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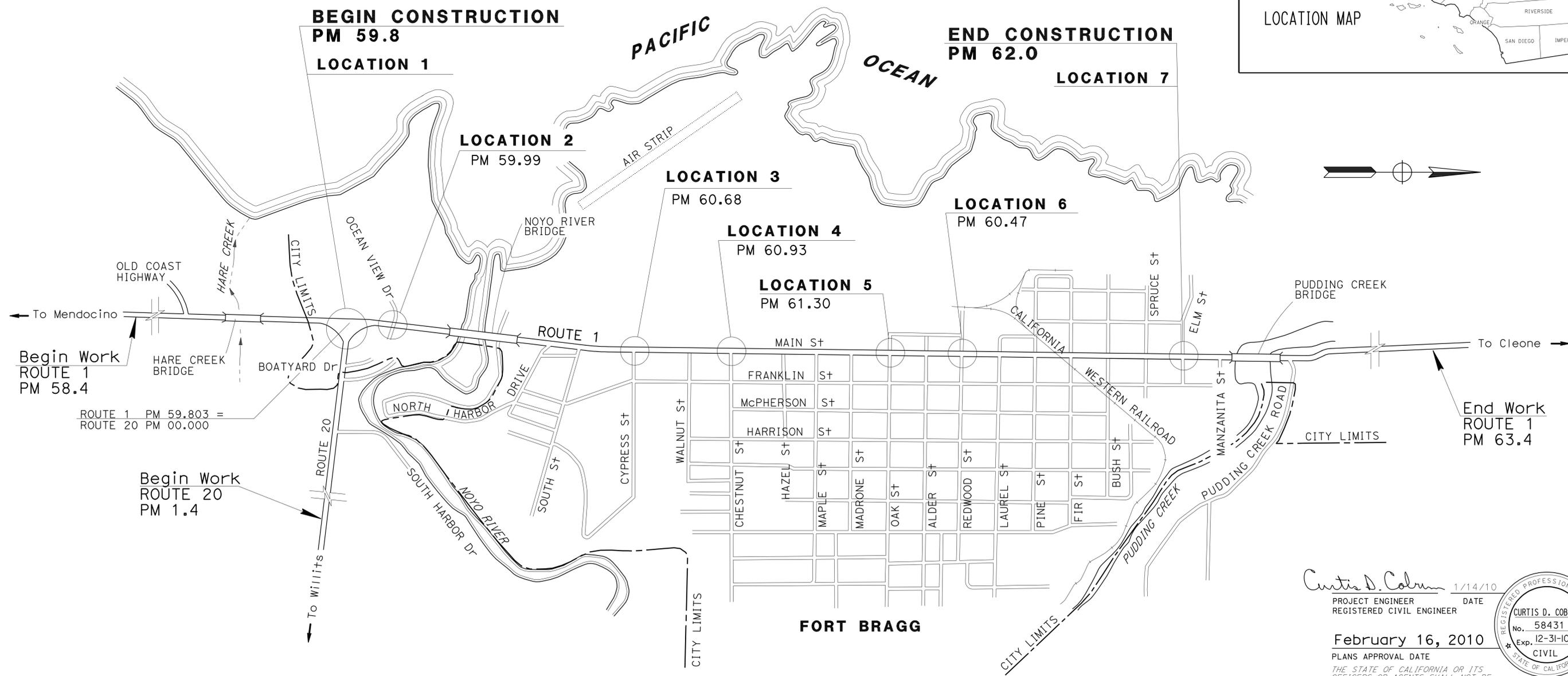
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN MENDOCINO COUNTY
IN FORT BRAGG AT VARIOUS LOCATIONS
FROM ROUTE 20 TO ELM STREET

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

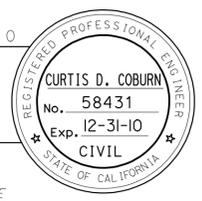
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	59.8/62.0	1	16

LOCATION MAP



PROJECT MANAGER
R. B. McCarthy
 DESIGN ENGINEER
R. B. McCarthy

Curtis D. Coburn 1/14/10
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
February 16, 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.



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

NO SCALE

CONTRACT No. **01-492604**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	59.8/62.0	2	16

Brian T. Finck 1/13/10
REGISTERED ELECTRICAL ENGINEER DATE

2-16-10
PLANS APPROVAL DATE

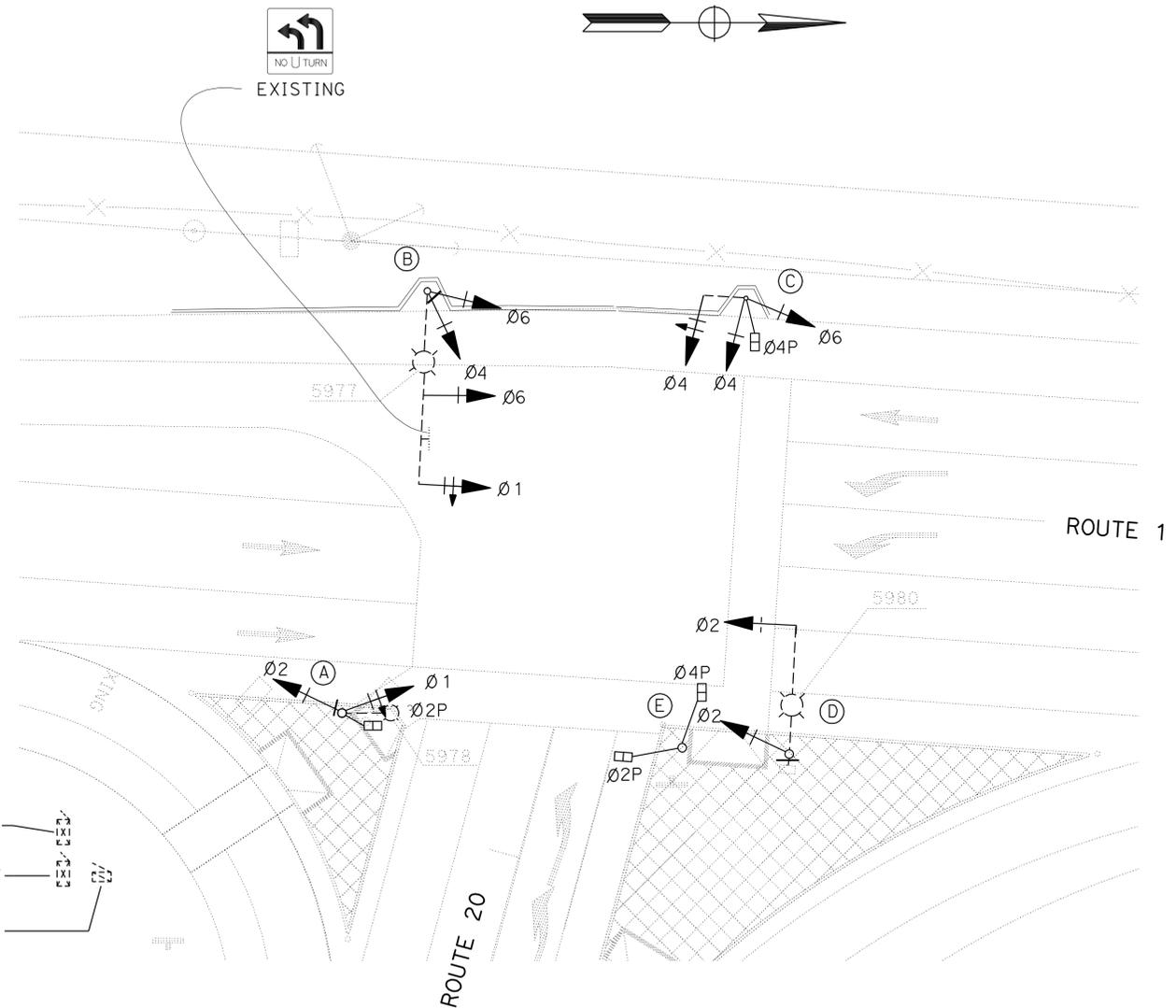
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REGISTERED PROFESSIONAL ENGINEER
BRIAN T. FINCK
No. 17756
Exp. 6-30-10
ELECTRICAL
STATE OF CALIFORNIA

PROPOSED POLE AND EQUIPMENT SCHEDULE													
No.	STANDARD			VEH SIG MTG			PED SIGNAL			PPB		HPS LUMINAIRE	SPECIAL REQUIREMENTS
	TYPE	SMA	LMA	Ø	TYPE	MTG	Ø	TYPE	MTG	Ø	ARROW		
A	15		12'	1	LA	SV-2-TB	2	A	SP-1-T	2	→	200 W	ADD NEW ROUTE 20 SHIELD & FNBT
				2	12"								
B	24-4-80	35'	15'	1	LA	SV-2-TB						200 W	ADD NEW ROUTE 20 SHIELD & FSBT
				4	12"								
				6	12"								
C	16-1-113	15'		4	LA	SV-2-TA	4	A	SP-1-T	4	←		
				4	12"								
				6	12"								
D	17-2-29	20'	12'	2	12"	SV-1-T						200 W	ADD NEW ROUTE 1 SHIELD &
				2	12"								
E	1-A(7')						2	A	TP-2-T	2	→		
							4	A		4	→		

- NOTES:**
LA = 3-12" LEFT ARROW SECTIONS.
12" = 3-12" CIRCULAR SECTIONS.
5(12") = 5-12" SECTIONS.
- EXCEPT AS OTHERWISE SHOWN, POLE SCHEDULE EQUIPMENT IS EXISTING.
 - THE CONTRACTOR SHALL VERIFY MOUNTINGS IN THE FIELD PRIOR TO ORDERING.
 - REPLACE VEHICLE AND PEDESTRIAN SIGNAL HEADS AND MOUNTINGS AS SHOWN.
RS Exist VEHICLE AND PEDESTRIAN SIGNAL HEADS AND MOUNTINGS.
 - REPLACE PEDESTRIAN PUSH BUTTONS WITH NEW TYPE B PEDESTRIAN PUSH BUTTON AT CORRECT MOUNTING HEIGHT.
 - ROUTE SHIELD MOUNT AT 18' (STRAP AND SADDLE BRACKET).

