

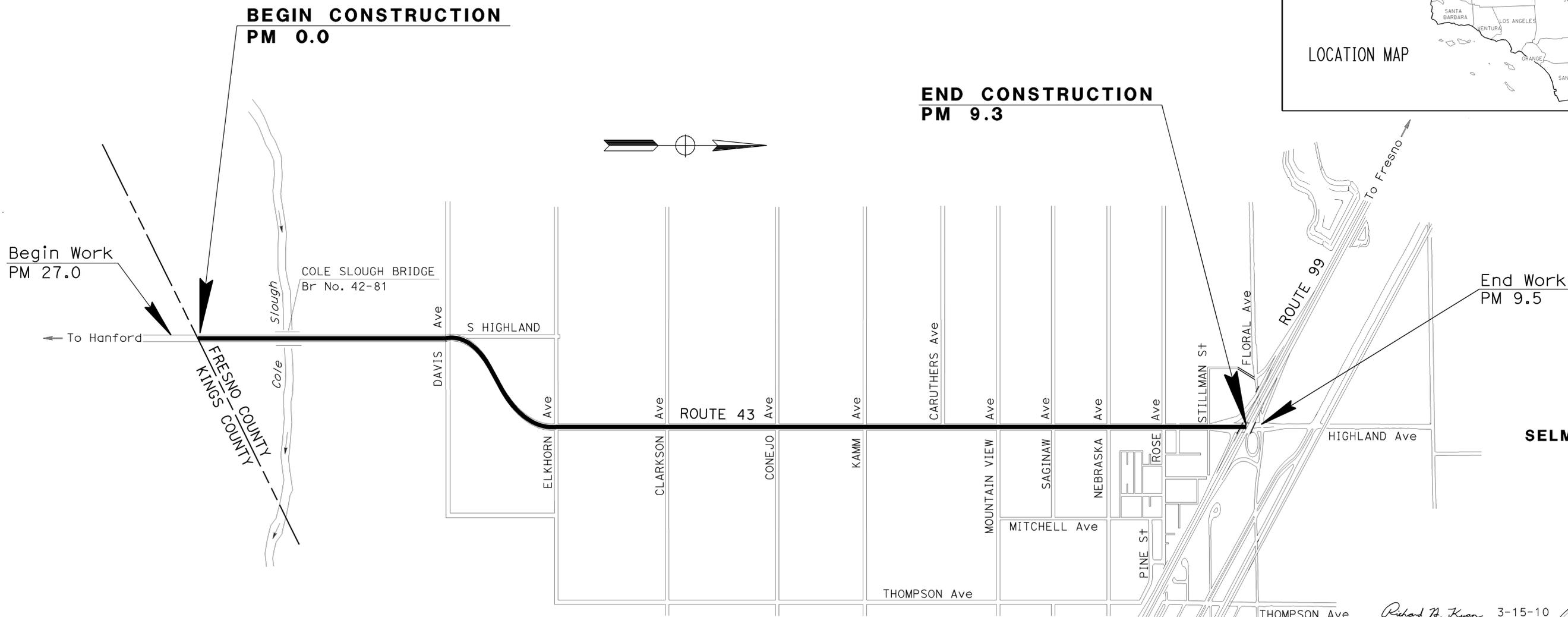
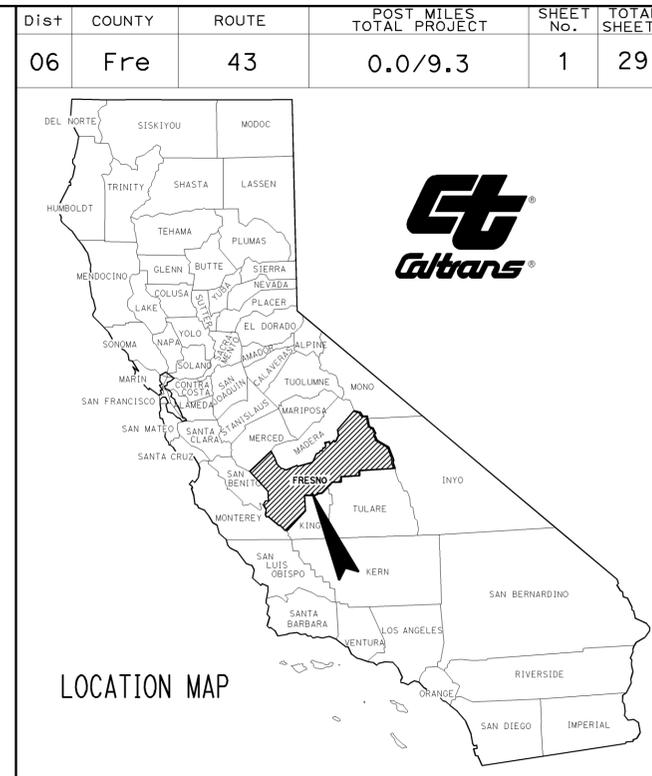
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3-7	CONSTRUCTION DETAILS
8	CONSTRUCTION AREA SIGNS
9-11	TRAFFIC HANDLING QUANTITIES
12-14	PAVEMENT DELINEATION QUANTITIES
15	SUMMARY OF QUANTITIES
16-19	ELECTRICAL PLANS
20-29	REVISED STANDARD PLANS

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

STATE OF CALIFORNIA ACSTP-P043(037)E
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN FRESNO COUNTY NEAR SELMA
FROM KINGS/FRESNO COUNTY LINE TO ROUTE 99

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



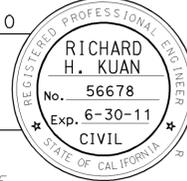
NO SCALE

PROJECT MANAGER

DESIGN ENGINEER

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

Richard H. Kuan 3-15-10
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER



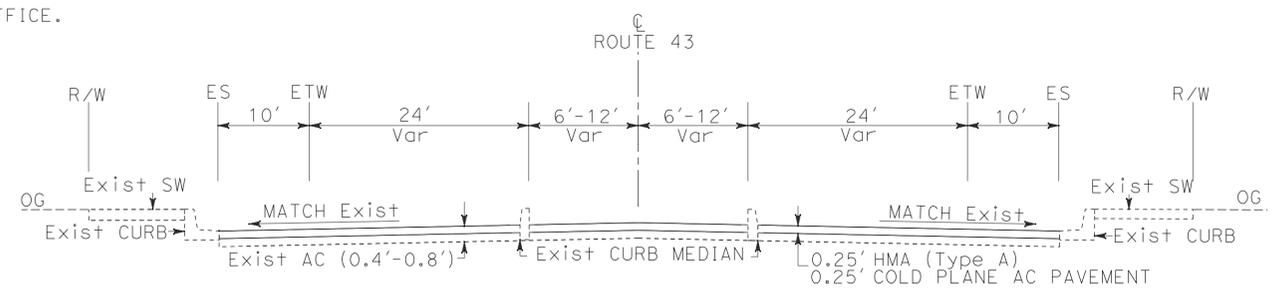
May 3, 2010
 PLANS APPROVAL DATE

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.

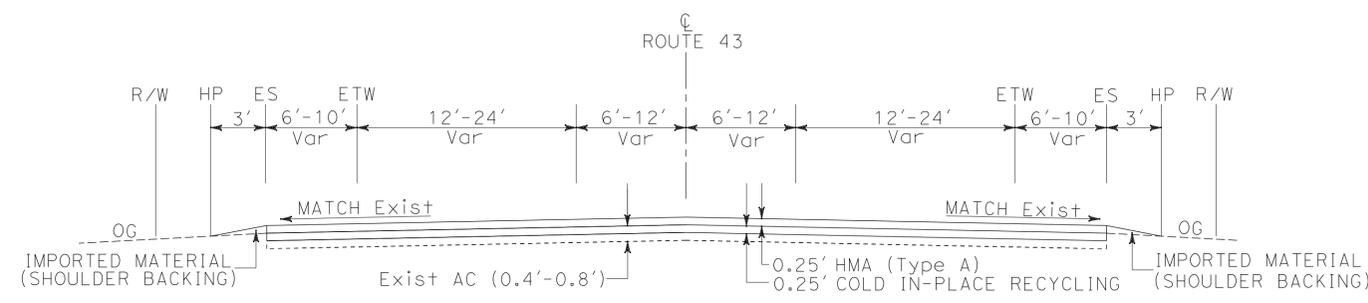
CONTRACT No.	06-459904
PROJECT ID	060000451

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	43	0.0/9.3	2	29
<i>Richard H. Kuan</i> 3-15-10 REGISTERED CIVIL ENGINEER DATE			RICHARD H. KUAN No. 56678 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA		
5-03-10 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>					

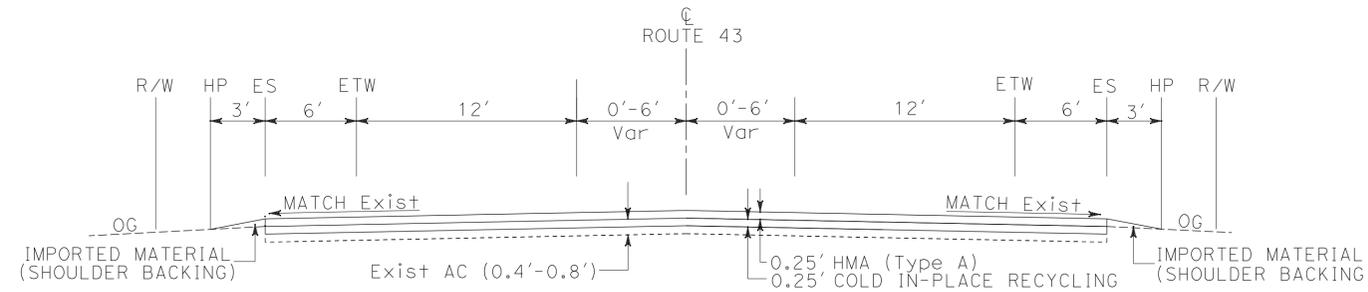
- NOTES:
- DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
 - SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
 - FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



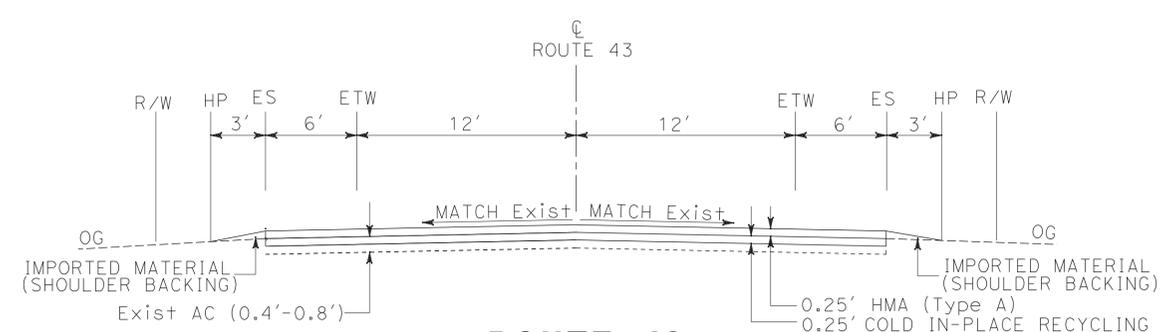
ROUTE 43
 PM 8.34 TO PM 9.30
 NORTH OF NEBRASKA AVENUE TO ROUTE 99



ROUTE 43
 PM 7.80 TO PM 8.34
 SOUTH OF NEBRASKA AVENUE TO NORTH OF NEBRASKA AVENUE



ROUTE 43
 PM 4.33 TO PM 7.80
 CLARKSON AVENUE TO SOUTH OF NEBRASKA AVENUE

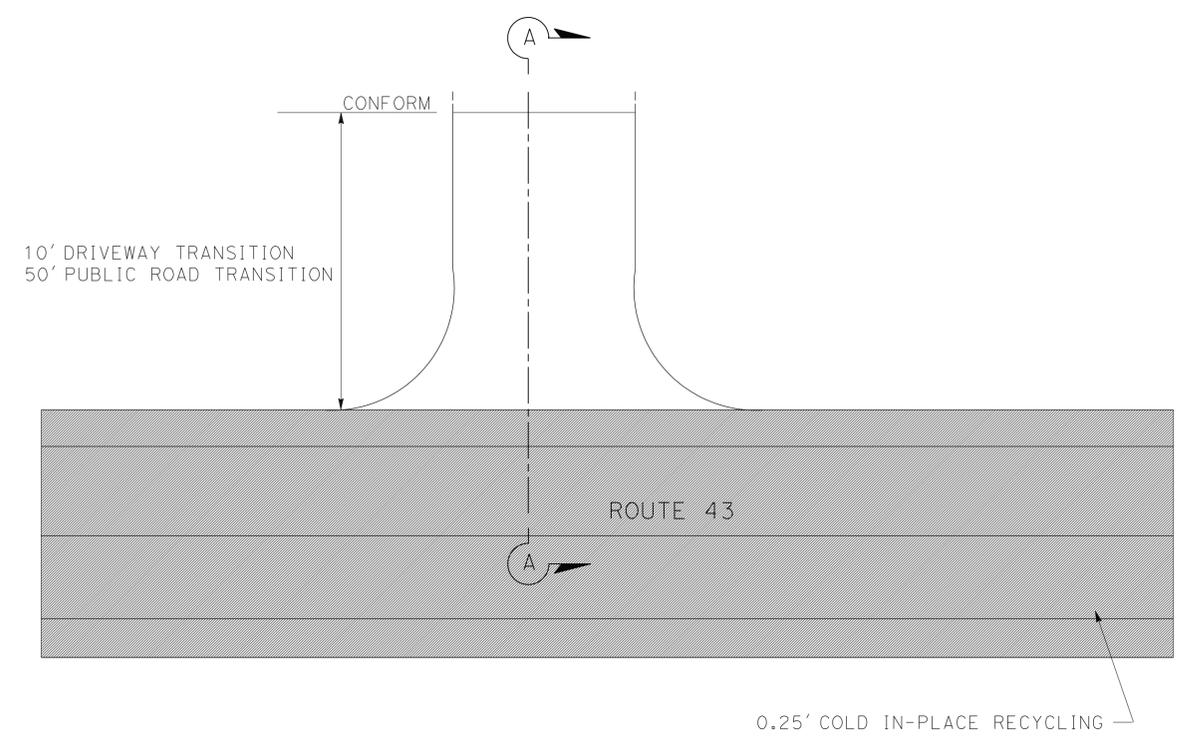
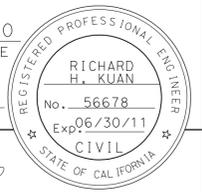


ROUTE 43
 PM 0.00 TO PM 4.33
 FRESNO COUNTY LINE TO CLARKSON AVENUE

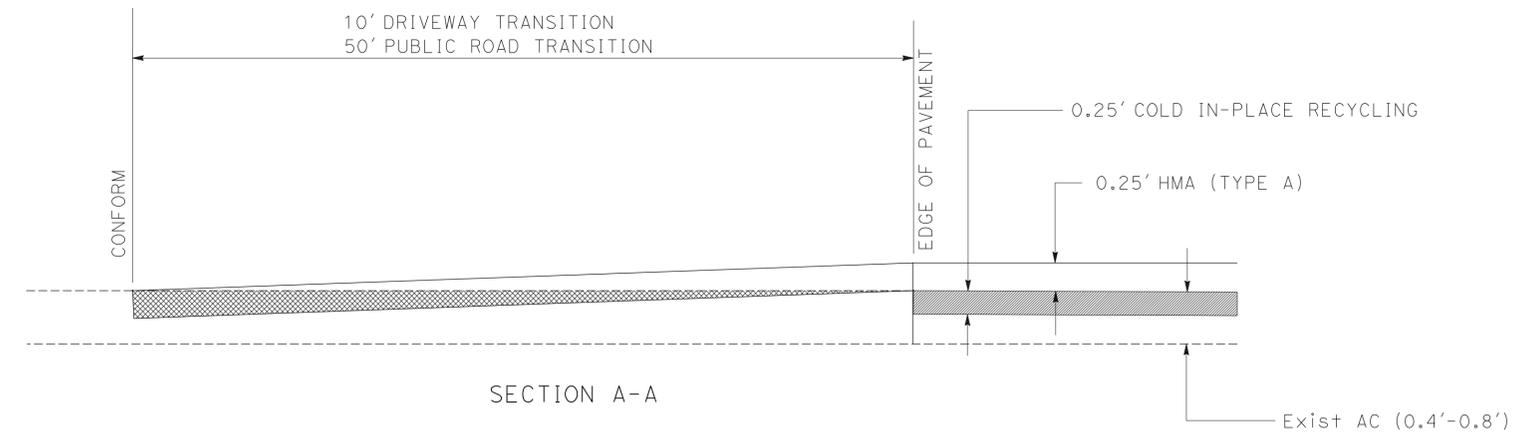
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN
 FUNCTIONAL SUPERVISOR: ALI ALOATAMI
 CALCULATED/DESIGNED BY: GEO LEYVA
 CHECKED BY: RICHARD KUAN
 REVISED BY: DATE REVISIONS:

TYPICAL CROSS SECTIONS
 NO SCALE
X-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	43	0.0/9.3	4	29
Richard H. Kuan		3-15-10			
REGISTERED CIVIL ENGINEER		DATE			
5-03-10					
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 TRANSITION AT DRIVEWAY AND PUBLIC ROAD



TYPICAL TRANSITION AT DRIVEWAY AND PUBLIC ROAD

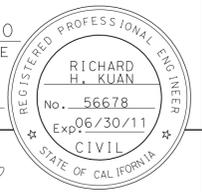
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR	DATE
Caltrans DESIGN	ALI ALOATAMI	CHECKED BY	GEO LEYVA	
			RICHARD KUAN	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	43	0.0/9.3	5	29

<i>Richard H. Kuan</i>	3-15-10
REGISTERED CIVIL ENGINEER	DATE

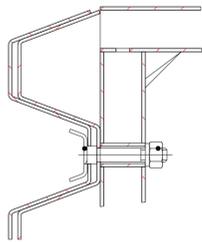
5-03-10
PLANS APPROVAL DATE

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.

