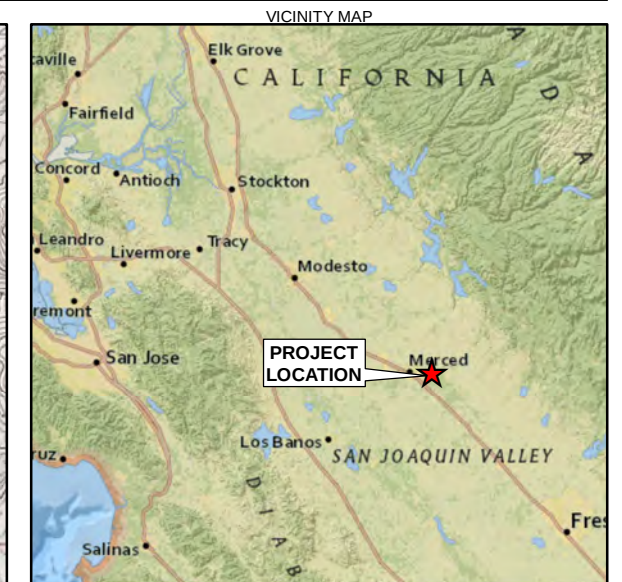
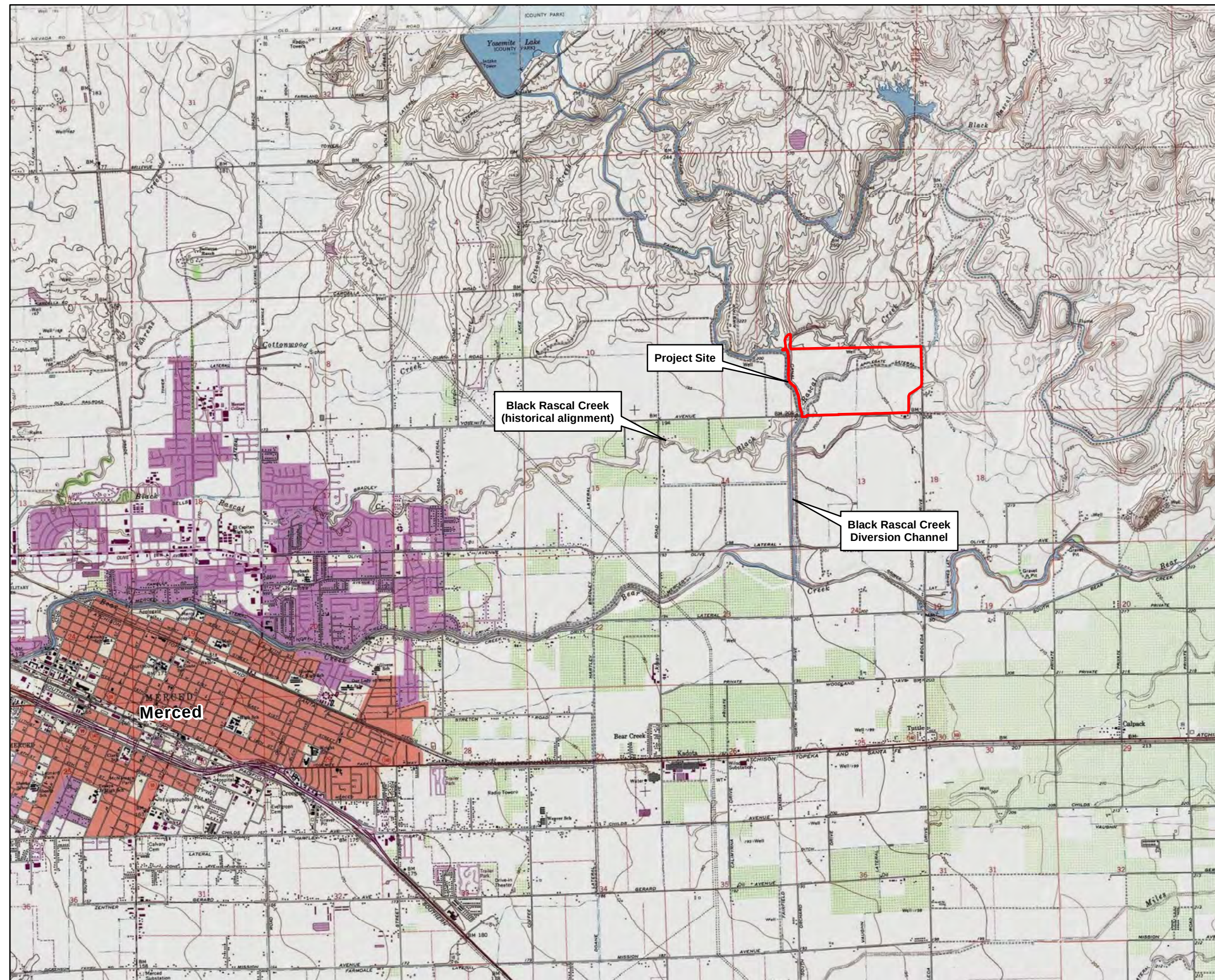




LEGEND
 Project Footprint

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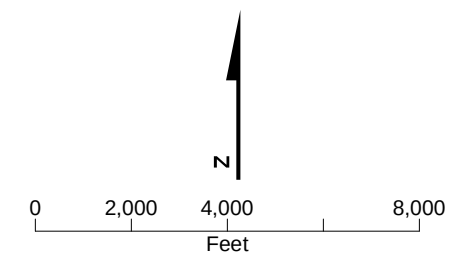


FIGURE 1
Vicinity Map
 Clean Water Act Section 404
 Individual Permit Application
 Black Rascal Creek Flood Control Project

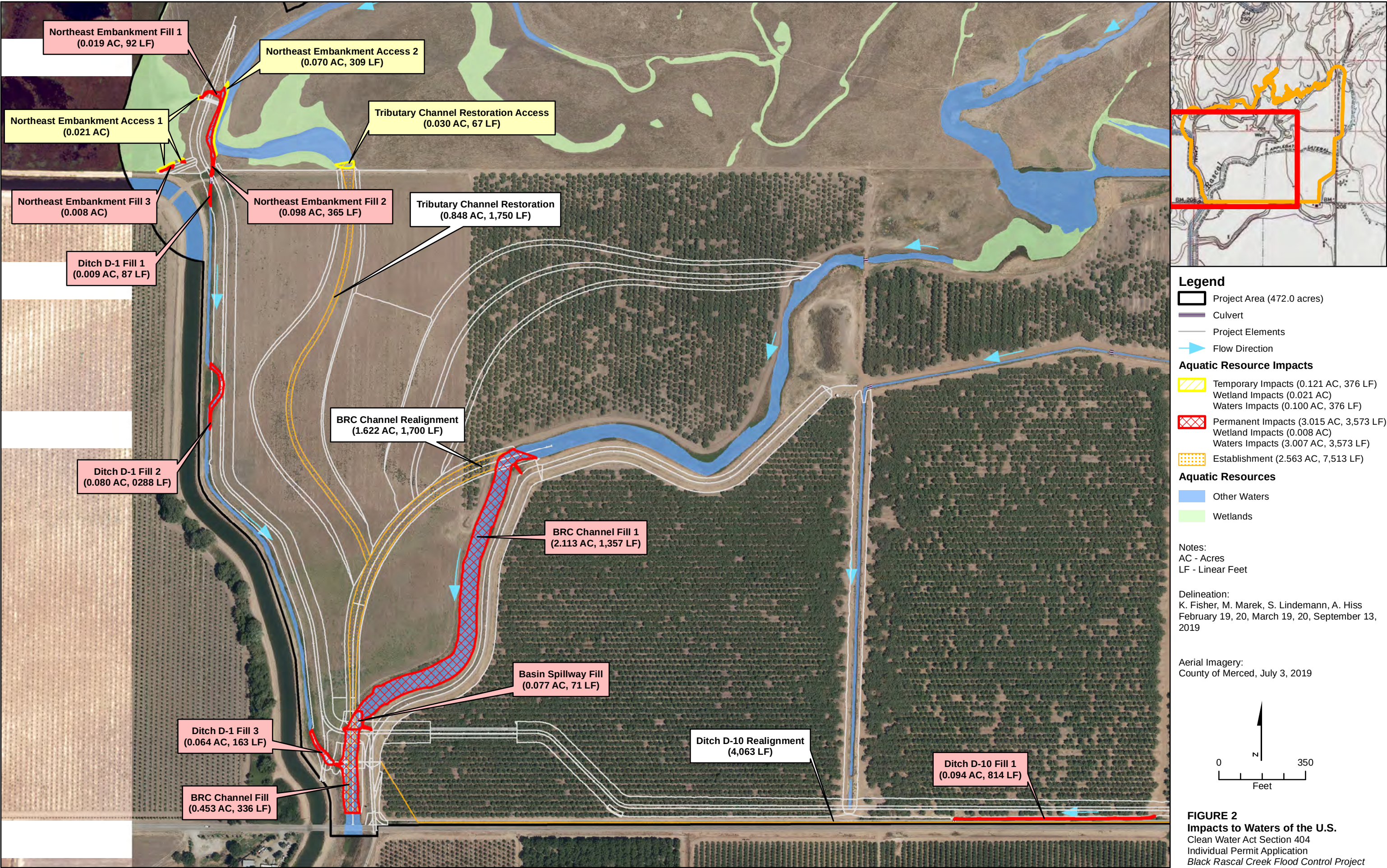


Table 1. Impact Areas, Volume and Type

Resource ID	Impact ID	Temporary Impact	Permanent Impact	Temporary Impact	Permanent Impact	Fill Volume	Fill Type
		(Acres)		(Linear Feet)		(Cubic Yards)	(Cubic Yards)
Wetlands							
EM-01	Northeast Embankment Fill 3	0.000	0.008	NA	NA	6.453	Soil
EM-02	Northeast Embankment Access 1 ¹	0.021	0.000	NA	NA	66.579	Gravel
Sub-Total Wetlands		0.021	0.008	NA	NA	73.032	
Other Waters							
R-01	Northeast Embankment Fill 2	0.000	0.098	0.000	365.000	67.000	Soil
R-01	Northeast Embankment Access 2 ¹	0.070	0.000	309.000	0.000	226.400	Gravel
R-01	Tributary Channel Restoration Access ¹	0.030	0.000	67.000	0.000	97.060	Gravel
R-01a	Northeast Embankment Fill 1	0.000	0.019	0.000	92.000	11.300	Soil
R-04	BRC Channel Fill 1	0.000	2.113	0.000	1357.000	10355.800	Soil
R-04	BRC Channel Fill 2	0.000	0.453	0.000	336.000	468.200	Rock
R-04	Basin Spillway Fill	0.000	0.077	0.000	71.000	336.200	Rock/Concrete
D-01	Ditch D-1 Fill 1	0.000	0.009	0.000	87.000	2.000	Soil
D-01	Ditch D-1 Fill 2	0.000	0.080	0.000	288.000	89.200	Soil
D-01	Ditch D-1 Fill 3	0.000	0.064	0.000	163.000	194.100	Soil
D-10	Ditch D-10 Fill 1	0.000	0.094	0.000	814.000	303.259	Soil
Sub-Total Waters		0.100	3.007	376.000	3573.000	12150.519	
Total		0.121	3.015	376.000	3573.000	12223.552	