SIGNAL PHASES			
Ø1	Ø2P ←---→ Ø2		↑ Ø4P ↓ Ø4
	←		
	Ø6		



MODIFY SIGNAL AND LIGHTING
(JUNCTION ROUTE 1 & 20)

E-1

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC ELECTRICAL
FUNCTIONAL SUPERVISOR: Troy A. Arseneau
DESIGNED BY: Brian Finck
CHECKED BY: Curtis Coburn
REVISOR: Brian Finck
DATE: 2-16-10
SHEET NO. 2
TOTAL SHEETS 16



USERNAME => trr1chf
DGN FILE => 149260u001.dgn

CU 01601

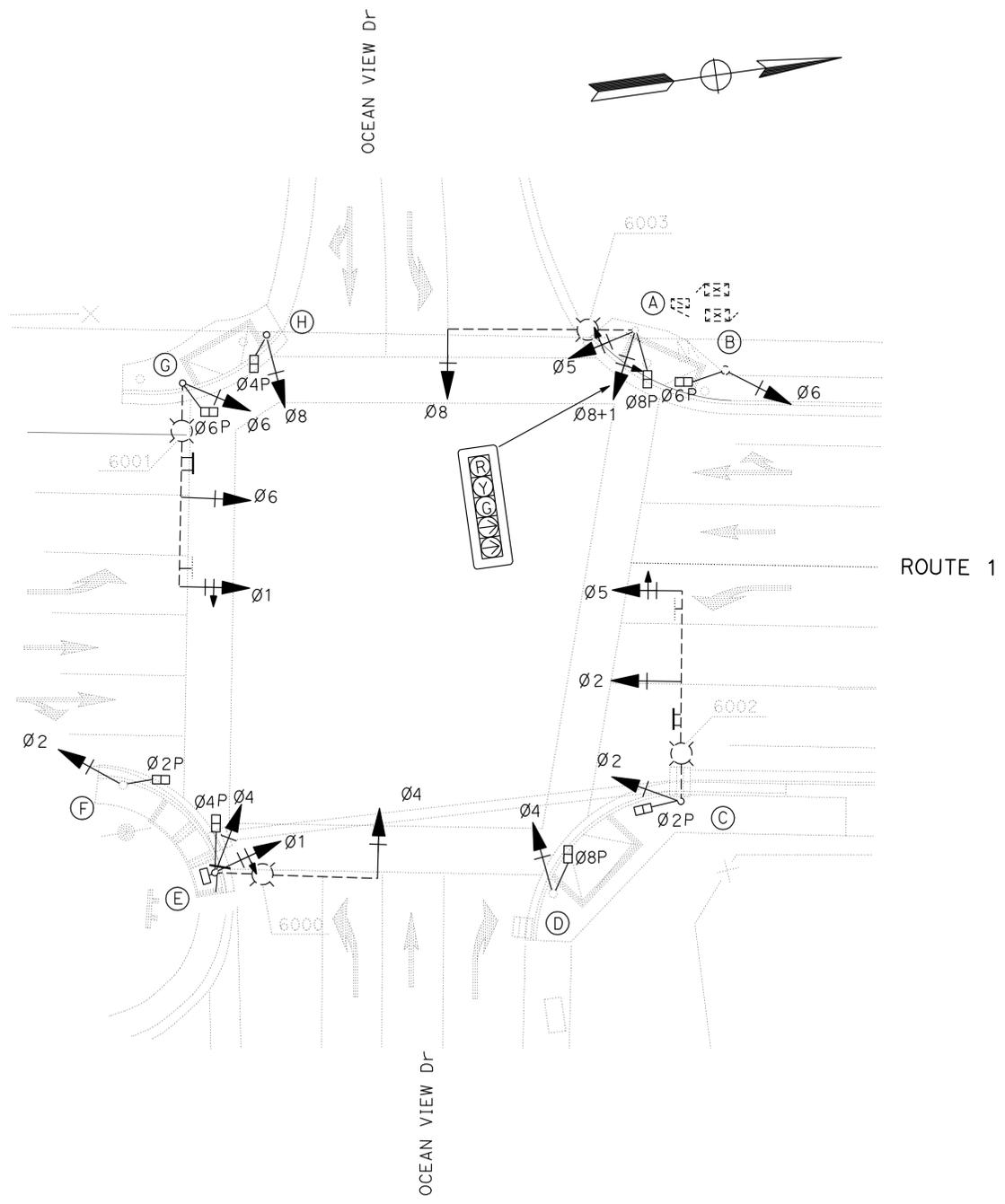
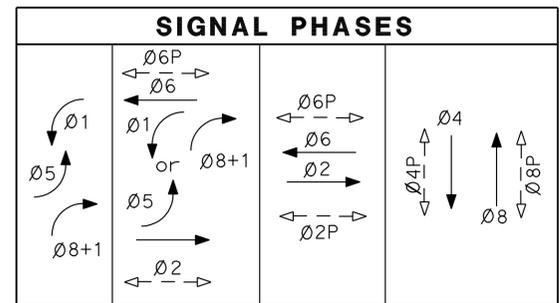
EA 492601

BORDER LAST REVISED 4/11/2008

LAST REVISION: 00-00-00
DATE PLOTTED: 24-FEB-2010
TIME PLOTTED: 10:23

PROPOSED POLE AND EQUIPMENT SCHEDULE													
No.	STANDARD			VEH SIG MTG			PED SIGNAL			PPB		HPS LUMINAIRE	SPECIAL REQUIREMENTS
	TYPE	SMA	LMA	Ø	TYPE	MTG	Ø	TYPE	MTG	Ø	ARROW		
A	26-3-80	40'	15'	8	12"	MAS	8	A	SP-1-T	8	←	200 W	5 SECTION HEAD REMOVE [OCEAN VIEW Dr] SIGN FROM SIGNAL POLE
				5	LA	SV-2-TB				6	←		
				8+1	5(12")								
B	1-A			6	12"	TV-1-T	6	A	SP-1-T				
C	24-4-129	40'	12'	2	12"	MAS	2	A	SP-1-T	8	←	200 W	NEW HANGING [OCEAN VIEW Dr] SIGN FROM SIGNAL MAST ARM
				2	12"	SV-1-T							
				5	LA	MAS							
D	1-A			4	12"	TV-1-T	8	A	SP-1-T	2	→		
E	26-3-80	40'	15'	4	12"	MAS	4	A	SP-1-T	2	←	200 W	REMOVE [OCEAN VIEW Dr] SIGN FROM SIGNAL POLE
				4	12"	SV-2-TB							
				1	LA								
F	1-A			2	12"	TV-1-T	2	A	SP-1-T	4	→		
G	24-4-129	40'	15'	1	LA	MAS	6	A	SP-1-T	4	←	150 W	NEW HANGING [OCEAN VIEW Dr] SIGN FROM SIGNAL MAST ARM
				6	12"	MAS							
				6	12"	SV-1-T							
H	1-A			8	12"	TV-1-T	4	A	SP-1-T	6	→		

- NOTES:**
 LA = 3-12" LEFT ARROW SECTIONS.
 12" = 3-12" CIRCULAR SECTIONS.
 5(12") = 5-12" SECTIONS.
- EXCEPT AS OTHERWISE SHOWN, POLE SCHEDULE EQUIPMENT IS EXISTING.
 - THE CONTRACTOR SHALL VERIFY MOUNTINGS IN THE FIELD PRIOR TO ORDERING.
 - REPLACE VEHICLE AND PEDESTRIAN SIGNAL HEADS AND MOUNTINGS AS SHOWN.
 EXIST VEHICLE AND PEDESTRIAN SIGNAL HEADS AND MOUNTINGS.
 - REPLACE PEDESTRIAN PUSH BUTTONS WITH NEW TYPE B PEDESTRIAN PUSH BUTTON AT CORRECT MOUNTING HEIGHT.
 - ROUTE SHIELD MOUNT AT 18' (STRAP AND SADDLE BRACKET).



**MODIFY SIGNAL AND LIGHTING
(OCEAN VIEW DRIVE)**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC ELECTRICAL

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => trr1chf
 DGN FILE => 149260u0002.dgn

CU 01601

EA 492601

BORDER LAST REVISED 4/11/2008

LAST REVISION DATE PLOTTED => 24-FEB-2010
 00-00-00 TIME PLOTTED => 10:23

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	59.8/62.0	4	16

Brian T. Finck 1/13/10
REGISTERED ELECTRICAL ENGINEER DATE

2-16-10
PLANS APPROVAL DATE

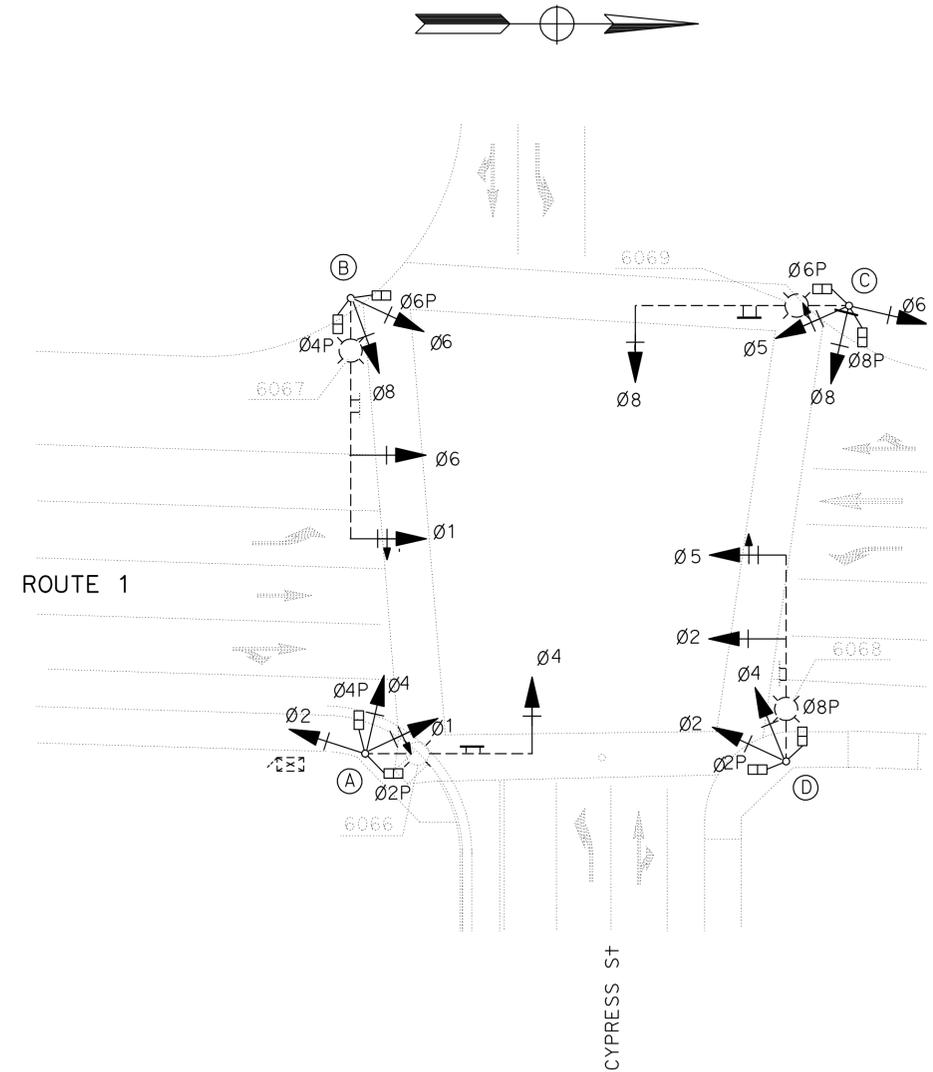
BRIAN T. FINCK
No. 17756
Exp. 6-30-10
ELECTRICAL
STATE OF CALIFORNIA

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No.	STANDARD			VEH SIG MTG			PED SIGNAL			PPB		HPS LUMINAIRE	SPECIAL REQUIREMENTS
	TYPE	SMA	LMA	Ø	TYPE	MTG	Ø	TYPE	MTG	Ø	ARROW		
A	26-4-80	40'	15'	4	12"	MAS	2	A	SP-2-T	2	←	200 W	NEW HANGING [SOUTH MAIN St] SIGN FROM SIGNAL MAST ARM
				4	12"								
				1	LA	SV-3-TB	4	A		→			
				2	12"								
B	29-9-80	40'	15'	1	LA	MAS	4	A	SP-2-T	4	←	200 W	
				6	12"	MAS							
				6	12"	SV-2-TB	6	A		←			
				8	12"								
C	26-4-80	40'	15'	8	12"	MAS	6	A	SP-2-T	6	→	200 W	ADD NEW ROUTE 1 SHIELD & NEW HANGING [SOUTH MAIN St] SIGN FROM SIGNAL MAST ARM
				5	LA								
				6	12"	SV-3-TB	8	A		→			
				8	12"								
D	26-4-80	40'	15'	5	LA	MAS	2	A	SP-2-T	2	→	200 W	
				2	12"	MAS							
				2	12"	SV-2-TB	8	A		←			
				4	12"								

NOTES:

- LA = 3-12" LEFT ARROW SECTIONS.
- 12" = 3-12" CIRCULAR SECTIONS.
- 5(12") = 5-12" SECTIONS.
- 1. EXCEPT AS OTHERWISE SHOWN, POLE SCHEDULE EQUIPMENT IS EXISTING.
- 2. THE CONTRACTOR SHALL VERIFY MOUNTINGS IN THE FIELD PRIOR TO ORDERING.
- 3. REPLACE VEHICLE AND PEDESTRIAN SIGNAL HEADS AND MOUNTINGS AS SHOWN.
- RS Exist VEHICLE AND PEDESTRIAN SIGNAL HEADS AND MOUNTINGS.
- 4. REPLACE PEDESTRIAN PUSH BUTTONS WITH NEW TYPE B PEDESTRIAN PUSH BUTTON AT CORRECT MOUNTING HEIGHT.
- 5. ROUTE SHIELD MOUNT AT 18' (STRAP AND SADDLE BRACKET).



