Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	1	30

INDEX OF 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

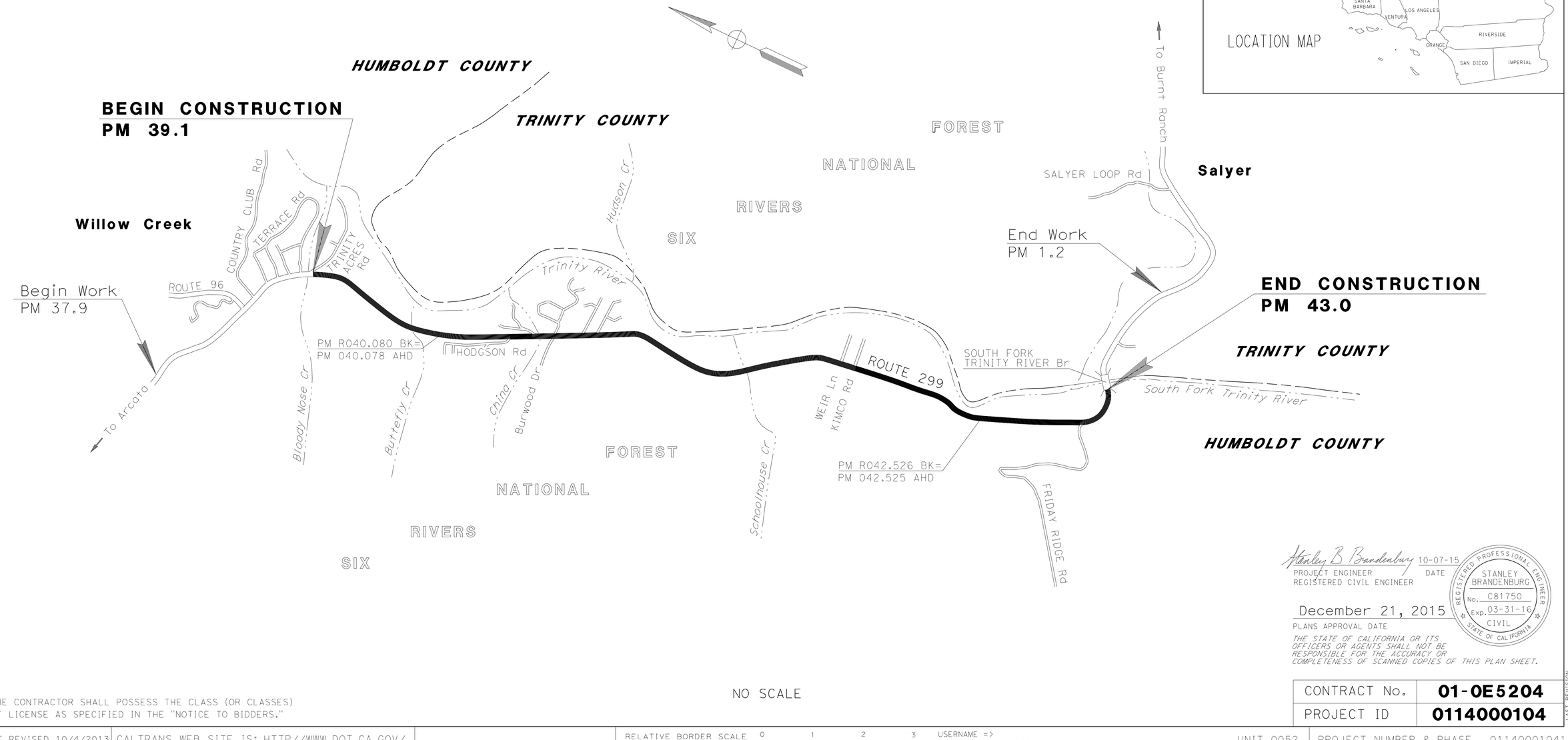
PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN HUMBOLDT COUNTY
NEAR WILLOW CREEK
FROM .3 MILE EAST OF ROUTE 96
TO SOUTH FORK TRINITY RIVER BRIDGE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

LOCATION MAP



NO SCALE

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

Stanley B. Brandenburg 10-07-15
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
STANLEY BRANDENBURG
No. C81750
Exp. 03-31-16
CIVIL
STATE OF CALIFORNIA

December 21, 2015
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.	01-0E5204
PROJECT ID	0114000104

P:\PROJ\01\0e520\drafting\Sheets\01140001041ab001.dgn
DESIGN MANAGER Tom Fitzgerald
PROJECT MANAGER Tom Fitzgerald
LAST REVISION DATE PLOTTED => 24-DEC-2015
00-00-00 TIME PLOTTED => 11:18

BORDER LAST REVISED 10/4/2013 | CALTRANS WEB SITE IS: HTTP//WWW.DOT.CA.GOV/ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => DGN FILE => 10e520ab001 | UNIT 0052 | PROJECT NUMBER & PHASE 01140001041

NOTES:

1. IN AREAS WHERE THE WIDTH OF THE EXISTING SURFACING VARIES FROM THAT SHOWN, VARY THE WIDTH OF THE PAVING OPERATIONS AS DIRECTED BY THE ENGINEER.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

ABBREVIATIONS:

BWC-G HMA (BONDED WEARING COURSE, GAP-GRADED)

PAVEMENT CLIMATE REGION

NORTH COAST

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	2	30

Stanley B. Brandenburg 10-07-15
REGISTERED CIVIL ENGINEER DATE

December 21, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — STANLEY BRANDENBURG — No. C81750 — Exp. 03-31-16 — CIVIL — STATE OF CALIFORNIA

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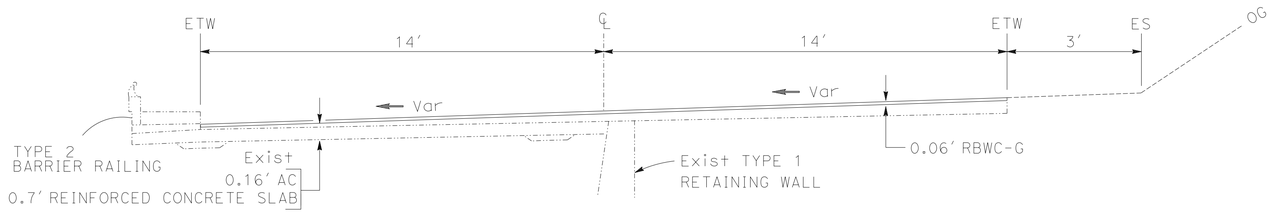
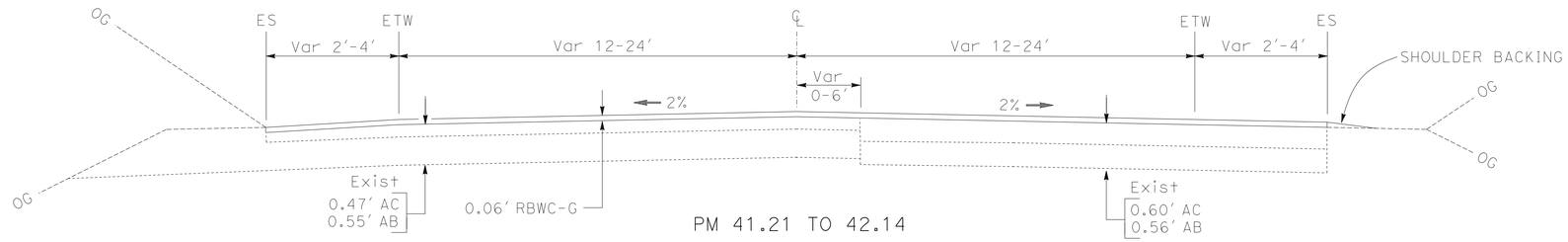
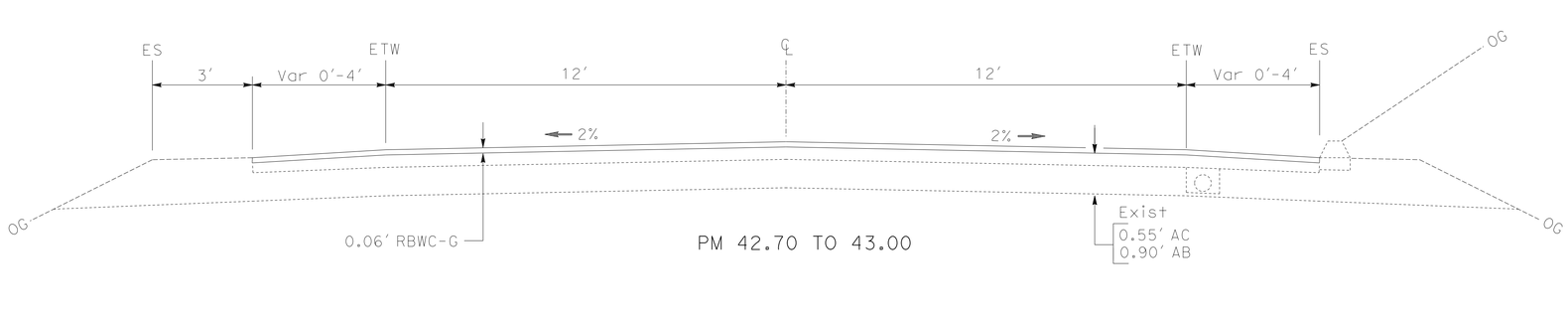


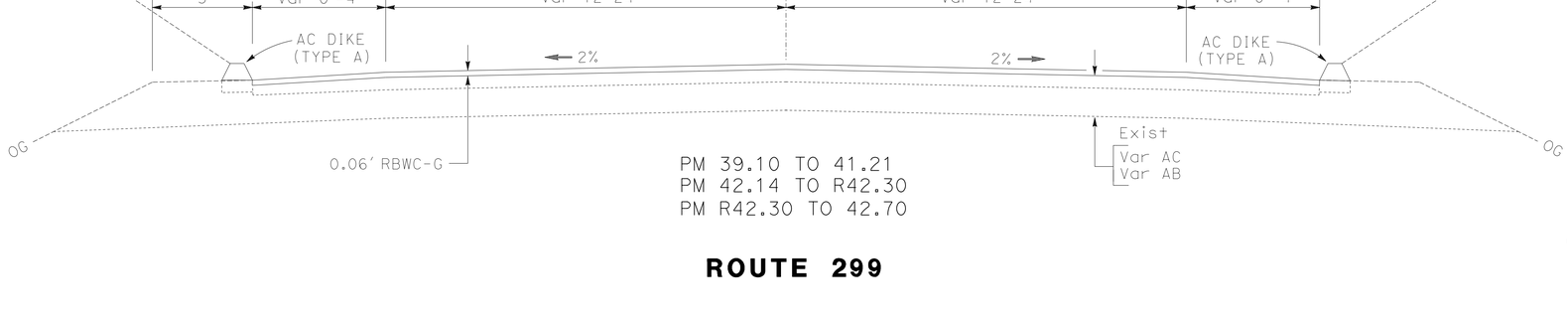
MARTIN BLUFF VIADUCT
PM R42.30-R42.32



PM 41.21 TO 42.14



PM 42.70 TO 43.00



PM 39.10 TO 41.21
PM 42.14 TO R42.30
PM R42.30 TO 42.70

ROUTE 299

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: T. J. FITZGERALD

CALCULATED-DESIGNED BY: GAVIN KEATING
CHECKED BY: STAN BRANDENBURG

REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 24-DEC-2015
00-00-00 | TIME PLOTTED => 11:19

BORDER LAST REVISED 7/2/2010

USERNAME => gavin keating
DGN FILE => 10e520ca001.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0052

PROJECT NUMBER & PHASE 01140001041

NOTES:

1. IN AREAS WHERE THE WIDTH OF THE EXISTING SURFACING VARIES FROM THAT SHOWN, THE CONTRACTOR SHALL VARY THE WIDTH OF THE PAVING OPERATIONS AS DIRECTED BY THE ENGINEER.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
3. EXACT LOCATIONS OF REPLACE AC SURFACING TO BE DETERMINED BY ENGINEER.

LEGEND:

- LIMITS OF COLD PLANE AC PAVEMENT PRIOR TO BWC-G OVERLAY
- LIMITS OF REPLACE AC SURFACING
- LIMITS OF BWC-G OVERLAY
- (X) LOCATION NUMBER OF REPLACE AC SURFACING
- [X] ADJUST UTILITY COVER TO GRADE

ABBREVIATIONS:

BWC-G - HMA (BONDED WEARING COURSE, GAP-GRADED)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	3	30

Stanley B. Brandenburg 10-07-15
REGISTERED CIVIL ENGINEER DATE

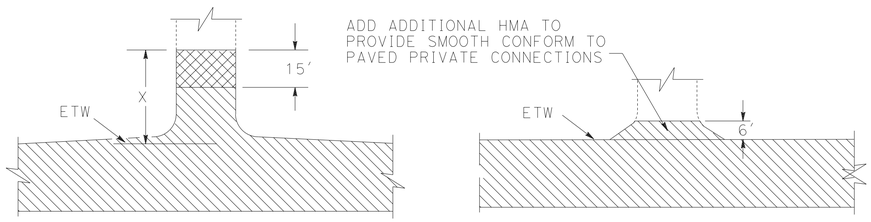
December 21, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — STANLEY BRANDENBURG — No. C81750 — Exp 03-31-16 — 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.

PUBLIC ROAD CONNECTION

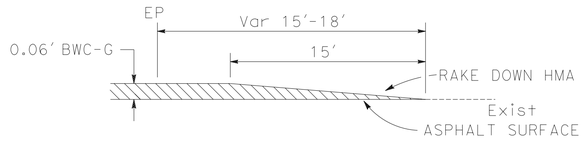
LOCATION	PM	X FT
CHINA CREEK ROAD	40.15 Rt	18
GAMBIS DRIVE	40.34 Rt	15
BURWOOD DRIVE	40.34 Lt	18
ENCHANTED SPRINGS LANE	41.17 Rt	16
CAMPORA DRIVE	41.67 Lt	15
WEIR LANE	41.75 Lt	15
MARTIN ROAD	42.87 Lt	18
FRIDAY RIDGE ROAD	42.87 Rt	18



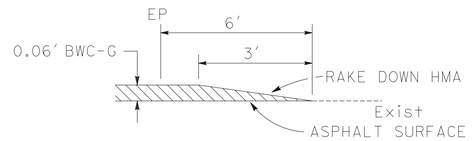
PUBLIC ROAD CONNECTION PLAN

PRIVATE ROAD CONNECTION PLAN

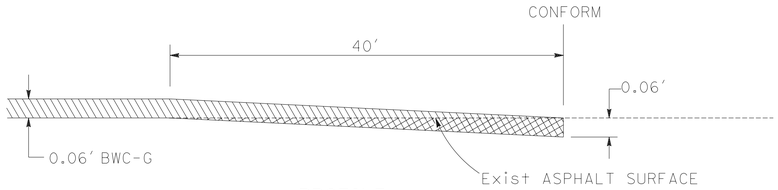
LIMITS OF COLD PLANE AC PAVEMENT AND PAVING AT ROAD CONNECTIONS



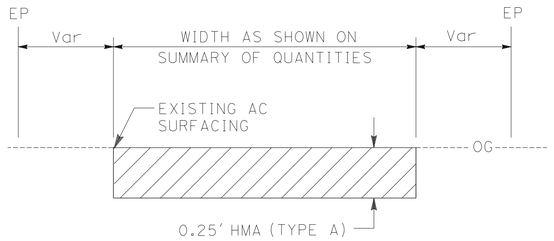
HMA CONFORM AT PUBLIC ROAD CONNECTIONS



HMA CONFORM AT PRIVATE ROAD CONNECTIONS

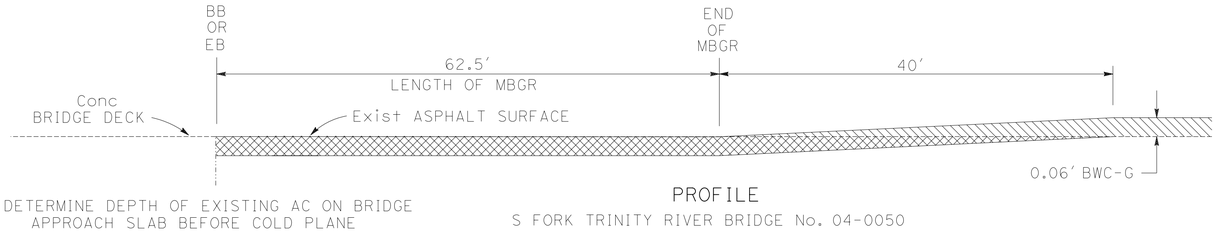


PROFILE
PM 39.1 BEGIN PAVING



REPLACE ASPHALT CONCRETE SURFACING

LOCATIONS AS SHOWN ON SUMMARY OF QUANTITIES



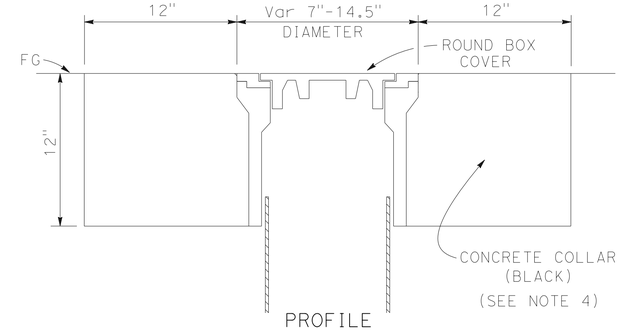
* DETERMINE DEPTH OF EXISTING AC ON BRIDGE APPROACH SLAB BEFORE COLD PLANE

PROFILE
S FORK TRINITY RIVER BRIDGE No. 04-0050

LIMITS OF COLD PLANE AC PAVEMENT

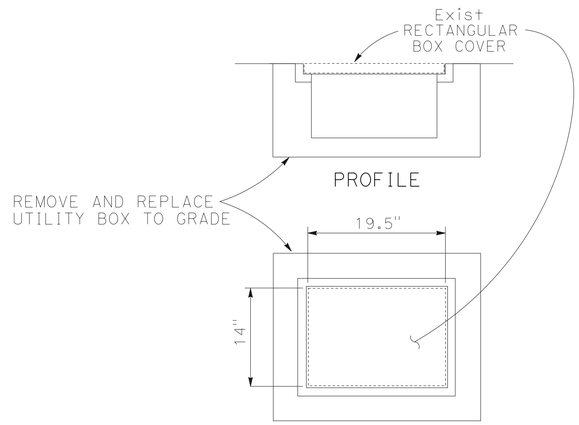
NOTES:

1. PLACE SHIMS UNDER THE FRAME AND COVER ON TOP OF THE HIGHEST GRADE RING AS NEEDED SUCH THAT THE FRAME AND COVER ARE FLUSH WITH THE FINISHED GRADE OF THE STREET. THE MINIMUM SHIM HEIGHT IS 1". CONCRETE SHALL BE PLACED IN BETWEEN THE HIGHEST GRADE RING AND THE SHIMMED FRAME AND LID WHEN THE CONCRETE COLLAR IS CONSTRUCTED, IN EFFECT CREATING A 'CAST-IN-PLACE' GRADE RING OF VARYING THICKNESS.
2. SEAL ALL GRADE RINGS WITH NON-SHRINK GROUT ON BOTH INNER AND OUTER FACES OF EACH JOINT.
3. COMPLETELY DEMOLISH EXISTING CONCRETE COLLARS TO A DEPTH OF 12".
4. NO AREA AVAILABLE FOR "TEMPORARY CONCRETE WASHOUT FACILITY" WITHIN STATE RIGHT-OF-WAY. USE A "PORTABLE TEMPORARY CONCRETE WASHOUT" OR A "TEMPORARY CONCRETE WASHOUT".



