

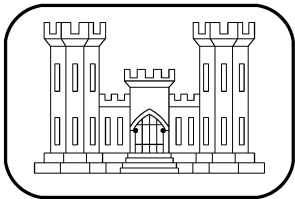
BERNALILLO COUNTY, NEW MEXICO

# RIO GRANDE FLOODWAY

PLANS FOR

# MIDDLE RIO GRANDE- (MRG) FEASIBILITY STUDY TECH APPENDIX

SOLICITATION NO. : XXXX  
DATED : December 2019



United States Army  
Corps of Engineers  
...Serving the Army  
...Serving the Nation

# Albuquerque District



THE DESIGN, ASSOCIATED DETAILS, AND PRESENTATION CONCEPTS IN THIS SET OF DRAWINGS WERE ASSEMBLED AND REVIEWED BY THE FOLLOWING ALBUQUERQUE DISTRICT DESIGN TEAM. THIS DOCUMENT MEETS OUR HIGH STANDARDS OF QUALITY AND PROFESSIONALISM.

TEAM MEMBER	SIGNATURE	FUNCTION
CIVIL		
CHRIS VELASQUEZ, P.E.		CHIEF, GEN ENG SECTION
DEBBIE SMITH		CIVIL ENGINEER
RONNIE CASAUS		CIVIL ENGINEER TECH
GEOTECH		
RICHARD HALL, P.E.		CHIEF, GEOTECHNICAL SECTION
MATTHEW BONNER, P.E.		CIVIL ENGINEER-GEOTECH
ENVIRONMENTAL RESOURCES		
GEORGE MACDONELL		CHIEF, ENVIRONMENTAL RESOURCES SECTION
JEREMY DECKER		ARCHAEOLOGIST
MICHAEL PORTER		BIOLOGIST
H & H		
STEPHEN SCISSONS, P.E.		CHIEF, HYDROLOGY AND HYDRAULIC SECTION
STEVE BOBERG, P.E.		HYDRAULIC ENGINEER
JONATHAN AUBUCHON, P.E.		HYDRAULIC ENGINEER
STRUCTURAL		
RICHARD ZARAGOSA, P.E.		STRUCTURAL ENGINEER
COST ENGINEERING		
MICHAEL R. PRUDHOMME, P.E.		CHIEF, COST ENGINEERING SECTION
TIMOTHY TETRICK		ESTIMATOR
PLAN FORMULATION		
MARK DOLES		CHIEF, PLAN FORULATION SECTION
STACY SAMUELSON		WATER PLANNER RESOURCES
PROJECT MANAGEMENT		
CORINNE O'HARE, P.L.A.		PROJECT MANAGER

SIGNATURES AFFIXED BELOW INDICATE OFFICIAL RECOMMENDATION AND APPROVAL OF ALL DRAWINGS IN THIS SET AS INDEXED.

SUBMITTED:

CHIEF, DESIGN BRANCH

APPROVED:

CHIEF, ENGINEERING AND CONSTRUCTION DIVISION

THIS PROJECT WAS DESIGNED BY THE U.S. ARMY CORPS OF ENGINEERS ALBUQUERQUE DISTRICT. THE INITIALS OR SIGNATURES AND REGISTRATION DESIGNATIONS OF GOVERNMENT INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER 1110-1-8152.


MIDDLE RIO GRANDE LEVEE, BERNALILLO COUNTY, NEW MEXICO. CONTRACT NO.

