Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.9/R77.6	1	32

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3-9	CONSTRUCTION DETAILS AND PAVEMENT DELINEATION PLANS
10	CONSTRUCTION AREA SIGNS
11-18	DETOUR PLANS
19	PAVEMENT DELINEATION QUANTITIES
20	SUMMARY OF QUANTITIES AND CONSTRUCTION DETAILS
21-24	ELECTRICAL PLANS
25-28	TRAFFIC CONTROL SYSTEM
29-32	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

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN MONTEREY COUNTY
IN AND NEAR MONTEREY AT VARIOUS LOCATIONS
FROM 0.2 MILE SOUTH OF SOUTH JUNCTION ROUTE 68
TO 0.6 MILE SOUTH OF NORTH JUNCTION ROUTE 68

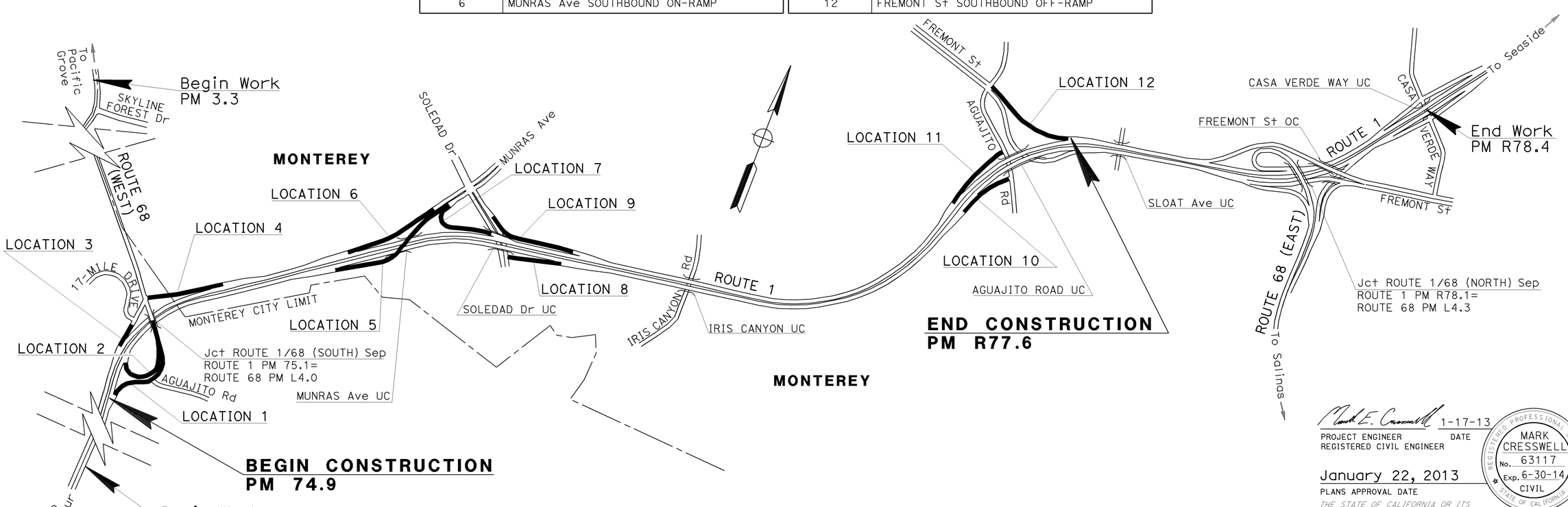
TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

LOCATION MAP

LOCATIONS OF CONSTRUCTION

Loc No. ⌗	DESCRIPTION
1	ROUTE 68 (WEST) NORTHBOUND OFF-RAMP
2	ROUTE 68 (WEST) NORTHBOUND ON-RAMP
3	ROUTE 68 (WEST) SOUTHBOUND ON-RAMP
4	ROUTE 68 (WEST) SOUTHBOUND OFF-RAMP
5	MUNRAS Ave NORTHBOUND OFF-RAMP
6	MUNRAS Ave SOUTHBOUND ON-RAMP

Loc No. ⌗	DESCRIPTION
7	MUNRAS Ave SOUTHBOUND OFF-RAMP
8	SOLEDAD Dr NORTHBOUND ON-RAMP
9	SOLEDAD Dr SOUTHBOUND OFF-RAMP
10	AGUAJITO Rd NORTHBOUND OFF-RAMP
11	AGUAJITO Rd SOUTHBOUND ON-RAMP
12	FREMONT St SOUTHBOUND OFF-RAMP



NO SCALE

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

PROJECT MANAGER: KELLY J. McCLAIN

DESIGN ENGINEER: KELLY J. McCLAIN

Mark E. Cresswell 1-17-13

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — MARK CRESSWELL — No. 63117 — Exp. 6-30-14 — CIVIL — STATE OF CALIFORNIA

January 22, 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.

CONTRACT No.	05-1A4304
PROJECT ID	0500020337

LAST REVISION 01-17-13

DATE PLOTTED => 30-JAN-2013
TIME PLOTTED => 09:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.9/R77.6	2	32

REGISTERED CIVIL ENGINEER — 1-17-13 DATE

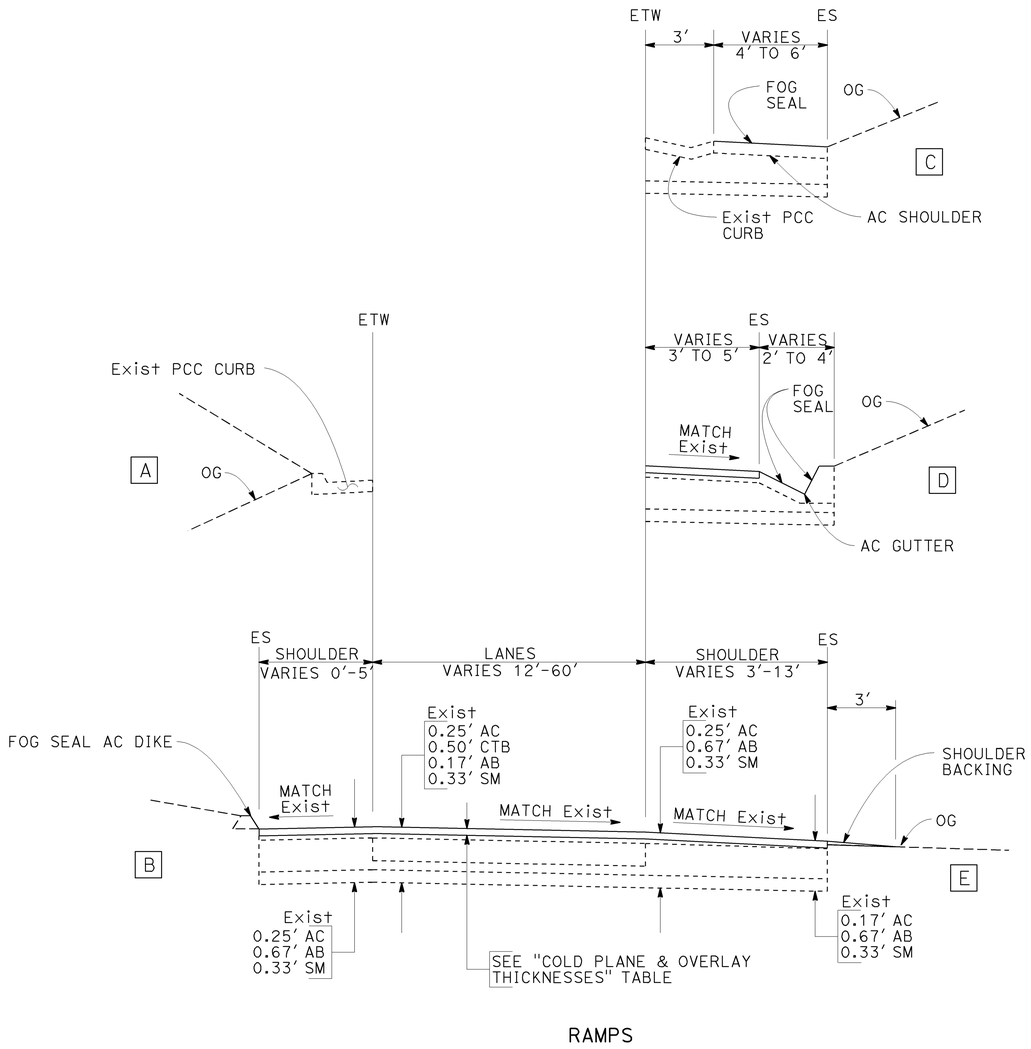
1-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MARK CRESSWELL — No. 63117 — Exp 6-30-14 — 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.

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. HMA AND TACK COAT SHALL NOT BE PLACED ON PCC STRUCTURES OR SURFACES.
3. ASPHALTIC EMULSION (FOG SEAL COAT) SHALL BE PLACED ON EXISTING AC DIKE AND OVERSIDE DRAINS.
4. PLACE 3′ WIDE SHOULDER BACKING AT LOCATIONS WITH NO DIKE.
5. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



RAMPS

ROUTE 1

COLD PLANE & OVERLAY THICKNESSES

LOCATION	DESCRIPTION	COLD PLANE AC PAVEMENT	HMA (TYPE A)	No. OF 12′ LANES *	SHOULDER DETAIL	
		THICKNESS	THICKNESS		L†	R†
1	ROUTE 68 (WEST) NORTHBOUND OFF-RAMP	0.15′	0.15′	1	A	C, D
2	ROUTE 68 (WEST) NORTHBOUND ON-RAMP	0.10′	0.10′	VARIES 1-2	A	C
3	ROUTE 68 (WEST) SOUTHBOUND ON-RAMP	0.15′	0.15′	1	A	C
4	ROUTE 68 (WEST) SOUTHBOUND OFF-RAMP	0.15′	0.15′	VARIES 1-2	A	C, D
5	MUNRAS Ave NORTHBOUND OFF-RAMP	0.10′	0.10′	1	B	D
6	MUNRAS Ave SOUTHBOUND ON-RAMP	0.10′	0.10′	1	B	E
7	MUNRAS Ave SOUTHBOUND OFF-RAMP	0.15′	0.15′	1	A	E
8	SOLEDAD Dr NORTHBOUND ON-RAMP	0.10′	0.10′	1	A	E
9	SOLEDAD Dr SOUTHBOUND OFF-RAMP	0.15′	0.15′	1	B	E
10	AGUAJITO Rd NORTHBOUND OFF-RAMP	0.10′	0.10′	VARIES 1-2	A	E
11	AGUAJITO Rd SOUTHBOUND ON-RAMP	0.10′	0.10′	1	A	E
12	FREMONT St SOUTHBOUND OFF-RAMP	0.15′	0.15′	VARIES 2-5		E

* = SEE CONSTRUCTION DETAILS SHEETS FOR ADDITIONAL INFORMATION.

TYPICAL CROSS SECTIONS

NO SCALE

X-1

REVISED BY | DATE REVISED
MARK CRESSWELL | KELLY J. McCLAIN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION | DATE PLOTTED => 23-JAN-2013
01-17-13 | TIME PLOTTED => 10:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.9/R77.6	3	32

REGISTERED CIVIL ENGINEER — 1-17-13 DATE

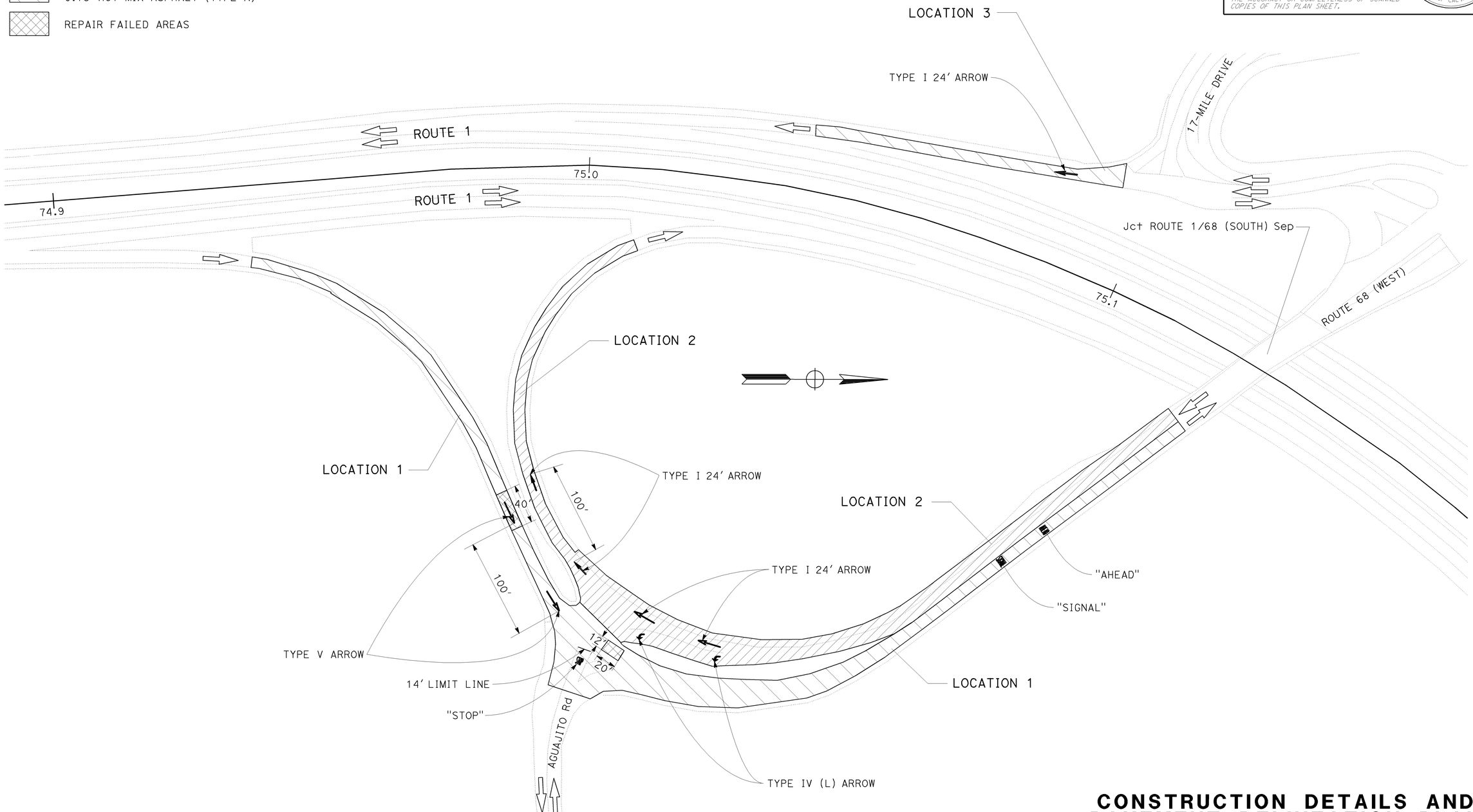
1-22-13
PLANS APPROVAL DATE

MARK CRESSWELL No. 63117 Exp 6-30-14 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.

LEGEND:

- 0.10′ COLD PLANE AC PAVEMENT
  0.10′ HOT MIX ASPHALT (TYPE A)
- 0.15′ COLD PLANE AC PAVEMENT
  0.15′ HOT MIX ASPHALT (TYPE A)
- REPAIR FAILED AREAS



CONSTRUCTION DETAILS AND PAVEMENT DELINEATION PLAN
(LOCATIONS 1, 2 AND 3)

SCALE: 1"=50′

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN

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LAST REVISION DATE PLOTTED => 23-JAN-2013
01-17-13 TIME PLOTTED => 10:34

BORDER LAST REVISED 7/2/2010

USERNAME => s109144
DGN FILE => 0500020337ga001.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1251 | PROJECT NUMBER & PHASE 05000203371

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.9/R77.6	4	32

Mark E. Cresswell 1-17-13
REGISTERED CIVIL ENGINEER DATE

1-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARK CRESSWELL
No. 63117
Exp 6-30-14
CIVIL
STATE OF CALIFORNIA

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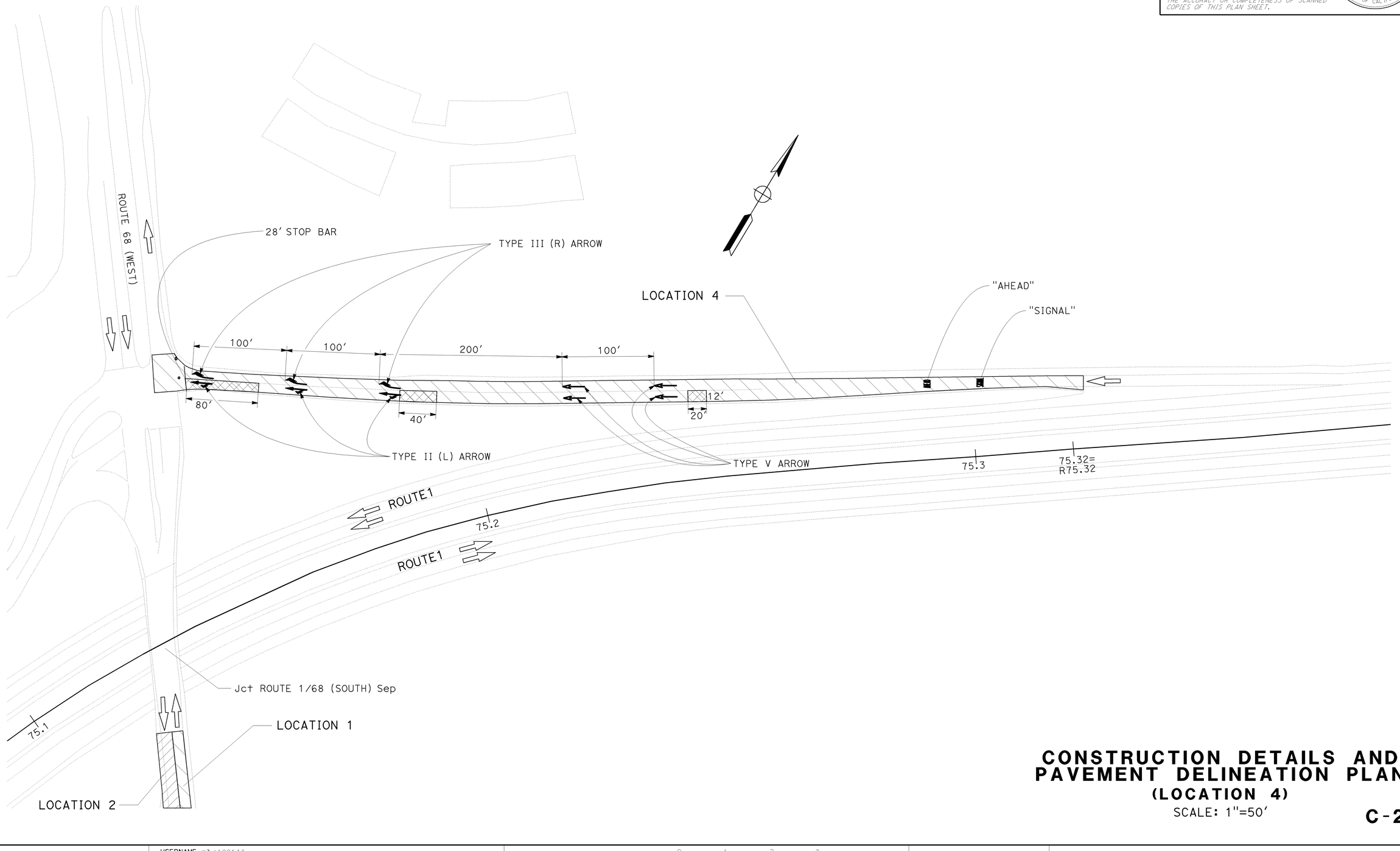

