

INDEX OF PLANS

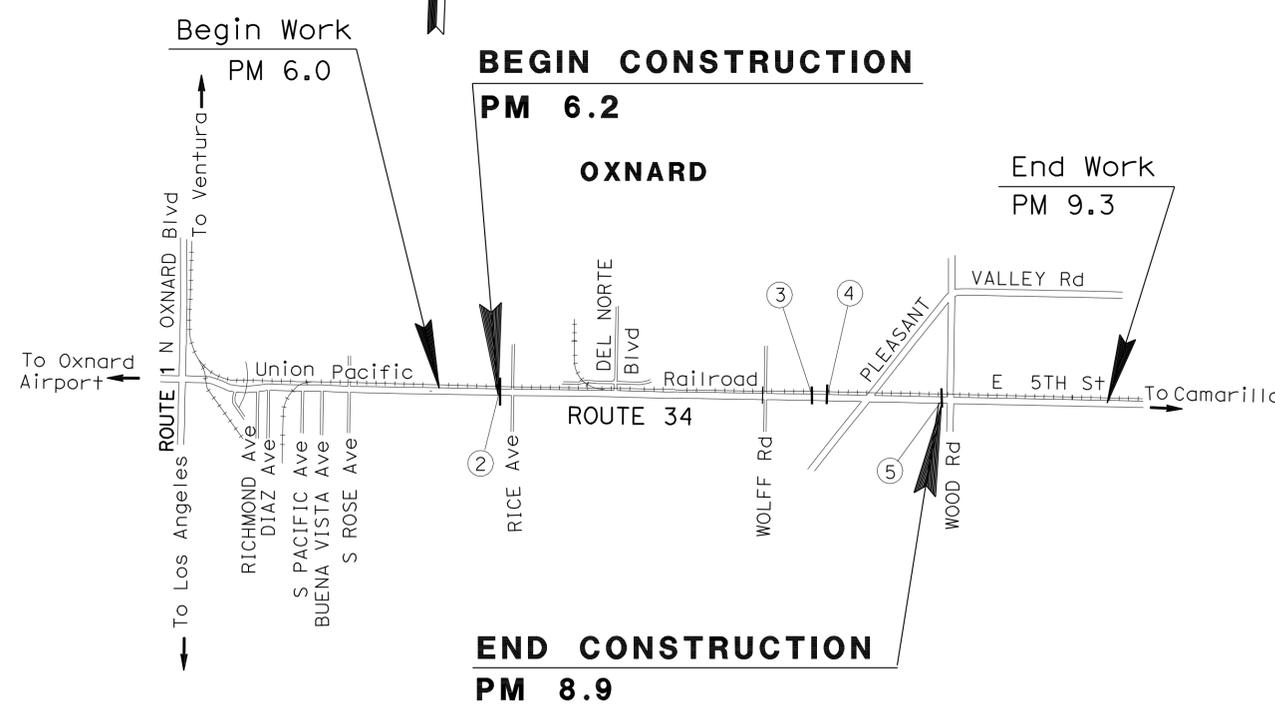
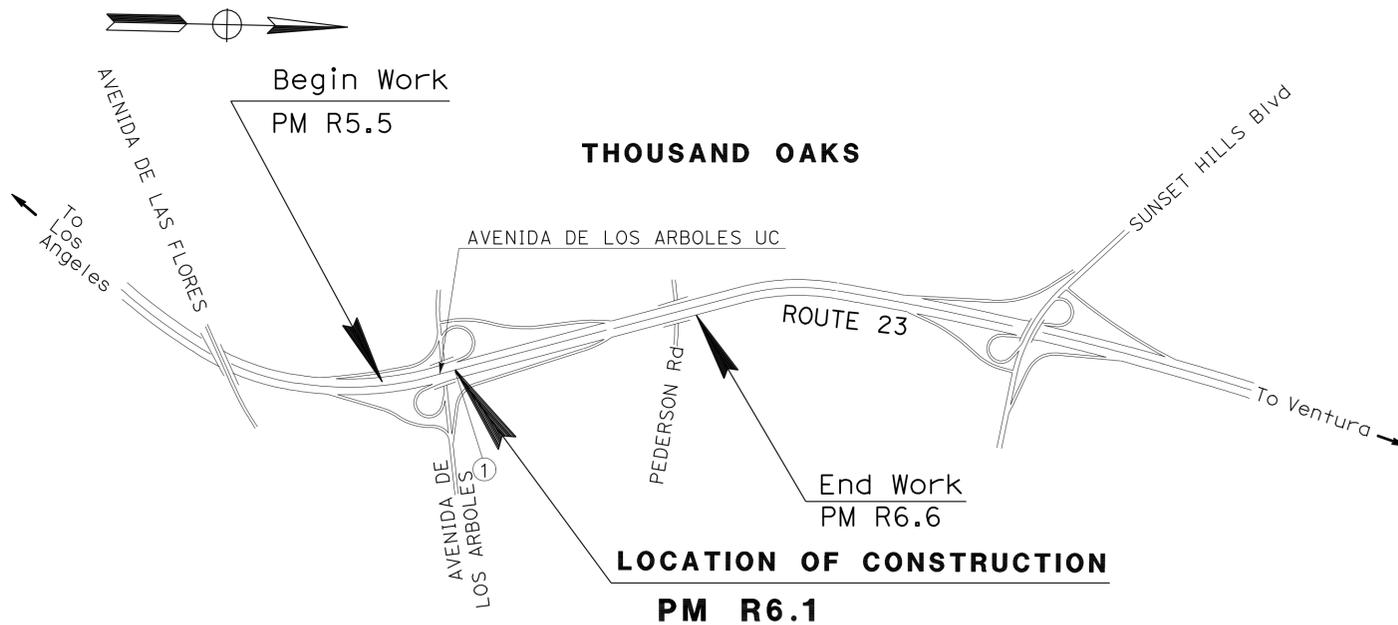
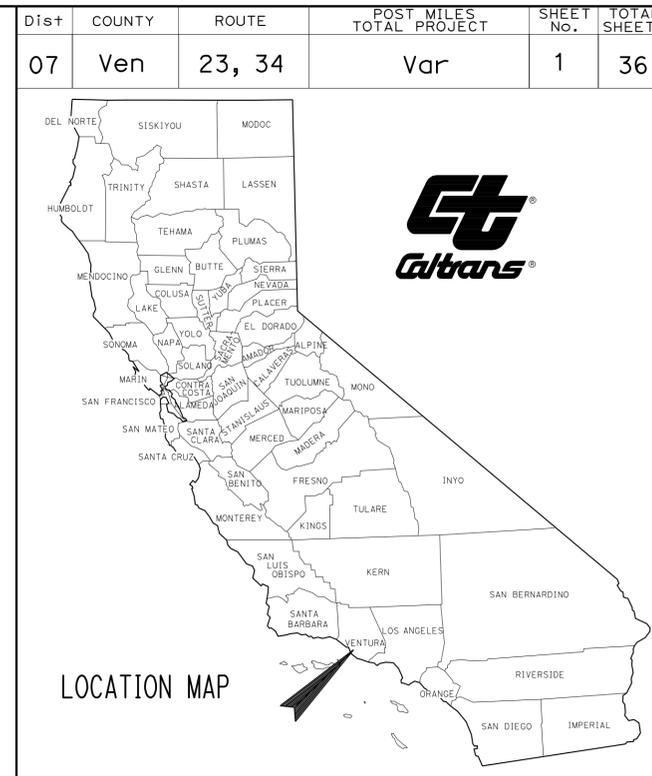
SHEET No.	DESCRIPTION
1	TITLE SHEET AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN VENTURA COUNTY
IN THOUSAND OAKS AND OXNARD
ON ROUTE 23 AT AVENIDA DE LOS ARBOLES UNDERCROSSING
AND ON ROUTE 34 FROM 0.1 MILE WEST OF
RICE AVENUE TO WOOD ROAD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



LOCATIONS OF CONSTRUCTION

Loc. No.	ROUTE	PM	DIRECTION	DESCRIPTION
1	23	R6.1	NORTHBOUND/SOUTHBOUND	FROM AVENIDA DE LOS ARBOLES OFF-RAMP TO 0.17 MILE NORTH OF AVENIDA DE LOS ARBOLES UC
2	34	6.2	EASTBOUND/WESTBOUND	0.1 MILE WEST OF RICE Ave
3	34	8.2	WESTBOUND	0.23 MILE WEST OF E PLEASANT VALLEY Rd
4	34	8.2	WESTBOUND	0.2 MILE WEST OF E PLEASANT VALLEY Rd
5	34	8.9	EASTBOUND	EAST FIFTH STREET AND WOOD ROAD JUNCTION

Larry Wiering 2-5-13
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER
February 25, 2013
PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

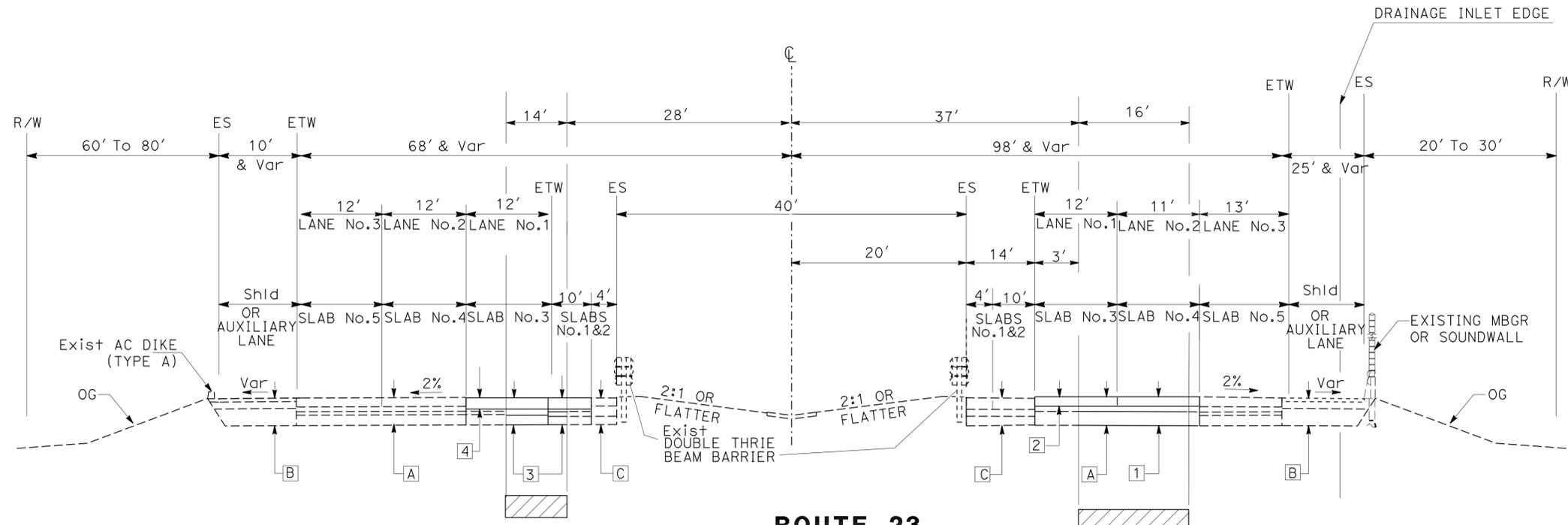
CONTRACT No. **07-1W5304**
PROJECT ID **0712000323**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	2	36

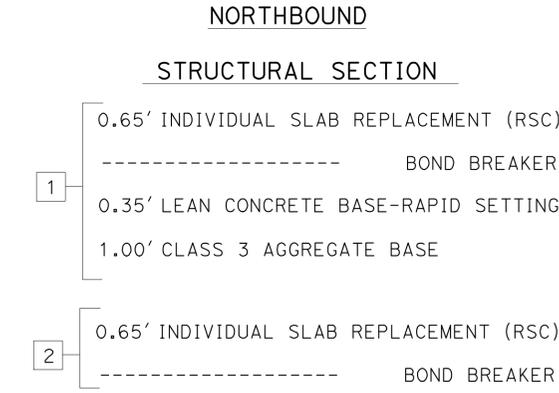
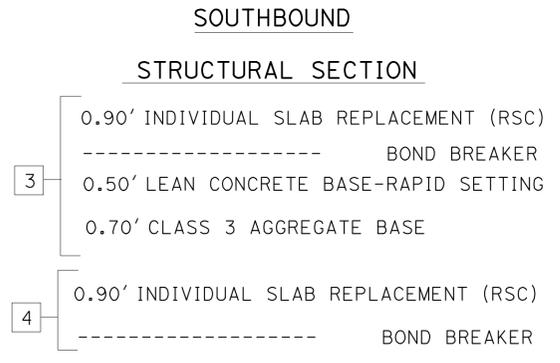
2-5-13
 REGISTERED CIVIL ENGINEER DATE
 2-25-13
 PLANS APPROVAL DATE

LARRY WIERING
 No. C41247
 Exp. 3-31-13
 CIVIL

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.



ROUTE 23
AVENIDA DE LOS ARBOLES
LOCATION No. 1



18" CORRUGATED STEEL PIPE

EXISTING STRUCTURAL SECTION

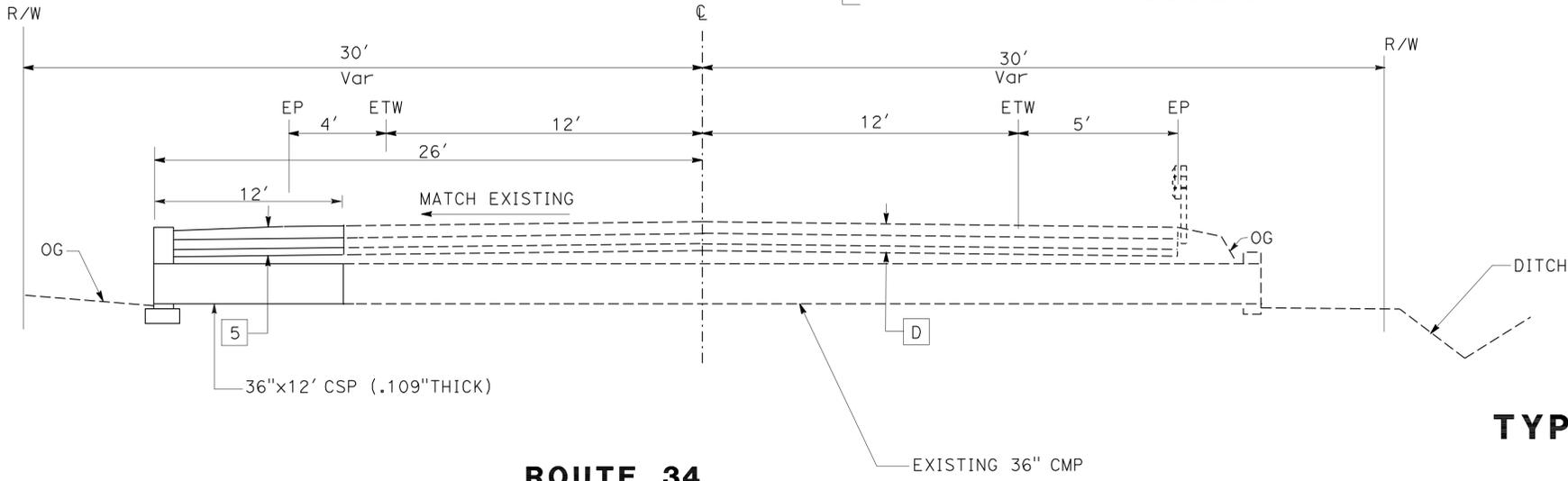
- A 0.65' PCC
0.35' CTB (CLASS A)
0.25' CLASS 3 AB
0.75' CLASS 4 AS
- B 0.25' AC
0.50' CLASS 2 AB
Var CLASS 4 AS
- C 0.90' PCC
0.50' LCB
0.70' CLASS 3 AB

EXISTING STRUCTURAL SECTION

- D 0.50' AC
0.50' CLASS 2 AGGREGATE BASE
0.35' CLASS 3 AGGREGATE BASE

PROPOSED STRUCTURAL SECTION

- 5 0.50' HMA (TYPE A)
0.50' LCB
0.35' CLASS 3 AGGREGATE BASE



ROUTE 34
LOCATIONS No. 3 AND 4

TYPICAL CROSS SECTIONS
 NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR GODSON OKEREKE
 CALCULATED/DESIGNED BY CHECKED BY
 GEHAN ATTALAH LARRY WIERING
 REVISED BY DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	3	36

Larry Wiering 2-5-13
 REGISTERED CIVIL ENGINEER DATE
 2-25-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 LARRY WIERING
 No. C41247
 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.

NOTES:

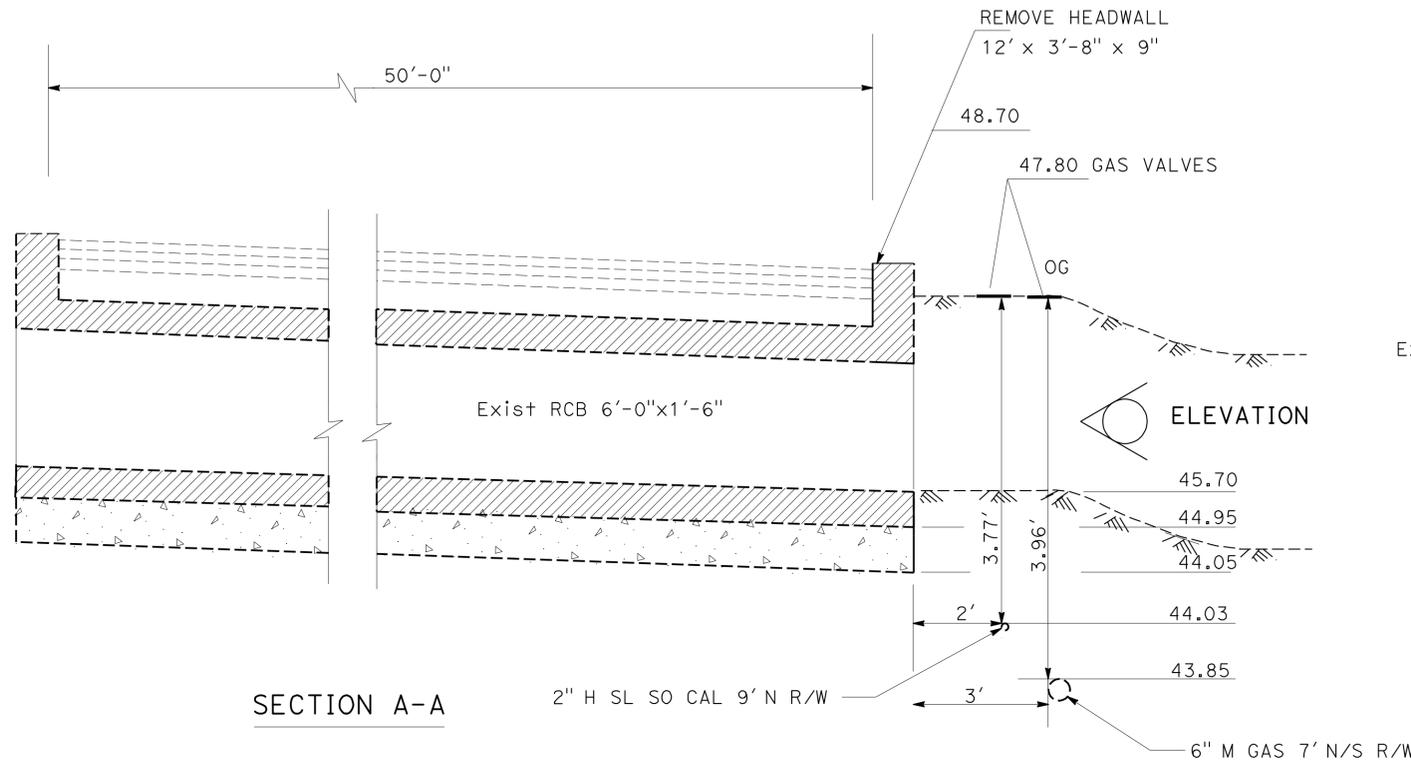
1. FOR PARAPET DETAILS SEE STANDARD PLAN D82.

LEGEND:

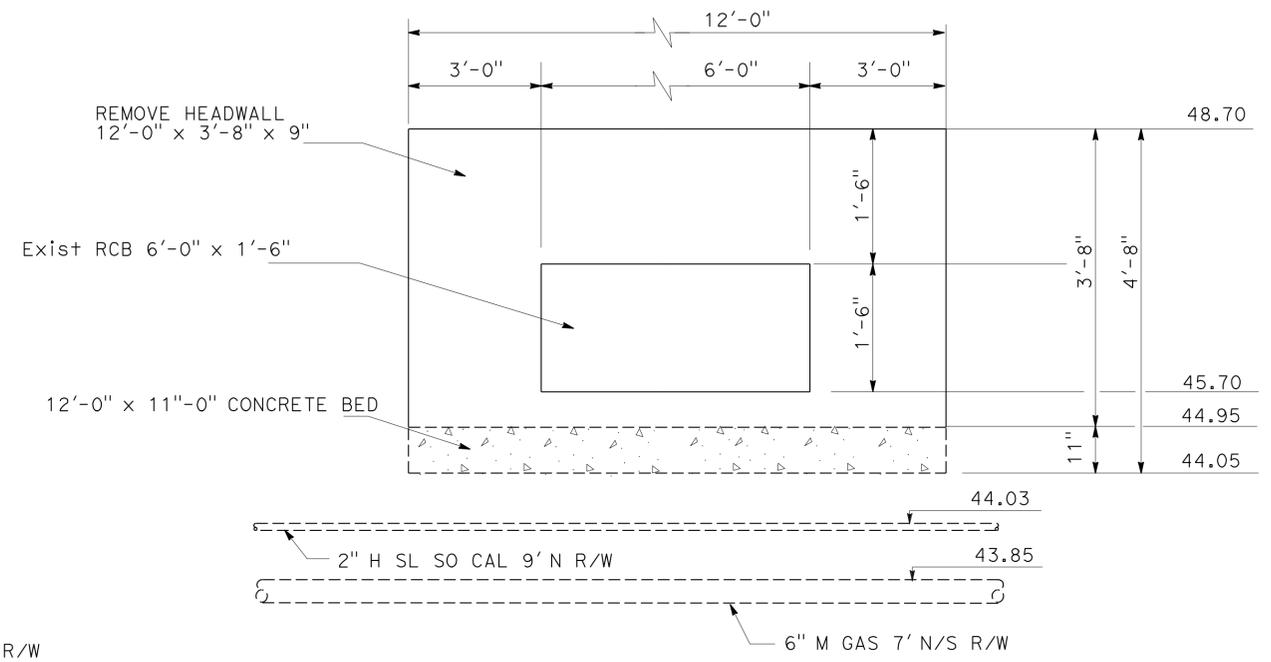
-  REINFORCED CONCRETE CULVERT BOX
-  PLAIN CONCRETE BED

ABBREVIATIONS:

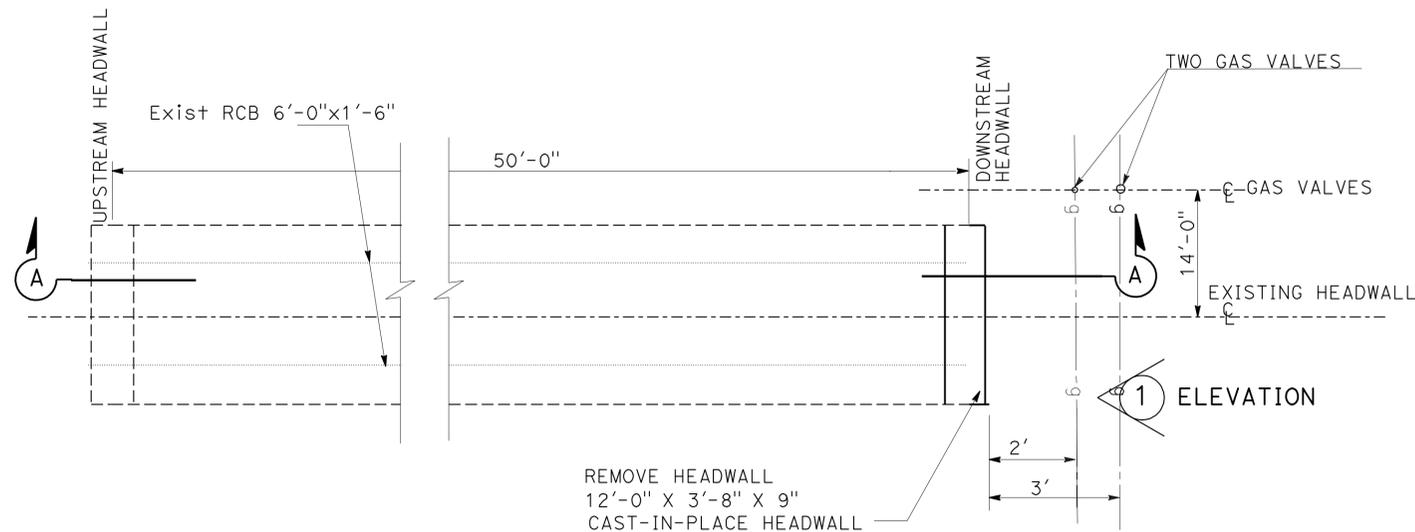
- CLSM CONTROLLED LOW STRENGTH MATERIAL
- AB CI 3 CLASS 3 AGGREGATE BASE



SECTION A-A



ELEVATION



PLAN

LOCATION No. 5
 ROUTE 34 PM 8.92

CONSTRUCTION DETAILS
 NO SCALE

C-1



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	4	36

2-5-13
 REGISTERED CIVIL ENGINEER DATE
 2-25-13
 PLANS APPROVAL DATE

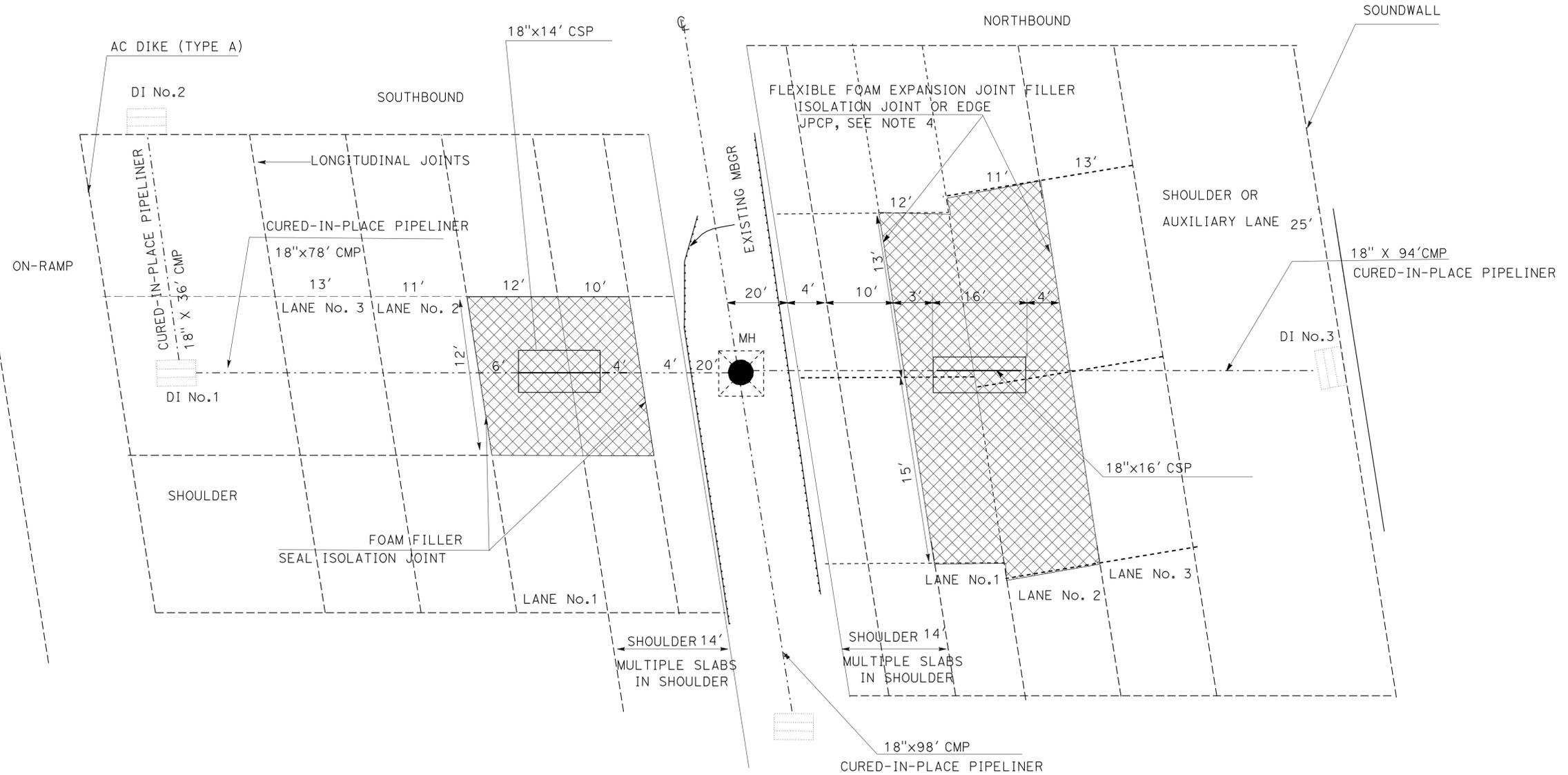
LARRY WIERING
 No. C41247
 Exp. 3-31-13
 CIVIL
 STATE OF CALIFORNIA

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.

