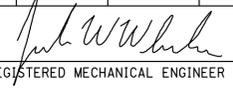


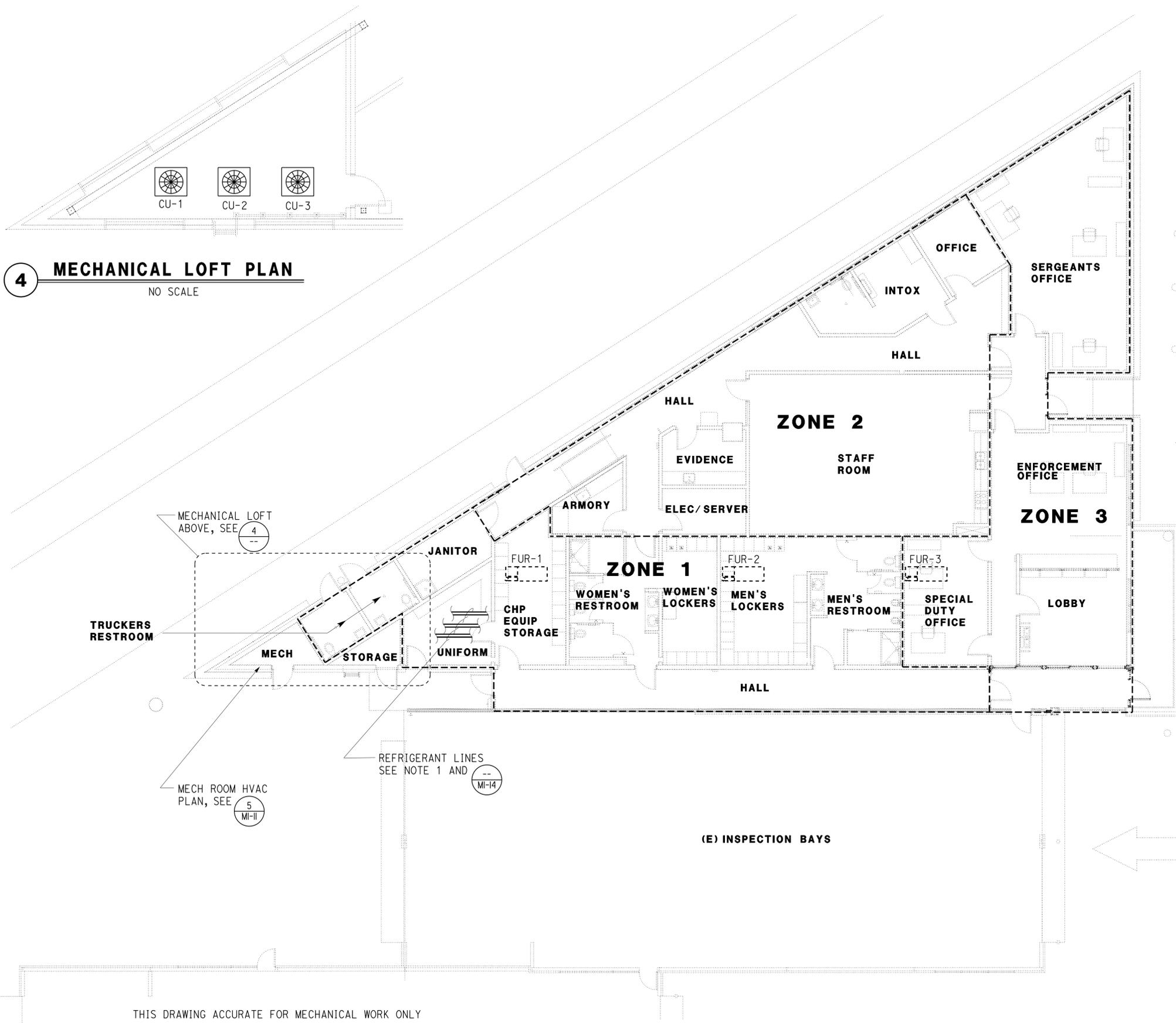
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	05	R7.2	201	262
 REGISTERED MECHANICAL ENGINEER DATE 01-22-15					
08-24-2015 PLANS APPROVAL DATE					
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Reviewed by: 
 FRANCIS SOLICH
 Approval date: 01-21-15

4 MECHANICAL LOFT PLAN
 NO SCALE



NOTES

- Refrigerant lines must be long-line type, and must be sized to restrict cooling capacity loss to 1 percent based upon manufacturer's guidelines. The required length of the refrigerant lines must be determined by the contractor. Refrigerant line sizing must be submitted with the A/C equipment for approval.
- For equipment schedules, see 
- For Mech room HVAC plan, see 

HVAC ZONE PLAN
 1/8" = 1'-0"

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DESIGN BY Thomas Dietsch CHECKED Jack Wheeler DETAILS BY Thomas Dietsch / AC CHECKED Jack Wheeler QUANTITIES BY Thomas Dietsch CHECKED Jack Wheeler	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 02W0002 POST MILE R7.2	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE HVAC ZONE PLAN	SHEET M1-7 OF
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3615 CONTRACT No.: 2E8004 PROJECT NUMBER & PHASE: 02000006031	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 09-11-13 01-15-14 04-11-14 05-14-14 08-20-14 01-22-15	SHEET OF
	TAEWW Imperial - CCSC Rev. 02/13 P:\dist_02\0200000603_dunsmuir_cvet_improvement\expedite\m1_7.dgn				

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	05	R7.2	203	262
			01-22-15	DATE	
08-24-2015			PLANS APPROVAL DATE		
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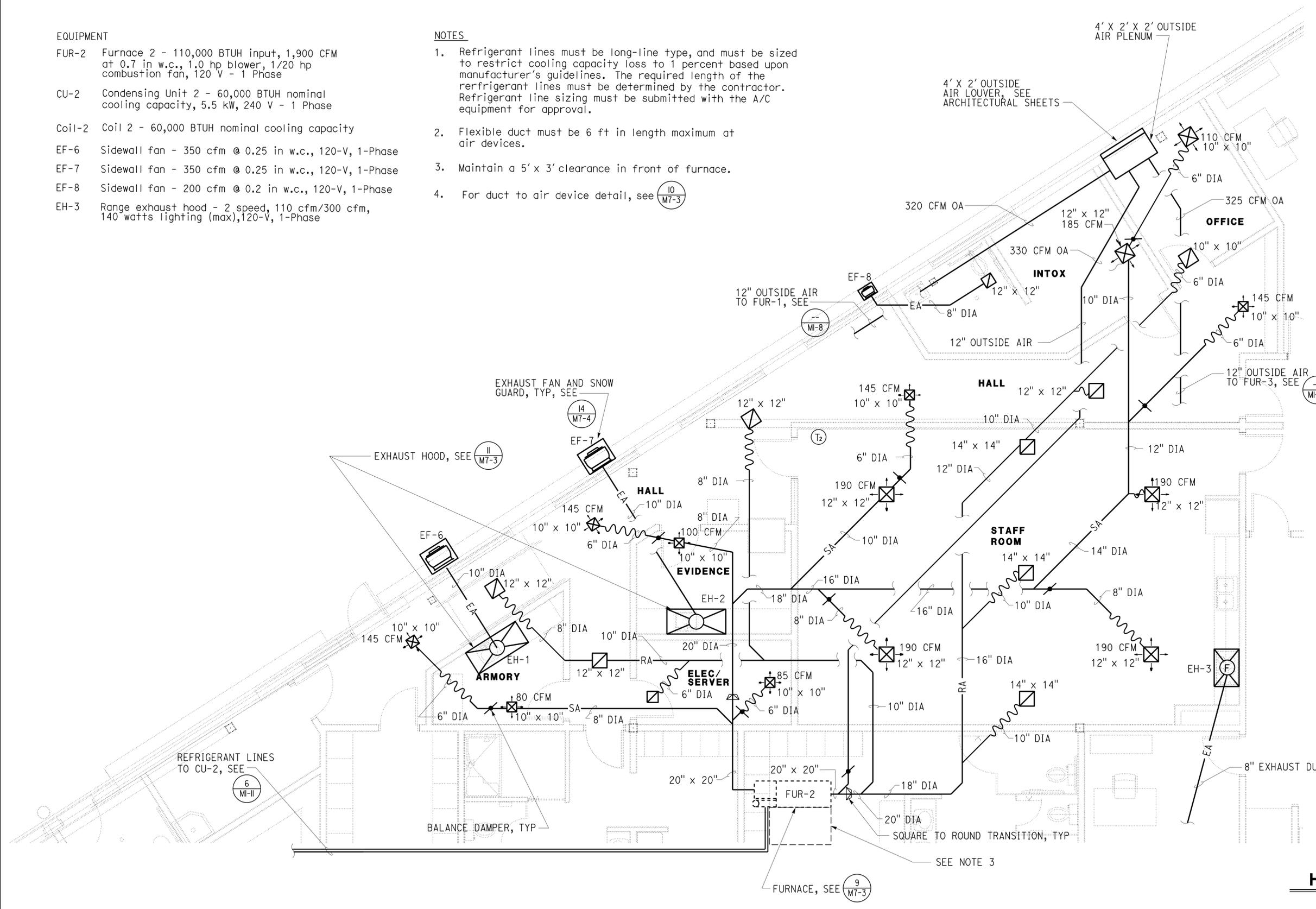
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FRANCIS SOLICH

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- EQUIPMENT**
- FUR-2 Furnace 2 - 110,000 BTUH input, 1,900 CFM at 0.7 in w.c., 1.0 hp blower, 1/20 hp combustion fan, 120 V - 1 Phase
 - CU-2 Condensing Unit 2 - 60,000 BTUH nominal cooling capacity, 5.5 kW, 240 V - 1 Phase
 - Coil-2 Coil 2 - 60,000 BTUH nominal cooling capacity
 - EF-6 Sidewall fan - 350 cfm @ 0.25 in w.c., 120-V, 1-Phase
 - EF-7 Sidewall fan - 350 cfm @ 0.25 in w.c., 120-V, 1-Phase
 - EF-8 Sidewall fan - 200 cfm @ 0.2 in w.c., 120-V, 1-Phase
 - EH-3 Range exhaust hood - 2 speed, 110 cfm/300 cfm, 140 watts lighting (max), 120-V, 1-Phase

- NOTES**
1. Refrigerant lines must be long-line type, and must be sized to restrict cooling capacity loss to 1 percent based upon manufacturer's guidelines. The required length of the refrigerant lines must be determined by the contractor. Refrigerant line sizing must be submitted with the A/C equipment for approval.
 2. Flexible duct must be 6 ft in length maximum at air devices.
 3. Maintain a 5' x 3' clearance in front of furnace.
 4. For duct to air device detail, see 



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HVAC PLAN
1/4" = 1'-0"

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	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3615 CONTRACT No.: 2E8004 PROJECT NUMBER & PHASE: 02000006031	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 09-11-13 01-15-14 04-11-14 05-14-14 08-20-14 01-22-15	SHEET OF
	TAEWW Imperial - CCSC Rev. 02/13	P:\dist_02\0200000603_dunsmuir_cvetf_improvement\expedite\m1_9.dgn			

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	05	R7.2	204	262

01-22-15
 REGISTERED MECHANICAL ENGINEER DATE
 08-24-2015
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REGISTERED PROFESSIONAL ENGINEER
 Jack Wheeler
 No. M 21648
 Exp. 6-30-17
 MECH
 STATE OF CALIFORNIA

EQUIPMENT

FUR-3 Furnace 3 - 110,000 BTUH input, 1,900 CFM at 0.7 in w.c., 1.0 hp blower, 1/20 hp combustion fan, 120 V - 1 Phase

CU-3 Condensing Unit 3 - 60,000 BTUH nominal cooling capacity, 5.5 kW, 240 V - 1 Phase

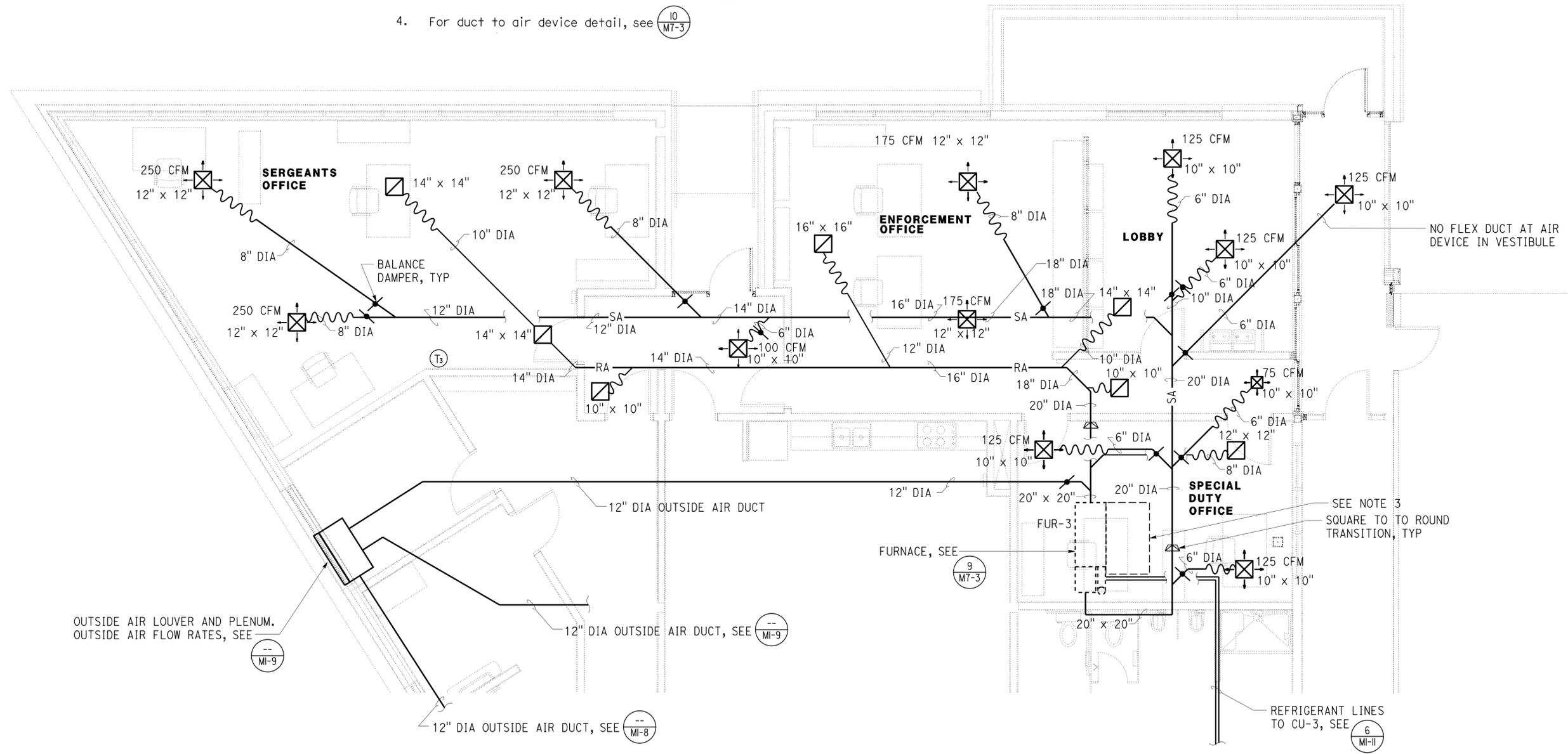
Coil-3 Coil 3 - 60,000 BTUH nominal cooling capacity

- NOTES**
- Refrigerant lines must be long-line type, and must be sized to restrict cooling capacity loss to 1 percent based upon manufacturer's guidelines. The required length of the refrigerant lines must be determined by the contractor. Refrigerant line sizing must be submitted with the A/C equipment for approval.
 - Flexible duct must be 6 ft in length maximum at air devices, unless otherwise noted.
 - Maintain a 5' x 3' clearance in front of furnace.
 - For duct to air device detail, see 10
M7-3

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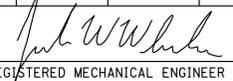
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HVAC PLAN
 1/4" = 1'-0"

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	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			UNIT: 3615 CONTRACT No.: 2E8004 PROJECT NUMBER & PHASE: 02000006031		DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) 09-11-13 01-15-14 04-11-14 05-11-14 08-20-14 01-22-15		SHEET OF
	TAEWW Imperial - CCSC Rev. 02/13 P:\dist_02\0200000603_dunsmuir_cvef_improvement\expdite\m1_10.dgn							

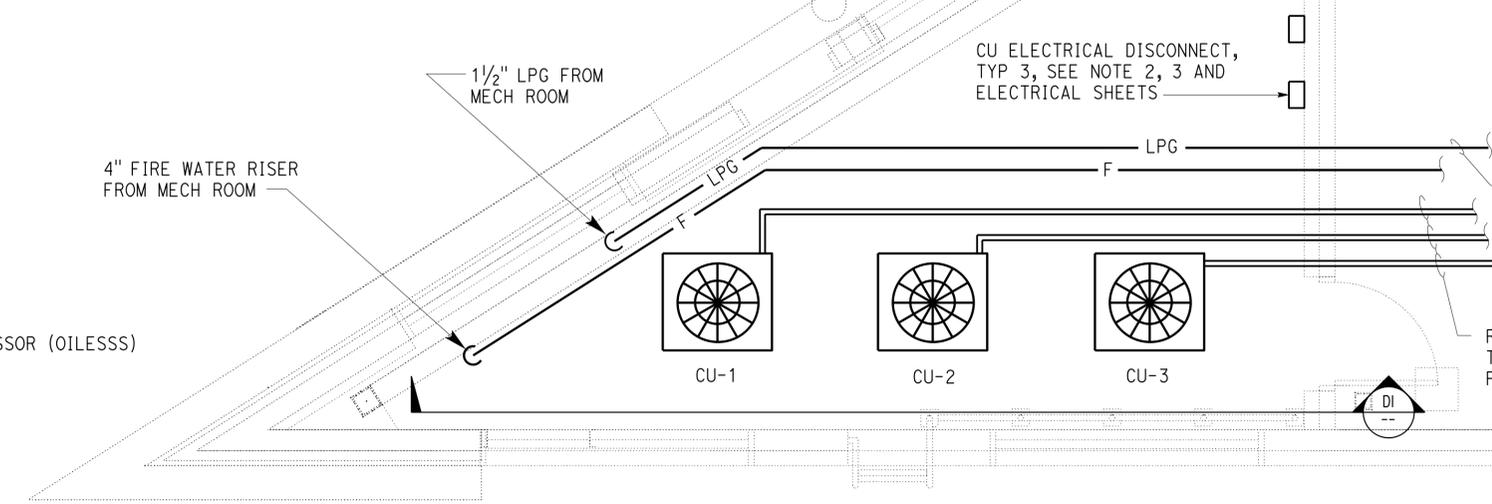
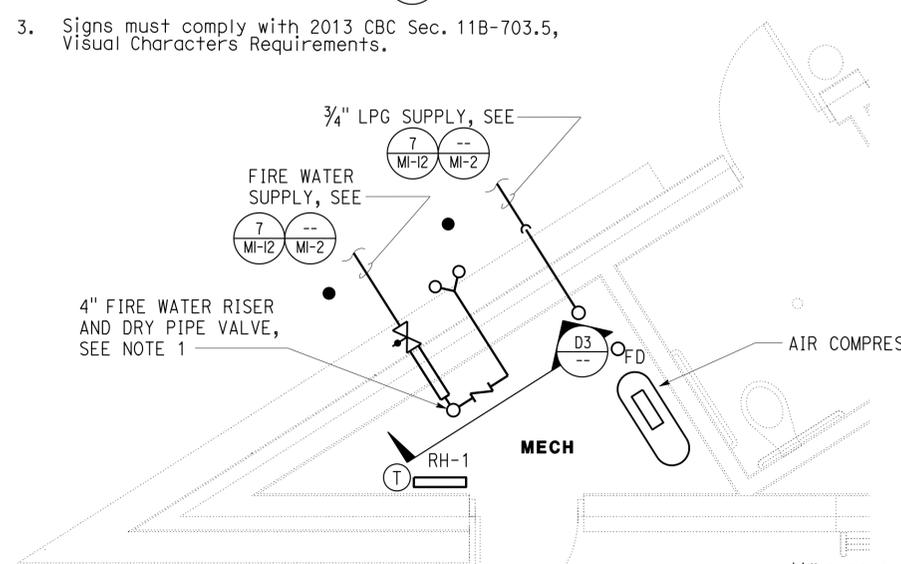
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	05	R7.2	205	262
 REGISTERED MECHANICAL ENGINEER DATE 01-22-15					
08-24-2015 PLANS APPROVAL DATE					
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- NOTES
1. Install radiant heater on wall and angle toward riser and dry pipe valve. Thermostat must be line-voltage type and be mounted 4 ft above floor and set for 40 deg. F.
 2. Install a sign above each condensing unit electrical disconnect, see **D2**
 3. Signs must comply with 2013 CBC Sec. 11B-703.5, Visual Characters Requirements.

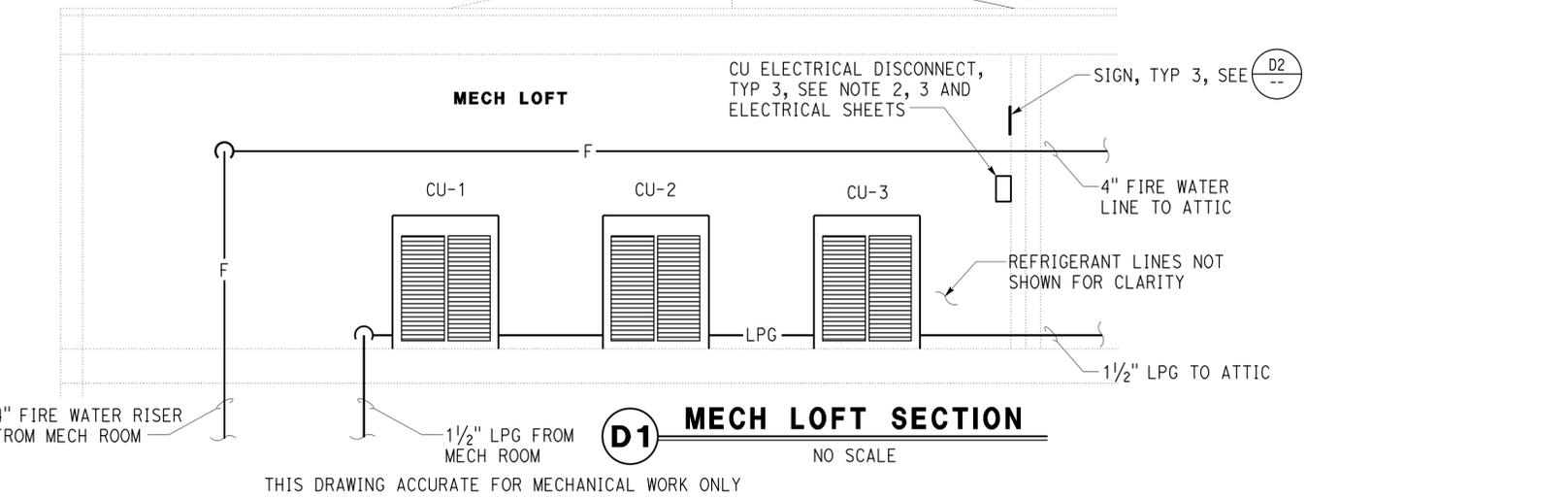
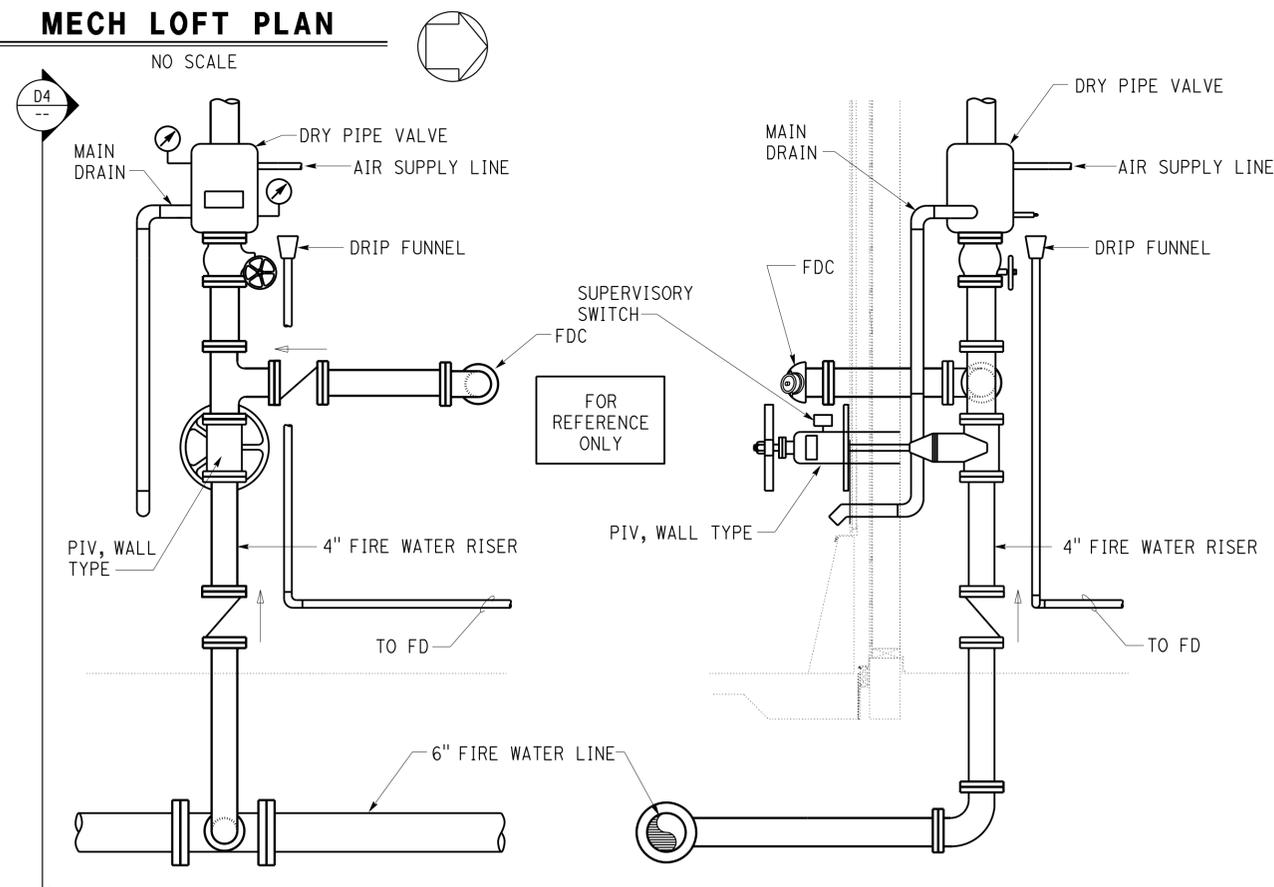
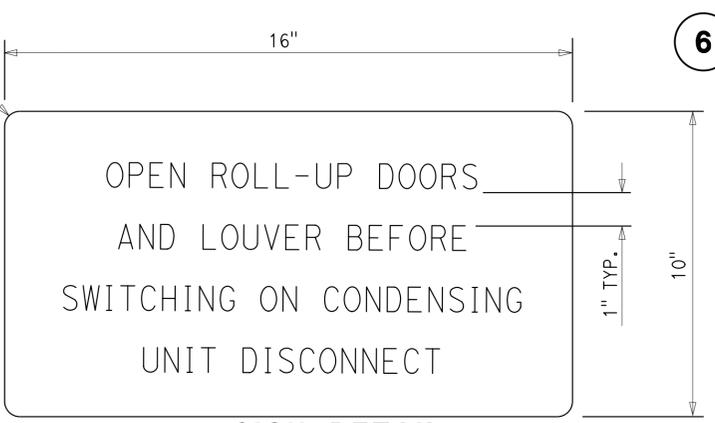
EQUIPMENT SCHEDULE

RH	Radiant heater (electric wall mount) - 1.0 kW, 240 V, 1-Phase
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The automatic fire sprinkler system shall conform to the requirements of the 2013 ed. of NFPA 13. Installation of the fire sprinkler system shall not be started until complete plans and specifications (including water supply information and type of existing system, if any) have been approved by the California State Fire Marshal. At various stages and upon completion, the system shall be tested in the presence of the California State Fire Marshal.



