Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	34.9/35.0, 43.7/43.9		

INDEX OF PLANS

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	TITLE AND LOCATION MAP
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K-2	KEYMAP - WETLAND ESTABLISHMENT GROUP 1 (1.0 CREDIT)
G1-C5	CONTOUR GRADING PLANS
PP1-PP5	PLANTING LIST
GD1	CONTOUR GRADING DETAIL
K-3	KEYMAP - WETLAND ESTABLISHMENT GROUP 2 (0.3 CREDIT)
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PP6-PP15	PLANTING LIST
GD1	CONTOUR GRADING DETAIL
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PD1	PLANTING DETAIL

STATE OF CALIFORNIA

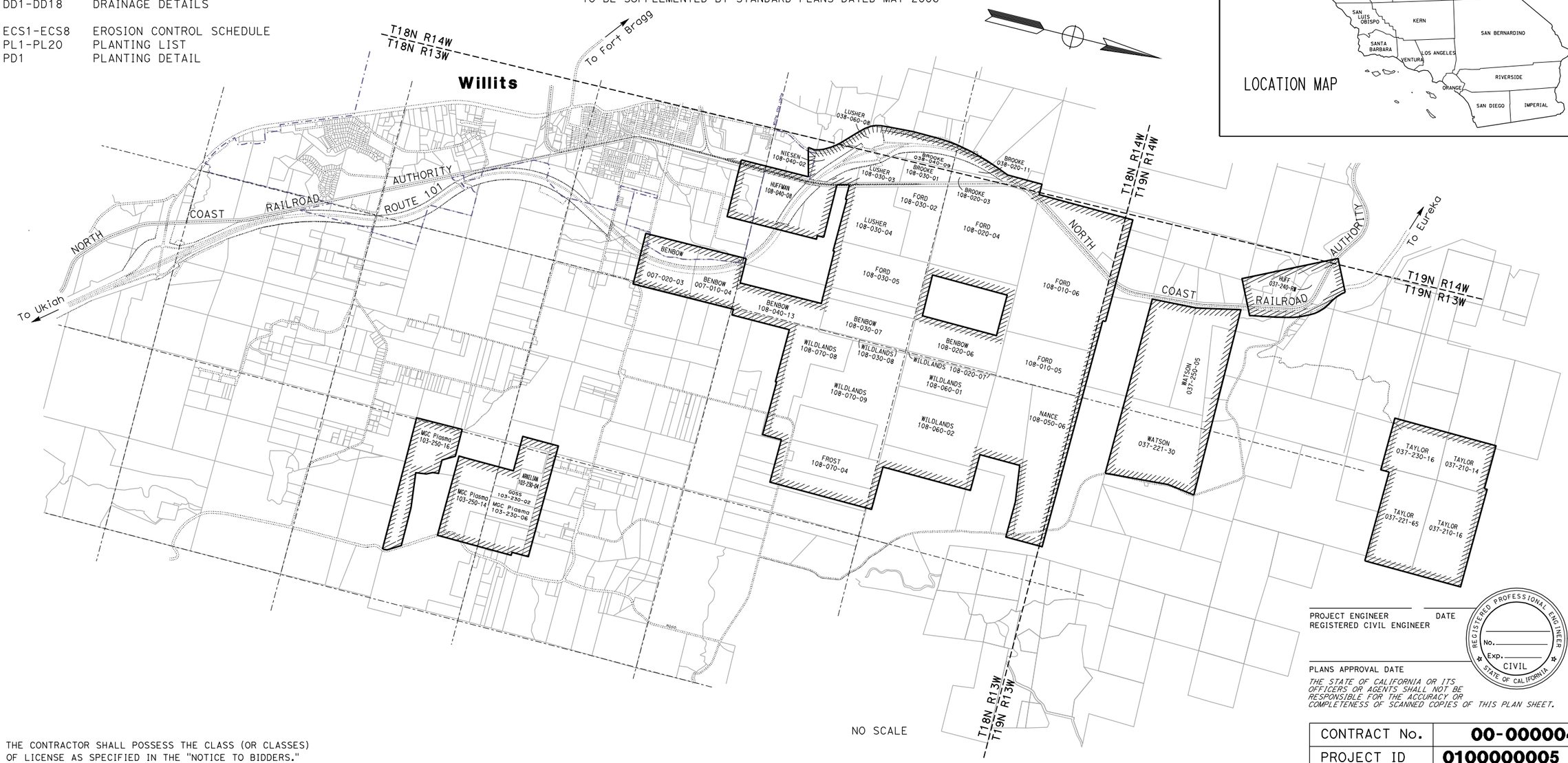
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ADJACENT TO STATE HIGHWAY

IN MENDOCINO COUNTY NEAR WILLITS FROM 1.2 MILES NORTH OF HAEHL ROAD OVERCROSSING TO 0.8 MILES NORTH OF REYNOLDS HIGHWAY

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

LOCATION MAP



NO SCALE

PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

PROJECT MANAGER DAVID G. KELLEY

DESIGN ENGINEER

CONTRACT No.	00-000004
PROJECT ID	0100000005

LAST REVISION 09-29-11

DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 14:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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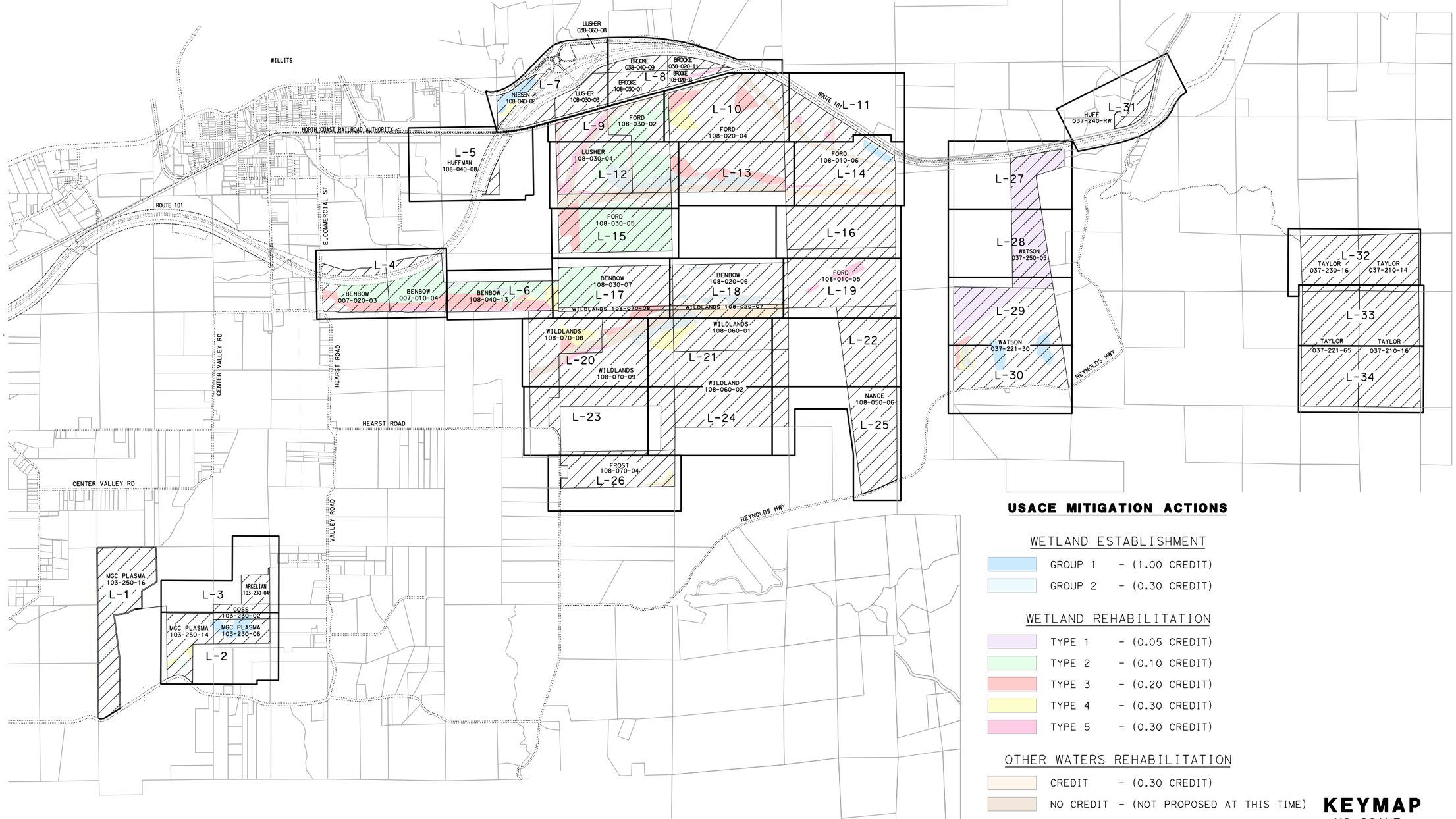

USACE MITIGATION ACTIONS

WETLAND ESTABLISHMENT

- GROUP 1 - (1.00 CREDIT)
- GROUP 2 - (0.30 CREDIT)

WETLAND REHABILITATION

- TYPE 1 - (0.05 CREDIT)
- TYPE 2 - (0.10 CREDIT)
- TYPE 3 - (0.20 CREDIT)
- TYPE 4 - (0.30 CREDIT)
- TYPE 5 - (0.30 CREDIT)

OTHER WATERS REHABILITATION

- CREDIT - (0.30 CREDIT)
- NO CREDIT - (NOT PROPOSED AT THIS TIME)

KEYMAP

NO SCALE

K-1

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FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION 08-02-10 | DATE PLOTTED => 04-OCT-2011 TIME PLOTTED => 07:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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NOTES:

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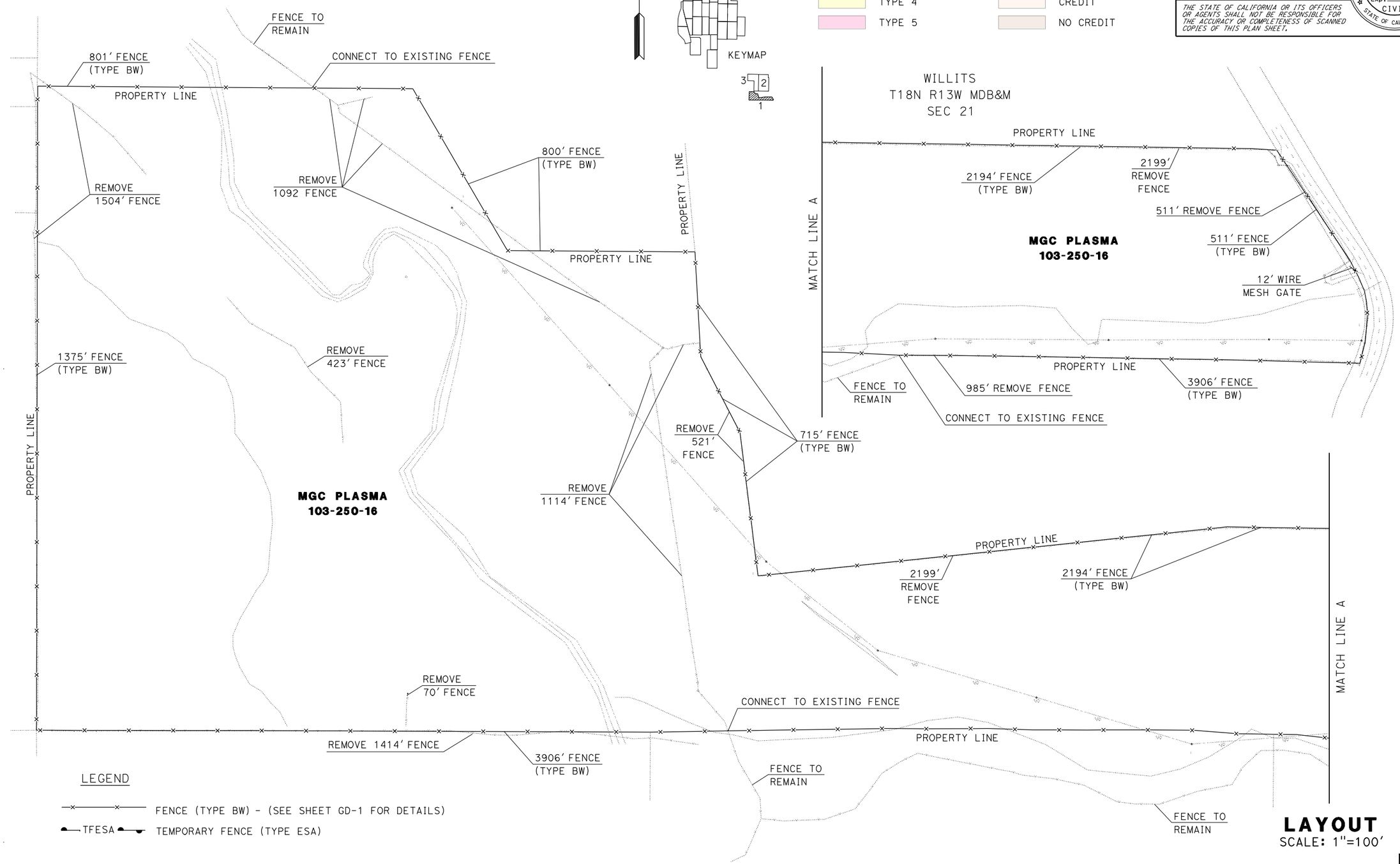
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. LOCATION TO BE DETERMINED BY ENGINEER.

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT



LAYOUT
SCALE: 1"=100'

L-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

FUNCTIONAL SUPERVISOR
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 09-24-11
DATE PLOTTED => 02-OCT-2011
TIME PLOTTED => 20:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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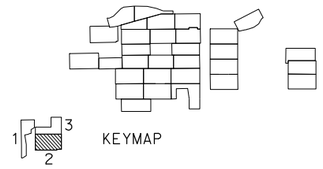
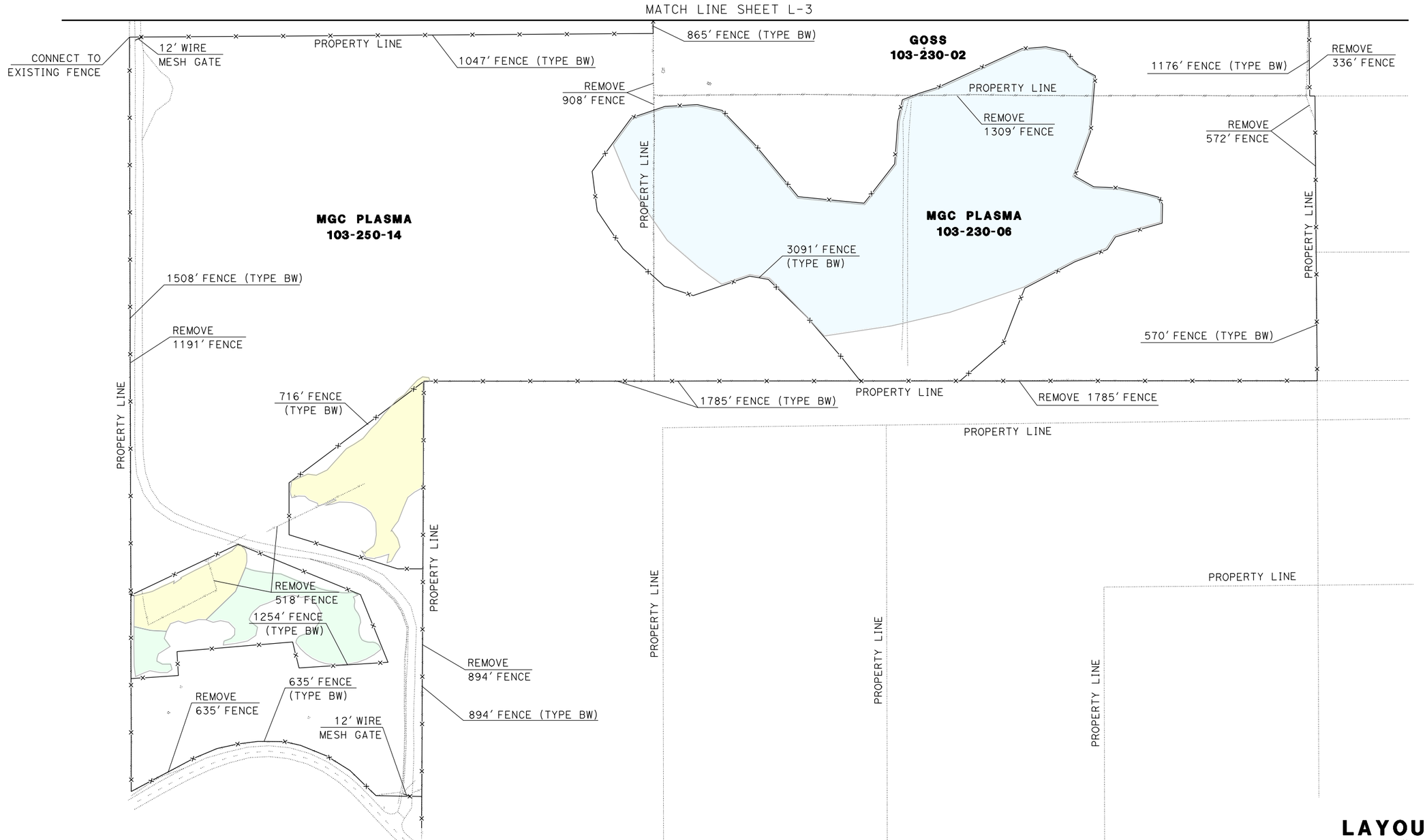


WILLITS
T18N R13W MDB&M
SEC 21

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT



LAYOUT
SCALE: 1"=100'

L-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY
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DATE REVISED

LAST REVISION 09-29-11
DATE PLOTTED => 02-OCT-2011
TIME PLOTTED => 20:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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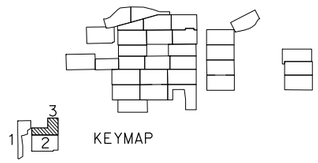
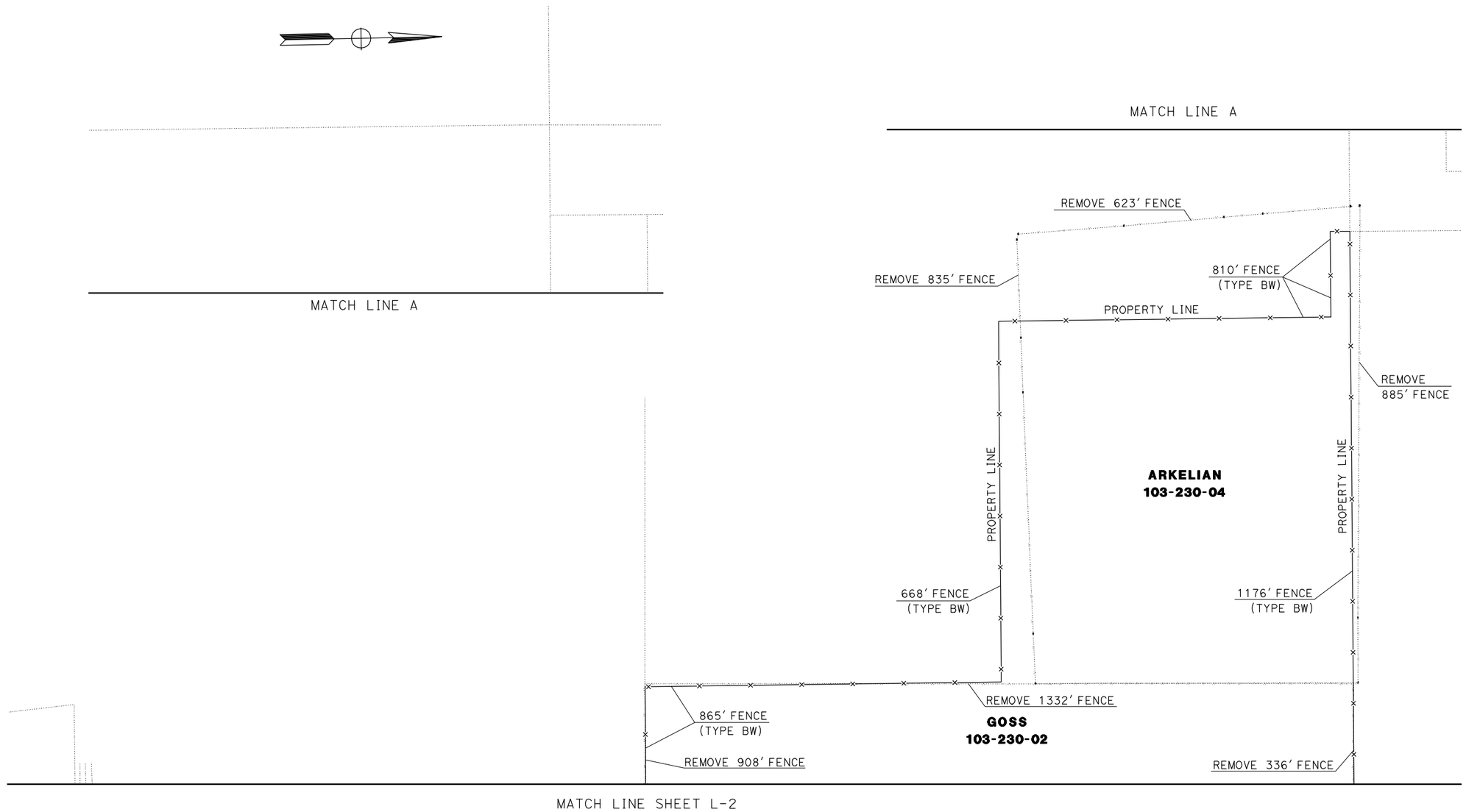


KEYMAP

WILLITS
T18N R13W MDB&M
SEC 21

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT



LAYOUT
SCALE: 1"=100'

L-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
03-DESIGN EAST

FUNCTIONAL SUPERVISOR
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REVISED BY
DATE REVISED

LAST REVISION 09-24-11
DATE PLOTTED => 02-OCT-2011
TIME PLOTTED => 20:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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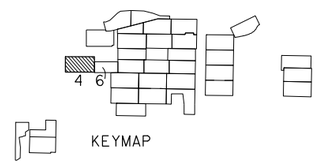
3. LOCATION TO BE DETERMINED BY ENGINEER.

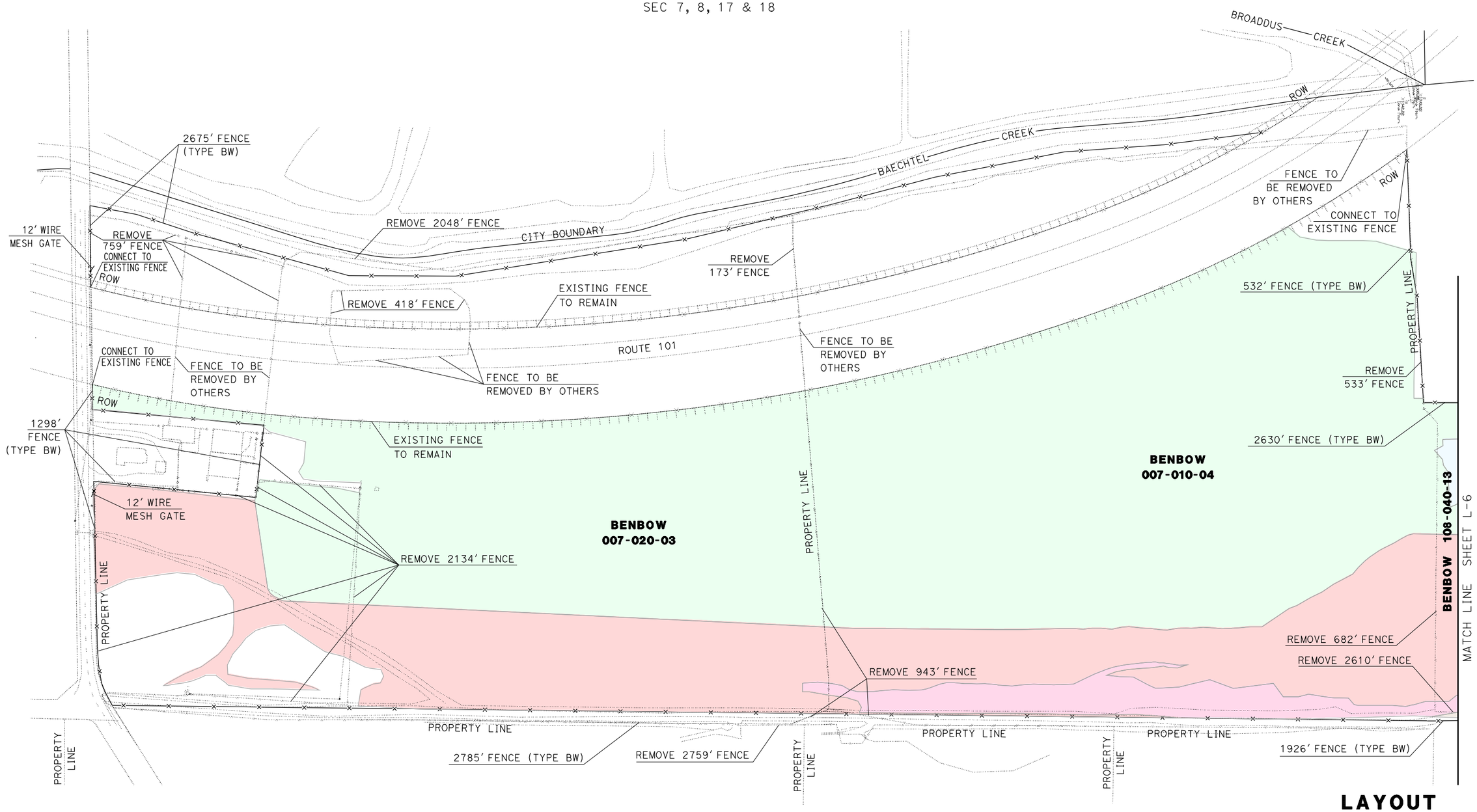


KEYMAP

WILLITS
T18N R13W MDB&M
SEC 7, 8, 17 & 18

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT



LAYOUT
SCALE: 1"=100'

L-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

FUNCTIONAL SUPERVISOR

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LAST REVISION 09-30-11 | DATE PLOTTED => 02-OCT-2011 | TIME PLOTTED => 20:52

NOTES:

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2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
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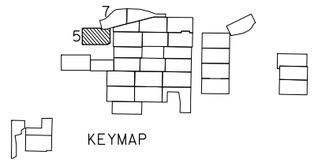

WILLITS
T18N R13W MDB&M
SEC 7

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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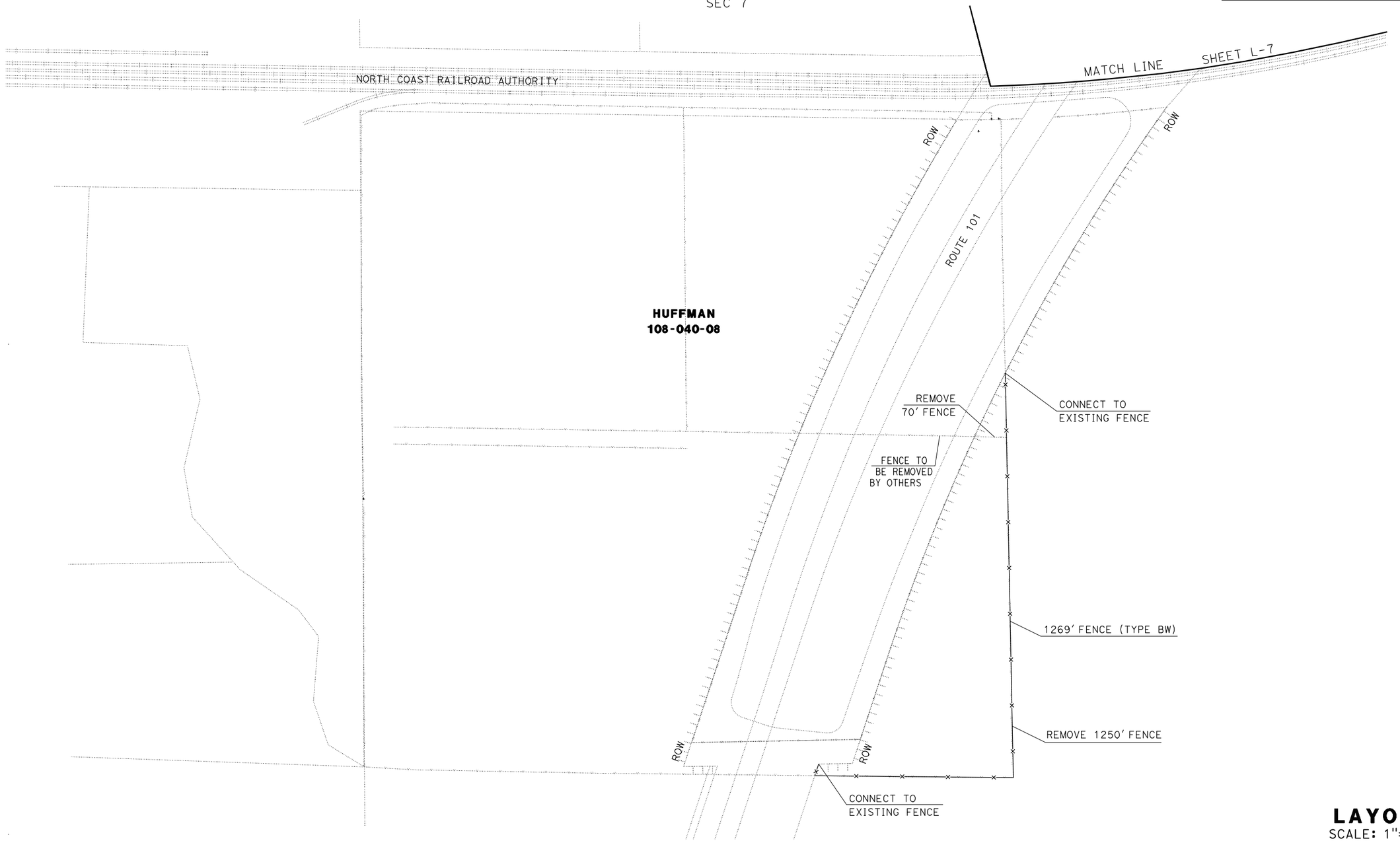

LAYOUT
SCALE: 1"=100'

L-5

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CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 09-24-11 | DATE PLOTTED => 02-OCT-2011 | TIME PLOTTED => 20:52

NOTES:

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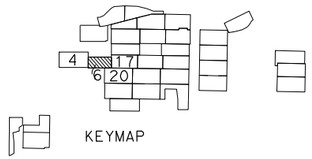

KEYMAP

WILLITS
T18N R13W MDB&M
SEC 7 & 8

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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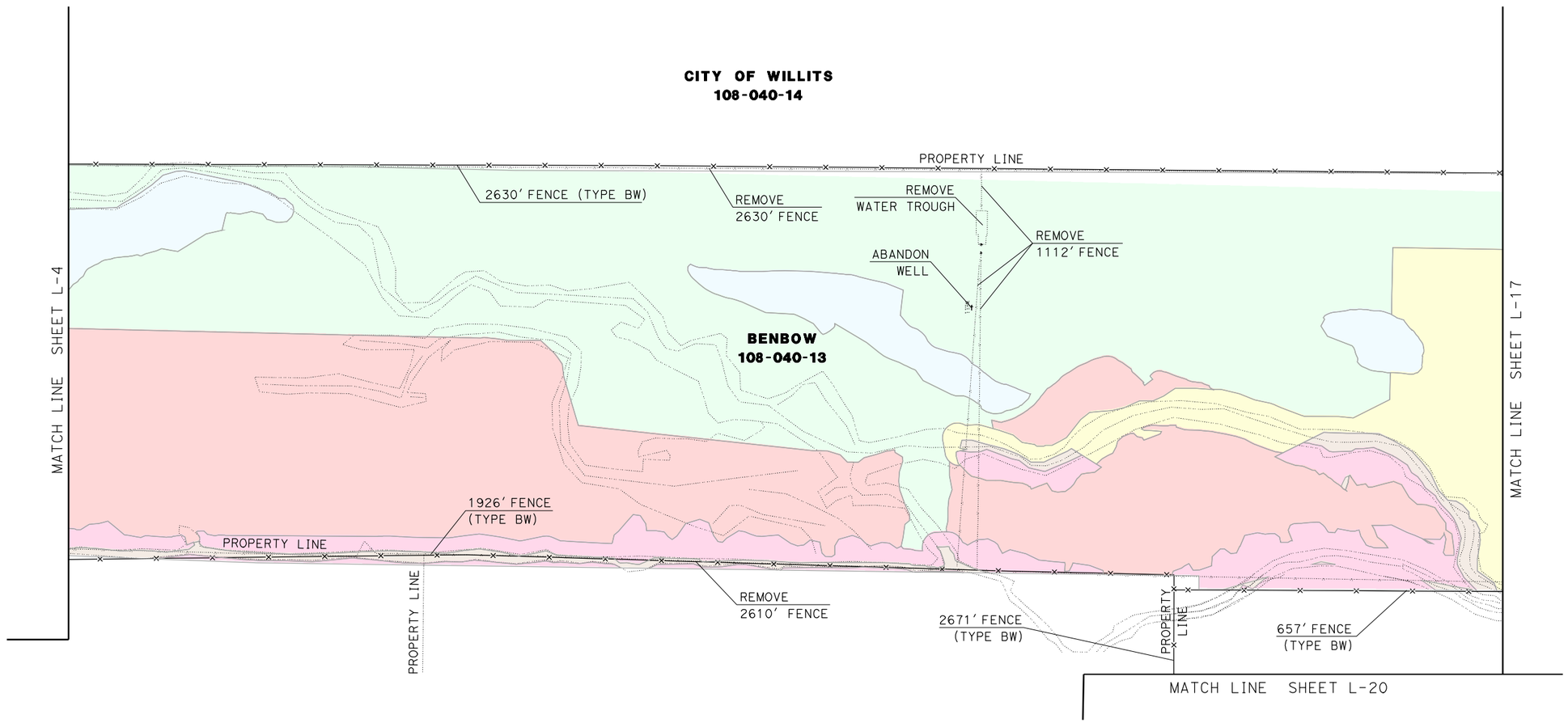

LAYOUT
SCALE: 1"=100'

L-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **03-DESIGN EAST**

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DATE REVISED

LAST REVISION 09-30-11

DATE PLOTTED => 02-OCT-2011
TIME PLOTTED => 20:52

NOTES:

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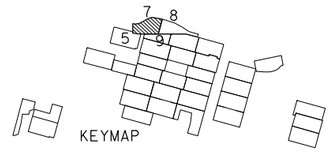
3. LOCATION TO BE DETERMINED BY ENGINEER.



WILLITS
T18N R13 & 14W MDB&M
SEC 7 & 12

USACE MITIGATION ACTIONS (ACRES)

TYPE 1	(0.000)	GROUP 1	(0.000)
TYPE 2	(0.000)	GROUP 2	(0.000)
TYPE 3	(0.000)		
TYPE 4	(0.000)	CREDIT	(0.000)
TYPE 5	(0.000)	NO CREDIT	(0.000)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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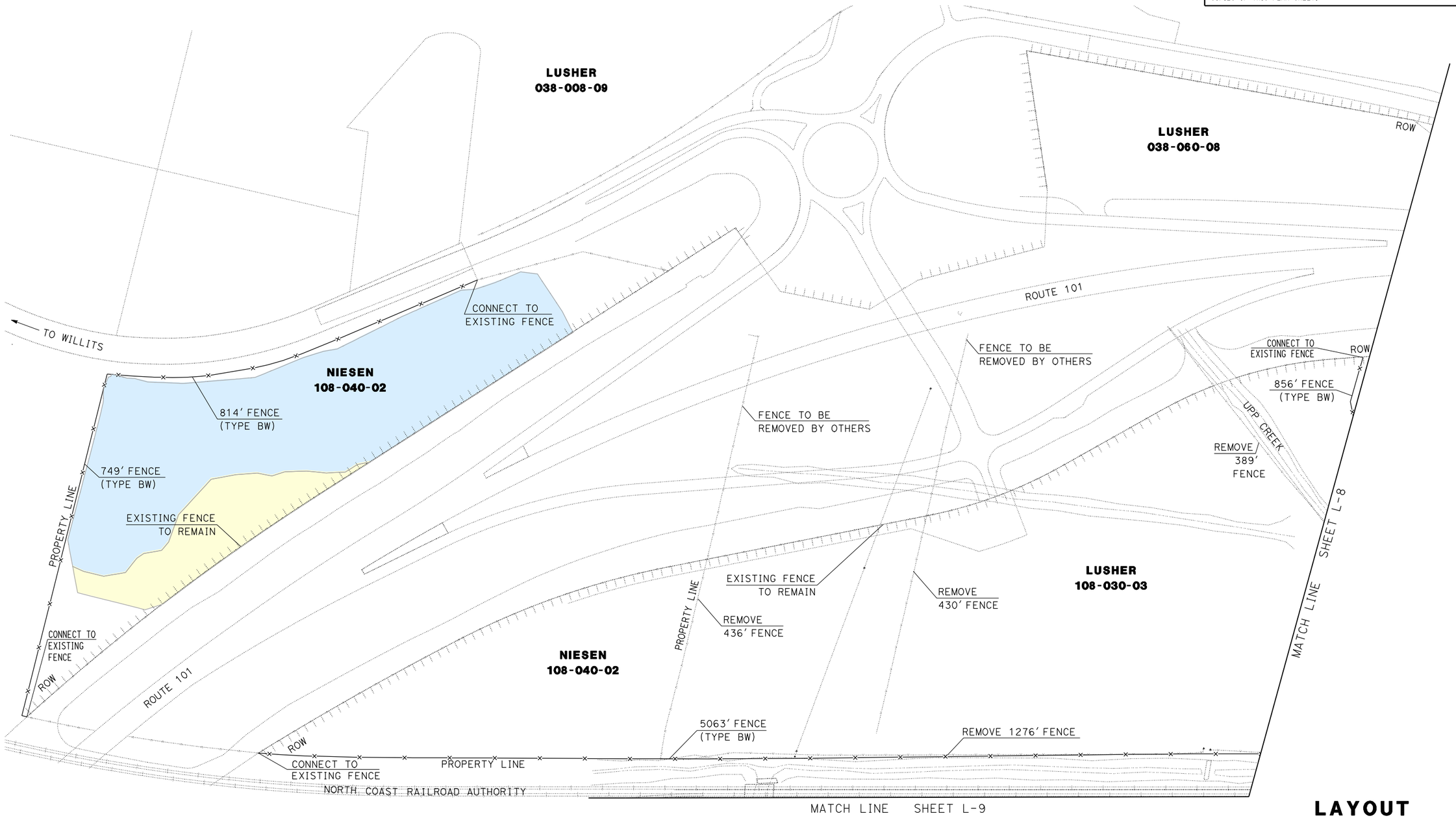

LAYOUT

SCALE: 1"=100'

L-7

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
03-DESIGN EAST

LAST REVISION 09-30-11
DATE PLOTTED => 02-OCT-2011
TIME PLOTTED => 20:53

NOTES:

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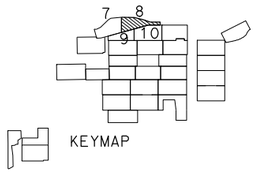

WILLITS
T18N R13 & 14W MDB&M
SEC 7 & 12

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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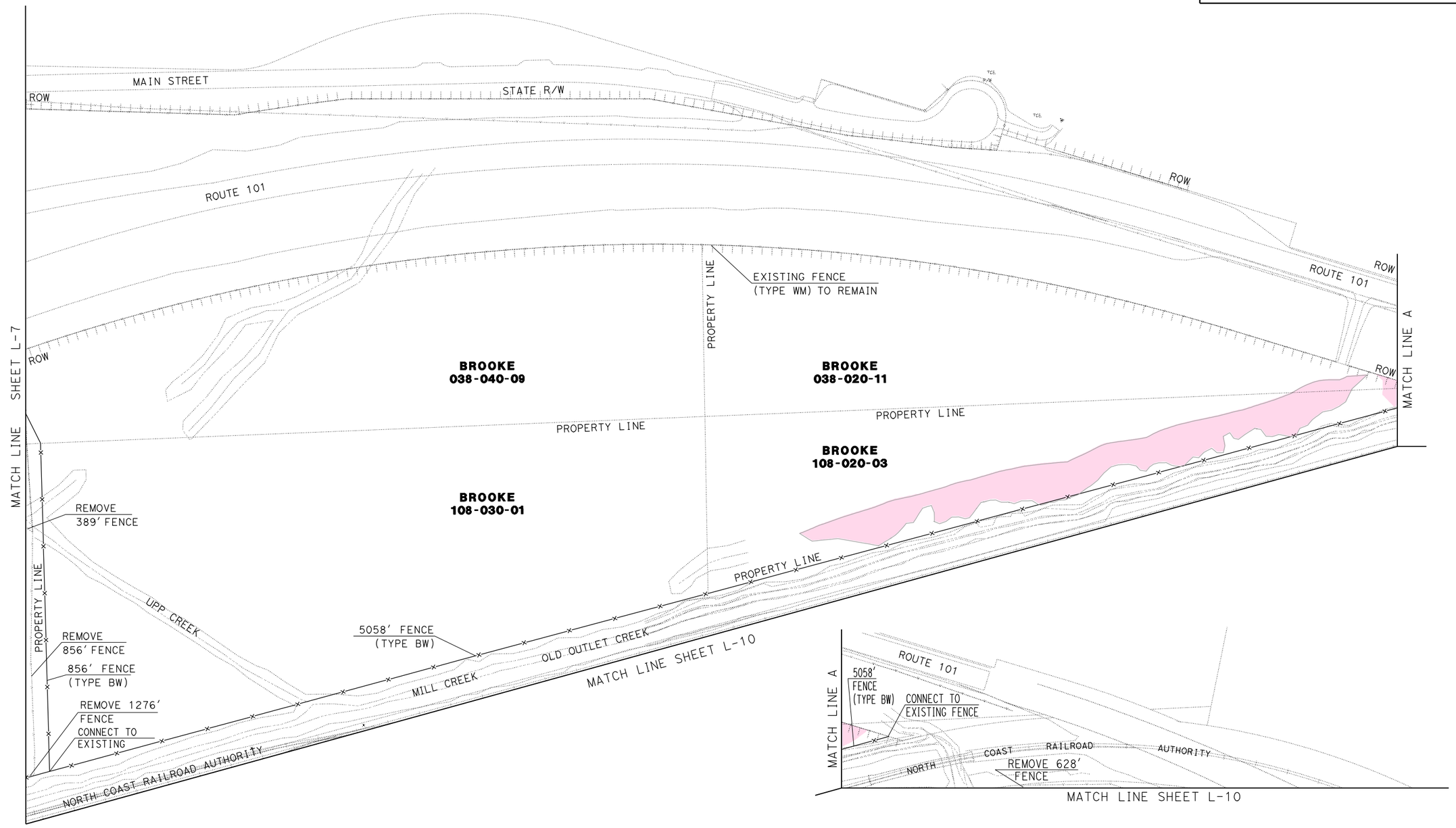

LAYOUT
SCALE: 1"=100'

L-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 03-DESIGN EAST

FUNCTIONAL SUPERVISOR

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REVISED BY
DATE REVISED

LAST REVISION 09-30-11
DATE PLOTTED => 02-OCT-2011
TIME PLOTTED => 20:53

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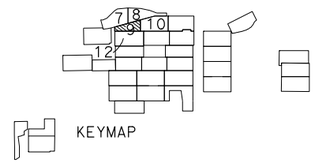

WILLITS
T18N R13 & 14W MDB&M
SEC 1 & 6

USAGE MITIGATION ACTIONS (ACRES)

TYPE 1	(0.000)	GROUP 1	(0.000)
TYPE 2	(0.000)	GROUP 2	(0.000)
TYPE 3	(0.000)		
TYPE 4	(0.000)	CREDIT	(0.000)
TYPE 5	(0.000)	NO CREDIT	(0.000)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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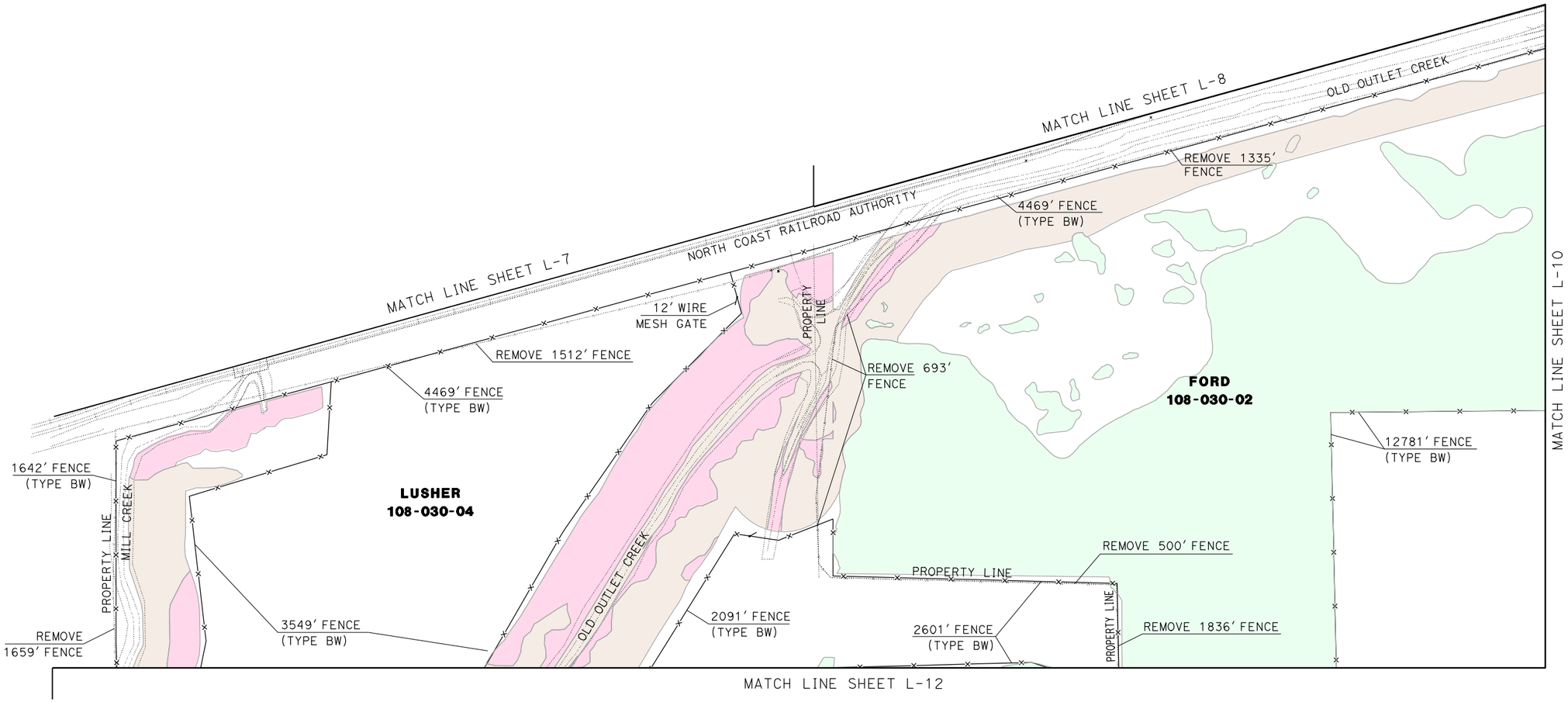

LAYOUT
SCALE: 1"=100'

L-9

REVISED BY | DATE REVISED
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FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

LAST REVISION 09-30-11 | DATE PLOTTED => 02-OCT-2011 | TIME PLOTTED => 20:53

NOTES:

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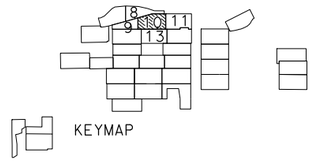

WILLITS
T18N R13 & 14W MDB&M
SEC 1, 6, 7 & 12

USACE MITIGATION ACTIONS (ACRES)

TYPE 1	(0.000)	GROUP 1	(0.000)
TYPE 2	(0.000)	GROUP 2	(0.000)
TYPE 3	(0.000)		
TYPE 4	(0.000)	CREDIT	(0.000)
TYPE 5	(0.000)	NO CREDIT	(0.000)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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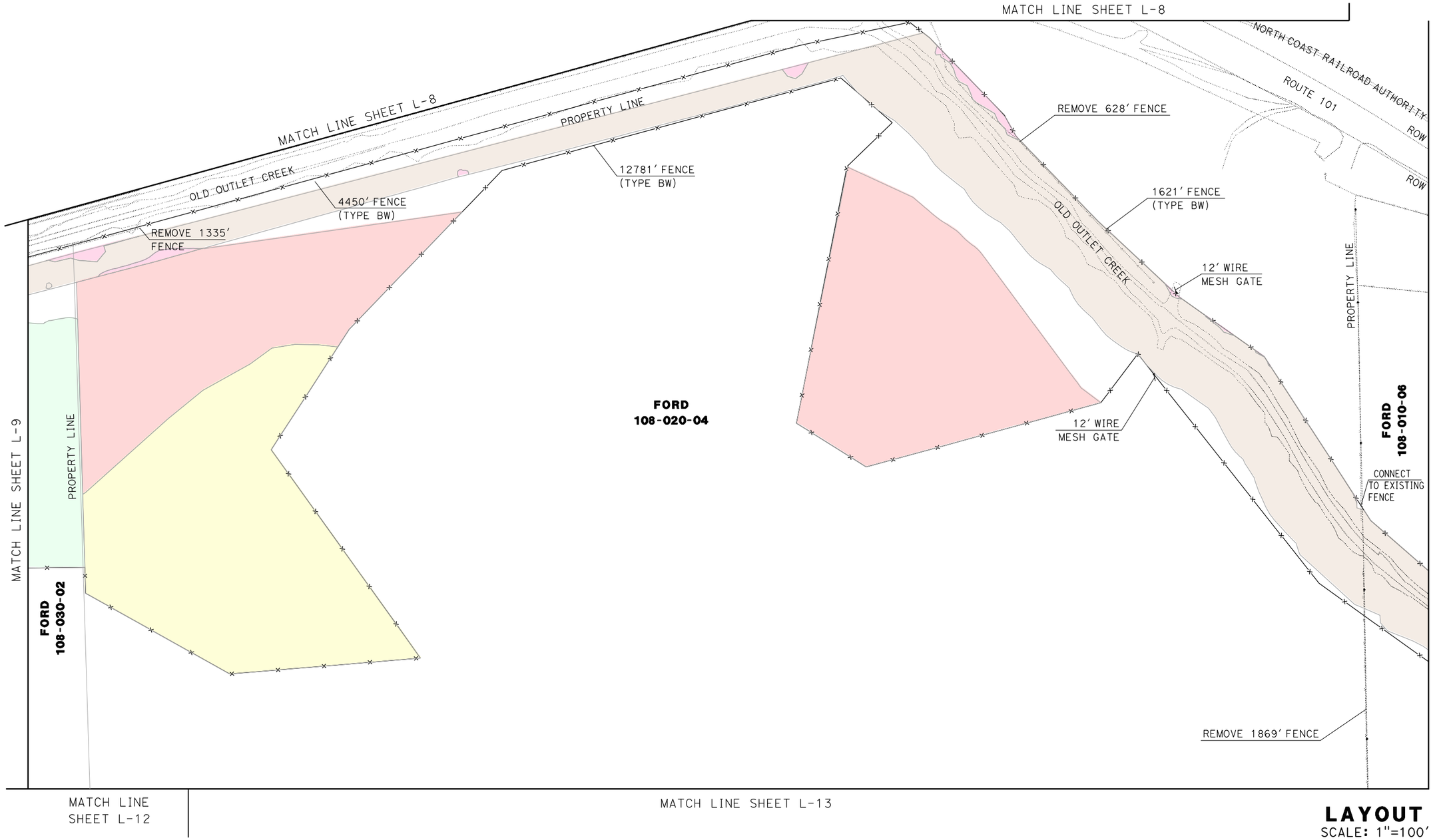

LAYOUT
SCALE: 1"=100'

L-10

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

LAST REVISION 09-30-11 | DATE PLOTTED => 02-OCT-2011 TIME PLOTTED => 20:54

NOTES:

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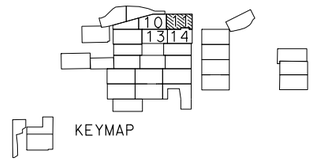
3. LOCATION TO BE DETERMINED BY ENGINEER.



KEYMAP

WILLITS
T18 & 19N R13W MDB&M
SEC 6 & 31

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT

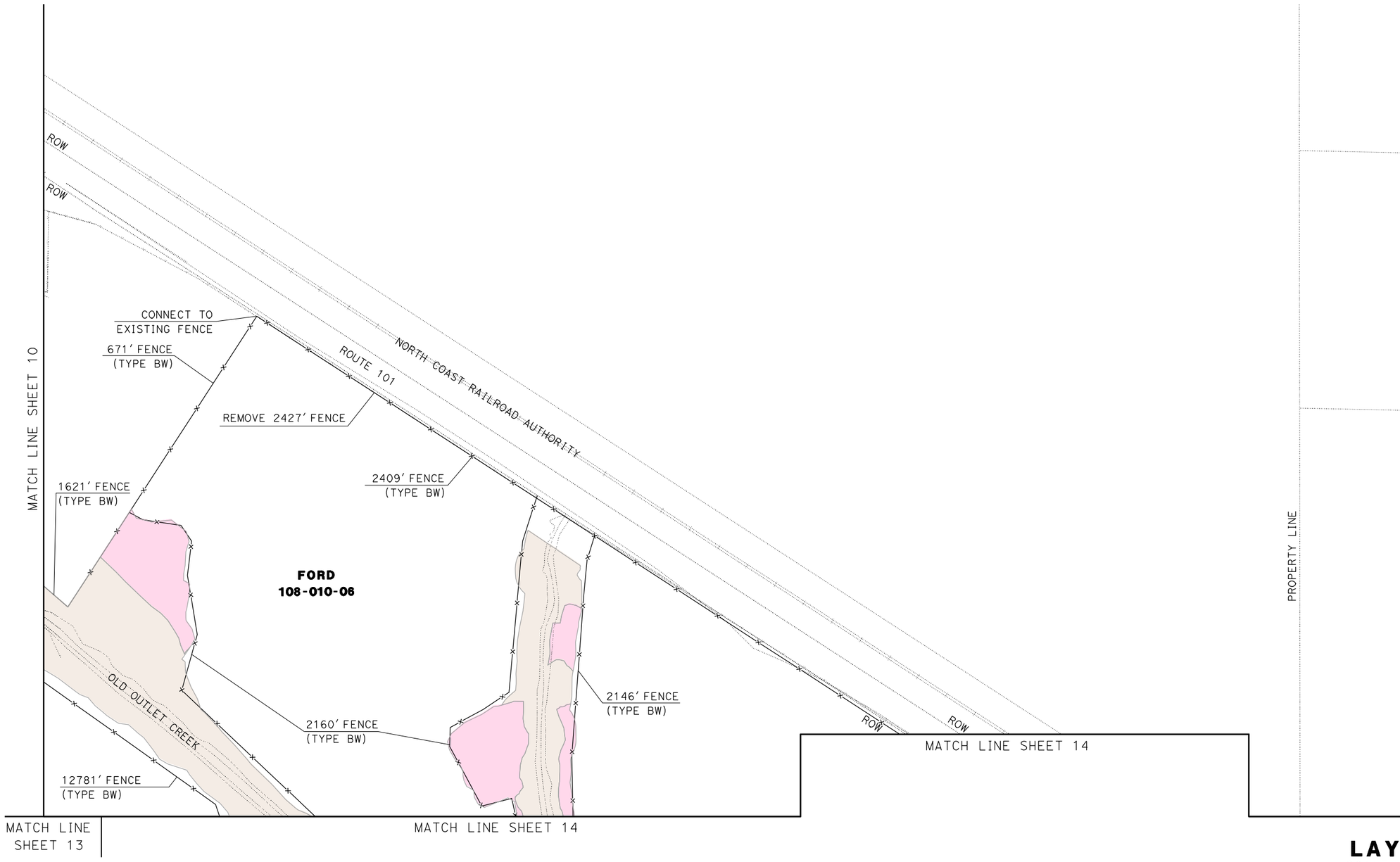
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



LAYOUT
SCALE: 1"=100'

L-11

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

LAST REVISION 09-30-11 | DATE PLOTTED => 02-OCT-2011 | TIME PLOTTED => 20:54

NOTES:

1. FOR COMPLETE PROPERTY BOUNDARY DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
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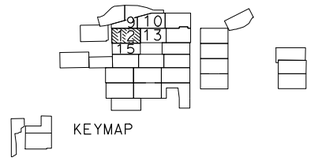
3. LOCATION TO BE DETERMINED BY ENGINEER.



