

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5506		1	78



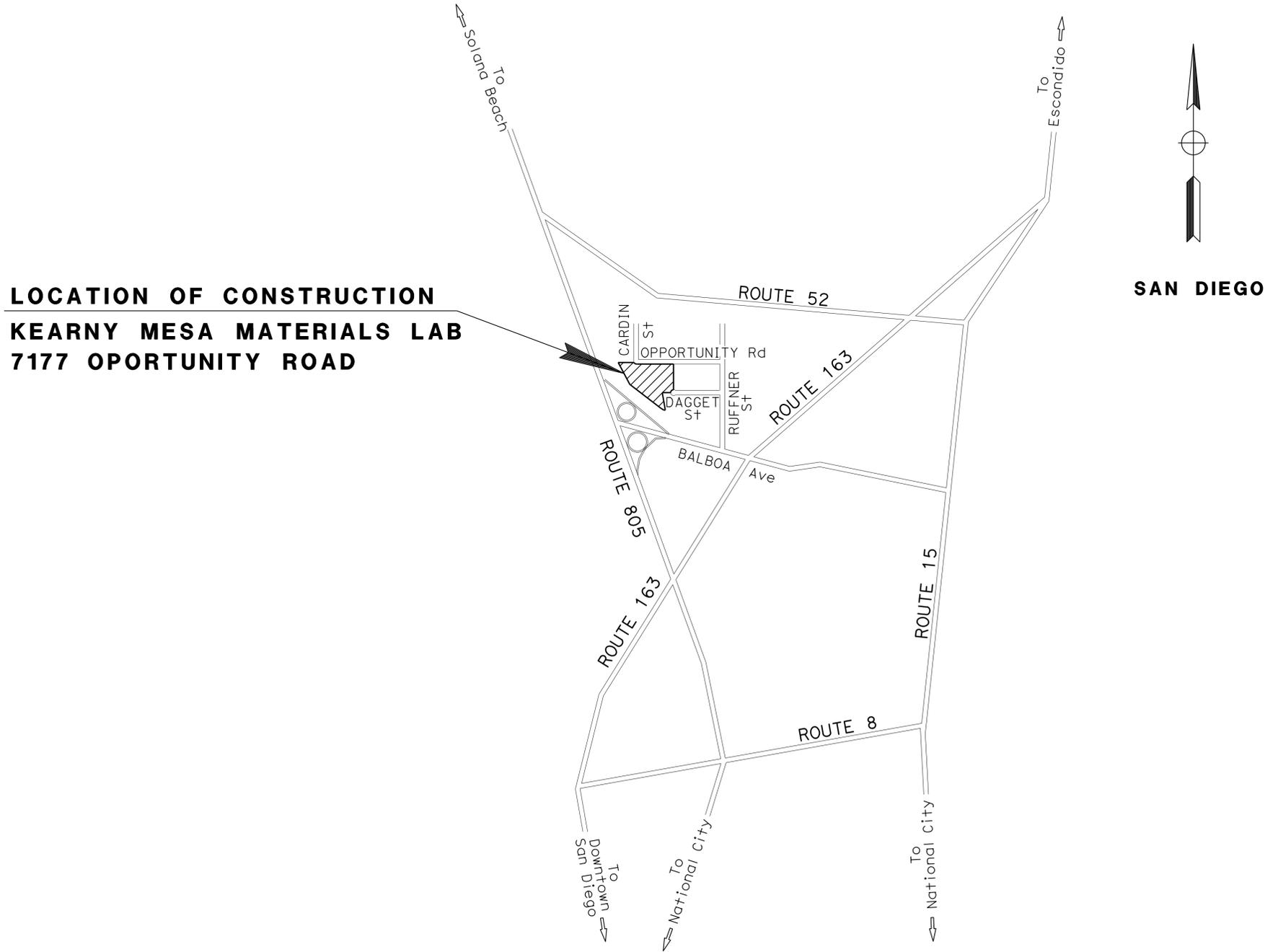
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR BUILDING CONSTRUCTION
IN SAN DIEGO COUNTY
IN SAN DIEGO
AT THE KEARNY MESA MATERIALS LAB

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	LAYOUT
3	REVISED STANDARD PLAN
STRUCTURE PLANS	
4-27	ARCHITECTURAL PLANS
28-54	STRUCTURAL PLANS
55-69	MECHANICAL PLANS
70-78	ELECTRICAL PLANS

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

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID 1100000345 Reviewed by: <i>[Signature]</i> Date: 04-11-2013	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>[Signature]</i> FRANCIS SOLTICH Approval date: 03-26-2013 CSFM No. 01-37-11-0062
---	--

E.C. ITO 05-03-13
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER



May 6, 2013
 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.	11-287704
PROJECT ID	1100000345

PROJECT MANAGER	BRUCE LAMBERT
DESIGN ENGINEER	EMI ITO

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

05-09-13 13:15:45 DATE PLOTTED => 13-JUN-2013 TIME PLOTTED => 15:45

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE

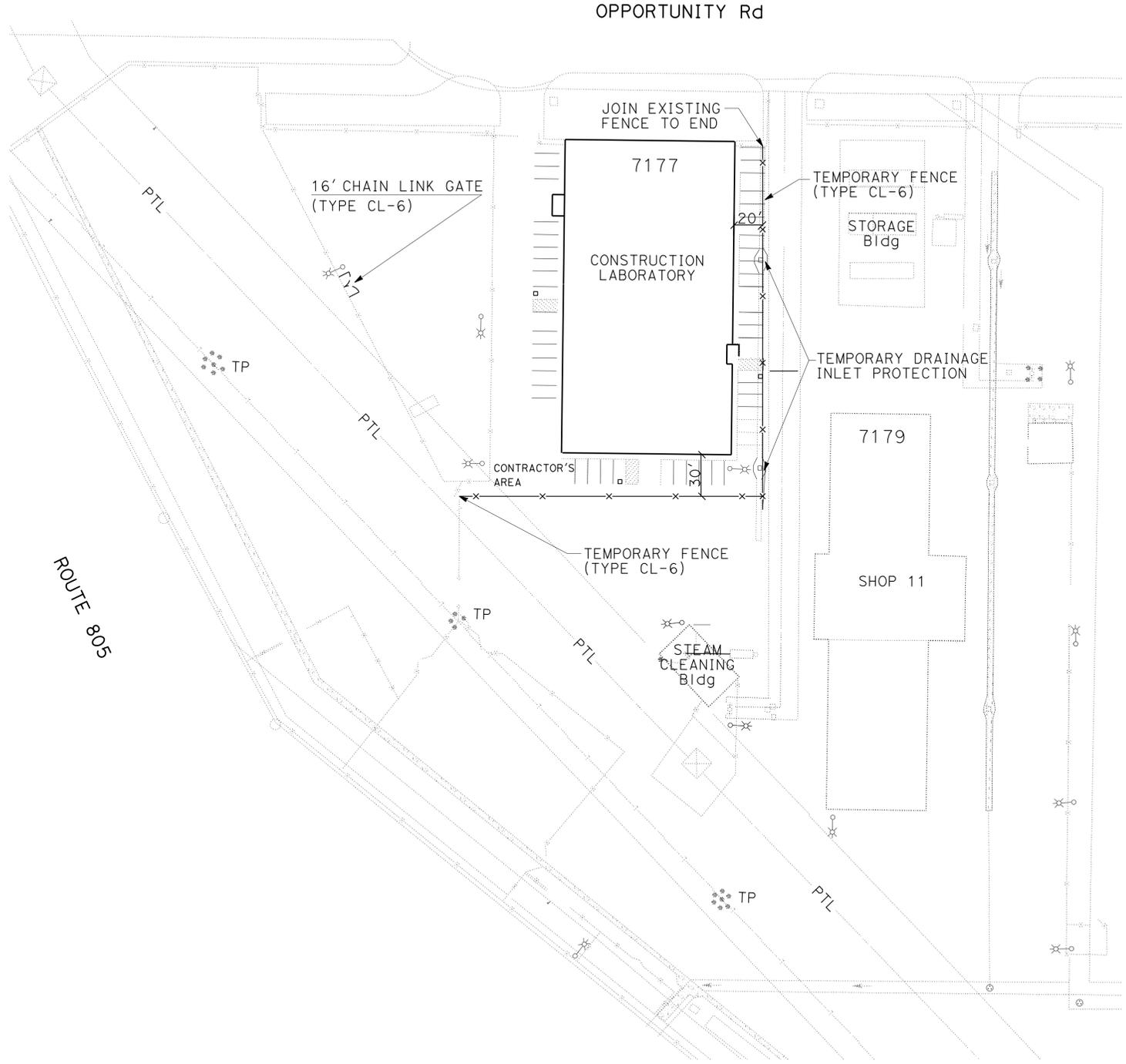
FUNCTIONAL SUPERVISOR
 BRUCE LAMBERT

CALCULATED-DESIGNED BY
 CHECKED BY

EMI ITO
 ALEX GARCIA

REVISED BY
 DATE REVISED

LEGEND:
 PTL - POWER TRANSMISSION LINES



SAN DIEGO



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5506		2	78

E. C. ITO 05-03-13
 REGISTERED CIVIL ENGINEER DATE

05-06-13
 PLANS APPROVAL DATE

EMI C. ITO
 No. 42309
 Exp. 03-31-14
 CIVIL

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

TEMPORARY FENCE (TYPE CL-6)

SHEET NUMBER	LF
L-1	460
TOTAL	460

TEMPORARY DRAINAGE INLET PROTECTION

SHEET NUMBER	EA
L-1	2
TOTAL	2

16' CHAIN LINK GATE (TYPE CL-6)

SHEET NUMBER	EA
L-1	1
TOTAL	1

LAYOUT

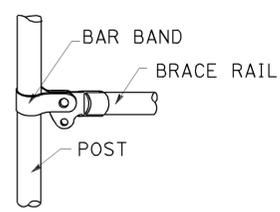
L-1

SCALE 1" = 50'

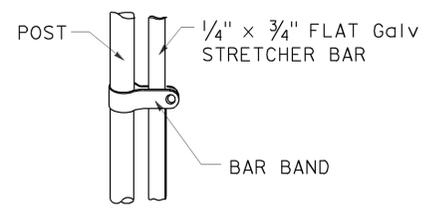
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5506		3	78

Glenn DeCou
 REGISTERED CIVIL ENGINEER
 October 19, 2012
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

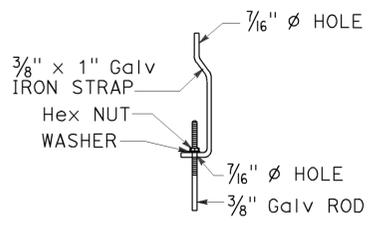
REGISTERED PROFESSIONAL ENGINEER
 Glenn DeCou
 No. C34547
 Exp. 9-30-13
 CIVIL
 STATE OF CALIFORNIA



BRACE RAIL



STRETCHER BAR

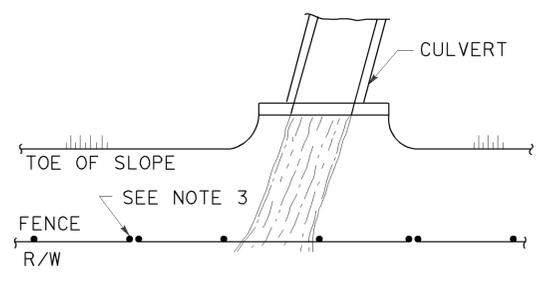


TRUSS TIGHTENER

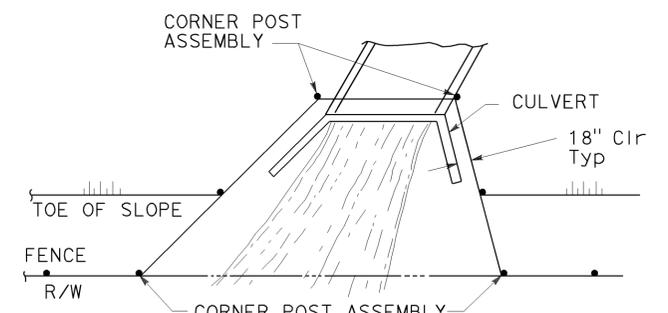
NOTES:

1. All material for abutment connection to be galvanized.
2. The chain link fabric shall be replaced by barbed wire strands at 12" maximum centers between the double posts.
3. When the width of the culvert makes it necessary to anchor a post to the top of the culvert, a cast iron shoe or other device approved by the Engineer shall be used.
4. Fencing over stream and around headwall may also use Barbed Wire or Wire Mesh fencing with either wood post or steel post installation.
5. See Standard Plan A85 for Chain Link fence dimensions. See Standard Plan A86 for Barbed Wire and Wire Mesh fence dimensions and for wood post and steel post installation.

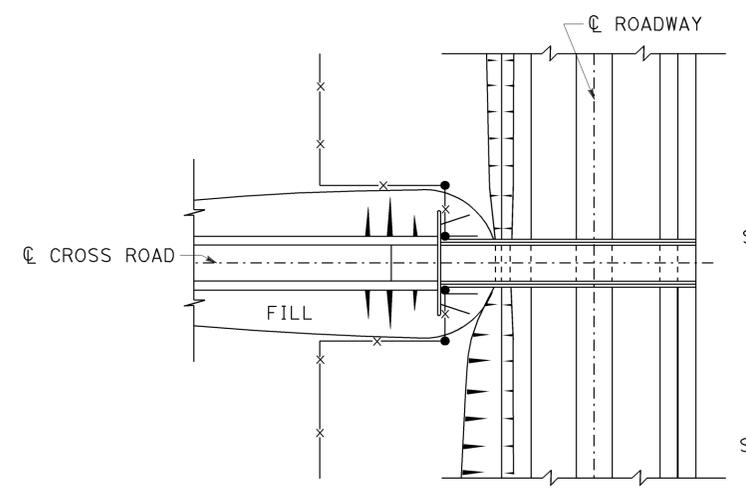
TO ACCOMPANY PLANS DATED 05-06-13



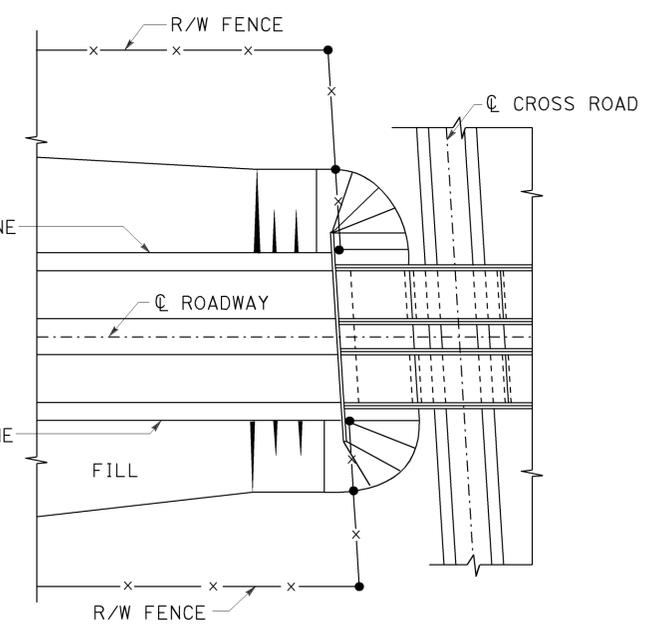
PLAN



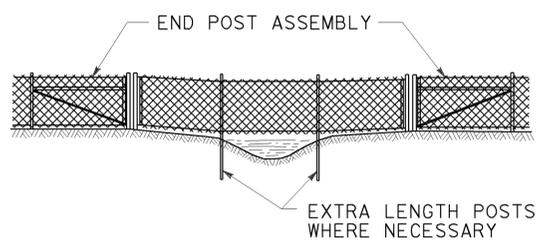
PLAN



PLAN OF ROADWAY - OVERCROSSING

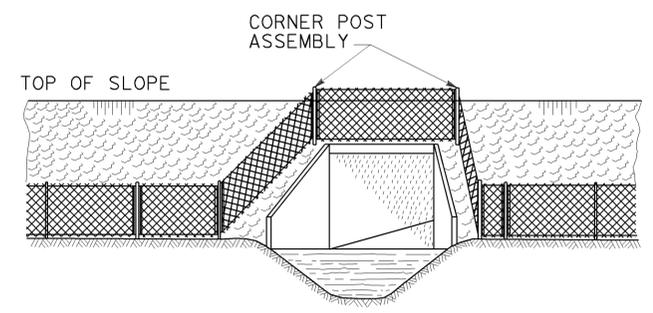


PLAN OF ROADWAY - UNDERCROSSING



ELEVATION

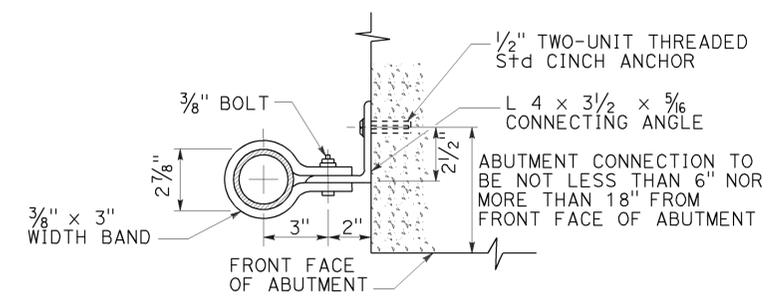
INSTALLATION OVER STREAM



ELEVATION

INSTALLATION AROUND HEADWALL

See Note 4



ABUTMENT CONNECTION

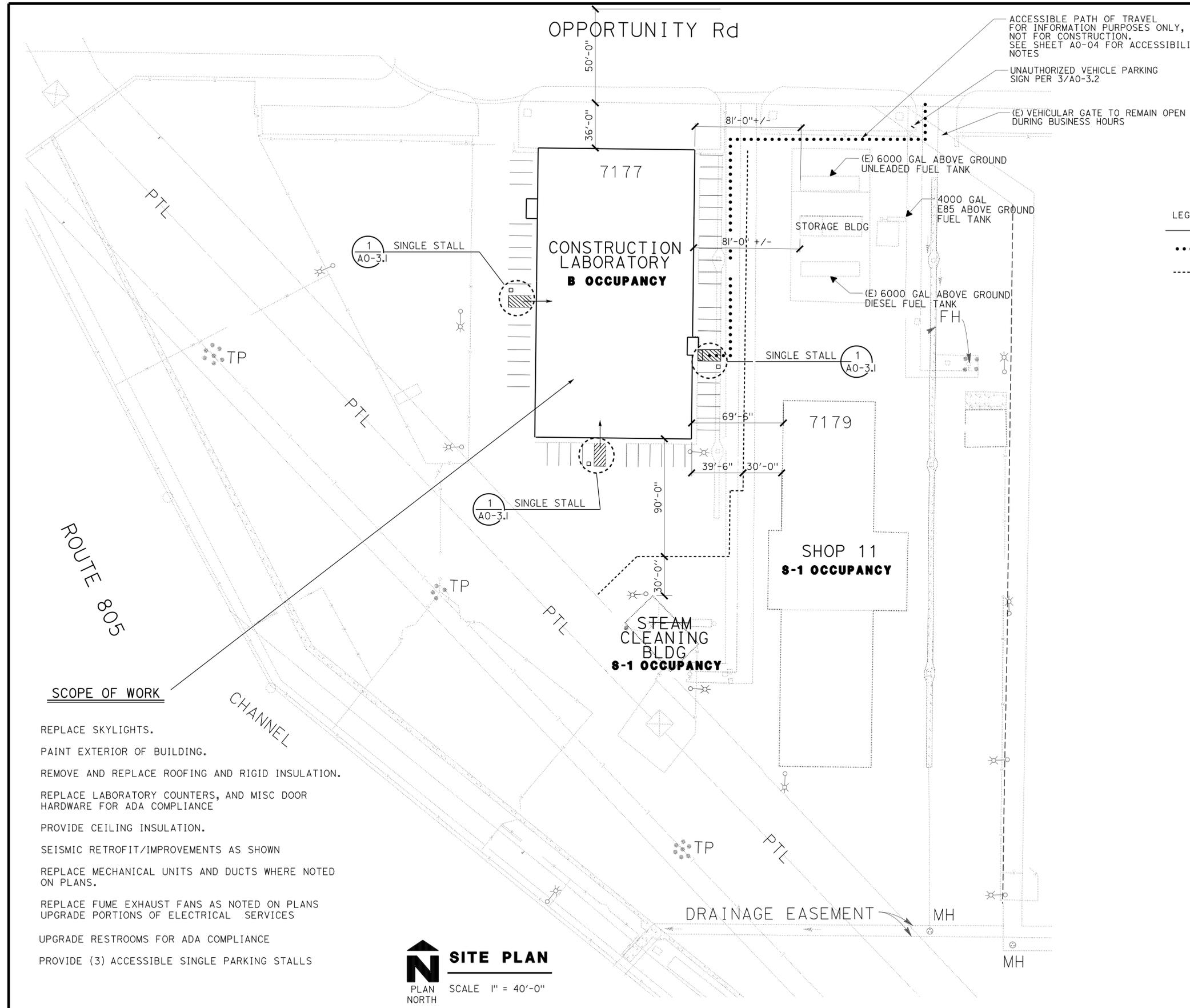
TYPICAL INSTALLATION AT BRIDGES

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
CHAIN LINK FENCE DETAILS
 NO SCALE

RSP A85B DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A85B DATED MAY 20, 2011 - PAGE 114 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A85B

2010 REVISED STANDARD PLAN RSP A85B



SITE PLAN
 PLAN NORTH
 SCALE 1" = 40'-0"

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		4	78

ANTHONY V. MANANSALA
 LICENSED ARCHITECT
 No. C-32260
 Exp. 04/30/15
 STATE OF CALIFORNIA

05-06-13
 PLANS APPROVAL DATE

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ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID 1100000345 Reviewed by: <i>[Signature]</i> Date: 04-11-2013	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>[Signature]</i> FRANCIS SOLICH Approval date: 03-26-2013 CSFM No. 01-37-11-0062
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BUILDING DATA

THE BUILDING WORK ON THIS PROJECT HAS BEEN DESIGNED TO CONFORM TO THE 2010 TITLE 24 CALIFORNIA BUILDING CODE.

EXISTING MATERIALS LABORATORY BUILDING				
ACTUAL BUILDING AREA	BASIC ALLOWABLE AREA	TOTAL ALLOWABLE AREA	CONSTRUCTION TYPE	OCCUPANCY GROUP
LAB BUILDING 1ST FLOOR 26,520 SQ FT	23,000 SQ FT (PER CBC SECT 503 TABLE 503)	40,250 SQ FT	II-B	B
MEZZANINES 134 SQ FT				
STORAGE UNITS 200 SQ FT				
26,854 TOTAL				

- FRONTAGE AREA INCREASE FACTOR (PER SECTIONS 506.2 & 506.2.1)
 $I_f = (F/P - 0.25) W/30 = (1-0.25) 30/30 = 0.75$
- ALLOWABLE AREA INCREASE: 23,000 SQ FT X 0.75 = 17,250 SQ FT
- TOTAL ALLOWABLE AREA: 23,000 SQ FT + 17,250 SQ FT = 40,250 SQ FT

BUILDING INFORMATION

NUMBER OF STORIES: 1
 OCCUPANT LOAD: 250
 BUILDING HEIGHT: 17'-0" TOP OF PARAPET
 FIRE SPRINKLER SYSTEM: NONE
 FIRE ALARM SYSTEM: NONE
 OTHER FIRE PROTECTION: NONE
 SMOKE CONTROL SYSTEM: NONE

LIST OF 2010 CALIFORNIA CODE OF REGULATION (CCR)

- 2010 BUILDING ADMINISTRATIVE CODE : PART 1, TITLE 24 CCR
- 2010 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
- 2010 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
- 2010 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
- 2010 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
- 2010 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, CCR
- 2010 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, CCR
- TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
- 2010 CALIFORNIA ENERGY CODE PART 6
- 2010 AMERICANS WITH DISABILITIES ACT STANDARDS
- 2008 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24)
- 2010 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24, CCR

RE Travis
 DESIGN SUPERVISOR
 Donald E. Alsey
 DESIGN ARCHITECT

DESIGNER Anthony V. Manansala
 DRAWN BY Anthony V. Manansala

CHECKED BY Donald E. Alsey
 STRUCTURAL REVIEW Donald E. Alsey

SHEET LEGEND
 A-I ARCHITECTURAL ST-I STRUCTURAL
 M-I MECHANICAL EE-I ELECTRICAL
 W-I WATER SUPPLY SS-I SANITARY

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO. 57M5506
 POST MILE 21.8

KEARNY MESA MATERIALS LAB SEISMIC UPGRADE
 GENERAL PLAN

SHEET OF
GP

SHEET INDEX

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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ARCHITECTURAL	STRUCTURAL	MECHANICAL	ELECTRICAL
GP GENERAL PLAN A0-1 SHEET INDEX A0-2 ABBREVIATIONS, NOTES, SYMBOLS A0-3.1 ACCESSIBILITY STANDARD DETAILS A0-3.2 ACCESSIBILITY STANDARD DETAILS A0-3.3 ACCESSIBILITY STANDARD DETAILS A0-3.4 ACCESSIBILITY STANDARD DETAILS A0-3.5 ACCESSIBILITY STANDARD DETAILS A0-4 ACCESSIBILITY NOTES A1-1A FLOOR PLAN A1-1B PARTIAL FLOOR PLAN A1-1C DOOR SCHEDULE A1-2 EXTERIOR ELEVATIONS A1-3 ROOF PLAN A1-4 REFLECTED CEILING PLAN A1-5 RESTROOM REMOVAL PLAN A1-6 RESTROOM MODIFIED PLAN A1-7 RESTROOM INTERIOR ELEVATIONS A2-1 ROOF DETAILS A2-2 MISCELLANEOUS DETAILS A2-3 LAB COUNTER ELEVATIONS AND SIGNAGE DETAILS A2-4 MISCELLANEOUS CEILING DETAILS A2-5 FINISH SCHEDULE A2-6 LAB COUNTER ELEVATIONS	ST-1 LEGEND ST-1A WOOD FRAMING STANDARD-NOTES ST-1B WOOD FRAMING STANDARD-DETAILS ST-1C WOOD FRAMING STANDARD-DETAILS ST-2 CONCRETE STANDARD ST1-0 DESIGN CRITERIA AND DETAIL NOTES ST1-1 FOUNDATION PLAN ST1-2 ROOF FRAMING PLAN ST1-3 PARTIAL ROOF FRAMING PLAN ST1-4 ROOF NAILING SCHEDULE ST1-5 TILT-UP WALL ELEVATIONS ST1-6 TILT-UP WALL ELEVATIONS ST1-7 WALL & FOOTING RETROFIT DETAILS ST1-8 WALL & FOOTING RETROFIT DETAILS ST1-9 PURLIN BUILDUP DETAILS ST1-10 PURLIN TIE DETAILS ST1-11 PURLIN TIE DETAILS ST1-12 GLULAM BEAM CONNECTION DETAILS ST1-13 ROOF RETROFIT DETAILS ST1-14 ROOF RETROFIT DETAILS ST1-15 ROOF RETROFIT DETAILS ST1-16 PURLIN TIE DETAILS ST1-17 PURLIN TIE DETAILS ST1-18 PARTIAL PLANS ST1-19 MEZZANINE SHEAR WALL LAYOUT ST1-20 MEZZANINE SHEARWALL SCHEDULE AND FOOTING DETAILS ST1-21 MEZZANINE FLOOR PLAN AND DETAILS	M-00 TITLE 24 M-0 MECHANICAL LEGEND M-1 EXISTING ROOF PARTIAL PLAN NO. 1 M-2 EXISTING ROOF PARTIAL PLAN NO. 2 M-3 MODIFIED ROOF PARTIAL PLAN NO. 1 M-4 MODIFIED ROOF PARTIAL PLAN NO. 2 M-5 EXISTING HVAC PARTIAL PLAN NO. 1 M-6 EXISTING HVAC PARTIAL PLAN NO. 2 M-7 REMODELED HVAC PARTIAL PLAN NO. 1 M-8 REMODELED HVAC PARTIAL PLAN NO. 2 M-9 PARTIAL PLUMBING PLAN M-10 DUST COLLECTION SYSTEM UPGRADE M-11 EQUIPMENT SCHEDULE M-12 HVAC DETAILS - 1 M-13 HVAC DETAILS - 2	EE-1 PARTIAL ELECTRICAL SITE PLAN AND LEGEND EE-2 EXISTING ROOF PLAN EE-3 MODIFIED ROOF PLAN EE-4 EXISTING DUST COLLECTOR AND DAMPER MOTORS PLAN EE-5 NEW DUST COLLECTOR AND EXISTING DAMPER MOTORS PLAN EE-6 NEW DUST COLLECTOR MOTOR AND EXISTING DAMPER MOTORS CONTROL SCHEMATIC EE-7 EXISTING AND MODIFIED POWER DISTRIBUTION DIAGRAM EE-8 ELECTRICAL PANEL AND THERMOSTAT PLAN EE-9 ENLARGED PLAN

1/03/2013
 LICENSED ARCHITECT DATE

LICENSED ARCHITECT
ANTHONY V. MANANSALA
 No. C-32260
 Exp. 04/30/15
 STATE OF CALIFORNIA

05-06-13
PLANS APPROVAL DATE

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ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA <div style="border: 1px solid black; padding: 2px; text-align: center; margin: 5px auto;"> PROJECT ID 1100000345 </div> Reviewed by: Date: 04-11-2013	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: FRANCIS SOLICH Approval date: 03-26-2013 CSFM No. 01-37-11-0062
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- GENERAL NOTES:**
- The contractor shall verify all controlling field dimensions and conditions before ordering or fabricating any material.
 - The contractor shall notify the engineer in writing of any discrepancies between these plans and actual measurements or conditions.

DESIGN SUPERVISOR	DESIGNER Anthony V. Manansala	CHECKED BY Donald E. Alsey	SHEET LEGEND A-I ARCHITECTURAL ST-I STRUCTURAL M-I MECHANICAL EE-I ELECTRICAL W-I WATER SUPPLY SS-I SANITARY	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 57M5506 POST MILE 21.8	KEARNY MESA MATERIALS LAB SEISMIC UPGRADE	SHEET A0-1
DESIGN ARCHITECT	DRAWN BY Anthony V. Manansala	STRUCTURAL REVIEW Donald E. Alsey					SHEET INDEX	
05_A0-1.dgn	17-JUN-2013 09:36		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT PROJECT NUMBER & PHASE 3582 11000003451	DISREGARD PRINTS BEARING EARLIER REVISION DATES 03-08-12	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF X X

17-JUN-2013 09:36

ARCHITECTURAL ABBREVIATIONS

&	AND	EQ	EQUAL	M	METER	S	SOUTH
L	ANGLE	EPB	ELECTRICAL PANELBOARD	MAT	MATERIAL	SC	SOLID CORE
⊕	CENTER LINE	EQUIP	EQUIPMENT	MAX	MAXIMUM	SCHED	SCHEDULE
⊙	DIAMETER OR ROUND	ESCL	ESCALATOR	MB	MACHINE BOLT	SD	SOAP DISPENSER
□	SQUARE	EWC	ELECTRIC WATER COOLER	MBR	MEMBER	SM	SQUARE METERS
d	PENNY	EXP	EXPANSION	MECH	MECHANICAL	ST	SELF TAPPING
25°	DEGREE	EXPO	EXPOSED, EXPOSURE	MEMB	MEMBRANE	SF	SQUARE FEET
AFF	ABOVE FINISH FLOOR	EXT	EXTERIOR	MET	METAL	SH	SELF
APL	ASSUMED PROPERTY LINE	EVAC	EVACUATION	MFR	MANUFACTURER	SHWR	SHOWER
A/C	AIR CONDITIONING	FD	FLOOR DRAIN	MH	MAN HOLE	SHT	SHEET
AC	ASPHALT CONCRETE	FDN	FOUNDATION	MIN	MINIMUM	SHTG	SHEATHING
AB	ANCHOR BOLT	FE	FIRE EXTINGUISHER	MIR	MIRROR	SIM	SIMILAR
ABV	ABOVE	FEC	FIRE EXTINGUISHER CABINET	MISC	MISCELLANEOUS	SMS	SHEET METAL SCREW
ACOUS	ACOUSTICAL	FG	FINISH GRADE	MW	MALLEABLE IRON	SOHD	SECTIONAL OVERHEAD DOOR
ADJ	ADJUSTABLE	FH	FIRE HYDRANT	SNR	WASHER	SNR	SANITARY NAPKIN RECEPTACLE
ALT	ALTERNATE	FHC	FIRE HOSE CABINET	MM	MILLIMETER	SPEC	SPECIFICATION
ALUM	ALUMINUM	FHMS	FLATHEAD METAL SCREW	MO	MASONRY OPENING	SPS	STRUCTURAL PLYWOOD
APA	AMERICAN PLYWOOD ASSOCIATION	FHWS	FLATHEAD WOOD SCREW	MTD	MOUNTED	SQ	SQUARE
APPROX	APPROXIMATE	FIN	FINISH	MUL	MULLION	SRRA	SAFETY ROADSIDE REST AREA
ARCH	ARCHITECTURAL, ARCHITECT	FJ	FLOOR JOIST	N	NORTH	SS	STAINLESS STEEL
ASPH	ASPHALT	FLASH	FLOOR JOIST FLASHING	NIC	NOT IN CONTRACT	SST	STATION
BD	BOARD	FLR	FLOOR	NO	NUMBER	STA	STAGGER
BIT	BITUMINOUS	FLUOR	FLUORESCENT	NOM	NOMINAL	STAG	STANDARD
BLDG	BUILDING	FOC	FACE OF CONCRETE	NTS	NOT TO SCALE	STD	STEEL
BLK	BLOCK	FOP	FACE OF PLYWOOD	OBSC	OBSCURE	STL	STORAGE
BLKG	BLOCKING	FOM	FACE OF MASONRY	OC	ON CENTER	STOR	STRUCTURAL
BM	BEAM	FOS	FACE OF STUD	OD	OUTSIDE DIAMETER	STRUC	SUSPENDED
BN	BOUNDARY NAILING	FRP	FIBERGLASS REINFORCED POLYESTER	OFF	OFFICE	SUSP	SOLID CORE WOOD DOOR
BOT	BOTTOM	FT	FEET, FOOT	OH	OPPOSITE HAND	SCW	
BR	BRIDGE	FTG	FOOTING	OHD	OVERHEAD	T	TREAD
BTWN	BETWEEN	FURR	FURRING	OHWS	OVALHEAD WOOD SCREW	T&G	TONGUE & GROOVE
BUR	BUILT-UP-ROOFING	FWY	FREEWAY	OPNG	OPENING	TB	TOLL BOOTH
CJ	CONTROL JOINT	GA	GAUGE	OPP	OPPOSITE	TEL	TELEPHONE
CL	CHAIN LINK	GAL	GALLON	OPT	OPTION, OPTIONAL	TEMP	TEMPORARY
CAB	CABINET	GALV	GALVANIZED	P	PITCH	TER	TERRAZZO
CCR	CALIFORNIA CODE OF REGULATIONS	GB	GRAB BAR	PB	POST BASE	THK	THICK
CB	CATCH BASIN	GI	GALVANIZED IRON GLASS	PC	POST CAP	THLD	THRESHOLD
CEM	CEMENT	GL	GLASS	PCD	PORTLAND CEMENT CONCRETE	TJ	TOOLED JOINT
CER	CERAMIC	GLM	GLUE LAMINATED MEMBER	POT	PAPER CUP DISPENSER	TKBD	TACKBOARD
CIP	CAST IN PLACE	GLZ	GLAZING	PT	POINT	TN	TOE NAIL
CKBD	CHALKBOARD	GR	GRADE	PRTN	PATH OF TRAVEL	TOC	TOP OF CURB OR CONCRETE
CLG	CEILING	GSM	GALVANIZED SHEET METAL	PR	PAIR	TOS	TOP OF PAVEMENT
CMU	CONCRETE MASONRY UNIT	GYBD	GYPSTUM BOARD	PMF	PRESSED METAL FRAME	TOT	TOP OF SLOPE
CLO	CLOSET	GYP SHTG	GYPSTUM SHEATHING	PLD	PLYWOOD	TOW	TOTAL
CLR	CLEAR	HB	HOSE BIBB	PLAS	PLASTER	TS	TOP OF WALL
COL	COLUMN	HC	HOLLOW CORE	PLAM	PLASTIC LAMINATE	TSCD	TUBULAR STEEL
CPTD	COMBINATION PAPER TOWEL DISPENSER & RECEPTACLE	HDR	HEADER	PL	PLATE	TTD	TOILET SEAT COVER DISPENSER
CONC	CONCRETE	HDWD	HARDWOOD	PH	PHILLIPS HEAD	TYP	TOILET TISSUE DISPENSER TYPICAL
CONN	CONNECTION	HDWR	HARDWARE	POT	PATH OF TRAVEL	UNF	UNFINISHED
CONST	CONSTRUCTION	HEX	HEXAGONAL	PSD	POWDER SOAP DISPENSER	UON	UNLESS OTHERWISE NOTED
CONT	CONTINUOUS	HF	HEMLOCK-FIR	PVC	POLYVINYL CHLORIDE	UR	URINAL
CORR	CORRIDOR	HG	HALF GLASS	PWB	PREFABRICATED WOOD I BEAM	VAR	VARIABLES
CPT	CARPET	HGR	HANGER	PREFAB	PREFABRICATED	VCT	VINYL COMPOSITION TILE
CT	CERAMIC TILE	HM	HOLLOW METAL	QT	QUARRY TILE	VERT	VERTICAL
CTR	CENTER	HORIZ	HORIZONTAL	(R)	RELOCATED	VEST	VESTIBULE
CTSK	COUNTERSUNK	HP	HIGH POINT	R	RADIUS, RISER	VR	VENT RISER
CY	CUBIC YARD	HR	HOUR	R/W	RIGHT OF WAY	VTR	VENT THROUGH ROOF
DA	DESIGNATED ACCESSIBILITY	HSB	HIGH STRENGTH BOLT	RD	ROOF DRAIN	V.B.	VENETIAN BLIND
DBL	DOUBLE	HT	HEIGHT	RDWD	REDWOOD	W	WEST
DEPT	DEPARTMENT	HVAC	HEATING, VENTILATING, AIR CONDITIONING	REF	REFERENCE	W/	WITH
DET	DETAIL	HWY	HIGHWAY	REFG	REFRIGERATOR	W/O	WITHOUT
DF	DOUGLAS FIR	HL	COMBINATION LIGHT & HEAT UNIT	REINF	REINFORCED(ING)	WB	WATER BOTTLE
DIA	DIAMETER	ID	INSIDE DIAMETER	REQ	REQUIRED	WC	WATER CLOSET
DIM	DIMENSION	IN	INCH	RFG	ROOFING	WD	WOOD
DN	DOWN	INSUL	INSULATION	RFSWN	ROUGHSAWN	WDW	WINDOW
DP	DEEP	INT	INTERIOR	RH	ROUND HEAD	WH	WORKING POINT
DR	DOOR	JAN	JANITOR	RHWS	ROUND HEAD WOOD SCREW	WP	WORKING POINT
DS	DOWNSPOUT	JB	JUNCTION BOX	RJ	ROOF JOIST	WR	WATER RESISTANT
DI	DRAINAGE INLET	JH	JOIST HANGER	RM	ROOM	WSCOT	WAINSCOT
DWG	DRAWING	JST	JOIST	RO	ROUGH OPENING	WT	WEIGHT
DWR	DRAWER	JT	JOINT	RSWN	RESAWN	WTPR	WATERPROOFING
(E)	EXISTING	KIT	KITCHEN	RTE	ROUTE	WWF	WELDED WIRE FABRIC
E	EAST	LAB	LABORATORY	RWL	RAINWATER LEADER	WW	WINDOW WALL
EA	EACH	LAV	LAVATORY			YD	YARD
EHD	ELECTRIC HAND DRYER	LBF	POUND FORCE				
EIFS	EXTERIOR INSULATION FINISHING SYSTEM	LBS	POUNDS				
EJ	EXPANSION JOINT	LF	LINEAR FEET				
EL	ELEVATION (HEIGHT)	LKR	LOCKER				
ELECT	ELECTRICAL	LPG	LIQUIFIED PETROLEUM GAS				
ELEV	ELEVATION (VIEW)	LS	LAB SINK				
ELVR	ELEVATOR						
EMER	EMERGENCY						
ENCL	ENCLOSURE						

SYMBOLS

	EARTH
	AC PAVING
	PARTITION
	CONCRETE
	CONCRETE MASONRY UNITS
	STEEL
	SAND/MORTAR/PLASTER
	BATT INSULATION
	RIGID INSULATION
	EXPANSION JOINT FILLER
	PLYWOOD
	GYPSTUM BOARD
	CONTINUOUS WOOD FRAMING
	WOOD BLOCKING
	FINISH WOOD
	ROOM DESIGNATION
	DOOR DESIGNATION
	WINDOW DESIGNATION
	LOUVER DESIGNATION
	WORKING POINT
	ELEVATION IDENTIFICATION
	SHEET NUMBER
	SECTION LETTER
	SHEET NUMBER
	DETAIL NUMBER
	SHEET NUMBER
	DETAIL NUMBER
	SAME SHEET
	GRID LINE (LETTER IN ONE DIRECTION, NUMBERS IN OTHER DIRECTION)

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		6	78

LICENSED ARCHITECT DATE 03/03/2013
 No. C-32260
 Exp. 04/30/15
 STATE OF CALIFORNIA

05-06-13
 PLANS APPROVAL DATE
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ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID 1100000345	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by: Date: 04-11-2013	Reviewed by: FRANCIS SOLICH Approval date: 03-26-2013 CSFM No. 01-37-11-0062

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		7	78

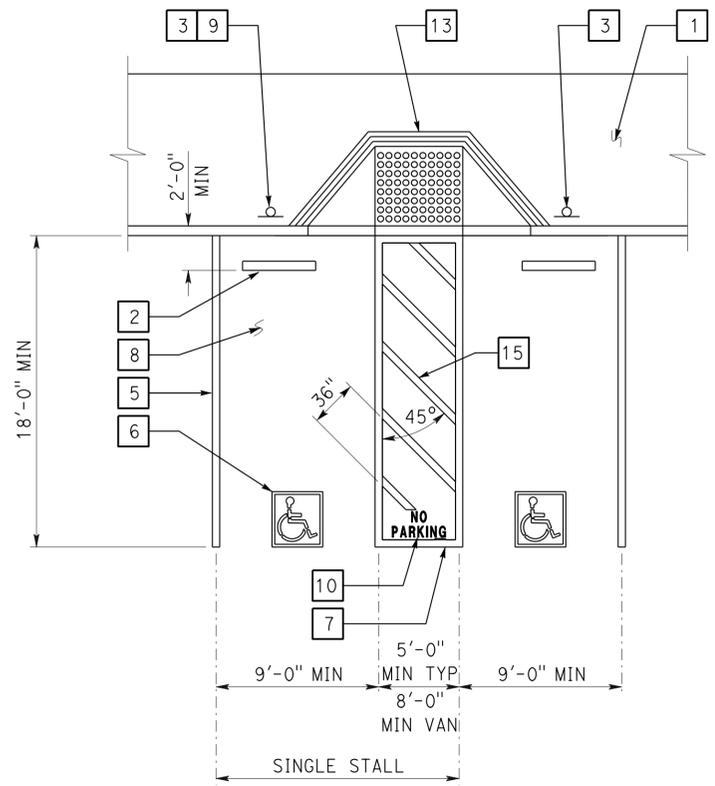
<i>Y.A. Wang</i>	10-19-12	
LICENSED ARCHITECT	DATE	

05-06-13
PLANS APPROVAL DATE

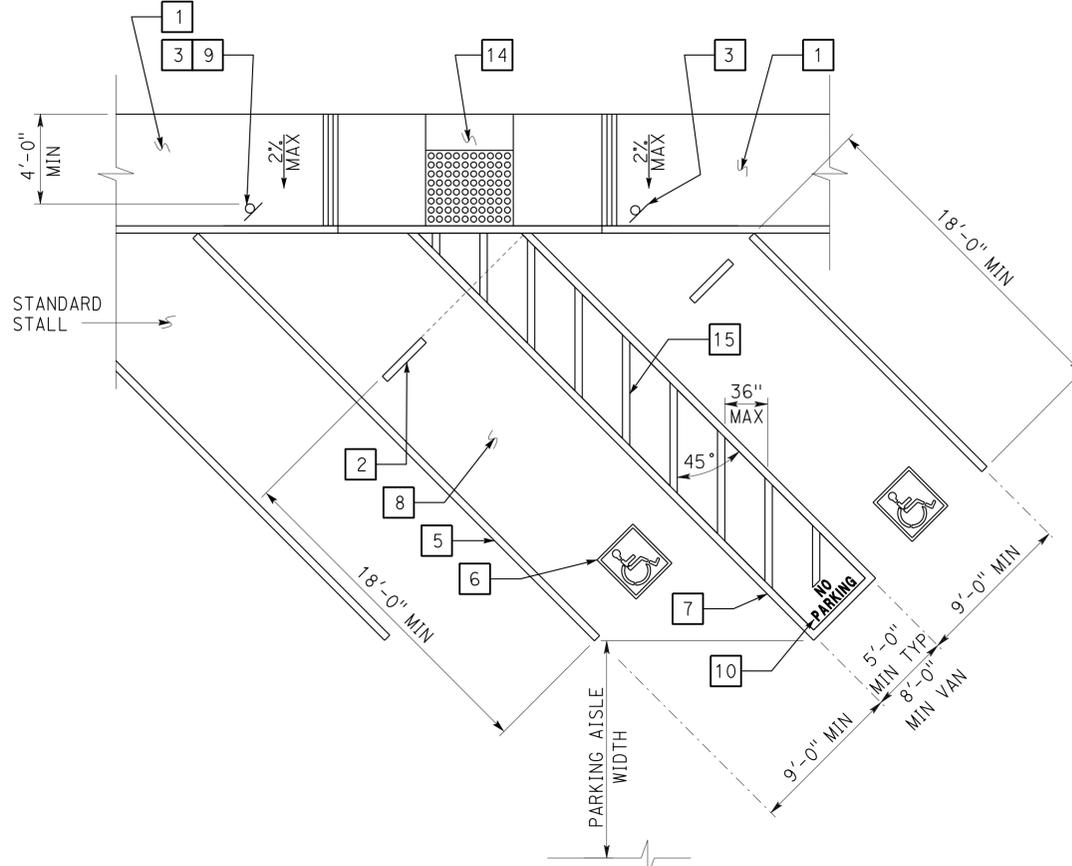
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

KEYED NOTE LEGEND FOR DETAILS

- Concrete walkway (where occurs). See plans for width, layout (may vary), finish, joints and elevations.
- Parking bumper (away from access aisle). See Specifications.
- Accessible parking space signage. See Detail 1 on sheet A0-3.2.
- 1' wide grooved border on level surface typ at ramp perimeter. See Detail 3 on this sheet.
- 4" wide white parking stall designation stripe. See site plan(s) for additional stall striping. See specifications for painting.
- Accessible parking surface identification painted on pavement. See Detail 6 on sheet A0-3.2.
- 4" wide blue border designating non-parking access aisle to curb ramp. Access aisle shall be on passenger side only.
- "NO PARKING" in min 12" high letters to be placed within access aisle to curb ramp. See Detail 7 on sheet A0-3.2.
- Level landing -2% max slope w/36" deep detectable warning surface adjoining access aisle or vehicular way. See Detail 6 on this sheet.
- Detectable warning surface to extend full width and min 36" deep from front edge of sidewalk. See Detail 6 on this sheet.
- Curb ramp. See Detail 4 on this sheet. Also see plans for width and layout (may vary).
- Curb ramp. See Detail 5 on this sheet. Also see plans for width and layout (may vary).
- 4" wide white hatched lines to contrast with asphalt surface. Use blue hatched lines for light-color concrete surface.

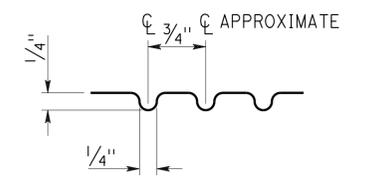


1 ACCESSIBLE PARKING STALL

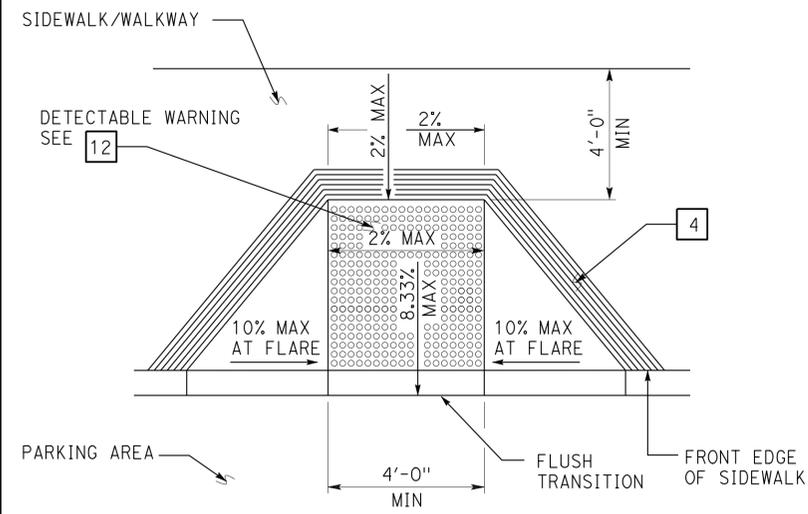


2 DIAGONAL ACCESSIBLE PARKING STALL

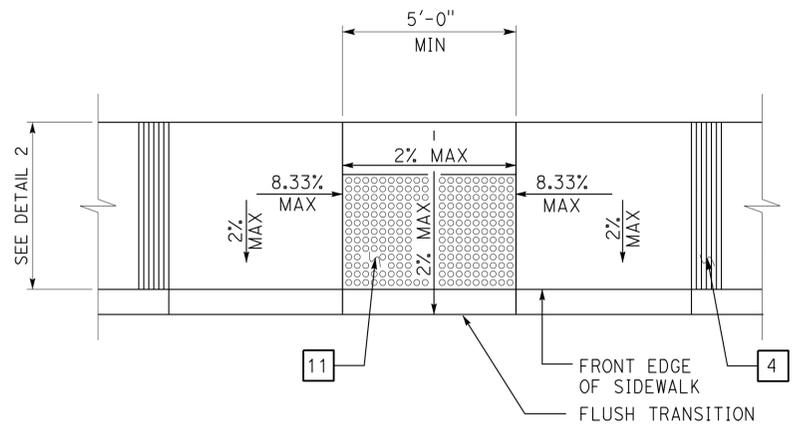
See plan for any variation of diagonal parking. Angle of parking stalls shall either match the existing angle or be indicated on plans.



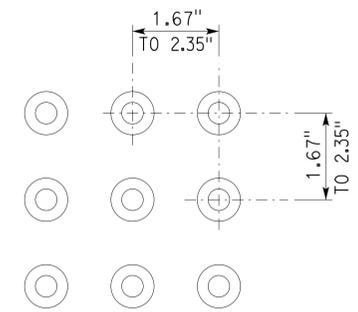
3 GROOVE DETAIL



4 PERPENDICULAR CURB RAMP

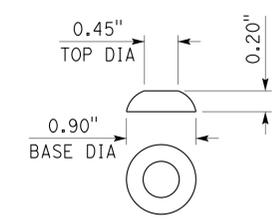


5 PARALLEL CURB RAMP



6 DETECTABLE WARNING SURFACE - TRUNCATED DOMES

Dome dimensions are nominal, which may be within ±0.05" for dome spacing, and ±0.02" for dome size.



DOMES

DETAILS

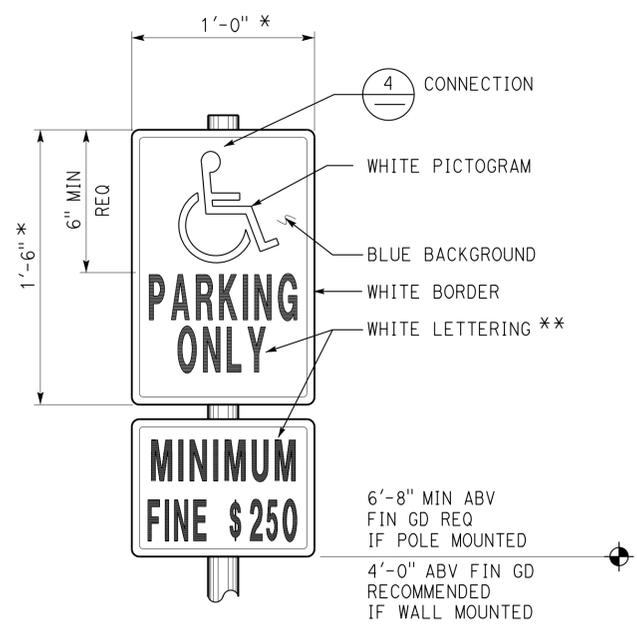
No scale unless otherwise noted

NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

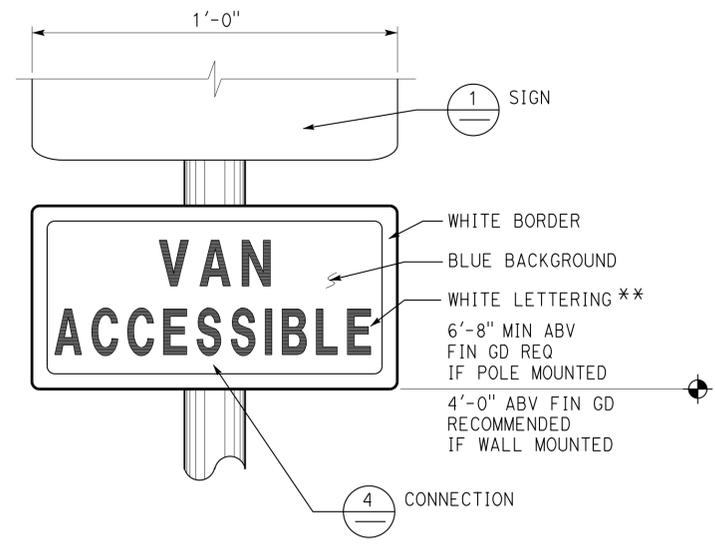
STANDARD DRAWING				STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		KEARNY MESA MATERIALS LAB		SHEET	
FILE NO. 10-12	DESIGN BY D. Aisey	CHECKED Y. A. Wang	APPROVED <i>Y.A. Wang</i>	CALIFORNIA		ARCHITECTURAL		57M5506		SEISMIC UPGRADE		A0-3.1	
DRAWING DATE 10-12	DETAILS BY D. Good	CHECKED Y. A. Wang	DESIGN SUPERVISOR	DEPARTMENT OF TRANSPORTATION		AND STRUCTURAL DESIGN		POST MILE 21.8		ACCESSIBILITY		ACCESSIBILITY STANDARD DETAILS	
07_a0_03a_i.dgn	SUBMITTED BY Y.A. Wang			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT 3582		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
TAEMWW Imperial Rev. 7/10	17-JUN-2013	09:36				PROJECT NUMBER & PHASE 11000003451		03-08-12				07_a0_03a_1.dgn	

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		8	78

<i>Y.A. Wang</i>	10-19-12	
LICENSED ARCHITECT	DATE	
05-06-13 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.		

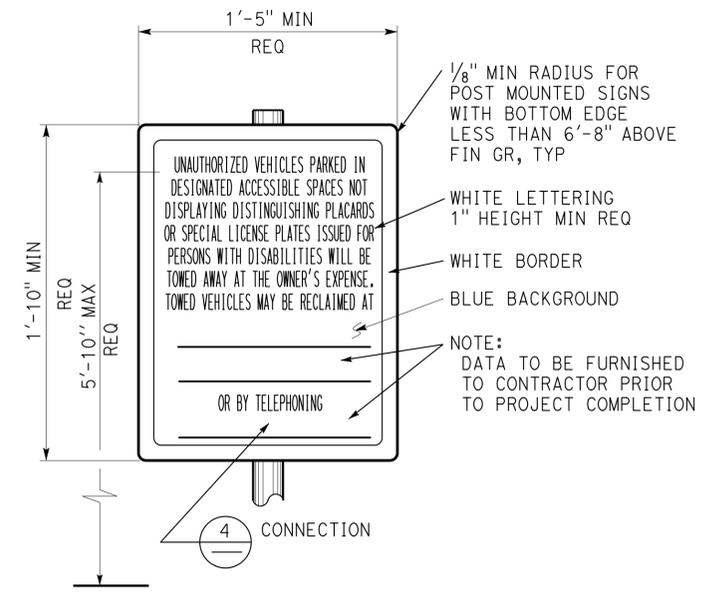


1 ACCESSIBLE PARKING SIGN
 Refer to Site Plan for locations. Combo sign may be used.
 * Min area 70 sq in req
 ** 2" min ht req for up to 10'-0" mounting ht from baseline of highest letter to fin gd.
 3" min ht req for mounting ht over 10'-0".

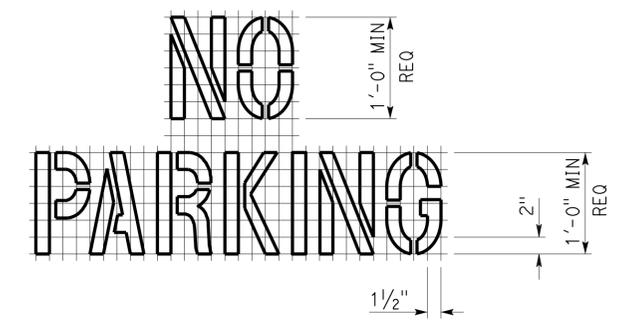


2 ACCESSIBLE VAN PARKING SIGN
 Refer to Site Plan for locations. Combo sign may be used.

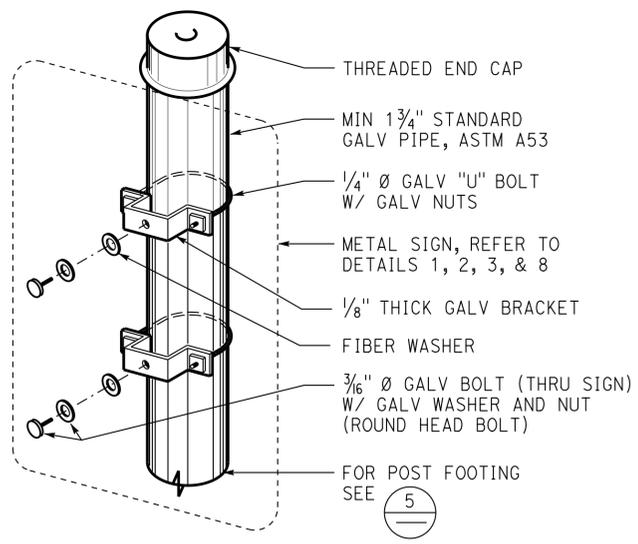
Note:
 All listed sign sizes are recommended standard sizes, unless otherwise noted as required. All mounting heights are recommended, unless otherwise noted as required.



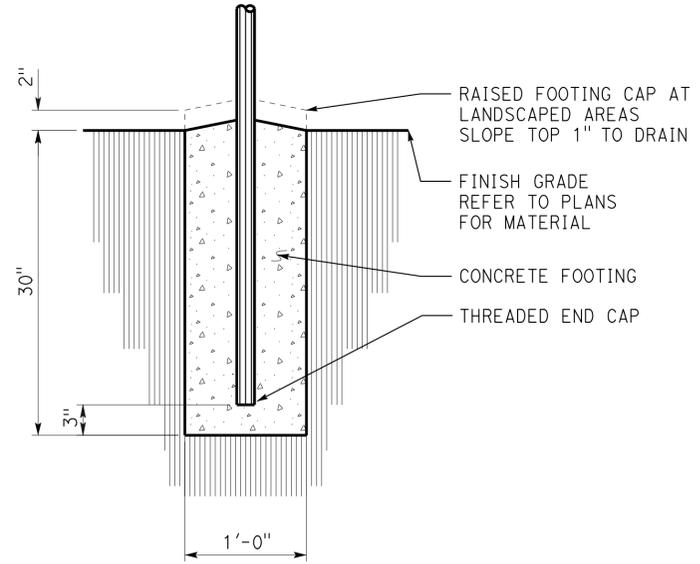
3 UNAUTHORIZED VEHICLES PARKING SIGN
 Refer to Site Plan for locations. Colors may vary. Sign shall not be posted in a path of travel.



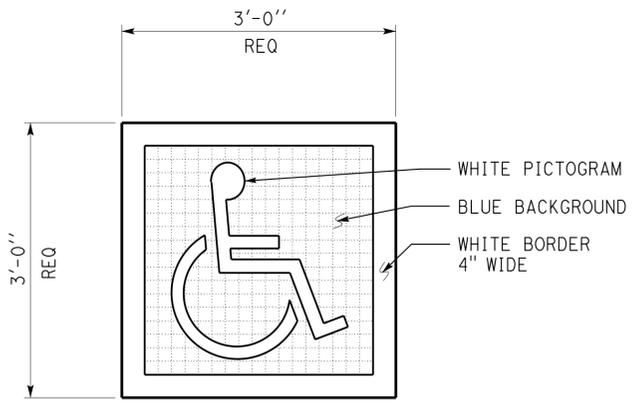
7 ACCESS AISLE PAVEMENT MARKING



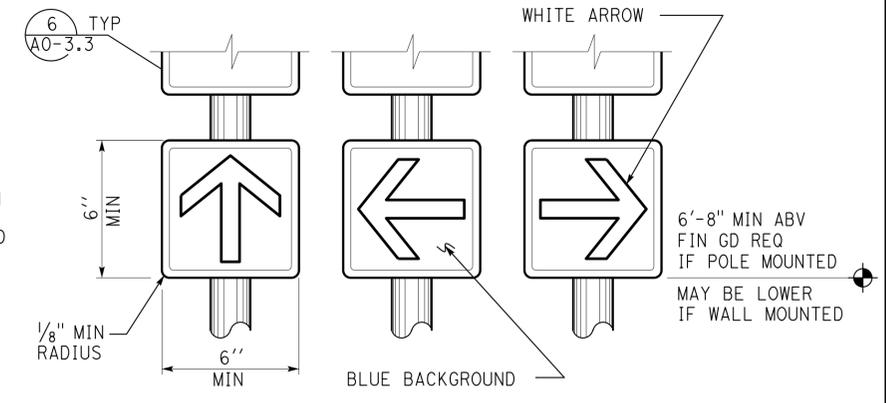
4 SIGN CONNECTION



5 SIGN POST FOOTING



6 ACCESSIBLE PARKING SURFACE IDENTIFICATION
 Refer to Details 1 and 2 on sheet A0-3.1 for locations.



8 DIRECTIONAL SIGNS
 Refer to Site Plan or General Plan for locations. Wall or door mounted signs may be used. Combo sign may be used. Colors may vary.

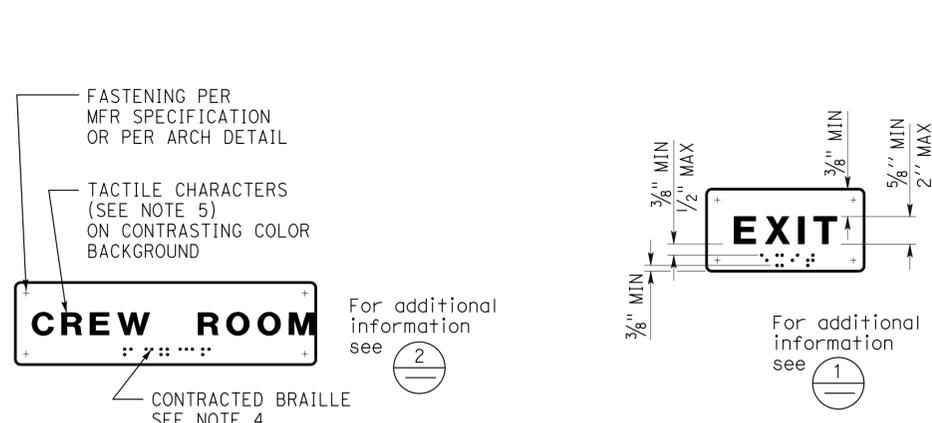
DETAILS
 No scale unless otherwise noted

NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

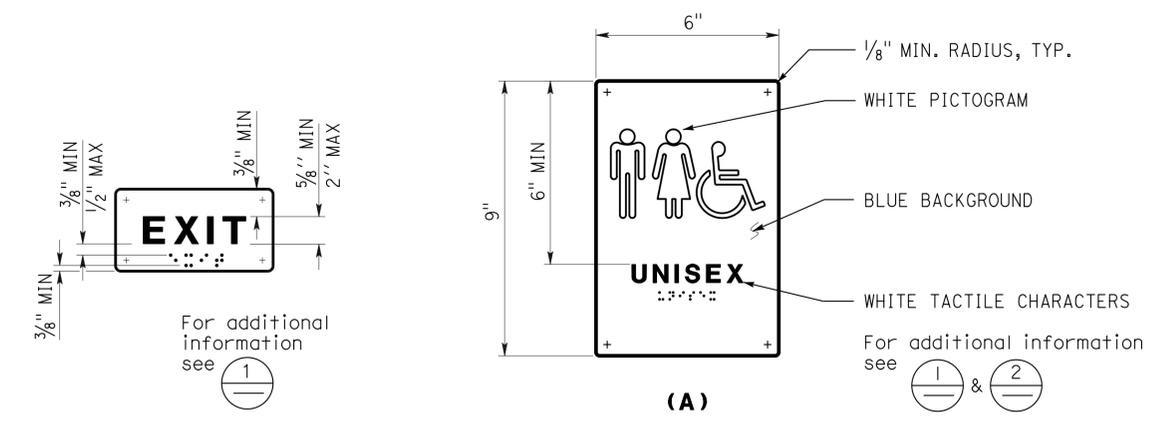
STANDARD DRAWING				STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO. 57M5506		KEARNY MESA MATERIALS LAB SEISMIC UPGRADE		SHEET A0-3.2	
FILE NO. 10-12	DESIGN BY D. Aalsey	CHECKED Y. A. Wang	APPROVED <i>R.E. Travin</i>	DEPARTMENT OF TRANSPORTATION		ARCHITECTURAL AND STRUCTURAL DESIGN		POST MILE 21.8		ACCESSIBILITY		ACCESSIBILITY STANDARD DETAILS	
SUBMITTED BY Y.A. Wang				DESIGN SUPERVISOR		PROJECT NUMBER & PHASE 11000003451		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
08_a0_03b_1.dgn				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT 3582		03-08-12		17-JUN-2013 09:37		08_a0_03b_1.dgn	

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		9	78

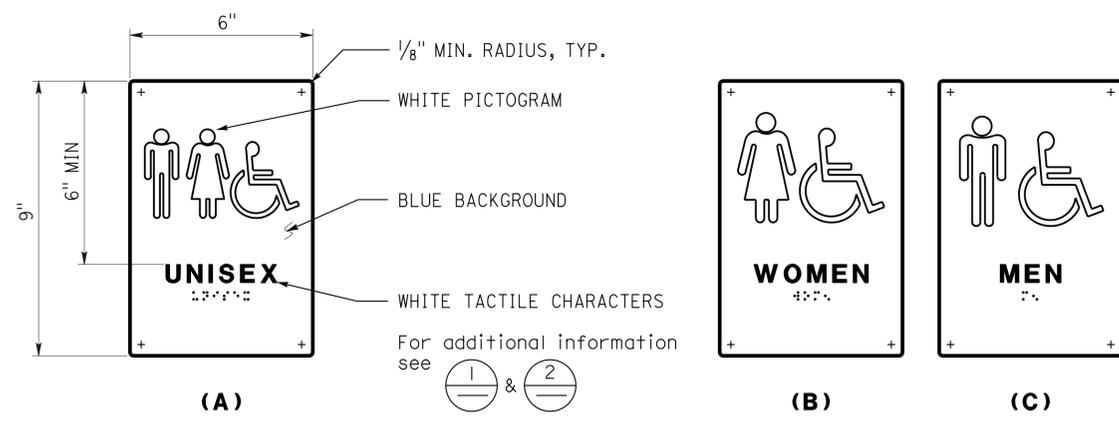
 LICENSED ARCHITECT		10-19-12 DATE	
05-06-13 PLANS APPROVAL DATE		The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.	



