INDEX OF PLANS

SHEET No.	DESCRIPTION
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24	CONSTRUCTION AREA SIGNS
25-27	DETOUR LAYOUT AND QUANTITIES
28	SIGN DETAILS AND QUANTITIES
29	SUMMARY OF QUANTITIES
30-41	LANDSCAPE PLANS
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46-66	REVISED STANDARD PLANS

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

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

ACNHP-P099(584)E

PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY

IN KERN COUNTY IN BAKERSFIELD AT VARIOUS LOCATIONS FROM 0.1 MILE NORTH OF PLANZ ROAD OVERCROSSING TO 0.1 MILE NORTH OF CALIFORNIA AVENUE UNDERCROSSING

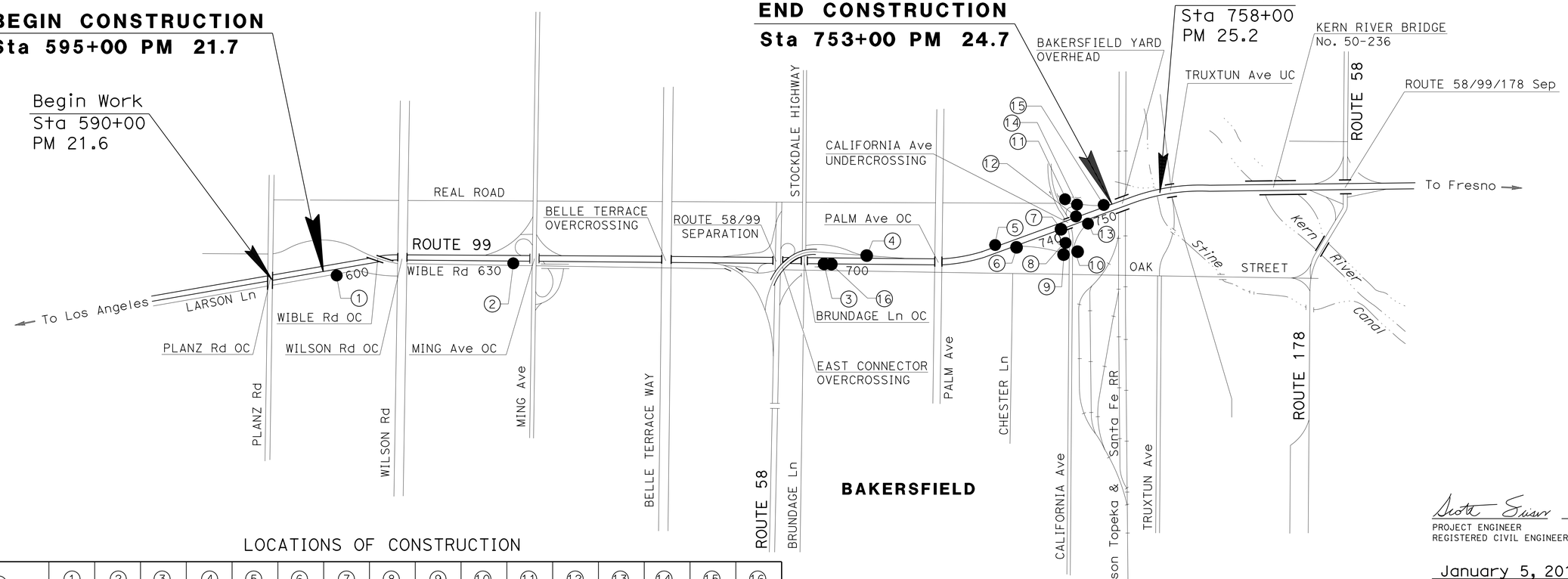
TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	1	66

LOCATION MAP

BEGIN CONSTRUCTION
Sta 595+00 PM 21.7

END CONSTRUCTION
Sta 753+00 PM 24.7



LOCATIONS OF CONSTRUCTION

Loc No. ◯	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯
PM	21.78	22.48	23.64	23.82	24.33	24.43	24.53	24.54	24.52	24.59	24.63	24.63	24.67	24.66	24.73	23.64
⇨ ROUTE 99	NB	NB	NB	SB	SB	NB	NB	NB	NB	NB	SB	SB	NB	SB	SB	NB

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

NO SCALE

Scott Friesen 1-5-15
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

January 5, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — SCOTT FRIESEN — No. 57969 — Exp. 6-30-16 — 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.

CONTRACT No.	06-0E3404
PROJECT ID	0612000122

PROJECT MANAGER: CHRIS GARDNER
DESIGN ENGINEER: SCOTT FRIESEN

LAST REVISION 12-08-14
DATE PLOTTED => 10-MAR-2015
TIME PLOTTED => 09:15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	2	66

Scott Friesen 1-5-15
REGISTERED CIVIL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT FRIESEN
No. 57969
Exp. 6-30-16
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:

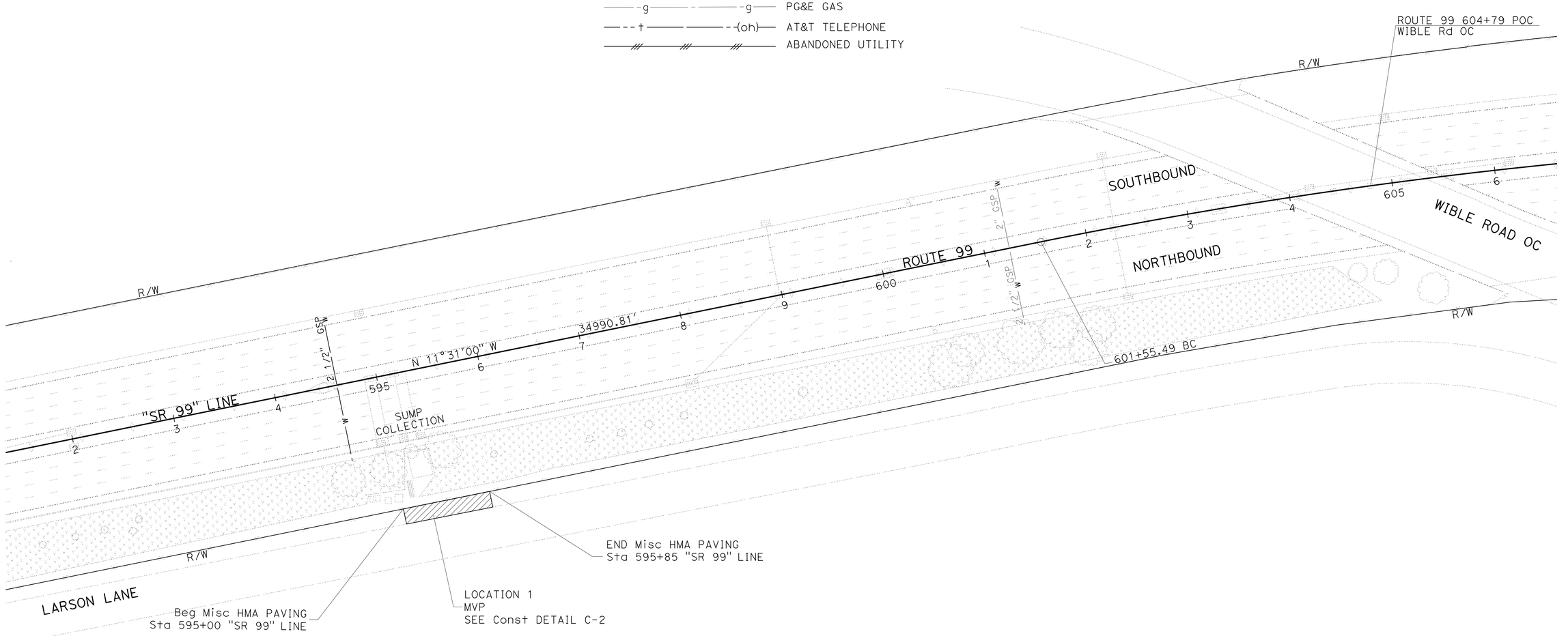
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR ADDITIONAL GORE PAVING AND MVP DETAILS, SEE CONSTRUCTION DETAIL SHEETS.

ABBREVIATIONS:

CWS - CALIFORNIA WATER SERVICE
PG&E - PACIFIC GAS AND ELECTRIC COMPANY
AT&T - AMERICAN TELEGRAPH AND TELEPHONE COMPANY

LEGEND:

MINOR HMA PAVING
MINOR CONCRETE (TEXTURED PAVING)
Exist ICEPLANT VEGETATION
TFESA TEMPORARY FENCE (TYPE ESA)
AT&T TELEPHONE
SEWER
CAL WATER
PG&E ELECTRIC
PG&E GAS
AT&T TELEPHONE
ABANDONED UTILITY



LOCATION 1
PM 21.78

LAYOUT

SCALE: 1" = 50' **L-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN
FUNCTIONAL SUPERVISOR: SCOTT FRIESEN
CALCULATED-DESIGNED BY: RANDY BOWLES
CHECKED BY: SCOTT FRIESEN
REVISED BY | DATE REVISED

LAST REVISION: DATE PLOTTED => 07-JAN-2015
12-16-14 TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010
USERNAME => s115755
DGN FILE => 0612000122ea001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1477
PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	3	66

Scott Friesen 1-5-15
REGISTERED CIVIL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT FRIESEN
No. 57969
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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NOTE:

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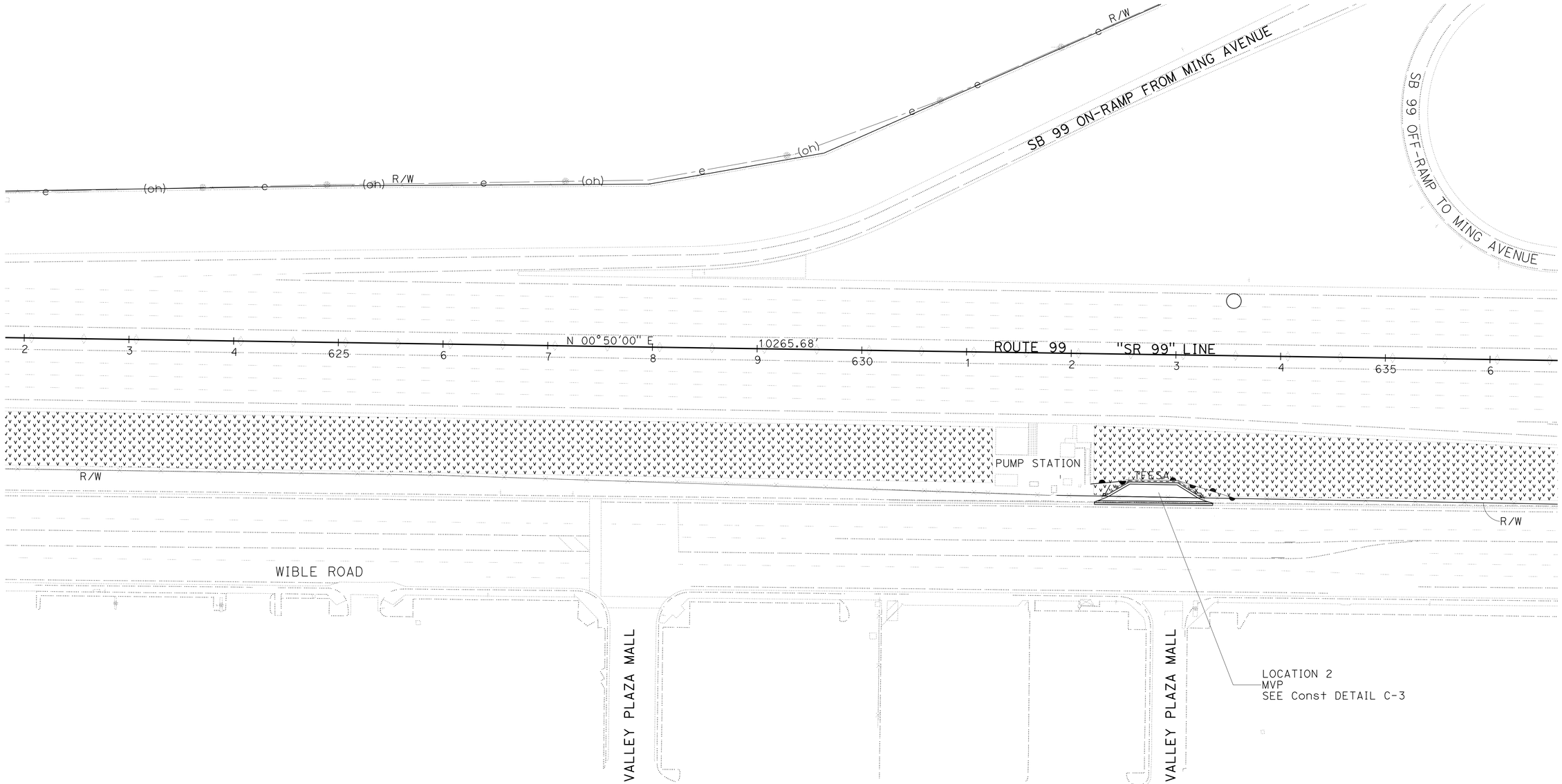
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



LOCATION 2
PM 22.48

LAYOUT
SCALE: 1" = 50' **L-2**

CALCULATED-DESIGNED BY	
CHECKED BY	
REVISED BY	RANDY BOWLES
DATE REVISED	SCOTT FRIESEN
FUNCTIONAL SUPERVISOR	SCOTT FRIESEN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN

LAST REVISION | DATE PLOTTED => 07-JAN-2015
12-16-14 | TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010 | USERNAME => s115755 | DGN FILE => 0612000122ea002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1477 | PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	4	66

Scott Friesen 1-5-15
REGISTERED CIVIL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT FRIESEN
No. 57969
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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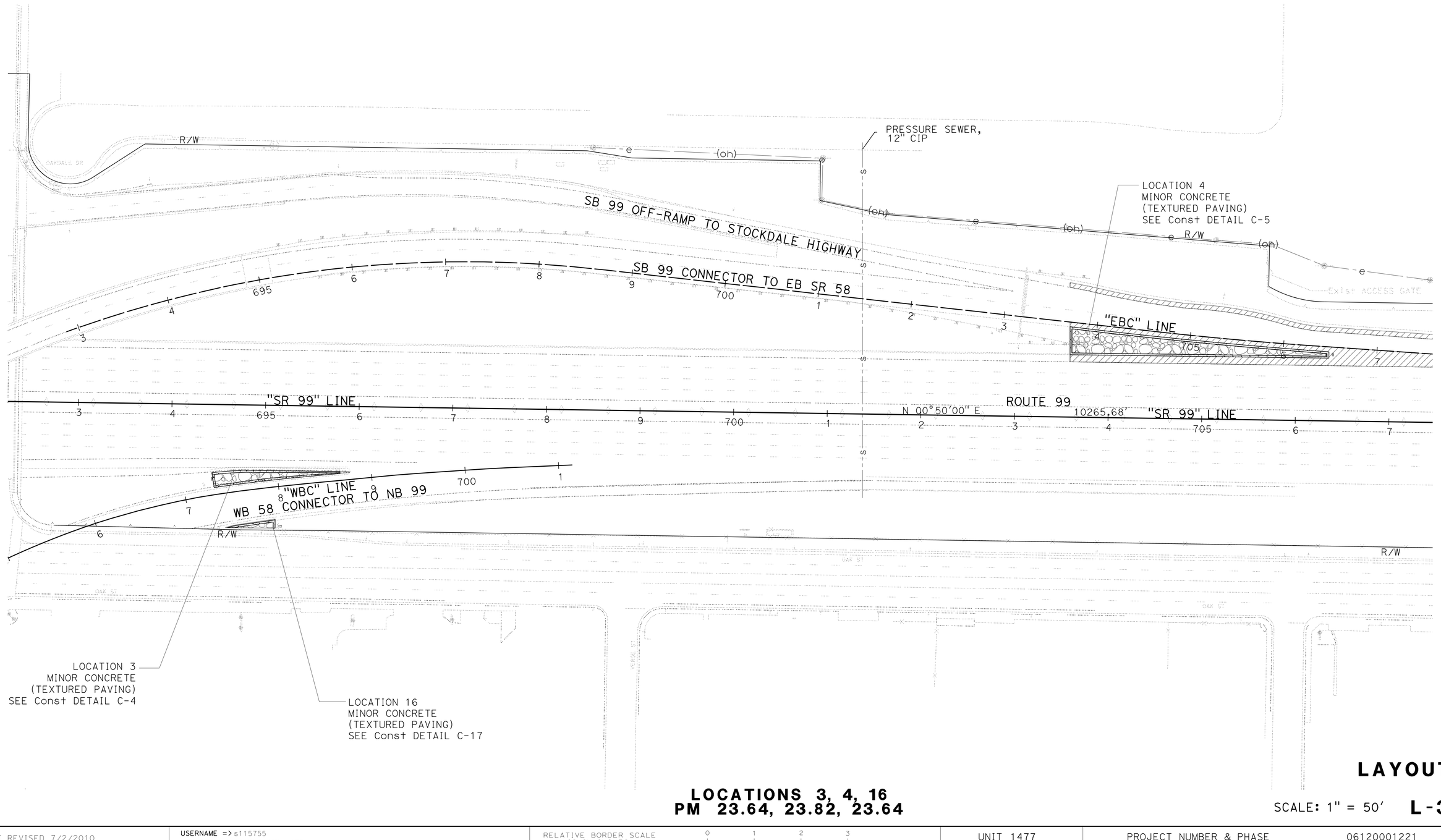
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



LOCATIONS 3, 4, 16
PM 23.64, 23.82, 23.64

LAYOUT

SCALE: 1" = 50' **L-3**

REVISED BY	RANDY BOWLES	CALCULATED-DESIGNED BY
DATE REVISED	SCOTT FRIESEN	CHECKED BY

FUNCTIONAL SUPERVISOR: SCOTT FRIESEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION | DATE PLOTTED => 07-JAN-2015
12-16-14 | TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010 | USERNAME => s115755 | DGN FILE => 0612000122ea003.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1477 | PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	5	66

Scott Friesen 1-5-15
REGISTERED CIVIL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT FRIESEN
No. 57969
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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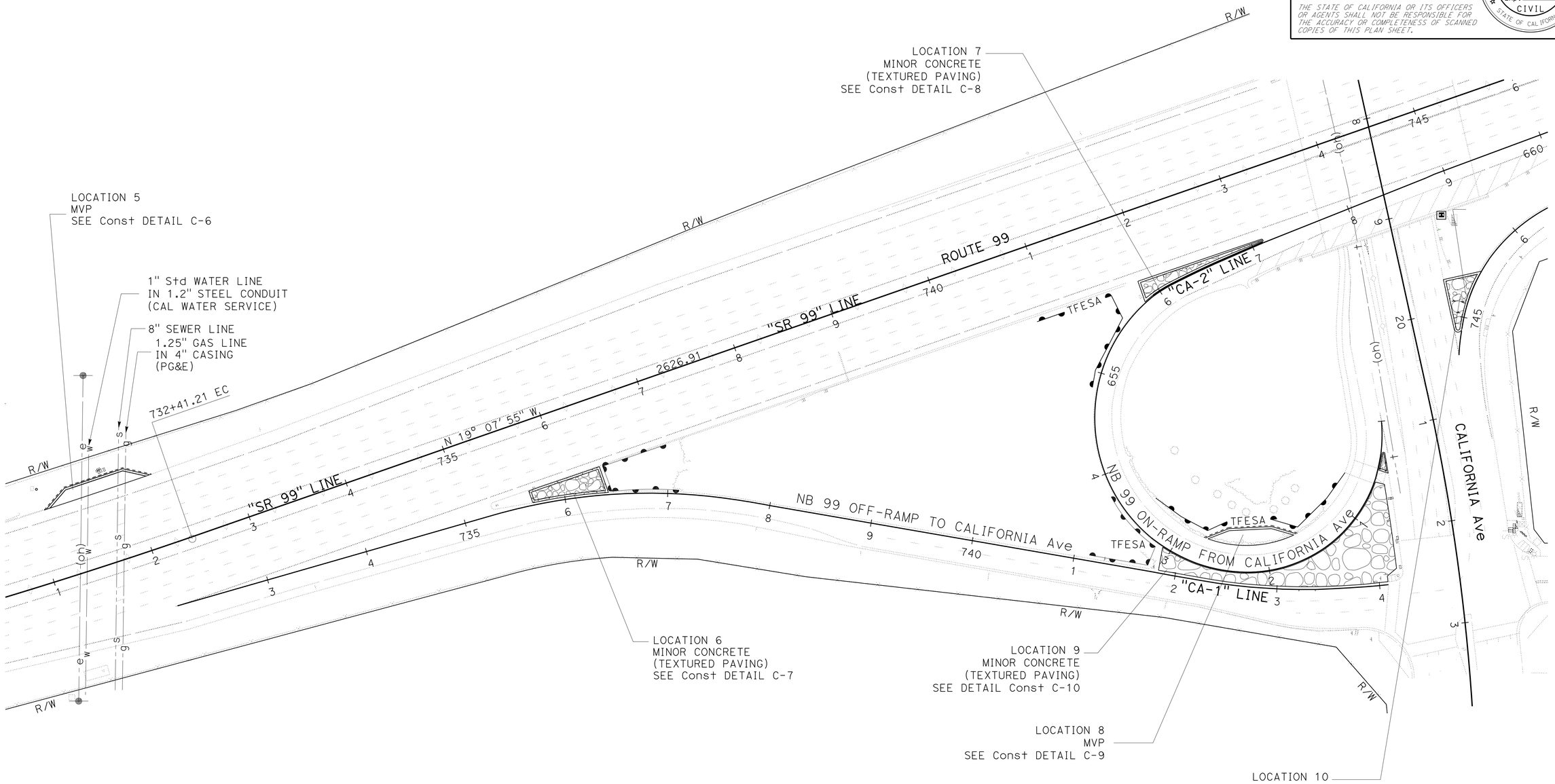
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



LOCATIONS 5, 6, 7, 8, 9, 10
PM 24.33, 24.43, 24.53, 24.54, 24.52, 24.59

LAYOUT

SCALE: 1" = 50' **L-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
FUNCTIONAL SUPERVISOR: SCOTT FRIESEN
CALCULATED-DESIGNED BY: RANDY BOWLES
CHECKED BY: SCOTT FRIESEN
REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 07-JAN-2015
12-08-14 | TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010
USERNAME => s115755
DGN FILE => 0612000122ea004.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1477
PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	6	66

Scott Friesen 1-5-15
REGISTERED CIVIL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT FRIESEN
No. 57969
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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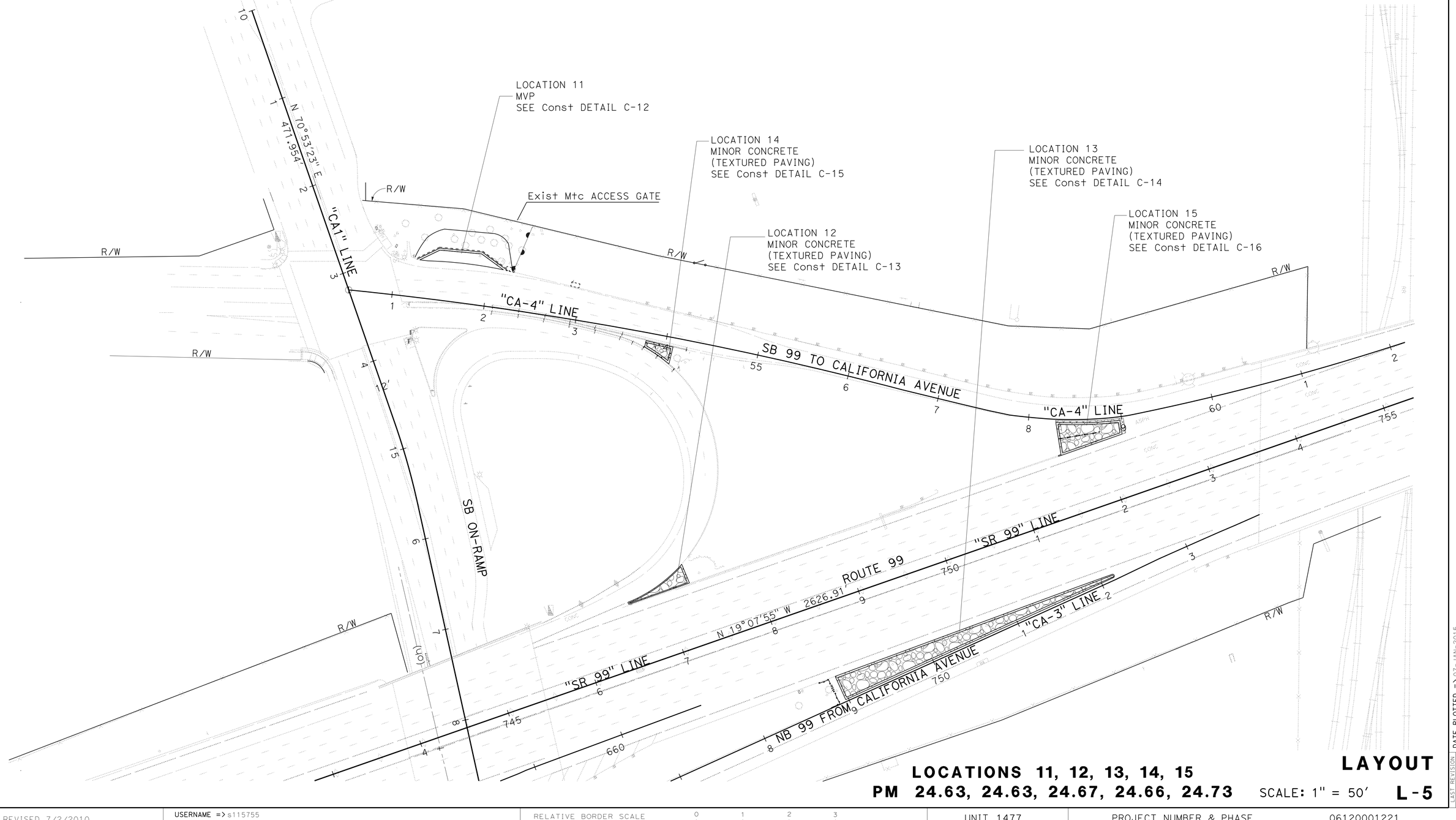
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



LOCATIONS 11, 12, 13, 14, 15
PM 24.63, 24.63, 24.67, 24.66, 24.73

LAYOUT
SCALE: 1" = 50' **L-5**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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DESIGN

FUNCTIONAL SUPERVISOR: SCOTT FRIESEN

CALCULATED-DESIGNED BY: RANDY BOWLES
CHECKED BY: SCOTT FRIESEN

REVISED BY	DATE REVISED

LAST REVISION
DATE PLOTTED => 07-JAN-2015
TIME PLOTTED => 15:44
12-16-14

BORDER LAST REVISED 7/2/2010

USERNAME => s115755
DGN FILE => 0612000122ea005.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1477

PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	7	66

Scott Friesen 1-5-15
REGISTERED CIVIL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT FRIESEN
No. 57969
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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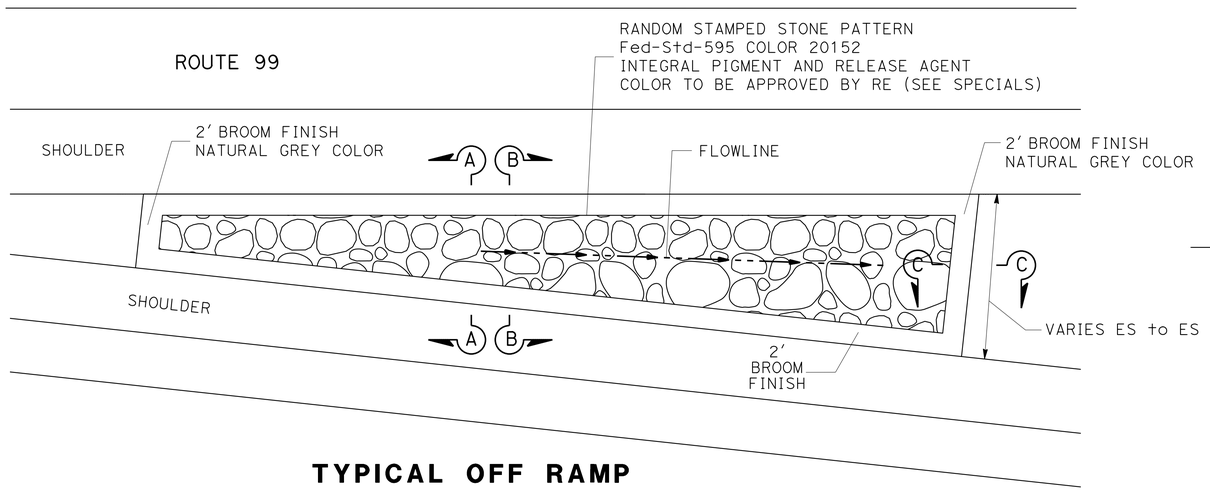
REVISED BY | DATE REVISED
RANDY BOWLES | SCOTT FRIESEN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: SCOTT FRIESEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

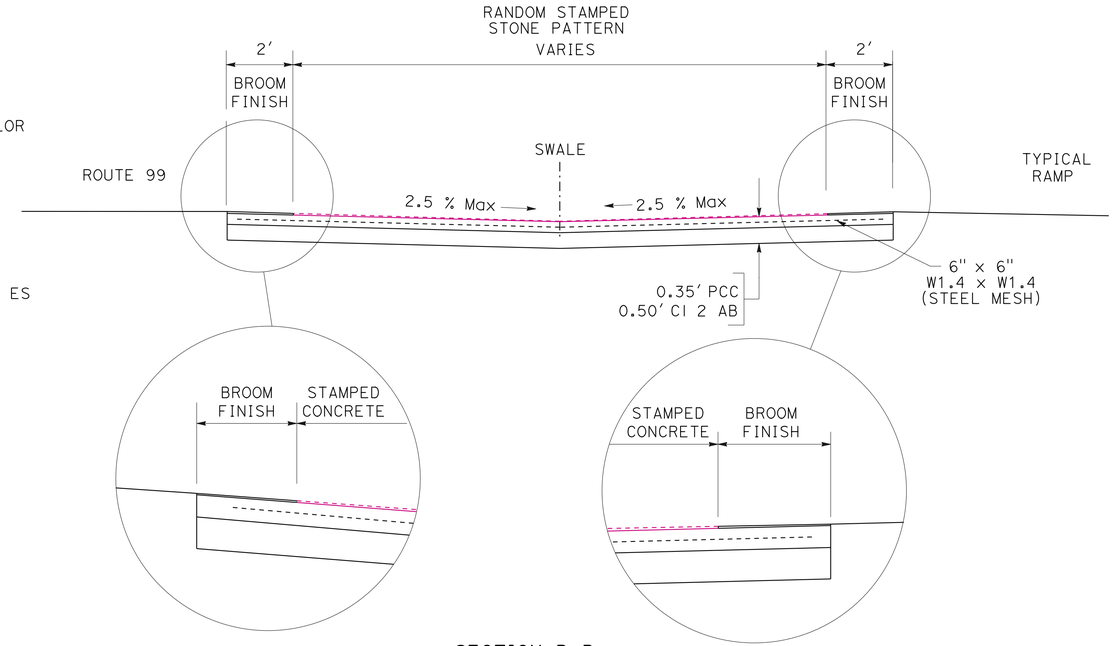
NOTES:

1. RANDOM STAMPED STONE PATTERN Fed-Std-595 COLOR 20152 INTEGRAL PIGMENT AND RELEASE AGENT COLOR TO BE APPROVED BY RE FOR MINOR CONCRETE (TEXTURED PAVING) USE.
2. MAINTAIN Exist DRAINAGE FLOWLINES UNLESS NOTED OTHERWISE.
3. PROTECT Exist PULL BOXES IN PLACE UNLESS NOTED OTHERWISE.

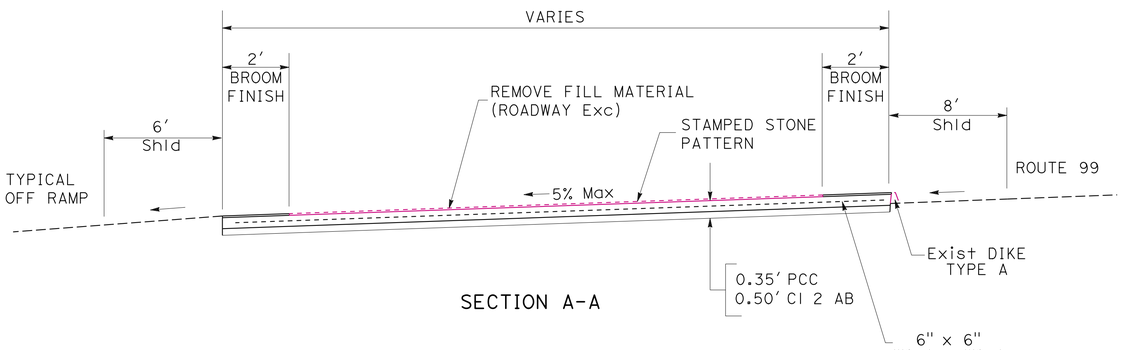


TYPICAL OFF RAMP

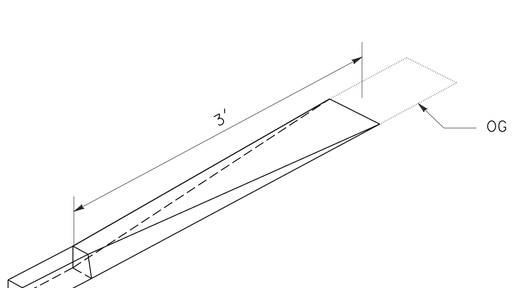
PLAN



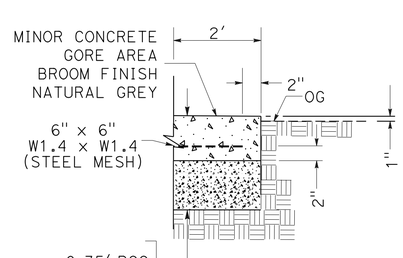
SECTION B-B



SECTION A-A



HMA DIKE TRANSITION
(TYPE A) DIKE TO OG



SECTION C-C

PLAN

RANDOM STAMPED STONE PATTERN

ROUTE 99 RAMP GORE AREAS
MINOR CONCRETE (TEXTURED PAVING)

CONSTRUCTION DETAILS

NO SCALE

C-1

LAST REVISION | DATE PLOTTED => 07-JAN-2015
12-16-14 | TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010 | USERNAME => s115755 | DGN FILE => 0612000122ga001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1477 | PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	8	66

Scott Friesen 1-5-15
REGISTERED CIVIL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT FRIESEN
No. 57969
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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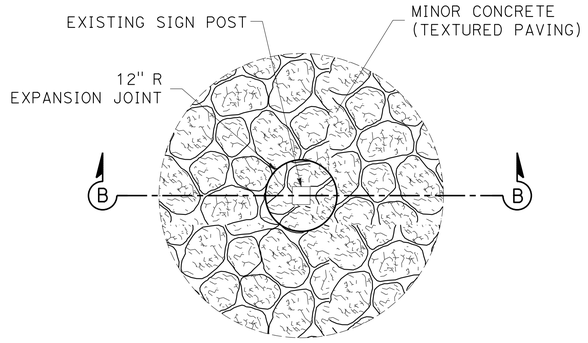
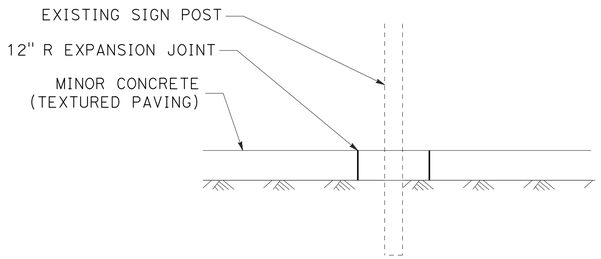
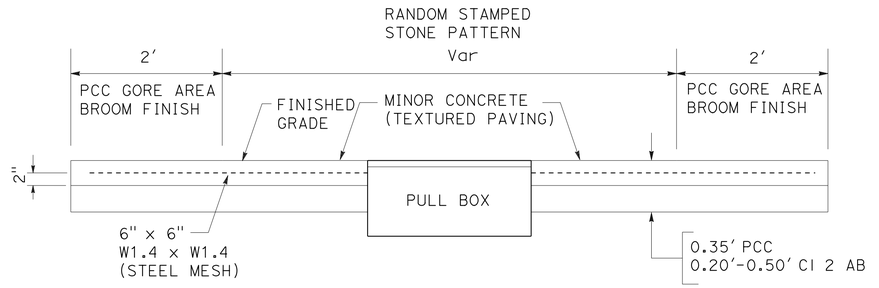


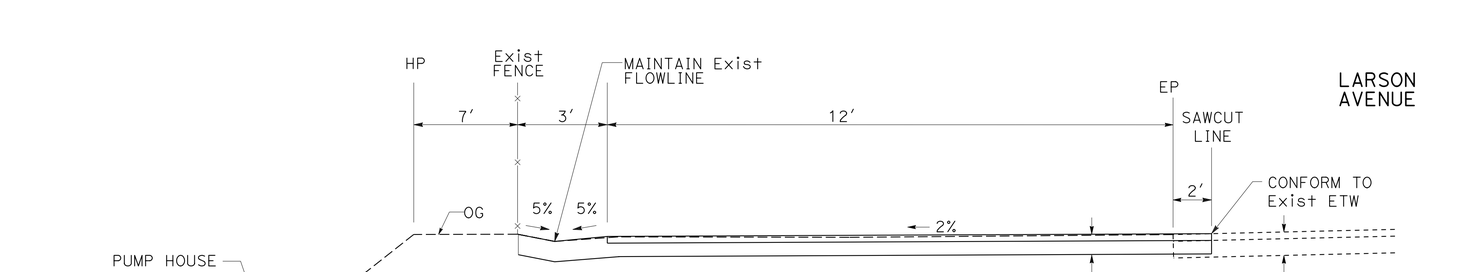
SIGN POST EXPANSION JOINT PLAN



SIGN POST EXPANSION JOINT
SECTION B-B



PULL BOX IN PCC PAVED GORE WITH NO CURB ON DIKE



NB ROUTE 99 PUMP HOUSE AT LARSON ROAD MAINTENANCE VEHICLE PULLOUT

CONSTRUCTION DETAILS (LOCATION 1)

NO SCALE

C-2

REVISED BY | DATE REVISED
RANDY BOWLES | SCOTT FRIESEN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: SCOTT FRIESEN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

LAST REVISION 12-16-14 | DATE PLOTTED => 07-JAN-2015 | TIME PLOTTED => 15:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	9	66