# MRG BERNALILLO TO BELEN LEVEE FEASABILITY STUDY

## INDEX OF DRAWINGS

SEQ	SHT	TITLE	SEQ	SHT	TITLE	SEQ	SHT	TITLE
<b>GENERAL</b>			<b>2018 BELEN EAST UNIT LEVEE CON'T 100YR WS+5'</b>			<b>2018 BELEN WEST UNIT LEVEE CON'T 100YR WS+5'</b>		
1	G-001	COVER SHEET	45	C-127	BELEN EAST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 698+00 TO 726+00	84	C-112	BELEN WEST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 280+00 TO 308+00
2	G-002	INDEX OF DRAWINGS	46	C-128	BELEN EAST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 726+00 TO 754+00	85	C-113	BELEN WEST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 308+00 TO 336+00
3	G-003	GENERAL PLAN	47	C-129	BELEN EAST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 754+00 TO 782+00	86	C-114	BELEN WEST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 336+00 TO 364+00
<b>2018 MOUNTAIN VIEW UNIT LEVEE 100YR WS+4'</b>			48	C-130	BELEN EAST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 782+00 TO 810+00	87	C-115	BELEN WEST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 364+00 TO 392+00
4	C-100	MOUNTAIN VIEW UNIT LEVEE 100YR WS100 + 4' HORIZONTAL CONTROL	49	C-131	BELEN EAST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 810+00 TO 838+00	88	C-116	BELEN WEST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 392+00 TO 420+00
5	C-101	MOUNTAIN VIEW UNIT LEVEE 100YR WS100 + 4' KEY PLAN	50	C-132	BELEN EAST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 838+00 TO 866+00	89	C-117	BELEN WEST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 420+00 TO 448+00
6	C-102	MOUNTAIN VIEW UNIT LEVEE 100YR WS100 + 4' PLAN AND PROFILE STA. 00+00 TO 26+00	51	C-133	BELEN EAST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 866+00 TO 894+00	90	C-118	BELEN WEST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 448+00 TO 476+00
7	C-103	MOUNTAIN VIEW UNIT LEVEE 100YR WS100 + 4' PLAN AND PROFILE STA. 26+00 TO 52+00	52	C-134	BELEN EAST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 894+00 TO 922+00	91	C-119	BELEN WEST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 476+00 TO 504+00
8	C-104	MOUNTAIN VIEW UNIT LEVEE 100YR WS100 + 4' PLAN AND PROFILE STA. 52+00 TO 78+00	53	C-135	BELEN EAST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 922+00 TO 950+00	92	C-120	BELEN WEST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 504+00 TO 532+00
9	C-105	MOUNTAIN VIEW UNIT LEVEE 100YR WS100+ 4' PLAN AND PROFILE STA. 78+00 TO 104+00	54	C-302	BELEN EAST UNIT LEVEE 100YR WS100 + 5' TYPICAL LEVEE SECTION AND DETAILS	93	C-121	BELEN WEST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 532+00 TO 560+00
10	C-106	MOUNTAIN VIEW UNIT LEVEE 100YR WS100 + 4' PLAN AND PROFILE STA. 104+00 TO 130+00	<b>2018 ISLETA WEST UNIT LEVEE I 100YR WS+4'</b>			94	C-122	BELEN WEST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 560+00 TO 588+00
11	C-107	MOUNTAIN VIEW UNIT LEVEE 100YR WS100 + 4' PLAN AND PROFILE STA. 130+00 TO 156+00	55	C-100	ISLETA WEST UNIT LEVEE LEVEE I 100YR WS100 + 4' HORIZONTAL CONTROL	95	C-123	BELEN WEST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 588+00 TO 616+00
12	C-108	MOUNTAIN VIEW UNIT LEVEE 100YR WS100 + 4' PLAN AND PROFILE STA. 156+00 TO 182+00	56	C-101	ISLETA WEST UNIT LEVEE LEVEE I 100YR WS100 + 4' KEY PLAN	96	C-124	BELEN WEST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 616+00 TO 644+00
13	C-109	MOUNTAIN VIEW UNIT LEVEE 100YR WS100 + 4' PLAN AND PROFILE STA. 182+00 TO 208+00	57	C-102	ISLETA WEST UNIT LEVEE LEVEE I 100YR WS100 + 4' PLAN AND PROFILE STA. 0+00 TO 28+00	97	C-125	BELEN WEST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 644+00 TO 672+00
14	C-110	MOUNTAIN VIEW UNIT LEVEE 100YR WS100 + 4' PLAN AND PROFILE STA. 208+00 TO 230+00	58	C-103	ISLETA WEST UNIT LEVEE LEVEE I 100YR WS100 + 4' PLAN AND PROFILE STA. 28+00 TO 56+00	98	C-126	BELEN WEST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 672+00 TO 700+00
15	C-301	MOUNTAIN VIEW UNIT LEVEE 100YR WS100 + 4' TYPICAL LEVEE SECTION AND DETAILS	59	C-104	ISLETA WEST UNIT LEVEE LEVEE I 100YR WS100 + 4' PLAN AND PROFILE STA. 56+00 TO 82+00	99	C-127	BELEN WEST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 700+00 TO 728+00
<b>2018 BELEN EAST UNIT LEVEE 100YR WS+5'</b>			60	C-303	ISLETA WEST UNIT LEVEE LEVEE I 100YR WS100 + 4' TYPICAL LEVEE SECTION AND DETAILS	100	C-128	BELEN WEST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 728+00 TO 756+00
16	C-100A	BELEN EAST UNIT LEVEE 100YR WS100 + 5' HORIZONTAL CONTROL A	<b>2018 ISLETA WEST UNIT LEVEE II 100YR WS+4'</b>			101	C-129	BELEN WEST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 756+00 TO 784+00
17	C-100B	BELEN EAST UNIT LEVEE 100YR WS100 + 5' HORIZONTAL CONTROL B	61	C-100	ISLETA WEST UNIT LEVEE LEVEE II 100YR WS100 + 4' HORIZONTAL CONTROL	102	C-130	BELEN WEST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 784+00 TO 812+00
18	C-100C	BELEN EAST UNIT LEVEE 100YR WS100 + 5' HORIZONTAL CONTROL C	62	C-101	ISLETA WEST UNIT LEVEE LEVEE II 100YR WS100 + 4' KEY PLAN	103	C-131	BELEN WEST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 812+00 TO 840+00
19	C-101	BELEN EAST UNIT LEVEE 100YR WS100 + 5' KEY PLAN	63	C-102	ISLETA WEST UNIT LEVEE LEVEE II 100YR WS100 + 4' PLAN AND PROFILE STA. 0+00 TO 28+00	104	C-132	BELEN WEST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 840+00 TO 868+00
20	C-102	BELEN EAST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 0+00 TO 28+00	64	C-103	ISLETA WEST UNIT LEVEE LEVEE II 100YR WS100 + 4' PLAN AND PROFILE STA. 28+00 TO 56+00	105	C-133	BELEN WEST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 868+00 TO 896+00
21	C-103	BELEN EAST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE STA. 28+00 TO 56+00	65	C-104	ISLETA WEST UNIT LEVEE LEVEE II 100YR WS100 + 4' PLAN AND PROFILE STA. 56+00 TO 84+00	106	C-134	BELEN WEST UNIT LEVEE 100YR WS100 + 5' PLAN AND PROFILE

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Plot Scale: 1"=12'	Plot Date: AUGUST 2015
SOL/CONTRACT NO.	
PROJECT NO.	
	

