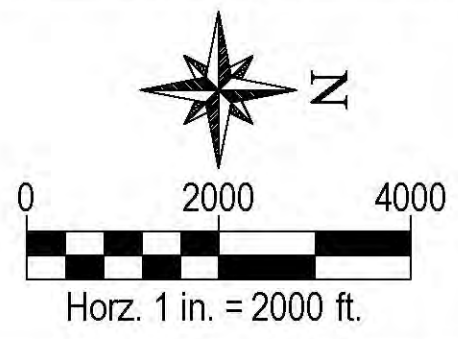
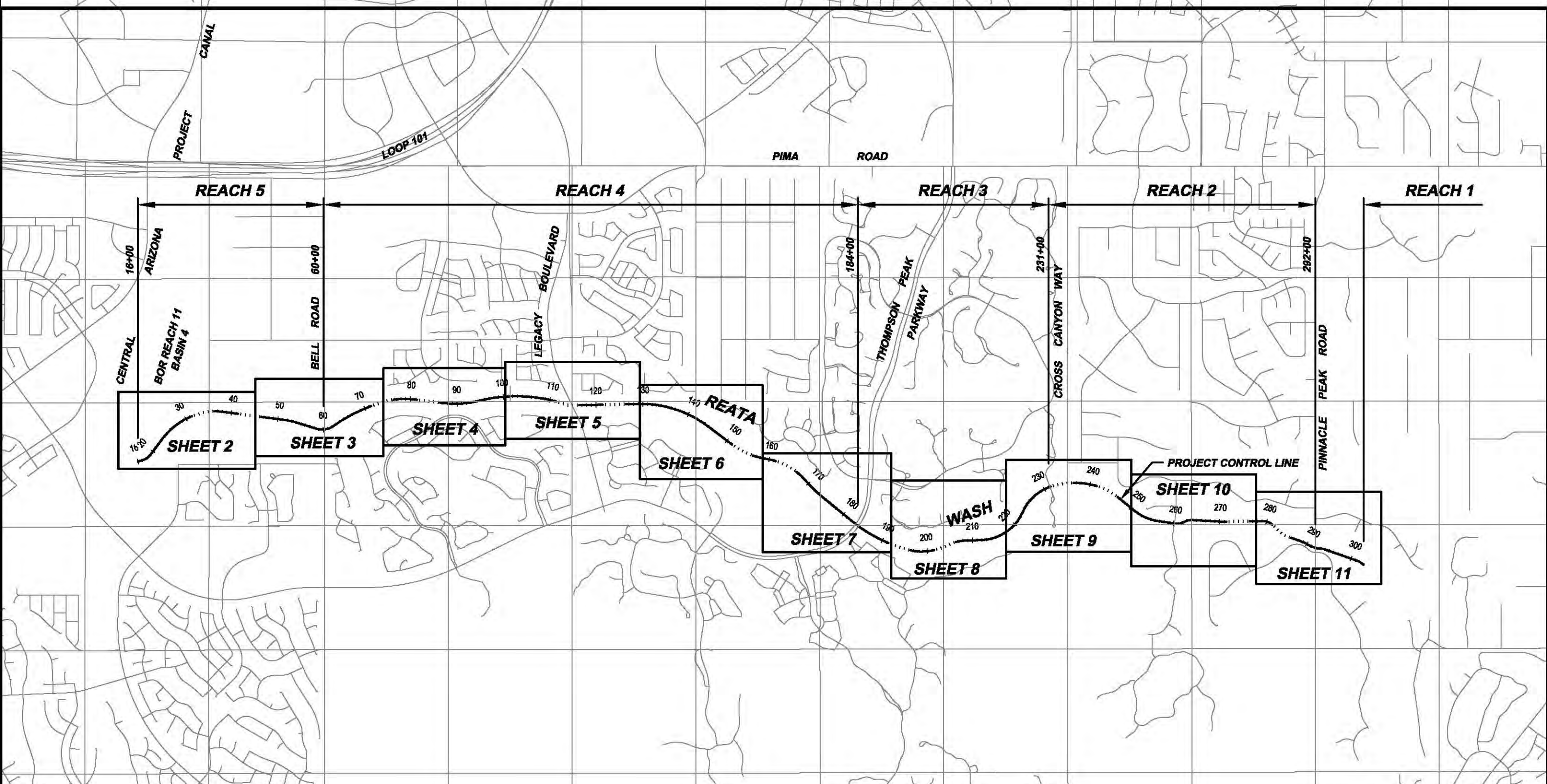
7417 E. INDIAN SCHOOL RD.  
SCOTTSDALE, ARIZONA 85251


**REATA WASH  
FLOOD CONTROL IMPROVEMENT STUDY**

**EXHIBIT 1 - STUDY LOCATION REACH MAP**

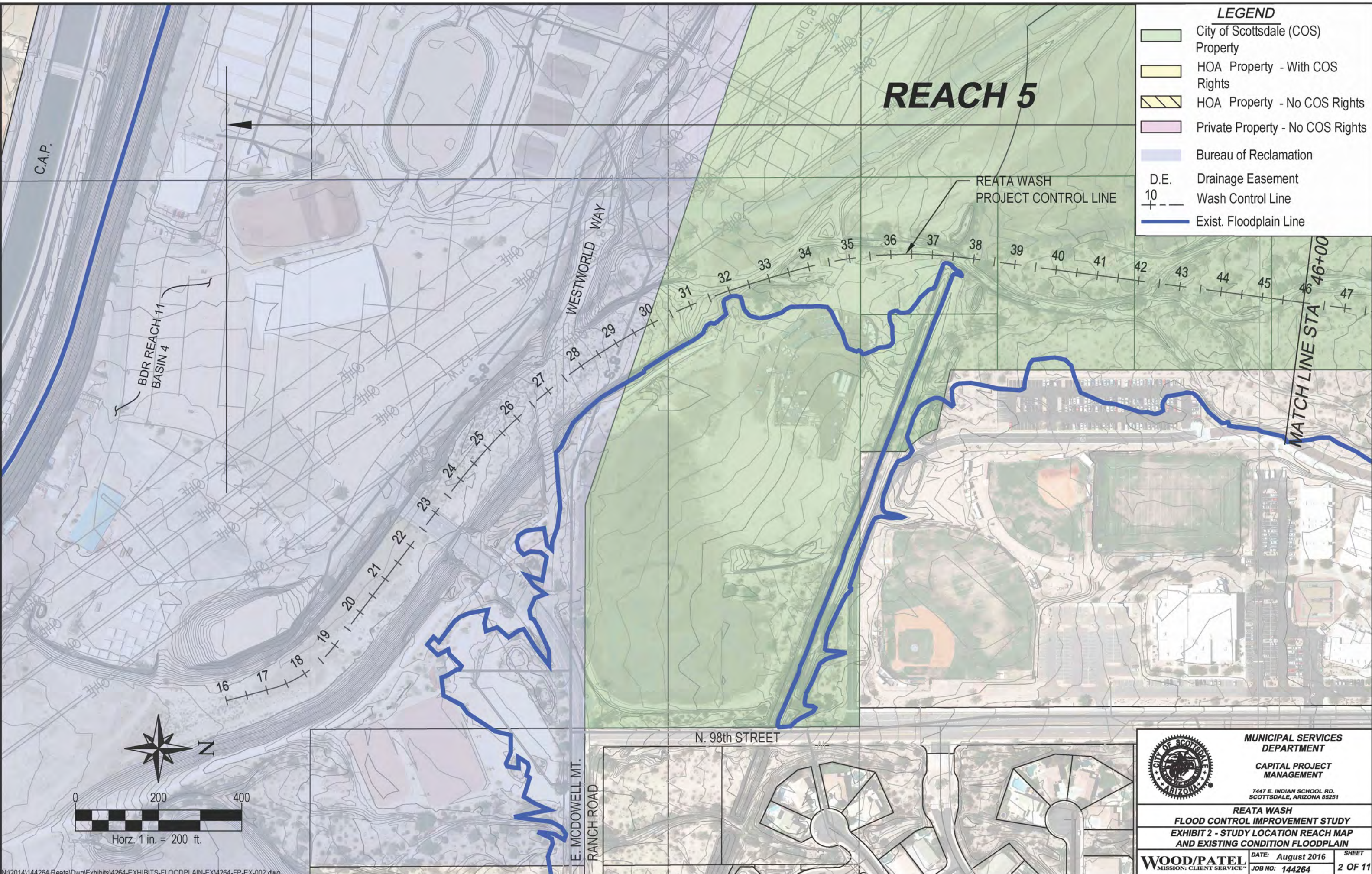
<b>WOOD/PATEL</b> MISSION: CLIENT SERVICE™	DATE: August 2016	SHEET
	JOB NO: 144264	1 OF 1

**EXHIBIT 2**  
**STUDY LOCATION REACH MAP**  
**AND EXISTING CONDITION FLOODPLAIN**



	<b>PUBLIC WORKS</b>	
	<b>CAPITAL PROJECT MANAGEMENT</b>	
	<small>7417 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251</small>	
<b>REATA WASH</b>		
<b>FLOOD CONTROL IMPROVEMENT STUDY</b>		
<b>EXHIBIT 2 - STUDY LOCATION REACH MAP</b>		
<b>AND EXISTING CONDITION FLOODPLAIN</b>		
<b>WOOD/PATEL</b> <small>MISSION: CLIENT SERVICE™</small>	DATE: August 2016 JOB NO: 144264	SHEET <b>1 OF 11</b>





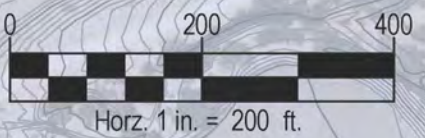
**LEGEND**

	City of Scottsdale (COS) Property
	HOA Property - With COS Rights
	HOA Property - No COS Rights
	Private Property - No COS Rights
	Bureau of Reclamation
	D.E. Drainage Easement
	10' Wash Control Line
	Exist. Floodplain Line

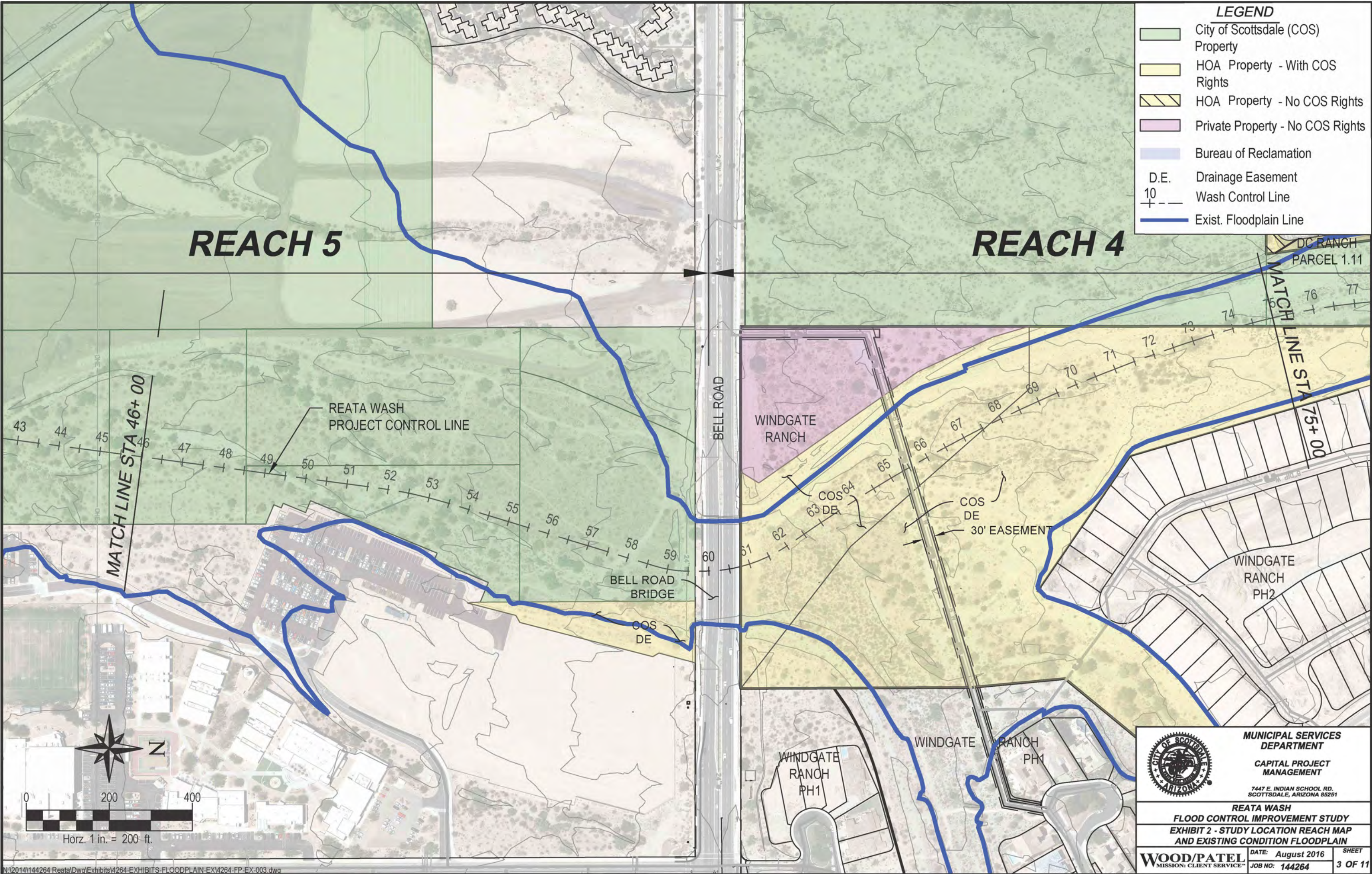
# REACH 5

REATA WASH PROJECT CONTROL LINE

MATCH LINE STA 46+00



	<b>MUNICIPAL SERVICES DEPARTMENT</b> <b>CAPITAL PROJECT MANAGEMENT</b> <small>7447 E. INDIAN SCHOOL RD.          SCOTTSDALE, ARIZONA 85251</small>	
	<b>REATA WASH FLOOD CONTROL IMPROVEMENT STUDY</b> <b>EXHIBIT 2 - STUDY LOCATION REACH MAP AND EXISTING CONDITION FLOODPLAIN</b>	
<b>WOOD/PATEL</b> <small>MISSION: CLIENT SERVICE™</small>	DATE: August 2016 JOB NO: 144264	SHEET <b>2 OF 11</b>



**LEGEND**

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	Bureau of Reclamation
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**REACH 5**

**REACH 4**

MATCH LINE STA 46+00

MATCH LINE STA 75+00

REATA WASH PROJECT CONTROL LINE

BELL ROAD

WINDGATE RANCH

WINDGATE RANCH PH2

WINDGATE RANCH PH1

WINDGATE RANCH PH1

BELL ROAD BRIDGE

COS DE

COS DE

COS DE








30' EASEMENT

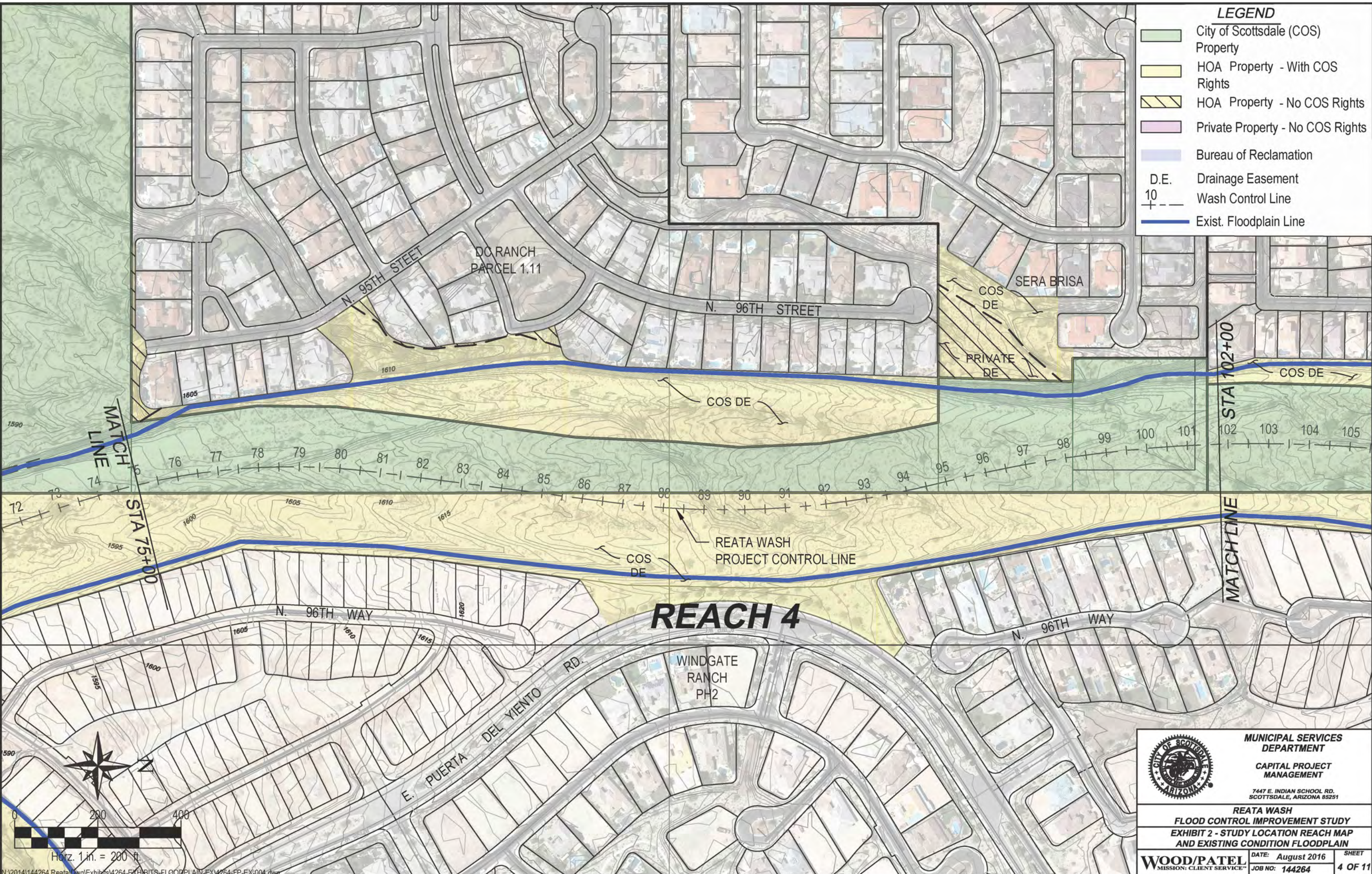


Horz. 1 in. = 200 ft.

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**MUNICIPAL SERVICES DEPARTMENT**

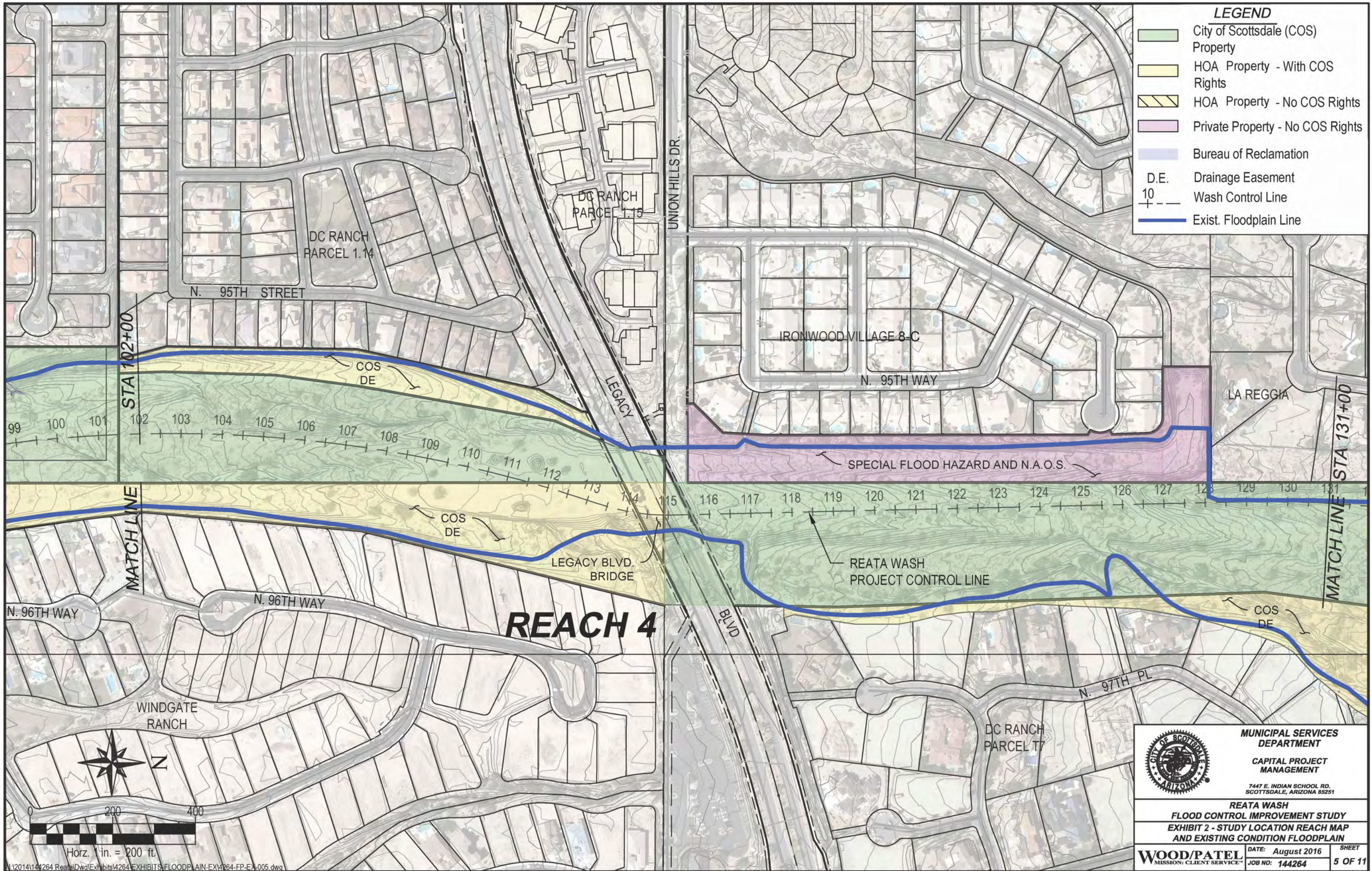
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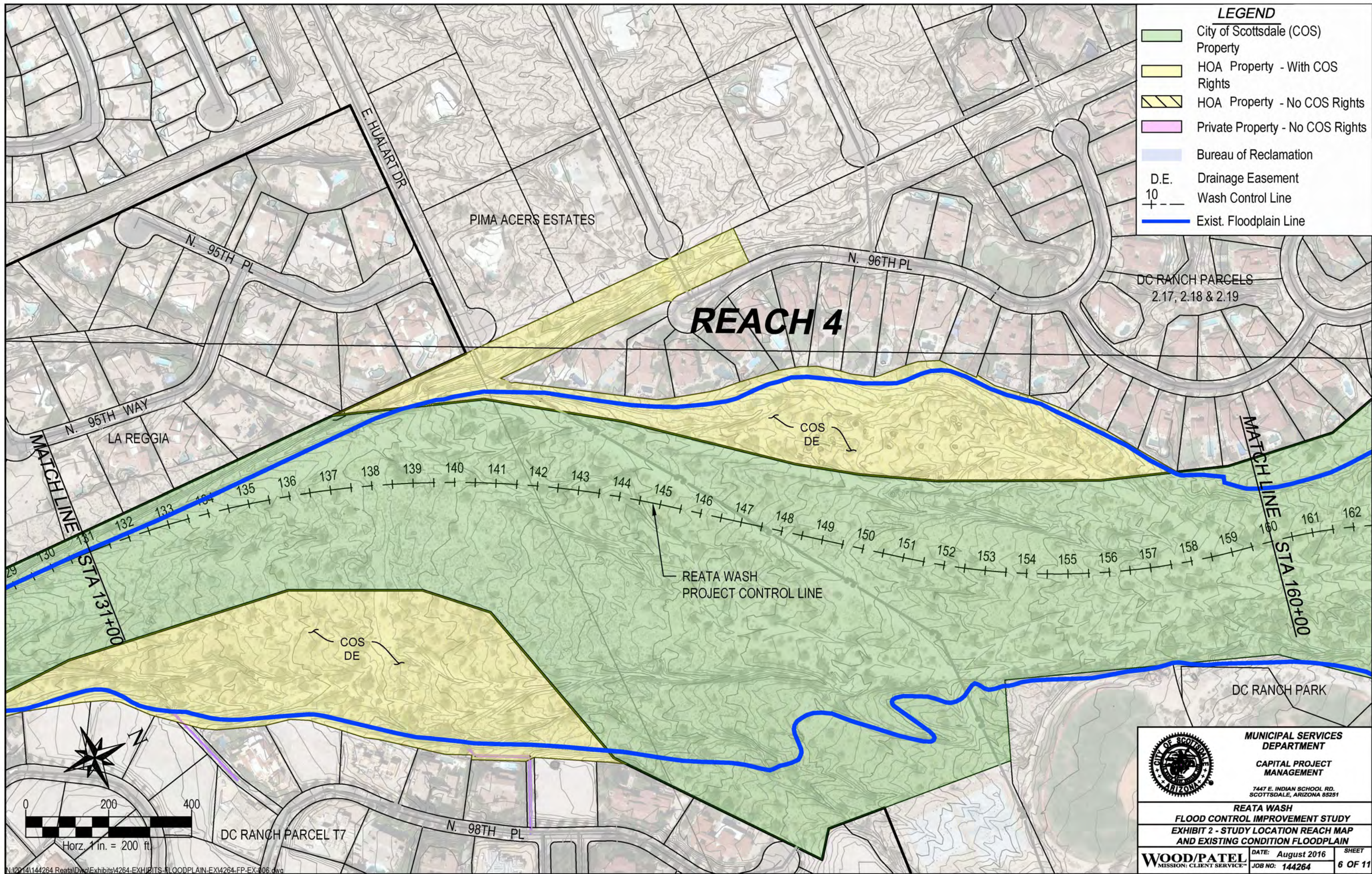
SHEET  
**4 OF 11**



**LEGEND**









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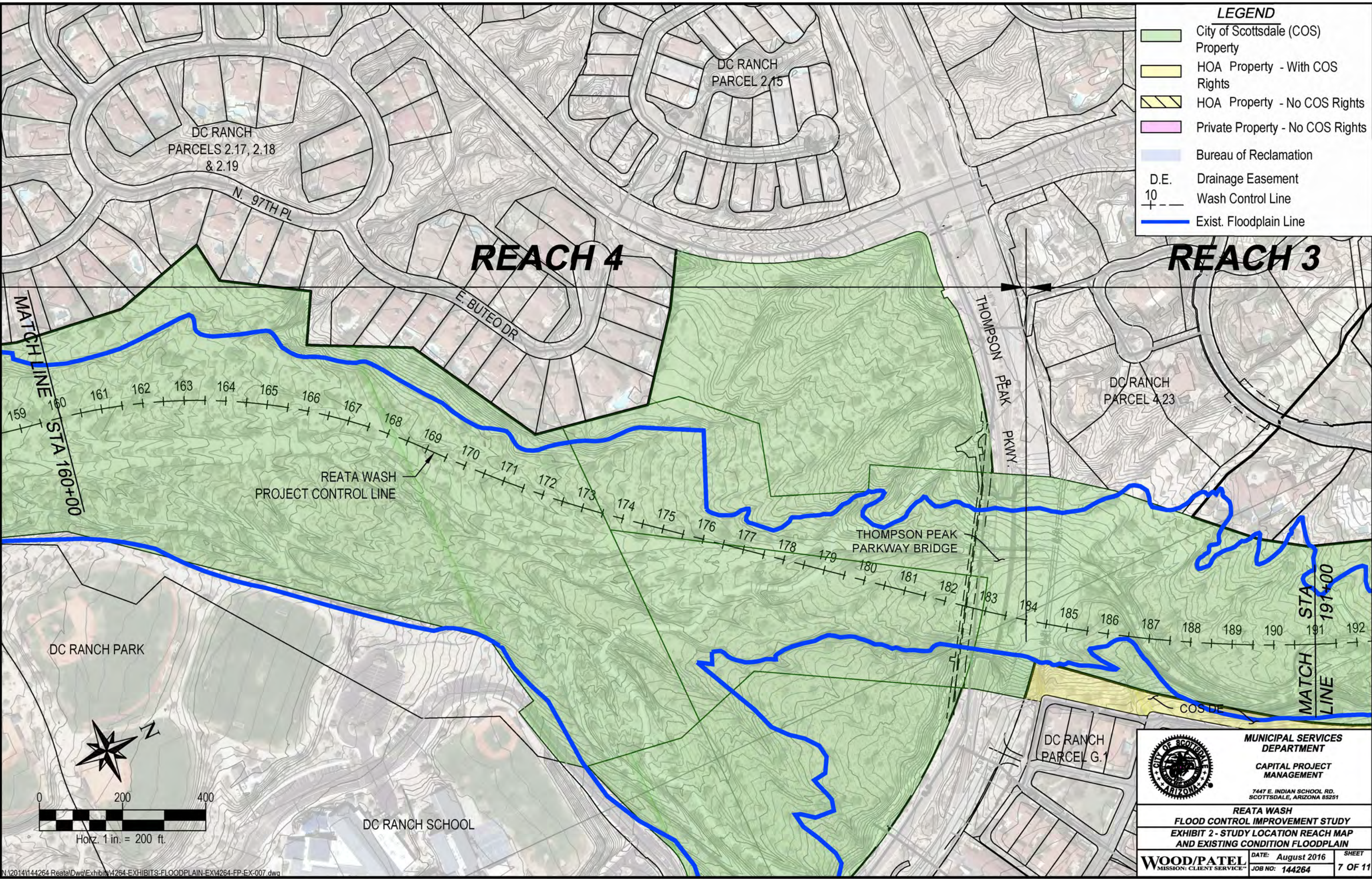
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<b>WOOD/PATEL</b> MISSION: CLIENT SERVICE™	DATE: August 2016 JOB NO: 144264
SHEET <b>5 OF 11</b>	



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<b>WOOD/PATEL</b> <small>MISSION: CLIENT SERVICE™</small>	DATE: August 2016 JOB NO: 144264	SHEET <b>6 OF 11</b>

**LEGEND**

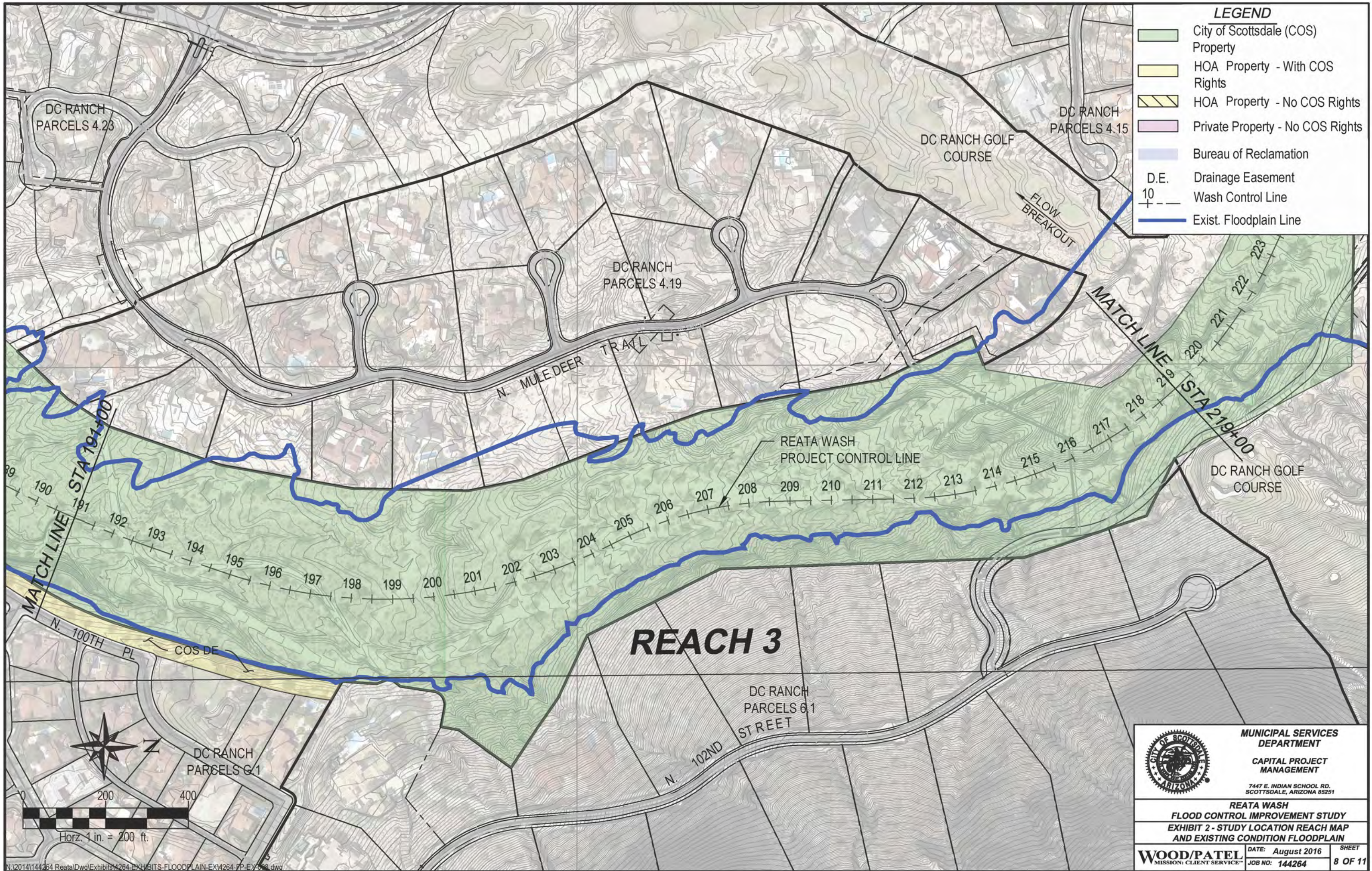
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**REATA WASH FLOOD CONTROL IMPROVEMENT STUDY**  
**EXHIBIT 2 - STUDY LOCATION REACH MAP AND EXISTING CONDITION FLOODPLAIN**

**WOOD/PATEL** DATE: August 2016 SHEET  
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**LEGEND**

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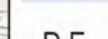
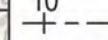


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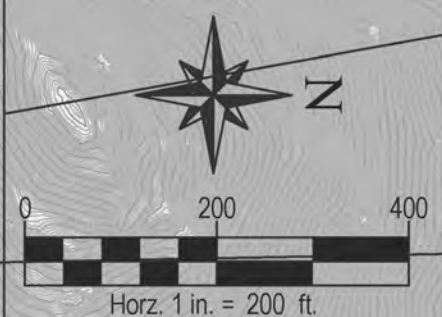
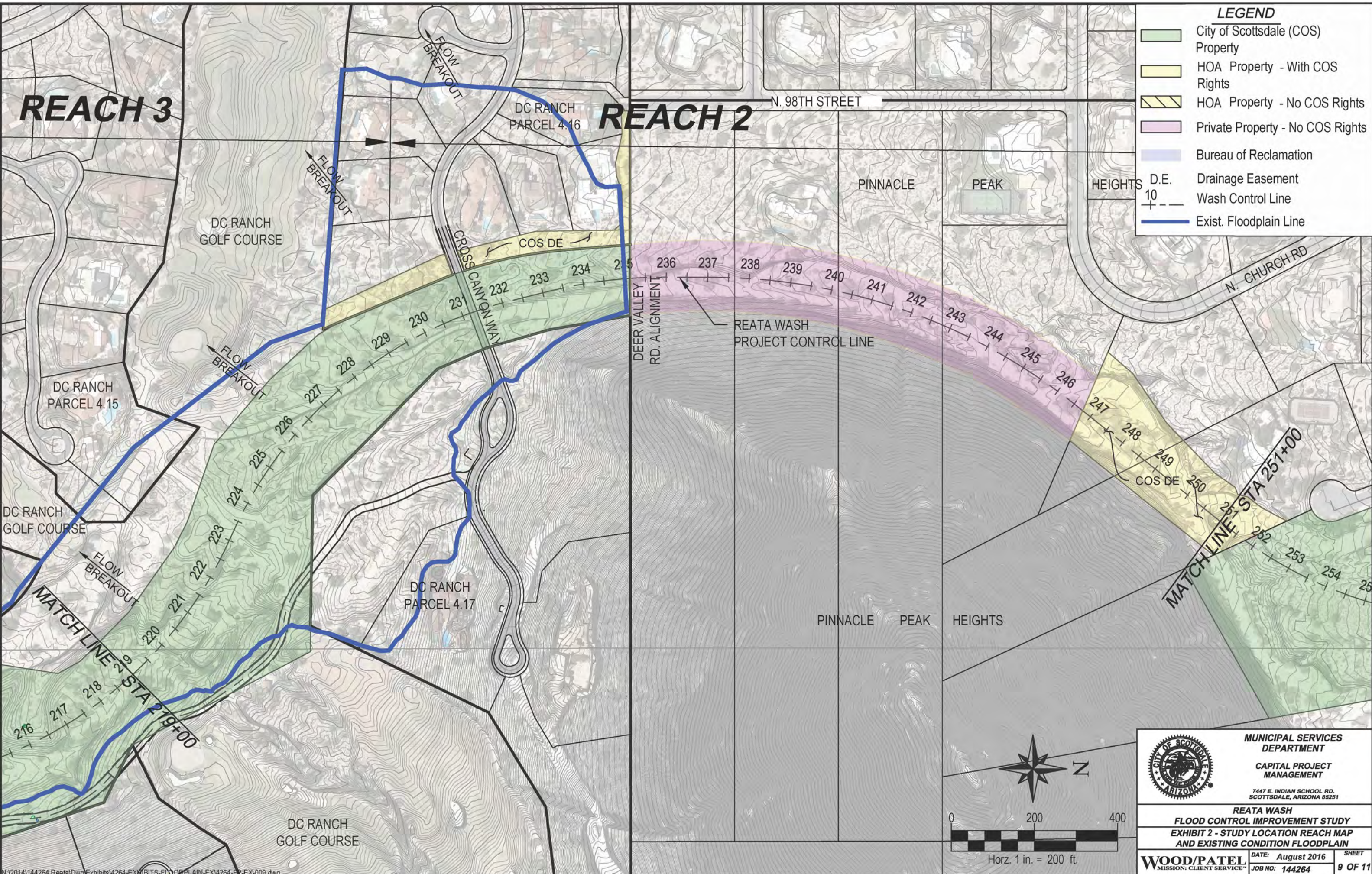
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<b>WOOD/PATEL</b> <small>MISSION: CLIENT SERVICE™</small>	DATE: August 2016 JOB NO: 144264	SHEET <b>8 OF 11</b>

