ACNHP-Q101(266)E

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	48.0	1	20

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ADJACENT TO STATE HIGHWAY

IN MENDOCINO COUNTY NEAR WILLITS AT ASSESSOR'S PARCEL NUMBER 108-030-05-00

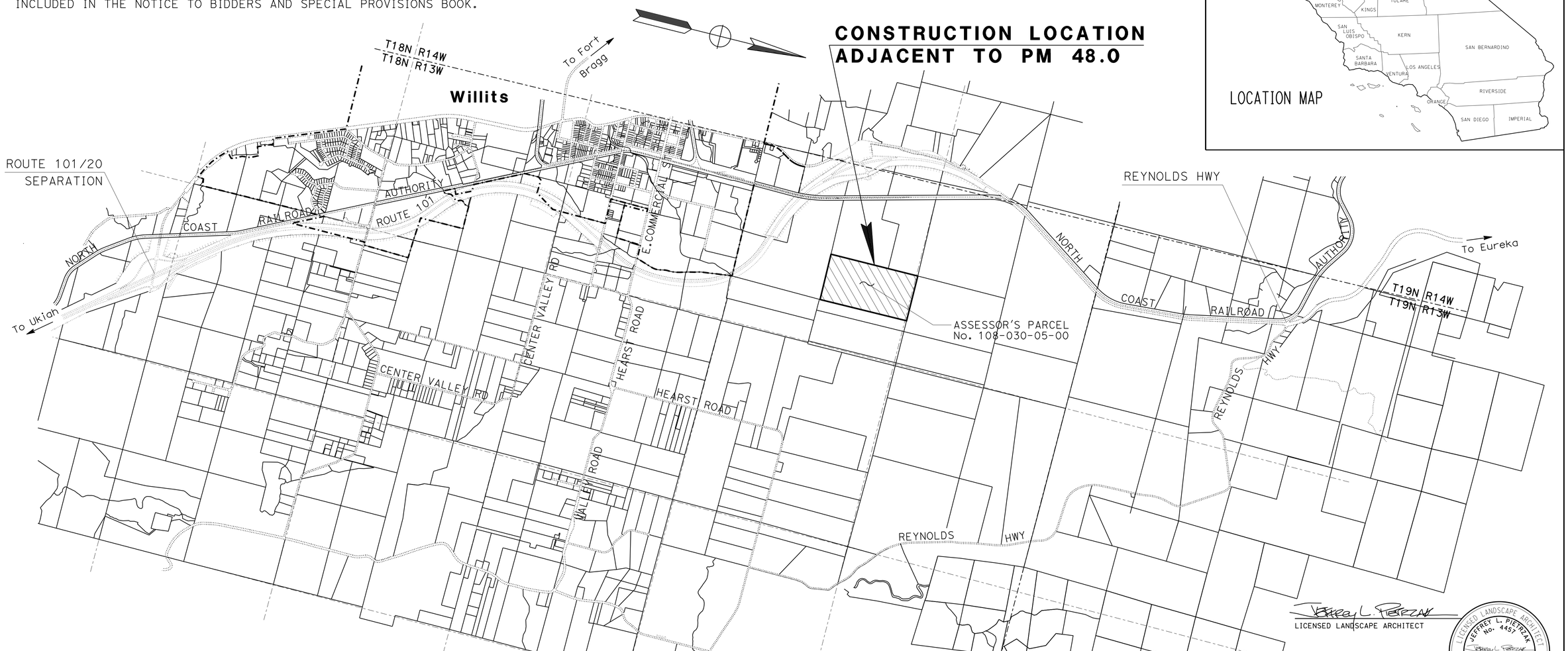
TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-3	UTILITY PLANS
4-8	PLANT LIST AND LEGEND
9	INVASIVE PLANT REMOVAL/PLANTING PLAN KEYMAP
10-11	INVASIVE PLAN REMOVAL PLAN
12-13	PLANTING PLAN
14-17	LANDSCAPE DETAILS AND QUANTITIES
18-20	REVISED STANDARD PLANS

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

LOCATION MAP



NO SCALE

LICENSED LANDSCAPE ARCHITECT

January 20, 2015
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
JEFFREY L. PIETRZAK
No. 4457
Signature
12-31-15
Renewal Date
1-20-15
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.

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

CONTRACT No.	01-262064
PROJECT ID	0115000012

PROJECT MANAGER: MAURICIO SERRANO

LANDSCAPE ARCHITECT: JEFFREY L. PIETRZAK

LAST REVISION 12-06-12

DATE PLOTTED => 18-FEB-2015
TIME PLOTTED => 15:58

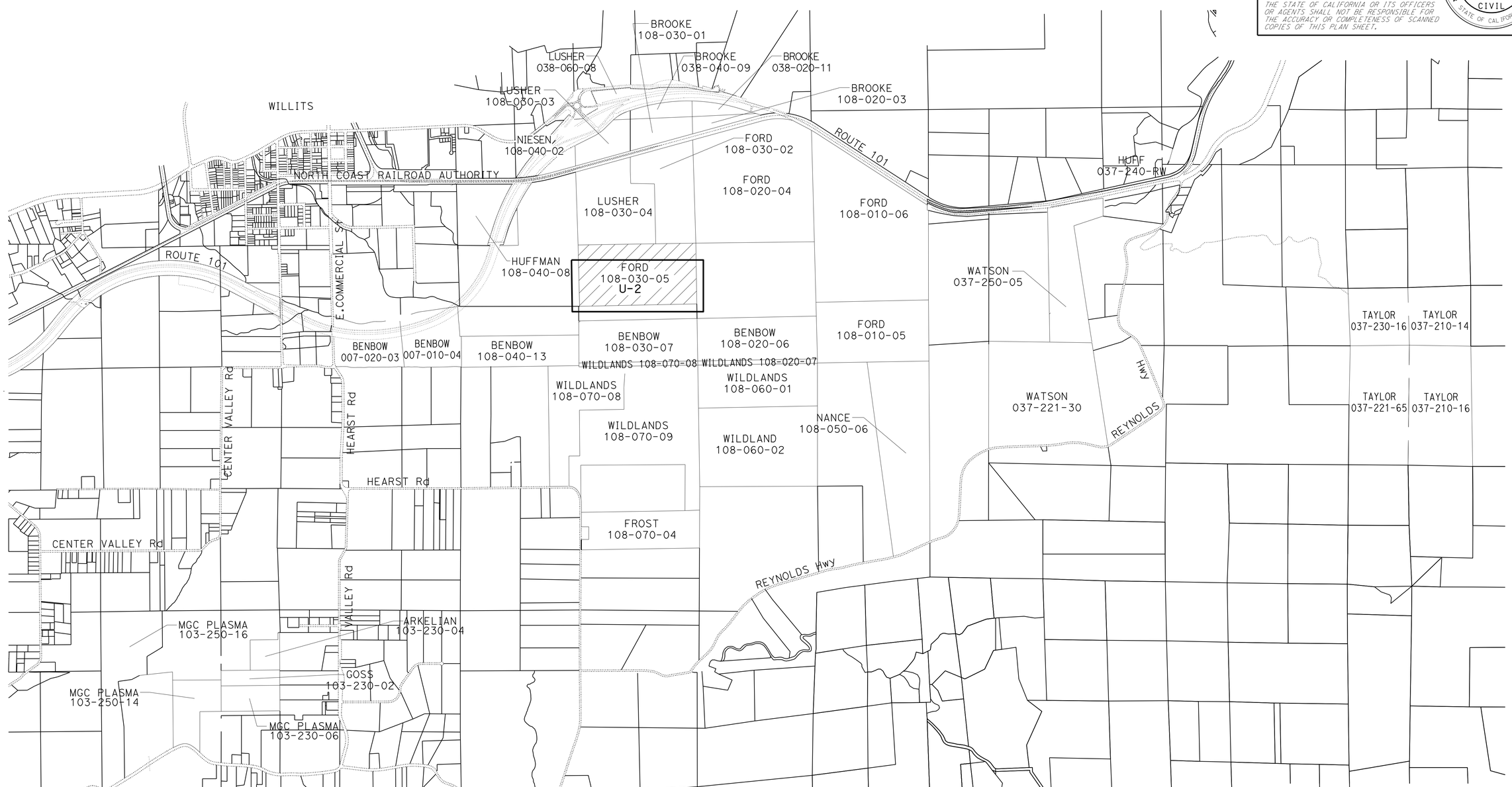
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	48.0	2	20

Jalwat P. Ahmad 1-20-15
REGISTERED CIVIL ENGINEER DATE

1-20-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JALWAT P. AHMAD
No. C 80547
Exp. 03-30-15
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.



APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN KEYMAP

NO SCALE

U-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
NORTH REGION
DIVISION OF ENGINEERING

FUNCTIONAL SUPERVISOR: CHARLES LAUGHLIN

CALCULATED-DESIGNED BY: JALWAT P. AHMAD

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 7-21-14

DATE PLOTTED => 18-FEB-2015
TIME PLOTTED => 15:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	48.0	3	20

Jalwat P. Ahmad 1-20-15
REGISTERED CIVIL ENGINEER DATE

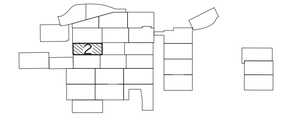
1-20-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JALWAT P. AHMAD
No. C 80547
Exp. 03-30-15
CIVIL
STATE OF CALIFORNIA

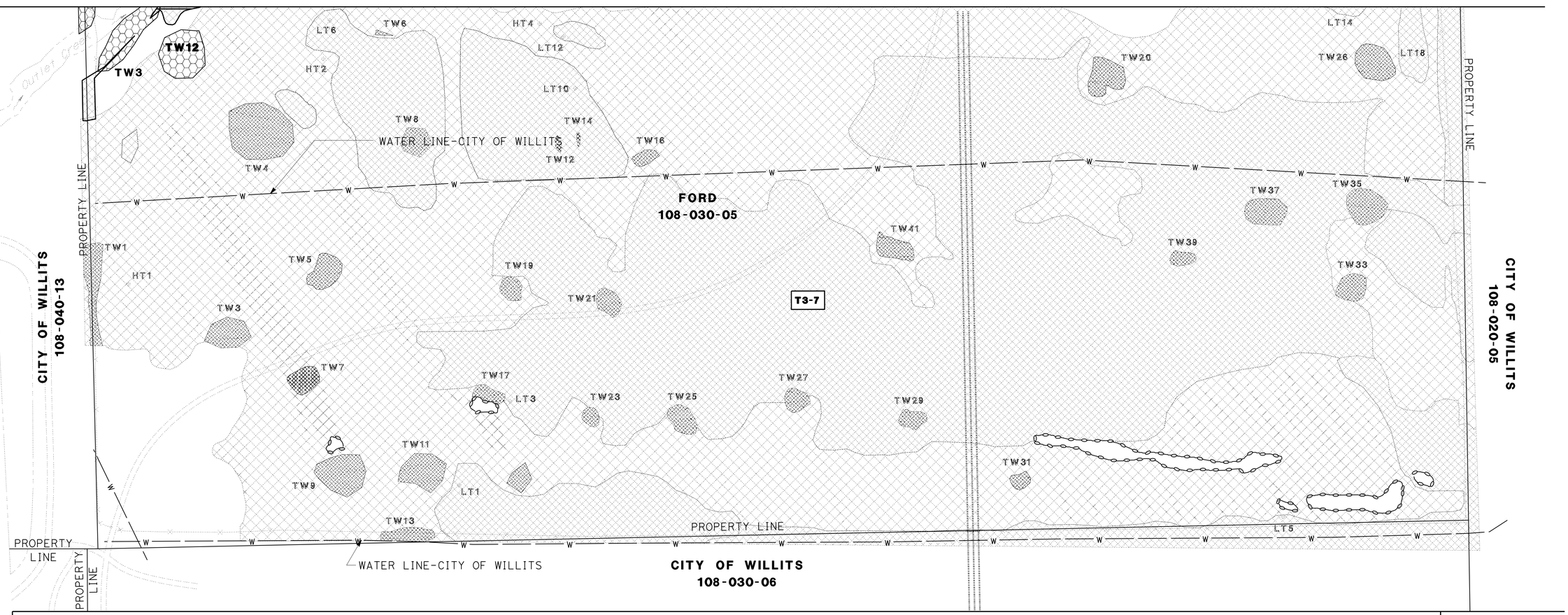
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. LOCATION OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
3. ALL WORK TO BE PERFORMED WITHIN TWO FEET OF CITY OF WILLITS WATER LINE SHALL BE PERFORMED MANUALLY.



KEYMAP



LEGEND:

- ——— w ——— — CITY OF WILLITS - WATER LINE

UTILITY PLAN

SCALE: 1"=100'

U-2

APPROVED FOR UTILITY INFORMATION ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
NORTH REGION
DIVISION OF ENGINEERING

FUNCTIONAL SUPERVISOR: CHARLES LAUGHLIN

CALCULATED-DESIGNED BY: JALWAT P. AHMAD

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 7-21-14

DATE PLOTTED => 18-FEB-2015
TIME PLOTTED => 15:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	48.0	4	20

LICENSED LANDSCAPE ARCHITECT

1-20-15
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT JEFFREY L. PIETRZAK No. 4457 Signature 12-31-15 Renewal Date 1-20-15 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.

NOTES:

1. FOR PLANT MATERIAL, PRIMARY SOURCE FROM:
   1) LITTLE LAKE VALLEY,
   2) OUTLET CREEK BASIN,
   3) EEL RIVER WATERSHED.