CONSTRUCTION DETAILS AND PAVEMENT DELINEATION PLAN
(LOCATION 4)

SCALE: 1"=50'

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN

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DATE REVISED

LAST REVISION
DATE PLOTTED => 23-JAN-2013
TIME PLOTTED => 10:34
01-17-13

BORDER LAST REVISED 7/2/2010

USERNAME => s109144
DGN FILE => 0500020337ga002.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1251

PROJECT NUMBER & PHASE 05000203371

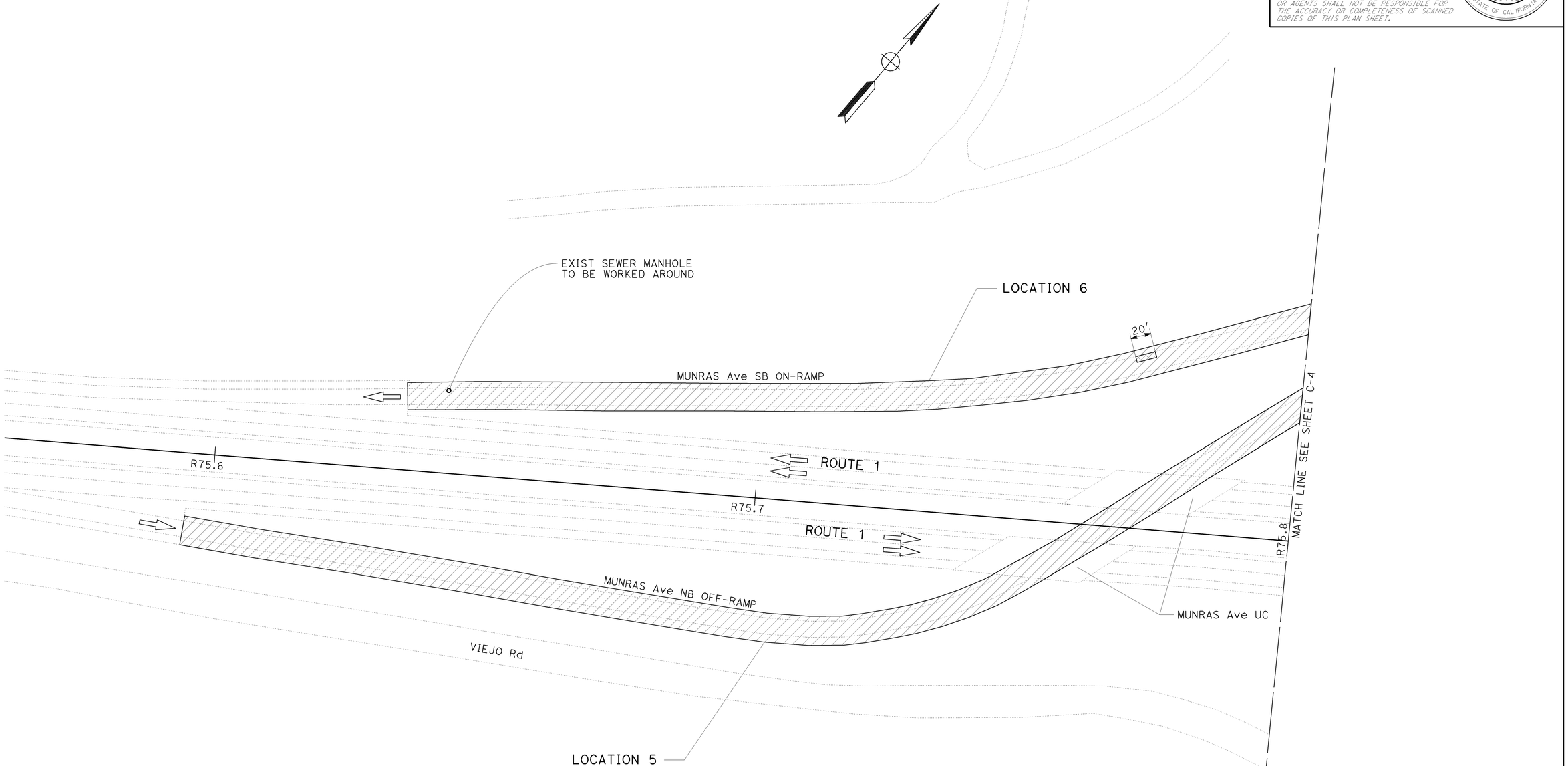
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.9/R77.6	5	32

REGISTERED CIVIL ENGINEER — 1-17-13 DATE

1-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARK CRESSWELL
No. 63117
Exp 6-30-14
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.



CONSTRUCTION DETAILS AND PAVEMENT DELINEATION PLAN
(LOCATIONS 5 AND 6)

SCALE: 1"=50'

C-3

CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

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LAST REVISION | DATE PLOTTED => 23-JAN-2013
01-17-13 | TIME PLOTTED => 10:34

BORDER LAST REVISED 7/2/2010

USERNAME => s109144
DGN FILE => 05000203337ga003.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1251

PROJECT NUMBER & PHASE 05000203371

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.9/R77.6	6	32

Mark E. Cresswell 1-17-13
REGISTERED CIVIL ENGINEER DATE

1-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARK CRESSWELL
No. 63117
Exp 6-30-14
CIVIL
STATE OF CALIFORNIA

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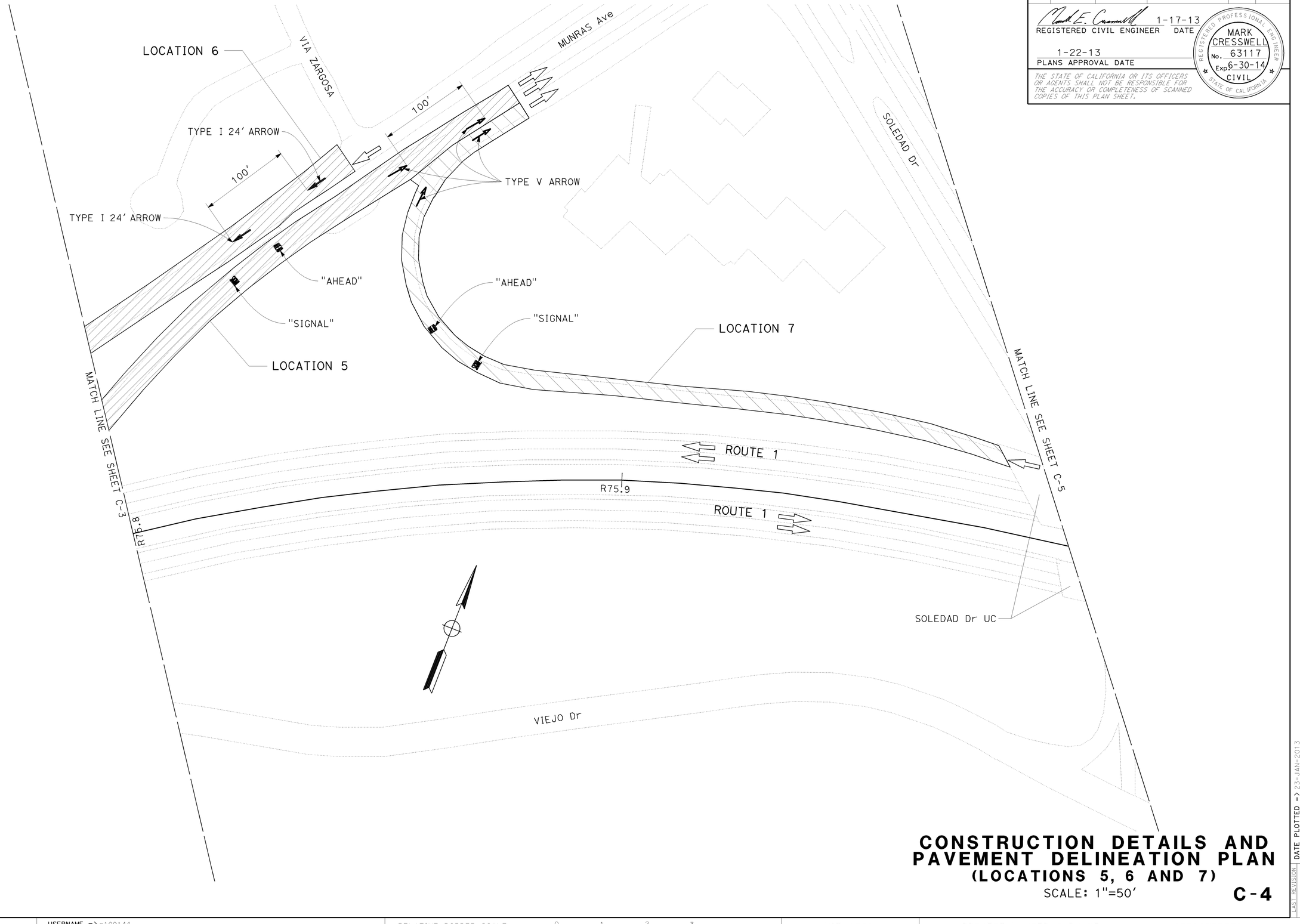


CONSTRUCTION DETAILS AND PAVEMENT DELINEATION PLAN (LOCATIONS 5, 6 AND 7)

SCALE: 1"=50'

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 23-JAN-2013
01-17-13 TIME PLOTTED => 10:34

BORDER LAST REVISED 7/2/2010

USERNAME => s109144
DGN FILE => 0500020337ga004.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1251

PROJECT NUMBER & PHASE 05000203371

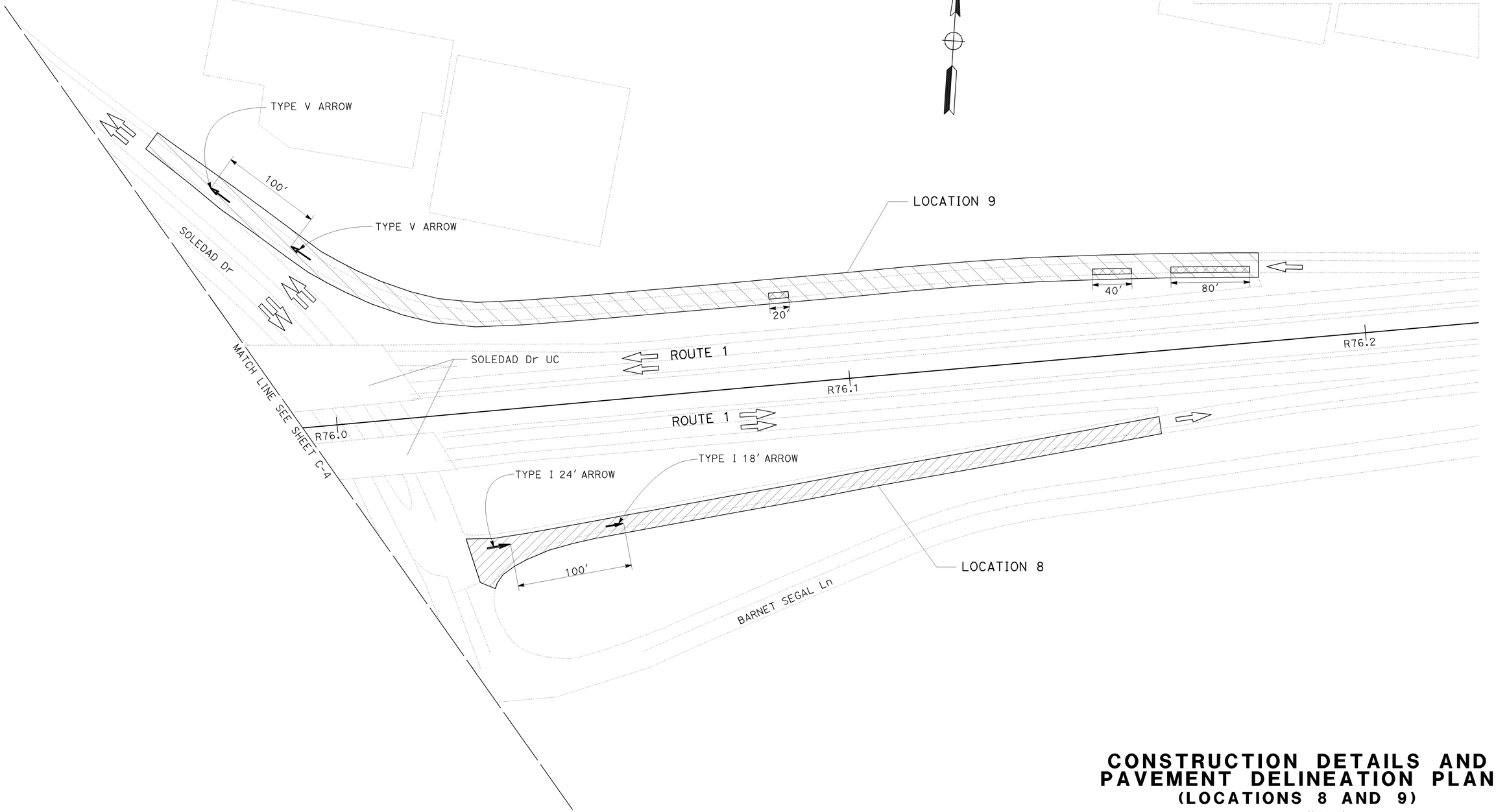
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.9/R77.6	7	32

Mark E. Cresswell 1-17-13
REGISTERED CIVIL ENGINEER DATE

1-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARK CRESSWELL
No. 63117
Exp 6-30-14
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.



CONSTRUCTION DETAILS AND PAVEMENT DELINEATION PLAN
(LOCATIONS 8 AND 9)

SCALE: 1"=50′

C-5

REVISED BY | DATE REVISED
MARK CRESSWELL | KELLY J. McCLAIN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
KELLY J. McCLAIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 01-17-13
DATE PLOTTED => 23-JAN-2013
TIME PLOTTED => 10:34

BORDER LAST REVISED 7/2/2010
USERNAME => s109144
DGN FILE => 0500020337ga005.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1251
PROJECT NUMBER & PHASE 05000203371

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.9/R77.6	8	32

Mark E. Cresswell 1-17-13
REGISTERED CIVIL ENGINEER DATE

1-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARK CRESSWELL
No. 63117
Exp 6-30-14
CIVIL
STATE OF CALIFORNIA

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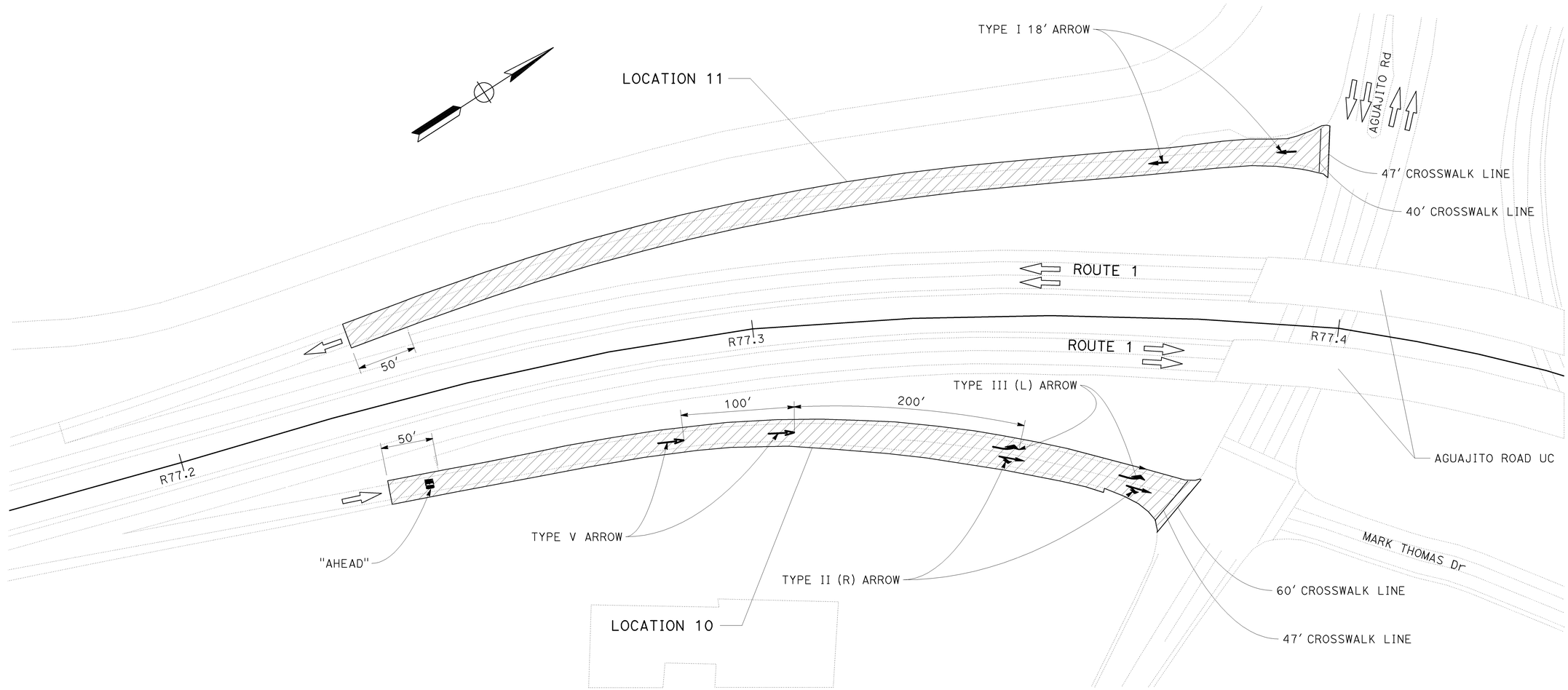

