

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-7	ELECTRICAL PLANS
8-10	REVISED STANDARD PLANS

STRUCTURE PLANS

11	VIDEO DISPLAY AT RTMC
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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

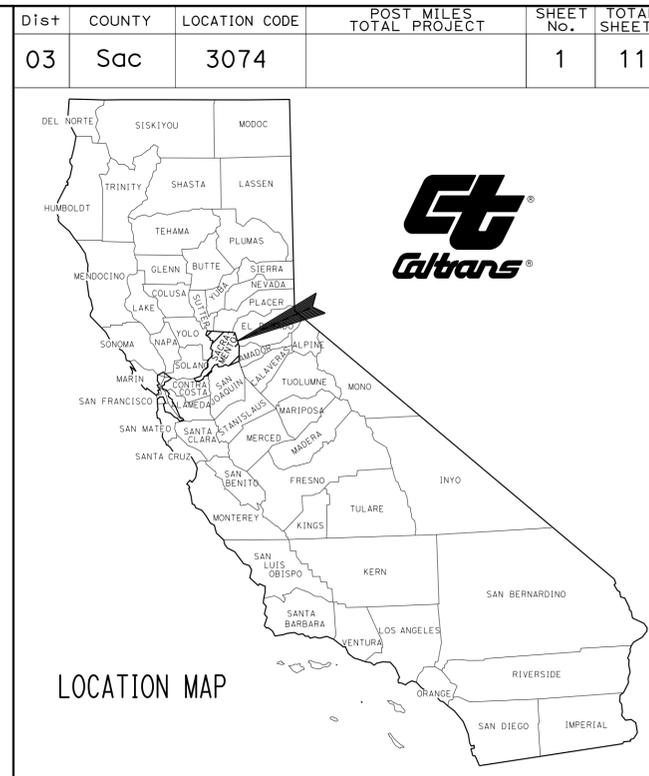
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

ACNHP-P050(140)

PROJECT PLANS FOR BUILDING CONSTRUCTION

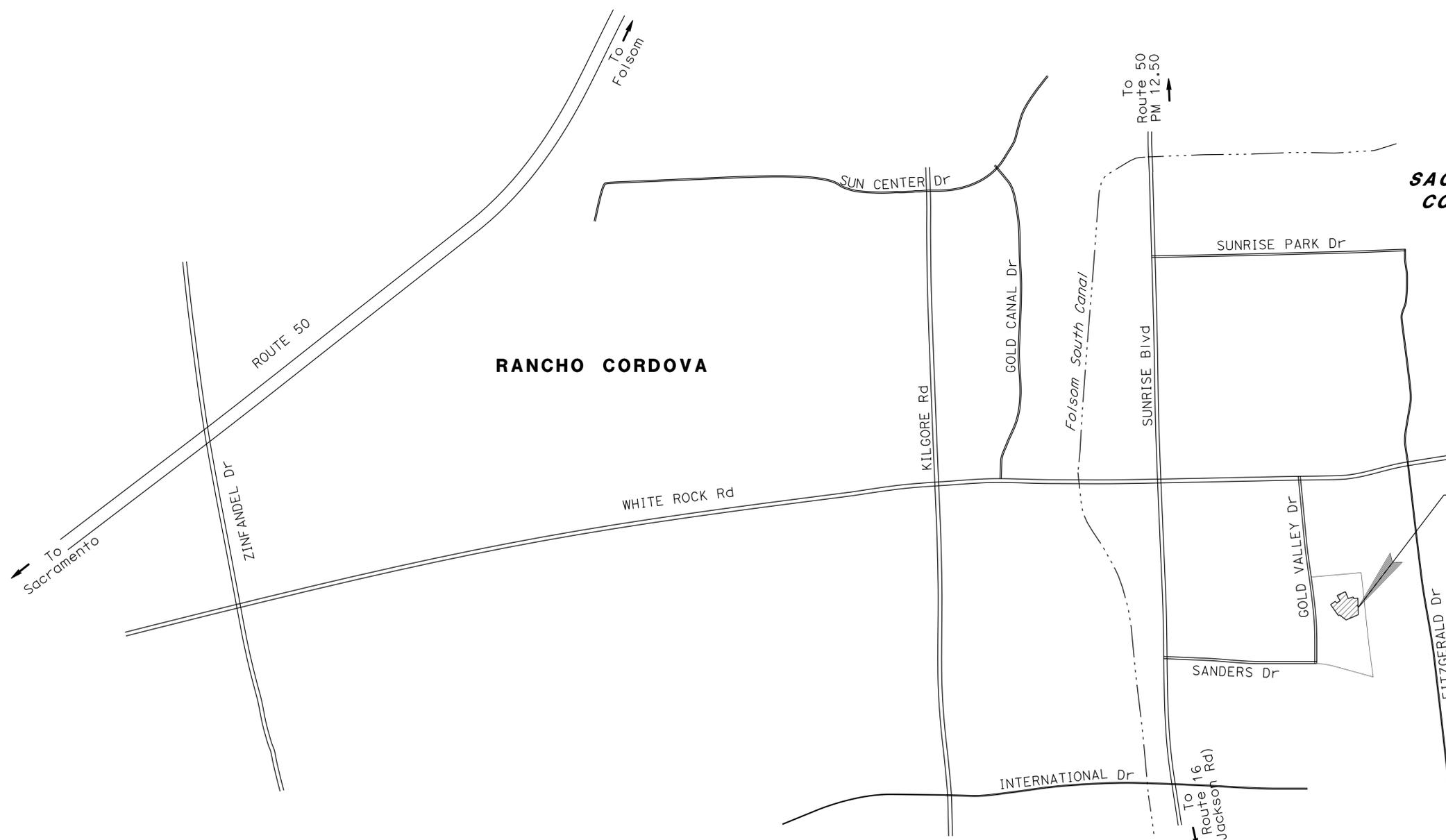
IN SACRAMENTO COUNTY  
IN RANCHO CORDOVA  
AT THE REGIONAL TRANSPORTATION MANAGEMENT CENTER  
AT 3165 GOLD VALLEY DRIVE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

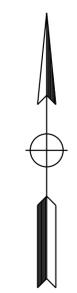


PROJECT MANAGER  
JONATHAN PRAY

DESIGN MANAGER  
MIKE HAGEN



SACRAMENTO COUNTY



**LOCATION OF CONSTRUCTION  
DISTRICT 3 REGIONAL  
TRANSPORTATION  
MANAGEMENT CENTER  
LOCATION CODE No. 3074**

*James M. Philipp* 5-2-16  
PROJECT ENGINEER DATE  
REGISTERED CIVIL ENGINEER



May 2, 2016  
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.	<b>03-4F4104</b>
PROJECT ID	<b>0314000160</b>

