

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

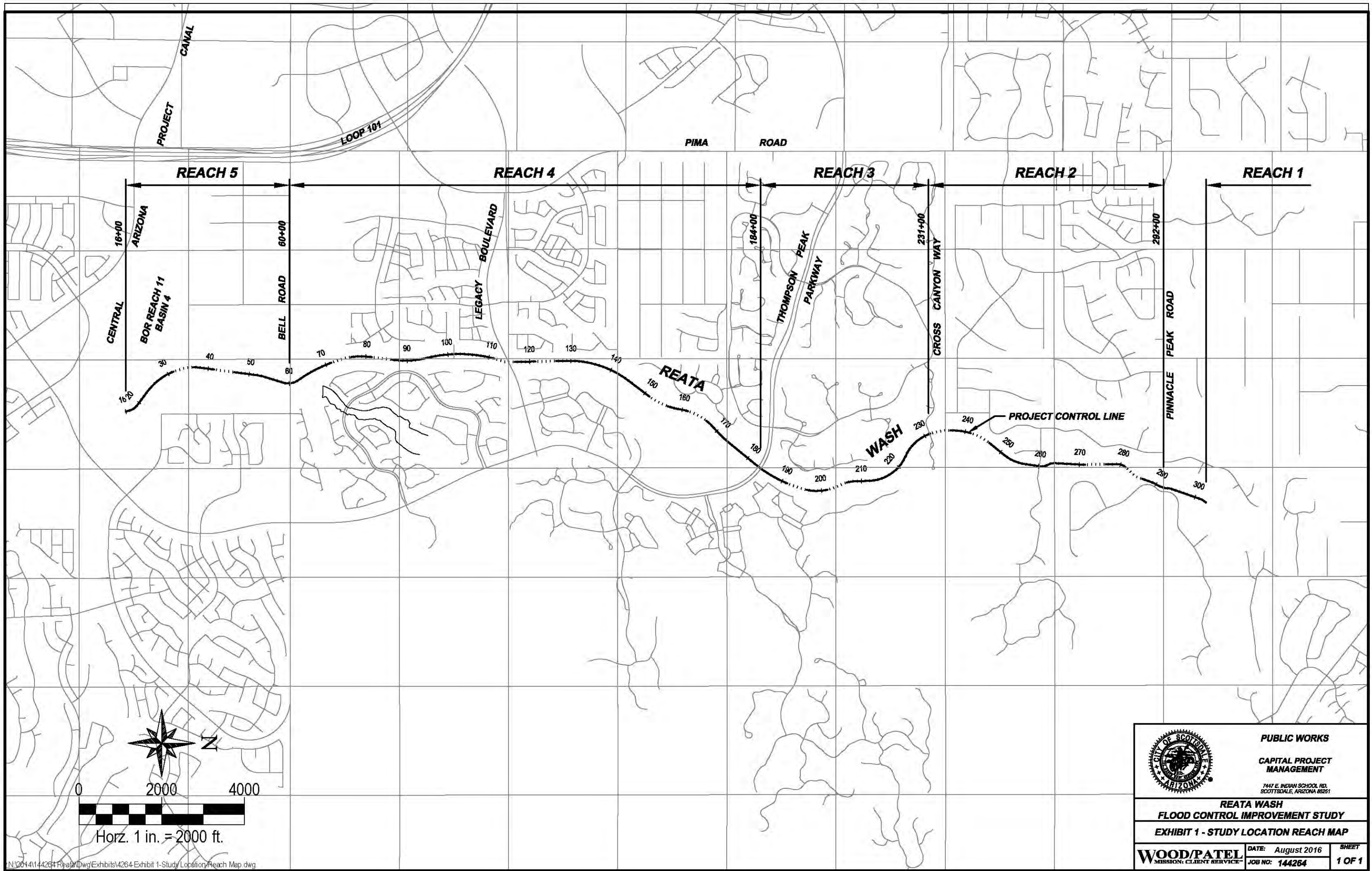
VOLUME II
EXHIBITS

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



N:\2014\144264\Reata\dwg\Exhibits\4264-Exhibit 1-Study Location\Reach Map.dwg



PUBLIC WORKS

CAPITAL PROJECT
MANAGEMENT

7447 E. INDIAN SCHOOL RD.
SCOTTSDALE, ARIZONA 85251

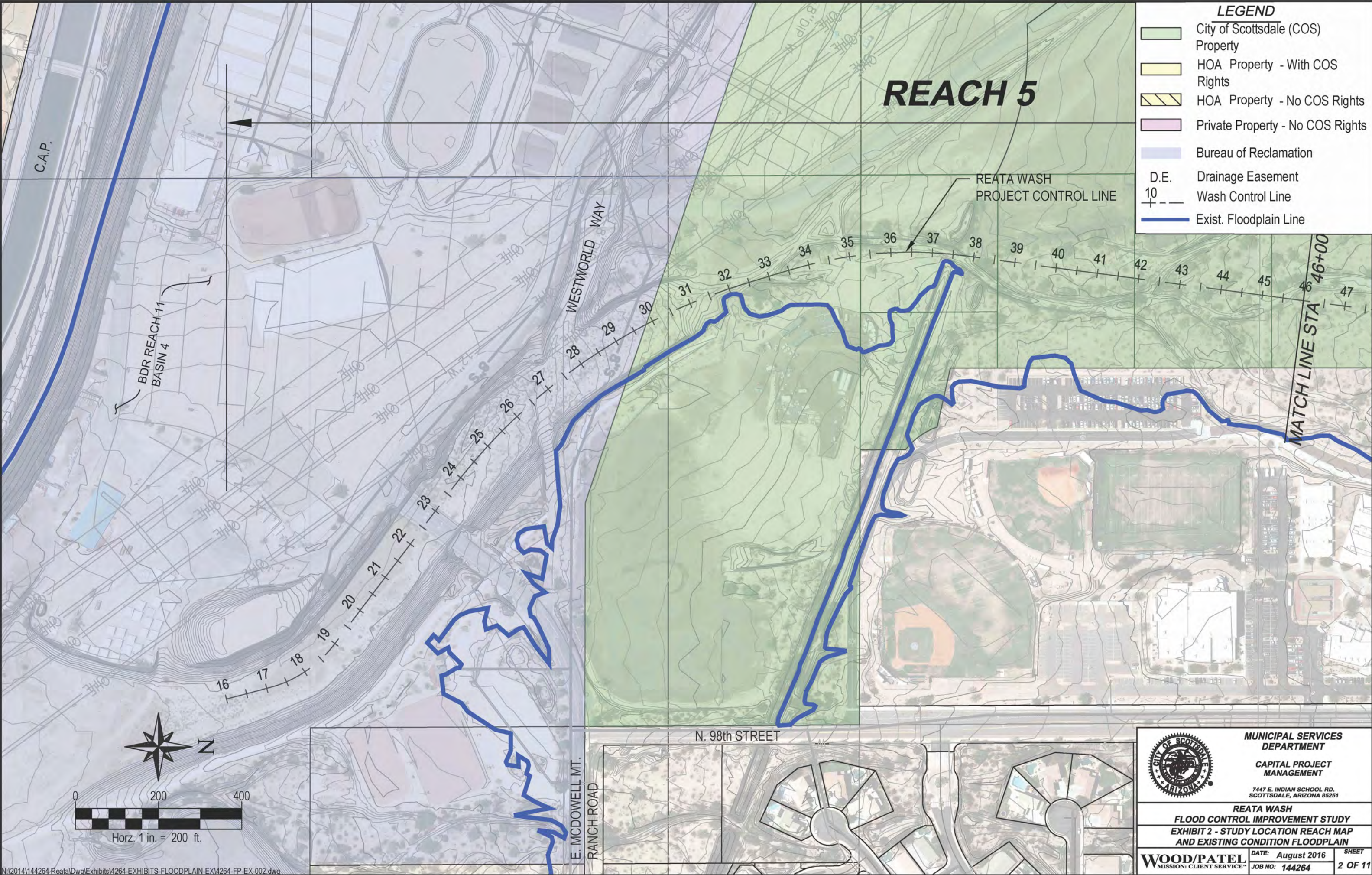
REATA WASH
FLOOD CONTROL IMPROVEMENT STUDY

EXHIBIT 1 - STUDY LOCATION REACH MAP

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	JOB NO: 144264	1 OF 1

EXHIBIT 2

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



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
- 10' Wash Control Line
- Exist. Floodplain Line

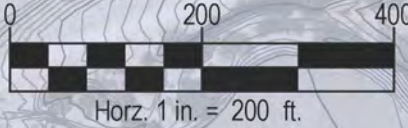
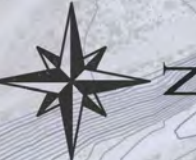
REACH 5

REATA WASH
PROJECT CONTROL LINE

MATCH LINE STA 46+00

N. 98th STREET

E. MCDOWELL MT.
RANCH ROAD

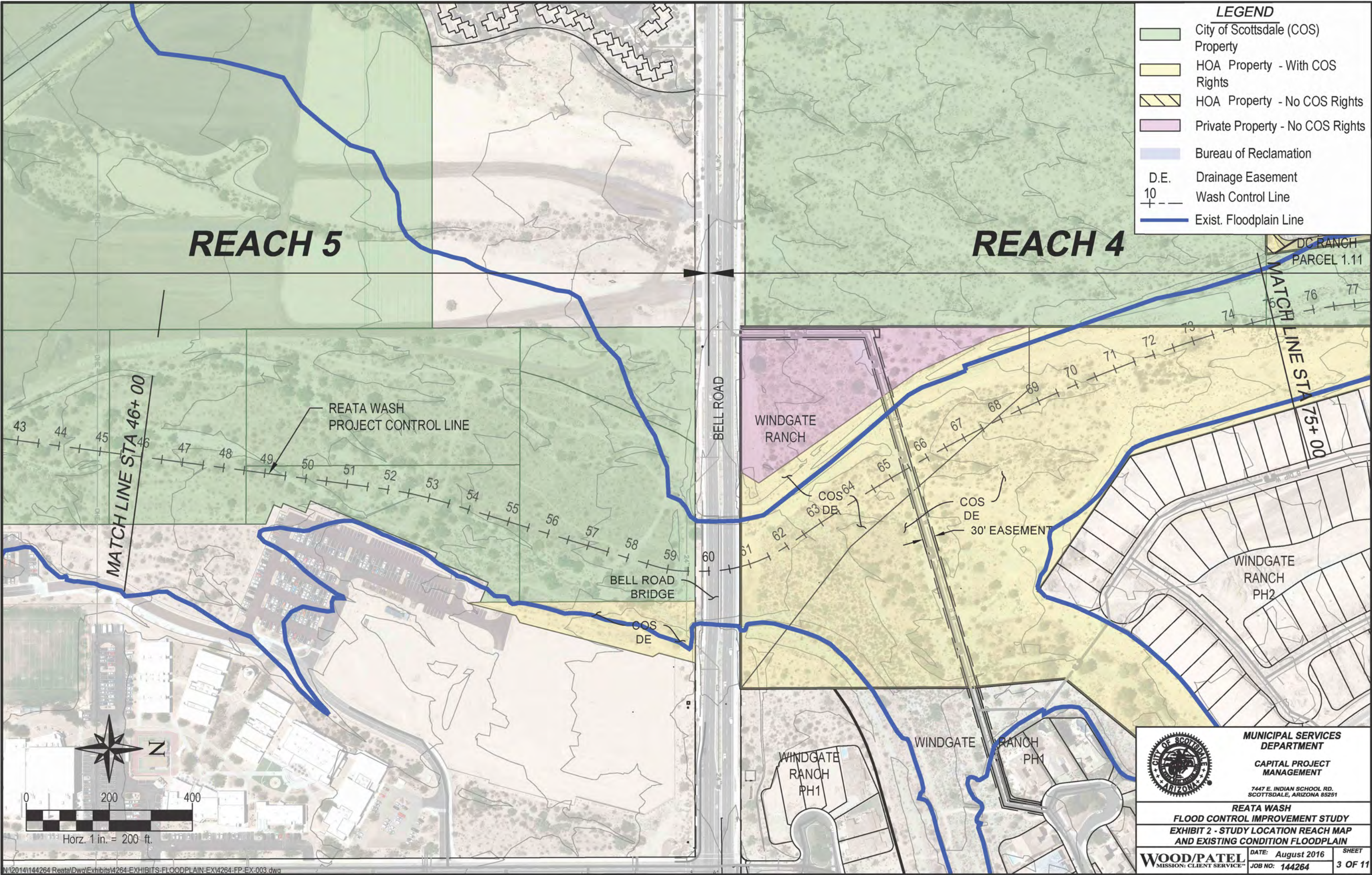


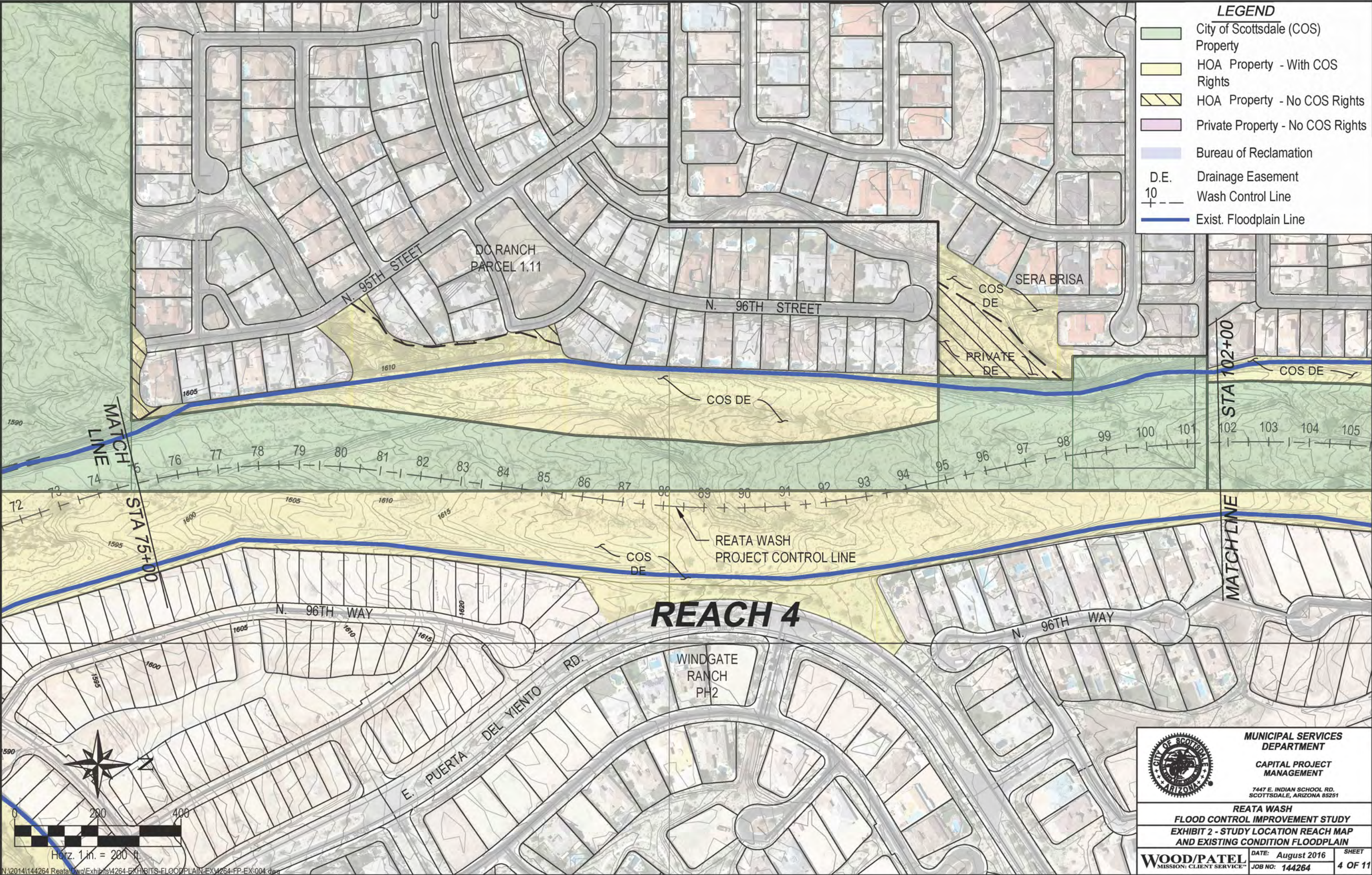
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DEPARTMENT**