WILLITS
T18N R13W MDB&M
SEC 6 & 7

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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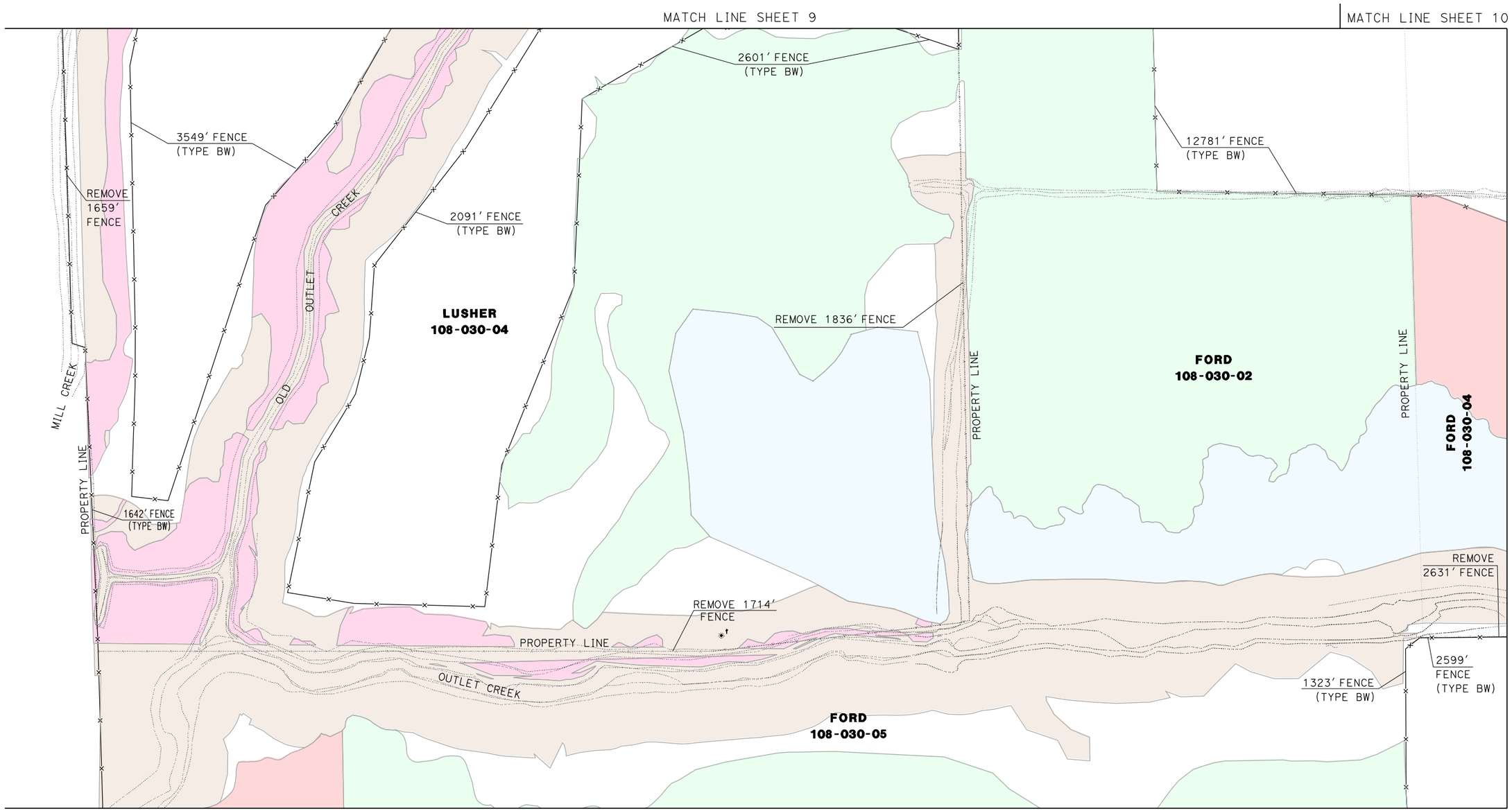

LAYOUT

SCALE: 1"=100'

L-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY

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DATE REVISED

LAST REVISION 09-30-11

DATE PLOTTED => 02-OCT-2011
TIME PLOTTED => 20:54

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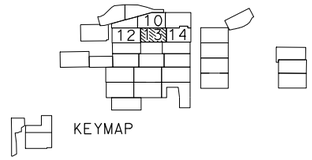

WILLITS
T18N R13W MDB&M
SEC 6

USACE MITIGATION ACTIONS (ACRES)

TYPE 1	(0.000)	GROUP 1	(0.000)
TYPE 2	(0.000)	GROUP 2	(0.000)
TYPE 3	(0.000)		
TYPE 4	(0.000)	CREDIT	(0.000)
TYPE 5	(0.000)	NO CREDIT	(0.000)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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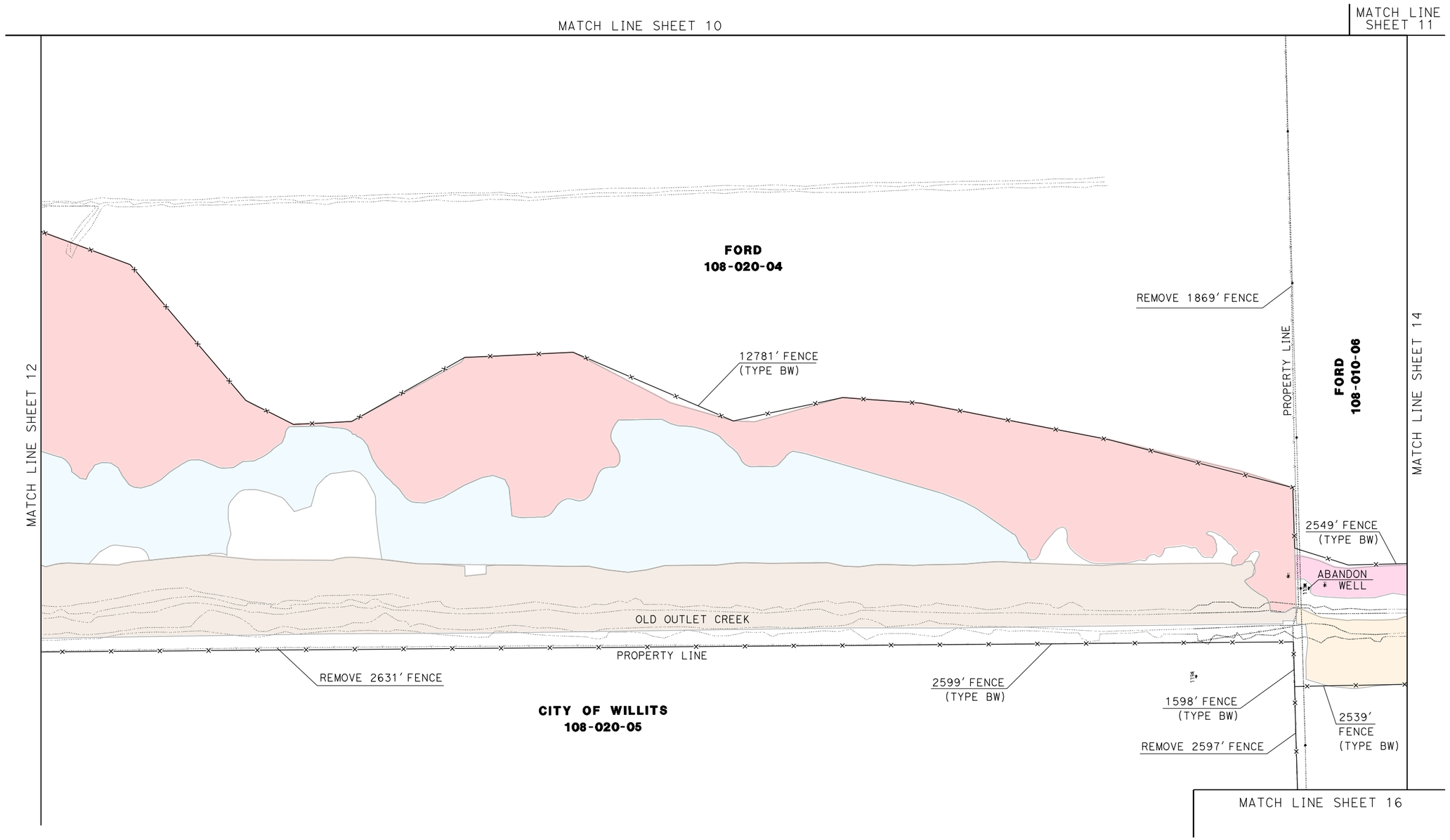

LAYOUT
SCALE: 1"=100'

L-13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY

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DATE REVISED

LAST REVISION 09-25-11

DATE PLOTTED => 02-OCT-2011
TIME PLOTTED => 20:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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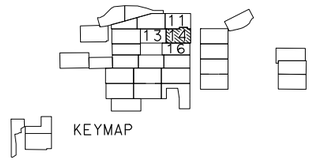
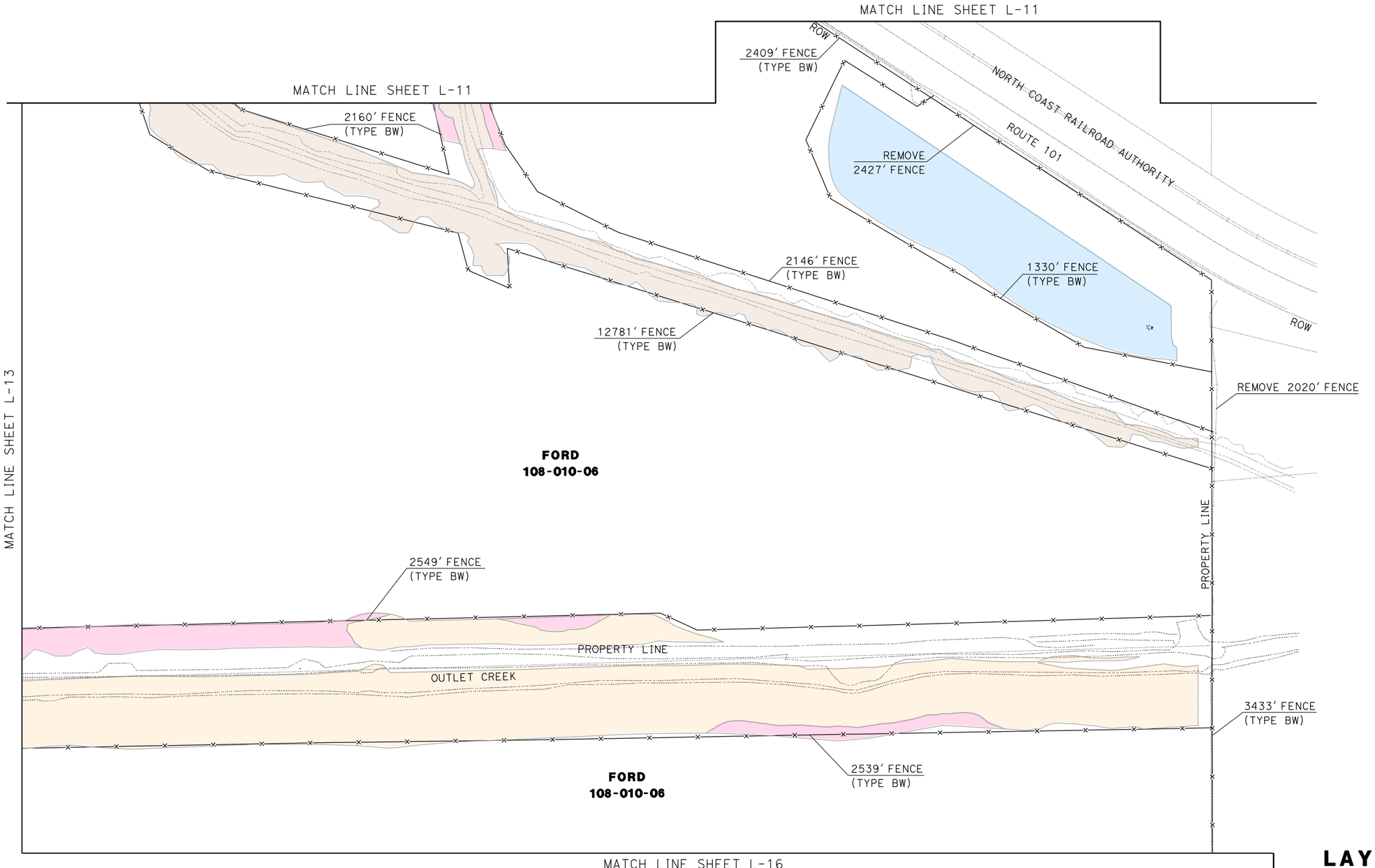


WILLITS
T18 & 19N R13W MDB&M
SEC 6 & 31

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT



LAYOUT
SCALE: 1"=100'

L-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY

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DATE REVISED

LAST REVISION 10-01-11

DATE PLOTTED => 02-OCT-2011
TIME PLOTTED => 20:55

NOTES:

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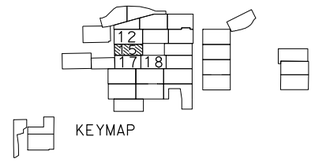

WILLITS
T18N R13W MDB&M
SEC 6 & 7

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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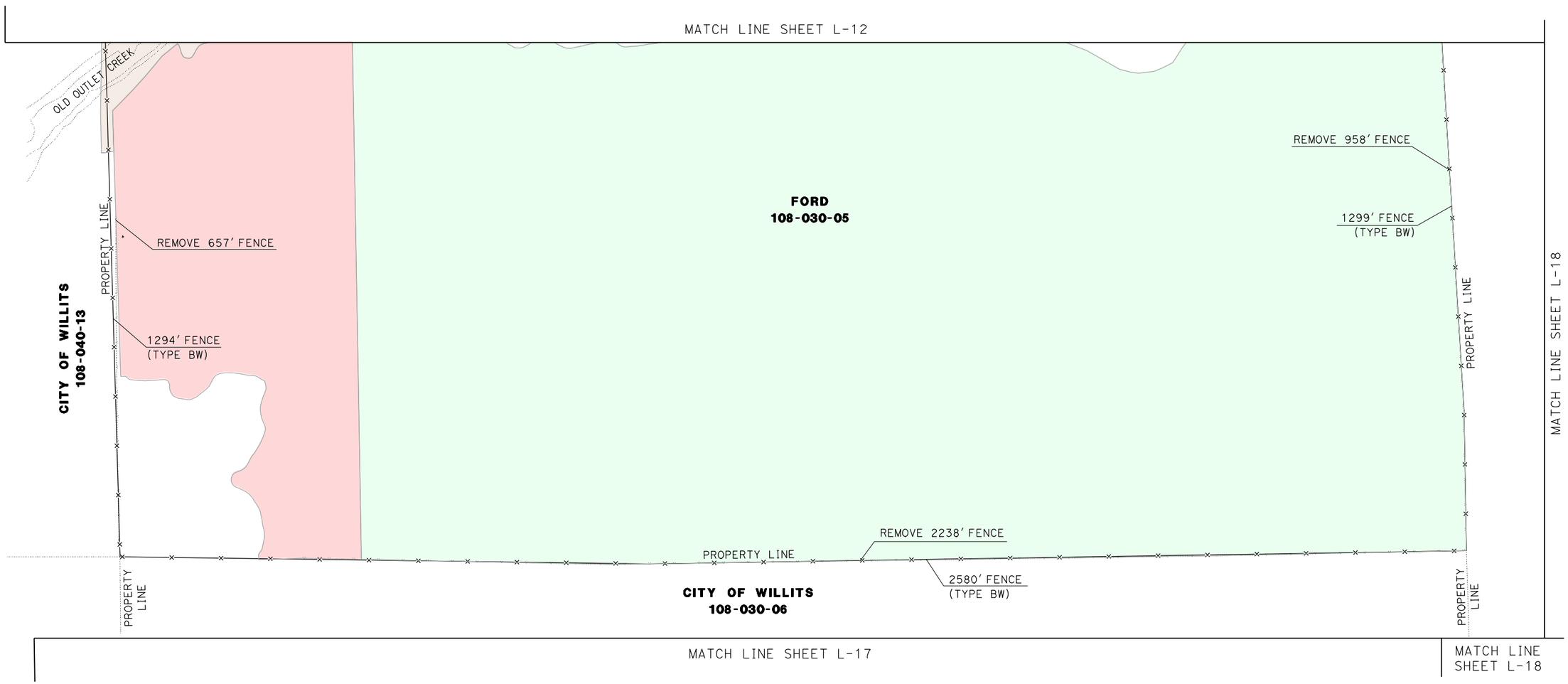

LAYOUT
SCALE: 1"=100'

L-15

REVISED BY	DATE REVISED

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FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

LAST REVISION 10-01-11
DATE PLOTTED => 02-OCT-2011
TIME PLOTTED => 20:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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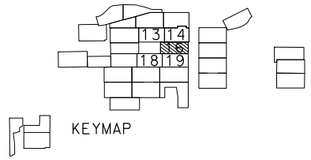
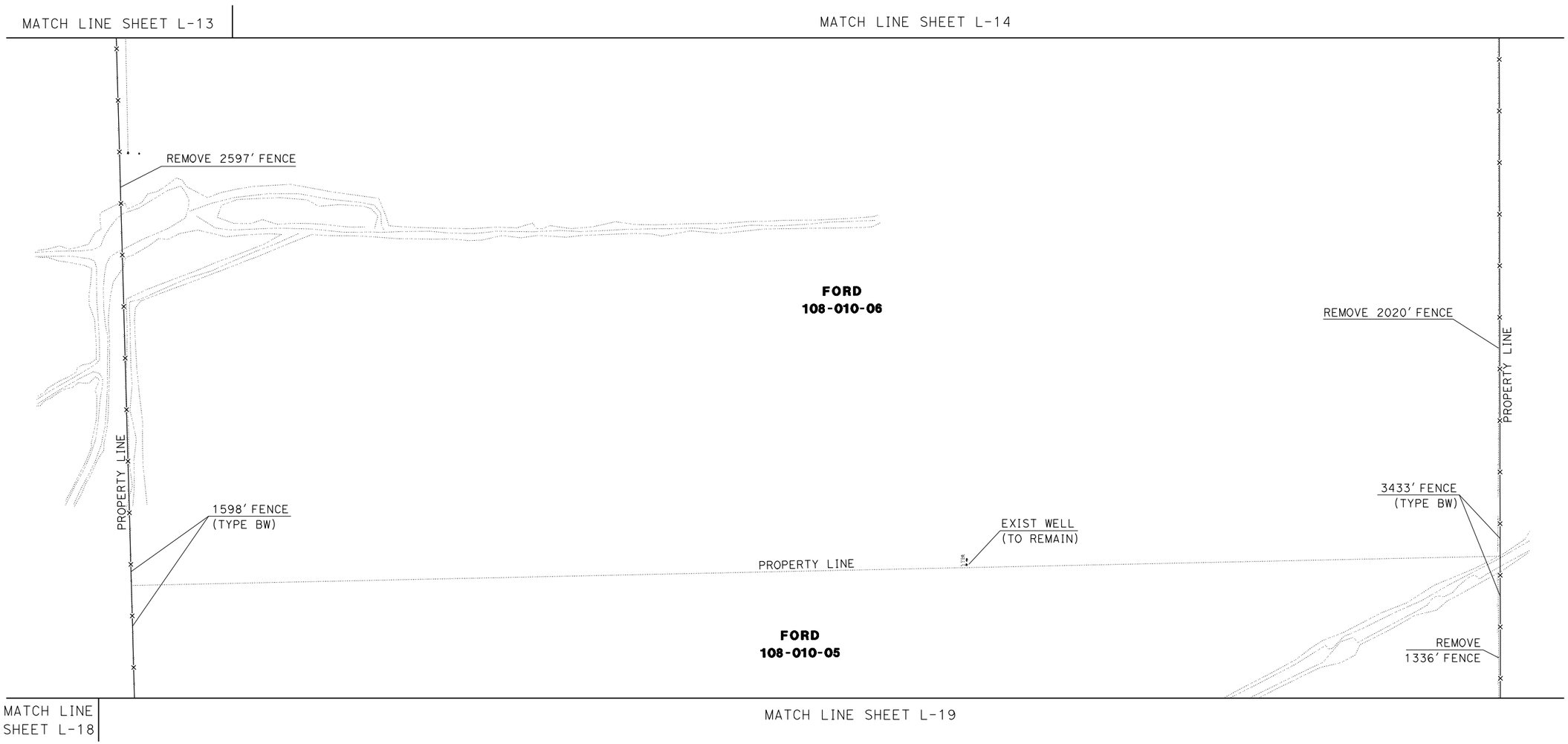


KEYMAP

WILLITS
T18N R13W MDB&M
SEC 6

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT



LAYOUT
SCALE: 1"=100'

L-16

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

03-DESIGN EAST

LAST REVISION 10-01-11 | DATE PLOTTED => 02-OCT-2011 | TIME PLOTTED => 20:56

NOTES:

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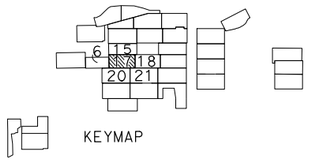

KEYMAP

WILLITS
T18N R13W MDB&M
SEC 7 & 8

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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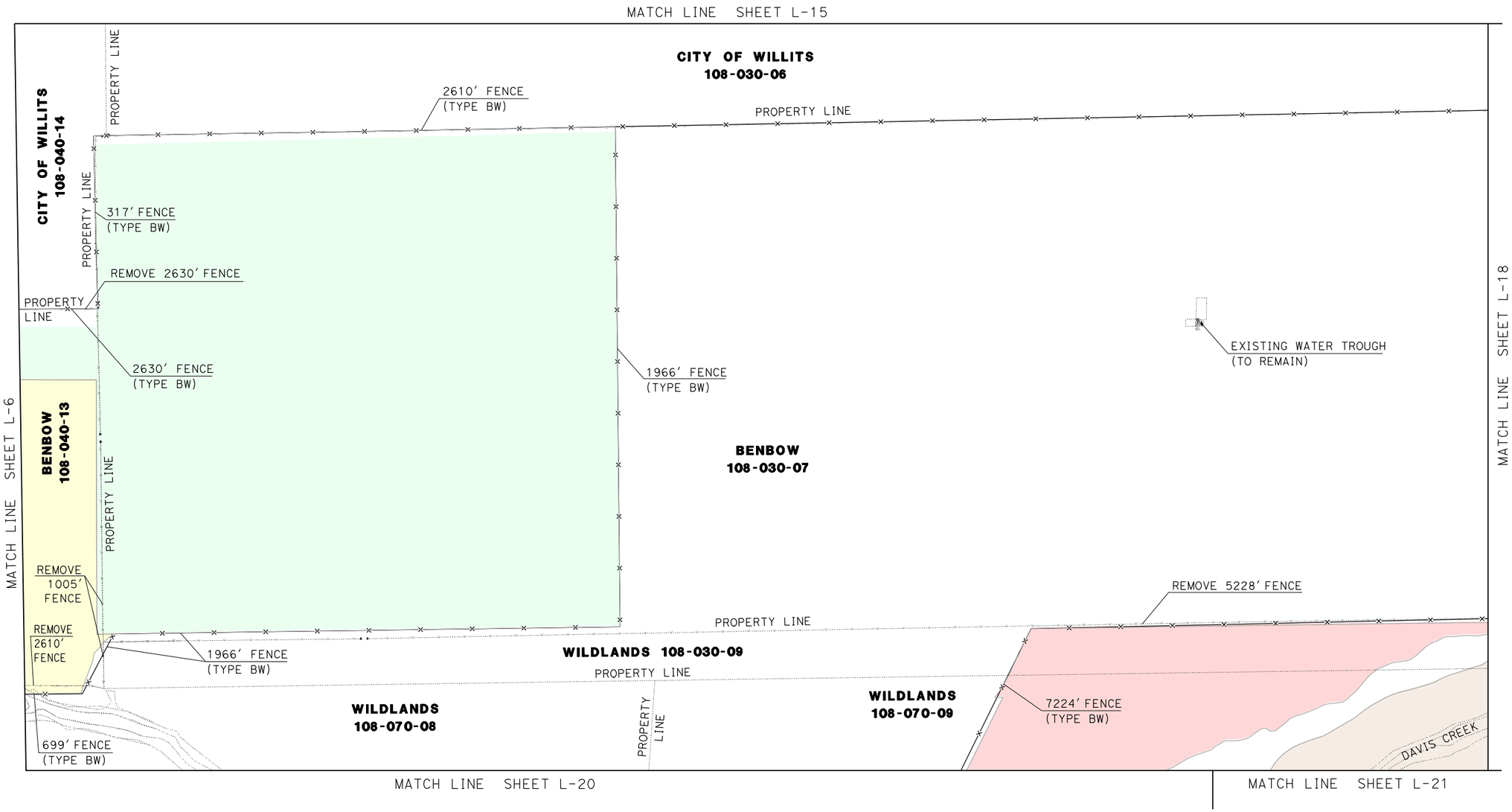

LAYOUT
SCALE: 1"=100'

L-17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY

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REVISED BY

DATE REVISED

LAST REVISION 09-26-11

DATE PLOTTED => 02-OCT-2011
TIME PLOTTED => 20:56

NOTES:

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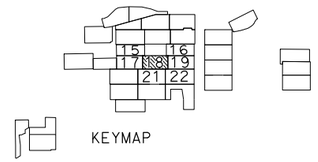

WILLITS
T18N R13W MDB&M
SEC 5, 6 & 7

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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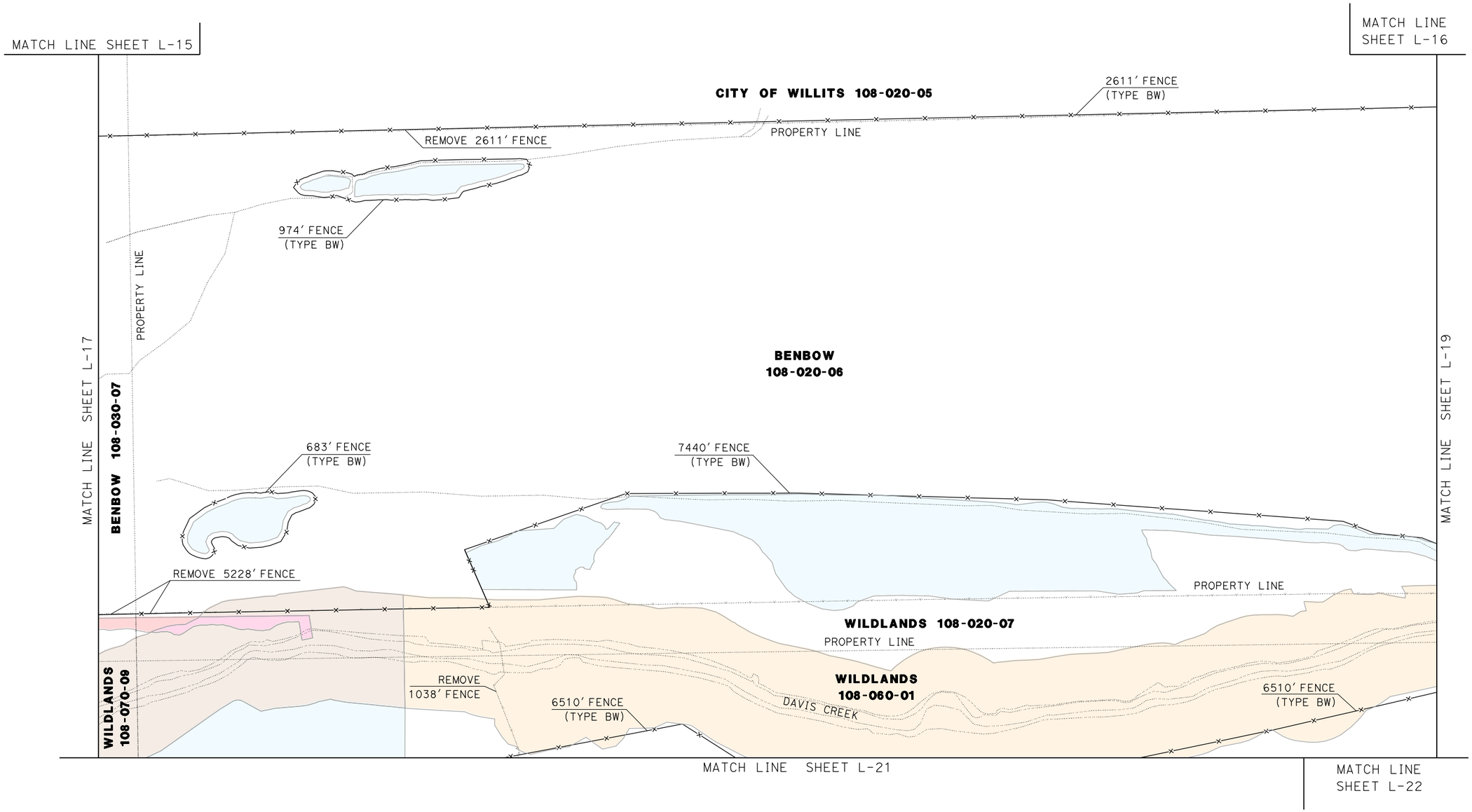

LAYOUT
SCALE: 1"=100'

L-18

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY | CHECKED BY

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LAST REVISION 09-26-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 08:03

NOTES:

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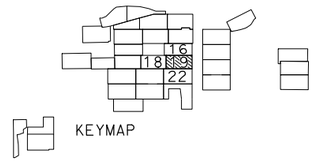

WILLITS
T18 & 19N R13W MDB&M
SEC 5, 6, 31 & 32

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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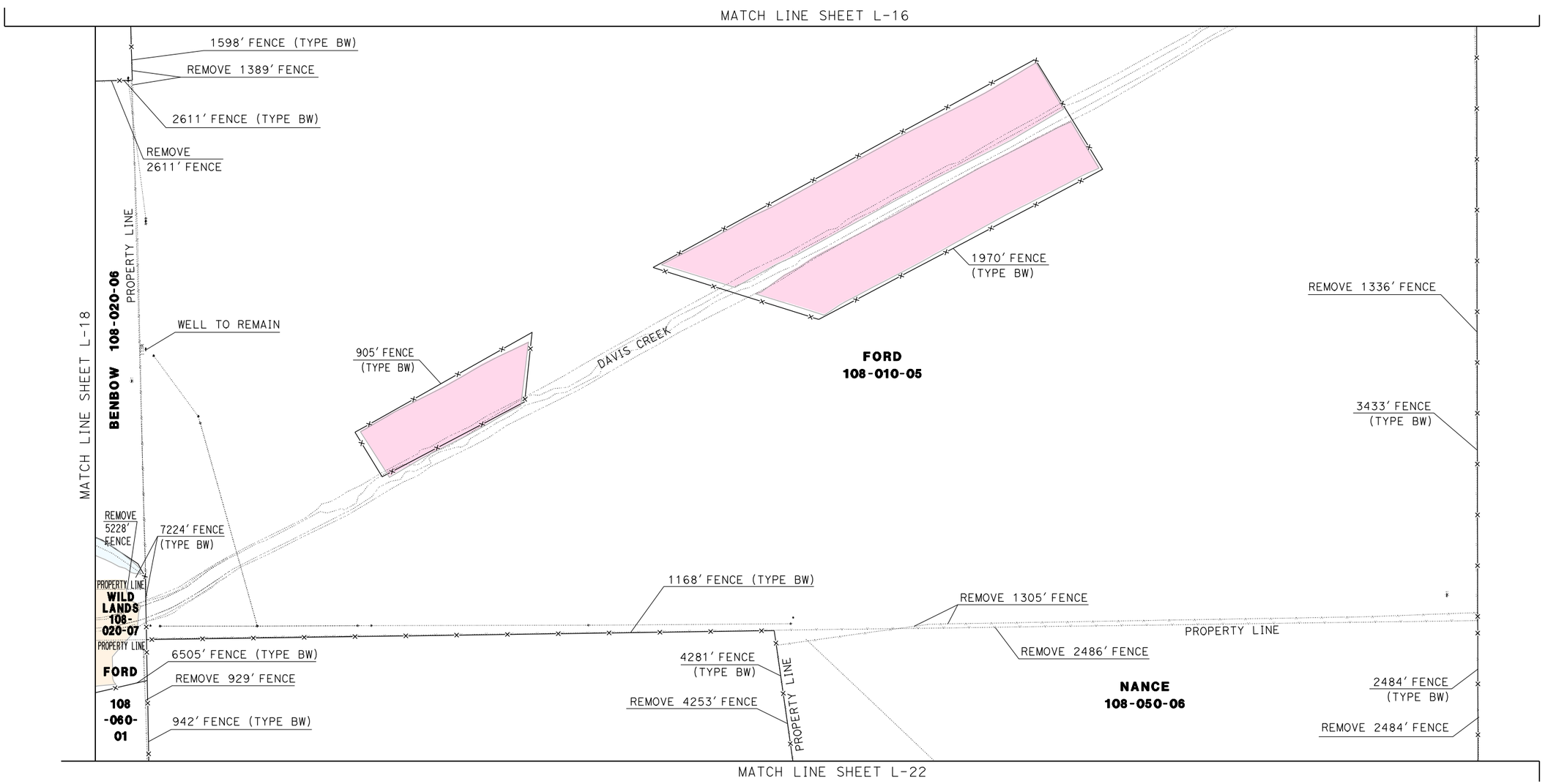

LAYOUT
SCALE: 1"=100'

L-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
03-DESIGN EAST

FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY
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REVISED BY
DATE REVISED

LAST REVISION 09-26-11
DATE PLOTTED => 02-OCT-2011
TIME PLOTTED => 20:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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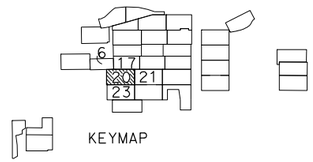
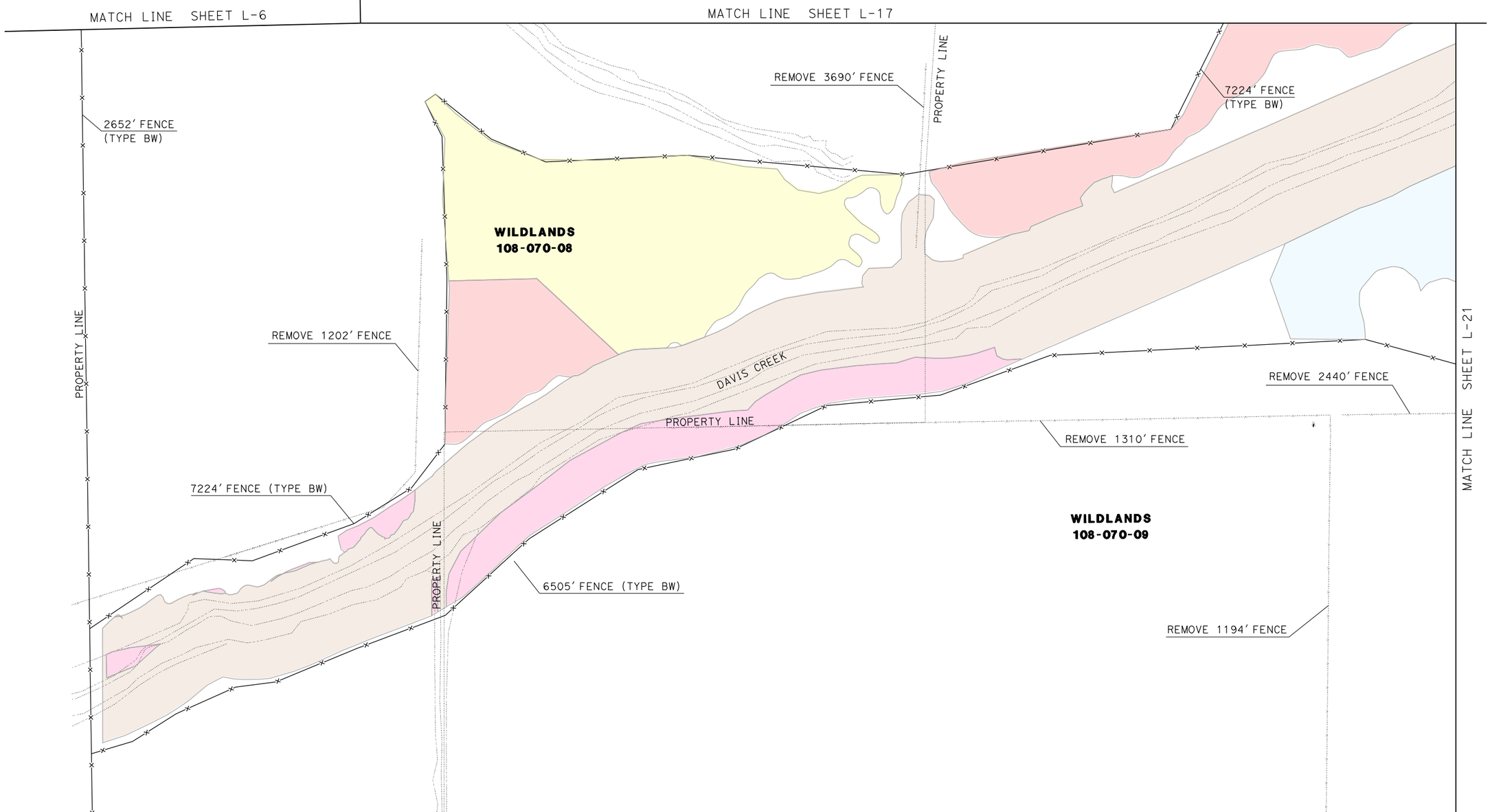


WILLITS
T18N R13W MDB&M
SEC 8

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT



LAYOUT
SCALE: 1"=100'

L-20

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

FUNCTIONAL SUPERVISOR
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 09-26-11
DATE PLOTTED => 02-OCT-2011
TIME PLOTTED => 20:57

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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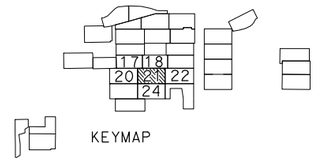

WILLITS
T18N R13W MDB&M
SEC 5 & 8

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT

MATCH LINE SHEET L-17

MATCH LINE SHEET L-18

6510' FENCE (TYPE BW)

DAVIS CREEK

REMOVE 1038' FENCE

6510' FENCE (TYPE BW)

WILDLANDS
108-060-01

WILDLANDS
108-070-09

PROPERTY LINE

REMOVE 939' FENCE

PROPERTY LINE

REMOVE 2440' FENCE

MATCH LINE SHEET L-20

MATCH LINE SHEET L-22

WILDLANDS
108-060-02

REMOVE 1188' FENCE

MATCH LINE SHEET L-24

LAYOUT
SCALE: 1"=100'

L-21

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

03-DESIGN EAST

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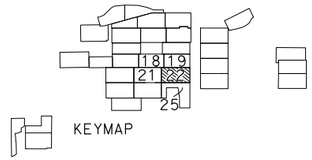

WILLITS
T18 & 19N R13W MDB&M
SEC 5 & 32

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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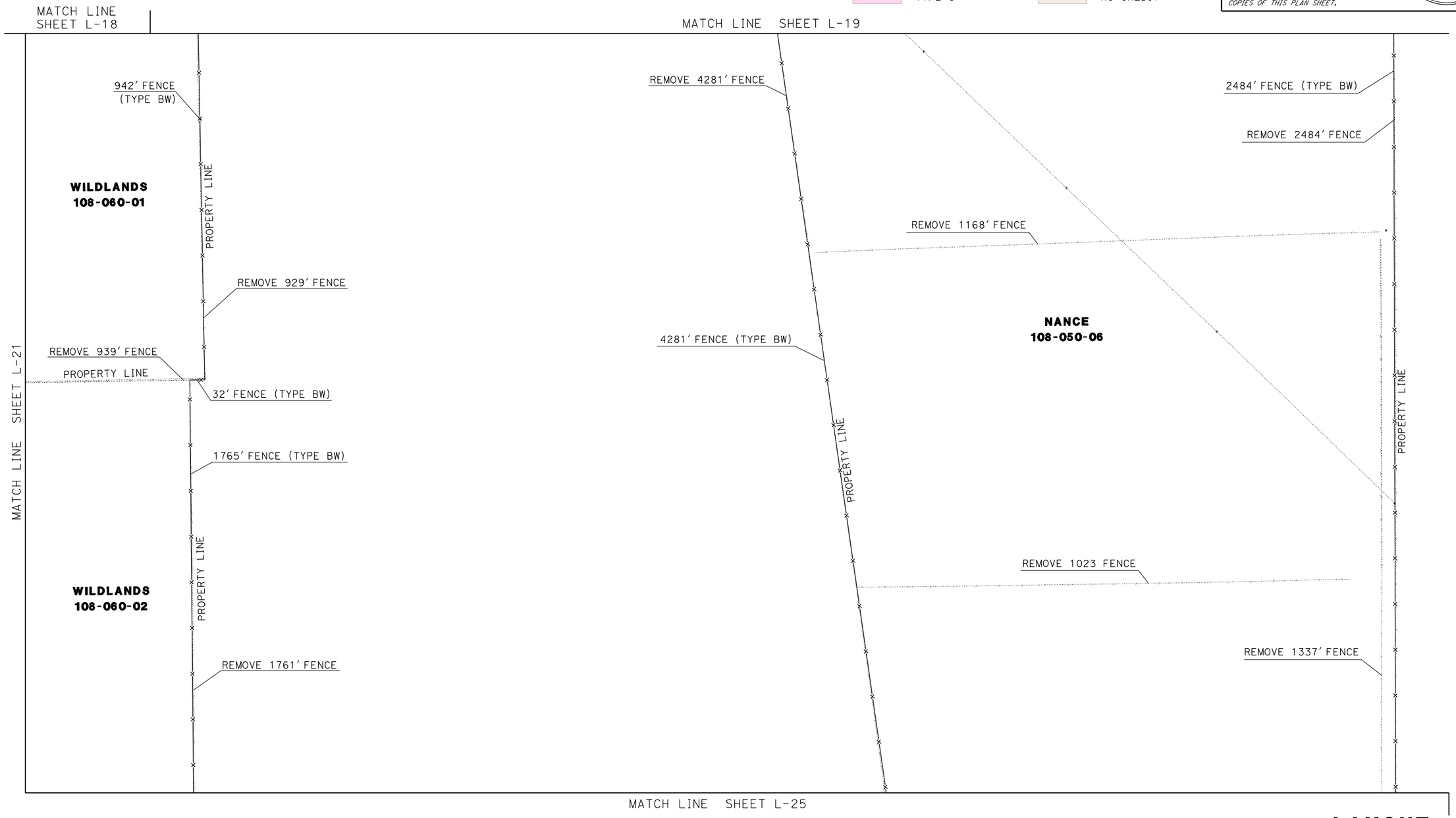

LAYOUT
SCALE: 1"=100'

L-22

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR

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LAST REVISION 09-26-11 | DATE PLOTTED => 02-OCT-2011 | TIME PLOTTED => 20:57

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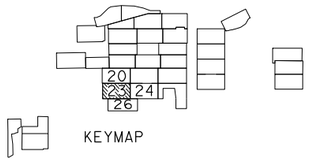

KEYMAP

WILLITS
T18N R13W MDB&M
SEC 5 & 8

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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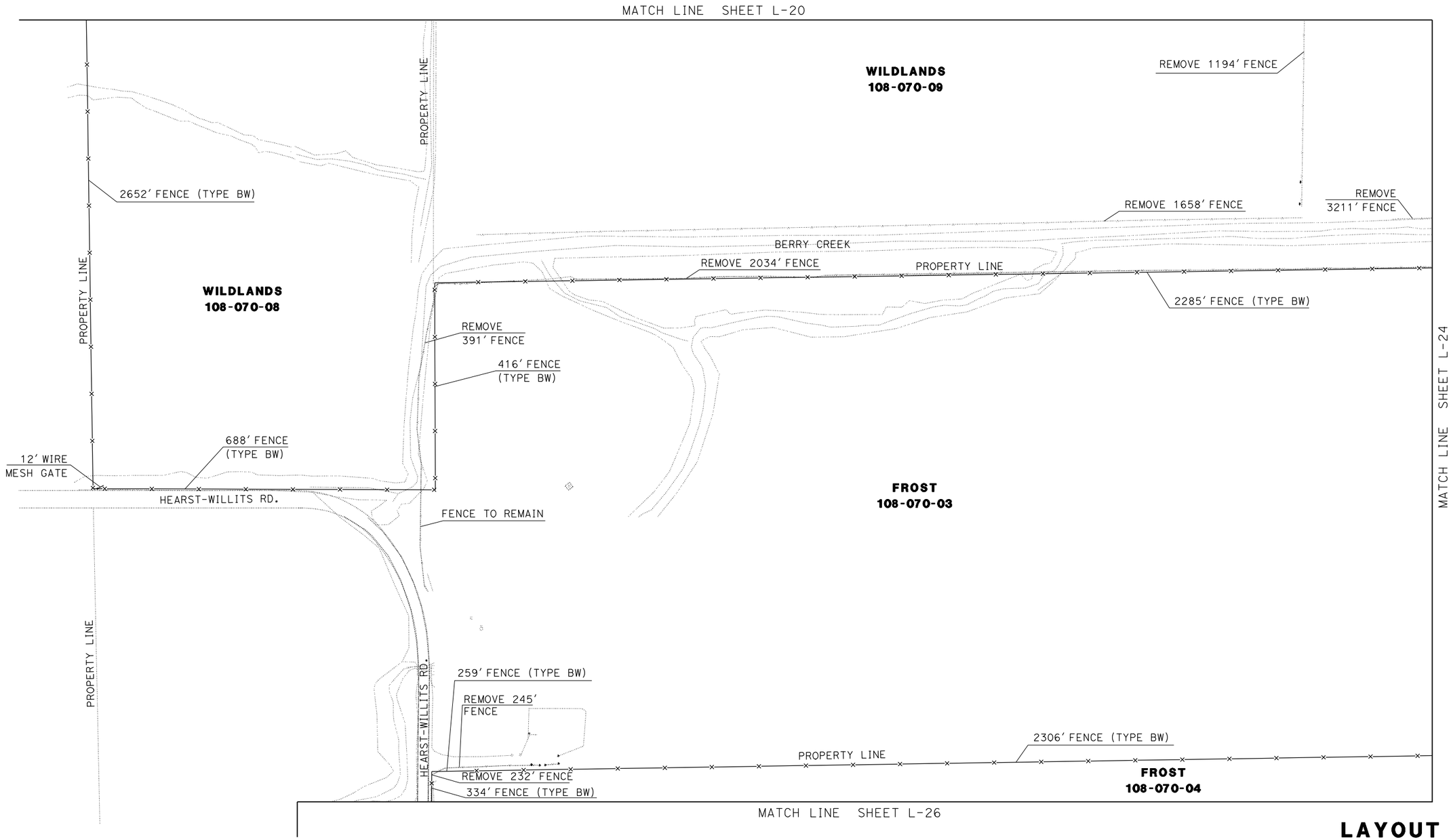

LAYOUT
SCALE: 1"=100'

L-23

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 03-DESIGN EAST

FUNCTIONAL SUPERVISOR
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 10-01-11
DATE PLOTTED => 02-OCT-2011
TIME PLOTTED => 20:58

BORDER LAST REVISED 7/1/2010
USERNAME => s114430
DGN FILE => Layout23.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0307
PROJECT NUMBER & PHASE 01000000054

NOTES:

1. FOR COMPLETE PROPERTY BOUNDARY DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
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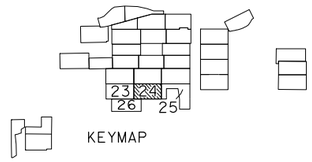
3. LOCATION TO BE DETERMINED BY ENGINEER.



KEYMAP

WILLITS
T18N R13W MDB&M
SEC 5 & 8

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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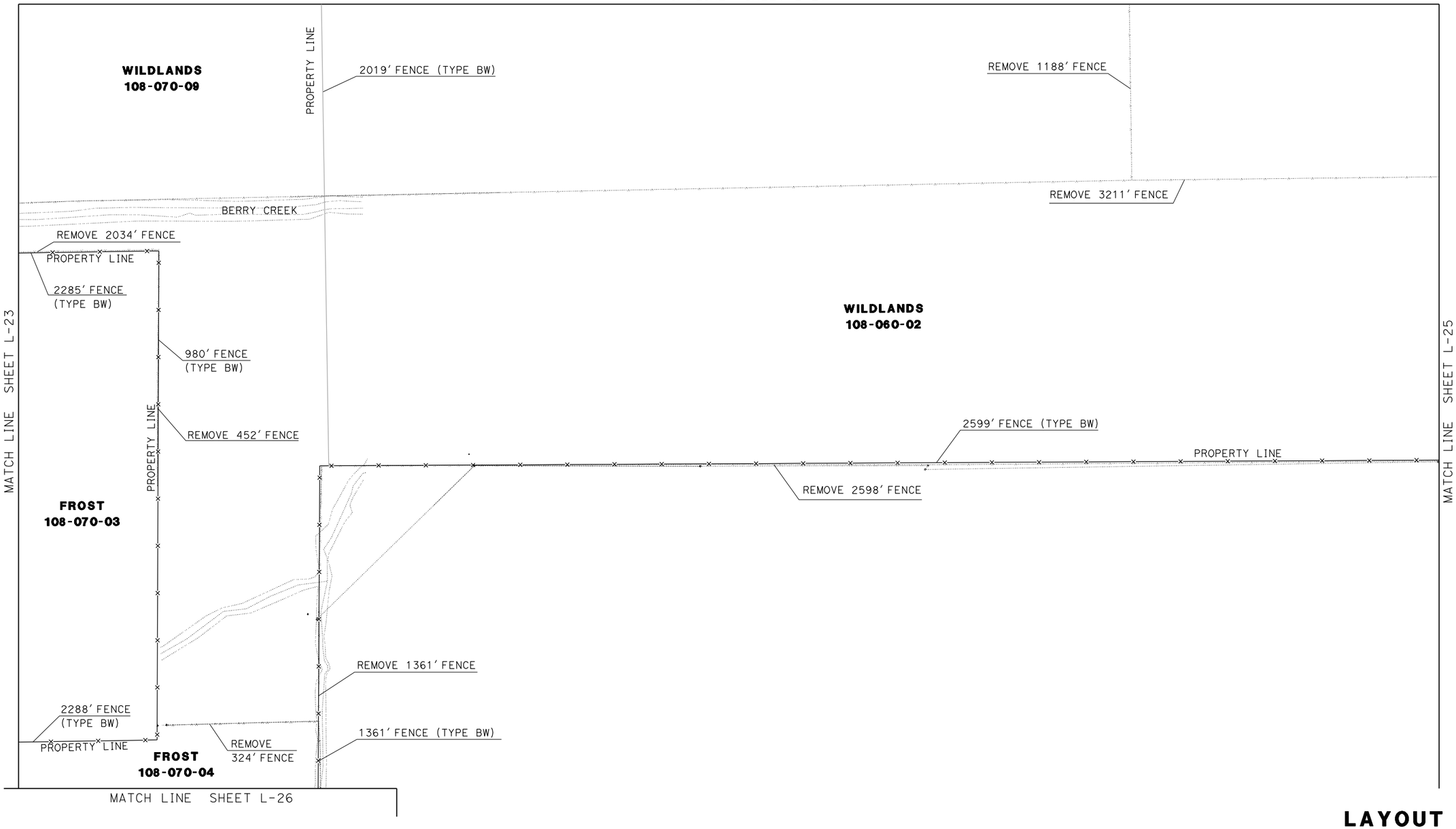

LAYOUT
SCALE: 1"=100'

L-24

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

LAST REVISION 10-01-11
DATE PLOTTED => 02-OCT-2011
TIME PLOTTED => 20:58

NOTES:

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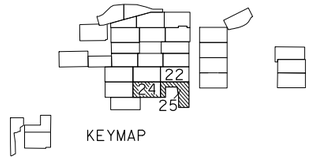

KEYMAP

WILLITS
T18 & 19N R13W MDB&M
SEC 5 & 32

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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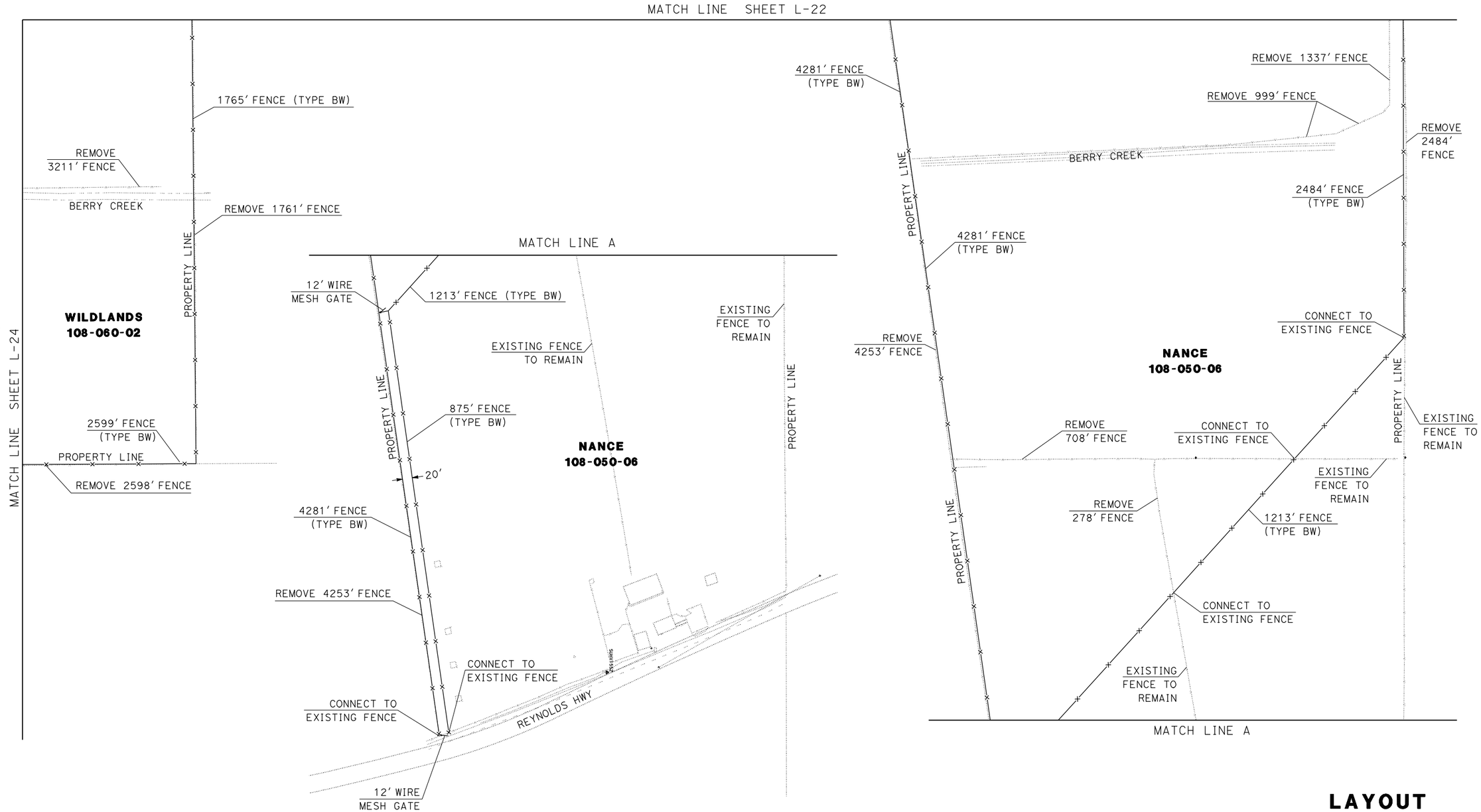

LAYOUT
SCALE: 1"=100'

L-25

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

FUNCTIONAL SUPERVISOR | CALCULATED-DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 10-01-11 | DATE PLOTTED => 02-OCT-2011 | TIME PLOTTED => 20:58

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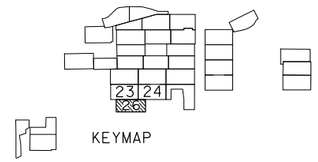

KEYMAP

WILLITS
T18N R13W MDB&M
SEC 5 & 8

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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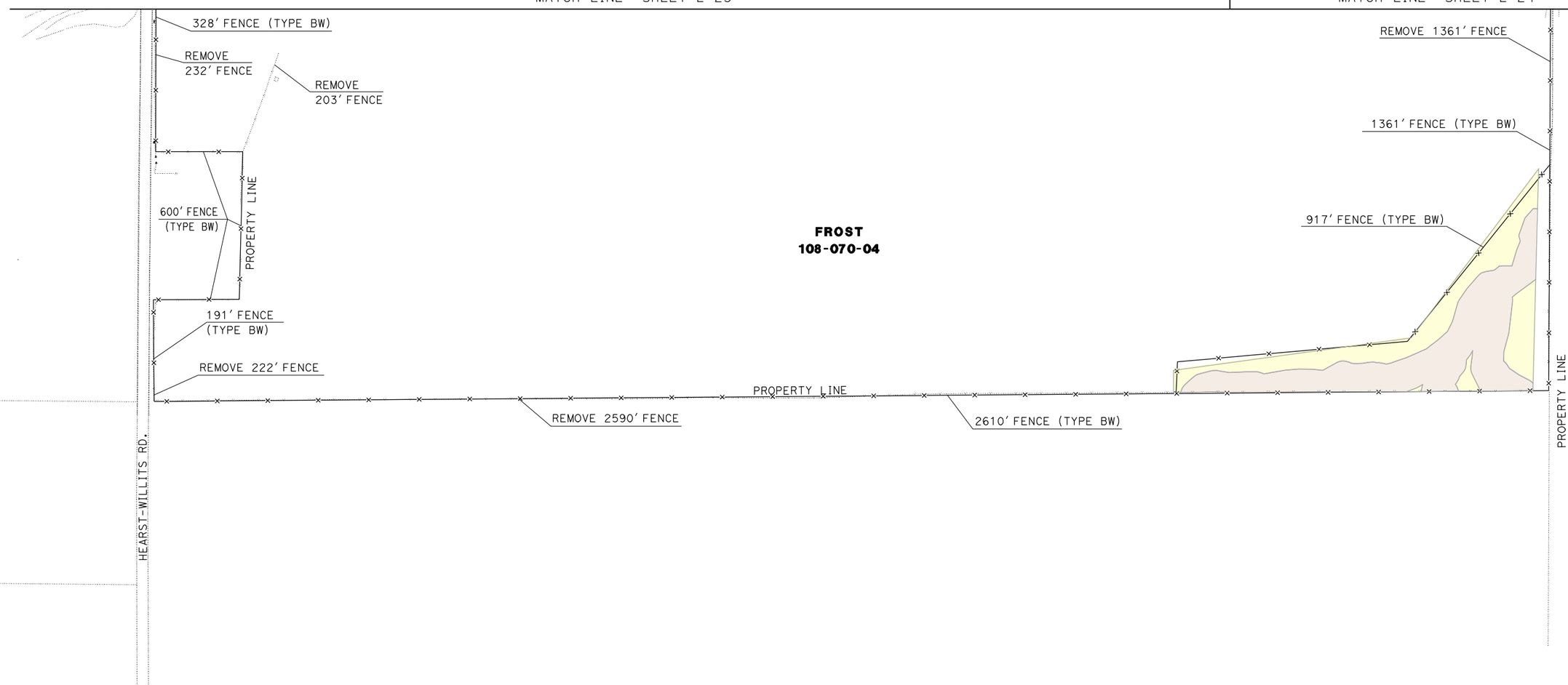
MATCH LINE SHEET L-23