Scott Friesen 1-5-15
REGISTERED CIVIL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT FRIESEN
No. 57969
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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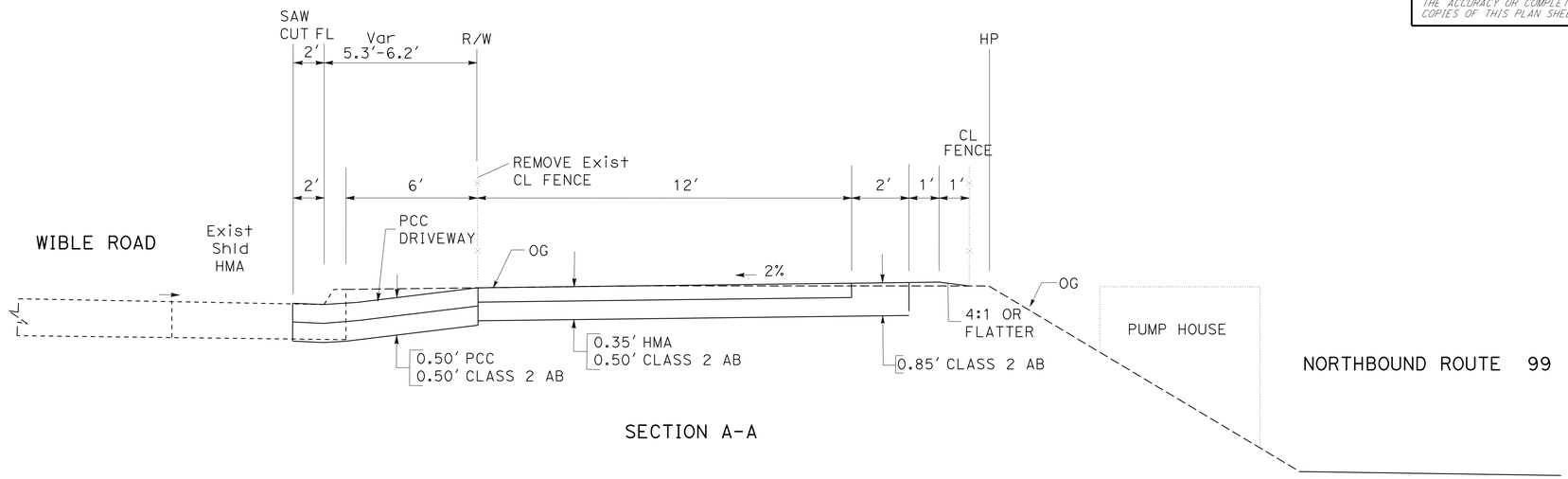
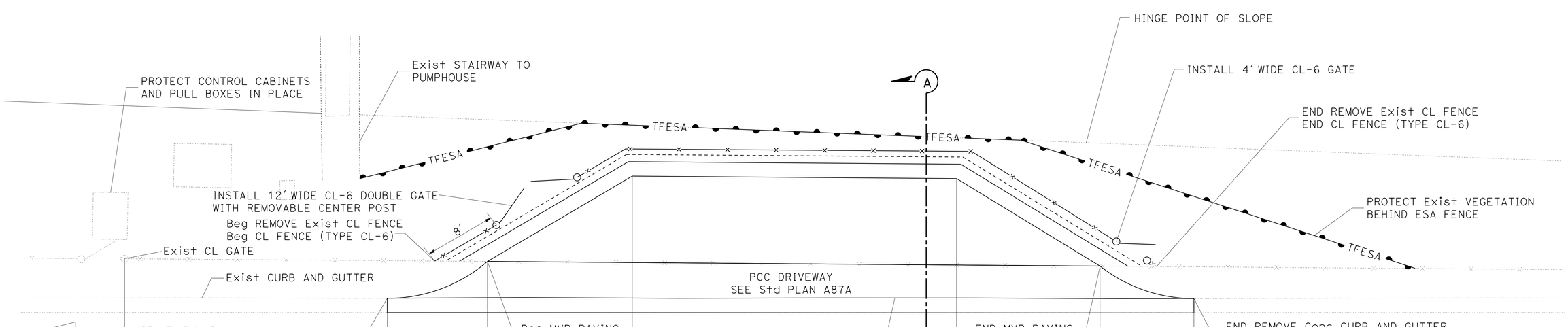
NOTE:

1. PROTECT Exist CABINETS IN PLACE.
2. MAINTAIN ACCESS CONTROL BETWEEN WIBLE ROAD AND SR 99 DURING Const.



SECTION A-A



NB ROUTE 99 PUMP HOUSE AT WIBLE ROAD MAINTENANCE VEHICLE PULLOUT (MVP)

CONSTRUCTION DETAILS (LOCATION 2)

NO SCALE

C-3

REVISED BY	DATE REVISED
RANDY BOWLES	SCOTT FRIESEN

CALCULATED-DESIGNED BY
CHECKED BY
FUNCTIONAL SUPERVISOR: SCOTT FRIESEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

LAST REVISION 12-16-14
DATE PLOTTED => 07-JAN-2015
TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010
USERNAME => s115755
DGN FILE => 06120000122ga003.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1477
PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	10	66

Scott Friesen 1-5-15
REGISTERED CIVIL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT FRIESEN
No. 57969
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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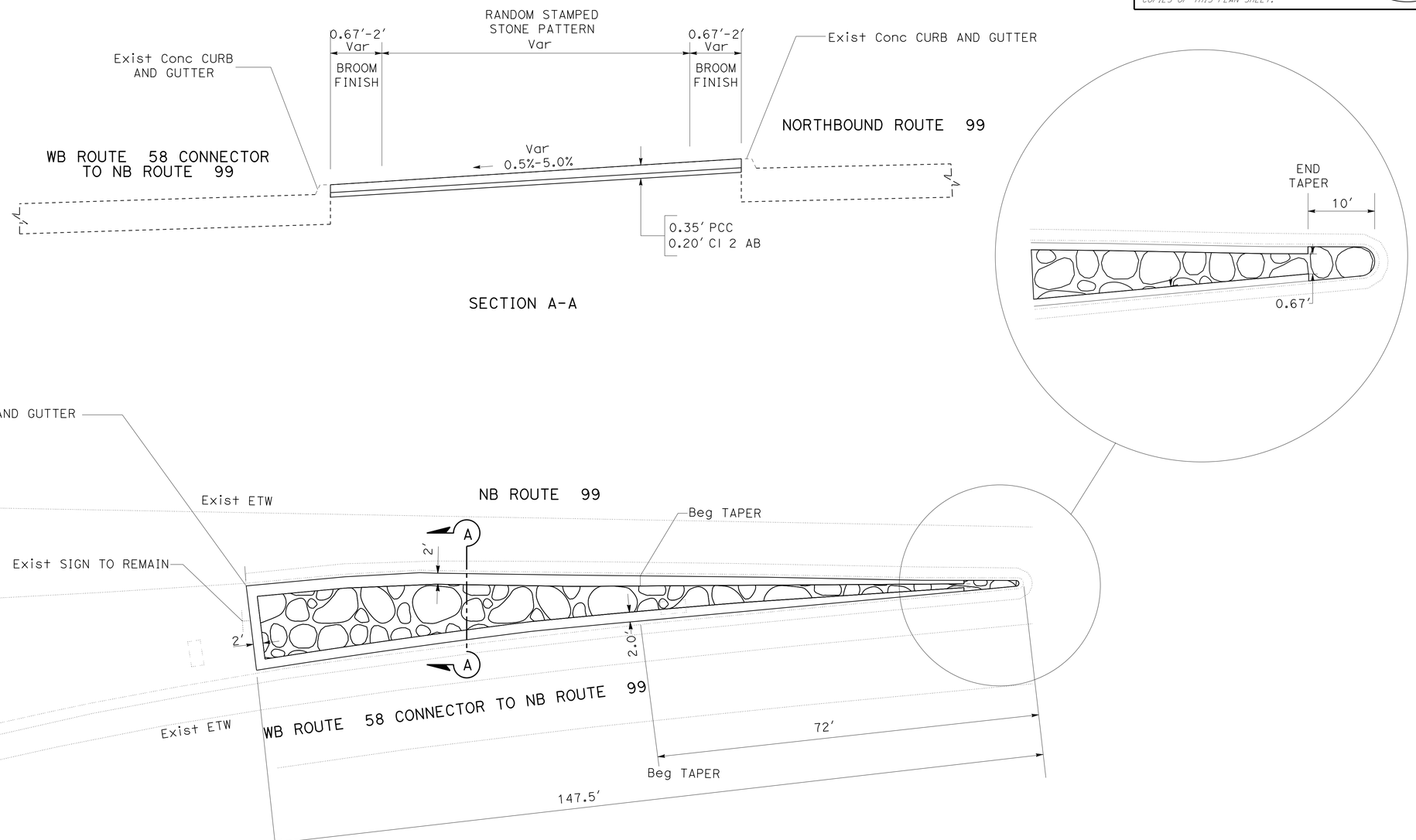

WB ROUTE 58 CONNECTOR TO NB ROUTE 99
MINOR CONCRETE (TEXTURED PAVING)

CONSTRUCTION DETAILS (LOCATION 3)

NO SCALE

C-4

CALCULATED-DESIGNED BY	RANDY BOWLES		
CHECKED BY	SCOTT FRIESEN		
FUNCTIONAL SUPERVISOR	SCOTT FRIESEN		
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN		

LAST REVISION: DATE PLOTTED => 07-JAN-2015
12-16-14 TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010 | USERNAME => s115755 | DGN FILE => 0612000122ga004.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1477 | PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	11	66

Scott Friesen 1-5-15
REGISTERED CIVIL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT FRIESEN
No. 57969
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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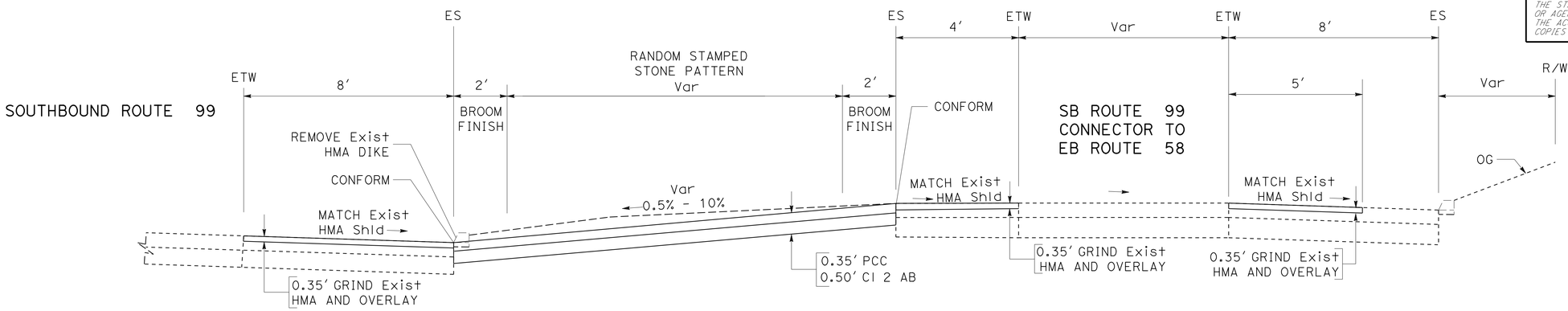
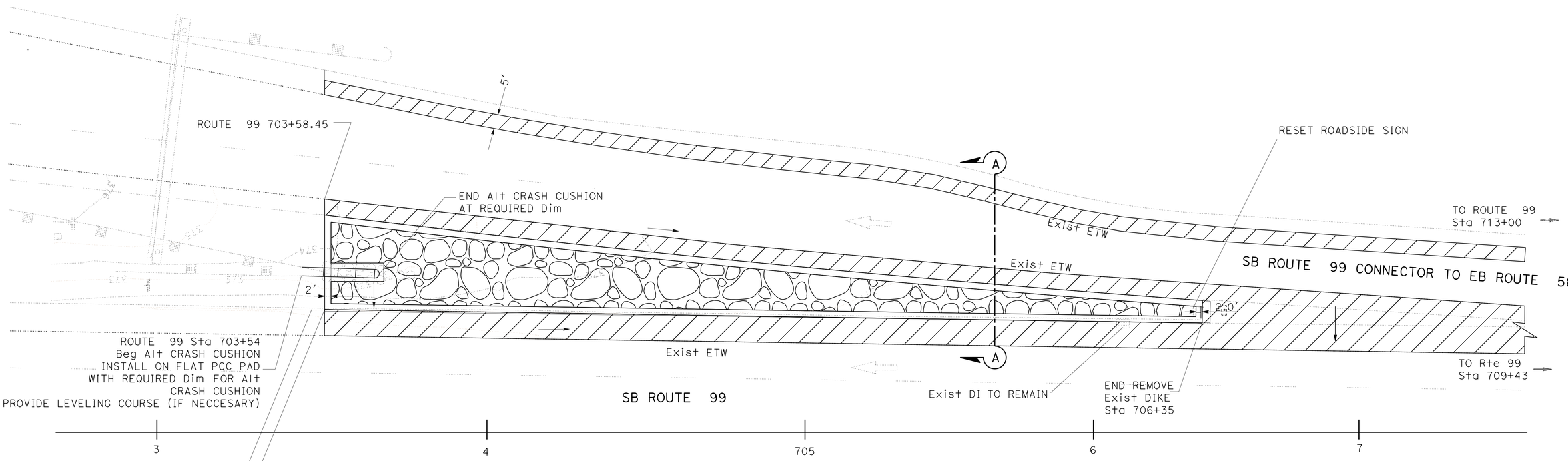


SECTION A-A



SB ROUTE 99 CONNECTOR TO EB ROUTE 58
MINOR CONCRETE (TEXTURED PAVING)

CONSTRUCTION DETAILS (LOCATION 4)

NO SCALE

C-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
FUNCTIONAL SUPERVISOR: SCOTT FRIESEN
CALCULATED-DESIGNED BY
CHECKED BY
RANDY BOWLES
SCOTT FRIESEN
REVISED BY
DATE REVISED

LAST REVISION: DATE PLOTTED => 07-JAN-2015
12-16-14 TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010
USERNAME => s115755
DGN FILE => 0612000122ga005.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1477
PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	12	66

Scott Friesen 1-5-15
REGISTERED CIVIL ENGINEER DATE

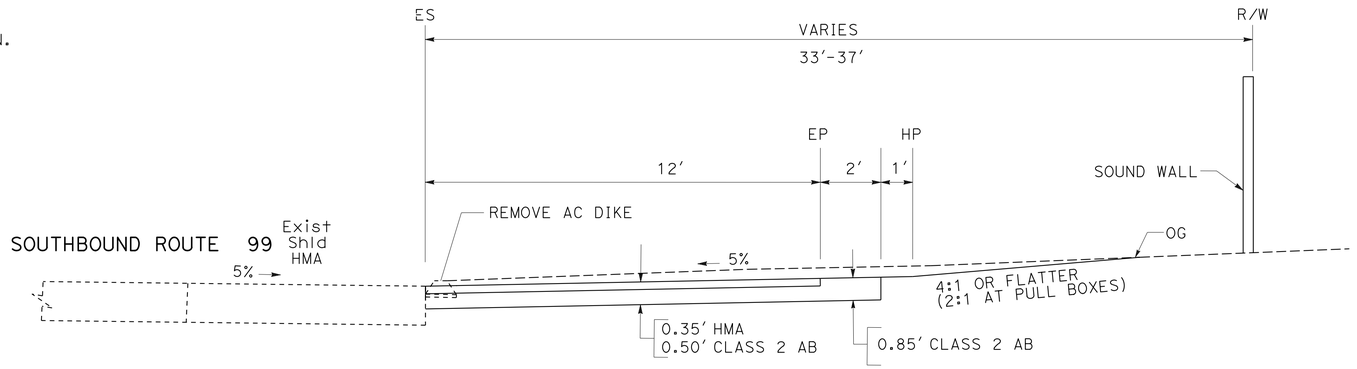
1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT FRIESEN
No. 57969
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

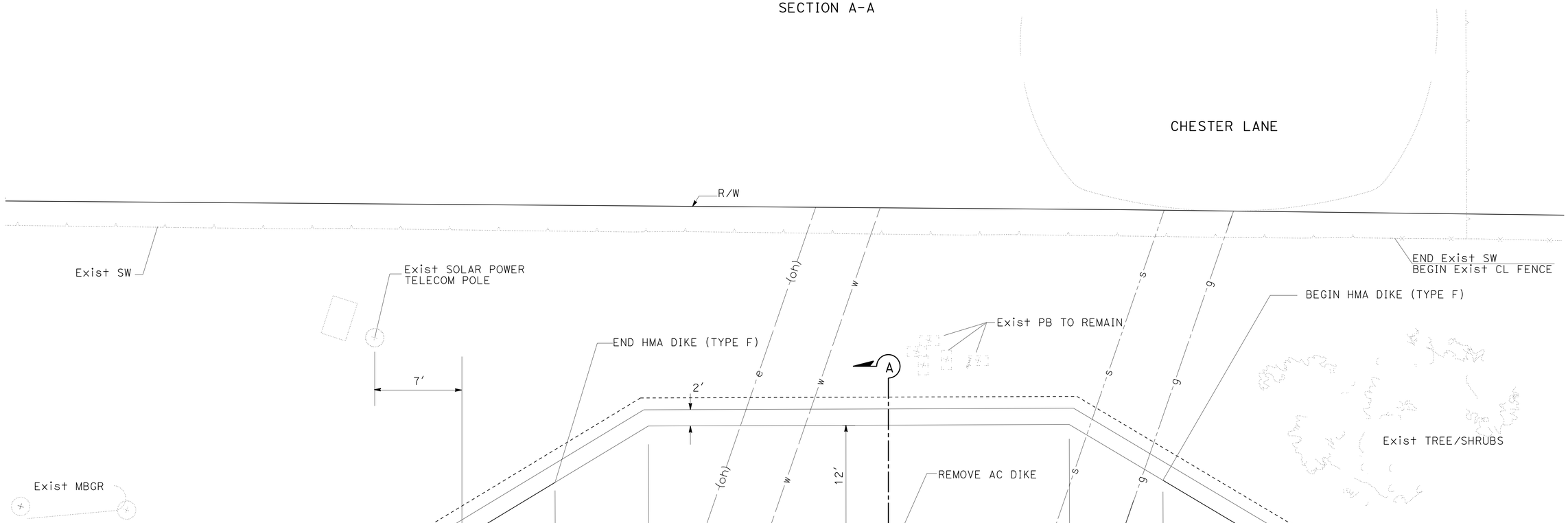
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. CONTRACTOR TO POTHOLE AND LOCATE UTILITIES PRIOR TO EXCAVATION.



SECTION A-A



SB ROUTE 99 SOUTH OF CALIFORNIA Ave AT CHESTER LANE MAINTENANCE VEHICLE PULLOUT (MVP)

CONSTRUCTION DETAILS (LOCATION 5)

NO SCALE **C-6**

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: RANDY BOWLES
CHECKED BY: SCOTT FRIESEN
FUNCTIONAL SUPERVISOR: SCOTT FRIESEN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

LAST REVISION 12-16-14
DATE PLOTTED => 07-JAN-2015
TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010
USERNAME => s115755
DGN FILE => 0612000122ga006.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1477
PROJECT NUMBER & PHASE 06120001221

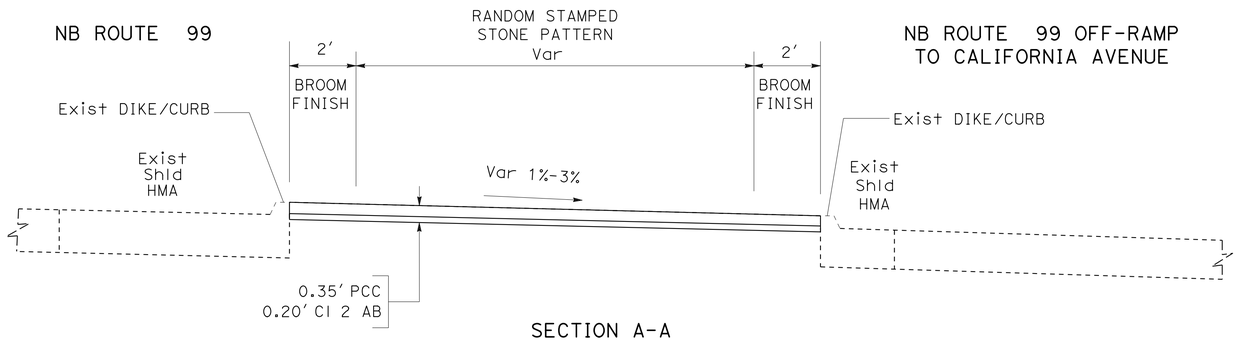
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	13	66

Scott Friesen 1-5-15
REGISTERED CIVIL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

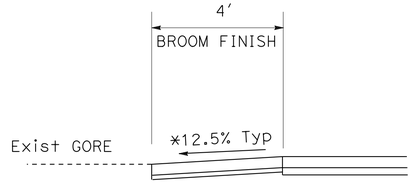
REGISTERED PROFESSIONAL ENGINEER
SCOTT FRIESEN
No. 57969
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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.



SECTION A-A

NB ROUTE 99 OFF-RAMP
TO CALIFORNIA AVENUE



SECTION B-B

*MATCH Exist CURB Elev
ON ROUTE 99 AND OFF RAMP

NORTHBOUND ROUTE 99
CALIFORNIA OFF-RAMP GORE PAVING
MINOR CONCRETE (TEXTURED PAVING)

CONSTRUCTION DETAILS (LOCATION 6)

NO SCALE

C-7

REVISED BY | DATE REVISED
RANDY BOWLES | 12-16-14
CALCULATED-DESIGNED BY | SCOTT FRIESEN
CHECKED BY | FUNCTIONAL SUPERVISOR | SCOTT FRIESEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

LAST REVISION | DATE PLOTTED => 07-JAN-2015
12-16-14 | TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010

USERNAME => s115755
DGN FILE => 0612000122ga007.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1477

PROJECT NUMBER & PHASE 06120001221

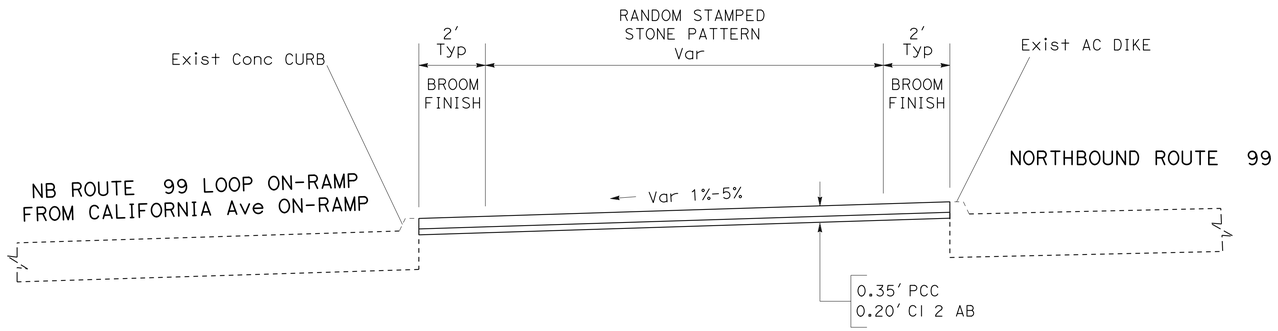
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	14	66

Scott Friesen 1-5-15
REGISTERED CIVIL ENGINEER DATE

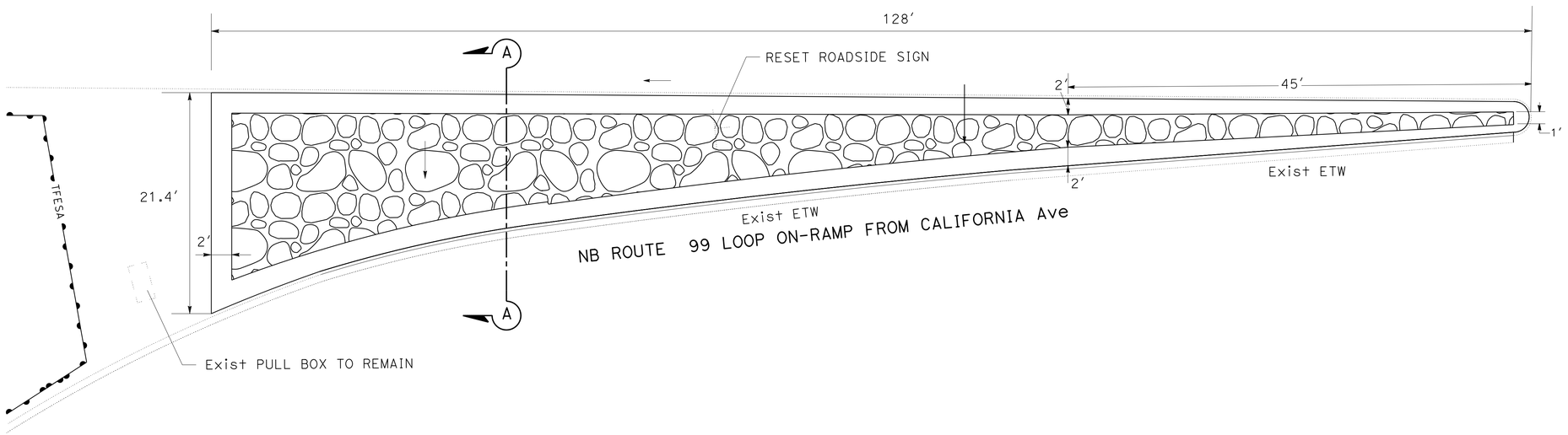
1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT FRIESEN
No. 57969
Exp. 6-30-16
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.



SECTION A-A



NB ROUTE 99 LOOP ON-RAMP FROM CALIFORNIA Ave
MINOR CONCRETE (TEXTURED PAVING)

CONSTRUCTION DETAILS (LOCATION 7)

NO SCALE

C-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
FUNCTIONAL SUPERVISOR: SCOTT FRIESEN
CALCULATED-DESIGNED BY: RANDY BOWLES
CHECKED BY: SCOTT FRIESEN
REVISED BY
DATE REVISED

LAST REVISION: DATE PLOTTED => 07-JAN-2015
12-16-14 TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010
USERNAME => s115755
DGN FILE => 0612000122ga008.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1477
PROJECT NUMBER & PHASE 06120001221

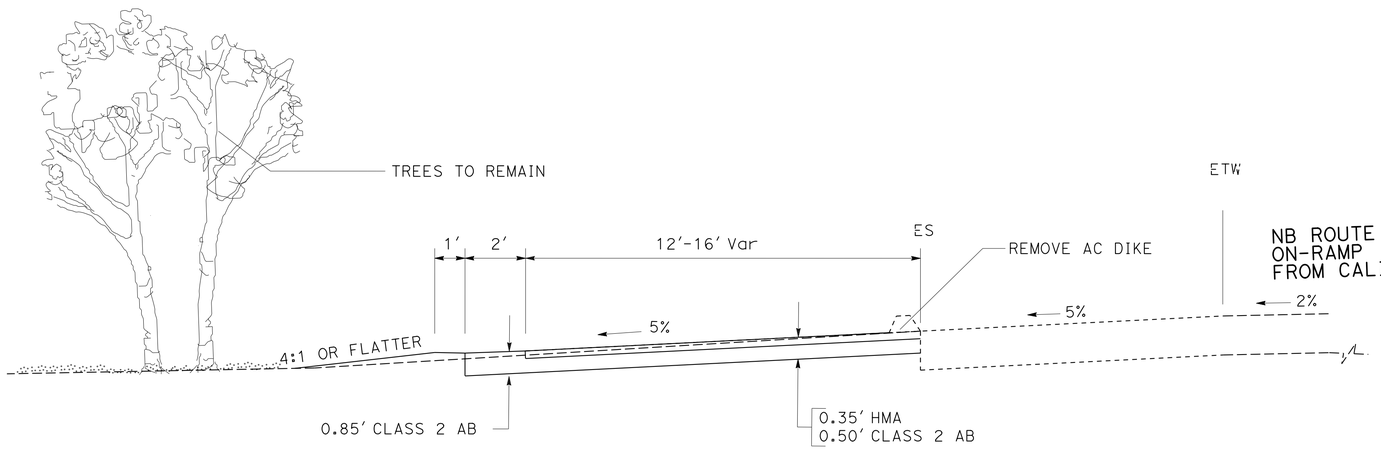
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	15	66

Scott Friesen 1-5-15
REGISTERED CIVIL ENGINEER DATE

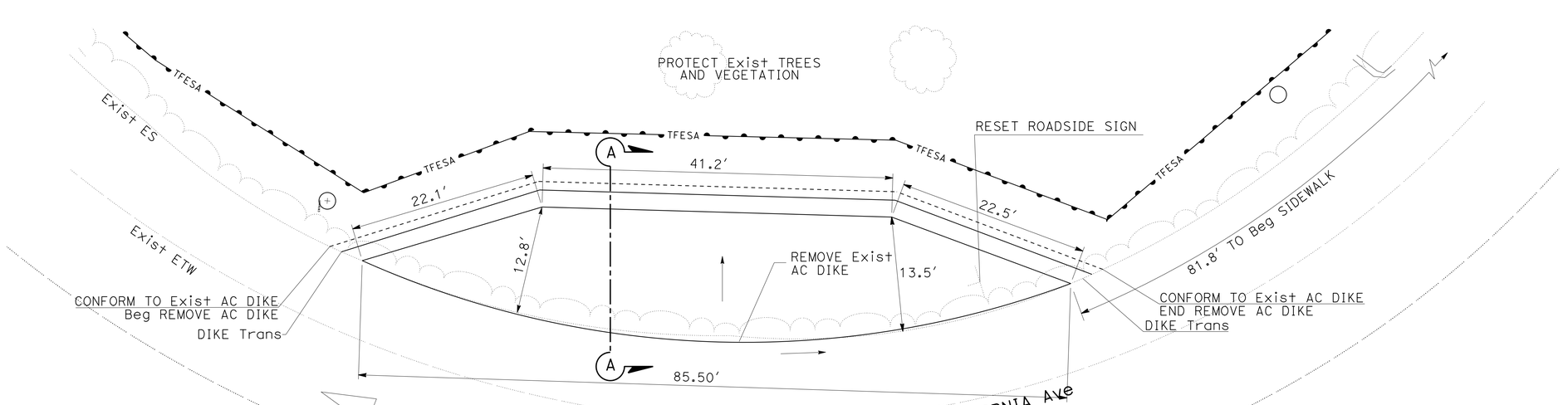
1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT FRIESEN
No. 57969
Exp. 6-30-16
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.



SECTION A-A



NB ROUTE 99 LOOP ON-RAMP FROM WB CALIFORNIA Ave MAINTENANCE VEHICLE PULLOUT (MVP)

CONSTRUCTION DETAILS (LOCATION 8)

NO SCALE

C-9

CALCULATED-DESIGNED BY	RANDY BOWLES	
CHECKED BY	SCOTT FRIESEN	
FUNCTIONAL SUPERVISOR	SCOTT FRIESEN	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN	

REVISED BY	DATE REVISED

LAST REVISION 12-16-14
DATE PLOTTED => 07-JAN-2015
TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010
USERNAME => s115755
DGN FILE => 0612000122ga009.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1477
PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	16	66

Scott Friesen 1-5-15
REGISTERED CIVIL ENGINEER DATE

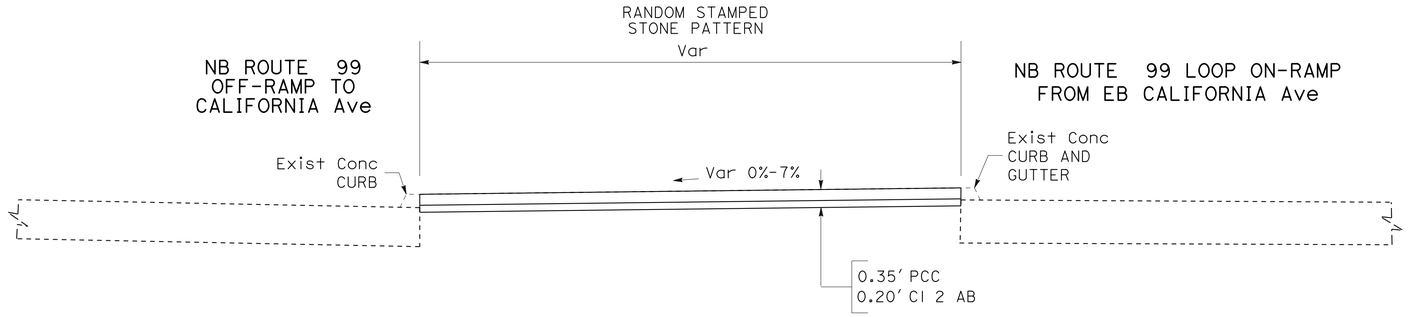
1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT FRIESEN
No. 57969
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

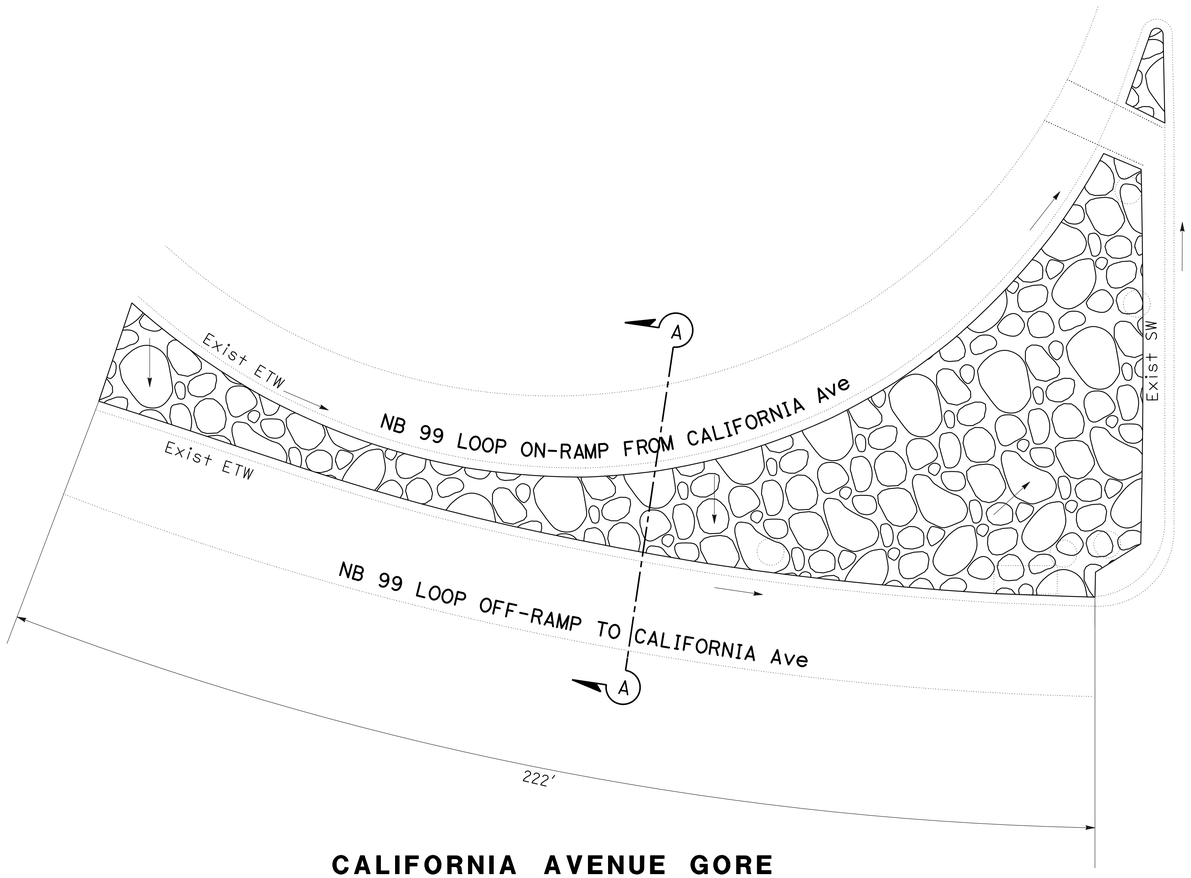
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

RESET ROADSIDE SIGNS IN PLACE
TRAFFIC SIGNAL PB TO REMAIN



SECTION A-A



CALIFORNIA AVENUE GORE
BETWEEN NORTHBOUND ROUTE 99 RAMPS
MINOR CONCRETE (TEXTURED PAVING)

CONSTRUCTION DETAILS (LOCATION 9)

NO SCALE

C-10

REVISED BY	DATE REVISED
RANDY BOWLES	
SCOTT FRIESEN	

CALCULATED-DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR
SCOTT FRIESEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

LAST REVISION
DATE PLOTTED => 07-JAN-2015
TIME PLOTTED => 15:45
12-16-14

BORDER LAST REVISED 7/2/2010

USERNAME => s115755
DGN FILE => 0612000122ga010.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1477

PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	17	66

Scott Friesen 1-5-15
REGISTERED CIVIL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT FRIESEN
No. 57969
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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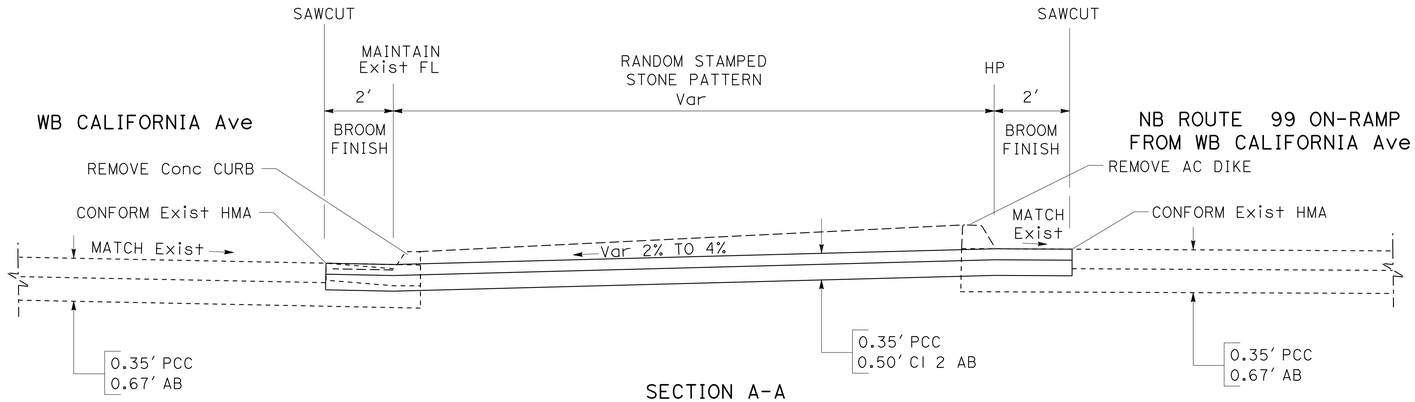
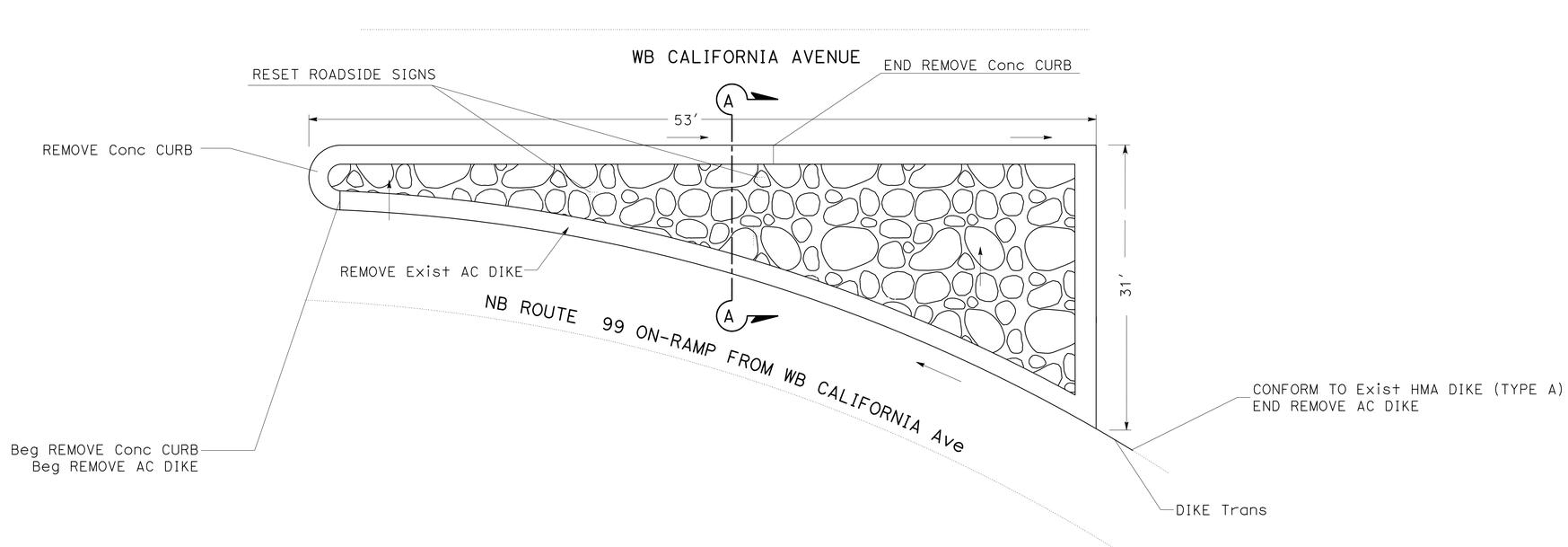


SECTION A-A



NB ROUTE 99 ON-RAMP FROM WB CALIFORNIA Ave
MINOR CONCRETE (TEXTURED PAVING)

CONSTRUCTION DETAILS (LOCATION 10)

NO SCALE

C-11

REVISED BY | DATE REVISED
RANDY BOWLES | SCOTT FRIESEN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: SCOTT FRIESEN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

LAST REVISION 01-02-15 | DATE PLOTTED => 10-MAR-2015 | TIME PLOTTED => 14:54

BORDER LAST REVISED 7/2/2010 | USERNAME => s115755 | DGN FILE => 0612000122ga011.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1477 | PROJECT NUMBER & PHASE 06120001221

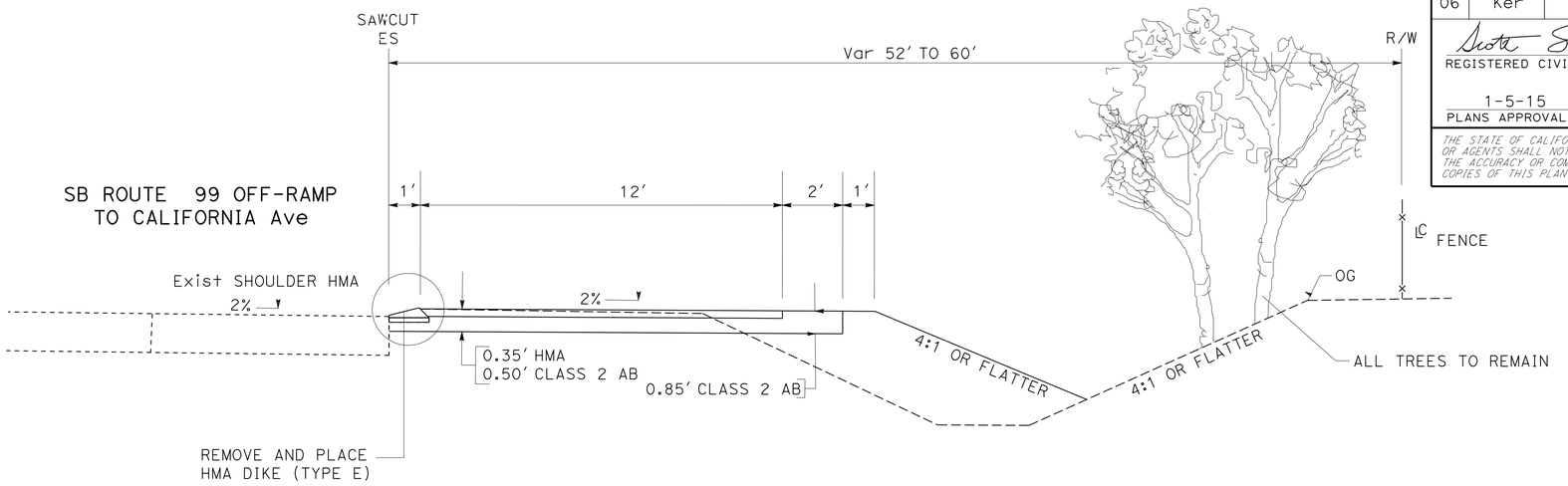
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	18	66

Scott Friesen 1-5-15
REGISTERED CIVIL ENGINEER DATE

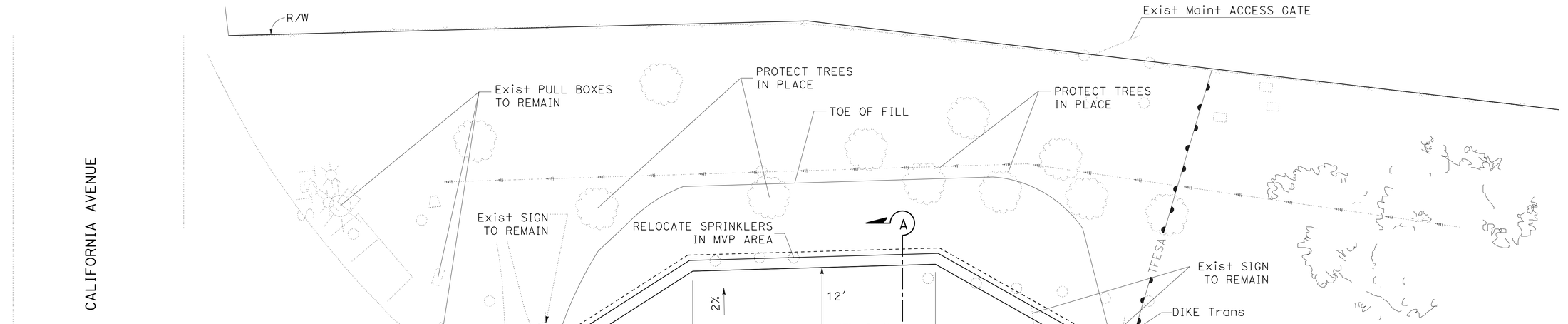
1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT FRIESEN
No. 57969
Exp. 6-30-16
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.



SECTION A-A



SB ROUTE 99 OFF-RAMP TO CALIFORNIA AVE
MAINTENANCE VEHICLE PULLOUT (MVP)

CONSTRUCTION DETAILS (LOCATION 11)

NO SCALE

C-12

REVISED BY	RANDY BOWLES	CALCULATED-DESIGNED BY
DATE REVISED	SCOTT FRIESEN	CHECKED BY

FUNCTIONAL SUPERVISOR: SCOTT FRIESEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

LAST REVISION DATE PLOTTED => 07-JAN-2015
TIME PLOTTED => 15:45
12-16-14

BORDER LAST REVISED 7/2/2010

USERNAME => s115755
DGN FILE => 0612000122ga012.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1477

PROJECT NUMBER & PHASE 06120001221

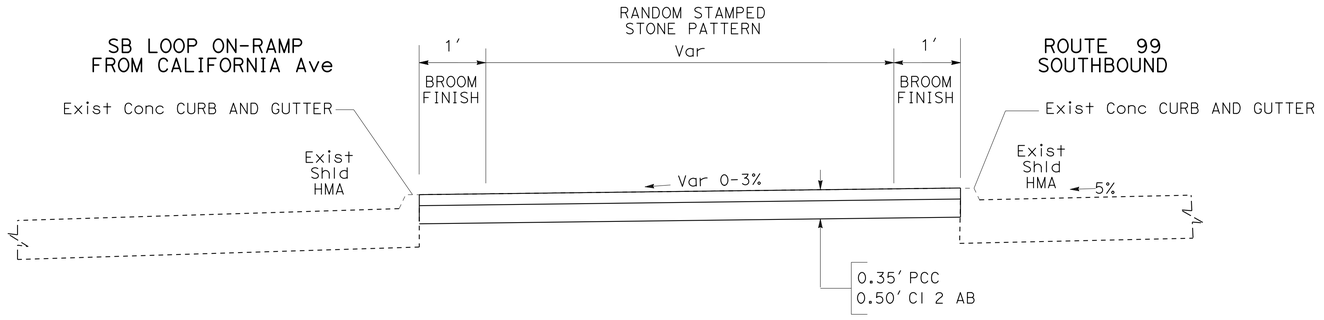
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	19	66

Scott Friesen 1-5-15
REGISTERED CIVIL ENGINEER DATE

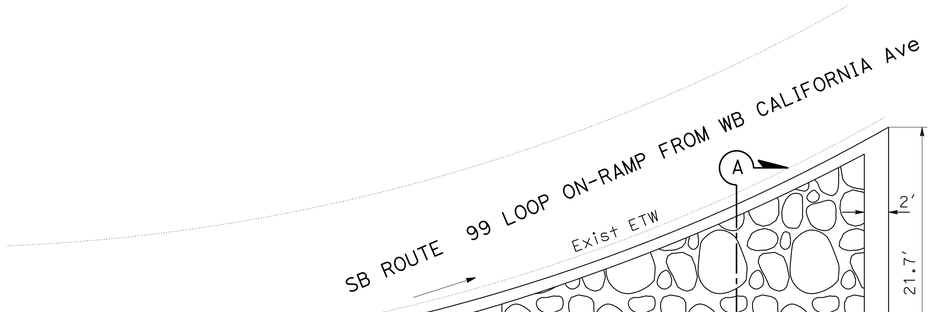
1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT FRIESEN
No. 57969
Exp. 6-30-16
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.



SECTION A-A



SB ROUTE 99 LOOP ON-RAMP FROM WB CALIFORNIA Ave MINOR CONCRETE (TEXTURED PAVING)

CONSTRUCTION DETAILS (LOCATION 12) C-13

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
FUNCTIONAL SUPERVISOR: SCOTT FRIESEN
CALCULATED-DESIGNED BY: RANDY BOWLES
CHECKED BY: SCOTT FRIESEN
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 07-JAN-2015
TIME PLOTTED => 15:45

BORDER LAST REVISED 7/2/2010
USERNAME => s115755
DGN FILE => 0612000122ga013.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1477
PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	20	66

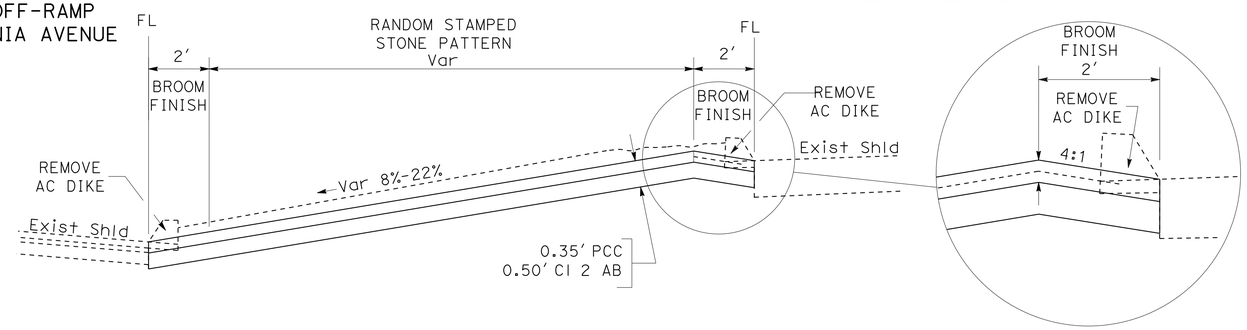
Scott Friesen 1-5-15
REGISTERED CIVIL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT FRIESEN
No. 57969
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

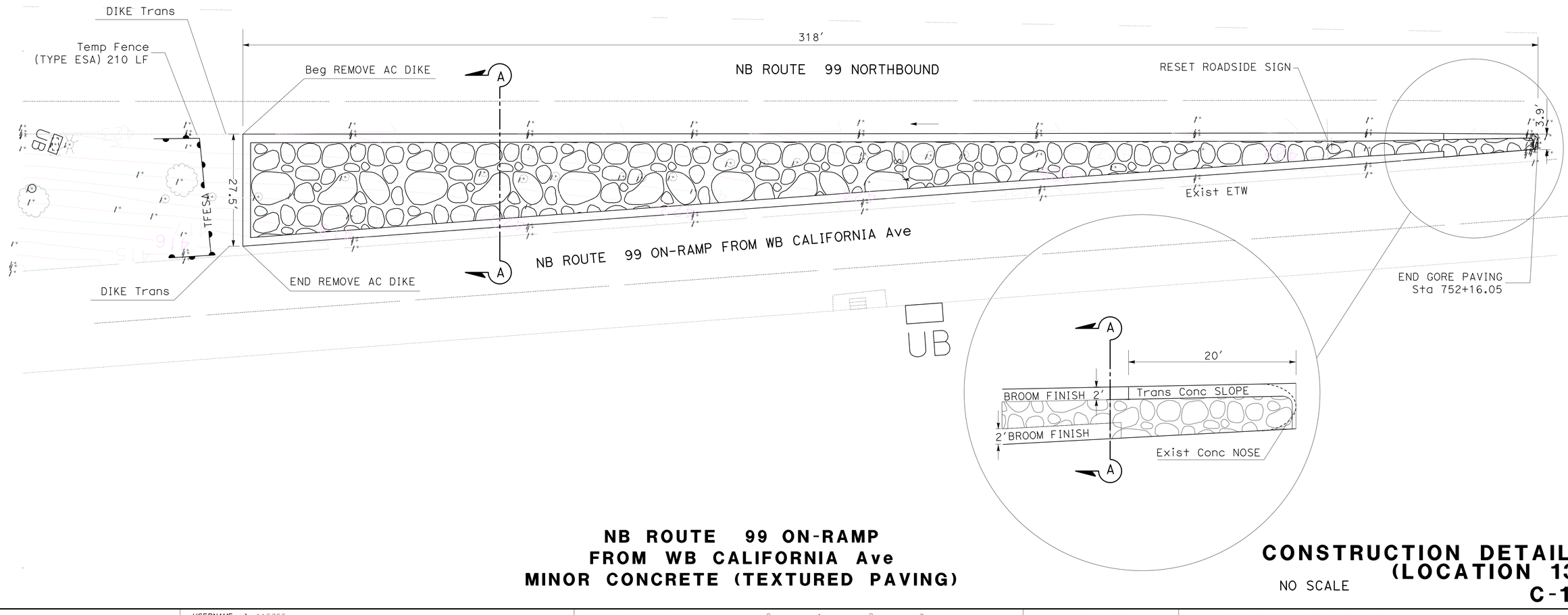
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NB ROUTE 99 OFF-RAMP
FROM WB CALIFORNIA AVENUE



NB ROUTE 99

SECTION A-A



NB ROUTE 99 ON-RAMP
FROM WB CALIFORNIA Ave
MINOR CONCRETE (TEXTURED PAVING)

CONSTRUCTION DETAILS (LOCATION 13)

NO SCALE

C-14

REVISED BY	DATE REVISED
RANDY BOWLES	
SCOTT FRIESEN	

CALCULATED-
DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR
SCOTT FRIESEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

LAST REVISION | DATE PLOTTED => 07-JAN-2015
12-16-14 | TIME PLOTTED => 15:45

BORDER LAST REVISED 7/2/2010

USERNAME => s115755
DGN FILE => 0612000122ga014.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1477

PROJECT NUMBER & PHASE 06120001221

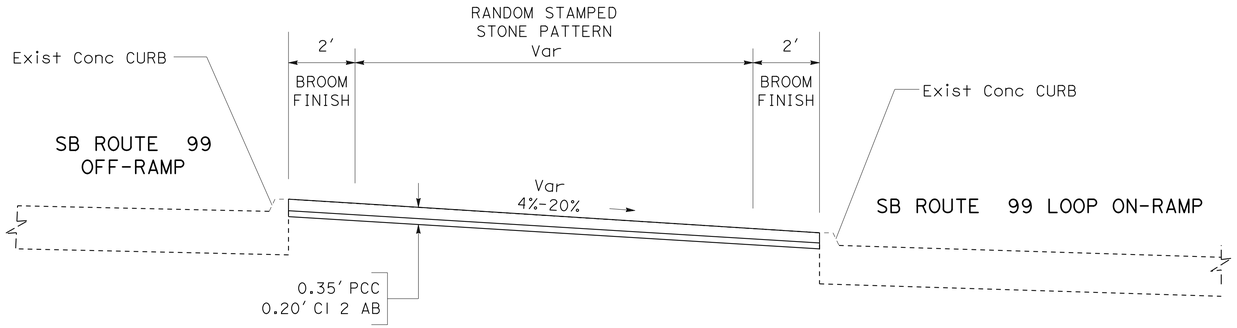
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	21	66

Scott Friesen 1-5-15
REGISTERED CIVIL ENGINEER DATE

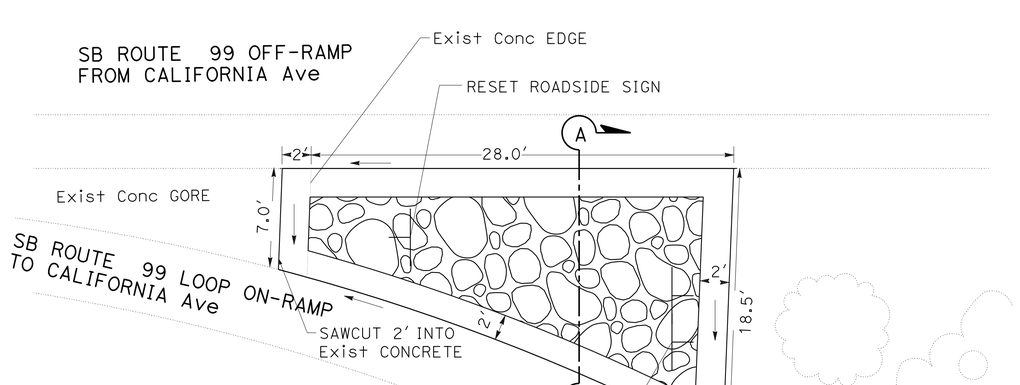
1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT FRIESEN
No. 57969
Exp. 6-30-16
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.



SECTION A-A



CALIFORNIA AVENUE GORE BETWEEN SB ROUTE 99 RAMPS MINOR CONCRETE (TEXTURED PAVING)

CONSTRUCTION DETAILS (LOCATION 14)

NO SCALE

C-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
FUNCTIONAL SUPERVISOR: SCOTT FRIESEN
CALCULATED-DESIGNED BY: RANDY BOWLES
CHECKED BY: SCOTT FRIESEN
REVISED BY
DATE REVISED

LAST REVISION 12-16-14
DATE PLOTTED => 07-JAN-2015
TIME PLOTTED => 15:45

BORDER LAST REVISED 7/2/2010
USERNAME => s115755
DGN FILE => 0612000122ga015.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1477
PROJECT NUMBER & PHASE 06120001221

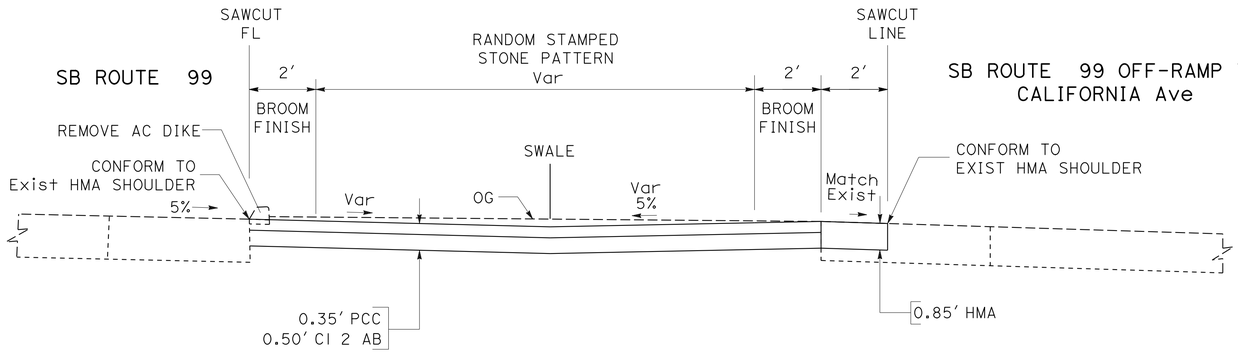
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	22	66

Scott Friesen 1-5-15
REGISTERED CIVIL ENGINEER DATE

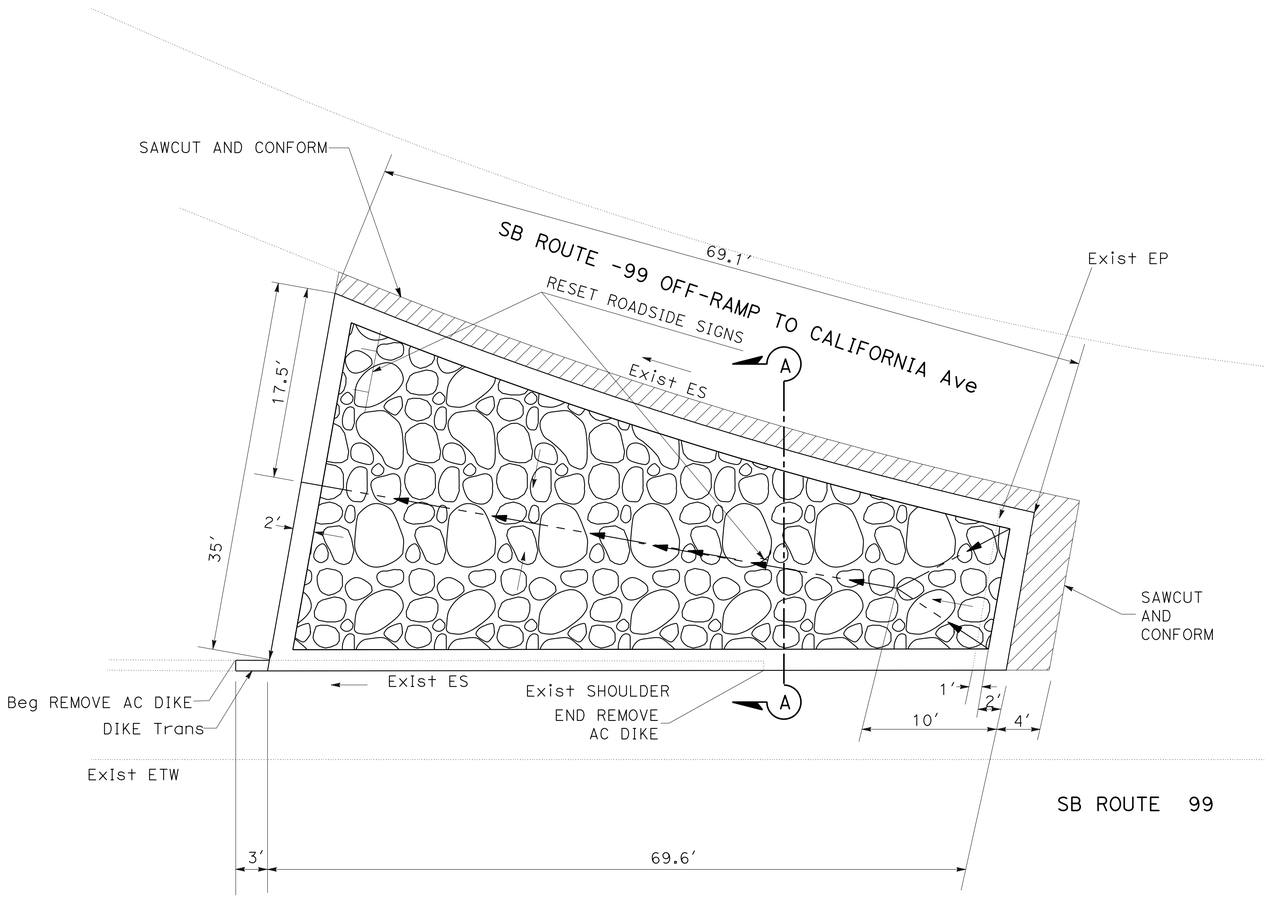
1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT FRIESEN
No. 57969
Exp. 6-30-16
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.



SECTION A-A



SOUTHBOUND ROUTE 99 OFFRAMP TO CALIFORNIA Ave MINOR CONCRETE (TEXTURED PAVING)

CONSTRUCTION DETAILS (LOCATION 15)

NO SCALE

C-16

CALCULATED-DESIGNED BY	RANDY BOWLES	REVISED BY	
CHECKED BY	SCOTT FRIESEN	DATE REVISED	
FUNCTIONAL SUPERVISOR	SCOTT FRIESEN		
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN		

LAST REVISION 12-16-14 | DATE PLOTTED => 07-JAN-2015 | TIME PLOTTED => 15:45

BORDER LAST REVISED 7/2/2010 | USERNAME => s115755 | DGN FILE => 0612000122ga016.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1477 | PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	23	66

Scott Friesen 1-5-15
REGISTERED CIVIL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT FRIESEN
No. 57969
Exp. 6-30-16
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.

WIBLE ROAD

WIBLE ROAD RETAINING WALL

WB ROUTE 58 CONNECTOR TO NB ROUTE 99

2′ BROOM FINISH

RANDOM STAMPED STONE PATTERN Var

2:1 Typ

REMOVE AND PLACE Exist HMA DIKE

0.35′ PCC
0.20′ Cl 2 AB

SECTION A-A

CONFORM TO Exist HMA DIKE (TYPE A)

PLACE 15 LF Temp FENCE (TYPE ESA) TO PROTECT ICEPLANT ADJACENT TO WORK LOCATION

WB ROUTE 58 CONNECTOR TO NB ROUTE 99

Beg REMOVE AC DIKE
Beg HMA DIKE (TYPE A)

Exist PB

Exist PB

A

A

2′

5%

Exist STREET LIGHT POLE TO REMAIN

TUNNEL EXIT

1′

Exist PB TO REMAIN

RETAINING WALL FOR WIBLE ROAD

WIBLE ROAD

WB ROUTE 58 CONNECTOR TO NB ROUTE 99
MINOR CONCRETE (TEXTURED PAVING)

CONSTRUCTION DETAILS (LOCATION 16)

NO SCALE

C-17

REVISED BY			
DATE REVISED			
RANDY BOWLES	CALCULATED-DESIGNED BY		
SCOTT FRIESEN	CHECKED BY		
FUNCTIONAL SUPERVISOR	SCOTT FRIESEN		
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN		

LAST REVISION 12-16-14
DATE PLOTTED => 07-JAN-2015
TIME PLOTTED => 15:45

BORDER LAST REVISED 7/2/2010
USERNAME => s115755
DGN FILE => 0612000122ga017.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1477
PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	24	66

Hassan Taha 11-06-14
REGISTERED CIVIL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HASSAN M. TAHA
No. 60130
Exp 6/30/16
CIVIL
STATE OF CALIFORNIA

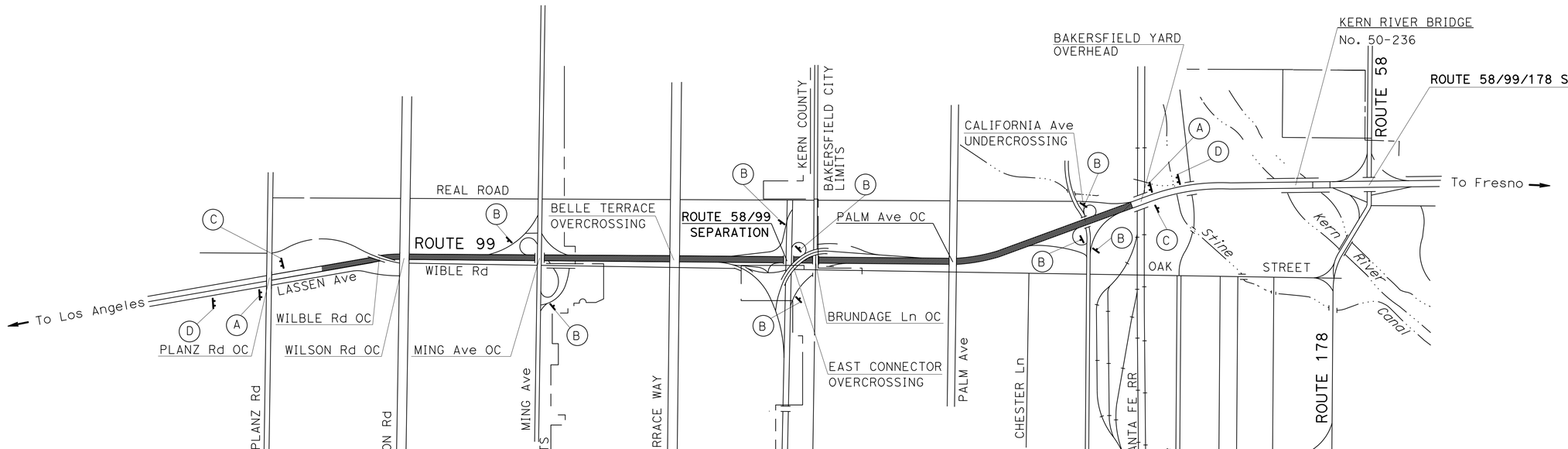
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POSTS	POST SIZE	No. OF SIGNS
A	W20-1	60" x 60"	ROAD WORK AHEAD	2	4" x 6"	2
B	W20-1	36" x 36"	ROAD WORK AHEAD	1	4" x 6"	8
C	C14(CA)	48" x 24"	END ROAD WORK	1	4" x 6"	2
D	C40(CA)	102" x 42"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2	6" x 8"	2

NOTES:

1. LOCATION OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, REFER TO SHEET DE-1 AND DE-2.
3. FOR SIGN "C40" (TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES), ALL LETTERS SHALL BE BLACK ON WHITE BACKGROUND.



APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGN

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
CALCULATED-DESIGNED BY: HASSAN TAHA
CHECKED BY: SANDY LE
REVISED BY / DATE REVISED

LAST REVISION | DATE PLOTTED => 07-JAN-2015
12-17-14 | TIME PLOTTED => 15:45

BORDER LAST REVISED 7/1/2010 | USERNAME => s115755 | DGN FILE => 06120001221a001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1513 | PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	25	66

Hassan Taha 1-5-15
REGISTERED CIVIL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

HASSAN M. TAHA No. 60130 Exp 6/30/16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — 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.

DETOUR:

(1) CLOSURE No. 1 - SB SR 99 TO EB SR 58 - DETOUR 1

(2) CLOSURE No. 2 - WB SR 58 TO NB 99 - DETOUR 2

A — 58 G28-1(CA)(58); EAST M3-2; DETOUR M4-10(L†)

D — END DETOUR M4-8a

E — RAMP CLOSED SC6-4(CA)

F — 58 G28-1(CA)(58); EAST M3-2; RAMP CLOSED AHEAD W20-3 (ALTERNATE)

I — DETOUR AHEAD W20-2

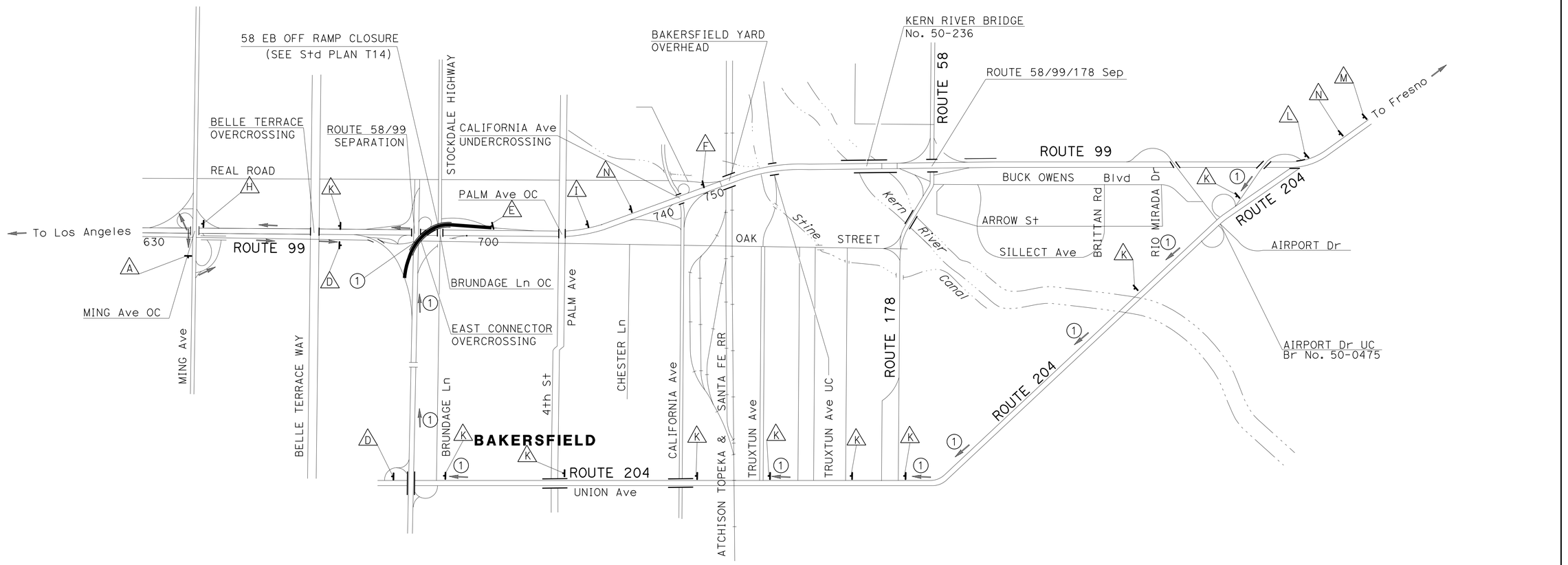
H — DETOUR M4-8; USE NEXT EXIT C38 (CA)

L — 58 G28-1(CA)(58); EAST M3-2; DETOUR M4-10(R†)

M — 58 G28-1(CA)(58); EAST M3-2; RAMP CLOSED AHEAD W20-3 (ALTERNATE) (SPECIAL)

N — ROUTE 58 EB OFF RAMP CLOSED AHEAD USE DETOUR

K — 58 G28-1(CA)(58); EAST M3-2; DETOUR SC3(CA)



1-FOR ADDITIONAL CONSTRUCTION AREA SIGNS, REFER TO SHEET CS-1.

APPROVED FOR DETOUR WORK ONLY

DETOUR LAYOUT
(58 EAST BOUND OFF RAMP CLOSURE)
DE-1

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

CALCULATED-DESIGNED BY: HASSAN TAHA
CHECKED BY: GURMIT GILL

REVISED BY / DATE REVISED

LAST REVISION DATE PLOTTED => 07-JAN-2015
TIME PLOTTED => 15:45
12-17-14

BORDER LAST REVISED 7/2/2010

USERNAME => s115755
DGN FILE => 0612000122mg001.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1513

PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	26	66

Hassan Taha 1-5-15
REGISTERED CIVIL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HASSAN M. TAHA
No. 60130
Exp 6/30/16
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.

D END DETOUR M4-8a

E RAMP CLOSED SC6-4(CA)

DETOUR M4-8

H USE NEXT EXIT C38 (CA)

I DETOUR AHEAD W20-2

O 99 58 G28-1(CA)(99,58)
WEST M3-4
RAMP CLOSED AHEAD W20-3 (ALTERNATE)
(SPECIAL)

P ROUTE 99, 58 WB OFF RAMP CLOSED AHEAD USE DETOUR

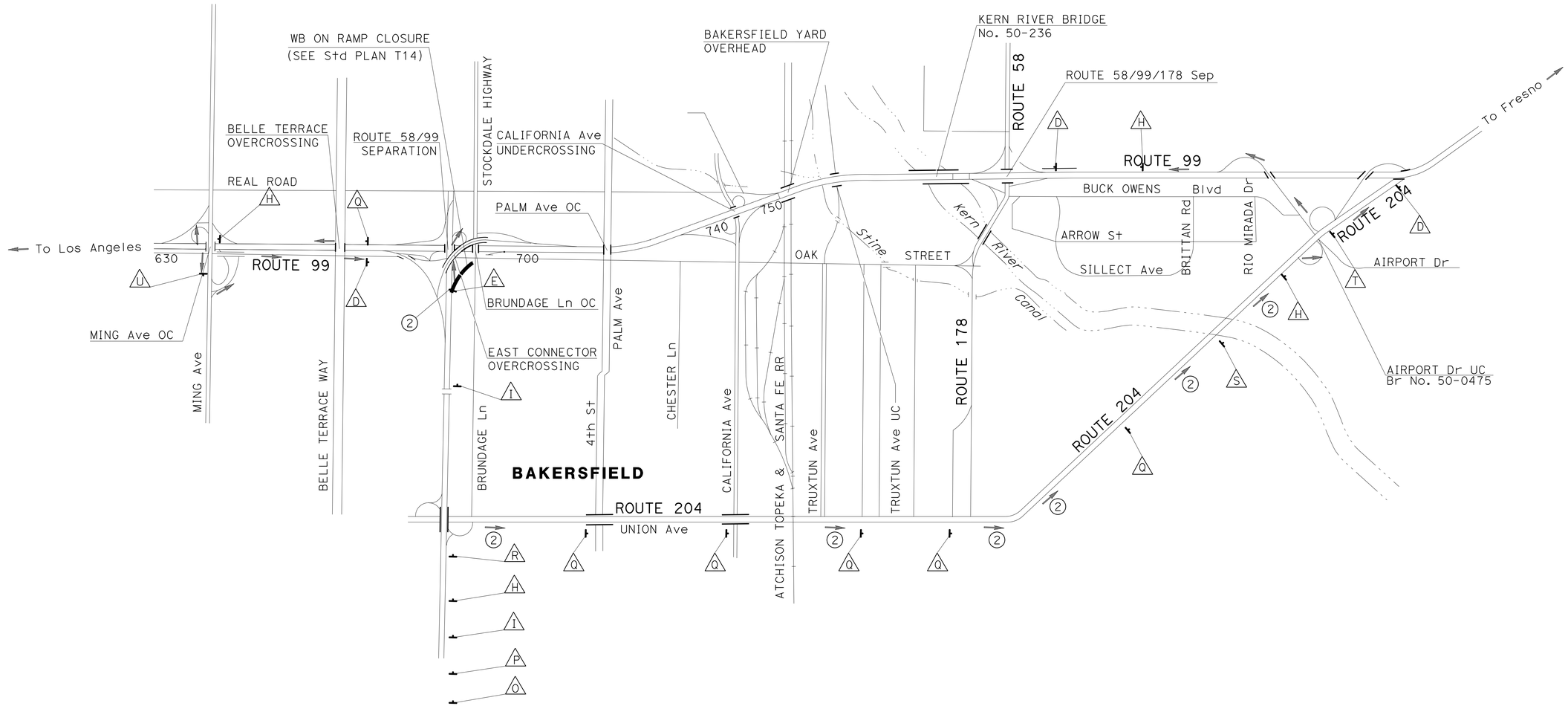
Q 99 58 G28-1(CA)(99,58)
WEST M3-4
DETOUR SC3(CA)

R 99 58 G28-1(CA)(99,58)
WEST M3-4
DETOUR M4-10(R†)
(SPECIAL)

S ROUTE 58 WEST USE OFF RAMP AIRPORT DRIVE

T 99 G28-1(CA)(99)
NORTH M3-1
DETOUR SC3(CA)

U 99 58 G28-1(CA)(99,58)
WEST M3-4
DETOUR M4-10(L†)



1-FOR ADDITIONAL CONSTRUCTION AREA SIGNS, REFER TO SHEET CS-1.

