

TECHNICAL MEMORANDUM

March 3, 2016

Project: Cities of Lathrop and Manteca
Urban Levee Design Criteria (ULDC) Evaluation

Subject: 7.11 – Right-of-Way

Prepared by: Erik E. Almaas, P.E.

Reviewed by: Christopher H. Neudeck, P.E.
David A. Peterson, P.E.

1.0 PURPOSE

Detailed analyses and documentation have been performed and developed of the existing levee system of Reclamation District No. 17 (RD17) in order to determine the extent of Urban Levee Design Criteria (ULDC) compliance. The purpose of this technical memorandum is to present the data sources, assumptions, analyses, and results as they pertain to ULDC Item No. 7.11 – Right-of-Way. The team responsible for undertaking this effort consists of Peterson, Brustad, Inc. (PBI), Kjeldsen, Sinnock and Neudeck, Inc. (KSN), and ENGE0, Inc.

2.0 PROJECT BACKGROUND

Legislation passed in 2007 substantially limits the ability of urban communities to approve residential, commercial and industrial development after July 2016 unless they have an Urban Level of Flood Protection (ULOP) or are making adequate progress toward achieving ULOP 200-year flood protection. Background on this mandate was summarized in "*Position Paper for City of Lathrop, Compliance with SB5: ULOP 200-Year Flood Protection for Lathrop (RD 17)*" dated February 3, 2014, by Glenn Gebhardt, City Engineer for the City of Lathrop.

In April 2014, PBI prepared a Strategic Plan for ULOP Compliance for RD17 communities, which outlined a strategic plan for complying with SB5 for the area protected by RD17 levees on a schedule that will meet the requirements of the law. The main component of this Strategic Plan was to perform a comprehensive ULDC analysis and identify areas of deficiencies for each of the ULDC criteria. The analyses presented in this technical memorandum pertain to one of these ULDC criteria: 7.11 – Right-of-Way.

3.0 LEVEE ASSESSMENT

The analyses described in this technical memorandum have been developed at a detailed level using an assessment of the existing levee system to determine the extent of ULDC deficiencies. The assessment was based on a combination of new and existing information.

3.1 Data Sources

Existing data sources that were utilized in the levee assessment are as follows:

- Levee Topographic Survey, performed by KSN and Aerial Photomapping Services in 2014
- Levee Easement Research, performed by KSN in 2015

3.2 Assumptions

Assumptions that were made in the levee assessment are as follows:

Separate Ongoing Projects:

Construction is currently underway on the RD17 Levee Seepage Repair Project (LSRP). The purpose of this project is to provide seepage remediation of various RD17 levee reaches along the San Joaquin River. Phase I and Phase II have both been completed at a combined cost of approximately \$9 million. Phase III is in the midst of the design and permitting stages and is estimated to cost \$35 million. The source of funding for LSRP is primarily from annual RD17 property owner assessments and DWR Early Implementation Program (EIP) grants. For purposes of this ULDC analysis, it was assumed that LSRP Phase III will be completed.

Basis of ULDC Analysis:

ULDC stipulates that right-of-way criteria meet the following objectives:

- Allow adequate room for maintenance, inspection, patrolling during high water, and flood-fighting.
- To the extent practical, adequate right-of-way should be available to provide additional room to expand facilities in the future.
- Prohibit excavations and land modifications that would endanger the integrity of the levee.

In order to determine the extents of existing right-of-way, levee easements along the entire levee alignment were researched and mapped utilizing aerial photography and topographic mapping to best fit. Any additional monument ties or boundary resolution, other than what has already been gathered and/or accomplished, were generally not performed.

3.3 Analysis

Right-of-Way for Access and Inspection

To verify the first objective, existing easements were compared with the 20-foot-wide clear zone per ULDC requirements. Alternatives for acceptable landside zones were considered for those portions of the levee system that currently have development within 20 feet of the landside toe of the levee. Existing levee easements were ascertained as shown in **EXHIBIT 1** and compared with the levee toe, a 10-foot setback in developed areas, and a 20-foot setback in undeveloped areas. The need for additional easements to maintain acceptable clear zones was then identified and quantified.

Right-of-Way for Long-Term Flood Protection

In order to meet the second objective, ULDC recommends that the city, county, or levee maintaining agency should consider acquiring right-of-way for a future needs area. In the case of the RD17 levees, RD17 currently has a policy of requiring a minimum 50-foot setback from the levee toe for future development in addition to requiring single-loaded streets in cooperation

with the Cities of Lathrop and Manteca. This policy is enforced during the tentative map process.

Land-Use Restrictions to Prohibit Loss of Levee Integrity

In order to meet the third objective, ULDC recommends that the city or county should adopt restrictions on excavations that would endanger the integrity of the levee. In the case of the RD17 levees, there are currently permitting policies already in place by RD17 and the Central Valley Flood Protection Board (CVFPB) that prohibit such excavations or land modifications that would have an adverse impact on the integrity and/or operation of the levee system.

4.0 DEFICIENCY RESULTS

A summary of existing right-of-way deficiencies is shown below in Table 1.

Table 1 - Existing Right-of-Way Deficiencies

Region	Landside Zone Width	No. of Parcels	Required Acreage
Weston Ranch (City of Stockton)	10'	68	1.4
City of Lathrop	10'	2	0.5
Oak Shores Development	10'	6	2.1
Undeveloped	20'	38	40.7

It is recommended that rights for the landside clear zone as indicated above and in **EXHIBIT 1** be acquired in the form of fee title. Some of the existing right-of-way deficiencies may be overstated, especially within the Weston Ranch development, and a more detailed right-of-way analysis will be required on a case-by-case basis. Resolution to the identified deficiencies has been addressed as indicated in the proposed ULDC improvement plans and cost estimate.

5.0 RIGHT-OF-WAY REMEDIATION PLAN

For levees adjacent to existing development, the city or county is required to have a right-of-way plan in place to acquire an easement or fee title for the 10-foot-wide landside clear zone. It is recommended that a target schedule of 20 years be established to obtain easements for 50 percent of the currently noncompliant parcels. This 20-year period is for which the initial Finding is in effect. It is further recommended to obtain the remaining easements within 20 years after the second Finding.

For levees adjacent to undeveloped land, currently largely agricultural or open space, the city or county is required to have a right-of-way plan in place to acquire an easement or fee title for the full 20-foot-wide landside clear zone. It is recommended that a target schedule of 20 years be established to obtain easements for 100 percent of the currently noncompliant parcels. This 20-year period is for which the initial Finding is in effect. RD17 currently has policies in place to prevent new development within the 20-foot-wide landside clear zone. It is recommended that the Cities of Lathrop and Manteca establish general plan policies, building standards, or an ordinance that prevents, to the extent allowable by law, development within the 20-foot-wide landside clear zone until new easements are acquired.

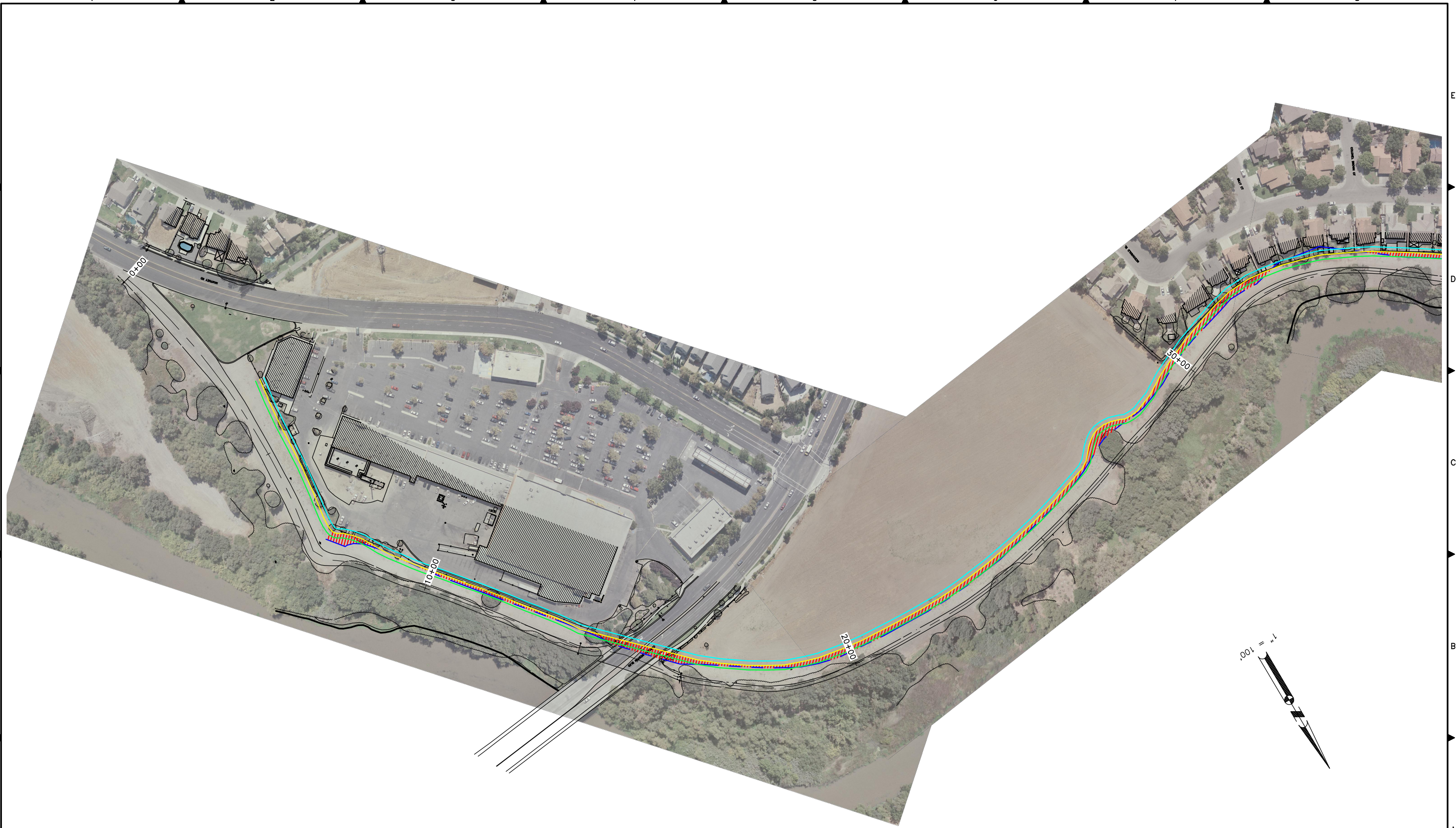
Lastly, it is recommended that the Cities of Lathrop and Manteca consider developing even more aggressive setback criteria that keep permanent structures away from the levees. The criteria might also limit excavations and other actions that could have adverse effects on the

performance of the levee system or restrict future modifications to the levee system. This criteria would supplement and reinforce existing permitting policies by RD17 and CVFPB that currently restrict levee modifications.

