

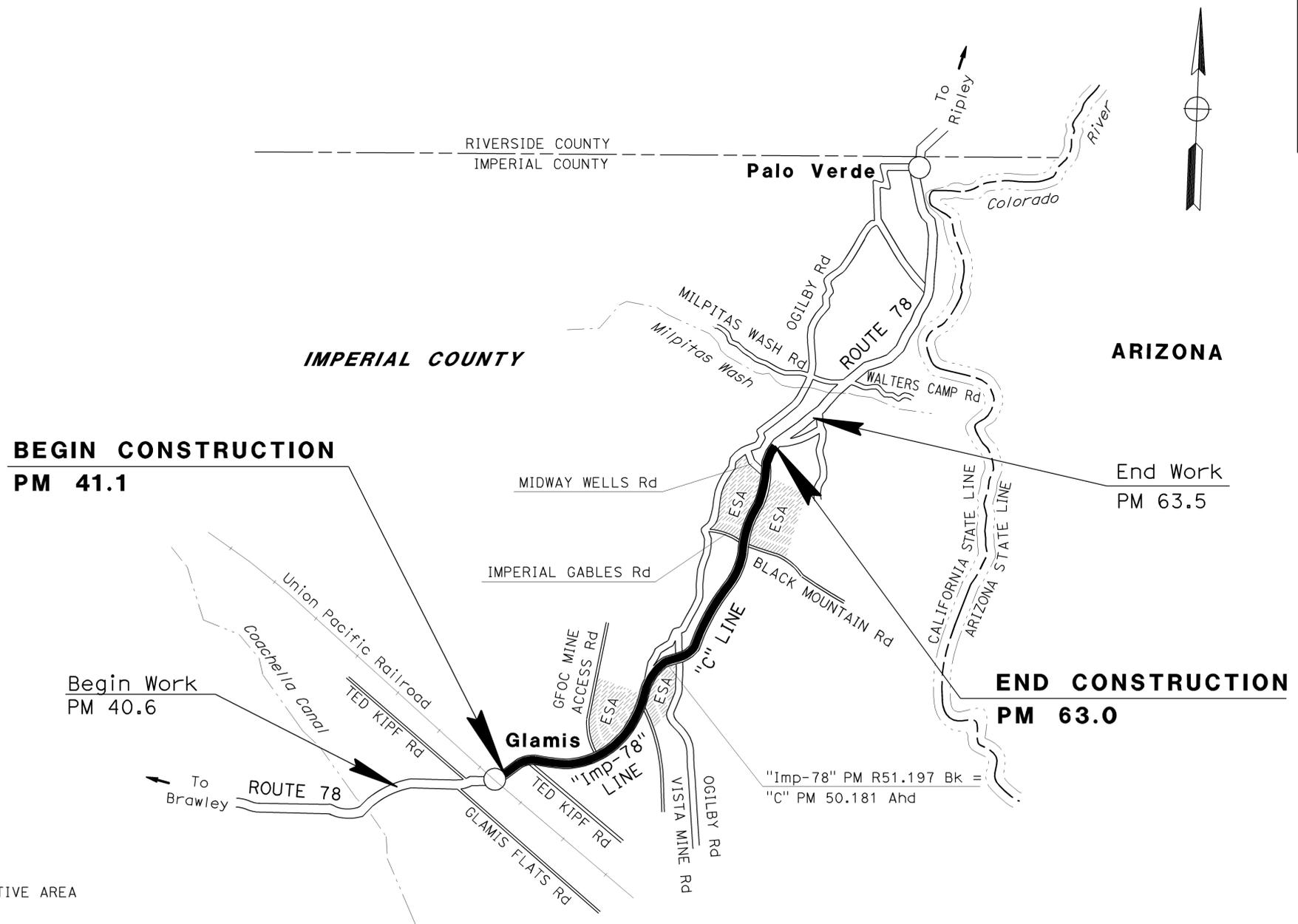
INDEX OF PLANS

Sheet No.	Description
1	Title and Location Map
2	Typical Cross Sections
3	Construction Details
4	Construction Area Signs
5-6	Pavement Delineation Details and Quantities
7-8	Summary of Quantities
9-13	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 IMPERIAL COUNTY NEAR GLAMIS
FROM UNION PACIFIC RAILROAD CROSSING
TO 0.5 MILE EAST OF MIDWAY WELLS ROAD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



= ENVIRONMENTALLY SENSITIVE AREA

PROJECT MANAGER
ARMANDO GARCIA

DESIGN ENGINEER
DAVID M. POUND

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

David M. Pound 03-11-10
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
 March 15, 2010
 PLANS APPROVAL DATE

DAVID M. POUND
 No. 47733
 Exp. 12-31-11
 CIVIL
 STATE OF CALIFORNIA

- NOTES:**
1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
 2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
 3. EXISTING UTILILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

DESIGN DESIGNATION (RAILROAD TO MIDWAY WELLS ROAD)

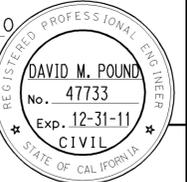
ADT - 2007 = 2389	TI = 10 (20 yrs)
ADT - 2015 = 3090	TI = 12 (40 yrs)
ADT - 2025 = 4250	D = 54%
DHV = 650	T = 12.9%

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	78	41.1/63.0	2	13

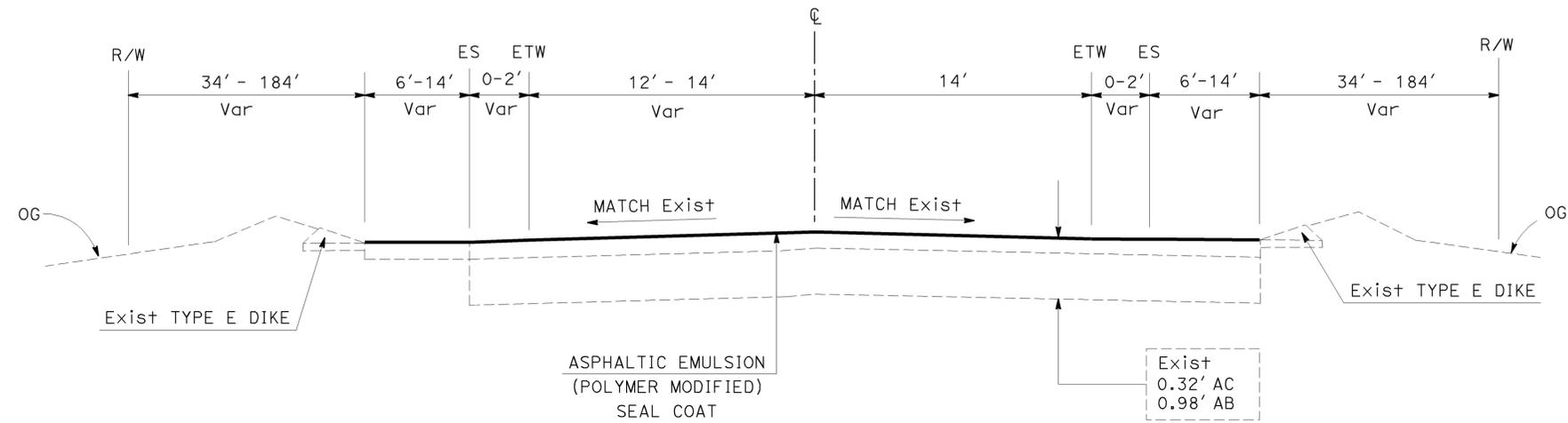
<i>David M. Pound</i>	03-11-10
REGISTERED CIVIL ENGINEER	DATE

03-15-10	
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.

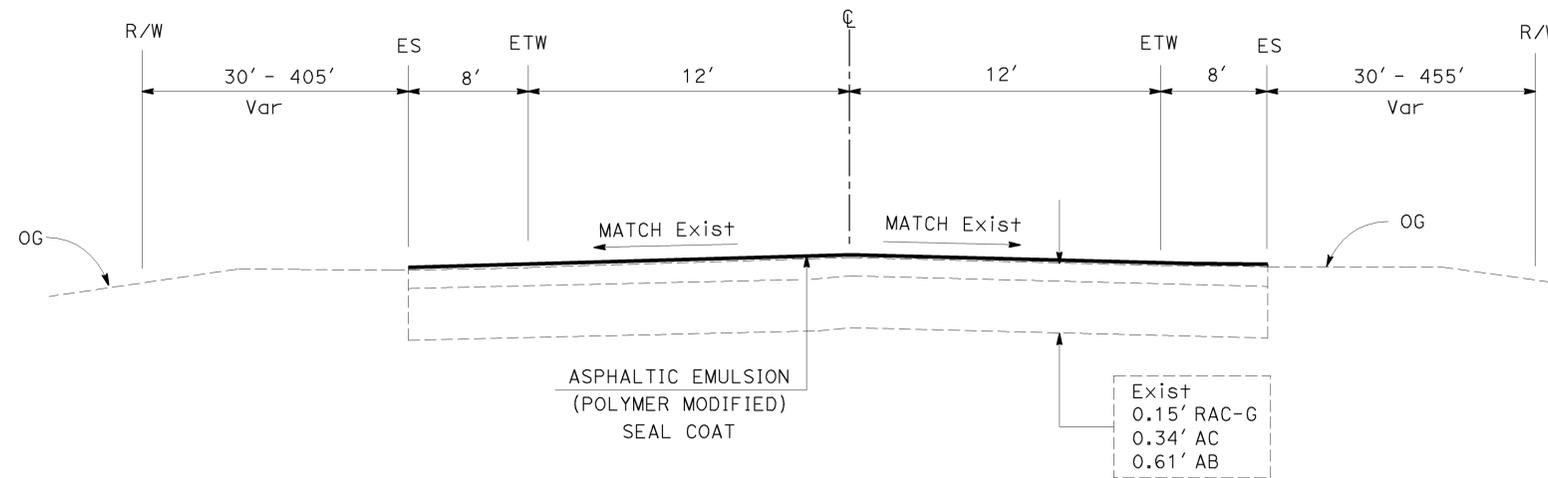


REVISOR: REBECCA IGNACIO, DAVID M. POUND
 DESIGNED BY: REBECCA IGNACIO, DAVID M. POUND
 SUPERVISOR: ARMANDO GARCIA
 TRANSPORTATION: MAINTENANCE