¹ Assumes 2 feet of imported fill in access areas

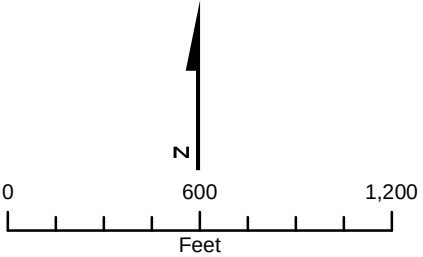
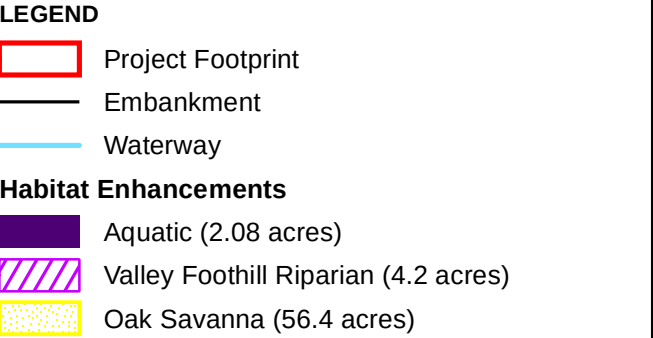
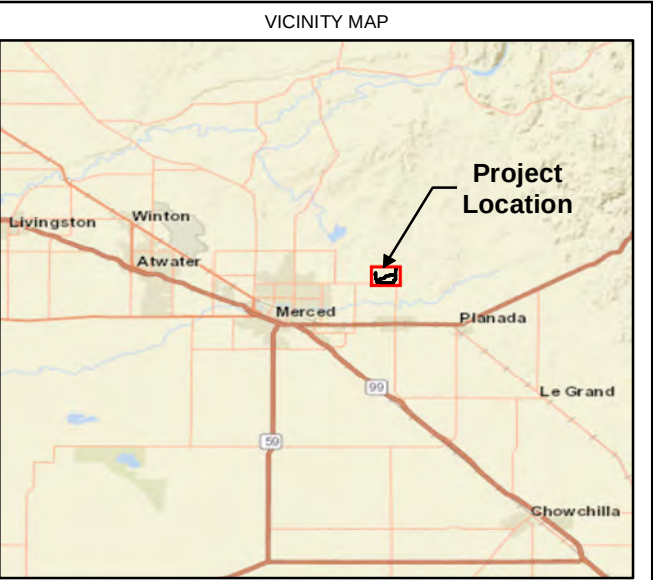
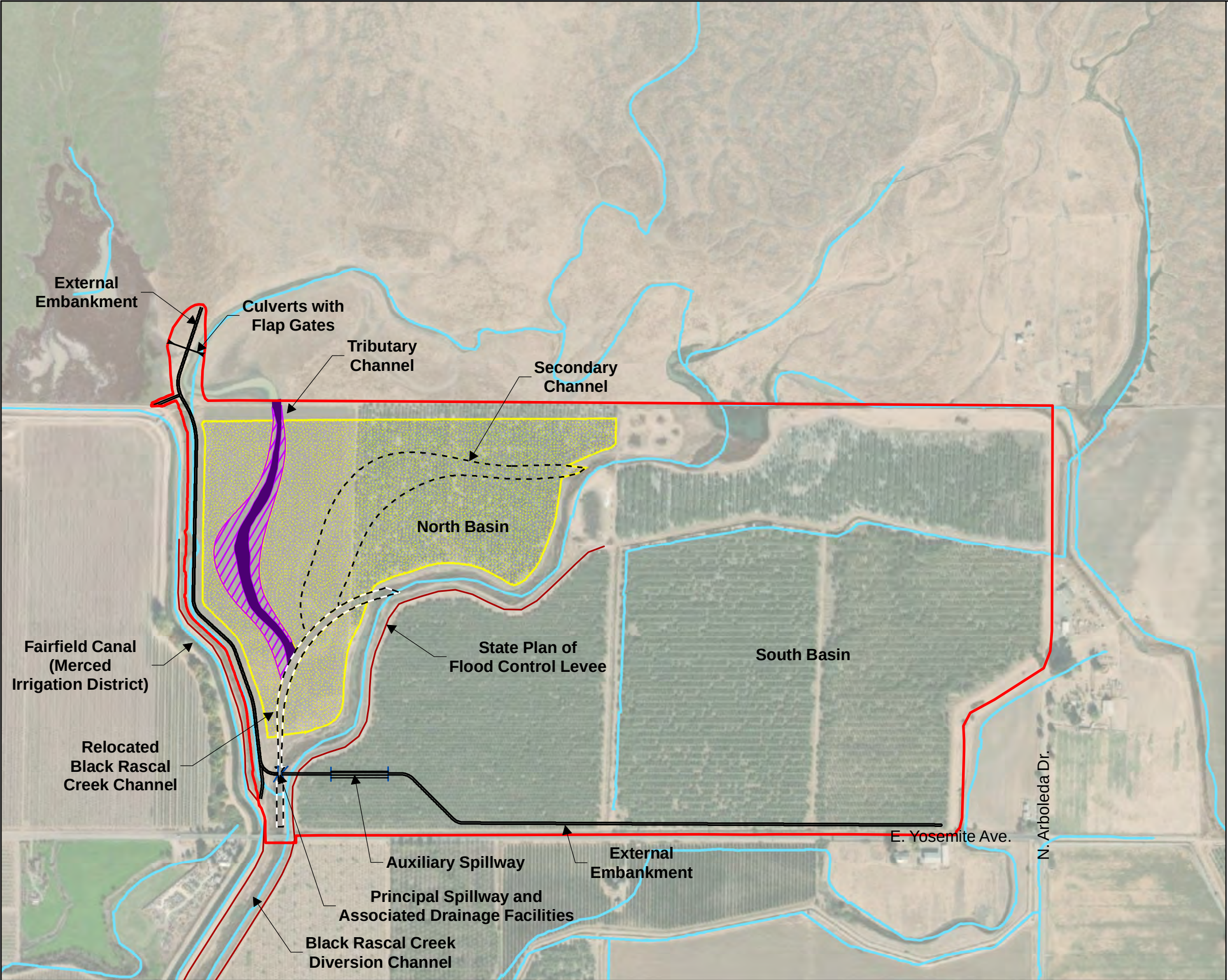
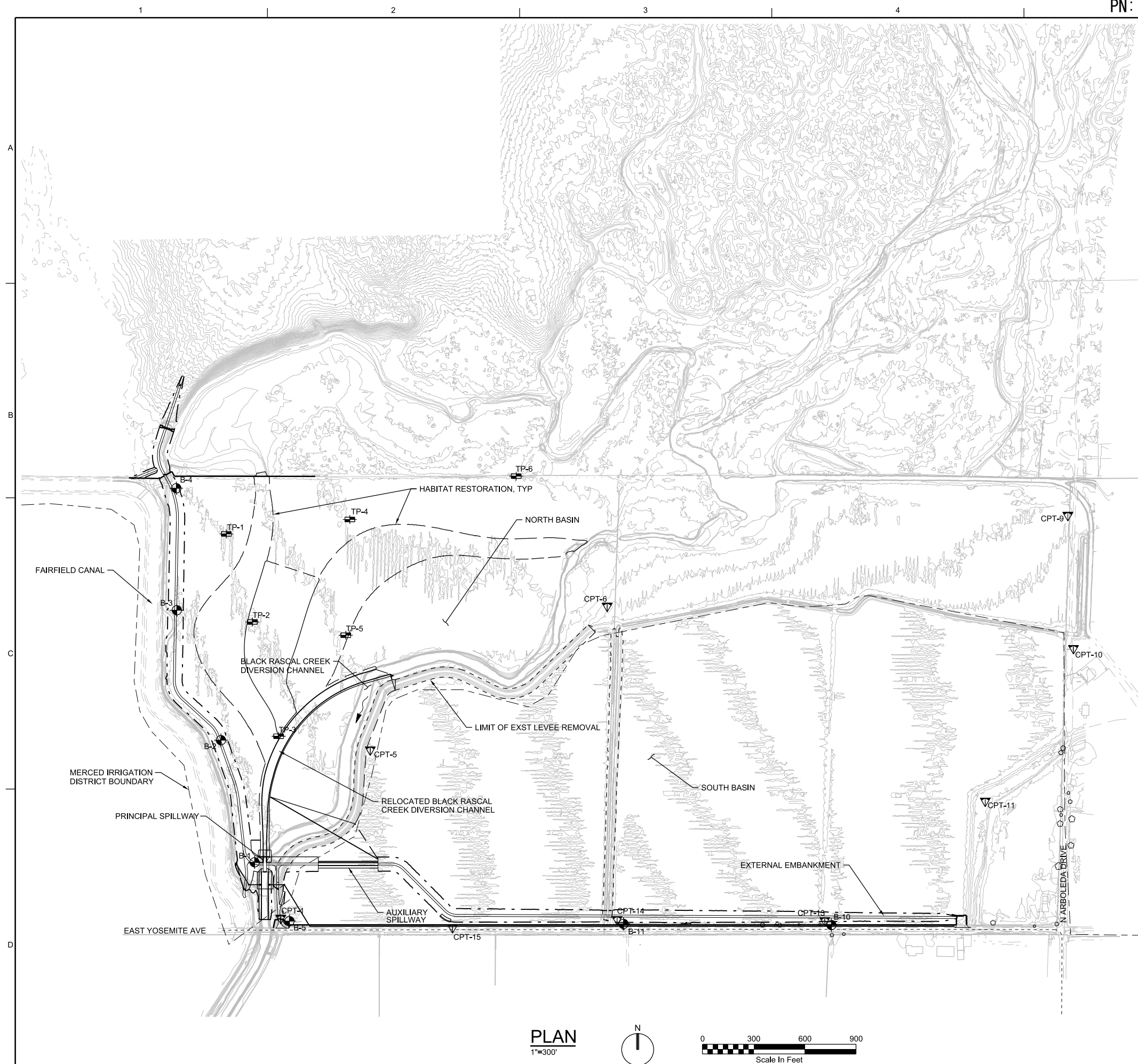


FIGURE 2
Site Plan
Black Rascal Creek Flood Control Project



NUMBER	NORTHING	EASTING	DEPTH (FT)	COMPLETED
CPT-1	1943483	6592463	80	YES
CPT-5	1944470	6592987	40	YES
CPT-6	1945312	6594375	50	YES
CPT-9	1945844	6597074	12	YES
CPT-10	1945064	6597107	50	YES
CPT-11	1944170	6596590	60	YES
CPT-13	1943470	6595650	40	YES
CPT-14	1943476	6594433	60	YES
CPT-15	1943429	6593469	60	YES
B-1	1943819	6592310	77	YES
B-2	1944534	6592112	61	YES
B-3	1945295	6591854	52	YES
B-4	1946010	6591851	50	YES
B-5	1943474	6592514	57	YES
B-10	1943451	6595689	57	YES
B-11	1943458	6594471	56	YES
TP-1	1945742	6592144	8	YES
TP-2	1945226	6592296	9	YES
TP-3	1944557	6592450	9	YES
TP-4	1945827	6592867	8	YES
TP-5	1945149	6592844	8	YES
TP-6	1946081	6593842	8	YES

NOTE:

1. BORING LOCATIONS ARE APPROXIMATE, LOCATED USING HAND HELD GPS DEVICE WITH APPROXIMATE ACCURACY OF +/- 15 FEET, AND VISUAL SITING OF THE BORING LOCATIONS IN RELATION TO SURROUNDING FEATURES.

MARK R. TWEDE
CA GE2642

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1"=300'

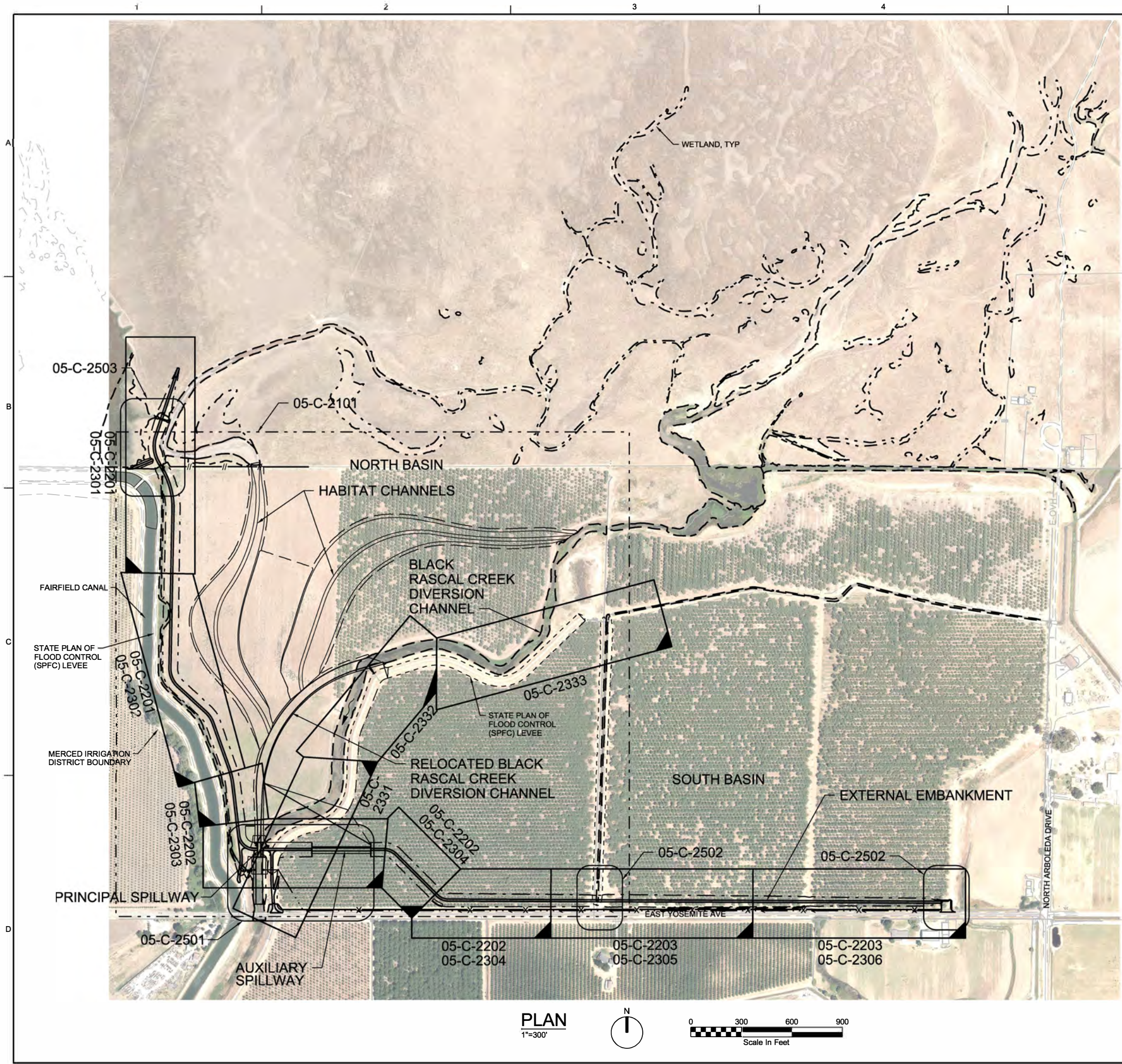
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DATE	SEPTEMBER 2021
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PROJ	W8Y00700
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DWG	03-B-2001
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PN: SPK-2021-00278

LEGEND

PLAN WINDOW

DWG #

DRAWING NUMBER

INDICATES LOWER RIGHT HAND CORNER OF PLAN WINDOW

2525 AIRPARK DR
REDDING, CA 96001
(530) 243-5831

BLACK RASCAL CREEK
FLOOD CONTROL PROJECT
MERCED COUNTY
MERCED, CA

OVERALL SITE AND KEY PLAN

DATE: SEPTEMBER 2021

PROJ: W8Y00700

DWG: 05-C-2001

SHEET: 11 of 60

1"=300'

