Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	1	33

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3	LAYOUTS
4	PROFILES
5-9	CONSTRUCTION DETAILS
10	CONSTRUCTION AREA SIGNS
11-14	MOTORIST INFORMATION PLANS
15-18	STAGE CONSTRUCTION AND TRAFFIC HANDLING PLANS
19	TRAFFIC HANDLING QUANTITIES
20-21	PAVEMENT DELINEATION PLANS AND QUANTITIES
22	SUMMARY OF QUANTITIES
23-33	REVISED STANDARD PLANS

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

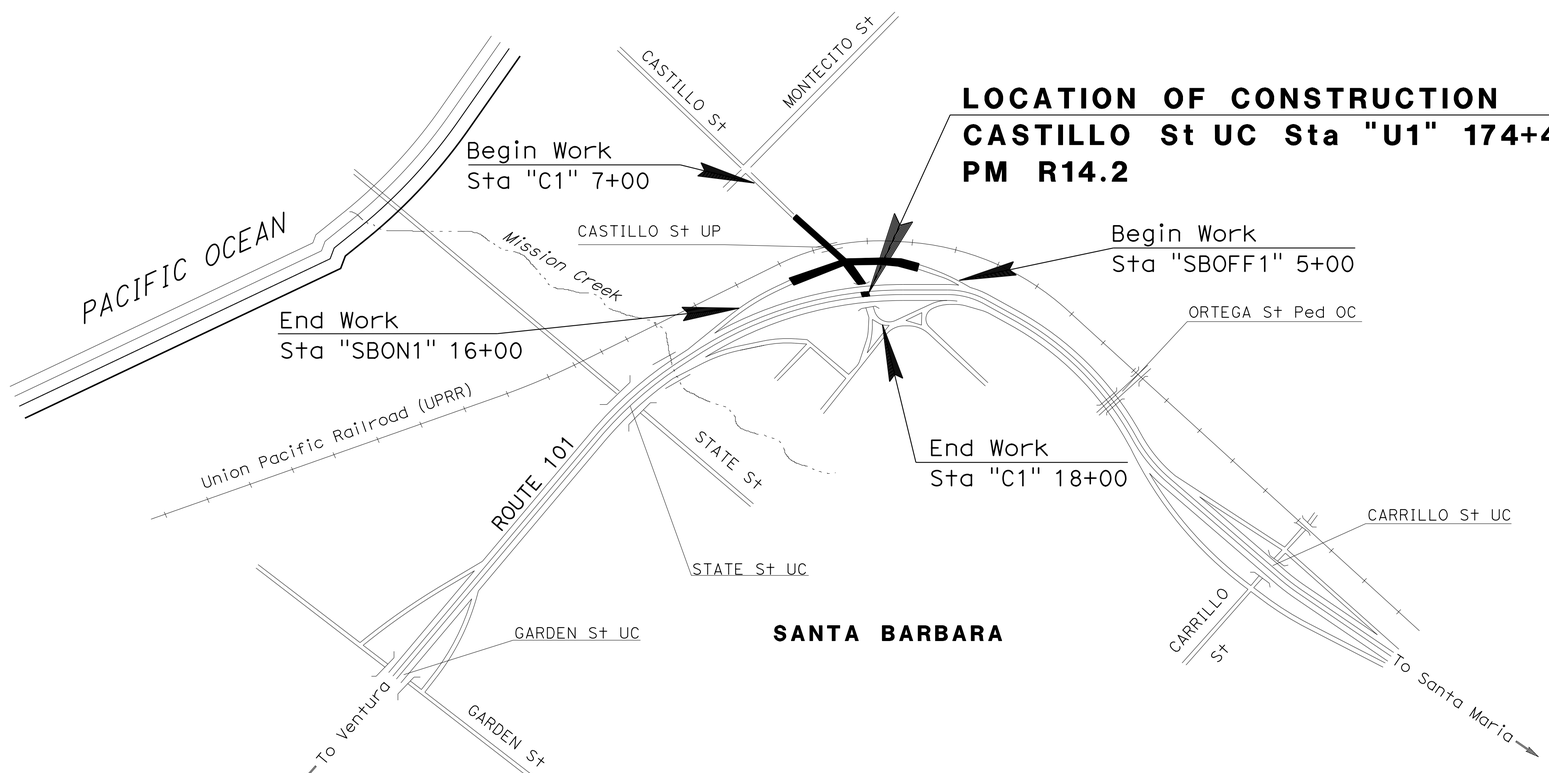
STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR HIGHWAY CONSTRUCTION

IN SANTA BARBARA COUNTY
IN SANTA BARBARA
AT CASTILLO STREET UNDERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



LOCATION OF CONSTRUCTION
CASTILLO St UC Sta "U1" 174+46.41
PM R14.2

NO SCALE

Kyle Birch 2-9-15
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

February 9, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KYLE BIRCH
No. 74994
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

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

PROJECT MANAGER DAVID BEARD

DESIGN MANAGER JOHN FOUCHE

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

CONTRACT No.	05-1F6104
PROJECT ID	0514000037

LAST REVISION 01-26-15 DATE PLOTTED => 19-FEB-2015 TIME PLOTTED => 10:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	2	33

REGISTERED CIVIL ENGINEER Kyle Birch 2-9-15 DATE

2-9-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE BIRCH No. 74994 Exp. 12-31-15 CIVIL STATE OF CALIFORNIA

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

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. WHEN COLD PLANING BEWARE OF VARIOUS METAL GROUT TUBE TOPS ON SEAL SLAB SURFACE.

ABBREVIATION:

PICP - PERMEABLE INTERLOCKING CONCRETE PAVEMENT

CASTILLO STREET DESIGN DESIGNATION

ADT (2015)	22,255	D	60%
ADT (2025)	23,094	T	2%
DHV	2,566	V	30 mph
ESAL	617,900	TI20	8.5

PAVEMENT CLIMATE REGION

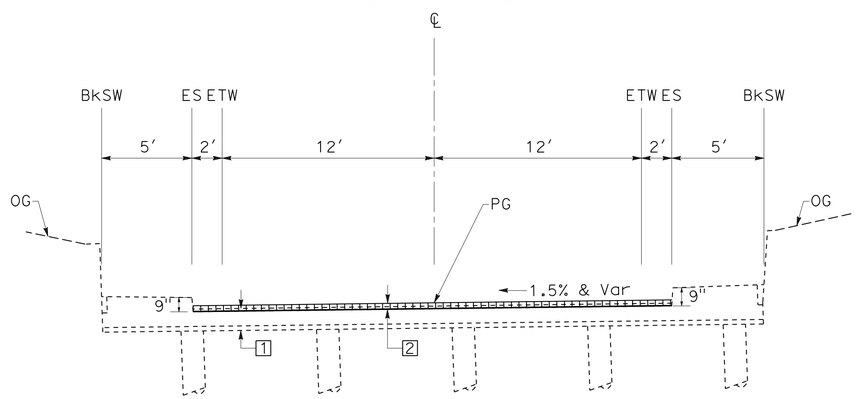
CENTRAL COAST

PAVEMENT STRUCTURE SECTIONS

1 Exist
0.21' AC
2.83' PCC

2 0.21' COLD PLANE AC PAVEMENT
0.34' PICP — 0.26' PERMEABLE INTERLOCKING CONCRETE PAVERS; 0.08' AGGREGATE BEDDING

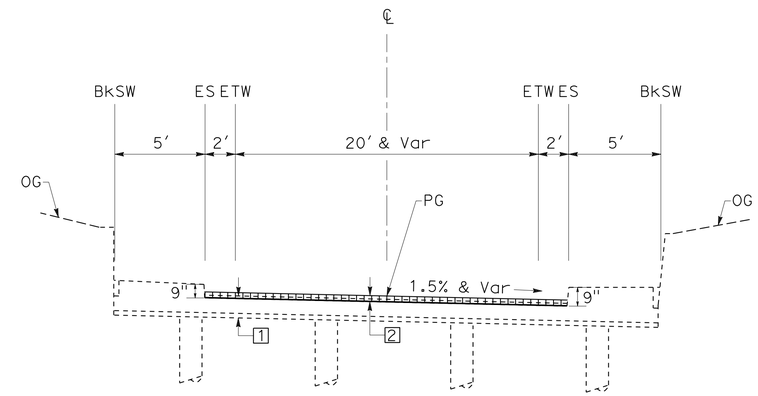
"SBOFF1" LINE



Rte 101 SB OFF-RAMP "SBOFF1"

Sta 11+44 TO Sta 12+36

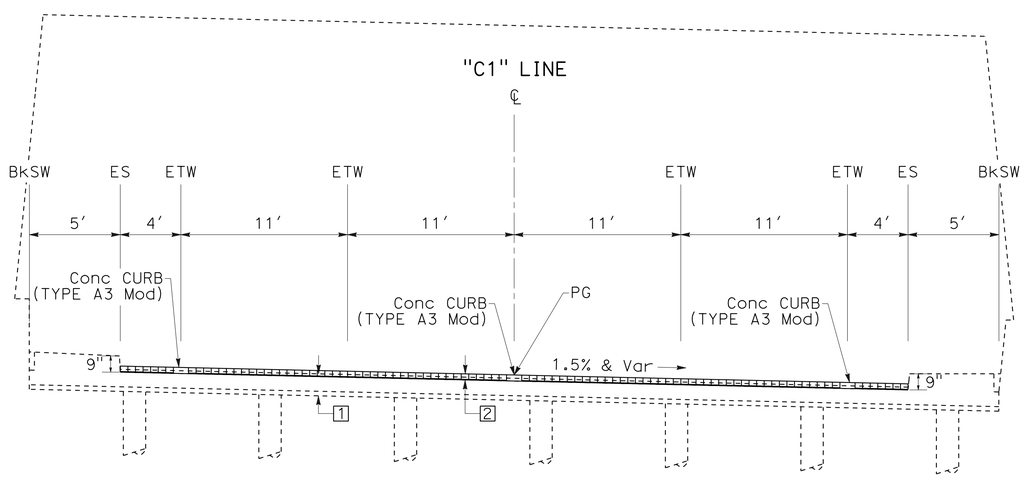
"SBON1" LINE



Rte 101 SB ON-RAMP "SBON1"

Sta 12+95 TO Sta 13+87

"C1" LINE



CASTILLO STREET "C1"

Sta 11+43 TO Sta 14+20

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: JOHN FOUCHE
CALCULATED-DESIGNED BY: CHRISTOPHER BAAB
CHECKED BY: KYLE BIRCH
REVISED BY
DATE REVISED

LAST REVISION 01-26-15
DATE PLOTTED => 19-FEB-2015
TIME PLOTTED => 10:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	3	33

REGISTERED CIVIL ENGINEER — DATE 2-9-15

PLANS APPROVAL DATE 2-9-15

REGISTERED PROFESSIONAL ENGINEER KYLE BIRCH No. 74994 Exp. 12-31-15 CIVIL STATE OF CALIFORNIA

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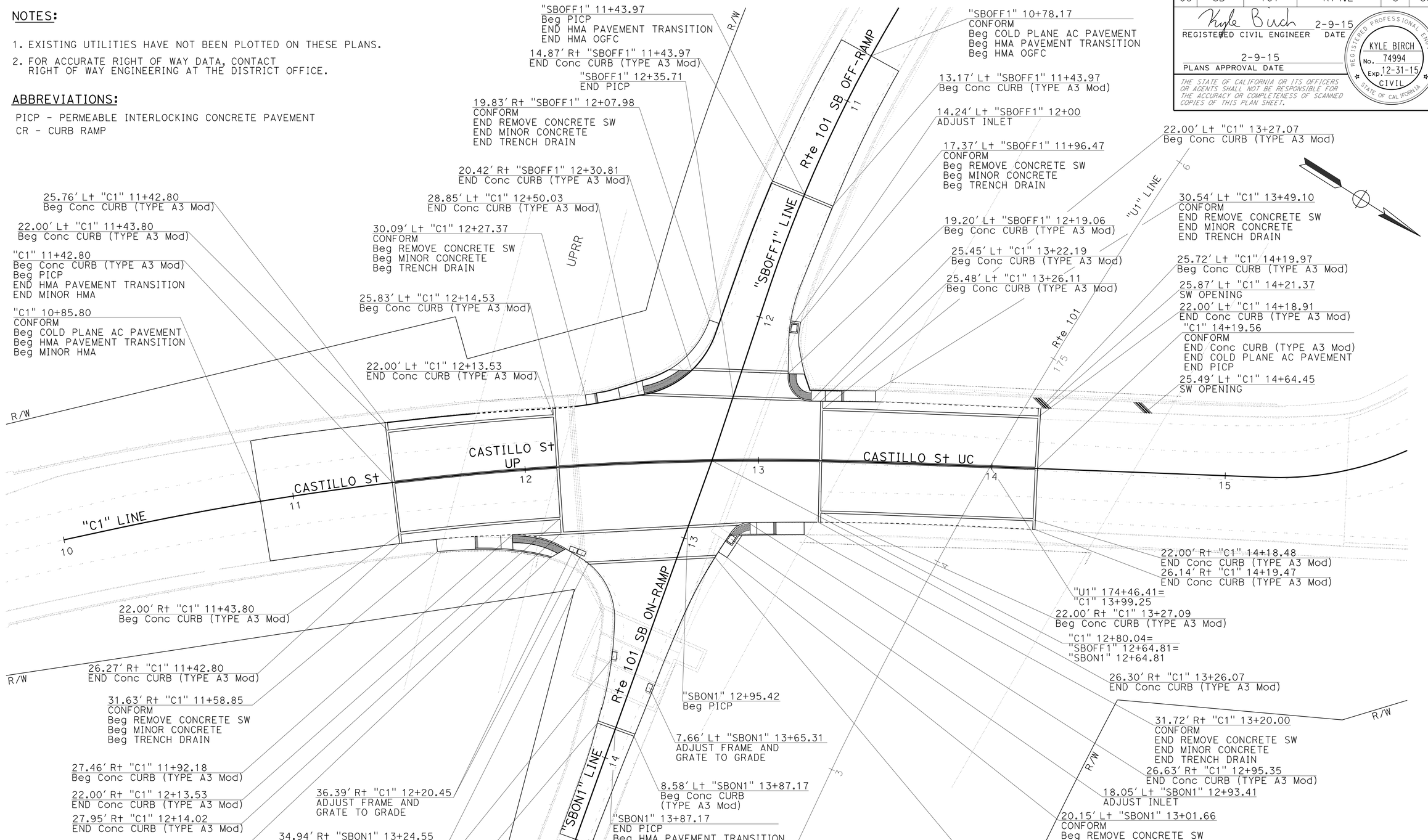
NOTES:

1. EXISTING UTILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

ABBREVIATIONS:

PICP - PERMEABLE INTERLOCKING CONCRETE PAVEMENT
CR - CURB RAMP



SCALE 1" = 20'

LAYOUT
L-1

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: CHRISTOPHER BAAB
CHECKED BY: KYLE BIRCH
FUNCTIONAL SUPERVISOR: JOHN FOUCHE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

LAST REVISION 01-26-15
DATE PLOTTED => 19-FEB-2015
TIME PLOTTED => 10:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	4	33

Kyle Birch 2-9-15
REGISTERED CIVIL ENGINEER DATE

2-9-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KYLE BIRCH
No. 74994
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

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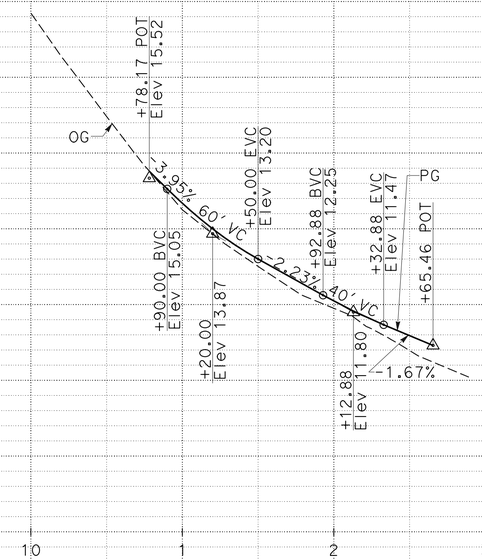
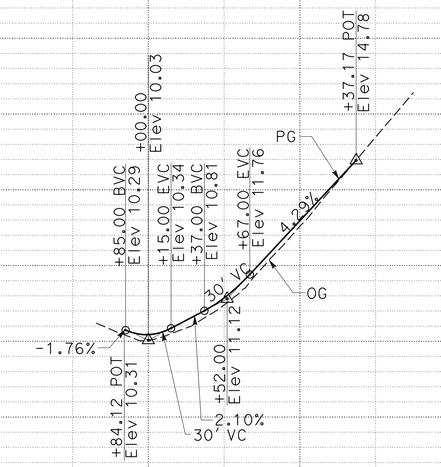
NOTE:

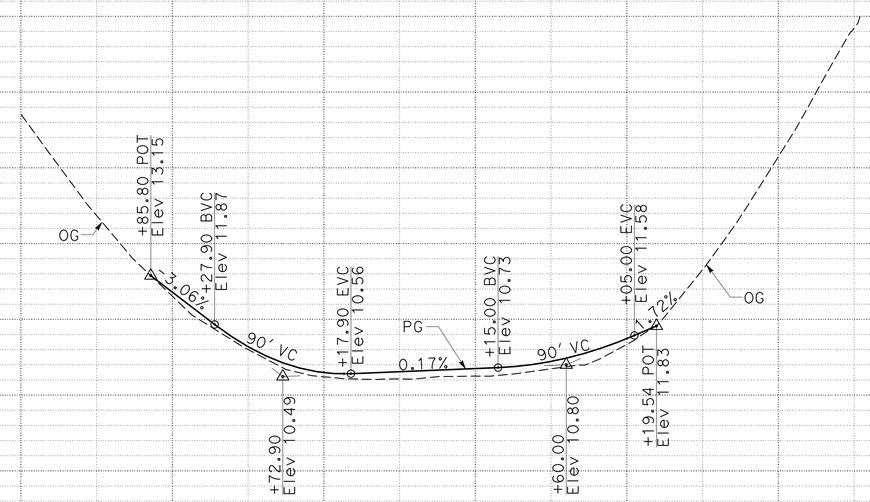
ALL ELEVATIONS ARE BASED ON NAVD 88.



Rte 101 SB OFF-RAMP
"SBOFF1" LINE



Rte 101 SB ON-RAMP
"SBON1" LINE



CASTILLO St
"C1" LINE

SCALE: Horiz 1" =50'
Vert 1" =2'

PROFILE

P-1

STATION 10 1 2 3 4 15 6 7 8 9 TOTAL

CY Exc
CY Emb

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: JOHN FOUCHE
CALCULATED-DESIGNED BY: CHRISTOPHER BAAB
CHECKED BY: KYLE BIRCH
REVISED BY
DATE REVISED

LAST REVISION 01-26-15
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REGISTERED CIVIL ENGINEER Kyle Birch DATE 2-9-15

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REGISTERED PROFESSIONAL ENGINEER KYLE BIRCH No. 74994 Exp. 12-31-15 CIVIL STATE OF CALIFORNIA

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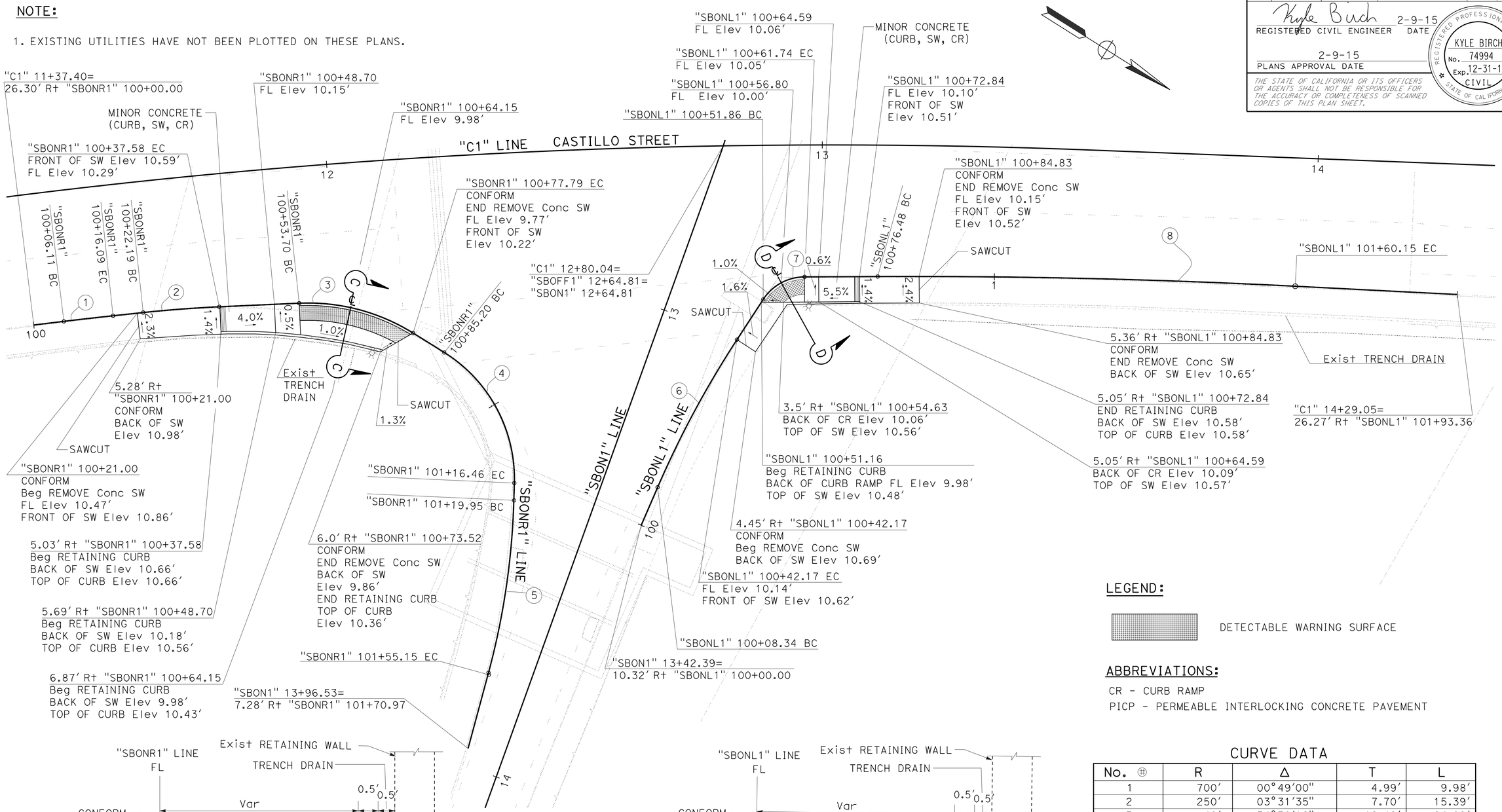
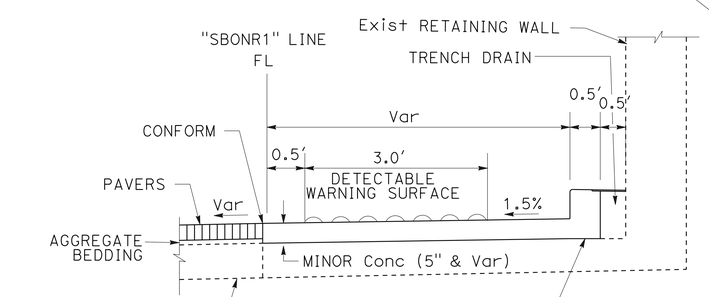