ROUTE 78

"C" PM 50.181 TO PM 63.000



ROUTE 78

"Imp-78" PM 41.106 TO PM R51.197

TYPICAL CROSS SECTIONS

NO SCALE

X-1



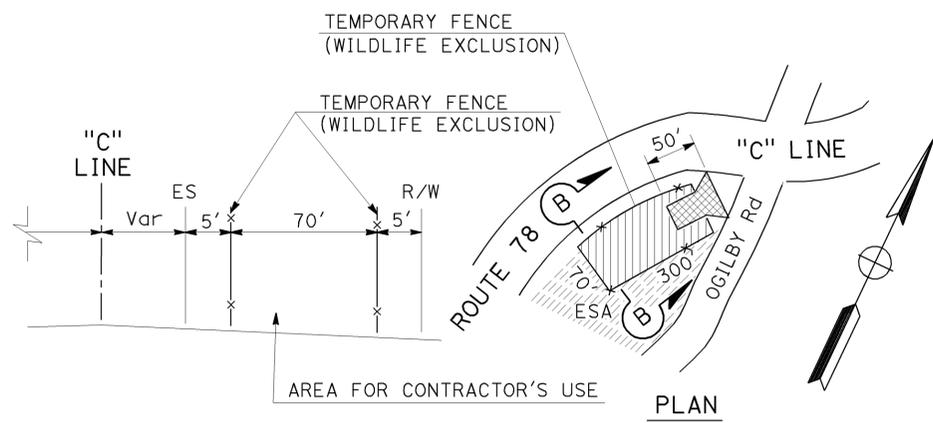
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	78	41.1/63.0	3	13

David M. Pound	11-05-09
REGISTERED CIVIL ENGINEER	DATE
03-15-10	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
 DAVID M. POUND
 No. 47733
 Exp. 12-31-11
 CIVIL
 STATE OF CALIFORNIA

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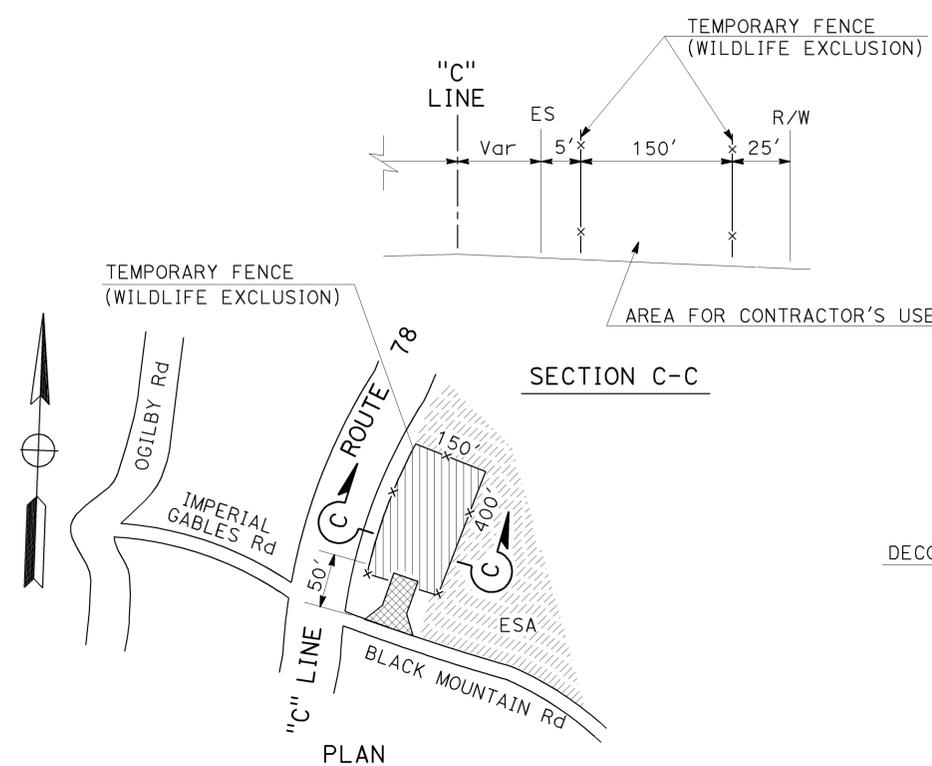
NOTE: THE EXCAVATION REQUIRED FOR THE FOUNDATION OF TEMPORARY FENCE (WILDLIFE EXCLUSION) SHALL BE DONE BY HAND.



SECTION B-B

LOCATION 2

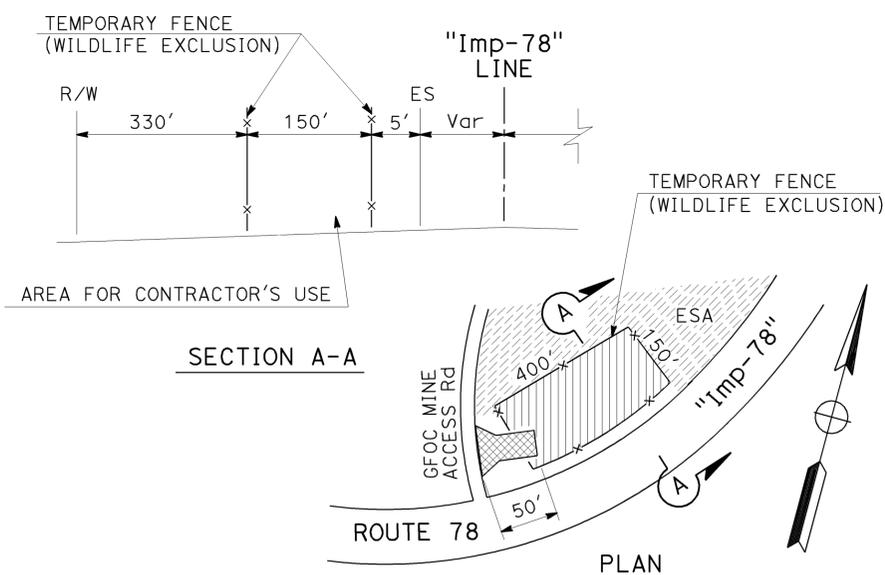
EB = PM 51.0 "C" LINE



SECTION C-C

LOCATION 3

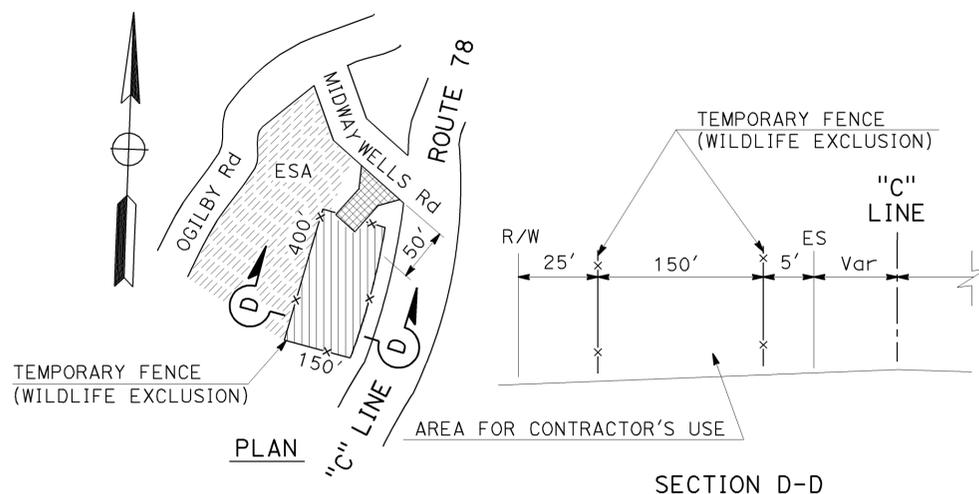
EB = PM 55.6 "C" LINE



SECTION A-A

LOCATION 1

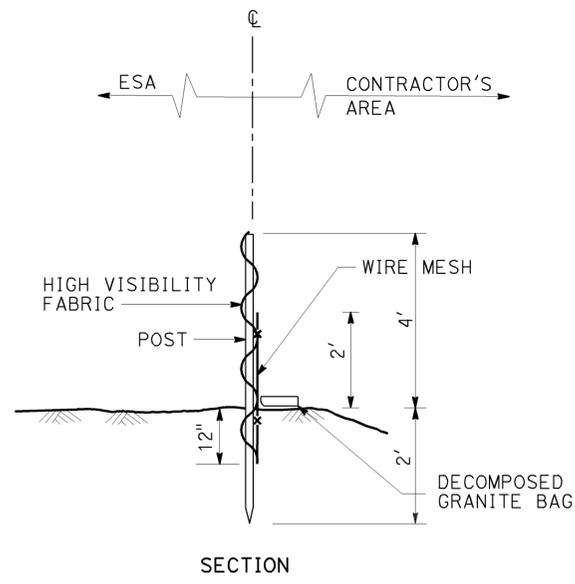
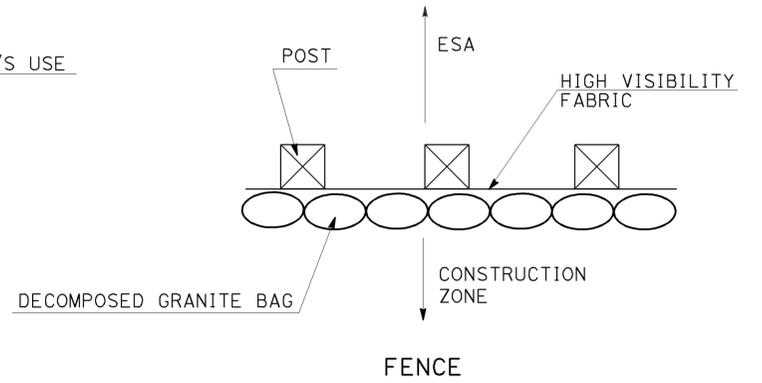
WB = PM R44.5 "Imp-78" LINE