ABBREVIATIONS

N/A	NOT APPLICABLE
WE	WETLAND ESTABLISHMENT
WR	WETLAND RESTORATION
IPR	INVASIVE PLANT REMOVAL
WEG2	WETLAND ESTABLISHMENT- GROUP 2
OAK	OAK WOODLAND ESTABLISHMENT
RIPARIAN	RIPARIAN ESTABLISHMENT
P-WR-"X"	WETLAND RESTORATION PLANT PALETTE NUMBER

WETLAND INDICATOR STATUS

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

PLANT LIFEFORM

H	HERBACEOUS
WS	WOODY SHRUB
WT	WOODY TREE

PLANTING SPECIFICATIONS

PLANT GROUP	SIZE	HOLE SIZE (INCH) Dia	HOLE SIZE (INCH) DEPTH	SOIL AMEND ①	MULCH	PLANT PROTECTOR	SPACING OC
M	LINER	5"	5"	--	--	--	PER DETAIL
M-M	LINER	5"	5"	--	0.79 CF	--	PER DETAIL
O-M	ACORN	9"	12"	0.1 CF	0.79 CF	②	PER DETAIL
W	CUTTING	4"	24"	--	--	--	PER DETAIL

NOTES:

1. WHEN PLANTING PLANTS AS A GROUPING AT A SINGLE LOCATION, THE GROUPING SHALL CONSIST OF THE SAME SPECIES.
2. WHERE POSSIBLE, PLANTS OR GROUPINGS SHALL BE PLANTED IN UNITS OF BETWEEN 1-10 PLANTS OF THE SAME PLANT SPECIES.

APPLICABLE WHEN CIRCLED

①- Quantities shown are "per plant"

②- Required

LEGEND:

MITIGATION UNIT CALLOUT

T4-7 — WETLAND REHABILITATION TYPE (3, 4, OR 5); LOCATION NUMBER

INVASIVE PLANT REMOVAL CALLOUT

6 / AA — SHEET NUMBER (PER SHEET TYPE); LOCATION DESIGNATION

EROSION CONTROL/ PLANTING CALLOUT

6 / AA — SHEET NUMBER (PER SHEET TYPE); LOCATION DESIGNATION

ENVIRONMENTALLY SENSITIVE AREA TYPE CALLOUT- (BY PROPERTY)

ESA2 — LOCATION NUMBER

ESA1 SW — LOCATION NUMBER; TYPE- SWALE/ WETLAND

ESA1 TSD — LOCATION NUMBER; TYPE- TARGET SPECIES DOMINATED

INVASIVE PLANT REMOVAL- (BY PROPERTY)

SAMPLE POINT

TW10 — TARGET WEED CALLOUT NUMBER

LT1 — LIGHT TREATMENT CALLOUT NUMBER

HT2 — HEAVY TREATMENT CALLOUT NUMBER

INVASIVE PLANT REMOVAL (TARGET WEED)

INVASIVE PLANT REMOVAL (LIGHT TREATMENT)

INVASIVE PLANT REMOVAL (HEAVY TREATMENT)

WETLAND MANAGEMENT ACTION

WETLAND REHABILITATION- TYPE 3 (WRT3)

FEATURES EXISTING OR NOT INCLUDED IN THIS CONTRACT

EXISTING ALLEYWAY

EXISTING WATERLINES/ CATTLE TROUGHS

TW10B — TARGET WEED CALLOUT NUMBER

INVASIVE PLANT REMOVAL (TARGET WEED)

INVASIVE PLANT REMOVAL (LIGHT TREATMENT)

INVASIVE PLANT REMOVAL (HEAVY TREATMENT)

RIPARIAN ESTABLISHMENT (RIP)

WETLAND REHABILITATION- TYPE 4 (WRT4)

WETLAND ESTABLISHMENT- GROUP 2 (WEG2)

TFESA — EXISTING TEMPORARY FENCE (TYPE ESA)

EXISTING TEMPORARY MARKER (TYPE ESA)

PLANT LIST
PL-1

CALCULATED- DESIGNED BY: J. PIETRZAK
CHECKED BY: D. BREWER
REVISED BY
DATE REVISED
SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

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

LAST REVISION 00-00-00
DATE PLOTTED => 18-FEB-2015
TIME PLOTTED => 15:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	48.0	5	20

LICENSED LANDSCAPE ARCHITECT

1-20-15
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT JEFFREY L. PIETRZAK No. 4457 Signature 12-31-15 Renewal Date 1-20-15 Date STATE OF CALIFORNIA

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PROPERTY

FORD 108-030-05 (T3-7)

PLANT LIST AND PLANTING SPECIFICATIONS
WETLAND RESTORATION (TYPE 3)

PLANT GROUP	BOTANICAL NAME	COMMON NAME	WETLAND INDICATOR STATUS	SIZE	SPACING	QTY PER ACRE BASED ON SIZE	PLANTS PER LOCATION	PALETTE: PERCENT OF MIX ①	PALETTE: P-WRT3-3
HERBACEOUS					3′	4840	1	QUANTITY PER ACRE	
M	AGROSTIS EXARATA	SPIKE BENTGRASS	FAC	LINER				--	--
	AMBROSIA PSILOSTACHYA	CUMAN RAGWEED	FAC	LINER				5%	--
	APOCYNUM CANNABINUM	INDIAN HEMP	FAC	LINER				OPT	--
	ARTEMISIA DOUGLASIANA	MUGWORT	FACW	LINER				5%	242
	ASCLEPIAS FASCICULARIS	NARROWLEAF MILKWEED	FAC	LINER				5%	--
	BECKMANNIA SYZIGACHE	AMERICAN SLOUGHGRASS	OBL	LINER				--	--
	CAMASSIA QUAMASH	SMALL CAMAS	FACW	LINER				--	--
	CAREX ATHROSTACHYA	SLENDERBEAK SEDGE	FACW	LINER				OPT	--
	CAREX DENSA	DENSE SEDGE	OBL (FACW)	LINER				--	97
	CAREX NEBRASCENSIS	NEBRASKA SEDGE	OBL	LINER				--	--
	CAREX PRAEGRACILIS	FIELD SEDGE	FACW	LINER				8%	726
	CAREX TUMULICOLA	FOOTHILL SEDGE	FACW	LINER				2%	97
	CAREX UTRICULATA	COMMON BEAKED SEDGE	OBL	LINER				--	--
	DANTHONIA CALIFORNICA	CALIFORNIA OATGRASS	FACW	LINER				2%	145
	DESCHAMPSIA CESPITOSA	TUFTED HAIRGRASS	FACW	LINER				2%	145
	DESCHAMPSIA DANTHONIODES	ANNUAL HAIRGRASS	FACW	LINER				2%	--
	DESCHAMPSIA ELONGATA	SLENDER HAIRGRASS	FACW	LINER				2%	194
	ELEOCHARIS MACROSTACHYA	PALE SPIKERUSH	OBL	LINER				--	242
	ELYMUS TRITICOIDES	BEARDLESS WILDRYE	FAC+	LINER				18%	581
	EQUISETUM ARVENSE	FIELD HORSETAIL	FAC	LINER				4%	--
	EQUISETUM TELMATEIA	GIANT HORSETAIL	OBL	LINER				--	--
	EUTHAMIA OCCIDENTALIS	WESTERN GOLDENROD	OBL	LINER				--	--
	HORDEUM BRACHYANTHERUM SSP. BRACHYANTHERUM	MEADOW BARLEY	FACW	LINER				10%	629
	HORDEUM BRACHYANTHERUM SSP. CALIFORNICUM	CALIFORNIA BARLEY	FACW	LINER				10%	--
	JUNCUS BALTICUS	BALTIC RUSH	OBL	LINER				--	484
	JUNCUS BOLANDERI	BOLANDER'S RUSH	OBL	LINER				--	--
	JUNCUS EFFUSUS	SOFT RUSH	OBL	LINER				--	387
	JUNCUS OCCIDENTALIS	WESTERN RUSH	FACW	LINER				OPT	--
	JUNCUS PATENS	COMMON RUSH	FAC	LINER				18%	484
	JUNCUS PHAEOCEPHALUS	BROWN HEADED RUSH	FACW	LINER				2%	194
	JUNCUS TENUIS	SLENDER RUSH	FACW	LINER				OPT	--
	JUNCUS XIPHIODES	IRISLEAF RUSH	OBL	LINER				--	194
	PERSICARIA PUNCTATA	WATER SMARTWEED	OBL	LINER				--	--
	SCHOENOPLECTUS* ACUTUS	TULE	OBL	LINER				--	--
	SCIRPUS MICROCARPUS	SMALL FRUIT BULLRUSH	OBL	LINER				--	--
	SYMPHOTRICHUM CHILENSE	PACIFIC ASTER	FAC	LINER				5%	--
	TYPHA LATIFOLIA	CATTAIL	OBL (FACW)	LINER				--	--
							SUBTOTAL		4840

① SPECIES LISTED AS "OPT" MAY BE USED AS OPTIONAL SPECIES FOR A MAXIMUM COMBINED TOTAL OF 10% OF A GIVEN PLANT PALETTE.

REVISED BY | DATE REVISED

J. PIETRZAK | D. BREWER

CALCULATED-DESIGNED BY | CHECKED BY

SENIOR LANDSCAPE ARCHITECT

T. CHRIS JOHNSON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans®

03-LANDSCAPE ARCHITECTURE

PLANT LIST
PL-2

LAST REVISION 00-00-00 | DATE PLOTTED => 18-FEB-2015 | TIME PLOTTED => 15:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	48.0	6	20

LICENSED LANDSCAPE ARCHITECT

1-20-15
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT JEFFREY L. PIETRZAK No. 4457 Signature 12-31-15 Renewal Date 1-20-15 Date STATE OF CALIFORNIA

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PLANT LIST AND PLANTING SPECIFICATIONS WETLAND RESTORATION (TYPE 3)

PROPERTY: FORD 108-030-05 (T3-7)

PLANT GROUP	BOTANICAL NAME	COMMON NAME	WETLAND INDICATOR STATUS	SIZE	SPACING	QTY PER ACRE BASED ON SIZE	PLANTS PER LOCATION	PALETTE: PERCENT OF MIX ①	PALETTE: P-WRT3-3
WOODY TREES- LINER					20′	109	1	QUANTITY PER ACRE	
M-M	ACER CIRCINATUM	VINE MAPLE	FAC	LINER				OPT	--
	ACER MACROPHYLLUM	BIGLEAF MAPLE	FACW	LINER				5%	--
	ACER NEGUNDO	BOX ELDER	FACW	LINER				OPT	--
	ALNUS RHOMBIFOLIA	WHITE ALDER	FACW	LINER				5%	--
	FRAXINUS LATIFOLIA	OREGON ASH	FACW	LINER				25%	22
	POPULUS FREMONTII	FREMONT COTTONWOOD	FAC	LINER				15%	11
	QUERCUS GARRYANA	GARRY OAK	FACU	LINER				--	--
	UMBELLULARIA CALIFORNICA	CALIFORNIA BAY	FAC	LINER				5%	--
								SUBTOTAL	33
WOODY TREES- ACORN					20′	109	1		
O-M	QUERCUS LOBATA	VALLEY OAK	FAC	ACORN					65
								SUBTOTAL	65
WOODY TREES- CUTTINGS					20′	109	1		
W	SALIX EXIGUA	RED WILLOW	OBL	CUTTING					--
	SALIX LAEVIGATA	SANDBAR WILLOW	NL (OBL)	CUTTING					--
	SALIX LASIANDRA VAR. LASIANDRA	PACIFIC WILLOW	OBL	CUTTING					--
	SALIX LASIOLEPIS	ARROYO WILLOW	FACW	CUTTING					11
								SUBTOTAL	11

① SPECIES LISTED AS "OPT" MAY BE USED AS OPTIONAL SPECIES FOR A MAXIMUM COMBINED TOTAL OF 10% OF A GIVEN PLANT PALETTE.

SEED MIX: S-WET

BOTANICAL NAME	COMMON NAME	PERCENT GERMINATION	WETLAND INDICATOR STATUS	PERCENT OF MIX ①	SEED MIX POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT) (N) S-WET
AGROSTIS EXARATA	SPIKE BENTGRASS	45%	FAC	13.0%	0.1
AMBROSIA PSILOSTACHYA	CUMAN RAGWEED	45%	FAC	3.0%	5.2
ARTEMISIA DOUGLASIANA	MUGWORT	45%	FACW	10.0%	1.3
DESCHAMPSIA CESPITOSA	TUFTED HAIRGRASS	45%	FACW	10.0%	0.2
DESCHAMPSIA DANTHONIODES	ANNUAL HAIRGRASS	45%	FACW	OPT	OPT
DESCHAMPSIA ELONGATA	SLENDER HAIRGRASS	45%	FACW	10.0%	0.2
ELYMUS TRITICOIDES	CREEPING WILDRYE	45%	FACW	25.0%	6.3
HORDEUM BRACHYANTHERUM SSP. BRACHYANTHERUM	MEADOW BARLEY	45%	FACW	25.0%	10.1
HORDEUM BRACHYANTHERUM SSP. CALIFORNICUM	CALIFORNIA BARLEY	45%	FACW	4.0%	1.4
				TOTAL	24.8

① SPECIES LISTED AS "OPT" MAY BE USED AS OPTIONAL SPECIES FOR A MAXIMUM COMBINED TOTAL OF 10% OF A GIVEN PLANT PALETTE.

(N) NON PAY ITEM; FOR INFORMATION ONLY

EROSION CONTROL-TYPE B

TARGET WEED. WET SEED MIX.

