Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	49,153	15.7/24.0, 0.0/0.6	1	11

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3	CONSTRUCTION DETAILS
4	CONSTRUCTION AREA SIGNS
5	PAVEMENT DELINEATION QUANTITIES
6	SUMMARY OF QUANTITIES
7-11	REVISED AND NEW STANDARD PLANS

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

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

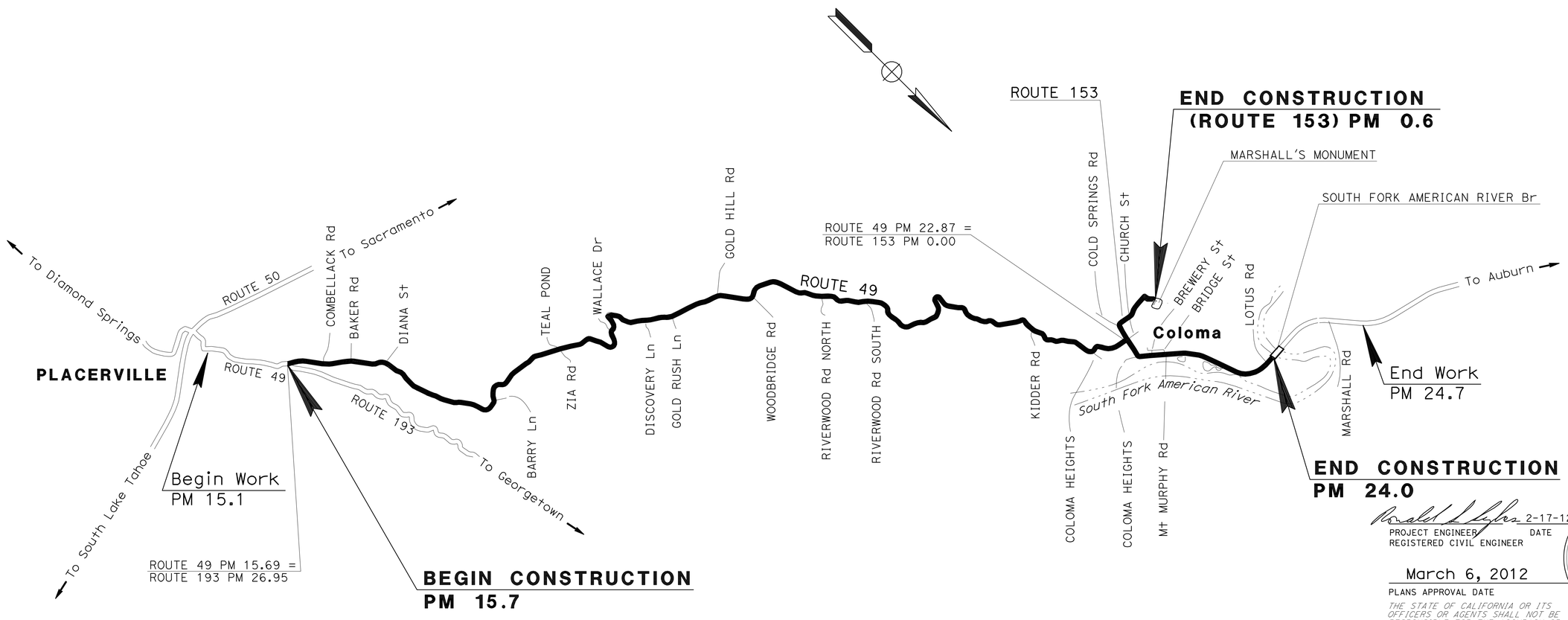
PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN EL DORADO COUNTY NEAR PLACERVILLE FROM ROUTE 49/193 SEPARATION TO SOUTH FORK AMERICAN RIVER BRIDGE AND FROM ROUTE 49/153 SEPARATION TO STATE PARK

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

LOCATION MAP



NO SCALE

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

PROJECT MANAGER: RONALD S. SYKES

DESIGN ENGINEER: RONALD S. SYKES

2-17-12
PROJECT ENGINEER / DATE
REGISTERED CIVIL ENGINEER

March 6, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — RONALD S. SYKES — No. C35526 — Exp. 9-30-13 — 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.

CONTRACT No.	03-4M3404
PROJECT ID	0300020524

LAST REVISION 2-07-12

DATE PLOTTED => 06-MAR-2012
TIME PLOTTED => 12:47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	49,153	15.7/24.0, 0.0/0.6	2	11

REGISTERED CIVIL ENGINEER 2-17-12 DATE

3-6-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER RONALD S. SYKES No. C35526 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

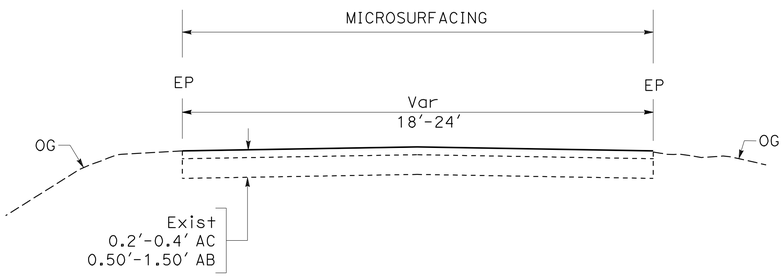
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

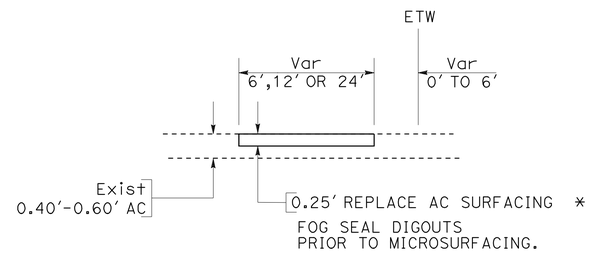
1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTION) ARE SUBJECT TO THE TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
3. CROSS SLOPES VARY, MATCH EXISTING.
4. * - FOR LOCATIONS AND DIMENSIONS OF REPLACE ASPHALT CONCRETE SURFACING SEE SUMMARY OF QUANTITIES
5. NO WORK ON BRIDGES.