Cities of Lathrop and Manteca
ULDC Evaluation
7.11 Right-of-Way




EXHIBIT 1
Existing Levee Easements

FILE SPEC: C:\Users\eamlaas\appdata\local\temp\AcPublish_5072\ShL_7-11_Right-of-Way.dwg
 PLOT DATE: Dec 07, 2015 - 1:27pm



PRELIMINARY
 NOT FOR CONSTRUCTION
 - FOR STUDY ONLY -

LEGEND:

	LEVEE TOE		APPROXIMATE EASEMENT
	10' OFFSET FROM LEVEE TOE		EASEMENT DEFICIENCY
	20' OFFSET FROM LEVEE TOE		

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N NEUDECK
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 ULDC EVALUATION
 SAN JOAQUIN COUNTY, CALIFORNIA**

**7.11 RIGHT-OF-WAY
 PLAN VIEW
 STA. 0+00 TO 30+00**

Revisions				
No.	Description	Date	By	Apprd. By

Design EEA	Scale 1" = 100' Original Drawing Scale 0 1/2" 1"
Drawn EEA	
Check CHN	

Date
AUGUST 2015

Sheet Number
1 Of 33






Project File No.
2255-0030

FILE SPEC: C:\Users\vealmaaas\appdata\local\temp\AcPublish_5072\ShL_7-11_Right-of-Way.dwg
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LEGEND:


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	10' OFFSET FROM LEVEE TOE		EASEMENT DEFICIENCY
	20' OFFSET FROM LEVEE TOE		

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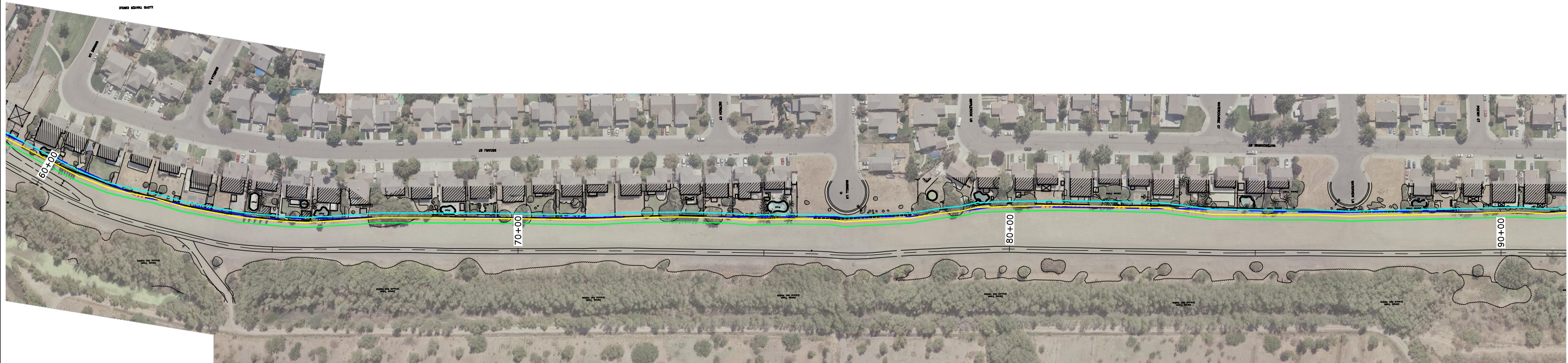
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**7.11 RIGHT-OF-WAY
 PLAN VIEW
 STA. 30+00 TO 60+00**

Revisions				
No.	Description	Date	By	Apprd. By






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PRELIMINARY
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	20' OFFSET FROM LEVEE TOE		

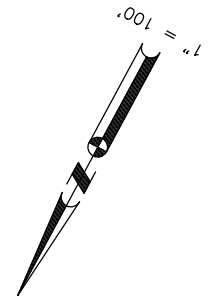
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**7.11 RIGHT-OF-WAY
 PLAN VIEW
 STA. 60+00 TO 90+00**

Revisions				
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LEGEND:

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	10' OFFSET FROM LEVEE TOE		EASEMENT DEFICIENCY
	20' OFFSET FROM LEVEE TOE		

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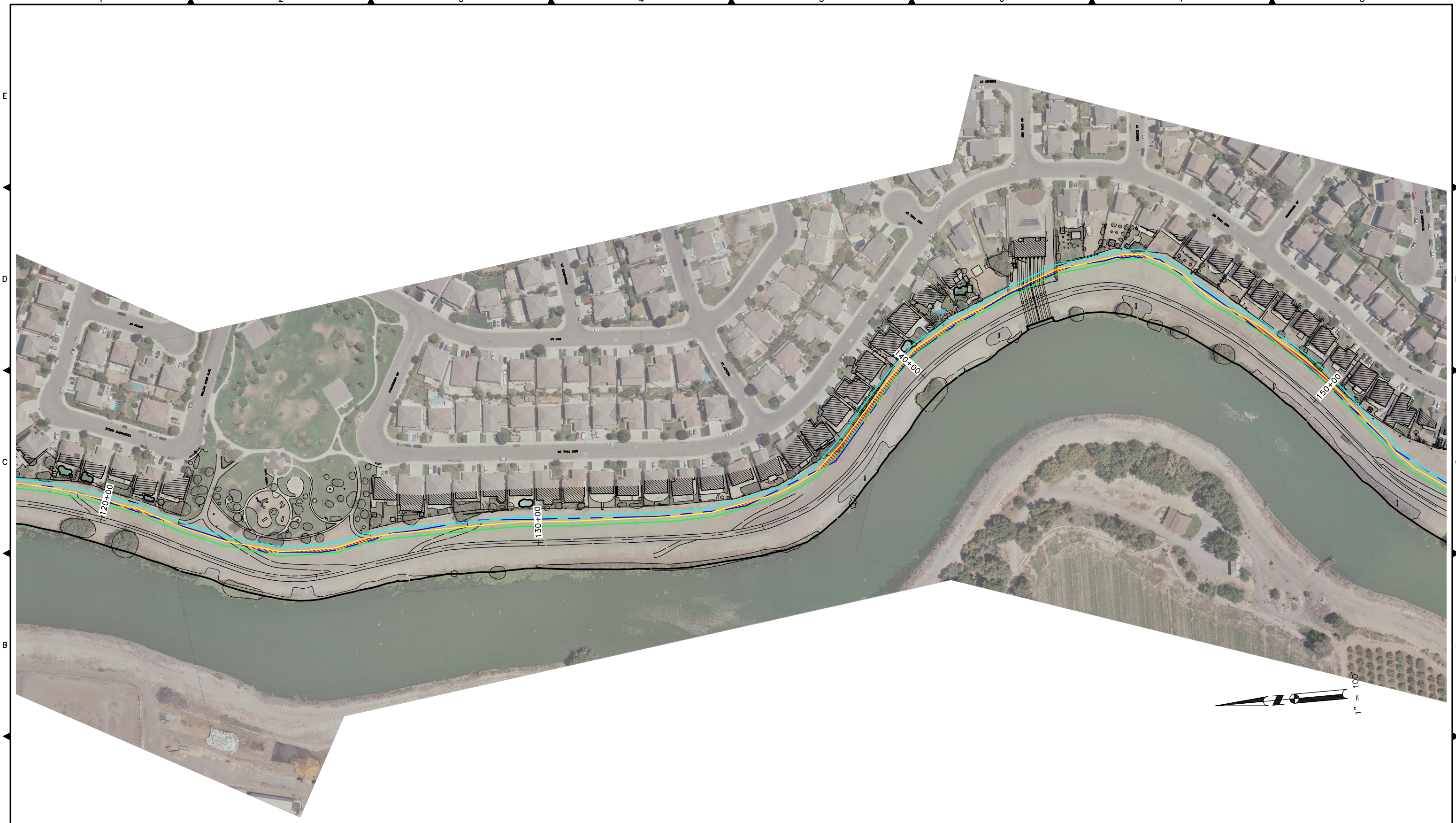
**7.11 RIGHT-OF-WAY
 PLAN VIEW
 STA. 90+00 TO 120+00**

Revisions				
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Date AUGUST 2015
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	20' OFFSET FROM LEVEE TOE		

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**7.11 RIGHT-OF-WAY
 PLAN VIEW
 STA. 120+00 TO 150+00**

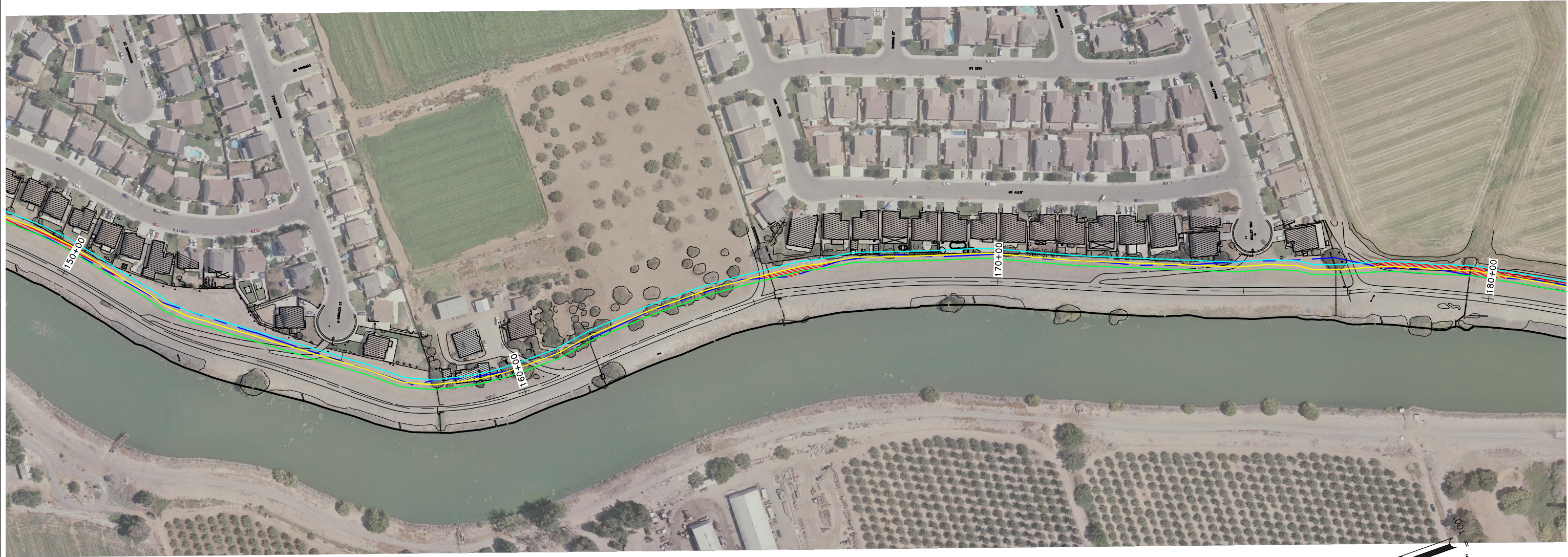
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1" = 100'

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	20' OFFSET FROM LEVEE TOE		

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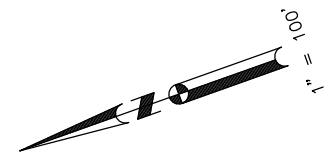
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**7.11 RIGHT-OF-WAY
 PLAN VIEW
 STA. 150+00 TO 180+00**

Revisions				
No.	Description	Date	By	Apprd. By





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LEGEND:

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	20' OFFSET FROM LEVEE TOE		

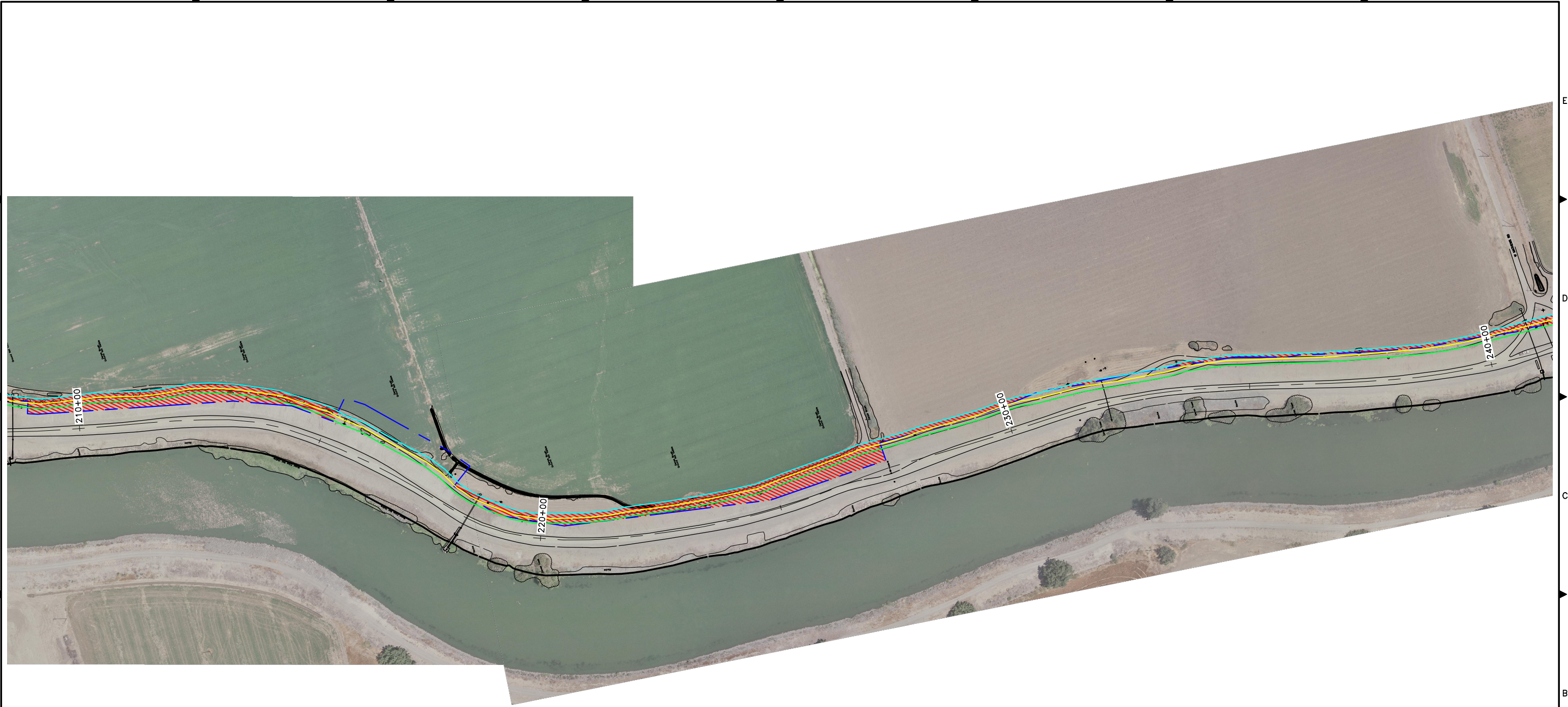
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**7.11 RIGHT-OF-WAY
 PLAN VIEW
 STA. 180+00 TO 210+00**