APPROVED FOR DETOUR WORK ONLY

DETOUR PLAN

(58 WEST BOUND ON RAMP CLOSURE)

NO SCALE **DE-2**

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: GURMIT GILL
CHECKED BY: HASSAN TAHA
FUNCTIONAL SUPERVISOR: MOHAMMED OATAMI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

LAST REVISION DATE PLOTTED => 07-JAN-2015
TIME PLOTTED => 15:45
12-17-14

BORDER LAST REVISED 7/2/2010 | USERNAME => s115755 | DGN FILE => 0612000122mg002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1513 | PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	27	66

Hassan Taha 11-06-14
REGISTERED CIVIL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HASSAN M. TAHA
No. 60130
Exp 6/30/16
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.

CONSTRUCTION AREA SIGNS
(TRAFFIC HANDLING, PORTABLE)

SIGN NO (X)	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	PANEL SIZE	SIGN MESSAGE	NO. OF SIGNS
A		G28-1(CA)	30" X 24"	CA ROUTE MARKER (58)	1
	M3-2		26" x 12"	EAST	
	M4-10(Lt)		48" x 18"	DETOUR (ARROW LEFT)	
D	M4-8a		24" x 18"	END DETOUR	5
E		SC6-4(CA)	48" x 60"	RAMP CLOSED XX-XX THRU XX-XX	2
F		G28-1(CA)	30" X 24"	CA ROUTE MARKER (58)	1
	M3-2		26" x 12"	EAST	
	W20-3 (A1t)		48" x 48"	RAMP CLOSED AHEAD	
H	M4-8a		24" x 12"	DETOUR	5
		C38(CA)	48" x 36"	USE NEXT EXIT	
I	W20-2		48" x 48"	DETOUR AHEAD	2
L		G28-1(CA)	30" X 24"	CA ROUTE MARKER (58)	1
	M3-2		26" x 12"	EAST	
	M4-10(Rt)		48" x 18"	DETOUR (ARROW RIGHT)	
M		G28-1(CA)	30" X 24"	CA ROUTE MARKER (58)	1
	M3-2		26" x 12"	EAST	
	W20-3		48" x 48"	FREEWAY CLOSED AHEAD	
N	(SPECIAL)		72" X 36"	ROUTE 58 EB CLOSED AHEAD USE DETOUR	2
K		G28-1(CA)	30" X 24"	CA ROUTE MARKER (58)	9
	M3-2		26" x 12"	EAST	
		SC3 (CA)	48" x 18"	DETOUR (ARROW STRAIGHT)	
O		G28-1(CA)	30" X 24"	CA ROUTE MARKER (99,58)	2
	M3-4		26" x 12"	WEST	
	W20-3(A1t)		48" x 48"	RAMP CLOSED AHEAD	
P	(SPECIAL)		72" X 36"	ROUTE 99, 58 WB OFF RAMP CLOSED AHEAD USE DETOUR	1
Q		G28-1(CA)	30" X 24"	CA ROUTE MARKER (99,58)	6
	M3-4		26" x 12"	WEST	
		SC3 (CA)	48" x 18"	DETOUR (ARROW STRAIGHT)	
R		G28-1(CA)	30" X 24"	CA ROUTE MARKER (99,58)	1
	M3-4		26" x 12"	WEST	
	M4-10(Rt)		48" x 18"	DETOUR (ARROW RIGHT)	
S	(SPECIAL)		72" X 36"	ROUTE 58 WEST USE OFF RAMP AIRPORT DR.	1
T		G28-1(CA)	30" X 24"	CA ROUTE MARKER (99)	1
	M3-1		26" x 12"	NORTH	
		SC3 (CA)	48" x 18"	DETOUR (ARROW STRAIGHT)	
U		G28-1(CA)	30" X 24"	CA ROUTE MARKER (99,58)	1
	M3-4		26" x 12"	WEST	
	M4-10(Lt)		48" x 18"	DETOUR (ARROW LEFT)	

(SPECIAL)

(N) ROUTE 58 EB OFF RAMP CLOSED AHEAD USE DETOUR

5" CAPS BLACK/ORANGE
84" x 48"

(SPECIAL)

(P) ROUTE 99, 58 WB OFF RAMP CLOSED AHEAD USE DETOUR

5" CAPS BLACK/ORANGE
84" x 48"

(SPECIAL)

(S) ROUTE 58 WEST USE OFF RAMP AIRPORT DRIVE

5" CAPS BLACK/ORANGE
84" x 42"

NOTE: 1-FOR ADDITIONAL CONSTRUCTION AREA SIGNS, REFER TO SHEET CS-1.

DETOUR QUANTITIES

NO SCALE

DEQ-1

REVISED BY | DATE REVISED
GURMIT GILL | HASSAN TAHA
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

LAST REVISION | DATE PLOTTED => 07-JAN-2015
12-17-14 | TIME PLOTTED => 15:45

BORDER LAST REVISED 7/2/2010 | USERNAME => s115755 | DGN FILE => 0612000122mh001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1513 | PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	28	66

Hassan Taha 11-06-14
REGISTERED CIVIL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — HASSAN M. TAHA — No. 60130 — Exp 6/30/16 — 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.

LEGEND:

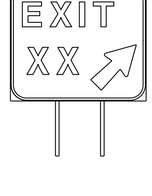
⇦ DIRECTION OF TRAFFIC

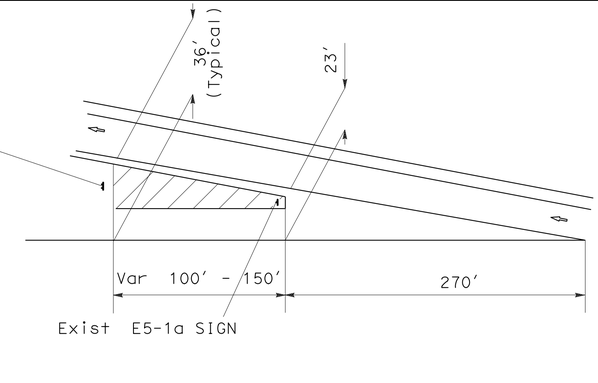
ROADSIDE SIGN QUANTITIES

SHEET No.	LOCATION No.	SIGN CODE	SIGN MESSAGE	No. OF POST AND SIZE	PANEL SIZE	BACKGROUND		LEGEND		GRAFFITI FLOW	FURNISH SINGLE SHEET ALUMINUM SIGN (0.08"-FRAMED) FOR (XI TYPE SHEETING)	RETROREFLECTIVE SHEETING (TYPE XI)	REMOVE ROADSIDE SIGN	RESET ROADSIDE SIGN	MARKER (TYPE K) (CA)	ROADSIDE SIGN - ONE POST	ROADSIDE SIGN - TWO POST	TREATED WOOD WASTE
						SHEETING COLOR	RETROREFLECTIVITY ASTM TYPE	SHEETING COLOR	RETROREFLECTIVITY ASTM TYPE	PREMIUM	SQFT	SQFT	EA	EA	EA	EA	EA	LB
C-2	LOCATION 1	R86(CA(Mod)	OFFICIAL VEHICLE USE ONLY	1- 4 x 4	30 x 42	WHITE	XI	BLACK			8.75					1		
C-5	LOCATION 4	E5-1a	EXIT 24 WITH ARROW										1					100
		E5-1a	EXIT 24 WITH ARROW	2-6 x 6	72 x 60	GREEN	XI	WHITE	XI	X	30.00						1	
C-7	LOCATION 6	E5-1a	EXIT 25 WITH ARROW											1				
C-8	LOCATION 7	W4-1	LANE MERGE											1				
C-9	LOCATION 8	W10-5a	PEDESTRIAN/BICYCLES/MOTOR											1				
C-10	LOCATION 9	R6-1	ONE WAY											1				
		R5-1,R5-1a	DO NOT ENTER/WRONG WAY											1				
		R5-10C	NO PEDS											1	1			
		G92(CA)	FREEWAY ENTRANCE											1				
		R3-1	NO RIGHT TURN											1				
C-11	LOCATION 10	G92(CA)	FREEWAY ENTRANCE											1				
		W13-1P	SPEED LIMIT											1	1			
C-13	LOCATION 12	W4-1	LANE MERGE											1				
C-14	LOCATION 13	W4-1	LANE MERGE											1				
C-15	LOCATION 14	G8(CA)	CALIFORNIA Ave DIRECTIONAL ARROW											1				
C-16	LOCATION 15	E5-1a	EXIT 25 WITH ARROW											1				
		W1-2a	CURVE/40 MPH											1				
										TOTAL	38.75	38.75	1	15	2	1	1	100

PROPOSED E5-1a SIGN

12 LETTERS
18 NUMERALS

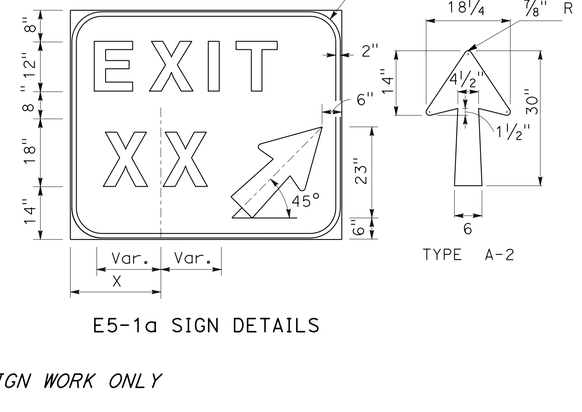




TYPICAL RESET/INSTALLATION DETAIL FOR SIGN E5-1a AT OFF-RAMP GORE AREA

SIGN SPECIFICATIONS						
SIGN NUMBER	BOARD SIZE	No. OF DIGITS	X	ARROW		
				WIDTH	LENGTH	TYPE
E5-1aa	72"x60"	1 OR 2	24	18¼"	30"	A-2
E5-1ab	72"x60"	3*	33	18¼"	30"	A-2
E5-1ac	108"x60"	4*	42	18¼"	30"	A-2

* Reduce spacing 25% between numerals



E5-1a SIGN DETAILS

DELINEATOR

LOCATIION	DELINEATOR (CLASS 1)
	EA
LOCATION 3	3
LOCATION 6	2
LOCATION 7	2
LOCATION 9	6
LOCATION 10	2
LOCATION 12	2
LOCATION 14	2
LOCATION 15	1
LOCATION 16	1
TOTAL	21

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

SIGN DETAILS AND QUANTITIES

NO SCALE

SQ-1

REVISED BY | DATE REVISED
HASSAN TAHA | SANDY LE
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

LAST REVISION | DATE PLOTTED => 10-MAR-2015
12-17-14 | TIME PLOTTED => 15:10

BORDER LAST REVISED 7/1/2010 | USERNAME => s115755 | DGN FILE => 0612000122oc001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1513 | PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	29	66

Scott Friesen 1-5-15
REGISTERED CIVIL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — SCOTT FRIESEN No. 57969 Exp. 6-30-16 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.

MINOR CONCRETE (TEXTURED PAVING)

SHEET No.	LOCATION No.	MINOR CONCRETE (TEXTURED PAVING)	CLASS 2 (AB)	ROADWAY Exc
		CY	CY	CY
C-4	3	17.1	10	27
C-5	4	62.4	89	152
C-7	6	17.6	10	28
C-8	7	15.6	9	24
C-10	9	92.6	53	146
C-11	10	13.6	19	33
C-13	12	8.4	12	20
C-14	13	65.8	94	160
C-15	14	4.9	3	8
C-16	15	22	31	54
C-17	16	3.2	2	5
TOTAL		323.2	* 332	** 657

* INCLUDED IN CLASS 2 AB TABLE
** INCLUDED IN ROADWAY EXCAVATION TABLE

MAINTENANCE VEHICLE PULLOUT

SHEET No.	LOCATION No.	MINOR HMA	CLASS 2 AB	ROADWAY Exc	Emb (N)
		TON	CY	CY	CY
C-2	1	34	24	41	
C-3	2	10	7	12	
C-6	5	25	18	30	
C-9	8	27	19	33	
C-12	11	22	15	26	90
TOTAL		*** 118	* 83	** 142	

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
* INCLUDED IN CLASS 2 AB TABLE
** INCLUDED IN ROADWAY EXCAVATION TABLE
*** INCLUDED IN MINOR HMA TABLE

REMOVE CONCRETE (CURB)

SHEET No.	LOCATION No.	LF
C-3	2	113
C-11	10	34
TOTAL		147

MINOR CONCRETE (DRIVEWAY)

SHEET No.	LOCATION No.	CY
C-3	2	32
C-11	10	
TOTAL		32

MINOR HOT MIX ASPHALT

SHEET No.	LOCATION No.	TONS
C-5	4	351
C-16	15	13
MAINTENANCE VEHICLE PULLOUTS		118
DIKE		5
TOTAL		487

ROADWAY EXCAVATION

DESCRIPTION	CY
MAINTENANCE VEHICLE PULLOUTS	142
MINOR CONCRETE (TEXTURED PAVING)	657
TOTAL	799

CLASS 2 AGGREGATE BASE

DESCRIPTION	CY
MAINTENANCE VEHICLE PULLOUTS	83
MINOR CONCRETE (TEXTURED PAVING)	332
TOTAL	415

IRRIGATION CROSSOVER

LOCATION		SIDE		WELDED STEEL PIPE CONDUIT	CB	OL	(N) WATER LINE CROSSOVER SIZE (INCH)	(N) SPRINKLER CONTROL CROSSOVER SIZE (INCH)
LINE	STATION	L+	R+	SIZE (INCH) / LENGTH (LF)				
"WBC"	697+09	X	X	10 / 143	X	X	3"	2"
TOTAL				143				

(N) - NOT A SEPARATE PAY ITEM FOR INFORMATION ONLY
X - DENOTES REQUIREMENT
CB - COUPLING BAND
OL - OVERLAP

HOT MIX ASPHALT DIKE QUANTITIES

SHEET No.	LOCATION No.	PLACE HMA DIKE (TYPE A)	PLACE HMA DIKE (TYPE E)	PLACE HMA DIKE (TYPE F)	MINOR HMA	REMOVE AC DIKE
		LF	LF	LF	TONS	LF
C-5	4	3			.1	281
C-6	5			28	.4	100
C-9	8	6			.2	86
C-11	10	3			.1	55
C-12	11		97		2.5	97
C-14	13					640
C-16	15	3			.1	53
C-17	16	60			1.6	60
TOTAL		75	97	28	* 5	1372

* INCLUDED IN MINOR HMA TABLE

TEMPORARY DRAINAGE INLET PROTECTION

SHEET No.	LOCATION No.	EA
C-2	1	3
C-3	2	2
C-5	4	1
C-7	6	2
C-11	10	1
C-13	12	1
C-14	13	1
TOTAL		11

TEMPORARY FENCE (TYPE ESA)

SHEET No.	LOCATION No.	LF
C-3	2	144
C-7	6	60
C-8	7	50
C-9	8	145
C-10	9	50
C-12	11	70
C-14	13	50
C-17	16	15
TOTAL		584

ALTERNATIVE CRASH CUSHION SYSTEM

SHEET No.	LOCATION No.	EA
C-5	4	1
TOTAL		1

CHAIN LINK FENCE

SHEET No.	LOCATION No.	(TYPE CL-6)	GATE 4' (TYPE CL-4)	GATE 12' (TYPE CL-12)	REMOVE CL FENCE
		LF	EA	EA	LF
C-3	2	80	1	1	85
TOTAL		80	1	1	85

SUMMARY OF QUANTITIES
Q-1

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
RANDY BOWLES	SCOTT FRIESEN		

FUNCTIONAL SUPERVISOR: RICHARD HELGESON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DESIGN

Caltrans

LAST REVISION | DATE PLOTTED => 12-JAN-2015
01-02-15 | TIME PLOTTED => 14:11

BORDER LAST REVISED 7/2/2010 | USERNAME => s115755 | DGN FILE => 0612000122pa001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1477 | PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	30	66

LICENSED LANDSCAPE ARCHITECT

1-5-15
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 — KEVIN GALLO No. 2578 — Date 12/31/15 — Renewal Date 12/22/14 — STATE OF CALIFORNIA

IRRIGATION SPRINKLER SCHEDULE

SYMBOL	ITEM DESCRIPTION	SPRINKLER TYPE	SPRAY PATTERN	OPERATING PRESSURE (PSI)	PRESSURE COMPENSATING	PLUS/MINUS 5% ② DISCHARGE: GALLONS PER MINUTE (GPM)	PLUS/MINUS 5% ② DISCHARGE: GALLONS PER HOUR (GPH)	RADIUS (F+)	WIDTH x LENGTH (F+)	FLOW SHUTOFF DEVICE	RISER: TYPE	RISER: MATERIAL: PLASTIC	RISER: MATERIAL: GALVANIZED	RISER: DIAMETER (INCH)	RISER: HEIGHT (INCH)	SWING JOINT: TYPE	SWING JOINT: DIAMETER (INCH)	REMARKS
⑦	RISER SPRINKLER ASSEMBLY (GEAR DRIVEN)	GEAR DRIVEN	P	35	X	3.5	-	40	-	-	II	X	-	½	12	I	½	

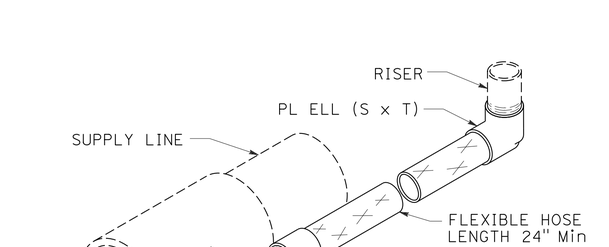
X IN BOX DENOTES REQUIREMENT

APPLICABLE WHEN CIRCLED BELOW:

1 - SEE SPECIAL PROVISIONS.
② - IF A PRESSURE COMPENSATING DEVICE IS SPECIFIED, THE DISCHARGE AND RADII SHOWN REFLECT ITS USE.
3 - ARC STOP FOR IMPACTS SHALL BE FITTED WITH A NUT AND BOLT.
4 - VINYL-COATED CAST IRON HOUSING.
5 - REQUIRED ADJACENT TO SHOULDERS, CURBS, SIDEWALKS, AND DIKES.
6 - UNLESS OTHERWISE SHOWN ON PLANS.
7 - LOCATE SPRINKLERS 3' FROM EDGE OF ROOTBALL ON OPPOSITE SIDES OF PLANT.

LATERAL SUPPLY SIDE PIPE SIZING CHART

No. OF HEADS BY TYPE: RISER SPRINKLER ASSEMBLY (GEAR DRIVEN)	PIPE SIZE (INCH)
1-2	¾
3	1
4-8	1½
9-14	2
15-21	2½



ISOMETRIC

SWING JOINT TYPE I

IRRIGATION SPRINKLER SCHEDULE
ISS-1

KEVIN GALLO — DESIGNED BY
DAVID MARTIN — CALCULATED-
CHECKED BY
REVISED BY
DATE REVISED
BRAD COLE — SENIOR LANDSCAPE ARCHITECT
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® LANDSCAPE ARCHITECTURE

LAST REVISION — DATE PLOTTED => 07-JAN-2015 — TIME PLOTTED => 15:45
12-22-14

BORDER LAST REVISED 7/2/2010 | USERNAME => s115755 | DGN FILE => 0612000122sm001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1501 | PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	31	66

LICENSED LANDSCAPE ARCHITECT

1-5-15
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — KEVIN GALLO No. 2978 — 12/31/15 Renewal Date — 12/22/14 Date — STATE OF CALIFORNIA

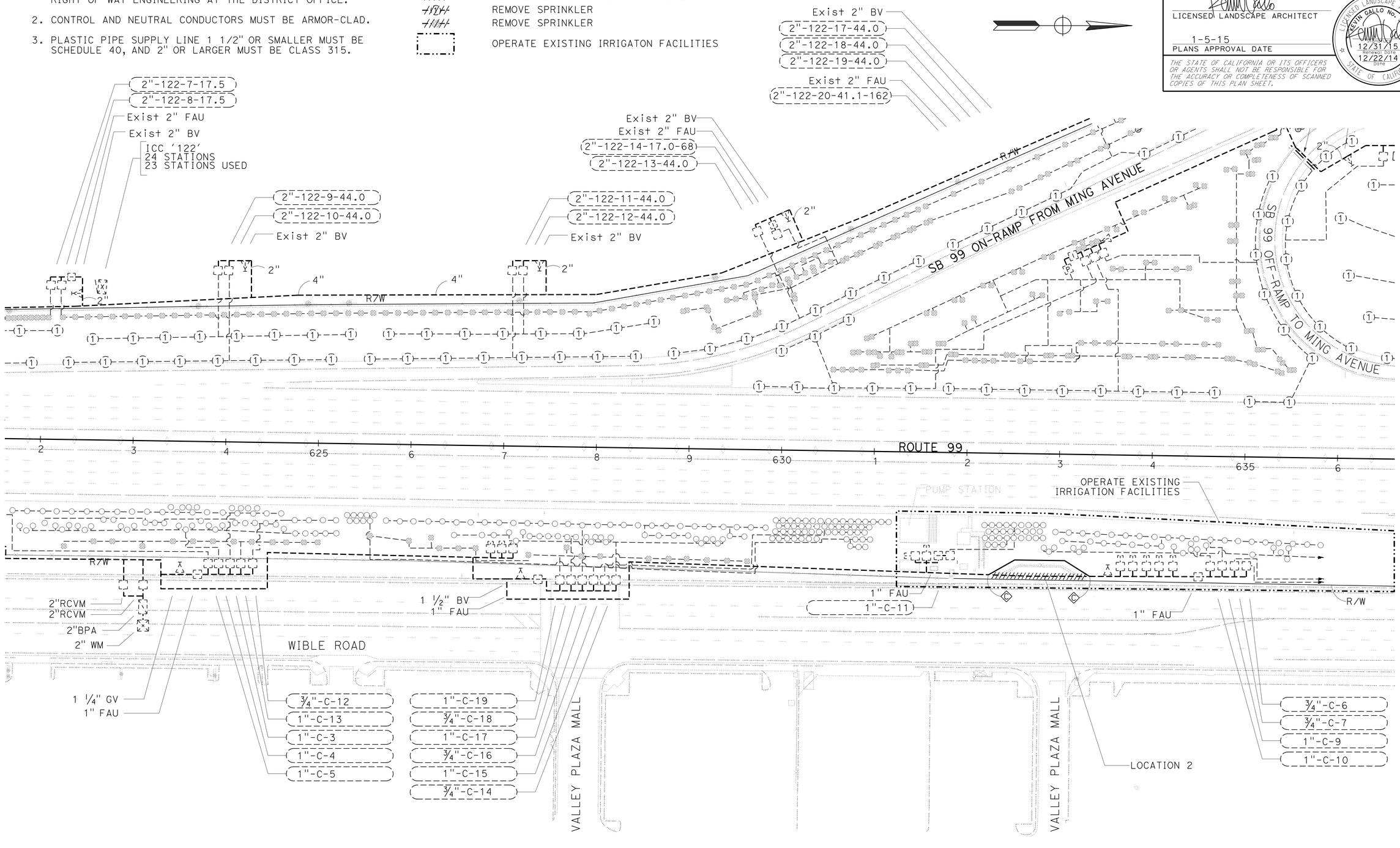
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. CONTROL AND NEUTRAL CONDUCTORS MUST BE ARMOR-CLAD.
3. PLASTIC PIPE SUPPLY LINE 1 1/2" OR SMALLER MUST BE SCHEDULE 40, AND 2" OR LARGER MUST BE CLASS 315.

LEGEND:

- REMOVE PLASTIC PIPE SUPPLY LINE
- REMOVE SPRINKLER
- REMOVE SPRINKLER
- OPERATE EXISTING IRRIGATON FACILITIES



APPROVED FOR IRRIGATION WORK ONLY

LOCATION 2
PM 22.48

IRRIGATION PLAN

SCALE: 1" = 50'

IP-1

REVISED BY	DATE REVISED
KEVIN GALLO	DAVID MARTIN
CALCULATED-DESIGNED BY	CHECKED BY
SENIOR LANDSCAPE ARCHITECT	BRAD COLE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® LANDSCAPE ARCHITECTURE

LAST REVISION DATE PLOTTED => 07-JAN-2015
TIME PLOTTED => 15:45
12-22-14

BORDER LAST REVISED 7/2/2010

USERNAME => s115755
DGN FILE => 0612000122sp001.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1501

PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	32	66

LICENSED LANDSCAPE ARCHITECT

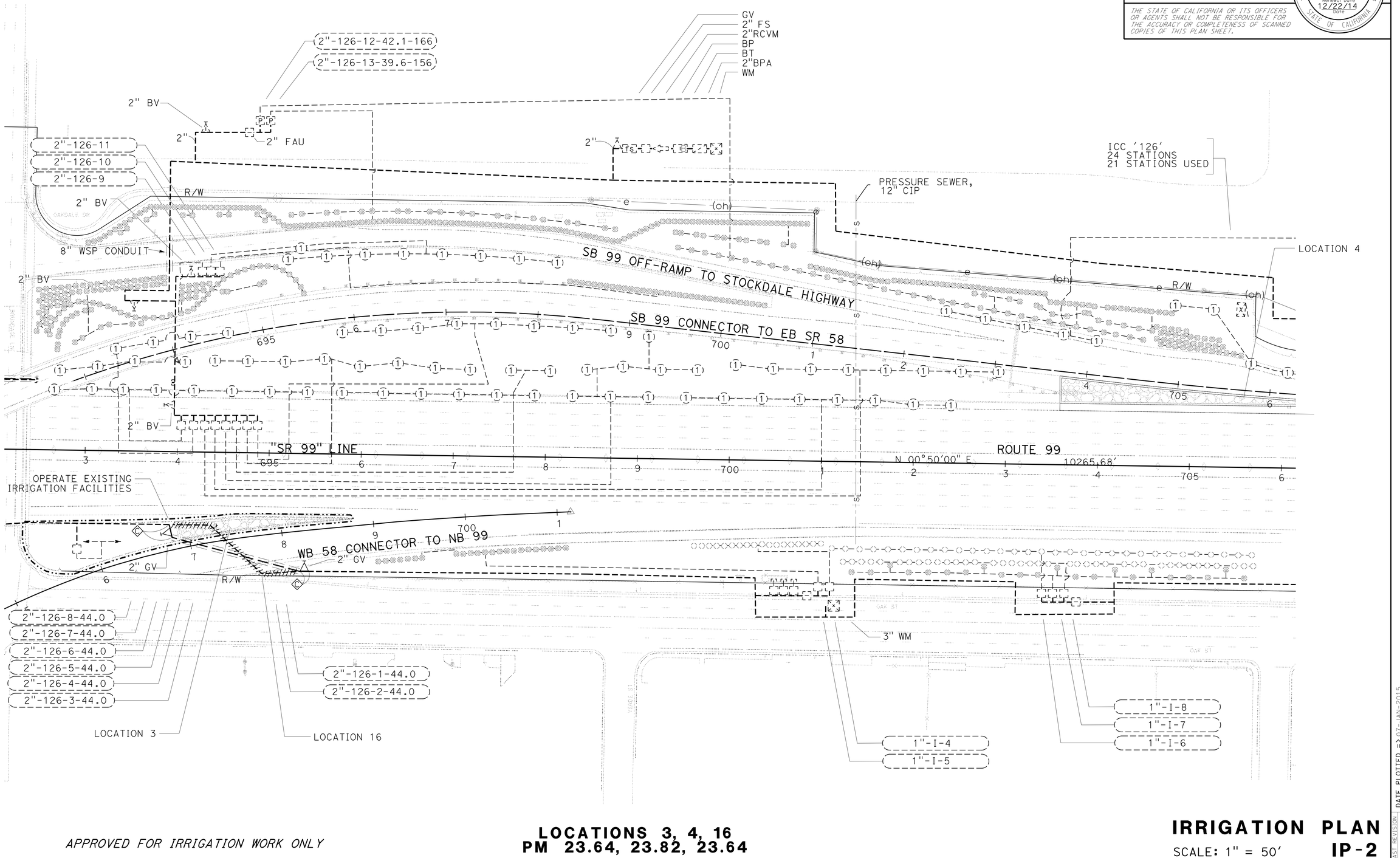
1-5-15
PLANS APPROVAL DATE

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
KEVIN GALLO No. 2578
Date 12/31/15
Renewal Date 12/22/14
STATE OF CALIFORNIA

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



APPROVED FOR IRRIGATION WORK ONLY

LOCATIONS 3, 4, 16
PM 23.64, 23.82, 23.64

IRRIGATION PLAN
SCALE: 1" = 50'
IP-2

LAST REVISION
DATE PLOTTED => 07-JAN-2015
TIME PLOTTED => 15:45
12-22-14

REVISED BY | DATE REVISED
KEVIN GALLO | DAVID MARTIN
CALCULATED-DESIGNED BY | CHECKED BY
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® LANDSCAPE ARCHITECTURE
SENIOR LANDSCAPE ARCHITECT
BRAD COLE

BORDER LAST REVISED 7/2/2010
USERNAME => s115755
DGN FILE => 0612000122sp002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1501
PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	33	66

LICENSED LANDSCAPE ARCHITECT

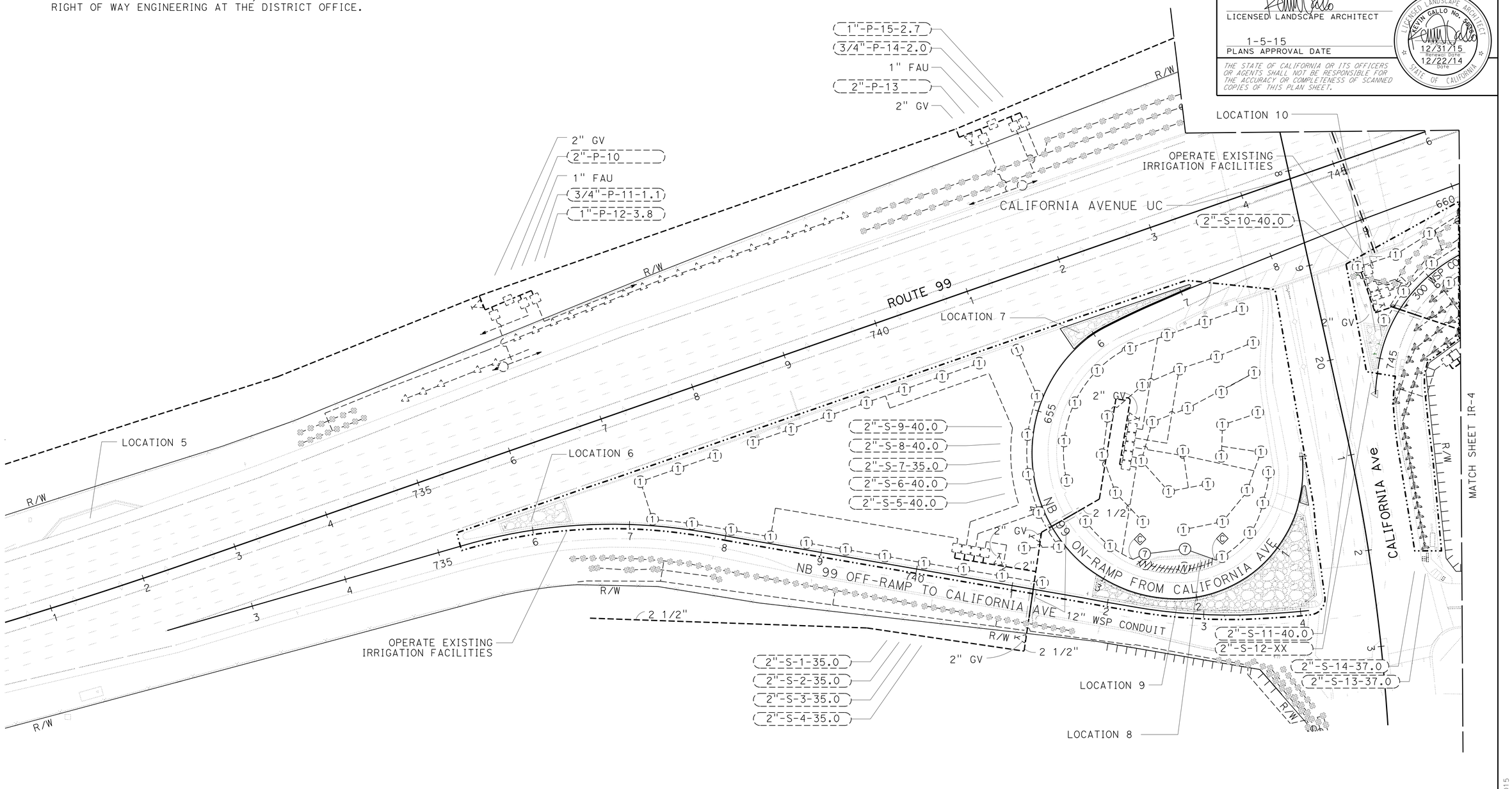
1-5-15
PLANS APPROVAL DATE

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 — KEVIN GALLO No. 2558 — 12/31/15 Renewal Date — 12/22/14 Date — STATE OF CALIFORNIA

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



APPROVED FOR IRRIGATION WORK ONLY

LOCATIONS 5, 6, 7, 8, 9, 10
PM 24.33, 24.43, 24.53, 24.54, 24.52, 24.59

IRRIGATION PLAN
SCALE: 1" = 50'
IP-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: BRAD COLE

CALCULATED-DESIGNED BY: KEVIN GALLO
CHECKED BY: DAVID MARTIN

REVISED BY	DATE REVISED

LAST REVISION — DATE PLOTTED => 07-JAN-2015
TIME PLOTTED => 15:45
12-22-14

BORDER LAST REVISED 7/2/2010

USERNAME => s115755
DGN FILE => 0612000122sp003.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1507

PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	34	66

LICENSED LANDSCAPE ARCHITECT

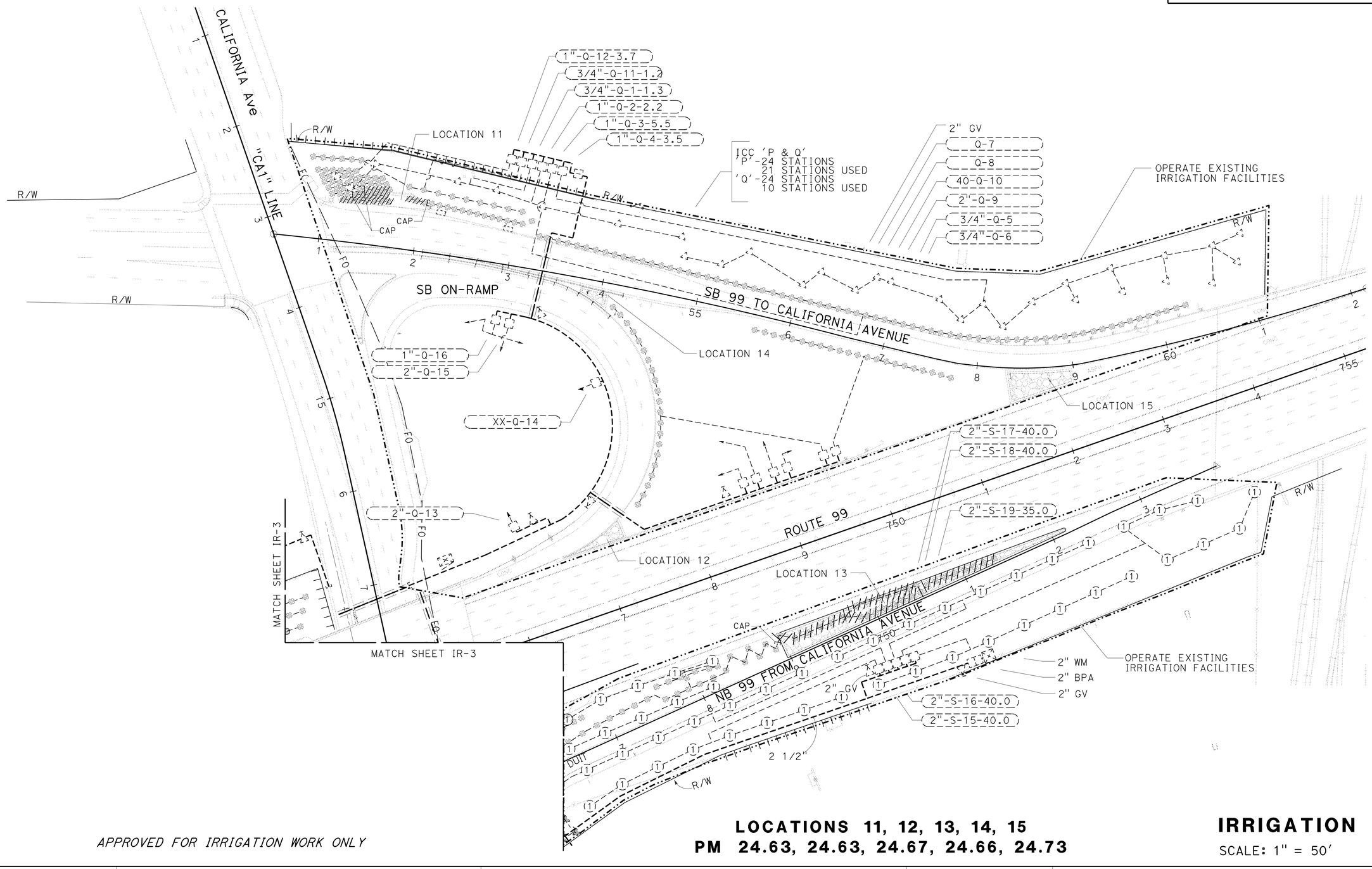
1-5-15
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
KEVIN GALLO No. 4558
Date 12/31/15
Renewal Date 12/22/14
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:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



APPROVED FOR IRRIGATION WORK ONLY

LOCATIONS 11, 12, 13, 14, 15
PM 24.63, 24.63, 24.67, 24.66, 24.73

IRRIGATION PLAN

SCALE: 1" = 50'

IP-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: BRAD COLE

CALCULATED-DESIGNED BY: KEVIN GALLO
CHECKED BY: DAVID MARTIN

REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 07-JAN-2015
12-22-14 | TIME PLOTTED => 15:45

BORDER LAST REVISED 7/2/2010

USERNAME => s115755
DGN FILE => 0612000122sp004.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1501

PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	35	66

LICENSED LANDSCAPE ARCHITECT

1-5-15
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
KEVIN GALLO No. 2578
Date 12/31/15
Renewal Date 12/22/14
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.