ABBREVIATION:

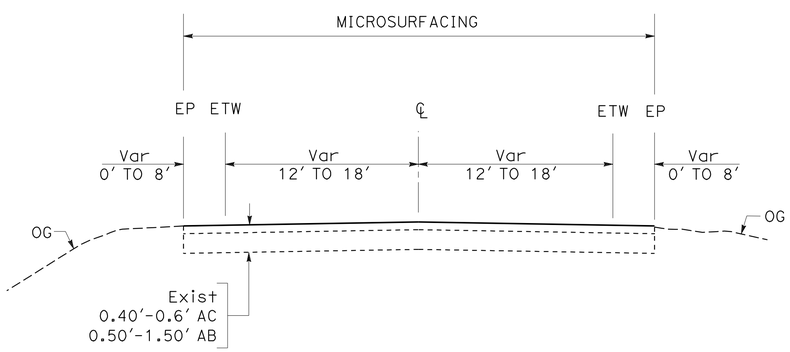
FSC - ASPHALTIC EMULSION (FOG SEAL COAT)



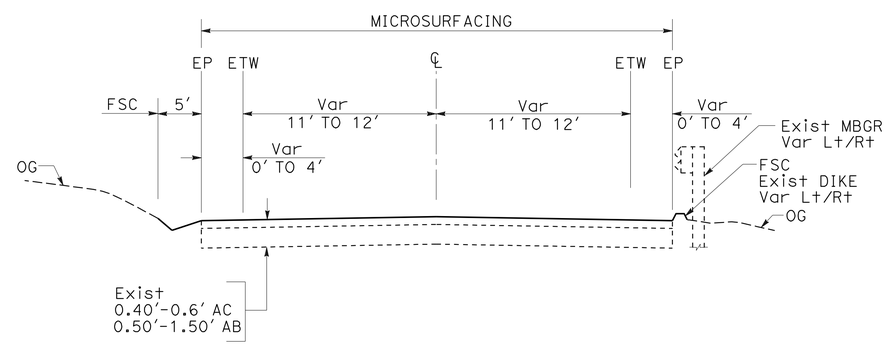
ROUTE 153
PM 0.0 TO 0.6



REPLACE ASPHALT CONCRETE SURFACING



ROUTE 49
PM 15.7 TO 16.1
PM 23.5 TO 23.7



ROUTE 49 TYPICAL
PM 16.1 TO 23.5
PM 23.7 TO 24.0

TYPICAL CROSS SECTIONS
NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: JOSEPH SAAVEDRA
CHECKED BY: REX HERVEY
REVISED BY
DATE REVISED

LAST REVISION 10-28-11 | DATE PLOTTED => 06-MAR-2012 | TIME PLOTTED => 12:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	49,153	15.7/24.0, 0.0/0.6	3	11

REGISTERED CIVIL ENGINEER 2-17-12 DATE

3-6-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER RONALD S. SYKES No. C35526 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

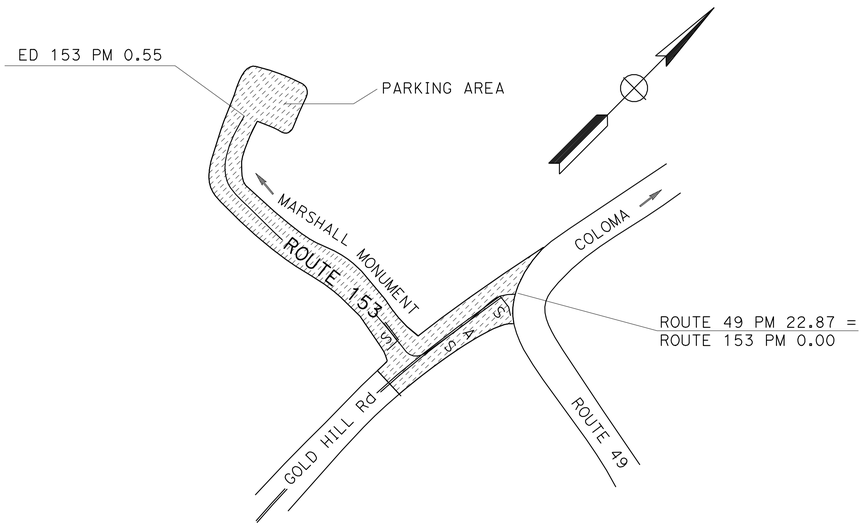
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

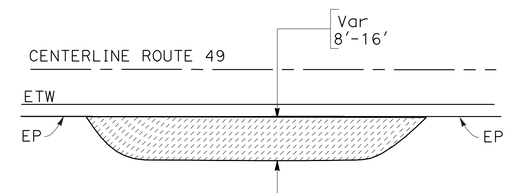
1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGEND:

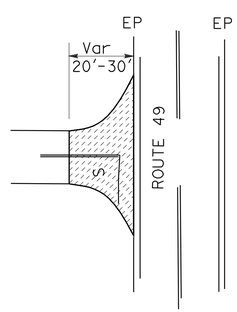
MICROSURFACING



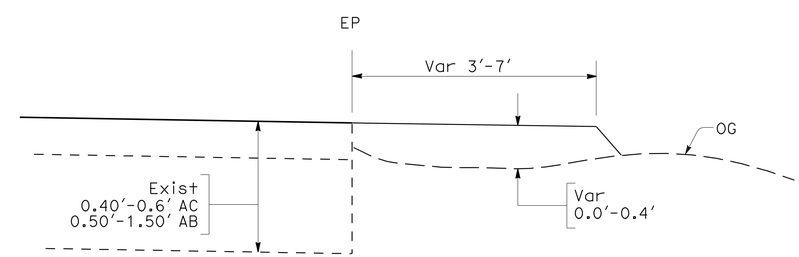
ROUTE 153 AND PARKING AREA
PM 0.00 TO 0.55



PULLOUT / PARKING AREA
PM 23.05 TO 23.23 (R+)
PM 20.92 TO 21.99 (R+)



COUNTY ROAD TYPICAL



IMPORTED MATERIAL (SHOULDER BACKING)
PM 23.00 TO 24.00

CONSTRUCTION DETAILS
NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: RONALD S. SYKES

CALCULATED-DESIGNED BY: JOSEPH SAAVEDRA
CHECKED BY: REX HERVEY

REVISED BY | DATE REVISED

LAST REVISION 02-07-12
DATE PLOTTED => 06-MAR-2012
TIME PLOTTED => 12:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	49,153	15.7/24.0, 0.0/0.6	4	11

REGISTERED CIVIL ENGINEER 2-17-12 DATE

3-6-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RONALD S. SYKES
No. C35526
Exp. 9-30-13
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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
A	G20-1[Spec](9)		60" x 30"	ROAD WORK NEXT 9 MILES	2 - 4" x 6"	2
B		C40(Mod)	48" x 36"	TRAFFIC FINES DOUBLED IN WORK ZONES	1 - 4" x 6"	2
C	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	18
D	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	3

SIGN DETAILS

(A) G20-1[Spec](9)

ROAD WORK
NEXT 9 MILES

6" C SERIES LETTERS

60"x30"

RETROREFLECTIVE ORANGE BACKGROUND WITH BLACK LEGEND AND BORDER.