CALIFORNIA STATE FIRE MARSHAL
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	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3615 CONTRACT No.: 2E8004 PROJECT NUMBER & PHASE: 0200006031	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 09-11-13 01-15-14 04-11-14 05-14-14 08-20-14 01-22-15	SHEET OF
	TAEWW Imperial - CCSC Rev. 02/13	P:\dist_02\020000603_dunsmuir_cvef_improvement\expedite\m1_11.dgn			

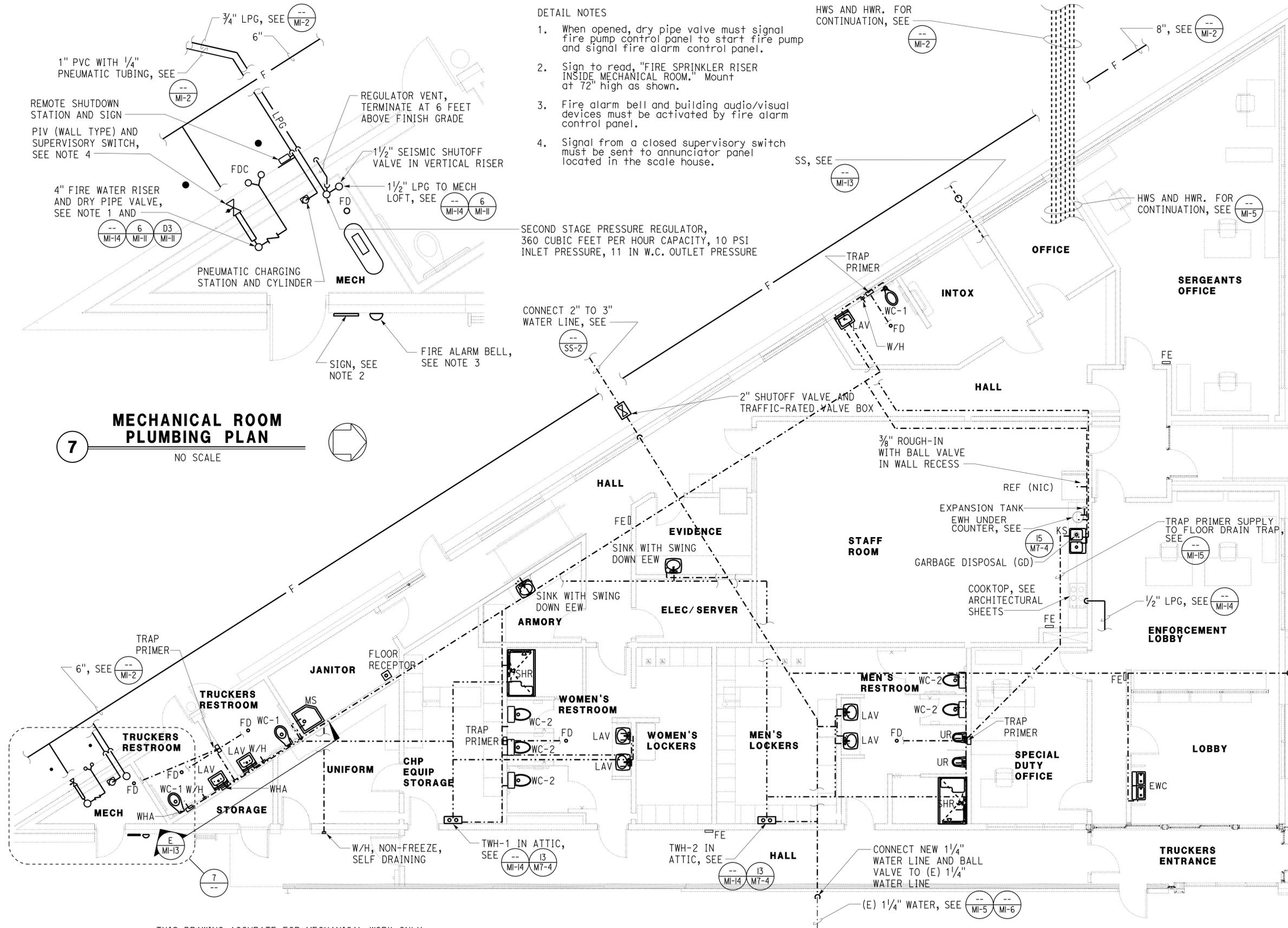
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	05	R7.2	206	262
 REGISTERED MECHANICAL ENGINEER DATE 01-22-15					
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 STATE OF CALIFORNIA
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- DETAIL NOTES**
- When opened, dry pipe valve must signal fire pump control panel to start fire pump and signal fire alarm control panel.
 - Sign to read, "FIRE SPRINKLER RISER INSIDE MECHANICAL ROOM." Mount at 72" high as shown.
 - Fire alarm bell and building audio/visual devices must be activated by fire alarm control panel.
 - Signal from a closed supervisory switch must be sent to annunciator panel located in the scale house.



- PLAN NOTES**
- See sheet M1-15 for pipe sizes.
- EQUIPMENT**
- TWH-1 Tankless water heater 1 (LPG) - 200,000 BTUH input, 8.4 gpm at 45 degree temperature rise.
 - TWH-2 Tankless water heater 2 (LPG) - 200,000 BTUH input, 8.4 gpm at 45 degree temperature rise.
 - EWH Electric Water Heater - 5 gallon, 3000 watts, 12.5 amps, 240 V, 1-Phase
 - GD Garbage Disposal - 1/2 hp, 120 V, 1-Phase
 - EWC Electric Water Cooler - split level type, 8 gallons per hour (50 deg F water at 80 deg F inlet water), 1/4 hp compressor, 4.6 amps
 - FE Fire extinguisher shall be semi-recessed 2A:10B:C, see architectural sheets
- W/H, NON-FREEZE, SELF DRAINING

WATER/LPG PLAN

3/16" = 1'-0"



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DETAILS	BY Thomas Dietsch / AC	CHECKED Jack Wheeler
QUANTITIES	BY Thomas Dietsch	CHECKED Jack Wheeler

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 02W0002
 POST MILE R7.2

DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE

PLUMBING FLOOR PLAN - WATER/LPG

SHEET **M1-12**

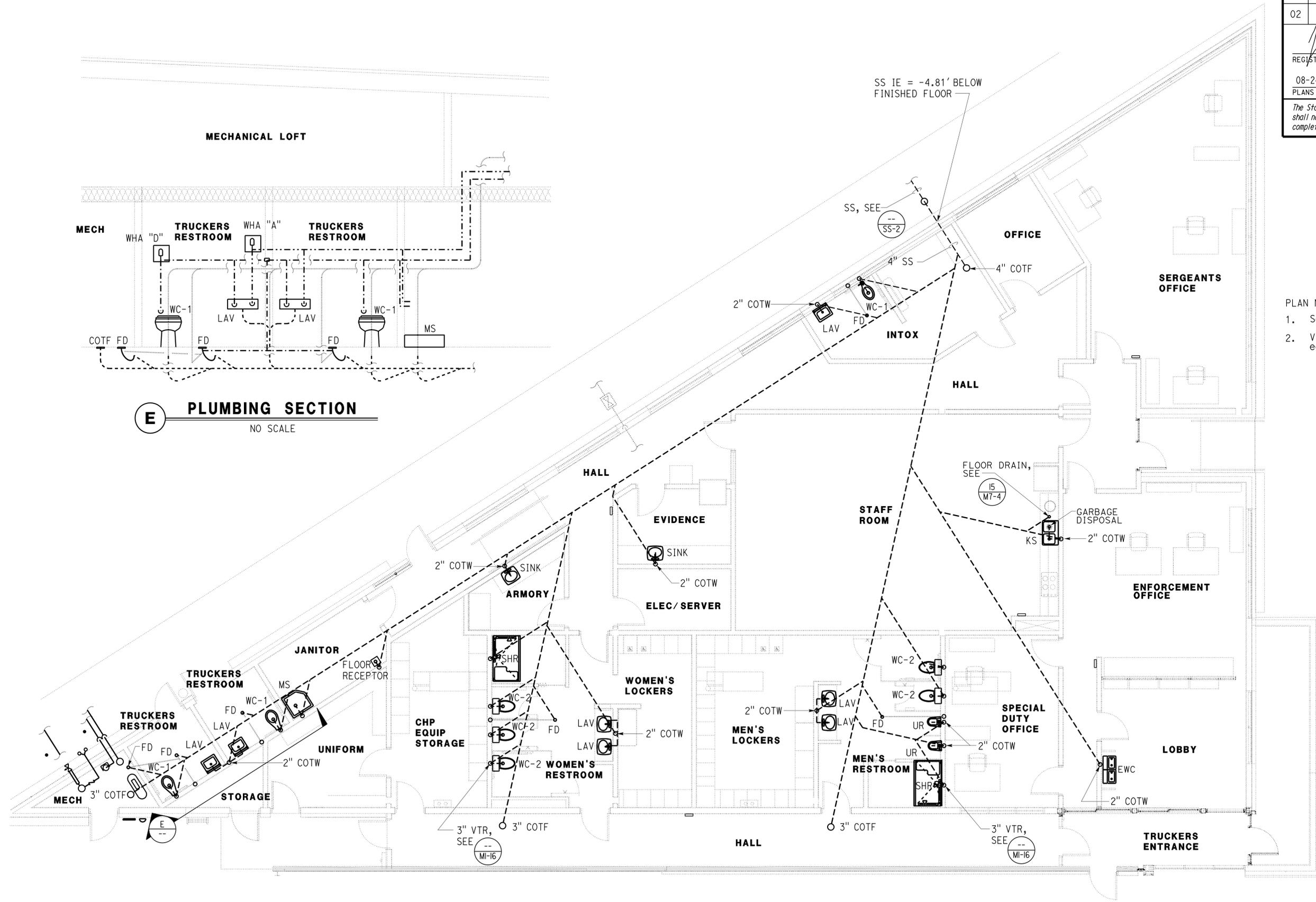
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	05	R7.2	207	262

01-22-15
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REGISTERED PROFESSIONAL ENGINEER
 Jack Wheeler
 No. M 21648
 Exp. 6-30-17
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- PLAN NOTES
- See sheet M1-16 for pipe sizes.
 - VTR must terminate within 5' of eastern roof edge.

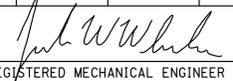


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 DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN
 BRIDGE No. 02W0002
 POST MILE R7.2

DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE
 PLUMBING FLOOR PLAN - DRAINAGE
 SHEET M1-13 OF

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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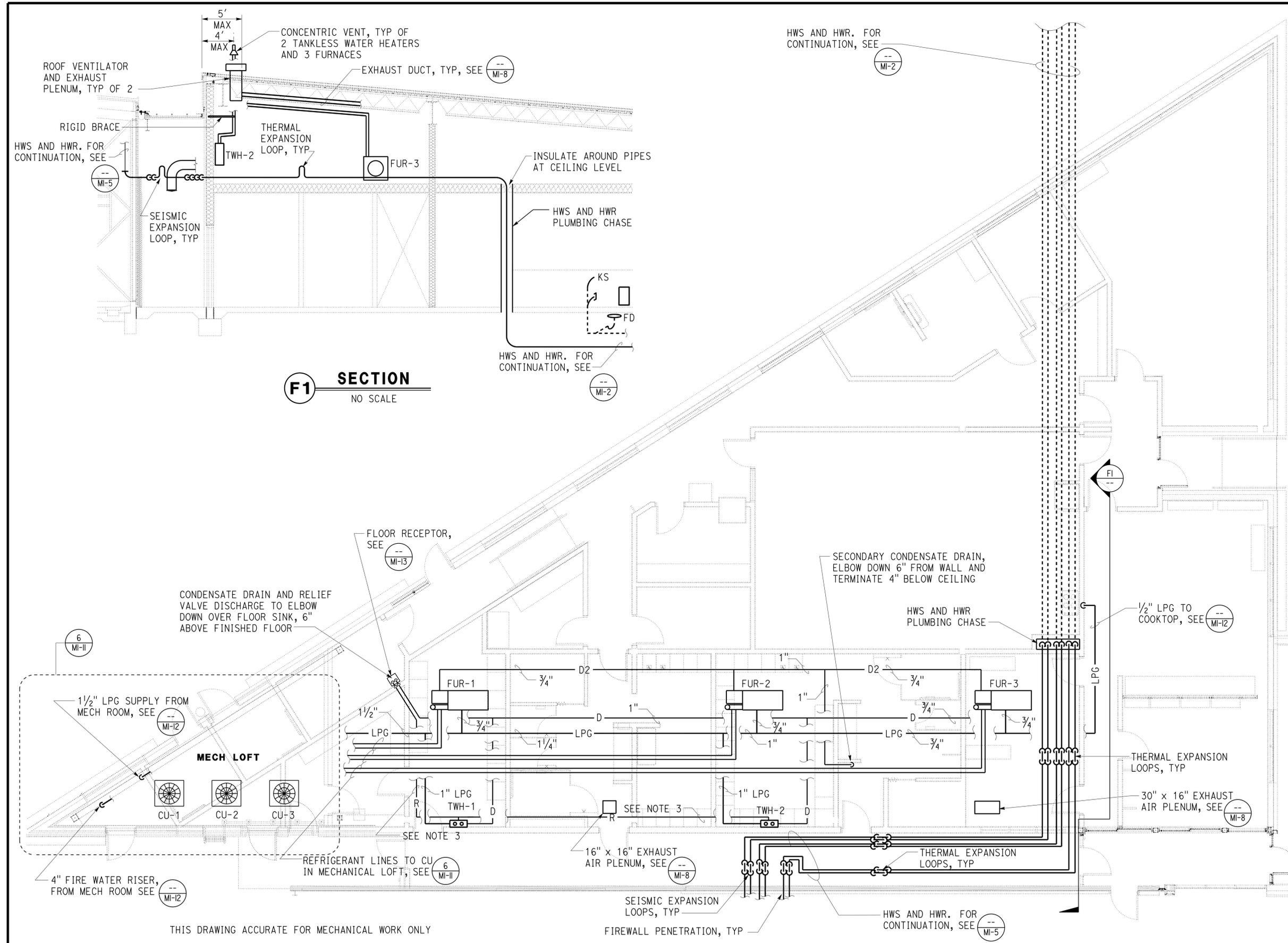
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 Approval date: 01-21-15

NOTES

1. Tankless water heater condensate line must be PVC and have a condensate neutralizer installed. Tankless water heater flue and combustion air intake must terminate through the roof in a concentric vent kit.
2. Furnace condensate lines must be PVC and must have condensate neutralizers installed.
3. Size relief valve discharge piping according to manufacturer's recommendation.
4. Insulate all condensate lines.



F1 SECTION
NO SCALE

ATTIC PLAN
3/16" = 1'-0"

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	DETAILS BY Thomas Dietsch / AC CHECKED Jack Wheeler			UNIT: 3615 CONTRACT No.: 2E8004 PROJECT NUMBER & PHASE: 02000006031		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 09-11-13 01-15-14 04-11-14 05-14-14 08-20-14 01-22-15	SHEET OF
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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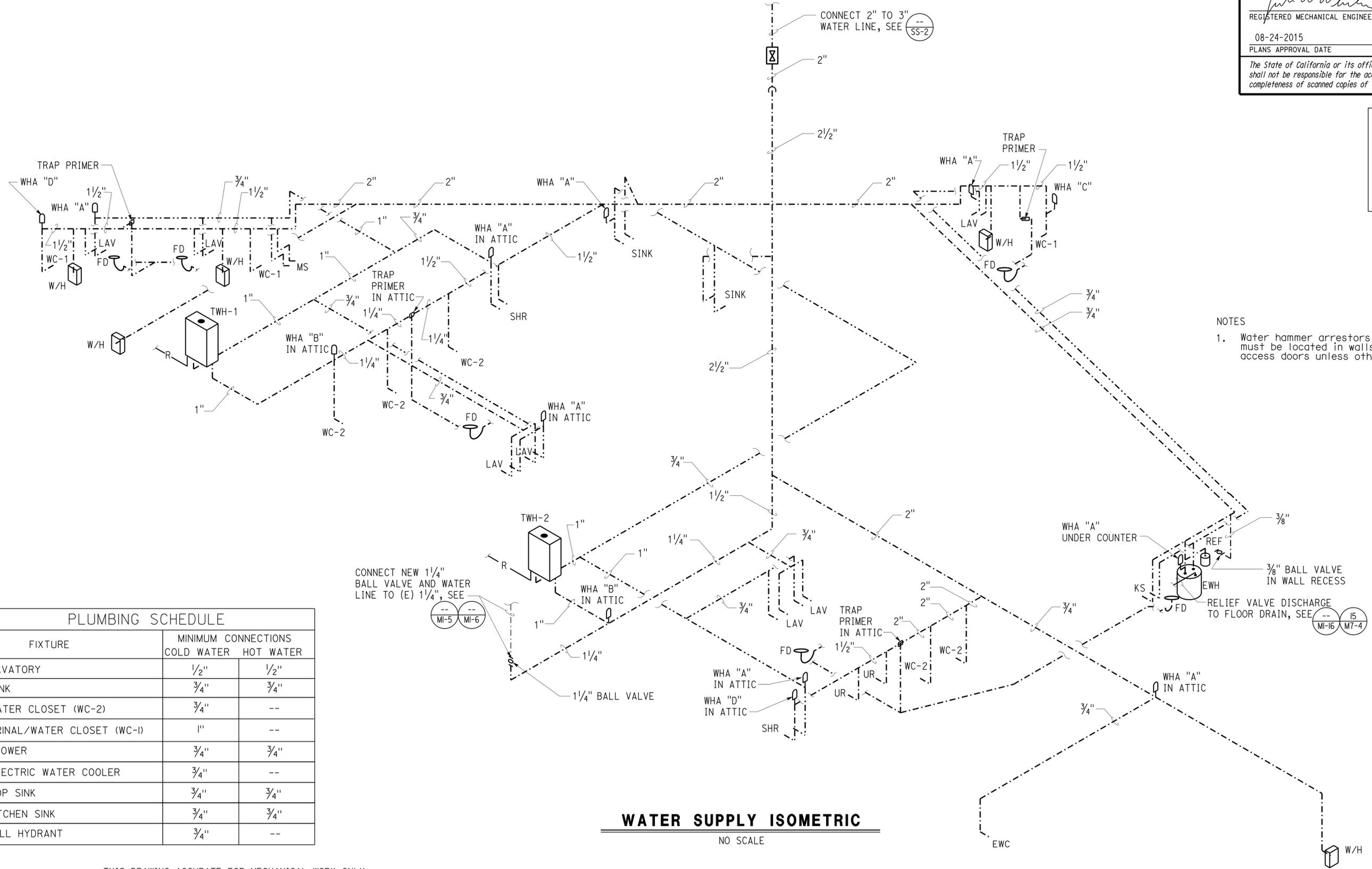
01-22-15
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 08-24-2015
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REGISTERED PROFESSIONAL ENGINEER
 Jack Wheeler
 No. M 21648
 Exp. 6-30-17
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NOTES
 1. Water hammer arrestors and trap primers must be located in walls accessible through access doors unless otherwise noted.

FIXTURE	MINIMUM CONNECTIONS	
	COLD WATER	HOT WATER
LAVATORY	1/2"	1/2"
SINK	3/4"	3/4"
WATER CLOSET (WC-2)	3/4"	--
URINAL/WATER CLOSET (WC-1)	1"	--
SHOWER	3/4"	3/4"
ELECTRIC WATER COOLER	3/4"	--
MOP SINK	3/4"	3/4"
KITCHEN SINK	3/4"	3/4"
WALL HYDRANT	3/4"	--

WATER SUPPLY ISOMETRIC

NO SCALE

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	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3615 CONTRACT No.: 2E8004 PROJECT NUMBER & PHASE: 02000006031	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 09-11-13 01-15-14 04-11-14 05-14-14 08-20-14 01-22-15	SHEET OF
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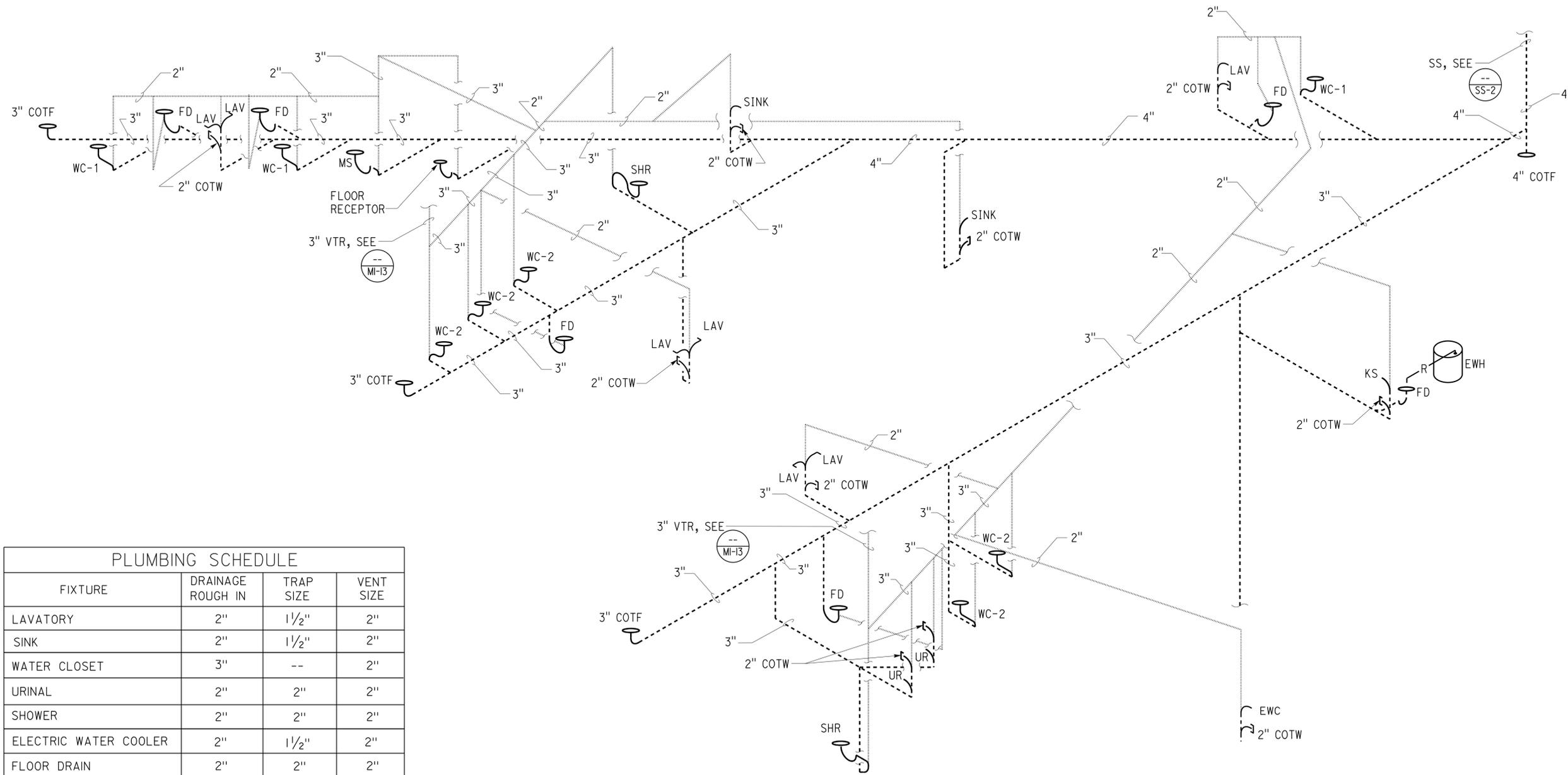
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	05	R7.2	210	262

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PLUMBING SCHEDULE			
FIXTURE	DRAINAGE ROUGH IN	TRAP SIZE	VENT SIZE
LAVATORY	2"	1 1/2"	2"
SINK	2"	1 1/2"	2"
WATER CLOSET	3"	--	2"
URINAL	2"	2"	2"
SHOWER	2"	2"	2"
ELECTRIC WATER COOLER	2"	1 1/2"	2"
FLOOR DRAIN	2"	2"	2"
MOP SINK	3"	3"	2"
KITCHEN SINK	2"	1 1/2"	2"
FLOOR RECEPTOR	2"	2"	2"

DRAINAGE ISOMETRIC
 NO SCALE

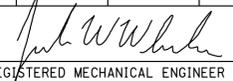
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			UNIT: 3615 CONTRACT No.: 2E8004 PROJECT NUMBER & PHASE: 02000006031		

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

TAEWW Imperial - CCSC Rev. 02/13

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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NOTES

- Only major boiler and hydronic system components shown for clarity. For complete system details, see Sheet M2-2.
- Install unions on all connections to boilers, pumps, valves, meters, gauges and equipment.
- Install radiant heaters at height of 8 ft and angle 45 degrees downward.
- Terminate boiler intake and exhaust pipes through southwest wall.

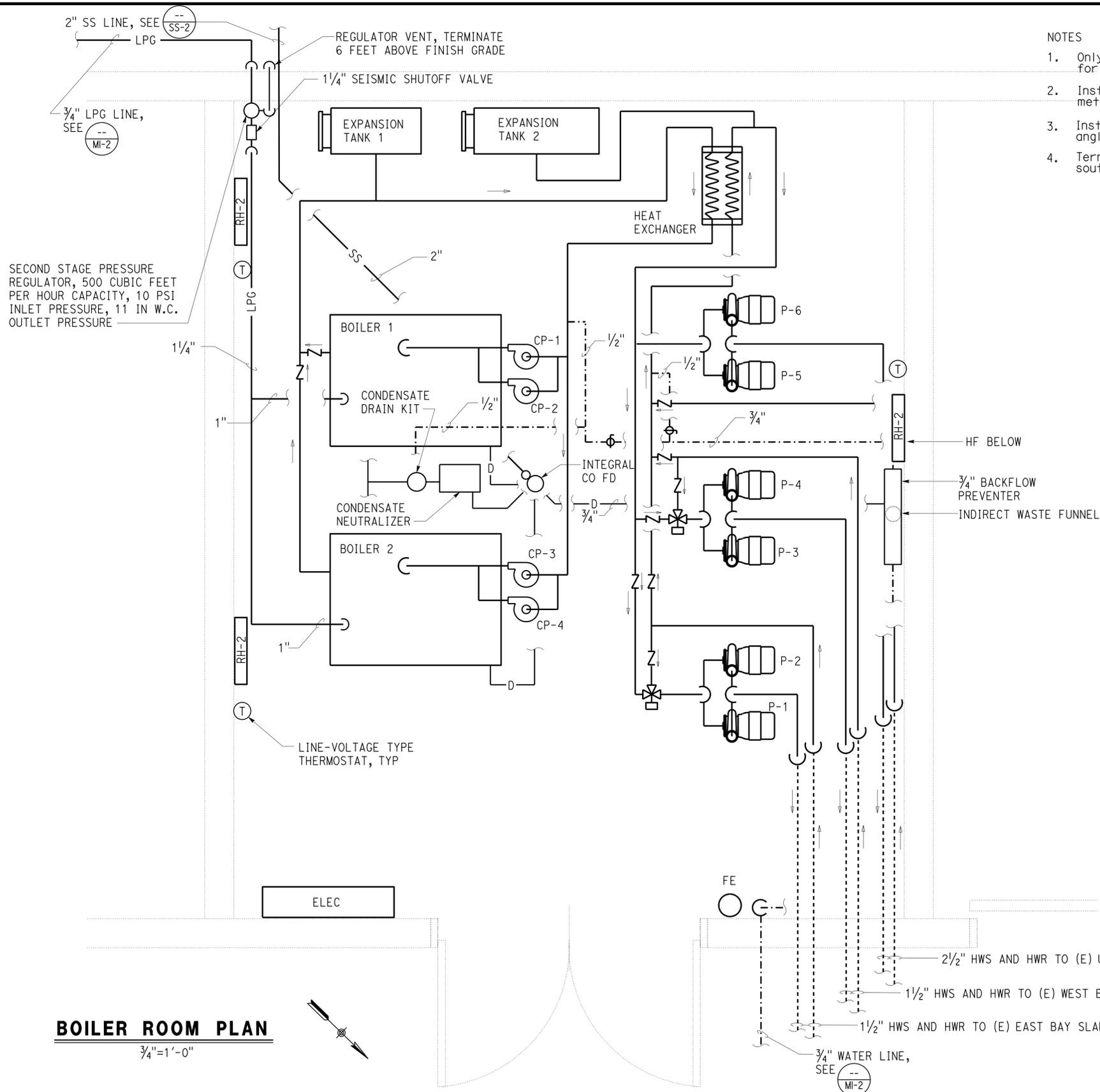
EQUIPMENT SCHEDULE

BOILER 1	Boiler 1 (condensing, LPG fired, direct vent) - 500,000 BTUH input, 120-V, 1-Phase, 6 amps
BOILER 2	Boiler 2 (condensing, LPG fired, direct vent) - 500,000 BTUH input, 120-V, 1-Phase, 6 amps
P-1	Pump 5 (end suction, close coupled) - 18 GPM @ 55' TDH, 3/4hp, 120-V, 1-Phase
P-2	Pump 6 (end suction, close coupled) - 18 GPM @ 55' TDH, 3/4hp, 120-V, 1-Phase
P-3	Pump 3 (end suction, close coupled) - 18 GPM @ 50' TDH, 3/4hp, 120-V, 1-Phase
P-4	Pump 4 (end suction, close coupled) - 18 GPM @ 50' TDH, 3/4hp, 120-V, 1-Phase
P-5	Pump 1 (end suction, close coupled) - 35 GPM @ 35' TDH, 3/4hp, 120-V, 1-Phase
P-6	Pump 2 (end suction, close coupled) - 35 GPM @ 35' TDH, 3/4hp, 120-V, 1-Phase
CP-1	Circulating Pump 1 (in-line) - 35 GPM @ 35' TDH, 3/4hp, 120-V, 1-Phase
CP-2	Circulating Pump 2 (in-line) - 35 GPM @ 35' TDH, 3/4hp, 120-V, 1-Phase
CP-3	Circulating Pump 3 (in-line) - 35 GPM @ 35' TDH, 3/4hp, 120-V, 1-Phase
CP-4	Circulating Pump 4 (in-line) - 35 GPM @ 35' TDH, 3/4hp, 120-V, 1-Phase
HX	Heat Exchanger (flat plate type) - 20 deg F boiler supply and return differential, 20 deg F hydronics supply and return differential, 600,000 BTUH.
X-TANK 1	Expansion Tank 1 (closed system type) - tank volume 7.1 gallon min, acceptance volume 2.2 gallon min
X-TANK 2	Expansion Tank 2 (closed system type) - tank volume 12.0 gallon min, acceptance volume 3.7 gallon min
FE	Fire extinguisher shall be 2A:10B:C and mounted 4 ft above floor.
RH-2	Radiant Heater (electric wall mount) - 1.7 kW, 240 V, 1-Phase

CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: 
FRANCIS SOLICH
Approval date: 01-21-15



BOILER ROOM PLAN

3/4"=1'-0"

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN	BY Thomas Dietsch	CHECKED Jack Wheeler
DETAILS	BY Thomas Dietsch / AC	CHECKED Jack Wheeler
QUANTITIES	BY Thomas Dietsch	CHECKED Jack Wheeler

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 02W0002
POST MILE R7.2

DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE

BOILER ROOM PLAN

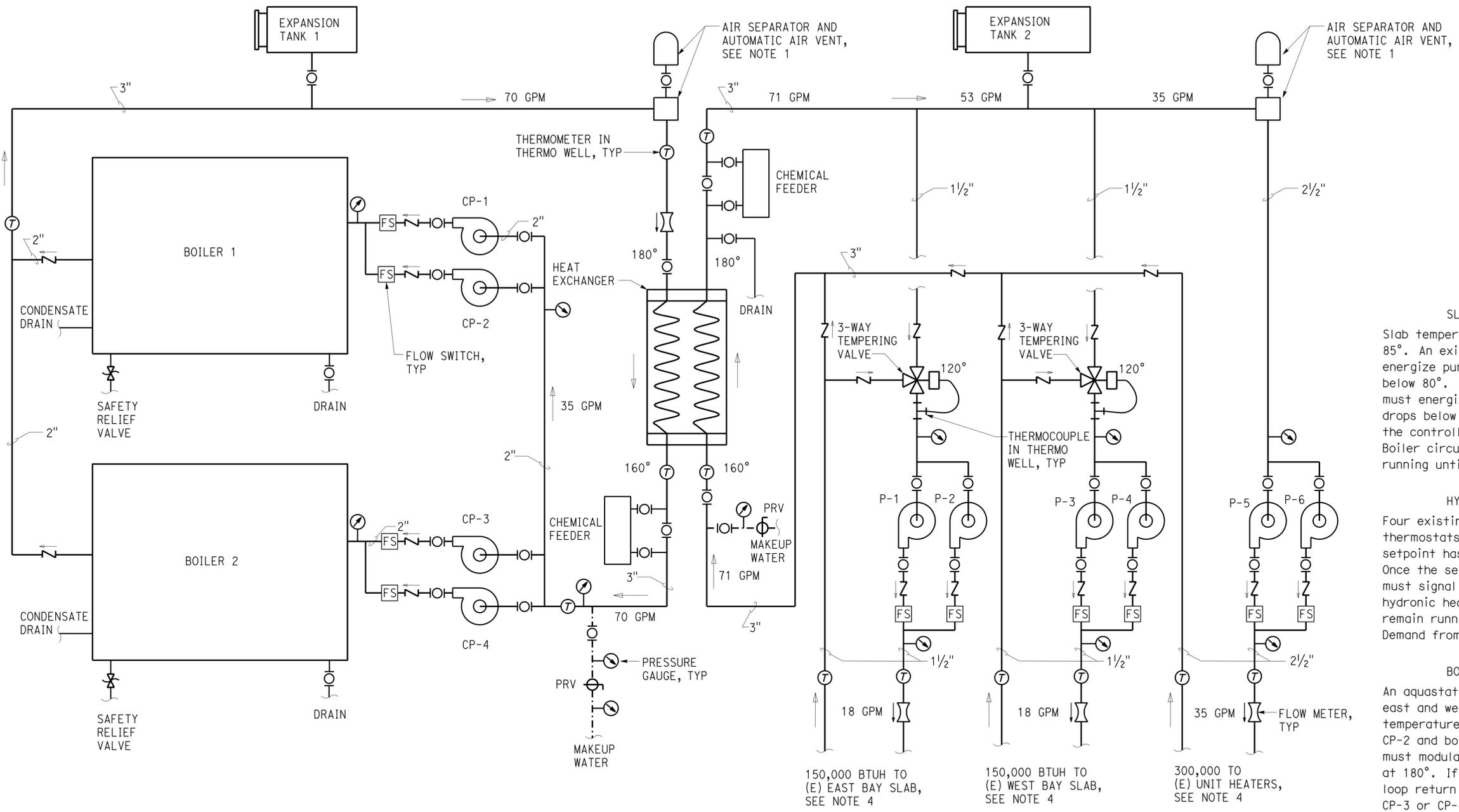
SHEET M2-1 OF

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Sis	05	R7.2	212	262
			01-22-15	REGISTERED MECHANICAL ENGINEER DATE	
			08-24-2015	PLANS APPROVAL DATE	
			APPROVED Jack Wheeler No. M 21648 Exp. 6-30-17 MECH STATE OF CALIFORNIA		
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Reviewed by: *[Signature]*
FRANCIS SOLICH
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SLAB HEATING SEQUENCE OF OPERATION

Slab temperature must be maintained at a constant 85°. An existing slab thermostat in the east bay (T1) shall energize pump P-1 or P-2 when the slab temperature drops below 80°. An existing slab thermostat in the west bay (T2) must energize pump P-3 or P-4 when the slab temperature drops below 80°. When the slab temperature reaches 85°, the controlling thermostat must signal the boiler to stop. Boiler circulating pumps and slab heating pumps must remain running until excess boiler heat has been dissipated.

HYDRONIC UNIT HEATER SEQUENCE OF OPERATION

Four existing unit heaters are controlled by two existing thermostats (T3 and T4) in the west bay. Either thermostat whose setpoint has not been reached must energize pump P-5 or P-6. Once the setpoint has been reached, the controlling thermostat must signal the boiler to stop. Boiler circulating pumps, hydronic heating pumps and hydronic unit heaters must remain running until excess boiler heat has been dissipated. Demand from either thermostat must energize pump P-5 or P-6.

BOILER LOOP SEQUENCE OF OPERATION

An aquastat must maintain the return water for the east and west slab and unit heaters at 160°. When the temperature drops below 155°, Circulating pump CP-1 or CP-2 and boiler 1 must be energized. Boiler 1 aquastat must modulate and maintain the boiler loop supply water at 180°. If after a time delay of 2 minutes the boiler loop return temperature falls to 155°, circulating pump CP-3 or CP-4 and boiler 2 must be energized. Boiler 2 aquastat must modulate and maintain the boiler loop supply water at 180°. Boilers shall operate in a lead/lag configuration, alternating with each startup.

PUMP AND CIRCULATING PUMP OPERATION

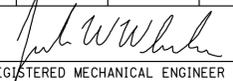
The boiler loop and hydronic loops each have redundant pumps. Only 1 pump of each pair must run at a time. Controls shall be designed to allow for automatic switch-over to the redundant pump in the event of pump failure. Pump lead must alternate with each start-up.

- NOTES**
1. Install air separator and automatic air vent at highest point of piping.
 2. Install unions on all connections to boilers, pumps, valves, meters, gauges and equipment.
 3. See M2-1 for equipment schedule.
 4. Hydronic loop must contain a 50-50 solution of glycol and water.

BOILER WATER SCHEMATIC
NO SCALE

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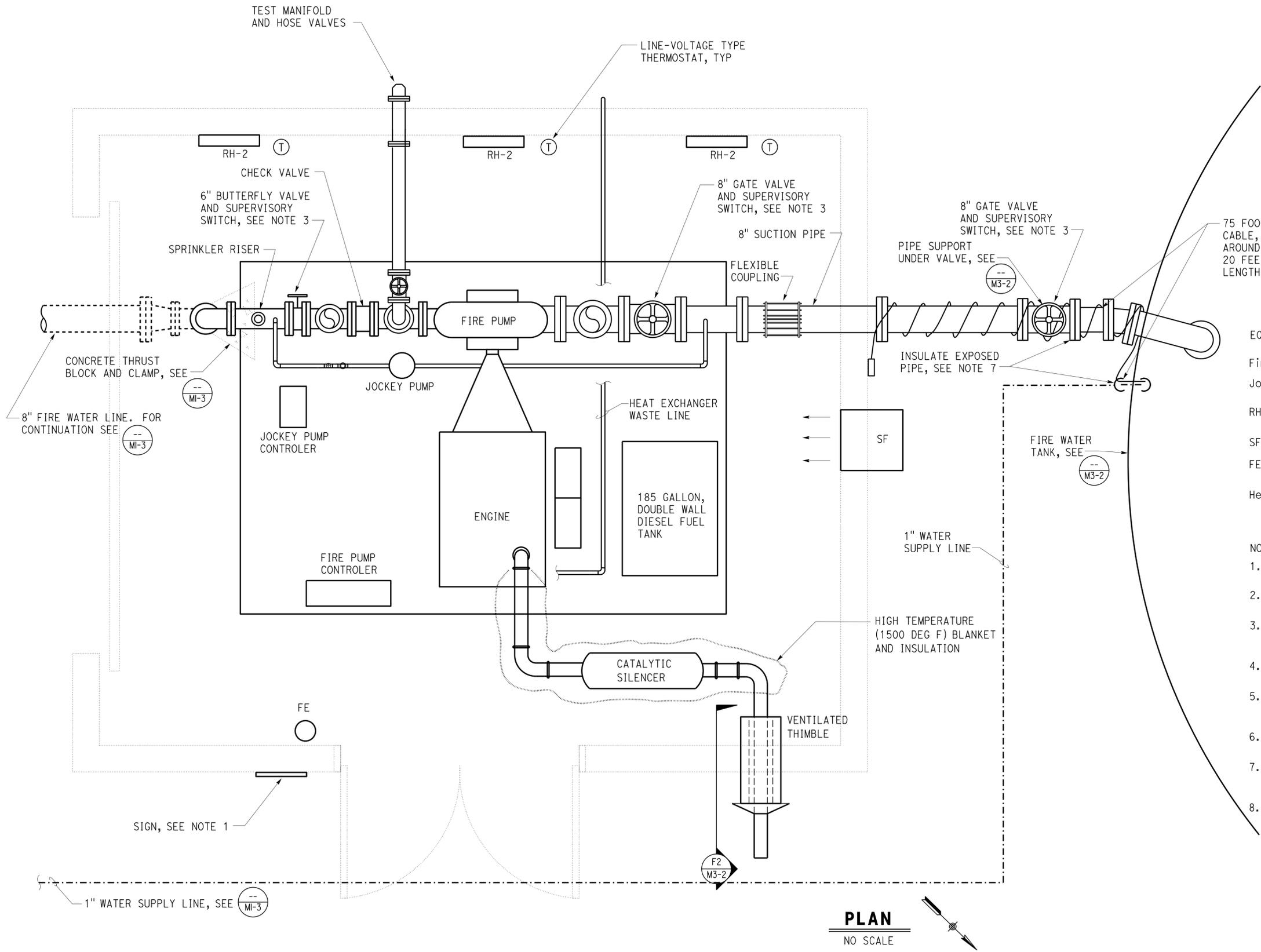
DESIGN	BY	Thomas Dietsch	CHECKED	Jack Wheeler	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 02W0002 POST MILE R7.2	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE	SHEET M2-2	
	DETAILS	BY	Thomas Dietsch / AC	CHECKED						Jack Wheeler
	QUANTITIES	BY	Thomas Dietsch	CHECKED						Jack Wheeler
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	UNIT: 3615 CONTRACT No.: 2E8004 PROJECT NUMBER & PHASE: 02000006031	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	
TAEWW Imperial - CCSC Rev. 02/13 P:\dist_02\0200000603_dunsmuir_cvetf_improvement\expedite\m2_2.dgn										

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	05	R7.2	213	262
 REGISTERED MECHANICAL ENGINEER DATE 01-22-15					
08-24-2015 PLANS APPROVAL DATE					
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Reviewed by: 
 FRANCIS SOLICH
 Approval date: 01-21-15



EQUIPMENT SCHEDULE

Fire Pump	Diesel Driven - 1,250 GPM @ 55 PSI TDH
Jockey Pump	1/2 hp, 120 V
RH-2	Radiant Heater (electric wall mount) - 1.7 kW, 240 V, 1-Phase
SF	600 cfm @ 0.5 in w.c., 1/8 hp, 240 V, 1-Phase
FE	Fire extinguisher shall be 2A:10B:C and handle mounted 4 ft above floor.
Heating Cable	Heating cable - 75 feet long. 6 watts/foot @ 40 deg F, 120 V

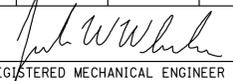
NOTES

1. Sign to read, "FIRE PUMP HOUSE" and must be mounted 72" above finish grade.
2. Install radiant heaters at height of 8 ft and angle 45 degrees downward.
3. Signal from a closed supervisory switch must be sent to annunciator panel in the scale house.
4. Thermostat must control all RH and be mounted 4 ft above floor.
5. Signals for engine running, failure to start, controller switch off and controller problem must be sent to annunciator panel in the scale house.
6. Signal for low water must be sent to the annunciator panel in the scale house.
7. Install heat cable and insulation on 8" suction pipe and valve between pump house and tank, and exposed vertical 1" water supply line at tank.
8. Supply fan must be activated and deactivated by fire pump controller.

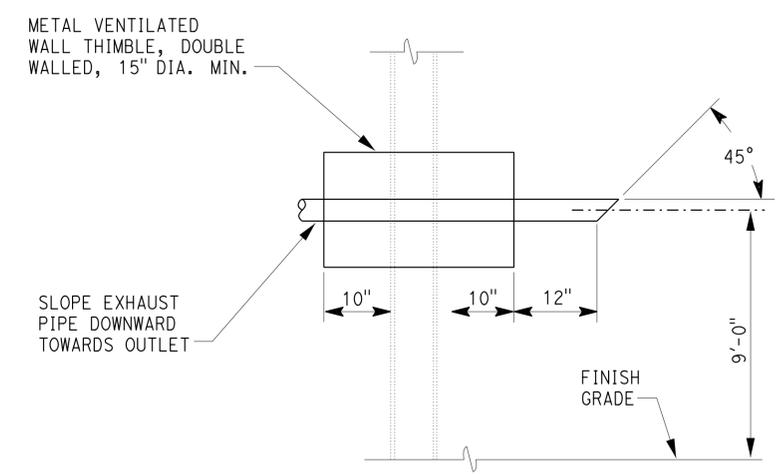
PLAN
NO SCALE

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DESIGN BY Thomas Dietsch CHECKED Jack Wheeler DETAILS BY Thomas Dietsch / AC CHECKED Jack Wheeler QUANTITIES BY Thomas Dietsch CHECKED Jack Wheeler	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 02W0002	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE FIRE PUMP HOUSE	SHEET M3-1	
			POST MILE R7.2		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
			UNIT: 3615 CONTRACT No.: 2E8004 PROJECT NUMBER & PHASE: 02000006031		DISREGARD PRINTS BEARING EARLIER REVISION DATES	09-11-13 01-15-14 04-11-14 05-14-14 08-20-14 01-22-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	05	R7.2	214	262
 REGISTERED MECHANICAL ENGINEER DATE 01-22-15					
08-24-2015 PLANS APPROVAL DATE					
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- NOTES
1. Float switch must be installed to send low water level alarm signal when water level drops to 4 inches below the automatic fill valve's "fully open" position.
 2. For fire water tank capacity and dimensions, see sheet M1-3.
 3. Backfill with native material and meet structural backfill requirements.

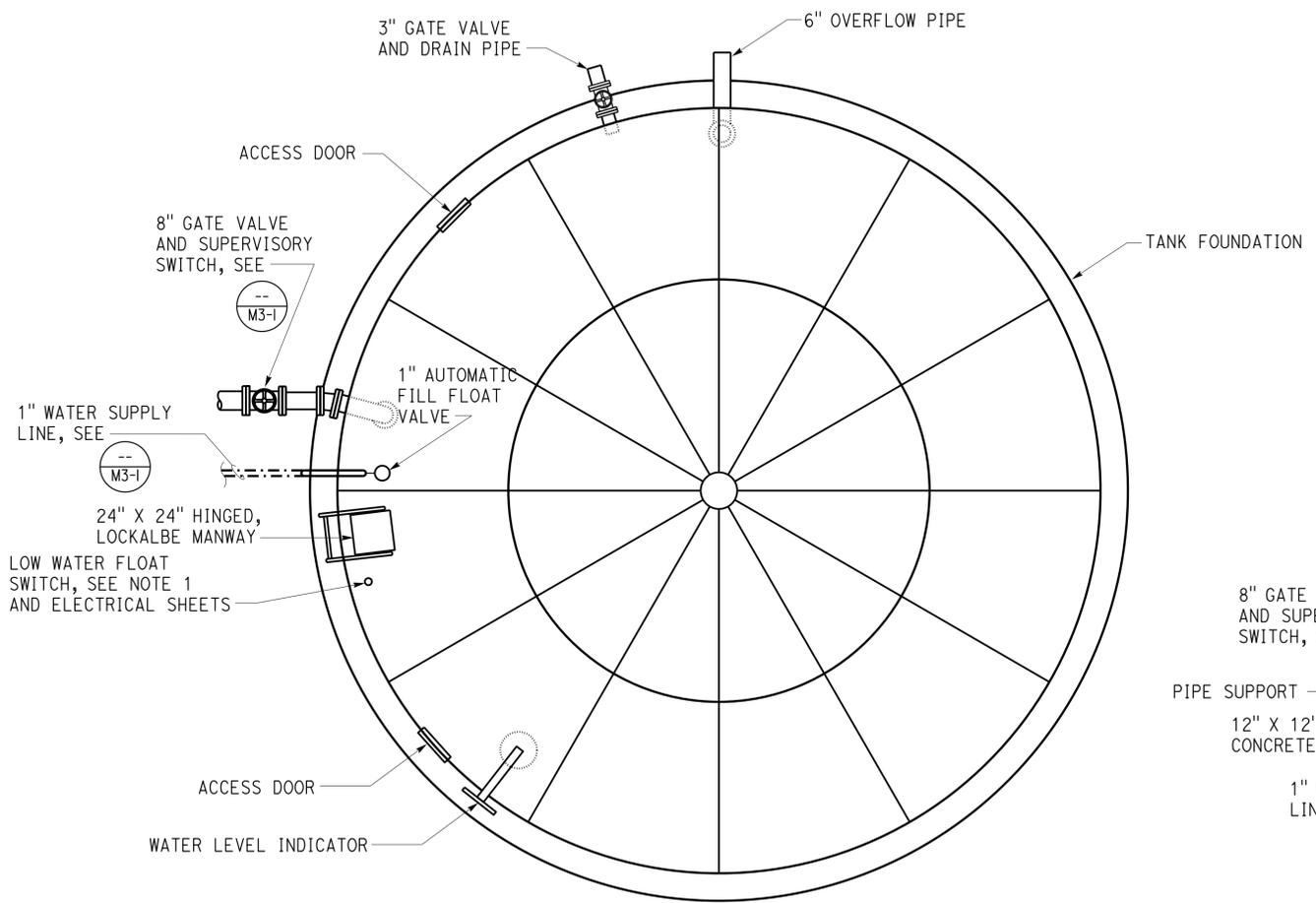


F2 SECTION
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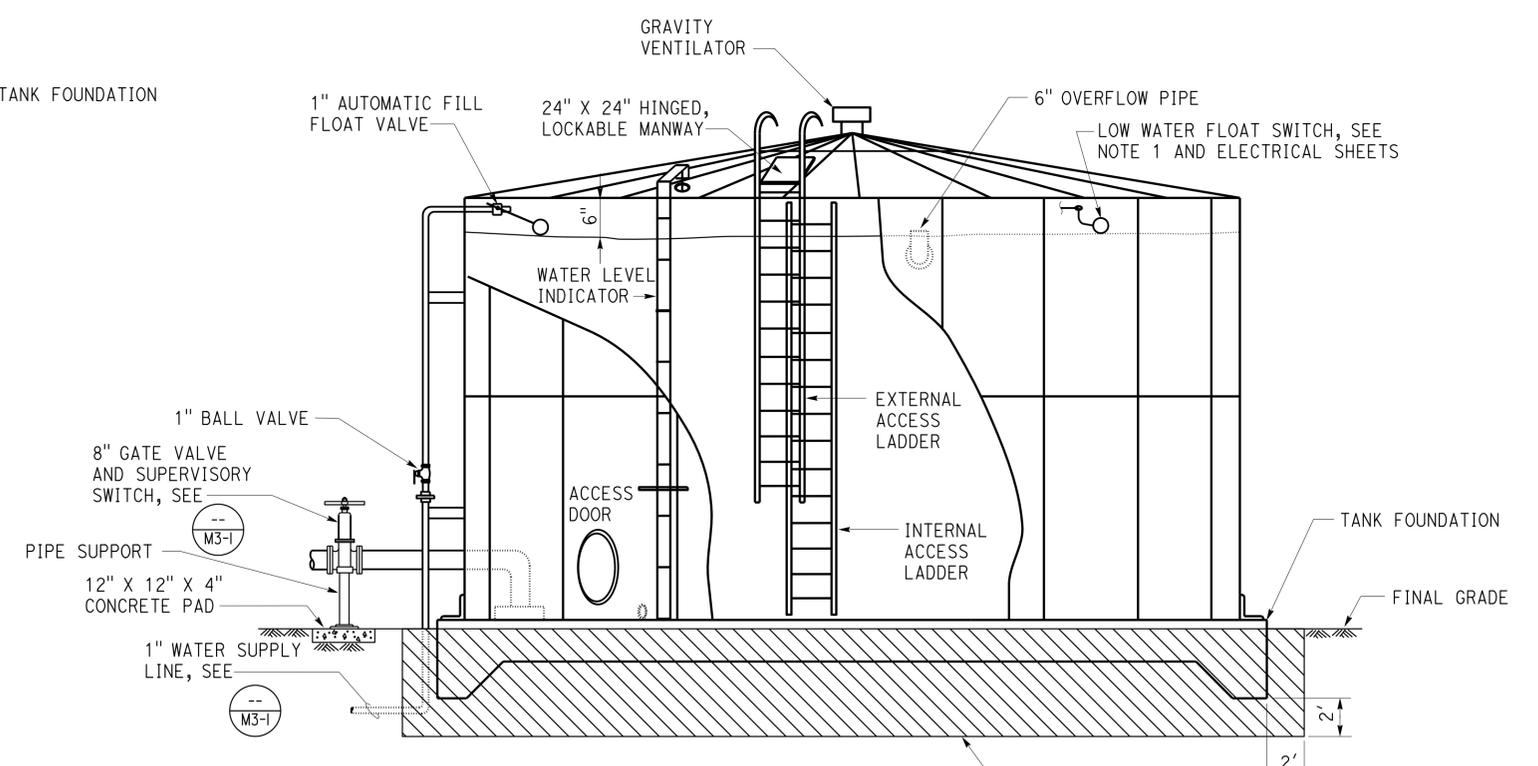
CALIFORNIA STATE FIRE MARSHAL APPROVED

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FRANCIS SOLICH
Approval date: 01-21-15



TANK PLAN
NO SCALE



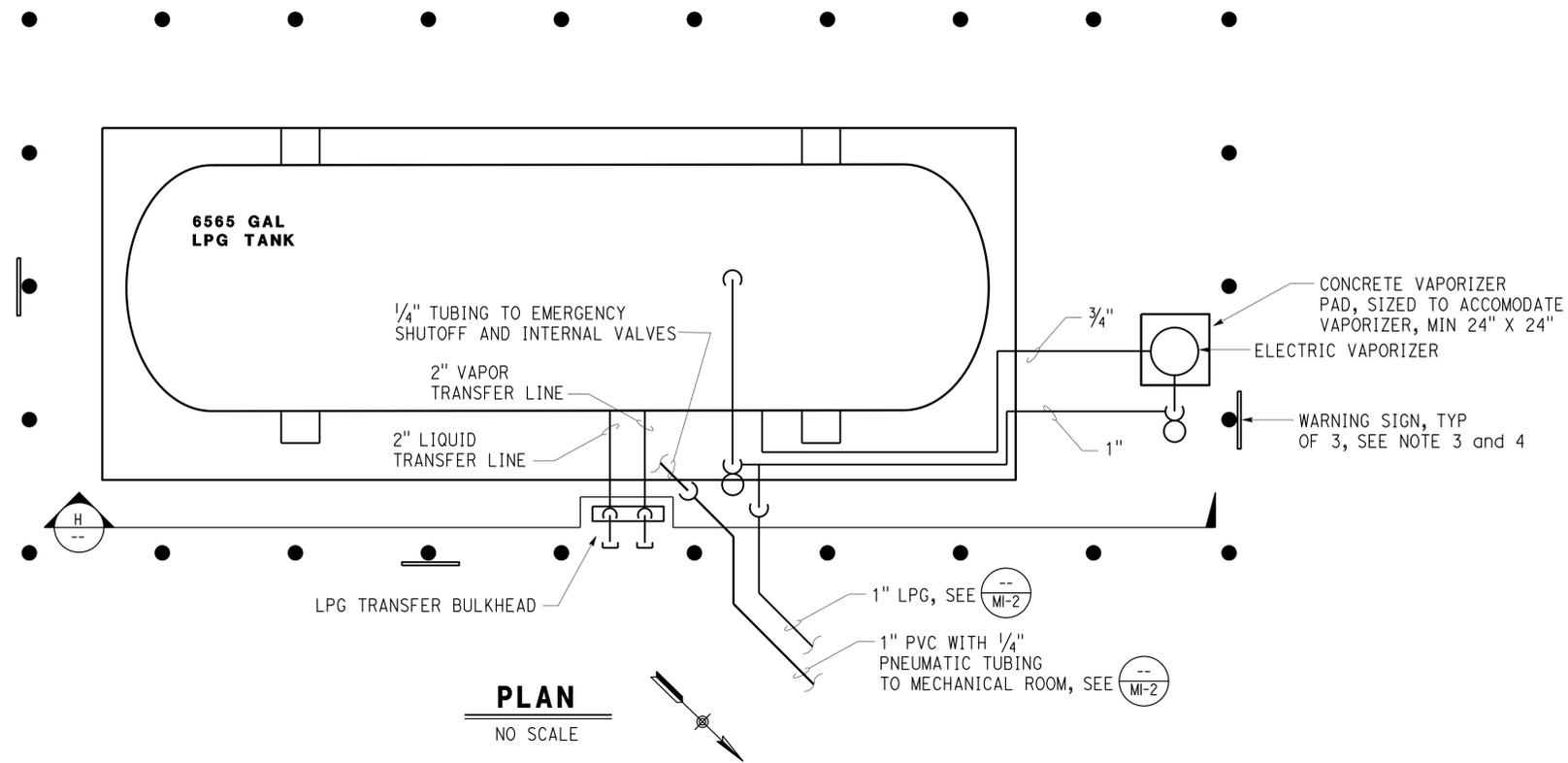
G SECTION
NO SCALE

NOTE: EQUIPMENT OFFSET FOR CLARITY

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DESIGN BY Thomas Dietsch CHECKED Jack Wheeler DETAILS BY Thomas Dietsch / AC CHECKED Jack Wheeler QUANTITIES BY Thomas Dietsch CHECKED Jack Wheeler	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 02W0002 POST MILE R7.2	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE FIRE WATER TANK	SHEET M3-2 OF
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3615 CONTRACT No.: 2E8004 PROJECT NUMBER & PHASE: 02000006031	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 09-11-13 01-15-14 04-11-14 05-14-14 08-20-14 01-22-15	SHEET OF
	TAEWW Imperial - CCSC Rev. 02/13	P:\dist_02\0200000603_dunsmuir_cvef_improvement\expedite\m3_2.dgn			