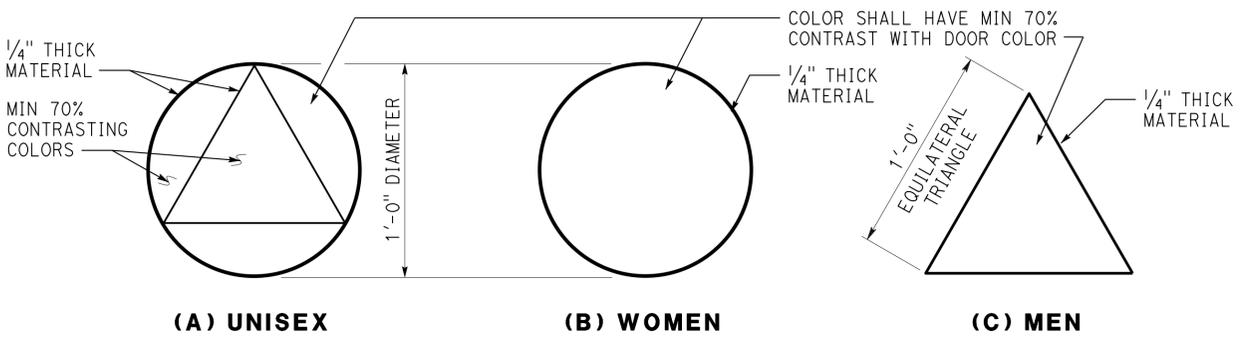
1 ROOM IDENTIFICATION SIGN
 Install per Detail 5. Text varies. See plans, ext elevations, or door schedule for locations and text. See Detail 7 for sign mounting heights.



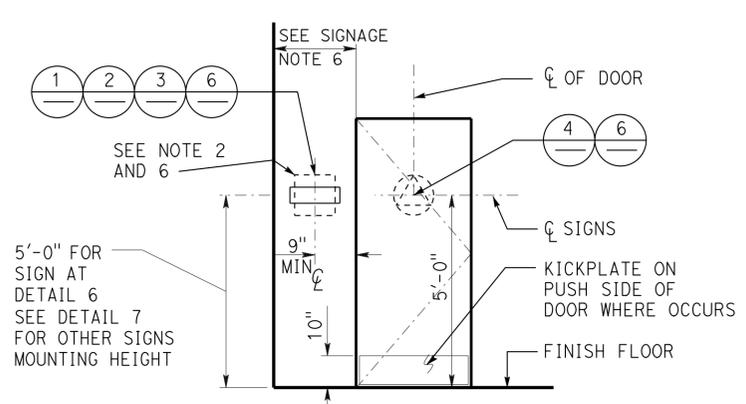
2 INTERIOR EXIT SIGN
 Install per Detail 5. Text may vary. See plans, or door schedule for locations and text. See Detail 7 for sign mounting heights.



3 RESTROOM/SHOWER ROOM SIGNS
 Install per Detail 5. See Detail 7 for sign mounting heights.



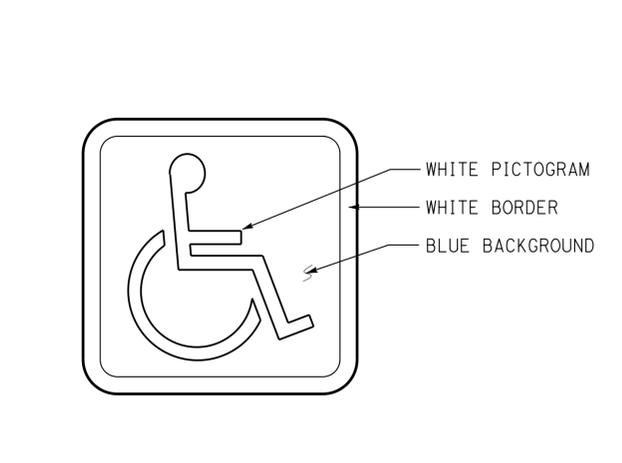
4 RESTROOM/SHOWER ROOM IDENTIFICATION SYMBOLS
 Install per Detail 5. Any pictogram and text are not required.



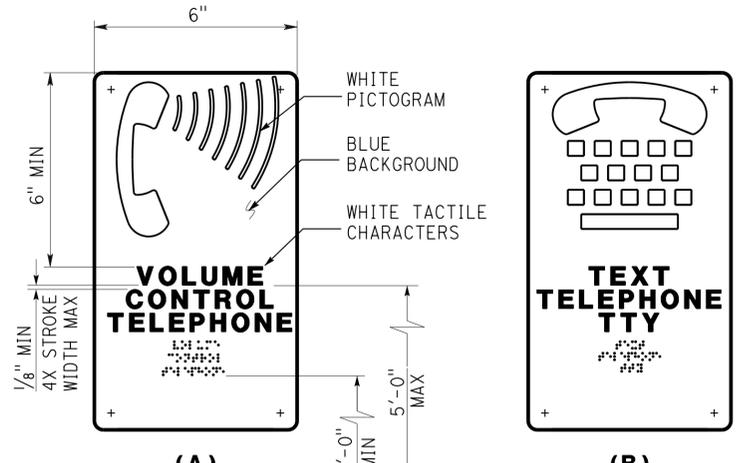
5 SIGN LOCATIONS
 Refer to signage notes for additional information.

- SIGNAGE NOTES:**
1. Locate room identification signs, exit signs, and restroom signs on wall adjacent to door on latch side. If wall space is not available on latch side, locate on nearest adjacent wall. Locate sign on inactive leaf at double doors, or to the right of right hand door at double doors with two active leaves.
 2. Refer to specifications for sign material and other color selection. Except Detail 6, sign colors may vary from details.
 3. See door schedule for text and sign location, UON.
 4. Contracted Braille: dots shall be 1/10" OC in each cell with 2/10" space between cells measured from the second column of dots in the first cell to the first column of dots in the second cell. Dots shall be raised a minimum of 1/40" above the background. Dots shall be domed or rounded.
 5. Tactile characters shall be uppercase sans serif raised 1/32" min. Fonts shall be selected where width of letter "O" is 60% min and 110% max of height of letter "I". Stroke thickness of letter "I" is 10% min and 20% max of height of the character.
 6. Provide 18"x18" min clear floor space in front of and centered on any tactile sign.
 7. Sign color shall have a minimum of 70% contrast to door or wall color. Text and pictogram shall have a minimum of 70% contrast to sign color.
 8. Tactile character height is measured based on height of uppercase letter "I".

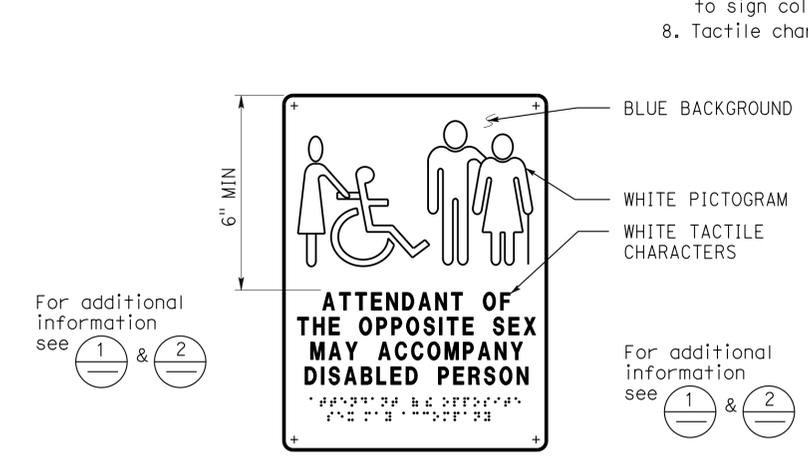
ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID 1100000345	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by:  Date: 04-11-2013	Reviewed by:  FRANCIS SOLICH Approval date: 03-26-2013 CSFM No. 01-37-11-0062



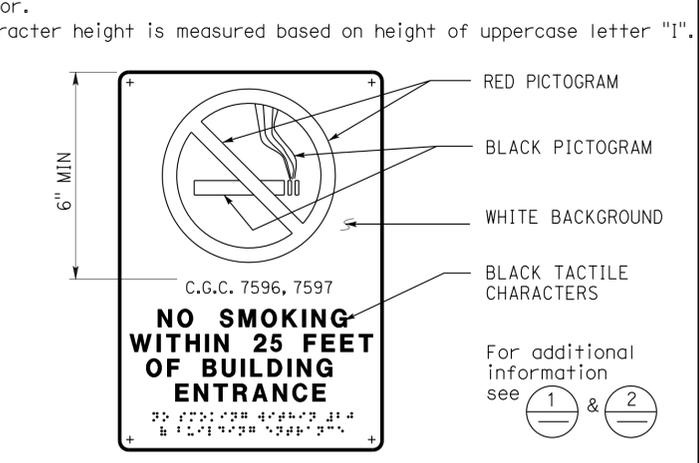
6 INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN
 Install per Detail 5. See plans, elevations, or schedule for sign locations. Decal may be used.



7 TELEPHONE SIGNS
 Text may vary. See plans or exterior elevations for sign locations and mounting heights.



8 RESTROOM ACCOMPANY SIGN
 See plans or elevations for locations. See Detail 7 for sign mounting heights.



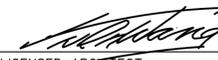
9 NO SMOKING SIGN
 See plans or ext elevations for locations. See Detail 7 for sign mounting heights.

DETAILS
 No scale unless otherwise noted

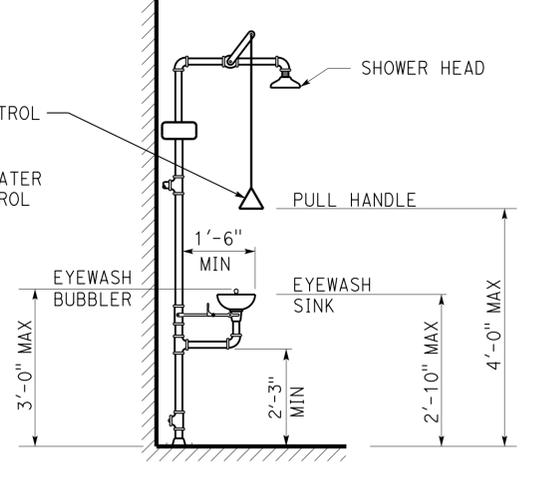
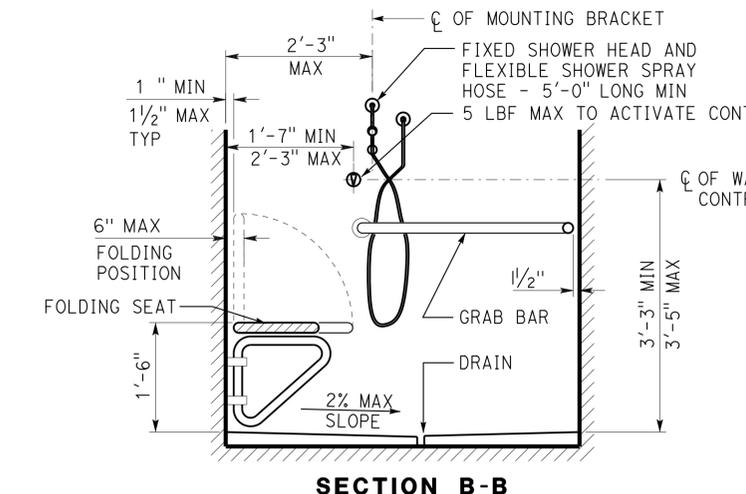
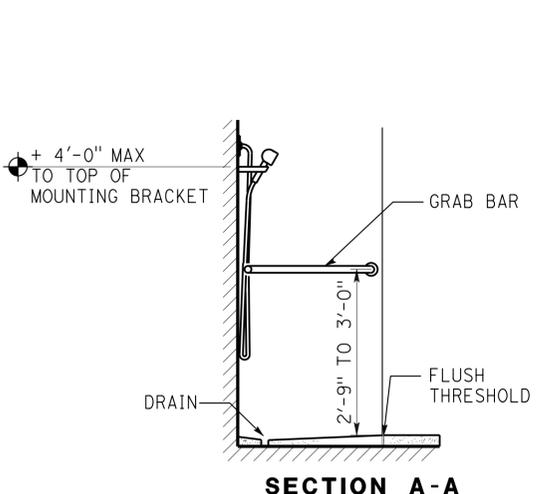
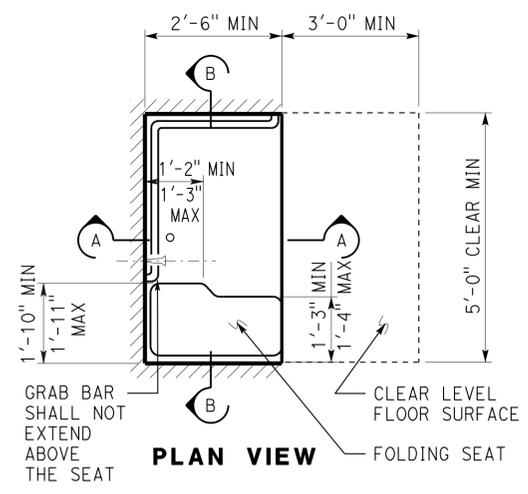
NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

STANDARD DRAWING				STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN		BRIDGE NO. 57M5506 POST MILE 21.8		KEARNY MESA MATERIALS LAB SEISMIC UPGRADE		SHEET A0-3.3			
FILE NO. 10-12	DESIGN BY D. Aalsey	CHECKED Y. A. Wang	APPROVED R.E. Travis	DEPARTMENT OF TRANSPORTATION		PROJECT NUMBER & PHASE 3582 11000003451		ACCESSIBILITY		ACCESSIBILITY STANDARD DETAILS		REVISION DATES (PRELIMINARY STAGE ONLY)			
DATE 10-12	DETAILS BY D. Good	CHECKED Y. A. Wang	DESIGN SUPERVISOR	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		DISREGARD PRINTS BEARING EARLIER REVISION DATES		03-08-12		SHEET OF		17-JUN-2013 09:37			
09_a0_03c_i.dgn				TAEMWW Imperial Rev. 7/10				17-JUN-2013 09:37				09_a0_03c_1.dgn			

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		10	78

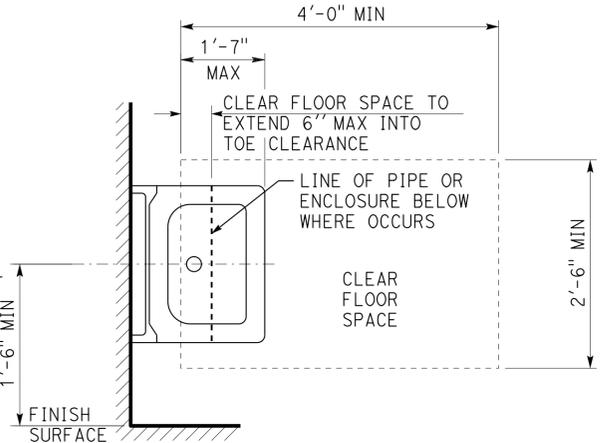
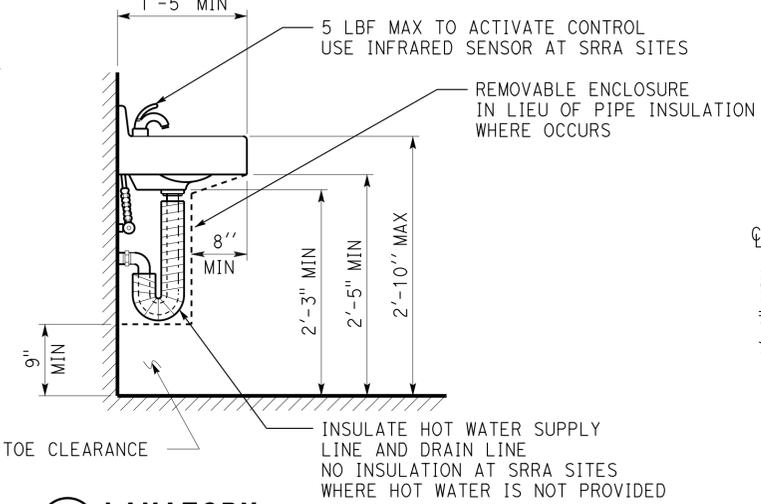
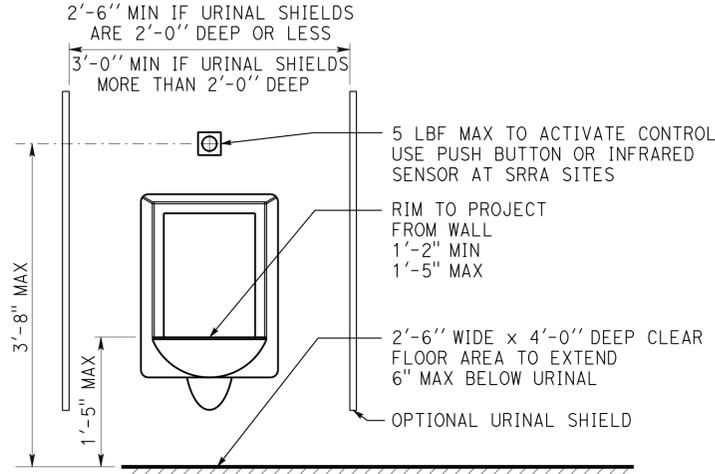
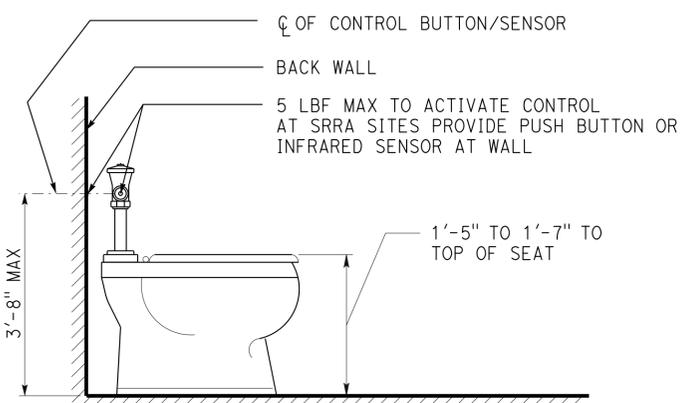
 LICENSED ARCHITECT		10-19-12 DATE
05-06-13 PLANS APPROVAL DATE		
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ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID 1100000345	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by:  Date: 04-11-2013	Reviewed by:  FRANCIS SOLICH Approval date: 03-26-2013



1 SHOWER STALL
 Optional standard shower head may be added to wall opposite shower seat. Locate water diverter per water control.

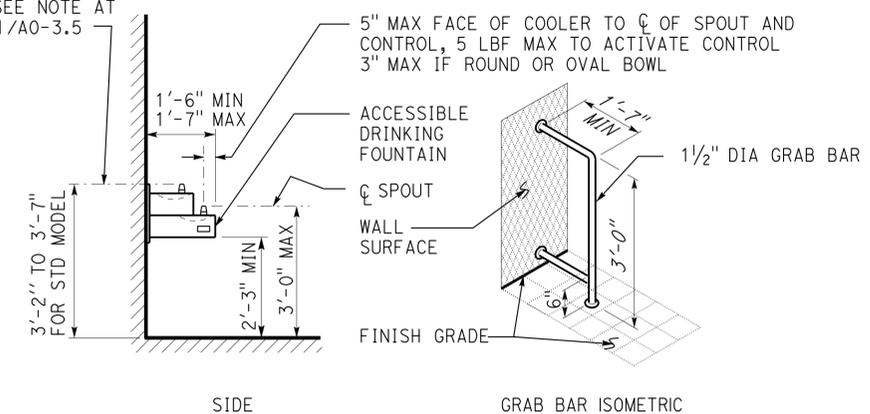
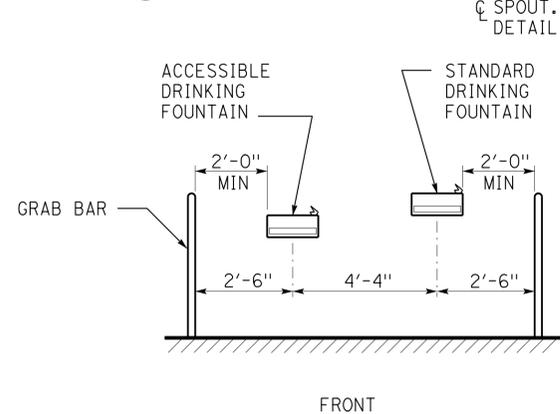
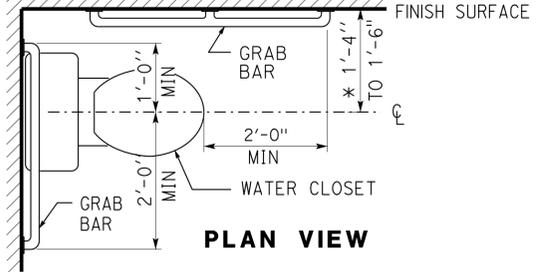
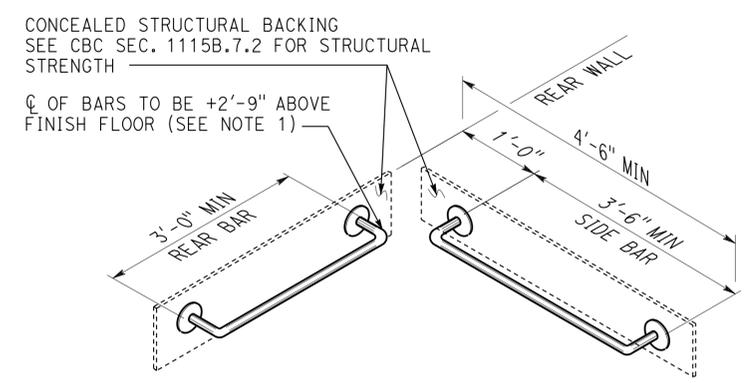
2 EMERGENCY EYEWASH/SHOWER
 Foot pedal may be added to operate equipment



3 WATER CLOSET
 See Spec for fixture type

4 URINAL

5 LAVATORY



6 GRAB BARS/ WATER CLOSET

Grab bar note:
 1. If tank type toilet is used, centerline of rear bar may be set to 3'-0" max above finish floor. Side bar to remain as shown.
 2. Grab bars to be 1 1/4" To 1 1/2" diameter with clear space of 1 1/2" to smooth wall surface.
 * 1'-5" to 1'-7" at ambulatory accessible compartment.

7 ELECTRIC WATER COOLER
 In lieu of grab bars, other types of wing walls may be used. Dimensions at front elevation may vary - see plan. Provide clear level area w/max 2% slope in all directions at each fixture. See clear floor space at detail 1/A0-3.5 for size and location.

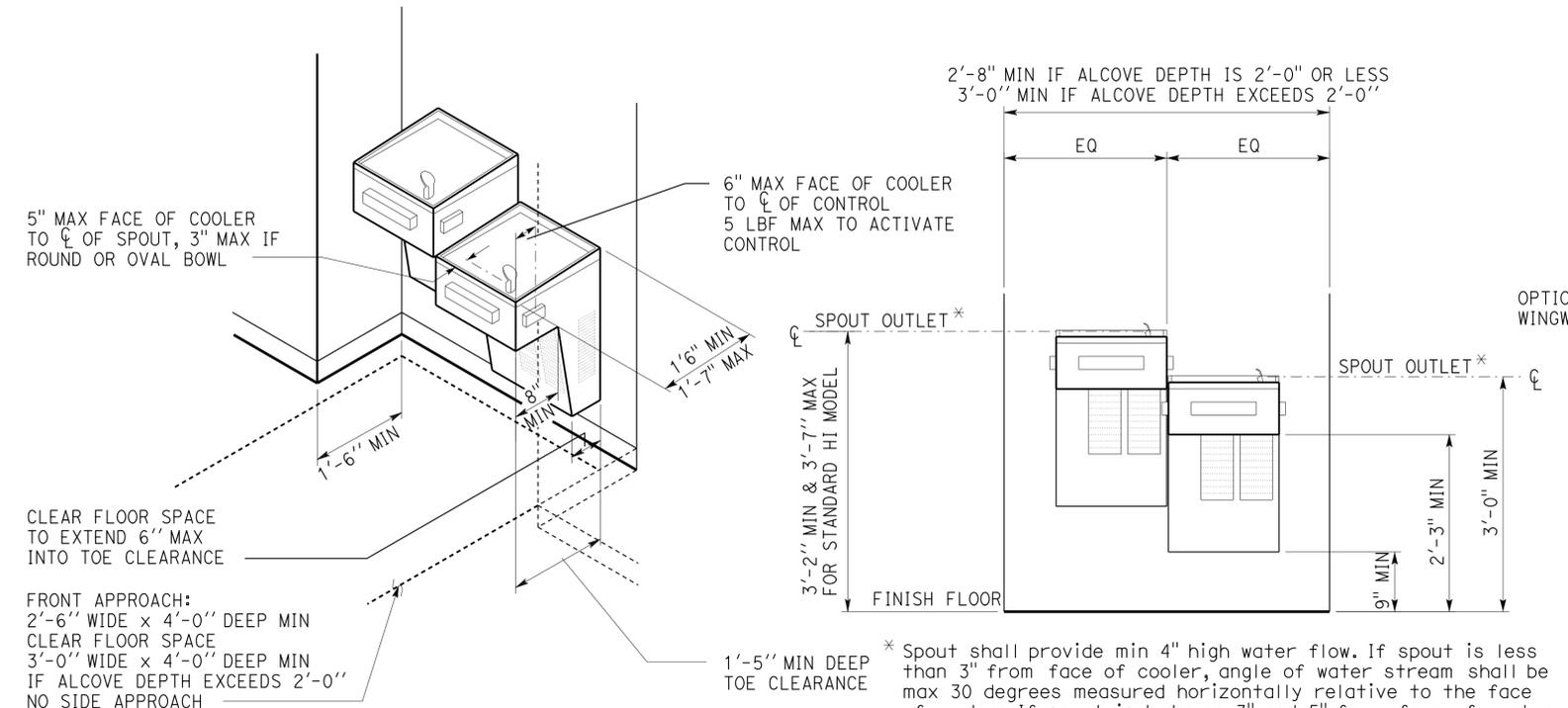
DETAILS
 No scale unless otherwise noted

NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

STANDARD DRAWING				STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO. 57M5506		KEARNY MESA MATERIALS LAB SEISMIC UPGRADE		SHEET A0-3.4	
FILE NO. 10-12	DESIGN BY D. Aalsey	CHECKED Y. A. Wang	APPROVED R.E. Travis	DEPARTMENT OF TRANSPORTATION		ARCHITECTURAL AND STRUCTURAL DESIGN		POST MILE 21.8		ACCESSIBILITY		ACCESSIBILITY STANDARD DETAILS	
DRAWING DATE 10-12	DETAILS BY D. Good	CHECKED Y. A. Wang	DESIGN SUPERVISOR	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT PROJECT NUMBER & PHASE 3582 11000003451		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
10_a0_03d_i.dgn				17-JUN-2013 14:15				03-08-12				10_a0_03d_1.dgn	

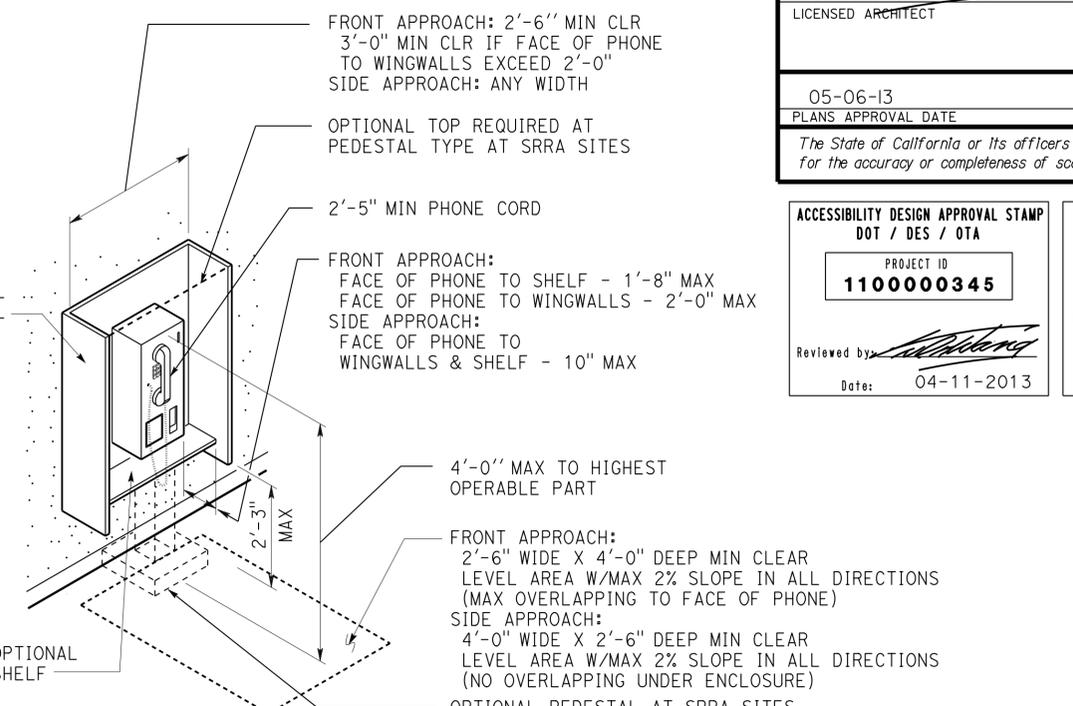
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
II	SD	5506		II	78

<i>Y.A. Wang</i>		10-19-12	
LICENSED ARCHITECT		DATE	
05-06-13			
PLANS APPROVAL DATE			
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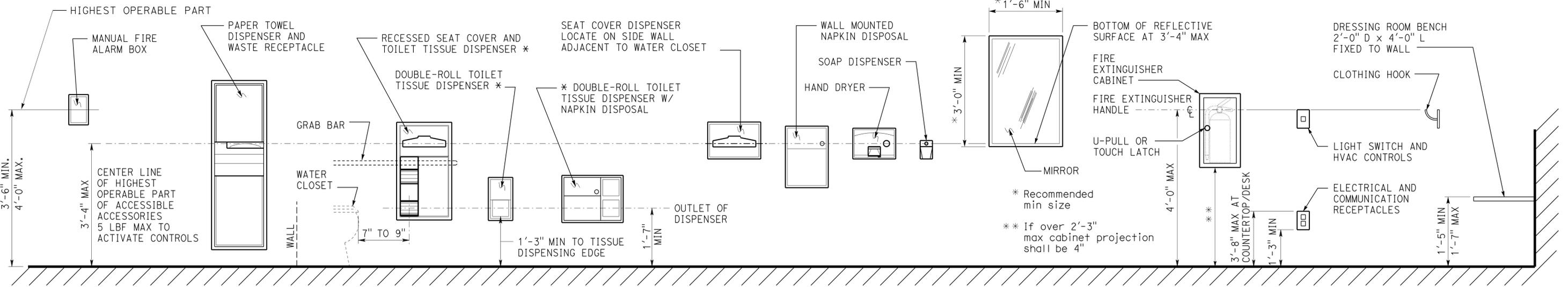
1 ELECTRIC WATER COOLER AT ALCOVE

Fixture type may vary.
Width of alcove may vary.
Two fixtures with separate mounting heights may be installed at separate locations.



2 TELEPHONE

Note: Seat surface shall be slip resistant and shall not accumulate water (E.G., 2% max slope to drain) when installed in conjunction with wet locations. Structural strength of the bench and attachments shall comply w/CBC Sec. 1115B.7.2



3 ACCESSORIES

DETAILS
No scale unless otherwise noted

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STANDARD DRAWING				STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		KEARNY MESA MATERIALS LAB		SHEET	
FILE NO.	DESIGN BY	CHECKED	APPROVED	CALIFORNIA		ARCHITECTURAL		57M5506		SEISMIC UPGRADE		A0-3.5	
10-12	D. Aisey	Y. A. Wang	<i>Y.A. Wang</i>	DEPARTMENT OF TRANSPORTATION		AND		POST MILE		ACCESSIBILITY		ACCESSIBILITY STANDARD DETAILS	
	BY	CHECKED	DESIGN SUPERVISOR			STRUCTURAL DESIGN		21.8					
	SUBMITTED BY												
11_a0_03e_i.dgn				ORIGINAL SCALE IN INCHES		UNIT		DISREGARD PRINTS BEARING		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET	
TAEMW Imperlal Rev. 7/10				FOR REDUCED PLANS		3582		EARLIER REVISION DATES		03-08-12		OF	
17-JUN-2013 09:37				0 1 2 3		PROJECT NUMBER & PHASE		11000003451					
						EA 11-287701							

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		12	78

 1/03/2013
 LICENSED ARCHITECT DATE



05-06-13
PLANS APPROVAL DATE

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Accessibility Notes

- POT from new accessible parking to (e) bldgs./ facilities not altered under this project are not required to be included in the scope of work.
- POTs from the subject Lab Bldg. to (e) bldgs./ facilities not altered under this project are not required to be included in the scope of work.
- POTs connecting (e) bldgs./ facilities not altered under this project are not required to be included in the scope of work.
- The architect has verified that the (e) vehicular gate is to remain open and and unlocked during normal business hours. The architect has verified that clear level arease on both sides of the gate are code compliant.
- Per 2010 CA. Bldg. Code Section 1134.B.2.1, this alteration project requires only ONE primary POT from site entrance pedestrian gate to ONE entrance of the subject bldg. as so indicated on the Site Plan, even though other new accessible entrances are also proposed.
- POT indicated on the Site Plan is approximately the most practical and direct route. Exact location of POT shall be determined by the field engineer. Pot may be striped to provide high visibility and safety protection. The contractor shall verify and remove any barriers at pot to comply with all the items below.
- If any POT is less than 60 inches wide, then passing space at least 60 inches x 60 inches shall be located at reasonable intervals not to exceed 200 feet.
- Any POT with continuous gradients shall have clear level area w/ max. 2% slope in all directions at least 5 feet in length at intervals of 400 feet maximum.
- POT shall be min. 48 inches wide, with min. 80 inches head clearance.
- Except for any required clear level areas, POT may have max. 5% slope in the direction of travel and max. 2% cross slope.
- POT may have max. 1/2 inch level change w/max. 1:2 slope. Level change not exceeding 1/4 inch may be vertical. Any level change exceeding 1/2 inch or any slope in the direction of travel exceeding 5% shall be accommodated by code-compliant curb ramp or ramp.
- POT surface shall be firm, stable, slip-resistant, w/o loose gravels, sand, chips, etc.
- If any gratings are located in POT, grid openings in gratings shall be limited to 1/2 inch in the direction of traffic flow.
- Any planter/grate/cover in or adjacent to POT shall require edge protection of min. 6 inches high curb or code-compliant guard or handrail if level change between pot and planter/grate/cover exceeds 4 inches.
- Per 2010 CA. Bldg. Code Section 1134.B.2.1 and 2004 ADAAG (2010 ADA Standards) Paragraph 202.4, this alteration project requires only doors at the specific areas of alteration and at sanitary facilities to be made fully accessible, including Door Nos. 1, 16, 22, 38, 39, & 84, even though other doors are also proposed to be made (fully or partially) accessible as indicated at the door schedule. Door Nos. 18 & 46 are also made fully accessible due to their locations next to the new accessible parking.
- UON indicated at the Door Schedule, the architect has verified that all the above specifically cited eight doors are code compliant, including size, hardware, opening force, and clear level areas plus any level change as indicated below
- All doors shall have clear level areas on both sides of doors w/max. 2% slope in any direction. Clear level area at exterior door front approach in the direction of door swing shall be min. 60 inches x 60 inches (including min. 24 inches pass door strike edge); and min. 48 inches deep x 36 inches wide opposite door swing (plus min. 12 inches pass door strike edge if door has both latch and closer) for single door, or min 48 inches deep x double-door width for double doors.
- Clear level area at interior door front approach in the direction of door swing shall be min. 60 inches deep x 54 inches wide (including min. 18 inches pass door strike edge) for single door, or min 60 inches deep x double-door width for double doors; and min. 48 inches deep x 36 inches wide opposite door swing (plus min. 12 inches pass door strike edge if door has both latch and closer) for single door, or min 48 inches deep x double-door width for double doors.
- Level change at the doorway, including threshold thickness, shall be max. 1/2 inch w/max. 1:2 slope. Level change not exceeding 1/4 inch may be vertical.
- Aisles formed by equipment/ stored materials/ walls at any room or space shall be min. 36 inches wide if serving one side, and min. 44 inches wide if serving both sides.
- The architect has verified that the (e) remaining drinking fountain is of standard type (the hi model), and that there is clear level area (not encroached by the adjacent door) of 30" x 48", both perpendicular and parallel to the fountain for front and side approaches. The owner will provide new cup dispenser by this fountain, installing at a maximum height of 48" from the adjacent floor.
- Per 2010 CA. Bldg. Code Section 1134.B.2.1 Exception 4 and 2004 ADAAG (2010 ADA Standards) Paragraph 202.3 Exception 1, the proposed seismic retrofit work shall not be considered as work that would trigger any accessibility requirements for the affected areas.

ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID 1100000345 Reviewed by:  Date: 04-11-2013	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by:  FRANCIS SOLICH Approval date: 03-26-2013 CSFM No. 01-37-11-0062
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12_a0-04.dgn TAEMWW Imperial Rev. 7/10 17-JUN-2013 09:37	DESIGN BY Anthony V. Manansala	CHECKED Donald E. Alsey	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 57M5506	KEARNY MESA MATERIALS LAB SEISMIC UPGRADE ACCESSIBLE PATH OF TRAVEL	SHEET
	DETAILS BY Anthony V. Manansala	CHECKED Donald E. Alsey		PROJECT NUMBER & PHASE 11000003451	POST MILE 21.8		OF
QUANTITIES BY	CHECKED	UNIT 3582		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	03-08-12 XX-XX-XX	X

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

EA 11-287701

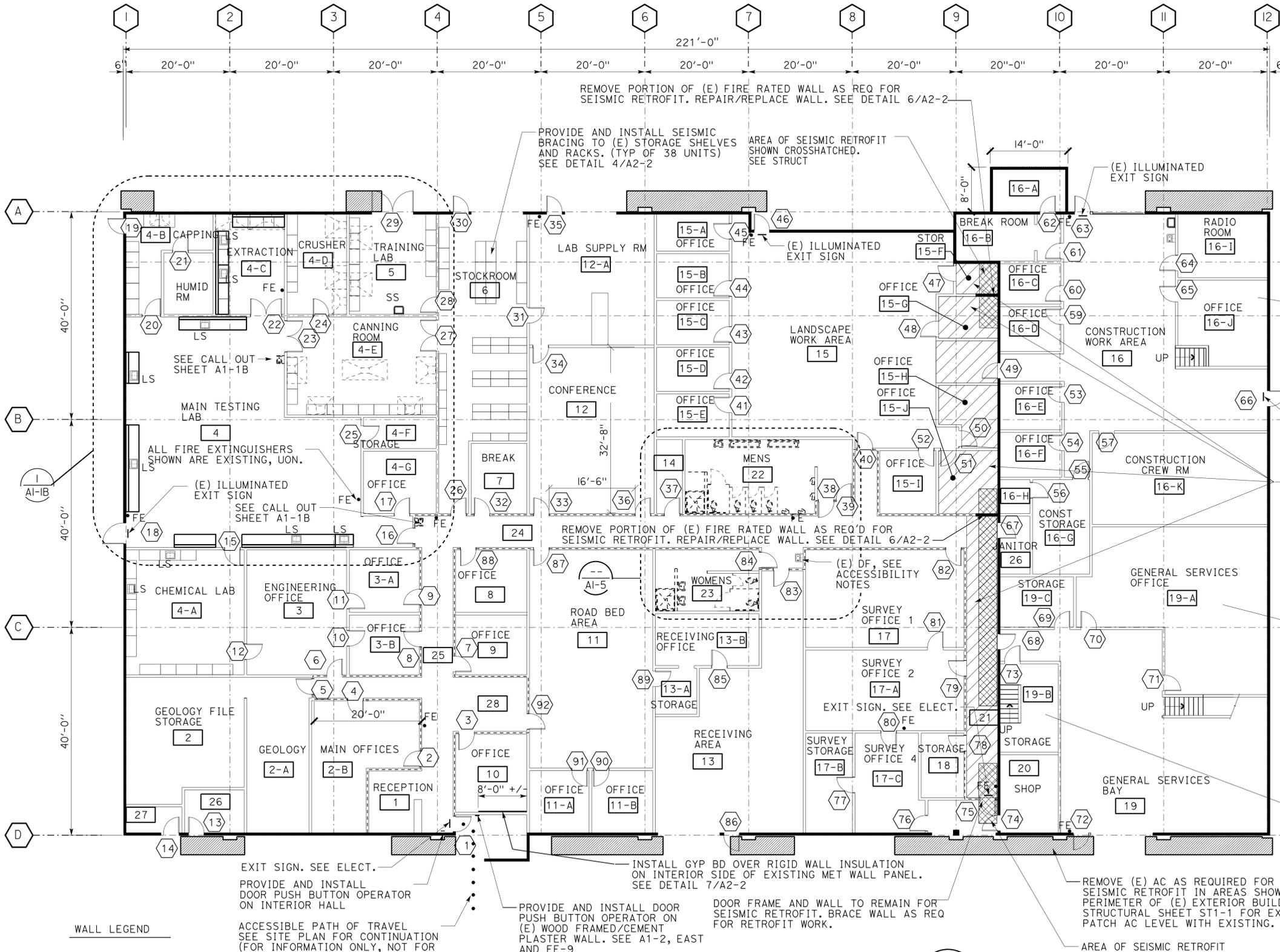
17-JUN-2013 09:37

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DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		13	78

LICENSED ARCHITECT
 ANTHONY V. MANANSALA
 No. C-32260
 Exp. 04/30/15
 STATE OF CALIFORNIA

05-06-13
 PLANS APPROVAL DATE
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ACCESSIBILITY DESIGN APPROVAL STAMP
 DOT / DES / OTA
 PROJECT ID: **1100000345**
 Reviewed by: [Signature]
 Date: 04-11-2013

CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: [Signature]
 Approval date: 03-26-2013
 CSFM No. 01-37-11-0062

REMOVE EXISTING RESILIENT FLOOR TILES IN ROOMS AND AREAS SHOWN HATCHED FOR STRUCTURAL RETROFIT WORK AND PARTIAL SLAB REPLACEMENT (SEE STRUCT) PROVIDE AND INSTALL RESILIENT FLOOR TILE IN HATCHED AREA FLUSH WITH EXISTING FINISH FLOOR OVER RETROFIT CONC SLAB. SEE DETAIL 4/A2-4.

WALL LEGEND
 (E) Concrete wall
 (E) 1-Hr. Fire rated corridor wall. see 6/A2-2
 (E) Wood framed partition wall

ACCESSIBLE PATH OF TRAVEL
 SEE SITE PLAN FOR CONTINUATION (FOR INFORMATION ONLY, NOT FOR CONSTRUCTION)

1 FLOOR PLAN
 SCALE 3/32" = 1'-0"

2 PARTIAL PLAN (STORAGE MEZZANINES)
 SCALE 3/32" = 1'-0"

13_a1-1A.dgn TAEMWW Imper1al Rev. 7/10 17-JUN-2013 09:37	DESIGN BY: Anthony V. Manansala CHECKED: Donald E. Alsey DETAILS BY: Anthony V. Manansala CHECKED: Donald E. Alsey QUANTITIES BY: [Blank] CHECKED: [Blank]	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 57M5506 POST MILE 21.8	KEARNY MESA MATERIALS LAB SEISMIC UPGRADE FLOOR PLAN	SHEET A1-1A OF X X
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3	UNIT PROJECT NUMBER & PHASE: 3582 11000003451	EA 11-287701	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY): 03-08-12 XX-XX-XX	SHEET OF: X X	17-JUN-2013 09:37

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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Anthony V. Manansala 1/03/2013
 LICENSED ARCHITECT DATE
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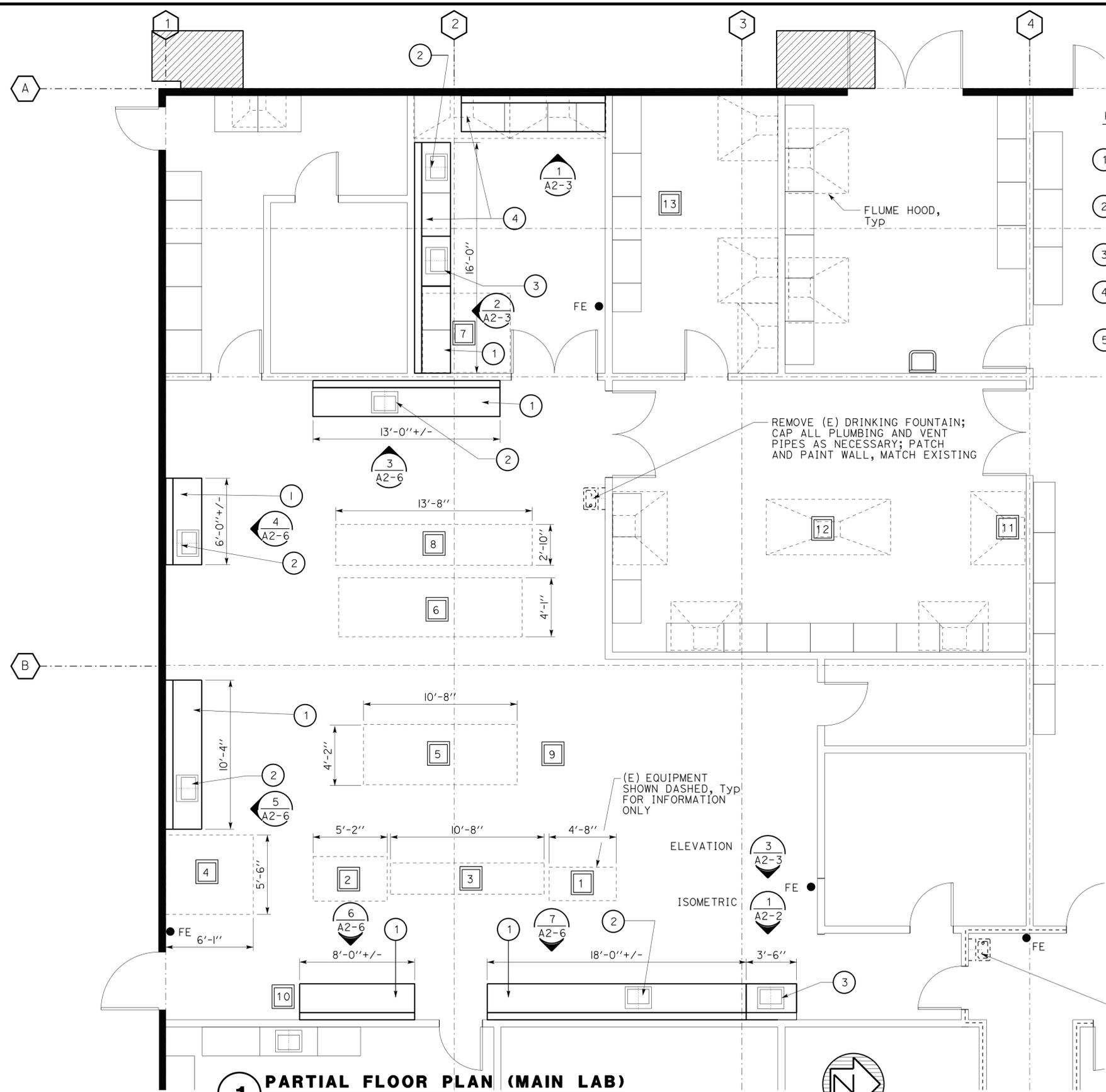
ACCESSIBILITY DESIGN APPROVAL STAMP
 DOT / DES / OTA
 PROJECT ID
1100000345
 Reviewed by: [Signature] Date: 04-11-2013
CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: [Signature] FRANCIS SOLICH Approval date: 03-26-2013
 CSFM No. 01-37-11-0062

KEYNOTES:

- 1 Remove existing laboratory countertops. provide and install countertops onto (E) cabinets. See detail 5/A2-2.
- 2 Remove (E) lab sink and sink hardware. provide and install lab sink and hardware. See Mechanical Sheet M-9.
- 3 Provide and install accessible sink. See detail 2/A2-2 and Mechanical sheets.
- 4 Remove existing laboratory cabinets and countertops. Provide and install cabinets and countertops.
- 5 See Finish Schedule for cabinet finish information.

PARTIAL EQUIPMENT SCHEDULE

NO.	NAME	WIDTH	LENGTH	HEIGHT	COMMENTS:
1	OVEN 1 ROOM 4	2'-8"	4'-8"	5'-5"	EQUIPMENT TO BE REMOVED BY STATE FORCES
2	OVEN 2 ROOM 4	3'-1"	5'-2"	6'-2"	
3	aisle CABINET ROOM 4	2'-2"	10'-8"	3'-0"	
4	HAMBURG WHEEL ROOM 4	5'-6"	6'-1"	7'-6"	
5	AC LINE TESTING EQUIPMENT, ROOM 4	4'-2"	10'-8"	8'-0"	
6	COX & SONS(COMBINED EQUIPMENT), ROOM 4	5'-0"	12'-9"	7'-4"	
7	GRIEVE OVEN ROOM 4	5'-0"	7'-4"	6'-3"	
8	CABINET WITH DRAWERS ROOM 4	2'-10"	13'-8"	3'-1"	
9	EQUIPMENT ROOM 4	--	--	--	
10	WATER SYSTEM ROOM 4	--	--	--	
11	BLUE SHAKER MACHINE ROOM 4E	--	--	--	
12	EXHAUST FAN & DUCTING ROOM 4E	--	--	--	
13	MISC EQUIPMENT ROOM 4D	--	--	--	



1 PARTIAL FLOOR PLAN (MAIN LAB)
SCALE 1/4" = 1'-0"

DESIGN	BY Anthony V. Manansala	CHECKED Donald E. Alsey
DETAILS	BY Anthony V. Manansala	CHECKED Donald E. Alsey
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO. 57M5506
 POST MILE 21.8

KEARNY MESA MATERIALS LAB SEISMIC UPGRADE
 PARTIAL FLOOR PLAN

SHEET OF **A1-1B**

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		15	78

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05-06-13
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DOOR SCHEDULE

NUMBER	DOOR				FRAME		HARDWARE GROUP	LABEL	(E) CLOSER	SIGNAGE	REMARKS
	TYPE	WIDTH	HEIGHT	THICK.	MATERIAL	GLASS					
1	(E)	3'-4"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	2	-	2 & 6 /AO-3.3	REMOVE (E) HANDLE. PROVIDE AND INSTALL LEVER HARDWARE ONTO (E) DOOR. PROVIDE AND INSTALL PUSH BUTTON OPERATOR CENTERED BETWEEN +34" TO +44" FROM ADJACENT FLOOR.
2	(E)	3'-0"	7'-0"	1-3/4"	MET	NO	MET 10-1/2"	1	20 MIN		PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
3	(E)	3'-0"	7'-0"	1-3/4"	MET	NO	MET 10-1/2"	1	20 MIN		PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
4	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	20 MIN		PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
5	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	20 MIN		PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
6	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	20 MIN		PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
7	(E)	3'-0"	7'-0"	1-3/4"	MET	NO	MET 10-1/2"	1	20 MIN		PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
8	(E)	3'-0"	7'-0"	1-3/4"	MET	NO	MET 10-1/2"	1	20 MIN		PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
9	(E)	3'-0"	7'-0"	1-3/4"	MET	NO	MET 10-1/2"	1	20 MIN		PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
10	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
11	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
12	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	--	-	YES	NO WORK REQUIRED
13	(E)	3'-0"	7'-0"	1-3/4"	MET	NO	MET 10-1/2"	--	-	NO	NO WORK REQUIRED
14	(E)	3'-0"	7'-0"	1-3/4"	MET	NO	MET 10-1/2"	--	-	NO	NO WORK REQUIRED
15	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
16	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	20 MIN	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
17	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
18	(E)	4'-0"	7'-8"	1-3/4"	MET	YES	MET 10-1/2"	--	-	YES	2 & 6 /AO-3.3
19	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
20	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	NO	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
21	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
22	(E)	6'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	NO	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
23	(E)	6'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
24	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	NO	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
25	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	NO	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
26	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	20 MIN	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
27	(E)	6'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
28	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	NO	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
29	(E)	6'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	--	-	YES	NO WORK REQUIRED
30	(E)	3'-0"	8'-0"	1-3/4"	MET	YES	MET 10-1/2"	--	-	YES	NO WORK REQUIRED
31	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
32	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	20 MIN	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
33	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	20 MIN	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
34	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
35	(E)	3'-0"	8'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	YES	NO WORK REQUIRED
36	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	20 MIN	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
37	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	20 MIN	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
38	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	20 MIN	YES	3C/AO-3.3
39	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	20 MIN	YES	4C / AO-3.3
40	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	20 MIN	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
41	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	NO	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
42	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	NO	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
43	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	NO	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
44	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	NO	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
45	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	NO	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE. NO OTHER WORK REQUIRED.
46	(E)	3'-0"	8'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	YES	2 & 6 /AO-3.3

DOOR SCHEDULE CONTINUED

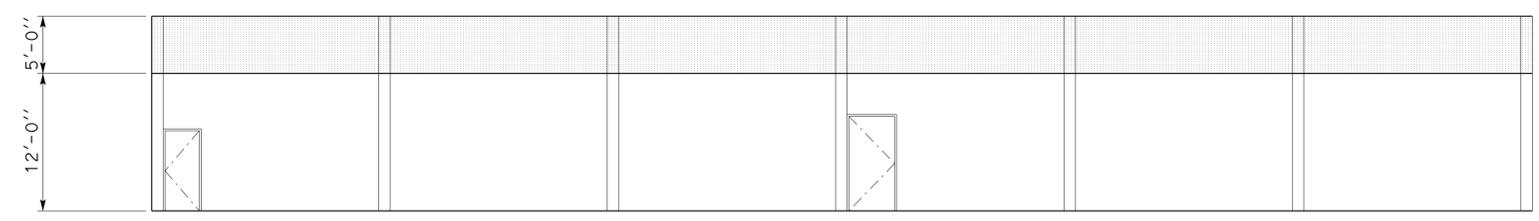
NUMBER	DOOR				FRAME		HARDWARE GROUP	LABEL	DOOR CLOSER	SIGNAGE	REMARKS
	TYPE	WIDTH	HEIGHT	THICK.	MATERIAL	GLASS					
47	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	NO	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
48	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	NO	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
49	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	--	3 HR	YES	NO WORK REQUIRED
50	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	NO	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
51	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	NO	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
52	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	NO	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
53	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	--	-	YES	NO WORK REQUIRED
54	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	--	-	YES	NO WORK REQUIRED
55	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
56	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
57	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	--	--	NO	NO WORK REQUIRED
58	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
59	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	--	-	YES	NO WORK REQUIRED
60	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	--	-	YES	NO WORK REQUIRED
61	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	--	-	YES	NO WORK REQUIRED
62	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
63	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	--	-	YES	NO WORK REQUIRED
64	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	NO	NO WORK REQUIRED
65	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	--	-	NO	NO WORK REQUIRED
66	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
67	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	3 HR	NO	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
68	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	3 HR	NO	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
69	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
70	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
71	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
72	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	--	-	YES	NO WORK REQUIRED
73	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	--	-	YES	NO WORK REQUIRED
74	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	--	-	YES	NO WORK REQUIRED
75	(E)	3'-4"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	3	-	YES	REMOVE (E) HANDLE. PROVIDE AND INSTALL LEVER HARDWARE ONTO (E) DOOR.
76	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
77	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	NO	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
78	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	20 MIN	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
79	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	20 MIN	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
80	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
81	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
82	(E)	3'-4"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	20 MIN	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
83	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	20 MIN	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
84	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	--	20 MIN	YES	3B, 4B/AO3.3
85	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	NO	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
86	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	--	-	YES	NO WORK REQUIRED
87	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	20 MIN	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
88	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	20 MIN	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
89	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	--	-	NO	NO WORK REQUIRED
90	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	NO	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
91	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	-	NO	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.
92	(E)	3'-0"	7'-0"	1-3/4"	MET	YES	MET 10-1/2"	1	20 MIN	YES	PROVIDE AND INSTALL RETROFIT LEVER ONTO (E) KNOB HANDLE.

ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID 1100000345	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by: <i>[Signature]</i> Date: 04-11-2013	Reviewed by: <i>[Signature]</i> FRANCIS SOLICH Approval date: 03-26-2013 CSFM No. 01-37-11-0062

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		16	78

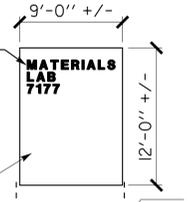
LICENSED ARCHITECT
 ANTHONY V. MANANSALA
 No. C-32260
 Exp. 04/30/15
 STATE OF CALIFORNIA

V03/2013
 DATE
 05-06-13
 PLANS APPROVAL DATE
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NORTH

REMOVE (E) SIGNAGE 18"x24" METAL "MATERIALS LAB 7177" SIGN, ANCHOR FASTENERS AND PATCH HOLES. PROVIDE AND INSTALL SIGNAGE PER DETAIL 4/A2-3



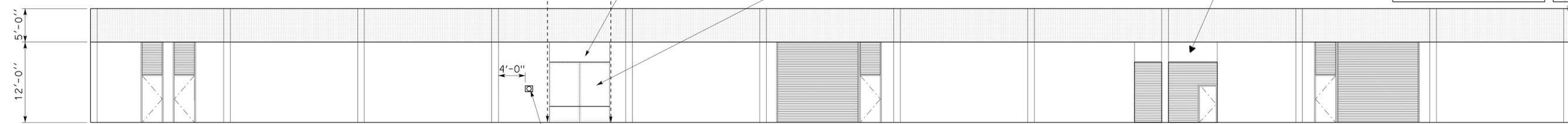
WING WALL SHOWN ABOVE FOR CLARITY

(E) PLASTER SOFFIT

(E) STORE FRONT WINDOW

NOTE:
 Paint exterior walls, doors, door frames, roll-up doors, exposed soffits, columns, guard posts, and all exposed misc metals on entire existing building exterior. Paint concrete signage monument all sides. Contractor to patch (E) cracks and holes prior to painting.

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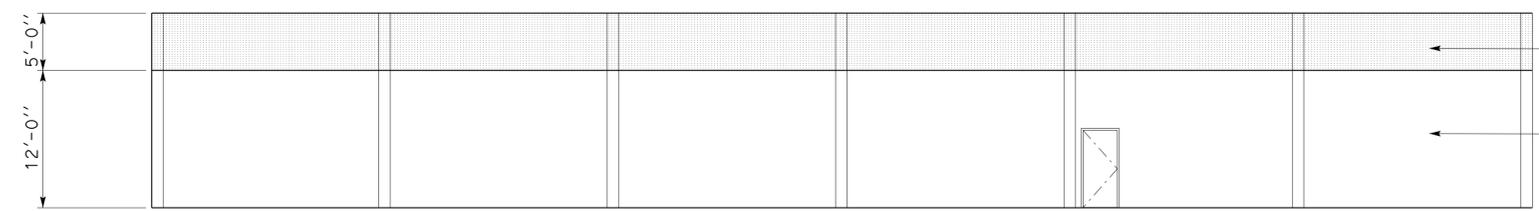
EAST

PROVIDE AND INSTALL PUSH BUTTON DOOR OPERATOR ON (E) EXTERIOR WALL. INSTALL BETWEEN +34" TO +44" ABOVE CONCRETE SLAB.

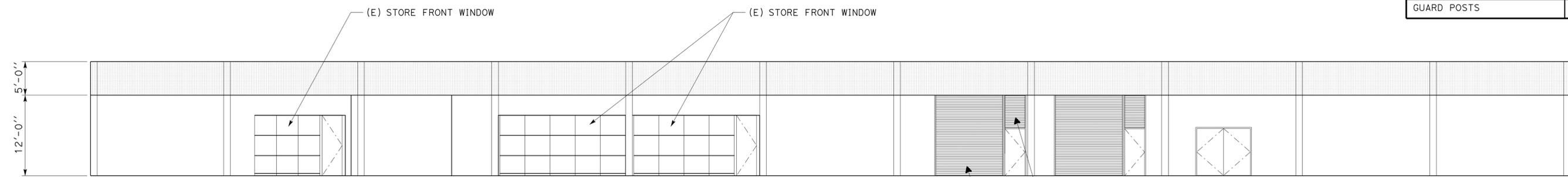
NOTE:
 Manufacturer's designations are listed to indicate color only and does not intend to show preference for a particular brand.

COLOR NO.	FACTORY NAME & NUMBER
1	DUNN EDWARDS DE5210
2	DUNN EDWARDS DE5213
3	DUNN EDWARDS DE 5216
4	DUNN EDWARDS LRV 36
5	DUNN EDWARDS LRV 62

COATING SYSTEMS		
MATERIAL	COLOR NO.	COATING SYSTEM
TEXTURED CONCRETE	2	
SMOOTH CONCRETE	1	
PLASTER SOFFITS	2	
HOLLOW METAL DOORS	3	4
PRESSED METAL FRAMES	3	4
METAL WINDOW FRAMES	3	5
METAL ROLL-UP DOORS	3	5
SIGNAGE MONUMENT	4	2
PARAPET CAP	3	2
MISCELLANEOUS EXPOSED METAL TRIM, FLASHINGS, ETC.	3	4
GUARD POSTS	5	2



SOUTH



WEST

EXTERIOR ELEVATIONS

SCALE 1/8" = 1'-0"

16_a1-2.dgn TAEMWW Imperial Rev. 7/10 17-JUN-2013 09:37	DESIGN BY Anthony V. Manansala CHECKED Donald E. Alsey DETAILS BY Anthony V. Manansala CHECKED Donald E. Alsey QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 57M5506 POST MILE 21.8	KEARNY MESA MATERIALS LAB SEISMIC UPGRADE EXTERIOR ELEVATIONS	SHEET A1-2
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3582 11000003451	DISREGARD PRINTS BEARING EARLIER REVISION DATES 03-08-12 XX-XX-XX	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF X X		

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		18	78

Anthony V. Manansala 1/03/2013
 LICENSED ARCHITECT DATE
 ANTHONY V. MANANSALA
 No. C-32260
 Exp. 04/30/15
 STATE OF CALIFORNIA

05-06-13
 PLANS APPROVAL DATE
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EXISTING SUSPENDED ACOUSTIC CEILING LOCATIONS

SKYLIGHT, TYPICAL (6) TO BE REPLACED

PROVIDE AND INSTALL R-19 BATT INSULATION ABOVE SUSPENDED ACOUSTICAL CEILING THROUGHOUT BUILDING, TYP

CONTRACTOR TO REPLACE T-BAR CEILING; LIGHT FIXTURES TO BE REMOVED AND REINSTALLED IN NEW T-BAR CEILING, Typ. CONTRACTOR TO REPAIR ANY DAMAGE TO GYPSUM BOARD CEILING, Typ.