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	3074		2	11

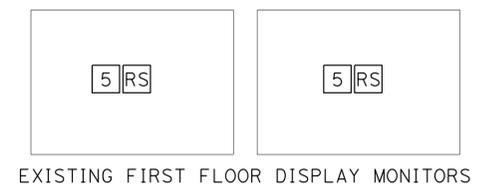
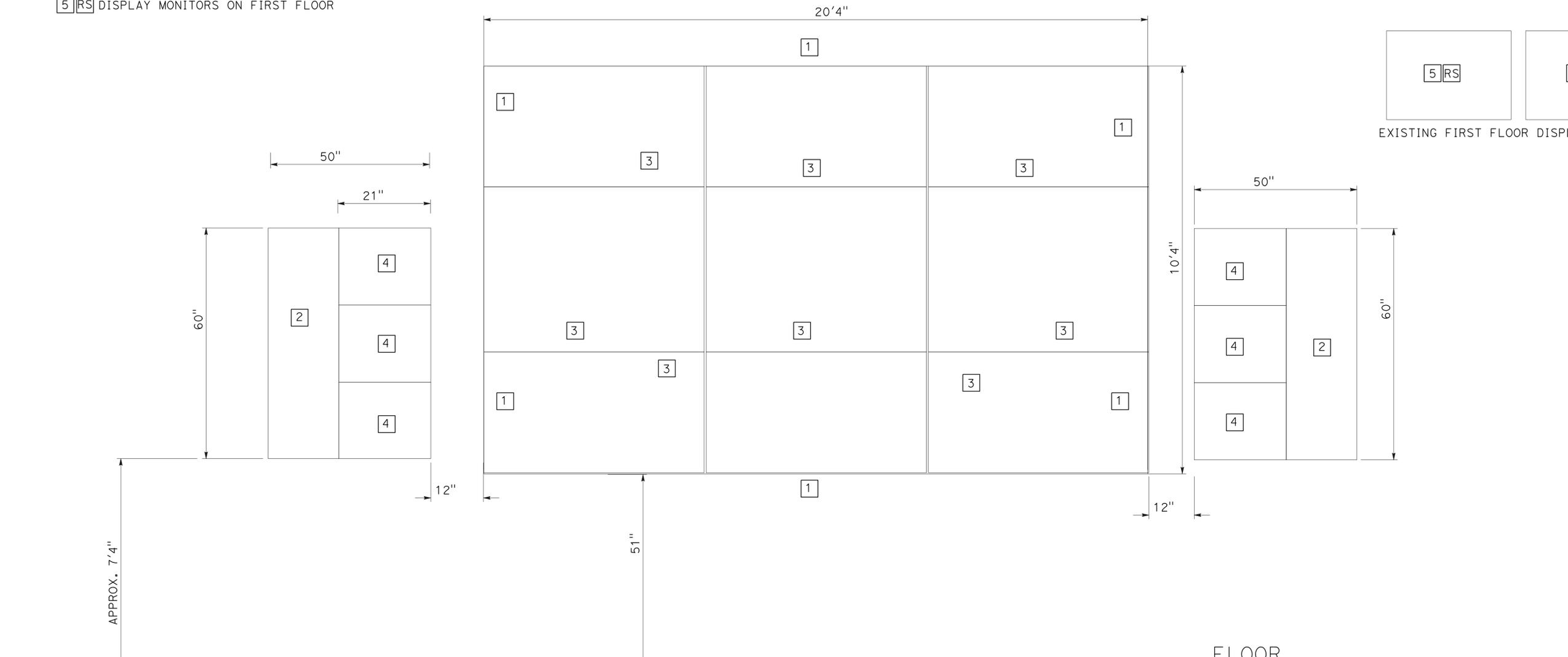
5-2-16  
 REGISTERED ELECTRICAL ENGINEER DATE  
 DEAN CAMPBELL  
 No. E16417  
 Exp. 06-30-17  
 ELECTRICAL  
 STATE OF CALIFORNIA

5-2-16  
 PLANS APPROVAL DATE

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

**NOTES:**

- 1 CONTRACTOR TO REMOVE ALL EXISTING MOUNTING HARDWARE.
- 2 RC PLYWOOD
- 3 RC VIDEO DISPLAY UNIT
- 4 RC CRT MONITOR
- 5 RS DISPLAY MONITORS ON FIRST FLOOR



**LEGEND:**

- CRDM - CONFERENCE ROOM DISPLAY MONITOR
- CRT - CATHODE RAY TUBE
- DANS - DIGITAL AUDIO NETWORK SERVER
- DMPS - DIGITAL MEDIA PRESENTER SWITCH
- DMRS - DIGITAL MEDIA RECEIVER SCALER
- ECAA - 8-CHANNEL AUDIO AMPLIFIER
- LDC - LED DISPLAY CONTROLLER
- LWDM - LOBBY WALL DISPLAY MONITOR
- NUVD - NETWORK UNIVERSAL VIDEO DECODER
- NVDD - NETWORK VIDEO DISPLAY DECODER
- RMES - RACK-MOUNTED ETHERNET SWITCH
- VDS - VIDEO DISPLAY SERVER
- VWDL - VIDEO WALL DISPLAY LARGE
- VWDS - VIDEO WALL DISPLAY SMALL
- WLPS - WIRELESS PRESENTATION SYSTEM
- WLTS - WIRELESS TOUCHSCREEN SYSTEM

**EXISTING VIDEO DISPLAY SYSTEM**  
 FRONT VIEW, SECOND FLOOR  
**REGIONAL TRANSPORTATION MANAGEMENT CENTER**

**MODIFYING EXISTING ELECTRICAL SYSTEMS**

NO SCALE

**E-1**

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 ELECTRICAL DESIGN  
 FUNCTIONAL SUPERVISOR: DEAN CAMPBELL  
 CALCULATED/DESIGNED BY: DEAN CAMPBELL  
 CHECKED BY: GURDEEP SIDHU  
 BERHANU ZERGAW  
 REVISED BY: GURDEEP SIDHU  
 DATE:

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	3074		3	11

<i>Dean Campbell</i>	5-2-16
REGISTERED ELECTRICAL ENGINEER	DATE

5-2-16
PLANS APPROVAL DATE

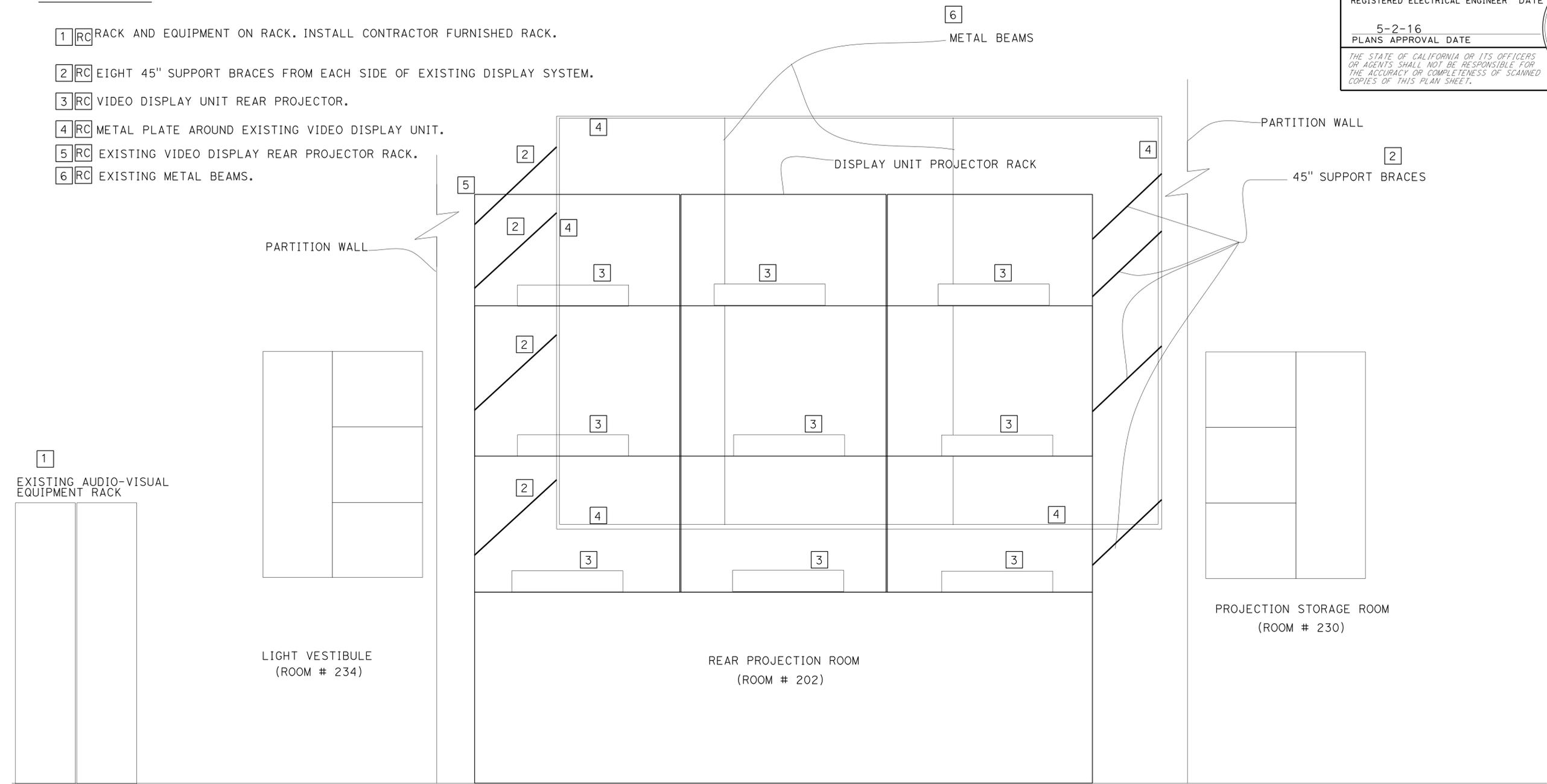
  

REGISTERED PROFESSIONAL ENGINEER
DEAN CAMPBELL
No. E16417
Exp. 06-30-17
ELECTRICAL
STATE OF CALIFORNIA

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

**NOTES:**

- 1 RC RACK AND EQUIPMENT ON RACK. INSTALL CONTRACTOR FURNISHED RACK.
- 2 RC EIGHT 45" SUPPORT BRACES FROM EACH SIDE OF EXISTING DISPLAY SYSTEM.
- 3 RC VIDEO DISPLAY UNIT REAR PROJECTOR.
- 4 RC METAL PLATE AROUND EXISTING VIDEO DISPLAY UNIT.
- 5 RC EXISTING VIDEO DISPLAY REAR PROJECTOR RACK.
- 6 RC EXISTING METAL BEAMS.