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





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REATA WASH

FLOOD CONTROL IMPROVEMENT STUDY

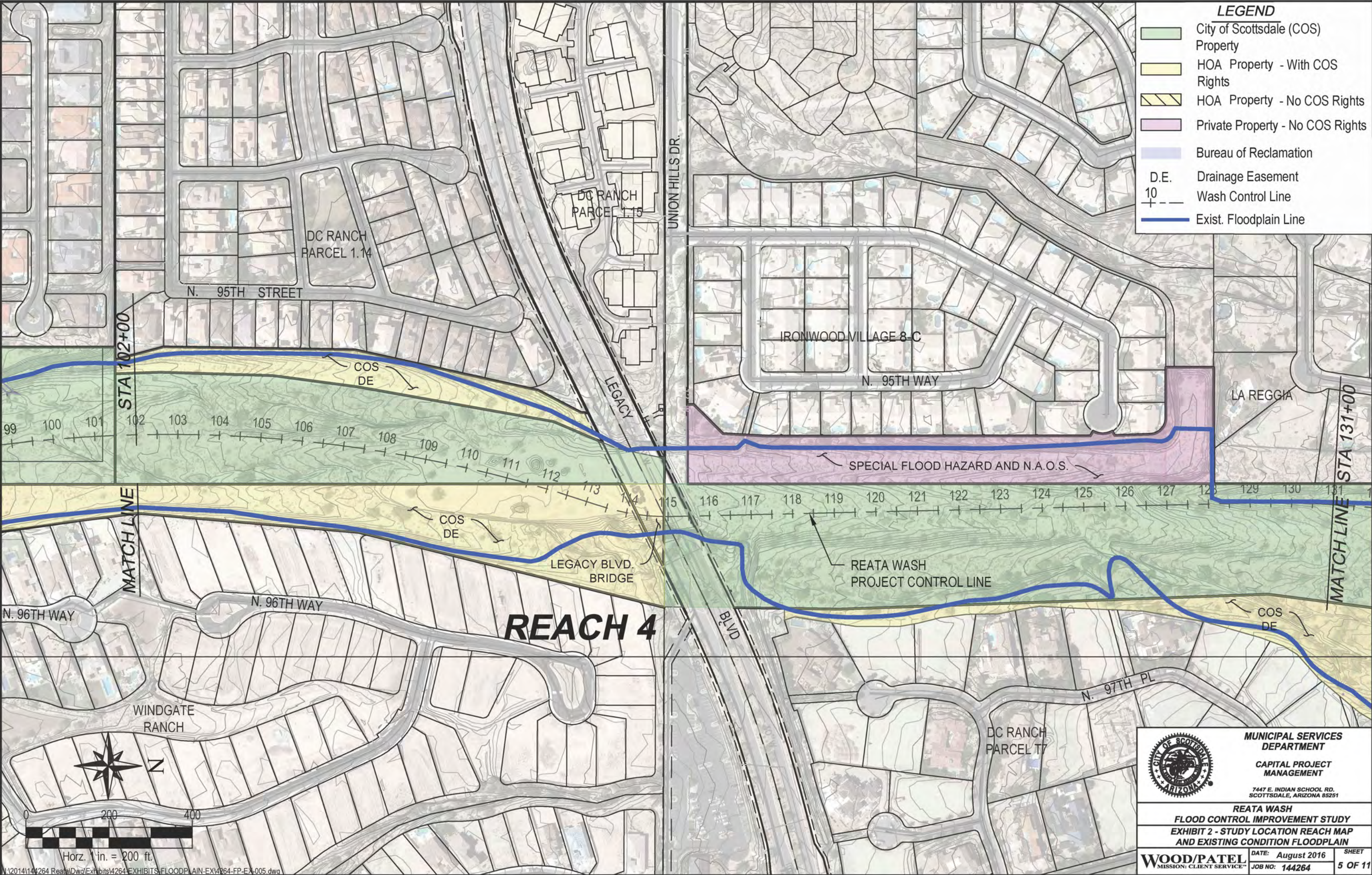
EXHIBIT 2 - STUDY LOCATION REACH MAP AND EXISTING CONDITION FLOODPLAIN

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DATE: August 2016

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SHEET 4 OF 11

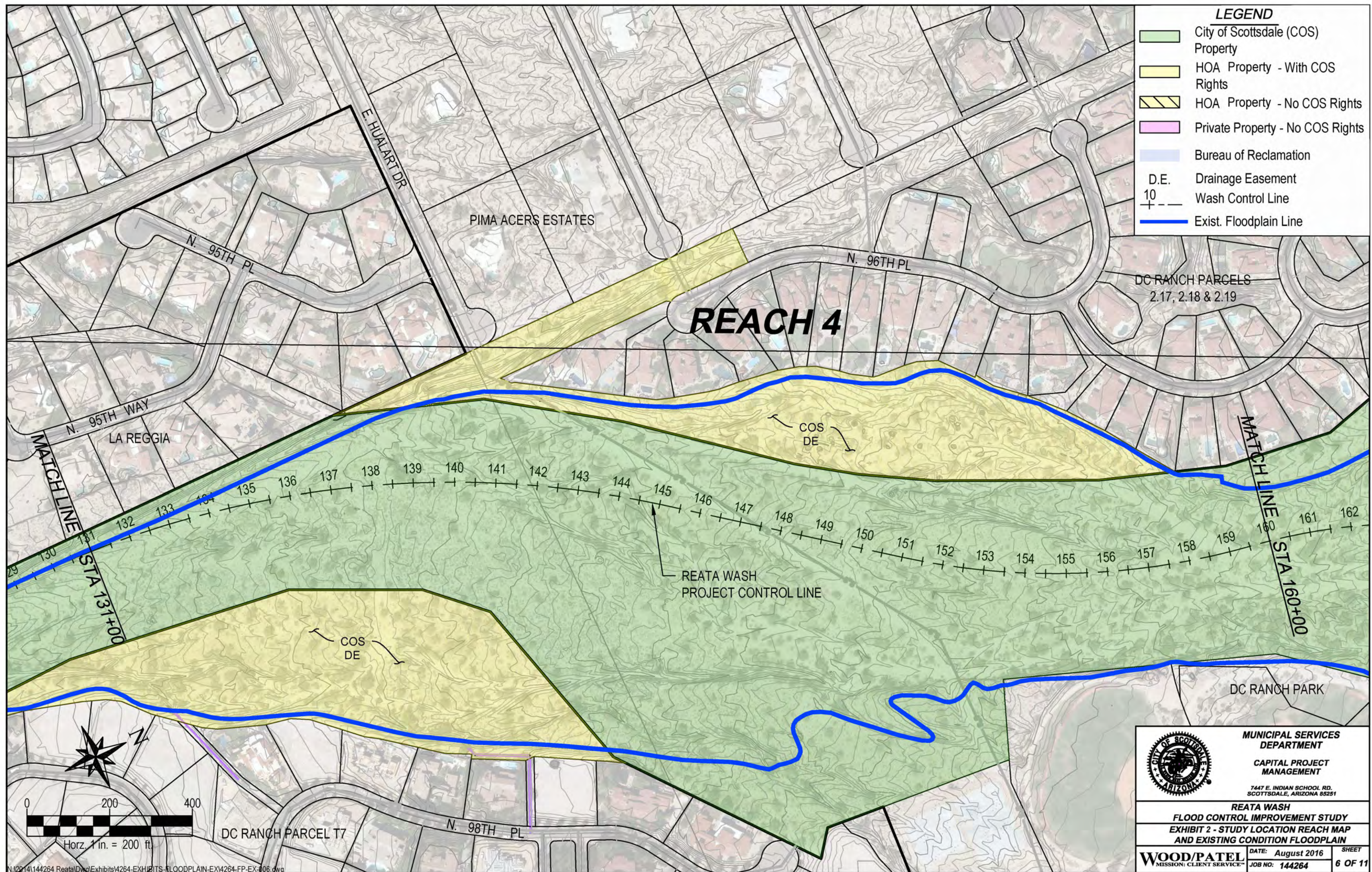


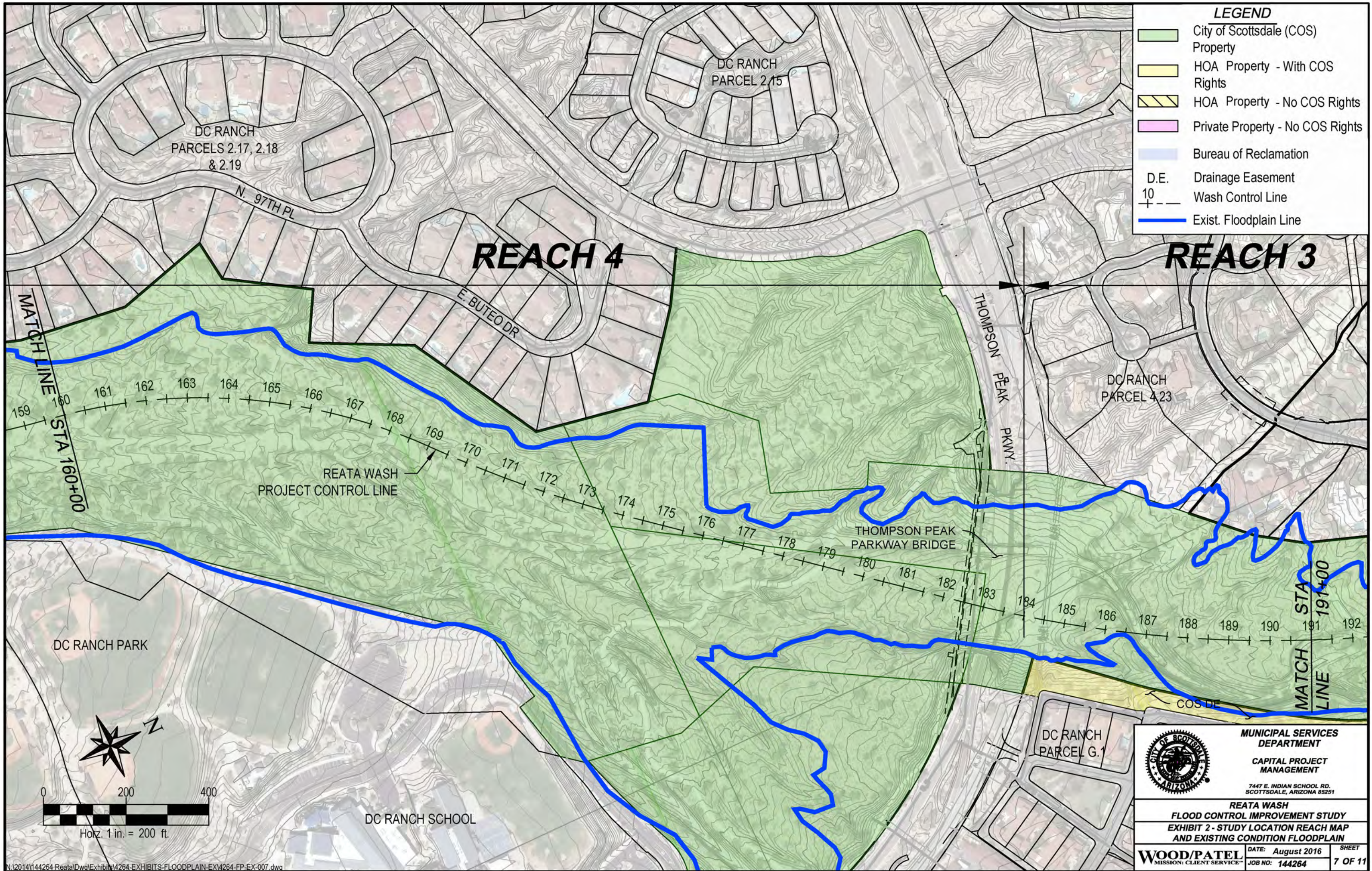


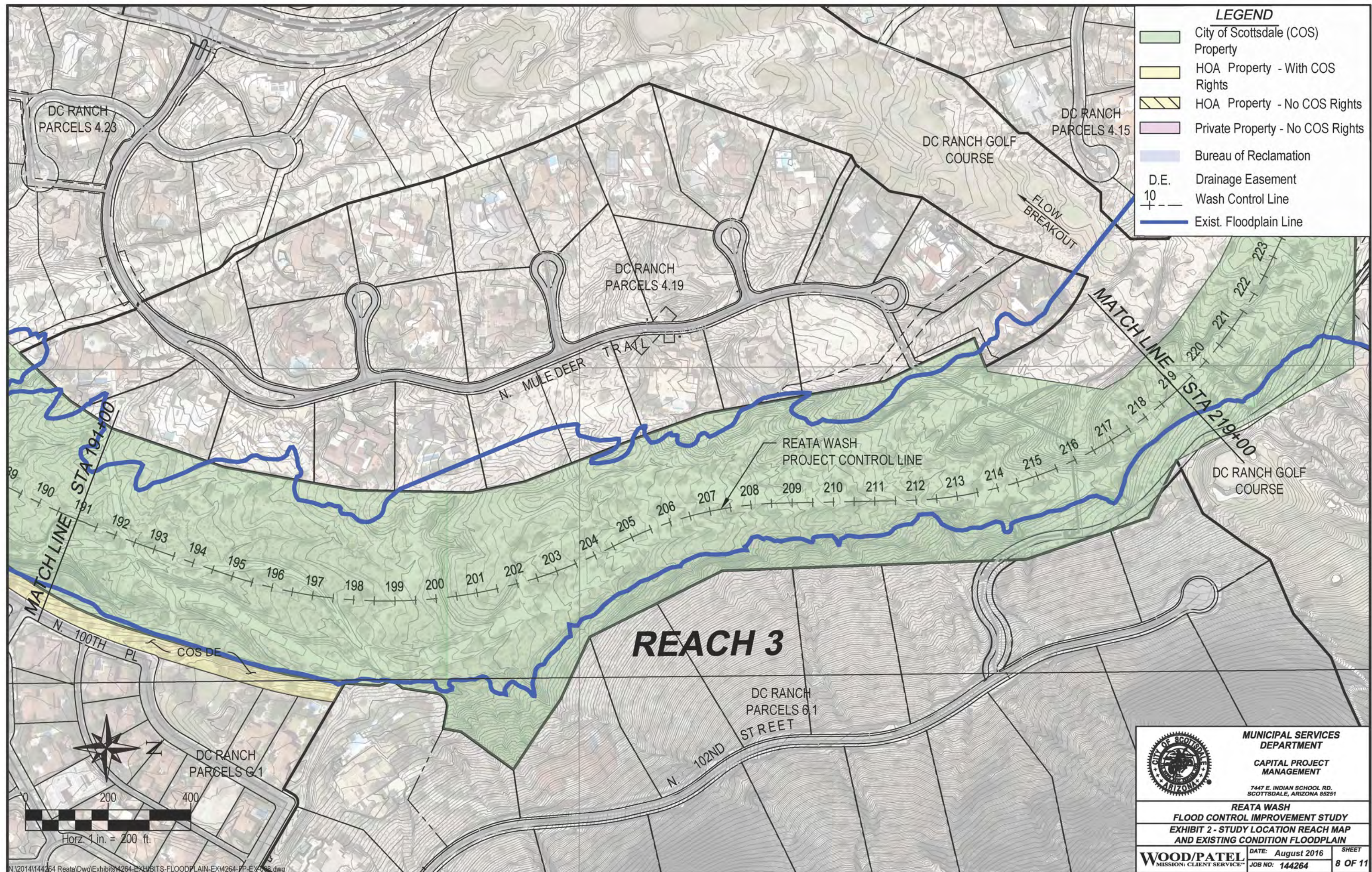
MUNICIPAL SERVICES DEPARTMENT
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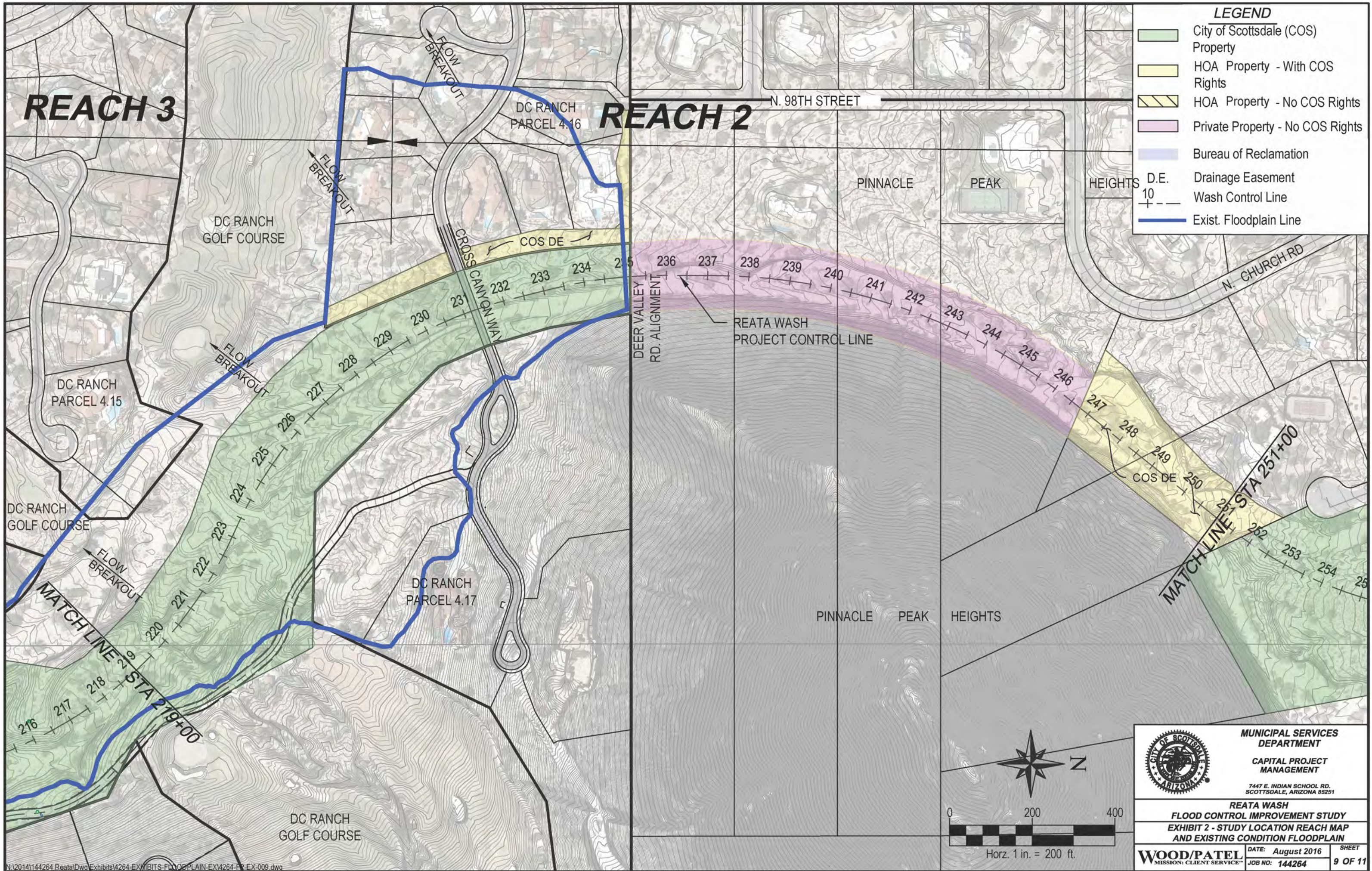
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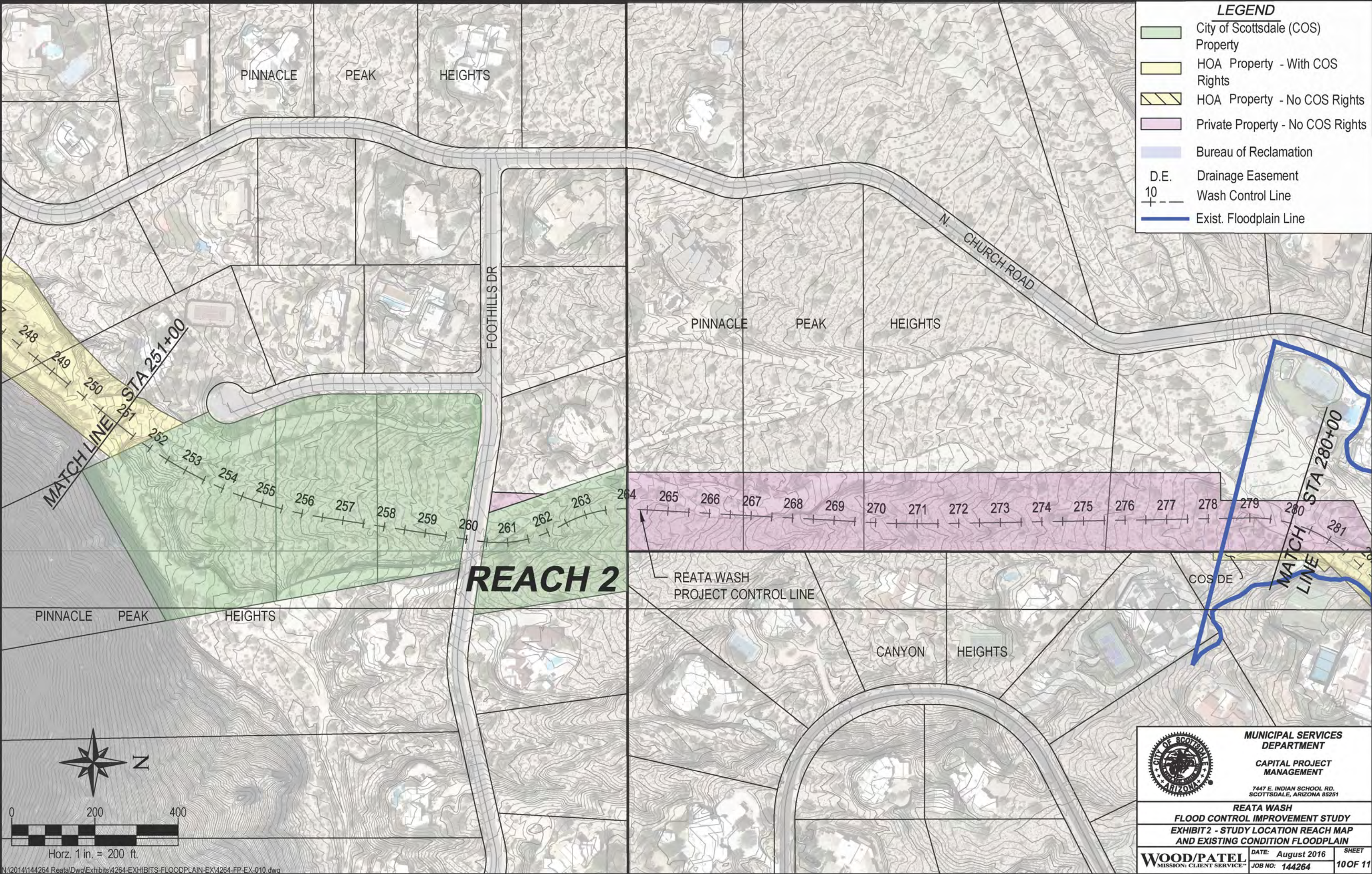
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	JOB NO: 144264	











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. 10' Wash Control Line
- Exist. Floodplain Line



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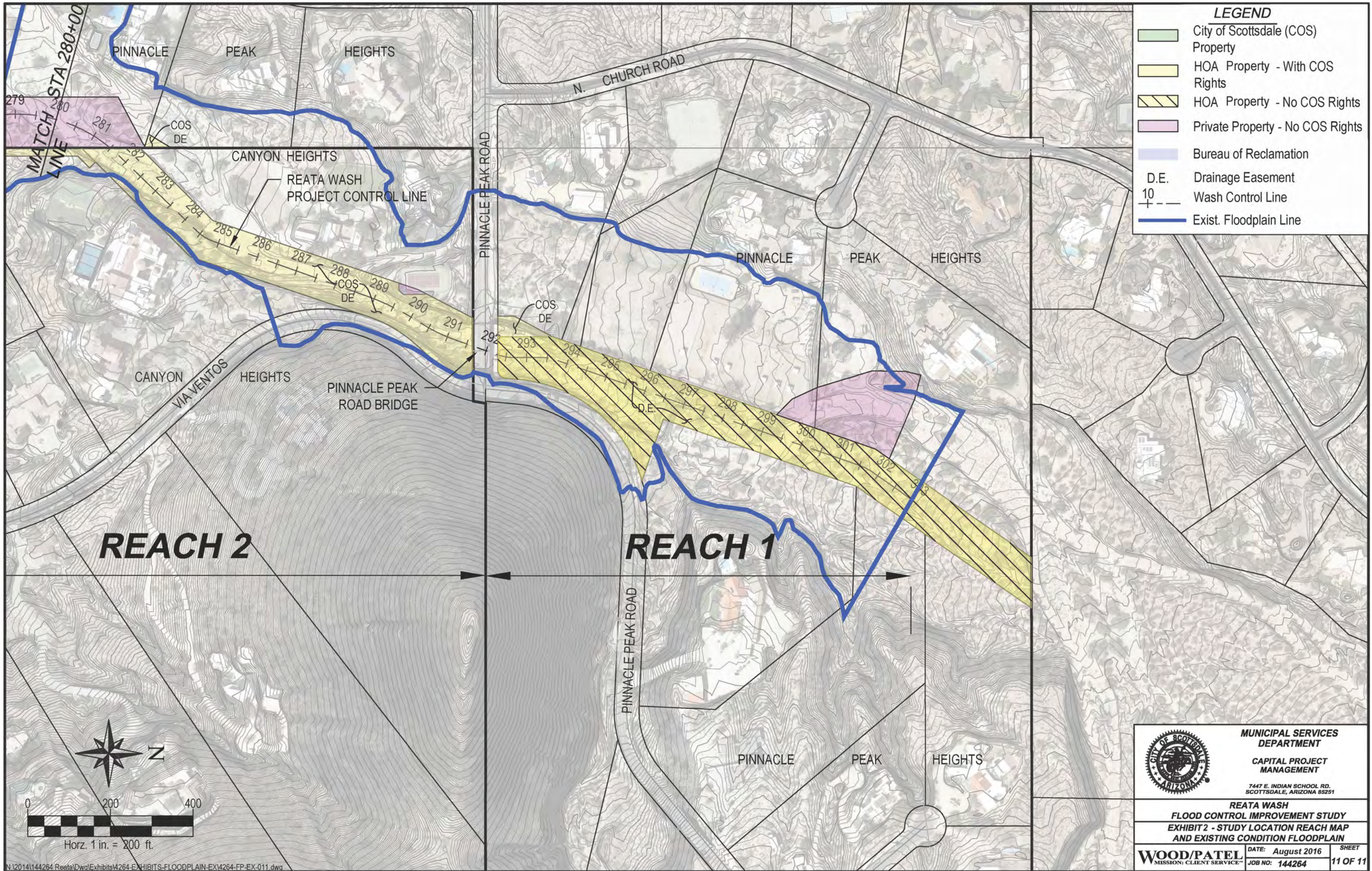
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SHEET
10 OF 11





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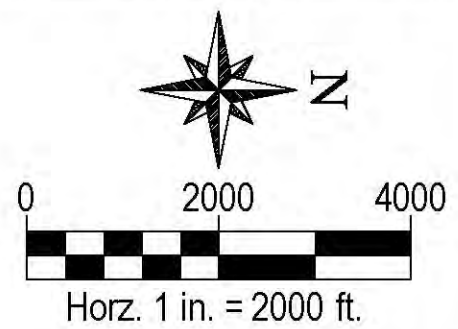
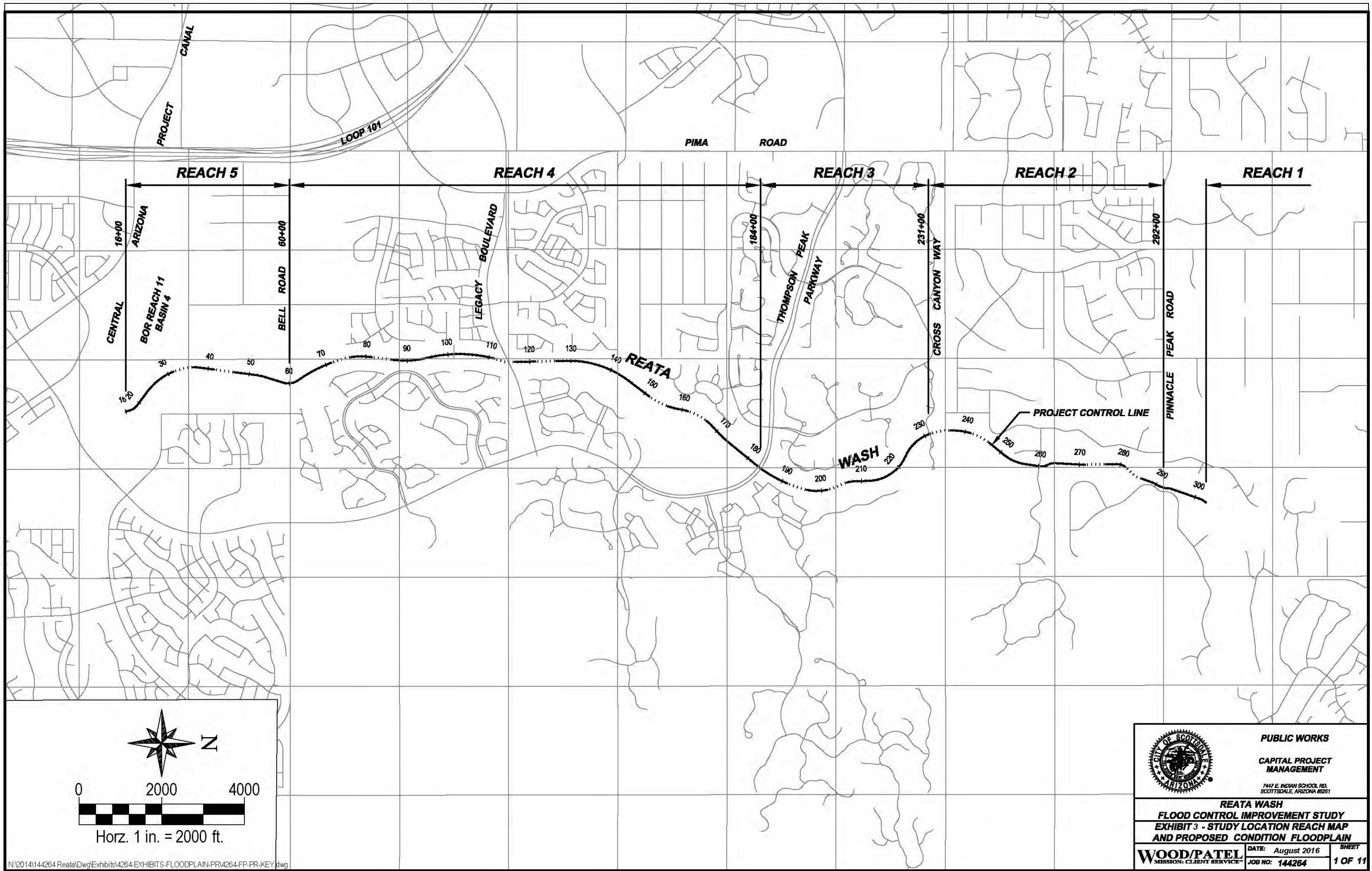
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SHEET
11 OF 11

EXHIBIT 3

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



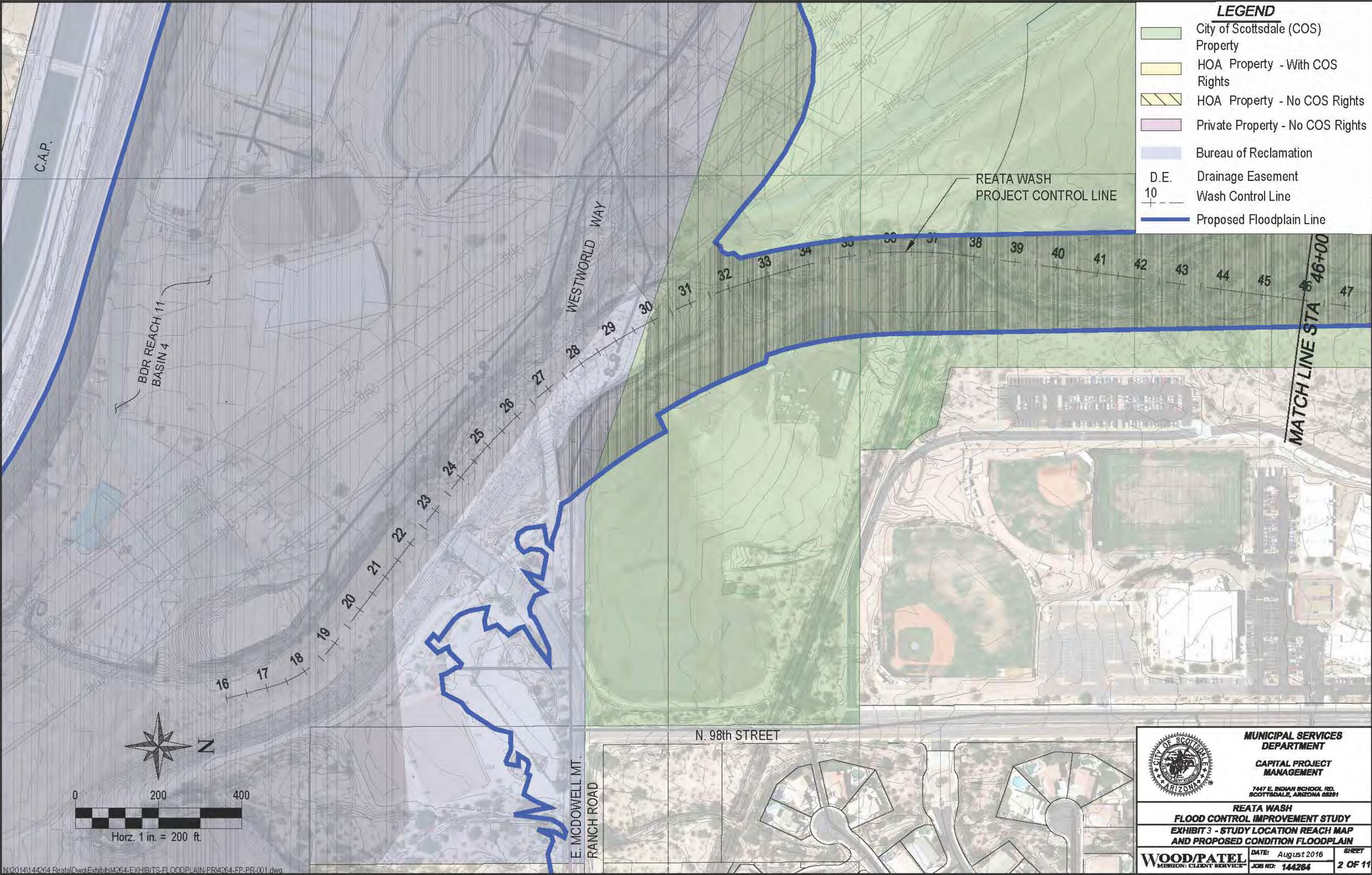
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	JOB NO: 144264	1 OF 11





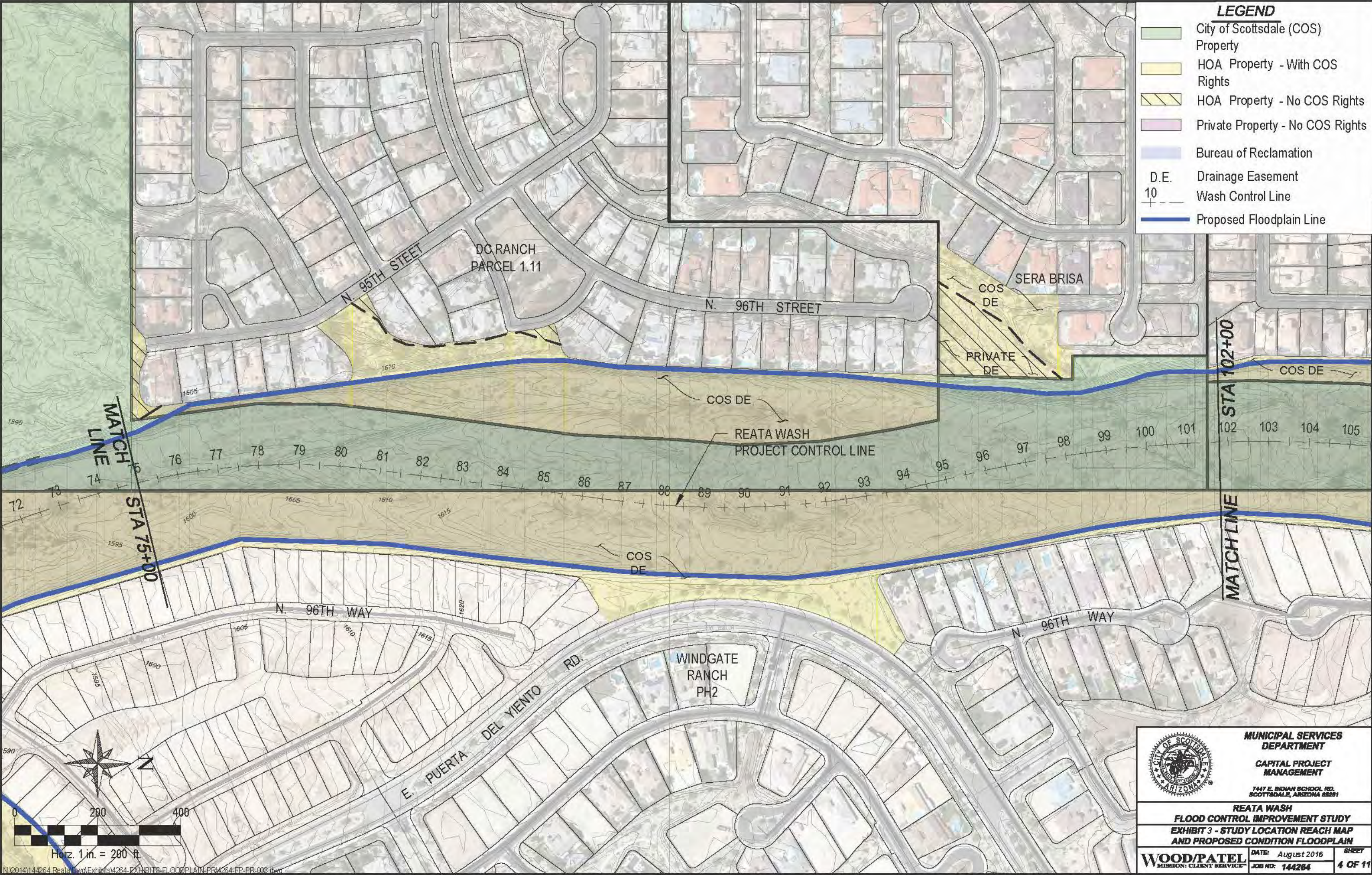
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WOODPATEL
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DATE: August 2016
JOB NO: 144264