SIGNAL PHASES			
Ø1	← Ø2P → → Ø2		↓ Ø4P ↑ Ø4
Ø5	← Ø6P → ← Ø6		↑ Ø8 ↓ Ø8P

**MODIFY SIGNAL AND LIGHTING
(CYPRESS STREET)**

E-3

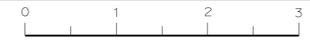
THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC ELECTRICAL

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES



USERNAME => trr1chf
DGN FILE => 149260u003.dgn

CU 01601

EA 492601

LAST REVISION DATE PLOTTED => 24-FEB-2010
00-00-00 TIME PLOTTED => 10:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	59.8/62.0	5	16

Brian T. Finck 1/13/10
 REGISTERED ELECTRICAL ENGINEER DATE

2-16-10
 PLANS APPROVAL DATE

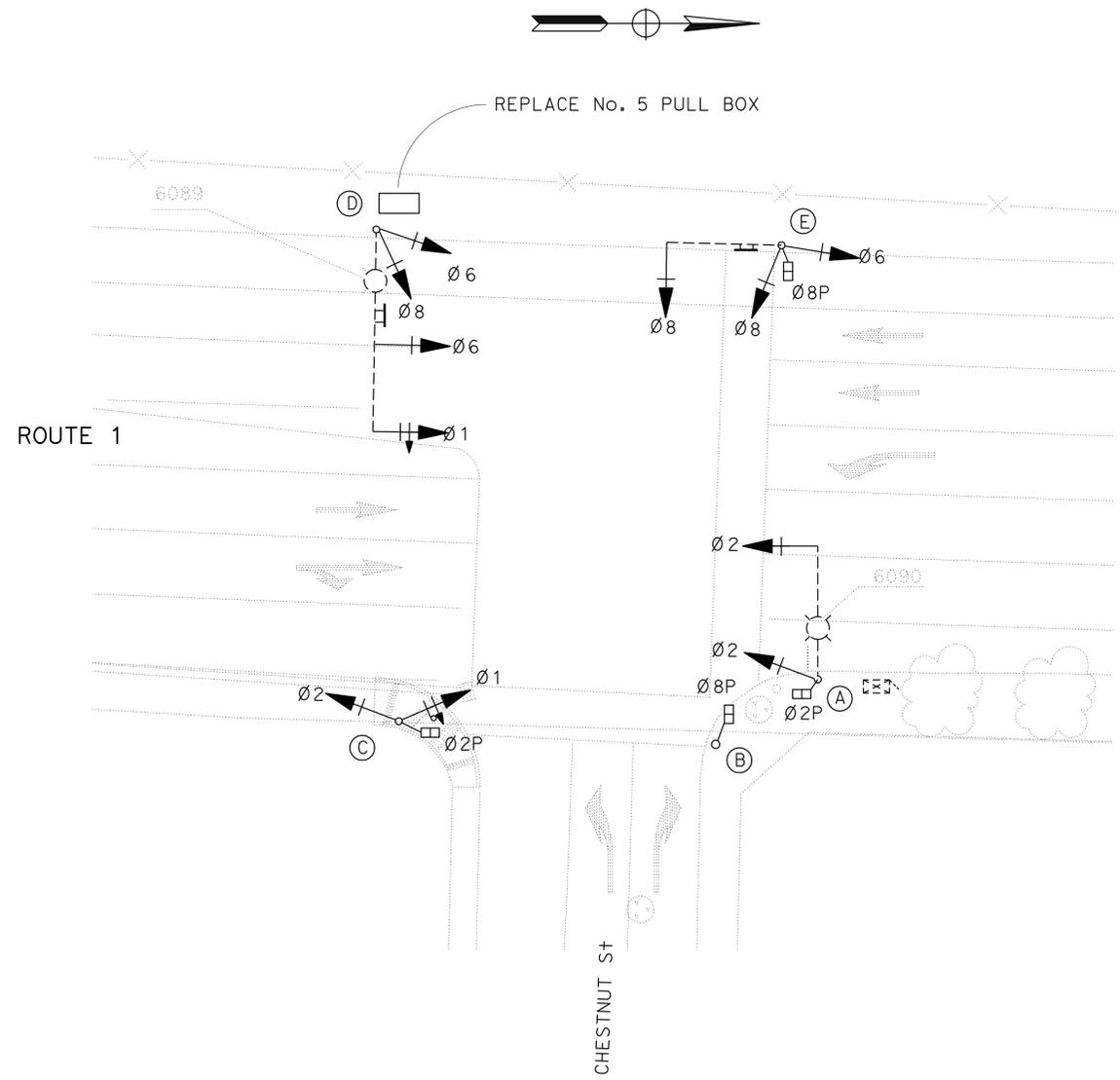
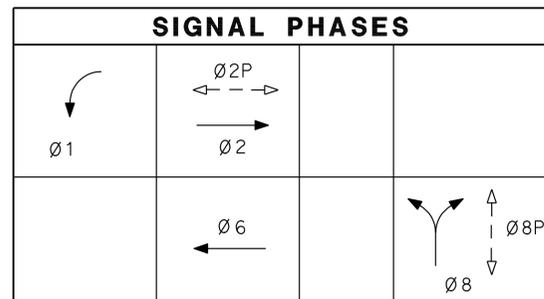
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REGISTERED PROFESSIONAL ENGINEER
 BRIAN T. FINCK
 No. 17756
 Exp. 6-30-10
 ELECTRICAL
 STATE OF CALIFORNIA

No.	STANDARD			VEH SIG MTG			PED SIGNAL			PPB		HPS LUMINAIRE	SPECIAL REQUIREMENTS
	TYPE	SMA	LMA	Ø	TYPE	MTG	Ø	TYPE	MTG	Ø	ARROW		
A	24A-3-129	15'	15'	2	12"	MAS	2	A	SP-1-T			310 W	
				2	12"	SV-1-T							
B	1-A						8	A	TP-1-T	8	→		
										2	→		
C	1-A			1	LA	TV-2-T	2	A	SP-1-T	2	←		
				2	12"								
D	26-4-80	40'	15'	1	LA	MAS						200 W	1. NEW HANGING [CHESTNUT ST] SIGN FROM SIGNAL MAST ARM 2. MODIFIED SV-2-TA
				6	12"	MAS							
				6	12"	SV-2-TA							
				8	12"	SV-2-TA							
E	18-1-113	25'		6	12"	SV-2-TA	8	A	SP-1-T	8	→		NEW HANGING [MAIN ST] SIGN FROM SIGNAL MAST ARM
				8	12"	SV-2-TA							
				8	12"	MAS							

NOTES:

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- 12" = 3-12" CIRCULAR SECTIONS.
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- 1. EXCEPT AS OTHERWISE SHOWN, POLE SCHEDULE EQUIPMENT IS EXISTING.
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- 4. REPLACE PEDESTRIAN PUSH BUTTONS WITH NEW TYPE B PEDESTRIAN PUSH BUTTON AT CORRECT MOUNTING HEIGHT.
- 5. ROUTE SHIELD MOUNT AT 18' (STRAP AND SADDLE BRACKET).



**MODIFY SIGNAL AND LIGHTING
 (CHESTNUT STREET)**

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.



USERNAME => trr1chf
 DGN FILE => 149260u004.dgn

CU 01601

EA 492601

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC ELECTRICAL
 FUNCTIONAL SUPERVISOR: Troy A. Arsenneau
 CALCULATED-DESIGNED BY: [Blank]
 CHECKED BY: [Blank]
 REVISIONS: [Blank]
 REVISOR: [Blank]
 DATE: [Blank]
 REVISIONS: [Blank]
 REVISOR: [Blank]
 DATE: [Blank]

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	59.8/62.0	6	16

Brian T. Finck 1/13/10
REGISTERED ELECTRICAL ENGINEER DATE

2-16-10
PLANS APPROVAL DATE

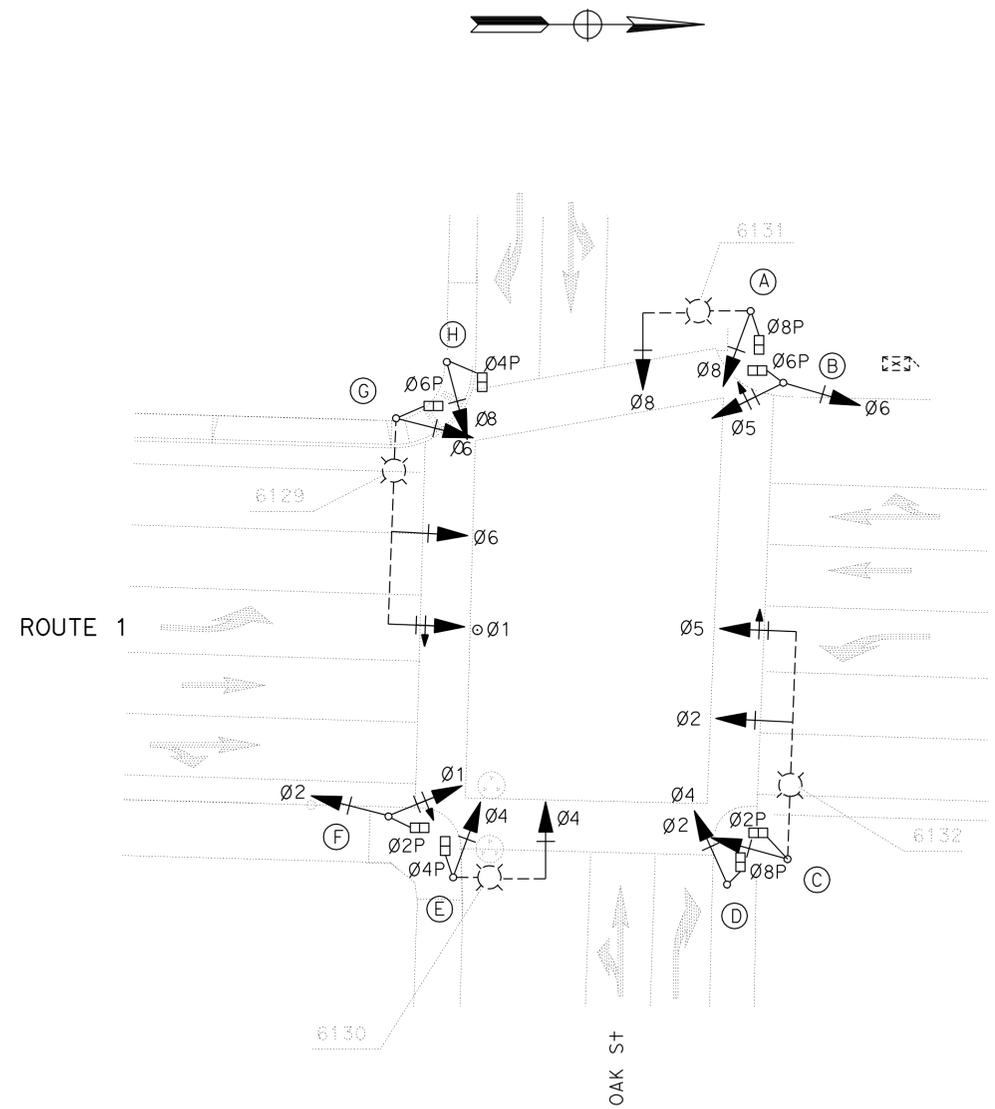
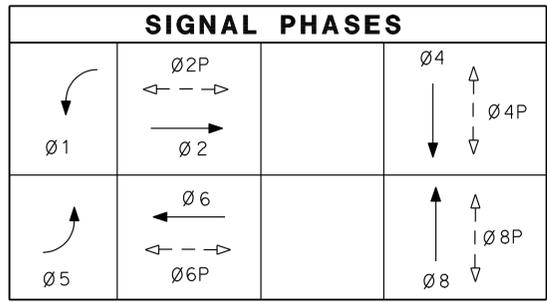
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BRIAN T. FINCK
No. 17756
Exp. 6-30-10
ELECTRICAL
STATE OF CALIFORNIA

