

INDEX OF PLANS

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 SAN JOAQUIN COUNTY
NEAR HOLT
AT MIDDLE RIVER BRIDGE

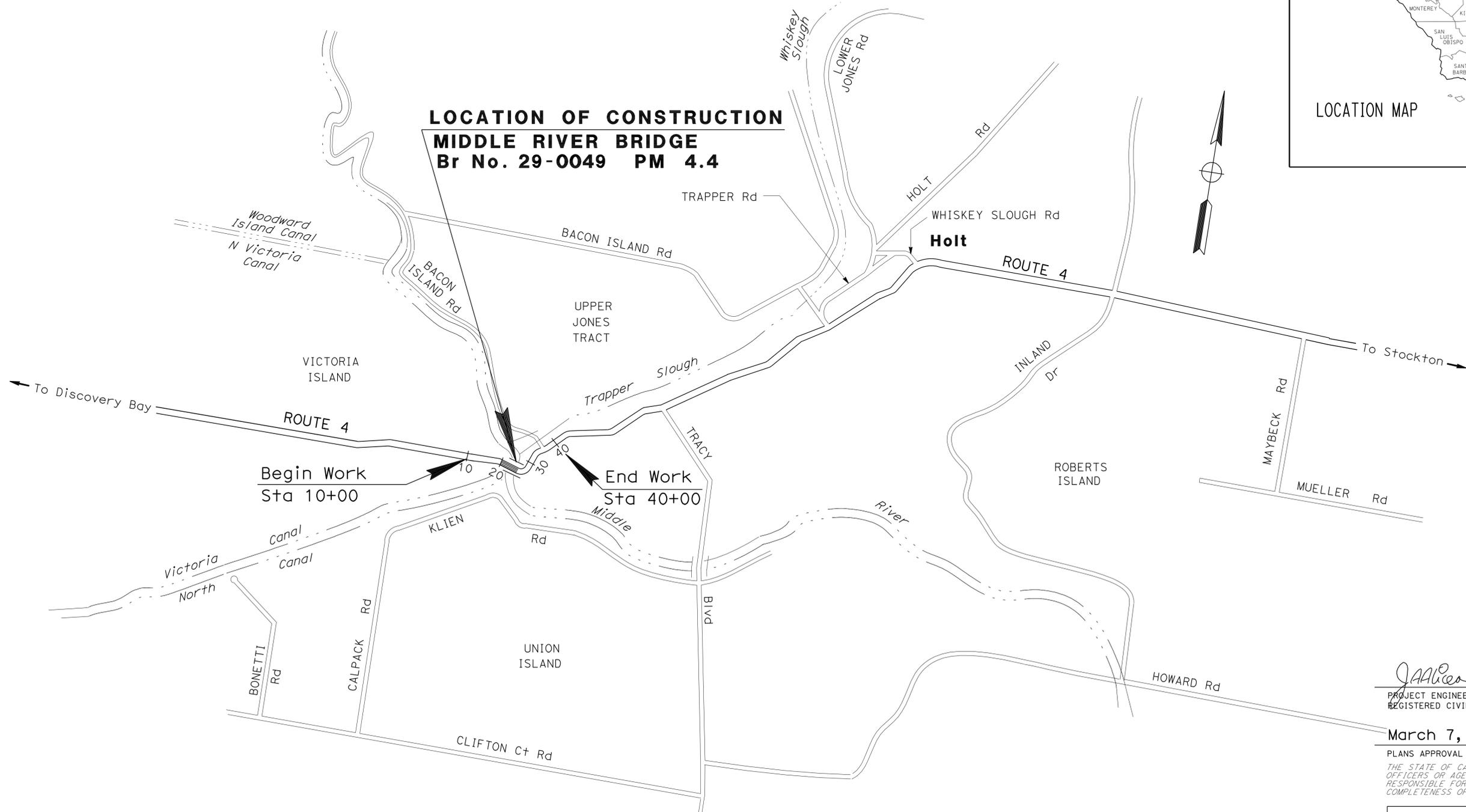
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4	4.4	1	19





LOCATION MAP



PROJECT MANAGER
 ALVIN MANGINDIN
 DESIGN ENGINEER
 ALVIN MANGINDIN

 12/27/10
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
March 7, 2011
 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.	10-0U6004
PROJECT ID	1000000353

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

NO SCALE

DATE PLOTTED => 02-MAR-2011
 TIME PLOTTED => 14:47
 00-00-00

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

JOSE ALICEA II
 RHODEL De CLARO

ALVIN MANGINDIN

JAA
 12/29/10

REVISOR BY
 DATE REVISED

CALCULATED/DESIGNED BY
 CHECKED BY

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
3. ALL UTILITIES ARE EXISTING.

ABBREVIATIONS:

PG&E - PACIFIC GAS AND ELECTRIC COMPANY
 AT&T - AMERICAN TELEPHONE AND TELEGRAPH

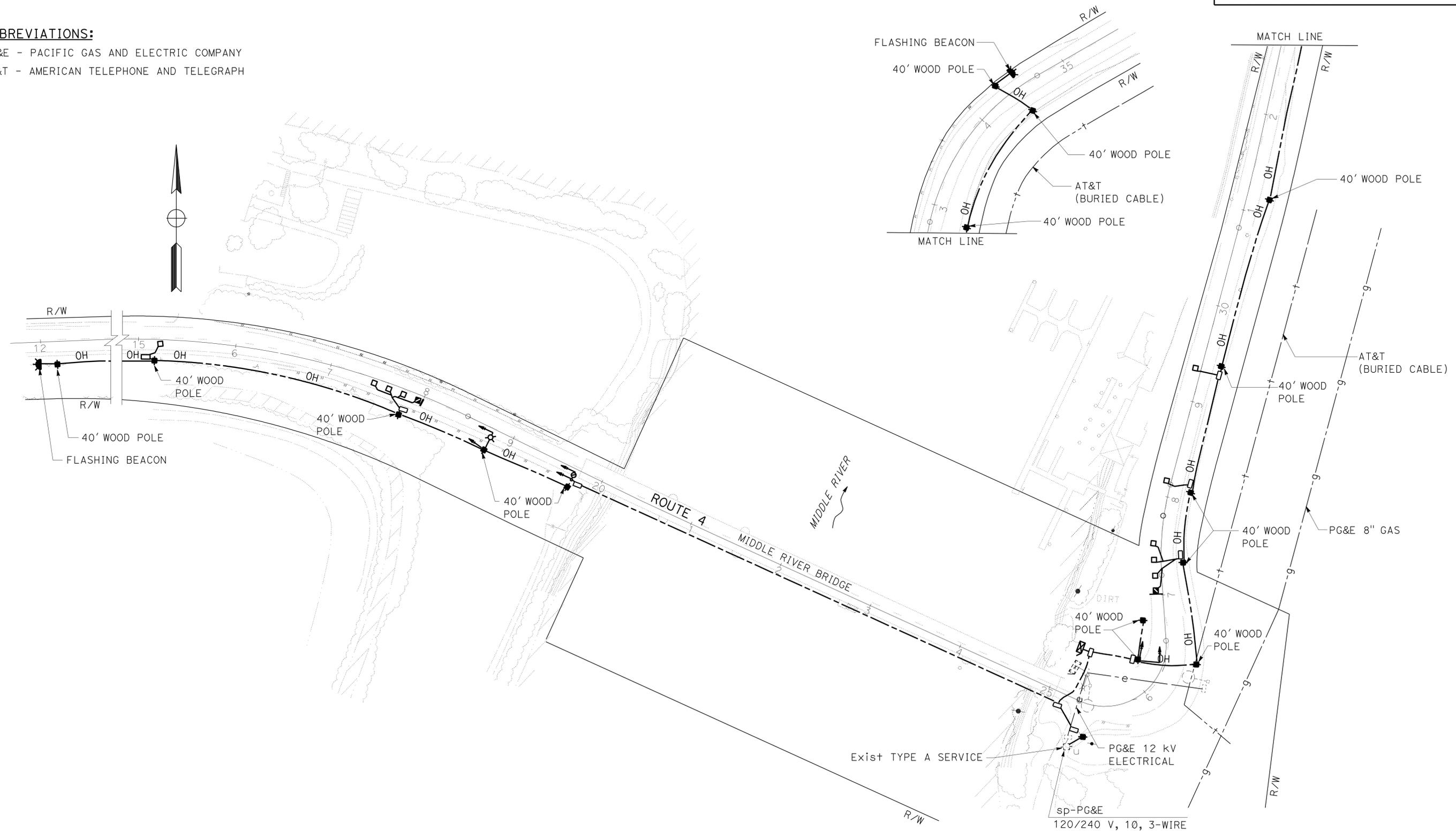
UTILITY OWNERSHIP

- g— —g— - PG&E GAS
- e— —(oh)— - PG&E ELECTRIC
- t--- --t--- - AT&T
- OH ————— OH - CALTRANS TEMPORARY MESSENGER CABLE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4	4.4	2	19

REGISTERED CIVIL ENGINEER
 DATE 12/27/10
 JOSE A. ALICEA II
 No. 64817
 Exp. 06/30/11
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE 3-7-11
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 FOR UTILITY INFORMATION ONLY.

UTILITY PLAN
 NO SCALE
U-1

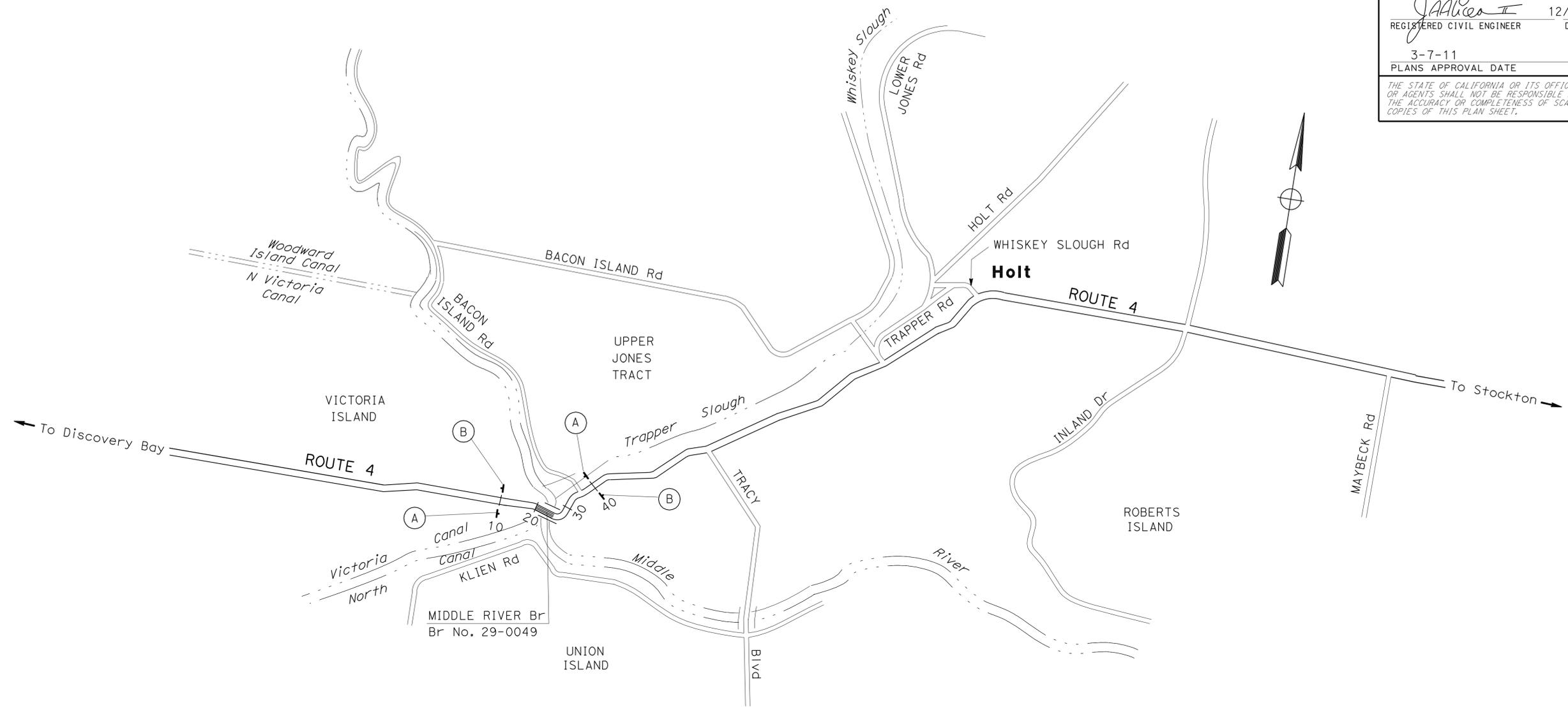
LAST REVISION: DATE PLOTTED => 02-MAR-2011
 07-28-10 TIME PLOTTED => 17:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4	4.4	3	19

REGISTERED CIVIL ENGINEER
 DATE 12/27/10
 3-7-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 JOSE A. ALICEA II
 No. 64817
 Exp. 06/30/11
 CIVIL

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TRAFFIC MANAGEMENT SYSTEM ELEMENT (EXISTING)

PM	SIDE	LOCATION	TYPE	DESCRIPTION
4.4	BOTH	ROUTE 4 AT MIDDLE RIVER BRIDGE	TMS	TRAFFIC MONITORING STATION

NOTE: TRAFFIC MANAGEMENT SYSTEM ELEMENT LOCATIONS ARE APPROXIMATE.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE
(A)	W20-1	36" x 36"	1 - 6" x 4"	2	ROAD WORK AHEAD
(B)	G20-2	36" x 18"	1 - 4" x 4"	2	END ROAD WORK

NOTES: 1. THE EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
 2. SEE TRAFFIC HANDLING PLANS FOR MORE CONSTRUCTION AREA SIGNS.