SHEET
2 OF 11



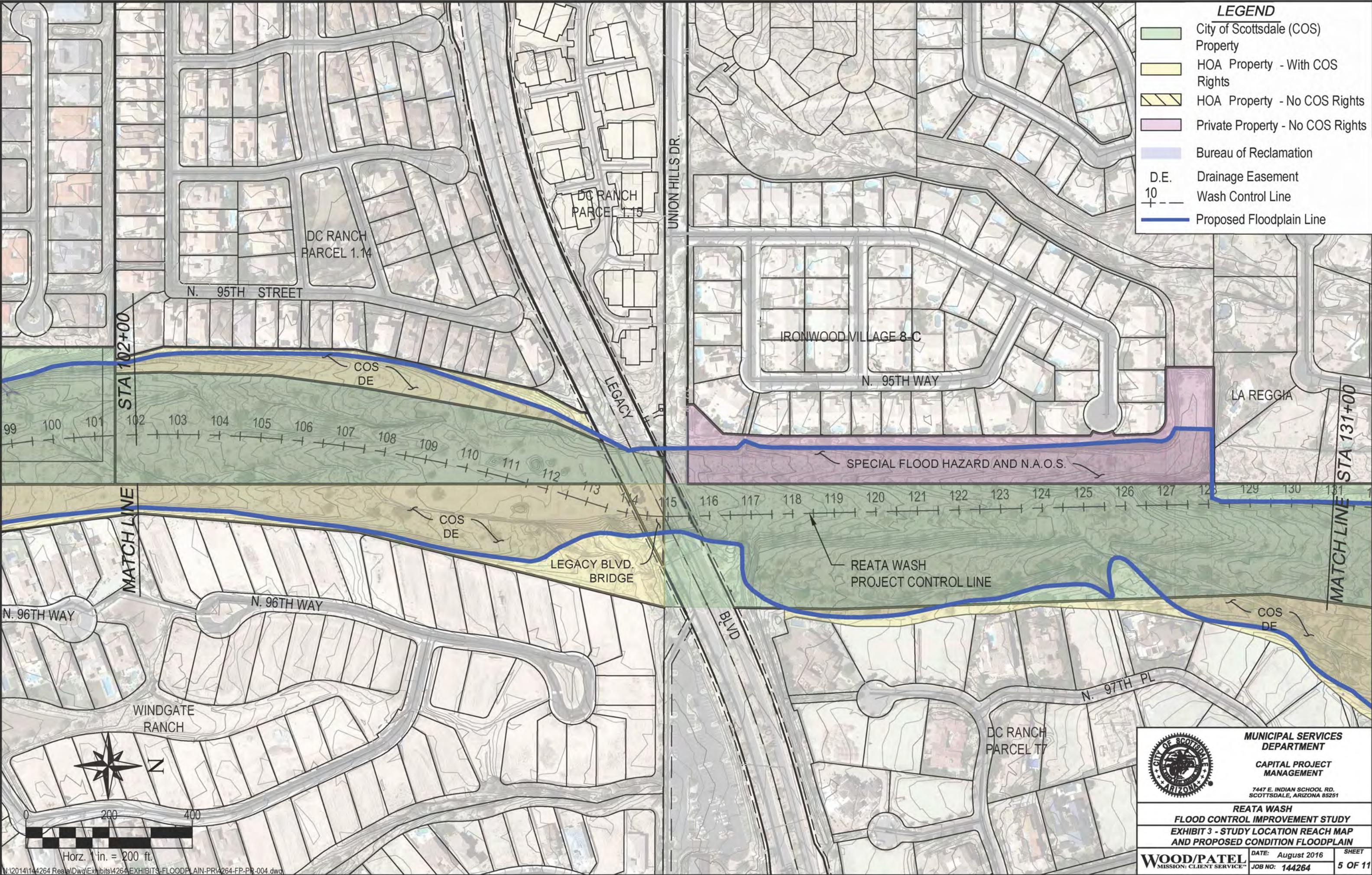
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WOOD/PATEL DATE: August 2016 SHEET
 MISSION: CLIENT SERVICE JOB NO: 144264 4 OF 11



LEGEND

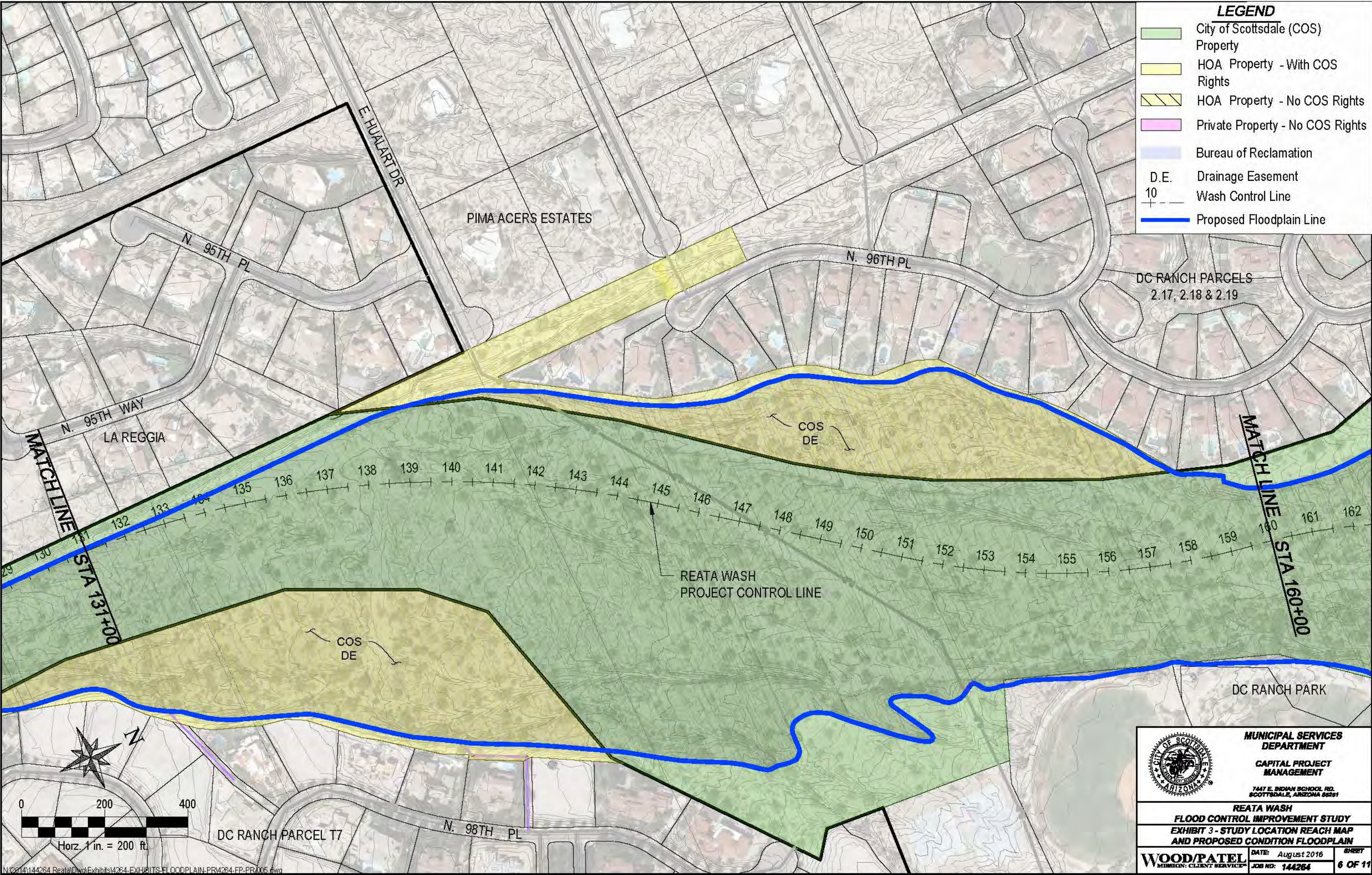
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WOOD/PATEL MISSION: CLIENT SERVICE™	DATE: August 2016	SHEET 5 OF 11
	JOB NO: 144264	

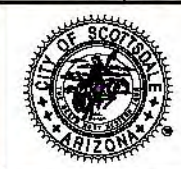


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DC RANCH PARCELS
2.17, 2.18 & 2.19

DC RANCH PARK

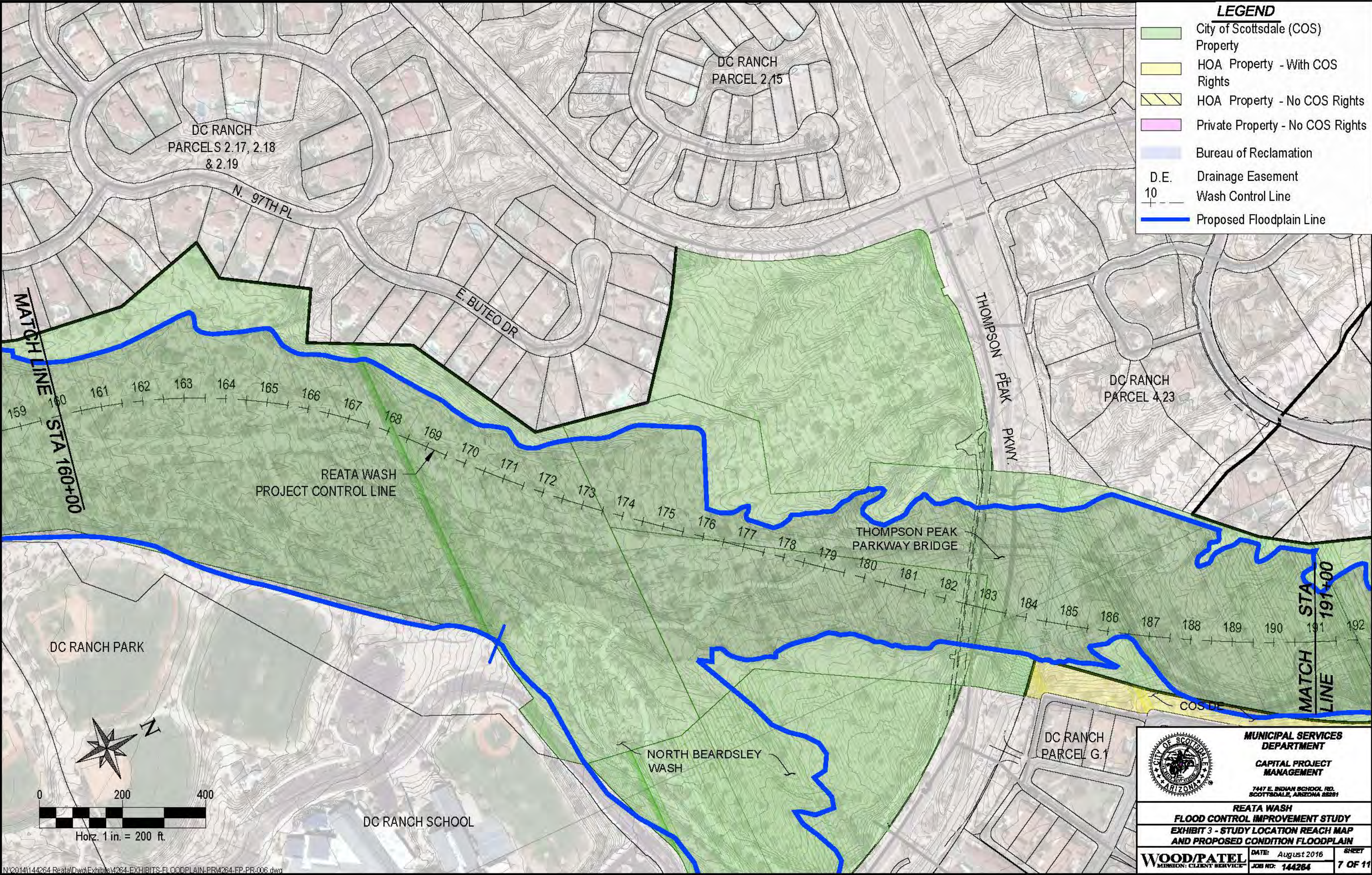


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**REATA WASH
FLOOD CONTROL IMPROVEMENT STUDY
EXHIBIT 3 - STUDY LOCATION REACH MAP
AND PROPOSED CONDITION FLOODPLAIN**



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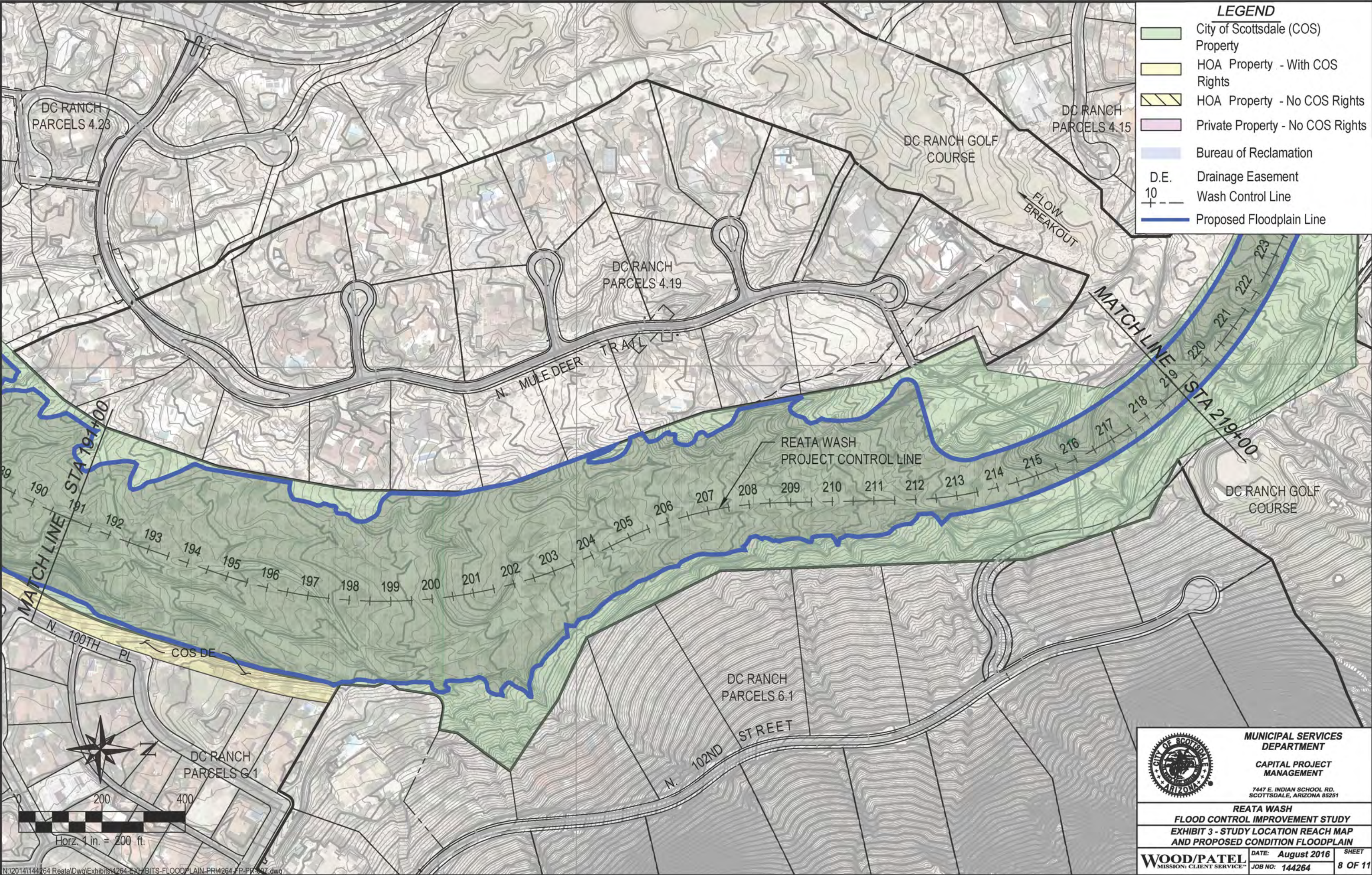
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REATA WASH

FLOOD CONTROL IMPROVEMENT STUDY

EXHIBIT 3 - STUDY LOCATION REACH MAP AND PROPOSED CONDITION FLOODPLAIN

WOODPATEL MISSION: CLIENT SERVICE	DATE: August 2016	SHEET 7 OF 11
	JOB NO: 144264	



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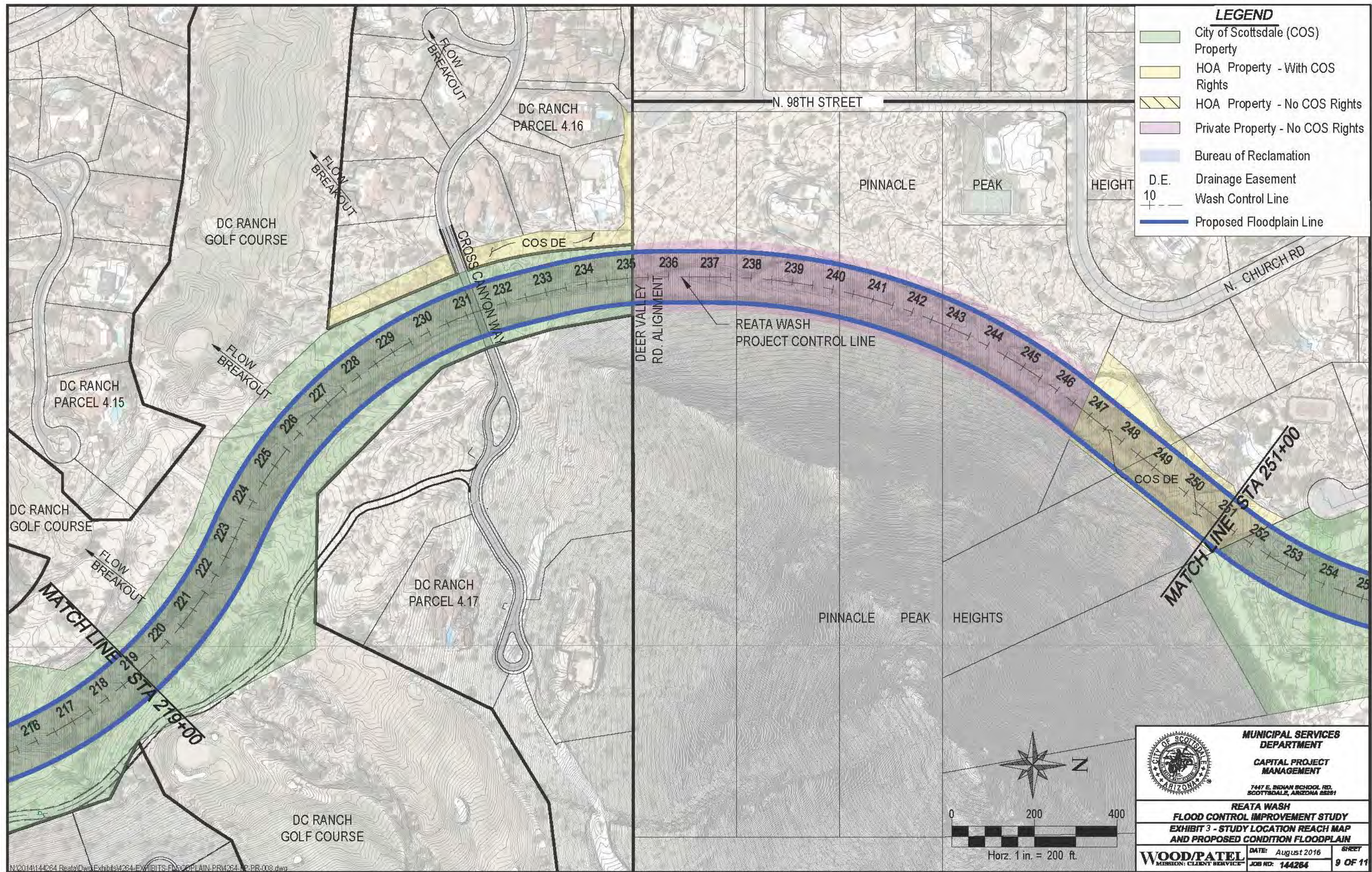
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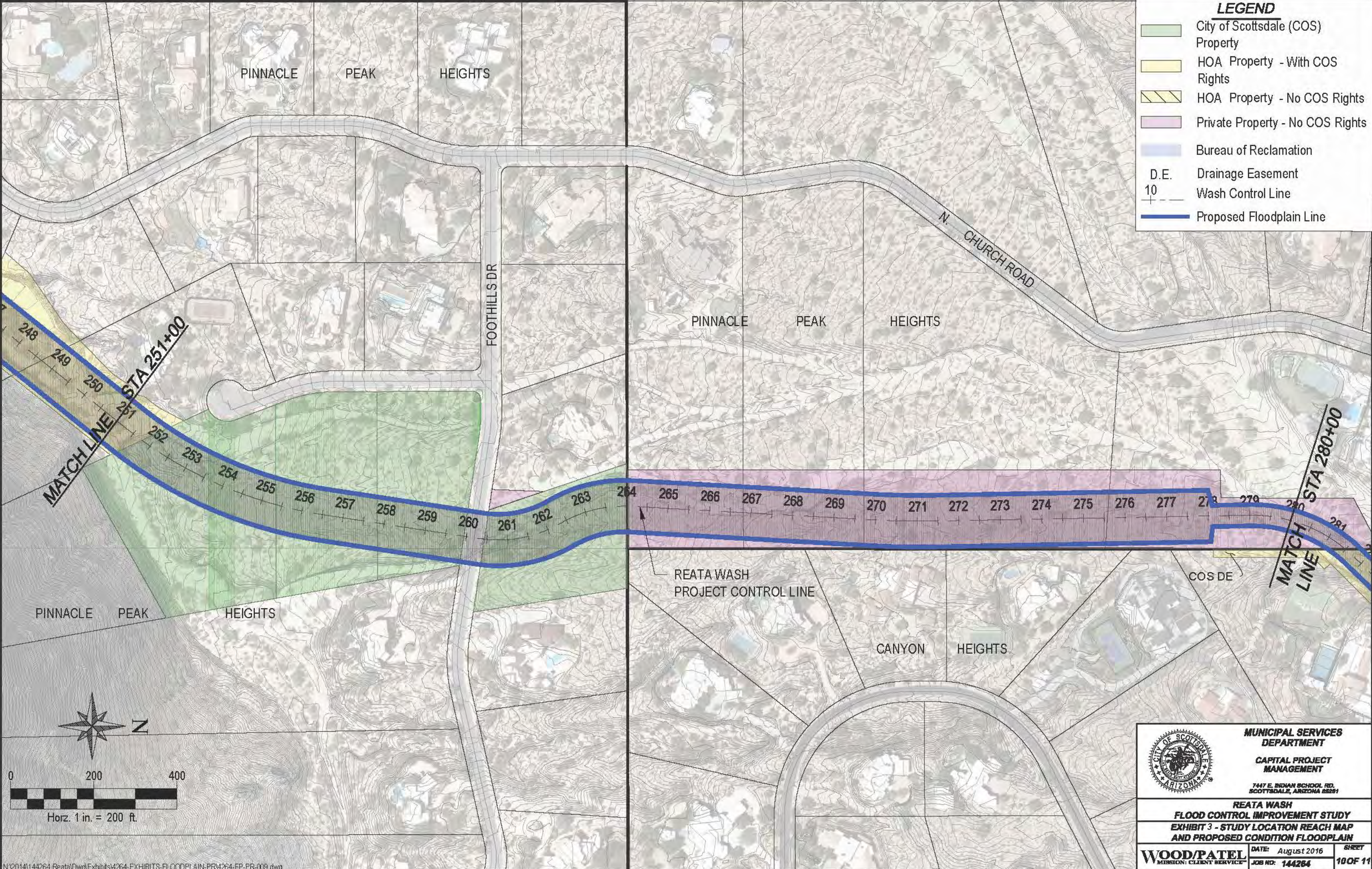


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DATE: **August 2016**
JOB NO: **144264**

SHEET
8 OF 11





LEGEND

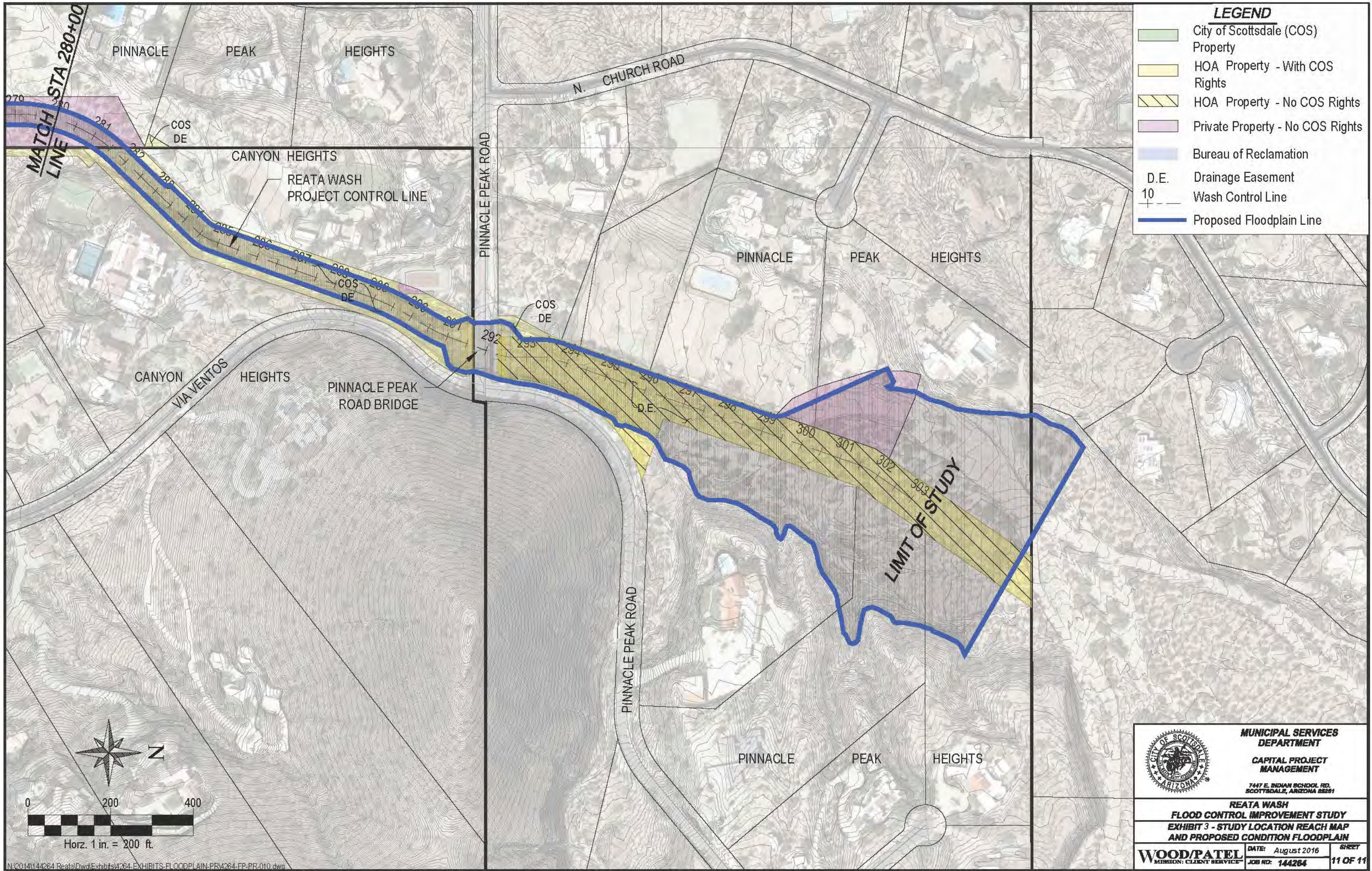
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CAPITAL PROJECT MANAGEMENT
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SCOTTSDALE, ARIZONA 85261

REATA WASH
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EXHIBIT 3 - STUDY LOCATION REACH MAP
AND PROPOSED CONDITION FLOODPLAIN

WOODPATEL <small>MISSION: CLIENT SERVICE</small>	DATE: August 2016	SHEET
	JOB NO: 144264	100 OF 11



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**MUNICIPAL SERVICES
DEPARTMENT**