NOTES:

- FOR DOWEL TOLERANCES SEE REVISED STANDARD PLAN P10.
- USE SIDE FORMS IF EDGE OF PAVEMENT IS ADJACENT TO ASPHALT CONCRETE.
- TRANSVERSE JOINT MUST MATCH SKEW OF EXISTING JOINT.
- WHERE EXISTING JOINT SPACING PATTERN DIFFERS, LONGITUDINAL ISOLATION JOINT BEGINS AND ENDS AT NEW WEAKENED PLANNED JOINT.
- THE ENGINEER WILL DETERMINE THE BROKEN PIPE SECTION.
- FOR PROPOSED STRUCTURAL SECTION OUTSIDE THE EXCAVATION TRENCH, SEE X-1.

LEGEND:



LOCATION NO. 1
 PM R6.1 ROUTE 23

CONSTRUCTION DETAILS
 NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR BY
Caltrans MAINTENANCE ENGINEERING	GODSON OKEREKE	CHECKED BY	DATE REVISED
		GEHAN ATTALAH	LARRY WIERING

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	5	36

LARRY WIERING 2-5-13
 REGISTERED CIVIL ENGINEER DATE
 2-25-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 LARRY WIERING
 No. C41247
 Exp. 3-31-13
 CIVIL
 STATE OF CALIFORNIA

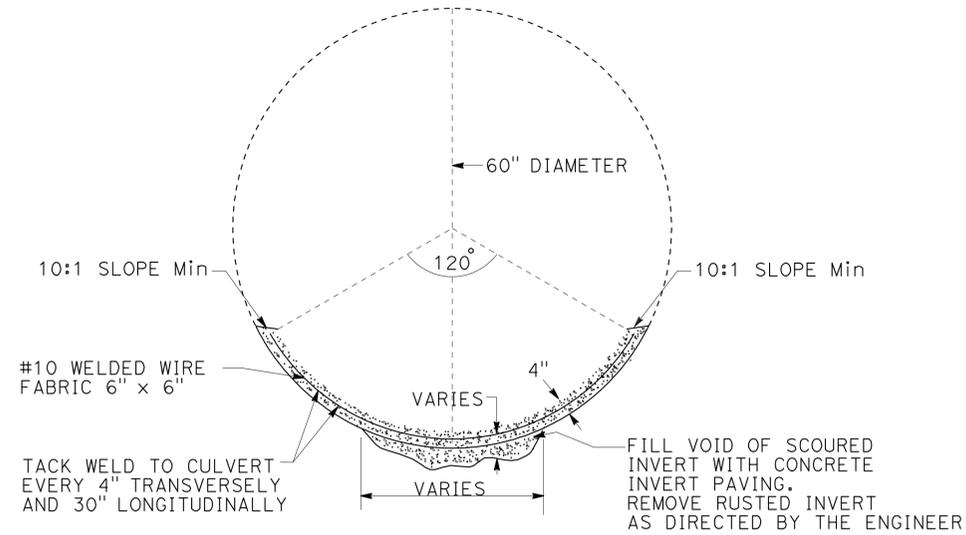
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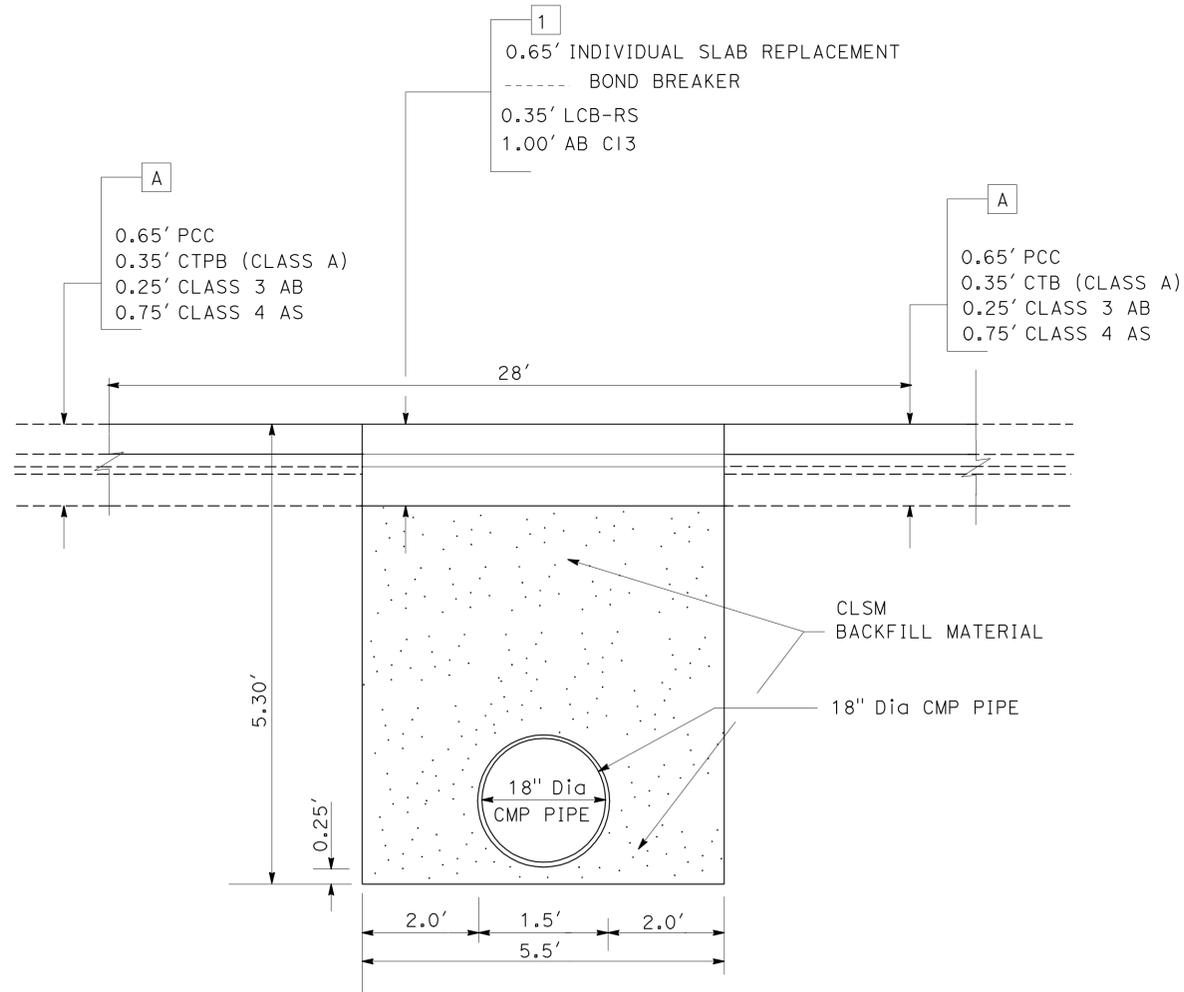
CLSM CONTROLLED LOW-STRENGTH MATERIAL
 LCB-RS LEAN CONCRETE BASE-RAPID SETTING

LEGEND:

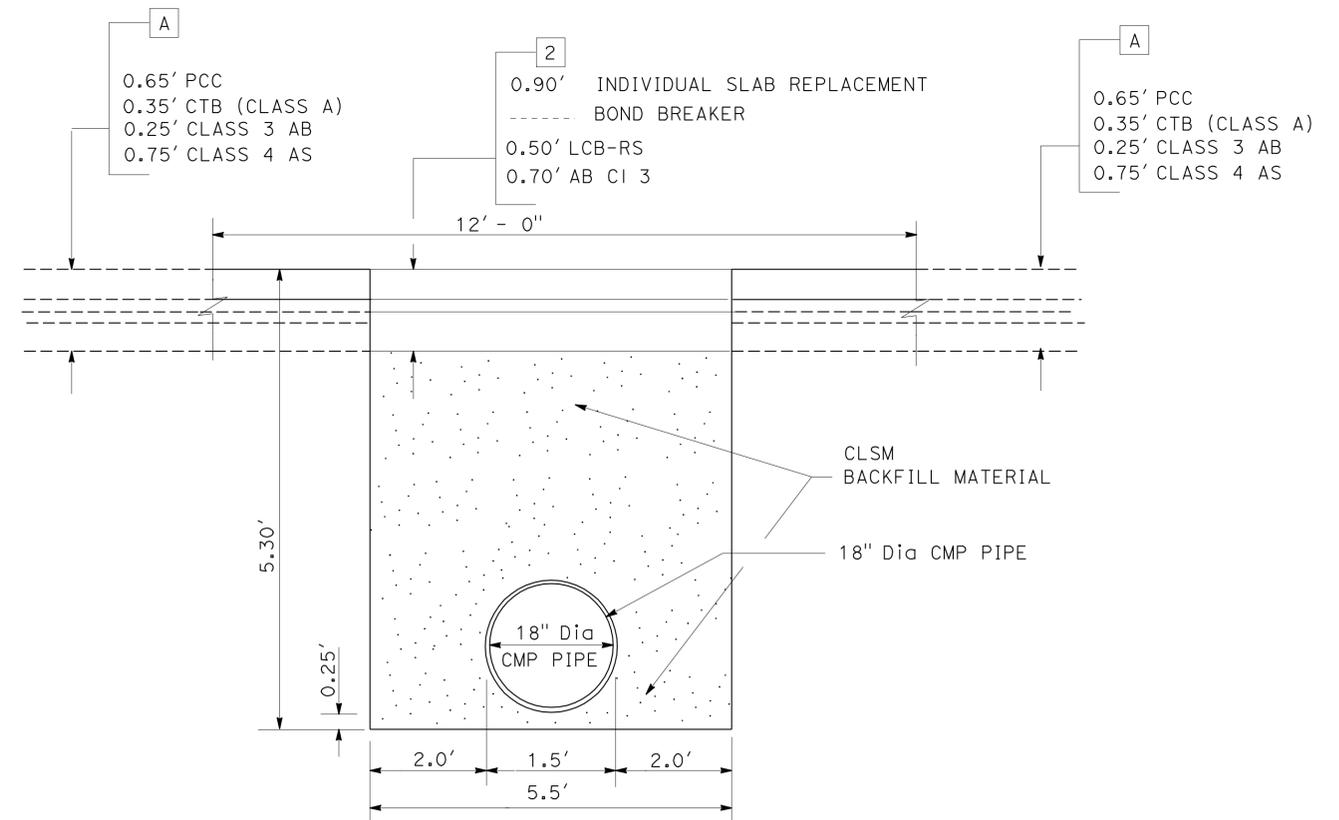
* FOR PIPE DETAIL SEE DRAINAGE PLAN AND PROFILE



CONCRETE INVERT PAVING



NORTHBOUND



SOUTHBOUND

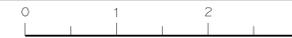
CONSTRUCTION DETAILS
NO SCALE

LOCATION No.1

ROUTE 23 PM R6.1

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR BY
Caltrans MAINTENANCE ENGINEERING	GODSON OKEREKE	CHECKED BY	GEHAN ATTALAH
			LARRY WIERING



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	6	36

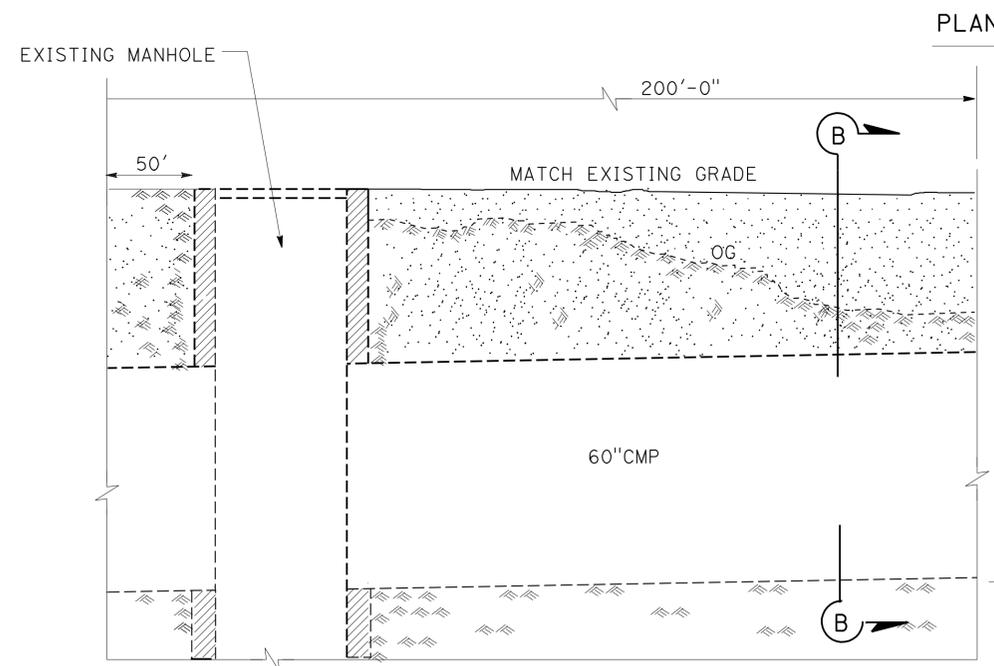
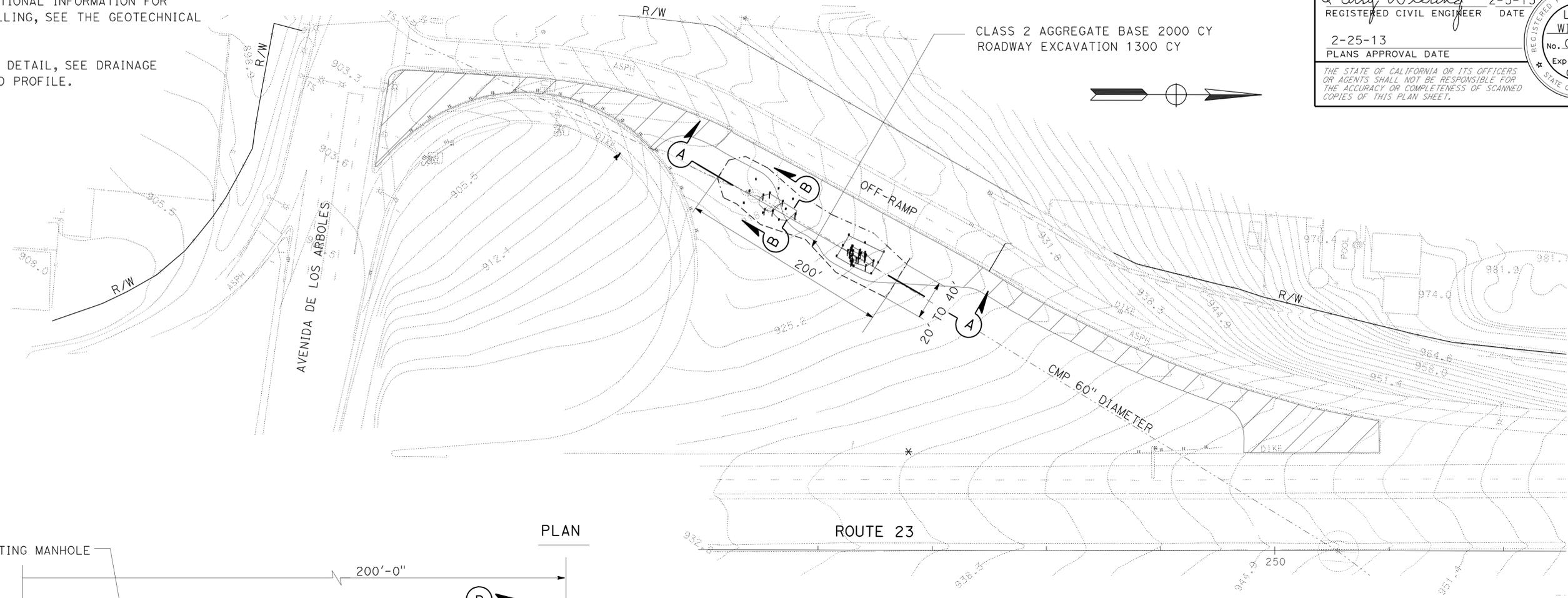
<i>Larry Wiering</i>	2-5-13
REGISTERED CIVIL ENGINEER	DATE
2-25-13	
PLANS APPROVAL DATE	

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

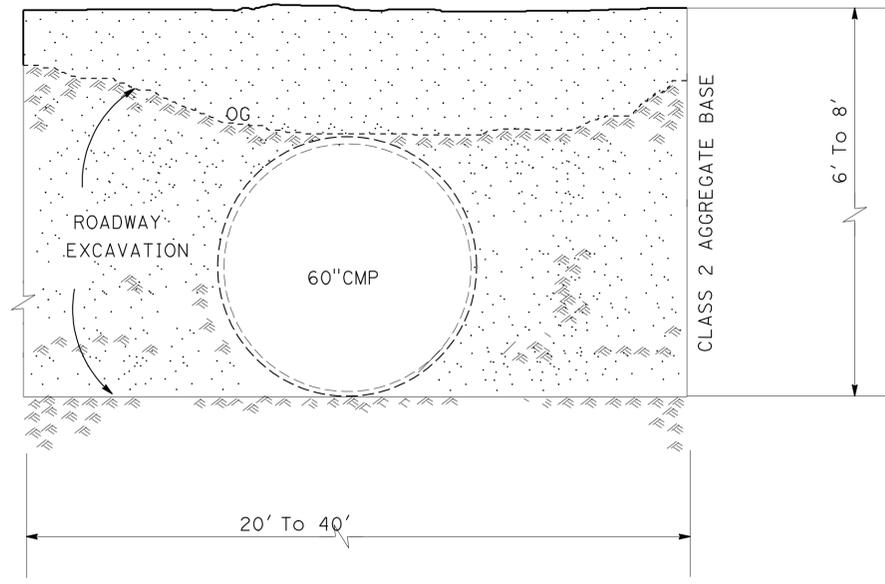


NOTES:

- FOR ADDITIONAL INFORMATION FOR BACK FILLING, SEE THE GEOTECHNICAL REPORT.
- FOR PIPE DETAIL, SEE DRAINAGE PLAN AND PROFILE.



SECTION A-A



SECTION B-B

CONSTRUCTION DETAILS
NO SCALE

LOCATION No.1
ROUTE 23 PM R6.1

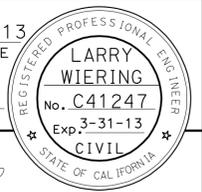
C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans MAINTENANCE ENGINEERING	GODSON OKEREKE	GEHAN ATTALAH	
		LARRY WIERING	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	8	36

<i>Larry Wiering</i>	2-5-13
REGISTERED CIVIL ENGINEER	DATE
2-25-13	
PLANS APPROVAL DATE	

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

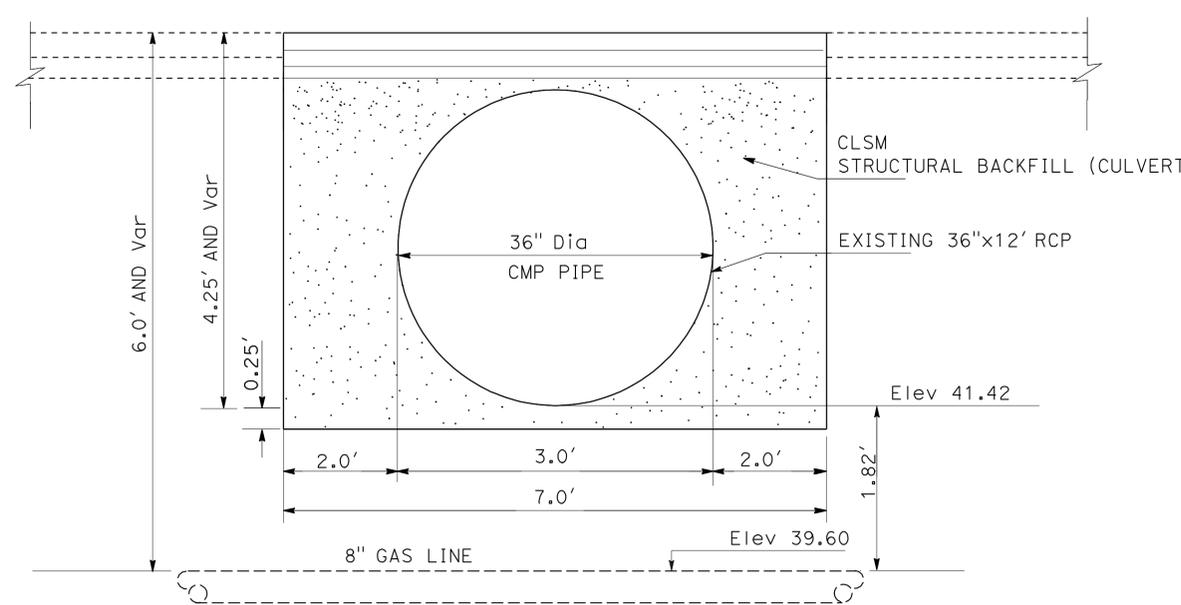
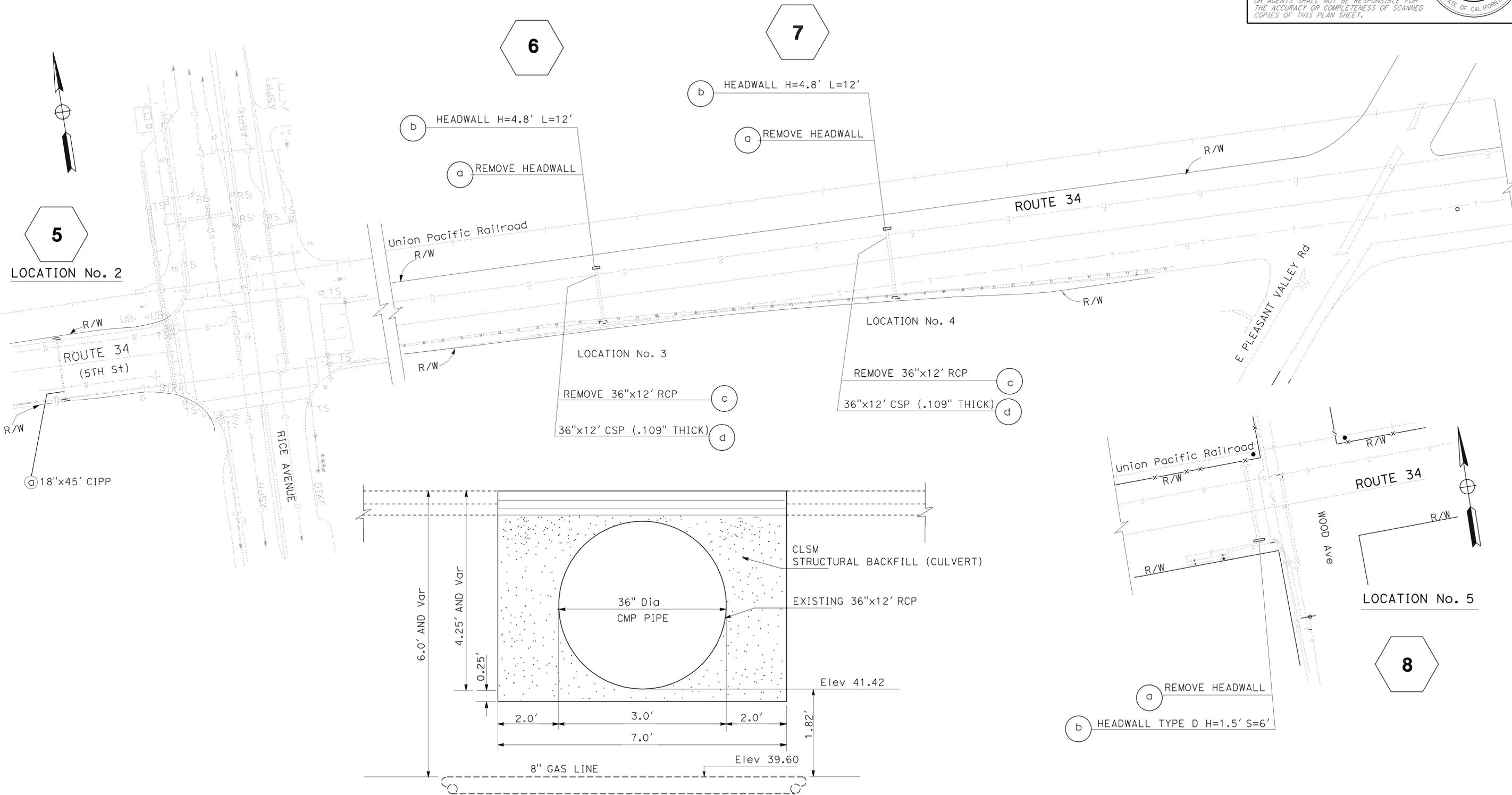


NOTES:

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

LEGEND:

CLSM CONTROLLED LOW STRENGTH MATERIAL



TYPICAL SECTION
LOCATIONS No. 3 AND 4

**ROUTE 34
LOCATIONS No. 2, 3, 4 AND 5**

DRAINAGE PLAN

NO SCALE

APPROVED FOR DRAINAGE WORK ONLY

D-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR BY
Caltrans MAINTENANCE ENGINEERING	GODSON OKEREKE	CHECKED BY	GEHAN ATTALAH
			LARRY WIERING
			DATE REVISED

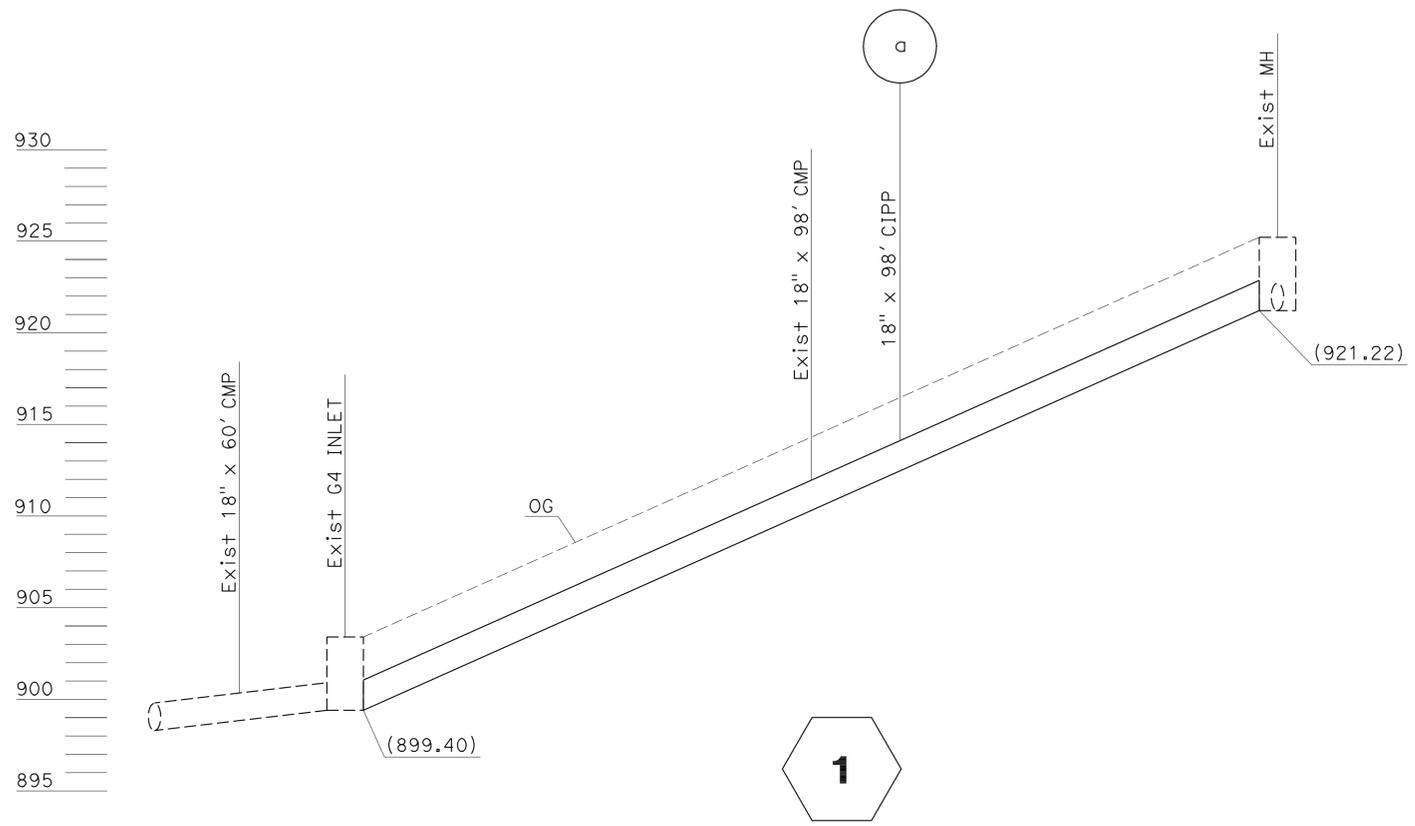


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23,34	Var	9	36

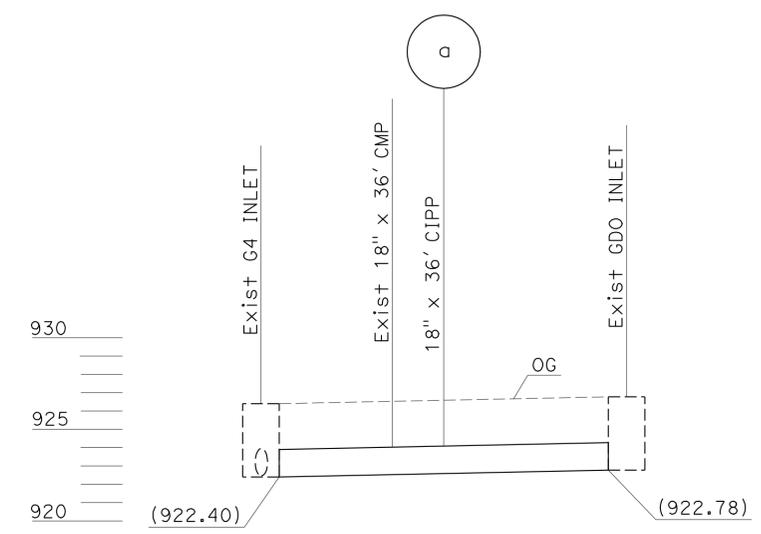
 1-25-13
 REGISTERED CIVIL ENGINEER DATE
 2-25-13
 PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER
 DAVE BHALLA
 No. 34350
 Exp. 9-30-13
 CIVIL
 STATE OF CALIFORNIA



SCALE: Horiz 1" = 10'
Vert 1" = 5'



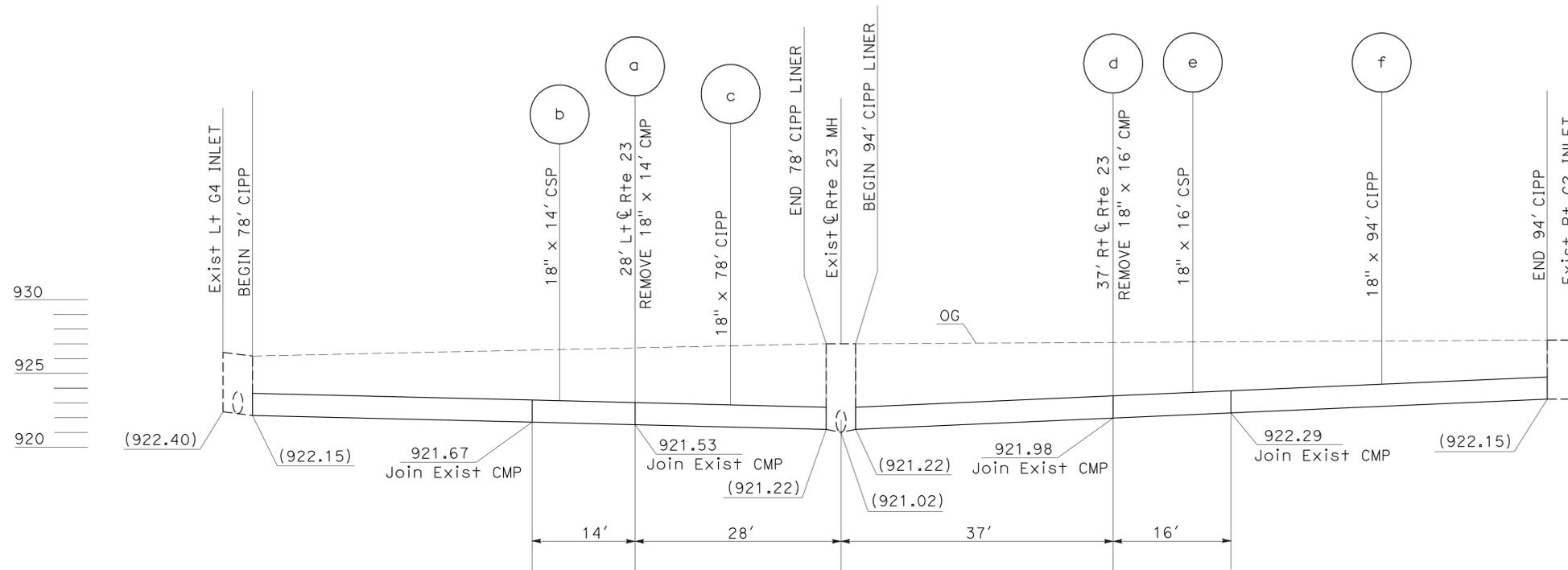
SCALE: Horiz 1" = 10'
Vert 1" = 5'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 HYDRAULICS
 FUNCTIONAL SUPERVISOR JAI PAUL
 CALCULATED/DESIGNED BY CHECKED BY
 DARREN TRINH DAVE BHALLA
 REVISED BY DATE REVISED
 REVISIONS

DRAINAGE PROFILES
SCALE AS SHOWN

DP-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23,34	Var	10	36
			1-25-13		
REGISTERED CIVIL ENGINEER			DATE		
2-25-13			PLANS APPROVAL DATE		
<small>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.</small>					



3

SCALE: Horiz 1" = 10'
Vert 1" = 5'

DRAINAGE PROFILE

SCALE AS SHOWN

DP-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION 	FUNCTIONAL SUPERVISOR JAI PAUL	CALCULATED/DESIGNED BY CHECKED BY	REVISIONS REVISION BY DATE
DARREN TRINH DAVE BHALLA			



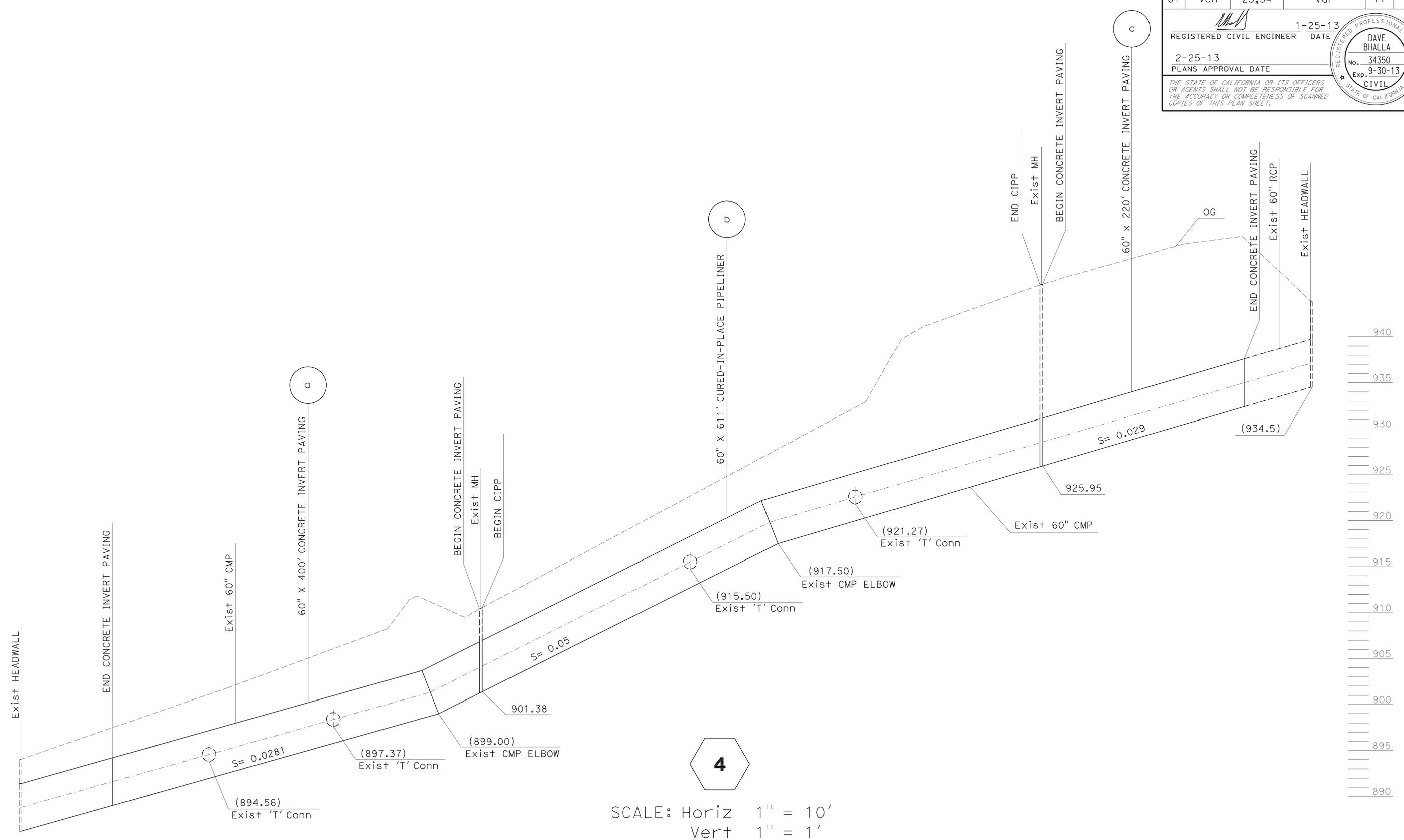
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans HYDRAULICS
 FUNCTIONAL SUPERVISOR: JAI PAUL
 CALCULATED/DESIGNED BY: DARREN TRINH
 CHECKED BY: DAVE BHALLA
 REVISOR: DAVE BHALLA
 DATE: 2-25-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23,34	Var	11	36

1-25-13
 REGISTERED CIVIL ENGINEER DATE
 2-25-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 DAVE BHALLA
 No. 34350
 Exp. 9-30-13
 CIVIL
 STATE OF CALIFORNIA

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SCALE: Horiz 1" = 10'
 Vert 1" = 1'

DRAINAGE PROFILE
 SCALE AS SHOWN

DP-3

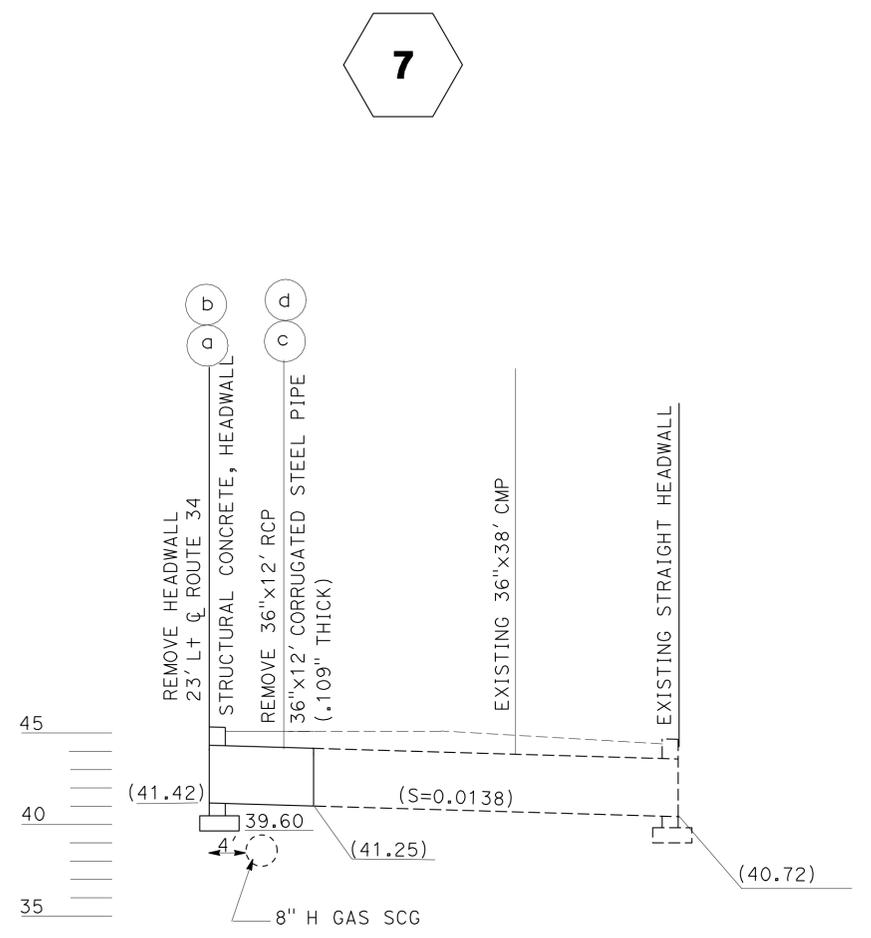
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	12	36

Larry Wiering 02-05-13
 REGISTERED CIVIL ENGINEER DATE

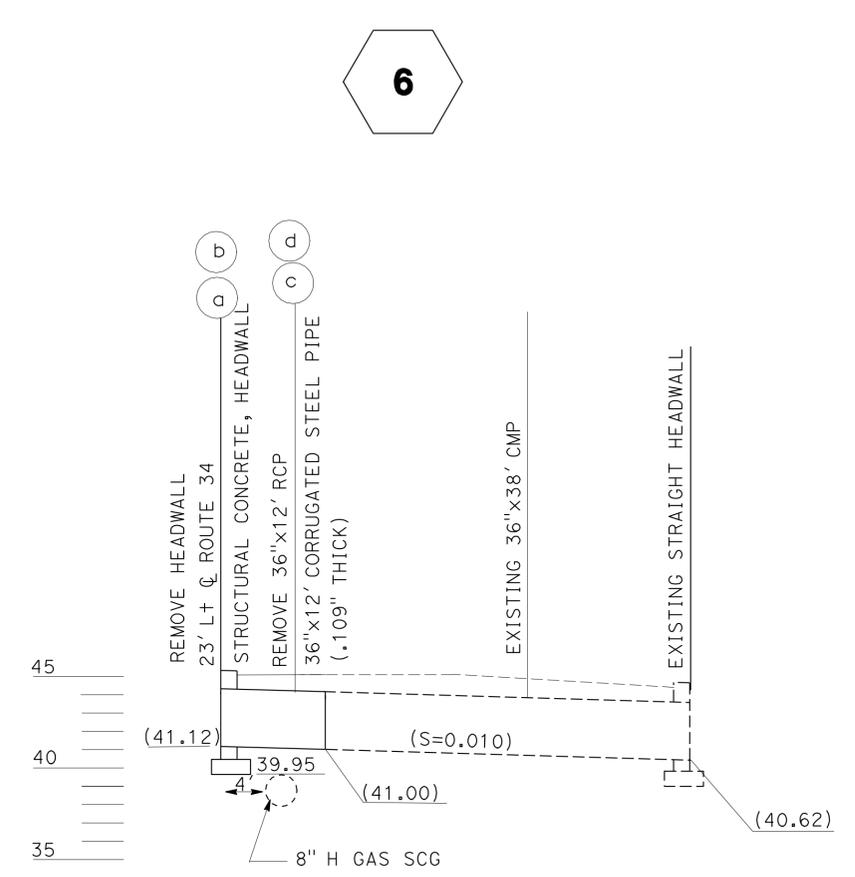
2-25-13
 PLANS APPROVAL DATE

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans MAINTENANCE ENGINEERING	LARRY WIERING	CHECKED BY	DATE
		GEHAN ATTALAH	REVISOR
		LARRY WIERING	DATE



LOCATION 4
PM 8.24



LOCATION 3
PM 8.21

ROUTE 34

DRAINAGE PROFILE
 SCALE: Horiz 1" = 10'
 Vert 1" = 5'

DP-4

x
x
x
x
x
x
x

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION Caltrans MAINTENANCE ENGINEERING	FUNCTIONAL SUPERVISOR GODSON OKEREKE	CALCULATED/DESIGNED BY CHECKED BY	REVISOR BY DATE REVISED
GEHAN ATTALAH	LARRY WIERING		

ROUTE	DRAINAGE PLAN SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT No.	H OR V		REMOVE PIPE (N)	18" CORRUGATED STEEL PIPE (.064" THICK)	CLEANING, INSPECTING AND PREPARING CULVERT	18" CURED-IN-PLACE PIPELINER	60" CURED-IN-PLACE PIPELINER	CONCRETE INVERT PAVING	REMOVE HEADWALL	STRUCTURAL CONCRETE, HEADWALL	36" CORRUGATED STEEL PIPE (.109" THICK)	DESCRIPTION
				ft	V										
23	D-1	1	a				1.28	98							CIPP
	D-1	2	a				0.47	36							CIPP
	D-1	3	a			14									REMOVE 18" CMP (N)
			b	3.7		14									18" CSP
			c				1.02	78							CIPP
			d			16									REMOVE 18" CMP (N)
			e	3.6		16									18" CSP
	D-1	4	a				1.23	94							CIPP
			b				29.1		55						CONCRETE INVERT PAVING
		c				88.80		611						CIPP	
		c				31.97		25						CONCRETE INVERT PAVING	
34	D-2	5	a						45						18"x45' CIPP
			b				1								
	D-2	6	a								1				REMOVE EXISTING HEADWALL
			b									2			STRAIGHT HEADWALL
			c			12									REMOVE 36"x12' RCP (N)
			d										12		36"x12' CSP
	D-2	7	a								1				REMOVE EXISTING HEADWALL
			b										2		STRAIGHT HEADWALL
			c			12									REMOVE 36"x12' RCP (N)
			d										12		36"x12' CSP
D-2	8	a								1				REMOVE BROKEN HEADWALL	
		b										2		HEADWALL TYPE D	
SHEET TOTAL						54	30	155	351	611	80	3	6	24	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	13	36

Larry Wiering 2-5-13
 REGISTERED CIVIL ENGINEER DATE

LARRY WIERING
 No. C41247
 Exp. 3-31-13
 CIVIL

2-25-13
PLANS APPROVAL DATE

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

ABBREVIATION:
(N) NOT A SEPERATE PAY ITEM, FOR INFORMATION ONLY.

DRAINAGE QUANTITIES

DQ-1

NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE
- FOR POSITIVE LOCATION INFORMATION SEE SHEET U-2

OWNERSHIP:

- GAS = SOUTHERN CALIFORNIA GAS (SCG)
- WATER = PLEASANT VALLEY WATER
- PHONE = AT&T CALIFORNIA
- POWER = SEC SOUTHERN CALIFORNIA EDISON (SCE)
- OIL = TEXACO OIL COMPANY

ABBREVIATIONS:

- 4" or 4"M = 4" MEDIUM PRESSURE STEEL GAS MAIN
- 4" PEM = 4" MEDIUM PRESSURE PLASTIC GAS MAIN < 60PSI
- 4" H = 4" HIGH PRESSURE STEEL GAS MAIN > 60PSI
- E/W = EAST WEST OF PROPERTY LINE
- CSG = CASING
- BUR = BURIED
- PH = POTHOLE
- OXN = OXNARD
- Wtr = WATER
- N/S = NORTH SOUTH OF PROPERTY LINE
- PA = POLYETHYLENE ALDYL - A
- oh = OVERHEAD
- SL = SLEEVE

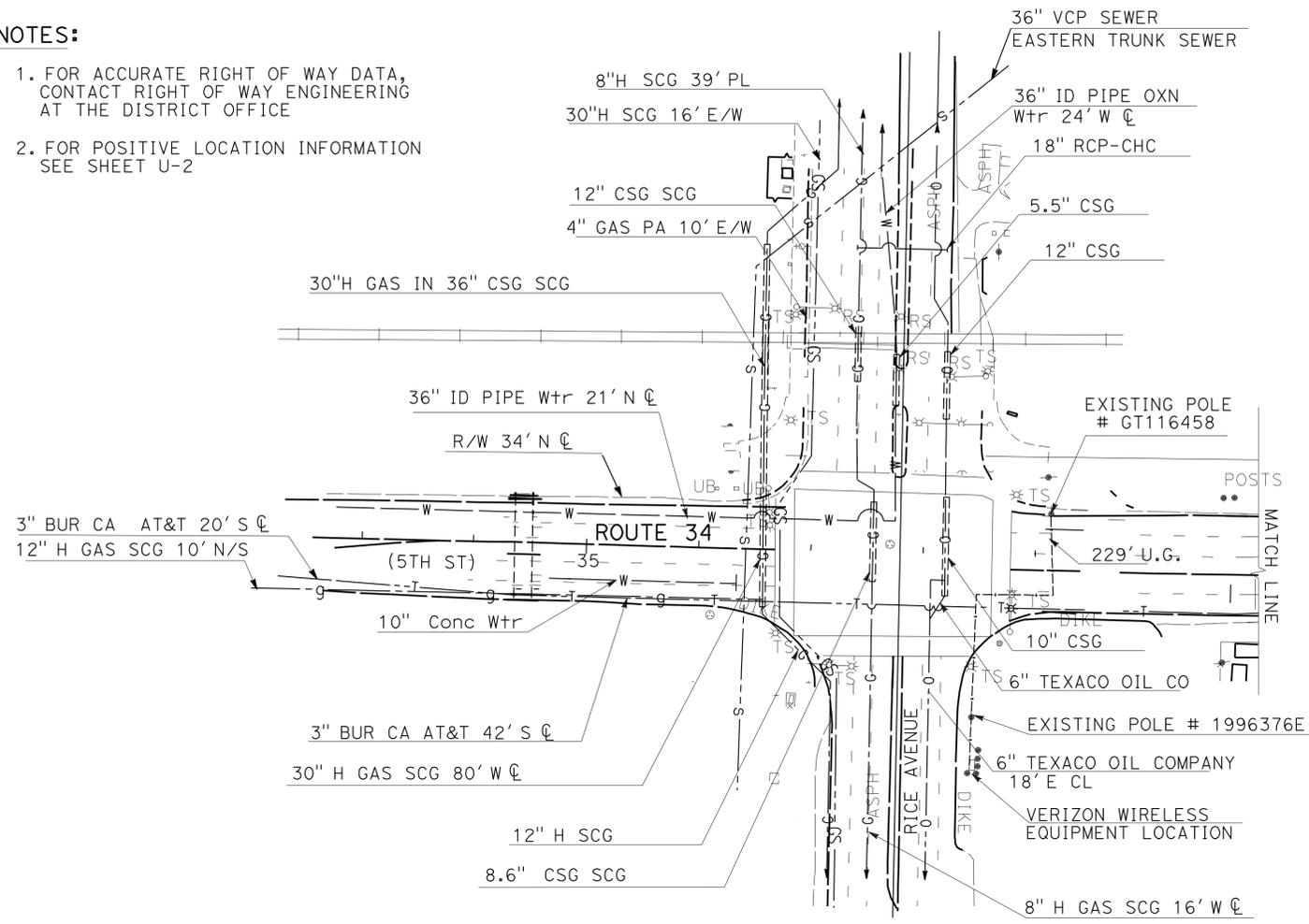
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	14	36