PAVEMENT DELINEATION ITEMS

LOCATION (PM 4.4)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	4" THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE) YELLOW	REMOVE PAINTED PAVEMENT MARKING	TEMPORARY PAVEMENT MARKING (PAINT)	REMOVE PAVEMENT MARKER	PAVEMENT MARKER (RETROREFLECTIVE) TYPE D
	DETAIL 22	DETAIL 22	LIMIT LINE	LIMIT LINE		DETAIL 22
	LF	FT	SQFT	SQFT	EA	EA
TOTAL	1800	900	27	27	77	77

CONSTRUCTION AREA SIGNS AND PAVEMENT DELINEATION QUANTITIES

NO SCALE

CS-1

THIS PLAN IS ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
 CALCULATED/DESIGNED BY: JOSE ALICEA II
 CHECKED BY: RHODEL De CLARO
 REVISED BY: FL
 DATE REVISED: 12/29/10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FL 12/29/10

REVISED BY DATE REVISED

JOSE ALICEA II RHODEL De CLARO

CALCULATED/DESIGNED BY CHECKED BY

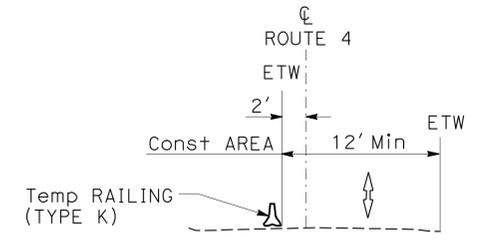
FUNCTIONAL SUPERVISOR ALVIN MANGINDIN

11/08/10 17:24

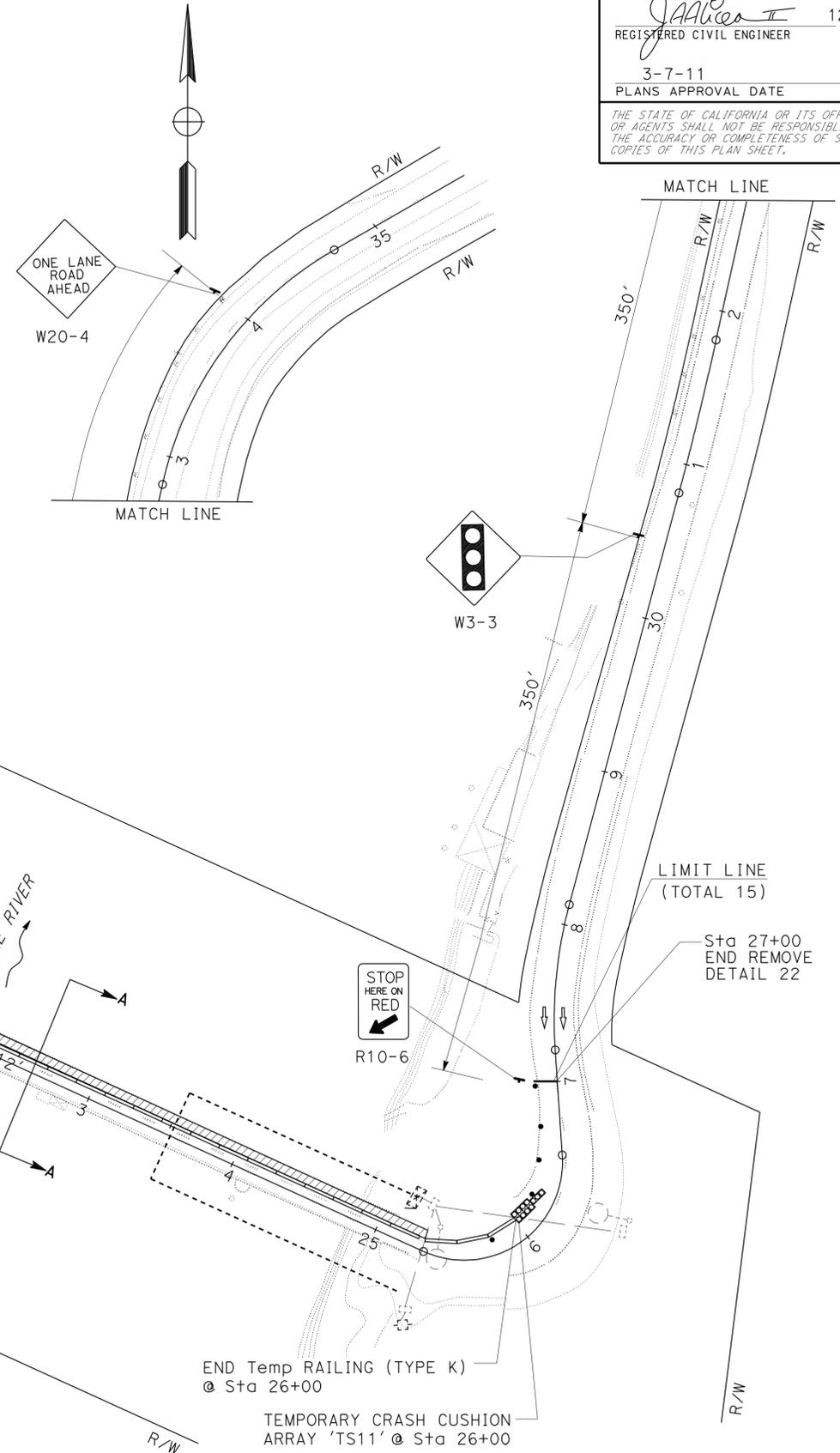
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4	4.4	4	19

12/27/10
 REGISTERED CIVIL ENGINEER DATE
 JOSE ALICEA II
 No. 64817
 Exp. 06/30/11
 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA
 3-7-11
 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.

- LEGEND:**
- CONSTRUCT THIS STAGE
 - TEMPORARY RAILING (TYPE K)
 - TEMPORARY CRASH CUSHION ARRAY 'TS11'
 - DIRECTION OF TRAFFIC
 - CHANNELIZER (SURFACE MOUNTED)
 - ROADSIDE SIGN ONE POST



ONE-WAY TRAFFIC CONTROL
 SECTION A-A
 NO SCALE



TRAFFIC HANDLING PLAN
STAGE 1
 SCALE: 1" = 50' TH-1

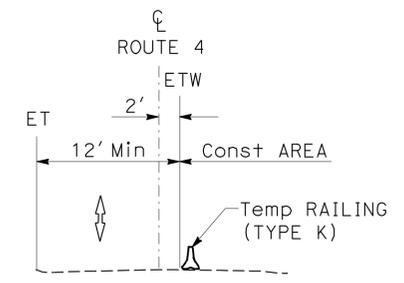
THIS PLAN IS ACCURATE FOR TRAFFIC HANDLING WORK ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4	4.4	5	19

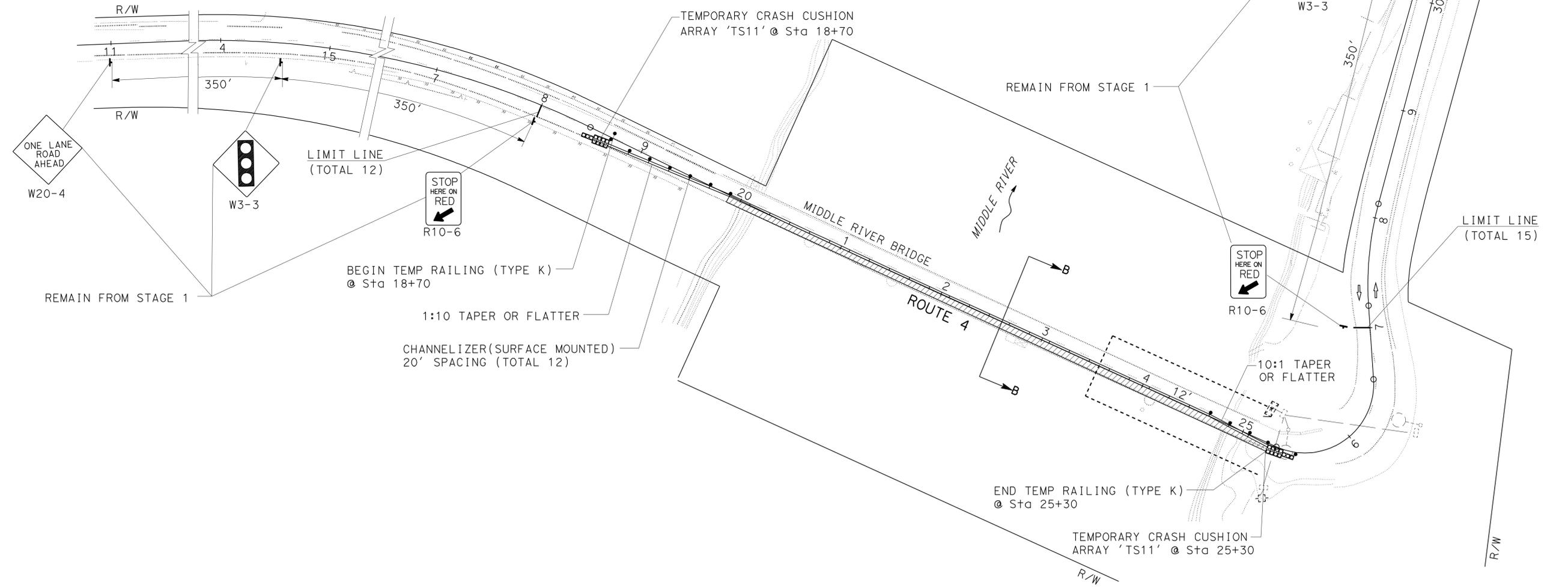
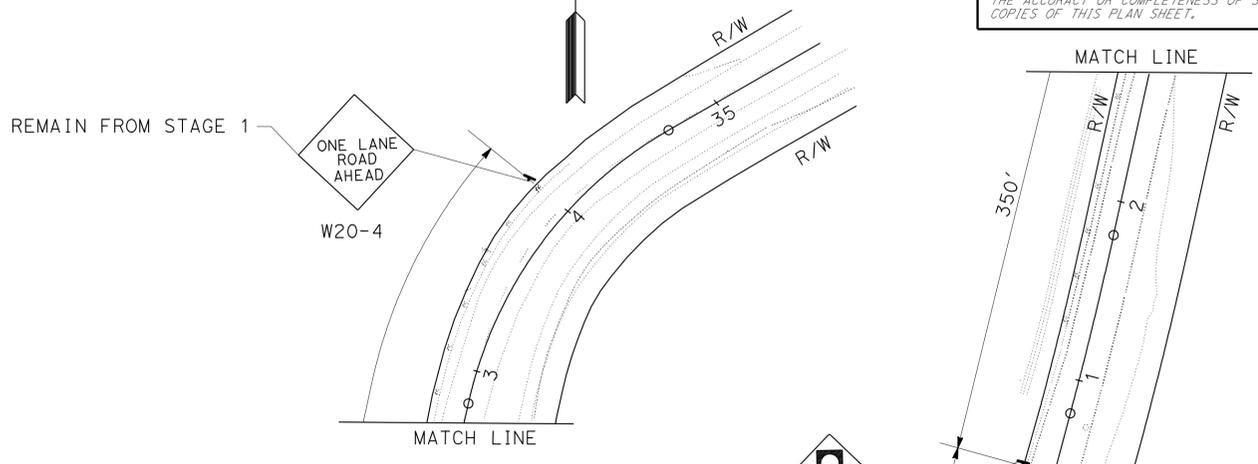
REGISTERED CIVIL ENGINEER
 DATE 12/27/10
 JOSE A. ALICEA II
 No. 64817
 Exp. 06/30/11
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA

3-7-11
 PLANS APPROVAL DATE

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ONE-WAY TRAFFIC CONTROL
 SECTION B-B
 NO SCALE



TRAFFIC HANDLING PLAN
STAGE 2
 SCALE: 1" = 50'
TH-2

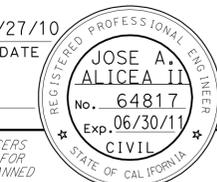
THIS PLAN IS ACCURATE FOR TRAFFIC HANDLING WORK ONLY.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE
 FUNCTIONAL SUPERVISOR ALVIN MANGINDIN
 CALCULATED/DESIGNED BY CHECKED BY
 JOSE ALICEA II RHODEL De CLARO
 REVISED BY DATE REVISED
 FL 11/08/10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4	4.4	6	19

 12/27/10
 REGISTERED CIVIL ENGINEER DATE
 3-7-11
 PLANS APPROVAL DATE



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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS (TRAFFIC HANDLING)

SHEET No.	SIGN CODE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS
TH-1	W20-4	36" x 36"	1 - 4" x 6"	2
	W3-3	36" x 36"	1 - 4" x 6"	2
	R10-6	24" x 36"	1 - 4" x 4"	2

NOTES: 1. THE EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
 2. CONSTRUCTION AREA SIGNS SHEET FOR CONSTRUCTION AREA SIGNS.

CHANNELIZER (SURFACE MOUNTED)

SHEET No.	CHANNELIZER (SURFACE MOUNTED)
	EA
TH-1	12
TH-2	12
TOTAL	24

TEMPORARY RAILING (TYPE K)

SHEET No.	LOCATION	Temp RAILING (TYPE K)
		LF
TH-1	Sta 19+40 To Sta 26+00	660
TH-2	Sta 18+70 To Sta 25+30	660
TOTAL		1320

NOTE: THE EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

TEMPORARY CRASH CUSHION MODULE

SHEET No.	TEMPORARY CRASH CUSHION MODULE
	EA
TH-1	22
TH-2	22
TOTAL	44

**TRAFFIC HANDLING QUANTITIES
 THQ-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4	4.4	7	19

<i>Jaspal Singh</i>	12/28/10
REGISTERED ELECTRICAL ENGINEER	DATE
3-7-11	
PLANS APPROVAL DATE	

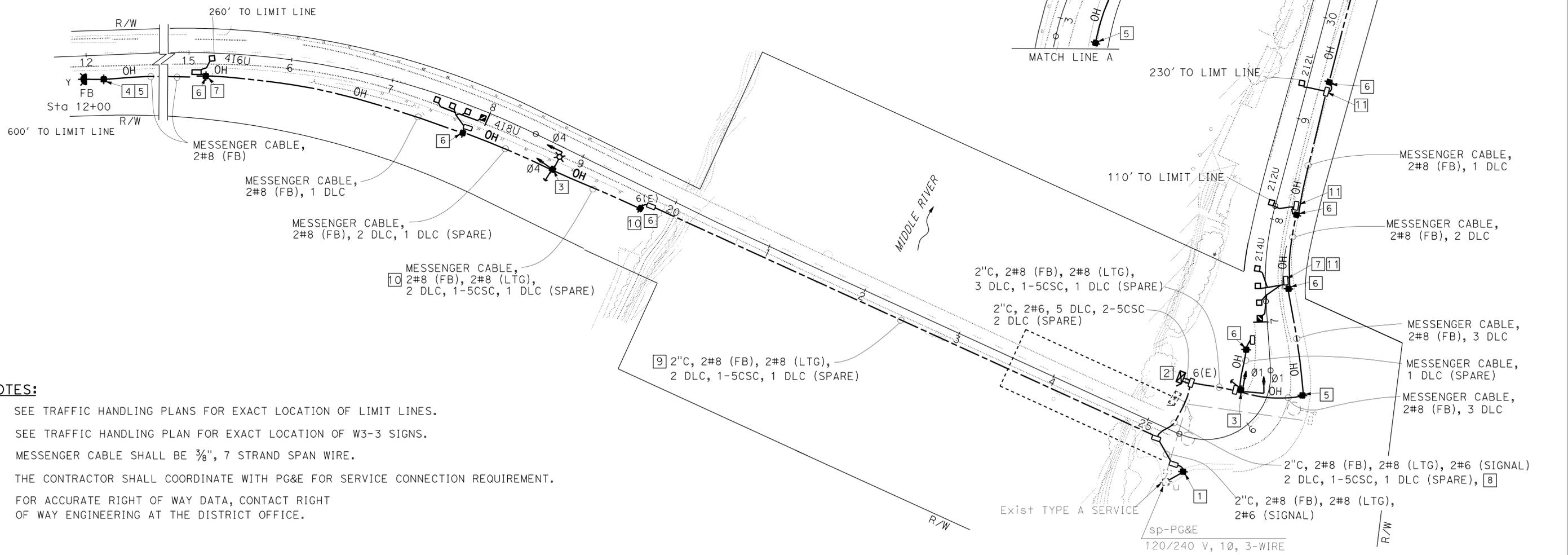
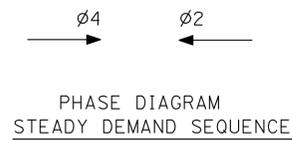
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND: (FOR SHEETS E-1 THROUGH E-2)

1 120/240 V, 10, 3-WIRE, TYPE A SERVICE WITH THE FOLLOWING CIRCUIT BREAKERS: SEE DETAIL E ON SHEET E-2.