LEGEND:

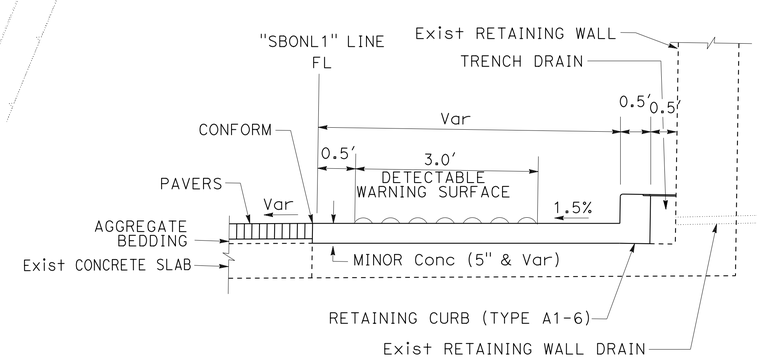
DETECTABLE WARNING SURFACE

ABBREVIATIONS:

CR - CURB RAMP
PICP - PERMEABLE INTERLOCKING CONCRETE PAVEMENT



SECTION C-C



SECTION D-D

CURVE DATA

No. ⊕	R	Δ	T	L
1	700'	00°49'00"	4.99'	9.98'
2	250'	03°31'35"	7.70'	15.39'
3	40'	34°30'12"	12.42'	24.09'
4	30'	59°42'00"	17.22'	31.26'
5	150'	13°26'48"	17.68'	35.20'
6	200'	09°41'28"	16.95'	33.83'
7	10'	56°37'45"	5.39'	9.88'
8	1500'	03°11'46"	41.85'	83.67'

CONSTRUCTION DETAILS

SCALE 1" = 10'

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
FUNCTIONAL SUPERVISOR: JOHN FOUCHE
CALCULATED-DESIGNED BY: RAY RIAHI
CHECKED BY: KYLE BIRCH
REVISED BY
DATE REVISED

LAST REVISION 01-26-15
DATE PLOTTED => 19-FEB-2015
TIME PLOTTED => 10:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	6	33

REGISTERED CIVIL ENGINEER Kyle Birch DATE 2-9-15

PLANS APPROVAL DATE 2-9-15

REGISTERED PROFESSIONAL ENGINEER KYLE BIRCH No. 74994 Exp. 12-31-15 CIVIL STATE OF CALIFORNIA

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NOTE:

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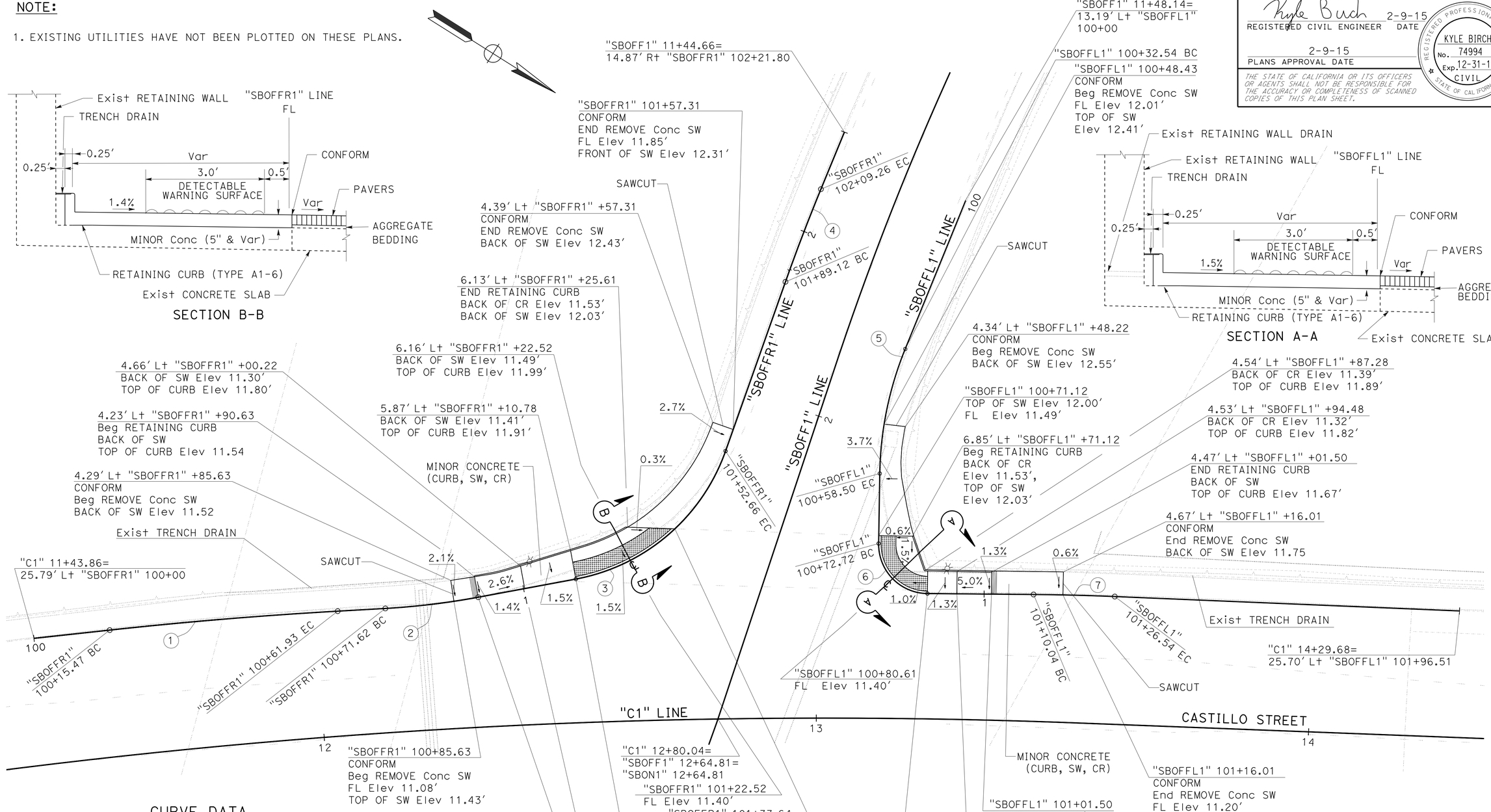

CURVE DATA

No. ⊕	R	Δ	T	L
1	900'	02°57'27"	23.23'	46.46'
2	150'	07°15'43"	9.52'	19.01'
3	40'	59°58'53"	23.09'	41.87'
4	400'	02°53'04"	10.07'	20.14'
5	70'	21°14'54"	13.13'	25.96'
6	10'	90°24'52"	10.07'	15.78'
7	500'	01°53'24"	8.25'	16.49'

CONSTRUCTION DETAILS

SCALE 1" = 10'

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DESIGN

FUNCTIONAL SUPERVISOR JOHN FOUCHE

CALCULATED-DESIGNED BY RAY RIAHI

CHECKED BY KYLE BIRCH

REVISED BY

DATE REVISED

LAST REVISION 01-26-15

DATE PLOTTED => 19-FEB-2015

TIME PLOTTED => 10:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	7	33

REGISTERED CIVIL ENGINEER — DATE: 2-9-15

PLANS APPROVAL DATE: 2-9-15

REGISTERED PROFESSIONAL ENGINEER — KYLE BIRCH No. 74994 Exp. 12-31-15 CIVIL — STATE OF CALIFORNIA

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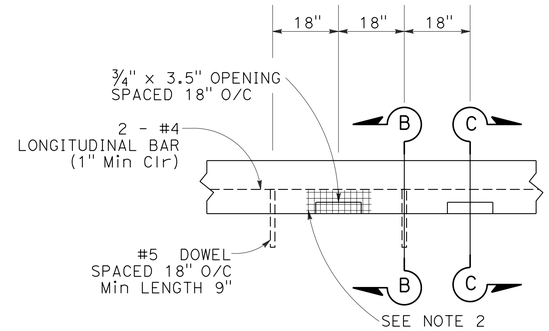
NOTES:

1. EXISTING UTILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
2. 6" SQUARE GALVANIZED STEEL WIRE 1/4" MESH HARDWARE CLOTH WITH NONWOVEN FILTER FABRIC, Min WIRE DIAMETER 0.025". ANCHOR FIRMLY TO BACKFACE.
3. ALL CONCRETE CURB (TYPE A3 Mod) SHALL HAVE A ROUGH BROOM FINISH.
4. ALL BAR REINFORCING STEEL SHALL BE EPOXY-COATED.

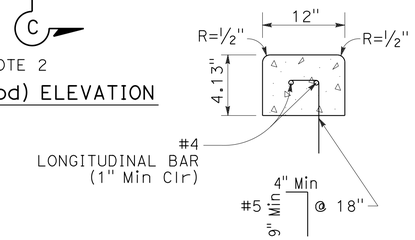
PAVER SIDE VIEW

45° HERRINGBONE PATTERN

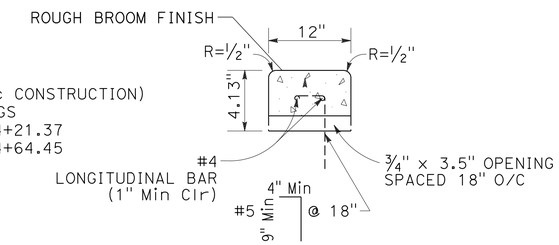
TYPICAL SPACER TO BLOCK DETAIL, PERMEABLE PAVER



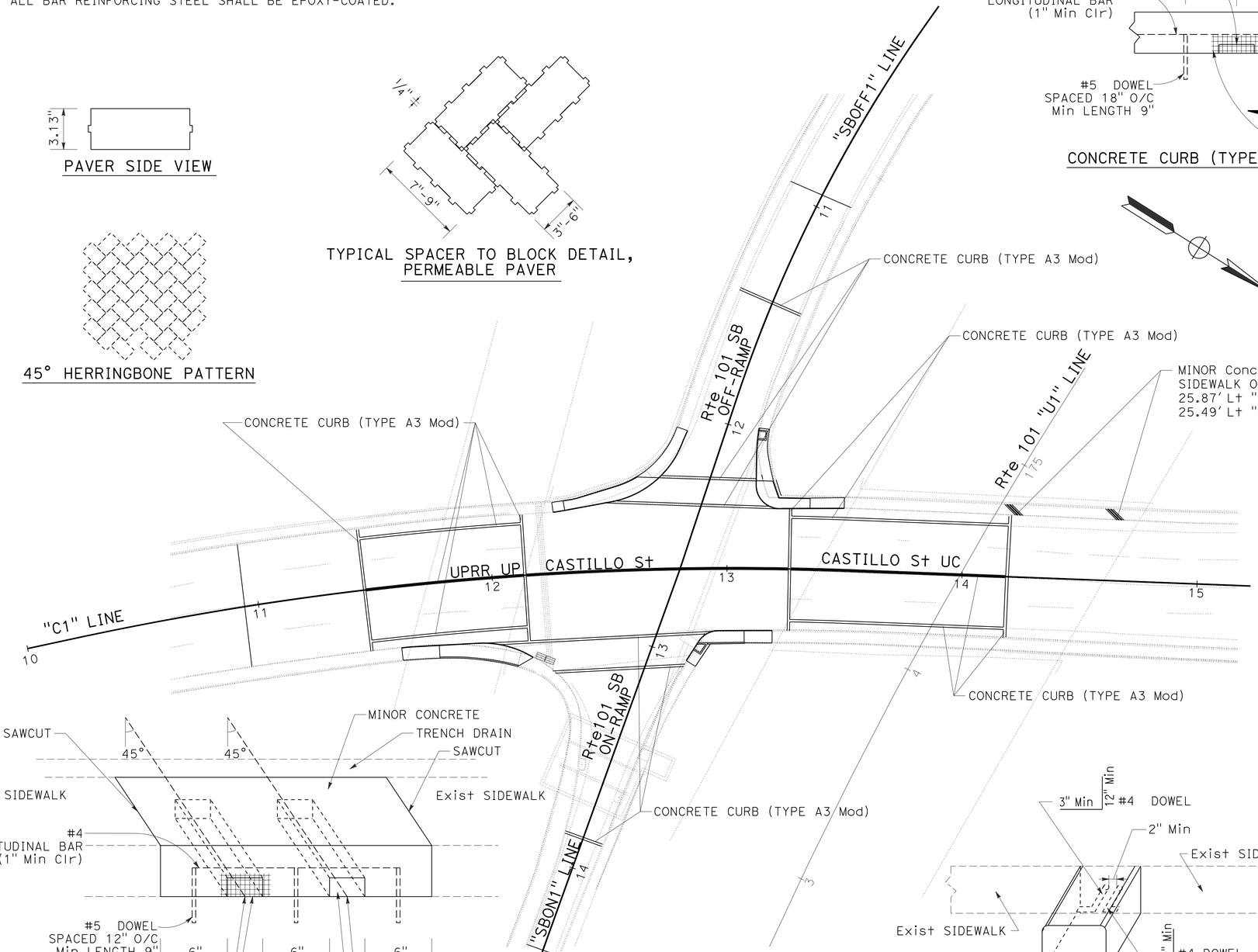
CONCRETE CURB (TYPE A3 Mod) ELEVATION

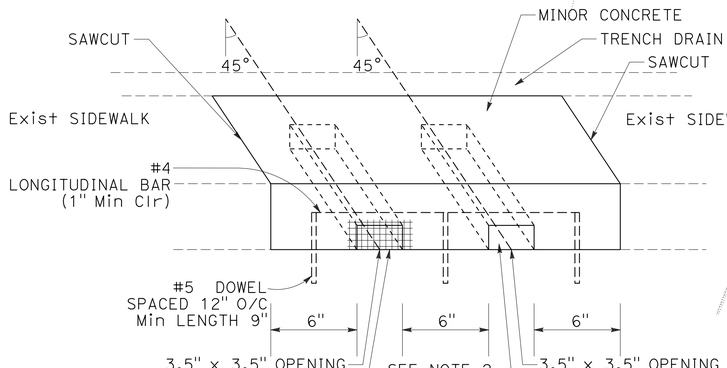


SECTION B-B

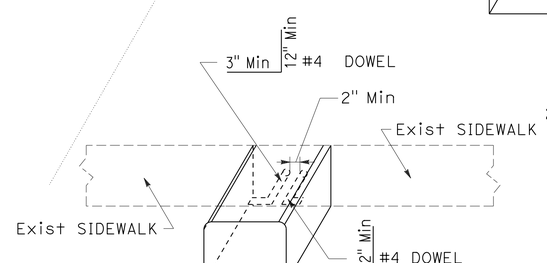


SECTION C-C

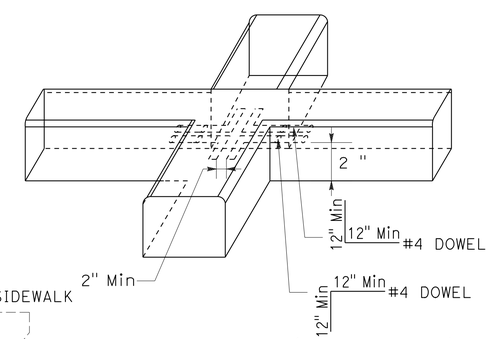




MINOR CONCRETE (Misc CONSTRUCTION) SIDEWALK OPENINGS



CONCRETE CURB (TYPE A3 Mod) CONNECTION TO Exist SIDEWALK DETAIL



CONCRETE CURB (TYPE A3 Mod) CONNECTION DETAIL

CONSTRUCTION DETAILS

NO SCALE

C-3

REVISED BY | DATE REVISED

CHRISTOPHER BAAB | KYLE BIRCH

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: JOHN FOUCHE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DESIGN — Caltrans

LAST REVISION 01-26-15 | DATE PLOTTED => 19-FEB-2015 | TIME PLOTTED => 10:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	8	33

REGISTERED CIVIL ENGINEER Kyle Birch 2-9-15 DATE

2-9-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE BIRCH No. 74994 Exp. 12-31-15 CIVIL STATE OF CALIFORNIA

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NOTES:

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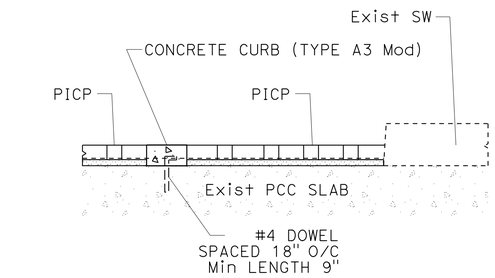
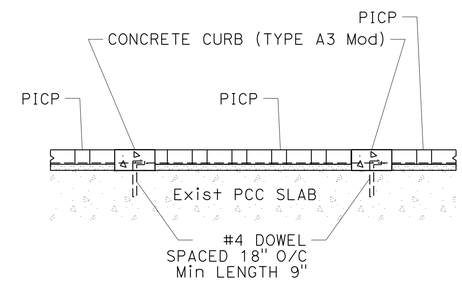
2. ALL CONCRETE CURB (TYPE A3 Mod) SHALL HAVE A ROUGH BROOM FINISH.
3. ALL BAR REINFORCING STEEL SHALL BE EPOXY-COATED.

LEGEND:

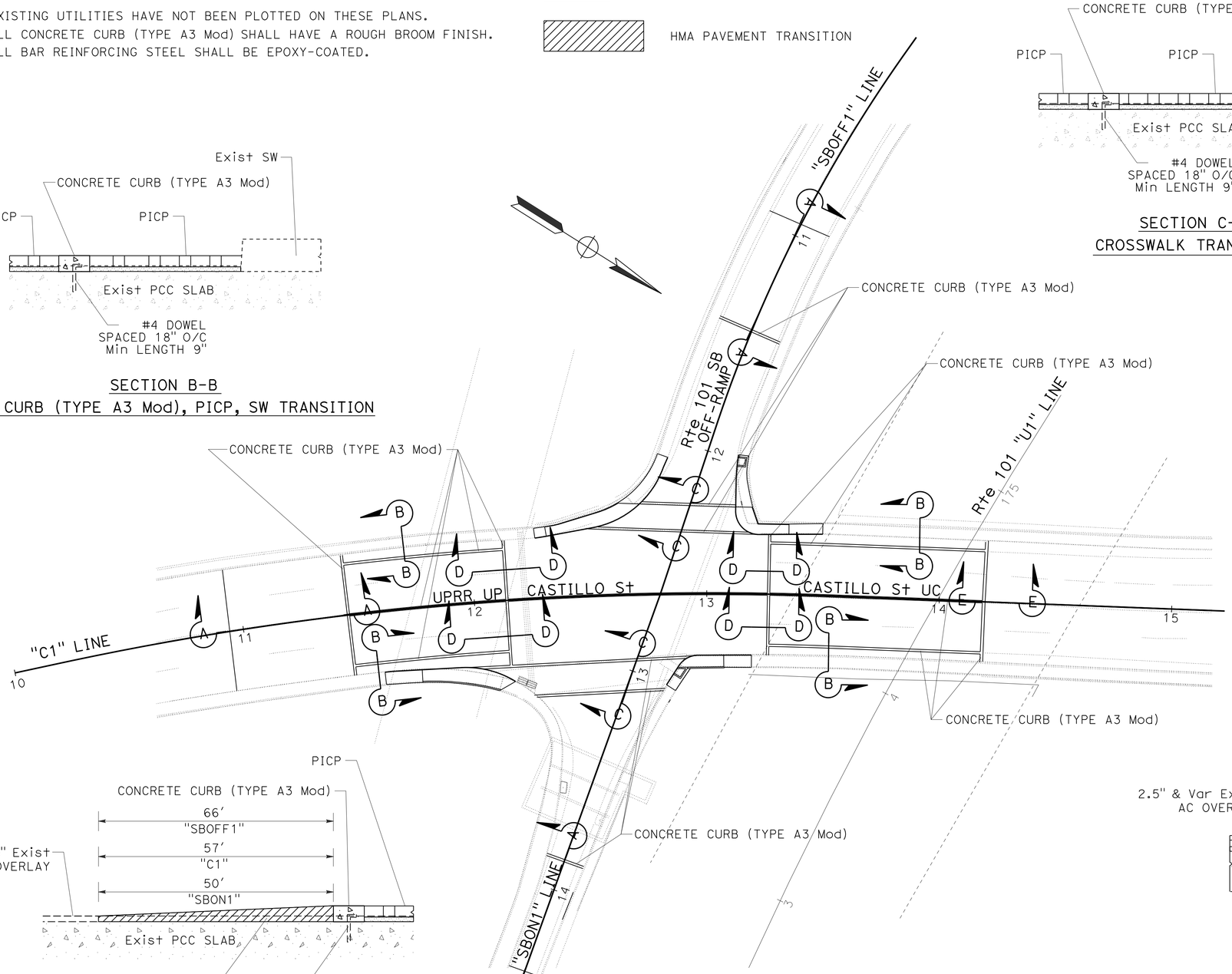
HMA PAVEMENT TRANSITION

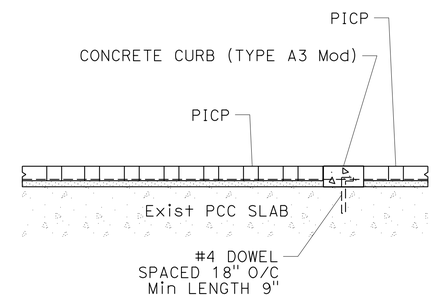


SECTION B-B
Conc CURB (TYPE A3 Mod), PICP, SW TRANSITION

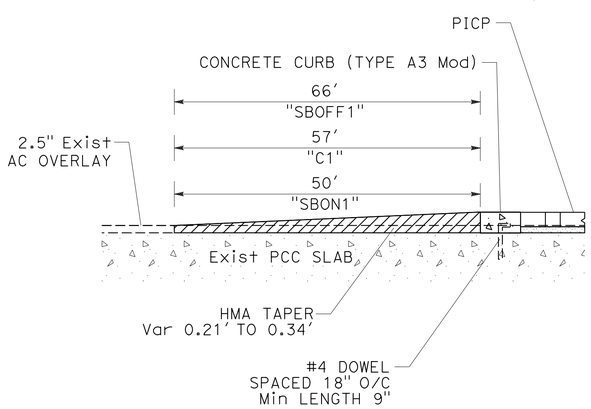


SECTION C-C
CROSSWALK TRANSITION

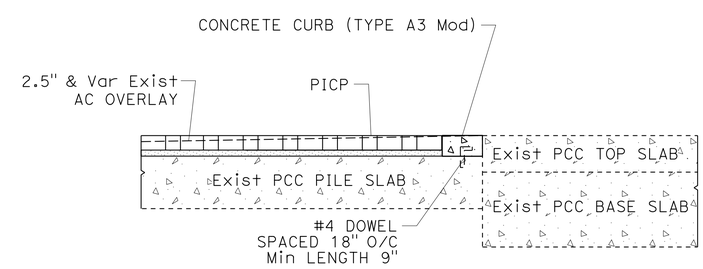




SECTION D-D
PICP, Conc CURB (TYPE A3 Mod) TRANSITION



SECTION A-A
HMA PAVEMENT TRANSITION



SECTION E-E
PICP, Conc CURB (TYPE A3 Mod),
Exist TOP SLAB TRANSITION

CONSTRUCTION DETAILS

NO SCALE

C-4

REVISED BY | DATE REVISED
CHRISTOPHER BAAB | KYLE BIRCH
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | JOHN FOUCHE
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans

LAST REVISION 01-26-15 | DATE PLOTTED => 19-FEB-2015 | TIME PLOTTED => 10:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	9	33

Kyle Birch 2-9-15
REGISTERED CIVIL ENGINEER DATE

2-9-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE BIRCH No. 74994 Exp. 12-31-15 CIVIL STATE OF CALIFORNIA

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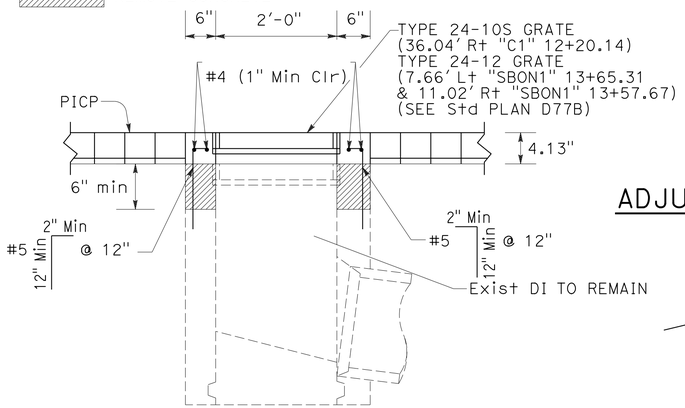
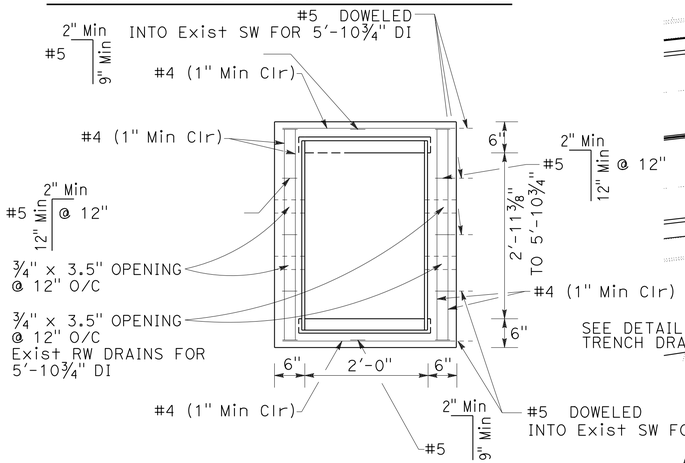
LEGEND:

REMOVE CONCRETE

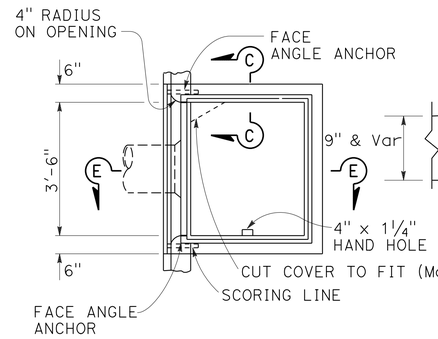


ADJUST FRAME AND GRATE TO GRADE



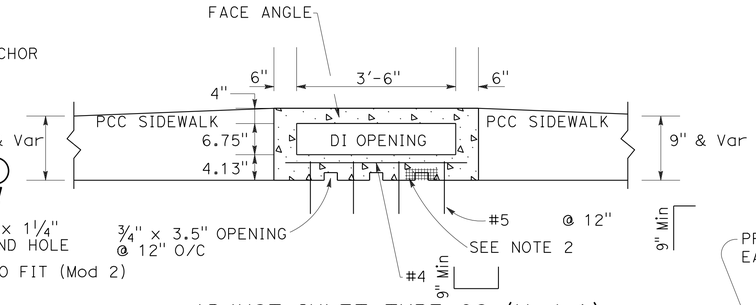
ADJUST FRAME AND GRATE TO GRADE

PLAN VIEW



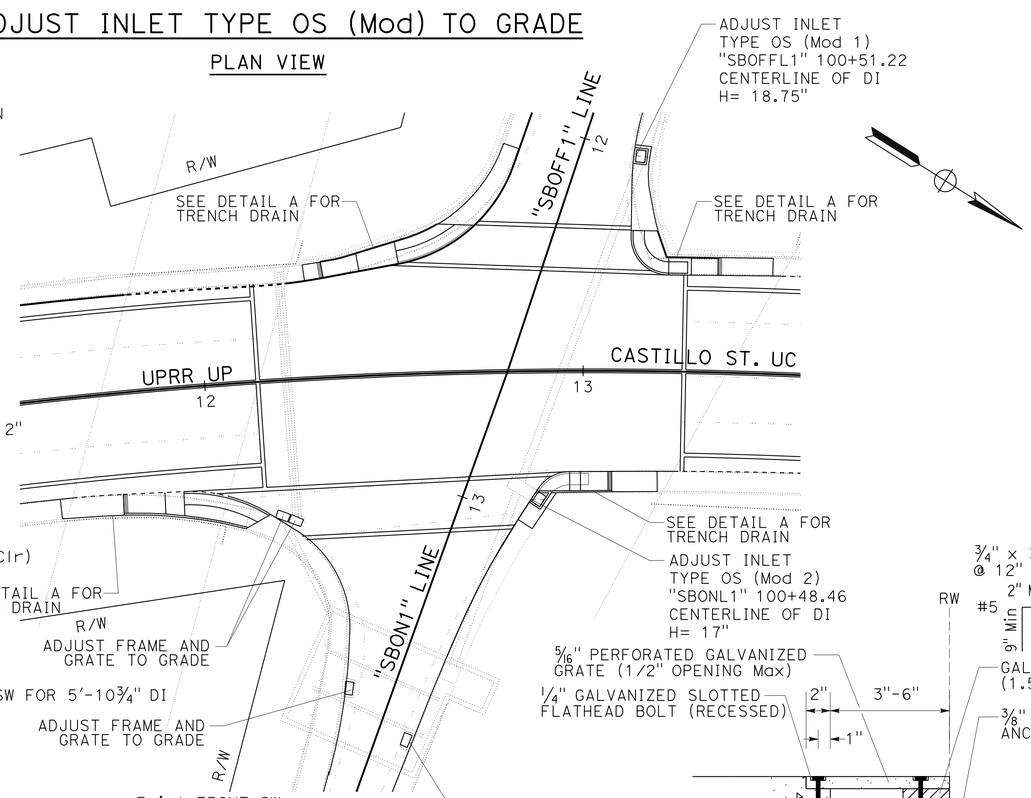
ADJUST INLET TYPE OS (Mod) TO GRADE

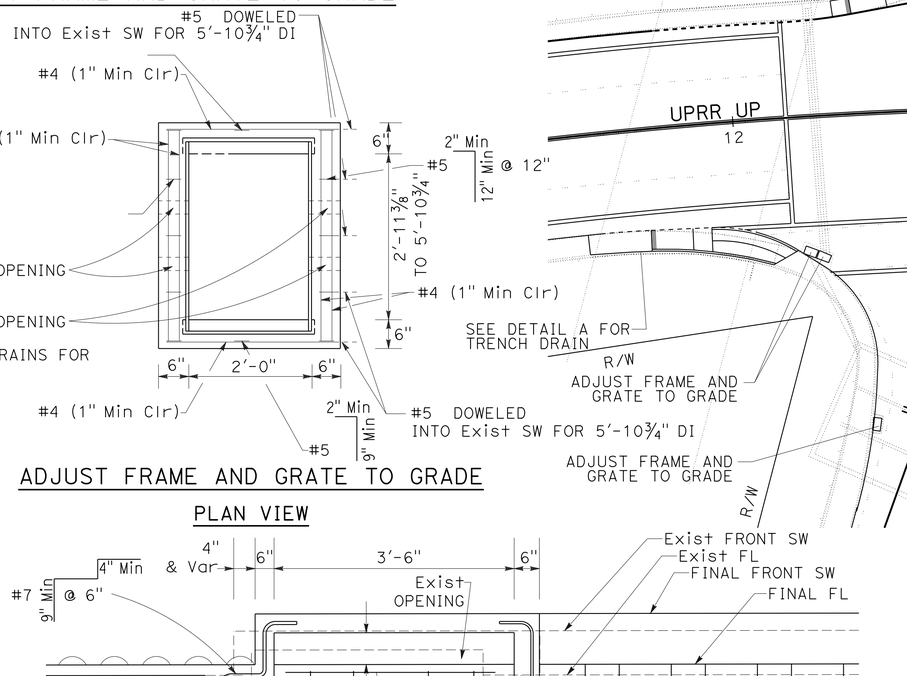
PLAN VIEW



ADJUST INLET TYPE OS (Mod 1)

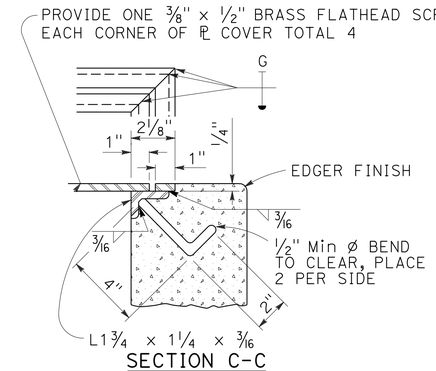
SIDE VIEW



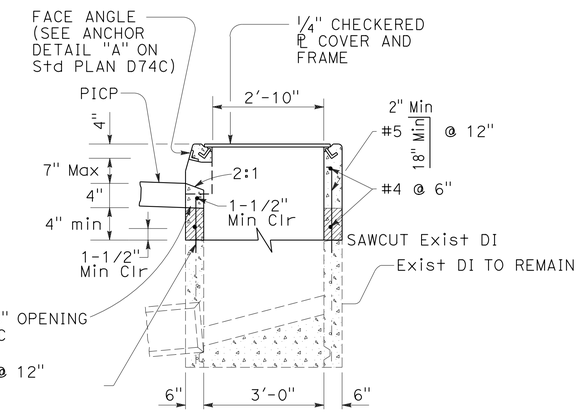


ADJUST INLET DI TYPE OS (Mod 2)

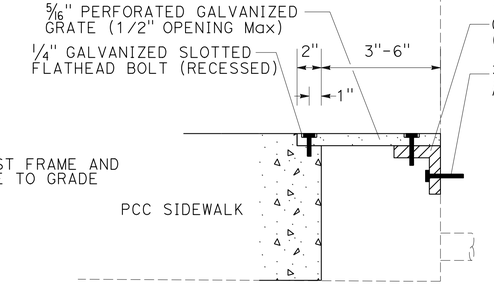
SIDE VIEW



SECTION C-C



SECTION E-E



DETAIL A
TRENCH DRAIN

CONSTRUCTION DETAILS

C-5

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans

FUNCTIONAL SUPERVISOR: JOHN FOUCHE
CALCULATED-DESIGNED BY: CHRISTOPHER BAAB
CHECKED BY: KYLE BIRCH
REVISED BY
DATE REVISED

LAST REVISION 01-26-15
DATE PLOTTED => 19-FEB-2015
TIME PLOTTED => 10:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	10	33

REGISTERED CIVIL ENGINEER Kyle Birch 2-9-15 DATE

2-9-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE BIRCH No. 74994 Exp. 12-31-15 CIVIL STATE OF CALIFORNIA

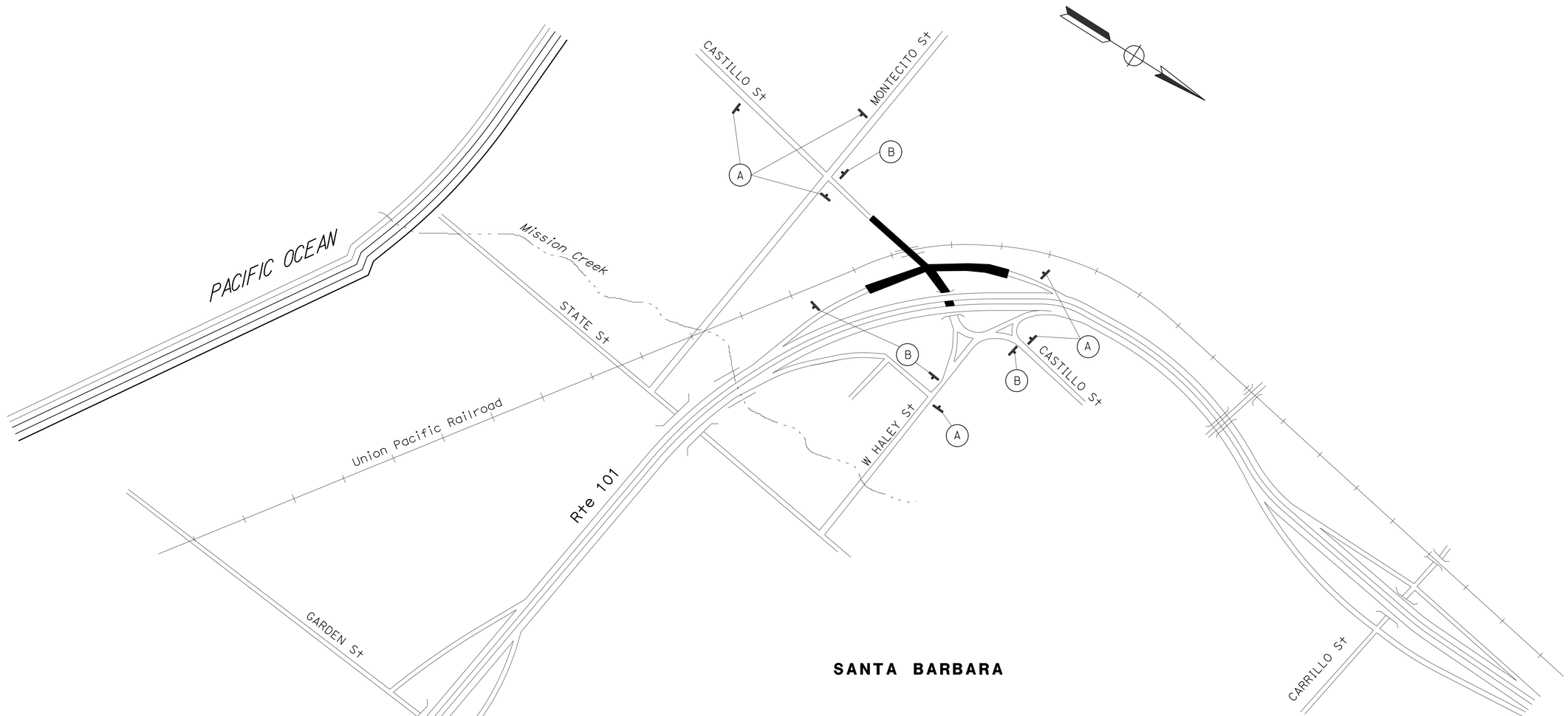
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. LOCATION OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE STAGE CONSTRUCTION PLANS AND MOTORIST INFORMATION PLANS.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE		PANEL SIZE	SIGN MESSAGE	No. OF POSTS AND SIZE	No. OF SIGNS
	FEDERAL	CALIFORNIA				
A	W20-1	C23	36" x 36"	ROAD WORK AHEAD	1 - 4" x 4"	6
B	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	4



APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: JOHN FOUCHE
CALCULATED-DESIGNED BY: GLENN ESPINO
CHECKED BY: KYLE BIRCH
REVISED BY
DATE REVISED

LAST REVISION 01-26-15
DATE PLOTTED => 19-FEB-2015
TIME PLOTTED => 10:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	11	33

Kyle Birch 2-9-15
REGISTERED CIVIL ENGINEER DATE

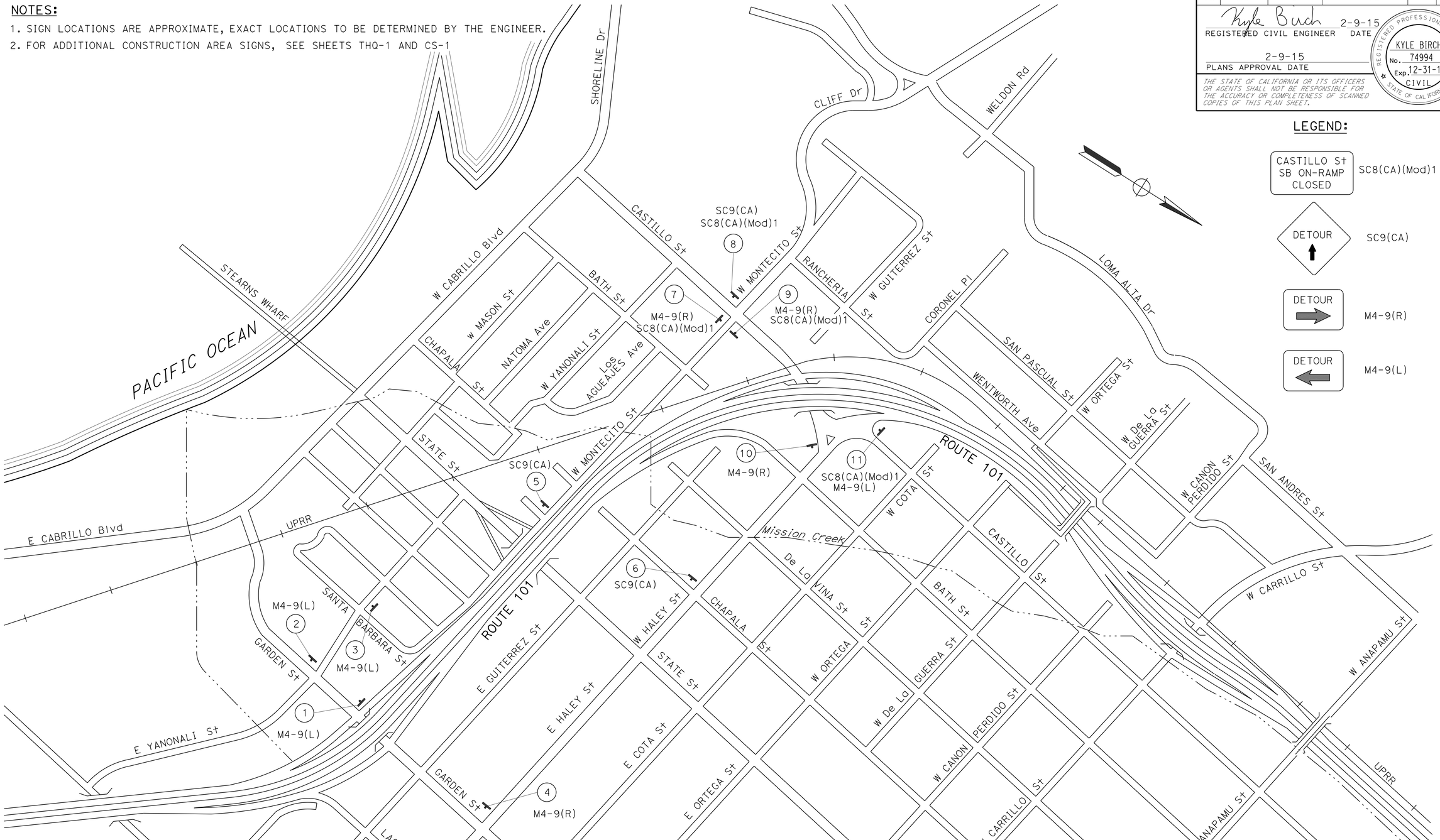
2-9-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KYLE BIRCH
No. 74994
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

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

NOTES:

1. SIGN LOCATIONS ARE APPROXIMATE, EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE SHEETS THQ-1 AND CS-1



CASTILLO St SB ON-RAMP CLOSED	SC8(CA)(Mod)1
DETOUR	SC9(CA)
DETOUR	M4-9(R)
DETOUR	M4-9(L)

LEGEND:

SANTA BARBARA

APPROVED FOR MOTORIST INFORMATION WORK ONLY

MOTORIST INFORMATION PLAN
(DETOUR AT CASTILLO St SB ON-RAMP CLOSED)

NO SCALE

MI-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: JOHN FOUCHE
CALCULATED-DESIGNED BY: GLENN ESPINO
CHECKED BY: KYLE BIRCH
REVISED BY
DATE REVISED

LAST REVISION 01-26-15
DATE PLOTTED => 19-FEB-2015
TIME PLOTTED => 10:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	12	33

Kyle Birch 2-9-15
REGISTERED CIVIL ENGINEER DATE

2-9-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KYLE BIRCH
No. 74994
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

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

SANTA BARBARA

APPROVED FOR MOTORIST INFORMATION WORK ONLY

MOTORIST INFORMATION PLAN
(DETOUR AT CASTILLO St SB OFF-RAMP CLOSED)