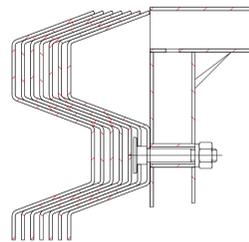


NOTES (FOR SHEETS C-3 AND C-4 ONLY):

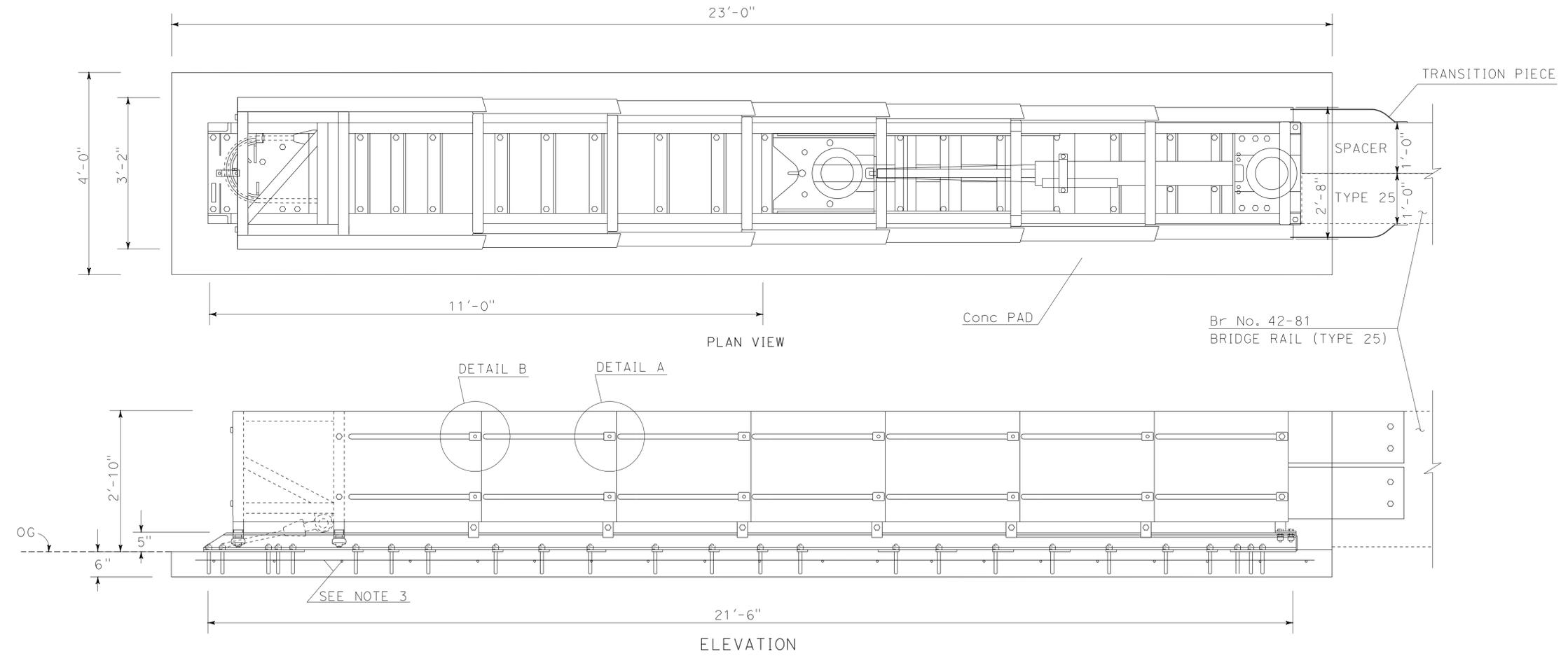
- FOR TRANSITION PANEL, REINFORCEMENT DETAILS AND ACCESSORIES TO CRASH CUSHION. SEE MANUFACTURER'S DETAILS.
- CROSS SLOPE AT TOP OF CONCRETE PAD NOT TO EXCEED 12:1, CROSS SLOPE SHOULD NOT VARY MORE THAN 48:1.



DETAIL B



DETAIL A



CRASH CUSHION (TYPE SCI - 100GM)

CONSTRUCTION DETAILS
CRASH CUSHION (TYPE SCI - 100GM)
 NO SCALE
C-3

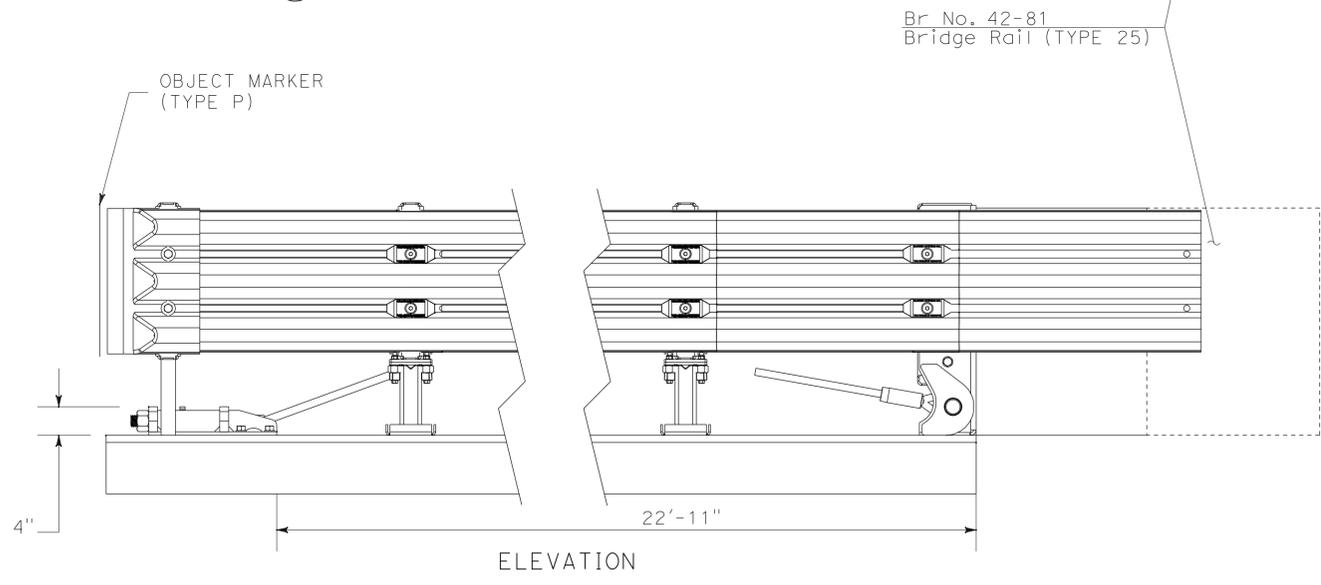
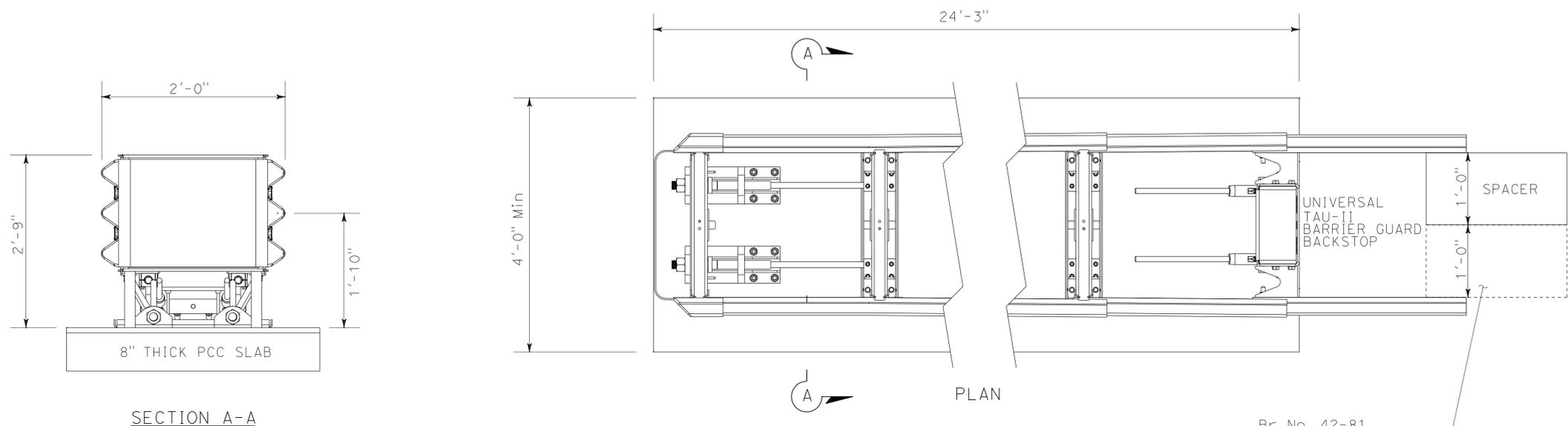
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	43	0.0/9.3	6	29

Richard H. Kuan 3-15-10
 REGISTERED CIVIL ENGINEER DATE
 5-03-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 RICHARD H. KUAN
 No. 56678
 Exp. 06/30/11
 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.



CRASH CUSHION (TYPE TAU - II MODEL 30T100PBC)

CONSTRUCTION DETAILS
CRASH CUSHION (TYPE TAU - II)
 NO SCALE
C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR
 ALI ALOATAMI

CALCULATED, DESIGNED BY
 CHECKED BY
 GEO. LEYVA
 RICHARD KUAN

REVISED BY
 DATE
 REVISED
 DATE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	43	0.0/9.3	7	29

Richard H. Kuan		3-15-10
REGISTERED CIVIL ENGINEER	DATE	
5-03-10		
PLANS APPROVAL DATE		

REGISTERED PROFESSIONAL ENGINEER	RICHARD H. KUAN
No. 56678	
Exp. 06/30/11	
CIVIL	STATE OF CALIFORNIA

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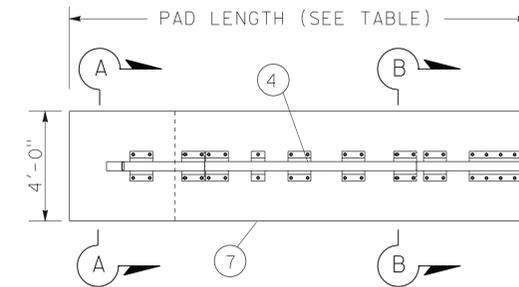
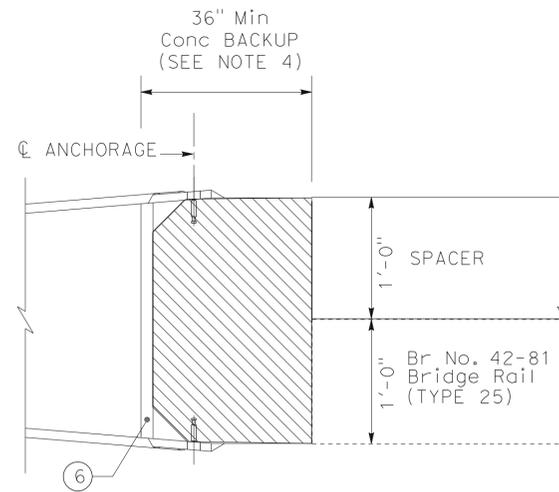
NOTES FOR SHEET C-5 ONLY:

- INSTALLATION TO COMPLY WITH MANUFACTURER INSTRUCTIONS. FOR ALL ACCESSORIES TO QUADGUARD SYSTEM AND ADDITIONAL INFORMATION SEE MANUFACTURER'S DETAILS.
- FOR CONCRETE PAD DETAILS, SEE MANUFACTURER'S DETAILS.
- PROVISION SHALL BE MADE FOR REAR FENDER PANELS TO SLIDE REARWARD UPON IMPACT 2'-6" Min.
- FOR DETAILS OF QUADGUARD SYSTEM COMPONENTS NOT SHOWN, INCLUDING CONCRETE BACKUP AND CONCRETE PAD DIMENSIONS AND BAR REINFORCING STEEL, SEE MANUFACTURER'S RECOMMENDATIONS.
- END CAP (TYPE A). FOR ADDITIONAL DETAILS SEE CONNECTION DETAIL EE ON STANDARD PLAN A77J3.

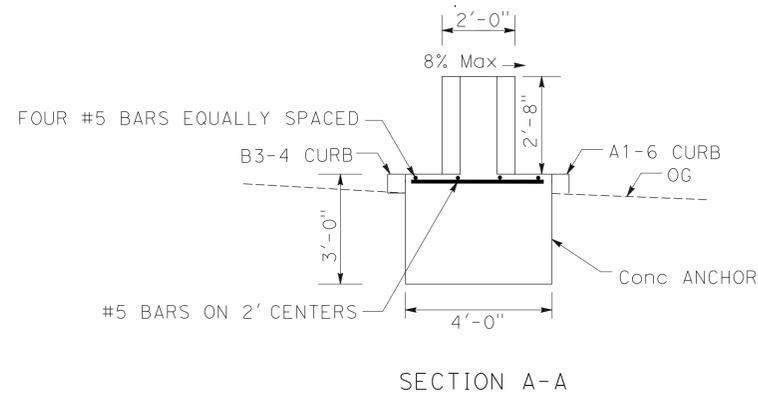
LEGEND:

- ① QUADGUARD CARTRIDGE
- ② DIAPHRAGM
- ③ FENDER PANEL
- ④ MONORAIL
- ⑤ NOSE ASSEMBLY
- ⑥ Conc BACKUP

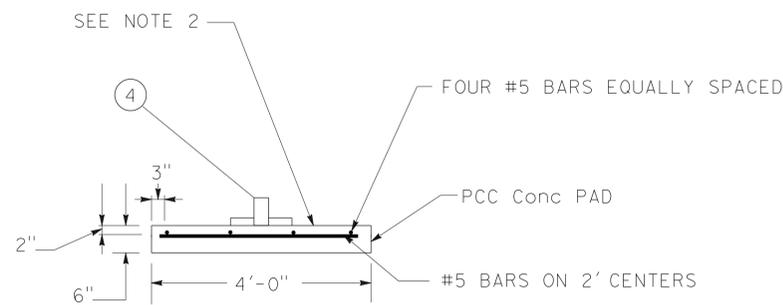
PROPOSED No. BAYS	MODEL QUADGUARD (NARROW)	SYSTEM LENGTH	EFFECTIVE LENGTH	CONCRETE PAD LENGTH
		LF	LF	LF
6	QS2406Y	23'-6"	20'-8"	20'-6"



CONCRETE BACKUP DETAIL

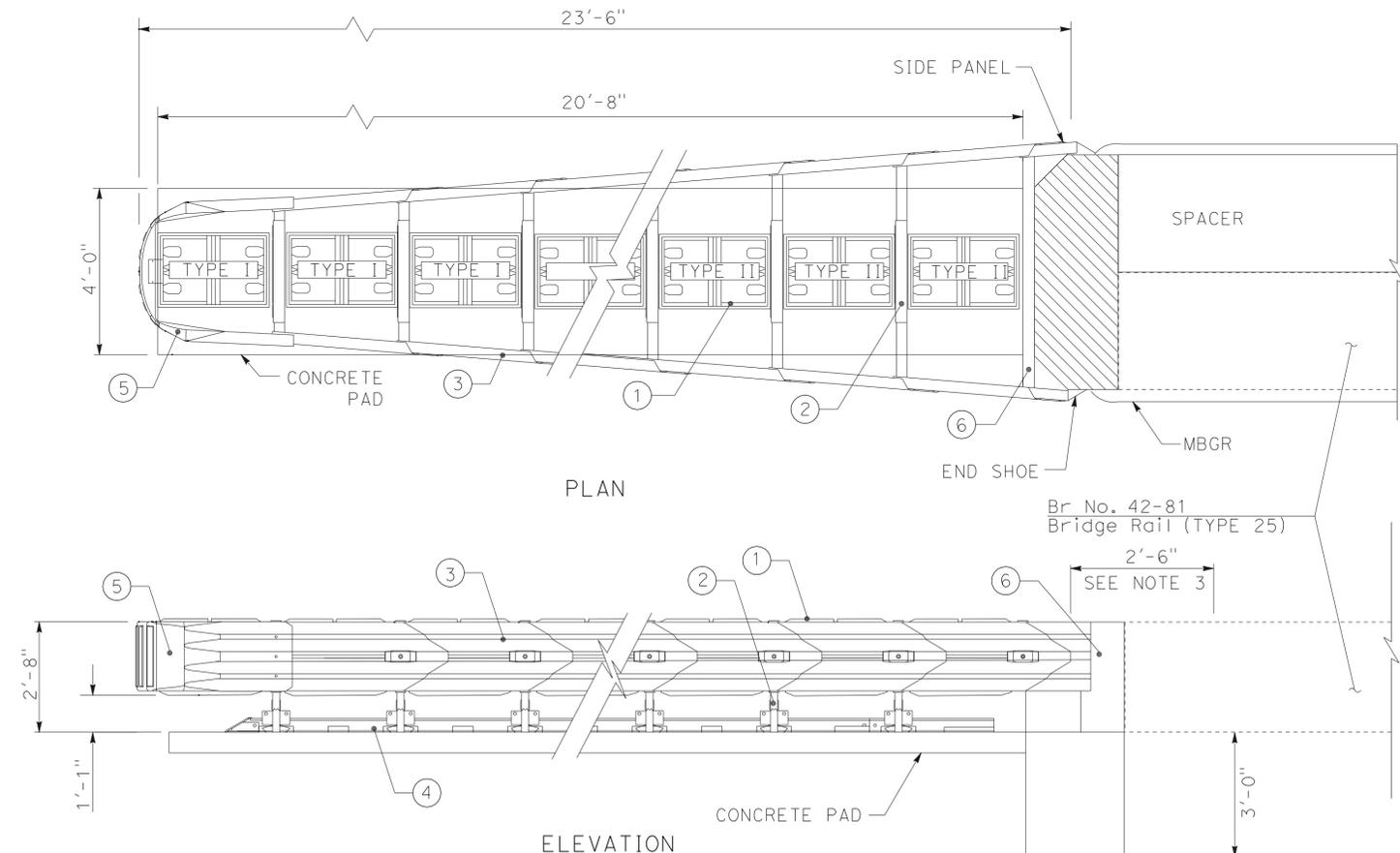


SECTION A-A



SECTION B-B

CONCRETE PAD DETAILS



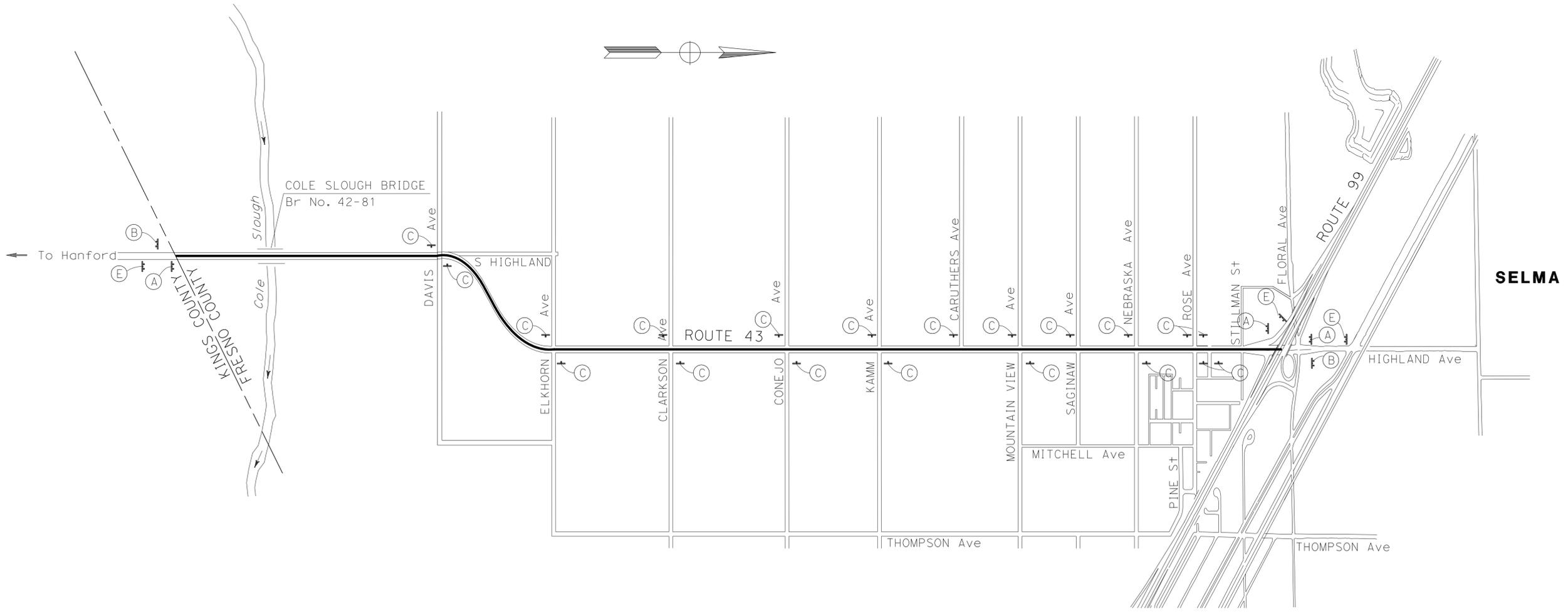
CRASH CUSHION (QUADGUARD)