1 REFLECTED CEILING PLAN
 SCALE 3/32" = 1'-0"



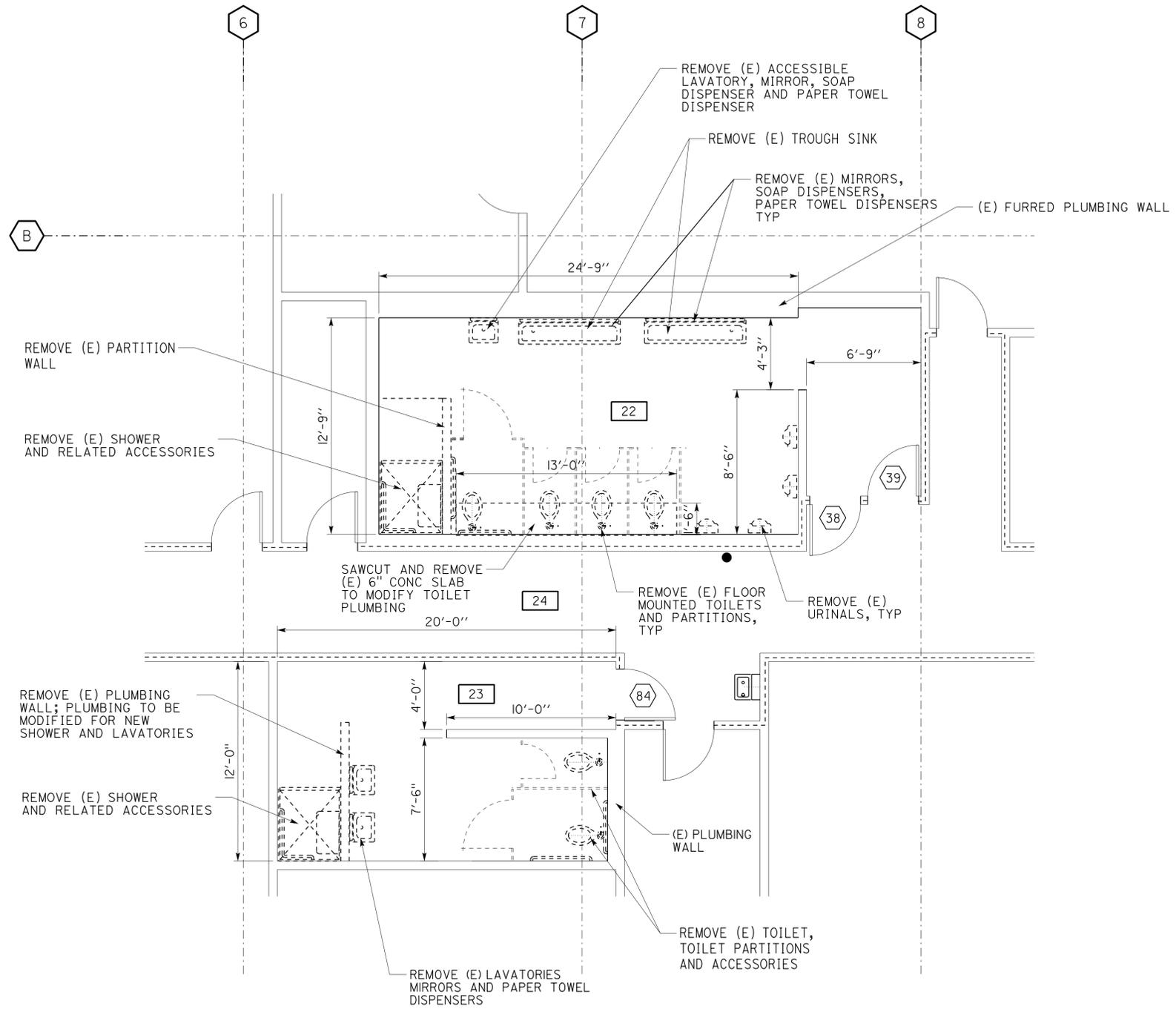
18_a1-4.dgn	TAEMWW Imperial Rev. 7/10	17-JUN-2013 09:37	DESIGN BY Anthony V. Manansala CHECKED Donald E. Alsey	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 57M5506 POST MILE 21.8	KEARNY MESA MATERIALS LAB SEISMIC UPGRADE	REFLECTED CEILING PLAN	SHEET A1-4
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT PROJECT NUMBER & PHASE 3582 11000003451	EA 11-287701	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF X X	17-JUN-2013 09:37

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		19	78

ANTHONY V. MANANSALA 1/03/2013
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Note: Remove all Gyp Board in Restrooms (walls and ceiling) and replace with water resistant green board.



RESTROOM REMOVAL PLAN
SCALE 1/4" = 1'-0"

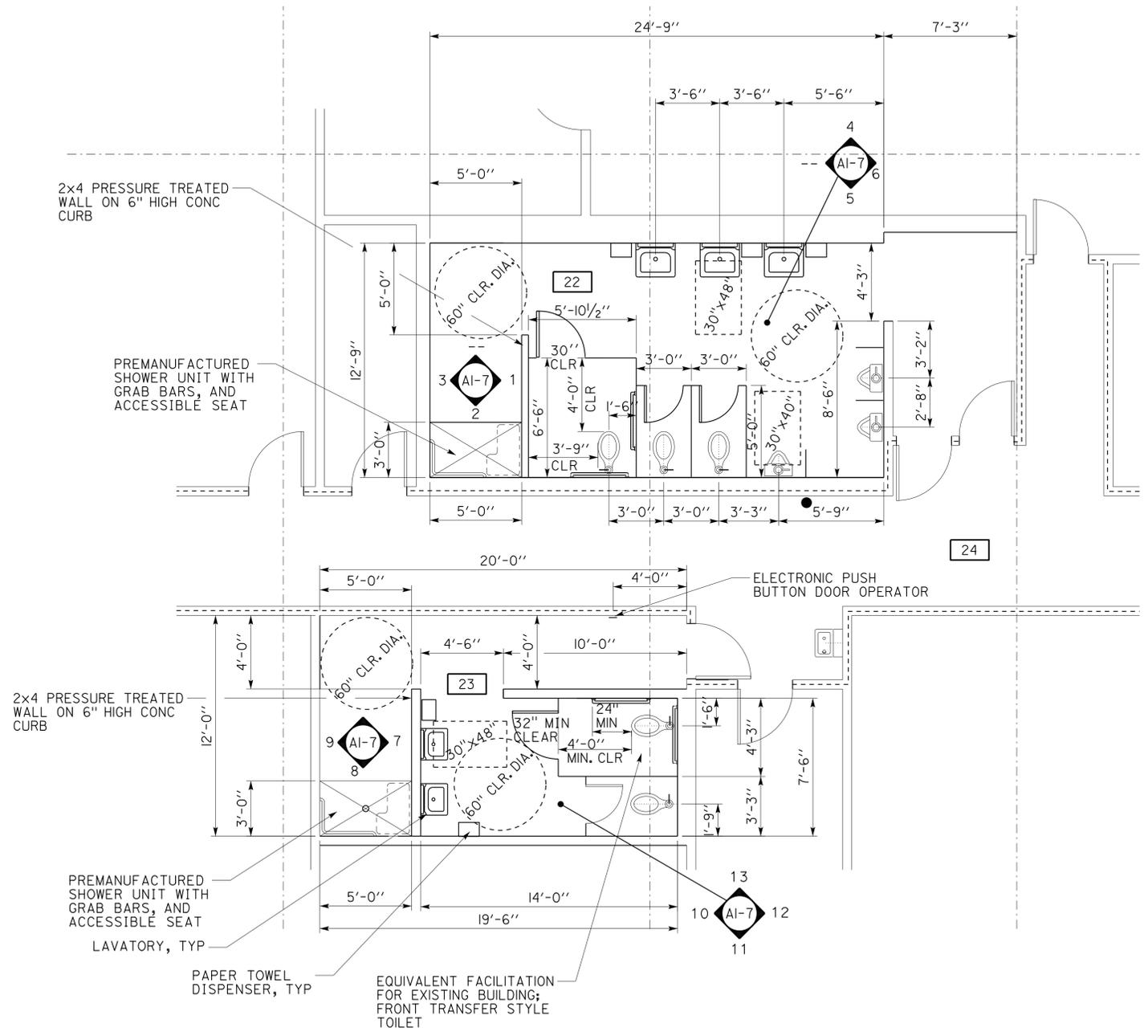
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT PROJECT NUMBER & PHASE 3582 11000003451		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 03-08-12 XX-XX-XX

17-JUN-2013 09:37

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		20	78

Anthony V. Manansala 1/03/2013
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RESTROOM MODIFIED PLAN
 SCALE 1/4" = 1'-0"

20_a1-6.dgn	DESIGN BY Anthony V. Manansala	CHECKED Donald E. Alsey	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 57M5506	KEARNY MESA MATERIALS LAB SEISMIC UPGRADE RESTROOM MODIFIED PLAN	SHEET OF A1-6	
TAEMWW Imper1al Rev. 7/10	DETAILS BY Anthony V. Manansala	CHECKED Donald E. Alsey		ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE 21.8		REVISION DATES (PRELIMINARY STAGE ONLY)	X X
17-JUN-2013 09:37	QUANTITIES BY	CHECKED		PROJECT NUMBER & PHASE 11000003451	DISREGARD PRINTS BEARING EARLIER REVISION DATES		03-08-12 XX-XX-XX	X X

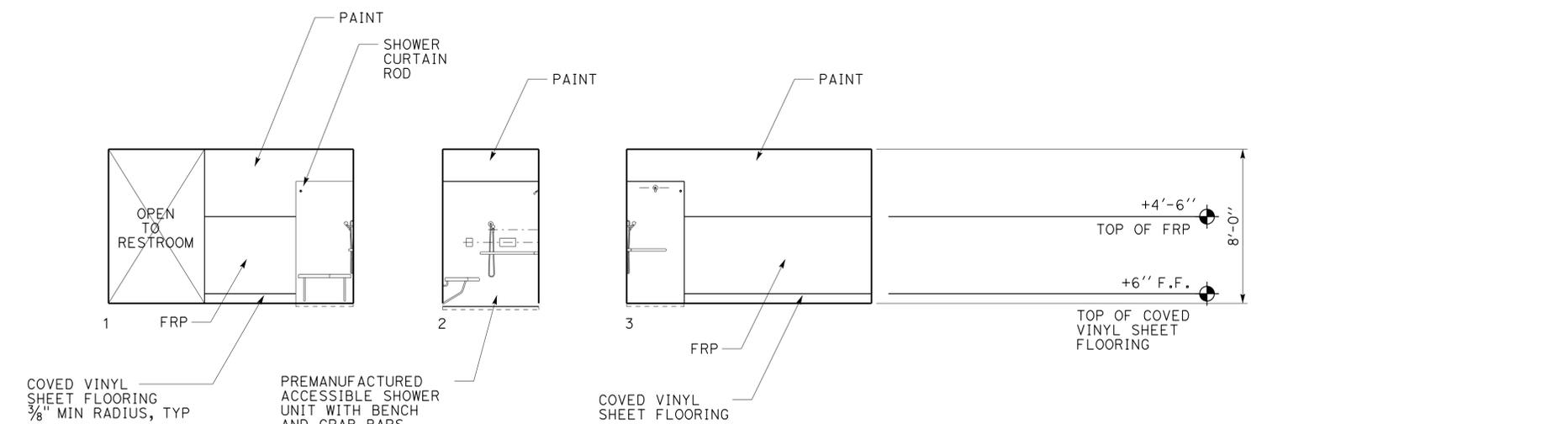
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 UNIT PROJECT NUMBER & PHASE: 3582 11000003451
 EA 11-287701

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		21	78

LICENSED ARCHITECT
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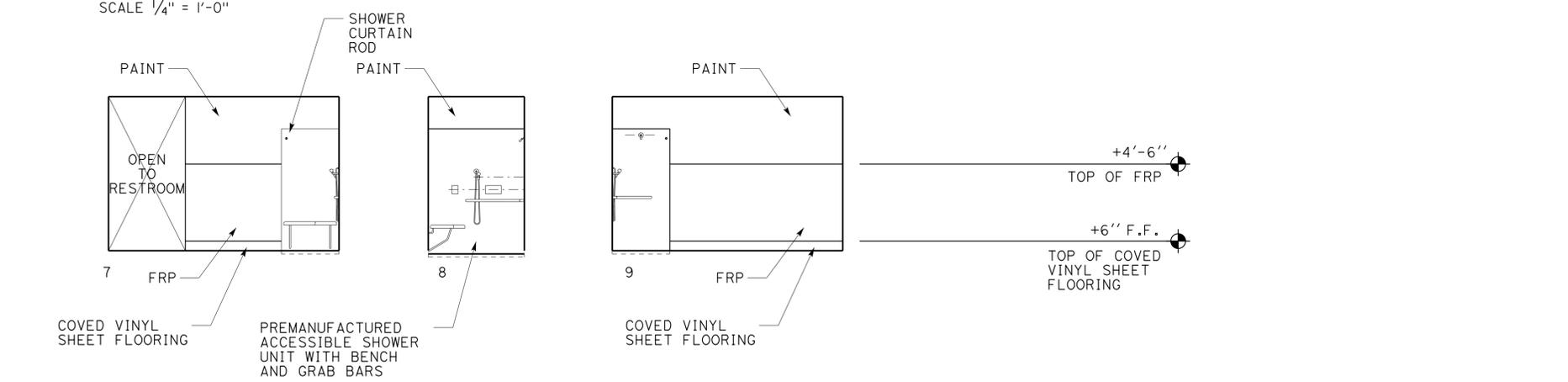
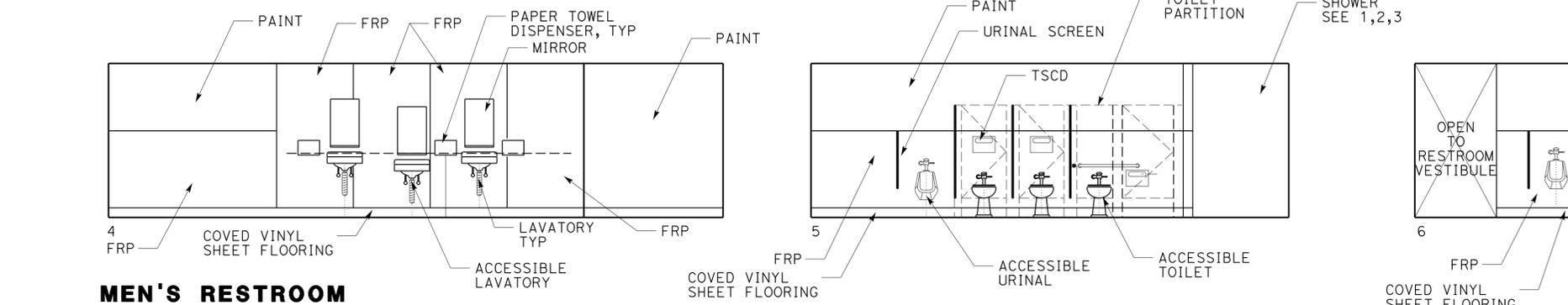
05-06-13
 PLANS APPROVAL DATE

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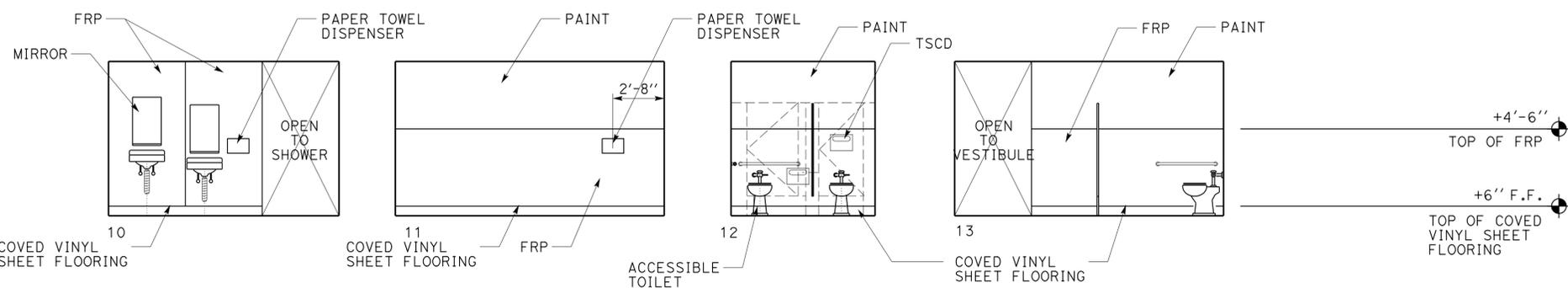
MEN'S RESTROOM

SCALE 1/4" = 1'-0"



WOMEN'S RESTROOM

SCALE 1/4" = 1'-0"



NOTE:
FOR INSTALLATION OF ACCESSIBLE PLUMBING FIXTURES
AND ACCESSORIES SEE SHEETS A0-3.4, AND A0-3.5.

ACCESSIBILITY DESIGN APPROVAL STAMP
 DOT / DES / OTA
 PROJECT ID
1100000345
 Reviewed by: *[Signature]*
 Date: 04-11-2013

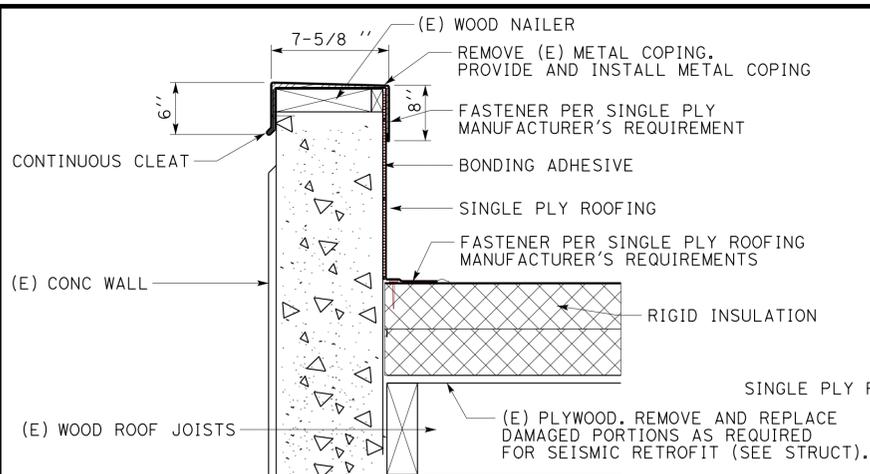
CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *[Signature]*
 FRANCIS SOLICH
 Approval date: 03-26-2013
 CSFM No. 01-37-11-0062

21_a1-7.dgn	TAEMWW Imper1al Rev. 7/10	17-JUN-2013	09:37	DESIGN BY Anthony V. Manansala CHECKED Donald E. Alsey DETAILS BY Anthony V. Manansala CHECKED Donald E. Alsey QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 57M5506 POST MILE 21.8	KEARNY MESA MATERIALS LAB SEISMIC UPGRADE RESTROOM INTERIOR ELEVATIONS	SHEET OF A1-7 X X
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3				UNIT PROJECT NUMBER & PHASE 3582 11000003451	DISREGARD PRINTS BEARING EARLIER REVISION DATES → 03-08-12 XX-XX-XX				REVISION DATES (PRELIMINARY STAGE ONLY)

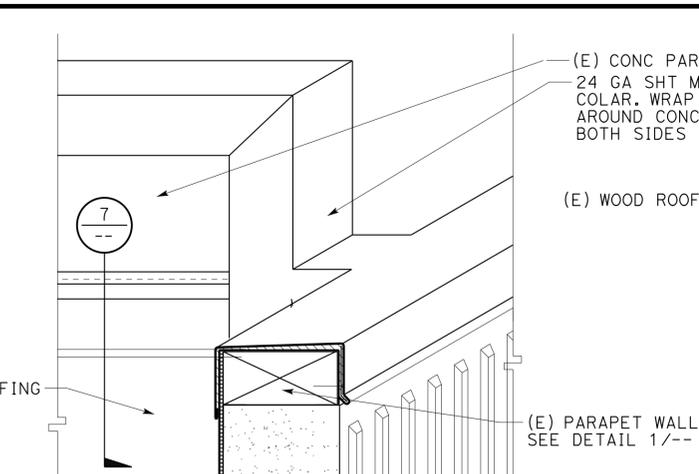
17-JUN-2013 09:37

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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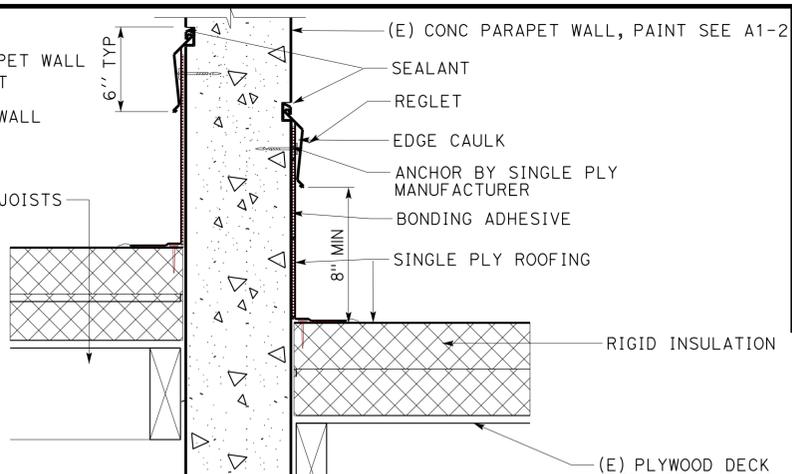
05-06-13 PLANS APPROVAL DATE	1/03/2013 DATE
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1 ROOFING AT PARAPET
SCALE 1/2" = 1'-0"

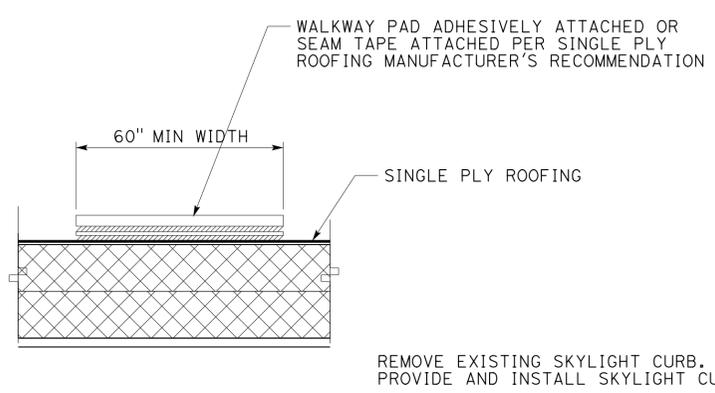


4 ROOFING AT PARAPET
NOT TO SCALE

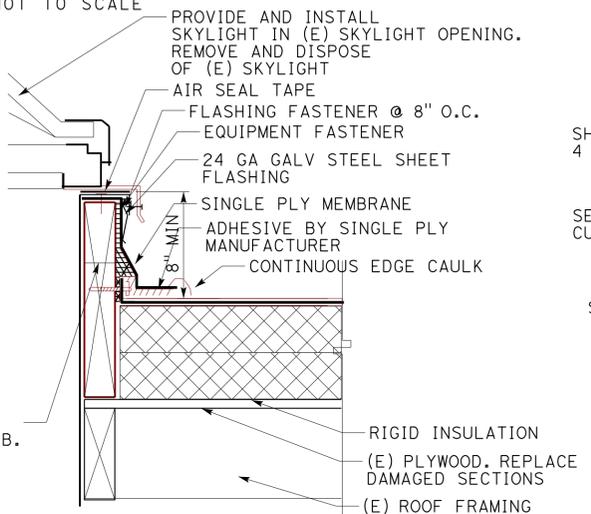


7 ROOFING AT PARAPET
SCALE 1/2" = 1'-0"

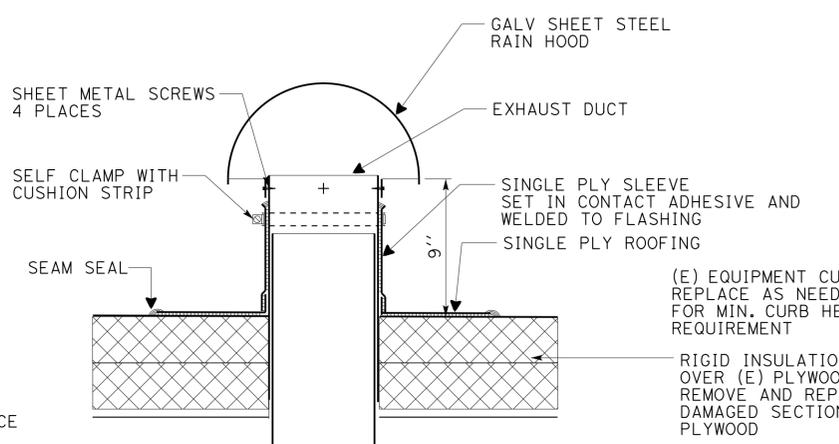
ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID 1100000345	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
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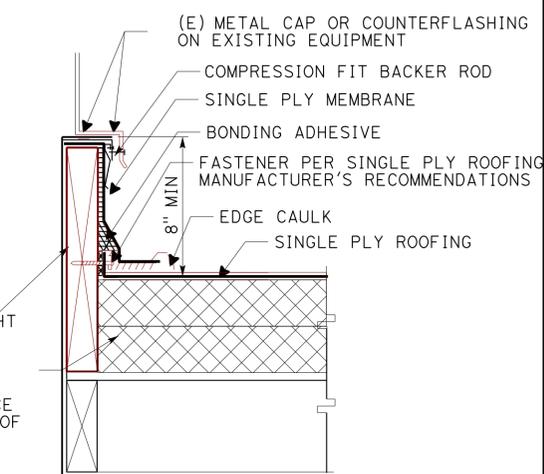
2 WALKPAD
NOT TO SCALE



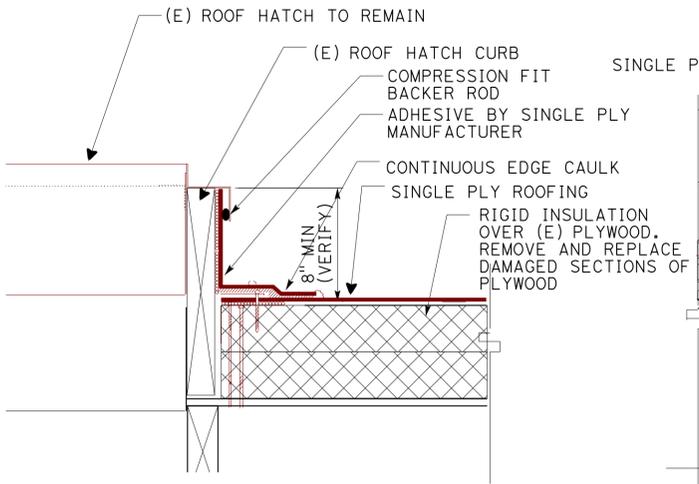
5 SKYLIGHT
SCALE 1/2" = 1'-0"



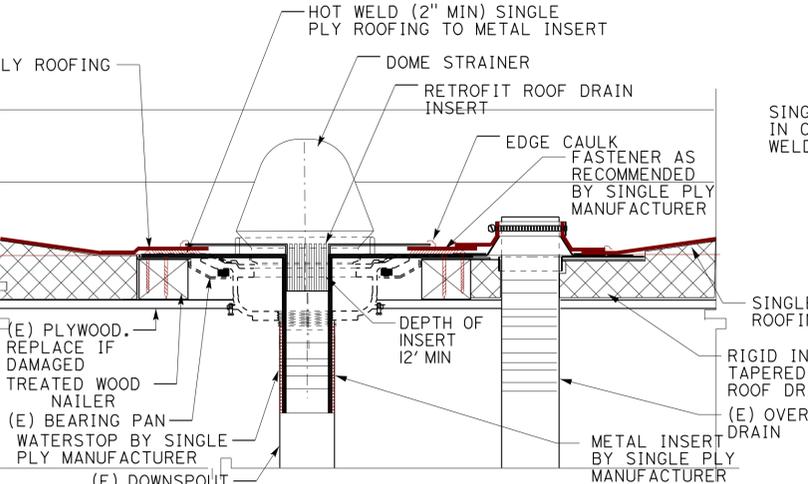
8 EXHAUST VENT
SCALE 1/2" = 1'-0"



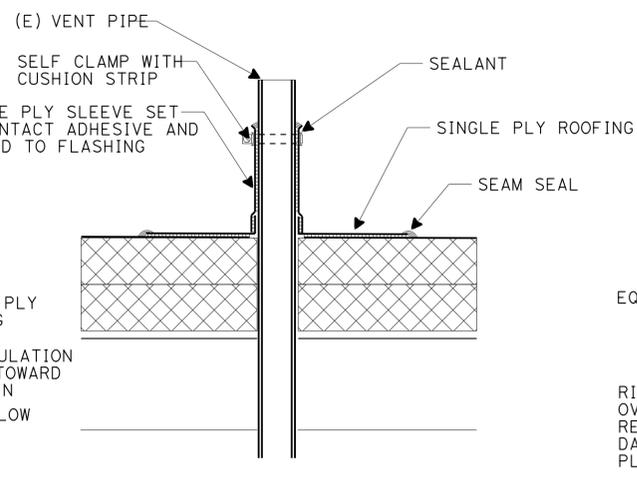
10 ROOFING AT (E) EQUIPMENT CURB
SCALE 1/2" = 1'-0"



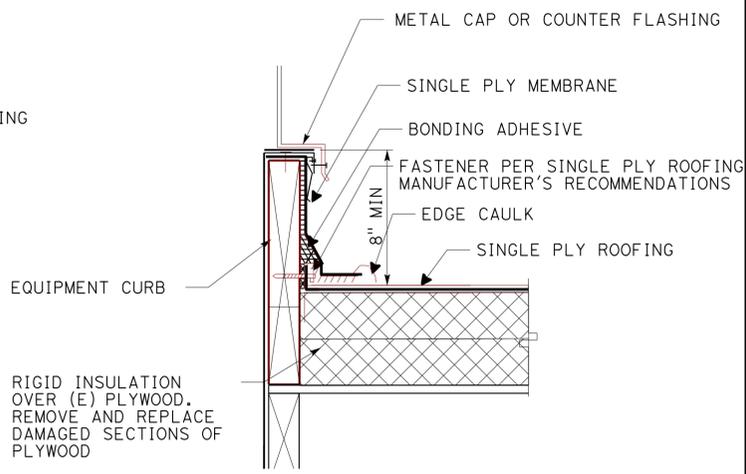
3 ROOFING AT (E) ROOF HATCH
SCALE 1/2" = 1'-0"



6 ROOF DRAIN AND OVERFLOW
SCALE 1/2" = 1'-0"



9 PLUMBING VENT
SCALE 1/2" = 1'-0"



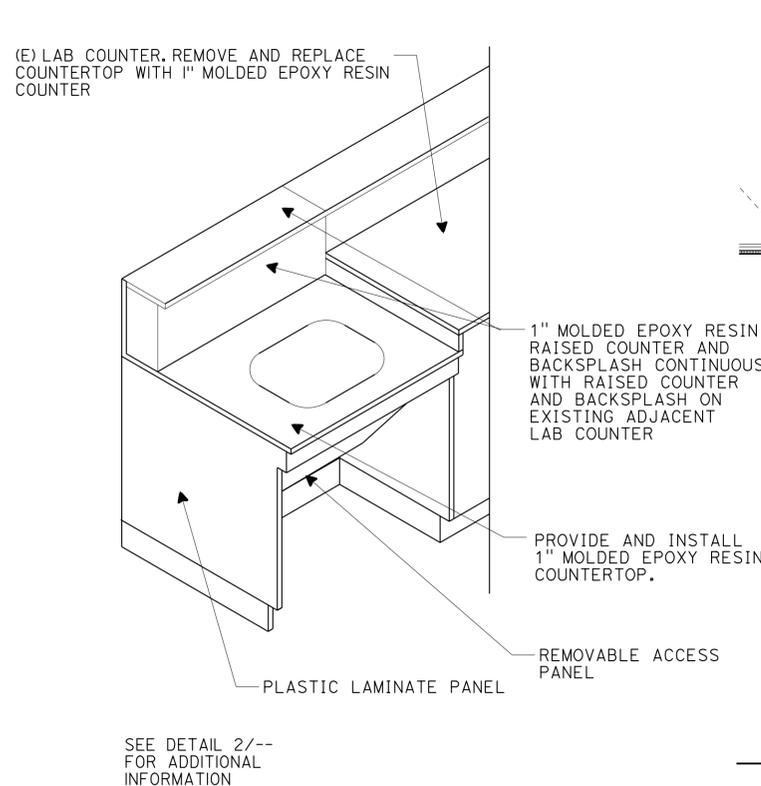
11 ROOFING CURB AT MECHANICAL EQUIPMENT
SCALE 1/2" = 1'-0"

22_a2-1.dgn	17-JUN-2013 09:37	DESIGN BY Anthony V. Manansala CHECKED Donald E. Alsey DETAILS BY Anthony V. Manansala CHECKED Donald E. Alsey QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 57M5506 POST MILE 21.8	KEARNY MESA MATERIALS LAB SEISMIC UPGRADE ROOF DETAILS	SHEET OF A2-1
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT PROJECT NUMBER & PHASE 3582 11000003451	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 03-08-12 XX-XX-XX		SHEET OF X X

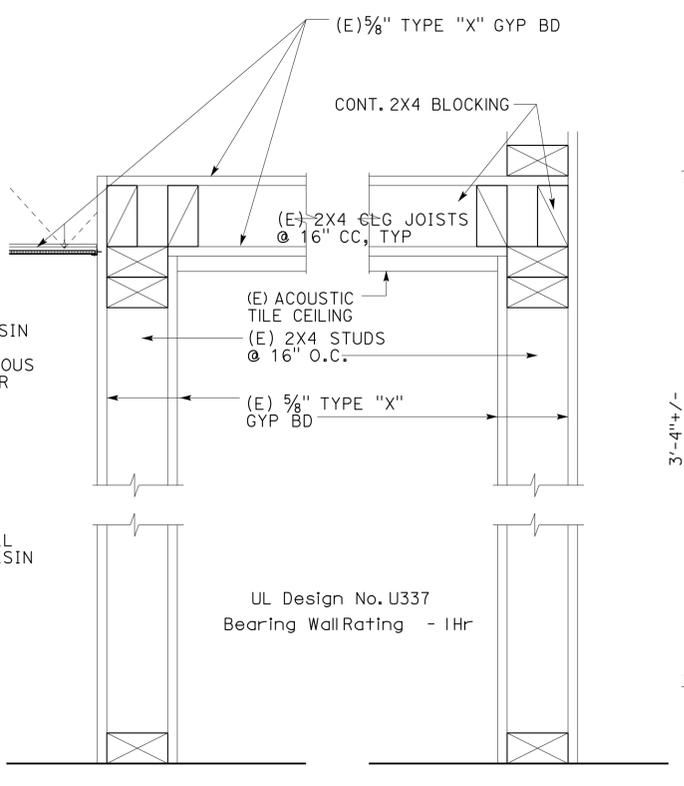
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		23	78

05-06-13 PLANS APPROVAL DATE	DATE

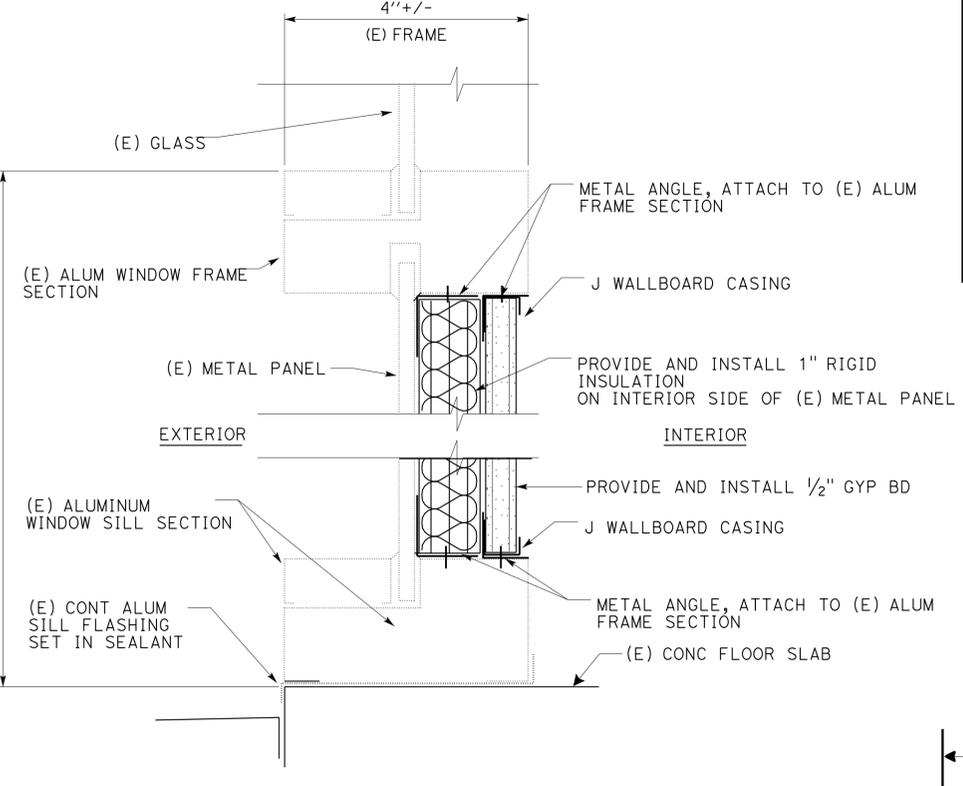
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



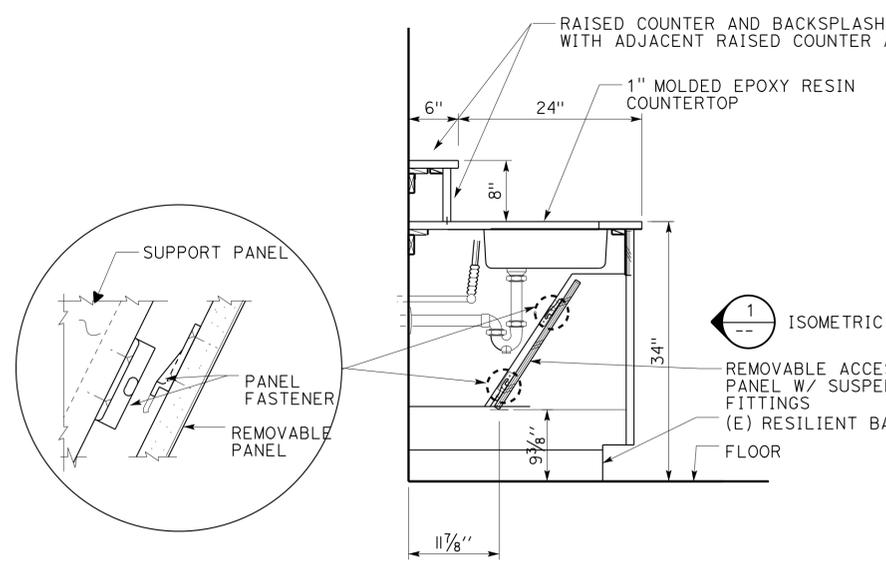
1 ACCESSIBLE COUNTER ISOMETRIC
NOT TO SCALE



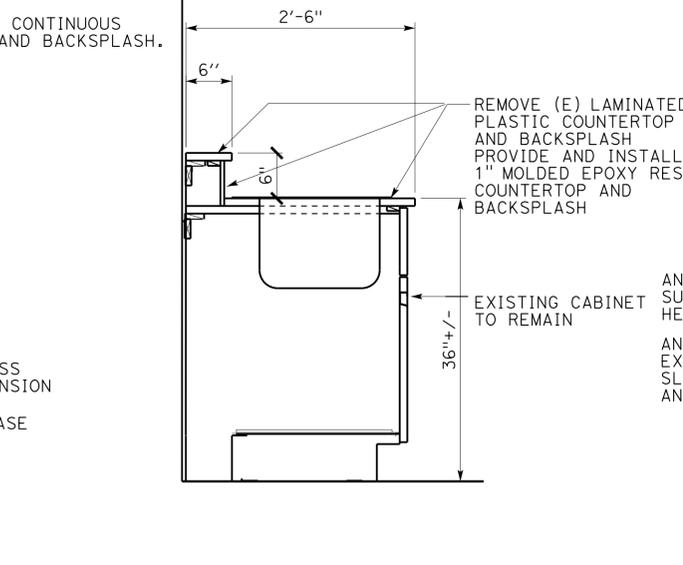
6 EXISTING RATED TUNNEL CORRIDOR (FOR REFERENCE ONLY)
SCALE 2" = 1'-0"



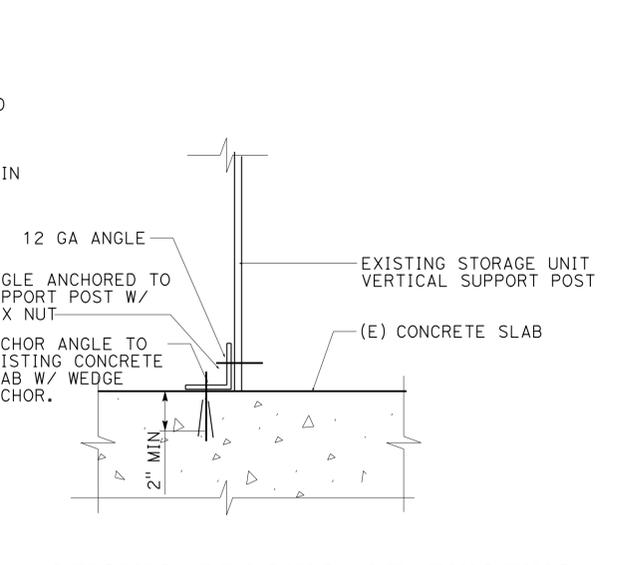
7 RETROFIT INSULATION
SCALE 8" = 1'-0"



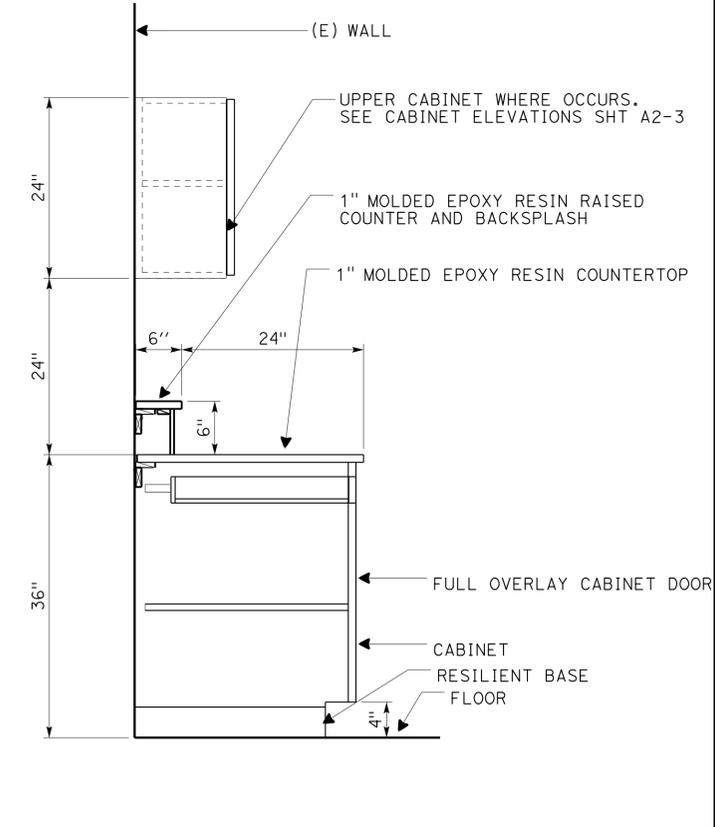
2 ACCESSIBLE LAB COUNTER
SCALE 1" = 1'-0"



3 TYP. EXISTING LAB COUNTER
SCALE 1" = 1'-0"



4 SEISMIC BRACING AT EXISTING STORAGE UNITS
SCALE 1" = 1'-0"

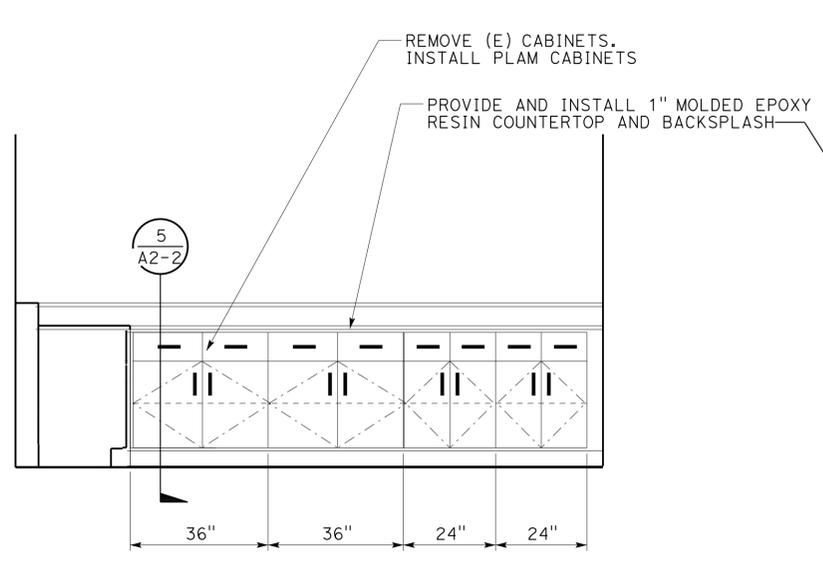


5 ACCESSIBLE COUNTER ELEVATION
NOT TO SCALE

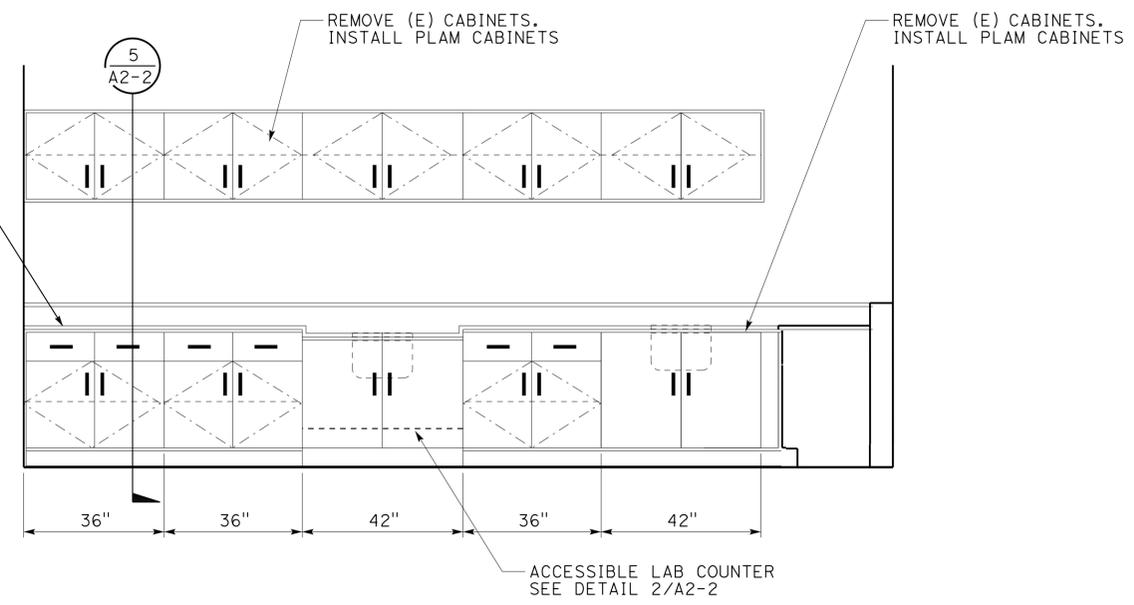
DESIGN BY Anthony V. Manansala CHECKED Donald E. Alsey	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 57M5506 POST MILE 21.8	KEARNY MESA MATERIALS LAB SEISMIC UPGRADE MISCELLANEOUS DETAILS	SHEET OF A2-2
DETAILS BY Anthony V. Manansala CHECKED Donald E. Alsey		UNIT PROJECT NUMBER & PHASE 3582 11000003451	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)
QUANTITIES BY CHECKED		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	EA 11-287701	03-08-12 XX-XX-XX	23_a2-2.dgn

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		24	78

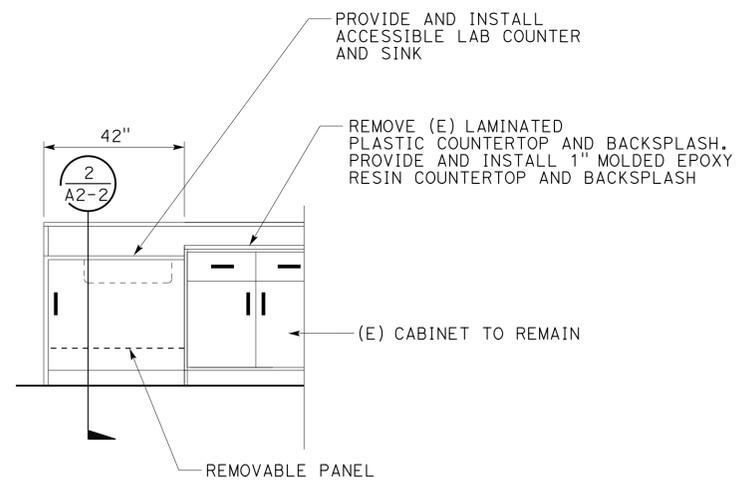
<i>Anthony V. Manansala</i> 1/03/2013		
LICENSED ARCHITECT	DATE	
05-06-13 PLANS APPROVAL DATE		
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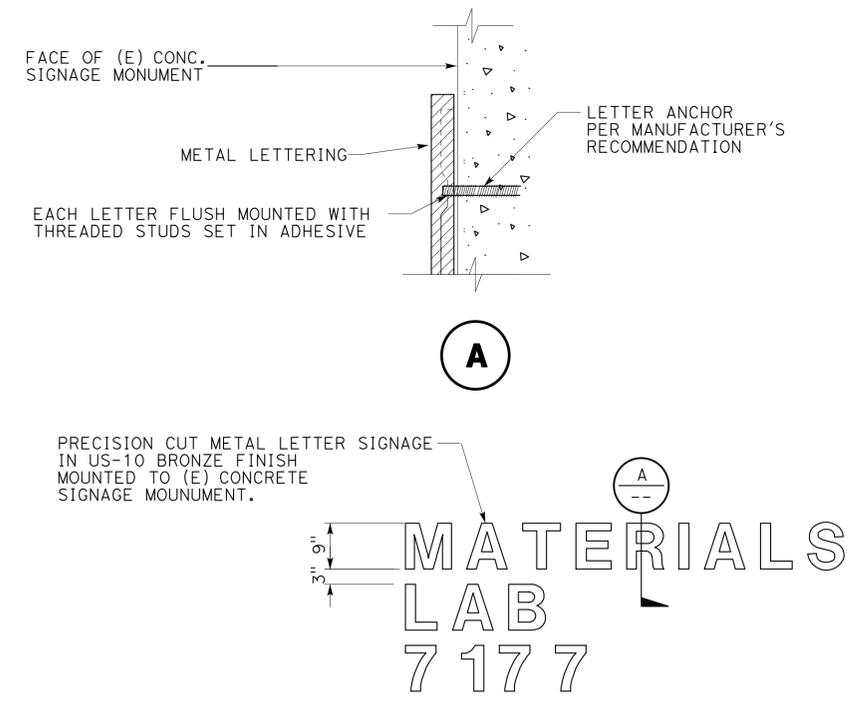
1 LAB COUNTER ELEVATION
SCALE 1/2" = 1'-0"



2 LAB COUNTER ELEVATION
SCALE 1/2" = 1'-0"



3 ACCESSIBLE COUNTER ELEVATION
SCALE 1/2" = 1'-0"



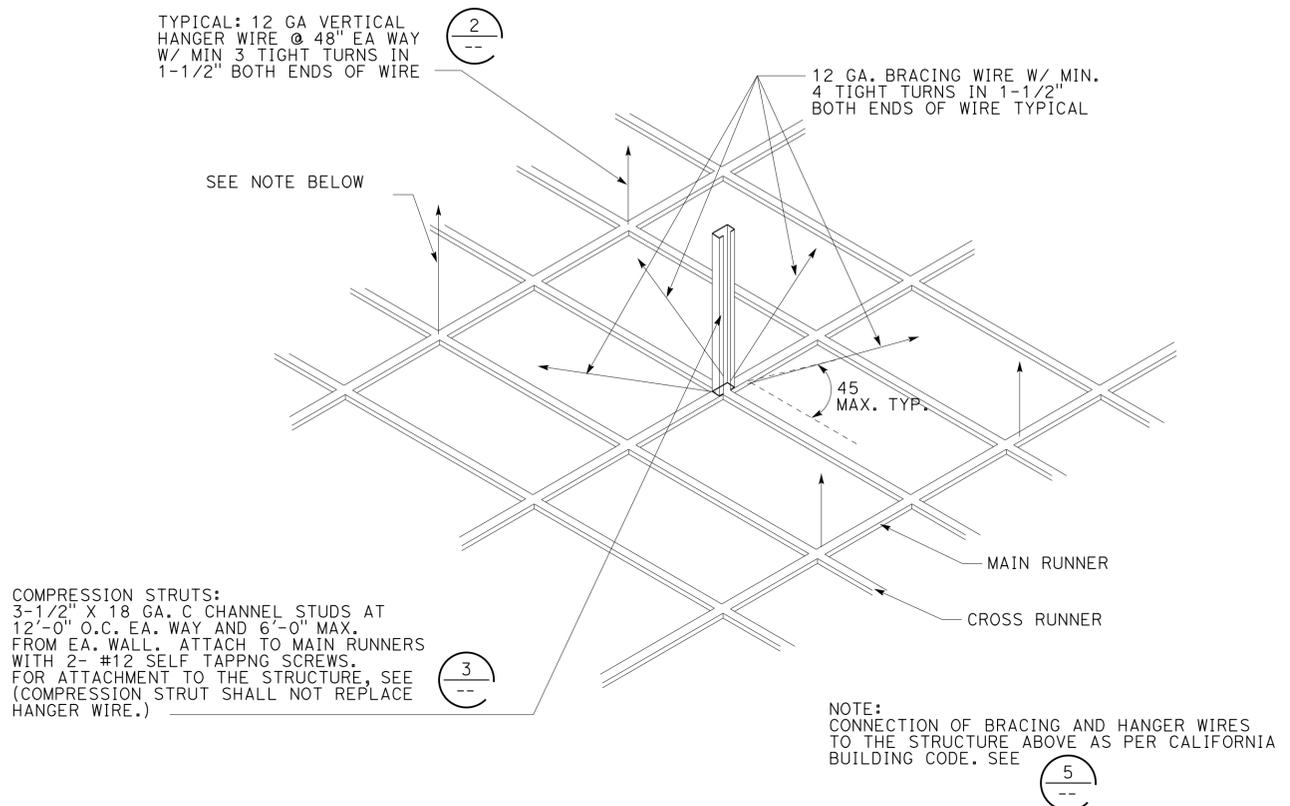
4 SIGNAGE DETAIL
NOT TO SCALE

ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID 1100000345	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by: <i>[Signature]</i> Date: 04-11-2013	Reviewed by: <i>[Signature]</i> FRANCIS SOLICH Approval date: 03-26-2013 CSFM No. 01-37-11-0062

24_a2-3.dgn TAEMWW Imperial Rev. 7/10 17-JUN-2013 09:37	DESIGN BY Anthony V. Manansala	CHECKED Donald E. Alsey	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 57M5506	KEARNY MESA MATERIALS LAB SEISMIC UPGRADE LAB COUNTER ELEVATIONS AND SIGNAGE DETAILS	SHEET OF A2-3
	DETAILS BY Anthony V. Manansala	CHECKED Donald E. Alsey		UNIT PROJECT NUMBER & PHASE 3582 11000003451	POST MILE 21.8		REVISION DATES (PRELIMINARY STAGE ONLY)
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			DISREGARD PRINTS BEARING EARLIER REVISION DATES		03-08-12 XX-XX-XX	17-JUN-2013 09:37	

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		25	78
 LICENSED ARCHITECT DATE 03/03/2013					
05-06-13 PLANS APPROVAL DATE					
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ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID 1100000345	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by:  Date: 04-11-2013	Reviewed by:  FRANCIS SOLICH Approval date: 03-26-2013 CSFM No. 01-37-11-0062

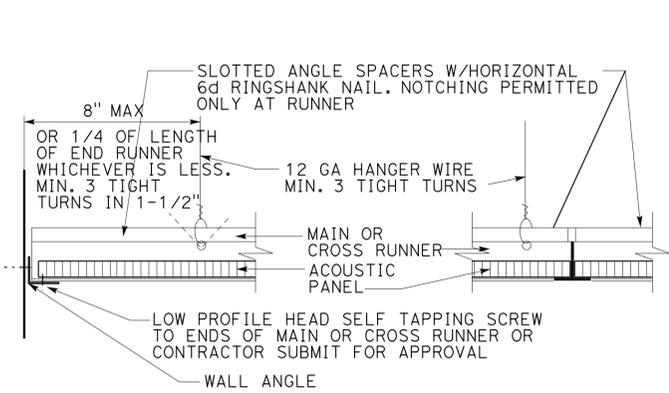


NOT USED

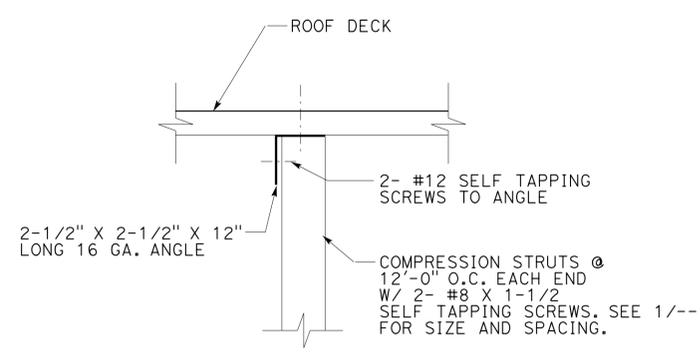
4 NOT USED

NO SCALE

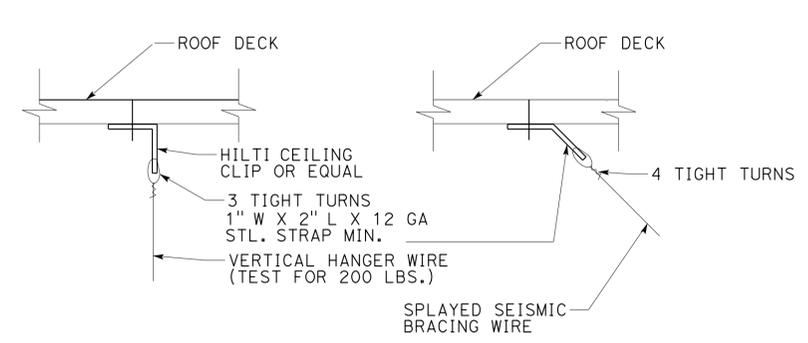
1 SUSPENDED ACOUSTICAL CEILING
NO SCALE



2 SUSPENDED PANEL CEILING
NO SCALE



3 COMPRESSION STRUT
NO SCALE



5 HANGER WIRE ANCHORAGE
NO SCALE

25_a2-4.dgn	TAEMWW Imper1al Rev. 7/10	17-JUN-2013 09:37	DESIGN BY Anthony V. Manansala CHECKED Donald E. Alsey DETAILS BY Anthony V. Manansala CHECKED Donald E. Alsey QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 57M5506 POST MILE 21.8	KEARNY MESA MATERIALS LAB SEISMIC UPGRADE MISCELLANEOUS CEILING DETAILS	SHEET OF A2-4 X X
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT PROJECT NUMBER & PHASE	3582 11000003451	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 03-08-12 XX-XX-XX

17-JUN-2013 09:37

INTERIOR ITEMS		
MATERIAL	COLOR NO.	COATING SYSTEM
T-BAR CEILING	6	--
WALLS	1	4, 6
VCT	2	--
BASE	3	--
FRP	7	--
PLASTIC LAMINATE BASE	4	--
MOLDED EPOXY RESIN COUNTER	5	--
VINYL SHEET FLOORING	8	--

COLOR NO.	FACTORY NAME & NUMBER
1	DUNN EDWARDS DEW380
2	ARMSTRONG 51858 SANDRIFT WHITE
3	BURKE 104 FUDGE
4	WILSONART 4846-60 MORRO ZEPHYR
5	BLACK ONYX
6	OFF-WHITE
7	WHITE
8	ARMSTRONG LP510 NOT SO INNOCENT (WOMENS), ARMSTRONG LP527 TWILIGHT (MENS)

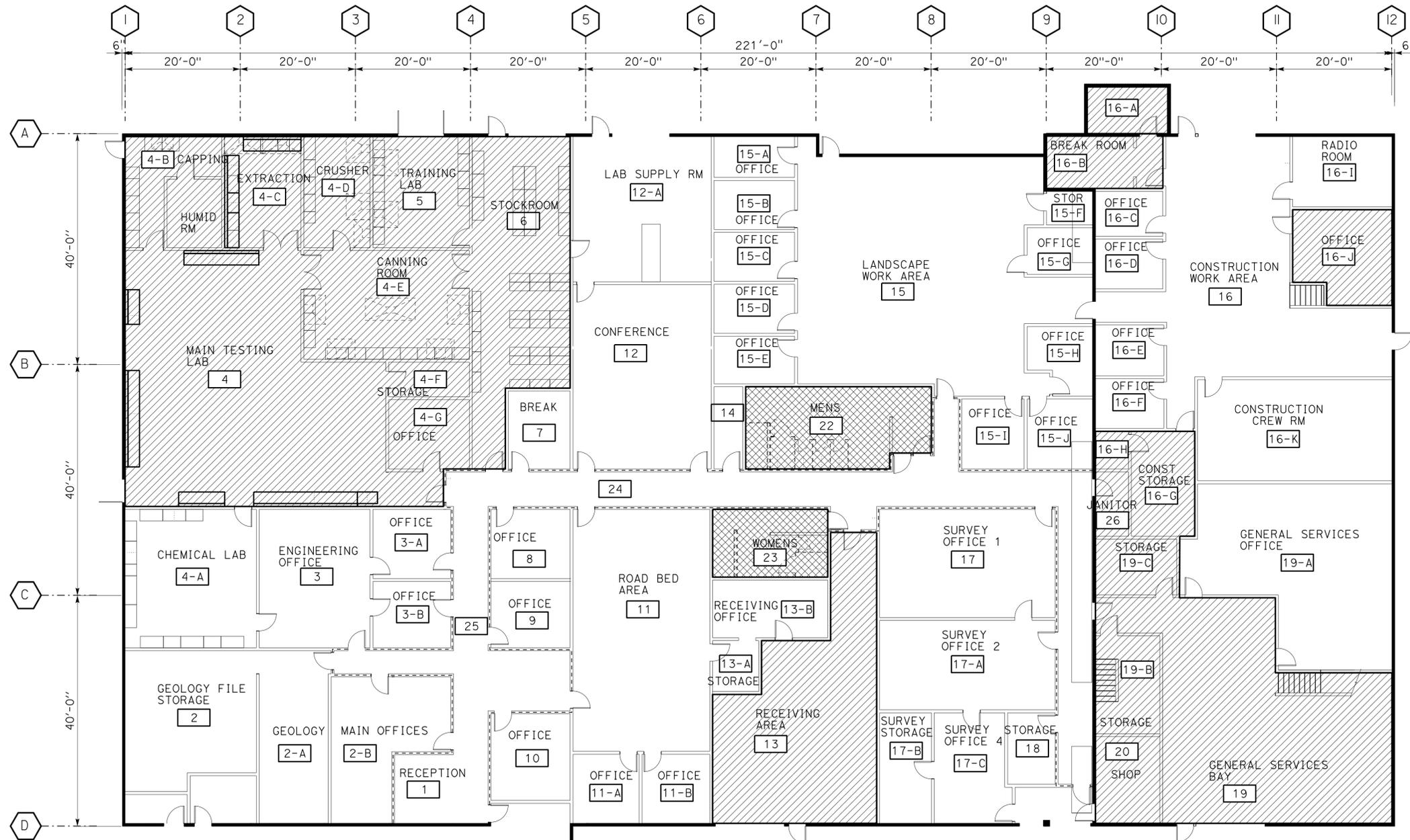
NOTE:
Manufacturer's designations are listed to indicate color only and does not intend to show preference for a particular brand.