# REACH 3

# REACH 2

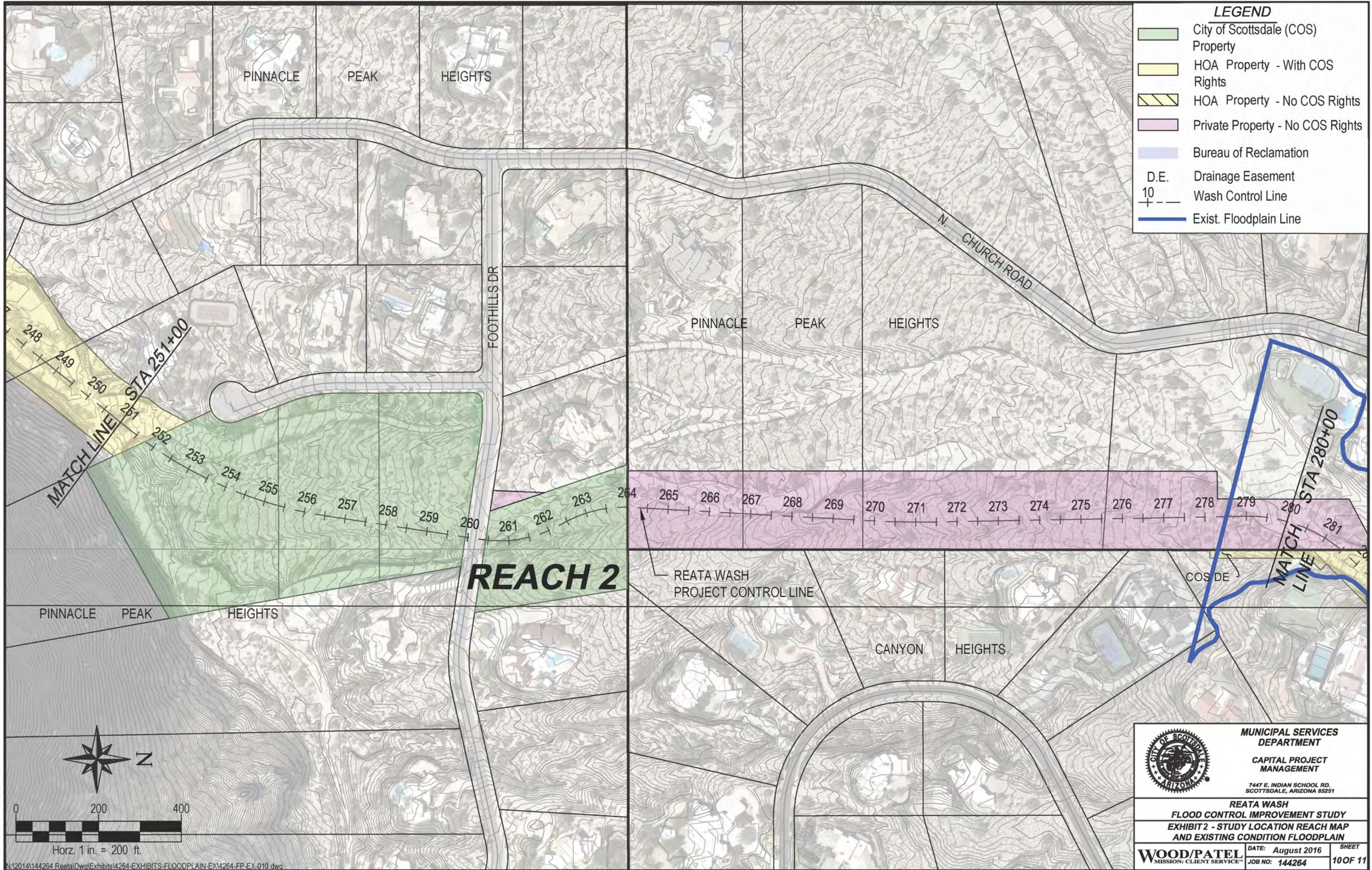
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	<small>7447 E. INDIAN SCHOOL RD.          SCOTTSDALE, ARIZONA 85251</small>	
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<b>WOOD/PATEL</b> <small>MISSION: CLIENT SERVICE™</small>	DATE: August 2016 JOB NO: 144264	SHEET <b>9 OF 11</b>





**LEGEND**

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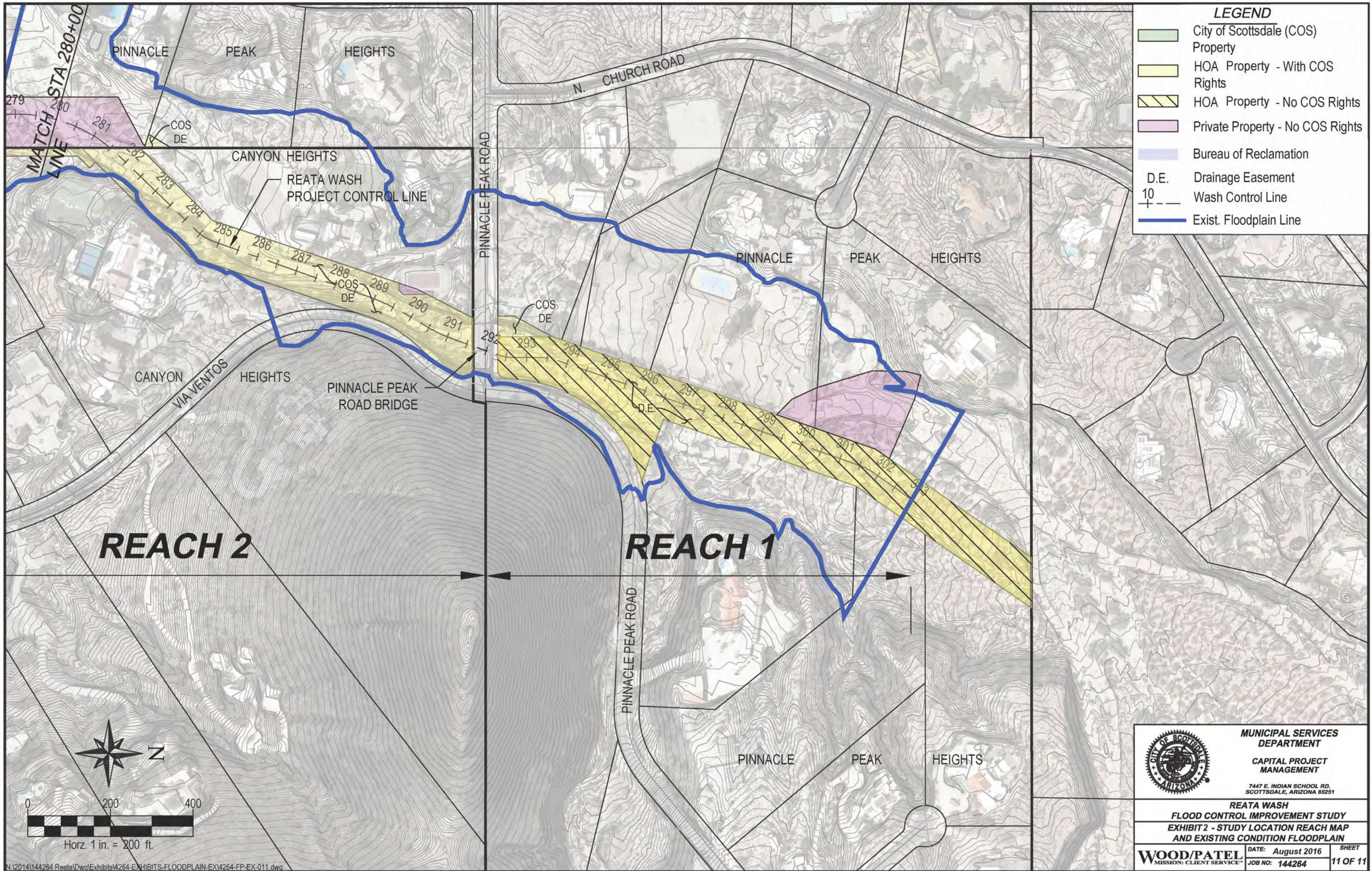
**REACH 2**

REATA WASH PROJECT CONTROL LINE

COS DE

	<b>MUNICIPAL SERVICES DEPARTMENT</b> <b>CAPITAL PROJECT MANAGEMENT</b>	
	<small>7447 E. INDIAN SCHOOL RD.          SCOTTSDALE, ARIZONA 85251</small>	
<b>REATA WASH FLOOD CONTROL IMPROVEMENT STUDY</b> <b>EXHIBIT 2 - STUDY LOCATION REACH MAP AND EXISTING CONDITION FLOODPLAIN</b>		
<b>WOOD/PATEL</b> <small>MISSION: CLIENT SERVICE™</small>	DATE: August 2016 JOB NO: 144264	SHEET <b>10 OF 11</b>

N  
 0 200 400  
 Horz. 1 in. = 200 ft.



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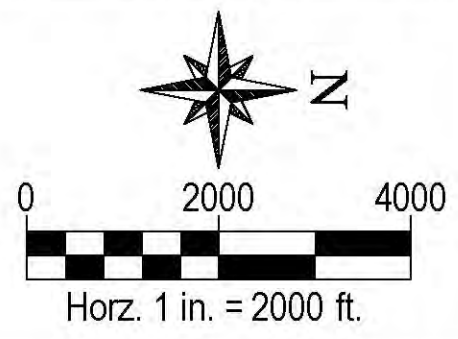
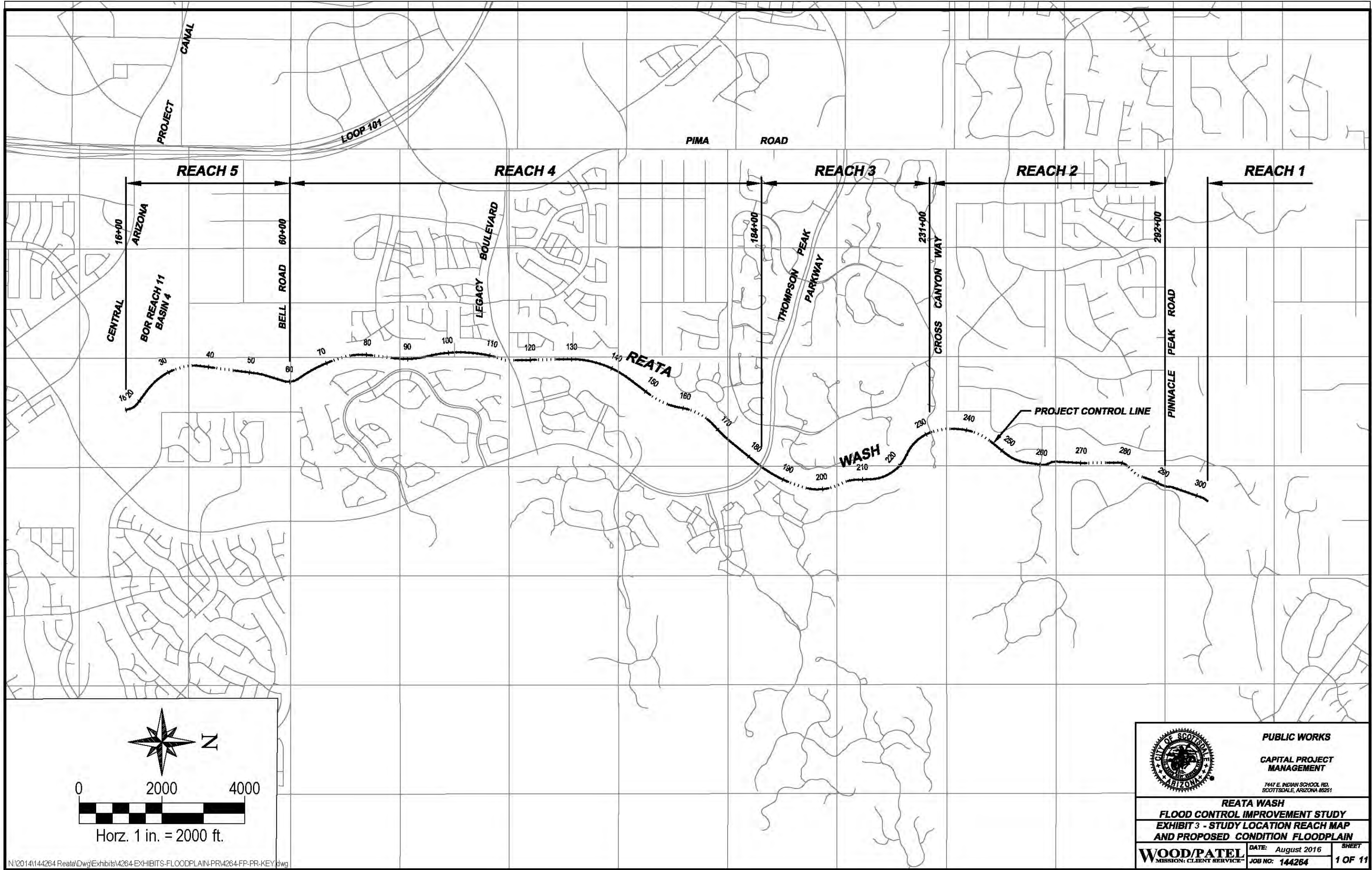
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**REACH 1**

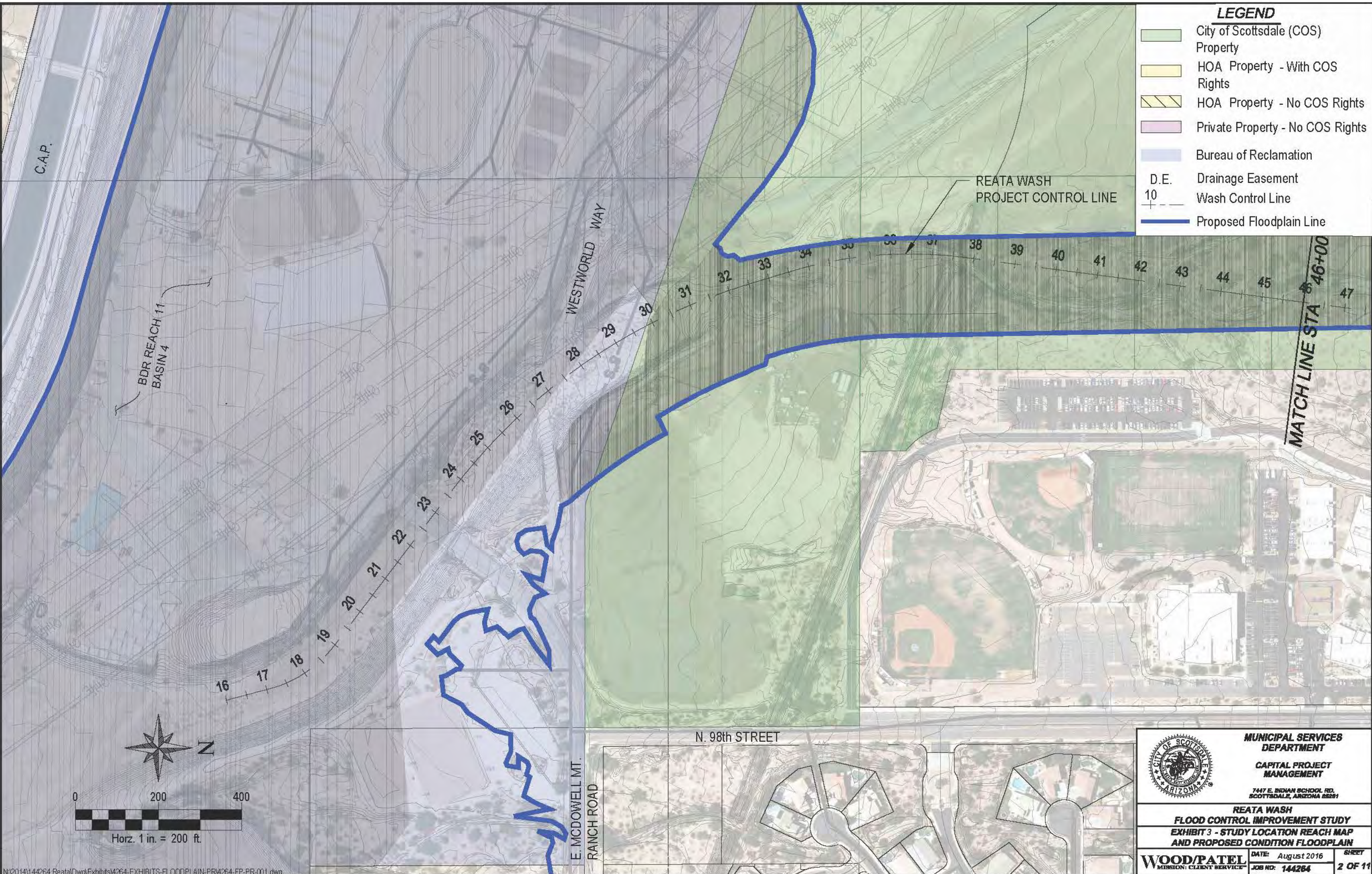


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	<b>CAPITAL PROJECT MANAGEMENT</b>	
7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
<b>REATA WASH</b>		
<b>FLOOD CONTROL IMPROVEMENT STUDY</b>		
<b>EXHIBIT 2 - STUDY LOCATION REACH MAP AND EXISTING CONDITION FLOODPLAIN</b>		
WOOD/PATEL	DATE: August 2016	SHEET
MISSION: CLIENT SERVICE™	JOB NO: 144264	11 OF 11

**EXHIBIT 3**  
**STUDY LOCATION REACH MAP**  
**AND PROPOSED CONDITION FLOODPLAIN**

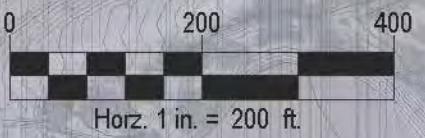


	<b>PUBLIC WORKS</b> <b>CAPITAL PROJECT MANAGEMENT</b> <small>7417 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251</small>	
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<b>WOOD/PATEL</b> <small>MISSION: CLIENT SERVICE™</small>	<small>DATE: August 2016</small> <small>JOB NO: 144264</small>	<small>SHEET</small> <b>1 OF 11</b>











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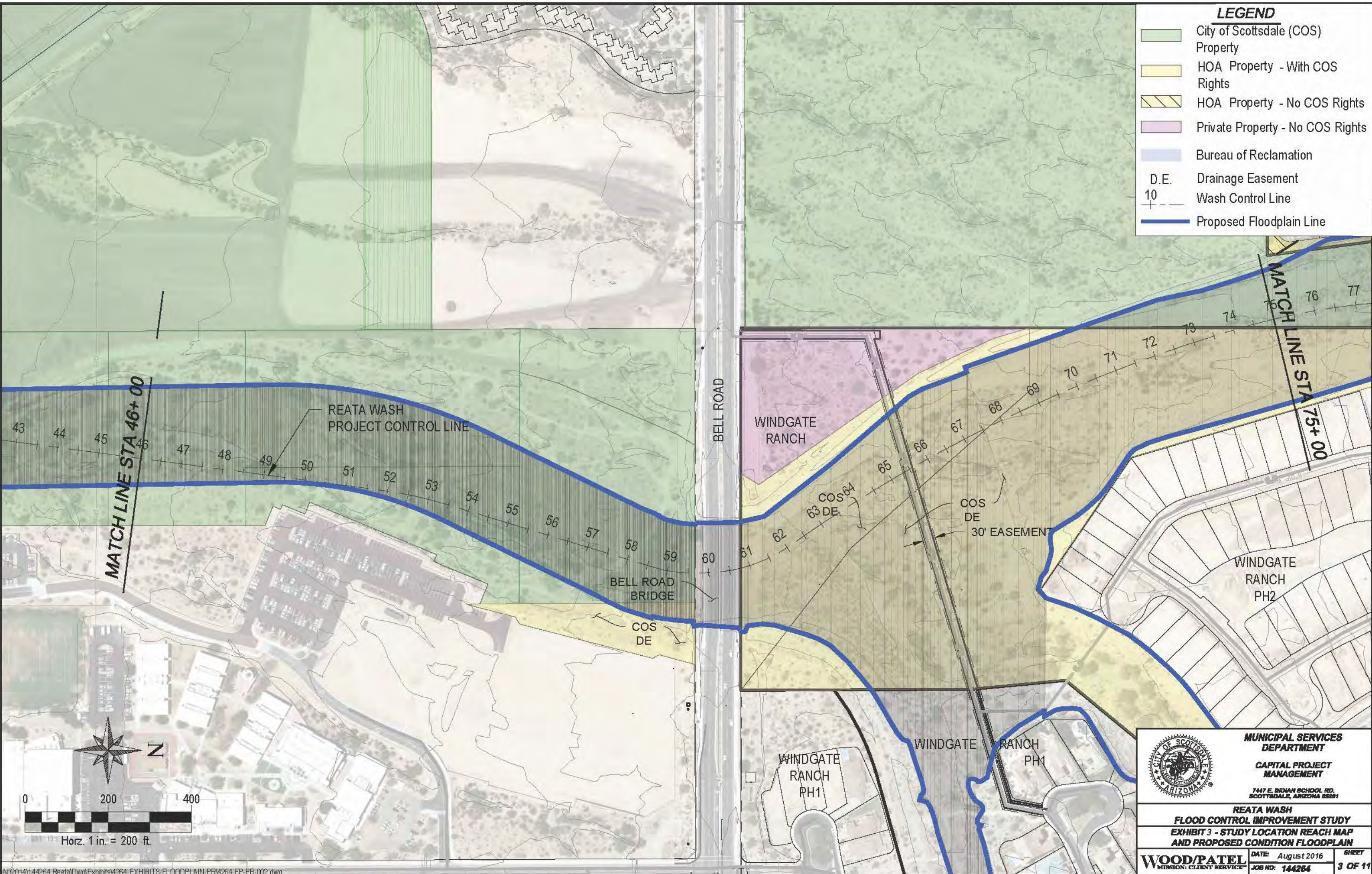
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	<b>MUNICIPAL SERVICES DEPARTMENT</b> <b>CAPITAL PROJECT MANAGEMENT</b> <small>7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85261</small>	
	<b>REATA WASH FLOOD CONTROL IMPROVEMENT STUDY</b> <b>EXHIBIT 3 - STUDY LOCATION REACH MAP AND PROPOSED CONDITION FLOODPLAIN</b>	
<b>WOODPATEL</b> <small>MISSION: CLIENT SERVICE</small>	DATE: August 2016 JOB NO: 144264	SHEET <b>2 OF 11</b>

- LEGEND**
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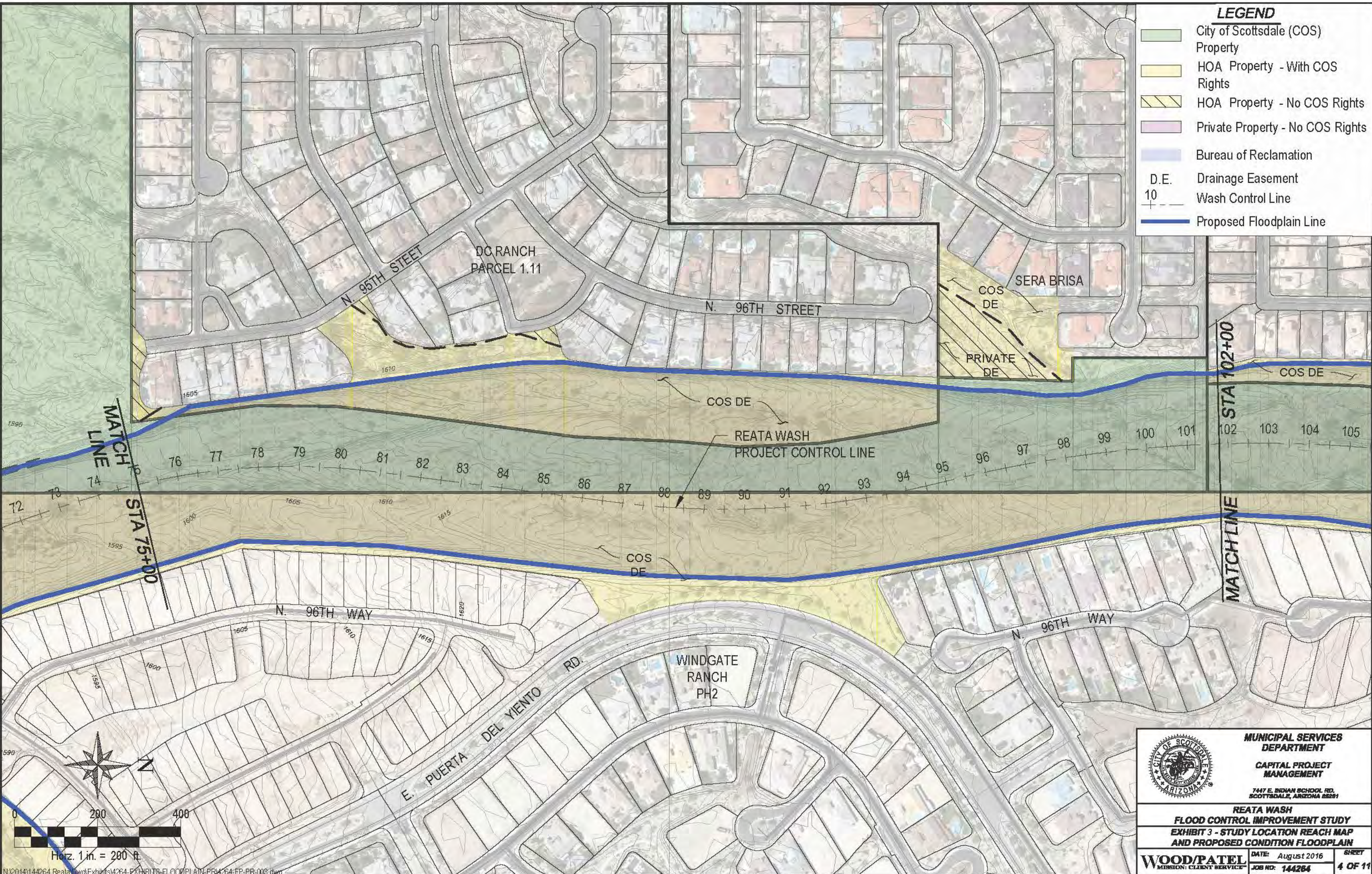
**MUNICIPAL SERVICES DEPARTMENT**  
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 7417 E. INDIAN SCHOOL RD.  
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**EXHIBIT 3 - STUDY LOCATION REACH MAP AND PROPOSED CONDITION FLOODPLAIN**

**WOODPATEL** DATE: August 2016 SHEET  
 MISSION: CLIENT SERVICE JOB NO: 144264 3 OF 11

**LEGEND**

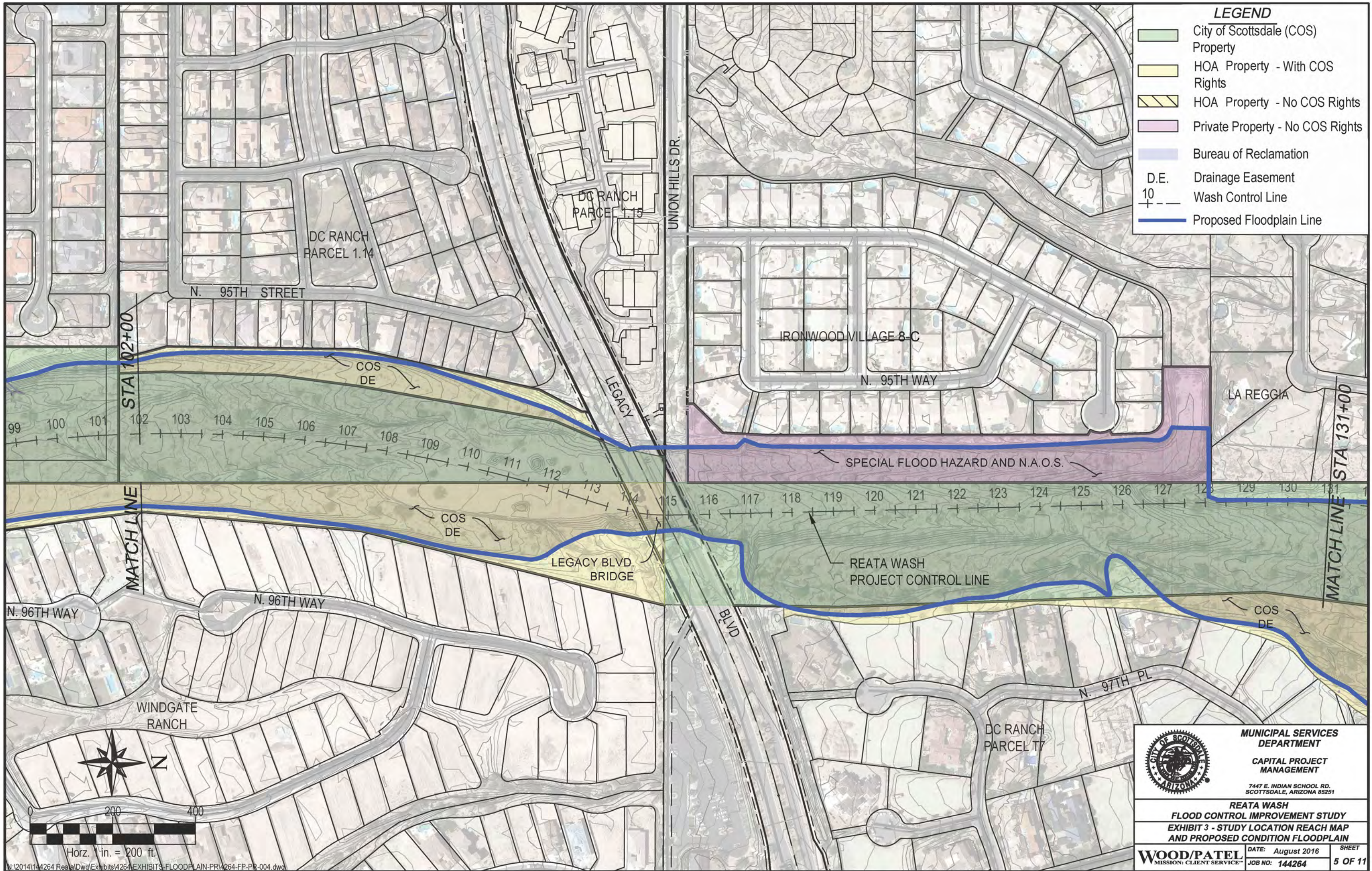
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	<b>MUNICIPAL SERVICES DEPARTMENT</b>
	<b>CAPITAL PROJECT MANAGEMENT</b>
	7417 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85261
<b>REATA WASH FLOOD CONTROL IMPROVEMENT STUDY EXHIBIT 3 - STUDY LOCATION REACH MAP AND PROPOSED CONDITION FLOODPLAIN</b>	
<b>WOOD/PATEL</b> <small>MISSION: CLIENT SERVICE</small>	DATE: August 2016 JOB NO: 144264
<b>4 OF 11</b>	

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**MUNICIPAL SERVICES DEPARTMENT**

**CAPITAL PROJECT MANAGEMENT**

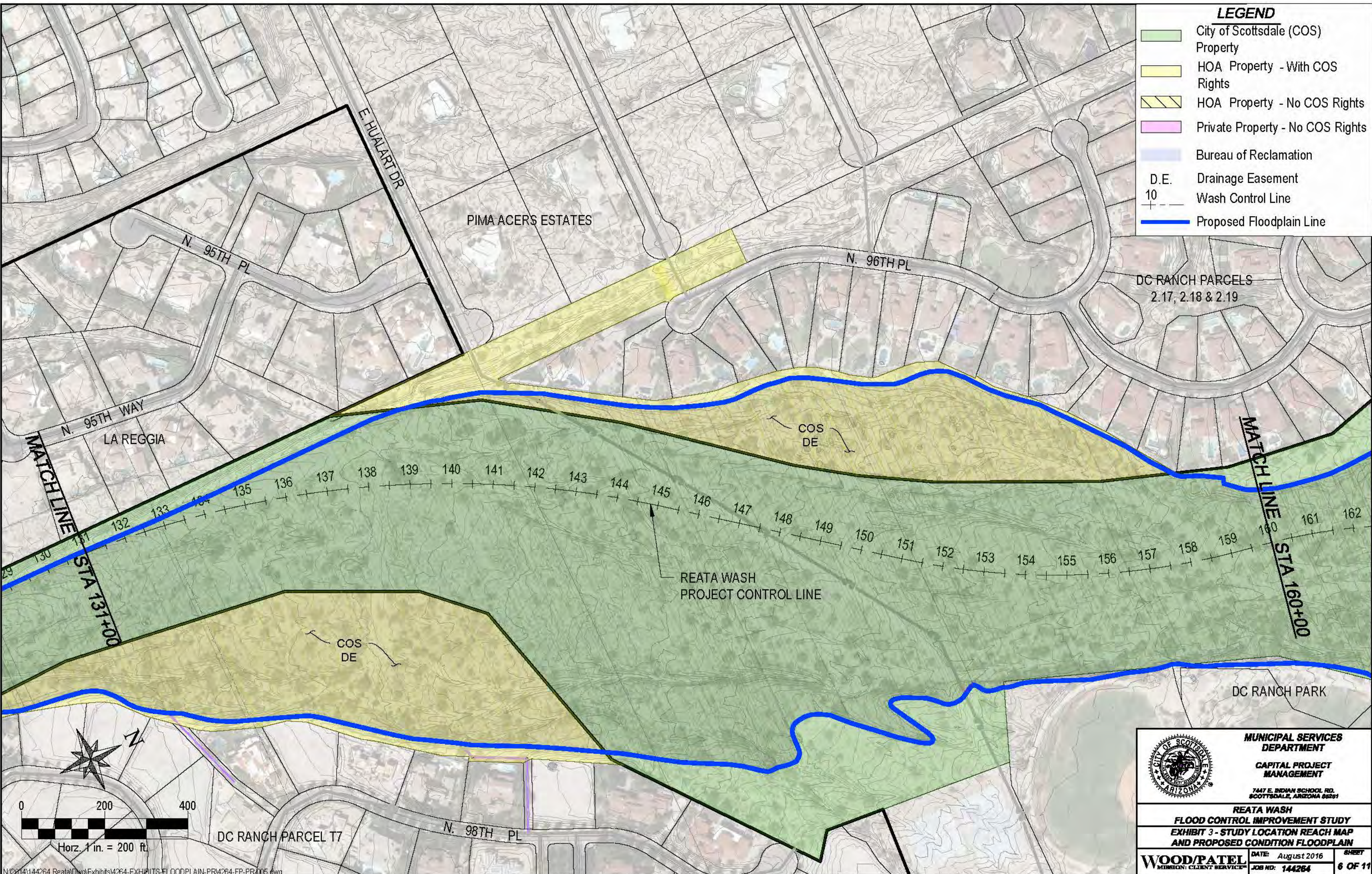
7447 E. INDIAN SCHOOL RD.  
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**LEGEND**