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DRAWN BY:
SEE COVER
REVIEWED BY:
SEE COVER

CORPS OF ENGINEERS  
ALBUQUERQUE, NEW MEXICO

## MIDDLE RIO GRANDE FLOOD PROTECTION PROJECT BERNALILLO TO BELÉN LEVEES

SHEET NO.  
G-002  
2 OF 3

SEQUENCE NO.  
2



BERNALILLO COUNTY, NEW MEXICO

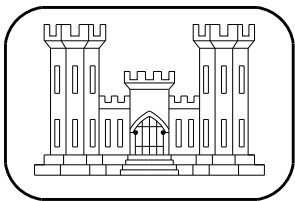
# RIO GRANDE FLOODWAY

RECOMMENDED PLAN FOR

# 2018 MOUNTAIN VIEW UNIT LEVEE 100YR WS+4'

SOLICITATION NO. : XXXX

DATED : 2018



United States Army  
Corps of Engineers

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# Albuquerque District



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PROJECT MANAGEMENT		
CORINNE O'HARE, P.L.A.		PROJECT MANAGER

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SUBMITTED:  
  
CHIEF, DESIGN BRANCH

APPROVED:  
  
CHIEF, ENGINEERING AND CONSTRUCTION DIVISION

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MIDDLE RIO GRANDE LEVEE, BERNALILLO COUNTY, NEW MEXICO, CONTRACT NO.




# MRG BERNALILLO TO BELEN LEVEE FEASABILITY STUDY

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[illegible]

Plot Scale: 1"=12'	Plot Date: AUGUST 2015
SOL/CONTRACT NO.	
PROJECT NO.	
	

SEE COVER
DRAWN BY:
SEE COVER
REVIEWED BY:
SEE COVER

CORPS OF ENGINEERS  
ALBUQUERQUE, NEW MEXICO

## INDEX OF DRAWINGS

SHEET NO.  
G-002  
2 OF 3

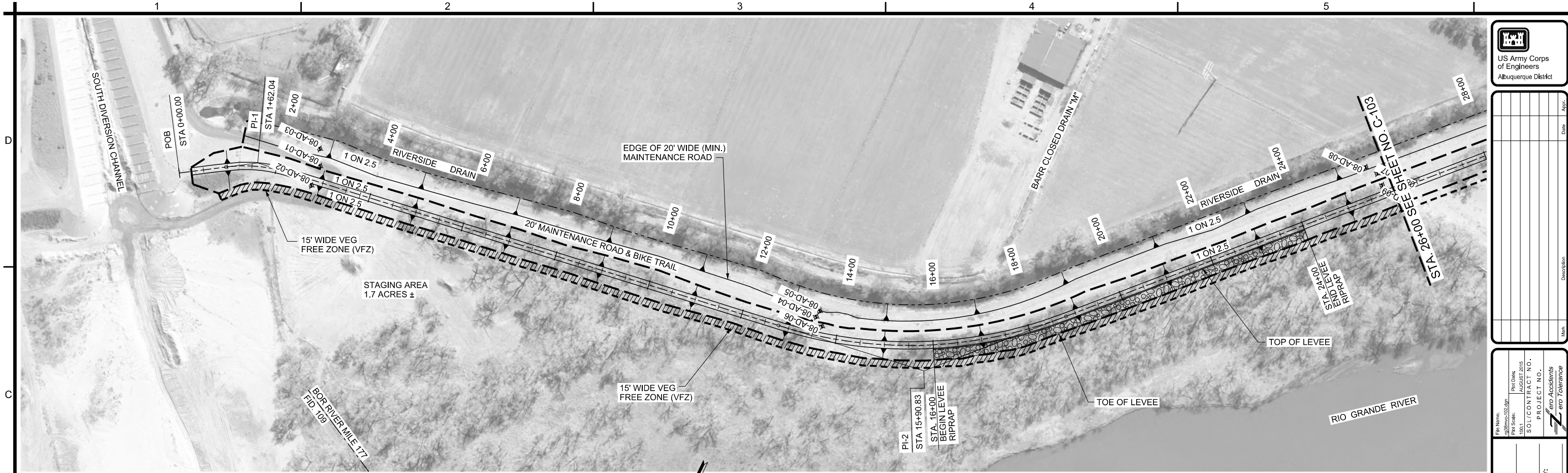
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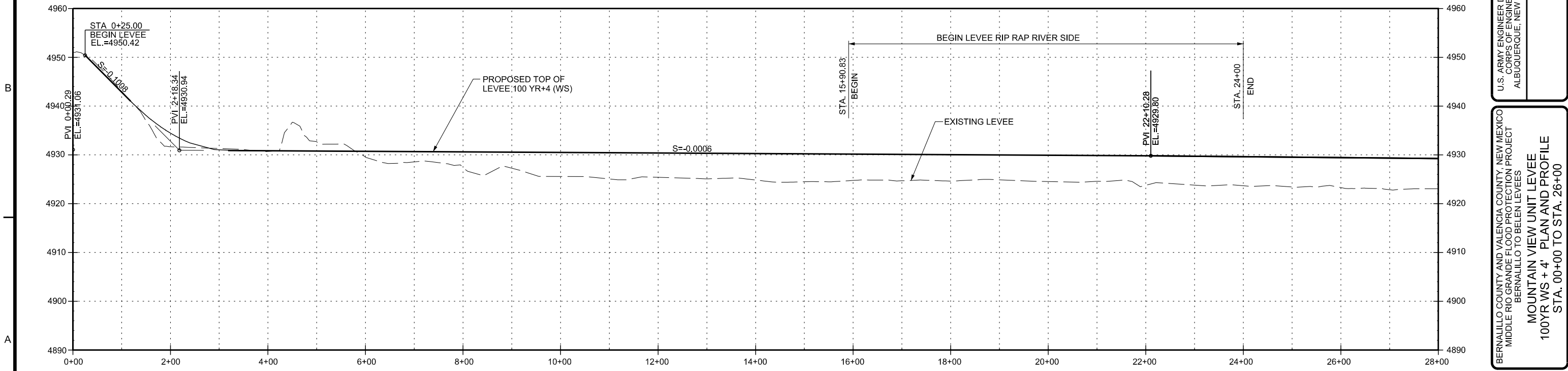