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		26	78

Licensed Architect
 Anthony V. Manansala
 No. C-32260
 Exp. 04/30/15
 State of California

ACCESSIBILITY DESIGN APPROVAL STAMP
 DOT / DES / OTA
 PROJECT ID: 1100000345
 Reviewed by: [Signature]
 Date: 04-11-2013

CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: [Signature]
 FRANCIS SOLICH
 Approval date: 03-26-2013
 CSFM No. 01-37-11-0062



LEGEND

[Cross-hatch pattern]	VINYL SHEET FLOORING
[Diagonal lines pattern]	CONCRETE
[White box]	VINYL COMPOSITE TILE

FLOOR FINISH PLAN

SCALE 3/32" = 1'-0"

26_a2-5.dgn TAEMWW Imperial Rev. 7/10 17-JUN-2013 09:37	<table border="1"> <tr> <td>DESIGN</td> <td>BY Anthony V. Manansala</td> <td>CHECKED Donald E. Alsey</td> </tr> <tr> <td>DETAILS</td> <td>BY Anthony V. Manansala</td> <td>CHECKED Donald E. Alsey</td> </tr> <tr> <td>QUANTITIES</td> <td>BY</td> <td>CHECKED</td> </tr> </table>	DESIGN	BY Anthony V. Manansala	CHECKED Donald E. Alsey	DETAILS	BY Anthony V. Manansala	CHECKED Donald E. Alsey	QUANTITIES	BY	CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 57M5506 POST MILE 21.8	KEARNY MESA MATERIALS LAB SEISMIC UPGRADE FINISH SCHEDULE	SHEET A2-5 OF X X
DESIGN	BY Anthony V. Manansala	CHECKED Donald E. Alsey													
DETAILS	BY Anthony V. Manansala	CHECKED Donald E. Alsey													
QUANTITIES	BY	CHECKED													
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT PROJECT NUMBER & PHASE 3582 11000003451		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 03-08-12 XX-XX-XX									

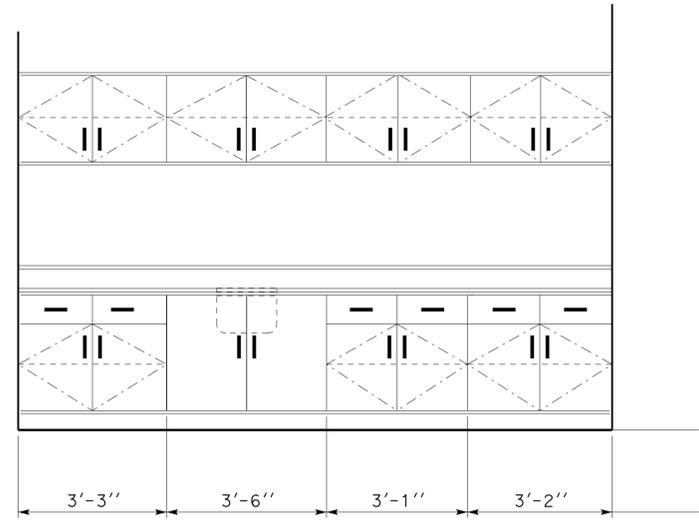
17-JUN-2013 09:37

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		27	78

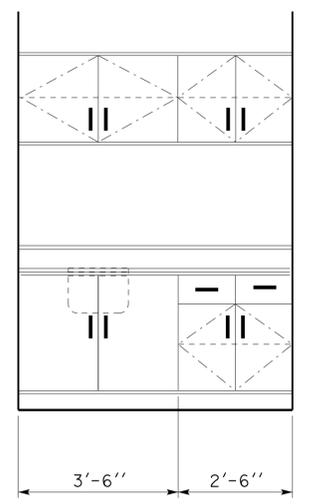
 1/03/2013
 LICENSED ARCHITECT DATE
 ANTHONY V. MANANSALA
 No. C-32260
 Exp. 04/30/15
 STATE OF CALIFORNIA

05-06-13
 PLANS APPROVAL DATE
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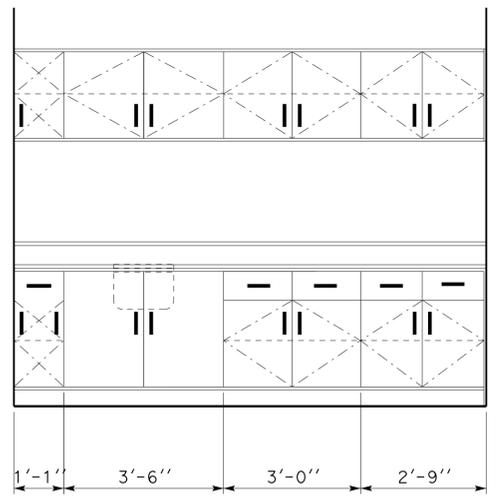
ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID 1100000345 Reviewed by:  Date: 04-11-2013	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by:  FRANCIS SOLICH Approval date: 03-26-2013 CSFM No. 01-37-11-0062
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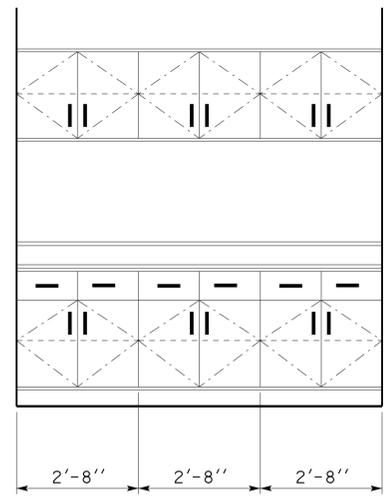
3 LAB COUNTER ELEVATION
SCALE 1/2"=1'-0"



4 LAB COUNTER ELEVATION
SCALE 1/2"=1'-0"

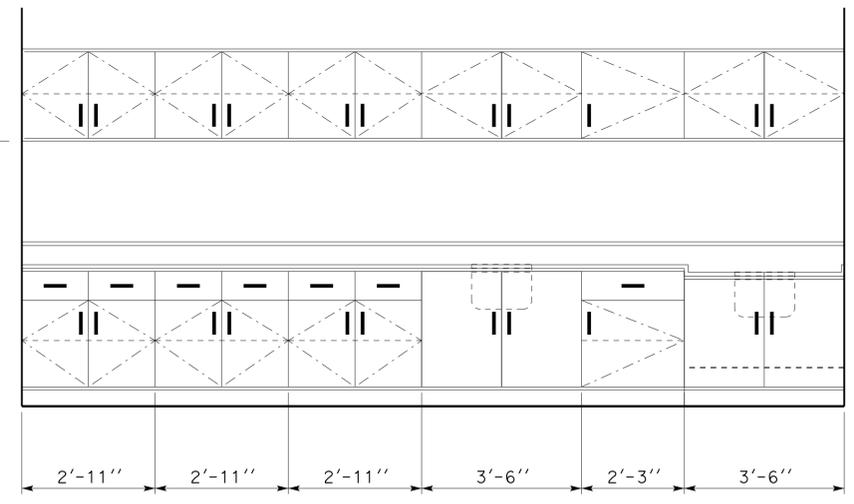


5 LAB COUNTER ELEVATION
SCALE 1/2"=1'-0"



6 LAB COUNTER ELEVATION
SCALE 1/2"=1'-0"

+5'-9 1/2"
Typ.



7 LAB COUNTER ELEVATION
SCALE 1/2"=1'-0"

27_a2-6.dgn TAEMWW Imperial Rev. 7/10 17-JUN-2013 09:37	DESIGN BY Anthony V. Manansala	CHECKED Donald E. Alsey	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 57M5506	KEARNY MESA MATERIALS LAB SEISMIC UPGRADE LAB COUNTER ELEVATIONS	SHEET OF A2-6
	DETAILS BY Anthony V. Manansala	CHECKED Donald E. Alsey		ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE 21.8		REVISION DATES (PRELIMINARY STAGE ONLY)
QUANTITIES BY	CHECKED			UNIT PROJECT NUMBER & PHASE 3582 11000003451	DISREGARD PRINTS BEARING EARLIER REVISION DATES	03-08-12 XX-XX-XX	X X

17-JUN-2013 09:37

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		28	78

Dai Lu
 REGISTERED CIVIL ENGINEER
 No. 67416
 Exp. 12-31-14
 CIVIL
 STATE OF CALIFORNIA

05-06-13
 PLANS APPROVAL DATE
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ABBREVIATIONS

AAD	ADHESIVE ANCHORAGE DEVICE	HD	HOLDOWN
AB	ANCHOR BOLT	Hex	HEXAGON
AC	ASPHALT CONCRETE	Horiz	HORIZONTAL
Alt	ALTERNATE	HSB	HIGH STRENGTH BOLT
APA	AMERICAN PLYWOOD ASSOCIATION	HSS	HOLLOW STRUCTURAL SECTION
APC	ALTERNATIVE PIPE CULVERT	Jt	JOINT
Bldg	BUILDING	LOL	LAYOUT LINE
Blkg	BLOCKING	LVL	LAMINATED VENEER LUMBER
BN	BOUNDARY NAILING	m	METER
Btm	BOTTOM	Max	MAXIMUM
CB	CARRIAGE BOLT	MEA	MECHANICAL EXPANSION ANCHOR
CIDH	CAST IN DRILLED HOLE	Mech	MECHANICAL
CJ	CONTROL JOINT	Mfr	MANUFACTURER
Clr	CLEAR	mm	MILLIMETER
CMU	CONCRETE MASONRY UNIT	Min	MINIMUM
Conc	CONCRETE	MIW	MALLEABLE IRON WASHER
Const	CONSTRUCTION	OC	ON CENTER
Cont	CONTINUOUS	OG	ORIGINAL GRADE
CP	COMPLETE PENETRATION WELD	OH	OPPOSITE HAND
DbI	DOUBLE	Opt	OPTIONAL
DF	DOUGLAS FIR	P	PITCH
Dia	DIAMETER	PDF	POWER DRIVEN FASTENER
DIP	DUSTILE IRON PIPE	Plwd	PLAWOOD
DN	DIAMETER NOMINAL	PT	PRESSURE TREATED
do	DITTO	PW	PUDDLE WELD
(E)	EXISTING	PWB	PREFABRICATED WOOD I BEAM
Ea	EACH	RCP	REINFORCED CONCRETE PIPE
EL	ELEVATION	Reinf	REINFORCED, REINFORCING
Elec	ELECTRICAL	Req'd	REQUIRED
Embed	EMBEDMENT	SDSTS	SELF DRILL, SELF TAP SCREW
EN	EDGE NAIL	Sim	SIMILAR
Eq	EQUAL	SPS	STRUCTURAL PLYWOOD SHEATHING
Exp	EXPANSION	Sq	SQUARE
FDGM	FREE DRAINING GRANULAR MATERIAL	Stagg	STAGGERED
FG	FINISH GRADE	Std	STANDARD
FL	FLOW LINE	SW	STUD WELD
Fir	FLOOR	Sym	SYMMETRICAL
FN	FACE (FIELD) NAIL	T&G	TONGUE-AND-GROOVE
FOC	FACE OF CONCRETE	TN	TOE NAIL
FOM	FACE OF MASONRY	TS	TUBE STEEL
FOS	FACE OF STUD	Typ	TYPICAL
Ftg	FOOTING	UON	UNLESS OTHERWISE NOTED
Ga	GAGE	Vert	VERTICAL
Galv	GALVANIZED		
GLM	GLUE LAMINATED MEMBER		
Gyp Bd	GYPSUM BOARD		

SYMBOLS

	BLOCKING IN SECTION OR ELEVATION		CMU WALL ON PLAN VIEWS
	CONTINUOUS MEMBER IN SECTION		DROPPED SLAB ON PLAN VIEWS
	END OF MEMBER		REINFORCED CONCRETE
	BEARING WALL		SAND
	SHEAR WALL		STRUCTURE BACKFILL
	LENGTH SHEARWALL SCHEDULE SYMBOL REFERENCE		STRUCTURE EXCAVATION
	GLUE LAMINATED MEMBER SECTION		ORIGINAL GROUND
	NORTH ARROW		LIMITS OF STRUCTURE BACKFILL (SHOWN ON PLAN VIEWS)
	PARTIAL SECTION CUT		FREE DRAINING GRANULAR MATERIAL
	FULL SECTION CUT		BOTTOM OF FOOTING
	REVISION CALLOUT		ELEVATION OR WORKING POINT
	GRID LINE INDICATOR		EXISTING FEATURES
	CENTER LINE		HOLDDOWN, Typ (MANUFACTURERS ARE THOSE NOTED IN THE ORDER SHOWN)
	STATION LINE		FRAME CONNECTOR (MANUFACTURERS ARE THOSE NOTED IN THE ORDER SHOWN)
	STEEL PLATE		DETAIL NUMBER OR NOTE NUMBER ADDITIONAL REFERENCE (IF REQUIRED) SHEET NUMBER
	DIAMETER		
	SQUARE		

NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

FILE NO. XS-25-0		DESIGN BY <i>Sean Samuel</i>		CHECKED <i>Joe Glendon</i>		APPROVED <i>R.C. Travis</i>		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO. 57M5506		KEARNY MESA MATERIALS LAB		SHEET ST-1	
DRAWING DATE 1-04		DETAILS BY <i>Peter F. von Savoye, II</i>		CHECKED <i>Sean Samuel</i>		DESIGN SUPERVISOR		DEPARTMENT OF TRANSPORTATION		ARCHITECTURAL AND STRUCTURAL DESIGN		POST MILE 21.8		SEISMIC UPGRADE			
SUBMITTED BY <i>Sean Samuel</i>		DESIGN ENGINEER												LEGEND			
TAEMWW Imperial Rev. 7/10								ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT PROJECT NUMBER & PHASE 3599 11000003451		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	

17-JUN-2013 09:37
 28_st_01.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		29	78

Dai Lu 12-03-12
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
Dai Lu
No. 67416
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA

05-06-13
PLANS APPROVAL DATE

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A FRAMING NOTES

- Dimensions are typically shown to face of stud for exterior walls, to centerline of stud at interior walls, and to centerline of openings. Vertical dimensions are typically shown from rough floor or slab to top of plate or to underside of lintels. Dimensions shown as "clear" are from surface to surface.
- Bearing, shear and exterior walls shall be sheathed with 3/8" structural plywood sheathing.
- All roofs shall be sheathed with 5/8" structural plywood sheathing.
- Plywood for floors and roofs shall be placed face grain perpendicular to supports. Where possible, plywood shall be placed in full sheets and staggered one-half sheet length. Any partial plywood sheet shall not be less than 2'-0" in length or width unless fully blocked. Plywood for wainscots, siding and wall sheathing may be placed parallel to framing and with the C-C plugged face exposed. See Detail 2, sheet ST-1B.
- All wood members shall be Douglas Fir-Larch (DF) quality grade stamped. Grade stamps shall indicate compliance with the grading requirements of WWP, WCLIB or other approved lumber inspection agency.
- Structural plywood sheathing shall be APA grade stamped plywood conforming to Voluntary Product Standard PSI, Grade C-D, Exposure 1. Thickness and span rating shall be as shown on the plans.
- Wood grades (unless otherwise noted):
 - For horizontal members:

Joists & Rafters	Grade #2
Beams & Stringers	Grade #1
Ledgers	Grade #1
 - For vertical members:

2x4 Studs	Construction Grade
2x6 & larger studs	Grade #2
Posts & Timbers	Grade #1
 - Glue laminated beams:

Simple spans	24F-V4 DF/DF
Cantilevers & Continuous	24F-V8 DF/DF
- Glue laminated members shall be engineered, stress rated and factory laminated with adhesive for wet use.
- Exposed members shall be "architectural appearance" grade and non-exposed members shall be "industrial appearance" grade.
- All wood in direct contact with concrete or masonry shall be pressure treated Douglas Fir-Larch.
- Joists framed into the side of wood girders shall be supported by joist hangers.
- Joists shall be supported laterally at the ends and at each support by solid blocking or other approved means except where the ends of joists are nailed to a header, band or rim joist or to an adjoining stud. Solid blocking shall not be less than 2x in thickness and the full depth of the joist.
- Joists and roof rafters 1'-0" or deeper shall have full depth 2x thick solid blocking at 8'-0" maximum spacing.
- Provide 2x blocking to secure fixtures shown on the project plans.
- Joists under and parallel to bearing walls shall be doubled.
- When there are multiple holes and notches in one structural element or when there are holes and notches occurring in more than two consecutive structural elements, the Engineers approval is required, unless the details are shown on plans.
- Notches or cuts in bearing or shear wall studs may be to a depth not exceeding 25% of its width. Wood studs in non-bearing and non-shear walls supporting only their weight may be notched or cut to a depth not greater than 40% (See note 16 above).

- Bored hole diameters shall not exceed 40% of the stud width in bearing walls and 60% in non-bearing walls. The top plates may not be bored or cut, without the Engineer's approval. Neither bearing nor shear wall top plates may be bored greater than 40%, unless detailed on the plans. Holes shall not be closer than 5/8" to the edge of the stud. (See note 16 above)
- When it is necessary to cut the sole plate, sill plate or wood stud for plumbing, heating or other pipes, a 1/16" thick x 1 1/2" wide galvanized metal stud shoe plate shall be fastened w/6-16d to the plate across the opening.
- Equivalent metal bridging or ties may be submitted to the Engineer for approval.

B MECHANICAL FASTENER NOTES

- The clearance holes for lag screw shanks shall be the same diameter and depth as the unthreaded shank. The lead hole for the threaded portion shall be of a diameter equal to 60% of the shank diameter for screws up to 1/2" diameter, and 75% of the shank diameter for larger lag screws. The lead hole shall be at least the length of the threaded portion.
- Lag screws shall be turned into pre-drilled holes and not be driven.
- All bolts and lag screws shall be tightened and retightened before closing in, or at completion of job.
- All bolts and lag screws shall be provided with metal washers under heads and nuts which bear on wood.

MINIMUM WASHER FOR BOLTS & LAG SCREWS		
Size	Malleable Iron Washer	Steel Plate Washer
1/2" Ø	2 1/2" Ø x 5/16"	2" x 2" x 1/4"
5/8" Ø	2 3/4" Ø x 5/16"	2" x 2" x 1/4"
3/4" Ø	3" Ø x 7/16"	2" x 2" x 1/4"
7/8" Ø	3 5/8" Ø x 3/8"	3" x 3" x 1/4"
1" Ø	4" Ø x 1/2"	3" x 3" x 1/4"

Place under Bolt Heads & Nuts bearing on Wood

- Fastener alternatives for non-bearing and non-shear walls: Two minimum per member and at 9" from ends.
 - 1/8" Ø Powder driven anchor with 1" penetration @ 2'-0" OC.
 - 1/4" Ø expansion anchorage device embedded 1 1/2" minimum at 2'-0" OC.
 - 1/2" Ø anchor bolt with 2 1/2" embedment @ 4'-0" OC.
- Equivalent mechanical fasteners may be submitted to the Engineer for approval.
 - Cooler nail, parker nail or wallboard nail with a flat or concave head and diamond point at all edges and intermediate supports (field nailing)

NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

FILE NO. XS-25-5	DESIGN BY <i>Sean Samal</i>	CHECKED BY <i>Joe Gandy</i>	APPROVED BY <i>R.E. Travis</i>	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 57M5506	POST MILE 21.8	KEARNY MESA MATERIALS LAB SEISMIC UPGRADE	SHEET ST-1A
DRAWING DATE 1-04	DETAILS BY <i>Peter F. von Savoy, II</i>	CHECKED BY <i>Joe Gandy</i>	DESIGN SUPERVISOR	DEPARTMENT OF TRANSPORTATION				WOOD FRAMING STANDARD - NOTES	
DOES SD Imperial Rev. 9/02				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3599 11000003451	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 1-16-04 11-14-05		SHEET OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		30	78

REGISTERED PROFESSIONAL ENGINEER
 Dai Lu
 No. 67416
 Exp. 12-31-14
 CIVIL
 STATE OF CALIFORNIA

05-06-13
 PLANS APPROVAL DATE

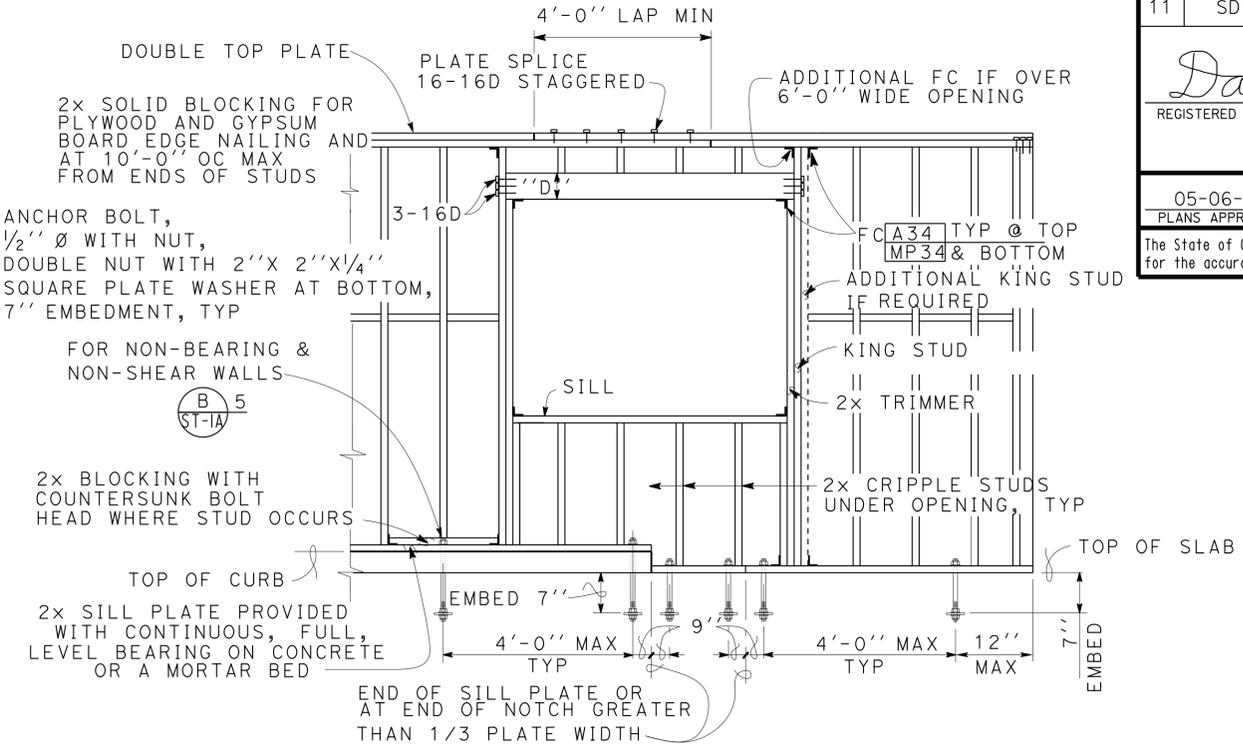
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

MINIMUM NAILING SCHEDULE

- A**
- All structural nailing shall be common wire. Alternate fasteners may be substituted as approved by the Engineer.
 - For wood to wood joints, the spacing of nails shall not be less than the required nail penetration. Edge or end distances shall not be less than 1/2 the required nail penetration. Where pre-drilling is required to avoid splitting of the wood, the hole diameter shall not exceed three-fourths of the nail diameter.
 - Nailing not noted below or on the project plans shall be a minimum of 2 nails at each contact, 8d for 1"x members and 16d for 2"x members.
 - Joists or Rafters:
 - Bearing (sill, girder, top plate) Toe Nail 3-8d
 - Laps (parallel members over walls or beams) Face Nail 4-16d
For each additional 3" member depth beyond 6" member add
 - Rim joist to floor joist, End Nail 2-16d
For each additional 4" member depth beyond 8" member add
 - Rim joist to top plate, Toe Nail 1-16d
 - Double joists under bearing walls, staggered Face Nail 8d @ 6" OC
 - Double joists under bearing walls, staggered Face Nail 16d @ 1'-0" OC
 - Studs:
 - Double studs, Face Nail 16d @ 2'-0" OC
 - Top plate to stud, End Nail 2-16d
 - Stud to sole plate, Toe Nail 3-16d or 4-8d
 - Sole plate to stud, End Nail 2-16d
 - Stud to continuous header, Toe Nail 3-16d or 4-8d
 - Built-up corner studs, Face Nail 16d @ 2'-0" OC
 - Plates:
 - Top plate doubled, Face Nail 16d @ 1'-4" OC
 - Top plate intersection, Face Nail 2-16d
 - Sole plate to rim joist or blocking, Face Nail 16d @ 1'-4" OC
 - Sole plate to floor framing, Face Nail 16d @ 1'-4" OC
 - Blocking:
 - To studs, joists or rafters, Toe Nail or End Nail 3-16d or 4-8d
For each additional 4" member depth beyond 8" member add, Toe Nail or End Nail 2-8d
End Nail 1-16d
 - To plates, Toe Nail 16d @ 1'-0" OC
 - 2" Subfloor to each joist or girder one blind and one Face Nail. 2-16d
 - Structural Plywood Nailing:
 - Spacing at subflooring, decking, roof and wall structural plywood sheathing to framing:

LOCATION	3/8" Plwd	1/2" - 1" Plwd
At supported edges (edge nailing) & over bearing (beams, girders, walls, etc.)	8d @ 6" OC	10d @ 6" OC
At intermediate supports (field nailing)	8d @ 6" OC	10d @ 1'-0" OC
Where bearing is 4'-0" or greater (field nailing)	—	10d @ 6" OC

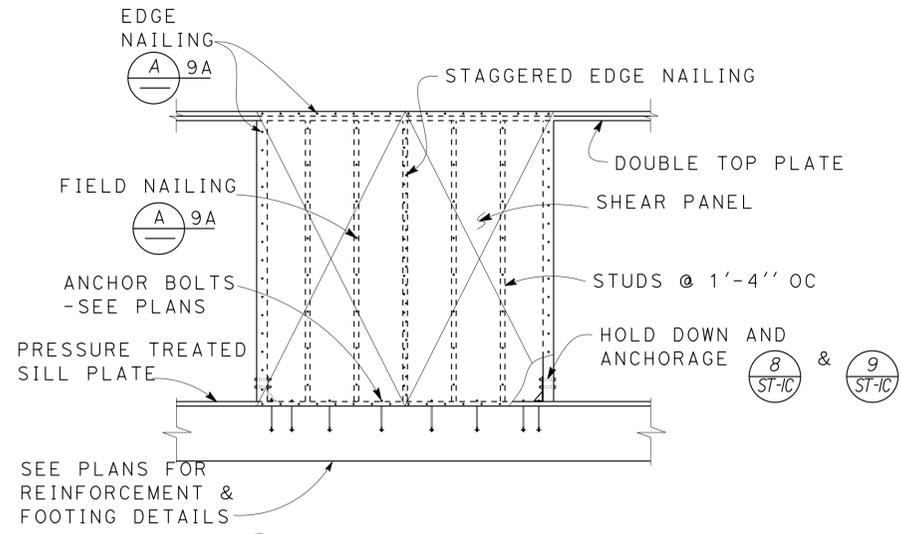
- Structural plywood edge nailing shall be staggered at supports, Detail 2, Sheet ST-1C; at double plates, Detail 3, Sheet ST-1C; and at double studs located at wall intersections and corners, Details 9A and 9B, Sheet ST-1C.
 - Decking and Underlayment: Use deformed shank nail (see Sheet ST-1C for nail size and spacing)
 - Panel siding to framing: Use zinc coated nail (see Sheet ST-1C for nail size and spacing)
- Finish Plywood Nailing (non-structural):
 - Finish plywood to framing where the thickness is 1/2" or less:
 - Finish nail at supported edges (edge nailing) 6d @ 6" OC
 - Finish nail at intermediate supports (field nailing) 6d @ 1'-0" OC
 - Gypsum Sheathing (Structural):
 - Wall structural gypsum board sheathing to framing where the thickness 5/8" or less: 6d @ 4" OC



MAX WIDTH OF OPENING	MINIMUM HEADER DEPTH "D"			
	BEARING WALLS	NON-BEARING WALLS	SILL	KING
4'-0"	6"	4"	2X	2X
8'-0"	8"	6"	2-2X	2-2X
10'-0"	10"	8"	2-2X	2-2X
12'-0"	12"	10"	3-2X	2-2X

HEADER, MATCH STUD WIDTH

1 TYPICAL WALL AND OPENING FRAMING
No Scale



2 SHEAR WALL ELEVATION
No Scale

NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

FILE NO. XS-25-5.1	DESIGN BY <i>Sean Sennel</i>	CHECKED <i>Joe Sennel</i>	APPROVED <i>RE Travis</i>	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 57M5506	POST MILE 21.8	KEARNY MESA MATERIALS LAB SEISMIC UPGRADE	SHEET ST-1B
DRAWING DATE 1-04	DETAILS BY <i>Peter F. von Savoy, III</i>	CHECKED <i>Joe Sennel</i>	DESIGN SUPERVISOR	DEPARTMENT OF TRANSPORTATION	UNIT PROJECT NUMBER & PHASE 3599 11000003451	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	WOOD FRAMING STANDARD - DETAILS	SHEET OF
DOES SD Imperial Rev. 9/02				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3599 11000003451	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	WOOD FRAMING STANDARD - DETAILS	SHEET OF

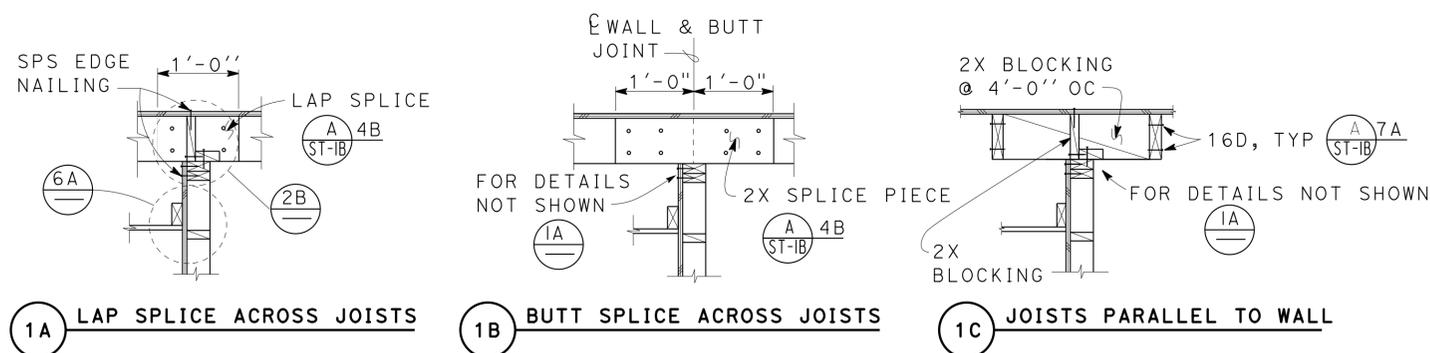
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		31	78

Dai Lu
REGISTERED CIVIL ENGINEER
DATE 12-03-12

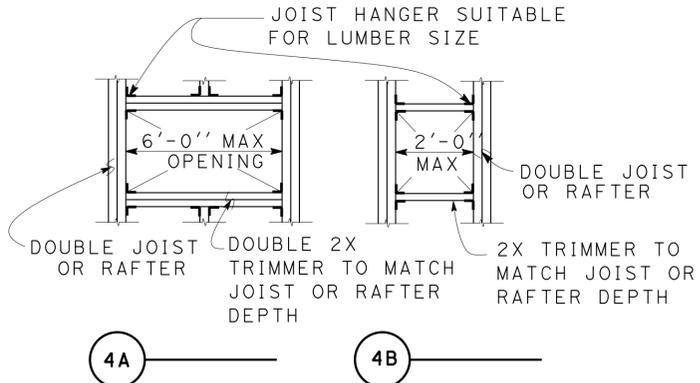
05-06-13
PLANS APPROVAL DATE

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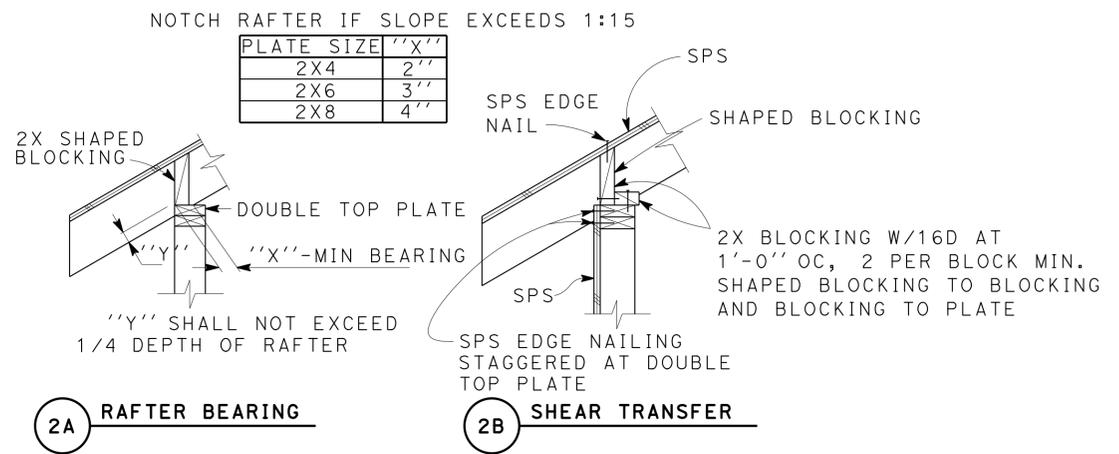
REGISTERED PROFESSIONAL ENGINEER
Dai Lu
No. 67416
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA



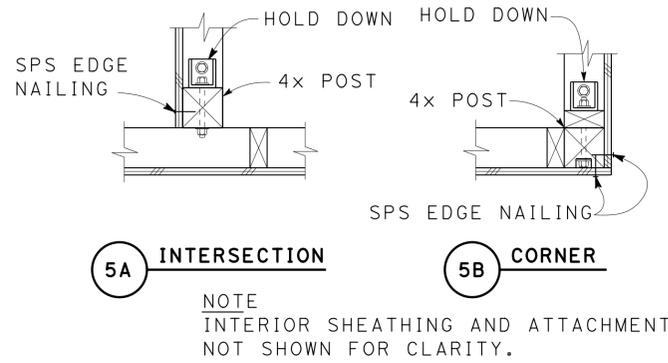
1 JOIST LAYOUT AT TOP OF BEARING AND SHEAR WALL
No Scale



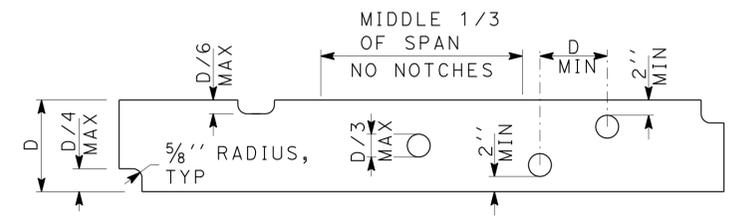
4 FRAMING AT OPENINGS
No Scale



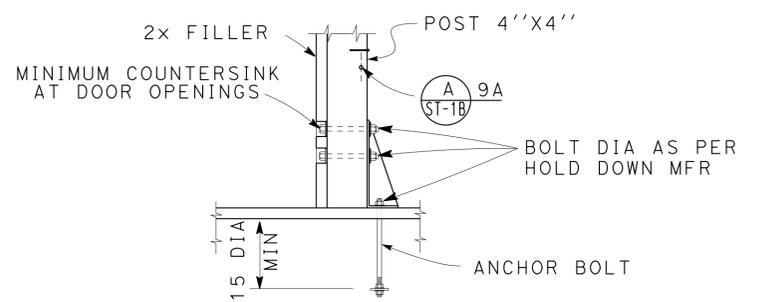
2 EXTERIOR WALL TOP PLATE DETAIL
No Scale



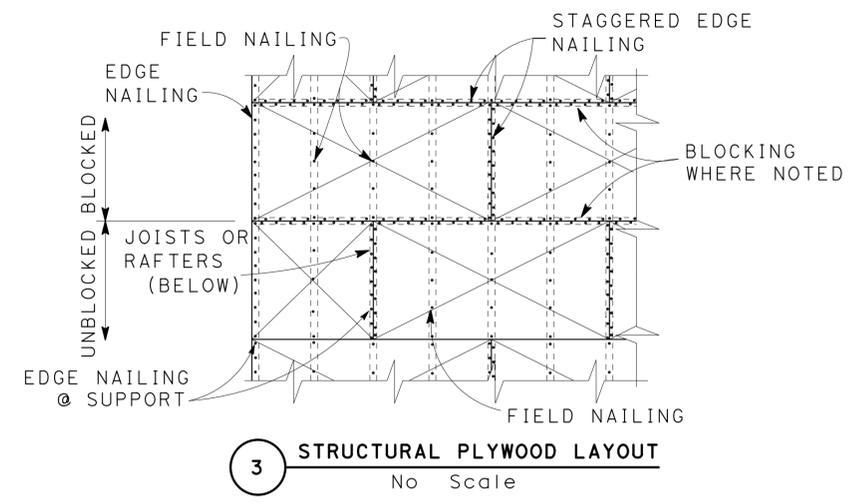
5 INTERIOR AND CORNER WALL FRAMING DETAILS
No Scale



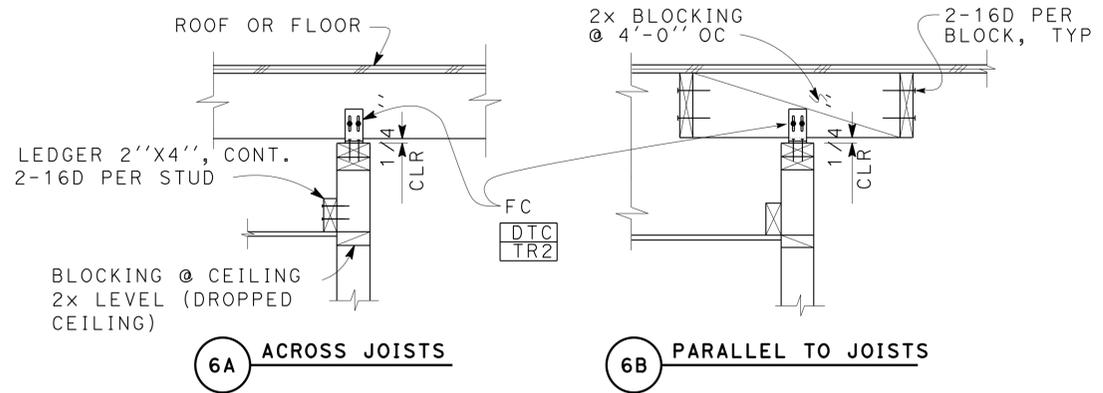
7 NOTCH LIMITS FOR JOISTS AND HEADERS
No Scale



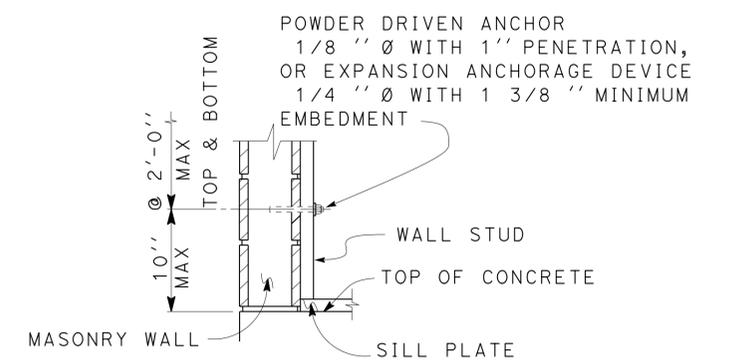
8 INTERIOR HOLD DOWN
No Scale



3 STRUCTURAL PLYWOOD LAYOUT
No Scale



6 NON-BEARING WALL TOP PLATE CONNECTION
No Scale



9 STUD ANCHORAGE TO MASONRY
No Scale

NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

FILE NO. XS-25-5.I	DESIGN BY <i>Sean Sennel</i>	CHECKED BY <i>Joe Standa</i>	APPROVED BY <i>R.E. Travis</i>
DRAWING DATE 1-04	DETAILS BY <i>Peter F. von Savoy</i>	CHECKED BY <i>Joe Standa</i>	DESIGN SUPERVISOR
SUBMITTED BY <i>Sean Sennel</i>		DESIGN ENGINEER	

DOES SD Imperial Rev. 9/02

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 57M5506
POST MILE 21.8

DISREGARD PRINTS BEARING EARLIER REVISION DATES

DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

PROJECT NUMBER & PHASE 3599 11000003451

KEARNY MESA MATERIALS LAB
SEISMIC UPGRADE
WOOD FRAMING STANDARD - DETAILS

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET ST-1C

17-JUN-2013 09:37

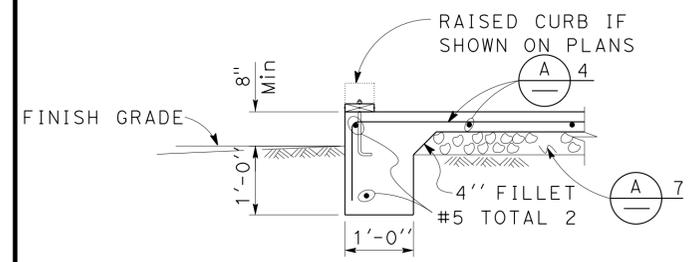
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		32	78

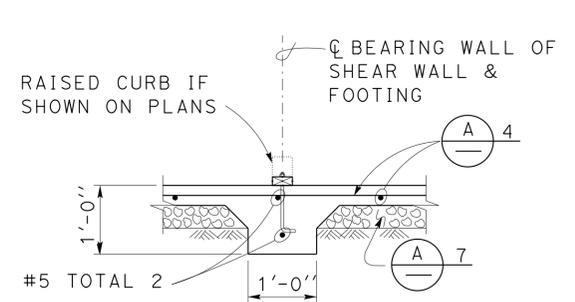
<i>Dai Lu</i>		12-03-12
REGISTERED CIVIL ENGINEER	DATE	

05-06-13
PLANS APPROVAL DATE

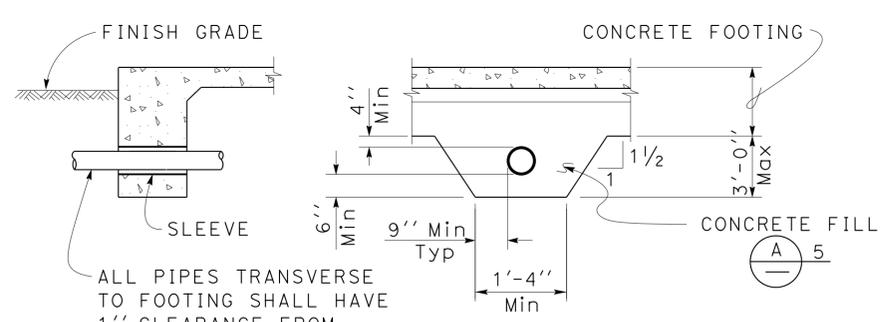
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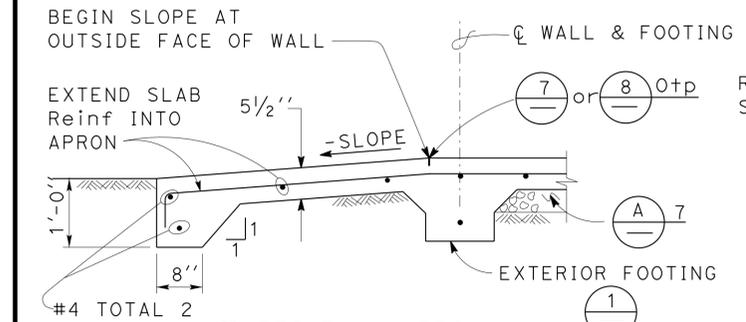
1 EXTERIOR FOOTING
NO SCALE



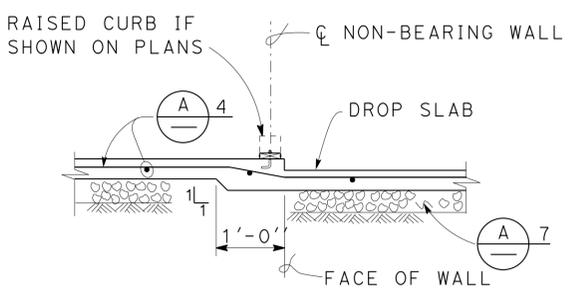
5 INTERIOR FOOTING
NO SCALE



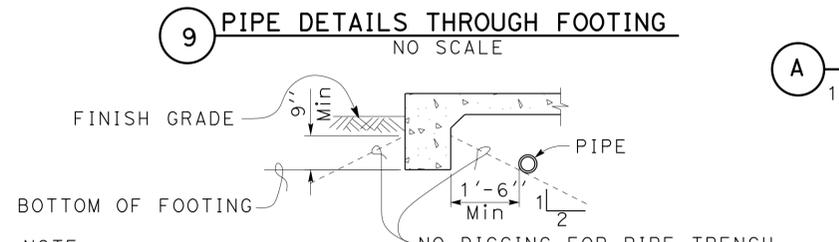
9 PIPE DETAILS THROUGH FOOTING
NO SCALE



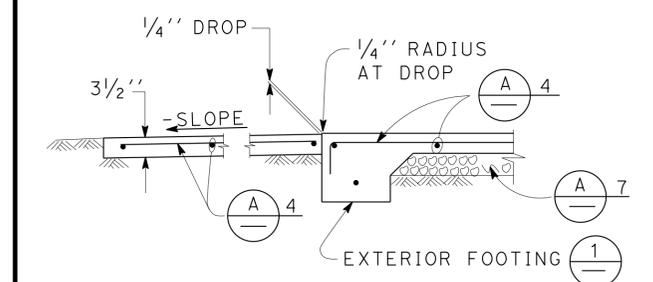
2 DRIVEWAY APRON
NO SCALE



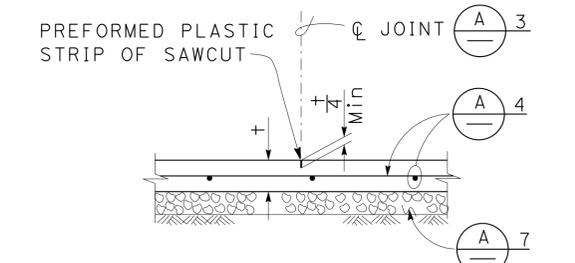
6 DROP SLAB AT NON-BEARING WALL
NO SCALE



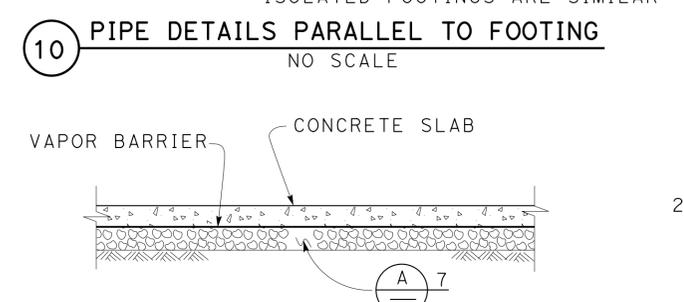
10 PIPE DETAILS PARALLEL TO FOOTING
NO SCALE



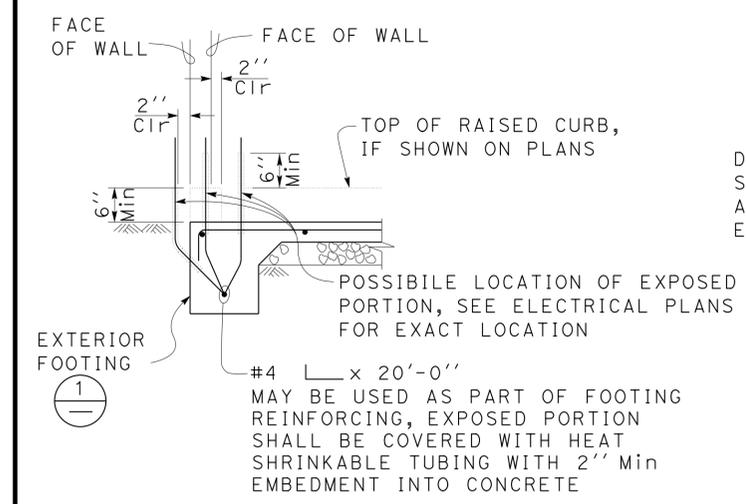
3 WALKWAY APRON
NO SCALE



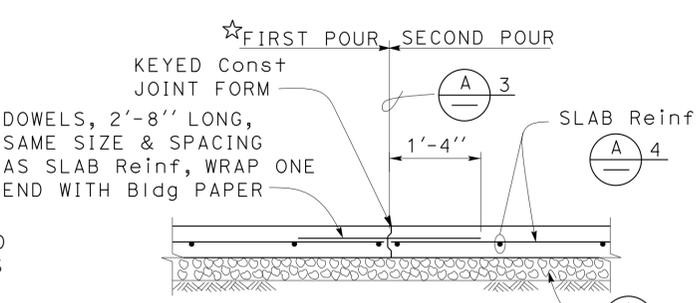
7 CONTROL JOINT
NO SCALE



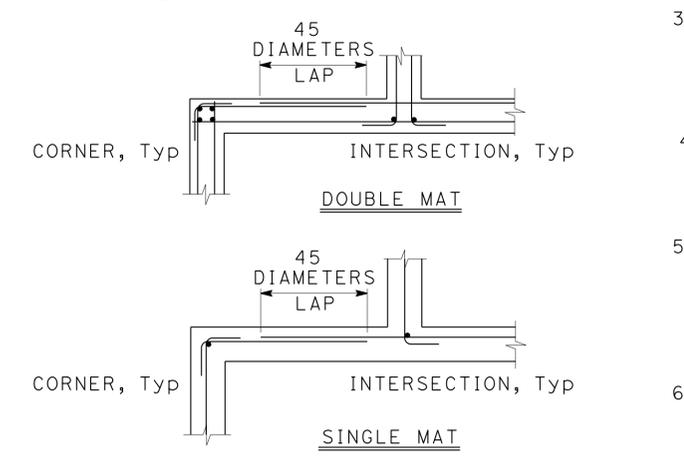
11 MOISTURE BARRIER
NO SCALE



4 GROUND BAR DETAIL
NO SCALE



8 CONTRACTION JOINT
NO SCALE



12 CORNER/INTERSECTION REINF SPLICE, TYPICAL
NO SCALE

- CONCRETE NOTES**
- The following minimum concrete cover shall be provided for reinforcement.

Reinforcement	Minimum Cover
Concrete cast against and permanently exposed to earth	3"
Concrete exposed to earth or weather but cast in forms:	
#6 thru #18 bars	2"
#5 bar and smaller, W31 or D31 Wire, and smaller	1 1/2"
Concrete not exposed to weather or in contact with ground: Slabs, Walls and Joists:	
#14 and #18 Bar	1 1/2"
#11 Bar and smaller	3/4"
Beams and Columns:	
Primary Reinforcement, Ties, Stirrups and Spirals	1 1/2"
 - Splices in continuous reinforcement as in Walls, Wall Footings, etc. #8 or smaller shall have a lap of 45 diameters and the splices in adjacent bars shall not be less than 5'-0" apart.

Continuous Bars in spandrels, Wall Beams, etc. shall lap Top Bars at center of span and Bottom Bars at supports.
 - Contraction Joints and Control Joints shall divide slab into areas not exceeding 25 square yards without reentrant corners and with length to width ratios not exceeding 1.5 to 1. Joint spacing shall not exceed 15'-0".
 - Slab Thickness (t) Reinforcement

3 1/2"	#3 @ 18	Each way, place in center of Slab
5 1/2"	#4 @ 18	Each way, place in center of Slab
 - Concrete fill is to be placed before Footing is poured. Make the same width as the Footing and the full width of the Pipe trench. Concrete fill not required for pipes less than 2" diameter for pipes more than 3'-0" below bottom of footing.
 - See Mechanical and Architectural Plans for size and locations of pipe, vents, ducts and other similar openings. See Electrical Plans for conduits and outlet boxes in floors, walls, etc.
 - Place 4" of free draining granular material under slabs.

NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

FILE NO. XS-25-1	DESIGN BY <i>Sean Sandoz</i>	CHECKED <i>Lee G. ...</i>	APPROVED <i>R.C. ...</i>
DRAWING DATE 1-04	DETAILS BY <i>Peter F. ...</i>	CHECKED <i>...</i>	DESIGN SUPERVISOR

SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
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STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES
DEPARTMENT OF TRANSPORTATION	ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO. 57M5506	POST MILE 21.8	KEYARNY MESA MATERIALS LAB SEISMIC UPGRADE	SHEET ST-2
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PROJECT DESIGN CRITERIA

The building work on this project has been designed to conform to the 2010 California Building Code.

DETAIL NOTES

LOADS

SEISMIC: Occupancy Category = II
 Importance Factor I = 1.0
 Site Soil Class = D
 $S_S = 1.500$ $S_{DS} = 1.000$
 $S_I = 0.584$ $S_{DI} = 0.584$

Seismic Design Category = D

Seismic Force-Resisting System:

Bearing Wall System

North - South

Intermediate precast shear walls:

$R = 4.00$ $C_S = 0.25$

Bearing Wall System

East - West

Intermediate precast shear walls:

$R = 4.00$ $C_S = 0.25$

WIND: Basic Wind Speed = 85 mph

Importance Factor I = 1.0

Exposure B

LIVE LOAD:Roof = 20 psf

MATERIALS

REINFORCED CONCRETE: (Ultimate Strength Design) :

$f'c = 3,000$ psi

$f_y = 60,000$ psi

STRUCTURAL STEEL: (Allowable Strength Design) :

Channels, Angles & Misc. Shapes $F_y = 36$ ksi

Plates $F_y = 36$ ksi

Miscellaneous Steel:

Resin Capsule Anchor:

Simpson Set Epoxy-Tie Anchoring Adhesive, or equal.

1. For Timber and Sawn Lumber see:
 "Wood Framing Standard - Notes"
 "Wood Framing Standard - Details"
2. For Concrete see:
 "Concrete Standard"
3. All bolts shall be hex head machine bolts, with hex head nuts; unless otherwise noted.
4. All lock washers shall be helical spring lock washers.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5506		33	78

Dai Lu 12-03-2012
 REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
 No. 67416
 Exp. 12-31-14
 CIVIL
 STATE OF CALIFORNIA

05-06-13
 PLANS APPROVAL DATE

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DESIGN	BY Dai Lu	CHECKED Joseph Camilleri
DETAILS	BY George Rowe	CHECKED Joseph Camilleri
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No.	57M5506
POST MILE	21.8

KEARNY MESA MATERIALS LAB

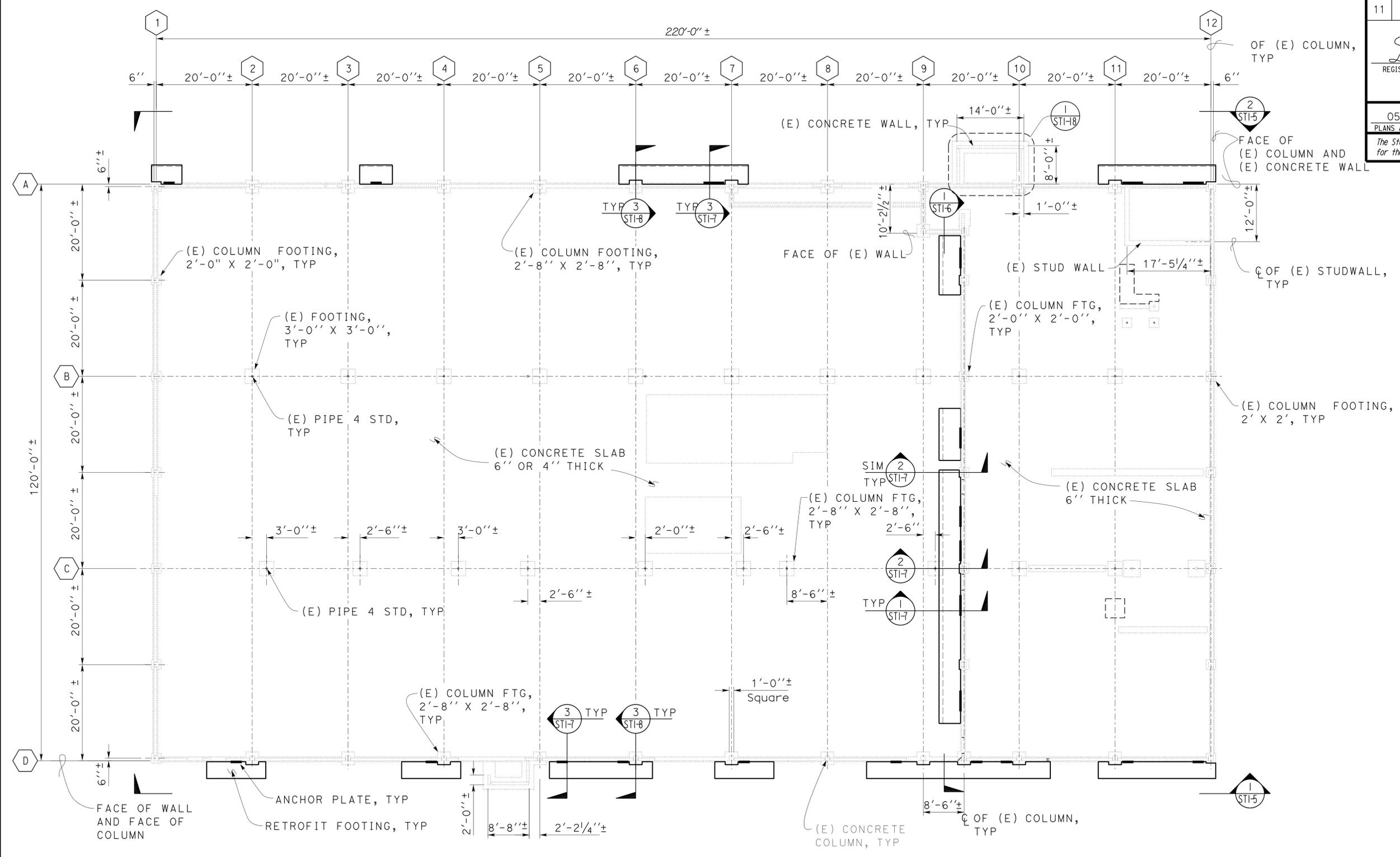
DESIGN CRITERIA AND DETAIL NOTES

SHEET **ST1-0**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5506		34	78

REGISTERED CIVIL ENGINEER
 No. 67416
 Exp. 12-31-14
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 STATE OF CALIFORNIA

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Note
For Partition Wall locations,
see Architectural Plans

1 FOUNDATION PLAN
 Scale $\frac{3}{32}'' = 1' - 0''$
 Top of Existing Slab = Datum 0'-0''

Note
The Contractor shall verify all
controlling field dimensions
before ordering or fabricating
any material.

DESIGN BY Dai Lu	CHECKED Joseph Camilleri	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.	KEYARNY MESA MATERIALS LAB	SHEET ST1-1
				57M5506		
DETAILS BY George Rowe	CHECKED Joseph Camilleri			POST MILE	FOUNDATION PLAN	
QUANTITIES BY	CHECKED			21.8		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 11000003451		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)
0 1 2 3				11-18-09 12-09-11 02-23-12 06-08-12 01-09-13		SHEET OF

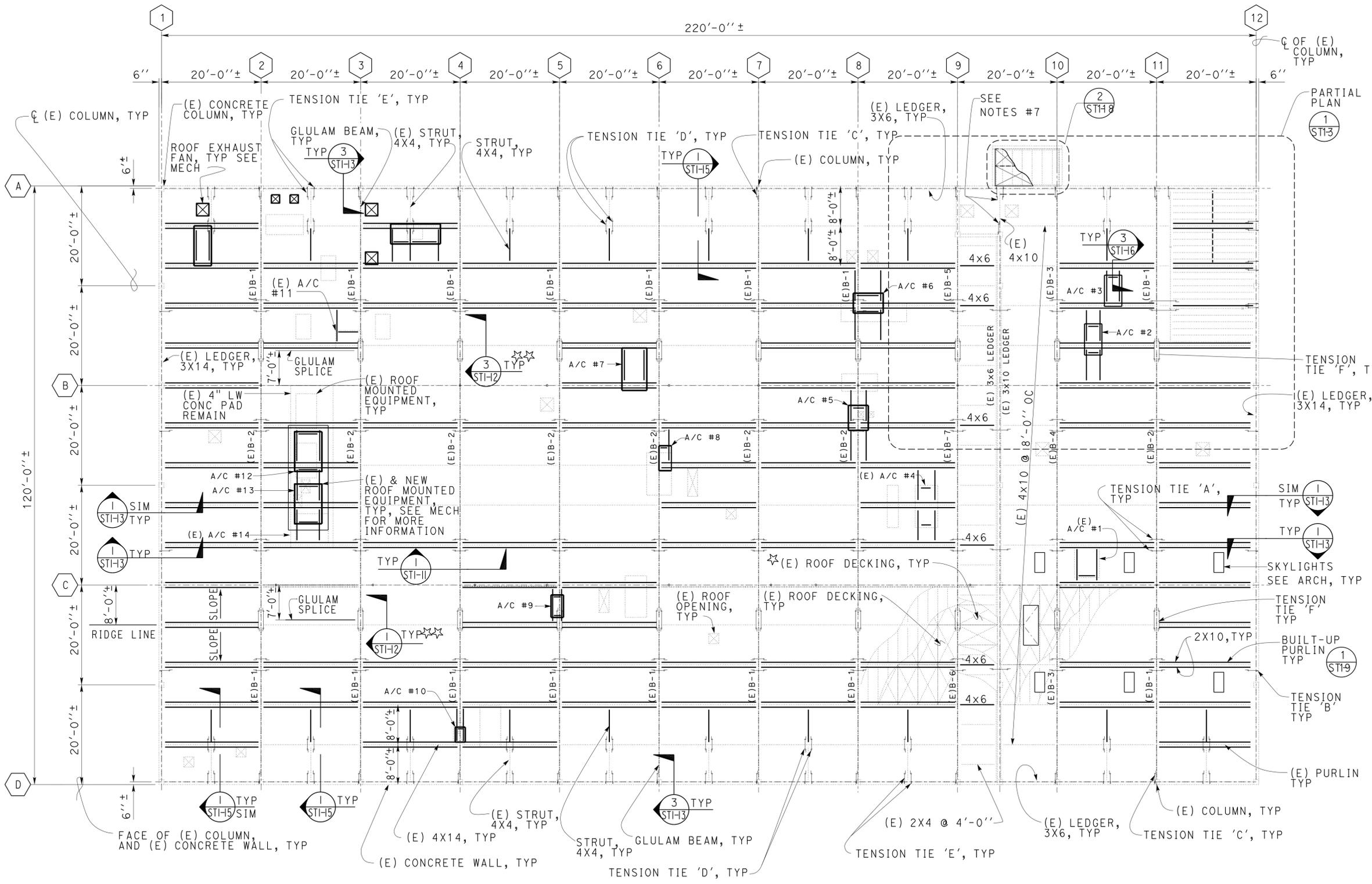
TAEWW Imperial - CCSC Rev. 01/13

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5506		35	78

Dai Lu
 REGISTERED CIVIL ENGINEER
 No. 67416
 Exp. 12-31-14
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 STATE OF CALIFORNIA

12-03-2012 DATE
 05-06-13 PLANS APPROVAL DATE
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Splice and Tension Tie Schedule

Tension Tie 'A'	Purlin to Purlin Holdown Tie
Tension Tie 'B'	Purlin to Wall Holdown Tie
Tension Tie 'C'	Column to Glulam Holdown Tie
Tension Tie 'D'	Strut to Strut Holdown Tie
Tension Tie 'E'	Strut to Wall Holdown Tie
Tension Tie 'F'	Glulam Beam Hinge Strap Tie or Holdown Tie

Existing Glulam Beam Schedule

Beam ID	Size
B-1	5/8" x 21"
B-2	5/8" x 25 1/2"
B-3	5/8" x 21"
B-4	5/8" x 24"
B-5	5/8" x 13 1/2"
B-6	5/8" x 19 1/2"
B-7	5/8" x 21"

LEGEND

Embedded Tie	
Tension Tie	

- ### NOTES
- (E) frame connections not shown. See details for more information.
 - (E) roof decking - plywood with 2x4 supports @ 2'-0" oc.
 - (E) food decking - rotated 90 degrees plywood with 2x4 supports @ 2'-0" oc.
 - Wherever (E) wood members show significant cracks, they shall be repaired by epoxy resin injection or fiber reinforced polymer.
 - See Arch and Mech for roof opening sizes and locations. See **7** for framing at roof openings.
 - See Mech for removing and replacing (E) roof equipment. See **3** for typical framing at each new equipment.
 - Filed verify (E) connections. If no room for 2 holdowns, place 1 holdown HDU8-SDS2.5 or EQUAL similar to detail **3**.

Note
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

☆☆ Glulam Beam Connection Note
 See ST1-12 for notes regarding Glulam Connection types and options.