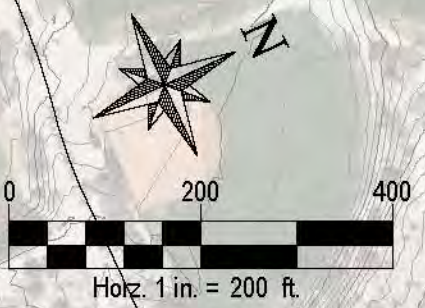
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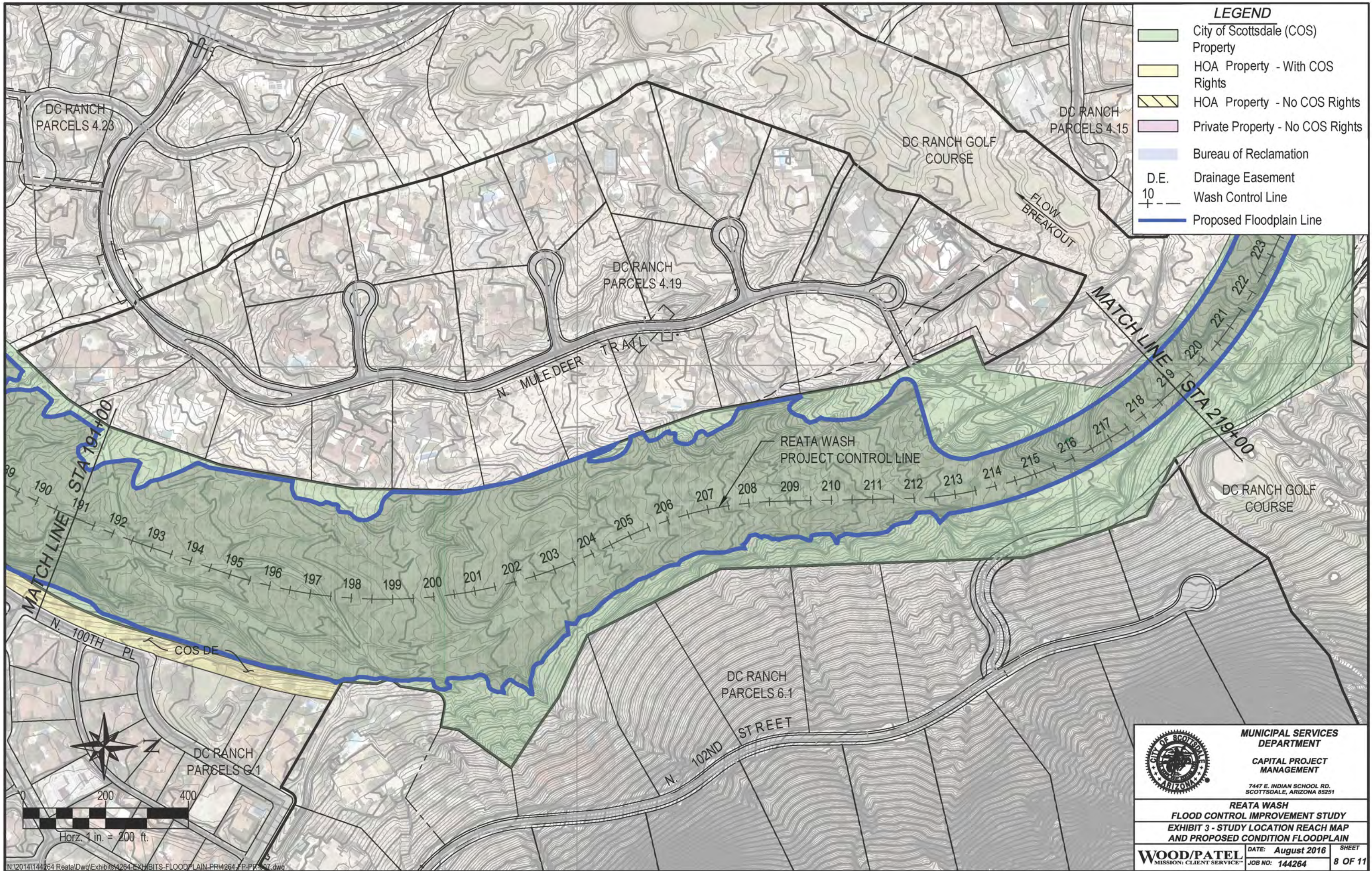
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<b>SHEET 6 OF 11</b>	

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	<b>MUNICIPAL SERVICES DEPARTMENT</b> <b>CAPITAL PROJECT MANAGEMENT</b> <small>7417 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85261</small>
	<b>REATA WASH</b> <b>FLOOD CONTROL IMPROVEMENT STUDY</b> <b>EXHIBIT 3 - STUDY LOCATION REACH MAP</b> <b>AND PROPOSED CONDITION FLOODPLAIN</b>
<b>WOODPATEL</b> <small>MISSION: CLIENT SERVICE</small>	<small>DATE: August 2016</small> <small>JOB NO: 144264</small>
<small>SHEET</small> <b>7 OF 11</b>	

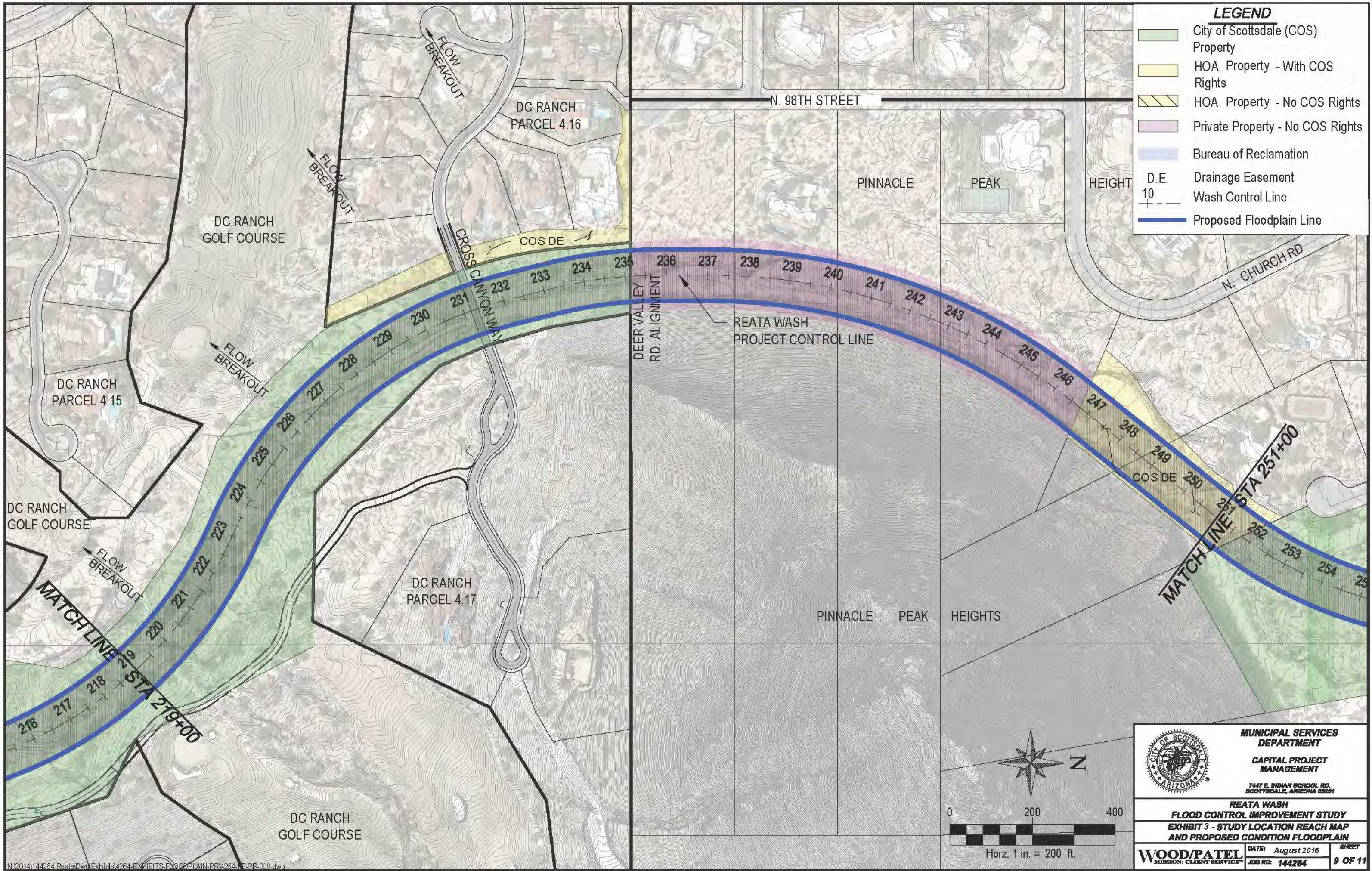


**LEGEND**

	City of Scottsdale (COS) Property
	HOA Property - With COS Rights
	HOA Property - No COS Rights
	Private Property - No COS Rights
	Bureau of Reclamation
	D.E. Drainage Easement
	10 Wash Control Line
	Proposed Floodplain Line




	<b>MUNICIPAL SERVICES DEPARTMENT</b> <b>CAPITAL PROJECT MANAGEMENT</b>	
	<small>7447 E. INDIAN SCHOOL RD.          SCOTTSDALE, ARIZONA 85251</small>	
<b>REATA WASH</b> <b>FLOOD CONTROL IMPROVEMENT STUDY</b> <b>EXHIBIT 3 - STUDY LOCATION REACH MAP</b> <b>AND PROPOSED CONDITION FLOODPLAIN</b>		
<b>WOOD/PATEL</b> <small>MISSION: CLIENT SERVICE™</small>	DATE: August 2016 JOB NO: 144264	SHEET <b>8 OF 11</b>



**LEGEND**

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- Bureau of Reclamation
- D.E. Drainage Easement
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- Proposed Floodplain Line



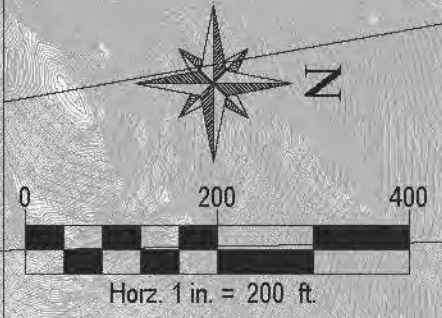
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**CAPITAL PROJECT MANAGEMENT**  
 7417 E. INDIAN SCHOOL RD.  
 SCOTTSDALE, ARIZONA 85261

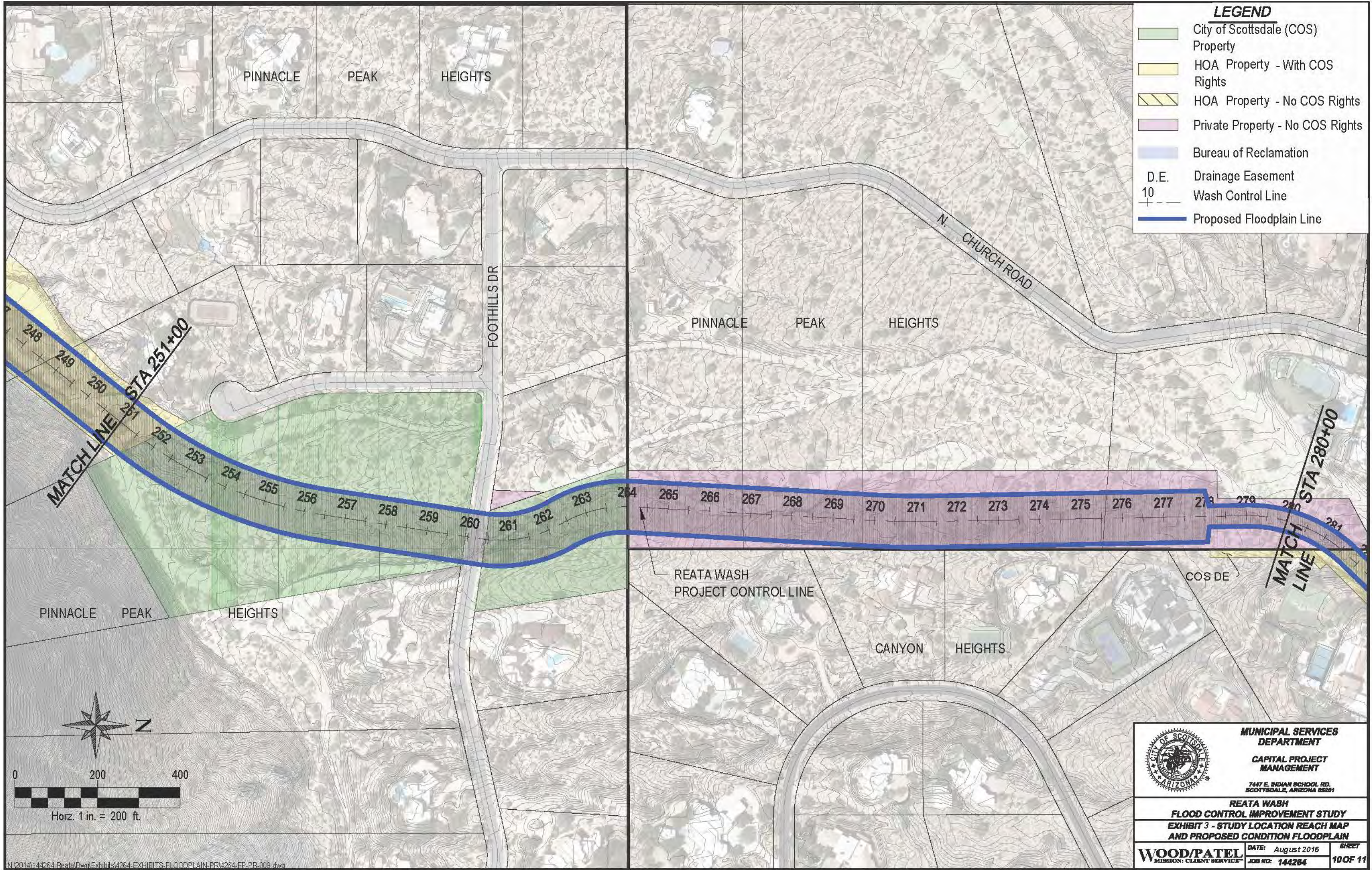
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**REATA WASH**  
**FLOOD CONTROL IMPROVEMENT STUDY**  
**EXHIBIT 3 - STUDY LOCATION REACH MAP**  
**AND PROPOSED CONDITION FLOODPLAIN**

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<b>WOOD/PATEL</b> <small>MISSION: CLIENT SERVICE</small>	DATE: August 2016	SHEET
	JOB NO: 144264	9 OF 11



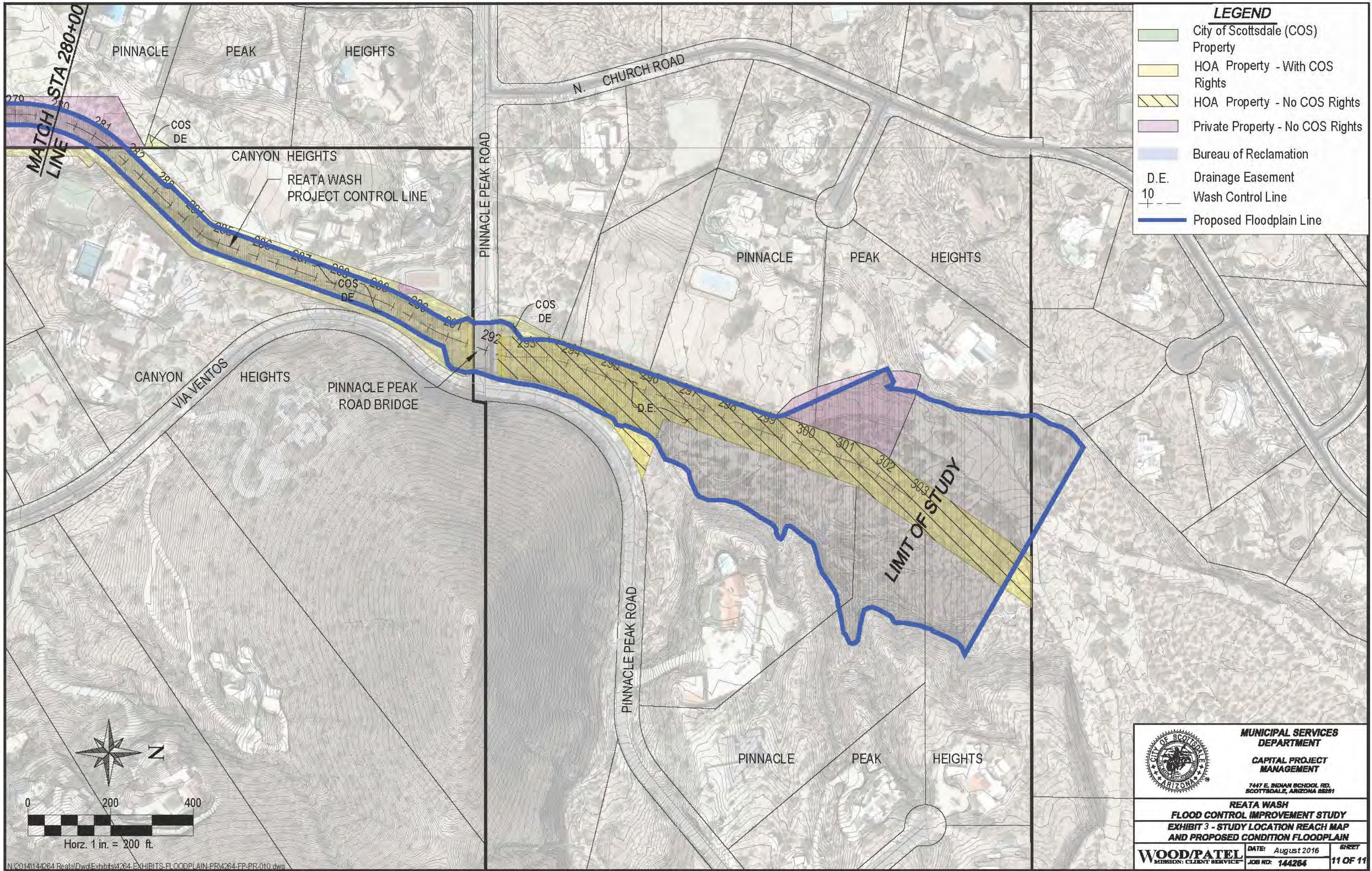


**LEGEND**

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Horz. 1 in. = 200 ft.

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	<b>CAPITAL PROJECT MANAGEMENT</b>
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<b>REATA WASH FLOOD CONTROL IMPROVEMENT STUDY</b>	
<b>EXHIBIT 3 - STUDY LOCATION REACH MAP AND PROPOSED CONDITION FLOODPLAIN</b>	
<b>WOOD/PATEL</b>	DATE: August 2016
MISSION: CLIENT SERVICE™	JOB NO: 144264
	10 OF 11



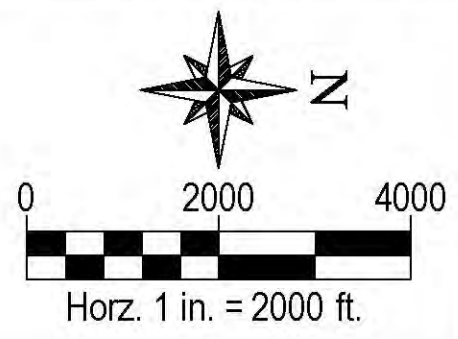
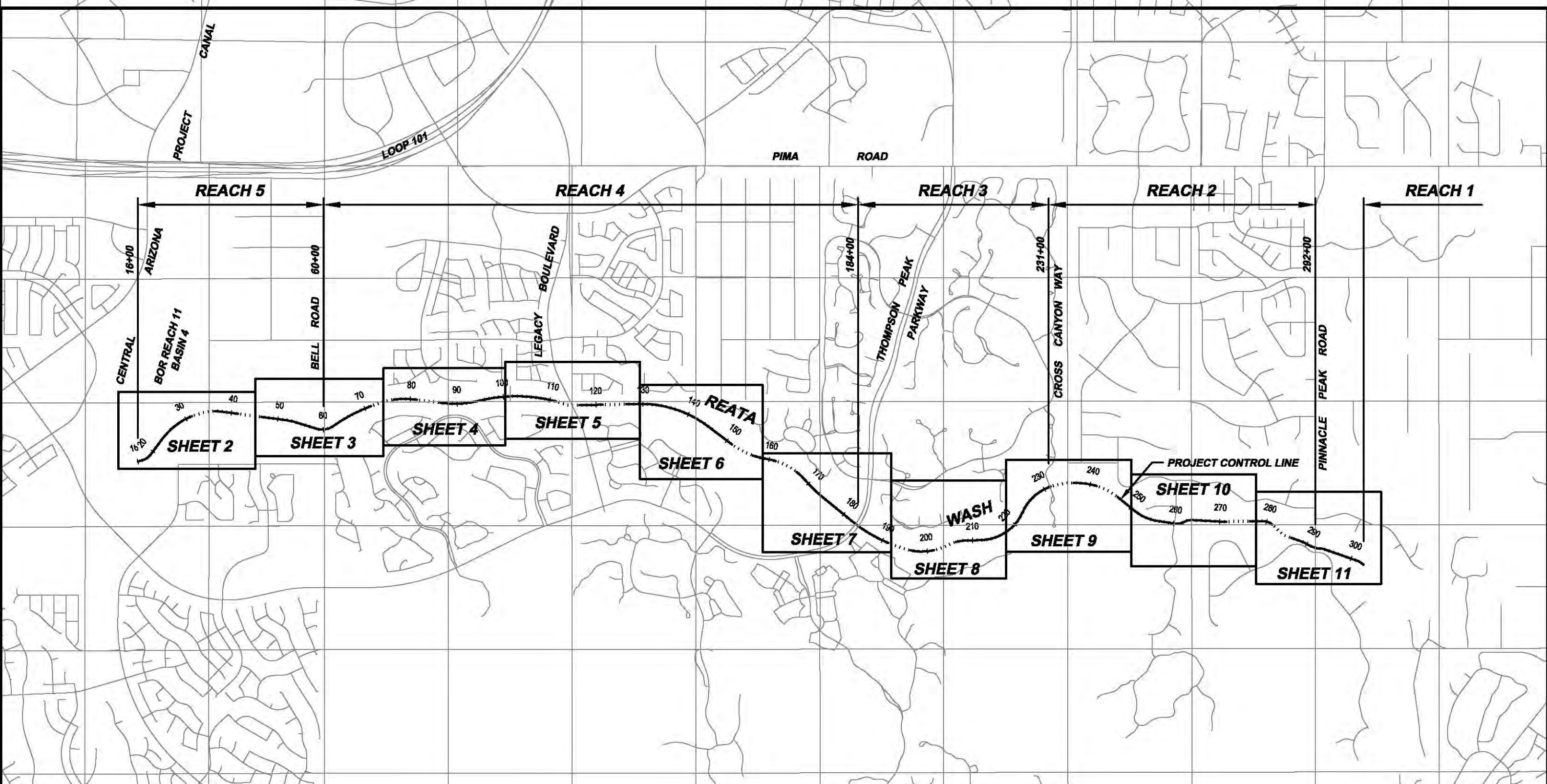
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	<b>CAPITAL PROJECT MANAGEMENT</b>	
7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85261		
<b>REATA WASH</b>		
<b>FLOOD CONTROL IMPROVEMENT STUDY</b>		
<b>EXHIBIT 3 - STUDY LOCATION REACH MAP AND PROPOSED CONDITION FLOODPLAIN</b>		
<b>WOOD/PATEL</b>	DATE: August 2016	SHEET
MISSION: CLIENT SERVICE™	JOB NO: 144264	11 OF 11

**EXHIBIT 4**  
**LAND RIGHTS**

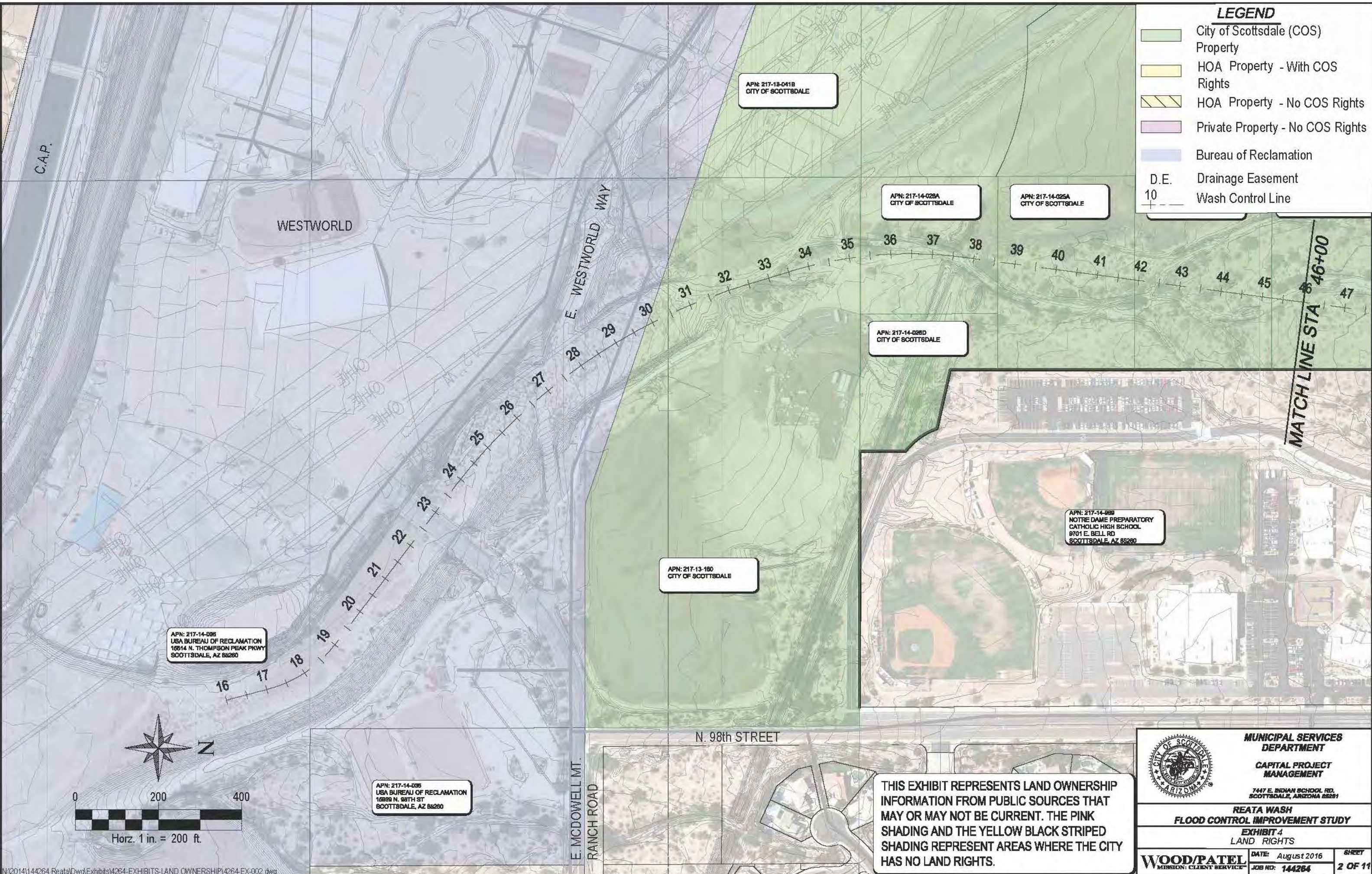


	<b>PUBLIC WORKS</b> <b>CAPITAL PROJECT MANAGEMENT</b> <small>7417 E. INDIAN SCHOOL RD.          SCOTTSDALE, ARIZONA 85251</small>	
	<b>REATA WASH</b> <b>FLOOD CONTROL IMPROVEMENT STUDY</b> <b>EXHIBIT 4</b> <b>LAND RIGHTS</b>	
	<b>WOOD/PATEL</b> <small>MISSION: CLIENT SERVICE™</small>	DATE: August 2016 JOB NO: 144264



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- D.E. Drainage Easement
- 10 Wash Control Line



APN: 217-14-086  
USA BUREAU OF RECLAMATION  
16814 N. THOMPSON PEAK PKWY  
SCOTTSDALE, AZ 86260

APN: 217-13-041B  
CITY OF SCOTTSDALE

APN: 217-14-028A  
CITY OF SCOTTSDALE

APN: 217-14-025A  
CITY OF SCOTTSDALE

APN: 217-14-028D  
CITY OF SCOTTSDALE

APN: 217-13-180  
CITY OF SCOTTSDALE

APN: 217-14-088  
NOTRE DAME PREPARATORY  
CATHOLIC HIGH SCHOOL  
9701 E. BELL RD  
SCOTTSDALE, AZ 86260

APN: 217-14-086  
USA BUREAU OF RECLAMATION  
16889 N. 98TH ST  
SCOTTSDALE, AZ 86260

THIS EXHIBIT REPRESENTS LAND OWNERSHIP INFORMATION FROM PUBLIC SOURCES THAT MAY OR MAY NOT BE CURRENT. THE PINK SHADING AND THE YELLOW BLACK STRIPED SHADING REPRESENT AREAS WHERE THE CITY HAS NO LAND RIGHTS.



**MUNICIPAL SERVICES DEPARTMENT**

**CAPITAL PROJECT MANAGEMENT**

7447 E. INDIAN SCHOOL RD.  
SCOTTSDALE, ARIZONA 86261

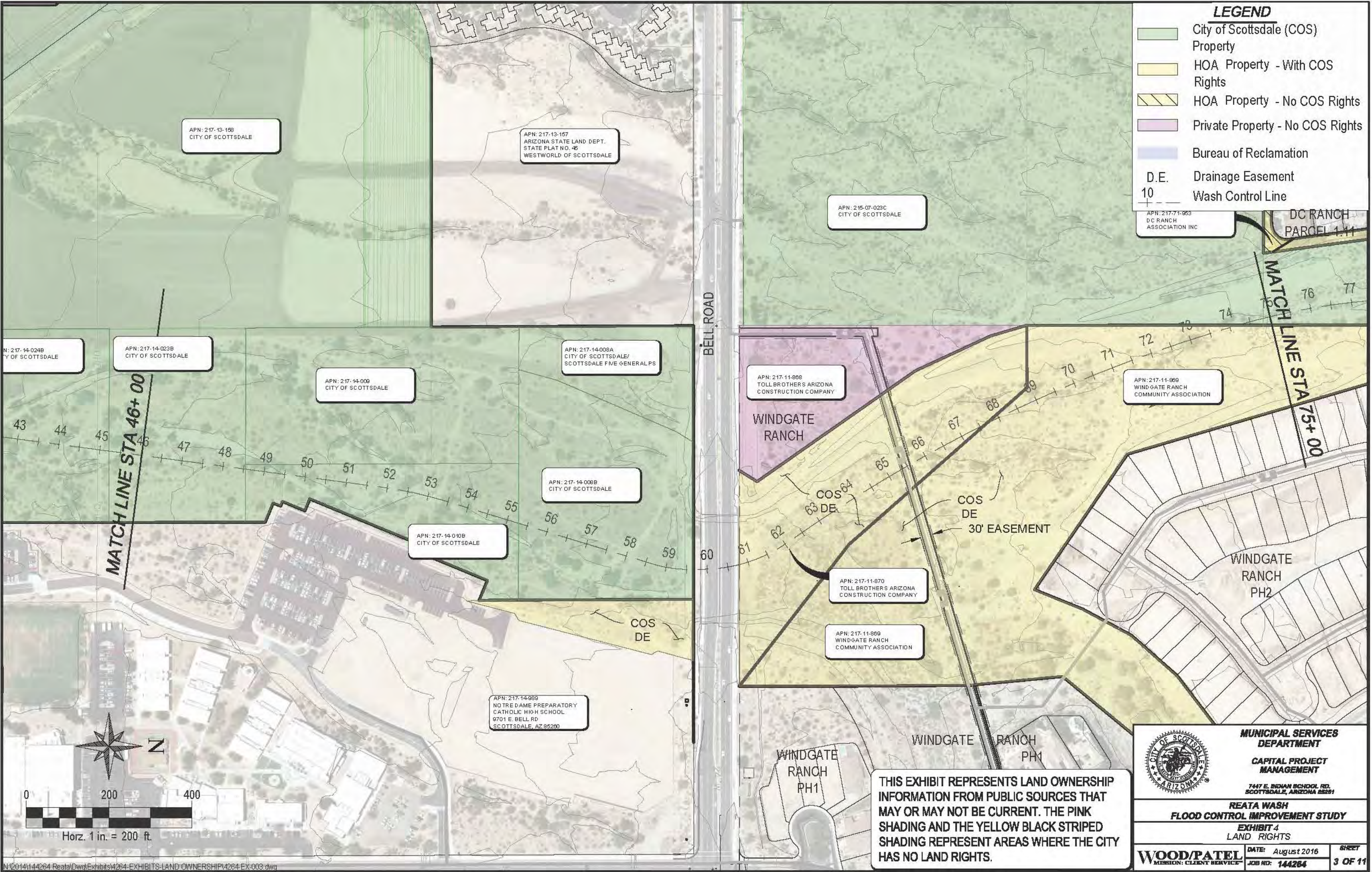
**REATA WASH FLOOD CONTROL IMPROVEMENT STUDY**

**EXHIBIT 4 LAND RIGHTS**

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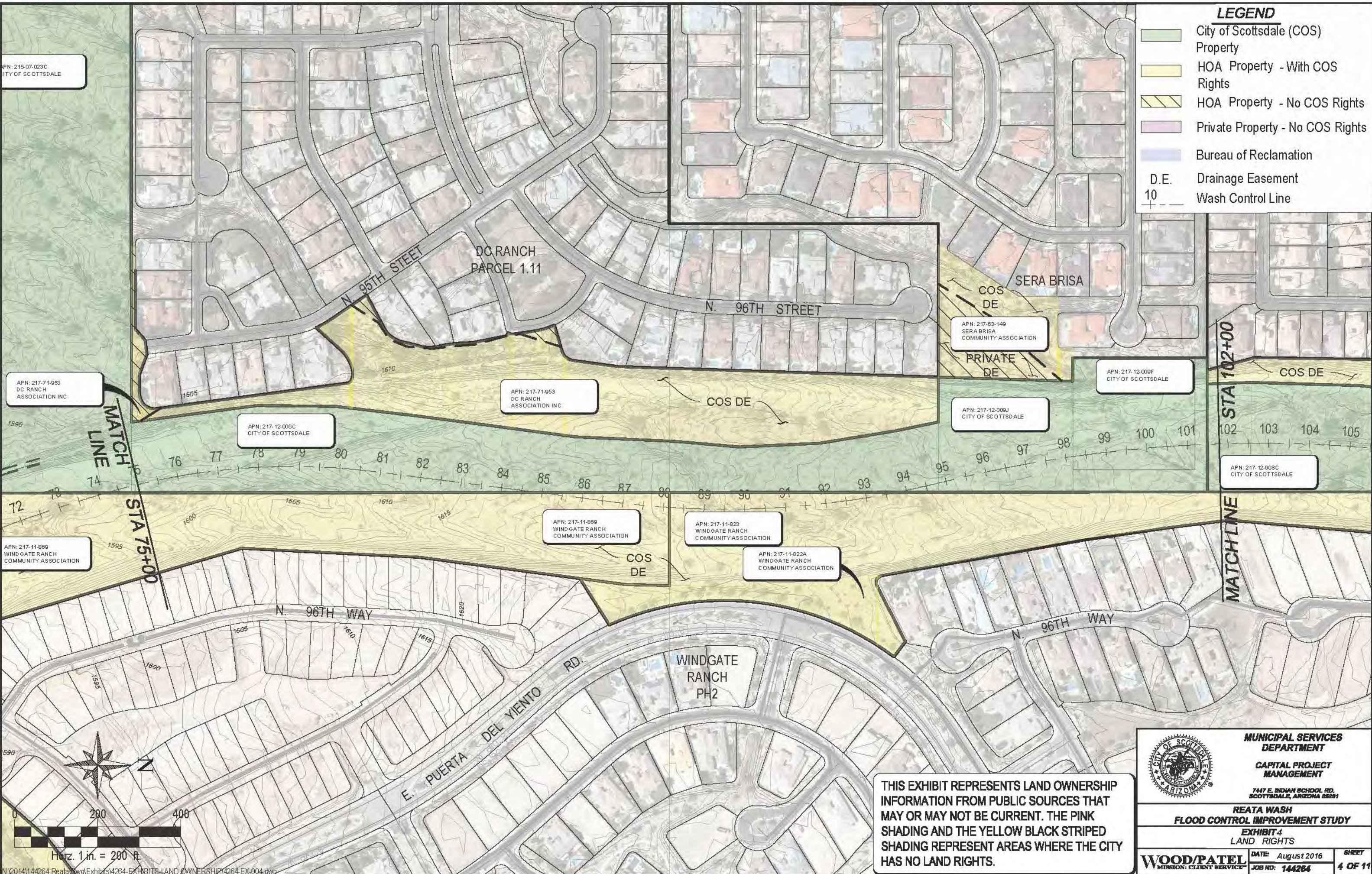
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 7447 E. INDIAN SCHOOL RD.  
 SCOTTSDALE, ARIZONA 85261