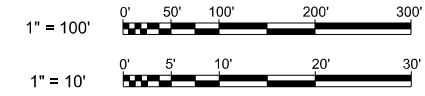
**PLAN**  
SCALE: 1" = 100'

**LEGEND**

ad-09-1106 BORE HOLE LOCATION



**PROFILE**  
SCALE: HORIZ: 1" = 100'  
VERT: 1"=10'



US Army Corps  
of Engineers  
Albuquerque District

Mark	Date	Appr.

File Name: C:\p10\mexico\102.dgn  
Plot Date: AUGUST 2015  
Plot Scale: 100:1  
SOL/CONTRACT NO.:  
PROJECT NO.:  
ero Accidents  
ero Tolerance

DESIGN BY:  
SEE COVER

DRAWN BY:  
SEE COVER

REVIEWED BY:  
SEE COVER

U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
ALBUQUERQUE, NEW MEXICO

BERNALILLO COUNTY AND VALENCIA COUNTY, NEW MEXICO  
MIDDLE RIO GRANDE FLOOD PROTECTION PROJECT  
BERNALILLO TO BELEN LEVEES  
**MOUNTAIN VIEW UNIT LEVEE**  
100YR WS + 4' PLAN AND PROFILE  
STA. 00+00 TO STA. 26+00

SHEET NO.  
**C-102**  
3 OF 12

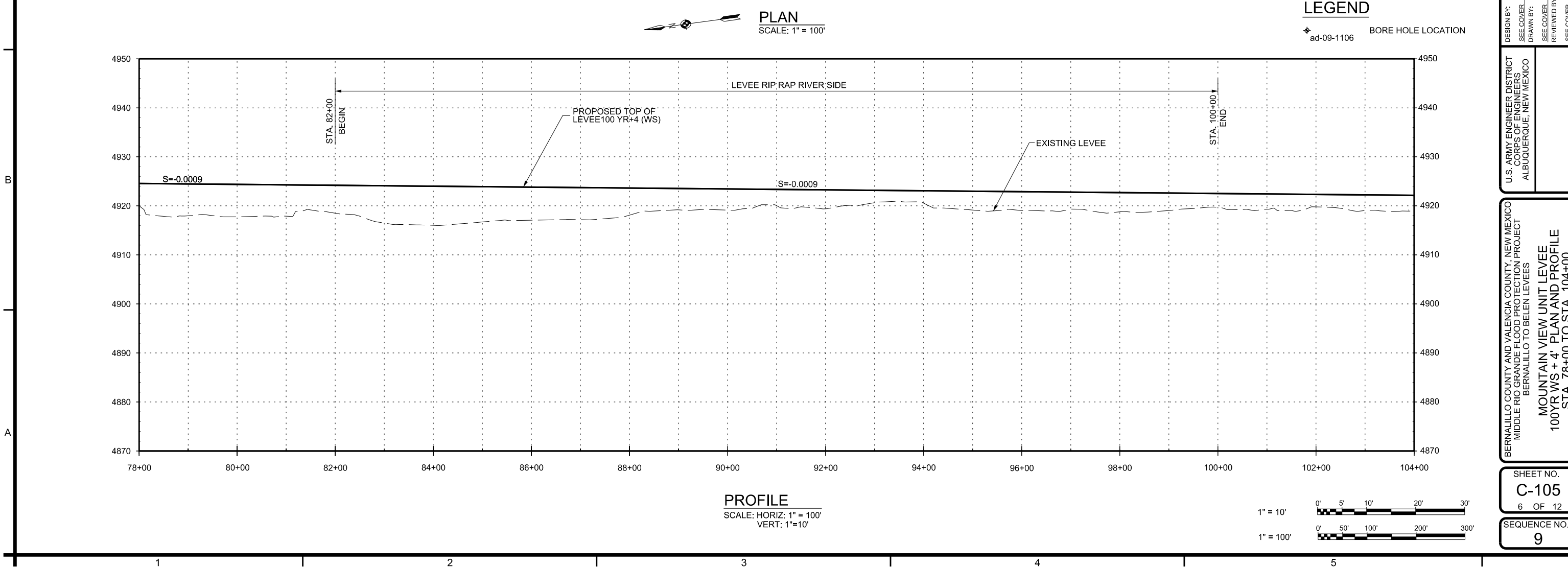
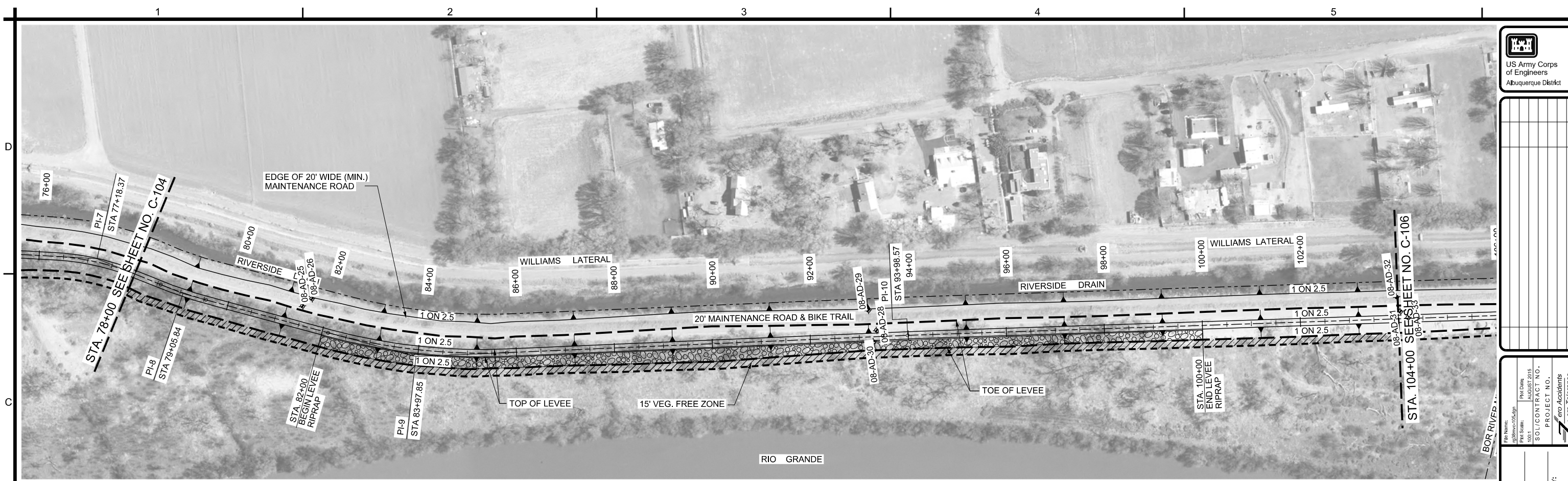
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US Army Corps  
of Engineers  
Albuquerque District