SEQUENCE	ITEM	MATERIAL: DESCRIPTION	MATERIAL: TYPE	APPLICATION RATE
STEP 1	DRY SEED	SEED	S-WET	24.8 LB/ACRE
STEP 2	STRAW	STRAW	NATIVE GRASS	2 TONS/ ACRE
STEP 3	INCORPORATE MATERIALS	STRAW		

EROSION CONTROL-TYPE D

HEAVY TREATMENT AREAS. WET SEED MIX.

SEQUENCE	ITEM	MATERIAL: DESCRIPTION	MATERIAL: TYPE	APPLICATION RATE
STEP 1	DRILL SEED	SEED	S-WET	24.8 LB/ACRE
		RING ROLLING		
STEP 2	STRAW	STRAW	NATIVE GRASS	2 TONS/ ACRE
STEP 3	INCORPORATE MATERIALS	STRAW		

PLANT LIST
PL-3

REVISED BY | DATE REVISED
J. PIETRZAK | D. BREWER
CALCULATED- DESIGNED BY | CHECKED BY
SENIOR LANDSCAPE ARCHITECT | T. CHRIS JOHNSON

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

LAST REVISION 00-00-00 | DATE PLOTTED => 18-FEB-2015 | TIME PLOTTED => 15:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	48.0	7	20

LICENSED LANDSCAPE ARCHITECT

1-20-15
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT JEFFREY L. PIETRZAK No. 4457 Signature 12-31-15 Renewal Date 1-20-15 Date STATE OF CALIFORNIA

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WETLAND MANAGEMENT ACTION/ PLANTING AND EROSION CONTROL (BY PROPERTY)

PROPERTY	WETLAND MANAGEMENT ACTION	EROSION CONTROL TYPE	SEED MIX	PLANT PALETTE
FORD 108-030-05	WR- TYPE 3	--	--	P-WRT3-3
	IPR (TARGET WEED REMOVAL)	EC-TYPE B	S-WET	--
	IPR (HEAVY TREATMENT)	EC-TYPE D	S-WET	--
WILLITS 108-040-13	WR- TYPE 3	--	--	P-WRT3-3
	IPR (TARGET WEED REMOVAL)	--	--	--
	IPR (HEAVY TREATMENT)	--	--	--

WETLAND MANAGEMENT ACTION ACRES (BY LOCATION)

LOCATION	WETLAND MITIGATION ACTION	PROPERTY	(N) MITIGATION UNIT	(N) PLANT PALETTE	(N) SQFT MEASURED	(N) ACRES PLANTING
12-T	WETLAND REHABILITATION- TYPE 3	FORD 108-030-05	T3-7	P-WRT3-3	43093	0.99
12-U	WETLAND REHABILITATION- TYPE 3	FORD 108-030-05	T3-7	P-WRT3-3	65198	1.50
12-Y	WETLAND REHABILITATION- TYPE 3	FORD 108-030-05	T3-7	P-WRT3-3	56528	1.30
15-A	WETLAND REHABILITATION- TYPE 3	FORD 108-030-05	T3-7	P-WRT3-3	2400449	55.11
15-D	WETLAND REHABILITATION- TYPE 3	WILLITS 108-040-13	T3-7	P-WRT3-3	9340	0.21
					TOTAL	59.10

(N) NON PAY ITEM; FOR INFORMATION ONLY

PROJECT QUANTITIES- BY EC TYPE B

LOCATION	INVASIVE PLANT REMOVAL ACTION	PROPERTY	(N) EROSION CONTROL TYPE	(N) SEED MIX	(N) SQFT EROSION CONTROL	(N) ACRES EROSION CONTROL- TYPE B
12-MM	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	1347	0.03
12-NN	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	1028	0.02
15-F	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	4440	0.10
15-G	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	3621	0.08
15-H	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	3050	0.07
15-I	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	2259	0.05
15-J	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	5515	0.13
15-K	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	4499	0.10
15-L	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	2207	0.05
15-M	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	10687	0.25
15-O	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	1428	0.03
15-P	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	1462	0.03
15-Q	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	1501	0.03
15-S	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	161	0.00
15-T	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	2361	0.05
15-W	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	267	0.01
15-X	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	148	0.00
15-AA	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	2179	0.05
15-BB	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	1033	0.02
15-CC	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	1842	0.04
15-DD	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	921	0.02
15-FF	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	3395	0.08
15-GG	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	1083	0.02
15-HH	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	3735	0.09
15-JJ	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	917	0.02
15-KK	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	2483	0.06
15-LL	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	1442	0.03
15-MM	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	1613	0.04
15-OO	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	2358	0.05
15-PP	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	4003	0.09
15-QQ	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE B	S-WET	4022	0.09
					TOTAL	1.77

(N) NON PAY ITEM; FOR INFORMATION ONLY

PROJECT QUANTITIES- BY EC TYPE D

LOCATION	INVASIVE PLANT REMOVAL ACTION	PROPERTY	(N) EROSION CONTROL TYPE	(N) SEED MIX	(N) SQFT EROSION CONTROL	(N) ACRES EROSION CONTROL- TYPE D
12-BB	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE D	S-WET	1117	0.03
12-CC	TARGET WEED REMOVAL	FORD 108-030-05	EC-TYPE D	S-WET	122	0.00
12-OO	HEAVY TREATMENT	FORD 108-030-05	EC-TYPE D	S-WET	154669	3.55
15-E	HEAVY TREATMENT	FORD 108-030-05	EC-TYPE D	S-WET	1128	0.03
15-Z	HEAVY TREATMENT	FORD 108-030-05	EC-TYPE D	S-WET	1187565	27.26
15-II	HEAVY TREATMENT	FORD 108-030-05	EC-TYPE D	S-WET	21072	0.48
15-UU	HEAVY TREATMENT	FORD 108-030-05	EC-TYPE D	S-WET	47655	1.09
					TOTAL	32.45

(N) NON PAY ITEM; FOR INFORMATION ONLY

ACREAGE BY SEED PALETTE

	(N) SEED PALETTE		(N) ACRES
	IPR (TARGET WEED) AREAS	IPR (HEAVY TREATMENT) AREAS	
S-WET	1.80	32.42	34.21
		TOTAL	34.21

(N) NON PAY ITEM; FOR INFORMATION ONLY

ACREAGE BY PLANT PALETTE

(N) PLANT PALETTE	(N) ACRES
P-WE-3	59.10
TOTAL	59.10

(N) NON PAY ITEM; FOR INFORMATION ONLY

PLANT LIST AND LEGEND
PL-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 03-LANDSCAPE ARCHITECTURE
SENIOR LANDSCAPE ARCHITECT T. CHRIS JOHNSON
CALCULATED-DESIGNED BY J. PIETRZAK
CHECKED BY D. BREWER
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 18-FEB-2015
TIME PLOTTED => 15:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	48.0	8	20

LICENSED LANDSCAPE ARCHITECT

1-20-15
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT JEFFREY L. PIETRZAK No. 4457 Signature 12-31-15 Renewal Date 1-20-15 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.

INVASIVE PLANT REMOVAL QUANTITIES (BY LOCATION)

SHEET	LOCATION	INVASIVE PLANT REMOVAL ACTION	PROPERTY	TARGETED WEED SPECIES CALLOUT	(N) EROSION CONTROL TYPE	(N) SEED MIX	HEAVY TREATMENT MULTI	LIGHT TREATMENT MULTI	MULTI	RUB ARM	DIP FUL
							SQFT				
PR-1	12-BB	TARGET WEED REMOVAL	FORD 108-030-05	TW10	EC-TYPE D	S-WET	1117	--	--	--	--
PR-1	12-CC	TARGET WEED REMOVAL	FORD 108-030-05	TW18	EC-TYPE D	S-WET	122	--	--	--	--
PR-1	12-MM	TARGET WEED REMOVAL	FORD 108-030-05	TW24	EC-TYPE B	S-WET	--	--	--	1347	--
PR-1	12-NN	TARGET WEED REMOVAL	FORD 108-030-05	TW22	EC-TYPE B	S-WET	--	--	1028	--	--
PR-1	12-OO	HEAVY TREATMENT	FORD 108-030-05	--	EC-TYPE D	S-WET	154669	--	--	--	--
PR-1	12-PP	LIGHT TREATMENT	FORD 108-030-05	--	--	--	--	4288	--	--	--
PR-1	12-QQ	LIGHT TREATMENT	FORD 108-030-05	--	--	--	--	697	--	--	--
PR-1	12-RR	LIGHT TREATMENT	WILLITS 108-020-05	--	--	--	--	8019	--	--	--
PR-2	15-D	LIGHT TREATMENT	FORD 108-030-05	--	--	--	--	1318	--	--	--
PR-2	15-E	HEAVY TREATMENT	FORD 108-030-05	--	EC-TYPE D	S-WET	1128	--	--	--	--
PR-2	15-F	TARGET WEED REMOVAL	FORD 108-030-05	TW1	EC-TYPE B	S-WET	--	--	--	4440	--
PR-2	15-G	TARGET WEED REMOVAL	FORD 108-030-05	TW3	EC-TYPE B	S-WET	--	--	3621	--	--
PR-2	15-H	TARGET WEED REMOVAL	FORD 108-030-05	TW5	EC-TYPE B	S-WET	--	--	3050	--	--
PR-2	15-I	TARGET WEED REMOVAL	FORD 108-030-05	TW7	EC-TYPE B	S-WET	--	--	2259	--	--
PR-2	15-J	TARGET WEED REMOVAL	FORD 108-030-05	TW9	EC-TYPE B	S-WET	--	--	5515	--	--
PR-2	15-K	TARGET WEED REMOVAL	FORD 108-030-05	TW11	EC-TYPE B	S-WET	--	--	4499	--	--
PR-2	15-L	TARGET WEED REMOVAL	FORD 108-030-05	TW13	EC-TYPE B	S-WET	--	--	--	2207	--
PR-2	15-M	TARGET WEED REMOVAL	FORD 108-030-05	TW4	EC-TYPE B	S-WET	--	--	--	10687	--
PR-2	15-N	LIGHT TREATMENT	FORD 108-030-05	--	--	--	--	3310	--	--	--
PR-2	15-O	TARGET WEED REMOVAL	FORD 108-030-05	TW17	EC-TYPE B	S-WET	--	--	1428	--	--
PR-2	15-P	TARGET WEED REMOVAL	FORD 108-030-05	TW15	EC-TYPE B	S-WET	--	--	1462	--	--
PR-2	15-Q	TARGET WEED REMOVAL	FORD 108-030-05	TW19	EC-TYPE B	S-WET	--	--	1501	--	--
PR-2	15-R	LIGHT TREATMENT	FORD 108-030-05	--	--	--	--	58166	--	--	--
PR-2	15-S	TARGET WEED REMOVAL	FORD 108-030-05	TW6	EC-TYPE B	S-WET	--	--	161	--	--
PR-2	15-T	TARGET WEED REMOVAL	FORD 108-030-05	TW8	EC-TYPE B	S-WET	--	--	2361	--	--
PR-2	15-U	LIGHT TREATMENT	FORD 108-030-05	--	--	--	--	65137	--	--	--
PR-2	15-V	LIGHT TREATMENT	FORD 108-030-05	--	--	--	--	3194	--	--	--
PR-2	15-W	TARGET WEED REMOVAL	FORD 108-030-05	TW12	EC-TYPE B	S-WET	--	--	267	--	--
PR-2	15-X	TARGET WEED REMOVAL	FORD 108-030-05	TW14	EC-TYPE B	S-WET	--	--	--	--	148
PR-2	15-Y	LIGHT TREATMENT	FORD 108-030-05	--	--	--	--	829229	--	--	--
PR-2	15-Z	HEAVY TREATMENT	FORD 108-030-05	--	EC-TYPE D	S-WET	1187565	--	--	--	--
PR-2	15-AA	TARGET WEED REMOVAL	FORD 108-030-05	TW25	EC-TYPE B	S-WET	--	--	2179	--	--
PR-2	15-BB	TARGET WEED REMOVAL	FORD 108-030-05	TW16	EC-TYPE B	S-WET	--	--	--	--	1033
PR-2	15-CC	TARGET WEED REMOVAL	FORD 108-030-05	TW21	EC-TYPE B	S-WET	--	--	1842	--	--
PR-2	15-DD	TARGET WEED REMOVAL	FORD 108-030-05	TW23	EC-TYPE B	S-WET	--	--	921	--	--
PR-2	15-EE	LIGHT TREATMENT	FORD 108-030-05	--	--	--	--	58936	--	--	--
PR-2	15-FF	TARGET WEED REMOVAL	FORD 108-030-05	TW37	EC-TYPE B	S-WET	--	--	3395	--	--
PR-2	15-GG	TARGET WEED REMOVAL	FORD 108-030-05	TW39	EC-TYPE B	S-WET	--	--	1083	--	--
PR-2	15-HH	TARGET WEED REMOVAL	FORD 108-030-05	TW20	EC-TYPE B	S-WET	--	--	3735	--	--
PR-2	15-II	HEAVY TREATMENT	FORD 108-030-05	--	EC-TYPE D	S-WET	21072	--	--	--	--
PR-2	15-JJ	TARGET WEED REMOVAL	FORD 108-030-05	TW31	EC-TYPE B	S-WET	--	--	917	--	--
PR-2	15-KK	TARGET WEED REMOVAL	FORD 108-030-05	TW41	EC-TYPE B	S-WET	--	--	2483	--	--
PR-2	15-LL	TARGET WEED REMOVAL	FORD 108-030-05	TW29	EC-TYPE B	S-WET	--	--	1442	--	--
PR-2	15-MM	TARGET WEED REMOVAL	FORD 108-030-05	TW27	EC-TYPE B	S-WET	--	--	1613	--	--
PR-2	15-NN	LIGHT TREATMENT	FORD 108-030-05	--	--	--	--	91187	--	--	--
PR-2	15-OO	TARGET WEED REMOVAL	FORD 108-030-05	TW33	EC-TYPE B	S-WET	--	--	2358	--	--
PR-2	15-PP	TARGET WEED REMOVAL	FORD 108-030-05	TW35	EC-TYPE B	S-WET	--	--	4003	--	--
PR-2	15-QQ	TARGET WEED REMOVAL	FORD 108-030-05	TW26	EC-TYPE B	S-WET	--	--	--	4022	--
PR-2	15-RR	LIGHT TREATMENT	FORD 108-030-05	--	--	--	--	18290	--	--	--
PR-2	15-SS	LIGHT TREATMENT	FORD 108-030-05	--	--	--	--	6566	--	--	--
PR-2	15-TT	LIGHT TREATMENT	FORD 108-030-05	--	--	--	--	900	--	--	--
PR-2	15-UU	HEAVY TREATMENT	FORD 108-030-05	--	EC-TYPE D	S-WET	47655	--	--	--	--
PR-2	15-VV	LIGHT TREATMENT	FORD 108-030-05	--	--	--	--	26175	--	--	--
						SUBTOTAL	1413328	1175412	53123	22703	1181
						TOTAL	1413328	1175412	77007		
						ACRES TOTAL	32.45	26.98	1.77		