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No.	Description	Date	By	Apprd. By		

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Check	CHN		Original Drawing Scale	7 Of 33
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PRELIMINARY
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LEGEND:

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	20' OFFSET FROM LEVEE TOE		

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**7.11 RIGHT-OF-WAY
 PLAN VIEW
 STA. 210+00 TO 240+00**

Revisions				
No.	Description	Date	By	Apprd. By

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Date AUGUST 2015
Sheet Number 8 Of 33
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LEGEND:

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	20' OFFSET FROM LEVEE TOE		

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**7.11 RIGHT-OF-WAY
 PLAN VIEW
 STA. 240+00 TO 270+00**

Revisions			
No.	Description	Date	By






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Check CHN		Project File No. 2255-0030

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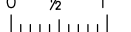
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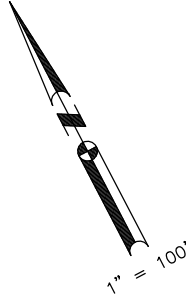
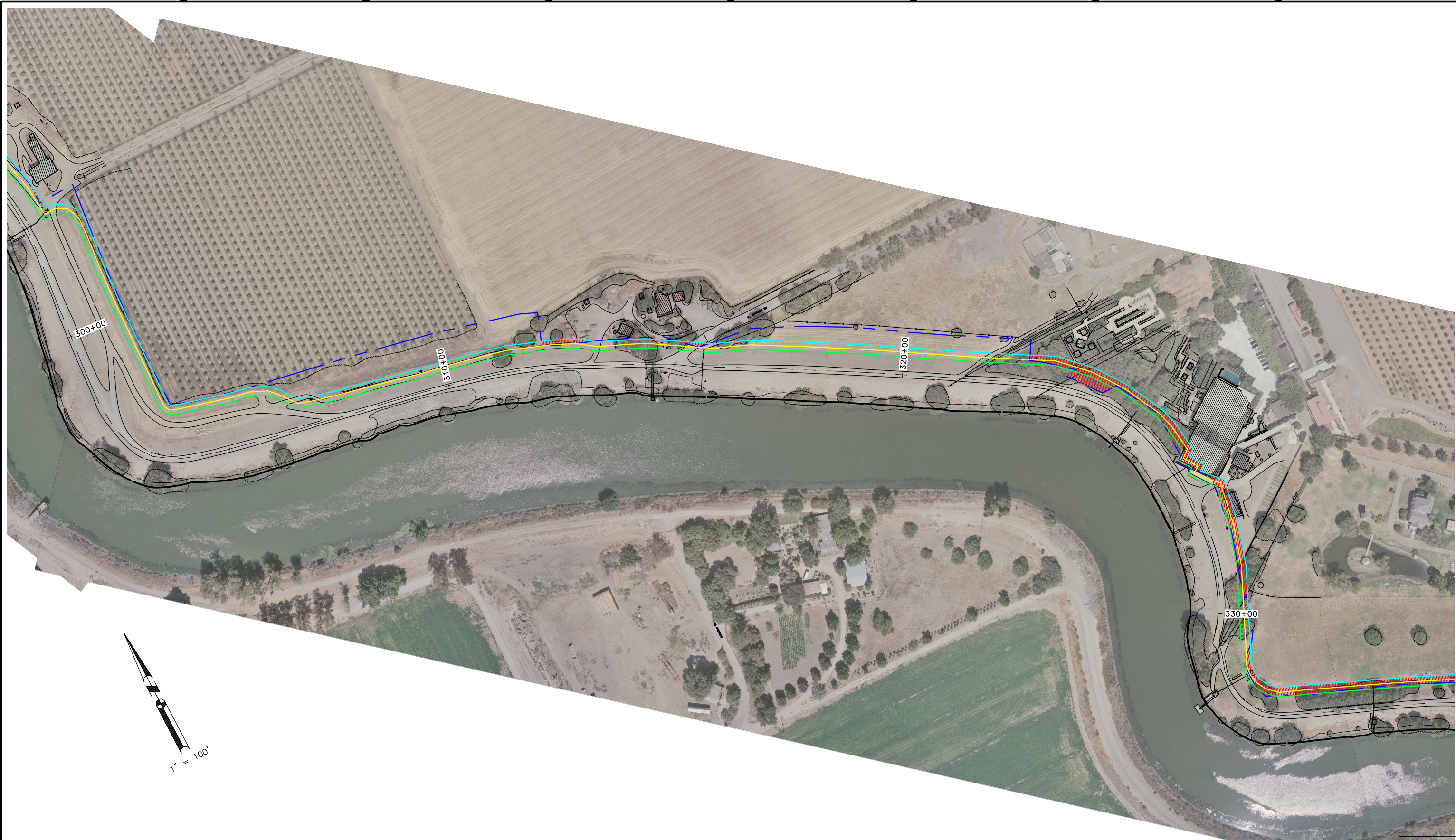
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**7.11 RIGHT-OF-WAY
 PLAN VIEW
 STA. 270+00 TO 300+00**

Revisions				
No.	Description	Date	By	Apprd. By






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	20' OFFSET FROM LEVEE TOE		

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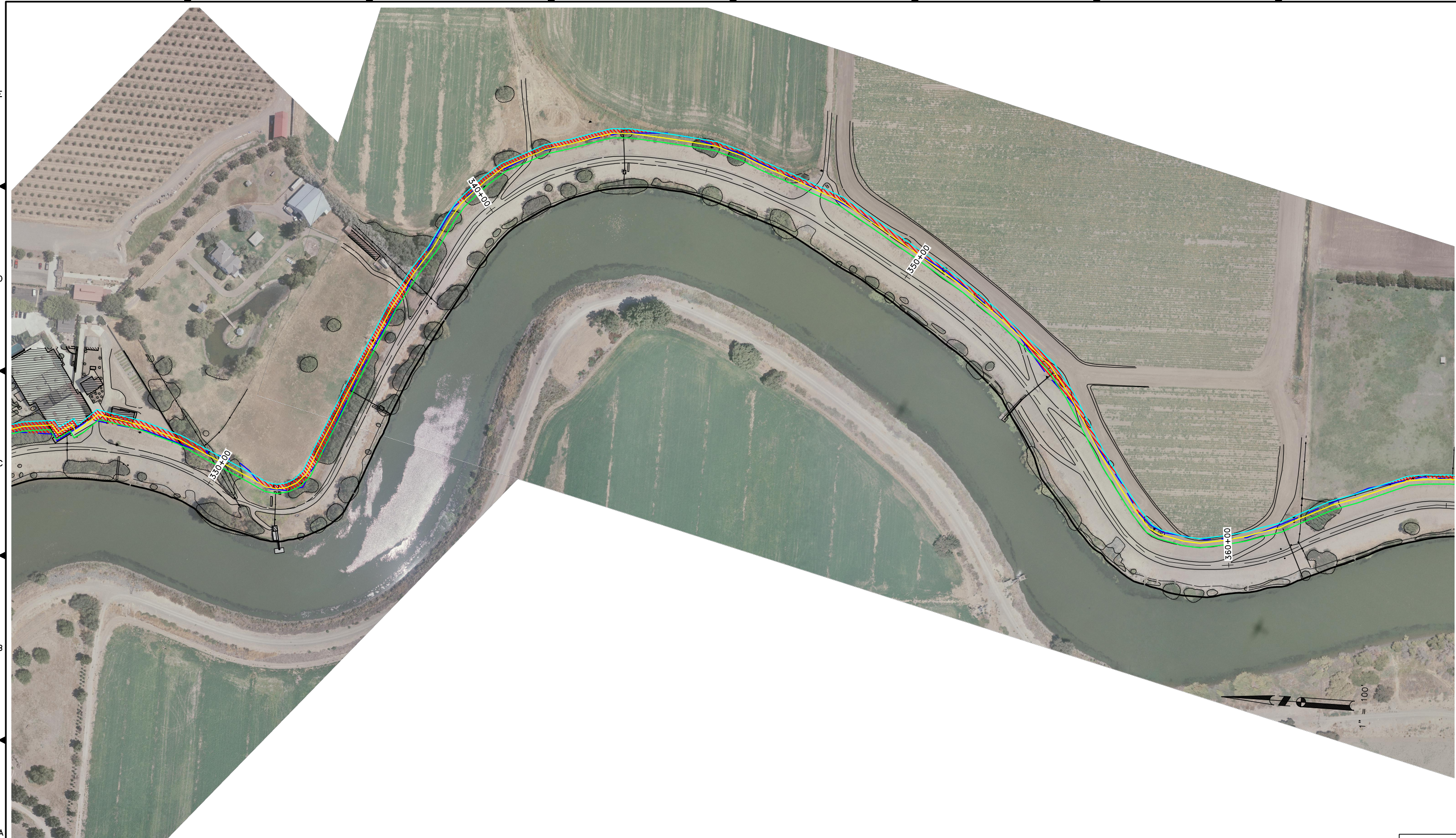
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 SAN JOAQUIN COUNTY, CALIFORNIA**
**7.11 RIGHT-OF-WAY
 PLAN VIEW
 STA. 300+00 TO 330+00**

Revisions			
No.	Description	Date	By

Design EEA	Scale 1" = 100' Original Drawing Scale 0 1/2" 1" 
Drawn EEA	
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Date
AUGUST 2015
 Sheet Number
11 Of 33
 Project File No.
2255-0030

FILE SPEC: C:\Users\vealmaaas\appdata\local\temp\AcPublish_5072\ShL_7-11_Right-of-Way.dwg
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LEGEND:

	LEVEE TOE		APPROXIMATE EASEMENT
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	20' OFFSET FROM LEVEE TOE		

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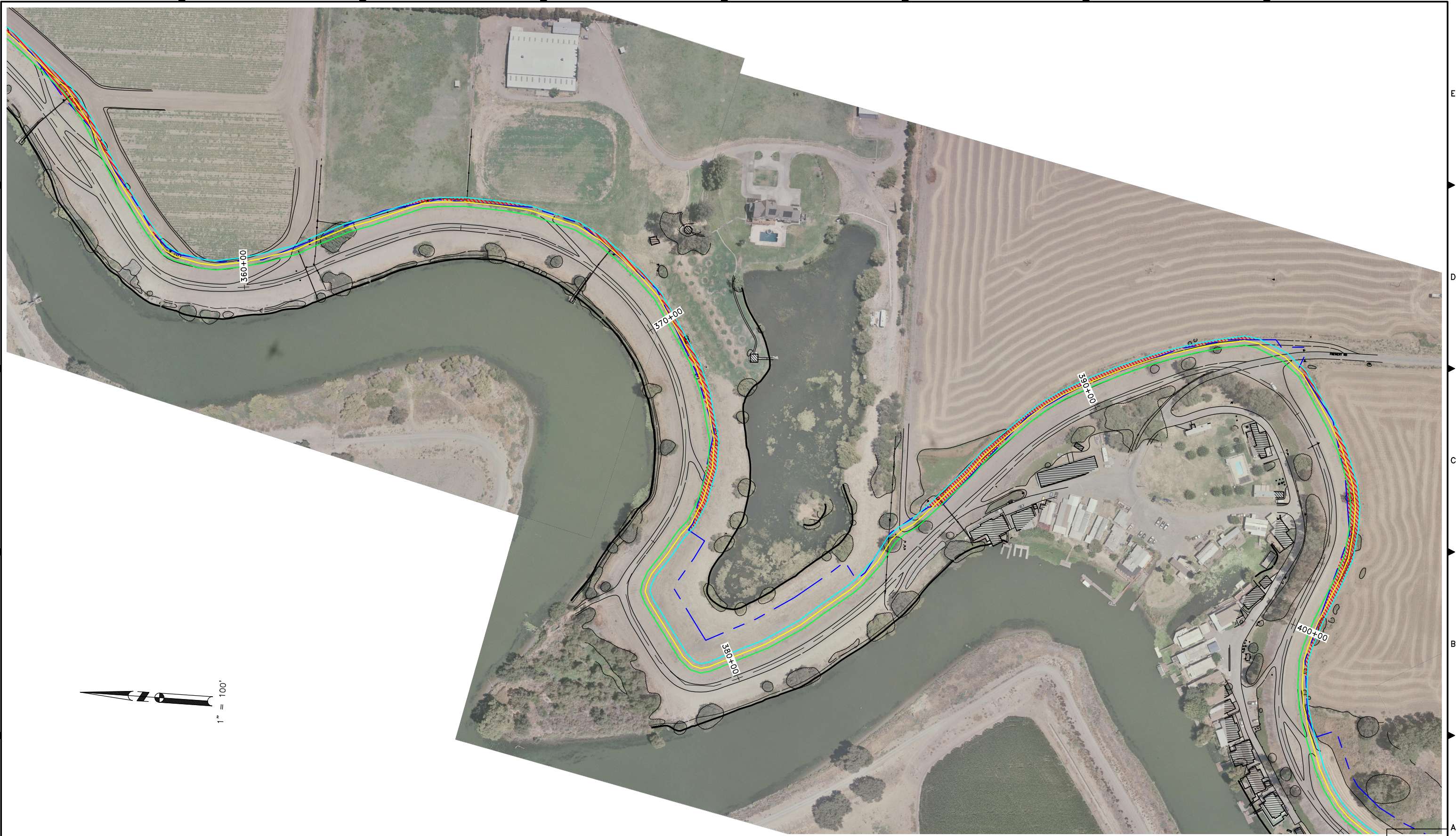
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**7.11 RIGHT-OF-WAY
 PLAN VIEW
 STA. 330+00 TO 360+00**