VERIFY SCALE

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0 1"

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CA C59851
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NO. DATE DSGN

BY APVD

REVISION

CHK

DR

B. CHELONIS

L. ALLIGER

B. CHELONIS

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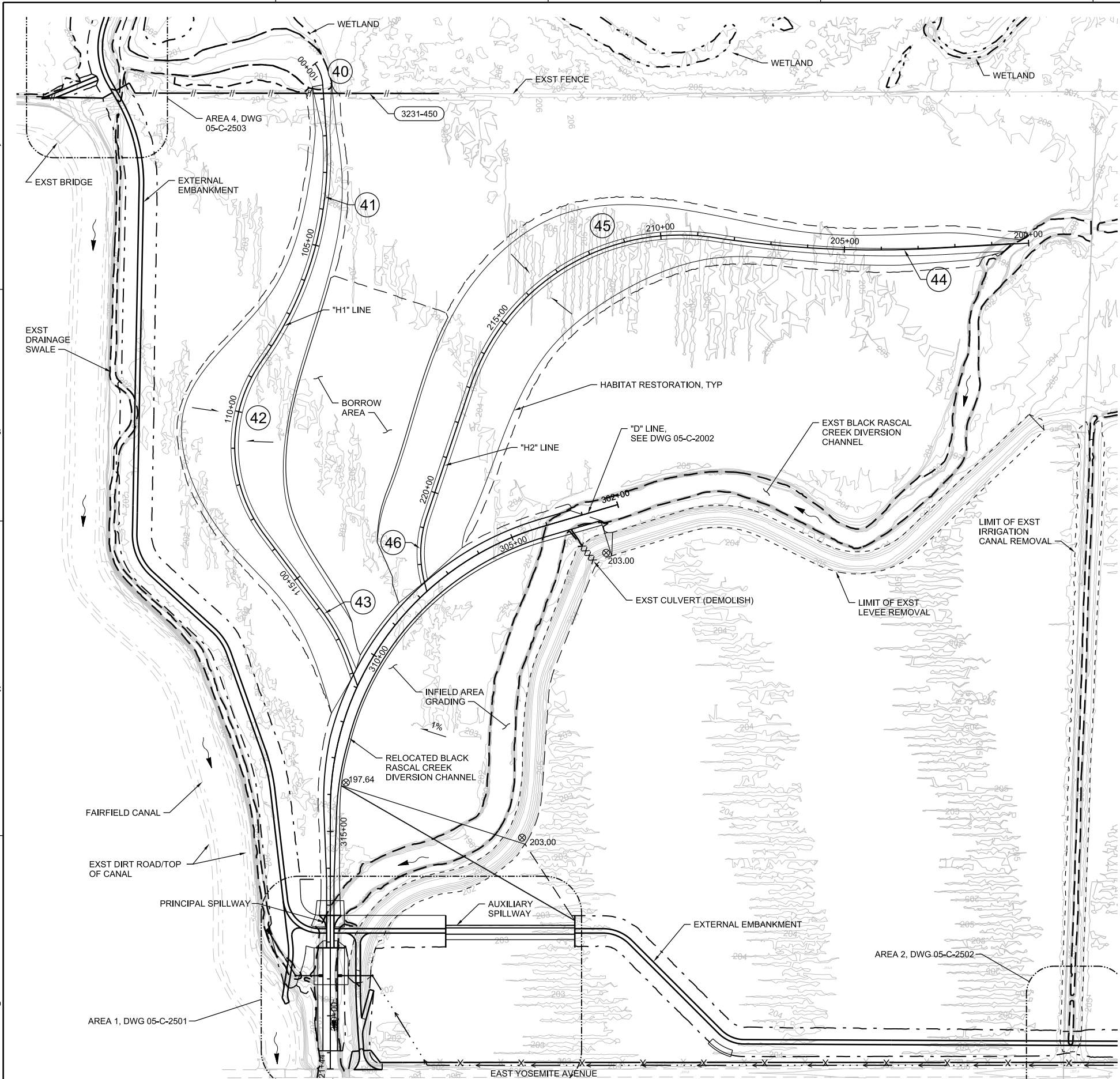
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PLOT DATE: 9/30/2021

PLOT TIME: 12:30:15 PM



CONTROL LINE DATA								
ALIGNMENT	TYPE	STATION	NORTHING	EASTING	DELTA	RADIUS	LENGTH	TANGENT
"H1" LINE	POB/PC	100+00.00	1946160.00	6592328.09				
	(40)				33°31'22"	100'	58.51'	30.12'
	PT	100+58.51	1946106.15	6592348.75				
	PC	101+88.03	1945976.98	6592358.29				
	(41)				39°41'40"	950'	658.16'	342.90'
	PRC	108+46.18	1945355.74	6592184.56				
	(42)				72°25'14"	400'	505.59'	292.87'
	PT	113+51.78	1944883.18	6592190.67				
	PC	116+11.82	1944675.37	6592346.98				
	(43)				17°13'44"	500'	150.35'	75.75'
"H2" LINE	PT	117+62.17	1944543.53	6592418.08				
	POE	118+37.29	1944472.82	6592443.43				
	POB	200+00.00	1945673.68	6594263.04				
	PC	202+50.00	1945659.62	6594013.44				
	(44)				11°57'22"	2900'	605.16'	303.68'
	PRC	208+55.16	1945688.66	6593410.08				
	(45)				80°08'51"	600'	839.30'	504.78'
	PT	216+94.46	1945286.85	6592750.27				
	PC	220+69.06	1944931.79	6592630.87				
	(46)				33°11'05"	310'	179.55'	92.37'
"D" LINE	PT	222+48.61	1944754.84	6592624.72				
	POE	222+75.27	1944729.04	6592631.44				

BECKY K. CHELONIS
CA C59851
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NO. DATE

DR

CHK

REVISION

APVD

BY

APVD

B CHELONIS
J MESTEMACHER
L ALLIGER

2525 AIRPARK DR
REDDING, CA 96001
(530) 243-5831

BLACK RASCAL CREEK
FLOOD CONTROL PROJECT
MERCED COUNTY
MERCED, CA

CIVIL
SITE GRADING PLAN

1"=300'
VERIFY SCALE
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DATE SEPTEMBER 2021
PROJ W8Y00700
DWG 05-C-2101
SHEET 14 of 60