**CONSTRUCTION DETAILS
CRASH CUSHION (QUADGUARD)
NO SCALE
C-5**

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE in x in	SIGN MESSAGE	No. OF POSTS	POST SIZE in x in	No. OF SIGNS
(A)	W20-1	45 x 45	ROAD WORK AHEAD	2	6 x 6	3
(B)	G20-2	60 x 24	END ROAD WORK	2	4 x 4	2
(C)	W20-1	36 x 36	ROAD WORK AHEAD	1	6 x 6	20
(E)	C40(CA)	102 x 42	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2	6 x 6	3

NOTE: LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE.
EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.



CONSTRUCTION AREA SIGNS NO SCALE CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGNS ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
 CALCULATED/DESIGNED BY: [blank]
 CHECKED BY: [blank]
 KHONDOKER IMTEAZ UDDIN
 HASSAN TAHA
 REVISED BY: [blank]
 DATE REVISED: [blank]

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	43	0.0/9.3	9	29

Hassan Cohe 06-23-10
REGISTERED CIVIL ENGINEER DATE

5-03-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HASSAN M. TAHA
No. 60130
Exp. 06/30/12
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.

TEMPORARY TRAFFIC STRIPE (PAINT)

ROUTE	LOCATION PM TO PM		DIRECTION	DETAIL No.	TEMPORARY TRAFFIC STRIPE (PAINT)				TEMPORARY PAVEMENT MARKING (PAINT)	
					8" SOLID	4" SOLID	8" BROKEN (12-3)	4" BROKEN (36-12)	DESCRIPTION	SQFT
					LF	LF	LF	LF		
ROUTE 43	0.00	2.23	NB	27B		11,774				
	0.00	0.63	NB	6				3326		
	0.63	0.81	NB	19		950		950		
	0.76	0.94	NB	19		950		950		
	0.94	2.13	NB	6				6283		
	2.13	2.23	NB	19		528		528		
	2.23	2.25	NB	27C			106			
	2.25	3.29	NB	27B		5491				
	2.25	2.31	NB	22		634				
	2.32	2.50	NB	22		1901				
	2.50	2.71	NB	19		1109		1108		
	2.71	2.84	NB	6				686		
	2.84	3.03	NB	19		1003		1003		
	3.03	3.32	NB	22		3062				
	3.29	3.34	NB	27C			264			
	3.34	3.43	NB	19		475		475		
	3.34	4.31	NB	27B		5122				
	3.43	4.26	NB	6				4382		
	4.26	4.31	NB	19		264		264		
	4.31	4.33	NB	27C			106			
	4.33	4.38	NB	19		264		264		
	4.38	5.26	NB	6				4646		
	4.33	5.31	NB	27B		5174				
	5.26	5.31	NB	19		264		264		
	5.31	5.32	NB	27C			53			
	5.32	6.31	NB	27B		5227				
	5.32	5.38	NB	19		317		317		
	5.38	6.25	NB	6				4594		
	6.25	6.31	NB	19		317		317		
	6.31	6.32	NB	27C			53			
6.32	7.29	NB	27B		5122					
6.32	6.38	NB	19		317		317			
6.38	6.75	NB	6				1954			
6.75	6.81	NB	19		317		317			
6.82	6.88	NB	19		317		317			
6.88	7.10	NB	6				1162			
7.10	7.19	NB	19		475		475			
7.19	7.31	NB	22		1267					
7.22	7.31	NB	38		475					
7.29	7.33	NB	27C			211				
7.32	7.43	NB	22			1162				
7.33	8.30	NB	27B			5122				
7.43	7.54	NB	19		581		581			
7.54	7.75	NB	6				1109			
7.75	7.81	NB	19			317	317			
SHEET SUBTOTAL					475	59,822	793	36,907		
TOTAL						97,997				

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
 CALCULATED/DESIGNED BY: CHECKED BY:
 KHONDOKER I UDDIN HASSAN M TAHA
 REVISED BY: DATE REVISED:

TRAFFIC HANDLING QUANTITIES THQ-1

LAST REVISION | DATE PLOTTED => \$DATE
 06-23-10 | TIME PLOTTED => \$TIME

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	43	0.0/9.3	10	29

Hassan M. Taha 06-23-10
REGISTERED CIVIL ENGINEER DATE

5-03-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HASSAN M. TAHA
No. 60130
Exp. 06/30/12
CIVIL
STATE OF CALIFORNIA

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TEMPORARY TRAFFIC STRIPE (PAINT)

ROUTE	LOCATION PM TO PM		DIRECTION	DETAIL No.	TEMPORARY TRAFFIC STRIPE (PAINT)				TEMPORARY PAVEMENT MARKING (PAINT)	
					8" SOLID	4" SOLID	8" BROKEN (12-3)	4" BROKEN (36-12)		
					LF	LF	LF	LF	DESCRIPTION	SQFT
ROUTE 43	7.82	7.88	NB	19		317		317		
	7.88	7.93	NB	6				264		
	7.93	8.13	NB	22		2112				
	8.07	8.30	NB	12				1214		
	8.13	8.24	NB	19		581		581		
	8.24	8.30	NB	38	317					
	8.32	8.36	NB	22		422				
	8.32	8.80	NB	12				2534		
	8.32	8.79	NB	27B		2482				
	8.36	8.76	NB	19		2112		2112		
	8.76	8.80	NB	38	211					
	8.79	8.82	NB	27C			158			
	8.81	8.83	NB	22		211				
	8.82	8.92	NB	27B		528				
	8.83	8.92	NB	19		475		475		
	8.92	8.94	NB	27C			106			
	8.94	9.05	NB	12				581		
	8.99	9.05	NB	38	317					
	8.99	9.05	NB	38	317					
	9.08	9.22	NB	12				739		
	9.24	9.31	NB	12				370		
	9.26	9.30	SB	27B		211				
	9.26	9.30	SB	12				211		
	9.24	9.30	SB	25		317				
	9.26	9.27	SB	38	53					
	9.10	9.24	SB	27B		739				
	9.10	9.24	SB	12				739		
	9.10	9.17	SB	38	370					
	9.10	9.17	SB	38	370					
	9.10	9.17	SB	38	370					
	9.10	9.17	SB	38	370					
	8.34	9.07	SB	12				3854		
	8.84	9.02	SB	27B		950				
	8.96	8.99	SB	38	158					
	8.80	8.84	SB	27C			211		4 TYPE III Arrows	168
	8.83	8.84	SB	38	53				14 TYPE III Arrows	588
	8.34	8.80	SB	27B		2429			6 TYPE III Arrows	252
	8.34	8.37	SB	38	158					
	7.83	8.32	SB	27B		2587				
	8.20	8.32	SB	12				634		
7.82	7.83	SB	27C			53				
7.35	7.82	SB	27B		2482					
7.34	7.42	SB	38	422						
7.31	7.35	SB	27C			211				
6.83	7.31	SB	27B		2534					
SHEET SUBTOTAL					3486	21,489	739	14,625		1008
TOTAL							40,339			1008

(N) NOT A SEPERATE ITEM, FOR INFORMATION ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
 CALCULATED/DESIGNED BY: CHECKED BY:
 REVISIONS: KHONDOKER I UDDIN, HASSAN M TAHA

TRAFFIC HANDLING QUANTITIES THQ-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	43	0.0/9.3	12	29

Hassan M. Taha 4-05-10
REGISTERED CIVIL ENGINEER DATE

5-03-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HASSAN M. TAHA
No. 60130
Exp. 06/30/12
CIVIL
STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

ROUTE	LOCATION PM TO PM		DIRECTION	DETAIL No.	PAVEMENT MARKERS (RETROREFLECTIVE)			REMOVE PAVEMENT MARKERS (N)	THERMOPLASTIC TRAFFIC STRIPE				THERMOPLASTIC PAVEMENT MARKING		
	FROM	TO			TYPE D Yellow (TWO-WAY)	TYPE G Clear (ONE-WAY)	TYPE H Yellow (ONE-WAY)		8" SOLID	4" SOLID	8" BROKEN (12-3)	4" BROKEN (36-12)	DESCRIPTION	SQFT	
	EA	EA			EA	EA	EA		LF	LF	LF	LF			
ROUTE 43	0.00	2.23	NB	27B				70				11,774			
	0.00	0.63	NB	6	70			63						3326	
	0.63	0.81	NB	19	22		41	63			950			950	
	0.76	0.94	NB	19	22		41	63			950			950	
	0.94	2.13	NB	6	132			132						6283	
	2.13	2.23	NB	19	14		23	37			528			528	
	2.23	2.25	NB	27C								106			
	2.25	3.29	NB	27B							5491				
	2.25	2.31	NB	22	30			30			634				
	2.32	2.50	NB	22	82			82			1901				
	2.50	2.71	NB	19	26		47	73			1109			1108	
	2.71	2.84	NB	6	15			15						686	
	2.84	3.03	NB	19	24		43	67			1003			1003	
	3.03	3.32	NB	22	130			130			3062				
	3.29	3.34	NB	27C								264			
	3.34	3.43	NB	19	12		21	33			475			475	
	3.34	4.31	NB	27B							5122				
	3.43	4.26	NB	6	92			92						4382	
	4.26	4.31	NB	19	8		12	20			264			264	
	4.31	4.33	NB	27C								106			
	4.33	4.38	NB	19	8		12	20			264			264	
	4.38	5.26	NB	6	98			98						4646	
	4.33	5.31	NB	27B							5174				
	5.26	5.31	NB	19	8		12	20			264			264	
	5.31	5.32	NB	27C								53			
	5.32	6.31	NB	27B							5227				
	5.32	5.38	NB	19	10		14	24			317			317	
	5.38	6.25	NB	6	97			97						4594	
	6.25	6.31	NB	19	10		14	24			317			317	
	6.31	6.32	NB	27C								53			
	6.32	7.29	NB	27B							5122				
	6.32	6.38	NB	19	10		14	24			317			317	
	6.38	6.75	NB	6	42			42						1954	
	6.75	6.81	NB	19	10		14	24			317			317	
	6.82	6.88	NB	19	10		14	24			317			317	
	6.88	7.10	NB	6	25			25						1162	
	7.10	7.19	NB	19	12		21	33			475			475	
	7.19	7.31	NB	22	56			56			1267				
	7.22	7.31	NB	38			21	21		475					
	7.29	7.33	NB	27C								211			
	7.32	7.43	NB	22	52			52			1162				
	7.33	8.30	NB	27B							5122				
	7.43	7.54	NB	19	16		25	41			581			581	
	7.54	7.75	NB	6	24			24						1109	
	7.75	7.81	NB	19	10		14	24			317			317	
SHEET SUBTOTAL						1177	21	382	1580	475	59,823	793	36,906		
SHEET TOTAL							1580		1580	475	59,823	793	36,906		

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MOHAMMED OATAMI

CALCULATED/DESIGNED BY: KHONDOKER I UDDIN

CHECKED BY: HASSAN M TAHA

REVISOR BY: DATE

REVISED BY: DATE

PAVEMENT DELINEATION QUANTITIES PDQ-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	43	0.0/9.3	13	29

Hassan M. Tahar 4-05-10
REGISTERED CIVIL ENGINEER DATE

5-03-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HASSAN M. TAHA
No. 60130
Exp. 06/30/12
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 DELINEATION QUANTITIES

ROUTE	LOCATION PM TO PM		DIRECTION	DETAIL No.	PAVEMENT MARKERS (RETROREFLECTIVE)			REMOVE PAVEMENT MARKERS (N)	THERMOPLASTIC TRAFFIC STRIPE				THERMOPLASTIC PAVEMENT MARKING		
	FROM	TO			TYPE D Yellow (TWO-WAY)	TYPE G Clear (ONE-WAY)	TYPE H Yellow (ONE-WAY)		8" SOLID	4" SOLID	8" BROKEN (12-3)	4" BROKEN (36-12)	DESCRIPTION	SQFT	
	EA	EA			EA	EA	EA		LF	LF	LF	LF			
ROUTE 43	7.82	7.88	NB	19	10		14	24				317			
	7.88	7.93	NB	6	7										264
	7.93	8.13	NB	22	90			90				2112			
	8.07	8.30	NB	12		26		26							1214
	8.13	8.24	NB	19	16		25	41				581			
	8.24	8.30	NB	38		14		14	317						
	8.32	8.36	NB	22	20			20				422			
	8.32	8.80	NB	12		54		54							2534
	8.32	8.79	NB	27B								2482			
	8.36	8.76	NB	19	46		89	135				2112			
	8.76	8.80	NB	38		10		10	211						
	8.79	8.82	NB	27C											
	8.81	8.83	NB	22	12			12				211			
	8.82	8.92	NB	27B								528			
	8.83	8.92	NB	19	12		21	33				475			
	8.92	8.94	NB	27C											
	8.94	9.05	NB	12		13		13							581
	8.99	9.05	NB	38		14		14	317						
	8.99	9.05	NB	38		14		14	317						
	9.08	9.22	NB	12		16		16							739
	9.24	9.31	NB	12		9		9							370
	9.26	9.30	SB	27B								211			
	9.26	9.30	SB	12		5		5							211
	9.24	9.30	SB	25			8	8				317			
	9.26	9.27	SB	38		3		3	53						
	9.10	9.24	SB	27B								739			
	9.10	9.24	SB	12		16		16							739
	9.10	9.17	SB	38		16		16	370						
	9.10	9.17	SB	38		16		16	370						
	9.10	9.17	SB	38		16		16	370						
	9.10	9.17	SB	38		16		16	370						
	8.34	9.07	SB	12		81		81							3854
	8.84	9.02	SB	27B								950			
	8.96	8.99	SB	38		8		8	158						
	8.80	8.84	SB	27C											4 TYPE III Arrows 168
	8.83	8.84	SB	38		3		3	53						14 TYPE III Arrows 588
	8.34	8.80	SB	27B											6 TYPE III Arrows 252
	8.34	8.37	SB	38		8		8	158			2429			
	7.83	8.32	SB	27B								2587			
	8.20	8.32	SB	12		14		14							634
	7.82	7.83	SB	27C											53
	7.35	7.82	SB	27B								2482			
	7.34	7.42	SB	38		19		19	422						
	7.31	7.35	SB	27C											211
	6.83	7.31	SB	27B								2534			
SHEET SUBTOTAL					213	391	157	754	3486	21,489	739	14,625			1008
SHEET TOTAL						761		754	3486	21,489	739	14,625			1008

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

PAVEMENT DELINEATION QUANTITIES PDQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: MOHAMMED OATAMI
 CALCULATED/DESIGNED BY: CHECKED BY:
 KHONDOKER I UDDIN HASSAN M TAHA
 REVISED BY: DATE REVISED:

LAST REVISION: DATE PLOTTED => \$DATE
 04-05-10 TIME PLOTTED => \$TIME

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	43	0.0/9.3	14	29

Hassan Cohe 4-05-10
REGISTERED CIVIL ENGINEER DATE

5-03-10
PLANS APPROVAL DATE

HASSAN M. TAHA
No. 60130
Exp. 06/30/12
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 DELINEATION QUANTITIES