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Proj Scale: 100:1  
Proj Date: AUGUST 2015  
SOL/CONTRACT NO.:  
PROJECT NO.:  
Reviewed By:   
See Cover

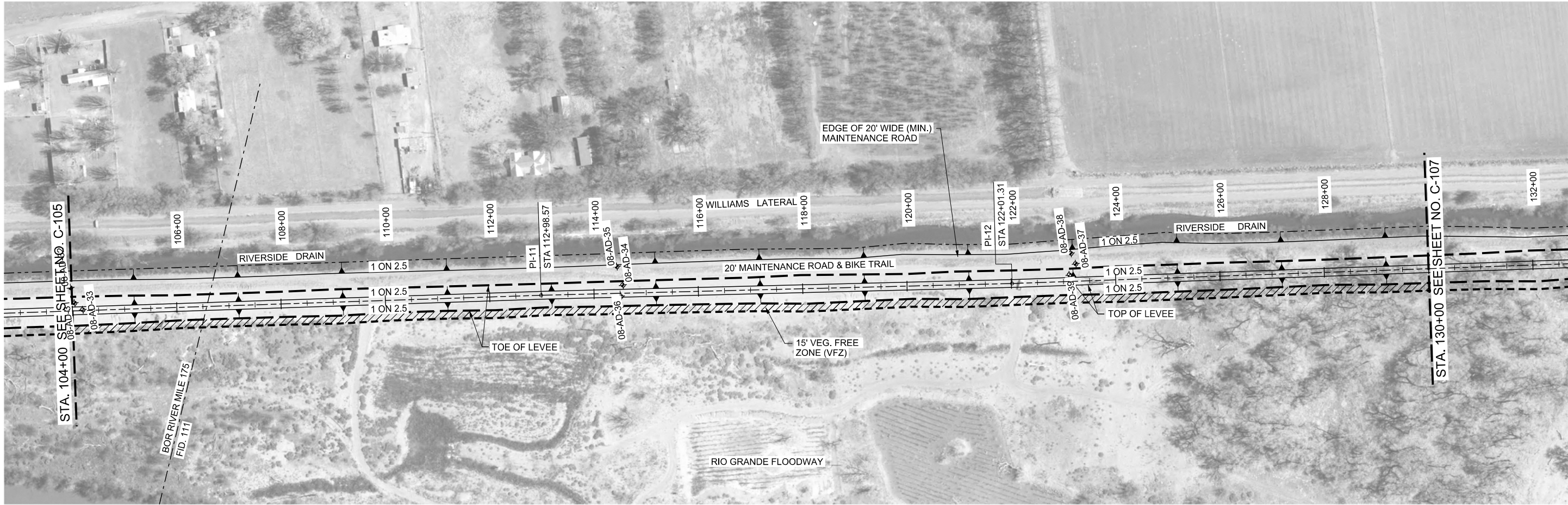
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See Cover  
DRAWN BY:   
See Cover  
REVIEWED BY:   
See Cover

BERNALILLO COUNTY AND VALENCIA COUNTY, NEW MEXICO  
MIDDLE RIO GRANDE FLOOD PROTECTION PROJECT  
BERNALILLO TO BELEN LEVEES  
MOUNTAIN VIEW UNIT LEVEE  
100YR WS + 4' PLAN AND PROFILE  
STA. 78+00 TO STA. 104+00