AMPERES	VOLTS	POLES	NAME PLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN BREAKER	YES	—
50	120	1	TRAFFIC SIGNAL	YES	—
15	120	1	FLASHING BEACON	YES	—
15	240	2	HIGHWAY LIGHTING	YES	IV

- 2 STATE-FURNISHED MODEL 2070 CONTROLLER ASSEMBLY. INSTALL BBS. CONTROLLER ASSEMBLY SHALL REMAIN IN PLACE FOR FUTURE USE.
- 3 WOOD POLE WITH SIGNAL AND LIGHTING EQUIPMENT, SEE DETAIL A ON SHEET E-2. LUMINAIRE SHALL BE 200 W HPS, 240 V.
- 4 WOOD POLE WITH TEMPORARY FLASHING BEACON INSTALLATION. SEE DETAIL B ON SHEET E-2.
- 5 WOOD POLE AT INTERVAL OF 200' OR AS SHOWN ON THE PLANS TO CARRY MESSENGER CABLE, SIGNAL CABLES AND CONDUCTORS. SEE DETAIL C ON SHEET E-2.
- 6 WOOD POLE WITH RISER. SEE DETAIL D ON SHEET E-2.
- 7 LOOP DETECTORS SHALL HAVE FIVE TURNS.
- 8 SIGNAL CABLES AND CONDUCTORS TERMINATING IN CONTROLLER CABINET SHALL REMAIN IN PLACE FOR FUTURE USE.
- 9 CONDUIT SHALL BE INSTALLED IN THE EXIST CABLE TRAY, LOCATED ON THE OUTSIDE OF THE BRIDGE RAILING. CONDUIT, SIGNAL CABLE AND CONDUCTORS SHALL REMAIN IN PLACE FOR FUTURE USE.
- 10 SIGNAL CABLES AND CONDUCTORS SHALL BE COILED BACK INTO THE PULL BOX FOR FUTURE USE.
- 11 LOOP DETECTOR AND PULL BOX SHALL REMAIN IN PLACE FOR FUTURE USE. COIL LOOP CONDUCTORS IN THE PULL BOX.



NOTES:

- 1. SEE TRAFFIC HANDLING PLANS FOR EXACT LOCATION OF LIMIT LINES.
- 2. SEE TRAFFIC HANDLING PLAN FOR EXACT LOCATION OF W3-3 SIGNS.
- 3. MESSENGER CABLE SHALL BE 3/8", 7 STRAND SPAN WIRE.
- 4. THE CONTRACTOR SHALL COORDINATE WITH PG&E FOR SERVICE CONNECTION REQUIREMENT.
- 5. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

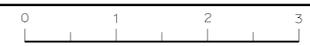
TEMPORARY SIGNAL SYSTEM
SCALE: 1" = 50'
E-1

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN
 FUNCTIONAL SUPERVISOR: ALT BAKHDOUD
 CALCULATED/DESIGNED BY: JASPAL SINGH
 CHECKED BY: FRED IYSERE
 REVISED BY: JS
 DATE REVISED: 12/30/10

USERNAME => rrmikes1
DGN FILE => a0u600ua001.dgn

RELATIVE BORDER SCALE IS IN INCHES



UNIT 1515

PROJECT NUMBER & PHASE

1000000353

DATE PLOTTED => 03-MAR-2011
 TIME PLOTTED => 05:52
 LAST REVISION:

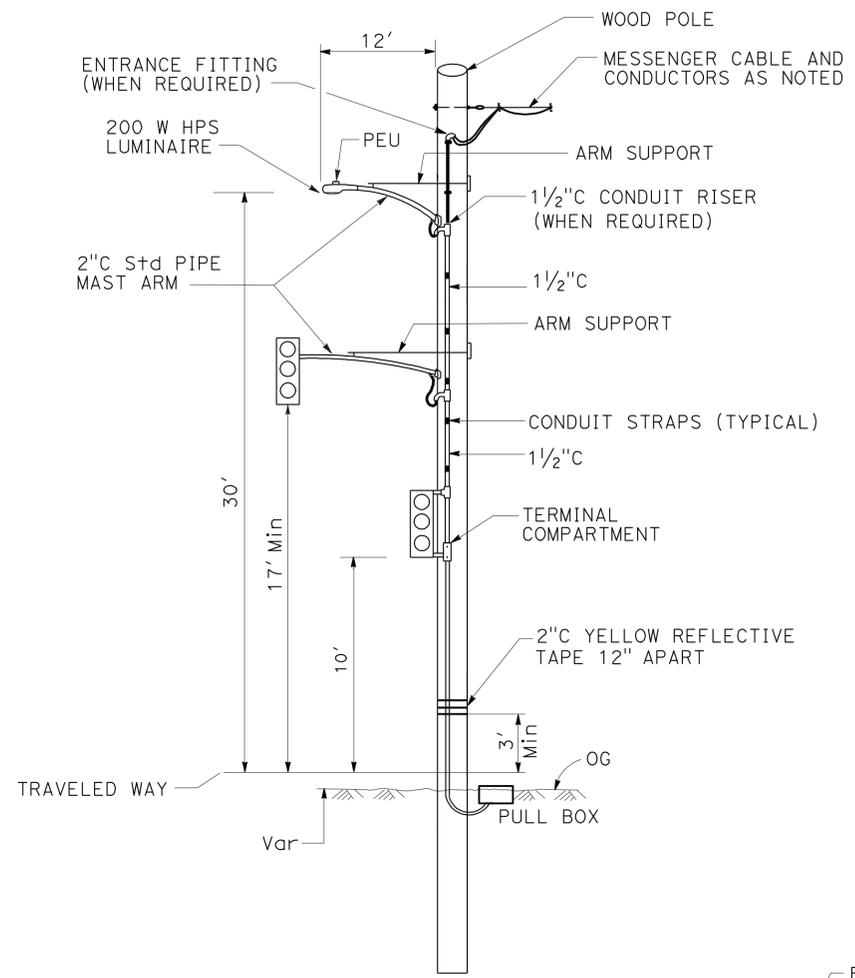
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4	4.4	8	19

REGISTERED ELECTRICAL ENGINEER	DATE
<i>Jaspal Singh</i>	12/28/10
PLANS APPROVAL DATE	
3-7-11	

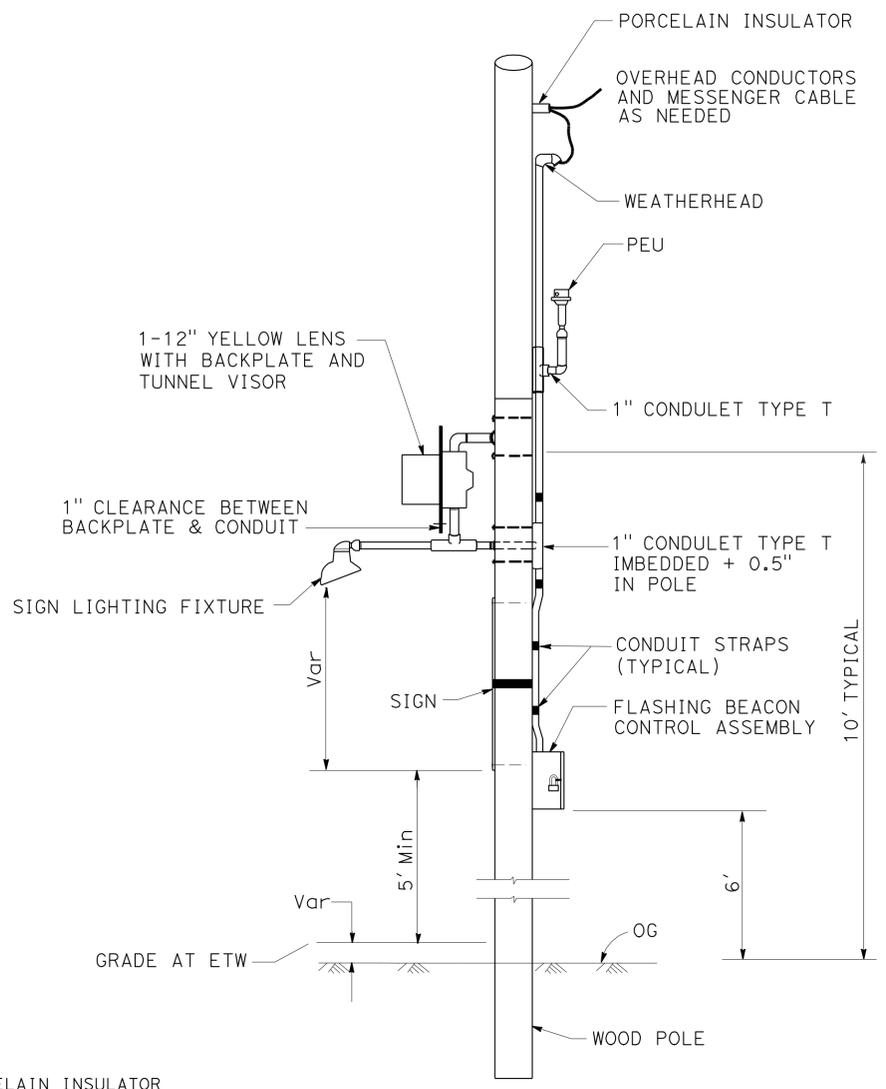
REGISTERED PROFESSIONAL ENGINEER
<i>Jaspal Singh</i>
No. 16657
Exp. 6/30/12
ELECTRICAL

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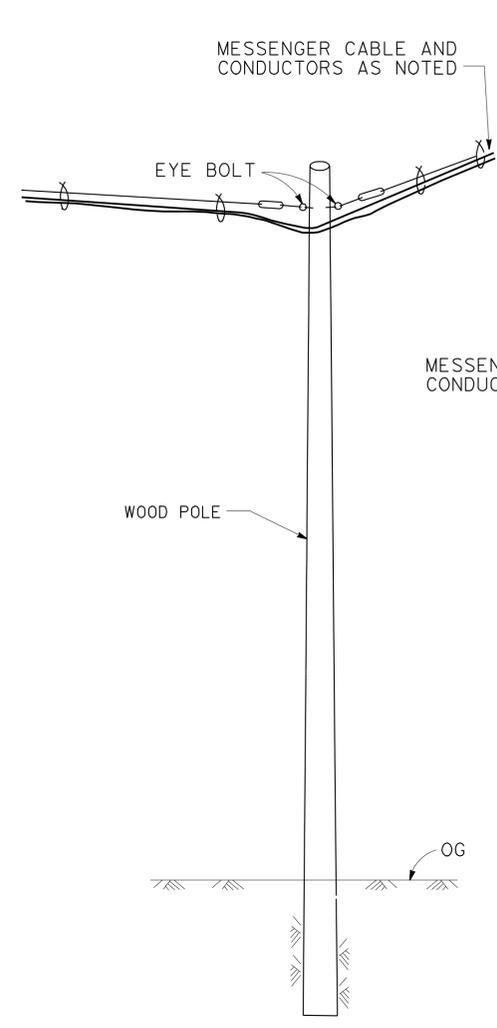
NOTES:
 1. FOR NOTES AND LEGEND, SEE SHEET E-1.
 2. FOR POLE DETAILS, SEE SHEETS SES-1 AND SES-2.