IRRIGATION
SUBTOTALS PER VALVE ON LATERAL SUPPLY SIDE OF CONTROL VALVE

	DESCRIPTION	UNIT	VALVE OR ASSEMBLY NUMBER 'S' 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	SUBTOTALS	UNIT	DESCRIPTION	
PLASTIC PIPE SUPPLY LINE (SCHEDULE 40)	1½"	LF					100															100	LF	1½"	PLASTIC PIPE SUPPLY LINE (SCHEDULE 40)
SPRINKLER	RISER SPRINKLER ASSEMBLY (GEAR DRIVEN)	EA					2															2	EA	RISER SPRINKLER ASSEMBLY (GEAR DRIVEN)	SPRINKLER

IRRIGATION QUANTITIES
IQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	REVISED BY		CALCULATED-DESIGNED BY	KEVIN GALLO
LANDSCAPE ARCHITECTURE	BRAD COLE	DATE REVISED		CHECKED BY	DAVID MARTIN

LAST REVISION DATE PLOTTED => 07-JAN-2015
TIME PLOTTED => 15:45

BORDER LAST REVISED 7/2/2010 | USERNAME => s115755 | DGN FILE => 0612000122sr001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1501 | PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	36	66

LICENSED LANDSCAPE ARCHITECT

1-5-15
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
KEVIN GALLO No. 2578
Date 12/31/15
Renewal Date
12/22/14
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.

SUBTOTALS PER PLAN SHEET ON MAIN SUPPLY SIDE OF CONTROL VALVE

	DESCRIPTION	UNIT	IP SHEET NUMBER 1	2	3	4				SUBTOTALS
VALVES AND ASSEMBLIES GV	2 INCH	EA		2						2
PLASTIC PIPE SUPPLY LINE (SCHEDULE 40) CL 315	1½ INCH	LF								
	3 INCH	LF	120	30						150

TOTAL QUANTITIES

TOTALS	UNIT	DESCRIPTION	
2	EA	2 INCH	VALVES AND ASSEMBLIES GV
100	LF	1½ INCH	PLASTIC PIPE SUPPLY LINE (SCHEDULE 40) CL 315
150	LF	3 INCH	
2	EA	RISER SPRINKLER ASSEMBLY (GEAR DRIVEN)	SPRINKLER

REVISED BY | DATE REVISED
KEVIN GALLO | DAVID MARTIN
CALCULATED-DESIGNED BY | CHECKED BY
SENIOR LANDSCAPE ARCHITECT | BRAD COLE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® LANDSCAPE ARCHITECTURE

IRRIGATION QUANTITIES
IQ-2

LAST REVISION 12-22-14 | DATE PLOTTED => 07-JAN-2015 | TIME PLOTTED => 15:45

BORDER LAST REVISED 7/2/2010 | USERNAME => s115755 | DGN FILE => 0612000122sr002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1501 | PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	37	66

LICENSED LANDSCAPE ARCHITECT

1-5-15
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
KEVIN GALLO No. 4598
Date 12/31/15
Renewal Date 12/22/14
STATE OF CALIFORNIA

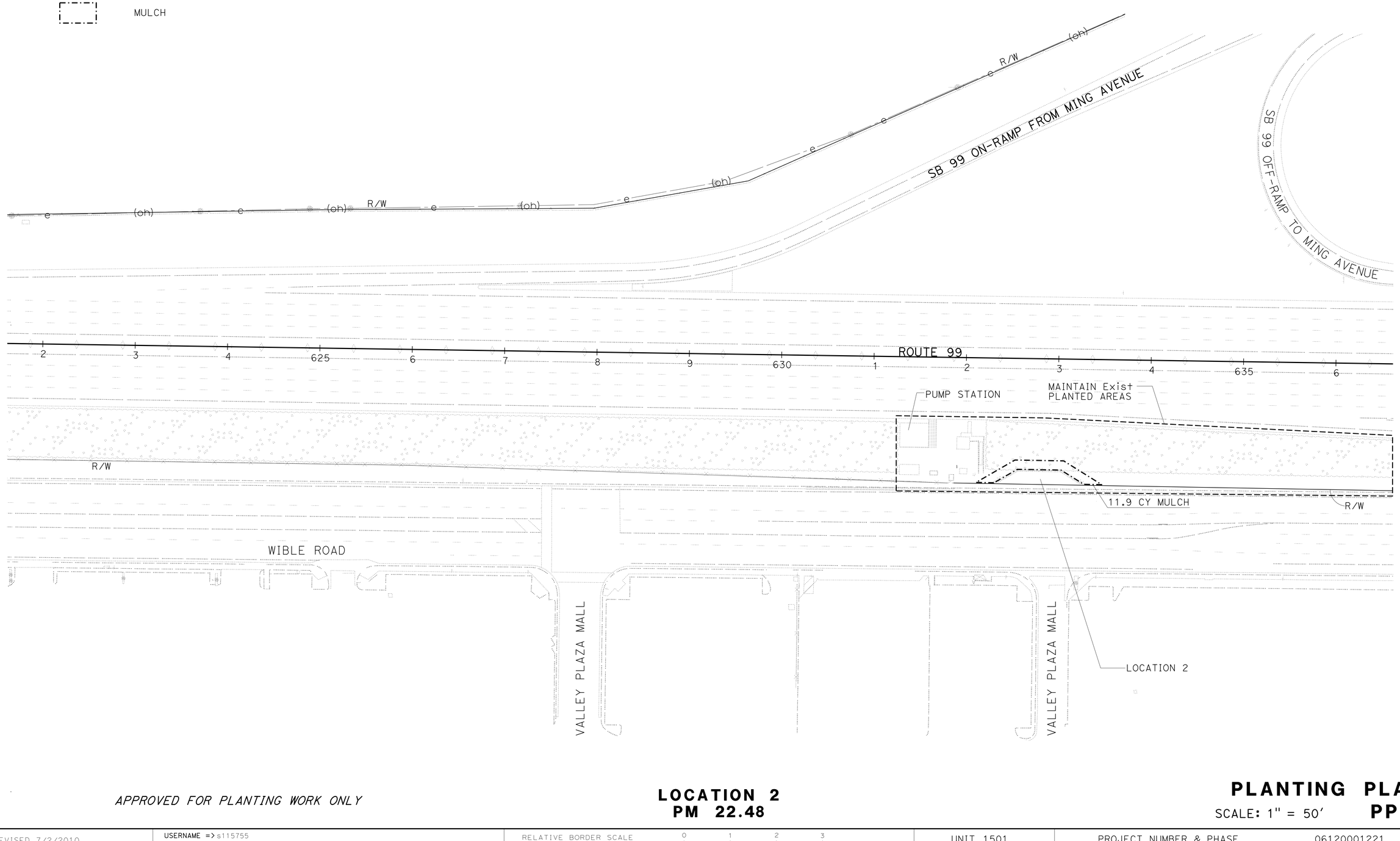
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGEND:

MAINTAIN EXISTING PLANTED AREAS

MULCH



APPROVED FOR PLANTING WORK ONLY

LOCATION 2
PM 22.48

PLANTING PLAN

SCALE: 1" = 50'

PP-1

REVISED BY | DATE REVISED
KEVIN GALLO | DAVID MARTIN
CALCULATED-DESIGNED BY | CHECKED BY
SENIOR LANDSCAPE ARCHITECT | BRAD COLE
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® LANDSCAPE ARCHITECTURE

LAST REVISION | DATE PLOTTED => 07-JAN-2015
12-22-14 | TIME PLOTTED => 15:45

BORDER LAST REVISED 7/2/2010 | USERNAME => s115755 | DGN FILE => 0612000122su001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1501 | PROJECT NUMBER & PHASE 06120001221

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

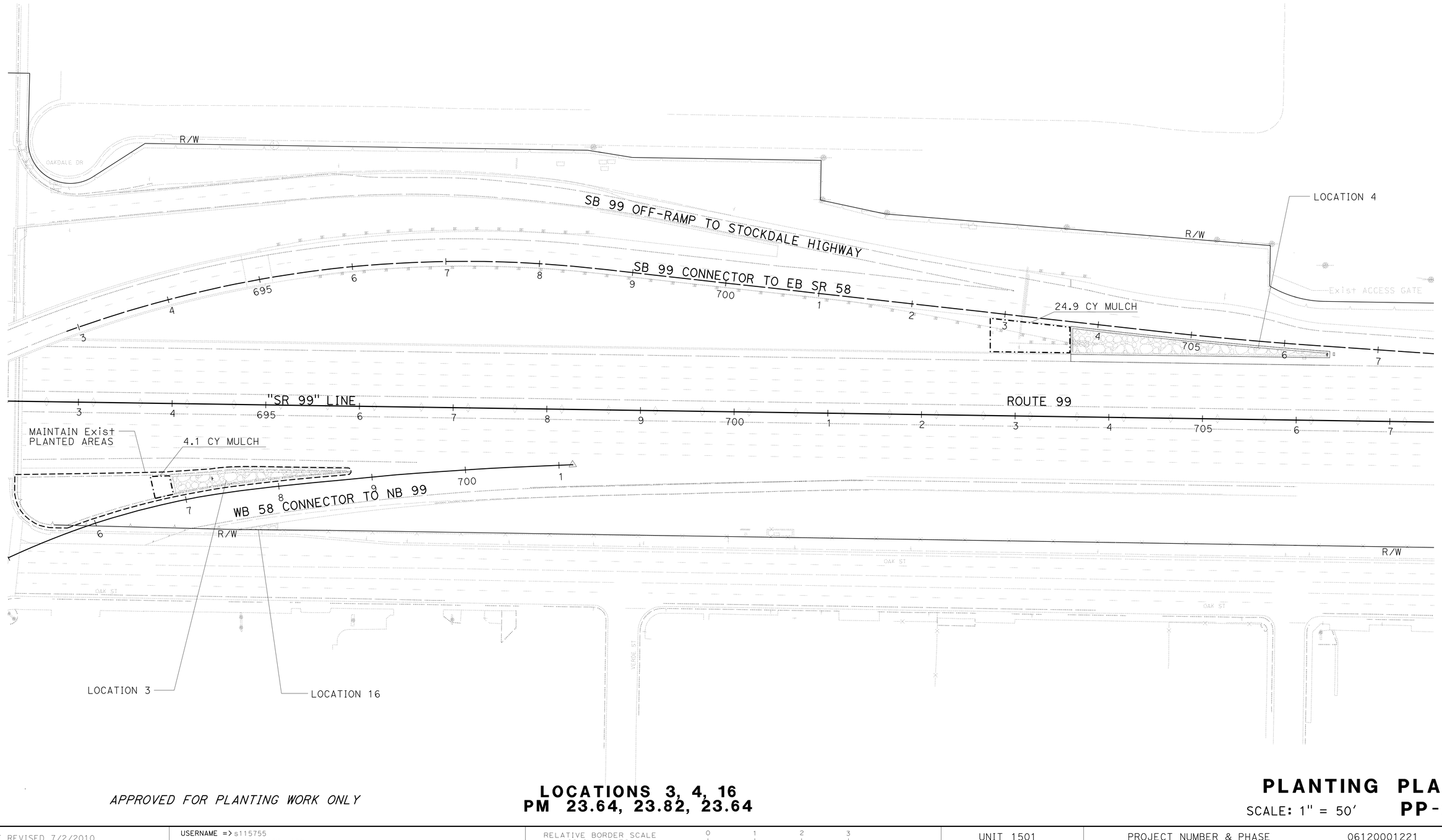
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	38	66

LICENSED LANDSCAPE ARCHITECT

1-5-15
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
KEVIN GALLO No. 2578
Date 12/31/15
Renewal Date
12/22/14
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.



APPROVED FOR PLANTING WORK ONLY

LOCATIONS 3, 4, 16
PM 23.64, 23.82, 23.64

PLANTING PLAN

SCALE: 1" = 50'

PP-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: BRAD COLE

CALCULATED-DESIGNED BY: KEVIN GALLO
CHECKED BY: DAVID MARTIN

REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 07-JAN-2015
12-22-14 | TIME PLOTTED => 15:45

BORDER LAST REVISED 7/2/2010

USERNAME => s115755
DGN FILE => 0612000122su002.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1501

PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	39	66

LICENSED LANDSCAPE ARCHITECT

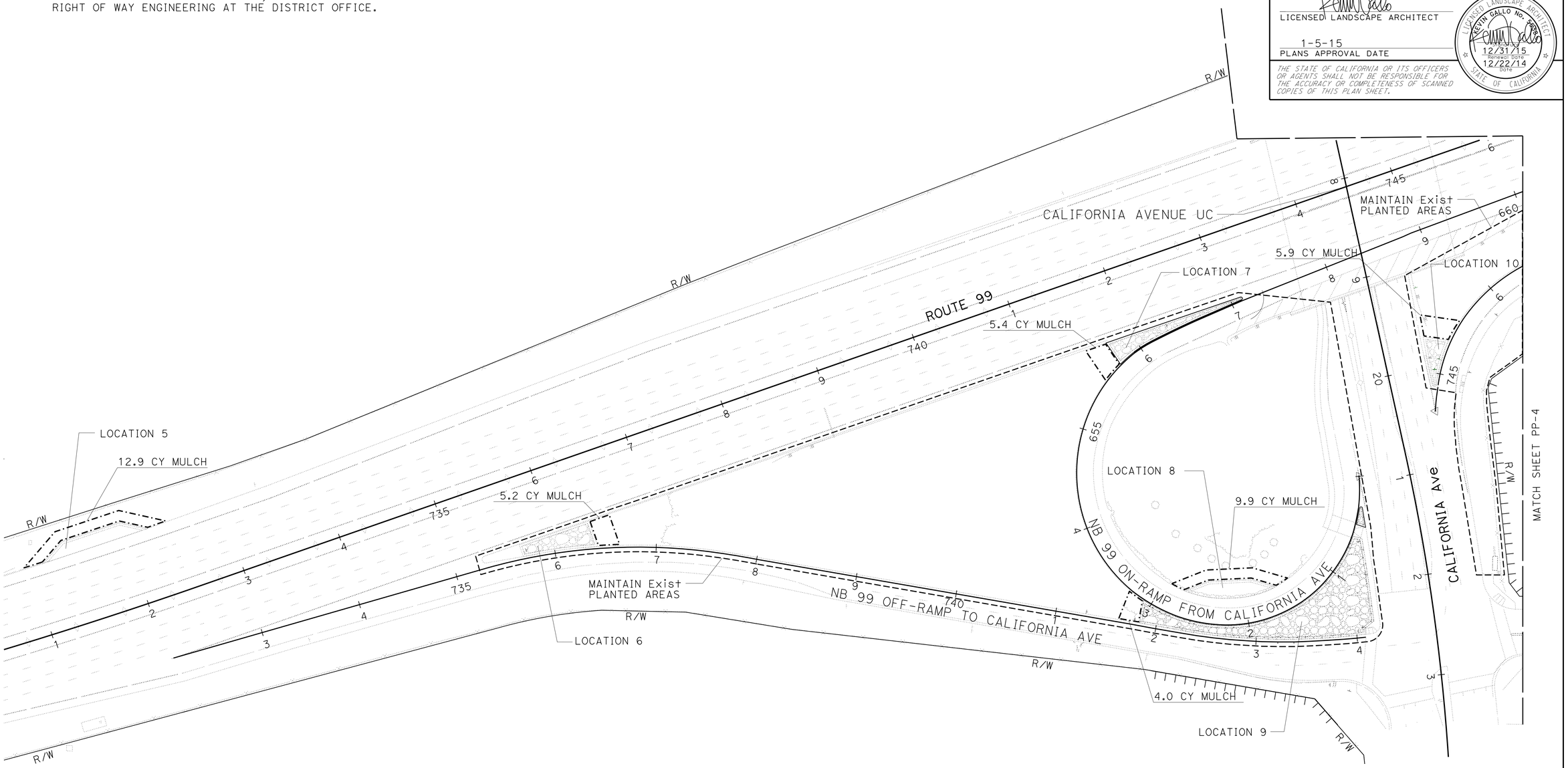
1-5-15
PLANS APPROVAL DATE

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
KEVIN GALLO No. 2598
12/31/15
Renewal Date
12/22/14
Date
STATE OF CALIFORNIA

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



LOCATIONS 5, 6, 7, 8, 9, 10
PM 24.33, 24.43, 24.53, 24.54, 24.52, 24.59

APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN

SCALE: 1" = 50'

PP-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: BRAD COLE
CALCULATED-DESIGNED BY: KEVIN GALLO
CHECKED BY: DAVID MARTIN
REVISED BY
DATE REVISED

LAST REVISION
DATE PLOTTED => 07-JAN-2015
TIME PLOTTED => 15:45
12-22-14

BORDER LAST REVISED 7/2/2010
USERNAME => s115755
DGN FILE => 0612000122su003.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1507
PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	40	66

LICENSED LANDSCAPE ARCHITECT

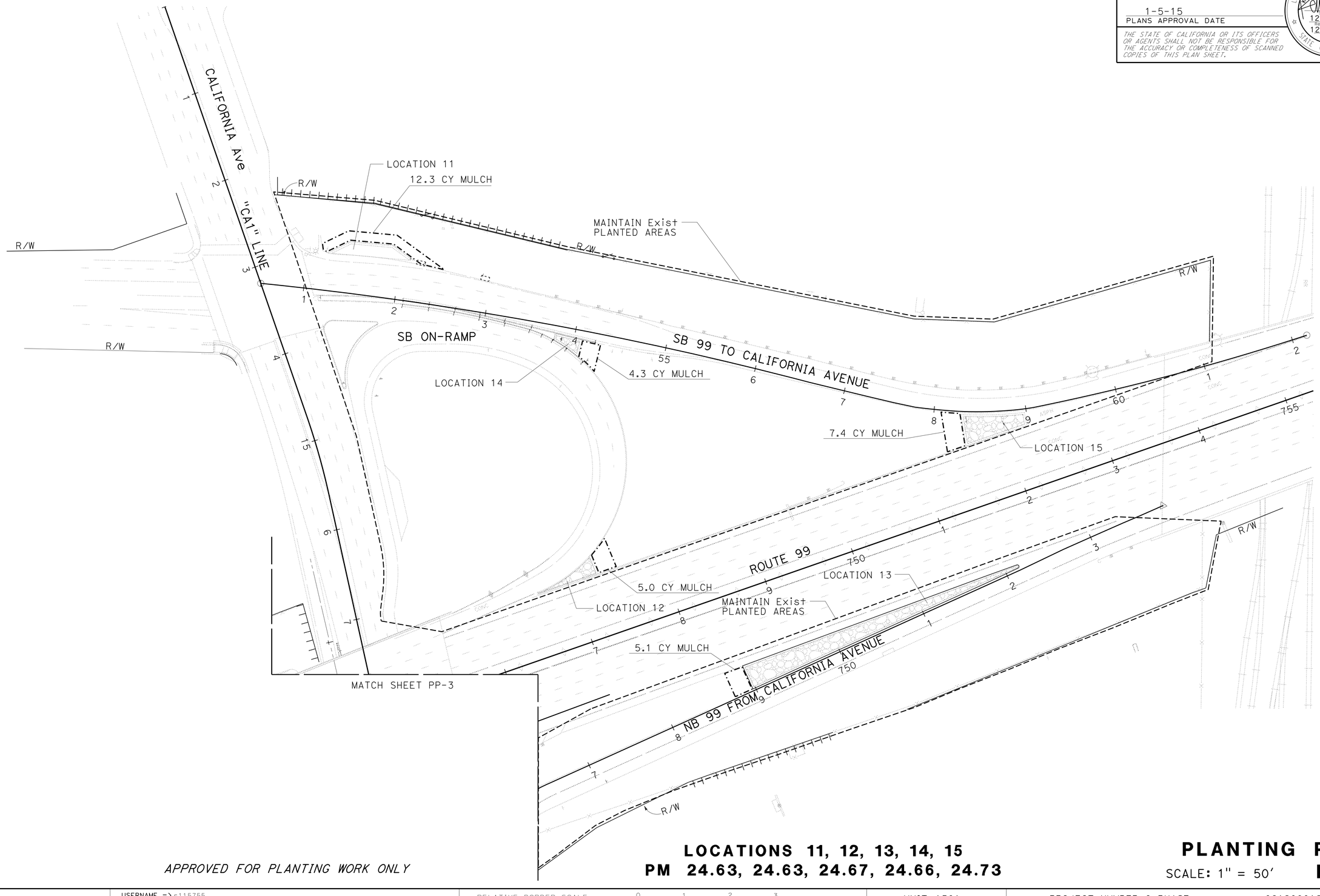
1-5-15
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
KEVIN GALLO No. 4558
Date 12/31/15
Renewal Date 12/22/14
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:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



APPROVED FOR PLANTING WORK ONLY

LOCATIONS 11, 12, 13, 14, 15
PM 24.63, 24.63, 24.67, 24.66, 24.73

PLANTING PLAN
SCALE: 1" = 50'
PP-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® LANDSCAPE ARCHITECTURE

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY
KEVIN GALLO

CHECKED BY
DAVID MARTIN

SENIOR LANDSCAPE ARCHITECT
BRAD COLE

LAST REVISION
DATE PLOTTED => 07-JAN-2015
TIME PLOTTED => 15:45
12-22-14

BORDER LAST REVISED 7/2/2010

USERNAME => s115755
DGN FILE => 0612000122su004.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1501

PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	41	66

LICENSED LANDSCAPE ARCHITECT

1-5-15
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
KEVIN GALLO No. 2578
Date 12/31/15
Renewal Date 12/22/14
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.

HIGHWAY PLANTING QUANTITIES

SHEET	WOOD MULCH
	CY
PP-1	11.9
PP-2	29.0
PP-3	43.3
PP-4	34.1
TOTAL	118.3

CALCULATED-DESIGNED BY
CHECKED BY
KEVIN GALLO
DAVID MARTIN
REVISED BY
DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE
SENIOR LANDSCAPE ARCHITECT
BRAD COLE

LANDSCAPE QUANTITIES
LQ-1

LAST REVISION
DATE PLOTTED => 07-JAN-2015
TIME PLOTTED => 15:45
12-22-14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	42	66

Paul Matos 12-30-14
REGISTERED ELECTRICAL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAUL MATOS
No. 18757
Exp. 6/30/15
ELECTRICAL
STATE OF CALIFORNIA

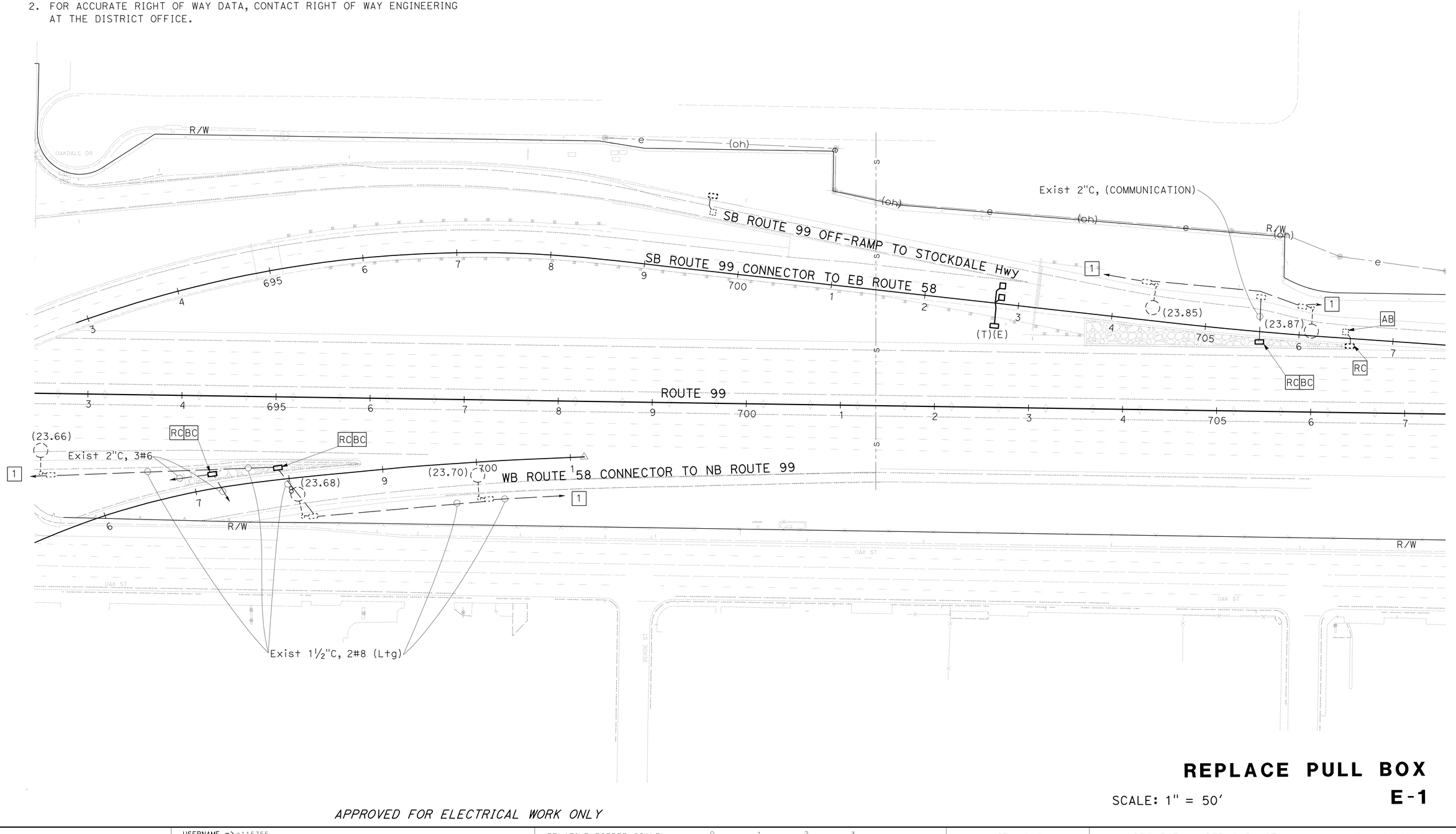
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND: (FOR THIS SHEET ONLY)

[1] TO Ltg Ckt NOT SHOWN.

NOTES:

1. ALL PULL BOXES MUST BE No. 5(T) UNLESS OTHERWISE NOTED.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



APPROVED FOR ELECTRICAL WORK ONLY

REPLACE PULL BOX

SCALE: 1" = 50'

E-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: KARIM ABDOLLAHIAN
CHECKED BY: PAUL MATOS
FUNCTIONAL SUPERVISOR: ALI BAKHDOUD

LAST REVISION
DATE PLOTTED => 10-MAR-2015
TIME PLOTTED => 14:53
01-05-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	43	66

Paul Matos 12-30-14
REGISTERED ELECTRICAL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAUL MATOS
No. 18757
Exp. 6/30/15
ELECTRICAL
STATE OF CALIFORNIA

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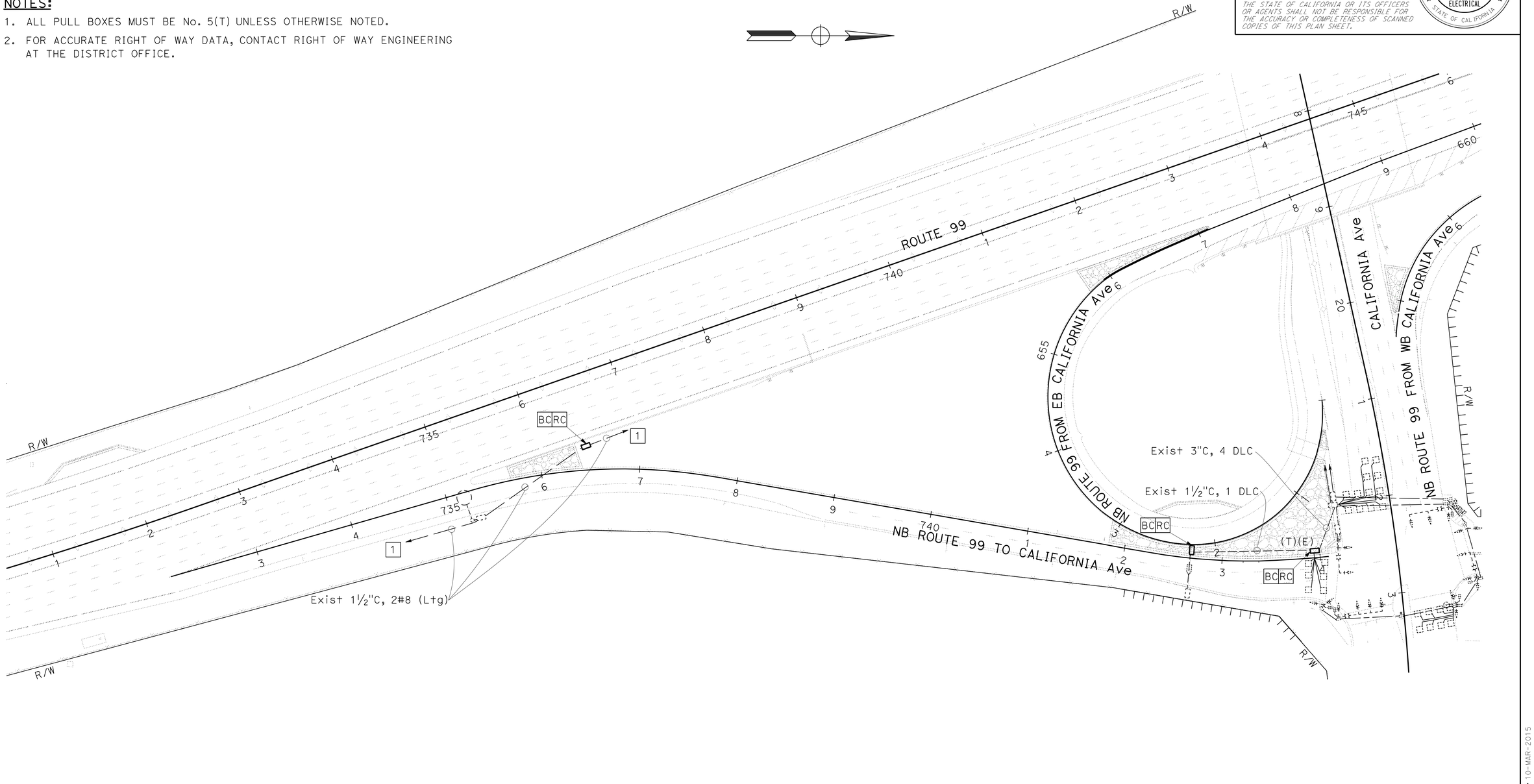
LEGEND: (FOR THIS SHEET ONLY)

[1] TO Ltg Ckt NOT SHOWN.

NOTES:

1. ALL PULL BOXES MUST BE No. 5(T) UNLESS OTHERWISE NOTED.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



APPROVED FOR ELECTRICAL WORK ONLY

REPLACE PULL BOX

SCALE: 1" = 50'

E-2

CALCULATED-DESIGNED BY	KARIM ABDOLLAHIAN	REVISED BY			
CHECKED BY	PAUL MATOS	DATE REVISED			
FUNCTIONAL SUPERVISOR	ALI BAKHDOUD				
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans® ELECTRICAL DESIGN				

LAST REVISION: DATE PLOTTED => 10-MAR-2015
01-05-15 TIME PLOTTED => 14:53

BORDER LAST REVISED 7/2/2010 | USERNAME => s115755 | DGN FILE => 0612000122ua002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1515 | PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	44	66

Paul Matos 12-30-14
REGISTERED ELECTRICAL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAUL MATOS
No. 18757
Exp. 6/30/15
ELECTRICAL
STATE OF CALIFORNIA

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LEGEND: (FOR THIS SHEET ONLY)

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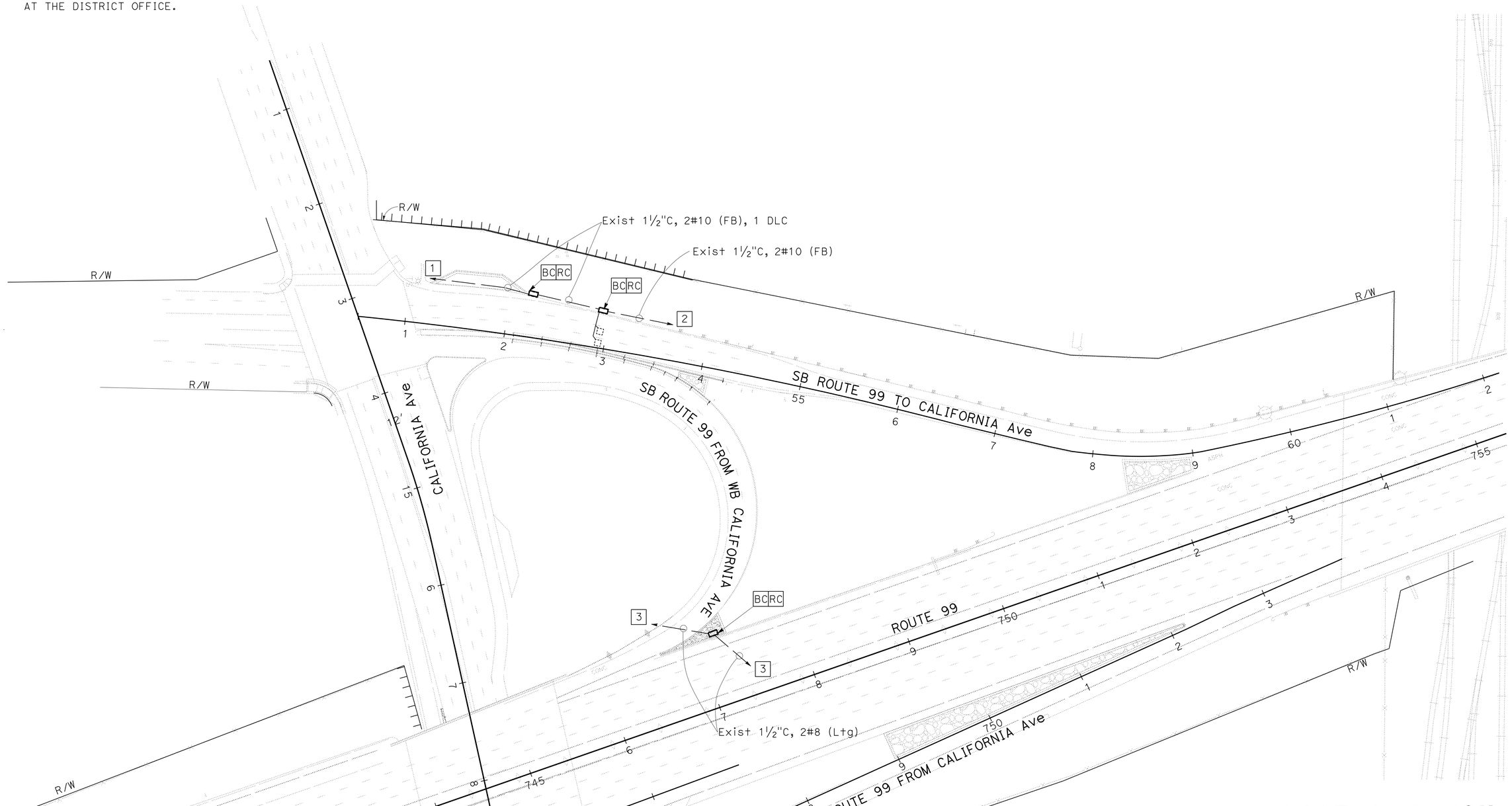
[2] TO Exist FB NOT SHOWN.

[3] TO Ltg Ckt NOT SHOWN.

NOTES:

1. ALL PULL BOXES MUST BE No. 5(T) UNLESS OTHERWISE NOTED.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



REPLACE PULL BOX E-3

SCALE: 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ELECTRICAL DESIGN
FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: KARIM ABDOLLAHIAN
CHECKED BY: PAUL MATOS
REVISED BY | DATE REVISED

LAST REVISION: DATE PLOTTED => 10-MAR-2015, TIME PLOTTED => 14:53, 01-05-15

BORDER LAST REVISED 7/2/2010
USERNAME => s115755
DGN FILE => 0612000122ua003.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1515
PROJECT NUMBER & PHASE 06120001221

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	45	66

Paul Matos 12-30-14
REGISTERED ELECTRICAL ENGINEER DATE

1-5-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAUL MATOS
No. 18757
Exp. 6/30/15
ELECTRICAL
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:

THE QUANTITIES SHOWN IN THIS TABLE ARE NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
FOR COMPLETE ELECTRICAL WORK, SEE ELECTRICAL PLAN SHEETS.