PROFILE

ROUND BOX



PLAN

RECTANGULAR BOX

ADJUST UTILITY COVER TO GRADE

CONSTRUCTION DETAILS

NO SCALE

C-1

REVISED BY | DATE REVISED
GAVIN KEATING | STAN BRANDENBURG
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: T. J. FITZGERALD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

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LAST REVISION | DATE PLOTTED => 24-DEC-2015
00-00-00 | TIME PLOTTED => 11:19

BORDER LAST REVISED 7/2/2010 | USERNAME => gavin keating | DGN FILE => 10e520ga001 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0052 | PROJECT NUMBER & PHASE 0114000104

NOTES:

1. IN AREAS WHERE THE WIDTH OF THE EXISTING SURFACING VARIES FROM THAT SHOWN, THE CONTRACTOR SHALL VARY THE WIDTH OF THE PAVING OPERATIONS AS DIRECTED BY THE ENGINEER.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	HUM	299	39.1/43.0	4	30

Stanley B. Brandenburg 10-07-15
REGISTERED CIVIL ENGINEER DATE

December 21, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — STANLEY BRANDENBURG — No. C81750 — Exp 03-31-16 — CIVIL — STATE OF CALIFORNIA

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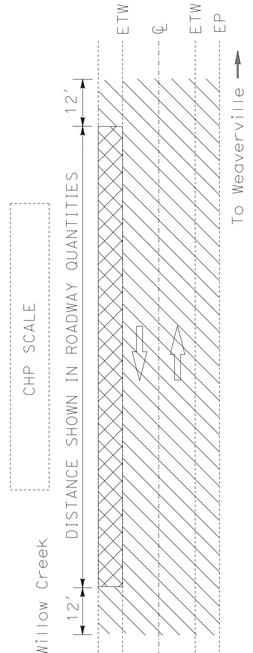
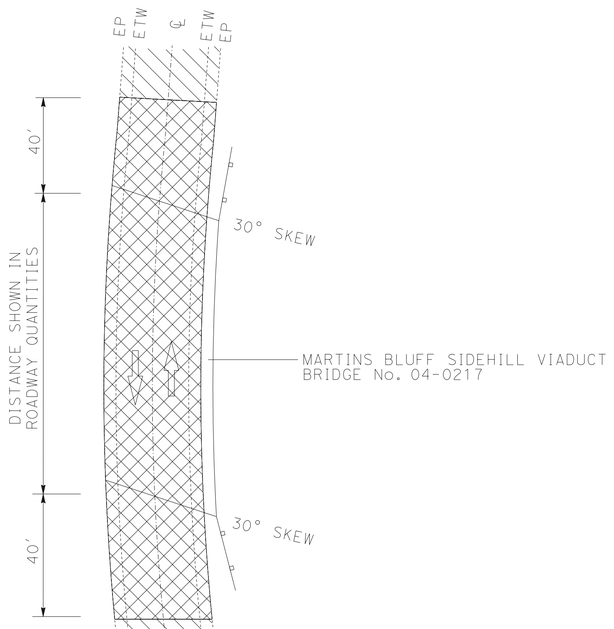


PLAN

LIMITS OF COLD PLANE AT CHP SCALE

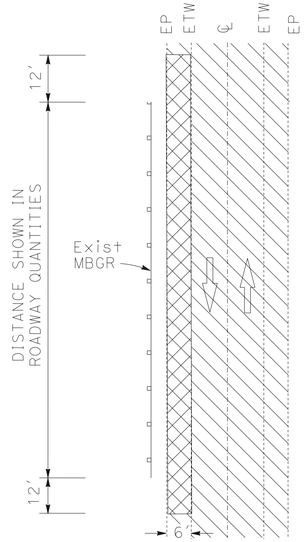


PLAN

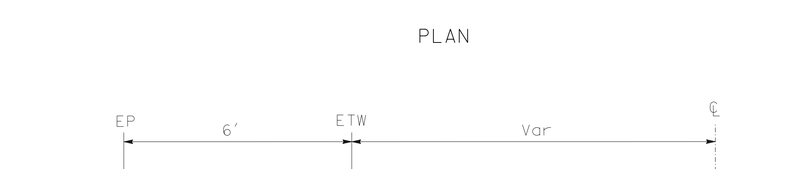
PROFILE

PM 42.29
PM 42.31

COLD PLANE AC PAVEMENT AT MARTIN BLUFF VIADUCT



PLAN



COLD PLANE AC PAVEMENT AT MBGR

CONSTRUCTION DETAILS

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

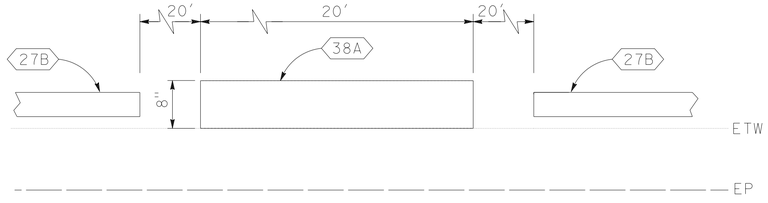
FUNCTIONAL SUPERVISOR: T. J. FITZGERALD
CALCULATED-DESIGNED BY
CHECKED BY
GAVIN KEATING
STAN BRANDENBURG
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 24-DEC-2015
01-20-15 TIME PLOTTED => 11:19

BORDER LAST REVISED 7/2/2010 | USERNAME => gavin keating | DGN FILE => 10e520ga002 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0052 | PROJECT NUMBER & PHASE 0114000104

NOTES:

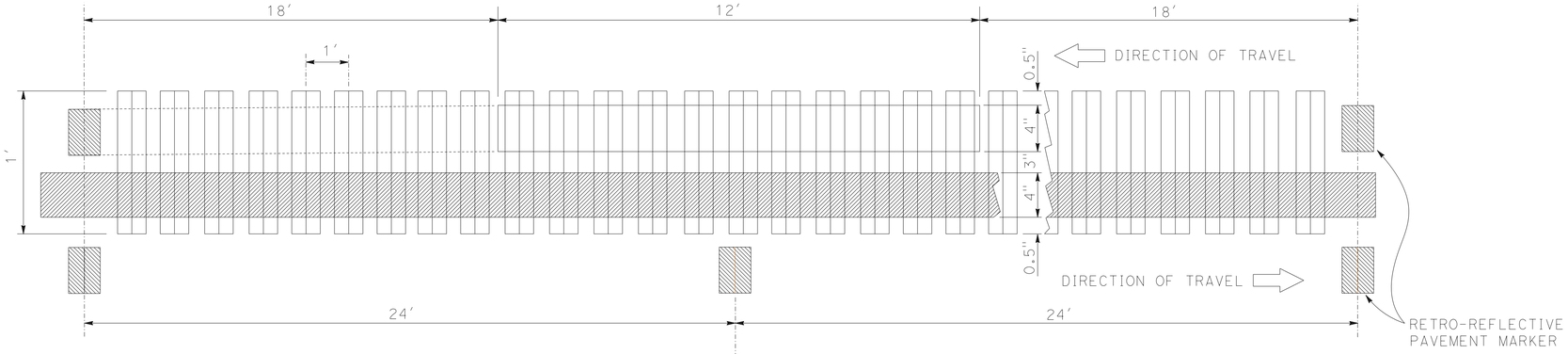
1. RUMBLE STRIP, AS SHOWN ON THIS PLAN SHALL NOT BE CONSTRUCTED ON BRIDGE DECKS, BRIDGE APPROACH SLABS, RAMPS, PUBLIC AND PRIVATE ROAD APPROACHES AND MINOR DRIVEWAYS.
2. FOR 'GROUND-IN RUMBLE STRIP' APPLICATIONS NOT SHOWN, SEE 2010 STANDARD PLANS, A40B.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS



PLAN

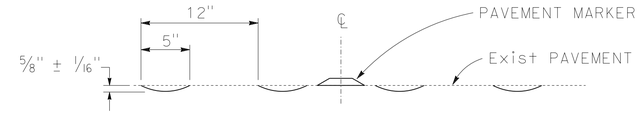
AERIAL ENFORCEMENT MARKING

EASTBOUND ROUTE 299 ONLY



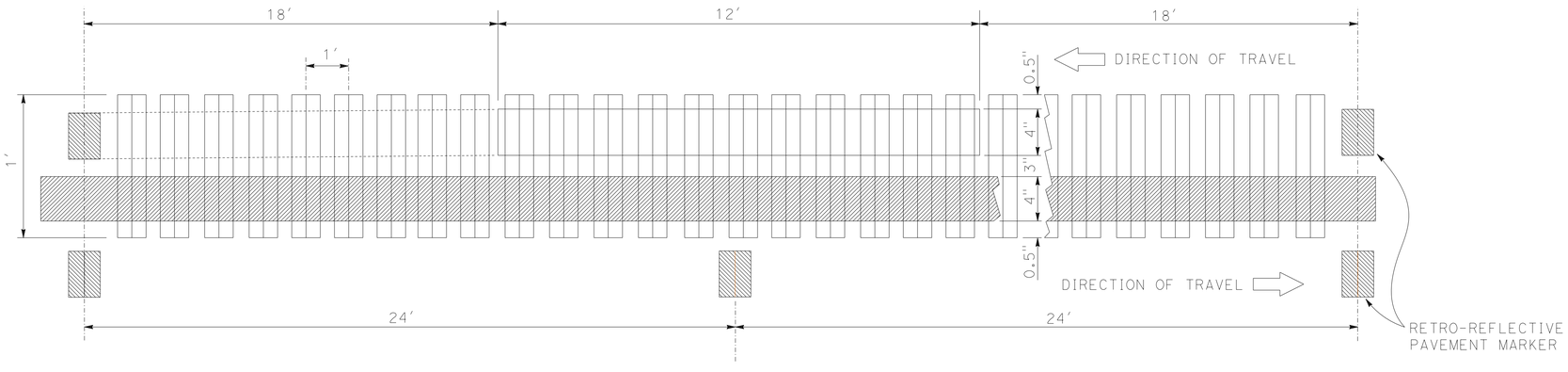
PLAN

CENTERLINE GROUND-IN RUMBLE STRIP / DETAIL 32



ELEVATION

CENTER MEDIAN AREA



PLAN

CENTERLINE GROUND-IN RUMBLE STRIP / DETAIL 19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	5	30

Stanley B. Brandenburg 10-07-15
REGISTERED CIVIL ENGINEER DATE

December 21, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STANLEY BRANDENBURG
No. C81750
Exp. 03-31-16
CIVIL
STATE OF CALIFORNIA

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CONSTRUCTION DETAILS

NO SCALE

C-3

REVISED BY	DATE REVISED
GAVIN KEATING	STAN BRANDENBURG

CALCULATED-DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR: T. J. FITZGERALD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION | DATE PLOTTED => 24-DEC-2015
00-00-00 | TIME PLOTTED => 11:19

BORDER LAST REVISED 7/2/2010 | USERNAME => gavin keating | DGN FILE => 10e520ga003 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0052 | PROJECT NUMBER & PHASE 0114000104

NOTES:

1. RUMBLE STRIP, AS SHOWN ON THIS PLAN SHALL NOT BE CONSTRUCTED ON BRIDGE DECKS, BRIDGE APPROACH SLABS, RAMPS, PUBLIC AND PRIVATE ROAD APPROACHES AND MINOR DRIVEWAYS.
2. FOR 'GROUND-IN RUMBLE STRIP' APPLICATIONS NOT SHOWN, SEE 2010 STANDARD PLANS, A40B.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

LEGEND:

⇨ DIRECTION OF TRAVEL

RUMBLE STRIP (GROUND-IN)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	6	30

Stanley B. Brandenburg 10-07-15
REGISTERED CIVIL ENGINEER DATE

December 21, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — STANLEY BRANDENBURG — No. C81750 — Exp. 03-31-16 — CIVIL — STATE OF CALIFORNIA

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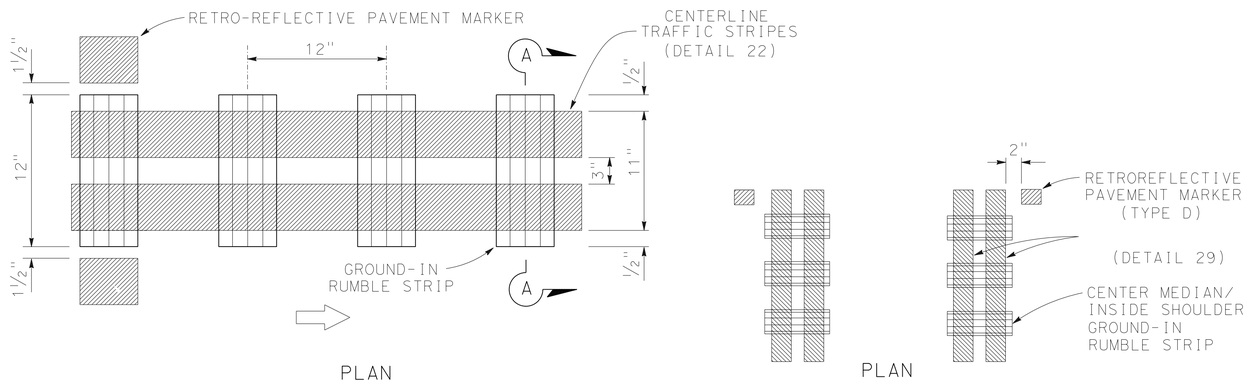
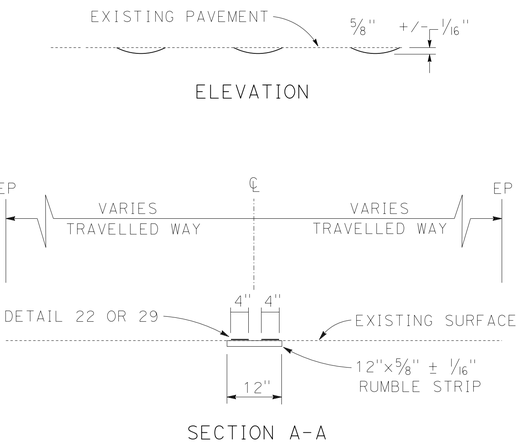
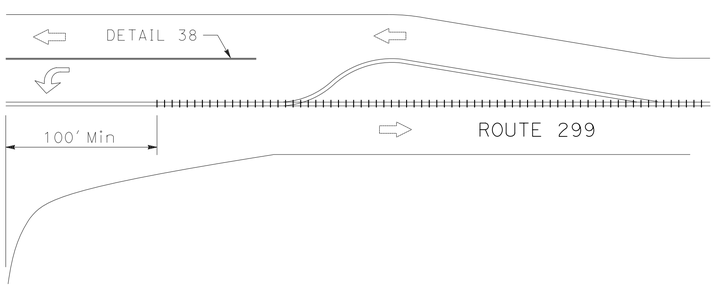
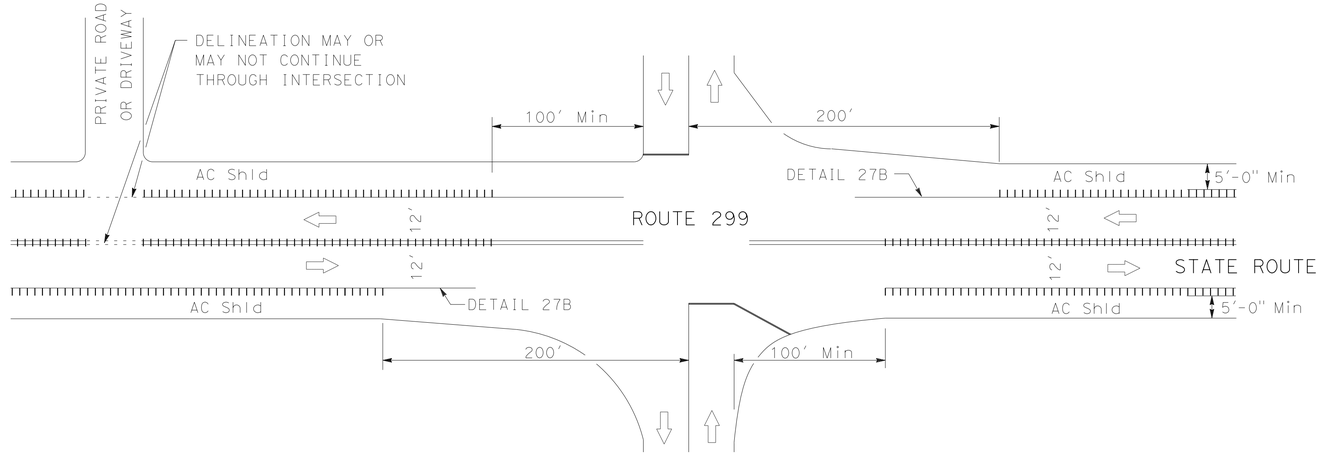


CENTERLINE RUMBLE STRIP / DETAIL 22 & 29





CENTERLINE RUMBLE STRIP AT LEFT TURN POCKET



INTERSECTING ROADS AND DRIVEWAYS

GROUND-IN RUMBLE STRIP TYPICALS

CONSTRUCTION DETAILS

NO SCALE

C-4

REVISED BY | DATE REVISED
GAVIN KEATING | STAN BRANDENBURG
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: T. J. FITZGERALD
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

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LAST REVISION 00-00-00 | DATE PLOTTED => 24-DEC-2015 | TIME PLOTTED => 11:19

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NOTES:

1. EXACT LOCATIONS OF "REPLACE AC SURFACING" WILL BE DETERMINED BY THE ENGINEER
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

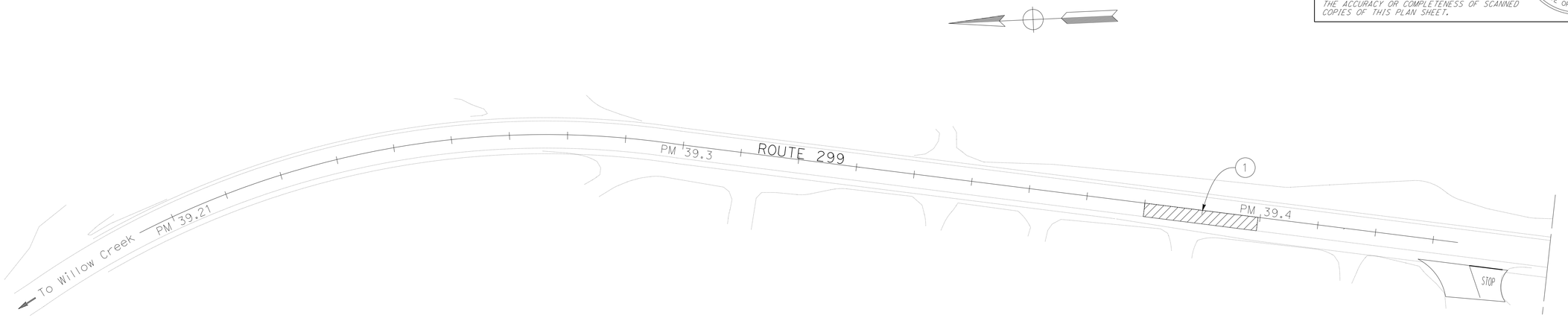
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	7	30

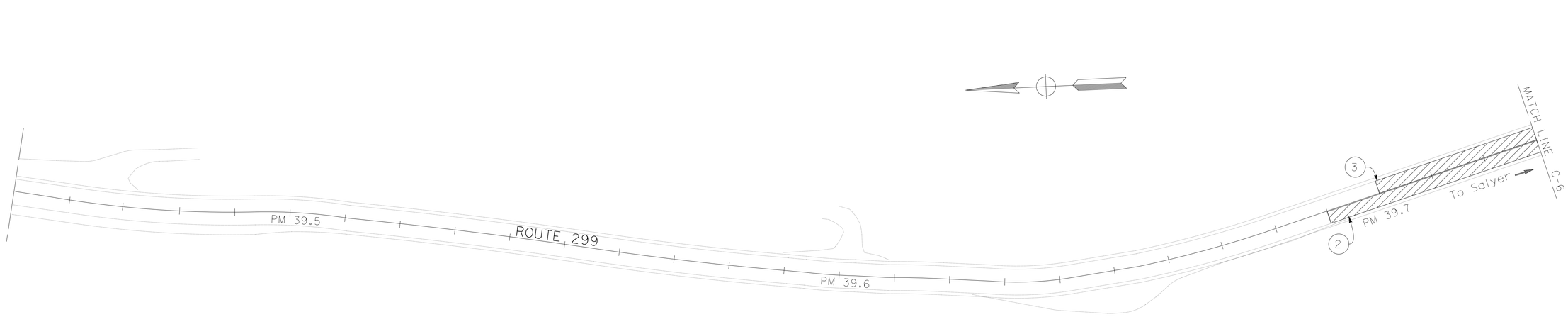
Stanley B. Brandenburg 10-07-15
REGISTERED CIVIL ENGINEER DATE

December 21, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STANLEY BRANDENBURG
No. C81750
Exp 03-31-16
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 DETAILS

NO SCALE

C-5

REVISED BY | DATE REVISED
GAVIN KEATING | STAN BRANDENBURG
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: T. J. FITZGERALD
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 24-DEC-2015 | TIME PLOTTED => 11:19

BORDER LAST REVISED 7/2/2010 | USERNAME => gavin keating | DGN FILE => 10e520ga005 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 0114000104

NOTES:

1. EXACT LOCATIONS OF "REPLACE AC SURFACING" WILL BE DETERMINED BY THE ENGINEER
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	8	30

Stanley B Brandenburg 10-07-15
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
STANLEY BRANDENBURG
No. C81750
Exp 03-31-16
CIVIL
STATE OF CALIFORNIA

December 21, 2015
PLANS APPROVAL DATE

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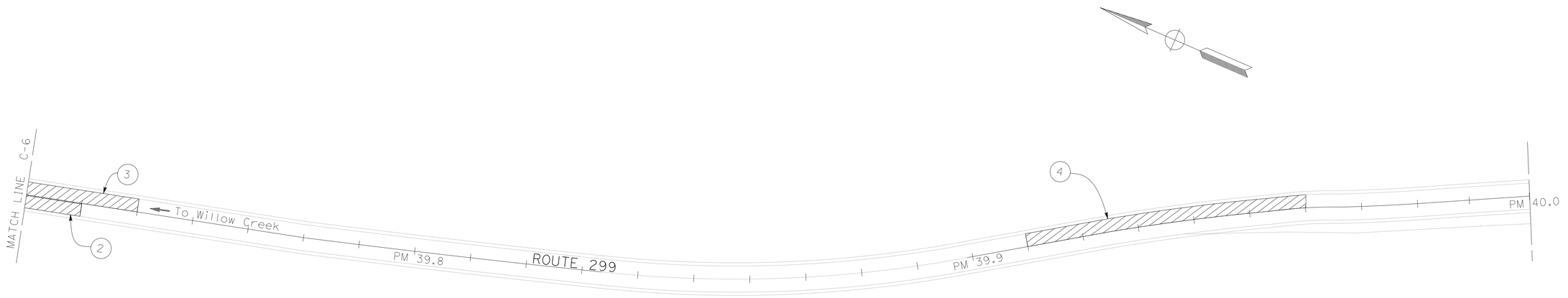

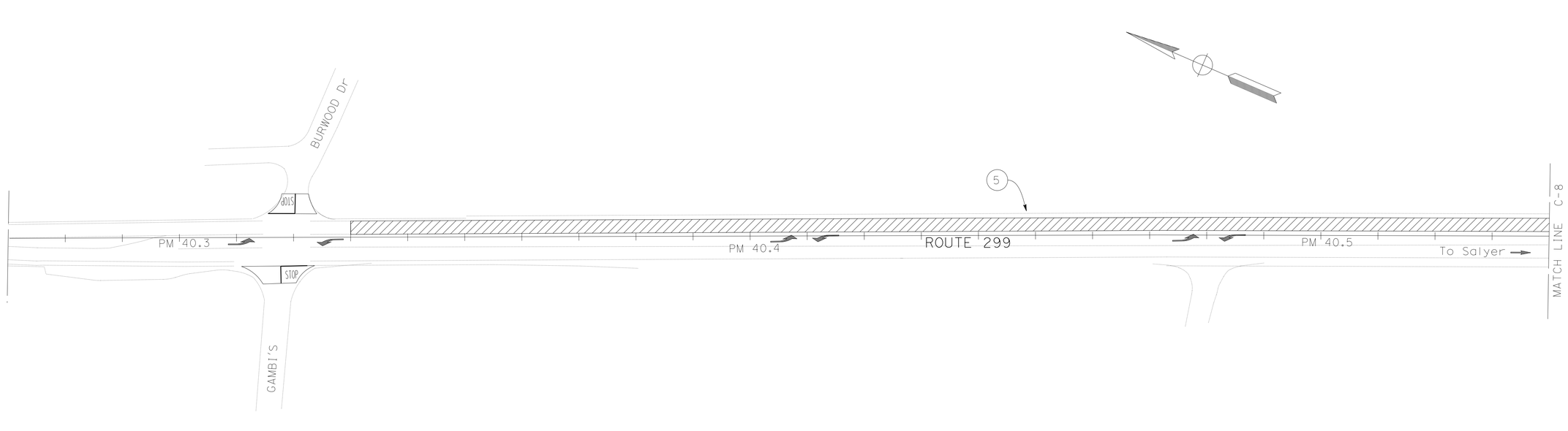

CONSTRUCTION DETAILS

NO SCALE

C-6

REVISED BY | DATE REVISED
GAVIN KEATING | STAN BRANDENBURG
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: T. J. FITZGERALD
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DATE PLOTTED => 24-DEC-2015
TIME PLOTTED => 11:19

BORDER LAST REVISED 7/2/2010
USERNAME => gavin keating
DGN FILE => 10e520ga006
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0000
PROJECT NUMBER & PHASE 0114000104

NOTES:

1. EXACT LOCATIONS OF "REPLACE AC SURFACING" WILL BE DETERMINED BY THE ENGINEER
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	9	30

Stanley B. Brandenburg 10-07-15
REGISTERED CIVIL ENGINEER DATE

December 21, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STANLEY BRANDENBURG
No. C81750
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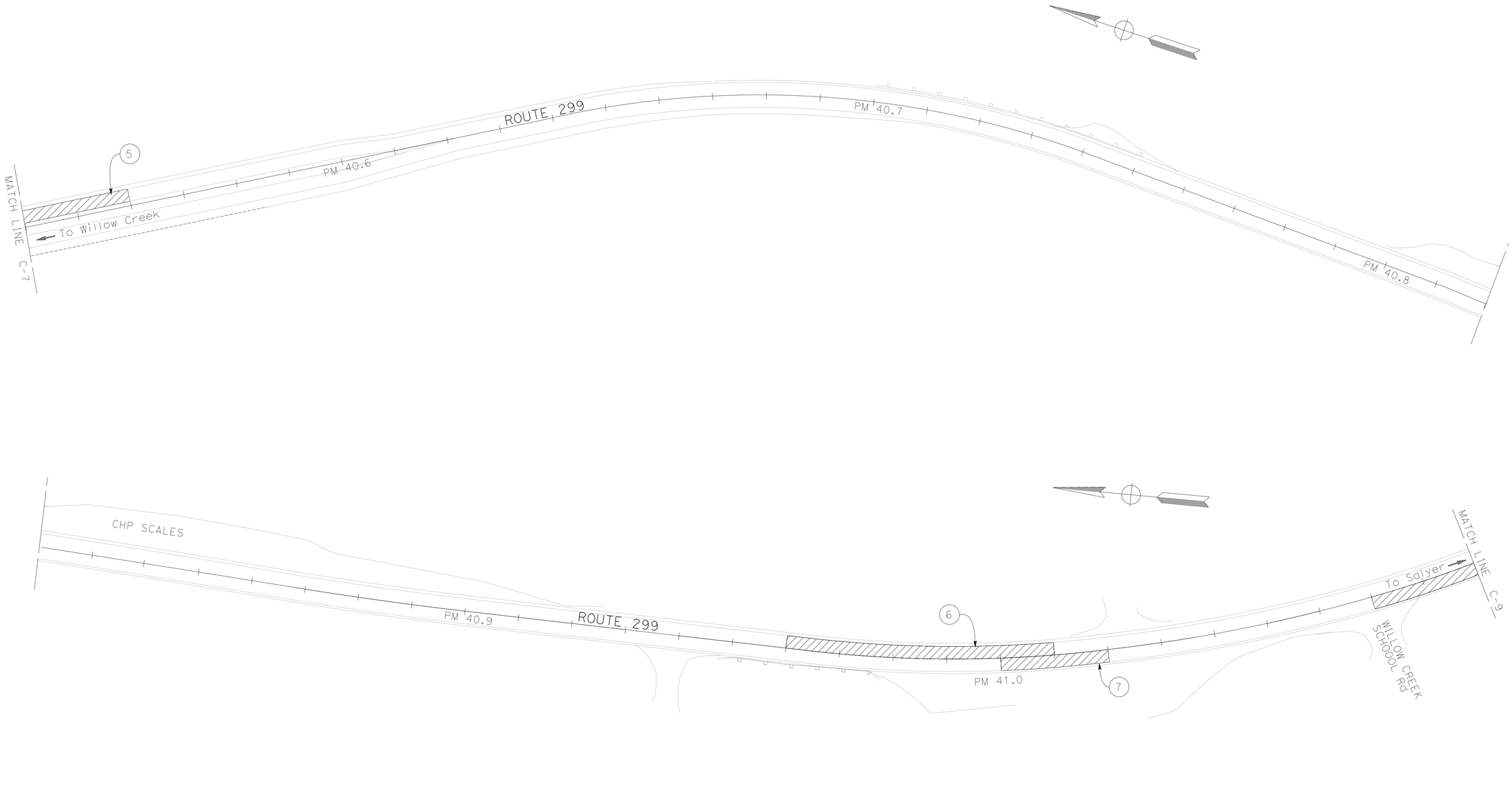

CONSTRUCTION DETAILS

NO SCALE

C-7

CALCULATED-DESIGNED BY
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DATE PLOTTED => 24-DEC-2015
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BORDER LAST REVISED 7/2/2010
USERNAME => gavin keating
DGN FILE => 10e520ga008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0000
PROJECT NUMBER & PHASE 0114000104

NOTES:

1. EXACT LOCATIONS OF "REPLACE AC SURFACING" WILL BE DETERMINED BY THE ENGINEER
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	10	30

Stanley B. Brandenburg 10-07-15
REGISTERED CIVIL ENGINEER DATE

December 21, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STANLEY BRANDENBURG
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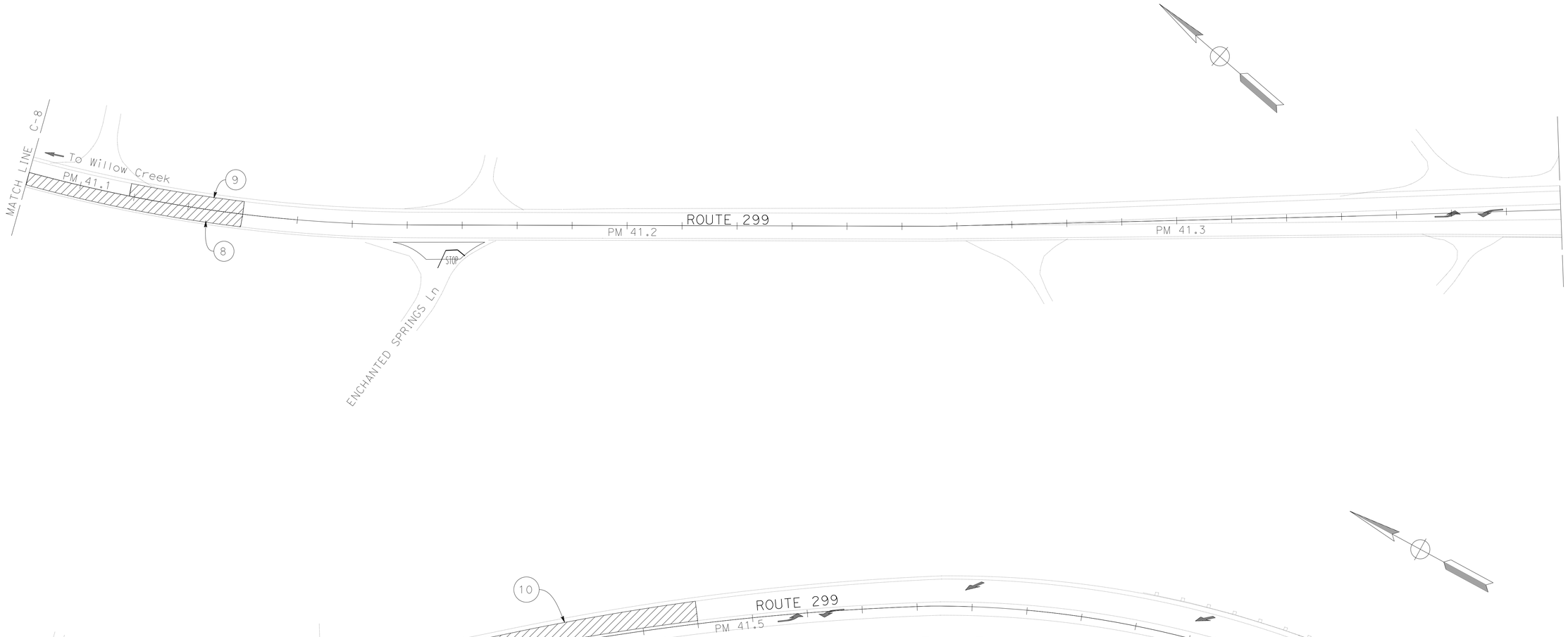

CONSTRUCTION DETAILS

NO SCALE

C-8

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BORDER LAST REVISED 7/2/2010 | USERNAME => gavin keating | DGN FILE => 10e520ga009 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 0114000104

NOTES:

1. EXACT LOCATIONS OF "REPLACE AC SURFACING" WILL BE DETERMINED BY THE ENGINEER
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	11	30

Stanley B. Brandenburg 10-07-15
REGISTERED CIVIL ENGINEER DATE

December 21, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — STANLEY BRANDENBURG — No. C81750 — Exp 03-31-16 — CIVIL — STATE OF CALIFORNIA