CONSTRUCTION DETAILS AND PAVEMENT DELINEATION PLAN
(LOCATIONS 10 AND 11)

SCALE: 1"=50'

C-6

CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
REVISED BY
DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION 01-17-13
DATE PLOTTED => 23-JAN-2013
TIME PLOTTED => 10:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.9/R77.6	9	32

REGISTERED CIVIL ENGINEER — 1-17-13 DATE

1-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARK CRESSWELL
No. 63117
Exp 6-30-14
CIVIL
STATE OF CALIFORNIA

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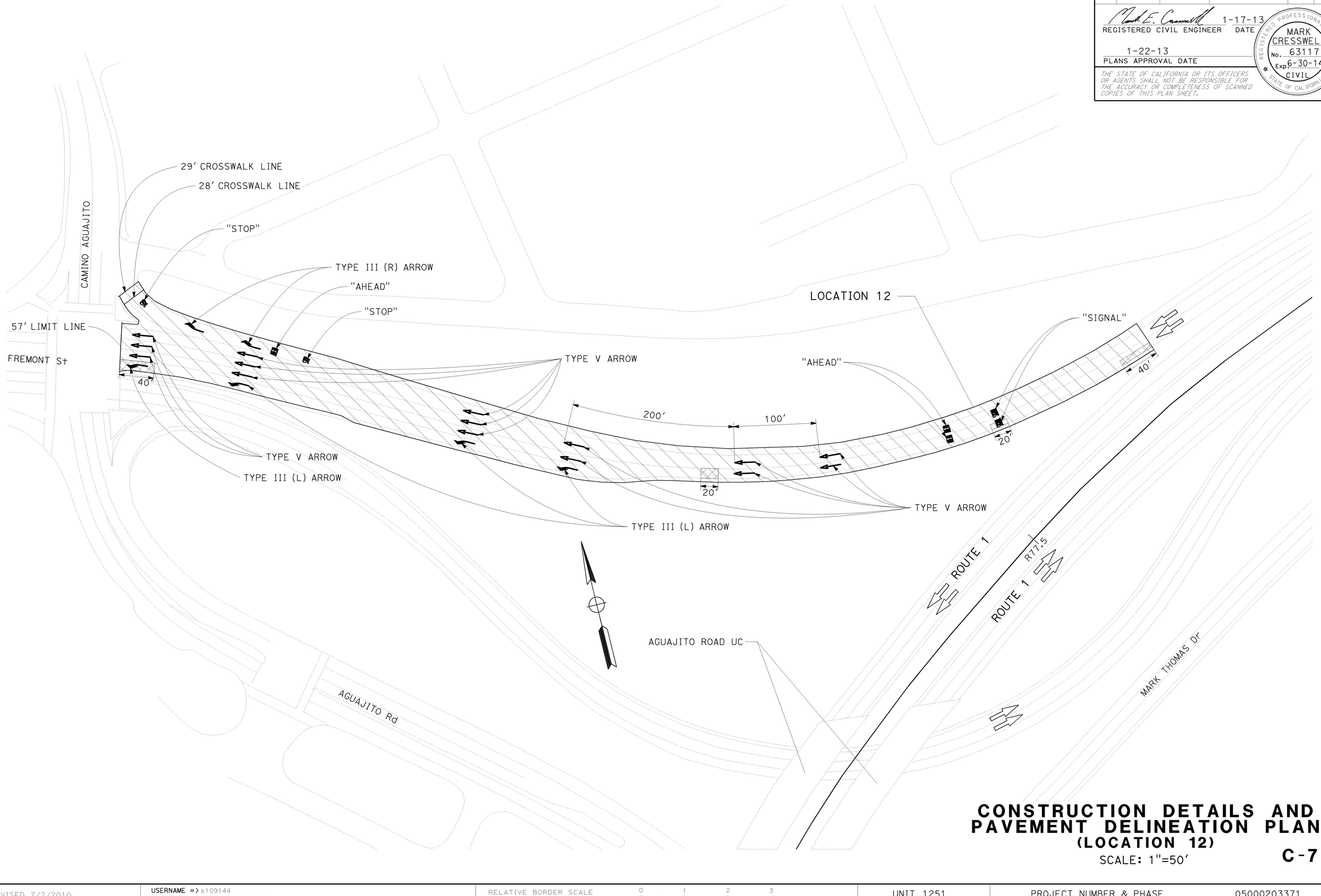


CONSTRUCTION DETAILS AND PAVEMENT DELINEATION PLAN
(LOCATION 12)

SCALE: 1"=50'

C-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

MARK CRESSWELL — KELLY J. McCLAIN — CALCULATED-DESIGNED BY
REVISED BY — DATE REVISED — CHECKED BY
FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

LAST REVISION: DATE PLOTTED => 23-JAN-2013 | 01-17-13 | TIME PLOTTED => 10:34

BORDER LAST REVISED 7/2/2010

USERNAME => s109144
DGN FILE => 0500020337ga007.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1251 | PROJECT NUMBER & PHASE 05000203371

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.9/R77.6	10	32

REGISTERED CIVIL ENGINEER — 1-17-13 DATE

1-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MARK CRESSWELL — No. 63117 — Exp 6-30-14 — CIVIL — STATE OF CALIFORNIA

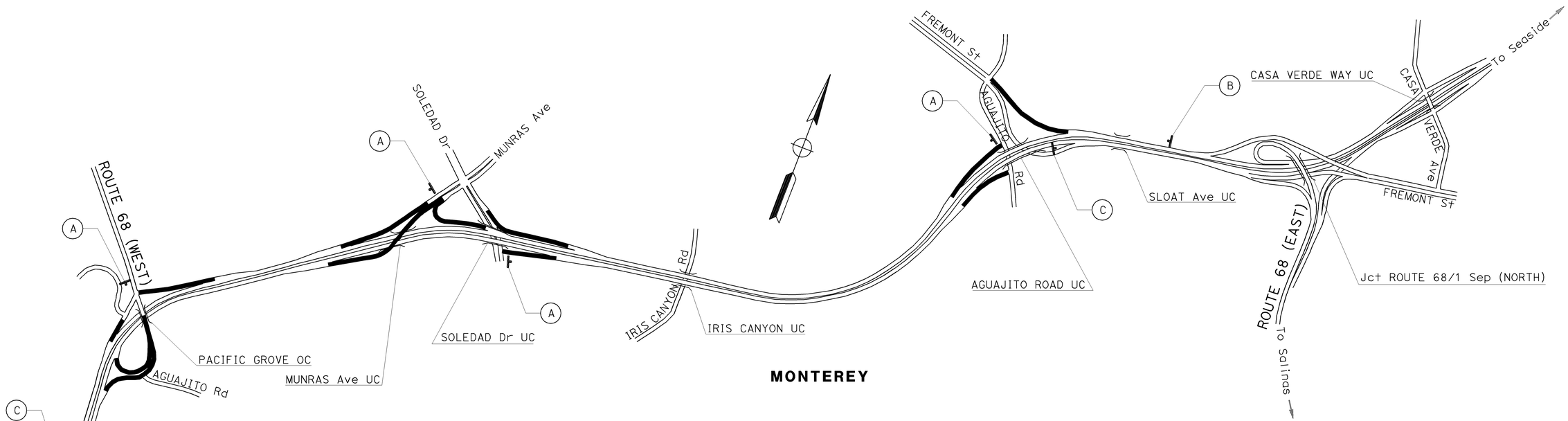
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. EXACT LOCATION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.
2. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE DETOUR PLANS.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
A	W20-1		30" x 30"	ROAD WORK AHEAD	1- 4" x 4"	4
B	W20-1		48" x 48"	ROAD WORK AHEAD	1- 4" x 6"	2
C	G20-2		48" x 24"	END ROAD WORK	1- 4" x 4"	2



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN
FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION — DATE PLOTTED => 23-JAN-2013 — TIME PLOTTED => 10:34
01-17-13

BORDER LAST REVISED 7/2/2010 | USERNAME => s109144 | DGN FILE => 05000203371ca001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1251 | PROJECT NUMBER & PHASE 05000203371

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.9/R77.6	11	32

REGISTERED CIVIL ENGINEER — 1-17-13 DATE

1-22-13
PLANS APPROVAL DATE

MARK CRESSWELL No. 63117 Exp 6-30-14 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.

NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. DURING THE NB ROUTE 68 TO ROUTE 1 ON-RAMP CLOSURE,

   THE PCMS MESSAGE AT [A] SHOULD READ...

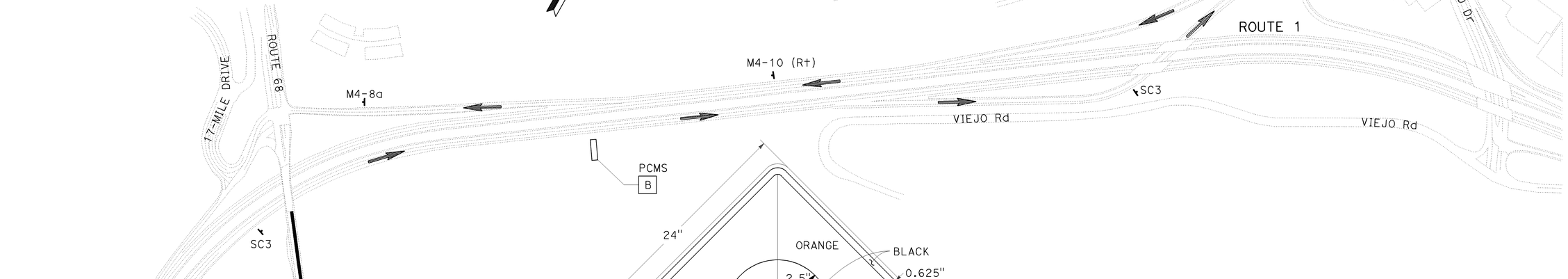
RAMP CLOSED	→	DETOUR MUNRAS AVE
1st FRAME		2nd FRAME

   THE PCMS MESSAGE AT [B] SHOULD READ...

FOR HWY 68 W DETOUR	→	USE NEXT EXIT
1st FRAME		2nd FRAME

LEGEND:

- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- PORTABLE SIGN
- DIRECTION OF DETOUR



A = 2.5"
B = 2.875"
C = 5.063"
D = 0.375"
E = 0.5"

SPECIAL 'U-TURN' SIGN

CONSTRUCTION AREA SIGNS (PORTABLE)

SIGN CODE	SIGN MESSAGE	QUANTITY
SC3	DETOUR (UP ARROW)	3
M4-10 (L↑)	DETOUR (LEFT ARROW)	1
M4-10 (R↑)	DETOUR (RIGHT ARROW)	1
M4-18	DETOUR	1
SPECIAL 'U-TURN'	U-TURN SYMBOL	1
M4-8a	END DETOUR	1
PCMS [A], [B]	(SEE NOTES)	2

DETOUR PLAN
(LOCATION 1 CLOSURE)

NO SCALE **DE-1**

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN
FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN
REVISED BY
DATE REVISED

LAST REVISION 01-17-13 | DATE PLOTTED => 23-JAN-2013 | TIME PLOTTED => 10:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.9/R77.6	12	32

REGISTERED CIVIL ENGINEER — 1-17-13 DATE

1-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MARK CRESSWELL — No. 63117 — Exp 6-30-14 — 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.

NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. DURING THE NB ROUTE 68 TO ROUTE 1 ON-RAMP CLOSURE,

THE PCMS MESSAGE AT [A] SHOULD READ...

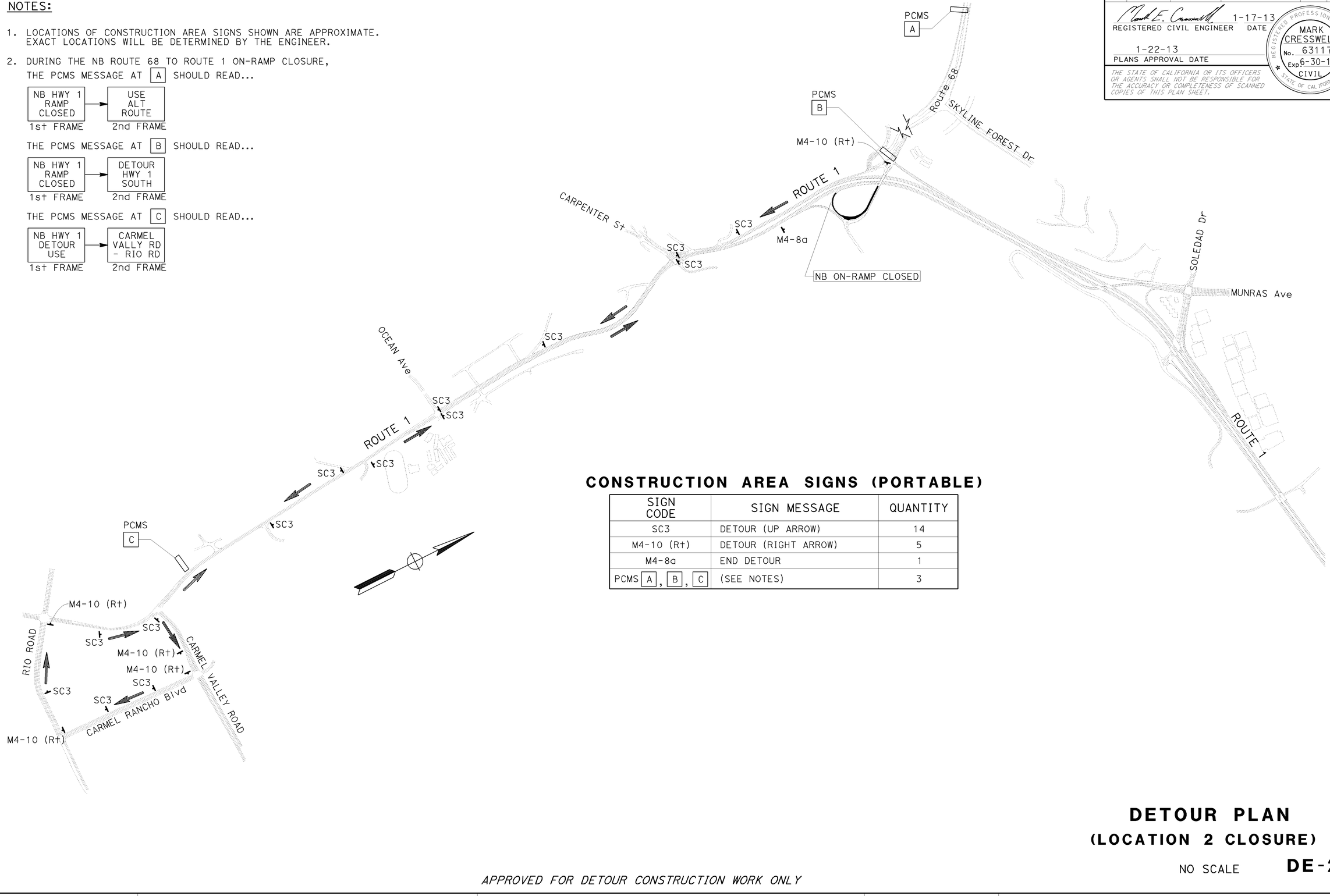
1st FRAME	2nd FRAME
NB HWY 1 RAMP CLOSED	USE ALT ROUTE

THE PCMS MESSAGE AT [B] SHOULD READ...

1st FRAME	2nd FRAME
NB HWY 1 RAMP CLOSED	DETOUR HWY 1 SOUTH

THE PCMS MESSAGE AT [C] SHOULD READ...

1st FRAME	2nd FRAME
NB HWY 1 DETOUR USE	CARMEL VALLY RD - RIO RD



CONSTRUCTION AREA SIGNS (PORTABLE)

SIGN CODE	SIGN MESSAGE	QUANTITY
SC3	DETOUR (UP ARROW)	14
M4-10 (Rt)	DETOUR (RIGHT ARROW)	5
M4-8a	END DETOUR	1
PCMS [A], [B], [C]	(SEE NOTES)	3

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY

DETOUR PLAN
(LOCATION 2 CLOSURE)

NO SCALE **DE-2**

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CHECKED BY
FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
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LAST REVISION | DATE PLOTTED => 23-JAN-2013 | 01-17-13 | TIME PLOTTED => 10:34

BORDER LAST REVISED 7/2/2010 | USERNAME => s109144 | DGN FILE => 0500020337mg002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1251 | PROJECT NUMBER & PHASE 05000203371

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.9/R77.6	13	32

Mark E. Cresswell 1-17-13
REGISTERED CIVIL ENGINEER DATE

1-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MARK CRESSWELL No. 63117 Exp 6-30-14 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.

NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. DURING THE SB ROUTE 1 TO ROUTE 68 OFF-RAMP CLOSURE,

THE PCMS MESSAGE AT [A] SHOULD READ...