MATCH LINE SHEET L-24



FROST
108-070-04

LAYOUT
SCALE: 1"=100'

L-26

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® **03-DESIGN EAST**

LAST REVISION 10-01-11 | DATE PLOTTED => 02-OCT-2011 | TIME PLOTTED => 20:58

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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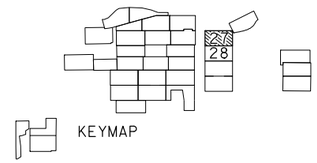
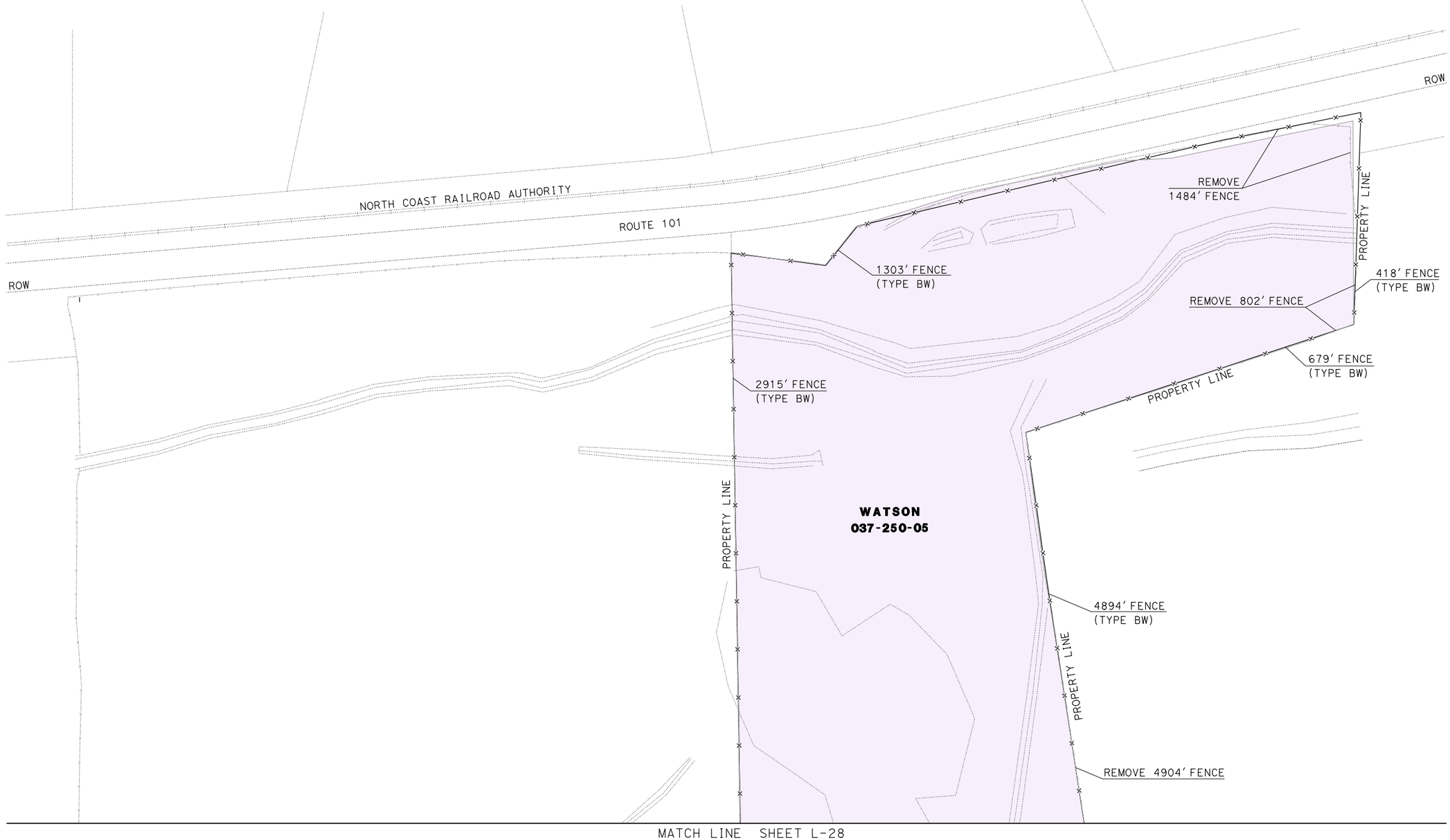


WILLITS
T19N R13W MDB&M
SEC 31

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT



LAYOUT
SCALE: 1"=100'

L-27

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 09-26-11

DATE PLOTTED => 02-OCT-2011
TIME PLOTTED => 20:59

NOTES:

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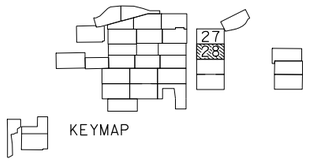

WILLITS
T19N R13W MDB&M
SEC 31

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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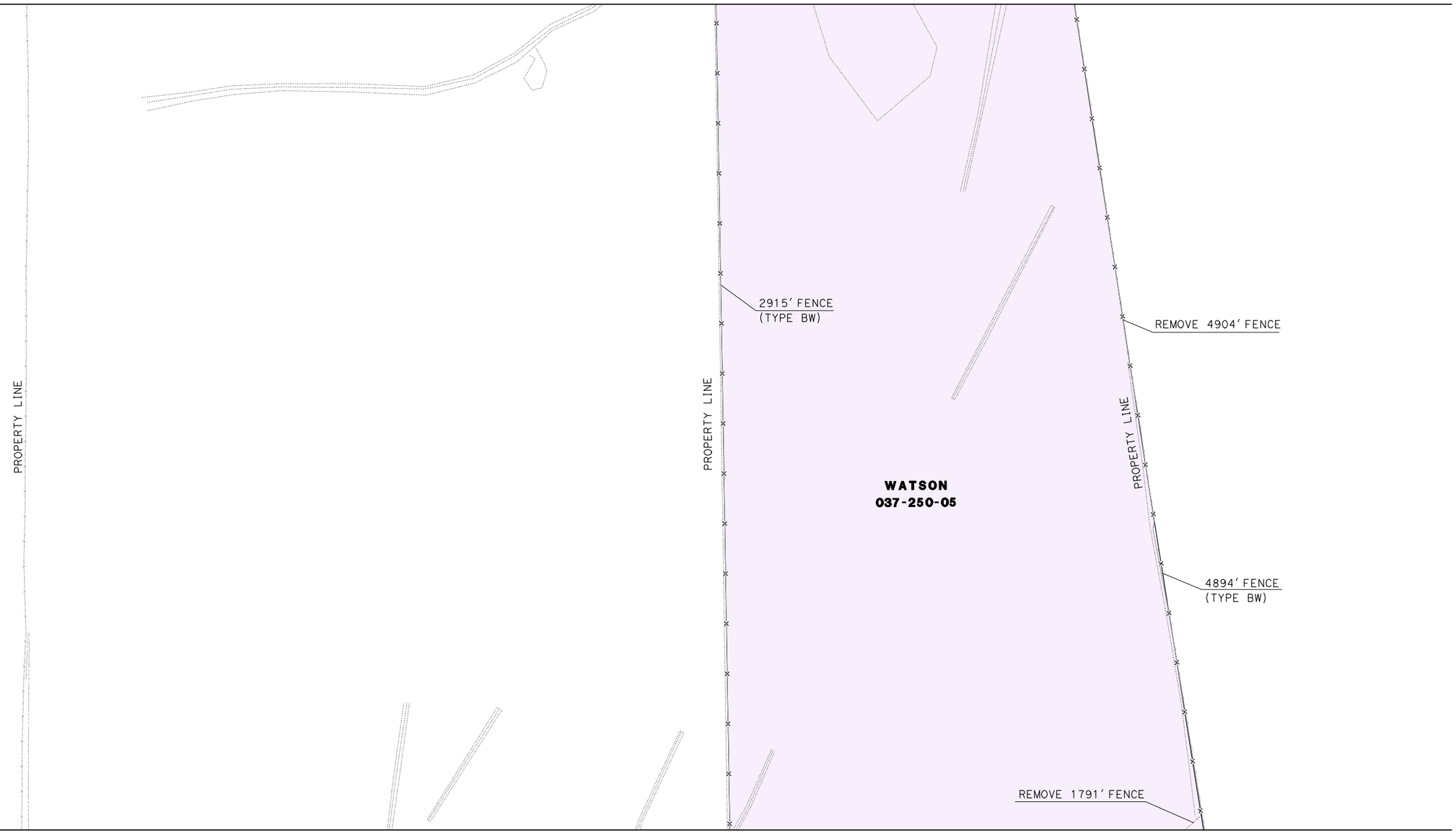
MATCH LINE SHEET L-27



MATCH LINE SHEET L-29

LAYOUT
SCALE: 1"=100'

L-28

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

LAST REVISION 10-01-11 | DATE PLOTTED => 02-OCT-2011 | TIME PLOTTED => 20:59

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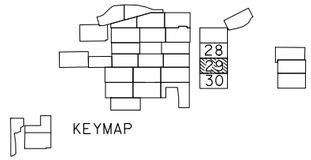

WILLITS
T19N R13W MDB&M
SEC 31 & 32

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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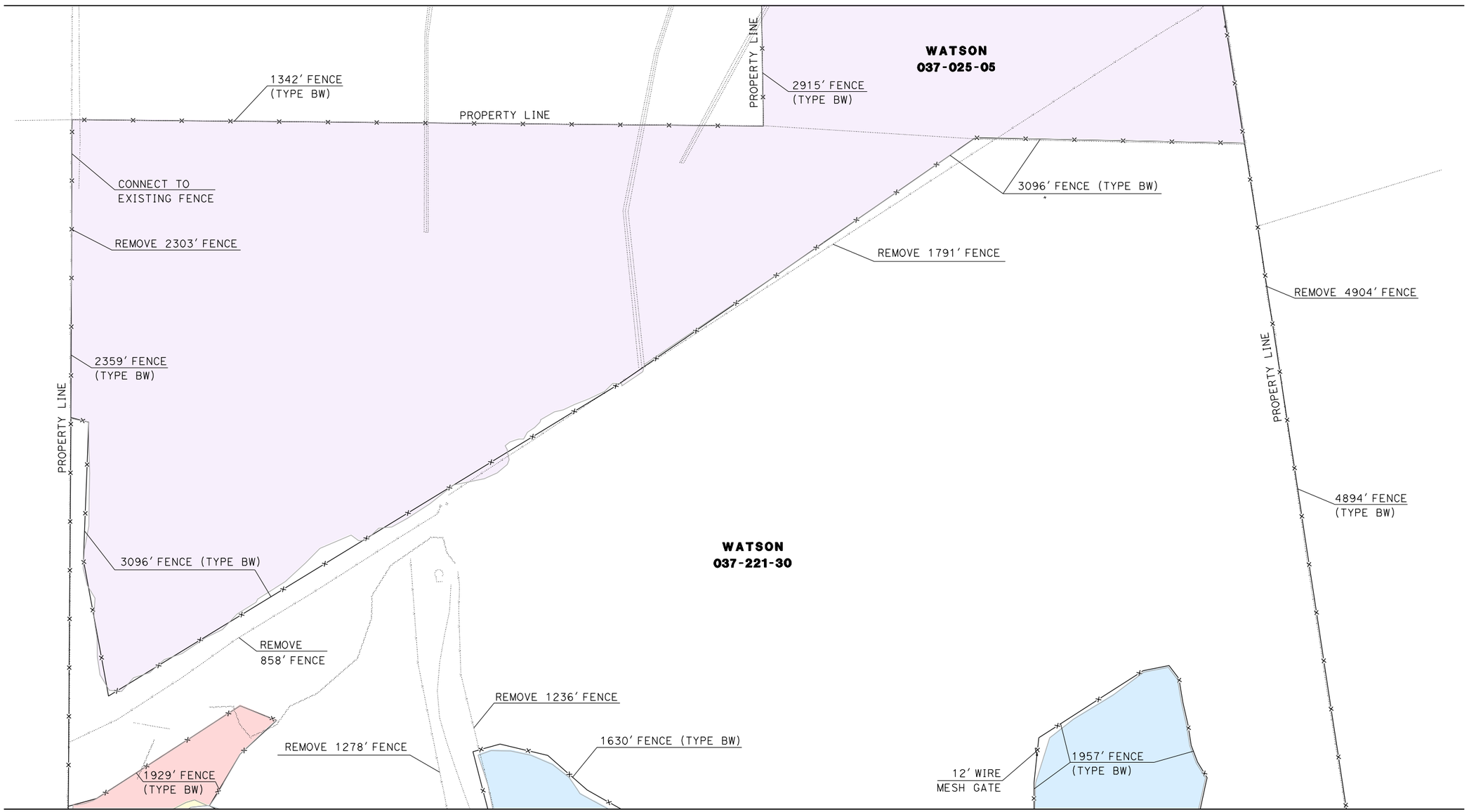
MATCH LINE SHEET L-28



MATCH LINE SHEET L-30

LAYOUT
SCALE: 1"=100'

L-29

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **03-DESIGN EAST**

LAST REVISION 10-01-11 | DATE PLOTTED => 02-OCT-2011 | TIME PLOTTED => 20:59

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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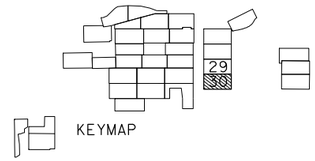
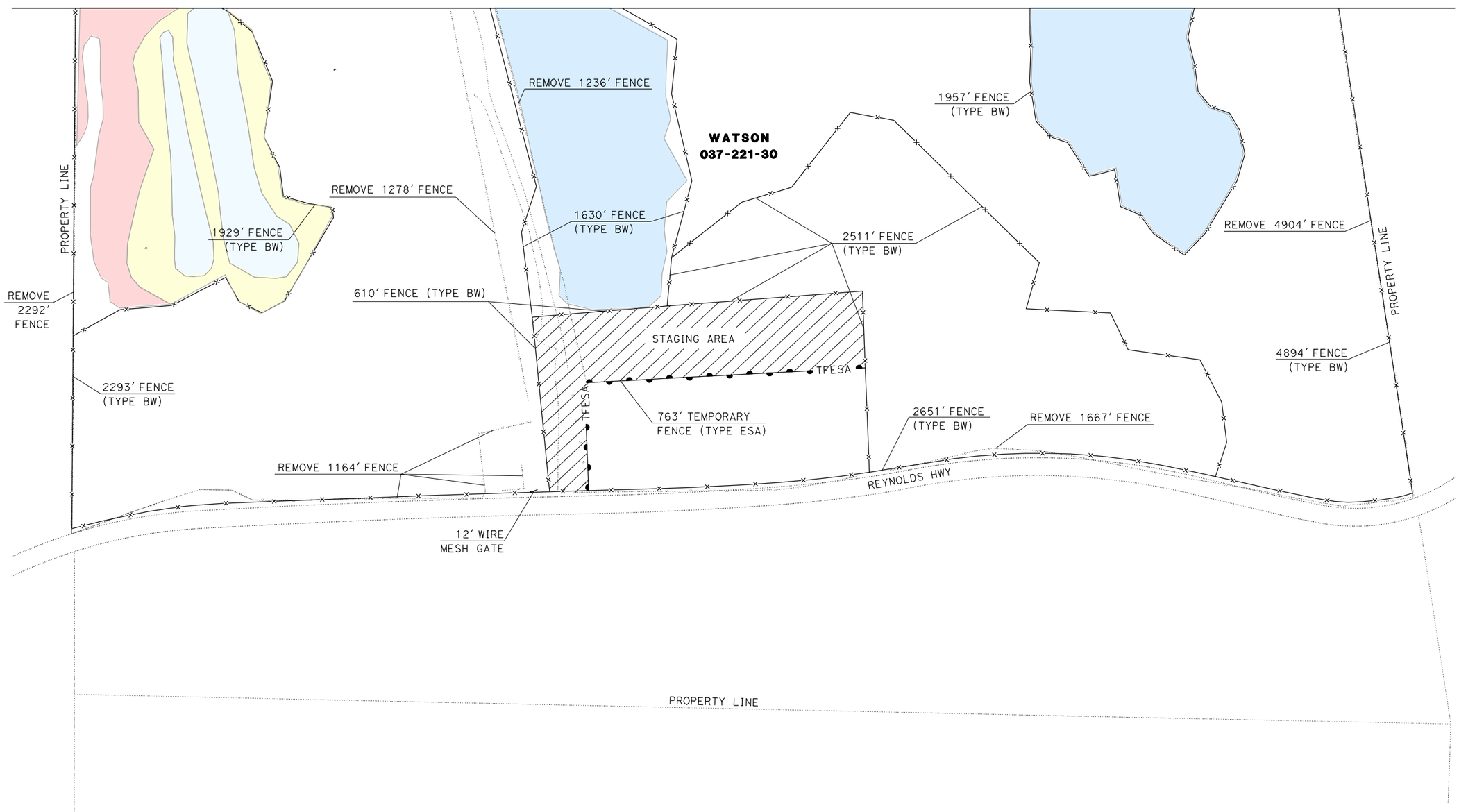


WILLITS
T19N R13W MDB&M
SEC 32

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT



LAYOUT
SCALE: 1"=100'

L-30

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

FUNCTIONAL SUPERVISOR
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 10-01-11
DATE PLOTTED => 02-OCT-2011
TIME PLOTTED => 21:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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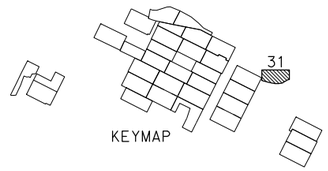
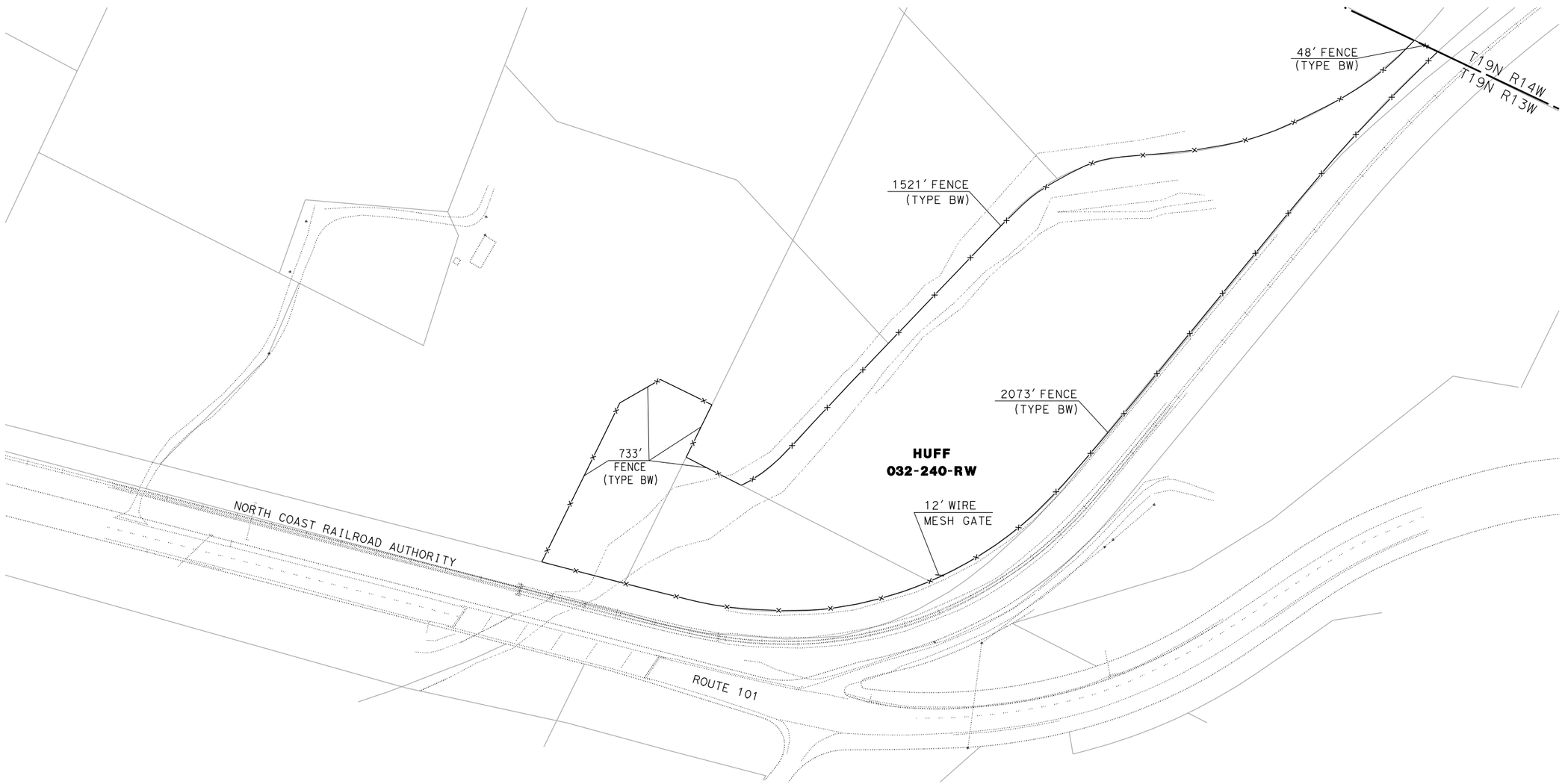


KEYMAP

WILLITS
T19N R13 & 14W MDB&M
SEC 25, 30, 31 & 36

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT



LAYOUT
SCALE: 1"=100'

L-31

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
03-DESIGN EAST

FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 09-26-11

DATE PLOTTED => 02-OCT-2011
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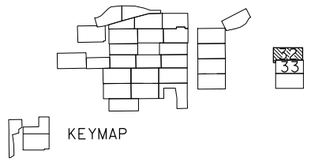

KEYMAP

WILLITS
T19N R13W MDB&M
SEC 19, 20, 29 & 30

USACE MITIGATION ACTIONS

TYPE 1	GROUP 1
TYPE 2	GROUP 2
TYPE 3	
TYPE 4	CREDIT
TYPE 5	NO CREDIT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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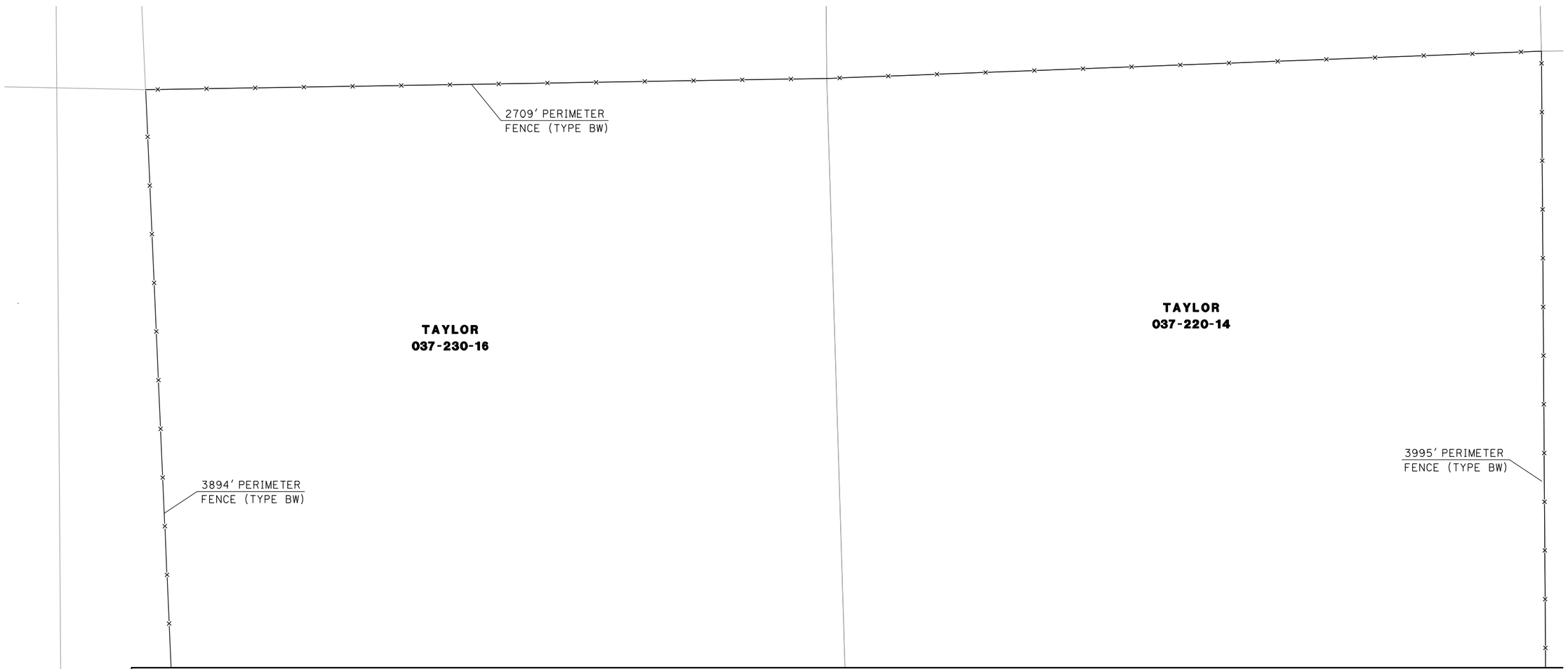

LAYOUT
SCALE: 1"=100'

L-32

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

LAST REVISION 09-26-11 | DATE PLOTTED => 02-OCT-2011 | TIME PLOTTED => 21:00

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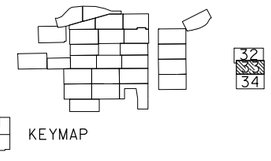

WILLITS
T19N R13W MDB&M
SEC 19, 20, 29 & 30

USACE MITIGATION ACTIONS

	TYPE 1		GROUP 1
	TYPE 2		GROUP 2
	TYPE 3		
	TYPE 4		CREDIT
	TYPE 5		NO CREDIT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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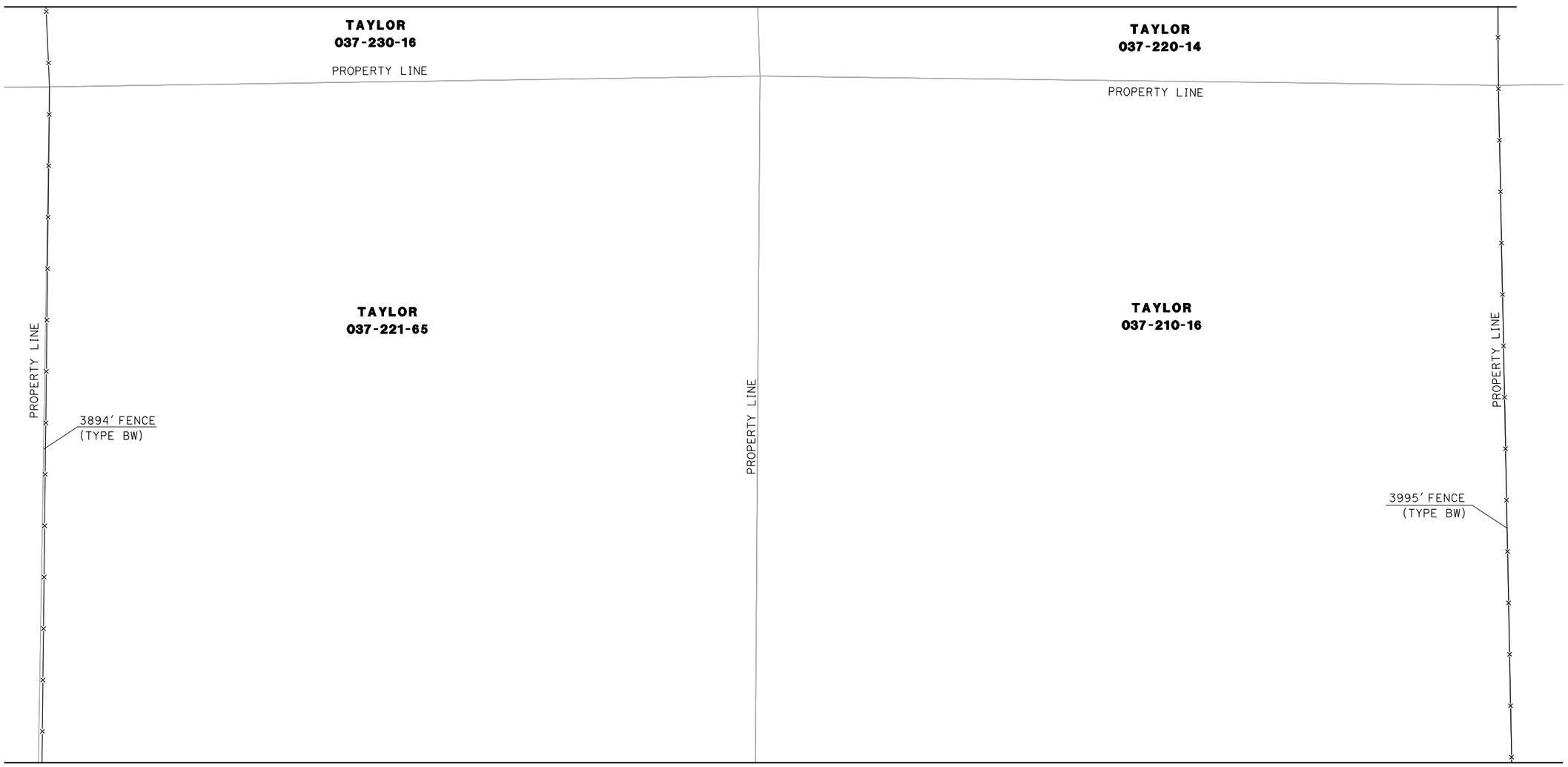
MATCHLINE SHEET L-32



MATCHLINE SHEET L-34

LAYOUT
SCALE: 1"=100'

L-33

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

LAST REVISION 09-26-11
DATE PLOTTED => 02-OCT-2011
TIME PLOTTED => 21:00

NOTES:

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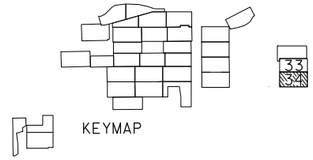

WILLITS
T19N R13W MDB&M
SEC 29

USACE MITIGATION ACTIONS

	TYPE 1		GROUP 1
	TYPE 2		GROUP 2
	TYPE 3		
	TYPE 4		CREDIT
	TYPE 5		NO CREDIT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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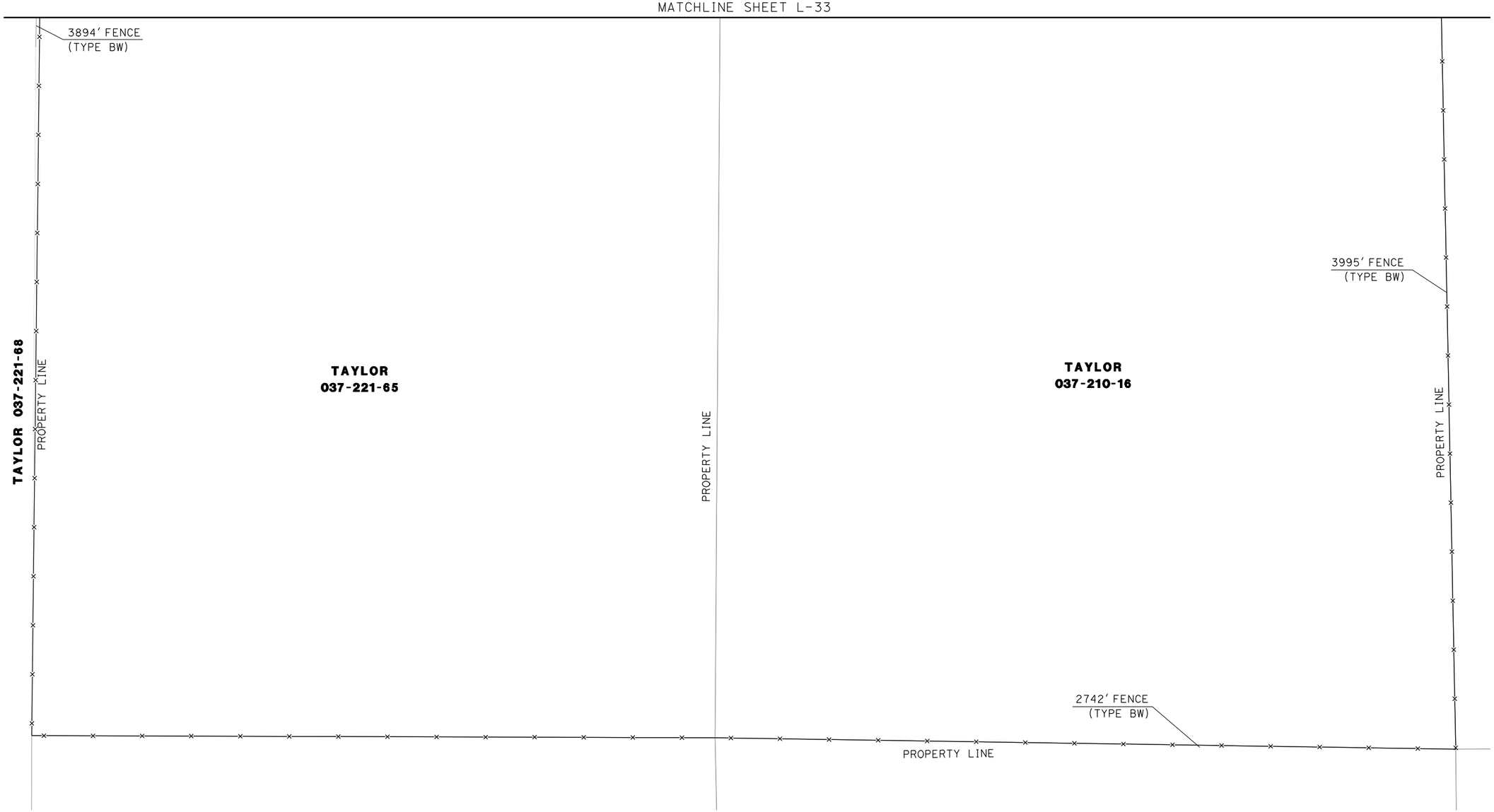
MATCHLINE SHEET L-33



LAYOUT
SCALE: 1"=100'

L-34

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 09-26-11

DATE PLOTTED => 02-OCT-2011
TIME PLOTTED => 21:01

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

KEYMAP
WETLAND ESTABLISHMENT
GROUP 1 (1.0 CREDIT)
CONTOUR GRADING

NO SCALE

K-2

REVISED BY	DATE REVISED

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FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans®

03-DESIGN EAST

LAST REVISION 09-28-11

DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 06:05

NOTES:
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2. SEE LAYOUT SHEETS FOR MITIGATION ACTIONS NOT SHOWN.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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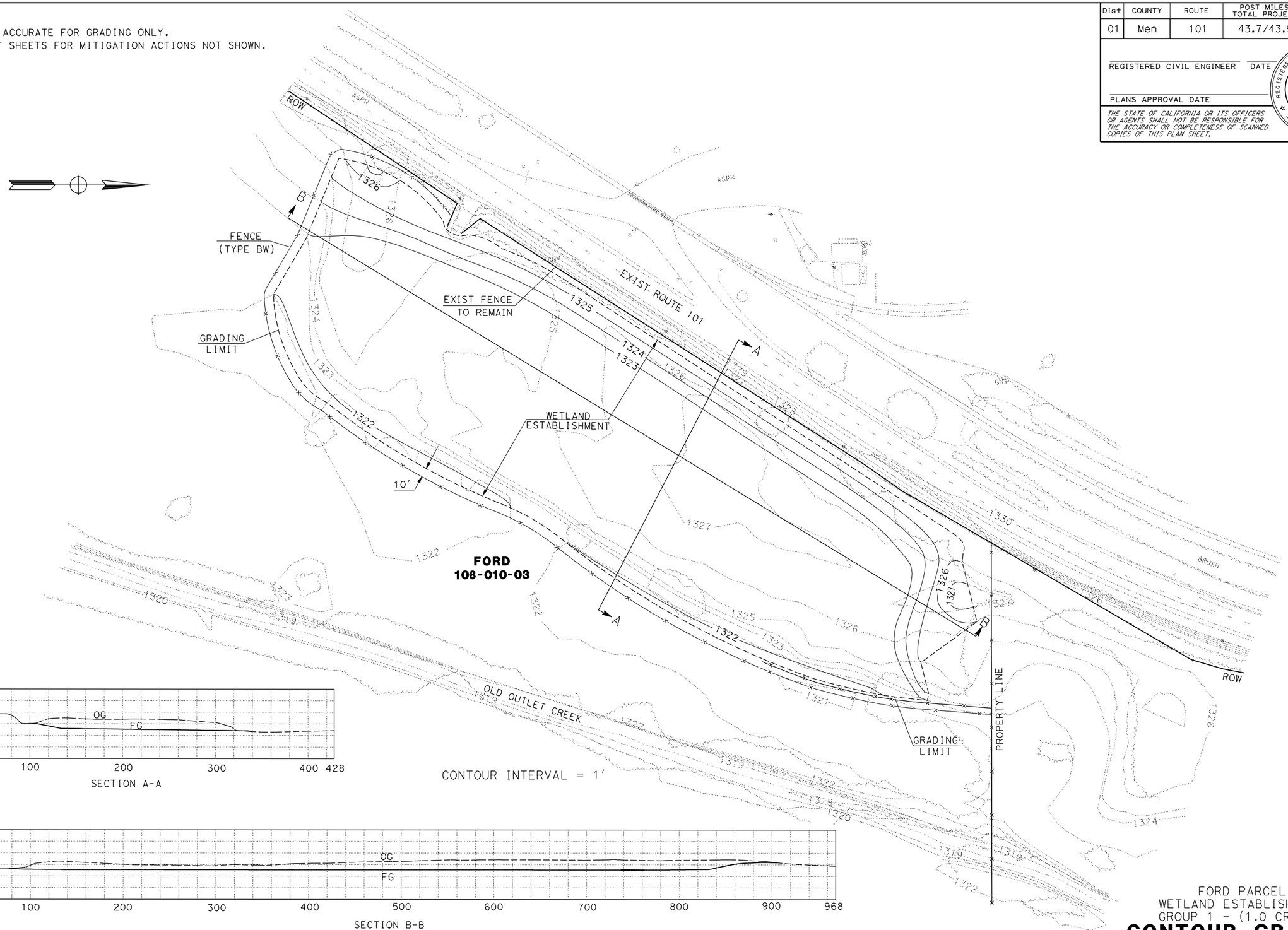

TYPICAL SECTIONS

SCALE: 1"= 50' H
1"= 20' V

FORD PARCEL
WETLAND ESTABLISHMENT
GROUP 1 - (1.0 CREDIT)

CONTOUR GRADING

SCALE: 1"=50'

G-1

REVISED BY | DATE REVISED
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FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

LAST REVISION 09-24-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 06:05

BORDER LAST REVISED 7/2/2010 | USERNAME => s114430 | DGN FILE => WE1-001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0307 | PROJECT NUMBER & PHASE 01000000054

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Signature — Renewal Date — Date — STATE OF CALIFORNIA

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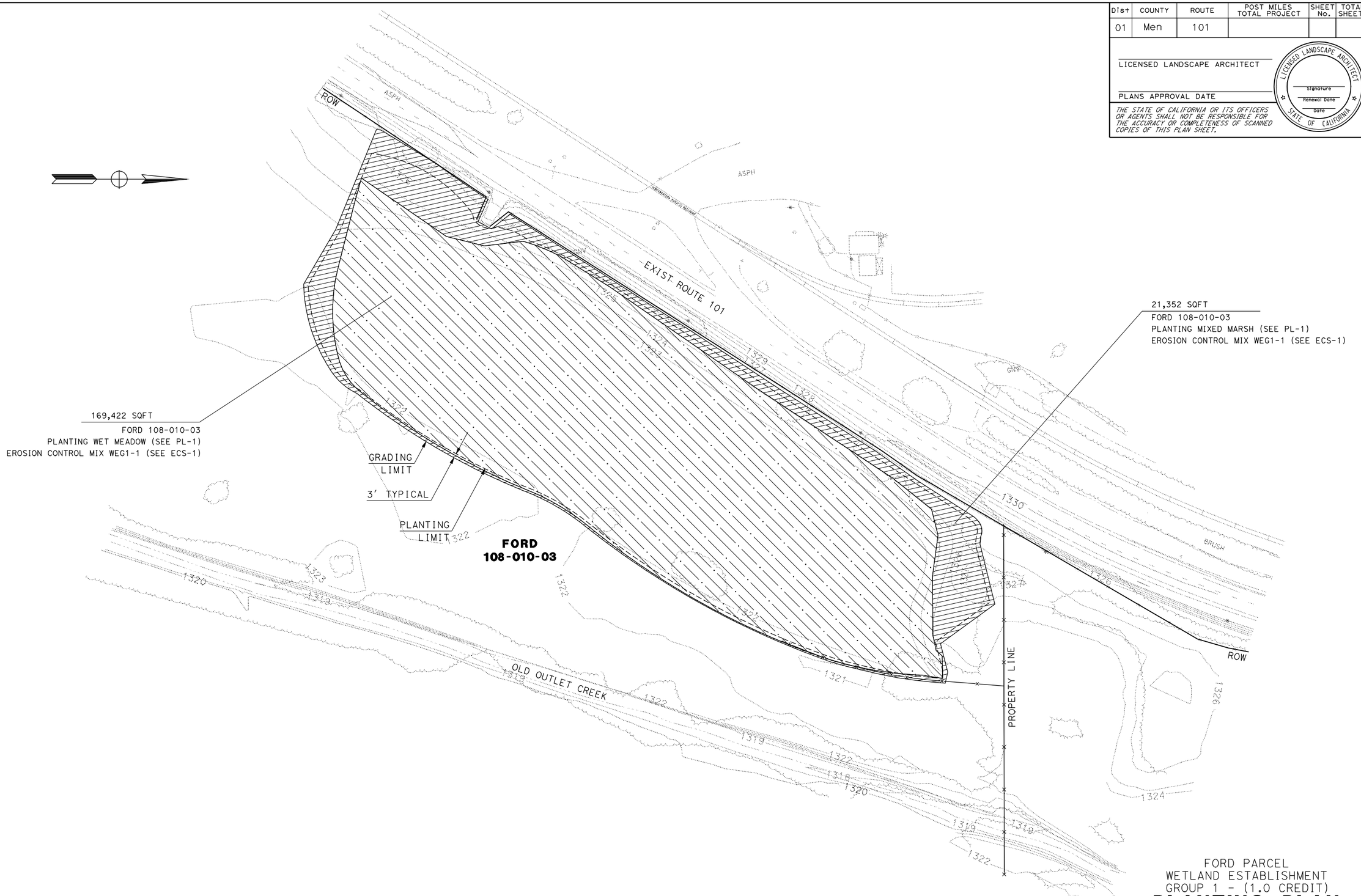

FORD PARCEL
WETLAND ESTABLISHMENT
GROUP 1 - (1.0 CREDIT)

PLANTING PLAN

SCALE: 1"=50'

PP-1

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY

CHECKED BY

SENIOR LANDSCAPE ARCHITECT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® 03 - LANDSCAPE ARCHITECTURE

LAST REVISION 00-00-00

DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 07:00

NOTES:
1. THIS PLAN ACCURATE FOR GRADING ONLY.
2. SEE LAYOUT SHEETS OTHER MITIGATION ACTIONS NOT SHOWN.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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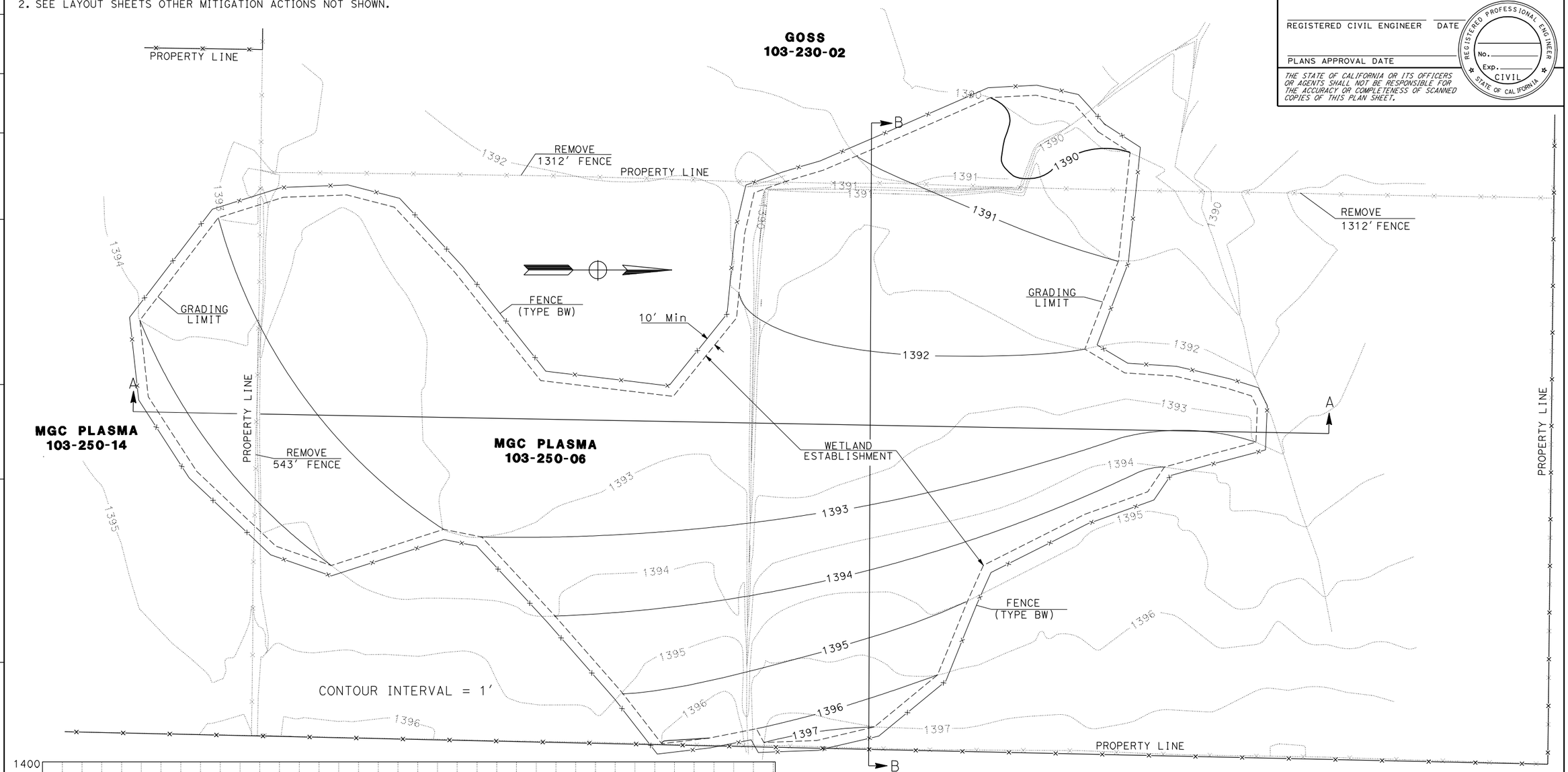

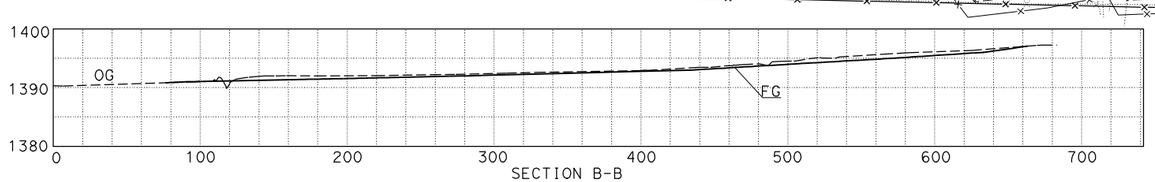

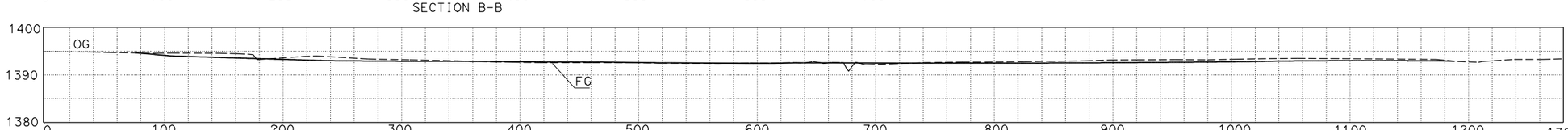

TYPICAL SECTIONS

SCALE: 1"= 50' H
1"= 20' V

MGC PLASMA/GOSS
WETLAND ESTABLISHMENT
GROUP 1 - (CREDIT 1.0)

CONTOUR GRADING

SCALE: 1"=50'

G-2

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

LAST REVISION 09-24-11
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 06:05

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

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MGC PLASMA/GOSS
WETLAND ESTABLISHMENT
GROUP 1 - (CREDIT 1.0)

PLANTING PLAN

SCALE: 1"=50'

PP-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 03 - LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT

CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 07:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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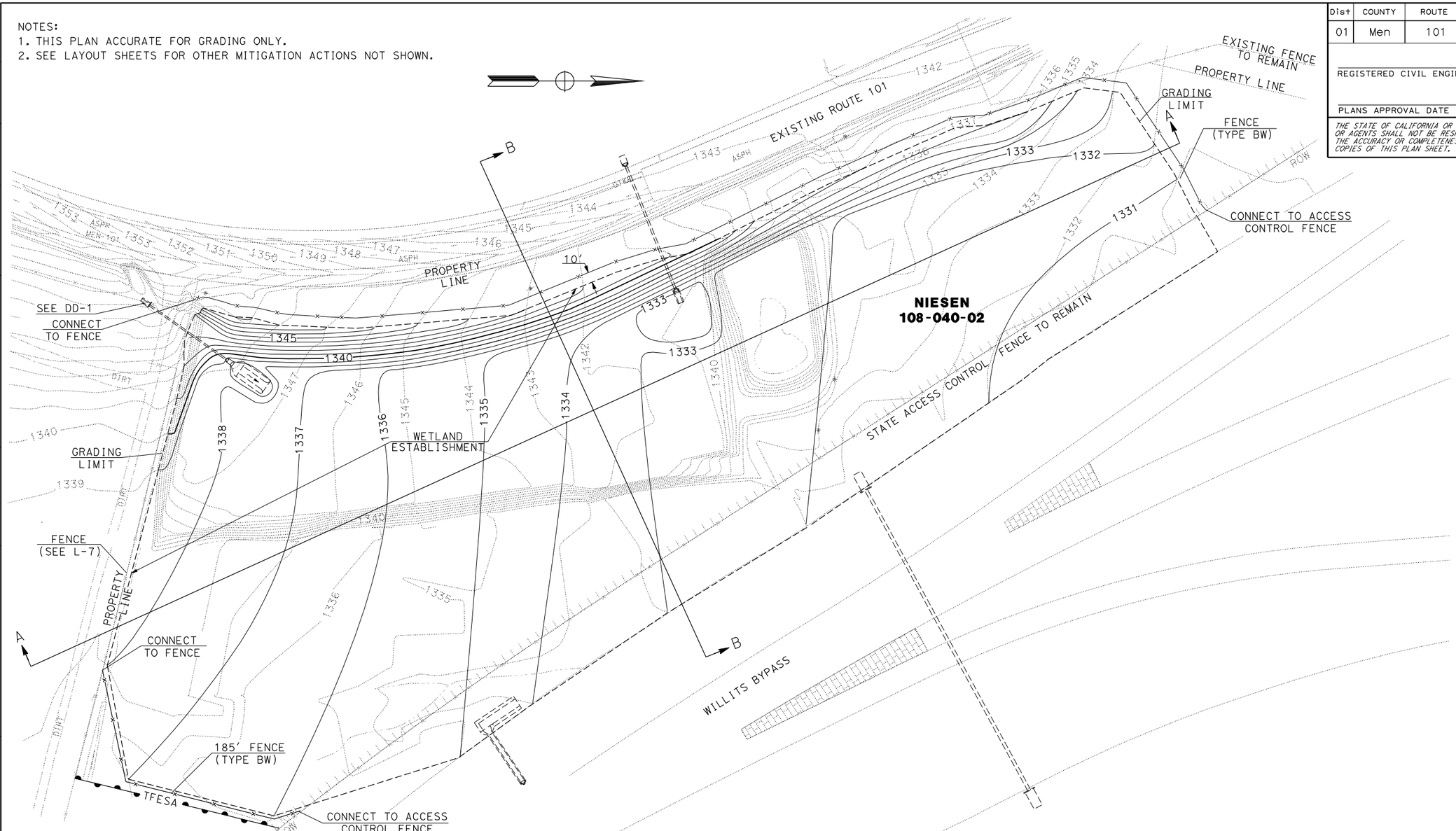
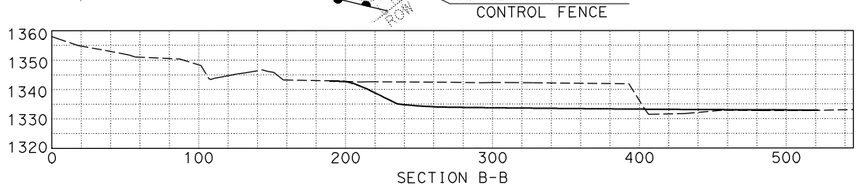
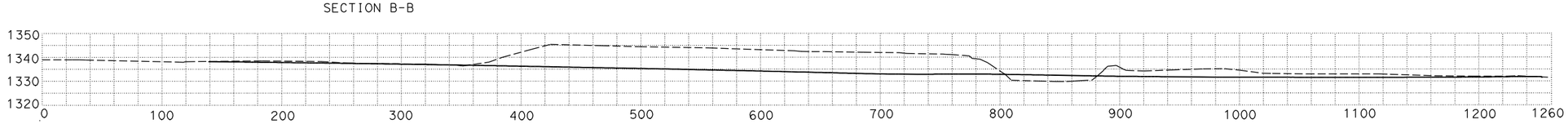




SECTION B-B



SECTION A-A

SCALE: 1"= 50' H
1"= 25' V

TYPICAL SECTIONS

NIESEN PARCEL
WETLAND ESTABLISHMENT
GROUP 1 - (CREDIT 1.0)

CONTOUR GRADING

SCALE: 1"=50'

G-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

FUNCTIONAL SUPERVISOR
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CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 09-24-11
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 06:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

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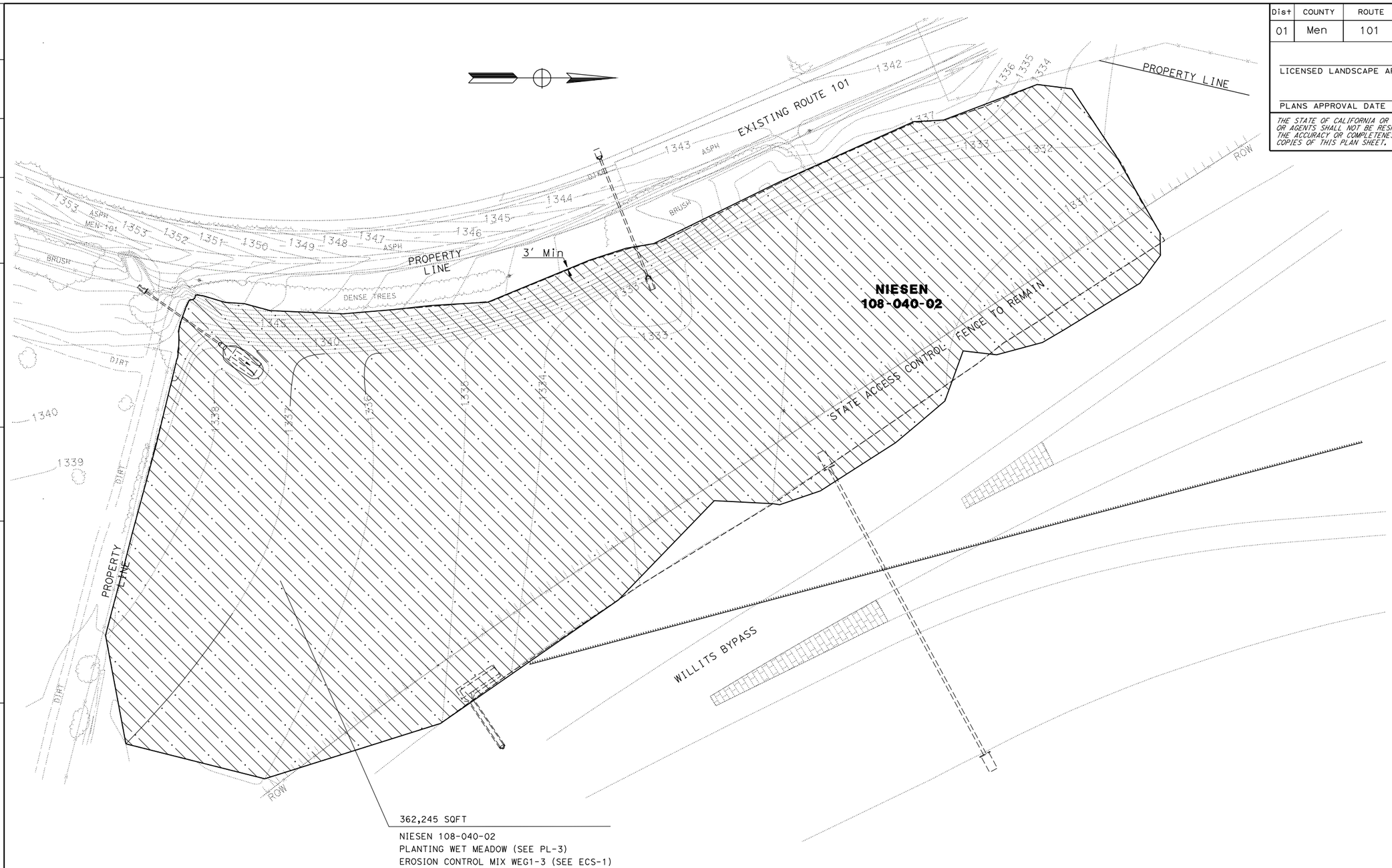

362,245 SQFT
NIESEN 108-040-02
PLANTING WET MEADOW (SEE PL-3)
EROSION CONTROL MIX WEG1-3 (SEE ECS-1)

NIESEN PARCEL
WETLAND ESTABLISHMENT
GROUP 1 - (CREDIT 1.0)

PLANTING PLAN

SCALE: 1"=50'

PP-3

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY
CHECKED BY
SENIOR LANDSCAPE ARCHITECT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 03 - LANDSCAPE ARCHITECTURE

LAST REVISION 00-00-00
DATE PLOTTED => 03-OCT-2011
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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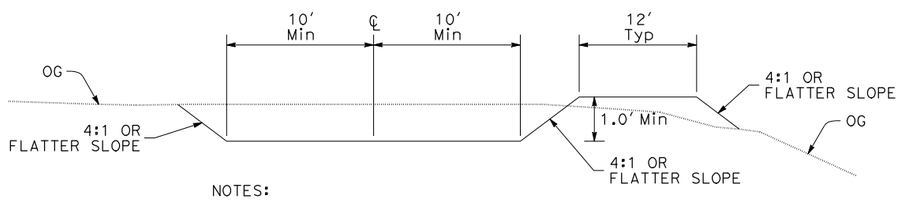
NOTES:

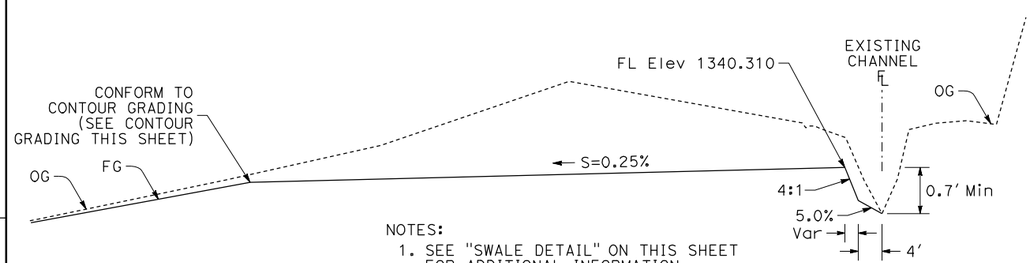
1. THIS PLAN ACCURATE FOR GRADING ONLY.
2. SEE LAYOUT SHEETS FOR OTHER MITIGATION ACTIONS NOT SHOWN.
3. FOR ACCURATE PROPERTY LINES, R/W AND ACCESS DATA. SEE R/W MAPS AT DISTRICT OFFICE.