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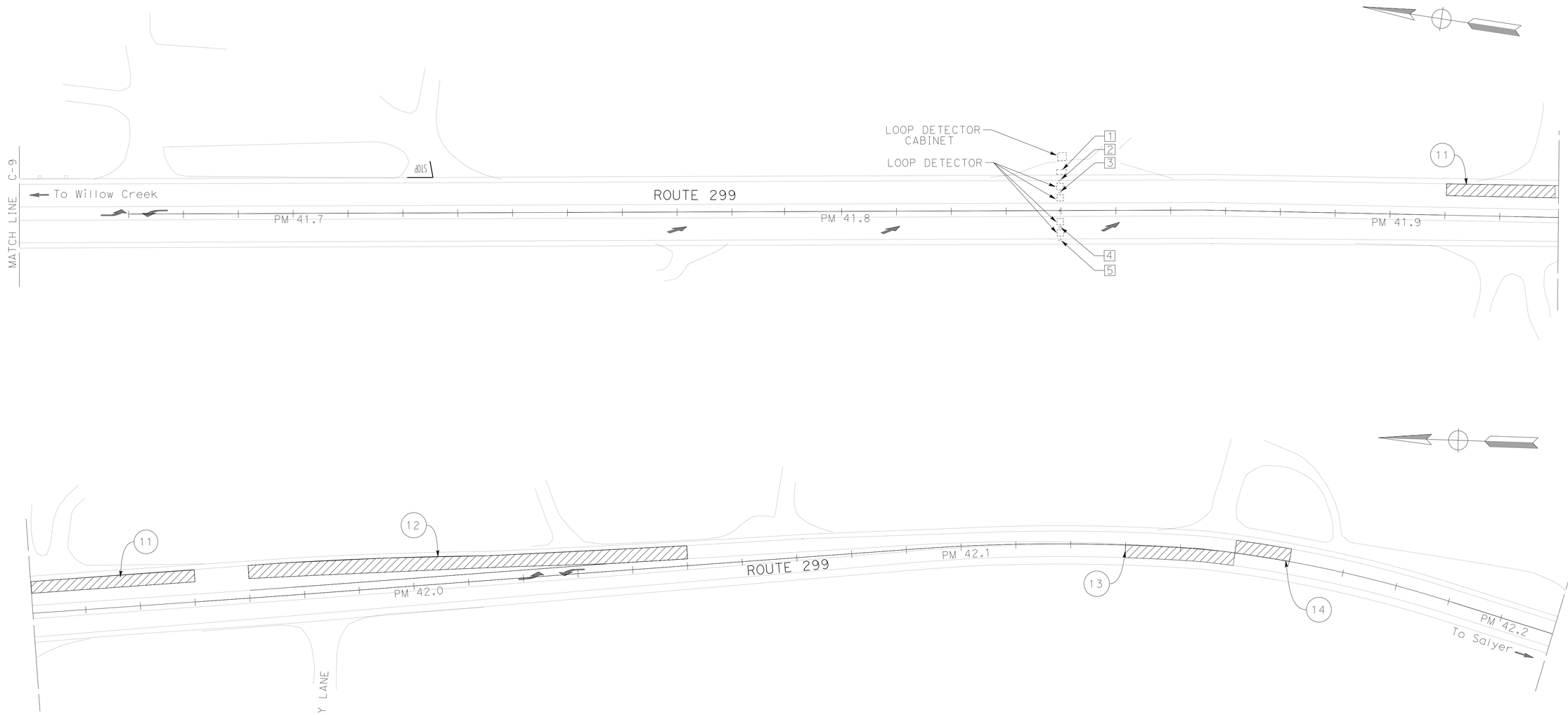

CONSTRUCTION DETAILS

NO SCALE

C-9

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BORDER LAST REVISED 7/2/2010 | USERNAME => gavin keating | DGN FILE => 10e520ga010 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 0114000104

NOTES:

1. EXACT LOCATIONS OF "REPLACE AC SURFACING" WILL BE DETERMINED BY THE ENGINEER
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	12	30

Stanley B. Brandenburg 10-07-15
REGISTERED CIVIL ENGINEER DATE

December 21, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STANLEY BRANDENBURG
No. C81750
Exp 03-31-16
CIVIL
STATE OF CALIFORNIA

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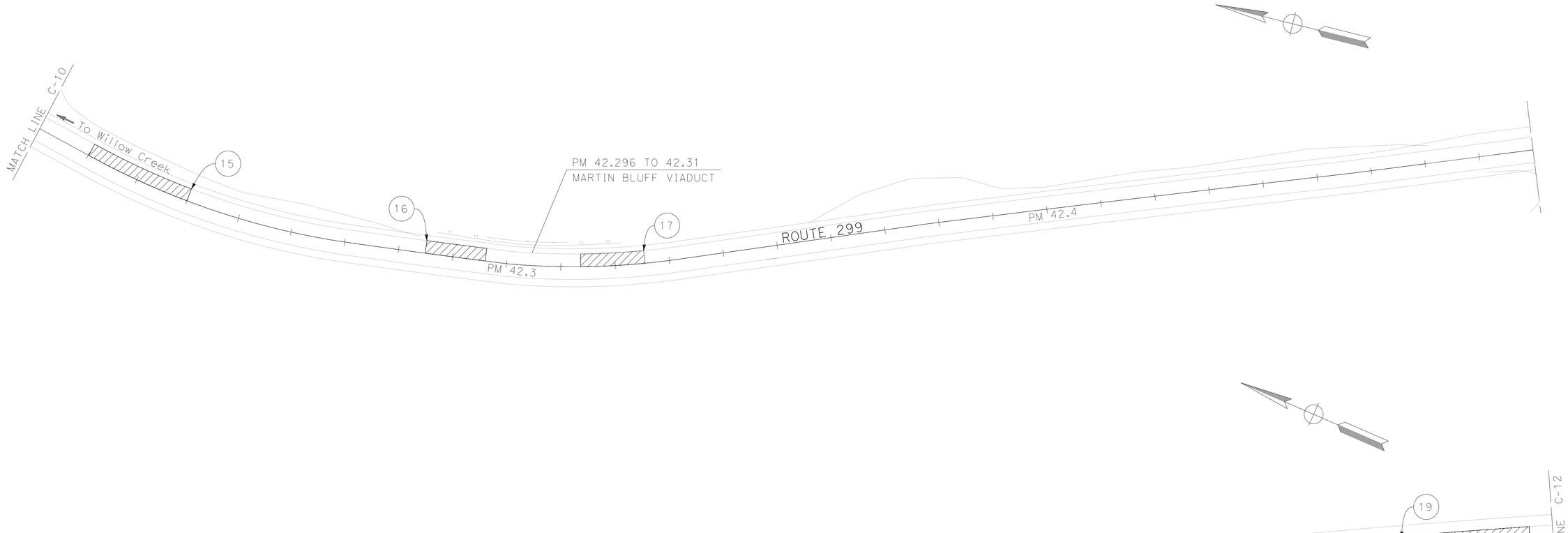

CONSTRUCTION DETAILS

NO SCALE

C-10

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BORDER LAST REVISED 7/2/2010 | USERNAME => gavin keating | DGN FILE => 10e520ga011 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 0114000104

NOTES:

1. EXACT LOCATIONS OF "REPLACE AC SURFACING" WILL BE DETERMINED BY THE ENGINEER
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	13	30

Stanley B. Brandenburg 10-07-15
REGISTERED CIVIL ENGINEER DATE

December 21, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STANLEY BRANDENBURG
No. C81750
Exp 03-31-16
CIVIL
STATE OF CALIFORNIA

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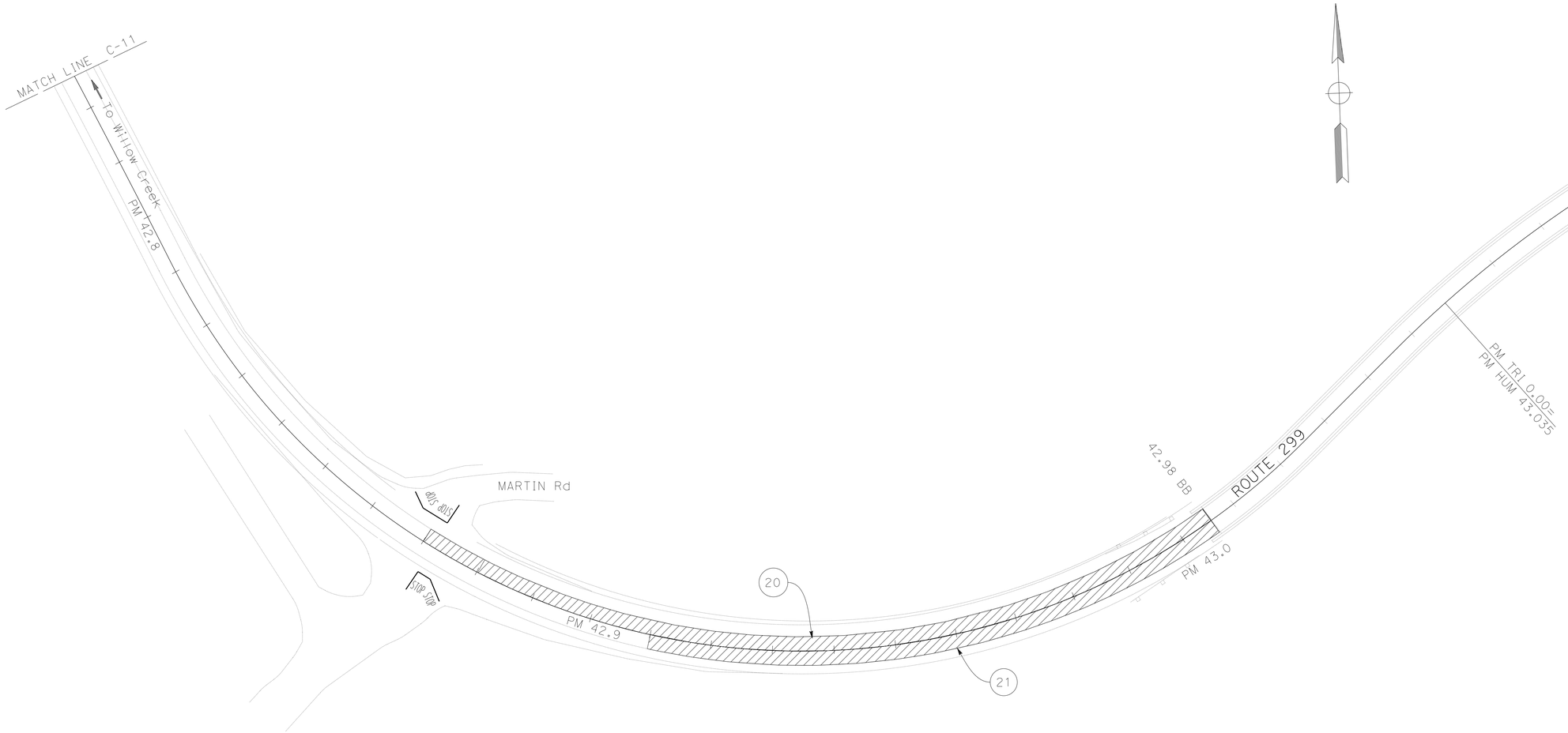

CONSTRUCTION DETAILS

NO SCALE

C-11

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GAVIN KEATING
STAN BRANDENBURG
REVISED BY
DATE REVISED
FUNCTIONAL SUPERVISOR
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Caltrans

LAST REVISION | DATE PLOTTED => 24-DEC-2015
00-00-00 | TIME PLOTTED => 11:20

BORDER LAST REVISED 7/2/2010 | USERNAME => gavin keating | DGN FILE => 10e520ga012 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 0114000104

NOTES:

1. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

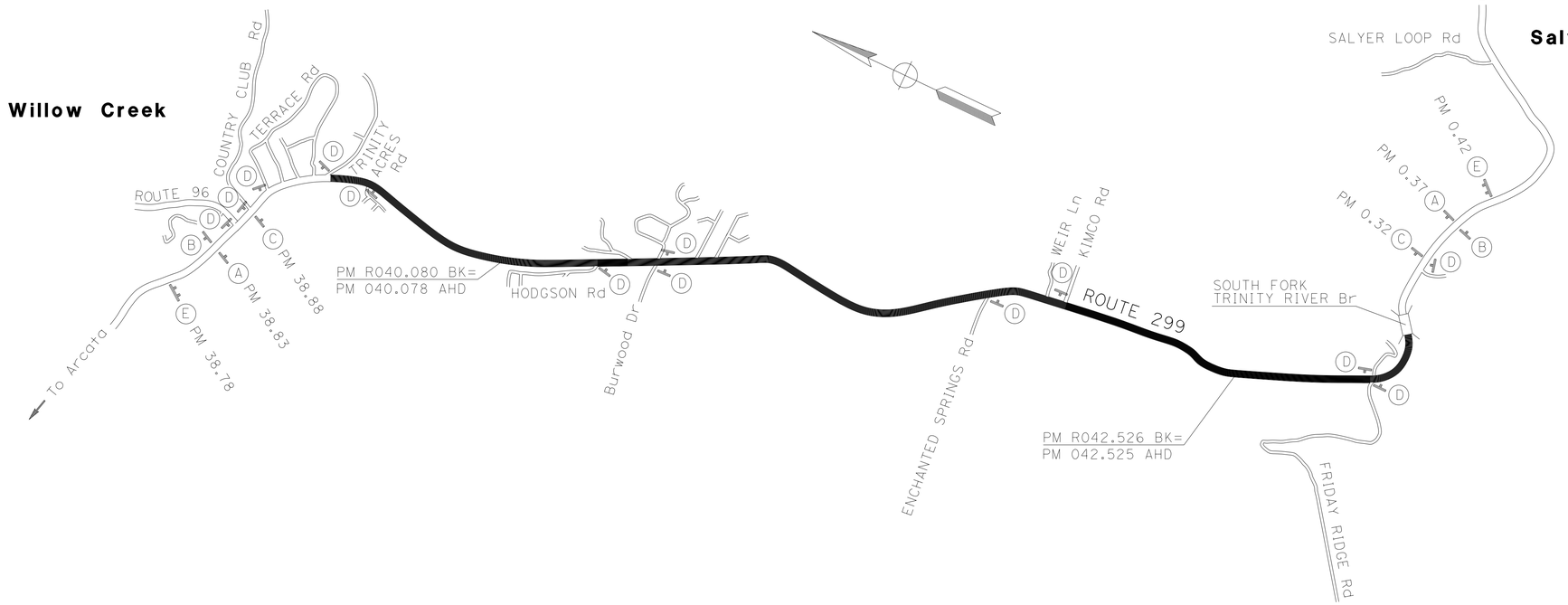
◯	TYPE	SIGN MESSAGE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS (N)
A	G20-1	ROAD WORK NEXT 5 MILES	60" x 36"	1 - 6" x 6"	2
	C23B(CA)	RESURFACING	60" x 18"		2
B	G20-2	END ROAD WORK	36" x 18"	1 - 4" x 4"	2
C	W11-1	BICYCLE SYMBOL	36" x 36"	1 - 4" x 6"	2
	W16-1	SHARE THE ROAD	24" x 30"		2
D	W20-1	ROAD WORK AHEAD	36" x 36"	1 - 4" x 4"	13
E	C40(CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONE	108" x 42"	2 - 6" x 6"	2

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

60" x 18"
4" Caps
BLACK/ORANGE

RESURFACING

C23B(CA)



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	14	30

Stanley B. Brandenburg 10-07-15
REGISTERED CIVIL ENGINEER DATE

December 21, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STANLEY BRANDENBURG
No. C81750
Exp 03-31-16
CIVIL
STATE OF CALIFORNIA

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Caltrans

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BORDER LAST REVISED 7/2/2010 | USERNAME => gavin keating | DGN FILE => 010e5201a001 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0052 | PROJECT NUMBER & PHASE 0114000104

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	15	30

Sheri M. Rodriguez 3-5-15
REGISTERED CIVIL ENGINEER DATE

December 21, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — SHERI M. RODRIGUEZ — No. C66861 — Exp. 9-30-16 — CIVIL — STATE OF CALIFORNIA

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NOTES:

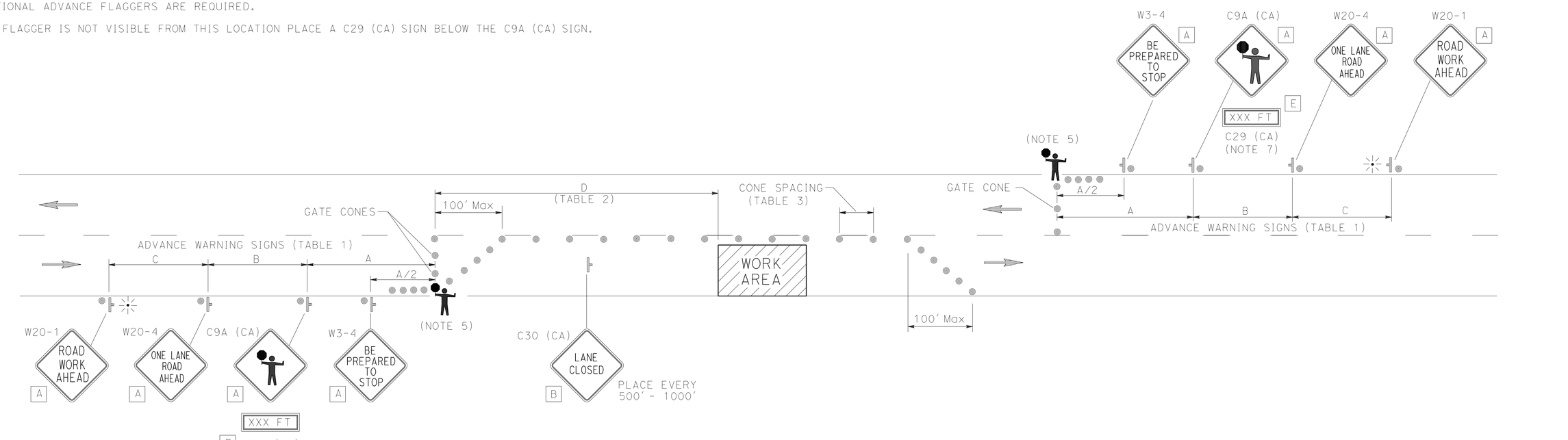
1. CALIFORNIA CODES ARE DESIGNATED BY (CA). OTHERWISE, FEDERAL (MUTCD) CODES ARE SHOWN.
2. ALL SIGNS SHALL HAVE A BLACK LEGEND ON FLUORESCENT ORANGE BACKGROUND AND SHALL BE EQUIPPED WITH AT LEAST TWO 16" x 16" ORANGE FLAGS FOR DAYTIME CLOSURE OR FLASHING BEACONS FOR LANE CLOSURE DURING HOURS OF DARKNESS.
3. ALL CONES USED FOR LANE CLOSURES DURING THE HOURS OF DARKNESS SHALL BE FITTED WITH RETROREFLECTIVE BANDS OR SLEEVES.
4. WHEN A PILOT CAR IS USED, PLACE A C37 (CA) SIGN AT ALL INTERSECTIONS WITHIN TRAFFIC CONTROL AREA. WHERE VEHICULAR TRAFFIC CAN NOT EFFECTIVELY SELF-REGULATE, AT LEAST ONE FLAGGER SHALL BE USED AT EACH INTERSECTION WITHIN THE TRAFFIC CONTROL AREA.
5. FLAGGER SHOULD STAND IN A CONSPICUOUS PLACE, FACING TRAFFIC AT ALL TIMES, BE VISIBLE TO APPROACHING TRAFFIC AS WELL AS APPROACHING VEHICLES AFTER THE FIRST VEHICLE HAS STOPPED.
6. ADDITIONAL ADVANCE FLAGGERS ARE REQUIRED.
7. WHEN FLAGGER IS NOT VISIBLE FROM THIS LOCATION PLACE A C29 (CA) SIGN BELOW THE C9A (CA) SIGN.