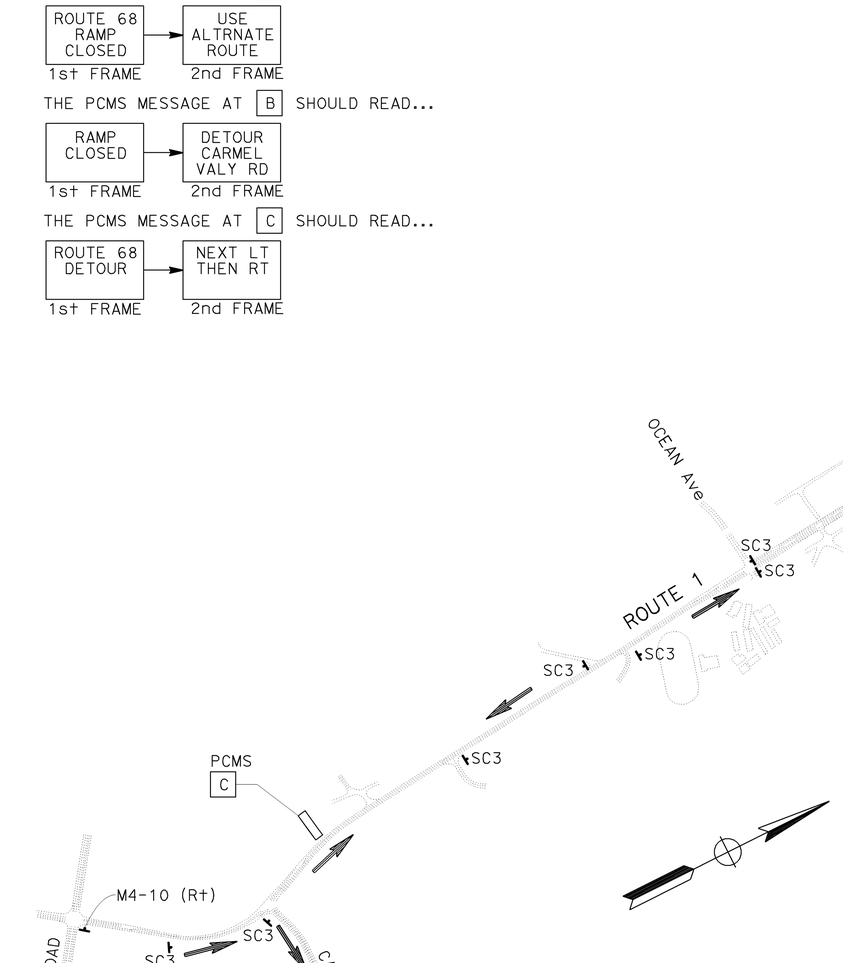
ROUTE 68 RAMP CLOSED	→	USE ALTRNATE ROUTE
1st FRAME		2nd FRAME

THE PCMS MESSAGE AT [B] SHOULD READ...

RAMP CLOSED	→	DETOUR CARMEL VALY RD
1st FRAME		2nd FRAME

THE PCMS MESSAGE AT [C] SHOULD READ...

ROUTE 68 DETOUR	→	NEXT LT THEN RT
1st FRAME		2nd FRAME



CONSTRUCTION AREA SIGNS (PORTABLE)

SIGN CODE	SIGN MESSAGE	QUANTITY
SC3	DETOUR (UP ARROW)	14
M4-10 (Rt)	DETOUR (RIGHT ARROW)	6
M4-8a	END DETOUR	1
PCMS [A], [B], [C]	(SEE NOTES)	3

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DETOUR PLAN
(LOCATION 4 CLOSURE)

NO SCALE **DE-3**

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CALCULATED-DESIGNED BY: MARK CRESSWELL
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DATE REVISED

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BORDER LAST REVISED 7/2/2010 | USERNAME => s109144 | DGN FILE => 0500020337mg003.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1251 | PROJECT NUMBER & PHASE 05000203371

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.9/R77.6	14	32

REGISTERED CIVIL ENGINEER — 1-17-13 DATE

1-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MARK CRESSWELL No. 63117 Exp 6-30-14 CIVIL — STATE OF CALIFORNIA

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NOTES:

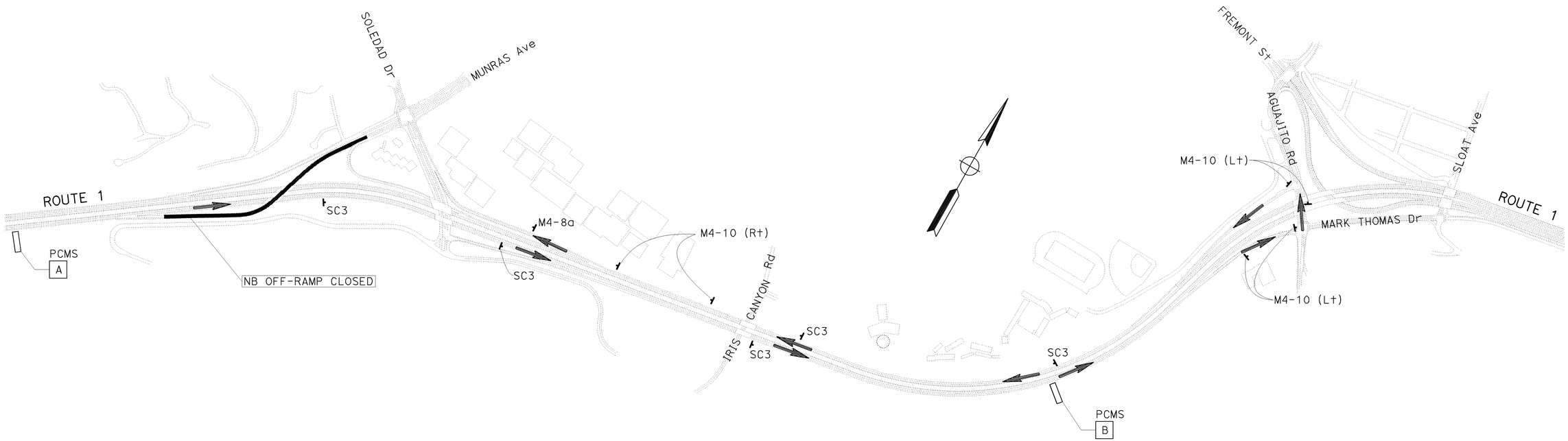
1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. DURING THE NB ROUTE 1 TO MUNRAS Ave OFF-RAMP CLOSURE,

   THE PCMS MESSAGE AT [A] SHOULD READ...

RAMP CLOSED	→	DETOUR AGUAJITO ROAD
1st FRAME		2nd FRAME

   THE PCMS MESSAGE AT [B] SHOULD READ...

FOR MUNRAS DETOUR	→	USE NEXT EXIT
1st FRAME		2nd FRAME



CONSTRUCTION AREA SIGNS (PORTABLE)

SIGN CODE	SIGN MESSAGE	QUANTITY
SC3	DETOUR (UP ARROW)	5
M4-10 (Lt)	DETOUR (LEFT ARROW)	4
M4-10 (Rt)	DETOUR (RIGHT ARROW)	2
M4-8a	END DETOUR	1
PCMS [A], [B]	(SEE NOTES)	2

DETOUR PLAN
(LOCATION 5 CLOSURE)

NO SCALE **DE-4**

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FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
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01-17-13

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.9/R77.6	15	32

REGISTERED CIVIL ENGINEER — 1-17-13 DATE

1-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MARK CRESSWELL — No. 63117 — Exp 6-30-14 — CIVIL — STATE OF CALIFORNIA

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NOTES:

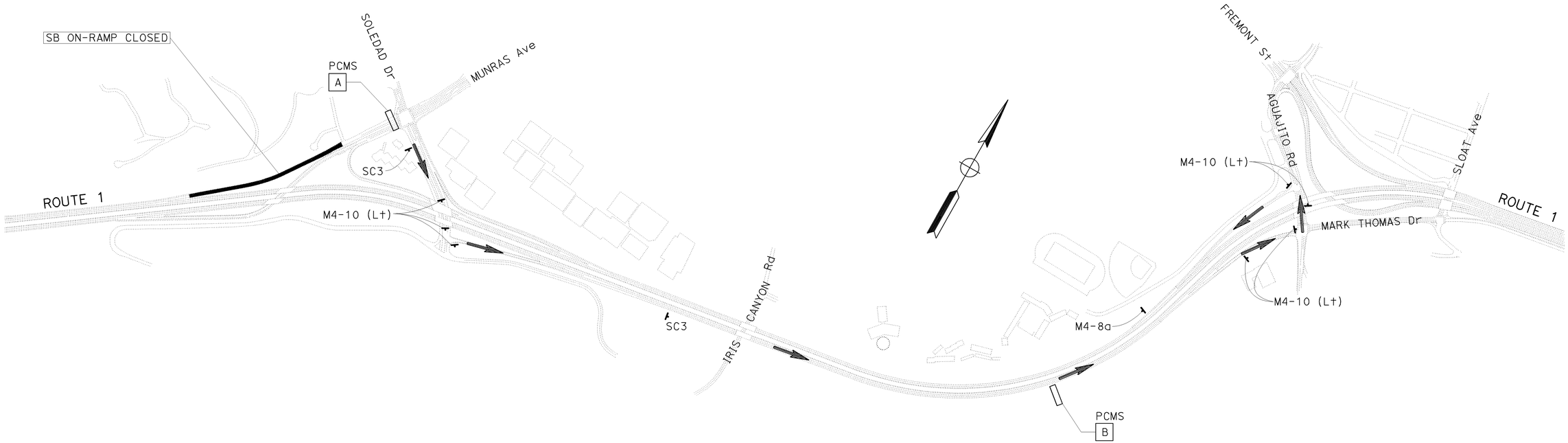
1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. DURING THE SB MUNRAS Ave. TO ROUTE 1 ON-RAMP CLOSURE,

   THE PCMS MESSAGE AT [A] SHOULD READ...

SB HWY 1 RAMP CLOSED	→	DETOUR LEFT AT SIGNAL
1st FRAME		2nd FRAME

   THE PCMS MESSAGE AT [B] SHOULD READ...

FOR HWY1 SOUTH DETOUR	→	USE NEXT EXIT
1st FRAME		2nd FRAME



CONSTRUCTION AREA SIGNS (PORTABLE)

SIGN CODE	SIGN MESSAGE	QUANTITY
SC3	DETOUR (UP ARROW)	2
M4-10 (Lt)	DETOUR (LEFT ARROW)	7
M4-8a	END DETOUR	1
PCMS [A], [B]	(SEE NOTES)	2

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY

DETOUR PLAN
(LOCATION 6 CLOSURE)

NO SCALE **DE-5**

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FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
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01-17-13 | TIME PLOTTED => 10:34

BORDER LAST REVISED 7/2/2010 | USERNAME => s109144 | DGN FILE => 0500020337mg005.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1251 | PROJECT NUMBER & PHASE 05000203371

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.9/R77.6	16	32

REGISTERED CIVIL ENGINEER — 1-17-13 DATE

1-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MARK CRESSWELL — No. 63117 — Exp 6-30-14 — CIVIL — STATE OF CALIFORNIA

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NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. DURING THE NB SOLEDAD Dr TO ROUTE 1 ON-RAMP CLOSURE,

   THE PCMS MESSAGE AT [A] SHOULD READ...

1st Frame	2nd Frame
HWY 1 NB RAMP CLOSED	DETOUR HWY 1 SOUTH

CONSTRUCTION AREA SIGNS (PORTABLE)

SIGN CODE	SIGN MESSAGE	QUANTITY
SC3	DETOUR (UP ARROW)	8
M4-10 (Lt)	DETOUR (LEFT ARROW)	4
M4-10 (Rt)	DETOUR (RIGHT ARROW)	2
M4-18	DETOUR	1
SPECIAL 'U-TURN'	U-TURN SYMBOL	1
M4-8a	END DETOUR	1
PCMS [A]	(SEE NOTES)	1

DETOUR PLAN
(LOCATION 8 CLOSURE)

NO SCALE

DE-6

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FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

CALCULATED-DESIGNED BY: MARK CRESSWELL
CHECKED BY: KELLY J. McCLAIN

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BORDER LAST REVISED 7/2/2010

USERNAME => s109144
DGN FILE => 0500020337mg006.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1251

PROJECT NUMBER & PHASE 05000203371

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.9/R77.6	17	32

Mark E. Cresswell 1-17-13
REGISTERED CIVIL ENGINEER DATE

1-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARK CRESSWELL
No. 63117
Exp 6-30-14
CIVIL
STATE OF CALIFORNIA

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NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. DURING THE NB ROUTE 1 TO AGUAJITO Rd OFF-RAMP CLOSURE,

THE PCMS MESSAGE AT [A] SHOULD READ...

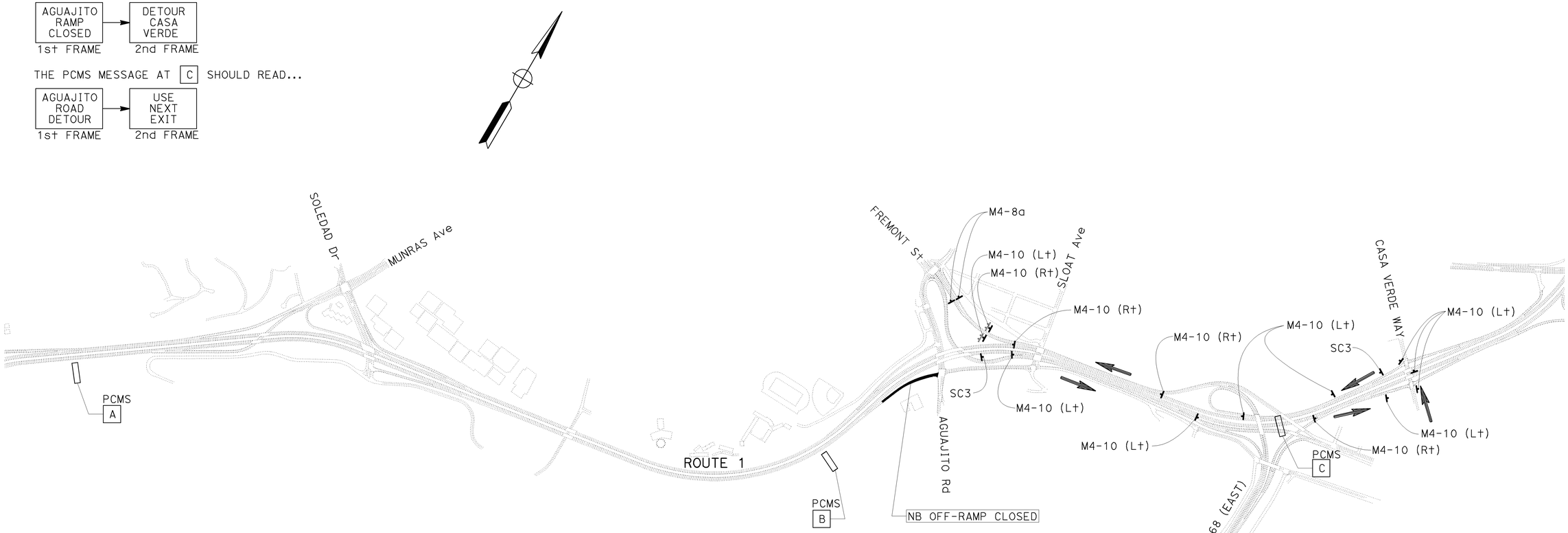
AGUAJITO RAMP CLOSED →	USE ALT ROUTE
1st FRAME	2nd FRAME

THE PCMS MESSAGE AT [B] SHOULD READ...

AGUAJITO RAMP CLOSED →	DETOUR CASA VERDE
1st FRAME	2nd FRAME

THE PCMS MESSAGE AT [C] SHOULD READ...

AGUAJITO ROAD DETOUR →	USE NEXT EXIT
1st FRAME	2nd FRAME



CONSTRUCTION AREA SIGNS (PORTABLE)

SIGN CODE	SIGN MESSAGE	QUANTITY
SC3	DETOUR (UP ARROW)	2
M4-10 (Lt)	DETOUR (LEFT ARROW)	9
M4-10 (Rt)	DETOUR (RIGHT ARROW)	4
M4-8a	END DETOUR	2
PCMS [A], [B], [C]	(SEE NOTES)	3

DETOUR PLAN
(LOCATION 10 CLOSURE)

NO SCALE **DE-7**

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KELLY J. McCLAIN
FUNCTIONAL SUPERVISOR
KELLY J. McCLAIN
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USERNAME => s109144
DGN FILE => 05000203337mg007.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1251
PROJECT NUMBER & PHASE 05000203371

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.9/R77.6	18	32

Mark E. Cresswell 1-17-13
REGISTERED CIVIL ENGINEER DATE

1-22-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARK CRESSWELL
No. 63117
Exp 6-30-14
CIVIL
STATE OF CALIFORNIA

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NOTES:

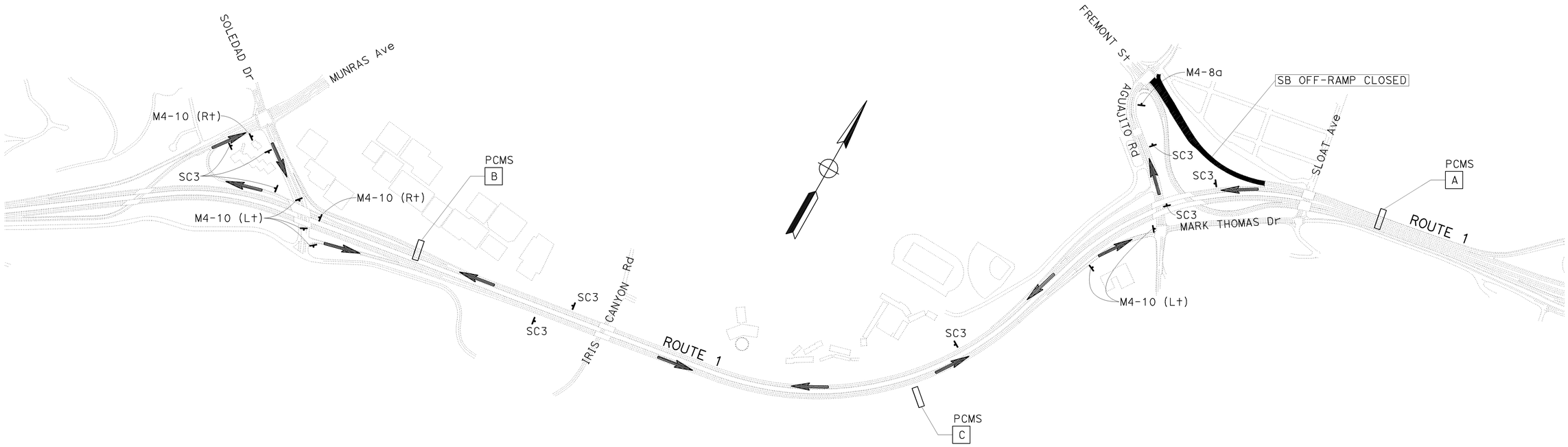
1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. DURING THE SB ROUTE 1 FREMONT St OFF-RAMP CLOSURE,

   THE PCMS MESSAGE AT [A] SHOULD READ...

RAMP CLOSED	→	DETOUR MUNRAS AVE
1st Frame		2nd Frame

   THE PCMS MESSAGE AT [B] & [C] SHOULD READ...