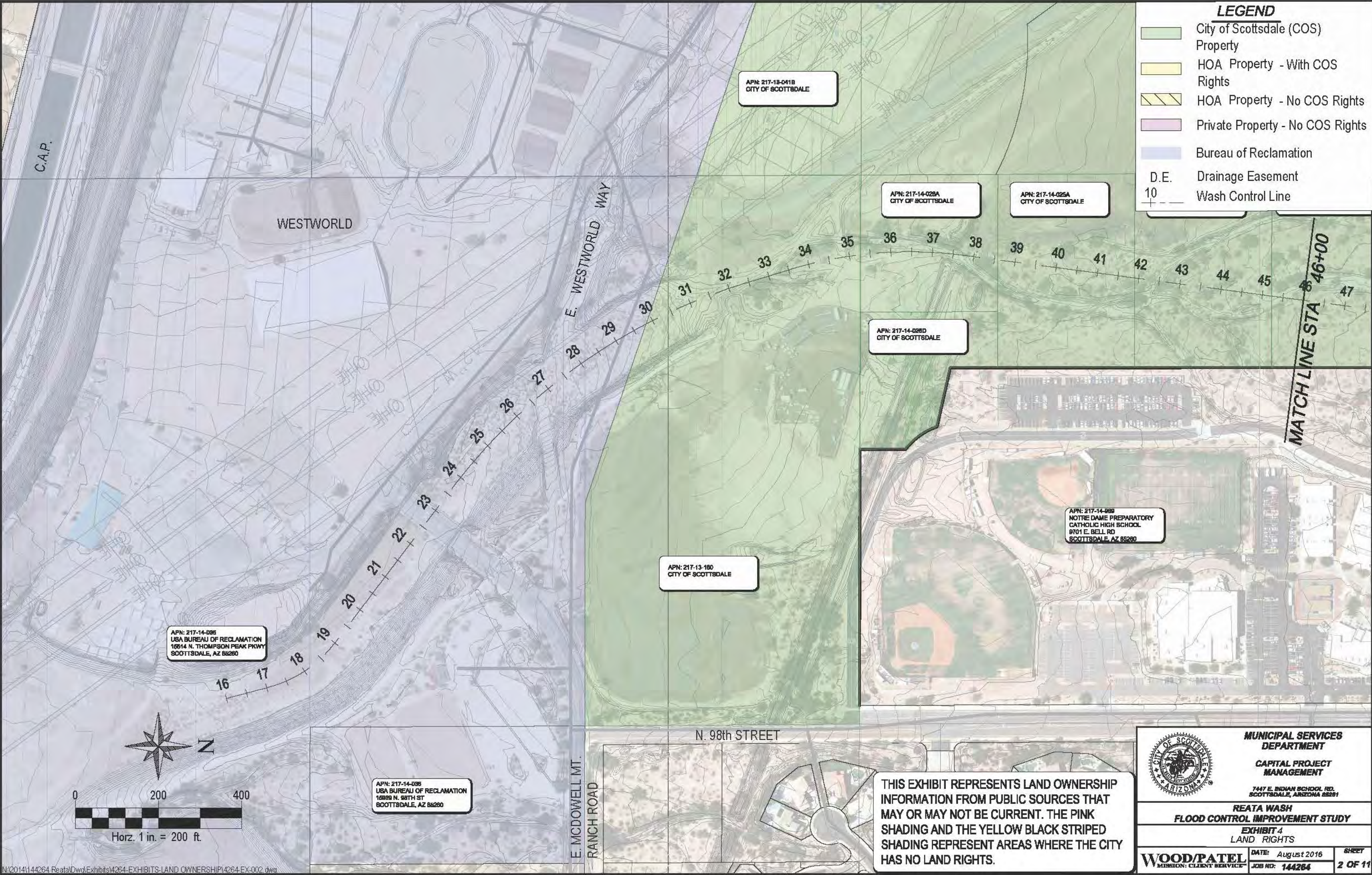
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MANAGEMENT**

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SCOTTSDALE, ARIZONA 85261

**REATA WASH
FLOOD CONTROL IMPROVEMENT STUDY**

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

EXHIBIT 4
LAND RIGHTS



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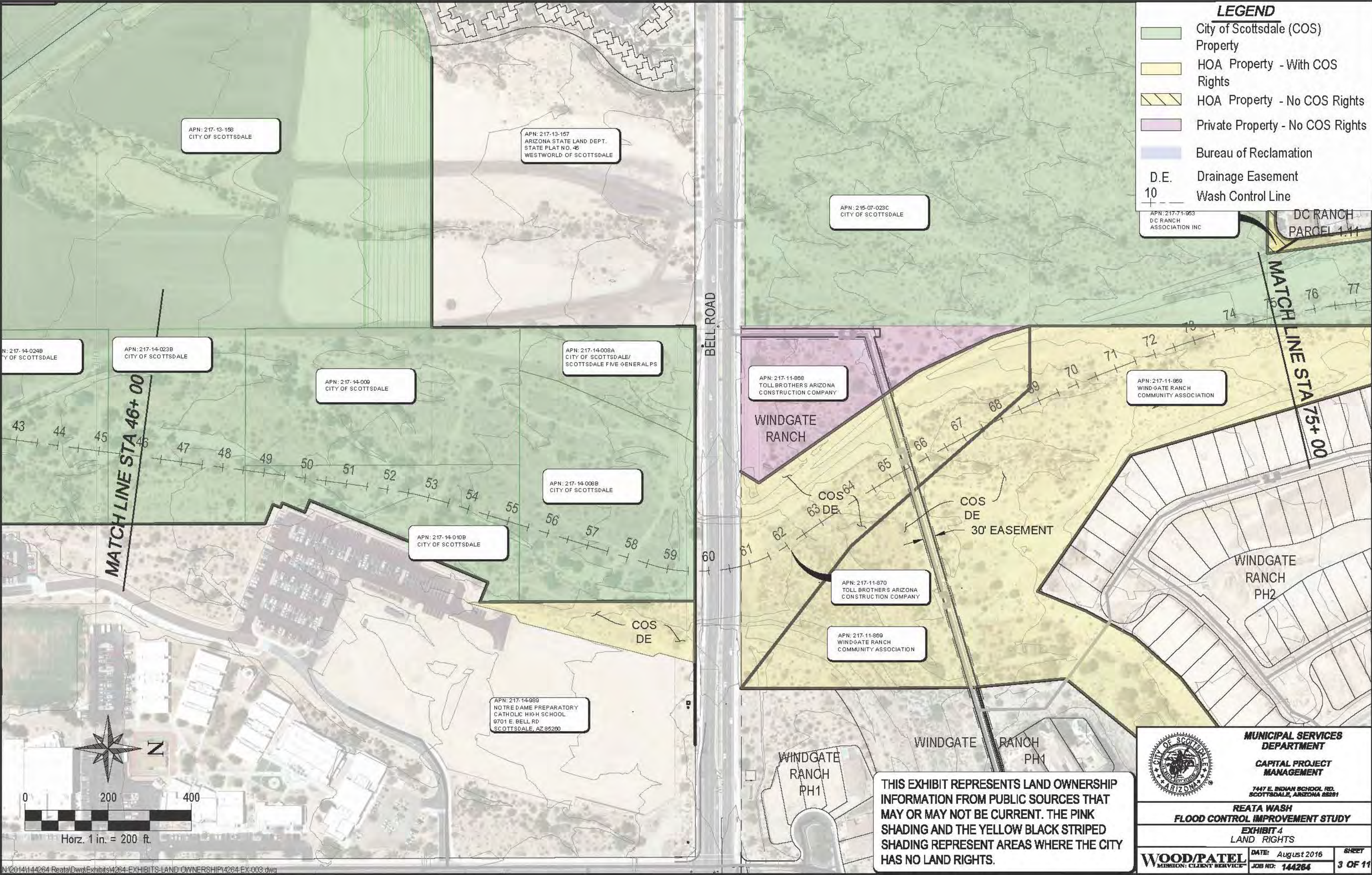
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DEPARTMENT**

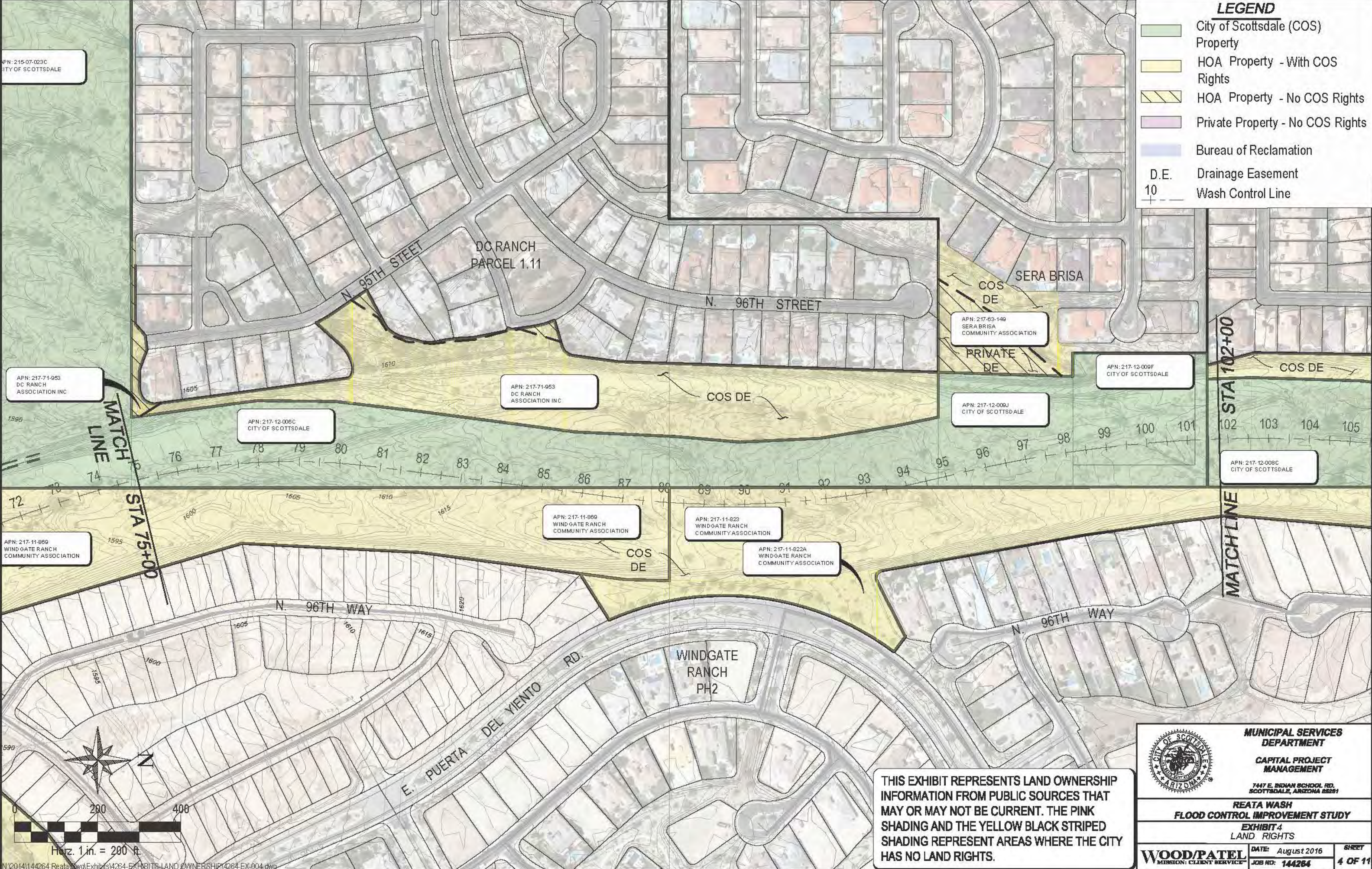
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**REATA WASH
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**EXHIBIT 4
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THIS EXHIBIT REPRESENTS LAND OWNERSHIP INFORMATION FROM PUBLIC SOURCES THAT MAY OR MAY NOT BE CURRENT. THE PINK SHADING AND THE YELLOW BLACK STRIPED SHADING REPRESENT AREAS WHERE THE CITY HAS NO LAND RIGHTS.



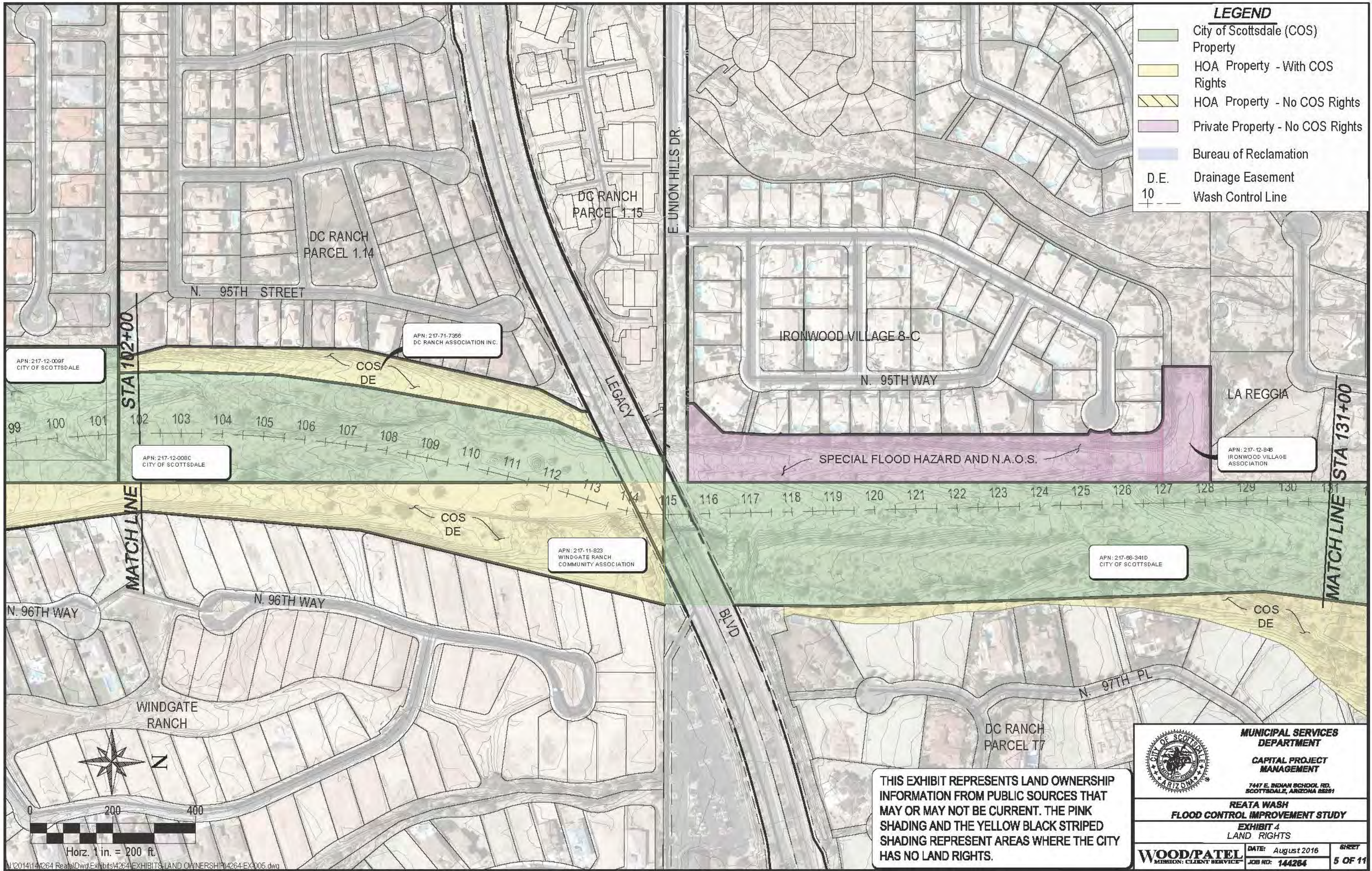
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SCOTTSDALE, ARIZONA 85261

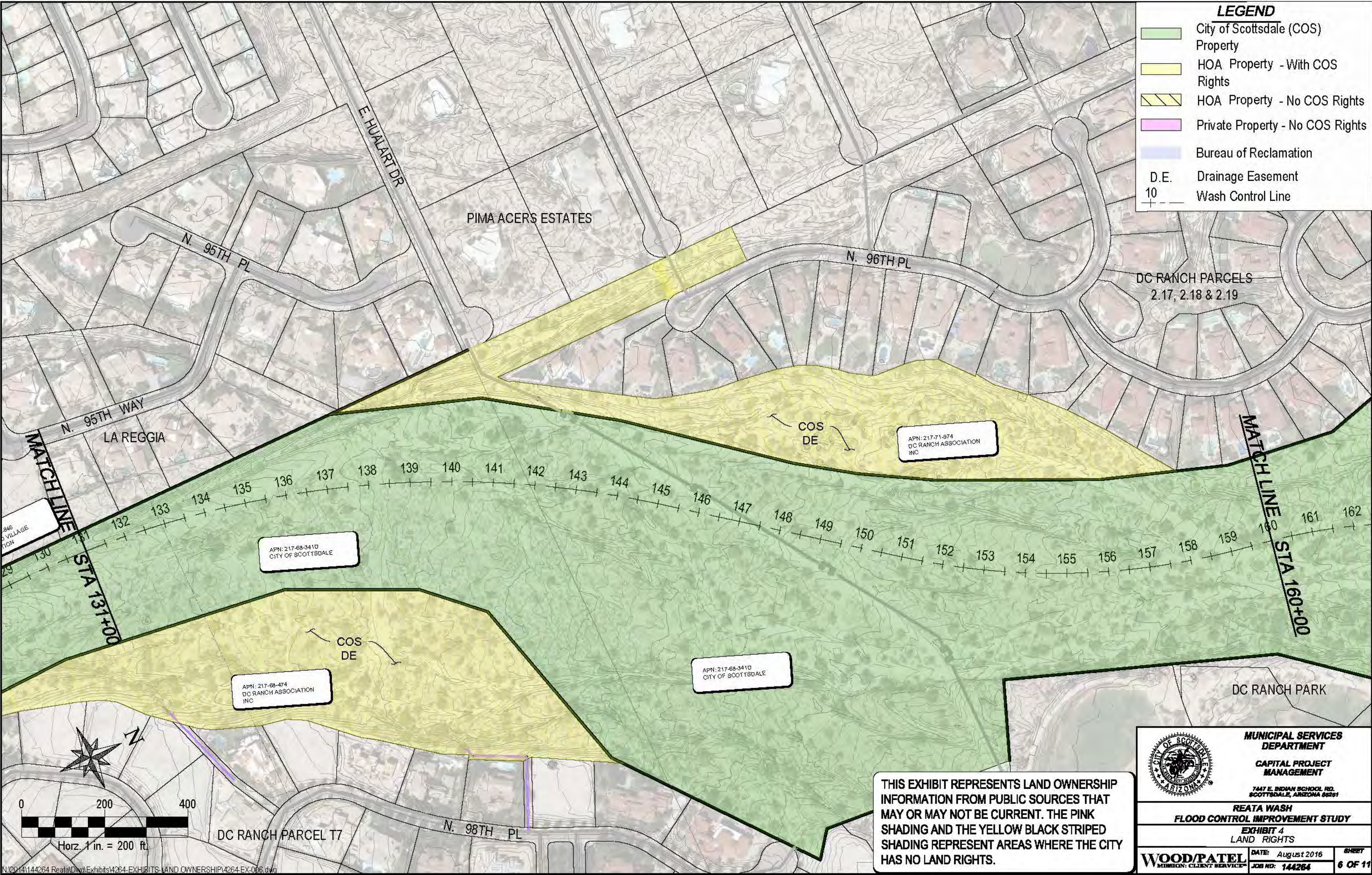
REATA WASH
FLOOD CONTROL IMPROVEMENT STUDY
EXHIBIT 4
LAND RIGHTS

WOOD/PATEL
MISSION: CLIENT SERVICE

DATE: August 2016
JOB NO: 144264

SHEET
4 OF 11





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CAPITAL PROJECT MANAGEMENT
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SCOTTSDALE, ARIZONA 86261

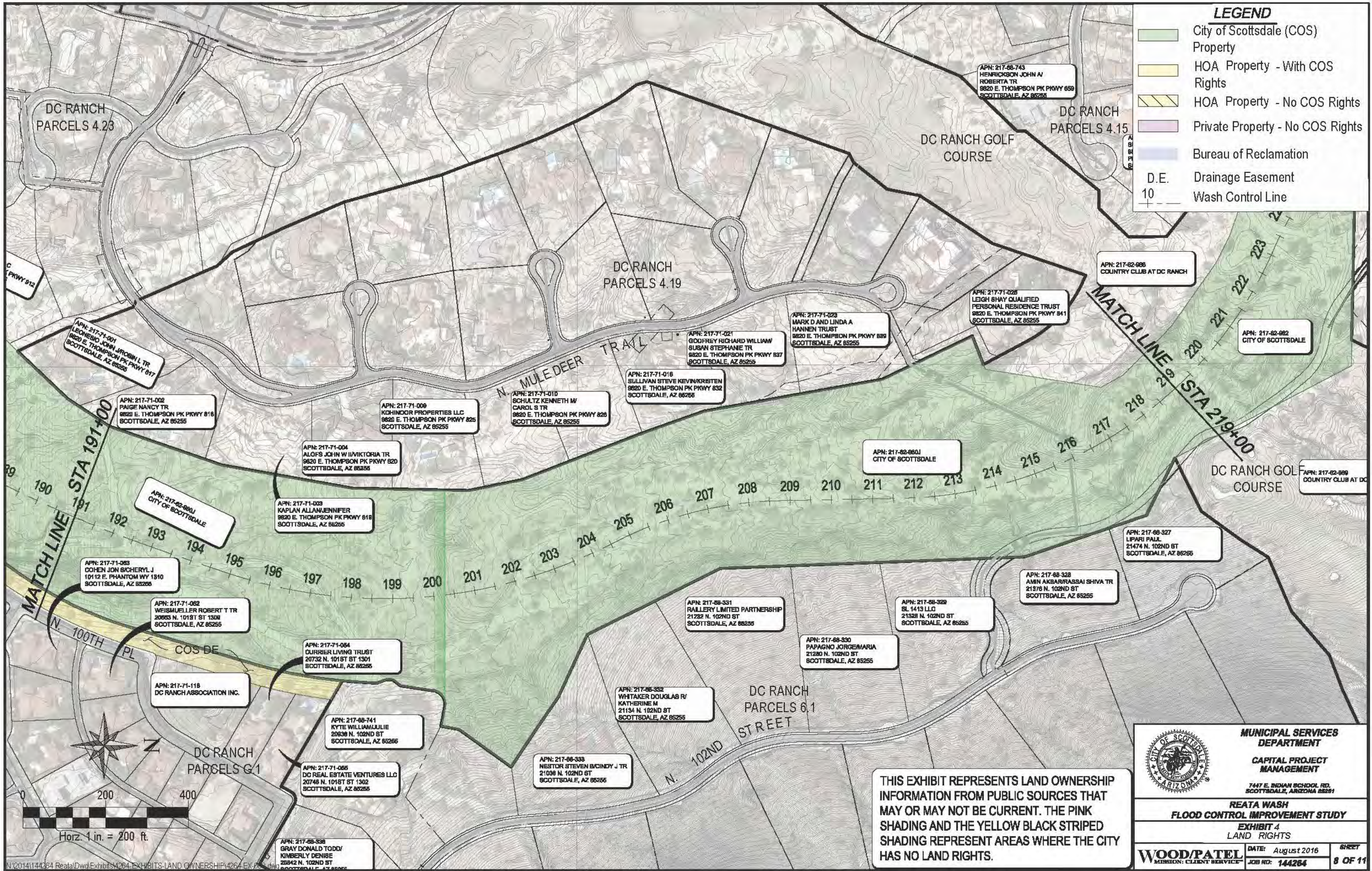
REATA WASH
FLOOD CONTROL IMPROVEMENT STUDY
EXHIBIT 4
LAND RIGHTS


WOOD/PATEL
MISSION: CLIENT SERVICE

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SHEET
6 OF 11







MUNICIPAL SERVICES DEPARTMENT

CAPITAL PROJECT MANAGEMENT

7447 E. INDIAN SCHOOL RD.
SCOTTSDALE, ARIZONA 85251

REATA WASH

FLOOD CONTROL IMPROVEMENT STUDY

EXHIBIT 4

LAND RIGHTS

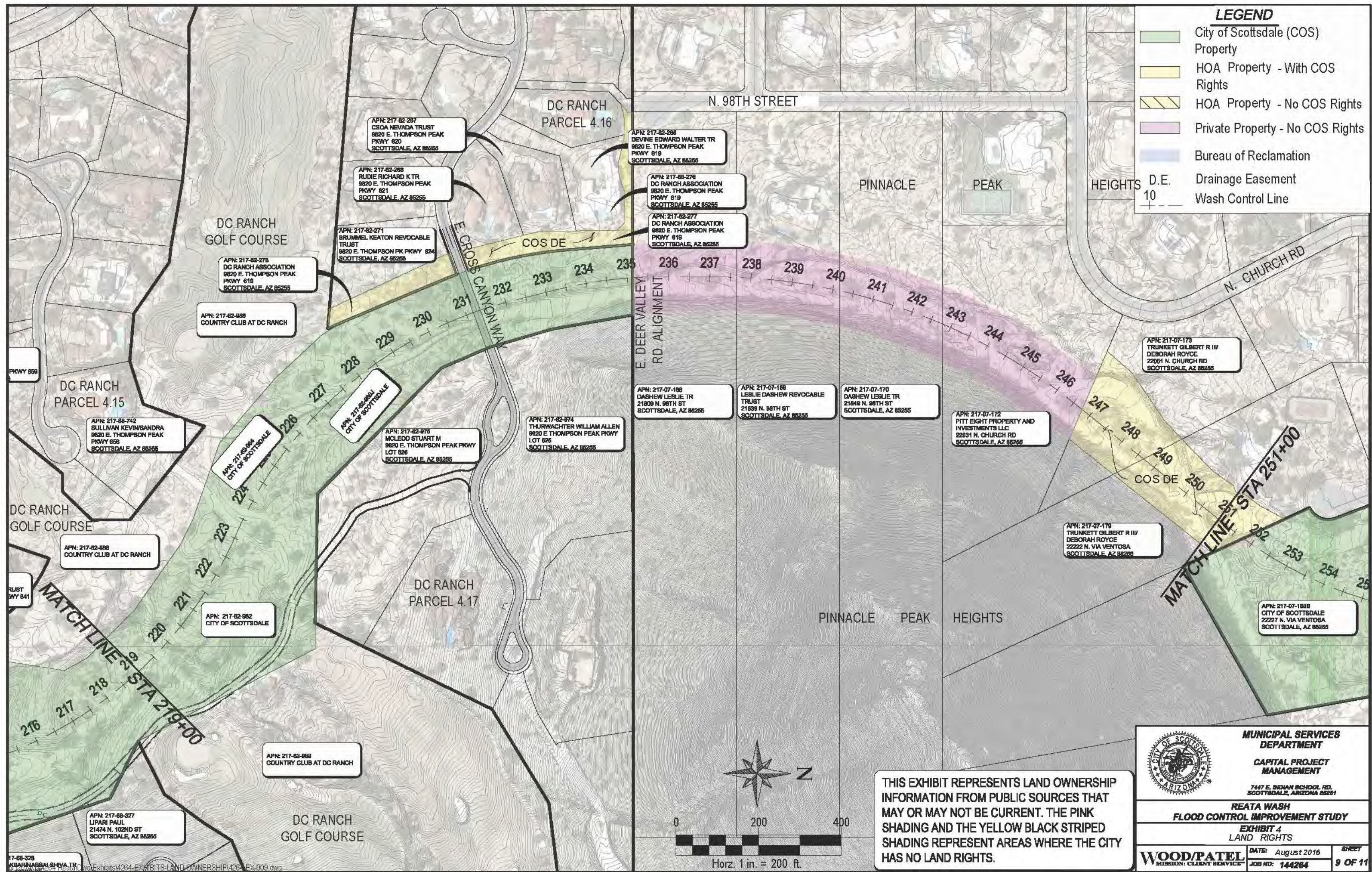
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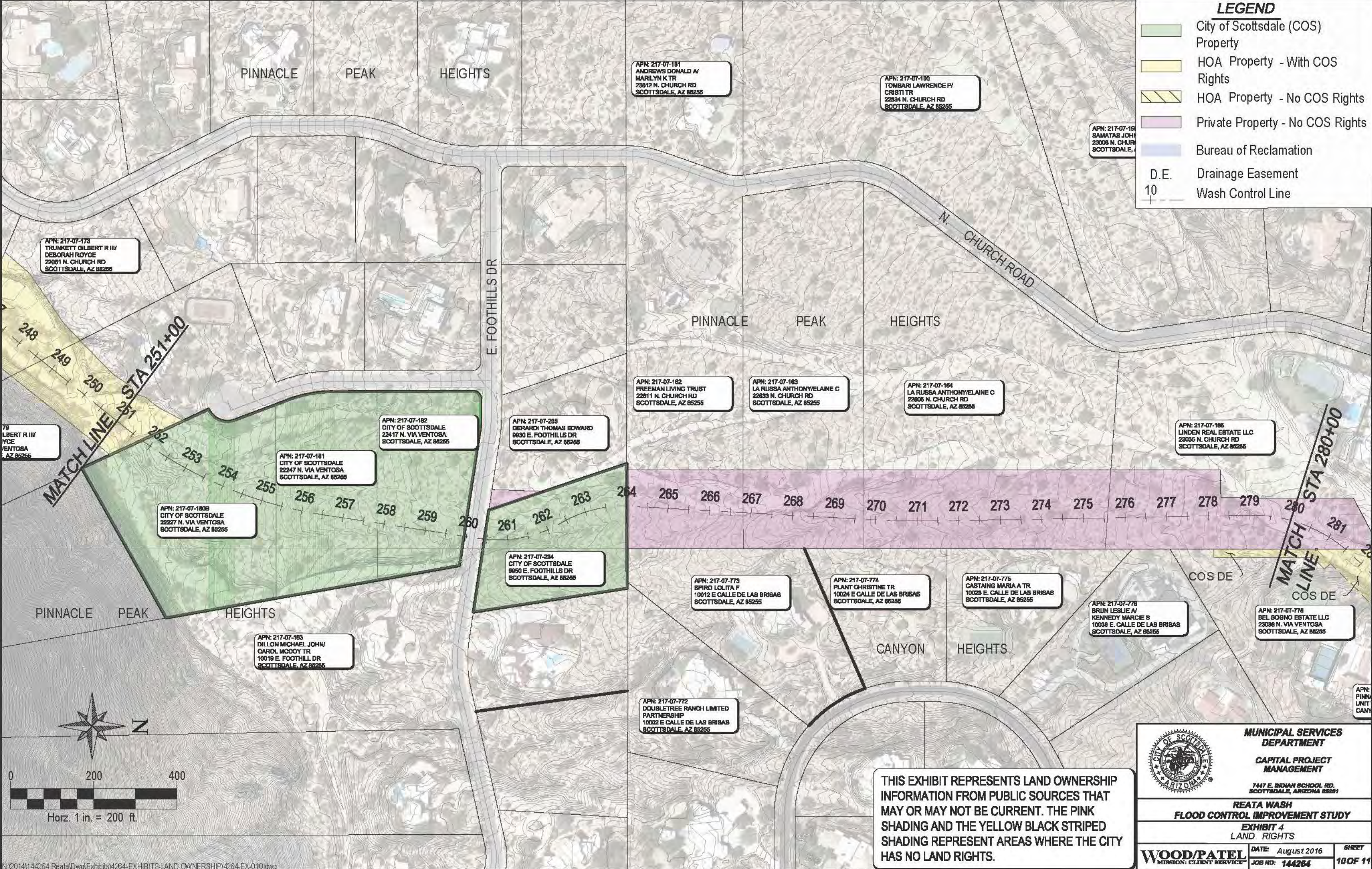
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SHEET 8 OF 11