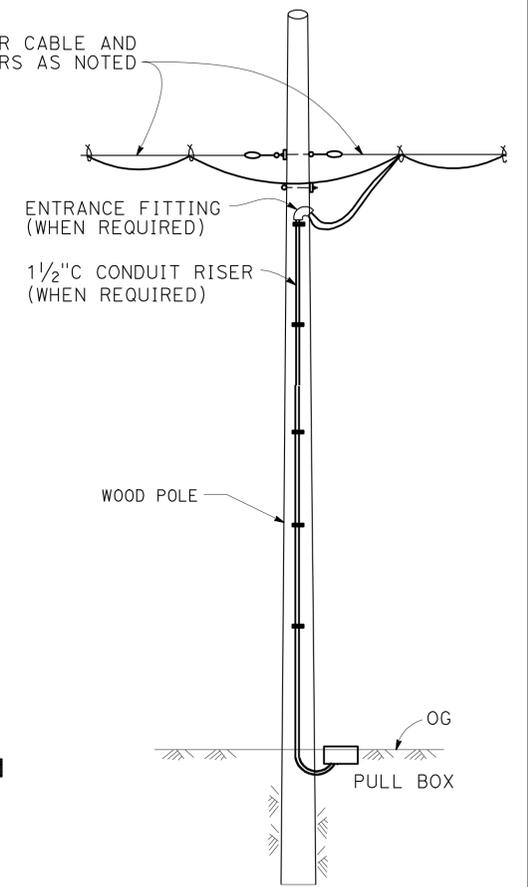
TEMPORARY SIGNAL AND LIGHTING INSTALLATION
 DETAIL A



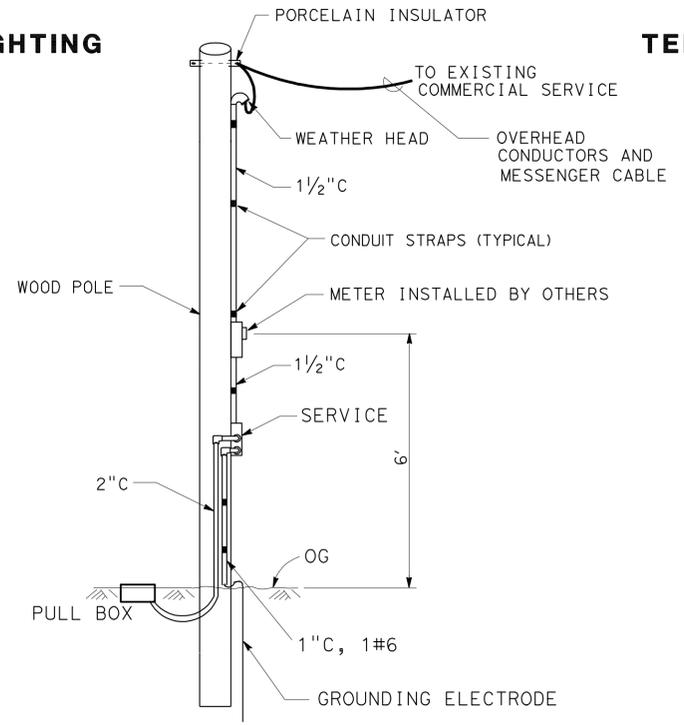
TEMPORARY FLASHING BEACON INSTALLATION
 DETAIL B



TEMPORARY WOOD POLE INSTALLATION
 DETAIL C



TEMPORARY SIGNAL INSTALLATION
 DETAIL D

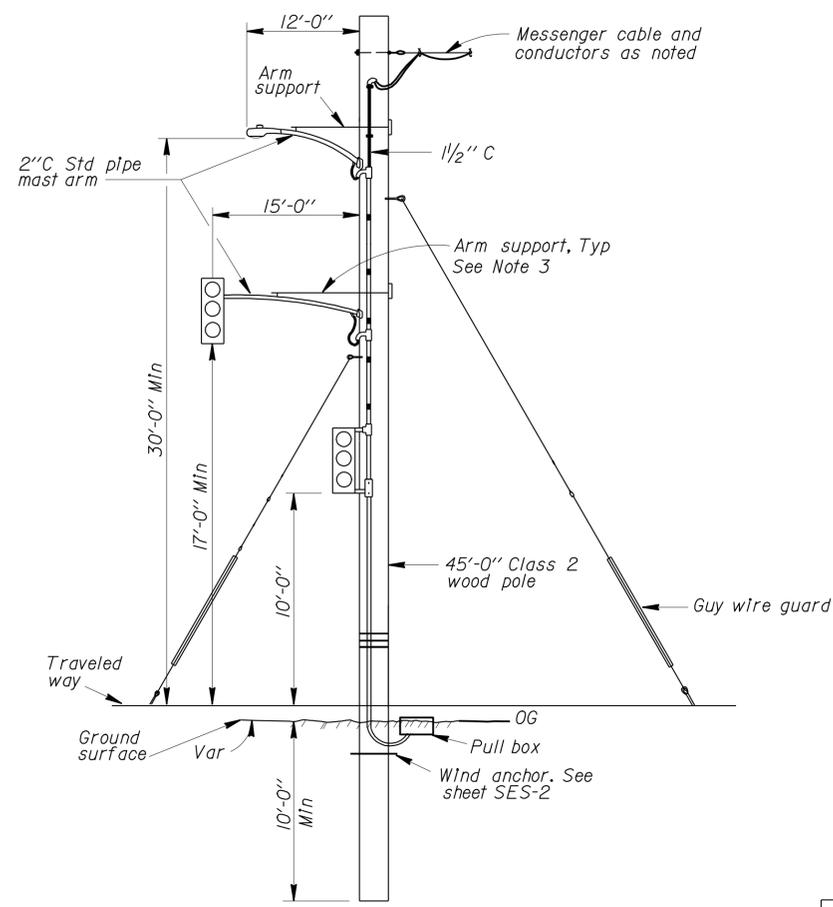


TEMPORARY SERVICE INSTALLATION
 DETAIL E

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN

TEMPORARY SIGNAL SYSTEM
 NO SCALE
E-2

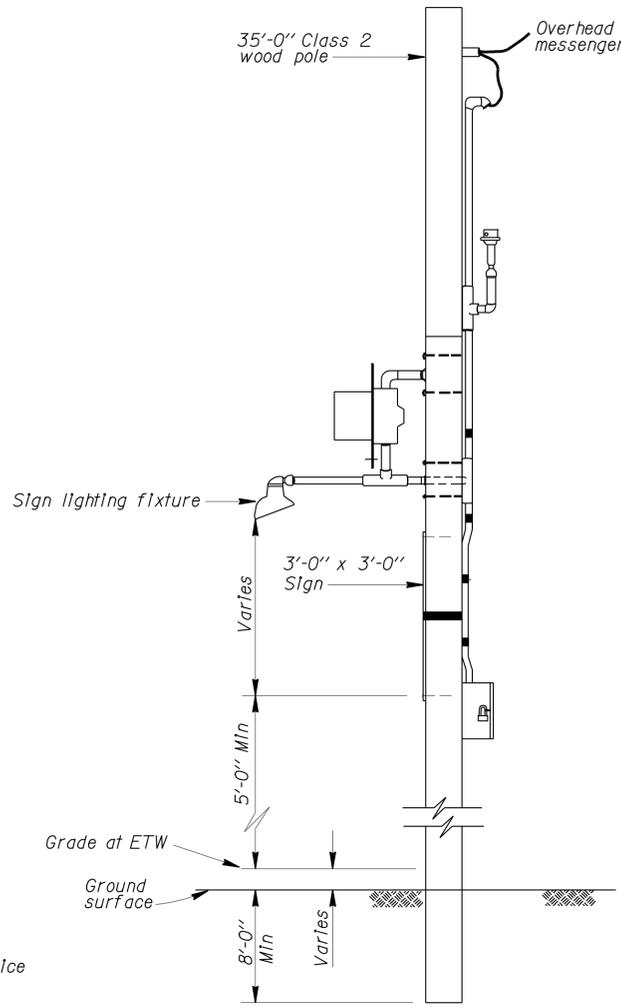
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
10	SJ	4	4.4	9	19
REGISTERED CIVIL ENGINEER			DATE	3/1/11	
PLANS APPROVAL DATE			3-7-11		
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TEMPORARY SIGNAL AND LIGHTING INSTALLATION

DETAIL A

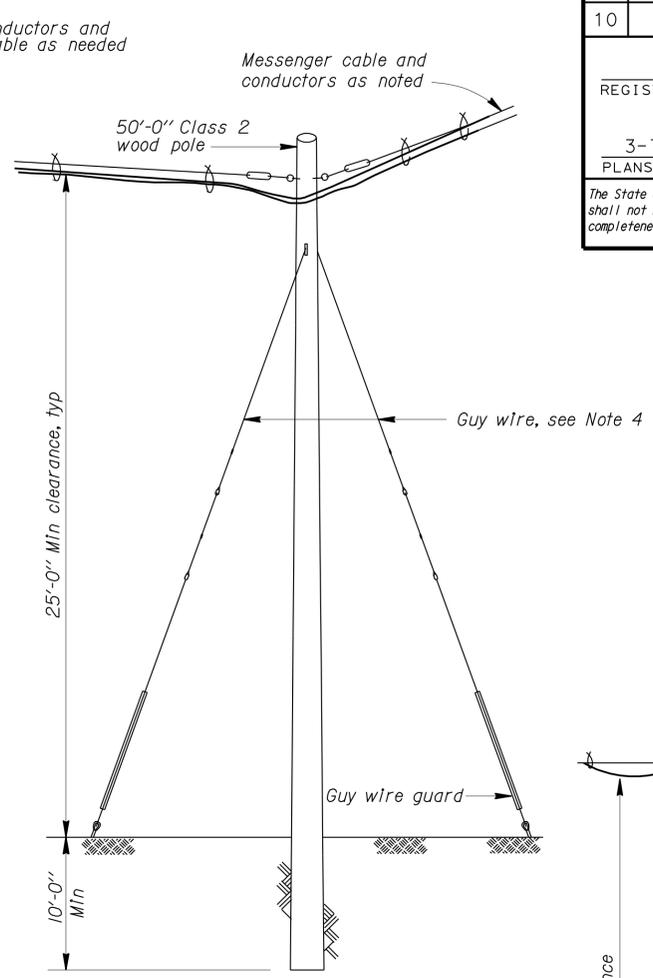
See "DETAIL A", sheet E-2



TEMPORARY FLASHING BEACON INSTALLATION

DETAIL B

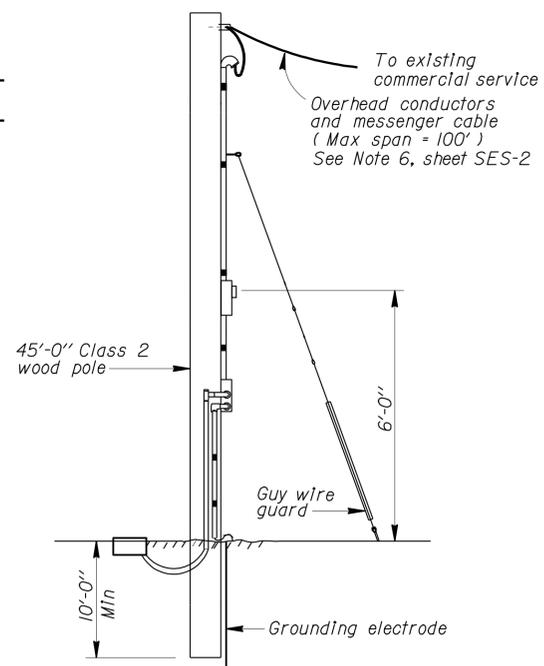
See "DETAIL B", sheet E-2



TEMPORARY WOOD POLE INSTALLATION

DETAIL C

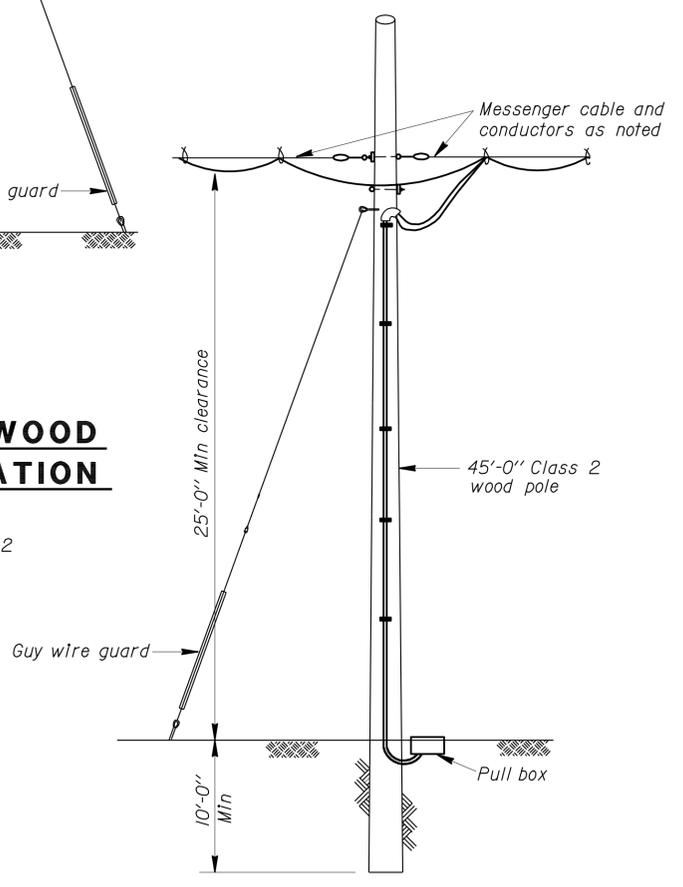
See "DETAIL C", sheet E-2



TEMPORARY SERVICE INSTALLATION

DETAIL E

See "DETAIL E", sheet E-2



TEMPORARY SIGNAL INSTALLATION

DETAIL D

See "DETAIL D", sheet E-2

NOTES:

1. For general notes and Installation details, see sheet SES-2.
2. For attachment details, see electrical sheets E-1 and E-2.
3. See "CROSSBAR DETAIL" on sheet SES-2.
4. Guy wires shall be installed in perpendicular direction to conductors line direction otherwise see Note 3 on sheet SES-2.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

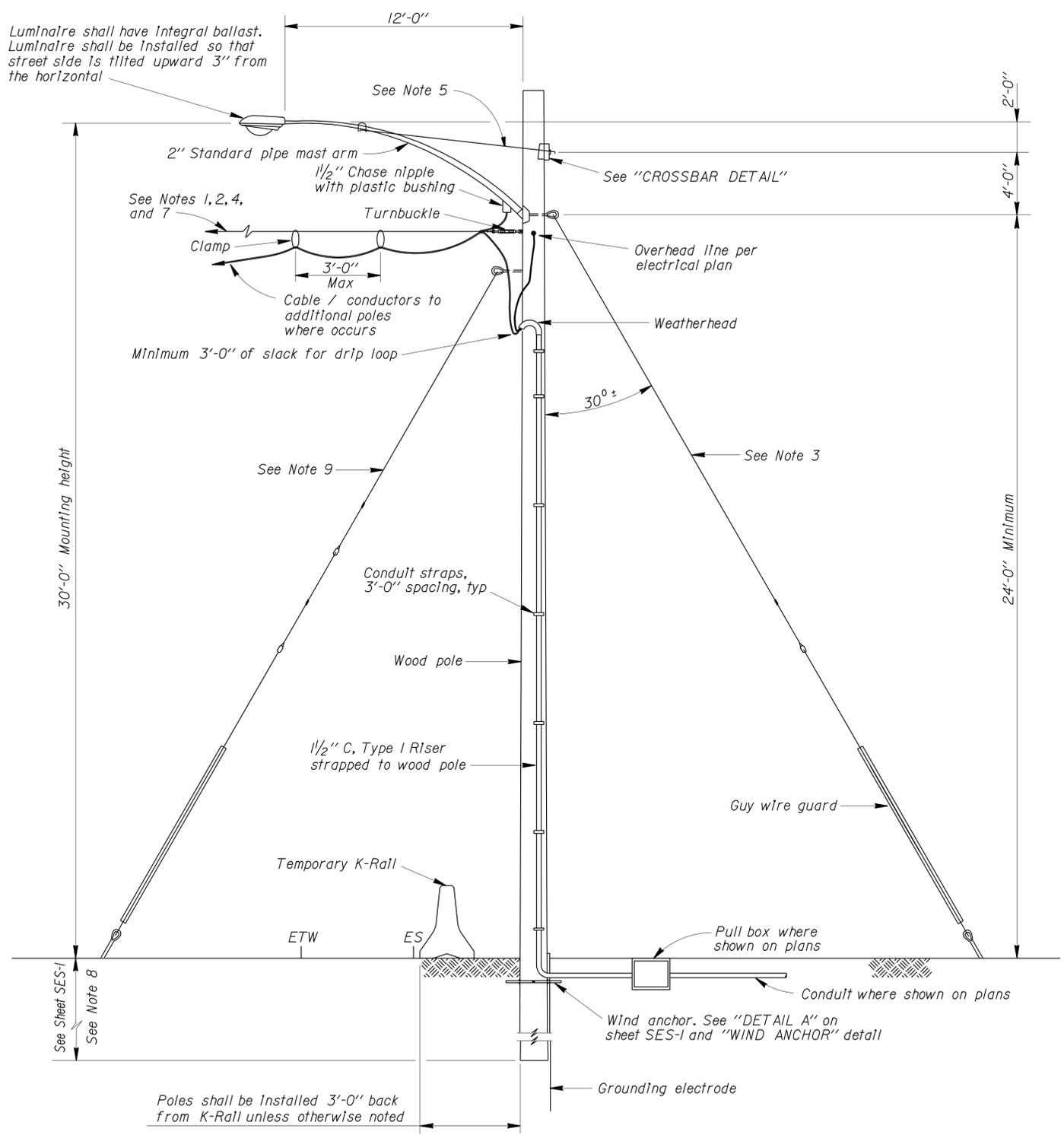
BRANCH CHIEF <i>Jeffrey B. Woody</i>	DESIGN	BY TAMARA MARCHENKO	CHECKED STAN JOHNSON	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH	BRIDGE NO.	TEMPORARY SIGNAL SYSTEM	SES-1
	DETAILS	BY R. YEE	CHECKED TAMARA MARCHENKO			POST MILE		
	QUANTITIES	BY	CHECKED					