**EXISTING VIDEO DISPLAY SYSTEM PROJECTOR**  
 BACK ROOMS  
**REGIONAL TRANSPORTATION MANAGEMENT CENTER**

**MODIFYING EXISTING ELECTRICAL SYSTEMS**

NO SCALE

**E-2**

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
<b>Caltrans</b>	DEAN CAMPBELL	CHECKED BY	BERHANU ZERGAW
			GURDEEP SIDHU
			DATE REVISED

LAST REVISION | DATE PLOTTED => 17-JUN-2016 02-16-16 | TIME PLOTTED => 15:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	3074		4	11

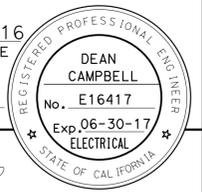
<i>Dean Campbell</i>	5-2-16
REGISTERED ELECTRICAL ENGINEER	DATE

5-2-16	
PLANS APPROVAL DATE	

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

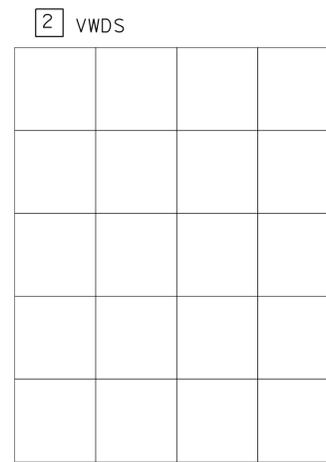
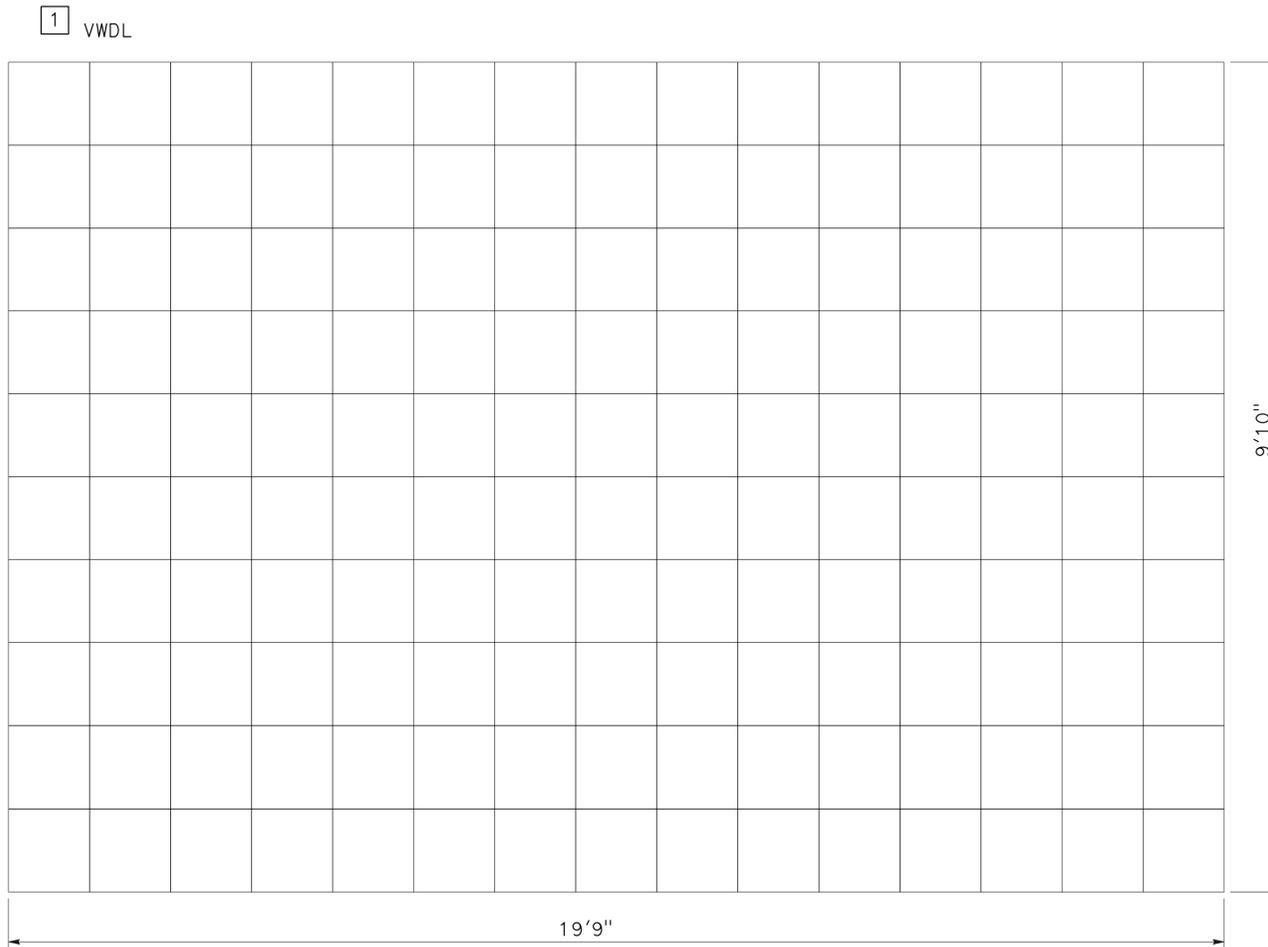
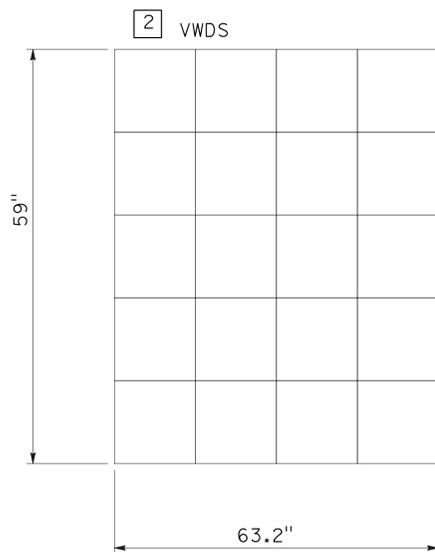


**NOTES:**

- 1 VWDL MODULE CONFIGURATION IS 15 W X 10 H.
- 2 VWDS MODULE CONFIGURATION IS 4 W X 5 H.
3. CONTRACTOR TO MEASURE AND DETERMINE THE WALL SPACE AND THE POWER REQUIREMENT BEFORE WORK BEGINS.
4. CONTRACTOR TO INSTALL PARTITION/CURTAIN TO WORK BEHIND PERSONNEL ON DUTY TO LIMIT NOISE.
5. CONTRACTOR WILL TRIM THE EXTRA SPACE AROUND THE DISPLAYS.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 ELECTRICAL DESIGN  
 FUNCTIONAL SUPERVISOR  
 DEAN CAMPBELL  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 BERHANU ZERGAW  
 GURDEEP SIDHU  
 REVISED BY  
 DATE REVISED