NO SCALE

MI-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

FUNCTIONAL SUPERVISOR: JOHN FOUCHE
CALCULATED-DESIGNED BY: GLENN ESPINO
CHECKED BY: KYLE BIRCH
REVISED BY
DATE REVISED

LAST REVISION 01-26-15
DATE PLOTTED => 19-FEB-2015
TIME PLOTTED => 10:22

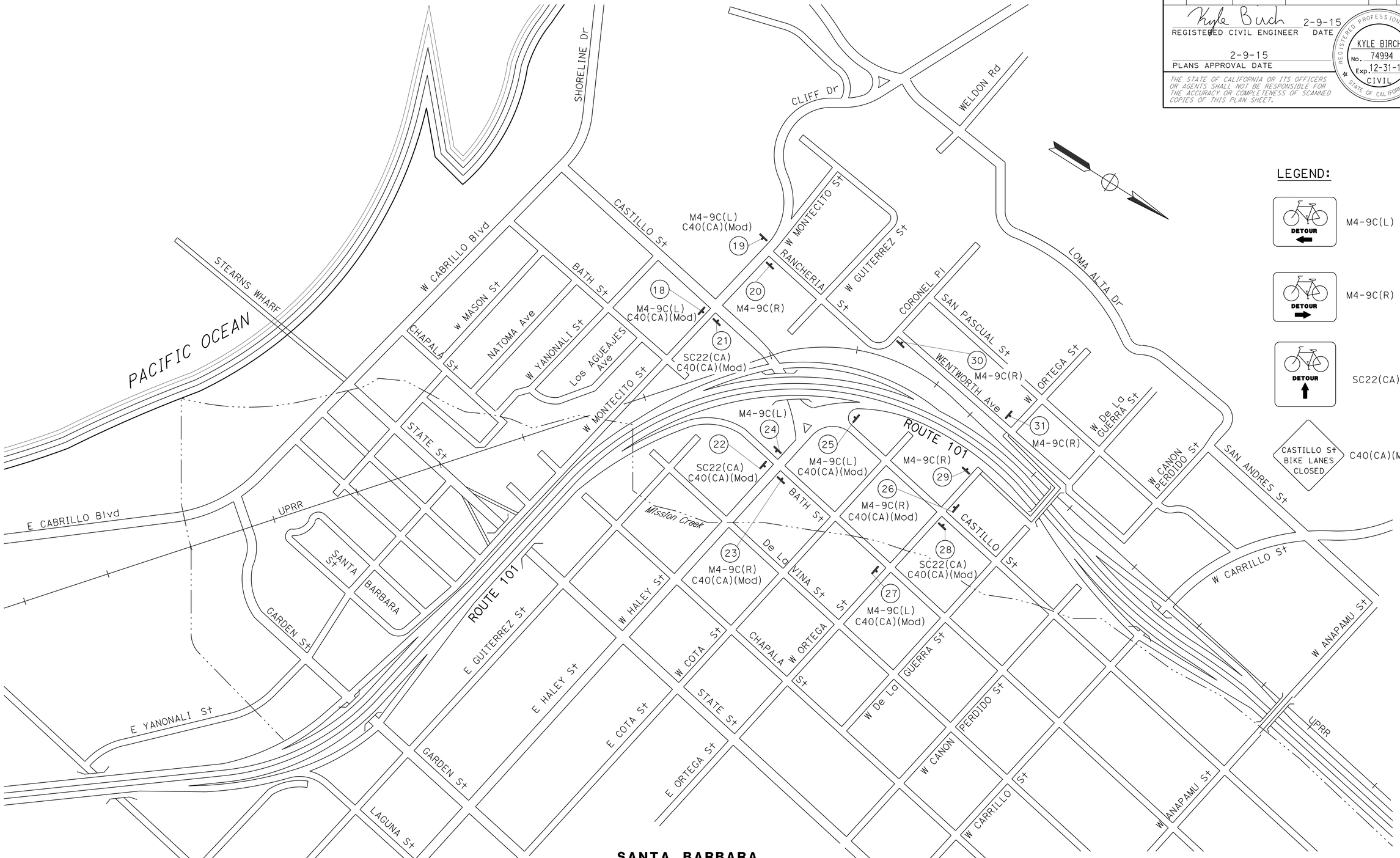
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	13	33

Kyle Birch 2-9-15
REGISTERED CIVIL ENGINEER DATE

2-9-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KYLE BIRCH
No. 74994
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

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



LEGEND:

M4-9C(L)

M4-9C(R)

SC22(CA)

CASTILLO St BIKE LANES CLOSED — C40(CA)(Mod)

SANTA BARBARA

APPROVED FOR MOTORIST INFORMATION WORK ONLY

MOTORIST INFORMATION PLAN
(BIKE DETOUR)

NO SCALE

MI-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

FUNCTIONAL SUPERVISOR: JOHN FOUCHE
CALCULATED-DESIGNED BY: GLENN ESPINO
CHECKED BY: KYLE BIRCH
REVISED BY
DATE REVISED

LAST REVISION 01-26-15
DATE PLOTTED => 19-FEB-2015
TIME PLOTTED => 10:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	14	33

REGISTERED CIVIL ENGINEER Kyle Birch 2-9-15 DATE

PLANS APPROVAL DATE 2-9-15

REGISTERED PROFESSIONAL ENGINEER KYLE BIRCH No. 74994 Exp. 12-31-15 CIVIL STATE OF CALIFORNIA

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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS (MOTORIST INFORMATION)

SHEET No.	SIGN No.	SIGN CODE	SIGN MESSAGE	PANEL SIZE	No. OF POST AND SIZE	No. OF SIGNS
MI-1	1	M4-9(L)	DETOUR W/ LEFT ARROW	48" X 36"	1 - 6" X 6"	1
	2	M4-9(L)	DETOUR W/ LEFT ARROW	48" X 36"	1 - 6" X 6"	1
	3	M4-9(L)	DETOUR W/ LEFT ARROW	48" X 36"	1 - 6" X 6"	1
	4	M4-9(R)	DETOUR W/ RIGHT ARROW	48" X 36"	1 - 6" X 6"	1
	5	SC9(CA)	DETOUR W/ UP ARROW	36" X 36"	1 - 6" X 6"	1
	6	SC9(CA)	DETOUR W/ UP ARROW	36" X 36"	1 - 6" X 6"	1
	7	SC8(CA)(Mod)1	CASTILLO St SB ON-RAMP CLOSED	84" X 42"	1 - 6" X 6"	1
		M4-9(R)	DETOUR W/ RIGHT ARROW	48" X 36"		1
	8	SC8(CA)(Mod)1	CASTILLO St SB ON-RAMP CLOSED	84" X 42"	1 - 6" X 6"	1
		SC9(CA)	DETOUR W/ UP ARROW	36" X 36"		1
	9	SC8(CA)(Mod)1	CASTILLO St SB ON-RAMP CLOSED	84" X 42"	1 - 6" X 6"	1
		M4-9(R)	DETOUR W/ RIGHT ARROW	48" X 36"		1
	10	M4-9(R)	DETOUR W/ RIGHT ARROW	48" X 36"	1 - 6" X 6"	1
	11	SC8(CA)(Mod)1	CASTILLO St SB ON-RAMP CLOSED	84" X 42"	1 - 6" X 6"	1
		M4-9(L)	DETOUR W/ LEFT ARROW	48" X 36"		1
MI-2	12	SC8(CA)(Mod)3	CASTILLO St SB ON-RAMP CLOSED	84" X 42"	1 - 6" X 6"	1
		M4-9(R)	DETOUR W/ RIGHT ARROW	48" X 36"		1
	13	SC8(CA)(Mod)3	CASTILLO St SB ON-RAMP CLOSED	84" X 42"	1 - 6" X 6"	1
		M4-9(R)	DETOUR W/ RIGHT ARROW	48" X 36"		1
	14	SC8(CA)(Mod)3	CASTILLO St SB ON-RAMP CLOSED	84" X 42"	1 - 6" X 6"	1
		M4-9(R)	DETOUR W/ RIGHT ARROW	48" X 36"		1
	15	M4-9(R)	DETOUR W/ RIGHT ARROW	48" X 36"	1 - 6" X 6"	1
	16	SC9(CA)	DETOUR W/ UP ARROW	36" X 36"		1
	17	SC8(CA)(Mod)2	CASTILLO St SB ON-RAMP CLOSED	84" X 42"	1 - 6" X 6"	1
		SC9(CA)	DETOUR W/ UP ARROW	36" X 36"		1
MI-3	18	M4-9C(L)	DETOUR W/ LEFT ARROW & BIKE SYMBOL	30" X 24"	1 - 6" X 6"	1
		C40(CA)(Mod)	CASTILLO St BIKE LANES CLOSED	108" X 42"		1
	19	M4-9C(L)	DETOUR W/ LEFT ARROW & BIKE SYMBOL	30" X 24"	1 - 6" X 6"	1
		C40(CA)(Mod)	CASTILLO St BIKE LANES CLOSED	108" X 42"		1
	20	M4-9C(R)	DETOUR W/ RIGHT ARROW & BIKE SYMBOL	30" X 24"	1 - 4" X 4"	1
	21	SC22(CA)	DETOUR W/ UP ARROW & BIKE SYMBOL	30" X 42"	1 - 6" X 6"	1
		C40(CA)(Mod)	CASTILLO St BIKE LANES CLOSED	108" X 42"		1
	22	SC22(CA)	DETOUR W/ UP ARROW & BIKE SYMBOL	30" X 42"	1 - 6" X 6"	1
		C40(CA)(Mod)	CASTILLO St BIKE LANES CLOSED	108" X 42"		1
	23	M4-9C(R)	DETOUR W/ LEFT ARROW & BIKE SYMBOL	30" X 24"	1 - 6" X 6"	1
		C40(CA)(Mod)	CASTILLO St BIKE LANES CLOSED	108" X 42"		1
	24	M4-9C(L)	DETOUR W/ LEFT ARROW & BIKE SYMBOL	30" X 24"	1 - 4" X 4"	1
	25	M4-9C(L)	DETOUR W/ LEFT ARROW & BIKE SYMBOL	30" X 24"	1 - 6" X 6"	1
		C40(CA)(Mod)	CASTILLO St BIKE LANES CLOSED	108" X 42"		1
	26	M4-9C(R)	DETOUR W/ RIGHT ARROW & BIKE SYMBOL	30" X 42"	1 - 6" X 6"	1
		C40(CA)(Mod)	CASTILLO St BIKE LANES CLOSED	108" X 42"		1
	27	M4-9C(L)	DETOUR W/ LEFT ARROW & BIKE SYMBOL	30" X 24"	1 - 6" X 6"	1
		C40(CA)(Mod)	CASTILLO St BIKE LANES CLOSED	30" X 24"		1
	28	SC22(CA)	DETOUR W/ UP ARROW & BIKE SYMBOL	30" X 42"	1 - 6" X 6"	1
		C40(CA)(Mod)	CASTILLO St BIKE LANES CLOSED	108" X 42"		1
	29	M4-9C(R)	DETOUR W/ RIGHT ARROW & BIKE SYMBOL	30" X 42"	1 - 4" X 4"	1
	30	M4-9C(R)	DETOUR W/ RIGHT ARROW & BIKE SYMBOL	30" X 42"	1 - 4" X 4"	1
	31	M4-9C(R)	DETOUR W/ RIGHT ARROW & BIKE SYMBOL	30" X 42"	1 - 4" X 4"	1
					TOTAL	48

MOTORIST INFORMATION QUANTITIES

MIQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans DESIGN

FUNCTIONAL SUPERVISOR JOHN FOUCHE

CALCULATED-DESIGNED BY GLENN ESPINO

CHECKED BY KYLE BIRCH

REVISED BY

DATE REVISED

LAST REVISION 01-26-15 | DATE PLOTTED => 19-FEB-2015 | TIME PLOTTED => 10:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	15	33

Kyle Birch 2-9-15
REGISTERED CIVIL ENGINEER DATE

2-9-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KYLE BIRCH
No. 74994
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

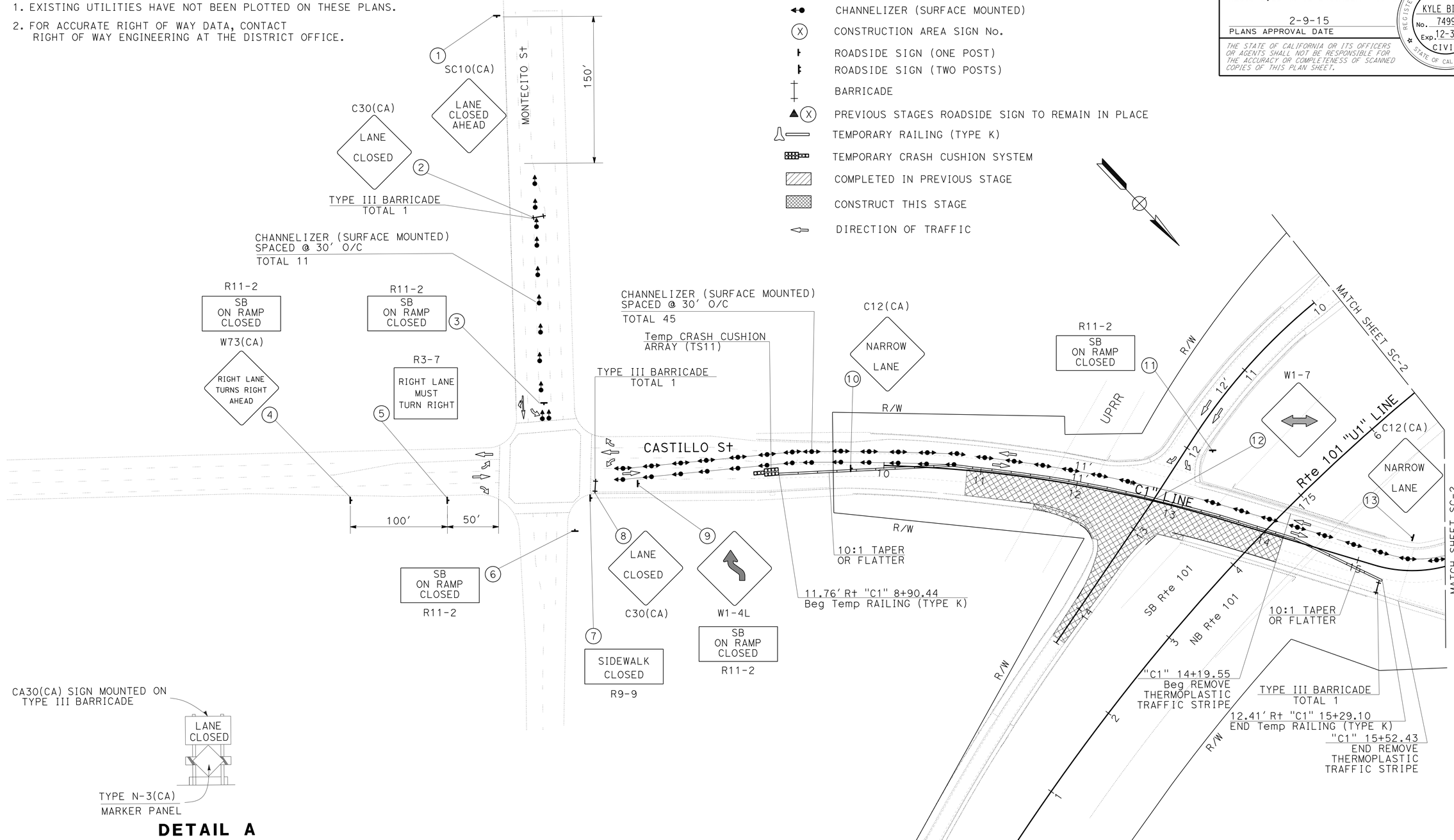
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. EXISTING UTILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGEND:

- CHANNELIZER (SURFACE MOUNTED)
- CONSTRUCTION AREA SIGN No.
- ROADSIDE SIGN (ONE POST)
- ROADSIDE SIGN (TWO POSTS)
- BARRICADE
- PREVIOUS STAGES ROADSIDE SIGN TO REMAIN IN PLACE
- TEMPORARY RAILING (TYPE K)
- TEMPORARY CRASH CUSHION SYSTEM
- COMPLETED IN PREVIOUS STAGE
- CONSTRUCT THIS STAGE
- DIRECTION OF TRAFFIC



DETAIL A
NO SCALE

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

(STAGE 1)

SCALE 1" = 50'

SC-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: JOHN FOUCHE
CALCULATED-DESIGNED BY: GLENN ESPINO
CHECKED BY: KYLE BIRCH
REVISED BY
DATE REVISED

LAST REVISION 01-26-15
DATE PLOTTED => 19-FEB-2015
TIME PLOTTED => 10:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	16	33

REGISTERED CIVIL ENGINEER Kyle Birch DATE 2-9-15

PLANS APPROVAL DATE 2-9-15

REGISTERED PROFESSIONAL ENGINEER KYLE BIRCH No. 74994 Exp. 12-31-15 CIVIL STATE OF CALIFORNIA

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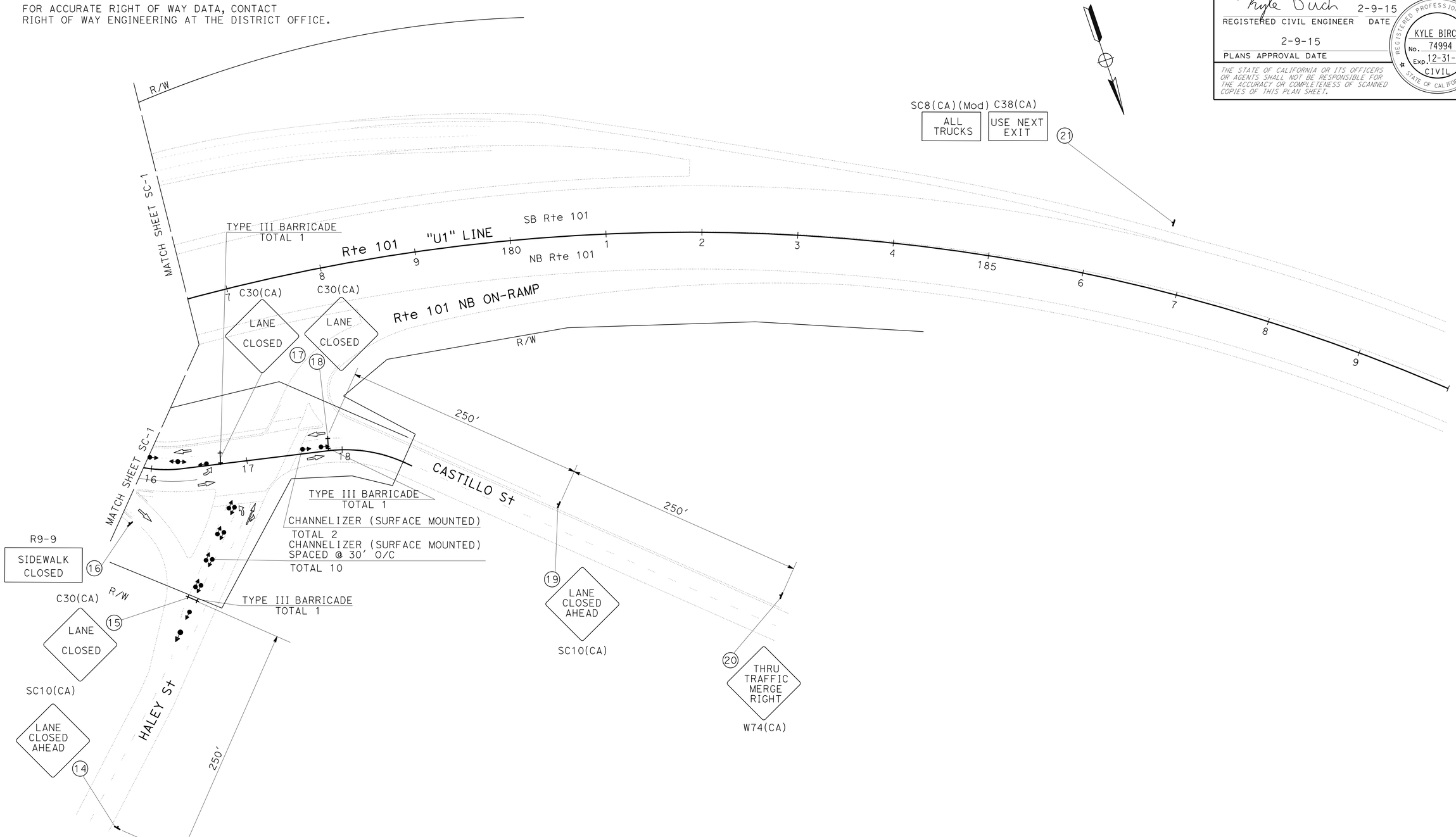
NOTE:

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



APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

(STAGE 1)

SCALE 1" = 50'

SC-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

DESIGN

FUNCTIONAL SUPERVISOR: JOHN FOUCHE

CALCULATED-DESIGNED BY: GLENN ESPINO

CHECKED BY: KYLE BIRCH

REVISED BY

DATE REVISED

LAST REVISION 01-26-15

DATE PLOTTED => 19-FEB-2015

TIME PLOTTED => 10:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	17	33

Kyle Birch 2-9-15
REGISTERED CIVIL ENGINEER DATE

2-9-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KYLE BIRCH
No. 74994
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