M. Celina Aviles 2-5-13
 REGISTERED CIVIL ENGINEER DATE

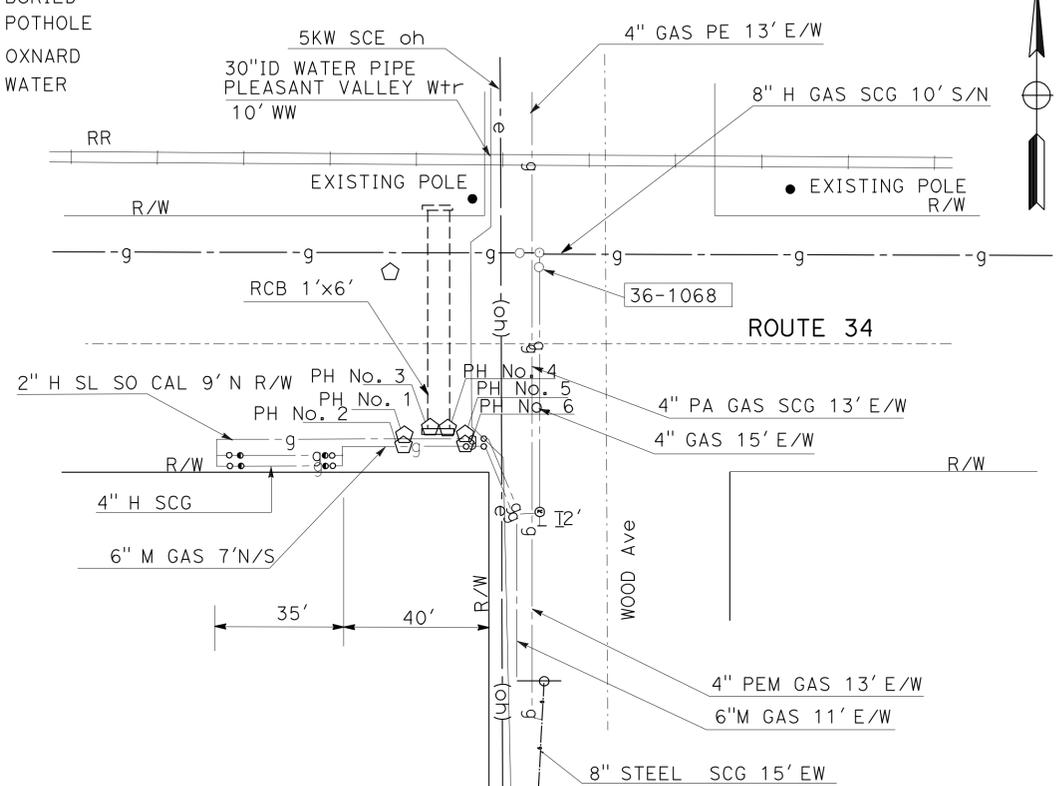
2-25-13
 PLANS APPROVAL DATE

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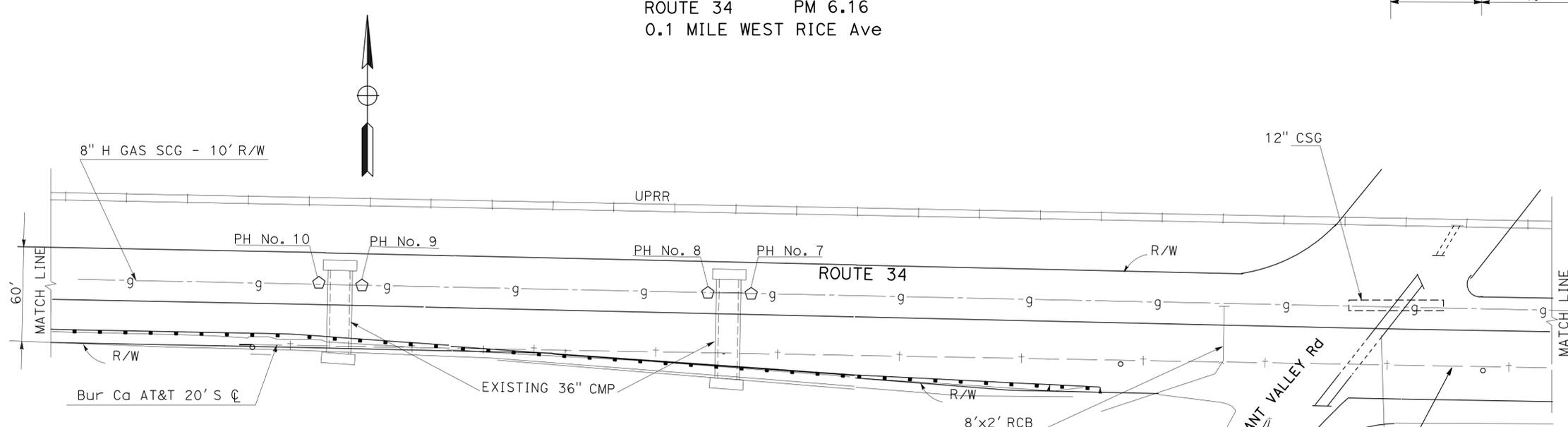
REGISTERED PROFESSIONAL ENGINEER
 N. CELINA AVILES
 No. 57106
 Exp. 12-31-13
 CIVIL



LOCATION No. 2
 ROUTE 34 PM 6.16
 0.1 MILE WEST RICE Ave



LOCATION No. 5
 PM 8.92
 REPLACE BROKEN HEADWALL



LOCATION No. 3
 ROUTE 34 PM 8.21
 0.23 MILE WEST E PLEASANT VALLEY Rd

LOCATION No. 4
 ROUTE 34 PM 8.24
 0.2 MILE WEST E PLEASANT VALLEY Rd

UTILITY PLAN
 NO SCALE

U-1

APPROVED FOR UTILITY WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

REVISOR: GARY TOOR, MITRA VAHID
 DATE: [REDACTED]
 CALCULATED/DESIGNED BY: JERREL B KAM
 CHECKED BY: [REDACTED]

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **TRAFFIC DESIGN**
 FUNCTIONAL SUPERVISOR
 JERREL B KAM
 CALCULATED/DESIGNED BY
 CHECKED BY
 GARY TOOR
 MITRA VAHID
 REVISED BY
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	15	36

N. Celina Aviles 2-5-13
 REGISTERED CIVIL ENGINEER DATE

2-25-13
 PLANS APPROVAL DATE

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

POSITIVE LOCATION INFORMATION				
No.	NORTHING/EASTING	UTILITY COMPANY	SURFACE/ GROUND ELEVATION	DEPTH
PH No. 1	1895693.027 6230181.367	SOUTHERN CALIFORNIA GAS (SCG)	47.817	3.64'
PH No. 2	1895691.817 6230181.272	SOUTHERN CALIFORNIA GAS (SCG)	47.749	3.85'
PH No. 3	1895695.284 6230184.842	SOUTHERN CALIFORNIA GAS (SCG)	48.536	2.75'
PH No. 4	1895695.116 6230189.540	SOUTHERN CALIFORNIA GAS (SCG)	48.459	2.69'
PH No. 5	1895692.567 6230190.728	SOUTHERN CALIFORNIA GAS (SCG)	47.035	3.17'
PH No. 6	1895691.598 6230190.750	SOUTHERN CALIFORNIA GAS (SCG)	46.745	2.92'
PH No. 7	1895803.993 6226797.480	SOUTHERN CALIFORNIA GAS (SCG)	45.653	6.15'
PH No. 8	1895804.145 6226788.375	SOUTHERN CALIFORNIA GAS (SCG)	45.441	5.76'
PH No. 9	1895810.515 6226493.116	SOUTHERN CALIFORNIA GAS (SCG)	45.542	5.72'
PH No. 10	1895810.410 6226481.962	SOUTHERN CALIFORNIA GAS (SCG)	45.567	5.48'

UTILITY PLAN

U-2

LAST REVISION | DATE PLOTTED => 25-FEB-2013
 02-25-13 | TIME PLOTTED => 13:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	16	36

Larry Wiering
REGISTERED CIVIL ENGINEER DATE _____
2-25-13
PLANS APPROVAL DATE _____

REGISTERED PROFESSIONAL ENGINEER
LARRY WIERING
No. 41247
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.

NOTES:

- "TRAFFIC FINES DOUBLED IN WORK ZONES" SIGNS SHALL BE PLACED APPROXIMATELY 500 FEET IN ADVANCE OF "ROAD WORK AHEAD" SIGNS OR AS DETERMINED BY THE ENGINEER.
- LOCATIONS OF CONSTRUCTION AREA SIGNS AS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN NUMBER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	QUANTITY
(A)	W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 4"	6
(B)	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	4
(C)	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	9
(D)	G20-2	48" x 24"	END ROAD WORK	1 - 4" x 6"	4
(E)	C40A (CA)	108" x 42"	TRAFFIC FINES DOUBLED IN WORK ZONES	2 - 4" x 6"	2
(F)	C40A (CA)	144" x 60"	TRAFFIC FINES DOUBLED IN WORK ZONES	2 - 6" x 6"	2

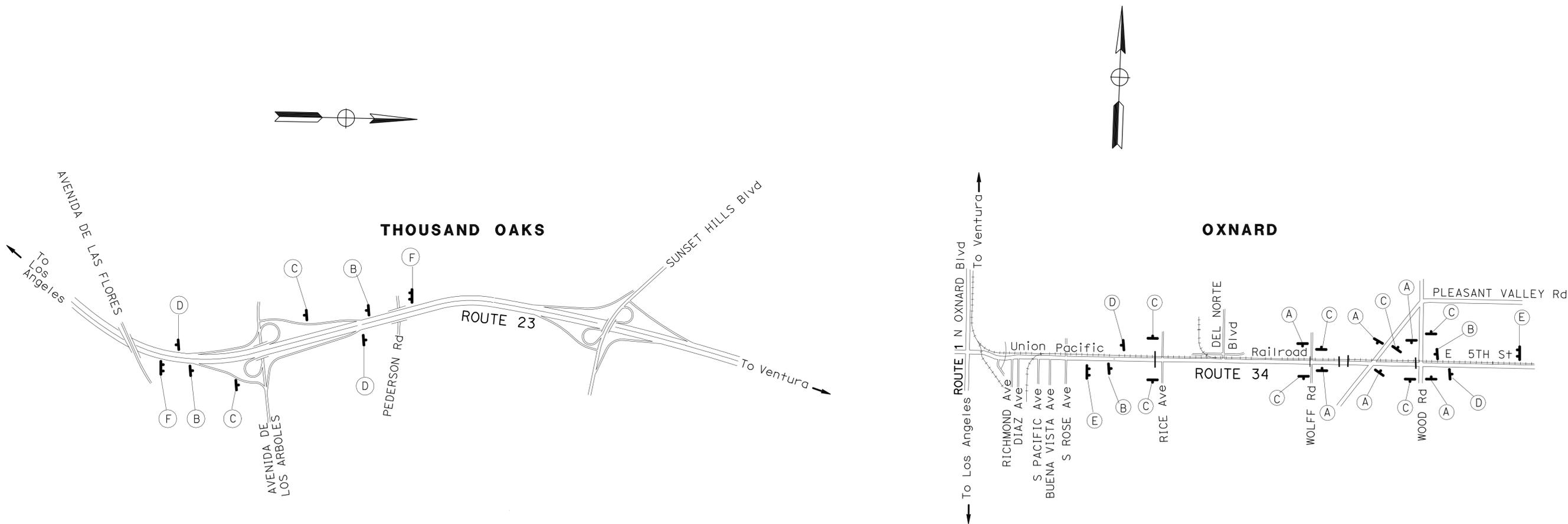
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR
GODSON OKEREKE

CALCULATED/DESIGNED BY
CHECKED BY

GEHAN ATTALAH
LARRY WIERING

REVISED BY
DATE REVISED



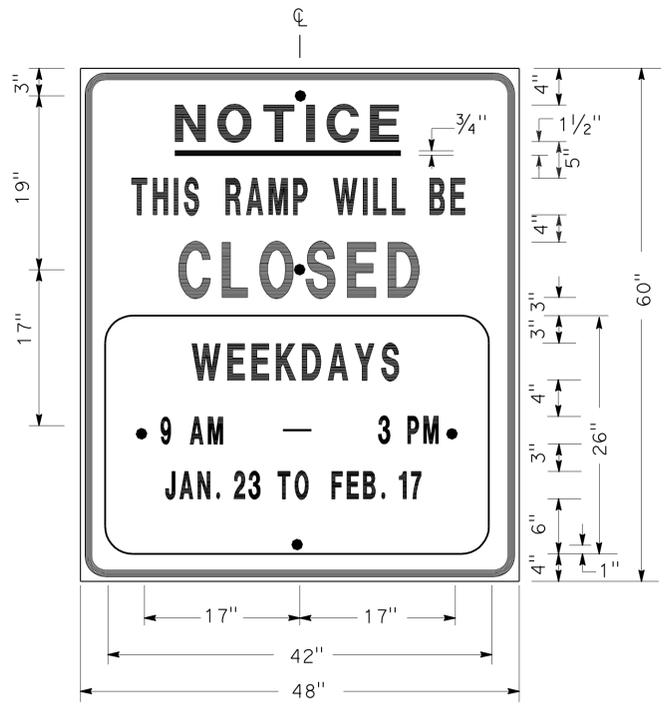
CONSTRUCTION AREA SIGNS
NO SCALE

CS-1

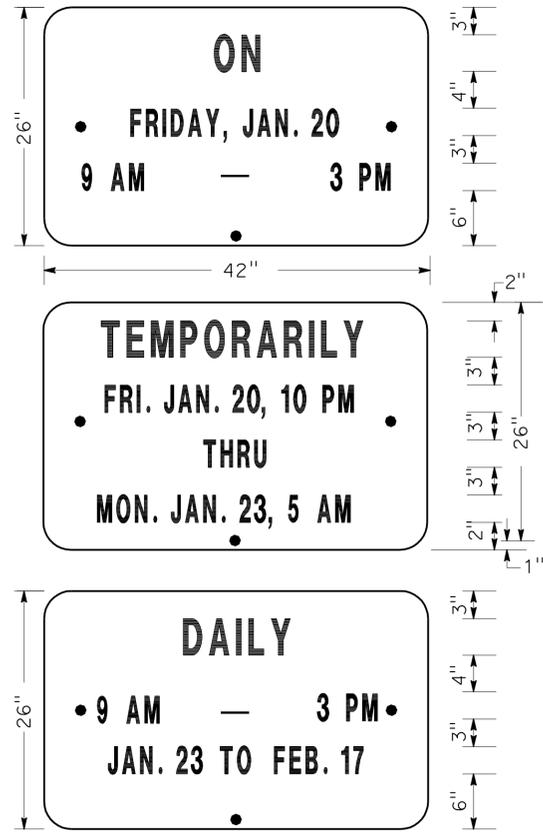
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	17	36

4/16/12
 REGISTERED CIVIL ENGINEER DATE
 2-25-13
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



SIGN SP-1



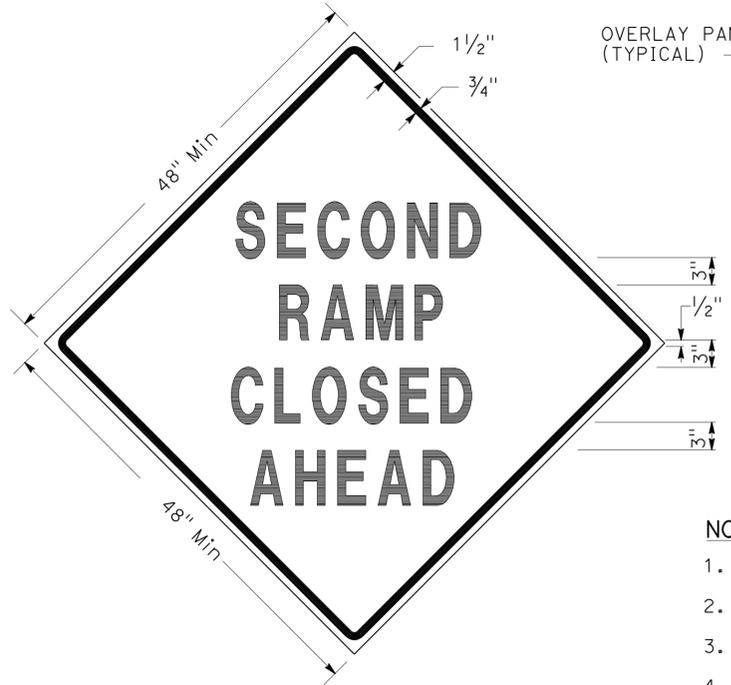
ALTERNATE OVERLAY PANELS (TYPICAL)

- NOTES:**(SIGN SP-1)
- SIGNS SHALL HAVE ORANGE RETROREFLECTORIZED BACKGROUND WITH BLACK BORDER AND LETTERS.
 - BOLT HOLES SHALL BE 3/8" DIAMETER.
 - BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
 - SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND.

SIZE	BORDER	MARGIN	LETTER SIZE					CORNER RADIUS
	WIDTH	WIDTH	LINE 1	LINE 2*	LINE 3	LINE 4	LINE 5,6 & 7*	
48"x60"	1 1/4"	3/4"	4E	4D	6E	4D		3"
42"x26"	OVERLAY						3D	1 1/2"

* CONDENSED SPACING IF NECESSARY

SPECIAL ADVANCE NOTICE PUBLICITY SIGN



SIGN SP-3

SPECIAL SIGN FOR EXIT RAMP CLOSURES

- NOTES:** (SIGNS SP-3 & SP-5)
- LETTERS - 6" SERIES D.
 - LETTERS AND BORDERS - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
 - BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
 - SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND.



SIGN SP-5



SIGN SP-4

- NOTES:** (SIGN SP-4)
- LETTERS - 6" SERIES C.
 - LETTERS AND BORDERS - BLACK ON RETROREFLECTORIZED WHITE BACKGROUND.
 - BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
 - SIGNS SHALL BE PLACED AT RAMP ENTRANCES IN ADDITION TO SIGNS POSTED IN ACCORDANCE WITH STANDARD PLAN TCS-4.

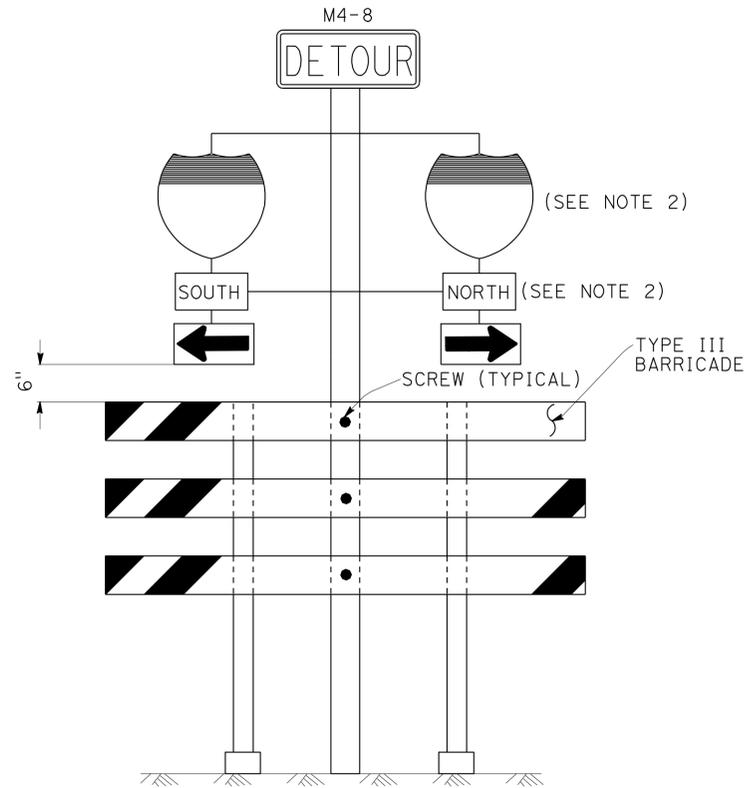
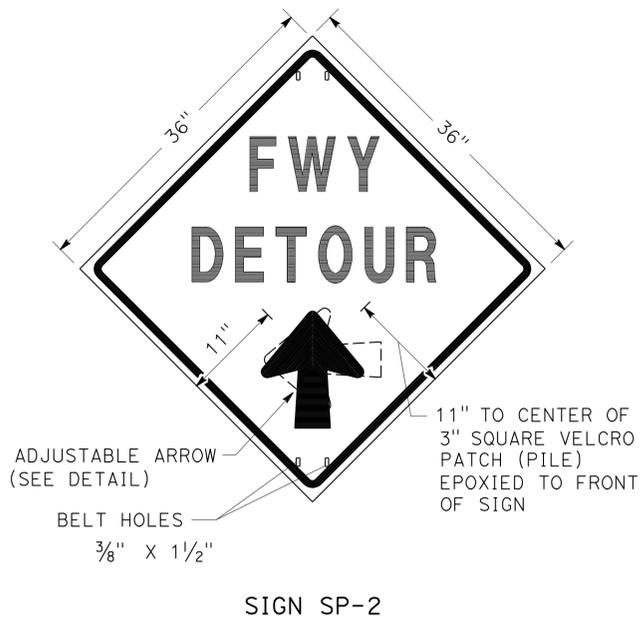
SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES

**TRAFFIC HANDLING DETAILS
 TRAFFIC CONTROL SYSTEM
 FOR RAMP CLOSURES, DETOUR SIGNS
 AND MISCELLANEOUS DETAILS**

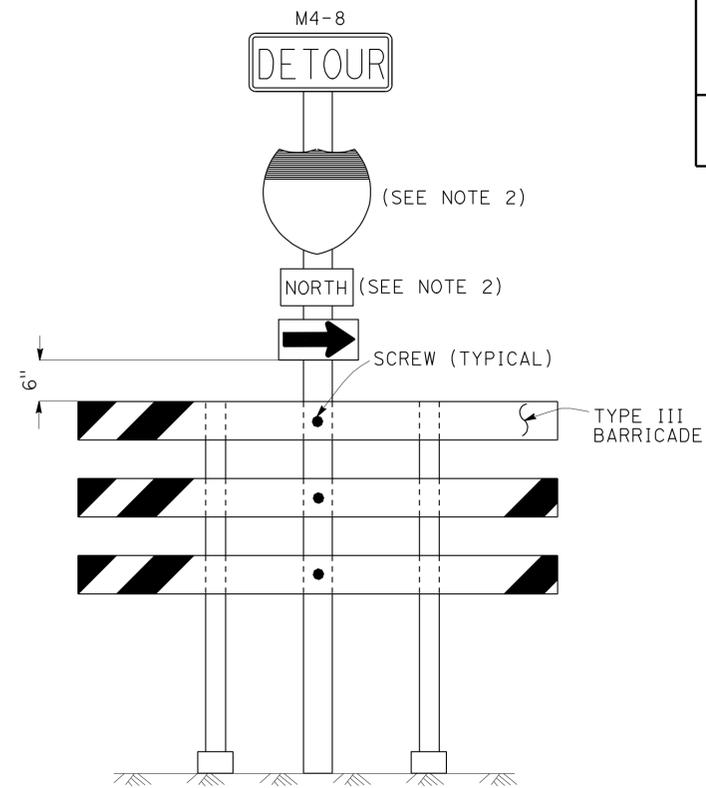
SHEET 1 OF 2

NO SCALE

THD-1



SIGN SP-6 (SEE NOTE 1)



SIGN SP-7 (SEE NOTE 1)

NOTES: (SIGN SP-2)

- LETTERS -6" SERIES E.
- LETTERS, BORDER AND ARROW - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
- BASE MATERIAL FOR SIGNS AND ARROWS SHALL BE ALUMINUM (MINIMUM 0.06").
- BELTS (LUGGAGE STRAPS) SHALL BE 1" WIDE BY 48" LONG, MADE OF COTTON OR POLYPROPYLENE WEB MATERIAL.
- SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND EXCEPT AS OTHERWISE SHOWN ON OTHER TRAFFIC HANDLING DETAILS PLANS.

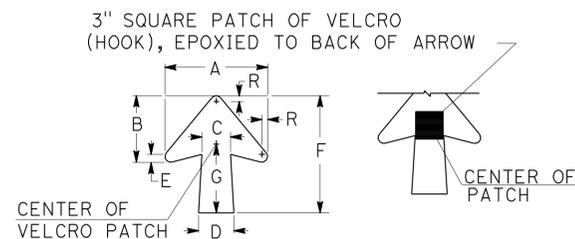
ABBREVIATION

(CA) CALIFORNIA CODE

NOTES: (SIGNS SP-6 & SP-7)

- IN LIEU OF PLACING SIGNS ON TYPE III BARRICADES, SIGNS, INCLUDING POSTS, MAY BE PLACED INTO THE GROUND OR FASTENED ONTO ELECTROLIERS.
- USE APPROPRIATE ROUTE SHIELD [G26-2(CA), G27-2(CA), G28-2(CA)] AND CARDINAL DIRECTION [NORTH (M3-1), SOUTH (M3-3), EAST (M3-2), WEST (M3-4)]

SPECIAL PORTABLE FREEWAY DETOUR SIGNS



DIMENSIONS							
A	B	C	D	E	F	G	R
11 1/4"	7 1/4"	3 1/8"	4"	7/8"	13"	7 1/2"	5/8"

SPECIAL PORTABLE FREEWAY DETOUR SIGN

ADJUSTABLE ARROW DETAIL

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR RAMP CLOSURES, DETOUR SIGNS
AND MISCELLANEOUS DETAILS
SHEET 2 OF 2
 NO SCALE

THD-2

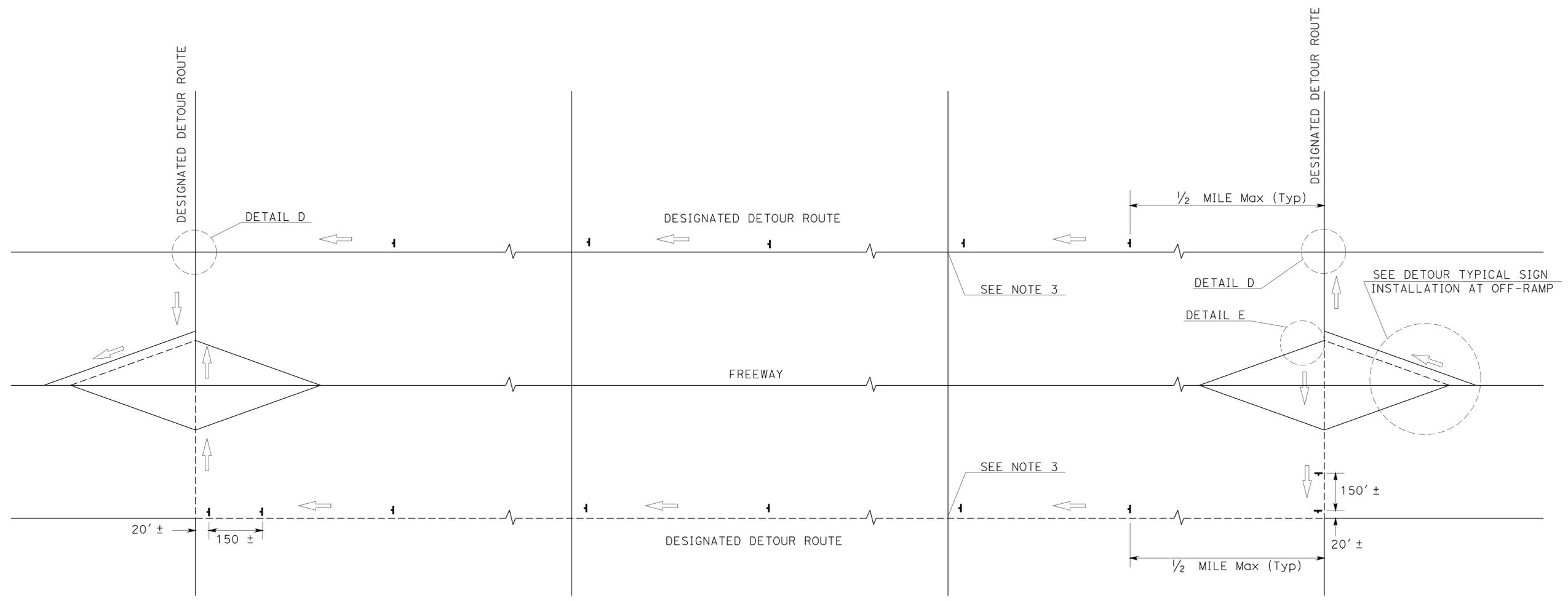
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DTM
 FUNCTIONAL SUPERVISOR JOHN YANG
 CHECKED BY
 CALCULATED/DESIGNED BY
 REVISIONS BY JC DATE REVISED 7/10
 DESIGNED BY ALBERT K YU JOCELYN C CHIANG

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	19	36

Albert K. Yu 4/16/12
 REGISTERED CIVIL ENGINEER DATE
 2-25-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 ALBERT K. YU
 No. 43220
 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.