SECOND FLOOR



**VIDEO WALL DISPLAY SYSTEM (Typical)**  
 FRONT  
**REGIONAL TRANSPORTATION MANGAGEMENT CENTER**

**MODIFYING EXISTING ELECTRICAL SYSTEMS**  
 NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

**E-3**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	3074		5	11

<i>Dean Campbell</i>	5-2-16
REGISTERED ELECTRICAL ENGINEER	DATE

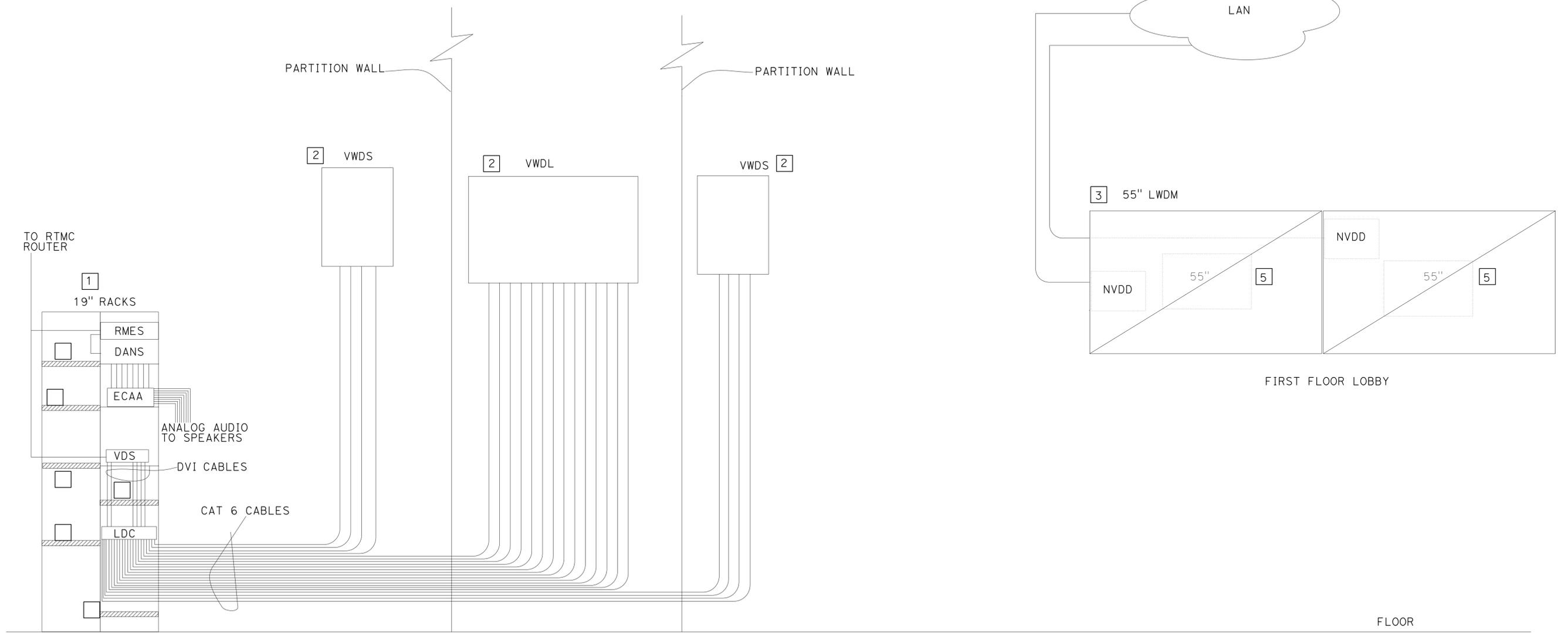
5-2-16	
PLANS APPROVAL DATE	

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**NOTES:**

- 1 INSTALL CONTRACTOR FURNISHED 19" RACKS. INSTALL RMES, DANS, ECAA, VDS, AND LDC ON RACK.
- 2 THE VWDS AND VWDL SYSTEMS TO BE CONNECTED TO LED DISPLAY CONTROLLER THROUGH CAT 6 ETHERNET CABLES.
- 3 RS DISPLAY MONITORS FROM FIRST FLOOR. INSTALL TWO 55" LWDM WITH APPROPRIATE MOUNTS AND WIRING.
- 4 INSTALL CONTRACTOR FURNISHED STANDARD HALF-SHELVES.
- 5 INSTALL MOUNTING ADAPTER.



**VIDEO DISPLAY SYSTEM LAYOUT**

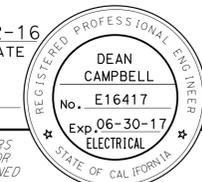
BACK ROOM  
**REGIONAL TRANSPORTATION MANAGEMENT CENTER**

**MODIFYING EXISTING ELECTRICAL SYSTEMS**

NO SCALE

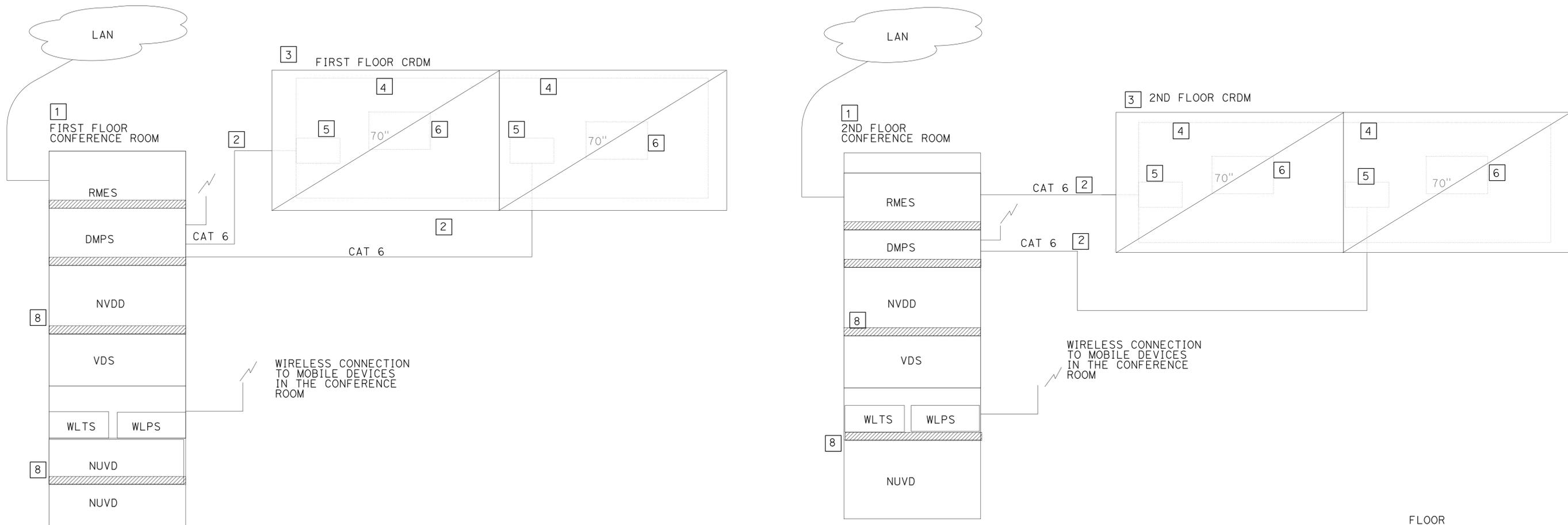
**E-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 ELECTRICAL DESIGN  
 FUNCTIONAL SUPERVISOR: DEAN CAMPBELL  
 CALCULATED/DESIGNED BY: DEAN CAMPBELL  
 CHECKED BY:  
 REVISIONS:  
 REVISOR: BERHANU ZERGAW  
 DATE: 7/2/2010  
 REVISOR: GURDEEP SIDHU  
 DATE:  
 X  
 X  
 X  
 X  
 X

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	3074		6	11
 REGISTERED ELECTRICAL ENGINEER DATE 5-2-16					
5-2-16 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

**NOTES:**

- 1] INSTALL STANDARD WALL MOUNT CABINET IN FIRST AND SECOND FLOORS CONFERENCE ROOM CLOSETS.
- 2] CRDM TO BE CONNECTED TO RESPECTIVE NVDD LOCATED ON THE BACKBOARDS THROUGH CAT 6 ETHERNET CABLES.
- 3] INSTALL TWO 70" CONTRACTOR FURNISHED CRDM WITH APPROPRIATE INSTALLATION MOUNTS AND WIRING IN THE FIRST AND SECOND FLOOR CONFERENCE ROOMS.
- 4] INSTALL BACKBOARDS FOR CRDM MOUNTING.
- 5] INSTALL DMRS ON THE BACKBOARDS.
- 6] INSTALL MOUNTING ADAPTER ON BACKBOARDS.
- 7] POWER CABLES FOR THE CRDM TO BE CONNECTED IN THE CEILING JUNCTION BOX.
- 8] INSTALL STANDARD HALF SHELVES.



**CONFERENCE ROOM DISPLAY MONITORS SYSTEM LAYOUT**  
 FIRST AND SECOND FLOOR CONFERENCE ROOMS  
**REGIONAL TRANSPORTATION MANAGEMENT CENTER**

**MODIFYING EXISTING ELECTRICAL SYSTEMS**  
NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

**E-5**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR  
 DEAN CAMPBELL

CALCULATED/DESIGNED BY  
 CHECKED BY

BERHANU ZERGAW  
 GURDEEP SIDHU

REVISED BY  
 DATE REVISED

**NOTE:**

ITEMS SHOWN IN THIS TABLE ARE NOT A SEPARATE PAY ITEM. FOR INFORMATION ONLY.