LEGEND

- TRAFFIC CONE
- TEMPORARY SIGN
- DIRECTION OF TRAVEL
- PORTABLE FLASHING BEACON
- FLAGGER

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 — UNUSED
- D — UNUSED
- E — 20" x 7"



TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TABLE 1

ADVANCE WARNING SIGN SPACING

ROAD TYPE	Min A	Min B	Min C
	ft		
URBAN (25 mph OR LESS)	100	100	100
URBAN (30 mph TO 40 mph)	250	250	250
URBAN (MORE THAN 40 mph)	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

TABLE 2

BUFFER SPACE

APPROACH SPEED	Min D	DOWNGRADE Min D		
		-3%*	-6%*	-9%*
mph	ft			
25 & 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.

TABLE 3

Max CONE SPACING

POSTED SPEED	TAPER	TANGENT	CONFLICT*
mph	ft		
20	20	40	10
25	25	50	12
30	30	60	15
35	35	70	17
40	40	80	20
45	45	90	22
50	50	100	25
55	55	110	27
60	60	120	30
65	65	130	32

* USE WHERE THERE IS A CONFLICT BETWEEN EXISTING PAVEMENT MARKINGS AND CHANNELIZERS.

TRAFFIC HANDLING PLAN

NO SCALE

TH-1

APPROVED FOR TRAFFIC HANDLING WORK ONLY

REVISED BY | DATE REVISED
SHERI M. RODRIGUEZ | TROY A. ARSENEAU
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: RICHARD MULLEN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC OPERATIONS
P:\PROJ\01\0e520\drafting\Sheets\0114000104md001.dgn

LAST REVISION | DATE PLOTTED => 24-DEC-2015
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BORDER LAST REVISED 7/2/2010 | USERNAME => s120115 | DGN FILE => 0114000104md001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0042 | PROJECT NUMBER & PHASE 0114000104

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	16	30

Stanley B. Brandenburg 10-07-15
REGISTERED CIVIL ENGINEER DATE

December 21, 2015
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
STANLEY BRANDENBURG
No. C81750
Exp 03-31-16
CIVIL
STATE OF CALIFORNIA

TRAFFIC STRIPE AND PAVEMENT MARKER QUANTITIES

LOCATION (PM)		L+/R+	DETAIL NUMBER	DETAIL LENGTH	THERMOPLASTIC TRAFFIC STRIPE							PAVEMENT MARKER (RETROREFLECTIVE RECESSED)			REMOVE MARKERS (N)	
					REMOVE THERMOPLASTIC TRAFFIC STRIPE	8 INCH SOLID WHITE	4 INCH SOLID YELLOW	4 INCH SOLID WHITE	4 INCH BROKEN (12-3) WHITE	4 INCH BROKEN (36-12) WHITE	4 INCH BROKEN (36-12) YELLOW	TYPE D YELLOW (TWO WAY)	TYPE H CLEAR (ONE WAY)	TYPE G CLEAR (ONE WAY)		
FROM	TO			LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	REMARKS
39.10	39.48	R+	27B	2006				2006								
39.10	39.33	L+	27B	1214				1214								
39.10	39.49		22	2038			4076					172			172	
39.33	39.36	L+	27C	158					158							
39.36	40.35	L+	27B	5227				5227								
39.48	39.50	R+	27C	106					106							
39.50	40.13		22	3326			6653					279			279	
39.50		R+	21	15			30									PANTHER Rd
39.50	40.13	R+	27B	3326				3326								
40.13	40.15	R+	27C	106					106							
40.14		R+	21	12			24									CHINA CREEK Rd
40.15	40.34	R+	27B	1003				1003								
40.15	40.29		22	739			1478					64			64	
40.29	40.33		29	211			845					20			20	
40.33	40.35		22	106			211					11			11	
40.34	40.35		38	53	106	53								5	5	
40.34	40.37	R+	27C	158					158							
40.35		R+	21	15			30									GAMBIS Dr
40.35		L+	21	15			30									BURWOOD Dr
40.35	40.37	L+	27C	106					106							
40.36	40.37		38	53	106	53								5	5	
40.36	40.37		22	53			106					6			6	
40.37	41.09	R+	27B	3802				3802								
40.37	40.81	L+	27B	2323				2323								
40.37	40.40		29	158			634					15			15	
40.40	40.56		32	845			1690				1690	88			88	
40.56	40.66		29	528			2112					46			46	
40.66	41.18		22	2746			5491					231			231	
40.94	41.73	L+	27B	4171				4171								
41.00	41.00	R+	38A	20	40	20										AERIAL ENFORCEMENT
41.09	41.11	R+	27C	106					106							
41.11	41.17	R+	27B	317				317								
41.17	41.20	R+	27C	158					158							
41.19	41.30		22	581			1162					50			50	
41.20	42.84	R+	27B	8659				8659								
41.30	41.36		29	317			1267					28			28	
41.36	42.04		32	3590			7181				7181	374			374	
41.46	41.86	R+	12	2112						2112				46	46	
41.56	42.00	L+	12	2323						2323				51	51	
41.73	41.75	L+	27C	106					106							
41.74		L+	21	15			30									
41.75	42.85	L+	27B	5808				5808								
42.00	42.00		38A	20	40	20										BURWOOD Dr
42.04	42.06		29	106			422					11			11	
42.06	42.07		22	53			106					6			6	
42.07	42.09		29	106			422					11			11	
42.09	42.10		22	53			106					6			6	
42.10	42.13		29	158			634					15			15	
42.13	42.28		22	792			1584					68			68	
42.28	42.55		19R	1426			1426				1426	32	61		93	
42.55	42.86		22	1637			3274					138			138	
42.84	42.89	R+	27C	264					264							
42.85	42.87	L+	27C	106					106							
42.86		L+	21	22			44									
42.86		R+	22	22			44					4			4	MARTIN Rd
42.87	43.00		22	686			1373					59			59	FRIDAY RIDGE Rd
42.87	43.00	L+	27B	686				686								
42.89	43.00	R+	27B	581				581								
			SUBTOTAL		291	146	42485	39123	1374	4435	10297	1734	61	107	1902	
			TOTAL		291	146	81608		1374	14732		1902			1902	

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REVISED BY | GAVIN KEATING
DATE REVISED | STAN BRANDENBURG
CALCULATED-DESIGNED BY | FUNCTIONAL SUPERVISOR | T. J. FITZGERALD
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Caltrans

PAVEMENT DELINEATION QUANTITIES

PDQ-1

LAST REVISION 02-18-15 | DATE PLOTTED => 24-DEC-2015 | TIME PLOTTED => 11:20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	17	30

Stanley B. Brandenburg 10-07-15
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December 21, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STANLEY BRANDENBURG
No. C81750
Exp 03-31-16
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.

REMOVE THERMOPLASTIC PAVEMENT MARKING

LOCATION (PM)	ORIENTATION	TYPE/LEGEND	AREA SQFT	REMARKS
39.49	FNBT	STOP	22	PANTHER Rd
39.49	FNBT	LIMIT LINE	30	PANTHER Rd
40.35	FEBT	TYPE III ARROW	42	
40.38	FWBT	TYPE III ARROW	42	
40.44	FEBT	TYPE III ARROW	42	
40.46	FWBT	TYPE III ARROW	42	
40.51	FEBT	TYPE III ARROW	42	
40.53	FWBT	TYPE III ARROW	42	
41.36	FEBT	TYPE III ARROW	42	
41.38	FWBT	TYPE III ARROW	42	
41.51	FEBT	TYPE III ARROW	42	
41.53	FWBT	TYPE III ARROW	42	
41.56	FWBT	TYPE VI ARROW	42	
41.60	FWBT	TYPE VI ARROW	42	
41.64	FWBT	TYPE VI ARROW	42	
41.67	FEBT	TYPE III ARROW	42	
41.68	FEBT	TYPE III ARROW	42	
41.78	FEBT	TYPE VI ARROW	42	
41.81	FEBT	TYPE VI ARROW	42	
41.85	FEBT	TYPE VI ARROW	42	
42.02	FEBT	TYPE III ARROW	42	
42.03	FWBT	TYPE III ARROW	42	
		TOTAL	892	

THERMOPLASTIC PAVEMENT MARKING

LOCATION (PM)	ORIENTATION	TYPE/LEGEND	AREA SQFT	REMARKS
39.49	FNBT	STOP	22	PANTHER Rd
39.49	FNBT	LIMIT LINE	30	PANTHER ROAD
40.14	FNBT	STOP	22	CHINA CREEK Rd
40.14	FNBT	LIMIT LINE	25	CHINA CREEK Rd
40.35	FEBT	TYPE III ARROW	42	
40.36	FNBT	STOP	22	GAMBIS Dr
40.36	FNBT	LIMIT LINE	24	GAMBIS Dr
40.36	FSBT	STOP	22	BURWOOD Dr
40.36	FSBT	LIMIT LINE	24	BURWOOD Dr
40.38	FWBT	TYPE III ARROW	42	
40.44	FEBT	TYPE III ARROW	42	
40.46	FWBT	TYPE III ARROW	42	
40.51	FEBT	TYPE III ARROW	42	
40.53	FWBT	TYPE III ARROW	42	
41.18	FNBT	STOP	22	ENCHANTED SPRINGS Rd
41.18	FNBT	LIMIT LINE	20	ENCHANTED SPRINGS Rd
41.36	FEBT	TYPE III ARROW	42	
41.38	FWBT	TYPE III ARROW	42	
41.51	FEBT	TYPE III ARROW	42	
41.53	FWBT	TYPE III ARROW	42	
41.56	FWBT	TYPE VI ARROW	42	
41.60	FWBT	TYPE VI ARROW	42	
41.64	FWBT	TYPE VI ARROW	42	
41.67	FEBT	TYPE III ARROW	42	
41.67	FSBT	STOP	22	GOLDEN BEAR Dr
41.67	FSBT	LIMIT LINE	18	GOLDEN BEAR Dr
41.68	FEBT	TYPE III ARROW	42	
41.78	FEBT	TYPE VI ARROW	42	
41.81	FEBT	TYPE VI ARROW	42	
41.85	FEBT	TYPE VI ARROW	42	
41.91	FWBT	LANE LINE	396	CHP SCALES
42.02	FEBT	TYPE III ARROW	42	
42.03	FWBT	TYPE III ARROW	42	
42.85	FSBT	STOP (2)	44	MARTIN Rd
42.85	FSBT	LIMIT LINE	38	MARTIN Rd
42.86	FNBT	STOP (2)	44	FRIDAY RIDGE Rd
42.86	FNBT	LIMIT LINE	22	FRIDAY RIDGE Rd
		TOTAL	1657	

PAVEMENT DELINEATION QUANTITIES
PDQ-2

REVISED BY | DATE REVISED
GAVIN KEATING | STAN BRANDENBURG
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: T. J. FITZGERALD
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 02-18-15 | DATE PLOTTED => 24-DEC-2015 | TIME PLOTTED => 11:20

BORDER LAST REVISED 7/2/2010 | USERNAME => gavin keating | DGN FILE => 10e520nc002 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0052 | PROJECT NUMBER & PHASE 0114000104

ROADWAY QUANTITIES

LOCATION (PM)		LOCATION NUMBER	L+/R+	LENGTH (N)	WIDTH (N)	BONDED WEARING COURSE-GAP GRADED	ASPHALTIC EMULSION (BONDED WEARING COURSE)	COLD PLANE ASPHALT CONCRETE PAVEMENT	REPLACE ASPHALT CONCRETE SURFACING	REMARKS
FROM	TO			LF		TON	TON	SQYD	CY	
39.20	39.21			40	34.0			151		BEGIN PROJECT CONFORM
39.20	39.40			1056	34.0	157	4.2			
39.34	39.38			240	22	20	0.5			WIDE SHOULDER
39.38	39.40	1	R+	106	12.0				12	
39.40	39.50			528	33.0	76	2.0			
39.50	39.73			1214	30.0	159	4.2			
39.50			L+	67	30.0	9	0.2			PANTHER Rd
39.69	39.74	2	R+	264	12.0				29	
39.70	39.75	3	L+	243	12.0				27	
39.73	40.19			2429	30.5	324	8.6			
39.91	39.96	4	L+	264	12.0				29	
40.15			R+	78	18.0	6	0.2	156		CHINA CREEK Rd
40.19	40.32			686	37.0	111	2.9			
40.32	40.37			264	44.5	51	1.4			
40.33	40.56	5	L+	1214	12.0				135	
40.34			R+	48	15.0	3	0.1	80		GAMBIS Rd
40.34			L+	34	18.0	3	0.1	68		BURWOOD Rd
40.37	40.67			1584	40.0	277	7.3			
40.67	40.73			317	32.0	44	1.2			
40.70	40.75		L+	228	4.0			101		COLD PLANE AT MBGR
40.73	41.20			2482	44.5	483	12.8			
40.78	40.88		L+	636	6.0			424		CHP SCALES
40.96	41.01	6	L+	275	12.0				31	
41.00	41.02	7	R+	106	12.0				12	
41.07	41.13	8	R+	333	12.0				37	
41.09	41.13	9	L+	183	12.0				20	
41.17			R+	59	16.0	4	0.1	105		ENCHANTED SPRINGS Ln
41.20	41.39			1003	51.0	224	5.9			
41.39	41.48			475	59.0	123	3.2			
41.45	41.49	10	L+	211	12.0				23	
41.48	41.50			106	61.5	28	0.8			
41.50	41.59			475	65.5	136	3.6			
41.57	41.67		L+	500	4.0			222		COLD PLANE AT MBGR
41.59	42.07			2534	56.0	621	16.4			
41.67			L+	54	15.0	4	0.1	90		CAMPORA Dr
41.75			L+	61	15.0	4	0.1	102		WEIR Ln
41.91	41.96	11	L+	264	12.0				29	
41.97	42.05	12	L+	444	12.0				49	
42.07	42.15			422	54.0	100	2.6			
42.13	42.15	13	R+	125	12.0				14	
42.15	42.48			1742	37.0	282	7.5			
42.15	42.16	14	L+	60	12.0				7	
42.22	42.24	15	L+	106	12.0				12	
42.29	42.30	16	L+	60	12.0				7	
42.29	42.30		L+	50	4.0			22		COLD PLANE AT MBGR
42.30	42.32		L+&R+	100	28			480		MARTIN BLUFF VIADUCT
42.31	42.33	17	L+	63	12.0				7	
42.34	42.35		L+	50	4.0			22		COLD PLANE AT MBGR
42.48	42.87			2059	38.5	347	9.2			
42.62	42.65	18	L+	140	12.0				16	
42.72	42.77	19	L+	223	12.0				25	
42.87	42.98	20	L+	581	12.0				65	
42.91	42.98	21	R+	370	12.0				41	
42.87	42.98			581	41.0	104	2.8			
42.87			L+	61	18.0	5	0.1	122		MARTIN Rd
42.87			R+	73	18.0	6	0.2	146		FRIDAY RIDGE Rd
42.98	42.99		L+	63	4.0			28		COLD PLANE AT MBGR
42.98	42.99		R+	63	4.0			28		COLD PLANE AT MBGR
42.98	42.99			103	41			467		END PROJECT CONFORM
					TOTAL	3711	98.3	2945	627	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	18	30

Stanley B. Brandenburg 10-07-15
REGISTERED CIVIL ENGINEER DATE

December 21, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STANLEY BRANDENBURG
No. C81750
Exp 03-31-16
CIVIL
STATE OF CALIFORNIA

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REVISED BY | DATE REVISED

GAVIN KEATING | STAN BRANDENBURG

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: T. J. FITZGERALD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®

LAST REVISION | DATE PLOTTED => 24-DEC-2015 | TIME PLOTTED => 11:20
02-12-15

SUMMARY OF QUANTITIES
Q-1

BORDER LAST REVISED 7/2/2010 | USERNAME => gavin keating | DGN FILE => 10e520pa001 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0052 | PROJECT NUMBER & PHASE 0114000104

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	19	30

Stanley B. Brandenburg 10-07-15
REGISTERED CIVIL ENGINEER DATE

December 21, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — STANLEY BRANDENBURG — No. C81750 — Exp 03-31-16 — CIVIL — STATE OF CALIFORNIA

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SHOULDER BACKING

LOCATION (PM)		OFFSET	SHOULDER BACKING
FROM	TO		TON
39.40	40.07	L+	153
39.69	40.13	R+	100
40.07	40.35	L+	94
40.15	40.34	R+	43
40.47	40.50	L+	10
40.77	40.80	L+	7
40.90	40.96	R+	14
41.00	41.14	L+	32
41.05	41.10	R+	11
41.17	41.78	R+	139
41.70	42.12	L+	96
41.91	41.94	R+	7
42.14	42.29	L+	34
42.36	42.48	L+	27
42.48	42.70	R+	50
42.60	42.71	L+	25
42.82	42.98	R+	36
		TOTAL	878

RUMBLE STRIP

LOCATION (PM)		CENTERLINE RUMBLESTRIP (HMA, GROUND-IN INDENTATIONS)
FROM	TO	STA
39.20	40.30	57
40.30	40.34	3
40.34	40.40	4
40.40	40.57	18
40.57	40.68	12
40.68	41.30	32
41.30	41.39	10
41.39	42.04	69
42.04	42.14	11
42.14	42.98	86
	TOTAL	302

MAINTAIN EXISTING TMS ELEMENTS DURING CONSTRUCTION

LOCATION (PM)	ELEMENT	REMARKS
41.71	TCS	EAST OF WILLOW CREEK

TCS - TRAFFIC COUNT STATION

ADJUST UTILITY COVER TO GRADE

UTILITY COVER NUMBER	LOCATION	ADJUST UTILITY COVER TO GRADE	DESCRIPTION
	PM	EA	
1	41.71	1	19.5" x 29.5" COUNT STATION
2	41.71	1	9" DETECTION
3	41.71	1	9" DETECTION
4	41.71	1	9" DETECTION
5	41.71	1	9" DETECTION
	TOTAL	5	

HOT MIX ASPHALT DIKE

LOCATION (PM)		L+/R+	LENGTH	REMOVE ASPHALT CONCRETE DIKE	PLACE HOT MIX ASPHALT DIKE (TYPE A)	PLACE HOT MIX ASPHALT DIKE (TYPE E)	HMA (TYPE A)
FROM	TO		LF	LF	LF	LF	TON
39.71	39.75	L+	210	210		210	5.16
40.07	40.35	L+	1478	1478		1478	36.31
40.27	40.31	R+	209	209	209		5.33
40.56	40.65	L+	476	476	476		12.15
40.62	40.70	R+	446	446	446		11.38
40.98	41.02	L+	105	105	105		2.68
41.24	41.28	L+	212	212	212		5.41
42.43	42.44	L+	60	60	60		1.53
42.48	42.55	L+	370	370	370		9.44
			TOTAL	3566	1878	1688	89.39