NOTES:

1. SEE "SWALE DETAIL" ON SHEET DD-11 FOR EROSION CONTROL DETAILS.
2. SEE "SECTION C-C" ON THIS SHEET FOR ADDITIONAL INFORMATION.

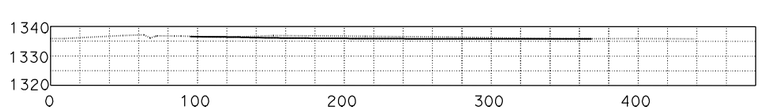
SECTION D-D



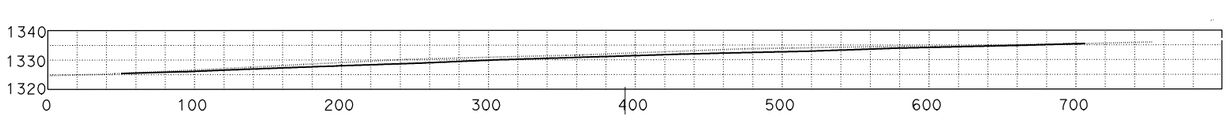
NOTES:

1. SEE "SWALE DETAIL" ON THIS SHEET FOR ADDITIONAL INFORMATION.

SECTION C-C



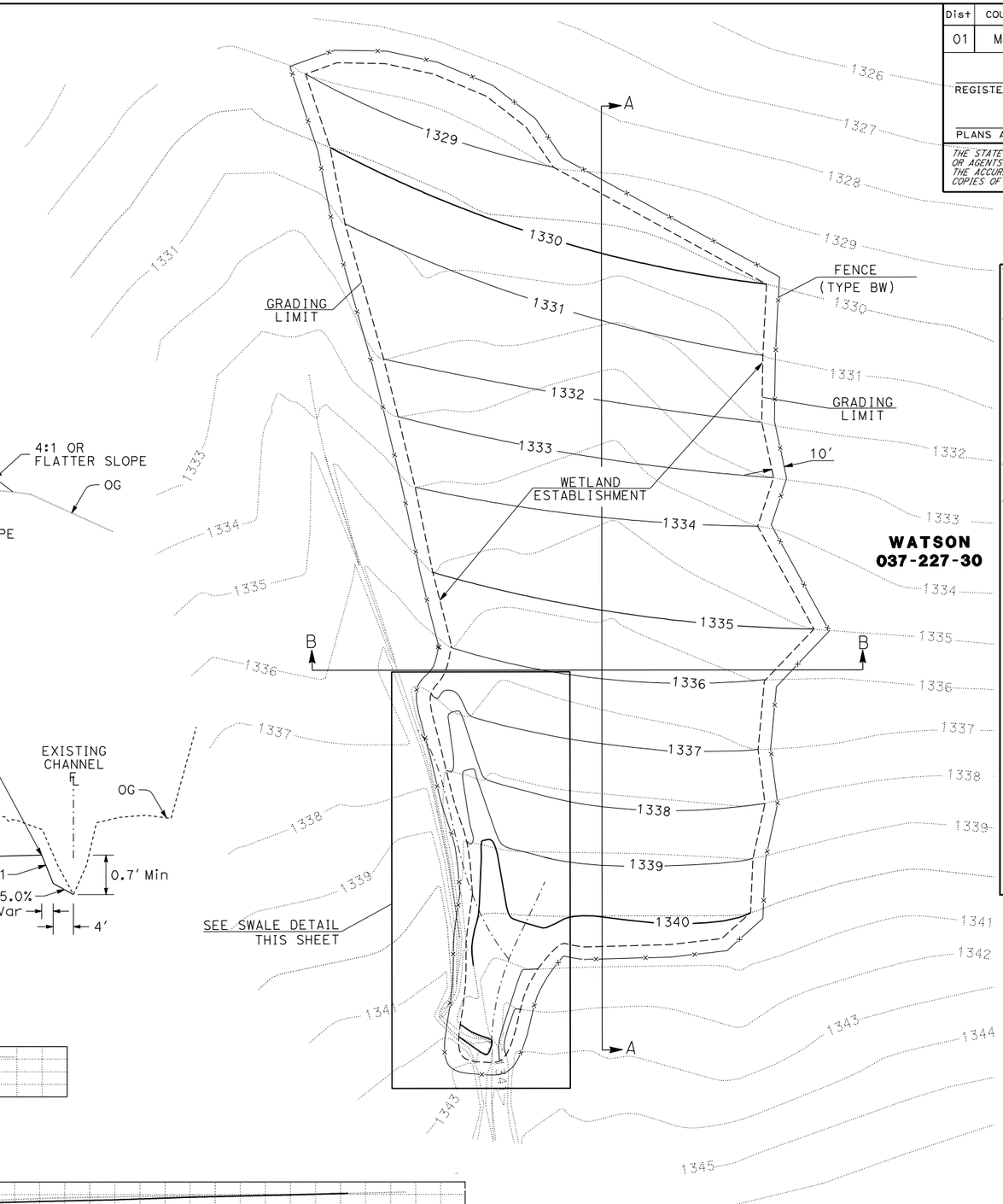
SECTION B-B



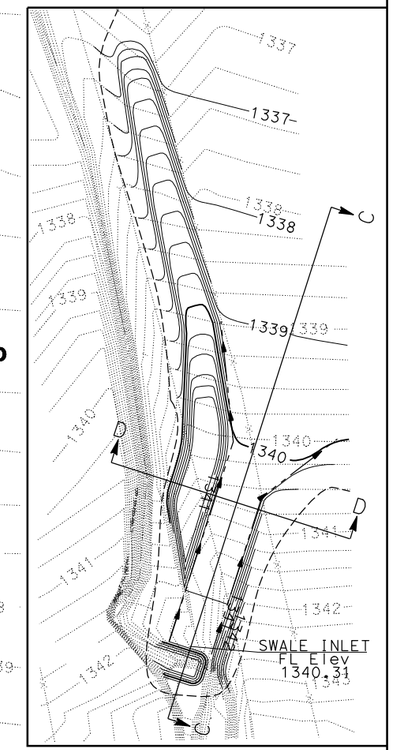
SECTION A-A

SCALE: 1"= 50' H
1"= 20' V

TYPICAL SECTIONS



WATSON
037-227-30



SWALE DETAIL

CONTOUR INTERVAL=1/4'

WATSON PARCEL
WETLAND ESTABLISHMENT
GROUP 1 - (1.0 CREDIT)

CONTOUR GRADING

SCALE: 1"=50'

CONTOUR INTERVAL = 1'

G-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 03-DESIGN EAST

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

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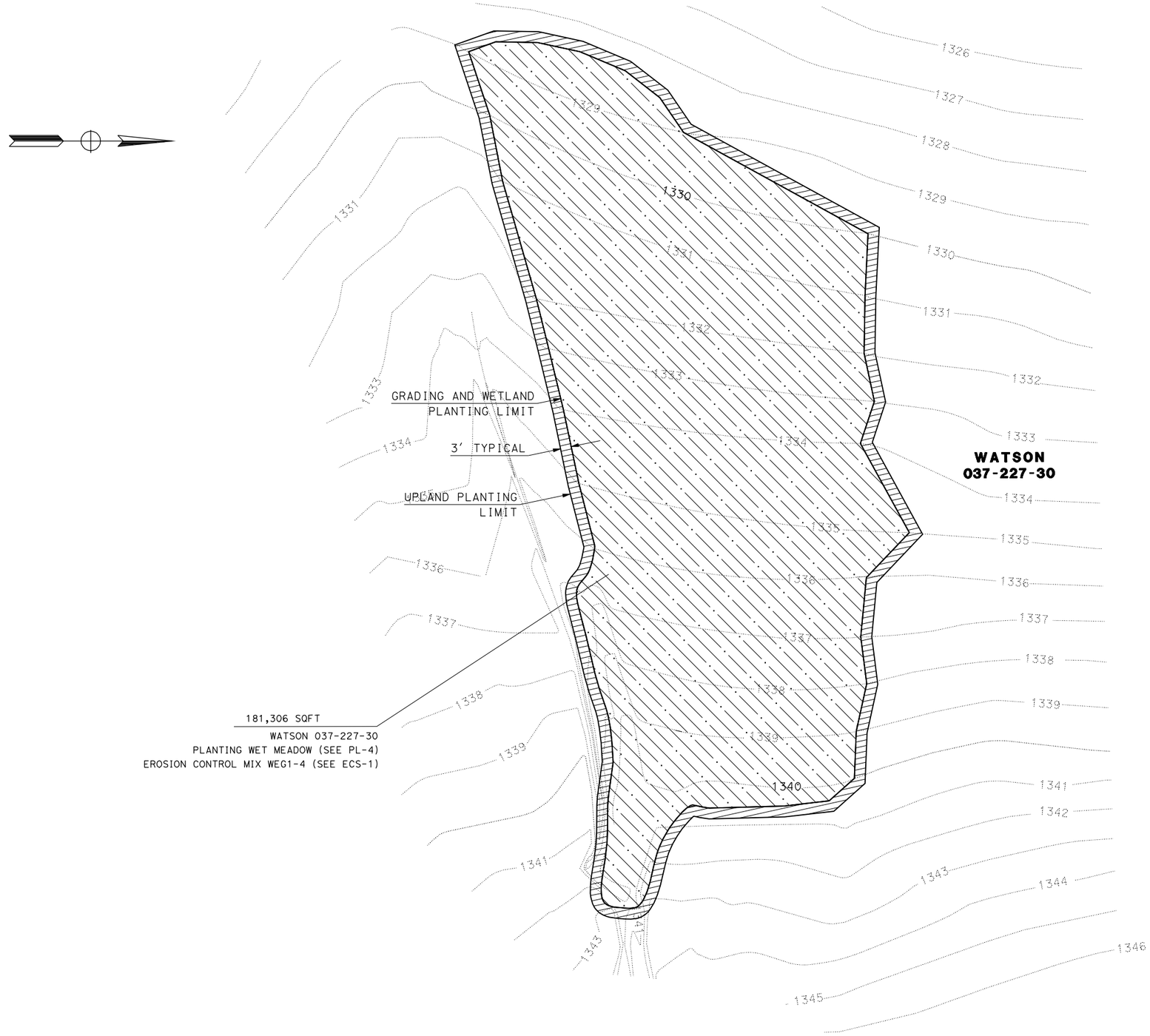

WATSON PARCEL
WETLAND ESTABLISHMENT
GROUP 1 - (1.0 CREDIT)

PLANTING PLAN

SCALE: 1"=50'

PP-4

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SENIOR LANDSCAPE ARCHITECT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 03 - LANDSCAPE ARCHITECTURE

LAST REVISION 00-00-00
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 07:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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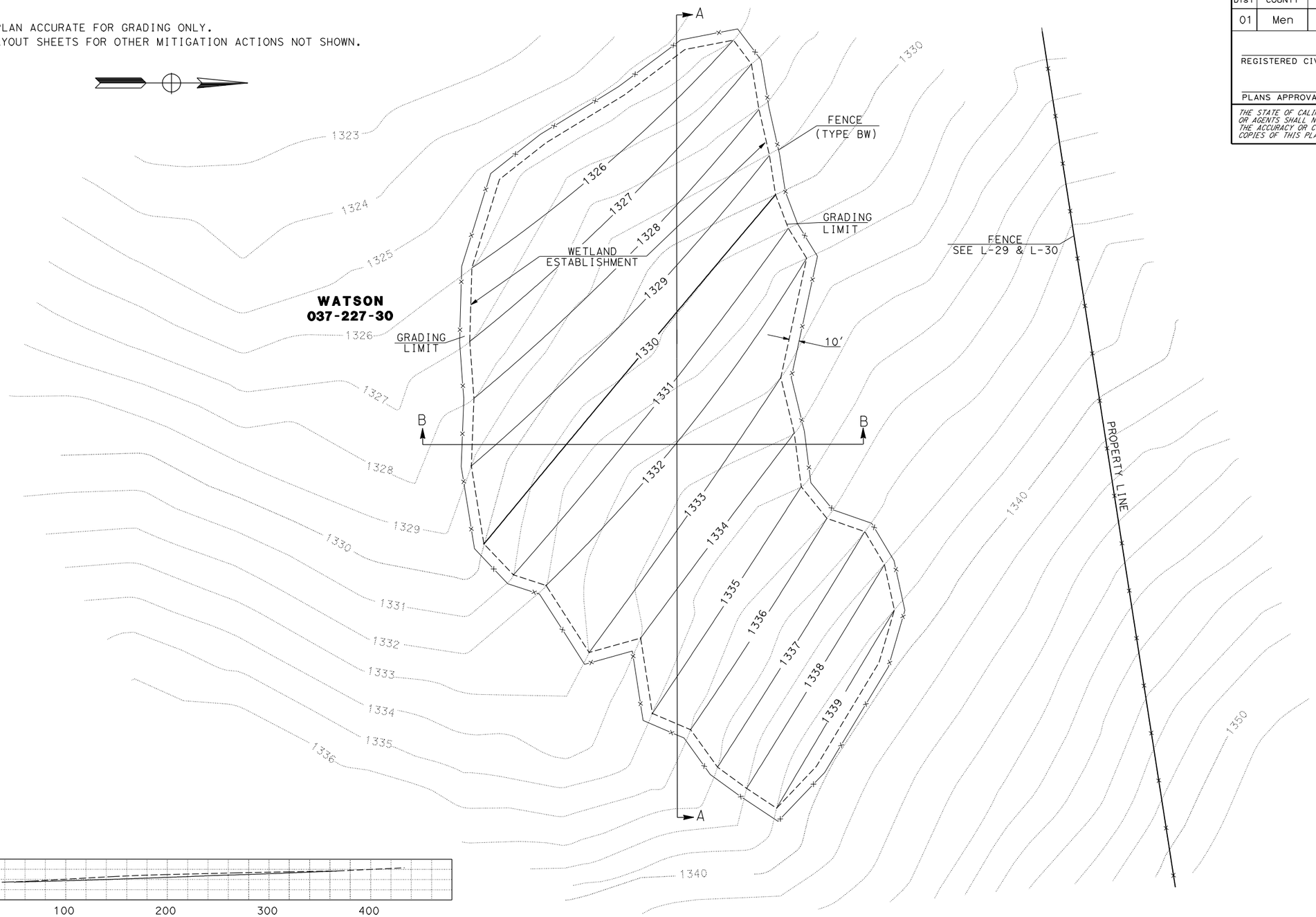
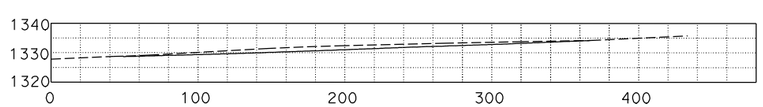
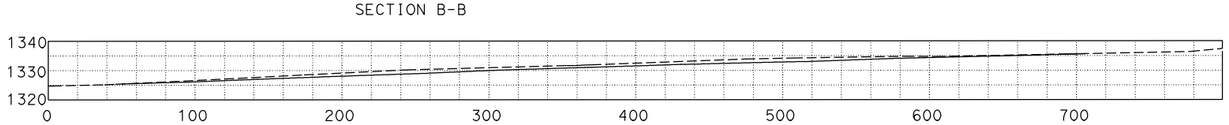


CONTOUR INTERVAL = 1'



SECTION B-B



SECTION A-A

SCALE: 1"= 50' H
1"= 20' V

TYPICAL SECTIONS

WATSON PARCEL
WETLAND ESTABLISHMENT
GROUP 1 - (1.0 CREDIT)

CONTOUR GRADING

SCALE: 1"=50'

G-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

FUNCTIONAL SUPERVISOR
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 09-24-11
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 06:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

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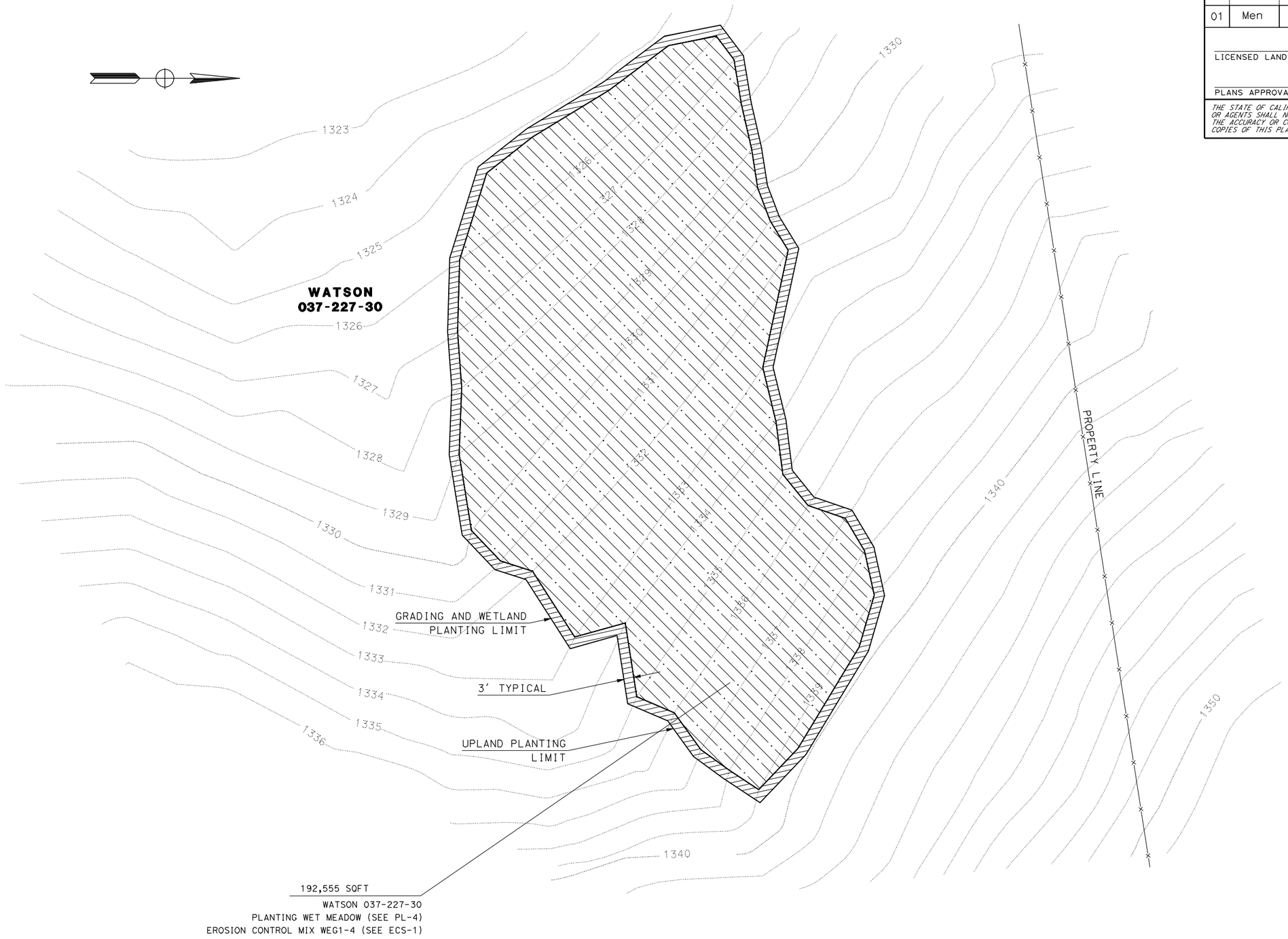

WATSON PARCEL
WETLAND ESTABLISHMENT
GROUP 1 - (1.0 CREDIT)

PLANTING PLAN

SCALE: 1"=50'

PP-5

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY
CHECKED BY
SENIOR LANDSCAPE ARCHITECT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 03 - LANDSCAPE ARCHITECTURE

LAST REVISION 00-00-00
DATE PLOTTED => 03-OCT-2011
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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KEYMAP
WETLAND ESTABLISHMENT GROUP 2 - (0.3 CREDIT) CONTOUR GRADING

NO SCALE

K-3

REVISED BY | DATE REVISED

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FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans®

03-DESIGN EAST

LAST REVISION 09-27-11

DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 06:06

BORDER LAST REVISED 7/1/2010

USERNAME => s114430
DGN FILE => WE2-000keymap3.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0307

PROJECT NUMBER & PHASE 01000000054

NOTES:
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2. SEE LAYOUT SHEETS FOR OTHER MITIGATION ACTIONS NOT SHOWN.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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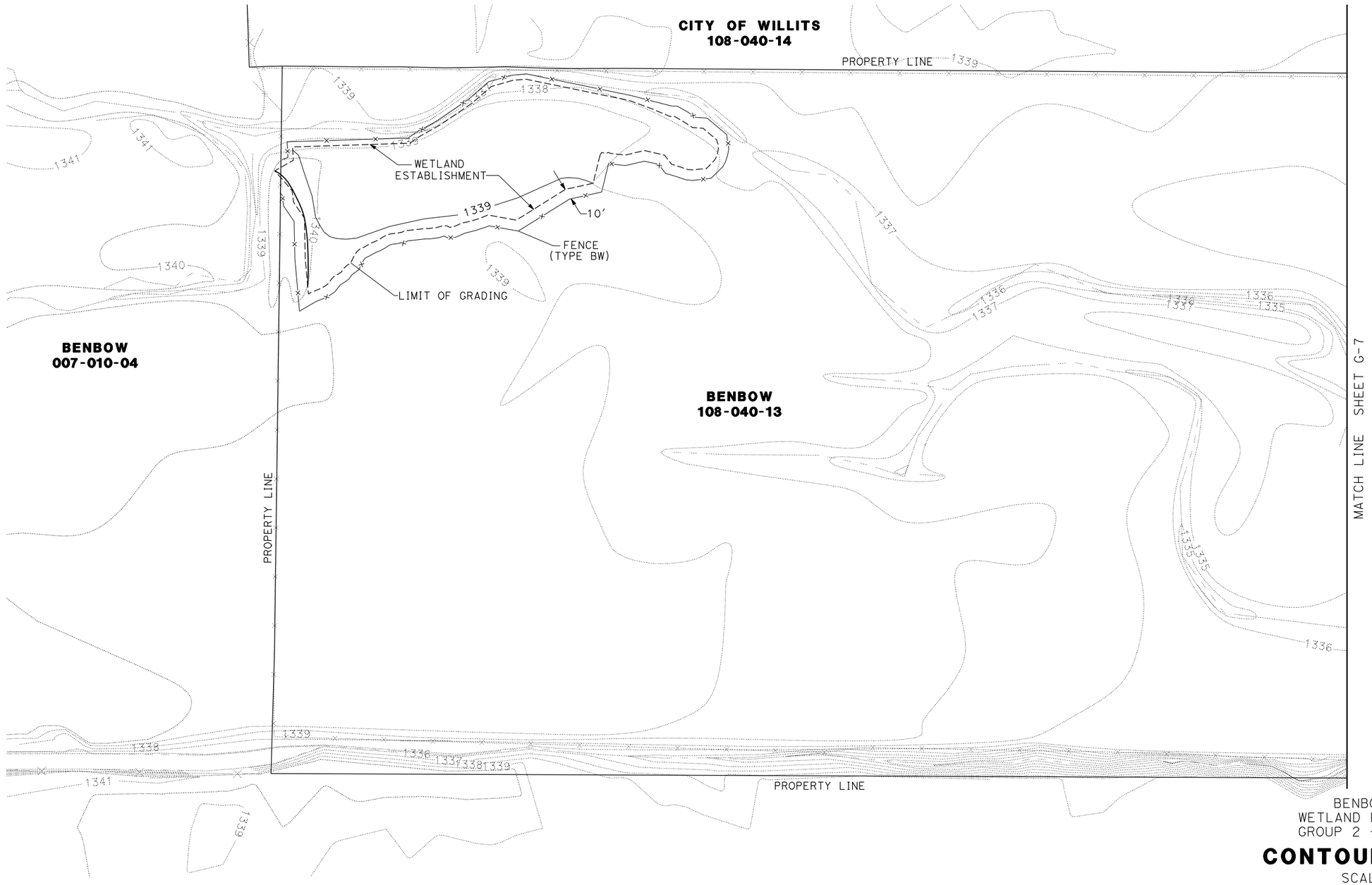

BENBOW PARCEL
WETLAND ESTABLISHMENT
GROUP 2 - (0.3 CREDIT)

CONTOUR GRADING

SCALE: 1"=50'

CONTOUR INTERVAL = 1'

G-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 09-24-11
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 06:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Signature — Renewal Date — Date — STATE OF CALIFORNIA

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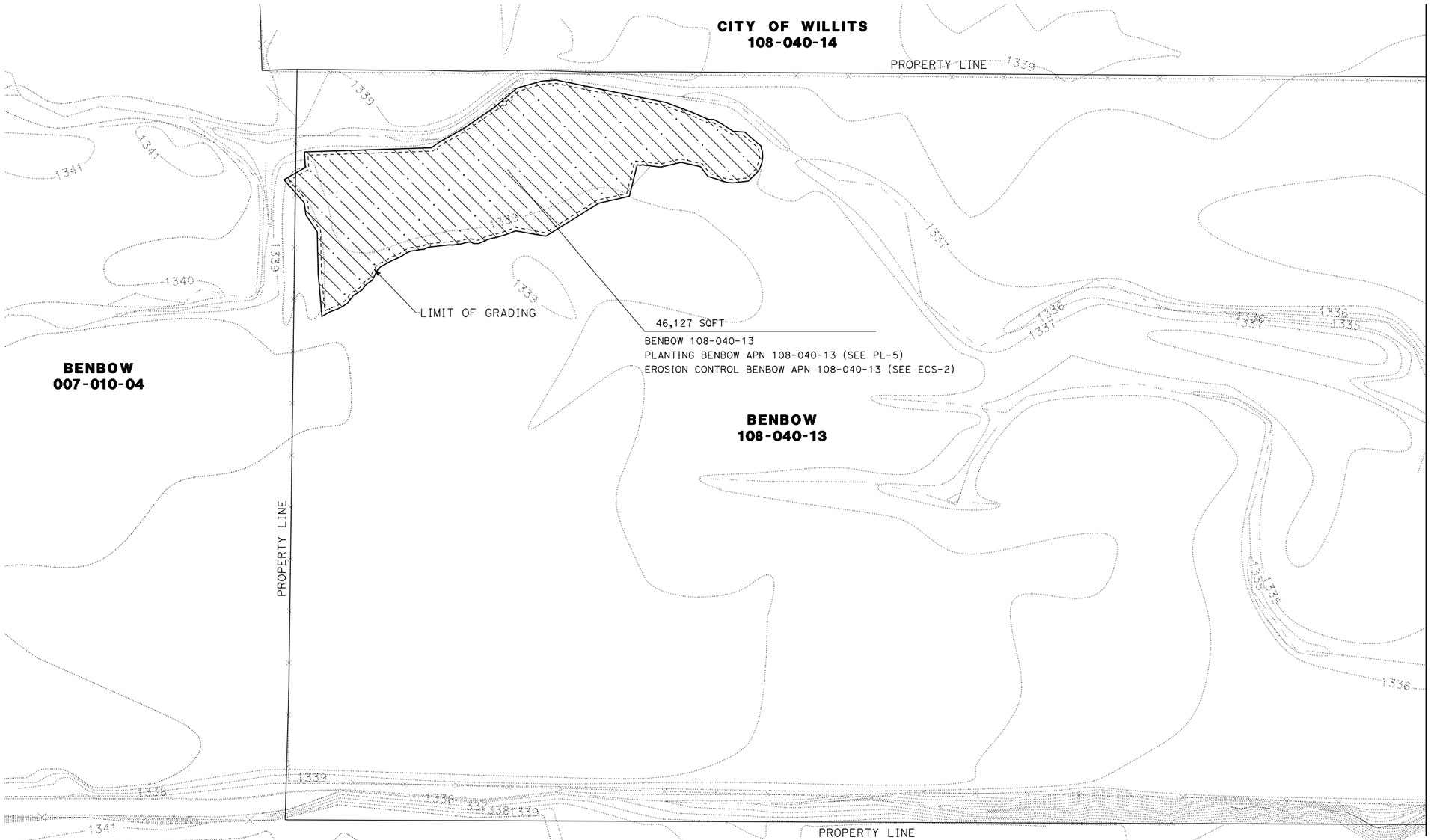

BENBOW PARCEL
WETLAND ESTABLISHMENT
GROUP 2 - (0.3 CREDIT)

PLANTING PLAN

SCALE: 1"=50'

PP-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® 03 - LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT

CALCULATED-DESIGNED BY

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 00-00-00

DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 07:00

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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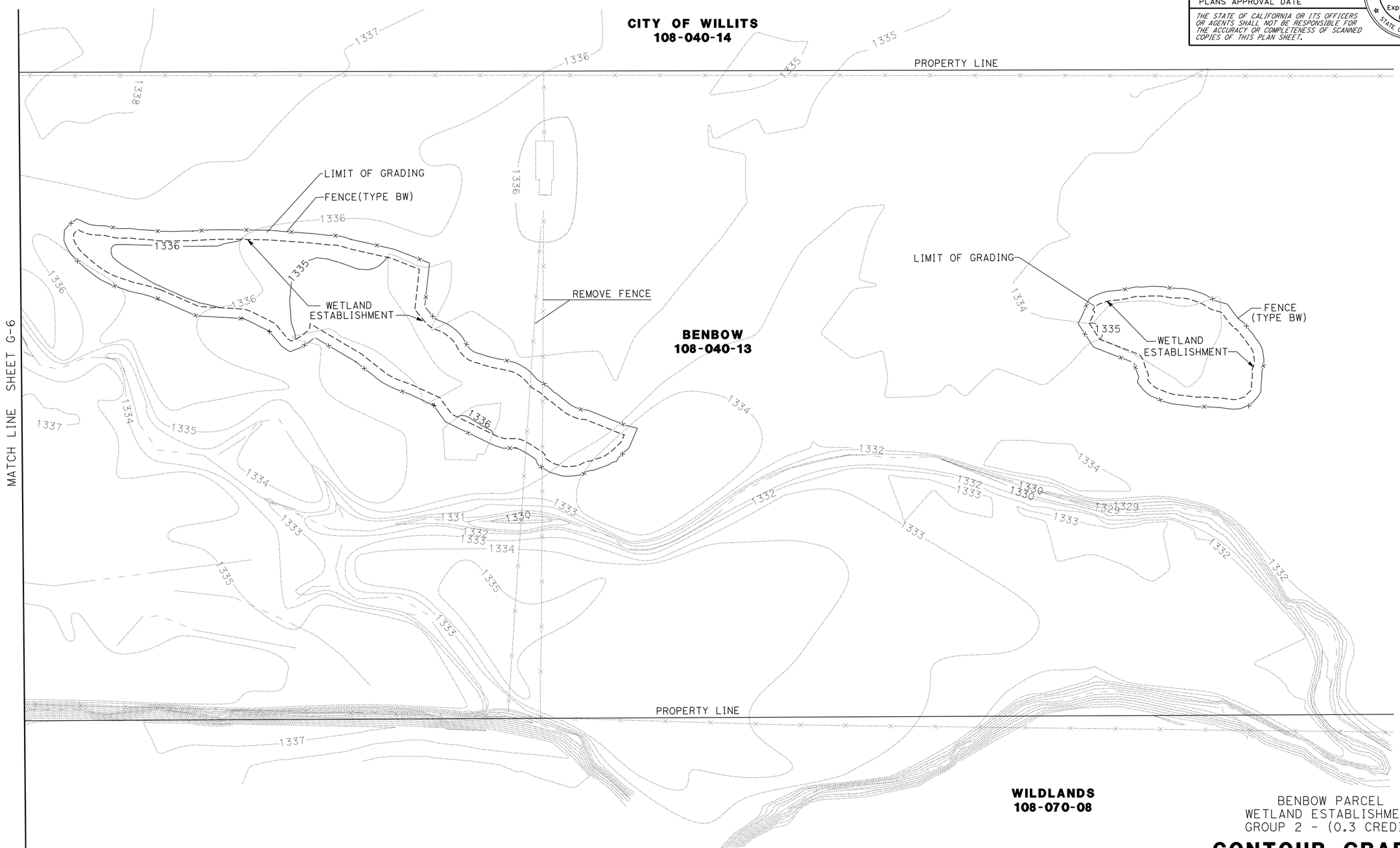

BENBOW PARCEL
WETLAND ESTABLISHMENT
GROUP 2 - (0.3 CREDIT)

CONTOUR GRADING

SCALE: 1"=50'

G-7

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY
CHECKED BY
FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

LAST REVISION 09-24-11
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 06:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Signature — Renewal Date — Date — STATE OF CALIFORNIA

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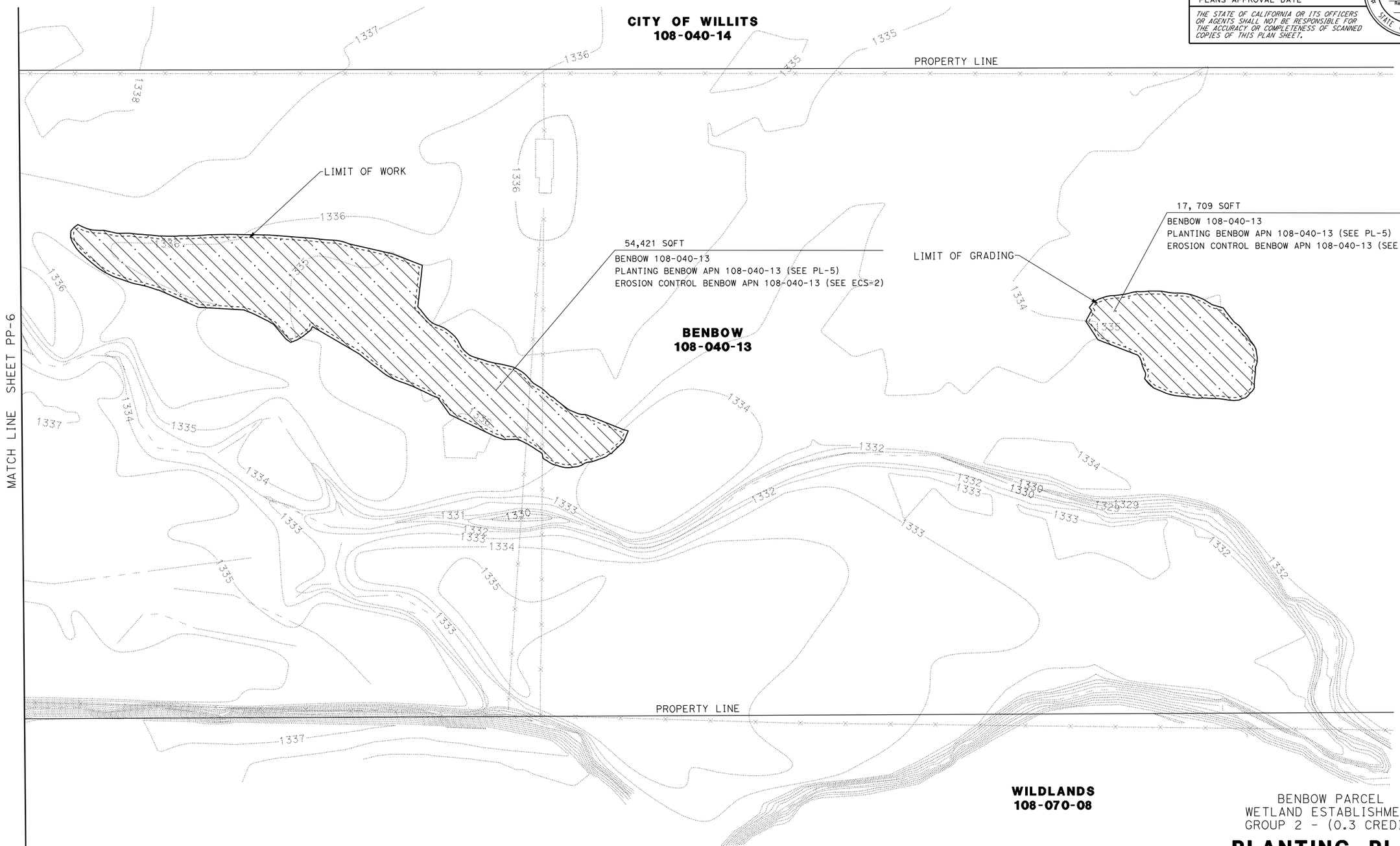

BENBOW PARCEL
WETLAND ESTABLISHMENT
GROUP 2 - (0.3 CREDIT)

PLANTING PLAN

SCALE: 1"=50'

PP-7

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY

CHECKED BY

SENIOR LANDSCAPE ARCHITECT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® 03 - LANDSCAPE ARCHITECTURE

LAST REVISION 00-00-00

DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 07:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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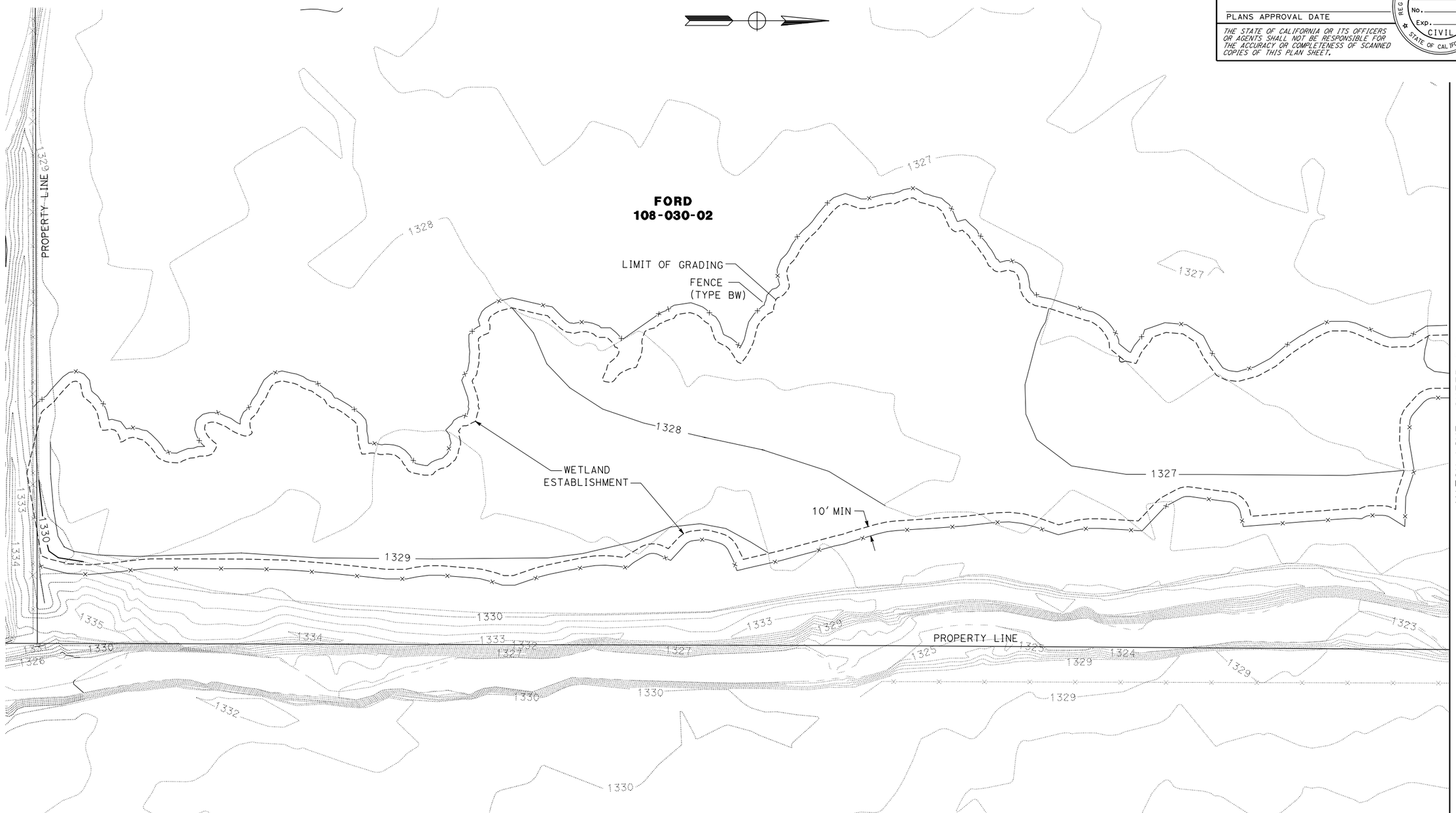

FORD PARCEL
WETLAND ESTABLISHMENT
GROUP 2 - (0.3 CREDIT)

CONTOUR GRADING

SCALE: 1"=50'

G-8

REVISED BY | DATE REVISED

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FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

03-DESIGN EAST

LAST REVISION 09-24-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 06:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

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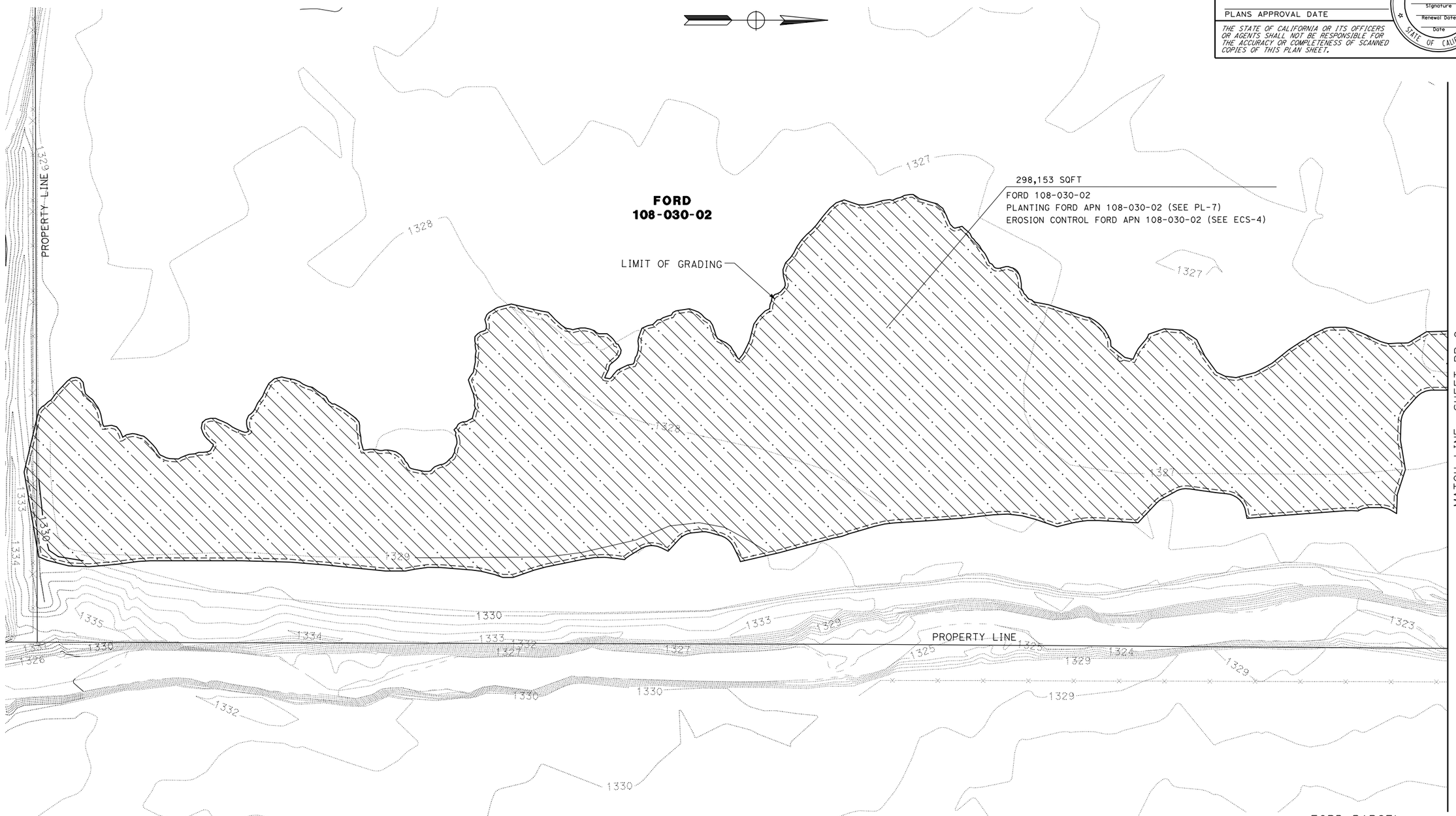

FORD PARCEL
WETLAND ESTABLISHMENT
GROUP 2 - (0.3 CREDIT)

PLANTING PLAN

SCALE: 1"=50'

PP-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 03 - LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT

CALCULATED-DESIGNED BY
CHECKED BY

REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 07:00

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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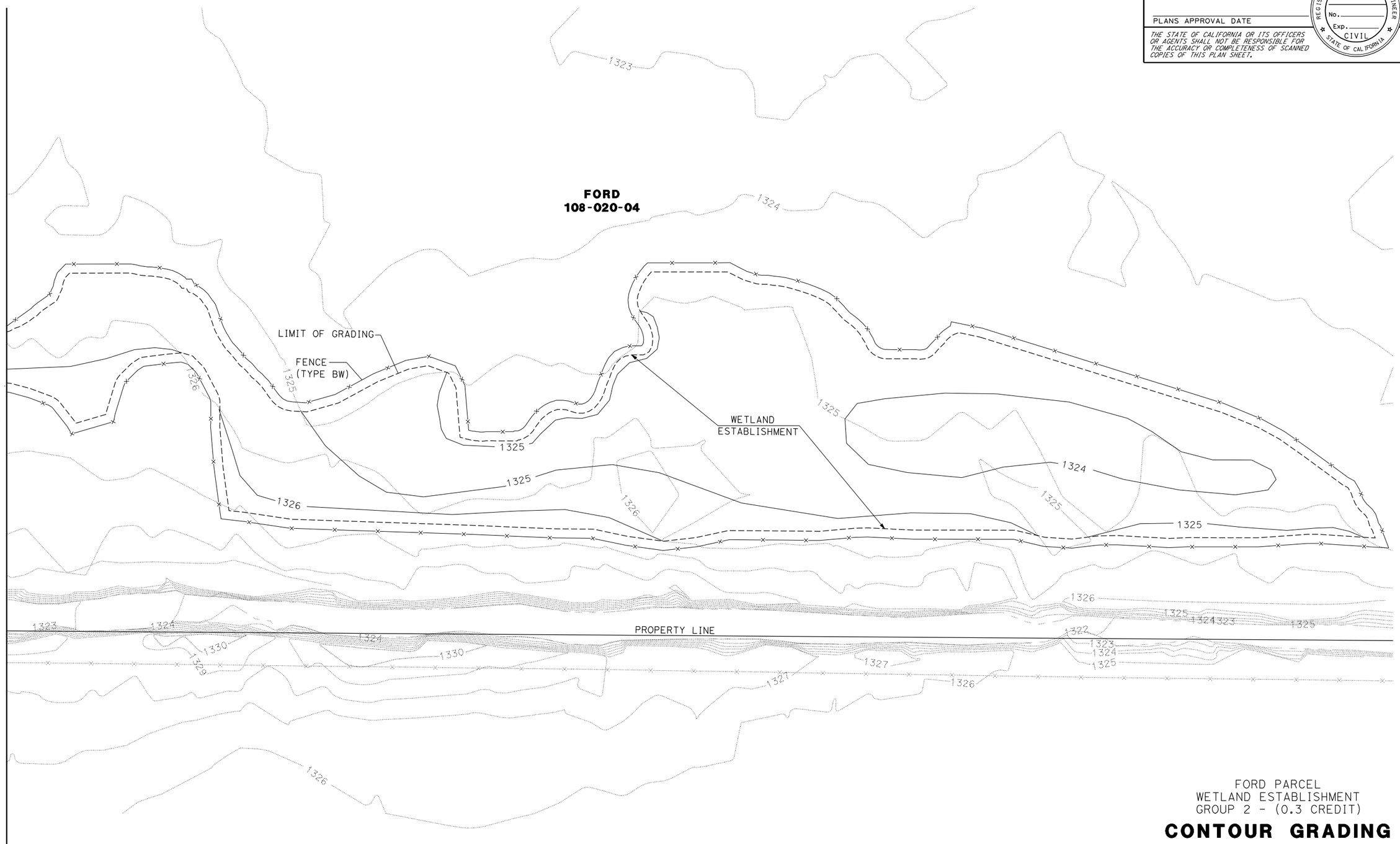

FORD PARCEL
WETLAND ESTABLISHMENT
GROUP 2 - (0.3 CREDIT)

CONTOUR GRADING

SCALE: 1"=50'

G-9

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

LAST REVISION 09-24-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 06:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

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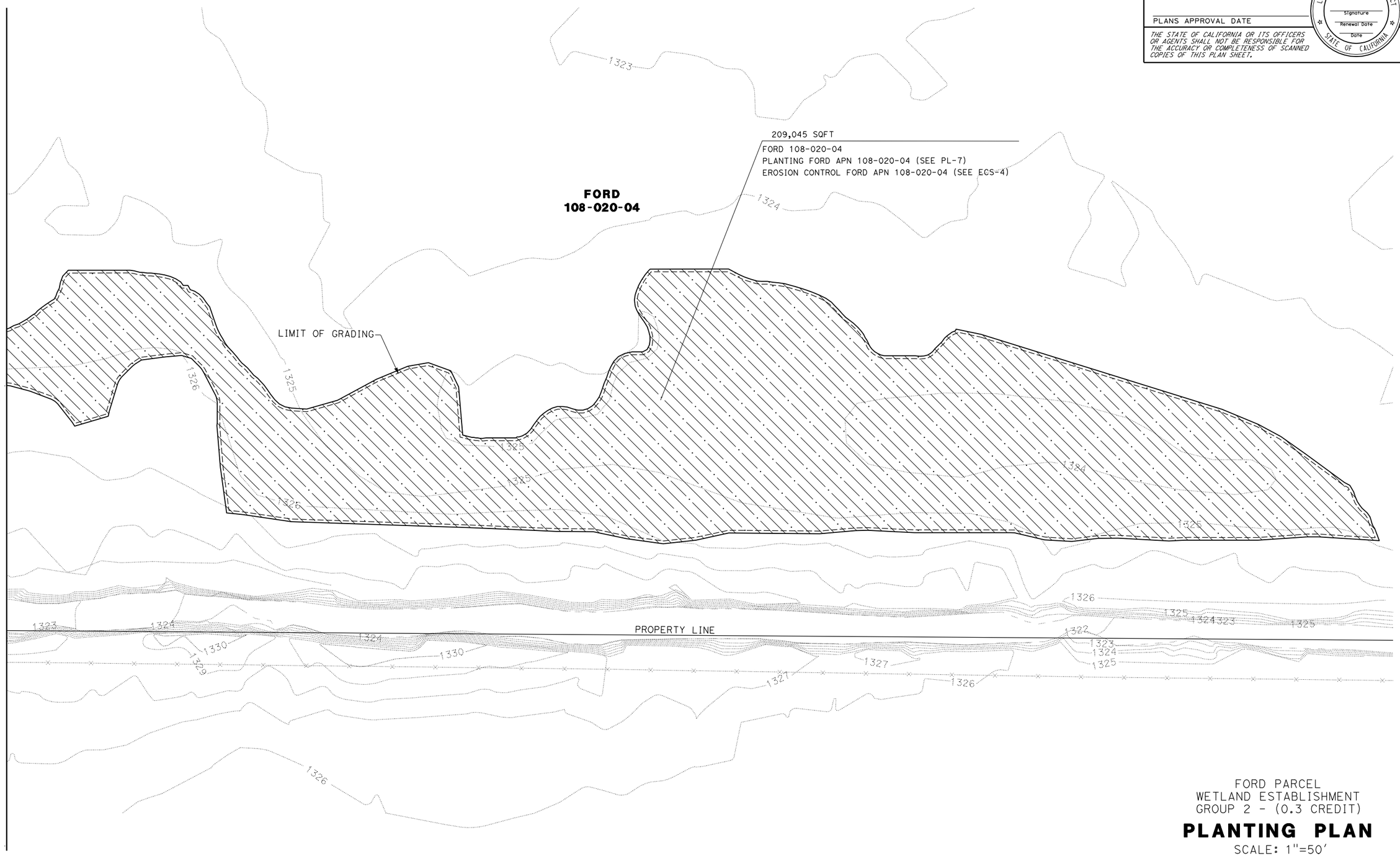

FORD PARCEL
WETLAND ESTABLISHMENT
GROUP 2 - (0.3 CREDIT)

PLANTING PLAN

SCALE: 1"=50'

PP-9

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

SENIOR LANDSCAPE ARCHITECT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® 03 - LANDSCAPE ARCHITECTURE

LAST REVISION 00-00-00 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 07:00

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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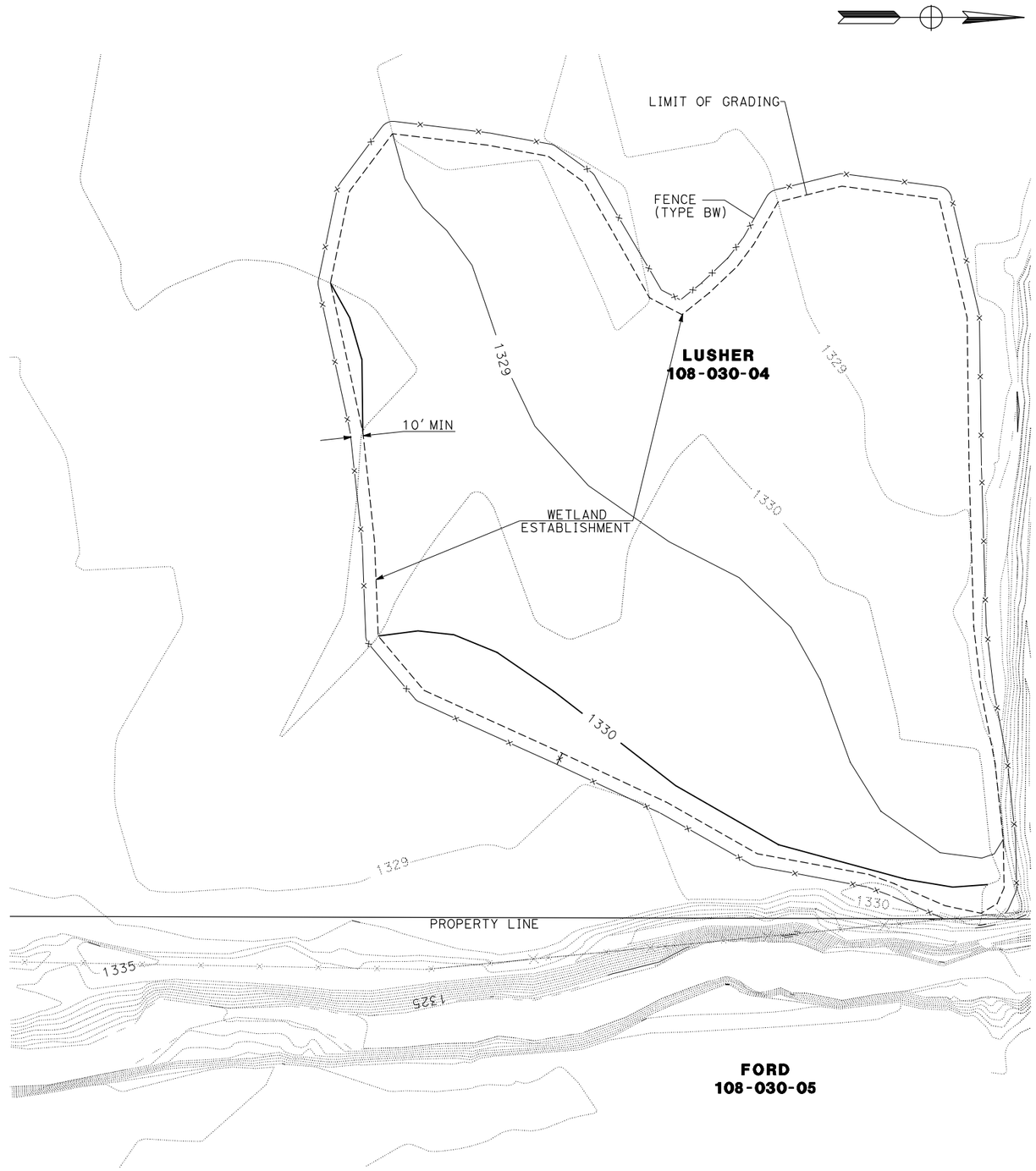