**REATA WASH FLOOD CONTROL IMPROVEMENT STUDY**  
**EXHIBIT 4 LAND RIGHTS**

**WOOD/PATEL** DATE: August 2016 SHEET 3 OF 11  
 MISSION: CLIENT SERVICE JOB NO: 144264

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APN: 215-07-023C  
CITY OF SCOTTSDALE

APN: 217-71-953  
DC RANCH ASSOCIATION INC

APN: 217-12-006C  
CITY OF SCOTTSDALE

APN: 217-71-953  
DC RANCH ASSOCIATION INC

APN: 217-63-149  
SERA BRISA COMMUNITY ASSOCIATION

APN: 217-12-009F  
CITY OF SCOTTSDALE

APN: 217-12-009J  
CITY OF SCOTTSDALE

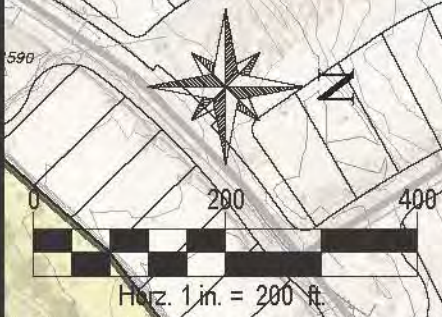
APN: 217-12-008C  
CITY OF SCOTTSDALE

APN: 217-11-869  
WINDGATE RANCH COMMUNITY ASSOCIATION

APN: 217-11-869  
WINDGATE RANCH COMMUNITY ASSOCIATION

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WINDGATE RANCH COMMUNITY ASSOCIATION

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WINDGATE RANCH COMMUNITY ASSOCIATION

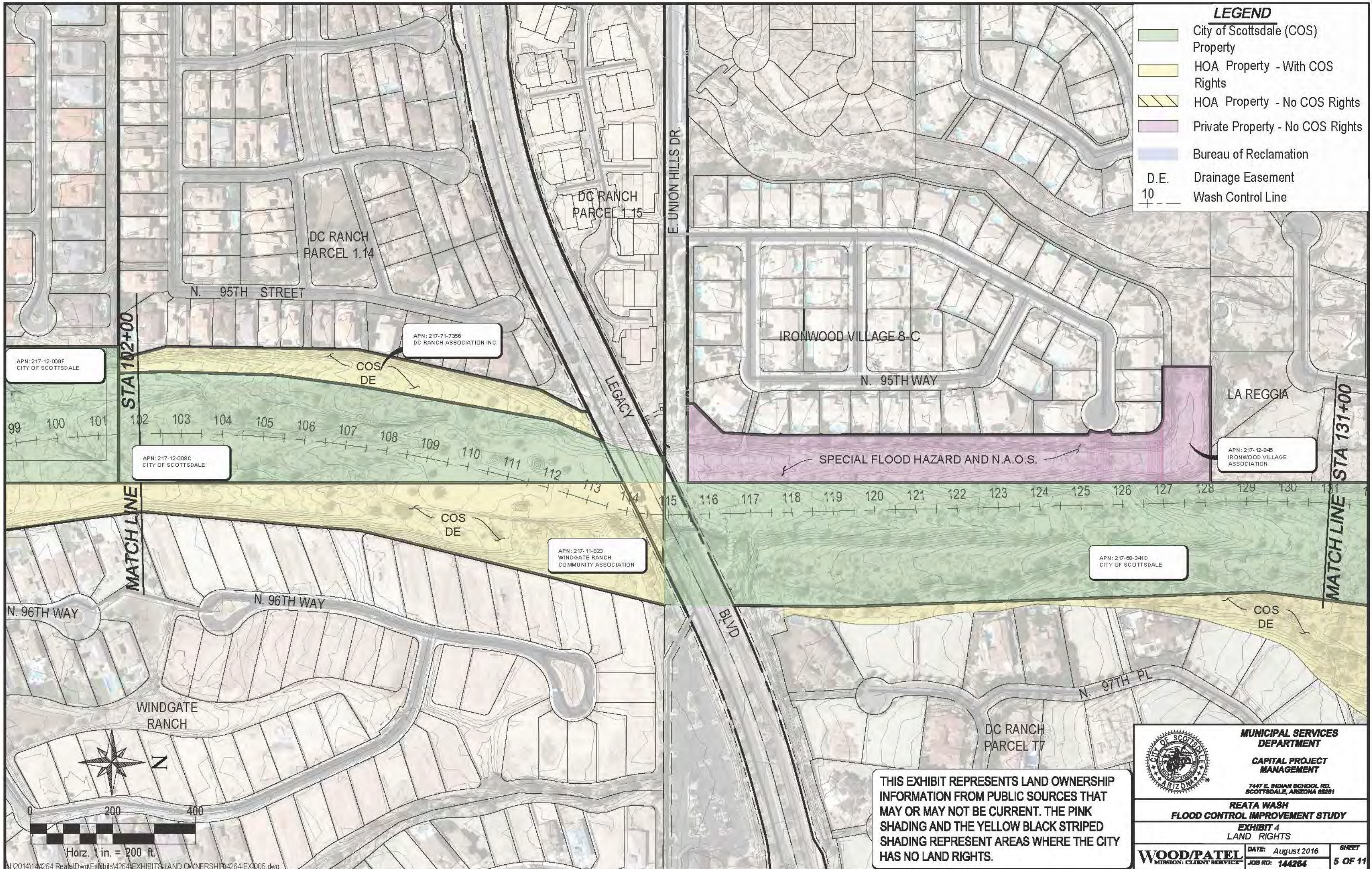


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	<b>REATA WASH FLOOD CONTROL IMPROVEMENT STUDY</b> <b>EXHIBIT 4 LAND RIGHTS</b>
	<b>WOOD/PATEL</b> <small>MISSION: CLIENT SERVICE</small>
<small>DATE: August 2016</small> <small>JOB NO: 144264</small>	<small>SHEET 4 OF 11</small>

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 SCOTTSDALE, ARIZONA 85261

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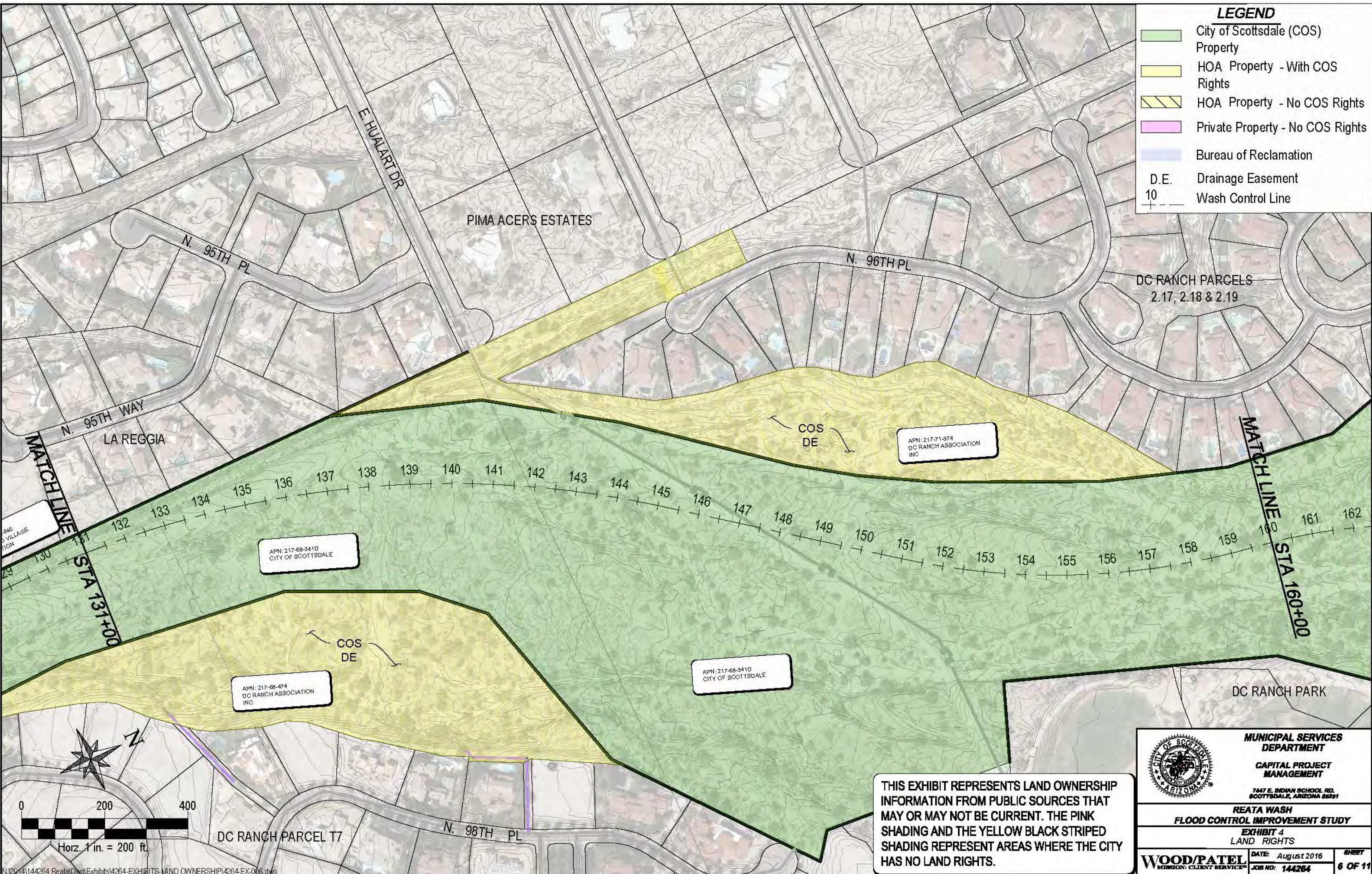
**REATA WASH FLOOD CONTROL IMPROVEMENT STUDY**  
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**WOOD/PATEL**      DATE: August 2016      SHEET  
 MISSION: CLIENT SERVICE      JOB NO: 144264      5 OF 11

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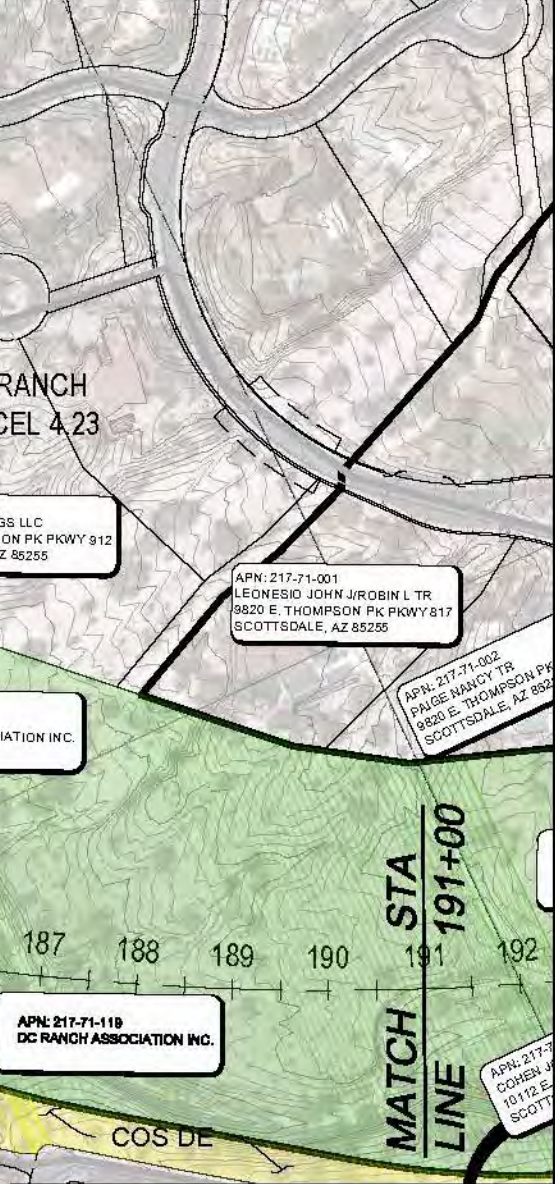
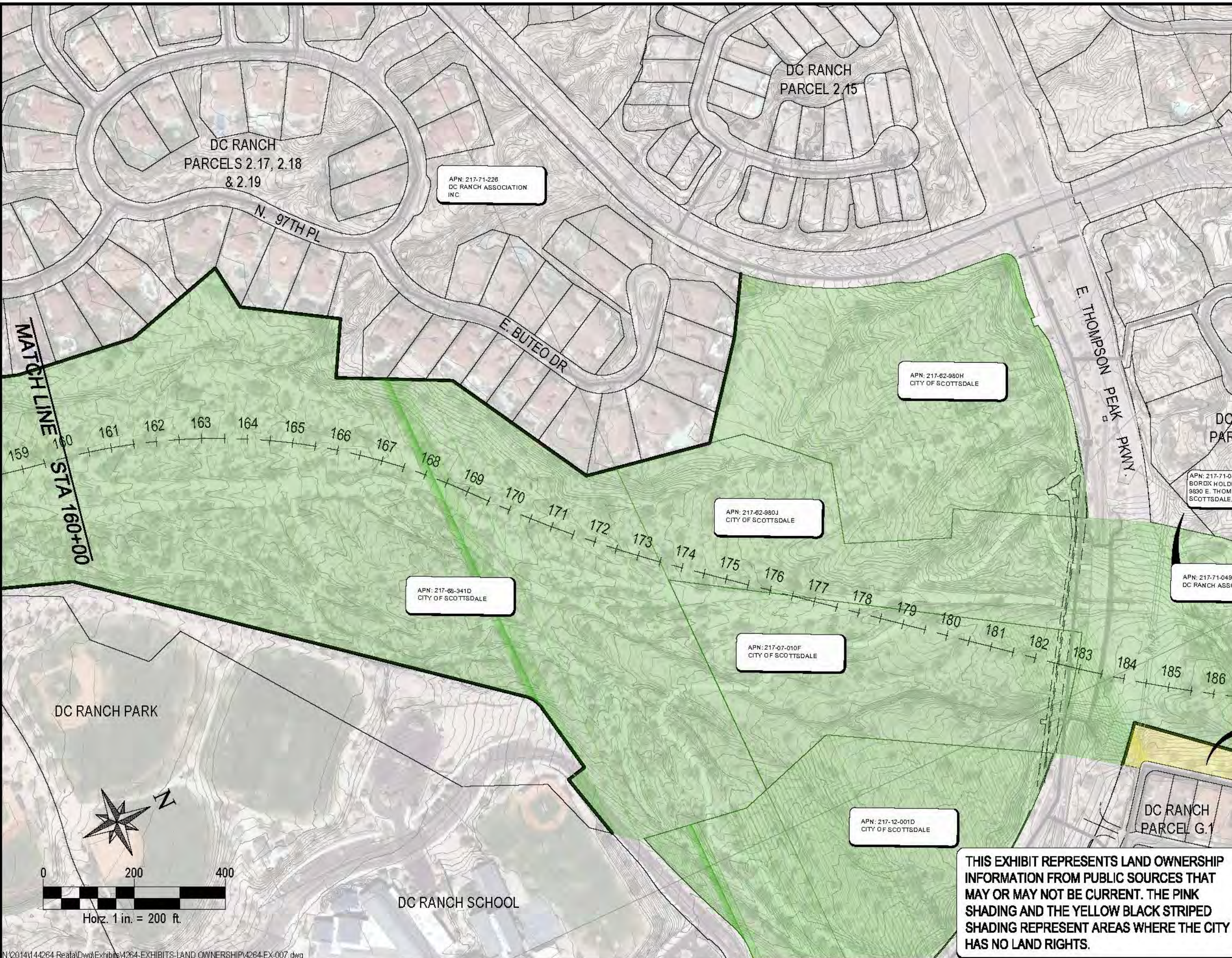


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<b>WOOD/PATEL</b> <small>MISSION: CLIENT SERVICE™</small>	<small>DATE: August 2016</small> <small>JOB NO: 144264</small>
<small>SHEET</small> <b>6 OF 11</b>	

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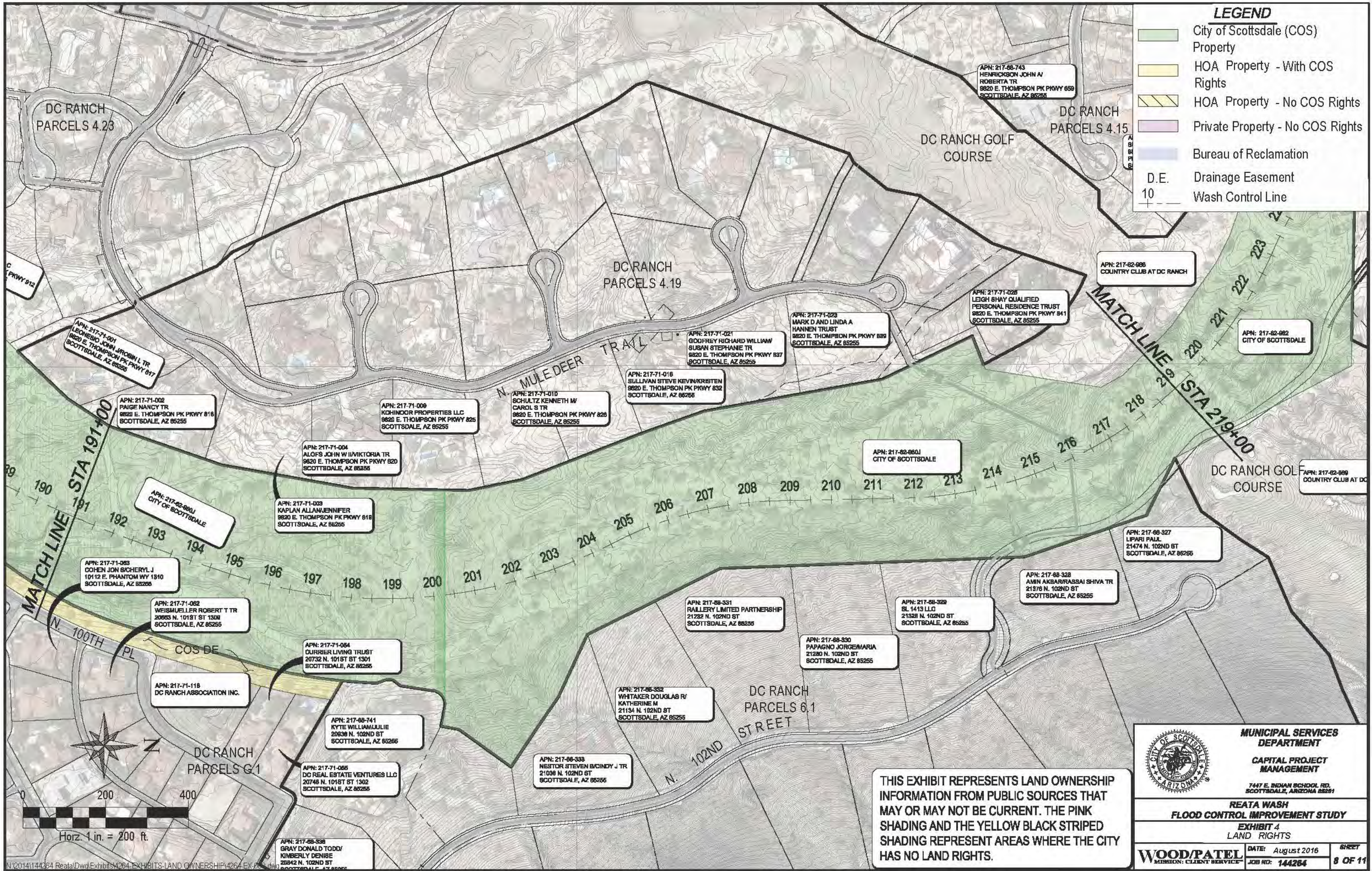
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**CAPITAL PROJECT MANAGEMENT**  
 7417 E. INDIAN SCHOOL RD.  
 SCOTTSDALE, ARIZONA 85261

**REATA WASH FLOOD CONTROL IMPROVEMENT STUDY**  
**EXHIBIT 4 LAND RIGHTS**

**WOOD/PATEL** DATE: August 2016 SHEET  
 MISSION: CLIENT SERVICE JOB NO: 144264 7 OF 11

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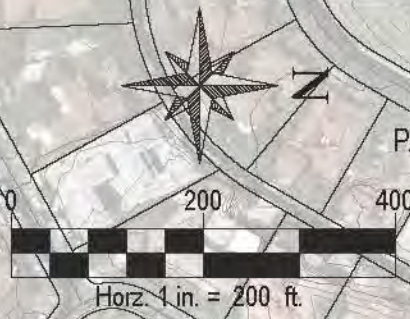
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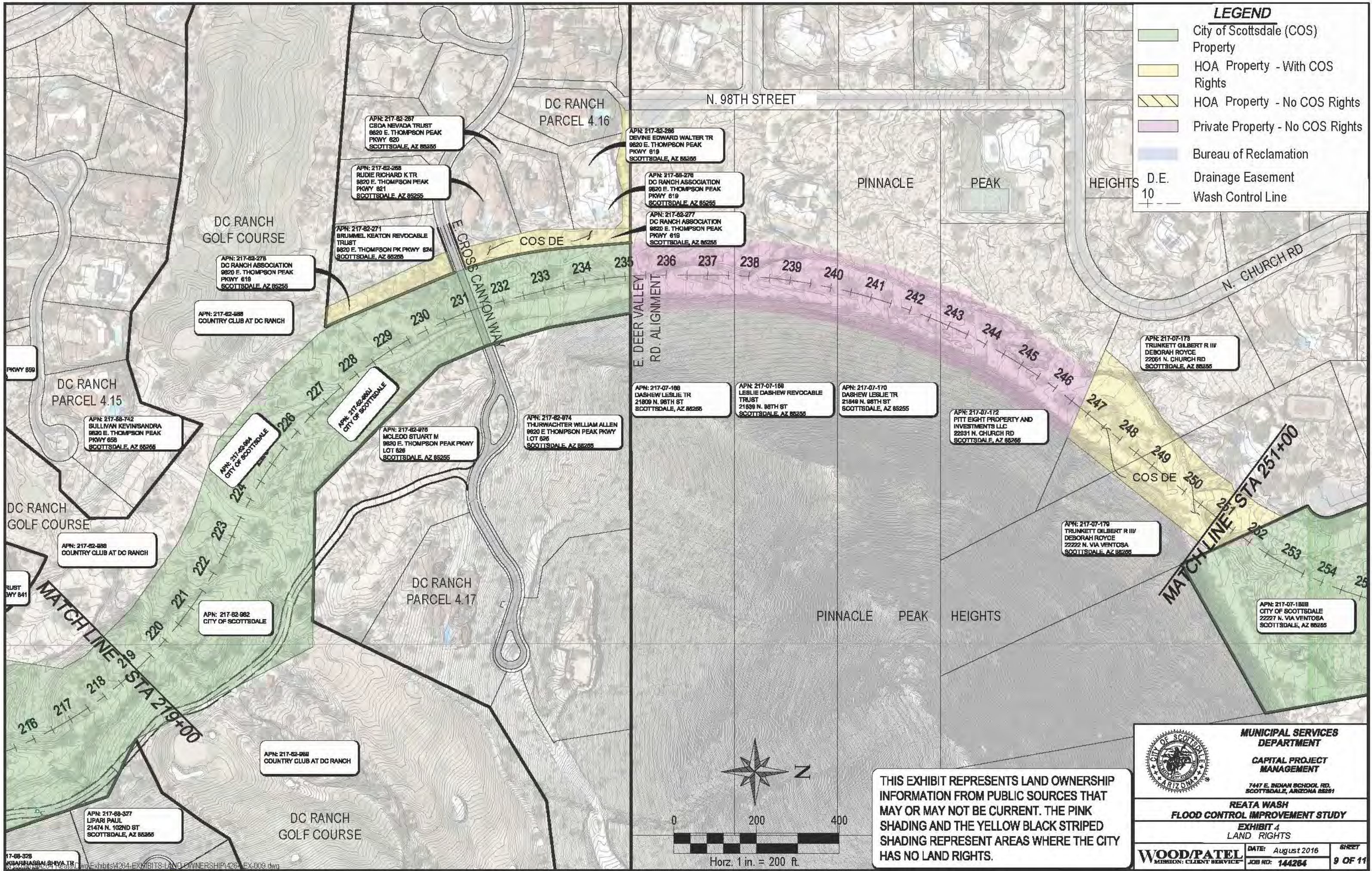
**WOOD/PATEL**      DATE: August 2016      SHEET

MISSION: CLIENT SERVICE      JOB NO: 144264      8 OF 11



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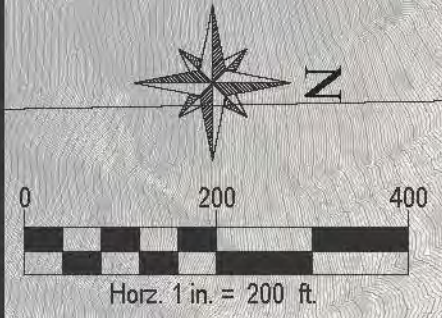
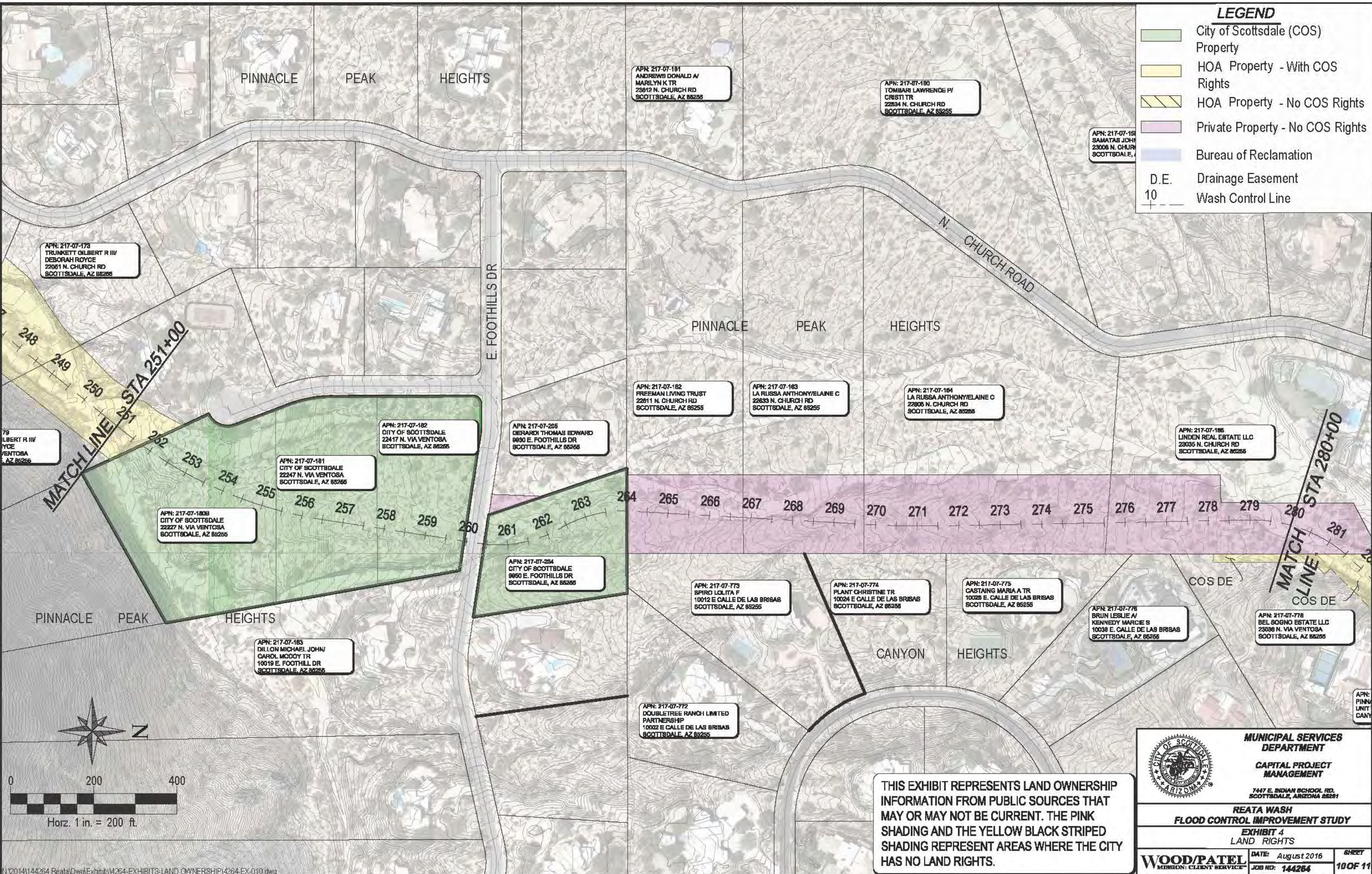
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<b>WOOD/PATEL</b> MISSION: CLIENT SERVICE	DATE: August 2016	SHEET
	JOB NO: 144264	9 OF 11




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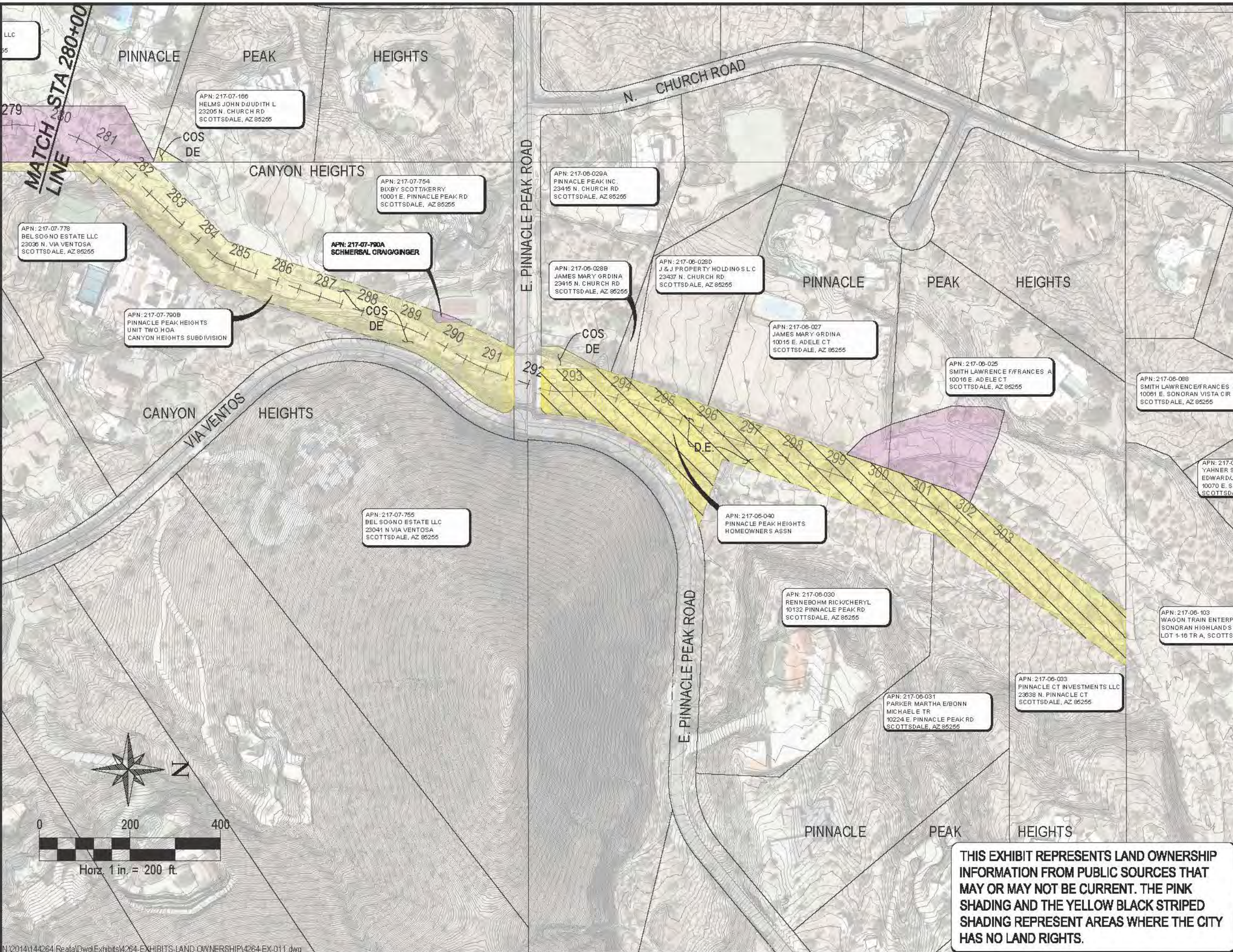
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<b>WOOD/PATEL</b> <small>MISSION: CLIENT SERVICE</small>	DATE: August 2016
JOB NO: 144264	SHEET 10 OF 11




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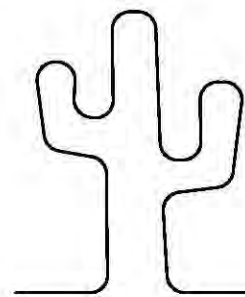
<b>WOOD/PATEL</b> <small>MISSION: CLIENT SERVICE</small>	DATE: August 2016	SHEET
	JOB NO: 144264	11 OF 11

**EXHIBIT 5**  
**CONCEPT DESIGN PLAN (15%)**



# CITY OF SCOTTSDALE

## PUBLIC IMPROVEMENTS



**COUNCIL**  
 W.J. "JIM" LANE, MAYOR  
 SUZANNE KLAPP  
 VIRGINIA KORTE  
 KATHY LITTLEFIELD  
 LINDA MILHAVEN  
 GUY PHILLIPS  
 DAVID N. SMITH  
**CITY MANAGER**  
 BRIAN BIESEMEYER, ACTING  
**CITY ATTORNEY**  
 BRUCE WASHBURN  
**CITY CLERK**  
 CAROLYN JAGGER

**"AS-BUILT" CERTIFICATION**

I HEREBY CERTIFY THAT THE "AS-BUILT" IMPROVEMENTS AS SHOWN HEREON ARE LOCATED AS NOTED, AND THE LOCATIONS ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR \_\_\_\_\_ DATE \_\_\_\_\_

**CITY OF SCOTTSDALE**

REVIEWED AND RECOMMENDED APPROVAL BY:

PAVING	STRUCTURES
GRADING & DRAINAGE	BUILDING
WATER & SEWER	PLUMBING
TRAFFIC	MECHANICAL
PLANNING IMPROVEMENTS	ELECTRICAL
PLANNING FACILITIES	FIRE IMPROVEMENTS
LANDSCAPE	FIRE FACILITIES
NATIVE PLANT	

ENGINEERING COORDINATION MANAGER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

BUILDING OFFICIAL (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

Two working days before you dig  
**CALL FOR THE BLUE STAKES**  
**1-800-782-5348**  
 Blue Stake Center

ENGINEER  
**WOOD/PATEL**  
 MISSION: CLIENT SERVICE™  
 PHOENIX • MESA • TUCSON  
 2001 W. McDowell Ave.  
 Phoenix, AZ 85001  
 (602) 388-8600

### REATA WASH FLOOD CONTROL IMPROVEMENT STUDY PROJECT NO. 14SQ011 BID NO. XXXX



**15% DESIGN**  
 August 2016

**SHEET INDEX**

Sht. No.	Dwg. No.	Description
1	G1	COVER SHEET/VICINITY MAP
2	G2	GENERAL NOTES AND LEGEND
3	G3	KEY MAP SHEET
4-5	G4-G5	TYPICAL SECTIONS AND DETAILS
6	G6	GEOMETRIC SHEET
7-19	C1-C13	CHANNEL PLAN AND PROFILE SHEETS
20	L1	LANDSCAPING DETAILS

**EXHIBIT 5**  
**CONCEPT DESIGN PLANS (15%)**  
 PRELIMINARY NOT FOR  
 CONSTRUCTION OR RECORDING

**BENCH MARKS (COS NAVD '88)**

No.	Description
1	GENERAL LAND OFFICE BRASS CAP AT THE NORTHEAST CORNER OF SECTION 19, T. 4N., R. 5E, CITY OF SCOTTSDALE GPS POINT NO. 7192 ELEVATION= 1973.362 (C.O.S. NAVD '88)

Certificate of Approval to Construct Maricopa County Environmental Services Department  
 Water and Waste Management Division