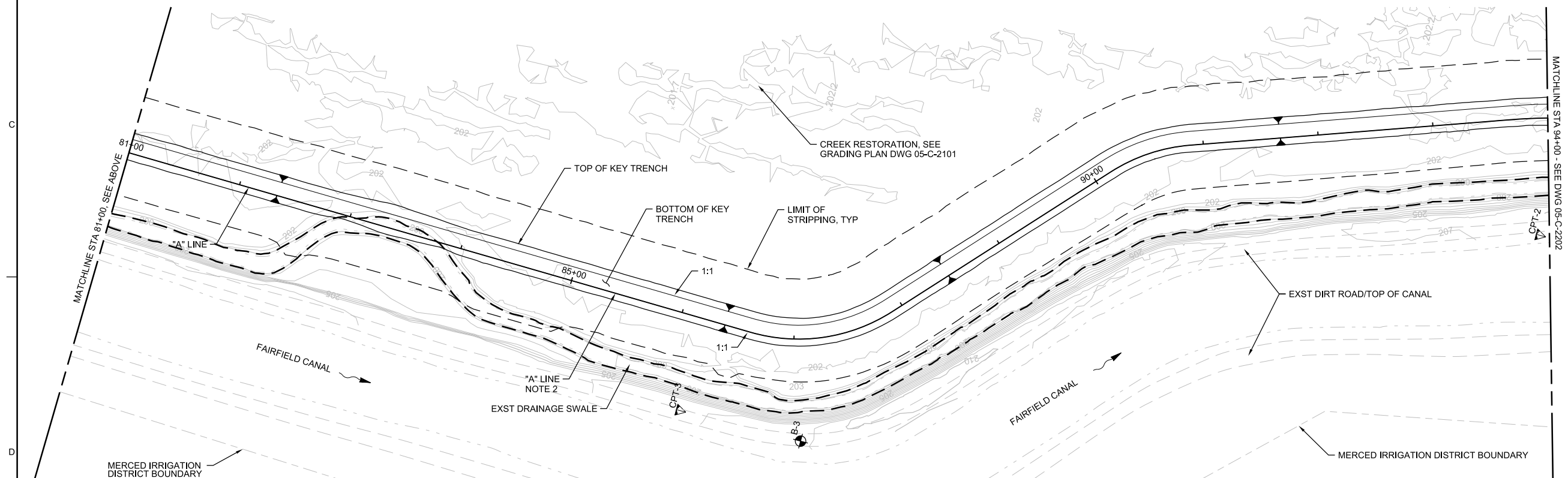
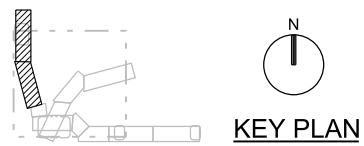
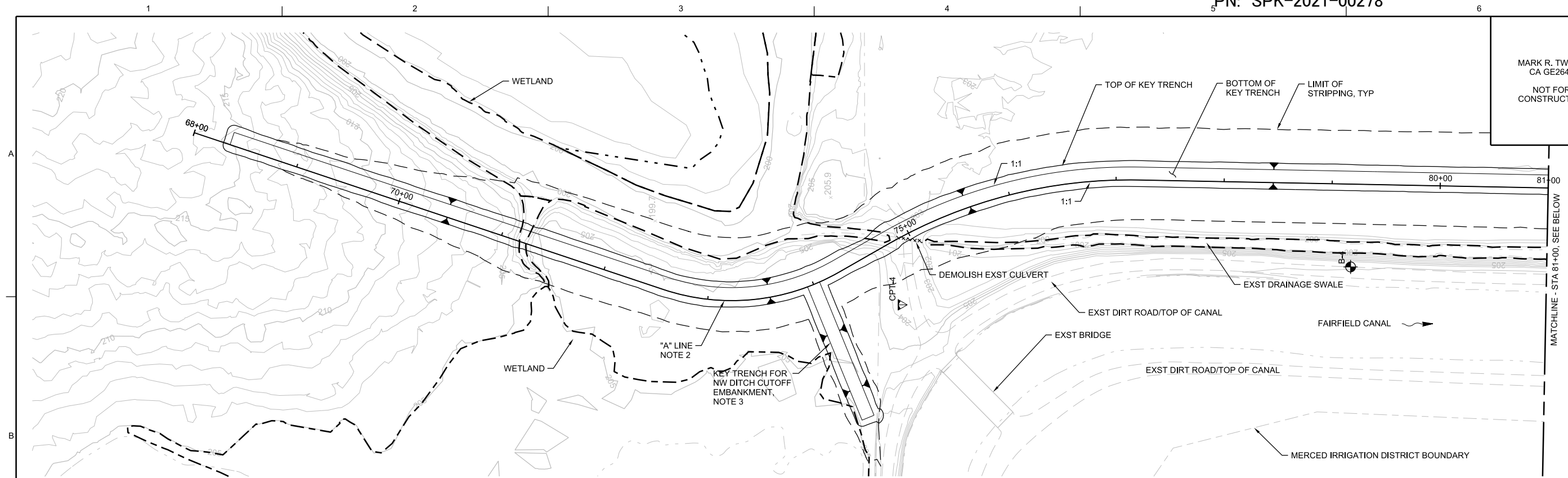
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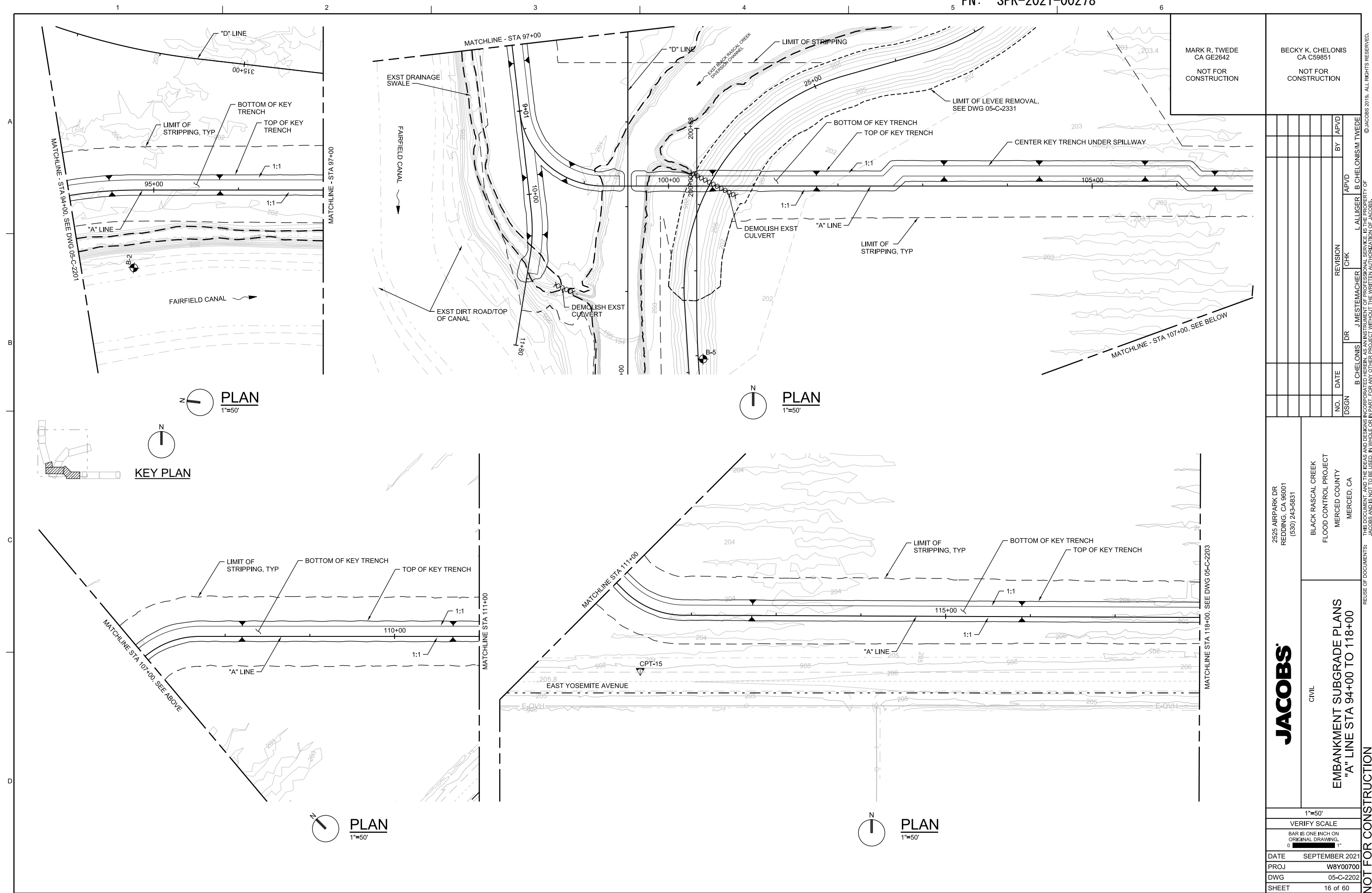
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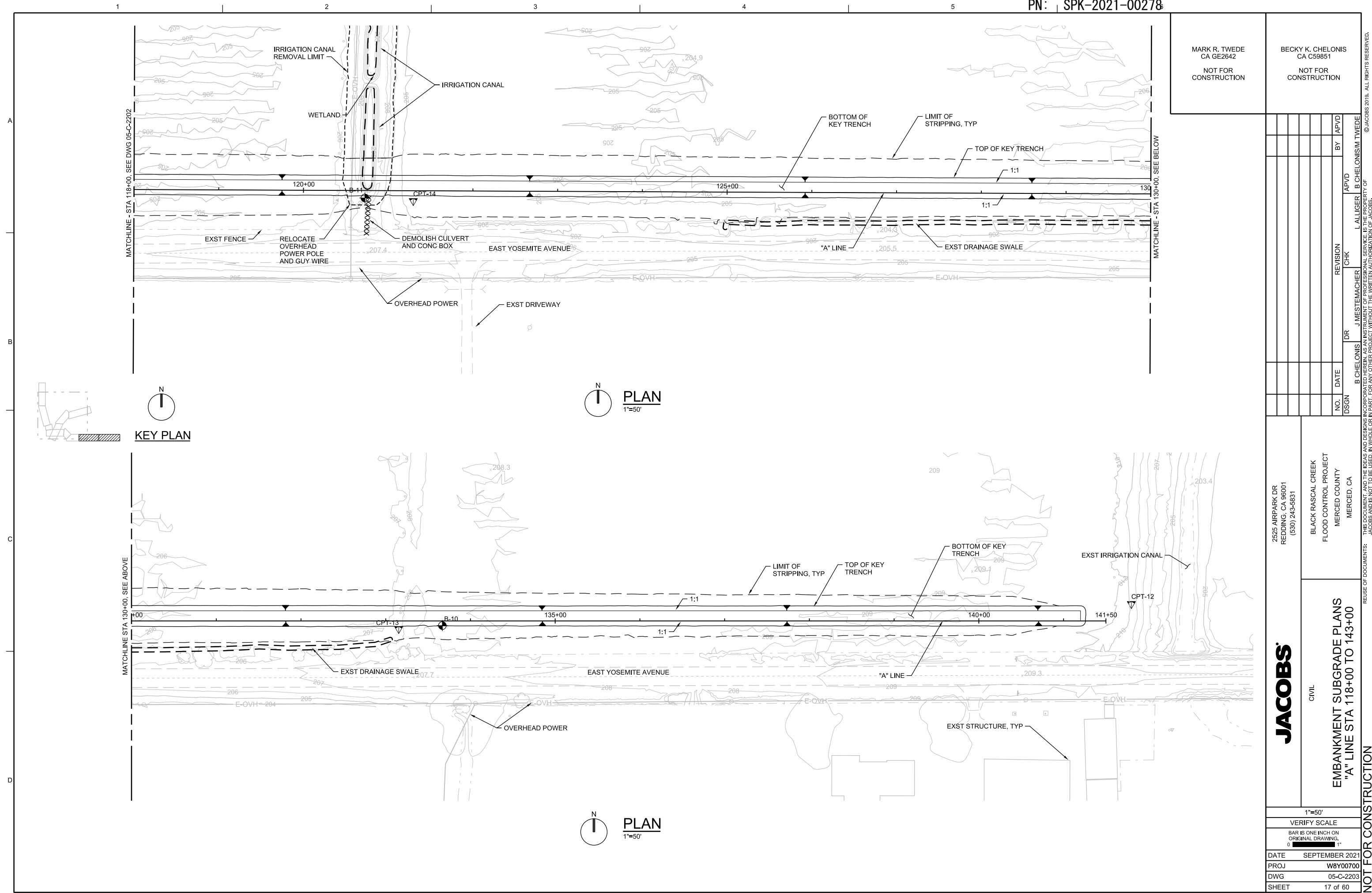
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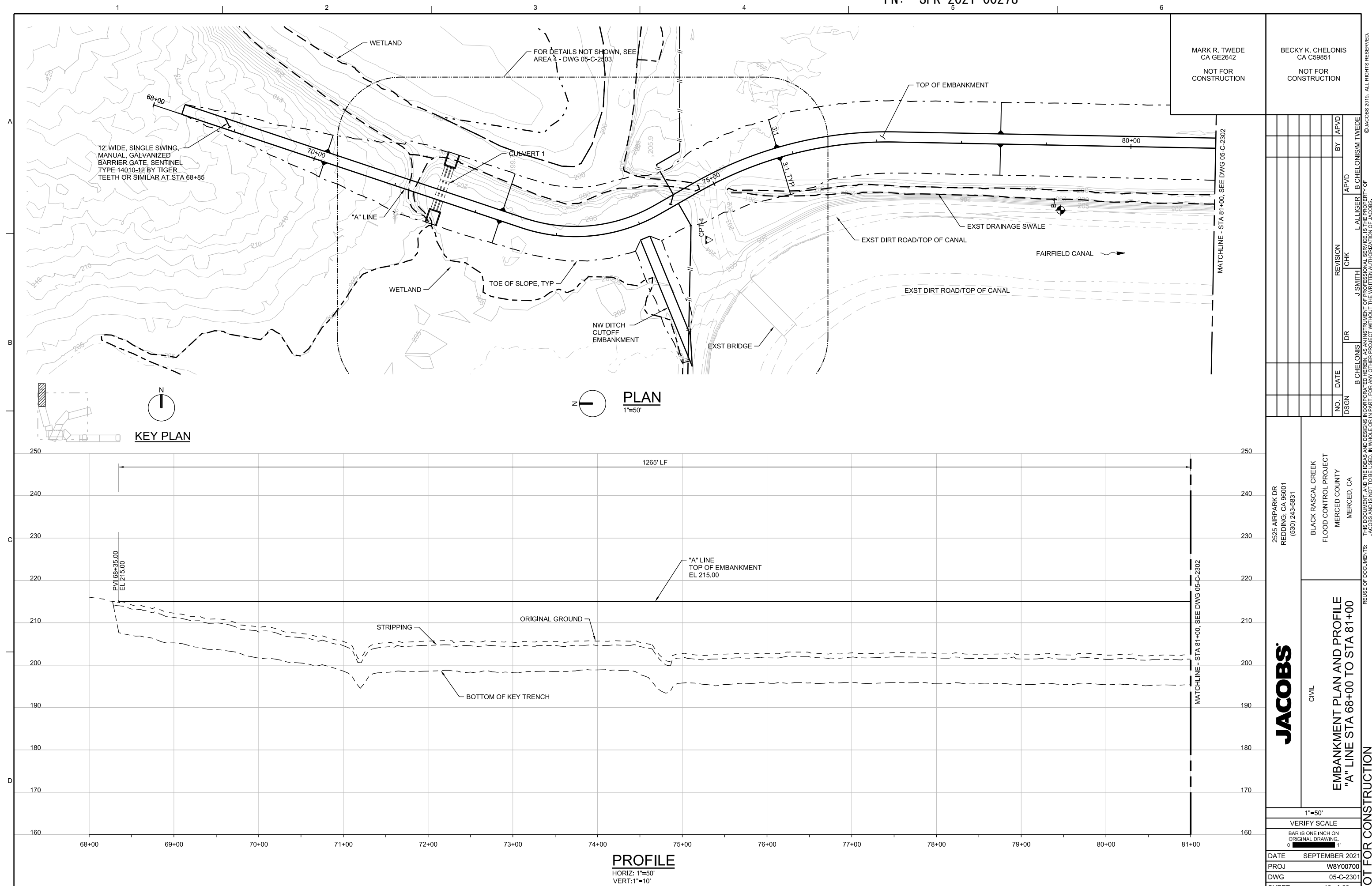
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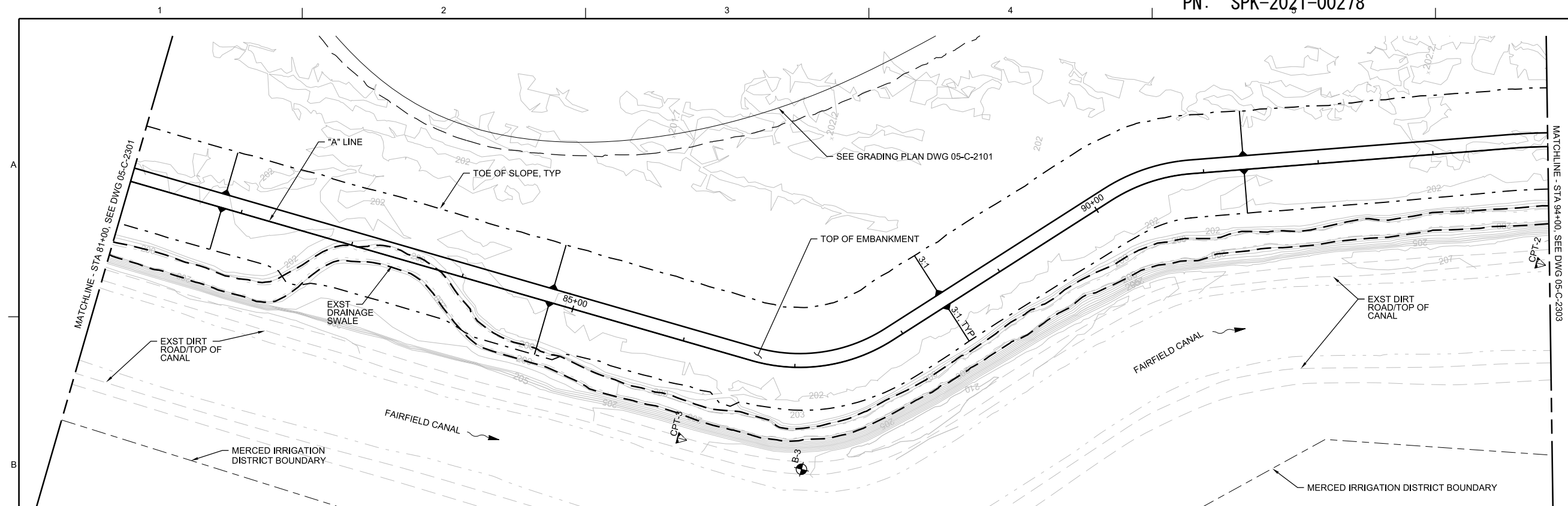
PLOT TIME: 12:30:14 PM











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FLOOD CONTROL PROJECT
MERCED COUNTY
MERCED, CA

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EMBANKMENT PLAN AND PROFILE
"A" LINE STA 81+00 TO STA 94+00

1"=50'

VERIFY SCALE

BAR IS ONE INCH ON
ORIGINAL DRAWING.