No.	STANDARD			VEH SIG MTG			PED SIGNAL			PPB		HPS LUMINAIRE	SPECIAL REQUIREMENTS
	TYPE	SMA	LMA	Ø	TYPE	MTG	Ø	TYPE	MTG	Ø	ARROW		
A	17-2-80	20'	15'	8	12"	MAS	8	A	SP-1-T	6	←	200 W	
				8	12"	SV-1-T							
B	1-A			5	LA	TV-2-T	6	A	SP-1-T	8	→		
				6	12"								
C	26-4-80	40'	15'	5	LA	MAS	2	A	SP-1-T	8	←	200 W	
				2	12"								
				2	12"								SV-1-T
D	1-A			4	12"	TV-1-T	8	A	SP-1-T	2	→		
E	19-2-80	25'	15'	4	12"	MAS	4	A	SP-1-T	2	←	200 W	
				4	12"	SV-1-T							
F	1-A			1	LA	TV-2-T	2	A	SP-1-T	4	→		
				2	12"								
G	26-4-80	35'	15'	1	LA	MAS	6	A	SP-1-T	4	←	200 W	
				6	12"								SV-1-T
H	1-A			8	12"	TV-1-T	4	A	SP-1-T	6	→		

NOTES:

- LA = 3-12" LEFT ARROW SECTIONS.
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- 4. REPLACE PEDESTRIAN PUSH BUTTONS WITH NEW TYPE B PEDESTRIAN PUSH BUTTON AT CORRECT MOUNTING HEIGHT.
- 5. ROUTE SHIELD MOUNT AT 18' (STRAP AND SADDLE BRACKET).



MODIFY SIGNAL AND LIGHTING (OAK STREET)

E-5

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	59.8/62.0	7	16

Brian T. Finck 1/13/10
REGISTERED ELECTRICAL ENGINEER DATE

2-16-10
PLANS APPROVAL DATE

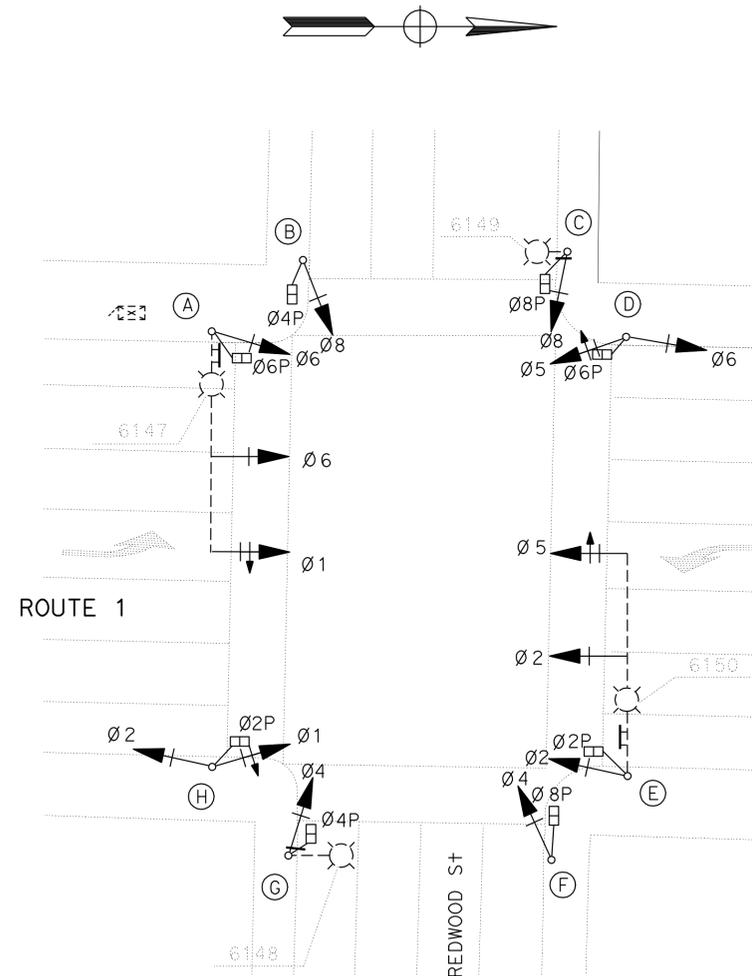
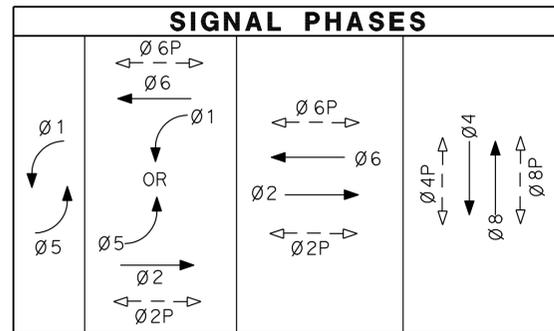
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BRIAN T. FINCK
No. 17756
Exp. 6-30-10
ELECTRICAL
STATE OF CALIFORNIA

POLE AND EQUIPMENT SCHEDULE													
No.	STANDARD			VEH SIG MTG			PED SIGNAL			PPB		HPS LUMINAIRE	SPECIAL REQUIREMENTS
	TYPE	SMA	LMA	Ø	TYPE	MTG	Ø	TYPE	MTG	Ø	ARROW		
A	26-3-129	40'	12'	6	12"	SV-1-T	6	A	SP-1-T	4	←	200 W	NEW HANGING [REDWOOD] SIGN FROM SIGNAL MAST ARM
				6	12"	MAS							
				1	LA	MAS							
B	1-A			8	12"	TV-1-T	4	A	SP-1-T	6	→		
C	15		12'	8	12"	SV-1-T	8	A	SP-1-T	6	←	200 W	ADD NEW ROUTE 1 SHIELD &
D	1-A			5	LA	TV-2-T	6	A	SP-1-T	8	→		
				6	12"								
E	26-3-129	40'	12'	2	12"	SV-1-T	2	A	SP-1-T	8	←	200 W	NEW HANGING [REDWOOD] SIGN FROM SIGNAL MAST ARM
				2	12"	MAS							
				5	LA	MAS							
F	1-A			4	12"	TV-1-T	8	A	SP-1-T	2	→		
G	15		12'	4	12"	SV-1-T	4	A	SP-1-T	2	←	200 W	ADD NEW ROUTE 1 SHIELD &
H	1-A			1	LA	TV-2-T	2	A	SP-1-T	4	→		
				2	12"								

NOTES:

- LA = 3-12" LEFT ARROW SECTIONS.
- 12" = 3-12" CIRCULAR SECTIONS.
- 5(12") = 5-12" SECTIONS.
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 - RS Exist VEHICLE AND PEDESTRIAN SIGNAL HEADS AND MOUNTINGS.
- 4. REPLACE PEDESTRIAN PUSH BUTTONS WITH NEW TYPE B PEDESTRIAN PUSH BUTTON AT CORRECT MOUNTING HEIGHT.
- 5. ROUTE SHIELD MOUNT AT 18' (STRAP AND SADDLE BRACKET).



**MODIFY SIGNAL AND LIGHTING
(REDWOOD STREET)**

E-6

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	59.8/62.0	8	16

Brian T. Finck 1/13/10
 REGISTERED ELECTRICAL ENGINEER DATE

2-16-10
 PLANS APPROVAL DATE

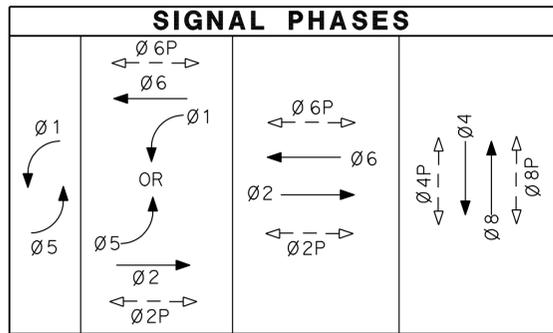
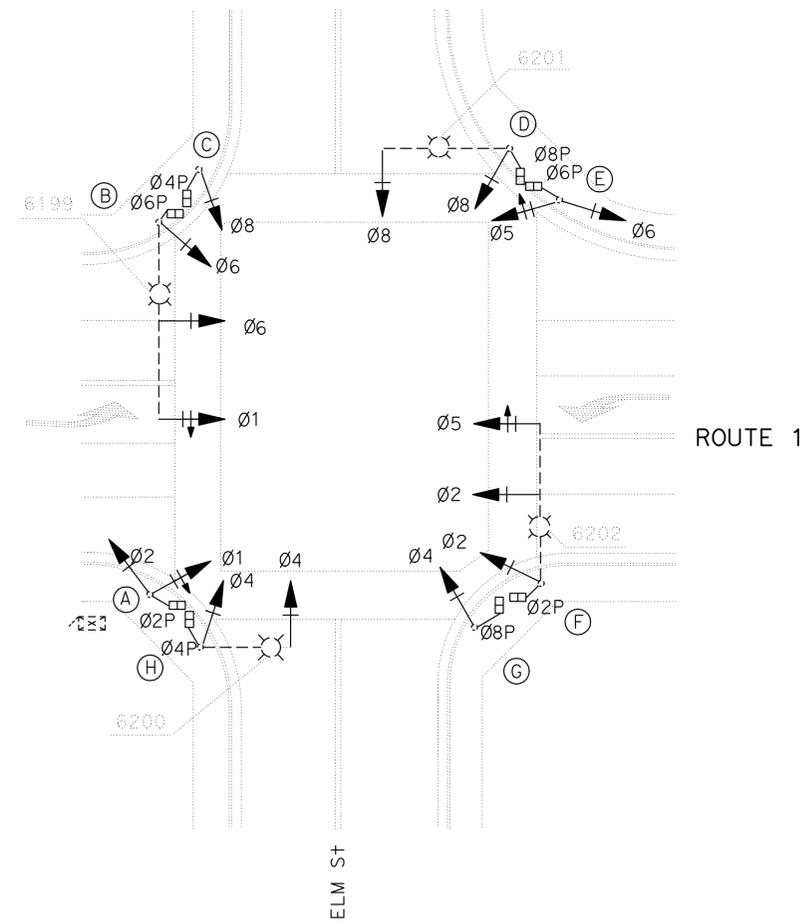
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BRIAN T. FINCK
 No. 17756
 Exp. 6-30-10
 ELECTRICAL
 STATE OF CALIFORNIA

POLE AND EQUIPMENT SCHEDULE												
No.	STANDARD			VEH SIG MTG			PED SIGNAL			PPB	HPS	SPECIAL REQUIREMENTS
	TYPE	SMA	LMA	Ø	TYPE	MTG	Ø	TYPE	MTG	Ø	ARROW	
A	1-A			1	LA	TV-2-T	2	A	SP-1-T	4	→	
				2	12"							
B	26-4-80	40'	10'	1	LA	MAS	6	A	SP-1-T	4	←	200 W
				6	12"	MAS						
C	1-A			8	12"	TV-1-T	4	A	SP-1-T	6	→	
D	19-1-80	26'	18'	8	12"	MAS	8	A	SP-1-T	6	←	200 W
				8	12"	SV-1-T						
E	1-A			5	LA	TV-2-T	6	A	SP-1-T	8	→	
F	24-4-80	35'	10'	5	LA	MAS	2	A	SP-1-T	8	←	200 W
				2	12"	MAS						
G	1-A			4	12"	TV-1-T	8	A	SP-1-T	2	→	
H	17-2-80	20'	10'	4	12"	MAS	4	A	SP-1-T	2	←	200 W
				4	12"	SV-1-T						

NOTES:

- LA = 3-12" LEFT ARROW SECTIONS.
- 12" = 3-12" CIRCULAR SECTIONS.
- 5(12") = 5-12" SECTIONS.
- 1. EXCEPT AS OTHERWISE SHOWN, POLE SCHEDULE EQUIPMENT IS EXISTING.
- 2. THE CONTRACTOR SHALL VERIFY MOUNTINGS IN THE FIELD PRIOR TO ORDERING.
- 3. REPLACE VEHICLE AND PEDESTRIAN SIGNAL HEADS AND MOUNTINGS AS SHOWN.
 RS Exist VEHICLE AND PEDESTRIAN SIGNAL HEADS AND MOUNTINGS.
- 4. REPLACE PEDESTRIAN PUSH BUTTONS WITH NEW TYPE B PEDESTRIAN PUSH BUTTON AT CORRECT MOUNTING HEIGHT.
- 5. ROUTE SHIELD MOUNT AT 18' (STRAP AND SADDLE BRACKET).