SHEET NO.  
**C-105**  
6 OF 12

SEQUENCE NO.  
**9**

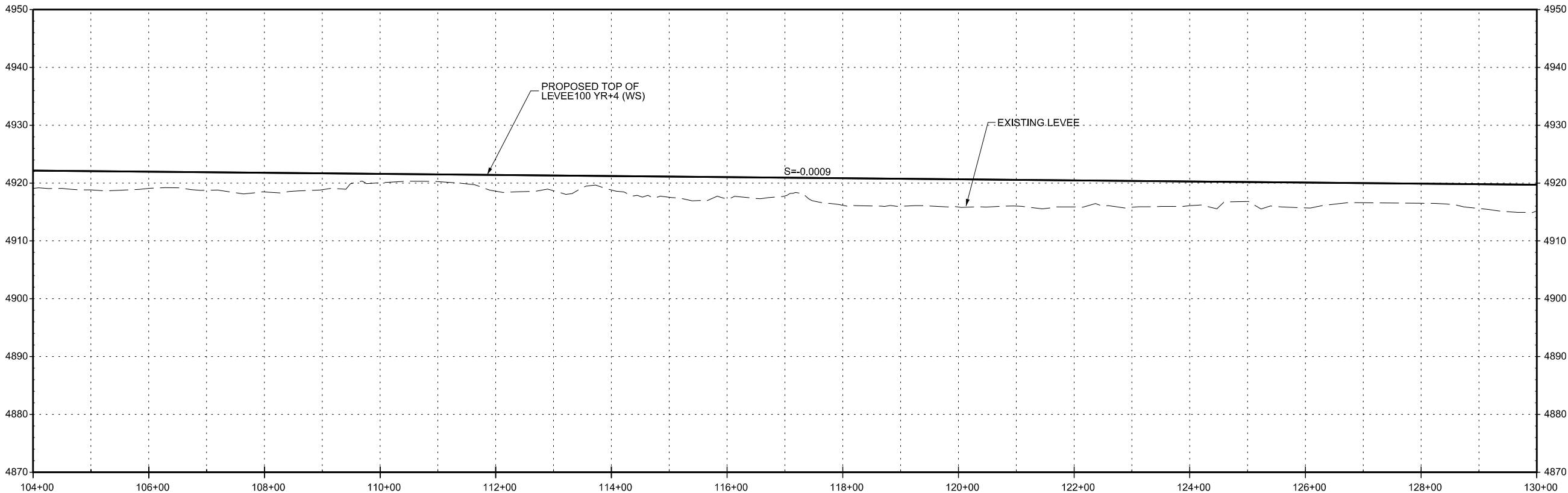




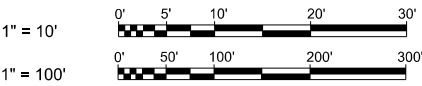
PLAN  
SCALE: 1" = 100'

LEGEND

ad-09-1106 BORE HOLE LOCATION



PROFILE  
SCALE: HORIZ: 1" = 100'  
VERT: 1"=10'



US Army Corps of Engineers  
Albuquerque District

Mark	Description	Date	Appr.

File Name: C:\Bimac-08.dgn  
Plot Scale: 100:1  
Plot Date: AUGUST 2015  
SOL/CONTRACT NO.:  
PROJECT NO.:  
ero Accidents  
ero Tolerance

DESIGN BY:  
SEE COVER  
DRAWN BY:  
SEE COVER  
REVIEWED BY:  
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U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
ALBUQUERQUE, NEW MEXICO

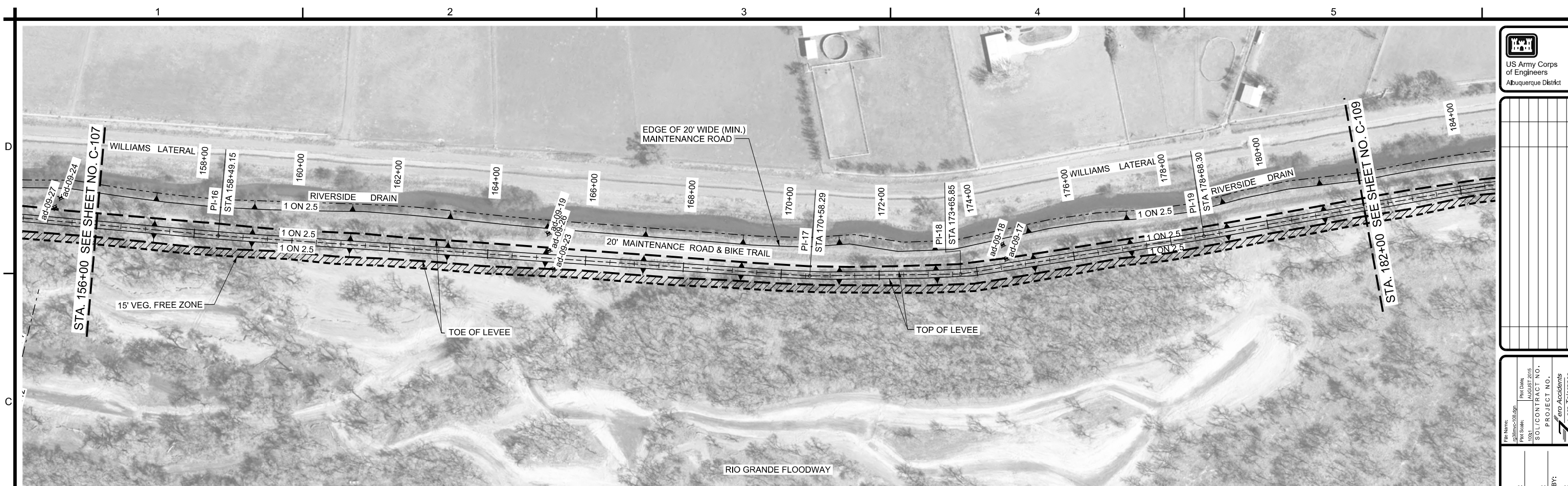
BERNALILLO COUNTY AND VALENCIA COUNTY, NEW MEXICO  
MIDDLE RIO GRANDE FLOOD PROTECTION PROJECT  
BERNALILLO TO BELEN LEVEES  
MOUNTAIN VIEW UNIT LEVEE  
100YR WS + 4' PLAN AND PROFILE  
STA. 104+00 TO STA. 130+00