MOESD # \_\_\_\_\_  
 Public Water System ID Number 0407- (and/or) Waste Water System ID Number 0437-  
 Project Description: \_\_\_\_\_

Project Location: \_\_\_\_\_  
 Project Owner: \_\_\_\_\_

Permitted to AAZ Title 18, Chapter 4, Article 2; or AAZ Title 18, Chapter 6, Article 2; and/or Maricopa County Environmental Health Code Chapter 8 or 9. This certificate of approval to construct the above described facilities as represented by the attached plan is valid upon review and signature by a Maricopa County Environmental Services Department representative given the following provisions:  
 1.) A Request for Certificate of Approval of Construction, together with an Engineer's Certificate of Completion, and needed engineering consultant fees, shall be submitted to this Department prior to approval of construction and startup.  
 2.) The Approval to Construct is void if major modifications occur to the plans without the knowledge and consent of the department.  
 If Construction has not started within one year of the approval date, this certificate will be void. An extension of time may be available upon written request.  
 Approved By: \_\_\_\_\_ Date Approved: \_\_\_\_\_

CC: MOESD FILE: ADEQ  
 Engineer: AZ. Corp. Commission

**REATA WASH FLOOD CONTROL IMPROVEMENT STUDY**  
**PROJECT NO. 14SQ011 BID NO. XXXX**  
 DR/STAFF APPROVAL NO. \_\_\_\_\_  
 PLAN REVIEW NO. \_\_\_\_\_

**GENERAL CONSTRUCTION NOTES FOR CAPITAL PROJECTS**

- ALL IMPROVEMENT CONSTRUCTION SHALL COMPLY WITH THE LATEST MARICOPA COUNTY ASSOCIATION OF GOVERNMENTS STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION AS AMENDED BY THE LATEST VERSION OF THE CITY OF SCOTTSDALE SUPPLEMENTAL STANDARD SPECIFICATIONS AND DETAILS AND CITY OF SCOTTSDALE'S DESIGN STANDARDS & POLICIES MANUAL (DS&PM). IF THERE IS A CONFLICT, THE LATTER SHALL APPLY. ALL FACILITIES CONSTRUCTION SHALL COMPLY WITH THE LATEST BUILDING CODES AS AMENDED AND ADOPTED BY THE CITY OF SCOTTSDALE.
- THE ENGINEERING DESIGNS ON THESE PLANS ARE APPROVED BY THE CITY IN SCOPE AND NOT IN DETAIL. IF CONSTRUCTION QUANTITIES ARE SHOWN ON THESE PLANS, THEY ARE NOT VERIFIED BY THE CITY.
- BASED ON THE INFORMATION SUBMITTED ON THE PLANS AND ASSOCIATED DOCUMENTS, THE CITY HAS REVIEWED AND FOUND THEM TO BE IN ACCORDANCE WITH THE CITY'S MUNICIPAL CODE AND ARE ACCEPTABLE FOR PERMIT ISSUANCE. THIS ACCEPTANCE BY THE CITY DOES NOT AUTHORIZE VIOLATIONS OF ANY APPLICABLE CODE, ORDINANCE OR STANDARD AS ADOPTED BY THE MUNICIPAL CODE.
- APPROVAL OF THE PLANS BY THE CITY IS VALID FOR SIX MONTHS. IF A PERMIT FOR THE CONSTRUCTION HAS NOT BEEN ISSUED WITHIN SIX MONTHS OF REVIEW, THE PLANS SHALL BE RESUBMITTED TO THE CITY FOR REAPPROVAL.
- ANY DEVIATION FROM THE APPROVED PLANS SHALL BE REVIEWED AND APPROVED BY THE CITY PRIOR TO THAT CHANGE BEING INCORPORATED INTO THE PROJECT.
- A CITY CAPITAL PROJECTS INSPECTOR WILL INSPECT ALL WORK WITHIN THE CITY RIGHTS-OF-WAY, EASEMENTS AND FACILITIES.
- ANY SPECIAL INSPECTION REQUIRED SHALL BE IN ADDITION TO ANY ROUTINE INSPECTION BY THE CITY.
- CITY ENCROACHMENT AND BUILDING PERMITS ARE REQUIRED FOR WORK IN PUBLIC RIGHTS-OF-WAY, EASEMENTS GRANTED FOR PUBLIC PURPOSES AND FACILITIES. PERMITS WILL BE ISSUED BY THE CITY THROUGH THE CITY'S ONE STOP SHOP. COPIES OF ALL PERMITS SHALL BE RETAINED ON-SITE AND SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE REQUIRED PERMITS WILL RESULT IN IMMEDIATE WORK STOPPAGE UNTIL THE PROPER PERMIT DOCUMENTATION IS OBTAINED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR SALVAGING PROTECTED NATIVE PLANTS PRIOR TO THE START OF CONSTRUCTION.
- WHEREVER EXCAVATION IS DONE CONTACT THE BLUE STAKE CENTER AT (602) 263-1100 TWO WORKING DAYS BEFORE EXCAVATION IS TO BEGIN. THE CENTER WILL SEE THAT THE LOCATION OF THE UNDERGROUND UTILITY LINES IS IDENTIFIED FOR THE PROJECT.
- ALL EXCAVATION AND GRADING WHICH IS NOT IN PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC PURPOSES MUST CONFORM TO SECTION 1803 AND APPENDIX J OF THE 2008 EDITION OF THE INTERNATIONAL BUILDING CODE PREPARED BY THE INTERNATIONAL CODE COUNCIL. A PERMIT FOR THIS GRADING MUST BE SECURED FROM THE CITY.
- THRUST RESTRAINT, WHERE REQUIRED, ON ALL CITY WATER LINES SHALL BE PROVIDED USING MEGALUG MECHANICAL JOINT RESTRAINTS OR CITY-APPROVED EQUAL.
- ANY ASPHALT MIX DESIGN USED ON CITY PROJECTS SHALL HAVE BEEN APPROVED FOR THAT USE PER SECTION 5-10 THE CITY'S DS&PM AND APPEAR ON THE "APPROVED LIST OF ASPHALT MIXES" AS DISTRIBUTED BY THE EAST VALLEY ASPHALT COMMITTEE (EVAC).
- THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND REPLACE, AT NO ADDITIONAL COST TO THE CITY, ANY AND ALL PAVEMENT, SIDEWALK, CURB AND GUTTER, DRAINAGE STRUCTURES, ETC. OUTSIDE THE PAY LIMIT THAT ARE DAMAGED DUE TO THEIR ACTIVITIES ON THE PROJECT. THIS INCLUDES, BUT IS NOT LIMITED TO, THE REMOVAL AND REPLACEMENT OF NEWLY CRACKED ROADWAY INFRASTRUCTURE, THE REMOVAL AND REPLACEMENT OF EXISTING CRACKED ROADWAY INFRASTRUCTURE WHERE THE CRACKS HAVE BEEN ENLARGED DUE TO THE CONTRACTOR'S OPERATIONS, THE REMOVAL AND REPLACEMENT OF DEFORMED ROADWAY INFRASTRUCTURE. ALL SAWCUTS USED FOR THE REMOVAL OF THESE ITEMS SHALL BE PERPENDICULAR AND PARALLEL TO THE CENTERLINE CONTROLLING THAT ITEM, OR AT THE DIRECTION OF THE CITY'S CAPITAL PROJECTS INSPECTOR.
- ALL CAPITAL IMPROVEMENT PROJECTS SHALL MEET THE PROCEDURES AND STANDARDS FOR THE USE OF TEMPORARY/SECURITY FENCING AROUND THE PERIMETER OF CONSTRUCTION SITES, AS DEFINED IN THE CITY'S ZONING ORDINANCE, ARTICLE VI, SECTION 7.700.

**ABBREVIATIONS**

CL	CENTERLINE
COS	CITY OF SCOTTSDALE
CST	CONSTRUCTION
CMP	CORRUGATED METAL PIPE
DTL	DETAIL
DE	DRAINAGE EASEMENT
DIP	DUCTILE IRON PIPE
E	EASTING
ELEV	ELEVATION
ESMT	EASEMENT
EXIST	EXISTING
EXFL	EXISTING FLOWLINE
GB	GRADE BREAK
H	HEIGHT
HOA	HOME OWNERS ASSOCIATION
IE	INVERT ELEVATION
LT	LEFT
MAG	MARICOPA ASSOCIATION OF GOVERNMENTS
MAX	MAXIMUM
MIN	MINIMUM
N	NORTHING
OHE	OVERHEAD ELECTRIC
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORINE
PL	PROPERTY LINE
Q100	100 YEAR PEAK DISCHARGE
RCBC	REINFORCED CONCRETE BOX CULVERT
RT	RIGHT
S	SLOPE
SD	STORM DRAIN
SHT	SHEET
SS	SANITARY SEWER LINE
STA	STATION
STD	STANDARD
TYP	TYPICAL
W	WATER LINE
WSEL	WATER SURFACE ELEVATION

**LEGEND**

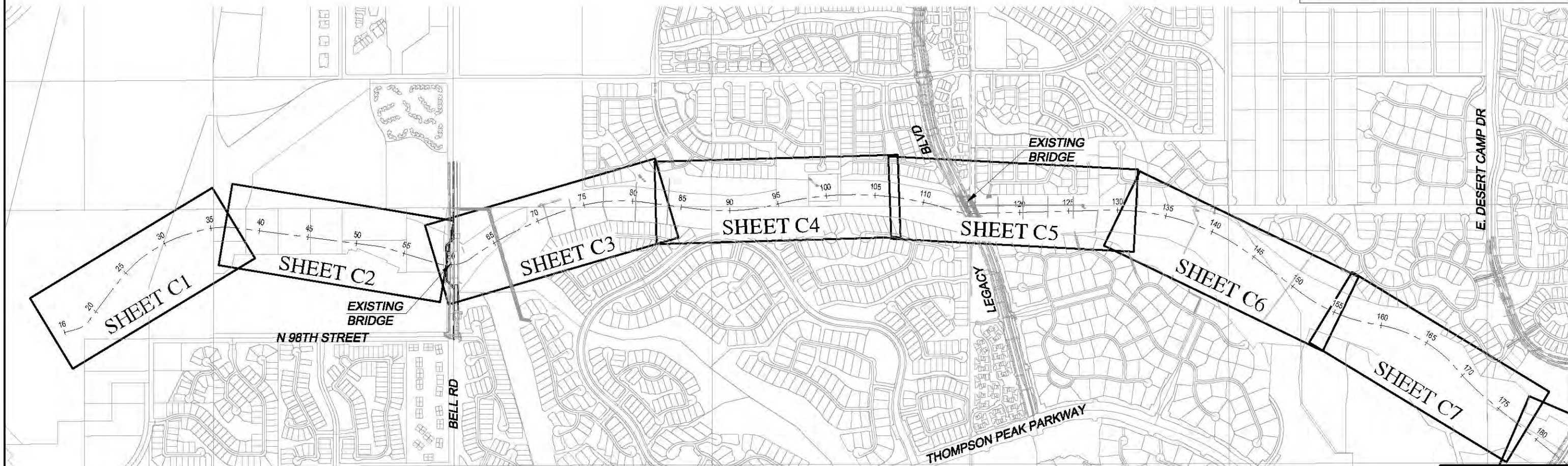
	EXISTING SEWER
	EXISTING STORM DRAIN
	EXISTING WATER
	EXISTING UNDERGROUND ELECTRIC
	EXISTING GAS LINE
	EXISTING UNDERGROUND TELEPHONE CABLE
	EXISTING OVERHEAD ELECTRIC
	EXISTING GROUND ELEVATION
	EXISTING TRANSMISSION TOWER
	EXISTING UTILITY POLE
	EXISTING WIRE FENCE
	VW - WATER VALVE
	EXISTING OR NEW R/W LINE
	EXISTING PARCEL LINE
	EXISTING OR NEW EASEMENT
	PROPERTY LINE
	PROPOSED CONTOURS
	WATER SURFACE ELEVATION
	PROJECT CONTROL LINE & CHANNEL STATIONING
	PROPOSED WATER
	PROPOSED SEWER

**EXHIBIT 5  
CONCEPT DESIGN PLANS (15%)**

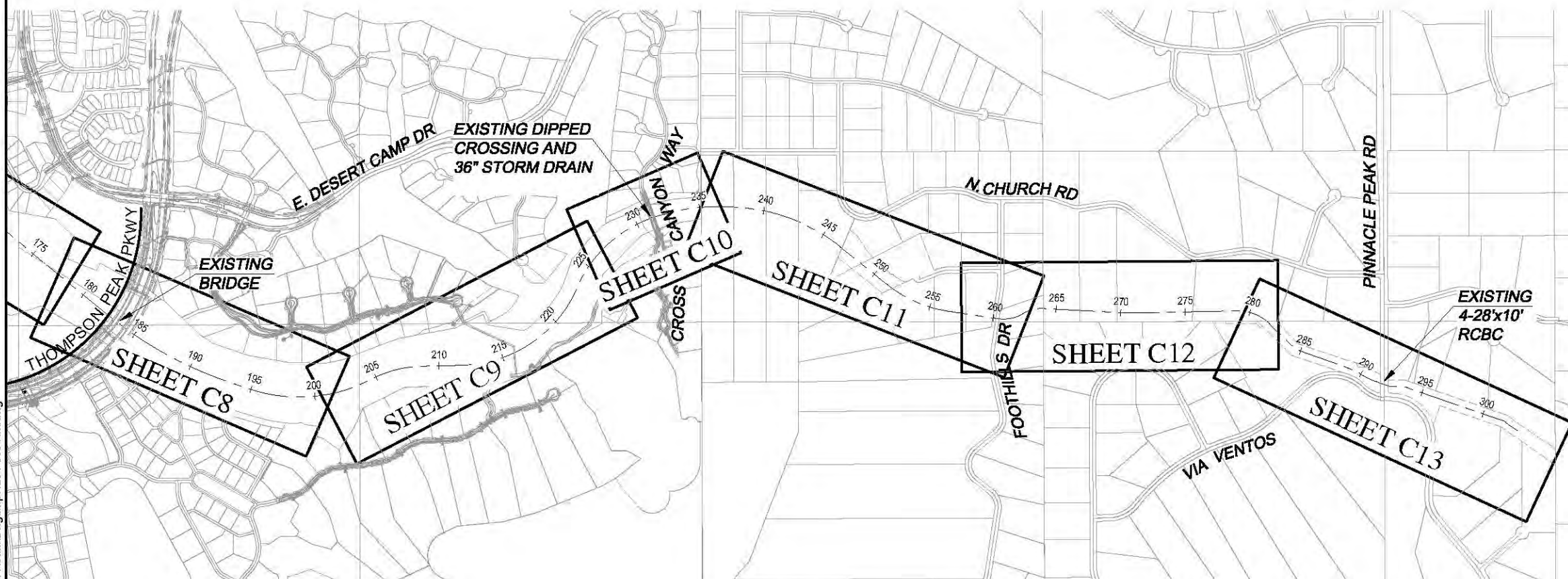
**PRELIMINARY NOT FOR  
CONSTRUCTION OR RECORDING**



DATE	REVISION	BY
ENGINEER	<b>15% PRELIMINARY NOT FOR CONSTRUCTION</b>	
		<b>PUBLIC WORKS CAPITAL PROJECT MANAGEMENT</b>
		7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 86223
SHEET TITLE <b>GENERAL NOTES AND LEGEND</b>		
PROJECT TITLE <b>REATA WASH FLOOD CONTROL IMPROVEMENT STUDY</b>		
SCALE	DESIGNED	DATE
HORIZ. N/A	DRAWN	August 2016
VERT. N/A	PROJECT NO.	14SQ011
SHEET NO. G2		2 OF 19

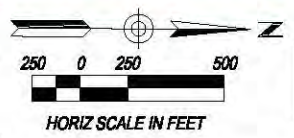


SEE BELOW FOR CONTINUATION



**EXHIBIT 5  
 CONCEPT DESIGN PLANS (15%)**

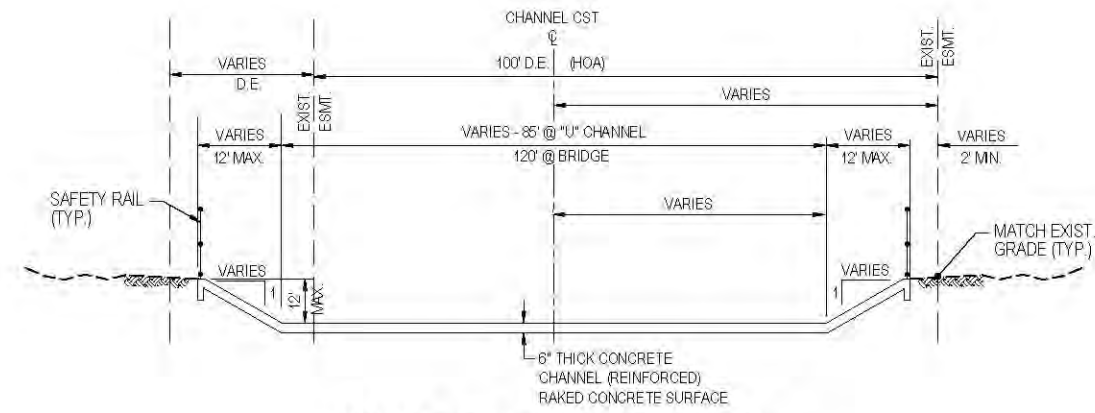
**PRELIMINARY NOT FOR  
 CONSTRUCTION OR RECORDING**



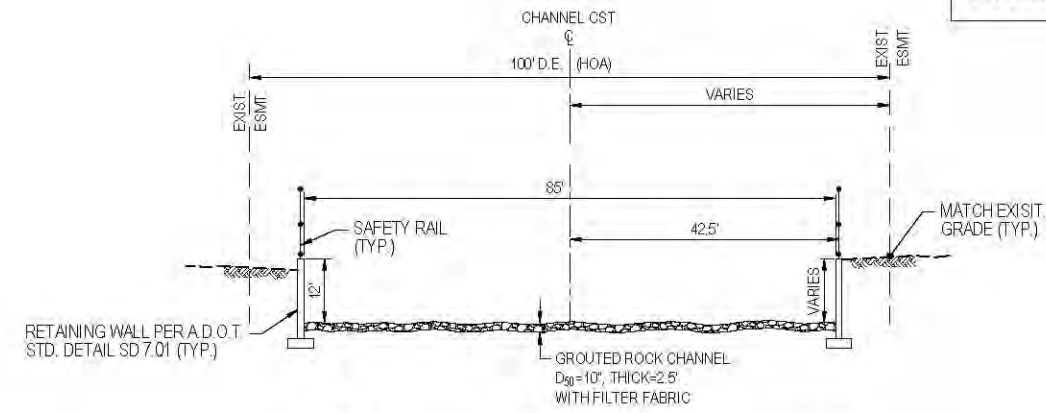
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ENGINEER	<b>15%                  PRELIMINARY                  NOT FOR                  CONSTRUCTION</b>	
		<b>PUBLIC WORKS                  CAPITAL PROJECT                  MANAGEMENT</b> 7417 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
<b>KEY MAP SHEET</b>		
<b>REATA WASH                  FLOOD CONTROL IMPROVEMENT STUDY</b>		
SCALE	DESIGNED	DATE
HORIZ. 1" = 500'	AS-BUILT	August 2016
VERT. N/A	DRAWN	PROJECT NO.
	XX/XX	14SQ011
		BHT. G3
		3 OF 19

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XX-XX

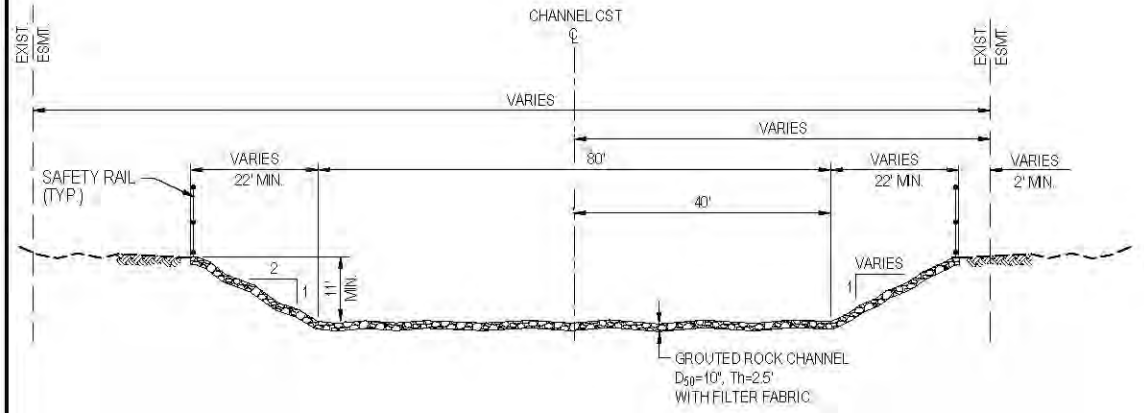


**CONCRETE CHANNEL TRANSITION  
 STA 292+10 TO STA 293+00  
 (NOT TO SCALE)**

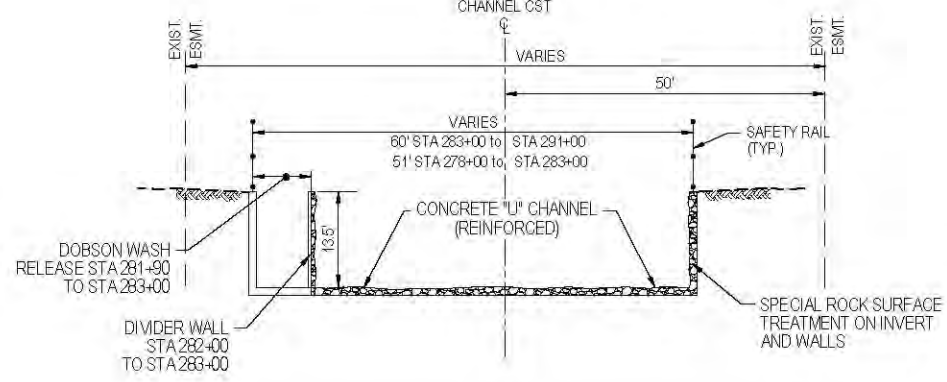


**"U" CHANNEL CONCRETE WALL & GROUTED  
 ROCK INVERT  
 STA 293+00 TO STA 299+00  
 (NOT TO SCALE)**

**REATA WASH – REACH 1  
 TYPICAL SECTIONS**

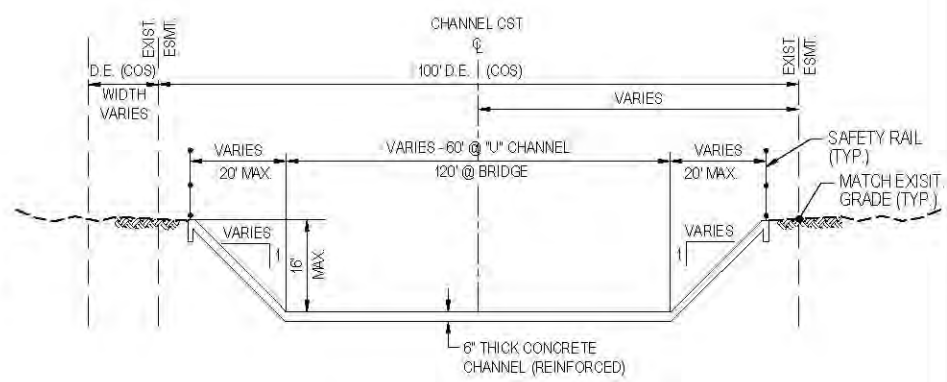


**GROUTED ROCK CHANNEL  
 STA 231+00 TO STA 278+00  
 (NOT TO SCALE)**



**CONCRETE "U" CHANNEL  
 STA 278+00 TO STA 291+00  
 (NOT TO SCALE)**

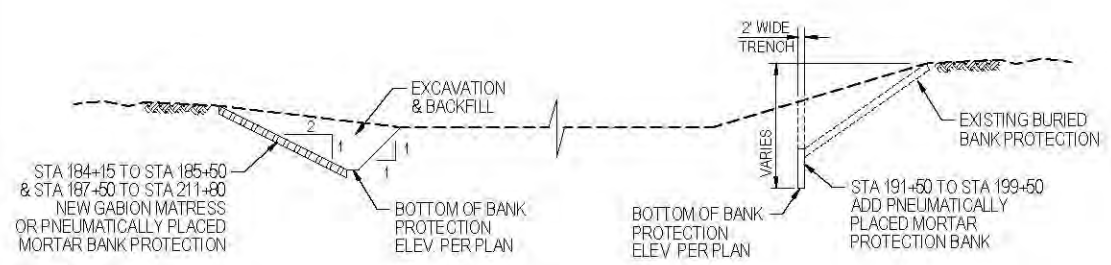
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 TYPICAL SECTIONS**



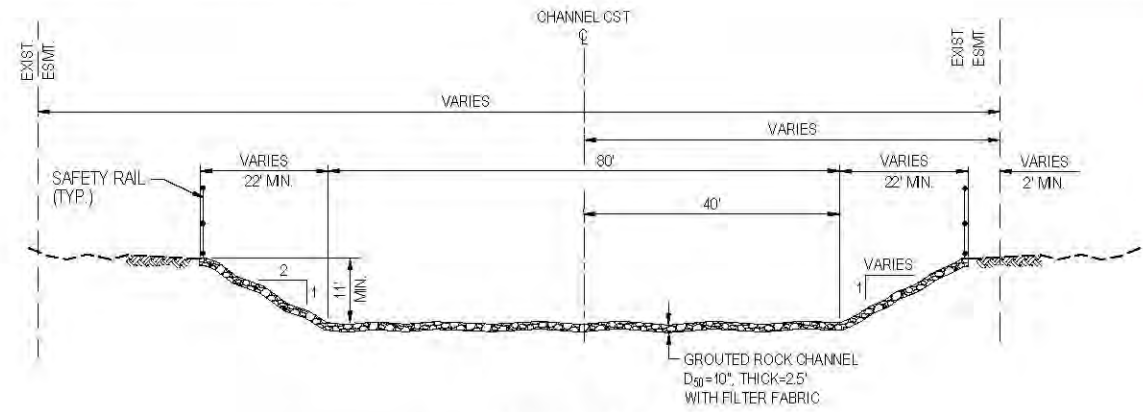
**CONCRETE CHANNEL TRANSITION  
 STA 291+00 TO STA 291+65  
 (NOT TO SCALE)**

**EXHIBIT 5  
 CONCEPT DESIGN PLANS (15%)**

**PRELIMINARY NOT FOR  
 CONSTRUCTION OR RECORDING**



**NATURAL CHANNEL WITH  
 BURIED BANK PROTECTION  
 STA 184+15 TO STA 211+80  
 (NOT TO SCALE)**



**GROUTED ROCK CHANNEL  
 STA 213+00 TO STA 231+00  
 (NOT TO SCALE)**

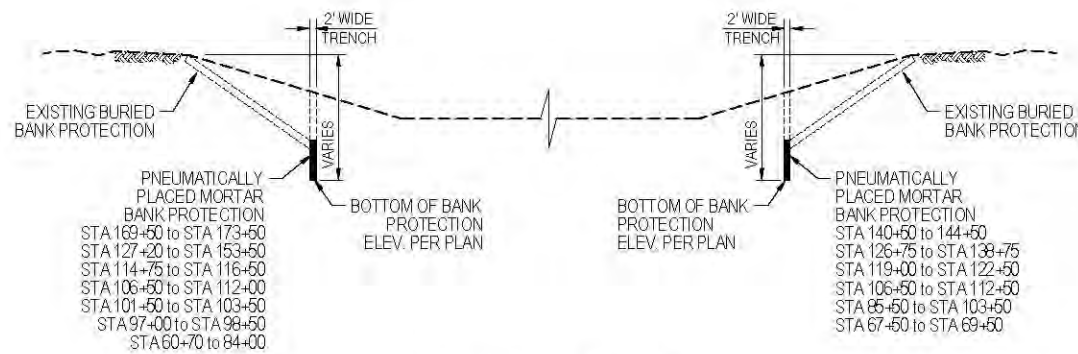
**REATA WASH – REACH 3  
 TYPICAL SECTIONS**



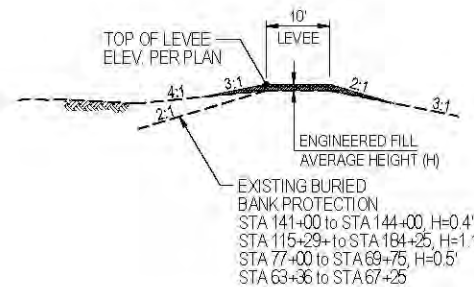
DATE	REVISION	BY
ENGINEER	<b>15% PRELIMINARY NOT FOR CONSTRUCTION</b>	
<b>PUBLIC WORKS                  CAPITAL PROJECT                  MANAGEMENT</b> 747 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE: <b>TYPICAL SECTIONS AND DETAILS</b>		
PROJECT TITLE: <b>REATA WASH                  FLOOD CONTROL IMPROVEMENT STUDY</b>		
SCALE	DESIGNED	DATE
HORIZ: N/A	DRAWN	August 2016
VERT: N/A	AS-BUILT	XX/XX
PROJECT NO. 14SQ011		SIT. G4
4 of 19		

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XXX-XX

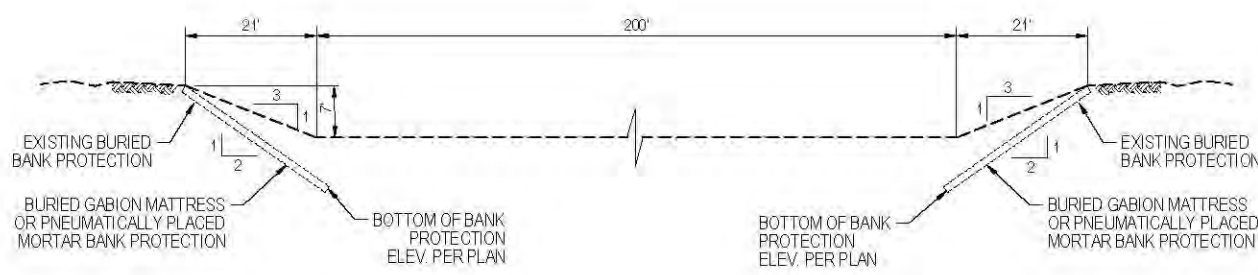


**NATURAL CHANNEL WITH BURIED BANK PROTECTION  
 STA 60+70 TO STA 184+15**



**NATURAL CHANNEL LEVEE/ EMBANKMENT IMPROVEMENTS (WESTBANK)  
 STA 63+36 TO STA 144+00**

**REATA WASH – REACH 4  
 TYPICAL SECTIONS**




**EARTHEN TRAPEZOIDIAL CHANNEL WITH BURIED PROTECTION  
 STA 23+00 TO STA 60+00**

**REATA WASH – REACH 5  
 TYPICAL SECTIONS**

**EXHIBIT 5  
 CONCEPT DESIGN PLANS (15%)**

**PRELIMINARY NOT FOR  
 CONSTRUCTION OR RECORDING**

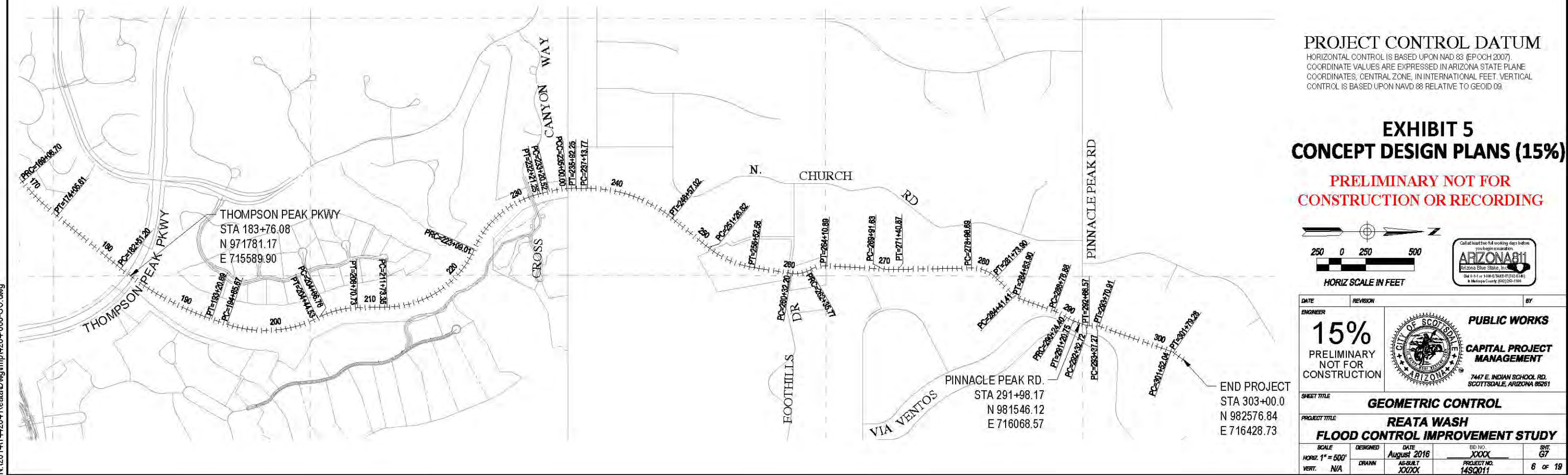
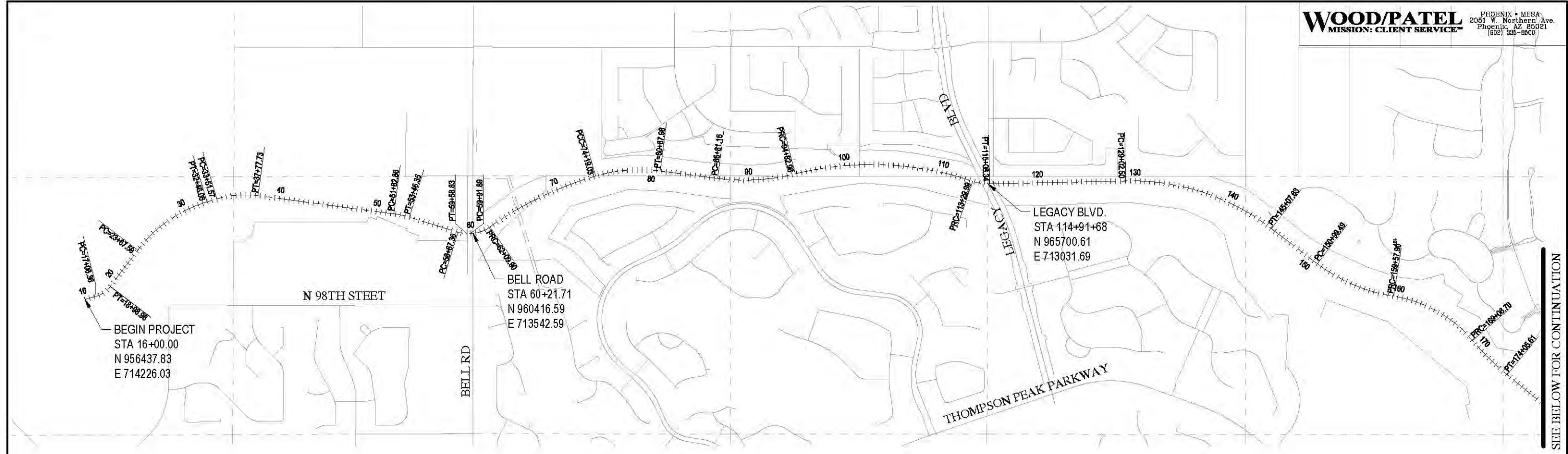


DATE	REVISION	BY
ENGINEER		
<b>15% PRELIMINARY NOT FOR CONSTRUCTION</b>		 <b>PUBLIC WORKS                  CAPITAL PROJECT                  MANAGEMENT</b> 747 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85261
SHEET TITLE <b>TYPICAL SECTIONS AND DETAILS</b>		
PROJECT TITLE <b>REATA WASH                  FLOOD CONTROL IMPROVEMENT STUDY</b>		
SCALE	DESIGNED	DATE
HORIZ: N/A	DRAWN	August 2016
VERT: N/A	AS-BUILT	XXXX
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	SHEET NO.	G5
		5 of 19

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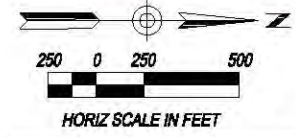
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**PROJECT CONTROL DATUM**  
 HORIZONTAL CONTROL IS BASED UPON NAD 83 (EPOCH 2007).  
 COORDINATE VALUES ARE EXPRESSED IN ARIZONA STATE PLANE  
 COORDINATES, CENTRAL ZONE, IN INTERNATIONAL FEET. VERTICAL  
 CONTROL IS BASED UPON NAVD 88 RELATIVE TO GEOID 09.