REVISED BY | DATE REVISED
GAVIN KEATING | STAN BRANDENBURG
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: T. J. FITZGERALD
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 02-12-15
DATE PLOTTED => 24-DEC-2015
TIME PLOTTED => 11:21

SUMMARY OF QUANTITIES
Q-2

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

Q

Qty	QUANTITY

R

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

S

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

T

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

T continued

TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL
Typ	TYPICAL

U

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

V

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

W

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

X

X Sec	CROSS SECTION
Xing	CROSSING

Y

Yr	YEAR
Yrs	YEARS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	20	30

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

Grace M. Tsushima No. C49814 Exp. 9-30-14 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

July 19, 2013
PLANS APPROVAL DATE

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TO ACCOMPANY PLANS DATED 12-21-15

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

P:\PROJ\01\0e520\drafting\Sheets\va001.dgn

6-7-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	21	30

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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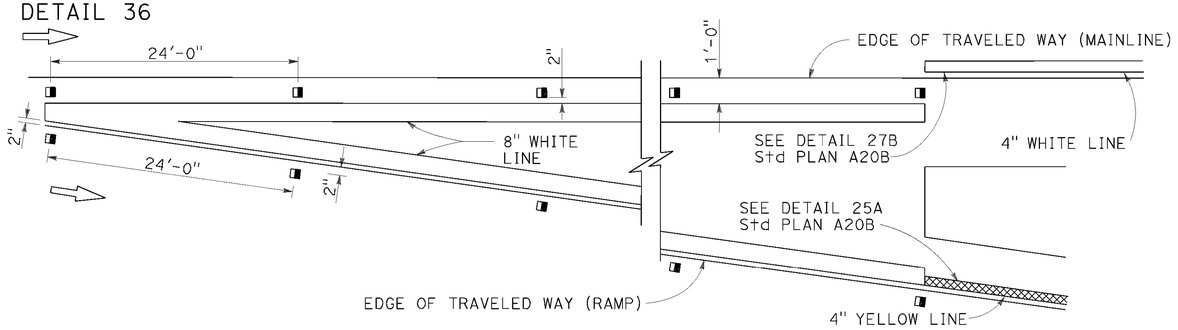
TO ACCOMPANY PLANS DATED 12-21-15

2010 REVISED STANDARD PLAN RSP A20C

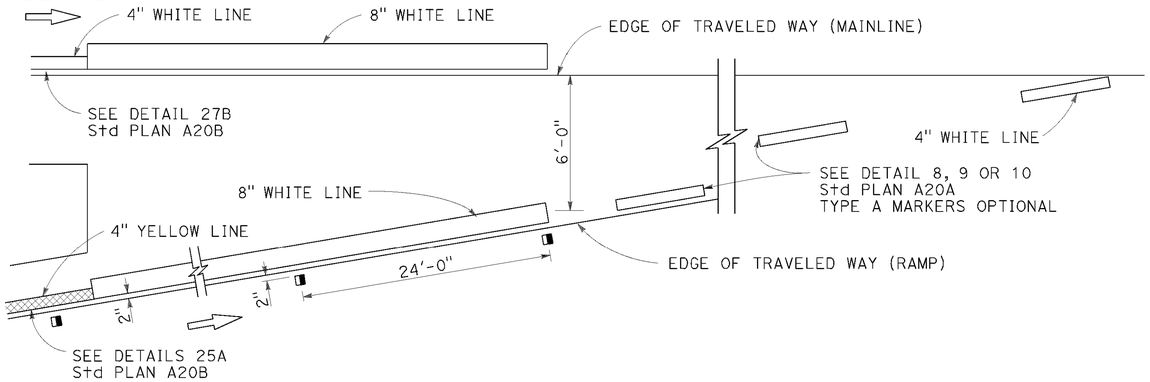
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT

DETAIL 36



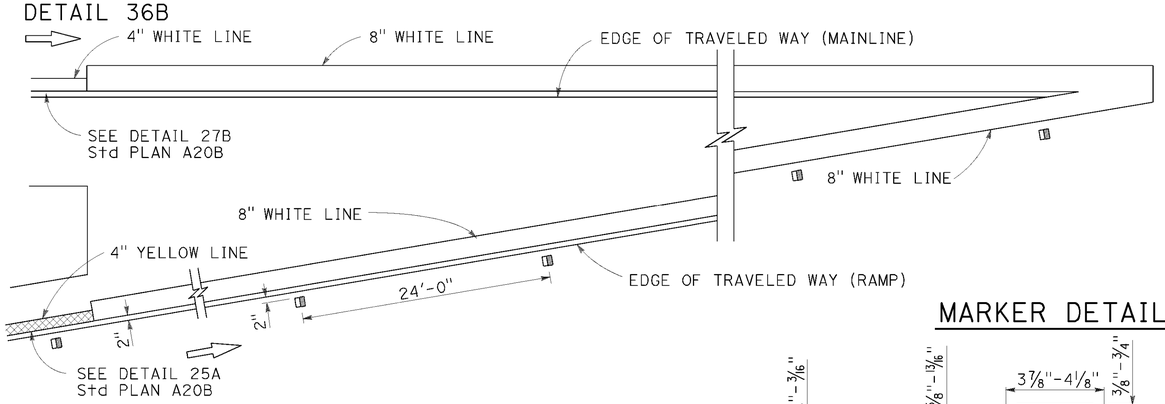
ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT

DETAIL 36A



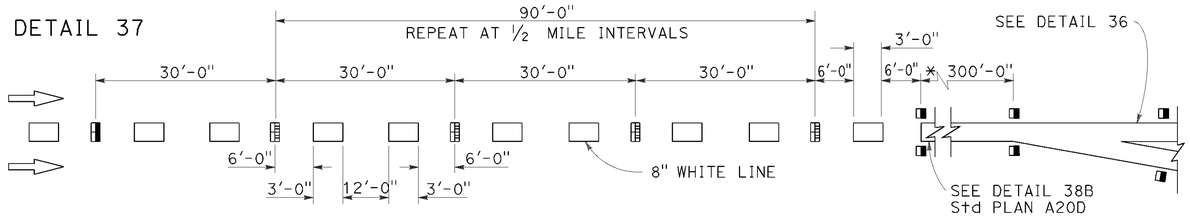
ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

DETAIL 36B

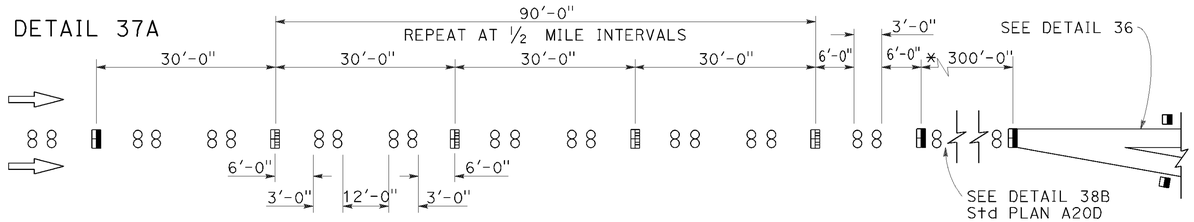


LANE DROP AT EXIT RAMPS

DETAIL 37



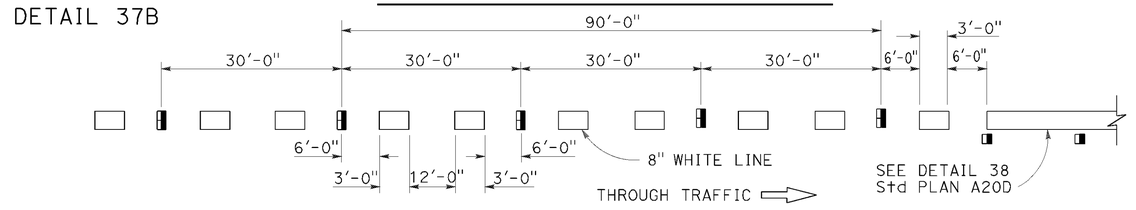
DETAIL 37A



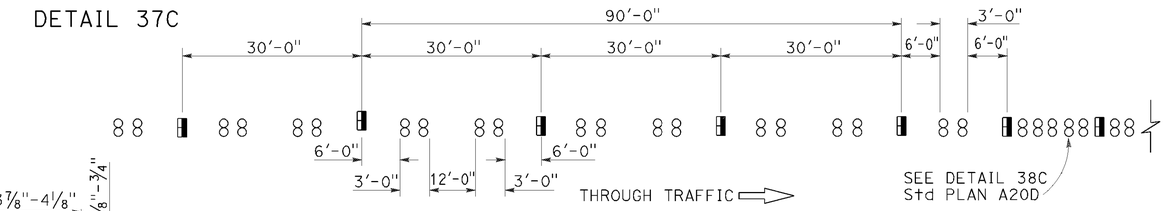
* The solid channelizing line shown may be omitted on short auxiliary lanes where weaving length is critical.

LANE DROP AT INTERSECTIONS

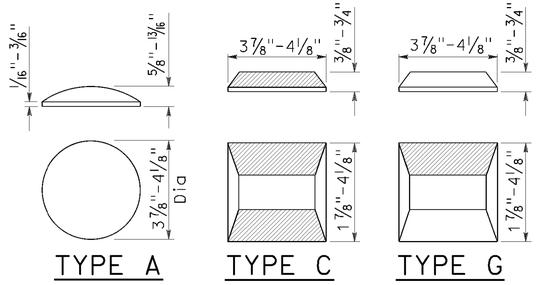
DETAIL 37B



DETAIL 37C



MARKER DETAILS



LEGEND:

MARKERS

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

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

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4-29-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	22	30

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

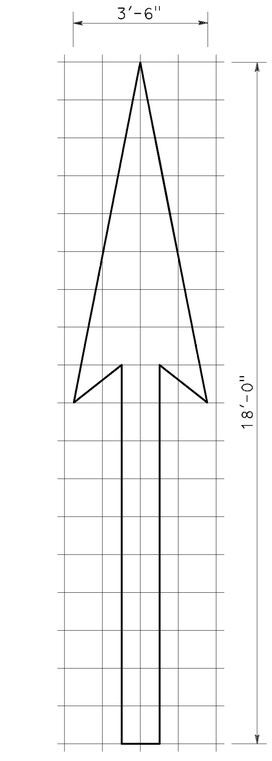
April 20, 2012
PLANS APPROVAL DATE

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.

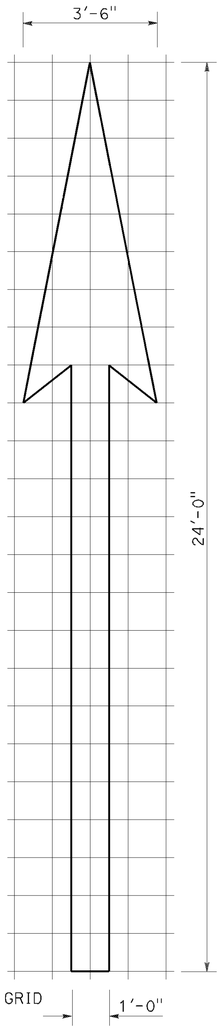
TO ACCOMPANY PLANS DATED 12-21-15

2010 REVISED STANDARD PLAN RSP A24A



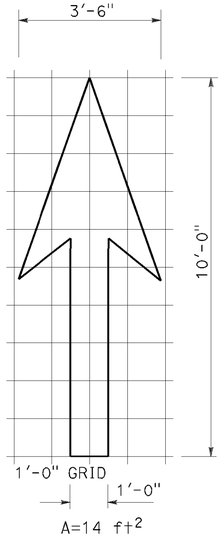
A=25 ft²

TYPE I 18'-0" ARROW



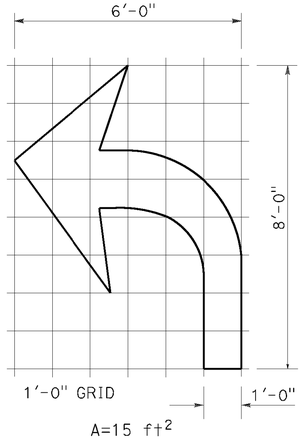
A=31 ft²

TYPE I 24'-0" ARROW



A=14 ft²

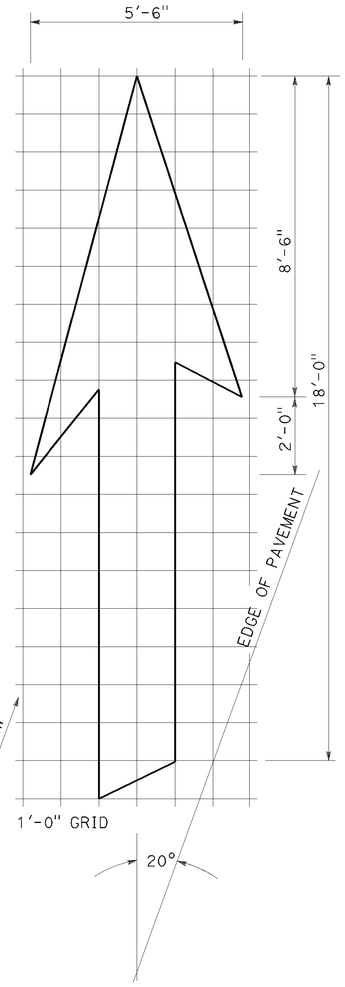
TYPE I 10'-0" ARROW



A=15 ft²

TYPE IV (L) ARROW

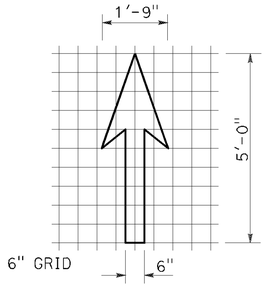
(For Type IV (R) arrow, use mirror image)



A=42 ft²

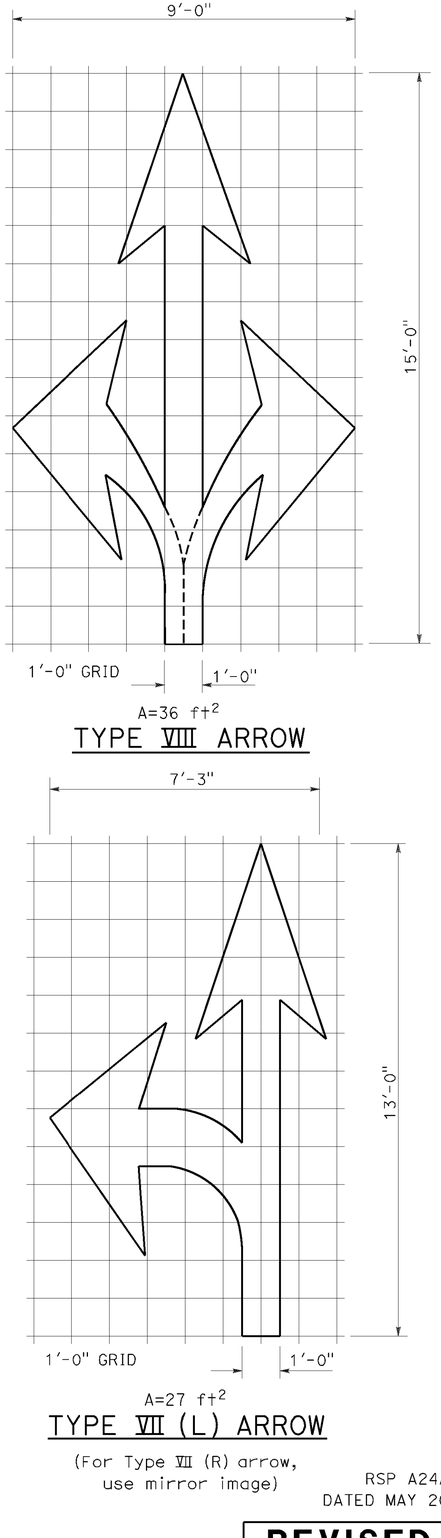
TYPE VI ARROW

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



A=3.5 ft²

BIKE LANE ARROW



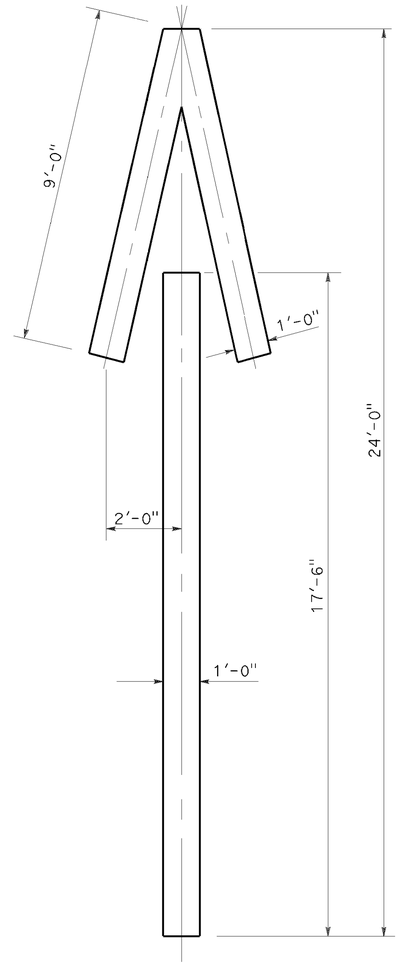
A=36 ft²

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

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3-14-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	23	30

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

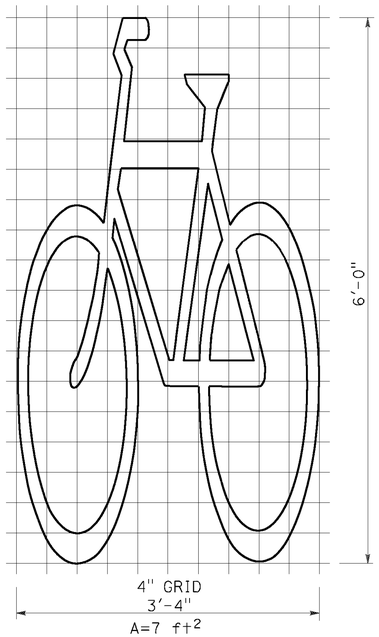
October 19, 2012
PLANS APPROVAL DATE

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

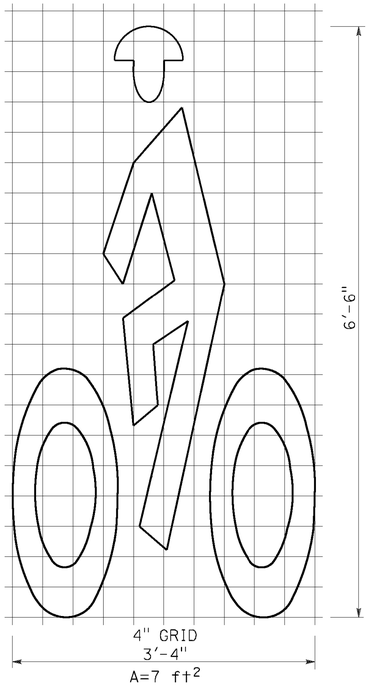
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE: TO ACCOMPANY PLANS DATED 12-21-15

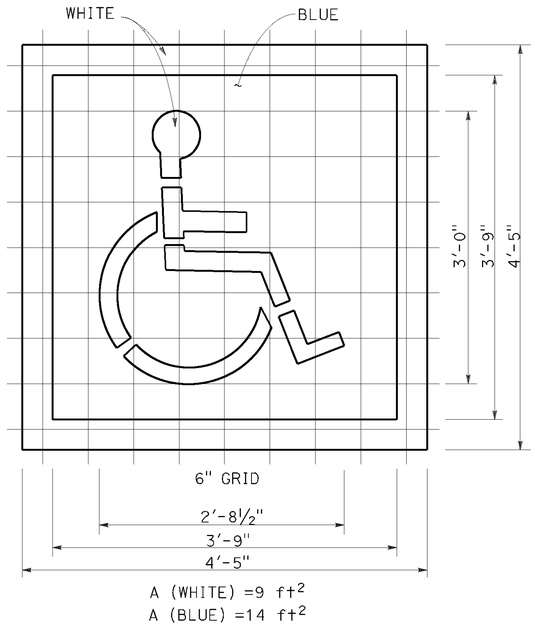
Minor variations in dimensions may be accepted by the Engineer.