SHEET NO.  
C-106  
7 OF 12

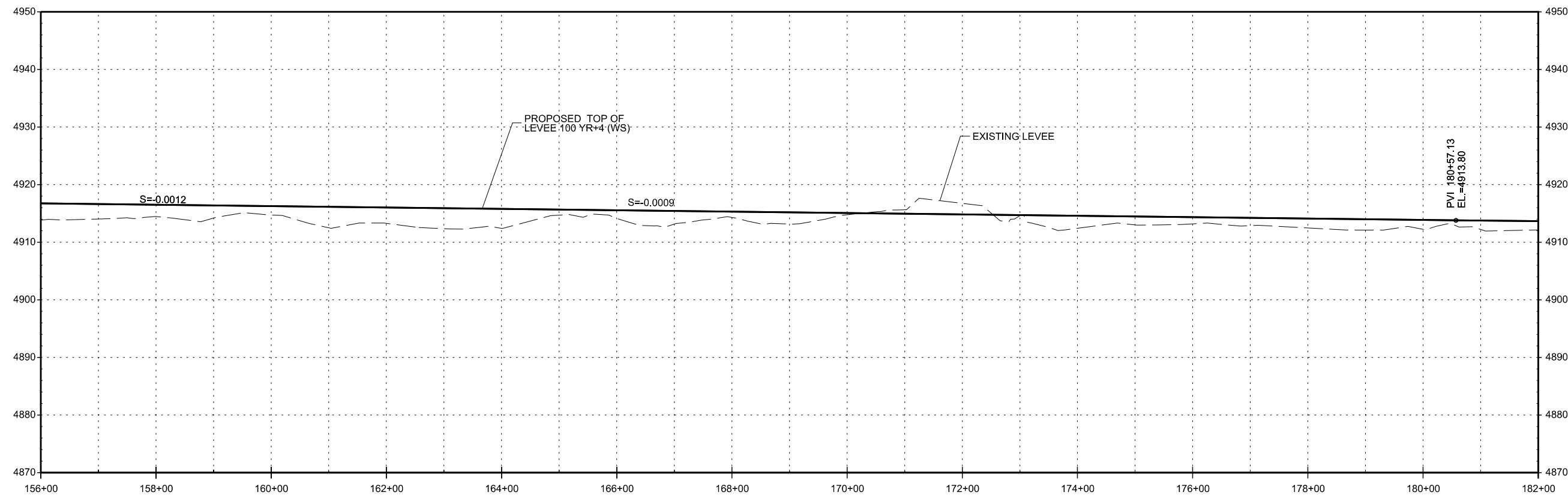
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PLAN  
SCALE: 1" = 100'



PROFILE  
SCALE: HORIZ: 1" = 100'  
VERT: 1"=10'

**LEGEND**

ad-09-1106 BORE HOLE LOCATION

US Army Corps  
of Engineers  
Albuquerque District

Mark	Description	Date	Appr.

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SOL/CONTRACT NO.:  
PROJECT NO.:  
ero Accidents  
ero Tolerance

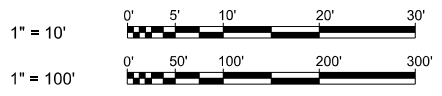
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DRAWN BY: SEE COVER  
REVIEWED BY: SEE COVER

U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
ALBUQUERQUE, NEW MEXICO

BERNALILLO COUNTY AND VALENCIA COUNTY, NEW MEXICO  
MIDDLE RIO GRANDE FLOOD PROTECTION PROJECT  
BERNALILLO TO BELEN LEVEES  
**MOUNTAIN VIEW UNIT LEVEE**  
100YR WS + 4' PLAN AND PROFILE  
STA. 156+00 TO STA. 182+00

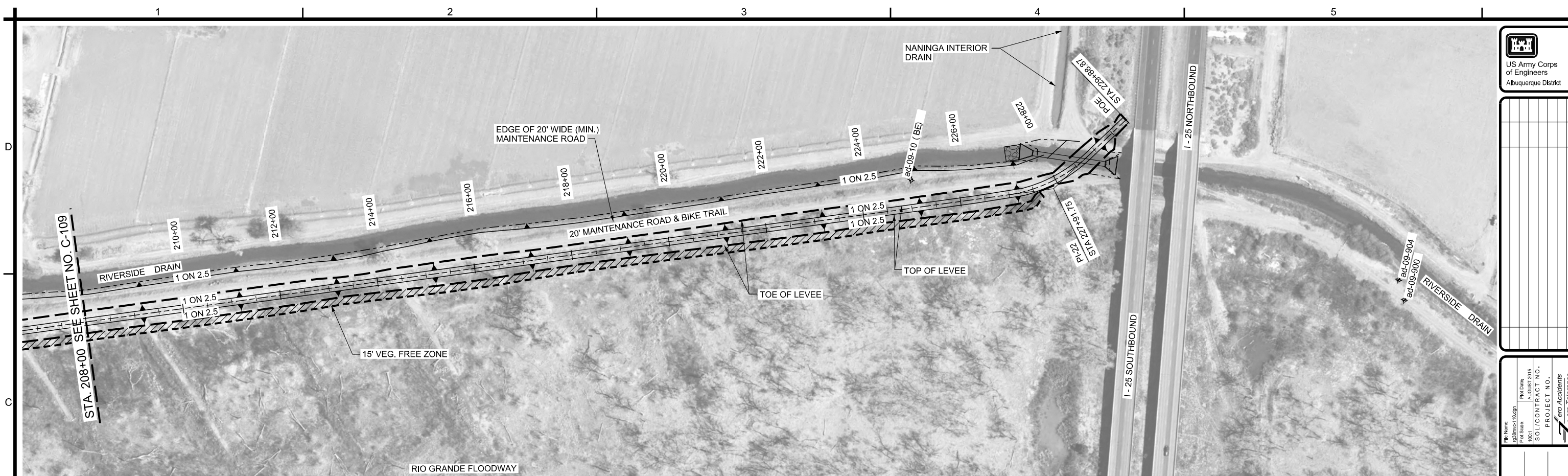
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**C-108**  
9 OF 12