DATE SEPTEMBER 2021

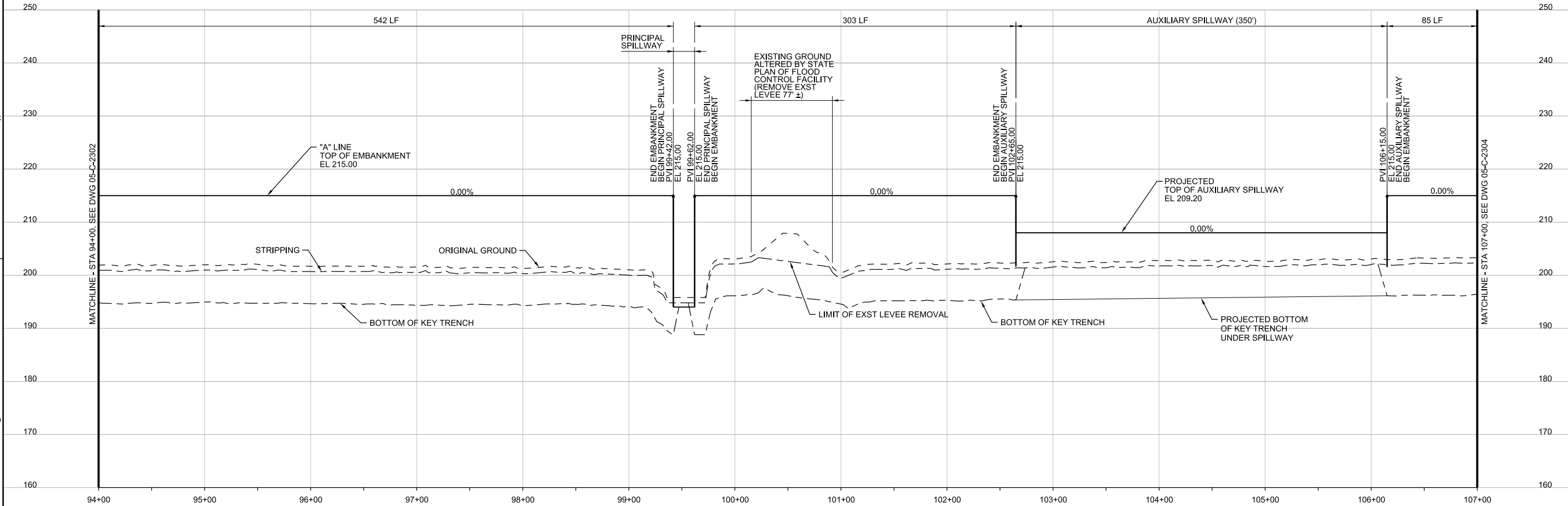
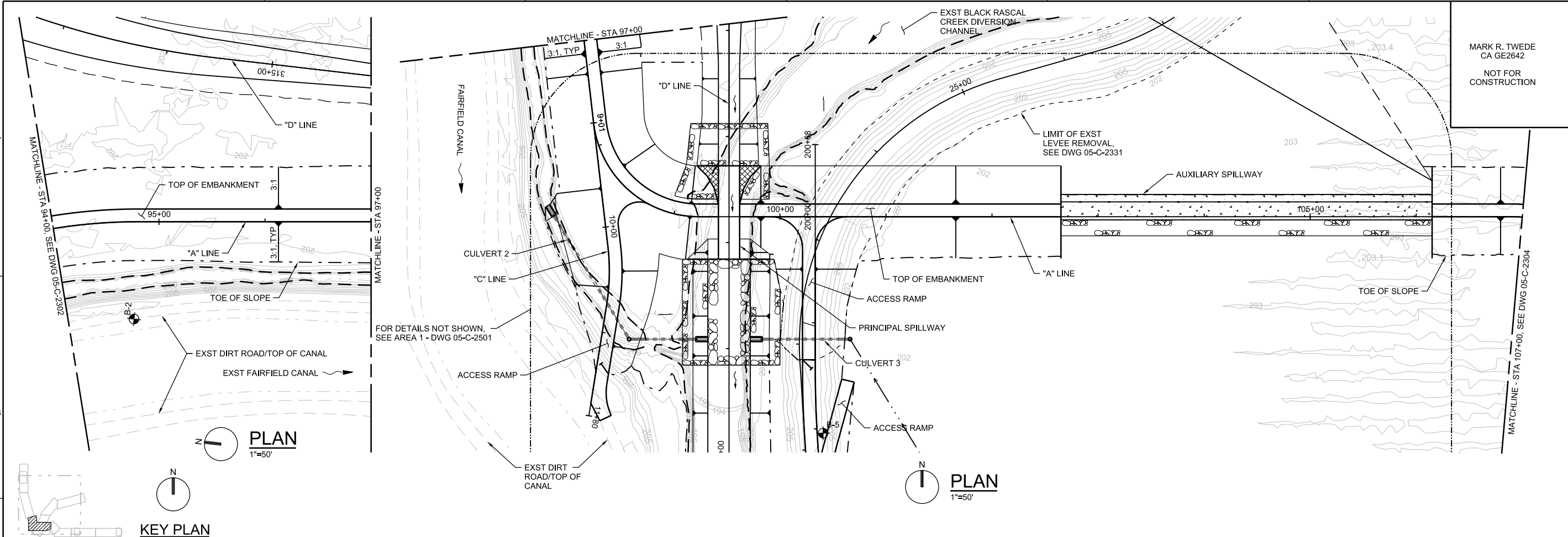
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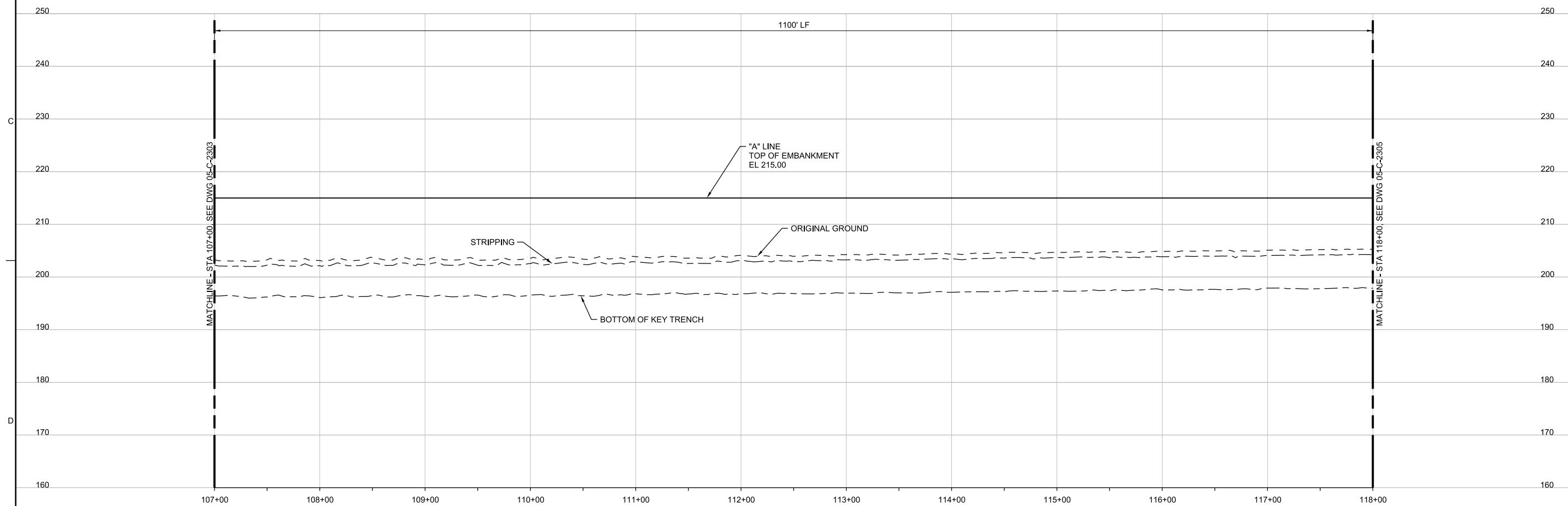
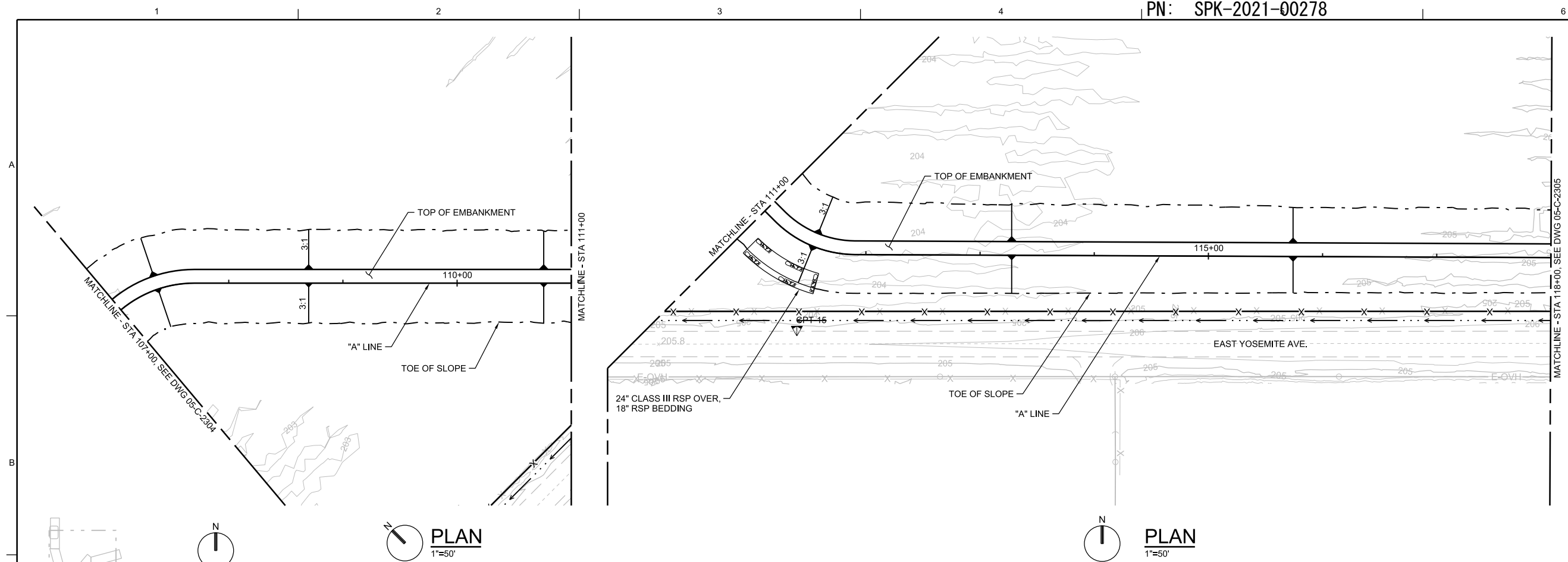
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SHEET	19 of 60