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	05	R7.2	215	262
			01-22-15	REGISTERED MECHANICAL ENGINEER DATE	
			08-24-2015	PLANS APPROVAL DATE	
					
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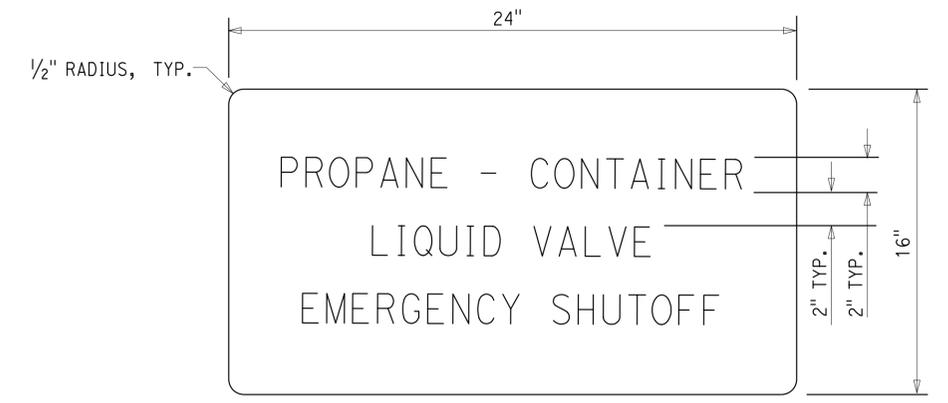
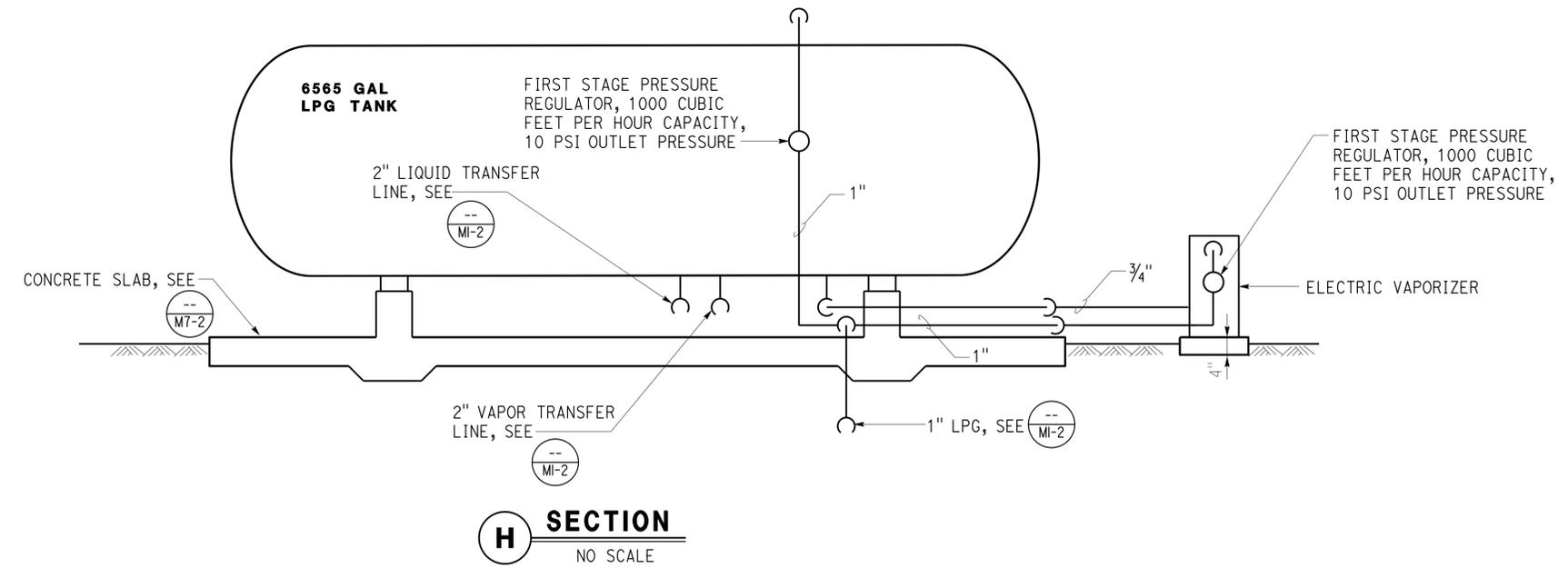
Reviewed by: 
FRANCIS SOLICH
 Approval date: 01-21-15

NOTES

- LPG tank, vaporizer and all appurtenances must comply with the latest edition of NFPA 58.
- Remote shutdown sign must be installed per NFPA 58, on a steel sign with red letters on a white background.
- Warning sign must be per special provisions.
- Signs must comply with 2013 CBC Sec. 11B-703.5, Visual Characters Requirements.

EQUIPMENT SCHEDULE

Vaporizer Electric - 1.0 MMBTU/h, 3.9, kW, 240 V - 1 Phase



H2 **REMOTE SHUTDOWN SIGN DETAIL**
NO SCALE

Note: Signs must comply with 2013 CBC Sec. 11B-703.5, Visual Characters Requirements.

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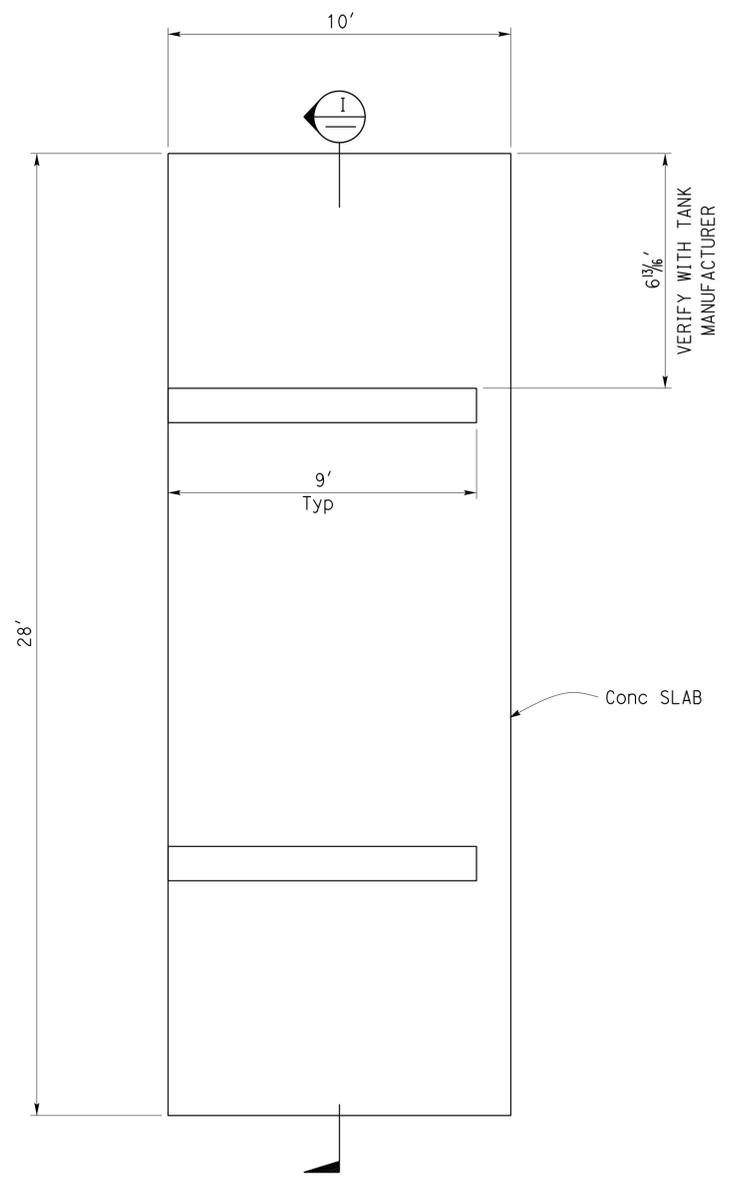
DESIGN	BY	Thomas Dietsch	CHECKED	Jack Wheeler	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	02W0002	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE LPG TANK AND VAPORIZER	SHEET	OF		
	DETAILS	BY	Thomas Dietsch / AC	CHECKED			Jack Wheeler	POST MILE		R7.2	REVISION DATES (PRELIMINARY STAGE ONLY) 09-11-13 01-15-14 04-11-14 05-11-14 08-20-14 01-22-15	SHEET M7-1	OF
	QUANTITIES	BY	Thomas Dietsch	CHECKED			Jack Wheeler	UNIT: 3615 CONTRACT No.: 2E8004 PROJECT NUMBER & PHASE: 02000006031		DISREGARD PRINTS BEARING EARLIER REVISION DATES			

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	05	R7.2	216	262
			01-22-15		
REGISTERED MECHANICAL ENGINEER			DATE		
08-24-2015			PLANS APPROVAL DATE		
					
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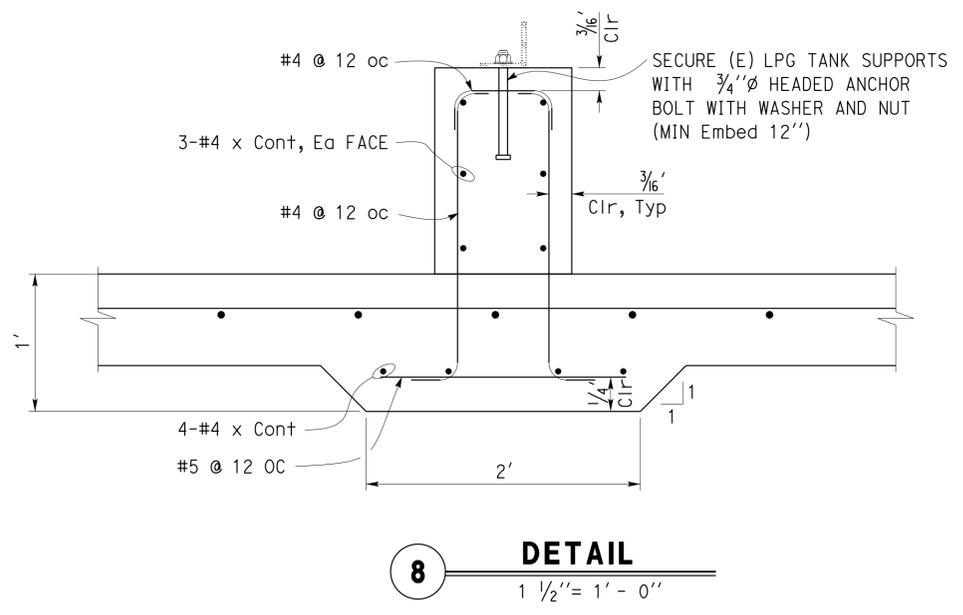
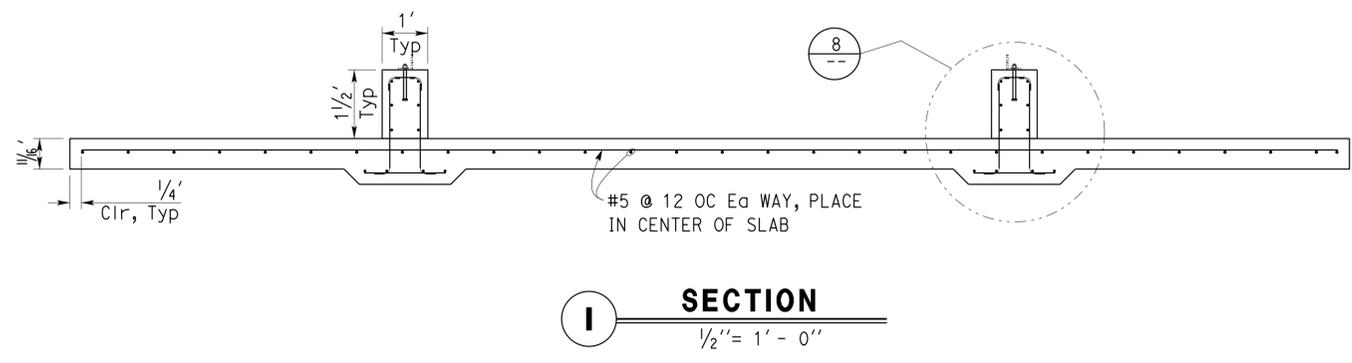
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FRANCIS SOLICH
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NOTE:
See Architectural plan for slab location.

FOUNDATION PLAN
 3/8" = 1' - 0"



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Gang Hong STRUCTURES REVIEW	DESIGN BY Thomas Dietsch	CHECKED Jack Wheeler	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 02W0002	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE	SHEET M7-2
	DETAILS BY Thomas Dietsch / AC	CHECKED Jack Wheeler			POST MILE R7.2		LPG TANK FOUNDATION PLAN
	QUANTITIES BY Thomas Dietsch	CHECKED Jack Wheeler	UNIT: 3615 CONTRACT No.: 2E8004 PROJECT NUMBER & PHASE: 02000006031	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		
TAEWW Imperial - CCSC Rev. 02/13			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	09-11-13 01-15-14 04-11-14 05-11-14 08-28-14 01-22-15		

25-AUG-2015 06:44

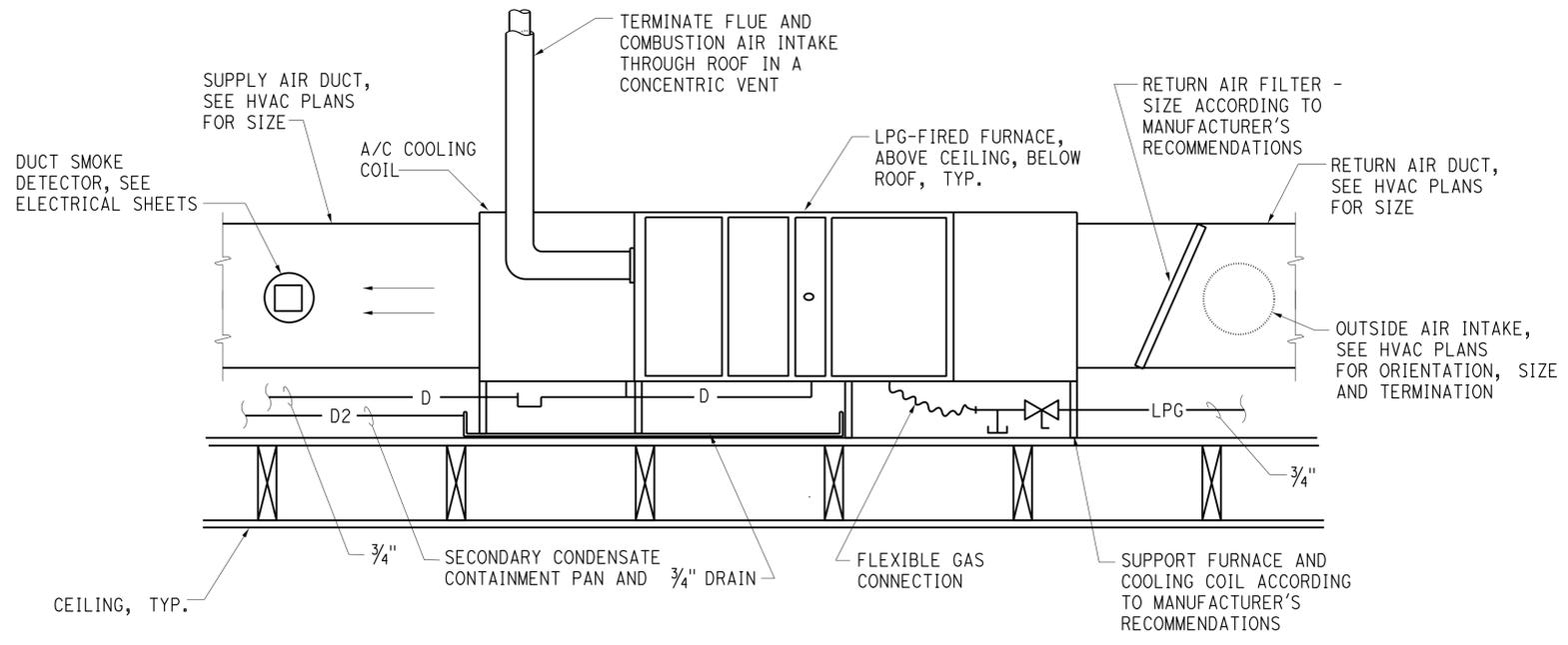
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	05	R7.2	217	262
			01-22-15	REGISTERED MECHANICAL ENGINEER DATE	
			08-24-2015	PLANS APPROVAL DATE	
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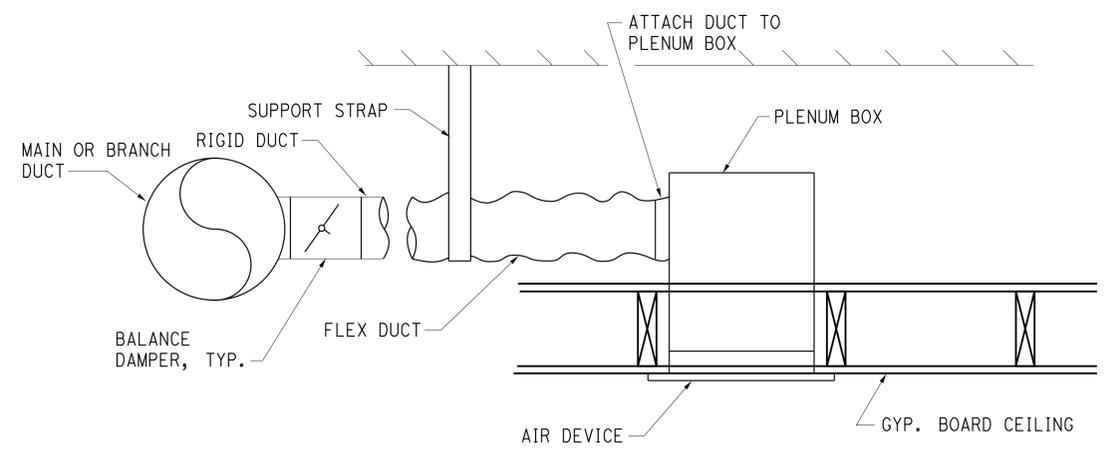
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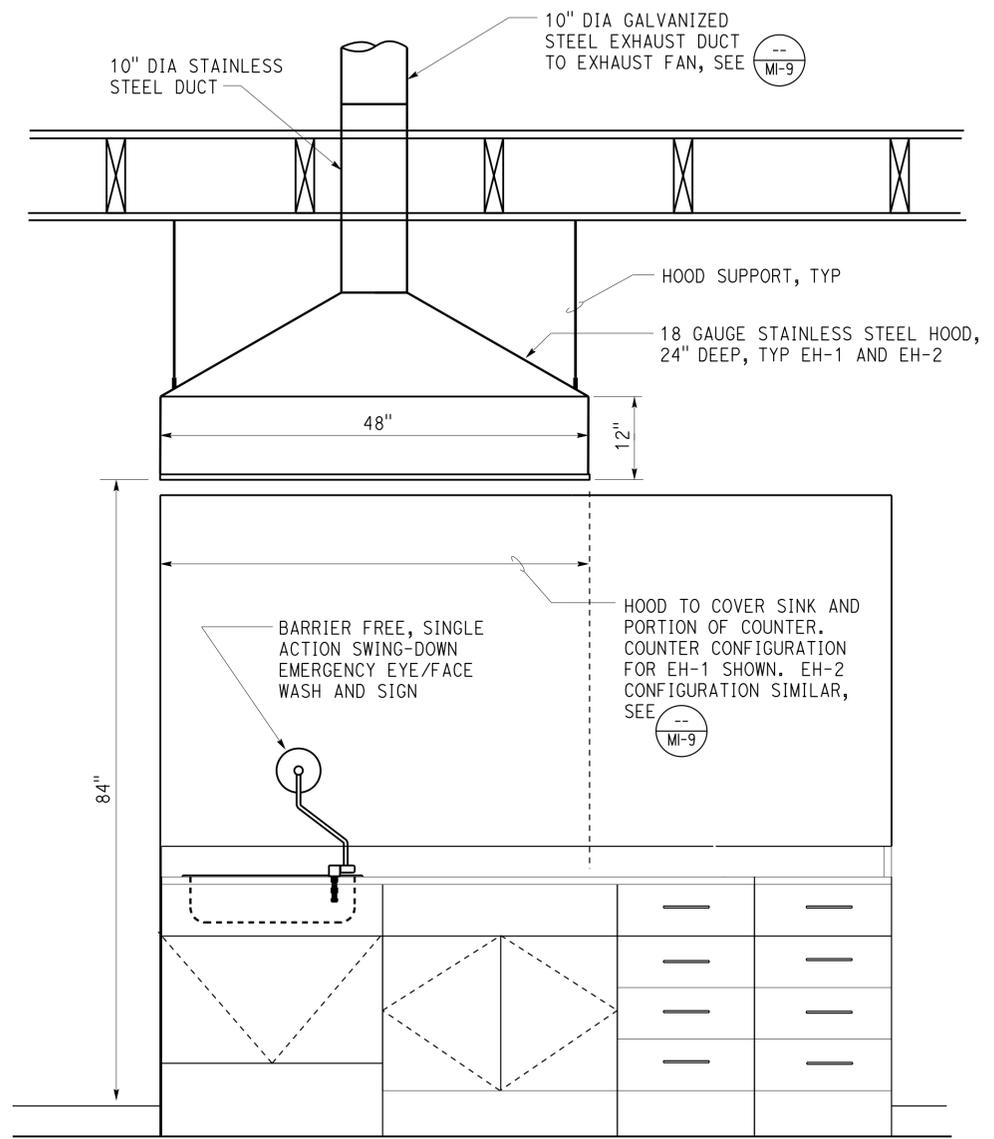
Reviewed by: FRANCIS SOLICH
Approval date: 01-21-15



9 FURNACE
NO SCALE



10 DUCT TO AIR DEVICE DETAIL
NO SCALE

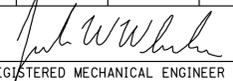


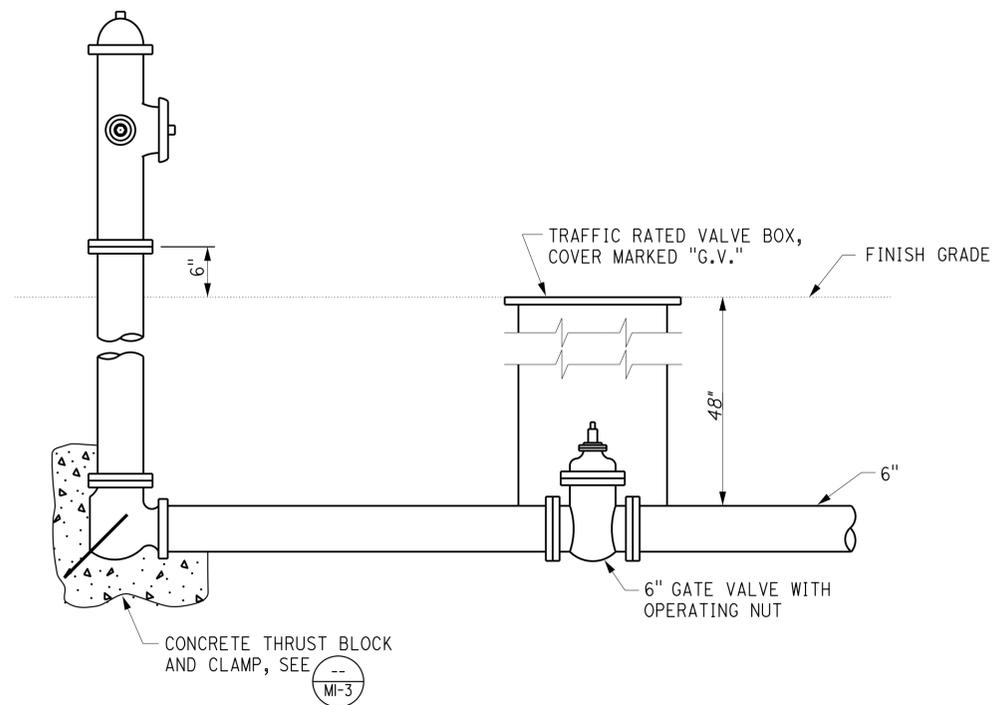
11 EXHAUST HOOD
NO SCALE

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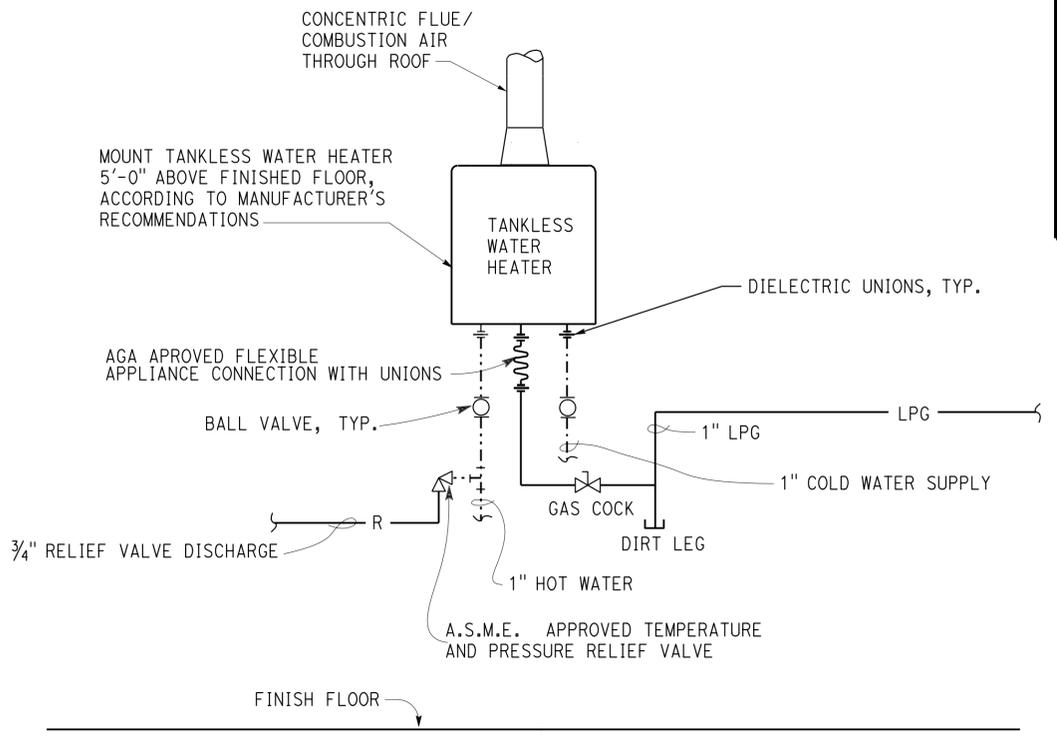
DESIGN BY Thomas Dietsch CHECKED Jack Wheeler DETAILS BY Thomas Dietsch / AC CHECKED Jack Wheeler QUANTITIES BY Thomas Dietsch CHECKED Jack Wheeler	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 02W0002 POST MILE R7.2	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE DETAILS I	SHEET M7-3 OF
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3615 CONTRACT No.: 2E8004 PROJECT NUMBER & PHASE: 0200006031	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 09-11-13 01-15-14 04-11-14 05-11-14 08-20-14 01-22-15	SHEET OF
	TAEWW Imperial - CCSC Rev. 02/13	P:\dist_02\020000603_dunsmuir_cvef_improvement\expedite\m7_3.dgn			

25-AUG-2015 06:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	05	R7.2	218	262
 REGISTERED MECHANICAL ENGINEER DATE 01-22-15					
08-24-2015 PLANS APPROVAL DATE					
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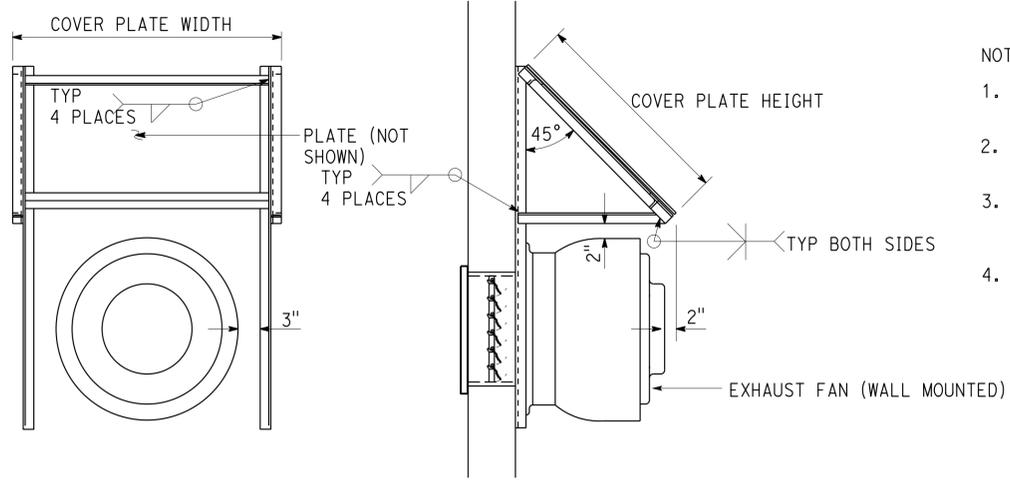


12 FIRE HYDRANT DETAIL
NO SCALE



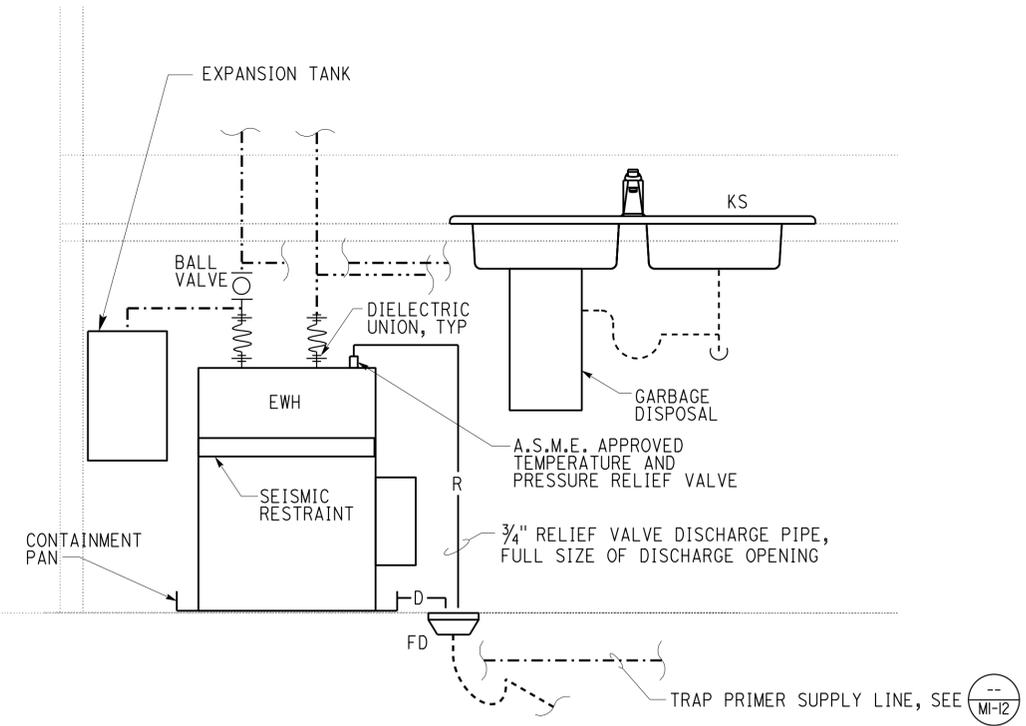
13 TANKLESS WATER HEATER (LPG)
NO SCALE

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 FRANCIS SOLICH
 Approval date: 01-21-15



- NOTES FOR SNOW GUARD
1. Snow guard size must be suitable for exhaust fan installed.
 2. Frame must be galvanized steel angle, 2" X 2" X 1/4", all welded construction.
 3. Plate must be galvanized steel, 12 gauge, bolted to frame with 3/8" bolts and locknuts within 2" of each corner and on 6" centers, min.
 4. Frame must be attached to the wall with 3/8" lag bolts in at least 4 places per side.