ROUTE	LOCATION PM TO PM		DIRECTION	DETAIL No.	PAVEMENT MARKERS (RETROREFLECTIVE)			REMOVE PAVEMENT MARKERS (N)	THERMOPLASTIC TRAFFIC STRIPE				THERMOPLASTIC PAVEMENT MARKING			
	FROM	TO			TYPE D Yellow (TWO-WAY)	TYPE G Clear (ONE-WAY)	TYPE H Yellow (ONE-WAY)		8" SOLID	4" SOLID	8" BROKEN (12-3)	4" BROKEN (36-12)	DESCRIPTION	SQFT		
	EA	EA			EA	EA	EA		LF	LF	LF	LF				
ROUTE 43	6.82	6.83	SB	27C							53		DAVIS Ave	1-LIMIT LINE	15	
	6.34	6.82	SB	27B					2534					1-LIMIT LINE	15	
	6.32	6.34	SB	27C							106		ELKHORN Ave	1-LIMIT LINE	24	
	5.33	6.32	SB	27B						5227				1-LIMIT LINE	24	
	5.31	5.33	SB	27C							106		CLARKSON Ave	1-LIMIT LINE	12	
	4.34	5.31	SB	27B						5122				1-LIMIT LINE	12	
	4.32	4.34	SB	27C							106		CONEJO Ave	1-LIMIT LINE	12	
	3.37	4.32	SB	27B						5016				1-LIMIT LINE	12	
	3.31	3.37	SB	27C							317		KAMM Ave	1-LIMIT LINE	12	
	2.33	3.31	SB	27B						5174				1-LIMIT LINE	12	
	2.31	2.33	SB	27C							106		CARUTHERS Ave	1-LIMIT LINE	12	
	0.00	2.31	SB	27B						12197			MOUNTAIN VIEW Ave	3-TYPE III ARROWS	126	
	8.84	8.94	SB	32		103		103		1901		1901		1-LIMIT LINE	24	
	8.30	8.79	SB	32		273		273		5174		5174		3-TYPE III ARROWS	126	
	8.08	8.26	SB	32		58		58		1056		1056		1-LIMIT LINE	12	
														SAGINAW Ave(WEST)	1-LIMIT LINE	12
														NEBRASKA Ave	2-"SIGNAL"	64
															2-"AHEAD"	62
															2-TYPE III ARROWS	84
															1-CROSSWALK (50X2)	100
															1-CROSSWALK (50X2)	100
															1-CROSSWALK NB	100
														NEBRASKA Ave	2-"SIGNAL"	64
															2-"AHEAD"	62
															2-TYPE III ARROWS	84
															1-CROSSWALK (48X2)	96
															1-CROSSWALK (36X2)	72
															3-TYPE VI ARROWS	126
														1-CROSSWALK	100	
													ROSE Ave	1 TYPE III ARROW	42	
														1-LIMIT LINE	24	
														1 TYPE III ARROW	42	
														1-LIMIT LINE	24	
													ARRANTS Ave	1-LIMIT LINE	12	
														2-TYPE III ARROW	84	
														1-LIMIT LINE	24	
													PEA SOUP ANDERSON Blvd	4-TYPE III ARROWS	168	
														1-CROSSWALK (50X2)	100	
														1-CROSSWALK (36X2)	72	
														1-CROSSWALK (50X2)	100	
														1-CROSSWALK (72X2)	144	
														1-CROSSWALK (30X2)	60	
														8 TYPE III ARROWS	336	
														3-TYPE VI ARROWS	126	
														2-"SIGNAL"	64	
														2" AHEAD"	62	
														2-TYPE III ARROWS	84	
														1-LIMIT LINE	36	
														1-LIMIT LINE	50	
														1-CROSSWALK	60	
						434		434		43,401	794	8131			3290	
								434		43,401	794	8131				
									475	59,823	793	36,906			1008	
									3486	21,489	739	14,625				
										2775					4298	

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR MOHAMMED OATAMI
 CALCULATED/DESIGNED BY CHECKED BY
 KHONDOKER I UDDIN HASSAN M TAHA
 REVISED BY DATE REVISED
 BORDER LAST REVISED 4/11/2008

PAVEMENT DELINEATION QUANTITIES PDQ-3



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	43	0.0/9.3	15	29

Richard H. Kuan 3-15-10
REGISTERED CIVIL ENGINEER DATE

5-03-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RICHARD H. KUAN
No. 56678
Exp. 06/30/11
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.

METAL BEAM GUARD RAILING

LOCATION	POSTMILE	DIRECTION	LAYOUT TYPE [N]	STAND PLAN [N]	REMOVE METAL BEAM GUARD RAILING	ALTERNATIVE CRASH CUSHION SYSTEM
COLE SLOUGH BRIDGE					LF	EA
BRIDGE APPROACH	0.78	NB	12B	A77F1	63	1
	0.78	SB	12B	A77F1	63	1
BRIDGE DEPARTURE	0.78	NB	12BB	A77F4	69	1
	0.78	SB	12BB	A77F4	69	1
TOTAL					264	4

[N] NOT A SEPARATE ITEM. FOR INFORMATION ONLY

ROADWAY QUANTITIES

LOCATION	COLD IN-PLACE RECYCLING	EMULSIFIED RECYCLING AGENT	ASPHALTIC EMULSION (FOG SEAL COAT)	SAND COVER	HMA (TYPE A)	IMPORTED MATERIAL (SHOULDER BACKING)	COLD PLANE ASHALT CONCRETE PAVEMENT
PM TO PM	SQYD	TON	TON	TON	TON	TON	SQYD
0.00 TO 4.33	93,300	550	23	78	15,400	1250	900
4.33 TO 7.80	86,700	400	19	58	14,400	1000	1,400
7.80 TO 8.34	22,000	120	3	19	4,500	250	700
8.34 TO 9.30	0	0	0	0	9,300	0	50,000
TOTAL	202,000	1070	45	155	43,600	2500	53,000

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR ALI ALOATAMI
 CALCULATED/DESIGNED BY CHECKED BY RICHARD KUAN
 GEO LEYVA
 REVISED BY DATE REVISIED

SUMMARY OF QUANTITIES Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
 CALCULATED/DESIGNED BY: PAUL MATOS
 CHECKED BY: RAJPREET SINGH
 REVISED BY:

NOTES:

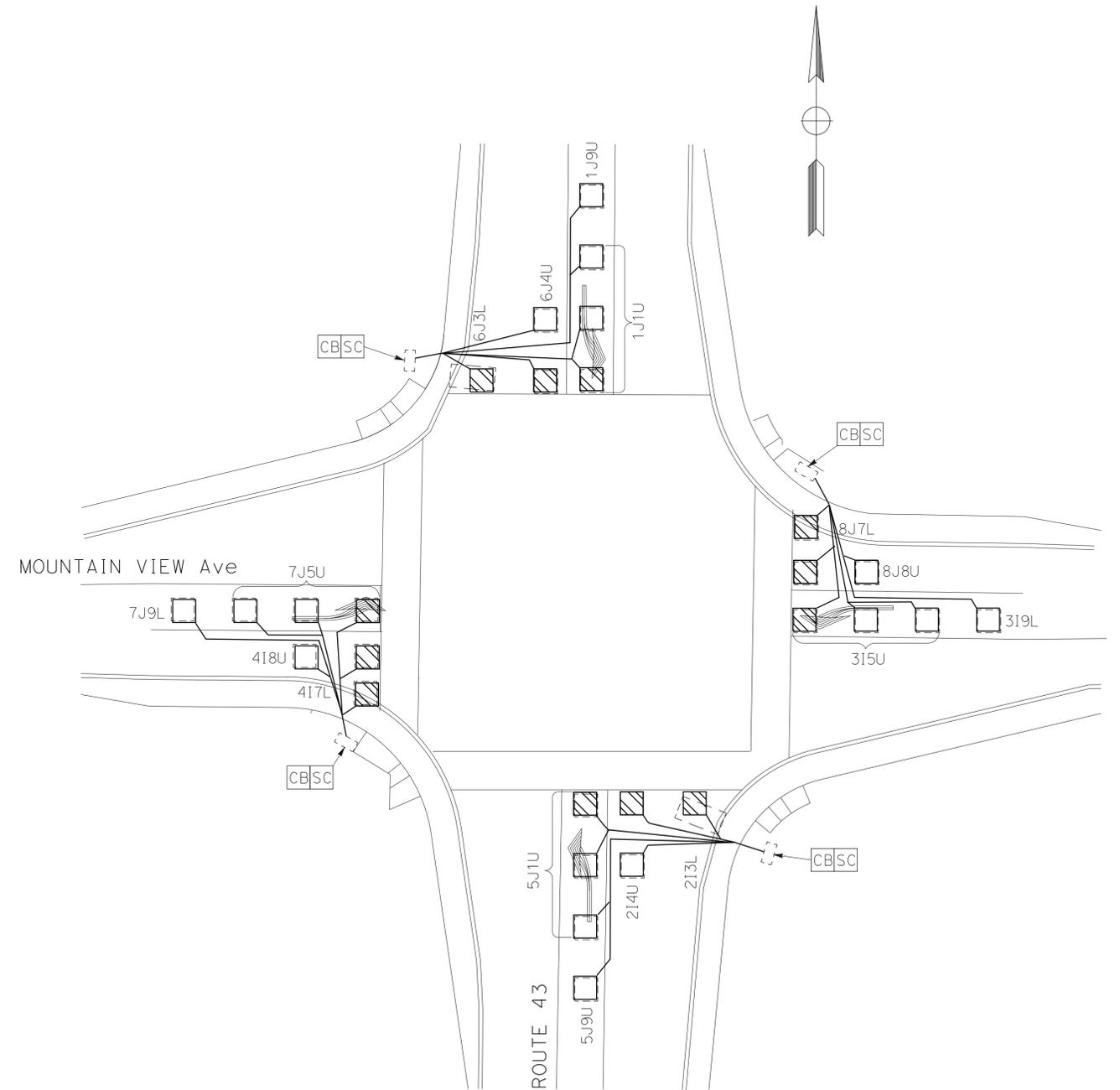
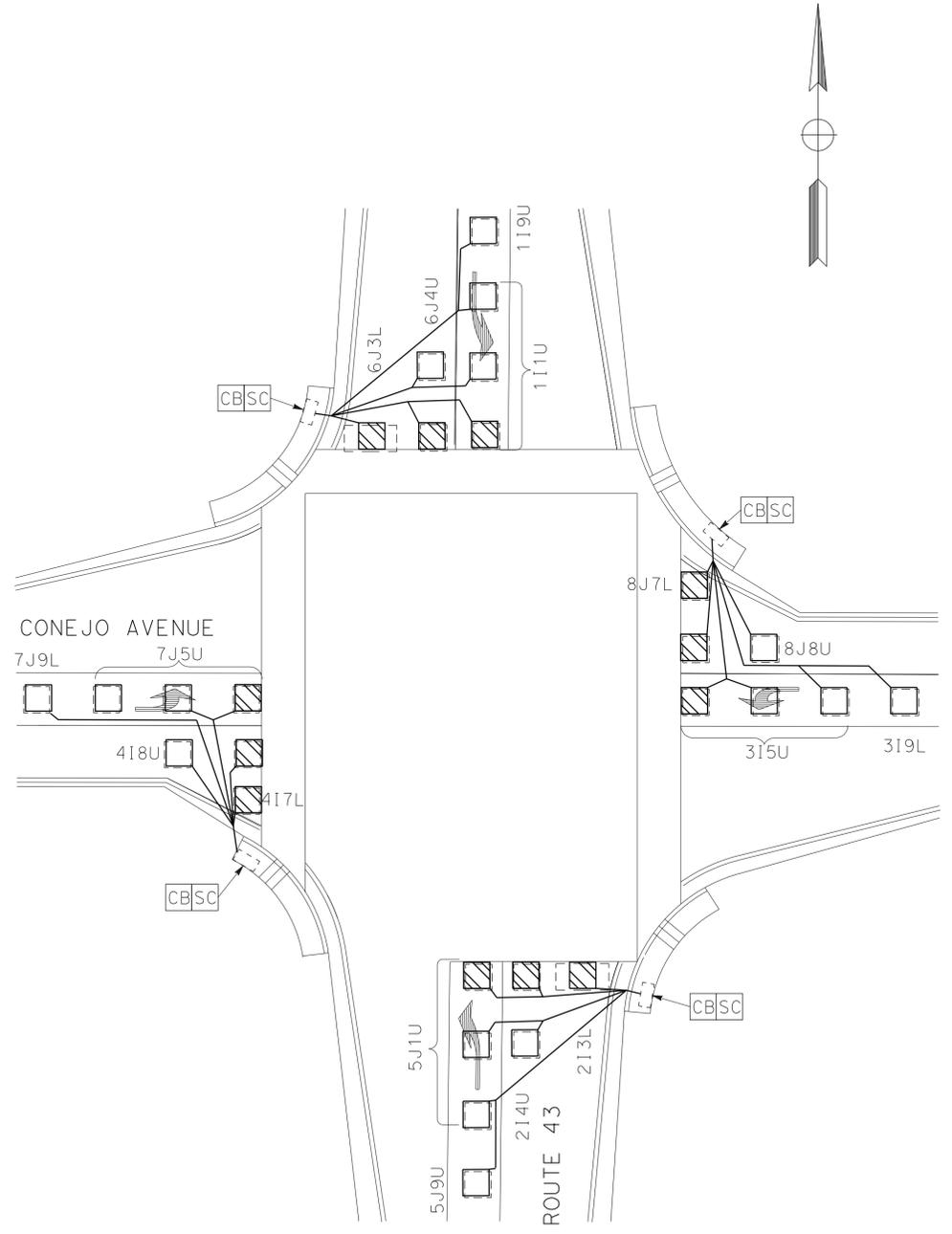
1. [AB] Exist DETECTOR LOOPS. INSTALL NEW DETECTOR LOOPS AS SHOWN.
2. RIGHT OF WAY LIMITS ARE INDETERMINATE, AND ARE NOT SHOWN. THE CONTRACTOR MUST CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE FOR CONDITIONS OF USE PRIOR TO COMMENCING WORK.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	43	0.0/9.3	16	29

Paul Matos 4-07-10
 REGISTERED ELECTRICAL ENGINEER
 5-03-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAUL MATOS
 No. 18757
 Exp. 6/30/11
 ELECTRICAL
 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.



THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

DETECTOR LOOP E-1
 SCALE: 1"=20'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR
 ALI BAKHDOUD

CALCULATED/DESIGNED BY
 CHECKED BY

PAUL MATOS
 RAJPREET SINGH

REVISED BY

NOTES:

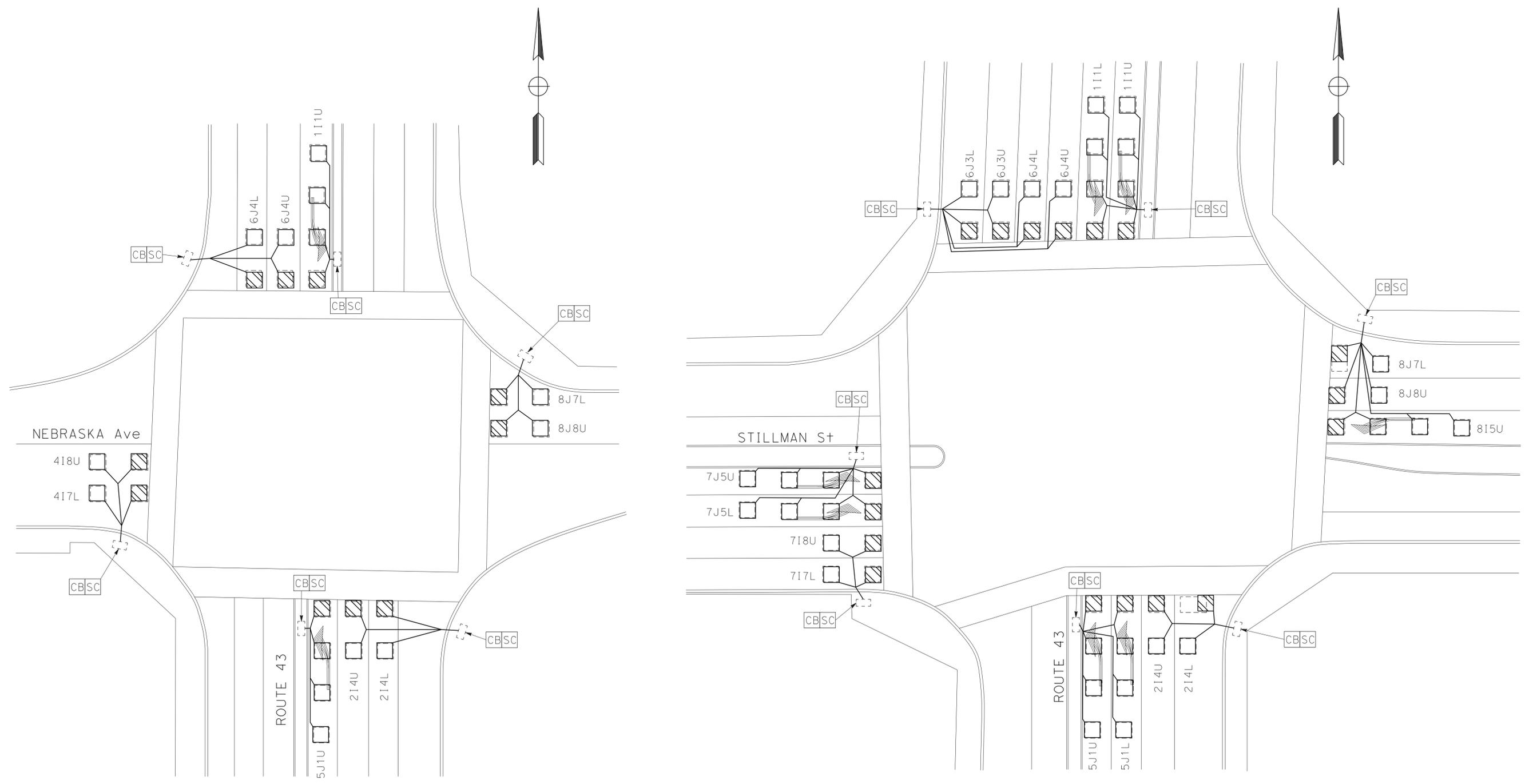
1. [AB] Exist DETECTOR LOOPS. INSTALL NEW DETECTOR LOOPS AS SHOWN.
2. RIGHT OF WAY LIMITS ARE INDETERMINATE, AND ARE NOT SHOWN. THE CONTRACTOR MUST CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE FOR CONDITIONS OF USE PRIOR TO COMMENCING WORK.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	43	0.0/9.3	17	29

Paul Matos 04-07-10
 REGISTERED ELECTRICAL ENGINEER
 5-03-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAUL MATOS
 No. 18757
 Exp. 6/30/11
 ELECTRICAL
 STATE OF CALIFORNIA

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THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

DETECTOR LOOP E-2
 SCALE: 1"=20'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR
 ALI BAKHDOUD