SEQUENCE NO.  
**12**





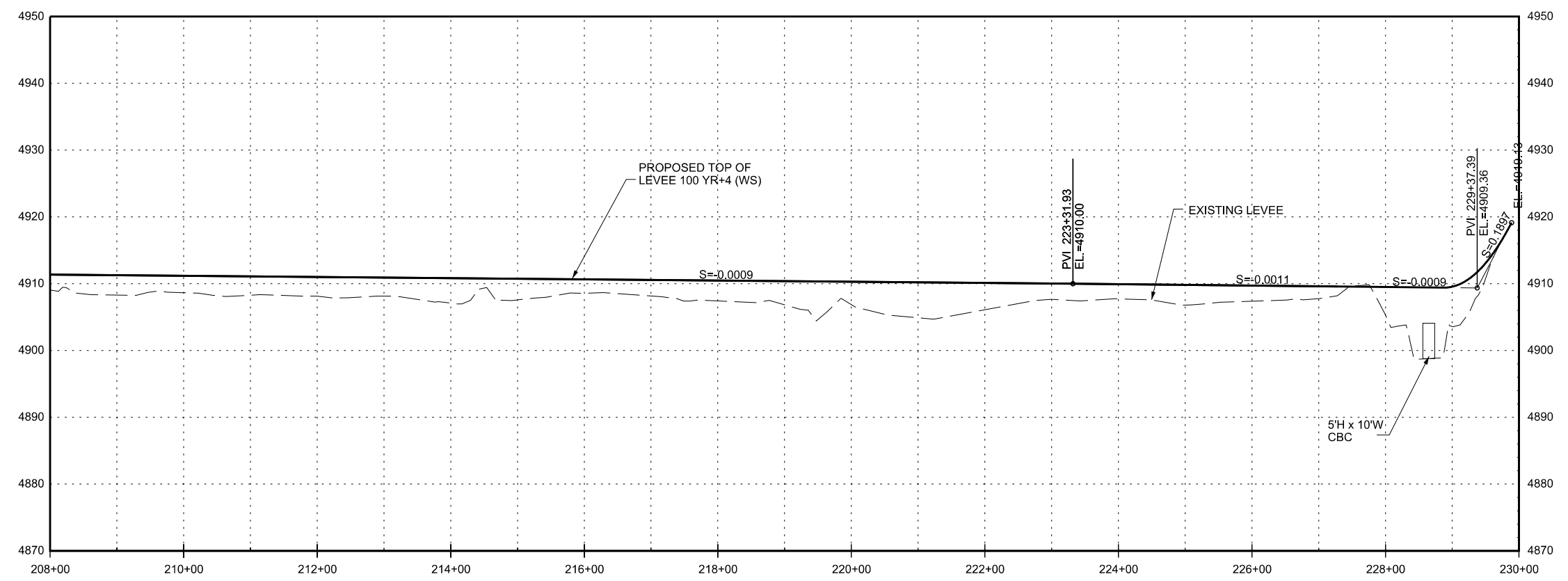




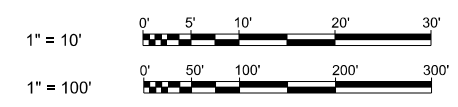
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SCALE: 1" = 100'

**LEGEND**

ad-09-1106 BORE HOLE LOCATION



PROFILE  
SCALE: HORIZ: 1" = 100'  
VERT: 1"=10'



US Army Corps of Engineers  
Albuquerque District

Mark	Description	Date	Appr.

File Name: C:\Users\j10\p\proj\10031\10031.dwg  
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Proj Date: AUGUST 2015  
SOL/CONTRACT NO.:  
PROJECT NO.:  
ero Accidents  
ero Tolerance

DESIGN BY:  
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DRAWN BY:  
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REVIEWED BY:  
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CORPS OF ENGINEERS  
ALBUQUERQUE, NEW MEXICO

BERNALILLO COUNTY AND VALENCIA COUNTY, NEW MEXICO  
MIDDLE RIO GRANDE FLOOD PROTECTION PROJECT  
BERNALILLO TO BELEN LEVEES  
MOUNTAIN VIEW UNIT LEVEE  
100YR WS + 4' PLAN AND PROFILE  
STA. 208+00 TO STA. 230+00

SHEET NO.  
C-110  
11 OF 12

SEQUENCE NO.  
14