14 SNOW GUARD DETAIL
NO SCALE



15 ELECTRIC WATER HEATER
NO SCALE

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DESIGN	BY	Thomas Dietsch	CHECKED	Jack Wheeler	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	02W0002	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE DETAILS 2	SHEET	M7-4		
	DETAILS	BY	Thomas Dietsch / AC	CHECKED			Jack Wheeler	POST MILE		R7.2	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
	QUANTITIES	BY	Thomas Dietsch	CHECKED			Jack Wheeler	UNIT: 3615 CONTRACT No.: 2E8004 PROJECT NUMBER & PHASE: 02000006031		DISREGARD PRINTS BEARING EARLIER REVISION DATES	09-11-13 01-15-14 04-11-14 05-11-14 08-20-14 01-22-15		

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

TAEMWW Imperial - CCSC Rev. 02/13

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GRAPHIC SYMBOLS FOR ELECTRICAL WIRING AND LAYOUT DIAGRAMS

SYMBOL	DESCRIPTION
	POLE-TOP ELECTROLIER
	POLE-ARM ELECTROLIER
CEILING	WALL
	SURFACE FLUORESCENT, METAL HALIDE, LED, OR SODIUM VAPOR FIXTURE
	RECESSED FLUORESCENT, METAL HALIDE, LED, OR SODIUM VAPOR FIXTURE
	EXIT LIGHT
	SURFACE OR PENDANT INDIVIDUAL FLUORESCENT OR LED FIXTURE
	RECESSED INDIVIDUAL FLUORESCENT OR LED FIXTURE
	SURFACE OR PENDANT CONTINUOUS ROW FLUORESCENT OR LED FIXTURES
	NOTE: A LOWER CASE LETTER NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES THAT FIXTURE IS CONTROLLED BY A SIMILARLY MARKED SWITCH, AN ALPHA-NUMERIC SYMBOL NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES FIXTURE TYPE, (I=INCANDESCENT, F=FLUORESCENT, MH=METAL HALIDE, H=HIGH PRESSURE SODIUM VAPOR, L=LED), DESIGN TYPE, NUMBER OF LAMPS AND WATTAGE. EXAMPLE : (4) F2-2x32 <div style="margin-left: 20px;"> </div>
	COMBINATION EXIT/EMERGENCY LIGHT FIXTURE MOUNTING HEIGHT: +8'-0" AFF
	EMERGENCY LIGHT FIXTURE MOUNTING HEIGHT: +8'-0" AFF
	BLANK OUTLET
	SINGLE RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET (WITH GFCI)
	DUPLEX RECEPTACLE OUTLET, WEATHERPROOF (WITH GFCI)
	SINGLE, SPECIAL PURPOSE RECEPTACLE OUTLET
	DUPLEX, SPECIAL PURPOSE RECEPTACLE OUTLET
	RANGE OUTLET
	CLOCK HANGER RECEPTACLE
	FAN HANGER RECEPTACLE
	FLOOR SINGLE RECEPTACLE OUTLET
	FLOOR DUPLEX RECEPTACLE OUTLET
	FLOOR SPECIAL PURPOSE OUTLET
	FLOOR RADIO OUTLET
	FLOOR TELEPHONE OUTLET
	MULTI-FLOOR OUTLET, 2 OR MORE GANG
	MULTI-OUTLET ASSEMBLY
	SWITCH AND SINGLE RECEPTACLE
	SWITCH AND DUPLEX RECEPTACLE
	RADIO OUTLET
	COMMUNICATION OUTLET
	SOUND SYSTEM LOUD SPEAKER OUTLET
	RADIO OUTLET
	TELEVISION OUTLET
	MICROPHONE OUTLET
	THERMOSTAT

SYMBOL	DESCRIPTION
S	SINGLE-POLE SWITCH
S2	DOUBLE-POLE SWITCH
S3	THREE-WAY SWITCH
S4	FOUR-WAY SWITCH
SD	AUTOMATIC DOOR
SK	KEY OPERATED SWITCH
SP	SWITCH AND PILOT LIGHT
SMC	MOMENTARY CONTACT SWITCH
SR	REMOTE CONTROL SWITCH
SWP	WEATHERPROOF SWITCH
SF	FAN SWITCH
SL	LIGHT SWITCH
SH	HEATER SWITCH
SVS	VARIABLE SPEED MOTOR CONTROL SWITCH
SCHLF	TWO TIMER SWITCHES, ONE SWITCH FOR LIGHT AND FAN AND ONE SWITCH FOR HEAT LAMP
S ⁰ ₁	OCCUPANCY SENSOR WALL SWITCH, SINGLE LEVEL
S ⁰ ₂	OCCUPANCY SENSOR WALL SWITCH, BILEVEL
SM	MOTION SENSOR SWITCH
ST	MANUAL MOTOR STARTING SWITCH, THERMAL OVERLOAD TYPE
SHP	MANUAL MOTOR STARTING SWITCH, WITHOUT OVERLOAD ELEMENT
TS	TIMER SWITCH
	PUSHBUTTON
	PUSHBUTTON STATION, NC, WITH LOCKING DEVICE FOR OPEN
	PUSHBUTTON STATION MOTOR CONTROL
	BUZZER
	BELL
	SOLENOID VALVE
	CONTROL RELAY
	FLOW SWITCH
	PHOTOELECTRIC UNIT
	HAND DRYER NOZZLE
	HAND DRYER
	FLUSH-MOUNTED PANELBOARD AND CABINET
	SURFACE-MOUNTED PANELBOARD AND CABINET
	LIGHTING PANEL
	POWER PANEL
	COMBINATION LIGHTING AND POWER
	MOTOR CONTROLLER
	DISCONNECT SWITCH
—	CONDUIT CONCEALED IN CEILING OR WALL
----	CONDUIT CONCEALED IN FLOOR
-x-x-	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

SYMBOL	DESCRIPTION
—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
—PVC—	CONDUIT, POLYVINYL CHLORIDE, UNDERGROUND
	CONDUIT, FLEXIBLE
	CONDUIT, TURN UP
	CONDUIT, TURN DOWN
	CONDUIT SEAL, EXPLOSION-PROOF
	CONDUIT, EXPANSION JOINT
	ADAPTER, ONE TYPE CONDUIT TO ANOTHER
○	POLE
	OCCUPANCY SENSOR
	OCCUPANCY SENSOR POWER PACK
	AUXILIARY POWER PACK
	GLASS BREAK DISCRIMINATOR
	MAGNETIC CONTACT SWITCH-PEDESTRIAN DOOR
	MAGNETIC CONTACT SWITCH-VEHICLE DOOR
	SUPERVISORY SWITCH
	KEYPAD FOR ALARM SYSTEM
	COMBINATION DETECTOR (MICROWAVE/PASSIVE INFRARED)
	PULL BOX-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)
	PULL BOX (TRAFFIC-RATED)-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)
	COMBINATION HEAT, LIGHT, AND FAN UNIT
	SECTION/ELEVATION LETTER
	SHEET NUMBER
	DETAIL NUMBER
	SHEET NUMBER

REMODEL WORK

SYMBOL	DESCRIPTION
	EXISTING FLUORESCENT FIXTURE-TO REMAIN
	EXISTING FLUORESCENT FIXTURE-REMOVE
	EXISTING INCANDESCENT FIXTURE-TO REMAIN
	EXISTING INCANDESCENT FIXTURE-REMOVE
	EXISTING OUTLET-TO REMAIN
	EXISTING RECEPTACLE OUTLET-TO REMAIN
	EXISTING RECEPTACLE OUTLET-REMOVE
-E---E-	EXISTING CONDUIT AND CONDUCTORS-TO REMAIN UNLESS OTHERWISE NOTED
-x---x-	EXISTING CONDUIT AND CONDUCTORS-REMOVE
S	EXISTING SWITCH-TO REMAIN
X	EXISTING SWITCH-REMOVE
	EXISTING JUNCTION BOX-TO REMAIN
	EXISTING JUNCTION BOX-REMOVE

GRAPHIC SYMBOLS FOR ELECTRICAL DIAGRAMS

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER, SINGLE-POLE
	CIRCUIT BREAKER, DOUBLE-POLE
	CIRCUIT BREAKER, THREE-POLE
GFCI	CIRCUIT BREAKER, WITH GROUND FAULT CIRCUIT INTERRUPTER
	CIRCUIT BREAKER, SINGLE-POLE, SWITCHED NEUTRAL
	CONTACT, NORMALLY OPEN
	CONTACT, NORMALLY CLOSED
	CONTACT, NORMALLY CLOSED, TIME DELAY CLOSING ON DE-ENERGIZING
	CONTACT, NORMALLY OPEN, TIME DELAY OPENING ON DE-ENERGIZING
	CONTACT, NORMALLY OPEN, TIME DELAY CLOSING ON ENERGIZING
	CONTACT, NORMALLY CLOSED, TIME DELAY OPENING ON ENERGIZING
	CONTACT, SINGLE-POLE, DOUBLE-THROW
	OPERATING COIL
	LIQUID LEVEL ACTUATED SWITCH, NORMALLY CLOSED
	LIQUID LEVEL ACTUATED SWITCH, NORMALLY OPEN
	PRESSURE ACTUATED SWITCH, NORMALLY CLOSED
	PRESSURE ACTUATED SWITCH, NORMALLY OPEN
	FLOW ACTUATED SWITCH, NORMALLY CLOSED
	FLOW ACTUATED SWITCH, NORMALLY OPEN
	TEMPERATURE ACTUATED SWITCH, NORMALLY CLOSED
	TEMPERATURE ACTUATED SWITCH, NORMALLY OPEN
	LIMIT SWITCH, NORMALLY CLOSED
	LIMIT SWITCH, NORMALLY OPEN
	PUSHBUTTON SWITCH, NORMALLY CLOSED
	PUSHBUTTON SWITCH, NORMALLY OPEN
	SWITCH, SINGLE-POLE
	SWITCH, SINGLE-POLE, DOUBLE-THROW
	SWITCH, DOUBLE-POLE
	SWITCH, DOUBLE-POLE, DOUBLE-THROW
	SWITCH, SINGLE-POLE, 3-POSITION
	THERMAL OVERLOAD
	FUSE
	RESISTOR
	VARIABLE RESISTOR
	TRANSFORMER WINDING
	GROUNDING ELECTRODE
	ENCLOSURE BOND
	PILOT LIGHT (A=AMBER, G=GREEN, R=RED)
	INDICATING LIGHT (A=AMBER, G=GREEN, R=RED)
	GENERATOR
	MOTOR
	FAN MOTOR

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	219	262

Tommy F. Lee 01-26-15
 REGISTERED ELECTRICAL ENGINEER DATE

08-24-15
 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
 Tommy F. Lee
 No. E 18534
 Exp. 12-31-16
 ELEC
 STATE OF CALIFORNIA

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: 01-21-15

DESIGN BY Tommy F. Lee	CHECKED Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE No. 02W0002	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE LEGEND	SHEET EEO-1	
DETAILS BY Dali Zhou	CHECKED Tommy F. Lee		DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN		POST MILE R7.2	OF
QUANTITIES BY Tommy F. Lee	CHECKED Beatrice Bindu		UNIT: 3597 CONTRACT No.: 02-2E8004 PROJECT NUMBER & PHASE: 02000006031		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

TAEWW Imperial - CCSC Rev. 02/13

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ABBREVIATIONS

A		F	
A/C	AIR CONDITIONING UNIT	F	FUSE
ACS	AIR COMPRESSOR STARTER	FA	AC FUSE
AFCI	ARC FAULT CIRCUIT INTERRUPTER	FD	DC FUSE
AI	ANALOG INPUT	FG	FINISH GRADE
AL	ALARM LIGHT	FL	FAILURE LIGHT
AO	ANALOG OUTPUT	FLA	FLASHER
Approx	APPROXIMATE	Flex	FLEXIBLE CONDUIT
AR	ALARM RESET	FLS	FLOW SWITCH
ATS	AUTOMATIC TRANSFER SWITCH	FO	FIBER OPTIC
AVC	AIR VOLUME CONTROLLER	FR	FAILURE RESET or FLAME RESISTANT
		FS	FLOAT SWITCH
B		G	
BC	BARE COPPER	Galv	GALVANIZED
BD	BUILDING DISCONNECT	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
BP	BOOSTER PUMP		
Brk	BREAKER		
C		I	
Cat	CATEGORY	IC	IRRIGATION CONTROLLER
CB	CIRCUIT BREAKER	ICC	IRRIGATION CONTROLLER CABINET
CC	CENTER CHANNEL LIGHT	IL	INDICATING LIGHT
CD	CONTROL DISCONNECT	IR	INDUCTION RELAY
Ckt	CIRCUIT	ISR	INTRINSICALLY SAFE RELAY
CL	CHAIN LINK		
CM	CENTER MARGIN LIGHT	J	
COMM	COMMUNICATION	JB	JUNCTION BOX
Conc	CONCRETE	L	
Cont	CONTINUED or CONTINUOUS	L	LIGHT or LENGTH
CPU	CENTRAL PROCESSING UNIT	LC	LIGHTING CONTACTOR
CR	CONTROL RELAY	LCD	LIQUID CRYSTAL DISPLAY
CS	CURRENT SWITCH	LCP	LIGHTING CONTROL PANEL
CT	CURRENT TRANSFORMER	LD	LIGHT DISCONNECT
D		LDCI	LEAK DETECTOR CIRCUIT INTERRUPTER
DI	DIGITAL INPUT	LL	LIQUID LEVEL RELAY
DO	DIGITAL OUTPUT	LLC	LIQUID LEVEL CONTROLLER
DP	DUPLEX PLUG RECEPTACLE	LP	LIGHT PANEL
DS	DOOR SWITCH	LPS	LOW PRESSURE SODIUM
E		LS	LIGHT SWITCH
(E)	EXISTING	LT	LIGHT TRANSFORMER
EF	EXHAUST FAN	LTO	LIGHT TRANSFORMER OVERLOAD
EMS	EXTINGUISHABLE MESSAGE SIGN	LTPD	LIGHT TRANSFORMER PRIMARY DISCONNECT
ENET	ETHERNET NETWORK	LTSD	LIGHT TRANSFORMER SECONDARY DISCONNECT

M		N	
MB	MAIN BREAKER	(N)	NEW
MC	METALLIC CONDUIT	Nav	NAVIGATIONAL LIGHTS
MCP	MOTOR CIRCUIT PROTECTOR	NB	NEUTRAL BUS or NORTHBOUND
MCC	MOTOR CONTROL CENTER	NC	NORMALLY CLOSED
MD	MOTOR DISCONNECT	NO	NORMALLY OPEN
MH	MOUNTING HEIGHT	NSW	NEUTRAL SWITCHING BREAKER
Misc	MISCELLANEOUS		
MR	MASTER RELAY/STARTER	O	
MS	MOTOR SAVER	O/C	ON CENTER
MSB	MAIN SWITCHBOARD	OIT	OPERATOR INTERFACE TERMINAL
MT	EMPTY CONDUIT	OL	OVERLOAD
MTS	MANUAL TRANSFER SWITCH	P	
		P	POLE (CIRCUIT BREAKER)
		PCP	PUMP CONTROL PANEL
		PD	PUMP DISCONNECT
		PFR	PHASE FAILURE RELAY
		PFRD	PHASE FAILURE RELAY DISCONNECT
		PL	PILOT LIGHT
		PLC	PROGRAMMABLE LOGIC CONTROLLER
		PS	POWER SUPPLY or PRESSURE SWITCH
		PTS	POWER TRANSFER SWITCH
		PV	PHOTOVOLTAIC
		R	
		RD	RECEPTACLE DISCONNECT
		Req'd	REQUIRED
		RES	RESISTOR
		RIO	REMOTE INPUT/OUTPUT
		RLM	REDUNDANCY LINK MODULE
		Rm	ROOM
		RTB	RADIO TERMINAL BOARD

S		T	
S	STARTER COIL	TB	TERMINAL BLOCK
Sch	SCHEDULE	TC	TELEPHONE CABLE
SD	SERVICE DISCONNECT	TDR	TIME DELAY RELAY
Sec	SECONDS	TGLS	TOGGLE SWITCH
SFR	SEAL FAILURE RELAY	TM	TIME METER
SL	SUMP LIGHT	TS	TIMER SWITCH or TEMPERATURE SWITCH
SPR	STANDBY POWER RECEPTACLE	TSW	TEST SWITCH
Sq	SQUARE	TTB	TELEPHONE TERMINAL BOARD
SS	SELECTOR SWITCH	TWH	TANKLESS WATER HEATER
ST	STARTER		
SST	STAINLESS STEEL	U	
S+d	STANDARD	UPS	UNINTERRUPTIBLE POWER SUPPLY
SV	SOLENOID VALVE		
SWIM	SLOW WEIGH-IN-MOTION	V	
		VFD	VARIABLE FREQUENCY DRIVE
		W	
		WIM	WEIGH-IN-MOTION
		WLS	WATER LEVEL SWITCH
		WP	WEATHERPROOF
		WSMS	WEIGH STATION MESSAGE SIGN
		X	
		XFMR	TRANSFORMER

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: 01-21-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	220	262

Tommy F. Lee 01-26-15
 REGISTERED ELECTRICAL ENGINEER DATE

08-24-15
 PLANS APPROVAL DATE

Tommy F. Lee
 No. E 18534
 Exp. 12-31-16
 ELEC
 STATE OF CALIFORNIA

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PROJECT NOTES

1. Separate grounded (Neutral) conductor must be used for each 120-volt circuit.
2. Homeruns to Panelboards must be installed as shown on the plans. Homeruns must not be combined.
3. A single insulated equipment grounding conductor, sized as required, must be installed in each conduit run.

STANDARD NOTES

- AB Abandon. If applied to conduit, remove conductors.
- BC Install pull box in existing conduit run.
- CB Install conduit into existing pull box.
- CC Connect new and existing conduit. Remove existing conductors and install conductors as indicated.
- CF Conduit to remain for future use. Remove conductors, install pull rope and plug.
- FA Remove foundation above grade and abandon foundation below grade.
- RL Relocate equipment.
- RLD Relocated equipment.
- SC Splice new to existing conductors.

STANDARD PLANS

Dated 2010

- A10A
- RSP A10B
- RSP ES-1A

SYMBOLS

- ∠ ANGLE
- ° DEGREES
- Δ DELTA
- Ω OHM(S)
- ± PLUS OR MINUS

DESIGN	BY	Tommy F. Lee	CHECKED	Beatrice Bindu	BRIDGE No. 02W0002	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE	SHEET EEO-2	
	DETAILS	BY	Dali Zhou	CHECKED				Tommy F. Lee
	QUANTITIES	BY	Tommy F. Lee	CHECKED				Beatrice Bindu
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION					DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE R7.2	NOTES AND ABBREVIATIONS	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	UNIT: 3597 CONTRACT No.: 02-2E8004 PROJECT NUMBER & PHASE: 0200006031	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)
TAEWW Imperial - CCSC Rev. 02/13					0	3-28-13	5-16-14	1-26-15

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CERTIFICATE OF COMPLIANCE (Page 1 of 4) OLTG-1C

Project Name: DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE	Date: 1/13/14
Project Address: DUNSMUIR, CA	Total Hardscape Illuminated Area: 5684 sq ft

General Information
 Phase of Construction: New Construction Addition Alteration

Documentation Author's Declaration Statement
 • I Certify that this Certificate of Compliance documentation is accurate and complete.

Name: **TOMMY F. LEE** Signature: *Tommy F. Lee*

Company: **CALIFORNIA DEPARTMENT OF TRANSPORTATION** Date: **11/7/12**

Address: **1801 30TH STREET, MS9-3/11H** If applicable: CEA #, CEPE #

City/State/Zip: **SACRAMENTO, CA 95816** Phone: **(916) 227-8376**

Principal Lighting Designer's Declaration Statement
 • I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the lighting design.
 • This Certificate of Compliance identifies the lighting features and performance specification required for compliance with Title 24, Pages 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: **TOMMY F. LEE** Signature: *Tommy F. Lee*

Company: **CALIFORNIA DEPARTMENT OF TRANSPORTATION** Phone: **(916) 227-8376**

Address: **1801 30TH STREET, MS9-3/11H** License #: **E 18534**

City/State/Zip: **SACRAMENTO, CA 95816** Date: **EXP 12-31-16**

Principal Lighting Designer's Declaration
 I Certify that this Certificate of Compliance documentation is accurate and complete, and accounts for all outdoor lighting power, including building mounted, pole mounted, as well as all other outdoor lighting designed for the site, and that Additional Lighting Power Allowances for Specific Applications or Additional Lighting Power Allowances for Ordinance Requirements have not been counted more than one time for the same area, in Accordance with Section 147 of the Standards.

Outdoor Lighting Mandatory Measures
 Indicate location on building plans of Mandatory Measures Note Block: _____

LIGHTING COMPLIANCE FORMS & 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 Manual published by the California Energy Commission.

OLTG-1C Certificate of Compliance. All 4 pages required on plans for all submittal.
 OLTG-2C (Page 1 of 3) Lighting Wattage Allowances for General Hardscape, Sales Frontage, or Ornamental Lighting. Optional on plans.
 OLTG-2C (Page 2 of 3) Lighting Wattage Allowances for Per Application or Per Area. Optional on plans.
 OLTG-2C (Page 3 of 3) Additional Lighting Power Allowance for Ordinance Requirements. Optional on plans.

CERTIFICATE OF COMPLIANCE (Page 2 of 4) OLTG-1C

COMPLIANCE FIXTURE/LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

Project Name: **DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE** Date: **1/13/14**

INSTALLATION CERTIFICATE, OLTG-1-INST (Retain a copy and verify form is completed and signed.) Field Inspection
 CERTIFICATE OF ACCEPTANCE, OLTG-2A (Retain a copy and verify form is completed and signed.) Field Inspection

Luminaire Schedule					Installed Watts				
A	B	C	D	E	F		G	H	I
Name Or Item Tag	Luminaire Description See footnote below (i.e., lamp pole-top shoe-box 400 watt metal halide)	Cutoff Designation	Watts per Luminaire 1	Special Features	How wattage was determined		Number of Luminaires	Installed Watts (D x G)	Field Inspector 2
					Default from NA-8	According to S 130 (d or e)			Pass Fail
L1	Wall Mount, 74W LED, LED Engine Driver and PEC	FC	47	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	16	752	<input type="checkbox"/> <input type="checkbox"/>
L2	Wall Mount, 73W LED, LED Engine Driver and PEC	FC	73	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	146	<input type="checkbox"/> <input type="checkbox"/>
L10	Wall Mount, 79W LED, LED Engine Driver and PEC	FC	79	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	79	<input type="checkbox"/> <input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> <input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> <input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> <input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> <input type="checkbox"/>
Enter total into OLTG-1C; Page 4 of 4; Row H; Total Installed Watts:								977	

1. Type of luminaire (i.e.: post top, wall pack, surface, shoe box); for non-incandescent luminaires, indicate nominal lamp wattage and lamp type (i.e.: fluorescent incandescent, HID); ballast type (i.e.: electronic or magnetic); number of lamps and number of ballast per luminaire. For incandescent luminaires the luminaire wattage listed in column D shall be the maximum relamping rated wattage on a permanent factory-installed label on the luminaire. NOT the wattage of the lamp (bulb) used, in accordance with Section 130 (d or e).
 2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

EXEMPT LUMINAIRES Field Inspection
 Name or Symbol Description of exempt luminaires in accordance with S 147

MANDATORY CONTROLS Field Inspection

#	Description	Location	#	Description	Location
1	Photoelectric cell	EXTERIOR LIGHT			

SPECIAL FEATURES INSPECTION CHECKLIST (See Page 2 of 4 of OLTG-1C)

The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification. The local enforcement agency determines the adequacy of the justification, and may reject a building or design that otherwise complies base on the adequacy of the special justification and documentation submitted.

Field Inspector Notes or Discrepancies:

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	221	262

Tommy F. Lee 01-26-15
 REGISTERED ELECTRICAL ENGINEER DATE
 08-24-15
 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: 01-21-15

CERTIFICATE OF COMPLIANCE (Page 1 of 4) LTG-1C

Project Name: DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE		Date: 1-13-2014
Project Address: DUNSMUIR, CA	Climate Zone: 5	Building CFA: 6495 SQ FT Unconditioned Floor Area:

General Information			
Building Type:	<input checked="" type="checkbox"/> Nonresidential	<input type="checkbox"/> High-Rise Residential	<input type="checkbox"/> Hotel/Motel
	<input type="checkbox"/> Schools	<input type="checkbox"/> Relocatable Public Schools	<input checked="" type="checkbox"/> Conditioned Spaces
			<input type="checkbox"/> Unconditioned Spaces
Phase of Construction:	<input checked="" type="checkbox"/> New Construction	<input type="checkbox"/> Addition	<input type="checkbox"/> Alteration
Method of Compliance:	<input type="checkbox"/> Complete Building	<input checked="" type="checkbox"/> Area Category	<input type="checkbox"/> Tailored

Documentation Author's Declaration Statement
 • I certify that this Certificate of Compliance documentation is accurate and complete.

Name: TOMMY F. LEE	Signature: <i>Tommy F. Lee</i>
Company: CALIFORNIA DEPARTMENT OF TRANSPORTATION	Date: 1-13-14
Address: 1801 30TH STREET, MS9-3/11H	If applicable: CEA # CEPE #
City/State/Zip: SACRAMENTO, CA 95816	Phone: (916) 227-8376

Principal Lighting Designer's Declaration Statement
 • I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the lighting design.
 • This Certificate of Compliance identifies the lighting features and performance specifications required for compliance with Title 24, Pages 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: TOMMY F. LEE	Signature: <i>Tommy F. Lee</i>
Company: CALIFORNIA DEPARTMENT OF TRANSPORTATION	Phone: (916) 227-8376
Address: 1801 30TH STREET, MS9-3/11H	License # E 18534
City/State/Zip: SACRAMENTO, CA 95816	Date: EXP 12-31-16

Lighting Mandatory Measures
 Indicate location on building plans of Mandatory Measures Note Block: This Sheet

LIGHTING COMPLIANCE FORMS & 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 Manual published by the California Energy Commission.