SECTION D-D

LOCATION 4

WB = PM 60.0 "C" LINE



TEMPORARY FENCE (WILDLIFE EXCLUSION)

LEGEND:

- = AREA FOR CONTRACTOR'S USE
- = ENVIRONMENTALLY SENSITIVE AREAS
- = TEMPORARY CONSTRUCTION ENTRANCE (TYPE 1)

AREAS FOR CONTRACTOR'S USE

CONSTRUCTION DETAILS C-1

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION MAINTENANCE
 REBECCA IGNACIO
 DAVID M. POUND
 ARMANDO GARCIA
 11-19-09 14:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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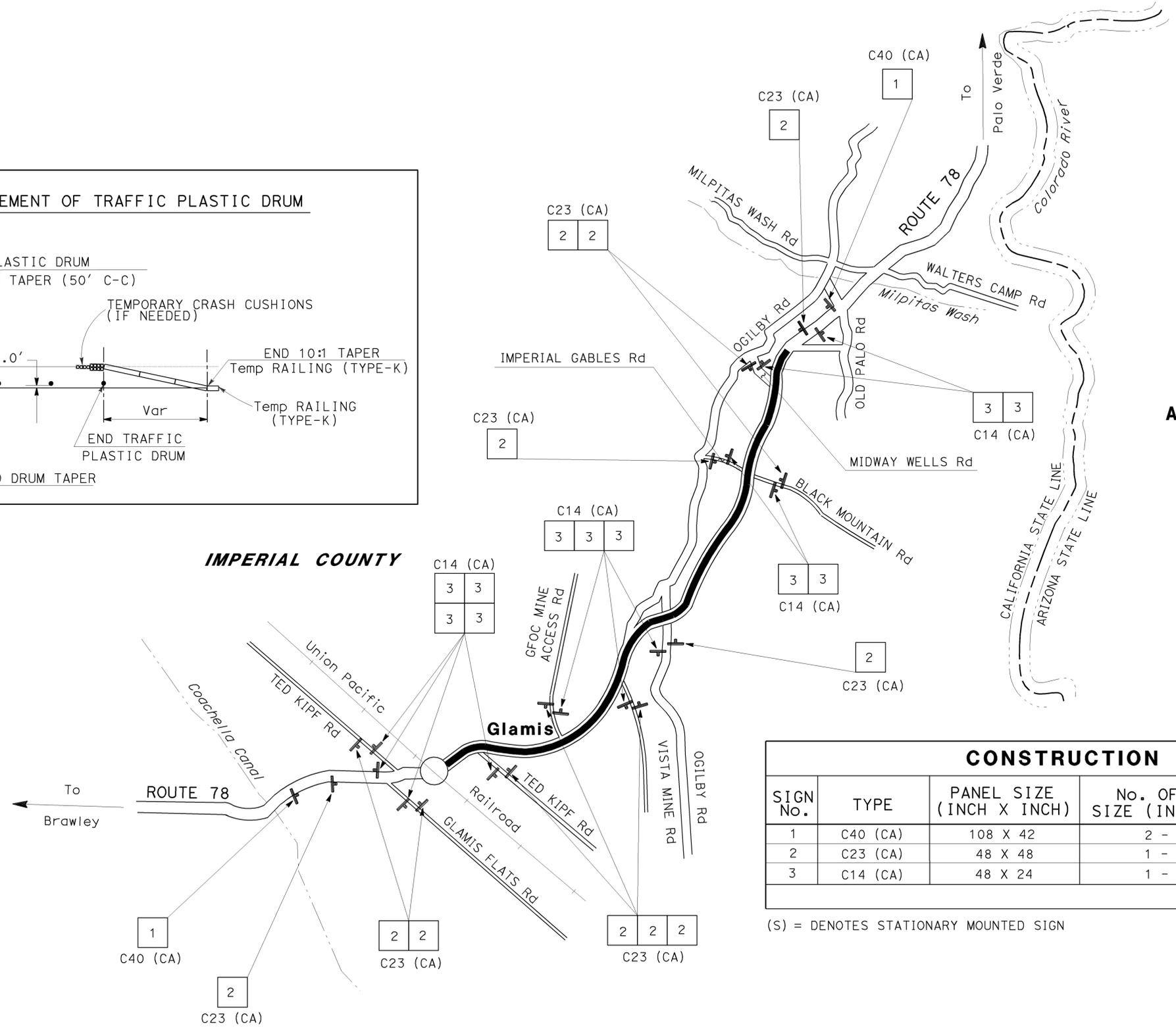
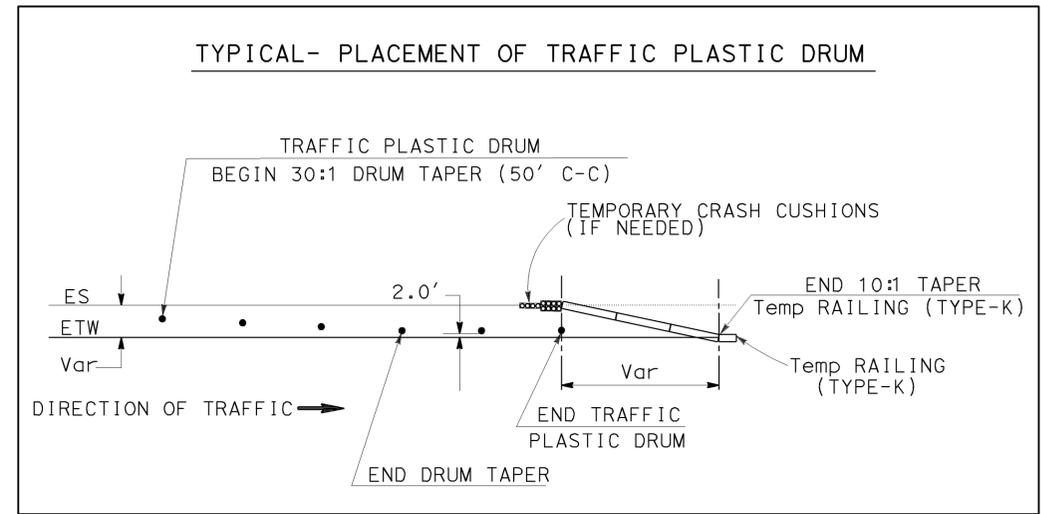
11-10-09
 REGISTERED CIVIL ENGINEER DATE
 03-15-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 SHAHIN ADIBI
 No. 54839
 Exp. 06-30-10
 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:**
- EXACT LOCATION OF CONSTRUCTION AREA SIGNS SHALL BE DETERMINED BY THE ENGINEER.
 - FEDERAL MUTCD SIGN CODES ARE SHOWN UNLESS DESIGNATED (CA) INDICATING STANDARD CALIFORNIA SIGN SPECIFICATIONS ARE USED.
 - EXISTING UTILITIES ARE NOT SHOWN ON THESE PLAN SHEETS. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES AND ADJUST THE FIELD LOCATION OF SIGN POSTS IN CONSULTATION WITH THE ENGINEER.

- LEGEND:**
- X = CONSTRUCTION AREA SIGN
 - = DIRECTION OF TRAFFIC



CONSTRUCTION AREA SIGNS					
SIGN No.	TYPE	PANEL SIZE (INCH X INCH)	No. OF POST & SIZE (INCH X INCH)	No. OF SIGNS	REMARKS
1	C40 (CA)	108 X 42	2 - 4 X 6 (S)	2	
2	C23 (CA)	48 X 48	1 - 4 X 6 (S)	11	
3	C14 (CA)	48 X 24	1 - 4 X 6 (S)	11	
TOTAL				24	

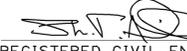
(S) = DENOTES STATIONARY MOUNTED SIGN

CONSTRUCTION AREA SIGNS
NO SCALE
CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 REBECCA IGNACIO
 IRAM SAYED
 CAMILLE ABOU-FADEL
 TRAFFIC DESIGN