LUSHER PARCEL
WETLAND ESTABLISHMENT
GROUP 2 - (0.3 CREDIT)

CONTOUR GRADING

SCALE: 1"=50'

G-10

REVISED BY	DATE REVISED

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CHECKED BY	
FUNCTIONAL SUPERVISOR	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 03-DESIGN EAST

LAST REVISION 09-24-11
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 06:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

244,687 SQFT

LUSHER 108-030-04
PLANTING LUSHER APN 108-030-04 (SEE PL-8)
EROSION CONTROL LUSHER APN 108-030-04 (SEE ECS-5)

LUSHER PARCEL
WETLAND ESTABLISHMENT
GROUP 2 - (0.3 CREDIT)

PLANTING PLAN

SCALE: 1"=50'

PP-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 03 - LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT

CALCULATED-DESIGNED BY

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DATE REVISED

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PLANS APPROVAL DATE

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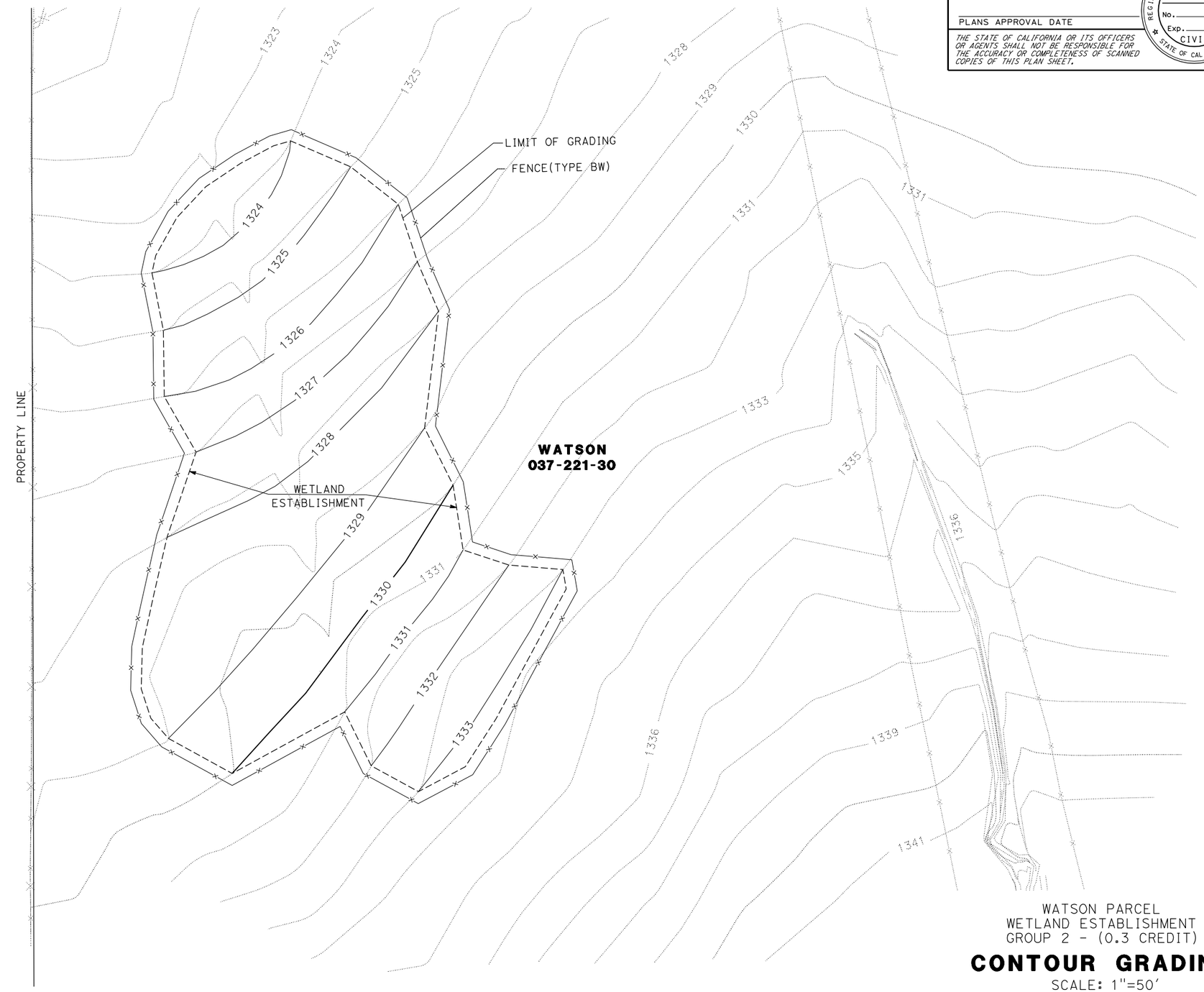

WATSON PARCEL
WETLAND ESTABLISHMENT
GROUP 2 - (0.3 CREDIT)

CONTOUR GRADING

SCALE: 1"=50'

G-11

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY
CHECKED BY
FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

LAST REVISION 09-24-11
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 06:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Signature — Renewal Date — Date — STATE OF CALIFORNIA

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WATSON PARCEL
WETLAND ESTABLISHMENT
GROUP 2 - (0.3 CREDIT)

PLANTING PLAN

SCALE: 1"=50'

PP-11

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

SENIOR LANDSCAPE ARCHITECT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® 03 - LANDSCAPE ARCHITECTURE

LAST REVISION 00-00-00 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 07:00

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01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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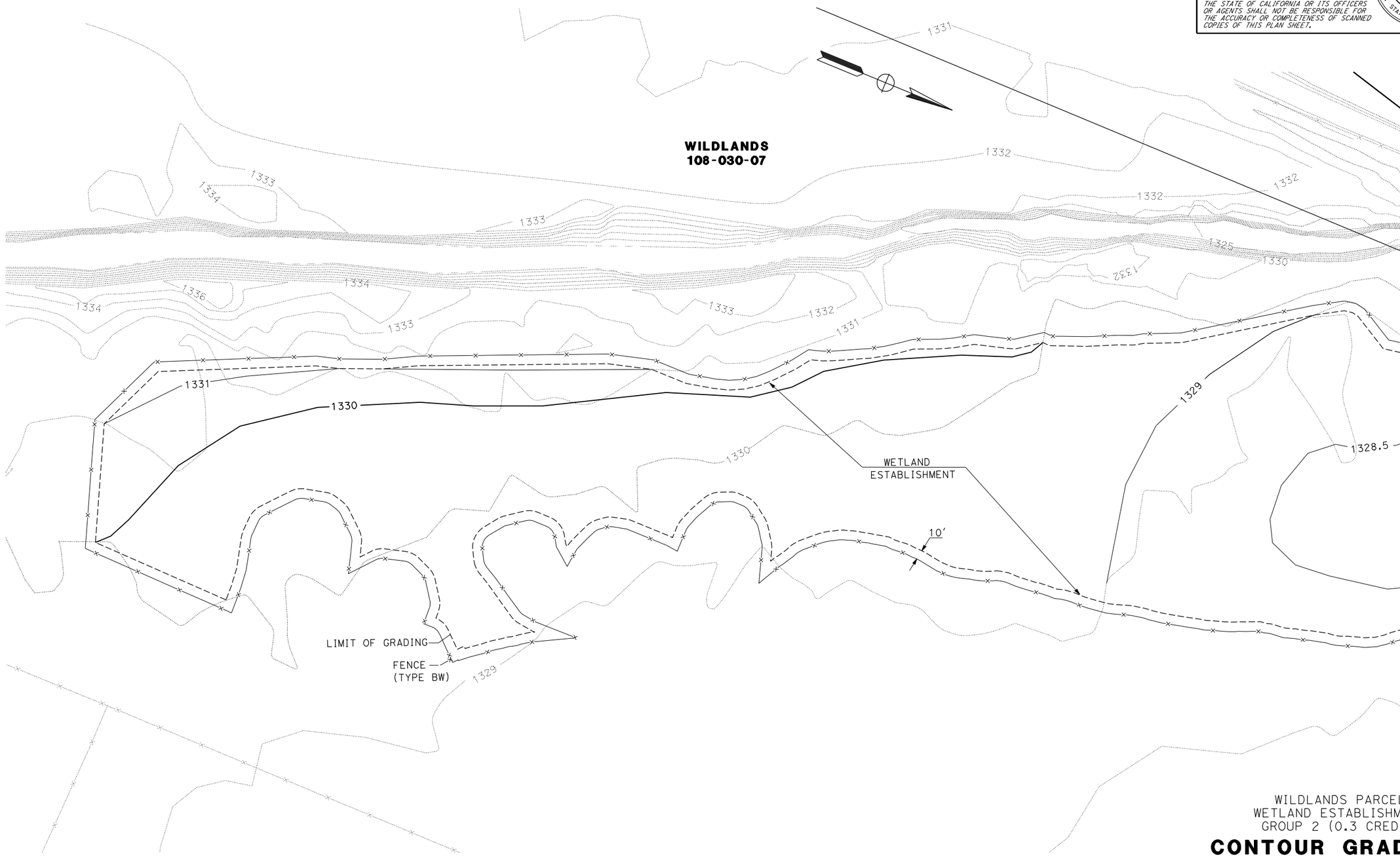

WILDLANDS PARCEL
WETLAND ESTABLISHMENT
GROUP 2 (0.3 CREDIT)

CONTOUR GRADING

SCALE: 1"=50'

G-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 03-DESIGN EAST

FUNCTIONAL SUPERVISOR
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DATE REVISED

LAST REVISION 09-24-11
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 06:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

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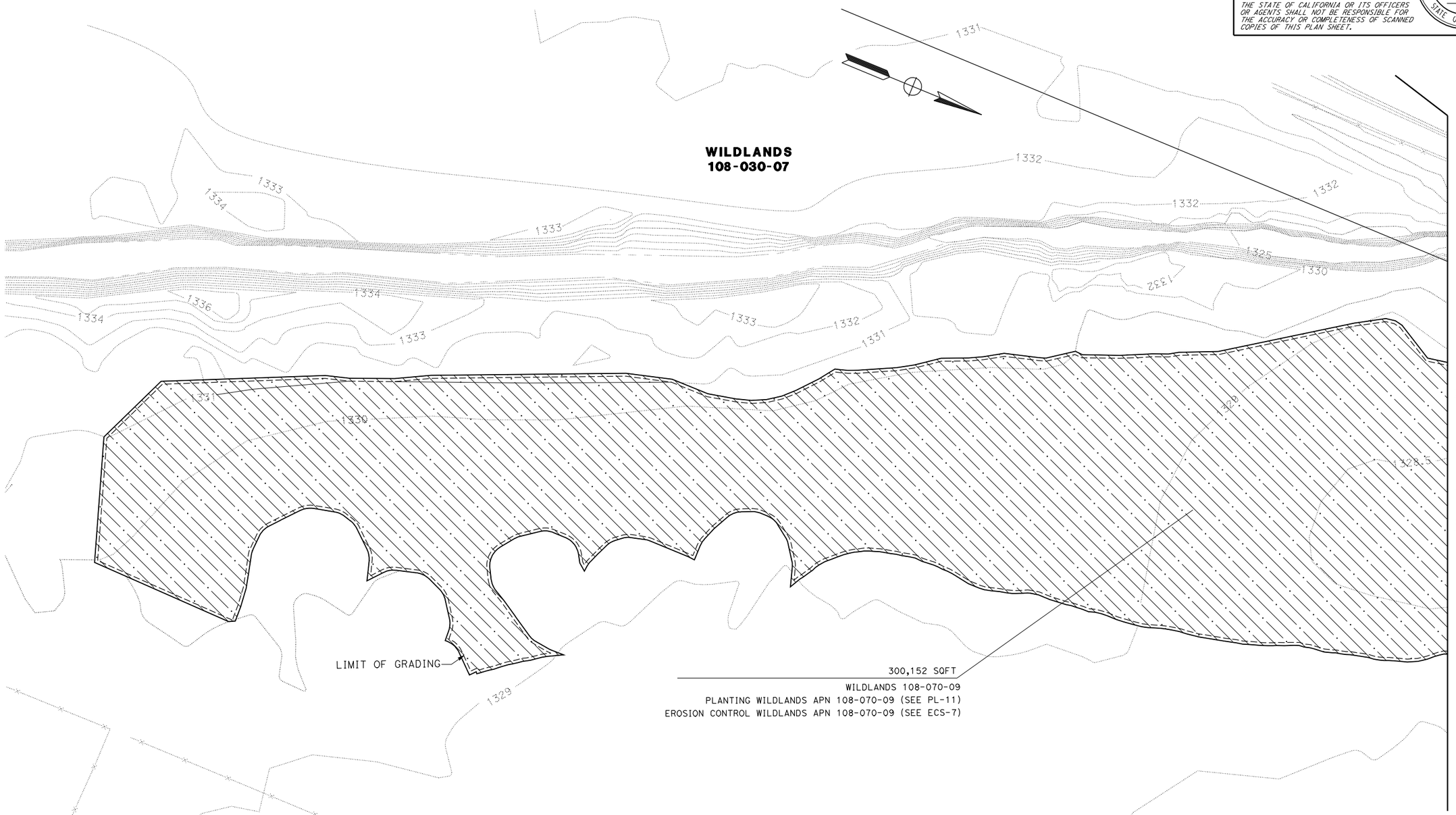

WILDLANDS PARCEL
WETLAND ESTABLISHMENT
GROUP 2 (0.3 CREDIT)

PLANTING PLAN

SCALE: 1"=50'

PP-12

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

SENIOR LANDSCAPE ARCHITECT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® 03 - LANDSCAPE ARCHITECTURE

LAST REVISION 00-00-00 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 07:00

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01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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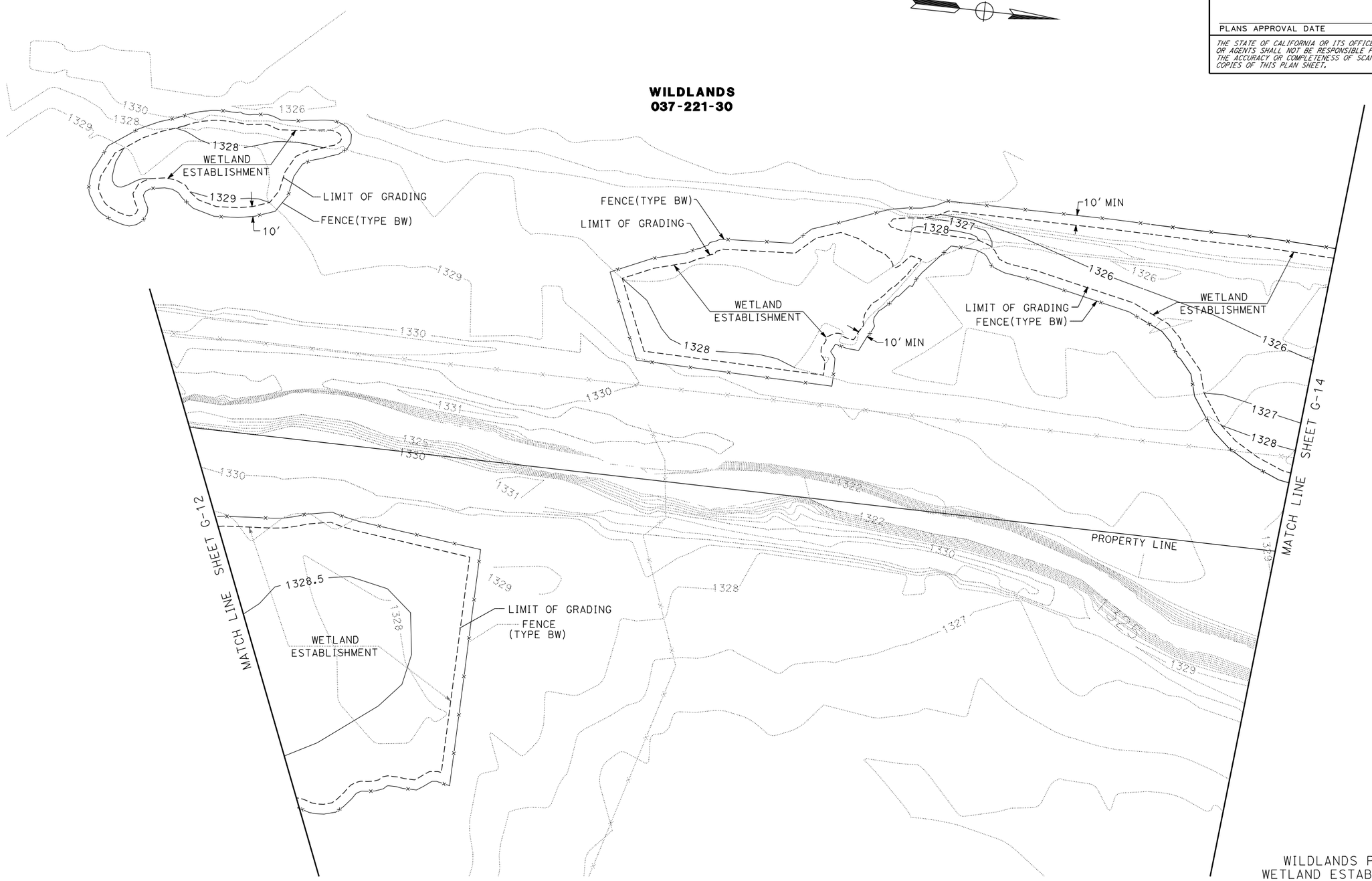

WILDLANDS PARCEL
WETLAND ESTABLISHMENT
GROUP 2 - (0.3 CREDIT)

CONTOUR GRADING

SCALE: 1"=50'

G-13

REVISED BY	DATE REVISED

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FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

LAST REVISION 09-24-11
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 06:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Signature — Renewal Date — Date — STATE OF CALIFORNIA

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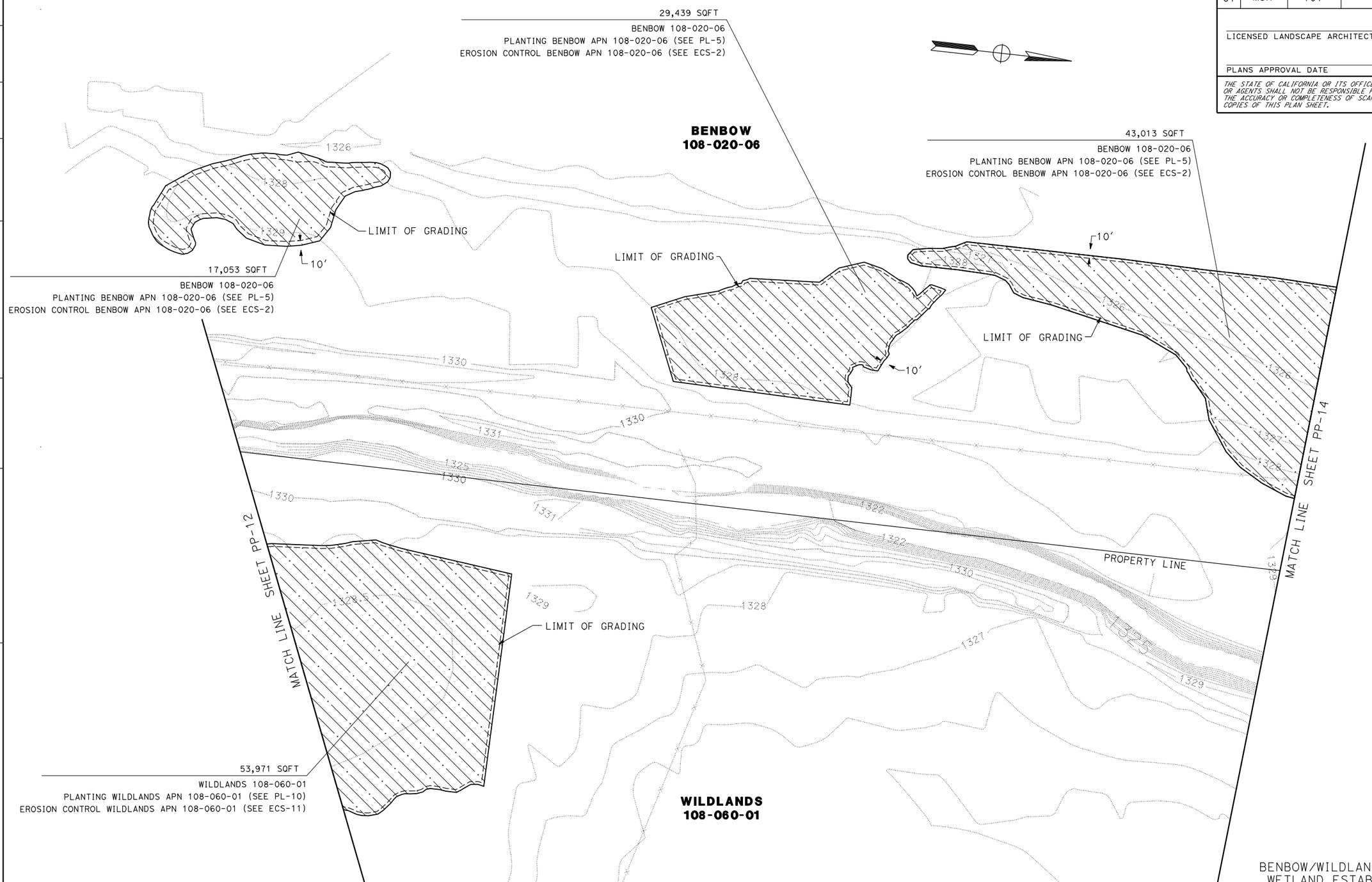

BENBOW/WILDLANDS PARCEL
WETLAND ESTABLISHMENT
GROUP 2 - (0.3 CREDIT)

PLANTING PLAN

SCALE: 1"=50′

PP-13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® 03 - LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT

CALCULATED-DESIGNED BY

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 00-00-00

DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 07:00

BORDER LAST REVISED 7/2/2010

USERNAME => s114430
DGN FILE => PP-013.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0381

PROJECT NUMBER & PHASE 01000000051

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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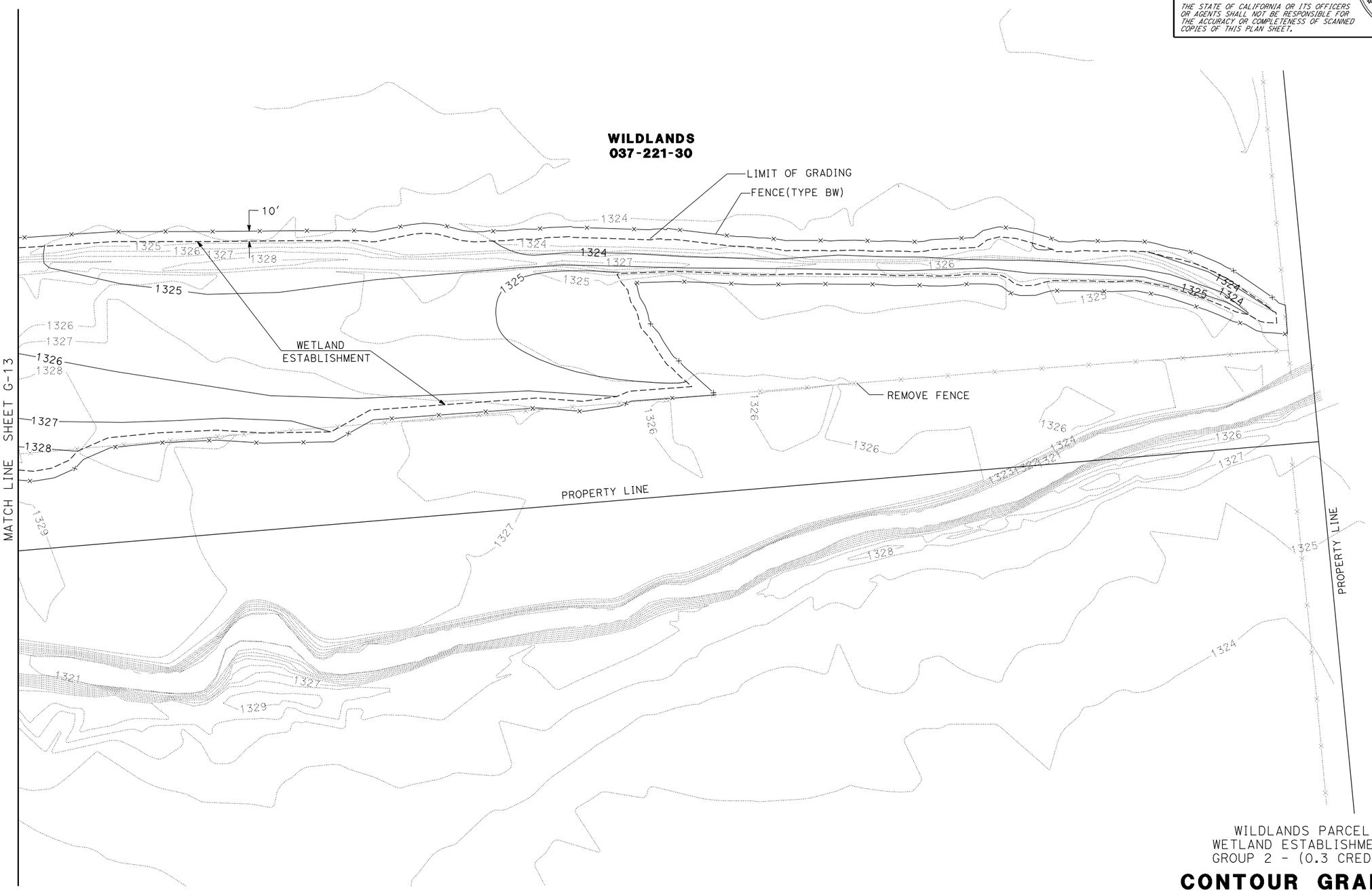

WILDLANDS PARCEL
WETLAND ESTABLISHMENT
GROUP 2 - (0.3 CREDIT)

CONTOUR GRADING

SCALE: 1"=50'

G-14

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® **03-DESIGN EAST**

LAST REVISION 09-24-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 06:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Signature — Renewal Date — Date — STATE OF CALIFORNIA

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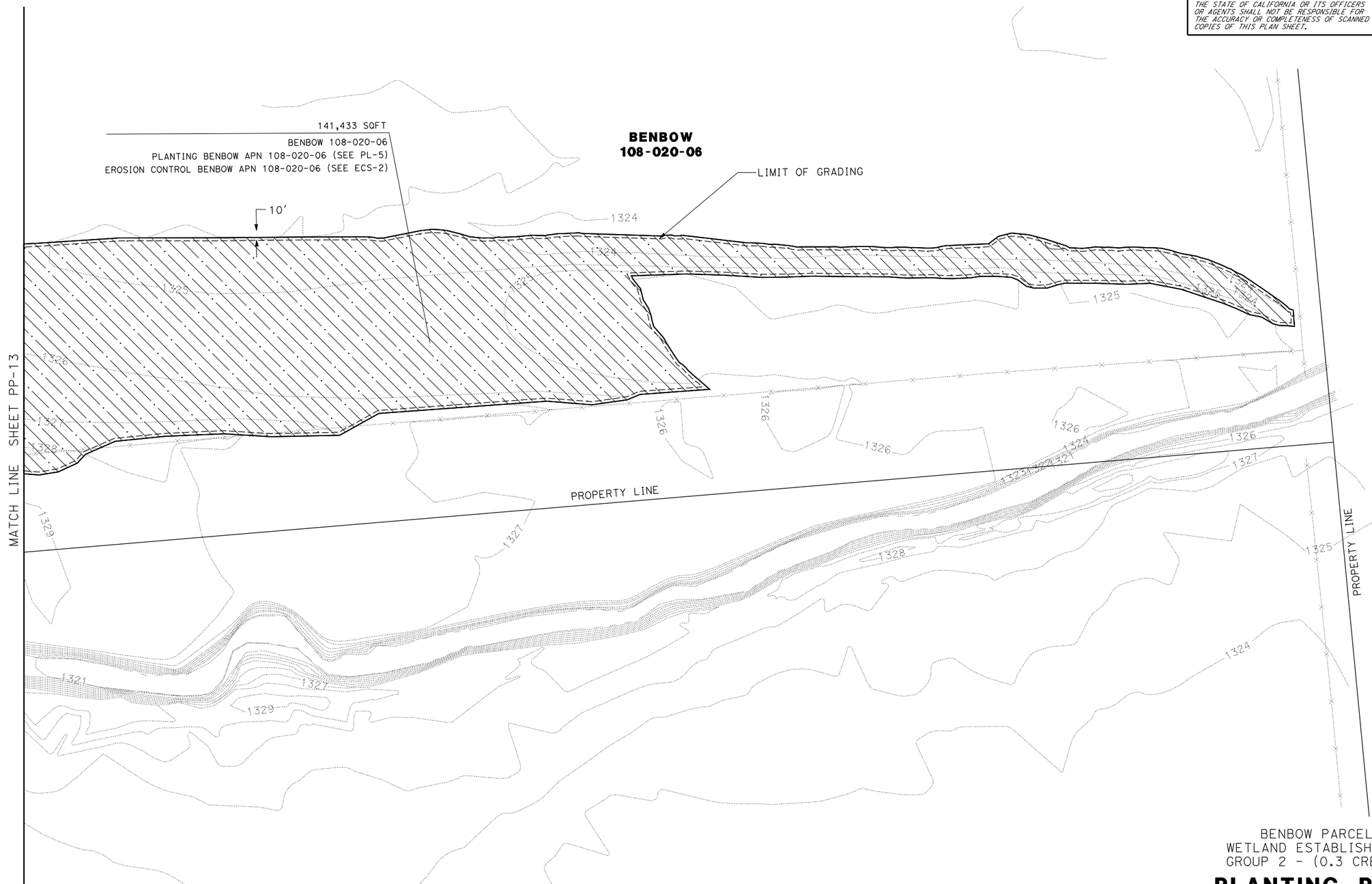

BENBOW PARCEL
WETLAND ESTABLISHMENT
GROUP 2 - (0.3 CREDIT)

PLANTING PLAN

SCALE: 1"=50'

PP-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® 03 - LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT

CALCULATED-DESIGNED BY

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 00-00-00

DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 07:00

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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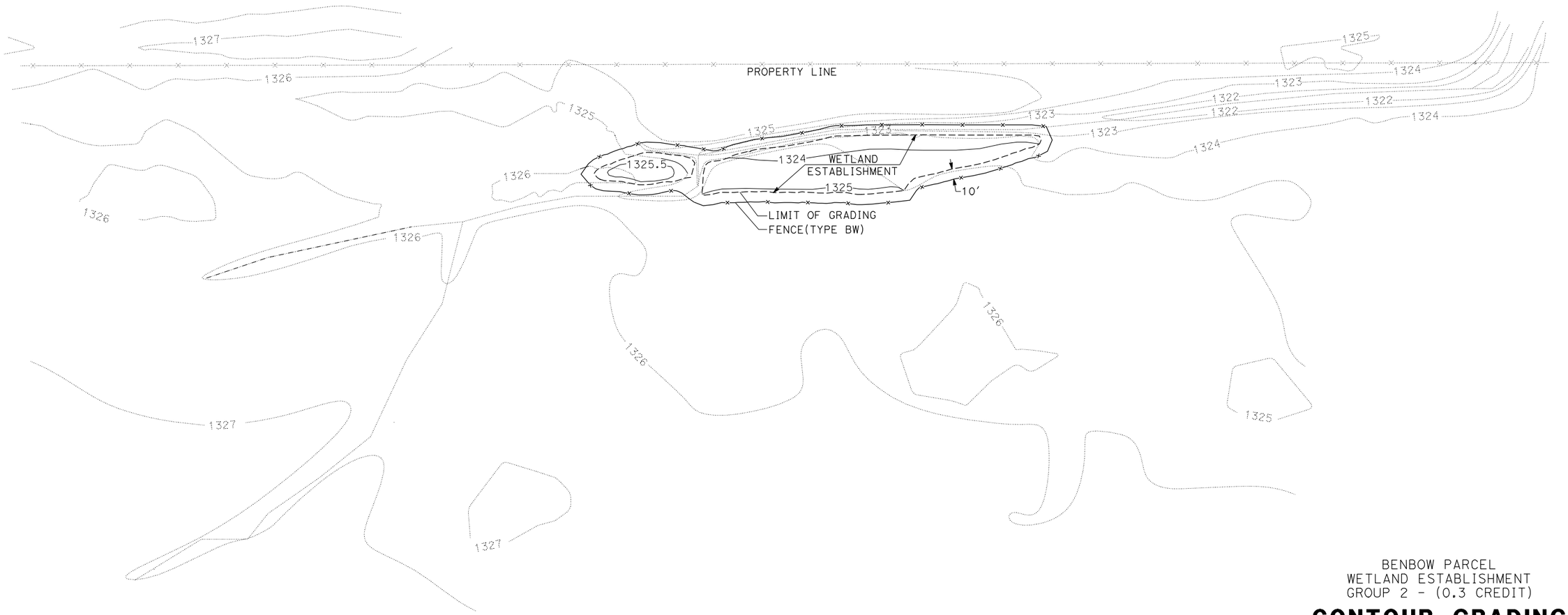
BENBOW
108-020-06



BENBOW PARCEL
WETLAND ESTABLISHMENT
GROUP 2 - (0.3 CREDIT)

CONTOUR GRADING

SCALE: 1"=50'

CONTOUR INTERVAL = 1'

G-15

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **03-DESIGN EAST**

LAST REVISION 09-24-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

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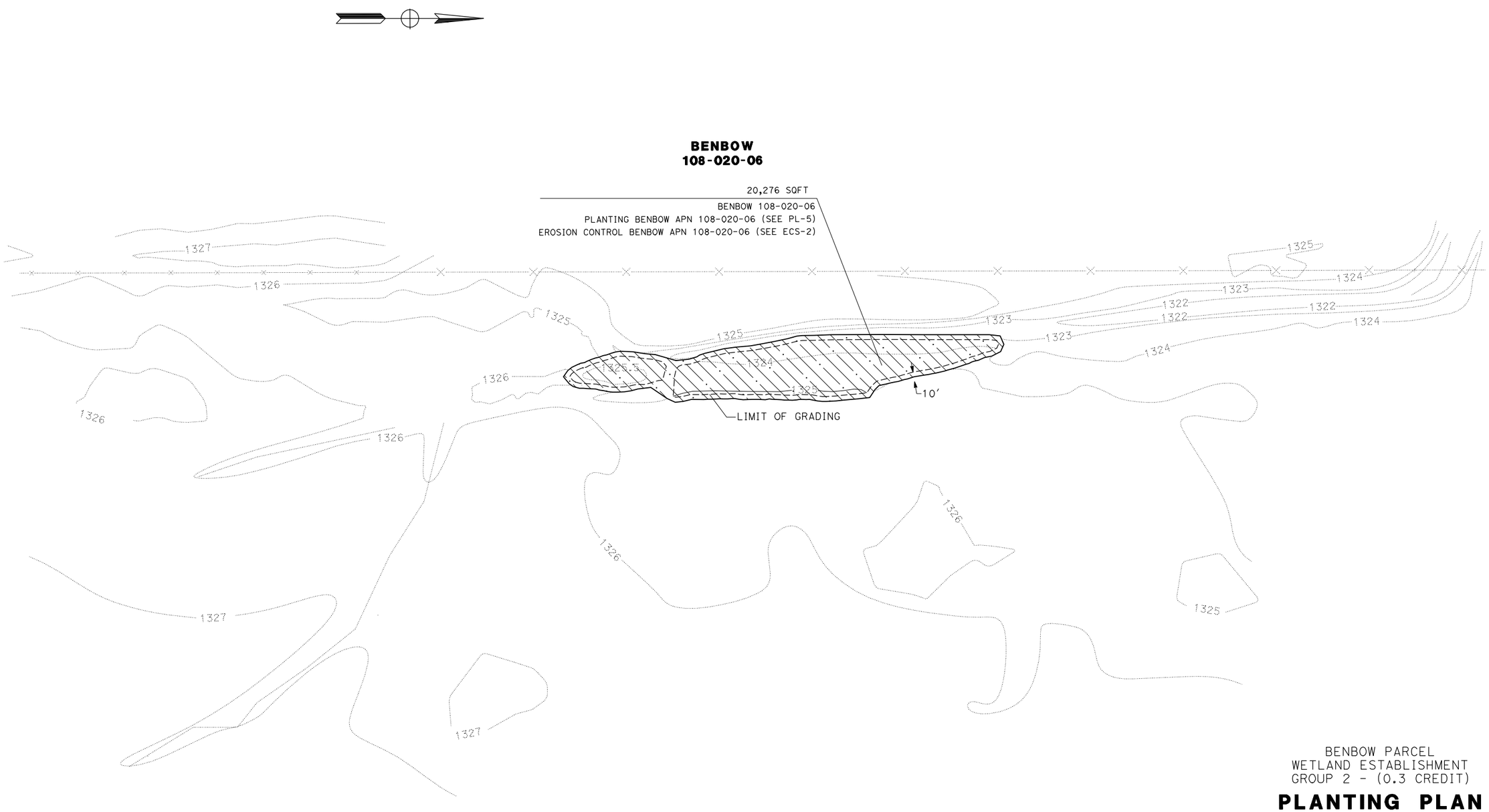

BENBOW PARCEL
WETLAND ESTABLISHMENT
GROUP 2 - (0.3 CREDIT)

PLANTING PLAN

SCALE: 1"=50'

PP-15

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

SENIOR LANDSCAPE ARCHITECT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 03 - LANDSCAPE ARCHITECTURE

LAST REVISION 00-00-00 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:07

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

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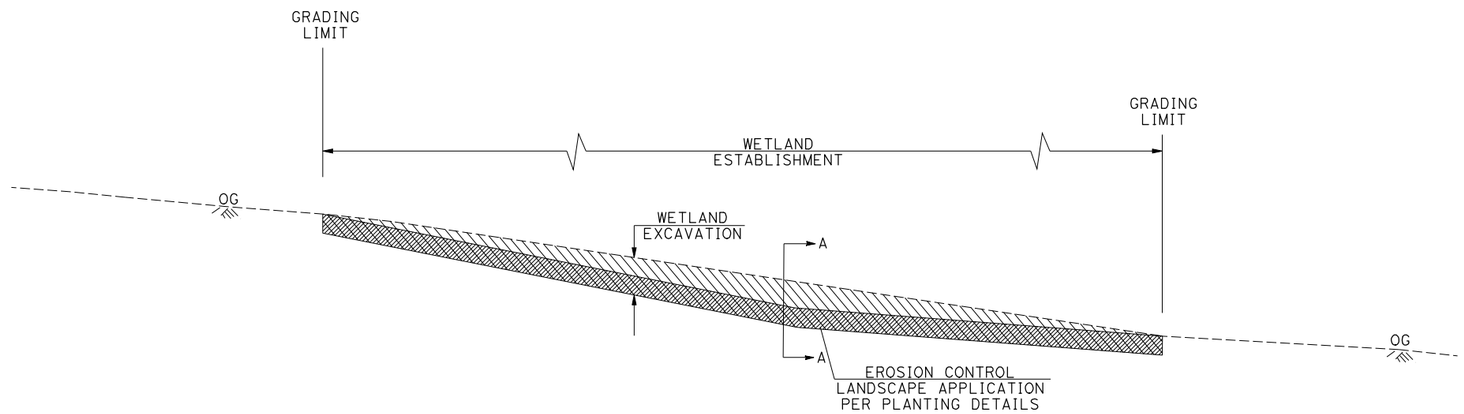
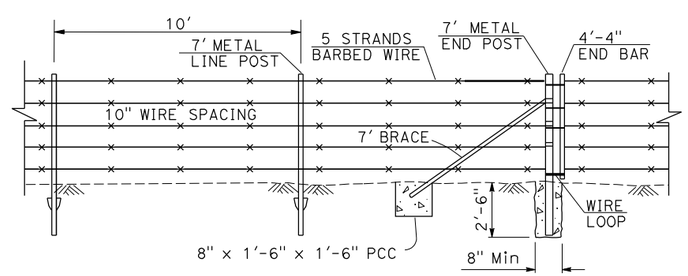
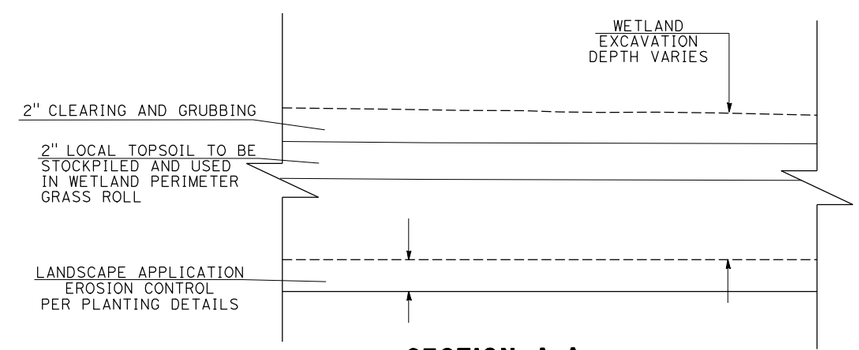


TYPICAL SECTION
WETLAND ESTABLISHMENT



FENCE (TYPE BW)



SECTION A-A

GRADING DETAILS
WETLAND ESTABLISHMENT

CONTOUR GRADING DETAILS

NOT TO SCALE

GD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY

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REVISED BY | DATE REVISED

LAST REVISION 09-24-11

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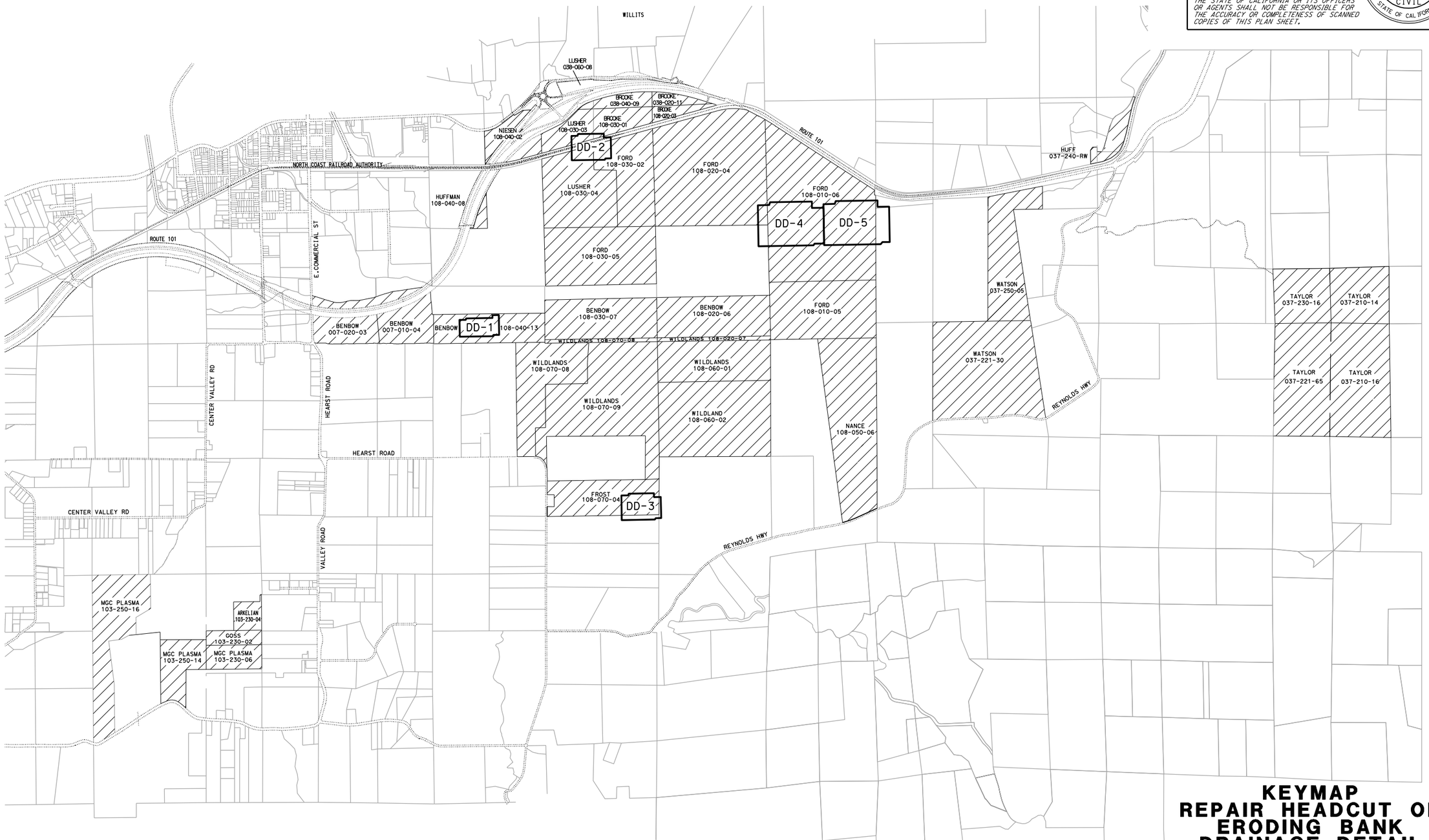
NOTES:

1. FOR COMPLETE PROPERTY BOUNDARY DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. LOCATION TO BE DETERMINED BY ENGINEER.



KEYMAP
REPAIR HEADCUT OR ERODING BANK DRAINAGE DETAIL

NO SCALE

K-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans®

03-DESIGN EAST

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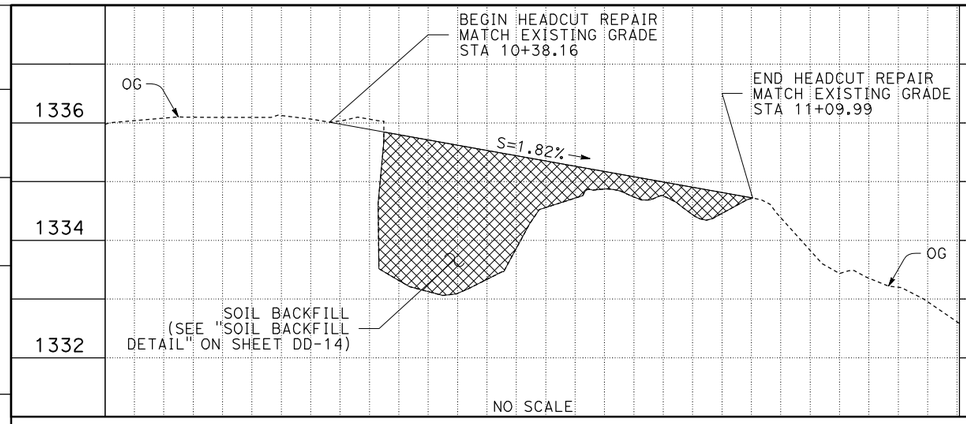
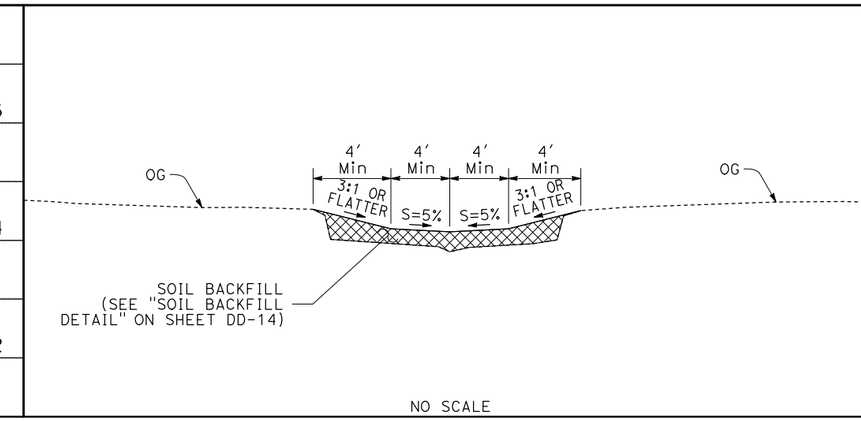
DATE REVISED

LAST REVISION 09-24-11

DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 07:36





Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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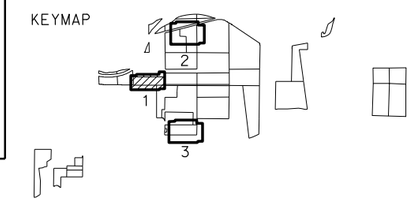
KEYMAP



NOTES:
1. SEE LAYOUT SHEET L-6 FOR DETAILS NOT SHOWN.
2. SEE DRAINAGE DETAIL SHEET DD-14 FOR DETAILS NOT SHOWN.

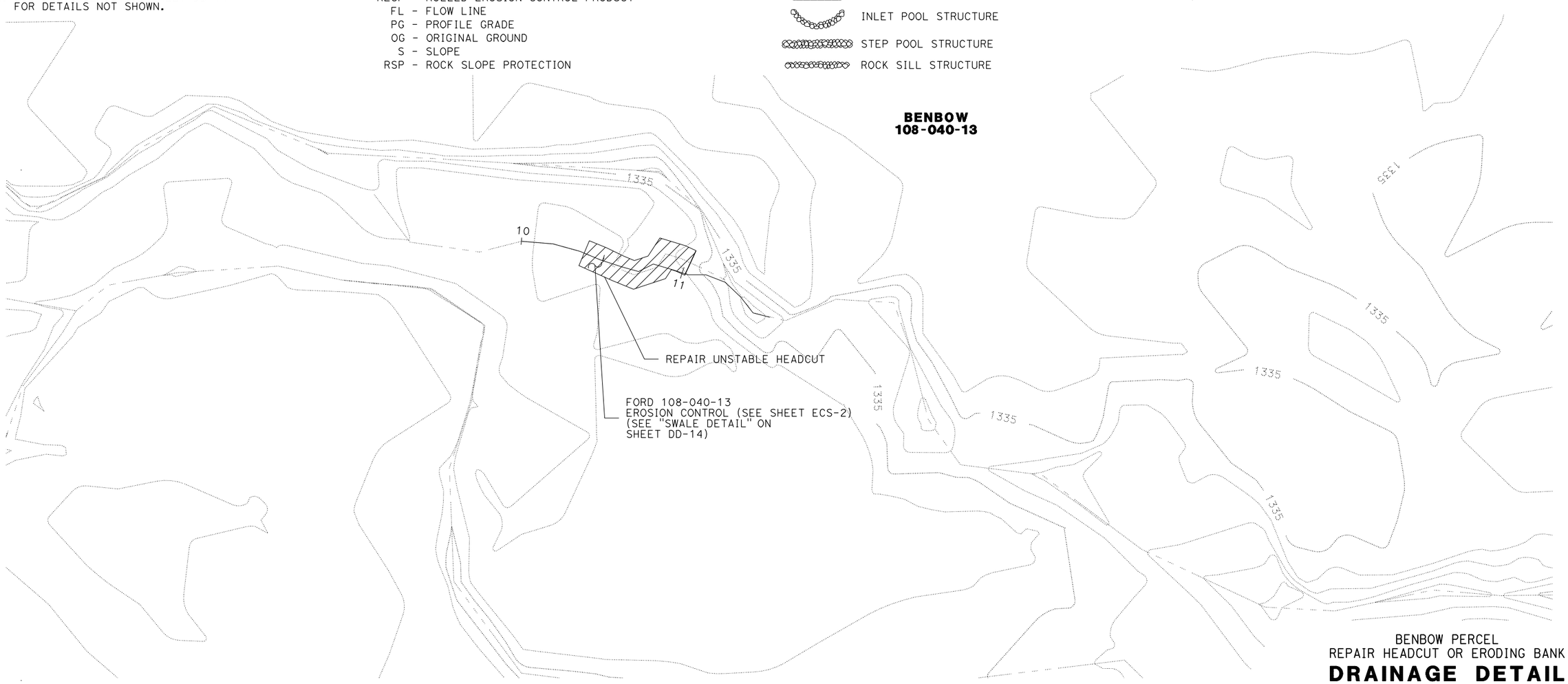
ABBREVIATIONS

ECC(BFM) - EROSION CONTROL (BONDED FIBER MATIX)
RECP - ROLLED EROSION CONTROL PRODUCT
FL - FLOW LINE
PG - PROFILE GRADE
OG - ORIGINAL GROUND
S - SLOPE
RSP - ROCK SLOPE PROTECTION

LEGEND

SOIL BACKFILL
INLET POOL STRUCTURE
STEP POOL STRUCTURE
ROCK SILL STRUCTURE

BENBOW
108-040-13



BENBOW PERCEL
REPAIR HEADCUT OR ERODING BANK

DRAINAGE DETAIL

SCALE: 1"=30′

DD-1

THIS PLAN ACCURATE FOR DRAINAGE WORK ONLY.

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Caltrans
03-DESIGN EAST

LAST REVISION 10-02-11 | DATE PLOTTED => 02-OCT-2011 | TIME PLOTTED => 12:51

NOTES:
1. SEE LAYOUT SHEETS L-7, L-8, & L-9 FOR DETAILS NOT SHOWN.
2. SEE DRAINAGE DETAIL SHEETS DD-14, & DD-15 FOR DETAILS NOT SHOWN.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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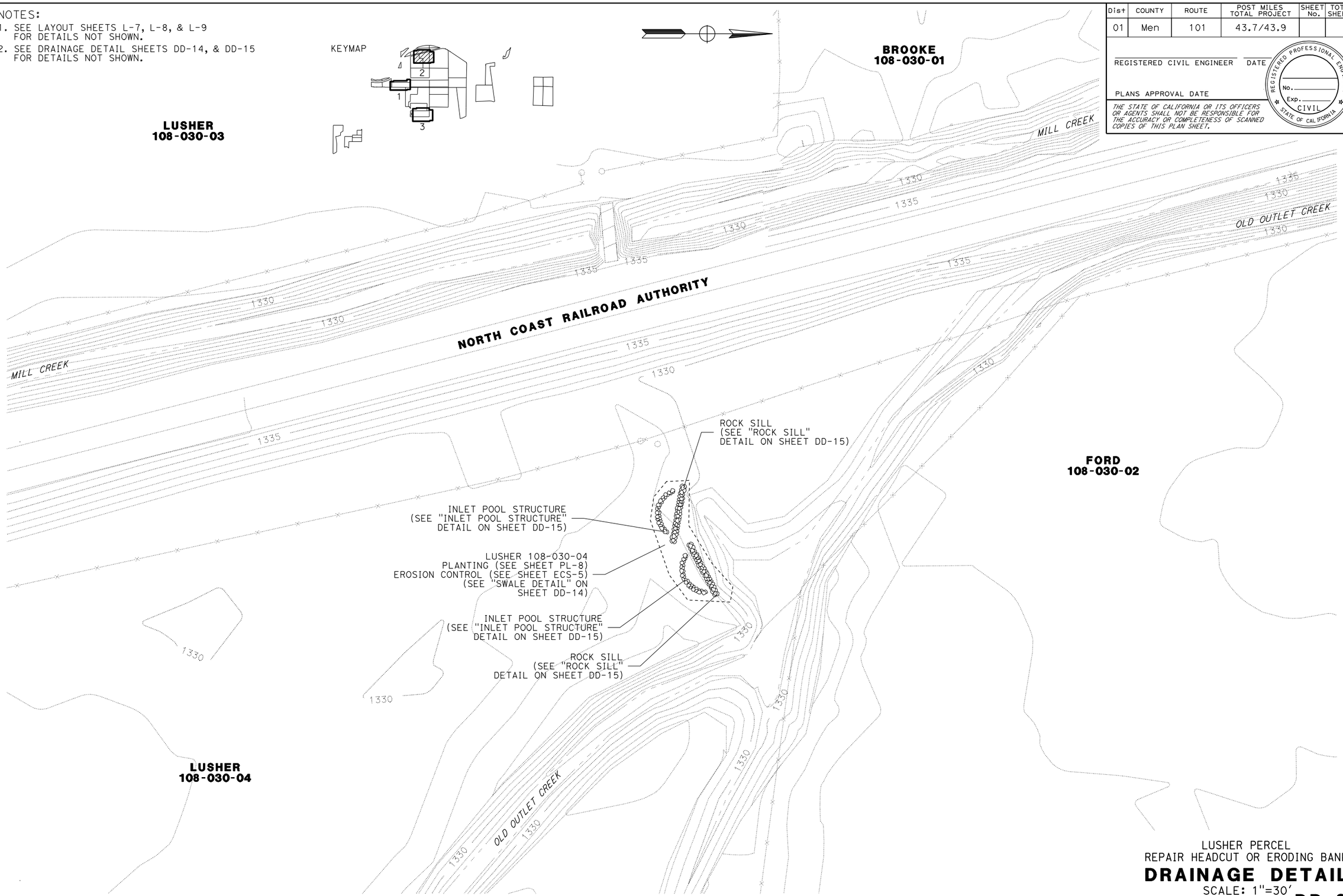

THIS PLAN ACCURATE FOR DRAINAGE WORK ONLY.