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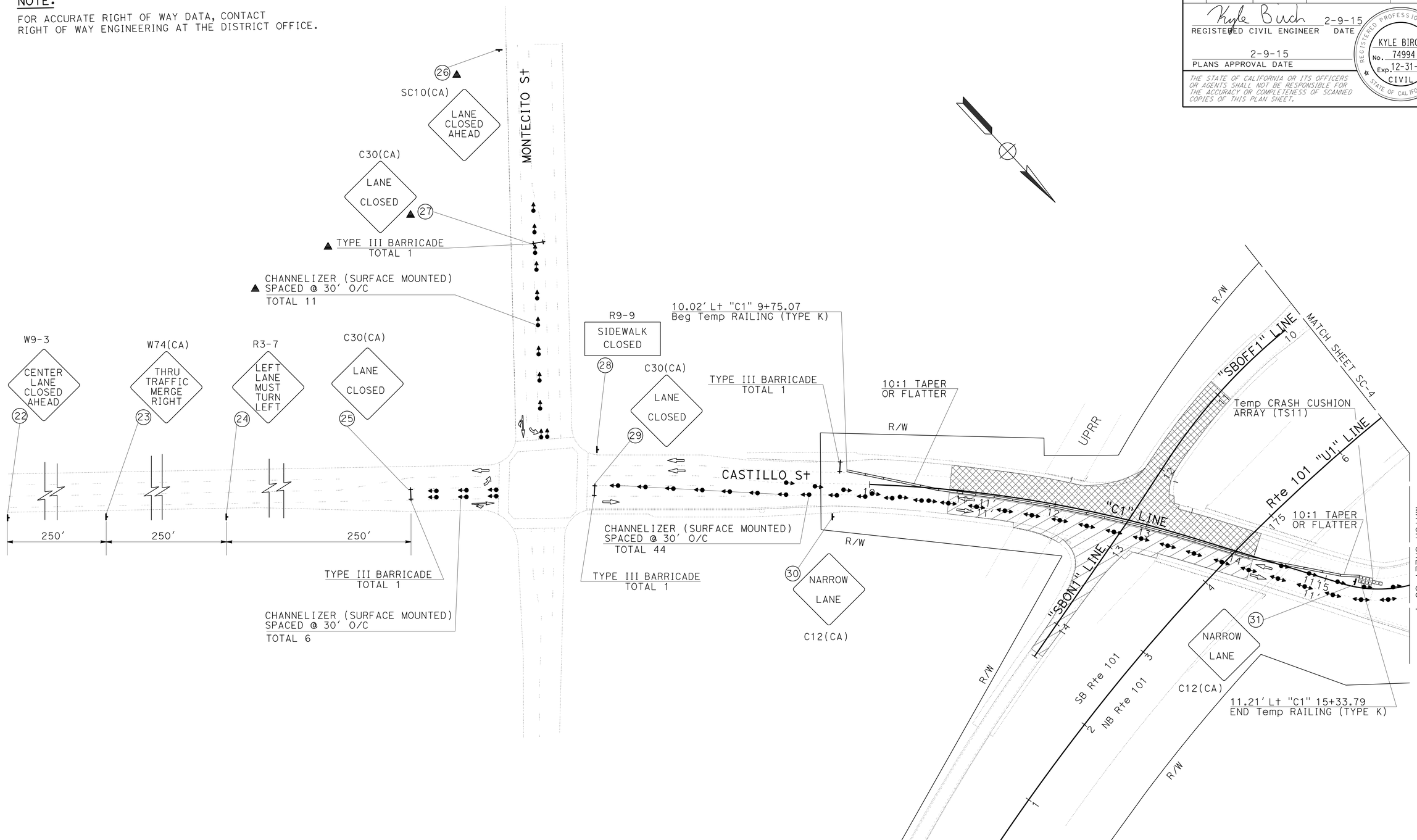
NOTE:

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



APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

(STAGE 2)

SCALE 1" = 50'

SC-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: JOHN FOUCHE
CALCULATED-DESIGNED BY: GLENN ESPINO
CHECKED BY: KYLE BIRCH
REVISED BY
DATE REVISED

LAST REVISION 01-26-15
DATE PLOTTED => 19-FEB-2015
TIME PLOTTED => 10:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	18	33

Kyle Birch 2-9-15
REGISTERED CIVIL ENGINEER DATE

2-9-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KYLE BIRCH
No. 74994
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

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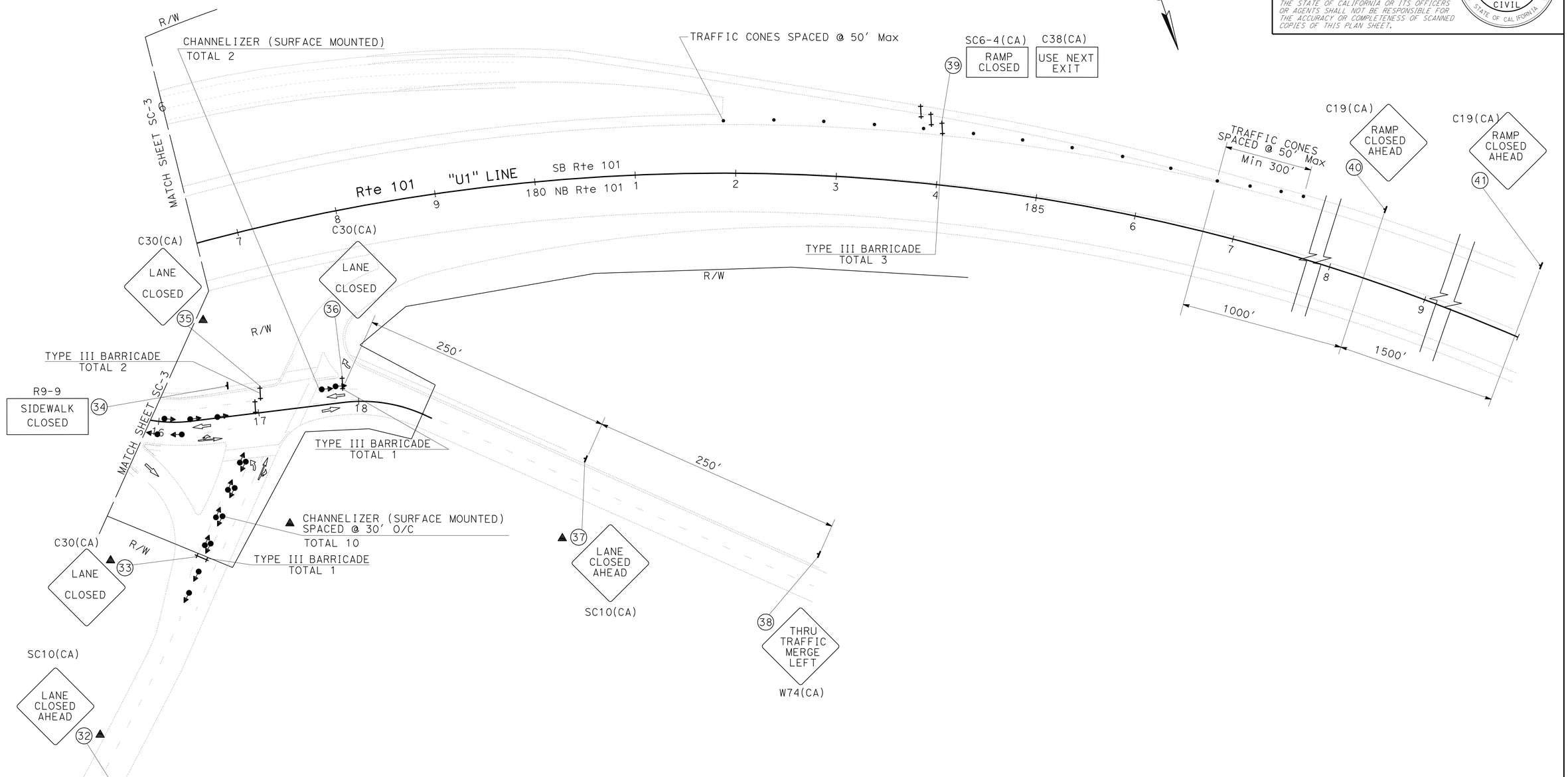
NOTE:

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



APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

(STAGE 2)

SCALE 1" = 50'

SC-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: JOHN FOUCHE
CALCULATED-DESIGNED BY: GLENN ESPINO
CHECKED BY: KYLE BIRCH
REVISED BY
DATE REVISED

LAST REVISION 01-26-15
DATE PLOTTED => 19-FEB-2015
TIME PLOTTED => 10:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	19	33

REGISTERED CIVIL ENGINEER Kyle Birch 2-9-15 DATE

PLANS APPROVAL DATE 2-9-15

REGISTERED PROFESSIONAL ENGINEER KYLE BIRCH No. 74994 Exp. 12-31-15 CIVIL STATE OF CALIFORNIA

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

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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SHEET No.	SIGN No.	SIGN CODE	SIGN MESSAGE	PANEL SIZE	No. OF POST AND SIZE	No. OF SIGNS	SIGNS FROM PREVIOUS STAGE (N)
SC-1	1	SC10(CA)	LANE CLOSED AHEAD	48" x 30"	1 - 6" X 6"	1	
	2	C30(CA)	LANE CLOSED/TYPE N-3(CA)MARKER (SEE DETAIL "A")	36" X 36"	BARRICADE MOUNTED	1	
	3	R11-2	SB ON RAMP CLOSED	36" X 36"	1 - 6" X 6"	1	
	4	R11-2	SB ON RAMP CLOSED	36" X 36"	1 - 6" X 6"	1	
		W73(CA)	RIGHT LANE TURNS RIGHT AHEAD	36" X 36"		1	
	5	R3-7	RIGHT LANE MUST TURN RIGHT	36" X 36"	1 - 6" X 6"	1	
	6	R11-2	SB ON RAMP CLOSED	36" X 36"	1 - 6" X 6"	1	
	7	R9-9	SIDEWALK CLOSED	24" X 12"	1 - 4" X 4"	1	
	8	C30(CA)	LANE CLOSED/TYPE N-3(CA)MARKER (SEE DETAIL "A")	36" X 36"	BARRICADE MOUNTED	1	
	9	R11-2	SB ON RAMP CLOSED	36" X 36"	1 - 6" X 6"	1	
		W1-4L	MERGE TO LEFT	36" X 36"		1	
	10	C12(CA)	NARROW LANE	48" X 48"	1 - 6" X 6"	1	
	11	R11-2	SB ON RAMP CLOSED	36" X 36"	1 - 6" X 6"	1	
	12	W1-7	TWO-DIRECTION LARGE ARROW	48" X 24"	1 - 6" X 6"	1	
	13	C12(CA)	NARROW LANE	48" X 48"	1 - 6" X 6"	1	
SC-2	14	SC10(CA)	LANE CLOSED AHEAD	48" x 30"	1 - 6" X 6"	1	
	15	C20(CA)	LANE CLOSED/TYPE N-3(CA)MARKER (SEE DETAIL "A")	36" X 36"	BARRICADE MOUNTED	1	
	16	R9-9	SIDEWALK CLOSED	24" X 12"	1 - 4" X 4"	1	
	17	C30(CA)	LANE CLOSED/TYPE N-3(CA)MARKER (SEE DETAIL "A")	36" X 36"	BARRICADE MOUNTED	1	
	18	C30(CA)	LANE CLOSED/TYPE N-3(CA)MARKER (SEE DETAIL "A")	36" X 36"	BARRICADE MOUNTED	1	
	19	SC10(CA)	LANE CLOSED AHEAD	48" x 30"	1 - 6" X 6"	1	
	20	W74(CA)	THRU TRAFFIC MERGE RIGHT	36" X 36"	1 - 6" X 6"	1	
	21	SC8(CA)(Mod)	ALL TRUCKS	48" x 30"	1 - 6" X 6"	1	
		C38(CA)	USE NEXT EXIT	36" X 36"	1 - 6" X 6"	1	
SC-3	22	W9-3	CENTER LANE CLOSED AHEAD	36" X 36"	1 - 6" X 6"		
	23	W74(CA)	THRU TRAFFIC MERGE RIGHT	36" X 36"	1 - 6" X 6"	1	
	24	R3-7	LEFT LANE MUST TURN LEFT	36" X 36"	1 - 6" X 6"	1	
	25	C30(CA)	LANE CLOSED/TYPE N-3(CA)MARKER (SEE DETAIL "A")	36" X 36"	BARRICADE MOUNTED	1	
	26	SC10(CA)	LANE CLOSED AHEAD	48" x 30"	1 - 6" X 6"	1	1
	27	C30(CA)	LANE CLOSED/TYPE N-3(CA)MARKER (SEE DETAIL "A")	36" X 36"	BARRICADE MOUNTED	1	1
	28	R9-9	SIDEWALK CLOSED	24" X 12"	1 - 6" X 6"	1	
	29	C30(CA)	LANE CLOSED/TYPE N-3(CA)MARKER (SEE DETAIL "A")	36" X 36"	BARRICADE MOUNTED	1	
	30	C12(CA)	NARROW LANE	48" X 48"	1 - 6" X 6"	1	
	31	C12(CA)	NARROW LANE	48" X 48"	1 - 6" X 6"	1	
SC-4	32	SC10(CA)	LANE CLOSED AHEAD	48" x 30"	1 - 6" X 6"	1	1
	33	C30(CA)	LANE CLOSED/TYPE N-3(CA)MARKER (SEE DETAIL "A")	36" X 36"	BARRICADE MOUNTED	1	1
	34	R9-9	SIDEWALK CLOSED	24" X 12"	1 - 6" X 6"	1	
	35	C30(CA)	LANE CLOSED/TYPE N-3(CA)MARKER (SEE DETAIL "A")	36" X 36"	BARRICADE MOUNTED	1	1
	36	C30(CA)	LANE CLOSED/TYPE N-3(CA)MARKER (SEE DETAIL "A")	36" X 36"	BARRICADE MOUNTED	1	
	37	SC10(CA)	LANE CLOSED AHEAD	48" x 30"	1 - 6" X 6"	1	1
	38	W74(CA)	THRU TRAFFIC MERGE LEFT	36" X 36"	1 - 6" X 6"	1	
	39	SC6-4(CA)	RAMP CLOSED	48" X 60"	2 - 4" X 6"	1	
	40	C38(CA)	USE NEXT EXIT	48" X 36"	2 - 4" X 6"	1	
	41	C19(CA)	RAMP CLOSED AHEAD	48" X 48"	1 - 6" X 6"	1	
					TOTAL	41	

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

TEMPORARY CRASH CUSHION

SHEET No.	TEMPORARY CRASH CUSHION MODULE
	TYPE "TS11"
	EA
SC-1	11
SC-3	11
TOTAL	22

TYPE III BARRICADES

LOCATION	SHEET	TYPE III BARRICADE
		EA
STAGE 1	SC-1	3
STAGE 1	SC-2	3
STAGE 2	SC-3	4
STAGE 2	SC-4	7
TOTAL		17

TEMPORARY RAILING (TYPE K)

SHEET No.	STAGE	STATION LIMITS	* TEMPORARY RAILING (TYPE K)
			LF
SC-1	1	"C1" 8+90.44 TO 15+29.10	640
SC-3	2	"C1" 9+75.07 TO 15+33.79	560
		TOTAL	1,200

* EXACT LOCATION OF TEMPORARY RAILING (TYPE K) TO BE DETERMINED BY THE ENGINEER

CHANNELIZER (SURFACE MOUNTED)

SHEET No.	CHANNELIZER (SURFACE MOUNTED)
	EA
SC-1	56
SC-2	12
SC-3	61
SC-4	12
TOTAL	141

PAVEMENT DELINEATION

SHEET No.	STAGE	STATION LIMITS	REMOVE THERMOPLASTIC TRAFFIC STRIPE
			LF
SC-1	1	"C1" 14+19.55 TO 15+52.43	665
		TOTAL	665

TRAFFIC HANDLING QUANTITIES

THQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans DESIGN

FUNCTIONAL SUPERVISOR JOHN FOUCHE

CALCULATED-DESIGNED BY GLENN ESPINO CHECKED BY KYLE BIRCH

REVISED BY DATE REVISED

LAST REVISION 01-26-15 DATE PLOTTED => 19-FEB-2015 TIME PLOTTED => 10:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	20	33

Kyle Birch 2-9-15
REGISTERED CIVIL ENGINEER DATE

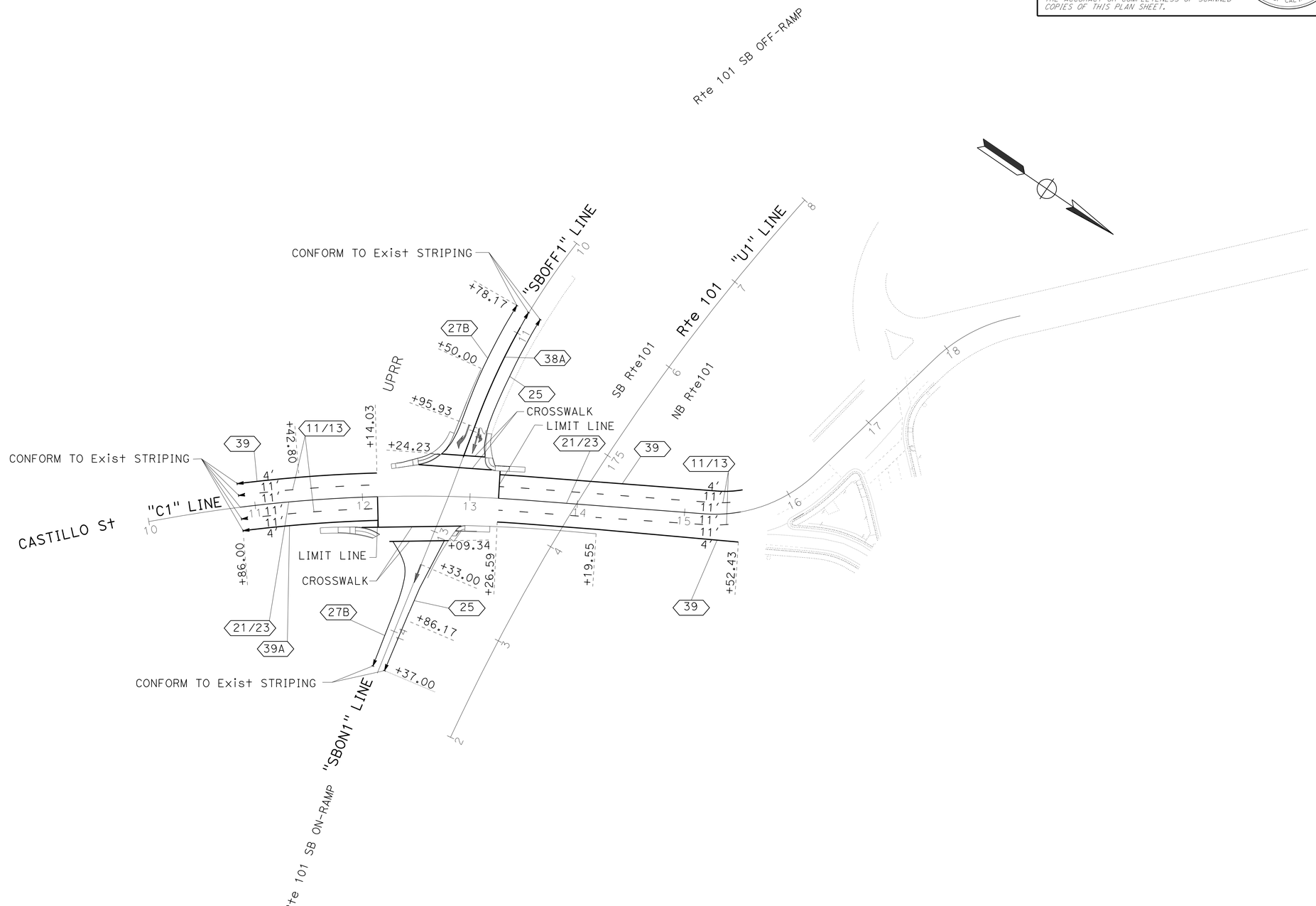
2-9-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KYLE BIRCH
No. 74994
Exp. 12-31-15
CIVIL
STATE OF CALIFORNIA

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

LEGEND:

- TYPE III(R) ARROW
- TYPE II(L) ARROW
- TYPE I ARROW



APPROVED FOR PAVEMENT DELINEATON WORK ONLY

PAVEMENT DELINEATON PLAN

SCALE 1" = 50'

PD-1

REVISED BY	DATE REVISED
GLENN ESPINO	
KYLE BIRCH	

CALCULATED-DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR
JOHN FOUCHE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

LAST REVISION 01-26-15
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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Kyle Birch 2-9-15
REGISTERED CIVIL ENGINEER DATE

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REGISTERED PROFESSIONAL ENGINEER
KYLE BIRCH
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STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

LOCATION/STATION	DIRECTION	DETAIL No.	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)	4" THERMOPLASTIC TRAFFIC STRIPE		6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 8-4)	6" THERMOPLASTIC TRAFFIC STRIPE	8" THERMOPLASTIC TRAFFIC STRIPE	4" TWO-COMPONENT PAINT TRAFFIC STRIPE			8" TWO-COMPONENT PAINT TRAFFIC STRIPE	PAVEMENT MARKER (RETROREFLECTIVE)			PAVEMENT MARKER (NON-REFLECTIVE)		THERMOPLASTIC PAVEMENT MARKING	PAINT PAVEMENT MARKING (2-COAT)	DESCRIPTION/ COMMENTS
			WHITE	WHITE	YELLOW	WHITE	WHITE	WHITE	WHITE (BROKEN 36-12)	WHITE	YELLOW	WHITE	TYPE D	TYPE G	TYPE H	TYPE A	TYPE AY			
			LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	SQFT	SQFT	
"C1" 10+86.00 TO 11+42.80	NB	11	57																	
"C1" 11+42.80 TO 12+14.03	NB	11							72											
"C1" 10+86.00 TO 12+14.03	NB	13												3		12				
"C1" 10+86.00 TO 12+14.03	NB/SB	21			129															
"C1" 10+86.00 TO 12+14.03	NB/SB	23											12				60			
"C1" 10+86.00 TO 12+14.03	NB	39A				126														BIKE LANE
"C1" 10+86.00 TO 11+42.80	SB	11	57																	
"C1" 11+42.80 TO 12+14.03	SB	11							72											
"C1" 10+86.00 TO 12+14.03	SB	13												3		12				
"C1" 10+86.00 TO 12+14.03	SB	39					131													BIKE LANE
"C1" 12+14.03																		29		LIMIT LINE
"C1" 13+26.59 TO 14+19.55	NB	11							93											
"C1" 14+19.55 TO 15+52.43	NB	11	133																	
"C1" 13+26.59 TO 15+52.43	NB	13												5		20				
"C1" 13+26.59 TO 15+52.43	NB/SB	21			226															
"C1" 13+26.59 TO 15+52.43	NB/SB	23											20				100			
"C1" 13+26.59 TO 15+52.43	NB	39					226													BIKE LANE
"C1" 13+26.59	SB																	26		LIMIT LINE
"C1" 13+26.59 TO 14+19.55	SB	11							93											
"C1" 14+19.55 TO 15+52.43	SB	11	133																	
"C1" 13+26.59 TO 15+52.43	SB	13												5		20				
"C1" 13+26.59 TO 15+52.43	SB	39					226													BIKE LANE
"SBOFF1" 10+78.17 TO 11+50.00	SB	25			66										2					
"SBOFF1" 11+50.00 TO 12+24.23	SB	25									80				2					
"SBOFF1" 10+78.17 TO 11+50.00	SB	27B		66																
"SBOFF1" 11+50.00 TO 12+24.23	SB	27B								80										
"SBOFF1" 10+78.17 TO 11+50.00	SB	38A						66												
"SBOFF1" 11+50.00 TO 12+24.23	SB	38A										80								
"SBOFF1" 11+95.93	SB																		42	TYPE III (R) ARROW
"SBOFF1" 11+95.93	SB																		45	TYPE II (L) ARROW
"SBOFF1" 12+24.23	SB																	136		CROSSWALK
"SBON1" 12+94.84	SB																	184		CROSSWALK
"SBON1" 13+09.34 TO 13+86.17	SB	25									77				2					
"SBON1" 13+33.00	SB																		25	TYPE I 18' ARROW
"SBON1" 13+86.17 TO 14+37.00	SB	25			50										2					
"SBON1" 13+09.34 TO 13+86.17	SB	27B								73										
"SBON1" 13+86.17 TO 14+37.00	SB	27B		50																
SUBTOTAL				116	471				330	153	157		32	16	8	64	160			
TOTAL			380	587		126	583	66	640			80	56			224		375	112	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