**EXHIBIT 5**  
**CONCEPT DESIGN PLANS (15%)**  
 PRELIMINARY NOT FOR  
 CONSTRUCTION OR RECORDING

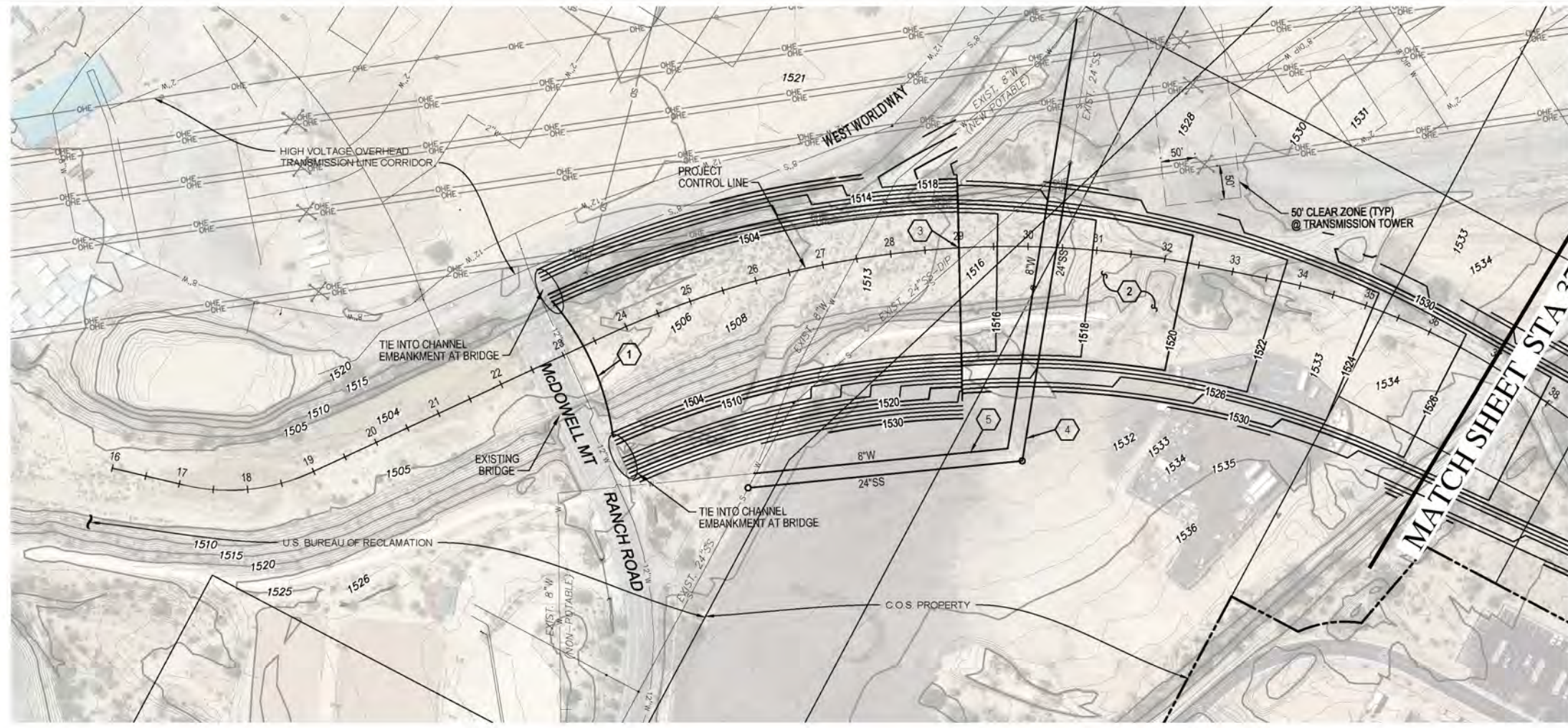
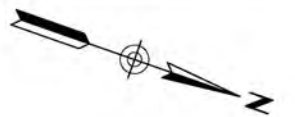


DATE	REVISION	BY
ENGINEER		
<b>15%</b>		
PRELIMINARY NOT FOR CONSTRUCTION		
		<b>PUBLIC WORKS</b> <b>CAPITAL PROJECT MANAGEMENT</b> 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85261
SHEET TITLE		
<b>GEOMETRIC CONTROL</b>		
PROJECT TITLE		
<b>REATA WASH FLOOD CONTROL IMPROVEMENT STUDY</b>		
SCALE	DESIGNED	DATE
HORIZ. 1" = 500'	DRAIN	August 2016
VERT. N/A		
BD NO.	AS-BUILT	PROJECT NO.
XXXX	XX/XX	14SQ011
SHT.	OF	
G7	19	

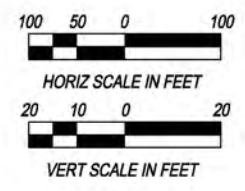
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SEE BELOW FOR CONTINUATION

XX-XX

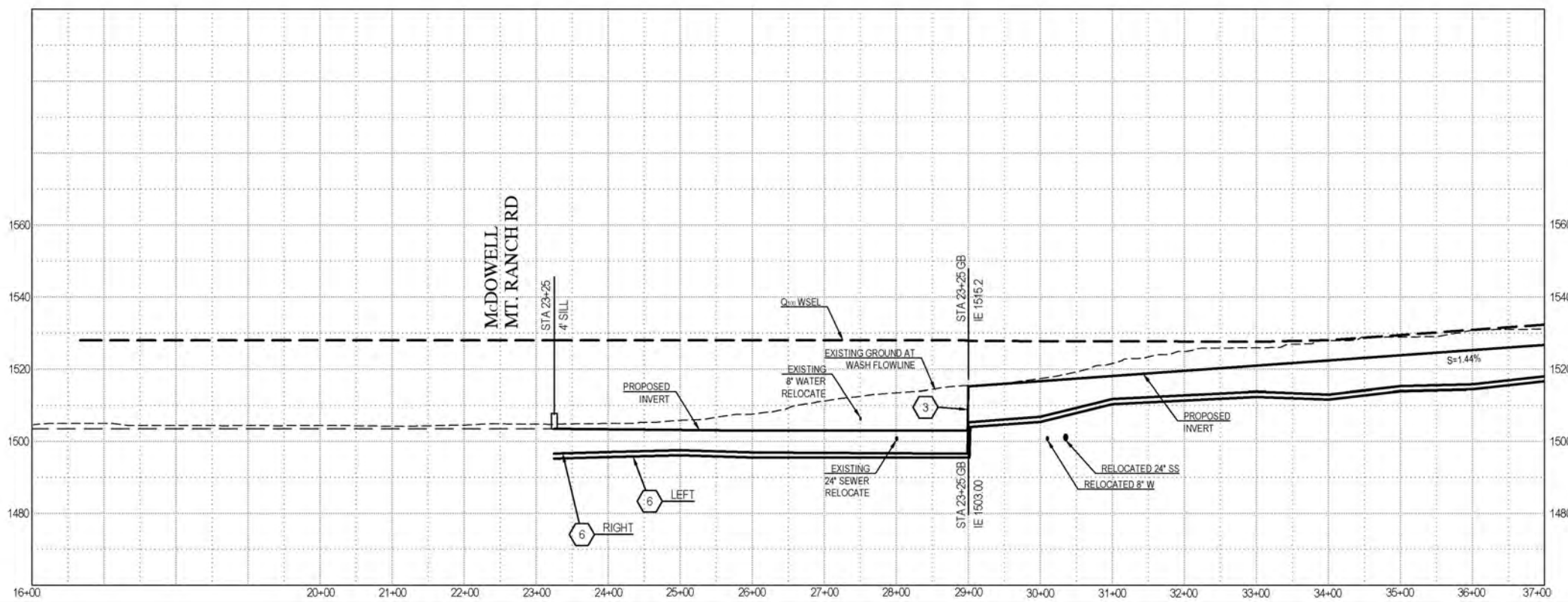


- GRADING NOTES**
- ① PROPOSED CONCRETE SEDIMENT BASIN SILL PARAPET WALL (4' HIGH)
  - ② PROPOSED INCISED EARTHEN TRAPEZOIDAL CHANNEL WITH BURIED BANK PROTECTION. SEE TYPICAL SECTION FOR DETAILS.
  - ③ PROPOSED CONCRETE DROP STRUCTURE.
  - ④ PROPOSED ENCASED SEWERLINE RELOCATION.
  - ⑤ PROPOSED ENCASED WATER LINE RELOCATION.
  - ⑥ SCOUR DEPTH AND BOTTOM OF PROPOSED BANK PROTECTION.



**EXHIBIT 5  
CONCEPT DESIGN PLANS (15%)**

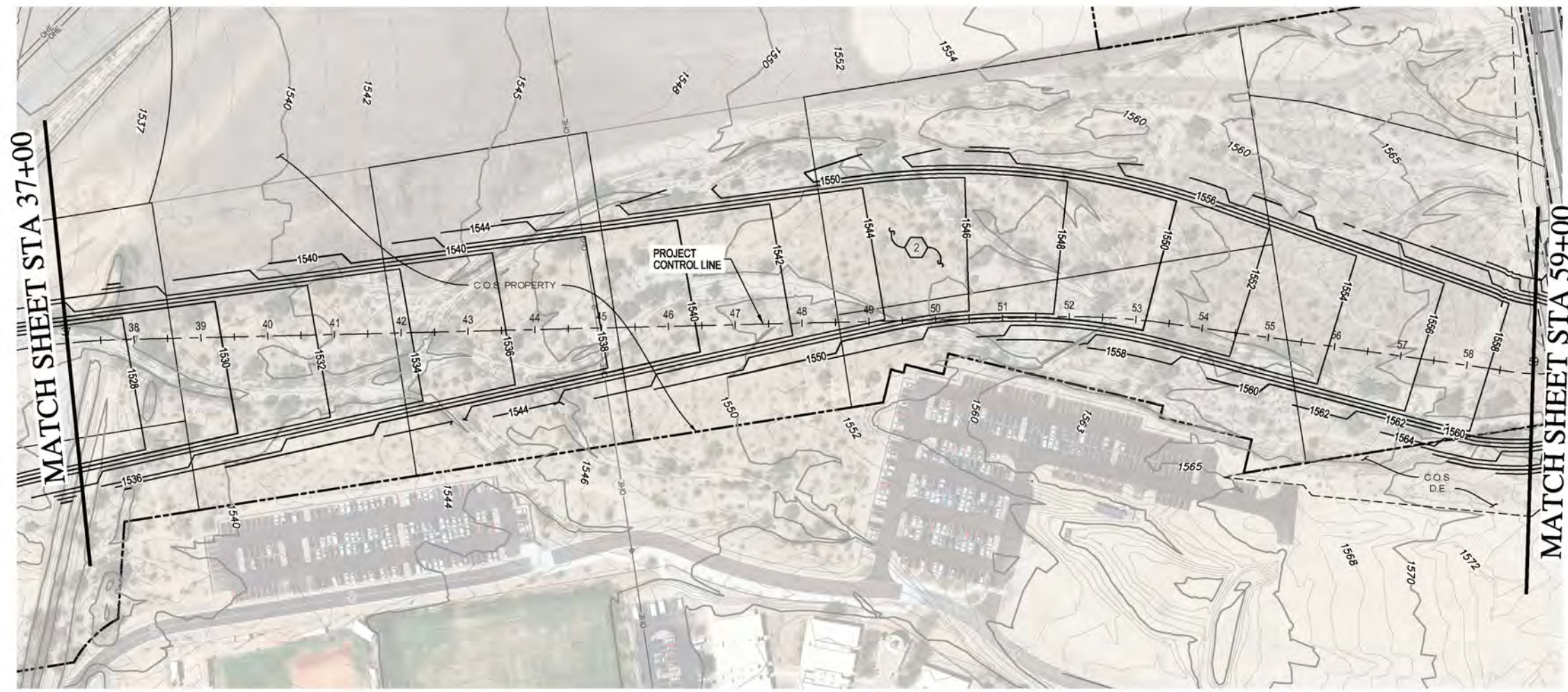
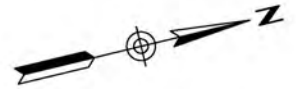
**PRELIMINARY NOT FOR  
CONSTRUCTION OR RECORDING**



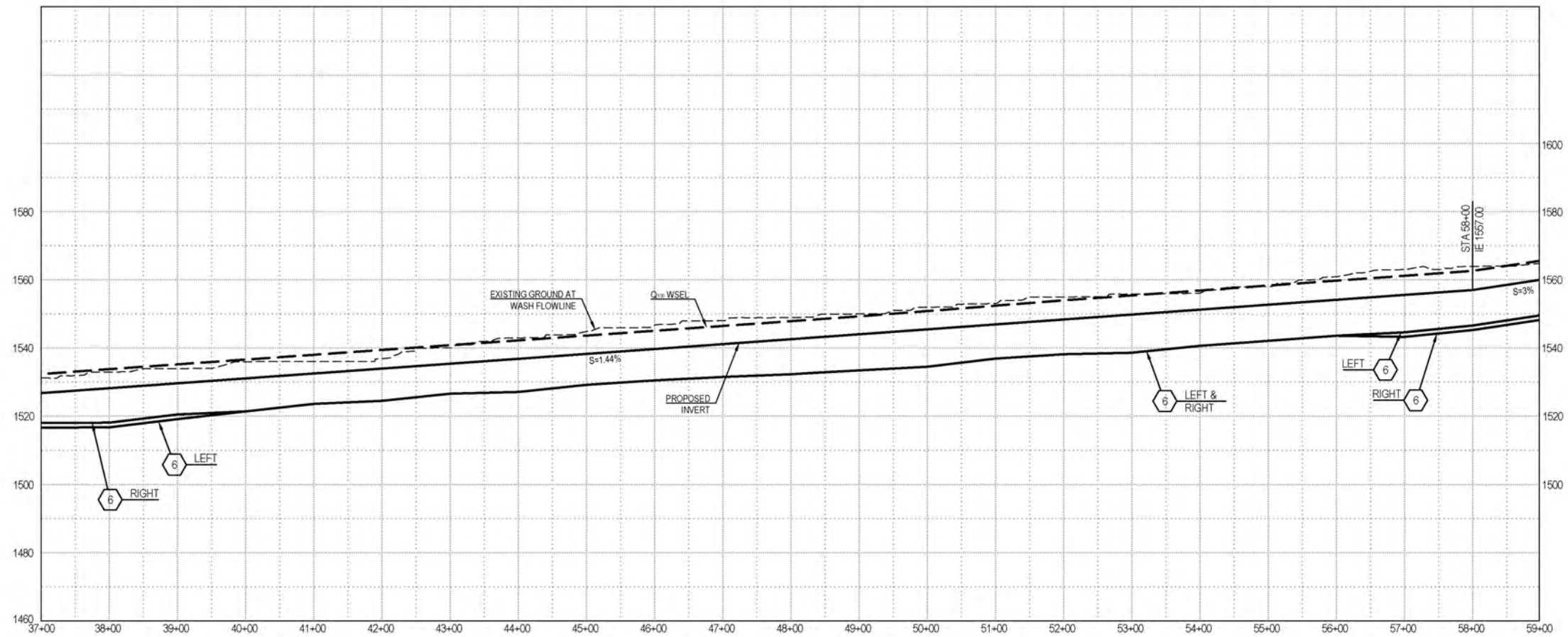
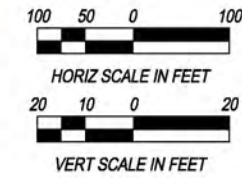
DATE	REVISION	BY
ENGINEER		
<b>15%</b>		<b>PUBLIC WORKS</b> <b>CAPITAL PROJECT MANAGEMENT</b> <small>7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251</small>
PRELIMINARY NOT FOR CONSTRUCTION		
SHEET TITLE		
<b>CHANNEL PLAN &amp; PROFILE SHEET</b>		
PROJECT TITLE		
<b>REATA WASH FLOOD CONTROL IMPROVEMENT STUDY</b>		
SCALE	DESIGNED	DATE
HORIZ 1" = 100'	AS-BUILT	August 2016
VERT. 1" = 20'	DRAWN	XX/XX
PROJECT NO.		SHT.
14SQ011		C1
7 OF 19		

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XXX-XX



- GRADING NOTES**
- ② PROPOSED INCISED EARTHEN TRAPEZOIDAL CHANNEL WITH BURIED BANK PROTECTION. SEE TYPICAL SECTION FOR DETAILS.
  - ⑥ SCOUR DEPTH AND BOTTOM OF PROPOSED BANK PROTECTION

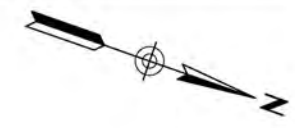


**EXHIBIT 5  
 CONCEPT DESIGN PLANS (15%)**

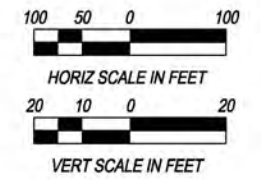
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 CONSTRUCTION OR RECORDING**



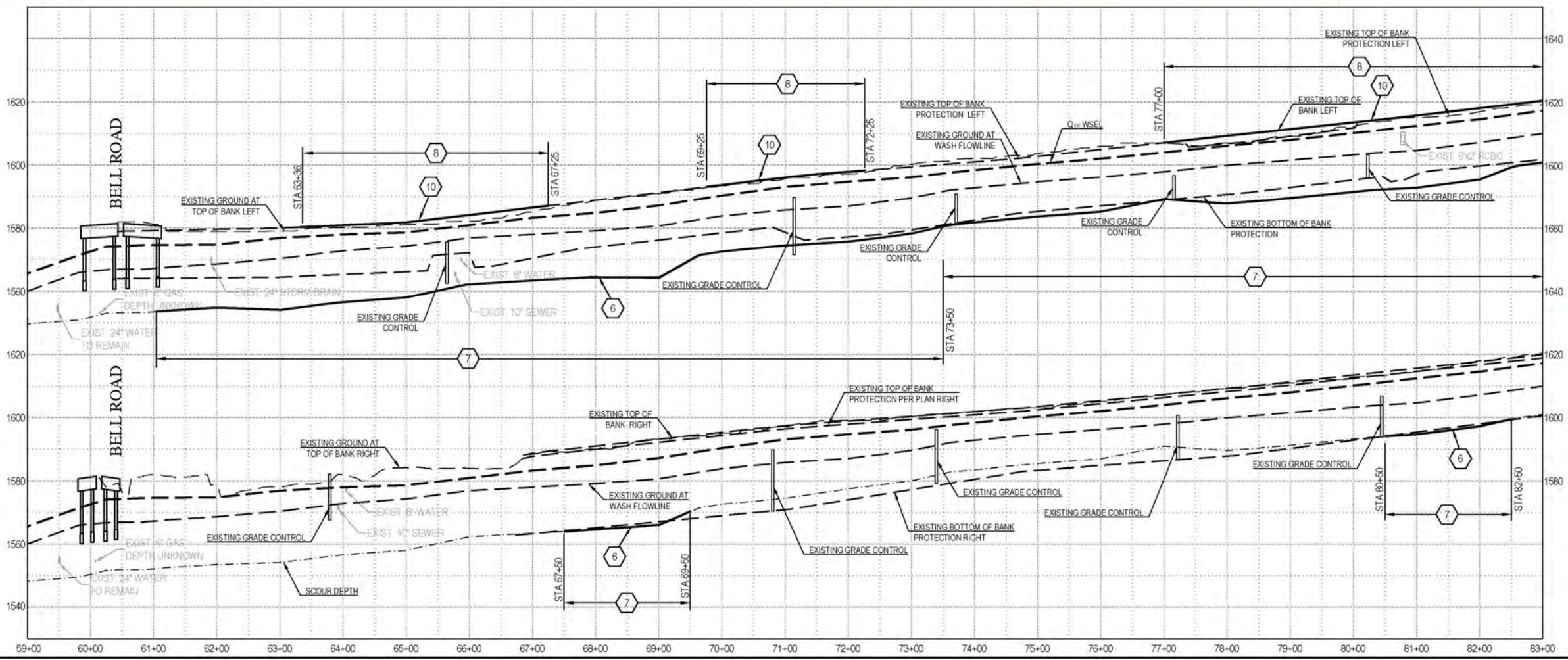
DATE	REVISION	BY
<b>ENGINEER</b> <b>15%</b> PRELIMINARY NOT FOR CONSTRUCTION		
<b>PUBLIC WORKS</b> <b>CAPITAL PROJECT                  MANAGEMENT</b> 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
<b>SHEET TITLE</b> <b>CHANNEL PLAN &amp; PROFILE SHEET</b>		
<b>PROJECT TITLE</b> <b>REATA WASH                  FLOOD CONTROL IMPROVEMENT STUDY</b>		
SCALE	DESIGNED	DATE
HORIZ 1" = 100'	AS-BUILT	August 2016
VERT. 1" = 20'	DRAWN	XX/XX
BIO NO. XXXX PROJECT NO. 14SQ011		SHT. C2 8 OF 19



- GRADING NOTES**
- ② PROPOSED INCISED EARTHEN TRAPEZOIDAL CHANNEL WITH BURIED BANK PROTECTION. SEE TYPICAL SECTION FOR DETAILS.
  - ⑤ PROPOSED ENCASED WATER LINE RELOCATION.
  - ⑥ SCOUR DEPTH AND BOTTOM OF PROPOSED BANK PROTECTION.
  - ⑦ PROPOSED BURIED BANK PROTECTION IMPROVEMENTS. SEE TYPICAL SECTION SHEET FOR DETAILS.
  - ⑧ PROPOSED LEVEE IMPROVEMENTS. SEE TYPICAL SECTION SHEET FOR DETAILS.
  - ⑨ PROPOSED LOCAL CHANNEL GRADING.
  - ⑩ PROPOSED TOP OF LEVEE / EMBANKMENT.



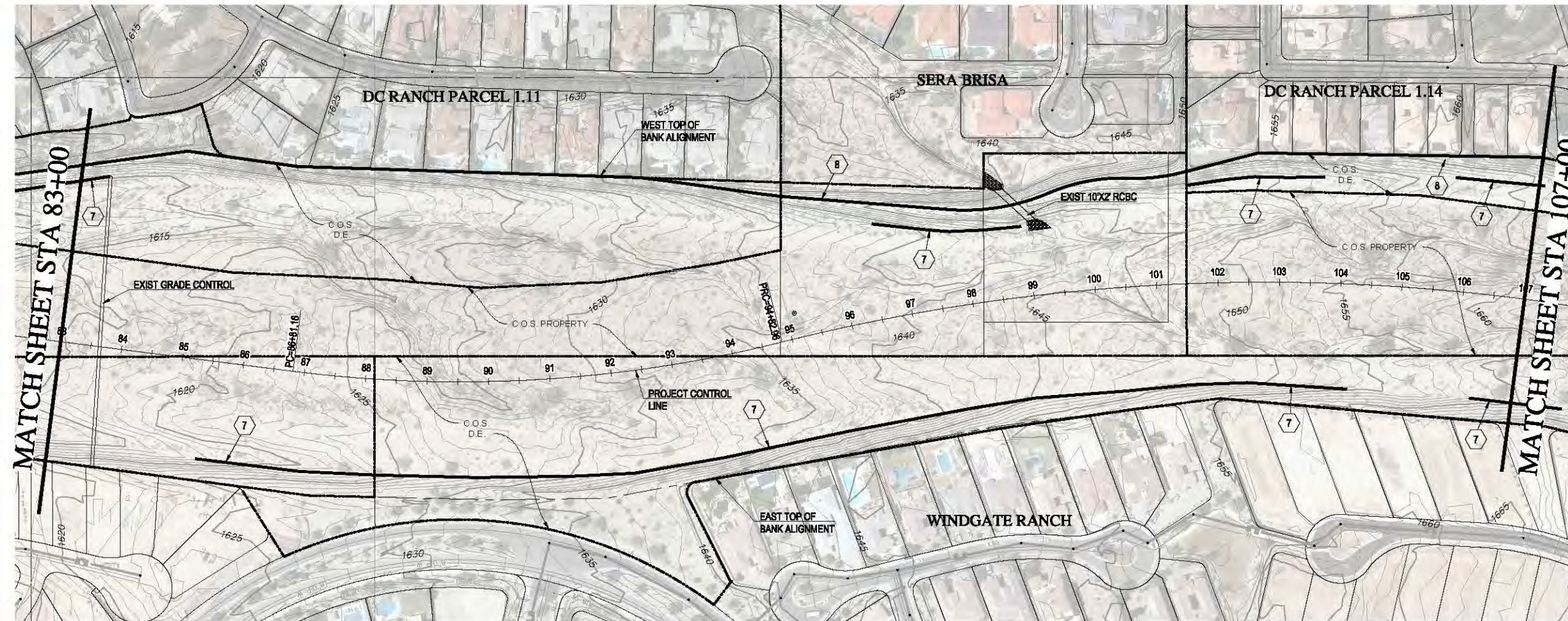
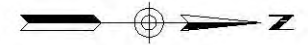
**EXHIBIT 5**  
**CONCEPT DESIGN PLANS (15%)**  
**PRELIMINARY NOT FOR**  
**CONSTRUCTION OR RECORDING**



DATE	REVISION	BY
<p>ENGINEER  <b>15%</b>                  PRELIMINARY                  NOT FOR                  CONSTRUCTION</p>		
<p><b>CITY OF SCOTTSDALE</b>                  PUBLIC WORKS                  CAPITAL PROJECT                  MANAGEMENT                  7447 E. INDIAN SCHOOL RD.                  SCOTTSDALE, ARIZONA 85251</p>		
<p>SHEET TITLE  <b>CHANNEL PLAN &amp; PROFILE SHEET</b></p>		
<p>PROJECT TITLE  <b>REATA WASH                  FLOOD CONTROL IMPROVEMENT STUDY</b></p>		
SCALE	DESIGNED	DATE
HORIZ 1" = 100'	DRAWN	August 2016
VERT. 1" = 20'	AS-BUILT	XXXX
	PROJECT NO.	14SQ011
	SHT.	C3
	9 OF 19	

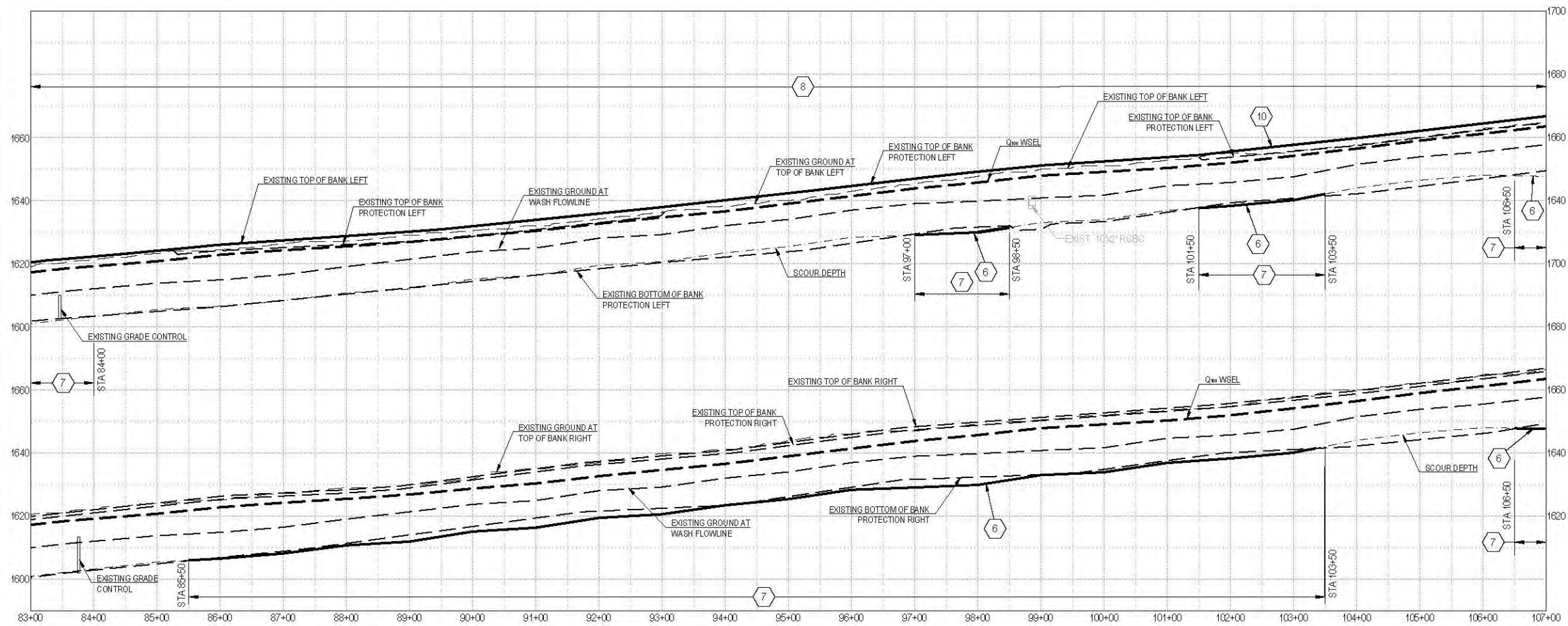
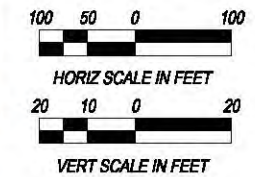
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XXX-XX



**GRADING NOTES**


- ⑥ SCOUR DEPTH AND BOTTOM OF PROPOSED BANK PROTECTION.
- ⑦ PROPOSED BURIED BANK PROTECTION IMPROVEMENTS. SEE TYPICAL SECTION SHEET FOR DETAILS.
- ⑧ PROPOSED LEVEE IMPROVEMENTS. SEE TYPICAL SECTION SHEET FOR DETAILS.
- ⑩ PROPOSED TOP OF LEVEE / EMBANKMENT.



**EXHIBIT 5  
 CONCEPT DESIGN PLANS (15%)**

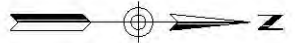
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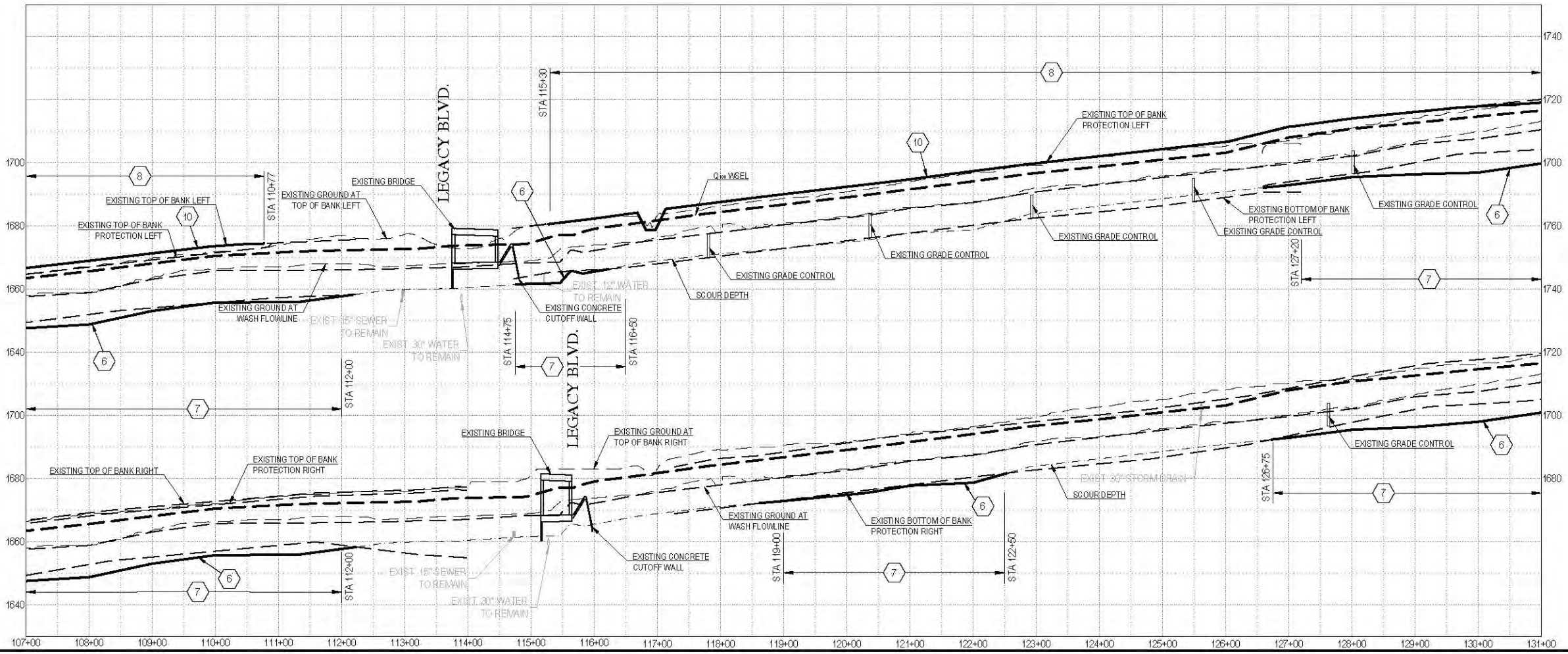
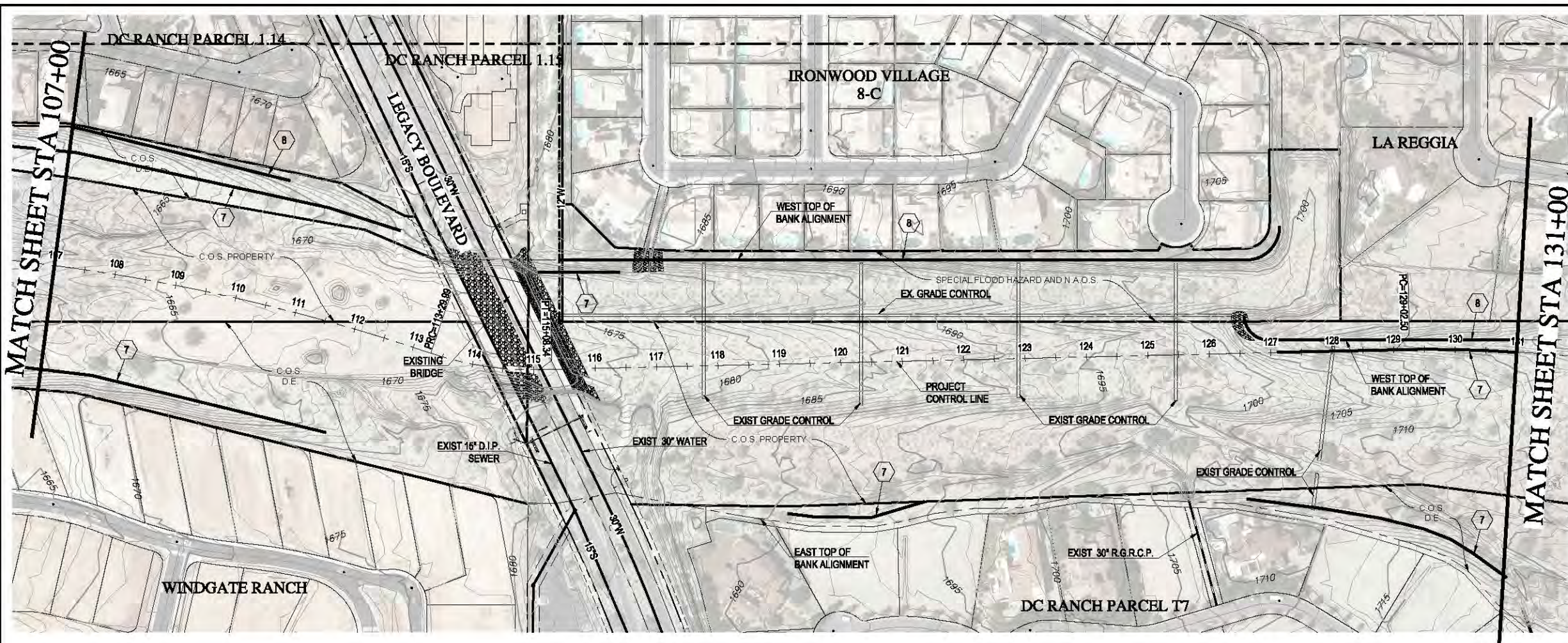
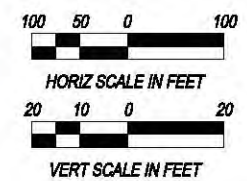
DATE	REVISION	BY
ENGINEER		
<b>15%</b>		
PRELIMINARY NOT FOR CONSTRUCTION		
 <b>PUBLIC WORKS</b> <b>CAPITAL PROJECT                  MANAGEMENT</b>		747 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
SHEET TITLE: <b>CHANNEL PLAN &amp; PROFILE SHEET</b>		
PROJECT TITLE: <b>REATA WASH                  FLOOD CONTROL IMPROVEMENT STUDY</b>		
SCALE	DESIGNED	DATE
HORIZ. 1" = 80'	AS-BUILT	August 2016
VERT. 1" = 20'	DRAWN	XX/XX
		PROJECT NO. 14SQ011
		SHT. C4
		10 OF 19

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XXX-XX




- GRADING NOTES**
- ⑥ SCOUR DEPTH AND BOTTOM OF PROPOSED BANK PROTECTION
  - ⑦ PROPOSED BURIED BANK PROTECTION IMPROVEMENTS. SEE TYPICAL SECTION SHEET FOR DETAILS.
  - ⑧ PROPOSED LEVEE IMPROVEMENTS. SEE TYPICAL SECTION SHEET FOR DETAILS.
  - ⑩ PROPOSED TOP OF LEVEE / EMBANKMENT.