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REATA WASH FLOOD CONTROL IMPROVEMENT STUDY
EXHIBIT 4 LAND RIGHTS

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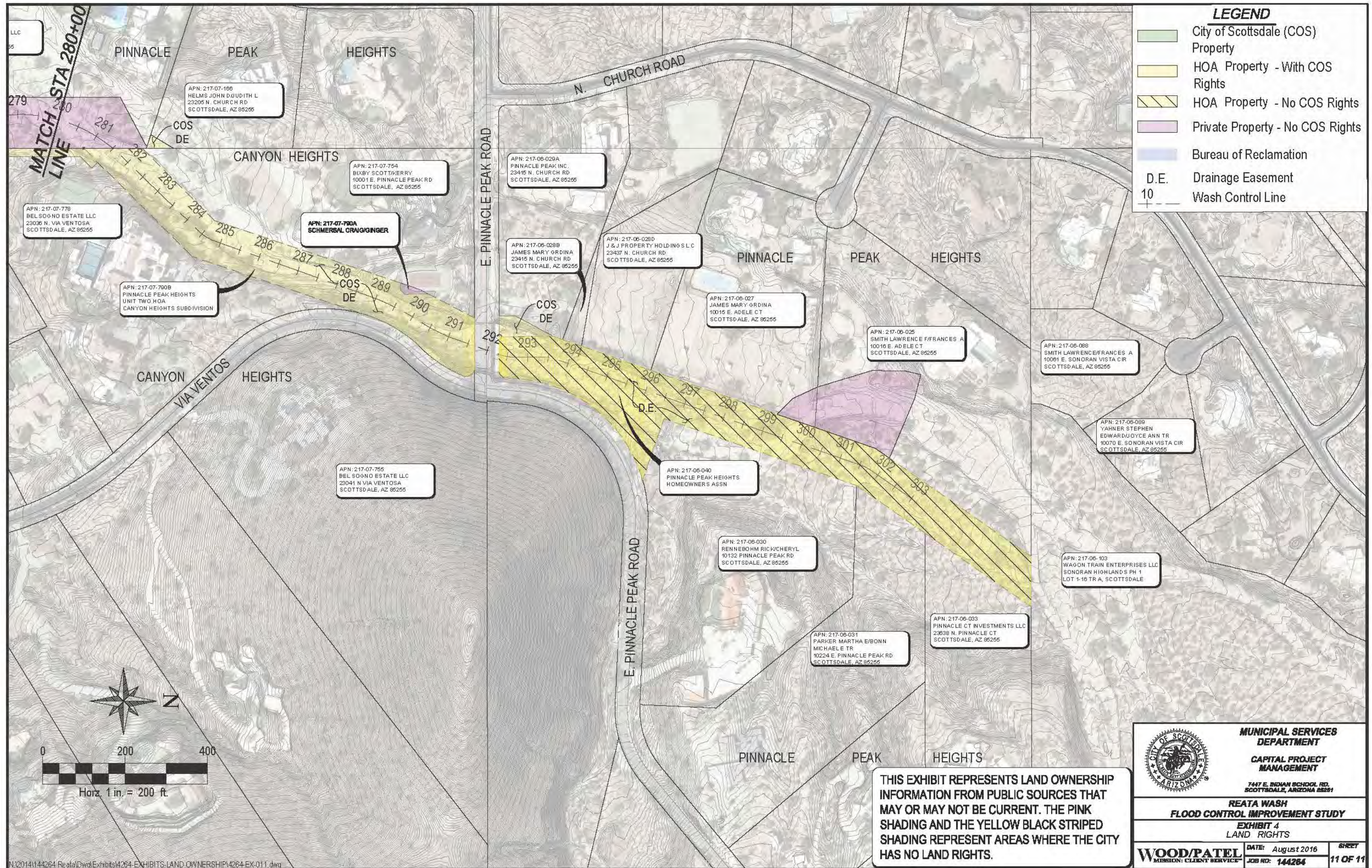
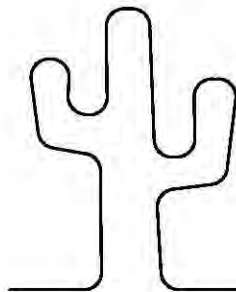


EXHIBIT 5
CONCEPT DESIGN PLAN (15%)



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 DESIGNER) _____ DATE _____

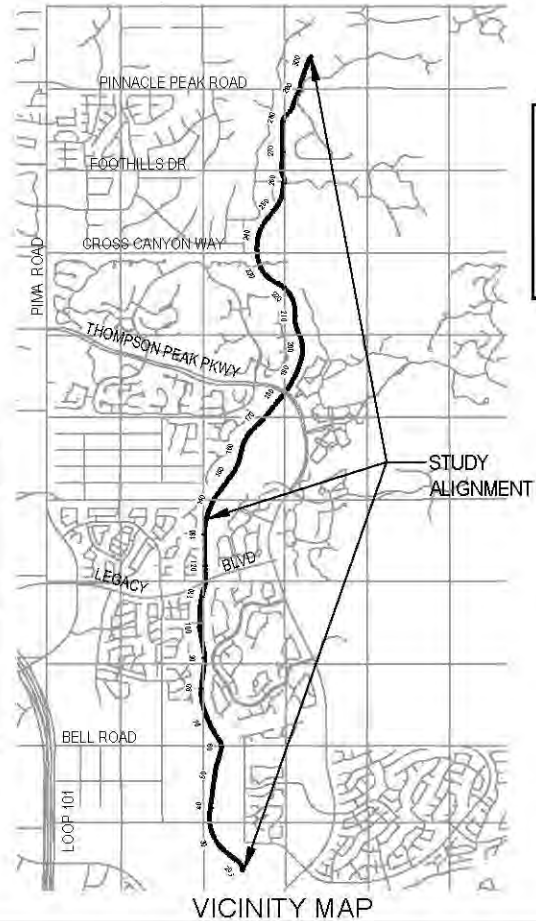
BUILDING OFFICIAL (OR DESIGNER) _____ DATE _____

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) 336-0000

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

Certificate of Approval to Construct		Maricopa County Environmental Services Department Water and Waste Management Division	
MCESD #			
Public Water System ID Number 0407- Project Description:		(and/or) Waste Water System ID Number 0437- Project Description:	
Project Location: Project Owner:			
<small>Permitted to AAD Title 18, Chapter 4, Article 12 or AAD Title 18, Chapter 4, Article 12, and/or Maricopa County Environmental Health Code Chapter 1 or 10. 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 engineered as-built plans, shall be submitted to this Department prior to approval of construction and startup. 2.) The approval to construct is valid 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: _____</small>			
CC:	MCESD FILE:	ADEQ	AZ. Corp. Commission



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)

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

DR/STAFF APPROVAL NO.

PLAN REVIEW NO.

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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 2006 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 VII, 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
EX FL	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

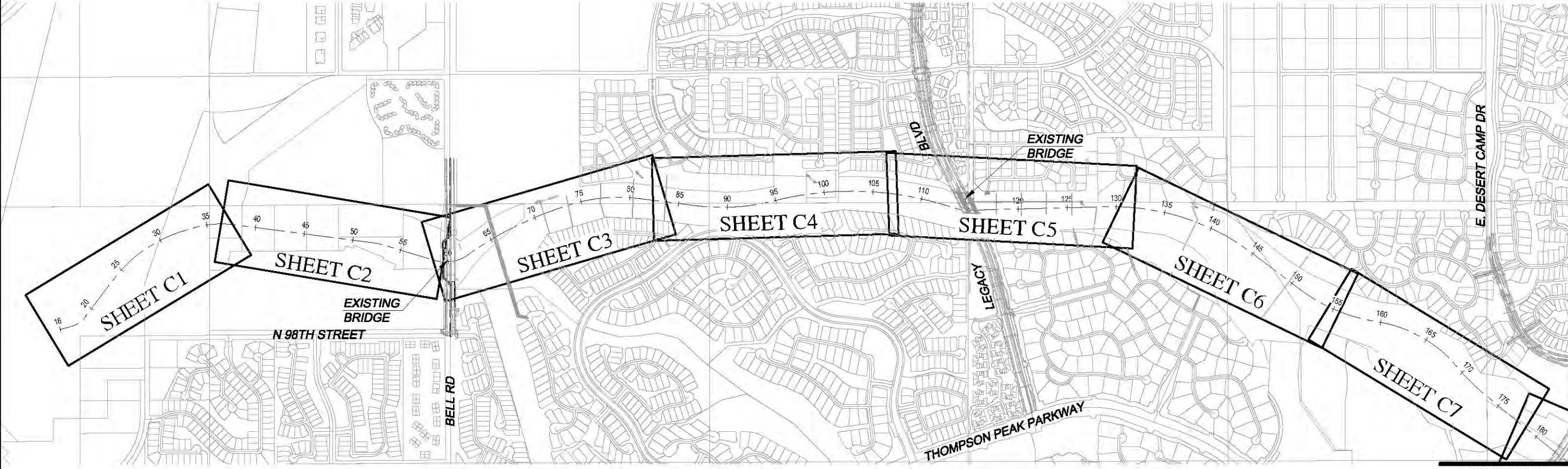
EXHIBIT 5
CONCEPT DESIGN PLANS (15%)

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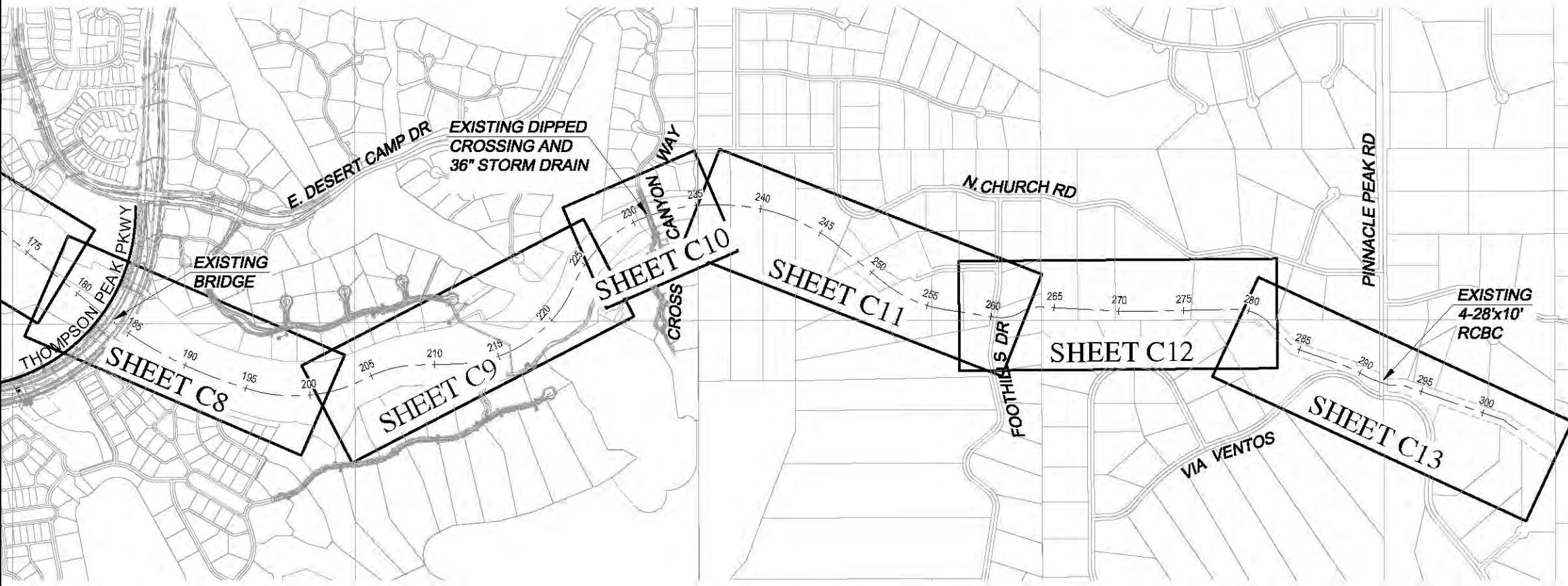


DATE	REVISION	BY
ENGINEER		
15% PRELIMINARY NOT FOR CONSTRUCTION		
 PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE GENERAL NOTES AND LEGEND		
PROJECT TITLE REATA WASH FLOOD CONTROL IMPROVEMENT STUDY		
SCALE	DESIGNED	DATE
N/A	August 2018	XXXX
VERT.	N/A	AS-BUILT XX/XX
PROJECT NO.		SHT.
14SQ011		G2
2 OF 19		

XX-XX

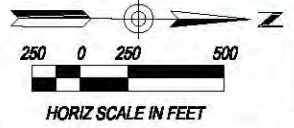


SEE BELOW
FOR CONTINUATION



**EXHIBIT 5
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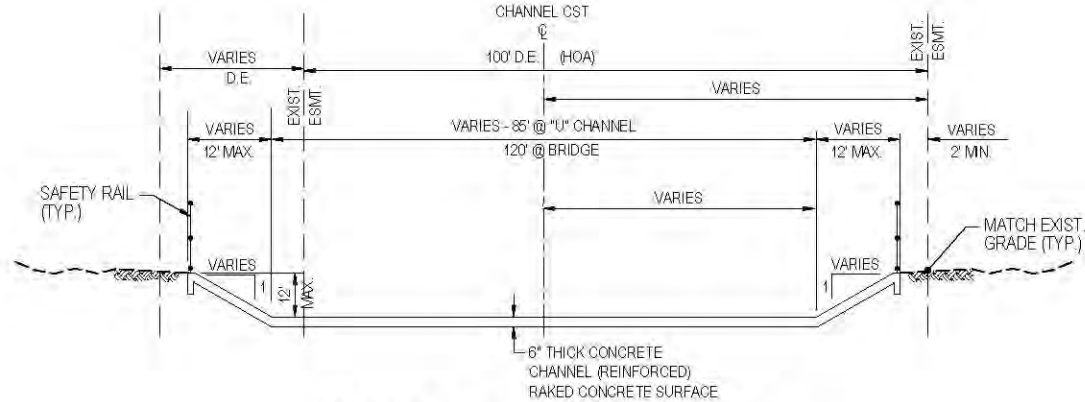
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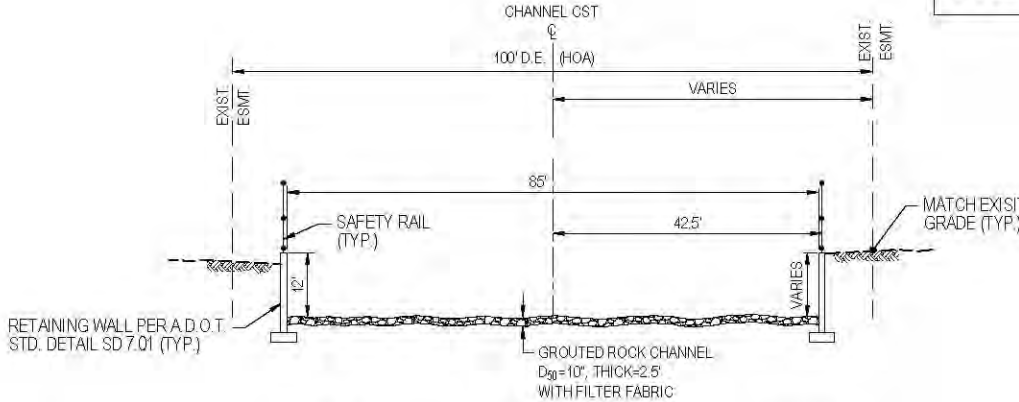
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PRELIMINARY NOT FOR CONSTRUCTION		
KEY MAP SHEET		
PROJECT TITLE REATA WASH FLOOD CONTROL IMPROVEMENT STUDY		
SCALE HORIZ 1" = 500'	DESIGNED DATE August 2016	BID NO. XXXX
VERT. N/A	DRAWN XX/XX	PROJECT NO. 1450011
		SHT. G3
		3 OF 19

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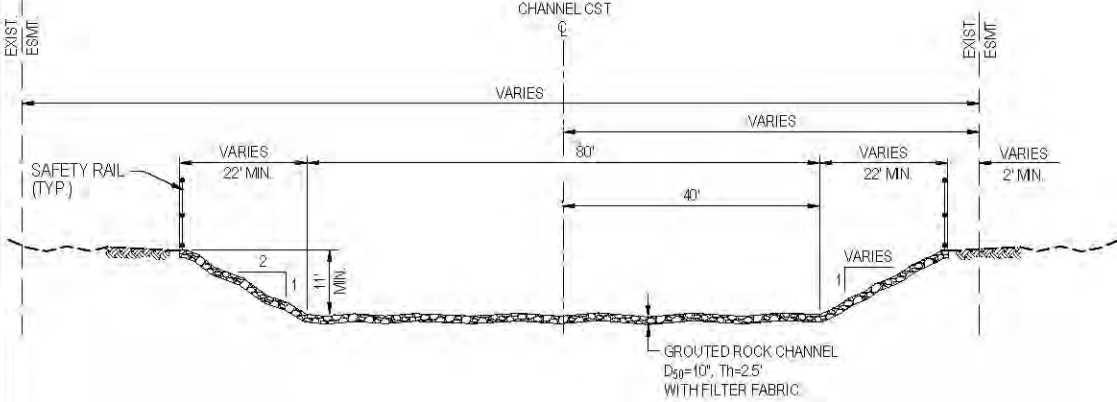


CONCRETE CHANNEL TRANSITION
STA 292+10 TO STA 293+00
(NOT TO SCALE)

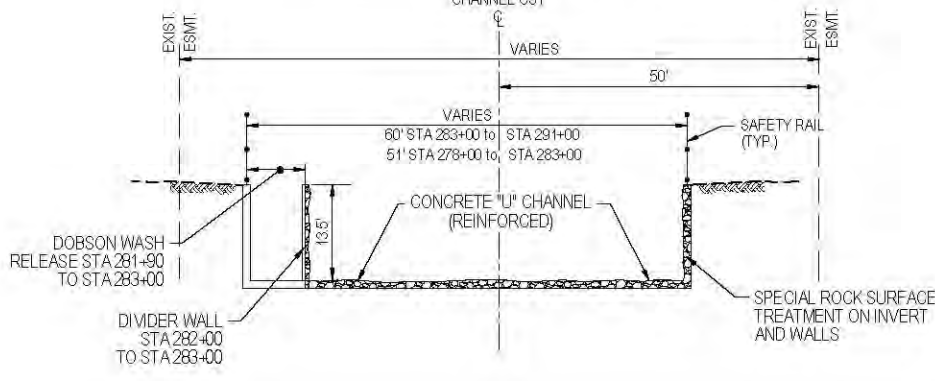


"U" CHANNEL CONCRETE WALL & GROUTED
ROCK INVERT
STA 293+00 TO STA 299+00
(NOT TO SCALE)

REATA WASH – REACH 1
TYPICAL SECTIONS

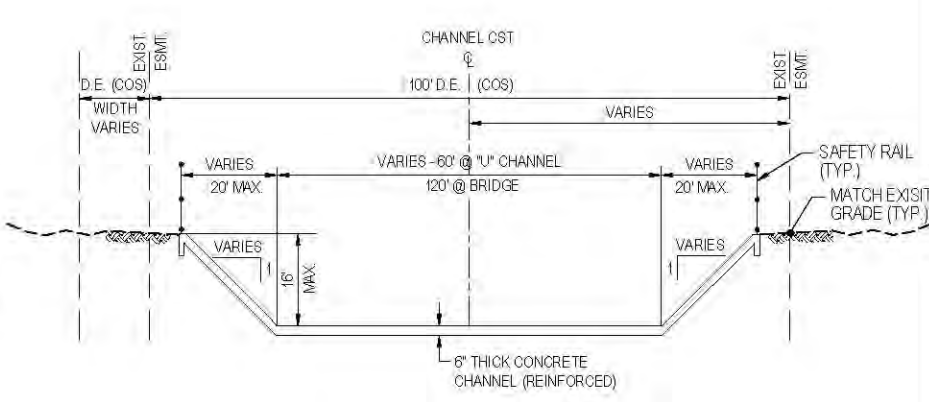


GROUTED ROCK CHANNEL
STA 231+00 TO STA 278+00
(NOT TO SCALE)



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

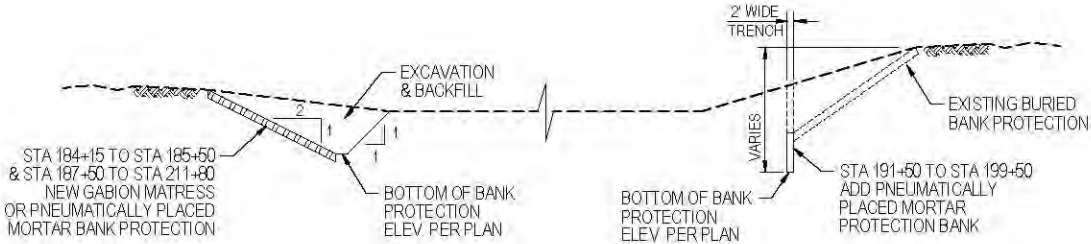
REATA WASH – REACH 2
TYPICAL SECTIONS



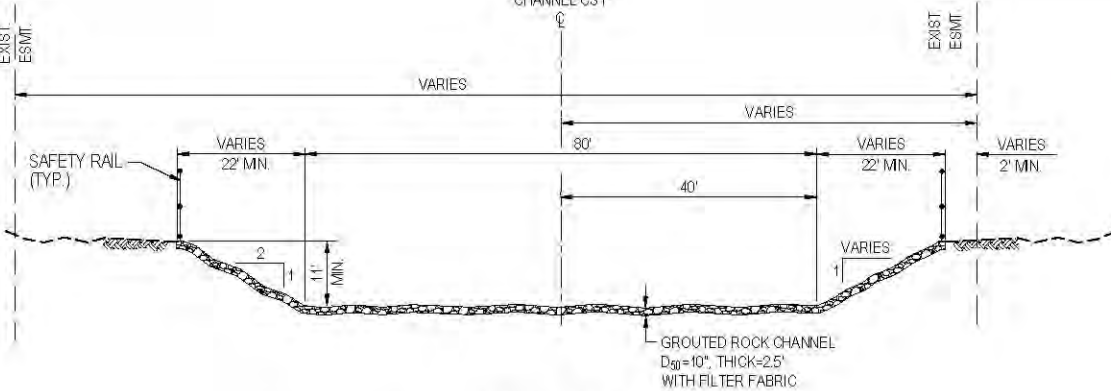
CONCRETE CHANNEL TRANSITION
STA 291+00 TO STA 291+65
(NOT TO SCALE)

EXHIBIT 5
CONCEPT DESIGN PLANS (15%)

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

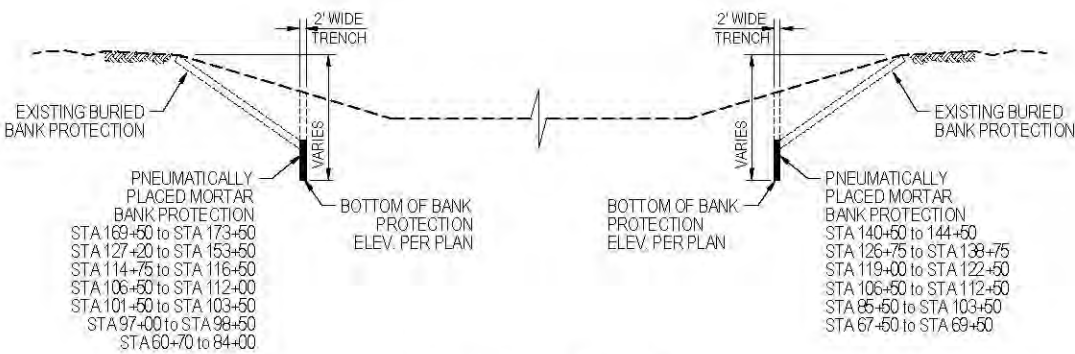


GROUTED ROCK CHANNEL
STA 213+00 TO STA 231+00
(NOT TO SCALE)