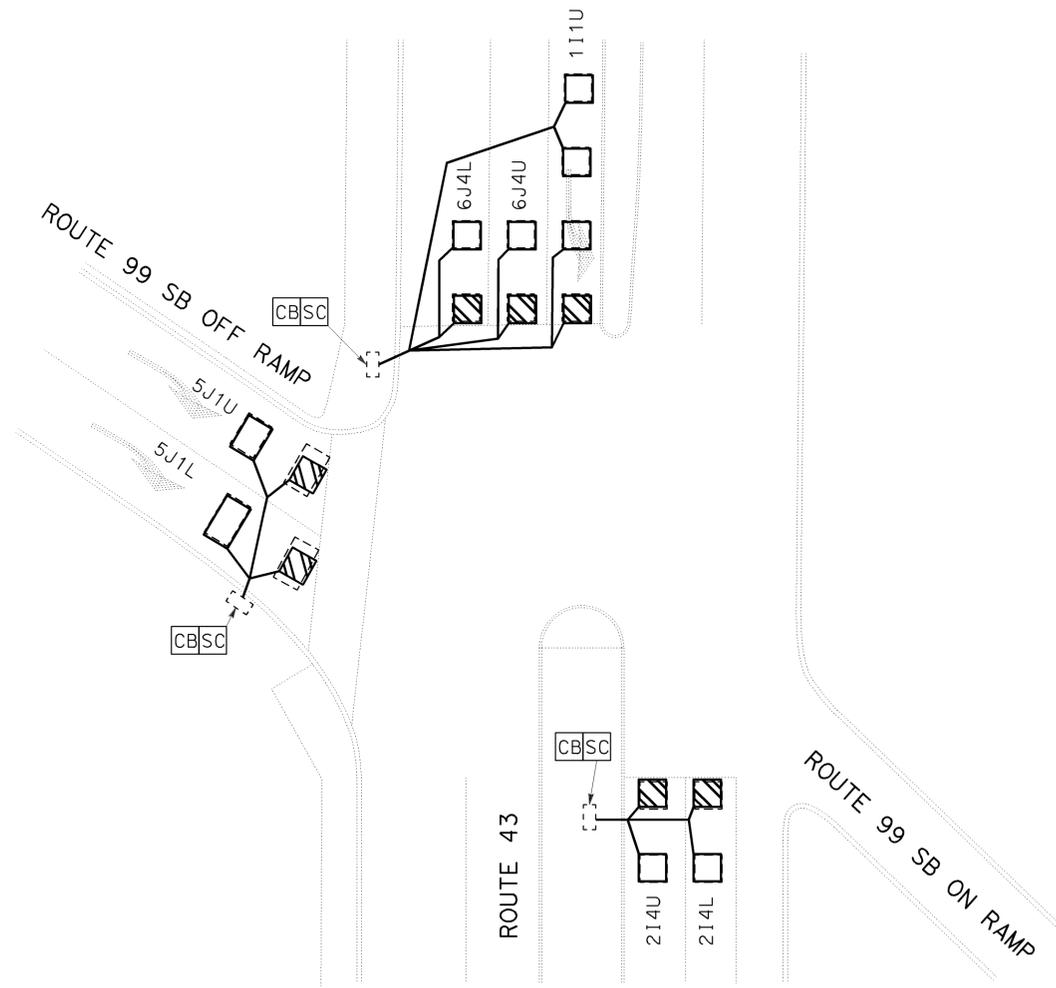
CALCULATED/DESIGNED BY
 CHECKED BY

PAUL MATOS
 RAJPREET SINGH

REVISED BY

NOTES:

1. **AB** Exist DETECTOR LOOPS. INSTALL NEW DETECTOR LOOPS AS SHOWN.
2. RIGHT OF WAY LIMITS ARE INDETERMINATE, AND ARE NOT SHOWN. THE CONTRACTOR MUST CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE FOR CONDITIONS OF USE PRIOR TO COMMENCING WORK.



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	43	0.0/9.3	18	29

Paul Matos 04-07-10
 REGISTERED ELECTRICAL ENGINEER
 5-03-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAUL MATOS
 No. 18757
 Exp. 6/30/11
 ELECTRICAL
 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.

**DETECTOR LOOP
 E-3**

SCALE: 1"=20'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => s118789
 DGN FILE => 645990ua003.dgn

CU 06391

EA 459901

BORDER LAST REVISED 4/11/2008

LAST REVISION | DATE PLOTTED => 24-JUN-2010
 05-06-10 TIME PLOTTED => 10:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	43	0.0/9.3	19	29

Paul Matos 4-07-10
 REGISTERED ELECTRICAL ENGINEER
 No. 18757
 Exp. 6/30/11
 ELECTRICAL
 STATE OF CALIFORNIA

5-03-10
 PLANS APPROVAL DATE

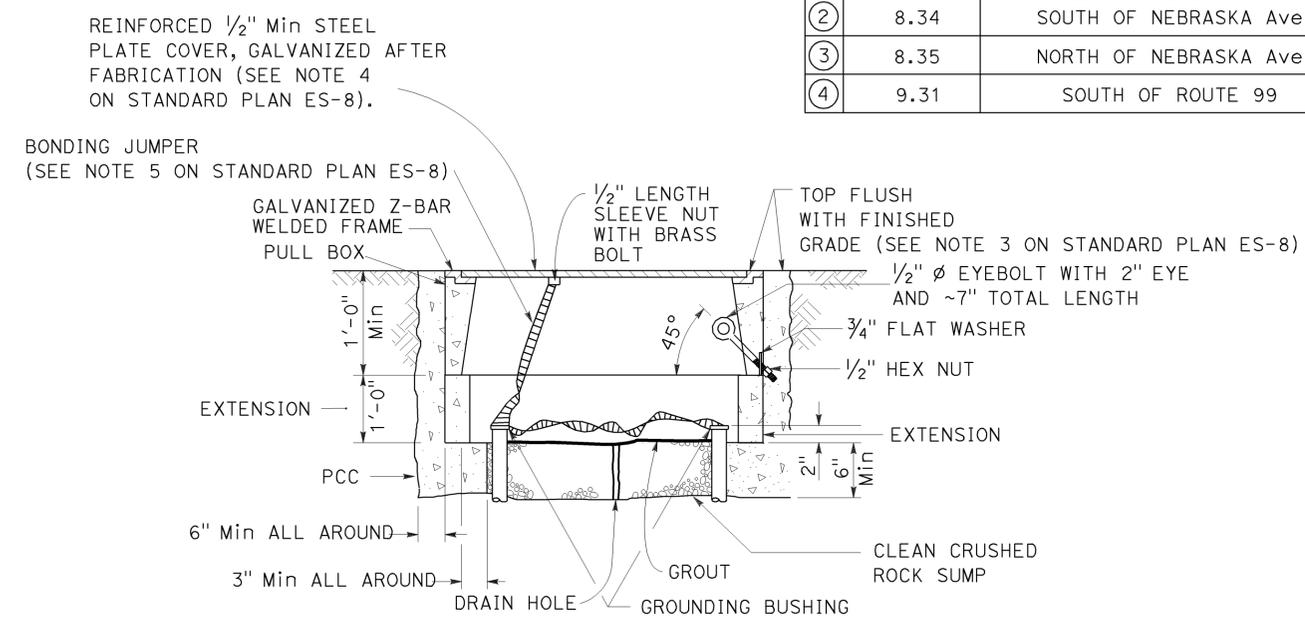
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



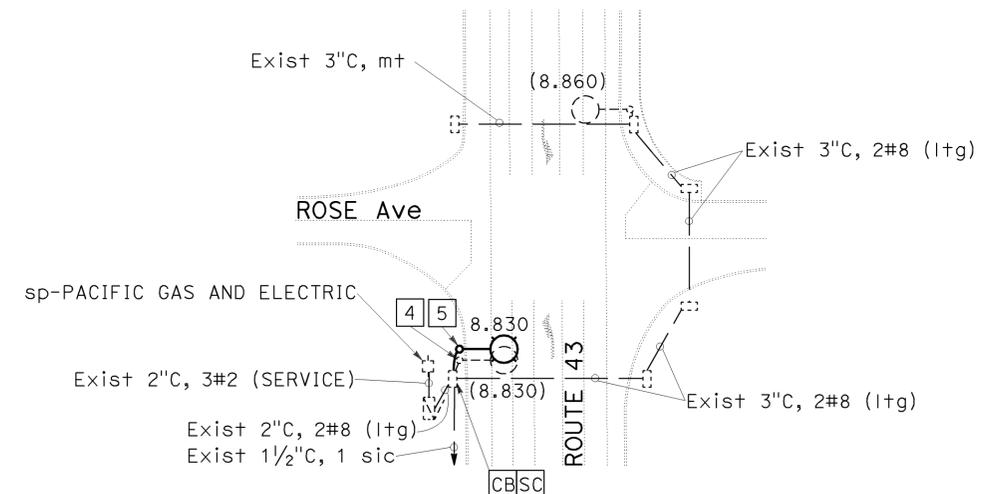
NOTES:

- 1 REFER TO DETAIL B FOR TRAFFIC MONITORING STATION INSTALLATION DETAIL.
 - 2 REFER TO DETAIL C FOR TRAFFIC MONITORING STATION INSTALLATION DETAIL.
 - 3 REFER TO DETAIL A FOR PULL BOX INSTALLATION DETAIL.
 - 4 **RS** EXISTING TYPE 15 ELECTROLIER.
 - 5 TYPE 15 ELECTROLIER WITH SLIP BASE AND TYPE IV PEC.
6. TRAFFIC MONITORING STATIONS SHALL BE INSTALLED A MINIMUM OF 50 FEET FROM ALL DRIVEWAYS AND INTERSECTIONS. EXACT LOCATION WILL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
 7. RIGHT OF WAY LIMITS ARE INDETERMINATE, AND ARE NOT SHOWN. THE CONTRACTOR MUST CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE FOR CONDITIONS OF USE PRIOR TO COMMENCING WORK.

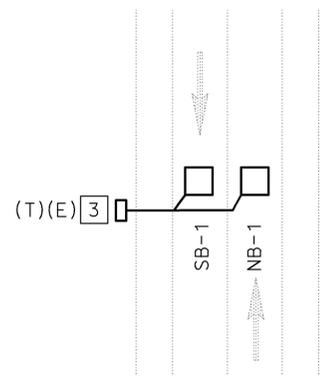
TRAFFIC MONITORING STATIONS - LOCATIONS OF CONSTRUCTION				
No.	POST MILE	LOCATION DESCRIPTION	DIRECTION	NOTES
①	0.00	NORTH OF Fre/Kin COUNTY LINE	NORTHBOUND/SOUTHBOUND	1
②	8.34	SOUTH OF NEBRASKA Ave	NORTHBOUND/SOUTHBOUND	1
③	8.35	NORTH OF NEBRASKA Ave	NORTHBOUND/SOUTHBOUND	2
④	9.31	SOUTH OF ROUTE 99	NORTHBOUND/SOUTHBOUND	2



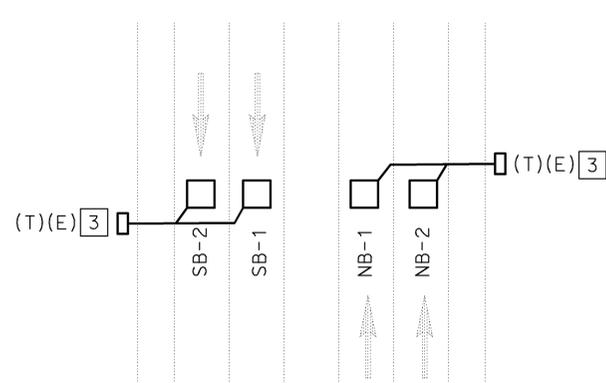
MODIFIED No. 5(T)(E) PULL BOX
 DETAIL A
 NO SCALE



MODIFY LIGHTING
 SCALE: 1"=50'



TRAFFIC MONITORING STATION (2 LANES)
 DETAIL B
 SCALE: 1"=20'



TRAFFIC MONITORING STATION (4 LANES)
 DETAIL C
 SCALE: 1"=20'

**TRAFFIC MONITORING STATION
 MODIFY LIGHTING**

E - 4

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

SCALE AS SHOWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Electrical DESIGN
 PAUL MATOS
 RAJPREET SINGH
 ALI BAKHDOUD

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	43	0.0/9.3	20	29

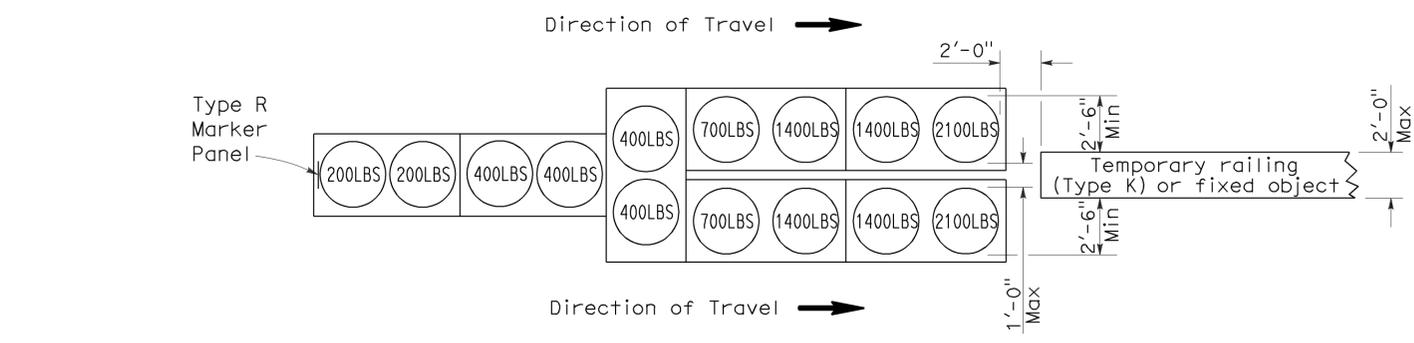
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

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.

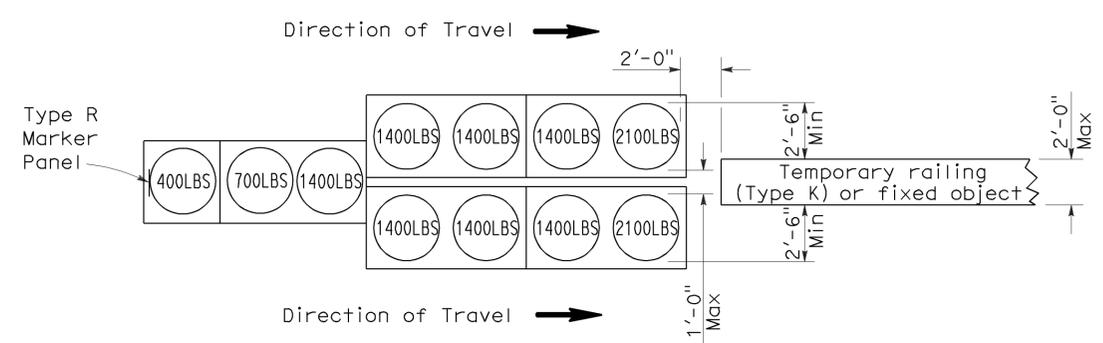
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 5-03-10



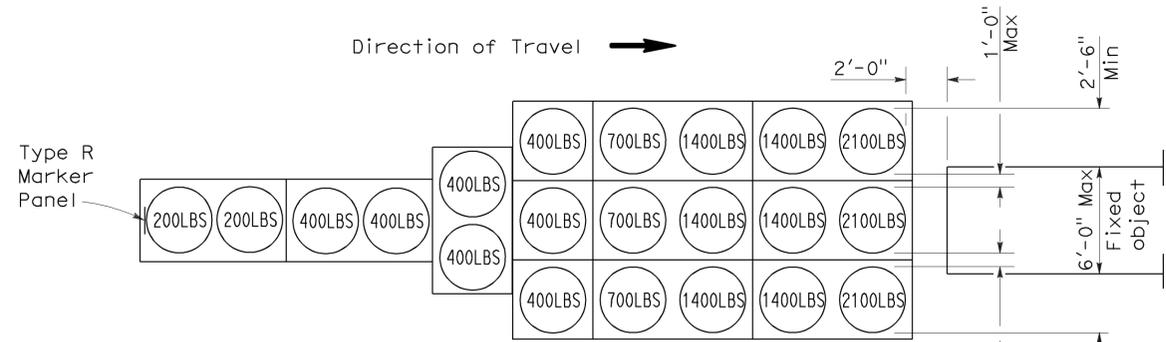
ARRAY 'TU14'

Approach speed 45 mph or more



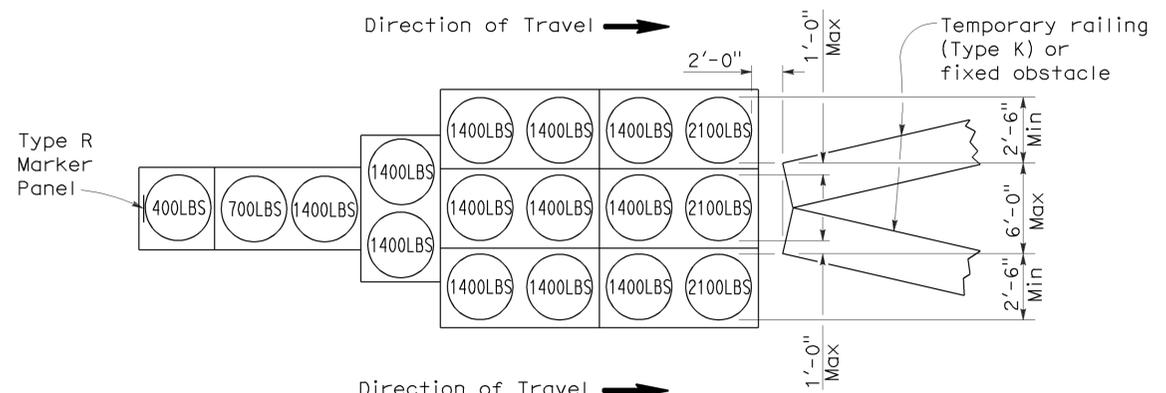
ARRAY 'TU11'

Approach speed less than 45 mph



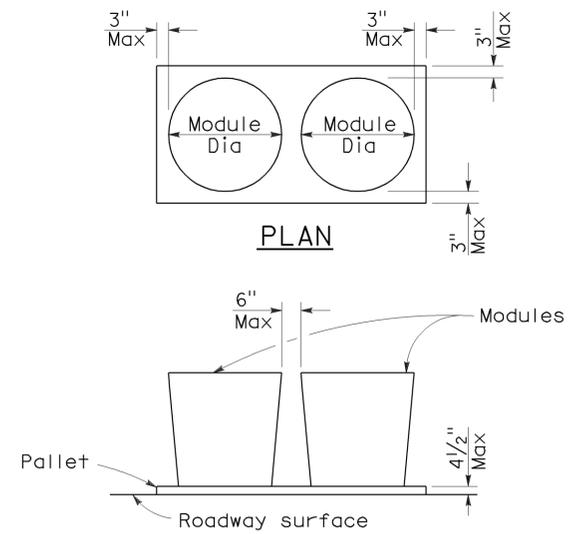
ARRAY 'TU21'