Revisions				
No.	Description	Date	By	Apprd. By

Design EEA	Scale 1" = 100' Original Drawing Scale 0 1/2" 1" 
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Date
AUGUST 2015
 Sheet Number
12 Of 33
 Project File No.
2255-0030

FILE SPEC: C:\Users\vealmaaas\appdata\local\temp\AcPublish_5072\ShL_7-11_Right-of-Way.dwg
 PLOT DATE: Dec 07, 2015 - 1:38pm




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	20' OFFSET FROM LEVEE TOE		

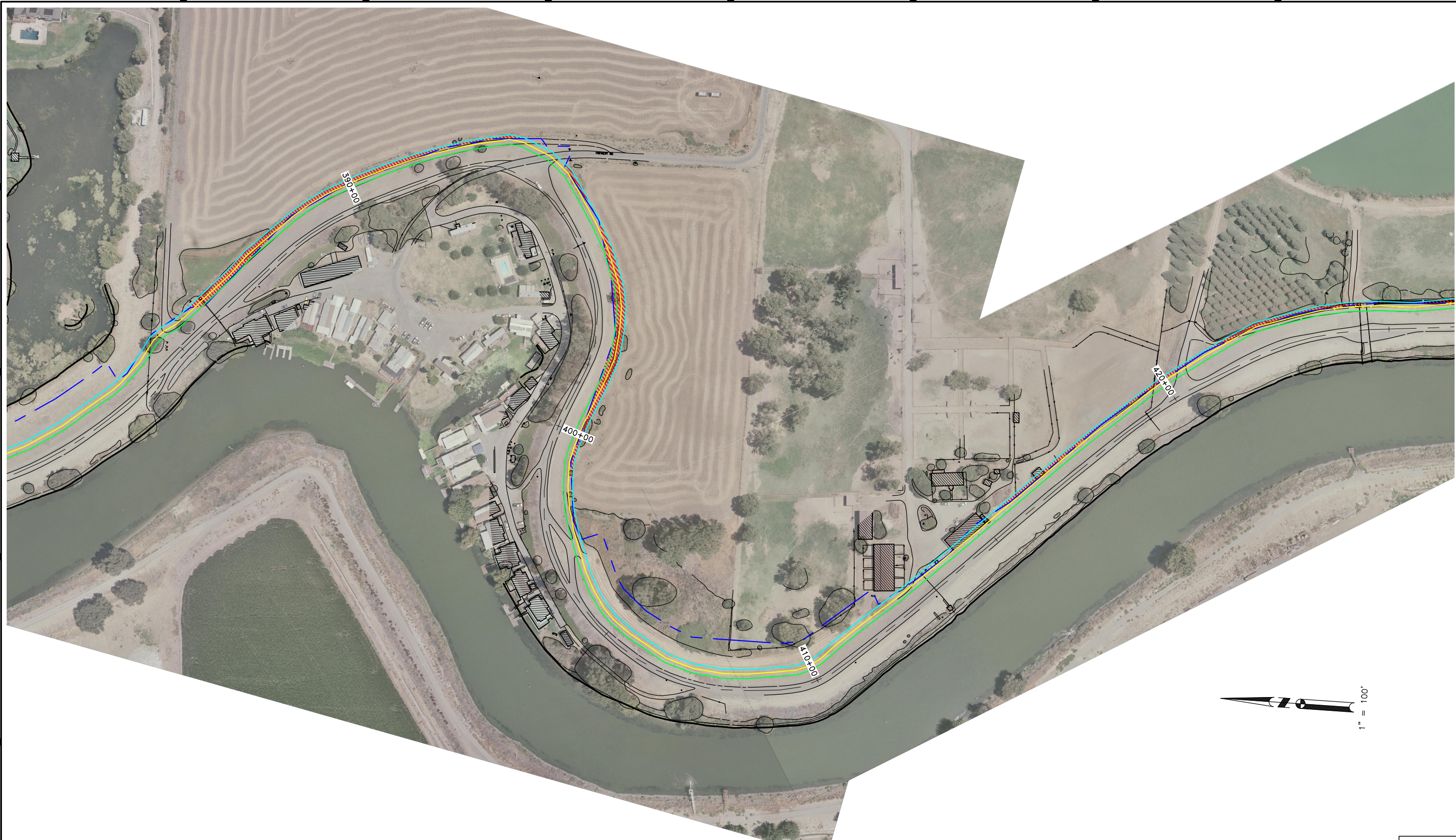
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**7.11 RIGHT-OF-WAY
 PLAN VIEW
 STA. 360+00 TO 390+00**

Revisions				Design	Scale	Date
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LEGEND:

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	10' OFFSET FROM LEVEE TOE		EASEMENT DEFICIENCY
	20' OFFSET FROM LEVEE TOE		

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**CITIES OF LATHROP AND MANTECA
 ULDC EVALUATION
 SAN JOAQUIN COUNTY, CALIFORNIA**

**7.11 RIGHT-OF-WAY
 PLAN VIEW
 STA. 390+00 TO 420+00**

Revisions			
No.	Description	Date	By






Design EEA	Scale 1" = 100' Original Drawing Scale 0 1/2" 1" 	Date AUGUST 2015
Drawn EEA		Sheet Number 14 Of 33
Check CHN		Project File No. 2255-0030

FILE SPEC: C:\Users\vealmaaas\appdata\local\temp\AcPublish_5072\ShL_7-11_Right-of-Way.dwg
 PLOT DATE: Dec 07, 2015 1:40pm



PRELIMINARY
 NOT FOR CONSTRUCTION
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LEGEND:

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	10' OFFSET FROM LEVEE TOE		EASEMENT DEFICIENCY
	20' OFFSET FROM LEVEE TOE		

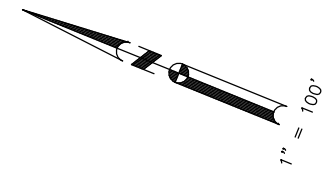
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7.11 RIGHT-OF-WAY
PLAN VIEW
 STA. 420+00 TO 450+00

Revisions				Design EEA	Scale	Date
No.	Description	Date	By	Appr. By		August 2015
					1" = 100'	


Drawn EEA	Original Drawing Scale 0 1/2" 1"	Sheet Number
Check CHN		15 Of 33
Project File No.		2255-0030

FILE SPEC: C:\Users\vealmaaas\appdata\local\temp\AcPublish_5072\ShL_7-11_Right-of-Way.dwg
 PLOT DATE: Dec 07, 2015 1:41pm



PRELIMINARY
 NOT FOR CONSTRUCTION
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LEGEND:

	LEVEE TOE		APPROXIMATE EASEMENT
	10' OFFSET FROM LEVEE TOE		EASEMENT DEFICIENCY
	20' OFFSET FROM LEVEE TOE		

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 SAN JOAQUIN COUNTY, CALIFORNIA**

**7.11 RIGHT-OF-WAY
 PLAN VIEW
 STA. 450+00 TO 480+00**

Revisions				
No.	Description	Date	By	Appr. By

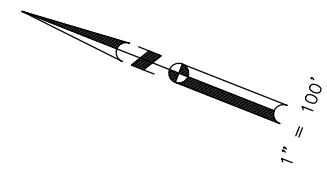
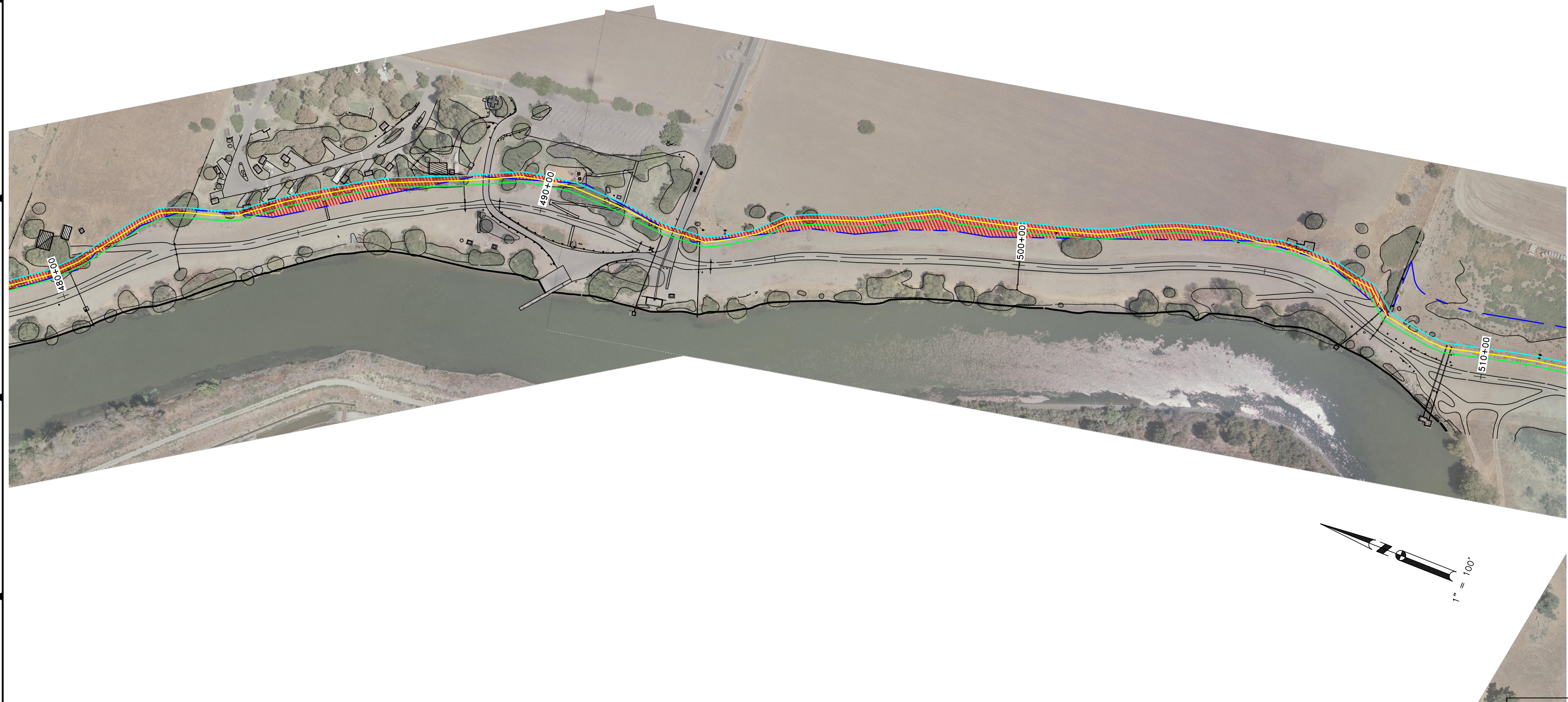
Design EEA	Scale 1" = 100' Original Drawing Scale 0 1/2" 1" 
Drawn EEA	
Check CHN	

Date
AUGUST 2015

Sheet Number
16 Of 33






Project File No.
2255-0030

FILE SPEC: C:\Users\vealmaaas\appdata\local\temp\AcPublish_5072\ShL_7-11_Right-of-Way.dwg
 PLOT DATE: Dec 07, 2015 1:42pm



PRELIMINARY
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LEGEND:

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	10' OFFSET FROM LEVEE TOE		EASEMENT DEFICIENCY
	20' OFFSET FROM LEVEE TOE		