<input checked="" type="checkbox"/>	LTG-1C Pages 1 through 4	Certificate of Compliance. All pages required on plans for all submittals.
<input type="checkbox"/>	LTG-2C	Lighting Controls Credit Worksheet
<input type="checkbox"/>	LTG-3C	Indoor Lighting Power Allowance
<input type="checkbox"/>	LTG-4C Pages 1 through 4	Tailored Method Worksheet
<input type="checkbox"/>	LTG-5C Pages 1 and 2	Line Voltage Track Lighting Worksheet

2008 Nonresidential Compliance Forms July 2010

General Notes: 1. Forms LTG-1C, Parts 2 of 4 are shown on EE0-6.
 2. Forms LTG-1C, Parts 3 of 4 and 4 of 4 are shown on EE0-7.
 3. Other checked forms are available upon request.

CALIFORNIA ENERGY COMMISSION MANDATORY MEASURES:

BUILDING LIGHTING SHUT-OFF

1. Wall/Ceiling Occupancy sensors for all Rooms.

BUILDING EXTERIOR LIGHTING

1. Photoelectric unit.
2. All exterior luminaries shall have full cut-off type light distribution.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	223	262

Tommy F. Lee 01-26-15
 REGISTERED ELECTRICAL ENGINEER DATE
 08-24-15
 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: 01-21-15

DESIGN	BY Tommy F. Lee	CHECKED Beatrice Bindu
DETAILS	BY Dali Zhou	CHECKED Tommy F. Lee
QUANTITIES	BY Tommy F. Lee	CHECKED Beatrice Bindu

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No.	02W0002
POST MILE	R7.2

DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE

INDOOR COMPLIANCE FORM 1

SHEET **EE0-5**

GENERAL NOTES:

- A. Existing electrical conduits and conductors system as shown are diagrammatic and their location as shown is approximate only. Therefore, field verify exact location of existing facilities prior to the beginning of project or removal work. The cost for pot holing and for locating existing utilities shall be considered to be paid for in the building lump sump price and no additional cost will be paid.
- B. Not all utilities are shown.

NOTES:

- ① (2) 4"C, 6#500 Kcmil, 4"C, 2#8, 1#8G, 2"C, 3#2.
- ② 3"C, 3#4/0, 3#6, 1#6G.
- ③ 1"C, 2 telephone cables.
- ④ 1"C, 2 Fiber optic cables.
- ⑤ Remove conductors/Cables. Intercept conduit and install No. 3/2 pull box. [BC]

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *[Signature]*
 FRANCIS SOLICH
 Approval date: 01-21-15

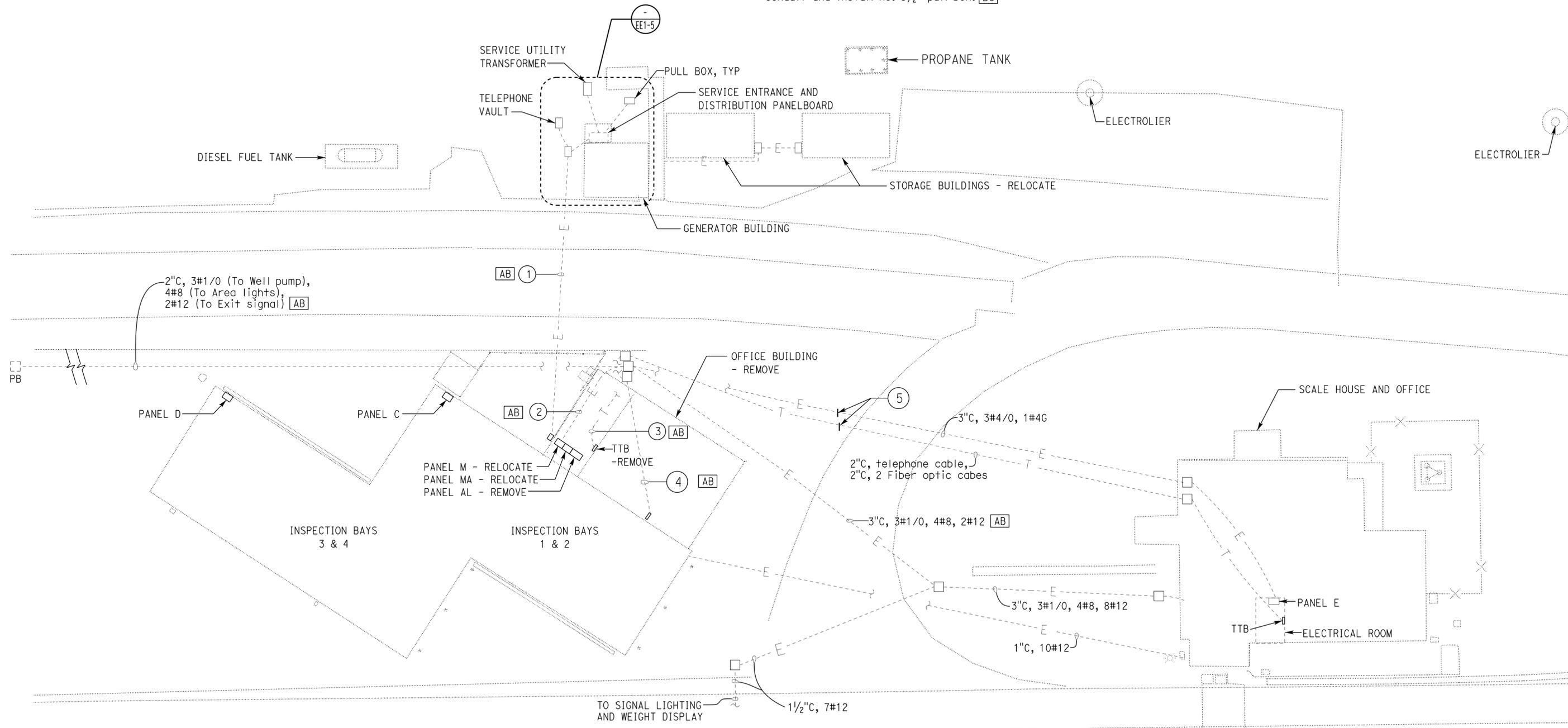
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	226	262

Tommy F. Lee 01-26-15
 REGISTERED ELECTRICAL ENGINEER DATE

08-24-15
 PLANS APPROVAL DATE

Tommy F. Lee
 No. E 18534
 Exp. 12-31-16
 ELEC
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SITE PLAN

1/16" = 1' - 0"

APPROVED FOR ELECTRICAL WORK ONLY

Paul Schreff
 DESIGN SUPERVISOR
Mark Chapp
 DESIGN ENGINEER

DESIGN	BY Tommy F. Lee	CHECKED Beatrice Bindu
DETAILS	BY Dali Zhou	CHECKED Tommy F. Lee
QUANTITIES	BY Tommy F. Lee	CHECKED Beatrice Bindu

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 02W0002
 POST MILE R7.2

DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE
 EXISTING SITE PLAN

SHEET **EE1-1**



REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
9-05-13 4-16-14 5-16-14 1-26-15		

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	228	262

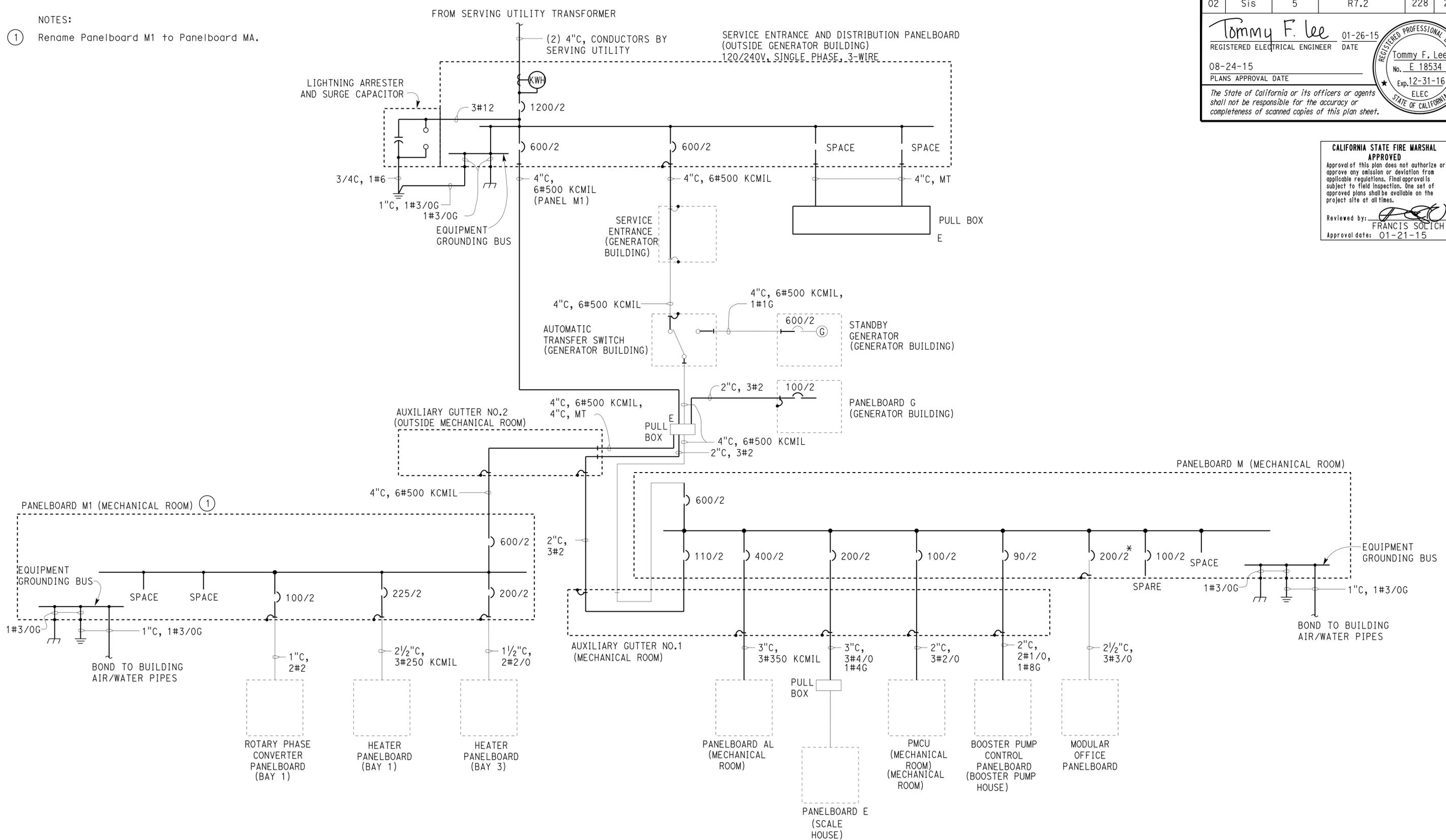
Tommy F. Lee 01-26-15
REGISTERED ELECTRICAL ENGINEER DATE

08-24-15
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
Tommy F. Lee
No. E 18534
Exp. 12-31-16
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NOTES:
① Rename Panelboard M1 to Panelboard MA.



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Reviewed by: FRANCIS SOLICH
Approval date: 01-21-15

SINGLE LINE DIAGRAM

* SALVAGE 200A, 2-POLE CB AND REPLACE WITH 250A, 2-POLE CB

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NO SCALE

DESIGN BY Tommy F. Lee CHECKED Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 02W0002 POST MILE R7.2	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE	SHEET
					EE1-3
					EXISTING SINGLE LINE DIAGRAM
DETAILS BY Dali Zhou CHECKED Tommy F. Lee	UNIT: 3597 CONTRACT No.: 02-2E8004 PROJECT NUMBER & PHASE: 02000006031	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
QUANTITIES BY Tommy F. Lee CHECKED Beatrice Bindu	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	9-05-13 4-10-14 5-16-14 1-26-15		

TAEWW Imperial - CCSC Rev. 02/13

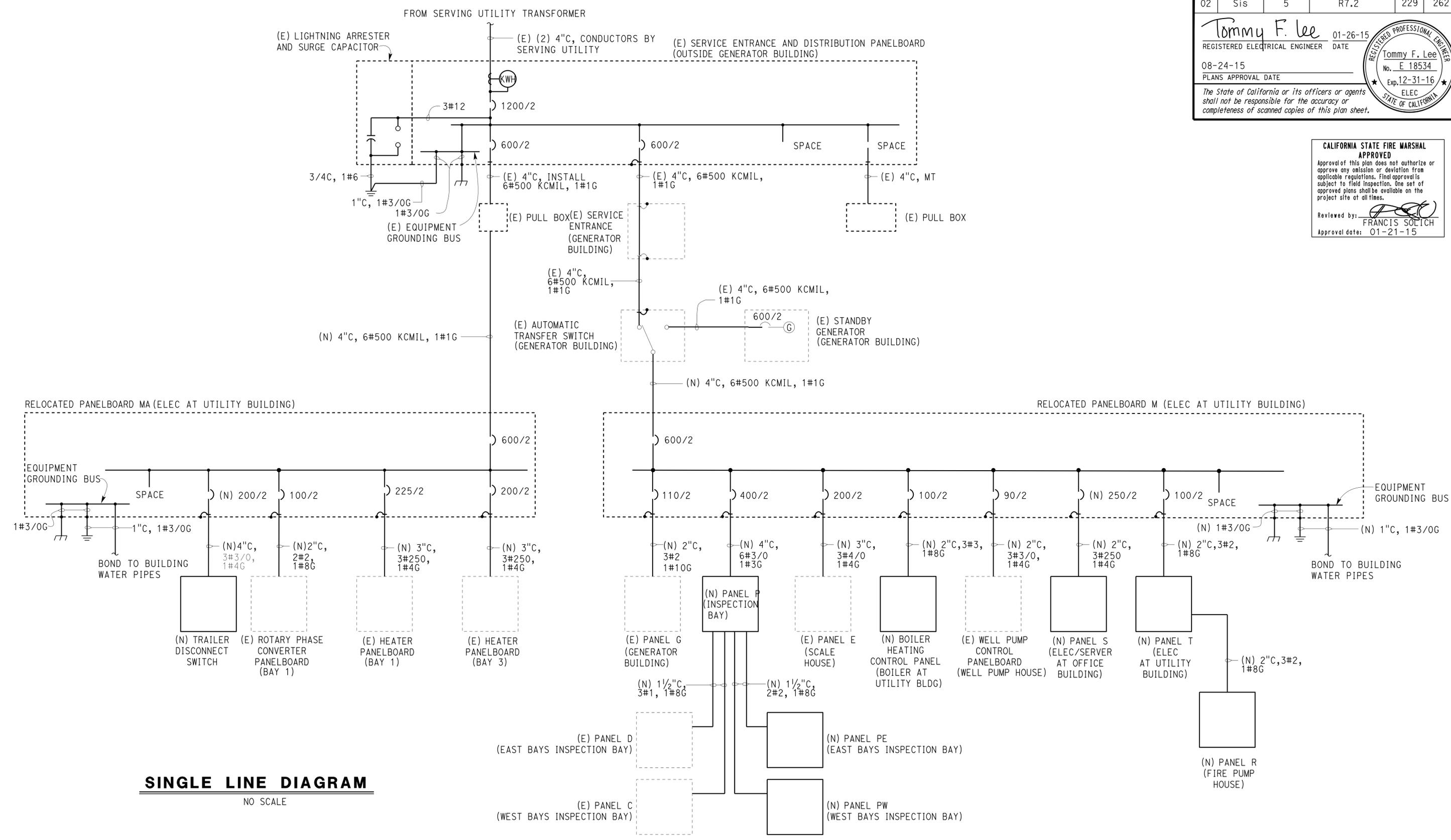
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	229	262

Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER
 DATE 01-26-15
 PLANS APPROVAL DATE 08-24-15
 No. E 18534
 Exp. 12-31-16
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 STATE OF CALIFORNIA

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 Reviewed by: FRANCIS SOLICH
 Approval date: 01-21-15



SINGLE LINE DIAGRAM
 NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY	Tommy F. Lee	CHECKED	Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	02W0002	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE MODIFIED SINGLE LINE DIAGRAM	SHEET	OF	
	DETAILS	BY	Dali Zhou	CHECKED			Tommy F. Lee	POST MILE		R7.2	EE1-4	
	QUANTITIES	BY	Tommy F. Lee	CHECKED			Beatrice Bindu	REVISION DATES (PRELIMINARY STAGE ONLY)				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	UNIT: 3597 CONTRACT No.: 02-2E8004 PROJECT NUMBER & PHASE: 0200006031			

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	230	262

Tommy F. Lee
REGISTERED ELECTRICAL ENGINEER DATE 01-26-15
08-24-15
PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
Tommy F. Lee
No. E 18534
Exp. 12-31-16
ELEC
STATE OF CALIFORNIA

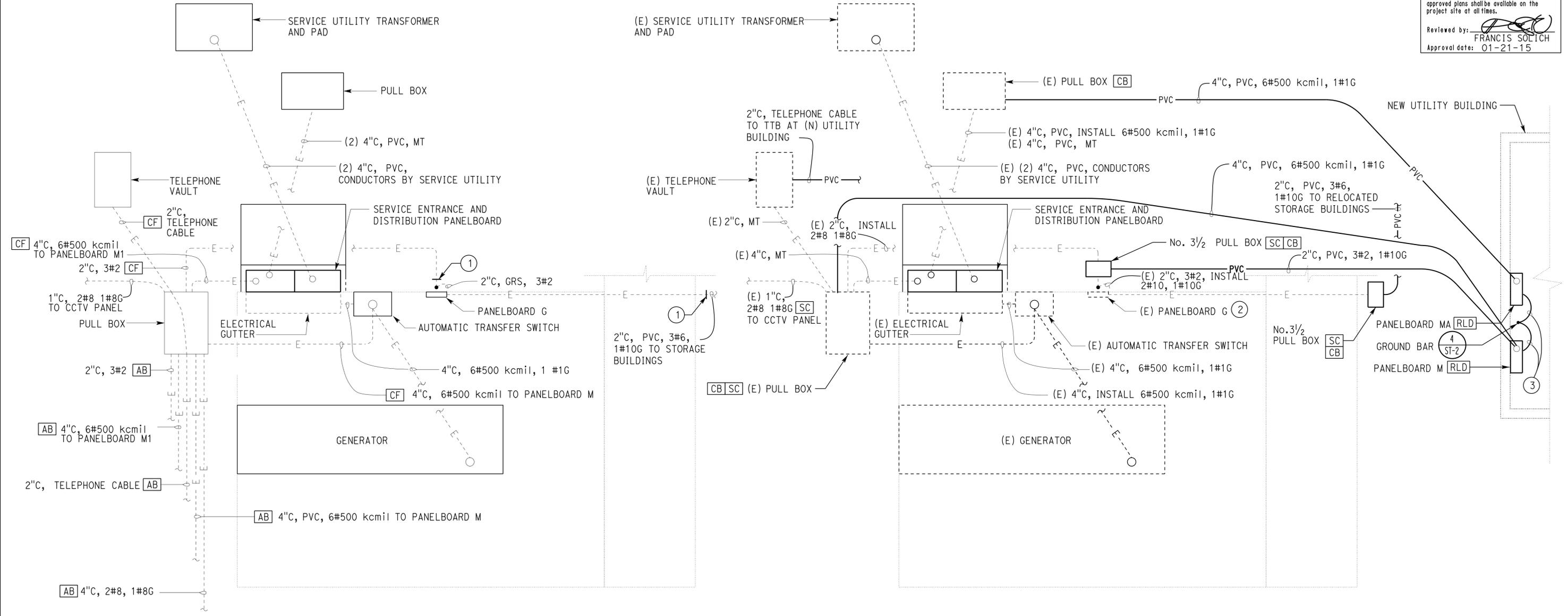
GENERAL NOTES:

- A. Not all underground conduit and piping is shown in this area. Contractor shall verify all underground conduit and piping prior to performing any trenching or excavation.

NOTES:

- Intercept existing conduit and install No.5 pullbox.
- Replace 20A, 2-pole circuit breaker in place of 1 and 3 with (2) 20A, single pole. Terminate #10 conductor for CCTV panel at 20A circuit breaker in place #1.
- 1" C, 1#3/0G

CALIFORNIA STATE FIRE MARSHAL
APPROVED
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Reviewed by: FRANCIS SOLICH
Approval date: 01-21-15



EXISTING

MODIFIED



PARTIAL SITE PLAN

3/8" = 1'-0"

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY Tommy F. Lee CHECKED Beatrice Bindu	DETAILS BY Dali Zhou CHECKED Tommy F. Lee	QUANTITIES BY Tommy F. Lee CHECKED Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 02W0002	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE GENERATOR BUILDING PLAN	SHEET EE1-5 OF
					POST MILE R7.2		
					UNIT: 3597 CONTRACT No.: 02-2E8004 PROJECT NUMBER & PHASE: 02000006031		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
TAEWW Imperial - CCSC Rev. 02/13		P:\dist_02\0200000603_dunsmuir_cvet_improvement\expdite\vee1_05.dgn		11-14-13 4-16-14 5-16-14 1-26-15		SHEET OF	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	231	262

GENERAL NOTES
A. For existing and removal plan, see Architectural sheets.

Tommy F. Lee 01-26-15
REGISTERED ELECTRICAL ENGINEER DATE
08-24-15
PLANS APPROVAL DATE

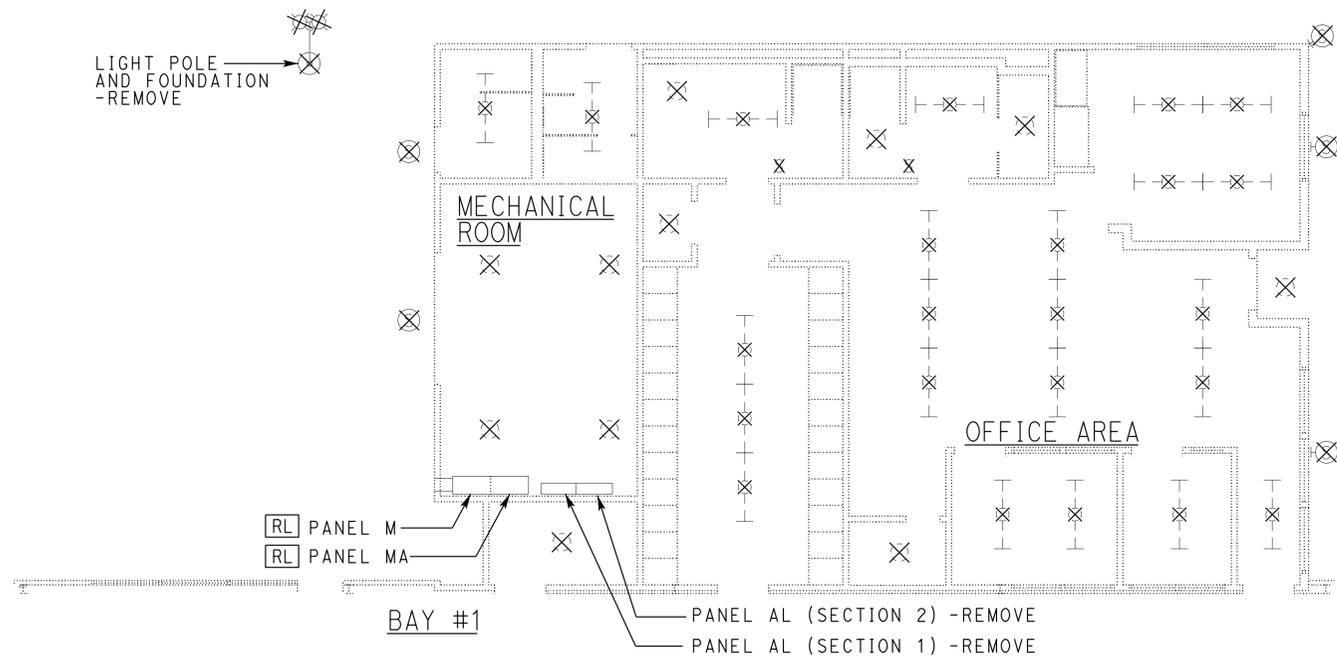
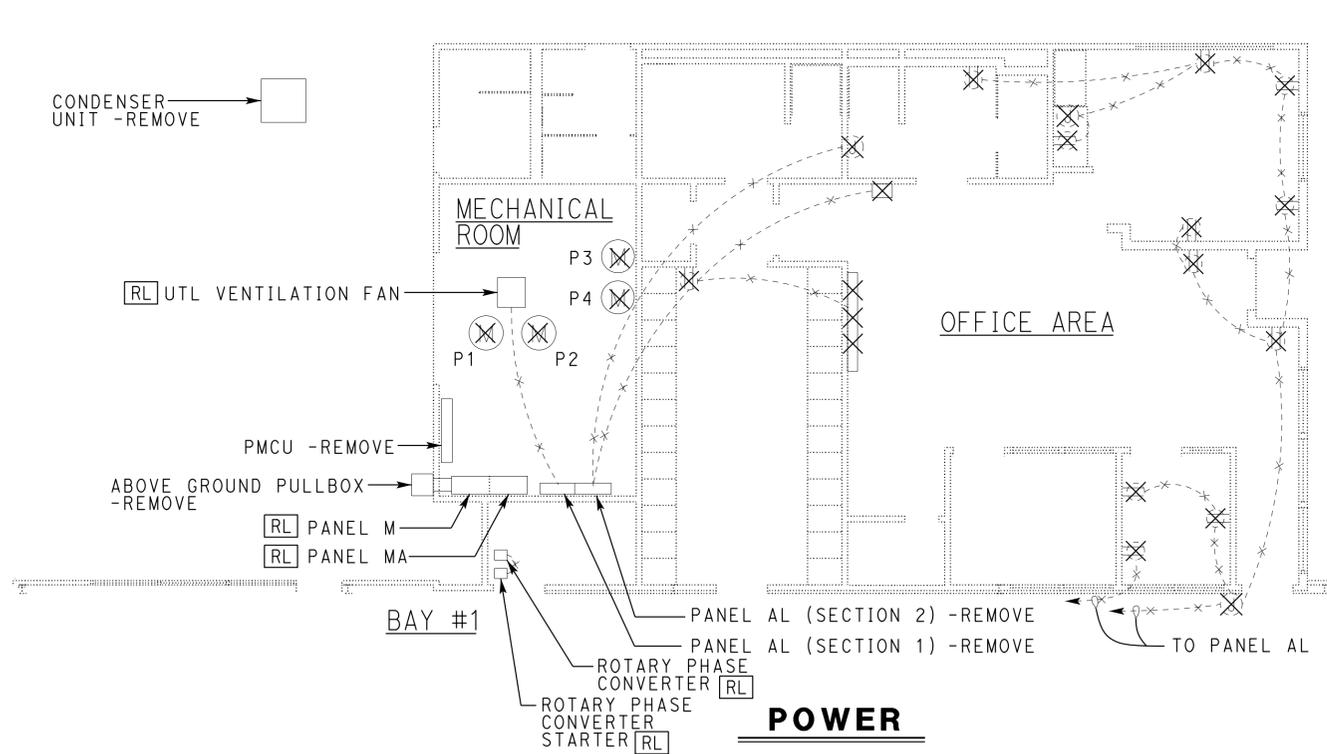
Tommy F. Lee
No. E 18534
Exp. 12-31-16
ELEC
STATE OF CALIFORNIA

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Reviewed by: FRANCIS SOLICH
Approval date: 01-21-15



PLAN
3/16" = 1'-0"

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY	Tommy F. Lee	CHECKED	Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 02W0002 POST MILE R7.2	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE DEMOLITION AND REMOVAL EXISTING OFFICE BUILDING PLAN	SHEET EE1-6				
	DETAILS	BY	Dali Zhou	CHECKED						Tommy F. Lee			
	QUANTITIES	BY	Tommy F. Lee	CHECKED						Beatrice Bindu			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	UNIT: 3597 CONTRACT No.: 02-2E8004 PROJECT NUMBER & PHASE: 0200006031	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
P:\dist_02\020000603_dunsmuir_cvet_improvement\expedite\ee1_06.dgn													