LUSHER PERCEL
REPAIR HEADCUT OR ERODING BANK

DRAINAGE DETAIL

SCALE: 1"=30'

DD-2

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TIME PLOTTED => 12:51

COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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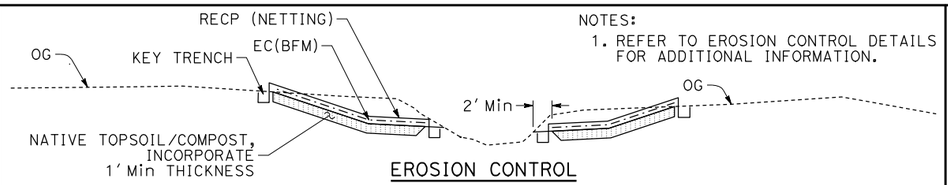
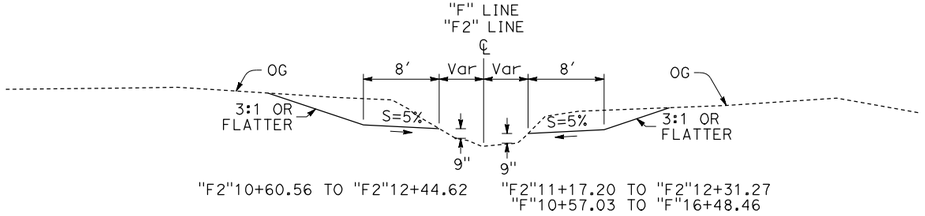
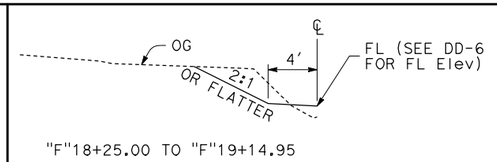


NOTES:
1. REFER TO EROSION CONTROL DETAILS FOR ADDITIONAL INFORMATION.

EROSION CONTROL

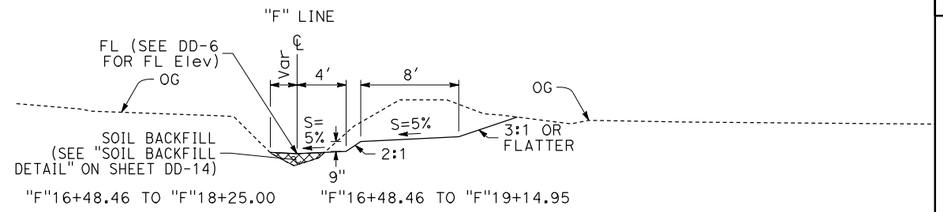


TYPICAL CROSS SECTION
(WITHOUT SOIL BACKFILL)
NO SCALE



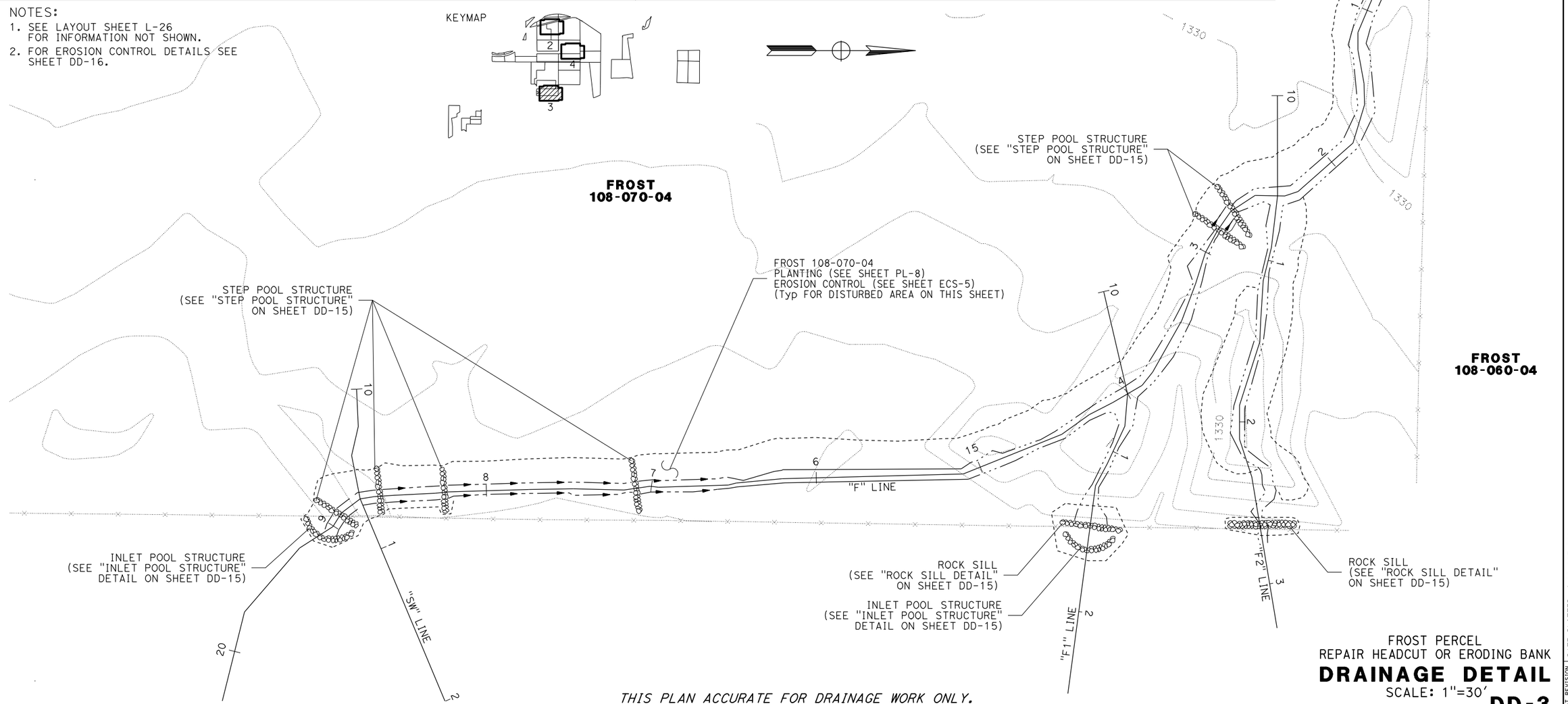
NOTES:
1. REFER TO "SWALE DETAIL" ON SHEET DD-14 FOR ADDITIONAL INFORMATION.

BANK GRADING DETAIL
NO SCALE



TYPICAL CROSS SECTION
(WITH SOIL BACKFILL)
NO SCALE

NOTES:
1. SEE LAYOUT SHEET L-26 FOR INFORMATION NOT SHOWN.
2. FOR EROSION CONTROL DETAILS SEE SHEET DD-16.



THIS PLAN ACCURATE FOR DRAINAGE WORK ONLY.

FROST PERCEL
REPAIR HEADCUT OR ERODING BANK

DRAINAGE DETAIL

SCALE: 1"=30'

DD-3

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NOTES:

1. SEE LAYOUT SHEETS L-13 & L-14 FOR DETAILS NOT SHOWN.
2. SEE DRAINAGE DETAIL SHEETS DD-11, & DD-12 FOR DETAILS NOT SHOWN.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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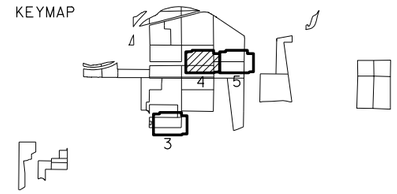
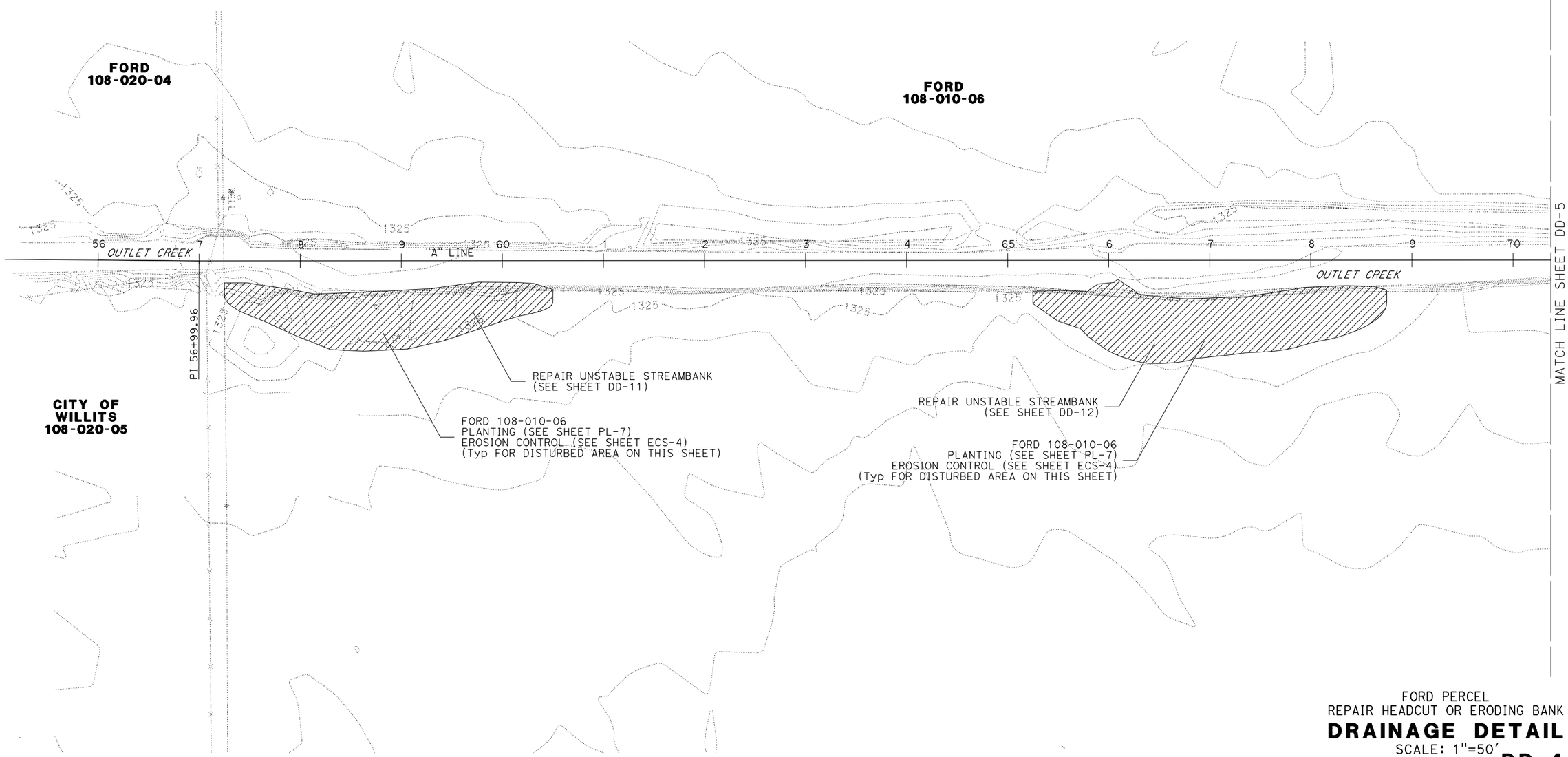
KEYMAP





FORD PERCEL
REPAIR HEADCUT OR ERODING BANK

DRAINAGE DETAIL

SCALE: 1"=50'

DD-4

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® 03-DESIGN EAST

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NOTES:
1. SEE LAYOUT SHEET L-14 FOR DETAILS NOT SHOWN.
2. SEE DRAINAGE DETAIL SHEETS DD-13 FOR DETAILS NOT SHOWN.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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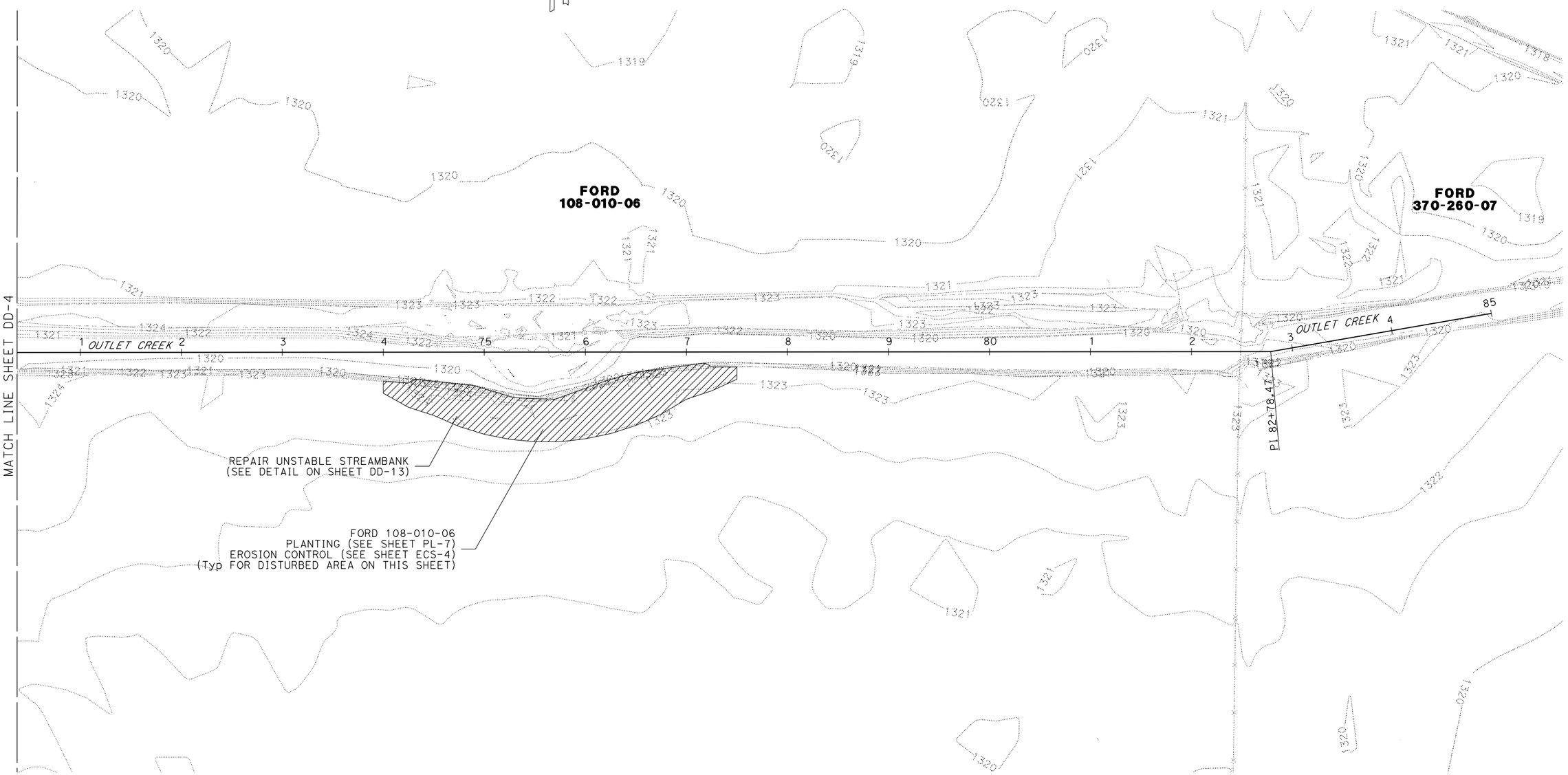
KEYMAP



FORD PERCEL
REPAIR HEADCUT OR ERODING BANK

DRAINAGE DETAIL

SCALE: 1"=50'

DD-5

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LAST REVISION 10-02-11 | DATE PLOTTED => 02-OCT-2011 TIME PLOTTED => 12:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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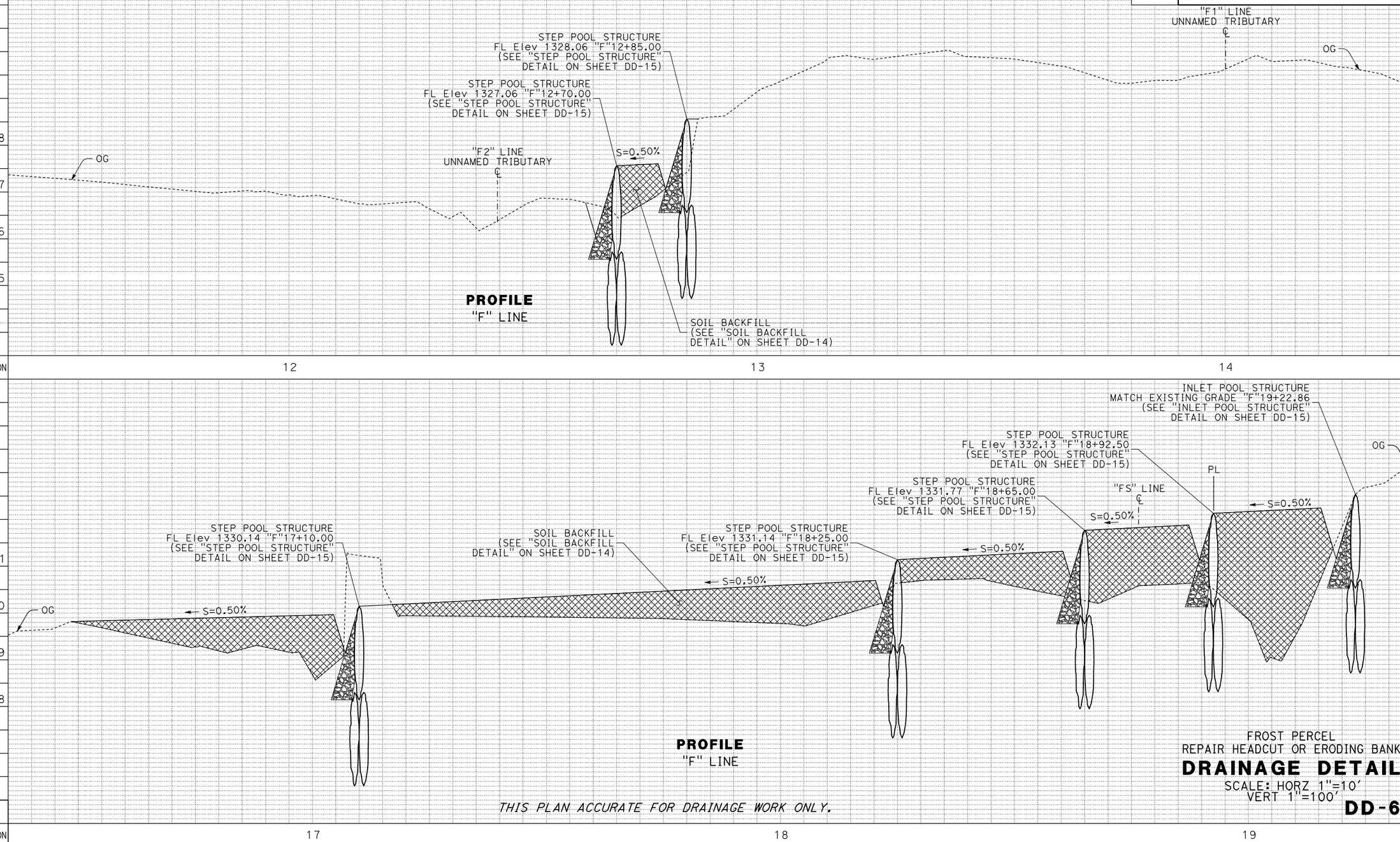
NOTES:
1. FOR DRAINAGE PLAN VIEW SEE DD-3.
2. LOCATIONS TO BE DETERMINED BY ENGINEER.



PROFILE
"F" LINE

THIS PLAN ACCURATE FOR DRAINAGE WORK ONLY.

FROST PERCEL
REPAIR HEADCUT OR ERODING BANK

DRAINAGE DETAIL

SCALE: HORZ 1"=10'
VERT 1"=100'

DD-6

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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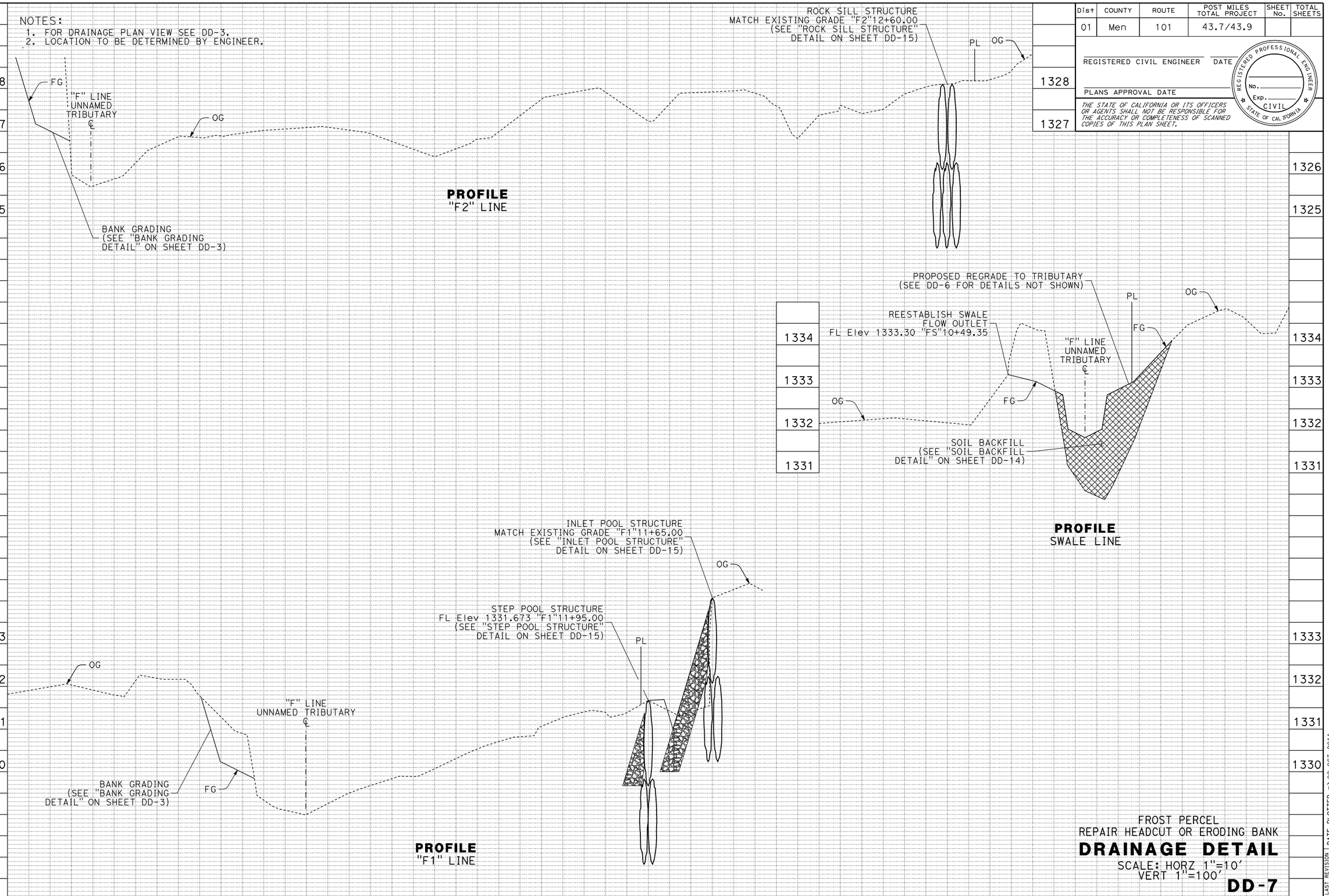
NOTES:
1. FOR DRAINAGE PLAN VIEW SEE DD-3.
2. LOCATION TO BE DETERMINED BY ENGINEER.



FROST PERCEL
REPAIR HEADCUT OR ERODING BANK

DRAINAGE DETAIL

SCALE: HORZ 1"=10'
VERT 1"=100'

DD-7

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03-DESIGN EAST

LAST REVISION 10-02-11
DATE PLOTTED => 02-OCT-2011
TIME PLOTTED => 12:51

NOTES:
1. FOR DRAINAGE PLAN VIEW, SEE SHEET DD-4.
2. FOR DRAINAGE DETAIL NOT SHOWN, SEE SHEET DD-11, & DD-14.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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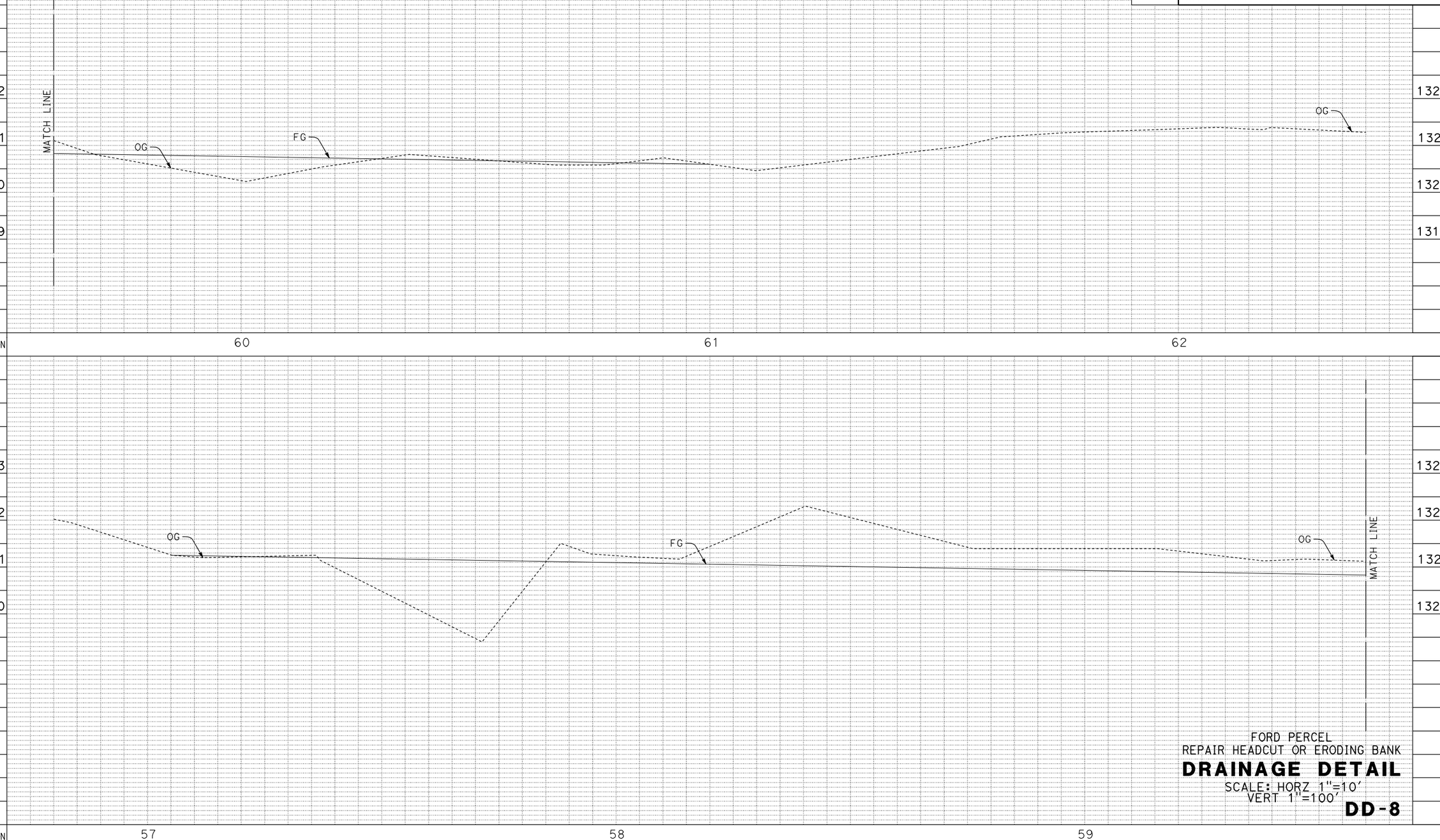

FORD PERCEL
REPAIR HEADCUT OR ERODING BANK

DRAINAGE DETAIL

SCALE: HORZ 1"=10'
VERT 1"=100'

DD-8

REVISED BY | DATE REVISED

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03-DESIGN EAST

LAST REVISION 10-02-11 | DATE PLOTTED => 02-OCT-2011 TIME PLOTTED => 12:51

NOTES:
1. FOR DRAINAGE PLAN VIEW, SEE SHEET DD-4.
2. FOR DRAINAGE DETAIL NOT SHOWN, SEE SHEET DD-12, & DD-14.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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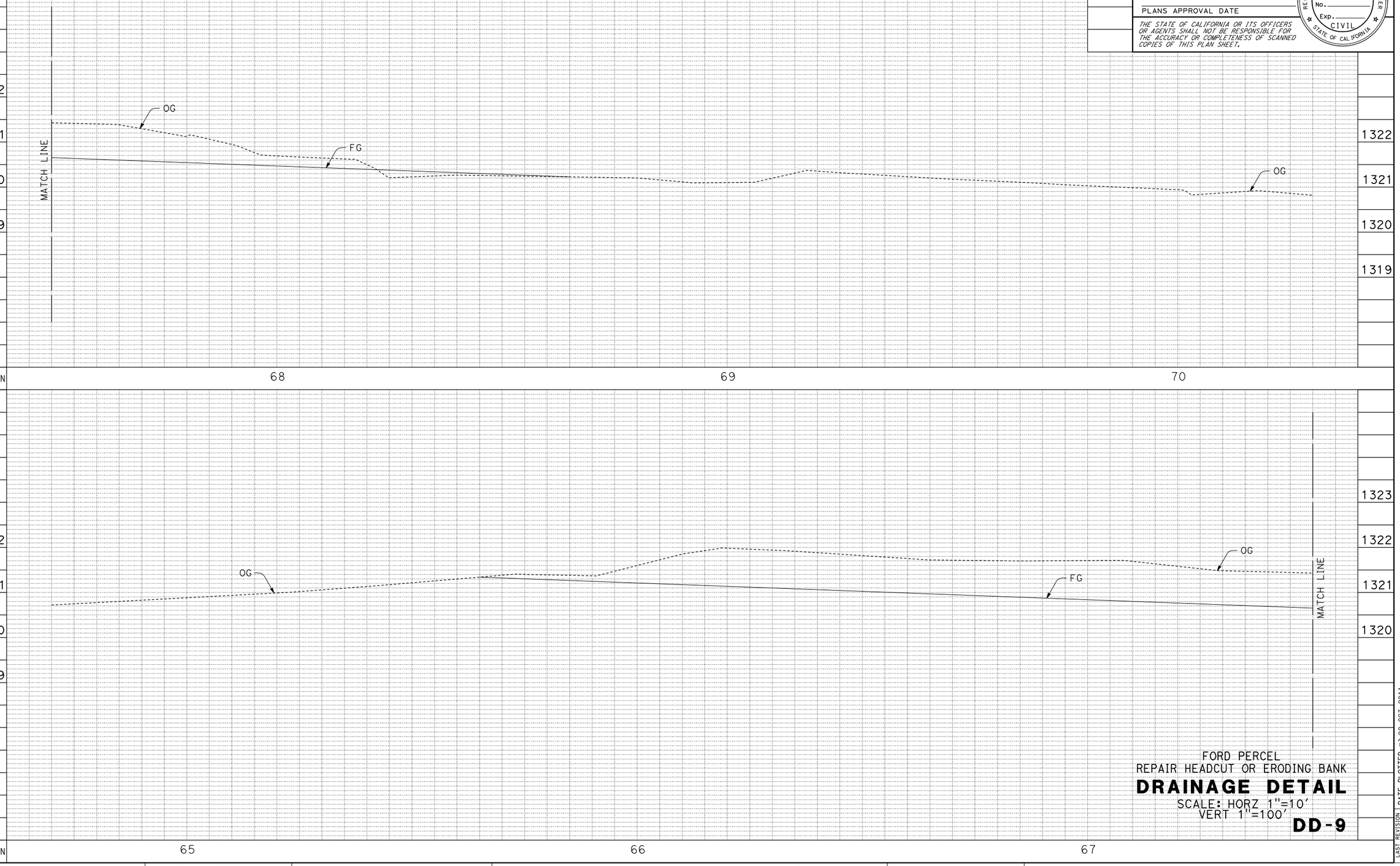

FORD PERCEL
REPAIR HEADCUT OR ERODING BANK

DRAINAGE DETAIL

SCALE: HORZ 1"=10'
VERT 1"=100'

DD-9

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NOTES:
1. FOR DRAINAGE PLAN VIEW, SEE SHEET DD-5.
2. FOR DRAINAGE DETAIL NOT SHOWN, SEE SHEET DD-13, & DD-14.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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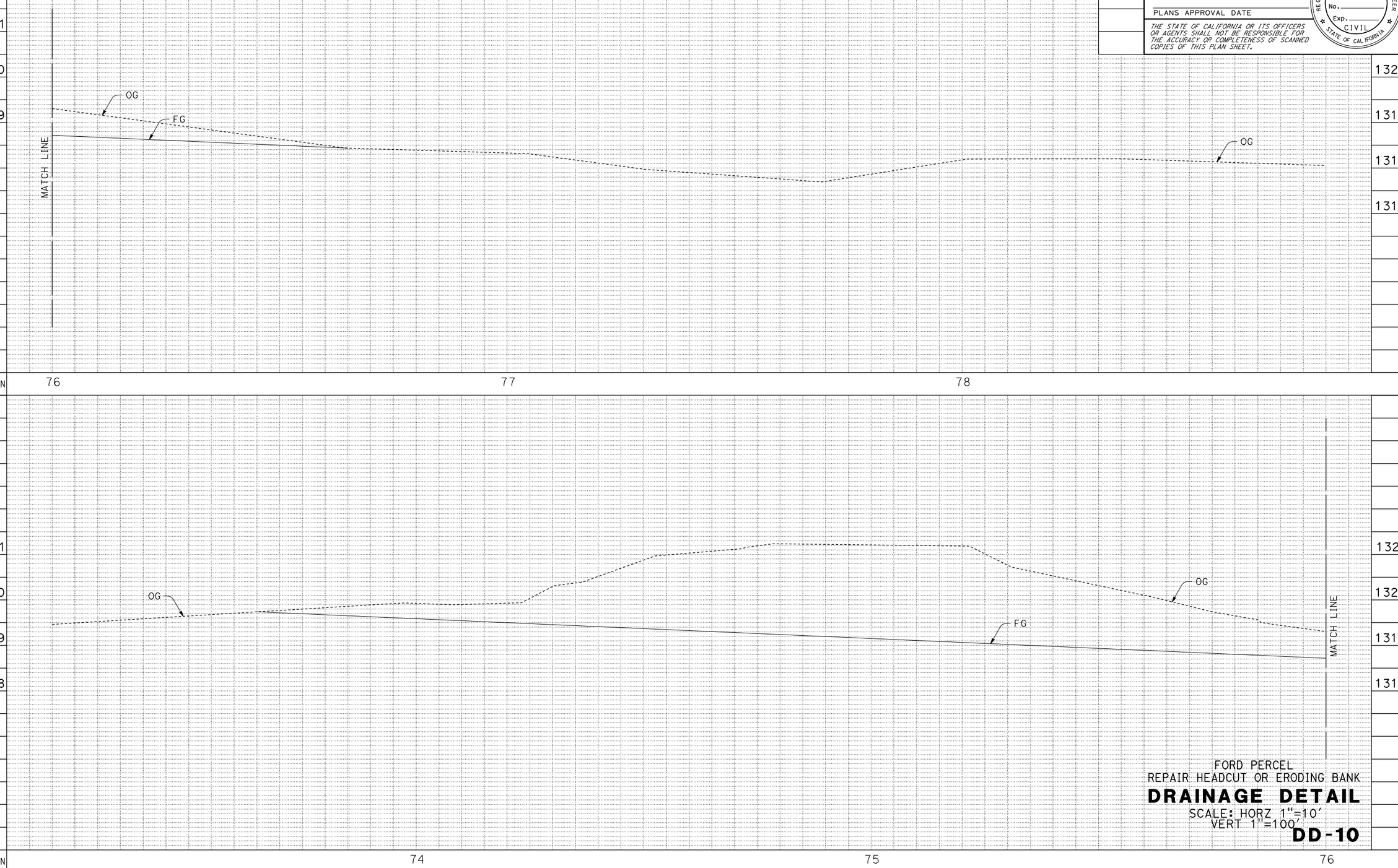

FORD PERCEL
REPAIR HEADCUT OR ERODING BANK

DRAINAGE DETAIL

SCALE: HORZ 1"=10'
VERT 1"=100'

DD-10

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NOTES:

1. SEE LAYOUT SHEETS L-13 & L-14 FOR INFORMATION NOT SHOWN.
2. SEE EROSION RESTORATION SHEETS DD-16, DD-17 & DD-18 FOR DETAILS NOT SHOWN.
3. ROOTWADS ARE ORIENTED/ANGLED TO DEFLECT FLOWS IN A DEFINED FLOWLINE OR PATH.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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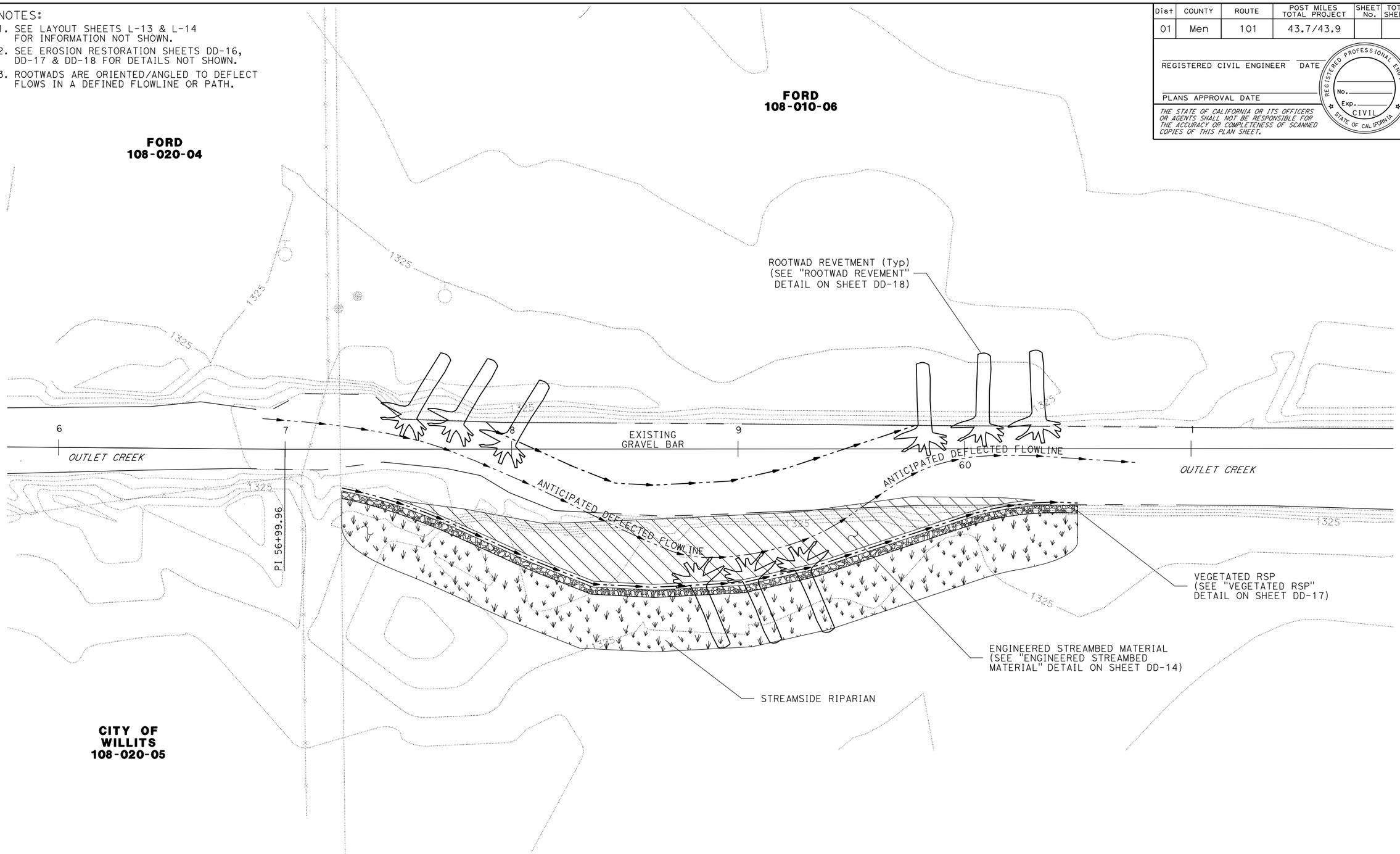

FORD PERCEL
REPAIR HEADCUT OR ERODING BANK

DRAINAGE DETAIL

SCALE: 1"=20'

DD-11

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TIME PLOTTED => 12:51

NOTES:
1. SEE LAYOUT SHEETS L-13 FOR INFORMATION NOT SHOWN.
2. SEE EROSION RESTORATION SHEETS DD-16, DD-17 & DD-18 FOR DETAILS NOT SHOWN.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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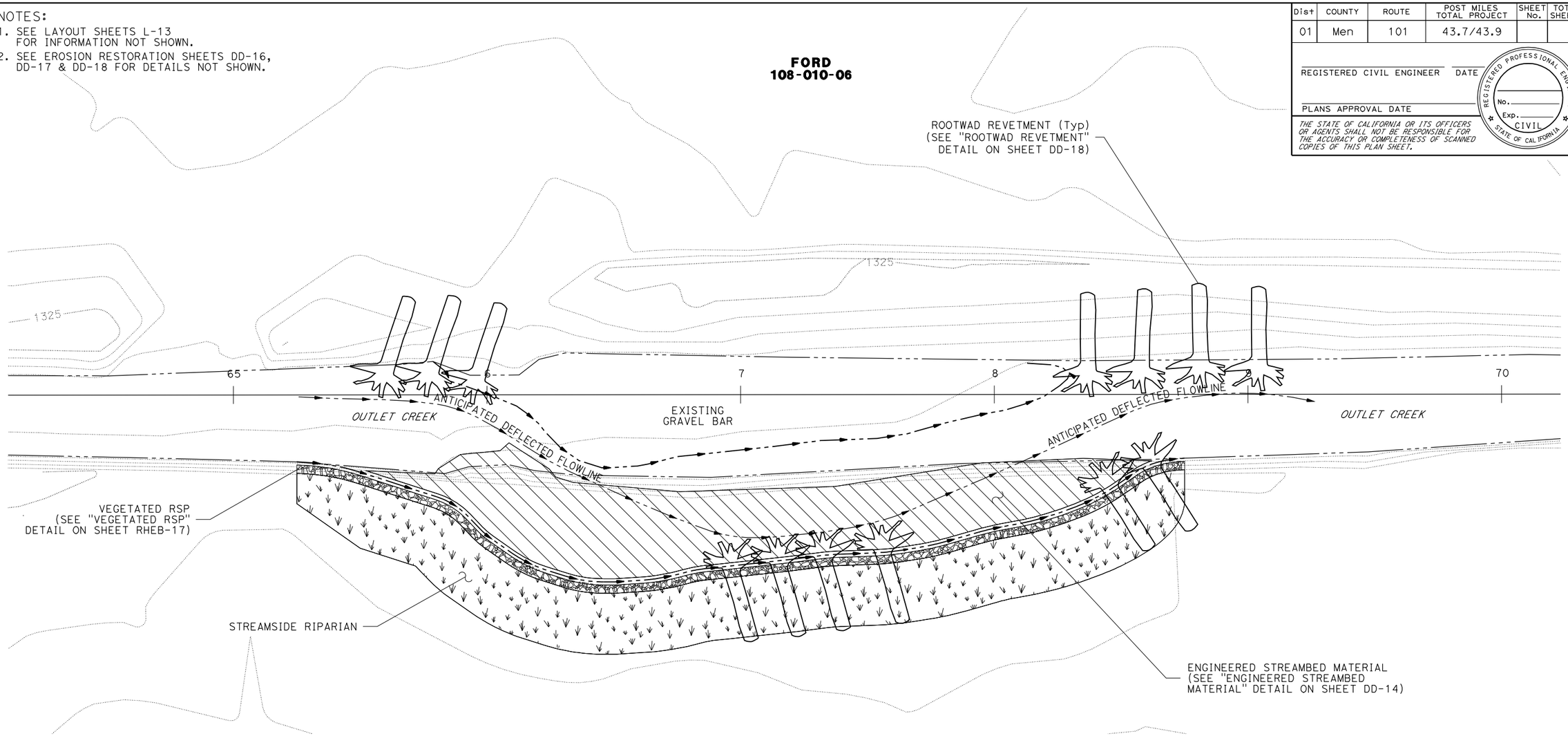
FORD
108-010-06



FORD PERCEL
REPAIR HEADCUT OR ERODING BANK

DRAINAGE DETAIL

SCALE: 1"=20'

DD-12

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NOTES:
1. SEE LAYOUT SHEET L-14 FOR INFORMATION NOT SHOWN.
2. SEE DRAINAGE DETAIL SHEETS DD-16, DD-17 & DD-18 FOR DETAILS NOT SHOWN.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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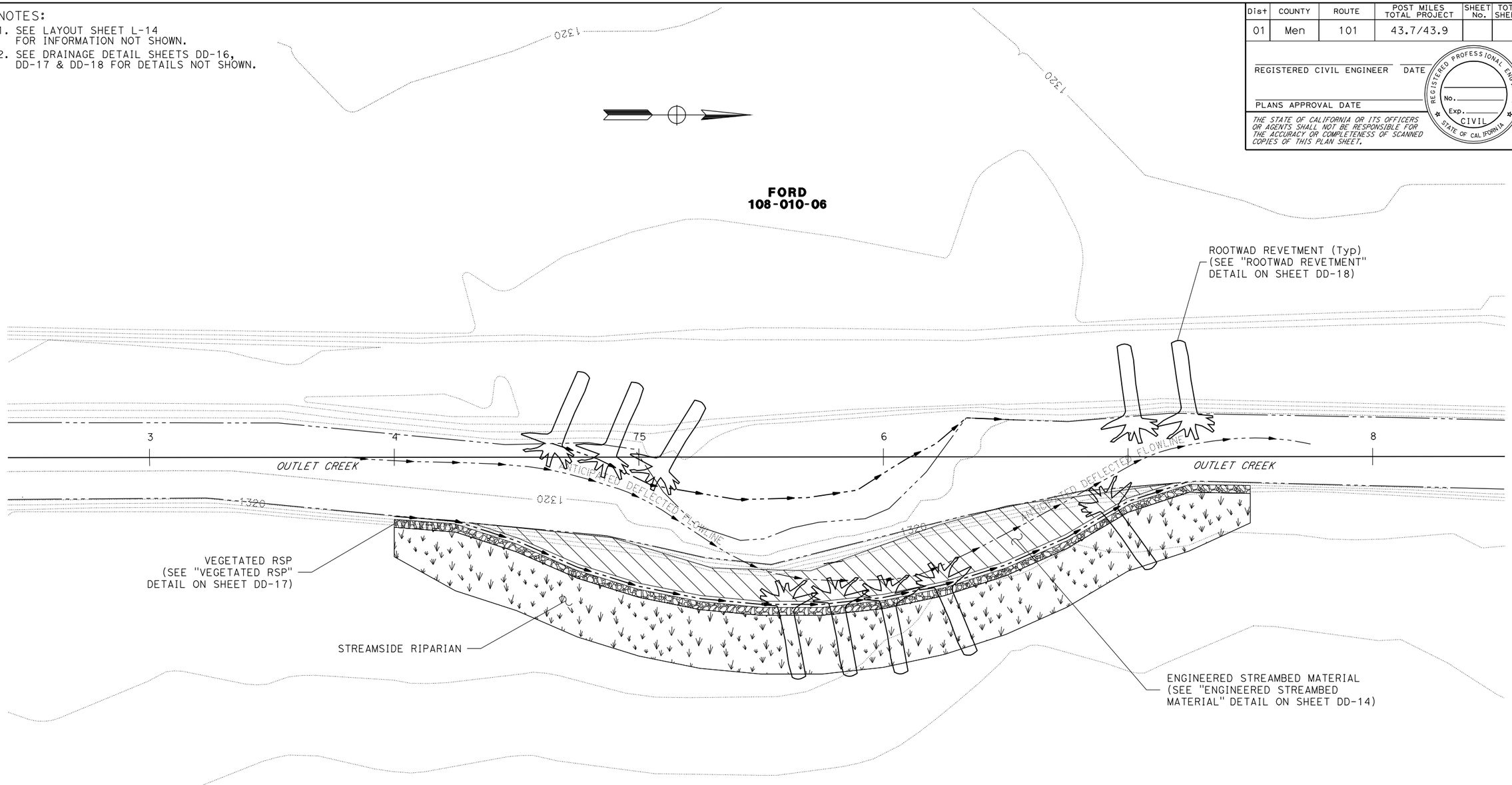

FORD PERCEL
REPAIR HEADCUT OR ERODING BANK

DRAINAGE DETAIL

SCALE: 1"=20'

DD-13

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NOTES:
1. FOR PLAN VIEW SEE DD-1, DD-3 & DD-6.
2. SOIL COMPACTION FOR SOIL BACKFILL NOT TO EXCEED 85%.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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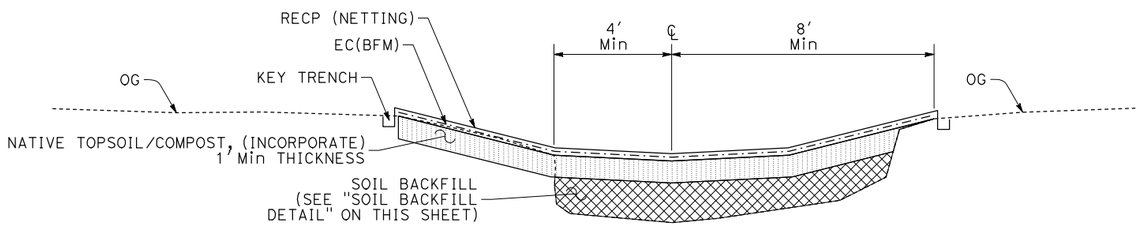
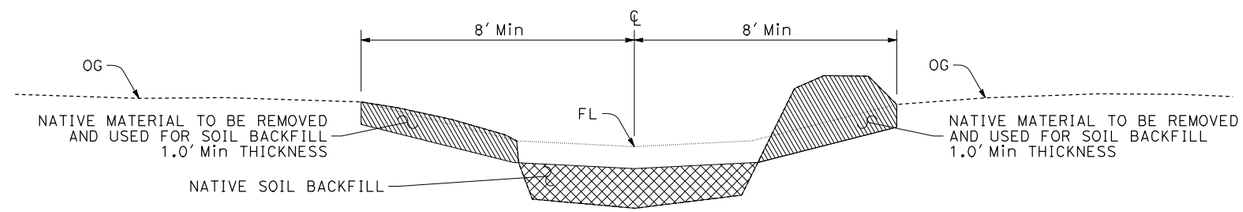


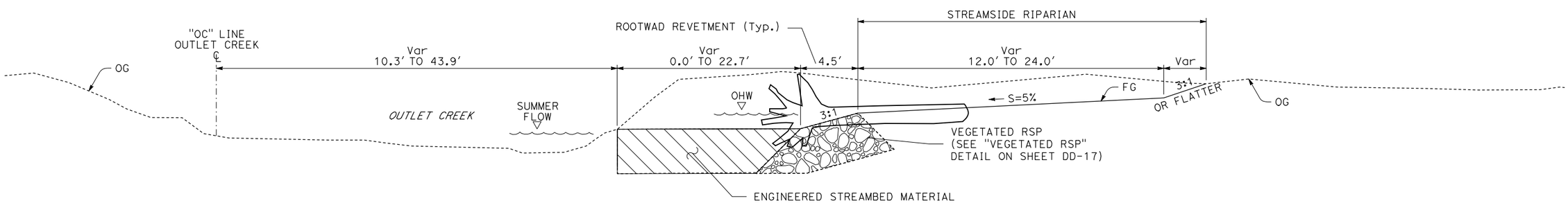
NOTES:
1. REFER TO DRAINAGE DETAILS FOR ADDITIONAL INFORMATION.

SWALE DETAIL



NOTES:
1. REFER TO DRAINAGE DETAILS FOR ADDITIONAL INFORMATION.