Approach speed 45 mph or more



ARRAY 'TU17'

Approach speed less than 45 mph



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
06	Fre	43	0.0/9.3	21	29

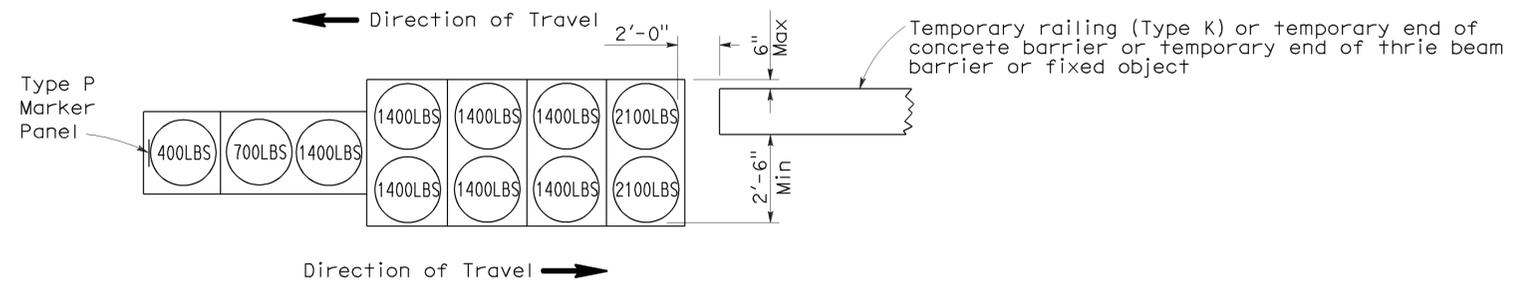
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

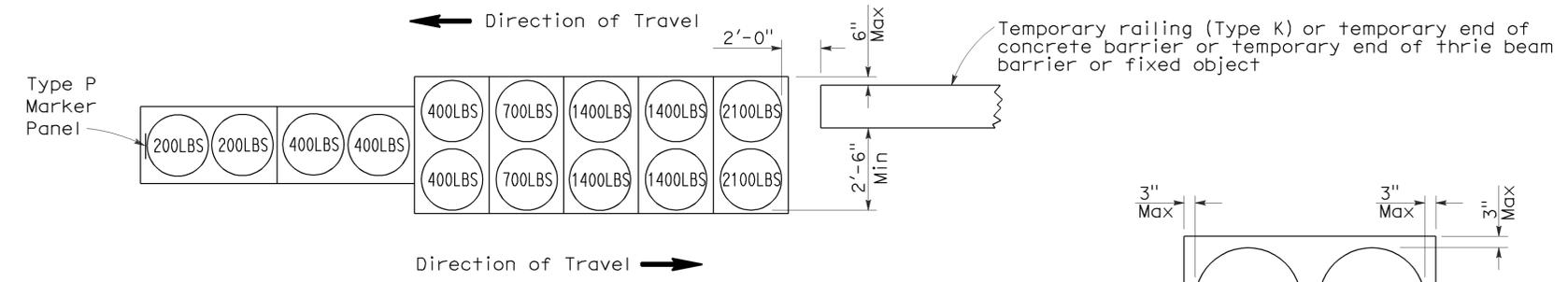
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To accompany plans dated 5-03-10



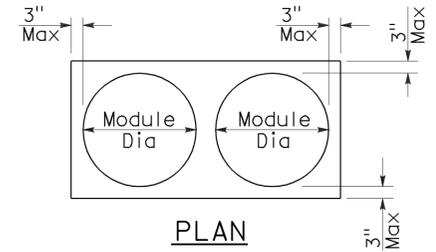
ARRAY 'TB11'

Approach speed less than 45 mph

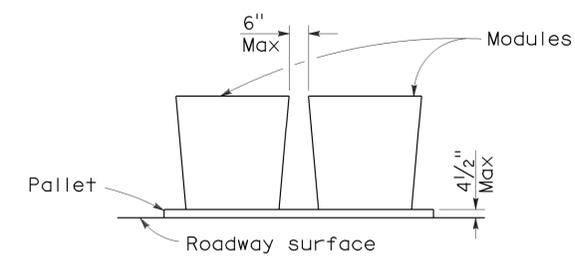


ARRAY 'TB14'

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	43	0.0/9.3	22	29

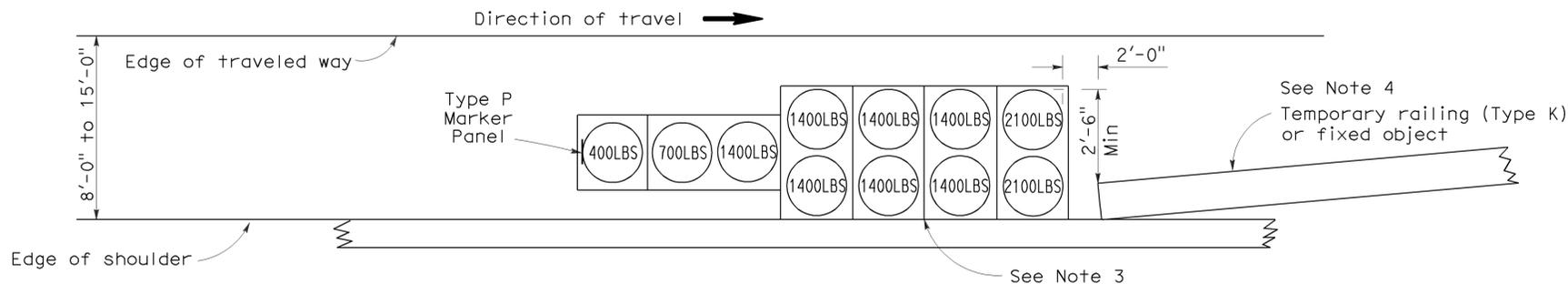
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

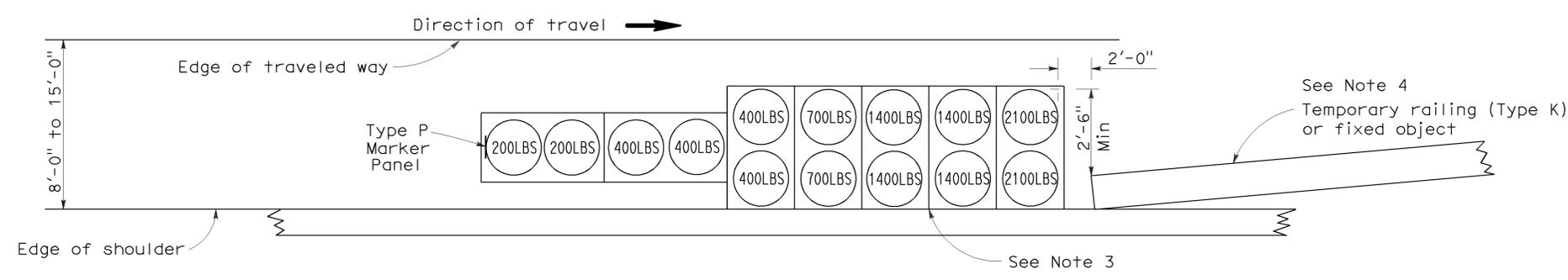
Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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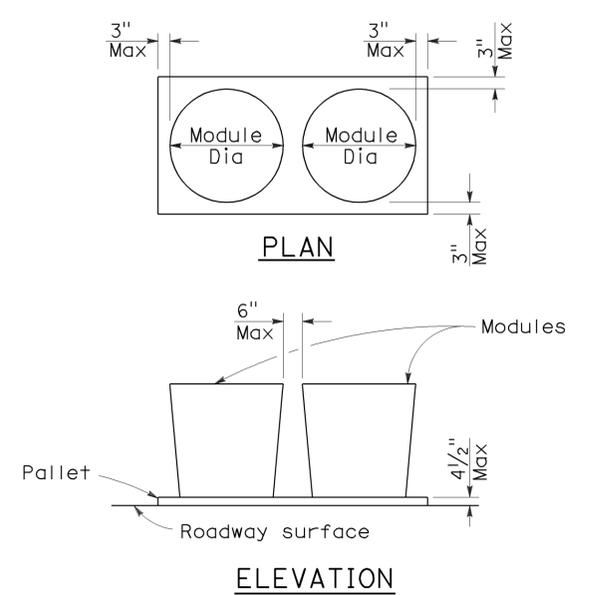
To accompany plans dated 5-03-10



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



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



CRASH CUSHION PALLET DETAIL
See Note 11

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.

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	43	0.0/9.3	23	29

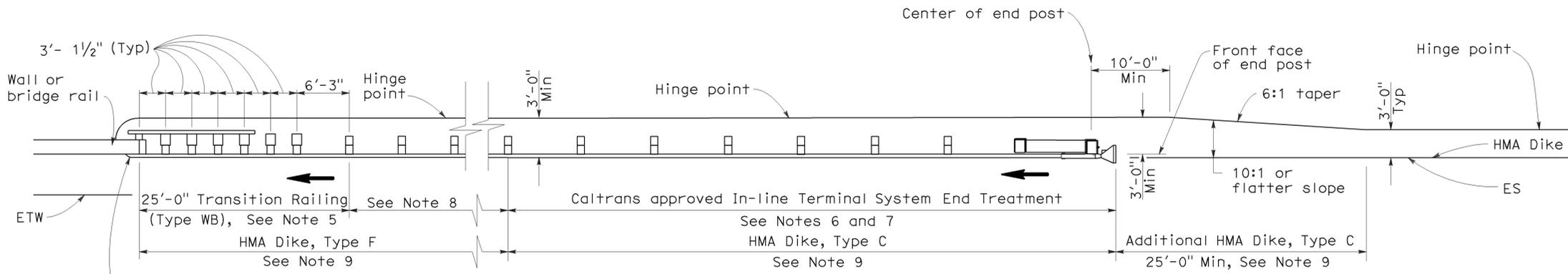
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

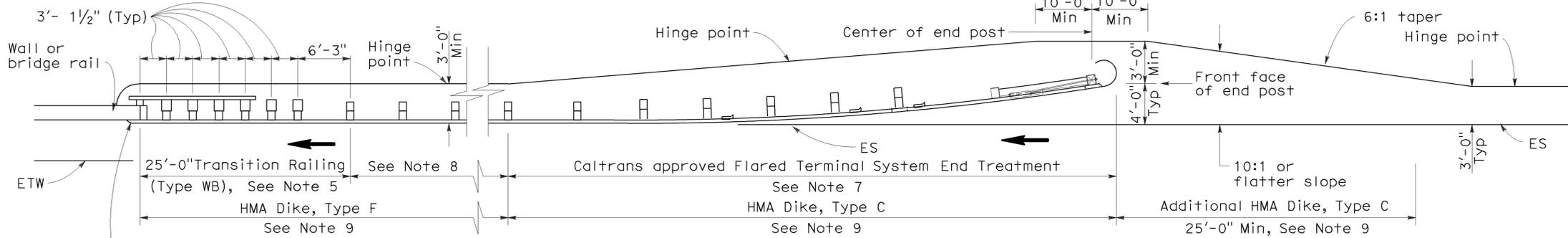
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To accompany plans dated 5-03-10



TYPE 12A LAYOUT

(GUARD RAILING INSTALLATION AT STRUCTURE APPROACH WITH AN IN-LINE END TREATMENT AT TRAFFIC APPROACH END OF RAILING)
See Notes 10



TYPE 12B LAYOUT

(GUARD RAILING INSTALLATION AT STRUCTURE APPROACH WITH A FLARED END TREATMENT AT TRAFFIC APPROACH END OF RAILING)
See Notes 10

NOTES:

- Line post, blocks and hardware to be used are shown on Standard Plans A77A1, A77A2, A77B1, A77C1 and A77C2.
- Guard rail post spacing to be 6'-3" center to center, except as otherwise noted.
- Except as noted, line posts are 6" x 8" x 6'-0" wood with 6" x 8" x 1'-2" wood blocks. W6 x 9 steel posts, 6'-0" in length, with 6" x 8" x 1'-2" notched wood blocks or plastic blocks may be used for 6" x 8" x 6'-0" wood posts with 6" x 8" x 1'-2" wood blocks where applicable and when specified.
- Direction of adjacent traffic indicated by \rightarrow .
- For Transition Railing (Type WB) details for Types 12A and 12B Layouts, see Standard Plan A77J4.
- In-line Terminal System End Treatments are used where site conditions will not accommodate a flared end treatment.
- The type of terminal system end treatment to be used will be shown on the Project Plans.
- Dependent on site conditions (embankment height, side slopes, or other fixed objects), it may be advisable to construct additional guard railing (a length equal to multiples of 12'-6" with 6'-3" post spacing) between the transition railing and end treatment.

- Where placement of dike is required with guard railing installations, see Revised Standard Plan RSP A77C4 for dike positioning details.
- Type 12A or Type 12B Layouts are typically used:
 - To the right of approaching traffic, at the end of a structure, on two-lane conventional highway where the roadbed width across the structure is less than 40 feet.
 - To the left of approaching traffic, at the end of a structure, on two-lane conventional highway where the roadbed width across the structure is less than 40 feet.
 - To the right of approaching traffic at the end of each structure on multilane freeways or expressways with separate adjacent or parallel bridges.
 - To the right of approaching traffic at the end of the structure on multilane freeways or expressways with decked median on the bridge.
- See Revised Standard Plan RSP A77F3 for typical layout used left of approaching traffic at the ends of each structure on multilane freeways or expressways with separate adjacent or parallel bridges.

- For additional details of typical connections to bridge rail, see Connection Detail AA on Revised Standard Plans RSP A77J1 and RSP A77J2 and Connection Detail FF on Standard Plans A77K1 and A77K2.
- For additional details of a typical connection to walls or abutments, see Standard Plan A77J3.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING
TYPICAL LAYOUTS FOR
STRUCTURE APPROACH**

NO SCALE

RSP A77F1 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77F1
DATED MAY 1, 2006 - PAGE 54 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77F1

2006 REVISED STANDARD PLAN RSP A77F1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	43	0.0/9.3	24	29

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

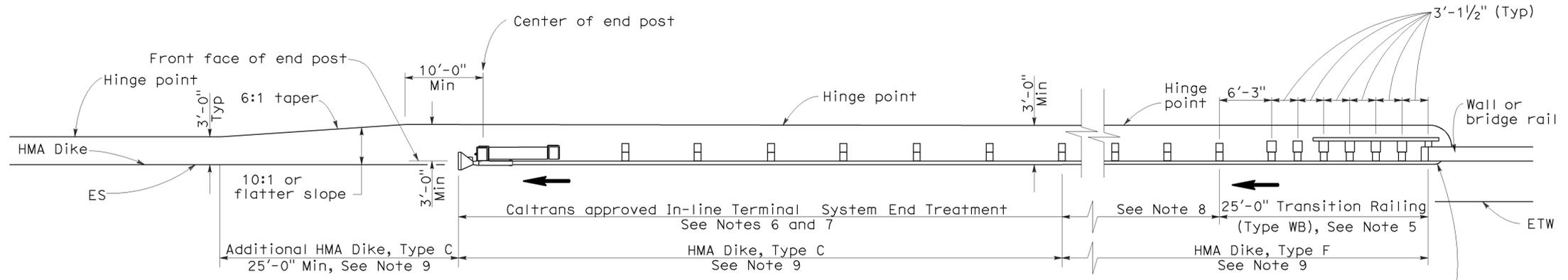
June 6, 2008
PLANS APPROVAL DATE

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

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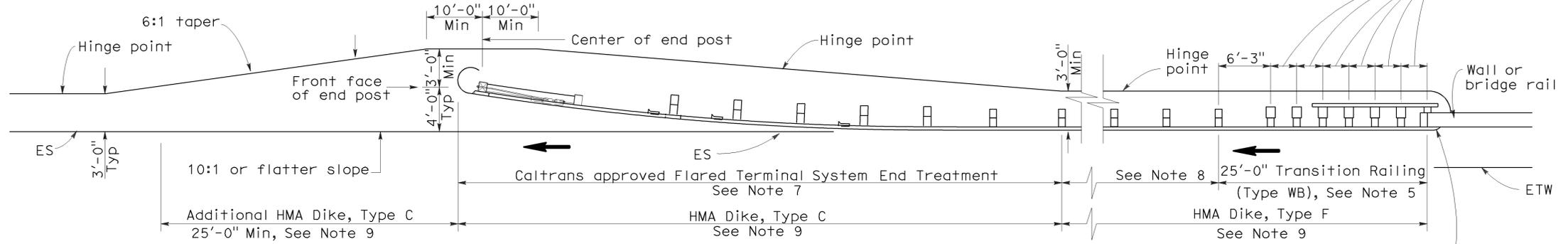
To accompany plans dated 5-03-10

2006 REVISED STANDARD PLAN RSP A77F4



TYPE 12AA LAYOUT

(GUARD RAILING INSTALLATION AT STRUCTURE DEPARTURE WITH AN IN-LINE END TREATMENT AT TRAILING END OF RAILING)
See Notes 9 and 10



TYPE 12BB LAYOUT

(GUARD RAILING INSTALLATION AT STRUCTURE DEPARTURE WITH A FLARED END TREATMENT AT TRAILING END OF RAILING)
See Notes 9 and 10

NOTES:

- Line post, blocks and hardware to be used are shown on Standard Plans A77A1, A77A2, A77B1, A77C1 and A77C2.
- Guard rail post spacing to be 6'-3" center to center, except as otherwise noted.
- Except as noted, line posts are 6" x 8" x 6'-0" wood with 6" x 8" x 1'-2" wood blocks. W6 x 9 steel posts, 6'-0" in length, with 6" x 8" x 1'-2" notched wood blocks or notched recycled plastic blocks may be used for 6" x 8" x 6'-0" wood posts with 6" x 8" x 1'-2" wood blocks where applicable and when specified.
- Direction of adjacent traffic indicated by →.
- For Transition Railing (Type WB) details for Types 12AA and 12BB Layouts, see Standard Plan A77J4.
- In-line Terminal System Treatments are used where site conditions will not accommodate a flared end treatment.
- The type of terminal system to be used will be shown on the Project Plans.
- Dependent on site conditions (embankment height, side slopes, other fixed objects), it may be advisable to construct additional guard railing (a length equal to multiples of 12'-6" with 6'-3" post spacing) between the transition railing and end treatments.
- Where placement of dike is required with guard railing installations, see Revised Standard Plan RSP A77C4 for dike positioning details.
- Type 12AA or Type 12BB Layouts are typically used to the right of traffic departing a structure on two-way conventional highways where the roadbed width across the structure is less than 40 feet.
- For additional details of typical connections to bridge rail, see Connection Detail CC on Revised Standard Plan RSP A77J2 and Connection Detail HH on Standard Plans A77k2.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**METAL BEAM GUARD RAILING
TYPICAL LAYOUTS FOR
STRUCTURE DEPARTURE**
NO SCALE

RSP A77F4 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77F4
DATED MAY 1, 2006 - PAGE 57 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77F4

ELECTROLIERS

STANDARD TYPES	Symbol	Description
15, 15D		High mast light pole
15 STRUCTURE		Double Arm lighting standard
21, 21D STRUCTURE		Existing electrolier
30		Electrolier foundation (Future installation)
31		
32		
35		
36-20A		

NOTES:

- Luminaires shall be 310 W HPS when installed on Type 21, 21D, 30, 31, 32, 35 and 36-20A Standards, unless otherwise specified. Luminaires shall be 200 W HPS when installed on other type standards or poles, unless otherwise specified.
- Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.
- Variations noted adjacent to symbol on project plans.