FUNCTIONAL SUPERVISOR: JOHN FOUCHE
CALCULATED-DESIGNED BY: GLENN ESPINO
CHECKED BY: KYLE BIRCH
REVISED BY
DATE REVISED

PAVEMENT DELINEATION QUANTITIES
PDQ-1

LAST REVISION 01-26-15
DATE PLOTTED => 19-FEB-2015
TIME PLOTTED => 10:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	22	33

Kyle Birch 2-9-15
REGISTERED CIVIL ENGINEER DATE

2-9-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE BIRCH No. 74994 Exp. 12-31-15 CIVIL STATE OF CALIFORNIA

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PAVEMENT STRUCTURE

SHEET No.	STATION/LOCATION	MINOR HOT MIX ASPHALT	HMA-OPEN GRADED (OPEN GRADED FRICTION COURSE)	PERMEABLE INTERLOCKING CONCRETE PAVEMENT	AGGREGATE BEDDING (N)	COLD PLANE ASPHALT CONCRETE PAVEMENT	CONCRETE CURB (TYPE A3 Mod)	BAR REINFORCING STEEL (EPOXY COATED)
		TON	TON	SQFT	CY	SQYD	CY	LB
L-1	"C1" 10+85.80 TO 11+42.80	68						
L-1	"SBOFF1" 10+78.17 TO 11+43.97		51					
L-1	"SBON1" 13+41.38 TO 13+92.22	16						
L-1	"C1" 11+42.81 TO 14+19.46			14,957	67			
L-1	"SBOFF1" 11+43.97 TO 12+24.75			2,429	13			
L-1	"SBOFF1" 12+24.75 TO 12+35.71 CROSSWALK			525	3			
L-1	"SBON1" 12+95.42 TO 13+08.80 CROSSWALK			857	2			
L-1	"SBON1" 13+08.80 TO 13+87.17			1,877	8			
	STORE AT SANTA BARBARA MAINTENANCE YARD			210				
	STORE AT SANTA BARBARA MAINTENANCE YARD (CROSSWALK PAVERS)			105				
L-1	"C1" 10+85.86 TO 14+19.46					1,935		
L-1	"SBOFF1" 10+94.98 TO 12+38.93					519		
L-1	"SBON1" 12+65.47 TO 13+92.22					351		
L-1	"C1" 11+42.80 TO "C1" 14+19.56						3.50	602
L-1	25.76′ Lt "C1" 11+42.80 TO 26.27′ Rt "C1" 11+42.80						0.66	119
L-1	22.00′ Lt "C1" 11+43.80 TO 22.00′ Lt "C1" 12+13.53						0.90	160
L-1	27.46′ Rt "C1" 11+92.18 TO 26.63′ Rt "C1" 12+95.35						1.29	225
L-1	22.00′ Rt "C1" 11+43.80 TO 22.00′ Rt "C1" 12+13.53						0.87	154
L-1	25.83′ Lt "C1" 12+14.53 TO 27.95′ Rt "C1" 12+14.02						0.69	122
L-1	8.58′ Lt "SBON1" 13+87.17 TO 8.05′ Rt "SBON1" 13+87.17						0.21	42
L-1	28.85′ Lt "C1" 12+50.03 TO 25.45′ Lt "C1" 13+22.19						0.93	165
L-1	15.44′ Lt "SBON1" 13+03.40 TO 34.94′ Rt "SBON1" 13+24.55						0.72	128
L-1	19.20′ Lt "SBOFF1" 12+19.06 TO 20.42′ Rt "SBOFF1" 12+30.81						0.53	95
L-1	13.17′ Lt "SBOFF1" 11+43.97 TO 14.87′ Rt "SBOFF1" 11+43.97						0.36	67
L-1	25.48′ Lt "C1" 13+26.11 TO 26.30′ Rt "C1" 13+26.07						0.66	118
L-1	22.00′ Rt "C1" 13+27.09 TO 22.00′ Rt "C1" 14+18.48						1.16	203
L-1	22.00′ Lt "C1" 13+27.07 TO 22.00′ Lt "C1" 14+18.91						1.18	206
L-1	25.72′ Lt "C1" 14+19.97 TO 26.14′ Rt "C1" 14+19.47						0.66	118
	TOTAL	84	51	20,960		2,805	14.95	2,591

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TEMPORARY WATER POLLUTION CONTROL QUANTITIES

SHEET No.	STATION	TEMPORARY DRAINAGE INLET PROTECTION *
		EA
L-1	"C1" 10+85.86 TO 14+19.46	5
	TOTAL	5

* TEMPORARY DRAINAGE INLET PROTECTION TYPE 6B SHALL NOT BE ALLOWED.

ABBREVIATIONS:

CR - CURB RAMP

SIDEWALKS AND CURB RAMPS

SHEET No.	STATION/LOCATION	REMOVE CONCRETE SW (SQYD)	REMOVE CONCRETE CURB (LF)	MINOR CONCRETE (Misc CONSTRUCTION)				DETECTABLE WARNING SURFACE	TRENCH DRAIN
				CURB	SW	CR	SW OPENING		
		SQYD	LF	CY	CY	CY	CY	SQFT	LF
C-1	"SBONR1" 100+21.00 TO "SBONR1" 100+77.79	30.5			2.5	4.8		53	
C-1	"SBONL1" 100+42.17 TO "SBONL1" 100+84.76	21.9			3.0	2.7		22	
C-2	"SBOFFR1" 100+85.50 TO "SBOFFR1" 101+57.30	31.9			4.3	5.7		48	
C-2	"SBOFFL1" 100+57.34 TO "SBOFFL1" 101+15.90	31.1			5.1	4.0		43	
C-1	5.53′ Rt "SBONR1" +37.58 TO 6.50′ Rt "SBONR1" +73.52		32.4	0.8					
C-1	"SBONL1" 100+51.24 TO 5.05′ Rt "SBONL1" +71.74		19.8	0.5					
C-2	"SBOFFR1" 4.18′ Lt +90.50 TO "SBOFFR1" 6.13′ Lt +26.33		32.4	0.4					
C-2	"SBOFFL1" 6.59′ Lt +71.05 TO "SBOFFL1" 4.07′ Lt +01.55		20.7	0.3					
C-3	25.87′ Lt "C1" 14+21.37 (SIDEWALK OPENINGS)	1.5					0.6		
C-3	25.49′ Lt "C1" 14+64.45 (SIDEWALK OPENINGS)	1.5					0.6		
L-1	31.63′ Rt "C1" 11+58.85 TO 39.73′ Rt "C1" 12+11.76								52.5
L-1	30.09′ Lt "C1" 12+27.37 TO 19.83′ Rt "SBOFF1" 12+07.98								65.8
L-1	20.15′ Lt "SBON1" 13+01.66 TO 31.72′ Rt "C1" 13+20.00								38.1
L-1	17.37′ Lt "SBOFF1" 11+96.47 TO 30.54′ Lt "C1" 13+49.10								58.0
	SUBTOTAL			2.0	14.9	17.2	1.2		
	TOTAL	118.4	105.3	35.3				166	214.4

ADJUST INLETS

SHEET No.	STATION/LOCATION	ADJUST FRAME AND GRATE TO GRADE	ADJUST INLET	MINOR CONCRETE (MINOR STRUCTURE) (N)	MISCELLANEOUS IRON & STEEL	DRAINAGE INLET MARKER **
		EA	EA	CY	LB	EA
L-1	36.39′ Rt "C1" 12+20.45	1		0.11	478	1
L-1	7.66′ Lt "SBON1" 13+65.31	1		0.08	239	1
L-1	11.02′ Rt "SBON1" 13+57.67	1		0.08	239	1
L-1	15.34′ Lt "SBOFF1" 11+99.94		1	0.34	174	1
L-1	19.18′ Lt "SBON1" 12+93.61		1	0.34	174	1
	TOTAL	3	2		1,304	5

** DRAINAGE INLET MARKER TYPE SHALL BE METAL MEDALLION
(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans
FUNCTIONAL SUPERVISOR: JOHN FOUCHE
CALCULATED-DESIGNED BY: CHRISTOPHER BAAB
CHECKED BY: KYLE BIRCH
REVISED BY
DATE REVISED

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M

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

N

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

O

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

P

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

P continued

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

Q

Qty	QUANTITY

R

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

S

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

T

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

T continued

TS	TRANSVERSE,
	TRAFFIC SIGNAL,
	TUBULAR STEEL
Typ	TYPICAL

U

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

V

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

W

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

X

X Sec	CROSS SECTION
Xing	CROSSING

Y

Yr	YEAR
Yrs	YEARS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	23	33

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 2-9-15

UNIT OF MEASUREMENT SYMBOLS:

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

TABLE A

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

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

TABLE B

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

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ABBREVIATIONS (SHEET 2 OF 2)

NO SCALE

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

REVISED STANDARD PLAN RSP A10B

2010 REVISED STANDARD PLAN RSP A10B

6-7-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	24	33

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

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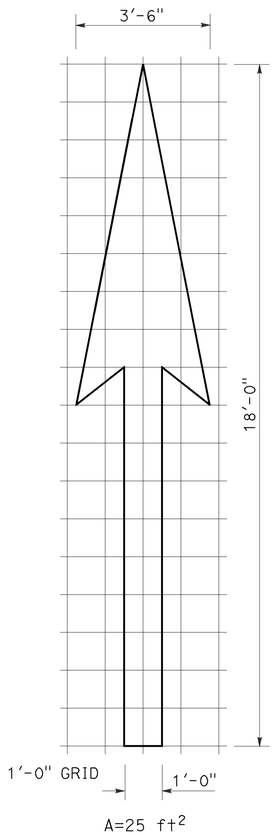
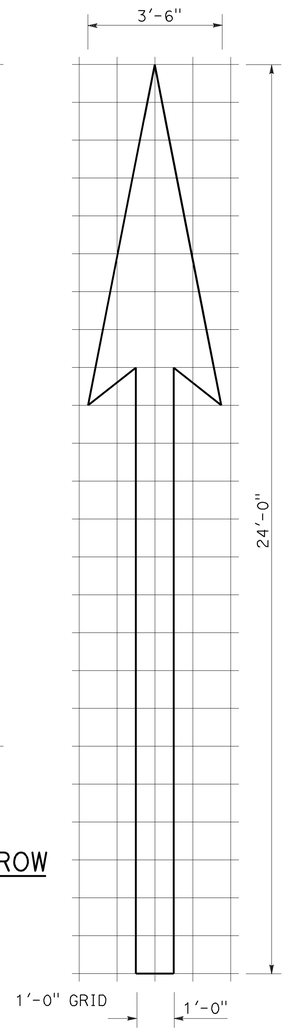
TO ACCOMPANY PLANS DATED 2-9-15



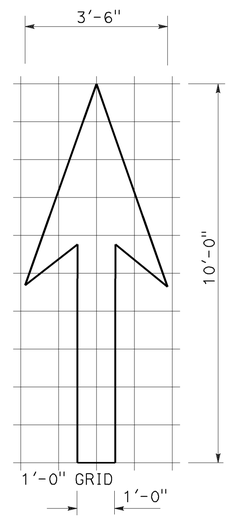
A=25 ft^2

TYPE I 18'-0" ARROW



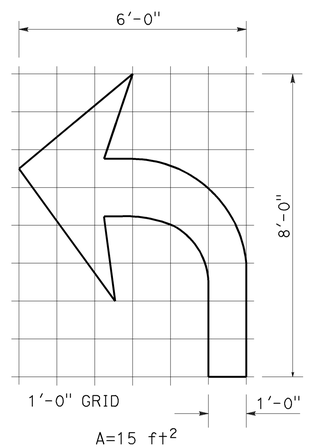
A=31 ft^2

TYPE I 24'-0" ARROW



A=14 ft^2

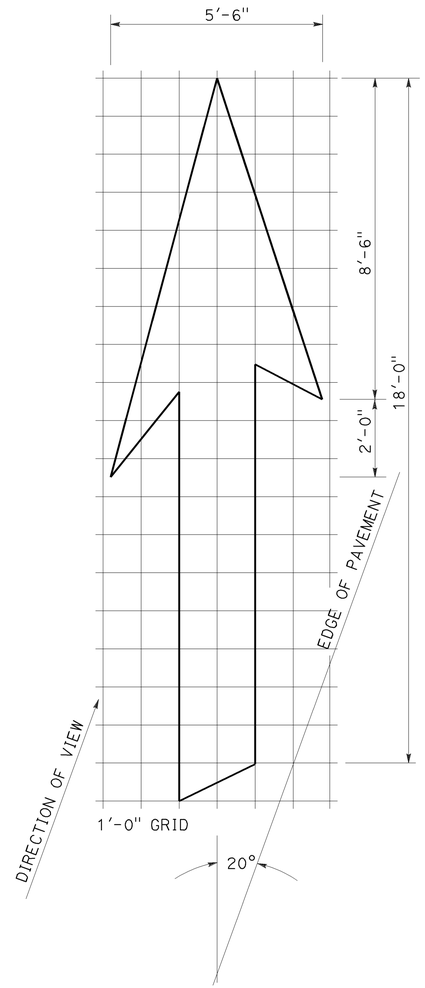
TYPE I 10'-0" ARROW



A=15 ft^2

TYPE IV (L) ARROW

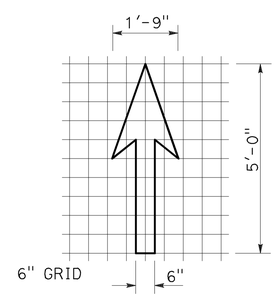
(For Type IV (R) arrow, use mirror image)



A=42 ft^2

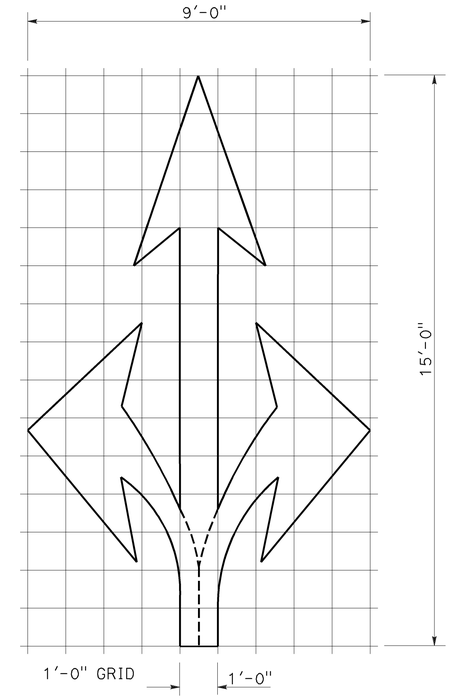
TYPE VI ARROW

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



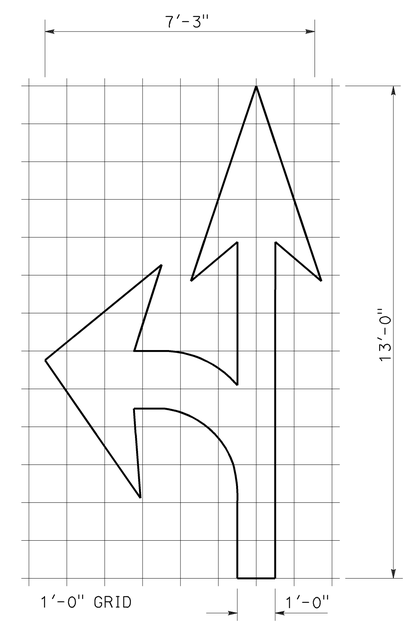
A=3.5 ft^2

BIKE LANE ARROW



A=36 ft^2

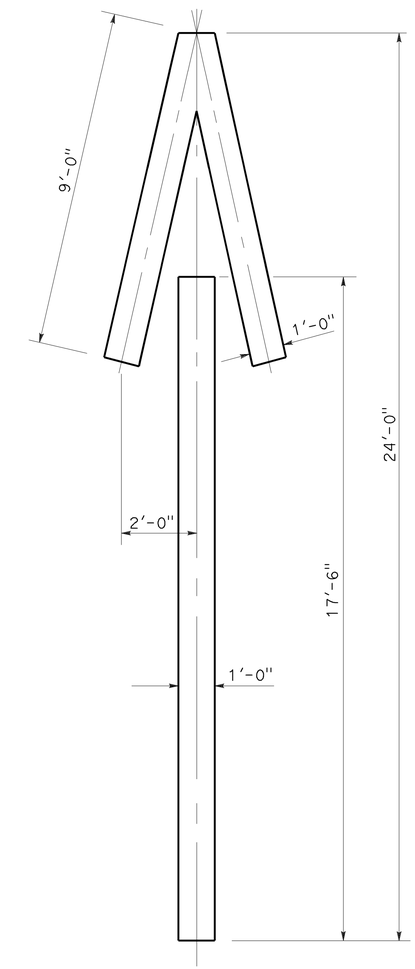
TYPE VIII ARROW



A=27 ft^2

TYPE VII (L) ARROW

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



A=33 ft^2

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	25	33

REGISTERED CIVIL ENGINEER

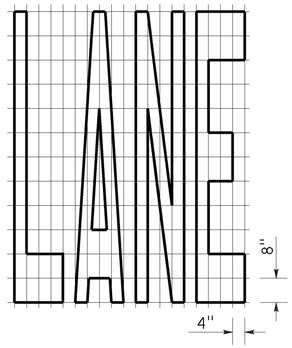
July 20, 2012
PLANS APPROVAL DATE

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

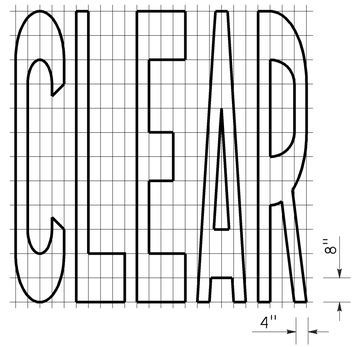
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 2-9-15

2010 REVISED STANDARD PLAN RSP A24E



A=24 ft^2



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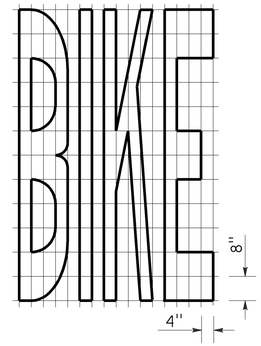
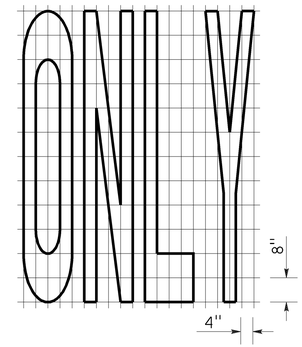
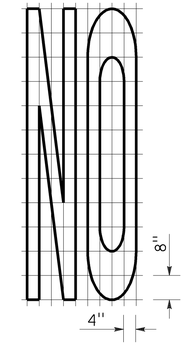


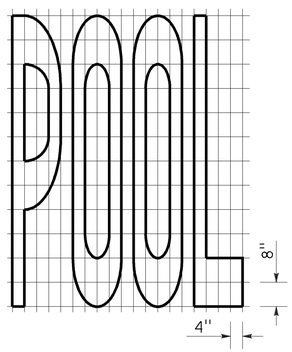
A=21 ft^2



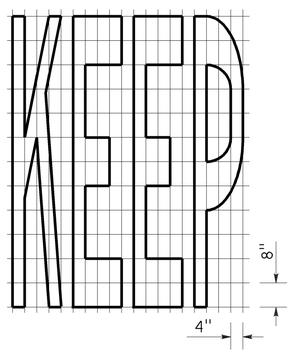
A=22 ft^2



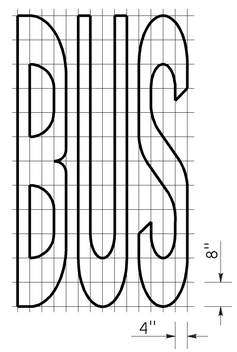
A=14 ft^2



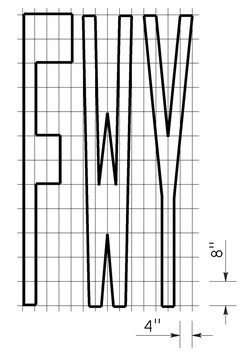
A=23 ft^2



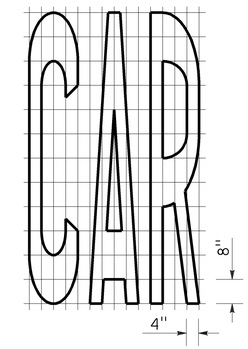
A=24 ft^2



A=20 ft^2

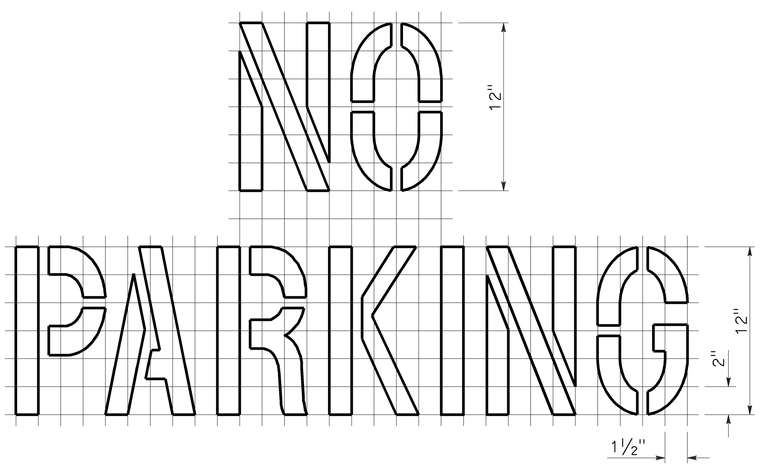


A=16 ft^2



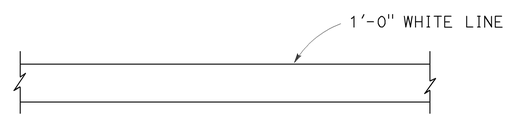
A=17 ft^2

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

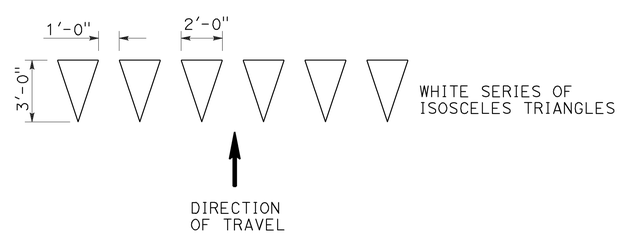


A=2 ft^2

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.