TYPICAL DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

- LEGEND**
- ┆ TEMPORARY SIGN (SP-2)
 - AND/OR — DESIGNATED DETOUR ROUTE
 - DIRECTION OF TRAVEL

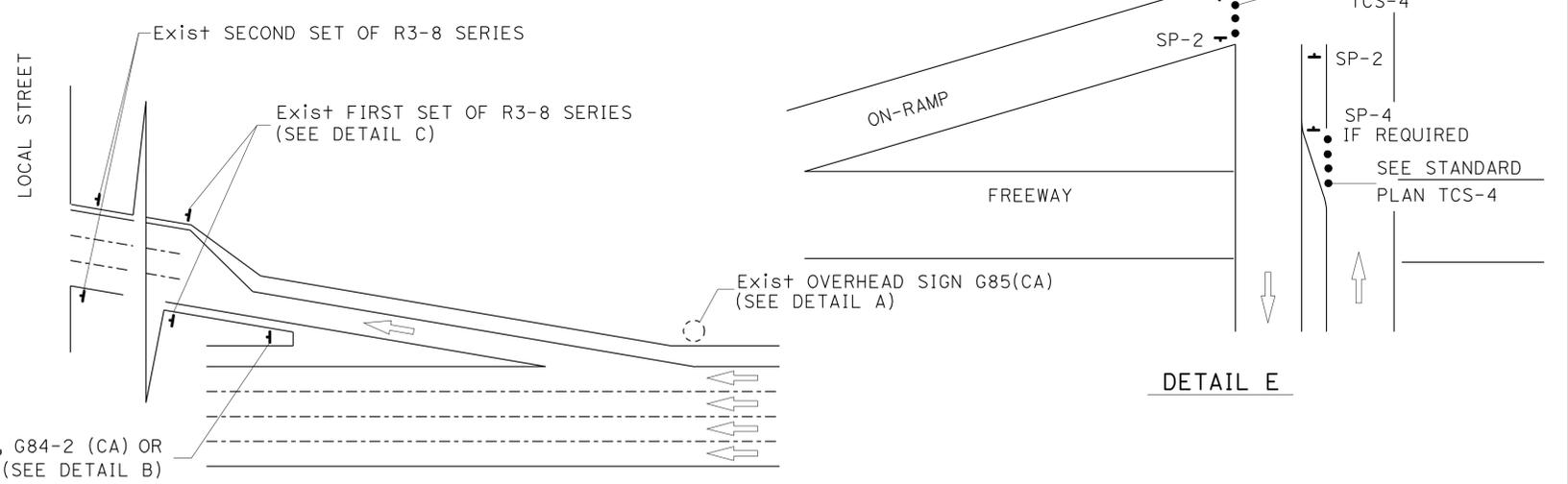
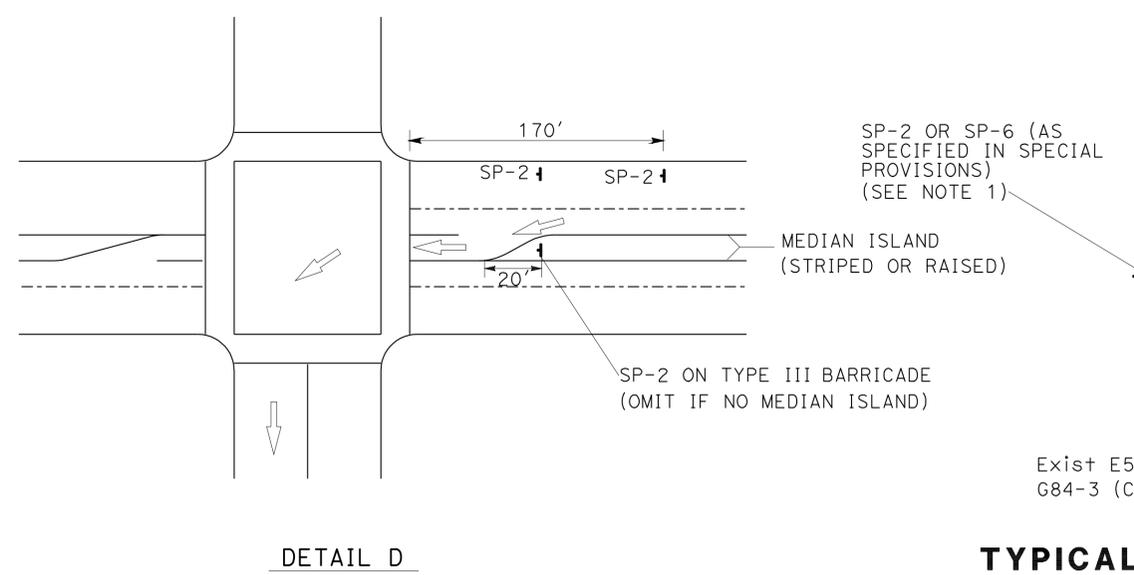
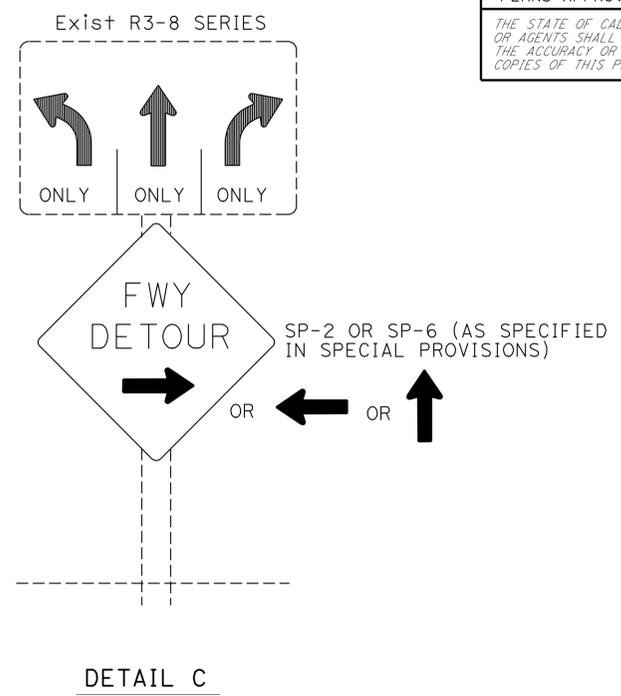
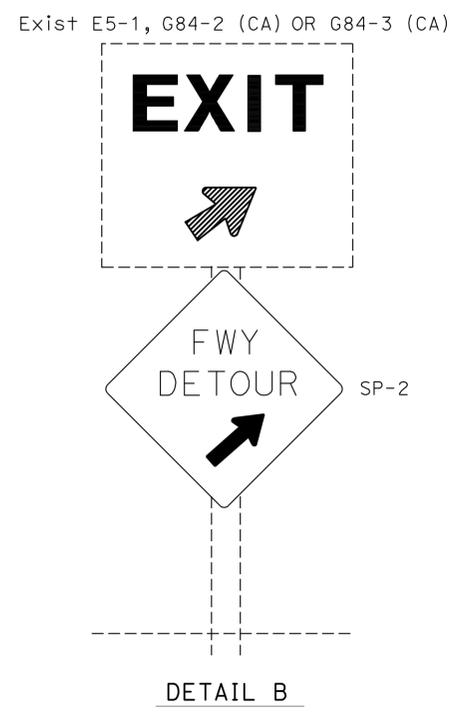
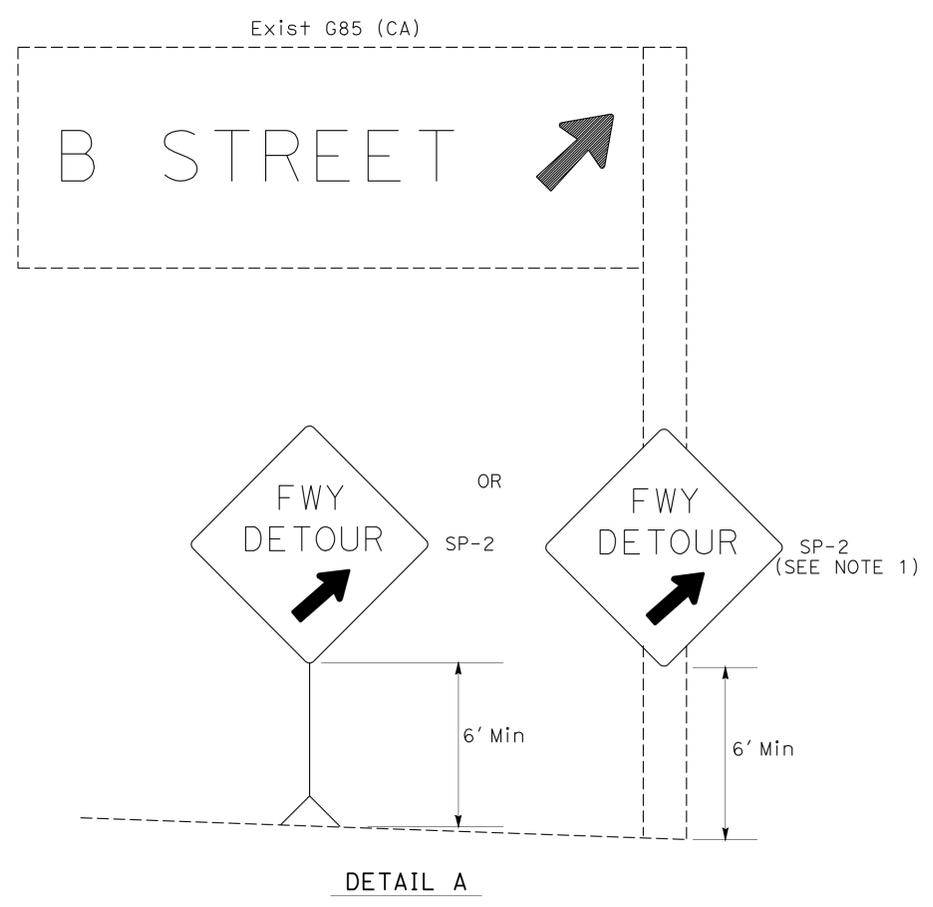
- NOTES:**
1. SP-2 SIGNS SHALL NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
 2. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
 3. SP-2 SIGNS SHALL BE POSTED AT SIGNALIZED INTERSECTIONS ALONG THE DESIGNATED DETOUR ROUTE OR 1/2 MILE MAXIMUM APART.

**TRAFFIC HANDLING DETAILS
 TRAFFIC CONTROL SYSTEM
 FOR DETOUR SIGN INSTALLATION
 ALONG DESIGNATED DETOUR ROUTE
 SHEET 1 OF 2
 NO SCALE**

THD-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DT M
 FUNCTIONAL SUPERVISOR: JOHN YANG
 CHECKED BY: JOCELYN C CHIANG
 DESIGNED BY: ALBERT K YU
 REVISIONS: JC 7/10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	20	36
<i>Albert K. Yu</i> 4/16/12 REGISTERED CIVIL ENGINEER DATE			ALBERT K. YU No. 43220 Exp 3/31/14 CIVIL STATE OF CALIFORNIA		
2-25-13 PLANS APPROVAL DATE					
<small>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.</small>					



TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP

- NOTES:**
1. TEMPORARY SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POSTS, OR SIGN POSTS.
 2. OMIT DETAIL A AND DETAIL B FOR FULL FREEWAY CLOSURES.
 3. SEE TRAFFIC HANDLING DETAILS PLAN-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS AND MISCELLANEOUS DETAILS SHEET 2 OF 2 FOR SP-6.

ABBREVIATIONS
 (CA) CALIFORNIA CODE

- LEGENDS**
- TRAFFIC CONE
 - ↑ TEMPORARY SIGN
 - DIRECTION OF TRAVEL
 - EXISTING OVERHEAD SIGN

**TRAFFIC HANDLING DETAILS
 TRAFFIC CONTROL SYSTEM
 FOR DETOUR SIGN INSTALLATION
 ALONG DESIGNATED DETOUR ROUTE
 SHEET 2 OF 2
 NO SCALE**

THD-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DT M
 FUNCTIONAL SUPERVISOR JOHN YANG
 CHECKED BY JOCELYN C CHIANG
 REVISIONS: 8/10
 DESIGNED BY ALBERT K YU
 DATE 8/10



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	21	36

Larry Wiering 2-5-13
 REGISTERED CIVIL ENGINEER DATE

2-25-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
LARRY WIERING
 No. 41247
 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.

ROADWAY QUANTITIES

LOC No.	ROUTE	PM	LOCATION	ROADWAY EXCAVATION	CLASS 2 AGGREGATE BASE	CLASS 3 AGGREGATE BASE	LEAN CONCRETE BASE RAPID SETTING	HOT MIX ASPHALT (TYPE A)	DOWEL BAR (DRILL AND BOND)	INDIVIDUAL SLAB REPLACEMENT	LEAN CONCRETE BASE	SEAL ISOLATION JOINT	BOND BREAKER
				CY	CY	CY	CY	TON	EA	CY	CY	LF	SQYD
①	23	R6.1	0.03 MILE NORTH OF AVENIDA DE LOS ARBOLES UC SOUTHBOUND OFF-RAMP AVENIDA DE LOS ARBOLES (SINKHOLE AREA)	1,300	2,000	10	5		130	30		150	100
②	34	6.16	EASTBOUND AND WESTBOUND										
③	34	8.21	WESTBOUND			1		5			3		
④	34	8.24	WESTBOUND			1		5			3		
⑤	34	8.92	EAST FIFTH STREET AND WOOD Rd JUNCTION										
TOTAL				1,300	2,000	12	5	10	130	30	6	150	100

SUMMARY OF QUANTITIES

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	22	36
			2-5-13		
LICENSED LANDSCAPE ARCHITECT					
2-25-13			PLANS APPROVAL DATE		
					
<small>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.</small>					

PLANT LIST AND PLANTING SPECIFICATIONS

PLANT GROUP	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY EACH	HOLE SIZE (INCH)		BASIN TYPE	IRON SULFATE ①	SOIL AMEND ①	COMMERCIAL FERTILIZER ①		BASIN MULCH ①	STAKING	PLANTING LIMITS							REMARKS
							Di	DEPTH				PLANTING	PLT ESTB			MINIMUM DISTANCE (ft) FROM					ON CENTER (ft)		
																ETW	Pvm+	FENCE	WALL	PAVED DITCH		EARTH DITCH	
U	1		<u>QUERCUS LOBATA</u>	VALLEY OAK	No. 15	5	③	③	II	-	-	-	-	1 CF	④	30	-	20	20	20	22	⑦	TREE

APPLICABLE WHEN CIRCLED:

- ① - QUANTITIES SHOWN ARE "PER PLANT" UNLESS SHOWN AS SQFT OR SQYD APPLICATION RATES
- 2 - BASIN MULCH IS INCLUDED WITH MULCH QUANTITIES SHOWN ON PLANTING PLAN
- ③ - SUFFICIENT TO RECEIVE ROOT BALL AND AMENDMENTS IF REQUIRED
- ④ - SEE DETAIL
- 5 - SEE SPECIAL PROVISIONS
- 6 - SEE STANDARD SPECIFICATIONS
- ⑦ - AS SHOWN ON PLANS
- 8 - UNLESS OTHERWISE SHOWN ON PLANS
- 9 - FOLIAGE PROTECTOR REQUIRED
- 10 - ROOT PROTECTOR REQUIRED
- 11 - ROOT BARRIER REQUIRED
- 12 - STATE-FURNISHED

LEGEND:

-  : MULCH (2" THICK)
-  : Exist SYCAMORE TREE
-  : Exist ELM TREE
-  : Exist PINE TREE
-  : Exist OAK TREE

NOTE:

UNDERLINED PORTIONS OF BOTANICAL NAME INDICATE ABBREVIATIONS USED ON PLANTING PLANS.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 JAI PAUL
 CALCULATED/DESIGNED BY
 CHECKED BY
 NAMSIK LEE
 JENNIFER TAIRA
 REVISED BY
 DATE REVISED

PLANT LIST
PL-1

LAST REVISION | DATE PLOTTED => 25-FEB-2013 | TIME PLOTTED => 1:3:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	23	36

2-5-13
 LICENSED LANDSCAPE ARCHITECT
 2-25-13
 PLANS APPROVAL DATE

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



NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. IF THE REMOVAL OF VALLEY OAKS IS REQUIRED, THEN A 1:1 REPLANTING RATIO SHOULD BE ADHERED TO.
3. UNLABELED SUPPLY LINES DOWNSTREAM OF THE VALVE SHALL BE 1" UNLESS OTHERWISE NOTED.
4. * : ADD SPRINKLER HEADS TO EXIST SYSTEM.
5. EXIST SPRINKLER HEADS ARE NOT SHOWN ON THE EXIST LATERAL SUPPLY LINES.

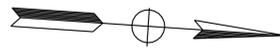
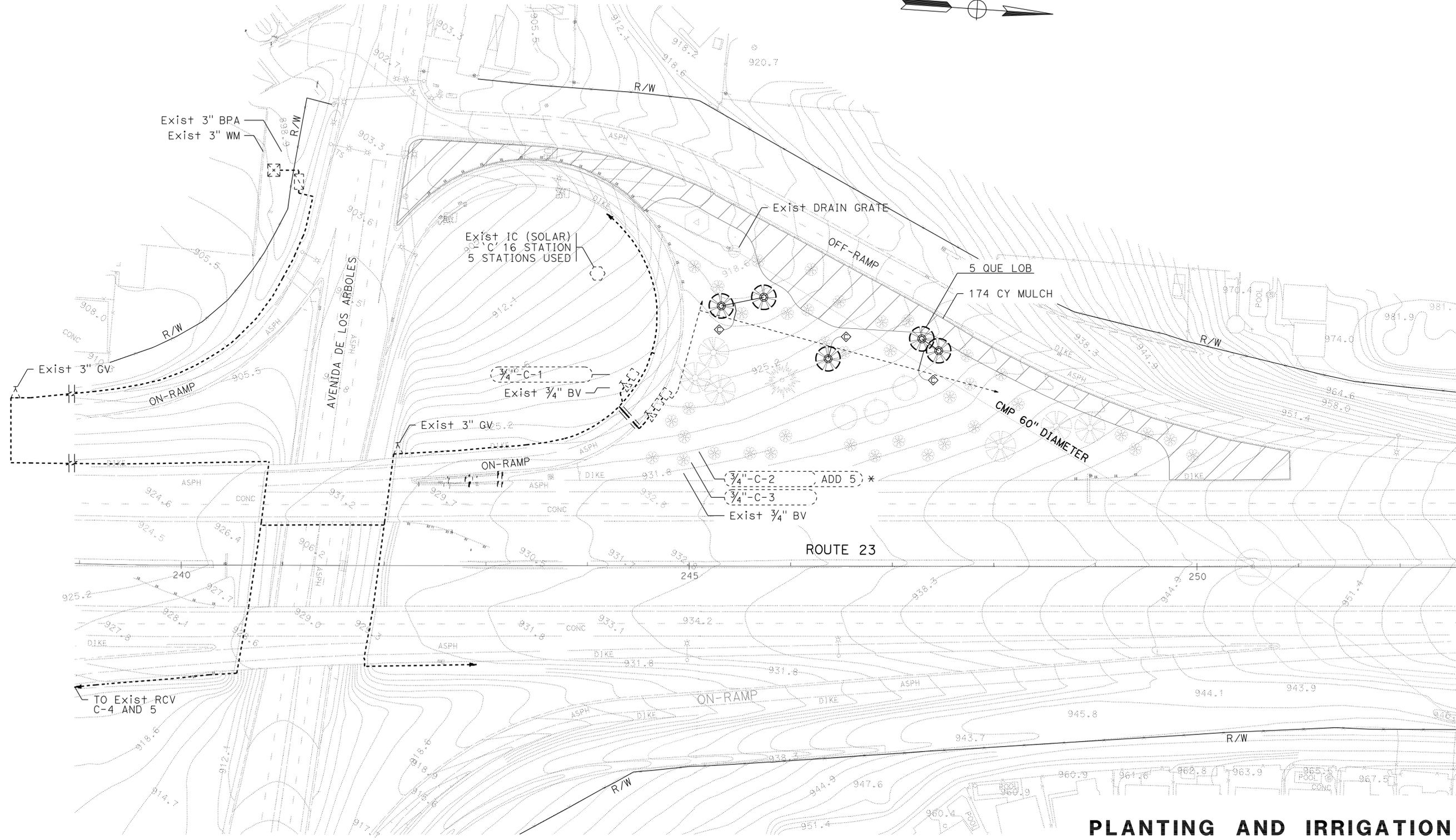
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
 JAI PAUL

CALCULATED/DESIGNED BY
 CHECKED BY

NAMSIK LEE
 JENNIFER TAIRA

REVISED BY
 DATE REVISED



PLANTING AND IRRIGATION PLAN
 SCALE 1" = 50'
PI-1

APPROVED FOR PLANTING AND IRRIGATION WORK ONLY

SPRINKLER SCHEDULE

SYMBOL	TYPE	DESCRIPTION	SPRAY PATTERN	OPERATING PRESSURE (PSI)	PRESSURE COMPENSATING	PLUS/MINUS 5%				MATERIAL	NOZZLE SIZE (INCH)	INLET CONNECTION (NPT INCH)	POSITIVE-LOCKING ADJ ARC STOP	BACKSPASH PREVENTER	DIFFUSER PIN	DISTANCE CONTROL FLAP	ADJ DISCHARGE	RISER					REMARKS				
						DISCHARGE		RADIUS (F+)	WIDTH x LENGTH (F+)									TYPE	MATERIAL		SIZE (IPS INCH)	HEIGHT (INCH)		FLOW SHUTOFF DEVICE			
						GALLONS PER MINUTE (GPM)	GALLONS PER HOUR (GPH)												PLASTIC	GALVANIZED					SWING JOINT (TYPE) ⑤	RISER SUPPORT	SPRINKLER PROTECTOR (TYPE)
⊙	C-2 (MOD)	FLOOD BUBBLER	F	20-90	X	0.5	-	-	-	PL	-	1/2	-	-	-	-	-	⊙	X	-	1/2	⊙	-	⊙	-	-	FOR TREES

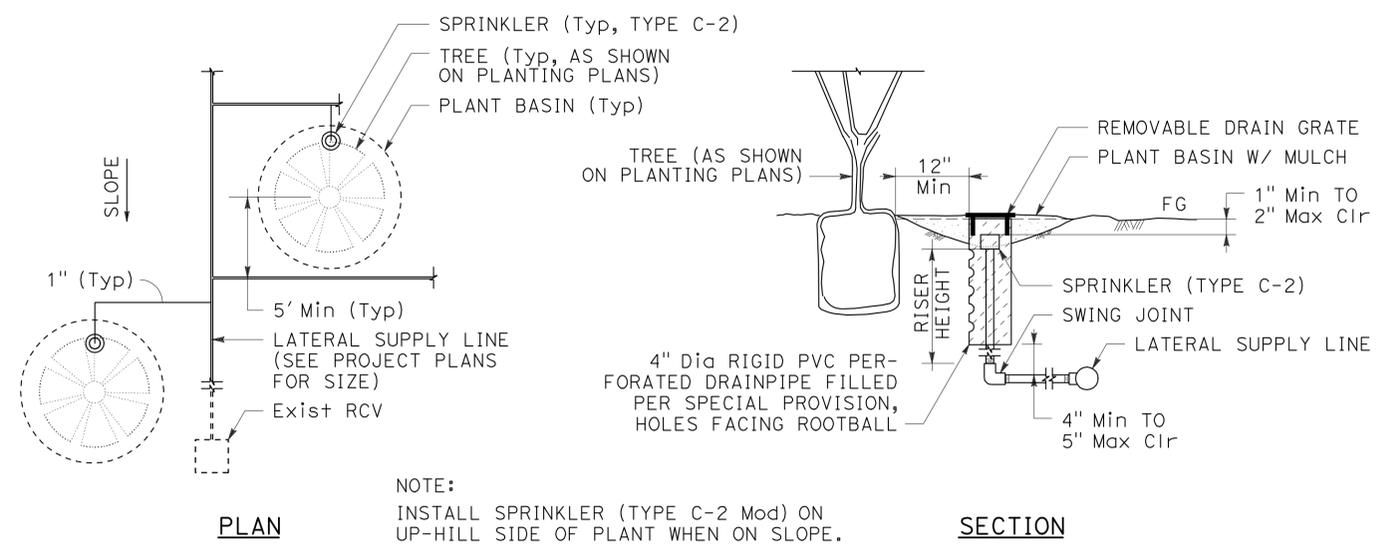
X IN BOX DENOTES REQUIREMENT

APPLICABLE WHEN CIRCLED BELOW:

- 1 - See Special Provisions.
- 2 - If a pressure compensating device is specified, the discharge and radii shown reflect its use.
- 3 - Arc Stop shall be fitted with a nut and bolt.
- 4 - Vinyl-coated cast iron housing.
- ⑤ - Swing Joints required adjacent to shoulders, curbs, sidewalks, and dikes.
- 6 - Unless otherwise shown on plans.
- 7 - Provide flow shutoff devices along the roadway.
- ⑧ - Provide check valves (anti-drain valves) as required to prevent low head drainage.
- ⑨ - See detail.

ABBREVIATIONS

- | | |
|---------------------------|-------------------------------|
| F — full circle | F+ — feet/foot |
| P — part circle | GPM — gallons per minute |
| F/P — full/part circle | GPH — gallons per hour |
| Q — quarter circle | Adj — adjustable |
| T — third circle | PL — plastic |
| H — half circle | B/B — brass/bronze |
| TT — two third circle | B/PL — brass/plastic |
| TQ — three quarter circle | B/B/PL — brass/bronze/plastic |
| CST — center strip | NPT — national pipe thread |
| SST — side strip | IPS — iron pipe size |
| EST — end strip | PSI — pounds per square inch |



NOTE:
 INSTALL SPRINKLER (TYPE C-2 Mod) ON UP-HILL SIDE OF PLANT WHEN ON SLOPE.