(B) C40(Mod)<CA>

TRAFFIC FINES
DOUBLED IN
WORK ZONES

4" D SERIES LETTERS

48"x36"

RETROREFLECTIVE WHITE BACKGROUND WITH BLACK LEGEND AND BORDER.

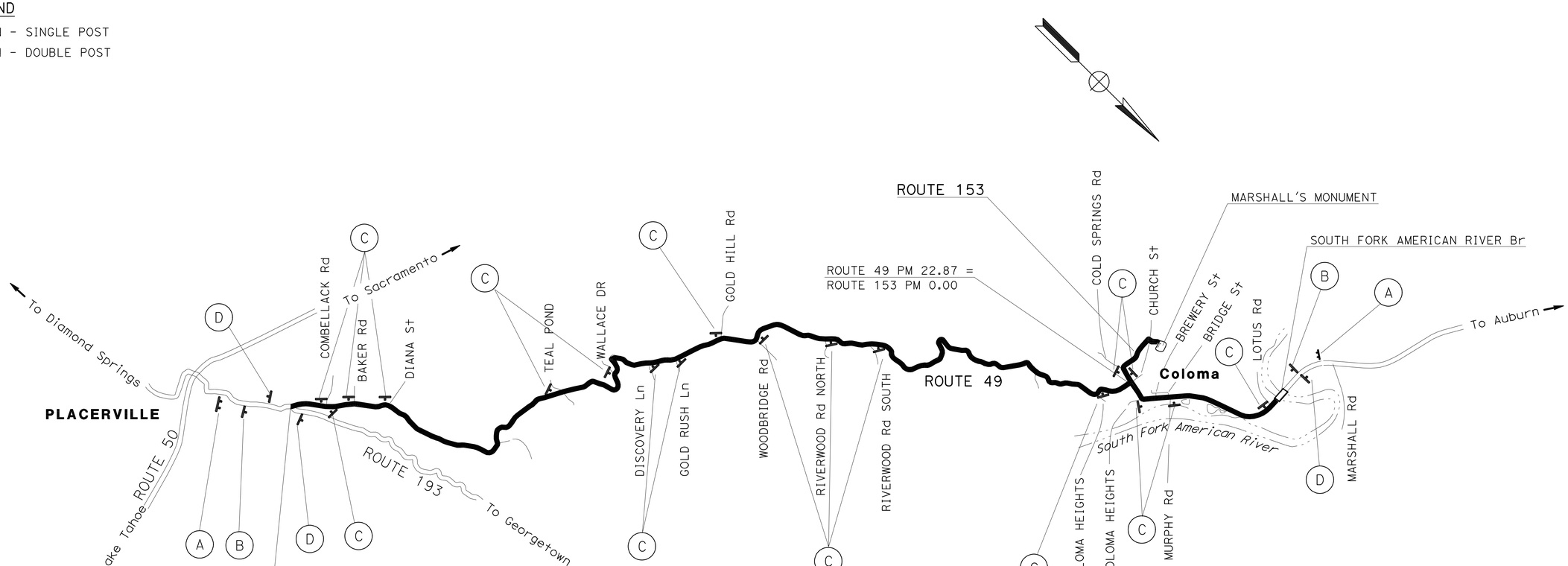
NOTES:

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

LEGEND

SIGN - SINGLE POST

SIGN - DOUBLE POST



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE ENGINEERING
Caltrans

FUNCTIONAL SUPERVISOR: RONALD S. SYKES

CALCULATED-DESIGNED BY: JOSEPH SAAVEDRA
CHECKED BY: REX HERVEY

REVISED BY
DATE REVISED

LAST REVISION 2-07-12
DATE PLOTTED => 06-MAR-2012
TIME PLOTTED => 12:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	49,153	15.7/24.0, 0.0/0.6	5	11

REGISTERED CIVIL ENGINEER 2-17-12 DATE

3-6-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER RONALD S. SYKES No. C35526 Exp. 9-30-13 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.

PAVEMENT STRIPING AND PAVEMENT MARKERS

LOCATION/ DESCRIPTION	4" THERMOPLASTIC TRAFFIC STRIPE		4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3)	8" THERMOPLASTIC TRAFFIC STRIPE	PAVEMENT MARKER (RETROREFLECTIVE)		PAVEMENT MARKER (RETROREFLECTIVE RECESSED)	
DETAIL/TYPE	22	27B	27C	38	D	G	D	G
UNITS	LF				EA			
ROUTE 49 PM 15.7/22.8	74,897	73,512	2,033	626			3,105	29
ROUTE 49 PM 22.8/24.0	11,628	11,051	899	252	524	13		
ROUTE 153 PM 0.0/0.6	1,540	1,640			72			
COUNTY ROAD CONFORMS	1,016				52			
SUBTOTAL	89,081	86,203		878	648	13	3,105	29
TOTAL	175,284		2,932	878	661		3,134	

PAVEMENT MARKINGS

LOCATION/DESCRIPTION		THERMOPLASTIC PAVEMENT MARKING									NOTES
		"STOP"	"AHEAD"	TYPE III ARROW	TYPE VI ARROW	LIMIT LINE	CROSSWALKS	"PED"	"XING"	"25"	
		SQFT									
ROUTE 49	PM 15.70 (R†) ROUTE 193	44		84		54					REMOVE TYPE 5 ARROWS
	PM 15.92 (L†) COMBELLACK Rd	44		84		37					REMOVE TYPE 5 ARROWS
	PM 16.12 (R†) BAKER Rd	22				20					
	PM 16.23 (R†) JANE S†	22				14					
	PM 16.39 (L†) DIANA S†	22				18					
	PM 17.91 (L†) TEAL POND	22				33					
	PM 18.49 (L†) WALLACE Dr	22				12					
	PM 18.81 (L†) WILKINSON C†	22				24					
	PM 18.85 (R†) DISCOVERY Ln	44				47					
	PM 19.04 (R†) GOLD RUSH Ln	22				37					
	PM 19.39 (L†) GOLD HILL Rd	22				22					
	PM 19.65 (R†) WOODBRIDGE Rd	22				18					
	PM 20.24 (R†) RIVERWOOD Rd	22				26					
	PM 20.55 (R†) RIVERWOOD Rd	22				20					
	PM 22.87 (L†) CHURCH S†	22				12					
	PM 22.96 (R†) COLOMA HEIGHTS Rd	22				27					
	PM 22.99 NORTHBOUND LANE							18	21	17.5	
	PM 23.01 (L†) BREWERY S†	22				18	58				
	PM 23.16 (L†) BRIDGE S†	22				11	52				
	PM 23.17 (R†) M† MURPHY Rd	22				20	74				
	PM 23.23						50				
	PM 23.26 (R†) PARKING ENTRANACE	22				16	50				
	PM 23.33						50				
	PM 23.40 (L†) PARK DRIVEWAY	22				22					
	PM 23.48 SOUTHBOUND LANE							18	21	17.5	
	PM 23.58 (R†) N BEACH ENTRANCE	22		84	84	39					
	PM 23.82	22	31								
	PM 23.90 (L†) LOTUS Rd	110				96					
ROUTE 153	PM 0.00 ROUTE 153/49	22				12					
	PM 0.05	22	31								
	PM 0.12	22				14					
SUBTOTAL		748	62	252	84	669	334	36	42	35	
TOTAL		2,262									