FOR FREMONT DETOUR	→	USE NEXT EXIT
1st Frame		2nd Frame



CONSTRUCTION AREA SIGNS (PORTABLE)

SIGN CODE	SIGN MESSAGE	QUANTITY
SC3	DETOUR (UP ARROW)	9
M4-10 (Lt)	DETOUR (LEFT ARROW)	5
M4-10 (Rt)	DETOUR (RIGHT ARROW)	2
M4-8a	END DETOUR	1
PCMS [A], [B], [C]	(SEE NOTES)	2

DETOUR PLAN
(LOCATION 12 CLOSURE)

NO SCALE **DE-8**

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CHECKED BY: KELLY J. McCLAIN
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TIME PLOTTED => 10:34
01-17-13

BORDER LAST REVISED 7/2/2010
USERNAME => s109144
DGN FILE => 0500020337mg008.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1251
PROJECT NUMBER & PHASE 05000203371

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.9/R77.6	19	32

REGISTERED CIVIL ENGINEER — 1-17-13 DATE

1-22-13
PLANS APPROVAL DATE

MARK CRESSWELL No. 63117 Exp 6-30-14 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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PAVEMENT DELINEATION

LOCATION	DESCRIPTION	DETAIL No.								4" THERMOPLASTIC TRAFFIC STRIPE		4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7)	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)	8" THERMOPLASTIC TRAFFIC STRIPE	PAVEMENT MARKER (NON-REFLECTIVE)	PAVEMENT MARKER (RETROREFLECTIVE)		
		9	12	22	23	25A	27B	38	38A	YELLOW	WHITE				TYPE AY	TYPE D	TYPE G	TYPE H
		LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA
1	ROUTE 68 (WEST) NORTHBOUND OFF-RAMP			434	76	772	1,172			1,640	1,172				32	46		32
2	ROUTE 68 (WEST) NORTHBOUND ON-RAMP			39		659	1,087	107		737	1,087			107		4	4	27
3	ROUTE 68 (WEST) SOUTHBOUND ON-RAMP					283	232	36		283	232			36			2	12
4	ROUTE 68 (WEST) SOUTHBOUND OFF-RAMP	335				974	977		290	974	977	335		290			7	41
5	MUNRAS Ave NORTHBOUND OFF-RAMP					1,449	1,663			1,449	1,663							60
6	MUNRAS Ave SOUTHBOUND ON-RAMP					1,250	1,245			1,250	1,245							52
7	MUNRAS Ave SOUTHBOUND OFF-RAMP					823	943	167		823	943			167			7	34
8	SOLEDAD Dr NORTHBOUND ON-RAMP					716	710			716	710							30
9	SOLEDAD Dr SOUTHBOUND OFF-RAMP	73				932	970	181		932	970	73		181			9	39
10	AGUAJITO Rd NORTHBOUND OFF-RAMP		256			678	709	54		678	709		256	54			2	28
11	AGUAJITO Rd SOUTHBOUND ON-RAMP					846	907	53		846	907			53			2	35
12	FREMONT St SOUTHBOUND OFF-RAMP	893	779			1,190	1,207	849		1,190	1,207	893	779	849			54	50
	SUBTOTAL									11,518	11,822	1,301	1,035	1,737	32	50	87	440
	TOTAL									23,340		1,301	1,035	1,737	32	577		

PAVEMENT MARKING

LOCATION	DESCRIPTION	THERMOPLASTIC PAVEMENT MARKING DETAILS (N)													THERMOPLASTIC PAVEMENT MARKING
		TYPE I 18'-0" ARROW	TYPE I 24'-0" ARROW	TYPE II (L) ARROW	TYPE II (R) ARROW	TYPE III (L) ARROW	TYPE III (R) ARROW	TYPE IV (L) ARROW	TYPE V ARROW	TYPE VII (R) ARROW	CROSSWALK AND LIMIT LINE	"AHEAD"	"SIGNAL"	"STOP"	
		EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	EA	EA	EA	SQFT
1	HIGHWAY 68 (WEST) NORTHBOUND OFF-RAMP								2		14	1	1	1	162
2	HIGHWAY 68 (WEST) NORTHBOUND ON-RAMP		4					2							154
3	HIGHWAY 68 (WEST) SOUTHBOUND ON-RAMP		1												31
4	HIGHWAY 68 (WEST) SOUTHBOUND OFF-RAMP			3			3		4		28	1	1		492
5	MUNRAS Ave NORTHBOUND OFF-RAMP								2			1	1		133
6	MUNRAS Ave SOUTHBOUND ON-RAMP		2												62
7	MUNRAS Ave SOUTHBOUND OFF-RAMP								2			1	1		133
8	SOLEDAD Dr NORTHBOUND ON-RAMP	1	1												56
9	SOLEDAD Dr SOUTHBOUND OFF-RAMP								2						70
10	AGUAJITO Rd NORTHBOUND OFF-RAMP				2	2			2	2	107	1			436
11	AGUAJITO Rd SOUTHBOUND ON-RAMP	2									87				137
12	FREMONT St SOUTHBOUND OFF-RAMP					4	2		15		114	3	2	2	1,078
	TOTAL														2,944

(N) = NOT A SEPARATE PAY ITEM. FOR INFORMATION ONLY.

PAVEMENT DELINEATION QUANTITIES
PDQ-1

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CALCULATED-DESIGNED BY: KELLY J. McCLAIN — CHECKED BY
FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.9/R77.6	20	32

REGISTERED CIVIL ENGINEER — 1-17-13 DATE

1-22-13
PLANS APPROVAL DATE

MARK CRESSWELL No. 63117 Exp 6-30-14 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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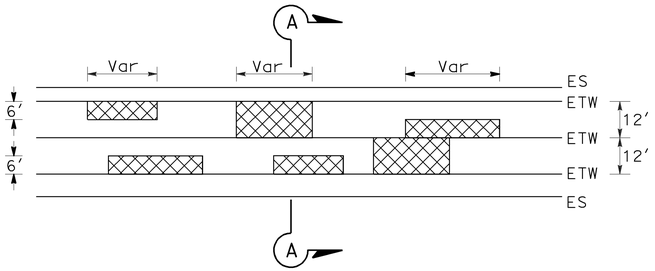
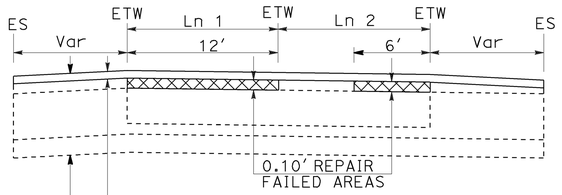
LEGEND:

REPAIR FAILED AREAS



TYPICAL LOCATION PLAN



SECTION A-A

* = SEE SHEET X-1 FOR DETAILS

REPAIR FAILED AREAS

LOCATION	DESCRIPTION	COLD PLANE * AC PAVEMENT 0.10' DEPTH	HMA (TYPE A) *	TACK COAT *
		SQYD	TON	TON
1	ROUTE 68 (WEST) NORTHBOUND OFF-RAMP	80	6.0	0.03
4	ROUTE 68 (WEST) SOUTHBOUND OFF-RAMP	187	13.9	0.07
6	MUNRAS Ave SOUTHBOUND ON-RAMP	14	1.0	0.01
9	SOLEDAD Dr SOUTHBOUND OFF-RAMP	94	7.0	0.04
12	FREMONT St SOUTHBOUND OFF-RAMP	120	9.0	0.04
	TOTAL	495	36.9	0.19

* = QUANTITY INCLUDED IN PAVEMENT STRUCTURE QUANTITIES SUMMARY

REPAIR FAILED AREAS

PAVEMENT STRUCTURE

LOCATION	DESCRIPTION	COLD PLANE AC PAVEMENT 0.10' DEPTH	COLD PLANE AC PAVEMENT 0.15' DEPTH	HMA (TYPE A)	TACK COAT	ASPHALTIC EMULSION (FOG SEAL COAT)	SHOULDER BACKING
		SQYD	SQYD	TON	TON	TON	TON
1	ROUTE 68 (WEST) NORTHBOUND OFF-RAMP		2,632	294	0.88	0.44	
2	ROUTE 68 (WEST) NORTHBOUND ON-RAMP	2,474		184	0.83	0.35	
3	ROUTE 68 (WEST) SOUTHBOUND ON-RAMP		448	50	0.15	0.14	
4	ROUTE 68 (WEST) SOUTHBOUND OFF-RAMP		2,505	279	0.84	0.40	
5	MUNRAS Ave NORTHBOUND OFF-RAMP	5,530		411	1.85	0.61	2.4
6	MUNRAS Ave SOUTHBOUND ON-RAMP	3,986		296	1.33		27.0
7	MUNRAS Ave SOUTHBOUND OFF-RAMP		2,108	235	0.71	0.14	6.6
8	SOLEDAD Dr NORTHBOUND ON-RAMP	1,550		116	0.52	0.17	
9	SOLEDAD Dr SOUTHBOUND OFF-RAMP		3,263	364	1.09	0.17	12.5
10	AGUAJITO Rd NORTHBOUND OFF-RAMP	2,150		160	0.72	0.10	
11	AGUAJITO Rd SOUTHBOUND ON-RAMP	2,387		178	0.80		8.7
12	FREMONT St SOUTHBOUND OFF-RAMP		6,874	766	2.30	0.28	11.0
1, 4, 6, 9, 12	FROM "REPAIR FAILED AREAS" TABLE	495		37	0.19		
	TOTAL	36,402		3,370	12.21	2.80	68.2

SUMMARY OF QUANTITIES AND CONSTRUCTION DETAILS

Q-1

REVISED BY | DATE REVISED
MARK CRESSWELL | KELLY J. McCLAIN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: KELLY J. McCLAIN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE DESIGN
Caltrans

LAST REVISION 01-17-13 | DATE PLOTTED => 23-JAN-2013 | TIME PLOTTED => 10:34

BORDER LAST REVISED 7/2/2010 | USERNAME => s109144 | DGN FILE => 0500020337pa001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1251 | PROJECT NUMBER & PHASE 05000203371

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.6/R77.6	21	32

K. Vomaske 1-17-13
REGISTERED ELECTRICAL ENGINEER — DATE

1-22-13
PLANS APPROVAL DATE

K.J.VOMASKE No. 15720 Exp 6-30-14 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

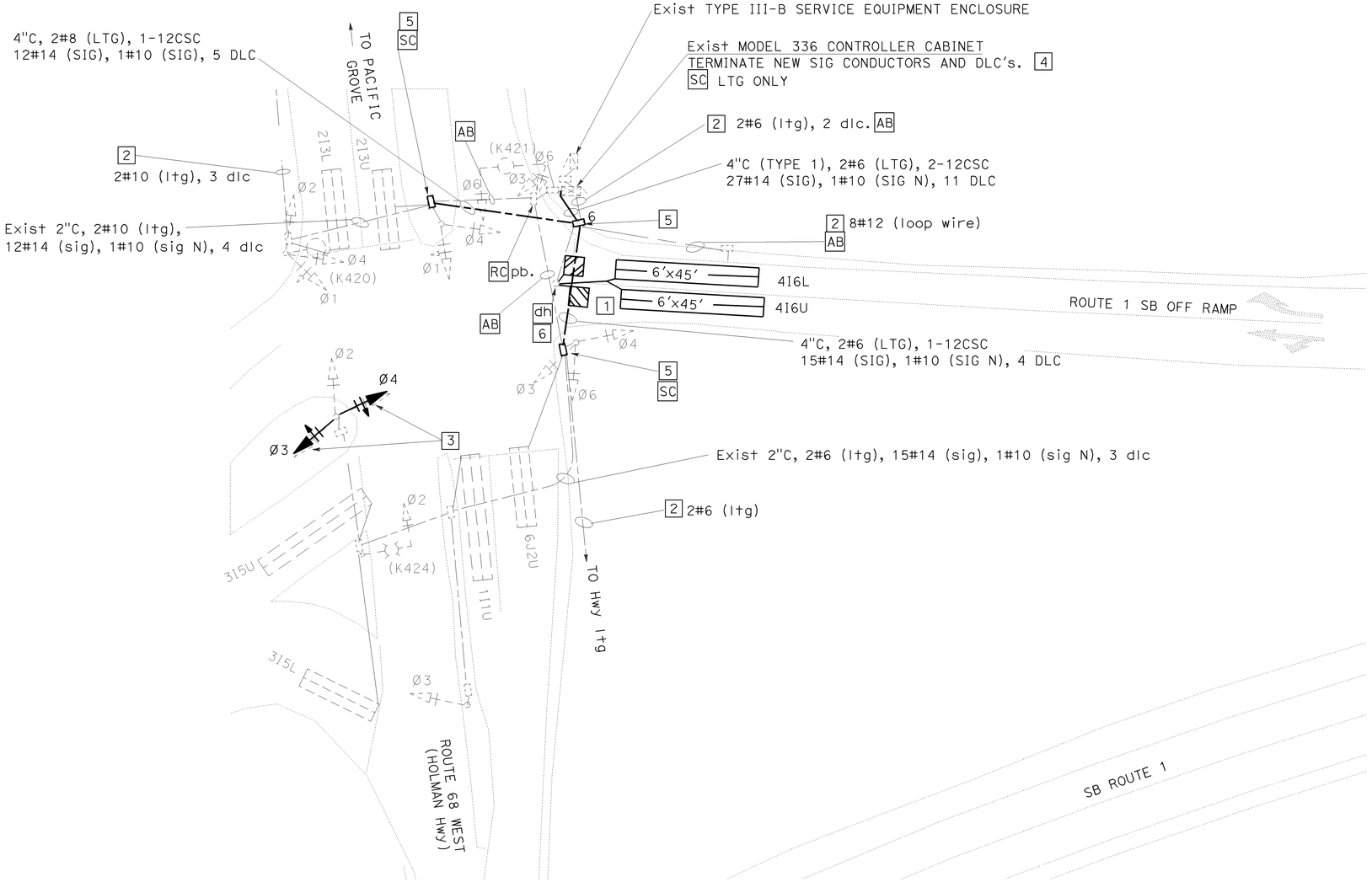
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

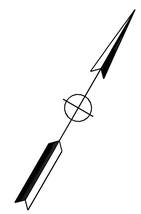
NOTES:

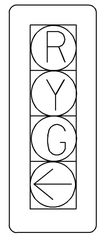
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. COMPLETE Exist SIGNAL AND LIGHTING SYSTEM IS NOT SHOWN.
3. [AB] Exist LOOP DETECTORS TO BE REPLACED.
4. USE EXISTING TERMINATION CONDUITS FOR NEW LOOP CONDUCTORS UNLESS SHOWN OTHERWISE.
5. TYPE D LOOPS MUST HAVE 5 TURNS EACH AND BE SPLICED IN SERIES WITH TYPE C LOOPS.

LEGEND:

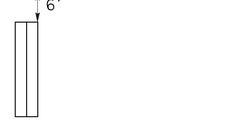
[1] EXTEND THE FRONT END OF TYPE D LOOPS 2' PAST LIMIT LINE OR CROSSWALK. SEE DETAIL "B".
[2] Exist 1½"C.
[3] REPLACE Exist 3-SECTION SIGNAL FACE WITH 4-SECTION SHOWN IN DETAIL "A". Exist SIGNAL MTG IS tv-3-t. Exist Ø2 SIGNAL FACE MUST REMAIN IN PLACE.
[4] INSTALL 4"C (TYPE 1) FROM No. 6 PB INTO SIDE OF MODEL 336 CABINET ADAPTOR PLATE WITH "LB" FITTING Approx 3 Ft ABOVE OG.
[5] [BC] REPLACE pb.
[6] ADJUST [dh] FRAME AND COVER TO GRADE.







DETAIL "A"



DETAIL "B"
Typ DETECTOR LOOP ARRAY

SIGNAL AND LIGHTING

SCALE: 1"=20'

E-1

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC OPERATIONS
FUNCTIONAL SUPERVISOR: JULIE M. GONZALEZ
CALCULATED-DESIGNED BY: KEN VOMASKE
CHECKED BY: JULIE M. GONZALEZ
REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 23-JAN-2013
01-17-13 | TIME PLOTTED => 10:34

BORDER LAST REVISED 7/2/2010
USERNAME => s109144
DGN FILE => 0500020337ua001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1244
PROJECT NUMBER & PHASE 05000203371

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.6/R77.6	22	32

REGISTERED ELECTRICAL ENGINEER — DATE 1-17-13

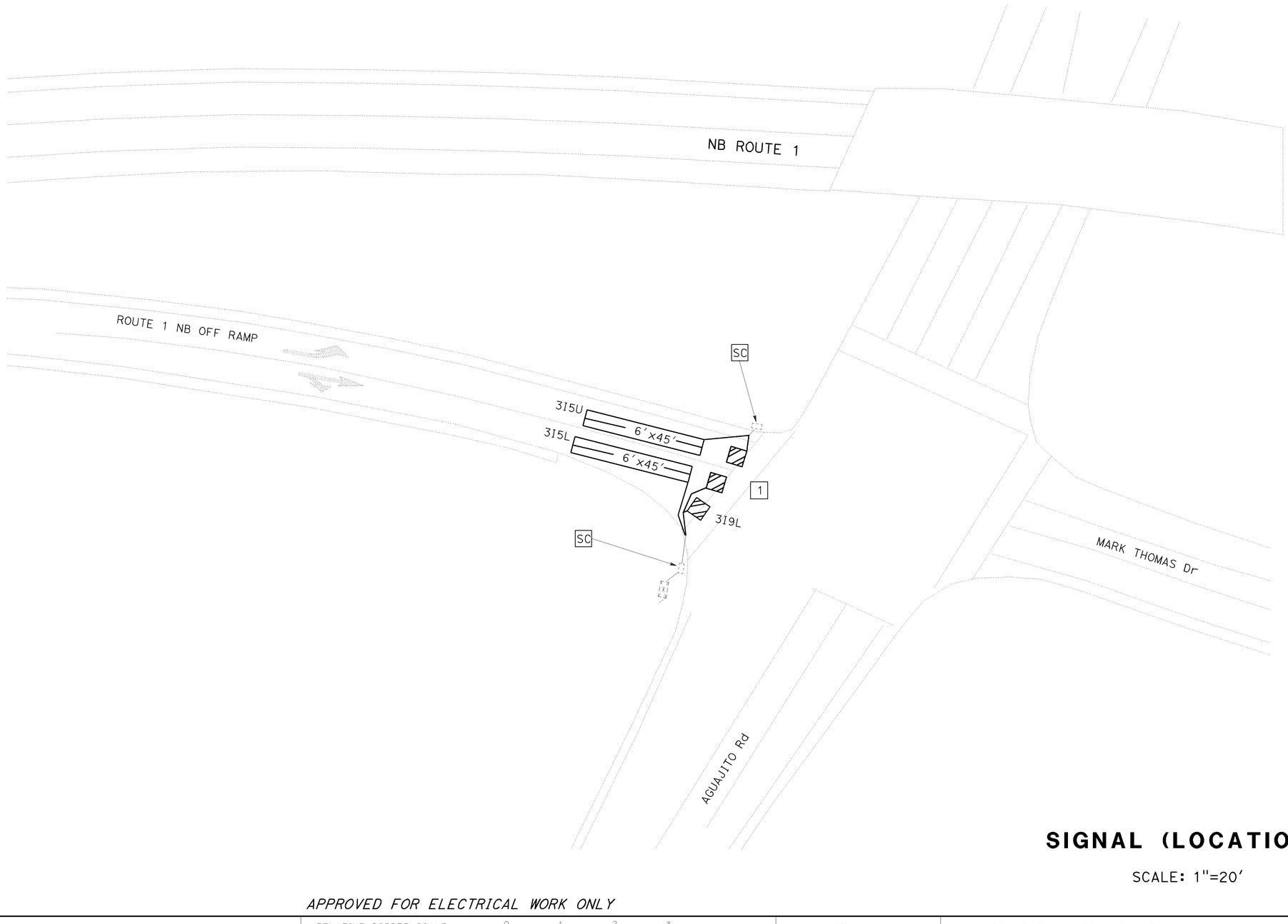
PLANS APPROVAL DATE 1-22-13

REGISTERED PROFESSIONAL ENGINEER — K.J.VOMASKE No. 15720 Exp 6-30-14 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.