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	78	41.1/63.0	5	13

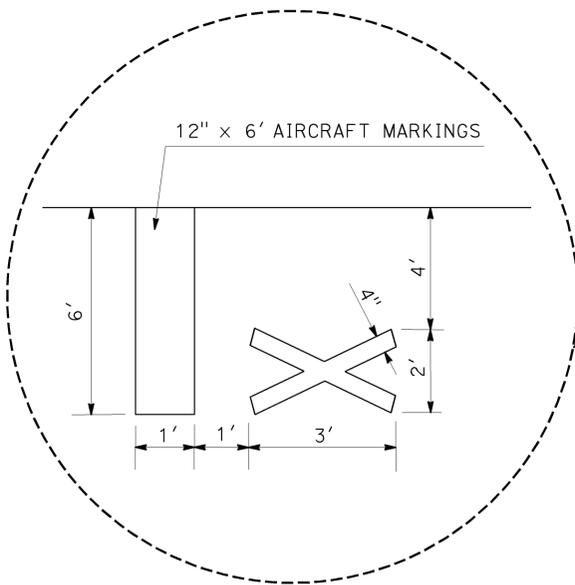
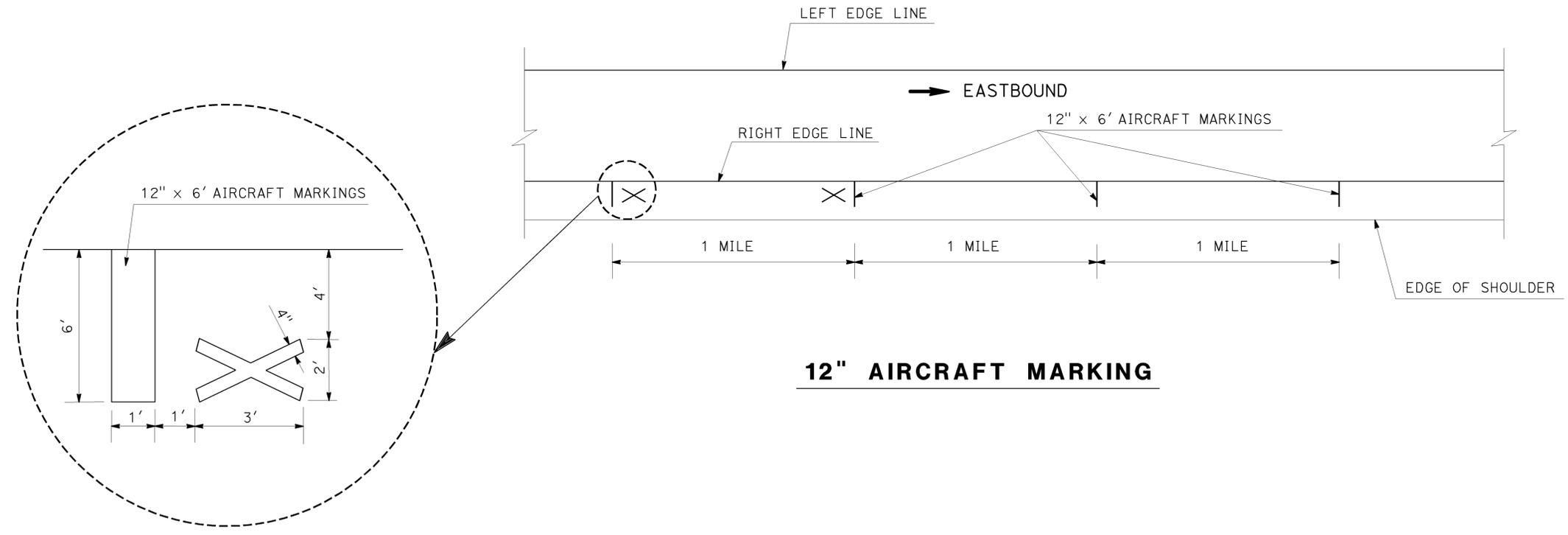
 11-10-09
 REGISTERED CIVIL ENGINEER DATE

03-15-10
 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
 SHAHIN ADIBI
 No. 54839
 Exp. 06-30-10
 CIVIL
 STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: CAMILLE ABOU-FADEL
 CALCULATED/DESIGNED BY: CHECKED BY:
 REBECCA IGNACIO IRAM SAYED
 REVISED BY: DATE: REVISED:



LEGEND:
 = DIRECTION OF TRAFFIC

PAVEMENT DELINEATION DETAILS
 NO SCALE
PDD-1

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	78	41.1/63.0	7	13

David M. POUND 03-11-10
 REGISTERED CIVIL ENGINEER DATE

03-15-10
 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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR ARMANDO GARCIA
 CALCULATED/DESIGNED BY REBECCA IGNACIO
 CHECKED BY DAVID M. POUND
 REVISED BY REBECCA IGNACIO
 DATE REVISED

TURN-OUTS/DRIVEWAYS

LINE	DIRECTION	POSTMILE LOCATION	LENGTH LF (N)	WIDTH LF (N)	AREA SQFT (N)	REMARKS
"Imp-78"	WB	R43.45	50	67	3,350	DRIVEWAY
	EB	R44.47	72	67	4,824	DRIVEWAY
	EB	R46.82	72	67	4,824	DRIVEWAY
"C"	EB	51.54	72	6	432	TURN-OUT
	EB	51.57	72	8	576	TURN-OUT
	EB	51.93	80	8	640	TURN-OUT
	EB	51.14	80	8	640	TURN-OUT
	EB	51.64	80	8	640	TURN-OUT
	EB	51.72	80	8	640	TURN-OUT
	EB	52.04	80	6	480	TURN-OUT
	EB	52.09	110	6	660	TURN-OUT
	EB	52.29	236	8	1,888	TURN-OUT
	EB	52.38	72	67	4,824	DRIVEWAY
	EB	52.57	160	6	960	TURN-OUT
	EB	52.76	60	8	480	TURN-OUT
	EB	53.44	236	8	1,888	TURN-OUT
	EB	53.73	60	8	480	TURN-OUT
	EB	54.21	210	6	1,260	TURN-OUT
	EB	54.42	236	8	1,888	TURN-OUT
	EB	54.57	110	6	660	TURN-OUT
	EB	54.71	110	8	880	TURN-OUT
	EB	54.81	110	6	660	TURN-OUT
	EB	55.05	110	6	660	TURN-OUT
	EB	55.20	110	6	660	TURN-OUT
	EB	55.45	110	8	880	TURN-OUT
	EB	55.74	80	8	640	TURN-OUT
	EB	56.40	210	8	1,680	TURN-OUT
	WB	56.40	1060	10	10,600	TURN-OUT
	EB	56.59	110	8	880	TURN-OUT
	EB	56.78	80	14	1,120	TURN-OUT
	WB	57.58	210	8	1,680	TURN-OUT
	EB	57.61	210	6	1,260	TURN-OUT
	WB	58.70	210	8	1,680	TURN-OUT
	WB	59.94	110	14	1,540	TURN-OUT
	WB	60.86	110	6	660	TURN-OUT
	WB	61.06	110	6	660	TURN-OUT
	WB	62.40	110	30	3,300	DRIVEWAY
	WB	62.90	80	8	640	TURN-OUT

DIKES

LINE	DIRECTION	POSTMILE		LENGTH	TYPE E
		BEGIN	END	LF (N)	SQFT (N)
"C"	EB	60.080	60.180	528.00	556.51
	WB	60.060	60.120	316.80	333.91
	WB	60.410	60.430	105.60	111.30
	EB	60.430	60.470	211.20	222.60
	WB	60.440	60.470	158.40	166.95
	EB	60.520	60.700	950.40	1001.72
	WB	60.500	60.680	950.40	1001.72
	EB	60.760	60.850	475.20	500.86
	WB	60.950	60.960	52.80	55.65
	EB	60.960	61.000	211.20	222.60
	EB	61.180	61.350	897.60	946.07
	WB	61.150	61.320	897.60	946.07
	EB	61.510	61.590	422.40	445.21
	WB	61.510	61.570	316.80	333.91
	EB	61.700	61.760	316.80	333.91
	WB	61.700	61.740	211.20	222.60
	EB	61.800	61.900	528.00	556.51
	EB	62.420	62.590	897.60	946.07
	EB	62.840	63.000	844.80	890.42
	WB	62.840	63.000	844.80	890.42

DRAINAGE INLET APRONS

LINE	DIRECTION	POSTMILE LOCATION	LENGTH LF (N)	WIDTH LF (N)	AREA SQFT (N)
"C"	WB	60.070	13	1	13
	EB	60.080	13	1	13
	WB	60.420	13	1	13
	EB	60.440	13	1	13
	EB	60.460	13	1	13
	WB	60.470	13	1	13
	WB	60.570	13	1	13
	EB	60.580	13	1	13
	EB	60.630	13	1	13
	WB	60.630	13	1	13
	EB	60.690	13	1	13
	EB	60.770	13	1	13
	WB	60.960	13	1	13
	EB	61.160	13	1	13
	EB	61.180	13	1	13
	EB	61.350	13	1	13
	WB	61.570	13	1	13
	EB	61.580	13	1	13
	EB	61.720	13	1	13
	WB	61.710	13	1	13
	WB	61.740	13	1	13
	EB	61.740	13	1	13
	EB	61.800	13	1	13
	EB	61.890	13	1	13
	EB	62.500	13	1	13
	EB	62.570	13	1	13
	WB	62.900	13	1	13
	EB	62.910	13	1	13

MAINTENANCE VEHICLE PULL-OUTS

LINE	DIRECTION	POSTMILE LOCATION	LENGTH LF (N)	WIDTH LF (N)	AREA SQFT (N)
"C"	EB	51.50	85	12	780
	EB	51.79	85	12	780
	WB	50.98	85	12	780
	WB	51.26	85	12	780
	EB	51.58	85	12	780
	EB	51.78	85	12	780
	WB	51.78	85	12	780
	EB	51.93	85	12	780
	EB	52.16	85	12	780
	EB	53.06	85	12	780
	EB	53.29	85	12	780
	WB	53.78	85	12	780
	EB	54.14	85	12	780
	EB	54.30	85	12	780
	EB	55.13	85	12	780
	EB	55.40	85	12	780
	EB	56.75	85	12	780
	EB	57.28	85	12	780
	EB	57.58	85	12	780
	EB	57.70	85	12	780
	EB	57.87	85	12	780
	EB	58.10	85	12	780
	WB	59.65	85	12	780
	EB	59.95	85	12	780
	EB	60.48	85	12	780
	WB	60.68	85	12	780
	EB	60.97	85	12	780
	WB	61.63	85	12	780
	WB	61.79	85	12	780
	EB	62.30	85	12	780
	EB	62.60	85	12	780
	WB	62.65	85	12	780

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR
 ARMANDO GARCIA
 CALCULATED-DESIGNED BY
 CHECKED BY
 REBECCA IGNACIO
 DAVID M. POUND
 REVISED BY
 DATE REVISED