**RTMC VIDEO DISPLAY SYSTEM**

DESCRIPTION	Qty.
VIDEO WALL DISPLAY LARGE (VWDL)	1
VIDEO WALL DISPLAY SMALL (VWDS)	2
LED DISPLAY CONTROLLER (LDC)	1
VIDEO WALL MANAGEMENT SYSTEM (VWMS)	1
DIGITAL AUDIO NETWORK SERVER (DANS)/AUDIO SYSTEM	1
LOBBY WALL DISPLAY MONITOR (LWDM)	2
CONFERENCE ROOM DISPLAY MONITOR (CRDM)	2

**REGIONAL TRANSPORTATION MANAGEMENT CENTER**

**MODIFYING EXISTING ELECTRICAL SYSTEMS  
 ELECTRICAL QUANTITIES**

APPROVED FOR ELECTRICAL WORK ONLY

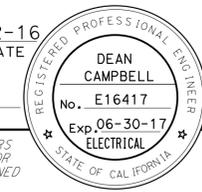
**E-6**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	3074		7	11

 5-2-16  
 REGISTERED ELECTRICAL ENGINEER DATE

5-2-16  
 PLANS APPROVAL DATE

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**LEGEND:**

<b>AB</b>	ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS
<b>BC</b>	INSTALL PULL BOX IN EXISTING CONDUIT RUN
<b>BP</b>	PEDESTRIAN BARRICADE, TYPE AS INDICATED ON PLAN
<b>CB</b>	INSTALL CONDUIT INTO EXISTING PULL BOX
<b>CC</b>	CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED
<b>CF</b>	CONDUIT TO REMAIN FOR FUTURE USE. REMOVE CONDUCTORS. INSTALL PULL TAPE
<b>DH</b>	DETECTOR HANDHOLE
<b>FA</b>	FOUNDATION TO BE ABANDONED
<b>IS</b>	INSTALL SIGN ON SIGNAL MAST ARM
<b>NS</b>	NO SLIP BASE ON STANDARD
<b>PEC</b>	PHOTOELECTRIC CONTROL
<b>PEU</b>	PHOTOELECTRIC UNIT
<b>RC</b>	EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR
<b>RE</b>	REMOVE ELECTROLIER, FUSES AND BALLAST. TAPE ENDS OF CONDUCTORS
<b>RL</b>	RELOCATE EQUIPMENT
<b>RR</b>	REMOVE AND REUSE EQUIPMENT
<b>RS</b>	REMOVE AND SALVAGE EQUIPMENT
<b>SC</b>	SPLICE NEW TO EXISTING CONDUCTORS
<b>SD</b>	SERVICE DISCONNECT
<b>TSP</b>	TELEPHONE SERVICE POINT

**ABBREVIATIONS**

AC+	UNDERGROUNDED CONDUCTOR	MAT	MAST ARM MOUNTING TOP ATTACHMENT
APS	ACCESSIBLE PEDESTRIAN SIGNAL	MAS	MAST ARM MOUNTING SIDE ATTACHMENT
Batt	BATTERY	MBPS	MANUAL BYPASS SWITCH
BBS	BATTERY BACKUP SYSTEM	M/M	MULTIPLE TO MULTIPLE TRANSFORMER
BC	BOLT CIRCLE	Mtg	MOUNTING
BIK	BLACK	MV	MERCURY VAPOR LIGHTING FIXTURE
BP	BYPASS	MVDS	MICROWAVE VEHICLE DETECTION SYSTEM
BPB	BICYCLE PUSH BUTTON	N	NEUTRAL (GROUNDED CONDUCTOR)
C	CONDUIT	NB	NEUTRAL BUS
CB	CIRCUIT BREAKER	NC	NORMALLY CLOSE
CCTV	CLOSED CIRCUIT TELEVISION	NO	NORMALLY OPEN
Ckt	CIRCUIT	P	CIRCUIT BREAKER'S POLE
CMS	CHANGEABLE MESSAGE SIGN	PB	PULL BOX
Ctid	CALTRANS IDENTIFICATION	PBA	PUSH BUTTON ASSEMBLY
Comm	COMMUNICATION	PEC	PHOTOELECTRIC CONTROL
Cntl	CONTROL	Ped	PEDESTRIAN
DF	DEPARTMENT-FURNISHED	PEU	PHOTOELECTRIC UNIT
DLC	LOOP DETECTOR LEAD-IN CABLE	PT	CONDUIT WITH PULL TAPE
EMS	EXTINGUISHABLE MESSAGE SIGN	PTR	POWER TRANSFER RELAY
EVUC	EMERGENCY VEHICLE UNIT CABLE	RE	RELOCATED EQUIPMENT
EVUD	EMERGENCY VEHICLE UNIT DETECTOR	RM	RAMP METERING
FB	FLASHING BEACON	RWIS	ROADSIDE WEATHER INFORMATION SYSTEM
FBCA	FLASHING BEACON CONTROL ASSEMBLY	SB	SLIP BASE
FBS	FLASHING BEACON WITH SLIP BASE	SIC	SIGNAL INTERCONNECT CABLE
FO	FIBER OPTIC	Sig	SIGNAL
G	EQUIPMENT GROUNDING CONDUCTOR	SMA	SIGNAL MAST ARM
GB	GROUND BUS	SNS	STREET NAME SIGN
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SP	SERVICE POINT
Grn	GREEN	TB	TERMINAL BOARD
HAR	HIGHWAY ADVISORY RADIO	TDC	TELEPHONE DEMARCATION CABINET
Hex	HEXAGONAL	Temp	TEMPERATURE
HPS	HIGH PRESSURE SODIUM	TMS	TRAFFIC MONITORING STATION
IISNS	INTERNALLY ILLUMINATED STREET NAME SIGN	TOS	TRAFFIC OPERATIONS SYSTEM
ISL	INDUCTION SIGN LIGHTING	UPS	UNINTERRUPTABLE POWER SUPPLY
LED	LIGHT EMITTING DIODE	UPSC	UNINTERRUPTABLE POWER SUPPLY CONTROLLER
LMA	LUMINAIRE MAST ARM	Veh	VEHICLE
LPS	LOW PRESSURE SODIUM	VIVDS	VIDEO IMAGE VEHICLE DETECTION SYSTEM
Ltg	LIGHTING	Wht	WHITE
Lum	LUMINAIRE	WIM	WEIGH-IN-MOTION
M	METERED	Xfmr	TRANSFORMER

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	3074		8	11

*Theresa Gabriel*  
REGISTERED ELECTRICAL ENGINEER

October 30, 2015  
PLANS APPROVAL DATE

Theresa  
Aziz Gabriel  
No. E15129  
Exp. 6-30-16  
ELECTRICAL  
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 5-2-16

**SOFFIT AND WALL-MOUNTED LUMINAIRES**

- PENDANT SOFFIT LUMINAIRE, 70 W HPS UNLESS OTHERWISE SPECIFIED
- FLUSH-MOUNTED SOFFIT LUMINAIRE, 70 W HPS UNLESS OTHERWISE SPECIFIED
- WALL-MOUNTED LUMINAIRE, 70 W HPS UNLESS OTHERWISE SPECIFIED
- EXISTING SOFFIT OR WALL-MOUNTED LUMINAIRE TO REMAIN UNMODIFIED
- EXISTING SOFFIT OR WALL-MOUNTED LUMINAIRE TO BE MODIFIED AS SPECIFIED

**NOTE:**  
Arrow indicates "street side" of luminaire.

COMMONLY USED SYMBOLS FOR UNITED STATES CUSTOMARY UNITS OF MEASUREMENT:

SYMBOL	DEFINITIONS
Ω	OHMS
min	MINUTE
s	SECOND
bps	BITS PER SECOND
Bps	BYTES PER SECOND
A	AMPERE
V	VOLT
V(dc)	VOLT (DIRECT CURRENT)
V(ac)	VOLT (ALTERNATING CURRENT)
FC	FOOT - CANDLE
W	WATTS
VA	VOLT-AMPERE
M	MEGA
k	KILO
m	MILLI
μ	MICRO
P	PICO
Hz	HERTZ

**MISCELLANEOUS ELECTROLIERS**

NEW	EXISTING	
		LUMINAIRE ON WOOD POLE
		NON-STANDARD ELECTROLIER (SEE PROJECT LEGEND)
		CITY ELECTROLIER
		ELECTROLIER FOUNDATION (FUTURE INSTALLATION)

- NOTES:**
- LED luminaires shall be 235 W when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. LED luminaires shall be 165 W when installed on other type standards or poles, unless otherwise specified.
  - Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.