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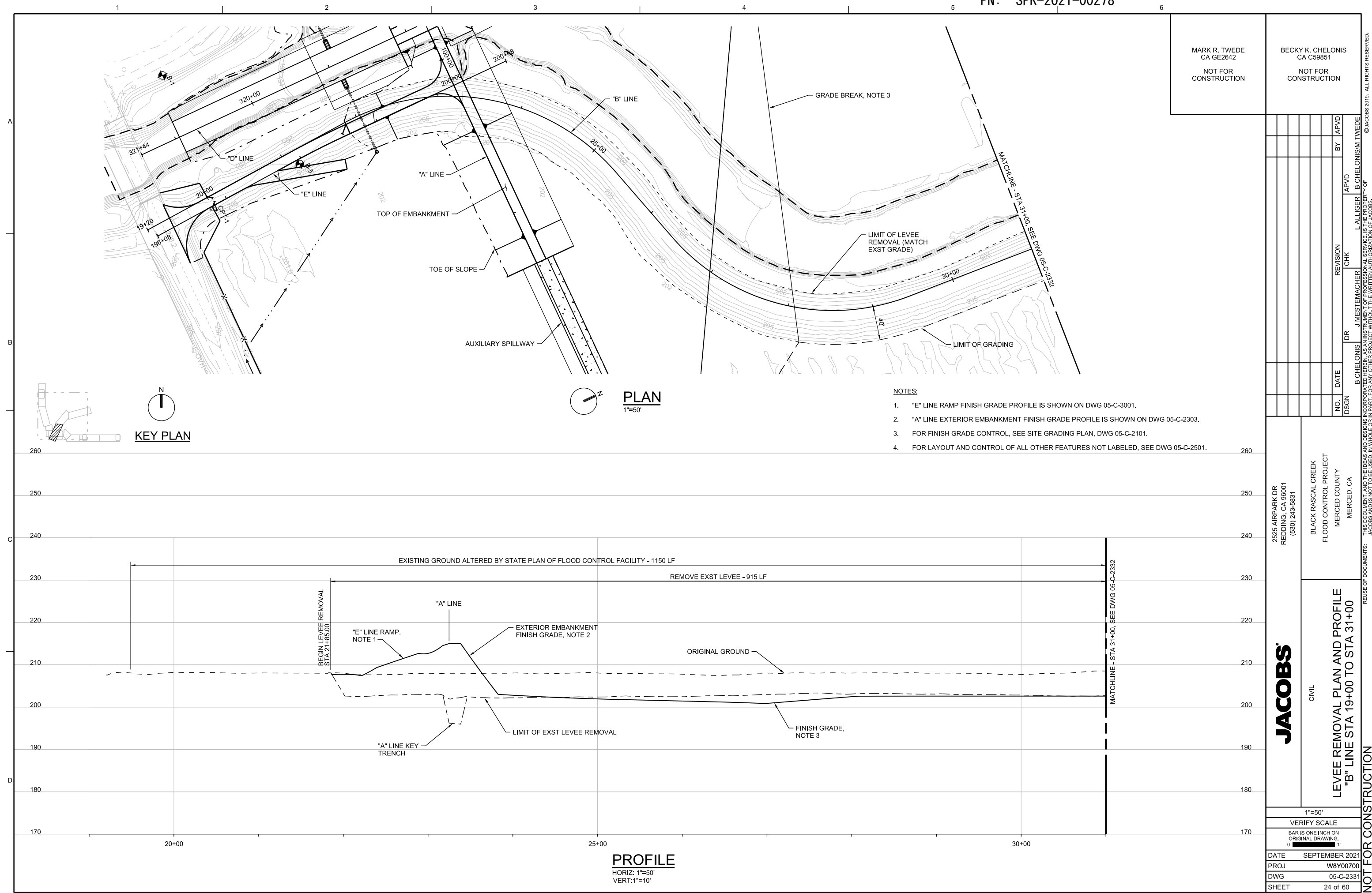
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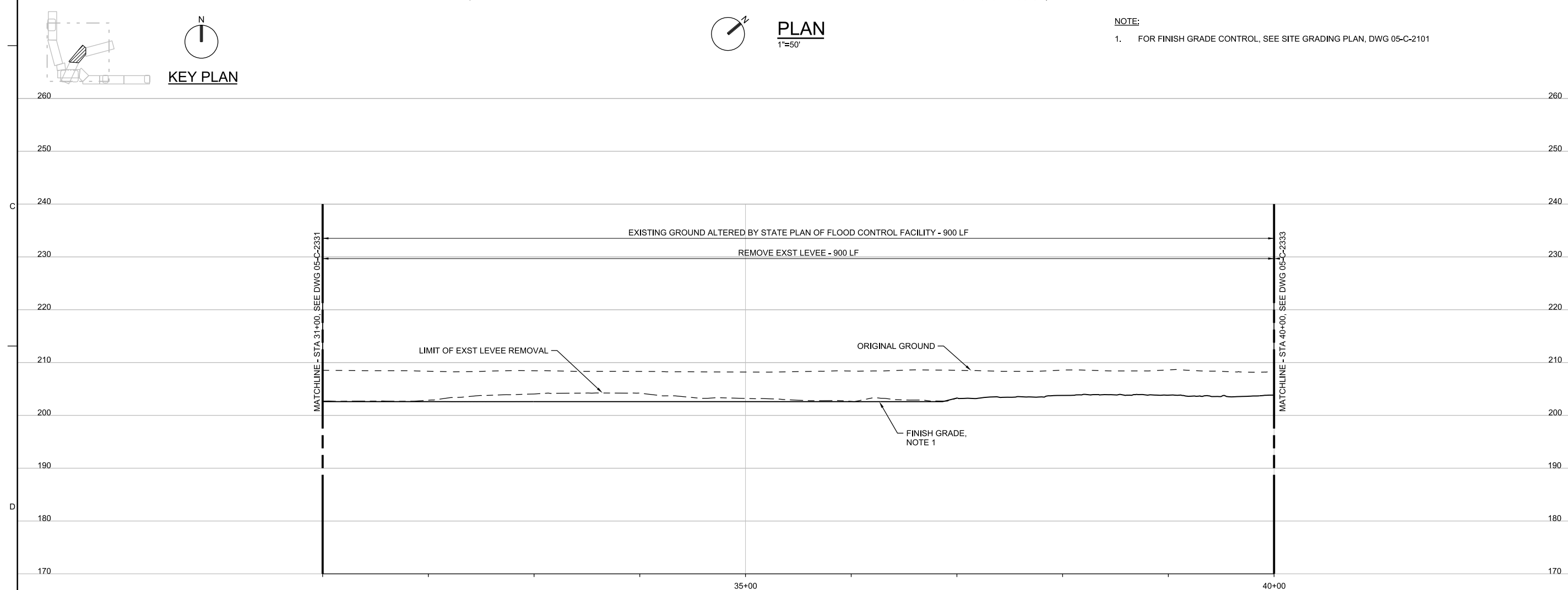
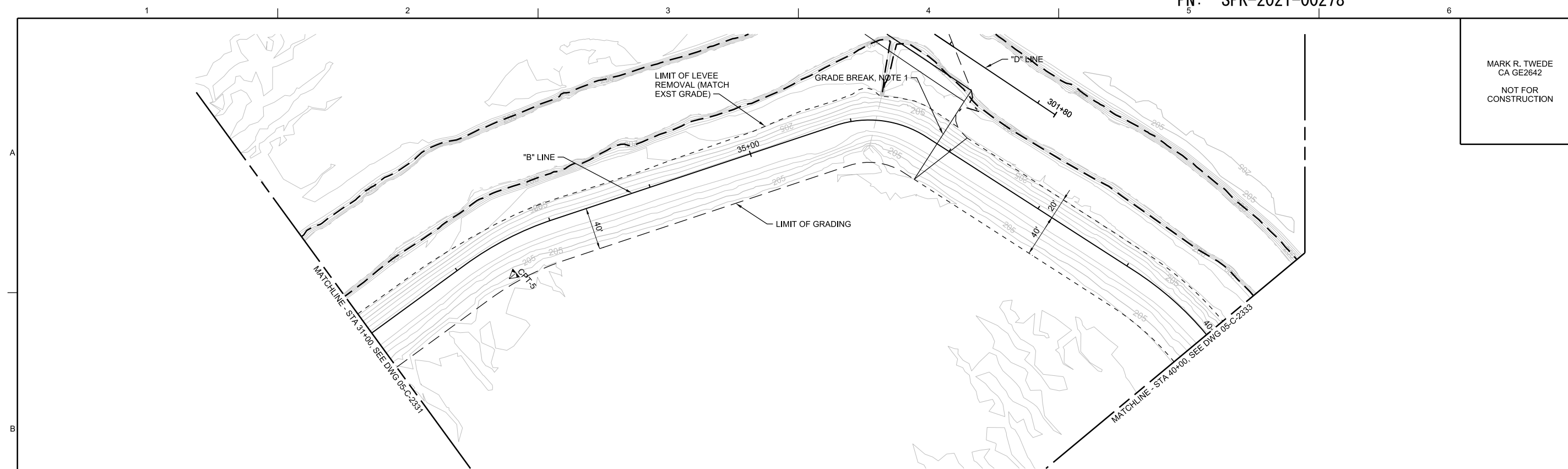


PROFILE

HORIZ: 1"=50'
VERT: 1"=10'

[illegible]





MARK R. TWEDE
CA GE2642

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CA C59851

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[illegible]

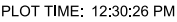
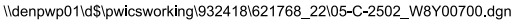
3525 AIRPARK DR
EDDING, CA 96001
(530) 243-5831

BLACK RASCAL CREEK
FLOOD CONTROL PROJECT
MERCED COUNTY

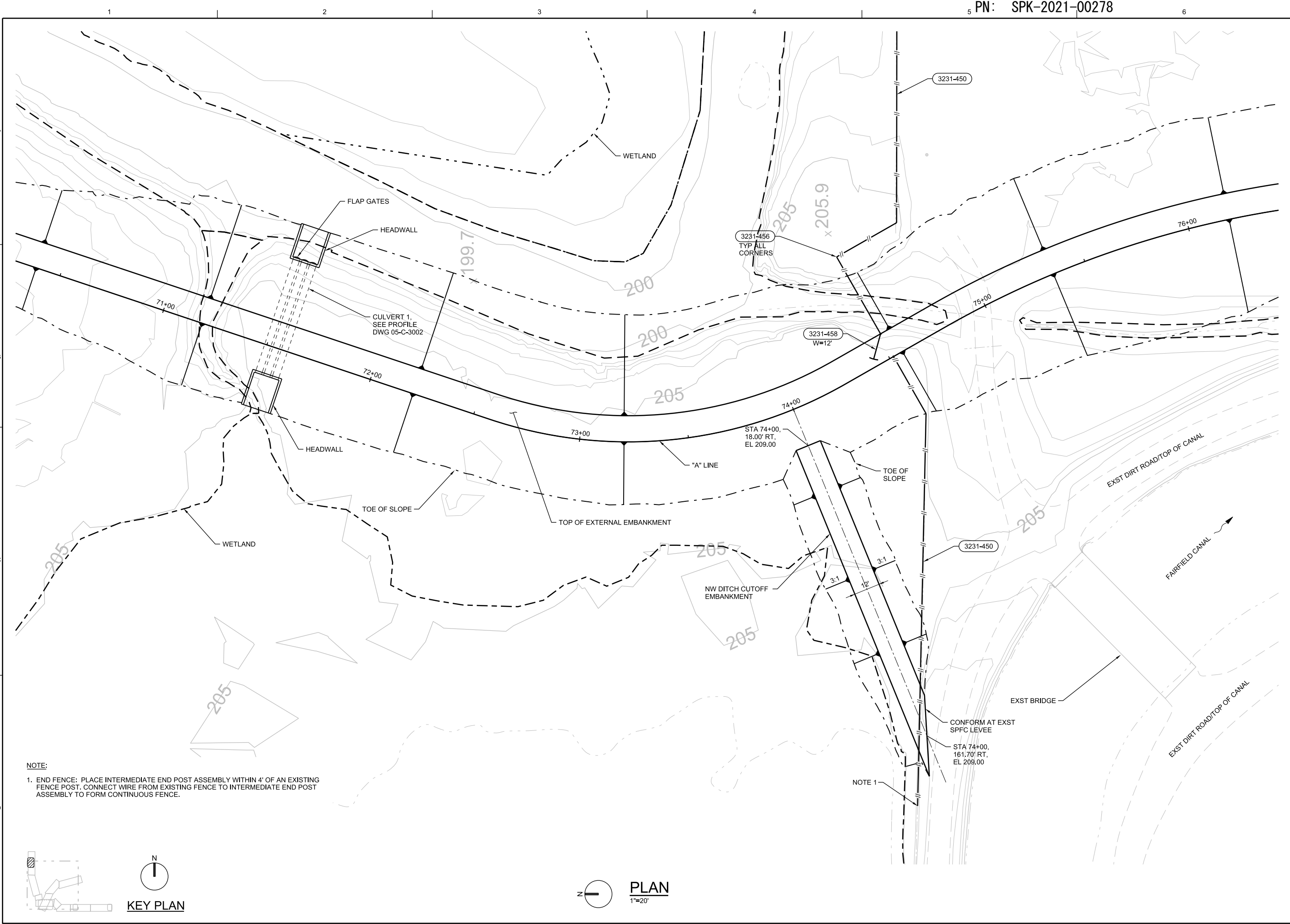
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1"=50'	
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DATE	SEPTEMBER 2, 2010
PROJ	W8Y000
DWG	05-C-2
SHEET	25 of 60

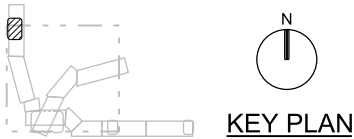
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NOTE:
1. END FENCE: PLACE INTERMEDIATE END POST ASSEMBLY WITHIN 4' OF AN EXISTING FENCE POST. CONNECT WIRE FROM EXISTING FENCE TO INTERMEDIATE END POST ASSEMBLY TO FORM CONTINUOUS FENCE.



PLAN
1"=20'

2525 AIRPARK DR
REDDING, CA 96001
(530) 243-5831

BLACK RASCAL CREEK
FLOOD CONTROL PROJECT
MERCED COUNTY
MERCED, CA

CIVIL

ENLARGED SITE PLAN
AREA 4

1"=30'

VERIFY SCALE

BAR IS ONE INCH ON
ORIGINAL DRAWING, 1"

DATE SEPTEMBER 2021

PROJ W8Y00700

DWG 05-C-2503

SHEET 29 of 60

BECKY K. CHELONIS
CA C59851
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NO. DATE

DR

CHK

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APVD

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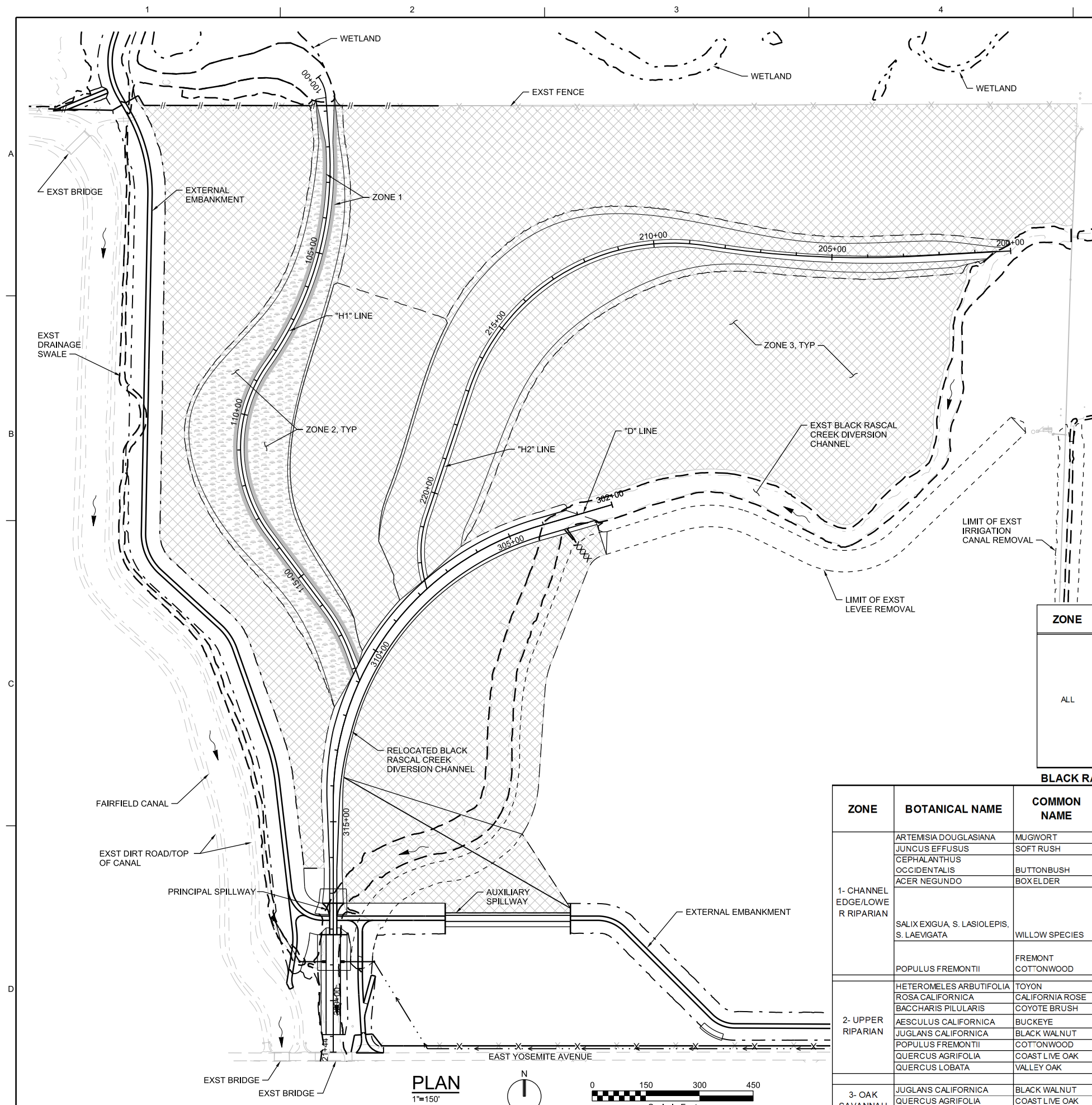
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PLOT TIME: 12:30:12 PM