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

6-12-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	26	33

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

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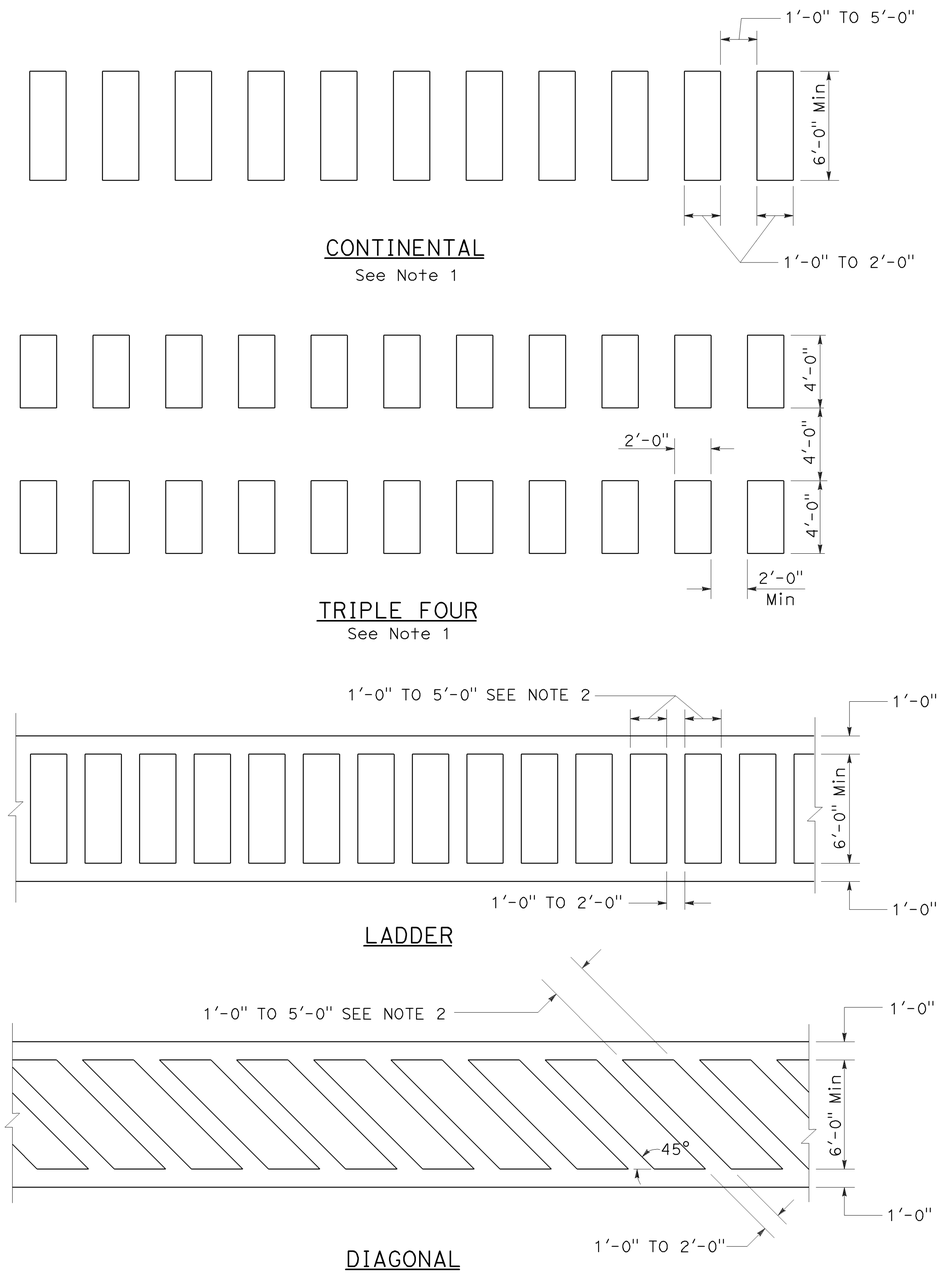
TO ACCOMPANY PLANS DATED 2-9-15

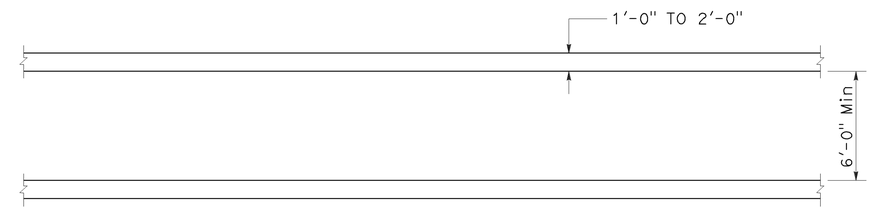
2010 REVISED STANDARD PLAN RSP A24F



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

6-28-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	27	33

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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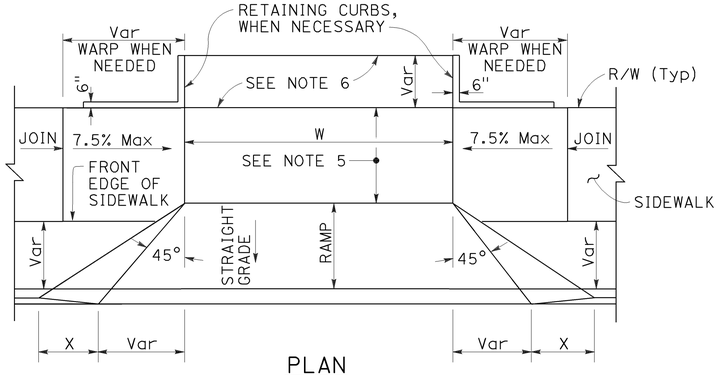
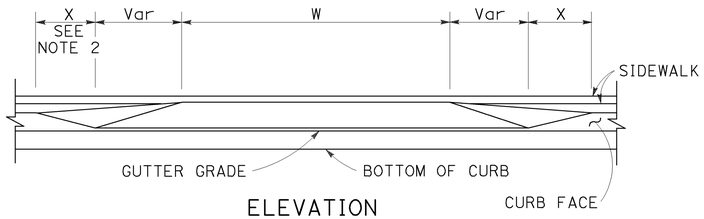
TO ACCOMPANY PLANS DATED 2-9-15

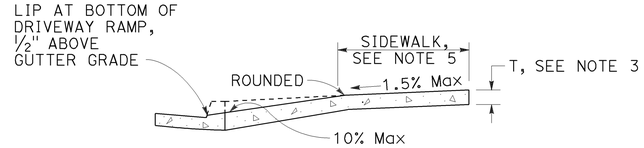
2010 REVISED STANDARD PLAN RSP A87A



PLAN

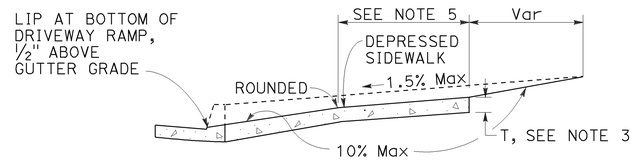


ELEVATION



CASE A

Typical driveway, sidewalk not depressed

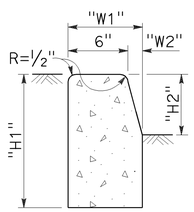


CASE B

Driveway with depressed sidewalk

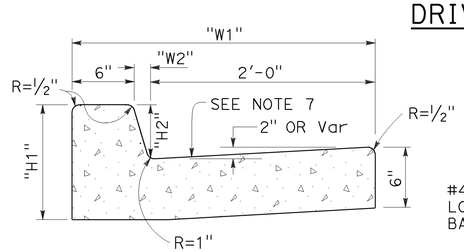
SECTIONS

DRIVEWAYS



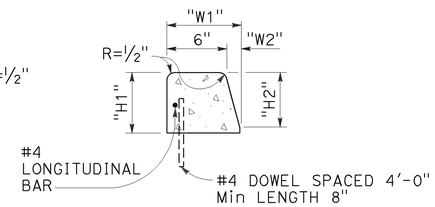
TYPE A1 CURBS

See Table A



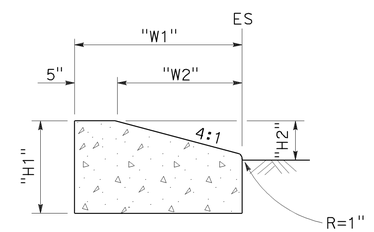
TYPE A2 CURBS

See Table A



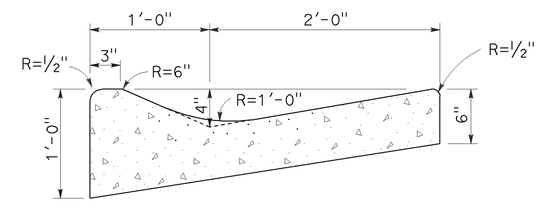
TYPE A3 CURBS

Superimposed on existing pavement
See Table A

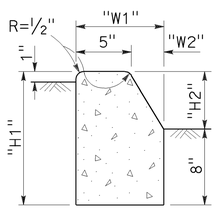


TYPE D CURBS

See Table A

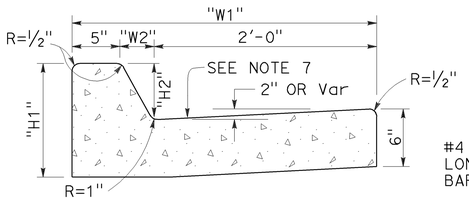


TYPE E CURB



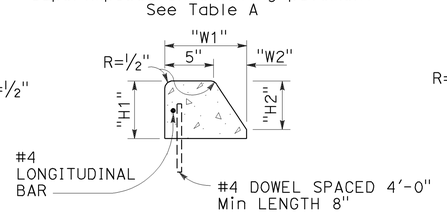
TYPE B1 CURBS

See Table A



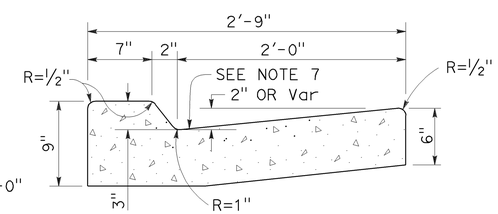
TYPE B2 CURBS

See Table A

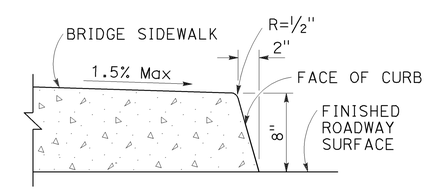


TYPE B3 CURBS

Superimposed on existing pavement
See Table A



TYPE B4 CURBS



TYPE H CURB

On Bridges

CURBS

TABLE A

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

CURB QUANTITIES

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

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURBS AND DRIVEWAYS

NO SCALE

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

REVISED STANDARD PLAN RSP A87A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	28	33

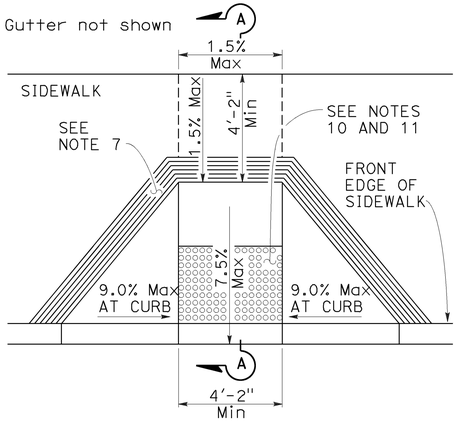
REGISTERED CIVIL ENGINEER

March 21, 2014
PLANS APPROVAL DATE

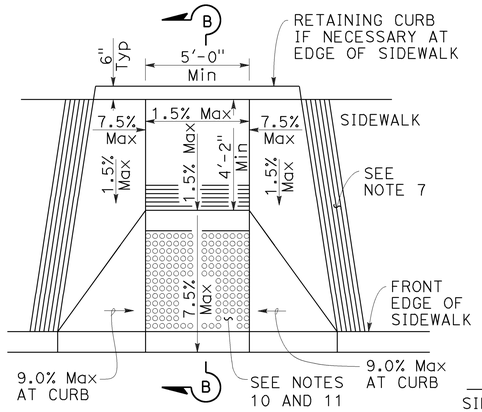
REGISTERED PROFESSIONAL ENGINEER Hector David Cordova No. C41957 Exp. 3-31-14 CIVIL STATE OF CALIFORNIA

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

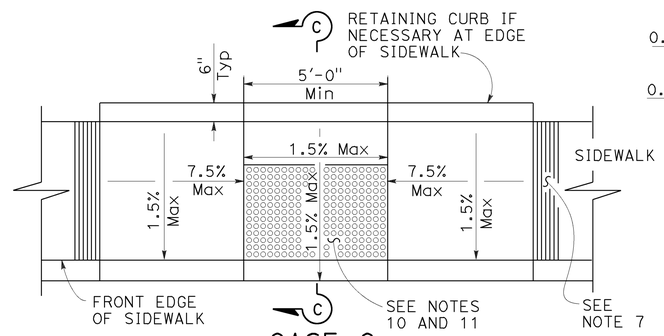
TO ACCOMPANY PLANS DATED 2-9-15



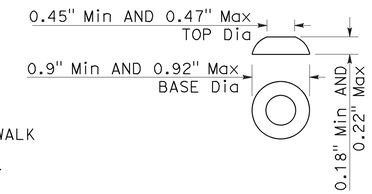
CASE A



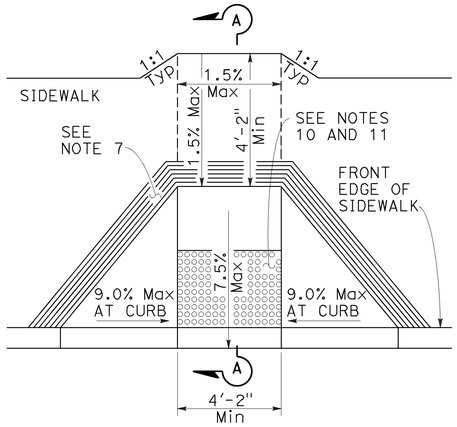
CASE B



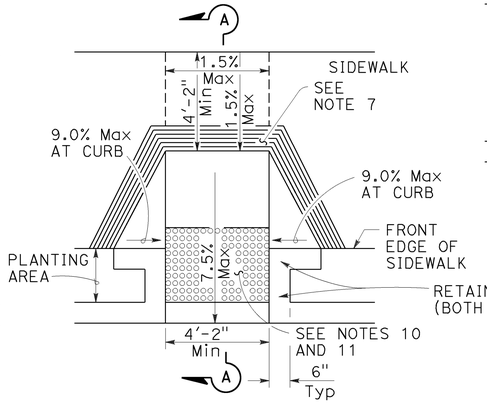
CASE C



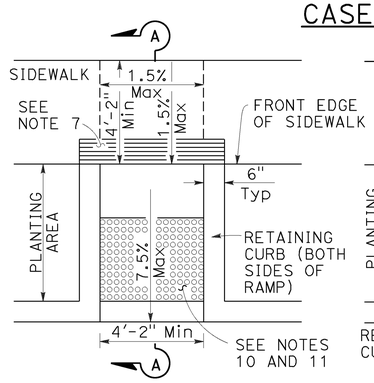
RAISED TRUNCATED DOME



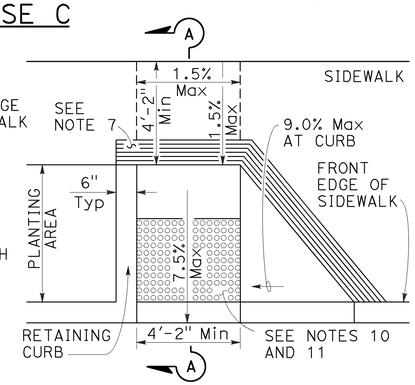
CASE D



CASE E

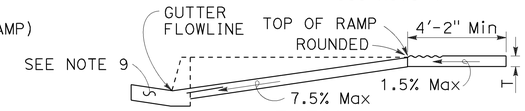


CASE F

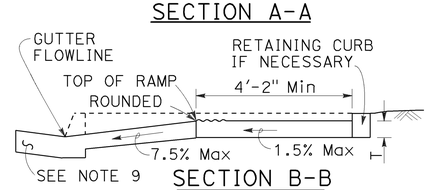


CASE G

See Note 4

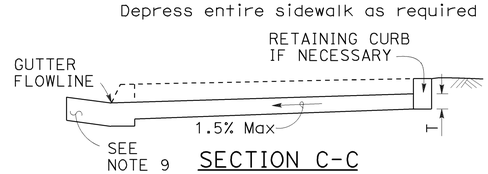


SECTION A-A

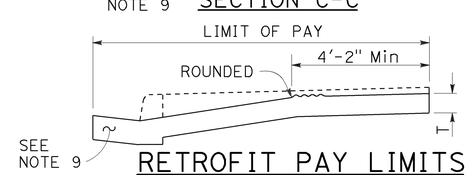


SECTION B-B

Depress entire sidewalk as required

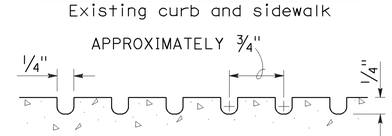


SECTION C-C

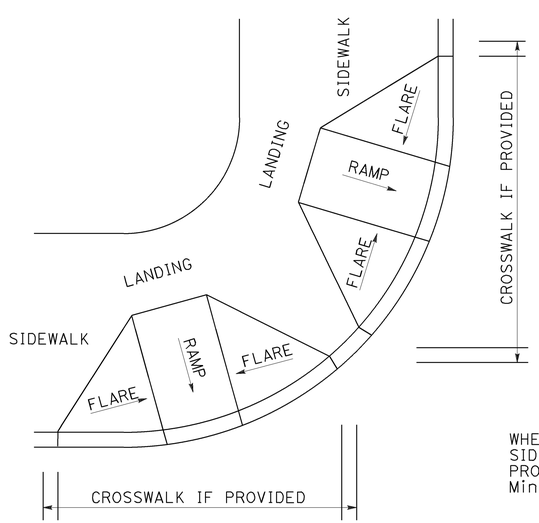


RETROFIT PAY LIMITS

Existing curb and sidewalk



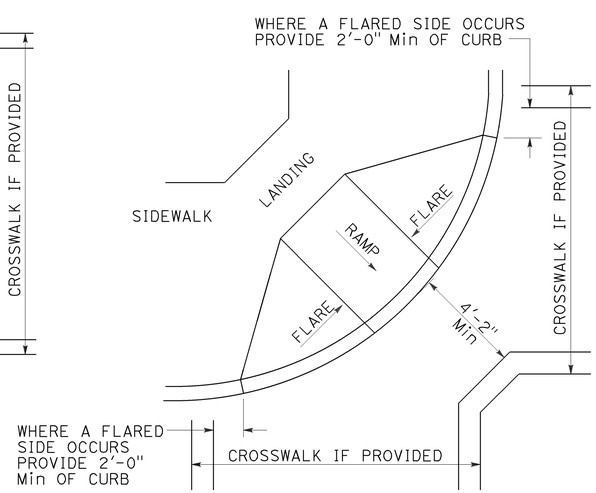
GROOVING DETAIL



DETAIL A

TYPICAL TWO-RAMP CORNER INSTALLATION

See Note 1



DETAIL B

TYPICAL ONE-RAMP CORNER INSTALLATION

See Notes 1 and 3

NOTES:

1. As site conditions dictate, Case A through Case G curb ramps may be used for corner installations similar to those shown in Detail A and Detail B. The case of curb ramps used in Detail A do not have to be the same. Case A through Case G curb ramps also may be used at mid block locations, as site conditions dictate.
2. If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-2" platform (landing) as shown in Case A, the sidewalk may be depressed longitudinally as in Case B, or C or may be widened as in Case D.
3. When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.
4. As site conditions dictate, the retaining curb side and the flared side of the Case G ramp shall be constructed in reversed position.
5. If located on a curve, the sides of the ramp need not be parallel, but the minimum width of the ramp shall be 4'-2".
6. Side slope of ramp flares vary uniformly from a maximum of 9.0% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F.
7. The curb ramp shall be outlined, as shown, with a 1'-0" wide border with 1/4" grooves approximately 3/4" on center. See grooving detail.
8. Transitions from ramps and landing to walks, gutters or streets shall be flush (no lip) and free of abrupt changes.
9. Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1:20 (5.0%). Gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.
10. Curb ramps shall have a detectable warning surface that extends the full width and 3'-0" depth of the ramp. A 4'-0" wide detectable warning surface may be used on a 4'-2" wide curb ramp. Detectable Warning Surfaces shall conform to the requirements in the Standard Specifications.
11. The edge of the detectable warning surface nearest the street shall be between 6" and 8" from the gutter flowline.
12. Sidewalk and ramp thickness, "T", shall be 3½" minimum.
13. Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.
14. Detectable warning surface may have to be cut to allow removal of utility covers while maintaining full detectable warning width and depth.