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	78	41.1/63.0	8	13

David M. Pound 03-11-10
 REGISTERED CIVIL ENGINEER DATE
 03-15-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 DAVID M. POUND
 No. 47733
 Exp. 12-31-11
 CIVIL
 STATE OF CALIFORNIA

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TEMPORARY FENCE (WILDLIFE EXCLUSION)						TEMPORARY CONSTRUCTION ENTRANCE
LOCATION	ROUTE	DIRECTION	LINE	POSTMILE	LF	(TYPE 1) EA
1	78	WB	"Imp-78"	R44.5	1100	1
2		EB	"C"	51.0	740	1
3		EB	"C"	55.6	1100	1
4		WB	"C"	60.0	1100	1
TOTAL					4040	4

TEMPORARY DRAINAGE INLET PROTECTION			
LINE	LOCATION		TYPE 5 (EA)
	DIRECTION	POSTMILE	
"C" LINE	EB	56.79	1
	WB	60.07	1
	EB	60.08	1
	WB	60.42	1
	EB	60.44	1
	EB	60.46	1
	WB	60.47	1
	WB	60.57	1
	EB	60.58	1
	EB	60.63	1
	WB	60.63	1
	EB	60.69	1
	EB	60.77	1
	EB	60.96	1
	WB	61.16	1
	EB	61.18	1
	EB	61.35	1
	WB	61.57	1
	EB	61.58	1
	EB	61.72	1
WB	61.71	1	
WB	61.74	1	
EB	61.74	1	
EB	61.80	1	
EB	61.89	1	
EB	62.50	1	
EB	62.57	1	
WB	62.90	1	
EB	62.91	1	
TOTAL			29

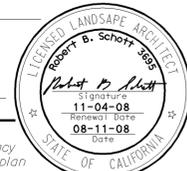
ASPHALTIC EMULSION (POLYMER MODIFIED) SEAL COAT												
LINE	POSTMILE		TRAVELED WAY LENGTH	TRAVELED WAY WIDTH	SHOULDER WIDTH		AREA	ASPHALTIC EMULSION (POLYMER MODIFIED)	SCREENINGS (MEDIUM)	ASPHALTIC EMULSION (FOG SEAL COAT)	SAND COVER	REMARKS
	BEGIN	END			LF (N)	LF (N)						
			LF (N)	LF (N)	LF (N)	LF (N)	SQFT (N)	TON	TON	TON	TON	
"Imp-78"	41.106	R51.197	53,280.48	24.00	8.00	8.00	2,131,219	338.29	3552.03	57.99	473.60	
"C"	50.180	51.000	4,329.60	24.00	2.00	2.00	121,229	19.24	202.05	3.30	26.94	
	51.000	52.263	6,668.64	24.00	0.00	0.00	160,047	25.40	266.75	4.36	35.57	
	52.263	52.348	448.80	27.00	2.00	2.00	13,913	2.21	23.19	0.38	3.09	
	52.348	58.190	30,845.76	27.00	2.00	2.00	956,219	151.78	1593.70	26.02	212.49	
	58.190	60.180	10,507.20	28.00	2.00	2.00	336,230	53.37	560.38	9.15	74.72	
	60.180	60.210	158.40	28.00	0.00	2.00	4,752	0.75	7.92	0.13	1.06	
	60.210	61.700	7,867.20	28.00	0.00	0.00	220,282	34.97	367.14	5.99	48.95	
	61.700	63.000	6,864.00	24.00	2.00	0.00	178,464	28.33	297.44	4.86	39.66	
DIKES							10,685			0.29	-	
DRAINAGE INLET APRONS							364			0.01	-	
TURN-OUTS/DRIVEWAYS							62,114			1.34	-	
MAINTENANCE VEHICLE PULL-OUTS							24,960			0.68	-	
TOTAL								654.34	6870.60	114.50	916.08	

SUMMARY OF QUANTITIES

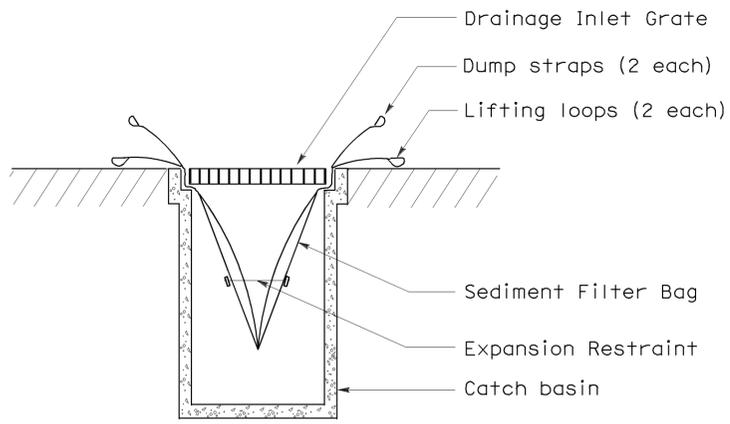
Q-2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	78	41.1/63.0	9	13

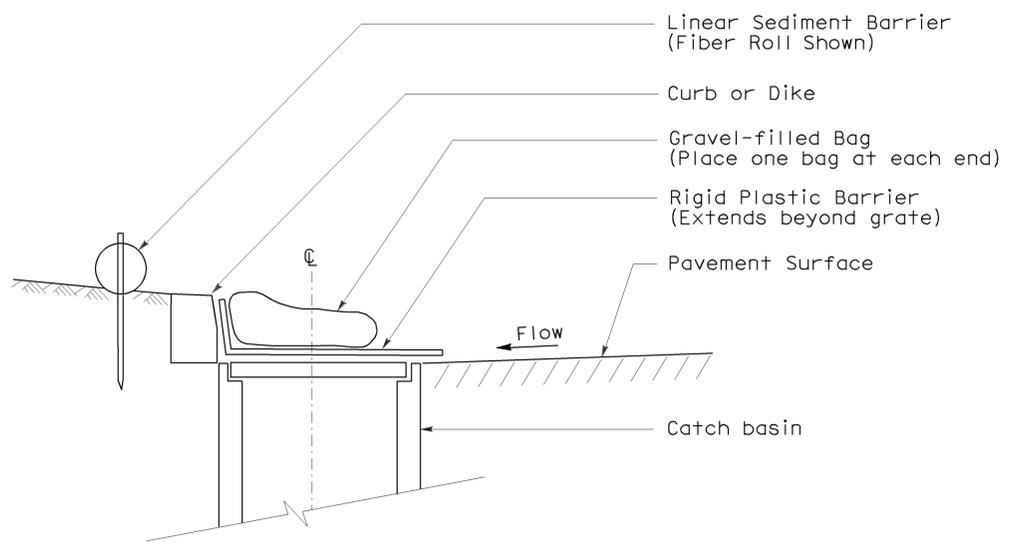
Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 August 15, 2008
 PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



To accompany plans dated 03-15-10

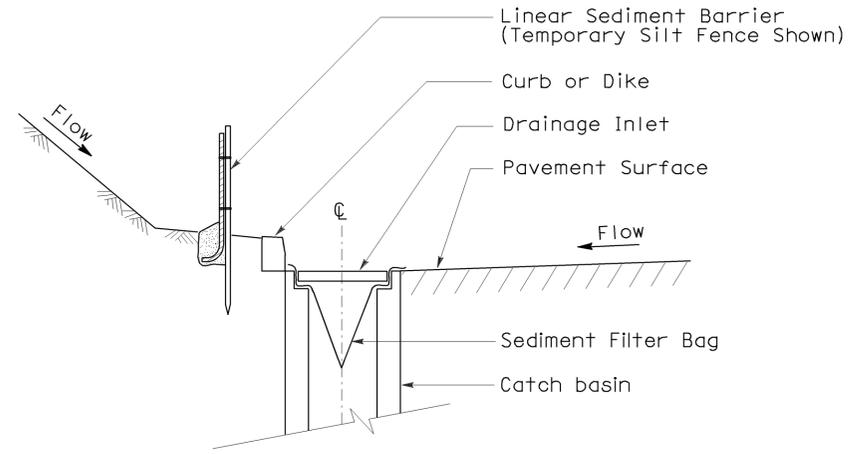


SECTION B-B
SEDIMENT FILTER BAG DETAIL

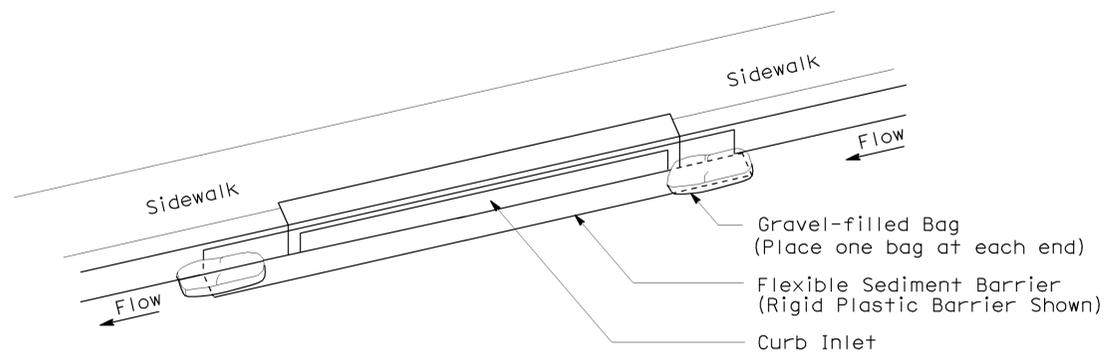


SECTION
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 6A)
(CATCH BASIN WITH GRATE)

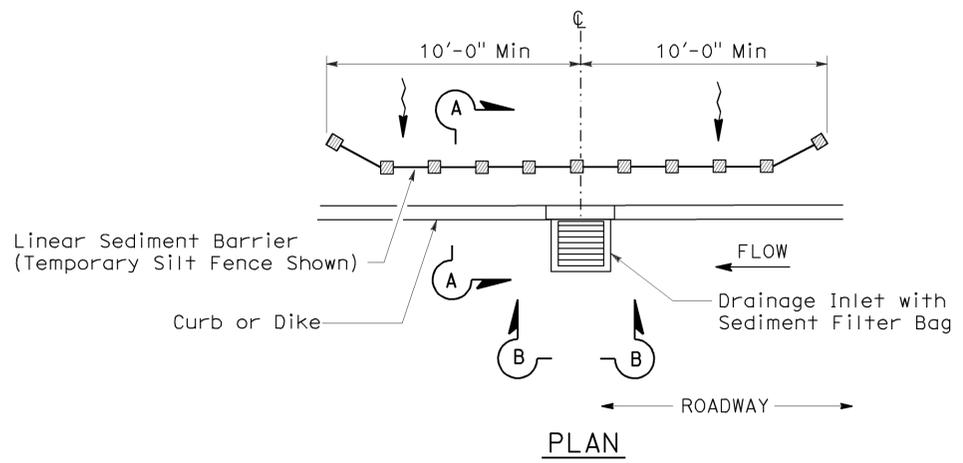
- NOTES:**
1. See Standard Plan T51 for Temporary Silt Fence.
 2. Dimensions may vary to fit field conditions.