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	232	262

Tommy F. Lee 01-26-15
 REGISTERED ELECTRICAL ENGINEER DATE

08-24-15
 PLANS APPROVAL DATE

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Tommy F. Lee
 No. E 18534
 Exp. 12-31-16
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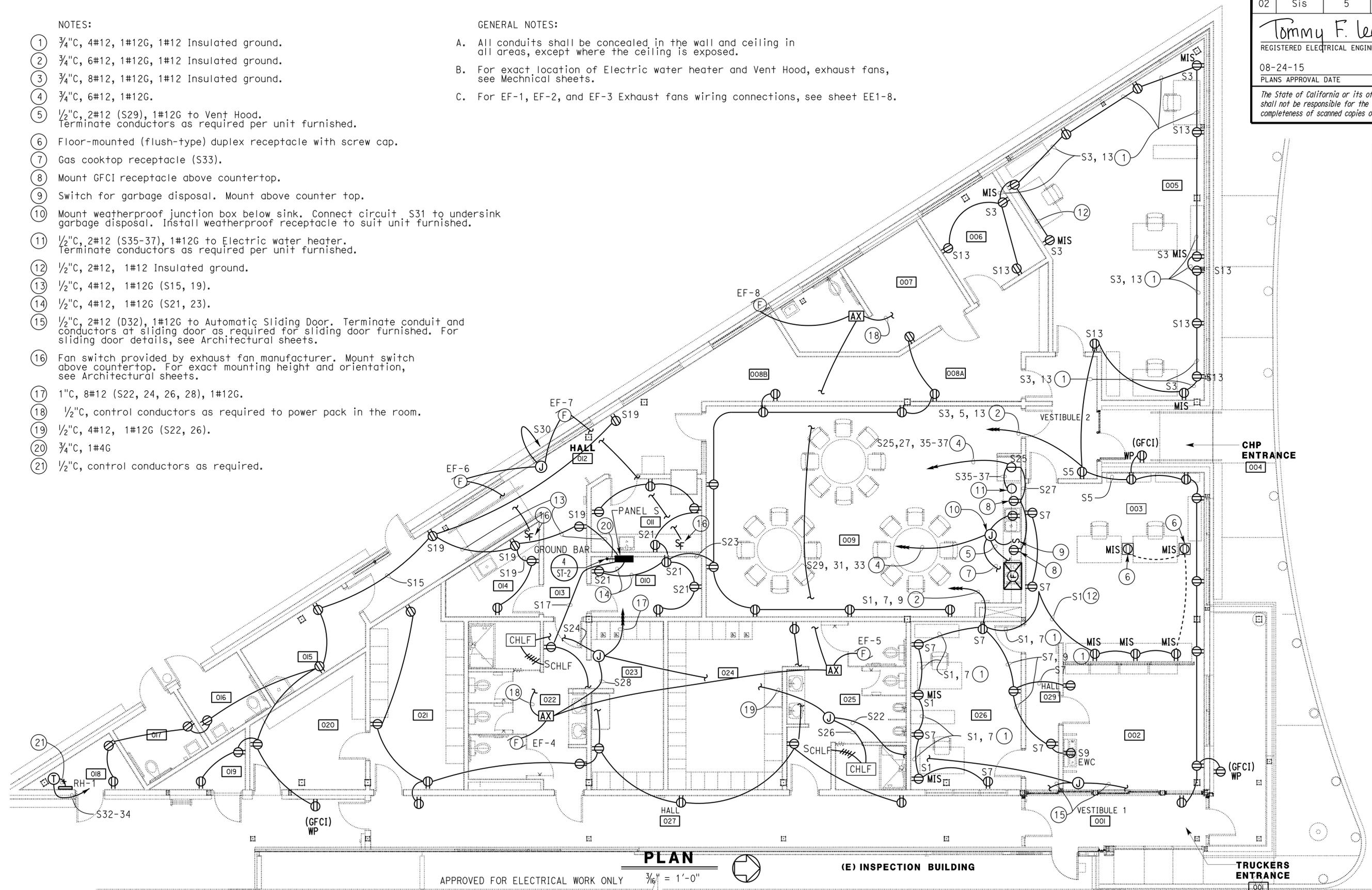
Reviewed by: **FRANCIS SOLICH**
 Approval date: 01-21-15

NOTES:

- ① 3/4"C, 4#12, 1#12G, 1#12 Insulated ground.
- ② 3/4"C, 6#12, 1#12G, 1#12 Insulated ground.
- ③ 3/4"C, 8#12, 1#12G, 1#12 Insulated ground.
- ④ 3/4"C, 6#12, 1#12G.
- ⑤ 1/2"C, 2#12 (S29), 1#12G to Vent Hood. Terminate conductors as required per unit furnished.
- ⑥ Floor-mounted (flush-type) duplex receptacle with screw cap.
- ⑦ Gas cooktop receptacle (S33).
- ⑧ Mount GFCI receptacle above countertop.
- ⑨ Switch for garbage disposal. Mount above counter top.
- ⑩ Mount weatherproof junction box below sink. Connect circuit S31 to undersink garbage disposal. Install weatherproof receptacle to suit unit furnished.
- ⑪ 1/2"C, 2#12 (S35-37), 1#12G to Electric water heater. Terminate conductors as required per unit furnished.
- ⑫ 1/2"C, 2#12, 1#12 Insulated ground.
- ⑬ 1/2"C, 4#12, 1#12G (S15, 19).
- ⑭ 1/2"C, 4#12, 1#12G (S21, 23).
- ⑮ 1/2"C, 2#12 (D32), 1#12G to Automatic Sliding Door. Terminate conduit and conductors at sliding door as required for sliding door furnished. For sliding door details, see Architectural sheets.
- ⑯ Fan switch provided by exhaust fan manufacturer. Mount switch above countertop. For exact mounting height and orientation, see Architectural sheets.
- ⑰ 1"C, 8#12 (S22, 24, 26, 28), 1#12G.
- ⑱ 1/2"C, control conductors as required to power pack in the room.
- ⑲ 1/2"C, 4#12, 1#12G (S22, 26).
- ⑳ 3/4"C, 1#4G
- ㉑ 1/2"C, control conductors as required.

GENERAL NOTES:

- A. All conduits shall be concealed in the wall and ceiling in all areas, except where the ceiling is exposed.
- B. For exact location of Electric water heater and Vent Hood, exhaust fans, see Mechanical sheets.
- C. For EF-1, EF-2, and EF-3 Exhaust fans wiring connections, see sheet EE1-8.



PLAN
 APPROVED FOR ELECTRICAL WORK ONLY 3/16" = 1'-0"

(E) INSPECTION BUILDING

TRUCKERS ENTRANCE

TAEWW Imperial - CCSC Rev. 02/13	DESIGN BY	Tommy F. Lee	CHECKED	Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	02W0002	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE	SHEET	EE1-7	
	DETAILS BY	Dali Zhou	CHECKED	Tommy F. Lee			POST MILE	R7.2		OFFICE BUILDING POWER PLAN	SHEET	OF
	QUANTITIES BY	Tommy F. Lee	CHECKED	Beatrice Bindu			UNIT: 3597 CONTRACT No.: 02-2E8004	PROJECT NUMBER & PHASE: 02000006031		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	9-18-13

25-AUG-2015 06:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	233	262

Tommy F. Lee 01-26-15
 REGISTERED ELECTRICAL ENGINEER DATE

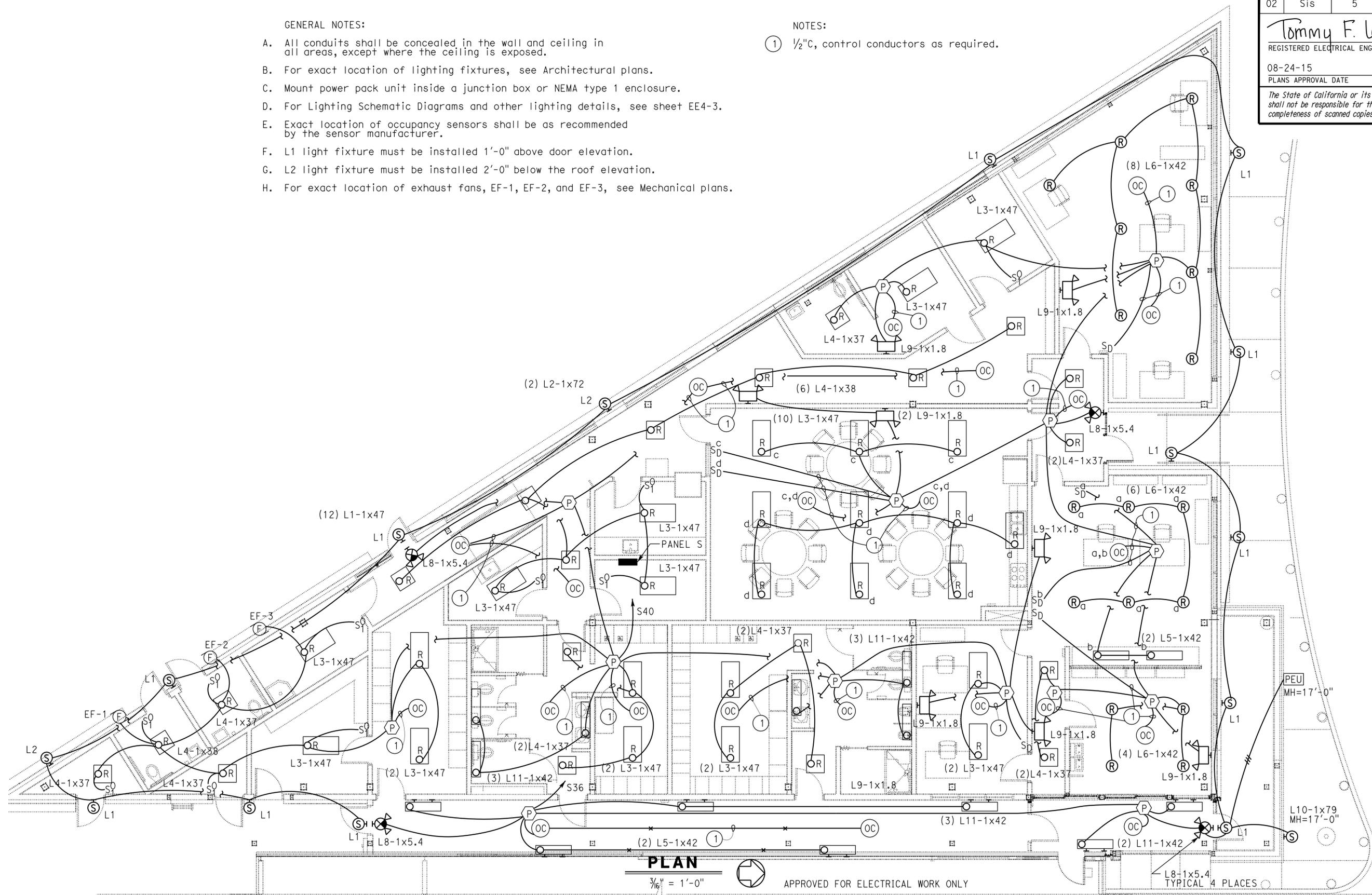
08-24-15
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 Tommy F. Lee
 No. E 18534
 Exp. 12-31-16
 ELEC
 STATE OF CALIFORNIA

- GENERAL NOTES:**
- A. All conduits shall be concealed in the wall and ceiling in all areas, except where the ceiling is exposed.
 - B. For exact location of lighting fixtures, see Architectural plans.
 - C. Mount power pack unit inside a junction box or NEMA type 1 enclosure.
 - D. For Lighting Schematic Diagrams and other lighting details, see sheet EE4-3.
 - E. Exact location of occupancy sensors shall be as recommended by the sensor manufacturer.
 - F. L1 light fixture must be installed 1'-0" above door elevation.
 - G. L2 light fixture must be installed 2'-0" below the roof elevation.
 - H. For exact location of exhaust fans, EF-1, EF-2, and EF-3, see Mechanical plans.

- NOTES:**
- ① 1/2"C, control conductors as required.



CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *[Signature]*
 FRANCIS SOLICH
 Approval date: 01-21-15

PLAN
 3/16" = 1'-0"
 APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY Tommy F. Lee	CHECKED Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 02W0002	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE OFFICE BUILDING LIGHTING PLAN	SHEET
DETAILS BY Dali Zhou	CHECKED Tommy F. Lee			POST MILE R7.2		SHEET EE1-8 OF
QUANTITIES BY Tommy F. Lee	CHECKED Beatrice Bindu			UNIT: 3597 CONTRACT No.: 02-2E8004 PROJECT NUMBER & PHASE: 02000006031		

NOTES:

- ① 1/2"C, conductors and control cables as required.
- ② Horse power rated Furnace Disconnect Switch. Mount next to furnace.
- ③ 2#8, 1#10G.
- ④ 1"C, 6#8, 1#10G.
- ⑤ 3 sets of secondary conductors to Mylar encased low voltage snow melting heating elements. Conductors must be sized to minimize voltage drop and follow for maximum secondary conductor length with conductor size on each circuit per manufacturer recommendation.
- ⑥ 2#10, 1#10G.
- ⑦ 4#10, 1#10G.
- ⑧ Install Air Sensing Thermostat at the elevation per the manufacturer recommendation.

GENERAL NOTES:

- A. For exact location of Furnaces, Condensers units, Duct Smoke detectors, Thermostats and Water heaters, see Mechanical sheets.
- B. For exact location of rooftop heating, see Architectural sheets.
- C. Panel S and Panel H are located at Elec/Server room No. 010.
- D. Fire Alarm Control Panel is located at Elec/Server room No. 010.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	234	262

Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER DATE 01-26-15
 08-24-15
 PLANS APPROVAL DATE

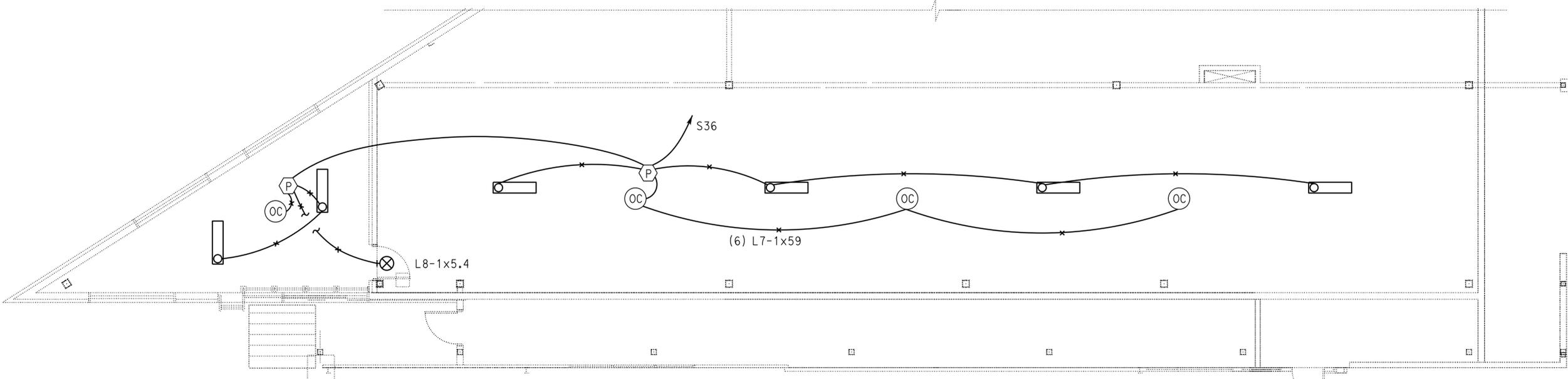
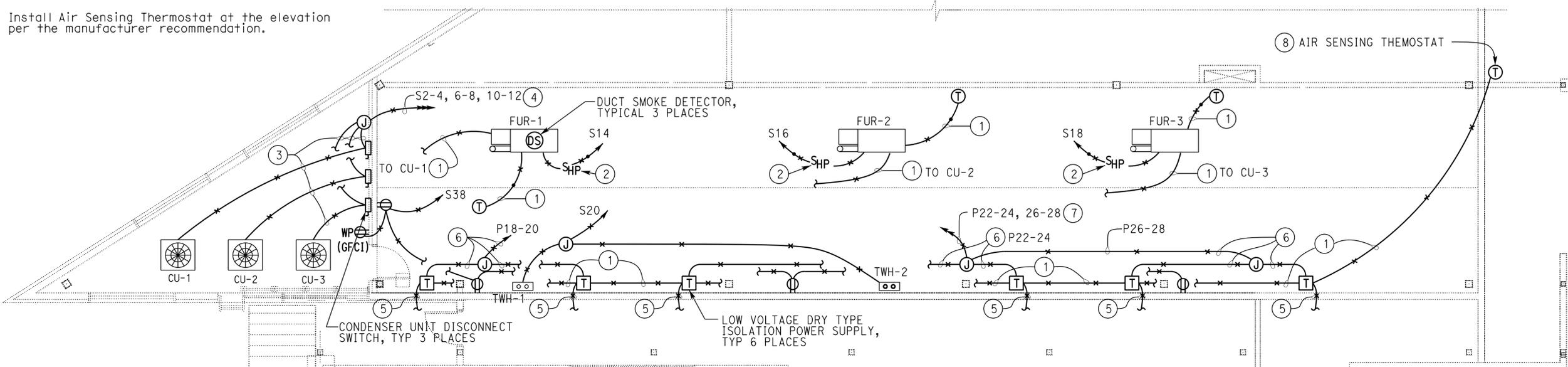
Tommy F. Lee
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Reviewed by: FRANCIS SOLICH
 Approval date: 01-21-15



APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Tommy F. Lee	CHECKED Beatrice Bindu
DETAILS	BY Dali Zhou	CHECKED Tommy F. Lee
QUANTITIES	BY Tommy F. Lee	CHECKED Beatrice Bindu

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No.	02W0002
POST MILE	R7.2

DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE
 MECH LOFT POWER AND LIGHTING PLAN

SHEET EE1-9 OF

NOTES:

- ① 3/4"C, pull rope.
- ② 3/4"C, pull rope to TTB.
- ③ 1"C, pull rope to TTB.
- ④ 8' X 8' Plywood for TTB.
- ⑤ Mount communication outlet above countertop. For exact height and orientation, see Architectural sheets.
- ⑥ Ceiling-mounted junction box with undercoating for future speaker. Mount junction box flush with the ceiling.
- ⑦ Wall-mounted junction box with undercoating for future speaker. Mount junction box flush with the wall at 9'-0" above the floor.
- ⑧ Junction box for future volume control switch at lights switch height. Mount junction box flush with the wall.
- ⑨ Junction box for future volume control switch. Mount junction box 6" above countertop.
- ⑩ Junction box for future surveillance camera. Flush-mount junction on the ceiling. Exact location to be determined in field.
- ⑪ 3/4"C, pull rope. Terminate conduit at location of Digital Video Recorder as determined in field.
- ⑫ Floor-mounted (flush-type) voice and data outlet with screw cap.
- ⑬ 3/4"C, 1#6G to ground bar in Electrical Room.

GENERAL NOTES:

- A. Locations of all floor-mounted (flush-type) voice and data outlets are arbitrary. Exact locations must be determined in the field.
- B. All conduits shall be concealed in the wall and ceiling in all areas.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	235	262

Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER
 DATE 01-26-15
 PLANS APPROVAL DATE 08-24-15

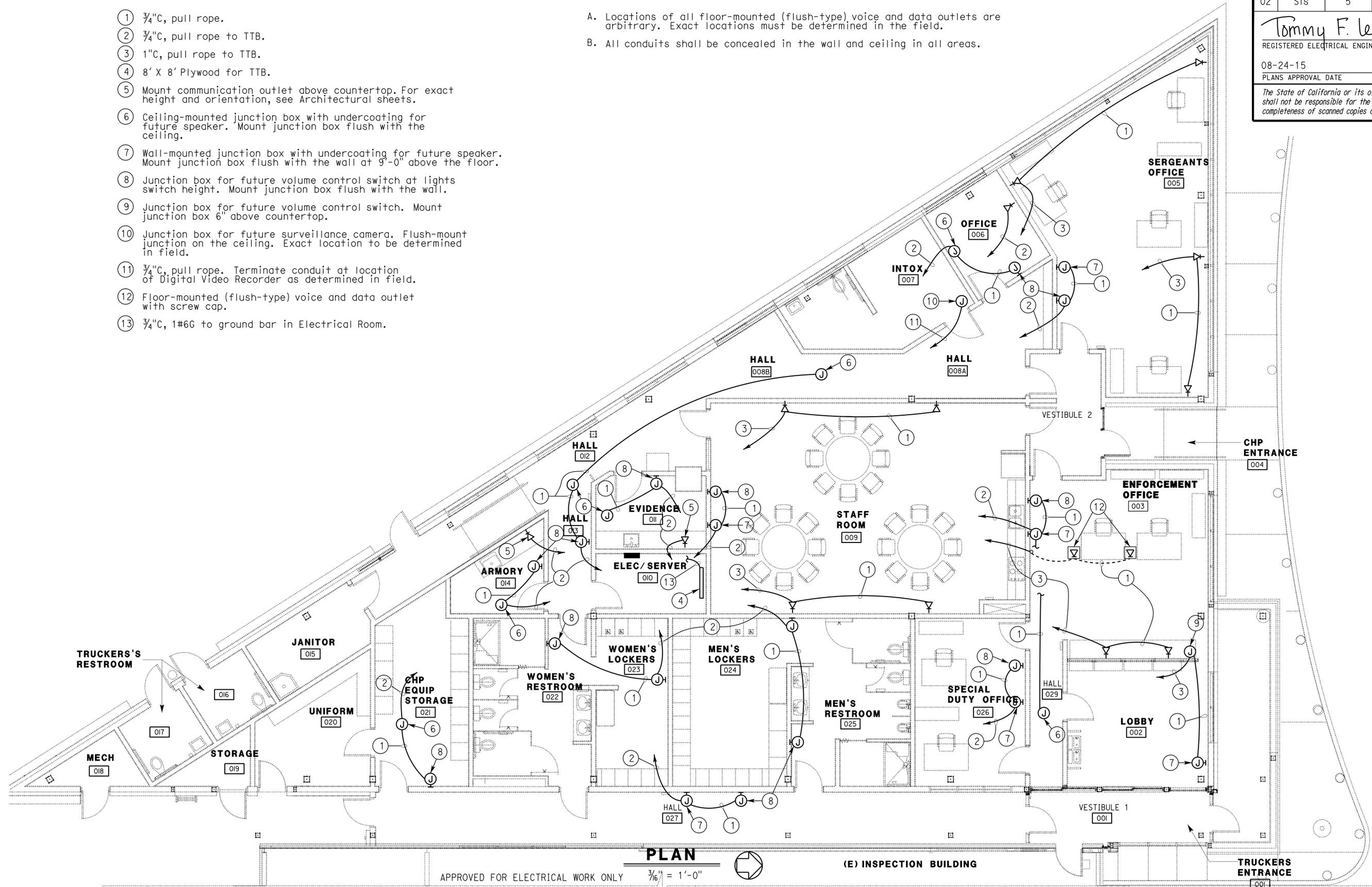
Tommy F. Lee
 No. E 18534
 Exp. 12-31-16
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Reviewed by: FRANCIS SOLICH
 Approval date: 01-21-15



PLAN (E) INSPECTION BUILDING
 APPROVED FOR ELECTRICAL WORK ONLY 3/16" = 1'-0"

DESIGN	BY Tommy F. Lee	CHECKED Beatrice Bindu
DETAILS	BY Dali Zhou	CHECKED Tommy F. Lee
QUANTITIES	BY Tommy F. Lee	CHECKED Beatrice Bindu

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No.	02W0002
POST MILE	R7.2

DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE
 OFFICE BUILDING COMMUNICATION PLAN

SHEET EE1-10

GENERAL NOTES:

- A. Conduit and conductor system for Intrusion alarm system is not shown. See Special Provisions for requirements.
- B. Submit conduit and conductor layout for approval prior to construction.
- C. All conduits shall be concealed in the wall and ceiling in all areas, except where the ceiling is exposed.

LEGEND (THIS SHEET ONLY)

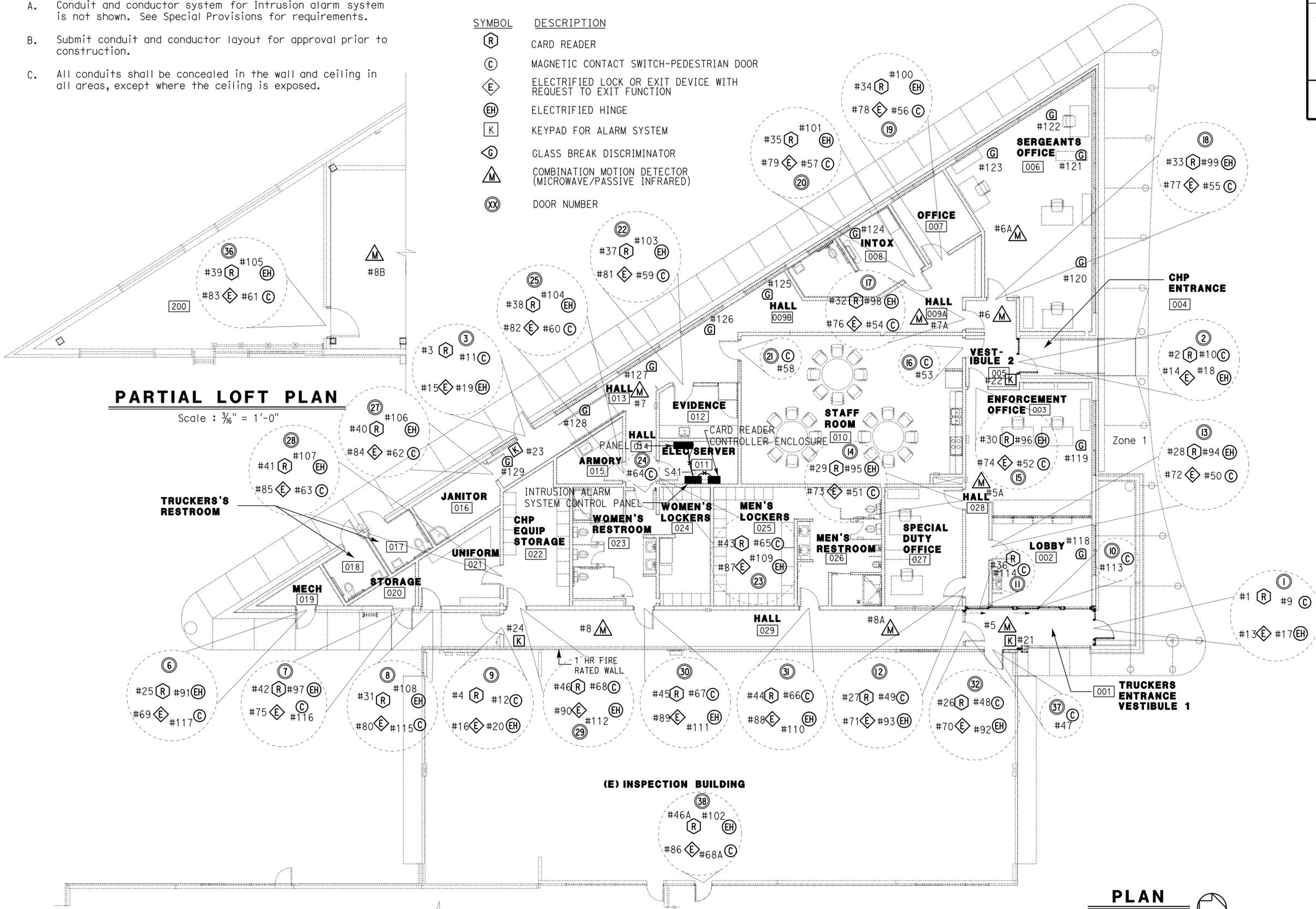
SYMBOL	DESCRIPTION
(R)	CARD READER
(C)	MAGNETIC CONTACT SWITCH-PEDESTRIAN DOOR
(E)	ELECTRIFIED LOCK OR EXIT DEVICE WITH REQUEST TO EXIT FUNCTION
(EH)	ELECTRIFIED HINGE
(K)	KEYPAD FOR ALARM SYSTEM
(G)	GLASS BREAK DISCRIMINATOR
(M)	COMBINATION MOTION DETECTOR (MICROWAVE/PASSIVE INFRARED)
(XX)	DOOR NUMBER

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	236	262

Tommy F. Lee 01-26-15
 REGISTERED ELECTRICAL ENGINEER DATE
 08-24-15
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Tommy F. Lee
 No. E 18534
 Exp. 12-31-16
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CALIFORNIA STATE FIRE MARSHAL
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 Approval date: 01-21-15



PARTIAL LEFT PLAN

Scale : 3/16" = 1'-0"

PLAN

1/8" = 1'-0"

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DESIGN	BY Tommy F. Lee	CHECKED Beatrice Bindu
DETAILS	BY Dali Zhou	CHECKED Tommy F. Lee
QUANTITIES	BY Tommy F. Lee	CHECKED Beatrice Bindu

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 02W0002
 POST MILE R7.2

DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE
 OFFICE BUILDING INTRUSION ALARM PLAN