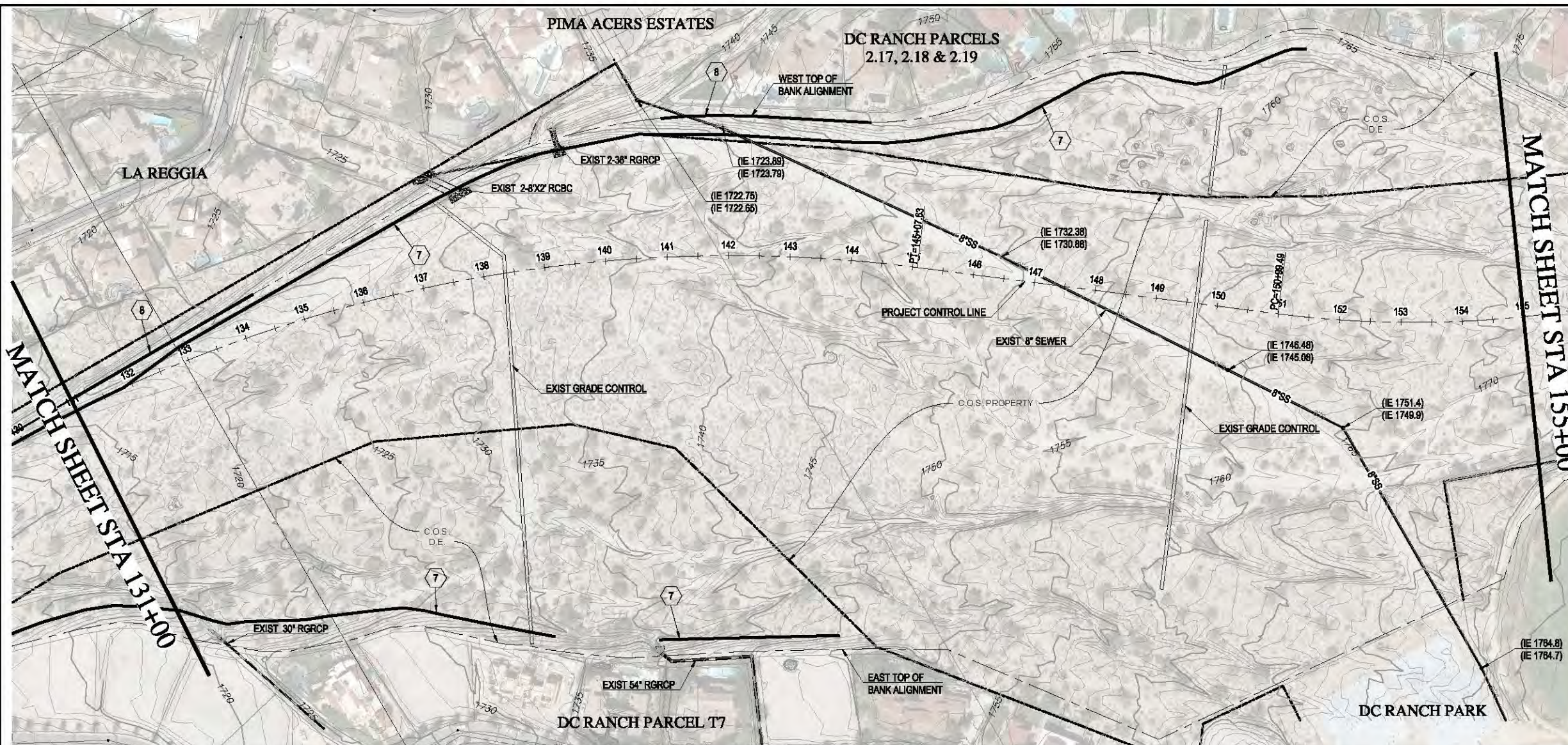
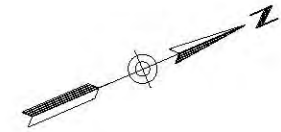
**EXHIBIT 5**  
**CONCEPT DESIGN PLANS (15%)**  
**PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING**



DATE	REVISION	BY
ENGINEER		
<b>15%</b>		
PRELIMINARY NOT FOR CONSTRUCTION		
 <b>PUBLIC WORKS</b> <b>CAPITAL PROJECT MANAGEMENT</b> 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE: <b>CHANNEL PLAN &amp; PROFILE SHEET</b>		
PROJECT TITLE: <b>REATA WASH FLOOD CONTROL IMPROVEMENT STUDY</b>		
SCALE	DESIGNED	DATE
HORIZ. 1" = 100'	AS-BUILT	August 2016
VERT. 1" = 20'	DRAWN	XX/XX
PROJECT NO. 14SQ011		SHT. 11 OF 19

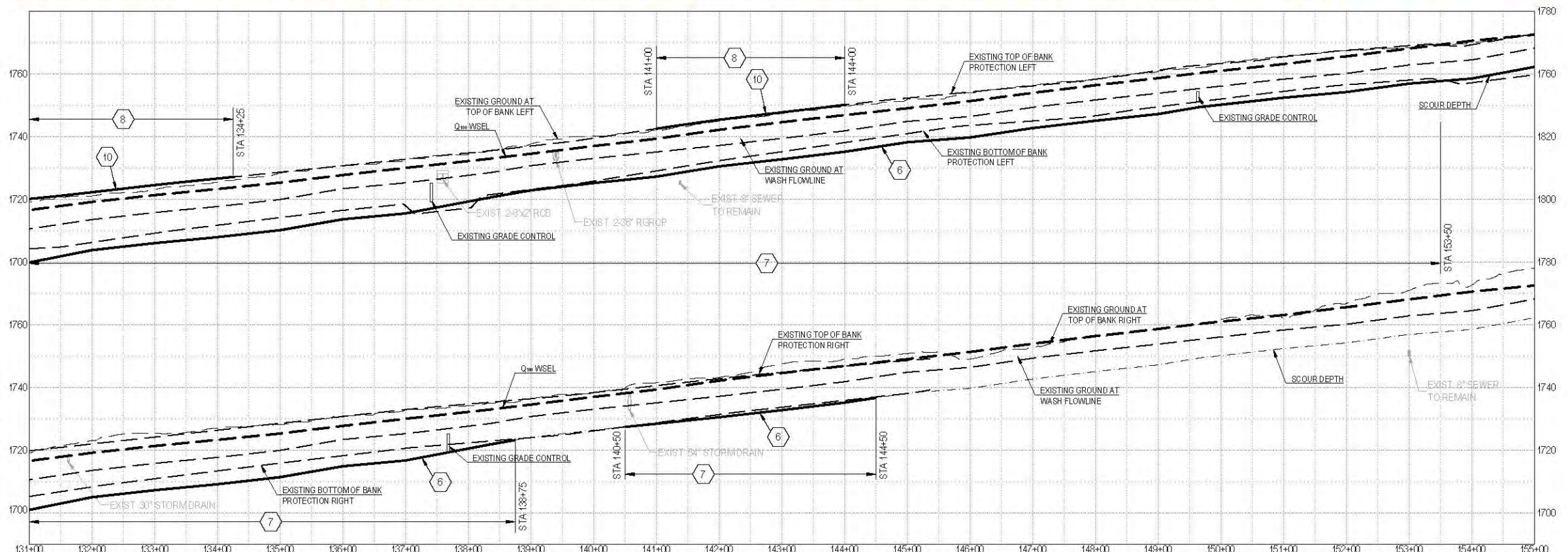
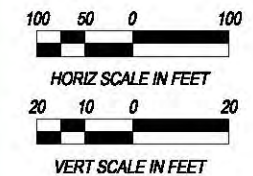
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XXX-XX



**GRADING NOTES**

- 6 SCOUR DEPTH AND BOTTOM OF PROPOSED BANK PROTECTION.
- 7 PROPOSED BURIED BANK PROTECTION IMPROVEMENTS. SEE TYPICAL SECTION SHEET FOR DETAILS.
- 8 PROPOSED LEVEE IMPROVEMENTS. SEE TYPICAL SECTION SHEET FOR DETAILS.
- 10 PROPOSED TOP OF LEVEE / EMBANKMENT.



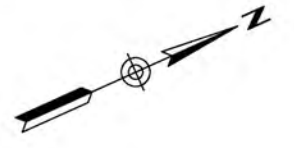
**EXHIBIT 5  
CONCEPT DESIGN PLANS (15%)**

**PRELIMINARY NOT FOR  
CONSTRUCTION OR RECORDING**



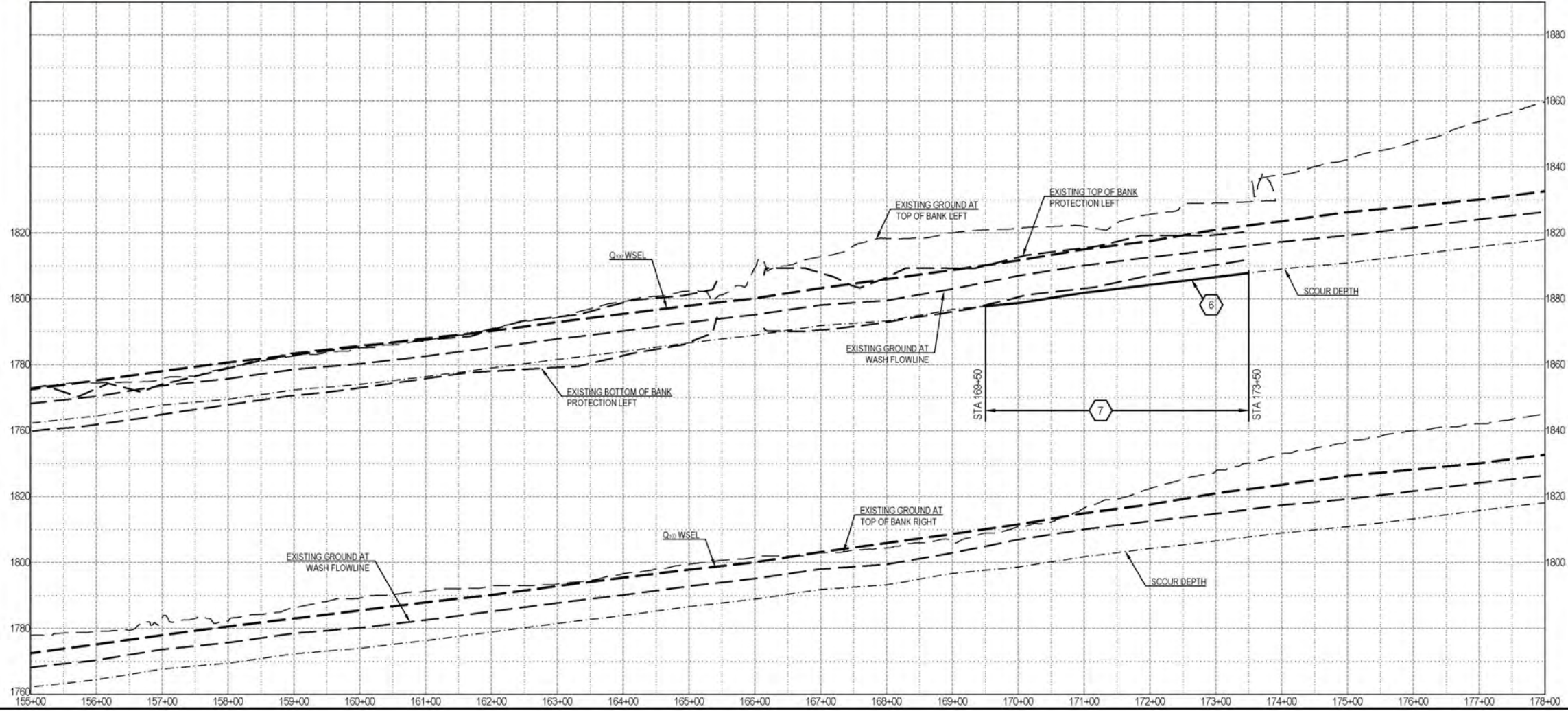
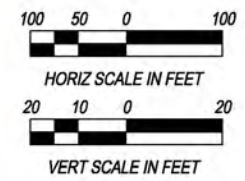
DATE	REVISION	BY
<p><b>15% PRELIMINARY NOT FOR CONSTRUCTION</b></p>		
<p><b>CITY OF SCOTTSDALE PUBLIC WORKS CAPITAL PROJECT MANAGEMENT</b></p> <p>7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 86221</p>		
<p><b>SHEET TITLE: CHANNEL PLAN &amp; PROFILE SHEET</b></p>		
<p><b>PROJECT TITLE: REATA WASH FLOOD CONTROL IMPROVEMENT STUDY</b></p>		
SCALE	DESIGNED	DATE
HORIZ. 1" = 100'	AS-BUILT	August 2016
VERT. 1" = 20'	DRAWN	XX/XX
<p>PROJECT NO. 1450011</p>		<p>SHT. C6 12 OF 19</p>

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**GRADING NOTES**

- 6 SCOUR DEPTH AND BOTTOM OF PROPOSED BANK PROTECTION.
- 7 PROPOSED BURIED BANK PROTECTION IMPROVEMENTS. SEE TYPICAL SECTION SHEET FOR DETAILS.



**EXHIBIT 5**  
**CONCEPT DESIGN PLANS (15%)**  
**PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING**

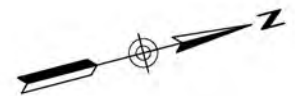


DATE	REVISION	BY
ENGINEER	<b>PUBLIC WORKS</b> <b>CAPITAL PROJECT MANAGEMENT</b> 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251	
<b>15% PRELIMINARY NOT FOR CONSTRUCTION</b>		
<b>SHEET TITLE: CHANNEL PLAN &amp; PROFILE SHEET</b>		
<b>PROJECT TITLE: REATA WASH FLOOD CONTROL IMPROVEMENT STUDY</b>		
SCALE	DESIGNED	DATE
HORIZ 1" = 100'	AS-BUILT	August 2016
VERT. 1" = 20'	DRAWN	XX/XX
BIO. NO. XXXX PROJECT NO. 14SQ011		SHEET C7 13 OF 19

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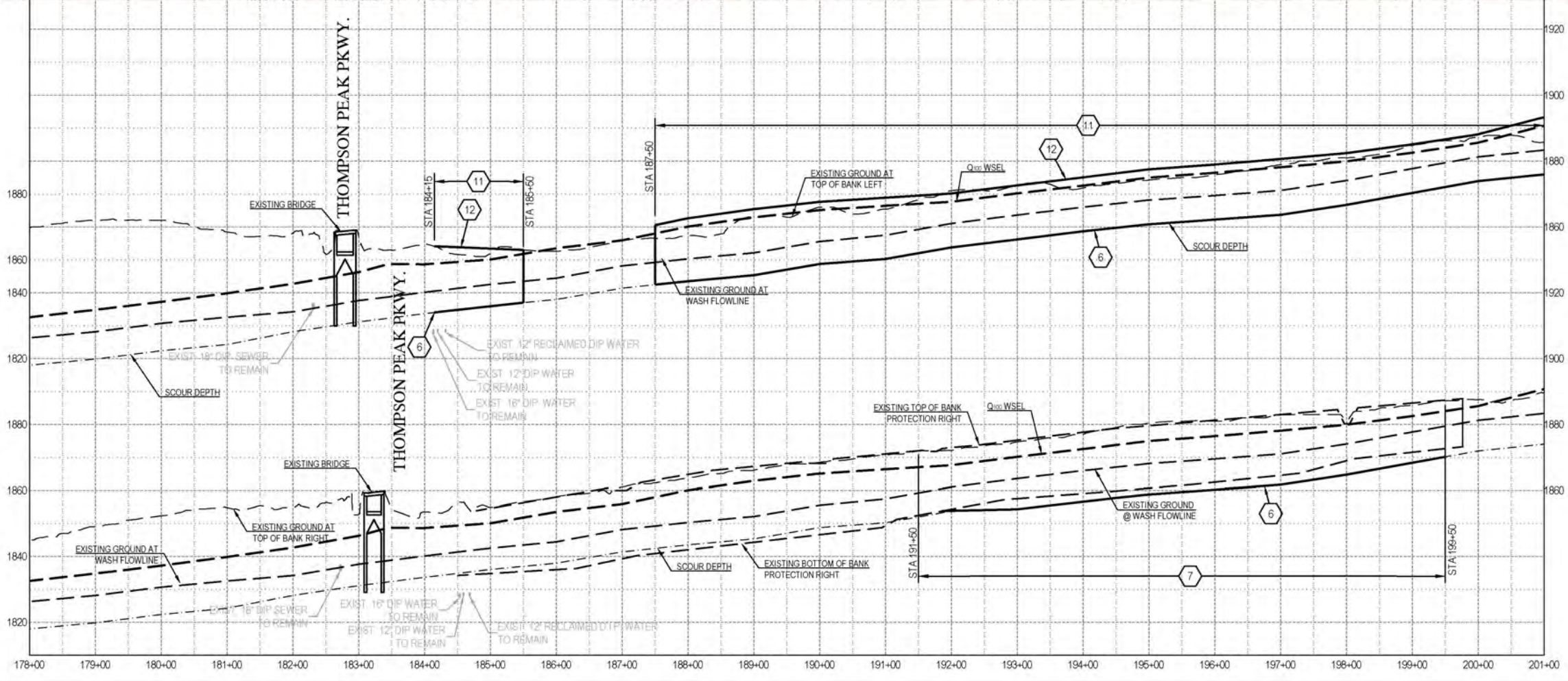
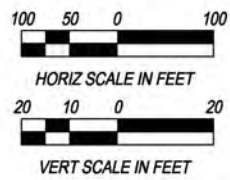
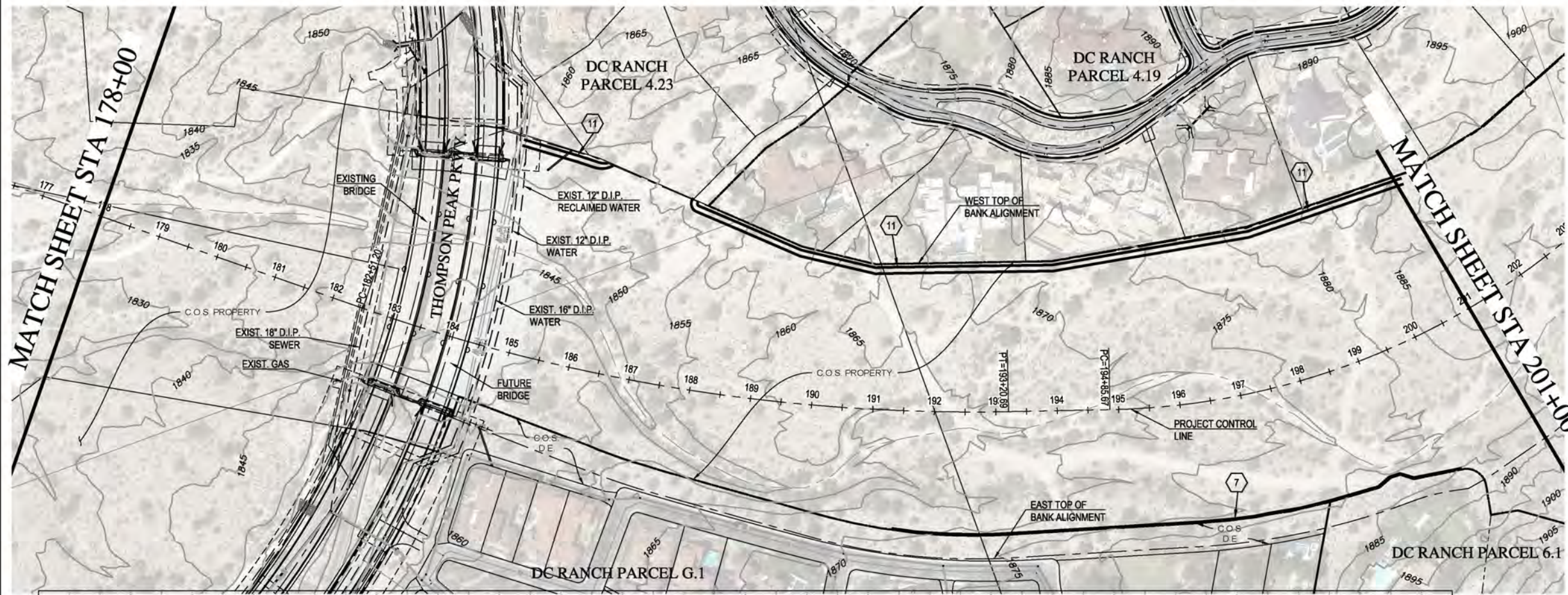
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**GRADING NOTES**

- 6 SCOUR DEPTH AND BOTTOM OF PROPOSED BANK PROTECTION.
- 7 PROPOSED BURIED BANK PROTECTION IMPROVEMENTS. SEE TYPICAL SECTION SHEET FOR DETAILS.
- 11 PROPOSED BURIED BANK PROTECTION. SEE TYPICAL SECTION SHEETS FOR DETAILS.
- 12 PROPOSED TOP OF BANK PROTECTION. SEE TYPICAL SECTION SHEETS FOR DETAILS.



**EXHIBIT 5  
 CONCEPT DESIGN PLANS (15%)**

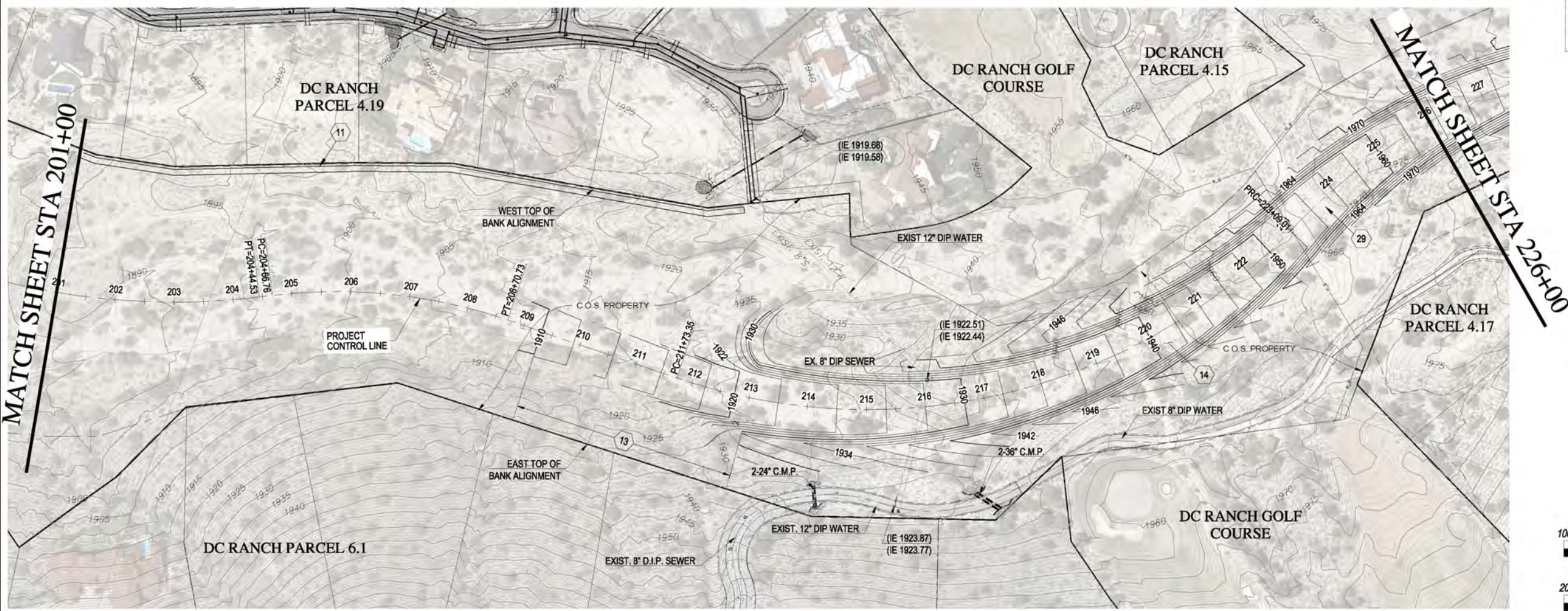
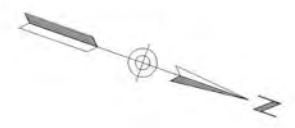
**PRELIMINARY NOT FOR  
 CONSTRUCTION OR RECORDING**



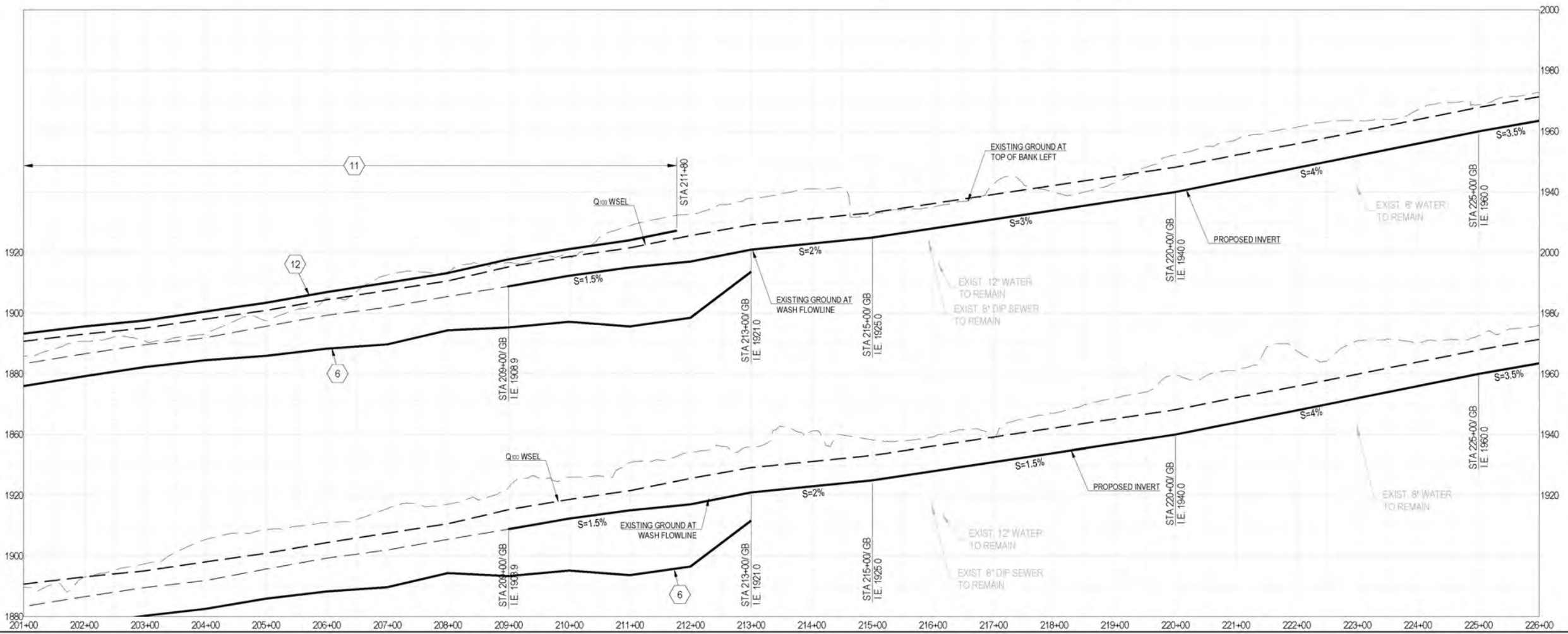
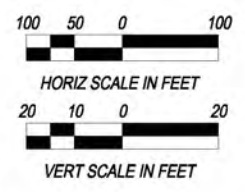
DATE	REVISION	BY
ENGINEER	PUBLIC WORKS	
<b>15%</b>	CAPITAL PROJECT MANAGEMENT	
PRELIMINARY NOT FOR CONSTRUCTION	7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251	
SHEET TITLE <b>CHANNEL PLAN &amp; PROFILE SHEET</b>		
PROJECT TITLE <b>REATA WASH FLOOD CONTROL IMPROVEMENT STUDY</b>		
SCALE	DESIGNED	DATE
HORIZ 1" = 100'	AS-BUILT	August 2016
VERT. 1" = 20'	XX/XX	XX/XX
PROJECT NO.		SHT.
14SQ011		C8
		14 of 19

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XXX-XX



- GRADING NOTES**
- 6 SCOUR DEPTH AND BOTTOM OF PROPOSED BANK PROTECTION.
  - 11 PROPOSED BURIED BANK PROTECTION. SEE TYPICAL SECTION SHEETS FOR DETAILS.
  - 12 PROPOSED TOP OF BANK PROTECTION. SEE TYPICAL SECTION SHEETS FOR DETAILS.
  - 13 STA 209+00 TO STA 213+00. PROPOSED TRANSITION GRADING FROM EXISTING CHANNEL TO GROUTED ROCK CHANNEL.
  - 14 PROPOSED GROUTED ROCK CHANNEL. SEE TYPICAL SECTION SHEETS FOR DETAILS.
  - 29 PROPOSED GOLF CART CROSSING.



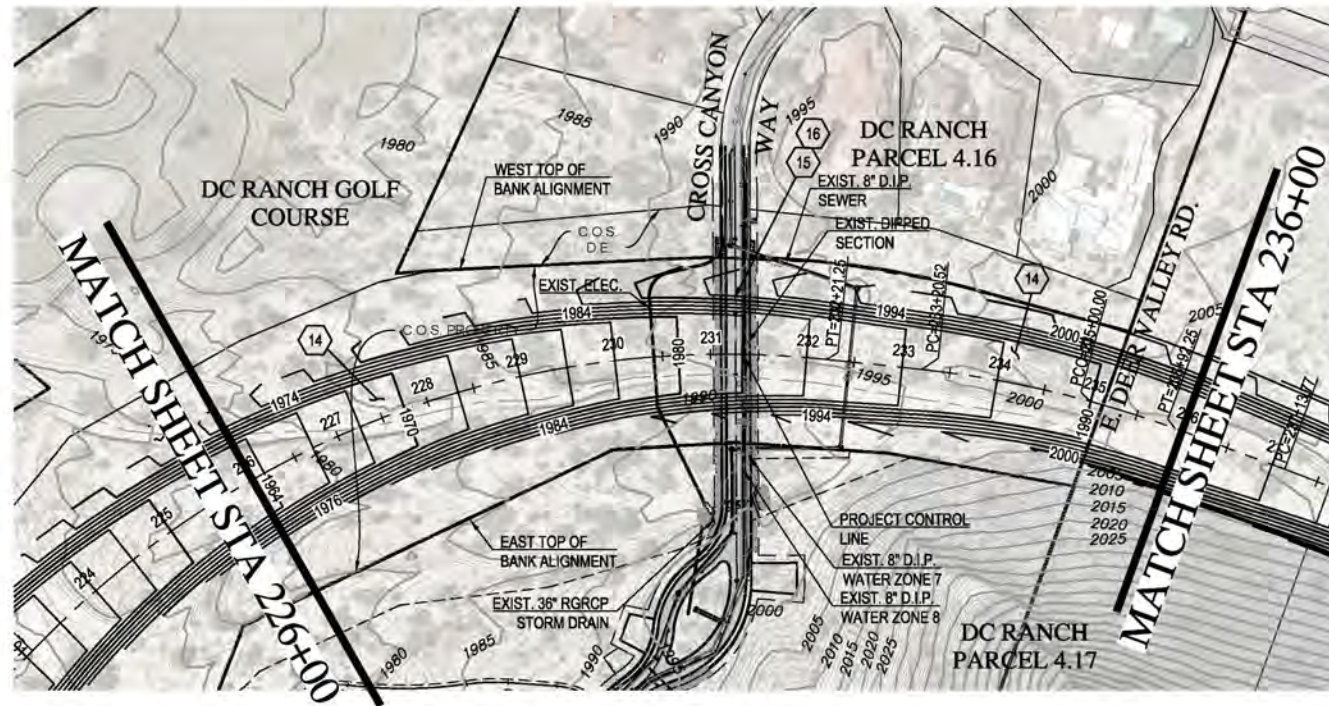
**EXHIBIT 5**  
**CONCEPT DESIGN PLANS (15%)**  
**PRELIMINARY NOT FOR**  
**CONSTRUCTION OR RECORDING**



DATE	REVISION	BY
<p>ENGINEER <b>15%</b> PRELIMINARY NOT FOR CONSTRUCTION</p>		
<p><b>CITY OF SCOTTSDALE</b> <b>PUBLIC WORKS</b> <b>CAPITAL PROJECT</b> <b>MANAGEMENT</b> 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251</p>		
<p>SHEET TITLE <b>CHANNEL PLAN &amp; PROFILE SHEET</b></p>		
<p>PROJECT TITLE <b>REATA WASH</b> <b>FLOOD CONTROL IMPROVEMENT STUDY</b></p>		
SCALE HORIZ 1" = 100' VERT. 1" = 20'	DESIGNED August 2016	DATE XXXX AS-BUILT XX/XX
<p>BIO. NO. XXXX</p>		<p>SHT. C9</p>
<p>PROJECT NO. 14SQ011</p>		<p>15 OF 19</p>

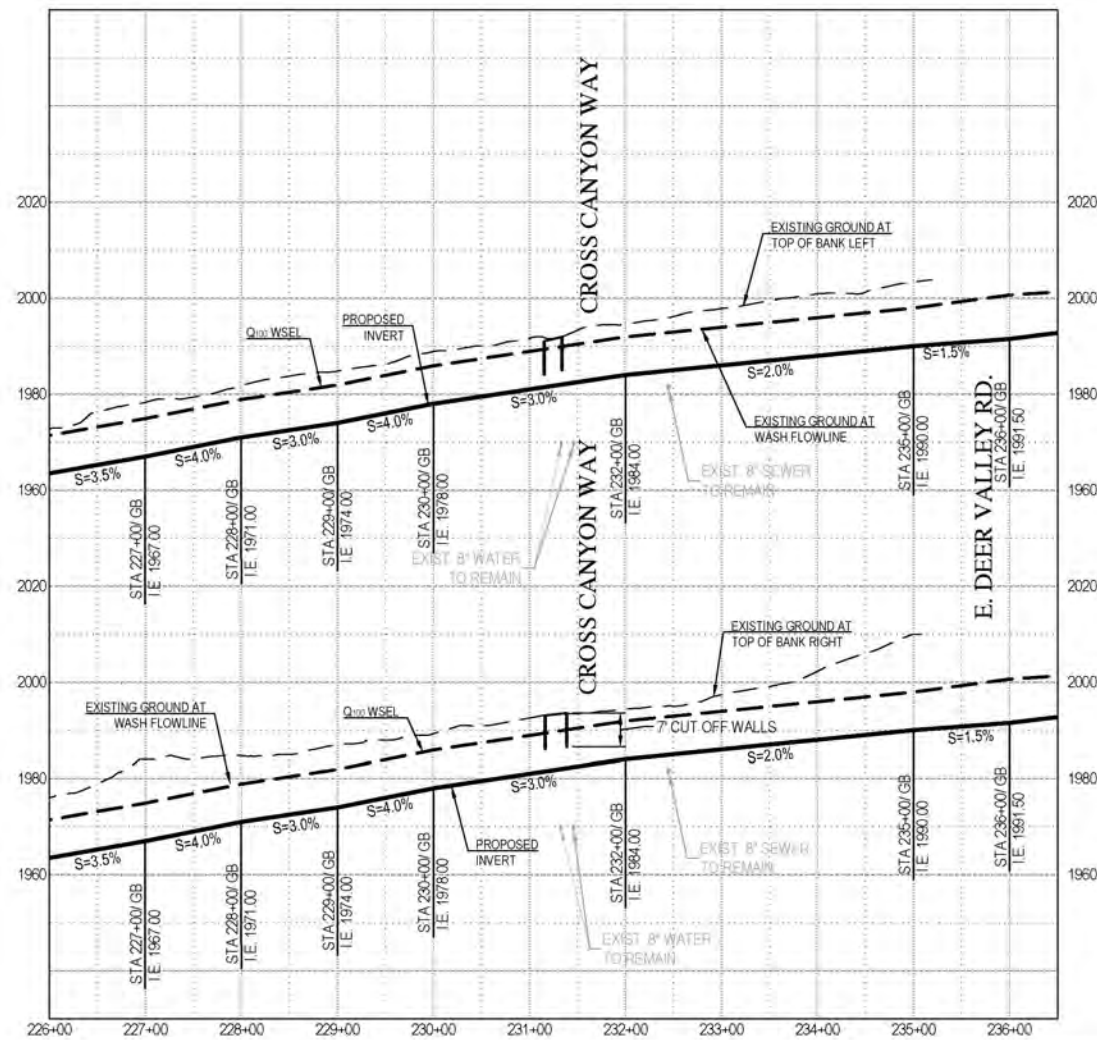
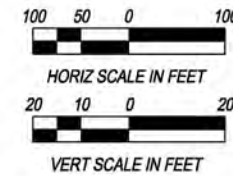
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XXX-XX



**GRADING NOTES**

- 14 PROPOSED GROUTED ROCK CHANNEL. SEE TYPICAL SECTION SHEETS FOR DETAILS.
- 15 PROPOSED ROBC WITH WINGWALLS.
- 16 PROPOSED PAVEMENT REPLACEMENT AND GUARDRAILS.