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: JOSEPH SAAVEDRA
CHECKED BY: REX HERVEY
REVISED BY
DATE REVISED

LAST REVISION 2-07-12
DATE PLOTTED => 06-MAR-2012
TIME PLOTTED => 12:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	49,153	15.7/24.0, 0.0/0.6	6	11

REGISTERED CIVIL ENGINEER 2-17-12 DATE

3-6-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER RONALD S. SYKES No. C35526 Exp. 9-30-13 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.

REMOVE THERMOPLASTIC PAVEMENT MARKING

LOCATION/DESCRIPTION	REMOVE THERMOPLASTIC PAVEMENT MARKING										
	"STOP"	"AHEAD"	"PED"	"XING"	"25"	TYPE III ARROW	TYPE V ARROW	TYPE VI ARROW	LIMIT LINE	CROSSWALKS	DETAIL 38
	SQFT										
ROUTE 49 PM 15.7 TO 24.0	682	31	36	42	35	252	99	84	643	334	585
ROUTE 153 PM 0.0 TO 0.6	66	31							26		
SUBTOTAL	748	62	36	42	35	252	99	84	669	334	585
TOTAL	2,946										

REPLACE ASPHALT CONCRETE SURFACING

DIRECTION	BEGIN	WHEEL PATH	LENGTH	WIDTH	(N) HMA	REPLACE AC SURFACING
	APPROXIMATE PM		LF		TON	CY
ROUTE 49 SOUTHBOUND	21.37	R/L	50	12	11.2	5.6
	21.32	R/L	90	12	20.0	10.0
	21.22	R/L	440	12	97.8	48.9
	21.12	R/L	350	12	77.8	38.9
	21.08	R/L	200	12	44.4	22.2
	20.50	R/L	100	12	22.2	11.1
	20.40	R/L	330	12	73.4	36.7
	20.24	R/L	700	12	155.6	77.8
	20.21	R/L	150	12	33.4	16.7
	20.17	R/L	300	12	66.6	33.3
	20.14	R/L	70	12	15.6	7.8
	20.06	R/L	105	12	23.4	11.7
	19.93	R/L	100	12	22.2	11.1
	19.73	R/L	50	12	12.2	5.6
	19.40	R/L	100	12	22.2	11.1
	19.19	R/L	100	12	22.2	11.1
	18.52	R/L	110	12	22.2	11.1
	18.32	R/L	200	12	44.4	22.2
	18.08	R/L	100	12	22.2	11.1
	17.98	R/L	105	12	23.4	11.7
	17.80	R/L	750	12	166.6	83.3
	17.34	R/L	105	12	33.4	16.7
	17.28	R/L	50	12	11.2	5.6
	16.54	R/L	405	12	90.0	45.0
	16.26	R/L	225	12	50.0	25.0
SOUTHBOUND SUBTOTAL						591.3

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

REPLACE ASPHALT CONCRETE SURFACING

DIRECTION	BEGIN	WHEEL PATH	LENGTH	WIDTH	(N) HMA	REPLACE AC SURFACING
	APPROXIMATE PM		LF		TON	CY
ROUTE 49 NORTHBOUND	22.38	R/L	50	6	5.6	2.8
	21.86	R/L	100	12	22.2	11.1
	21.78	R/L	150	12	33.4	16.7
	21.36	R/L	100	12	22.2	11.1
	21.22	R/L	340	12	75.6	37.8
	21.16	R/L	50	12	11.2	5.6
	21.12	R/L	100	12	22.2	11.1
	20.68	R/L	150	12	33.4	16.7
	20.55	R/L	100	12	22.2	11.1
	20.42	R/L	600	12	133.4	66.7
	20.24	R/L	700	12	155.6	77.8
	20.17	R/L	300	12	66.6	33.3
	20.14	R/L	70	12	15.6	7.8
	19.62	R/L	50	12	11.2	5.6
	19.36	R/L	50	12	11.2	5.6
	18.57	R/L	100	12	22.2	11.1
	17.20	R/L	170	12	37.8	18.9
	17.06	R/L	300	12	66.6	33.3
	16.57	R/L	180	12	40.0	20.0
	16.40	R/L	600	12	133.4	66.7
	16.24	R/L	275	12	61.2	30.6
	15.98	R/L	1010	12	224.4	112.2
NORTHBOUND SUBTOTAL						613.6
SOUTHBOUND SUBTOTAL						591.3
TOTAL						1,204.9

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

ROADWAY QUANTITY SUMMARY

LOCATION/DESCRIPTION		MICRO-SURFACING	ASPHALTIC EMULSION (FOG SEAL COAT)	IMPORTED MATERIAL (SHOULDER BACKING)	COMMENTS
		TON			
ROUTE 49	PM 15.7 TO 24.0	1,197	4.0	530	FOG SEAL ALL EXISTING DIKE AND DIGOUTS
	PULLOUT/PARKING AREA	21			
ROUTE 153	PM 0.0 TO 0.6	90			
	PARKING AREA	19			
TOTAL		1,327	4.0	530	

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE ENGINEERING
Caltrans

FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: JOSEPH SAAVEDRA
CHECKED BY: REX HERVEY
REVISED BY
DATE REVISED

LAST REVISION 2-07-12
DATE PLOTTED => 06-MAR-2012
TIME PLOTTED => 12:48

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	ED	49,153	15.7/24.0, 0.0/0.6	7	11