SECTION A-A



PERSPECTIVE
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 6B)
(CURB INLET WITHOUT GRATE)



PLAN
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 5)
(SEDIMENT FILTER BAG)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE

NSP T64 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T64

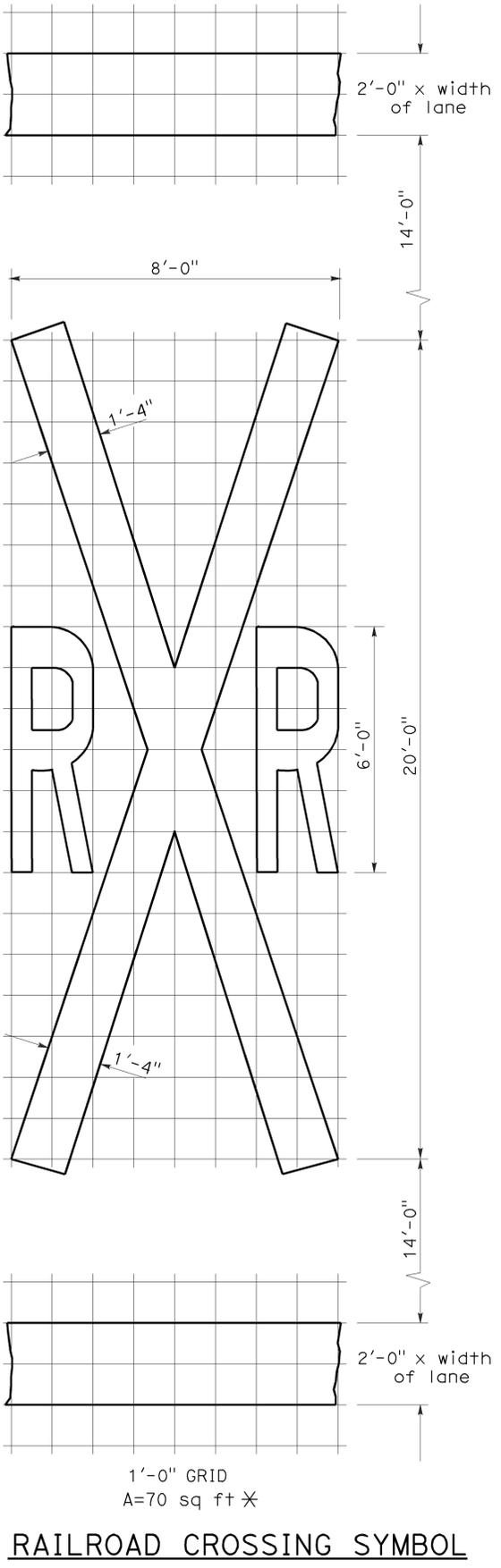
2006 NEW STANDARD PLAN NSP T64

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	78	41.1/63.0	10	13

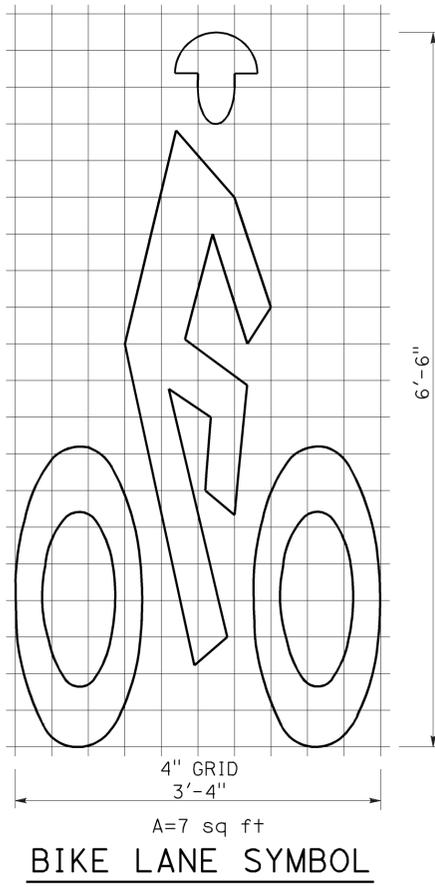
Donald E. Howe
 REGISTERED CIVIL ENGINEER
 June 6, 2008
 PLANS APPROVAL DATE

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

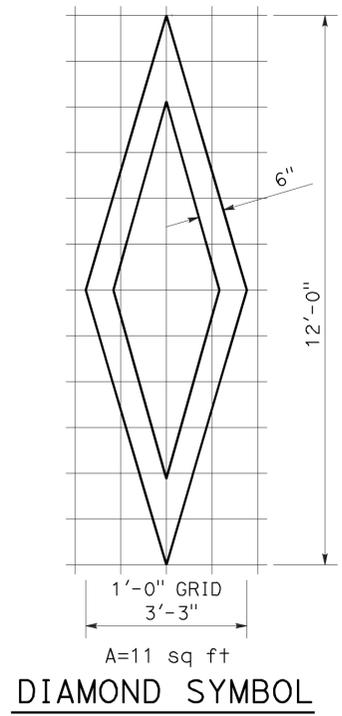
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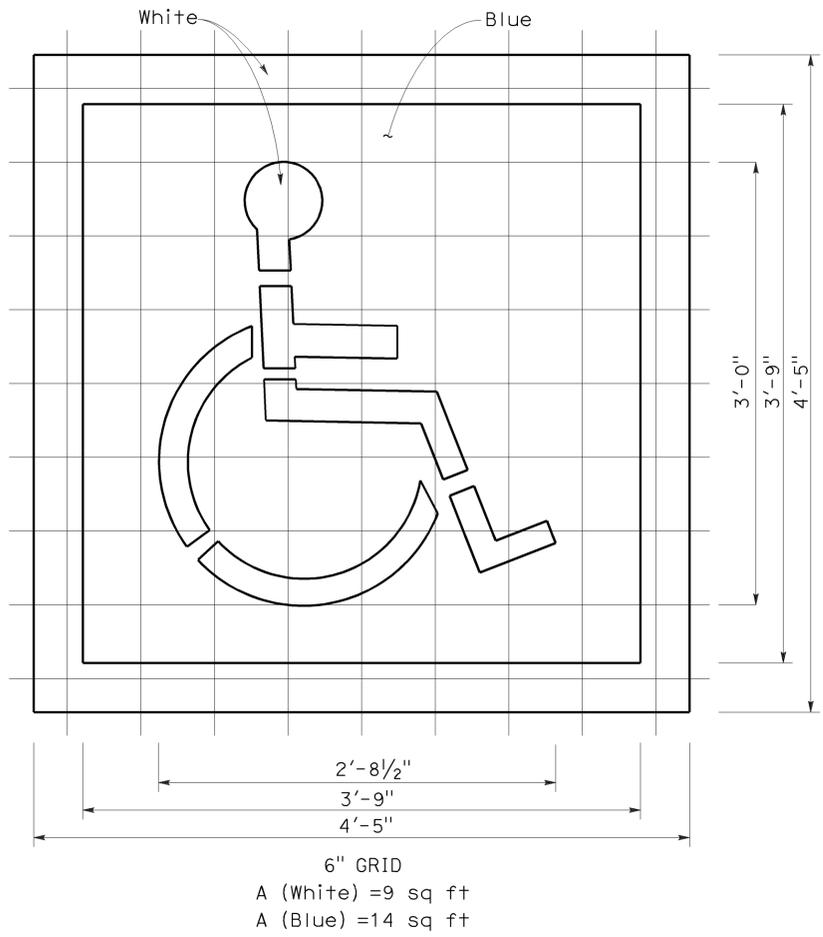
RAILROAD CROSSING SYMBOL
 ✕70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.