SOIL BACKFILL DETAIL



ENGINEERED STREAMBED MATERIAL
NO SCALE

REPAIR HEADCUT OR ERODING BANK

DRAINAGE DETAIL

NO SCALE

DD-14

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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NOTES:
1. FOR PLAN VIEW SEE DD-2 & DD-3.
2. LOCATIONS TO BE DETERMINED BY ENGINEER.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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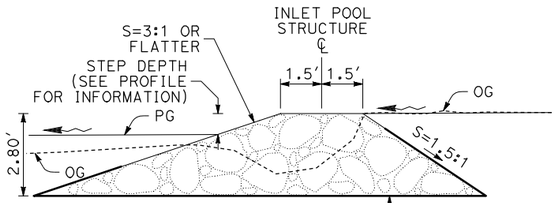
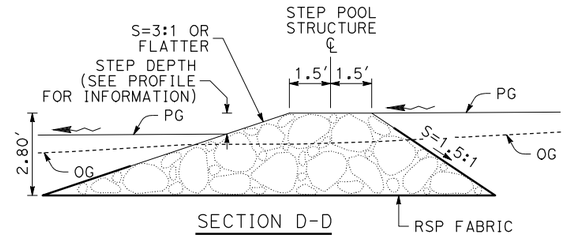


SECTION B-B



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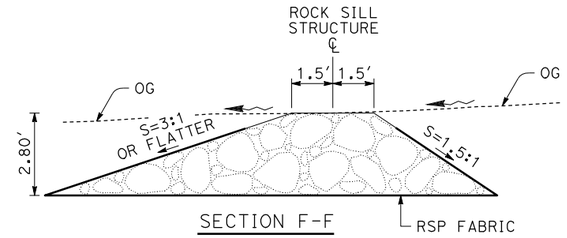

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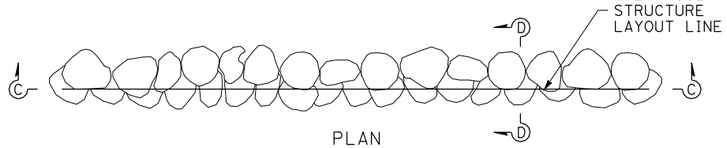
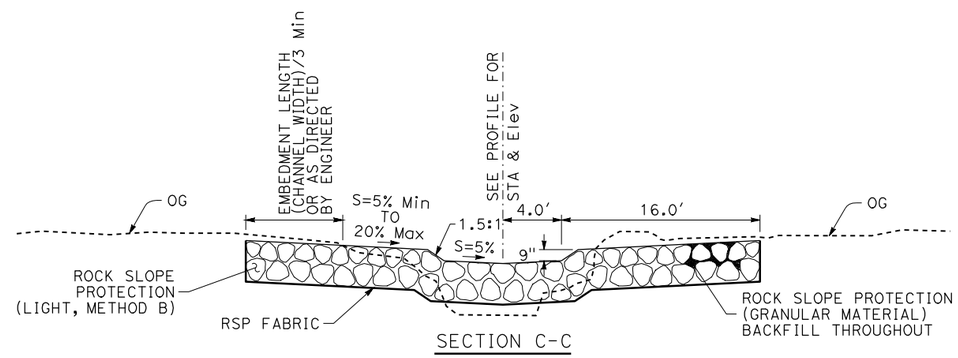
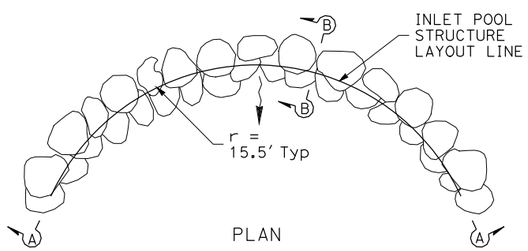


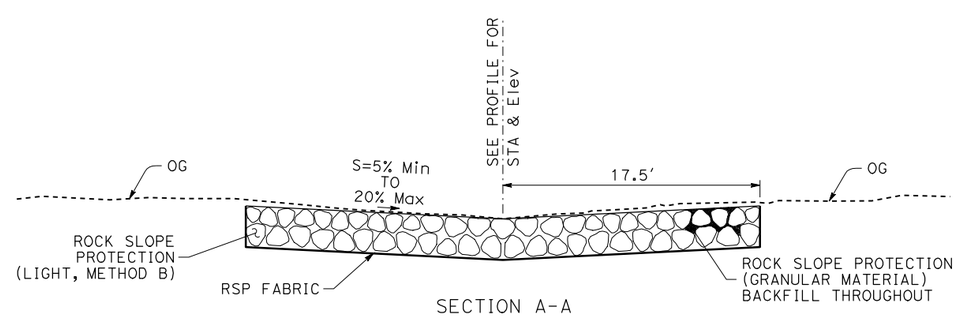
STEP POOL STRUCTURE
NO SCALE



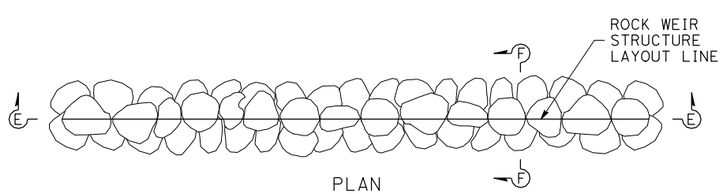
SECTION C-C



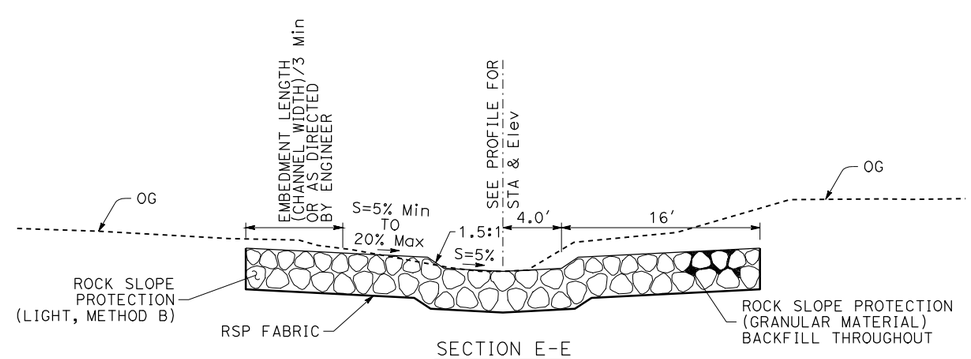
INLET POOL STRUCTURE
NO SCALE



SECTION A-A



ROCK SILL STRUCTURE
NO SCALE



SECTION E-E

REPAIR HEADCUT OR ERODING BANK

DRAINAGE DETAIL

NO SCALE

DD-15

REVISED BY	DATE REVISED
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 03-DESIGN EAST

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NOTES:
1. FOR PLAN VIEW SEE DD-2 & DD-3.
2. LOCATIONS TO BE DETERMINED BY ENGINEER.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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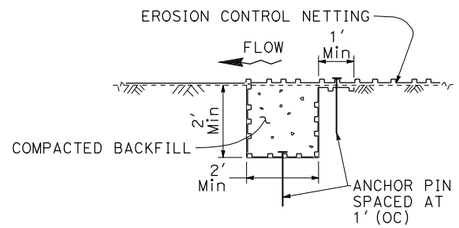
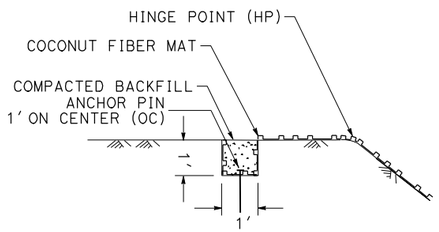
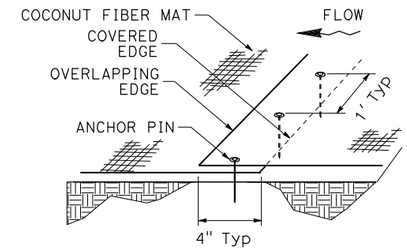


INITIAL ANCHOR TRENCH (DOWNSTREAM) DETAIL

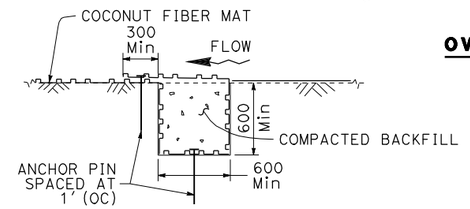


SECTION

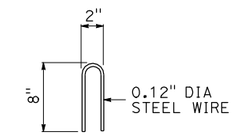
LONGITUDINAL ANCHOR TRENCH



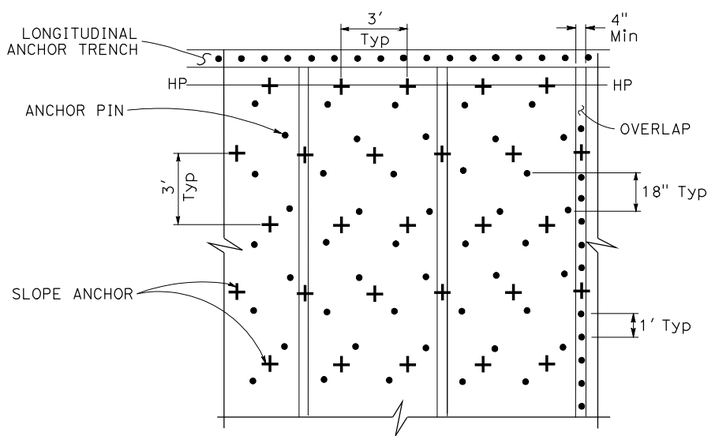
OVERLAP JOINT



TERMINAL ANCHOR TRENCH (UPSTREAM) DETAIL

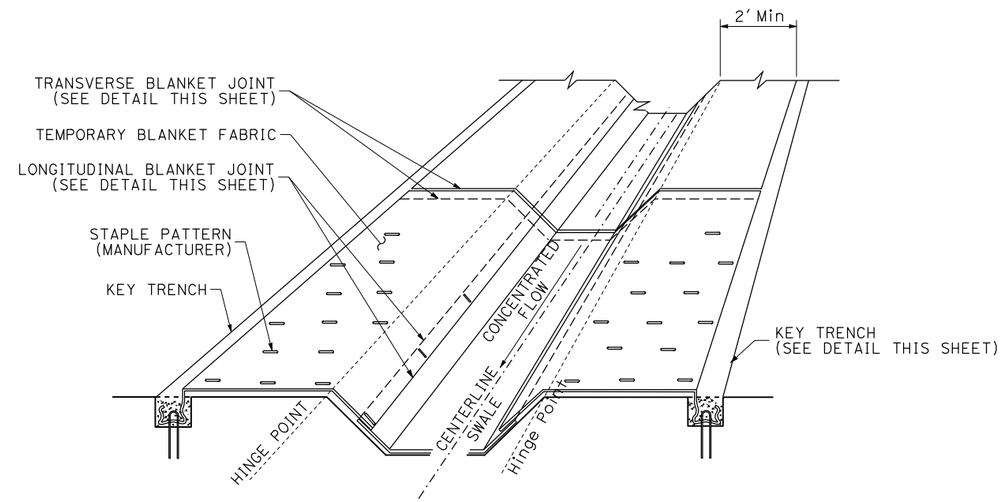


STAPLE DETAIL



PLAN

ANCHOR PLACEMENT



PERSPECTIVE

TEMPORARY EROSION CONTROL BLANKET IN SWALE

COCONUT FIBER MAT (EROSION CONTROL)

THIS PLAN ACCURATE FOR DRAINAG WORK ONLY.

REPAIR HEADCUT OR ERODING BANK

DRAINAGE DETAIL

NO SCALE

DD-16

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NOTES:
1. FOR PLAN VIEW SEE DD-4 & DD-5.
2. LOCATIONS TO BE DETERMINED BY ENGINEER.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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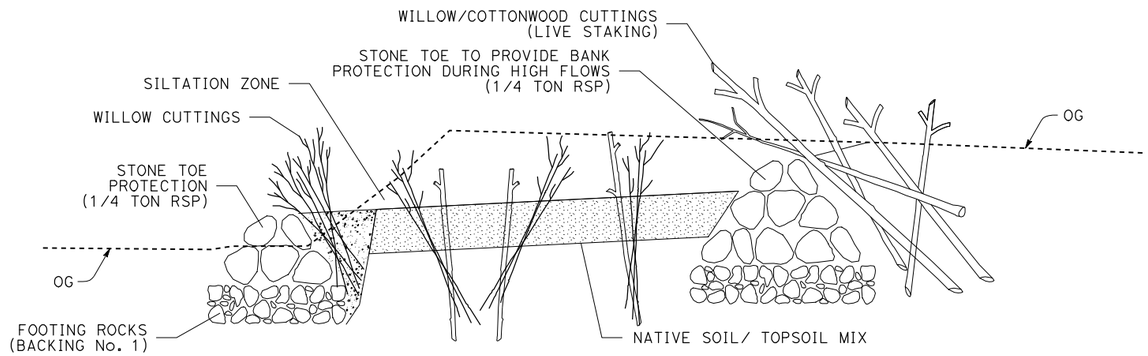
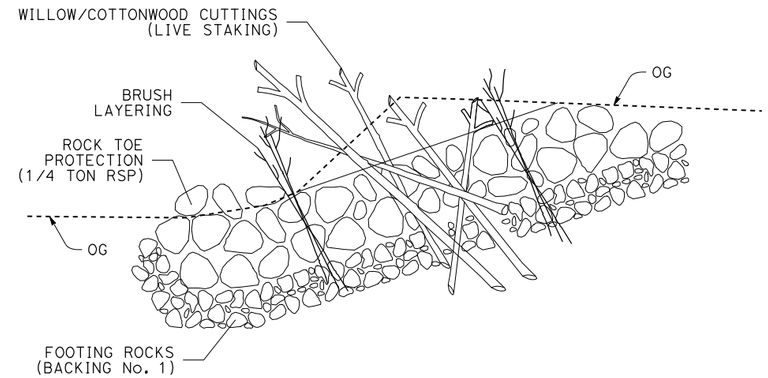
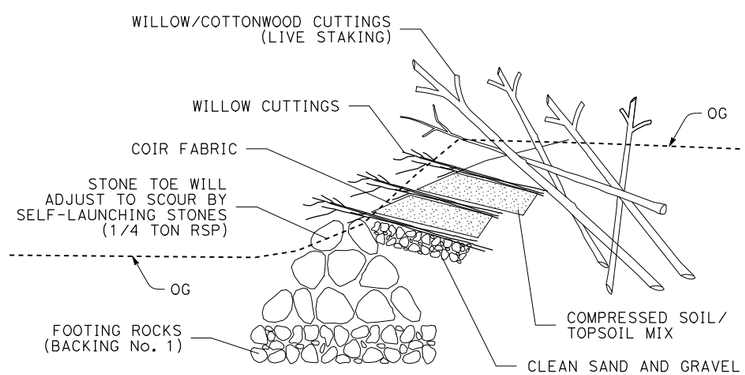


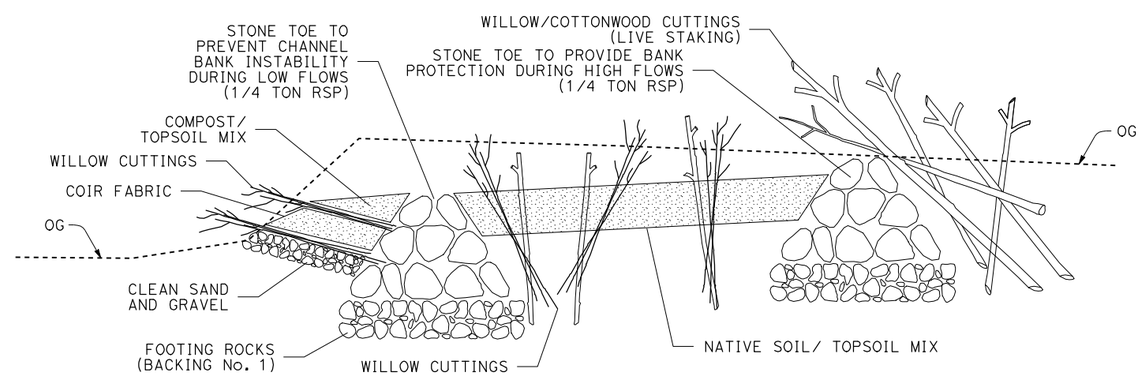
INCREASED CHANNEL CAPACITY TO REDUCE BANK EROSION (OPTION B)
NO SCALE



VEGETATED RSP
NO SCALE



LONGITUDINAL STONE TOE WITH BRUSH LAYER
NO SCALE



INCREASED CHANNEL CAPACITY TO REDUCE BANK EROSION (OPTION A)
NO SCALE

THIS PLAN ACCURATE FOR DRAINAG WORK ONLY.

REPAIR HEADCUT OR ERODING BANK
DRAINAGE DETAIL
NO SCALE
DD-17

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03-DESIGN EAST

LAST REVISION 09-27-11 | DATE PLOTTED => 02-OCT-2011 | TIME PLOTTED => 12:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	43.7/43.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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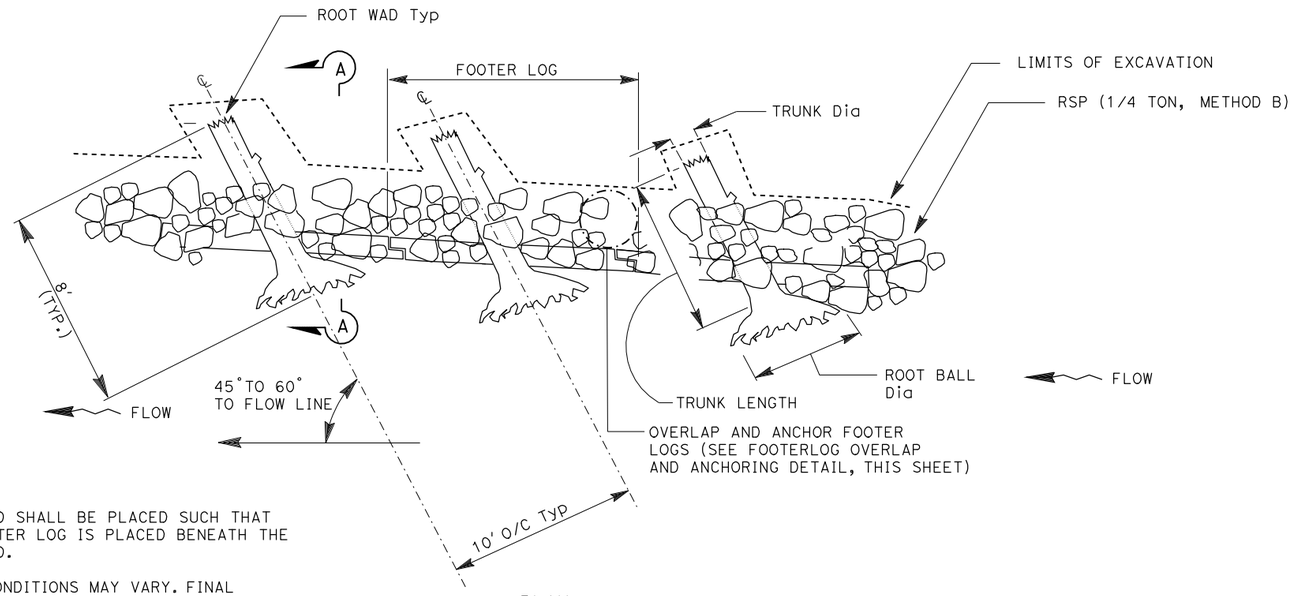
NOTES:
1. FOR PLAN VIEW SEE DD-11, DD-12 & DD-13.
2. LOCATIONS TO BE DETERMINED BY ENGINEER.



NOTES:

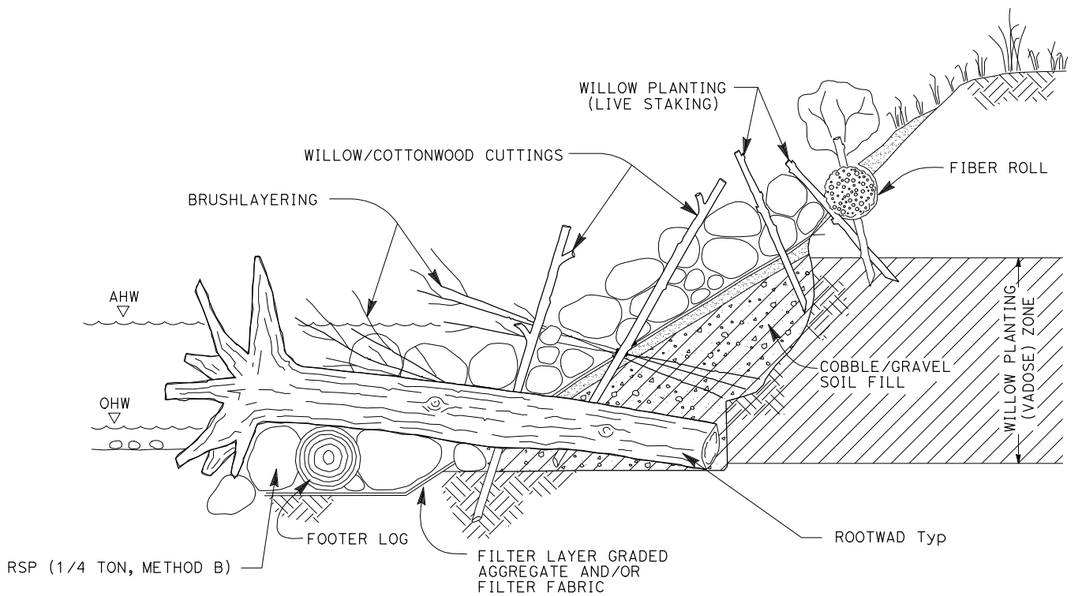
1. ROOT WAD SHALL BE PLACED SUCH THAT THE FOOTER LOG IS PLACED BENEATH THE ROOT WAD.
2. FIELD CONDITIONS MAY VARY. FINAL CONFIGURATION SHALL BE DETERMINED BY ENGINEER.

PLAN

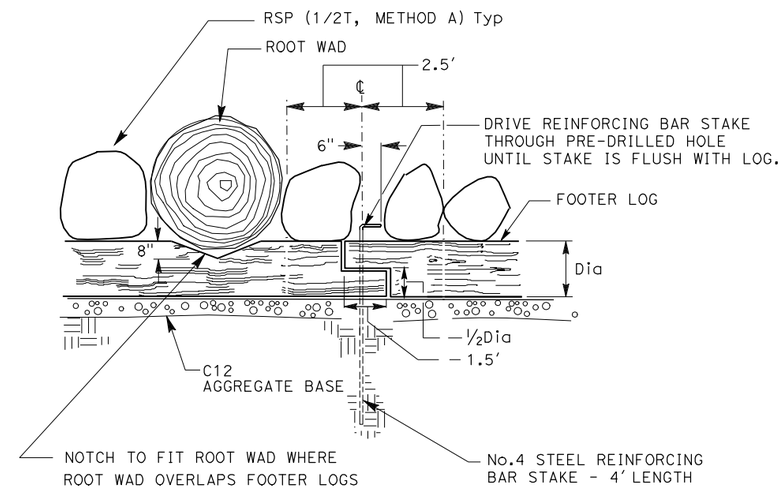
ROOT WAD REVETMENT

NOTES:

1. WILLOW POLE PLANTING SHALL BE INSTALLED DURING BANK GRADING AND ROCK SLOPE PROTECTION PLACEMENT TO ENSURE GOOD CONTACT WITH 'NATIVE GROUND' AND SOIL FILL.
2. CUT SMALL HOLES OR SLITS IN FILTER FABRIC AS NECESSARY.
3. PLACE SOIL FILL (COBBLES, GRAVEL, SOIL) AROUND CUTTING.
4. ROCK SLOPE PRTOECTION SHALL BE PLACED USING METHOD "B". SOME DAMAGE TO WILLOW POLES IS UNAVOIDABLE AND ACCEPTABLE. DEEPLY PLANTED WILLOW MATERIAL WILL REGENERATE.



SECTION A-A



ELEVATION

FOOTER LOG OVERLAP AND ANCHORING DETAIL

ROOTWAD REVETMENT

THIS PLAN ACCURATE FOR DRAINAG WORK ONLY.

REPAIR HEADCUT OR ERODING BANK

DRAINAGE DETAIL

NO SCALE

DD-18

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION 09-27-11

DATE PLOTTED => 02-OCT-2011

TIME PLOTTED => 12:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Signature — Renewal Date — Date — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

SEED MIX TABLE

PRIMARY SEED SOURCE:
1) LITTLE LAKE VALLEY, 2) OUTLET CREEK BASIN, 3) EEL RIVER WATERSHED.

SECONDARY SEED SOURCE PER THE JEPSON MANUAL:
1) NORTH COAST SUBREGION, 2) OUTER NORTH COAST RANGES

WETLAND INDICATOR STATUS	DEFINITION
OBL	OBLIGATE, ALMOST ALWAYS OCCURS IN WETLANDS (>= 99%)
FACW	FACULATIVE WETLAND, USUALLY OCCURS IN WETLANDS (66-99%)
FAC+	FACULATIVE, CAN OCCUR IN WETLANDS. CAN TOLERATE WETTER CONDITIONS THEN FAC
FAC	FACULATIVE, EQUALLY LIKELY TO OCCUR IN WETLANDS/ NON-WETLANDS (34-66%)
FAC b	NOT ASSIGNED STATUS BUT APPEARS TO BE AT LEAST FAC

SEED	BOTANICAL NAME (COMMON NAME)	WETLAND INDICATOR STATUS		POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
MIX WEG1-1 (FORD-WET MEADOW)	ALOPECURUS SACCATUS (PACIFIC FOXTAIL)	OBL		6
	DANTHONIA CALIFORNICA (CALIFORNIA OATGRASS)	FACW		12
	DESCHAMPSIA DANTHONIODES (ANNUAL HAIRGRASS)	FACW		8
	HORDEUM BRACHYANTHERUM SSP. CALIFORNICUM (CALIFORNICA BARLEY)	FACW		12
	LEYMUS TRITICOIDES (CREEPING RYEGRASS)	FAC		6
	JUNCUS BUFONIUS (TOAD RUSH)	FACW		2
	JUNCUS ENSIFOLIUS (SWORDLEAF RUSH)	FACW		4
	JUNCUS TENUIS (SLENDER RUSH)	FACW		4
	RANUNCULUS OCCIDENTALIS (WESTERN BUTTERCUP)	FACW		6
			TOTAL	54

SEED	BOTANICAL NAME (COMMON NAME)	WETLAND INDICATOR STATUS		POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
MIX WEG1-3 (NIESEN-WET MEADOW)	ALOPECURUS SACCATUS (PACIFIC FOXTAIL)	OBL		6
	DANTHONIA CALIFORNICA (CALIFORNIA OATGRASS)	FACW		12
	DESCHAMPSIA DANTHONIODES (ANNUAL HAIRGRASS)	FACW		8
	HORDEUM BRACHYANTHERUM SSP. CALIFORNICUM (CALIFORNICA BARLEY)	FACW		12
	JUNCUS BUFONIUS (TOAD RUSH)	FACW		2
	JUNCUS ENSIFOLIUS (SWORDLEAF RUSH)	FACW		4
	JUNCUS TENUIS (SLENDER RUSH)	FACW		4
	RANUNCULUS OCCIDENTALIS (WESTERN BUTTERCUP)	FACW		6
			TOTAL	54

SEED	BOTANICAL NAME (COMMON NAME)	WETLAND INDICATOR STATUS		POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
MIX WEG1-2 (GOSS/ MGC PLASMA- WET MEADOW)	ALOPECURUS SACCATUS (PACIFIC FOXTAIL)	OBL		4
	DANTHONIA CALIFORNICA (CALIFORNIA OATGRASS)	FACW		3
	DESCHAMPSIA DANTHONIODES (ANNUAL HAIRGRASS)	FACW		3
	HORDEUM BRACHYANTHERUM SSP. CALIFORNICUM (CALIFORNICA BARLEY)	FACW		2
	JUNCUS BUFONIUS (TOAD RUSH)	FACW		2
	JUNCUS ENSIFOLIUS (SWORDLEAF RUSH)	FACW		6
	JUNCUS TENUIS (SLENDER RUSH)	FACW		6
	RANUNCULUS OCCIDENTALIS (WESTERN BUTTERCUP)	FACW		10
			TOTAL	36

SEED	BOTANICAL NAME (COMMON NAME)	WETLAND INDICATOR STATUS		POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
MIX WEG1-4 (WATSON-WET MEADOW)	ALOPECURUS SACCATUS (PACIFIC FOXTAIL)	OBL		4
	DANTHONIA CALIFORNICA (CALIFORNIA OATGRASS)	FACW		8
	DESCHAMPSIA DANTHONIODES (ANNUAL HAIRGRASS)	FACW		8
	HORDEUM BRACHYANTHERUM SSP. CALIFORNICUM (CALIFORNICA BARLEY)	FACW		6
	JUNCUS BUFONIUS (TOAD RUSH)	FACW		2
	JUNCUS ENSIFOLIUS (SWORDLEAF RUSH)	FACW		6
	JUNCUS TENUIS (SLENDER RUSH)	FACW		6
	RANUNCULUS OCCIDENTALIS (WESTERN BUTTERCUP)	FACW		10
			TOTAL	50

EROSION CONTROL (WEG1-1) SEQUENCE AND APPLICATION (FORD- WET MEADOW)

SEQUENCE	ITEM	MATERIAL DESCRIPTION	MATERIAL TYPE	APPLICATION RATE
STEP 1	HYDROSEED	SEED	WEG1-1	54 LB/ACRE
		FIBER	WOOD	600 LB/ACRE
STEP 2	HYDROMULCH	FIBER	WOOD	600 LB/ACRE
		TACKIFIER	GUAR	200 LB/ACRE
STEP 3	ROLLED EROSION CONTROL PRODUCT (NETTING)	NETTING	TYPE A	

EROSION CONTROL (WEG1-2) SEQUENCE AND APPLICATION (GOSS/ MGC PLASMA- WET MEADOW)

SEQUENCE	ITEM	MATERIAL DESCRIPTION	MATERIAL TYPE	APPLICATION RATE
STEP 1	HYDROSEED	SEED	WEG1-2	36 LB/ACRE
		FIBER	WOOD	600 LB/ACRE
STEP 2	HYDROMULCH	FIBER	WOOD	600 LB/ACRE
		TACKIFIER	GUAR	200 LB/ACRE
STEP 3	ROLLED EROSION CONTROL PRODUCT (NETTING)	NETTING	TYPE A	

EROSION CONTROL (WEG1-3) SEQUENCE AND APPLICATION (NIESEN- WET MEADOW)

SEQUENCE	ITEM	MATERIAL DESCRIPTION	MATERIAL TYPE	APPLICATION RATE
STEP 1	HYDROSEED	SEED	WEG1-3	54 LB/ACRE
		FIBER	WOOD	600 LB/ACRE
STEP 2	HYDROMULCH	FIBER	WOOD	600 LB/ACRE
		TACKIFIER	GUAR	200 LB/ACRE
STEP 3	ROLLED EROSION CONTROL PRODUCT (NETTING)	NETTING	TYPE A	

EROSION CONTROL (WEG1-4) SEQUENCE AND APPLICATION (WATSON- WET MEADOW)

NOTE:
PLACEMENT OF LOCAL TOPSOIL (Type BMF) SHALL INCLUDE COMPACTION MEASURES OF 80-85% FOR SOIL STABILIZATION.

SEQUENCE	ITEM	MATERIAL DESCRIPTION	MATERIAL TYPE	APPLICATION RATE
STEP 1	LOCAL TOPSOIL	TOPSOIL	BMF	CY/ 1000 SQFT
STEP 2	HYDROSEED	SEED	WEG1-4	50 LB/ACRE
		FIBER	WOOD	600 LB/ACRE
STEP 3	HYDROMULCH	FIBER	WOOD	600 LB/ACRE
		TACKIFIER	GUAR	200 LB/ACRE
STEP 4	ROLLED EROSION CONTROL PRODUCT (NETTING)	NETTING	TYPE A	

WETLAND ESTABLISHMENT
GROUP 1

EROSION CONTROL SCHEDULE

NO SCALE

ECS-1

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CALCULATED-DESIGNED BY | CHECKED BY
SENIOR LANDSCAPE ARCHITECT
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 03 - LANDSCAPE ARCHITECTURE

LAST REVISION 00-00-00 | DATE PLOTTED => 02-OCT-2011 | TIME PLOTTED => 21:04

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Signature — Renewal Date — Date — STATE OF CALIFORNIA

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SEED MIX TABLE

NOTE:

* QUERCUS LOBATA APPLIES TO WETLAND RESTORATION (TYPE3) OAK PLANTING ONLY.

PRIMARY SEED SOURCE:
1) LITTLE LAKE VALLEY, 2) OUTLET CREEK BASIN, 3) EEL RIVER WATERSHED.

SECONDARY SEED SOURCE PER THE JEPSON MANUAL:
1) NORTH COAST SUBREGION, 2) OUTER NORTH COAST RANGES

WETLAND INDICATOR STATUS	DEFINITION
OBL	OBLIGATE, ALMOST ALWAYS OCCURS IN WETLANDS (>= 99%)
FACW	FACULATIVE WETLAND, USUALLY OCCURS IN WETLANDS (66-99%)
FAC+	FACULATIVE, CAN OCCUR IN WETLANDS. CAN TOLERATE WETTER CONDITIONS THEN FAC
FAC	FACULATIVE, EQUALLY LIKELY TO OCCUR IN WETLANDS/ NON-WETLANDS (34-66%)
FAC b	NOT ASSIGNED STATUS BUT APPEARS TO BE AT LEAST FAC

EROSION CONTROL SEQUENCE AND APPLICATION

SEQUENCE	ITEM	MATERIAL DESCRIPTION	MATERIAL TYPE	APPLICATION RATE
STEP 1	HYDROSEED	SEED	--	-- LB/ACRE
		FIBER	WOOD	600 LB/ACRE
STEP 2	HYDROMULCH	FIBER	WOOD	600 LB/ACRE
		TACKIFIER	GUAR	200 LB/ACRE

BENBOW
APN 108-020-06

SEED MIX	BOTANICAL NAME COMMON NAME	WETLAND INDICATOR STATUS
MIX 108-020-06	Alopercurus saccatus PACIFIC FOXTAIL	FACW
	Camassia quamash SMALL CAMAS	FACW
	Danthonia californica CALIFORNIA OATGRASS	FACW
	Deshampsia danthanoides ANNUAL HAIRGRASS	FACW
	Hordeum brachyantherum MEADOW BARLEY	FACW
	Lasthenia glabberimma SMOOTH GOLDFIELDS	OBL
	Lotus obongiflolius STEAMBANK BIRD'S-FOOT TREFOIL	OBL
	Ranunculus occidentalis BUTTERCUP	FACW
	Ranunculus orthorhynchus STRAIGHTBEAK BUTTERCUP	FACW
	Trifolium variegatum WHITEIP CLOVER	FACW

BENBOW
APN 108-040-13

SEED MIX	BOTANICAL NAME COMMON NAME	WETLAND INDICATOR STATUS
MIX 108-040-13	Alopercurus saccatus PACIFIC FOXTAIL	FACW
	Camassia quamash SMALL CAMAS	FACW
	Danthonia californica CALIFORNIA OATGRASS	FACW
	Deshampsia danthanoides ANNUAL HAIRGRASS	FACW
	Hordeum brachyantherum MEADOW BARLEY	FACW
	Lasthenia glabberimma SMOOTH GOLDFIELDS	OBL
	Lotus obongiflolius STEAMBANK BIRD'S-FOOT TREFOIL	OBL
	Ranunculus occidentalis BUTTERCUP	FACW
	Ranunculus orthorhynchus STRAIGHTBEAK BUTTERCUP	FACW
	Trifolium variegatum WHITEIP CLOVER	FACW

BENBOW
APN 108-030-07

SEED MIX	BOTANICAL NAME COMMON NAME	WETLAND INDICATOR STATUS
MIX 108-030-07	Alopercurus saccatus PACIFIC FOXTAIL	FACW
	Camassia quamash SMALL CAMAS	FACW
	Danthonia californica CALIFORNIA OATGRASS	FACW
	Deshampsia danthanoides ANNUAL HAIRGRASS	FACW
	Hordeum brachyantherum MEADOW BARLEY	FACW
	Lasthenia glabberimma SMOOTH GOLDFIELDS	OBL
	Lotus obongiflolius STEAMBANK BIRD'S-FOOT TREFOIL	OBL
	Ranunculus occidentalis BUTTERCUP	FACW
	Ranunculus orthorhynchus STRAIGHTBEAK BUTTERCUP	FACW
	Trifolium variegatum WHITEIP CLOVER	FACW

WETLAND ESTABLISHMENT
GROUP 2

WETLAND RESTORATION
TYPE 3- OAK PLANTING
TYPE 4- HERBACEOUS WETLAND PLANTING

EROSION CONTROL SCHEDULE

NO SCALE

ECS-2

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 00-00-00 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 09:23

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Signature — Renewal Date — Date — STATE OF CALIFORNIA

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SEED MIX TABLE

NOTE:

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PRIMARY SEED SOURCE:
1) LITTLE LAKE VALLEY, 2) OUTLET CREEK BASIN, 3) EEL RIVER WATERSHED.

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1) NORTH COAST SUBREGION, 2) OUTER NORTH COAST RANGES

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FAC b	NOT ASSIGNED STATUS BUT APPEARS TO BE AT LEAST FAC

EROSION CONTROL SEQUENCE AND APPLICATION

SEQUENCE	ITEM	MATERIAL DESCRIPTION	MATERIAL TYPE	APPLICATION RATE
STEP 1	HYDROSEED	SEED	--	-- LB/ACRE
		FIBER	WOOD	600 LB/ACRE
STEP 2	HYDROMULCH	FIBER	WOOD	600 LB/ACRE
		TACKIFIER	GUAR	200 LB/ACRE

BENBOW
APN 007-010-04

SEED MIX	BOTANICAL NAME COMMON NAME	WETLAND INDICATOR STATUS
MIX 007-010-04	Danthonia californica CALIFORNIA OATGRASS	FACW
	Deshampsia danthanoides ANNUAL HAIRGRASS	FACW
	Hordeum brachyantherum MEADOW BARLEY	FACW
	Lasthenia glabberimma SMOOTH GOLDFIELDS	OBL
	Lotus obongifiolius STEAMBANK BIRD'S-FOOT TREFOIL	OBL
	Ranunculus occidentalis BUTTERCUP	FACW
	Ranunculus orthorhynchus STRAIGHTBEAK BUTTERCUP	FACW
	Trifolium variegatum WHITEIP CLOVER	FACW

BENBOW
APN 007-020-03

SEED MIX	BOTANICAL NAME COMMON NAME	WETLAND INDICATOR STATUS
MIX 007-020-03	Alopercurus saccatus PACIFIC FOXTAIL	FACW
	Danthonia californica CALIFORNIA OATGRASS	FACW
	Deshampsia danthanoides ANNUAL HAIRGRASS	FACW
	Hordeum brachyantherum MEADOW BARLEY	FACW
	Lasthenia glabberimma SMOOTH GOLDFIELDS	OBL
	Lotus obongifiolius STEAMBANK BIRD'S-FOOT TREFOIL	OBL
	Ranunculus occidentalis BUTTERCUP	FACW
	Ranunculus orthorhynchus STRAIGHTBEAK BUTTERCUP	FACW
	Trifolium variegatum WHITEIP CLOVER	FACW

WETLAND ESTABLISHMENT
GROUP 2

WETLAND RESTORATION
TYPE 3- OAK PLANTING
TYPE 4- HERBACEOUS WETLAND PLANTING

EROSION CONTROL SCHEDULE

NO SCALE

ECS-3

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01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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EROSION CONTROL SEQUENCE AND APPLICATION

SEQUENCE	ITEM	MATERIAL DESCRIPTION	MATERIAL TYPE	APPLICATION RATE
STEP 1	HYDROSEED	SEED	--	-- LB/ACRE
		FIBER	WOOD	600 LB/ACRE
STEP 2	HYDROMULCH	FIBER	WOOD	600 LB/ACRE
		TACKIFIER	GUAR	200 LB/ACRE

FORD
APN 108-010-06

SEED MIX	BOTANICAL NAME COMMON NAME	WETLAND INDICATOR STATUS
MIX 108-010-06	Alopercurus saccatus PACIFIC FOXTAIL	FACW
	Camassia quamash SMALL CAMAS	FACW
	Danthonia californica CALIFORNIA OATGRASS	FACW
	Deshampsia danthanoides ANNUAL HAIRGRASS	FACW
	Hordeum brachyantherum MEADOW BARLEY	FACW
	Lasthenia glabberimma SMOOTH GOLDFIELDS	OBL
	Lotus obongiflolius STEAMBANK BIRD'S-FOOT TREFOIL	OBL
	Ranunculus alismifolius PLANTAINLEAF BUTTERCUP	FACW
	Ranunculus occidentalis BUTTERCUP	FACW
	Ranunculus orthorhynchus STRAIGHTBEAK BUTTERCUP	FACW
	Trifolium variegatum WHITEIP CLOVER	FACW

FORD
APN 108-020-04

SEED MIX	BOTANICAL NAME COMMON NAME	WETLAND INDICATOR STATUS
MIX 108-020-04	Alopercurus saccatus PACIFIC FOXTAIL	FACW
	Camassia quamash SMALL CAMAS	FACW
	Danthonia californica CALIFORNIA OATGRASS	FACW
	Deshampsia danthanoides ANNUAL HAIRGRASS	FACW
	Hordeum brachyantherum MEADOW BARLEY	FACW
	Lasthenia glabberimma SMOOTH GOLDFIELDS	OBL
	Lotus obongiflolius STEAMBANK BIRD'S-FOOT TREFOIL	OBL
	Ranunculus occidentalis BUTTERCUP	FACW
	Ranunculus orthorhynchus STRAIGHTBEAK BUTTERCUP	FACW
	Trifolium variegatum WHITEIP CLOVER	FACW

FORD
APN 108-030-02

SEED MIX	BOTANICAL NAME COMMON NAME	WETLAND INDICATOR STATUS
MIX 108-030-02	Danthonia californica CALIFORNIA OATGRASS	FACW
	Deshampsia danthanoides ANNUAL HAIRGRASS	FACW
	Hordeum brachyantherum MEADOW BARLEY	FACW
	Lasthenia glabberimma SMOOTH GOLDFIELDS	OBL
	Lotus obongiflolius STEAMBANK BIRD'S-FOOT TREFOIL	OBL
	Ranunculus occidentalis BUTTERCUP	FACW
	Ranunculus orthorhynchus STRAIGHTBEAK BUTTERCUP	FACW
	Trifolium variegatum WHITEIP CLOVER	FACW

FORD
APN 108-030-05

SEED MIX	BOTANICAL NAME COMMON NAME	WETLAND INDICATOR STATUS
MIX 108-030-05	Alopercurus saccatus PACIFIC FOXTAIL	FACW
	Camassia quamash SMALL CAMAS	FACW
	Danthonia californica CALIFORNIA OATGRASS	FACW
	Deshampsia danthanoides ANNUAL HAIRGRASS	FACW
	Hordeum brachyantherum MEADOW BARLEY	FACW
	Lasthenia glabberimma SMOOTH GOLDFIELDS	OBL
	Lotus obongiflolius STEAMBANK BIRD'S-FOOT TREFOIL	OBL
	Ranunculus alismifolius PLANTAINLEAF BUTTERCUP	FACW
	Ranunculus occidentalis BUTTERCUP	FACW
	Ranunculus orthorhynchus STRAIGHTBEAK BUTTERCUP	FACW
	Trifolium variegatum WHITEIP CLOVER	FACW

WETLAND ESTABLISHMENT
GROUP 2

WETLAND RESTORATION
TYPE 3- OAK PLANTING
TYPE 4- HERBACEOUS WETLAND PLANTING

EROSION CONTROL SCHEDULE

NO SCALE

ECS-4

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® 03 - LANDSCAPE ARCHITECTURE

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01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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EROSION CONTROL SEQUENCE AND APPLICATION

SEQUENCE	ITEM	MATERIAL DESCRIPTION	MATERIAL TYPE	APPLICATION RATE
STEP 1	HYDROSEED	SEED	--	-- LB/ACRE
		FIBER	WOOD	600 LB/ACRE
STEP 2	HYDROMULCH	FIBER	WOOD	600 LB/ACRE
		TACKIFIER	GUAR	200 LB/ACRE

FROST
APN 108-070-04

SEED MIX	BOTANICAL NAME COMMON NAME	WETLAND INDICATOR STATUS
MIX 108-070-04	Alopercurus saccatus PACIFIC FOXTAIL	FACW
	Danthonia californica CALIFORNIA OATGRASS	FACW
	Deshampsia danthanoides ANNUAL HAIRGRASS	FACW
	Hordeum brachyantherum MEADOW BARLEY	FACW
	Lasthenia glabberimma SMOOTH GOLDFIELDS	OBL
	Lotus obongiflolius STEAMBANK BIRD'S-FOOT TREFOIL	OBL
	Ranunculus occidentalis BUTTERCUP	FACW
	Ranunculus orthorhynchus STRAIGHTBEAK BUTTERCUP	FACW
	Trifolium variegatum WHITEIP CLOVER	FACW

GOSS
APN 103-230-02

SEED MIX	BOTANICAL NAME COMMON NAME	WETLAND INDICATOR STATUS
MIX 103-230-02	Alopercurus saccatus PACIFIC FOXTAIL	FACW
	Danthonia californica CALIFORNIA OATGRASS	FACW
	Deshampsia danthanoides ANNUAL HAIRGRASS	FACW
	Hordeum brachyantherum MEADOW BARLEY	FACW
	Lasthenia glabberimma SMOOTH GOLDFIELDS	OBL
	Lotus obongiflolius STEAMBANK BIRD'S-FOOT TREFOIL	OBL
	Ranunculus occidentalis BUTTERCUP	FACW
	Ranunculus orthorhynchus STRAIGHTBEAK BUTTERCUP	FACW
	Trifolium variegatum WHITEIP CLOVER	FACW

LUSHER
APN 108-030-04

SEED MIX	BOTANICAL NAME COMMON NAME	WETLAND INDICATOR STATUS
MIX 108-030-04	Alopercurus saccatus PACIFIC FOXTAIL	FACW
	Camassia quamash SMALL CAMAS	FACW
	Danthonia californica CALIFORNIA OATGRASS	FACW
	Deshampsia danthanoides ANNUAL HAIRGRASS	FACW
	Hordeum brachyantherum MEADOW BARLEY	FACW
	Lasthenia glabberimma SMOOTH GOLDFIELDS	OBL
	Lotus obongiflolius STEAMBANK BIRD'S-FOOT TREFOIL	OBL
	Ranunculus occidentalis BUTTERCUP	FACW
	Ranunculus orthorhynchus STRAIGHTBEAK BUTTERCUP	FACW
	Trifolium variegatum WHITEIP CLOVER	FACW

WETLAND ESTABLISHMENT
GROUP 2

WETLAND RESTORATION
TYPE 3- OAK PLANTING
TYPE 4- HERBACEOUS WETLAND PLANTING

EROSION CONTROL SCHEDULE

NO SCALE

ECS-5

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 03 - LANDSCAPE ARCHITECTURE

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01	Men	101			

LICENSED LANDSCAPE ARCHITECT

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EROSION CONTROL SEQUENCE AND APPLICATION

SEQUENCE	ITEM	MATERIAL DESCRIPTION	MATERIAL TYPE	APPLICATION RATE
STEP 1	HYDROSEED	SEED	--	-- LB/ACRE
		FIBER	WOOD	600 LB/ACRE
STEP 2	HYDROMULCH	FIBER	WOOD	600 LB/ACRE
		TACKIFIER	GUAR	200 LB/ACRE

MGC PLASMA
APN 103-230-06

SEED MIX	BOTANICAL NAME COMMON NAME	WETLAND INDICATOR STATUS
MIX 103-230-06	Alopercurus saccatus PACIFIC FOXTAIL	FACW
	Danthonia californica CALIFORNIA OATGRASS	FACW
	Deshampsia danthanoides ANNUAL HAIRGRASS	FACW
	Hordeum brachyantherum MEADOW BARLEY	FACW
	Lasthenia glabberimma SMOOTH GOLDFIELDS	OBL
	Lotus obongifiolius STEAMBANK BIRD'S-FOOT TREFOIL	OBL
	Ranunculus occidentalis BUTTERCUP	FACW
	Ranunculus orthorhynchus STRAIGHTBEAK BUTTERCUP	FACW
	Trifolium variegatum WHITEIP CLOVER	FACW

MGC PLASMA
APN 103-250-14

SEED MIX	BOTANICAL NAME COMMON NAME	WETLAND INDICATOR STATUS
MIX 103-250-14	Alopercurus saccatus PACIFIC FOXTAIL	FACW
	Danthonia californica CALIFORNIA OATGRASS	FACW
	Deshampsia danthanoides ANNUAL HAIRGRASS	FACW
	Hordeum brachyantherum MEADOW BARLEY	FACW
	Lasthenia glabberimma SMOOTH GOLDFIELDS	OBL
	Lotus obongifiolius STEAMBANK BIRD'S-FOOT TREFOIL	OBL
	Ranunculus occidentalis BUTTERCUP	FACW
	Ranunculus orthorhynchus STRAIGHTBEAK BUTTERCUP	FACW
	Trifolium variegatum WHITEIP CLOVER	FACW

NIESEN
APN 108-040-02

SEED MIX	BOTANICAL NAME COMMON NAME	WETLAND INDICATOR STATUS
MIX 108-040-02	Alopercurus saccatus PACIFIC FOXTAIL	FACW
	Camassia quamash SMALL CAMAS	FACW
	Danthonia californica CALIFORNIA OATGRASS	FACW
	Deshampsia danthanoides ANNUAL HAIRGRASS	FACW
	Hordeum brachyantherum MEADOW BARLEY	FACW
	Lasthenia glabberimma SMOOTH GOLDFIELDS	OBL
	Lotus obongifiolius STEAMBANK BIRD'S-FOOT TREFOIL	OBL
	Ranunculus occidentalis BUTTERCUP	FACW
	Ranunculus orthorhynchus STRAIGHTBEAK BUTTERCUP	FACW
	Trifolium variegatum WHITEIP CLOVER	FACW

WATSON
APN 037-221-30

SEED MIX	BOTANICAL NAME COMMON NAME	WETLAND INDICATOR STATUS
MIX 037-221-30	Alopercurus saccatus PACIFIC FOXTAIL	OBL
	Camassia quamash SMALL CAMAS	FACW
	Deshampsia danthanoides ANNUAL HAIRGRASS	FACW
	Epilobium densiflorum DENSEFLOWER WILLOWHERB	OBL
	Glyceria occidentalis NORTHWESTERN MANNAGRASS	OBL
	Hordeum brachyantherum MEADOW BARLEY	FACW
	Lasthenia glabberimma SMOOTH GOLDFIELDS	OBL
	Lotus obongifiolius STEAMBANK BIRD'S-FOOT TREFOIL	OBL
	Ranunculus alismifolius PLANTLEAF BUTTERCUP	FACW
	Ranunculus occidentalis BUTTERCUP	FACW
	Ranunculus orthorhynchus STRAIGHTBEAK BUTTERCUP	FACW

WETLAND ESTABLISHMENT
GROUP 2

WETLAND RESTORATION
TYPE 3- OAK PLANTING
TYPE 4- HERBACEOUS WETLAND PLANTING

EROSION CONTROL SCHEDULE

NO SCALE

ECS-6

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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01	Men	101			

LICENSED LANDSCAPE ARCHITECT

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SEQUENCE	ITEM	MATERIAL DESCRIPTION	MATERIAL TYPE	APPLICATION RATE
STEP 1	HYDROSEED	SEED	--	-- LB/ACRE
		FIBER	WOOD	600 LB/ACRE
STEP 2	HYDROMULCH	FIBER	WOOD	600 LB/ACRE
		TACKIFIER	GUAR	200 LB/ACRE

WATSON
APN 037-250-05

SEED MIX	BOTANICAL NAME COMMON NAME	WETLAND INDICATOR STATUS
MIX 037-250-05	Lasthenia glabberimma SMOOTH GOLDFIELDS	OBL
	Trifolium variegatum WHITEIP CLOVER	FACW

WILDLANDS
APN 108-060-01

SEED MIX	BOTANICAL NAME COMMON NAME	WETLAND INDICATOR STATUS
MIX 108-060-01	Alopercurus saccatus PACIFIC FOXTAIL	FACW
	Camassia quamash SMALL CAMAS	FACW
	Danthonia californica CALIFORNIA OATGRASS	FACW
	Deshampsia danthanoides ANNUAL HAIRGRASS	FACW
	Hordeum brachyantherum MEADOW BARLEY	FACW
	Lasthenia glabberimma SMOOTH GOLDFIELDS	OBL
	Lotus obongiflolius STEAMBANK BIRD'S-FOOT TREFOIL	OBL
	Ranunculus occidentalis BUTTERCUP	FACW
	Ranunculus orthorhynchus STRAIGHTBEAK BUTTERCUP	FACW
	Trifolium variegatum WHITEIP CLOVER	FACW

WILDLANDS
APN 108-070-09

SEED MIX	BOTANICAL NAME COMMON NAME	WETLAND INDICATOR STATUS
MIX 108-070-09	Alopercurus saccatus PACIFIC FOXTAIL	FACW
	Camassia quamash SMALL CAMAS	FACW
	Danthonia californica CALIFORNIA OATGRASS	FACW
	Deshampsia danthanoides ANNUAL HAIRGRASS	FACW
	Hordeum brachyantherum MEADOW BARLEY	FACW
	Lasthenia glabberimma SMOOTH GOLDFIELDS	OBL
	Lotus obongiflolius STEAMBANK BIRD'S-FOOT TREFOIL	OBL
	Ranunculus occidentalis BUTTERCUP	FACW
	Ranunculus orthorhynchus STRAIGHTBEAK BUTTERCUP	FACW
	Trifolium variegatum WHITEIP CLOVER	FACW

WETLAND ESTABLISHMENT
GROUP 2

WETLAND RESTORATION
TYPE 3- OAK PLANTING
TYPE 4- HERBACEOUS WETLAND PLANTING

EROSION CONTROL SCHEDULE

NO SCALE

ECS-7

REVISED BY | DATE REVISED
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 03 - LANDSCAPE ARCHITECTURE

LAST REVISION 00-00-00 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 09:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Signature — Renewal Date — Date — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

SEED MIX TABLE-

NOTE:

* QUERCUS LOBATA APPLIES TO WETLAND RESTORATION (TYPE3) OAK PLANTING ONLY.

PRIMARY SEED SOURCE:
1) LITTLE LAKE VALLEY, 2) OUTLET CREEK BASIN, 3) EEL RIVER WATERSHED.

SECONDARY SEED SOURCE PER THE JEPSON MANUAL:
1) NORTH COAST SUBREGION, 2) OUTER NORTH COAST RANGES

WETLAND INDICATOR STATUS	DEFINITION
OBL	OBLIGATE, ALMOST ALWAYS OCCURS IN WETLANDS (>= 99%)
FACW	FACULATIVE WETLAND, USUALLY OCCURS IN WETLANDS (66-99%)
FAC+	FACULATIVE, CAN OCCUR IN WETLANDS. CAN TOLERATE WETTER CONDITIONS THEN FAC
FAC	FACULATIVE, EQUALLY LIKELY TO OCCUR IN WETLANDS/ NON-WETLANDS (34-66%)
FAC b	NOT ASSIGNED STATUS BUT APPEARS TO BE AT LEAST FAC

EROSION CONTROL SEQUENCE AND APPLICATION

SEQUENCE	ITEM	MATERIAL DESCRIPTION	MATERIAL TYPE	APPLICATION RATE
STEP 1	HYDROSEED	SEED	--	-- LB/ACRE
		FIBER	WOOD	600 LB/ACRE
STEP 2	HYDROMULCH	FIBER	WOOD	600 LB/ACRE
		TACKIFIER	GUAR	200 LB/ACRE

WILDLANDS
APN 108-070-08

SEED MIX	BOTANICAL NAME COMMON NAME	WETLAND INDICATOR STATUS
MIX 108-070-08	Alopercurus saccatus PACIFIC FOXTAIL	FACW
	Camassia quamash SMALL CAMAS	FACW
	Danthonia californica CALIFORNIA OATGRASS	FACW
	Deshampsia danthanoides ANNUAL HAIRGRASS	FACW
	Hordeum brachyantherum MEADOW BARLEY	FACW
	Lasthenia glabberimma SMOOTH GOLDFIELDS	OBL
	Lotus obongiflolius STEAMBANK BIRD'S-FOOT TREFOIL	OBL
	Ranunculus occidentalis BUTTERCUP	FACW
	Ranunculus orthorhynchus STRAIGHTBEAK BUTTERCUP	FACW
	Trifolium variegatum WHITETIP CLOVER	FACW

WILDLANDS
APN 108-020-07

SEED MIX	BOTANICAL NAME COMMON NAME	WETLAND INDICATOR STATUS
MIX 108-020-07	Alopercurus saccatus PACIFIC FOXTAIL	FACW
	Camassia quamash SMALL CAMAS	FACW
	Danthonia californica CALIFORNIA OATGRASS	FACW
	Deshampsia danthanoides ANNUAL HAIRGRASS	FACW
	Hordeum brachyantherum MEADOW BARLEY	FACW
	Lasthenia glabberimma SMOOTH GOLDFIELDS	OBL
	Lotus obongiflolius STEAMBANK BIRD'S-FOOT TREFOIL	OBL
	Ranunculus occidentalis BUTTERCUP	FACW
	Ranunculus orthorhynchus STRAIGHTBEAK BUTTERCUP	FACW
	Trifolium variegatum WHITETIP CLOVER	FACW

WILDLANDS
APN 108-030-08

SEED MIX	BOTANICAL NAME COMMON NAME	WETLAND INDICATOR STATUS
MIX 108-030-08	Alopercurus saccatus PACIFIC FOXTAIL	FACW
	Camassia quamash SMALL CAMAS	FACW
	Danthonia californica CALIFORNIA OATGRASS	FACW
	Deshampsia danthanoides ANNUAL HAIRGRASS	FACW
	Hordeum brachyantherum MEADOW BARLEY	FACW
	Lasthenia glabberimma SMOOTH GOLDFIELDS	OBL
	Lotus obongiflolius STEAMBANK BIRD'S-FOOT TREFOIL	OBL
	Ranunculus occidentalis BUTTERCUP	FACW
	Ranunculus orthorhynchus STRAIGHTBEAK BUTTERCUP	FACW
	Trifolium variegatum WHITETIP CLOVER	FACW

WETLAND ESTABLISHMENT
GROUP 2

WETLAND RESTORATION
TYPE 3- OAK PLANTING
TYPE 4- HERBACEOUS WETLAND PLANTING

EROSION CONTROL SCHEDULE

NO SCALE

ECS-8

REVISED BY | DATE REVISED
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SENIOR LANDSCAPE ARCHITECT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 03 - LANDSCAPE ARCHITECTURE

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01	Men	101			

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PLANS APPROVAL DATE

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ABBREVIATIONS

AMEND — amendment
B & B — balled and burlapped
Dia — diameter
EA — each
lb — pound
oz. — ounce
Ft — foot/feet
SQFT — square feet
CF — cubic feet
Max — maximum
Min — minimum
NCN — no common name
No. — number
Pkt — packet
PLT ESTB- plant establishment
Pvmt — pavement
R/W — right of way
SF — state furnished
TRVD — traveled

NOTE:

Underlined portions of botanical name indicate abbreviations used on Planting Plans.

1. PLANT SIZE "T4" IS EQUIVALENT TO "TREE POT," 4" x 14."
2. PLANT SIZE No.1 IS EQUIVALENT TO "1 GALLON."
3. PLANT SIZE "LINER" IS EQUIVALENT TO "TREE BAND."

WETLAND INDICATOR STATUS	DEFINITION
OBL	Obligate, almost always occurs in wetlands (>= 99 %)
FACW	Faculative wetland, usually occurs in wetlands (66-99%)
FAC+	Faculative, can occur in wetlands. can tolerate wetter conditions then FAC
FAC	Faculative, equally likely to occur in wetlands / nonwetlands (34 - 66%)
FAC b	Not assigned status but appears to be at least FAC

PLANT LIST AND PLANTING SPECIFICATIONS - FOR WETLAND ESTABLISHMENT FORD (MIXED MARSH/ WET MEADOW) WEG1-1

PLANT GROUP	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY EACH	HOLE SIZE (INCH) Dia	HOLE SIZE (INCH) DEPTH	BASIN TYPE	IRON SULFATE	SOIL AMEND ①	COMMERCIAL FERTILIZER ① PLANTING	COMMERCIAL FERTILIZER ① PLT ESTB	BASIN MULCH	STAKING	PLANTING LIMITS MINIMUM DISTANCE (Ft) FROM TRVD WAY	PVMT	FENCE	WALL	PAVED DITCH	EARTH DITCH	ON CENTER (Ft)	REMARKS % MIX	WETLAND INDICATOR
MIXED MARSH																								
M	1		CAREX DENSA	DENSE SEDGE	LINER ⑦		4.5"	5"	I	-	-	40 g	-	-	-	-	-	-	-	-	-		10	OBL
	2		CAREX PRAEGRACILIS	FIELD SEDGE	LINER ⑦					-				-	-	-	-	-	-	-	-		10	FACW
	3		EUTHAMIA OCCIDENTALIS	WESTERN GOLDENROD	LINER ⑦					-				-	-	-	-	-	-	-	-		10	OBL
	4		JUNCUS BALTICUS	BALTIC RUSH	LINER ⑦					-				-	-	-	-	-	-	-	-		10	OBL
	5		JUNCUS PATENS	SPREADING RUSH	LINER ⑦					-				-	-	-	-	-	-	-	-		15	FAC
	6		RANUNCULUS OCCIDENTALIS	WESTERN BUTTERCUP	LINER ⑦					-				-	-	-	-	-	-	-	-		10	FACW
	7		SCIRPUS ACUTUS	TULE	LINER ⑦					-				-	-	-	-	-	-	-	-		25	OBL
	8		TYPHA LATIFOLIA	CATTAIL	LINER ⑦					-				-	-	-	-	-	-	-	-		10	FACW
WET MEADOW																								
M	9		ELEOCHARIS MACROSTACHYA	SPIKERUSH	LINER ⑦					-				-	-	-	-	-	-	-	-		20	OBL
	10		JUNCUS BALTICUS	BALTIC RUSH	LINER ⑦					-				-	-	-	-	-	-	-	-		20	OBL
	11		JUNCUS EFFUSUS	SOFT RUSH	LINER ⑦					-				-	-	-	-	-	-	-	-		15	OBL
	12		JUNCUS ENSIFOLIUS	SWORDLEAF RUSH	LINER ⑦					-				-	-	-	-	-	-	-	-		15	FACW
	13		JUNCUS PATENS	SPREADING RUSH	LINER ⑦					-				-	-	-	-	-	-	-	-		10	FAC
	14		JUNCUS PHAEOCHEPHALUS	BROWN HEADED RUSH	LINER ⑦					-				-	-	-	-	-	-	-	-		10	NI
	15		LEYMUS TRITICOIDES	CREEPING RYE GRASS	LINER ⑦		4.5"	5"	I	-	-	40 g	-	-	-	-	-	-	-	-	-		10	FAC
																						TOTAL	100	

APPLICABLE WHEN CIRCLED:

① - Quantities shown are "per plant" unless shown as SQFT or SQYD application rates
2 - Basin mulch is included with mulch quantities shown on Planting Plan
3 - Sufficient to receive root ball and amendments if required
4 - See Detail
5 - See Special Provisions
6 - See Standard Specifications
⑦ - As shown on plans
8 - Unless otherwise shown on plans
9 - Foliage Protector required
10 - Root Protector required
11 - Root Barrier required
12 - State-Furnished

DESIGN PLANS FOR OFFSITE MITIGATION WETLAND ESTABLISHMENT GROUP 1 PLANT LIST

NO SCALE

PL-1

REVISED BY | DATE REVISED | CALCULATED-DESIGNED BY | CHECKED BY | SENIOR LANDSCAPE ARCHITECT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 03 - LANDSCAPE ARCHITECTURE

LAST REVISION 00-00-00 | DATE PLOTTED => 02-OCT-2011 | TIME PLOTTED => 21:04

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01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Signature — Renewal Date — Date — STATE OF CALIFORNIA

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ABBREVIATIONS

AMEND — amendment
B & B — balled and burlapped
Dia — diameter
EA — each
lb — pound
oz. — ounce
Ft — foot/feet
SQFT — square feet
CF — cubic feet
Max — maximum
Min — minimum
NCN — no common name
No. — number
Pkt — packet
PLT ESTB- plant establishment
Pvmt — pavement
R/W — right of way
SF — state furnished
TRVD — traveled

NOTE:

Underlined portions of botanical name indicate abbreviations used on Planting Plans.