**STANDARD ELECTROLIER**

NEW	EXISTING	STANDARD TYPE
		15
		15D
		15 STRUCTURE
		15D STRUCTURE
		21
		21D
		21 STRUCTURE
		21D STRUCTURE
		30
		31
		32

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)**

NO SCALE

RSP ES-1A DATED OCTOBER 30, 2015 SUPERSEDES RSP ES-1A DATED JULY 19, 2013 AND STANDARD PLAN ES-1A DATED MAY 20, 2011 - PAGE 425 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP ES-1A**

2010 REVISED STANDARD PLAN RSP ES-1A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	3074		9	11

*Theresa Gabriel*  
REGISTERED ELECTRICAL ENGINEER

October 30, 2015  
PLANS APPROVAL DATE

Theresa Aziz Gabriel  
No. E15129  
Exp. 6-30-16  
ELECTRICAL  
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 5-2-16

**CONDUIT**

**SIGNAL EQUIPMENT**

NEW	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 ATTACHED TO THE STRUCTURE OR SERVICE POLE

NEW	EXISTING	
		PEDESTRIAN SIGNAL HEAD
		PUSH BUTTON ASSEMBLY POST
		PEDESTRIAN BARRICADE
		VEHICLE SIGNAL HEAD (WITH BACKPLATE AND 3-SECTIONS: RED, YELLOW AND GREEN)
		VEHICLE SIGNAL HEAD WITH ANGLE VISOR
		MODIFICATIONS OF BASIC SYMBOL: "L" INDICATES ALL NON-ARROW SECTIONS LOUVERED "LG" INDICATES LOUVERED GREEN SECTION ONLY "PV" INDICATES ALL 12" SECTIONS PROGRAMMED VISIBILITY "8" INDICATES ALL 8" SECTIONS (ONLY WHEN SPECIFIED)

**SIGNAL EQUIPMENT Cont**

NEW	EXISTING	
		GUARD POST
		TYPE 1 STANDARD WITH RAMP METERING SIGN
		OPTICAL DETECTOR FOR THE EMERGENCY VEHICLE DETECTION

**SERVICE EQUIPMENT**

NEW	EXISTING	
---OH---	---oh---	OVERHEAD LINES
		WOOD POLE, "U" INDICATES UTILITY OWNED
		POLE GUY WITH ANCHOR
		UTILITY TRANSFORMER - GROUND MOUNTED
		SERVICE EQUIPMENT ENCLOSURE TYPE. DOOR INDICATES FRONT OF ENCLOSURE
		TELEPHONE DEMARCATION CABINET

**POLE-MOUNTED SERVICE DESIGNATION**

	TYPE H SERVICE, 28'-10"	TYPE OF INSTALLATION AND POLE HEIGHT ABOVE GRADE
--	-------------------------	--

**FLASHING BEACON**

NEW	EXISTING	
		FLASHING BEACON (ONE VEHICLE SIGNAL HEAD WITH BACKPLATE AND VISOR) "R" INDICATES RED INDICATION, "Y" INDICATES YELLOW INDICATION
		FLASHING BEACON WITH TYPE 15-FBS STANDARD AND A SIGN.
		FLASHING BEACON WITH TYPES 9, 9A OR 9B SIGN UNLESS OTHERWISE SPECIFIED OR INDICATED

		VEHICLE SIGNAL HEAD CONSISTING OF RED, YELLOW AND GREEN LEFT ARROW SECTIONS
		VEHICLE SIGNAL HEAD CONSISTING OF RED AND YELLOW SECTIONS WITH AN UP GREEN ARROW SECTION
		VEHICLE SIGNAL HEAD (5 SECTION) CONSISTING OF RED, YELLOW AND GREEN SECTIONS WITH YELLOW AND GREEN RIGHT ARROW SECTIONS
		TYPE 15TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		TYPE 21TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		STANDARD WITH LUMINAIRE AND SIGNAL MAST ARMS AND ATTACHED VEHICLE SIGNAL HEADS
		TYPE 1 STANDARD WITH ATTACHED VEHICLE SIGNAL HEADS
		STANDARD WITH A SIGNAL MAST ARM, ATTACHED VEHICLE SIGNAL HEADS AND INTERNALLY ILLUMINATED STREET NAME SIGN
		CONTROLLER ASSEMBLY. DOOR INDICATES FRONT OF CABINET

**NOTES:**

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

**ILLUMINATED OVERHEAD SIGN**

NEW	EXISTING	
		SINGLE POST, SINGLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, DOUBLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, SINGLE ILLUMINATED SIGN, FULL CANTILEVER
		DOUBLE POST, SINGLE ILLUMINATED SIGN
		SINGLE ILLUMINATED SIGN MOUNTED ON STRUCTURE
		DOUBLE POST, SINGLE ILLUMINATED SIGN WITH ELECTROLIER

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS  
(LEGEND AND ABBREVIATIONS)**

NO SCALE

RSP ES-1B DATED OCTOBER 30, 2015 SUPERSEDES RSP ES-1B DATED JULY 19, 2013 AND STANDARD PLAN ES-1B DATED MAY 20, 2011 - PAGE 426 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP ES-1B**

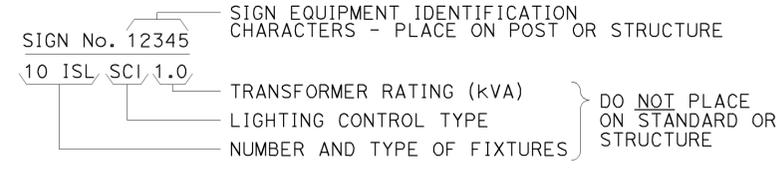
2010 REVISED STANDARD PLAN RSP ES-1B



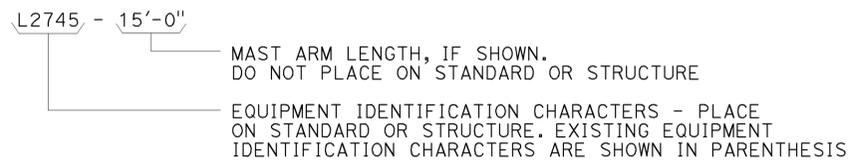
TO ACCOMPANY PLANS DATED 5-2-16

### EQUIPMENT IDENTIFICATION

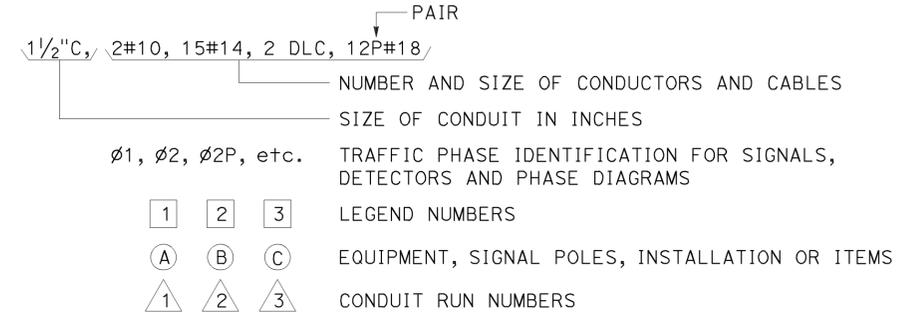
#### ILLUMINATED SIGN IDENTIFICATION:



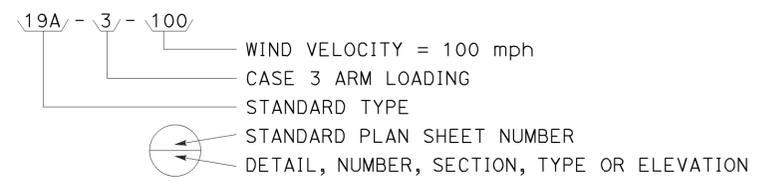
#### ELECTROLIER OR EQUIPMENT IDENTIFICATION:



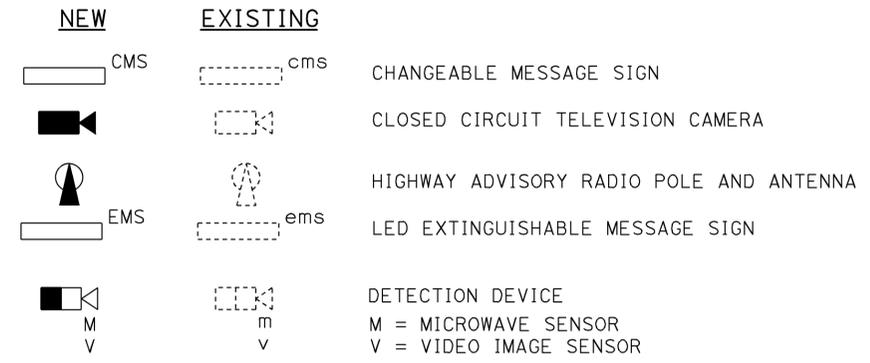
#### CONDUIT AND CONDUCTOR IDENTIFICATION:



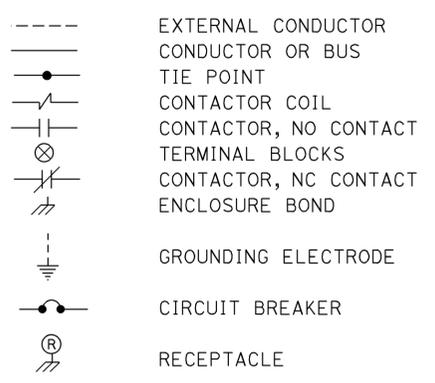
#### SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



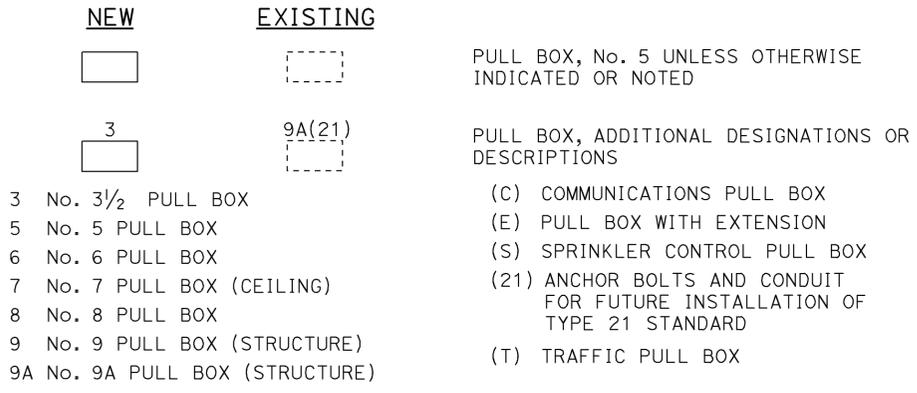
### MISCELLANEOUS EQUIPMENT



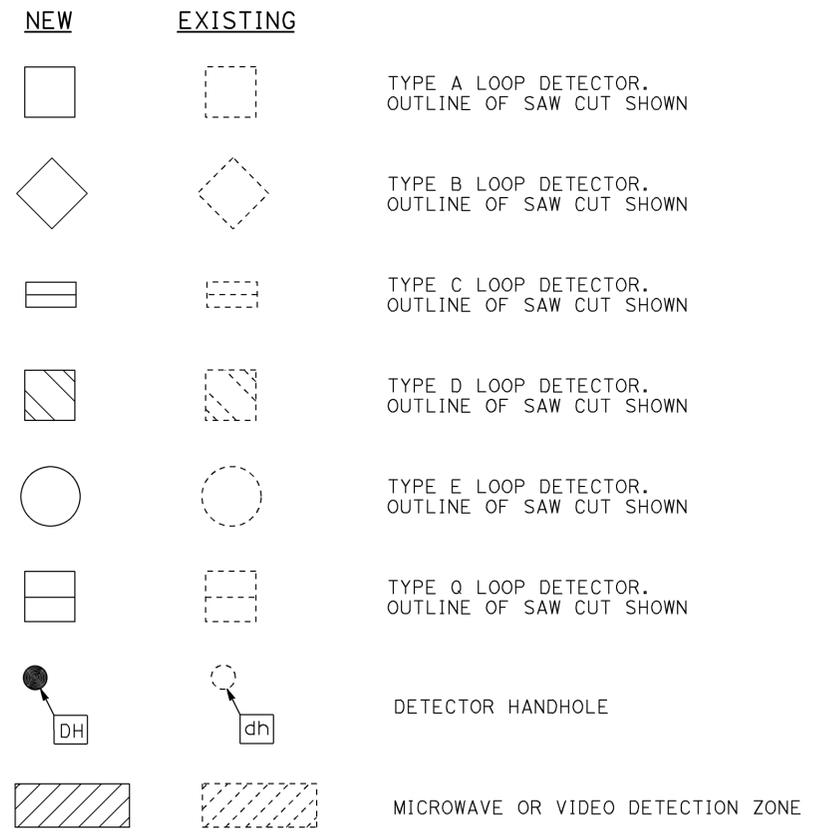
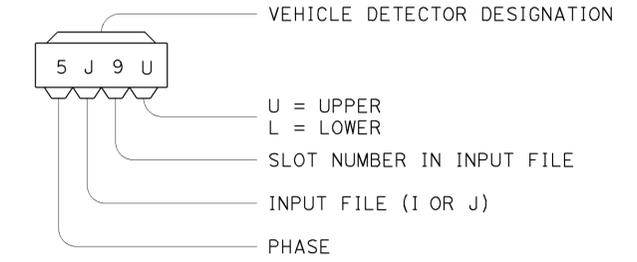
### WIRING DIAGRAM LEGEND



### PULL BOXES



### VEHICLE DETECTORS



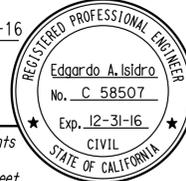
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

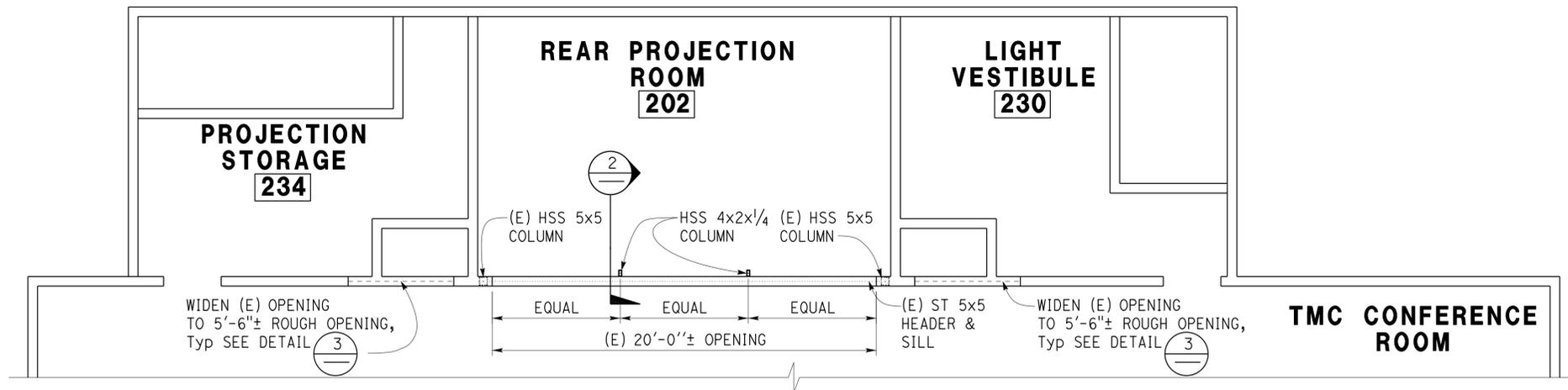
## ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1C DATED APRIL 15, 2016 SUPERSEDES RSP ES-1C DATED OCTOBER 30, 2015 AND RSP ES-1C DATED JULY 19, 2013 AND STANDARD PLAN ES-1C DATED MAY 20, 2011 - PAGE 427 OF THE STANDARD PLANS BOOK DATED 2010.