**MODIFY SIGNAL AND LIGHTING
 (ELM STREET)**

E-7

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

NO SCALE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	1	59.8/62.0	9	16

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

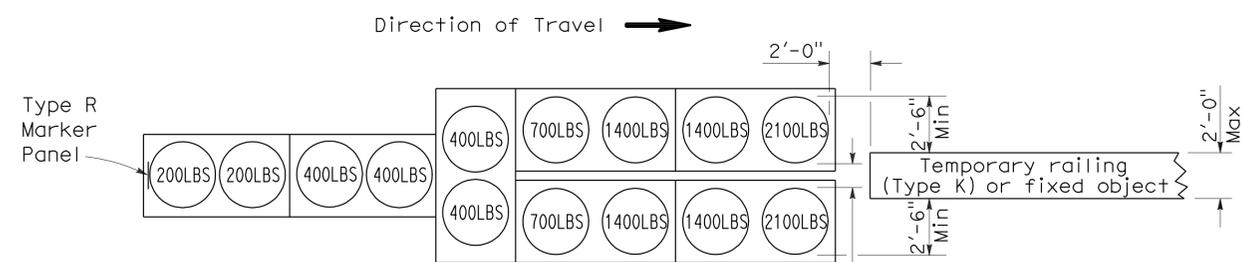
June 6, 2008
PLANS APPROVAL DATE

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

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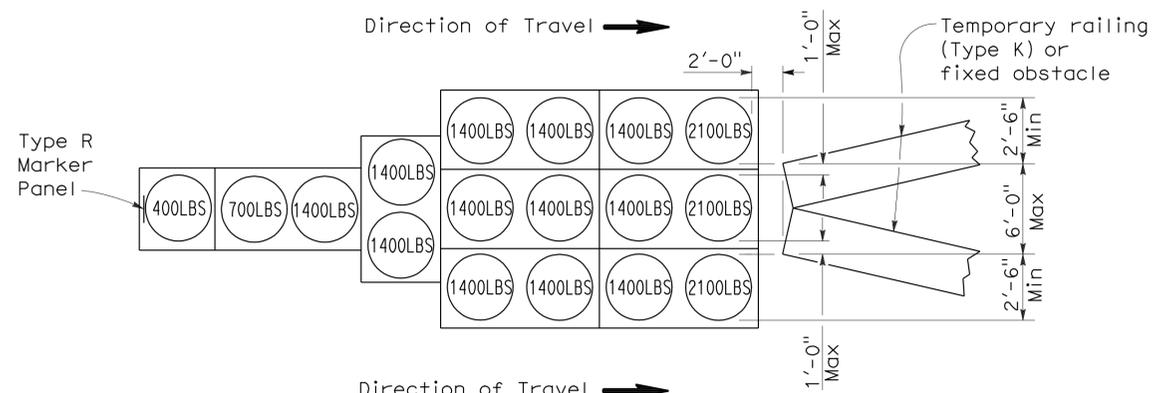
To accompany plans dated 2-16-10

2006 REVISED STANDARD PLAN RSP T1A



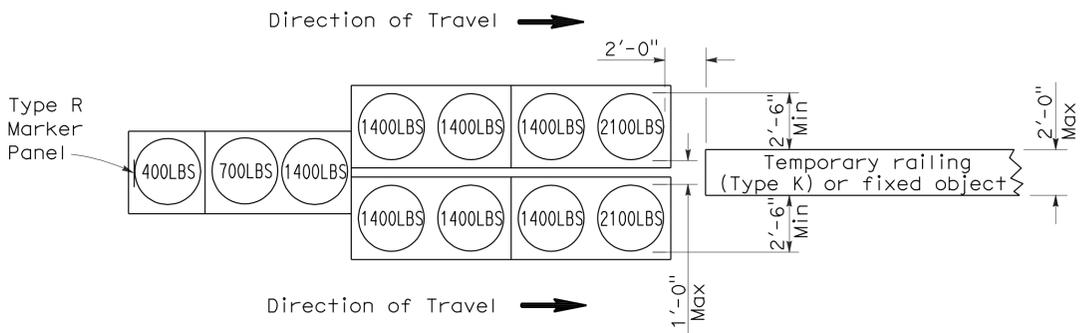
ARRAY 'TU14'

Approach speed 45 mph or more



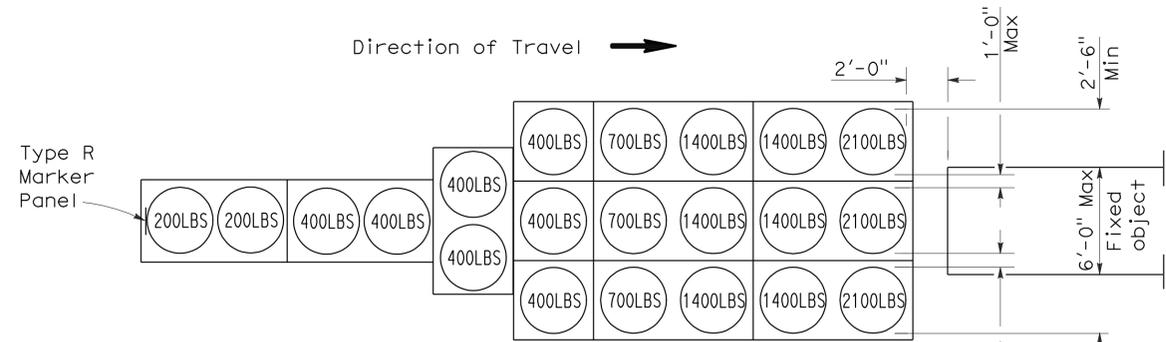
ARRAY 'TU17'

Approach speed less than 45 mph



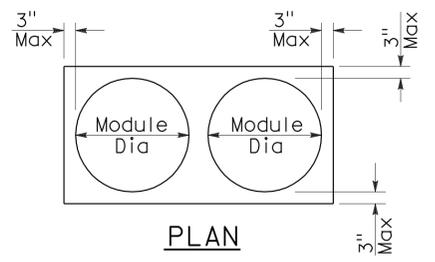
ARRAY 'TU11'

Approach speed less than 45 mph

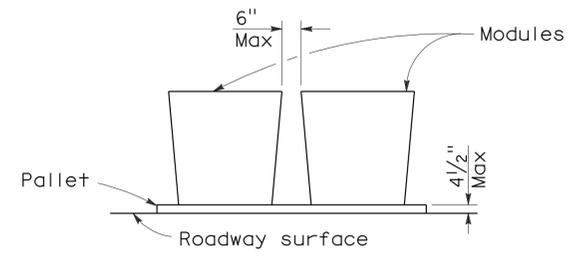


ARRAY 'TU21'

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
01	Men	1	59.8/62.0	10	16

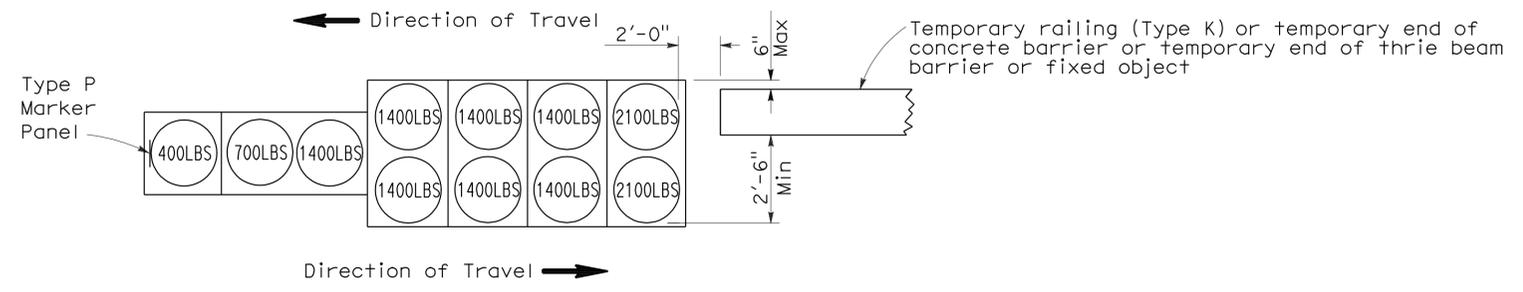
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

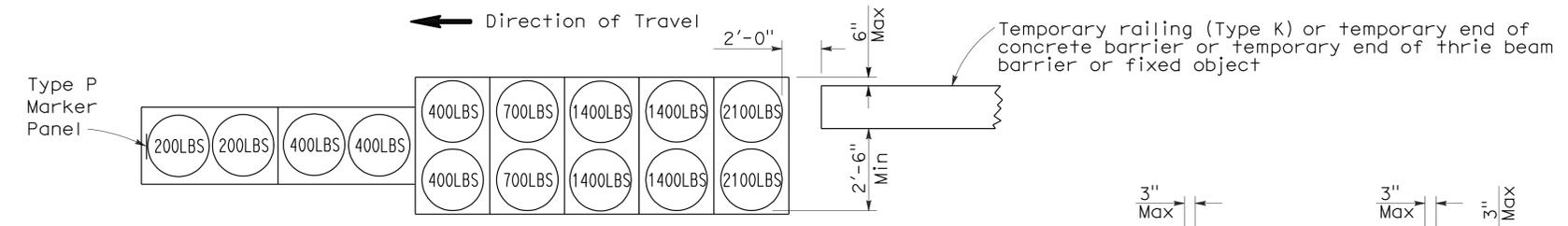
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To accompany plans dated 2-16-10



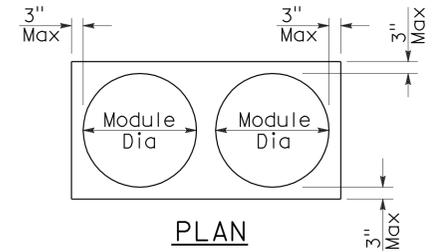
ARRAY 'TB11'

Approach speed less than 45 mph

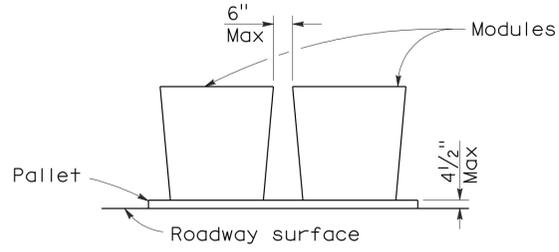


ARRAY 'TB14'