REPLACE PULL BOX

SHEET No.	No. 5(T) PB	No. 5(T)((E) PB	TYPE A DETECTOR LOOP
	EA		
E-1	3	1	2
E-2	2	1	0
E-3	3	0	0

APPROVED FOR ELECTRICAL WORK ONLY

ELECTRICAL QUANTITIES
E-4

CALCULATED-DESIGNED BY: KARIM ABDOLLAHIAN
CHECKED BY: PAUL MATOS
REVISED BY
DATE REVISED

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN

LAST REVISION: DATE PLOTTED => 10-MAR-2015
01-05-15 TIME PLOTTED => 14:53

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
06	Ker	99	21.7/24.7	46	66

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

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TO ACCOMPANY PLANS DATED 1-5-15

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
06	Ker	99	21.7/24.7	47	66

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-15
CIVIL
STATE OF CALIFORNIA

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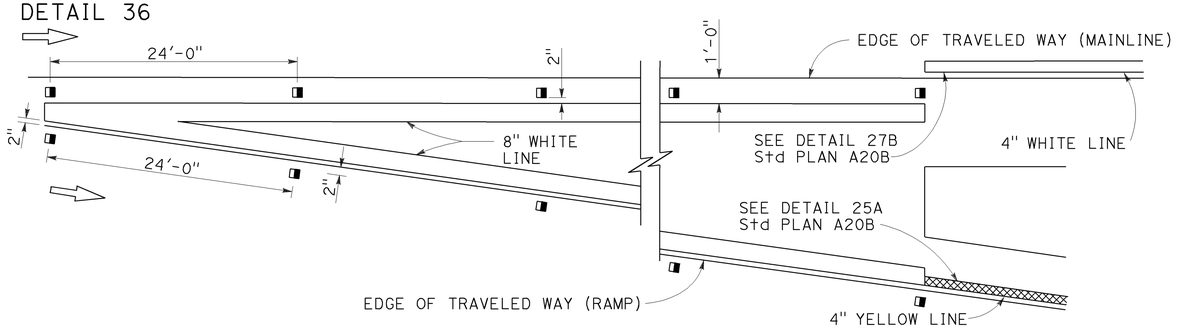
TO ACCOMPANY PLANS DATED 1-5-15

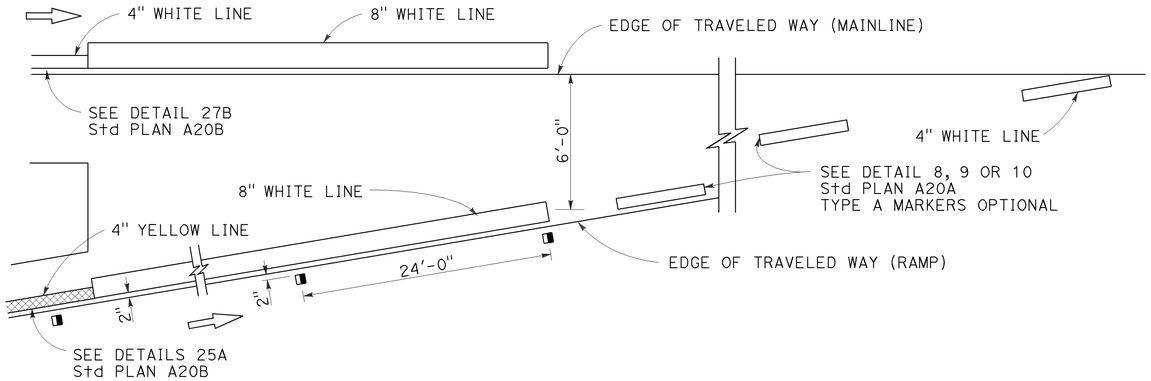
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT

DETAIL 36



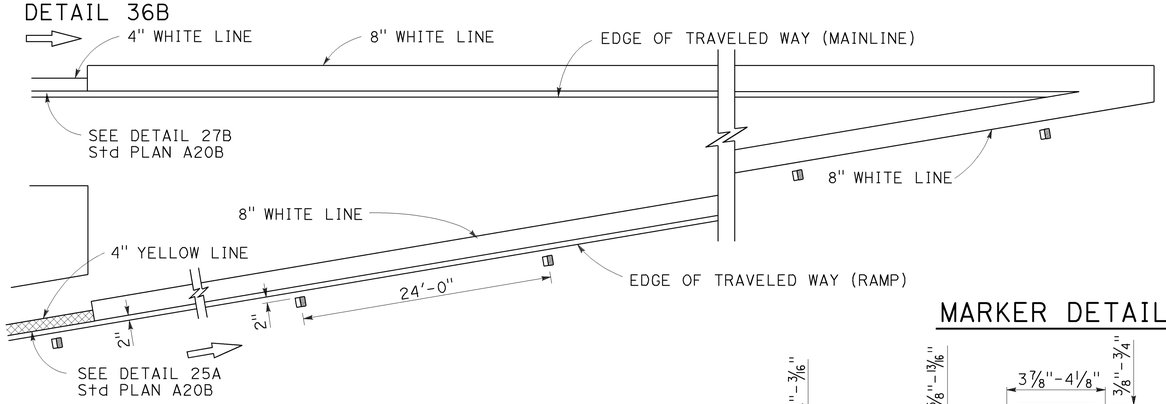
ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT

DETAIL 36A

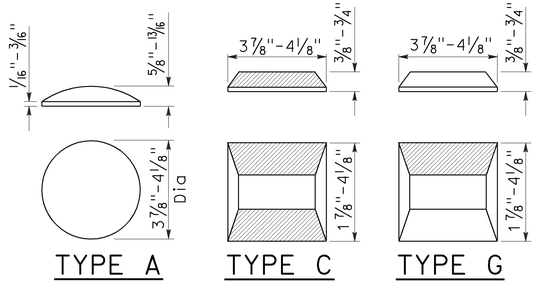


ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

DETAIL 36B



MARKER DETAILS



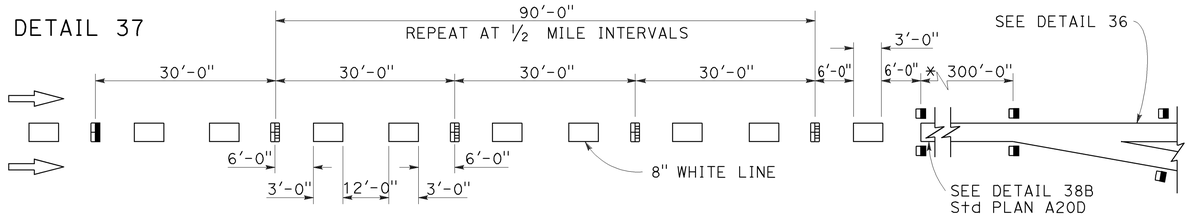
LEGEND:

MARKERS

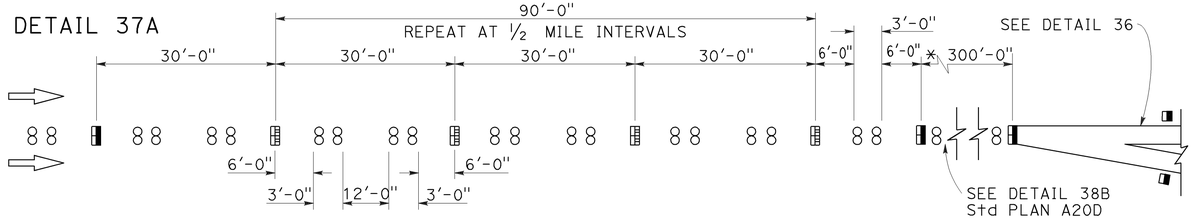
- ○ TYPE A WHITE NON-REFLECTIVE
- ▣ TYPE C RED-CLEAR RETROREFLECTIVE
- ◨ TYPE G ONE-WAY CLEAR RETROREFLECTIVE

LANE DROP AT EXIT RAMPS

DETAIL 37



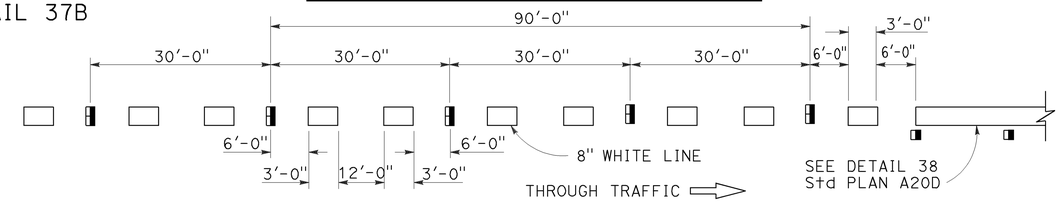
DETAIL 37A



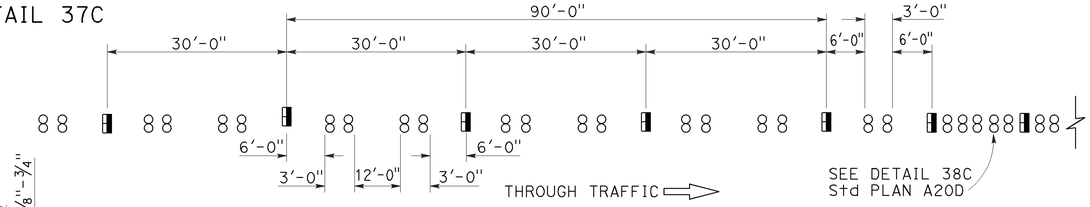
* The solid channelizing line shown may be omitted on short auxiliary lanes where weaving length is critical.

LANE DROP AT INTERSECTIONS

DETAIL 37B



DETAIL 37C



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

NO SCALE

RSP A20C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A20C DATED MAY 20, 2011 - PAGE 11 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A20C

2010 REVISED STANDARD PLAN RSP A20C

4-29-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	48	66

Glenn DeCou
REGISTERED CIVIL ENGINEER

July 18, 2014
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Glenn DeCou — No. C34547 — Exp. 9-30-15 — CIVIL — STATE OF CALIFORNIA

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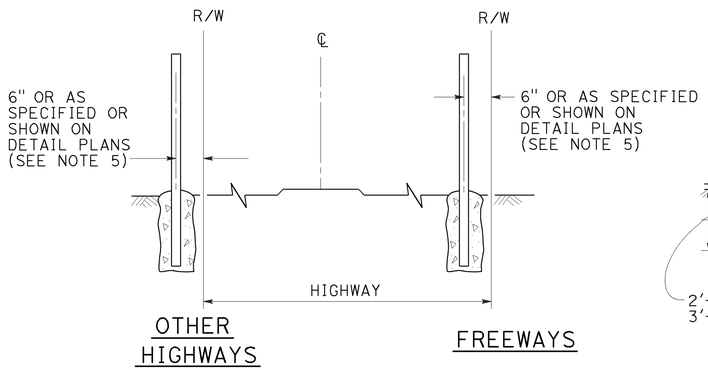
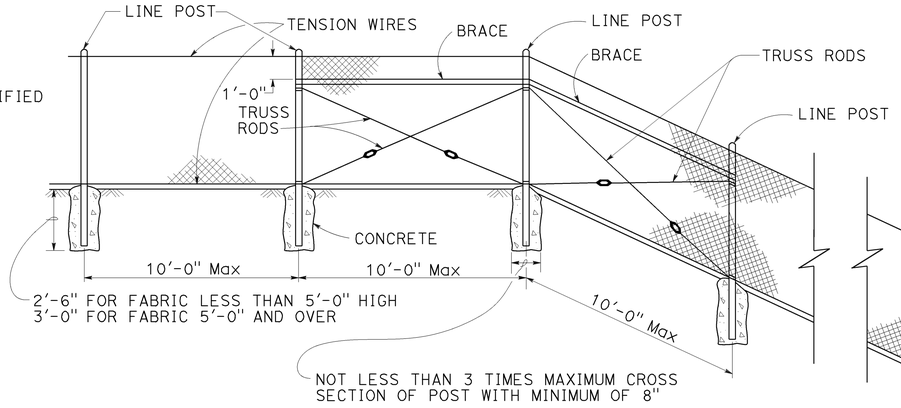
TO ACCOMPANY PLANS DATED 1-5-15

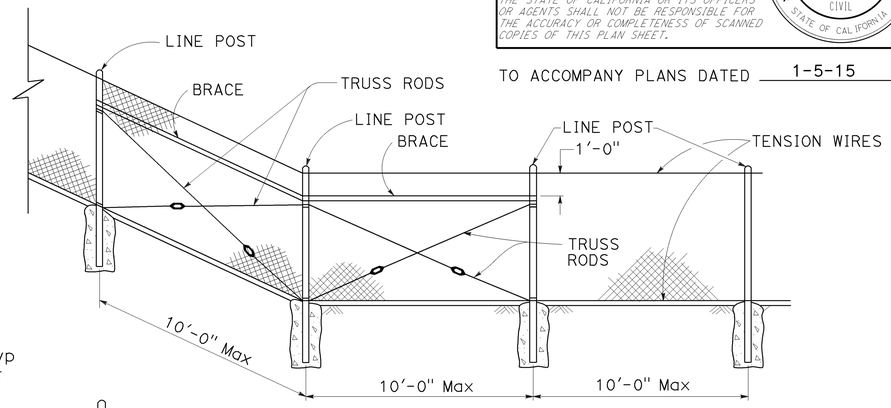
2010 REVISED STANDARD PLAN RSP A85

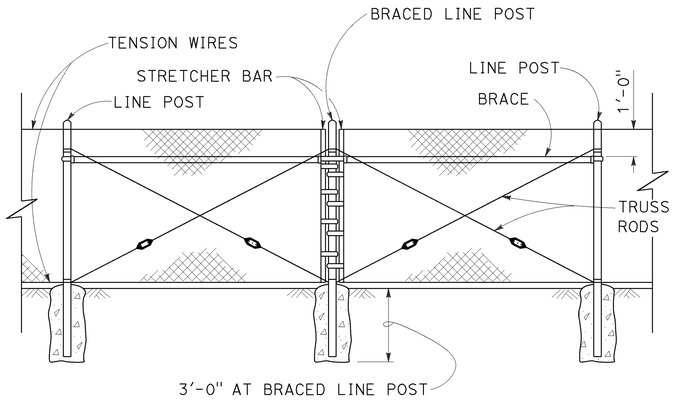


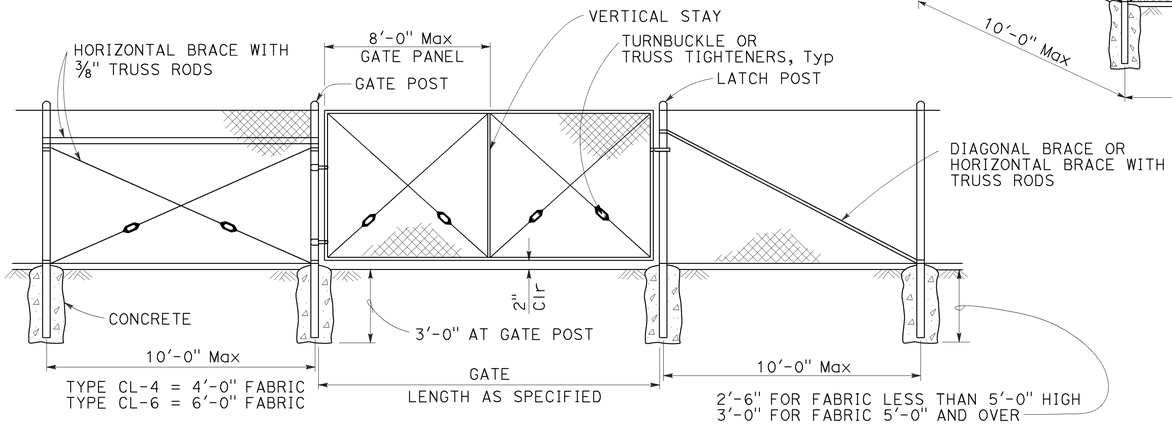
FENCE LOCATION



CHAIN LINK FENCE ON SHARP BREAK IN GRADE

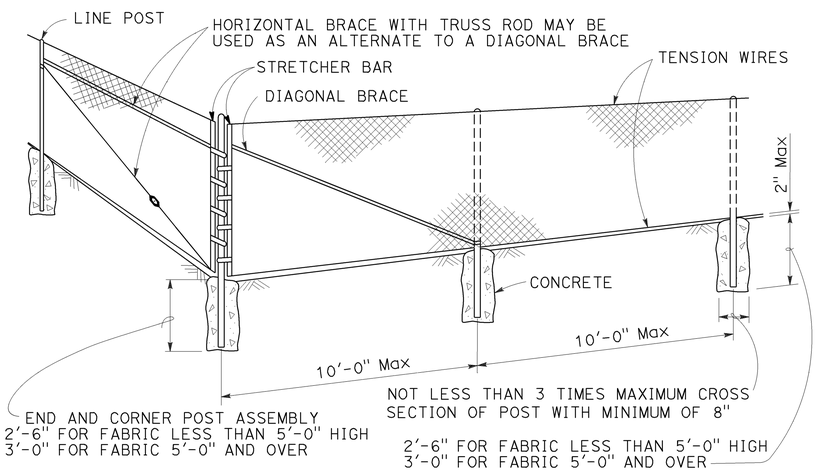






BRACED LINE POST INSTALLATION

Braced line post at intervals not exceeding 1000'



CORNER POST

CHAIN LINK GATE INSTALLATION

NOTES:

1. The table below shows minimum sized posts and braces complying with the specifications. Larger or heavier post and brace sizes may be used upon approval.
2. Sections shown in the tables must also comply with the strength requirements and other provisions of the Specifications.
3. Other sections which comply with the strength requirements and other provisions of the Specifications may be used upon approval.
4. Options exercised shall be uniform on any one project.
5. Offset to be 2'-0" at monument locations, measured at right angles to R/W lines. Taper to achieve offset to be at least 20'-0" long.
6. See Revised Standard Plan RSP A85B for Brace, Stretcher Bar, and Truss Tightener Details.

GATE POST

FENCE HEIGHT	GATE WIDTHS	ROUND OD PIPE	WEIGHT (lb/ft)
6'-0" AND LESS	UP THRU 6'-0"	2.875"	5.80
	OVER 6'-0" THRU 12'-0"	4.500"	10.80
	OVER 12'-0" THRU 18'-0"	5.563"	14.63
	OVER 18'-0" TO 24'-0" Max	6.625"	18.99
OVER 6'-0" TO 8'-0" Max	UP THRU 6'-0"	3.500"	7.58
	OVER 6'-0" THRU 12'-0"	5.563"	14.63
	OVER 12'-0" THRU 18'-0"	6.625"	18.99
	OVER 18'-0" TO 24'-0" Max	8.625"	28.58

Above post dimensions and weights are minimums. Larger sizes may be used upon approval.

TYPICAL MEMBER DIMENSIONS (See Notes)

FENCE HEIGHT	LINE POSTS				END, LATCH AND CORNER POSTS		BRACES			
	ROUND OD PIPE	WEIGHT (lb/ft)	ROLL FORMED SECTION	ROLL FORMED WEIGHT (lb/ft)	ROUND OD PIPE	WEIGHT (lb/ft)	ROUND OD PIPE	WEIGHT (lb/ft)	ROLL FORMED SECTION	ROLL FORMED WEIGHT (lb/ft)
6'-0" AND LESS	1.900"	2.72	1.875" x 1.625"	1.85	2.375"	3.65	1.66"	2.27	1.625" x 1.25"	1.35
OVER 6'-0" TO 8'-0" Max	2.375"	3.65	2.25" x 1.70"	2.78	2.875"	5.80	1.66"	2.27	1.625" x 1.25"	1.35

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CHAIN LINK FENCE

NO SCALE

RSP A85 DATED JULY 18, 2014 SUPERSEDES STANDARD PLAN A85
DATED MAY 20, 2011 - PAGE 112 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A85

7-1-14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	49	66

Glenn DeCou
REGISTERED CIVIL ENGINEER

October 19, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Glenn DeCou
No. C34547
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA

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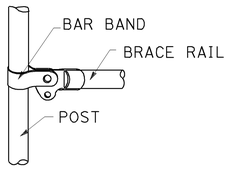
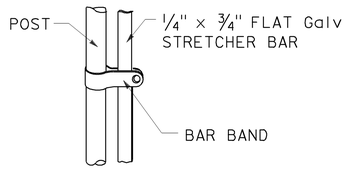
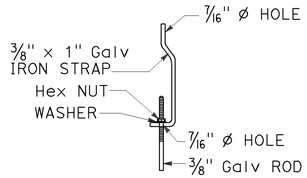
TO ACCOMPANY PLANS DATED 1-5-15



BRACE RAIL



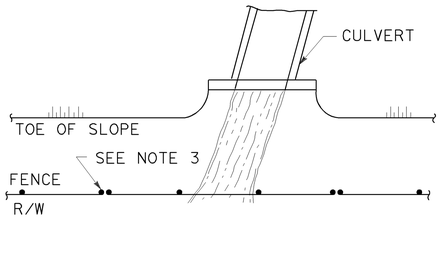
STRETCHER BAR



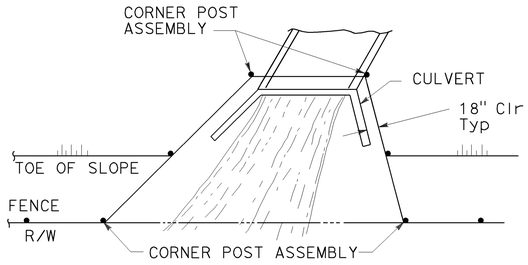
TRUSS TIGHTENER

NOTES:

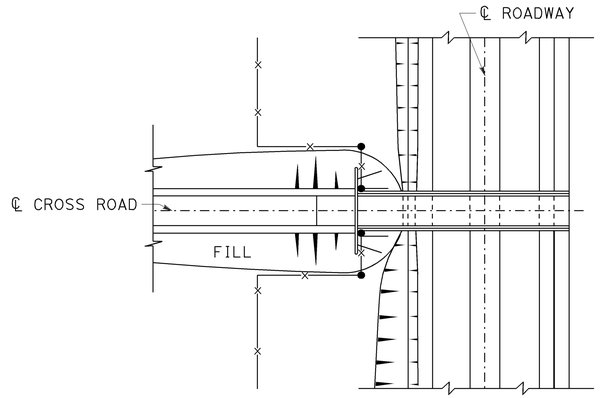
1. All material for abutment connection to be galvanized.
2. The chain link fabric shall be replaced by barbed wire strands at 12" maximum centers between the double posts.
3. When the width of the culvert makes it necessary to anchor a post to the top of the culvert, a cast iron shoe or other device approved by the Engineer shall be used.
4. Fencing over stream and around headwall may also use Barbed Wire or Wire Mesh fencing with either wood post or steel post installation.
5. See Standard Plan A85 for Chain Link fence dimensions. See Standard Plan A86 for Barbed Wire and Wire Mesh fence dimensions and for wood post and steel post installation.



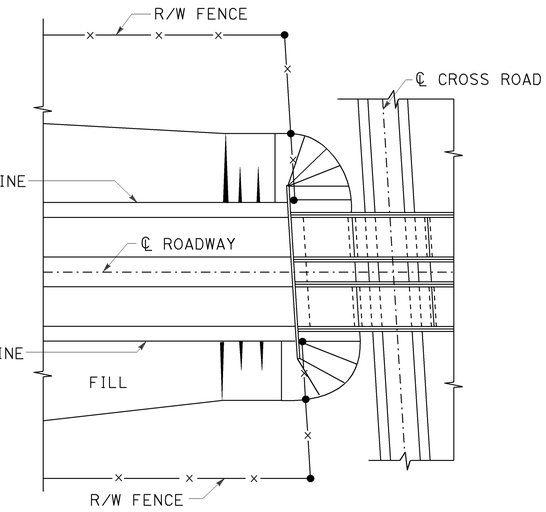
PLAN



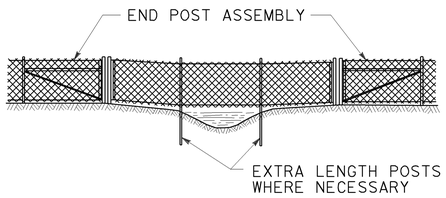
PLAN



PLAN OF ROADWAY - OVERCROSSING

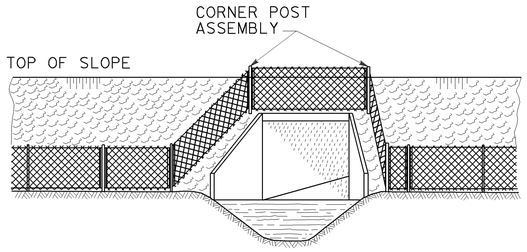


PLAN OF ROADWAY - UNDERCROSSING



ELEVATION

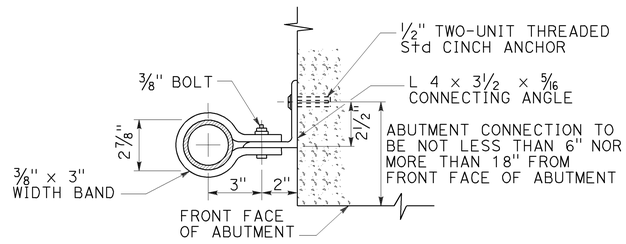
INSTALLATION OVER STREAM



ELEVATION

INSTALLATION AROUND HEADWALL

See Note 4



ABUTMENT CONNECTION

TYPICAL INSTALLATION AT BRIDGES

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CHAIN LINK FENCE DETAILS

NO SCALE

RSP A85B DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A85B DATED MAY 20, 2011 - PAGE 114 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A85B

2010 REVISED STANDARD PLAN RSP A85B

7-19-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	50	66

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

Michael Janzen No. 44788 Exp. 03-31-14 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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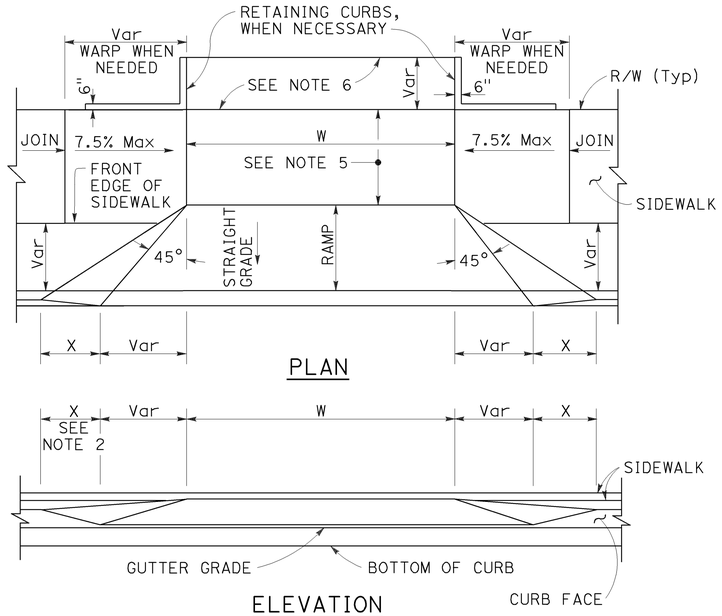
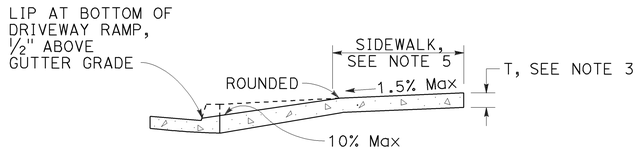
TO ACCOMPANY PLANS DATED 1-5-15



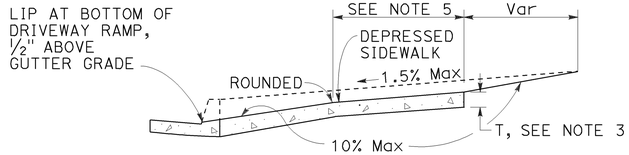
PLAN

ELEVATION



CASE A

Typical driveway, sidewalk not depressed



CASE B

Driveway with depressed sidewalk

SECTIONS

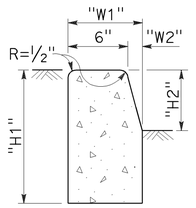
TABLE A

CURB TYPE	DIMENSIONS			
	"H1"	"H2"	"W1"	"W2"
A1-6	1'-2"	6"	7½"	1½"
A1-8	1'-4"	8"	8"	2"
A2-6	1'-0"	6"	2'-7½"	1½"
A2-8	1'-2"	8"	2'-8"	2"
A3-6	6"	5"	7¼"	1¼"
A3-8	8"	7"	7¾"	1¾"
B1-4	1'-0"	4"	7½"	2½"
B1-6	1'-2"	6"	9"	4"
B2-4	10"	4"	2'-7½"	2½"
B2-6	1'-0"	6"	2'-9"	4"
B3-4	4"	3"	7"	2"
B3-6	6"	5"	8½"	3½"
D-4	10"	4"	1'-6"	1'-1"
D-6	1'-0"	6"	2'-2"	1'-9"

CURB QUANTITIES

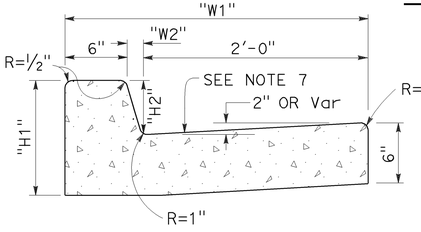
TYPE	CUBIC YARDS PER LINEAR FOOT
A1-6	0.02585
A1-8	0.03084
A2-6	0.05903
A2-8	0.06379
A3-6	0.01036
A3-8	0.01435
B1-4	0.02185
B1-6	0.02930
B2-4	0.05515
B2-6	0.06171
B3-4	0.00641
B3-6	0.01074
B4	0.05709
D-4	0.04083
D-6	0.06804
E	0.06661

DRIVEWAYS



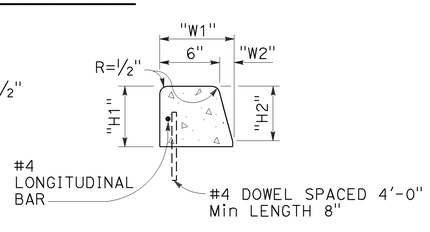
TYPE A1 CURBS

See Table A



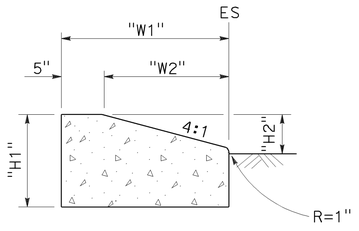
TYPE A2 CURBS

See Table A



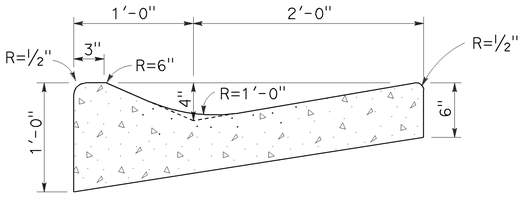
TYPE A3 CURBS

Superimposed on existing pavement
See Table A

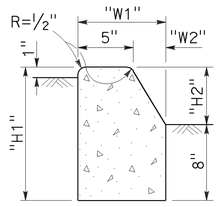


TYPE D CURBS

See Table A

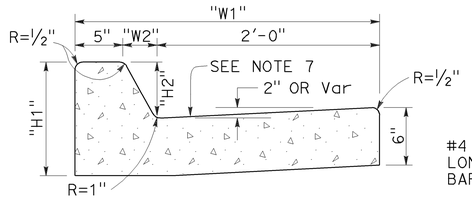


TYPE E CURB



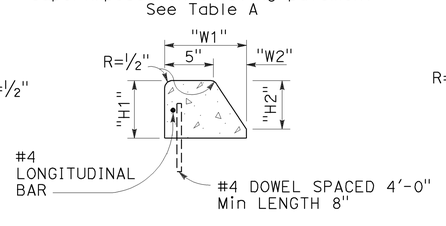
TYPE B1 CURBS

See Table A



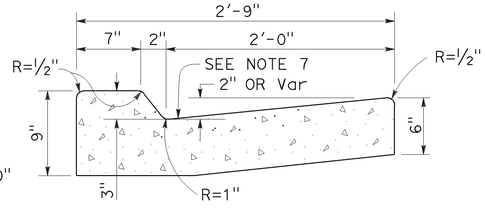
TYPE B2 CURBS

See Table A

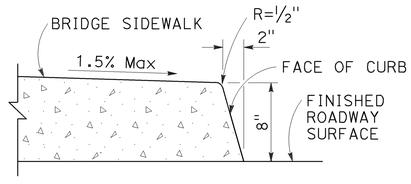


TYPE B3 CURBS

Superimposed on existing pavement
See Table A



TYPE B4 CURBS



TYPE H CURB

On Bridges

CURBS

NOTES:

1. Case A driveway section typically applies.
2. X=3'-0" except for curb heights over 10" where 4:1 slopes shall be used on curb slope.
3. Sidewalk and ramp thickness "T" at driveway shall be 4" for residental and 6" for commercial.
4. Difference in slope of the driveway ramp and the slope of a line between the gutter and a point on the roadway 5'-0" from gutter line shall not exceed 15%. Reduce driveway ramp slope, not gutter slope, where required.
5. Minimum width of clear passageway for sidewalk shall be 4'-2".
6. Retaining curbs and acquisition of construction easement may be necessary for narrow sidewalks or curb heights in excess of 6".
7. Across the pedestrian route at curb ramp locations, the gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURBS AND DRIVEWAYS

NO SCALE

RSP A87A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A87A
DATED MAY 20, 2011 - PAGE 119 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A87A

2010 REVISED STANDARD PLAN RSP A87A

7-8-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	51	66

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Michael Janzen
No. 44788
Exp. 03-31-14
CIVIL
STATE OF CALIFORNIA

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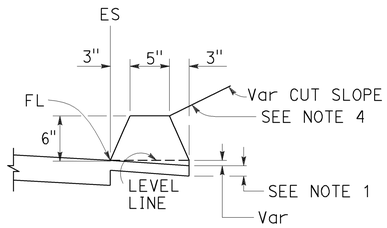
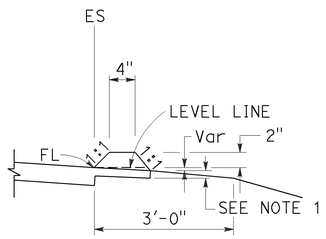
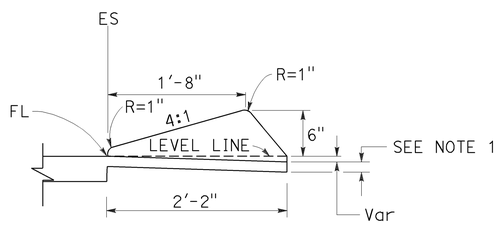
TO ACCOMPANY PLANS DATED 1-5-15



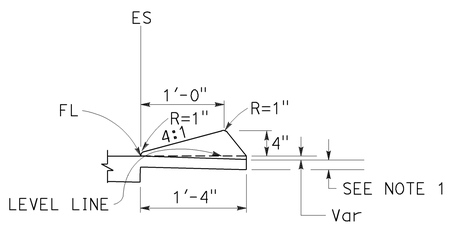
TYPE A
See Note 3



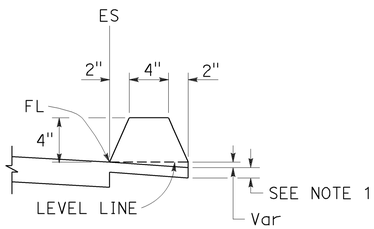
TYPE C



TYPE D

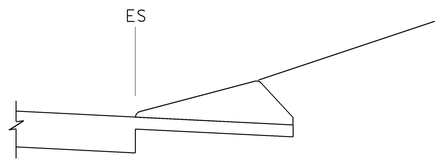


TYPE E

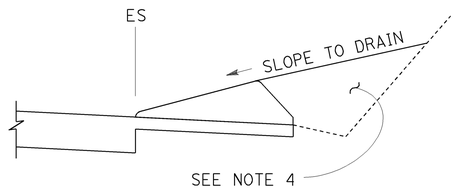


TYPE F
See Note 5

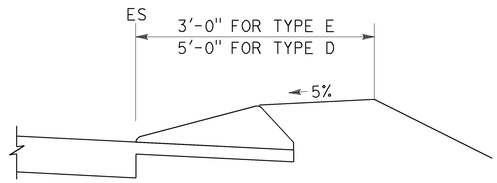
DIKES



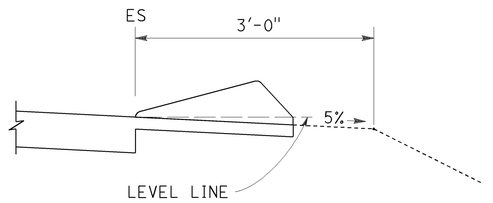
CASE C-1
Cut Slope



CASE C-2
Cut Slope



CASE F



CASE R
See Note 2

TYPE D AND E BACKFILL DETAILS

NOTES:

1. For HMA shoulders only, extend top layer of HMA placed on the shoulder under dike with no joint at the ES. For projects with OGFC shoulders, do not extend OGFC under dike. See project plans for modified dike detail.
2. Case R applies to retrofit only projects where restrictive conditions do not provide enough width for Case F backfill.
3. Type A dike only to be used where restrictive slope conditions do not provide enough width to use Type D or Type E dike.
4. Fill and compact with excavated material to top of dike.
5. Use Type F dike, where dike is required with guard railing installations. See Revised Standard Plan RSP A77N4 for dike positioning details.

DIKE QUANTITIES

TYPE	CUBIC YARDS PER LINEAR FOOT
A	0.0135
C	0.0038
D	0.0293
E	0.0130
F	0.0066

Quantities based on 5% cross slope.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT DIKES

NO SCALE

RSP A87B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A87B
DATED MAY 20, 2011 - PAGE 120 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A87B

6-27-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	52	66

Gregory A. Balzer
LICENSED LANDSCAPE ARCHITECT

July 19, 2013
PLANS APPROVAL DATE

Gregory A. Balzer 2576 — LICENSED LANDSCAPE ARCHITECT — STATE OF CALIFORNIA
Gregory A. Balzer
6-10-13
Renewal Date
2-28-15
Renewal Date
7-19-13
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.

TO ACCOMPANY PLANS DATED 1-5-15

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

NOTE:
For additional abbreviations, see Standard Plans A10A and A10B.