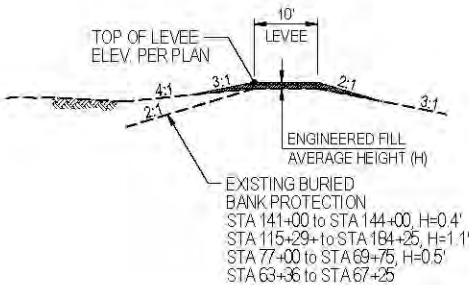
REATA WASH – REACH 3
TYPICAL SECTIONS

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PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 86261		
SHEET TITLE TYPICAL SECTIONS AND DETAILS		
PROJECT TITLE REATA WASH FLOOD CONTROL IMPROVEMENT STUDY		
SCALE	DATE August 2016	REV. NO. XXXX
HORIZ VERT	DESIGNED DRAWN	PROJECT NO. 14SQ011
		SHT. G4 4 OF 19

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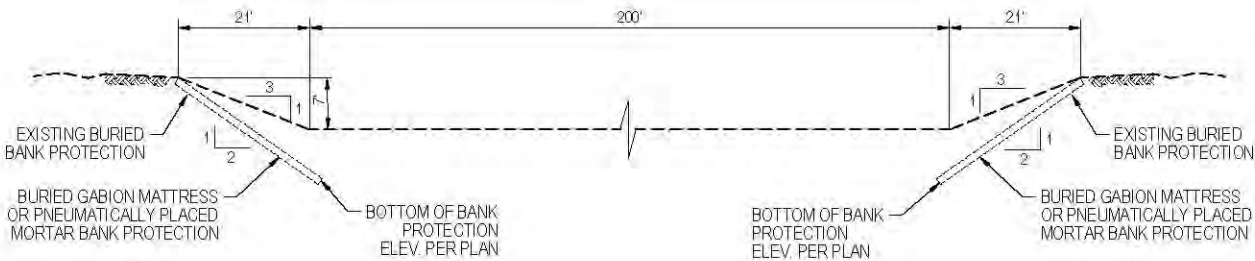


NATURAL CHANNEL
WITH BURIED BANK PROTECTION
STA 60+70 TO STA 184+15



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%)

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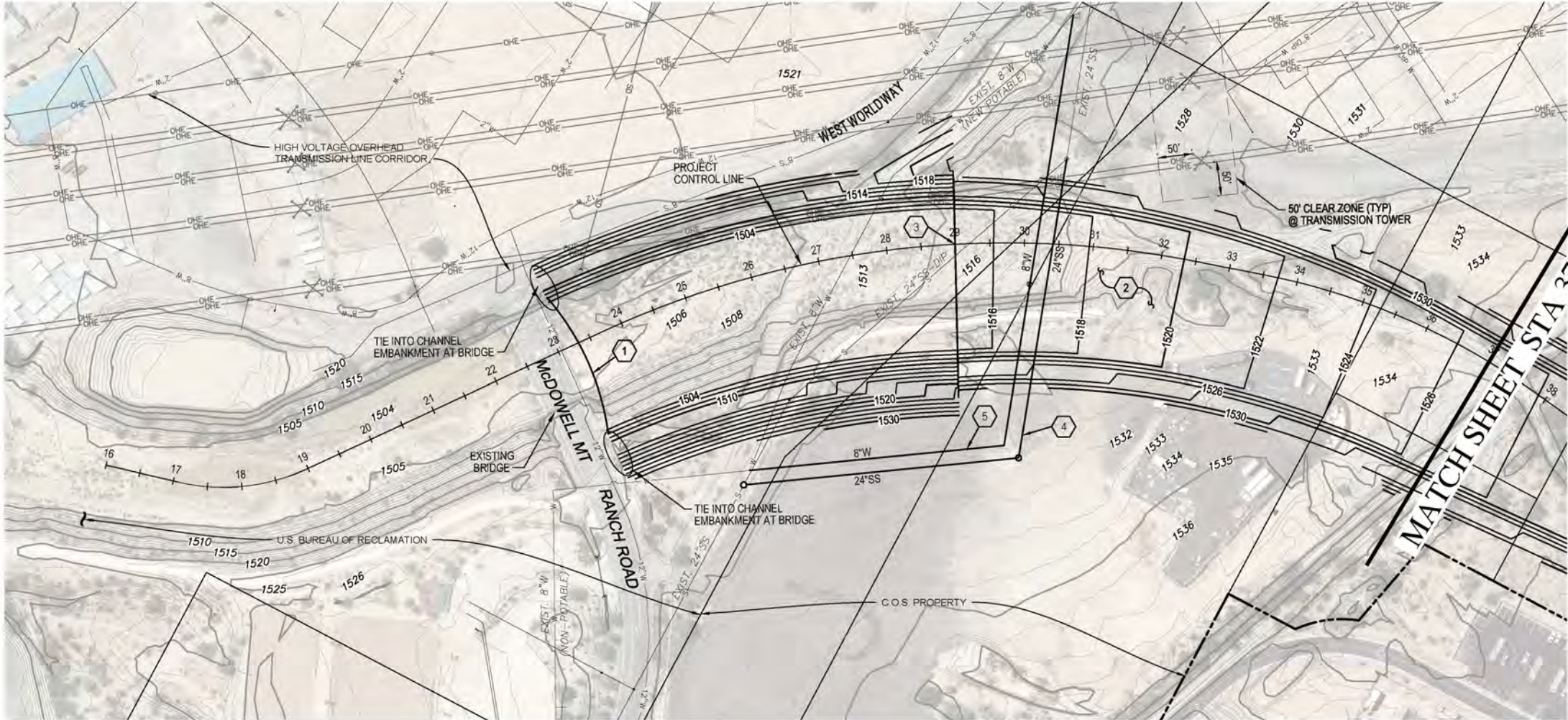


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7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 86261		
TYPICAL SECTIONS AND DETAILS		
REATA WASH FLOOD CONTROL IMPROVEMENT STUDY		
SCALE	DESIGNED	DATE
N/A	AS-BUILT	August 2016
VERT.	PROJECT NO.	14SQ011
		5 OF 19



**PRELIMINARY NOT FOR
CONSTRUCTION OR RECORDING**

XX-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

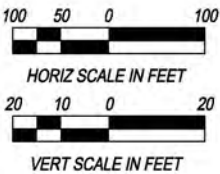
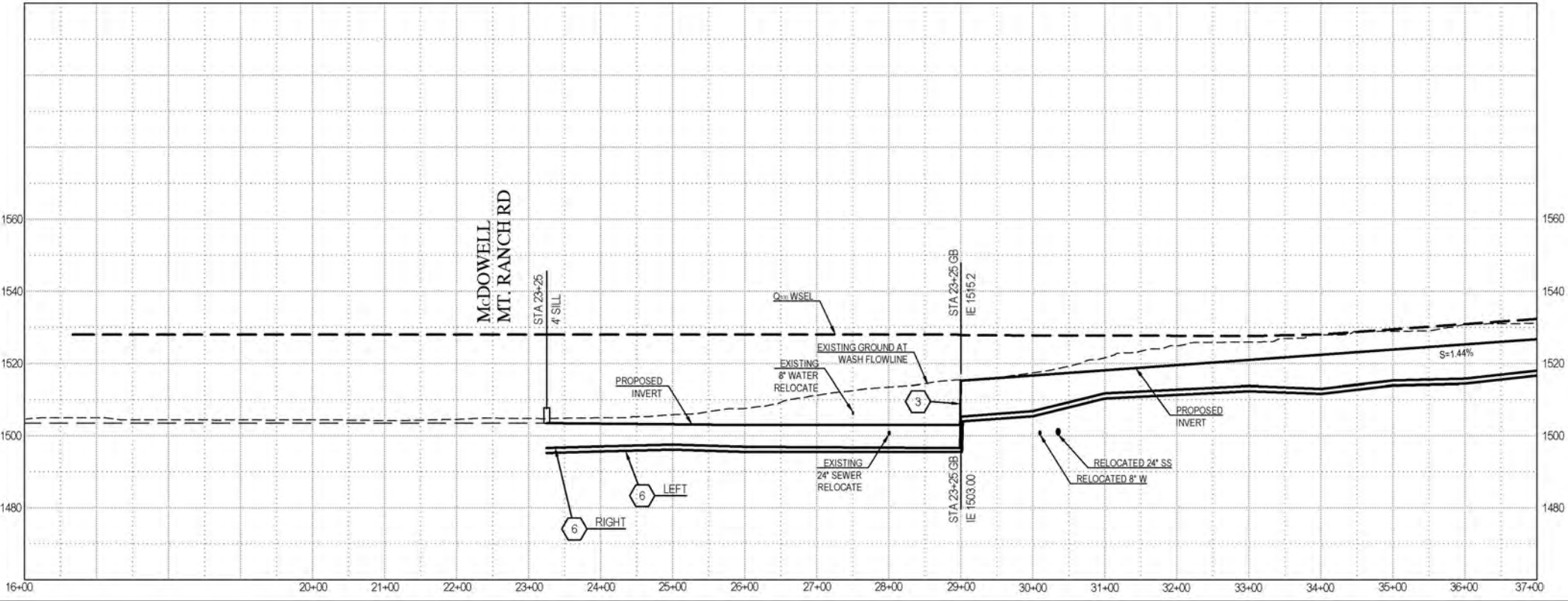
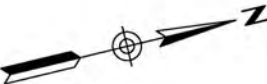


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CONCEPT DESIGN PLANS (15%)
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ENGINEER	15% PRELIMINARY NOT FOR CONSTRUCTION	PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
SHEET TITLE	CHANNEL PLAN & PROFILE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





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

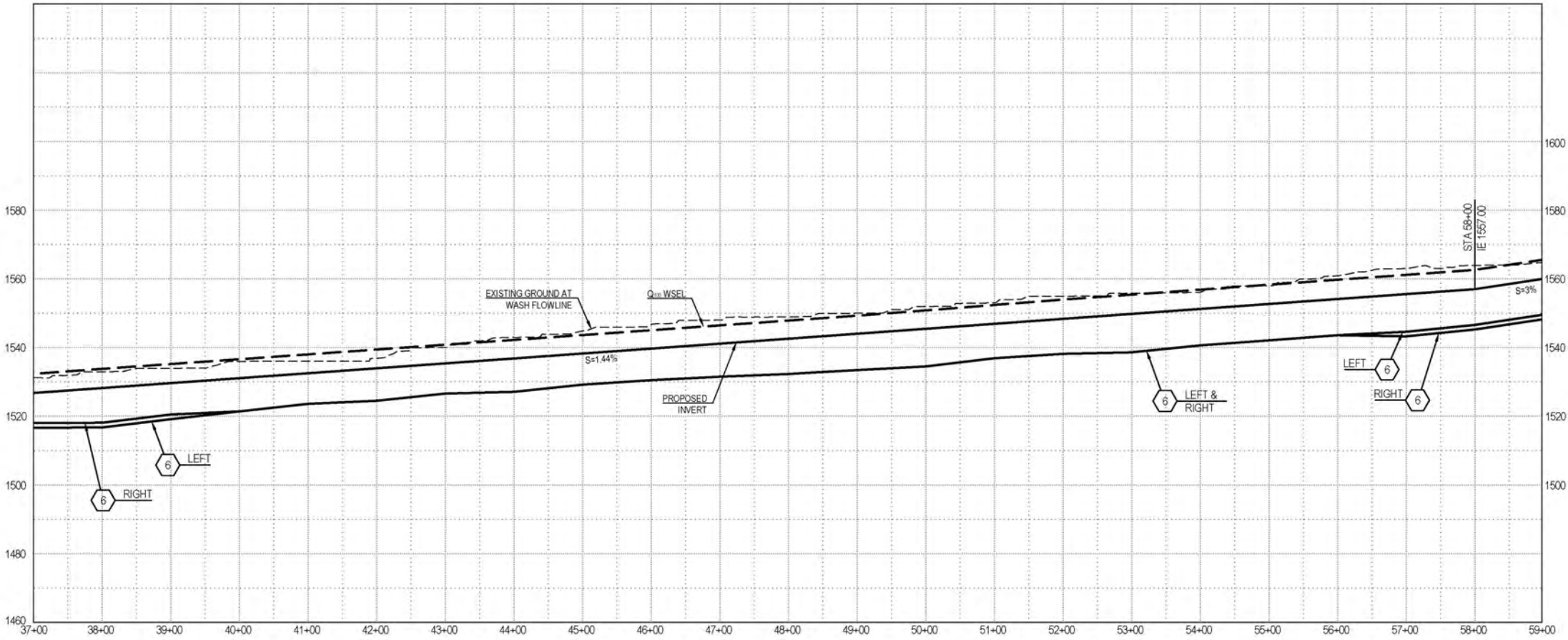
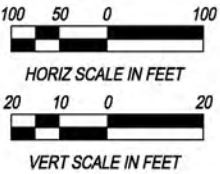
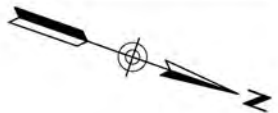


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SHEET TITLE	CHANNEL PLAN & PROFILE SHEET	
PROJECT TITLE	REATA WASH FLOOD CONTROL IMPROVEMENT STUDY	
SCALE	DESIGNED August 2016	BID NO. XXXX
HORIZ. 1" = 100'	DRAWN XX/XX	PROJECT NO. 14SQ011
VERT. 1" = 20'		SHT. C2
		8 OF 19



- 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.

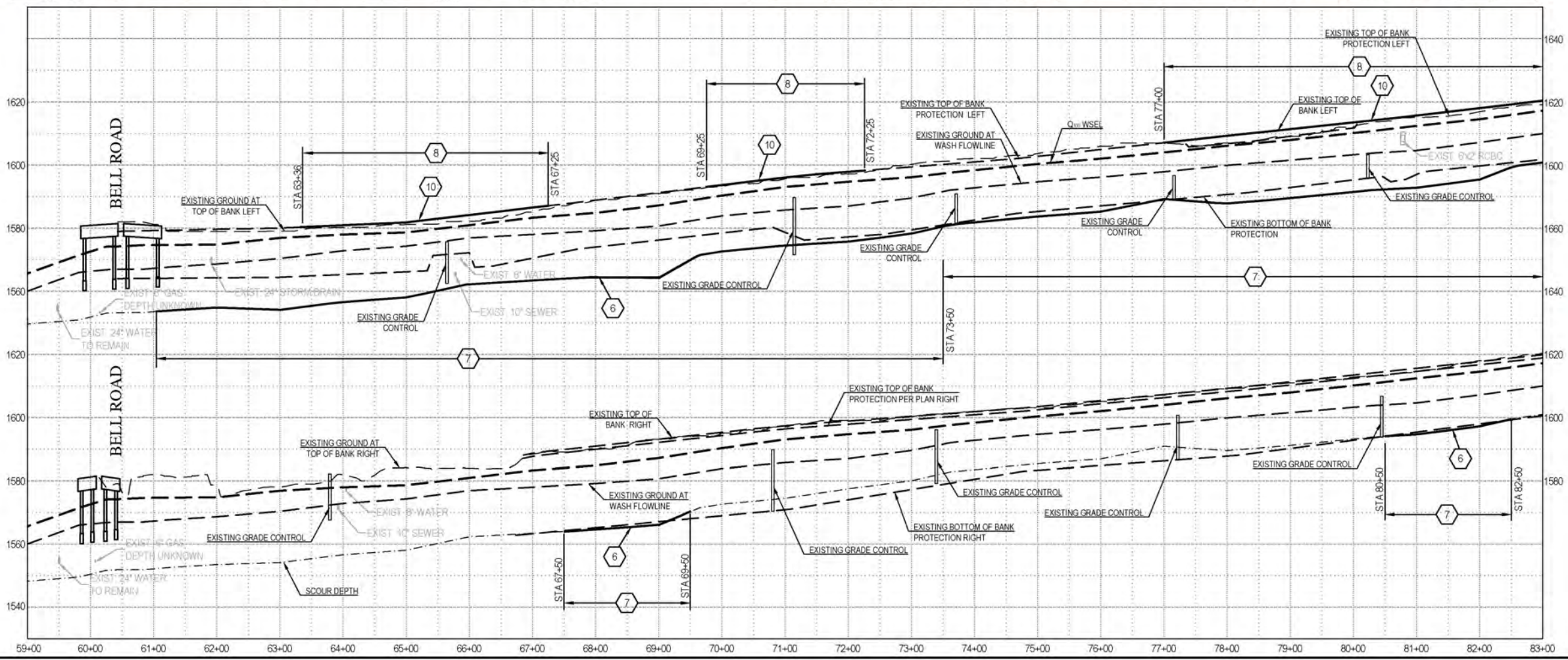
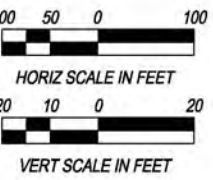


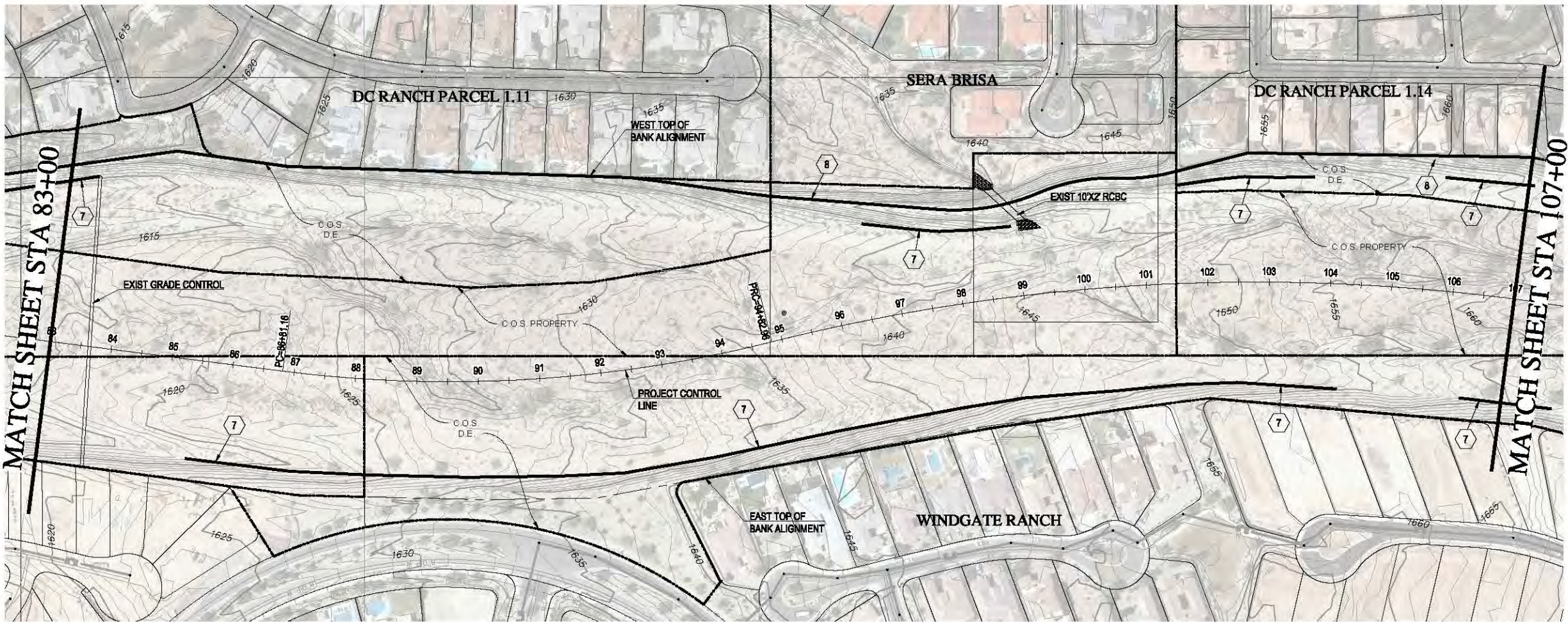
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SHEET TITLE	CHANNEL PLAN & PROFILE SHEET	
PROJECT TITLE	REATA WASH FLOOD CONTROL IMPROVEMENT STUDY	
SCALE	DESIGNED	DATE
HORIZ: 1" = 100'	DRAWN	August 2016
VERT: 1" = 20'	AS-BUILT	XX/XX
	PROJECT NO.	BID NO.
	14SQ011	XXXX
		SHT. C3
		9 OF 19

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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.
 - 8 PROPOSED LEVEE IMPROVEMENTS. SEE TYPICAL SECTION SHEET FOR DETAILS.
 - 10 PROPOSED TOP OF LEVEE / EMBANKMENT.

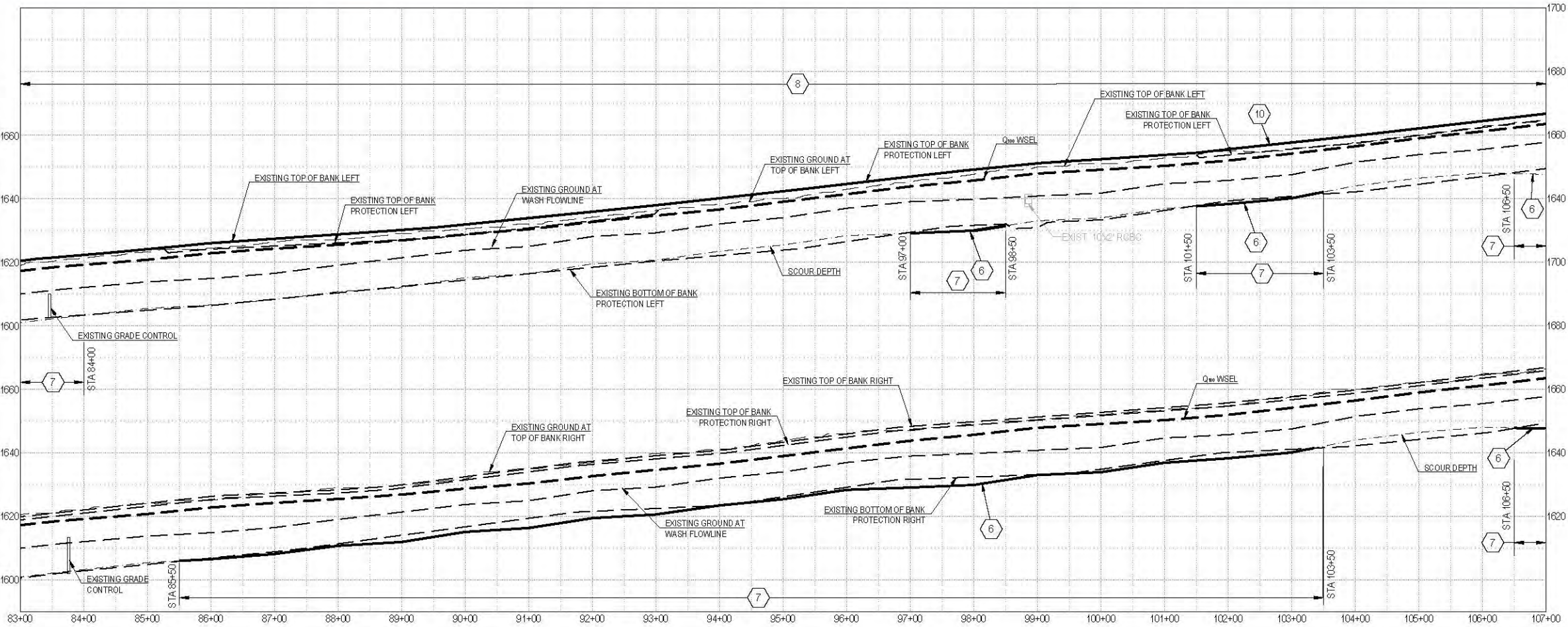
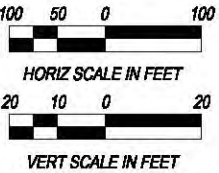
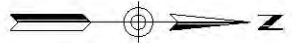
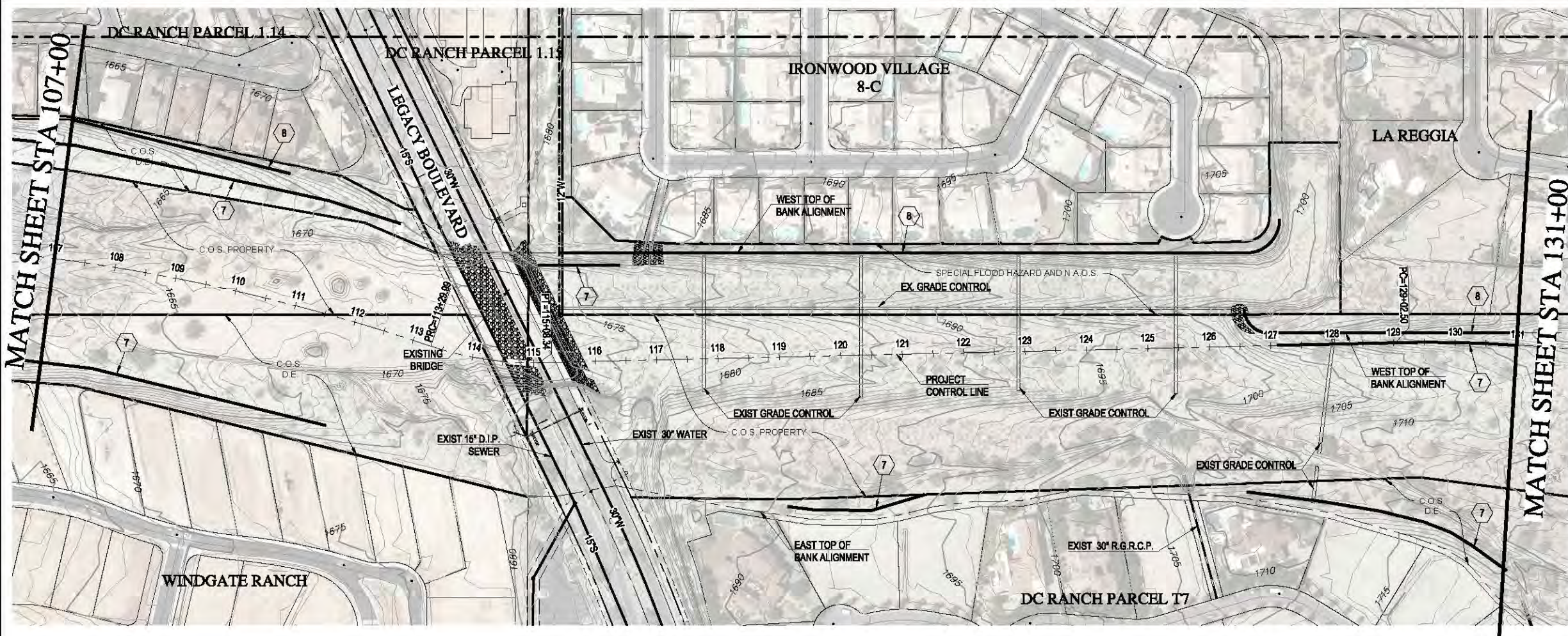


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CONSTRUCTION		
SHEET TITLE	CHANNEL PLAN & PROFILE SHEET	
PROJECT TITLE	REATA WASH FLOOD CONTROL IMPROVEMENT STUDY	
SCALE	DESIGNED	DATE
HORIZ. 1" = 800'	AS-BUILT	August 2016
VERT. 1" = 20'	DRAWN	XX/XX
		BID NO. XXXX
		PROJECT NO. 1450011
		SHT. C4
		10 OF 19



- 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.