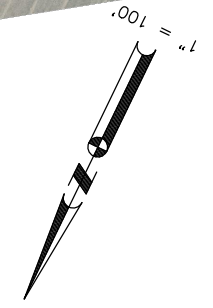
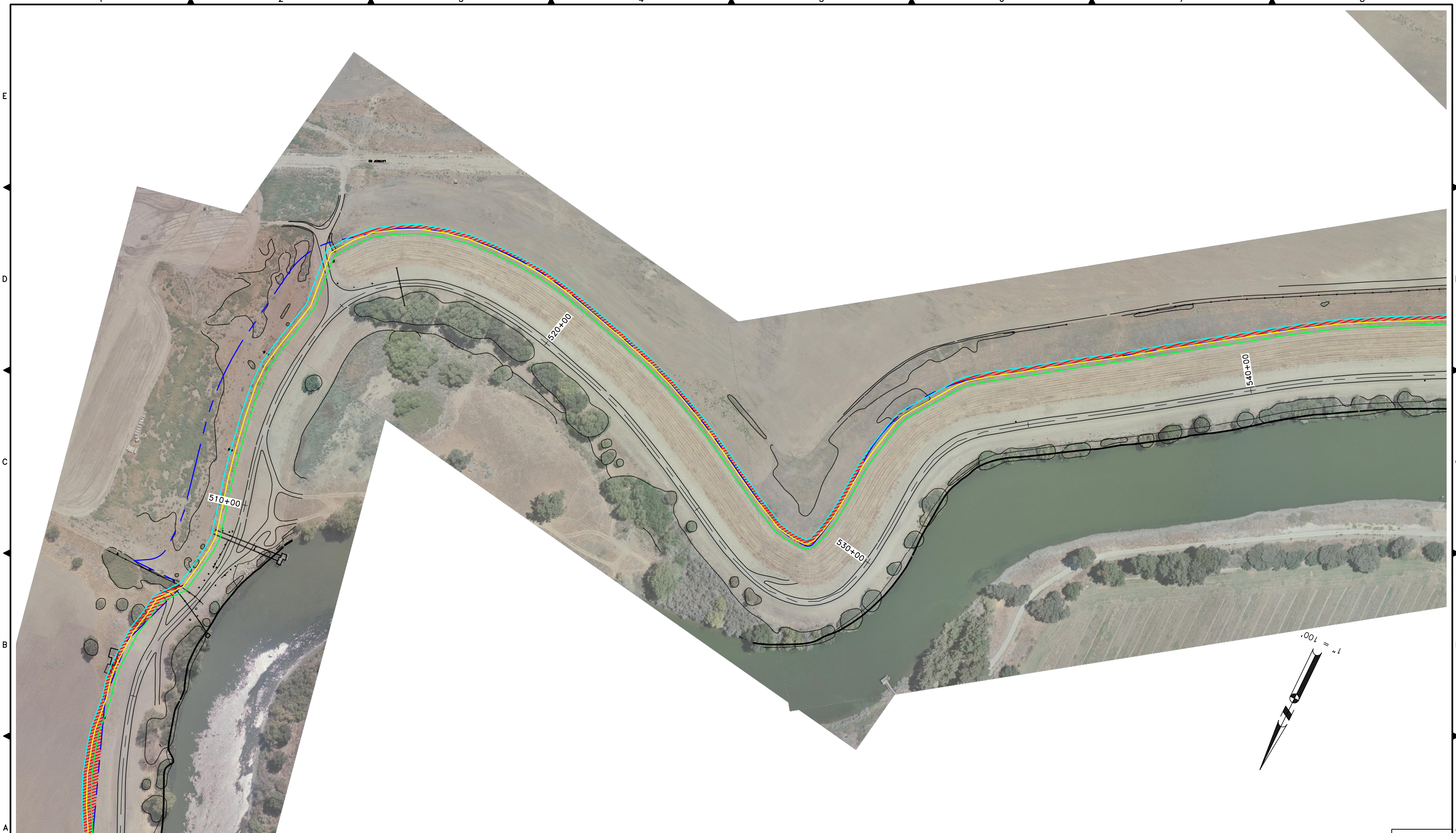
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7.11 RIGHT-OF-WAY
PLAN VIEW
 STA. 480+00 TO 510+00

Revisions				
No.	Description	Date	By	Appr. By






Design EEA	Scale 1" = 100' Original Drawing Scale 0 1/2" 1" 	Date AUGUST 2015
Drawn EEA		Sheet Number 17 Of 33
Check CHN		Project File No. 2255-0030

FILE SPEC: C:\Users\vealmaa\appdata\local\temp\AcPublish_5072\ShL_7-11_Right-of-Way.dwg
 PLOT DATE: Dec 07, 2015 1:43pm



PRELIMINARY
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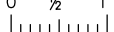
LEGEND:

	LEVEE TOE		APPROXIMATE EASEMENT
	10' OFFSET FROM LEVEE TOE		EASEMENT DEFICIENCY
	20' OFFSET FROM LEVEE TOE		

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7.11 RIGHT-OF-WAY
PLAN VIEW
 STA. 510+00 TO 540+00

Revisions				
No.	Description	Date	By	Apprd. By

Design EEA	Scale 1" = 100' Original Drawing Scale 0 1/2" 1" 
Drawn EEA	
Check CHN	

Date
AUGUST 2015
 Sheet Number
18 Of 33
 Project File No.
 2255-0030

FILE SPEC: C:\Users\vealmaaas\appdata\local\temp\AcPublish_5072\ShL_7-11_Right-of-Way.dwg
 PLOT DATE: Dec 07, 2015 - 1:44pm



PRELIMINARY
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LEGEND:

	LEVEE TOE		APPROXIMATE EASEMENT
	10' OFFSET FROM LEVEE TOE		EASEMENT DEFICIENCY
	20' OFFSET FROM LEVEE TOE		

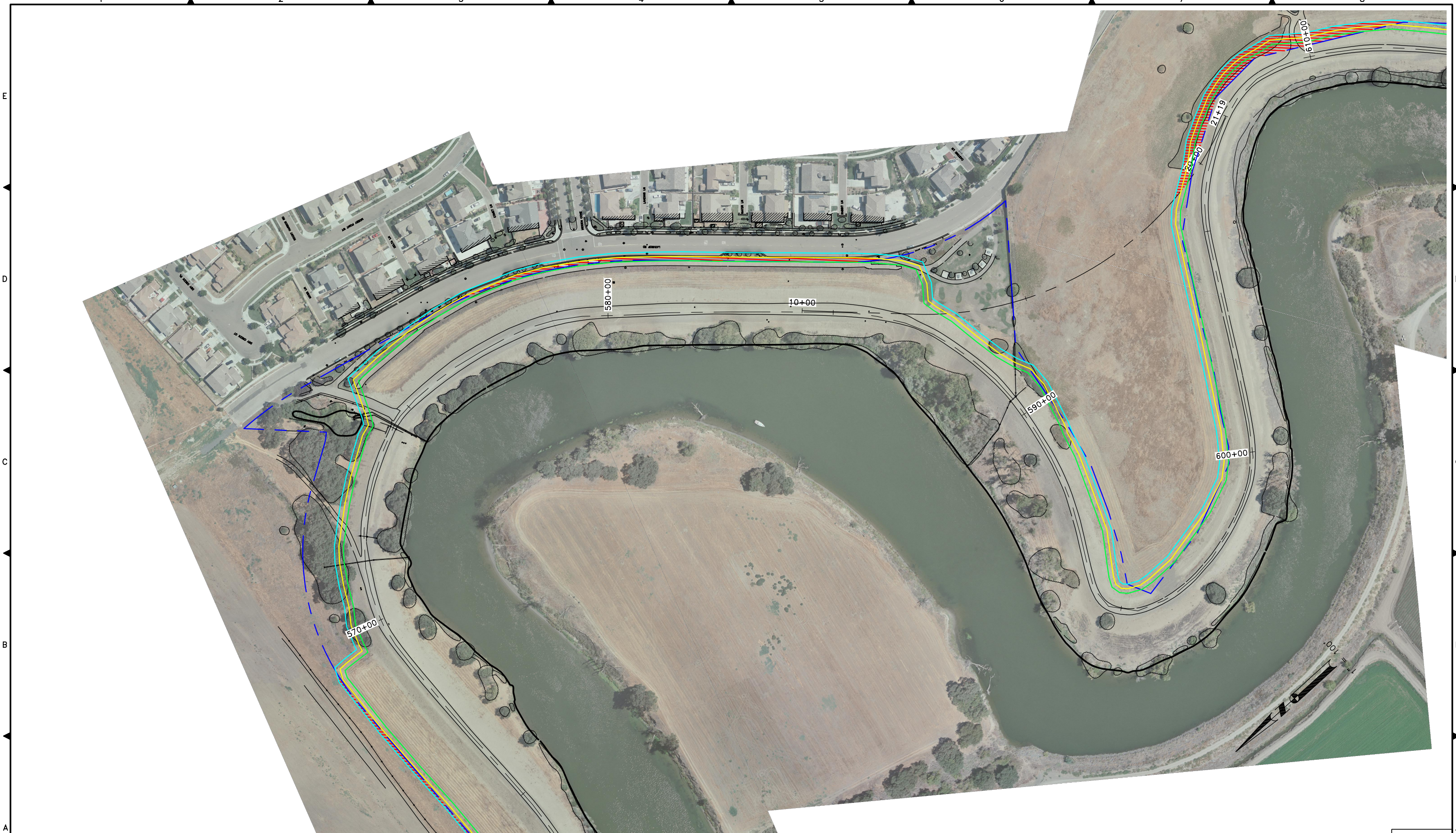
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**CITIES OF LATHROP AND MANTECA
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 SAN JOAQUIN COUNTY, CALIFORNIA**
**7.11 RIGHT-OF-WAY
 PLAN VIEW
 STA. 540+00 TO 570+00**

Revisions				
No.	Description	Date	By	Apprd. By






Design EEA	Scale 1" = 100' Original Drawing Scale 0 1/2" 1" 	Date AUGUST 2015
Drawn EEA		Sheet Number 19 Of 33
Check CHN		Project File No. 2255-0030

FILE SPEC: C:\Users\vealmaaas\appdata\local\temp\AcPublish_5072\ShL_7-11_Right-of-Way.dwg
 PLOT DATE: Dec 07, 2015 1:45pm



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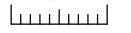
LEGEND:

	LEVEE TOE		APPROXIMATE EASEMENT
	10' OFFSET FROM LEVEE TOE		EASEMENT DEFICIENCY
	20' OFFSET FROM LEVEE TOE		

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CITIES OF LATHROP AND MANTECA
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7.11 RIGHT-OF-WAY
PLAN VIEW
 STA. 570+00 TO 600+00

Revisions			
No.	Description	Date	By

Design EEA	Scale 1" = 100' Original Drawing Scale 0 1/2" 1" 	Date AUGUST 2015
Drawn EEA		Sheet Number 20 Of 33
Check CHN		Project File No. 2255-0030

FILE SPEC: C:\Users\vealmaaas\appdata\local\temp\AcPublish_5072\ShL_7-11_Right-of-Way.dwg
 PLOT DATE: Dec 07, 2015 - 1:46pm



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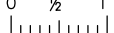
LEGEND:

	LEVEE TOE		APPROXIMATE EASEMENT
	10' OFFSET FROM LEVEE TOE		EASEMENT DEFICIENCY
	20' OFFSET FROM LEVEE TOE		

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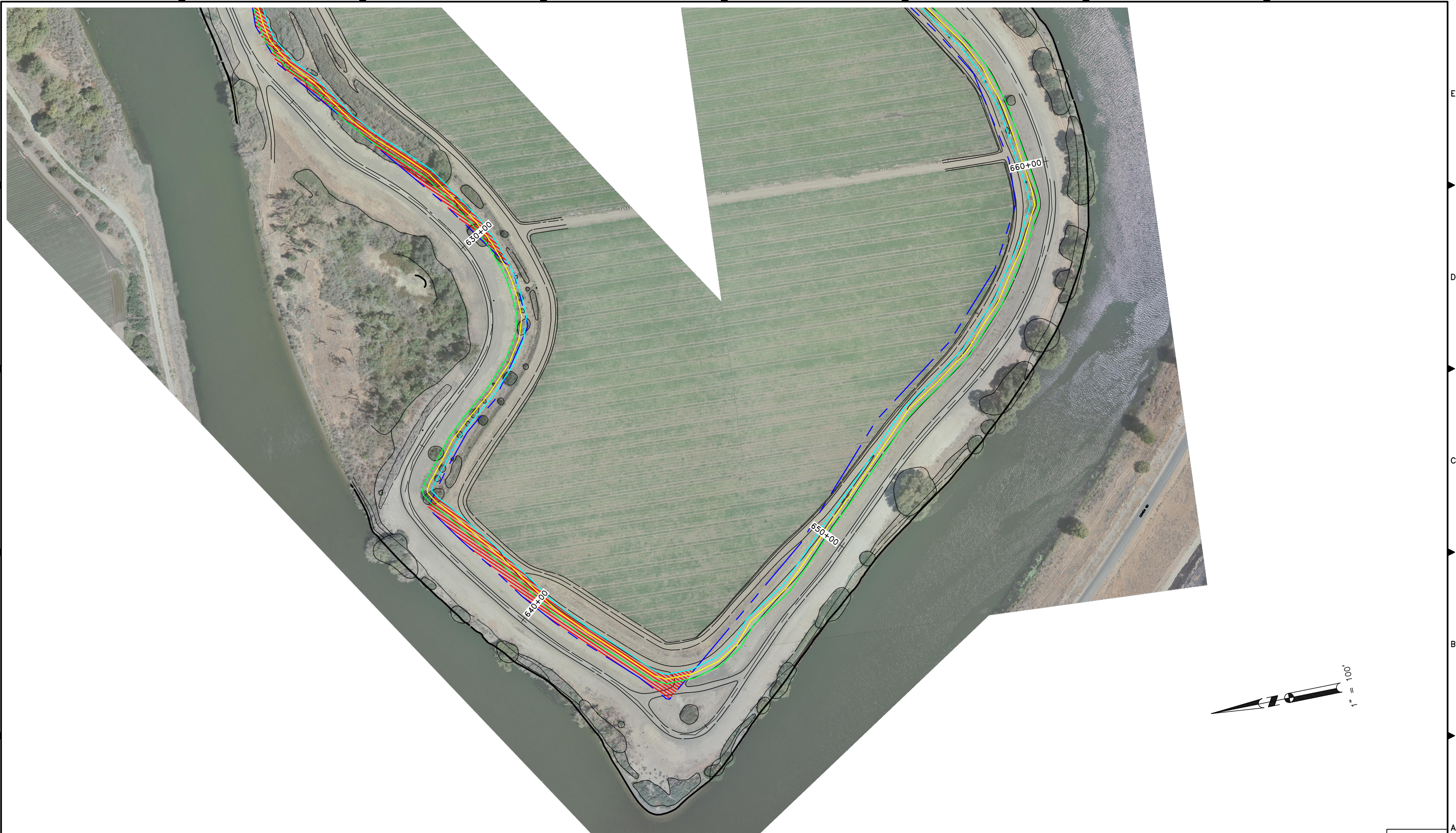
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 SAN JOAQUIN COUNTY, CALIFORNIA**
**7.11 RIGHT-OF-WAY
 PLAN VIEW
 STA. 600+00 TO 630+00**

Revisions				
No.	Description	Date	By	Apprd. By

Design EEA	Scale 1" = 100' Original Drawing Scale 0 1/2" 1" 
Drawn EEA	
Check CHN	

Date
AUGUST 2015
 Sheet Number
21 Of 33
 Project File No.
2255-0030

FILE SPEC: C:\Users\vealmaaas\appdata\local\temp\AcPublish_5072\ShL_7-11_Right-of-Way.dwg
 PLOT DATE: Dec 07, 2015 - 1:47pm



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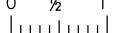
LEGEND:

	LEVEE TOE		APPROXIMATE EASEMENT
	10' OFFSET FROM LEVEE TOE		EASEMENT DEFICIENCY
	20' OFFSET FROM LEVEE TOE		

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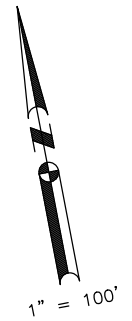
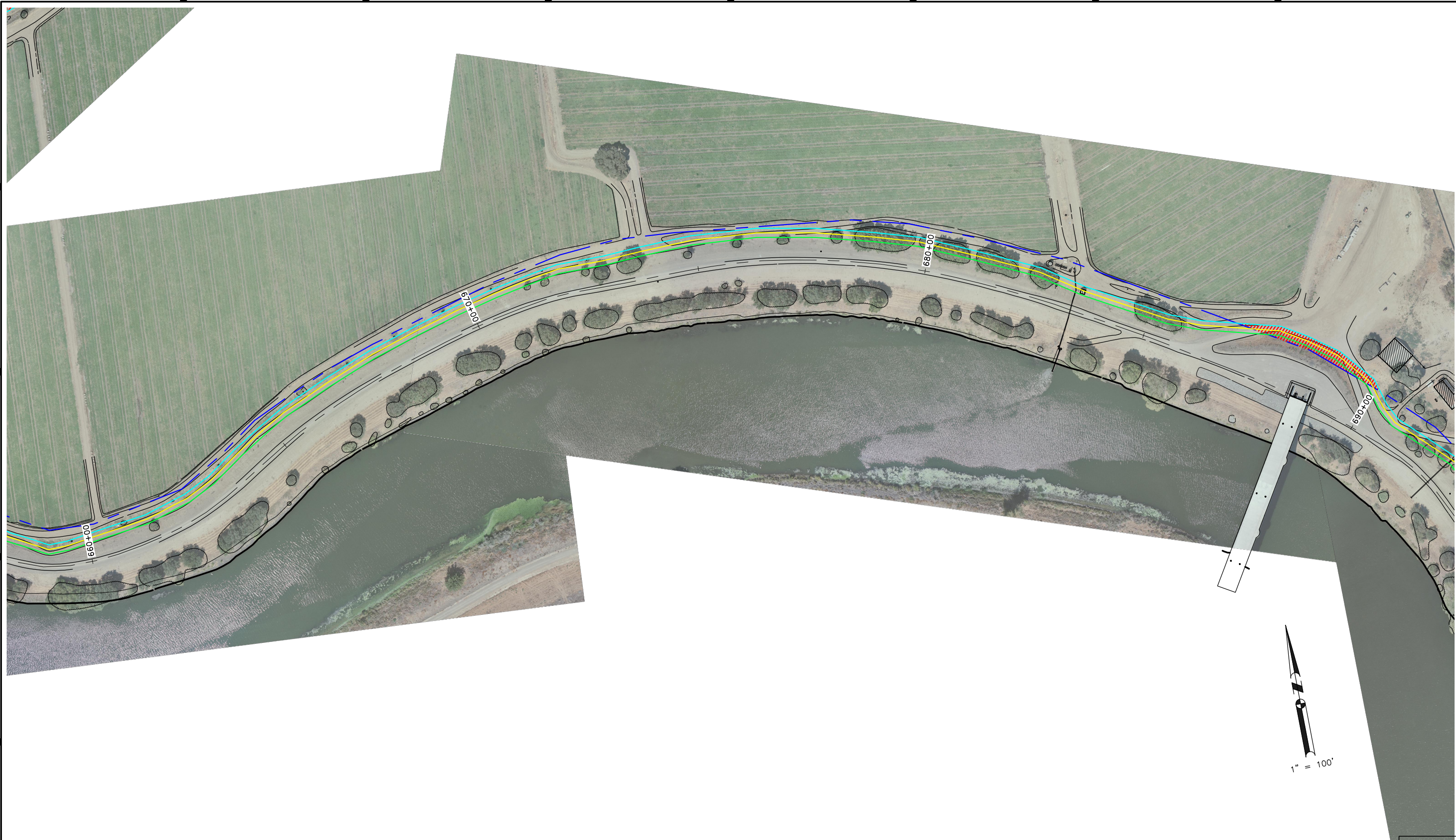
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 SAN JOAQUIN COUNTY, CALIFORNIA
7.11 RIGHT-OF-WAY
PLAN VIEW
 STA. 630+00 TO 660+00

Revisions				
No.	Description	Date	By	Apprd. By

Design EEA	Scale 1" = 100' Original Drawing Scale 0 1/2" 1" 
Drawn EEA	
Check CHN	

Date
AUGUST 2015
 Sheet Number
22 Of 33
 Project File No.
2255-0030

FILE SPEC: C:\Users\vealmaaas\appdata\local\temp\AcPublish_5072\ShL_7-11_Right-of-Way.dwg
 PLOT DATE: Dec 07, 2015 1:48pm



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LEGEND:

	LEVEE TOE		APPROXIMATE EASEMENT
	10' OFFSET FROM LEVEE TOE		EASEMENT DEFICIENCY
	20' OFFSET FROM LEVEE TOE		

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7.11 RIGHT-OF-WAY
PLAN VIEW
 STA. 660+00 TO 690+00

Revisions				
No.	Description	Date	By	Apprd. By

Design EEA	Scale 1" = 100' Original Drawing Scale 0 1/2" 1" 
Drawn EEA	
Check CHN	

Date **AUGUST 2015**
 Sheet Number **23** Of **33**
 Project File No. **2255-0030**

FILE SPEC: C:\Users\vealmaaas\appdata\local\temp\AcPublish_5072\ShL_7-11_Right-of-Way.dwg
 PLOT DATE: Dec 07, 2015 - 1:49pm



PRELIMINARY
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LEGEND:

	LEVEE TOE		APPROXIMATE EASEMENT
	10' OFFSET FROM LEVEE TOE		EASEMENT DEFICIENCY
	20' OFFSET FROM LEVEE TOE		

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**7.11 RIGHT-OF-WAY
 PLAN VIEW
 STA. 690+00 TO 720+00**

Revisions				
No.	Description	Date	By	Apprd. By

Design EEA	Scale 1" = 100' Original Drawing Scale 0 1/2" 1" 	Date AUGUST 2015
Drawn EEA		Sheet Number 24 Of 33
Check CHN		Project File No. 2255-0030

FILE SPEC: C:\Users\eamlaas\appdata\local\temp\AcPublish_5072\ShL_7-11_Right-of-Way.dwg
 PLOT DATE: Dec 07, 2015 1:49pm



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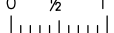
LEGEND:

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	10' OFFSET FROM LEVEE TOE		EASEMENT DEFICIENCY
	20' OFFSET FROM LEVEE TOE		

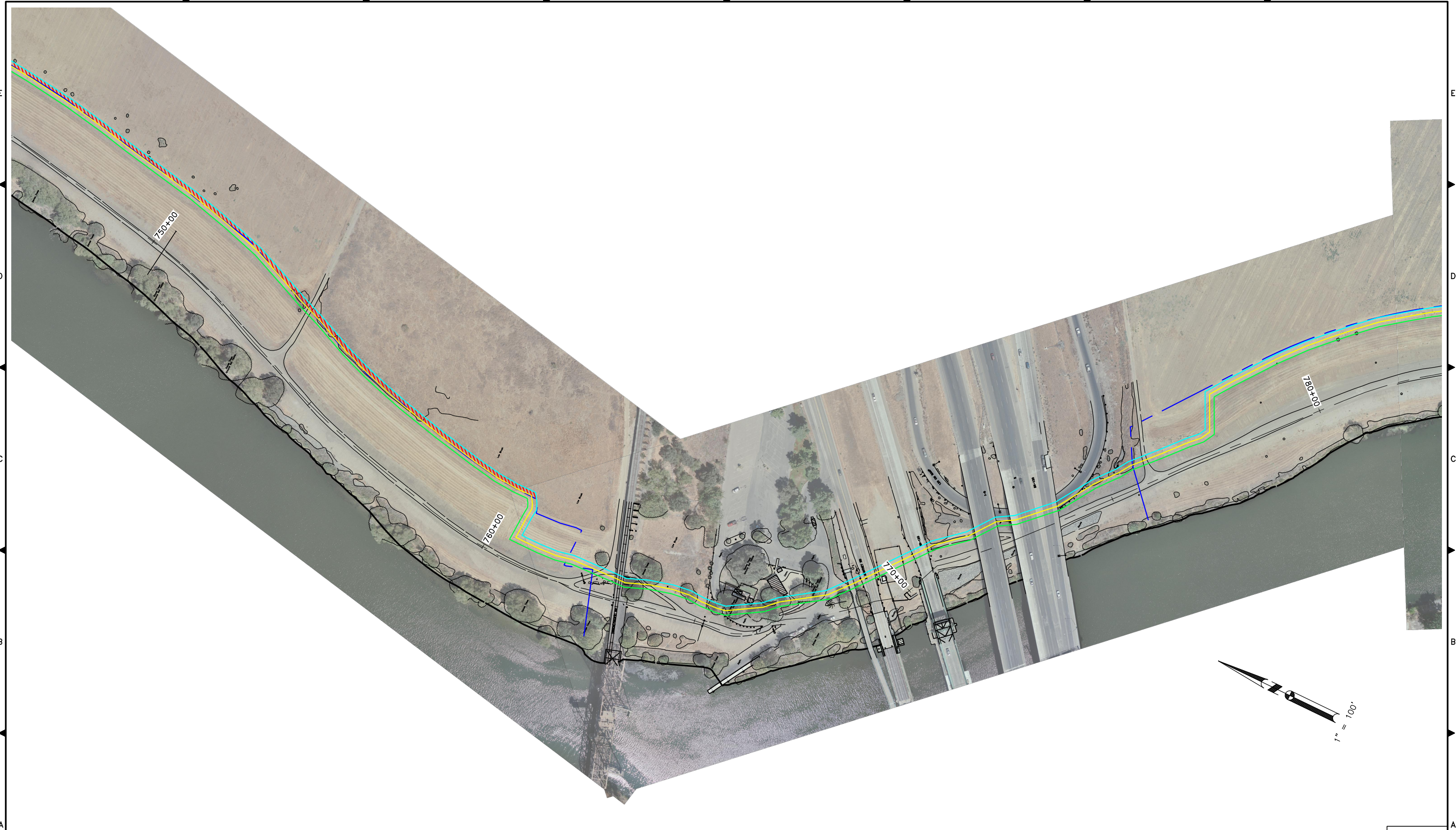
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7.11 RIGHT-OF-WAY
PLAN VIEW
 STA. 720+00 TO 750+00