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
01	Men	1	59.8/62.0	11	16

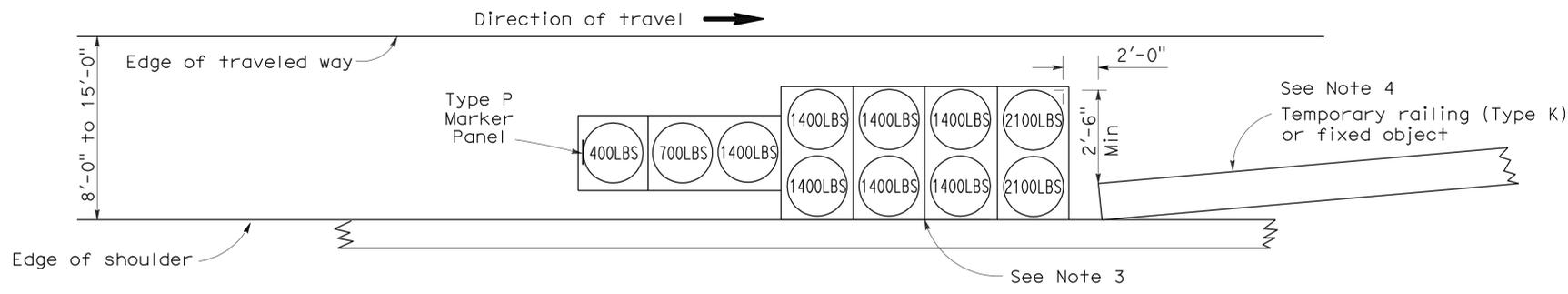
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

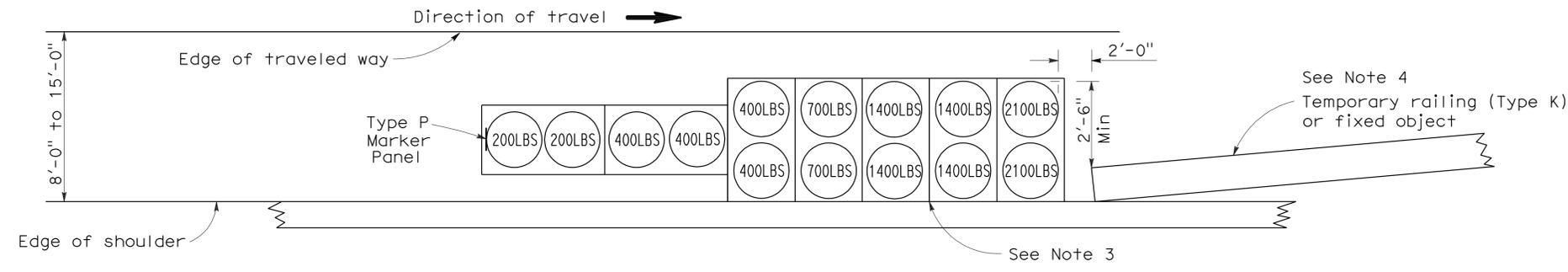
Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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To accompany plans dated 2-16-10



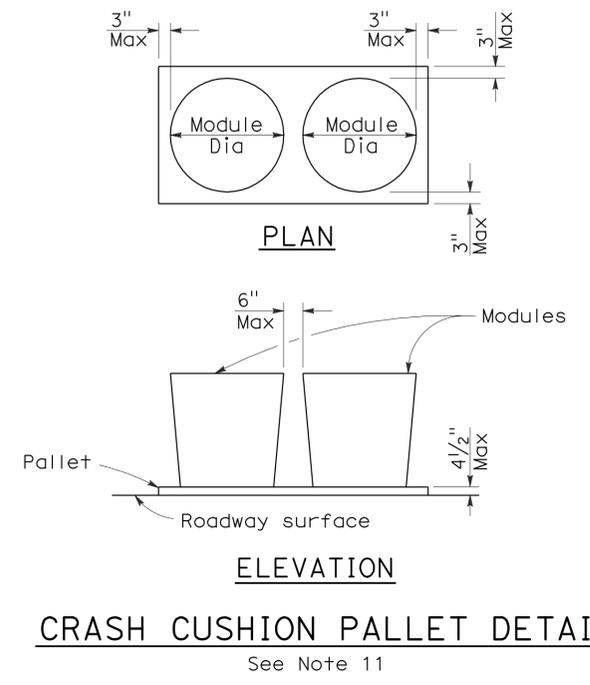
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



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.



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**

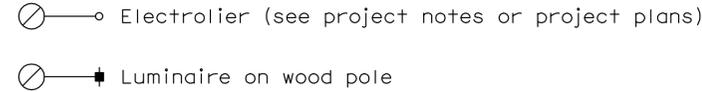
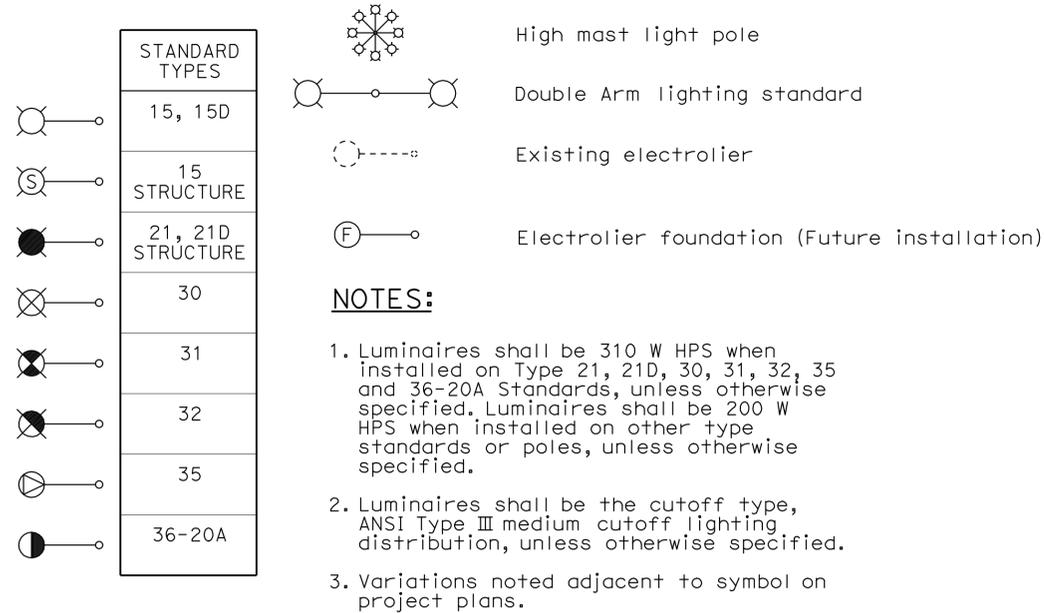
NO SCALE

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

ELECTROLIERS



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
	mv	Mercury vapor lighting fixture
N	N	Neutral (Grounded Conductor)
NC	NC	Normally closed
NO	NO	Normally open
PB	pb	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		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
01	Men	1	59.8/62.0	12	16

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

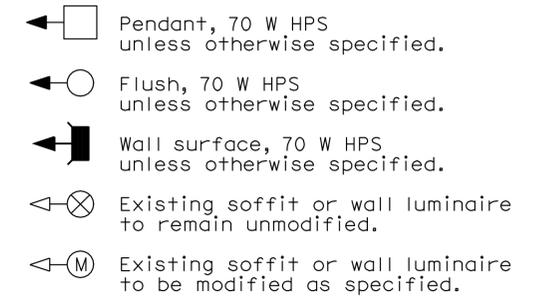
October 5, 2007
PLANS APPROVAL DATE

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

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To accompany plans dated 2-16-10

SOFFIT AND WALL MOUNTED LUMINAIRES



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
01	Men	1	59.8/62.0	13	16

Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 No. E14512
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 ELECTRICAL
 STATE OF CALIFORNIA

October 5, 2007
 PLANS APPROVAL DATE

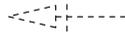
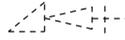
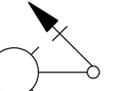
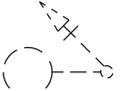
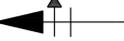
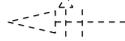
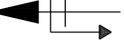
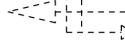
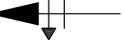
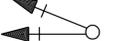
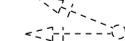
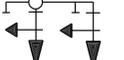
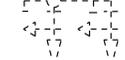
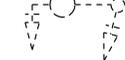
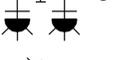
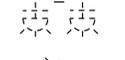
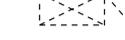
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To accompany plans dated 2-16-10

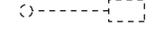
CONDUIT

PROPOSED	EXISTING	
---	---	Lighting Conduit, unless otherwise indicated or noted
---	---	Traffic signal conduit
-C-	-c-	Communication conduit
-T-	-t-	Telephone conduit
-F-	-f-	Fire alarm conduit
-FO-	-fo-	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

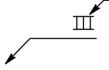
SIGNAL EQUIPMENT Cont

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

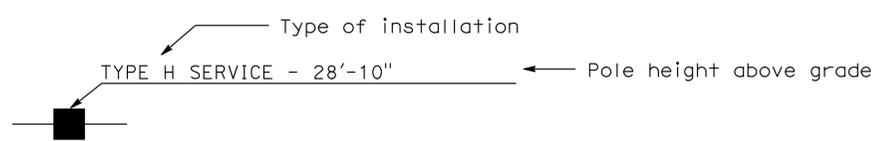
NOTES:

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

SERVICE EQUIPMENT

PROPOSED	EXISTING	
---OH	---oh	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

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

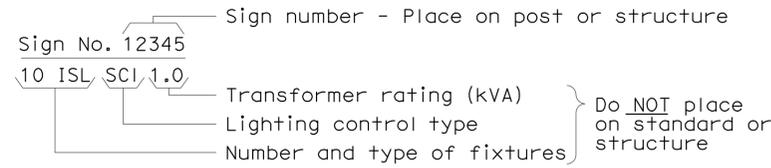
RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

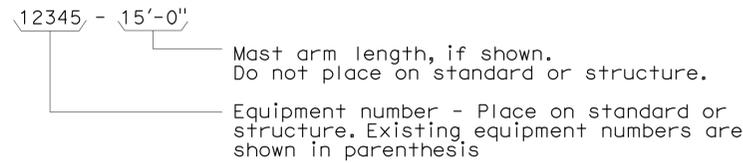
2006 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

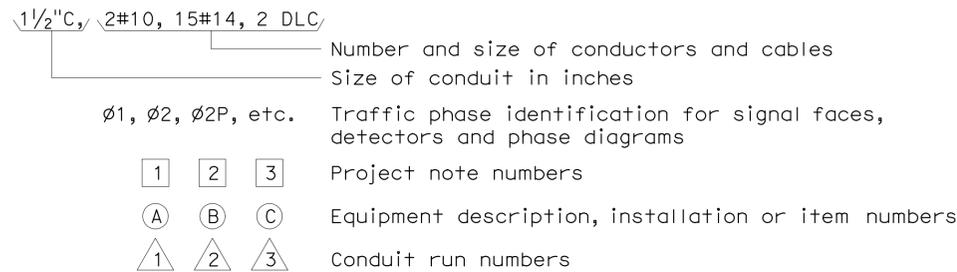
ILLUMINATED SIGN IDENTIFICATION NUMBER:



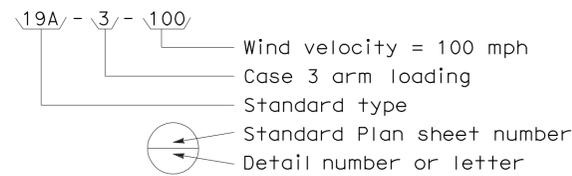
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