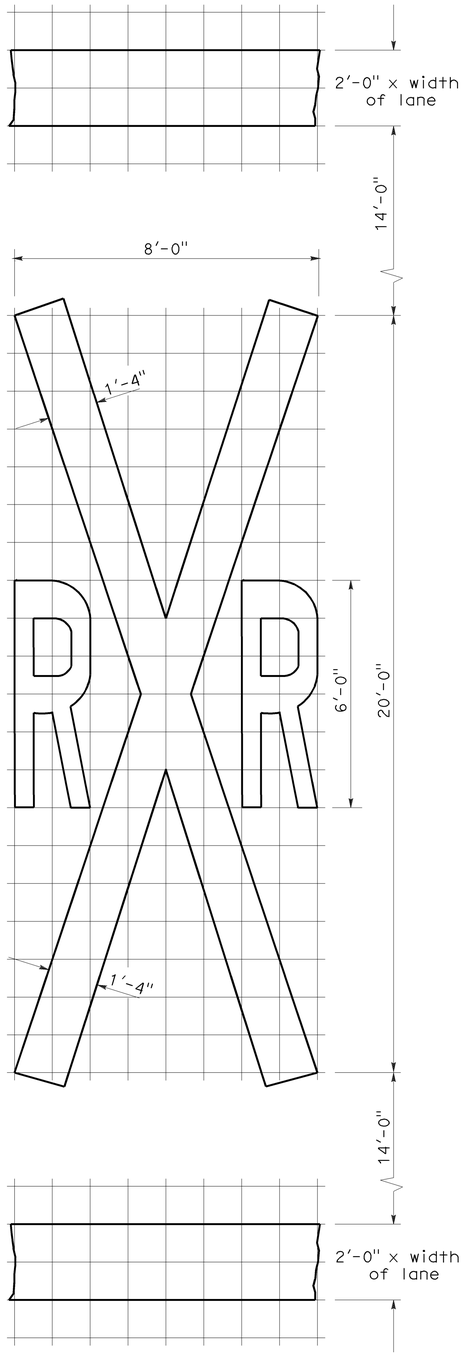
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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.