(N) NON PAY ITEM; FOR INFORMATION ONLY

PLANT LIST AND LEGEND
PL-5

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

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY: J. PIETRZAK
CHECKED BY: D. BREWER

REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 18-FEB-2015
TIME PLOTTED => 15:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	48.0	9	20

LICENSED LANDSCAPE ARCHITECT

1-20-15
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
JEFFREY L. PIETRZAK
No. 4457
Signature
12-31-15
Renewal Date
1-20-15
Date
STATE OF CALIFORNIA

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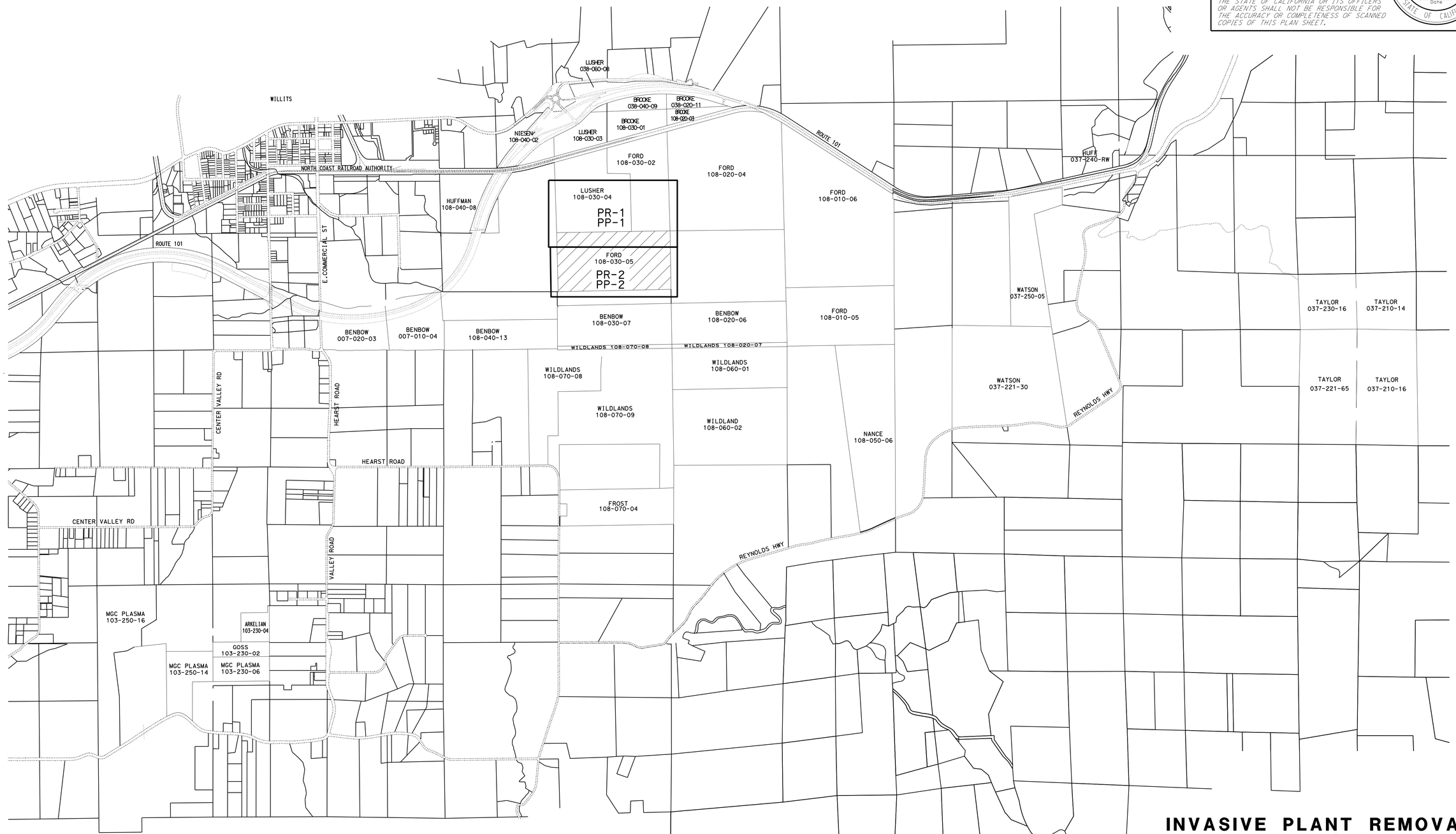

NOTE: EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

INVASIVE PLANT REMOVAL/ PLANTING PLAN KEYMAP

NO SCALE

PK-1

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

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY: J. PIETRZAK
CHECKED BY: D. BREWER

REVISED BY
DATE REVISED

LAST REVISION 00-00-00
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	48.0	10	20

LICENSED LANDSCAPE ARCHITECT

1-20-15
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT JEFFREY L. PIETRZAK No. 4457 Signature 12-31-15 Renewal Date 1-20-15 Date STATE OF CALIFORNIA

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KEYMAP

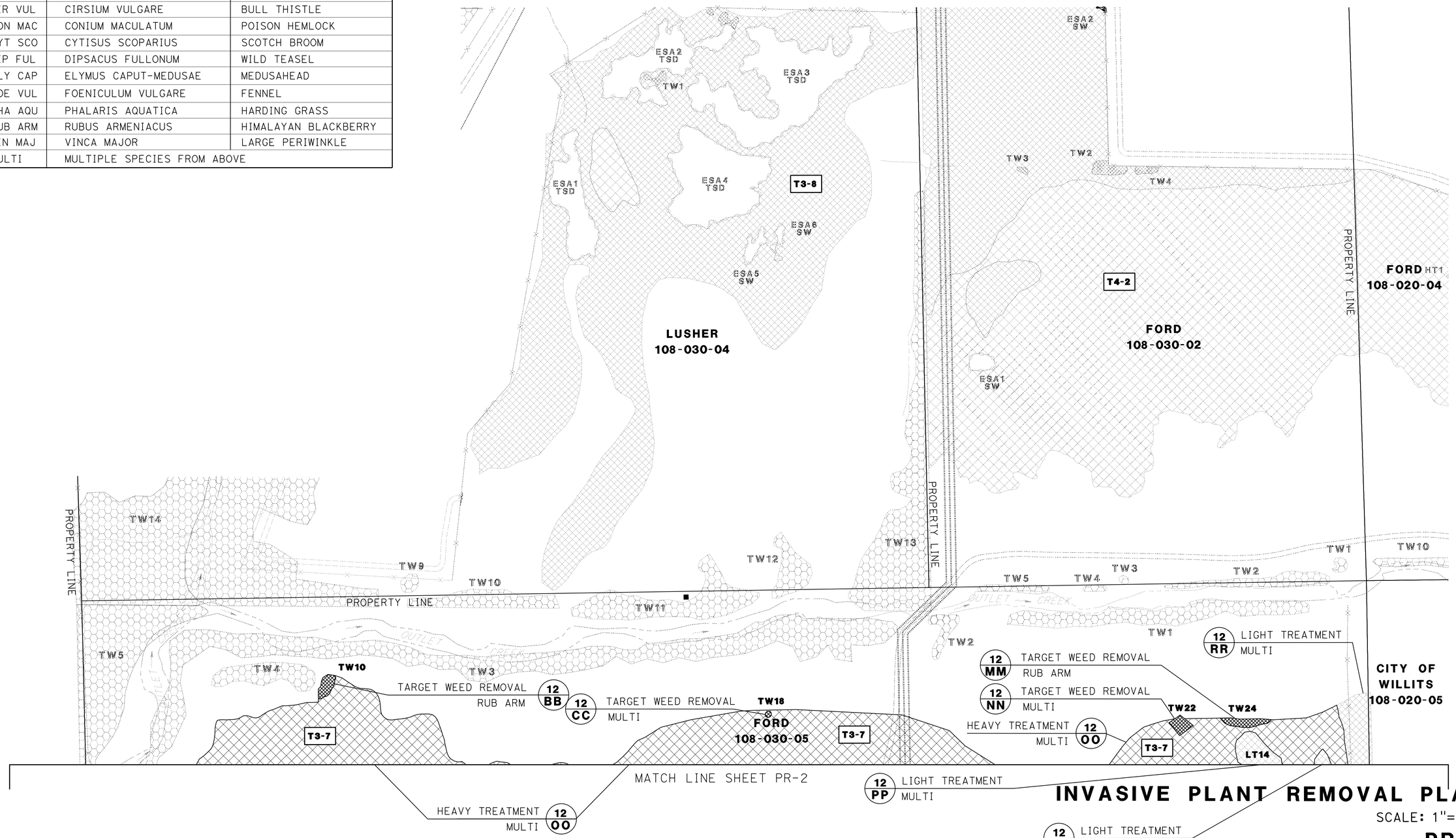
WILLITS
T18N R13W MDB&M
SEC 6 & 7

NOTES:

1. TARGET WEED AND HEAVY TREATMENT WEED REMOVAL AREAS INCLUDE EROSION CONTROL.
2. SEE INVASIVE PLANT REMOVAL QUANTITY SHEETS FOR EROSION CONTROL REQUIREMENTS.

ABBREVIATIONS

CODE	BOTANICAL NAME	COMMON NAME
CIR VUL	CIRSIUM VULGARE	BULL THISTLE
CON MAC	CONIUM MACULATUM	POISON HEMLOCK
CYT SCO	CYTISUS SCOPARIUS	SCOTCH BROOM
DIP FUL	DIPSACUS FULLONUM	WILD TEASEL
ELY CAP	ELYMUS CAPUT-MEDUSAE	MEDUSAHEAD
FOE VUL	FOENICULUM VULGARE	FENNEL
PHA AQU	PHALARIS AQUATICA	HARDING GRASS
RUB ARM	RUBUS ARMENIACUS	HIMALAYAN BLACKBERRY
VIN MAJ	VINCA MAJOR	LARGE PERIWINKLE
MULTI	MULTIPLE SPECIES FROM ABOVE	



INVASIVE PLANT REMOVAL PLAN

SCALE: 1"=100'

PR-1

NOTE: EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: J. PIETRZAK
CHECKED BY: D. BREWER
SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

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

LAST REVISION 00-00-00
DATE PLOTTED => 18-FEB-2015
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	48.0	11	20

LICENSED LANDSCAPE ARCHITECT

1-20-15
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT JEFFREY L. PIETRZAK No. 4457 Signature 12-31-15 Renewal Date 1-20-15 Date STATE OF CALIFORNIA

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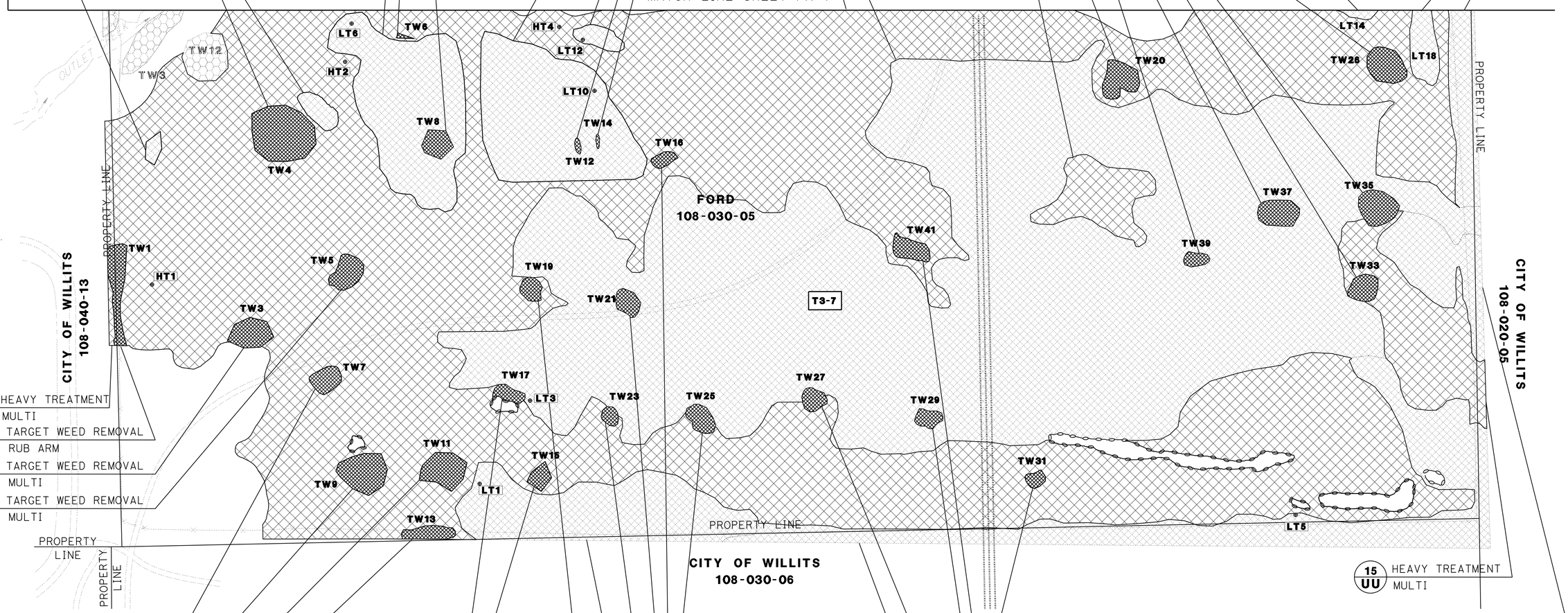
WILLITS
T18N R13W MDB&M
SEC 6 & 7