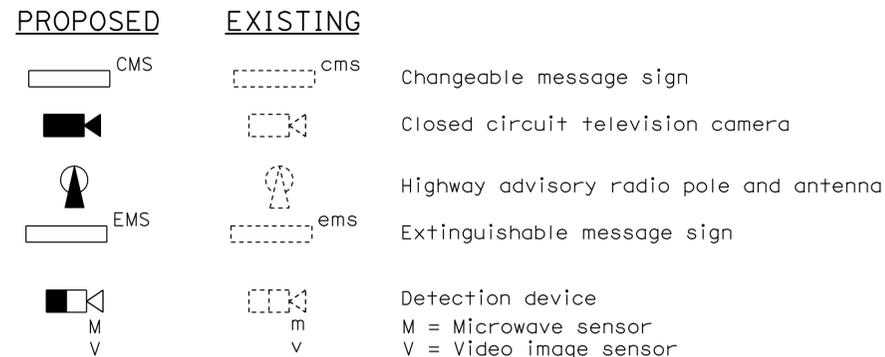
CONDUIT AND CONDUCTOR IDENTIFICATION:



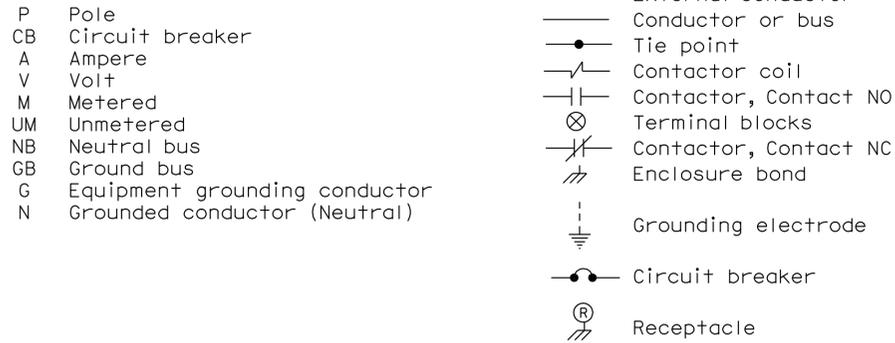
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



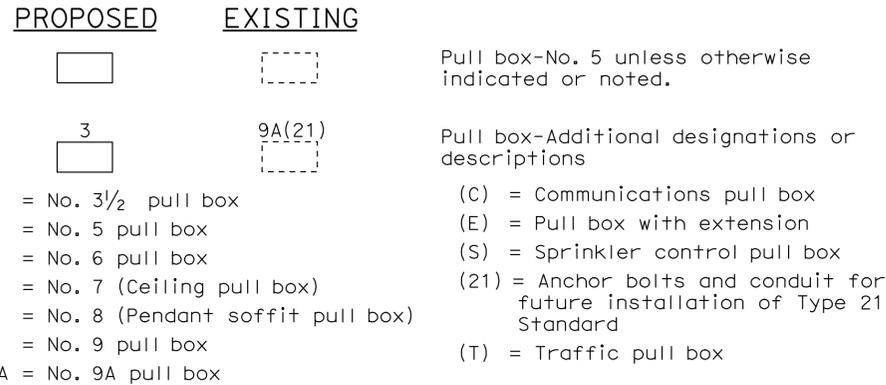
MISCELLANEOUS EQUIPMENT



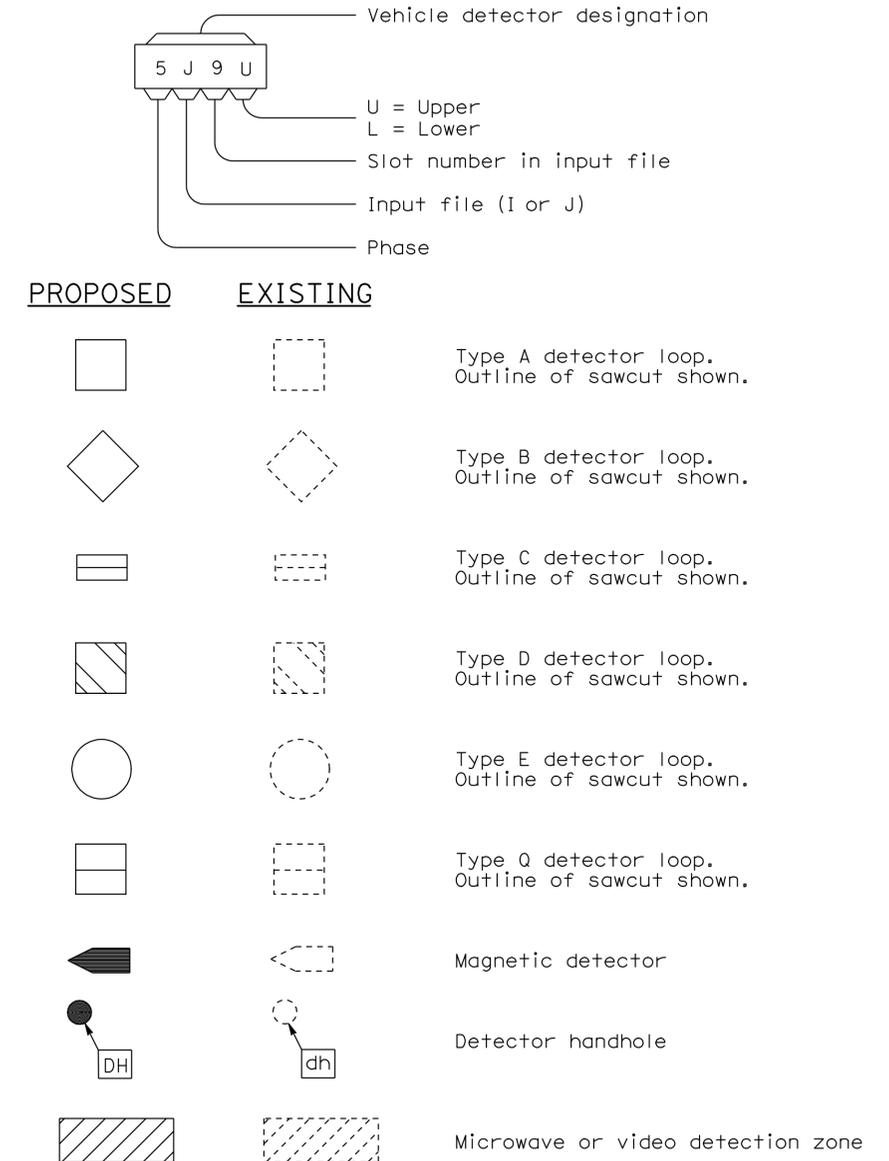
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



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

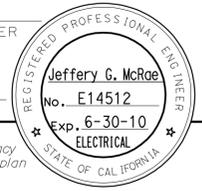
RSP ES-1C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1C
 DATED MAY 1, 2006 - PAGE 402 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1C

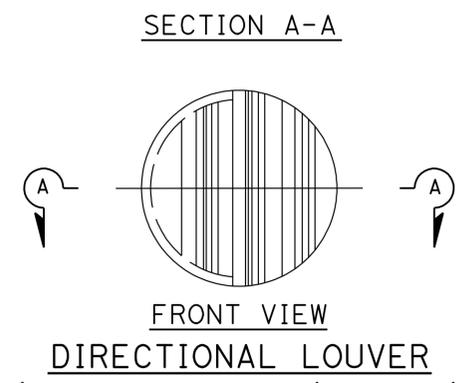
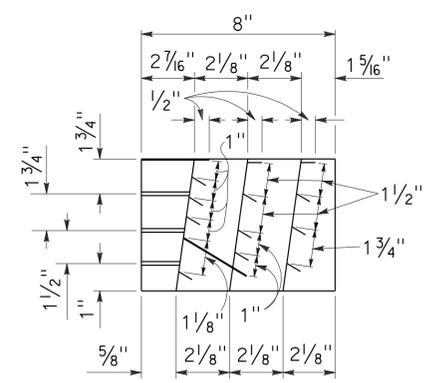
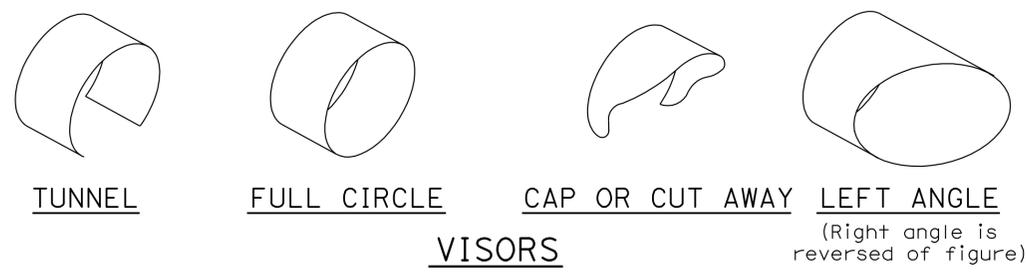
2006 REVISED STANDARD PLAN RSP ES-1C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	1	59.8/62.0	15	16

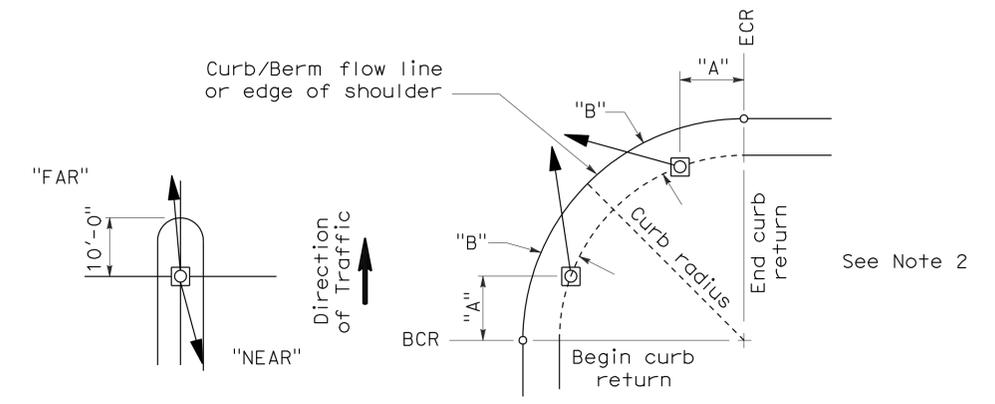
Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 June 6, 2008
 PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



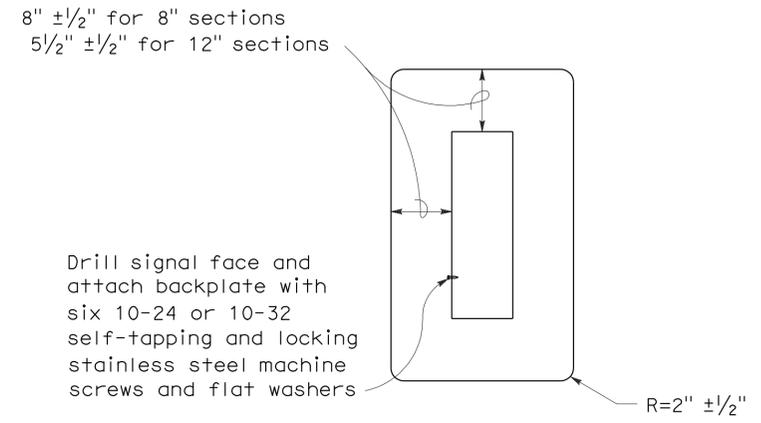
To accompany plans dated 2-16-10



DIRECTIONAL LOUVER
 Directional louvers shall be oriented as directed by the Engineer and secured in place with one plated brass machine screw and nut.