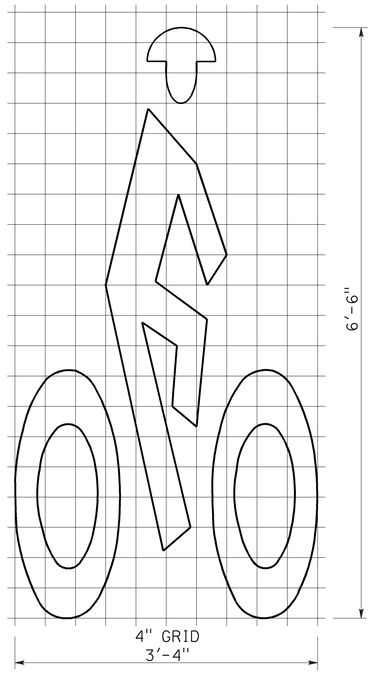
To accompany plans dated 3-6-12



1'-0" GRID
A=70 sq ft ✳

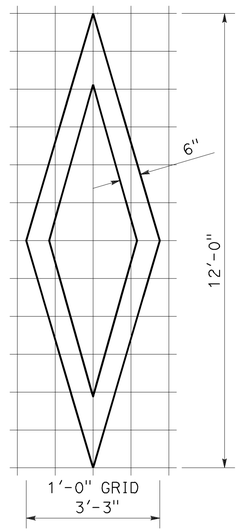
RAILROAD CROSSING SYMBOL

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



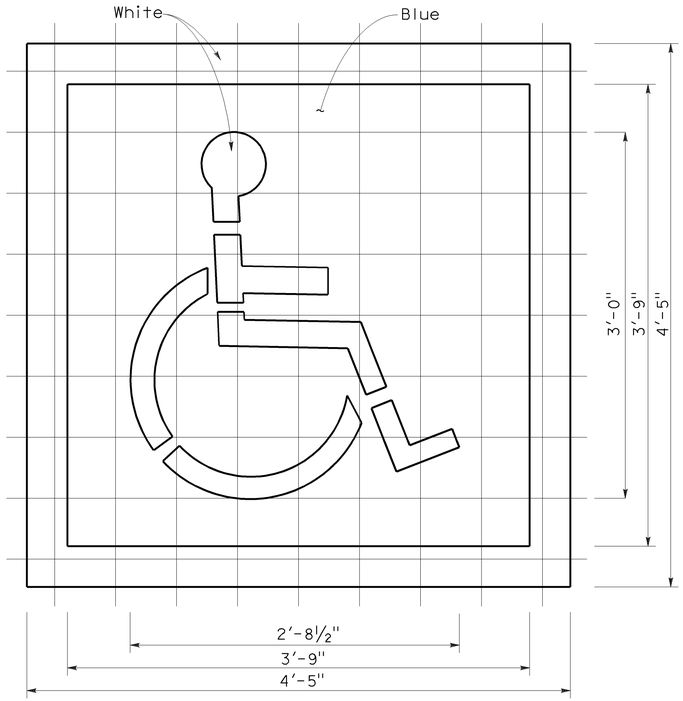
A=7 sq ft

BIKE LANE SYMBOL



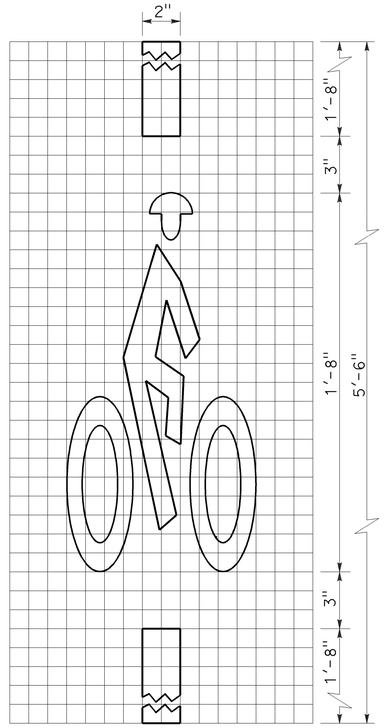
A=11 sq ft

DIAMOND SYMBOL



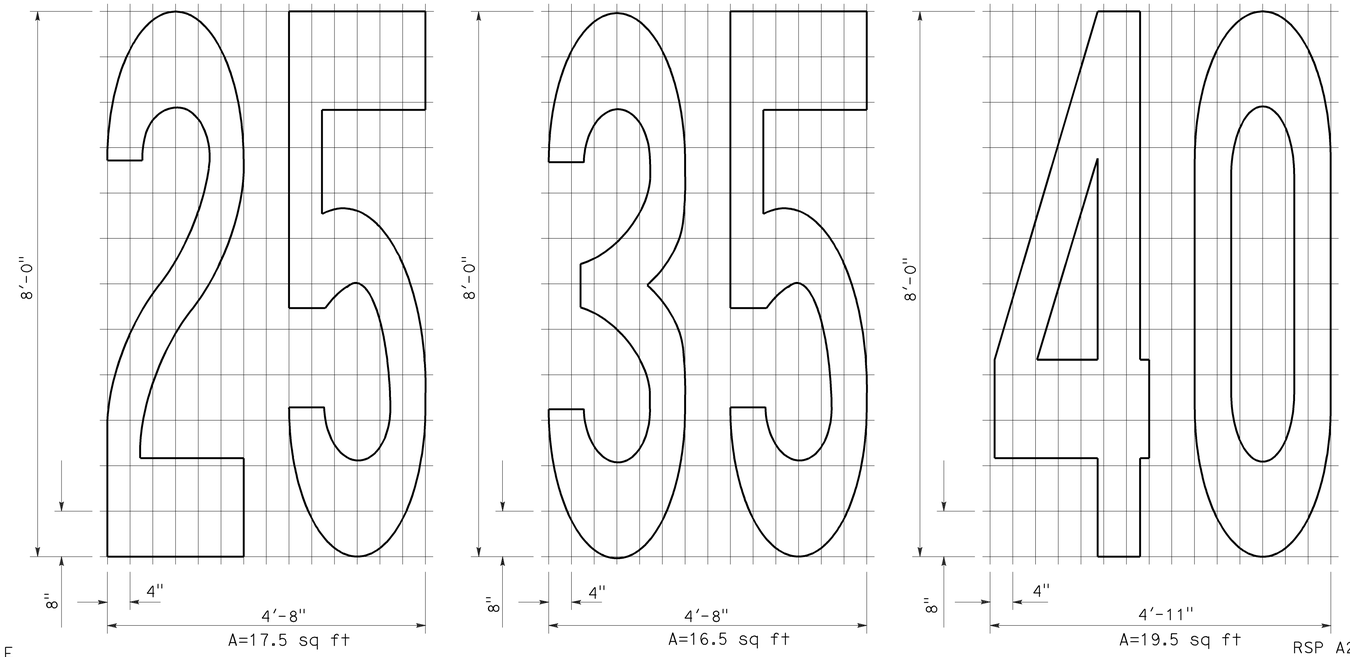
6" GRID
A (White) =9 sq ft
A (Blue) =14 sq ft

INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING



1" GRID
10"
A=2 sq ft

BICYCLE LOOP DETECTOR SYMBOL



A=17.5 sq ft
A=16.5 sq ft
A=19.5 sq ft

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

RSP A24C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A24C DATED MAY 1, 2006 - PAGE 11 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A24C

2006 REVISED STANDARD PLAN RSP A24C

5-27-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	ED	49,153	15.7/24.0, 0.0/0.6	8	11

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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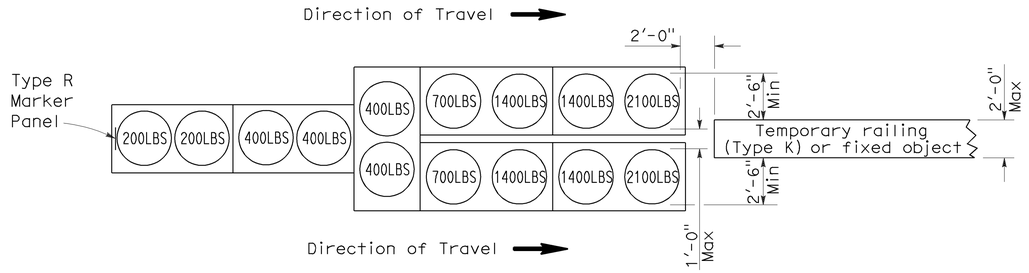
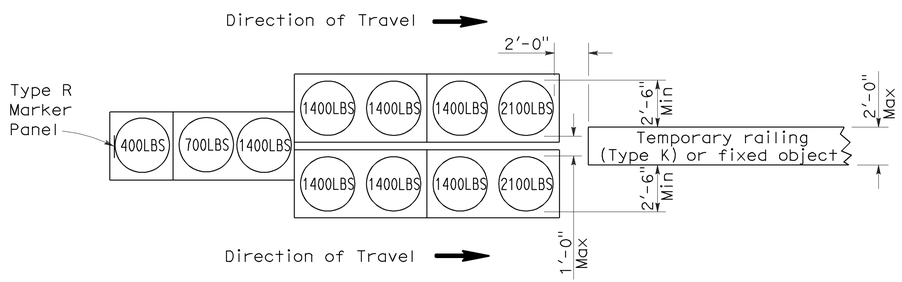
To accompany plans dated 3-6-12



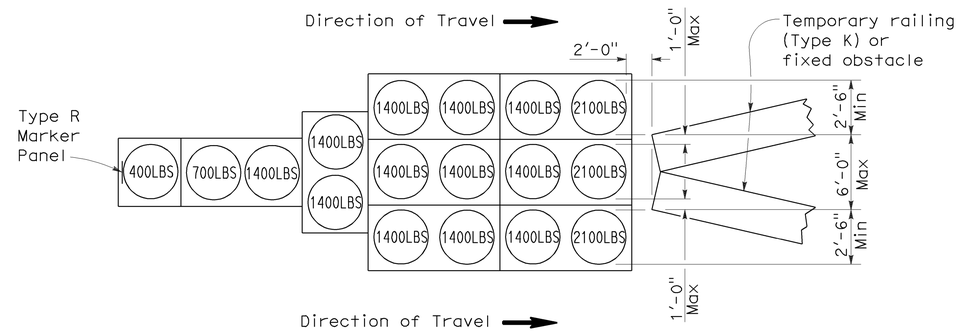
ARRAY 'TU14'