DATE PLOTTED => 02-MAR-2011 USERNAME => JHS/TK

TABLE 1 - MESSENGER WIRES AND GUY WIRES

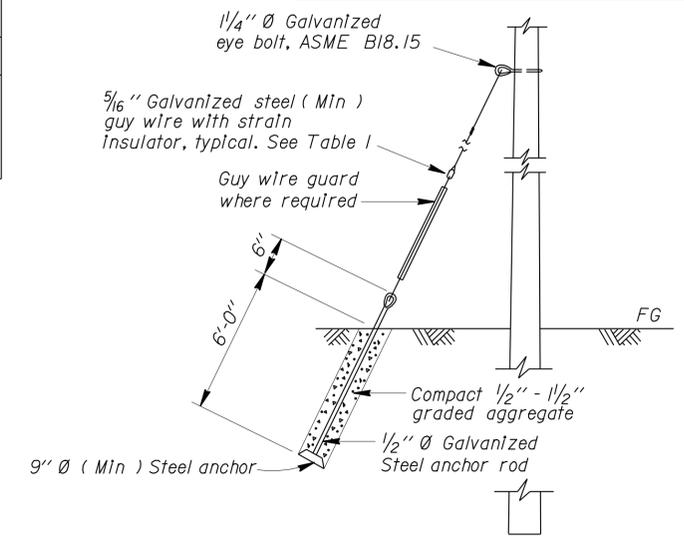
DIAMETER SHOWN	NUMBER OF STRANDS	GRADE	MINIMUM BREAKING STRENGTH (lbs)
1/4"	3	Utility	3,150
5/16"	7	Utility	6,000
3/8"	7	Utility	11,500
7/16"	7	Utility	18,000
1/2"	7	Utility	25,000

Messenger wires: ASTM Designation A475-03, "Standard Specification For Zinc-Coated Steel Wire Strand". Weight of zinc coating Class B or Class C. Temporary messenger wires may use Class A.

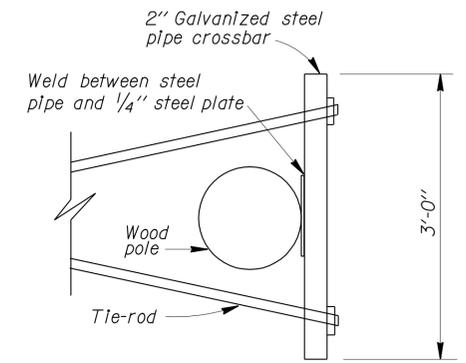


TYPICAL LUMINAIRE MOUNTING DETAIL ON WOOD POLE

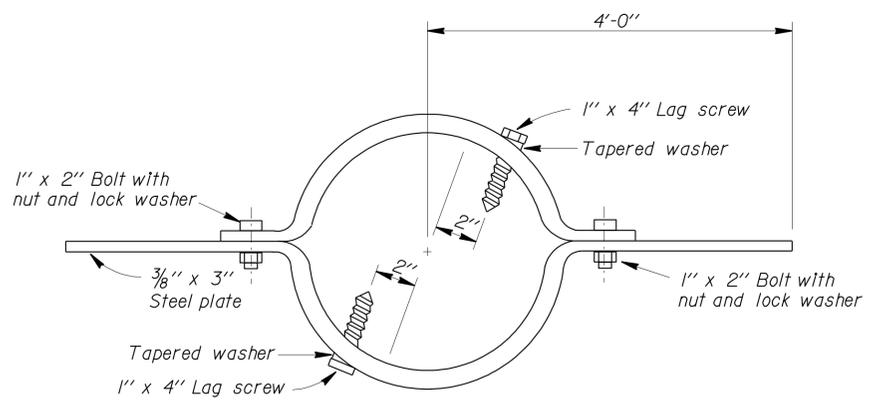
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



GUY WIRE INSTALLATION DETAIL



CROSSBAR DETAIL



WIND ANCHOR

Note: To be installed perpendicular to mast arms and 2'-0" minimum below grade

GENERAL NOTES:

- All overhead cables shall be slack spanned with 25'-0" minimum overhead clearance.
- No spare conductors required except as noted.
- Wood poles shall be breast blocked or raked at each corner, drop or line deviation more than 15° from straight line. The direction of the guy wire shall counteract the resultant unbalanced horizontal force of 2000 lbs (Min) applied to the pole. Where space or conflict prevents guy wire installation, a diagonal brace shall be used. The brace shall be wood and shall be connected to the pole by the means to satisfy structural and electrical provision requirements. The direction of the brace shall counteract the resultant unbalanced force applied to the pole.
- Cable shall be suspended from span-wire as follows:
 A) Main run 3/8" span-wire with 4.5% - 5% maximum sag. See Table 1.
- Pipe tie-rods shall be 3/8" span-wire for mast arms with 5/8" round bolt tips on each end.
- Overhead line construction not specifically covered here on shall conform with the provisions of General Order No.95 of Public Utilities Commission.
- Maximum span = 200' with total weight of overhead conductors and messenger wires 0.4 lbs per linear feet (Max).
- If pole is located on a steep slope, add 2 feet extra for embedment.
- Two opposite guy wires shall be installed for "DETAIL A" and "DETAIL C" on sheet E-2.

BRANCH CHIEF *Jeffrey B. Woody*

DESIGN	BY TAMARA MARCHENKO	CHECKED STAN JOHNSON
DETAILS	BY R. YEE	CHECKED TAMARA MARCHENKO
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 DESIGN AND TECHNICAL SERVICES
 SPECIAL DESIGNS BRANCH

NO SCALE

BRIDGE NO.	
POST MILE	

TEMPORARY SIGNAL SYSTEM
 WOOD POLE DETAILS

SES-2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4	4.4	11	19

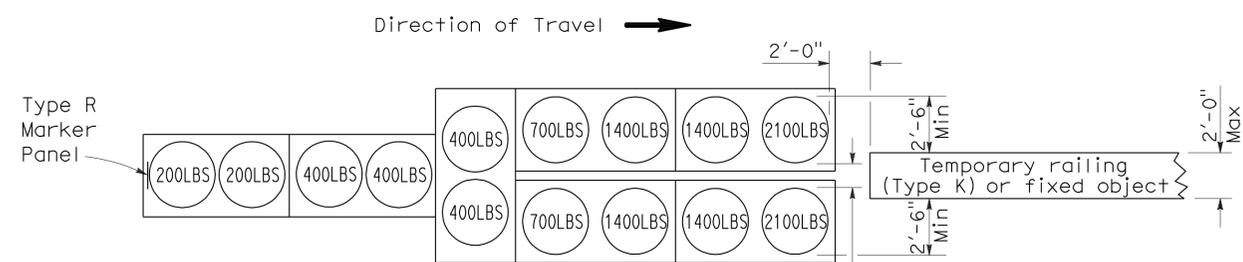
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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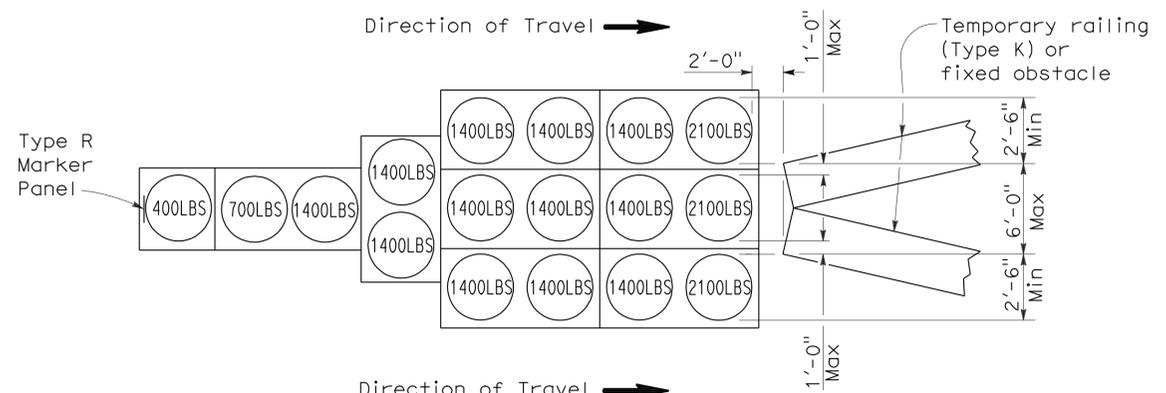
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 3-7-11



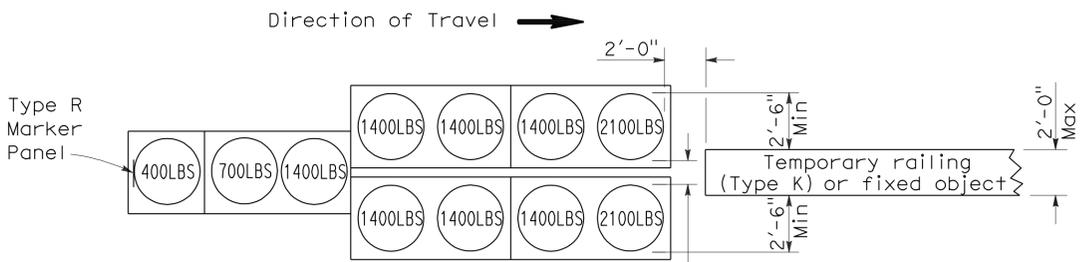
ARRAY 'TU14'

Approach speed 45 mph or more



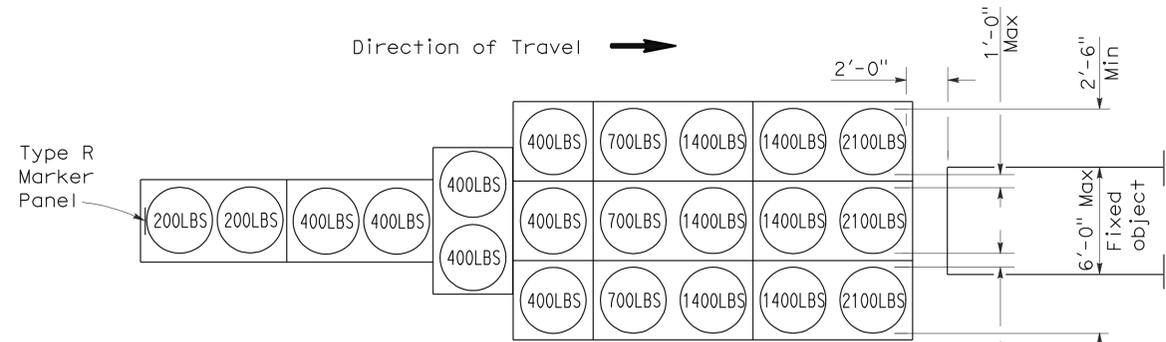
ARRAY 'TU17'

Approach speed less than 45 mph



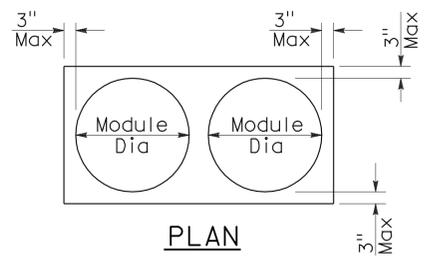
ARRAY 'TU11'

Approach speed less than 45 mph

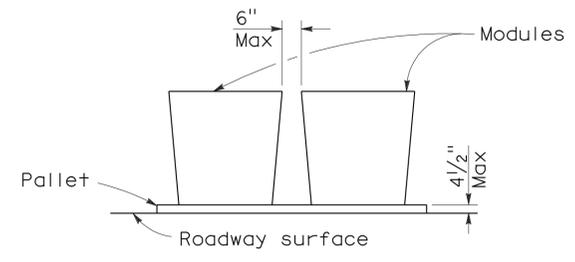


ARRAY 'TU21'

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

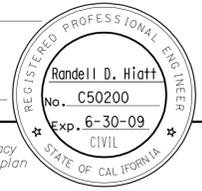
2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4	4.4	12	19