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

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

EXISTING	NEW	ITEM DESCRIPTION
		WATER METER (WM)
		BACKFLOW PREVENTER ASSEMBLY (BPA)
		BACKFLOW PREVENTER ENCLOSURE (BPE)
		BOOSTER PUMP (BP)
		TRUCK LOADING STANDPIPE (TLS)
	FS	FLOW SENSOR (FS)
X	X	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)
V	V	DRIP VALVE ASSEMBLY (DVA)
Y	Y	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.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	53	66

Gregory A. Balzer
LICENSED LANDSCAPE ARCHITECT

November 15, 2013
PLANS APPROVAL DATE

Gregory A. Balzer 2516
Gregory A. Balzer
6-30-15
2-28-15
Renewal Date
11-15-13
Date
LICENSED LANDSCAPE ARCHITECT
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 1-5-15

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

LANDSCAPE AND EROSION CONTROL SYMBOLS

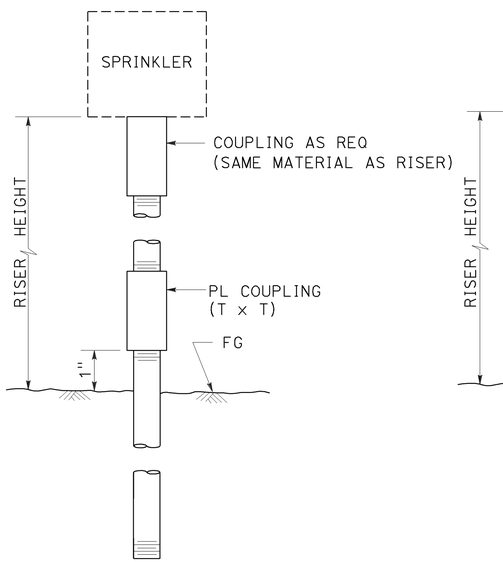
NO SCALE

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

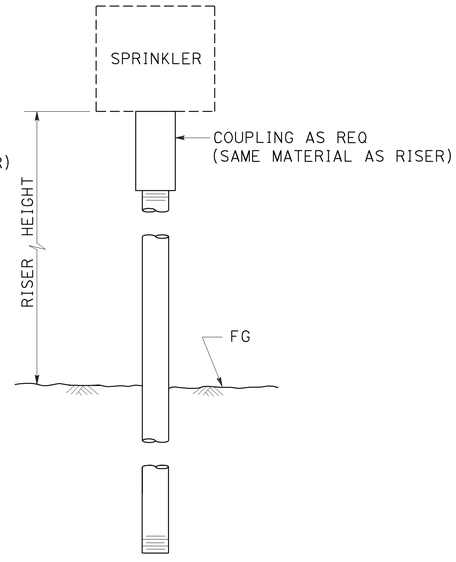
2010 REVISED STANDARD PLAN RSP H2

10-9-13



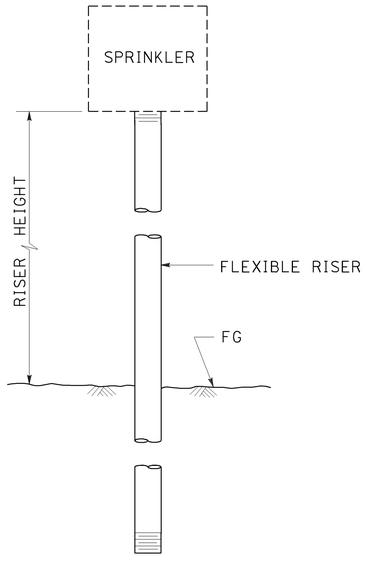
ELEVATION

RISER SPRINKLER
ASSEMBLY TYPE I



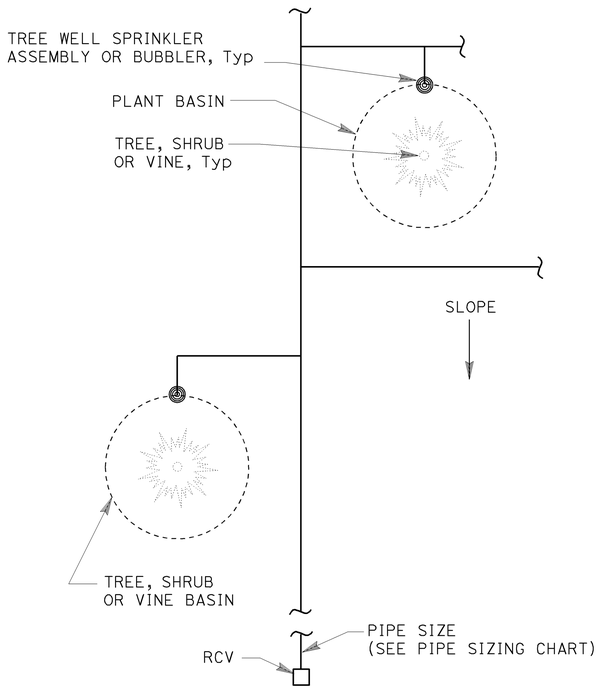
ELEVATION

RISER SPRINKLER
ASSEMBLY TYPE II

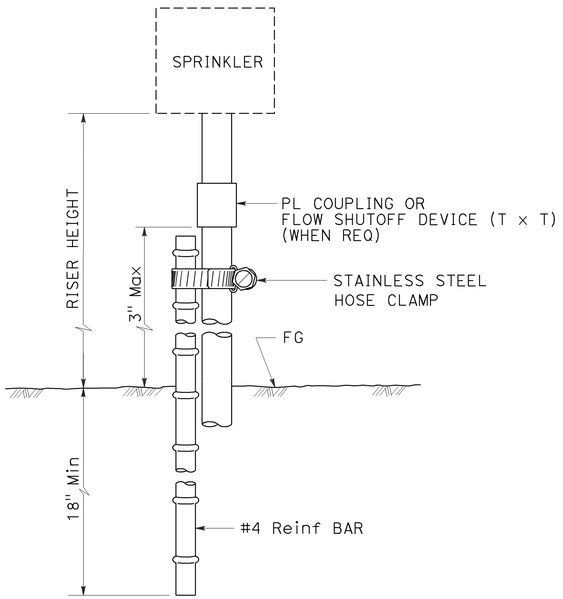


ELEVATION

RISER SPRINKLER
ASSEMBLY TYPE III

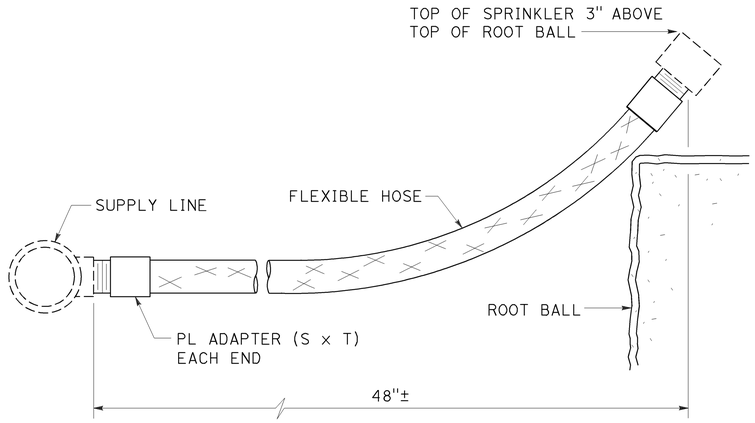


PLAN



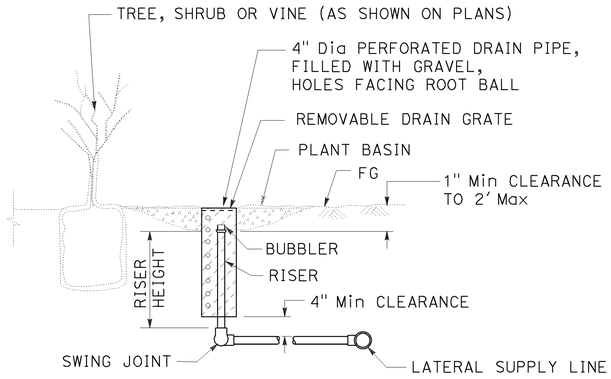
ELEVATION

RISER SPRINKLER
ASSEMBLY TYPE IV



ELEVATION

RISER SPRINKLER
ASSEMBLY TYPE V



SECTION

TREE WELL SPRINKLER ASSEMBLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	54	66

Gregory A Balzer
LICENSED LANDSCAPE ARCHITECT

July 19, 2013
PLANS APPROVAL DATE

Gregory A. Balzer 2576
LICENSED LANDSCAPE ARCHITECT
10-31-14
Renewal Date
2-28-15
Renewal Date
7-19-13
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 1-5-15

NOTES:

1. Install tree well sprinkler assembly on up-hill side of plant when on slope.
2. Install bubbler within basin.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

LANDSCAPE DETAILS

NO SCALE

RSP H5 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H5
DATED MAY 20, 2011 - PAGE 222 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H5

2010 REVISED STANDARD PLAN RSP H5

6-28-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	55	66

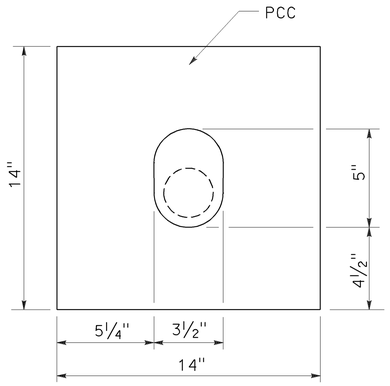
Gregory A. Balzer
LICENSED LANDSCAPE ARCHITECT

July 19, 2013
PLANS APPROVAL DATE

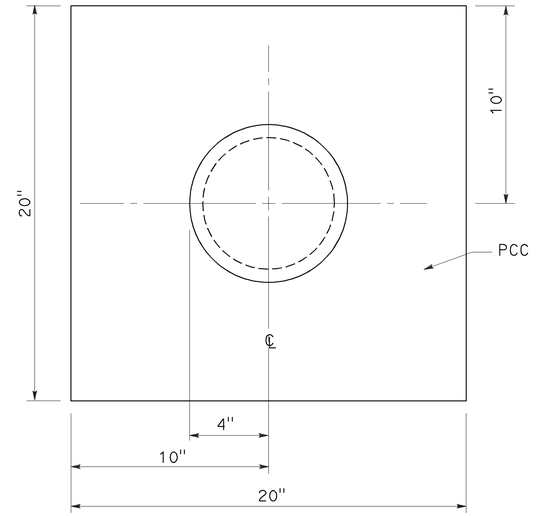
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LICENSED LANDSCAPE ARCHITECT
Gregory A. Balzer 2576
Gregory A. Balzer
6-30-15
Renewal Date
2-28-15
Renewal Date
7-19-13
Date
STATE OF CALIFORNIA

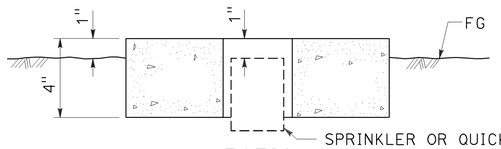
TO ACCOMPANY PLANS DATED 1-5-15



PLAN

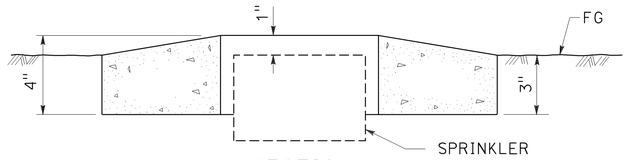


PLAN



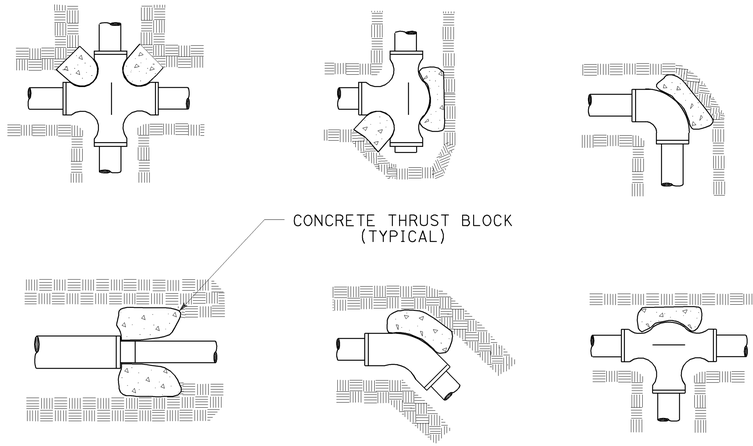
SECTION

SPRINKLER PROTECTOR TYPE I

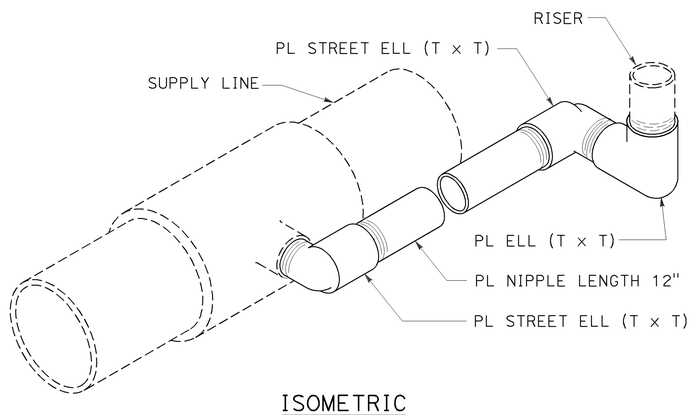


SECTION

SPRINKLER PROTECTOR TYPE II

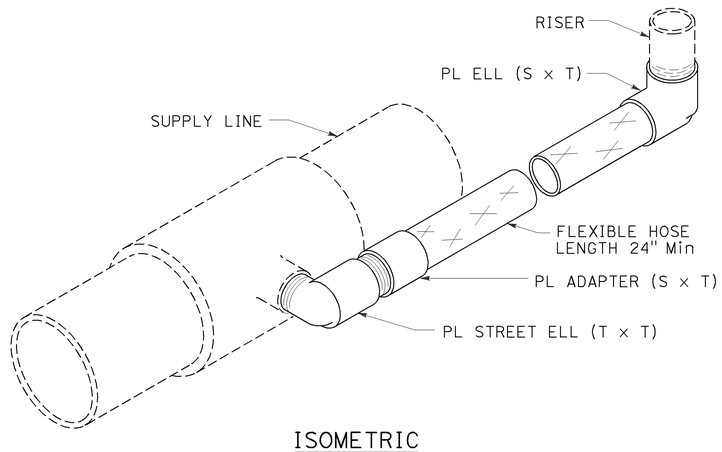


TYPICAL THRUST BLOCKS



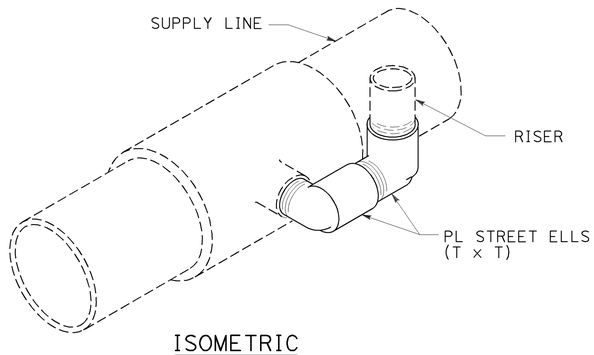
ISOMETRIC

POP-UP SPRINKLER ASSEMBLY TYPE I



ISOMETRIC

POP-UP SPRINKLER ASSEMBLY TYPE II



ISOMETRIC

POP-UP SPRINKLER ASSEMBLY TYPE III

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

LANDSCAPE DETAILS

NO SCALE

RSP H6 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H6
DATED MAY 20, 2011 - PAGE 223 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H6

2010 REVISED STANDARD PLAN RSP H6

6-28-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	56	66

Gregory A Balzer
LICENSED LANDSCAPE ARCHITECT

July 19, 2013
PLANS APPROVAL DATE

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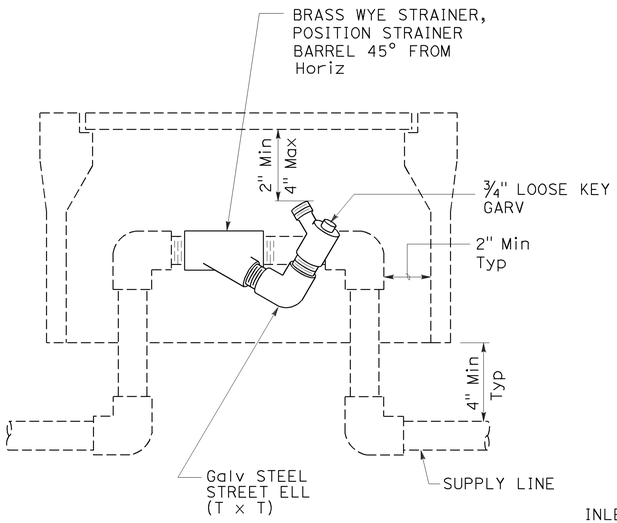
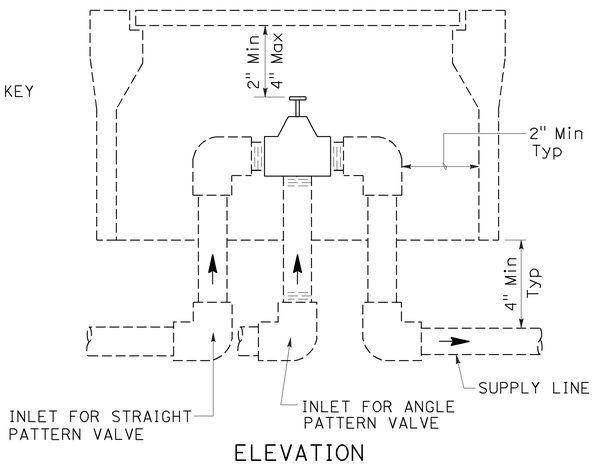
LICENSED LANDSCAPE ARCHITECT — Gregory A. Balzer 2576 — 6-30-14 — 2-28-15 — Renewal Date — 7-19-13 — Date — STATE OF CALIFORNIA

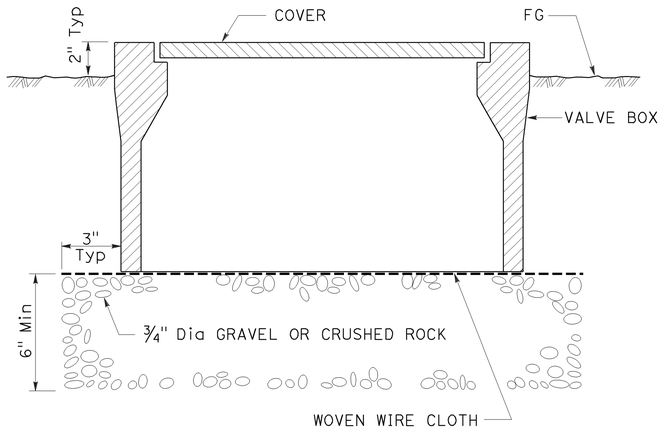
TO ACCOMPANY PLANS DATED 1-5-15



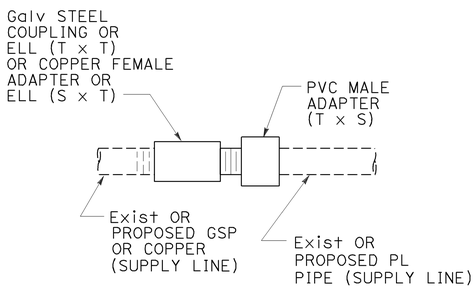
ELEVATION
WYE STRAINER ASSEMBLY



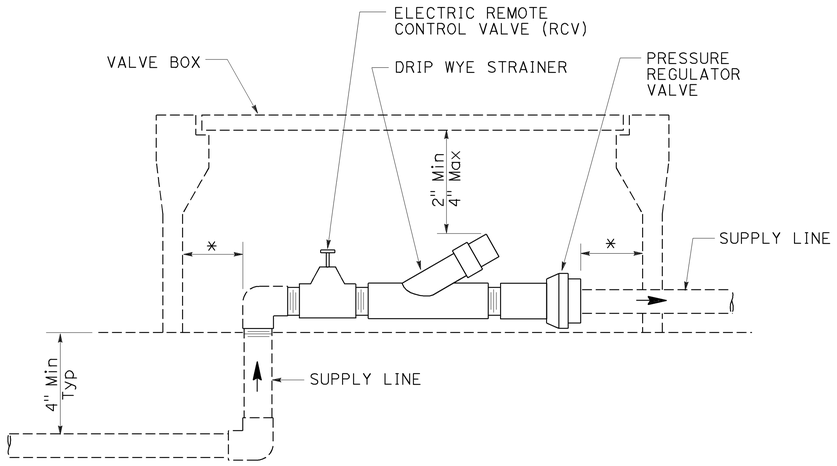
ELEVATION
VALVE



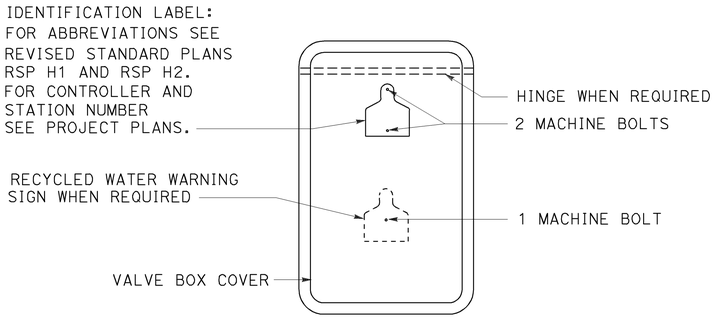
SECTION
VALVE BOX



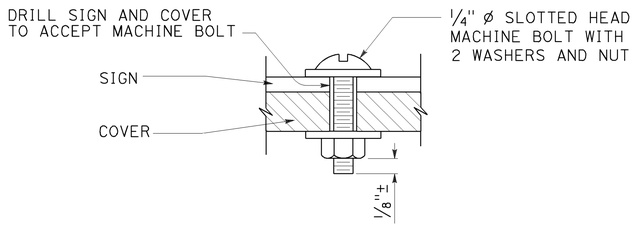
GALVANIZED OR COPPER PIPE CONNECTION TO PLASTIC PIPE



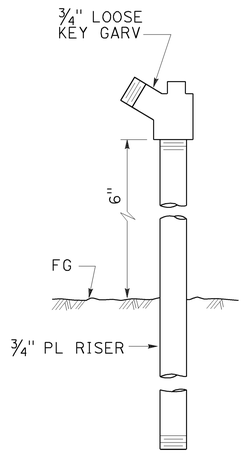
ELEVATION
DRIP VALVE ASSEMBLY



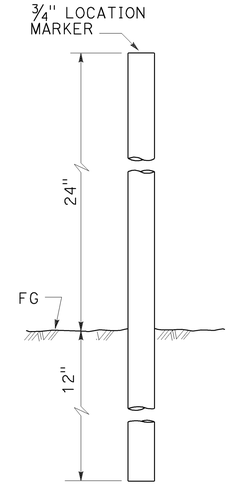
PLAN



SECTION
VALVE BOX IDENTIFICATION



ELEVATION
GARDEN VALVE ASSEMBLY



ELEVATION
LOCATION MARKER

GARDEN VALVE ASSEMBLY

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

LANDSCAPE DETAILS

NO SCALE

RSP H7 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H7 DATED MAY 20, 2011 - PAGE 224 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H7

2010 REVISED STANDARD PLAN RSP H7

6-20-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	57	66

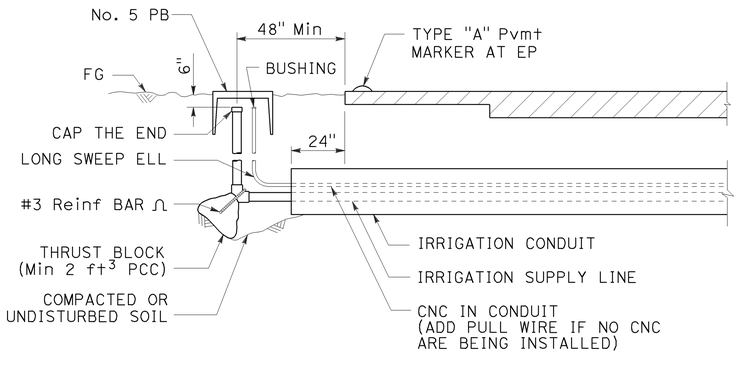
Gregory A. Balzer
LICENSED LANDSCAPE ARCHITECT

July 19, 2013
PLANS APPROVAL DATE

Gregory A. Balzer 2376 — LICENSED LANDSCAPE ARCHITECT — STATE OF CALIFORNIA
Gregory A. Balzer
6-19-13
Renewal Date
7-19-13
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.

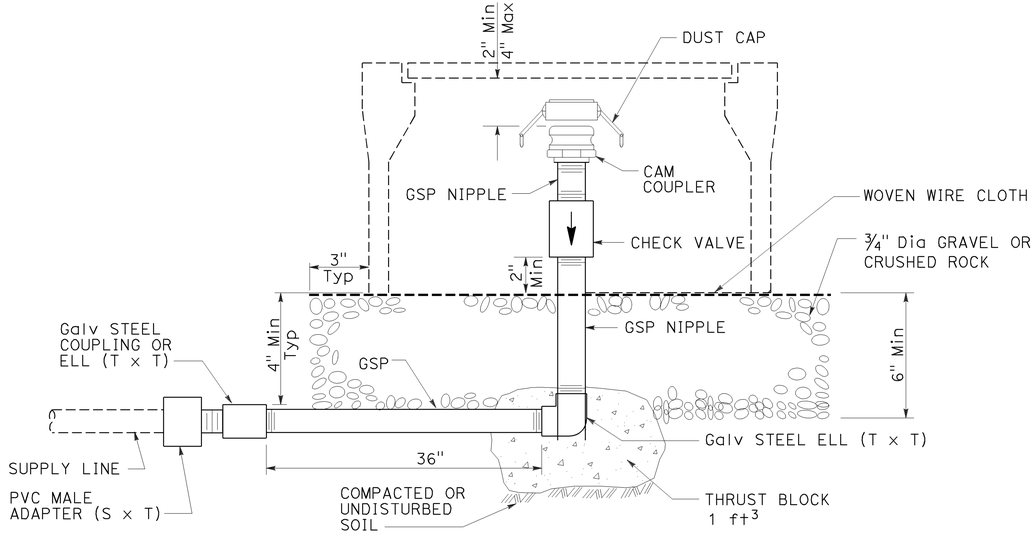
TO ACCOMPANY PLANS DATED 1-5-15



SECTION

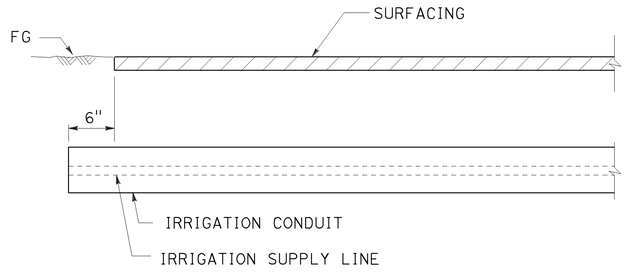
IRRIGATION CONDUIT

UNDER TRAVELED WAY



ELEVATION

CAM COUPLER ASSEMBLY



SECTION

IRRIGATION CONDUIT

UNDER SIDEWALKS, DRIVEWAYS AND PATHS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

LANDSCAPE DETAILS

NO SCALE

RSP H9 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H9
DATED MAY 20, 2011 - PAGE 226 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H9

2010 REVISED STANDARD PLAN RSP H9

6-28-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	58	66

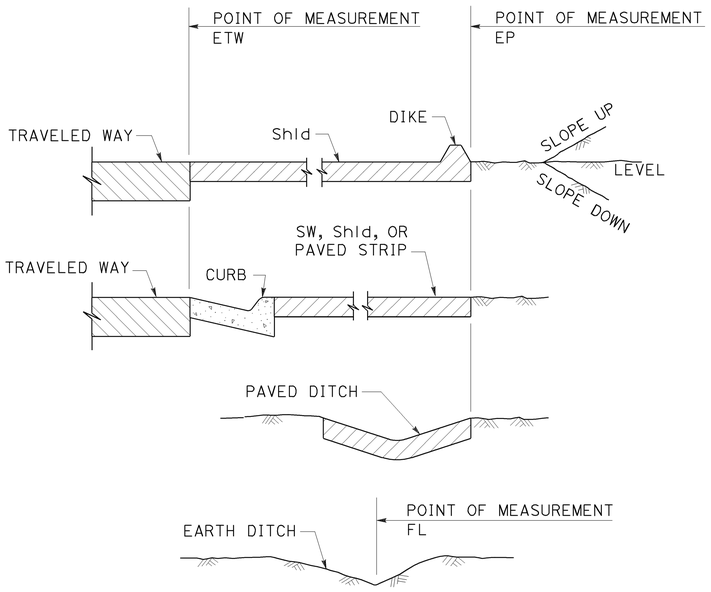
Gregory A. Balzer
LICENSED LANDSCAPE ARCHITECT

July 19, 2013
PLANS APPROVAL DATE

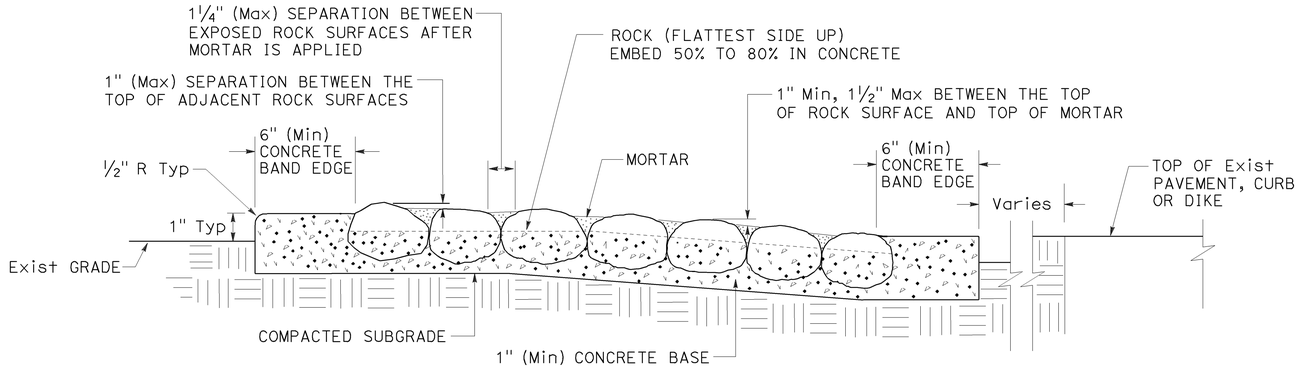
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LICENSED LANDSCAPE ARCHITECT
Gregory A. Balzer 2576
6-30-14
Date
2-28-15
Renewal Date
7-19-13
Date
STATE OF CALIFORNIA

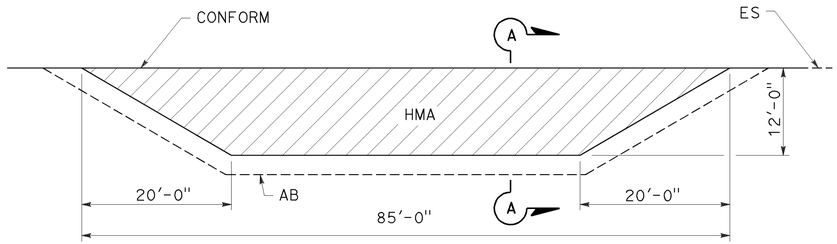
TO ACCOMPANY PLANS DATED 1-5-15



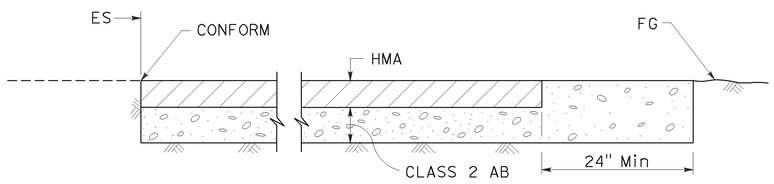
SECTION
POINTS OF MEASUREMENT



SECTION
ROCK BLANKET



PLAN



SECTION A-A
MAINTENANCE VEHICLE PULLOUT

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

LANDSCAPE DETAILS

NO SCALE

RSP H9A DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H9A

2010 REVISED STANDARD PLAN RSP H9A

6-21-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	59	66

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Gurinderpal Bhullar — No. C48815 — 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 1-5-15

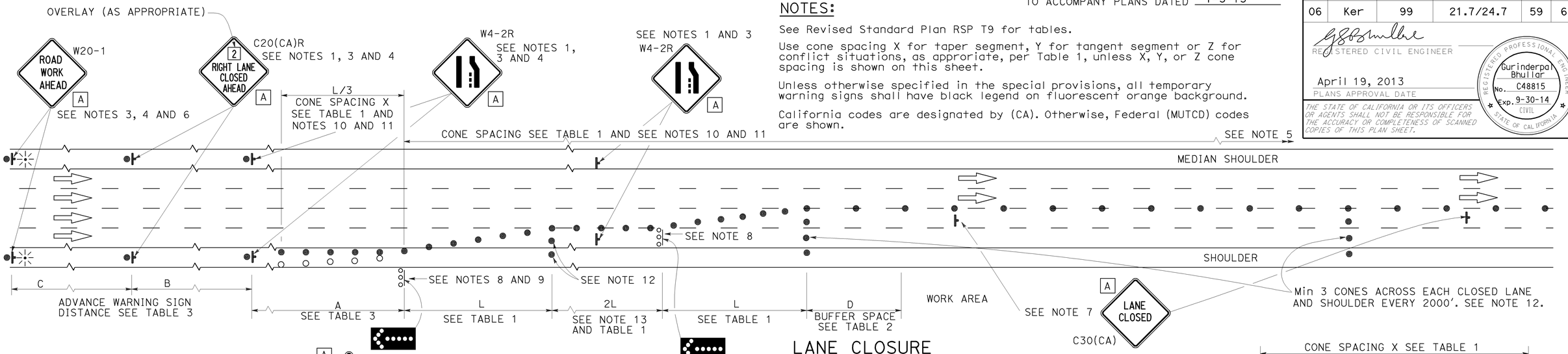
NOTES:

See Revised Standard Plan RSP T9 for tables.

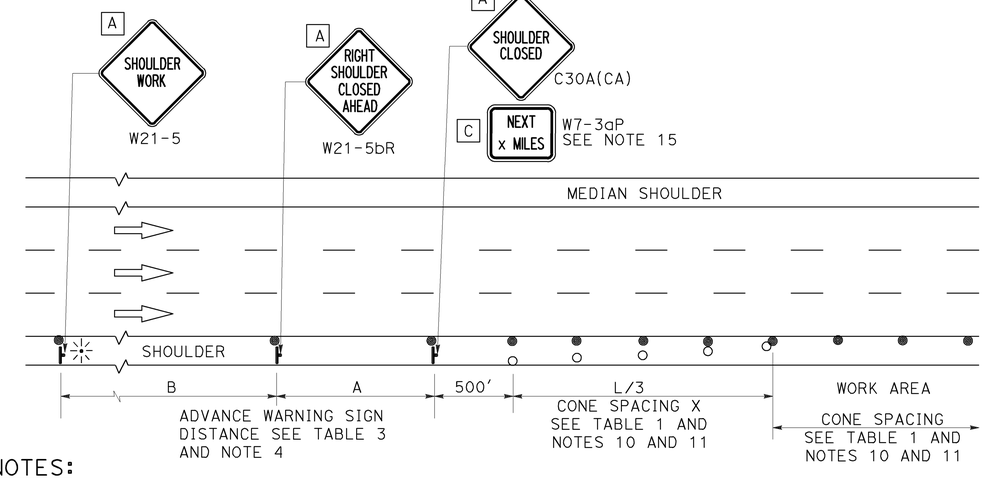
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

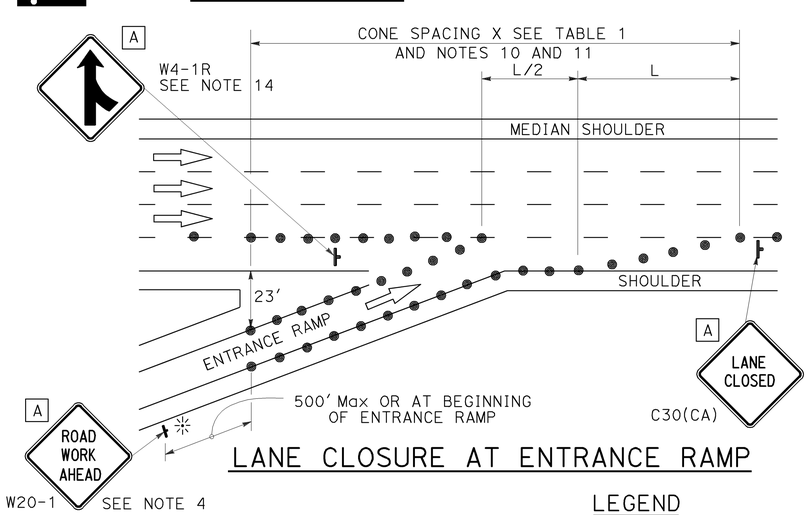
Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

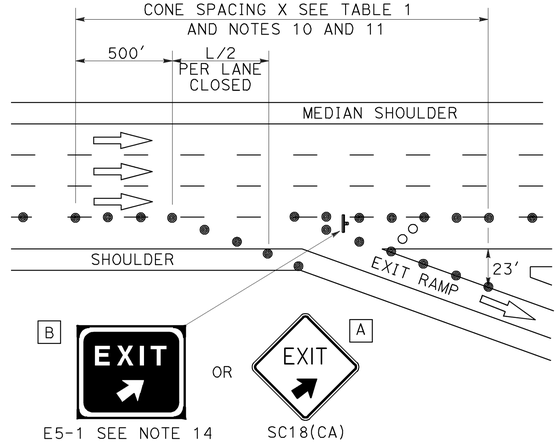


LANE CLOSURE





LANE CLOSURE AT ENTRANCE RAMP



LANE CLOSURE AT EXIT RAMP

NOTES:

1. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. Duplicate sign installations are not required:
   a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
   b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
4. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
5. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.