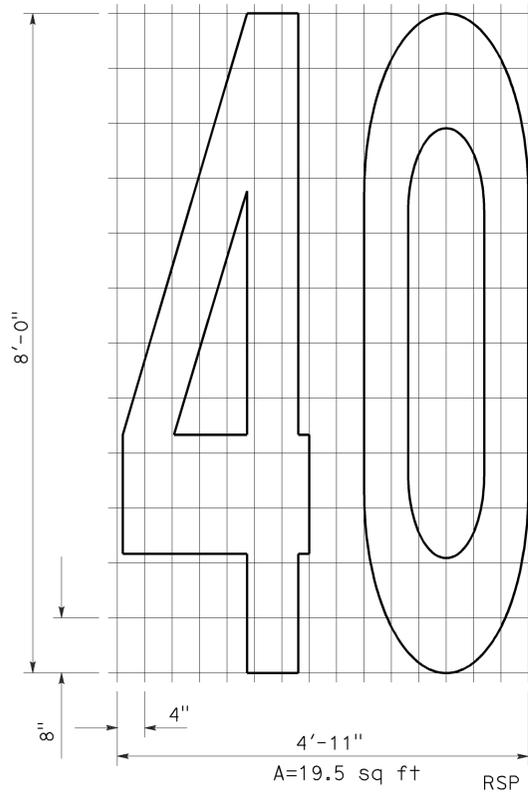
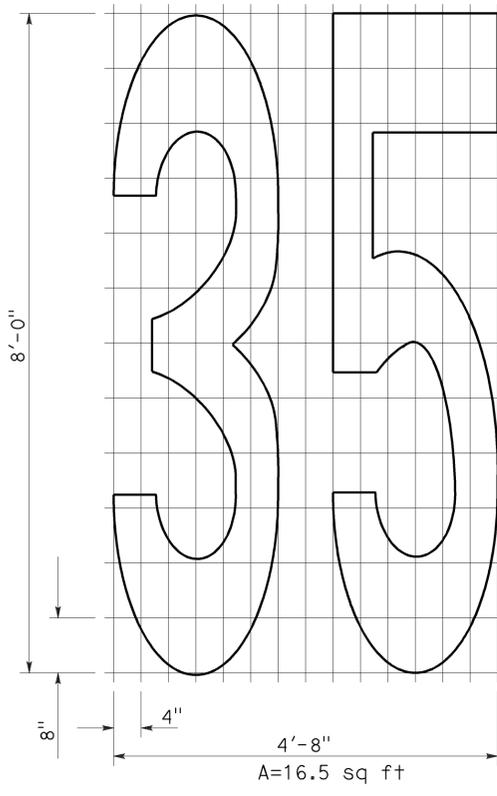
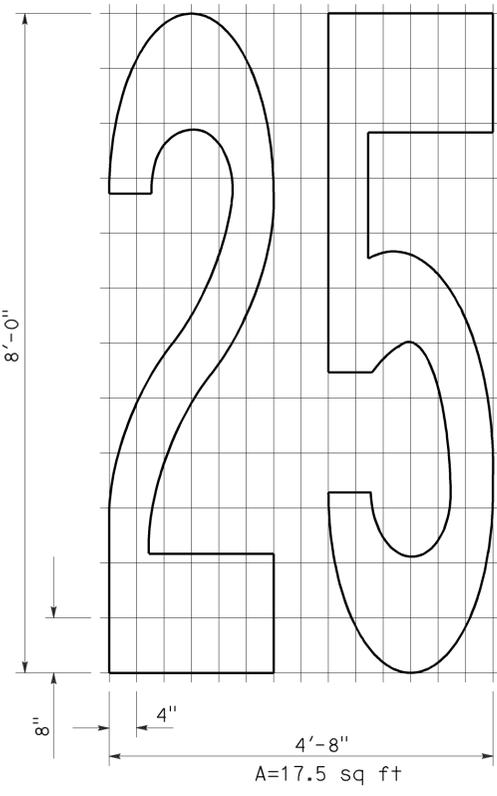
BIKE LANE SYMBOL



DIAMOND SYMBOL

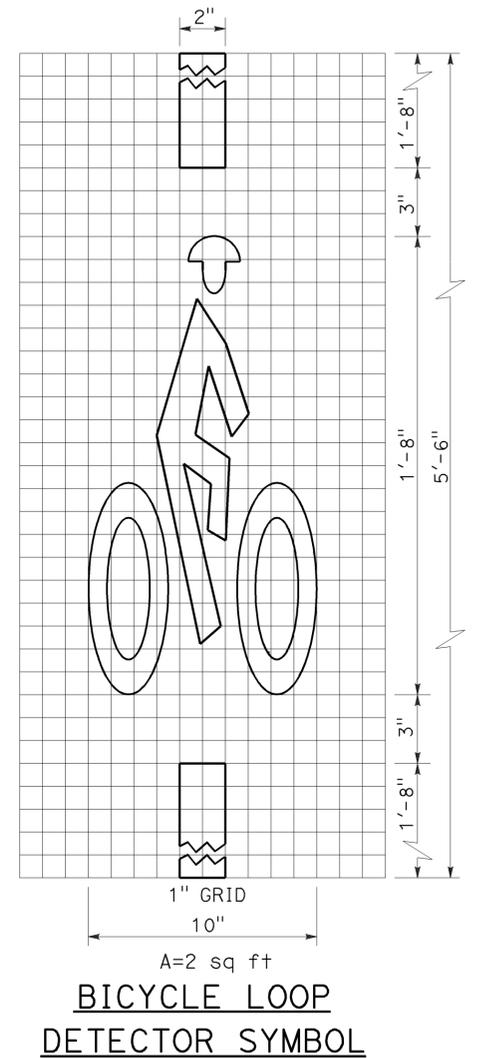


INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING



NUMERALS

To accompany plans dated 03-15-10



BICYCLE LOOP DETECTOR SYMBOL

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.

2006 REVISED STANDARD PLAN RSP A24C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	78	41.1/63.0	11	13

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

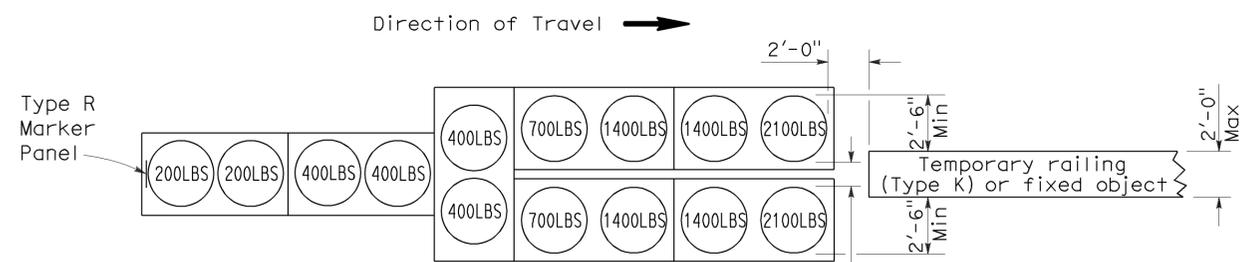
June 6, 2008
PLANS APPROVAL DATE

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

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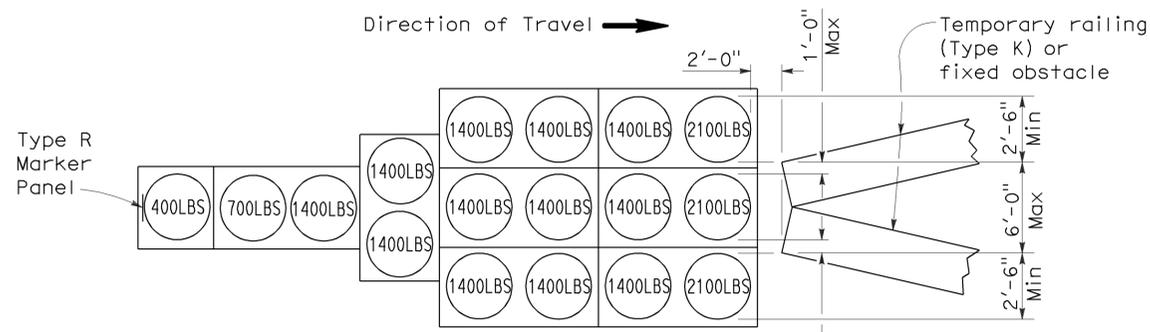
To accompany plans dated 03-15-10

2006 REVISED STANDARD PLAN RSP T1A



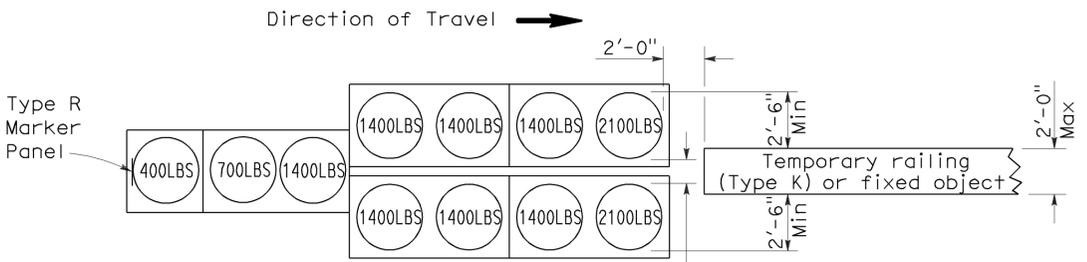
ARRAY 'TU14'

Approach speed 45 mph or more



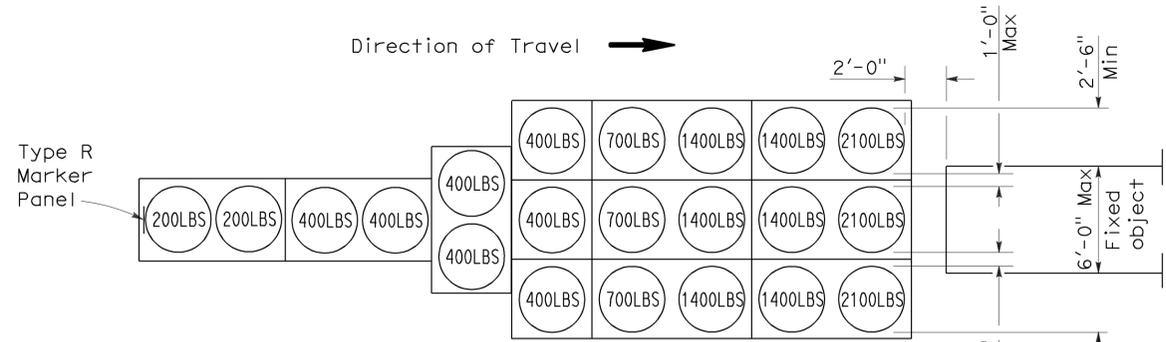
ARRAY 'TU17'