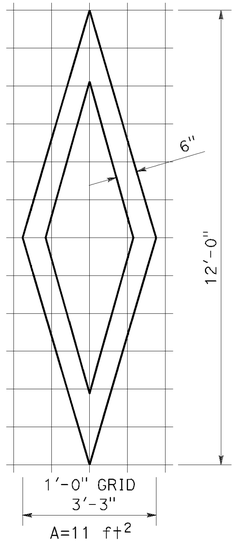
BIKE LANE SYMBOL WITHOUT PERSON



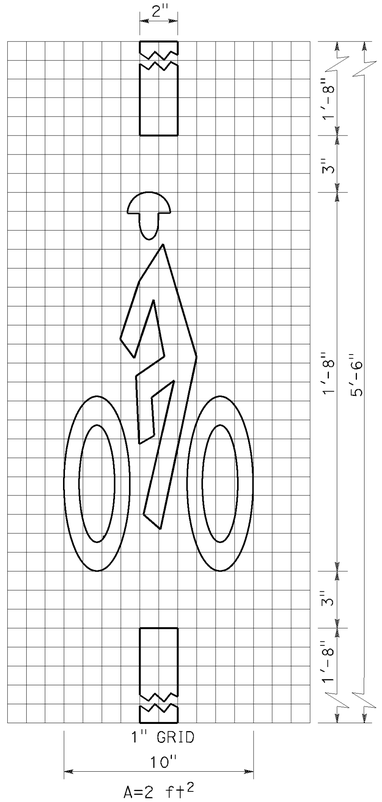
BIKE LANE SYMBOL WITH PERSON



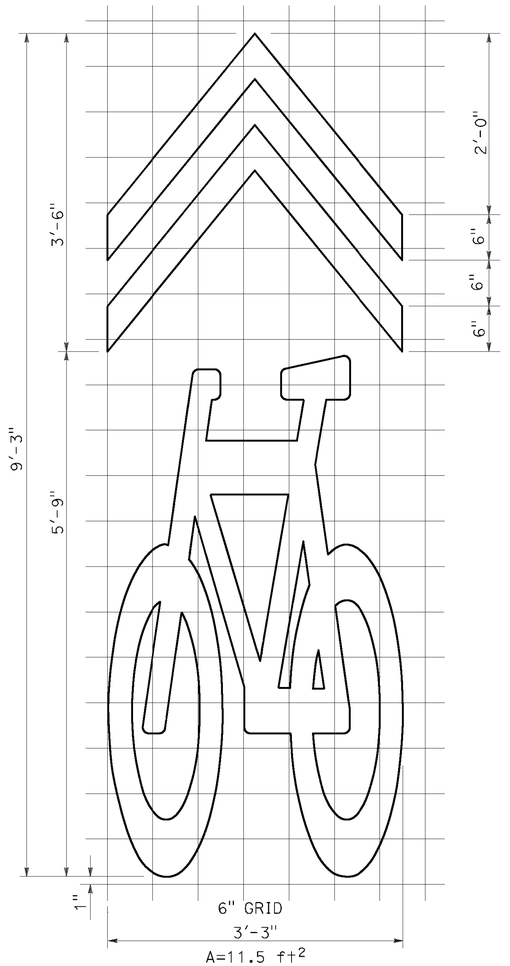
INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING



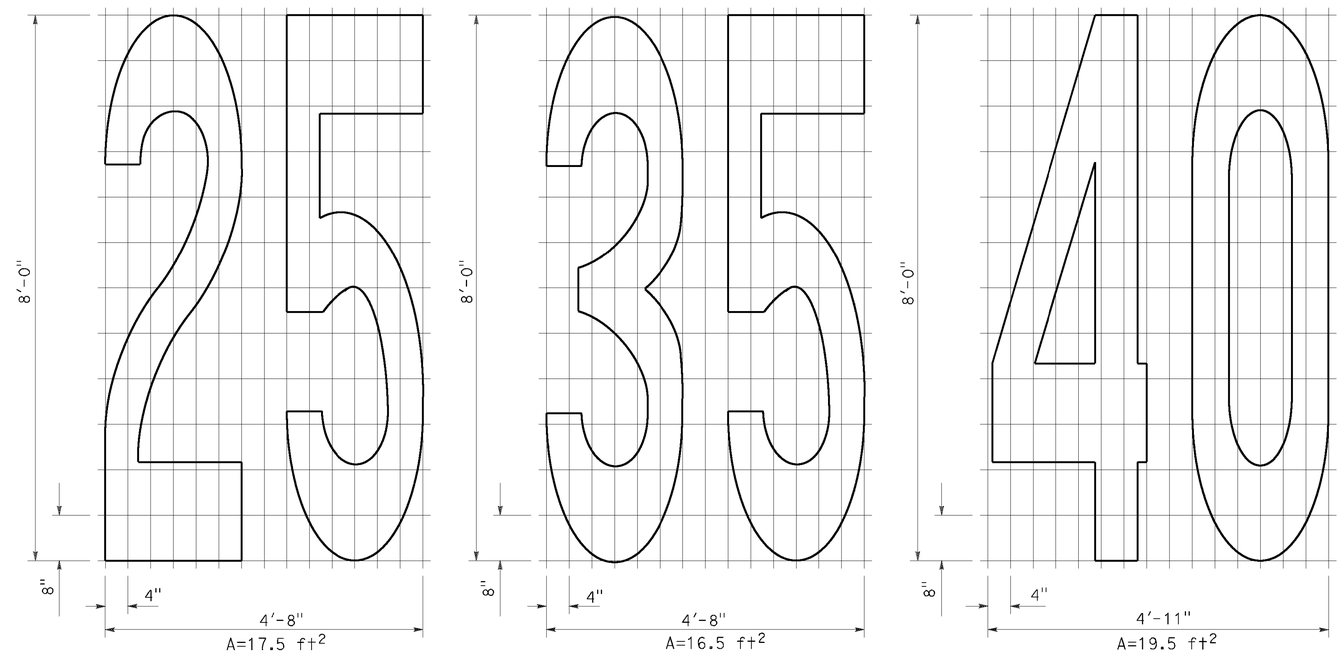
DIAMOND SYMBOL



BICYCLE LOOP DETECTOR SYMBOL



SHARED ROADWAY BICYCLE MARKING



NUMERALS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

RSP A24C DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A24C DATED MAY 20, 2011 - PAGE 15 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24C

2010 REVISED STANDARD PLAN RSP A24C

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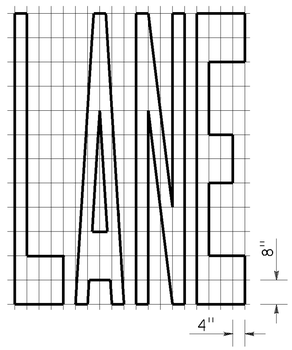
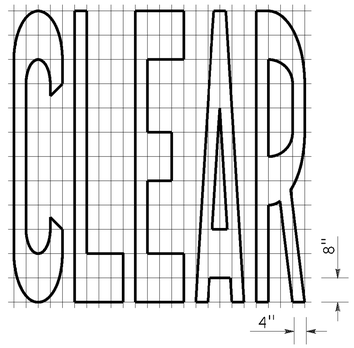
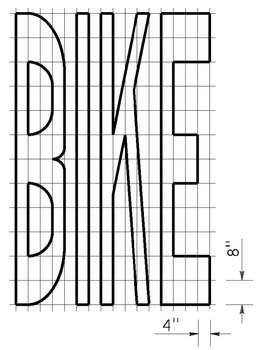
6-28-12



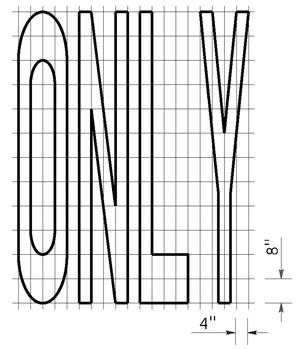
A=24 ft^2



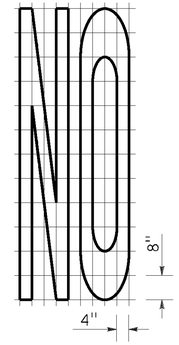
A=27 ft^2



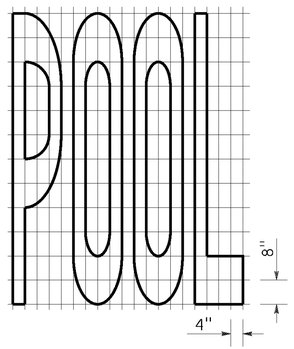
A=21 ft^2



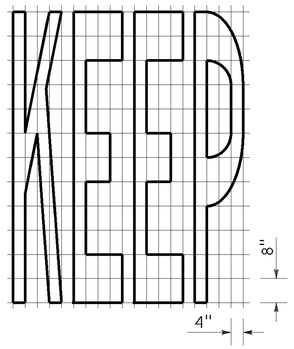
A=22 ft^2



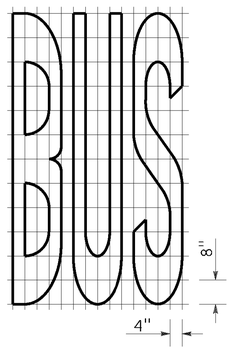
A=14 ft^2



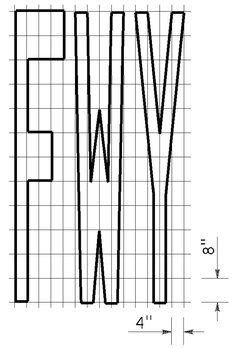
A=23 ft^2



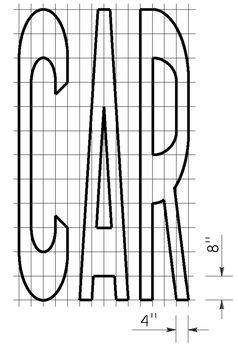
A=24 ft^2



A=20 ft^2

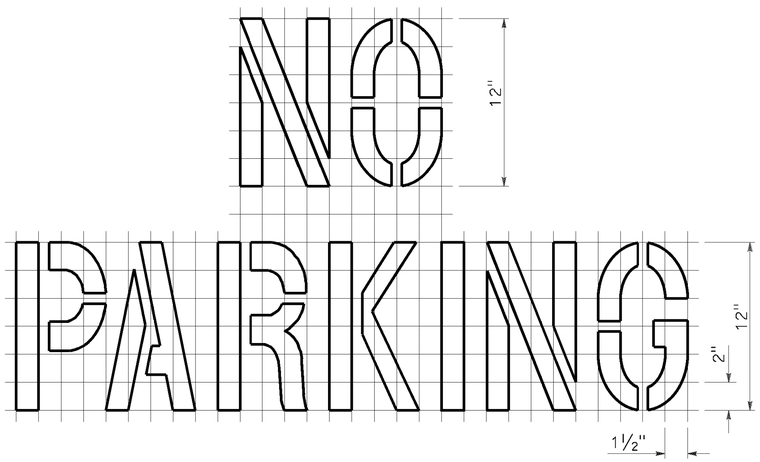


A=16 ft^2



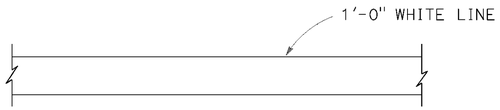
A=17 ft^2

WORD MARKINGS			
ITEM	ft^2	ITEM	ft^2
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16

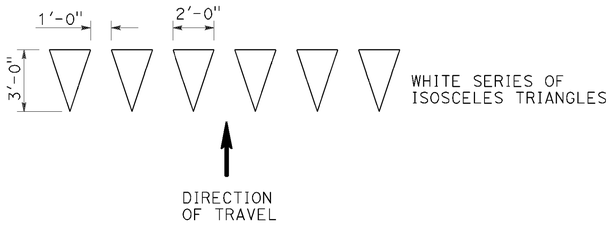


A=2 ft^2

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.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	24	30

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 12-21-15

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

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6-12-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	25	30

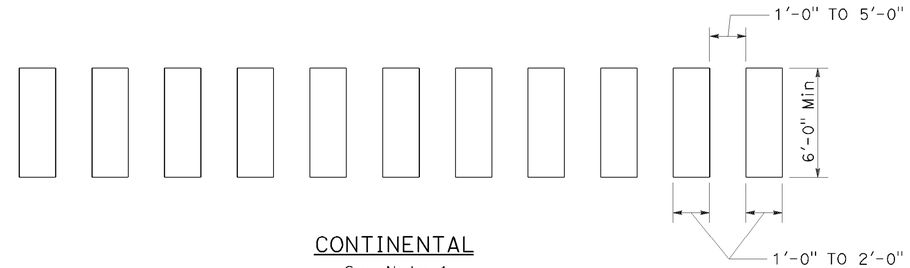
Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

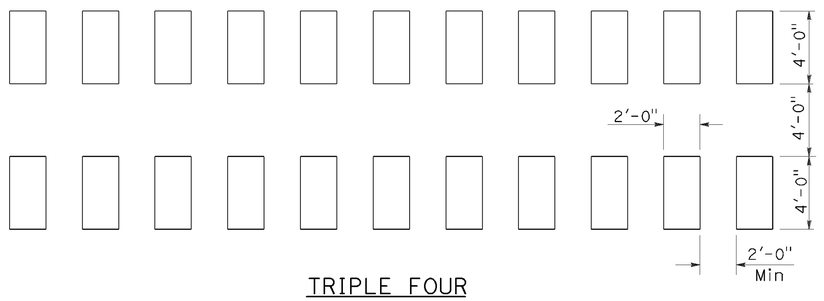
REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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.

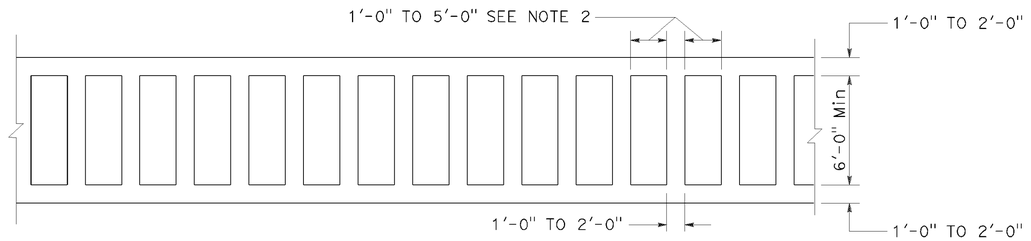
TO ACCOMPANY PLANS DATED 12-21-15



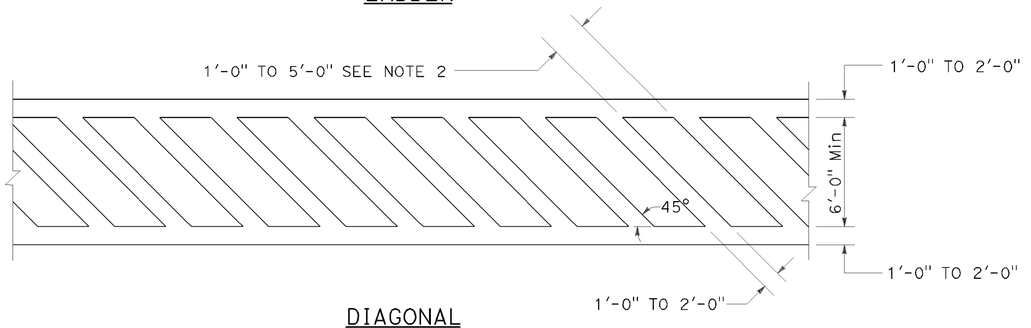
CONTINENTAL
See Note 1



TRIPLE FOUR
See Note 1



LADDER

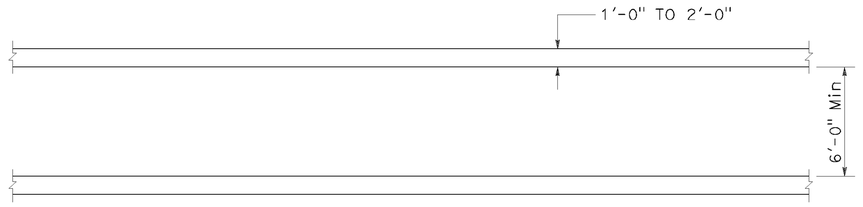


DIAGONAL

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

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6-28-12

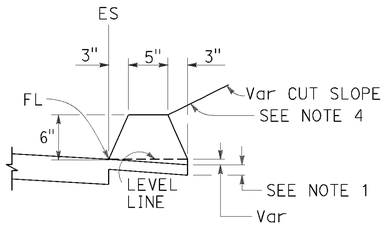
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	26	30