SHOULDER CLOSURE

6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
7. Place a C30(CA) sign every 2000' throughout length of lane closure.
8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
13. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
15. A W7-3aP "NEXT___MILES" plaque must be used if theshoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

A	48" x 48"
B	72" x 60"
C	36" x 30"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

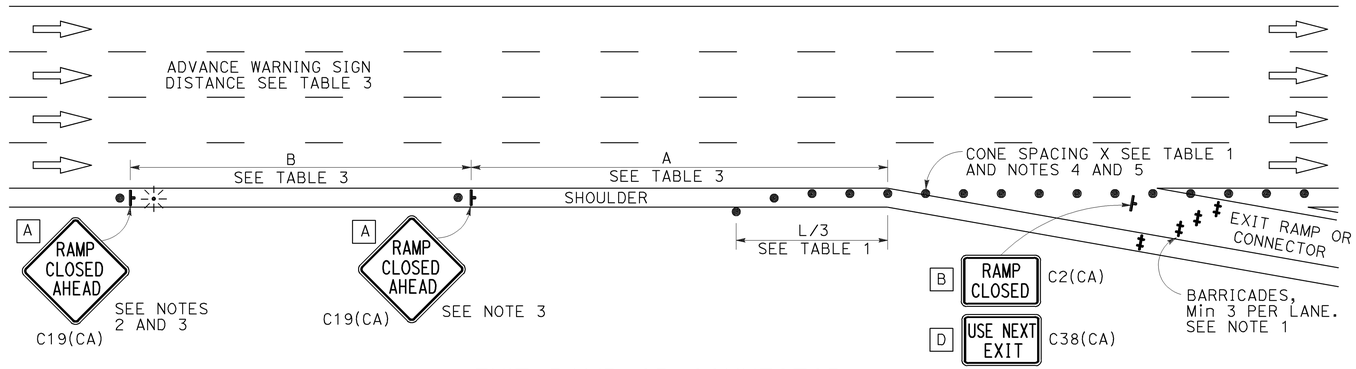
RSP T10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10

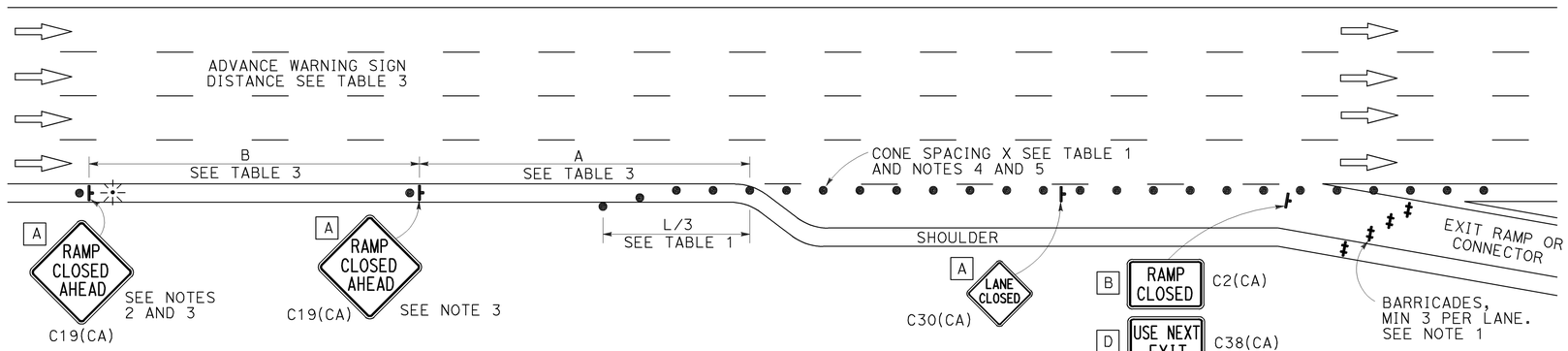
2010 REVISED STANDARD PLAN RSP T10

12-18-12

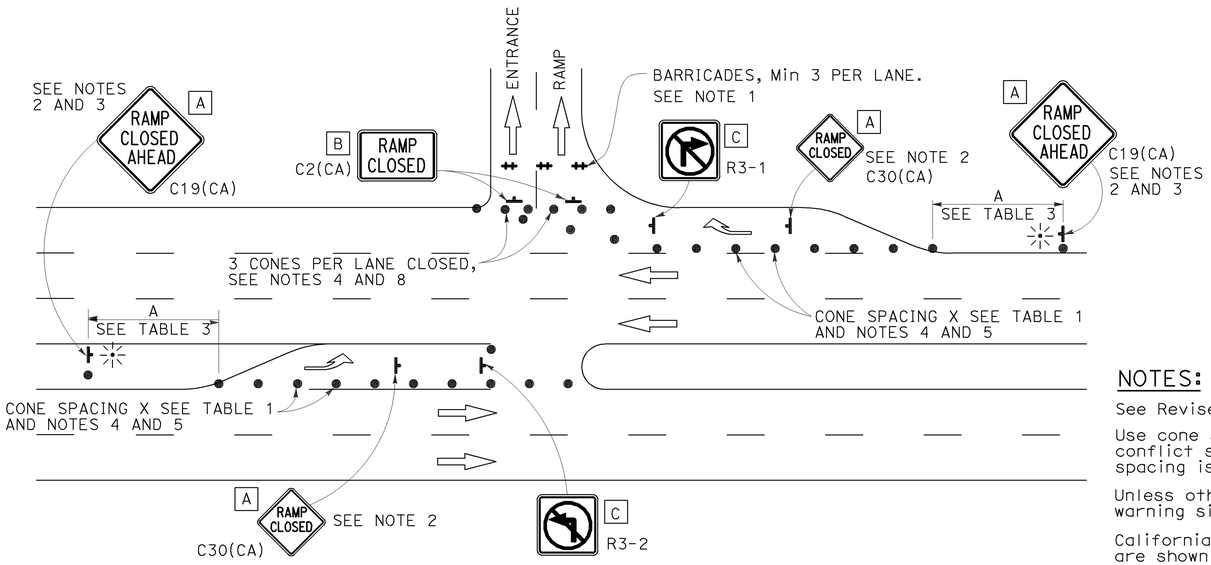
TYPICAL RAMP CLOSURES



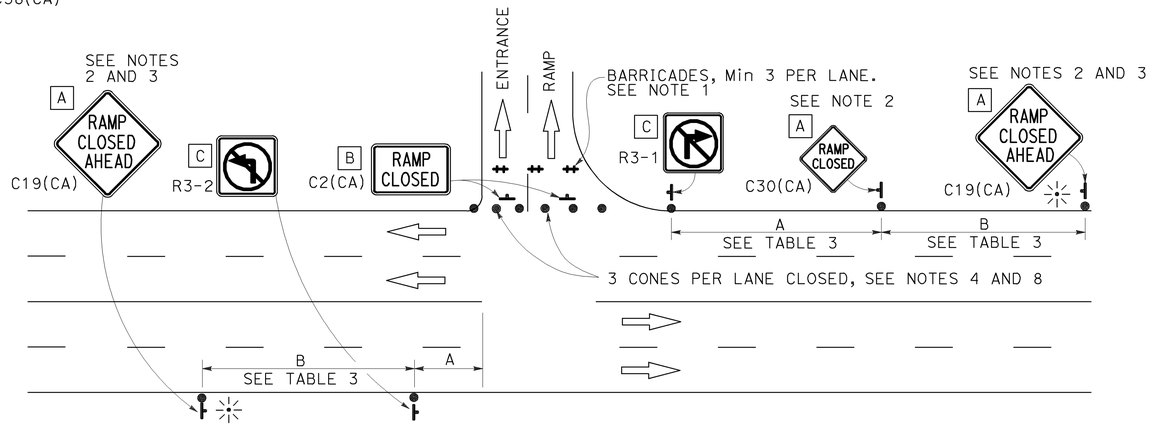
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

SIGN PANEL SIZE (Min)

A	48" × 48"
B	48" × 30"
C	36" × 36"
D	48" × 36"

LEGEND

- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- BARRICADES
- PORTABLE FLASHING BEACON

NOTES:

1. Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
2. In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed by the Engineer, on all guide signs that refer to the closed ramp. The letter size on the overlay shall be the same as the guide sign.
3. Each advance C19(CA) "RAMP CLOSED AHEAD" sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. A flashing beacon shall be placed on top of the first C19(CA) sign during hours of darkness.
4. All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
6. At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
7. The existing "EXIT" signs shall be covered during ramp closures.
8. A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.

NOTES:

See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	60	66

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Gurinderpal Bhullar
No. C48815
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 1-5-15

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

NO SCALE

RSP T14 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T14
DATED MAY 20, 2011 - PAGE 242 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T14

2010 REVISED STANDARD PLAN RSP T14

12-18-12

LEGEND:

AB	ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS
BC	INSTALL PULL BOX IN EXISTING CONDUIT RUN
BP	PEDESTRIAN BARRICADE, TYPE AS INDICATED ON PLAN
CB	INSTALL CONDUIT INTO EXISTING PULL BOX
CC	CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED
CF	CONDUIT TO REMAIN FOR FUTURE USE. REMOVE CONDUCTORS. INSTALL PULL TAPE
DH	DETECTOR HANDHOLE
FA	FOUNDATION TO BE ABANDONED
IS	INSTALL SIGN ON SIGNAL MAST ARM
NS	NO SLIP BASE ON STANDARD
PEC	PHOTOELECTRIC CONTROL
PEU	PHOTOELECTRIC UNIT
RC	EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR
RE	REMOVE ELECTROLIER, FUSES AND BALLAST. TAPE ENDS OF CONDUCTORS
RL	RELOCATE EQUIPMENT
RR	REMOVE AND REUSE EQUIPMENT
RS	REMOVE AND SALVAGE EQUIPMENT
SC	SPLICE NEW TO EXISTING CONDUCTORS
SD	SERVICE DISCONNECT
TSP	TELEPHONE SERVICE POINT

ABBREVIATIONS

APS	ACCESSIBLE PEDESTRIAN SIGNAL
BBS	BATTERY BACKUP SYSTEM
BC	BOLT CIRCLE
BPB	BICYCLE PUSH BUTTON
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
Ckt	CIRCUIT
CMS	CHANGEABLE MESSAGE SIGN
Ctid	CALTRANS IDENTIFICATION
Comm	COMMUNICATION
DLC	LOOP DETECTOR LEAD-IN CABLE
EMS	EXTINGUISHABLE MESSAGE SIGN
EVUC	EMERGENCY VEHICLE UNIT CABLE
EVUD	EMERGENCY VEHICLE UNIT DETECTOR
FB	FLASHING BEACON
FBCA	FLASHING BEACON CONTROL ASSEMBLY
FBS	FLASHING BEACON WITH SLIP BASE
FO	FIBER OPTIC
G	EQUIPMENT GROUNDING CONDUCTOR
GB	GROUND BUS
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HAR	HIGHWAY ADVISORY RADIO
Hex	HEXAGONAL
HPS	HIGH PRESSURE SODIUM
IISNS	INTERNALLY ILLUMINATED STREET NAME SIGN
ISL	INDUCTION SIGN LIGHTING
LED	LIGHT EMITTING DIODE
LMA	LUMINAIRE MAST ARM
LPS	LOW PRESSURE SODIUM
Ltg	LIGHTING
Lum	LUMINAIRE
M	METERED
MAT	MAST ARM MOUNTING TOP ATTACHMENT
MAS	MAST ARM MOUNTING SIDE ATTACHMENT
M/M	MULTIPLE TO MULTIPLE TRANSFORMER
Mtg	MOUNTING
MV	MERCURY VAPOR LIGHTING FIXTURE
MVDS	MICROWAVE VEHICLE DETECTION SYSTEM
N	NEUTRAL (GROUNDED CONDUCTOR)
NB	NEUTRAL BUS
NC	NORMALLY CLOSE
NO	NORMALLY OPEN
P	CIRCUIT BREAKER'S POLE
PB	PULL BOX
PBA	PUSH BUTTON ASSEMBLY
PEC	PHOTOELECTRIC CONTROL
Ped	PEDESTRIAN
PEU	PHOTOELECTRIC UNIT
PT	CONDUIT WITH PULL TAPE
RE	RELOCATED EQUIPMENT
RM	RAMP METERING
RWIS	ROADSIDE WEATHER INFORMATION SYSTEM
SB	SLIP BASE
SIC	SIGNAL INTERCONNECT CABLE
Sig	SIGNAL
SMA	SIGNAL MAST ARM
SNS	STREET NAME SIGN
SP	SERVICE POINT
TDC	TELEPHONE DEMARCATION CABINET
TMS	TRAFFIC MONITORING STATION
TOS	TRAFFIC OPERATIONS SYSTEM
Veh	VEHICLE
VIVDS	VIDEO IMAGE VEHICLE DETECTION SYSTEM
WIM	WEIGH-IN-MOTION
Xfmr	TRANSFORMER

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	61	66

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

Theresa Aziz Gabriel No. E15129 Exp. 6-30-14 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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.

TO ACCOMPANY PLANS DATED 1-5-15

SOFFIT AND WALL MOUNTED LUMINAIRES

- PENDANT, 70 W HPS UNLESS OTHERWISE SPECIFIED
- FLUSH, 70 W HPS UNLESS OTHERWISE SPECIFIED
- WALL SURFACE, 70 W HPS UNLESS OTHERWISE SPECIFIED
- EXISTING SOFFIT OR WALL LUMINAIRE TO REMAIN UNMODIFIED
- (M) EXISTING SOFFIT OR WALL LUMINAIRE TO BE MODIFIED AS SPECIFIED

NOTE:
Arrow indicates "street side" of luminaire.

COMMONLY USED SYMBOLS FOR UNITED STATES CUSTOMARY UNITS OF MEASUREMENT:

SYMBOL USED	DEFINITIONS
Ω	OHMS
min	MINUTE
s	SECOND
bps	BITS PER SECOND
Bps	BYTES PER SECOND
A	AMPERE
V	VOLT
$V_{(dc)}$	VOLT (DIRECT CURRENT)
$V_{(ac)}$	VOLT (ALTERNATING CURRENT)
FC	FOOT - CANDLE
W	WATTS
VA	VOLT-AMPERE
M	MEGA
k	KILO
m	MILLI
μ	MICRO
P	PICO
Hz	HERTZ

MISCELLANEOUS ELECTROLIERS

NEW	EXISTING	
		LUMINAIRE ON WOOD POLE
		NON-STANDARD ELECTROLIER (SEE PROJECT NOTES OR PROJECT PLANS)
		CITY ELECTROLIER
		ELECTROLIER FOUNDATION (FUTURE INSTALLATION)

NOTES:

1. HPS luminaires shall be 310 W HPS when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. HPS luminaires shall be 200 W when installed on other type standards or poles, unless otherwise specified.
2. LED luminaires shall be 235 W when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. LED luminaires shall be 165 W when installed on other type standards or poles, unless otherwise specified.
3. Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.

STANDARD ELECTROLIER

NEW	EXISTING	STANDARD TYPE
		15
		15D
		15 STRUCTURE
		15D STRUCTURE
		21
		21D
		21 STRUCTURE
		21D STRUCTURE
		30
		31
		32

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1A DATED MAY 20, 2011 - PAGE 425 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1A

2010 REVISED STANDARD PLAN RSP ES-1A

7-15-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	62	66

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

Theresa Aziz Gabriel No. E15129 Exp. 6-30-14 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

July 19, 2013
PLANS APPROVAL DATE

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TO ACCOMPANY PLANS DATED 1-5-15

CONDUIT

NEW	EXISTING	
		LIGHTING CONDUIT, UNLESS OTHERWISE INDICATED OR NOTED
		TRAFFIC SIGNAL CONDUIT
C	c	COMMUNICATION CONDUIT
T	t	TELEPHONE CONDUIT
F	f	FIRE ALARM CONDUIT
FO	fo	FIBER OPTIC CONDUIT
		CONDUIT TERMINATION
R	r	CONDUIT RISER ATTACHED TO THE STRUCTURE OR SERVICE POLE

SERVICE EQUIPMENT

NEW	EXISTING	
OH	oh	OVERHEAD LINES
U	U	WOOD POLE, "U" INDICATES UTILITY OWNED
		POLE GUY WITH ANCHOR
		UTILITY TRANSFORMER - GROUND MOUNTED
III	III	SERVICE EQUIPMENT ENCLOSURE TYPE. DOOR INDICATES FRONT OF ENCLOSURE
T	t	TELEPHONE DEMARCATION CABINET

POLE-MOUNTED SERVICE DESIGNATION

TYPE H SERVICE, 28'-10" — TYPE OF INSTALLATION AND POLE HEIGHT ABOVE GRADE

FLASHING BEACON

NEW	EXISTING	
R	R	FLASHING BEACON (ONE VEHICLE SIGNAL HEAD WITH BACKPLATE AND VISOR) "R" INDICATES RED INDICATION, "Y" INDICATES YELLOW INDICATION
Y Y	Y Y	FLASHING BEACON WITH TYPE 15-FBS STANDARD AND A SIGN.
R R	R R	FLASHING BEACON WITH TYPES 9, 9A OR 9B SIGN UNLESS OTHERWISE SPECIFIED OR INDICATED

SIGNAL EQUIPMENT

NEW	EXISTING	
C	C	PEDESTRIAN SIGNAL HEAD "C" INDICATES COUNTDOWN PEDESTRIAN HEAD
		PUSH BUTTON ASSEMBLY POST
		PEDESTRIAN BARRICADE
		VEHICLE SIGNAL HEAD (WITH BACKPLATE AND 3-SECTIONS: RED, YELLOW AND GREEN)
		VEHICLE SIGNAL HEAD WITH ANGLE VISOR
PV	PV	MODIFICATIONS OF BASIC SYMBOL: "L" INDICATES ALL NON-ARROW SECTIONS LOUVERED "LG" INDICATES LOUVERED GREEN SECTION ONLY "PV" INDICATES ALL 12" SECTIONS PROGRAMMED VISIBILITY "8" INDICATES ALL 8" SECTIONS (ONLY WHEN SPECIFIED)
		VEHICLE SIGNAL HEAD CONSISTING OF RED, YELLOW AND GREEN LEFT ARROW SECTIONS
		VEHICLE SIGNAL HEAD CONSISTING OF RED AND YELLOW SECTIONS WITH AN UP GREEN ARROW SECTION
		VEHICLE SIGNAL HEAD (5 SECTION) CONSISTING OF RED, YELLOW AND GREEN SECTIONS WITH YELLOW AND GREEN RIGHT ARROW SECTIONS
		TYPE 15TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		TYPE 21TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		STANDARD WITH LUMINAIRE AND SIGNAL MAST ARMS AND ATTACHED VEHICLE SIGNAL HEADS
		TYPE 1 STANDARD WITH ATTACHED VEHICLE SIGNAL HEADS
		STANDARD WITH A SIGNAL MAST ARM, ATTACHED VEHICLE SIGNAL HEADS AND INTERNALLY ILLUMINATED STREET NAME SIGN
		CONTROLLER ASSEMBLY. DOOR INDICATES FRONT OF CABINET

SIGNAL EQUIPMENT Cont

NEW	EXISTING	
		GUARD POST
		TYPE 1 STANDARD WITH RAMP METERING SIGN
		OPTICAL DETECTOR FOR THE EMERGENCY VEHICLE DETECTION SYSTEM

NOTES:

1. All signal sections shall be 12" unless shown otherwise.
2. Signal heads shall be provided with backplates unless shown otherwise.

ILLUMINATED OVERHEAD SIGN

NEW	EXISTING	
		SINGLE POST, SINGLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, DOUBLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, SINGLE ILLUMINATED SIGN, FULL CANTILEVER
		DOUBLE POST, SINGLE ILLUMINATED SIGN
		SINGLE ILLUMINATED SIGN MOUNTED ON STRUCTURE
		DOUBLE POST, SINGLE ILLUMINATED SIGN WITH ELECTROLIER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1B DATED MAY 20, 2011 - PAGE 426 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1B

2010 REVISED STANDARD PLAN RSP ES-1B

7-15-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	63	66

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

Theresa Aziz Gabriel No. E15129 Exp. 6-30-14 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

July 19, 2013
PLANS APPROVAL DATE

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TO ACCOMPANY PLANS DATED 1-5-15

EQUIPMENT IDENTIFICATION

ILLUMINATED SIGN IDENTIFICATION NUMBER:

SIGN No. 12345
10 ISL SCI 1.0

- SIGN NUMBER - PLACE ON POST OR STRUCTURE
- TRANSFORMER RATING (kVA)
- LIGHTING CONTROL TYPE
- NUMBER AND TYPE OF FIXTURES

DO NOT PLACE ON STANDARD OR STRUCTURE

ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:

12345 - 15'-0"

- MAST ARM LENGTH, IF SHOWN. DO NOT PLACE ON STANDARD OR STRUCTURE
- EQUIPMENT NUMBER - PLACE ON STANDARD OR STRUCTURE. EXISTING EQUIPMENT NUMBERS ARE SHOWN IN PARENTHESIS

CONDUIT AND CONDUCTOR IDENTIFICATION:

1½"C, 2#10, 15#14, 2 DLC, 12P#18

- PAIR
- NUMBER AND SIZE OF CONDUCTORS AND CABLES
- SIZE OF CONDUIT IN INCHES

ø1, ø2, ø2P, etc. — TRAFFIC PHASE IDENTIFICATION FOR SIGNAL FACES, DETECTORS AND PHASE DIAGRAMS

[1] [2] [3] — LEGEND NUMBERS

(A) (B) (C) — EQUIPMENT, SIGNAL POLES, INSTALLATION OR ITEMS

1 2 3 — CONDUIT RUN NUMBERS

SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):

19A - 3 - 100

- WIND VELOCITY = 100 mph
- CASE 3 ARM LOADING
- STANDARD TYPE
- STANDARD PLAN SHEET NUMBER
- DETAIL, NUMBER, SECTION, TYPE OR ELEVATION

MISCELLANEOUS EQUIPMENT

NEW	EXISTING	
CMS	cms	CHANGEABLE MESSAGE SIGN
		CLOSED CIRCUIT TELEVISION CAMERA
		HIGHWAY ADVISORY RADIO POLE AND ANTENNA
EMS	ems	EXTINGUISHABLE MESSAGE SIGN
M V	m v	DETECTION DEVICE M = MICROWAVE SENSOR V = VIDEO IMAGE SENSOR

WIRING DIAGRAM LEGEND

- EXTERNAL CONDUCTOR
- CONDUCTOR OR BUS
- TIE POINT
- CONTACTOR COIL
- CONTACTOR, NO CONTACT
- TERMINAL BLOCKS
- CONTACTOR, NC CONTACT
- ENCLOSURE BOND
- GROUNDING ELECTRODE
- CIRCUIT BREAKER
- RECEPTACLE

PULL BOXES

NEW	EXISTING	
		PULL BOX, No. 5 UNLESS OTHERWISE INDICATED OR NOTED
3	9A(21)	PULL BOX, ADDITIONAL DESIGNATIONS OR DESCRIPTIONS

3 No. 3½ PULL BOX
5 No. 5 PULL BOX
6 No. 6 PULL BOX
7 No. 7 (CEILING PULL BOX)
8 No. 8 (PENDANT SOFFIT PULL BOX)
9 No. 9 PULL BOX
9A No. 9A PULL BOX

(C) COMMUNICATIONS PULL BOX
(E) PULL BOX WITH EXTENSION
(S) SPRINKLER CONTROL PULL BOX
(21) ANCHOR BOLTS AND CONDUIT FOR FUTURE INSTALLATION OF TYPE 21 STANDARD
(T) TRAFFIC PULL BOX

VEHICLE DETECTORS

5 J 9 U

- VEHICLE DETECTOR DESIGNATION
- U = UPPER, L = LOWER
- SLOT NUMBER IN INPUT FILE
- INPUT FILE (I OR J)
- PHASE

NEW	EXISTING	
		TYPE A DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		TYPE B DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		TYPE C DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		TYPE D DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		TYPE E DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		TYPE Q DETECTOR LOOP. OUTLINE OF SAWCUT SHOWN
		MAGNETIC DETECTOR
DH	dh	DETECTOR HANDHOLE
		MICROWAVE OR VIDEO DETECTION ZONE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1C DATED MAY 20, 2011 - PAGE 427 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1C

2010 REVISED STANDARD PLAN RSP ES-1C

7-11-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	64	66

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

Theresa Aziz Gabriel
No. E15129
Exp. 6-30-14
ELECTRICAL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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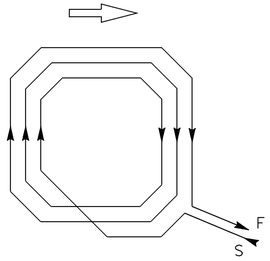
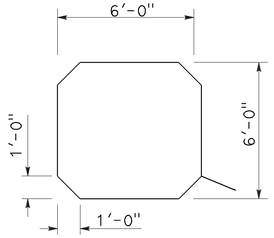
TO ACCOMPANY PLANS DATED 1-5-15

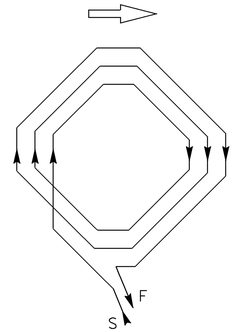


WINDING DETAIL



SAWCUT DETAIL

TYPE A LOOP DETECTOR CONFIGURATION



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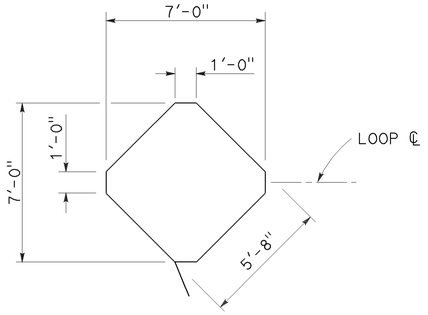
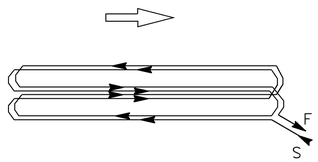
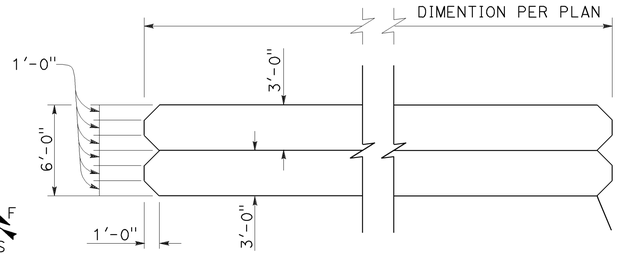


SAWCUT DETAIL

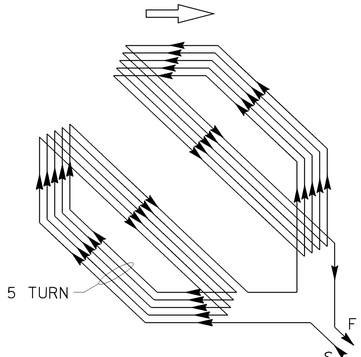
TYPE B LOOP DETECTOR CONFIGURATION

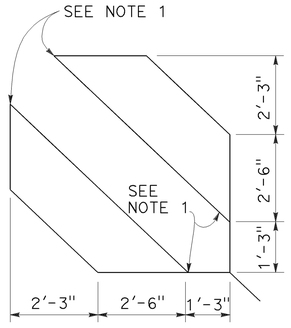




WINDING DETAIL SAWCUT DETAIL

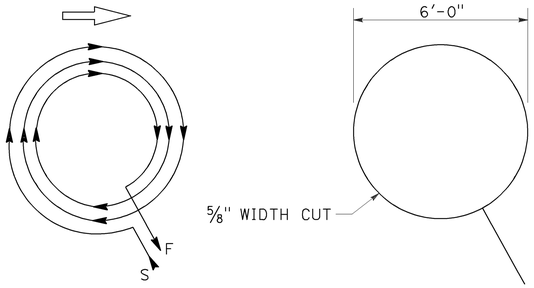
TYPE C LOOP DETECTOR CONFIGURATION





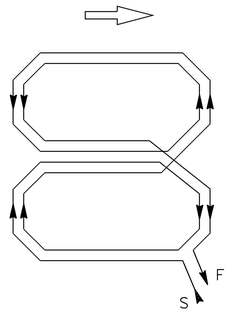
WINDING DETAIL SAWCUT DETAIL

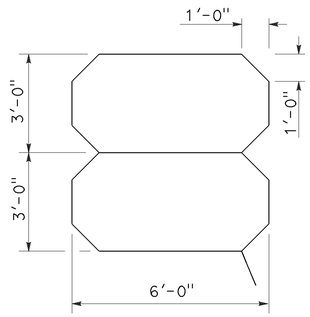
TYPE D LOOP DETECTOR CONFIGURATION



WINDING DETAIL SAWCUT DETAIL

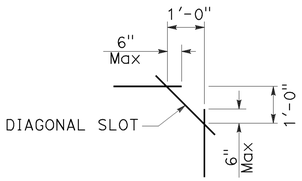
TYPE E LOOP DETECTOR CONFIGURATION





WINDING DETAIL SAWCUT DETAIL

TYPE Q LOOP DETECTOR CONFIGURATION



PLAN VIEW OF DIAGONAL SLOT AT CORNERS

NOTES:

1. Round corners of acute angle sawcuts to prevent damage to conductors.
2. Typical distance separating loops from edge to edge is 10' for Type A, B, D and E installation in single lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (DETECTORS)

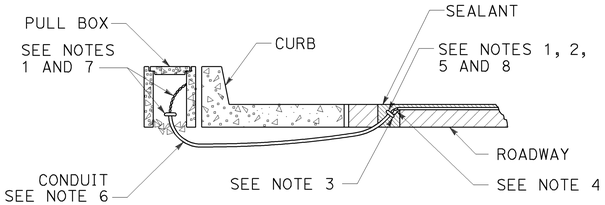
NO SCALE

RSP ES-5B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-5B DATED MAY 20, 2011 - PAGE 449 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-5B

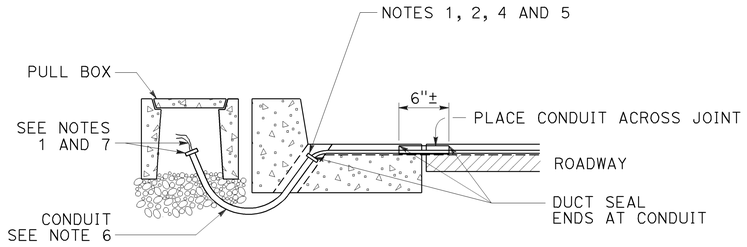
2010 REVISED STANDARD PLAN RSP ES-5B

7-9-13

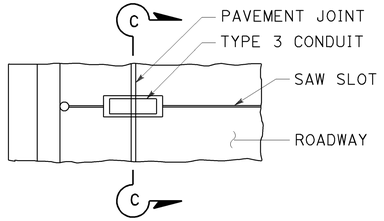


TYPE A

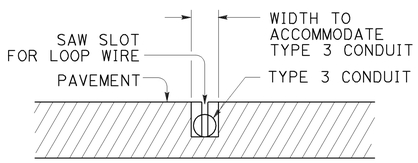
CURB TERMINATION DETAIL



CROSS SECTION



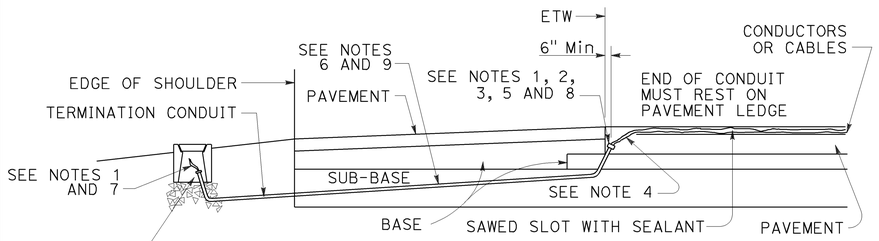
PLAN VIEW



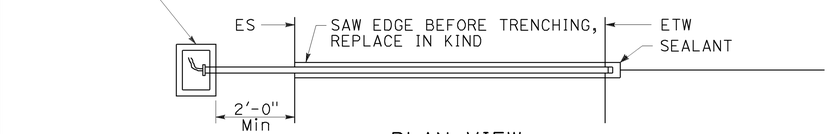
SECTION C-C

TYPE B

CURB TERMINATION DETAIL

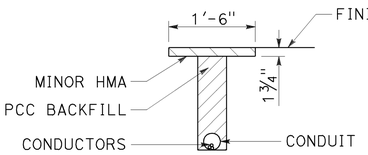


CROSS SECTION

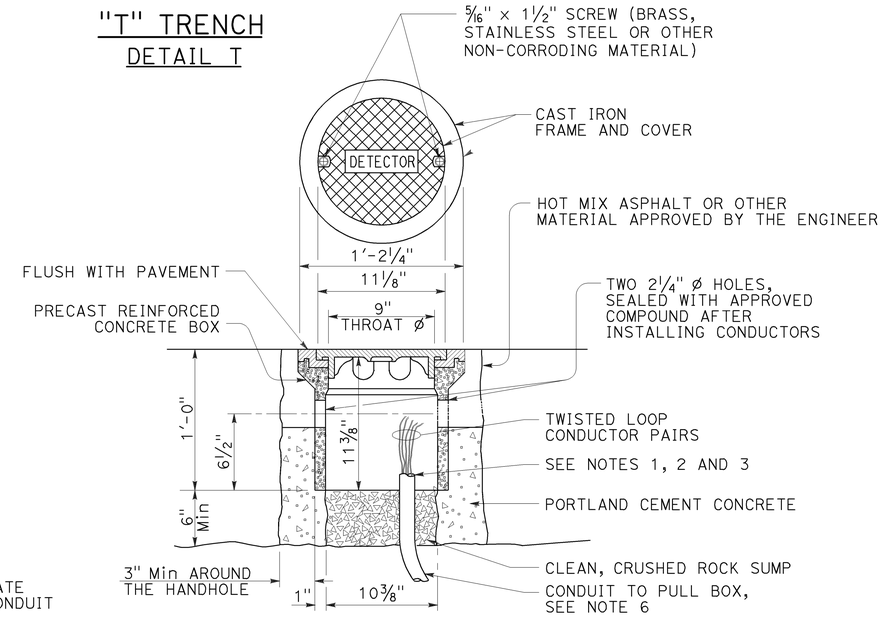


PLAN VIEW

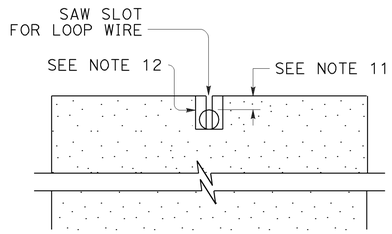
SHOULDER TERMINATION DETAILS



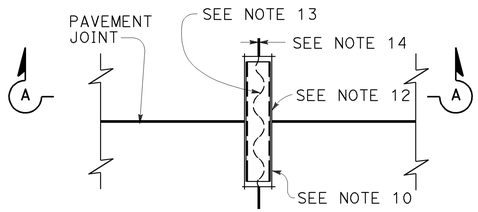
"T" TRENCH DETAIL T



DETECTOR HANDHOLE DETAIL

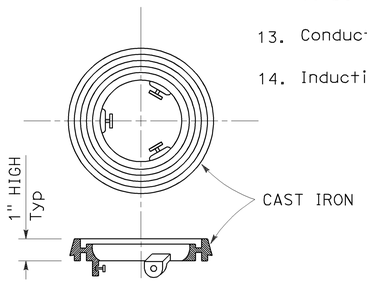


SECTION A-A



PLAN VIEW

TYPICAL LOOP LEAD-IN DETAIL AT PAVEMENT JOINT



LOCKING GRADE RING

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ker	99	21.7/24.7	65	66

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

Theresa Aziz Gabriel No. E15129 Exp. 6-30-14 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 1-5-15

NOTES:

1. Bushing shall be used at end of conduit.
2. Tape detector conductors or cables 3" each side of bushings.
3. Install duct seal compound to each end of termination conduit before installing sealant.
4. Round all sharp edges where detector conductors or cables have to pass.
5. End of conduit shall be 3⅛" below roadway surface.
6.

Conduit size	Loop conductors
1"C minimum	1 to 2 pairs
1½"C minimum	3 to 4 pairs
2"C minimum	5 or more pairs

7. Splice detector conductors or cables to detector lead-in-cable.
8. Location of detector handhole when shown on plans.
9. When the shoulder and traveled way are paved with the same material and there is no joint between them, the conduit shall extend only 2'-0" into the shoulder pavement.
10. ¾"C, Type 3 conduit 6" long minimum, plug both ends with duct compound to keep out sealant.
11. ½" Minimum between top of conduit and pavement surface.
12. Sawcut shall not exceed 1" in width and ⅛" longer than conduit to be installed.
13. Conductors with ½" minimum slack inside conduit.
14. Inductive loop detector saw slot.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (CURB TERMINATION AND HANDHOLE)

NO SCALE

RSP ES-5D DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-5D
DATED MAY 20, 2011 - PAGE 451 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-5D

2010 REVISED STANDARD PLAN RSP ES-5D

7-9-13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Ker	99	21.7/24.7	66	66

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Theresa Aziz Gabriel
No. E15129
Exp. 6-30-14
ELECTRICAL
STATE OF CALIFORNIA

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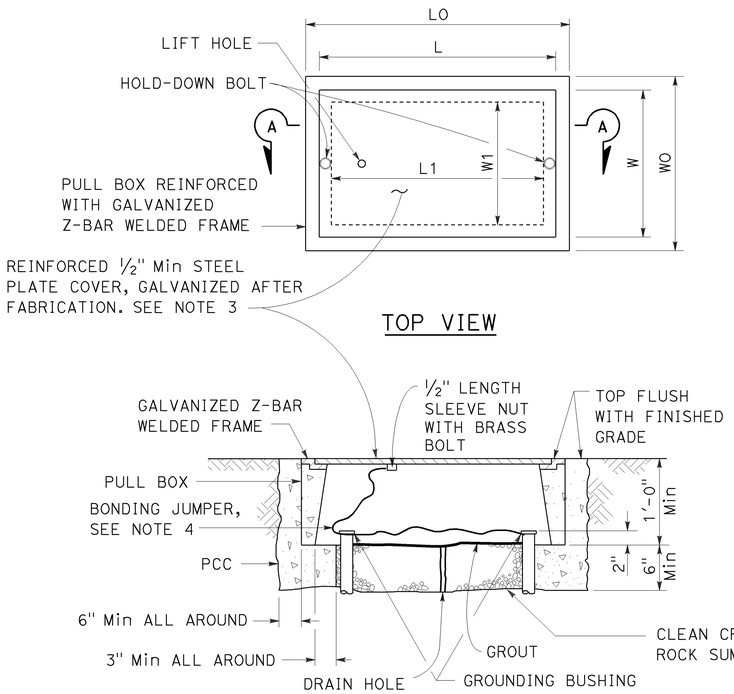
TO ACCOMPANY PLANS DATED 1-5-15



SECTION A-A

No. 3½(T), No. 5(T) AND No. 6(T) TRAFFIC PULL BOX

NOTES:

1. Traffic pull box shall be provided with steel cover and special concrete footing. Steel cover shall have embossed non-skid pattern.
2. Steel reinforcing shall be as regularly used in the standard products of the respective manufacturer.
3. Pull box covers shall be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" Sprinkler control circuits, 50 V or less; "CALTRANS" On all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service.
   A) No. 3½(T) pull box.
      1) "SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
      2) "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
   B) No. 5(T) or 6(T) pull box.
      1) "TRAFFIC SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
      2) "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
      3) "LIGHTING-HIGH VOLTAGE" - Lighting or sign lighting circuits where voltage is above 600 V.
      4) "IRRIGATION" - Circuits to irrigation controller 120 V or more.
      5) "RAMP METER" - Ramp meter circuits.
      6) "COUNT STATION" - Count or speed monitor circuits.
      7) "COMMUNICATION" - Communication circuits.
      8) "TOS COMMUNICATIONS" - TOS communications line.
      9) "TOS POWER" - TOS power.
      10) "TDC POWER" - Telephone demarcation cabinet power.
      11) "CCTV" - Closed circuit television circuits.
      12) "TMS" - Traffic monitoring station circuits.
      13) "CMS" - Changeable message sign circuits.
      14) "HAR" - Highway advisory radio circuits.
      15) "BOOSTER PUMP" - Booster pump circuit.
4. Bonding jumper for metal covers shall be 3' long, minimum.
5. The nominal dimensions of the opening in which the cover sets shall be the same as the cover dimensions except the length and width dimensions shall be ⅛" greater.
6. Covers and boxes shall be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces shall be flush within ⅛".

DIMENSION TABLE

PULL BOX	PULL BOX						COVER				
	MINIMUM * THICKNESS	MINIMUM DEPTH BOX AND EXTENSION	WO	LO	L1	W1	L **	W **	R	EDGE THICKNESS	EDGE TAPER
No. 3½(T)	1½"	1'-0"	1'-5"± 1"	1'-8⅞"±	1'-2½"±	10⅝"± 1"	1'-8"±	1'-1¾"±	0"	½"	NONE
No. 5(T)	1¾"	1'-0"	1'-11½"± 1"	2'-5½"±	1'-7"±	1'-1"± 1"	2'-3"±	1'-4"±	0"	½"	NONE
No. 6(T)	2"	1'-0"	2'-6"± 1"	2'-11½"±	1'-11½"±	1'-5"± 1"	2'-9"±	1'-8"±	0"	½"	NONE

* EXCLUDING CONDUIT WEB ** TOP DIMENSION

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (TRAFFIC PULL BOX)

NO SCALE

RSP ES-8B DATED JULY 19, 2013 SUPERSEDES RSP ES-8B DATED JANUARY 20, 2012 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-8B

2010 REVISED STANDARD PLAN RSP ES-8B

7-15-13