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2525 AIRPARK DR REDDING, CA 96001 (530) 243-5831	BLACK RASCAL CREEK FLOOD CONTROL PROJECT MERCED COUNTY MERCED, CA
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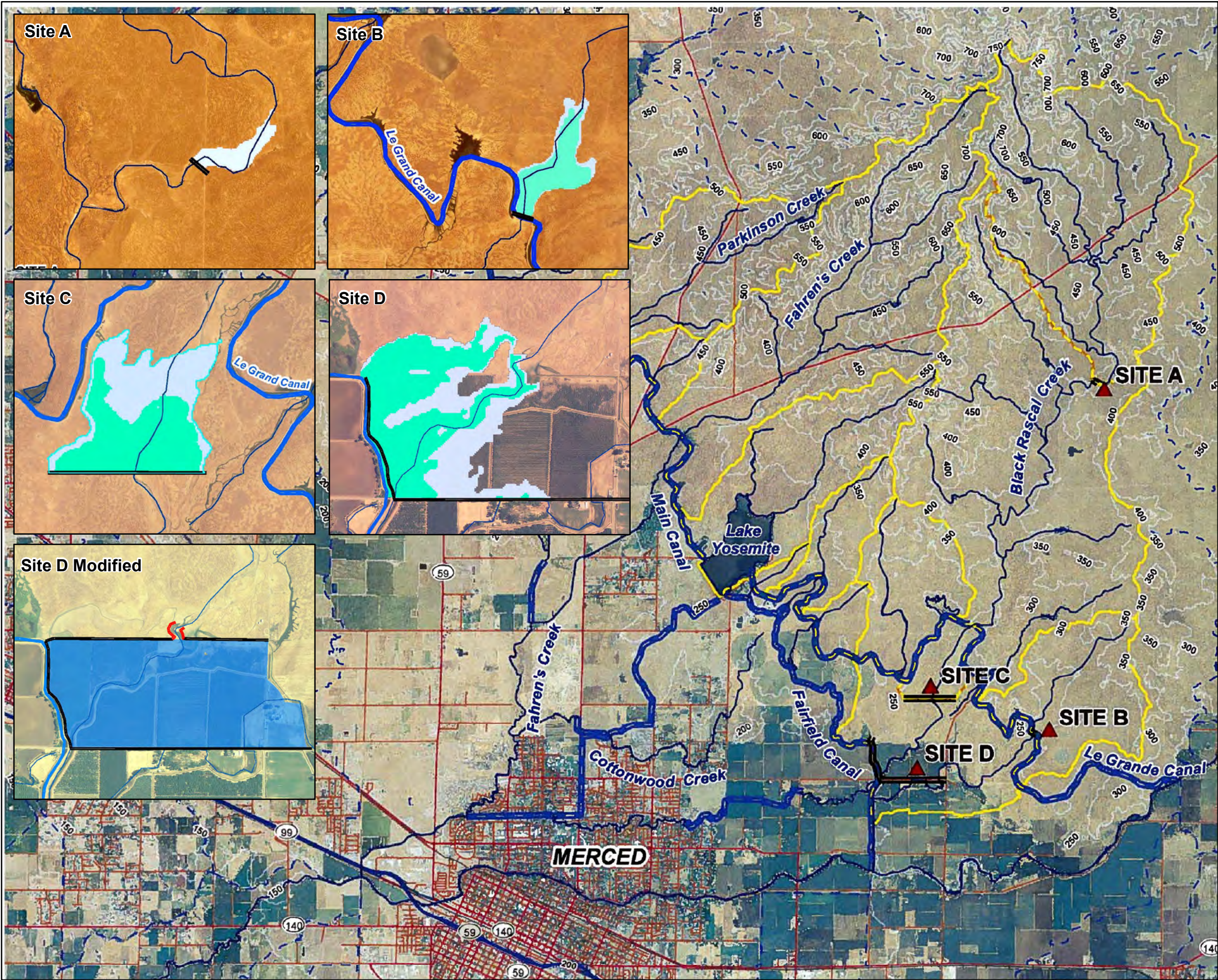
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	DATE	SEPTEMBER 2021	
PROJ	W8Y00700		
DWG	10-L-200		
SHEET	47 of 60		



LEGEND

ZONE	BOTANICAL NAME	COMMON NAME	PROPOGATION METHOD	SIZE	SPACING	GROWTH FORM
ALL	ACHILLEA MILLEFOLIUM	YARROW	PER CONTRACT SPECIFICATIONS	1	PER CONTRACT SPECIFICATIONS	FORB
	ARTEMISIA DOUGLASIANA	MUGWORT		2		FORB
	BROMUS CARINATUS	CALIFORNIA BROME		8		GRASS
	ELYMUS GLAUCUS	BLUE WILD RYE		8		GRASS
	ELYMUS TRITICOIDES	CREEPING WILD RYE		12		FORB
	ESCHSCHOLZIA CALIFORNICA	CALIFORNIA POPPY		3		FORB
	HORDEUM BRACHYANTHERUM	CALIFORNIA BARLEY		8		GRASS
	TRIFOLIUM WILLDENOVII	WILDCAT CLOVER		2		FORB
	STIPA PULCHRA	GRASS		8		GRASS
	VULPIA MICROSTACHYS	VULPIA		8		GRASS

ZONE	BOTANICAL NAME	COMMON NAME	PROPOGATION METHOD	SIZE	SPACING	GROWTH FORM	GROUP	PERCENT OF GROUP	QUANTITY
1- CHANNEL EDGE/LOWE R RIPARIAN	ARTEMISIA DOUGLASIANA	MUGWORT	CONTAINER	1 GAL	AVERAGE 10 FT O.C., CLUSTER PLANTINGS	HERB	A	35%	122
	JUNCUS EFFUSUS	SOFT RUSH	CONTAINER	1 GAL		HERB		35%	122
	CEPHALANTHUS OCCIDENTALIS	BUTTONBUSH	CONTAINER	1 GAL		SHRUB		15%	52
	ACER NEGUNDO	BOX ELDER	CONTAINER	1 GAL		TREE/SHRUB		15%	52
	SALIX EXIGUA, S. LASIOLEPIS, S. LAEVIGATA	WILLOW SPECIES	CUTTINGS	PER DRAWINGS	1 CUTTING PER 5 LINEAR FT OF CHANNEL, ALTERNATE BANKS.	TREE/SHRUB	C	100%	360
	POPULUS FREMONTII	FREMONT COTTONWOOD	CONTAINER	T4	AVERAGE 20 FT O.C.	TREE	D	100%	87
	2- UPPER RIPARIAN	HETEROMELES ARBUTIFOLIA	TOYON	CONTAINER	1 GAL	AVERAGE 20 FT O.C.	SHRUB	E	20%
ROSA CALIFORNICA		CALIFORNIA ROSE	CONTAINER	1 GAL	SHRUB		40%		244
BACCHARIS PILULARIS		COYOTE BRUSH	CONTAINER	1 GAL	TREE/SHRUB		40%		244
AESCULUS CALIFORNICA		BUCKEYE	CONTAINER	T4	AVERAGE 30 FT O.C.	TREE/SHRUB	F	5%	14
JUGLANS CALIFORNICA		BLACK WALNUT	CONTAINER	T4		TREE		20%	54
POPULUS FREMONTII		COTTONWOOD	CONTAINER	T4		TREE		30%	81
QUERCUS AGRIFOLIA		COAST LIVE OAK	CONTAINER	T4		TREE		20%	54
QUERCUS LOBATA		VALLEY OAK	CONTAINER	T4		TREE		25%	68
3- OAK SAVANNAH	JUGLANS CALIFORNICA	BLACK WALNUT	CONTAINER	T4	AVERAGE 80 FT O.C.	TREE	G	20%	95
	QUERCUS AGRIFOLIA	COAST LIVE OAK	CONTAINER	T4		TREE		40%	189
	QUERCUS LOBATA	VALLEY OAK	CONTAINER	T4		TREE		40%	189

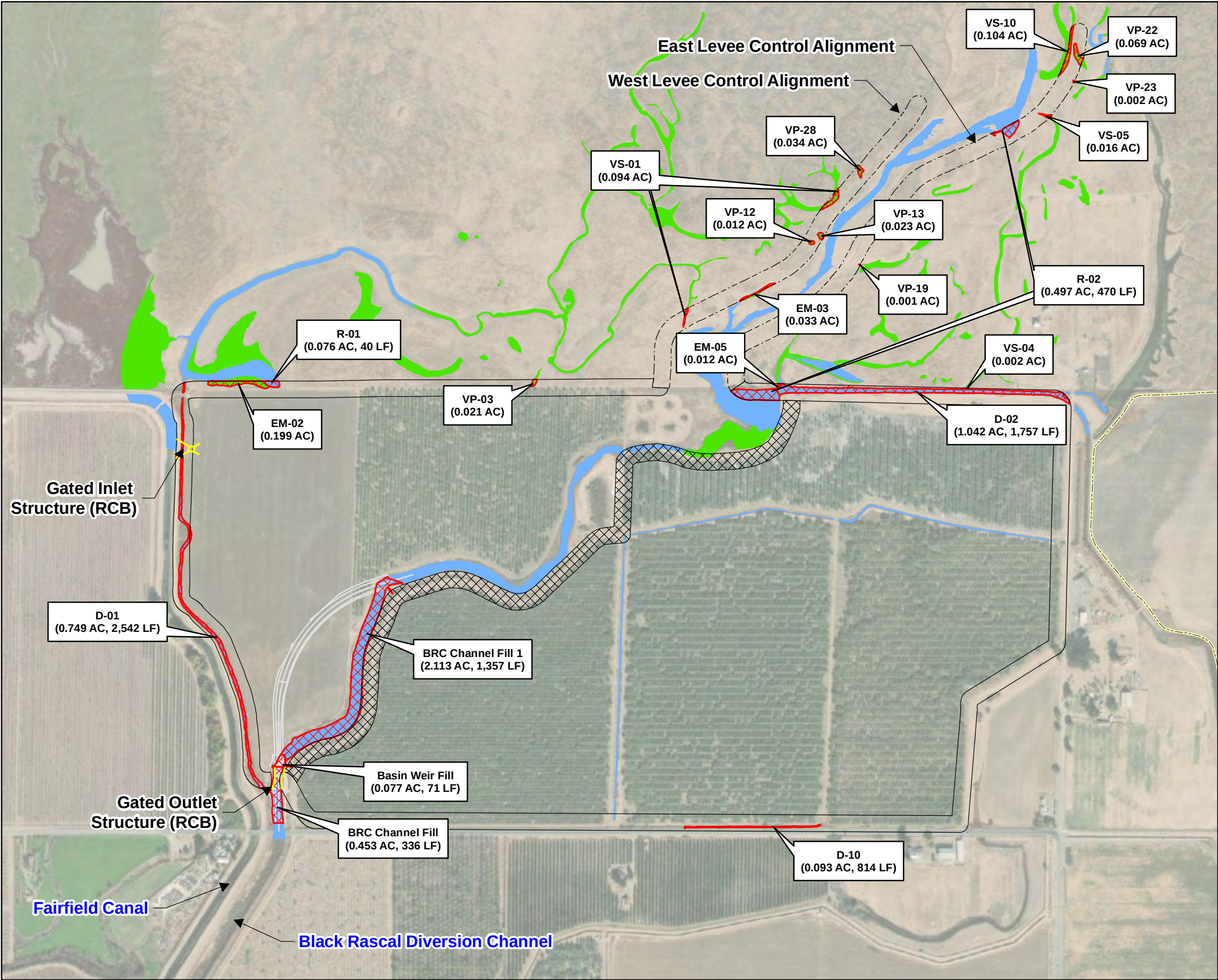


LEGEND
 Detention Basin Embankment

Note:
Layouts for offsite alternatives taken from Merced County 2009

Notes:
AC - Acres
LF - Linear Feet

FIGURE 4-1
2009 Feasibility Study – Alternative Locations
Clean Water Act Section 404(b)(1) Analysis
Black Rascal Creek Flood Control Project