SPRINKLER (TYPE C-2 MOD)

LANDSCAPE DETAILS
 NO SCALE

LD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT: JAI PAUL
 CALCULATED/DESIGNED BY: JAI PAUL
 CHECKED BY: JENNIFER TAIRA
 NAMSIK LEE
 REVISED BY: JENNIFER TAIRA
 DATE REVISED:

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 CONSULTANT - SENIOR LANDSCAPE ARCHITECT
 JAI PAUL
 NAMSİK LEE
 JENNIFER TAIRA
 REVISIONS BY
 DATE REVISIONS

SYMBOL:
 * : EXISTING VALVE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	25	36

2-5-13
 LICENSED LANDSCAPE ARCHITECT

2-25-13
 PLANS APPROVAL DATE

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

SUBTOTALS PER VALVE ON LATERAL SUPPLY SIDE OF CONTROL VALVE

DESCRIPTION	UNIT	VALVE OR ASSEMBLY NUMBER		SUBTOTALS	UNIT	DESCRIPTION
SPRINKLER TYPE						SPRINKLER TYPE
DIP						DIP
GSP						GSP
PLASTIC PIPE SUPPLY LINE						PLASTIC PIPE SUPPLY LINE
PR 315						PR 315
SCH 40						SCH 40
1"	LF	*C-2	130	130	LF	1"
C-2 (MOD)	EA		5	5	EA	C-2 (MOD)

DESCRIPTION	UNIT	VALVE OR ASSEMBLY NUMBER		SUBTOTALS	UNIT	DESCRIPTION
SPRINKLER TYPE						SPRINKLER TYPE
DIP						DIP
GSP						GSP
PLASTIC PIPE SUPPLY LINE						PLASTIC PIPE SUPPLY LINE
PR 315						PR 315
SCH 40						SCH 40

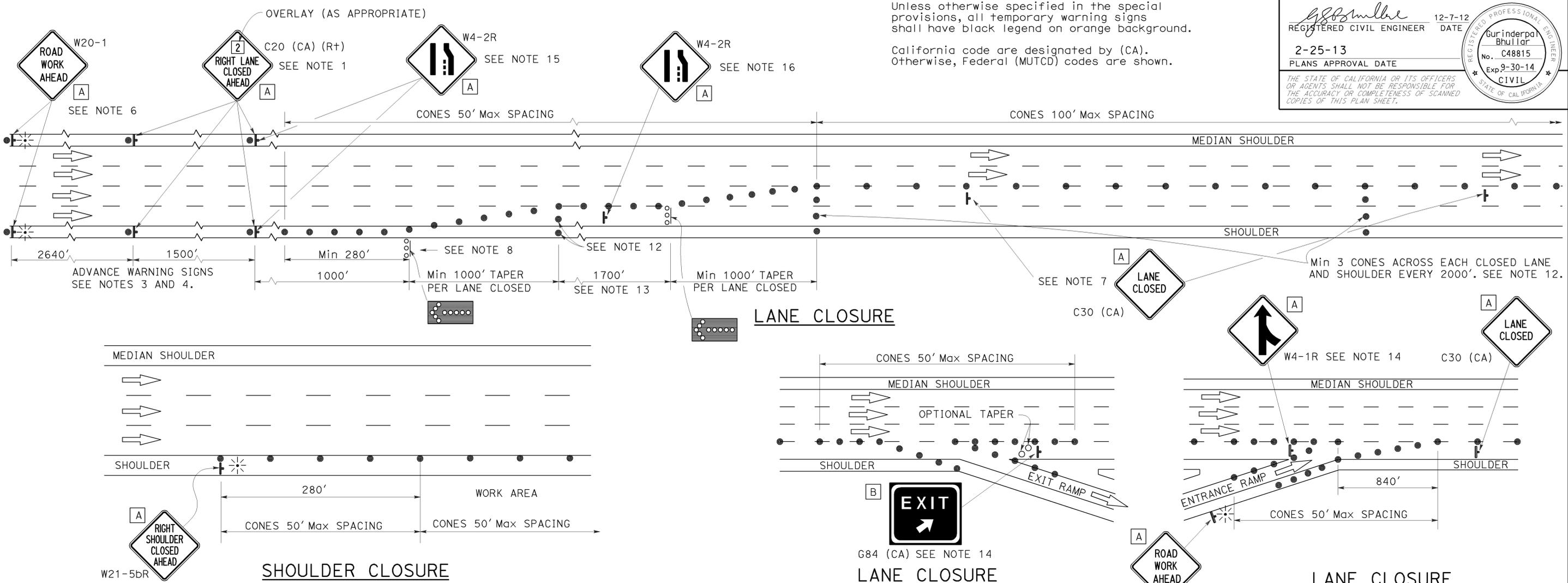
IRRIGATION QUANTITIES
IQ-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	27	36

<i>Gurinderpal Bhullar</i>	12-7-12
REGISTERED CIVIL ENGINEER	DATE
2-25-13	
PLANS APPROVAL DATE	

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

NOTES:
 Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.
 California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



- NOTES:**
- Median lane closures shall conform to the details for outside lane closures except that C20 (CA) (Lt) signs shall be used.
 - At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
 - Duplicate sign installations are not required:
 - On opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
 - 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.
 - A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
 - If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a C20 (CA) sign for the first advance warning sign.
 - Place a C30 (CA) sign every 2000' throughout length of lane closure.
 - One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
 - 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.
 - All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
 - Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
 - 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.
 - Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
 - Unless otherwise specified in the special provisions, the G84 (CA) and W4-1 signs shall be used as shown.
 - When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.
 - The W4-2 "LANE ENDS" symbol sign shown at this location is to be used where the W4-2 sign is used as advance warning as described in Note 15.

SIGN PANEL SIZE (Min)

A	48" x 48"
B	54" x 48"

LEGEND

●	TRAFFIC CONE
○	TRAFFIC CONE (OPTIONAL TAPER)
↑	TEMPORARY SIGN
⬢	FLASHING ARROW SIGN (FAS)
⬢	FAS SUPPORT OR TRAILER
⚡	PORTABLE FLASHING BEACON

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 FREEWAYS AND EXPRESSWAYS**
 NO SCALE
TCS-1

REVISOR: GEHAN ATTALAH, LARRY WIERING, GODSON OKEREKE
 CALCULATED/DESIGNED BY: [Blank]
 CHECKED BY: [Blank]
 FUNCTIONAL SUPERVISOR: [Blank]
 DEPARTMENT OF TRANSPORTATION - MAINTENANCE ENGINEERING

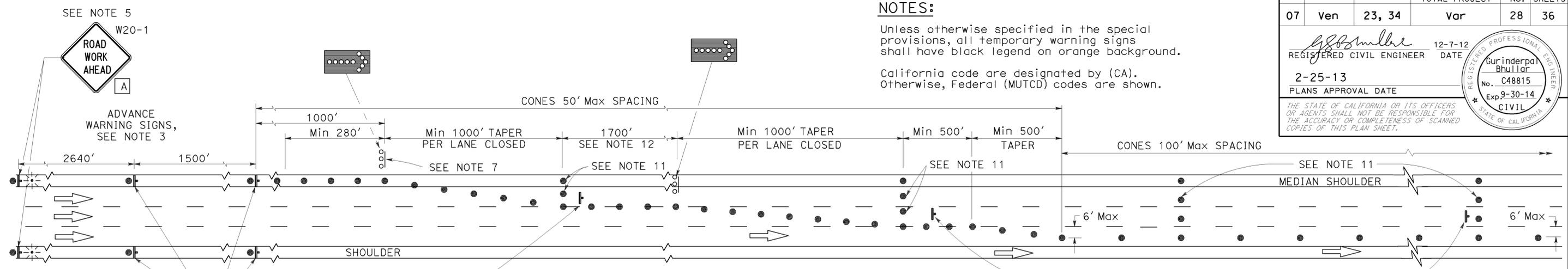
LAST REVISION: DATE PLOTTED => 10-06-2012
 TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	28	36

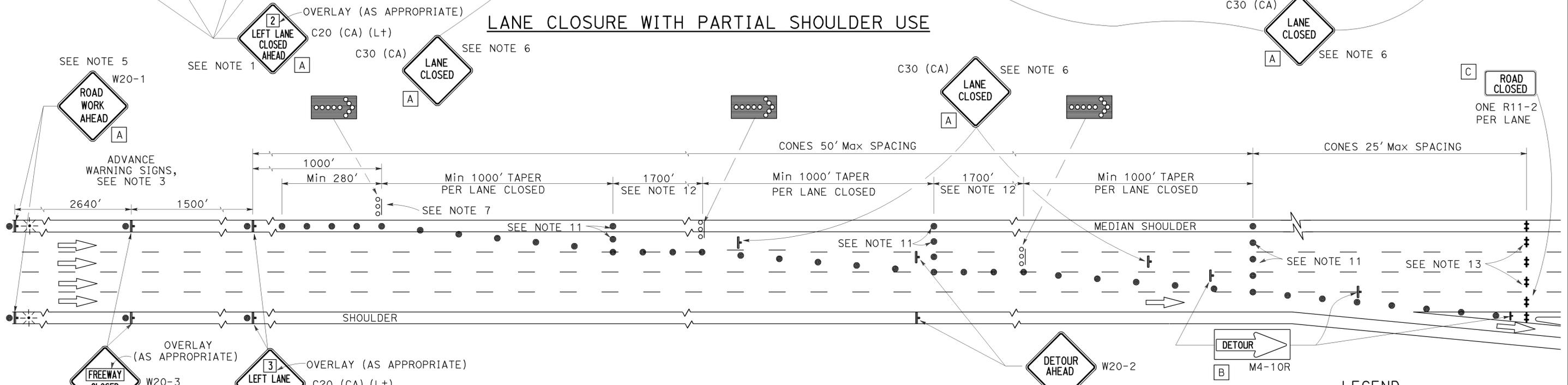
	
12-7-12 REGISTERED CIVIL ENGINEER DATE	2-25-13 PLANS APPROVAL DATE

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

NOTES:
 Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.
 California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



LANE CLOSURE WITH PARTIAL SHOULDER USE



COMPLETE CLOSURE

NOTES:

- Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details for inside lane closure except that C20 (CA) (Rt) signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
- 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.
- A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT ___ MILES", use a C20 (CA) sign for the first advance warning sign.
- Place a C30 (CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
- 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.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- 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 With Partial Shoulder Use" 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.
- Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
- A minimum of Two Type II barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- When specified in the special provisions, a W20-2 "DETOUR AHEAD" sign is to be used in place of the W20-3 "FREEWAY CLOSED AHEAD" sign.

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 18"
- C 48" x 30"

LEGEND

- TRAFFIC CONE
- † TEMPORARY SIGN
- ‡ BARRICADE
- ○ ○ ○ ○ FLASHING ARROW SIGN (FAS)
- ○ ○ ○ ○ FAS SUPPORT OR TRAILER
- ☼ PORTABLE FLASHING BEACON

TRAFFIC CONTROL SYSTEM FOR LANE AND COMPLETE CLOSURES ON FREEWAYS AND EXPRESSWAYS

NO SCALE

TCS-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 GEHAN ATTALAH
 LARRY WIERING
 GODSON OKEREKE
 MAINTENANCE ENGINEERING

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	30	36

12-7-12 DATE
 REGISTERED CIVIL ENGINEER
 2-25-13 PLANS APPROVAL DATE
 Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

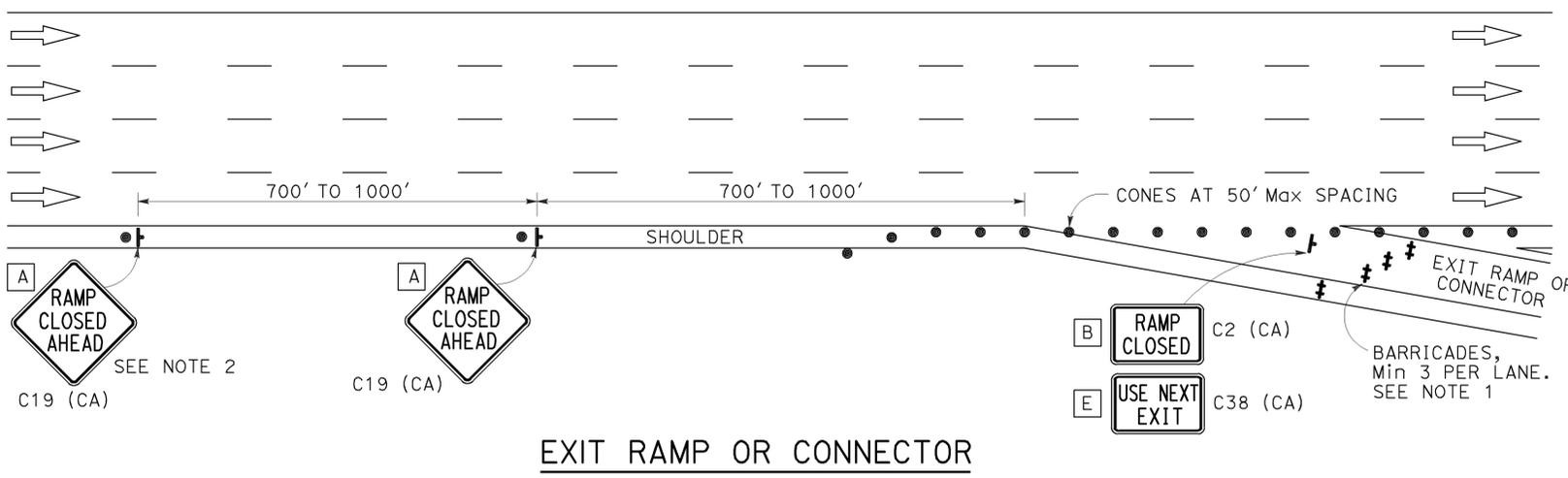
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND

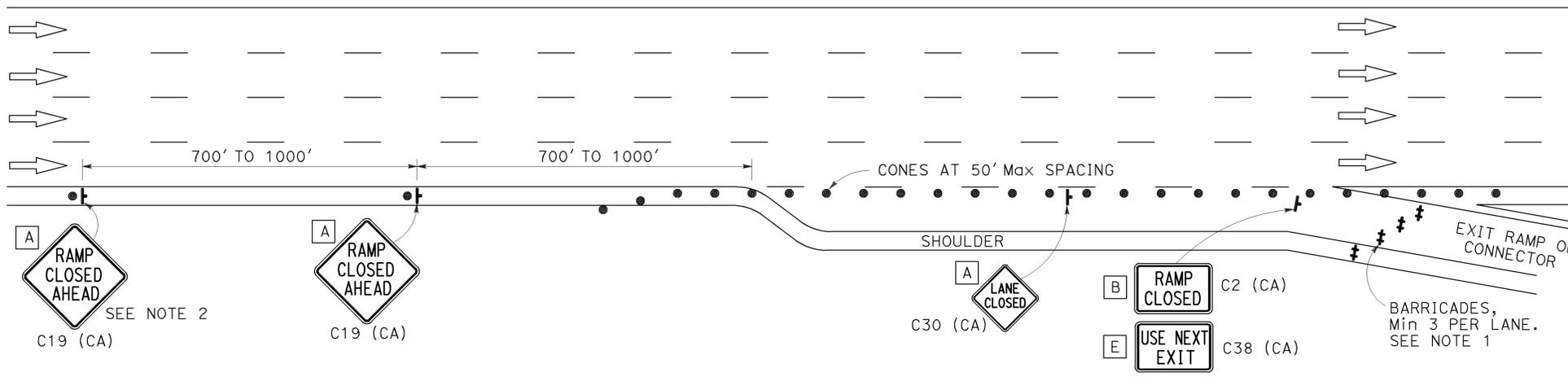
- TRAFFIC CONE
- † TEMPORARY SIGN
- ‡ BARRICADES

NOTES:

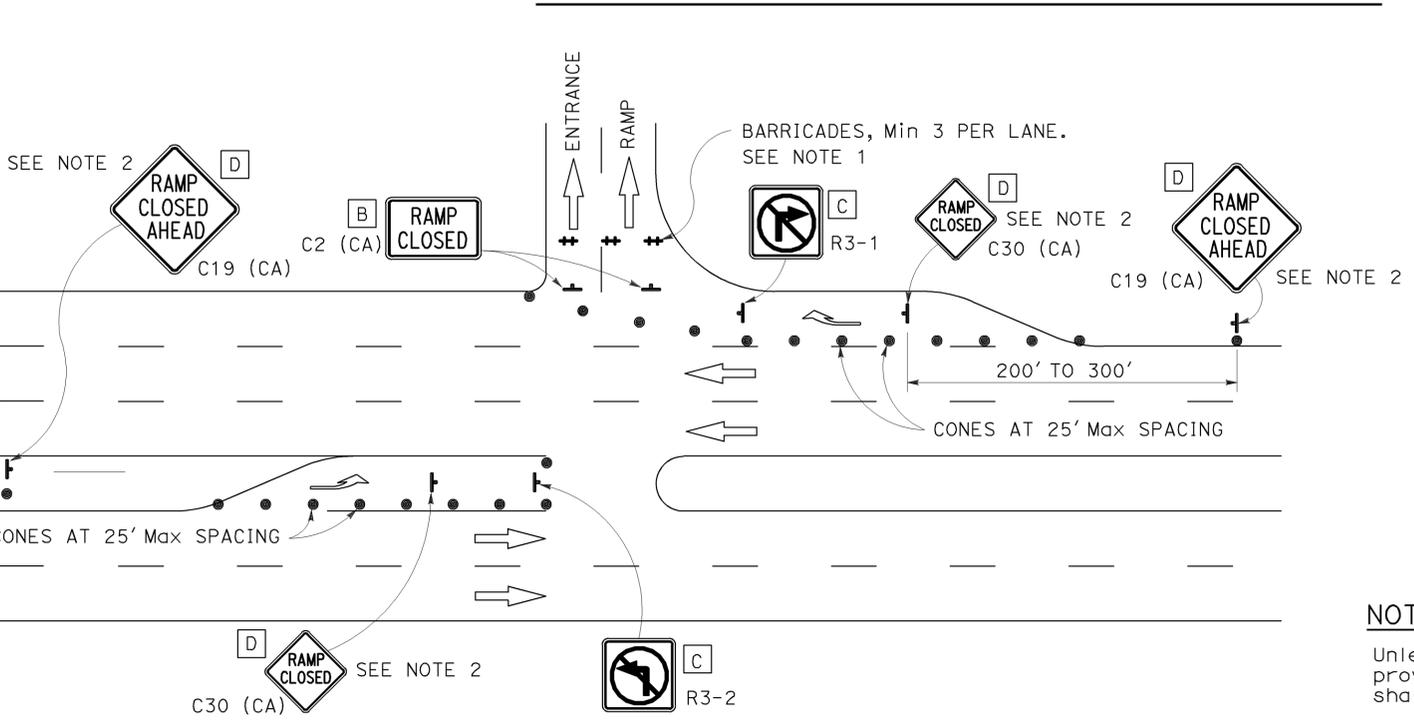
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19 (CA) "RAMP CLOSED AHEAD" and C30 (CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed 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.
- Each advance C19 (CA) "RAMP CLOSED AHEAD" sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color.
- All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
- At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
- The existing "EXIT" sign in the gore area shall be covered during ramp closures.



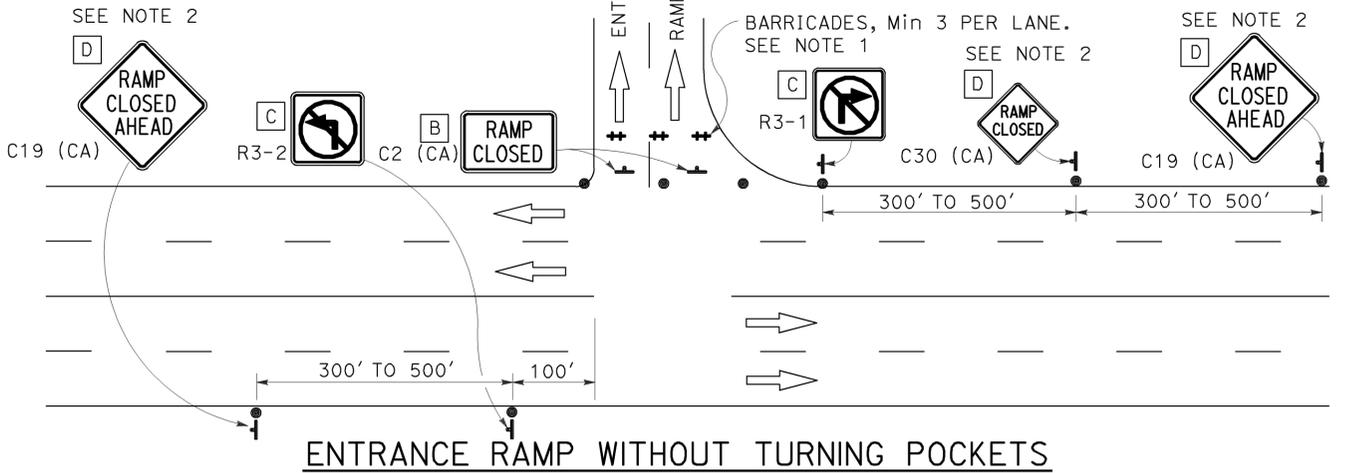
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

- Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.
- California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

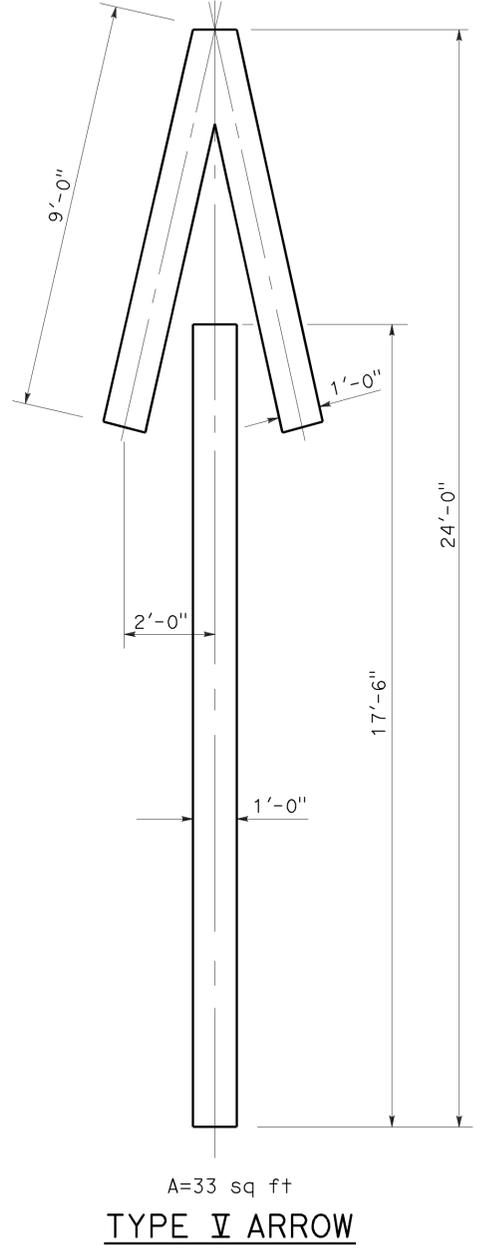
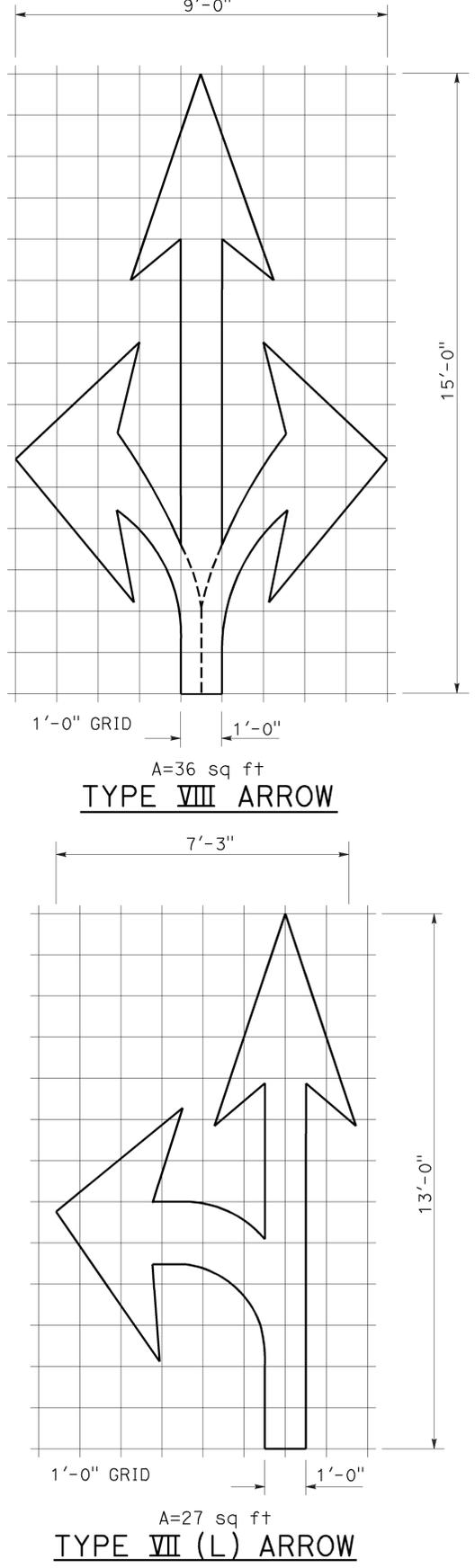
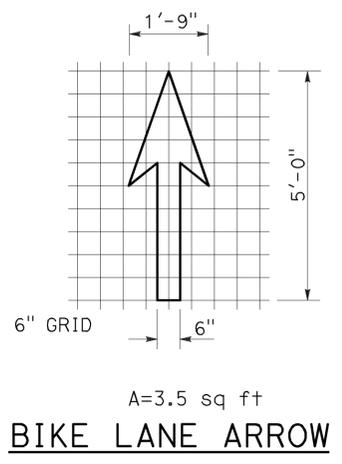
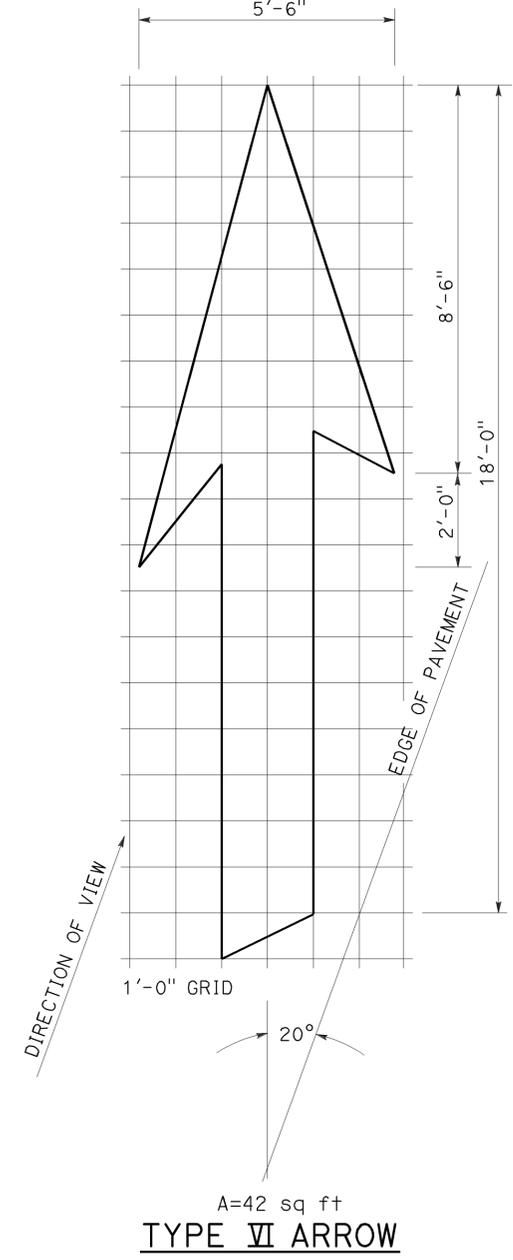
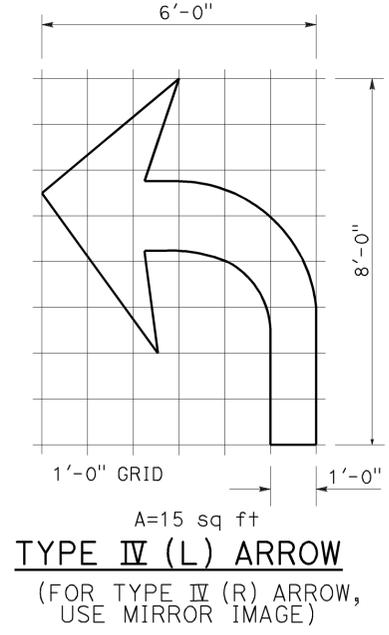
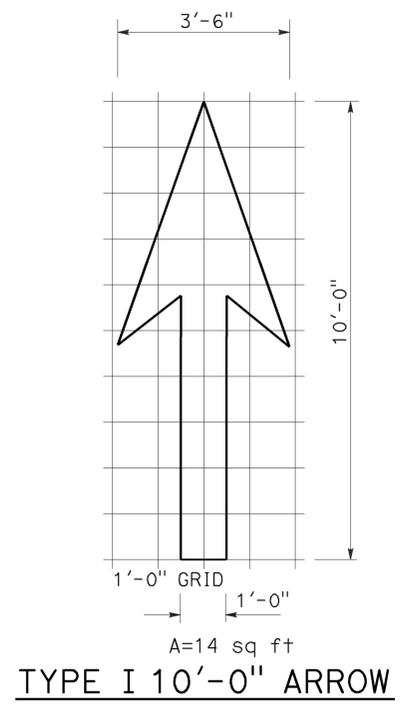
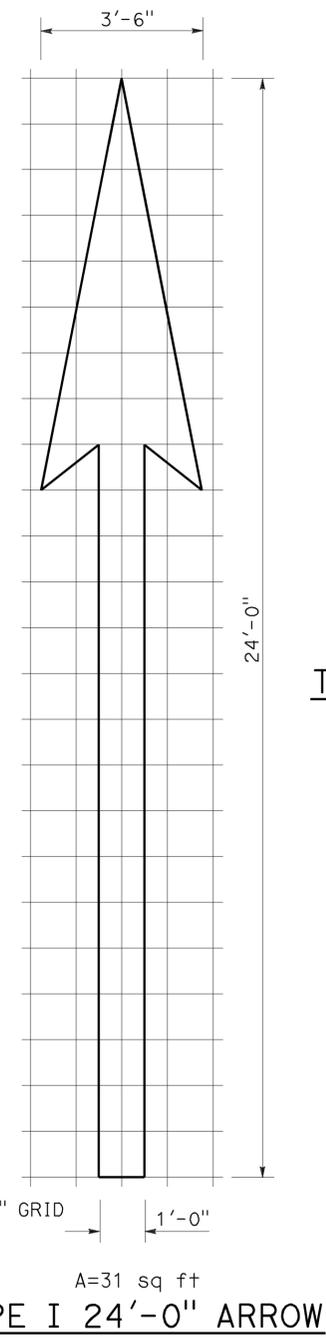
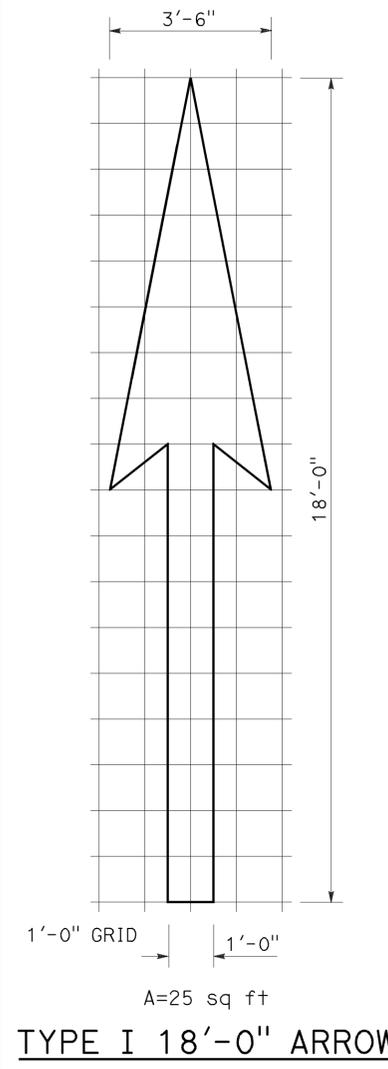
NO SCALE