RAISED TRUNCATED DOME PATTERN (IN-LINE)

DETECTABLE WARNING SURFACE

See Note 10

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURB RAMP DETAILS

NO SCALE

RSP A88A DATED MARCH 21, 2014 SUPERSEDES RSP A88A DATED JULY 19, 2013 AND STANDARD PLAN A88A DATED MAY 20, 2011 - PAGE 121 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A88A

2010 REVISED STANDARD PLAN RSP A88A

2-25-14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	29	33

REGISTERED CIVIL ENGINEER

March 21, 2014
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Hector David Cordova No. C41957 Exp. 3-31-14 CIVIL STATE OF CALIFORNIA

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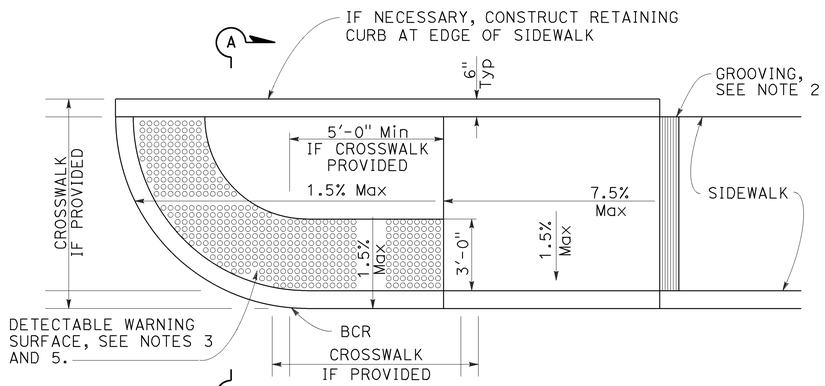
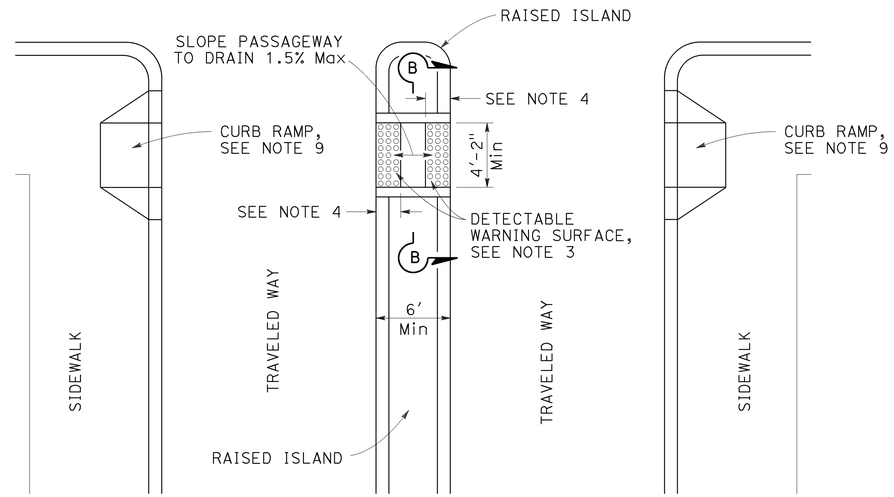
TO ACCOMPANY PLANS DATED 2-9-15

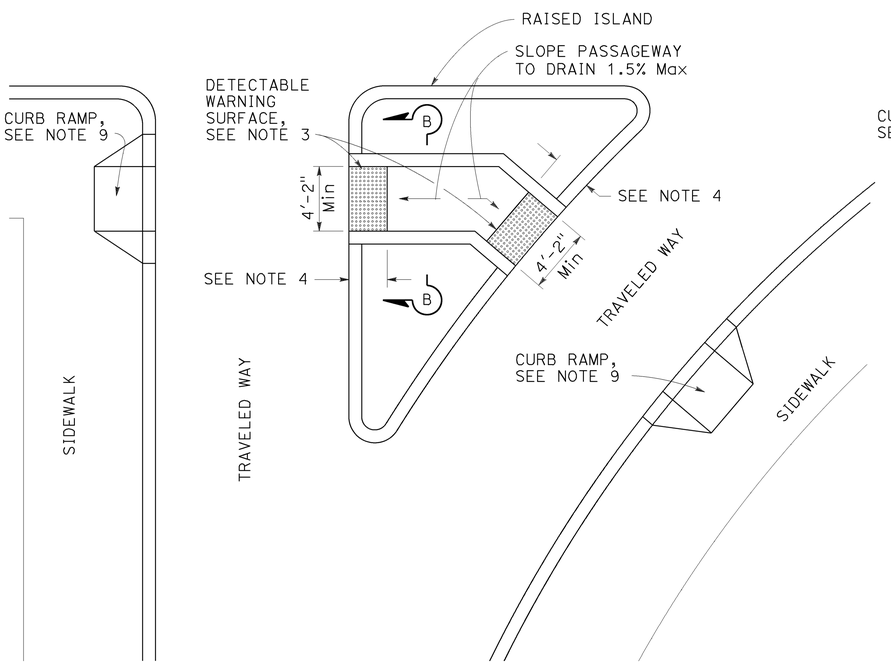
Gutter not shown



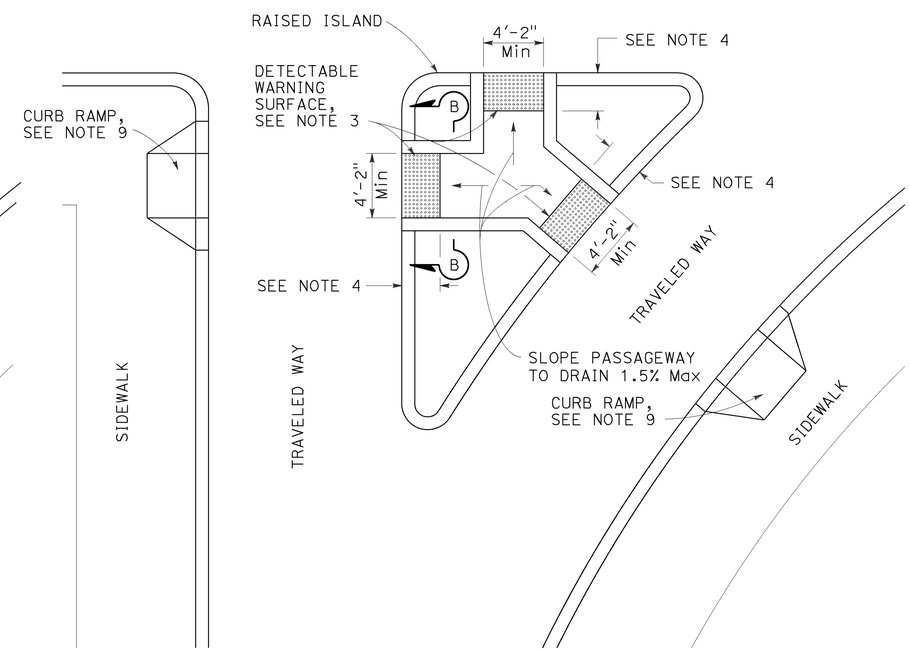
CASE CM CURB RAMP



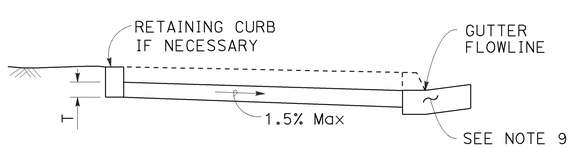
TYPE A PASSAGEWAY



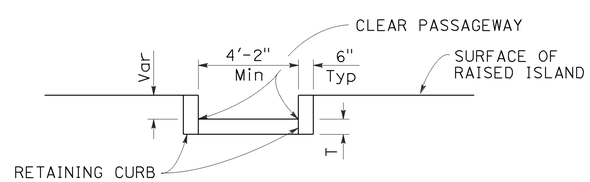
TYPE B PASSAGEWAY



TYPE C PASSAGEWAY



SECTION A-A



SECTION B-B

NOTES:

1. Sidewalk, ramp and passageway thickness, "T", shall be 3½" minimum.
2. For details of grooving used with Case CM curb ramp, see Revised Standard Plan RSP A88A.
3. For details of detectable warning surfaces, see Revised Standard Plan RSP A88A.
4. Where an island passageway length is greater than or equal to 6'-0", but less than 8'-0", each detectable warning surface shall extend the full width and 2'-0" depth of the passageway length. Where an island passageway length is greater than or equal to 8'-0", each detectable warning surface shall extend the full width and 3'-0" depth of the passageway length. A 4'-0" wide detectable warning surface may be used on a 4'-2" wide island passageway.
5. For Case CM curb ramp, the edge of the detectable warning surface nearest the street shall be between 6" and 8" from the gutter flowline.
6. Transitions from ramps to walks, gutters or streets shall be flush (no lip) and free of abrupt changes.
7. Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.
8. Detectable warning surface may have to be cut to allow removal of utility covers while maintaining full detectable warning width and depth.
9. For additional curb ramp details, see Revised Standard Plan RSP A88A.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURB RAMP AND ISLAND PASSAGEWAY DETAILS

NO SCALE

RSP A88B DATED MARCH 21, 2014 SUPERSEDES RSP A88B DATED JULY 19, 2013 AND STANDARD PLAN A88B DATED MAY 20, 2011 - PAGE 122 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A88B

2010 REVISED STANDARD PLAN RSP A88B

2-25-14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	30	33

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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TO ACCOMPANY PLANS DATED 2-9-15

2010 REVISED STANDARD PLAN RSP T9

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.

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	31	33

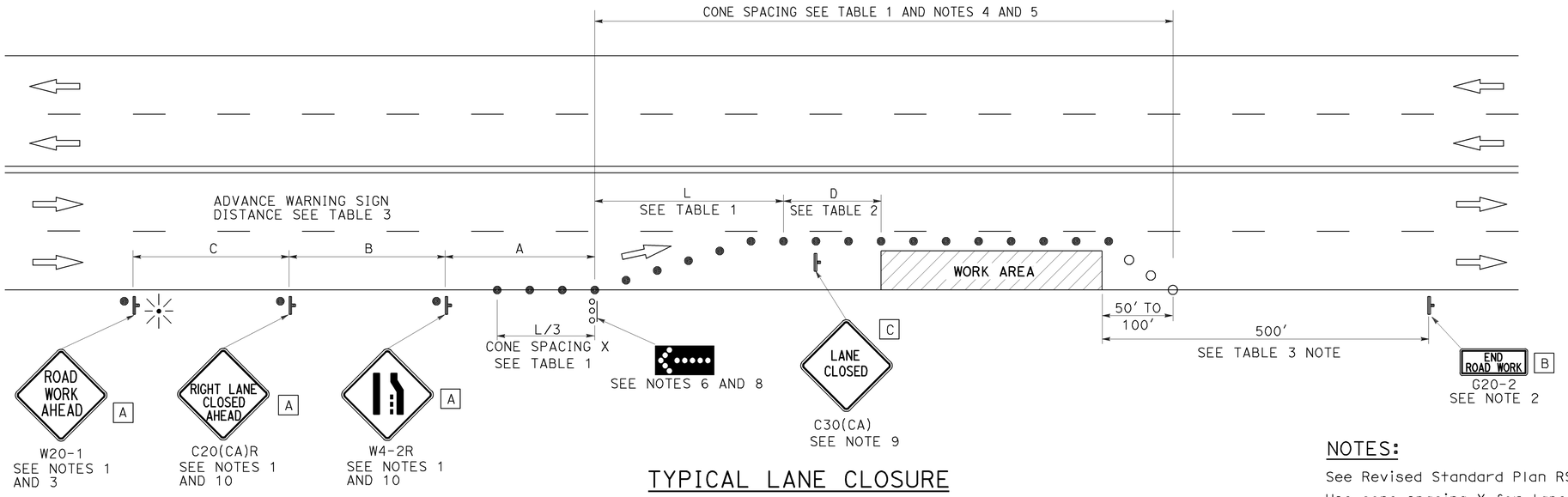
REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 2-9-15



TYPICAL LANE CLOSURE

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.

NOTES:

1. 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.
2. A G20-2 "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.
3. 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.
4. All cones used for lane 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 closures only.
6. Flashing arrow sign shall be either Type I or Type II.
7. 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.
8. 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 the top of crest vertical curve or on a horizontal curve.
9. Place a C30(CA) sign every 2000' throughout length of lane closure.
10. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
11. 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.

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	36" x 18"
C	30" x 30"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T11 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T11 DATED MAY 20, 2011 - PAGE 239 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T11

2010 REVISED STANDARD PLAN RSP T11

4-2-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	32	33

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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TO ACCOMPANY PLANS DATED 2-9-15

LEGEND

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

SIGN PANEL SIZE (Min)

A	48" x 48"
B	24" x 24"
C	36" x 18"

NOTES:

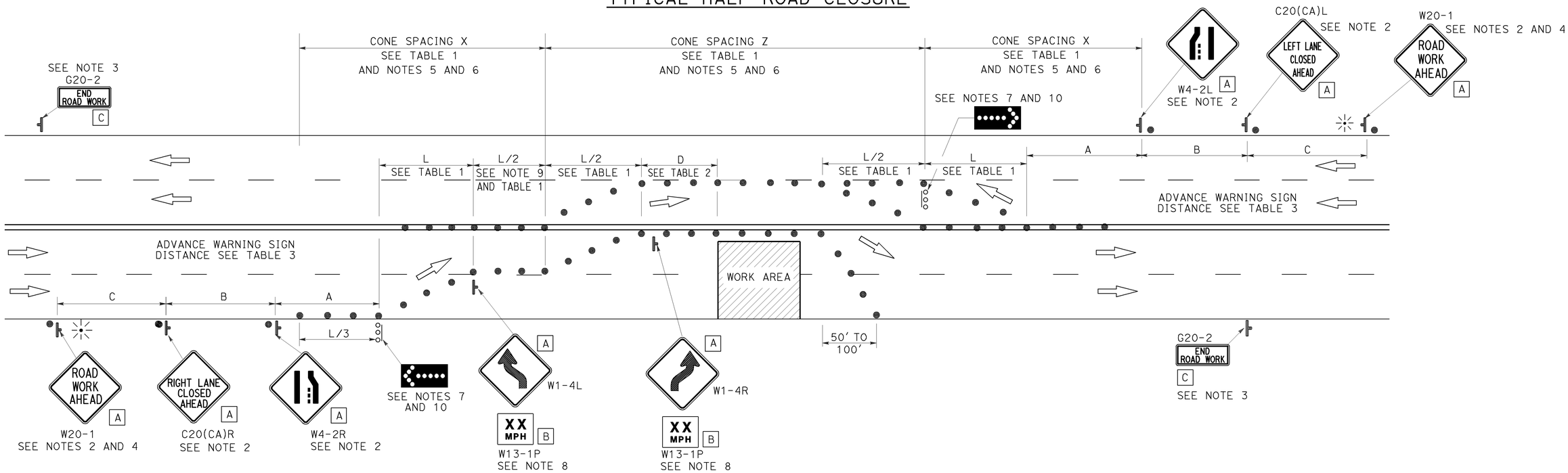
See Revised Standard Plan RSP T9 for tables.

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.

TYPICAL HALF ROAD CLOSURE



NOTES:

1. 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.
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 G20-2 "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 G20-1 "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 signs shall be either Type I or Type II.
8. Advisory speed will be determined by the Engineer. The W13-1P Plaque will not be required when advisory speed is more than the posted or maximum speed limit.
9. Unless otherwise specified in the special provisions, the tangent (L/2) shall be used.
10. 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 the top of crest vertical curve or on a horizontal curve.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR HALF ROAD CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS AND EXPRESSWAYS

NO SCALE

RSP T12 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T12
DATED MAY 20, 2011 - PAGE 240 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T12

2010 REVISED STANDARD PLAN RSP T12

4-2-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	R14.2	33	33

REGISTERED CIVIL ENGINEER

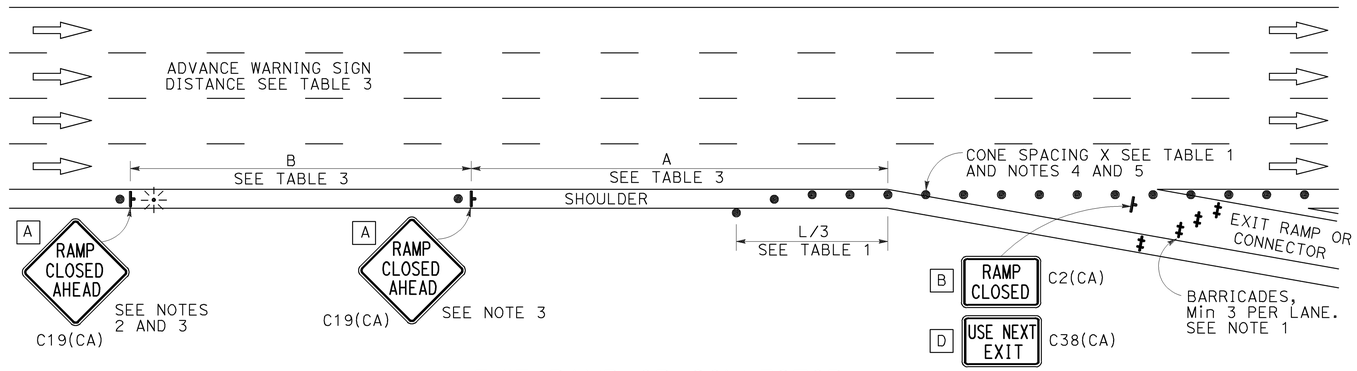
April 19, 2013
PLANS APPROVAL DATE

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

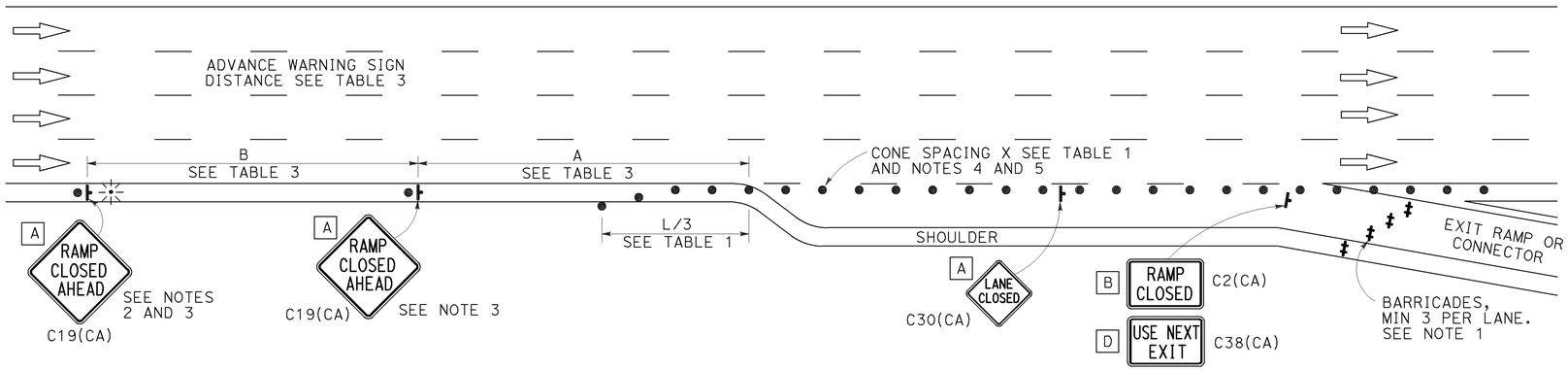
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 2-9-15

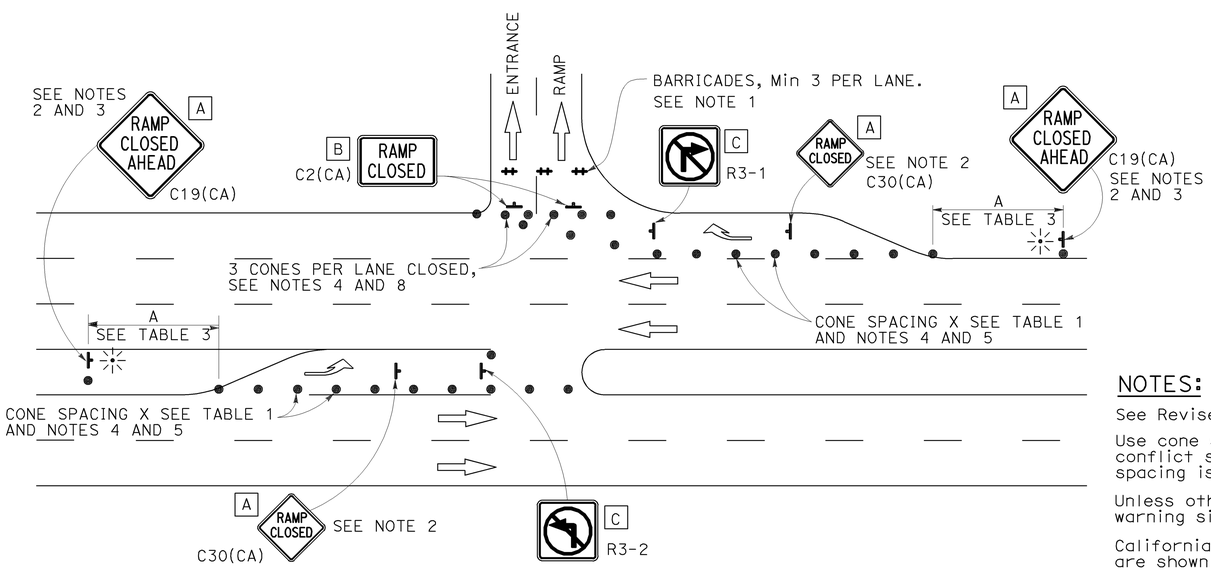
TYPICAL RAMP CLOSURES



EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS

SIGN PANEL SIZE (Min)

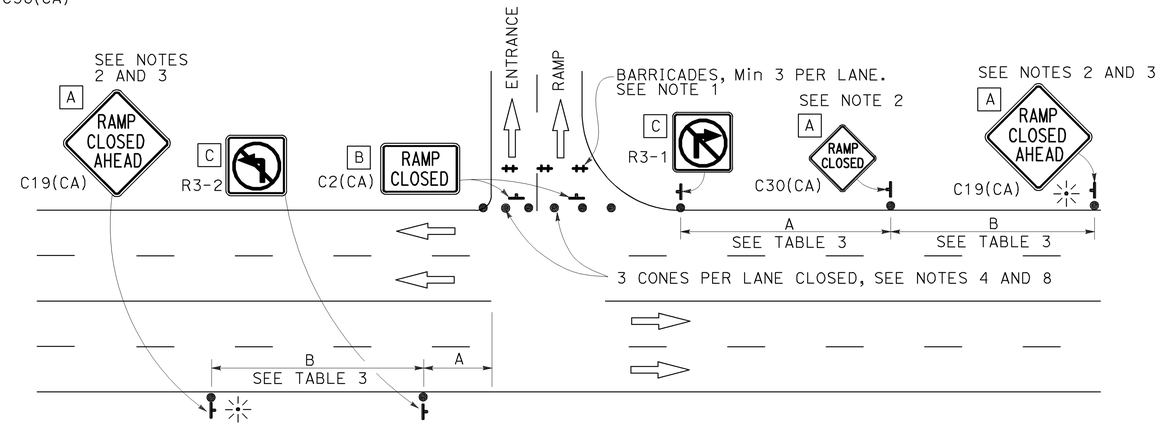
- A 48" × 48"
- B 48" × 30"
- C 36" × 36"
- D 48" × 36"

LEGEND

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

NOTES:

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



ENTRANCE RAMP WITHOUT TURNING POCKETS

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.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

NO SCALE

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

REVISED STANDARD PLAN RSP T14

2010 REVISED STANDARD PLAN RSP T14

12-18-12