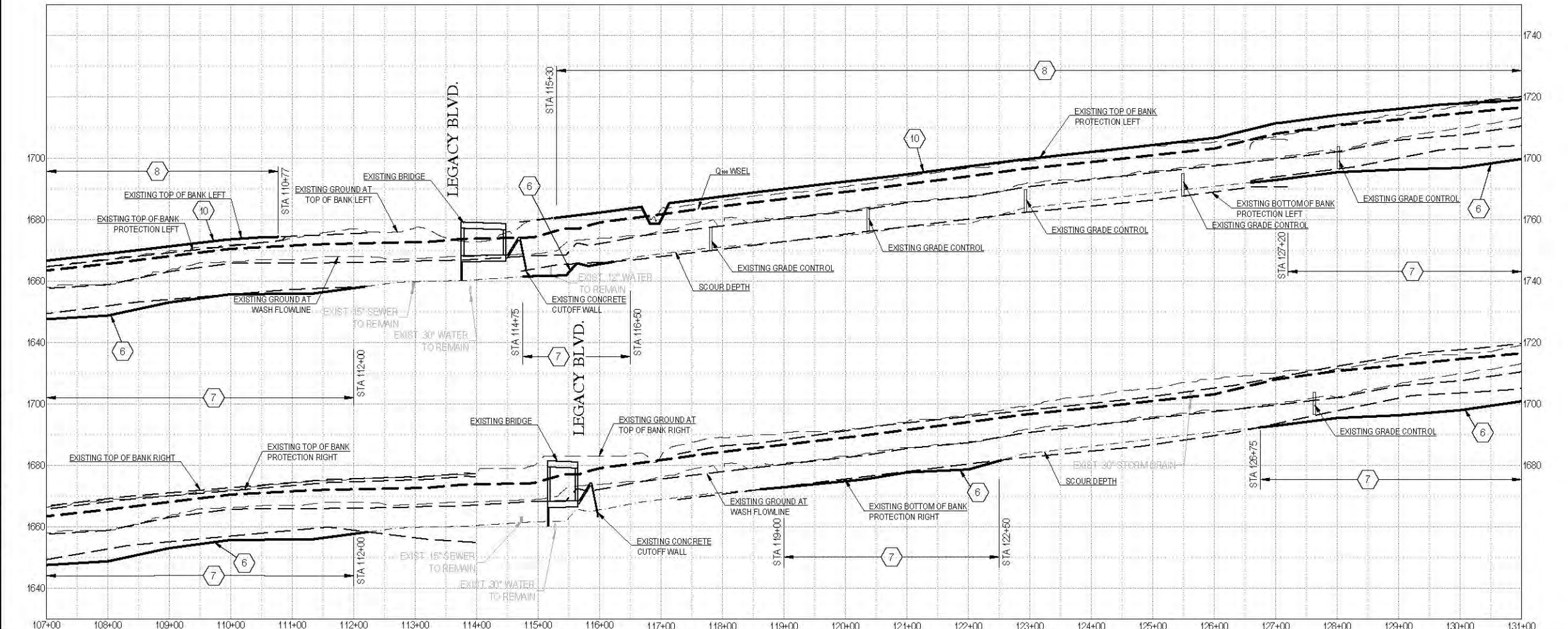
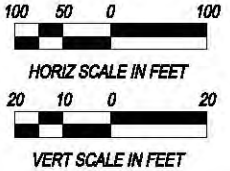



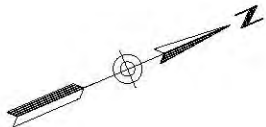
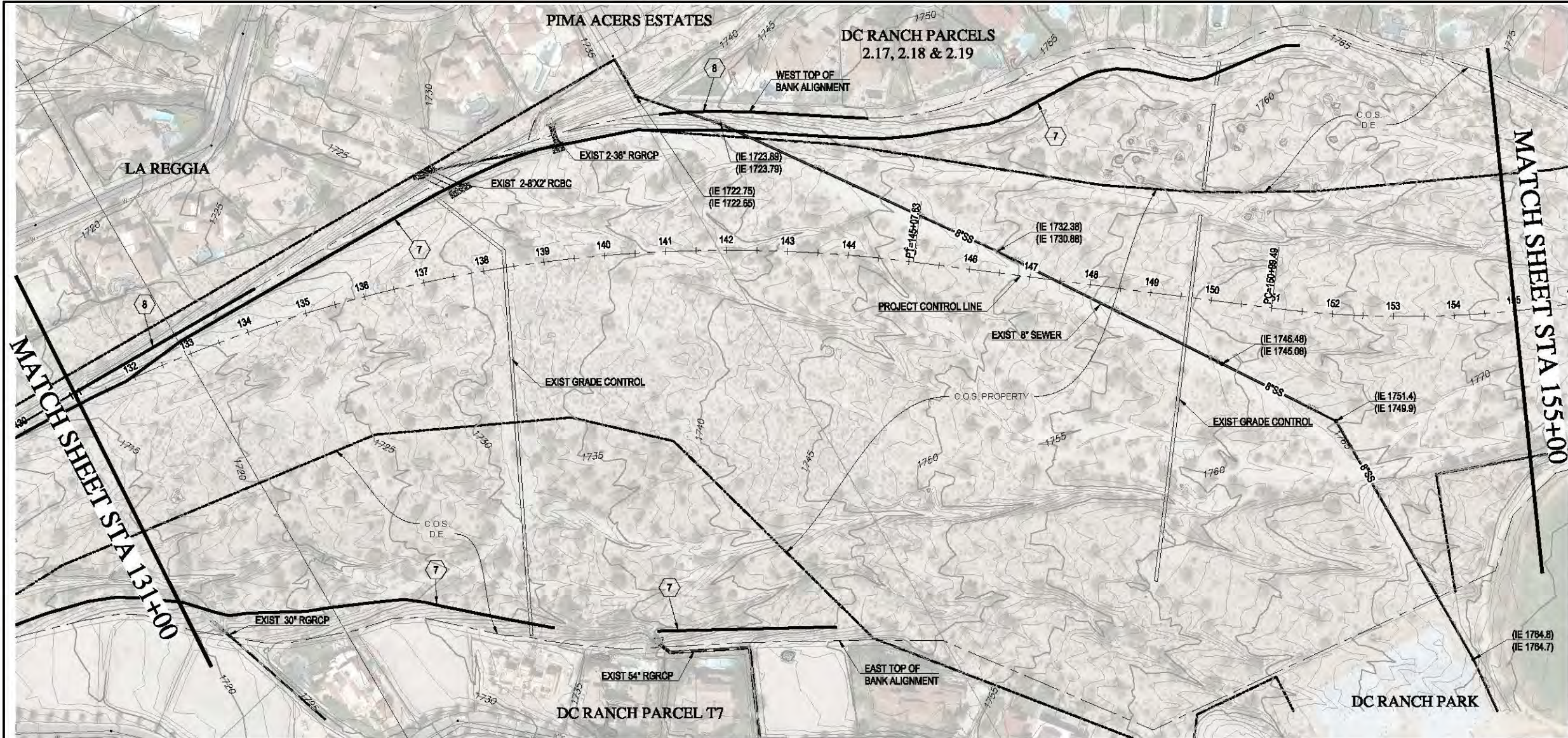
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	7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251	
SHEET TITLE	CHANNEL PLAN & PROFILE SHEET	
PROJECT TITLE	REATA WASH FLOOD CONTROL IMPROVEMENT STUDY	
SCALE	DESIGNED	DATE
HORIZ. 1" = 100'	AS-BUILT	August 2016
VERT. 1" = 20'	DRAWN	XX/XX
		PROJECT NO.
		1450011
		BID NO.
		XXXX
		SHT.
		C5
		11 OF 19

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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.
 - 8 PROPOSED LEVEE IMPROVEMENTS. SEE TYPICAL SECTION SHEET FOR DETAILS.
 - 10 PROPOSED TOP OF LEVEE / EMBANKMENT.

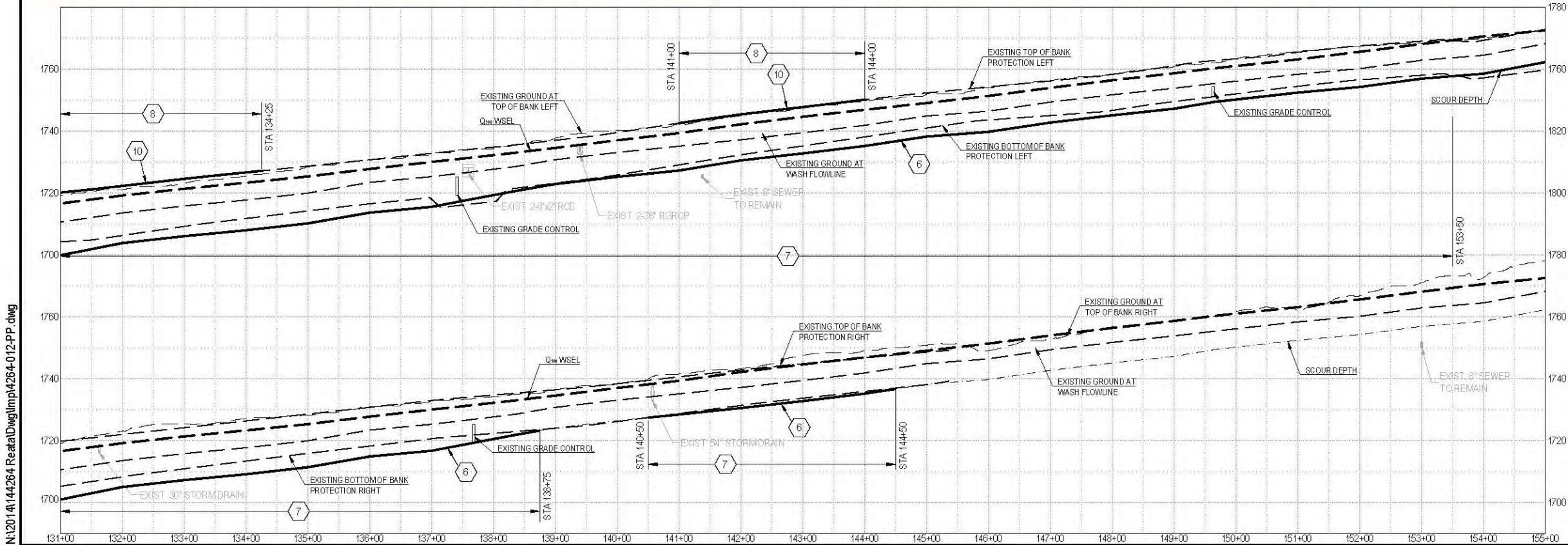
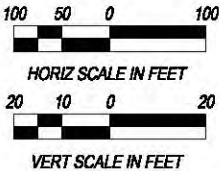

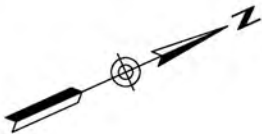


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	7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251	
SHEET TITLE CHANNEL PLAN & PROFILE SHEET		
PROJECT TITLE REATA WASH FLOOD CONTROL IMPROVEMENT STUDY		
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HORIZ. 1" = 100'	AS-BUILT	August 2016
VERT. 1" = 20'	DRAWN	XX/XX
		BID. NO. XXXX
		PROJECT NO. 1450011
		SHT. C6
		12 OF 19



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

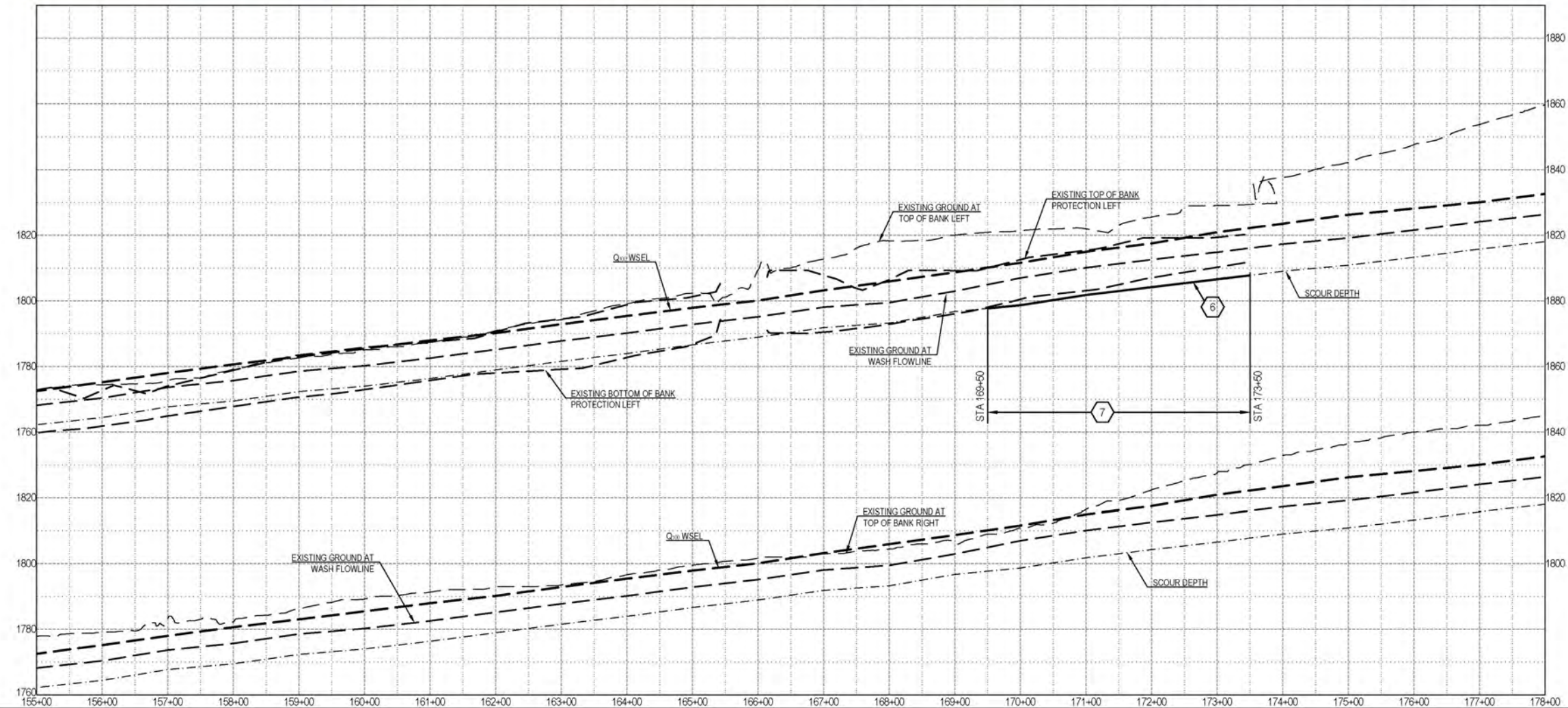
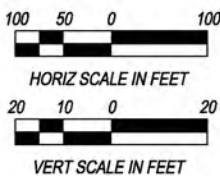


EXHIBIT 5
CONCEPT DESIGN PLANS (15%)
PRELIMINARY NOT FOR
CONSTRUCTION OR RECORDING



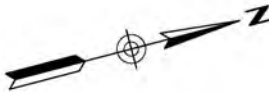
DATE	REVISION	BY
ENGINEER	DESIGNED	DATE
15%	August 2016	XXXX
PRELIMINARY	AS-BUILT	XXXX
NOT FOR	XX/XX	14SQ011
CONSTRUCTION		13 OF 19

PUBLIC WORKS
CAPITAL PROJECT MANAGEMENT
7447 E. INDIAN SCHOOL RD.
SCOTTSDALE, ARIZONA 85251

SHEET TITLE
CHANNEL PLAN & PROFILE SHEET

PROJECT TITLE
REATA WASH
FLOOD CONTROL IMPROVEMENT STUDY

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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.

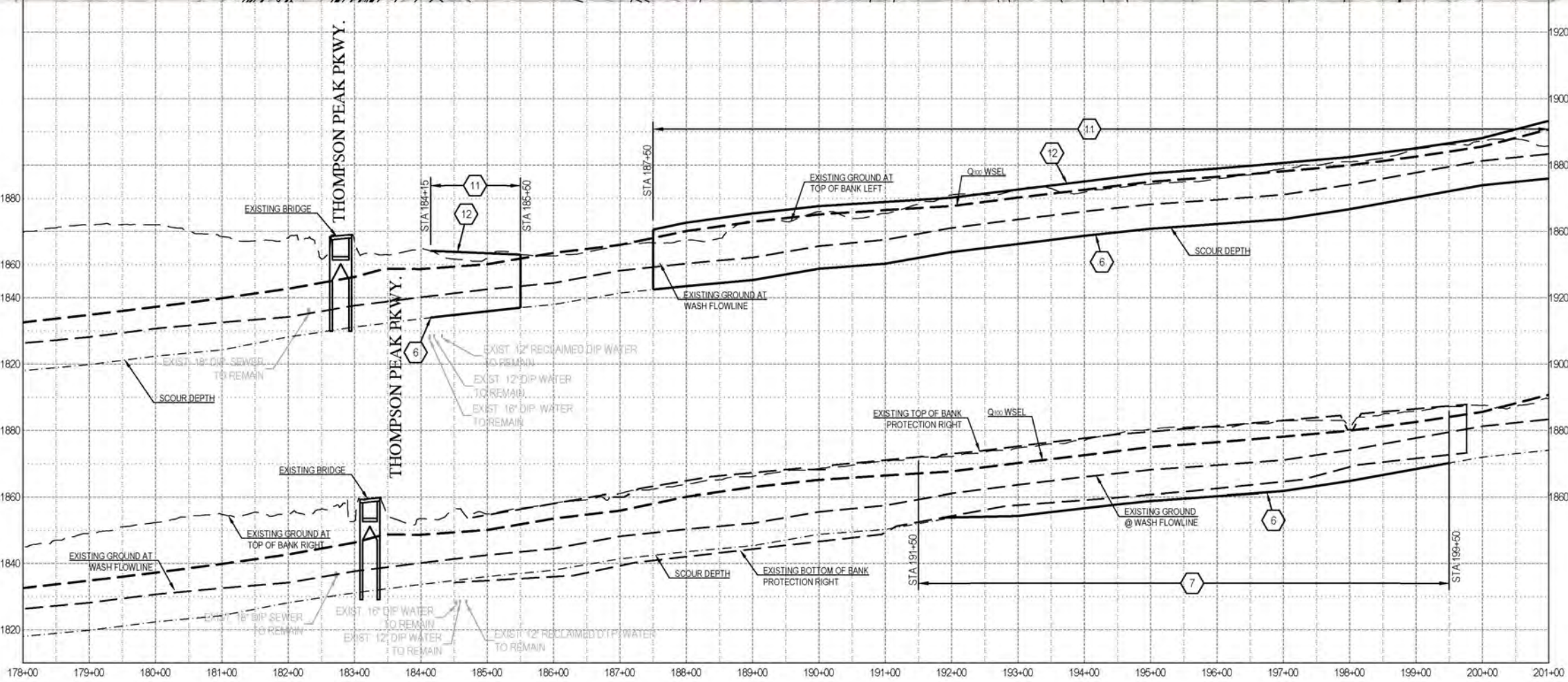
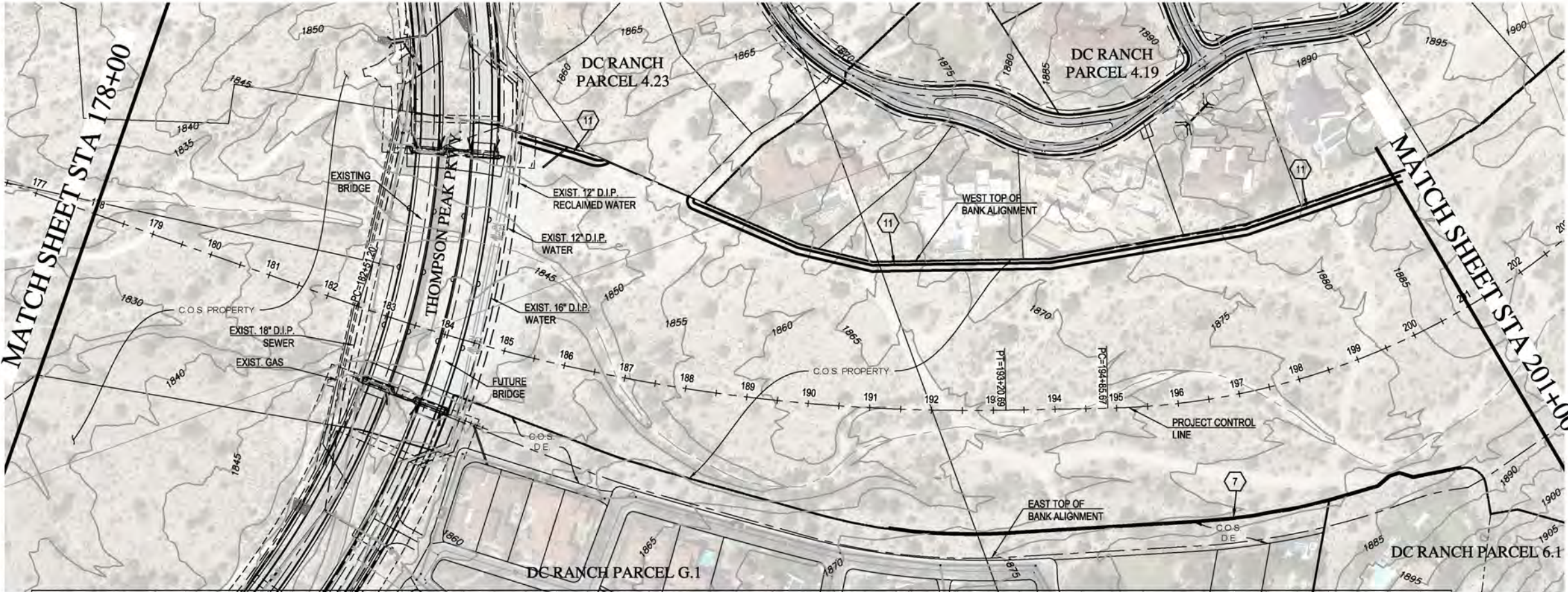
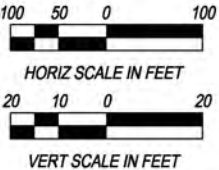


EXHIBIT 5
CONCEPT DESIGN PLANS (15%)
**PRELIMINARY NOT FOR
CONSTRUCTION OR RECORDING**



DATE	REVISION	BY
ENGINEER	15% PRELIMINARY NOT FOR CONSTRUCTION	PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
SHEET TITLE	CHANNEL PLAN & PROFILE SHEET	
PROJECT TITLE	REATA WASH FLOOD CONTROL IMPROVEMENT STUDY	
SCALE HORIZ: 1" = 100' VERT: 1" = 20'	DESIGNED August 2016 DRAWN XX/XX	SHEET C8 14 OF 19

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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.

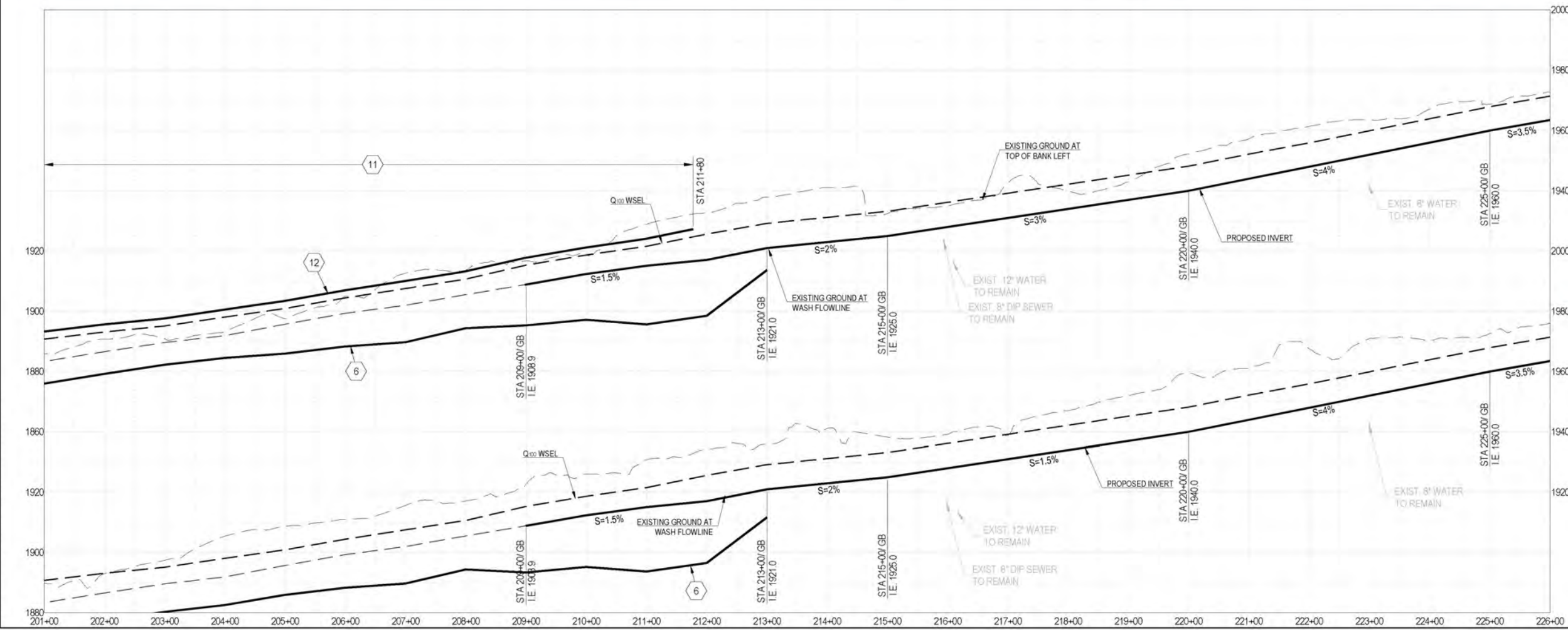
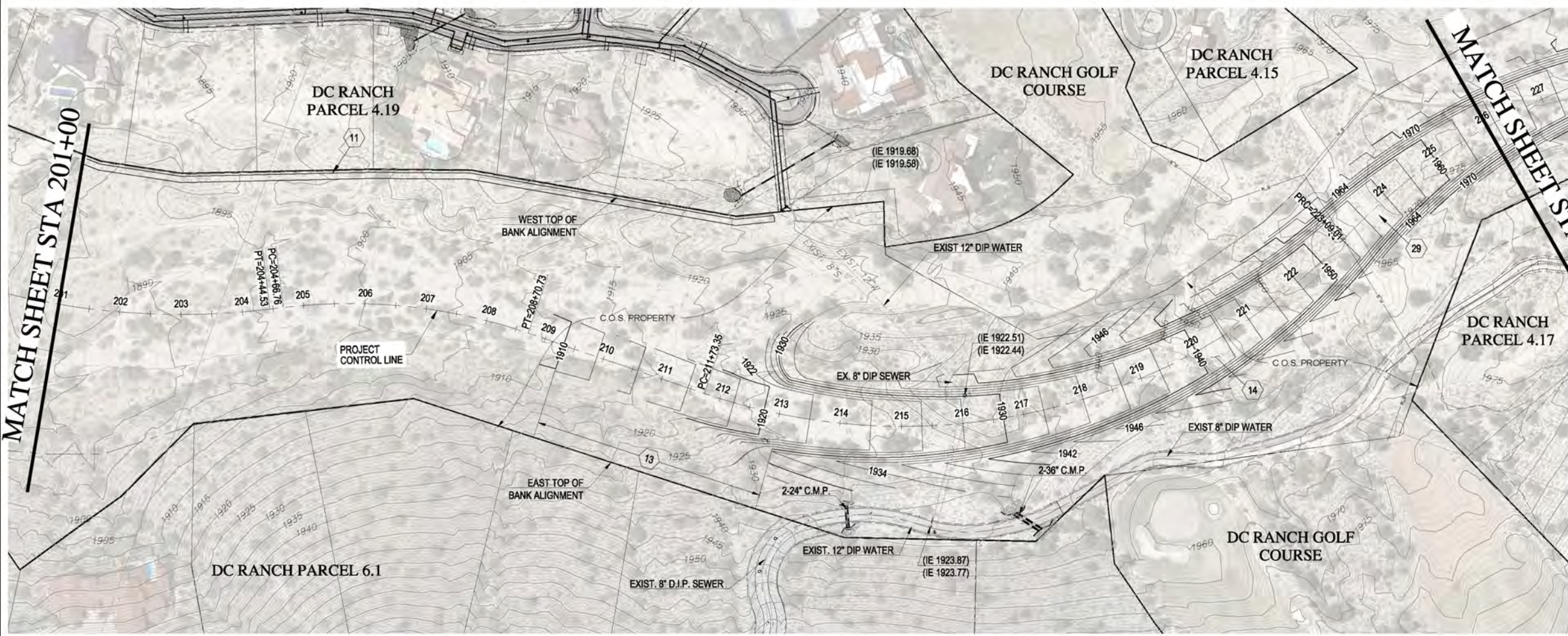
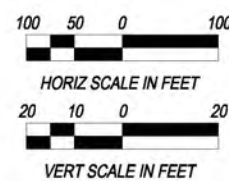
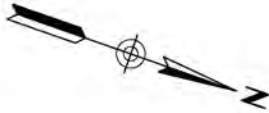