TCS-4

REVISIONS: GEHAN ATTALAH, LARRY WIERING, GODSON OKEREKE
 DEPARTMENT OF TRANSPORTATION - MAINTENANCE ENGINEERING
 STATE OF CALIFORNIA

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	Ven	23, 34	Var	31	36
<i>Roberta L. McLaughlin</i> REGISTERED CIVIL ENGINEER April 20, 2012 PLANS APPROVAL DATE <small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

To accompany plans dated 2-25-13



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 1, 2006 - PAGE 9 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A24A

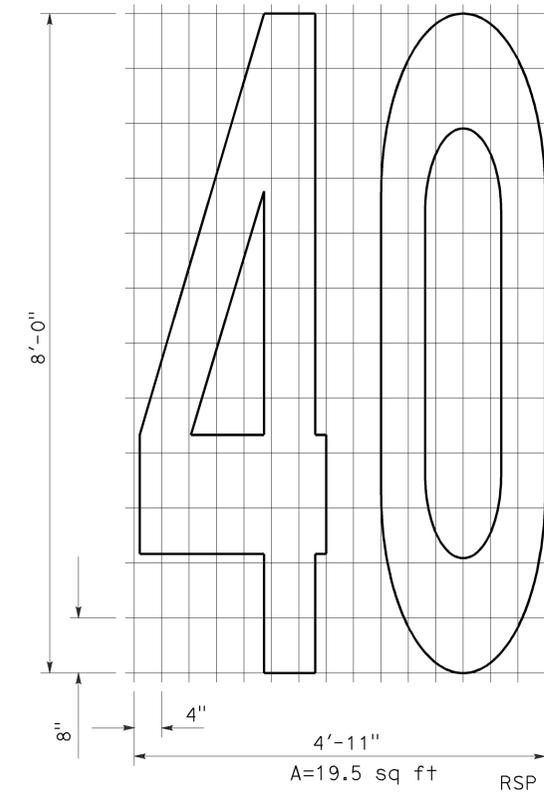
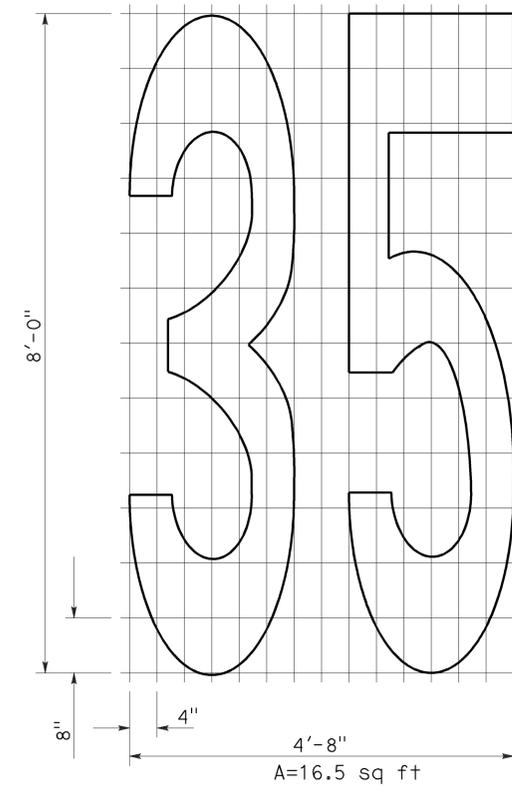
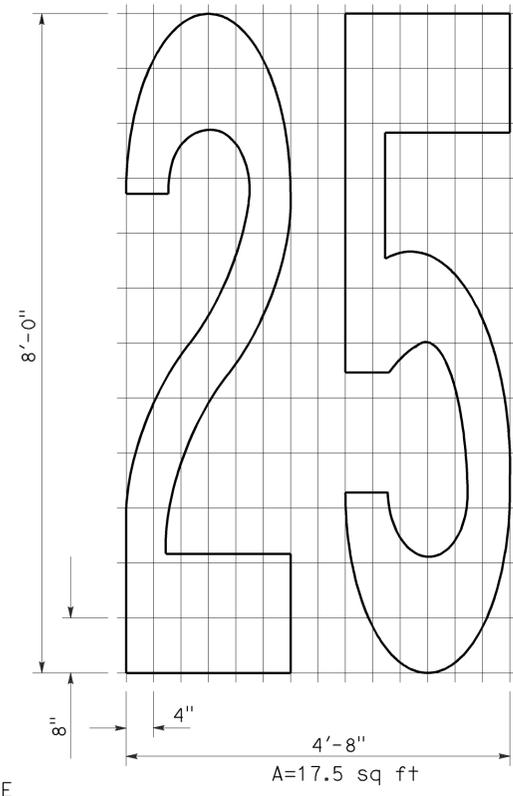
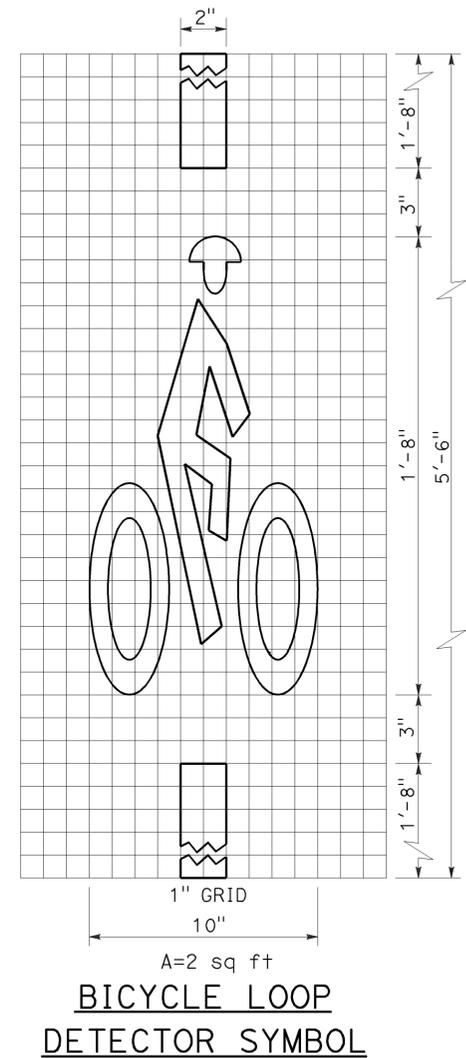
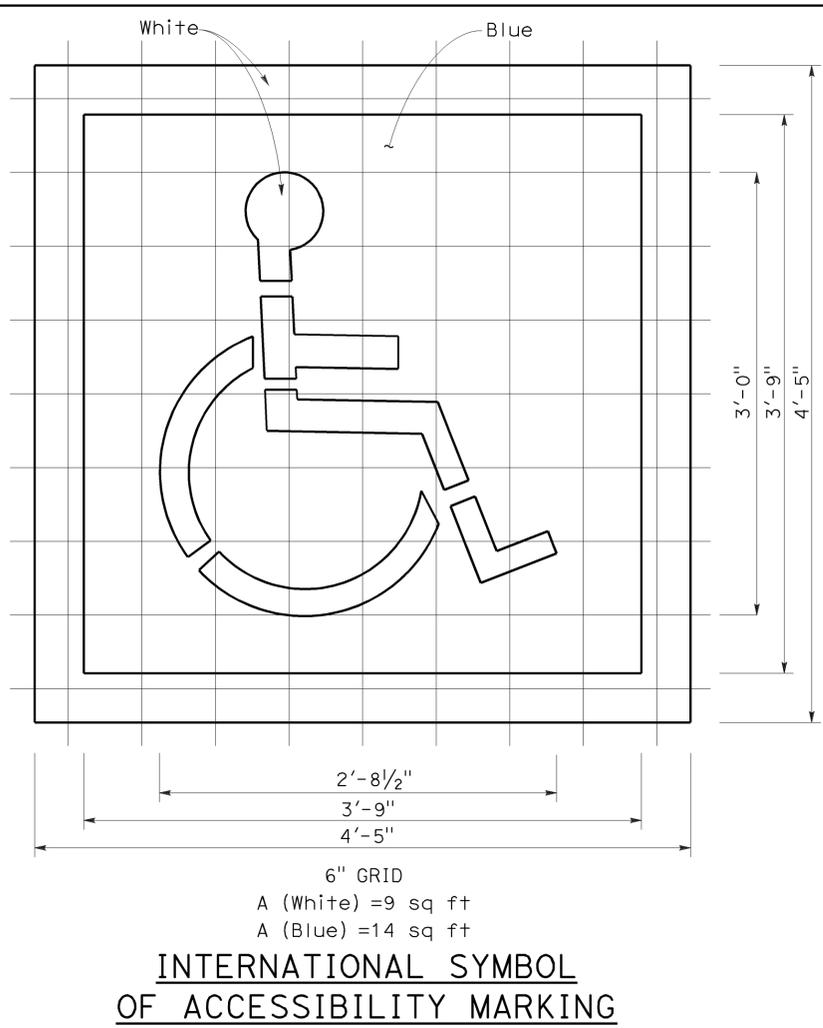
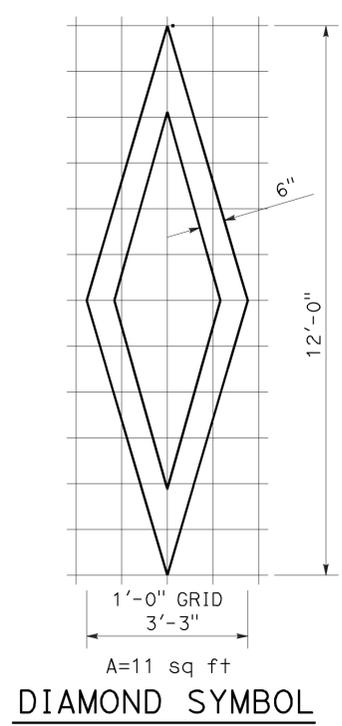
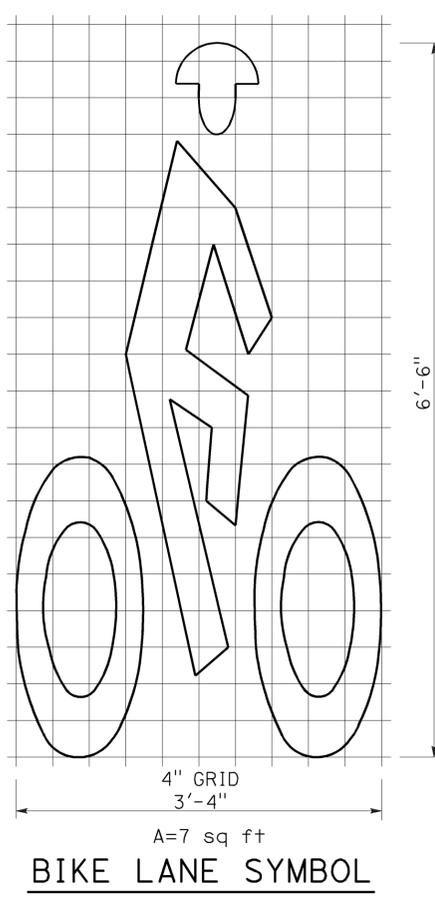
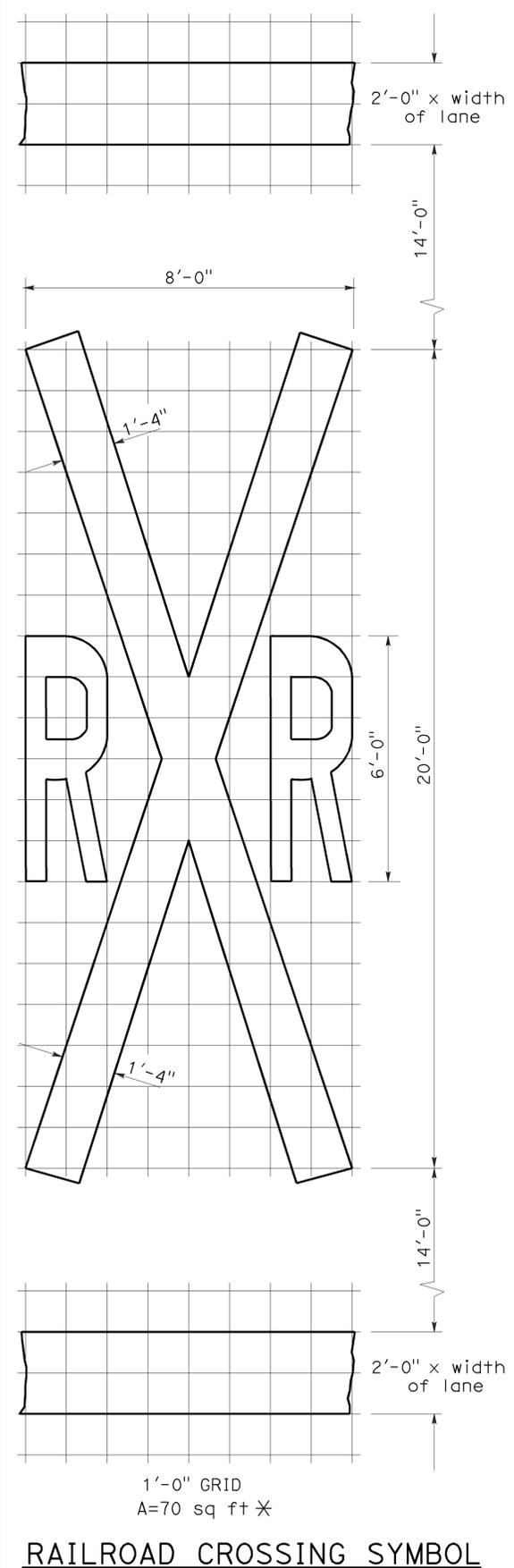
2006 REVISED STANDARD PLAN RSP A24A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	Ven	23, 34	Var	32	36

Donald E. Howe
 REGISTERED CIVIL ENGINEER
 June 6, 2008
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER
 Donald E. Howe
 No. C46402
 Exp. 3-31-09
 CIVIL
 STATE OF CALIFORNIA

To accompany plans dated 2-25-13



NUMERALS

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS SYMBOLS AND NUMERALS
NO SCALE

*70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.

2006 REVISED STANDARD PLAN RSP A24C

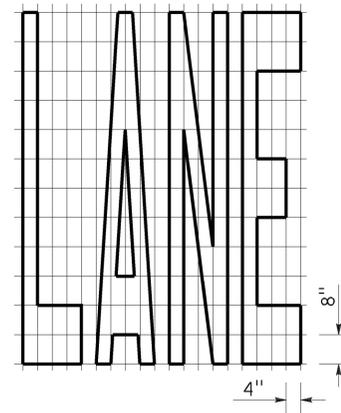
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	33	36

Registered Professional Engineer
 Roberta L. McLaughlin
 No. C40375
 Exp. 3-31-13
 CIVIL
 STATE OF CALIFORNIA

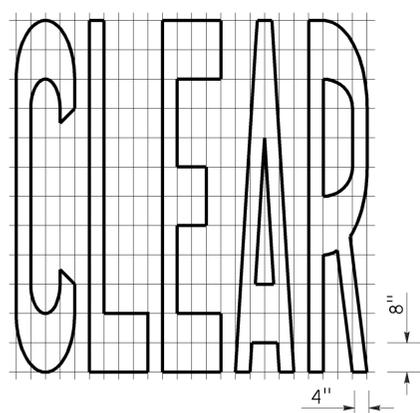
July 20, 2012
 PLANS APPROVAL DATE

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

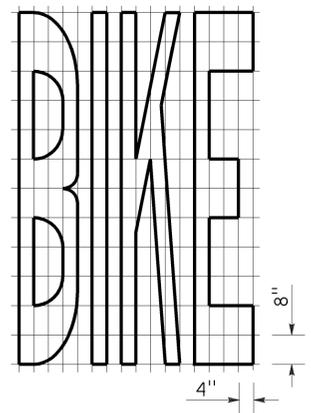
TO ACCOMPANY PLANS DATED 2-25-13



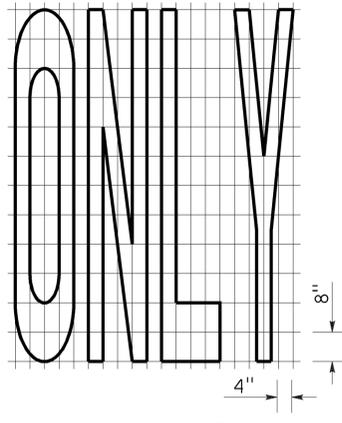
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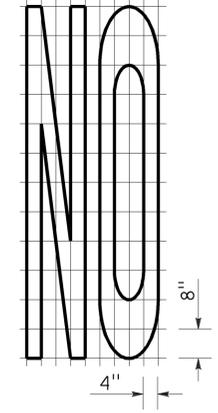
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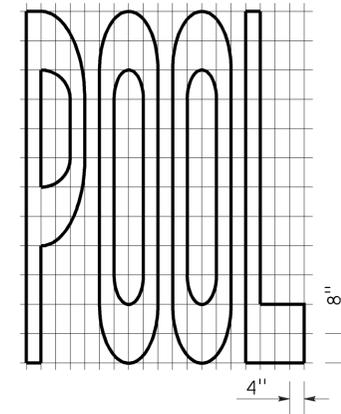
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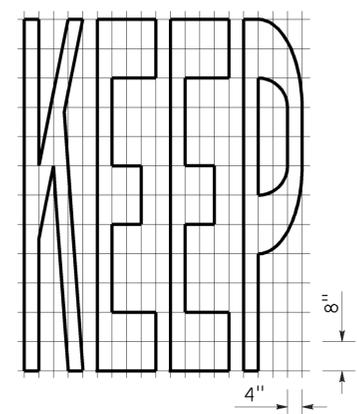
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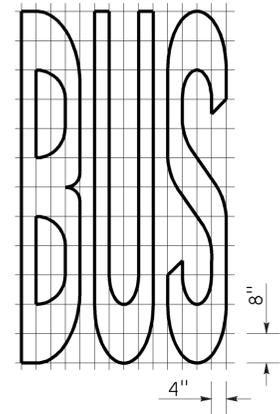
A=14 ft²



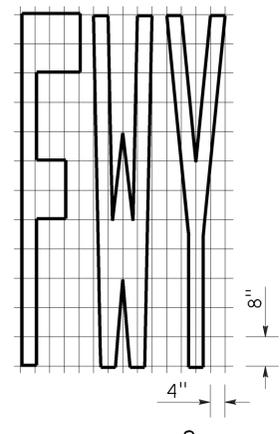
A=23 ft²



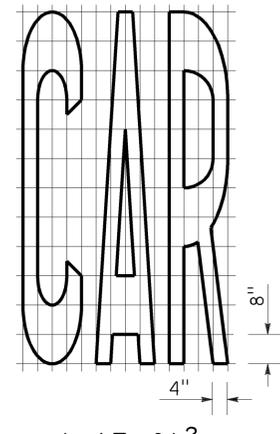
A=24 ft²



A=20 ft²

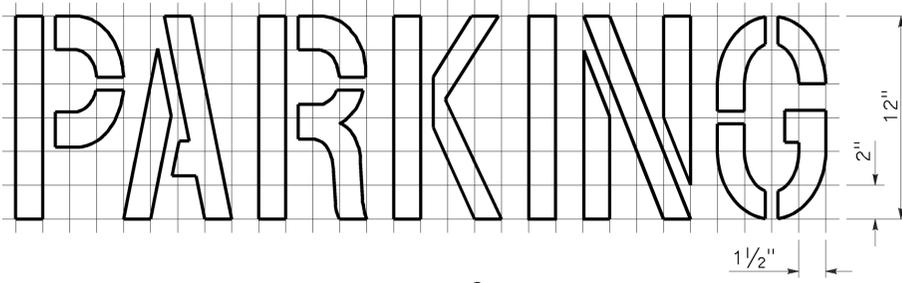
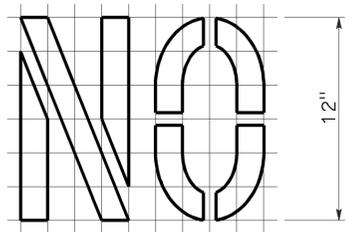


A=16 ft²

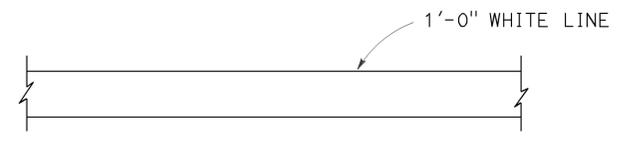


A=17 ft²

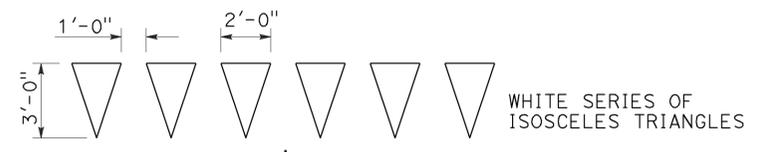
WORD MARKINGS			
ITEM	ft ²	ITEM	ft ²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft²
See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKINGS
WORDS, LIMIT AND YIELD LINES**