Approach speed 45 mph or more



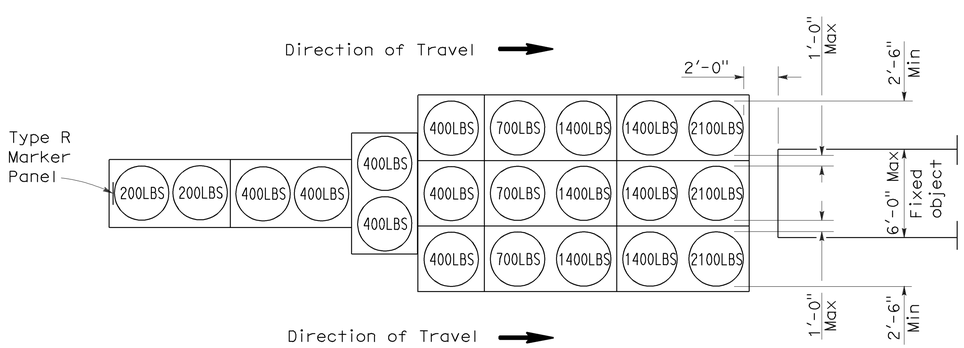
ARRAY 'TU11'

Approach speed less than 45 mph



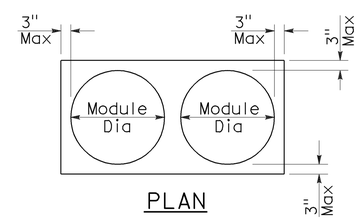
ARRAY 'TU17'

Approach speed less than 45 mph

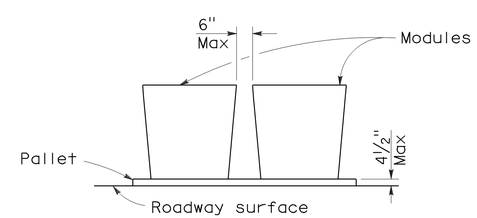


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (UNIDIRECTIONAL)

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	ED	49,153	15.7/24.0, 0.0/0.6	9	11

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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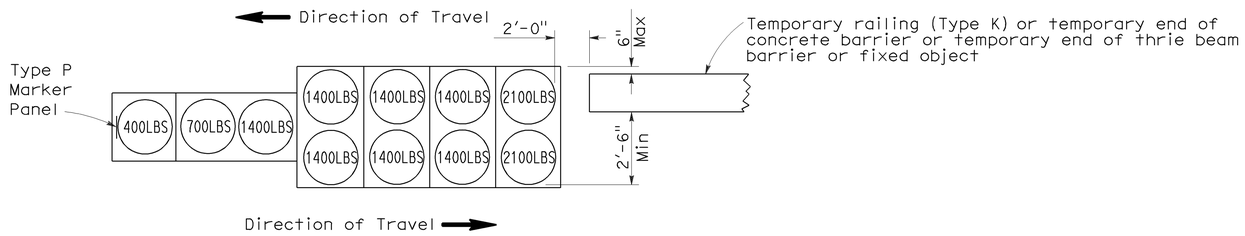
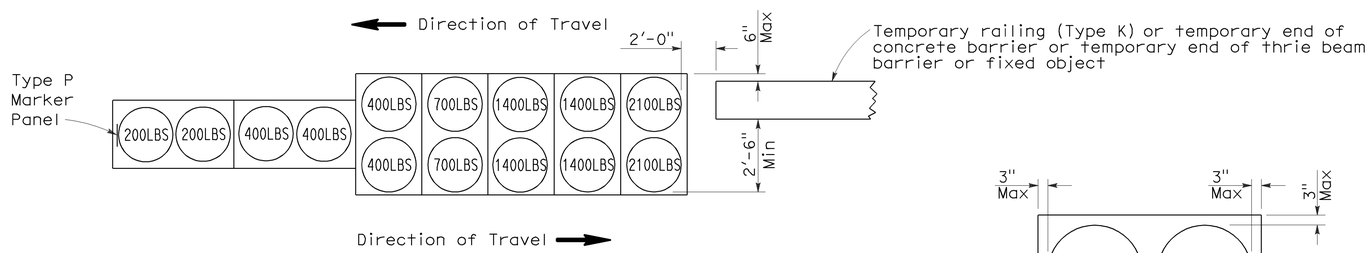
To accompany plans dated 3-6-12



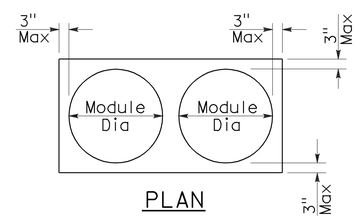
ARRAY 'TB11'

Approach speed less than 45 mph

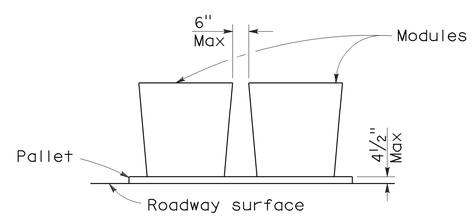


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (BIDIRECTIONAL)

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	ED	49,153	15.7/24.0, 0.0/0.6	10	11

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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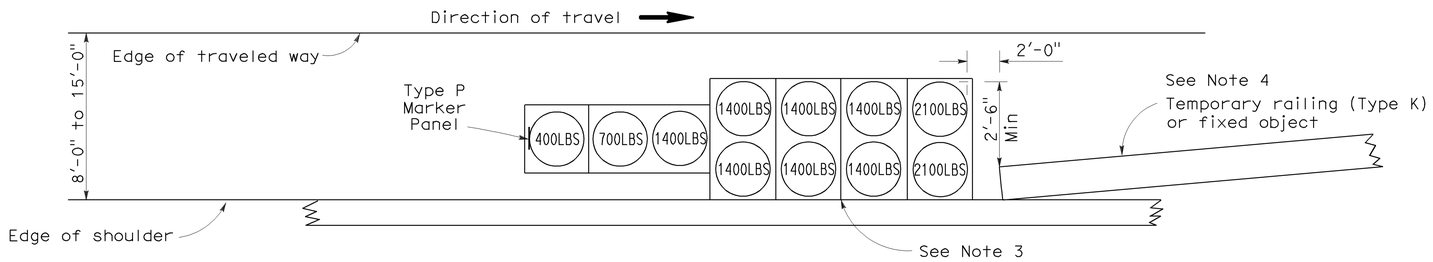
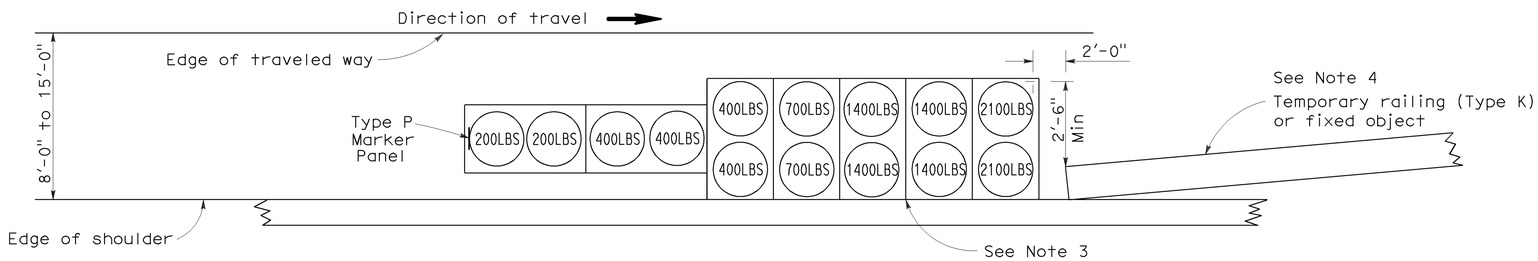
To accompany plans dated 3-6-12