1 ROOF FRAMING PLAN
 Scale 3/32" = 1' - 0"

DESIGN BY Dai Lu	CHECKED Joseph Camilleri	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 57M5506	KEARNY MESA MATERIALS LAB ROOF FRAMING PLAN	SHEET ST1-2	
DETAILS BY George Rowe	CHECKED Joseph Camilleri			POST MILE 21.8		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY	CHECKED			UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 11000003451		DISREGARD PRINTS BEARING EARLIER REVISION DATES	11-19-09 12-05-11 02-23-12 06-08-12 01-09-13

TAEWW Imperial - CCSC Rev. 01/13 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 11000003451 DISREGARD PRINTS BEARING EARLIER REVISION DATES 11-19-09 12-05-11 02-23-12 06-08-12 01-09-13 SHEET OF

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5506		36	78

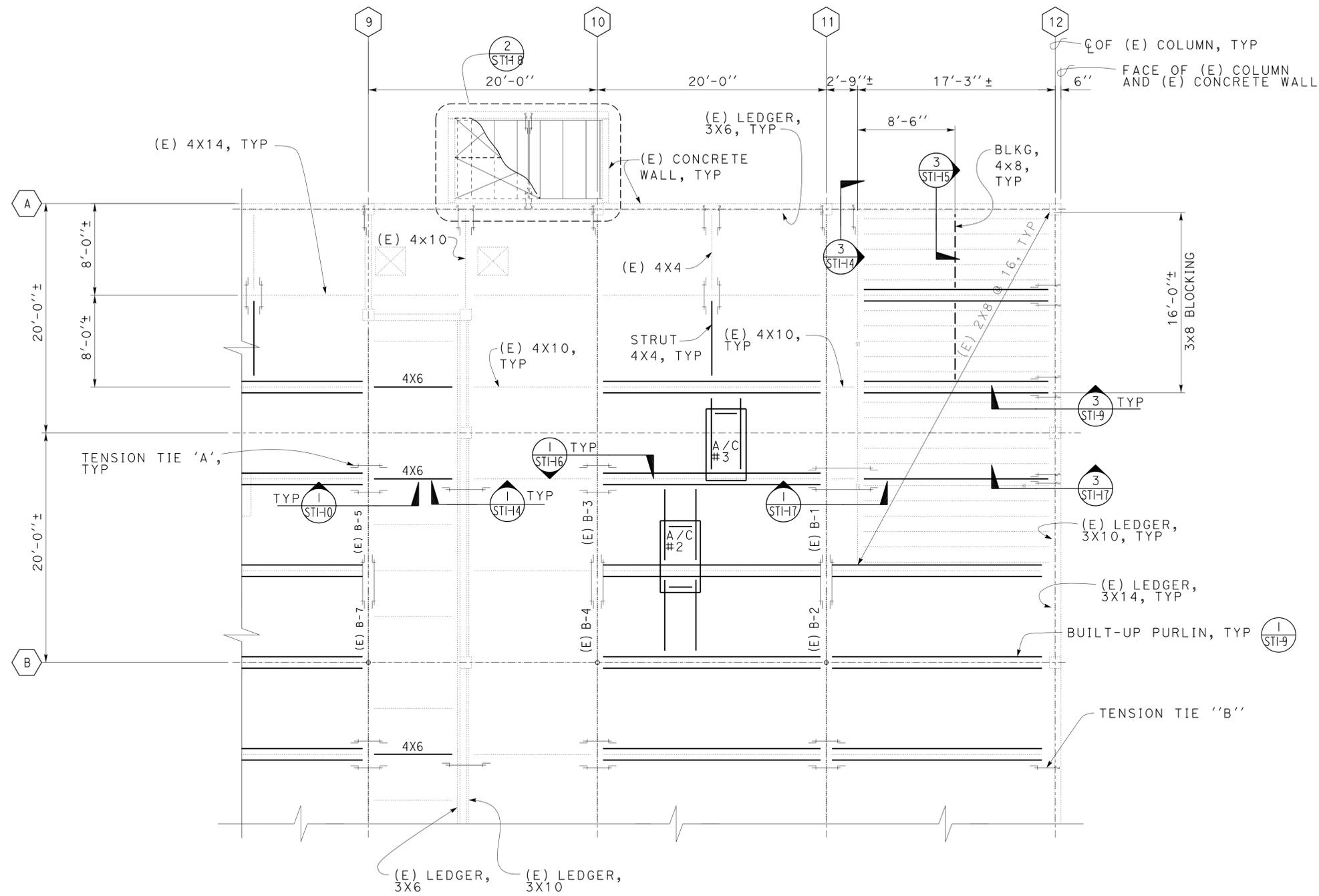
Dai Lu
REGISTERED CIVIL ENGINEER

12-03-2012
DATE

REGISTERED PROFESSIONAL ENGINEER
 No. 67416
 Exp. 12-31-14
 CIVIL
 STATE OF CALIFORNIA

05-06-13
PLANS APPROVAL DATE

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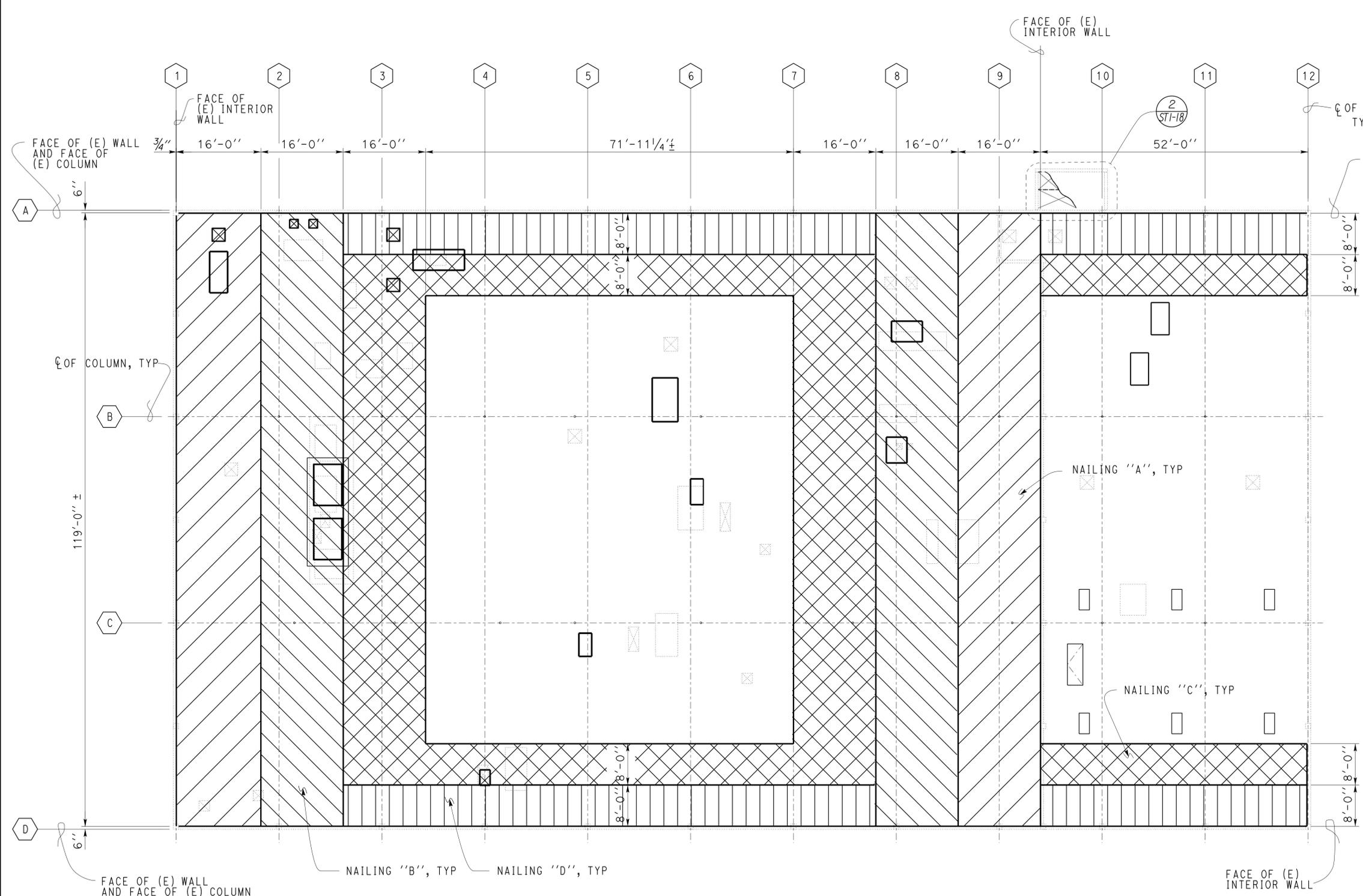


1 PARTIAL ROOF FRAMING PLAN
 Scale $\frac{3}{16}'' = 1' - 0''$
 Note: See **1** for information not shown.

Note
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN BY Dai Lu	CHECKED Joseph Camilleri	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 57M5506	KEARNY MESA MATERIALS LAB	SHEET ST1-3
DETAILS BY George Rowe	CHECKED Joseph Camilleri			POST MILE 21.8		PARTIAL ROOF FRAMING PLAN
QUANTITIES BY	CHECKED			DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 11-18-09 12-08-11 02-23-12 06-08-12 01-09-13
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 11000003451	SHEET OF		

TAEWW Imperial - CCSC Rev. 01/13 U:\proj\oaddd\11-287701_1100000345\New Folder\36_st1_03.dgn



A SEISMIC ROTROFIT NAILING SCHEDULE

NAILING "A"

LOCATION	(E) NAILING	NAILING
Boundary Nailing	10d @ 2 1/2" Staggered	No Change
All remaining Panel Edges	10d @ 4"	10d @ 2" Staggered
Intermediate Support	10d @ 12"	No Change

NAILING "B"

LOCATION	(E) NAILING	NAILING
Boundary Nailing	10d @ 4"	10d @ 2" Staggered
All remaining Panel Edges	10d @ 6"	10d @ 3"
Intermediate Support	10d @ 12"	No Change

NAILING "C"

LOCATION	(E) NAILING	NAILING
Boundary Nailing	10d @ 6"	10d @ 3"
All remaining Panel Edges	10d @ 6"	10d @ 3"
Intermediate Support	10d @ 12"	No Change

NAILING "D"

LOCATION	(E) NAILING	NAILING
Boundary Nailing	10d @ 4"	10d @ 4"
All remaining Panel Edges	10d @ 6"	10d @ 3"
Intermediate Support	10d @ 12"	No Change

Nailing Plan Schedule Legend

Nailing "A"	Nailing "C"
Nailing "B"	Nailing "D"

- Notes:**
- Existing Nailing size and spacings are noted in the Nailing Schedule; for informational purposes.
 - Existing Roof SPS is 1/2" thick.
 - Roof SPS that is replaced, shall match the Existing Roof SPS thickness and span rating.
 - Where Existing Roof SPS is not damaged and is to be remained, add nails as required per the Nailing schedule.
 - Where nails are spaced 2" OC or 2 1/2" OC, support framing at adjoining edges shall be 3" nominal or wider. Single (E) 2x4 joist at adjoining panel edges shall be tripled by adding a 2x4 on each side of the (E) 2x4 joist.
 - Field verify that nailing "A", "B", "C" and "D" must be blocked diaphragm, which all panel edges must be supported by minimum of 2x4 roof joist.

1 ROOF DIAPHRAGM NAILING PLAN
Scale 3/32" = 1' - 0"

Note: See (1) ST1-2 for information not shown.

Note
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

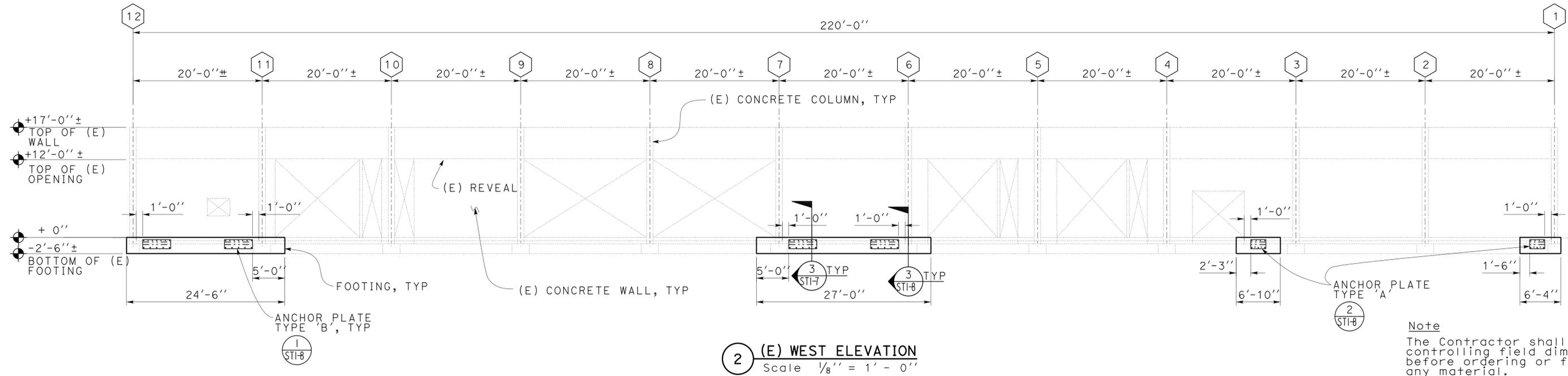
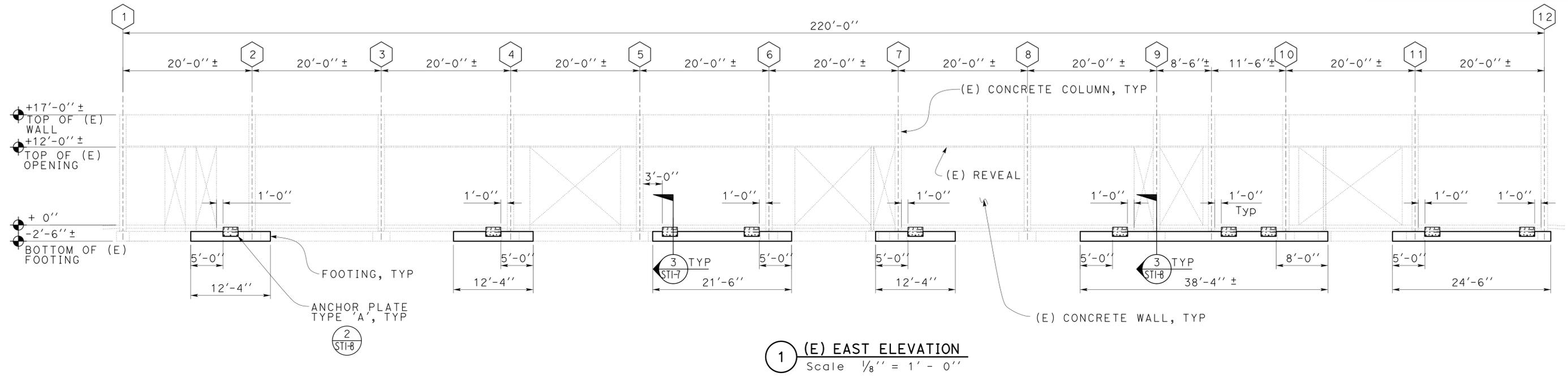
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5506		38	78

Dai Lu
REGISTERED CIVIL ENGINEER
DATE 12-03-2012

05-06-13
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
Dai Lu
No. 67416
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA



Note
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN	BY Dai Lu	CHECKED Joseph Camilleri
DETAILS	BY George Rowe	CHECKED Joseph Camilleri
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No. 57M5506
POST MILE 21.8

KEARNY MESA MATERIALS LAB
TILT-UP WALL ELEVATIONS

SHEET ST1-5 OF

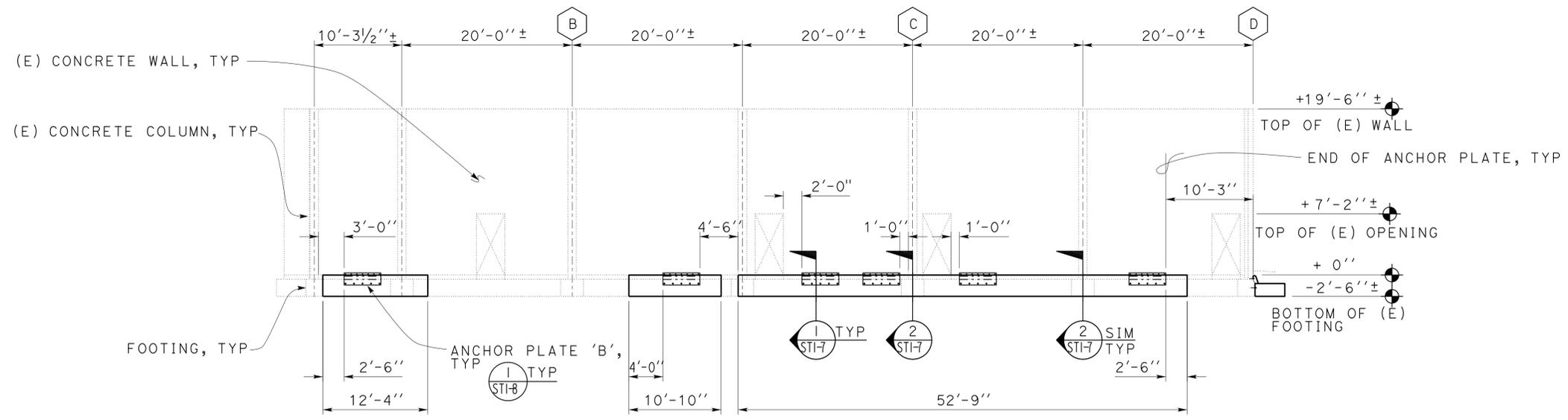
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5506		39	78

Dai Lu
REGISTERED CIVIL ENGINEER
12-03-2012
DATE

REGISTERED PROFESSIONAL ENGINEER
Dai Lu
No. 67416
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA

05-06-13
PLANS APPROVAL DATE

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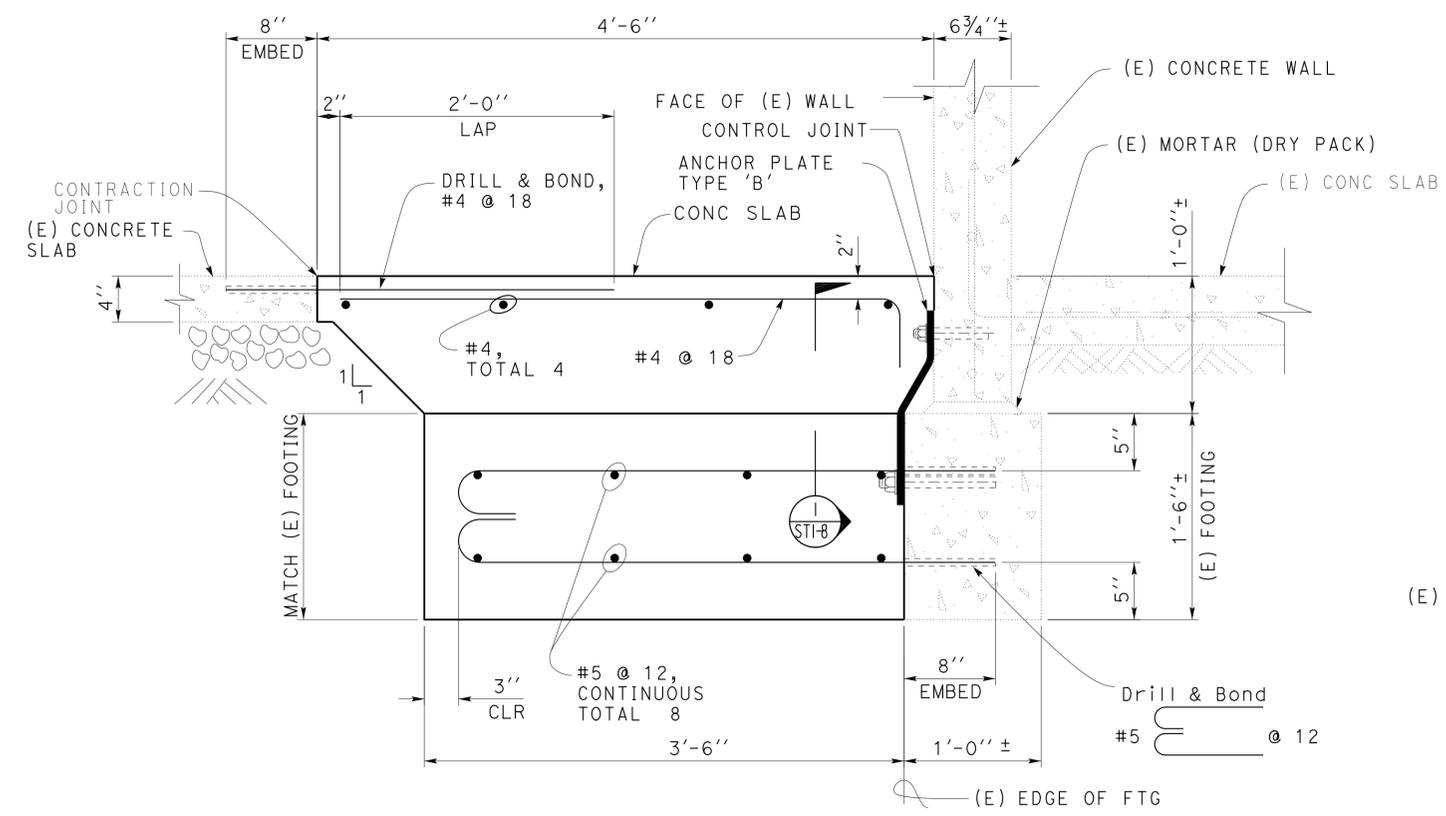


1 BUILDING SECTION
Scale 1/8" = 1' - 0"

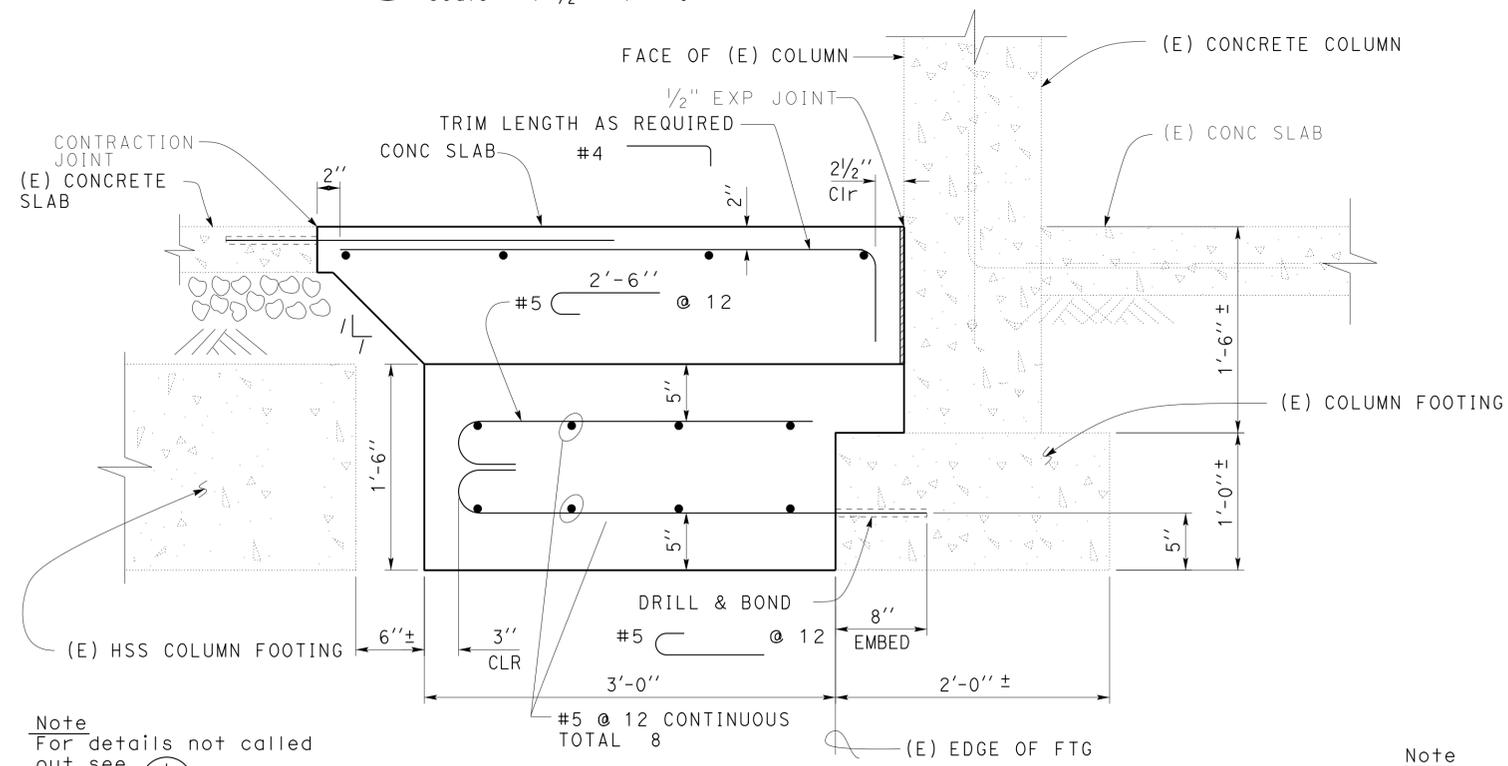
Note
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN BY Dai Lu CHECKED Joseph Camilleri	DETAILS BY George Rowe CHECKED Joseph Camilleri	QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 57M5506	KEARNY MESA MATERIALS LAB TILT-UP WALL ELEVATIONS	SHEET OF ST1-6
					POST MILE 21.8		
					UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 11000003451		
TAEMWW Imperial - CCSC Rev. 01/13			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			U:\proj\qadd\11-287701_1100000345\New Folder\39_st1_06.dgn	

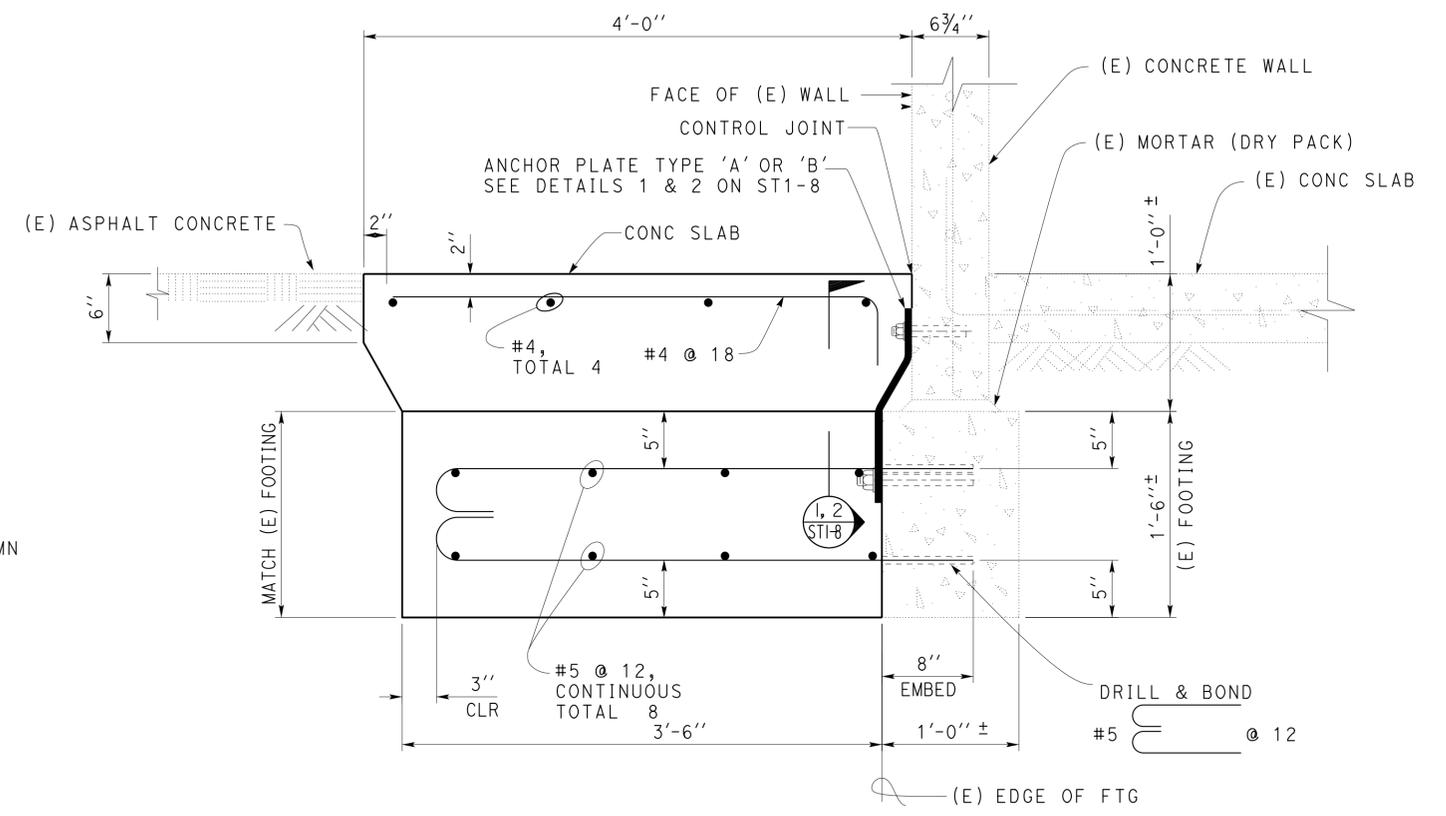
17-JUN-2013 09:38



1 RETROFIT FOOTING TO (E) INTERIOR WALL FOOTING
 Scale 1 1/2" = 1' - 0"



2 RETROFIT FOOTING TO (E) INTERIOR WALL COLUMN FOOTING
 Scale 1 1/2" = 1' - 0"



3 RETROFIT FOOTING TO (E) EXTERIOR WALL FOOTING
 Scale 1 1/2" = 1' - 0"

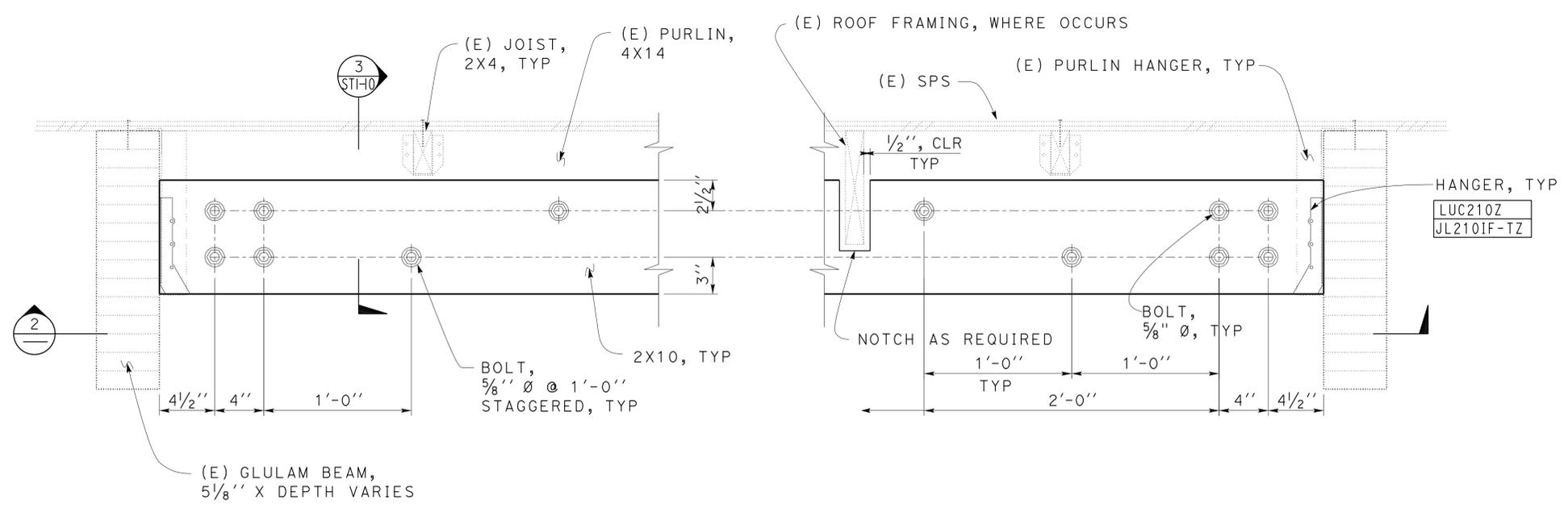
Note
 For details not called out see

Note
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

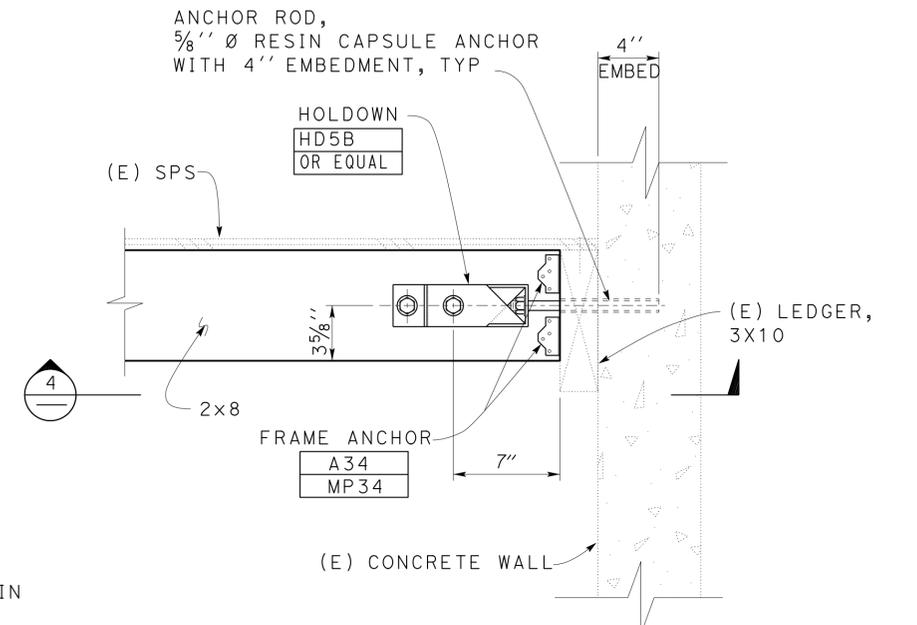
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11	SD	5506		42	78

05-06-13
 PLANS APPROVAL DATE

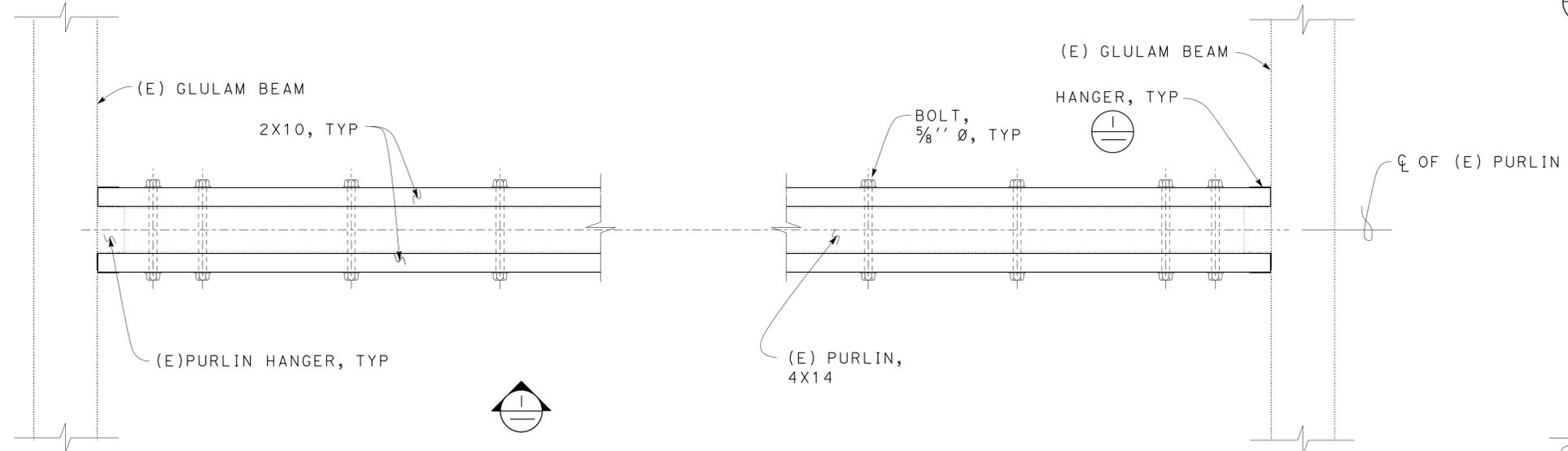
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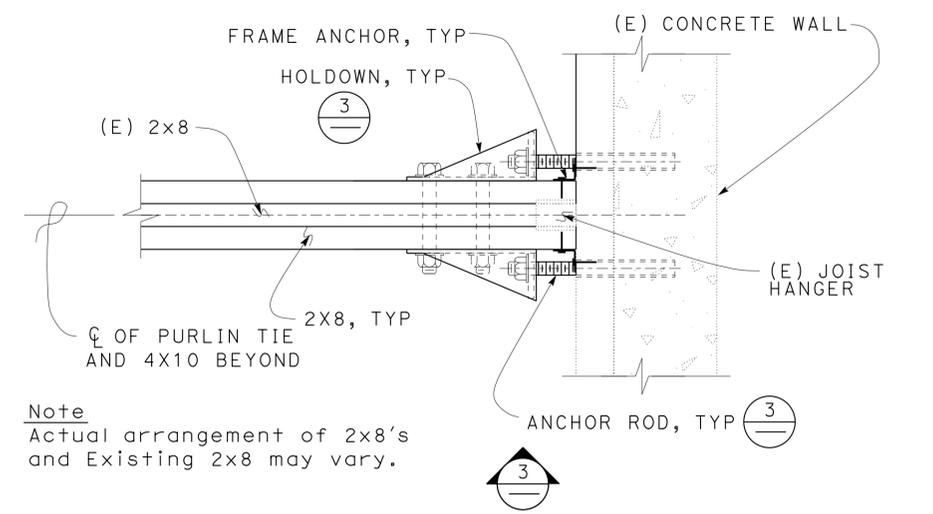
1 PURLIN BUILDUP - ELEVATION
Scale 2" = 1' - 0"



3 PURLIN TO WALL CONNECTION - ELEVATION
Scale 2" = 1' - 0"



2 PURLIN BUILDUP - PLAN
Scale 2" = 1' - 0"



4 PURLIN TO WALL CONNECTION - PLAN
Scale 2" = 1' - 0"

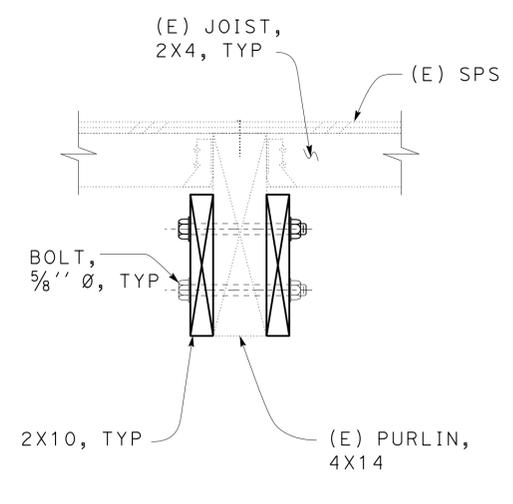
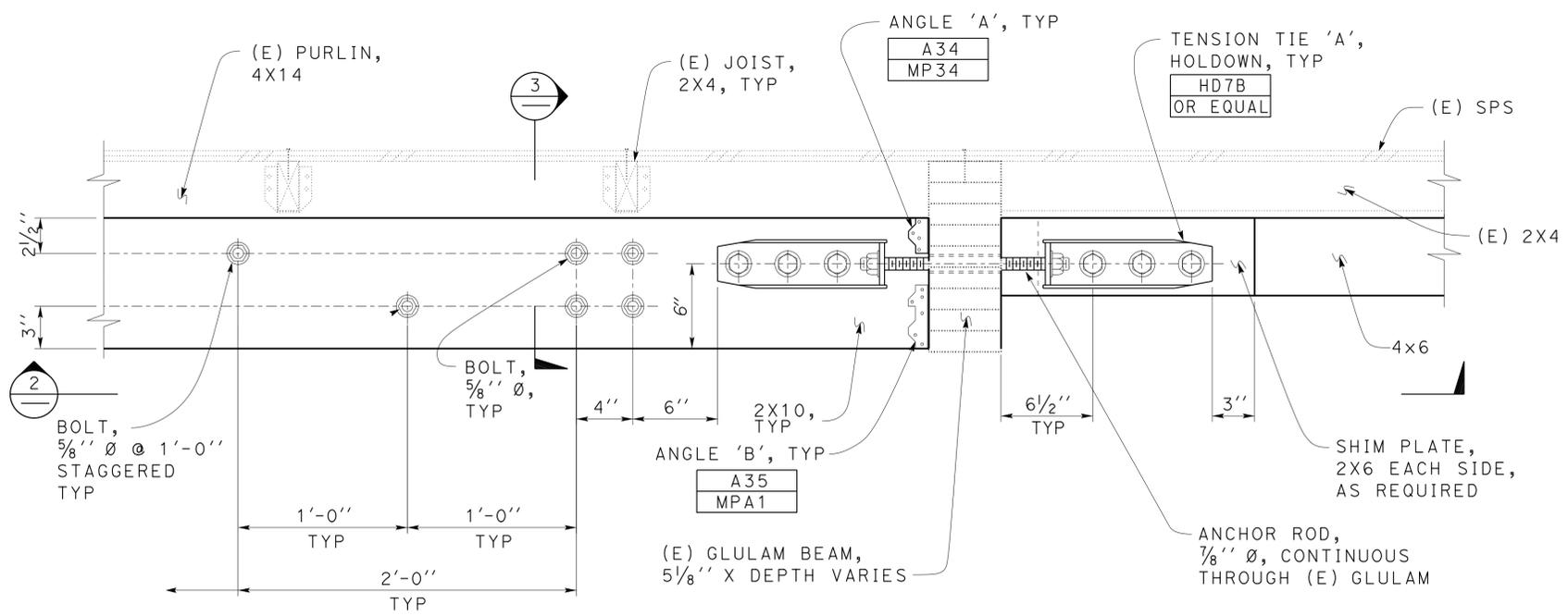
Note
Actual arrangement of 2x8's and Existing 2x8 may vary.

Note
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN BY Dai Lu	CHECKED Joseph Camilleri	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE No. 57M5506	KEARNY MESA MATERIALS LAB PURLIN BUILDUP DETAILS	SHEET ST1-9
DETAILS BY George Rowe	CHECKED Joseph Camilleri		POST MILE 21.8		
QUANTITIES BY	CHECKED		21.8		

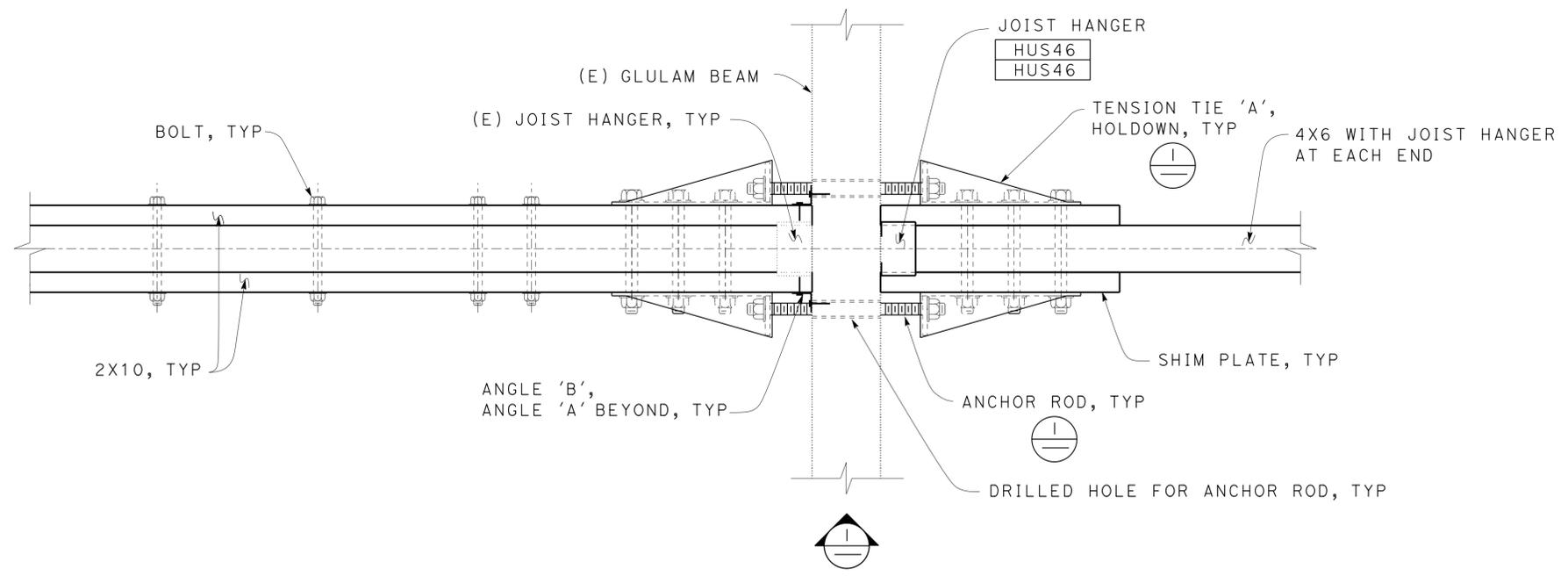
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 11000003451
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 REVISION DATES (PRELIMINARY STAGE ONLY): 11-18-09, 12-08-11, 02-23-12, 06-08-12, 01-09-13
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5506		43	78
<i>Dai Lu</i> REGISTERED CIVIL ENGINEER DATE 12-03-2012			REGISTERED PROFESSIONAL ENGINEER No. 67416 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA		
05-06-13 PLANS APPROVAL DATE					
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1 PURLIN TIE CONNECTION - ELEVATION
Scale 2" = 1' - 0"

3 PURLIN BUILDUP SECTION
Scale 2" = 1' - 0"



2 PURLIN TIE CONNECTION - PLAN
Scale 2" = 1' - 0"

Note
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN BY Dai Lu DETAILS BY George Rowe QUANTITIES BY	CHECKED Joseph Camilleri CHECKED Joseph Camilleri CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 57M5506	KEARNY MESA MATERIALS LAB	SHEET ST1-10	
				POST MILE 21.8			PURLIN TIE DETAILS
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 11000003451	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 11-18-09 12-08-11 02-23-12 06-08-12 01-09-13			SHEET OF

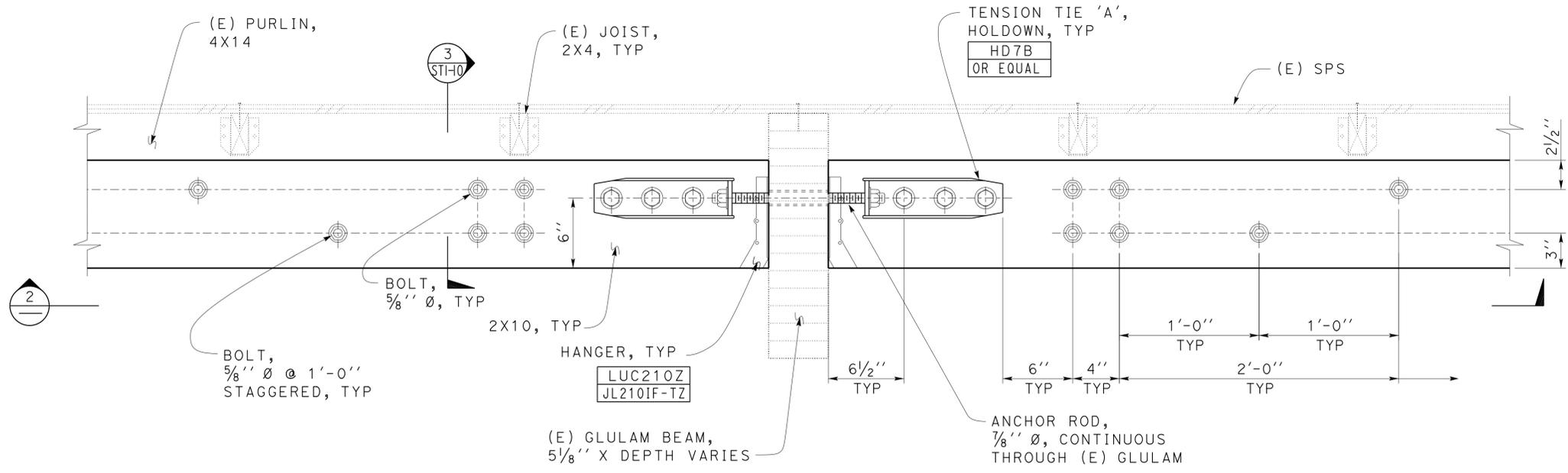
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5506		44	78

Dai Lu
REGISTERED CIVIL ENGINEER
12-03-2012
DATE

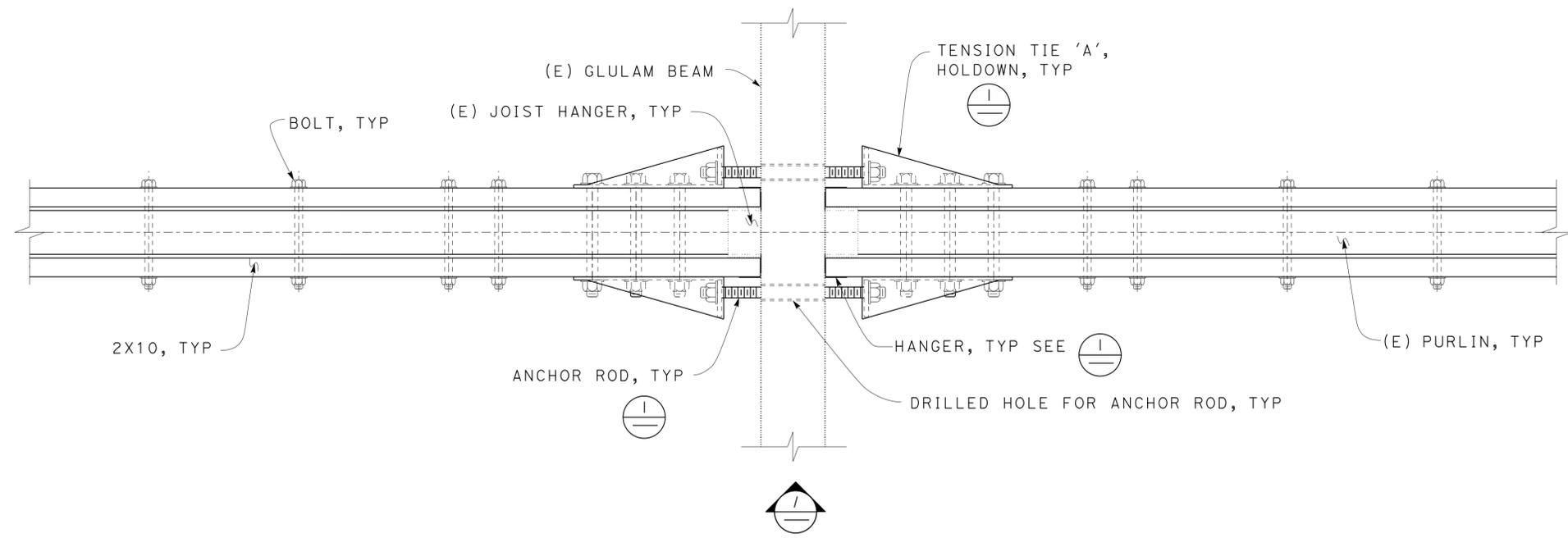
05-06-13
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
Dai Lu
No. 67416
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA



1 PURLIN TIE CONNECTION - ELEVATION
Scale 2" = 1' - 0"



2 PURLIN TIE CONNECTION - PLAN
Scale 2" = 1' - 0"

Note
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN BY Dai Lu	CHECKED Joseph Camilleri	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 57M5506	KEARNY MESA MATERIALS LAB PURLIN TIE DETAILS	SHEET ST1-11	
DETAILS BY George Rowe	CHECKED Joseph Camilleri			POST MILE 21.8		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY	CHECKED			UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 11000003451		DISREGARD PRINTS BEARING EARLIER REVISION DATES	11-18-09 12-09-11 02-23-12 06-08-12 01-09-13

TAEWW Imperial - CCSC Rev. 01/13 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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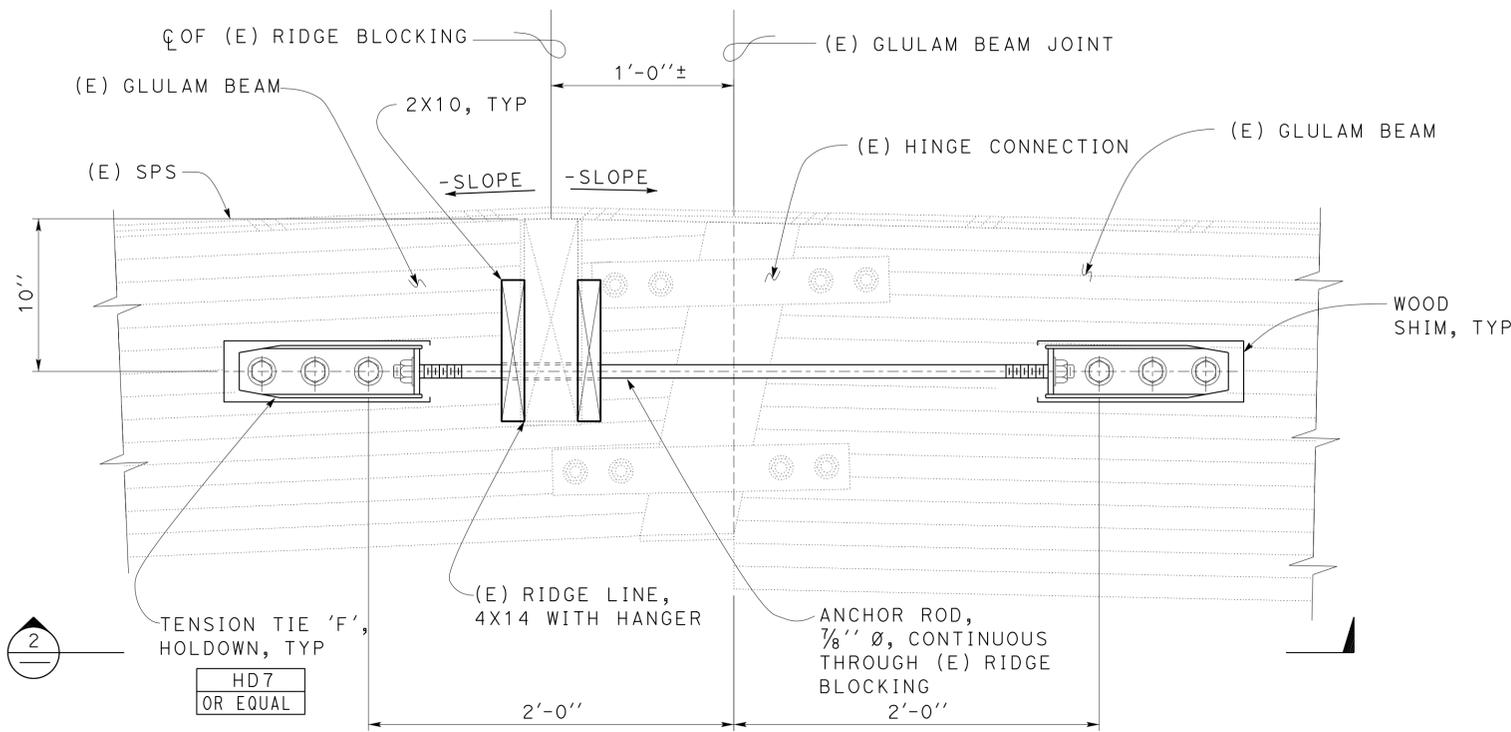
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11	SD	5506		45	78

Dai Lu
REGISTERED CIVIL ENGINEER
DATE 12-03-2012

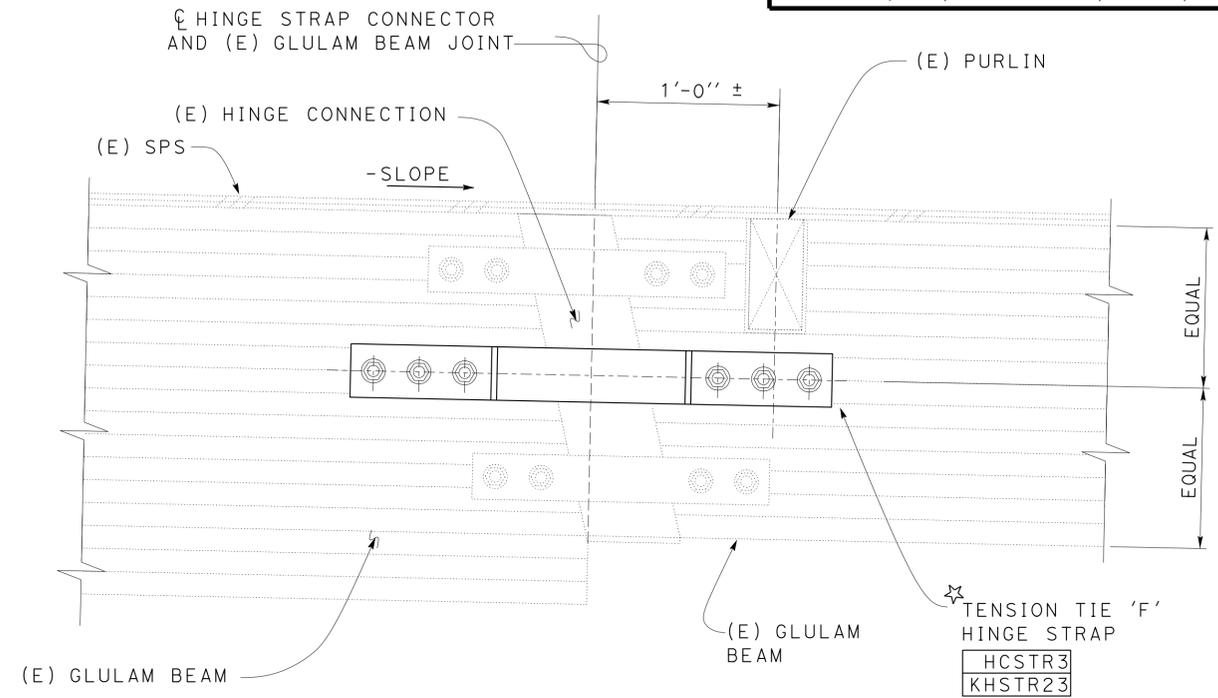
05-06-13
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Dai Lu
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STATE OF CALIFORNIA

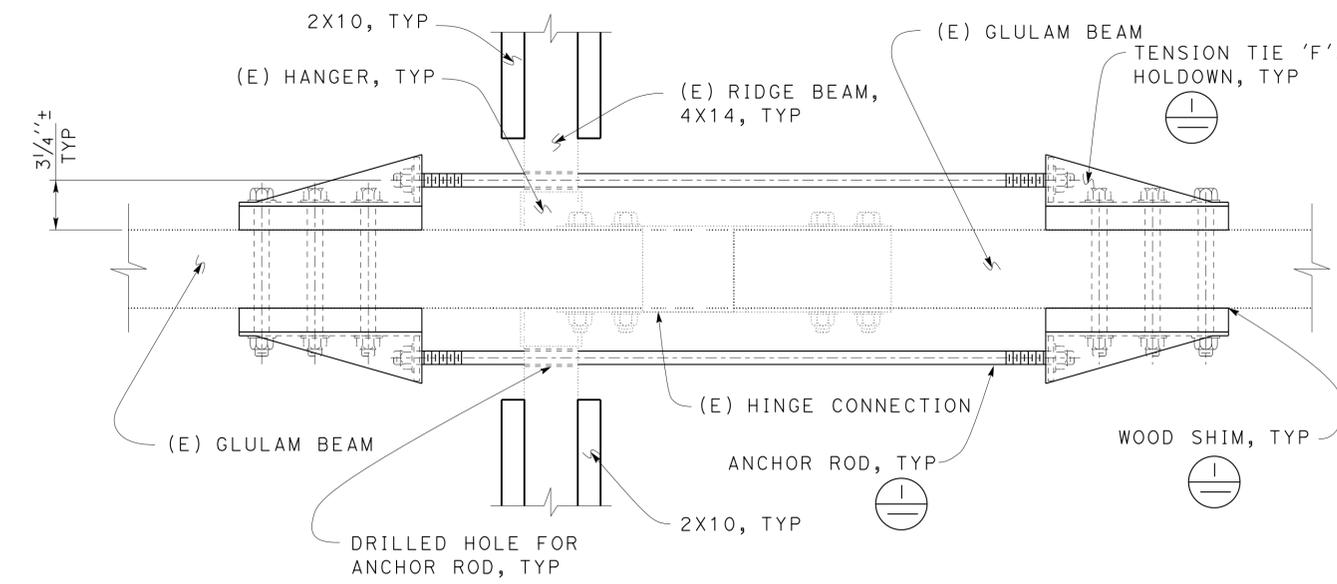


1 **GLULAM BEAM HOLDDOWN TIE CONNECTION - ELEVATION**
Scale 2" = 1' - 0"



- Note
- Place Hinge Straps on both sides of Existing GluLam Beams with through bolts.
 - If there is not enough clearance to install the Hinge Strap, use HD7 Holddown Tie Connection similar to .