NOTES:

1. FOR LEGEND AND ADDITIONAL NOTES, REFER TO SHEET E-1.
2. EXISTING SIGNAL AND LIGHTING SYSTEM NOT SHOWN.
3. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



SIGNAL (LOCATION 1)

SCALE: 1"=20' **E-2**

APPROVED FOR ELECTRICAL WORK ONLY

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY: KEN VOMASKE
CHECKED BY: JULIE M. GONZALEZ
FUNCTIONAL SUPERVISOR: JULIE M. GONZALEZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC OPERATIONS

LAST REVISION: DATE PLOTTED => 23-JAN-2013 | 01-17-13 | TIME PLOTTED => 10:34

BORDER LAST REVISED 7/2/2010 | USERNAME => s109144 | DGN FILE => 0500020337ua002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1244 | PROJECT NUMBER & PHASE 05000203371

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.6/R77.6	23	32

REGISTERED ELECTRICAL ENGINEER — 1-17-13 DATE

1-22-13 PLANS APPROVAL DATE

K.J.VOMASKE No. 15720 Exp.6-30-14 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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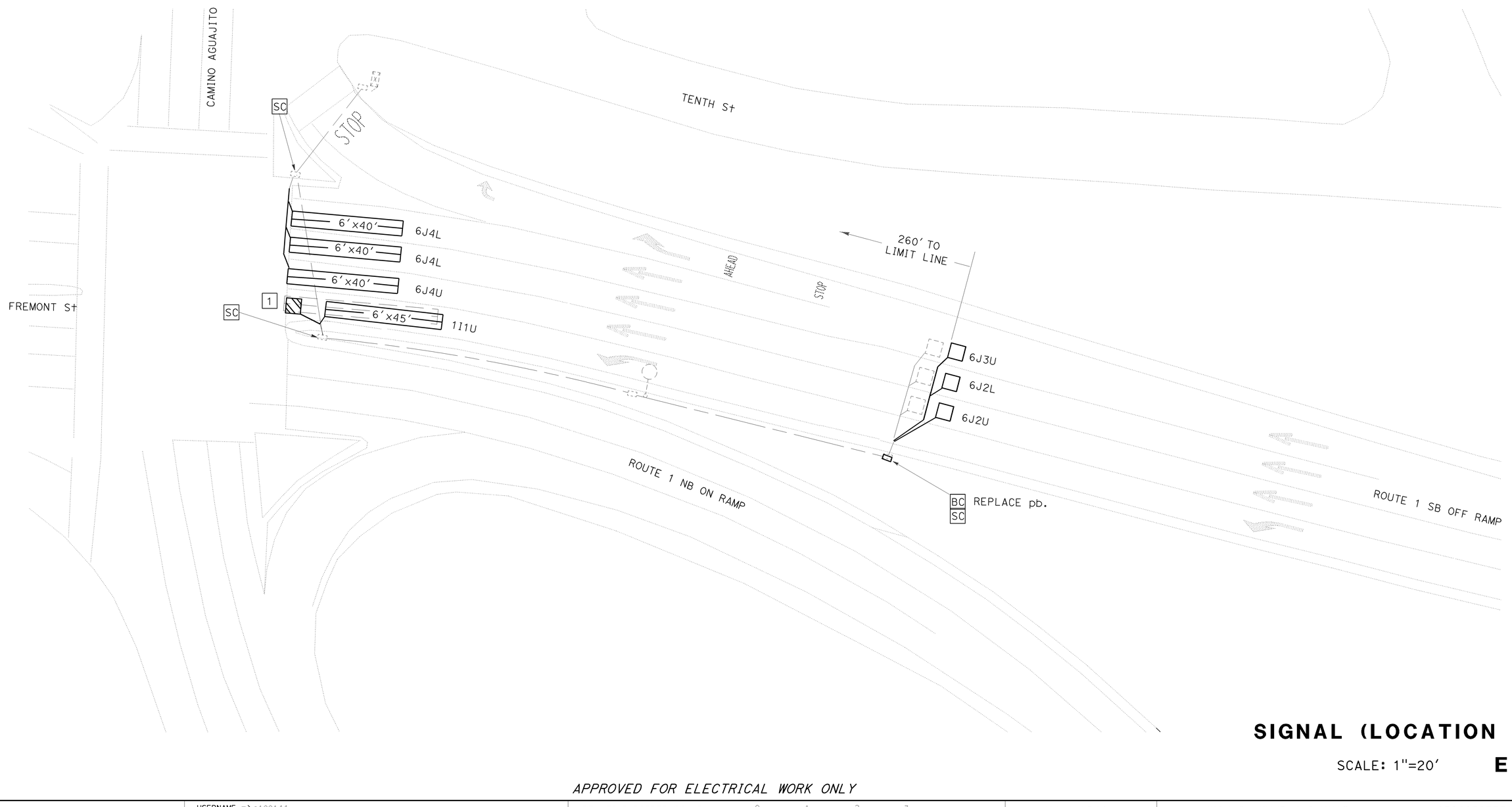
NOTES:

1. FOR LEGEND AND ADDITIONAL NOTES, REFER TO SHEET E-1.
2. EXISTING SIGNAL AND LIGHTING SYSTEM NOT SHOWN.
3. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



SIGNAL (LOCATION 2)

SCALE: 1"=20' **E-3**

APPROVED FOR ELECTRICAL WORK ONLY

CALCULATED-DESIGNED BY: KEN VOMASKE
CHECKED BY: JULIE M. GONZALEZ
REVISED BY
DATE REVISED
FUNCTIONAL SUPERVISOR: JULIE M. GONZALEZ
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC OPERATIONS

LAST REVISION 01-17-13
DATE PLOTTED => 23-JAN-2013
TIME PLOTTED => 10:34

BORDER LAST REVISED 7/2/2010
USERNAME => s109144
DGN FILE => 0500020337ua003.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1244
PROJECT NUMBER & PHASE 05000203371

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.6/R77.6	24	32

REGISTERED ELECTRICAL ENGINEER — 1-17-13 DATE

1-22-13 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — K.J.VOMASKE No. 15720 Exp 6-30-14 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 ON THIS SHEET ARE FOR INFORMATION ONLY AND NOT SEPARATE PAY ITEMS.

SIGNAL AND LIGHTING

SHEET No.	REPLACE SIGNAL FACE	No. 5 PB	No. 6 PB	CONDUCTORS				12 CSC	DLC	4" TYPE 1 CONDUIT	4" TYPE 3 CONDUIT	LOOP: TYPE D	LOOP: TYPE C
				#6	#8	#10	#14						
	EA	EA	EA	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA
E-1	2	2	1	150	150	100	1600	120	500	10	80	2	2

SIGNAL (LOCATION 1)

SHEET No.	LOOP: TYPE D	LOOP: TYPE C
	EA	EA
E-2	3	2

SIGNAL (LOCATION 2)

SHEET No.	LOOP: TYPE D	LOOP: TYPE C	LOOP: TYPE A	No. 5 PB
	EA	EA	EA	EA
E-3	1	4	3	1

ELECTRICAL QUANTITIES

E-4

REVISED BY | KEN VOMASKE
DATE REVISED | JULIE M. GONZALEZ
CALCULATED-DESIGNED BY | JULIE M. GONZALEZ
CHECKED BY | JULIE M. GONZALEZ
FUNCTIONAL SUPERVISOR | JULIE M. GONZALEZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC OPERATIONS

LAST REVISION 01-17-13 | DATE PLOTTED => 23-JAN-2013 | TIME PLOTTED => 10:35

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	I	74.9/R77.6	25	32

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

1-22-13
PLANS APPROVAL DATE

Gurinderpal Bhullar
No. C48815
Exp. 9-30-14
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.

TYPICAL LANE CLOSURE

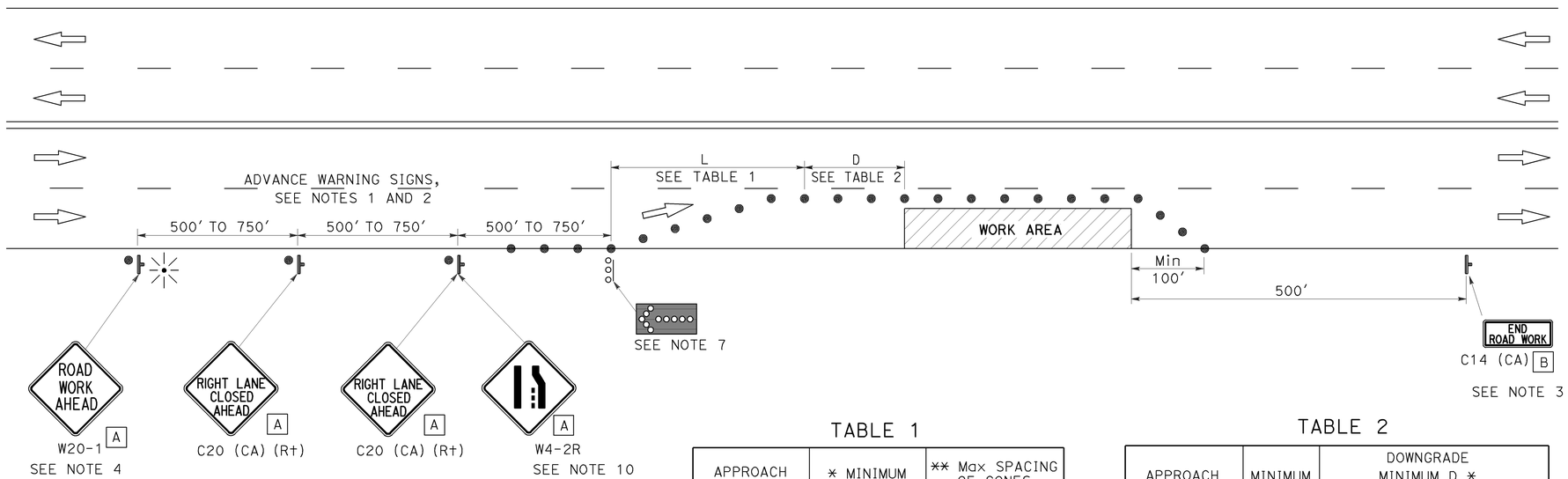


TABLE 1

APPROACH SPEED	* MINIMUM L	** Max SPACING OF CONES ALONG TAPER
mph	ft	ft
20 AND BELOW	80	20
25	125	25
30	180	30
35	245	35
40	320	40
45	540	45
50	600	50
Over 50	SEE NOTE 9	

* USE L FOR LANE WIDTHS LESS THAN OR EQUAL TO 12′.
** SEE NOTE 8.

TABLE 2

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
OVER 50	SEE NOTE 9			

* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.

NOTES:

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

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

LEGEND

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

SIGN PANEL SIZE (Min)

A — 36" × 36"
B — 36" × 18"

NOTES:

1. Where approach speeds are low, advance warning signs may be placed at 300′ spacing and placed closer in urban areas.
2. Each advance warning 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. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. A C14 (CA) "END ROAD WORK" sign, 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.
4. If the W20-1 sign would follow within 2000′ of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a C20 (CA) sign for the first advance warning sign.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Flashing arrow sign shall be either Type I or Type II.
8. The maximum spacing between cones along a tangent shall be 50′ and along a taper shall be approximately as shown in Table 1.
9. For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
10. When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-1

LAST REVISION 01-17-13
DATE PLOTTED => 10-DEC-2012
TIME PLOTTED => 09:45

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

BORDER LAST REVISED 7/2/2010
USERNAME =>
DGN FILE => 0500020337uj001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1251
PROJECT NUMBER & PHASE 05000203371

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	I	74.9/R77.6	26	32

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

1-22-13
PLANS APPROVAL DATE

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REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans®

LEGEND

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

TABLE 1

APPROACH SPEED	* MINIMUM L	** Max SPACING OF CONES ALONG TAPER
mph	ft	ft
20 and below	80	20
25	125	25
30	180	30
35	245	35
40	320	40
45	540	45
50	600	50
OVER 50	SEE NOTE 11	

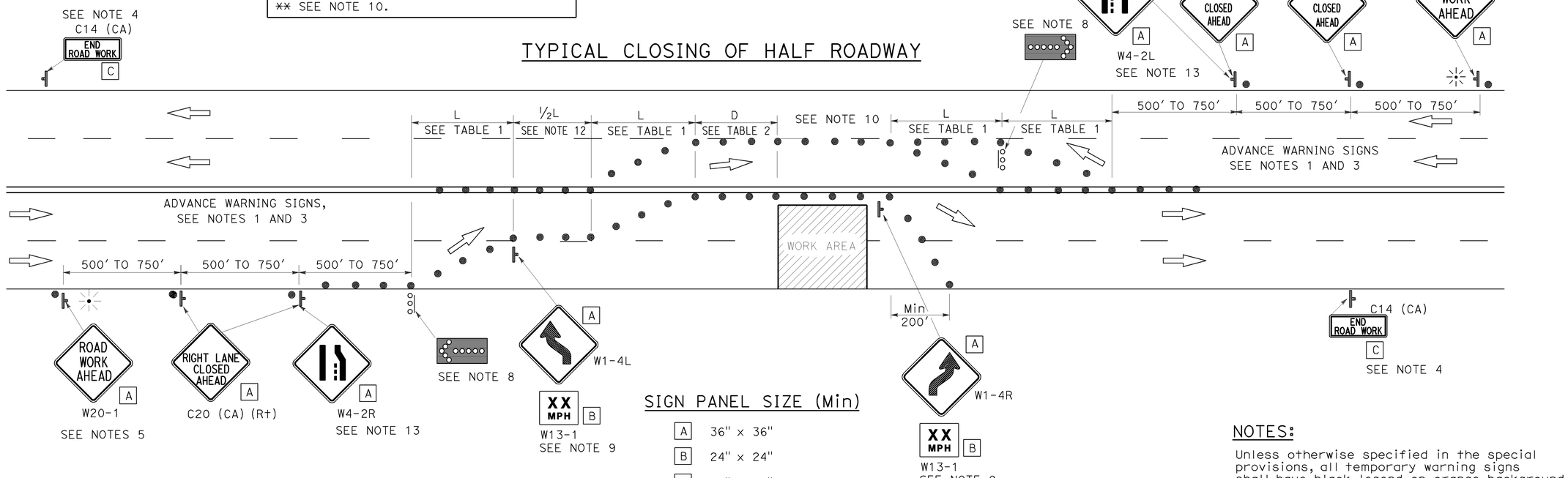
* USE L FOR LANE WIDTHS LESS THAN OR EQUAL TO 12'.
** SEE NOTE 10.

TABLE 2

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
OVER 50	SEE NOTE 11			

* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.