KEYMAP

LIGHT TREATMENT MULTI 15 D
LIGHT TREATMENT MULTI 15 R
TARGET WEED REMOVAL MULTI 15 S
TARGET WEED REMOVAL MULTI 15 T
LIGHT TREATMENT MULTI 15 U
LIGHT TREATMENT MULTI 15 V
TARGET WEED REMOVAL MULTI 15 W
TARGET WEED REMOVAL DIP VUL 15 X
15 Y LIGHT TREATMENT MULTI
15 Z HEAVY TREATMENT MULTI
TARGET WEED REMOVAL RUB ARM 15 M
LIGHT TREATMENT MULTI 15 N
15 FF TARGET WEED REMOVAL MULTI
15 GG TARGET WEED REMOVAL MULTI
15 HH TARGET WEED REMOVAL MULTI
15 II HEAVY TREATMENT MULTI
TARGET WEED REMOVAL MULTI 15 OO
TARGET WEED REMOVAL MULTI 15 PP
TARGET WEED REMOVAL RUB ARM 15 QQ
15 RR LIGHT TREATMENT MULTI
15 SS LIGHT TREATMENT MULTI
LIGHT TREATMENT MULTI 15 TT

MATCH LINE SHEET PR-1



15 E HEAVY TREATMENT MULTI
15 F TARGET WEED REMOVAL RUB ARM
15 G TARGET WEED REMOVAL MULTI
15 H TARGET WEED REMOVAL MULTI
15 I TARGET WEED REMOVAL MULTI
15 J TARGET WEED REMOVAL MULTI
15 K TARGET WEED REMOVAL MULTI
15 L TARGET WEED REMOVAL RUB ARM
15 O TARGET WEED REMOVAL MULTI
15 P TARGET WEED REMOVAL MULTI
15 Q TARGET WEED REMOVAL MULTI
TARGET WEED REMOVAL MULTI 15 AA
TARGET WEED REMOVAL DIP VUL 15 BB
TARGET WEED REMOVAL MULTI 15 CC
TARGET WEED REMOVAL MULTI 15 DD
LIGHT TREATMENT MULTI 15 EE
TARGET WEED REMOVAL MULTI 15 JJ
TARGET WEED REMOVAL MULTI 15 KK
TARGET WEED REMOVAL MULTI 15 LL
TARGET WEED REMOVAL MULTI 15 MM
LIGHT TREATMENT MULTI 15 NN
15 UU HEAVY TREATMENT MULTI
15 VV LIGHT TREATMENT MULTI

NOTE: EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

INVASIVE PLANT REMOVAL PLAN

SCALE: 1"=100'

PR-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
03-LANDSCAPE ARCHITECTURE
SENIOR LANDSCAPE ARCHITECT T. CHRIS JOHNSON
CALCULATED-DESIGNED BY J. PIETRZAK
CHECKED BY D. BREWER
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 18-FEB-2015
TIME PLOTTED => 15:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	48.0	12	20

LICENSED LANDSCAPE ARCHITECT

1-20-15
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
JEFFREY L. PIETRZAK
No. 4457
Signature
12-31-15
Renewal Date
1-20-15
Date
STATE OF CALIFORNIA

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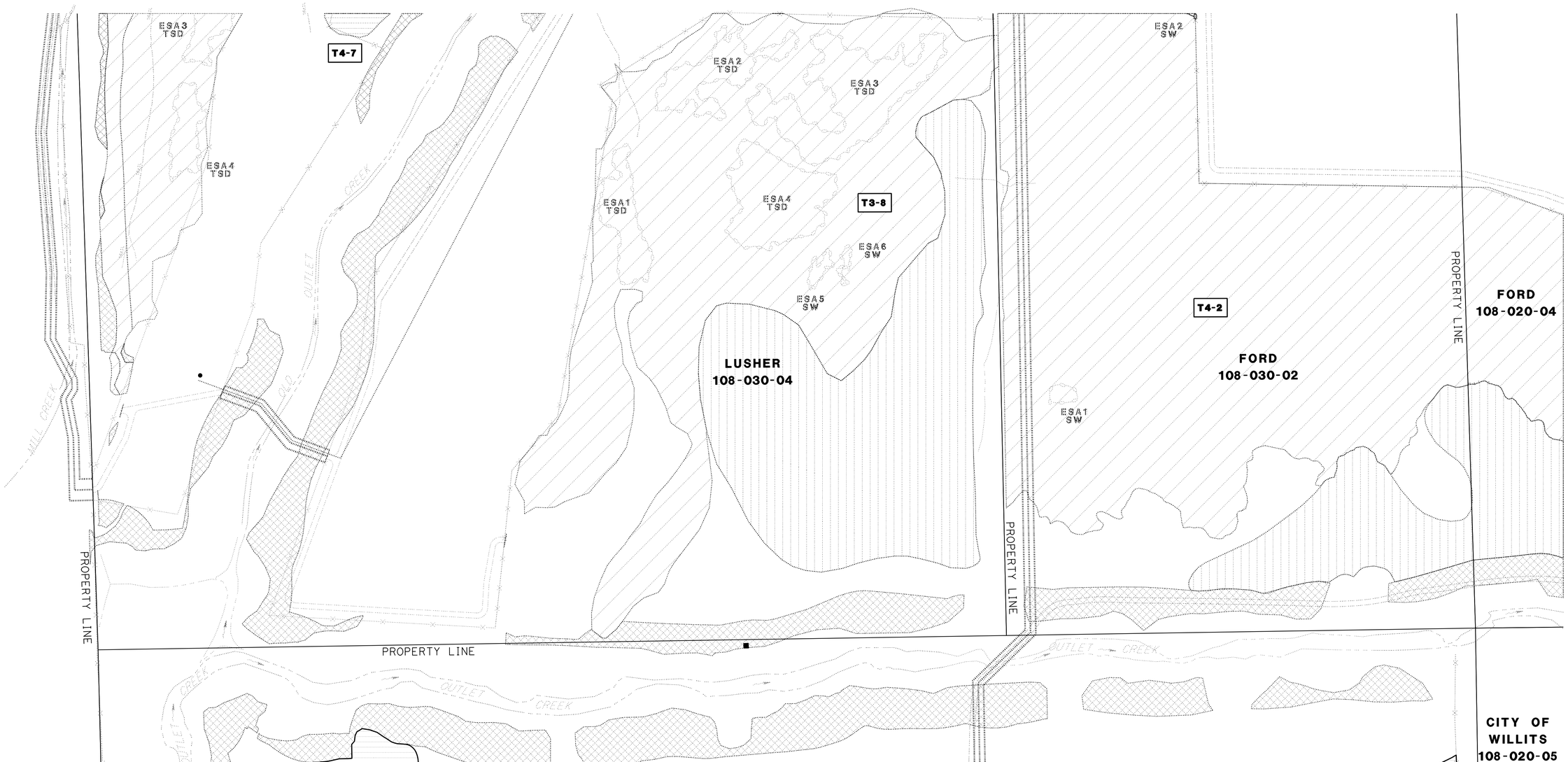
KEYMAP

WILLITS
T18N R13W MDB&M
SEC 6 & 7



WETLAND REHABILITATION (TYPE 3) 12 Y

WETLAND REHABILITATION (TYPE 3) 12 U

WETLAND REHABILITATION (TYPE 3) 12 T

NOTE: EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

PLANTING PLAN

PP-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY: J. PIETRZAK

CHECKED BY: D. BREWER

REVISED BY

DATE REVISED

LAST REVISION 00-00-00

DATE PLOTTED => 18-FEB-2015
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	48.0	13	20

LICENSED LANDSCAPE ARCHITECT

1-20-15
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
JEFFREY L. PIETRZAK
No. 4457
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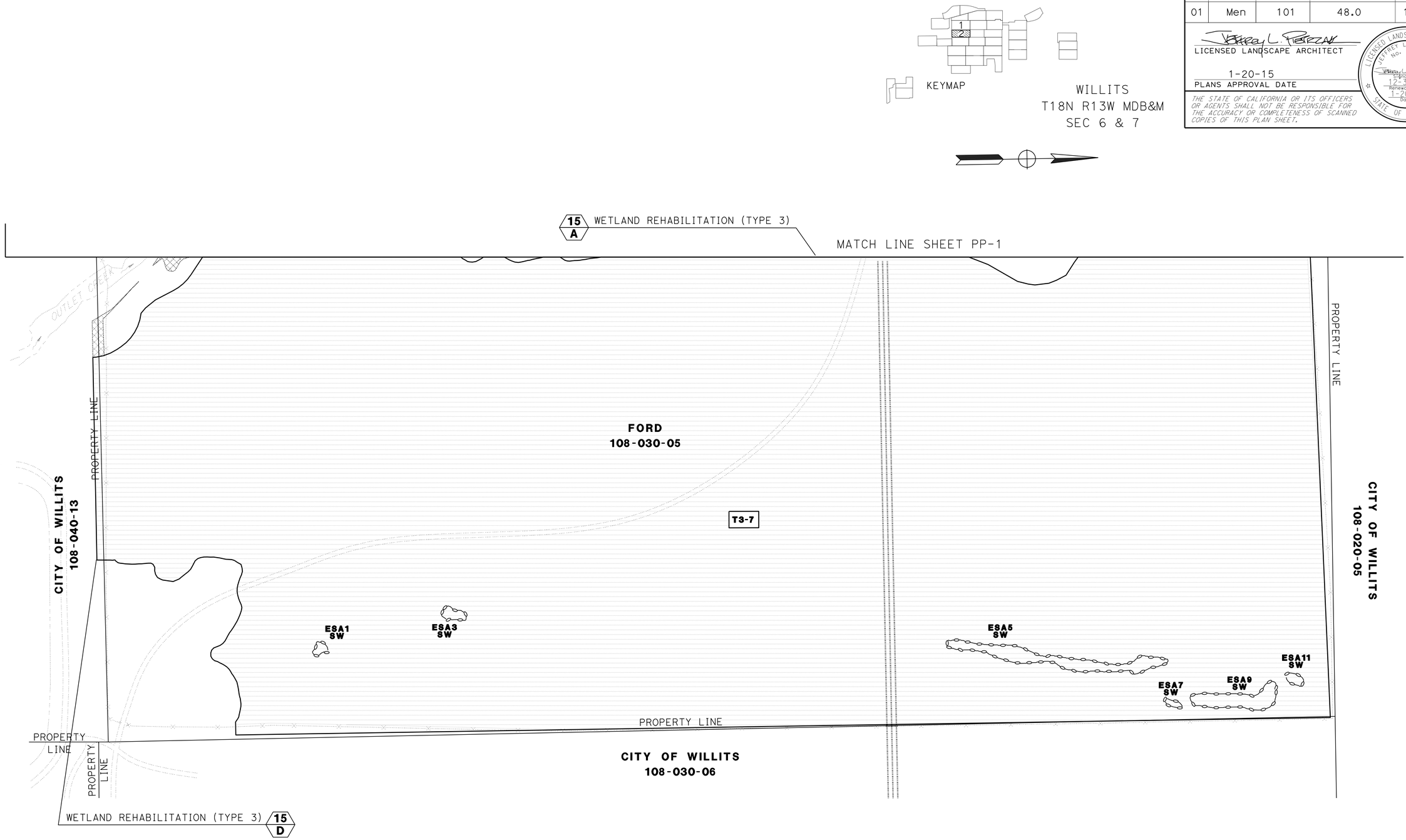

NOTE: EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

PLANTING PLAN

SCALE: 1"=100'

PP-2

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

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY: J. PIETRZAK
CHECKED BY: D. BREWER

REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 18-FEB-2015
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	48.0	14	20