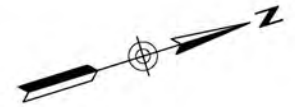


**EXHIBIT 5  
 CONCEPT DESIGN PLANS (15%)**

**PRELIMINARY NOT FOR  
 CONSTRUCTION OR RECORDING**

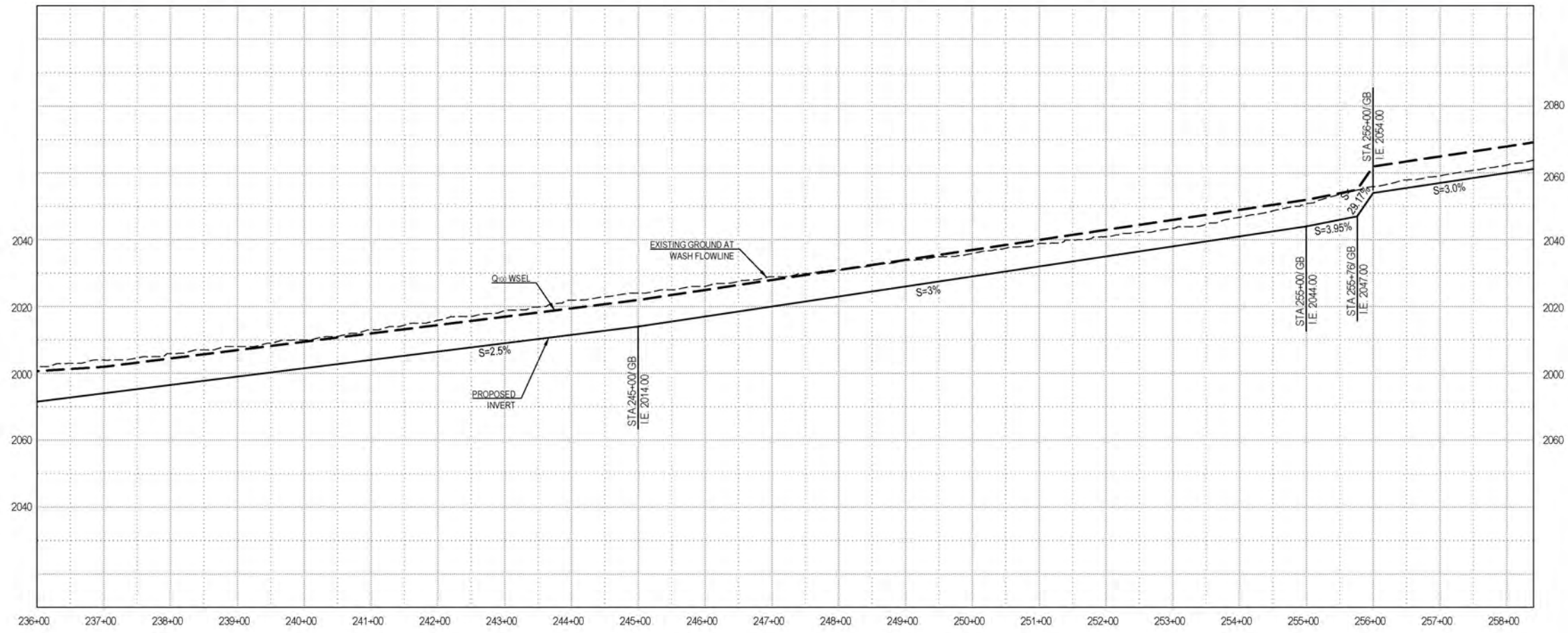
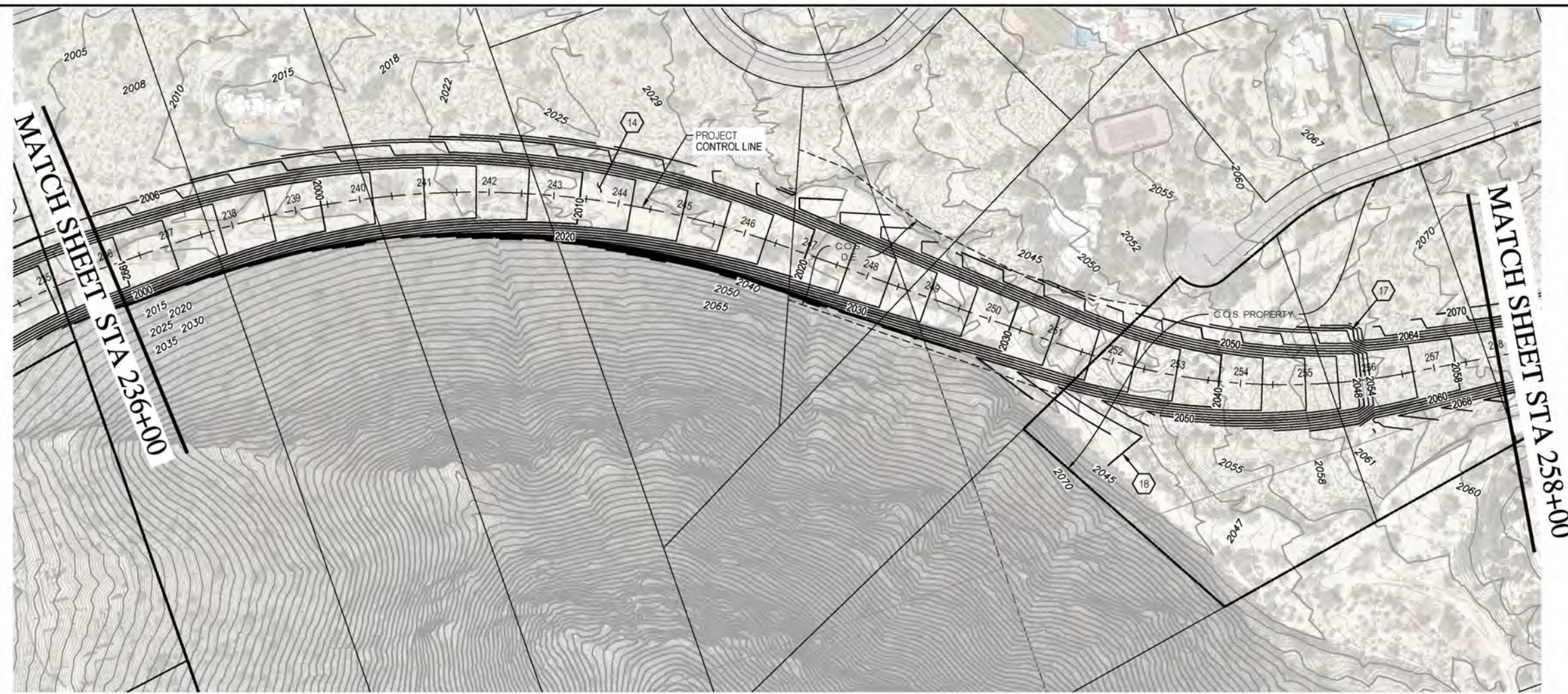
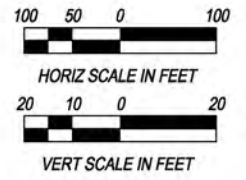


DATE	REVISION	BY
<p>ENGINEER  <b>15%</b>                  PRELIMINARY                  NOT FOR                  CONSTRUCTION</p>		
<p><b>CITY OF SCOTTSDALE</b>                  PUBLIC WORKS                  CAPITAL PROJECT                  MANAGEMENT                  7447 E. INDIAN SCHOOL RD.                  SCOTTSDALE, ARIZONA 85251</p>		
<p>SHEET TITLE  <b>CHANNEL PLAN &amp; PROFILE SHEET</b></p>		
<p>PROJECT TITLE  <b>REATA WASH                  FLOOD CONTROL IMPROVEMENT STUDY</b></p>		
SCALE	DESIGNED	DATE
HORIZ 1" = 100'	DRAWN	August 2016
VERT. 1" = 20'	AS-BUILT	XXXX
	PROJECT NO.	BID NO.
	14SQ011	XXXX
	SHT.	C10
	16	of 19



**GRADING NOTES**

- 14 PROPOSED GROUTED ROCK CHANNEL. SEE TYPICAL SECTION SHEETS FOR DETAILS.
- 17 PROPOSED GROUTED ROCK CHANNEL DROP.
- 18 PROPOSED OFFSITE FLOW INLET CHANNEL.



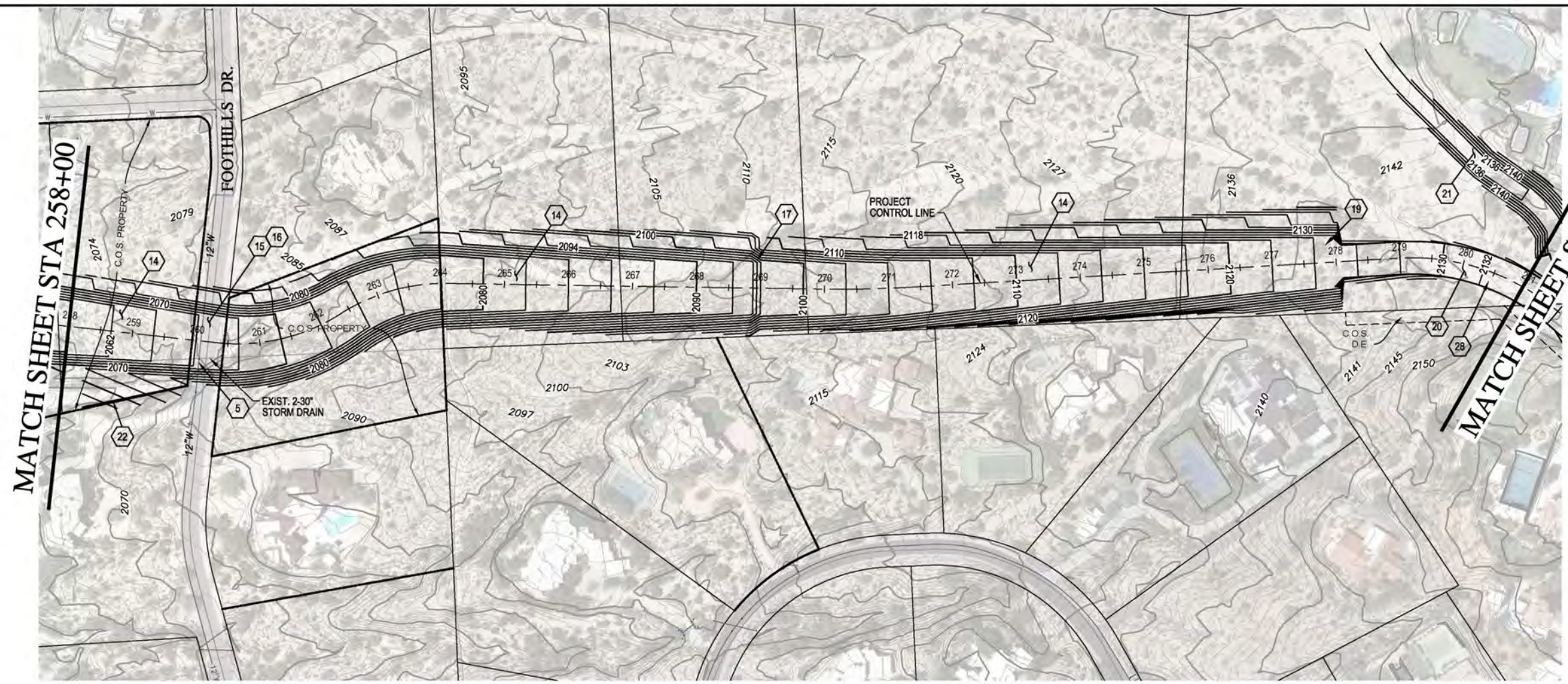
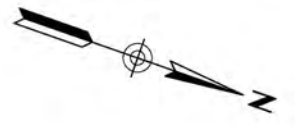
**EXHIBIT 5  
 CONCEPT DESIGN PLANS (15%)**

**PRELIMINARY NOT FOR  
 CONSTRUCTION OR RECORDING**

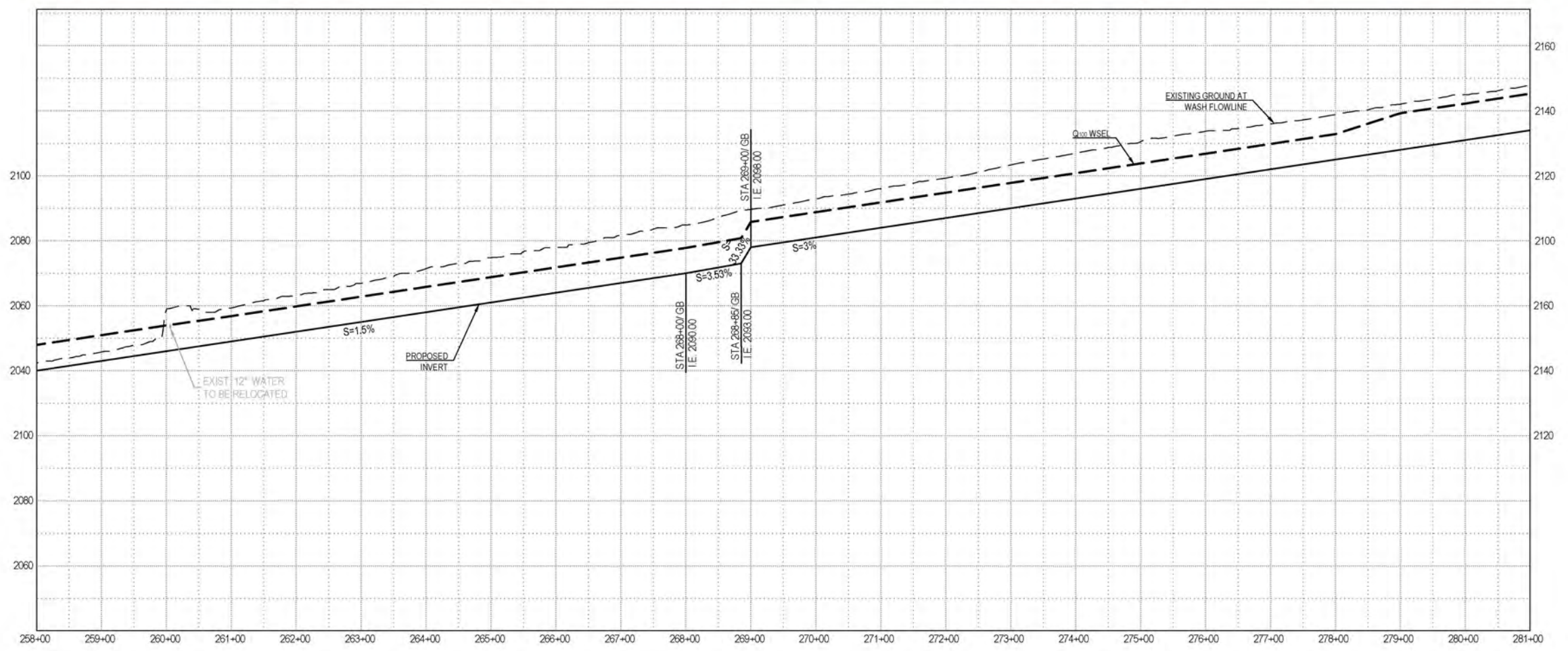
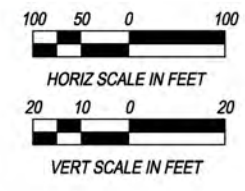


DATE	REVISION	BY
ENGINEER	PUBLIC WORKS	
<b>15%</b>	CITY OF SCOTTSDALE	
PRELIMINARY NOT FOR CONSTRUCTION	CAPITAL PROJECT MANAGEMENT	
SHEET TITLE: CHANNEL PLAN & PROFILE SHEET		
PROJECT TITLE: REATA WASH FLOOD CONTROL IMPROVEMENT STUDY		
SCALE	DESIGNED	DATE
HORIZ 1" = 100'	AS-BUILT	August 2016
VERT. 1" = 20'	DRAWN	XX/XX
PROJECT NO. 14SQ011		SHT. C11
17 of 19		XXX-XX

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- GRADING NOTES**
- ⑤ PROPOSED ENCASED WATER LINE RELOCATION.
  - ⑭ PROPOSED GROUTED ROCK CHANNEL. SEE TYPICAL SECTION SHEETS FOR DETAILS.
  - ⑮ PROPOSED RCBC WITH WINGWALLS.
  - ⑯ PROPOSED PAVEMENT REPLACEMENT AND GUARDRAILS.
  - ⑰ PROPOSED GROUTED ROCK CHANNEL DROP.
  - ⑲ PROPOSED TRANSITION FROM GROUTED ROCK CHANNEL TO CONCRETE "U" CHANNEL.
  - ⑳ PROPOSED CONCRETE "U" CHANNEL. SEE TYPICAL SECTION SHEETS FOR DETAILS.
  - ㉑ PROPOSED DOBSON WASH RELEASE CHANNEL DAYLIGHT GRADING.
  - ㉒ PROPOSED RETAINING WALL.
  - ㉓ POTENTIAL FUTURE WILDLIFE CROSSING.



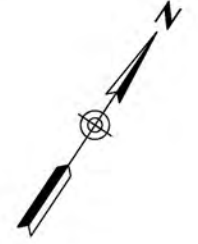
**EXHIBIT 5**  
**CONCEPT DESIGN PLANS (15%)**  
**PRELIMINARY NOT FOR**  
**CONSTRUCTION OR RECORDING**



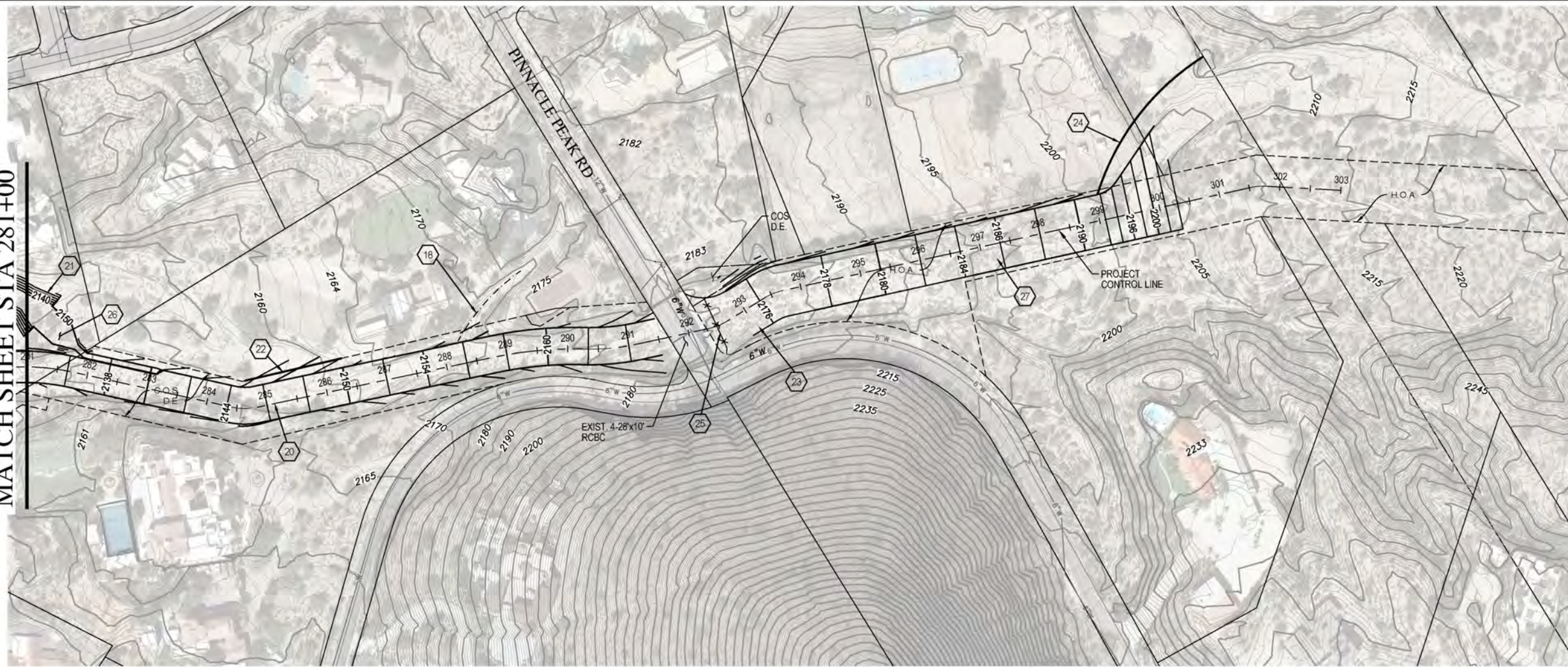
DATE	REVISION	BY
ENGINEER	<b>PUBLIC WORKS</b> <b>CAPITAL PROJECT MANAGEMENT</b> 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251	
<b>15%</b> PRELIMINARY NOT FOR CONSTRUCTION		
SHEET TITLE <b>CHANNEL PLAN &amp; PROFILE SHEET</b>		
PROJECT TITLE <b>REATA WASH FLOOD CONTROL IMPROVEMENT STUDY</b>		
SCALE	DESIGNED	DATE
HORIZ 1" = 100'	DRAWN	August 2016
VERT. 1" = 20'	AS-BUILT	XX/XX
PROJECT NO.		SHT.
14SQ011		C12
PROJECT NO.		18 OF 19
14SQ011		

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XXX-XX

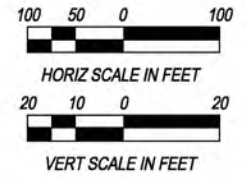


MATCH SHEET STA 281+00



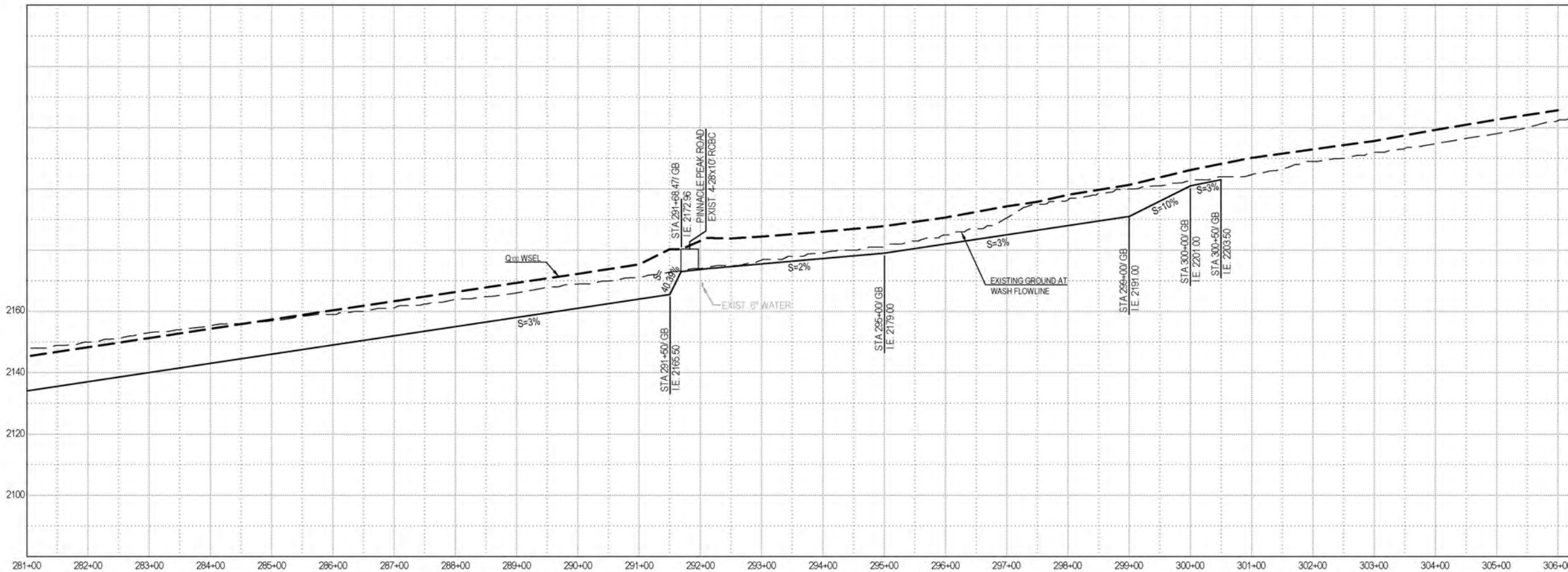
**GRADING NOTES**

- 18 PROPOSED OFFSITE FLOW INLET CHANNEL.
- 20 PROPOSED CONCRETE "U" CHANNEL. SEE TYPICAL SECTION SHEETS FOR DETAILS.
- 21 PROPOSED DOBSON WASH RELEASE CHANNEL DAYLIGHT GRADING.
- 22 PROPOSED RETAINING WALL.
- 23 PROPOSED CONCRETE TRANSITION STRUCTURE FROM GROUTED ROCK CHANNEL TO BRIDGE OPENING.
- 24 PROPOSED FLOODWALL.
- 25 BREAKAWAY FENCE.
- 26 DOBSON WASH OUTLET STRUCTURE.
- 27 PROPOSED "U" CHANNEL WITH GROUTED ROCK INVERT. SEE TYPICAL SECTION FOR DETAILS.



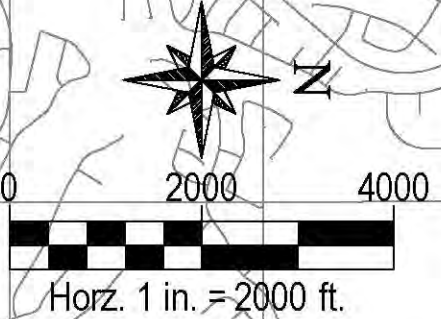
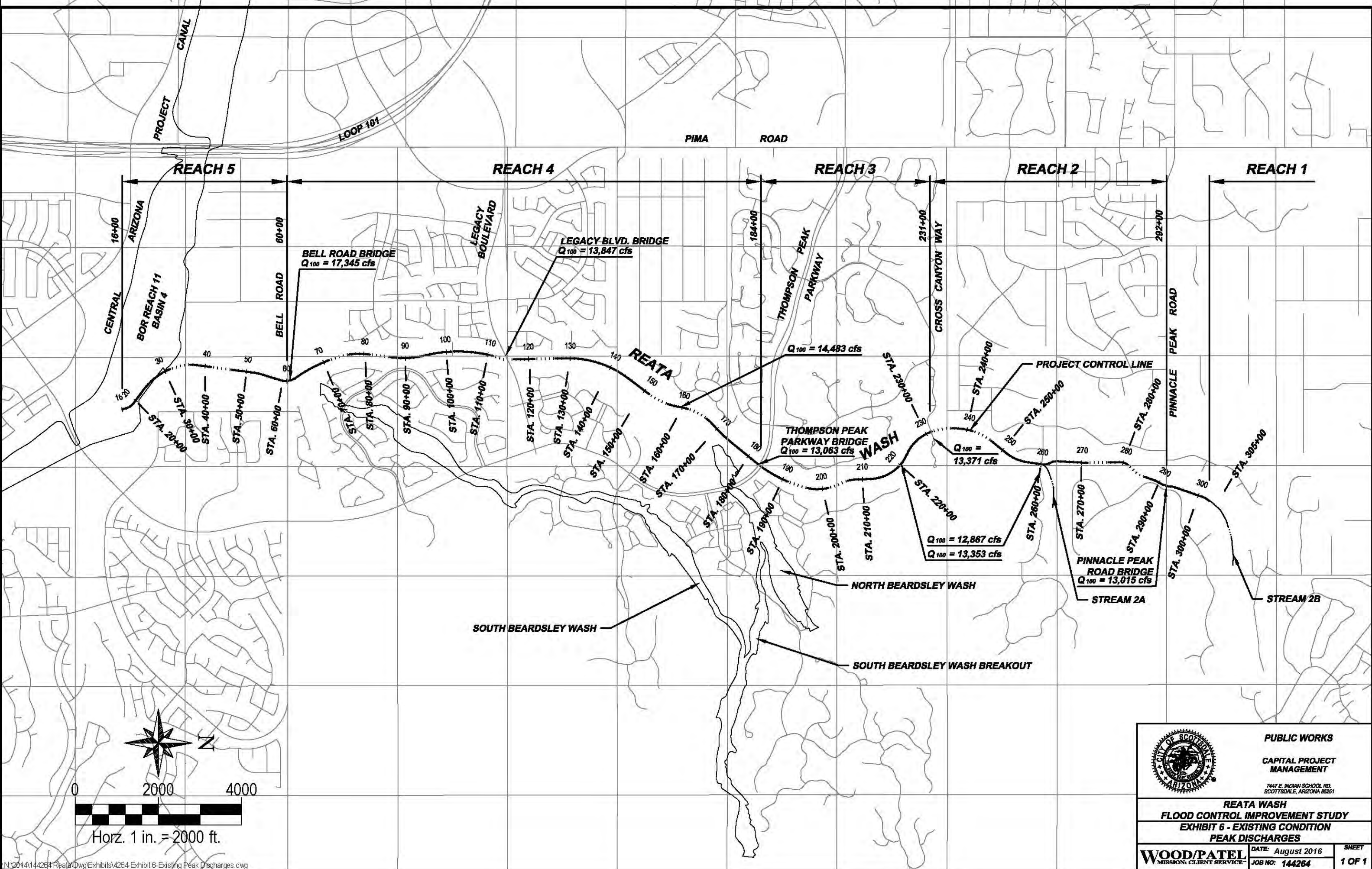
**EXHIBIT 5  
 CONCEPT DESIGN PLANS (15%)**


**PRELIMINARY NOT FOR  
 CONSTRUCTION OR RECORDING**



DATE	REVISION	BY
<b>15%                  PRELIMINARY                  NOT FOR                  CONSTRUCTION</b>		
		<b>PUBLIC WORKS                  CAPITAL PROJECT                  MANAGEMENT</b>
SHEET TITLE: <b>CHANNEL PLAN &amp; PROFILE SHEET</b>		
PROJECT TITLE: <b>REATA WASH                  FLOOD CONTROL IMPROVEMENT STUDY</b>		
SCALE	DESIGNED	DATE
HORIZ 1" = 100'	AS-BUILT	August 2016
VERT. 1" = 20'	DRAWN	XX/XX
PROJECT NO: 14SQ011		SHEET: C13 19 OF 19

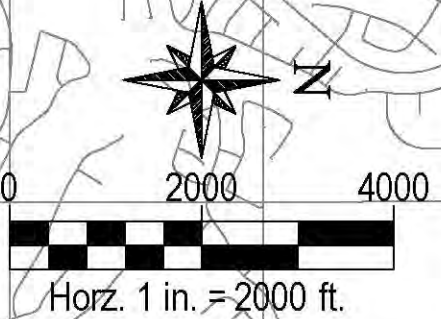
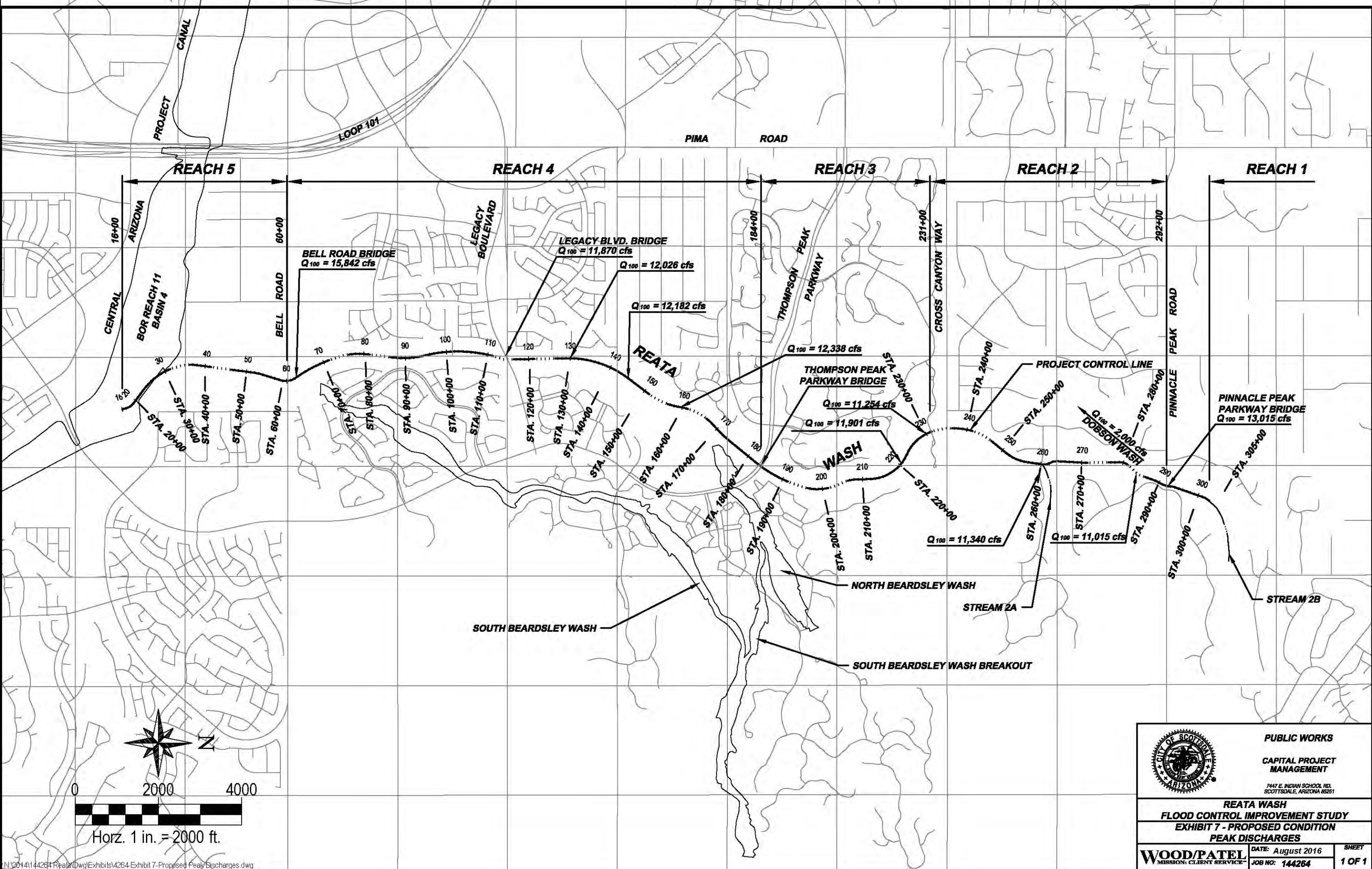
**EXHIBIT 6**  
**EXISTING CONDITION PEAK DISCHARGES**




	<b>PUBLIC WORKS</b> <b>CAPITAL PROJECT MANAGEMENT</b> <small>7417 E. INDIAN SCHOOL RD.          SCOTTSDALE, ARIZONA 85251</small>	
	<b>REATA WASH</b> <b>FLOOD CONTROL IMPROVEMENT STUDY</b> <b>EXHIBIT 6 - EXISTING CONDITION</b> <b>PEAK DISCHARGES</b>	
<b>WOOD/PATEL</b> <small>MISSION: CLIENT SERVICE™</small>	DATE: August 2016 JOB NO: 144264	SHEET <b>1 OF 1</b>



**EXHIBIT 7**  
**PROPOSED CONDITION PEAK DISCHARGES**



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	<b>PUBLIC WORKS</b> <b>CAPITAL PROJECT MANAGEMENT</b> <small>7417 E. INDIAN SCHOOL RD.          SCOTTSDALE, ARIZONA 85251</small>	
	<b>REATA WASH</b> <b>FLOOD CONTROL IMPROVEMENT STUDY</b> <b>EXHIBIT 7 - PROPOSED CONDITION</b> <b>PEAK DISCHARGES</b>	
<b>WOOD/PATEL</b> <small>MISSION: CLIENT SERVICE™</small>	DATE: August 2016 JOB NO: 144264	SHEET <b>1 OF 1</b>