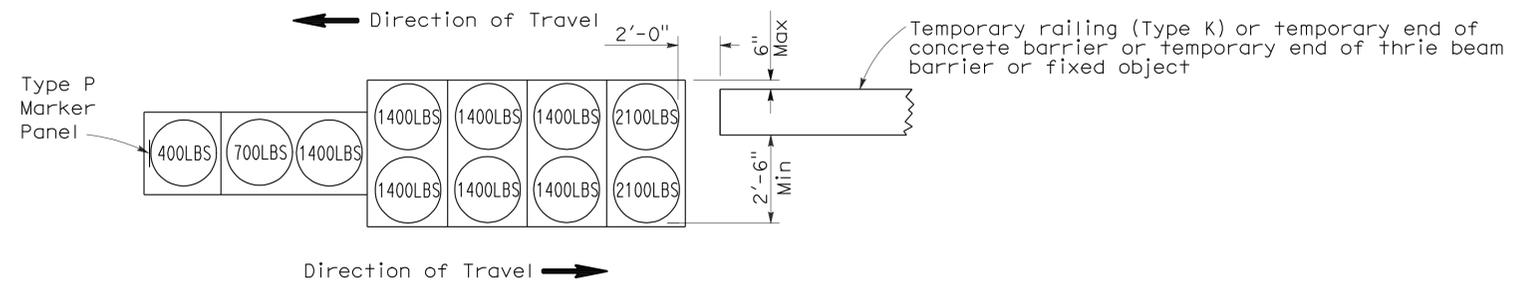
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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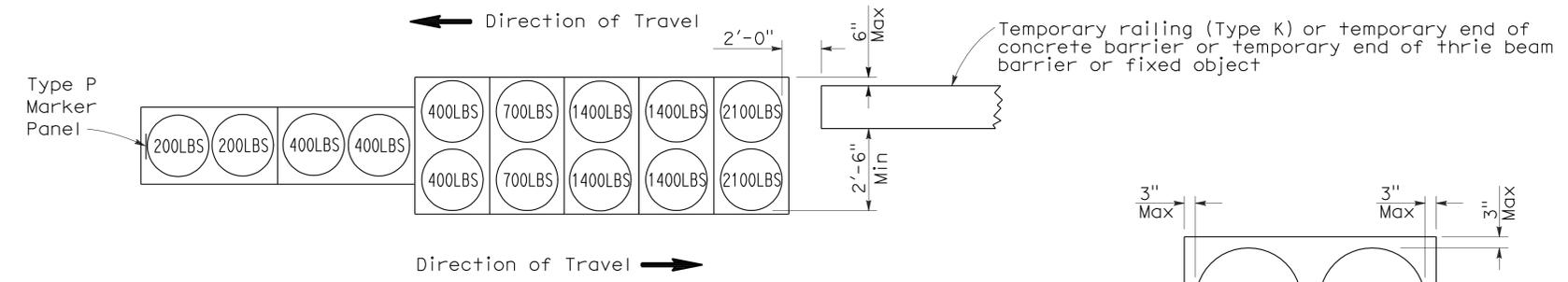


To accompany plans dated 3-7-11



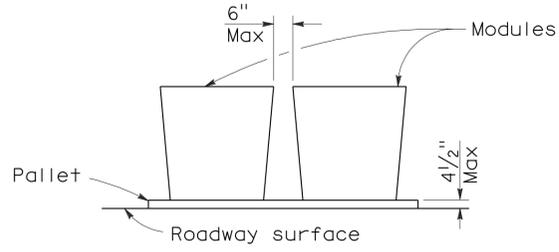
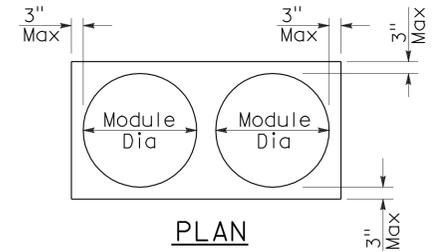
ARRAY 'TB11'

Approach speed less than 45 mph



ARRAY 'TB14'

Approach speed 45 mph or more



CRASH CUSHION PALLET DETAIL
See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY CRASH CUSHION,
SAND FILLED
(BIDIRECTIONAL)**
NO SCALE

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

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4	4.4	13	19

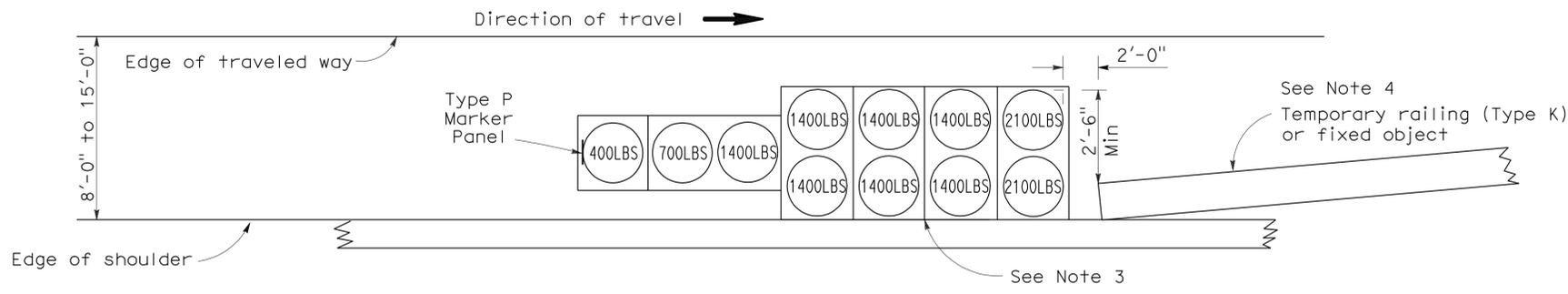
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

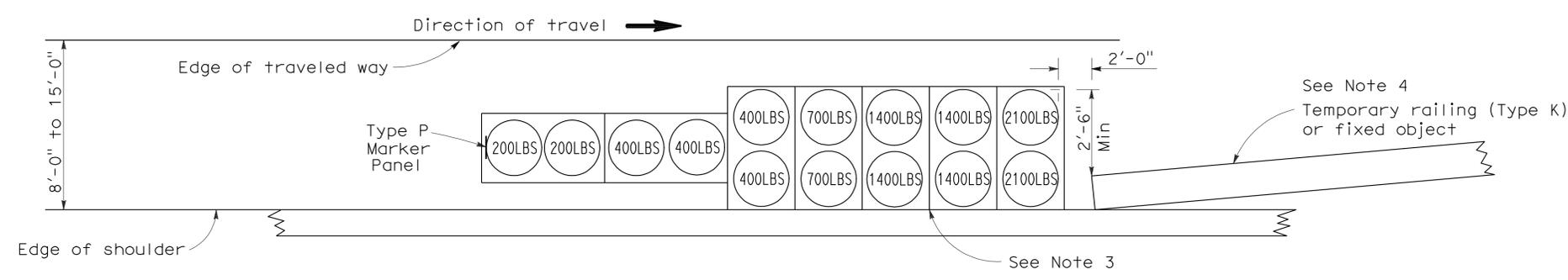
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

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

To accompany plans dated 3-7-11



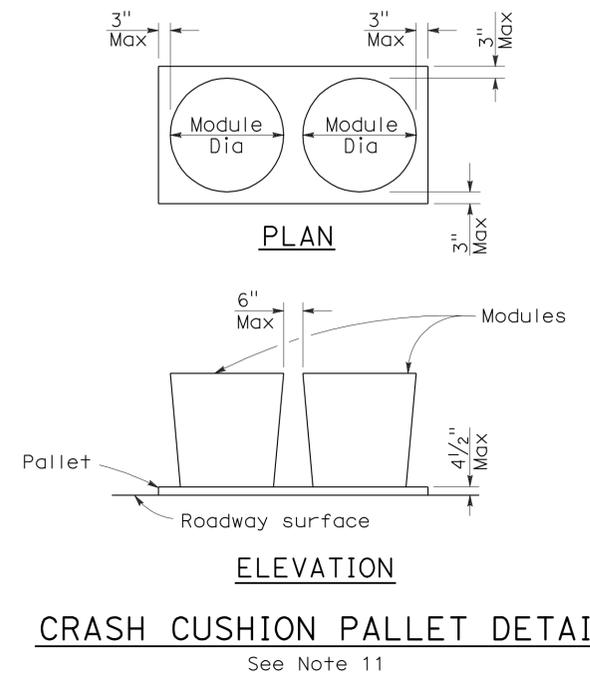
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



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

NOTES:

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



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

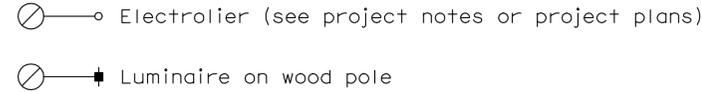
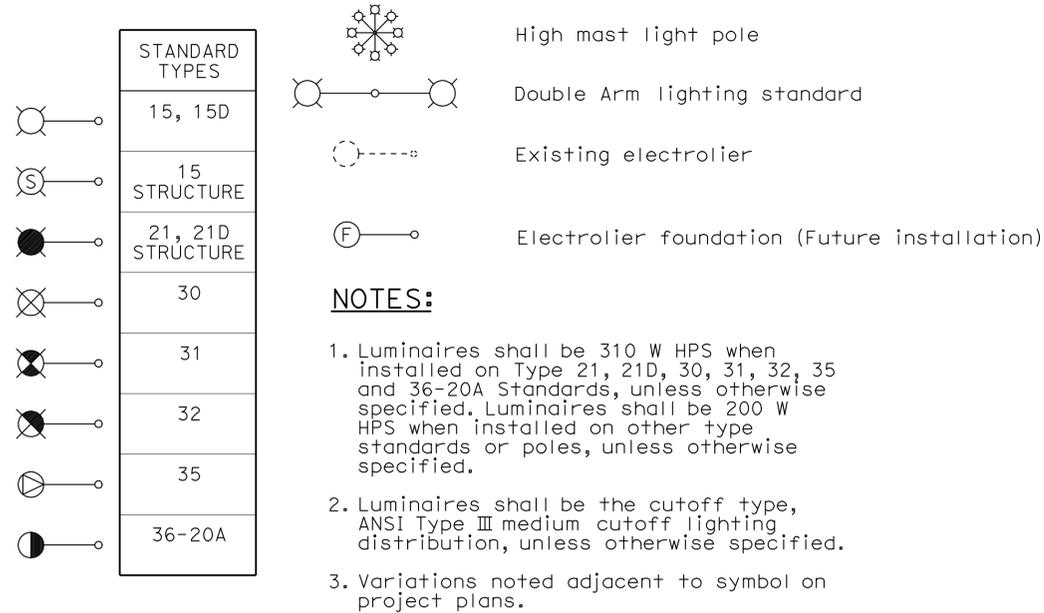
**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**

NO SCALE
RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

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, top 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, top 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	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
10	SJ	4	4.4	14	19

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

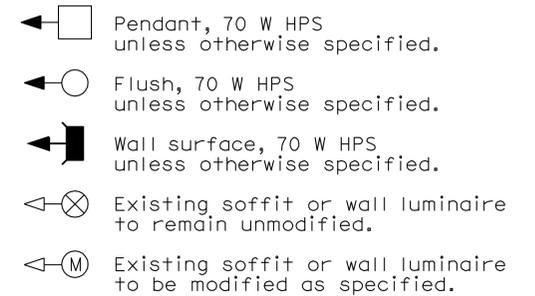
October 5, 2007
PLANS APPROVAL DATE

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

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To accompany plans dated 3-7-11

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
10	SJ	4	4.4	15	19

Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

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

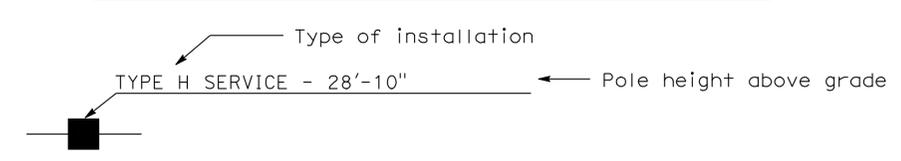
SIGNAL EQUIPMENT

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:

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

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

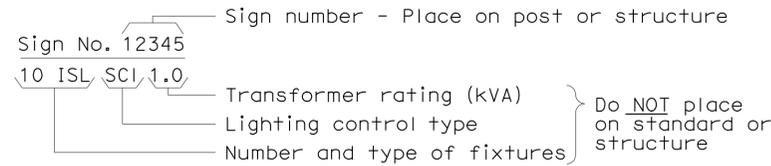
RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

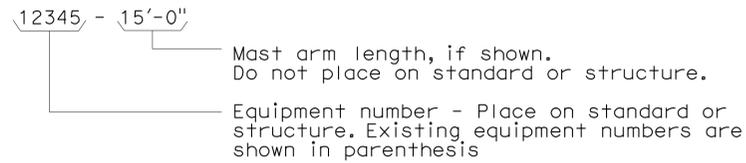
2006 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

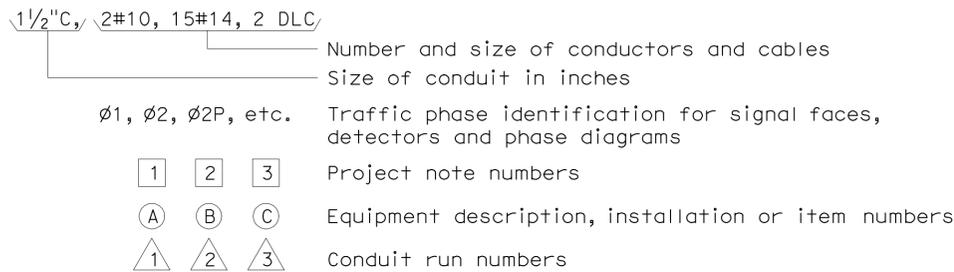
ILLUMINATED SIGN IDENTIFICATION NUMBER:



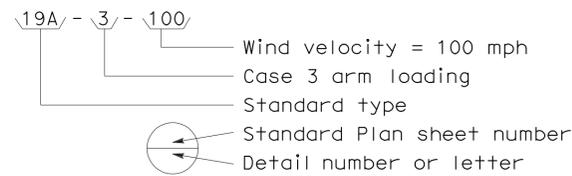
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



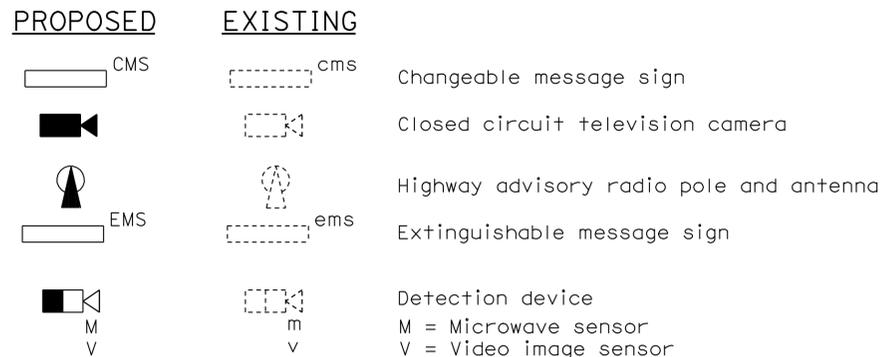
CONDUIT AND CONDUCTOR IDENTIFICATION:



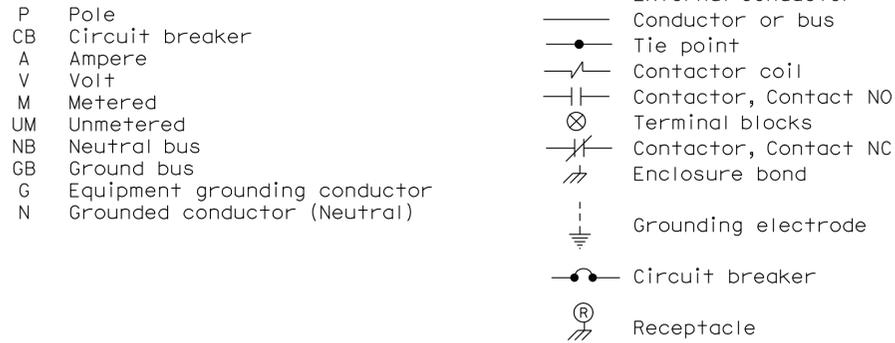
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



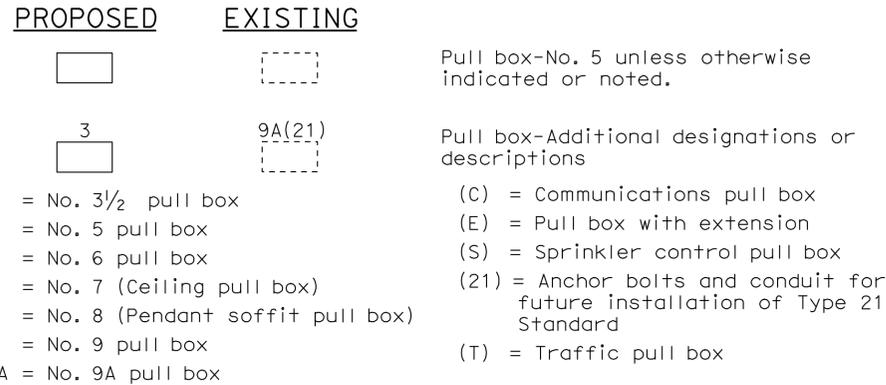
MISCELLANEOUS EQUIPMENT



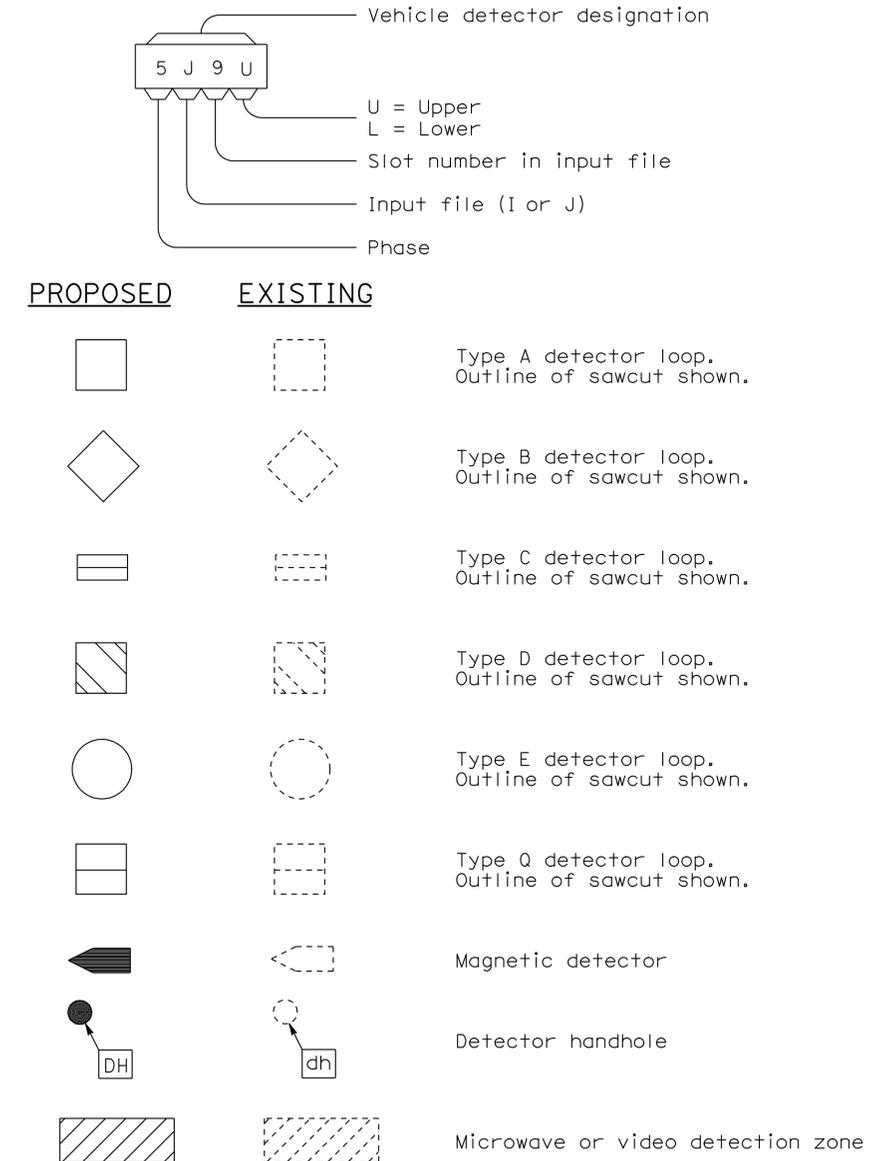
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (SYMBOLS AND ABBREVIATIONS)**

NO SCALE

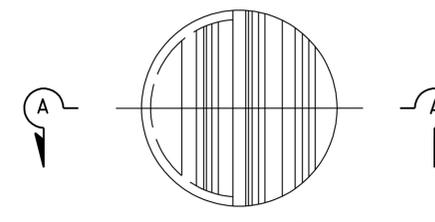
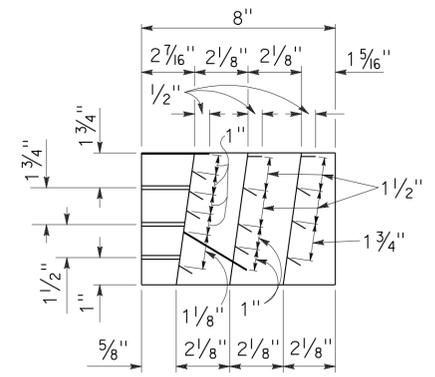
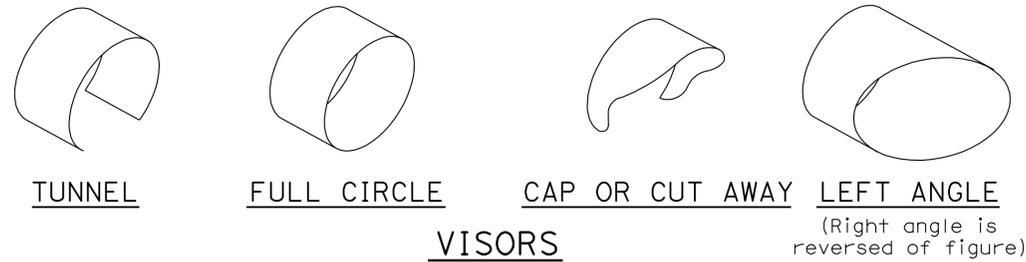
RSP ES-1C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1C
 DATED MAY 1, 2006 - PAGE 402 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1C

2006 REVISED STANDARD PLAN RSP ES-1C

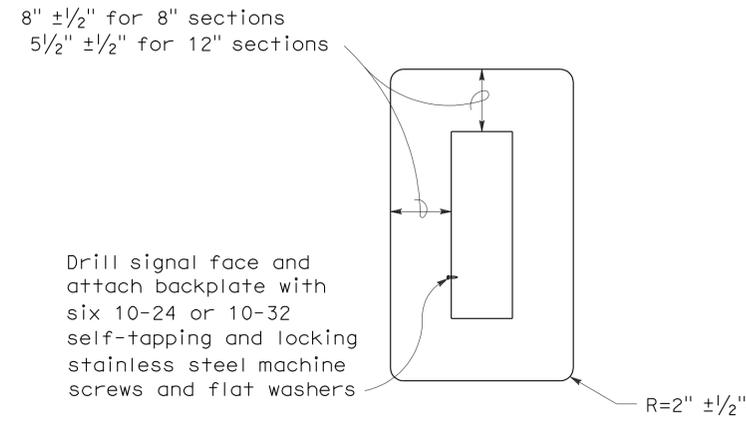
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4	4.4	17	19

Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 June 6, 2008
 PLANS APPROVAL DATE
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 REGISTERED PROFESSIONAL ENGINEER
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-10
 ELECTRICAL
 STATE OF CALIFORNIA



DIRECTIONAL LOUVER

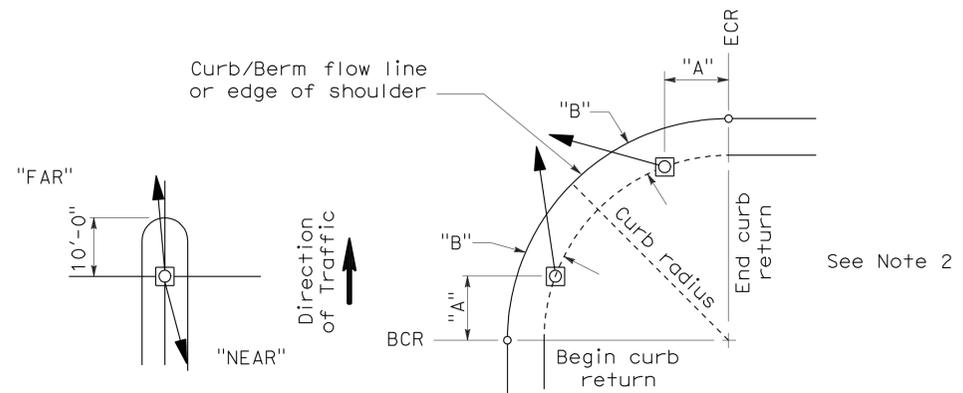
Directional louvers shall be oriented as directed by the Engineer and secured in place with one plated brass machine screw and nut.



8" AND 12" SECTIONS

BACKPLATE

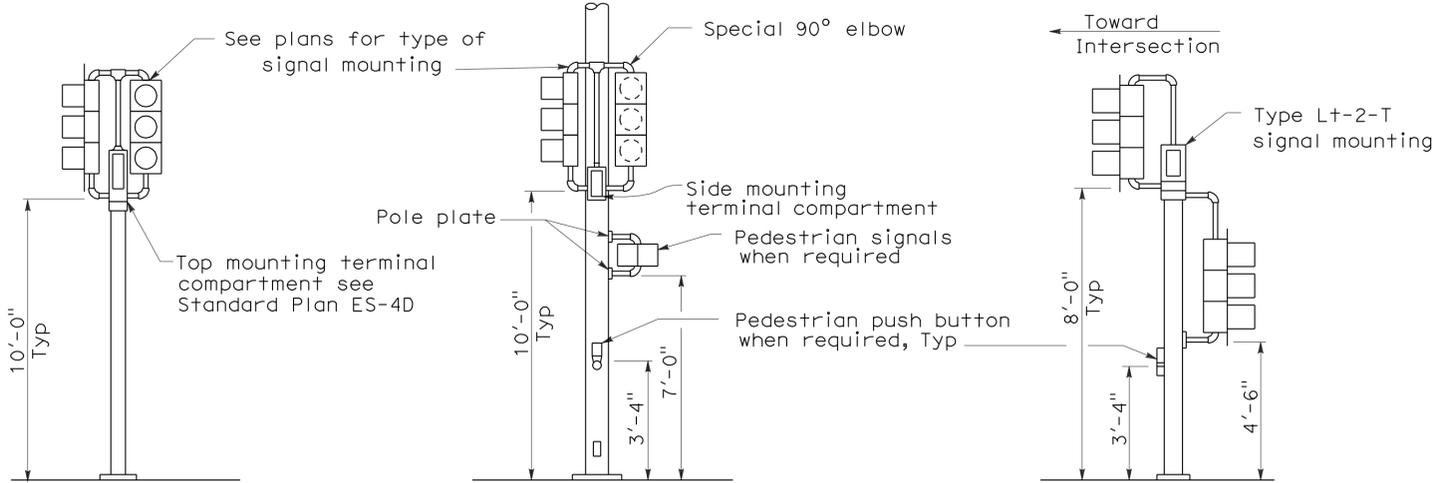
1/16" minimum thickness
 3001-14 aluminum, or plastic when specified



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.

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

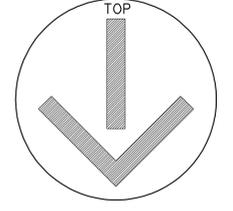
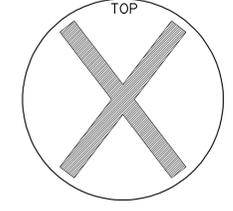
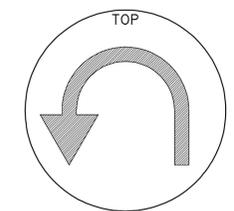
SIDE MOUNTED SIGNALS (SV AND SP)

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

TYPICAL SIGNAL INSTALLATIONS



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.