REGISTERED CIVIL ENGINEER

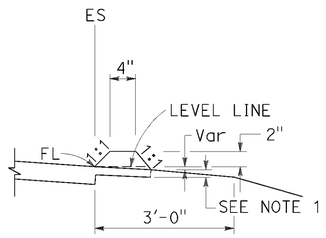
July 19, 2013
PLANS APPROVAL DATE

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

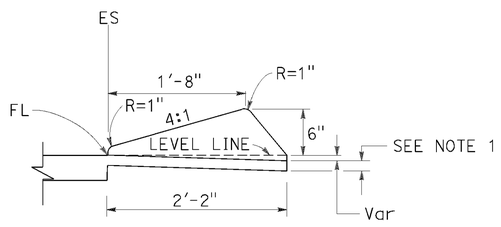
TO ACCOMPANY PLANS DATED 12-21-15



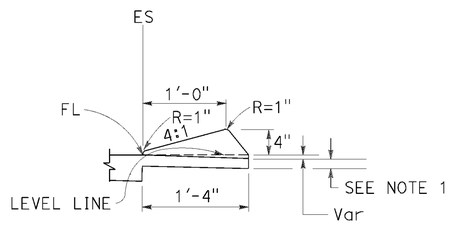
TYPE A
See Note 3



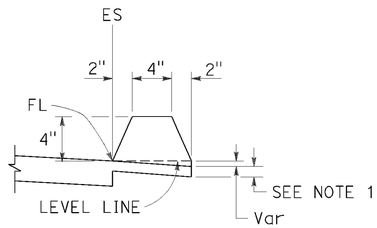
TYPE C



TYPE D

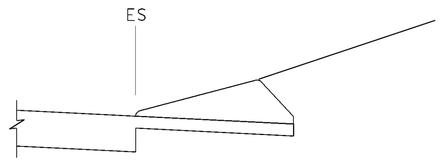


TYPE E

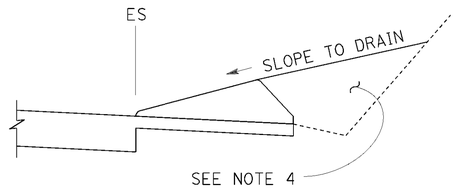


TYPE F
See Note 5

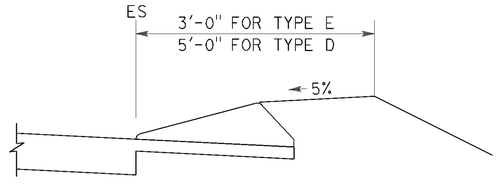
DIKES



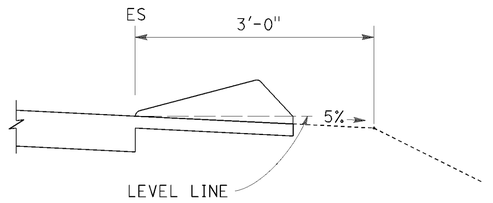
CASE C-1
Cut Slope



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

2010 REVISED STANDARD PLAN RSP A87B

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6-27-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	27	30

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

TO ACCOMPANY PLANS DATED 12-21-15

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING

SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
					X	Y	Z **
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	55	110	27
60	1440	720	360	240	60	120	30
65	1560	780	390	260	65	130	32
70	1680	840	420	280	70	140	35

* - For other offsets, use the following merging taper length formula for L:
For speed of 40 mph or less, $L = WS^2/60$
For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet
W = Width of offset in feet
S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING

SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
20	115	116	120	126
25	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
70	730	771	825	891

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Longitudinal buffer space or flagger station spacing

*** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommmended distances.

2010 REVISED STANDARD PLAN RSP T9

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T9

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4-30-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	28	30

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

TO ACCOMPANY PLANS DATED 12-21-15

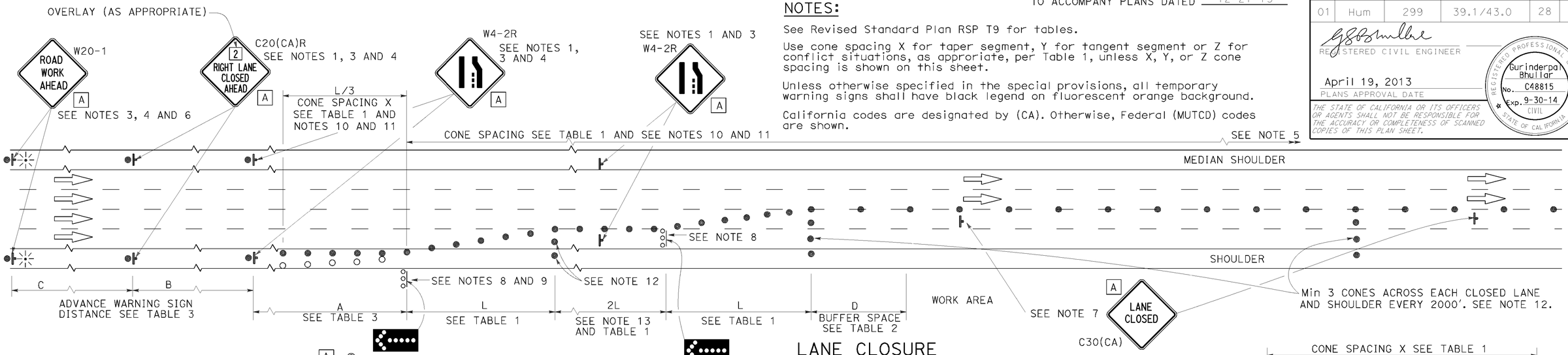
NOTES:

See Revised Standard Plan RSP T9 for tables.

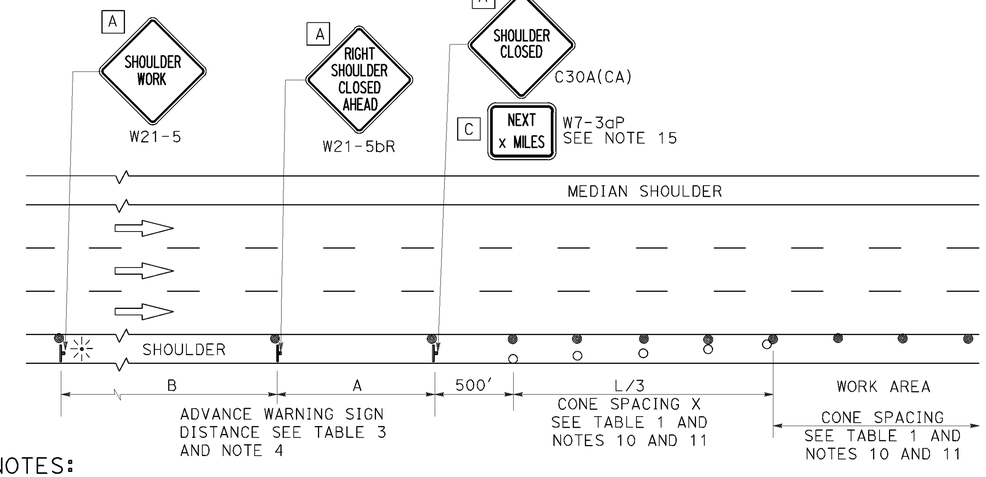
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

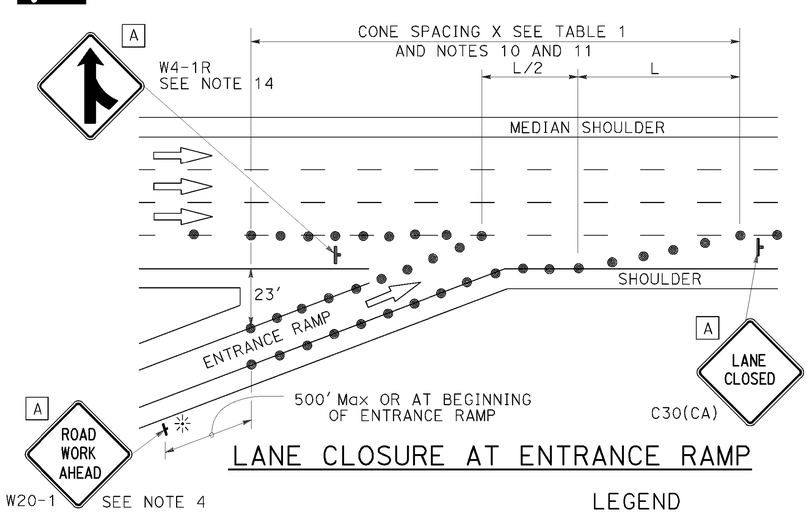
Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

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

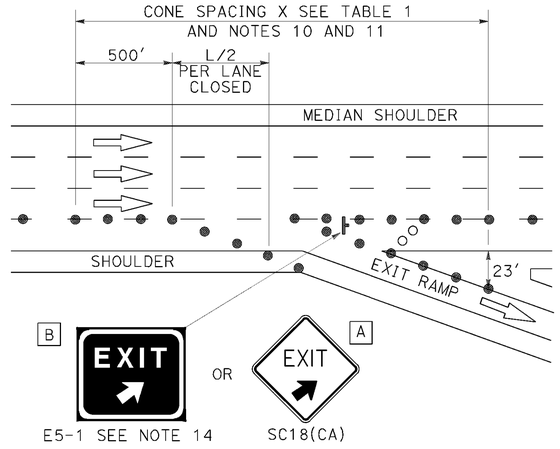


LANE CLOSURE





LANE CLOSURE AT ENTRANCE RAMP



LANE CLOSURE AT EXIT RAMP

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.

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.

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

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12-18-12

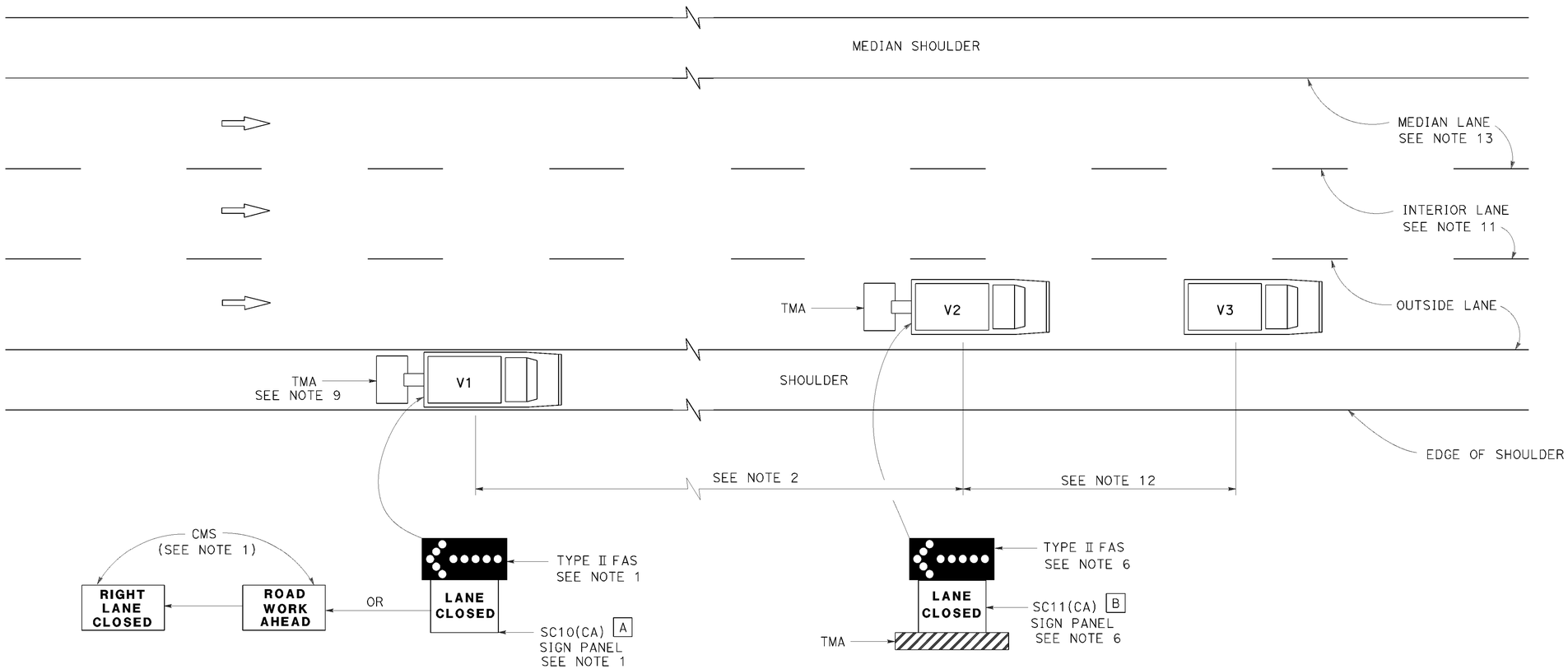
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	29	30

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

TO ACCOMPANY PLANS DATED 12-21-15



SIGN PANEL SIZE (Min)

A 66" x 36"

B 54" x 42"

LEGEND

V1	SIGN VEHICLE
V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
	FLASHING ARROW SIGN (FAS)
CMS	CHANGEABLE MESSAGE SIGN
TMA	TRUCK-MOUNTED ATTENUATOR

MOVING LANE CLOSURE ON MEDIAN LANE OR OUTSIDE LANE OF MULTILANE HIGHWAYS

NOTES:

1. Either a changeable message sign or a SC10(CA) sign panel and a Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "RIGHT LANE CLOSED" message. For median lane closure, the flashing arrow symbol shall be reversed with the arrowhead on the right and the changeable message sign shall show "LEFT LANE CLOSED".
2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
3. A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
5. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2. For median lane closure the flashing arrow sign symbol shall be displayed with the arrowhead on the right.
7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.
10. Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11, etc., as applicable) shall be used instead of this plan.
11. For moving lane closure on interior lane of multilane highways, use Revised Standard Plan T16.
12. The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.
13. When the work/application vehicle V3 occupies the median lane, sign vehicle V1 should drive in the median shoulder and indicate left lane closed ahead.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS

NO SCALE

RSP T15 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T15
DATED MAY 20, 2011 - PAGE 243 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T15

2010 REVISED STANDARD PLAN RSP T15

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12-18-12

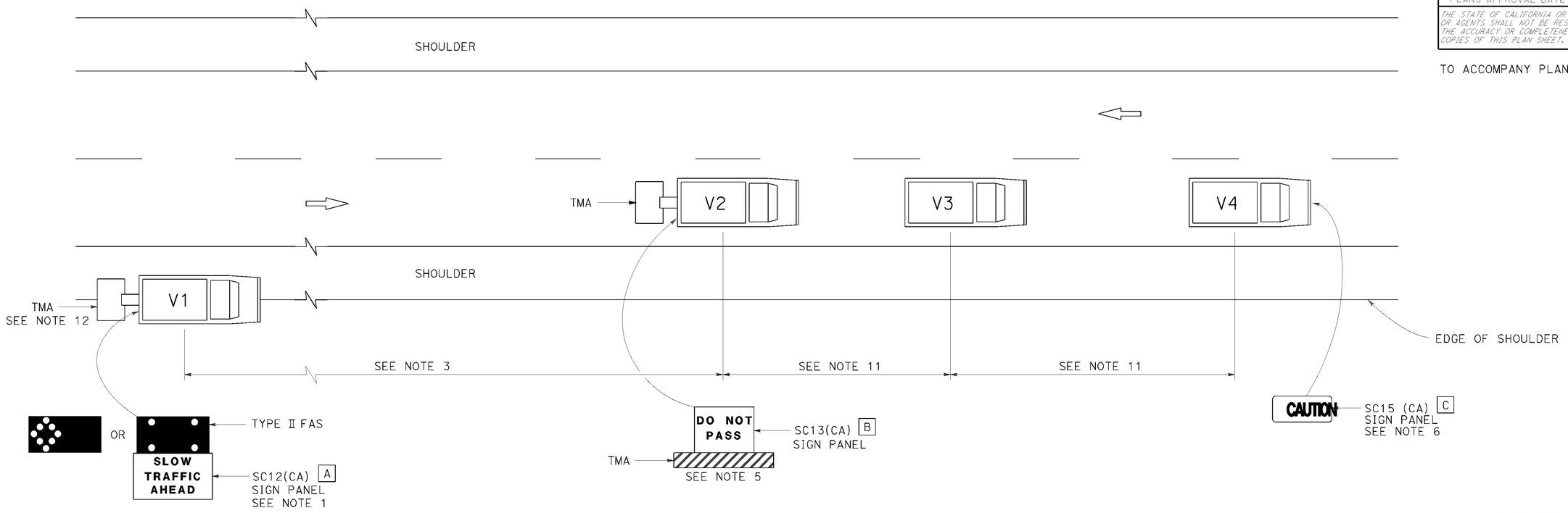
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	299	39.1/43.0	30	30

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

TO ACCOMPANY PLANS DATED 12-21-15



NOTES:

1. Either a changeable message sign or a SC12(CA) "SLOW TRAFFIC AHEAD" sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "CAUTION" message first, follow by the "SLOW TRAFFIC AHEAD" message. A Type II flashing arrow sign may be used with the SC12(CA) sign panel.
2. Sign vehicle V1 should be positioned where highly visible when shoulders are not available.
3. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue.
4. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
5. Shadow vehicle shall be equipped with a truck-mounted attenuator. The sign panel shown shall be mounted on the rear of shadow vehicle V2. The message "LANE CLOSED" may be used in place of the "DO NOT PASS" message.
6. The sign panel shown shall be mounted on the front of sign vehicle V4, facing opposing traffic.
7. All vehicles shall be equipped with flashing or rotating amber lights.
8. Sign vehicle V4 will not be required when the work and vehicles V2 and V3 are 2' or more from the centerline of the highway during the work or application operations.
9. All vehicles used for lane closures shall be equipped with two-way radios and the vehicle operators shall maintain communication during the work or application operation.
10. This plan shall not be used where workers would be on foot in the work area. Use a stationary type lane closure (Revised Standard Plan T13) for this condition.
11. Minimize spacing between vehicles V2 and V3 and vehicles V3 and V4 to deter road users from driving in between them.
12. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.

LEGEND

V1	SIGN VEHICLE
V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
V4	SIGN VEHICLE
TMA	TRUCK-MOUNTED ATTENUATOR
	FLASHING ARROW SIGN (FAS) IN FLASHING CAUTION MODE
	FLASHING ARROW SIGN (FAS) IN ALTERNATING DIAMOND CAUTION

SIGN PANEL SIZE (Min)

A	72" x 42"
B	54" x 42"
C	54" x 24"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON TWO LANE HIGHWAYS

NO SCALE

RSP T17 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T17
DATED MAY 20, 2011 - PAGE 245 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T17

2010 REVISED STANDARD PLAN RSP T17

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12-18-12