LICENSED LANDSCAPE ARCHITECT

1-20-15
PLANS APPROVAL DATE

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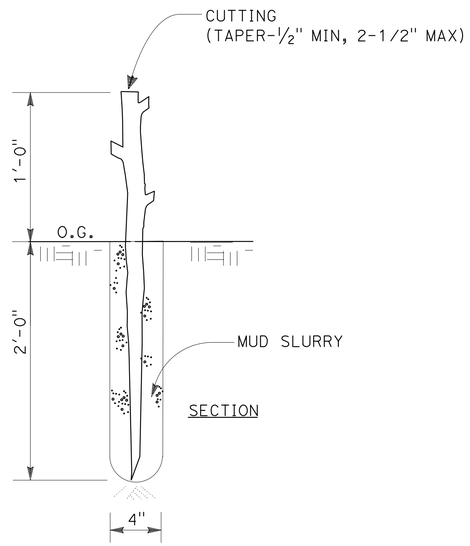
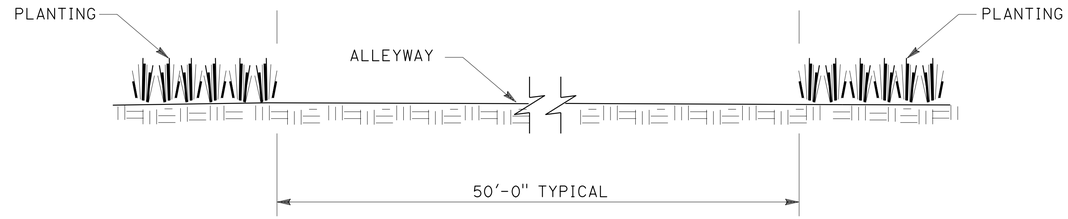


PLANT GROUP W (CUTTING)

NOTE:

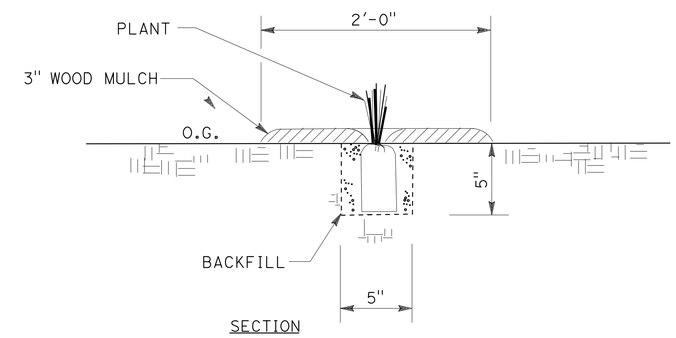
NO PLANTING IS TO BE PLACED WITHIN LIMITS OF ALLEYWAY.



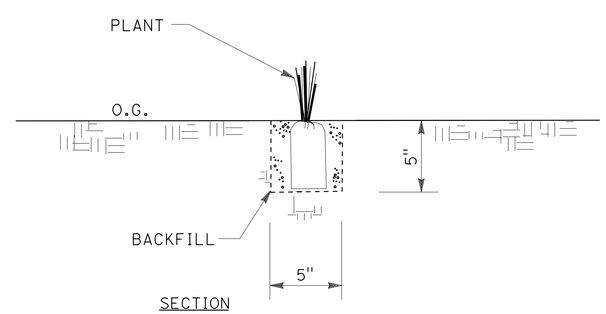
PLANTING AT ALLEYWAY

NOTE:

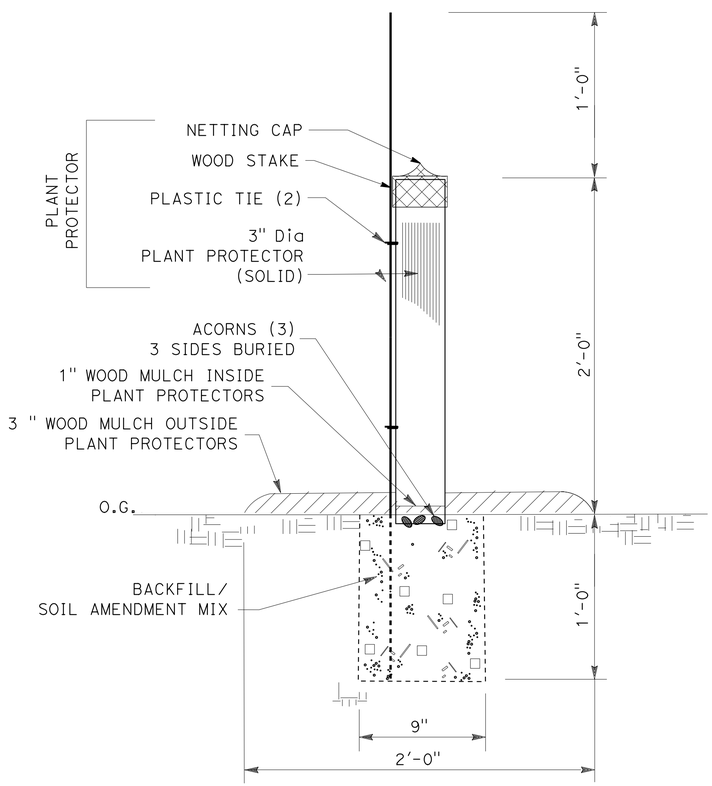
1. HOLD WOOD MULCH AWAY FROM BASE OF PLANT.



PLANT GROUP M-M (LINER)



PLANT GROUP M (LINER)



PLANT GROUP O-M (ACORN)

LANDSCAPE DETAILS

NO SCALE

LD-1

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

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY: J. PIETRZAK
CHECKED BY: D. BREWER

REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 18-FEB-2015 | TIME PLOTTED => 15:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	48.0	15	20

LICENSED LANDSCAPE ARCHITECT

1-20-15
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT JEFFREY L. PIETRZAK No. 4457 Signature 12-31-15 Renewal Date 1-20-15 Date STATE OF CALIFORNIA

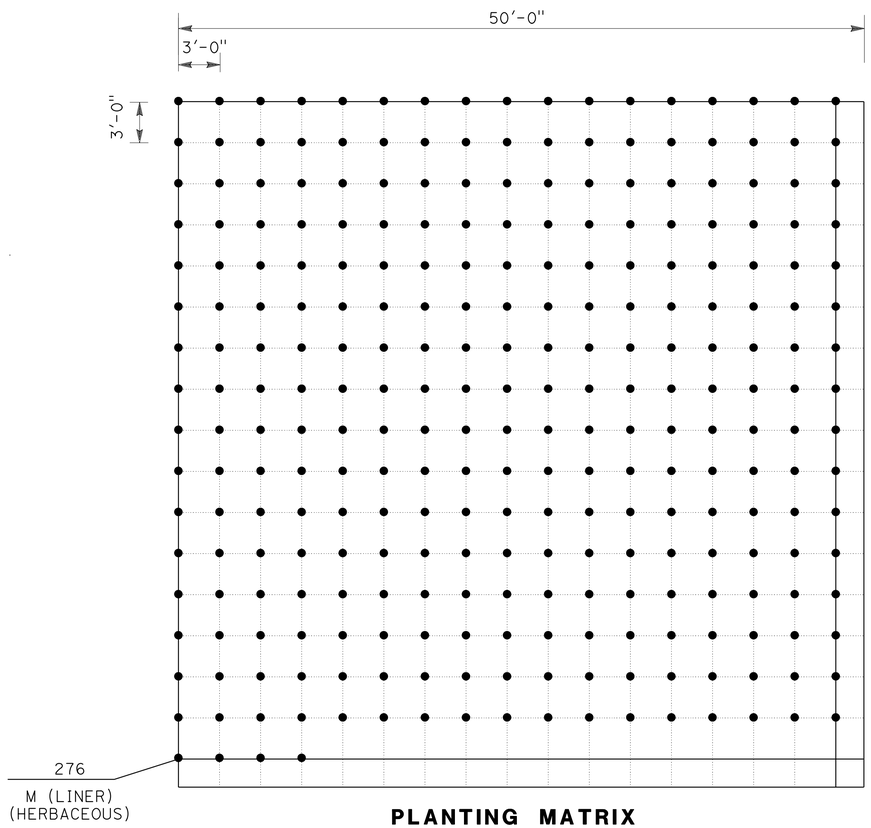
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

1) WOODY LAYER GRID IS TO BE PLACED ON TOP OF HERBACEOUS LAYER GRID.

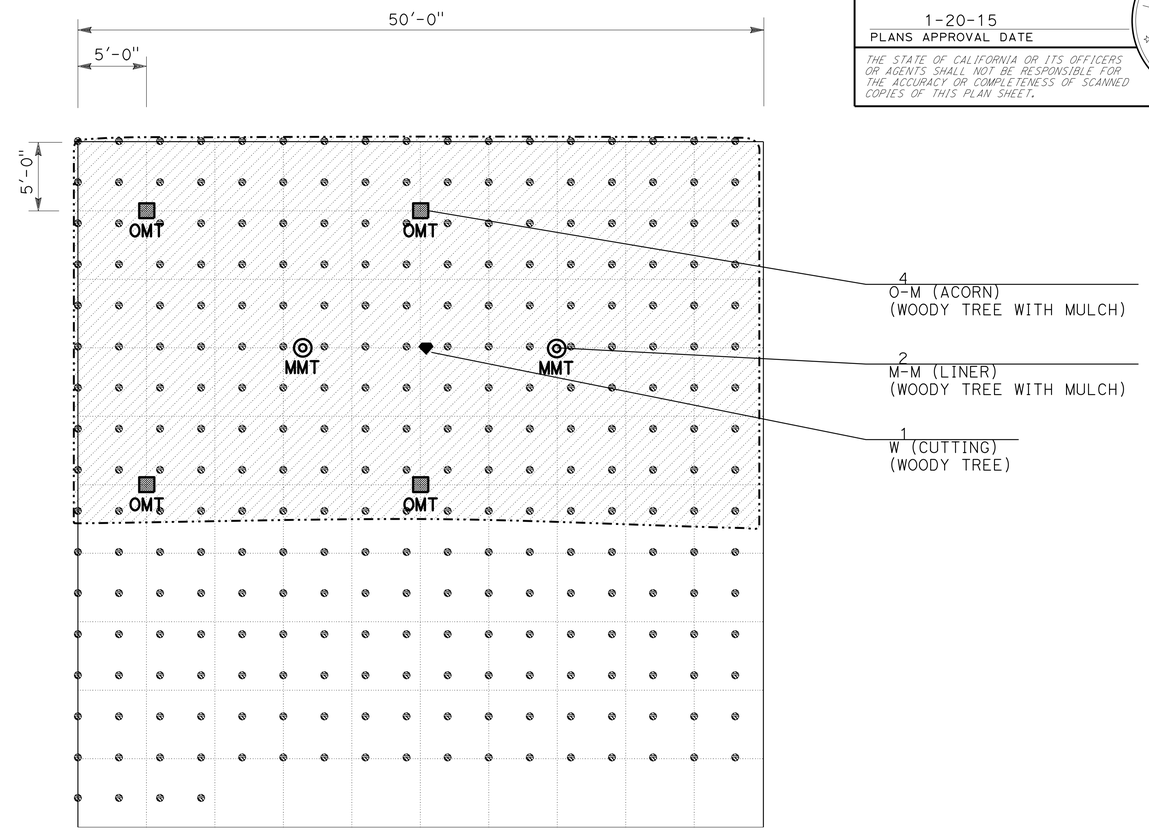
LEGEND:

SYMBOL	PLANT GROUP	HABIT	MULCH	ON CENTER SPACING	NOTES	PLANT GROUP QUANTITIES BY PLANT PALETTE PER 50' X 50' AREA P-WRT3-3 EA
●	M (LINER)	HERBACEOUS	NO	3'	--	276



PLANTING MATRIX

P-WRT3-3
(HERBACEOUS LAYER)



PLANTING MATRIX

P-WRT3-3
(WOODY LAYER)

LEGEND:

MOWING LIMIT.
NO MOWING ALLOWED WITHIN THIS AREA.

SYMBOL	PLANT GROUP	HABIT	MULCH	ON CENTER SPACING	NOTES	PLANT GROUP QUANTITIES BY PLANT PALETTE PER 50' X 50' AREA P-WRT3-3 EA
◆	W (CUTTING)	WOODY TREE	NO	20'	--	1
◎ MMT	M-M (LINER)	WOODY TREE	YES	20'	--	2
▣ OMT	O-M (ACORN)	WOODY TREE	YES	20'	--	4

LANDSCAPE DETAILS

NO SCALE

LD-2

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

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY: J. PIETRZAK
CHECKED BY: D. BREWER

REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 18-FEB-2015 | TIME PLOTTED => 15:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	48.0	16	20

LICENSED LANDSCAPE ARCHITECT

1-20-15
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT JEFFREY L. PIETRZAK No. 4457 Signature 12-31-15 Renewal Date 1-20-15 Date STATE OF CALIFORNIA

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INVASIVE PLANT REMOVAL

SHEET	HEAVY TREATMENT		LIGHT TREATMENT		TARGETED WEED REMOVAL	
	(N) SQFT	ACRE	(N) SQFT	ACRE	(N) SQFT	ACRE
PR-1	155908	3.58	13004	0.30	2375	0.05
PR-2	1257420	28.87	1162408	26.69	73451	1.69
TOTAL	1413328	32.45	1175412	26.98	75826	1.77

(N) NOT A SEPARATE PAY ITEM. FOR INFORMATIONAL PURPOSES ONLY.

MOVE IN/ MOVE OUT EROSION CONTROL

YEAR	EA
1	3
2	1
3	1
TOTAL	5

EROSION CONTROL QUANTITIES

(N) EROSION CONTROL TYPE	(N) ACRES	INCORPORATE MATERIALS	EROSION CONTROL (DRILL SEED)	EROSION CONTROL (DRY SEED)	(N) RATE PER ACRE	STRAW (NATIVE GRASS)
		SQFT	ACRES	ACRES	TONS	SQFT
EROSION CONTROL- TYPE B	1.77	77007	--	1.77	2.0	77007
EROSION CONTROL- TYPE D	32.45	1413328	32.45	--	2.0	1413328
	TOTAL	1490335	32.4	1.8		1490335

(N) NOT A SEPARATE PAY ITEM. FOR INFORMATIONAL PURPOSES ONLY.