1. PLANT SIZE "T4" IS EQUIVALENT TO "TREE POT," 4" x 14."
2. PLANT SIZE No.1 IS EQUIVALENT TO "1 GALLON."
3. PLANT SIZE "LINER" IS EQUIVALENT TO "TREE BAND."

WETLAND INDICATOR STATUS	DEFINITION
OBL	Obligate, almost always occurs in wetlands (>= 99 %)
FACW	Faculative wetland, usually occurs in wetlands (66-99%)
FAC+	Faculative, can occur in wetlands. can tolerate wetter conditions then FAC
FAC	Faculative, equally likely to occur in wetlands / nonwetlands (34 - 66%)
FAC b	Not assigned status but appears to be at least FAC

PLANT LIST AND PLANTING SPECIFICATIONS - FOR WETLAND ESTABLISHMENT GOSS/ MGC PLASMA NORTH (WET MEADOW) WEG1-2

PLANT GROUP	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY EACH	HOLE SIZE (INCH) Dia	HOLE SIZE (INCH) DEPTH	BASIN TYPE	IRON SULFATE	SOIL AMEND ①	COMMERCIAL FERTILIZER ① PLANTING	COMMERCIAL FERTILIZER ① PLT ESTB	BASIN MULCH	STAKING	PLANTING LIMITS MINIMUM DISTANCE (Ft) FROM TRVD WAY	PVMT	FENCE	WALL	PAVED DITCH	EARTH DITCH	ON CENTER (Ft)	REMARKS % MIX	WETLAND INDICATOR
M	1		CAREX ATHROSTACHYA	SLENDER BEAK SEDGE	LINER ⑦		4.5"	5"	I	-	-	40 g	-	-	-	-	-	-	-	-	-		5	FACW
	2		CAREX DENSA	DENSE SEDGE	LINER ⑦					-				-	-	-	-	-	-	-	-		8	OBL
	3		CAREX PRAEGRACILIS	FIELD SAGE	LINER ⑦					-				-	-	-	-	-	-	-	-		5	FACW
	4		CAREX SUBBRACTEATA	SMALL BRACT SEDGE	LINER ⑦					-				-	-	-	-	-	-	-	-		5	FACW
	5		CAREX TUMULICOLA	FOOTHILL SAGE	LINER ⑦					-				-	-	-	-	-	-	-	-		5	FAC
	6		DANTHONIA CALIFORNICA	CALIFORNIA OATGRASS	LINER ⑦					-				-	-	-	-	-	-	-	-		8	FACW
	7		DESCHAMPSIA DANTHONIODES	ANNUAL HAIRGRASS	LINER ⑦					-				-	-	-	-	-	-	-	-		8	FACW
	8		HORDEUM BRACHYANTHERUM	MEADOW BARLEY	LINER ⑦					-				-	-	-	-	-	-	-	-		8	FACW
	9		JUNCUS BALTICUS	BALTIC RUSH	LINER ⑦					-				-	-	-	-	-	-	-	-		10	OBL
	10		JUNCUS ENSIFOLIUS	SWORDLEAF RUSH	LINER ⑦					-				-	-	-	-	-	-	-	-		10	FACW
	11		JUNCUS TENUIS	SLENDER RUSH	LINER ⑦					-				-	-	-	-	-	-	-	-		10	FACW
	12		JUNCUS PATENS	SPREADING RUSH	LINER ⑦					-				-	-	-	-	-	-	-	-		8	FAC
	13		RANUNCULUS OCCIDENTALIS	WESTERN BUTTERCUP	LINER ⑦		4.5"	5"	I	-	-	40 g		-	-	-	-	-	-	-	-		10	FACW
																						TOTAL	100	

APPLICABLE WHEN CIRCLED:

① - Quantities shown are "per plant" unless shown as SQFT or SQYD application rates
2 - Basin mulch is included with mulch quantities shown on Planting Plan
3 - Sufficient to receive root ball and amendments if required
4 - See Detail
5 - See Special Provisions
6 - See Standard Specifications
⑦ - As shown on plans
8 - Unless otherwise shown on plans
9 - Foliage Protector required
10 - Root Protector required
11 - Root Barrier required
12 - State-Furnished

DESIGN PLANS FOR OFFSITE MITIGATION WETLAND ESTABLISHMENT GROUP 1 PLANT LIST

NO SCALE

PL-2

REVISED BY | DATE REVISED
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ABBREVIATIONS

AMEND — amendment
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Dia — diameter
EA — each
lb — pound
oz. — ounce
Ft — foot/feet
SQFT — square feet
CF — cubic feet
Max — maximum
Min — minimum
NCN — no common name
No. — number
Pkt — packet
PLT ESTB- plant establishment
Pvmt — pavement
R/W — right of way
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NOTE:

Underlined portions of botanical name indicate abbreviations used on Planting Plans.

1. PLANT SIZE "T4" IS EQUIVALENT TO "TREE POT," 4" x 14."
2. PLANT SIZE No.1 IS EQUIVALENT TO "1 GALLON."
3. PLANT SIZE "LINER" IS EQUIVALENT TO "TREE BAND."

WETLAND INDICATOR STATUS	DEFINITION
OBL	Obligate, almost always occurs in wetlands (>= 99 %)
FACW	Faculative wetland, usually occurs in wetlands (66-99%)
FAC+	Faculative, can occur in wetlands. can tolerate wetter conditions then FAC
FAC	Faculative, equally likely to occur in wetlands / nonwetlands (34 - 66%)
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PLANT LIST AND PLANTING SPECIFICATIONS - FOR WETLAND ESTABLISHMENT NIESEN (WET MEADOW) WEG1-3

PLANT GROUP	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY EACH	HOLE SIZE (INCH) Dia	HOLE SIZE (INCH) DEPTH	BASIN TYPE	IRON SULFATE	SOIL AMEND ①	COMMERCIAL FERTILIZER ① PLANTING	COMMERCIAL FERTILIZER ① PLT ESTB	BASIN MULCH	STAKING	PLANTING LIMITS MINIMUM DISTANCE (Ft) FROM TRVD WAY	PVMT	FENCE	WALL	PAVED DITCH	EARTH DITCH	ON CENTER (Ft)	REMARKS % MIX	WETLAND INDICATOR
M	1		CAREX ATHROSTACHYA	SLENDER BEAK SEDGE	LINER ⑦		4.5"	5"	I	-	-	40 g	-	-	-	-	-	-	-	-	-		5	FACW
	2		CAREX DENSA	DENSE SEDGE	LINER ⑦					-				-	-	-	-	-	-	-	-		10	OBL
	3		CAREX PRAEGRACILIS	FIELD SAGE	LINER ⑦					-				-	-	-	-	-	-	-	-		5	FACW
	4		CAREX SUBBRACETETA	SMALL BRACT SEDGE	LINER ⑦					-				-	-	-	-	-	-	-	-		5	FACW
	5		CAREX TUMULICOLA	FOOTHILL SEDGE	LINER ⑦					-				-	-	-	-	-	-	-	-		5	FAC
	6		DANTHONIA CALIFORNICA	CALIFORNIA OATGRASS	LINER ⑦					-				-	-	-	-	-	-	-	-		5	FACW
	7		DESCHAMPSIA DANTHONIODES	ANNUAL HAIRGRASS	LINER ⑦					-				-	-	-	-	-	-	-	-		5	FACW
	8		EUTHAMIA OCCIDENTALIS	WESTERN GOLDENROD	LINER ⑦					-				-	-	-	-	-	-	-	-		5	OBL
	9		HORDEUM BRACHYANTHERUM	MEADOW BARLEY	LINER ⑦					-				-	-	-	-	-	-	-	-		5	FACW
	10		JUNCUS BALTICUS	BALTIC RUSH	LINER ⑦					-				-	-	-	-	-	-	-	-		10	OBL
	11		JUNCUS ENSIFOLIUS	SWORDLEAF RUSH	LINER ⑦					-				-	-	-	-	-	-	-	-		10	FACW
	12		JUNCUS PATENS	SPREADING RUSH	LINER ⑦					-				-	-	-	-	-	-	-	-		10	FAC
	13		JUNCUS TENUIS	SLENDER RUSH	LINER ⑦					-				-	-	-	-	-	-	-	-		10	FACW
	14		RANUNCULUS OCCIDENTALIS	WESTERN BUTTERCUP	LINER ⑦		4.5"	5"	I	-	-	40 g		-	-	-	-	-	-	-	-		10	FACW
																						TOTAL	100	

APPLICABLE WHEN CIRCLED:

① - Quantities shown are "per plant" unless shown as SQFT or SQYD application rates
2 - Basin mulch is included with mulch quantities shown on Planting Plan
3 - Sufficient to receive root ball and amendments if required
4 - See Detail
5 - See Special Provisions
6 - See Standard Specifications
7 - As shown on plans
8 - Unless otherwise shown on plans
9 - Foliage Protector required
10 - Root Protector required
11 - Root Barrier required
12 - State-Furnished

DESIGN PLANS FOR OFFSITE MITIGATION WETLAND ESTABLISHMENT GROUP 1 PLANT LIST

NO SCALE

PL-3

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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B & B — balled and burlapped
Dia — diameter
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lb — pound
oz. — ounce
Ft — foot/feet
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NCN — no common name
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Pkt — packet
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NOTE:

Underlined portions of botanical name indicate abbreviations used on Planting Plans.

1. PLANT SIZE "T4" IS EQUIVALENT TO "TREE POT," 4" x 14."
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3. PLANT SIZE "LINER" IS EQUIVALENT TO "TREE BAND."

WETLAND INDICATOR STATUS	DEFINITION
OBL	Obligate, almost always occurs in wetlands (>= 99 %)
FACW	Faculative wetland, usually occurs in wetlands (66-99%)
FAC+	Faculative, can occur in wetlands. can tolerate wetter conditions then FAC
FAC	Faculative, equally likely to occur in wetlands / nonwetlands (34 - 66%)
FAC b	Not assigned status but appears to be at least FAC

PLANT LIST AND PLANTING SPECIFICATIONS - FOR WETLAND ESTABLISHMENT WATSON (WET MEADOW) WEG1-4

PLANT GROUP	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY EACH	HOLE SIZE (INCH) Dia	HOLE SIZE (INCH) DEPTH	BASIN TYPE	IRON SULFATE	SOIL AMEND ①	COMMERCIAL FERTILIZER ① PLANTING	COMMERCIAL FERTILIZER ① PLT ESTB	BASIN MULCH	STAKING	PLANTING LIMITS MINIMUM DISTANCE (Ft) FROM TRVD WAY	PVMT	FENCE	WALL	PAVED DITCH	EARTH DITCH	ON CENTER (Ft)	REMARKS % MIX	REMARKS WETLAND INDICATOR
M	1		CAMASSIA QUAMASH	CAMAS LILY	LINER ⑦		4.5"	5"	I	-	-	40 g	-	-	-	-	-	-	-	-	-		5	FACW
	2		CAREX DENSA	DENSE SEDGE	LINER ⑦					-				-	-	-	-	-	-	-	-		5	OBL
	3		CAREX PRAEGRACILIS	FIELD SEDGE	LINER ⑦					-				-	-	-	-	-	-	-	-		10	FACW
	4		CAREX TUMULICOLA	FOOTHILL SEDGE	LINER ⑦					-				-	-	-	-	-	-	-	-		10	FAC
	5		CAREX UNILATERALIS	LATERAL SEDGE	LINER ⑦					-				-	-	-	-	-	-	-	-		5	FAC
	6		DANTHONIA CALIFORNICA	CALIFORNIA OATGRASS	LINER ⑦					-				-	-	-	-	-	-	-	-		5	FACW
	7		DESCHAMPSIA DANTHONIODES	ANNUAL HAIRGRASS	LINER ⑦					-				-	-	-	-	-	-	-	-		5	FACW
	8		HORDEUM BRACHYANTHERUM	MEADOW BARLEY	LINER ⑦					-				-	-	-	-	-	-	-	-		5	FACW
	9		JUNCUS BALTICUS	BALTIC RUSH	LINER ⑦					-				-	-	-	-	-	-	-	-		5	OBL
	10		JUNCUS ENSIFOLIUS	SWORDLEAF RUSH	LINER ⑦					-				-	-	-	-	-	-	-	-		10	FACW
	11		JUNCUS PATENS	SPREADING RUSH	LINER ⑦					-				-	-	-	-	-	-	-	-		5	FAC
	12		JUNCUS PHAEOCEPHALUS	BROWN HEADED RUSH	LINER ⑦					-				-	-	-	-	-	-	-	-		10	FACW
	13		JUNCUS TENUIS	SLENDER RUSH	LINER ⑦					-				-	-	-	-	-	-	-	-		10	FACW
	14		RANUNCULUS OCCIDENTALIS	WESTERN BUTTERCUP	LINER ⑦		4.5"	5"	I	-	-	40 g		-	-	-	-	-	-	-	-		10	FACW
																						TOTAL	100	

APPLICABLE WHEN CIRCLED:

① - Quantities shown are "per plant" unless shown as SQFT or SQYD application rates
2 - Basin mulch is included with mulch quantities shown on Planting Plan
3 - Sufficient to receive root ball and amendments if required
4 - See Detail
5 - See Special Provisions
6 - See Standard Specifications
7 - As shown on plans
8 - Unless otherwise shown on plans
9 - Foliage Protector required
10 - Root Protector required
11 - Root Barrier required
12 - State-Furnished

DESIGN PLANS FOR OFFSITE MITIGATION WETLAND ESTABLISHMENT GROUP 1 PLANT LIST

NO SCALE

PL-4

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PLANT LIST AND PLANTING SPECIFICATIONS

NOTE:

* QUERCUS LOBATA APPLIES TO
WETLAND RESTORATION (TYPE3) OAK PLANTING ONLY.

WETLAND INDICATOR STATUS	DEFINITION
OBL	Obligate, almost always occurs in wetlands (>= 99 %)
FACW	Faculative wetland, usually occurs in wetlands (66-99%)
FAC+	Faculative, can occur in wetlands. can tolerate wetter conditions then FAC
FAC	Faculative, equally likely to occur in wetlands / nonwetlands (34 - 66%)
FAC b	Not assigned status but appears to be at least FAC

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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Date
STATE OF CALIFORNIA

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BENBOW
APN 108-020-06

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Carex athrostachya SLENDERBEAK SEDGE	FACW
Carex densa DENSE SEDGE	OBL
Carex preagracilis CLUSTERED FIELD SEDGE	FACW
Eleocharis macrostachya PALE SPIKERUSH	OBL
Juncus occidentalis WESTERN RUSH	FACW
Juncus patens COMMON RUSH	FACW
Juncus tenuis SLENDER RUSH	FACW
Plagiobothrys stipitatus STALKED POPCORNFLOWER	OBL
Pleuropogon davyii ANNUAL SEMAPHOREGRASS	OBL
*QUERCUS LOBATA VALLEY OAK	FAC

BENBOW
APN 108-040-13

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Carex athrostachya SLENDERBEAK SEDGE	FACW
Carex densa DENSE SEDGE	OBL
Carex preagracilis CLUSTERED FIELD SEDGE	FACW
Eleocharis macrostachya PALE SPIKERUSH	OBL
Juncus occidentalis WESTERN RUSH	FACW
Juncus patens COMMON RUSH	FACW
Juncus tenuis SLENDER RUSH	FACW
Plagiobothrys stipitatus STALKED POPCORNFLOWER	OBL
Pleuropogon davyii ANNUAL SEMAPHOREGRASS	OBL
*QUERCUS LOBATA VALLEY OAK	FAC

BENBOW
APN 108-030-07

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Carex athrostachya SLENDERBEAK SEDGE	FACW
Carex densa DENSE SEDGE	OBL
Carex preagracilis CLUSTERED FIELD SEDGE	FACW
Juncus occidentalis WESTERN RUSH	FACW
Juncus patens COMMON RUSH	FACW
Juncus tenuis SLENDER RUSH	FACW
*QUERCUS LOBATA VALLEY OAK	FAC

WETLAND ESTABLISHMENT
GROUP 2

WETLAND RESTORATION
TYPE 3- OAK PLANTING
TYPE 4- HERBACEOUS WETLAND PLANTING

NO SCALE

PLANT LIST
PL-5

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PLANT LIST AND PLANTING SPECIFICATIONS

NOTE:

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WETLAND RESTORATION (TYPE3) OAK PLANTING ONLY.

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FAC b	Not assigned status but appears to be at least FAC

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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Date
STATE OF CALIFORNIA

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BENBOW
APN 007-010-04

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Carex athrostachya SLENDERBEAK SEDGE	FACW
Carex densa DENSE SEDGE	OBL
Carex preagracilis CLUSTERED FIELD SEDGE	FACW
Eleocharis macrostachya PALE SPIKERUSH	OBL
Juncus occidentalis WESTERN RUSH	FACW
Juncus patens COMMON RUSH	FACW
Juncus tenuis SLENDER RUSH	FACW
Plagiobothrys stipitatus STALKED POPCORNFLOWER	OBL
Pleuropogon davyii ANNUAL SEMAPHOREGRASS	OBL
*QUERCUS LOBATA VALLEY OAK	FAC

BENBOW
APN 007-020-03

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Carex athrostachya SLENDERBEAK SEDGE	FACW
Carex densa DENSE SEDGE	OBL
Carex preagracilis CLUSTERED FIELD SEDGE	FACW
Eleocharis macrostachya PALE SPIKERUSH	OBL
Juncus occidentalis WESTERN RUSH	FACW
Juncus patens COMMON RUSH	FACW
Juncus tenuis SLENDER RUSH	FACW
Plagiobothrys stipitatus STALKED POPCORNFLOWER	OBL
Pleuropogon davyii ANNUAL SEMAPHOREGRASS	OBL
*QUERCUS LOBATA VALLEY OAK	FAC

WETLAND ESTABLISHMENT
GROUP 2

WETLAND RESTORATION
TYPE 3- OAK PLANTING
TYPE 4- HERBACEOUS WETLAND PLANTING

NO SCALE

PLANT LIST
PL-6

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PLANT LIST AND PLANTING SPECIFICATIONS

NOTE:

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WETLAND RESTORATION (TYPE3) OAK PLANTING ONLY.

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01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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Date
STATE OF CALIFORNIA

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FORD
APN 108-010-06

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Carex athrostachya SLENDERBEAK SEDGE	FACW
Carex densa DENSE SEDGE	OBL
Carex preagracilis CLUSTERED FIELD SEDGE	FACW
Eleocharis macrostachya PALE SPIKERUSH	OBL
Juncus occidentalis WESTERN RUSH	FACW
Juncus patens COMMON RUSH	FACW
Juncus phaeocephalus BROWNHEAD RUSH	FACW
Juncus tenuis SLENDER RUSH	FACW
Juncus xiphioides IRISLEAF RUSH	FACW
Plagiobothrys stipitatus STALKED POPCORNFLOWER	OBL
Pleuropogon davyii ANNUAL SEMAPHOREGRASS	OBL
*QUERCUS LOBATA VALLEY OAK	FAC

FORD
APN 108-020-04

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Carex athrostachya SLENDERBEAK SEDGE	FACW
Carex densa DENSE SEDGE	OBL
Carex preagracilis CLUSTERED FIELD SEDGE	FACW
Eleocharis macrostachya PALE SPIKERUSH	OBL
Juncus occidentalis WESTERN RUSH	FACW
Juncus patens COMMON RUSH	FACW
Juncus phaeocephalus BROWNHEAD RUSH	FACW
Juncus tenuis SLENDER RUSH	OBL
Juncus xiphioides IRISLEAF RUSH	OBL
Plagiobothrys stipitatus STALKED POPCORNFLOWER	OBL
Pleuropogon davyii ANNUAL SEMAPHOREGRASS	FACW
*QUERCUS LOBATA VALLEY OAK	FAC

FORD
APN 108-030-02

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Carex athrostachya SLENDERBEAK SEDGE	FACW
Carex densa DENSE SEDGE	OBL
Carex preagracilis CLUSTERED FIELD SEDGE	FACW
Eleocharis macrostachya PALE SPIKERUSH	OBL
Juncus occidentalis WESTERN RUSH	FACW
Juncus patens COMMON RUSH	FACW
Juncus tenuis SLENDER RUSH	FACW
Plagiobothrys stipitatus STALKED POPCORNFLOWER	OBL
Pleuropogon davyii ANNUAL SEMAPHOREGRASS	OBL
*QUERCUS LOBATA VALLEY OAK	FAC

FORD
APN 108-030-05

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Carex athrostachya SLENDERBEAK SEDGE	FACW
Carex densa DENSE SEDGE	OBL
Carex preagracilis CLUSTERED FIELD SEDGE	FACW
Eleocharis macrostachya PALE SPIKERUSH	OBL
Juncus occidentalis WESTERN RUSH	FACW
Juncus patens COMMON RUSH	FACW
Juncus phaeocephalus BROWNHEAD RUSH	FACW
Juncus tenuis SLENDER RUSH	FACW
Juncus xiphioides IRISLEAF RUSH	OBL
Plagiobothrys stipitatus STALKED POPCORNFLOWER	OBL
Pleuropogon davyii ANNUAL SEMAPHOREGRASS	OBL
*QUERCUS LOBATA VALLEY OAK	FAC

WETLAND ESTABLISHMENT
GROUP 2

WETLAND RESTORATION
TYPE 3- OAK PLANTING
TYPE 4- HERBACEOUS WETLAND PLANTING

NO SCALE

PLANT LIST

PL-7

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PLANT LIST AND PLANTING SPECIFICATIONS

NOTE:

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WETLAND RESTORATION (TYPE3) OAK PLANTING ONLY.

WETLAND INDICATOR STATUS	DEFINITION
OBL	Obligate, almost always occurs in wetlands (>= 99 %)
FACW	Faculative wetland, usually occurs in wetlands (66-99%)
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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Renewal Date
Date
STATE OF CALIFORNIA

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FROST
APN 108-070-04

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Carex athrostachya SLENDERBEAK SEDGE	FACW
Carex densa DENSE SEDGE	OBL
Carex preagracilis CLUSTERED FIELD SEDGE	FACW
Eleocharis macrostachya PALE SPIKERUSH	OBL
Juncus occidentalis WESTERN RUSH	FACW
Juncus patens COMMON RUSH	FACW
Juncus tenuis SLENDER RUSH	FACW
Plagiobothrys stipitatus STALKED POPCORNFLOWER	OBL
Pleuropogon davyii ANNUAL SEMAPHOREGRASS	OBL
*QUERCUS LOBATA VALLEY OAK	FAC

GOSS
APN 103-230-02

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Carex athrostachya SLENDERBEAK SEDGE	FACW
Carex densa DENSE SEDGE	OBL
Carex preagracilis CLUSTERED FIELD SEDGE	FACW
Eleocharis macrostachya PALE SPIKERUSH	OBL
Juncus occidentalis WESTERN RUSH	FACW
Juncus patens COMMON RUSH	FACW
Juncus tenuis SLENDER RUSH	FACW
Plagiobothrys stipitatus STALKED POPCORNFLOWER	OBL
Pleuropogon davyii ANNUAL SEMAPHOREGRASS	OBL
*QUERCUS LOBATA VALLEY OAK	FAC

LUSHER
APN 108-030-04

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Carex athrostachya SLENDERBEAK SEDGE	FACW
Carex densa DENSE SEDGE	OBL
Carex preagracilis CLUSTERED FIELD SEDGE	FACW
Eleocharis macrostachya PALE SPIKERUSH	OBL
Juncus occidentalis WESTERN RUSH	FACW
Juncus patens COMMON RUSH	FACW
Juncus phaeocephalus BROWNHEAD RUSH	FACW
Juncus tenuis SLENDER RUSH	FACW
Plagiobothrys stipitatus STALKED POPCORNFLOWER	OBL
Pleuropogon davyii ANNUAL SEMAPHOREGRASS	OBL
*QUERCUS LOBATA VALLEY OAK	FAC

WETLAND ESTABLISHMENT
GROUP 2

WETLAND RESTORATION
TYPE 3- OAK PLANTING
TYPE 4- HERBACEOUS WETLAND PLANTING

NO SCALE

PLANT LIST
PL-8

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PLANT LIST AND PLANTING SPECIFICATIONS

NOTE:

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WETLAND RESTORATION (TYPE3) OAK PLANTING ONLY.

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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Signature
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MGC PLASMA - NORTH
APN 103-230-06

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Carex athrostachya SLENDERBEAK SEDGE	FACW
Carex densa DENSE SEDGE	OBL
Carex preagracilis CLUSTERED FIELD SEDGE	FACW
Eleocharis macrostachya PALE SPIKERUSH	OBL
Juncus occidentalis WESTERN RUSH	FACW
Juncus patens COMMON RUSH	FACW
Juncus tenuis SLENDER RUSH	FACW
Plagiobothrys stipitatus STALKED POPCORNFLOWER	OBL
Pleuropogon davyii ANNUAL SEMAPHOREGRASS	OBL
*QUERCUS LOBATA VALLEY OAK	FAC

MGC PLASMA - MIDDLE
APN 103-250-14

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Carex athrostachya SLENDERBEAK SEDGE	FACW
Carex densa DENSE SEDGE	OBL
Carex preagracilis CLUSTERED FIELD SEDGE	FACW
Eleocharis macrostachya PALE SPIKERUSH	OBL
Juncus occidentalis WESTERN RUSH	FACW
Juncus patens COMMON RUSH	FACW
Juncus tenuis SLENDER RUSH	FACW
Plagiobothrys stipitatus STALKED POPCORNFLOWER	OBL
Pleuropogon davyii ANNUAL SEMAPHOREGRASS	OBL
*QUERCUS LOBATA VALLEY OAK	FAC

NIESEN
APN 108-040-02

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Carex athrostachya SLENDERBEAK SEDGE	FACW
Carex densa DENSE SEDGE	OBL
Carex preagracilis CLUSTERED FIELD SEDGE	FACW
Eleocharis macrostachya PALE SPIKERUSH	OBL
Juncus occidentalis WESTERN RUSH	FACW
Juncus patens COMMON RUSH	FACW
Juncus tenuis SLENDER RUSH	FACW
Plagiobothrys stipitatus STALKED POPCORNFLOWER	OBL
Pleuropogon davyii ANNUAL SEMAPHOREGRASS	OBL
*QUERCUS LOBATA VALLEY OAK	FAC

WETLAND ESTABLISHMENT
GROUP 2

WETLAND RESTORATION
TYPE 3- OAK PLANTING
TYPE 4- HERBACEOUS WETLAND PLANTING

NO SCALE

PLANT LIST
PL-9

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PLANT LIST AND PLANTING SPECIFICATIONS

NOTE:

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WETLAND RESTORATION (TYPE3) OAK PLANTING ONLY.

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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Renewal Date
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WATSON - EAST
APN 037-221-30

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Carex densa DENSE SEDGE	OBL
Carex nebrascensis NEBRASKA SEDGE	OBL
Carex obnupta SLOUGH SEDGE	OBL
Carex preagracilis CLUSTERED FIELD SEDGE	FACW
Eleocharis macrostachya PALE SPIKERUSH	OBL
Juncu effuses SOFT RUSH	OBL
Juncus occidentalis WESTERN RUSH	FACW
Juncus patens COMMON RUSH	FAC
Juncus phaeocephalus BROWNHEAD RUSH	FACW
Juncus tenuis SLENDER RUSH	FACW
Juncus xiphioides IRISLEAF RUSH	OBL
Plagiobothrys stipitatus STALKED POPCORNFLOWER	OBL
Pleuropogon davyii ANNUAL SEMAPHOREGRASS	OBL
*QUERCUS LOBATA VALLEY OAK	FAC

WATSON - WEST
APN 037-250-05

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Eleocharis macrostachya PALE SPIKERUSH	OBL
Plagiobothrys stipitatus STALKED POPCORNFLOWER	OBL
Pleuropogon davyii ANNUAL SEMAPHOREGRASS	OBL
*QUERCUS LOBATA VALLEY OAK	FAC

WETLAND ESTABLISHMENT
GROUP 2

WETLAND RESTORATION
TYPE 3- OAK PLANTING
TYPE 4- HERBACEOUS WETLAND PLANTING

NO SCALE

PLANT LIST

PL-10

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PLANT LIST AND PLANTING SPECIFICATIONS

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WETLAND RESTORATION (TYPE3) OAK PLANTING ONLY.

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01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

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WILDLANDS
APN 108-060-01

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Carex athrostachya SLENDERBEAK SEDGE	FACW
Carex densa DENSE SEDGE	OBL
Carex preagracilis CLUSTERED FIELD SEDGE	FACW
Eleocharis macrostachya PALE SPIKERUSH	OBL
Juncus occidentalis WESTERN RUSH	FACW
Juncus patens COMMON RUSH	FACW
Juncus tenuis SLENDER RUSH	FACW
Plagiobothrys stipitatus STALKED POPCORNFLOWER	OBL
Pleuropogon davyii ANNUAL SEMAPHOREGRASS	OBL
*QUERCUS LOBATA VALLEY OAK	FAC

WILDLANDS
APN 108-070-09

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Carex athrostachya SLENDERBEAK SEDGE	FACW
Carex densa DENSE SEDGE	OBL
Carex preagracilis CLUSTERED FIELD SEDGE	FACW
Eleocharis macrostachya PALE SPIKERUSH	OBL
Juncus occidentalis WESTERN RUSH	FACW
Juncus patens COMMON RUSH	FACW
Juncus tenuis SLENDER RUSH	FACW
Plagiobothrys stipitatus STALKED POPCORNFLOWER	OBL
Pleuropogon davyii ANNUAL SEMAPHOREGRASS	OBL
*QUERCUS LOBATA VALLEY OAK	FAC

WETLAND ESTABLISHMENT
GROUP 2

WETLAND RESTORATION
TYPE 3- OAK PLANTING
TYPE 4- HERBACEOUS WETLAND PLANTING

NO SCALE

PLANT LIST

PL-11

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PLANT LIST AND PLANTING SPECIFICATIONS

NOTE:

* QUERCUS LOBATA APPLIES TO
WETLAND RESTORATION (TYPE3) OAK PLANTING ONLY.

WETLAND INDICATOR STATUS	DEFINITION
OBL	Obligate, almost always occurs in wetlands (>= 99 %)
FACW	Faculative wetland, usually occurs in wetlands (66-99%)
FAC+	Faculative, can occur in wetlands. can tolerate wetter conditions then FAC
FAC	Faculative, equally likely to occur in wetlands / nonwetlands (34 - 66%)
FAC b	Not assigned status but appears to be at least FAC

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

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WILDLANDS
APN 108-070-08

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Carex athrostachya SLENDERBEAK SEDGE	FACW
Carex densa DENSE SEDGE	OBL
Carex preagracilis CLUSTERED FIELD SEDGE	FACW
Eleocharis macrostachya PALE SPIKERUSH	OBL
Juncus occidentalis WESTERN RUSH	FACW
Juncus patens COMMON RUSH	FACW
Juncus tenuis SLENDER RUSH	FACW
Plagiobothrys stipitatus STALKED POPCORNFLOWER	OBL
Pleuropogon davyii ANNUAL SEMAPHOREGRASS	OBL
*QUERCUS LOBATA VALLEY OAK	FAC

WILDLANDS
APN 108-020-07

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Carex athrostachya SLENDERBEAK SEDGE	FACW
Carex densa DENSE SEDGE	OBL
Carex preagracilis CLUSTERED FIELD SEDGE	FACW
Eleocharis macrostachya PALE SPIKERUSH	OBL
Juncus occidentalis WESTERN RUSH	FACW
Juncus patens COMMON RUSH	FACW
Juncus tenuis SLENDER RUSH	FACW
Plagiobothrys stipitatus STALKED POPCORNFLOWER	OBL
Pleuropogon davyii ANNUAL SEMAPHOREGRASS	OBL
*QUERCUS LOBATA VALLEY OAK	FAC

WILDLANDS
APN 108-030-08

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Carex athrostachya SLENDERBEAK SEDGE	FACW
Carex densa DENSE SEDGE	OBL
Carex preagracilis CLUSTERED FIELD SEDGE	FACW
Eleocharis macrostachya PALE SPIKERUSH	OBL
Juncus occidentalis WESTERN RUSH	FACW
Juncus patens COMMON RUSH	FACW
Juncus tenuis SLENDER RUSH	FACW
Plagiobothrys stipitatus STALKED POPCORNFLOWER	OBL
Pleuropogon davyii ANNUAL SEMAPHOREGRASS	OBL
*QUERCUS LOBATA VALLEY OAK	FAC

WETLAND ESTABLISHMENT
GROUP 2

WETLAND RESTORATION
TYPE 3- OAK PLANTING
TYPE 4- HERBACEOUS WETLAND PLANTING

NO SCALE

PLANT LIST
PL-12

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PLANT LIST AND PLANTING SPECIFICATIONS

NOTE:

* QUERCUS LOBATA APPLIES TO
WETLAND RESTORATION (TYPE3) OAK PLANTING ONLY.

WETLAND INDICATOR STATUS	DEFINITION
OBL	Obligate, almost always occurs in wetlands (>= 99 %)
FACW	Faculative wetland, usually occurs in wetlands (66-99%)
FAC+	Faculative, can occur in wetlands. can tolerate wetter conditions then FAC
FAC	Faculative, equally likely to occur in wetlands / nonwetlands (34 - 66%)
FAC b	Not assigned status but appears to be at least FAC

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

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BENBOW
APN 108-040-13

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Alnus rhombifolia WHITE ALDER	FACW
Artemesia douglasiana MUGWORT	FACW
Cornus sericiea RED OSIER DOGWOOD	FACW
Fraxinus latifolia OREGON ASH	FACW
Physocarpus capitatus PACIFIC NINEBARK	FACW
Quercus lobata VALLEY OAK	FAC
Rosa californica CALIFORNIA WILD ROSE	FAC+
Rubus ursinus CALIFORNIA BLACKBERRY	FACW
Salix exigua SANDBAR WILLOW	OBL
Salix lasiolepis ARROYO WILLOW	FACW
Salix lucida lasiandra PACIFIC WILLOW	OBL
Toxicodendron diversilobum WESTERN POISON OAK	

WETLAND REHABILITATION
TYPE 5- RIPARIAN WETLAND PLANTING

RIPARIAN CORRIDORS
OTHER WATERS (CREDIT)
OTHER WATERS (NO CREDIT)

NO SCALE

PLANT LIST

PL-13

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PLANT LIST AND PLANTING SPECIFICATIONS

NOTE:

* QUERCUS LOBATA APPLIES TO
WETLAND RESTORATION (TYPE3) OAK PLANTING ONLY.

WETLAND INDICATOR STATUS	DEFINITION
OBL	Obligate, almost always occurs in wetlands (>= 99 %)
FACW	Faculative wetland, usually occurs in wetlands (66-99%)
FAC+	Faculative, can occur in wetlands. can tolerate wetter conditions then FAC
FAC	Faculative, equally likely to occur in wetlands / nonwetlands (34 - 66%)
FAC b	Not assigned status but appears to be at least FAC

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

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BENBOW
APN 007-010-04

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Alnus rhombifolia WHITE ALDER	FACW
Artemesia douglasiana MUGWORT	FACW
Cornus sericiea RED OSIER DOGWOOD	FACW
Fraxinus latifolia OREGON ASH	FACW
Physocarpus capitatus PACIFIC NINEBARK	FACW
Quercus lobata VALLEY OAK	FAC
Rosa californica CALIFORNIA WILD ROSE	FAC+
Rubus ursinus CALIFORNIA BLACKBERRY	FACW
Salix exigua SANDBAR WILLOW	OBL
Salix lasiolepis ARROYO WILLOW	FACW
Salix lucida lasiandra PACIFIC WILLOW	OBL
Toxicodendron diversilobum WESTERN POISON OAK	

BENBOW
APN 007-020-03

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Alnus rhombifolia WHITE ALDER	FACW
Artemesia douglasiana MUGWORT	FACW
Cornus sericiea RED OSIER DOGWOOD	FACW
Fraxinus latifolia OREGON ASH	FACW
Physocarpus capitatus PACIFIC NINEBARK	FACW
Quercus lobata VALLEY OAK	FAC
Rosa californica CALIFORNIA WILD ROSE	FAC+
Rubus ursinus CALIFORNIA BLACKBERRY	FACW
Salix exigua SANDBAR WILLOW	OBL
Salix lasiolepis ARROYO WILLOW	FACW
Salix lucida lasiandra PACIFIC WILLOW	OBL
Toxicodendron diversilobum WESTERN POISON OAK	

WETLAND REHABILITATION
TYPE 5- RIPARIAN WETLAND PLANTING

RIPARIAN CORRIDORS
OTHER WATERS (CREDIT)
OTHER WATERS (NO CREDIT)

NO SCALE

PLANT LIST

PL-14

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PLANT LIST AND PLANTING SPECIFICATIONS

NOTE:

* QUERCUS LOBATA APPLIES TO
WETLAND RESTORATION (TYPE3) OAK PLANTING ONLY.

WETLAND INDICATOR STATUS	DEFINITION
OBL	Obligate, almost always occurs in wetlands (>= 99 %)
FACW	Faculative wetland, usually occurs in wetlands (66-99%)
FAC+	Faculative, can occur in wetlands. can tolerate wetter conditions then FAC
FAC	Faculative, equally likely to occur in wetlands / nonwetlands (34 - 66%)
FAC b	Not assigned status but appears to be at least FAC

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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Signature
Renewal Date
Date
STATE OF CALIFORNIA

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FORD
APN 108-010-06

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Alnus rhombifolia WHITE ALDER	FACW
Artemesia douglasiana MUGWORT	FACW
Cornus sericiea RED OSIER DOGWOOD	FACW
Fraxinus latifolia OREGON ASH	FACW
Physocarpus capitatus PACIFIC NINEBARK	FACW
Populus fremontii FREMONT COTTONWOOD	FACW
Quercus lobata VALLEY OAK	FAC
Rosa californica CALIFORNIA WILD ROSE	FAC+
Rubus ursinus CALIFORNIA BLACKBERRY	FACW
Salix exigua SANDBAR WILLOW	OBL
Salix lasiolepis ARROYO WILLOW	FACW
Salix lucida lasiandra PACIFIC WILLOW	OBL
Toxicodendron diversilobum WESTERN POISON OAK	

FORD
APN 108-020-04

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Alnus rhombifolia WHITE ALDER	FACW
Artemesia douglasiana MUGWORT	FACW
Cornus sericiea RED OSIER DOGWOOD	FACW
Fraxinus latifolia OREGON ASH	FACW
Physocarpus capitatus PACIFIC NINEBARK	FACW
Populus fremontii FREMONT COTTONWOOD	FACW
Quercus lobata VALLEY OAK	FAC
Rosa californica CALIFORNIA WILD ROSE	FAC+
Rubus ursinus CALIFORNIA BLACKBERRY	FACW
Salix exigua SANDBAR WILLOW	OBL
Salix lasiolepis ARROYO WILLOW	FACW
Salix lucida lasiandra PACIFIC WILLOW	OBL
Toxicodendron diversilobum WESTERN POISON OAK	

FORD
APN 108-030-02

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Alnus rhombifolia WHITE ALDER	FACW
Artemesia douglasiana MUGWORT	FACW
Cornus sericiea RED OSIER DOGWOOD	FACW
Fraxinus latifolia OREGON ASH	FACW
Physocarpus capitatus PACIFIC NINEBARK	FACW
Quercus lobata VALLEY OAK	FAC
Rosa californica CALIFORNIA WILD ROSE	FAC+
Rubus ursinus CALIFORNIA BLACKBERRY	FACW
Salix exigua SANDBAR WILLOW	OBL
Salix lasiolepis ARROYO WILLOW	FACW
Salix lucida lasiandra PACIFIC WILLOW	OBL
Toxicodendron diversilobum WESTERN POISON OAK	

FORD
APN 108-030-05

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Alnus rhombifolia WHITE ALDER	FACW
Artemesia douglasiana MUGWORT	FACW
Cornus sericiea RED OSIER DOGWOOD	FACW
Fraxinus latifolia OREGON ASH	FACW
Physocarpus capitatus PACIFIC NINEBARK	FACW
Quercus lobata VALLEY OAK	FAC
Rosa californica CALIFORNIA WILD ROSE	FAC+
Rubus ursinus CALIFORNIA BLACKBERRY	FACW
Salix exigua SANDBAR WILLOW	OBL
Salix lasiolepis ARROYO WILLOW	FACW
Salix lucida lasiandra PACIFIC WILLOW	OBL
Toxicodendron diversilobum WESTERN POISON OAK	

WETLAND REHABILITATION
TYPE 5- RIPARIAN WETLAND PLANTING

RIPARIAN CORRIDORS
OTHER WATERS (CREDIT)
OTHER WATERS (NO CREDIT)

NO SCALE

PLANT LIST

PL-15

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PLANT LIST AND PLANTING SPECIFICATIONS

NOTE:

* QUERCUS LOBATA APPLIES TO
WETLAND RESTORATION (TYPE3) OAK PLANTING ONLY.

WETLAND INDICATOR STATUS	DEFINITION
OBL	Obligate, almost always occurs in wetlands (>= 99 %)
FACW	Faculative wetland, usually occurs in wetlands (66-99%)
FAC+	Faculative, can occur in wetlands. can tolerate wetter conditions then FAC
FAC	Faculative, equally likely to occur in wetlands / nonwetlands (34 - 66%)
FAC b	Not assigned status but appears to be at least FAC

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

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LUSHER
APN 108-030-04

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Alnus rhombifolia WHITE ALDER	FACW
Artemesia douglasiana MUGWORT	FACW
Cornus sericiea RED OSIER DOGWOOD	FACW
Fraxinus latifolia OREGON ASH	FACW
Physocarpus capitatus PACIFIC NINEBARK	FACW
Quercus lobata VALLEY OAK	FAC
Rosa californica CALIFORNIA WILD ROSE	FAC+
Rubus ursinus CALIFORNIA BLACKBERRY	FACW
Salix exigua SANDBAR WILLOW	OBL
Salix lasiolepis ARROYO WILLOW	FACW
Salix lucida lasiandra PACIFIC WILLOW	OBL
Toxicodendron diversilobum WESTERN POISON OAK	

WETLAND REHABILITATION
TYPE 5- RIPARIAN WETLAND PLANTING

RIPARIAN CORRIDORS
OTHER WATERS (CREDIT)
OTHER WATERS (NO CREDIT)

NO SCALE

PLANT LIST
PL-16

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PLANT LIST AND PLANTING SPECIFICATIONS

NOTE:

* QUERCUS LOBATA APPLIES TO
WETLAND RESTORATION (TYPE3) OAK PLANTING ONLY.

WETLAND INDICATOR STATUS	DEFINITION
OBL	Obligate, almost always occurs in wetlands (>= 99 %)
FACW	Faculative wetland, usually occurs in wetlands (66-99%)
FAC+	Faculative, can occur in wetlands. can tolerate wetter conditions then FAC
FAC	Faculative, equally likely to occur in wetlands / nonwetlands (34 - 66%)
FAC b	Not assigned status but appears to be at least FAC

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
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NIESEN
APN 108-040-02

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Artemesia douglasiana MUGWORT	FACW
Cornus sericiea RED OSIER DOGWOOD	FACW
Rubus ursinus CALIFORNIA BLACKBERRY	FACW
Salix exigua SANDBAR WILLOW	OBL
Salix lasiolepis ARROYO WILLOW	FACW
Salix lucida lasiandra PACIFIC WILLOW	OBL

WETLAND REHABILITATION
TYPE 5- RIPARIAN WETLAND PLANTING

RIPARIAN CORRIDORS
OTHER WATERS (CREDIT)
OTHER WATERS (NO CREDIT)

NO SCALE

PLANT LIST
PL-17

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LAST REVISION 00-00-00 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 08:56

PLANT LIST AND PLANTING SPECIFICATIONS

NOTE:

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WETLAND RESTORATION (TYPE3) OAK PLANTING ONLY.

WETLAND INDICATOR STATUS	DEFINITION
OBL	Obligate, almost always occurs in wetlands (>= 99 %)
FACW	Faculative wetland, usually occurs in wetlands (66-99%)
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

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WATSON
APN 037-221-30

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Artemesia douglasiana MUGWORT	FACW
Cornus sericiea RED OSIER DOGWOOD	FACW
Fraxinus latifolia OREGON ASH	FACW
Rubus ursinus CALIFORNIA BLACKBERRY	FACW
Salix exigua SANDBAR WILLOW	OBL
Salix lasiolepis ARROYO WILLOW	FACW
Salix lucida lasiandra PACIFIC WILLOW	OBL

WETLAND REHABILITATION
TYPE 5- RIPARIAN WETLAND PLANTING

RIPARIAN CORRIDORS
OTHER WATERS (CREDIT)
OTHER WATERS (NO CREDIT)

NO SCALE

PLANT LIST

PL-18

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PLANT LIST AND PLANTING SPECIFICATIONS

NOTE:

* QUERCUS LOBATA APPLIES TO
WETLAND RESTORATION (TYPE3) OAK PLANTING ONLY.

WETLAND INDICATOR STATUS	DEFINITION
OBL	Obligate, almost always occurs in wetlands (>= 99 %)
FACW	Faculative wetland, usually occurs in wetlands (66-99%)
FAC+	Faculative, can occur in wetlands. can tolerate wetter conditions then FAC
FAC	Faculative, equally likely to occur in wetlands / nonwetlands (34 - 66%)
FAC b	Not assigned status but appears to be at least FAC

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

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WILDLANDS
APN 108-060-01

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Alnus rhombifolia WHITE ALDER	FACW
Artemesia douglasiana MUGWORT	FACW
Cornus sericiea RED OSIER DOGWOOD	FACW
Fraxinus latifolia OREGON ASH	FACW
Physocarpus capitatus PACIFIC NINEBARK	FACW
Quercus lobata VALLEY OAK	FAC
Rosa californica CALIFORNIA WILD ROSE	FAC+
Rubus ursinus CALIFORNIA BLACKBERRY	FACW
Salix exigua SANDBAR WILLOW	OBL
Salix lasiolepis ARROYO WILLOW	FACW
Salix lucida lasiandra PACIFIC WILLOW	OBL
Toxicodendron diversilobum WESTERN POISON OAK	

WILDLANDS
APN 108-070-09

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Alnus rhombifolia WHITE ALDER	FACW
Artemesia douglasiana MUGWORT	FACW
Fraxinus latifolia OREGON ASH	FACW
Physocarpus capitatus PACIFIC NINEBARK	FACW
Quercus lobata VALLEY OAK	FAC
Rosa californica CALIFORNIA WILD ROSE	FAC+
Rubus ursinus CALIFORNIA BLACKBERRY	FACW
Salix exigua SANDBAR WILLOW	OBL
Salix lasiolepis ARROYO WILLOW	FACW
Salix lucida lasiandra PACIFIC WILLOW	OBL
Toxicodendron diversilobum WESTERN POISON OAK	

WETLAND REHABILITATION
TYPE 5- RIPARIAN WETLAND PLANTING

RIPARIAN CORRIDORS
OTHER WATERS (CREDIT)
OTHER WATERS (NO CREDIT)

NO SCALE

PLANT LIST

PL-19

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PLANT LIST AND PLANTING SPECIFICATIONS

NOTE:

* QUERCUS LOBATA APPLIES TO
WETLAND RESTORATION (TYPE3) OAK PLANTING ONLY.

WETLAND INDICATOR STATUS	DEFINITION
OBL	Obligate, almost always occurs in wetlands (>= 99 %)
FACW	Faculative wetland, usually occurs in wetlands (66-99%)
FAC+	Faculative, can occur in wetlands. can tolerate wetter conditions then FAC
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

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WILDLANDS
APN 108-070-08

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Alnus rhombifolia WHITE ALDER	FACW
Artemesia douglasiana MUGWORT	FACW
Cornus sericiea RED OSIER DOGWOOD	FACW
Fraxinus latifolia OREGON ASH	FACW
Physocarpus capitatus PACIFIC NINEBARK	FACW
Quercus lobata VALLEY OAK	FAC
Rosa californica CALIFORNIA WILD ROSE	FAC+
Rubus ursinus CALIFORNIA BLACKBERRY	FACW
Salix exigua SANDBAR WILLOW	OBL
Salix lasiolepis ARROYO WILLOW	FACW
Salix lucida lasiandra PACIFIC WILLOW	OBL
Toxicodendron diversilobum WESTERN POISON OAK	

WILDLANDS
APN 108-020-07

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Alnus rhombifolia WHITE ALDER	FACW
Artemesia douglasiana MUGWORT	FACW
Cornus sericiea RED OSIER DOGWOOD	FACW
Fraxinus latifolia OREGON ASH	FACW
Physocarpus capitatus PACIFIC NINEBARK	FACW
Quercus lobata VALLEY OAK	FAC
Rosa californica CALIFORNIA WILD ROSE	FAC+
Rubus ursinus CALIFORNIA BLACKBERRY	FACW
Salix exigua SANDBAR WILLOW	OBL
Salix lasiolepis ARROYO WILLOW	FACW
Salix lucida lasiandra PACIFIC WILLOW	OBL
Toxicodendron diversilobum WESTERN POISON OAK	

WILDLANDS
APN 108-030-08

Botanical Name COMMON NAME	WETLAND INDICATOR STATUS
Alnus rhombifolia WHITE ALDER	FACW
Artemesia douglasiana MUGWORT	FACW
Cornus sericiea RED OSIER DOGWOOD	FACW
Fraxinus latifolia OREGON ASH	FACW
Physocarpus capitatus PACIFIC NINEBARK	FACW
Quercus lobata VALLEY OAK	FAC
Rosa californica CALIFORNIA WILD ROSE	FAC+
Rubus ursinus CALIFORNIA BLACKBERRY	FACW
Salix exigua SANDBAR WILLOW	OBL
Salix lasiolepis ARROYO WILLOW	FACW
Salix lucida lasiandra PACIFIC WILLOW	OBL
Toxicodendron diversilobum WESTERN POISON OAK	

WETLAND REHABILITATION
TYPE 5- RIPARIAN WETLAND PLANTING

RIPARIAN CORRIDORS
OTHER WATERS (CREDIT)
OTHER WATERS (NO CREDIT)

NO SCALE

PLANT LIST
PL-20

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
SENIOR LANDSCAPE ARCHITECT
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 03 - LANDSCAPE ARCHITECTURE

LAST REVISION 00-00-00 | DATE PLOTTED => 02-OCT-2011 TIME PLOTTED => 21:05

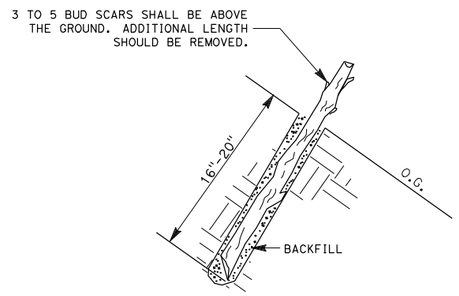
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101			

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

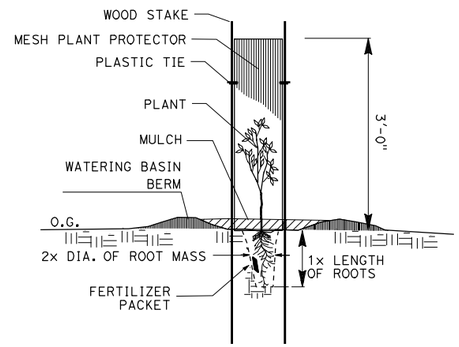
LICENSED LANDSCAPE ARCHITECT — Signature — Renewal Date — Date — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



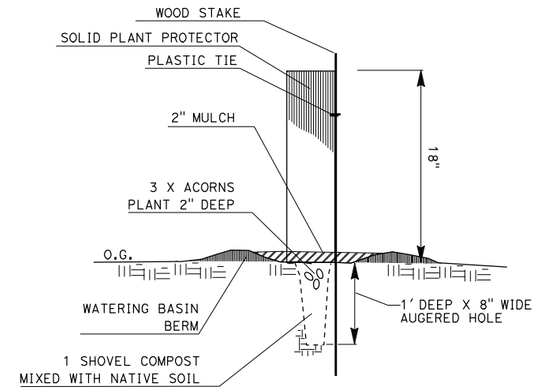
LIVE WILLOW CUTTING PLANTING DETAIL

SECTION



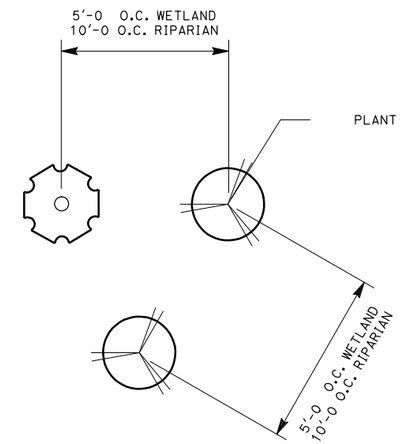
CONTAINERIZED PLANTING DETAIL

SECTION



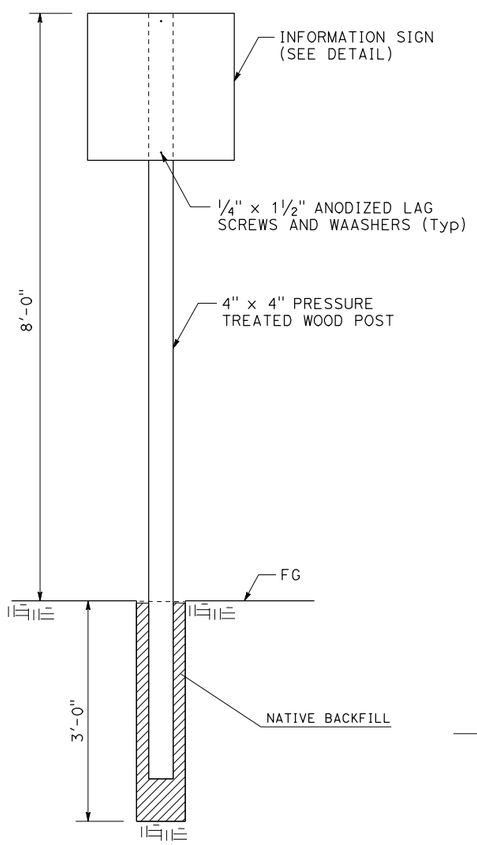
OAK ACORN PLANTING DETAIL

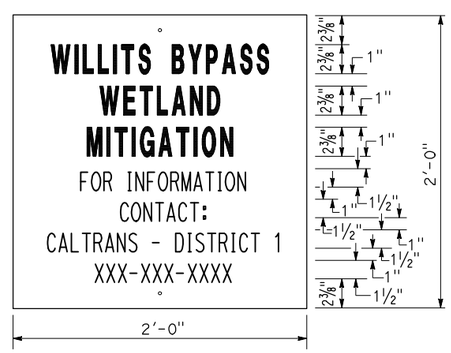
SECTION



CONTAINERIZED PLANT SPACING

PLAN

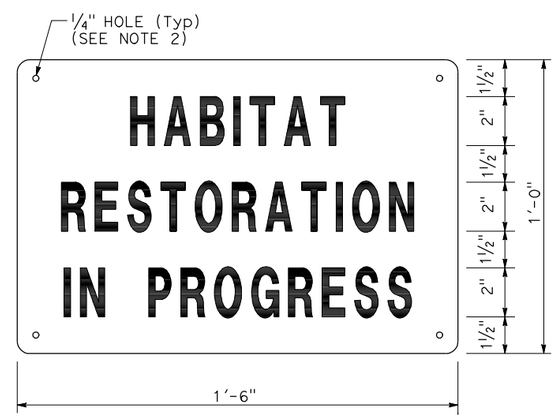




NOTE:

WHITE LETTERS ON BROWN BACKGROUND.

INFORMATION SIGN



NOTES:

1. BLACK LETTERS ON WHITE BACKGROUND.
2. ATTACH SIGN TO BARBED WIRE FENCE USING 11-GAUGE (Min) Galv TIE WIRE OR HIG RING

HABITAT RESTORATION SIGN

PLANTING DETAIL

NO SCALE

PD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® 03 - LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT

CALCULATED-DESIGNED BY | CHECKED BY

REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:25