3 **GLULAM BEAM STRAP TIE CONNECTION - ELEVATION**
Scale 2" = 1' - 0"



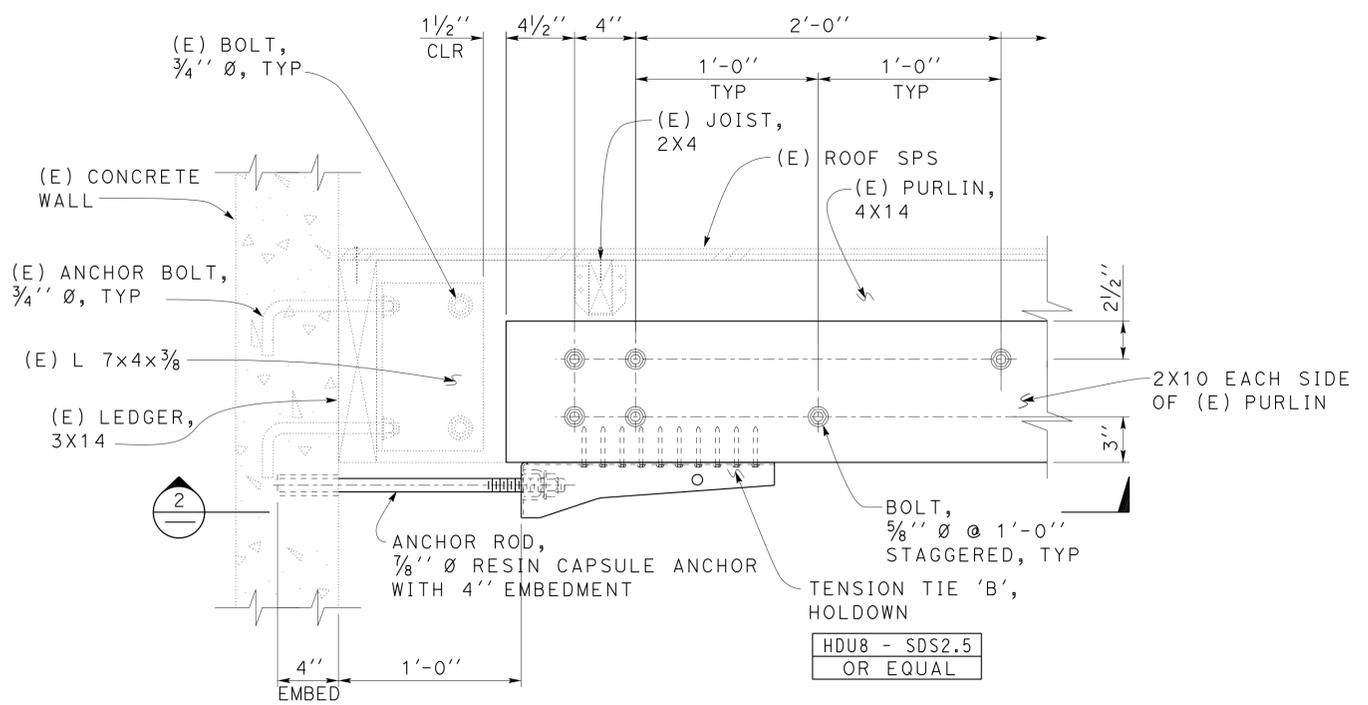
2 **GLULAM BEAM HOLDDOWN TIE CONNECTION - PLAN**
Scale 2" = 1' - 0"

Note
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

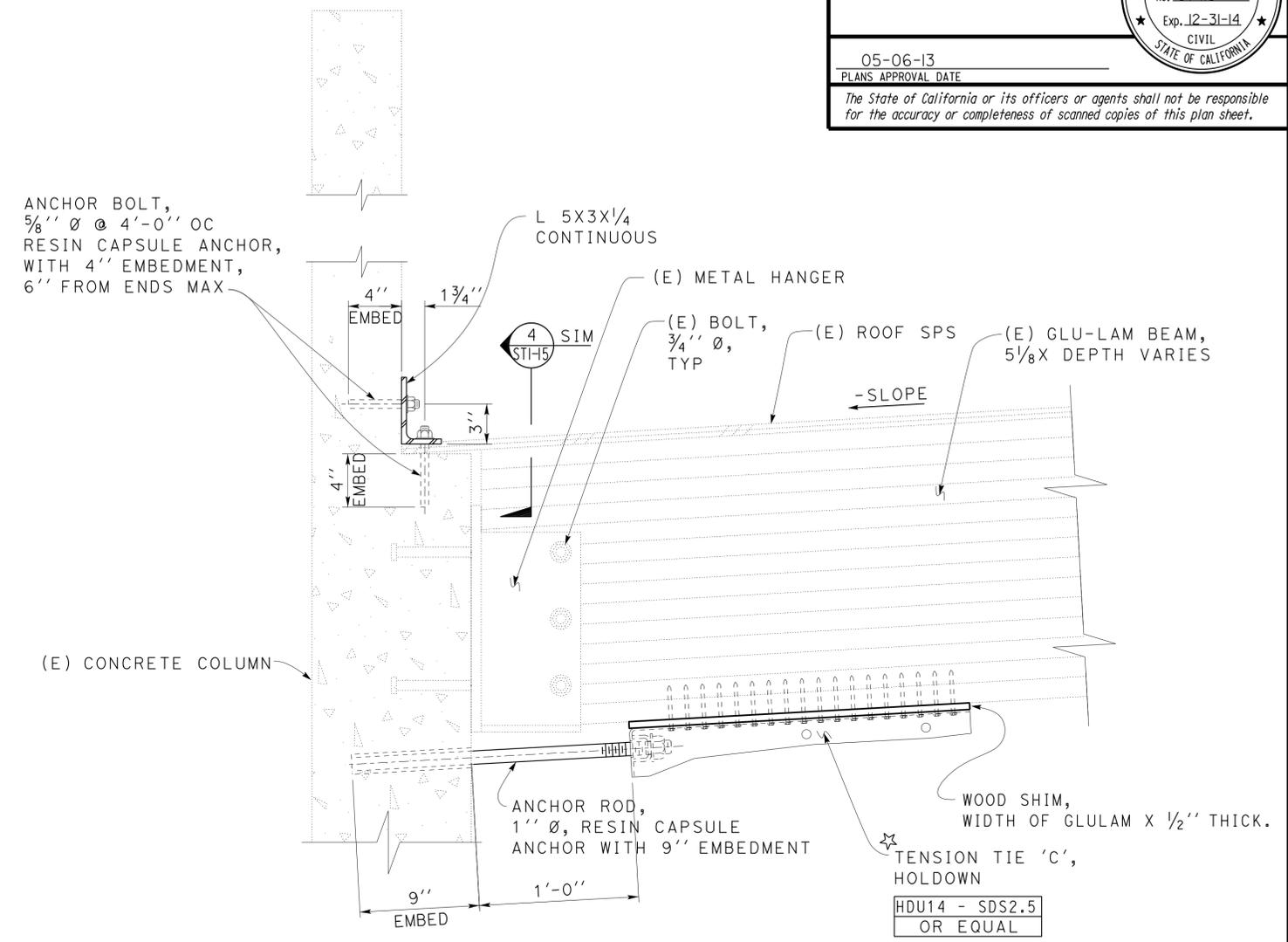
DESIGN BY Dai Lu	CHECKED Joseph Camilleri	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 57M5506 POST MILE 21.8	KEARNY MESA MATERIALS LAB	SHEET ST1-12
DETAILS BY George Rowe	CHECKED Joseph Camilleri		UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 11000003451	DISREGARD PRINTS BEARING EARLIER REVISION DATES	GLULAM BEAM CONNECTION DETAILS	OF
QUANTITIES BY	CHECKED		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	REVISION DATES (PRELIMINARY STAGE ONLY)		

11-18-09 12-08-11 02-23-12 06-08-12 01-09-13

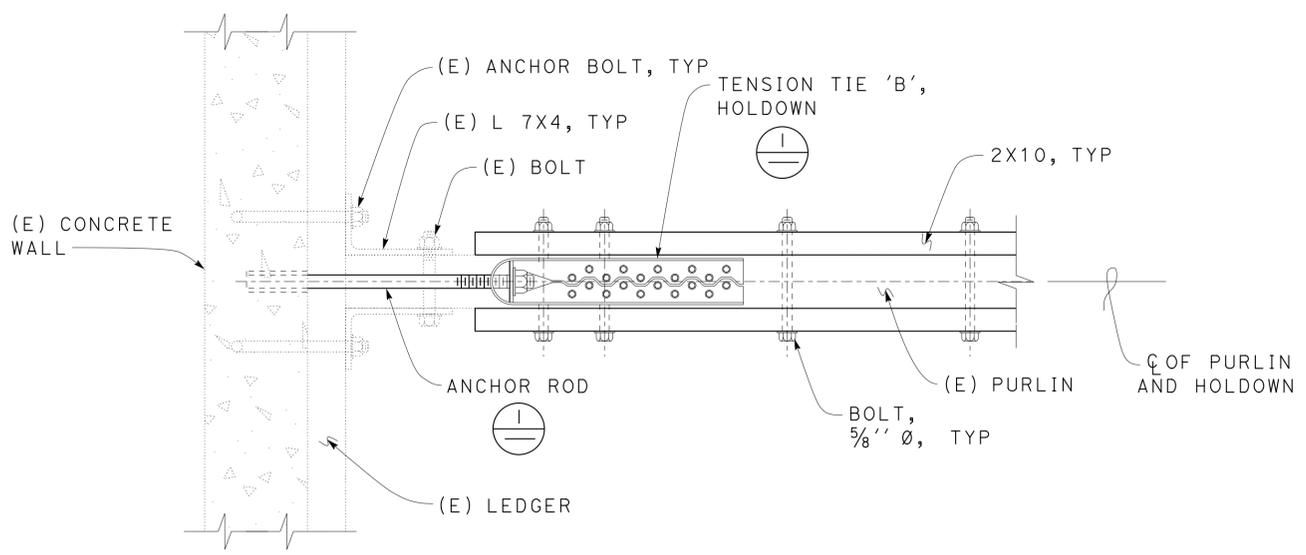
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1 PURLIN HOLDDOWN TO WALL DETAIL
Scale 2" = 1' - 0"



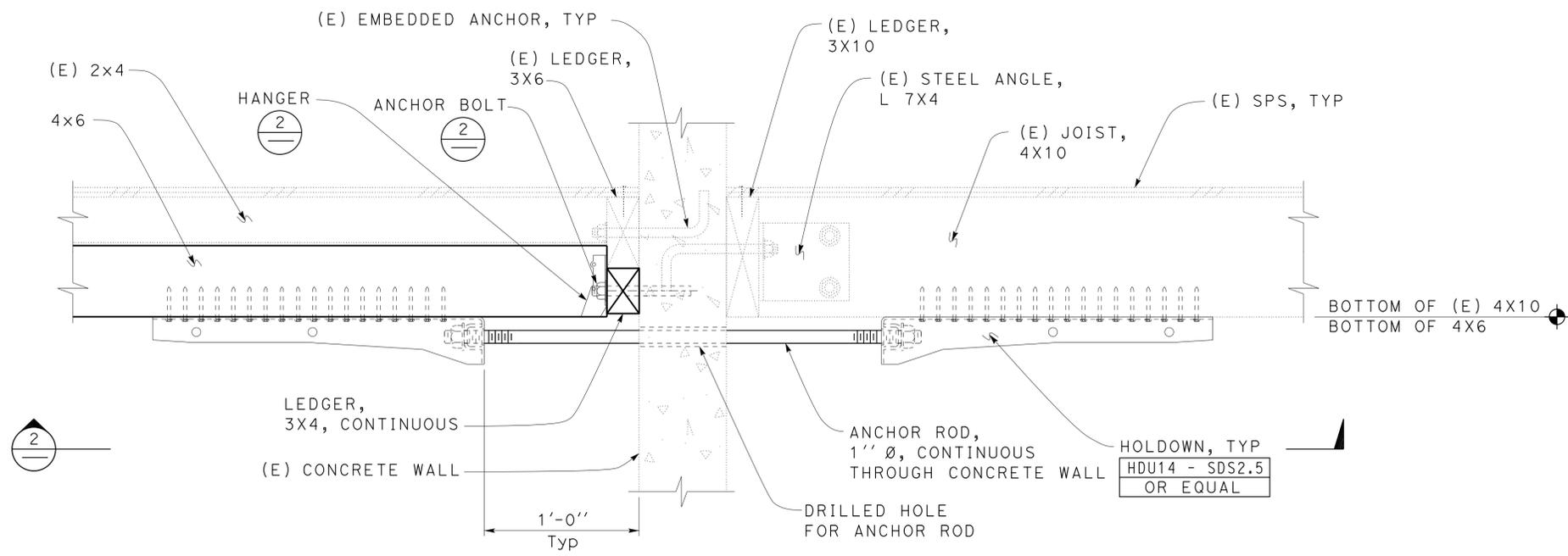
3 GLULAM BEAM TO COLUMN HOLDOWN DETAIL
Scale 2" = 1' - 0"



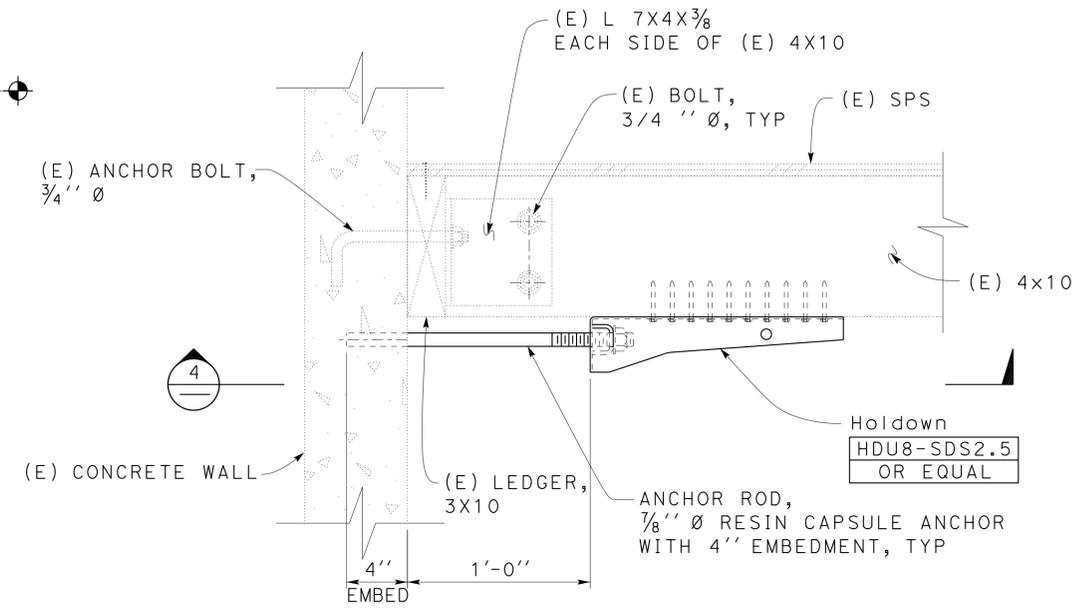
2 PURLIN HOLDDOWN TO WALL SECTION
Scale 2" = 1' - 0"

Note
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

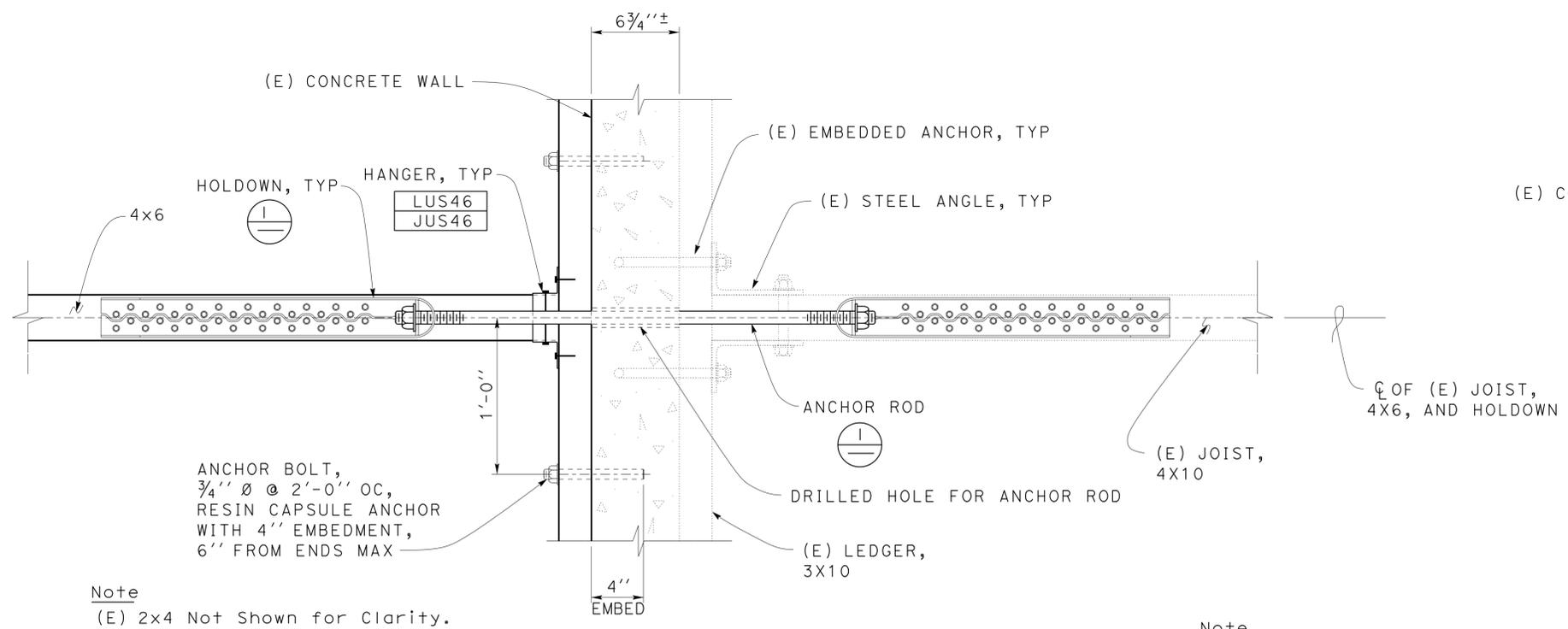
Note
Use Holdown attachment screws shall provide 2 1/2" minimum depth into (E) Glulam Beam



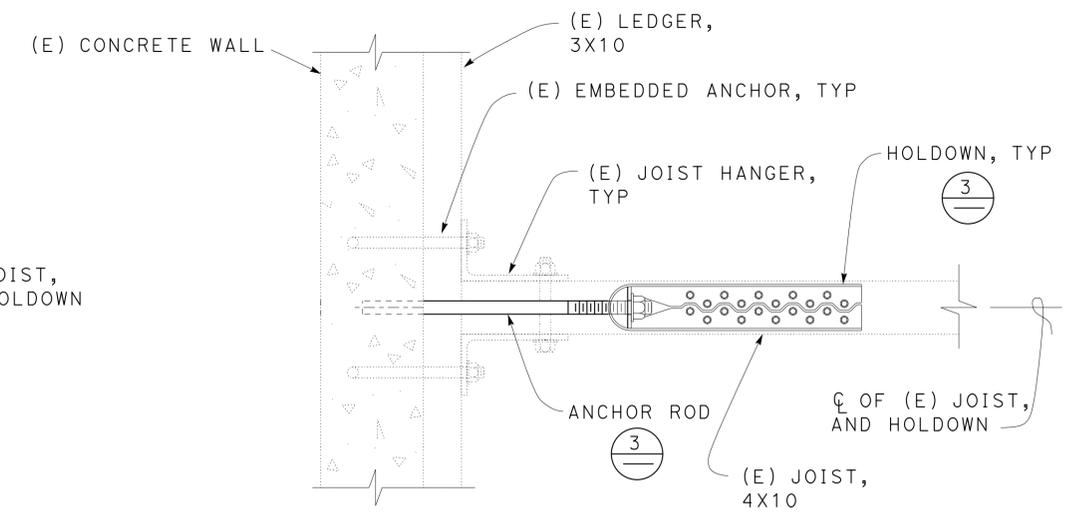
1 JOISTS TIE THRU CONCRETE WALL ELEVATION
Scale 2" = 1' - 0"



3 PURLIN TO WALL ELEVATION
Scale 2" = 1' - 0"



2 JOISTS TIE THRU CONCRETE WALL DETAIL
Scale 2" = 1' - 0"



4 PURLIN TO WALL DETAIL
Scale 2" = 1' - 0"

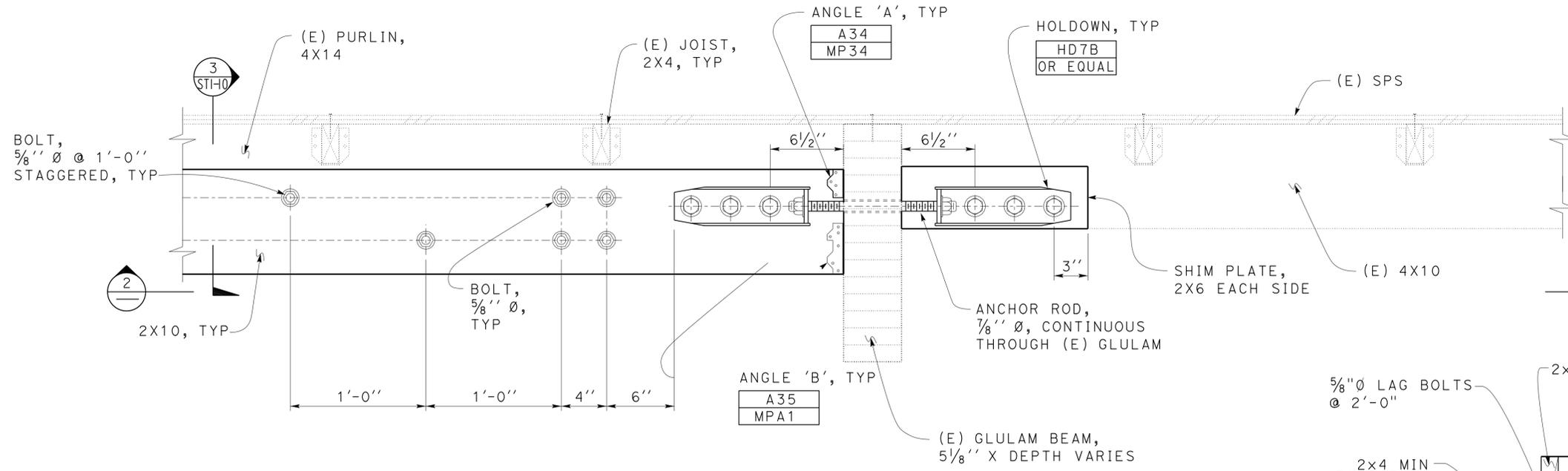
Note
(E) 2x4 Not Shown for Clarity.

Note
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

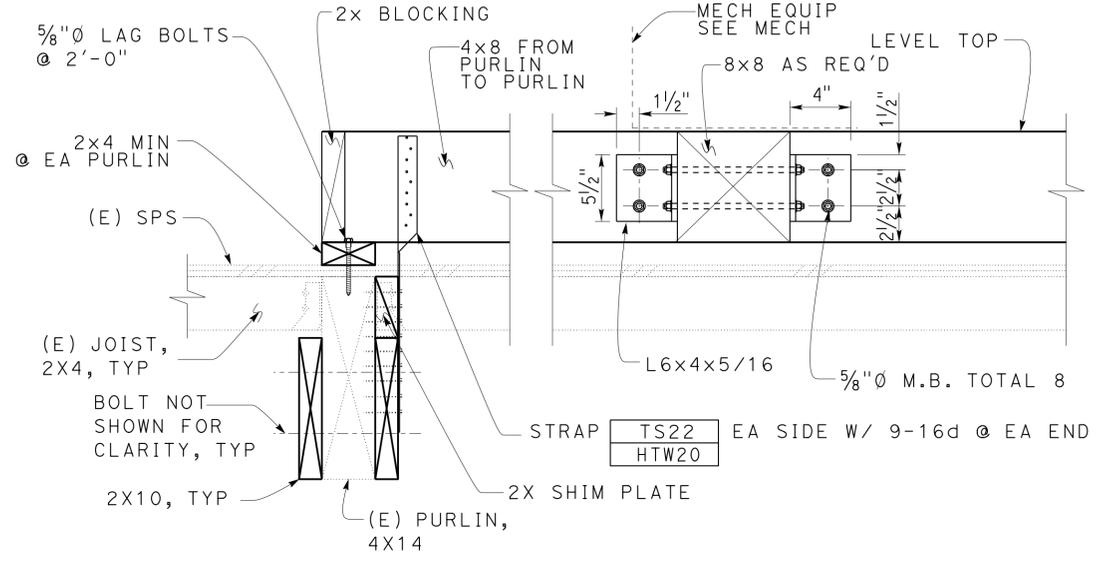
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5506		49	78

<i>Dai Lu</i>		12-03-2012	REGISTERED PROFESSIONAL ENGINEER No. 67416 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA
REGISTERED CIVIL ENGINEER	DATE		
05-06-13 PLANS APPROVAL DATE			

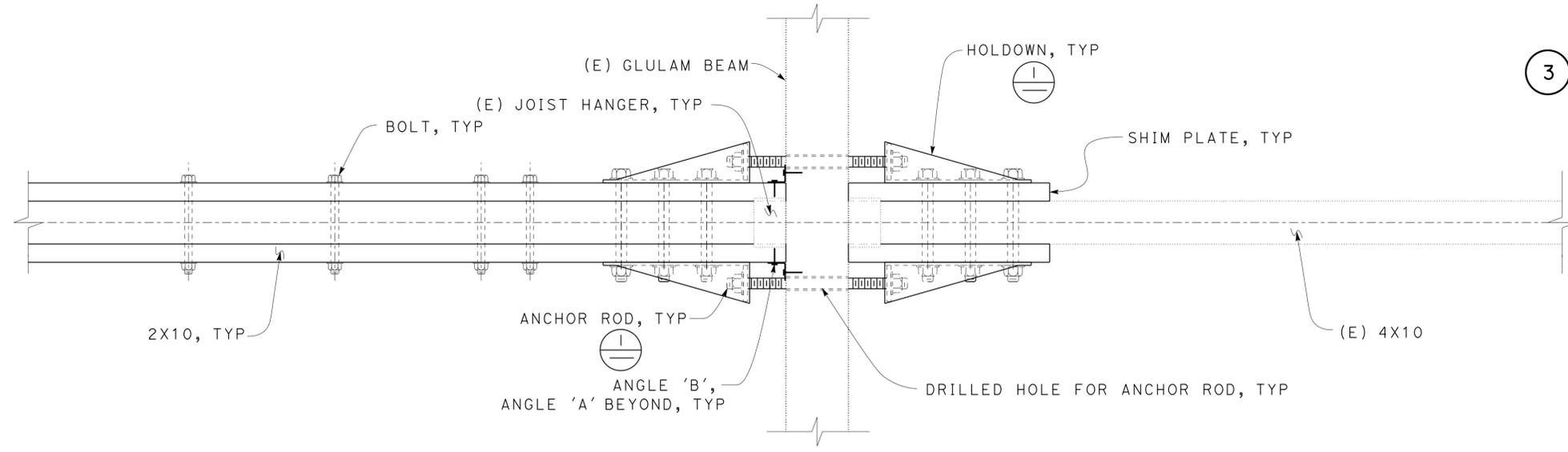
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1 PURLIN TIE DETAIL CONNECTION
Scale 2" = 1' - 0"



3 TYPICAL FRAMING AT MECH EQUIPMENT
Scale 2" = 1' - 0"



2 PURLIN TIE DETAIL
Scale 2" = 1' - 0"

Note
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DESIGN BY Dai Lu DETAILS BY George Rowe QUANTITIES BY	CHECKED Joseph Camilleri	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 57M5506 POST MILE 21.8	KEARNY MESA MATERIALS LAB PURLIN TIE DETAILS	SHEET ST1-16 OF
	CHECKED Joseph Camilleri		UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 11000003451	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 11-18-09 12-08-11 02-23-12 06-08-13

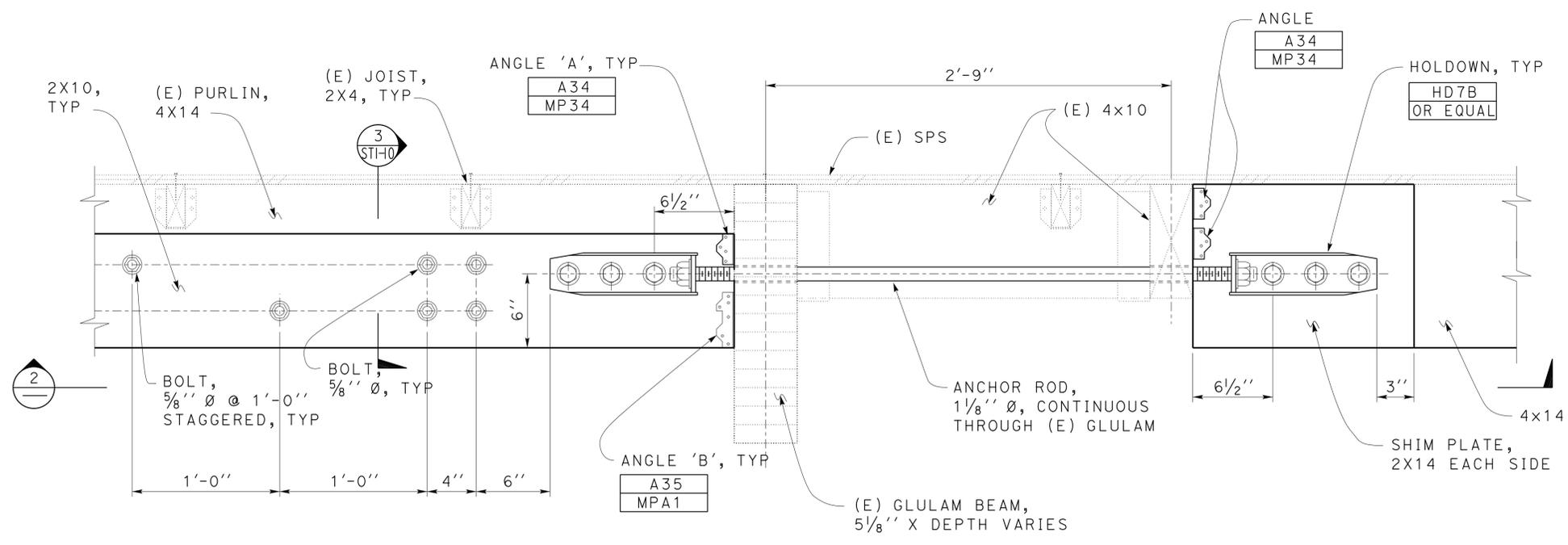
TAEMWW Imperial - CCSC Rev. 01/13 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5506		50	78

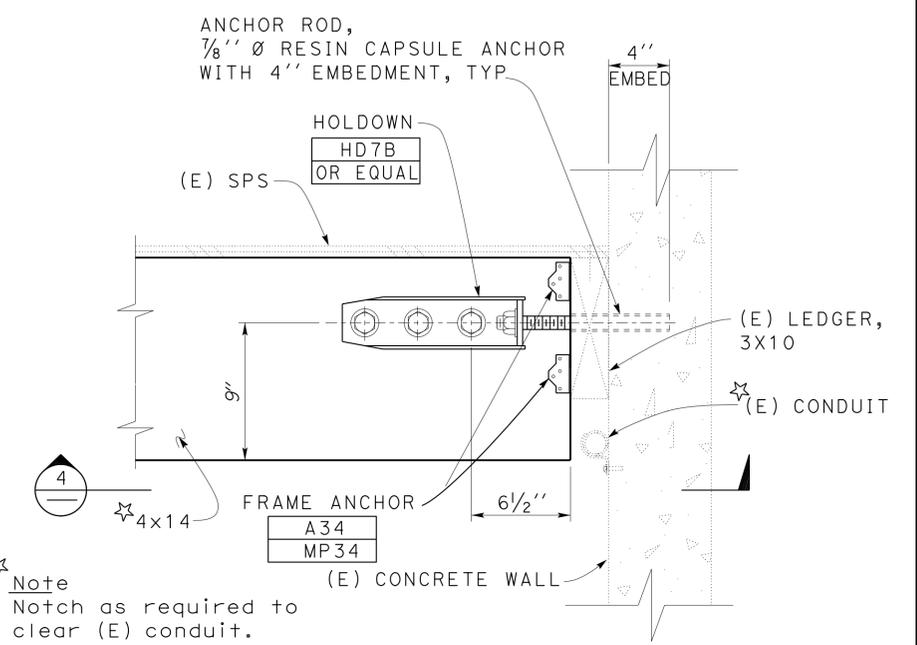
Dai Lu
 REGISTERED CIVIL ENGINEER
 12-03-2012 DATE
 No. 67416
 Exp. 12-31-14
 CIVIL
 STATE OF CALIFORNIA

05-06-13
 PLANS APPROVAL DATE
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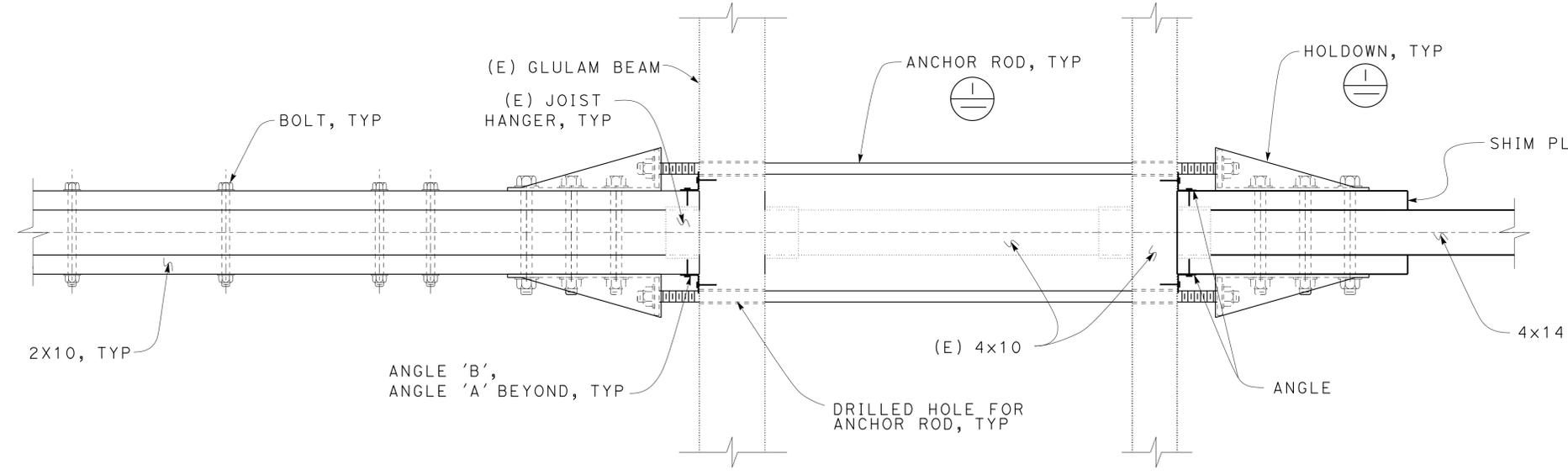


1 PURLIN TIE DETAIL CONNECTION - ELEVATION
 Scale 2" = 1' - 0"

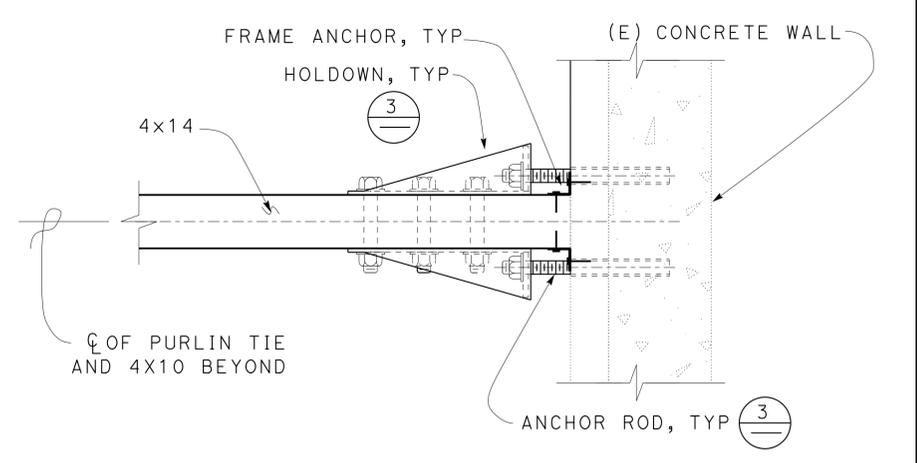
Note
 Remove Existing Ledger Bolt if required, and replace it with a 3/4" Ø Resin Capsule Anchor, spaced at 16", each side of the Existing Ledger Anchor Bolt.



3 PURLIN TO WALL CONNECTION - ELEVATION
 Scale 2" = 1' - 0"



2 PURLIN TIE DETAIL CONNECTION - PLAN
 Scale 2" = 1' - 0"



4 PURLIN TO WALL CONNECTION - PLAN
 Scale 2" = 1' - 0"

Note
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN BY Dai Lu CHECKED Joseph Camilleri	DETAILS BY George Rowe CHECKED Joseph Camilleri	QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 57M5506	KEARNY MESA MATERIALS LAB	SHEET ST1-17
					POST MILE 21.8		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 11000003451		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)
TAEWW Imperial - CCSC Rev. 01/13			0 1 2 3		11-18-09 12-08-11 02-23-12 06-08-12 01-09-13		SHEET OF

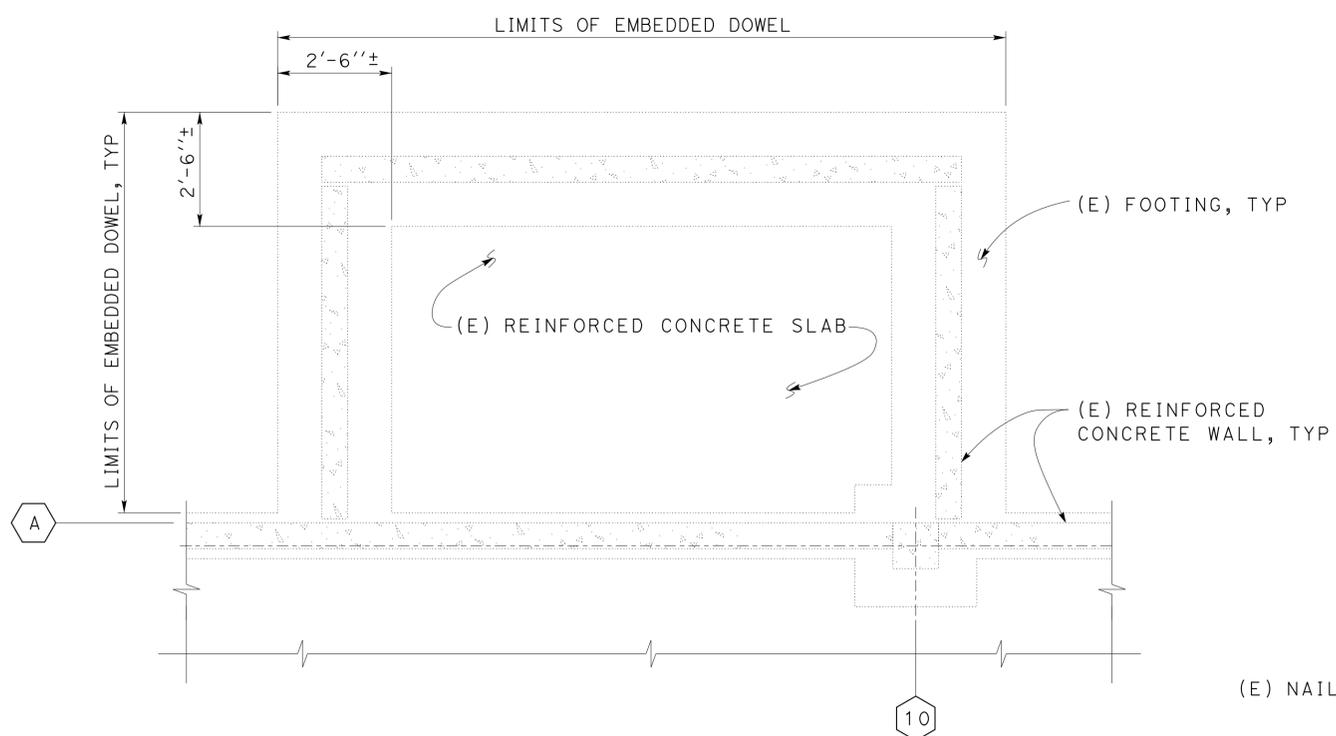
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5506		51	78

Dai Lu
REGISTERED CIVIL ENGINEER
12-03-2012 DATE

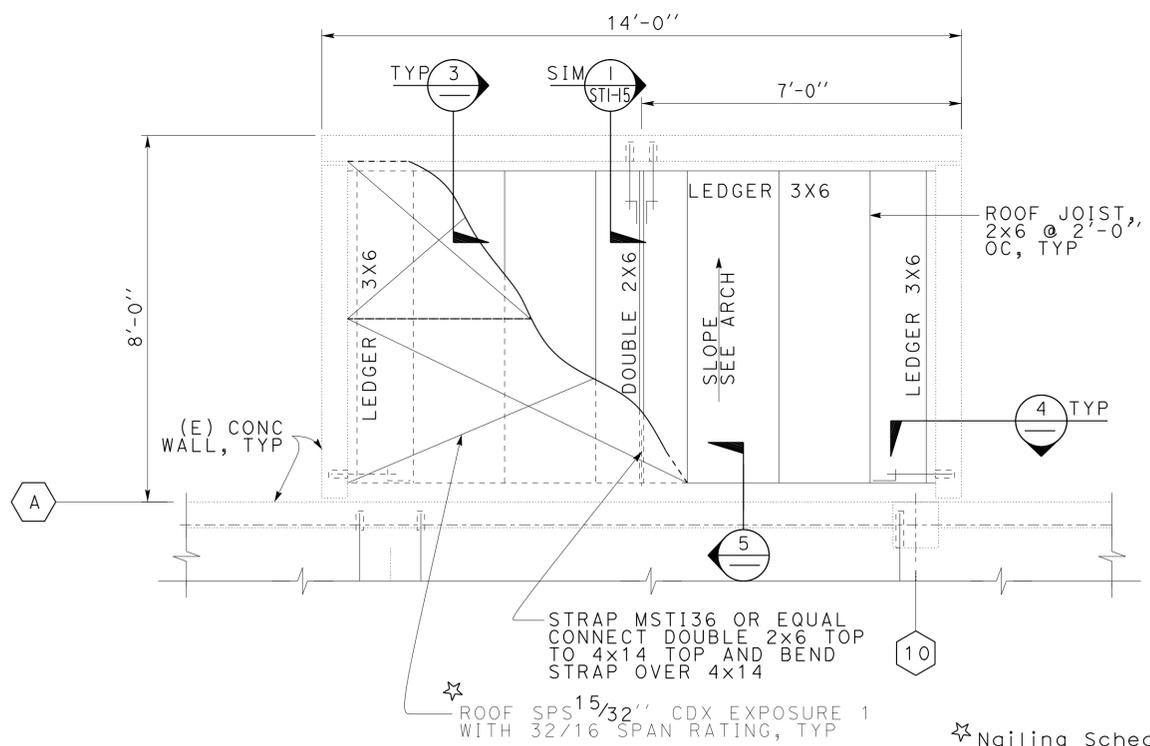
05-06-13
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
Dai Lu
No. 67416
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA



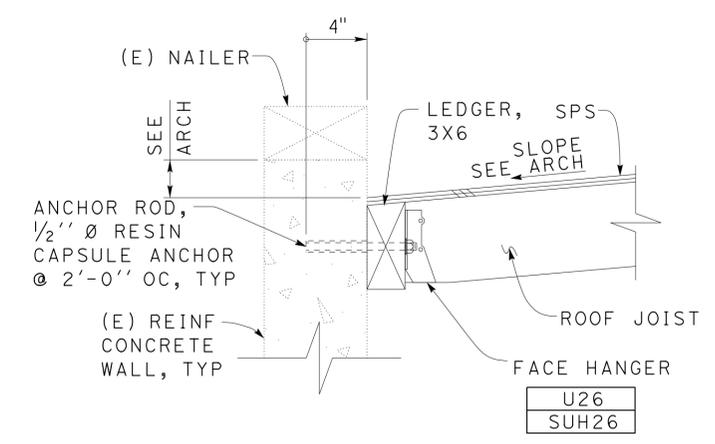
1 PARTIAL FOUNDATION PLAN
Scale 1/2" = 1' - 0"



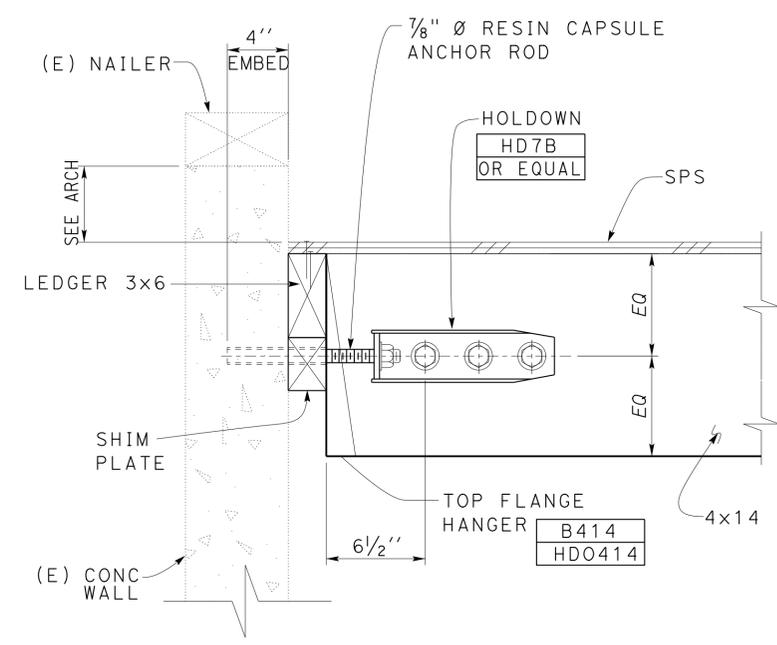
2 PARTIAL ROOF PLAN
Scale 1/2" = 1' - 0"

★ Nailing Schedule

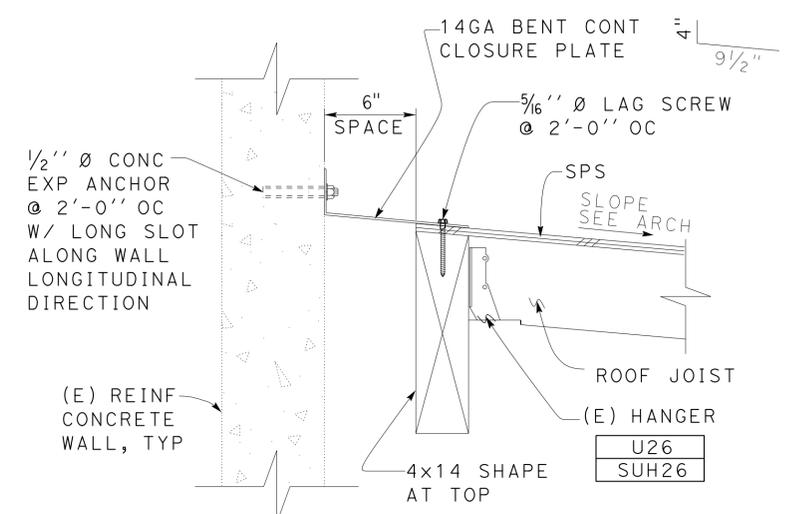
LOCATION	NAILING
Diaphragm Boundaries and continuous Panel Edges	10d @ 4"
All remaining Panel Edges	10d @ 4"
Intermediate Support	10d @ 12"



3 JOIST TO LEDGER DETAIL
Scale 2" = 1' - 0"



4 PURLIN TO WALL CONNECTION - ELEVATION
Scale 2" = 1' - 0"



5 ROOF EXPANSION JOINT DETAIL
Scale 2" = 1' - 0"

Note

The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN BY Dai Lu	CHECKED Joseph Camilleri	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE No. 57M5506	KEARNY MESA MATERIALS LAB PARTIAL PLANS	SHEET ST1-18
DETAILS BY George Rowe	CHECKED Joseph Camilleri		POST MILE 21.8		
QUANTITIES BY	CHECKED		UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 11000003451		DISREGARD PRINTS BEARING EARLIER REVISION DATES

TAEWW Imperial - CCSC Rev. 01/13

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

U:\proj\oad\11-287701_1100000345\New Folder\51_st1_18.dgn

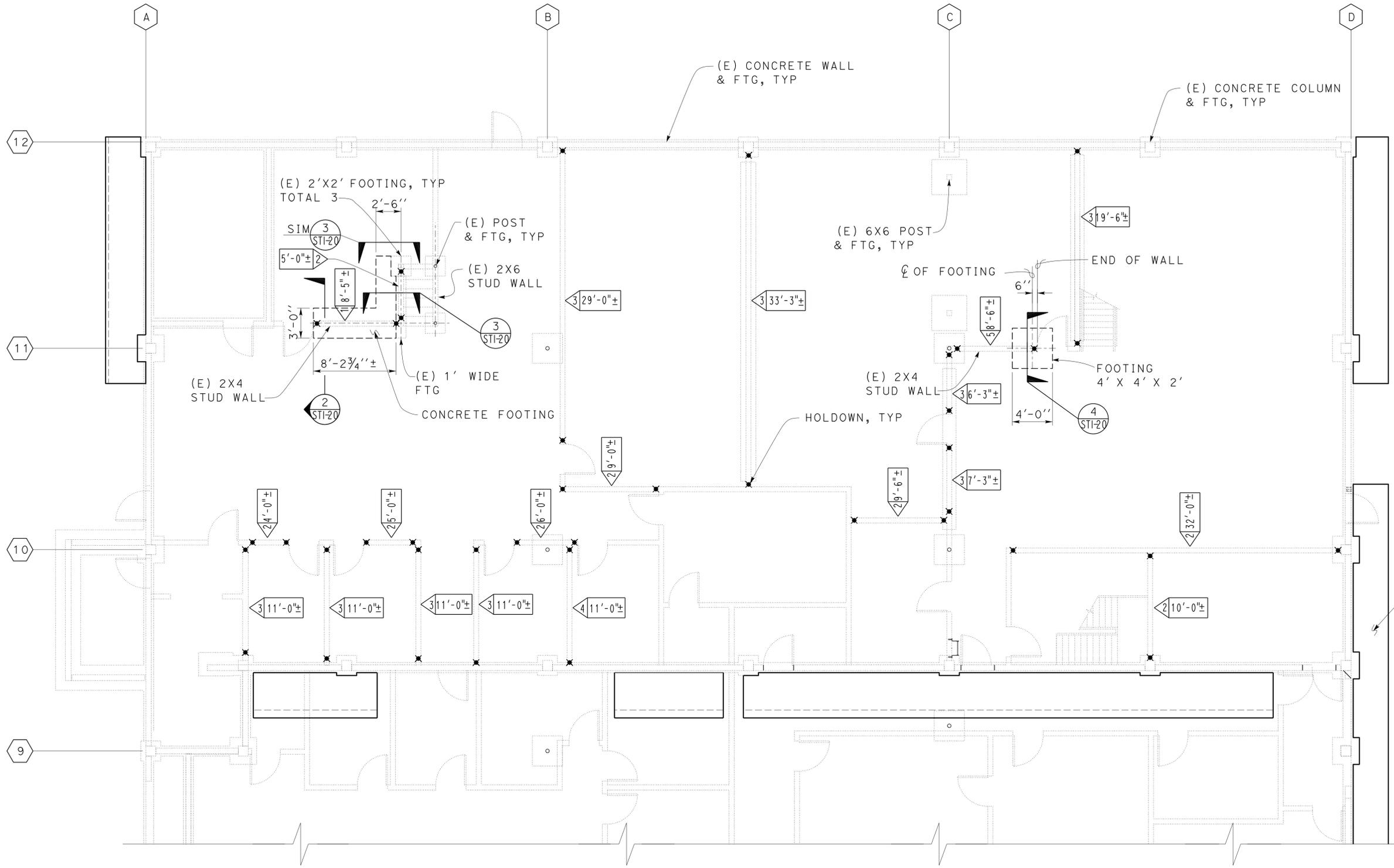
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5506		52	78

Dai Lu
REGISTERED CIVIL ENGINEER
DATE 12-03-2012

PLANS APPROVAL DATE 05-06-13

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REGISTERED PROFESSIONAL ENGINEER
Dai Lu
No. 67416
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA



SYMBOLS

Shear Wall ID \triangleleft XXXX

Holddown \times

Note
For Shear Wall Schedule see $\textcircled{1}$ STI-20

1 MEZZANINE SHEAR WALL LAYOUT
Scale $\frac{3}{16}'' = 1' - 0''$

Note
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN BY Dai Lu	CHECKED Joseph Camilleri	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 57M5506	KEARNY MESA MATERIALS LAB MEZZANINE SHEAR WALL LAYOUT	SHEET ST1-19	
DETAILS BY George Rowe	CHECKED Joseph Camilleri			POST MILE 21.8		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY	CHECKED			UNIT: 3599 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 11000003451		DISREGARD PRINTS BEARING EARLIER REVISION DATES	11-18-09 12-09-11 02-23-12 06-08-12 01-09-13

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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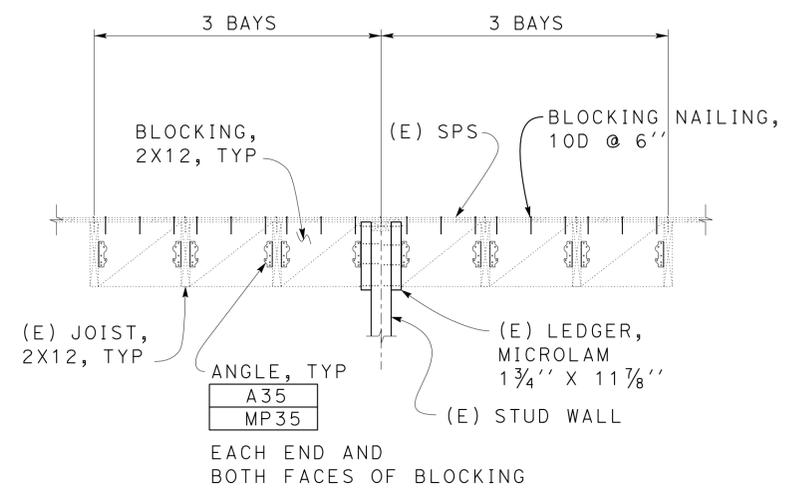
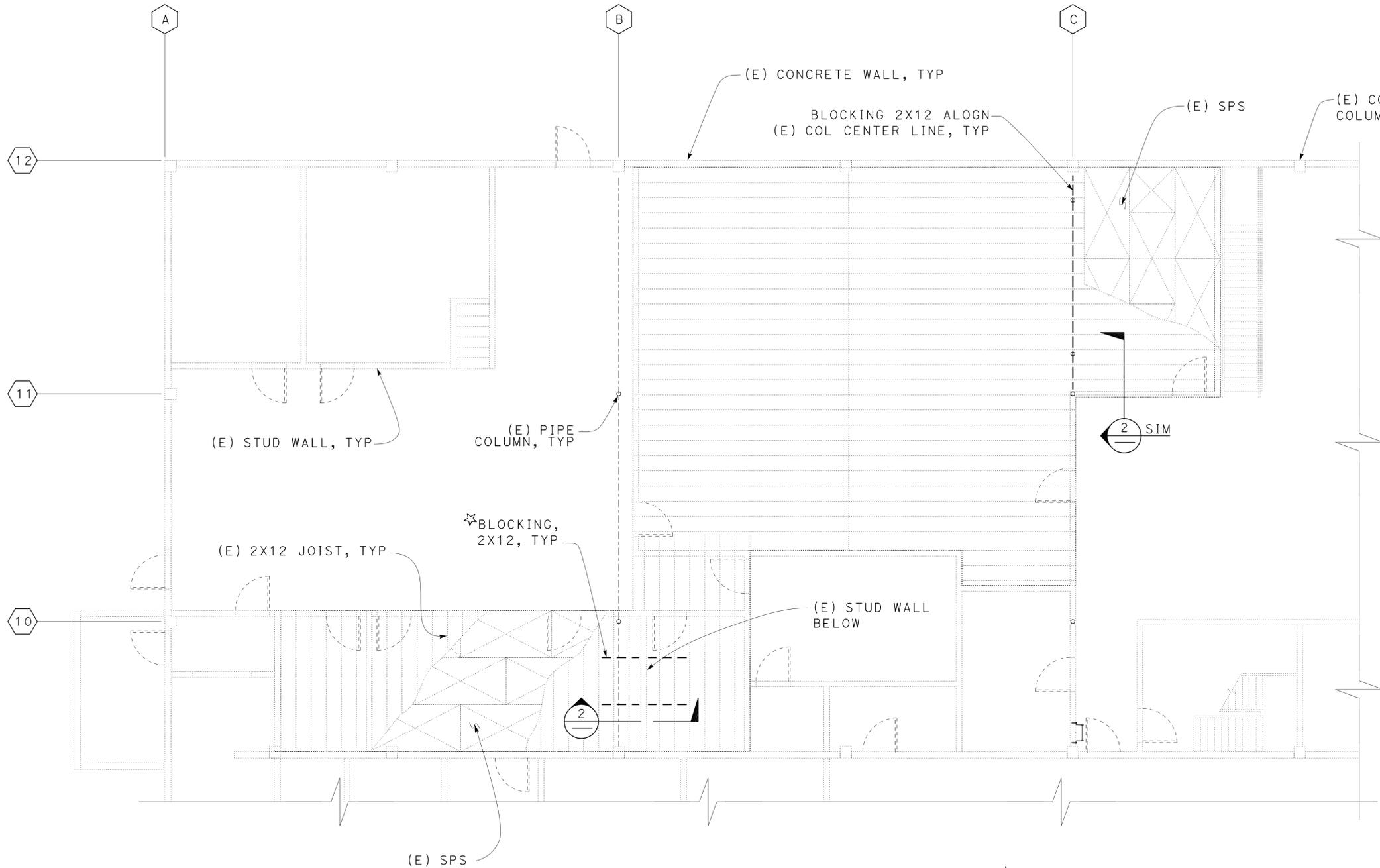
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5506		54	78

Dai Lu
REGISTERED CIVIL ENGINEER
12-03-2012
DATE

05-06-13
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
Dai Lu
No. 67416
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA



1 MEZZANINE FLOOR PLAN
Scale 3/16" = 1' - 0"

2 JOIST BLOCKING DETAIL
Scale 3/4" = 1' - 0"

Note
1. Blocking to align with (E) SPS edges.
2. Nail the (E) SPS edges to the new blocking with 10d @ 6" oc.

Note
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN BY	Dai Lu	CHECKED	Joseph Camilleri
DETAILS BY	George Rowe	CHECKED	Joseph Camilleri
QUANTITIES BY		CHECKED	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No.	57M5506
POST MILE	21.8

KEARNY MESA MATERIALS LAB
MEZZANINE FLOOR PLAN AND DETAILS

SHEET ST1-21 OF



REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
11-18-09 12-08-11 02-23-12 06-08-12 01-09-13		

CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 5 of 5) MECH -1C

PROJECT NAME: KEARNY MESA MATERIALS LAB DATE: 04-10-2012

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I Certify That This Certificate of Compliance Documentation is Accurate and Complete.

Name: TOM HATAM Signature: *Tom Hatam*

Company: DEPARTMENT OF TRANSPORTATION Date: 04-10-2012

Address: 1801 30th STREET If Applicable CEA# CEPE#

City/State/Zip: SACRAMENTO, CA 95814 Phone: 916-227-8351

PRINCIPAL MECHANICAL DESIGNER'S DECLARATION STATEMENT

- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the mechanical design.
- This Certificate of Compliance identifies the mechanical features and performance specifications required for compliance with Title 24, Parts 1 and 6 of the California Code of Regulations.
- The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name: TOM HATAM Signature: *Tom Hatam*

Company: DEPARTMENT OF TRANSPORTATION Date: 04-20-2012

Address: 1801 30th STREET License# M33666

City/State/Zip: SACRAMENTO, CA. 95814 Phone: 916-227-8351

MANDATORY MEASURES
Indicate location on building plans of Note Block for Manatory Measures: _____

MECHANICAL COMPLIANCE FORMS & WORKSHEETS (Check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2008 Nonresidential Manual Note: The Enforcement Agency may require all forms to be incorporated onto the building plans.

<input type="checkbox"/>	MECH-1-C	Certificate of Compliance. Required on plans for all submittals.
<input type="checkbox"/>	MECH-2-C	Mechanical Equipment Summary is required for all submittals.
<input checked="" type="checkbox"/>	MECH-3-C	Mechanical Ventilation and Reheat is required for all submittals with mechanical ventilation.
<input type="checkbox"/>	MECH-4-C	Fan Power Consumption is required for all prescriptive submittals.

2008 Nonresidential Compliance Forms April 2010

CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 4 of 4) ENV -1C

PROJECT NAME: KEARNY MESA MATERIALS LAB DATE: 04-10-2012

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I Certify That This Certificate of Compliance Documentation is Accurate and Complete.

Name: ANTHONY V. MANANSALA Signature: *A. Manansala*

Company: DEPARTMENT OF TRANSPORTATION Date: 04-10-2012

Address: 1801 30th STREET If Applicable CEA# CEPE#

City/State/Zip: SACRAMENTO, CA 95814 Phone: 916-227-8289

PRINCIPAL MECHANICAL DESIGNER'S DECLARATION STATEMENT

- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the design.
- This Certificate of Compliance identifies the envelope features and performance specifications required for compliance with Title 24, Parts 1 and 6 of the California Code of Regulations.
- The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name: ANTHONY V. MANANSALA Signature: *A. Manansala*

Company: DEPARTMENT OF TRANSPORTATION Date: 04-10-2012

Address: 1801 30th STREET License# C 32260

City/State/Zip: SACRAMENTO, CA 95814 Phone: 916-227-8289

ENVELOPE MANDATORY MEASURES
Indicate location on building plans of Mandatory Envelope Measures Note Block: _____

INSTRUCTIONS TO APPLICANT ENVELOPE COMPLIANCE & WORKSHEETS (Check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Compliance Manual.

<input type="checkbox"/>	ENV-1-C	Certificate of Compliance and Field Inspections Energy Checklist required on plans for all submittals.
<input type="checkbox"/>	ENV-2-C	Use with the Envelope Component Approach. Optional on Plans.
<input type="checkbox"/>	ENV-3-C	Use with the Overall Envelope TDV Energy Approach. Optional on plans.
<input type="checkbox"/>	ENV-4-C	Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans.

2008 Nonresidential Compliance Forms April 2010

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECTS	SHEET NO.	TOTAL SHEETS
11	SD	5506		55	78

REGISTERED ENGINEER-MECHANICAL 12-04-12
 JACK WHEELER
 No. M21648
 Exp. 6-30-15
 MECH
 STATE OF CALIFORNIA

05-06-13
 PLANS APPROVAL DATE

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CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Francis Solich*
 FRANCIS SOLICH
 Approval date: 03-26-2013
 CSFM No. 01-37-11-0062

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY Jack Wheeler CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 57M5506	KEARNY MESA MATERIALS LAB	SHEET M-00	
			POST MILE -			TITLE 24
			UNIT PROJECT NUMBER & PHASE 3615 11000003451			DISREGARD PRINTS BEARING EARLIER REVISION DATES
DETAILS BY Rudy Sarte CHECKED Jack Wheeler	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	EA 28701	FILE => 55_m_00.dgn DATE PLOTTED => 17-JUN-2013 TIME PLOTTED => 09:38	DS OSD 2139A (4/89) FILE NO.:	USERNAME => s127400 DATE PLOTTED => 17-JUN-2013 TIME PLOTTED => 09:38	

PLUMBING

PIPE FITTINGS AND VALVES

- — — — Cold Water
- A — — Compressed Air
- F — — Fire Service Water Line
- G — — Gas
- D — — Equipment Drain
- RD — — Roof Drain
- OD — — Overflow Drain
- RWL — — Rain Water Leader
- — — — Hot Water
- R — — Relief Valve Discharge Pipe
- S — — Sewer Line
- — — — Sanitary Sewer (Above Grade)
- — — — Sewer Line
- — — — Sanitary Sewer Vent

- — — — Cap, Threaded
- — — — Elbow, Turned Down
- — — — Elbow, Turned Up
- — — — Reducer, Concentric
- — — — Pressure Gauge (With Gage Cock And Snubber)
- — — — Strainer
- — — — Union
- — — — Union, Insulating
- — — — Valve, Ball
- — — — Valve, Check
- — — — Valve, Gas
- — — — Valve, Gate
- — — — Valve, Safety Relief
- — — — Valve, Pressure Reducing
- — — — Valve, Pressure/Temperature
- — — — Water Hammer Arrestor

HEATING, VENTILATING AND AIR CONDITIONING

MISCELLANEOUS

- — — — Balance Damper
- — — — Flexible Duct
- EA — — Exhaust Air
- RA — — Return Air
- SA — — Supply Air
- ☒ SIZE Exhaust Register
- □ or □ SIZE Return Register, See Note
- ← □ or □ SIZE Supply Diffuser, See Note
- ⊙ T Thermostat
- ⊙ TS Time Switch
- ⊙ EF Exhaust Fan
- ⊙ FE Fire Extinguisher
- ⊙ CHLF Combination Heat Lamp, Light And Fan Unit

- L Angle
- ⊕ Centerline
- ∅ Diameter
- ⊕ Section/Elevation By Letters
- — — — Sheet Number
- ⊕ Details By Number
- — — — Sheet Number

- A/C Air Conditioning
- ABS Acrylonitrile Butadiene Styrene
- AC Asphalt Concrete
- AD Air Drop
- AP Alternative Pipe
- ATF Automatic Transmission Fluid
- BFP Backflow Preventer
- Bldg. Building
- BTU British Thermal Unit
- BTUH British Thermal Unit Per Hour
- BV Balancing Valve
- C Conduit
- Cap. Capacity
- CHLF Combination Heat Lamp, Light And Fan Unit
- CI Cast-Iron
- CO Cleanout
- COTF Cleanout Through Floor
- COTG Cleanout Through Grade
- CV Check Valve
- CW Cold Water
- CFM Cubic Feet Per Minute
- D Depth
- Dia. Diameter
- DWV Drain/Waste/Vent
- DB Dry Bulb
- DF Drinking Fountain
- DH Duct Heater
- (E) Existing
- EA Exhaust Air
- EEW Emergency Eyewash And Shower
- EF Exhaust Fan
- Elev. Elevation
- Elect. Electrical
- ESP External Static Pressure
- EWC Electric Water Cooler
- EWH Electric Water Heater
- °F Fahrenheit
- FC Flexible Connection
- FD Floor Drain
- FDC Fire Department Connection
- FE Fire Extinguisher
- FG Finish Grade
- FL Flow Line
- FH Fire Hydrant
- FS Flow Switch
- FTR Flue Thru Roof

- Ga Gauge
- Gal. Galvanized
- GH Ground Hydrant
- GV Globe Valve
- GPM Gallons Per Minute
- GSP Galvanized Steel Pipe
- GV Gate Valve
- GWH Gas Water Heater
- Gyp. Gypsum
- H Height
- HB Hydrant Box
- H/C Hot Water, High Pressure Cleaner
- HF Hose Faucet
- HVAC Heating, Ventilating And Air Conditioning
- HW Hot Water
- HZ Hertz
- ID Inside Diameter
- IE Invert Elevation
- In Inch
- IPS International Pipe Standard
- KS Kitchen Sink
- Kw Kilowatt
- LAV Lavatory
- LPG Liquefied Petroleum Gas
- L/s Liters Per Second
- Max. Maximum
- MH Manhole
- Min. Minimum
- MS Mop Sink
- (N) New
- NIC Not In Contract
- No. Number
- NPT National Pipe Thread
- NST National Standard Thread
- NPS Nominal Pipe Size
- OA Outside Air
- OC On Center
- OD Outside Diameter
- OG Original Ground
- Ph Phase
- POC Point Of Connection
- PVC Polyvinyl Chloride
- PCC Portland Cement Concrete
- PSI Pounds Per Square Inch
- PRV Pressure Reducing Valve

- R Radius
- RH Radiant Heater
- REG Register
- RCP Reinforced Concrete Pipe
- RV Relief Valve
- Req. Required
- RA Return Air
- RD Roof Drain
- SDS Sanitary Dump Station
- SS Sanitary Sewer
- Sch Schedule
- S/S Service Sink
- SHR Shower
- Std. Standard
- S.P. Static Pressure
- Sta. Station
- SA Supply Air
- SF Supply Fan
- TCV Temperature Control Valve
- TP Trap Primer
- Tot. Total
- TS Time Switch
- Typ. Typical
- UH Unit Heater
- UR Urinal
- V Vent
- VAC Voltage, Alternating Current
- VR Vent Riser
- VTR Vent Thru Roof
- W Width
- W/ With
- W/O Without
- WB Wet Bulb
- WC Water Closet
- W.C. Water Column
- W.H. Wall Hydrant
- W.H.A. Water Hammer Arrestor
- WLS Water Level Switch
- WP Weatherproof
- WSI Wash Sink
- WSP Welded Steel Pipe

CALIFORNIA STATE FIRE MARSHAL
APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *[Signature]*
FRANCIS SOLICH
 Approval date: 03-26-2013
 CSFM No. 01-37-11-0062

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECTS	SHEET NO.	TOTAL SHEETS
11	SD	5506		56	78

12-04-12
 REGISTERED ENGINEER-MECHANICAL
JACK WHEELER
 No. M21648
 Exp. 6-30-15
 MECH
 STATE OF CALIFORNIA

05-06-13
 PLANS APPROVAL DATE

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MECHANICAL ABBREVIATIONS:

NOTE: CEILING REGISTERS AND DIFFUSERS ARE IDENTIFIED BY DUCT CONNECTION NECK SIZE

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN	BY Jack Wheeler	CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	KEARNY MESA MATERIALS LAB MECHANICAL LEGEND	SHEET
DETAILS	BY Rudy Sarte	CHECKED Jack Wheeler		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	57M5506		SHEET M-0 OF
QUANTITIES	BY Jack Wheeler	CHECKED Seve Gutierrez		PROJECT NUMBER & PHASE 11000003451	POST MILE -		

DS OSD 2139A (4/89) FILE => 56_m_0.dgn ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT 3615 PROJECT NUMBER & PHASE 11000003451 DISREGARD PRINTS BEARING EARLIER REVISION DATES 12-12-08 11-28-11 12-4-12

DATE PLOTTED => 17-JUN-2013 TIME PLOTTED => 09:38

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECTS	SHEET NO.	TOTAL SHEETS
11	SD	5506		58	78

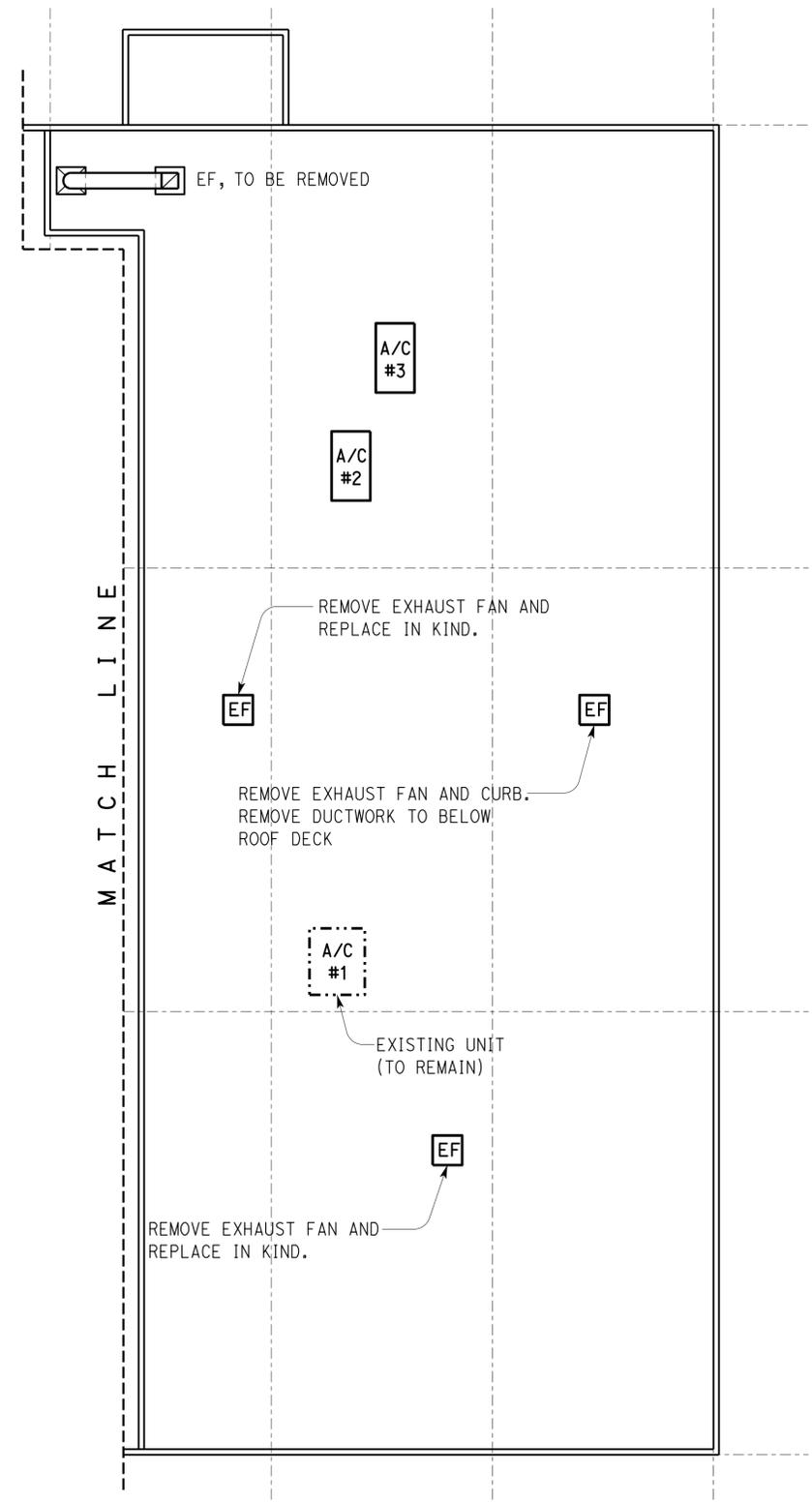
 12-04-12
 REGISTERED ENGINEER-MECHANICAL



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 Reviewed by: 
 FRANCIS SOLICH
 Approval date: 03-26-2013
 CSFM No. 01-37-11-0062



Notes:

1. Remove A/C Units #2 and #3.
2. Remove all roof mounted duct works connecting to A/C #2 and #3.

PARTIAL PLAN

SCALE: 1/8" = 1'-0"

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DS OSD 2139A (4/89) FILE NO.:	DESIGN BY Jack Wheeler CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 57M5506	KEARNY MESA MATERIALS LAB EXISTING ROOF PARTIAL PLAN NO. 2	SHEET M-2
	DETAILS BY Rudy Sarte CHECKED Jack Wheeler			POST MILE -		
	QUANTITIES BY Jack Wheeler CHECKED Seve Gutierrez			UNIT PROJECT NUMBER & PHASE 3615 11000003451		
FILE => 58_m_2.dgn DATE PLOTTED => 17-JUN-2013 TIME PLOTTED => 09:38	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF		

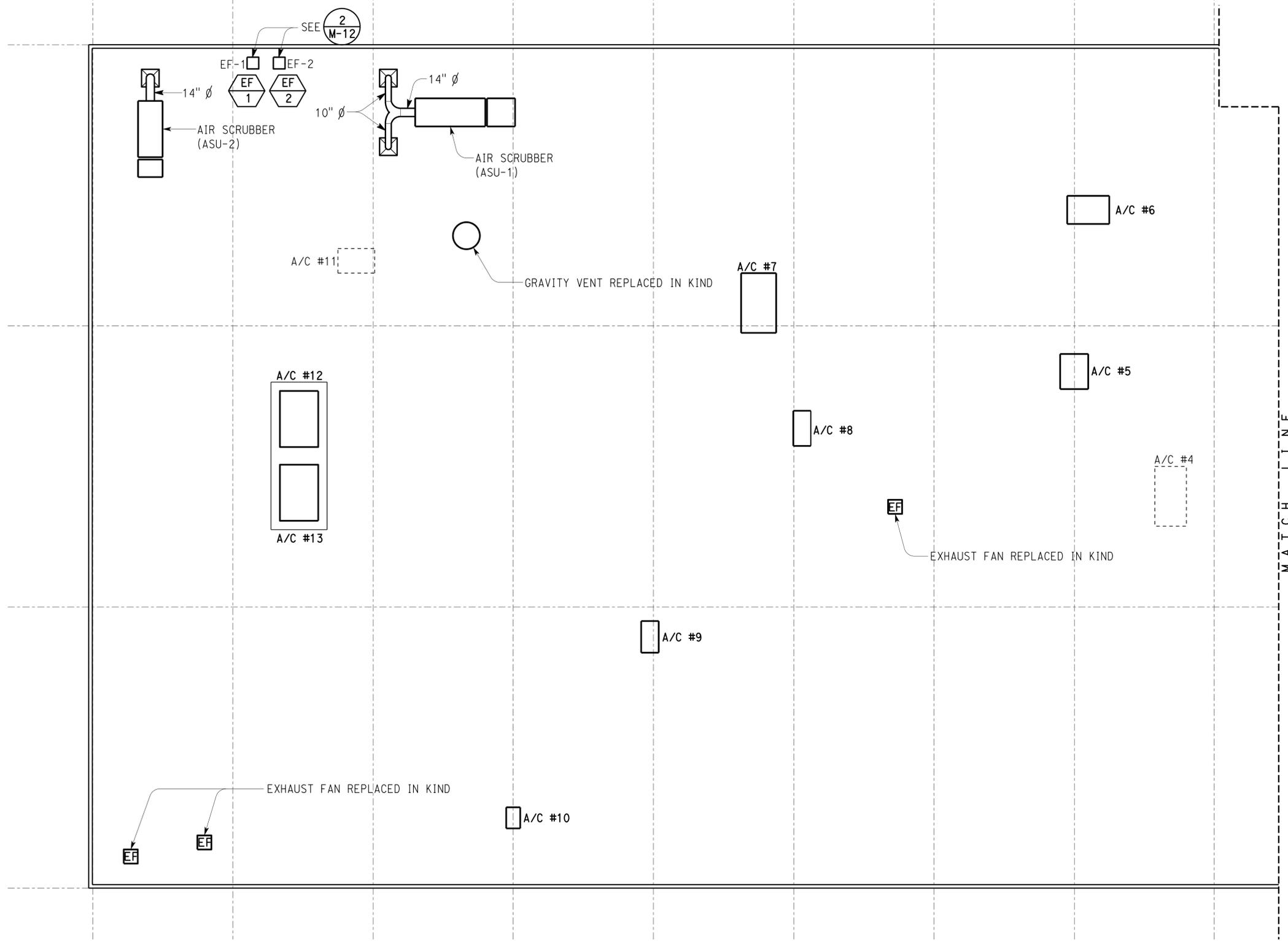
USERNAME => s127400 DATE PLOTTED => 17-JUN-2013 TIME PLOTTED => 09:38

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECTS	SHEET NO.	TOTAL SHEETS
11	SD	5506		59	78

REGISTERED ENGINEER-MECHANICAL
 12-04-12
 No. M21648
 Exp. 6-30-15
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 Reviewed by: FRANCIS SOLICH
 Approval date: 03-26-2013
 CSFM No. 01-37-11-0062



- Notes:
1. Reconnect Gas Line to all replaced units.
 2. Connect the new Supply and Return Ducts to existing Supply and Return Ducts under the roof.
 3. For equipment schedule, see M-11.
 4. Mount Air Scrubber on 4"x6" Red Wood blocks, securely epoxied to the roof and guy wired to roof parapet walls.
 5. Clean out condensate drain lines for all A/Cs.