- Electrolier (see project notes or project plans)
- Luminaire on wood pole

STANDARD NOTES:

- AB** Abandon. If applied to conduit, remove conductors.
- BC** Install pull box in existing conduit run.
- BP** Pedestrian barricade, type as indicated on plan.
- CB** Install conduit into existing pull box.
- CC** Connect new and existing conduit. Remove existing conductors and install conductors as indicated.
- CF** Conduit to remain for future use. Remove conductors. Install pull wire or rope.
- DH** Detector handhole.
- FA** Foundation to be abandoned.
- IS** Install sign on signal mast arm.
- NS** No slip base on standard.
- PEC** Photoelectric control.
- PEU** Photoelectric unit.
- RC** Equipment or material to be removed and become the property of the Contractor.
- RE** Remove electrolier, fuses and ballast. Tape ends of conductors.
- RL** Relocate equipment.
- RR** Remove and reuse equipment.
- RS** Remove and salvage equipment.
- SC** Splice new to existing conductors.
- SD** Service disconnect.
- SF** Standard to remain for future use. Remove luminaire, pole conductors, fuses and ballast.
- TSP** Telephone service point.

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

PROPOSED EXISTING

BBS	bbs	Battery backup system
BC	bc	Bolt circle
C	C	Conduit
CCTV	cctv	Closed circuit television
CKT	ckt	Circuit
CMS	cms	Changeable message sign
DLC	dlc	Loop detector lead-in cable
EMS	ems	Extinguishable message sign
EVC	evc	Emergency vehicle cable
EVD	evd	Emergency vehicle detector
FB	fb	Flashing beacon
FBCA	fbca	Flashing beacon control assembly
FBS	fbs	Flashing beacon with slip base
FO	fo	Fiber optic
G	G	Ground (Equipment Grounding Conductor)
GFCI	GFCI	Ground fault circuit interrupt
HAR	har	Highway advisory radio
HEX	hex	Hexagonal
HPS	hps	High pressure sodium
IISNS	iisns	Internally illuminated street name sign
ISL	isl	Induction sign lighting
LED	led	Light emitting diode
LMA	lma	Luminaire mast arm
LPS	lps	Low pressure sodium
LTG	ltg	Lighting
LUM	lum	Luminaire
MAT	mat	Mast arm mounting vehicle signal faces, top attachment
MAS	mas	Mast arm mounting vehicle signal faces, side attachment
MAS-4A	mas-4A	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-4B	mas-4B	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-4C	mas-4C	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-5A	mas-5A	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
MAS-5B	mas-5B	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
MC	mc	Mercury contactor
M/M	m/m	Multiple to multiple transformer
MT	mt	Conduit with pull wire or rope only
MTG	mtg	Mounting
N	N	Mercury vapor lighting fixture
NC	NC	Neutral (Grounded Conductor)
NO	NO	Normally closed
PB	pb	Normally open
PEC	pec	Pull box
PEC	pec	Photoelectric control (Type I, II, III, IV or V as shown)
PED	ped	Pedestrian
PEU	peu	Photoelectric unit
PPB	ppb	Pedestrian push button
RL	rl	Relocated equipment
RM	rm	Ramp metering
SB	sb	Slip base
SIC	sic	Signal interconnect cable
SIG	sig	Signal
SMA	sma	Signal mast arm
SNS	sns	Street name sign
SP	sp	Service point
TDC	tdc	Telephone demarcation cabinet
TMS	tms	Traffic monitoring station
TOS	tos	Traffic Operations System
VEH	veh	Vehicle
XFMR	xfmr	Transformer
COMM	comm	Communication
RWIS	rwis	Roadway weather information system

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	43	0.0/9.3	25	29

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

Jeffery G. McRae
REGISTERED PROFESSIONAL ENGINEER
No. E14512
Exp. 6-30-08
ELECTRICAL
STATE OF CALIFORNIA

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To accompany plans dated 5-03-10

SOFFIT AND WALL MOUNTED LUMINAIRES

- Pendant, 70 W HPS unless otherwise specified.
- Flush, 70 W HPS unless otherwise specified.
- Wall surface, 70 W HPS unless otherwise specified.
- Existing soffit or wall luminaire to remain unmodified.
- Existing soffit or wall luminaire to be modified as specified.

NOTE:

Arrow indicates "street side" of luminaire.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN ES-1A
DATED MAY 1, 2006 - PAGE 400 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1A

2006 REVISED STANDARD PLAN RSP ES-1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	43	0.0/9.3	26	29

Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

October 5, 2007
 PLANS APPROVAL DATE

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To accompany plans dated 5-03-10

CONDUIT

PROPOSED	EXISTING	
		Lighting Conduit, unless otherwise indicated or noted
		Traffic signal conduit
		Communication conduit
		Telephone conduit
		Fire alarm conduit
		Fiber optic conduit
		Conduit termination
		Conduit riser in/on structure or service pole

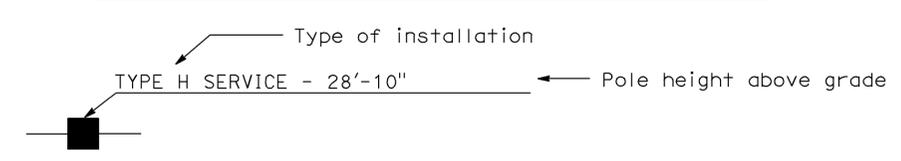
SIGNAL EQUIPMENT

PROPOSED	EXISTING	
		Pedestrian signal face
		Pedestrian push button post
		Pedestrian barricade
		Vehicle signal face (with backplate, 3-Section: red, yellow and green)
		Vehicle signal face with angle visors
		Modifications of basic symbols: "L" indicates all non-arrow sections louvered "LG" indicates louvered green section only "PV" indicates 12" programmed visibility sections "8" indicates all 8" sections (only when specified)
		Type 15TS and Vehicle signal face
		Vehicle signal face with red, yellow and green left arrow sections
		Vehicle signal face with red and yellow sections and up green arrow
		Vehicle signal face (5 Section) with red, yellow and green sections and yellow and green right arrows
		Type 1 Standard and attached vehicle signal faces
		Standard with signal mast arm only and attached vehicle signal faces and internally illuminated street name sign
		Type 33 Standard, Left-turn vehicle signal face and sign
		Standard with luminaire and signal mast arms and attached vehicle signal faces
		Cantilever flashing beacon Type 9 Frame, with a sign unless otherwise specified or indicated
		Type 15-FBS Standard with two vehicle signal face sections with lens, backplate and visor with a sign
		Flashing beacon. One vehicle signal face section with lens, backplate and visor. "R" indicates red indication, "Y" indicates yellow indication
		Controller assembly. Door indicates front of cabinet

SERVICE EQUIPMENT

PROPOSED	EXISTING	
		Overhead lines
		Wood pole "U" indicates utility owned
		Pole guy with anchor
		Utility transformer - ground mounted
		Service equipment enclosure type
		Service equipment enclosure door indicates front of enclosure
		Telephone demarcation cabinet

POLE-MOUNTED SERVICE DESIGNATION



ILLUMINATED OVERHEAD SIGN

PROPOSED	EXISTING	
		Overhead sign - Single post
		Overhead sign - Two post
		Overhead sign - Mounted on structure
		Overhead sign with electrolier

SIGNAL EQUIPMENT Cont

PROPOSED	EXISTING	
		Guard post
		Type 1 Standard with "Meter On" sign
		Emergency Vehicle detector

NOTES:

- All signal sections shall be 12" unless shown otherwise.
- Signal heads shall be provided with backplates unless shown otherwise.
- Signal indication shall be LED.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(SYMBOLS AND ABBREVIATIONS)
 NO SCALE

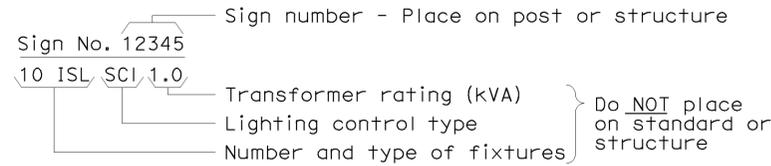
RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

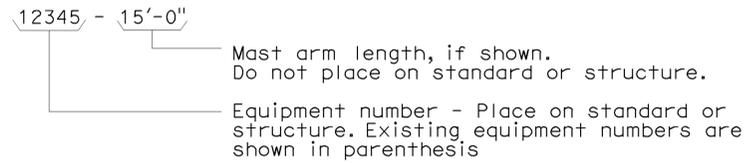
2006 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

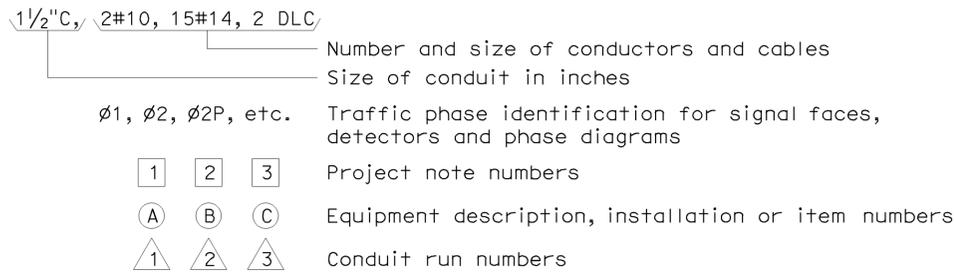
ILLUMINATED SIGN IDENTIFICATION NUMBER:



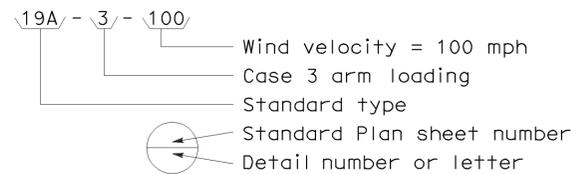
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



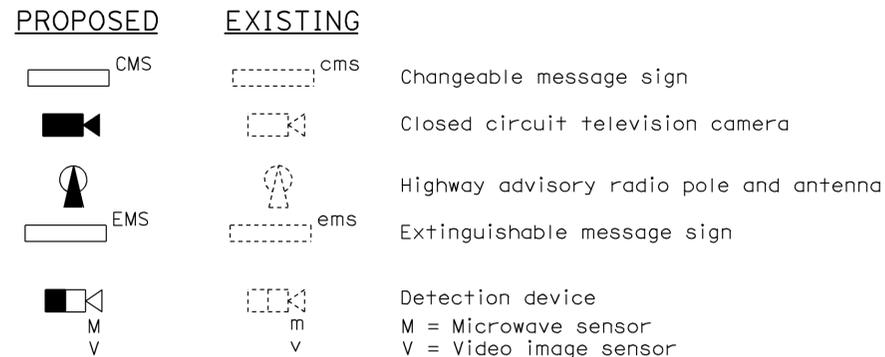
CONDUIT AND CONDUCTOR IDENTIFICATION:



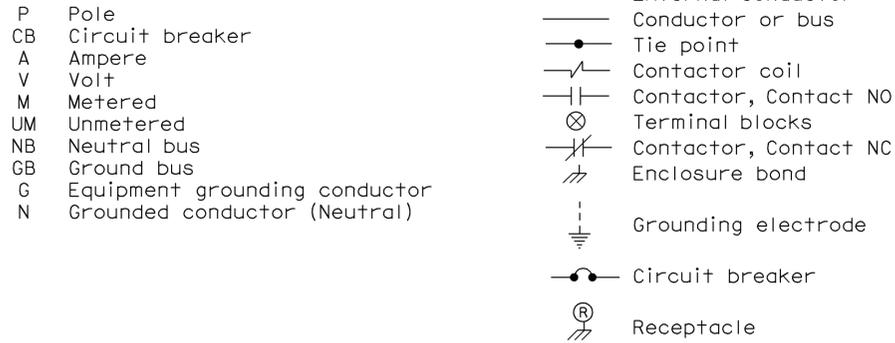
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



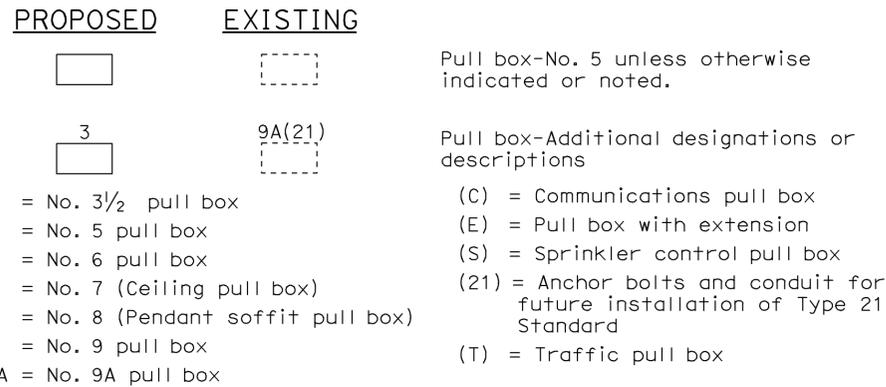
MISCELLANEOUS EQUIPMENT



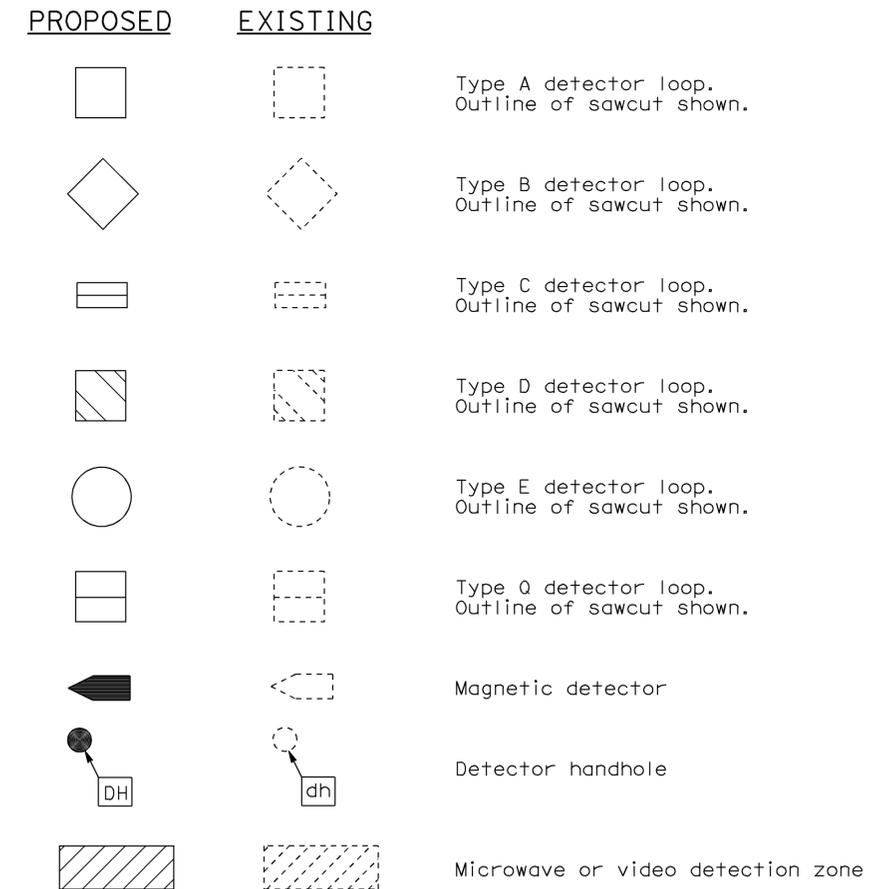
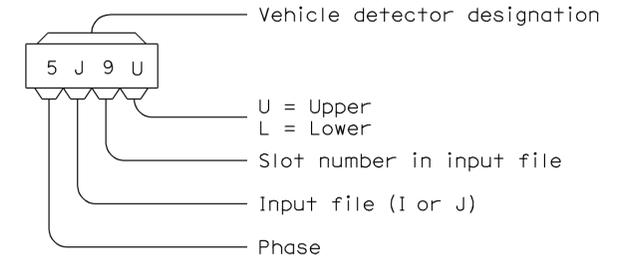
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1C
 DATED MAY 1, 2006 - PAGE 402 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP ES-1C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	43	0.0/9.3	28	29