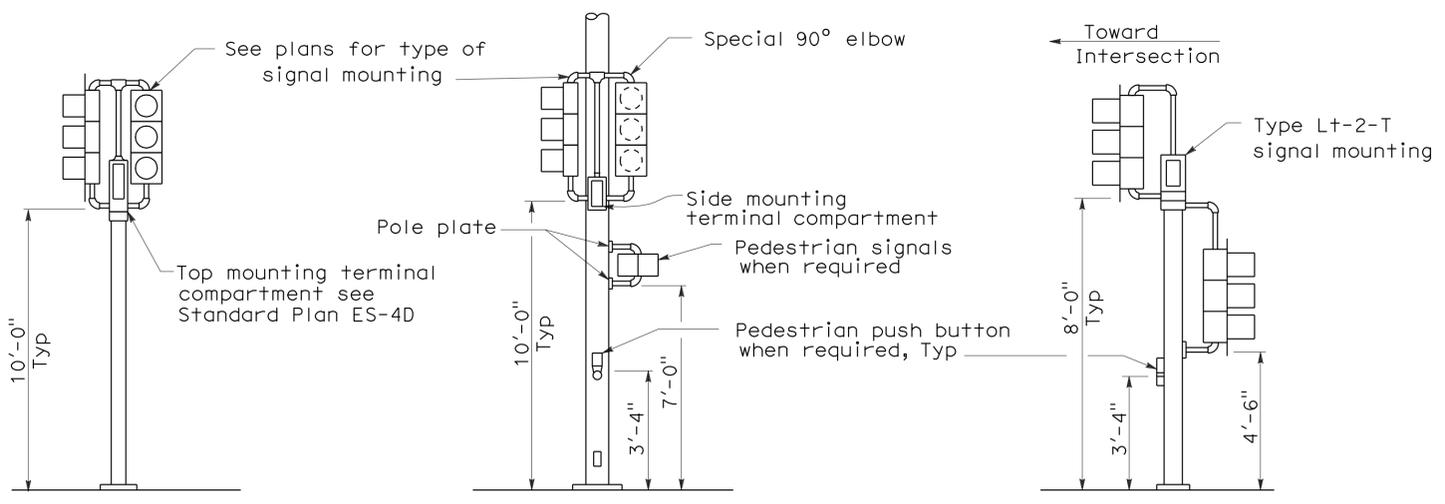


- NOTES:**
1. Typical signal pole placement unless dimensioned on plans.
 2. For "A" and "B" dimensions, see Pole Schedule, or as directed by the Engineer.



8" AND 12" SECTIONS
BACKPLATE
 1/16" minimum thickness
 3001-14 aluminum, or plastic when specified

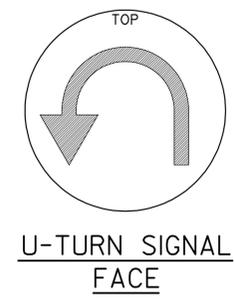
SIGNAL STANDARD PLACEMENT DIMENSIONS AND EQUIPMENT LOCATIONS



TOP MOUNTED SIGNALS (TV)
 Type 1-A, 1-B, 1-C and 1-D standard as indicated on the plans

SIDE MOUNTED SIGNALS (SV AND SP)
 Normally used on standards with luminaire or signal mast arm

LEFT TURN LANE SIGNAL
 Type 1-A, 1-B, 1-C and 1-D standard as indicated on plans



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS (SIGNAL HEADS AND MOUNTINGS)
 NO SCALE

RSP ES-4C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN ES-4C DATED MAY 1, 2006 - PAGE 420 OF THE STANDARD PLANS BOOK DATED MAY 2006.

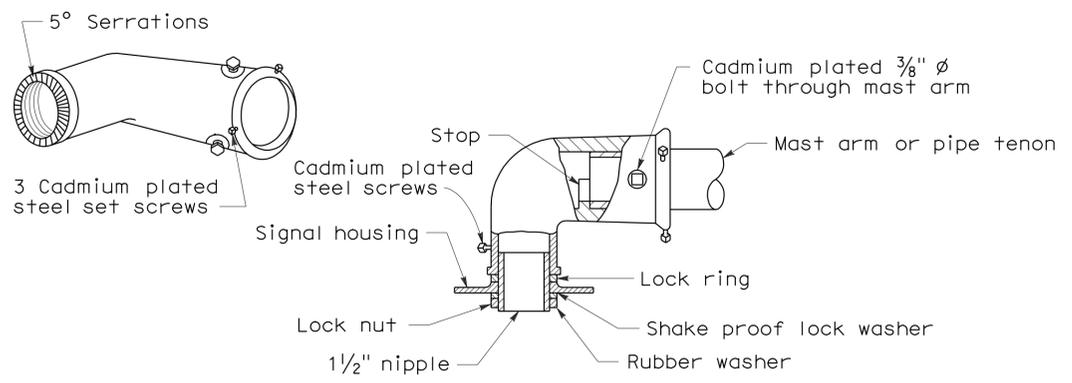
REVISED STANDARD PLAN RSP ES-4C

2006 REVISED STANDARD PLAN RSP ES-4C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	1	59.8/62.0	16	16

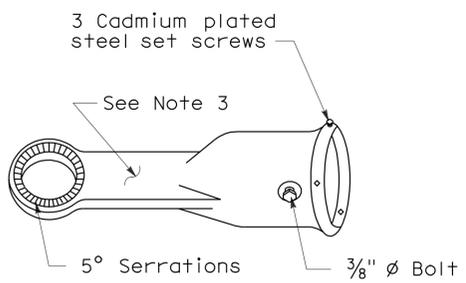
Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 June 6, 2008
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.
 REGISTERED PROFESSIONAL ENGINEER
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-10
 ELECTRICAL
 STATE OF CALIFORNIA

To accompany plans dated 2-16-10



MAST ARM MOUNTING - TYPE "MAT"

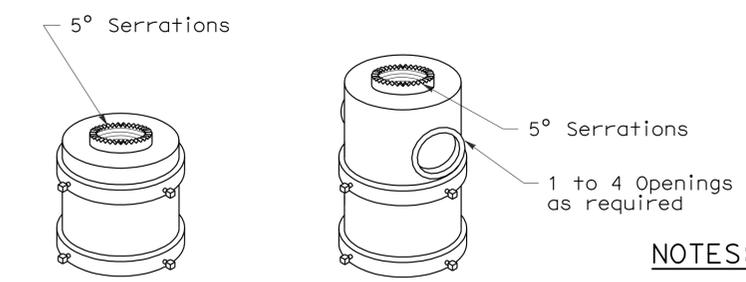
For 2 NPS pipe, see Note 1.



MAST ARM MOUNTING - TYPE "MAS"

For 2 NPS pipe. See Note 1.

SIGNAL SLIP FITTERS



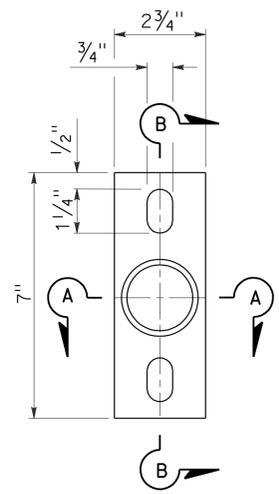
For one mounting For multiple mountings

TOP MOUNTINGS

For 4 NPS pipe, see Note 2.

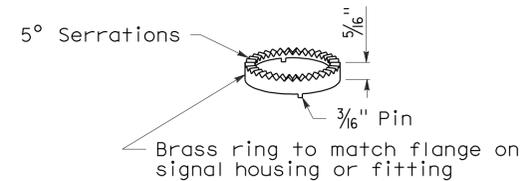
NOTES:

- After mast arm signal has been plumbed and secured, drill 1/16" hole through mast arm tenon in line with slip fitter hole. Place a cadmium plated 3/8" ø galvanized bolt with washer under bolt head through hole and secure with washer, nut, and locknut. Seal openings between mast arm mountings and mast arm with mastic.
- (a) Threaded top mounted slip fitter openings shall be 1/2" NPS.
 (b) Serrations in fittings shall match those on bottom of signal heads or in lock ring.
 (c) Top opening shall be offset when backplate is used.
- Wireway shall have a cross section area of 0.95 square inch minimum. Minimum width of 1/2".



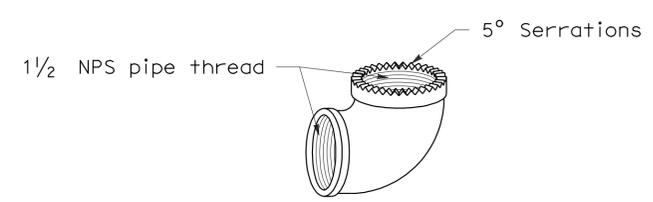
POLE PLATE

For side mountings



LOCK RING

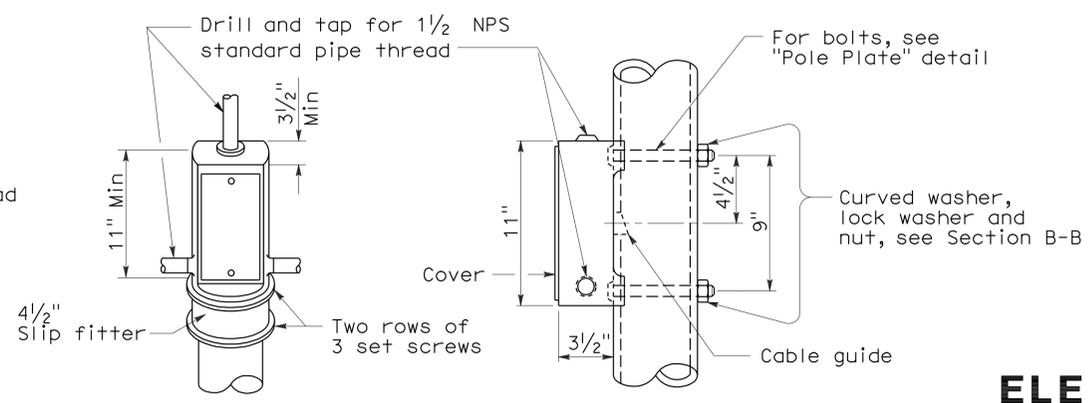
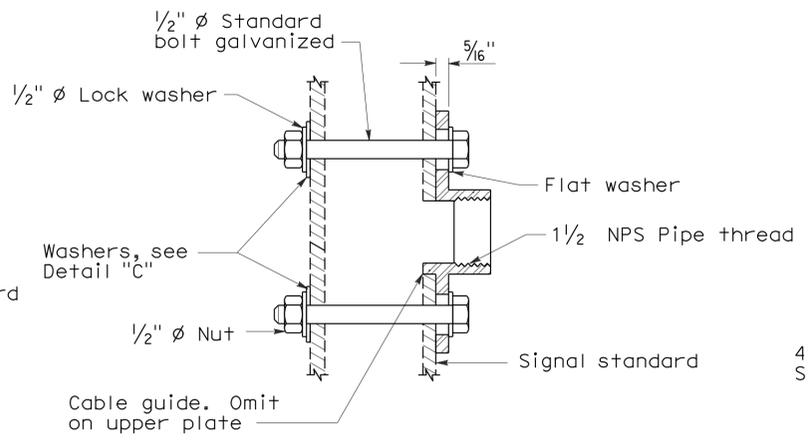
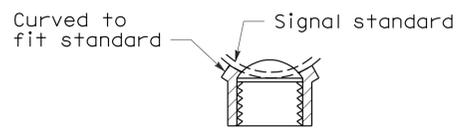
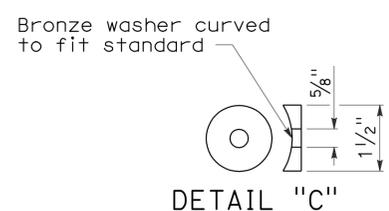
Use where locking ring is not integral with signal housing or fitting.



SPECIAL 90° ELBOW

One for each signal head, except those with special slip fitter mounting

MISCELLANEOUS MOUNTING HARDWARE



TOP MOUNTING

SIDE MOUNTING

TERMINAL COMPARTMENTS

ELECTRICAL SYSTEMS (SIGNAL HEADS AND MOUNTINGS)

NO SCALE

RSP ES-4D DATED June 6, 2008 SUPERSEDES STANDARD PLAN ES-4D DATED MAY 1, 2006 - PAGE 421 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-4D

2006 REVISED STANDARD PLAN RSP ES-4D