TYPICAL CLOSING OF HALF ROADWAY



SIGN PANEL SIZE (Min)

- A — 36" x 36"
- B — 24" x 24"
- C — 36" x 18"

NOTES:

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

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

NOTES:

1. Where Approach speeds are low, advance warning signs may be placed at 300' spacing and placed closer in urban areas.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.
3. Each advance warning sign in each direction of travel 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.
4. A C14 (CA) "END ROAD WORK" sign, 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.
5. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a C20 (CA) sign for the first advance warning sign.
6. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
7. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
8. Flashing arrow signs shall be either Type I or Type II.
9. Advisory speed will be determined by the Engineer. The W13-1 Sign will not be required when advisory speed is more than the posted or maximum speed limit.
10. The maximum spacing between cones along a tangent shall be 50' and along a taper shall be approximately as shown in Table 1.
11. For approach speeds over 50 mph, use the "Traffic Control System For Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
12. Unless otherwise specified in the special provisions, the (½ L) shown between the two (L) lane closure tapers shall be used.
13. When specified in the special provisions, a W4-2 "Lane Ends" symbol sign is to be used in place of the C20 (CA) "RIGHT (LEFT) LANE CLOSED AHEAD" sign.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-2

LAST REVISION | DATE PLOTTED => 10-DEC-2012
01-17-13 | TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	I	74.9/R77.6	27	32

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

1-22-13
PLANS APPROVAL DATE

Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

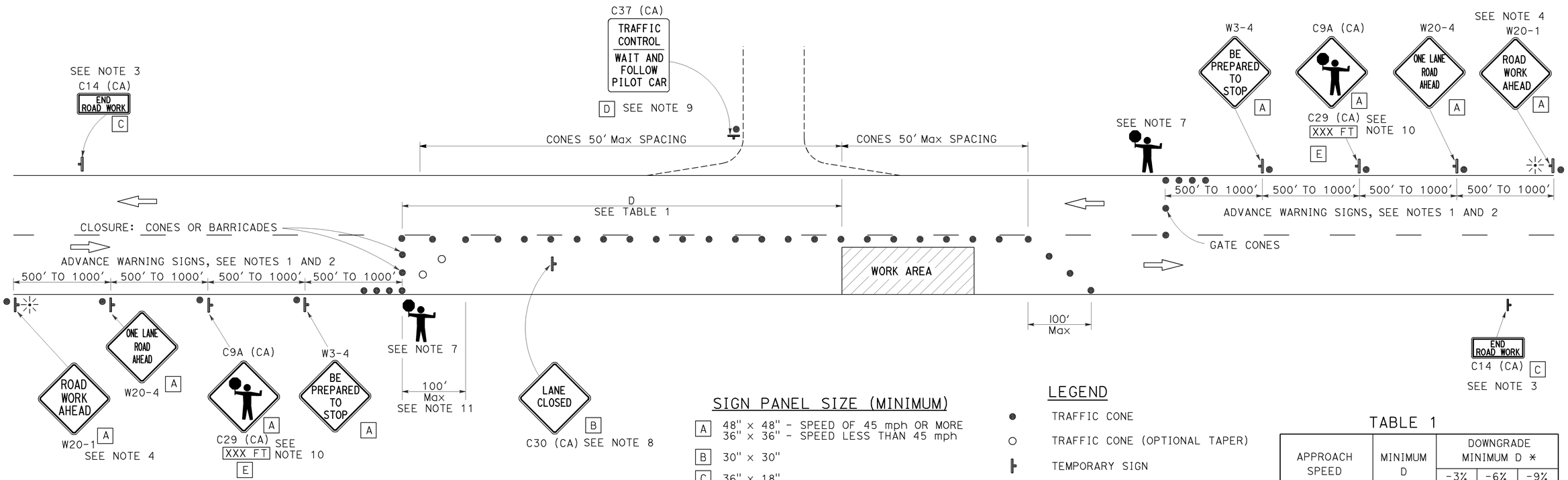
Caltrans

NOTES:

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

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

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



SIGN PANEL SIZE (MINIMUM)

- A — 48" x 48" - SPEED OF 45 mph OR MORE; 36" x 36" - SPEED LESS THAN 45 mph
- B — 30" x 30"
- C — 36" x 18"
- D — 36" x 42"
- E — 36" x 9"

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- TEMPORARY SIGN
- PORTABLE FLASHING BEACON
- FLAGGER

TABLE 1

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785

* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.

NOTES:

1. Where approach speeds are low, advance warning signs may be placed at 300' spacing, and closer in urban areas.
2. Each advance warning sign in each direction of travel 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.
3. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
4. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____MILES", use a W20-4 sign for the first advance warning sign.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
8. Place C30 (CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
9. When a pilot car is used, place a C37 (CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign at all intersections within traffic control area. Signs shall be clean and visible at all times.
10. An optional C29 (CA) sign may be placed below the C9A (CA) sign.
11. Traffic cones or barricades may be placed on the optional taper as shown, barricades shall be Type I, II, or III.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-3

LAST REVISION | DATE PLOTTED => 10-DEC-2012
01-17-13 | TIME PLOTTED => 09:45

TYPICAL RAMP CLOSURES

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	I	74.9/R77.6	28	32

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

1-22-13
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.

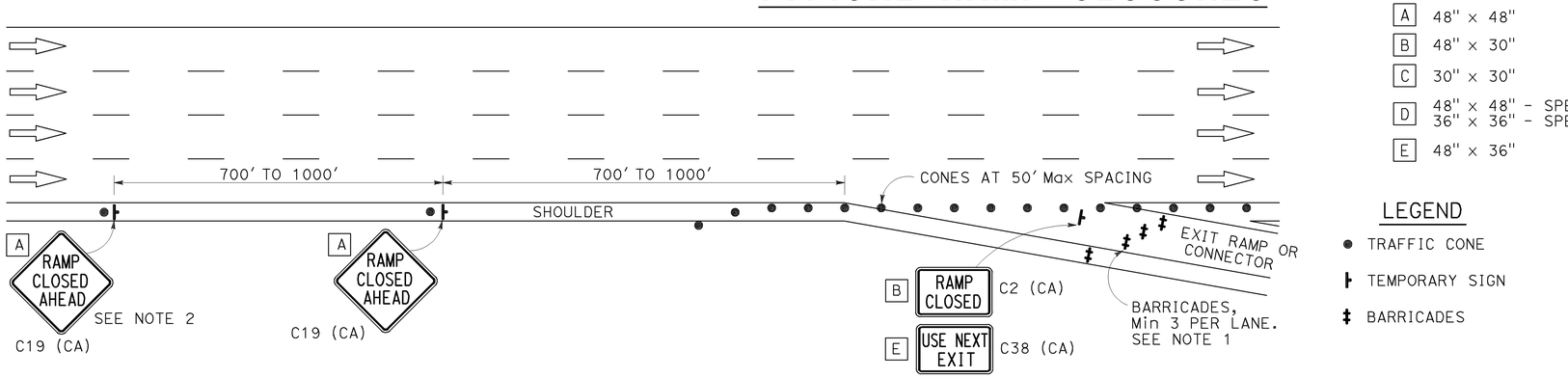
SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 30"
- C 30" x 30"
- D 48" x 48" - SPEED OF 50 mph OR MORE
  36" x 36" - SPEED LESS THAN 50 mph
- E 48" x 36"

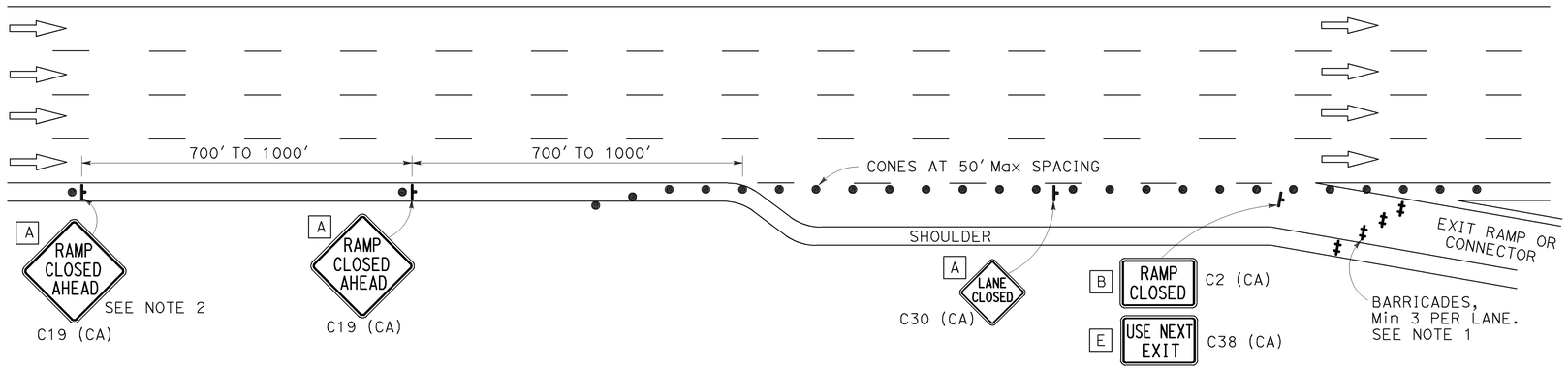
LEGEND

- TRAFFIC CONE
- TEMPORARY SIGN
- BARRICADES

EXIT RAMP OR CONNECTOR



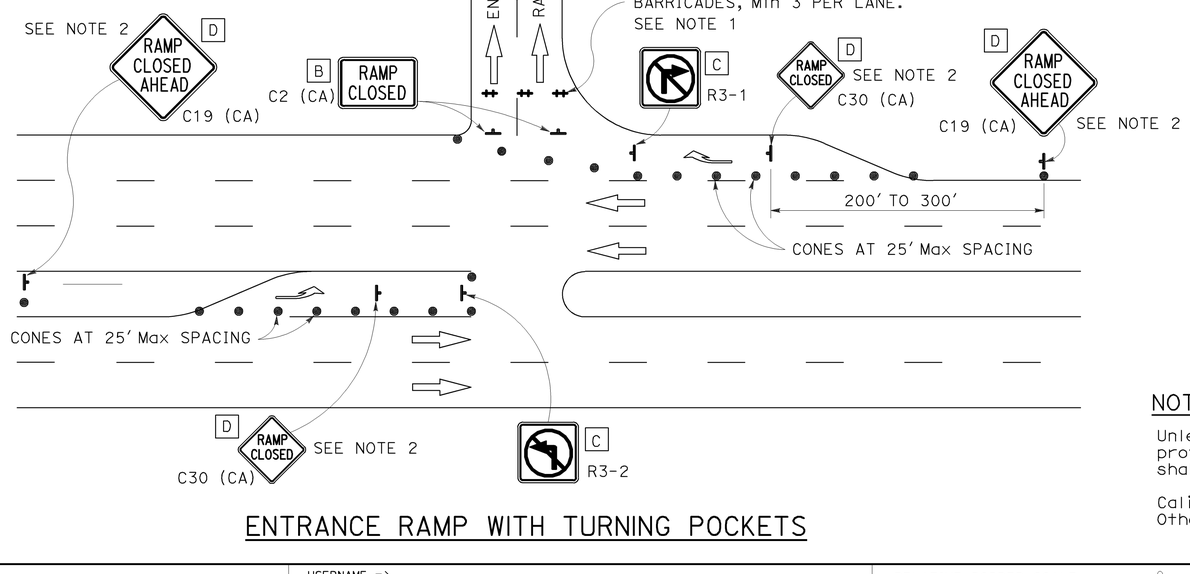
EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



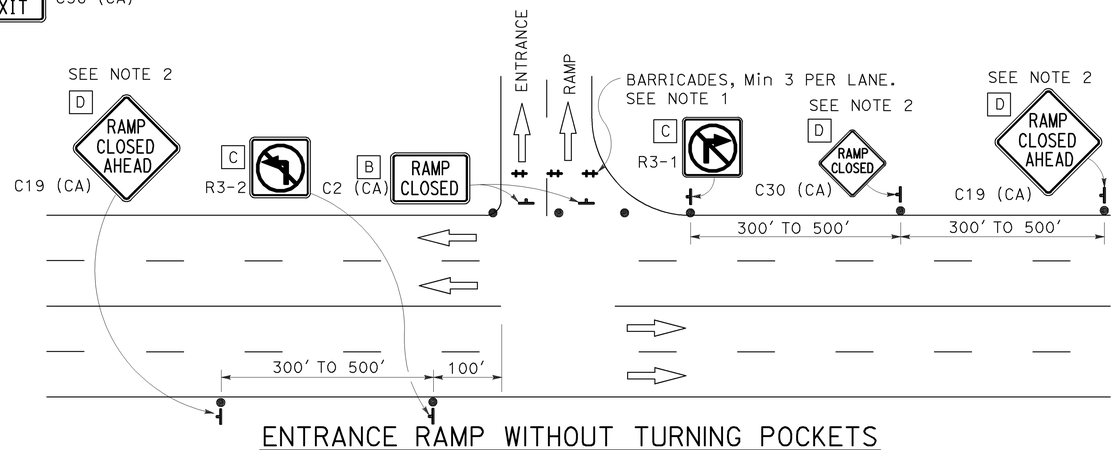
NOTES:

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.
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" sign in the gore area shall be covered during ramp closures.

ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS



NOTES:

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

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

NO SCALE

TCS-4

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION | DATE PLOTTED => 10-DEC-2012
01-17-13 | TIME PLOTTED => 09:45

BORDER LAST REVISED 7/2/2010 | USERNAME => DGN FILE => 0500020337uj004.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1251 | PROJECT NUMBER & PHASE 05000203371

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.9/R77.6	29	32

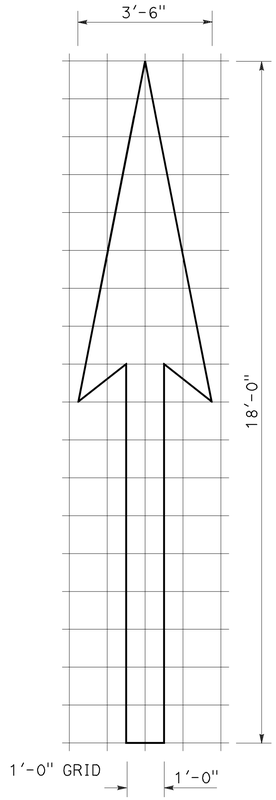
Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Roberta L. McLaughlin — No. C40375 — Exp. 3-31-13 — CIVIL — STATE OF CALIFORNIA

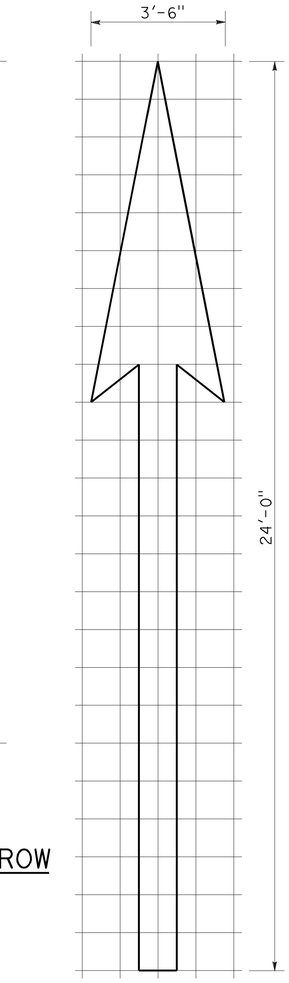
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 1-22-13



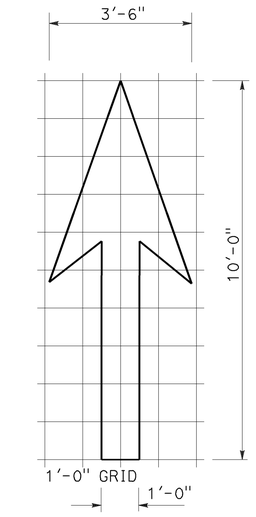
A=25 ft²

TYPE I 18'-0" ARROW



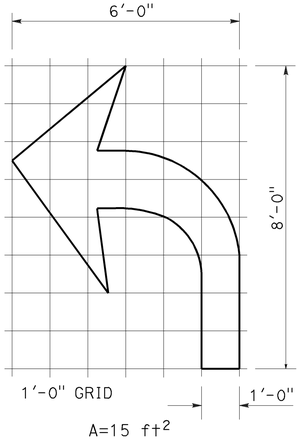
A=31 ft²

TYPE I 24'-0" ARROW



A=14 ft²

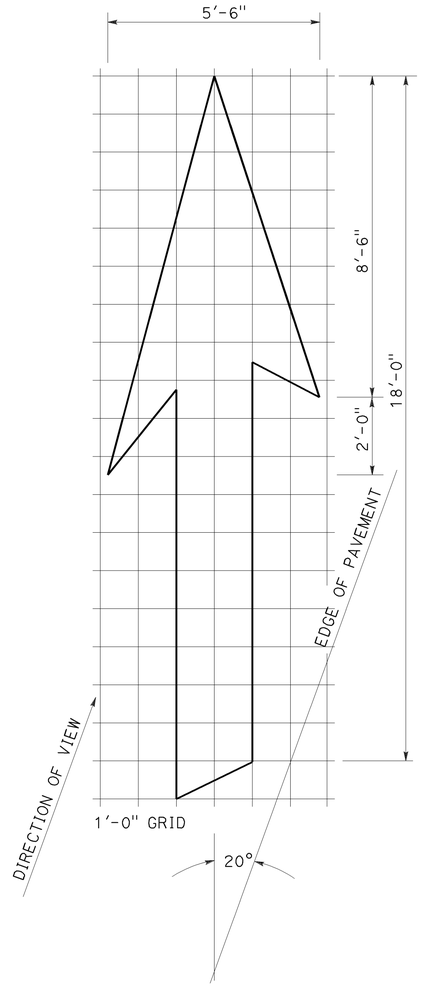
TYPE I 10'-0" ARROW



A=15 ft²

TYPE IV (L) ARROW

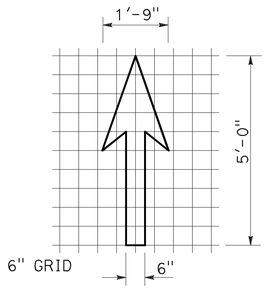
(For Type IV (R) arrow, use mirror image)



A=42 ft²

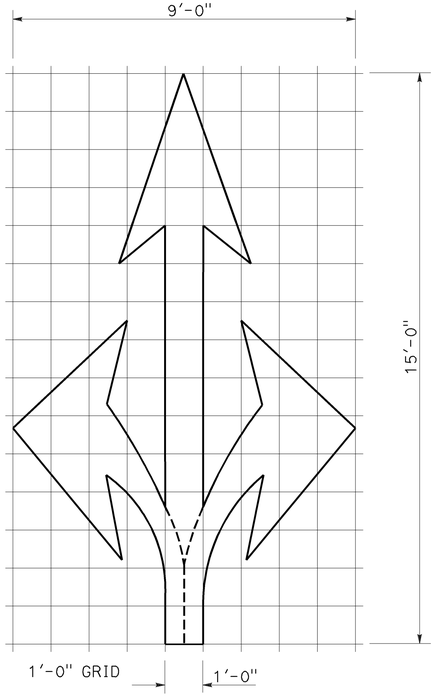
TYPE VI ARROW

Right lane drop arrow (For left lane, use mirror image)