Revisions				
No.	Description	Date	By	Apprd. By

Design EEA	Scale 1" = 100' Original Drawing Scale 0 1/2" 1" 	Date AUGUST 2015
Drawn EEA		Sheet Number 25 Of 33
Check CHN		Project File No. 2255-0030

FILE SPEC: C:\Users\vealmaaas\appdata\local\temp\AcPublish_5072\ShL_7-11_Right-of-Way.dwg
 PLOT DATE: Dec 07, 2015 - 1:50pm



PRELIMINARY
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LEGEND:

	LEVEE TOE		APPROXIMATE EASEMENT
	10' OFFSET FROM LEVEE TOE		EASEMENT DEFICIENCY
	20' OFFSET FROM LEVEE TOE		

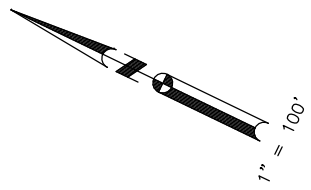
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7.11 RIGHT-OF-WAY
PLAN VIEW
 STA. 750+00 TO 780+00

Revisions				
No.	Description	Date	By	Apprd. By






Design EEA	Scale 1" = 100' Original Drawing Scale 0 1/2" 1" 	Date AUGUST 2015
Drawn EEA		Sheet Number 26 Of 33
Check CHN		Project File No. 2255-0030

FILE SPEC: C:\Users\vealmaaas\appdata\local\temp\AcPublish_5072\ShL_7-11_Right-of-Way.dwg
 PLOT DATE: Dec 07, 2015 - 1:51pm



PRELIMINARY
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LEGEND:

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	10' OFFSET FROM LEVEE TOE		EASEMENT DEFICIENCY
	20' OFFSET FROM LEVEE TOE		

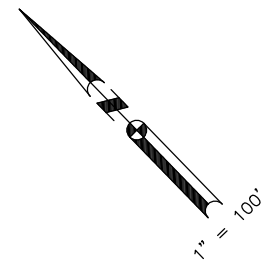
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**7.11 RIGHT-OF-WAY
 PLAN VIEW**
 STA. 780+00 TO 810+00

Revisions				
No.	Description	Date	By	Apprd. By

Design EEA	Scale 1" = 100' Original Drawing Scale 0 1/2" 1"	Date	AUGUST 2015
Drawn EEA		Sheet Number	27 Of 33
Check CHN		Project File No.	2255-0030

FILE SPEC: C:\Users\eamlaas\appdata\local\temp\AcPublish_5072\ShL_7-11_Right-of-Way.dwg
 PLOT DATE: Dec 07, 2015 1:53pm



PRELIMINARY
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LEGEND:

	LEVEE TOE		APPROXIMATE EASEMENT
	10' OFFSET FROM LEVEE TOE		EASEMENT DEFICIENCY
	20' OFFSET FROM LEVEE TOE		

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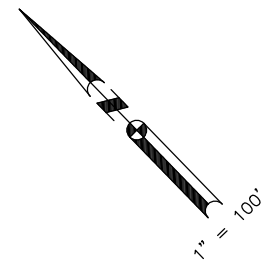
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 SAN JOAQUIN COUNTY, CALIFORNIA
**7.11 RIGHT-OF-WAY
 PLAN VIEW**
 STA. 810+00 TO 840+00

Revisions				
No.	Description	Date	By	Apprd. By

Design EEA	Scale 1" = 100' Original Drawing Scale 0 1/2" 1" 
Drawn EEA	
Check CHN	






Date **AUGUST 2015**
 Sheet Number **28** Of 33
 Project File No. 2255-0030

FILE SPEC: C:\Users\vealmaaas\appdata\local\temp\AcPublish_5072\ShL_7-11_Right-of-Way.dwg
 PLOT DATE: Dec 07, 2015 1:54pm



PRELIMINARY
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LEGEND:

	LEVEE TOE		APPROXIMATE EASEMENT
	10' OFFSET FROM LEVEE TOE		EASEMENT DEFICIENCY
	20' OFFSET FROM LEVEE TOE		

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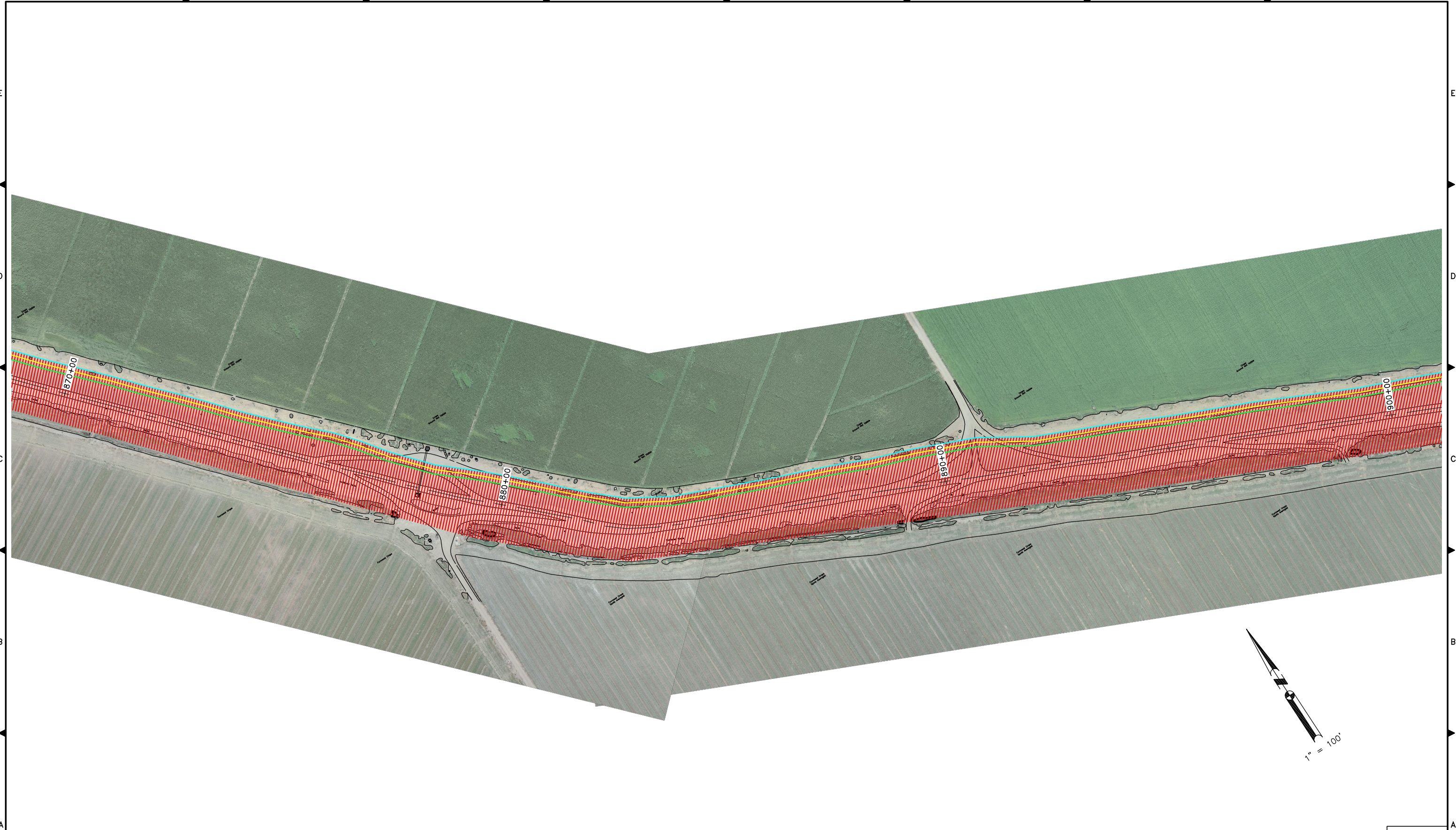
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 SAN JOAQUIN COUNTY, CALIFORNIA**
**7.11 RIGHT-OF-WAY
 PLAN VIEW
 STA. 840+00 TO 870+00**

Revisions				
No.	Description	Date	By	Apprd. By

Design EEA
 Drawn EEA
 Check CHN
 Scale 1" = 100'
 Original Drawing Scale 0 1/2" 1"


Date AUGUST 2015
 Sheet Number 29 Of 33
 Project File No. 2255-0030

FILE SPEC: C:\Users\vealmaaas\appdata\local\temp\AcPublish_5072\ShL_7-11_Right-of-Way.dwg
 PLOT DATE: Dec 07, 2015 - 1:54pm



PRELIMINARY
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LEGEND:

	LEVEE TOE		APPROXIMATE EASEMENT
	10' OFFSET FROM LEVEE TOE		EASEMENT DEFICIENCY
	20' OFFSET FROM LEVEE TOE		

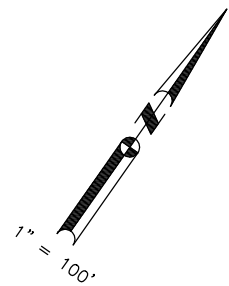
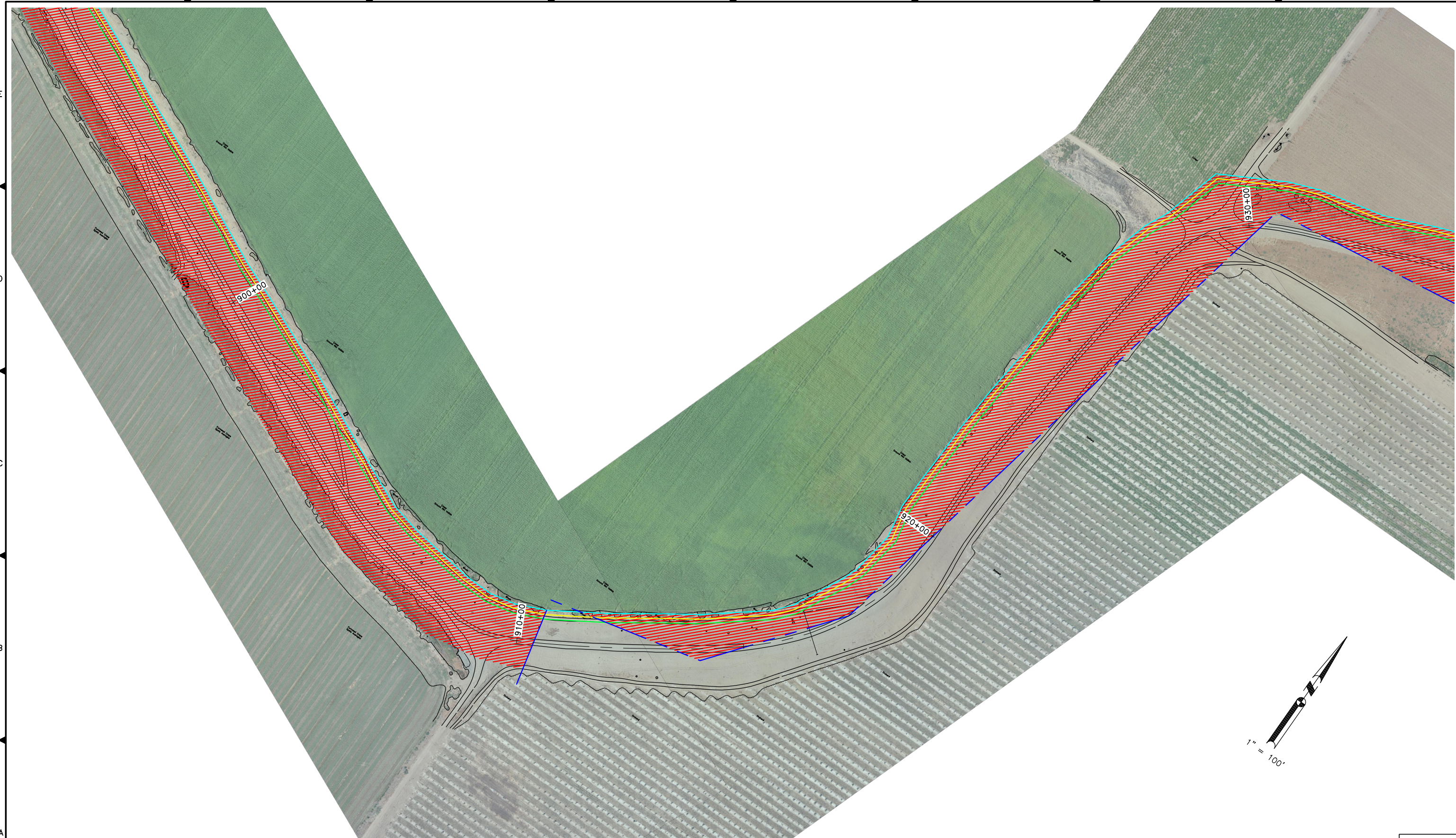
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7.11 RIGHT-OF-WAY
PLAN VIEW
 STA. 870+00 TO 900+00