PARTIAL PLAN
 SCALE: 1/8" = 1'-0"

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY Jack Wheeler CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 57M5506	KEARNY MESA MATERIALS LAB	SHEET M-3	
			POST MILE			MODIFIED ROOF PARTIAL PLAN NO. 1
DETAILS BY Rudy Sarte CHECKED Jack Wheeler	UNIT PROJECT NUMBER & PHASE 3615 11000003451 EA 28701	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF
QUANTITIES BY Jack Wheeler CHECKED Seve Gutierrez			12-12-08	11-28-11	12-4-12	

USERNAME => s127400 DATE PLOTTED => 17-JUN-2013 TIME PLOTTED => 09:38

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECTS	SHEET NO.	TOTAL SHEETS
11	SD	5506		60	78

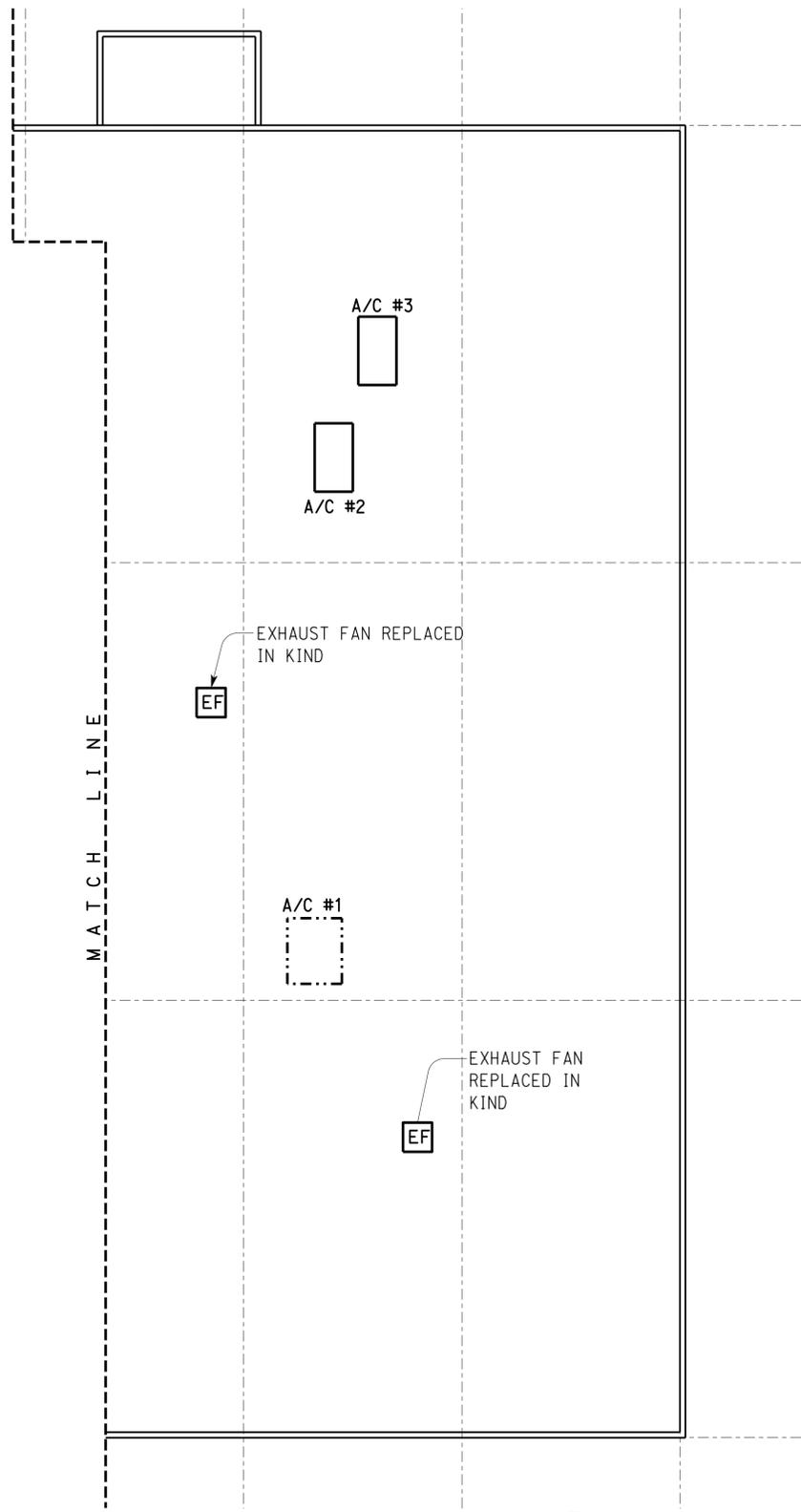
 12-04-12
 REGISTERED ENGINEER-MECHANICAL



05-06-13
 PLANS APPROVAL DATE

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CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: 
 FRANCIS SOLICH
 Approval date: 03-26-2013
 CSFM No. 01-37-11-0062



PARTIAL PLAN

SCALE: 1/8" = 1'-0"

Notes:

1. Reconnect Gas Line to replaced Units, A/C #2, #3.
2. Connect the new Supply and Return Ducts to existing Supply and Return Ducts under the roof, A/C #2, A/C #3.
3. Clean out condensate drain lines for all A/Cs.

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DS OSD 2139A (4/89) FILE NO.:	FILE => 60_m_4.dgn DATE PLOTTED => 17-JUN-2013 TIME PLOTTED => 09:38	DESIGN	BY Jack Wheeler	CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	KEARNY MESA MATERIALS LAB MODIFIED ROOF PARTIAL PLAN NO. 2	SHEET M-4
		DETAILS	BY Rudy Sarte	CHECKED Jack Wheeler		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	57M5506		
QUANTITIES	BY Jack Wheeler	CHECKED Seve Gutierrez	PROJECT NUMBER & PHASE	11000003451		POST MILE	-	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	UNIT 3615		DISREGARD PRINTS BEARING EARLIER REVISION DATES		12-12-08 11-28-11 12-4-12

USERNAME => s127400 DATE PLOTTED => 17-JUN-2013 TIME PLOTTED => 09:38

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECTS	SHEET NO.	TOTAL SHEETS
11	SD	5506		61	78

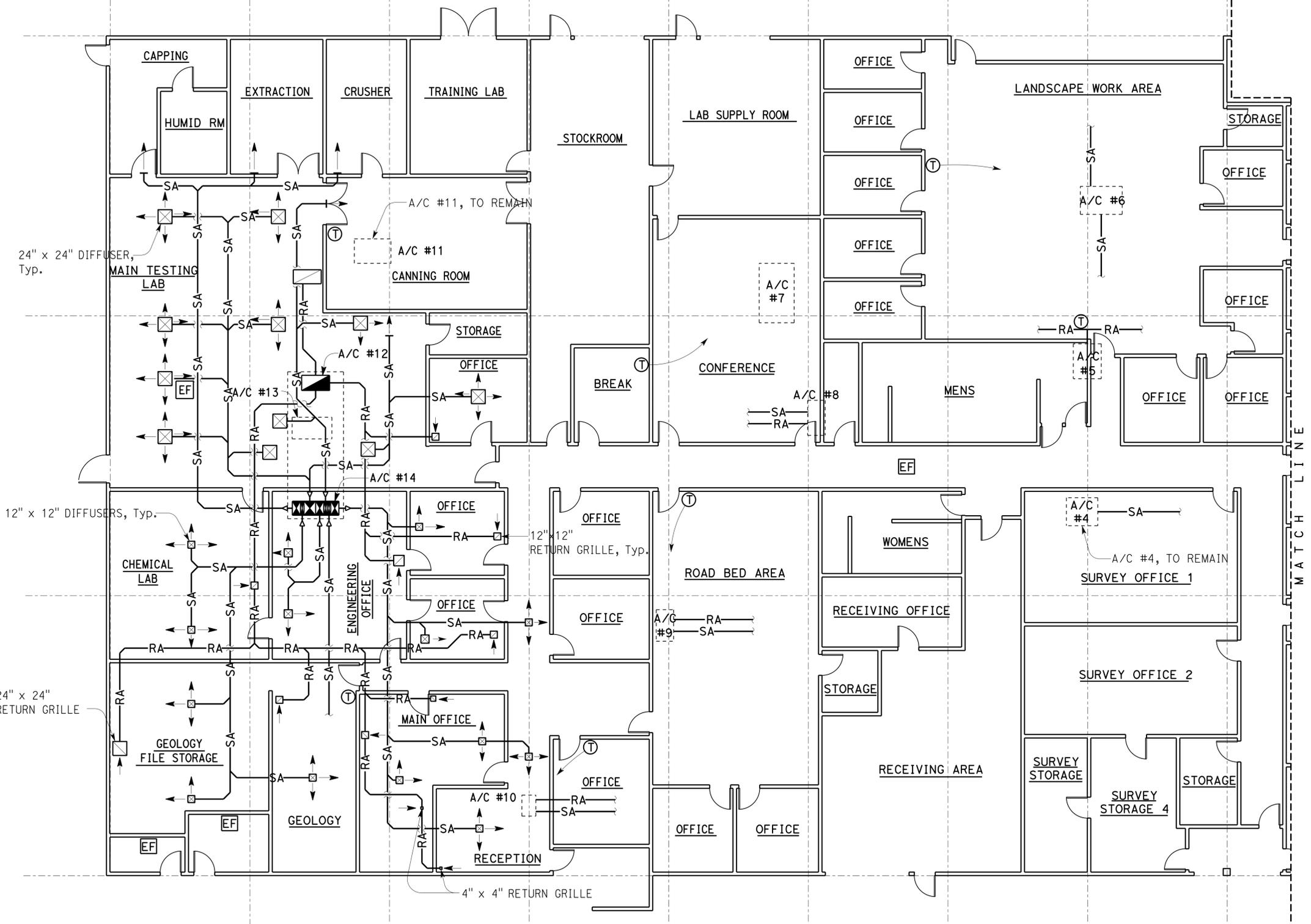
12-04-12
REGISTERED ENGINEER-MECHANICAL



05-06-13
PLANS APPROVAL DATE

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Approval date: 03-26-2013
CSFM No. 01-37-11-0062



- Notes:
1. Remove all duct work connecting to A/C# 12,13 and 14.
 2. Remove all Supply and Return Diffusers served by A/C# 12,13 and 14.
 3. Remove thermostats served by A/C# 12,13 and 14.
 4. All Exhaust Fans shown on this sheet to remain.

PARTIAL PLAN
SCALE: 1/8" = 1'-0"

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY Jack Wheeler CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 57M5506	KEARNY MESA MATERIALS LAB	SHEET M-5
			POST MILE -		
DETAILS BY Rudy Sarte CHECKED Jack Wheeler	UNIT PROJECT NUMBER & PHASE 3615 11000003451	EA 28701	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY Jack Wheeler CHECKED Seve Gutierrez			12-12-08	11-28-11	12-4-12

USERNAME => s127400 DATE PLOTTED => 17-JUN-2013 TIME PLOTTED => 09:38

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECTS	SHEET NO.	TOTAL SHEETS
11	SD	5506		62	78

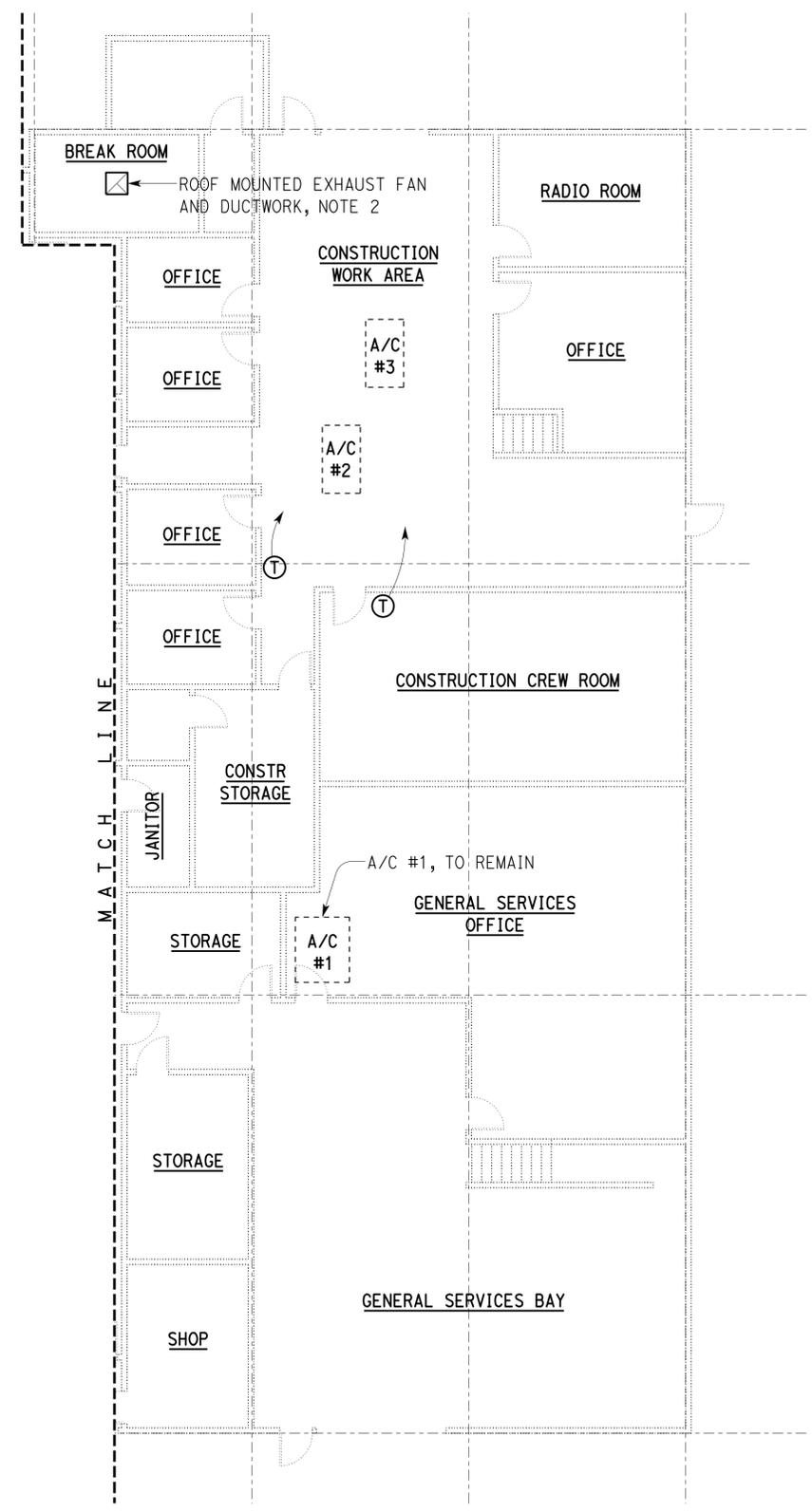
12-04-12
 REGISTERED ENGINEER-MECHANICAL



05-06-13
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 CSFM No. 01-37-11-0062



PARTIAL PLAN
 SCALE: 1/8" = 1'-0"

Notes:

1. Remove and replace thermostats serving A/C #2 and #3.
2. Remove Exhaust Fan, Ductwork and roof curbs. Patch roof to match existing as required.

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY Jack Wheeler CHECKED Seve Gutierrez	DETAILS BY Rudy Sarte CHECKED Jack Wheeler	QUANTITIES BY Jack Wheeler CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 57M5506	KEARNY MESA MATERIALS LAB	SHEET M-6
					POST MILE -		
DS OSD 2139A (4/89) FILE NO.:		FILE => 62_m_6.dgn DATE PLOTTED => 17-JUN-2013	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3615 11000003451 EA 28701	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 12-12-08 11-28-11 12-4-12	SHEET OF

USERNAME => s127400 DATE PLOTTED => 17-JUN-2013 TIME PLOTTED => 09:38

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECTS	SHEET NO.	TOTAL SHEETS
11	SD	5506		63	78

12-04-12
REGISTERED ENGINEER-MECHANICAL

JACK WHEELER
No. M21648
Exp. 6-30-15
MECH
STATE OF CALIFORNIA

05-06-13
PLANS APPROVAL DATE

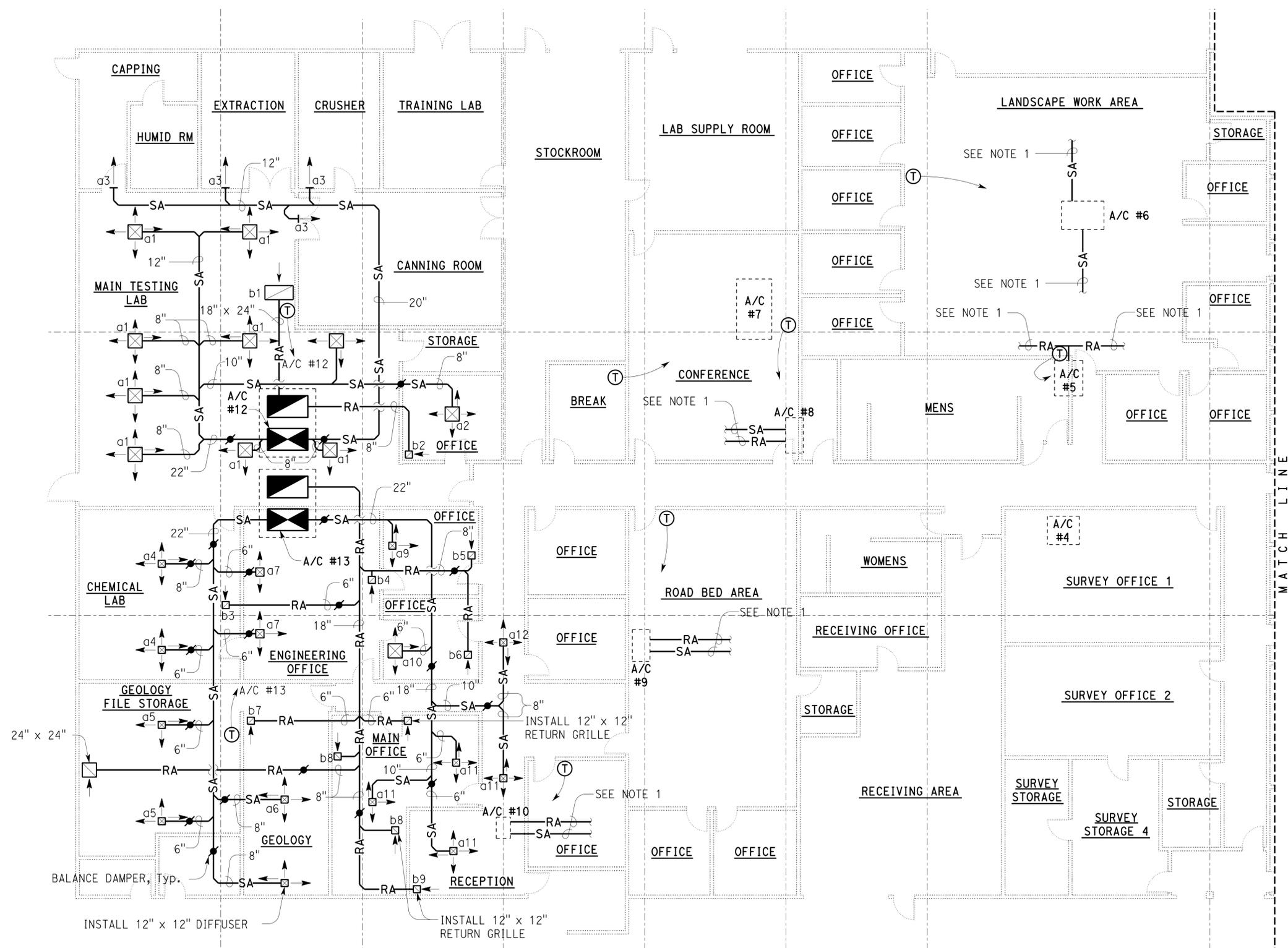
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Reviewed by: *Francis Solich*
FRANCIS SOLICH
Approval date: 03-26-2013
CSFM No. 01-37-11-0062

- Notes:
1. Connect the New Supply and Return Ducts from A/C Units #5, 6, 7, 8, 9 and 10 to existing Supply and Return Ducts under roof.
 2. Reconnect Gas Line to all replaced A/C Units.
 3. For Diffusers and Grilles sizes and CFM, see **M-11**.
 4. Remove and replace all thermostats.



PARTIAL PLAN

SCALE: 1/8" = 1'-0"

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN	BY Jack Wheeler	CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 57M5506	KEARNY MESA MATERIALS LAB REMODELED HVAC PARTIAL PLAN NO. 1	SHEET M-7
DETAILS	BY Rudy Sarte	CHECKED Jack Wheeler		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE -		REVISION DATES (PRELIMINARY STAGE ONLY)
QUANTITIES	BY Jack Wheeler	CHECKED Seve Gutierrez		UNIT PROJECT NUMBER & PHASE EA 28701	3615 11000003451	DISREGARD PRINTS BEARING EARLIER REVISION DATES	12-12-08 11-28-11 12-4-12

DS OSD 2139A (4/89) FILE => 63_m_7.dgn DATE PLOTTED => 17-JUN-2013 TIME PLOTTED => 09:38 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

USERNAME => s127400 DATE PLOTTED => 17-JUN-2013 TIME PLOTTED => 09:38

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECTS	SHEET NO.	TOTAL SHEETS
11	SD	5506		64	78

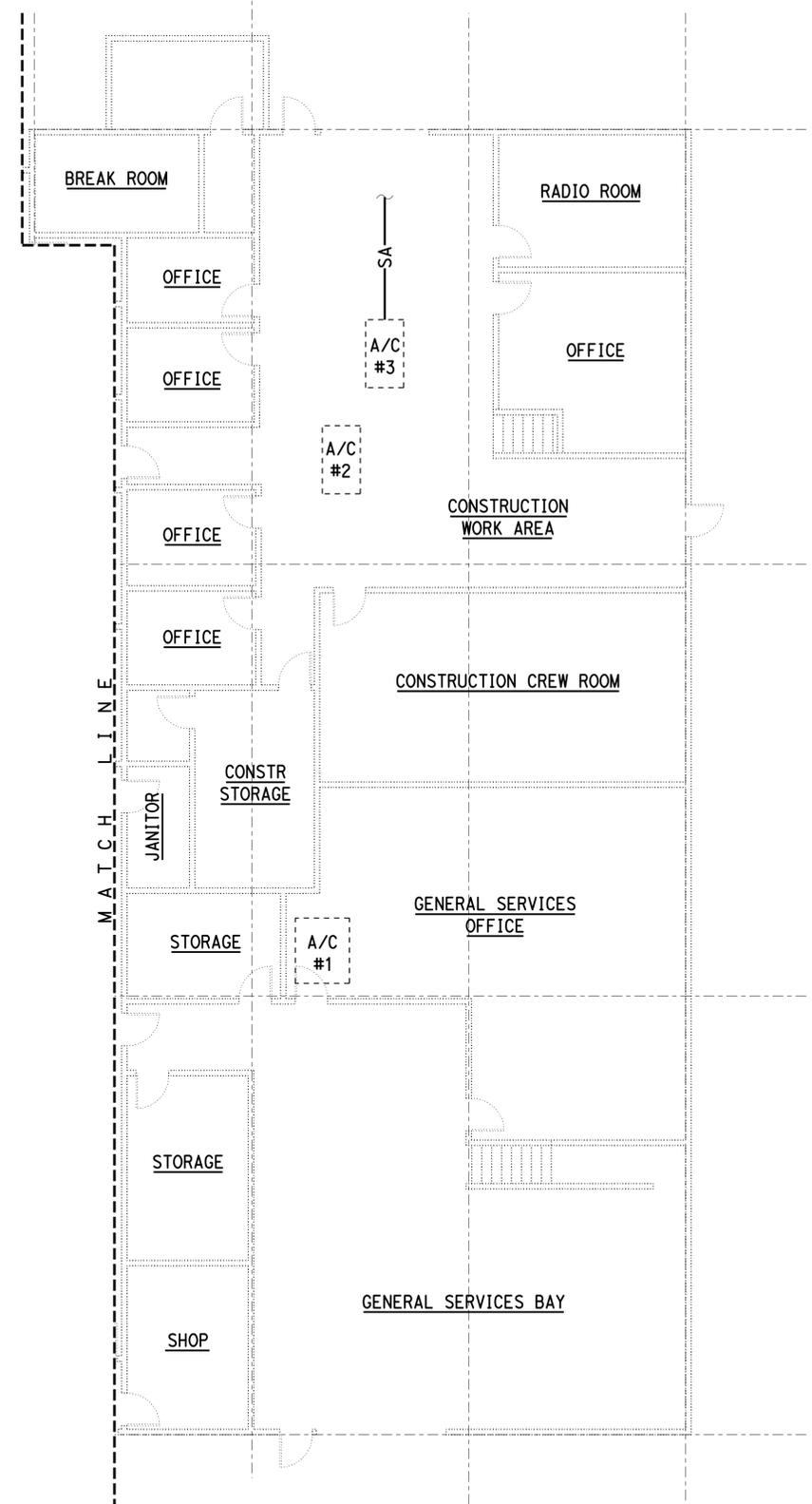
12-04-12
REGISTERED ENGINEER-MECHANICAL



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CSFM No. 01-37-11-0062



PARTIAL PLAN
SCALE: 1/8" = 1'-0"

Notes:

1. Connect the New Supply and Return Ducts from A/C Units #2 and #3 to existing Supply and Return Ducts under roof.
2. Reconnect Gas Line to replace A/C Units.

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY Jack Wheeler CHECKED Seve Gutierrez	DETAILS BY Rudy Sarte CHECKED Jack Wheeler	QUANTITIES BY Jack Wheeler CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 57M5506	KEARNY MESA MATERIALS LAB	SHEET M-8
					POST MILE -		
DS OSD 2139A (4/89) FILE NO.:		FILE => 64_m_8.dgn DATE PLOTTED => 17-JUN-2013	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3615 11000003451 EA 28701	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 12-12-08 11-28-11 12-4-12	SHEET OF

USERNAME => s127400 DATE PLOTTED => 17-JUN-2013 TIME PLOTTED => 09:38

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECTS	SHEET NO.	TOTAL SHEETS
11	SD	5506		65	78

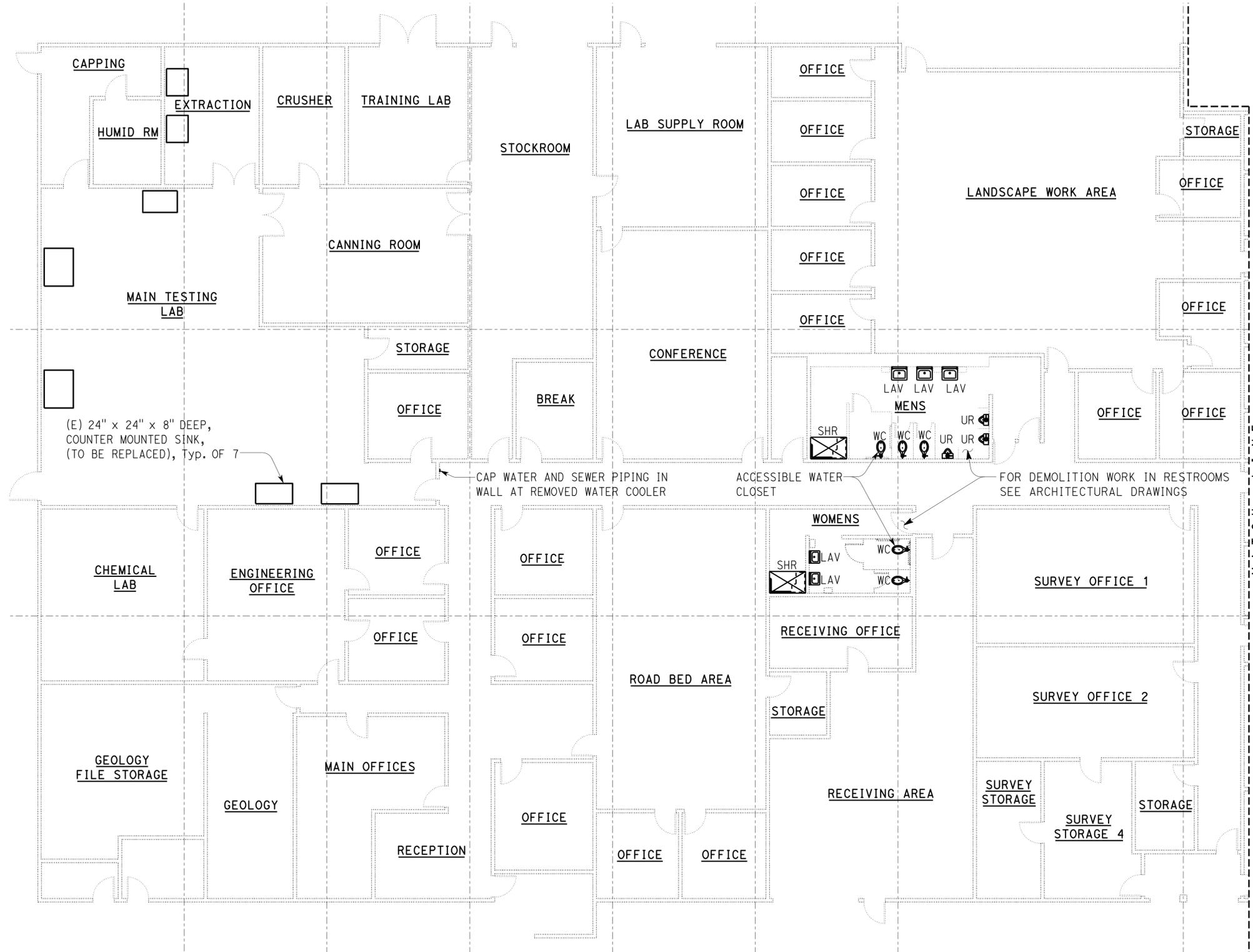
12-04-12
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- Notes:
1. Reconnect the replaced sink to existing waste line.
 2. Reconnect the replaced faucet and bubbler to existing hot and cold water lines.
 3. For exact location of sinks and restroom fixtures see Architectural drawings.
 4. Rework the hot and cold water piping in the wall to accommodate the new plumbing fixture locations in the restrooms. Provide stops and flex connections at all new plumbing fixtures
 5. Rework the sewer and vent piping below the floor to accommodate the new plumbing fixture locations in the restrooms.

PARTIAL PLAN
 SCALE: 1/8" = 1'-0"

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DS OSD 2139A (4/89) FILE NO.:	FILE => 65_m_9.dgn DATE PLOTTED => 17-JUN-2013 TIME PLOTTED => 09:38	DESIGN	BY Jack Wheeler	CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	57M5506	KEARNY MESA MATERIALS LAB PARTIAL PLUMBING PLAN	SHEET	M-9
		DETAILS	BY Rudy Sarte	CHECKED Jack Wheeler			POST MILE	-		OF	
QUANTITIES	BY Jack Wheeler	CHECKED Seve Gutierrez	UNIT PROJECT NUMBER & PHASE	3615 11000003451			EA 28701	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	12-12-08 11-28-11 12-4-12

USERNAME => s127400 DATE PLOTTED => 17-JUN-2013 TIME PLOTTED => 09:38

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECTS	SHEET NO.	TOTAL SHEETS
11	SD	5506		66	78

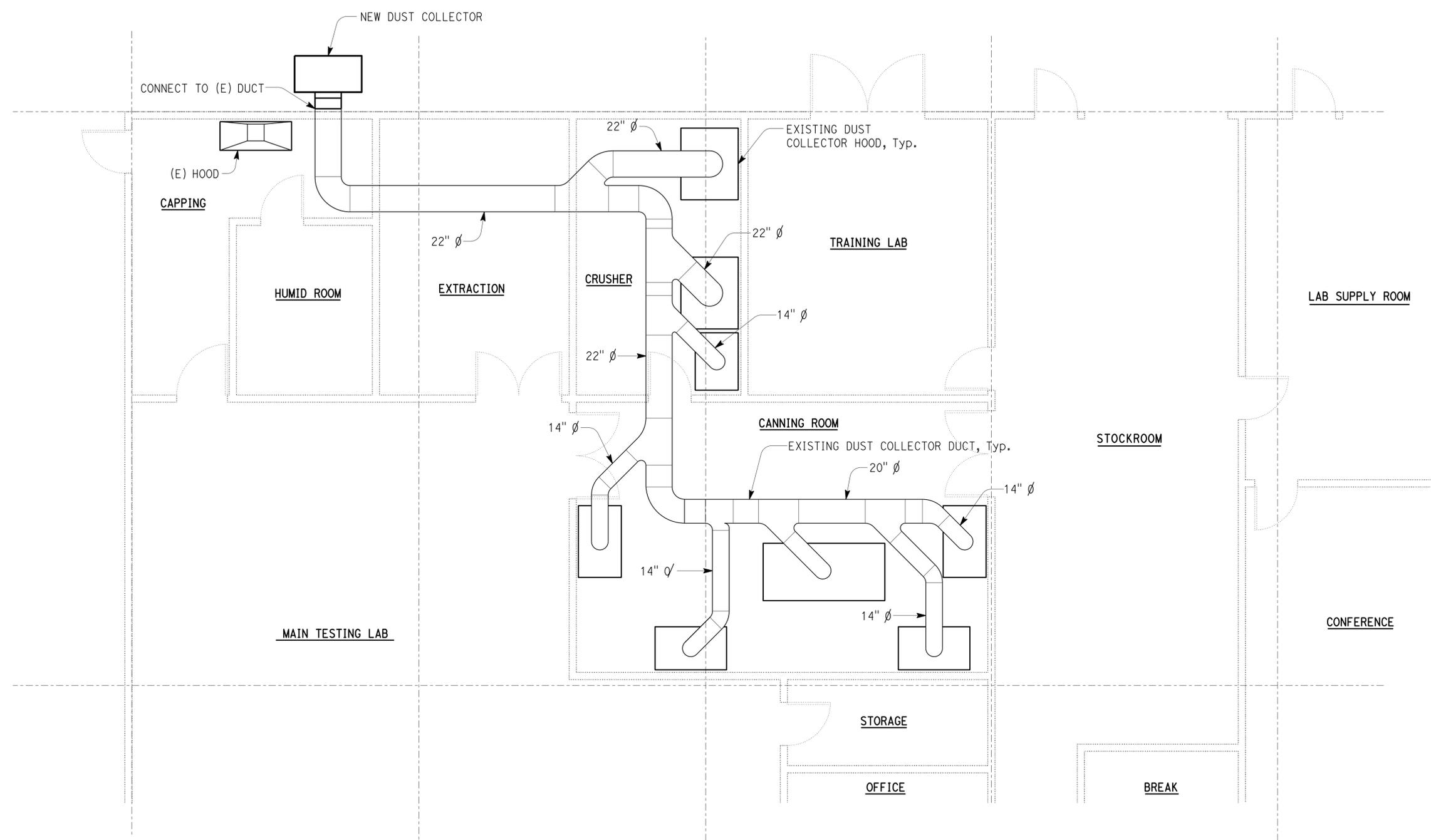
 12-04-12
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- Notes:
- All Dust Collector Hoods to remain.
 - All Dust Collector Ductwork inside the building to remain.
 - For Dust Collector capacity, see 

PARTIAL PLAN 
 SCALE: 1/4" = 1'-0"

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DS OSD 2139A (4/89) FILE NO.:	FILE => 66_m_10.dgn DATE PLOTTED => 17-JUN-2013 TIME PLOTTED => 09:39	DESIGN	BY Jack Wheeler	CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	57M5506	KEARNY MESA MATERIALS LAB DUST COLLECTION SYSTEM UPGRADE	SHEET M-10 OF
		DETAILS	BY Rudy Sarte	CHECKED Jack Wheeler			POST MILE	-		
QUANTITIES	BY Jack Wheeler	CHECKED Seve Gutierrez	UNIT PROJECT NUMBER & PHASE	3615 11000003451			EA 28701	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 12-12-08 11-28-11 12-4-12	

USERNAME => s127400 DATE PLOTTED => 17-JUN-2013 TIME PLOTTED => 09:39

ROOF MOUNTED A/C UNITS							
A/C UNITS #	NOMINAL TONAGE	CAPACITY BTUH	AIR FLOW CFM	GAS INPUT BTUH	EXTERNAL SP w.c.	ELECTRICAL VOLT/PH.	APPROXIMATE WEIGHT (lbs)
A/C-1	TO REMAIN	-	-	-	-	-	-
A/C-2	3	35800	1200	51000	0.5	208/3	775
A/C-3	3	29000	1200	51000	0.5	208/3	775
A/C-4	TO REMAIN	-	-	-	-	-	-
A/C-5	5	58500	2000	75000	0.5	460/3	920
A/C-6	7 1/2	88000	3000	150000	0.6	460/3	1200
A/C-7	5	58500	2000	150000	0.5	208/3	920
A/C-8	5	58500	2000	75000	0.5	240/1	920
A/C-9	3	29500	1100	51000	0.5	208/1	775
A/C-10	3	34000	1100	51000	0.5	208/1	775
A/C-11	TO REMAIN	-	-	-	-	-	-
A/C-12	7 1/2	88000	3000	150000	0.6	460/3	1200
A/C-13	7 1/2	88000	3000	150000	0.6	460/3	1200

AIR DEVICE SCHEDULE				
MARK	NOMINAL SIZE	CFM	NECK	REMARKS
a1	24 X 24	150	10"	SUPPLY DIFFUSER
a2	24 X 24	200	8"	SUPPLY DIFFUSER
a3	12 X 24	150	6"	SUPPLY DIFFUSER
a4	12 X 12	200	8"	SUPPLY DIFFUSER
a5	12 X 12	150	6"	SUPPLY DIFFUSER
a6	12 X 12	125	6"	SUPPLY DIFFUSER
a7	12 X 12	150	6"	SUPPLY DIFFUSER
a8	12 X 12	125	6"	SUPPLY DIFFUSER
a9	24 X 24	150	8"	SUPPLY DIFFUSER
a10	12 X 12	150	6"	SUPPLY DIFFUSER
a11	12 X 12	150	6"	SUPPLY DIFFUSER
b1	24 X 36	X	-	RETURN REGISTER
b2	12 X 12	X	6"	RETURN REGISTER
b3	12 X 12	X	6"	RETURN REGISTER
b4	12 X 12	X	6"	RETURN REGISTER
b5	12 X 12	X	6"	RETURN REGISTER
b6	12 X 12	X	6"	RETURN REGISTER
b7	12 X 12	X	6"	RETURN REGISTER
b8	12 X 12	X	6"	RETURN REGISTER
b9	12 X 12	X	6"	RETURN REGISTER

FAN SCHEDULE									
MARK NO.	AREA SERVED	CFM	S.P.	MIN. KW	MAX. RPM	TYPE DRIVE	STARTER	VOLT/PH.	TYPE
EF 1	EXTRACTION LAB	1000	0.3	0.60	1750	BELT	DIVISION 16	120/1	UP BLAST
EF 2	EXTRACTION LAB	1000	0.3	0.60	1750	BELT	DIVISION 16	120/1	UP BLAST

DUST COLLECTOR				
AIR FLOW CFM	POWER HP	ELECTRICAL VOLT/PH	SPEED RPM	REMARKS
8000	20	460/3	1800	DRY WEIGHT 7500 lbs

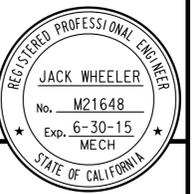
AIR SCRUBBER						
MARK NO.	AIR FLOW CFM	FAN MOTOR HP	ELECTRICAL VOLT/PH	SPEED RPM	REMARKS	APPROXIMATE WEIGHT
ASU-1	2000	3	208/3	1800	HORIZONTAL	400 lbs
ASU-2	1000	1.5	115/1	1800	HORIZONTAL	400 lbs

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECTS	SHEET NO.	TOTAL SHEETS
11	SD	5506		67	78

12-04-12
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05-06-13
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Approval date: 03-26-2013
CSFM No. 01-37-11-0062

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DESIGN	BY Jack Wheeler	CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	KEARNY MESA MATERIALS LAB	SHEET M-11
DETAILS	BY Rudy Sarte	CHECKED Jack Wheeler		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	57M5506		
QUANTITIES	BY Jack Wheeler	CHECKED Seve Gutierrez		POST MILE	-		
UNIT PROJECT NUMBER & PHASE	3615 11000003451	EA 28701	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	12-12-08 11-28-11 12-4-12	SHEET 67 OF 78	

DS OSD 2139A (4/89) FILE => 67_m_11.dgn DATE PLOTTED => 17-JUN-2013 TIME PLOTTED => 09:39 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

USERNAME => s127400 DATE PLOTTED => 17-JUN-2013 TIME PLOTTED => 09:39

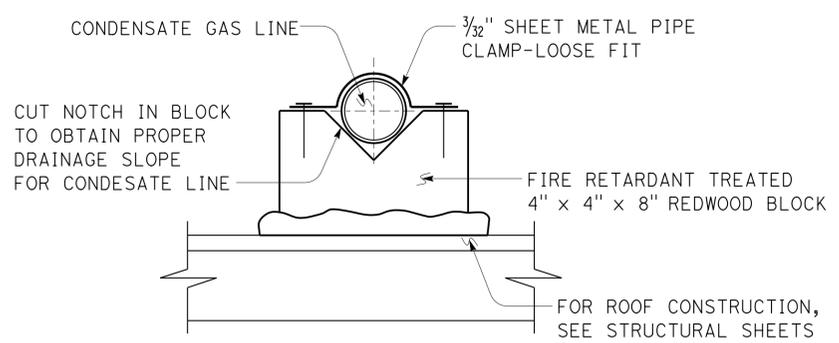
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECTS	SHEET NO.	TOTAL SHEETS
11	SD	5506		68	78

12-04-12
REGISTERED ENGINEER-MECHANICAL

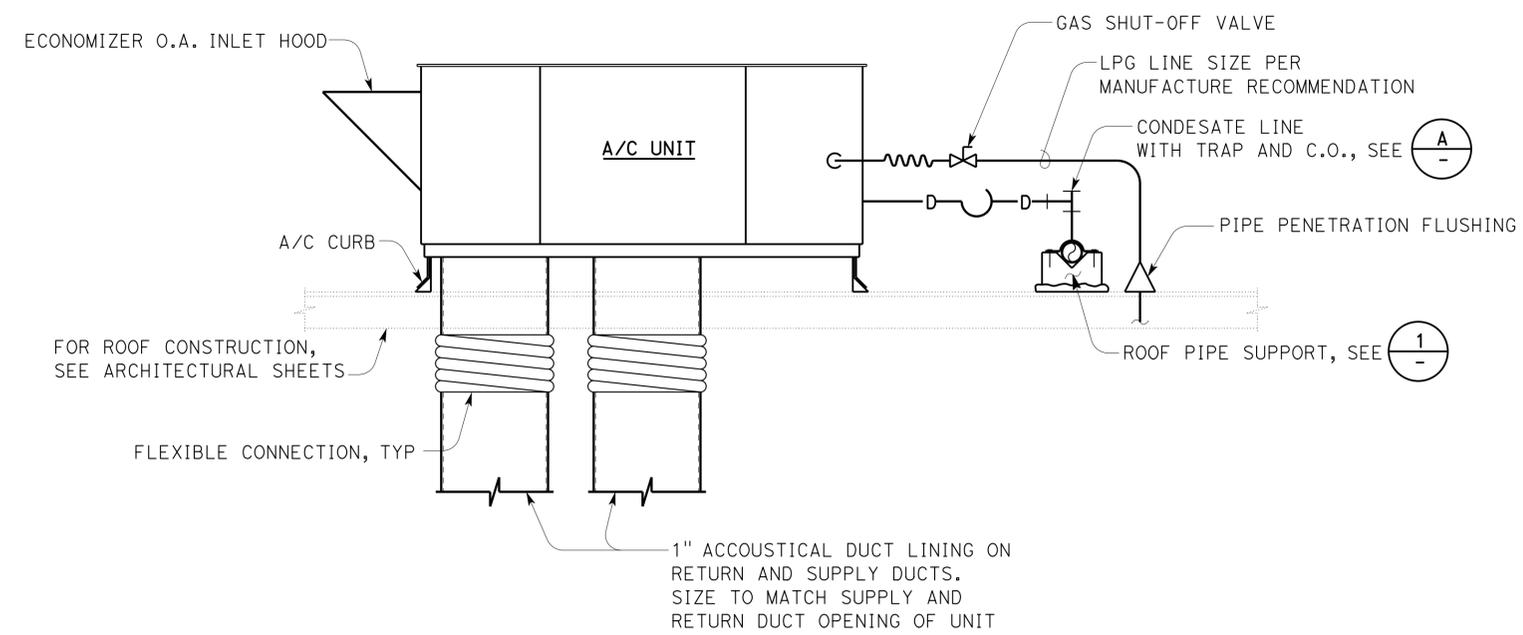
JACK WHEELER
No. M21648
Exp. 6-30-15
MECH
STATE OF CALIFORNIA

05-06-13
PLANS APPROVAL DATE

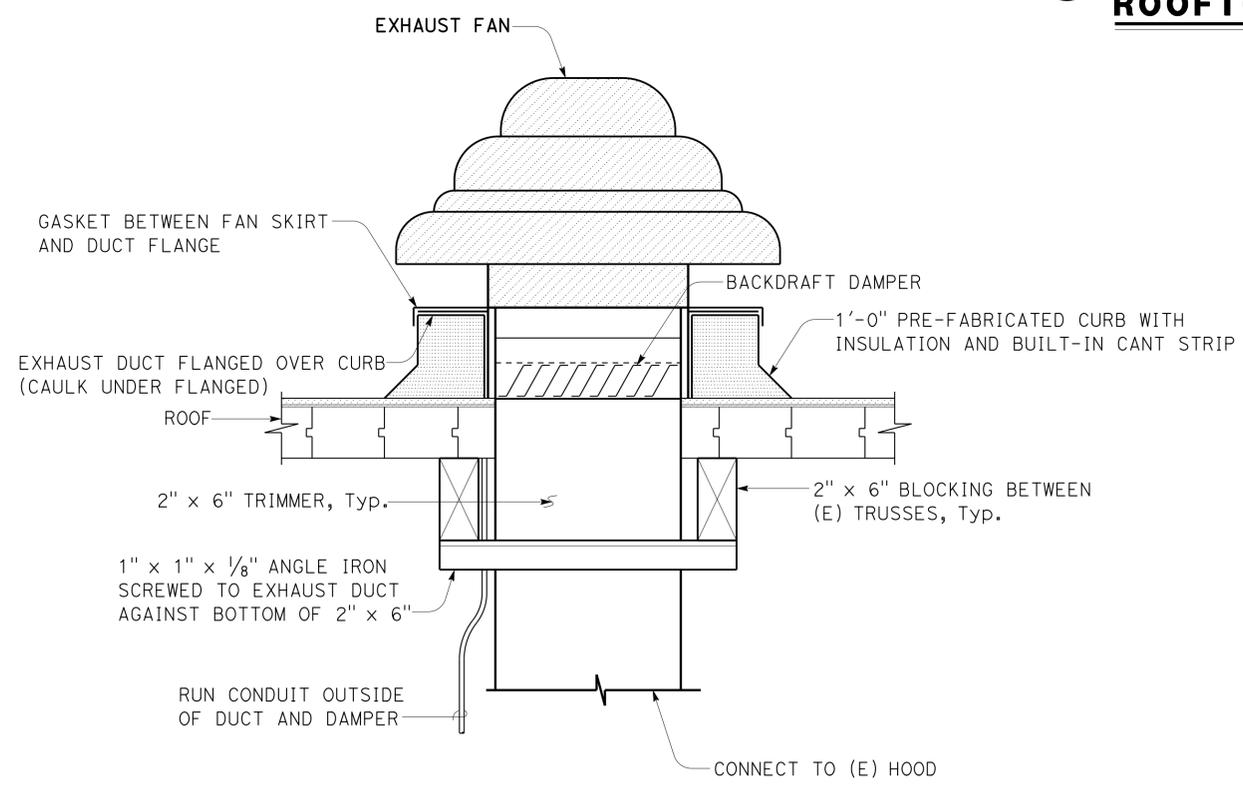
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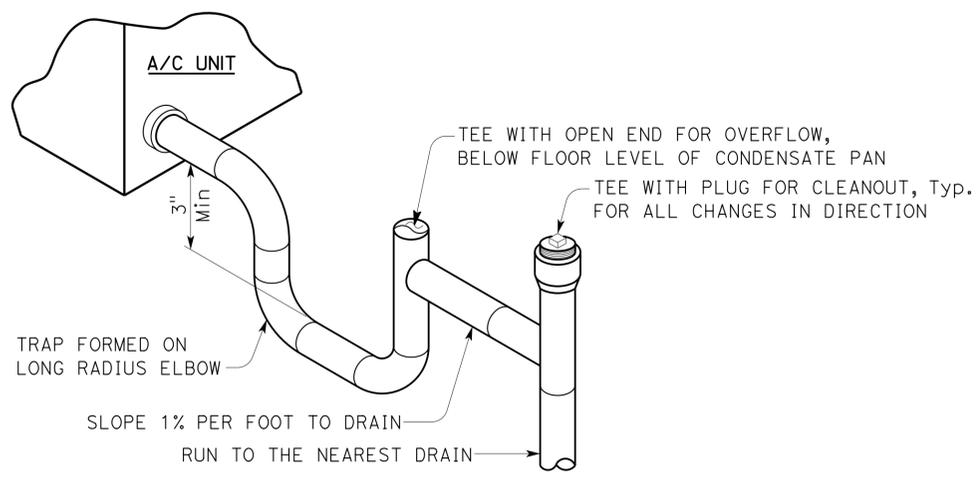
1 ROOF PIPE SUPPORT DETAIL



3 COMBINATION HEATING/COOLING ROOFTOP A/C UNIT - ELEVATION



2 EXHAUST FAN MOUNTING DETAIL



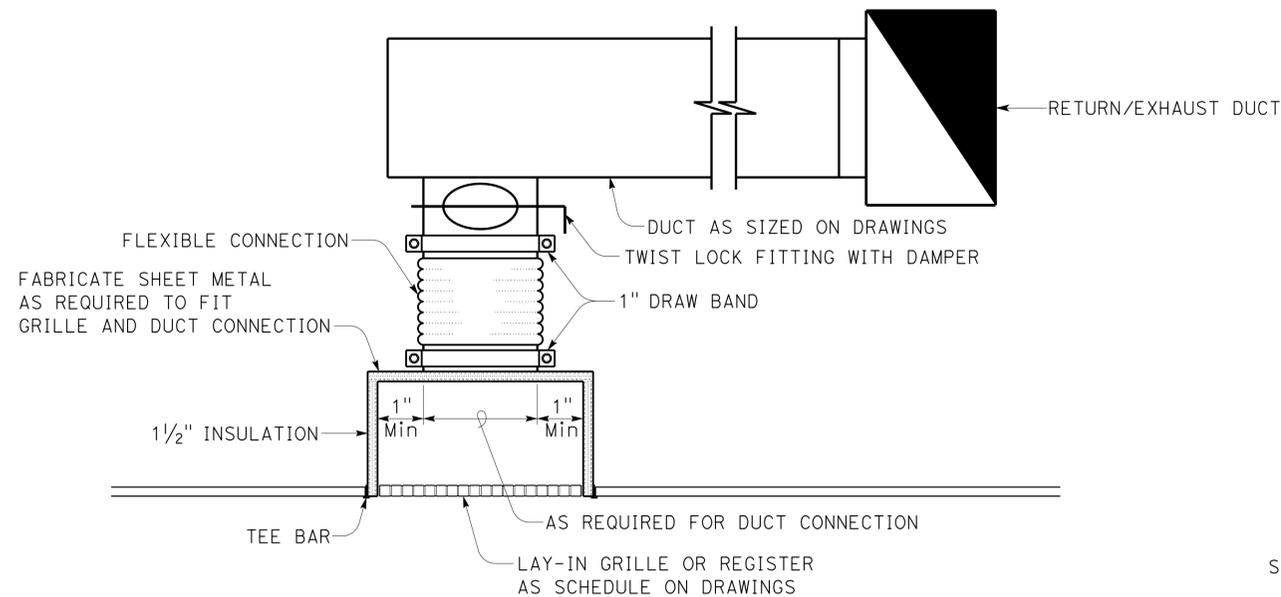
A CONDENSATE DRAIN DETAIL

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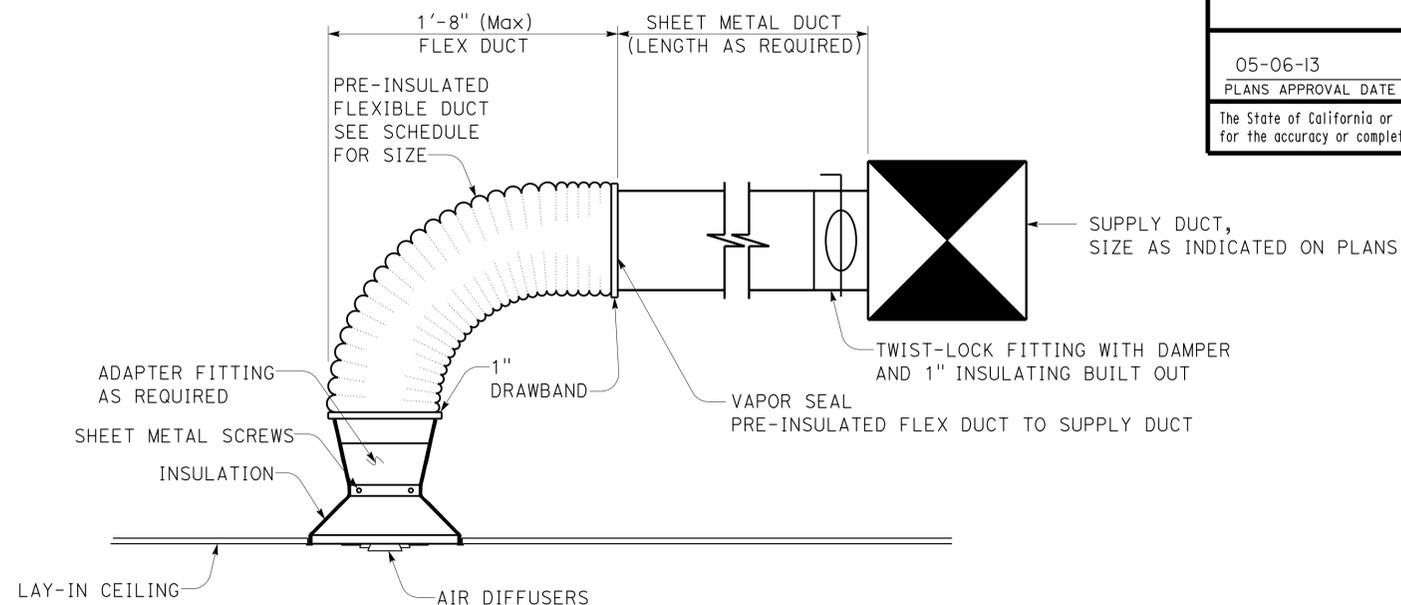
DESIGN	By Jack Wheeler	CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	KEARNY MESA MATERIALS LAB	SHEET M-12	
DETAILS	By Rudy Sarte	CHECKED Jack Wheeler		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	57M5506			
QUANTITIES	By Jack Wheeler	CHECKED Seve Gutierrez						
DS OSD 2139A (4/89)	FILE => 68_m_12.dgn	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT PROJECT NUMBER & PHASE	3615 11000003451	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
FILE NO.:	DATE PLOTTED => 17-JUN-2013	TIME PLOTTED => 09:39					12-12-08 11-28-11 12-4-12	6 1

USERNAME => s127400 DATE PLOTTED => 17-JUN-2013 TIME PLOTTED => 09:39

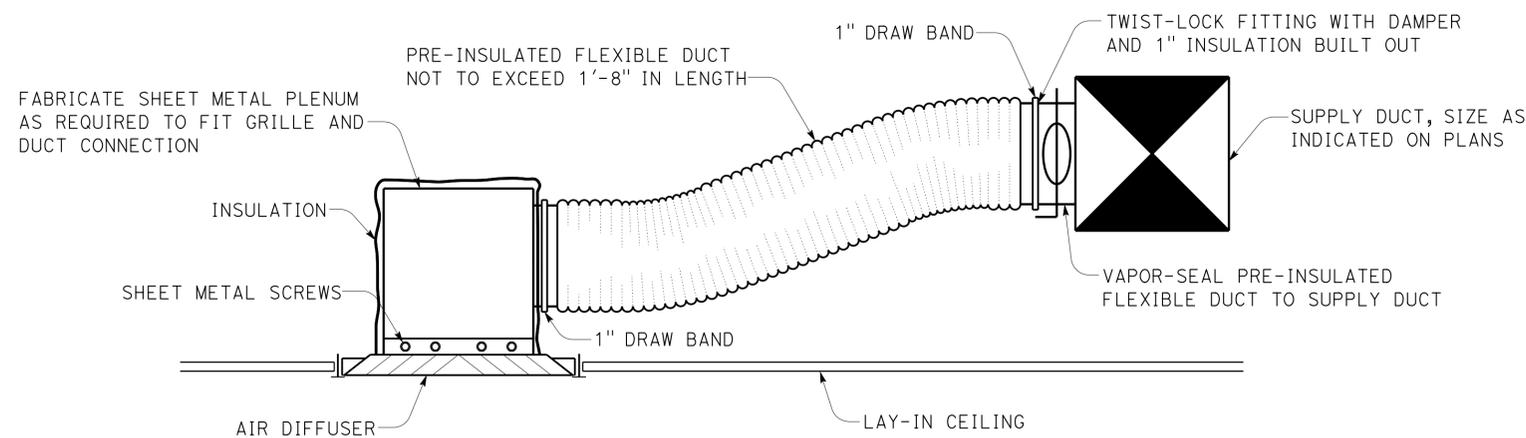
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECTS	SHEET NO.	TOTAL SHEETS
11	SD	5506		69	78
 REGISTERED ENGINEER-MECHANICAL 12-04-12					
05-06-13 PLANS APPROVAL DATE					
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4 LAY-IN RETURN AIR GRILLE



5 DIFFUSER INSTALLATION (LAY-IN)



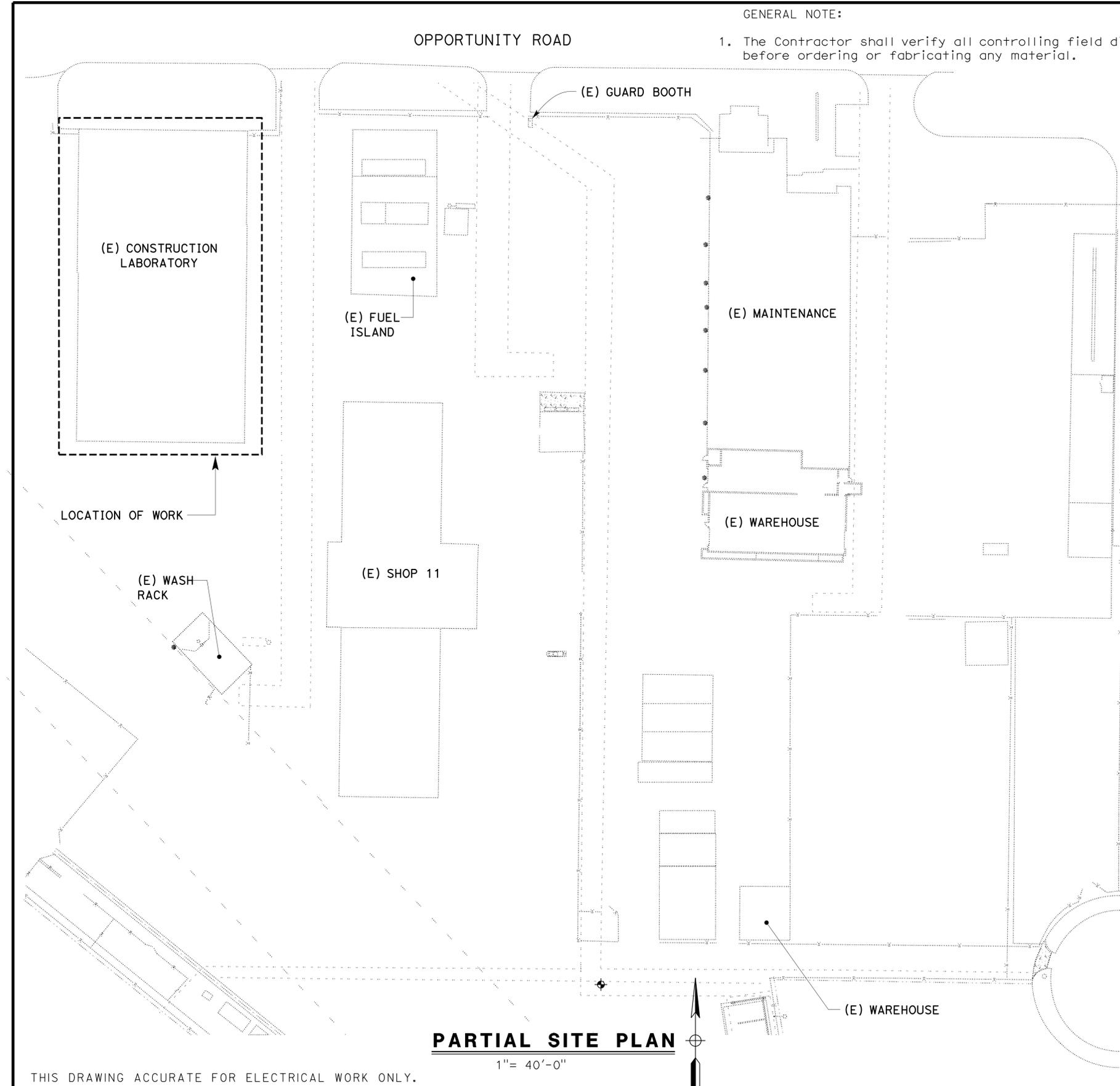
6 DIFFUSER INSTALLATION (LAY-IN)

NOTE:
MAXIMUM FLEXIBLE DUCT LENGTH : 6'-0".