Approach speed less than 45 mph



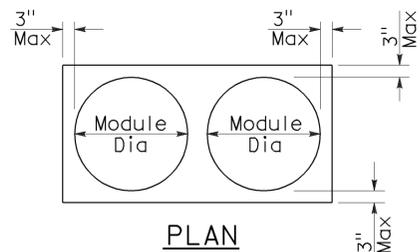
ARRAY 'TU11'

Approach speed less than 45 mph

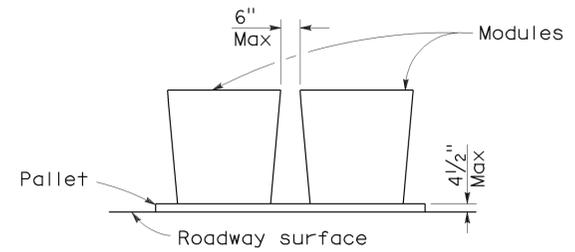


ARRAY 'TU21'

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	78	41.1/63.0	12	13

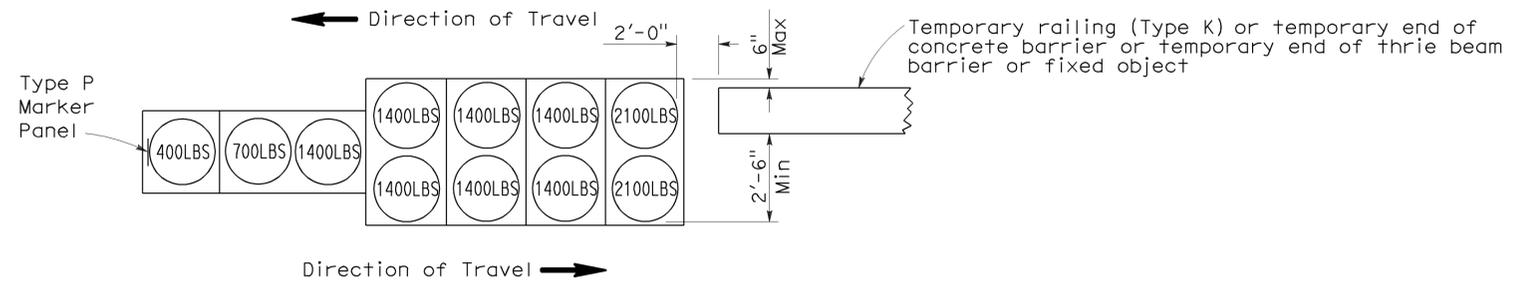
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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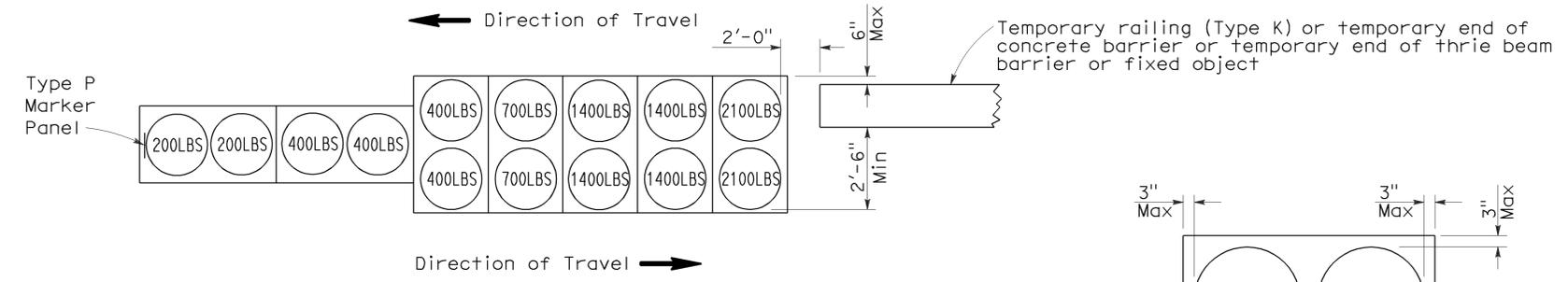
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 03-15-10



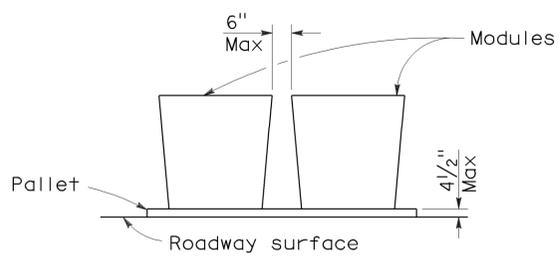
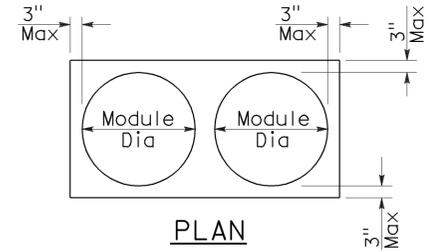
ARRAY 'TB11'

Approach speed less than 45 mph



ARRAY 'TB14'

Approach speed 45 mph or more



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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	78	41.1/63.0	13	13

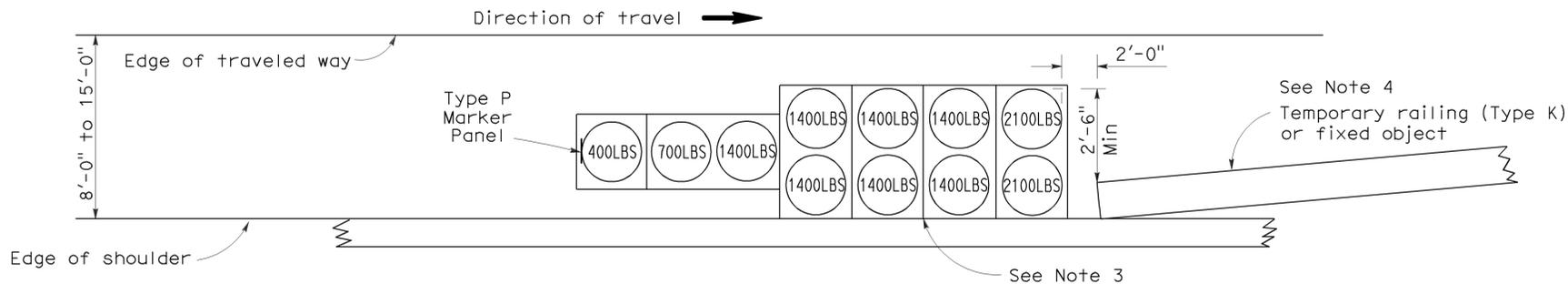
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

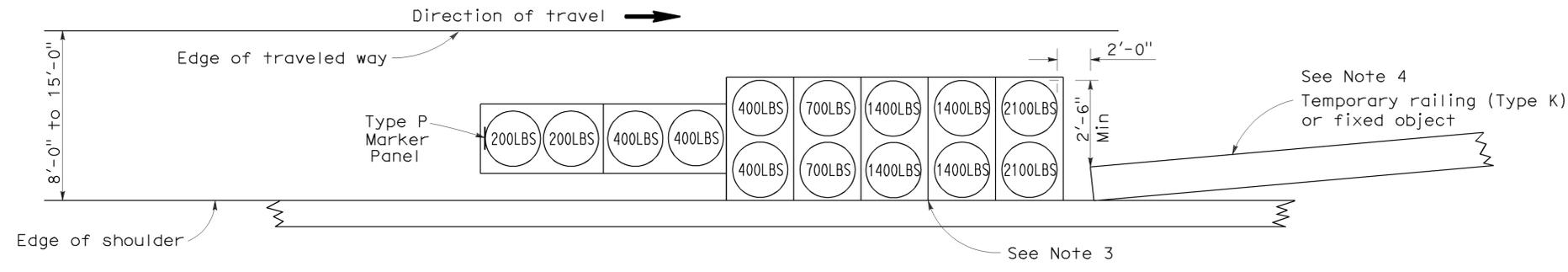
Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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To accompany plans dated 03-15-10



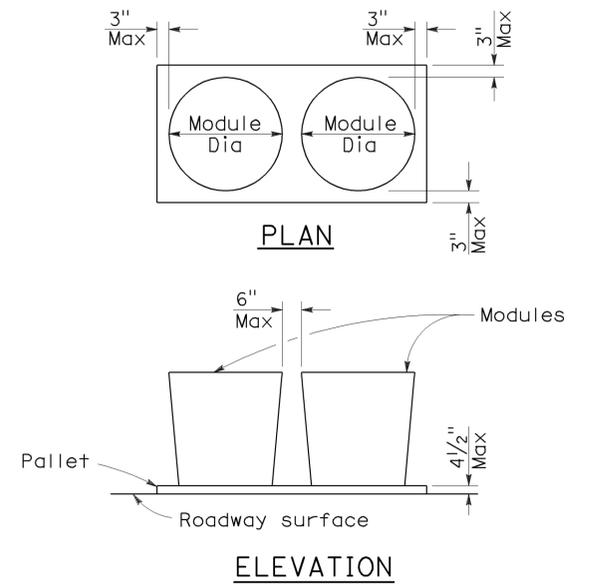
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



ARRAY 'TS14'
Approach speed 45 mph or more
See Note 9

NOTES:

- (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.
- All sand weights are nominal.
- 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.
- 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.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
- Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- 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.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- Use of pallets is optional.



CRASH CUSHION PALLET DETAIL
See Note 11

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