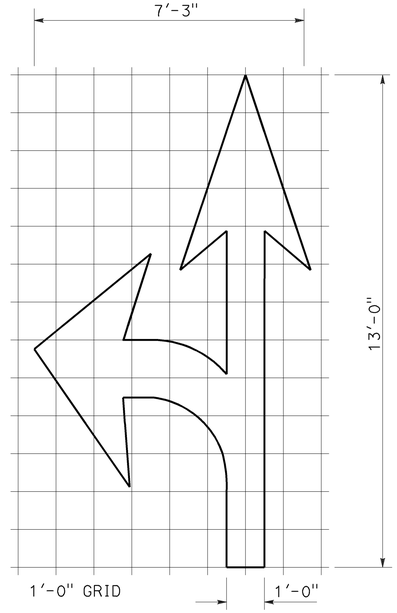
A=3.5 ft²

BIKE LANE ARROW



A=36 ft²

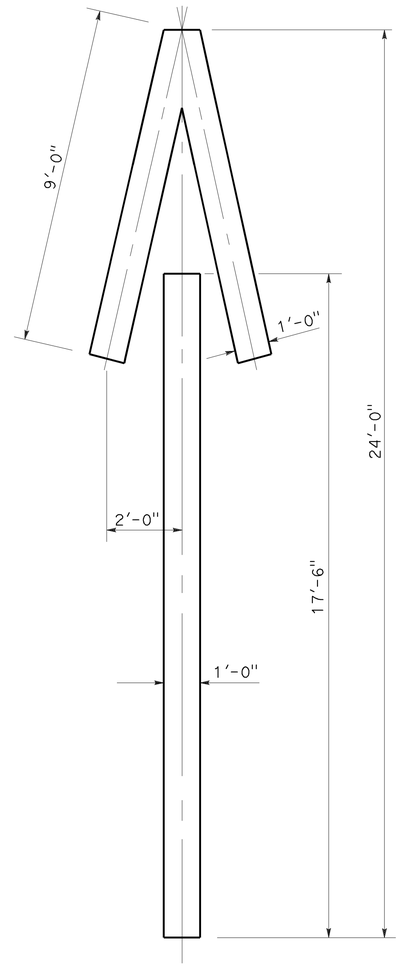
TYPE VIII ARROW



A=27 ft²

TYPE VII (L) ARROW

(For Type VII (R) arrow, use mirror image)



A=33 ft²

TYPE V ARROW

NOTE:
Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS ARROWS

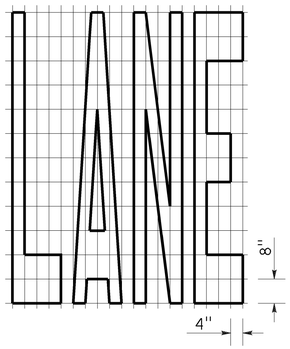
NO SCALE

RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

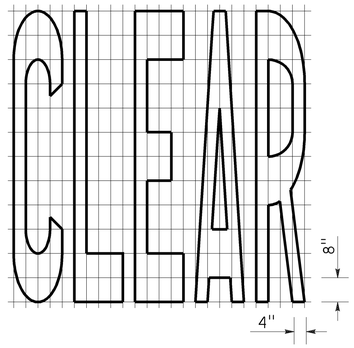
REVISED STANDARD PLAN RSP A24A

2010 REVISED STANDARD PLAN RSP A24A

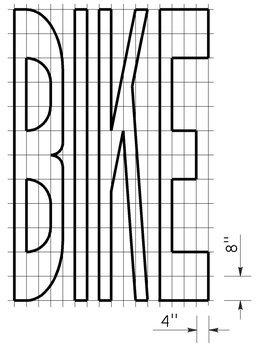
3-14-12



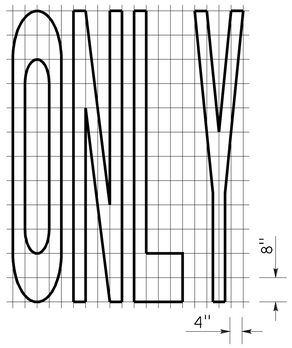
A=24 ft²



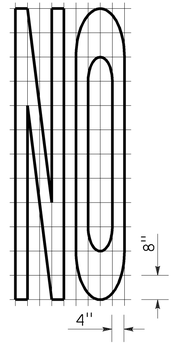
A=27 ft²



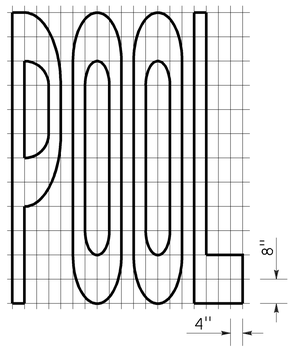
A=21 ft²



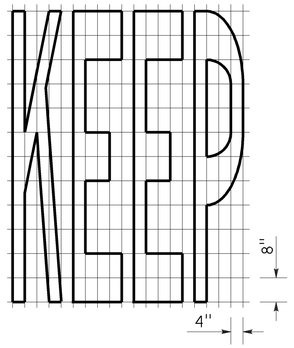
A=22 ft²



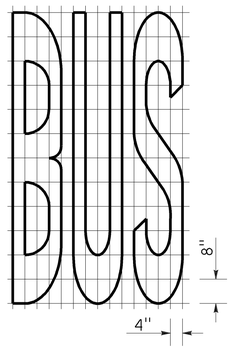
A=14 ft²



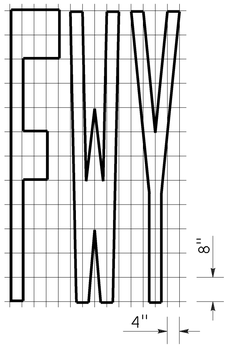
A=23 ft²



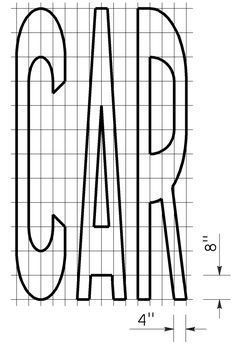
A=24 ft²



A=20 ft²



A=16 ft²



A=17 ft²

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	74.9/R77.6	30	32

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

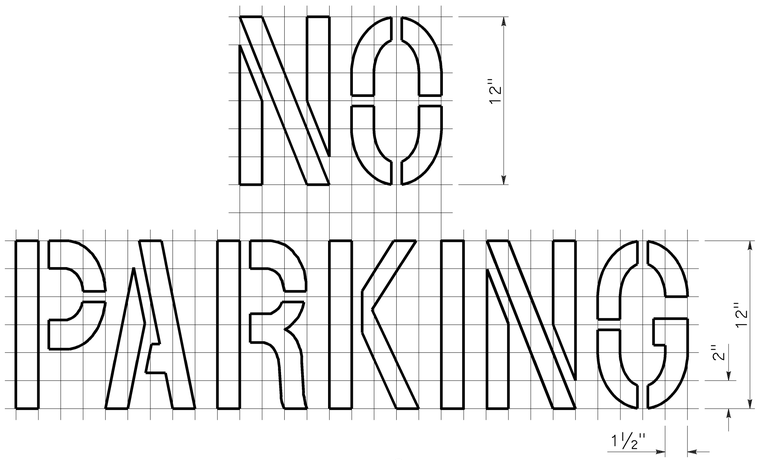
July 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

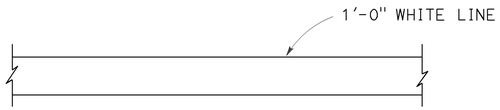
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 1-22-13

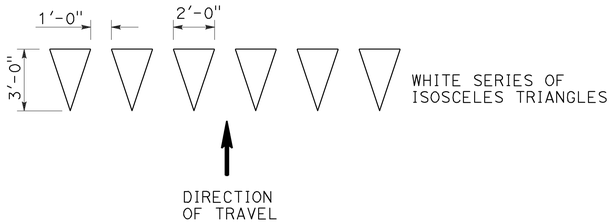
WORD MARKINGS			
ITEM	ft²	ITEM	ft²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft²
See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

1. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
2. The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
5. The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
6. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS
WORDS, LIMIT AND YIELD LINES

NO SCALE

RSP A24E DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN A24E
DATED MAY 20, 2011 - PAGE 17 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24E

2010 REVISED STANDARD PLAN RSP A24E

6-12-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	I	74.9/R77.6	31	32

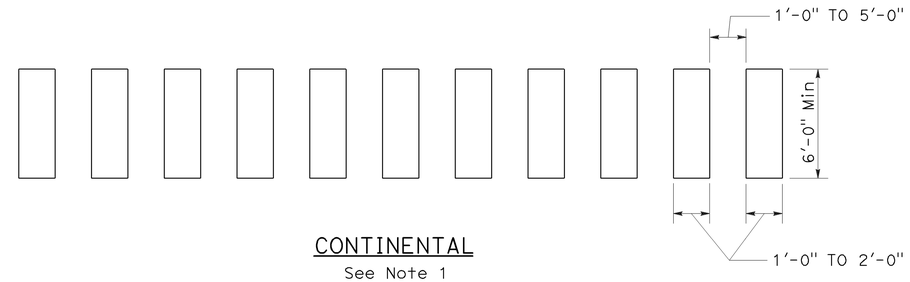
Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

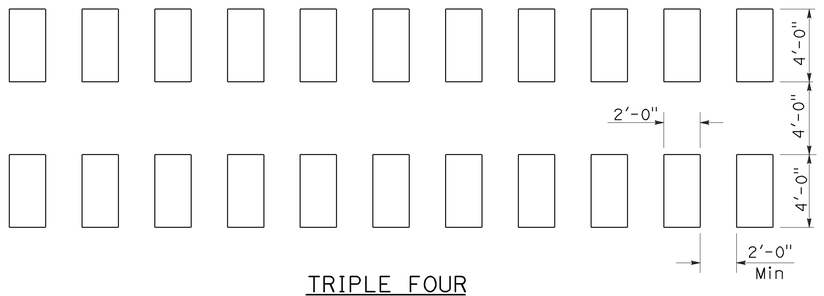
REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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.

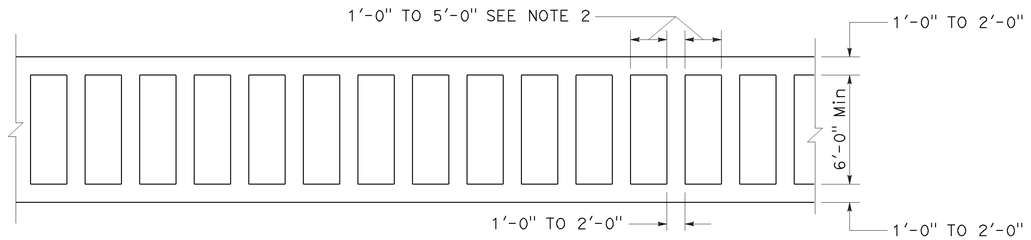
TO ACCOMPANY PLANS DATED 1-22-13



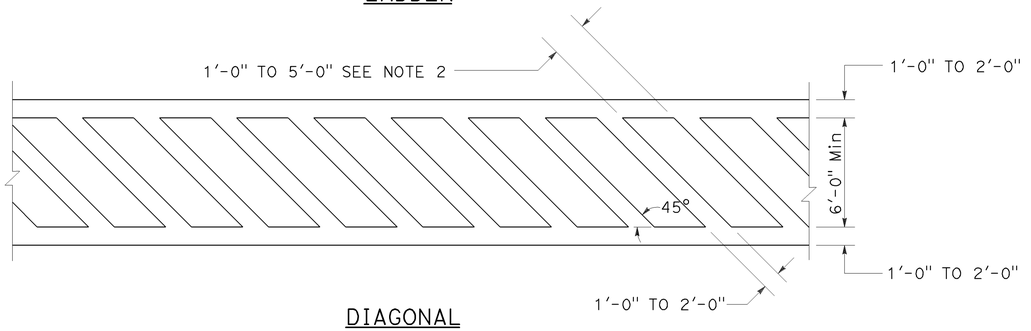
CONTINENTAL
See Note 1



TRIPLE FOUR
See Note 1



LADDER

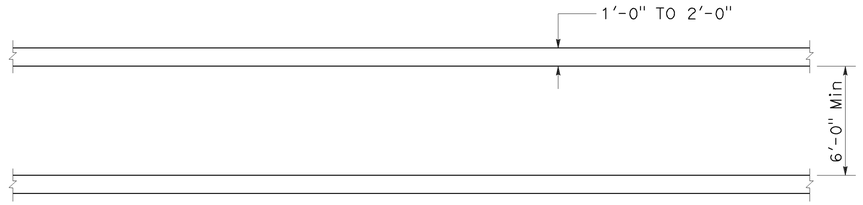


DIAGONAL

HIGHER VISIBILITY CROSSWALKS

NOTES:

1. Spaces between markings should be placed in wheel tracks of each lane.
2. Spacings not to exceed 2.5 times width of longitudinal line.
3. All crosswalk markings must be white except for those near schools must be yellow.



BASIC

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS CROSSWALKS

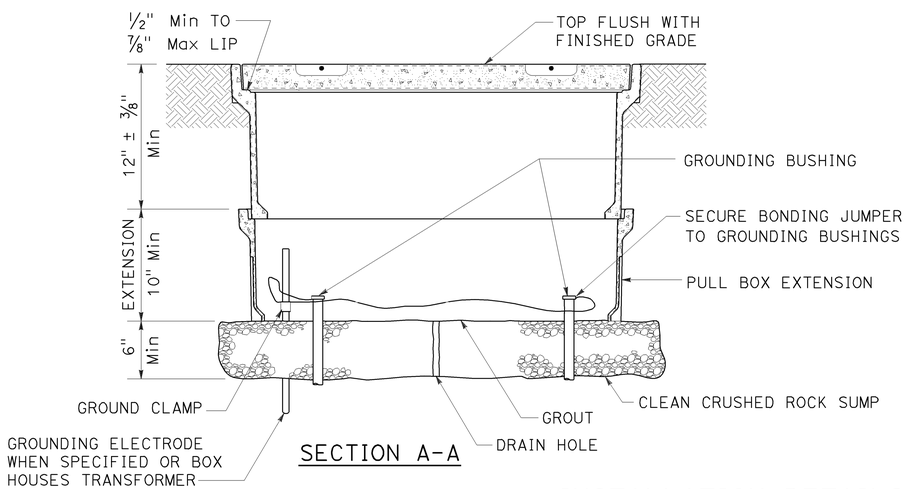
NO SCALE

RSP A24F DATED JULY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

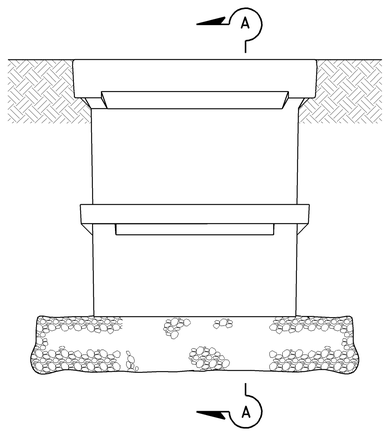
REVISED STANDARD PLAN RSP A24F

2010 REVISED STANDARD PLAN RSP A24F

6-28-12



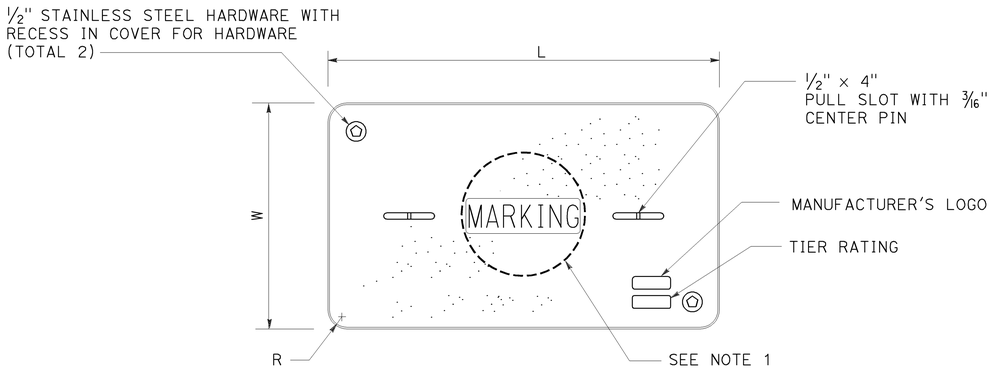
SECTION A-A



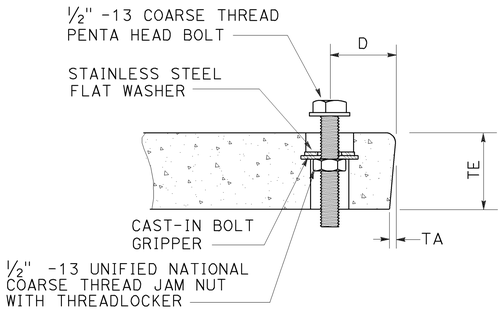
SIDE VIEW

INSTALLATION DETAILS

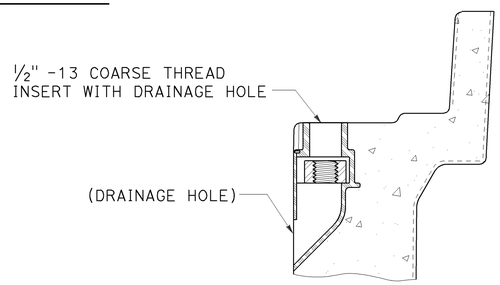
DETAIL A



COVER TOP VIEW



TYPICAL COVER CAPTIVE BOLT
OR SIMILAR



TYPICAL THREADED INSERT
OR SIMILAR

DIMENSION TABLE										
PULL BOX	PULL BOX			COVER						
	MINIMUM DEPTH BOX	MINIMUM DEPTH EXTENSION	MAXIMUM WEIGHT	L	W	R	TE	TA	D	MAXIMUM WEIGHT
No. 3½	12"	N/A	40 lb	1′ - 3⅜"	10⅛"	1⅜"	2"	⅛"	1¾"	30 lb
No. 5	12"	10"	55 lb	1′ - 11¼"	1′ - 1¾"	1⅜"	2"	⅛"	1¾"	60 lb
No. 6	12"	10"	70 lb	2′ - 6½"	1′ - 5½"	1⅜"	2"	⅛"	2"	85 lb

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	Mon	1	74.9/R77.6	32	32

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

January 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Jeffery G. McRae — No. E14512 — Exp. 6-30-12 — 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.

TO ACCOMPANY PLANS DATED 1-22-13

NOTES ON PULL BOXES:

1. Pull box covers must 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 pull box.
      1) "SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
      2) "ST LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.

   B) No. 5, 6, 9 or 9A pull box.
      1) "TRAFFIC SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
      2) "STREET LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
      3) "STREET LIGHTING-HIGH VOLTAGE" - Street 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) "COMMUNICATIONS" - Communication circuits.
      8) "TOS COMMUNICATIONS" - TOS communication 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.

2. The nominal dimensions of the opening in which the cover sets must be the same as the cover dimensions (L and W) plus ⅛" or greater.
3. Covers and boxes must be interchangeable with California Standard. When interchanged with a standard, the top surfaces must be flush within ⅛". Top outside radius of covers and pull boxes must have a ⅛" radius.
4. Pull box extension may be another pull box as long as the bottom edge of the pull box can fit into the cover opening.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (PULL BOX)

NO SCALE

RSP ES-8A DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-8A

2010 REVISED STANDARD PLAN RSP ES-8A

01-09-12