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DS OSD 2139A (4/89) FILE NO.:	FILE => 69_m_13.dgn DATE PLOTTED => 17-JUN-2013 TIME PLOTTED => 09:39	DESIGN	BY Jack Wheeler	CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	KEARNY MESA MATERIALS LAB	SHEET M-13
		DETAILS	BY Rudy Sarte	CHECKED Jack Wheeler		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	57M5506		
QUANTITIES	BY Jack Wheeler	CHECKED Seve Gutierrez	UNIT PROJECT NUMBER & PHASE	3615 11000003451		POST MILE	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3			EA 28701	12-12-08 11-28-11 12-4-12

USERNAME => s127400 DATE PLOTTED => 17-JUN-2013 TIME PLOTTED => 09:39



GENERAL NOTE:

1. The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

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 Reviewed by: FRANCIS SOLICH
 Approval date: 03-26-2013
 CSFM No. 01-37-11-0062

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		70	78

Jagtar Dhalival 3-19-13
 REGISTERED ELECTRICAL ENGINEER DATE

05-06-13
 PLANS APPROVAL DATE

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LEGEND:

- J JUNCTION BOX
- (GFCI) WP DUPLEX RECEPTACLE OUTLET, WEATHERPROOF (WITH GFCI)
- ST MANUAL MOTOR STARTING SWITCH, THERMAL OVERLOAD TYPE
- T THERMOSTAT
- FLUSH-MOUNTED PANELBOARD AND CABINET
- SURFACE-MOUNTED PANELBOARD AND CABINET
- DISCONNECT SWITCH
- CONDUIT, EXPOSED
- CROSS-LINES INDICATE NUMBER OF #12 AWG CONDUCTORS. LONGER CROSS-LINE INDICATES 1#12 AWG (G) FOR EQUIPMENT GROUNDING CONDUCTOR. NO CROSS-LINE INDICATES 2#12 WITH 1#12 (G) UNLESS OTHERWISE NOTED. ALL CONDUIT 1/2" UNLESS OTHERWISE NOTED.
- A1, 2 HOMERUN TO PANELBOARD, ARROWS INDICATE NUMBER OF CIRCUITS, LETTER DENOTES PANELBOARD, NUMERAL DENOTES CIRCUIT
- SM SURFACE METAL RACEWAY
- (2) 1/2" C, PVC, 2#12 CONDUCTOR INFO (PER CONDUIT)
 CONDUIT TYPE
 CONDUIT SIZE
 NUMBER OF CONDUITS (NO NUMBER INDICATES ONE CONDUIT)
- MC CONDUIT, RIGID STEEL, UNDERGROUND
- CONDUIT, FLEXIBLE
- CONDUIT, TURN UP
- CONDUIT, TURN DOWN
- EXISTING FLUORESCENT FIXTURE - TO REMAIN
- EXISTING WALL MOUNTED THERMOSTAT - REMOVE
- E-E- EXISTING CONDUIT AND CONDUCTORS - TO REMAIN UNLESS OTHERWISE NOTED
- *-*-* EXISTING CONDUIT AND CONDUCTORS - REMOVE
- EXISTING JUNCTION BOX - TO REMAIN
- CIRCUIT BREAKER, SINGLE-POLE
- CIRCUIT BREAKER, THREE-POLE
- CONTACT, NORMALLY OPEN
- SWITCH, SINGLE-POLE
- FUSE
- TRANSFORMER WINDING
- GROUNDING ELECTRODE
- ENCLOSURE BOND
- PILOT LIGHT (A=AMBER, G=GREEN, R=RED)
- MOTOR

ABBREVIATIONS:

- A AMPERES
- AC ALTERNATING CURRENT
- A/C AIR CONDITIONING UNIT
- C CONDUIT
- CB CIRCUIT BREAKER
- CK+ CIRCUIT
- CT CONTROL TRANSFORMER
- DC DIRECT CURRENT
- (E) EXISTING
- F FUSE
- Flex FLEXIBLE CONDUIT
- G GROUND
- GFCI GROUND FAULT CIRCUIT INTERRUPTER
- LCD LIQUID CRYSTAL DISPLAY
- MCP MOTOR CIRCUIT PROTECTOR
- (N) NEW
- N NEUTRAL
- P POLE
- Typ TYPICAL
- V VOLTS
- VFD VARIABLE FREQUENCY DRIVE
- WP WEATHERPROOF
- Ø PHASE
- Y WYE
- Δ DELTA

PARTIAL SITE PLAN

1" = 40'-0"

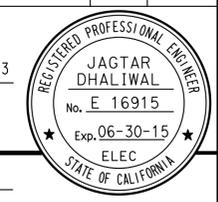
THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN SUPERVISOR <i>Paul Schreff</i> DESIGN ENGINEER <i>Mark Chapp</i>	DESIGN BY Baldev S. Dehal	CHECKED Jagtar Dhalival	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 57M5506	KEARNY MESA MATERIALS LAB PARTIAL ELECTRICAL SITE PLAN AND LEGEND	SHEET EE-1
	DETAILS BY Kathi Andreasen	CHECKED Baldev S. Dehal		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE		
	QUANTITIES BY Baldev S. Dehal	CHECKED Jagtar Dhalival		UNIT PROJECT NUMBER & PHASE 3597 11000003451	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

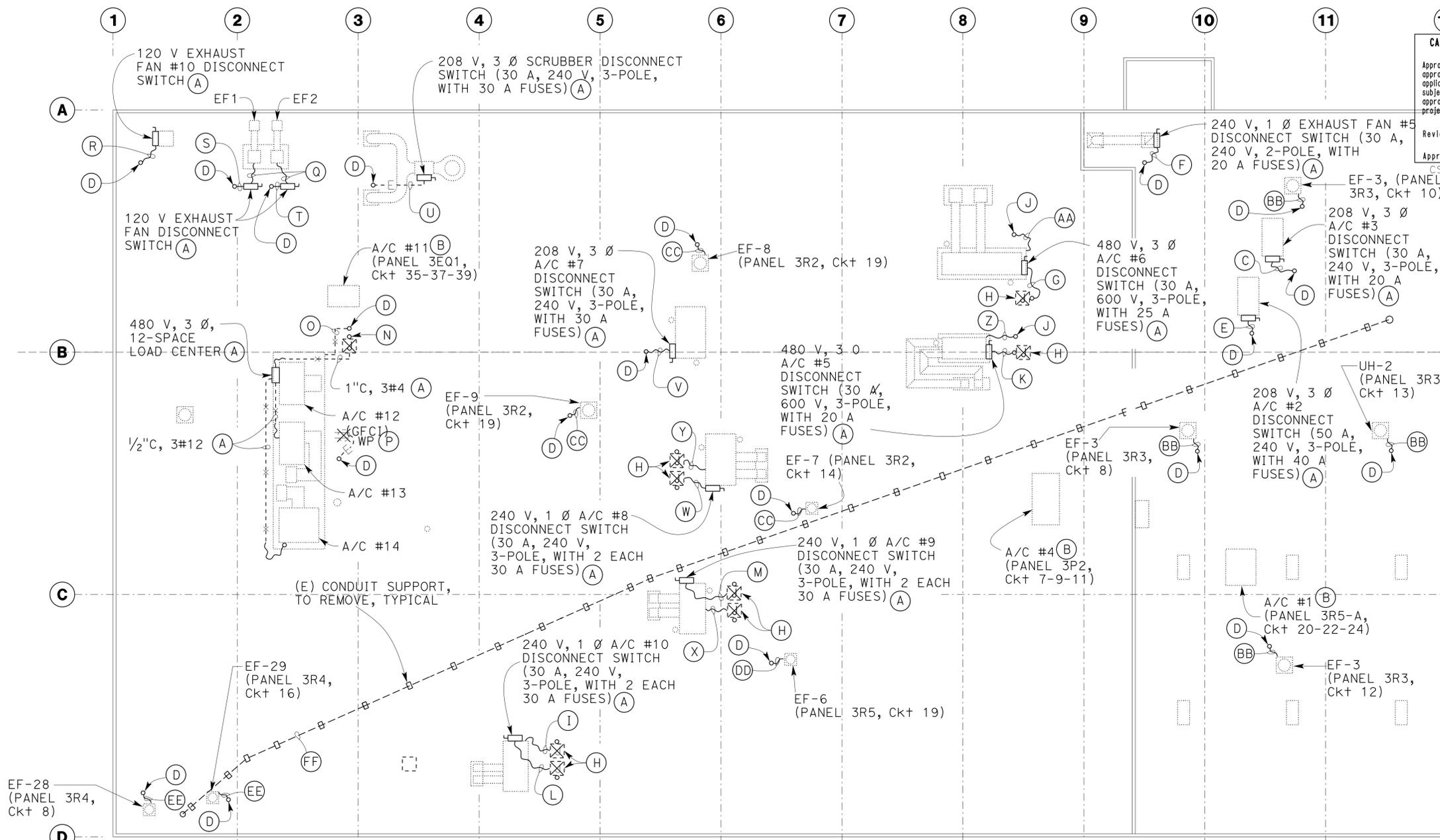
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		71	78

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Reviewed by: FRANCIS SOLICH
 Approval date: 03-26-2013
 CSFM No. 01-37-11-0062



05-06-13 PLANS APPROVAL DATE
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NOTES: Continued

- (M) 3/4" C, Flex, 2#8. Remove flexible conduit and wires from Panel 3R2 (Located in Hallway, Room 24), circuit breaker #16-18.
- (N) Remove cast metal junction box. 1 1/2" C, 3#4, down to Switchboard S3 in Room 26, 100 A/3P circuit breaker. Remove wires. Replace conduit flashing.
- (O) 1" C, 2#16 thermostat wires (Coiled), to MZ-1 Control Panel in Room 4-F. Remove wires. Install cap on the conduit.
- (P) Replace weatherproof junction box and GFCI receptacle.
- (Q) 1/2" C, Flex, 2#12. Remove flexible conduit and wires.
- (R) 3/4" C, Flex, 2#12. Remove flexible conduit and wires from wall switch in Room 4-B, circuit #3R1-4.
- (S) 1/2" C, 2#12. Remove wires from wall switch in Room 4-C, circuit number 3R1A-10.
- (T) 1/2" C, 2#12. Remove wires from wall switch in Room 4-C, circuit number 3R1A-8.
- (U) 1/2" C, 3#12, from Panel 3R1A (Located in Room 4-C), circuit 19-21-23. Remove wires, Conduit to remain. Extend conduit as shown on sheet EE-3.
- (V) 3/4" C, Flex, 3#12, 1#12G. Remove flexible conduit and wires from Panel 3R5-A (Located in Room 16), circuit breaker 19-21-23.
- (W) 3/4" C, Flex, 2#8. Remove flexible conduit and wires from Panel 3R2 (Located in Hallway, Room 24), circuit breaker #15-17.
- (X) 1/2" C, Flex, thermostat wires/cable. Remove flexible conduit and thermostat wires/cable down to west wall mounted thermostat in Room 11.
- (Y) 1/2" C, Flex, thermostat wires/cable. Remove flexible conduit and thermostat wires/cable down to south wall mounted thermostat in Room 12.
- (Z) 1/2" C, Flex, thermostat wires/cable. Remove flexible conduit and thermostat wires/cable down to east wall mounted thermostat in Room 15.
- (AA) 1/2" C, Flex, thermostat wires/cable. Remove flexible conduit and thermostat wires/cable down to wall mounted thermostat outside Room 15-C.
- (BB) 3/4" C, Flex, 2#12, 1#12G. Remove flexible conduit and wires from Panel 3R3 (Located in Hallway, Room 16-B).
- (CC) 3/4" C, Flex, 2#12, 1#12G. Remove flexible conduit and wires from Panel 3R2 (Located in Hallway).
- (DD) 3/4" C, Flex, 2#12, 1#12G. Remove flexible conduit and wires from Panel 3R2 (Located in Room-13).
- (EE) 3/4" C, Flex, 2#12, 1#12G. Remove flexible conduit and wires from Panel 3R4 (Located in Hallway, Room-10).
- (FF) 2" C, Rigid, 4#1, 1#6G. Remove conduit and conductors between Panel 3DP1 in Electrical Room and Panel 3R5-A in Room-16. Prior to conduit and conductors removal, install new 2" C and conductors, see EE-3 for details.

- GENERAL NOTES:
- The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.
 - For removal of mechanical equipment, see Mechanical Plans.
 - For room numbers, see sheet EE-8.
 - Other rooftop equipment not shown for clarity.

- NOTES:
- (A) Remove.
 - (B) To remain.
 - (C) 1/2" C, Flex, 3#12, 1#12G. Remove flexible conduit and wires from Panel 3R5-A (Located in Room 16), circuit breaker #25-27-29.
 - (D) Conduit down to Panelboard or switch. Replace conduit flashing.
 - (E) 3/4" C, Flex, 3#10, 1#12G. Remove flexible conduit and wires from Panel 3R5-A (Located in Room 16), circuit breaker #26-28-30.
 - (F) 1/2" C, Flex, 2#12, 1#12G. Remove flexible conduit and wires from Panel 3R3 (Located in Room 16-B), circuit breaker #26-28. Install cap on the conduit.

- NOTES: Continued
- (G) 3/4" C, Flex, 3#10. Remove flexible conduit and wires from Panel 3P2 (Located in Hallway, Room 24), circuit breaker #2-4-6.
 - (H) Remove cast metal junction box. Conduit down to Panelboard or thermostat to remain. Replace conduit flashing.
 - (I) 1/2" C, Flex, thermostat wires/cable. Remove flexible conduit and thermostat wires/cable down to thermostat on west wall in Room 10.
 - (J) Conduit down to thermostat. Replace conduit flashing.
 - (K) 3/4" C, Flex, 3#8. Remove flexible conduit and wires from Panel 3P2 (Located in Hallway, Room 24), circuit breaker #1-3-5.
 - (L) 3/4" C, Flex, 2#10. Remove flexible conduit and wires from Panel 3R4 (Located in Hallway, Room 25), circuit breaker #12-14.

PLAN
 1" = 10'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Baldev S. Dehal	CHECKED Jagtar Dhalial
DETAILS	BY Kathi Andreasen	CHECKED Baldev S. Dehal
QUANTITIES	BY Baldev S. Dehal	CHECKED Jagtar Dhalial

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	57M5506
POST MILE	

KEARNY MESA MATERIALS LAB
 EXISTING ROOF PLAN

SHEET **EE-2**

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT PROJECT NUMBER & PHASE 3597 11000003451

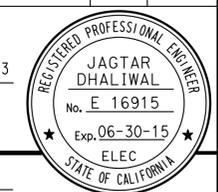
DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
	11/7/08 3/7/13 3/19/13 5/7/09 6/7/09 12/5/11 1/30/12 3/26/12 2/23/14	71 OF

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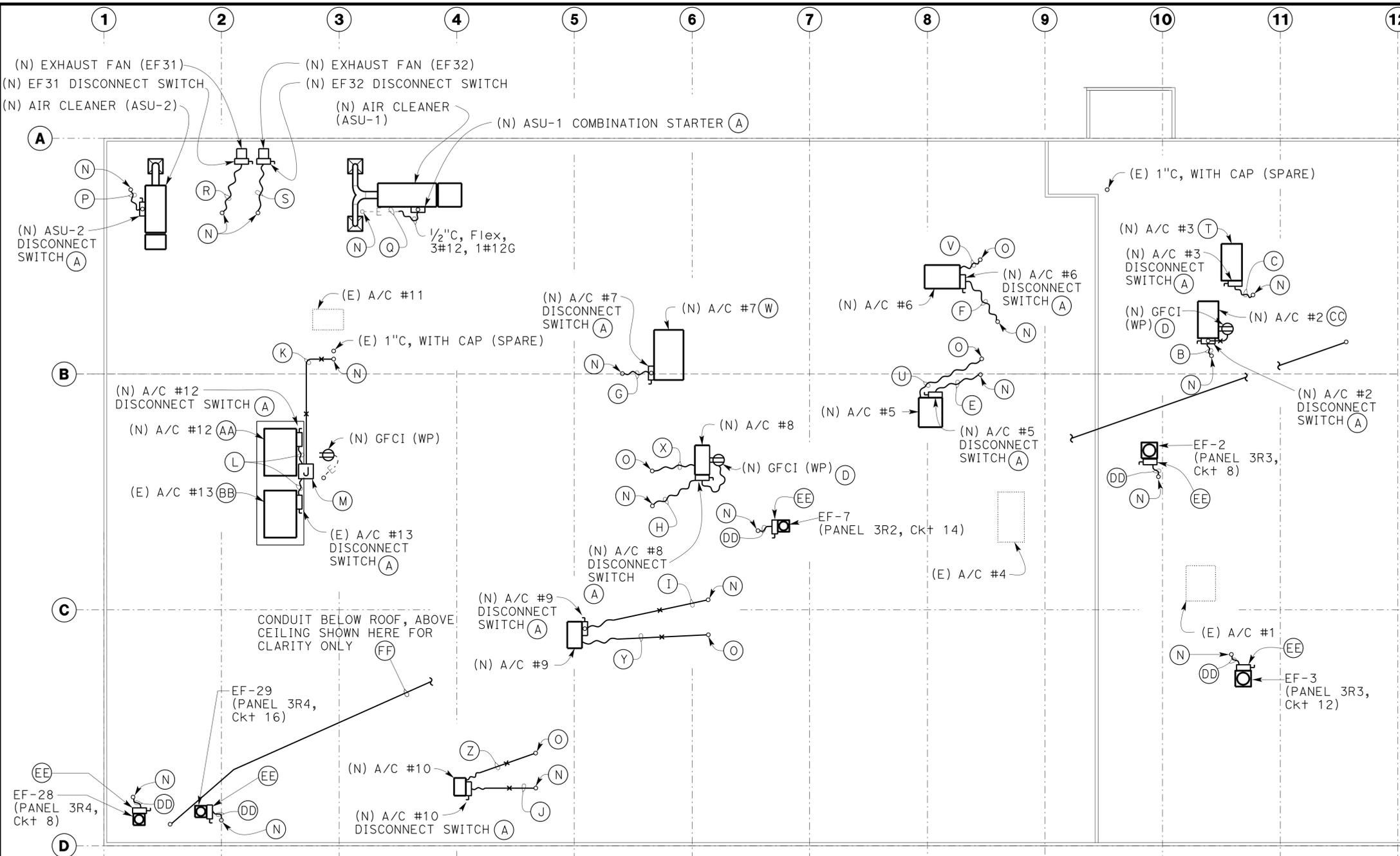
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		72	78

CALIFORNIA STATE FIRE MARSHAL
APPROVED
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *[Signature]*
FRANCIS SOLICH
Approval date: 03-26-2013
CSFM No. 01-37-11-0062



05-06-13
PLANS APPROVAL DATE
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PLAN
1" = 10'-0"

- NOTES: (Cont)
- (K) 1/2"C, 6#6, 1#10G. Install 6#6 and 1#10G from Switchboard S3 (Located in Room 26). Connect 3#6 to new 50-ampere, 3-pole circuit breaker for A/C #12, and other 3#6 to new 50-ampere, 3-pole circuit breaker for A/C #13.
 - (L) 3/4"C, Flex, 3#6, 1#10G.
 - (M) Install 8"x8"x6" weatherproof junction box on the side of the A/C unit.
 - (N) New conduit down to existing panelboard or switchboard. Install conductors as shown.
 - (O) Existing conduit down to new thermostat. Install thermostat cable to new thermostat. For thermostat location, see sheet EE-8.
 - (P) 3/4"C, Flex, 2#10 (Ckt 4), 1#12G. Install 2#10, 1#12G, from Panel 3R1 (Located in Room 4), through switch located in Room 4-B.
 - (Q) Existing 1/2"C. Install 3#12, 1#12G, from Panel 3R1A (Located in Room 4-C). Connect 3#12 to existing 20-ampere, 3-pole circuit breaker in space #19-21-23.
 - (R) 1/2"C, Flex, 2#10, 1#12G. Install 2#10 from Panel 3R1A (Located in Room 4-C), through switch S 31. Connect 2#10 to new 30-ampere, 1-pole circuit breaker in space #10.
 - (S) 1/2"C, Flex, 2#10, 1#12. Install 2#10 from Panel 3R1A (Located in Room 4-C) through switch Spp32. Connect 2#10 to new 30-ampere, 1-pole circuit breaker in space #8.
 - (T) Install thermostat cable with ducts to new thermostat on outside wall of Room 16-D.
 - (U) 1/2"C, Flex, with thermostat cable. Install thermostat cable from new thermostat on east wall in Room 15.
 - (V) 1/2"C, Flex, with thermostat cable. Install thermostat cable from new thermostat on east wall in Room 15-C.
 - (W) Install thermostat cable with ducts to new thermostat on north wall in Room 7.
 - (X) 1/2"C, Flex, with thermostat cable. Install thermostat cable from new thermostat on south wall in Room 12.
 - (Y) 1/2"C, with thermostat cable. Install thermostat cable from new thermostat on west wall in Room 11.
 - (Z) 1/2"C, with thermostat cable. Install thermostat cable from new thermostat on west wall in Room 10.
 - (AA) Install thermostat cable with ducts to new thermostat on north wall, in Room 4.
 - (BB) Install thermostat cable with ducts to new thermostat on north wall, in Room 2.
 - (CC) Install thermostat cable with ducts to new thermostat on west wall, in Room 16-K.
 - (DD) 3/4"C, Flex, 2#12, 1#12G.
 - (EE) New exhaust fan disconnect switch.
 - (FF) Install 2"C through rafters, 4#1, 1#6G between Panel 3DP1 and Panel 3R5-A.

- GENERAL NOTES:
- The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.
 - For A/C unit layout, see Mechanical plans.
 - For room numbers, see sheet EE-8.
 - All conduits shall be threaded rigid steel conduits.

- NOTES:
- (A) Mount on the side of unit supplied.
 - (B) 3/4"C, Flex, 3#8 (Ckt 26-28-30), 2#12 (Ckt 32), 1#10G. Install 3#8, 2#12, 1#10G, from Panel 3R5-A (Located in Room 16). Connect 3#8 to new 50-ampere, 3-pole circuit breaker in space #26-28-30, and 2#12 to new 20-ampere, 1-pole circuit breaker in space #32.
 - (C) 1/2"C, Flex, 3#8. Install 3#8 from Panel 3R5-A (Located in Room 16). Connect 3#8 to new 50-ampere, 3-pole circuit breaker in space #25-27-29.
 - (D) Mount servicing GFCI receptacle on the side of the A/C unit.
 - (E) 3/4"C, Flex, 3#10, 1#12G. Install 3#10, 1#12G, from Panel 3P2 (Located in Hallway, Room 24). Connect 3#10 to existing 30-ampere, 3-pole circuit breaker in space #1-3-5.

- (F) 3/4"C, Flex, 3#8, 1#10G. Install 3#8, 1#10G, from Panel 3P2 (Located in Hallway, Room 24). Connect 3#8 to existing 40-ampere, 3-pole circuit breaker in space #2-4-6.
- (G) 3/4"C, Flex, 3#6, 1#10G. Install 3#6, 1#10G, from Panel 3R5-A (Located in Room 16). Connect 3#6 to new 60-ampere, 3-pole circuit breaker in space #19-21-23.
- (H) 3/4"C, Flex, 2#6 (Ckt 15-17), 2#12 (Ckt 22), 1#10G. Install 2#6, 2#12, 1#10G, from Panel 3R2 (Located in Hallway, Room 24). Connect 2#6 to new 60-ampere, 2-pole circuit breaker in space #15-17 and 2#12 to existing spare 20-ampere, 1-pole circuit breaker.
- (I) 3/4"C, 2#8, 1#10G. Install 2#8, 1#10G, from Panel 3R2 (Located in Hallway, Room 24). Connect 2#8 to new 45-ampere, 2-pole circuit breaker in space #16-18.
- (J) 3/4"C, 2#8, 1#10G. Install 2#8, 1#10G, from Panel 3R4 (Located in Hallway, Room 25). Connect 2#8 to existing 50-ampere, 2-pole circuit breaker in space #12-14.

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.		DESIGN BY Baldev S. Dehal	CHECKED Jagtar Dhalwal	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 57M5506	KEARNY MESA MATERIALS LAB MODIFIED ROOF PLAN	SHEET EE-3	
		DETAILS BY Kathi Andreasen	CHECKED Baldev S. Dehal		PROJECT NUMBER & PHASE 3597 11000003451	POST MILE		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
		QUANTITIES BY Baldev S. Dehal	CHECKED Jagtar Dhalwal		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES		11/7/08 3/17/13 3/19/13 5/6/09 5/17/09 1/30/12 3/26/12 11/20/12 2/20/14	72_ee_03.dgn

GENERAL NOTE:

- The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

LEGEND: (This sheet only)

- S_h HOOD EXHAUST FAN SWITCH
- S_{hP} HOOD EXHAUST FAN SWITCH WITH PILOT LIGHT
- S_{DC} DUST COLLECTOR SWITCH
- S_D MOTORIZED DAMPER SWITCH WITH PILOT LIGHT, # DENOTES THE DAMPER MOTOR NUMBER

CALIFORNIA STATE FIRE MARSHAL
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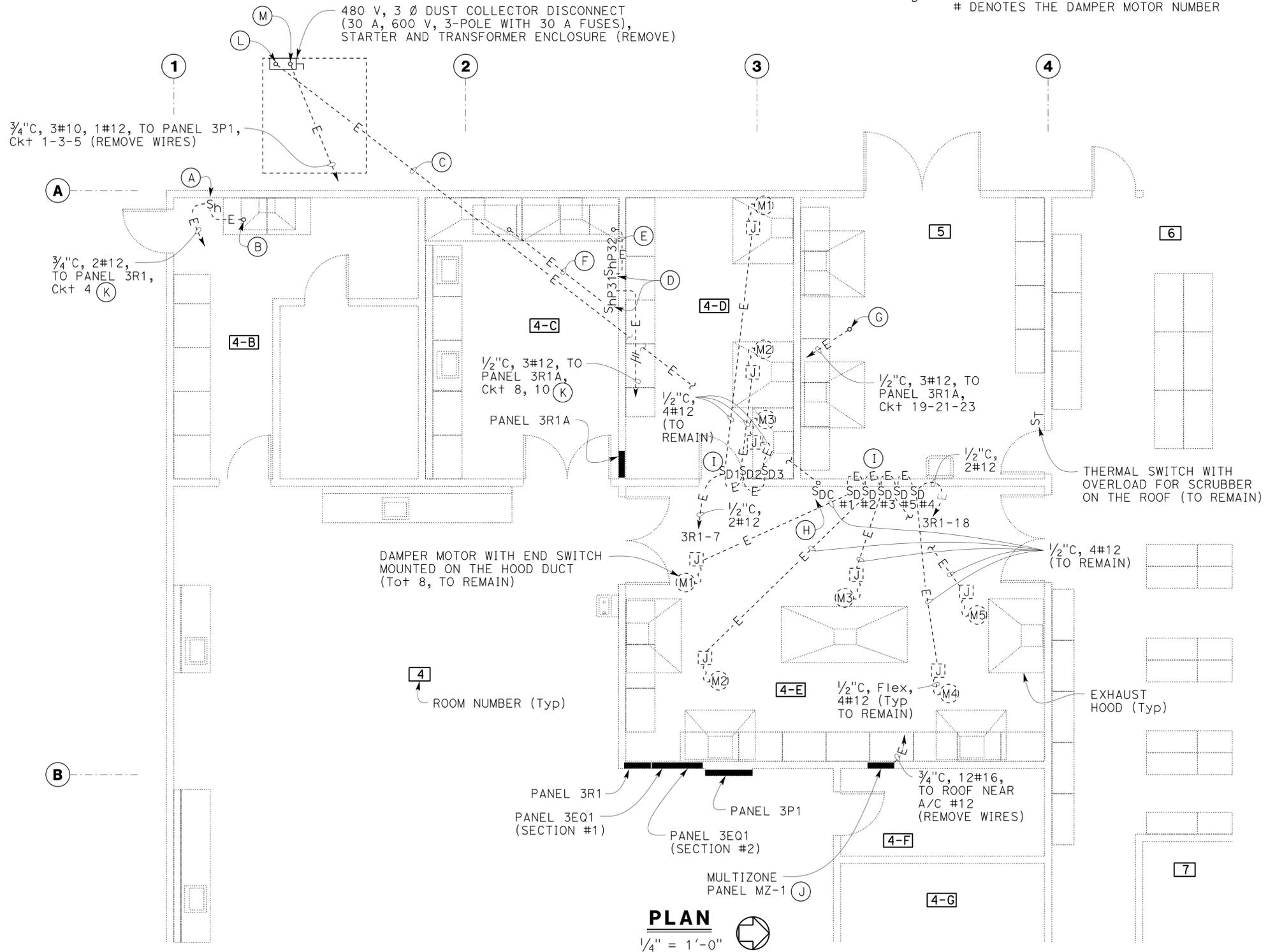
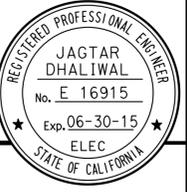
Reviewed by: *Francis Solich*
 FRANCIS SOLICH
 Approval date: 03-26-2013
 CSFM No. 01-37-11-0062

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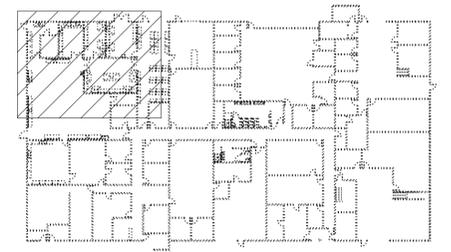
Jagtar Dhalial 3-19-13
 REGISTERED ELECTRICAL ENGINEER DATE

05-06-13
 PLANS APPROVAL DATE

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- NOTES:
- (A) Surface mounted hood exhaust fan switch. Remove switch and cover, outlet box to remain.
 - (B) 3/4" C, 2#12, to roof mounted exhaust fan #10, see sheet EE-2. Remove wires.
 - (C) 3/4" C, 3#12. Remove wires.
 - (D) Recessed hood exhaust fan switch with pilot light. Remove switch and cover, outlet to remain.
 - (E) 1/2" C, 2#12, to roof mounted exhaust fan #32, see sheet EE-2. Remove wires.
 - (F) 1/2" C, 2#12, to roof mounted exhaust fan #31, see sheet EE-2. Remove wires.
 - (G) 1/2" C, 3#12, to roof mounted scrubber, see sheet EE-2.
 - (H) Remove switch and cover, outlet to remain. Install blank cover plate.
 - (I) Recessed motorized damper switches with pilot light. Remove switches, pilot lights and covers, outlet to remain.
 - (J) Remove cover with toggle switches, outlet to remain. Install blank cover plate.
 - (K) Remove wires.
 - (L) Remove portion of conduit from enclosure to finish surface. Install cap.
 - (M) Modify conduit, as required, for connection to new dust collector control panel. See sheet EE-5.



KEY PLAN
 NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Baldev S. Dehal	CHECKED Jagtar Dhalial
DETAILS	BY Kathi Andreasen	CHECKED Baldev S. Dehal
QUANTITIES	BY Baldev S. Dehal	CHECKED Jagtar Dhalial

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 57M5506
 POST MILE

KEARNY MESA MATERIALS LAB
 EXISTING DUST COLLECTOR AND DAMPER MOTORS PLAN

SHEET EE-4

GENERAL NOTE:

- The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

LEGEND: (This sheet only)

- SaP NEW AIR CLEANER SWITCH WITH PILOT LIGHT
- ShP NEW HOOD EXHAUST FAN SWITCH WITH PILOT LIGHT
- SD NEW MOTORIZED DAMPER SWITCH WITH PILOT LIGHT, # DENOTES THE DAMPER MOTOR NUMBER

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 Reviewed by: FRANCIS SOLTICH
 Approval date: 03-26-2013
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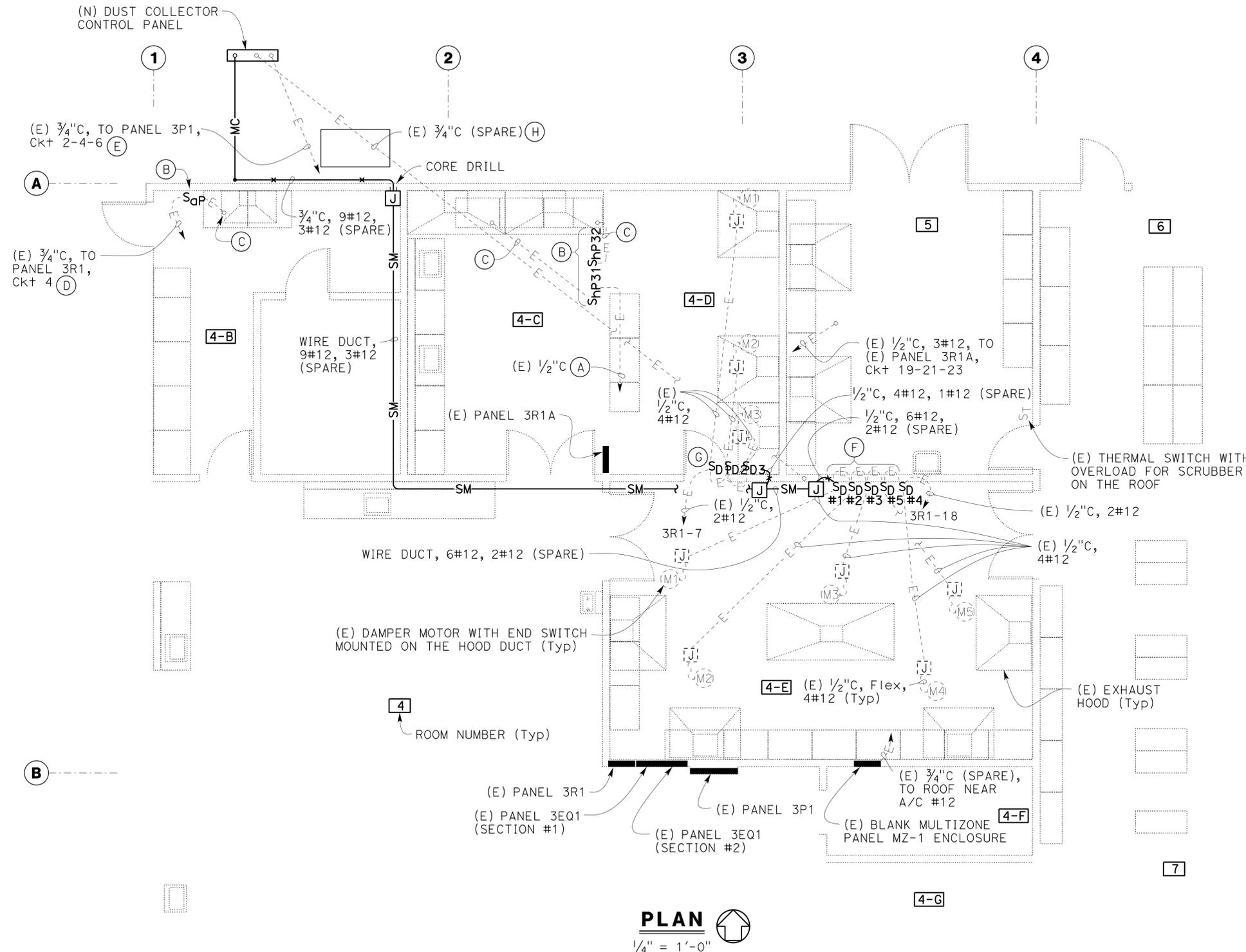
Jagtar Dhalial 3-19-13
 REGISTERED ELECTRICAL ENGINEER DATE

05-06-13
 PLANS APPROVAL DATE

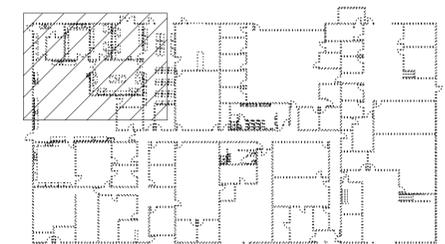
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NOTES:

- (A) Install 4#10, 1#12G, to Panel 3R1A. Connect 2#10 to new 30-ampere, 1-pole circuit breaker in space #8 for EF2, and 2#10 to new 30-ampere, 1-pole circuit breaker in space #10 for EF1.
- (B) Wire new switches with pilot light, and install new stainless steel cover plates.
- (C) Install 2#10, 1#12G, to new roof mounted exhaust fan disconnect switch. See sheet EE-3.
- (D) Install 2#10, 1#12, to Panel 3R1. Connect 2#10 to new 40-ampere, 1-pole circuit breaker in space #4, for air cleaner unit (ASU-2).
- (E) Install 3#8, 1#10G, to Panel 3P1. Connect 3#8 to new 60-ampere, 3-pole circuit breaker in space #2-4-6.
- (F) Wire new damper switches with pilot light as shown on sheet EE-6. Identify new and existing wires with wire numbers as shown on sheet EE-6. Install new stainless steel cover plates. Install nameplate above each switch with 1/8" lettering as follows:
 - i) HOOD No. 1
 - ii) HOOD No. 2
 - iii) HOOD No. 3
 - iv) HOOD No. 4
 - v) HOOD No. 5
- (G) Wire new damper switches with pilot light as shown on sheet EE-6. Identify new and existing wires with wire numbers as shown on sheet EE-6. Install new stainless steel cover plates. Install nameplate above each switch with 1/8" lettering as follows:
 - i) HOOD No. 1
 - ii) HOOD No. 2
 - iii) HOOD No. 3
- (H) The Contractor has the option to use this conduit in lieu of new wire duct, if field verified that conduit is not rusted out. Clean and install new wires.



PLAN
 1/4" = 1'-0"



KEY PLAN
 NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Baldev S. Dehal	CHECKED Jagtar Dhalial
DETAILS	BY Kathi Andreasen	CHECKED Baldev S. Dehal
QUANTITIES	BY Baldev S. Dehal	CHECKED Jagtar Dhalial

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 57M5506
 POST MILE

KEARNY MESA MATERIALS LAB
 NEW DUST COLLECTOR AND EXISTING DAMPER MOTORS PLAN

SHEET EE-5

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		75	78

Jagtar Dhalial 3-19-13
 REGISTERED ELECTRICAL ENGINEER DATE
 05-06-13
 PLANS APPROVAL DATE
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CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: FRANCIS SOLICH
 Approval date: 03-26-2013
 CSFM No. 01-37-11-0062

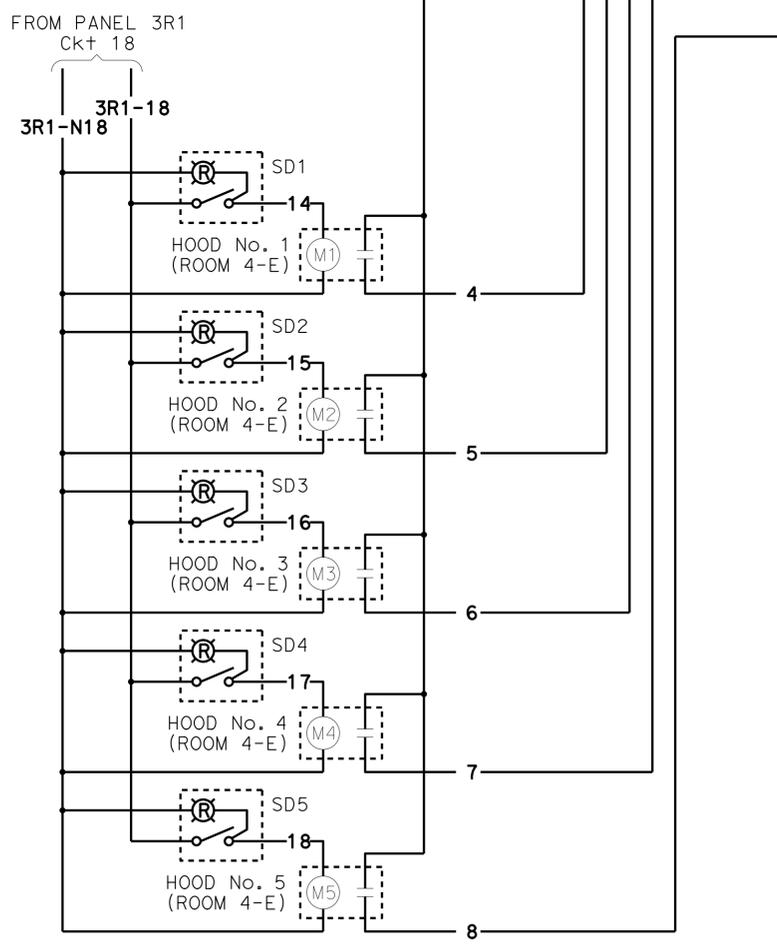
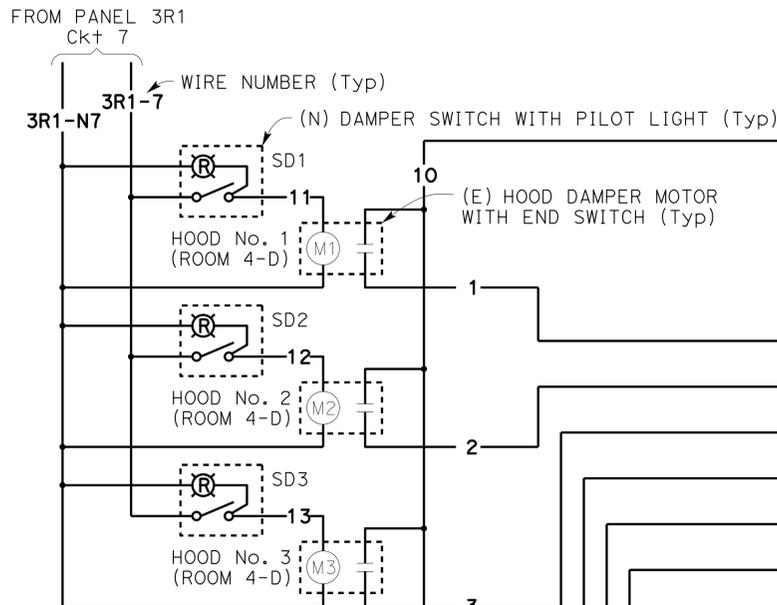
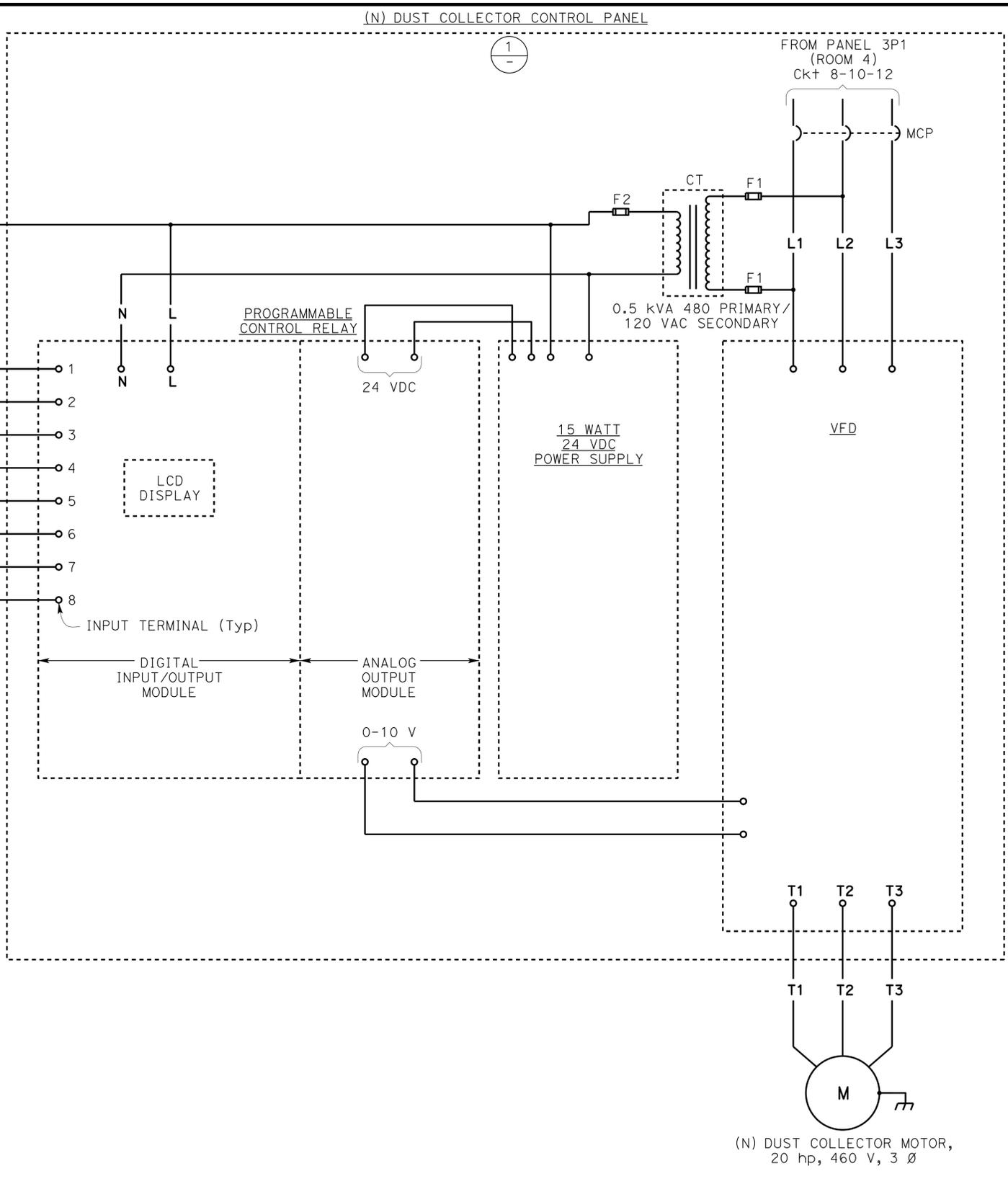
WARNING

Arc Flash and Shock Hazards
Appropriate PPE Required

Available Fault Current:
4,000 AMPERES

Calculation Date:
02-24-12

1 WARNING LABEL
 NOTE: Dust Collector Control Panel shall be legibly marked in the field, with the available fault current to comply with NEC 110.24(A).



DUST COLLECTOR MOTOR AND DAMPER MOTORS CONTROL SCHEMATIC

DESIGN	BY Baldev S. Dehal	CHECKED Jagtar Dhalial
DETAILS	BY Kathi Andreasen	CHECKED Baldev S. Dehal
QUANTITIES	BY Baldev S. Dehal	CHECKED Jagtar Dhalial

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

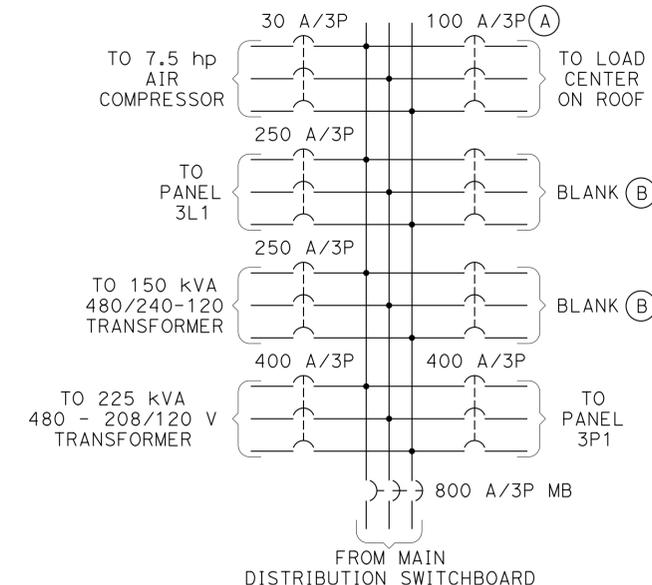
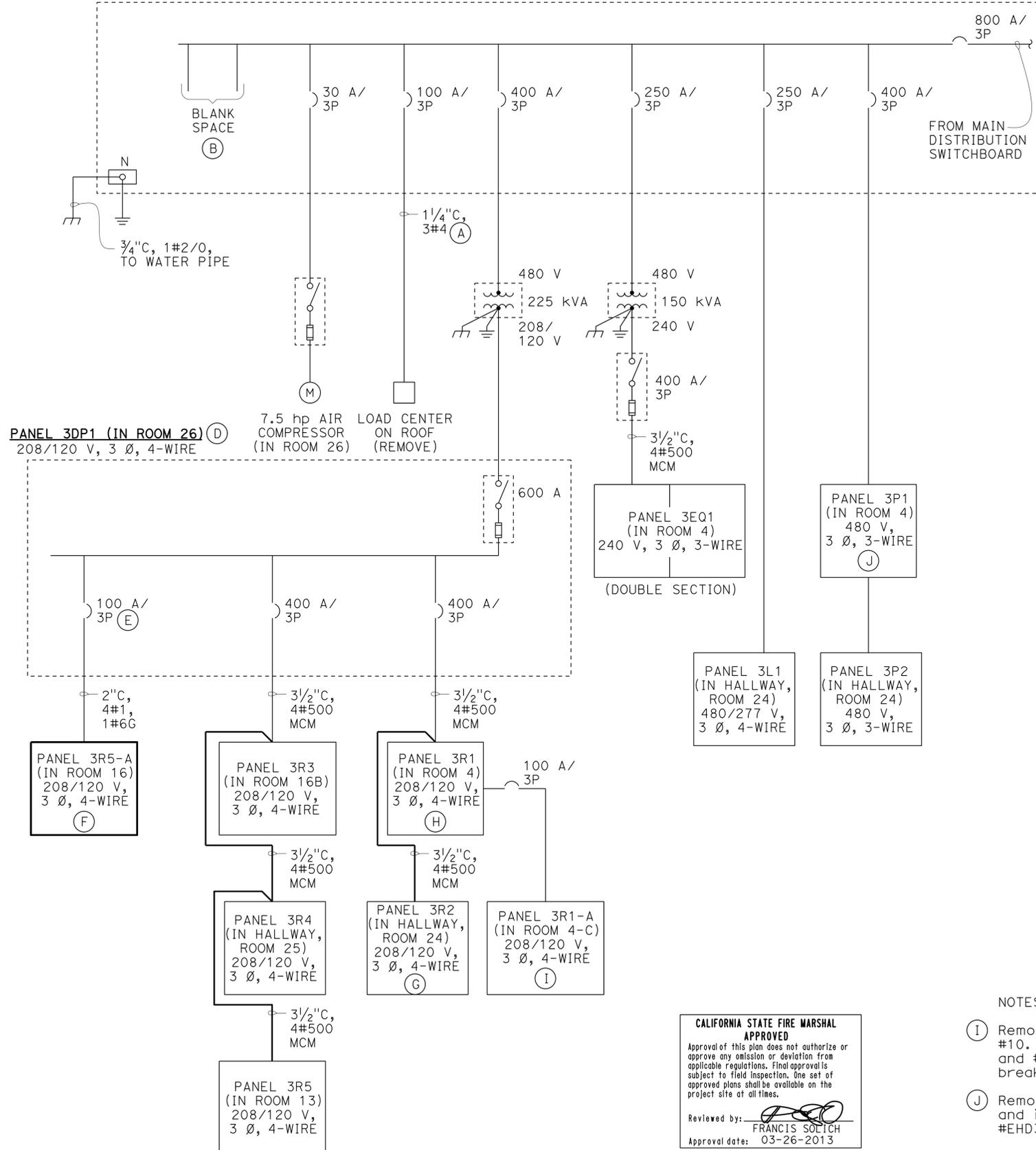
BRIDGE NO.	57M5506
POST MILE	

KEARNY MESA MATERIALS LAB
 NEW DUST COLLECTOR MOTOR AND EXISTING DAMPER MOTORS CONTROL SCHEMATIC

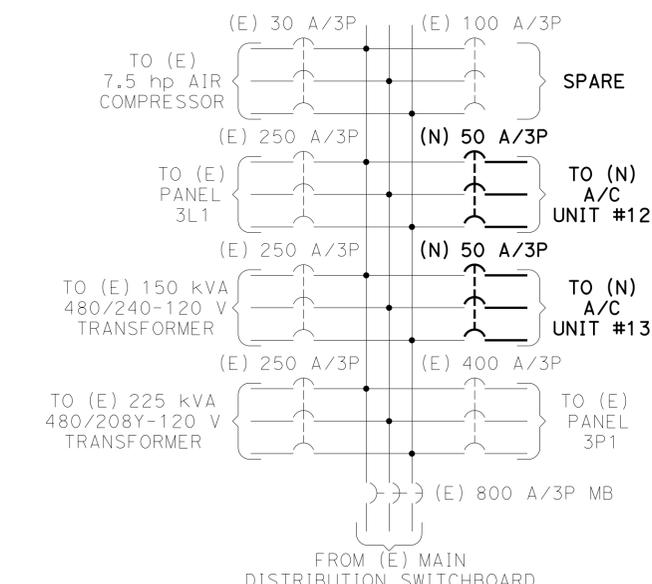
SHEET	EE-6
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EXISTING POWER DISTRIBUTION SWITCHBOARD S3 (IN ROOM 26) (C)

480/277 V, 3 Ø, 4-WIRE



EXISTING SWITCHBOARD S3



MODIFIED SWITCHBOARD S3

NOTES: (Continued)

- (I) Remove 20-ampere, 1-pole circuit breaker from space #8 and #10. Install 30-ampere, 1-pole circuit breaker in space #8 and #10, for exhaust fans EF32 and EF31. Existing circuit breakers are General Electric's type THQB.
- (J) Remove 30-ampere, 3-pole circuit breaker from space #2-4-6 and install new 60-ampere, 3-pole Cutler Hammer, Catalog #EHD3060 circuit breaker.

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		76	78

Jagtar Dhalial 3-19-13
 REGISTERED ELECTRICAL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
JAGTAR DHALIWAL
 No. E 16915
 Exp. 06-30-15
 ELEC
 STATE OF CALIFORNIA

05-06-13
 PLANS APPROVAL DATE

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NOTES:

- (A) Remove wires and install new nameplate, with 1/8" high lettering, with inscription as follows:
SPARE
- (B) Install new 50-ampere, 3-pole Cutler Hammer catalog #EHD3050L circuit breaker in blank space. Provide hardware to mount on existing bus bars as required. Install nameplate at each circuit breaker, with 1/8" high lettering, with inscription as follows:
1. ROOFTOP A/C UNIT 12
2. ROOFTOP A/C UNIT 13
- (C) Install new nameplate, with 1/4" high lettering, with inscription as follows:
POWER DISTRIBUTION SWITCHBOARD S3
480/277 V, 3 Ø, 4-WIRE
- (D) Install new nameplate, with 1/4" high lettering, with inscription as follows:
PANEL 3DP1
208/120 V, 3 Ø, 4-WIRE
- (E) Install new nameplate, with 1/4" high lettering, with inscription as follows:
PANEL 3R5-A
(IN ROOM 16)
- (F) Replace existing circuit breakers as follows:

In Space #	(E) CB Size	With New For New CB Size	A/C Unit
i) 19-21-23	20 A/3P	60 A/3P	#7
ii) 25-27-29	30 A/3P	50 A/3P	#3
iii) 26-28-30	40 A/3P	50 A/3P	#2

 Install 20 A/1P circuit breaker in space #32 for servicing receptacle on A/C #2.
- (G) Replace existing circuit breakers as follows:

In Space #	(E) CB Size	With New For New CB Size	A/C Unit
i) 15-17	50 A/2P	60 A/2P	#8
ii) 16-18	30 A/2P	45 A/2P	#9

 Install 20 A, 1P breaker in space #25 for Automatic Door Operator in Women Restroom. Existing circuit breakers are General Electric's type THQB. New circuit breakers shall be HACR rated circuit breakers. Modify panel directory.
- (H) Remove 20-ampere, 1-pole circuit breaker from space #4 and install 40-ampere, 1-pole circuit breaker for air cleaner unit, ASU-2. Existing circuit breakers are General Electric's Type THQB. Modify panel directory.

CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *[Signature]*
 FRANCIS SOLICH
 Approval date: 03-26-2013
 CSFM No. 01-37-11-0062

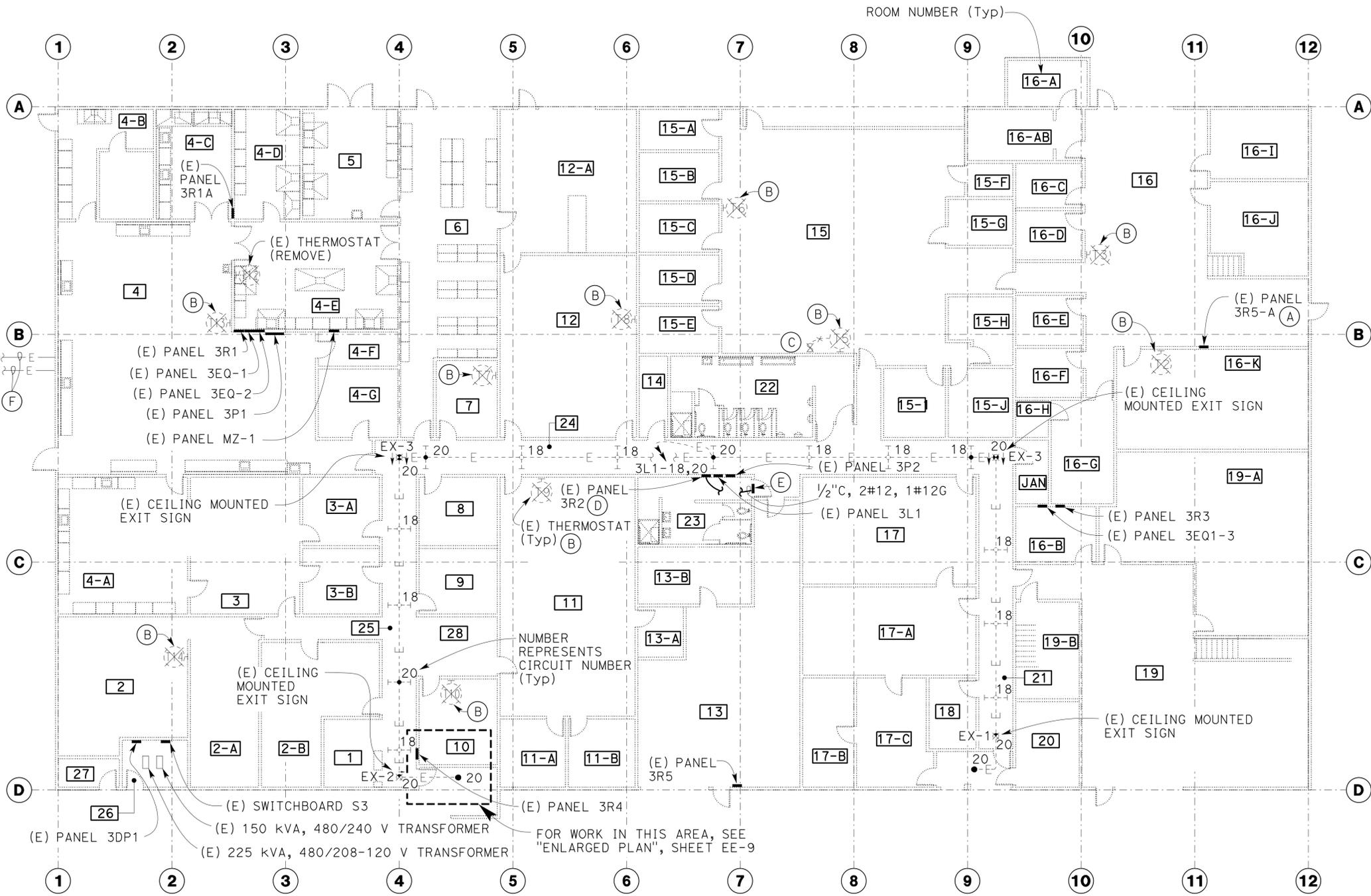
DESIGN	BY Baldev S. Dehal	CHECKED Jagtar Dhalial	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 57M5506	KEARNY MESA MATERIALS LAB EXISTING AND MODIFIED POWER DISTRIBUTION DIAGRAM	SHEET EE-7									
	DETAILS	BY Kathi Andreasen		CHECKED Baldev S. Dehal	PROJECT NUMBER & PHASE 3597 11000003451		POST MILE	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF							
QUANTITIES	BY Baldev S. Dehal	CHECKED Jagtar Dhalial	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1" style="font-size: 8px;"> <tr> <td>3/7/09</td> <td>3/19/13</td> <td>4/29/09</td> <td>5/7/09</td> <td>5/7/09</td> <td>6/7/09</td> <td>1/30/12</td> <td>3/29/12</td> <td>1/28/14</td> </tr> </table>	3/7/09	3/19/13	4/29/09	5/7/09	5/7/09	6/7/09	1/30/12	3/29/12	1/28/14	OF
3/7/09	3/19/13	4/29/09	5/7/09	5/7/09	6/7/09	1/30/12	3/29/12	1/28/14								

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DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		77	78

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: FRANCIS SOLICH
 Approval date: 03-26-2013
 CSFM No. 01-37-11-0062

Jagtar Dhalial 3-19-13
 REGISTERED ELECTRICAL ENGINEER DATE
 05-06-13
 PLANS APPROVAL DATE
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- GENERAL NOTES:
- The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.
 - At two locations, the existing thermostat cables are installed exposed on the wall. The Contractor shall install surface metal raceway (Wire duct) suitable for thermostat cable.
 - Paint the wire ducts to match the existing wall color.

- NOTES:
- (A) Formerly Panel 3R5. Replace nameplates with 1/4" high lettering, with inscription as follows:
 PANEL 3R5-A
 208/120 V, 3 Ø, 4-WIRE
 - (B) Remove existing thermostat and install new thermostat. For new thermostat location, see Mechanical sheets M-3 thru M-6. Number corresponds to roof mounted A/C units, see sheet EE-2 and EE-3. For maximum thermostat mounting height, see Architect Plans.
 - (C) Remove Hand-Off-Auto switch and install blank cover.
 - (D) Install 20A, 1P breaker in space # 25, connect 2#12 conductors for Automatic Door Operator in Women Restroom. Modify panel directory.
 - (E) Automatic door operator, install push buttons, control conductors, conduits per manufacturer's recommendations. See Architect plans for location and mounting height of operator and push buttons.
 - (F) Cut and cap two 8 feet long steel conduits exposed from exterior wall at elevation of 10 feet.

PLAN
 THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.
 3/32" = 1'-0"

DESIGN BY Baldev S. Dehal CHECKED Jagtar Dhalial	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 57M5506	KEARNY MESA MATERIALS LAB	SHEET EE-8
			POST MILE		
DETAILS BY Kathi Andreasen CHECKED Baldev S. Dehal	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3597 11000003451	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 4/30/09 5/5/09 5/6/09 6/1/09 1/30/12 3/30/12 11/06/12 12/7/12 3/19/13	SHEET OF
QUANTITIES BY Baldev S. Dehal CHECKED Jagtar Dhalial	287701	77_ee_08.dgn			

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5506		78	78

Jagtar Dhalival 3-19-13
REGISTERED ELECTRICAL ENGINEER DATE

05-06-13
PLANS APPROVAL DATE

Francis Solich
FRANCIS SOLICH
Approval date: 03-26-2013
CSFM No. 01-37-11-0062

CALIFORNIA STATE FIRE MARSHAL
APPROVED
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REGISTERED PROFESSIONAL ENGINEER
JAGTAR DHALIWAL
No. E 16915
Exp. 06-30-15
ELEC
STATE OF CALIFORNIA

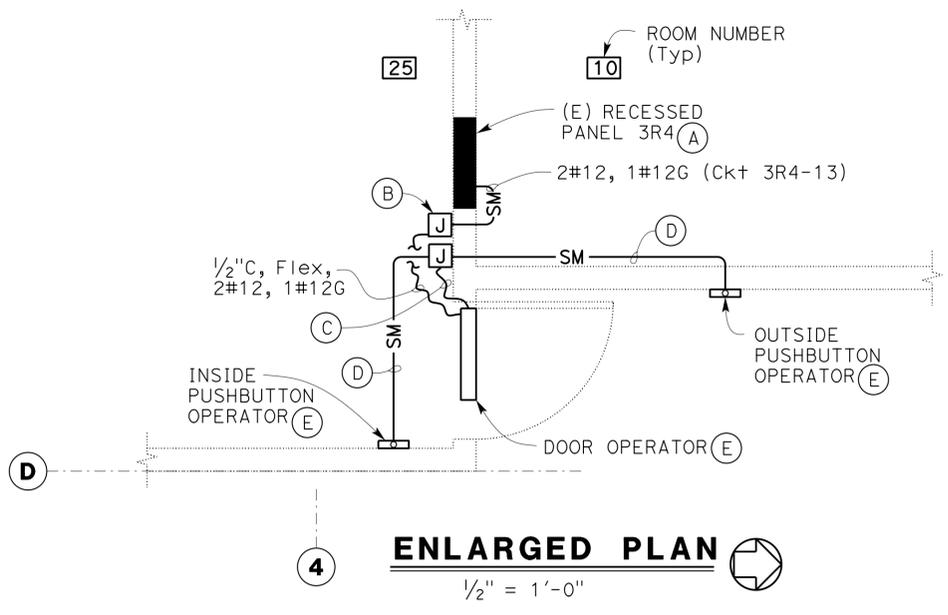
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GENERAL NOTES:

- The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.
- Paint the wire ducts to match the existing wall color.

NOTES:

- (A) Connect 2#12 to spare 20-ampere, 1-pole circuit breaker in space #13.
- (B) Mount junction box near new door operator installed.
- (C) Flexible conduit and cables as recommended by door operator manufacturer.
- (D) Size of wire duct and cable as recommended by the door opener manufacturer.
- (E) For mounting height and location of door operator and pushbutton operators, see Architectural plans.



THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Baldev S. Dehal	CHECKED Jagtar Dhalival
DETAILS	BY Kathi Andreasen	CHECKED Baldev S. Dehal
QUANTITIES	BY Baldev S. Dehal	CHECKED Jagtar Dhalival

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 57M5506
POST MILE

KEARNY MESA MATERIALS LAB		SHEET EE-9
ENLARGED PLAN		
UNIT PROJECT NUMBER & PHASE	3597 11000003451	DISREGARD PRINTS BEARING EARLIER REVISION DATES
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	REVISION DATES (PRELIMINARY STAGE ONLY)
		6/2/09 3/30/12 2/03/13 3/19/13