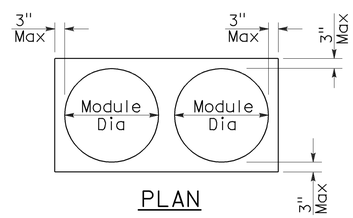
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

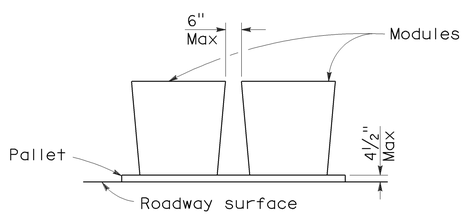


ARRAY 'TS14'

Approach speed 45 mph or more
See Note 9



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 11

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
4. If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
5. Temporary crash cushion arrays shall not encroach on the traveled way.
6. Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
7. Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
8. Refer to Standard Plan A73B for marker details.
9. For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
10. Approach speeds indicated conform to NCHRP 350 Report criteria.
11. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (SHOULDER INSTALLATIONS)

NO SCALE

RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

5-15-08

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	49,153	15.7/24.0, 0.0/0.6	11	11

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

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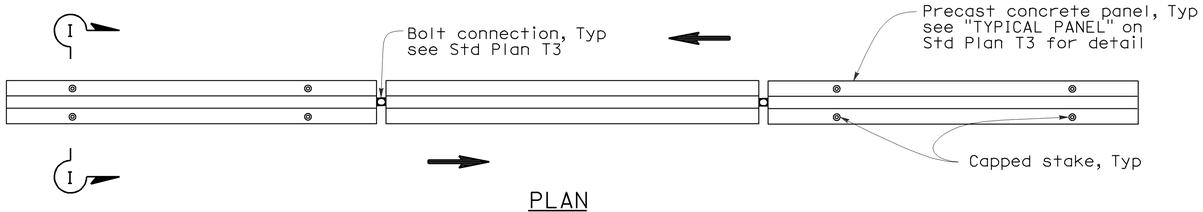
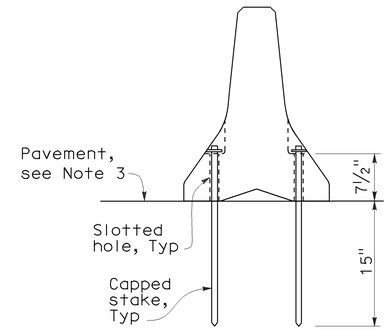
To accompany plans dated 3-6-12



PLAN

RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC

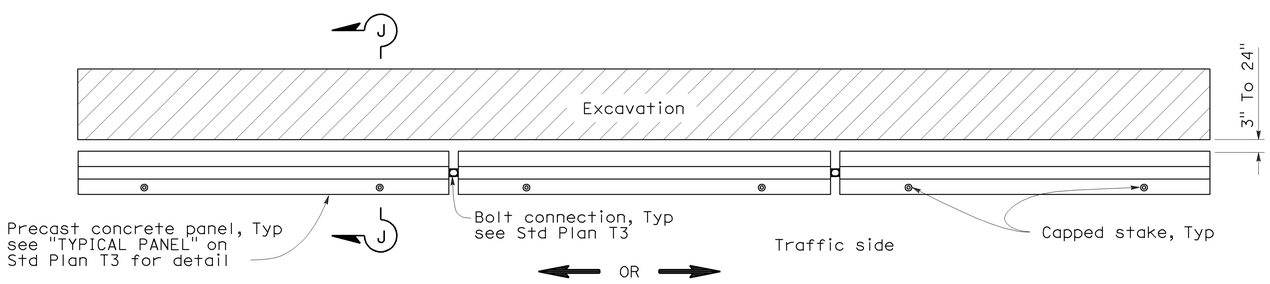
See Note 1



SECTION I-I

NOTES:

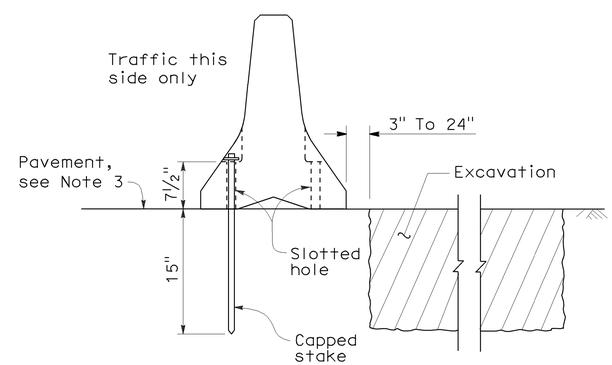
1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of an excavation on highways, use two capped stakes per panel along the traffic side.
3. Staked Type K Temporary Railing must be supported by at least 4" thick concrete, hot mix asphalt or existing asphalt concrete pavement.
4. The minimum yield strength for the washer must be 60,000 psi.
5. Direction of adjacent traffic indicated by ⟶.



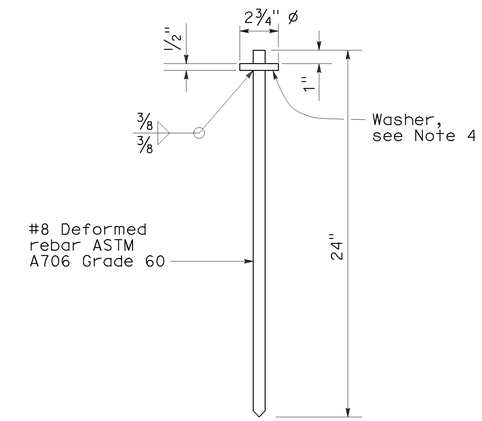
PLAN

RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION

See Note 2



SECTION J-J



CAPPED STAKE DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY RAILING (TYPE K)

NO SCALE

NSP T3A DATED MAY 20, 2011 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T3A

2006 NEW STANDARD PLAN NSP T3A