TEMPORARY TACKED STRAW
QUANTITY (SQYD)
2,600

MOVE-IN/MOVE-OUT (EROSION CONTROL)
QUANTITY (EA)
30

TEMPORARY CONSTRUCTION ENTRANCE
QUANTITY (EA)
5

TEMPORARY FIBER ROLL
QUANTITY (LF)
15000

SEED QUANTITIES

BOTANICAL NAME	COMMON NAME	PERCENT GERMINATION	WETLAND INDICATOR STATUS	POUNDS PURE LIVE SEED PER ACRE ①	POUNDS PURE LIVE SEED
				(N) S-WET 34.21 ACRE	
AGROSTIS EXARATA	SPIKE BENTGRASS	45%	FAC	0.1	3.5
ALOPECURUS SACCATUS	PACIFIC FOXTAIL	45%	OBL	--	--
AMBROSIA PSILOSTACHYA	CUMAN RAGWEED	45%	FAC	5.2	178.8
ARTEMISIA DOUGLASIANA	MUGWORT	45%	FACW	1.3	43.7
CAMASSIA QUAMASH	SMALL CAMAS	45%	FACW	--	--
DANTHONIA CALIFORNICA	CALIFORNIA OATGRASS	45%	FACW	--	--
DESCHAMPSIA CESPITOSA	TUFTED HAIRGRASS	45%	FACW	0.2	7.6
DESCHAMPSIA DANTHONIODES	ANNUAL HAIRGRASS	45%	FACW	OPT	--
DESCHAMPSIA ELONGATA	SLENDER HAIRGRASS	45%	FACW	0.2	8.0
ELEOCHARIS MACROSTACHYA	COMMON SPIKERUSH	45%	OBL	--	--
ELYMUS TRITICOIDES	CREEPING WILDRYE	45%	FACW	6.3	216.6
HORDEUM BRACHYANTHERUM SSP. BRACHYANTHERUM	MEADOW BARLEY	45%	FACW	10.1	345.0
HORDEUM BRACHYANTHERUM SSP. CALIFORNICUM	CALIFORNIA BARLEY	45%	FACW	1.4	46.9
PERSICARIA PUNCTATA	WATER SMARTWEED	45%	OBL	OPT	--
				24.8	850.2

① SPECIES LISTED AS "OPT" MAY BE USED AS OPTIONAL SPECIES FOR A MAXIMUM COMBINED TOTAL OF 10% OF A GIVEN PLANT PALETTE.

(N) NON PAY ITEM; FOR INFORMATION ONLY

LANDSCAPE QUANTITIES
LQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
03-LANDSCAPE ARCHITECTURE
SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON
CALCULATED-DESIGNED BY: J. PIETRZAK
CHECKED BY: D. BREWER
REVISED BY / DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 18-FEB-2015
TIME PLOTTED => 15:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	48.0	17	20

LICENSED LANDSCAPE ARCHITECT

1-20-15
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT JEFFREY L. PIETRZAK No. 4457 Signature 12-31-15 Renewal Date 1-20-15 Date STATE OF CALIFORNIA

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PLANT QUANTITIES

LIFEFORM	PLANT GROUP	BOTANICAL NAME	COMMON NAME	WETLAND INDICATOR STATUS	SIZE	PLANT GROUP EA			
						M	M-M	O-M	W
H	M	AGROSTIS EXARATA	SPIKE BENTGRASS	FAC	LINER	0			
H	M	AMBROSIA PSILOSTACHYA	CUMAN RAGWEED	FAC	LINER	0			
H	M	APOCYNUM CANNABINUM	INDIAN HEMP	FAC	LINER	0			
H	M	ARTEMISIA DOUGLASIANA	MUGWORT	FACW	LINER	14303			
H	M	ASCLEPIAS FASCICULARIS	NARROWLEAF MILKWEED	FAC	LINER	0			
H	M	BECKMANNIA SYZIGACHE	AMERICAN SLOUGHGRASS	OBL	LINER	OPT			
H	M	CAMASSIA QUAMASH	SMALL CAMAS	FACW	LINER	OPT			
H	M	CAREX ATHROSTACHYA	SLENDERBEAK SEDGE	FACW	LINER	OPT			
H	M	CAREX DENSA	DENSE SEDGE	OBL (FACW)	LINER	5721			
H	M	CAREX NEBRASCENSIS	NEBRASKA SEDGE	OBL	LINER	OPT			
H	M	CAREX PRAEGRACILIS	FIELD SEDGE	FACW	LINER	42910			
H	M	CAREX TUMULICOLA	FOOTHILL SEDGE	FACW	LINER	5721			
H	M	CAREX UTRICULATA	COMMON BEAKED SEDGE	OBL	LINER	OPT			
H	M	DANTHONIA CALIFORNICA	CALIFORNIA OATGRASS	FACW	LINER	8582			
H	M	DESCHAMPSIA CESPITOSA	TUFTED HAIRGRASS	FACW	LINER	8582			
H	M	DESCHAMPSIA DANTHONIODES	ANNUAL HAIRGRASS	FACW	LINER	OPT			
H	M	DESCHAMPSIA ELONGATA	SLENDER HAIRGRASS	FACW	LINER	11443			
H	M	ELEOCHARIS MACROSTACHYA	PALE SPIKERUSH	OBL	LINER	14303			
H	M	ELYMUS TRITICOIDES	BEARDLESS WILDRYE	FAC+	LINER	34328			
H	M	EQUISETUM ARVENSE	FIELD HORSETAIL	FAC	LINER	0			
H	M	EQUISETUM TELMATEIA	GIANT HORSETAIL	OBL	LINER	OPT			
H	M	EUTHAMIA OCCIDENTALIS	WESTERN GOLDENROD	OBL	LINER	0			
H	M	HORDEUM BRACHYANTHERUM SSP. BRACHYANTHERUM	MEADOW BARLEY	FACW	LINER	37189			
H	M	HORDEUM BRACHYANTHERUM SSP. CALIFORNICUM	CALIFORNIA BARLEY	FACW	LINER	0			
H	M	JUNCUS BALTICUS	BALTIC RUSH	OBL	LINER	28607			
H	M	JUNCUS BOLANDERI	BOLANDER'S RUSH	OBL	LINER	OPT			
H	M	JUNCUS EFFUSUS	SOFT RUSH	OBL	LINER	22885			
H	M	JUNCUS OCCIDENTALIS	WESTERN RUSH	FACW	LINER	OPT			
H	M	JUNCUS PATENS	COMMON RUSH	FAC	LINER	28607			
H	M	JUNCUS PHAEOCEPHALUS	BROWN HEADED RUSH	FACW	LINER	11443			
H	M	JUNCUS TENUIS	SLENDER RUSH	FACW	LINER	OPT			
H	M	JUNCUS XIPHIODES	IRISLEAF RUSH	OBL	LINER	11443			
H	M	PERSICARIA PUNCTATA	WATER SMARTWEED	OBL	LINER	0			
H	M	SCHOENOPLECTUS* ACUTUS	TULE	OBL	LINER	0			
H	M	SCIRPUS MICROCARPUS	SMALL FRUIT BULLRUSH	OBL	LINER	0			
H	M	SYMPHOTRICHUM CHILENSE	PACIFIC ASTER	FAC	LINER	0			
H	M	TYPHA LATIFOLIA	CATTAIL	OBL (FACW)	LINER	0			
WS	M-M	BACCHARIS SALICIFOLIA	MULEFAT	FACW	LINER		0		
WS	M-M	CALYCANTHUS OCCIDENTALIS	WESTERN SPICEBUSH	FACW	LINER		0		
WS	M-M	CORNUS GLABRATA	BROWN DOGWOOD	FACW	LINER		0		
WS	M-M	CORNUS SERICIEA	RED OSIER DOGWOOD	FACW	LINER		0		
WS	M-M	PHYSOCARPUS CAPITATUS	PACIFIC NINEBARK	FACW	LINER		0		
WS	M-M	ROSA CALIFORNICA	CALIFORNIA ROSE	FAC+ (FAC)	LINER		0		
WS	M-M	RIBES DIVARICATUM	COASTAL BLACK GOOSEBERRY	FACW	LINER		0		
WS	M-M	RUBUS LEUCODERMIS	WHITE BARK RASBERRY	FAC	LINER		0		
WS	M-M	RUBUS URSINUS	CALIFORNIA BLACKBERRY	FACW	LINER		0		
WS	M-M	SAMBUCUS NIGRA SSP. CAERULEA	BLUE ELDERBERRY	FAC	LINER		0		
WS	M-M	VITIS CALIFORNICA	CALIFORNIA GRAPE	FACW	LINER		0		

SOIL AMENDMENT

PLANT GROUP	(N) PLANT COUNT	(N) RATE EACH CF	(N) CF	CY
O-M	3865	0.1	387	14
			TOTAL	14

(N) INFORMATION PURPOSES ONLY; NOT A PAY ITEM

MULCH

PLANT GROUP	(N) PLANT COUNT	DEPTH LF	DIAMETER LF	(N) RATE EACH CF	(N) CF	CY
M-M	1933	0.25	2.0	0.79	1517	56
O-M	3865	0.25	2.0	0.79	3034	112
					TOTAL	169

(N) INFORMATION PURPOSES ONLY; NOT A PAY ITEM

PLANT QUANTITIES

LIFEFORM	PLANT GROUP	BOTANICAL NAME	COMMON NAME	WETLAND INDICATOR STATUS	SIZE	PLANT GROUP EA			
						M	M-M	O-M	W
WT	M-M	ACER CIRCINATUM	VINE MAPLE	FAC	LINER		0		
WT	M-M	ACER MACROPHYLLUM	BIGLEAF MAPLE	FACW	LINER		0		
WT	M-M	ACER NEGUNDO	BOX ELDER	FACW	LINER		0		
WT	M-M	ALNUS RHOMBIFOLIA	WHITE ALDER	FACW	LINER		0		
WT	M-M	FRAXINUS LATIFOLIA	OREGON ASH	FACW	LINER		1288		
WT	M-M	POPULUS FREMONTII	FREMONT COTTONWOOD	FAC	LINER		644		
WT	M-M	QUERCUS GARRYANA	GARRY OAK	FACU	LINER		0		
WT	M-M	UMBELLULARIA CALIFORNICA	CALIFORNIA BAY	FAC	LINER		0		
WT	O-M	QUERCUS LOBATA	VALLEY OAK	FAC	LINER			3865	
WT	W	SALIX EXIGUA	RED WILLOW	OBL	CUTTING				0
WT	W	SALIX LAEVIGATA	SANDBAR WILLOW	NL (OBL)	CUTTING				0
WT	W	SALIX LASIANDRA VAR LASIANDRA	PACIFIC WILLOW	OBL	CUTTING				0
WT	W	SALIX LASIOLEPIS	ARROYO WILLOW	FACW	CUTTING				644
					TOTAL	286068	1933	3865	644

LANDSCAPE QUANTITIES

LQ-2

REVISED BY | DATE REVISED
J. PIETRZAK | D. BREWER
CALCULATED-DESIGNED BY | CHECKED BY
SENIOR LANDSCAPE ARCHITECT
T. CHRIS JOHNSON
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
03-LANDSCAPE ARCHITECTURE

LAST REVISION 00-00-00 | DATE PLOTTED => 18-FEB-2015 | TIME PLOTTED => 15:31

M

Maint	MAINTENANCE
Max	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
Med	MEDIAN
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
Min	MINIMUM
Misc	MISCELLANEOUS
Misc I & S	MISCELLANEOUS IRON AND STEEL
Mkr	MARKER
Mod	MODIFIED,
	MODIFY
Mon	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD RAILING
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EMBANKMENT
Mt	MOUNTAIN, MOUNT
Mtl	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT

N

N	NORTH
NB	NORTHBOUND
No.	NUMBER (MUST HAVE PERIOD)
Nos.	NUMBERS (MUST HAVE PERIOD)
NPS	NOMINAL PIPE SIZE
NS	NEAR SIDE
NSP	NEW STANDARD PLAN
NTS	NOT TO SCALE

O

Oblr	OBLITERATE
OC	OVERCROSSING
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OGAC	OPEN GRADED ASPHALT CONCRETE
OGFC	OPEN GRADED FRICTION COURSE
OH	OVERHEAD
OHWM	ORDINARY HIGH WATER MARK
O-O	OUT TO OUT
Opp	OPPOSITE
OSD	OVERSIDE DRAIN

P

p	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX
PC	POINT OF CURVATURE,
	PRECAST
PCC	POINT OF COMPOUND CURVE,
	PORTLAND CEMENT CONCRETE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
PCP	PERFORATED CONCRETE PIPE,
	PRESTRESSED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PEC	PERMIT TO ENTER AND CONSTRUCT
Ped	PEDESTRIAN
Ped OC	PEDESTRIAN OVERCROSSING
Ped UC	PEDESTRIAN UNDERCROSSING
Perm Mtl	PERMEABLE MATERIAL

P continued

PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
ℙ,PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE,
	TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POC	POINT OF HORIZONTAL CURVE
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE,
	PLASTIC PIPE,
	POWER POLE
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE
PRF	PAVEMENT REINFORCING FABRIC
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
Pvmt	PAVEMENT