EXHIBIT 5
CONCEPT DESIGN PLANS (15%)
**PRELIMINARY NOT FOR
CONSTRUCTION OR RECORDING**



DATE	REVISION	BY
ENGINEER		
15%		
PRELIMINARY NOT FOR CONSTRUCTION		
SHEET TITLE	CHANNEL PLAN & PROFILE SHEET	
PROJECT TITLE	REATA WASH FLOOD CONTROL IMPROVEMENT STUDY	
SCALE	DESIGNED	DATE
HORIZ: 1" = 100'	DRAWN	August 2016
VERT: 1" = 20'	AS-BUILT	XXXX
	PROJECT NO.	BIO NO.
	14SQ011	XXXX
		SHT. C9
		15 OF 19

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GRADING NOTES

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

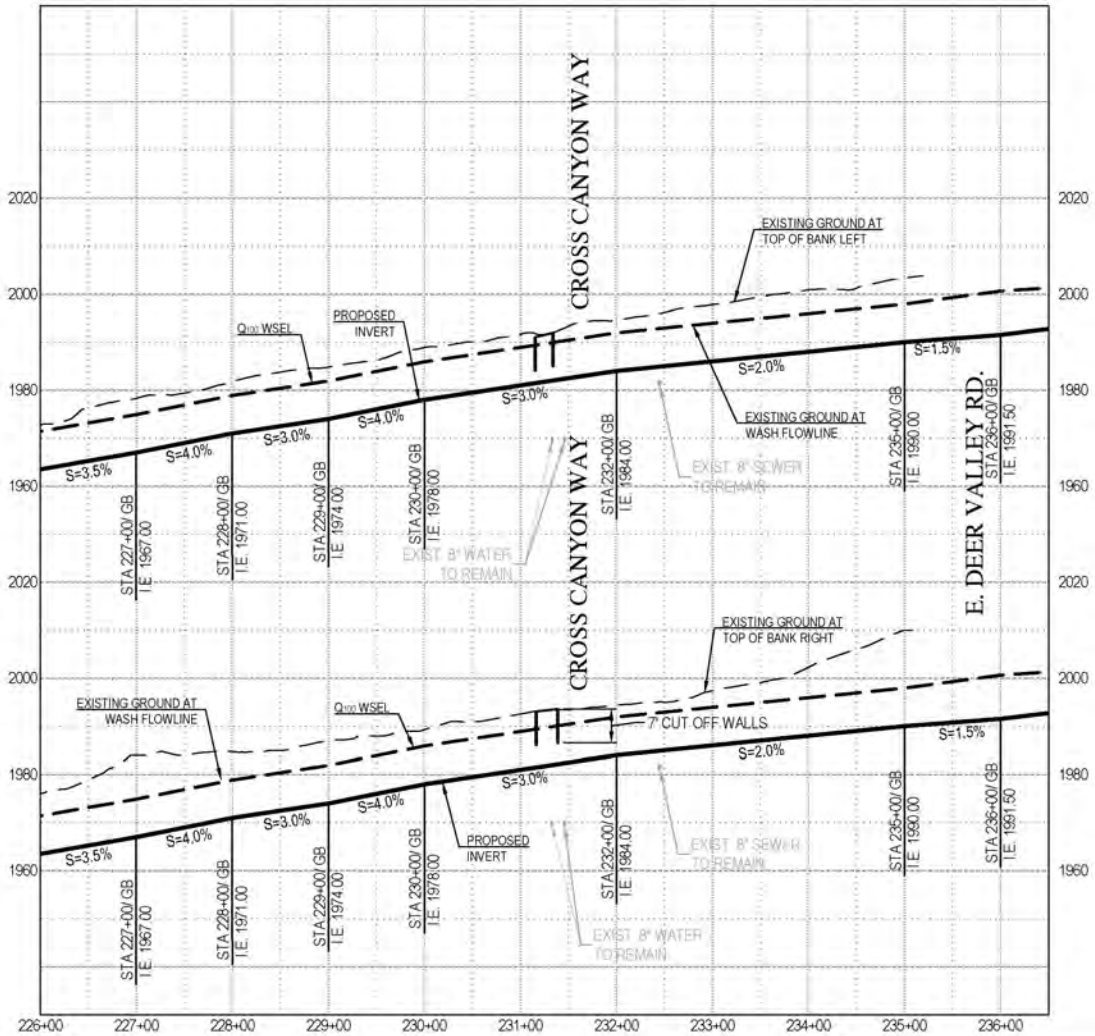
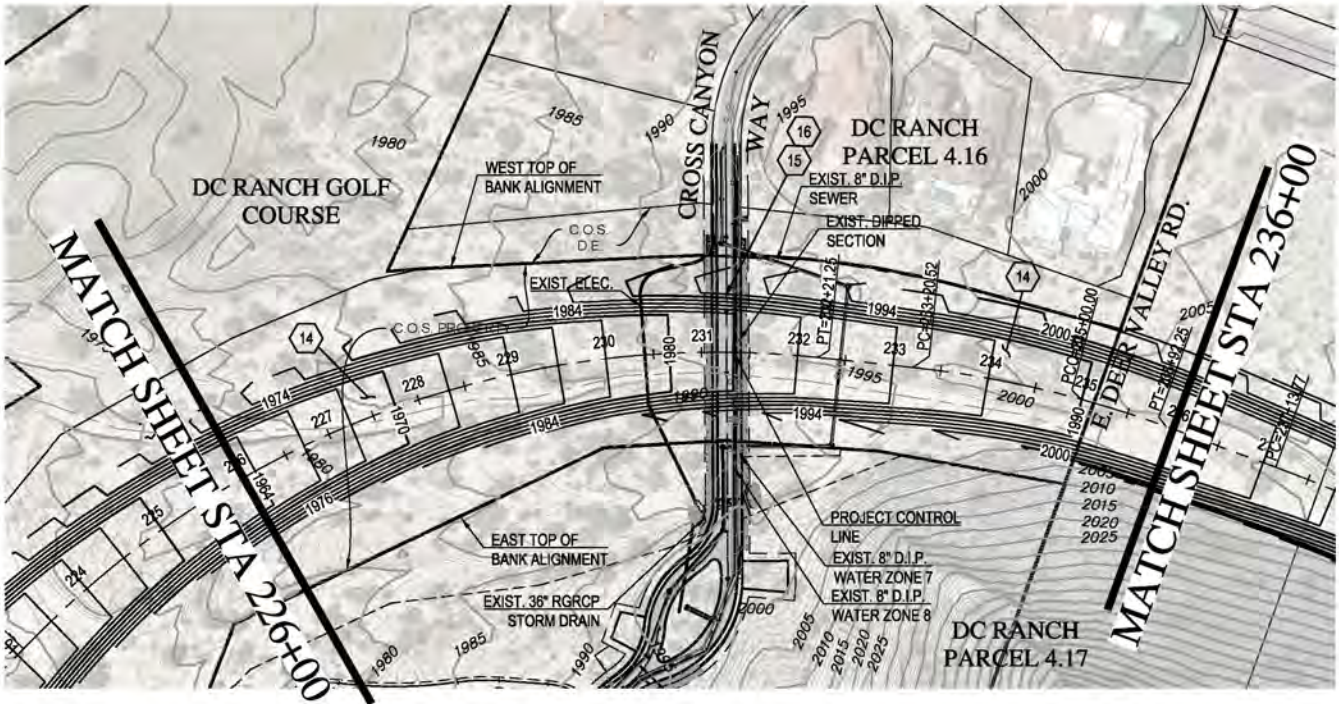
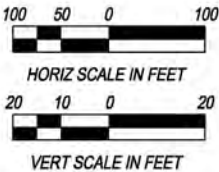
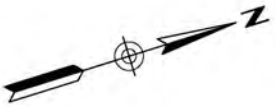


EXHIBIT 5
CONCEPT DESIGN PLANS (15%)

PRELIMINARY NOT FOR
CONSTRUCTION OR RECORDING



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

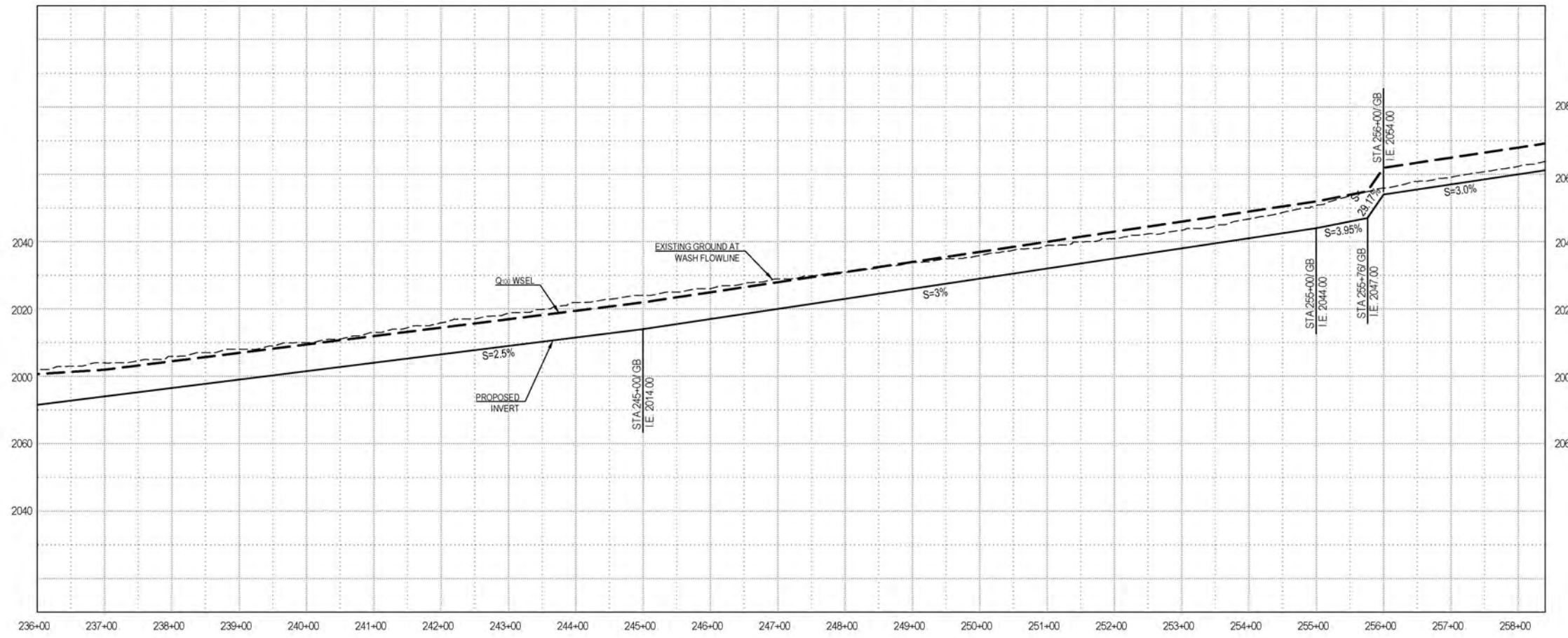
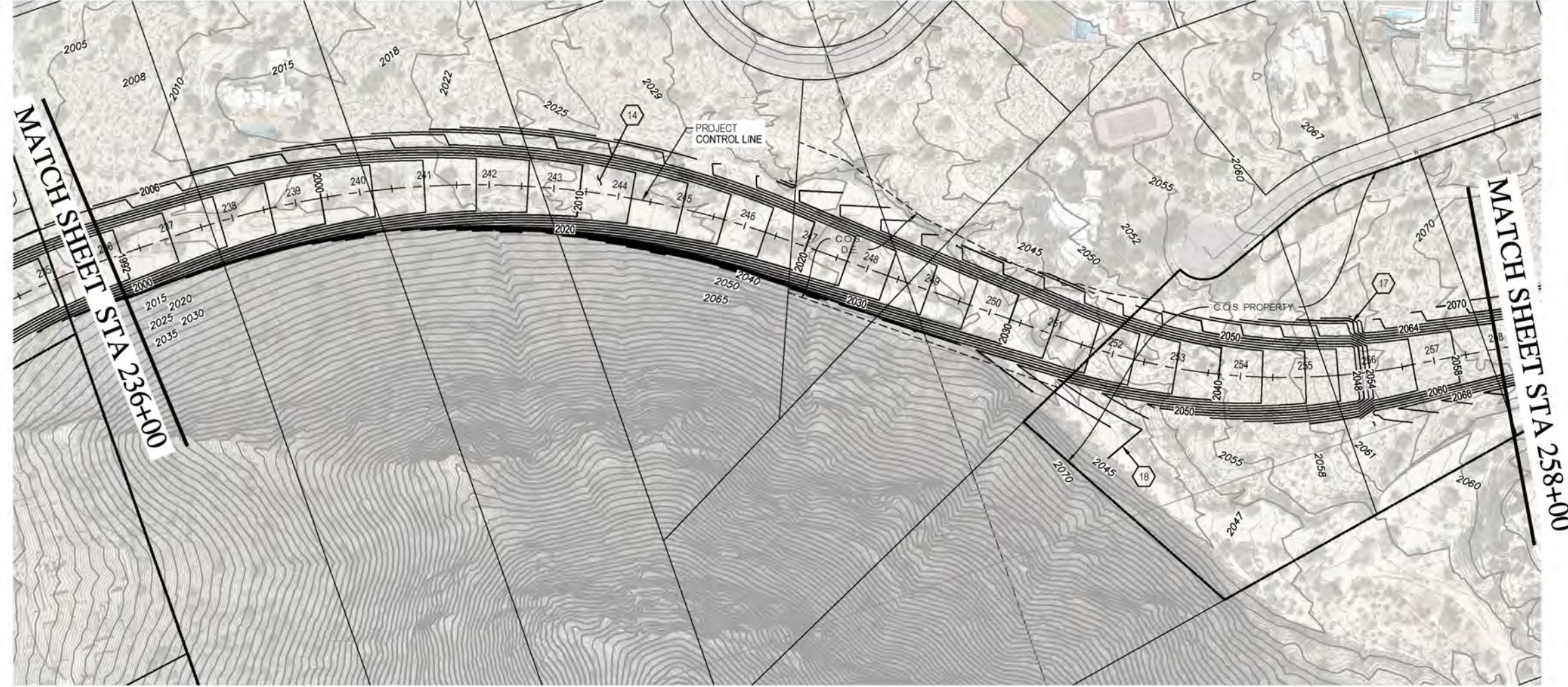
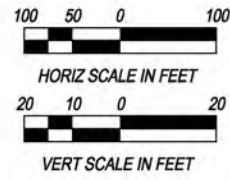
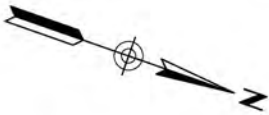


EXHIBIT 5
CONCEPT DESIGN PLANS (15%)
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DATE	REVISION	BY
ENGINEER	15% PRELIMINARY NOT FOR CONSTRUCTION	PUBLIC WORKS CITY OF SCOTTSDALE CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
SHEET TITLE	CHANNEL PLAN & PROFILE SHEET	
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.		BID NO.
14SQ011		XXXX
SHEET		C11
17		OF 19

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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.
- 28 POTENTIAL FUTURE WILDLIFE CROSSING.

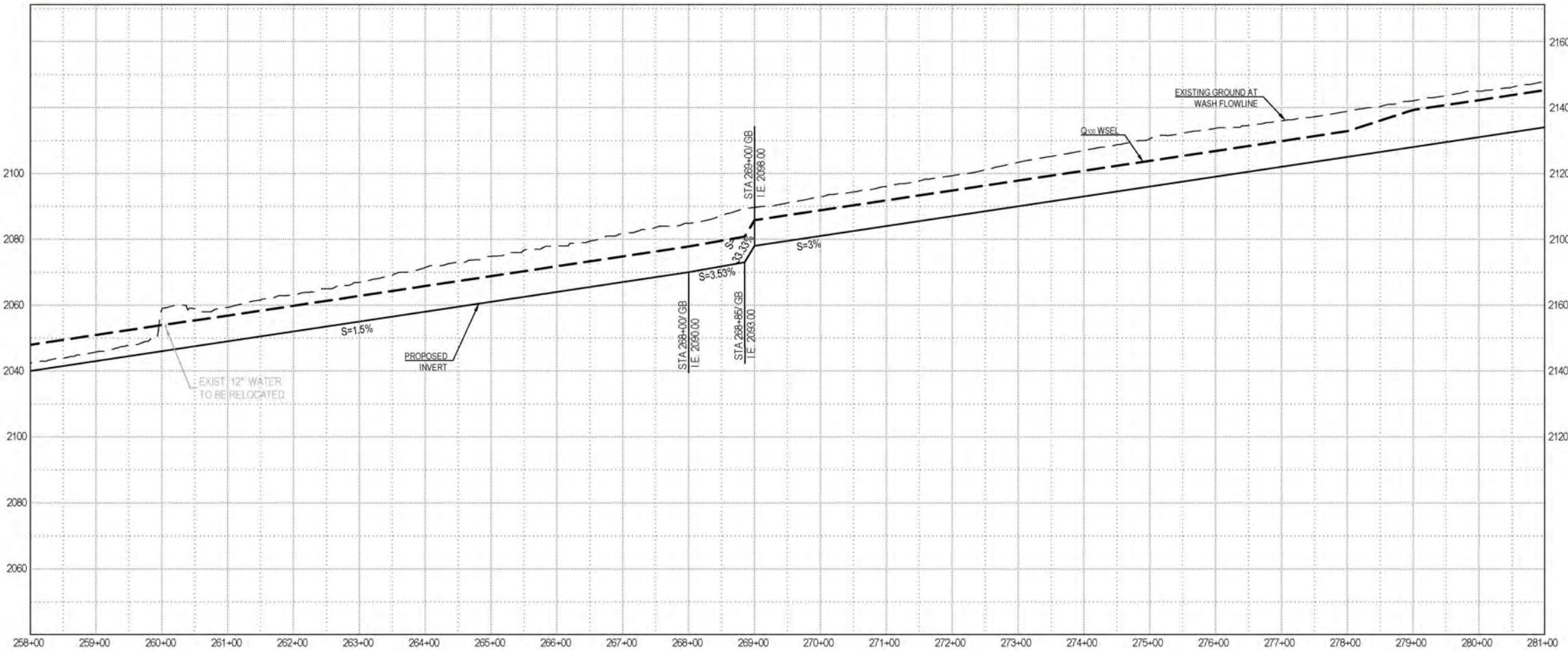
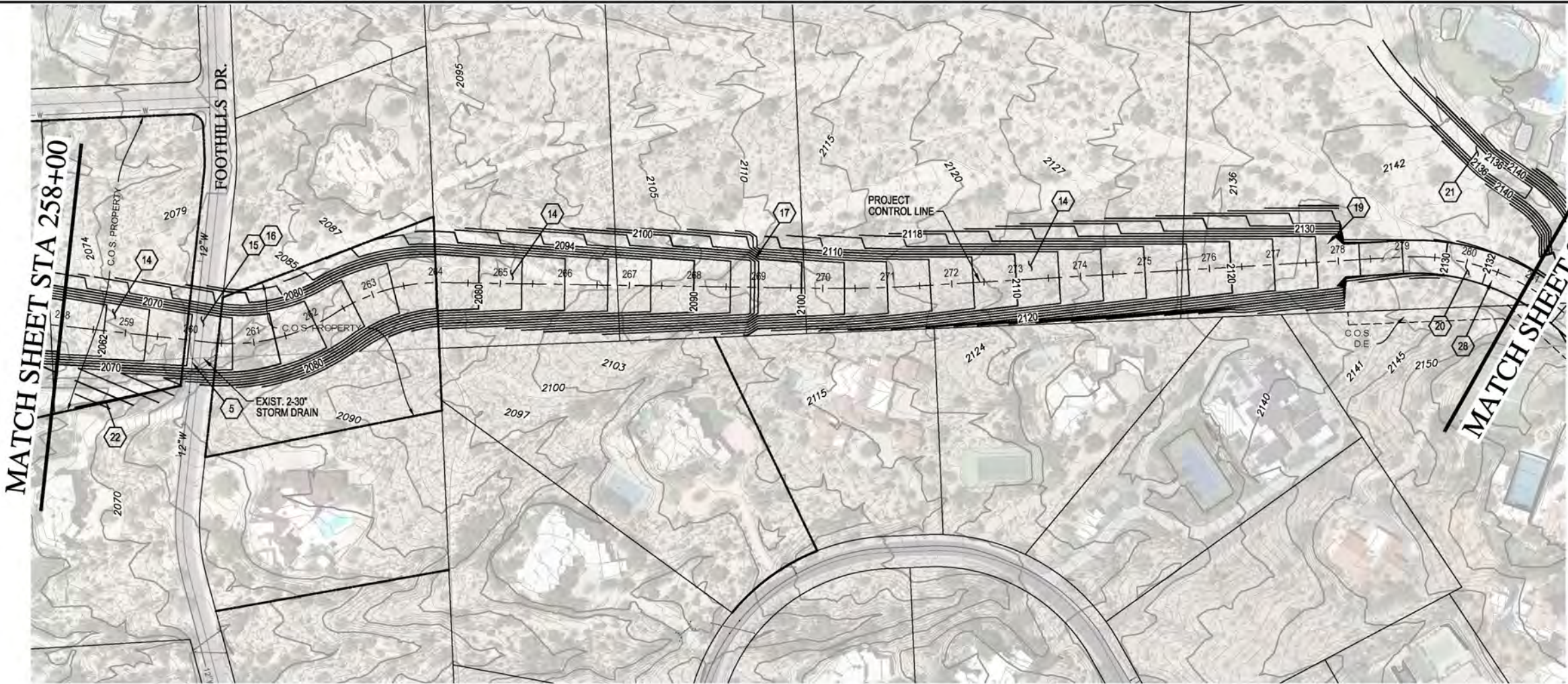
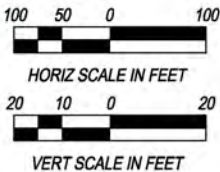


EXHIBIT 5
CONCEPT DESIGN PLANS (15%)
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DATE	REVISION	BY
ENGINEER	15% PRELIMINARY NOT FOR CONSTRUCTION	PUBLIC WORKS CITY OF SCOTTSDALE CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
SHEET TITLE	CHANNEL PLAN & PROFILE SHEET	
PROJECT TITLE	REATA WASH FLOOD CONTROL IMPROVEMENT STUDY	
SCALE HORIZ: 1" = 100' VERT: 1" = 20'	DESIGNED August 2016	DATE XXXX PROJECT NO. 14SQ011
DRAWN XX/XX	BY C12	18 OF 19

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- 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.

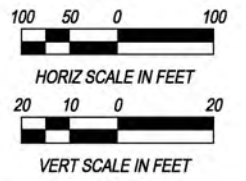


EXHIBIT 5 CONCEPT DESIGN PLANS (15%)

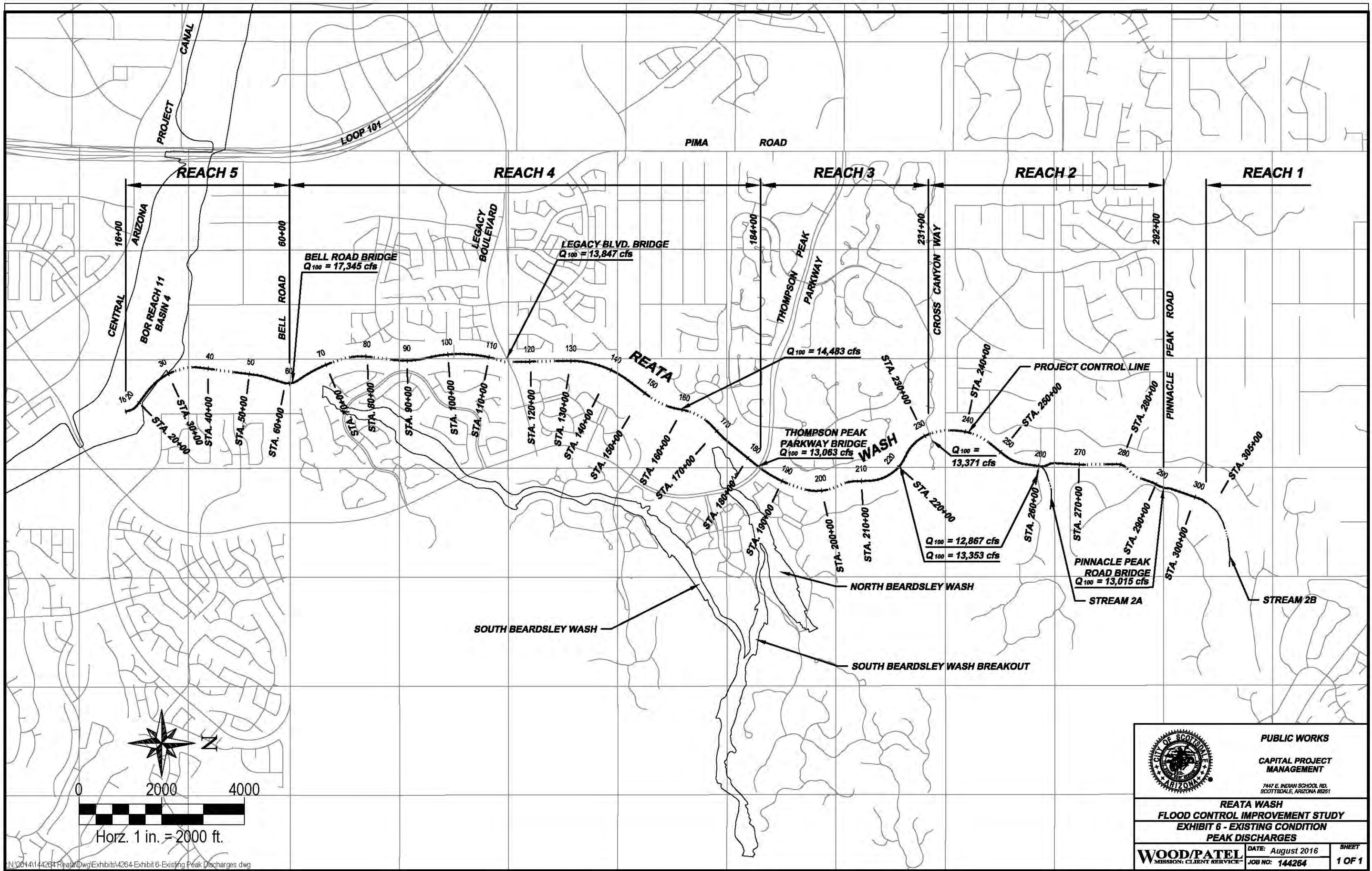
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ENGINEER	15% PRELIMINARY NOT FOR CONSTRUCTION	PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
SHEET TITLE	CHANNEL PLAN & PROFILE SHEET	
PROJECT TITLE	REATA WASH FLOOD CONTROL IMPROVEMENT STUDY	
SCALE	DESIGNED	DATE
HORIZ. 1" = 100'	AS-BUILT	August 2016
VERT. 1" = 20'	DRAWN	XX/XX
BID NO.	PROJECT NO.	SHT.
XXXX	14SQ011	C13
		19 OF 19

XXX-XX

EXHIBIT 6
EXISTING CONDITION PEAK DISCHARGES



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PUBLIC WORKS
CAPITAL PROJECT
MANAGEMENT

7447 E. INDIAN SCHOOL RD.
SCOTTSDALE, ARIZONA 85251

REATA WASH
FLOOD CONTROL IMPROVEMENT STUDY
EXHIBIT 6 - EXISTING CONDITION
PEAK DISCHARGES

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

EXHIBIT 7
PROPOSED CONDITION PEAK DISCHARGES