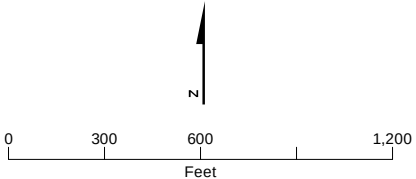


- LEGEND**
- External Levee Detail
 - Perimeter Levee
 - Training Levee
 - Interior Levee
 - Project Features
 - Interior Levee
 - Perimeter Levee
 - Soil Disposal Site
 - Training Levee
 - Permanent Impacts (5.731 AC, 7,387 LF)
 - Waters Impacts (5.116 AC, 7,519 LF)
 - Wetlands Impacts (0.627 AC)

Aquatic Resources

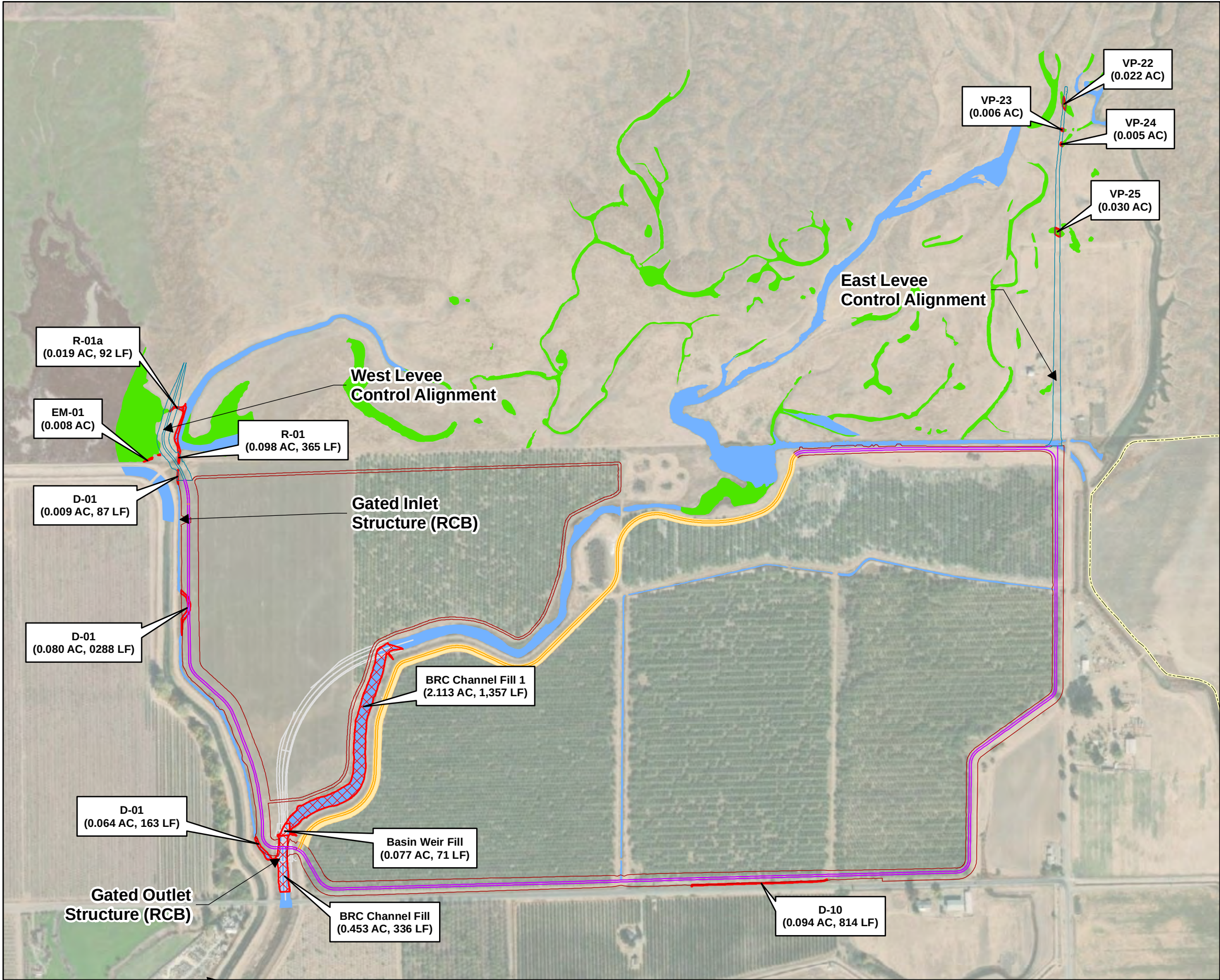
- Other Waters
- Wetlands

Channel realignment upstream of the outlet structure was not included in the EIR Proposed Project because project design had not progressed to the level of detail required to evaluate hydraulic requirements at this location. The realignment is included in this analysis because it would be required for all on site alternatives.



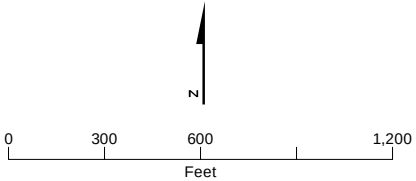
Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Sources: Esri, DeLorme, NAVTEQ, USGS, NRCAN, METI, iPC, TomTom

FIGURE 4-2
2017 EIR Proposed Project Onsite Alternatives
Clean Water Act Section 404(b)(1) Analysis
Black Rascal Creek Flood Control Project



- LEGEND**
- Interior Levee
 - Training Levee
 - Perimeter Levee
 - Project Features
 - Interior Levee
 - Perimeter Levee
 - Soil Disposal Site
 - Training Levee
 - Permanent Impacts (3.081 AC, 3,573 LF)
 - Waters Impacts (3.008 AC, 3,573 LF)
 - Wetlands Impacts (0.073 AC)
- Aquatic Resources**
- Other Waters
 - Wetlands

Channel realignment upstream of the outlet structure was not included in the EIR Proposed Project because project design had not progressed to the level of detail required to evaluate hydraulic requirements at this location. The realignment is included in this analysis because it would be required for all onsite alternatives.



661987_Levee_Site_ALT8B-R3.dgn
March 13, 2019

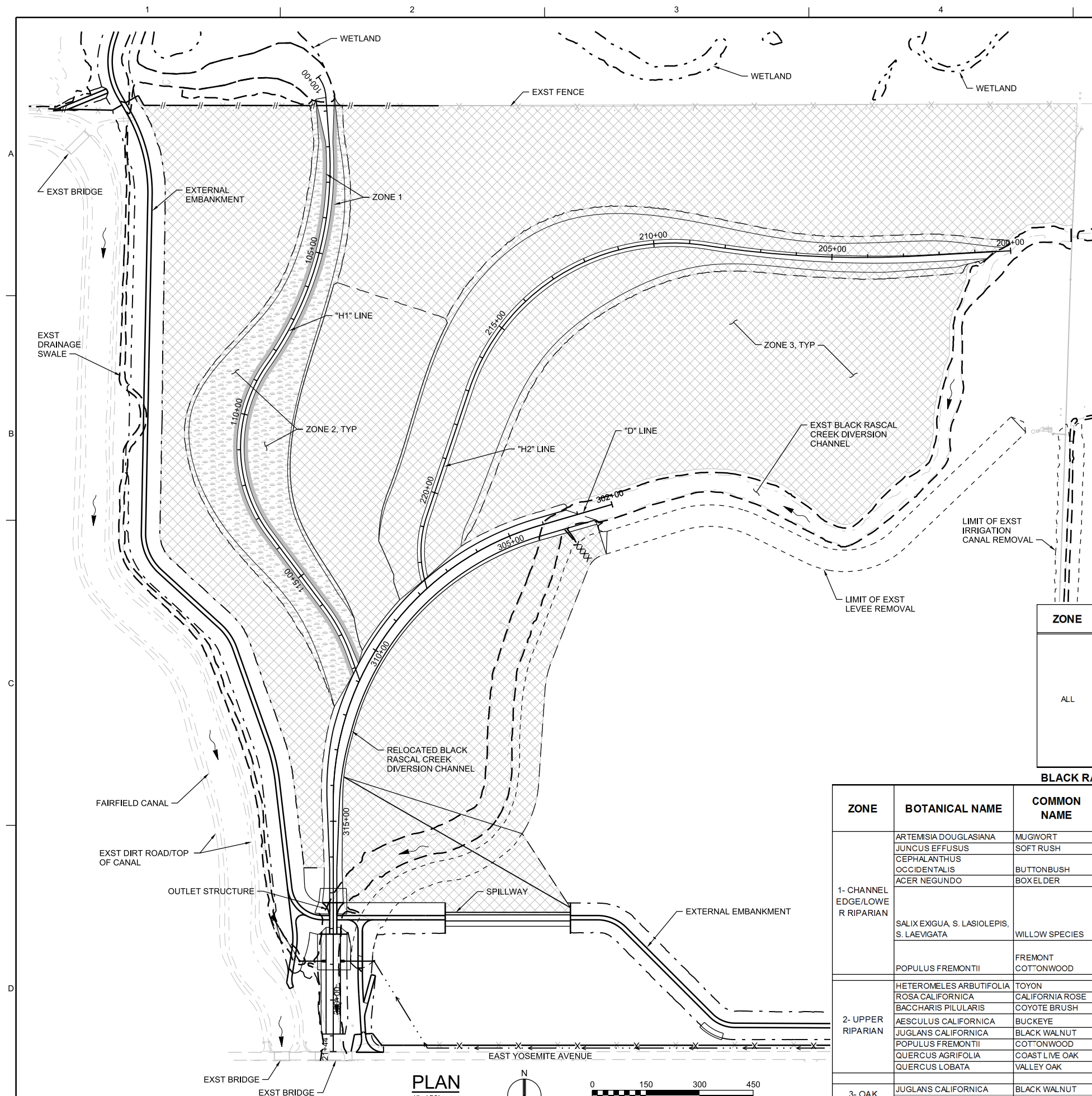
Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Sources: Esri, DeLorme, NAVTEQ, USGS, NRCAN, METI, iPC, TomTom

FIGURE 4-3
EIR Proposed Project with East/West Training Levee Option
Clean Water Act Section 404(b)(1) Analysis
Black Rascal Creek Flood Control Project

[illegible]

2525 AIRPARK DR REDDING, CA 96001 (530) 243-5831	BLACK RASCAL CREEK FLOOD CONTROL PROJECT MERCED COUNTY MERCED, CA
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		CIVIL	
		LANDSCAPE PLAN	
		1"=300'	
		VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0  1"	
DATE	NOVEMBER 2020		
PROJ	W8Y00700		
DWG	10-L-2001		
SHEET	14 of 58		



LEGEND

ZONE	BOTANICAL NAME	COMMON NAME	PROPOGATION METHOD	SIZE	SPACING	GROWTH FORM
ALL	ACHILLEA MILLEFOLIUM	YARROW	PER CONTRACT SPECIFICATIONS	1	PER CONTRACT SPECIFICATIONS	FORB
	ARTEMISIA DOUGLASIANA	MUGWORT		2		FORB
	BROMUS CARINATUS	CALIFORNIA BROME		8		GRASS
	ELYMUS GLAUCUS	BLUE WILDRYE		8		GRASS
	ELYMUS TRITICOIDES	CREeping WILD RYE		12		FORB
	ESCHSCHOLZIA CALIFORNICA	CALIFORNIA POPPY		3		FORB
	HORDEUM BRACHYANTHERUM	CALIFORNIA BARLEY		8		GRASS
	TRIFOLIUM WILLDENOVII	WILDCAT CLOVER		2		FORB
	STIPA PULCHRA	GRASS		8		GRASS
	VULPIA MICROSTACHYS	VULPIA		8		GRASS

BLACK RASCAL CREEK 60% REVEGETATION PLANTING PALATTE

ZONE	BOTANICAL NAME	COMMON NAME	PROPOGATION METHOD	SIZE	SPACING	GROWTH FORM	GROUP	PERCENT OF GROUP	QUANTITY
1- CHANNEL EDGE/LOWE R RIPARIAN	ARTEMISIA DOUGLASIANA	MUGWORT	CONTAINER	1 GAL	AVERAGE 10 FT O.C., CLUSTER PLANTINGS	HERB	A	35%	122
	JUNCUS EFFUSUS	SOFT RUSH	CONTAINER	1 GAL		HERB		35%	122
	CEPHALANTHUS OCCIDENTALIS	BUTTONBUSH	CONTAINER	1 GAL		SHRUB		15%	52
	ACER NEGUNDO	BOX ELDER	CONTAINER	1 GAL		TREE/SHRUB		15%	52
	SALIX EXIGUA, S. LASIOLEPIS, S. LAEVIGATA	WILLOW SPECIES	CUTTINGS	PER DRAWINGS	1 CUTTING PER 5 LINEAR FT OF CHANNEL, ALTERNATE BANKS.	TREE/SHRUB	C	100%	360
	POPULUS FREMONTII	FREMONT COTTONWOOD	CONTAINER	T4	AVERAGE 20 FT O.C.	TREE	D	100%	87
	2- UPPER RIPARIAN	HETEROMELES ARBUTIFOLIA	TOYON	CONTAINER	1 GAL	AVERAGE 20 FT O.C.	SHRUB	E	20%
ROSA CALIFORNICA		CALIFORNIA ROSE	CONTAINER	1 GAL	SHRUB		40%		244
BACCHARIS PILULARIS		COYOTE BRUSH	CONTAINER	1 GAL	TREE/SHRUB		40%		244
AESCULUS CALIFORNICA		BUCKEYE	CONTAINER	T4	AVERAGE 30 FT O.C.	TREE/SHRUB	F	5%	14
JUGLANS CALIFORNICA		BLACK WALNUT	CONTAINER	T4		TREE		20%	54
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QUERCUS AGRIFOLIA		COAST LIVE OAK	CONTAINER	T4		TREE		20%	54
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	QUERCUS LOBATA	VALLEY OAK	CONTAINER	T4		TREE		40%	189