NO SCALE

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

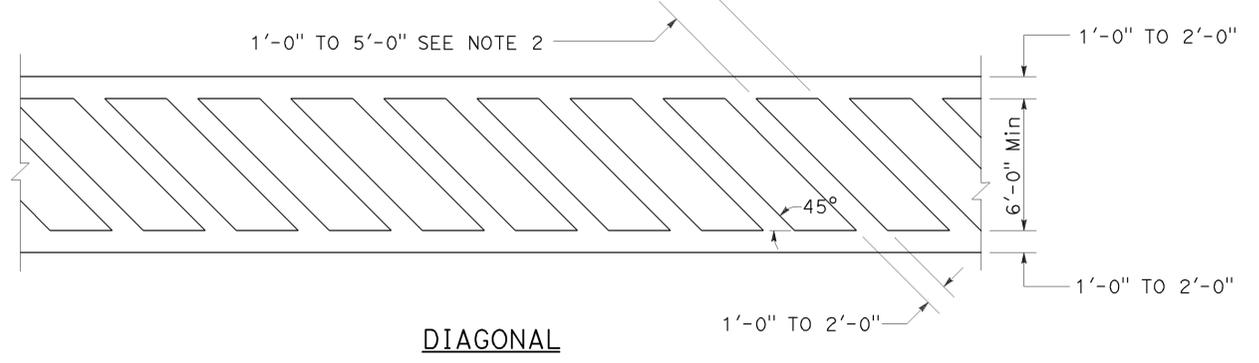
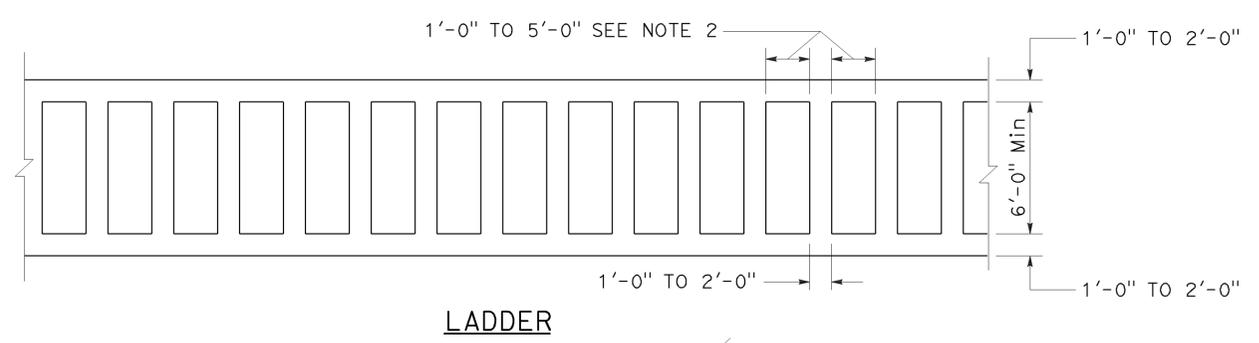
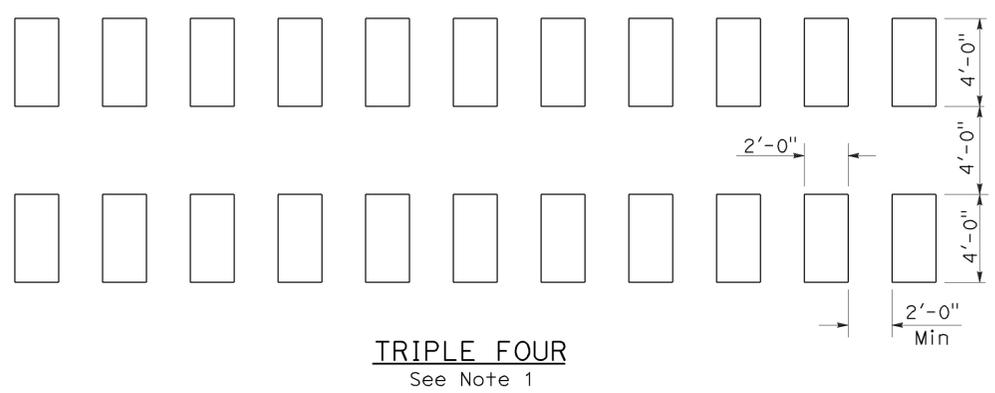
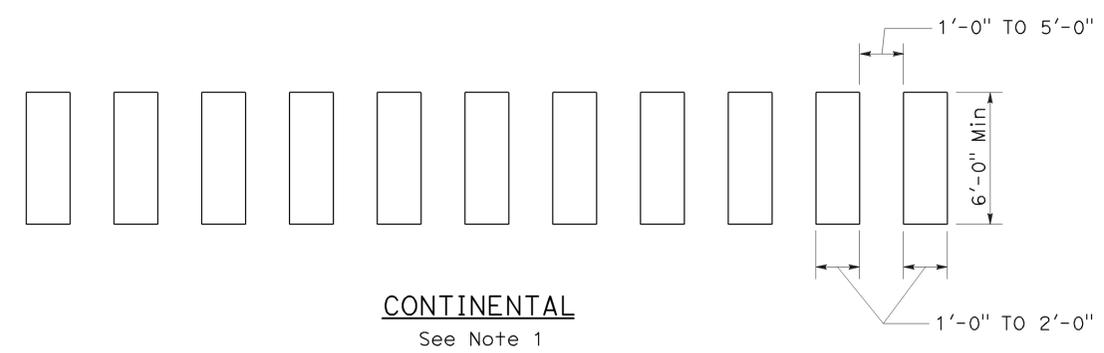
REVISED STANDARD PLAN RSP A24E

2010 REVISED STANDARD PLAN RSP A24E

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	34	36

Roberta L. McLaughlin
 REGISTERED CIVIL ENGINEER
 July 20, 2012
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

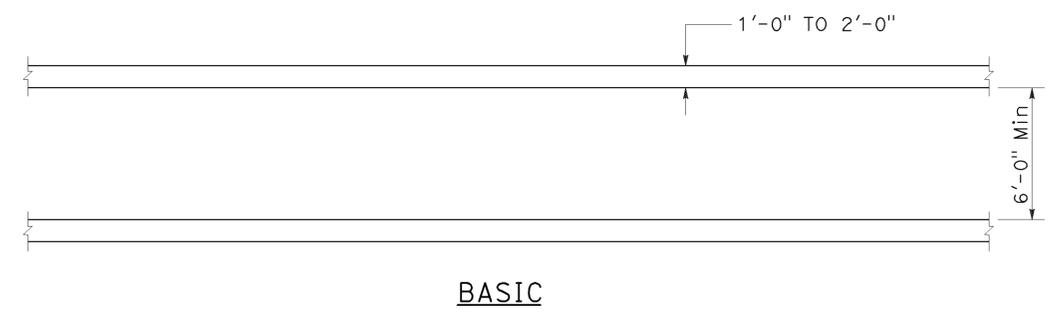
TO ACCOMPANY PLANS DATED 2-25-13



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**

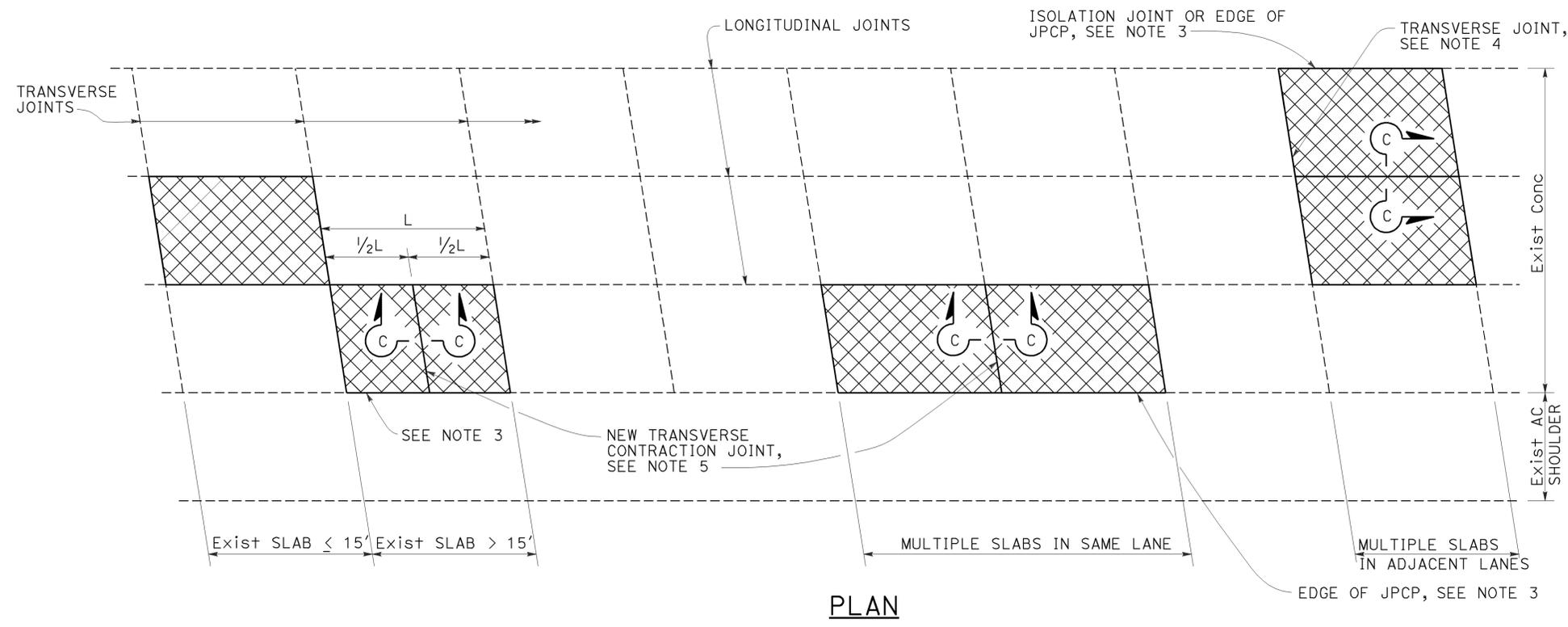
NO SCALE
RSP A24F DATED JULY 20, 2012 SUPPLEMENTS THE
STANDARD PLANS BOOK DATED 2010.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	23, 34	Var	35	36

William K. Farnbach
 REGISTERED CIVIL ENGINEER
 April 20, 2012
 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.

REGISTERED PROFESSIONAL ENGINEER
 William K. Farnbach
 No. C49042
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

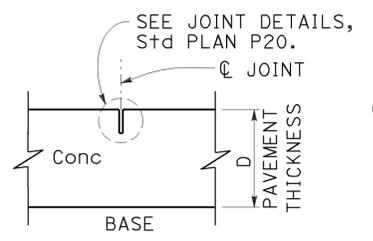
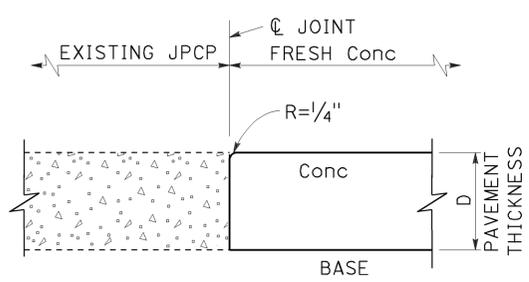
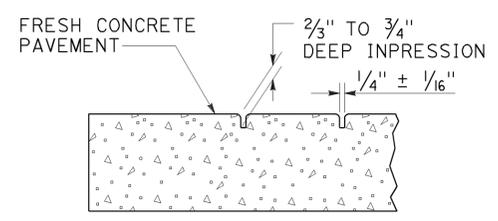
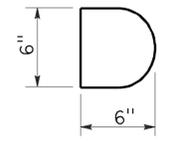
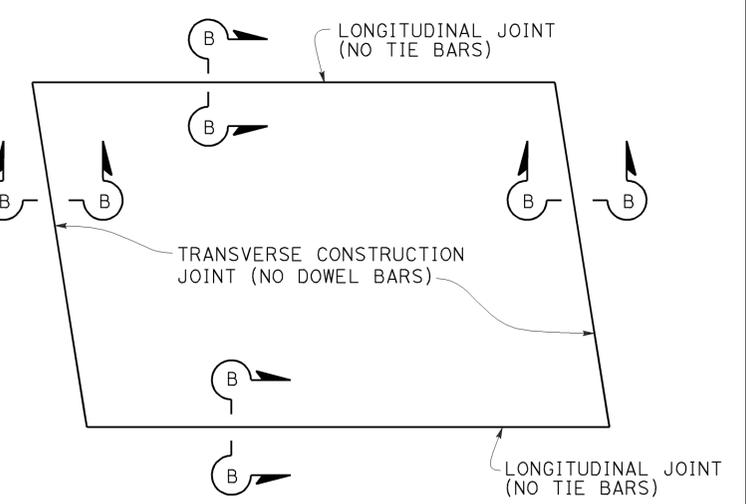
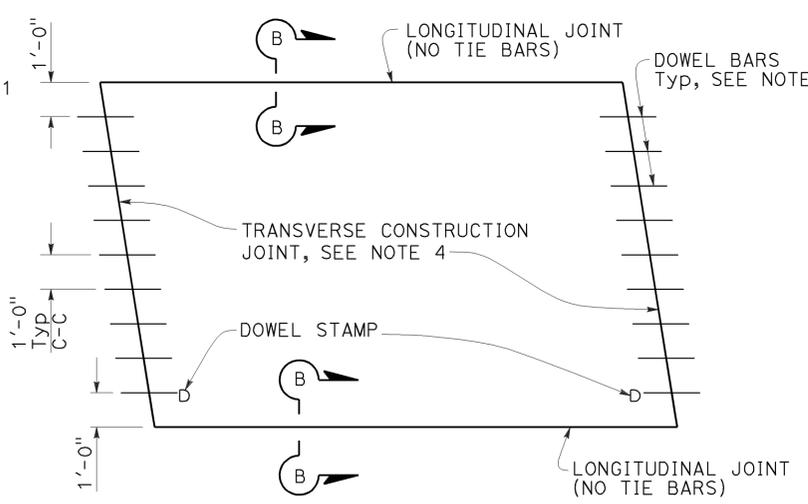
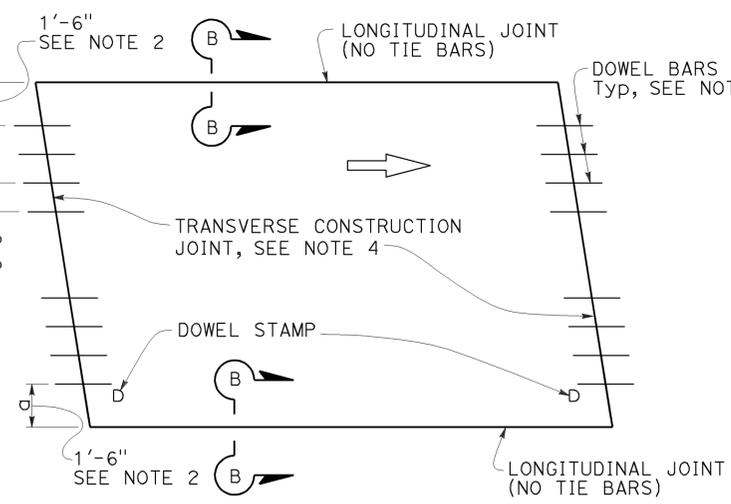
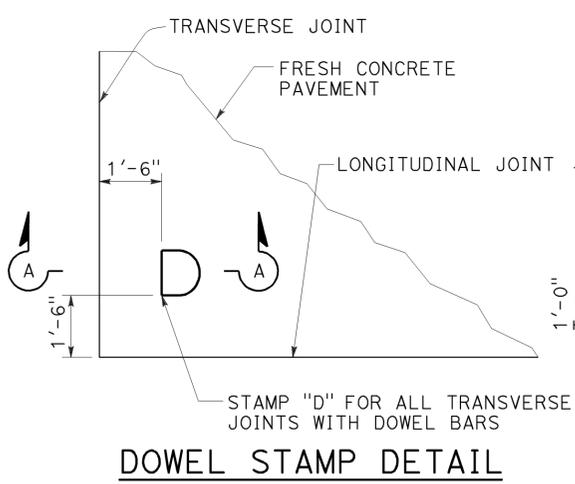
TO ACCOMPANY PLANS DATED 2-25-13



NOTES:

- For details not shown, see Revised Standard Plan P10.
- Where the existing outer shoulder pavement is asphalt concrete pavement, the "a" dimension shall be 1'-0" and the "b" dimension shall be 2'-0".
- Side forms shall be used where edge of pavement is adjacent to asphalt concrete.
- For detail, see Transverse Construction Joint for existing concrete pavement detail on Revised Standard Plan P10.
- Transverse joint to match skew of existing joint. Omit dowel bars.

LEGEND:



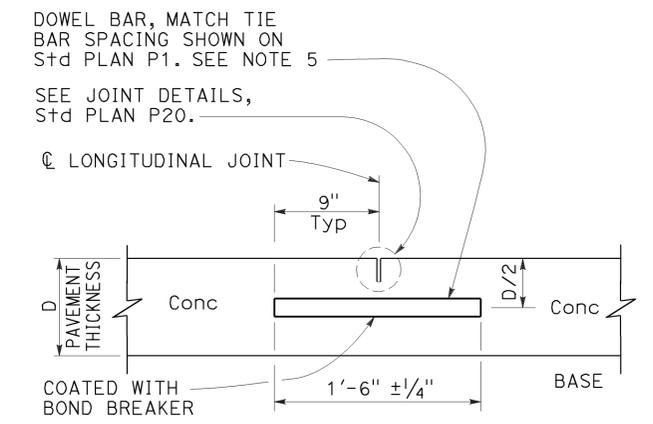
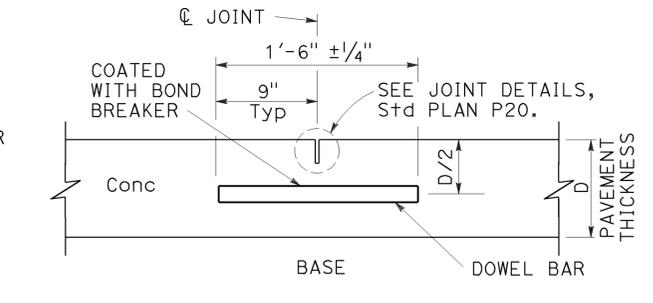
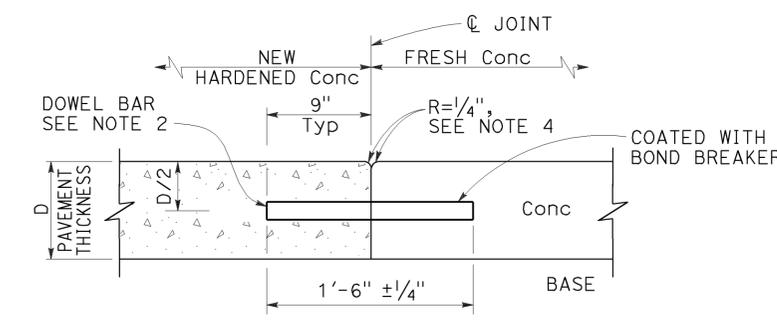
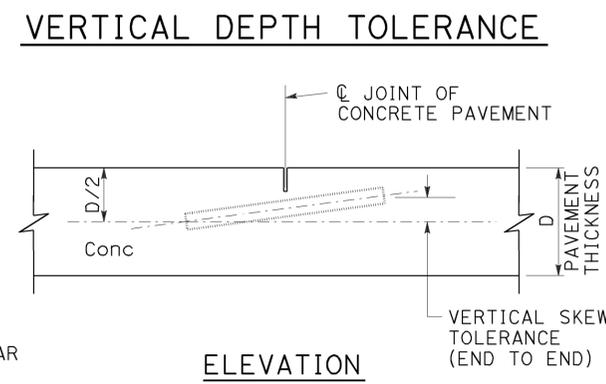
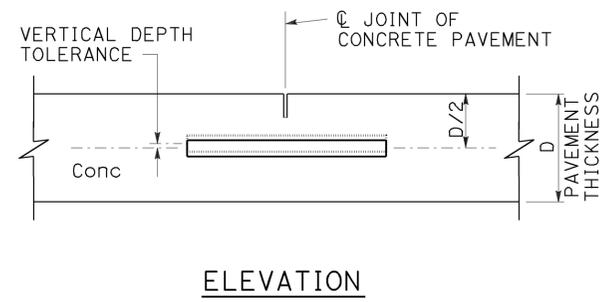
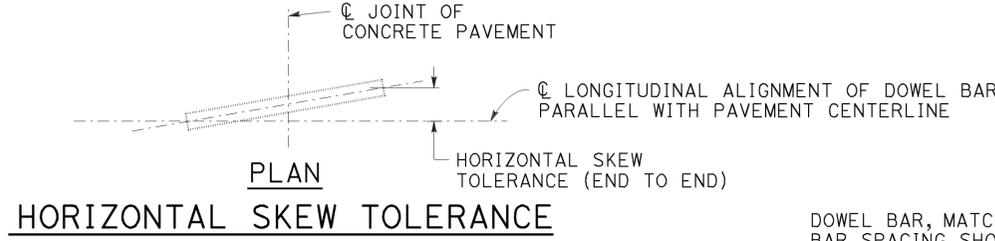
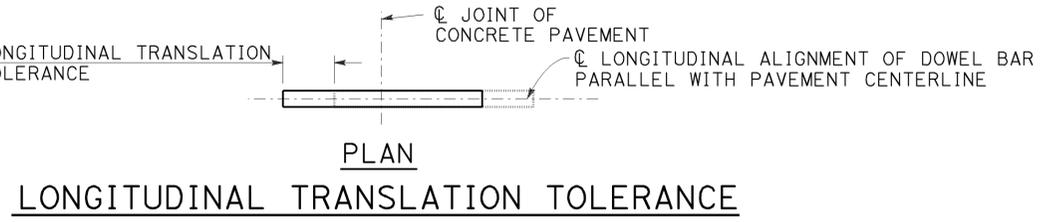
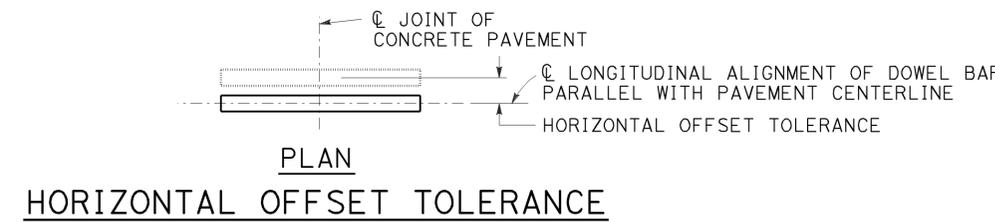
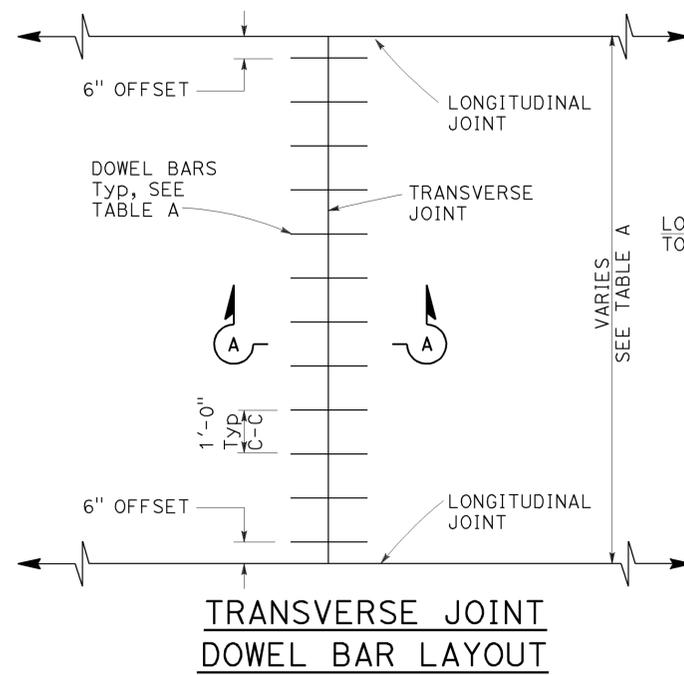
JOINTED PLAIN CONCRETE PAVEMENT - INDIVIDUAL SLAB REPLACEMENT

NO SCALE

RSP P8 DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN P8 DATED MAY 20, 2011 - PAGE 130 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP P8

2010 REVISED STANDARD PLAN RSP P8



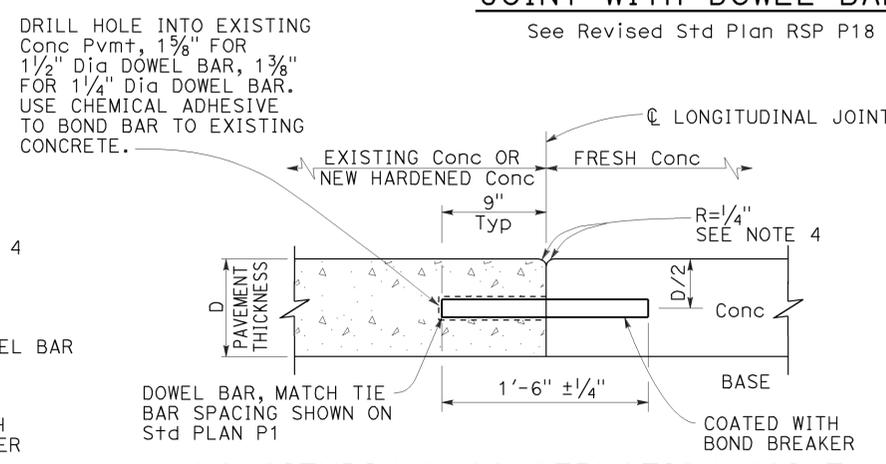
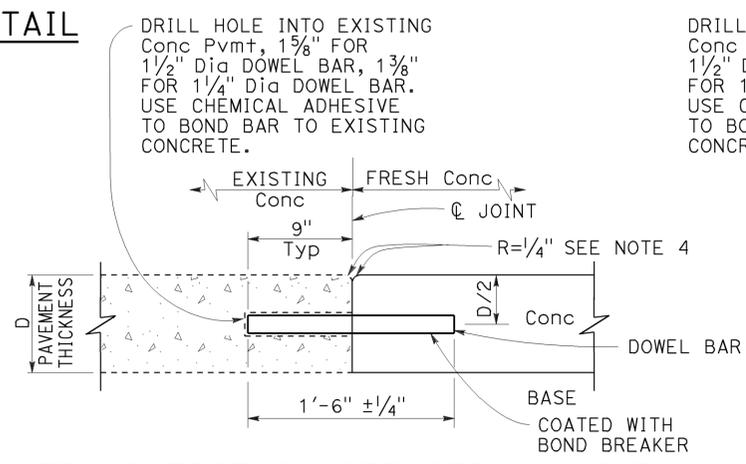
SECTION A-A
TRANSVERSE
CONSTRUCTION JOINT DETAIL

TRANSVERSE CONTRACTION JOINT

LONGITUDINAL CONTRACTION
JOINT WITH DOWEL BARS
See Revised Std Plan RSP P18

TABLE A (See Note 3)

DOWEL BAR TRANSVERSE SPACING TABLE	
WIDTH BETWEEN LONGITUDINAL JOINTS	NUMBER OF DOWELS BETWEEN LONGITUDINAL JOINTS
14'-0"	14
13'-0"	13
12'-0"	12
11'-0"	11
10'-0"	10
8'-0"	8
5'-0"	5
4'-0"	4



TRANSVERSE CONSTRUCTION JOINT
FOR EXISTING CONCRETE PAVEMENT
Drill and bond locations

LONGITUDINAL CONSTRUCTION JOINT
WITH DOWEL BARS
See Revised Std Plan RSP P18

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**CONCRETE PAVEMENT-
DOWEL BAR
DETAILS**
NO SCALE

RSP P10 DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN P10
DATED MAY 20, 2011 - PAGE 131 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP P10

2010 REVISED STANDARD PLAN RSP P10