Q

Qty	QUANTITY

R

R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
Rd	ROAD
Reinf	REINFORCED,
	REINFORCEMENT,
	REINFORCING
Rel	RELOCATE
Repl	REPLACEMENT
Ret	RETAINING
Rev	REVISED, REVISION
Rdwy	ROADWAY
RHMA	RUBBERIZED HOT MIX ASPHALT
Riv	RIVER
RM	ROAD-MIXED
RP	RADIUS POINT,
	REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION,
	REVISED STANDARD PLAN
Rt	RIGHT
Rte	ROUTE
RW	REDWOOD,
	RETAINING WALL
R/W	RIGHT OF WAY
Rwy	RAILWAY

S

S	SOUTH,
	SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
Salv	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
Sec	SECOND,
	SECTION
Sep	SEPARATION
SG	SUBGRADE
Shld	SHOULDER
Sht	SHEET
Sim	SIMILAR
℄	STATION LINE
SM	SELECTED MATERIAL
Spec	SPECIAL,
	SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
St	STREET
Sta	STATION
STBB	SINGLE THRIE BEAM BARRIER
Std	STANDARD
Str	STRUCTURE
Surf	SURFACING
SW	SIDEWALK,
	SOUND WALL
Swr	SEWER
Sym	SYMMETRICAL
S4S	SURFACE 4 SIDES

T

T	SEMI-TANGENT
Tan	TANGENT
TBB	THRIE BEAM BARRIER
Tbr	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
Tel	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

T continued

TS	TRANSVERSE,
	TRAFFIC SIGNAL,
	TUBULAR STEEL
Typ	TYPICAL

U

UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS

V

V	VALVE,
	DESIGN SPEED
Var	VARIABLE,
	VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME

W

W	WEST,
	WIDTH
WB	WESTBOUND
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
Wt	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWLOL	WINGWALL LAYOUT LINE

X

X Sec	CROSS SECTION
Xing	CROSSING

Y

Yr	YEAR
Yrs	YEARS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	48.0	18	20

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Grace M. Tsushima No. C49814 Exp. 9-30-14 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.

TO ACCOMPANY PLANS DATED 1-20-15

UNIT OF MEASUREMENT SYMBOLS:

Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

TABLE A

SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

TABLE B

SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft^3, pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
ø	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kip	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ABBREVIATIONS (SHEET 2 OF 2)

NO SCALE

RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A10B

2010 REVISED STANDARD PLAN RSP A10B

6-7-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	48.0	19	20

LICENSED LANDSCAPE ARCHITECT

July 19, 2013
PLANS APPROVAL DATE

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.

LICENSED LANDSCAPE ARCHITECT — Gregory A. Balzer — 2576 — 02-28-15 Renewal Date — 7-19-13 Date — STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 1-20-15

A

AB	AGGREGATE BASE
ABS	ACRYLONITRILE-BUTADIENE-STYRENE
AC	ASPHALT CONCRETE
ACC	ARMOR-CLAD CONDUCTORS
Adj	ADJACENT/ADJUSTABLE
AIC	AUXILIARY IRRIGATION CONTROLLER
Alt	ALTERNATIVE
AMEND	AMENDMENT
ARV	AIR RELEASE VALVE
AUTO	AUTOMATIC
AUX	AUXILIARY
AVB	ATMOSPHERIC VACUUM BREAKER

B

B&B	BALLED AND BURLAPPED
B/B	BRASS/BRONZE
B/B/PL	BRASS/BRONZE/PLASTIC
B/PL	BRASS/PLASTIC
BFM	BONDED FIBER MATRIX
Bit Ctd	BITUMINOUS COATED
BP	BOOSTER PUMP
BPA	BACKFLOW PREVENTER ASSEMBLY
BPE	BACKFLOW PREVENTER ENCLOSURE
BV	BALL VALVE

C

C	CONDUIT
CAP	CORRUGATED ALUMINUM PIPE
CARV	COMBINATION AIR RELEASE VALVE
CB	COUPLING BAND
CCA	CAM COUPLER ASSEMBLY
CEC	CONTROLLER ENCLOSURE CABINET
CHDPE	CORRUGATED HIGH DENSITY POLYETHYLENE
CL	CHAIN LINK
CNC	CONTROL AND NEUTRAL CONDUCTORS
Conc	CONCRETE
CP	COPPER PIPE
CS	COMPOST SOCK
CSP	CORRUGATED STEEL PIPE
CST	CENTER STRIP
CV	CHECK VALVE

D

Dia	DIAMETER
DIP	DUCTILE IRON PIPE
DIT	DRIP IRRIGATION TUBING
DG	DECOMPOSED GRANITE
DN	DIAMETER NOMINAL
DVA	DRIP VALVE ASSEMBLY

E

EC	EROSION CONTROL
ECTC	EROSION CONTROL TECHNOLOGY COUNCIL
Elect	ELECTRIC/ELECTRICAL
Elev	ELEVATION
ELL	ELBOW
ENCL	ENCLOSURE
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
EST	END STRIP
ESTB	ESTABLISHMENT
ETW	EDGE OF TRAVELED WAY

F

F	FULL CIRCLE
F/P	FULL/PART CIRCLE
FCV	FLOW CONTROL VALVE
FERT	FERTILIZER
FG	FINISHED GRADE
FH	FLEXIBLE HOSE
FIPT	FEMALE IRON PIPE THREAD
FIS	FERTILIZER INJECTOR SYSTEM
FL	FLOW LINE
FR	FIBER ROLL
FS	FLOW SENSOR
FSC	FLOW SENSOR CABLE
FV	FLUSH VALVE

G

Galv	GALVANIZED
GARV	GARDEN VALVE
GARVA	GARDEN VALVE ASSEMBLY
GM	GRAVEL MULCH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GSP	GALVANIZED STEEL PIPE
GV	GATE VALVE

H

H	HALF CIRCLE
HDPE	HIGH DENSITY POLYETHYLENE
HP	HORSEPOWER/HINGE POINT
HPL	HIGH PRESSURE LINE
Hwy	HIGHWAY

I

IC	IRRIGATION CONTROLLER
ICC	IRRIGATION CONTROLLER(S) IN CONTROLLER ENCLOSURE CABINET
ID	INSIDE DIAMETER
IFS	IRRIGATION FILTRATION SYSTEM
IPS	IRON PIPE SIZE
IPT	IRON PIPE THREAD
Irr	IRRIGATION

L

L	LENGTH

M

Max	MAXIMUM
MBGR	METAL BEAM GUARD RAILING
MCV	MANUAL CONTROL VALVE
MIC	MASTER IRRIGATION CONTROLLER
Min	MINIMUM
MIPT	MALE IRON PIPE THREAD
Misc	MISCELLANEOUS
Mtl	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT

N

NCN	NO COMMON NAME
NL	NOZZLE LINE
No.	NUMBER
NPT	NATIONAL PIPE THREAD

O

O/C	ON CENTER
OD	OUTSIDE DIAMETER
OL	OVERLAP

P

P	PART CIRCLE
PB	PULL BOX
PCC	PORTLAND CEMENT CONCRETE
PE	POLYETHYLENE
Pkt	PACKET
PL	PLASTIC
PLS	PURE LIVE SEED
PLT	PLANT/PLANTING
PLT ESTB	PLANT ESTABLISHMENT
PM	POST MILE
PR	PRESSURE RATED
PRLV	PRESSURE RELIEF VALVE
PRV	PRESSURE REGULATING VALVE
PVC	POLYVINYL CHLORIDE
Pvmt	PAVEMENT

Q

Q	QUARTER CIRCLE
QCV	QUICK COUPLING VALVE

R

R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RCV	REMOTE CONTROL VALVE
RCVM	REMOTE CONTROL VALVE (MASTER)
RCVMF	REMOTE CONTROL VALVE (MASTER) W/FLOW SENSOR
RCVP	REMOTE CONTROL VALVE W/PRESSURE REGULATOR
RCW	RECYCLED WATER
RECP	ROLLED EROSION CONTROL PRODUCT
REQ	REQUIRED
RICS	REMOTE IRRIGATION CONTROL SYSTEM
R/W	RIGHT OF WAY

S

S	SLIP
SCH	SCHEDULE
SF	STATE-FURNISHED
Shld	SHOULDER
Sq	SQUARE
SST	SIDE STRIP
Sta	STATION
Std	STANDARD
SW	SIDEWALK/SOUND WALL

T

T	THIRD CIRCLE/THREAD
TLS	TRUCK LOADING STANDPIPE
TQ	THREE QUARTER CIRCLE
TRM	TURF REINFORCEMENT MAT
TT	TWO-THIRDS CIRCLE
TWSA	TREE WELL SPRINKLER ASSEMBLY
Typ	TYPICAL

U

UG	UNDERGROUND

W

W	WIDTH
W/	WITH
WM	WATER METER
WS	WYE STRAINER
WSA	WYE STRAINER ASSEMBLY
WSP	WELDED STEEL PIPE
WWM	WELDED WIRE MESH

NOTE:

For additional abbreviations, see Standard Plans A10A and A10B.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

LANDSCAPE AND EROSION CONTROL ABBREVIATIONS

NO SCALE

RSP H1 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H1 DATED MAY 20, 2011 - PAGE 218 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H1

2010 REVISED STANDARD PLAN RSP H1

6-28-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	48.0	20	20

Gregory A. Balzer
LICENSED LANDSCAPE ARCHITECT

November 15, 2013
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Gregory A. Balzer 2576
Signature
2-28-15
Renewal Date
11-15-13
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.

TO ACCOMPANY PLANS DATED 1-20-15

EXISTING	NEW	ITEM DESCRIPTION
		WATER METER (WM)
		BACKFLOW PREVENTER ASSEMBLY (BPA)
		BACKFLOW PREVENTER ENCLOSURE (BPE)
		BOOSTER PUMP (BP)
		TRUCK LOADING STANDPIPE (TLS)
FS	FS	FLOW SENSOR (FS)
		MASTER IRRIGATION CONTROLLER (MIC)
		AUXILIARY IRRIGATION CONTROLLER (AIC)
		IRRIGATION CONTROLLER (IC) IRRIGATION CONTROLLER (IC) (BATTERY) IRRIGATION CONTROLLER (IC) (SOLAR) IRRIGATION CONTROLLER (IC) (TWO WIRE) IRRIGATION CONTROLLER(S) IN CONTROLLER ENCLOSURE CABINET (ICC)
acc	ACC	ARMOR-CLAD CONDUCTORS (ACC)
cnc	CNC	CONTROL AND NEUTRAL CONDUCTORS (CNC)
		IRRIGATION CONDUIT
		EXTEND IRRIGATION CONDUIT
dip	DIP	DUCTILE IRON PIPE (SUPPLY LINE) (MAIN) (DIP)
		GALVANIZED STEEL PIPE (SUPPLY LINE) (MAIN) (GSP)
		GALVANIZED STEEL PIPE (SUPPLY LINE) (LATERAL) (GSP)
		PLASTIC PIPE (SUPPLY LINE) (MAIN)
		PLASTIC PIPE (SUPPLY LINE) (LATERAL)
cp	CP	COPPER PIPE (SUPPLY LINE)
dit	DIT	DRIP IRRIGATION TUBING
		REMOTE CONTROL VALVE (RCV) REMOTE CONTROL VALVE (MASTER) (RCVM) REMOTE CONTROL VALVE (MASTER) W/FLOW METER (RCVMF)
P	P	REMOTE CONTROL VALVE W/PRESSURE REGULATOR (RCVP)
		EXISTING MANUAL CONTROL VALVE (MCV)
		DRIP VALVE ASSEMBLY (DVA)
		WYE STRAINER ASSEMBLY (WSA)

EXISTING	NEW	ITEM DESCRIPTION
		GATE VALVE (GV)
		BALL VALVE (BV)
		QUICK COUPLING VALVE (QCV)
		CAM COUPLER ASSEMBLY (CCA)
		GARDEN VALVE ASSEMBLY (GARVA)
		PRESSURE REGULATING VALVE (PRV)
		PRESSURE RELIEF VALVE (PRLV)
		FLOW CONTROL VALVE (FCV)
		COMBINATION AIR RELEASE VALVE (CARV)
		CHECK VALVE (CV)
		FLUSH VALVE (FV)
		EXISTING NOZZLE LINE W/TURNING UNION
		EXISTING IRRIGATION SYSTEM
		EXISTING IRRIGATION SYSTEM TO BE REMOVED
		CHAIN LINK GATE
		QUICK COUPLING VALVE W/SPRINKLER PROTECTOR
3	3	SPRINKLER W/SPRINKLER PROTECTOR
	C	CONNECT TO EXISTING SYSTEM
		CAP
		CAP EXISTING
	\\\FR\\\	FIBER ROLL
	\\\CS\\\	COMPOST SOCK

RCV SIZE
IRRIGATION CONTROLLER
CONTROLLER STATION
VALVE IN PARALLEL (IF APPLICABLE)
GPM
QUANTITY OF SPRINKLERS (WHEN SHOWN)

* 2½"-A-2b-40-60

VALVE CODE

* VALVE CODES FOR EXISTING VALVES ARE SHOWN IN A DASHED ENCLOSURE.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

LANDSCAPE AND EROSION CONTROL SYMBOLS

NO SCALE

RSP H2 DATED NOVEMBER 15, 2013 SUPERSEDES RSP H2 DATED JULY 19, 2013 AND STANDARD PLAN H2 DATED MAY 20, 2011 - PAGE 219 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H2

2010 REVISED STANDARD PLAN RSP H2

10-9-13