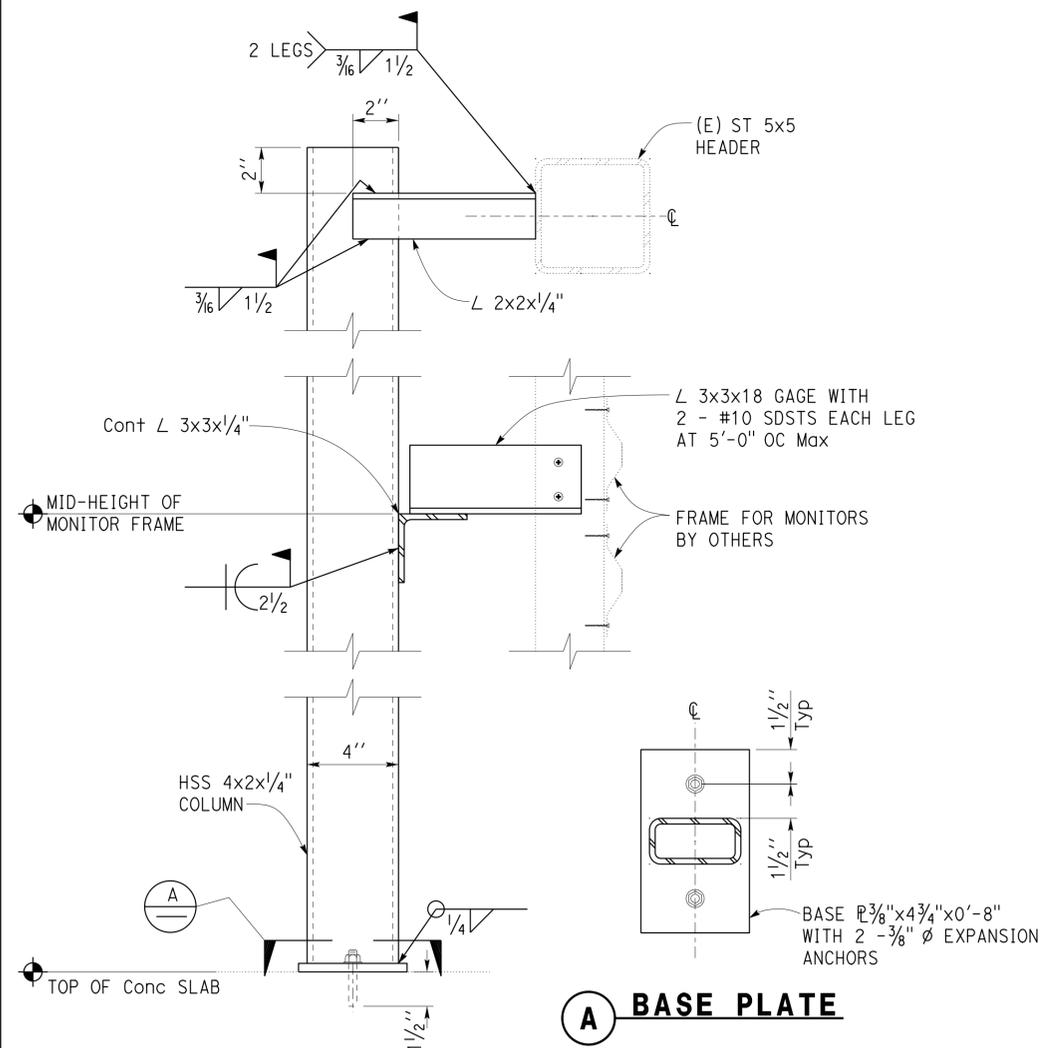
2010 REVISED STANDARD PLAN RSP ES-1C

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	3074		11	11
 REGISTERED CIVIL ENGINEER			02-12-16	DATE	
5-2-16			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.					
					

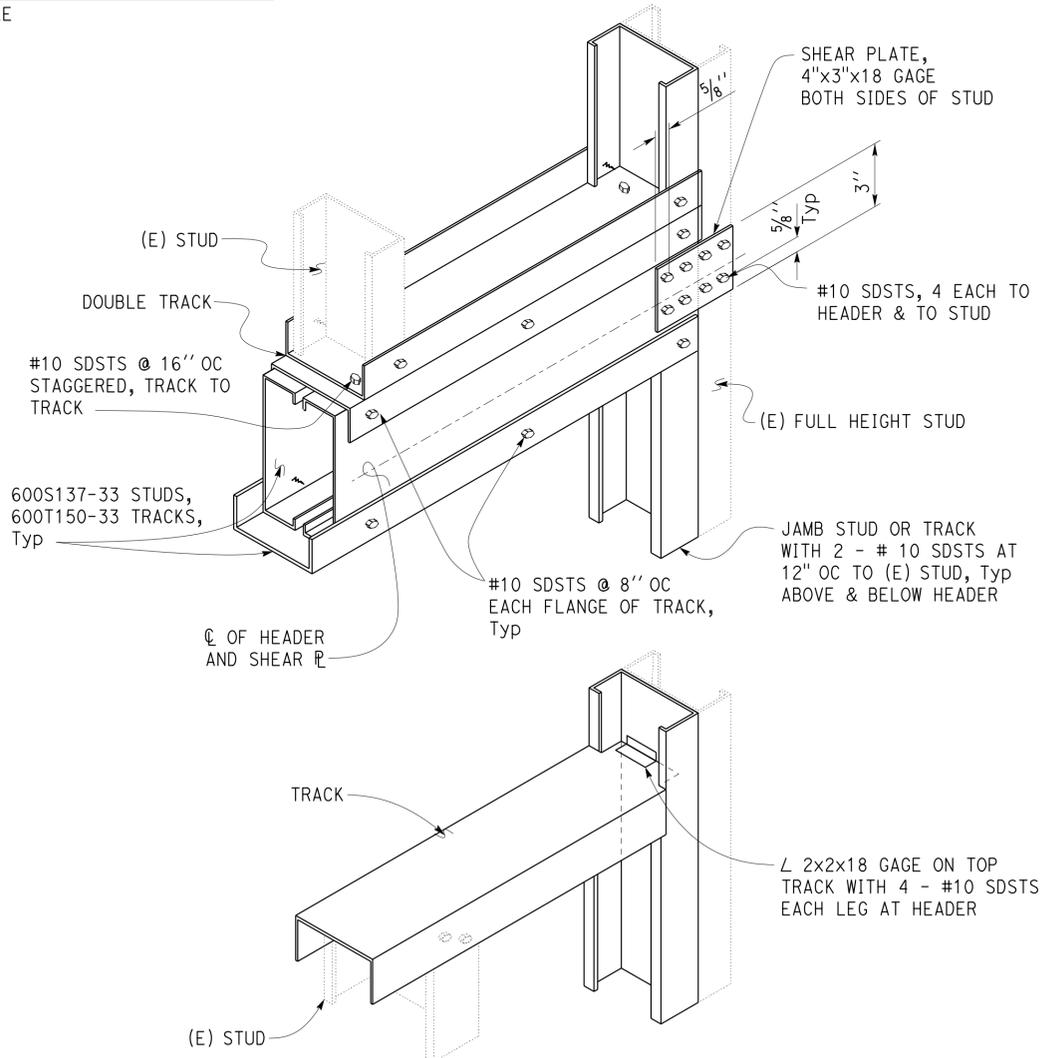


**1 PARTIAL SECOND FLOOR PLAN**  
NO SCALE

PROJECT DESIGN CRITERIA	
The building work on this project has been designed to conform to the 2013 California Building Code (2012 IBC).	
LOADS	
SEISMIC:	Risk Category = IV
	Importance Factor I = 1.5
	Site Soil Class = C
	$S_S = 0.4978$ $S_{DS} = 0.398$
	$S_I = 0.2482$ $S_{DI} = 0.257$
	Seismic Design Category = D
MATERIALS	
STRUCTURAL STEEL:	(Allowable Strength Design) :
Channels, Angles & Misc. Shapes	$F_y = 36$ ksi
Plates	$F_y = 36$ ksi
Hollow Structural Section (HSS)	$F_y = 46$ ksi
COLD FORMED STEEL:	$F_y = 33$ ksi



**2 COLUMN SUPPORT DETAIL**  
3" = 1'-0"



**3 HEADER DETAIL**  
NO SCALE

 DESIGN ENGINEER	DESIGN BY Edgardo Isidro	CHECKED Thomas Tong	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>ARCHITECTURAL AND STRUCTURAL DESIGN</b>	BRIDGE No.	<b>VIDEO DISPLAY AT RTMC</b> TMC CONFERENCE ROOM PLAN & DETAILS	SHEET
	DETAILS BY Daniel Harakh	CHECKED Edgardo Isidro			POST MILE		OF
	QUANTITIES BY	CHECKED	UNIT: 3581 CONTRACT No.: 03-4F410 PROJECT NUMBER & PHASE: 03140001601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		
TAEWW Imperial - CCSC Rev. 02/13		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		02-12-16	

31-MAY-2016 14:49