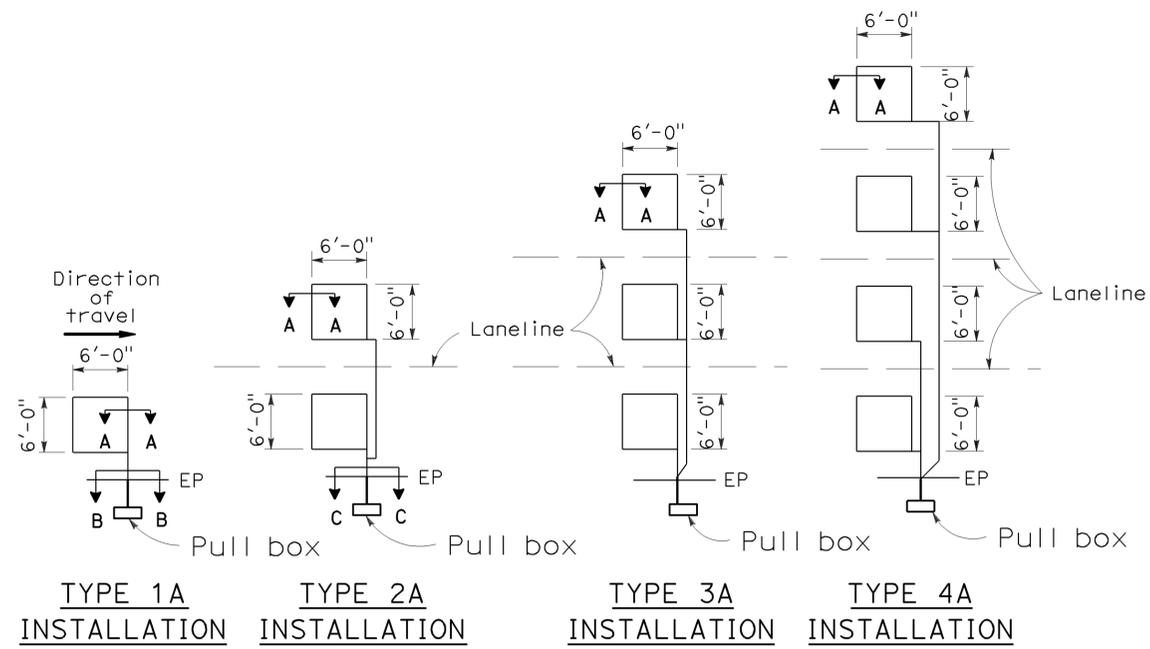
Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

October 5, 2007
 PLANS APPROVAL DATE

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LOOP INSTALLATION PROCEDURE

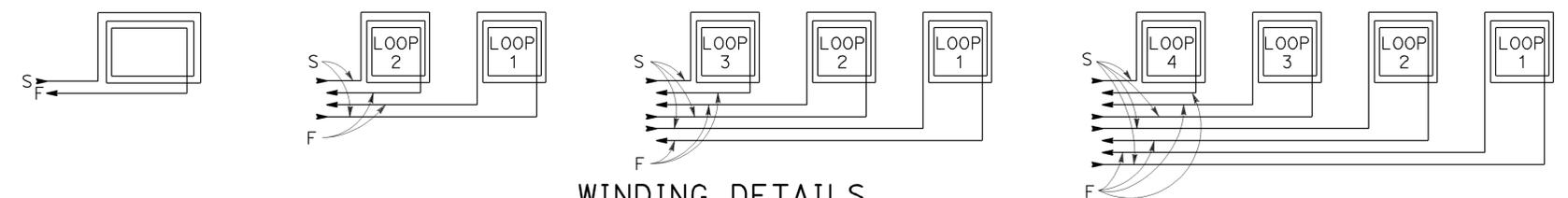
- Loops shall be centered in lanes.
- Saw slots in pavement for loop conductors as shown in details.
- Distance between side of loop and a lead-in saw cut from adjacent detectors shall be 2'-0" minimum. Distance between lead-in saw cuts shall be 6" minimum.
- Bottom of saw slot shall be smooth with no sharp edges.
- Slots shall be washed until clean, blown out and thoroughly dried before installing loop conductors.
- Adjacent loops on the same sensor unit channel shall be wound in opposite directions.
- Identify and tag loop circuit pairs in the pull box with loop number, start (S) and finish (F) of conductor. Identify and tag lead-in-cable with sensor number and phase.
- Install loop conductor in slot using a 3/16" to 1/4" thick wood paddle. Hold loop conductors with wood paddles (at the bottom of the sawed slot) during sealant placement.
- No more than 2 twisted pairs shall be installed in one sawed slot.
- Allow additional 5'-0" of slack length of conductor for the lead-in run to pull box.
- The additional length of each conductor for each loop shall be twisted together into a pair (6 turns per 3'-4" minimum) before being placed in the slot and conduit leading to pull box.
- Test each loop circuit for continuity, circuit resistance and insulation resistance at the pull box before filling slots.
- Fill slots as shown in details.
- Splice loop conductors to lead-in-cable. Splices shall be soldered.
- End of lead-in-cable and Type 2 loop conductor shall be waterproofed prior to installing in conduit to prevent moisture from entering the cable.
- Lead-in-cable shall not be spliced between the pull box and the controller cabinet terminals.
- Test each loop circuit for continuity, circuit resistance and insulation resistance at the controller cabinet location.
- Where loop conductors are not to be spliced to a lead-in-cable, the ends of the conductors shall be taped and waterproofed with electrical insulating coating.



TYPE 1A INSTALLATION TYPE 2A INSTALLATION TYPE 3A INSTALLATION TYPE 4A INSTALLATION

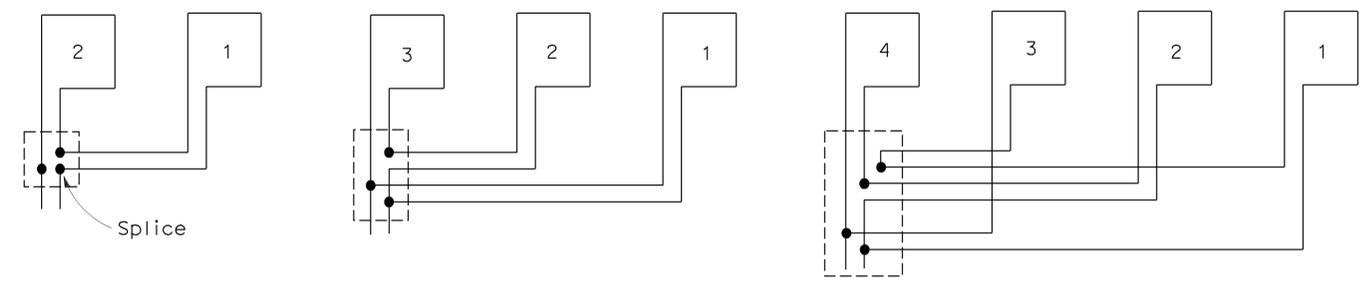
SAWCUT DETAILS

- (Type A loop detector configurations illustrated)
- 1A thru 4A = 1 Type A loop configuration in each lane.
 - 1B thru 4B = 1 Type B loop configuration in each lane.
 - 1C = 1 Type C loop configuration entering lanes as required.
 - 1D thru 4D = 1 Type D loop configuration in each lane.
 - 1E thru 4E = 1 Type E loop configuration in each lane.
 - 1Q thru 4Q = 1 Type Q loop configuration in each lane.
- (Use Type A, B, C, D, E or Q loop detector configurations only when specified or shown on plans)



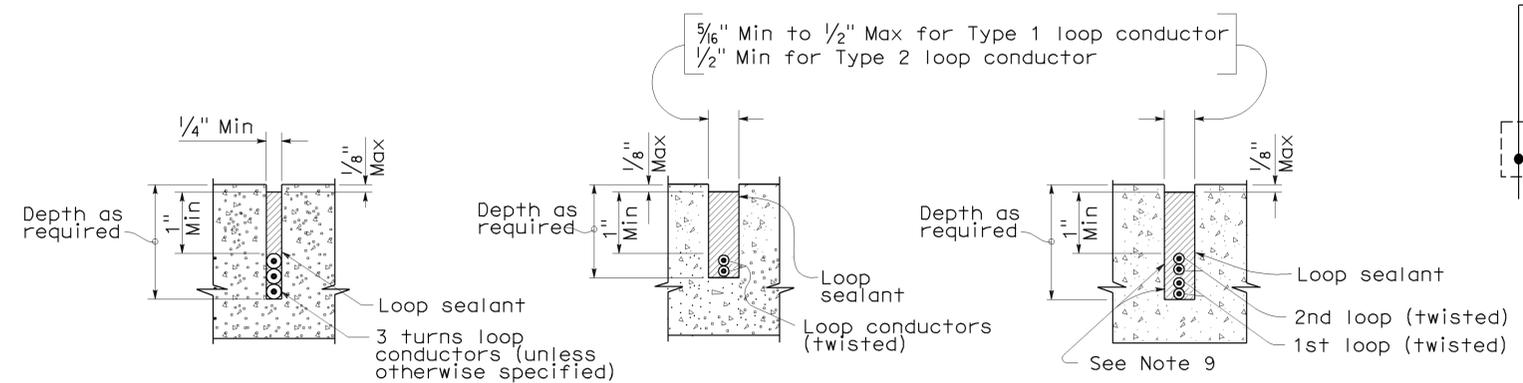
WINDING DETAILS

See Notes 6 and 7



TYPICAL LOOP CONNECTIONS

(Dashed lines represent the pull box)



SECTION A-A SECTION B-B SECTION C-C
 SLOT DETAILS - TYPE 1 AND TYPE 2 LOOP CONDUCTOR

ELECTRICAL SYSTEMS (DETECTORS)

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

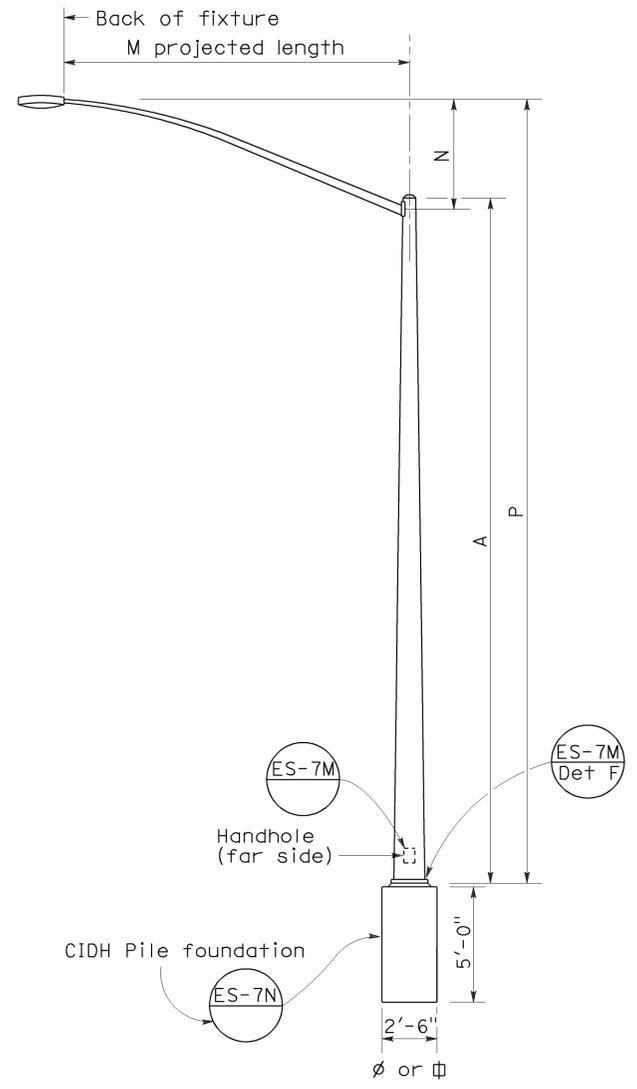
NO SCALE

RSP ES-5A DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-5A
 DATED MAY 1, 2006 - PAGE 423 OF THE STANDARD PLANS BOOK DATED MAY 2006.

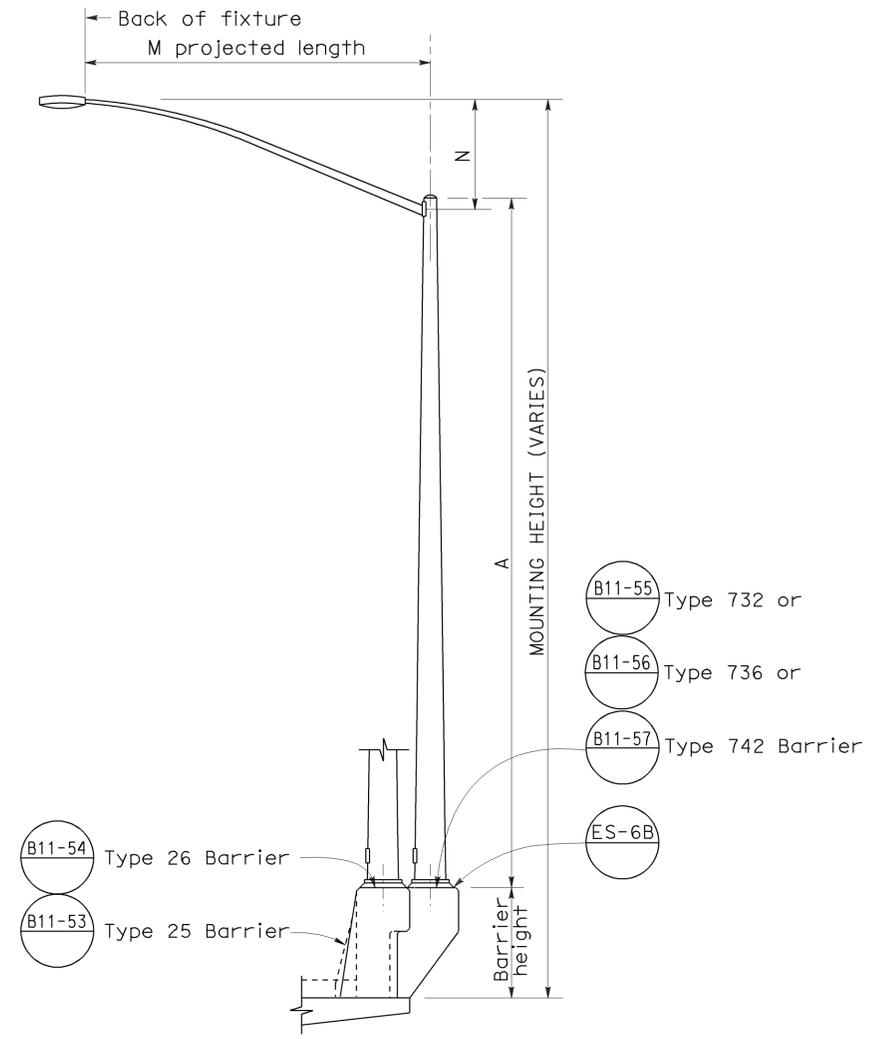
REVISED STANDARD PLAN RSP ES-5A

2006 REVISED STANDARD PLAN RSP ES-5A

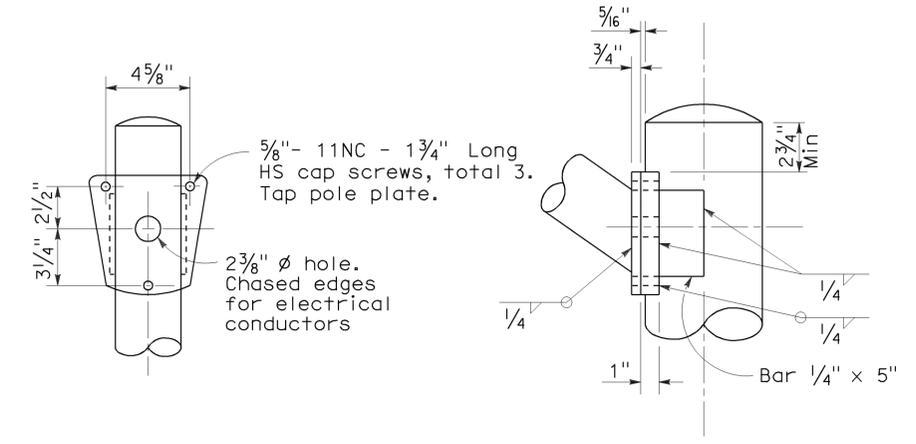
To accompany plans dated 5-03-10



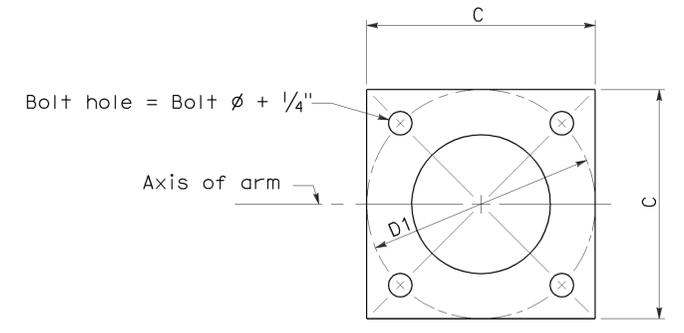
ELEVATION
TYPE 15 AND TYPE 21



ELEVATION
TYPE 15 AND TYPE 21 BARRIER RAIL MOUNTED



DETAIL R
LUMINAIRE ARM CONNECTION



BASE PLATE

POLE TYPE	POLE DATA				BASE PLATE DATA				LUMINAIRE ARM
	A Height	Min OD Base	Min OD Top	Wall Thickness	C	D1 Bolt Circle	Thick-ness	Anchor Bolts Size	
15	30'	8"	3 7/8"	0.1196"	1'-0"	1'-0"	1"	1" ϕ x 3'-0" x 4"*	6' - 15' 12'
21	35'	8 5/8"	3 7/8"	0.1196"	1'-0"	1'-0"	1"	1 1/4" ϕ x 3'-0" x 4"*	6' - 15' 12'

* For barrier rail bolts, see Standard Plan ES-6B.

M Projected Length	N Rise	Min OD At Pole	Nominal Thickness	LUMINAIRE ARM DATA	
				Type 15	Type 21
6'-0"	2'-0"±	3/4"	0.1196"	31'-6"±	36'-6"±
8'-0"	2'-6"±	3/2"	0.1196"	32'-0"±	37'-0"±
10'-0"	3'-3"±	3 7/8"	0.1196"	32'-9"±	37'-9"±
12'-0"	4'-3"±	3 7/8"	0.1196"	33'-9"±	38'-9"±
15'-0"	4'-9"±	4 1/4"	0.1196"	34'-3"±	39'-3"±

NOTES:

- Indicates arm length to be used unless otherwise noted on the plans.
- For Type 15-SB, use Type 15 standard with Type 30 slip base plate details, see Standard Plan ES-6F.
- For additional notes, see Standard Plan ES-7M and ES-7N.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(LIGHTING STANDARD
TYPES 15 AND 21)

NO SCALE

RSP ES-6A DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-6A DATED MAY 1, 2006 - PAGE 427 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-6A

2006 REVISED STANDARD PLAN RSP ES-6A