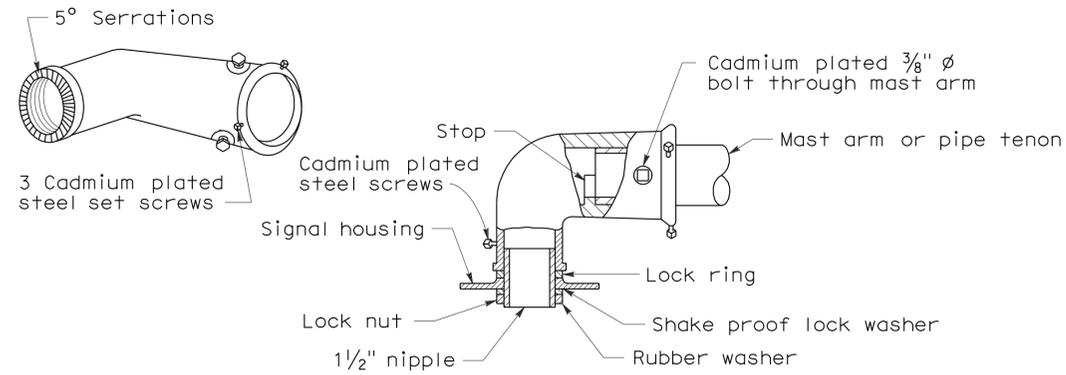
REVISED STANDARD PLAN RSP ES-4C

2006 REVISED STANDARD PLAN RSP ES-4C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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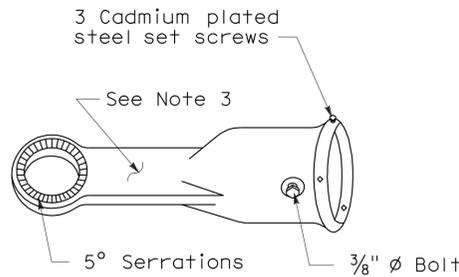
Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 June 6, 2008
 PLANS APPROVAL DATE
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 REGISTERED PROFESSIONAL ENGINEER
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-10
 ELECTRICAL
 STATE OF CALIFORNIA

To accompany plans dated 3-7-11



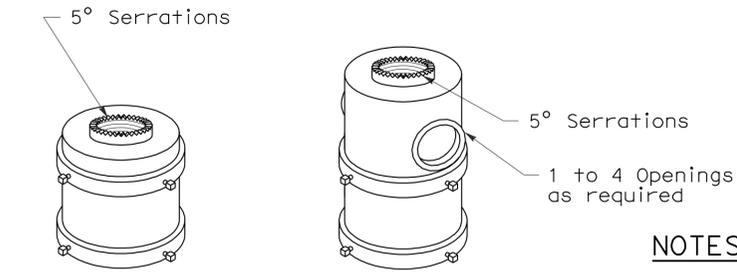
MAST ARM MOUNTING - TYPE "MAT"

For 2 NPS pipe, see Note 1.



MAST ARM MOUNTING - TYPE "MAS"

For 2 NPS pipe. See Note 1.



For one mounting For multiple mountings

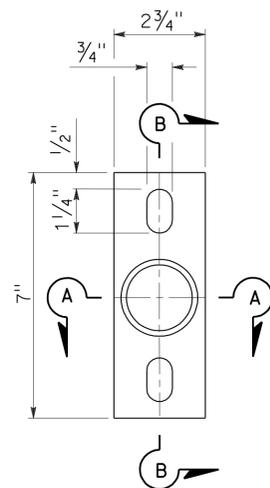
TOP MOUNTINGS

For 4 NPS pipe, see Note 2.

NOTES:

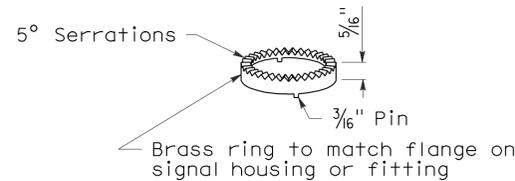
- After mast arm signal has been plumbed and secured, drill 7/16 inch hole through mast arm tenon in line with slip fitter hole. Place a cadmium plated 3/8 inch diameter galvanized bolt with washer under bolt head through hole and secure with washer, nut, and locknut. Seal openings between mast arm mountings 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 inch.

SIGNAL SLIP FITTERS



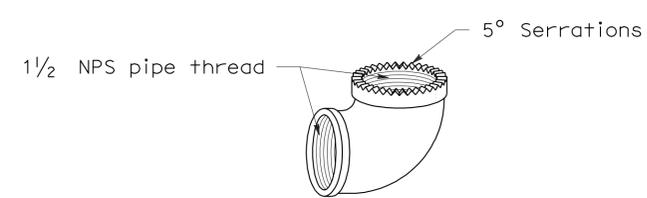
POLE PLATE

For side mountings



LOCK RING

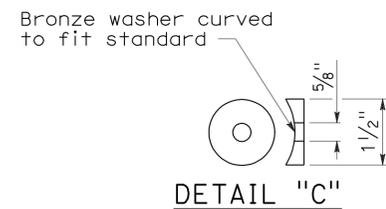
Use where locking ring is not integral with signal housing or fitting.



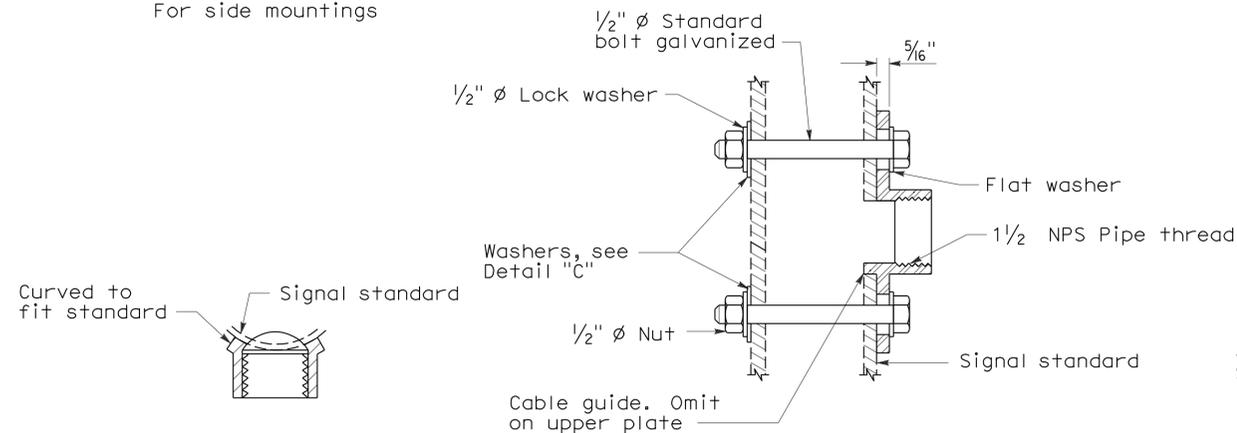
SPECIAL 90° ELBOW

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

MISCELLANEOUS MOUNTING HARDWARE

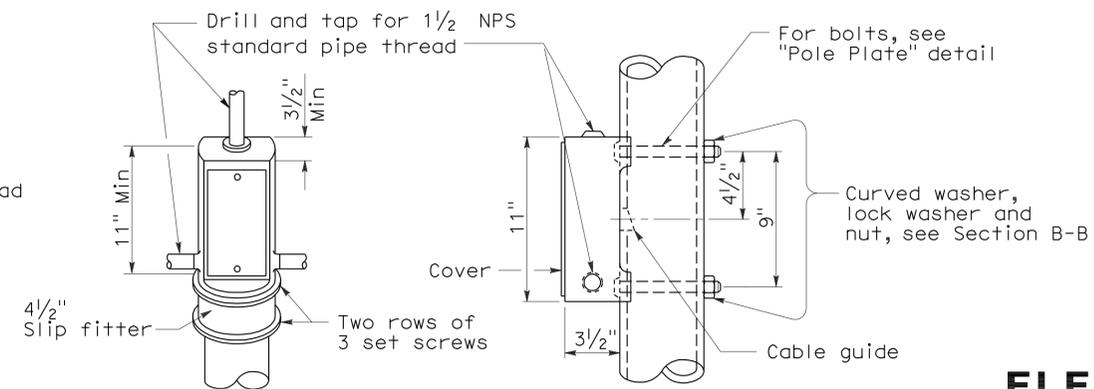


DETAIL "C"



SECTION A-A

SECTION B-B



TOP MOUNTING

SIDE MOUNTING

TERMINAL COMPARTMENTS

ELECTRICAL SYSTEMS (SIGNAL HEADS AND MOUNTINGS)

NO SCALE

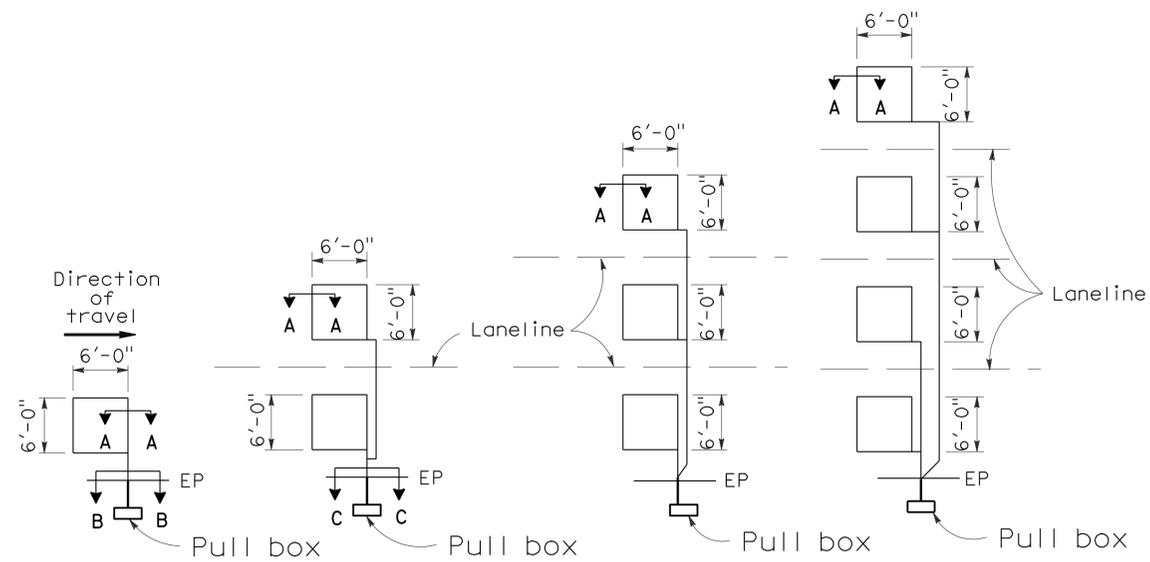
RSP ES-4D DATED June 6, 2008 SUPERSEDES STANDARD PLAN ES-4D DATED MAY 1, 2006 - PAGE 421 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-4D

2006 REVISED STANDARD PLAN RSP ES-4D

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.

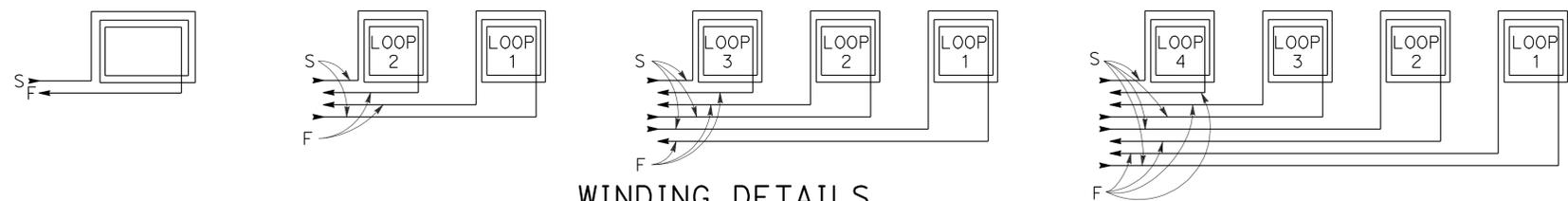


TYPE 1A INSTALLATION TYPE 2A INSTALLATION TYPE 3A INSTALLATION TYPE 4A INSTALLATION

SAWCUT DETAILS

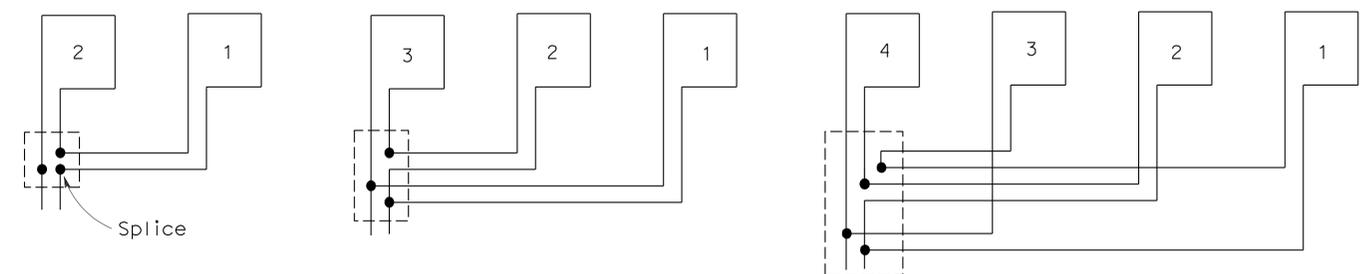
(Type A loop detector configurations illustrated)

- 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)



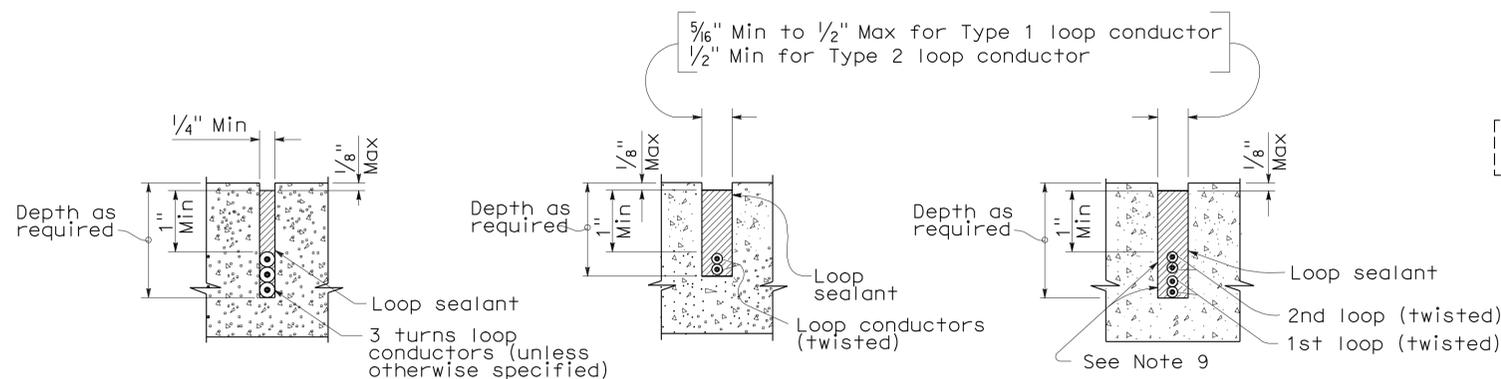
WINDING DETAILS

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4	4.4	19	19

Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 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
 Jeffery G. McRae
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

To accompany plans dated 3-7-11

2006 REVISED STANDARD PLAN RSP ES-5A

ELECTRICAL SYSTEMS (DETECTORS)

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