Revisions				
No.	Description	Date	By	Apprd. By

Design EEA	Scale 1" = 100' Original Drawing Scale 0 1/2" 1" 	Date AUGUST 2015
Drawn EEA		Sheet Number 30 Of 33
Check CHN		Project File No. 2255-0030

FILE SPEC: C:\Users\vealmaaas\appdata\local\temp\AcPublish_5072\ShL_7-11_Right-of-Way.dwg
 PLOT DATE: Dec 07, 2015 - 1:55pm



PRELIMINARY
 NOT FOR CONSTRUCTION
 - FOR STUDY ONLY -


LEGEND:

	LEVEE TOE		APPROXIMATE EASEMENT
	10' OFFSET FROM LEVEE TOE		EASEMENT DEFICIENCY
	20' OFFSET FROM LEVEE TOE		

K S N INC.
KJELDSSEN SINNOCK NEUDECK
 Civil Engineers and Land Surveyors
 711 N Pershing Avenue
 Stockton, CA 95203
 209-946-0268
 1355 Halyard Drive, Suite 100
 West Sacramento, CA 95691
 916-403-5900
 www.ksninc.com

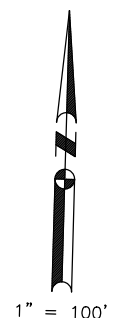
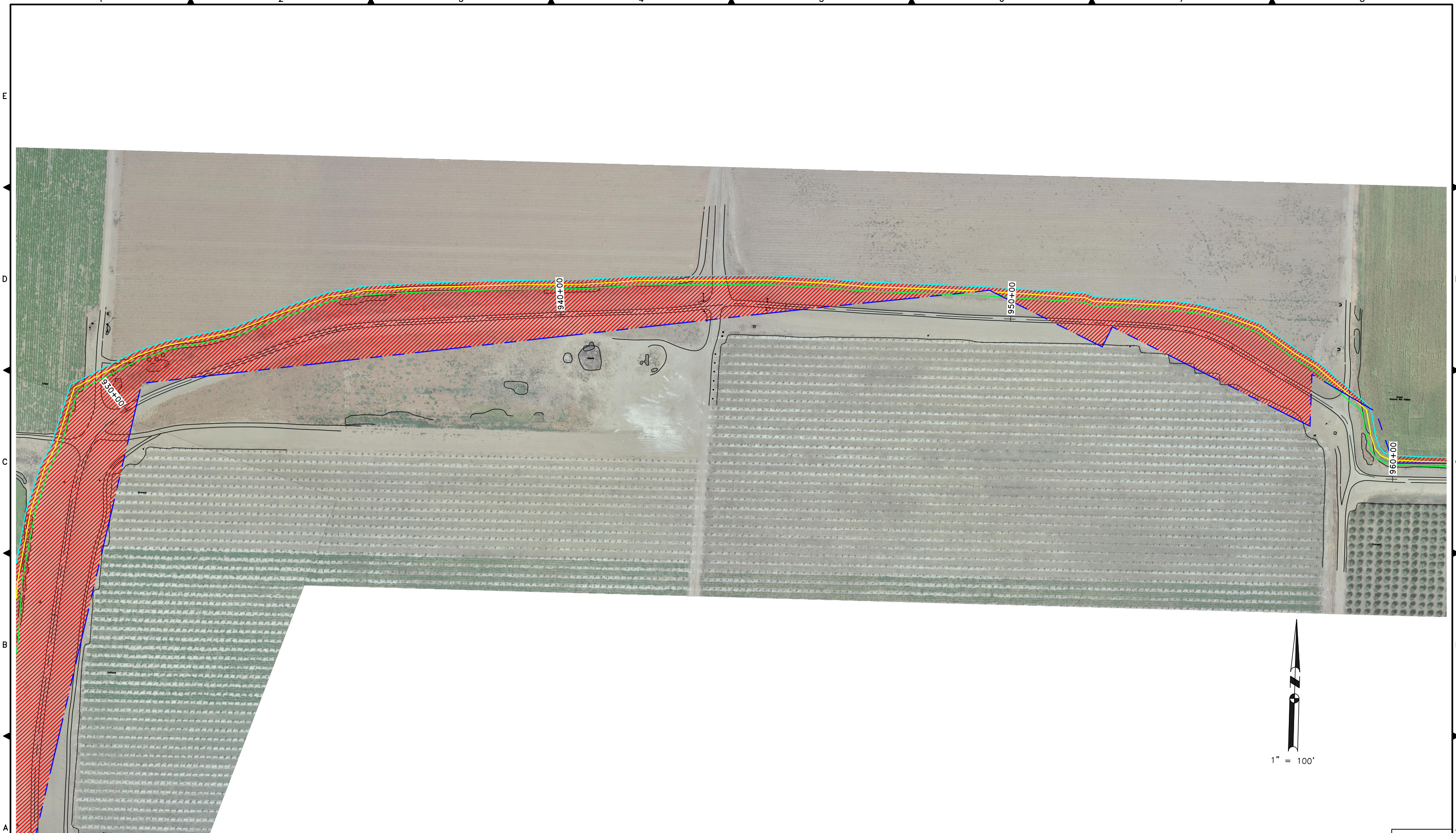
**CITIES OF LATHROP AND MANTECA
 ULDC EVALUATION
 SAN JOAQUIN COUNTY, CALIFORNIA**
**7.11 RIGHT-OF-WAY
 PLAN VIEW
 STA. 900+00 TO 930+00**

Revisions				
No.	Description	Date	By	Apprd. By

Design EEA
 Drawn EEA
 Check CHN
 Scale
 1" = 100'
 Original Drawing Scale
 0 1/2" 1"


Date AUGUST 2015
 Sheet Number **31** Of 33
 Project File No. 2255-0030

FILE SPEC: C:\Users\vealmaaas\appdata\local\temp\AcPublish_5072\ShL_7-11_Right-of-Way.dwg
 PLOT DATE: Dec 07, 2015 - 1:56pm



PRELIMINARY
 NOT FOR CONSTRUCTION
 - FOR STUDY ONLY -

LEGEND:

	LEVEE TOE		APPROXIMATE EASEMENT
	10' OFFSET FROM LEVEE TOE		EASEMENT DEFICIENCY
	20' OFFSET FROM LEVEE TOE		

KS
S
N
 INC.

**KJELDSSEN
 SINNOCK
 NEUDECK**
 Civil Engineers
 and Land Surveyors


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 Stockton, CA 95203
 209-946-0268

1355 Halyard Drive, Suite 100
 West Sacramento, CA 95691
 916-403-5900
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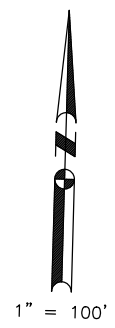
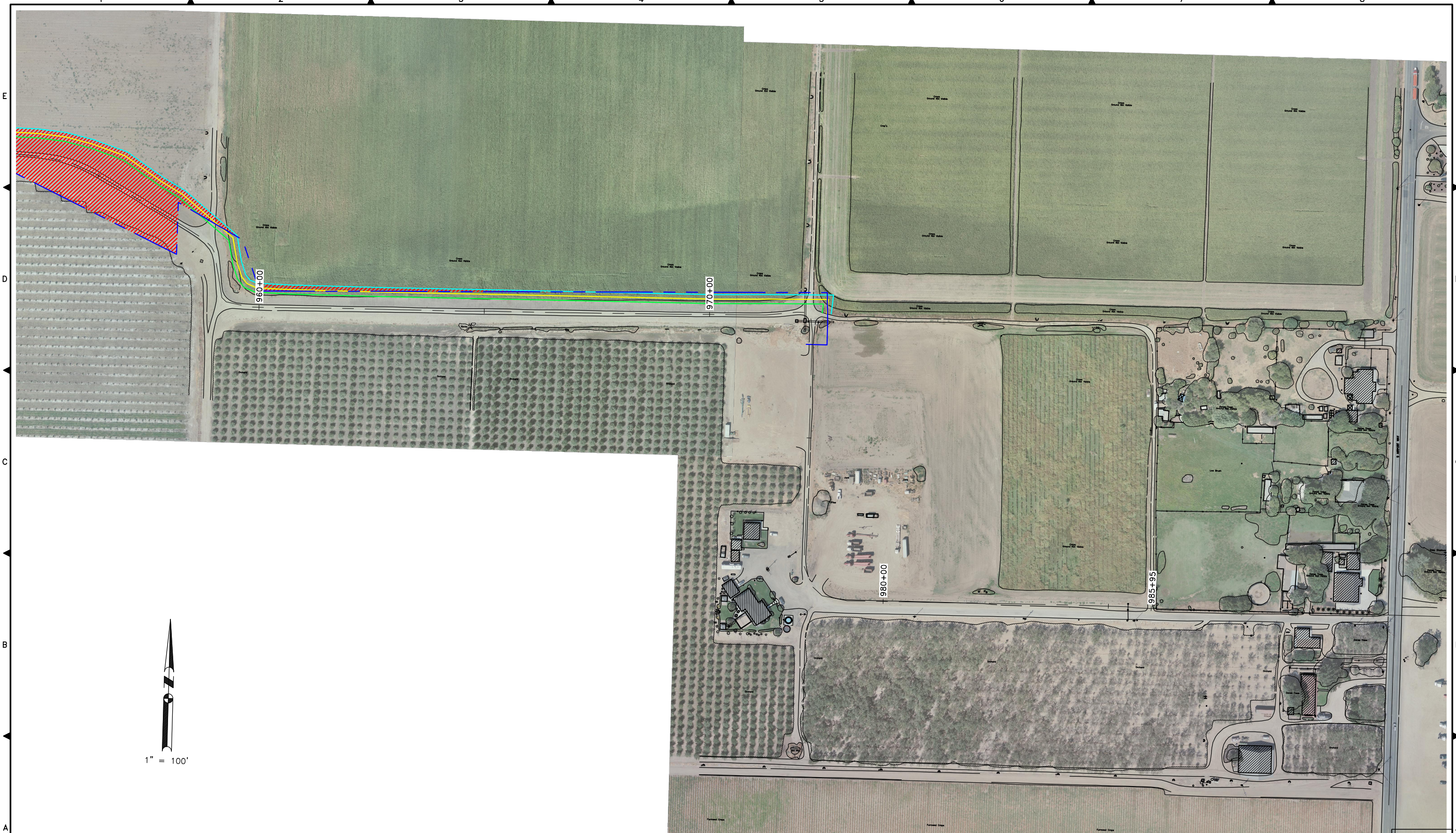
**CITIES OF LATHROP AND MANTECA
 ULDC EVALUATION
 SAN JOAQUIN COUNTY, CALIFORNIA**

**7.11 RIGHT-OF-WAY
 PLAN VIEW
 STA. 930+00 TO 960+00**

Revisions				
No.	Description	Date	By	Apprd. By



Design EEA	Scale 1" = 100' Original Drawing Scale 0 1/2" 1" 	Date AUGUST 2015
Drawn EEA		Sheet Number 32 Of 33
Check CHN		Project File No. 2255-0030

FILE SPEC: C:\Users\eamlaas\appdata\local\temp\AcPublish_5072\ShL_7-11_Right-of-Way.dwg
 PLOT DATE: Dec 07, 2015 - 1:57pm



PRELIMINARY
 NOT FOR CONSTRUCTION
 - FOR STUDY ONLY -

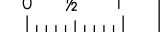
LEGEND:

	LEVEE TOE		APPROXIMATE EASEMENT
	10' OFFSET FROM LEVEE TOE		EASEMENT DEFICIENCY
	20' OFFSET FROM LEVEE TOE		

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**CITIES OF LATHROP AND MANTECA
 ULDC EVALUATION
 SAN JOAQUIN COUNTY, CALIFORNIA**
**7.11 RIGHT-OF-WAY
 PLAN VIEW
 STA. 960+00 TO 972+25**

Revisions			
No.	Description	Date	By

Design EEA	Scale	Date
Drawn EEA	1" = 100'	AUGUST 2015
Check CHN	Original Drawing Scale 0 1/8" 1"	Sheet Number 33 Of 33
		Project File No. 2255-0030