SHEET EE1-11 OF

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	237	262

Tommy F. Lee 01-26-15
REGISTERED ELECTRICAL ENGINEER DATE

08-24-15
PLANS APPROVAL DATE

Tommy F. Lee
No. E 18534
Exp. 12-31-16
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FRANCIS SOLICH
Approval date: 01-21-15

LOCATION	QUANTITY	DEVICES DESCRIPTION	ITEM NUMBER	
ENTRANCE ACCESS DOORS AT THE FOLLOWING LOCATIONS: TRUCKERS ENTRANCE (001), VESTIBULE 2, HALL (012), SOUTH HALL (027)	4	DIGITAL CARD READER	#1,#2,#3,#4	
	9	COMBINATION DETECTOR (MICROWAVE/PASSIVE INFARED 360 DEGREE)	#5,#6,#7,#8,#5A,#6A,#7A,#8A,#8B	
	4	MAGNETIC CONTACT SWITCH-PEDESTRIAN	#9,#10,#11,#12	
	4	ELECTRIFIED LOCK SET	#13,#14,#15,#16	
	4	ELECTRIFIED DOOR HINGE	#17,#18,#19,#20	
	4	DIGITAL KEYPAD	#21,#22,#23,#24	
ACCESS DOOR AT THE FOLLOWING LOCATIONS: VESTIBULE 1, SPECIAL OFFICE (026), LOBBY (002), ENFORCEMENT OFFICE (003), STAFF ROOM (009), SERGEANTS OFFICE (005), OFFICE (005), INTOX (007), HALL (008A), EVIDENCE (011), ARMORY (014), ELEC/SERVER (010), MEN'S RESTROOM (025), WOMEN'S RESTROOM (022), CHP EQUIP STORAGE (021), UNIFORM (020), JANITOR (015), MECH (018), STORAGE (019)	23	DIGITAL CARD READER	#25,#26,#27,#28#29, #30,#31,#32,#33,#34, #35,#36,#37,#38,#39 #40,#41,#42,#43,#44, #45,#46,#46A	
	23	MAGNETIC CONTACT SWITCH-PEDESTRIAN	#47,#48,#49,#50,#51, #52,#53,#54#55,#56, #57,#58,#59,#60,#61 #62,#63,#64,#65,#66, #67,#68,#68A	
	22	ELECTRIFIED LOCK SET	#69,#70,#71,#72,#73, #74,#75,#76,#77#78, #79,#80,#81,#82,#83, #84,#85,#86,#87,#88, #89,#90	
	22	ELECTRIFIED DOOR HINGE	#91,#92,#93,#94,#95, #96,#97,#98,#99,#100, #101,#102,#103,#104,#105, #106,#107,#108,#109,#110, #111,#112	
	5	MAGNETIC CONTACT SWITCH-PEDESTRIAN	#113,#114,#115,#116,#117,	
	HALL (012), HALL (008B), INTOX (007), SERGEANTS OFFICE (005), ENFORCEMENT OFFICE (003), LOBBY (002)	12	GLASS BREAK DISCRIMINATORS	#118,#119,#120,#121#122, #123,#124,#125,#126,#127, #128,#129
		4	PANIC SWITCH	#130, #131, #132, #133
		3	AMPLIFIED SPEAKER	#134, #135, #136

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DESIGN BY Tommy F. Lee CHECKED Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 02W0002	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE	SHEET EE1-12	
			POST MILE R7.2			OFFICE BUILDING INTRUSION ALARM SCHEDULE
			REVISION DATES (PRELIMINARY STAGE ONLY)			
DETAILS BY Dali Zhou CHECKED Tommy F. Lee	UNIT: 3597 CONTRACT No.: 02-2E8004 PROJECT NUMBER & PHASE: 02000006031	DISREGARD PRINTS BEARING EARLIER REVISION DATES	9-18-13 4-16-14 5-16-14 1-26-15	SHEET OF		

TAEMWW Imperial - CCSC Rev. 02/13 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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25-AUG-2015 06:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	238	262

Tommy F. Lee 01-26-15
REGISTERED ELECTRICAL ENGINEER DATE

08-24-15
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
Tommy F. Lee
No. E 18534
Exp. 12-31-16
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STATE OF CALIFORNIA

GENERAL NOTES:

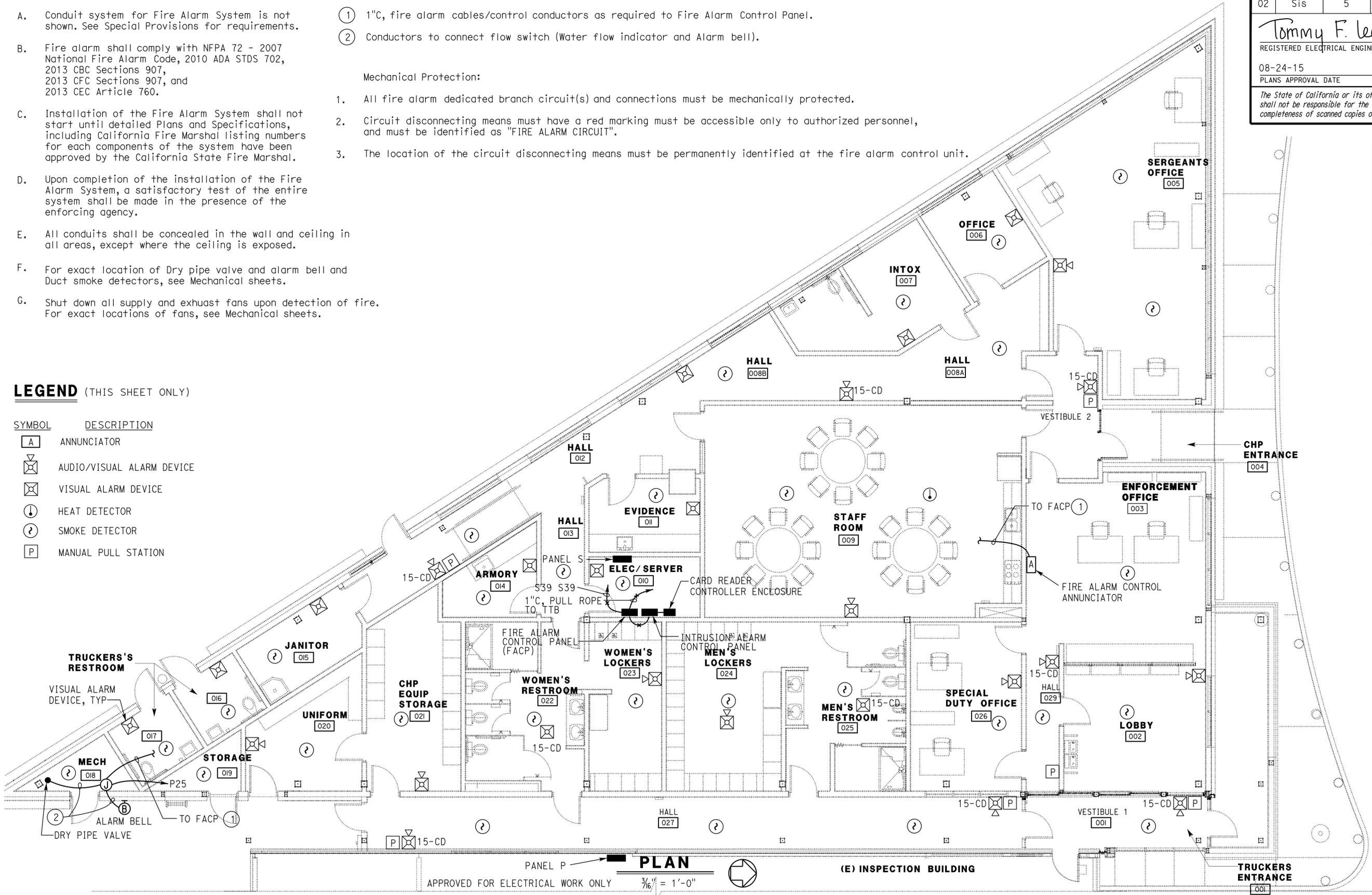
- A. Conduit system for Fire Alarm System is not shown. See Special Provisions for requirements.
- B. Fire alarm shall comply with NFPA 72 - 2007 National Fire Alarm Code, 2010 ADA STDS 702, 2013 CBC Sections 907, 2013 CFC Sections 907, and 2013 CEC Article 760.
- C. Installation of the Fire Alarm System shall not start until detailed Plans and Specifications, including California Fire Marshal listing numbers for each components of the system have been approved by the California State Fire Marshal.
- D. Upon completion of the installation of the Fire Alarm System, a satisfactory test of the entire system shall be made in the presence of the enforcing agency.
- E. All conduits shall be concealed in the wall and ceiling in all areas, except where the ceiling is exposed.
- F. For exact location of Dry pipe valve and alarm bell and Duct smoke detectors, see Mechanical sheets.
- G. Shut down all supply and exhaust fans upon detection of fire. For exact locations of fans, see Mechanical sheets.

NOTES:

- ① 1" C, fire alarm cables/control conductors as required to Fire Alarm Control Panel.
 - ② Conductors to connect flow switch (Water flow indicator and Alarm bell).
- Mechanical Protection:
- 1. All fire alarm dedicated branch circuit(s) and connections must be mechanically protected.
 - 2. Circuit disconnecting means must have a red marking must be accessible only to authorized personnel, and must be identified as "FIRE ALARM CIRCUIT".
 - 3. The location of the circuit disconnecting means must be permanently identified at the fire alarm control unit.

LEGEND (THIS SHEET ONLY)

SYMBOL	DESCRIPTION
[A]	ANNUNCIATOR
[AV]	AUDIO/VISUAL ALARM DEVICE
[V]	VISUAL ALARM DEVICE
[H]	HEAT DETECTOR
[S]	SMOKE DETECTOR
[P]	MANUAL PULL STATION



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Approval date: 01-21-15

PLAN (E) INSPECTION BUILDING
APPROVED FOR ELECTRICAL WORK ONLY 3/16" = 1'-0"

DESIGN	BY Tommy F. Lee	CHECKED Beatrice Bindu
DETAILS	BY Dali Zhou	CHECKED Tommy F. Lee
QUANTITIES	BY Tommy F. Lee	CHECKED Beatrice Bindu

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 02W0002
POST MILE R7.2

DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE
OFFICE BUILDING FIRE ALARM PLAN

SHEET EE1-13 OF

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	240	262

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Reviewed by: *[Signature]*
 FRANCIS SOLICH
 Approval date: 01-21-15

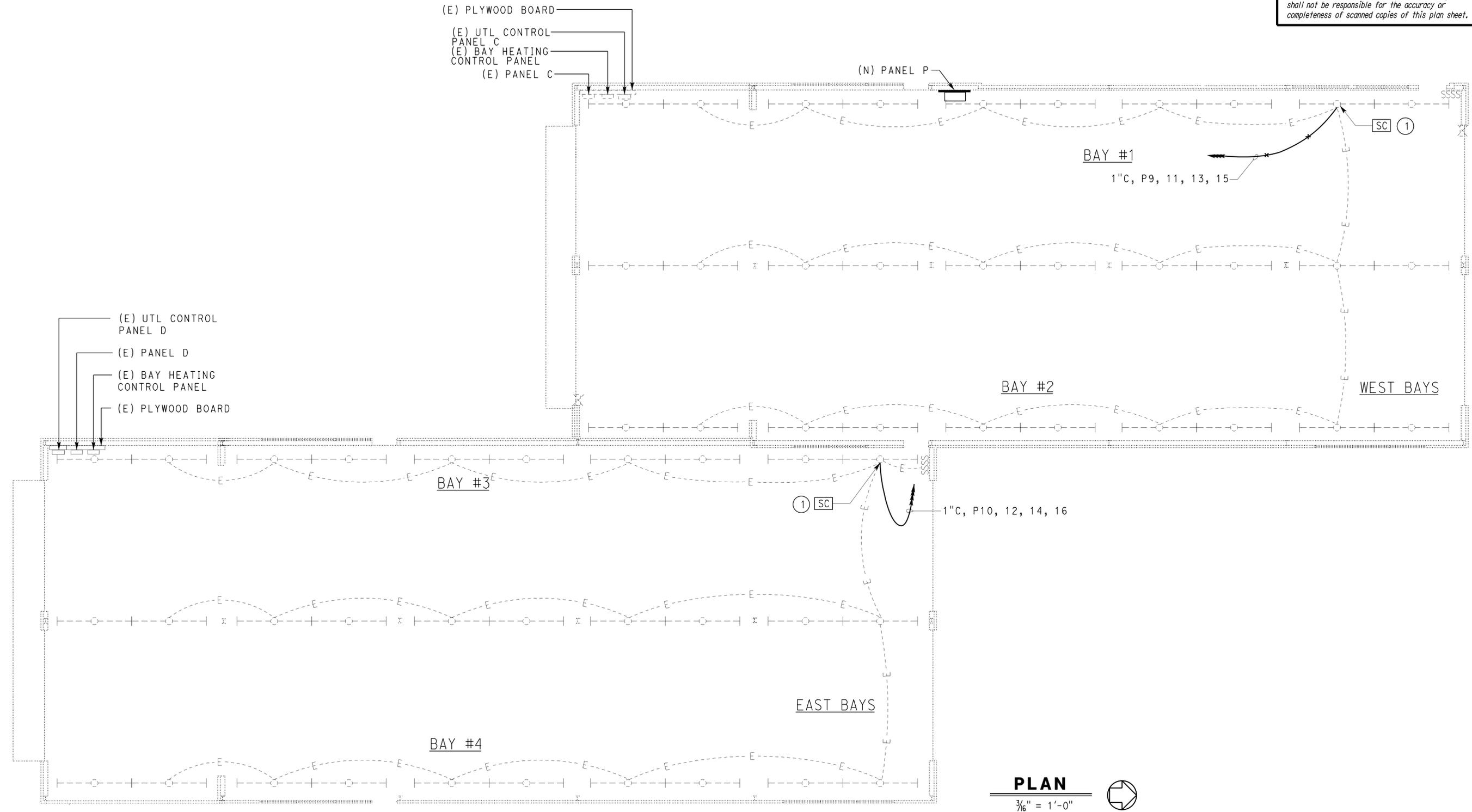
Tommy F. Lee 01-26-15
 REGISTERED ELECTRICAL ENGINEER DATE

08-24-15
 PLANS APPROVAL DATE

Tommy F. Lee
 No. E 18534
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NOTES:
 ① Remove existing feeder conduit and conductors.



PLAN
 $\frac{3}{16}'' = 1'-0''$

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DESIGN BY Tommy F. Lee CHECKED Beatrice Bindu	DETAILS BY Dali Zhou CHECKED Tommy F. Lee	QUANTITIES BY Tommy F. Lee CHECKED Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 02W0002	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE INSPECTION BAYS LIGHTING PLAN	SHEET EE1-15	
					POST MILE R7.2		REVISION DATES (PRELIMINARY STAGE ONLY)	OF
					UNIT: 3597 CONTRACT No.: 02-2E8004 PROJECT NUMBER & PHASE: 0200006031		DISREGARD PRINTS BEARING EARLIER REVISION DATES	9-18-13 4-16-14 5-16-14 1-26-15

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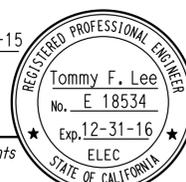
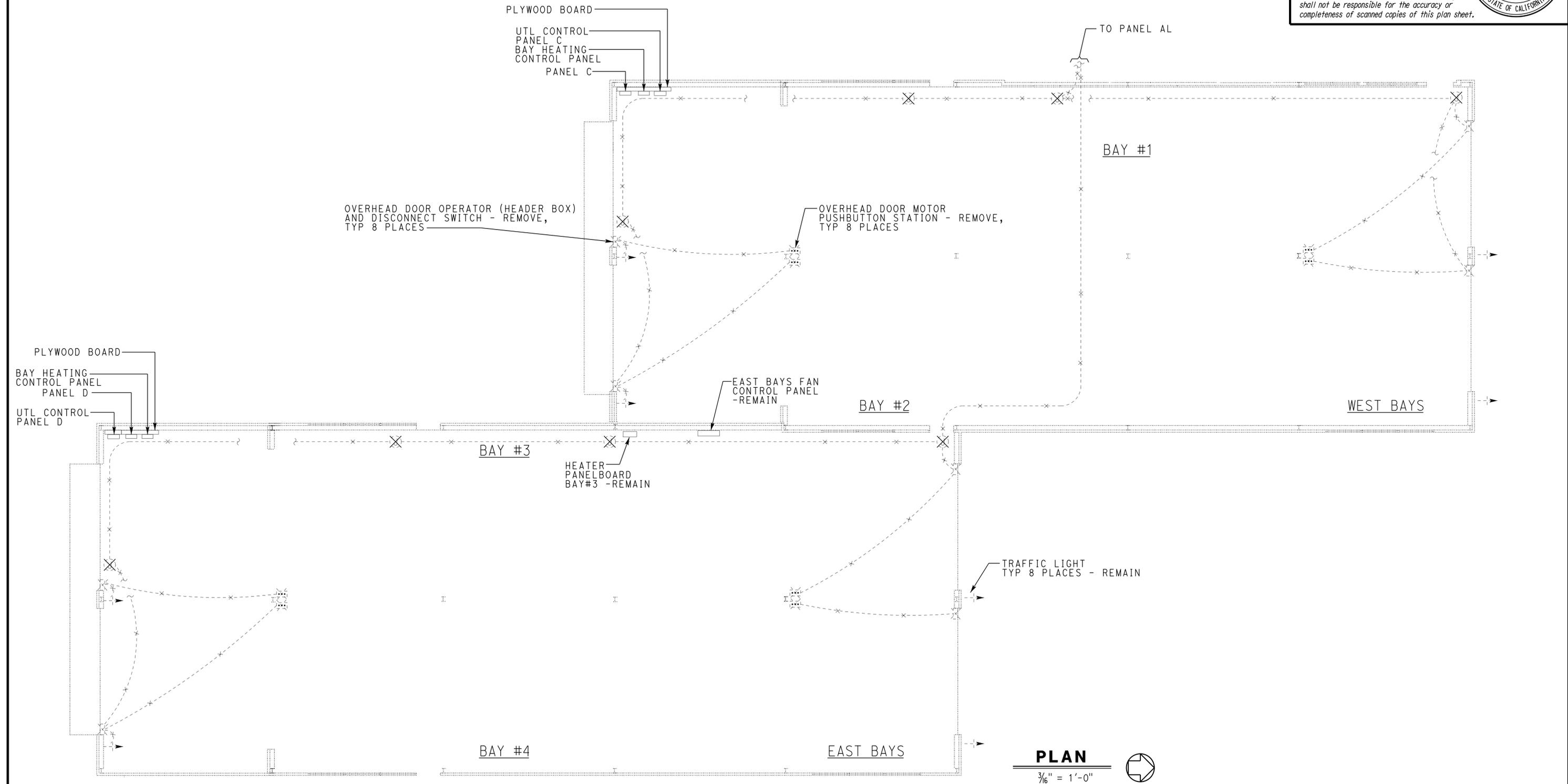
Reviewed by: 
 FRANCIS SOLICH
 Approval date: 01-21-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	241	262

Tommy F. Lee 01-26-15
 REGISTERED ELECTRICAL ENGINEER DATE

08-24-15
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PLAN
 $\frac{3}{16}'' = 1'-0''$

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DESIGN	BY	Tommy F. Lee	CHECKED	Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE		SHEET EE1-16	
	DETAILS	BY	Dali Zhou	CHECKED			Tommy F. Lee	POST MILE	EXISTING OVERHEAD DOORS PLAN		
	QUANTITIES	BY	Tommy F. Lee	CHECKED			Beatrice Bindu	R7.2			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	UNIT: 3597 CONTRACT No.: 02-2E8004 PROJECT NUMBER & PHASE: 0200006031	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	
TAEWW Imperial - CCSC Rev. 02/13 P:\dist_02\020000603_dunsmuir_cvet_improvement\expedit\vee1_16.dgn											

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	242	262

Approved by: **Tommy F. Lee** 01-26-15
 REGISTERED ELECTRICAL ENGINEER DATE
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 Reviewed by: **Francis Solich**
 Approval date: 01-21-15

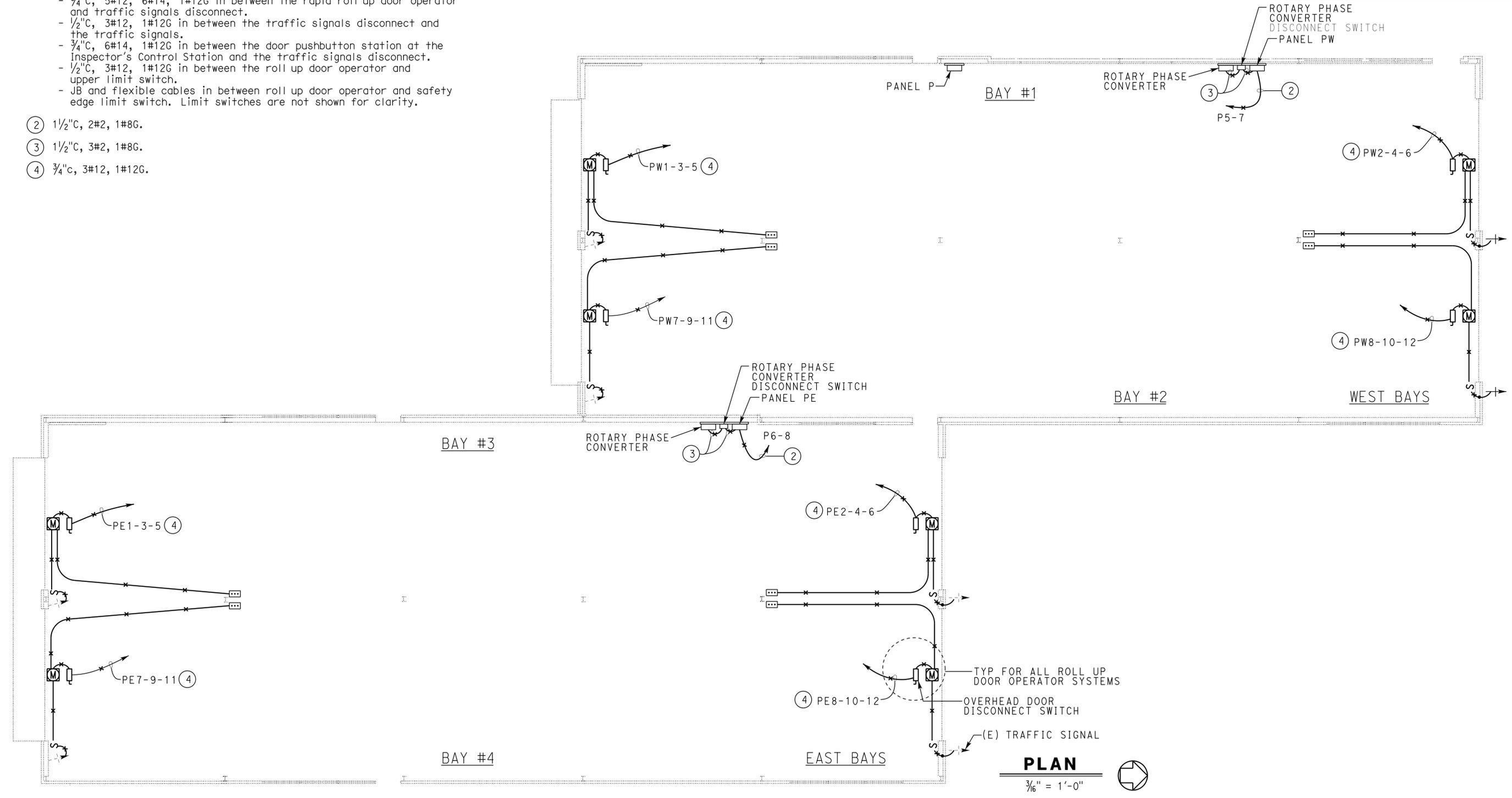
REGISTERED PROFESSIONAL ENGINEER
Tommy F. Lee
 No. E 18534
 Exp. 12-31-16
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NOTES:

- ① Location of overhead door operator is shown arbitrarily only. Exact location depends upon unit furnished. Contractor shall furnish and install any additional conduits, wires, and cables not shown but necessary for the automatic operation of the overhead door. All wires and cables shall be installed in conduits. Install the following conduits for the overhead door operator system:
 - 1/2" C, 3#12, 1#12G in between the JB and roll up door disconnect.
 - 1/2" C, 3#12, 1#12G in between the rapid roll up door disconnect and overhead door motor operator.
 - 3/4" C, 5#12, 6#14, 1#12G in between the rapid roll up door operator and traffic signals disconnect.
 - 1/2" C, 3#12, 1#12G in between the traffic signals disconnect and the traffic signals.
 - 3/4" C, 6#14, 1#12G in between the door pushbutton station at the Inspector's Control Station and the traffic signals disconnect.
 - 1/2" C, 3#12, 1#12G in between the roll up door operator and upper limit switch.
 - JB and flexible cables in between roll up door operator and safety edge limit switch. Limit switches are not shown for clarity.
- ② 1/2" C, 2#2, 1#8G.
- ③ 1/2" C, 3#2, 1#8G.
- ④ 3/4" C, 3#12, 1#12G.

GENERAL NOTES:

- A. For Overhead Doors Schematic Diagram and Details, see sheet EE1-18.
- B. Provide wall mounted platform system for new Rotary Phase Converter.



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DESIGN	BY	Tommy F. Lee	CHECKED	Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 02W0002 POST MILE R7.2	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE MODIFIED OVERHEAD DOORS PLAN	SHEET EE1-17	
	DETAILS	BY	Dali Zhou	CHECKED						Tommy F. Lee
	QUANTITIES	BY	Tommy F. Lee	CHECKED						Beatrice Bindu

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 UNIT: 3597 CONTRACT No.: 02-2E8004 PROJECT NUMBER & PHASE: 02000006031
 DISREGARD PRINTS BEARING EARLIER REVISION DATES: 9-18-13, 4-18-14, 5-16-14, 1-26-15
 REVISION DATES (PRELIMINARY STAGE ONLY)

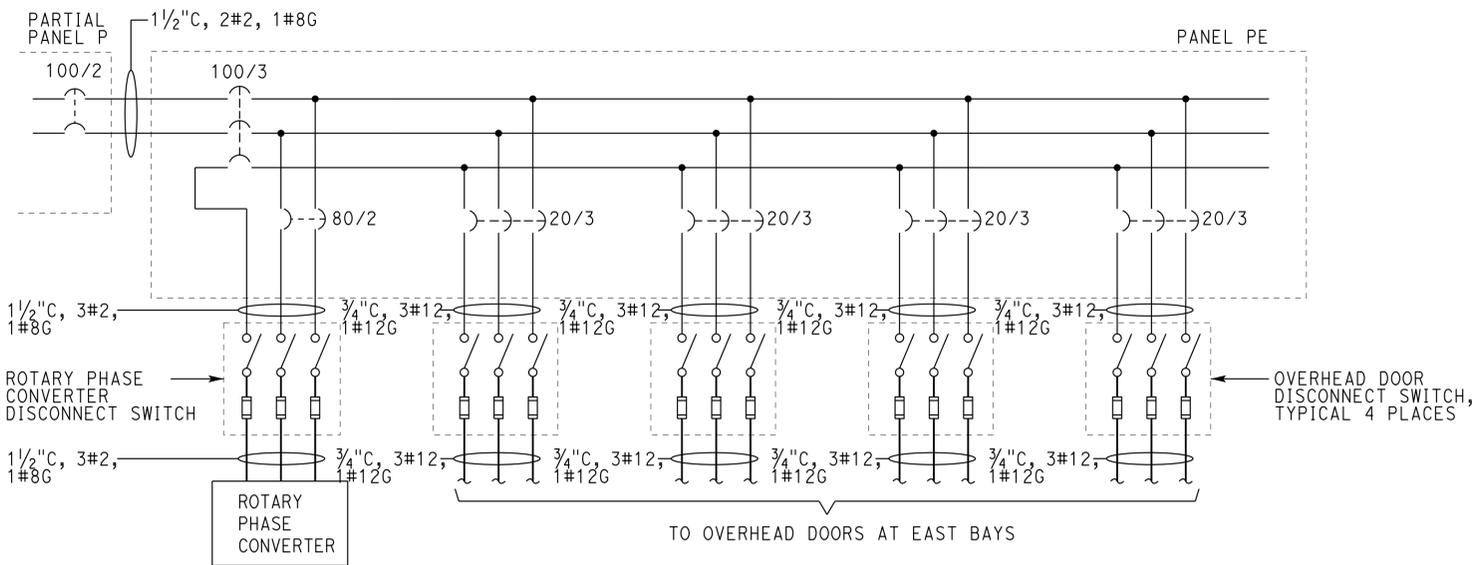
TAEWW Imperial - CCSC Rev. 02/13
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	243	262

Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER
 01-26-15
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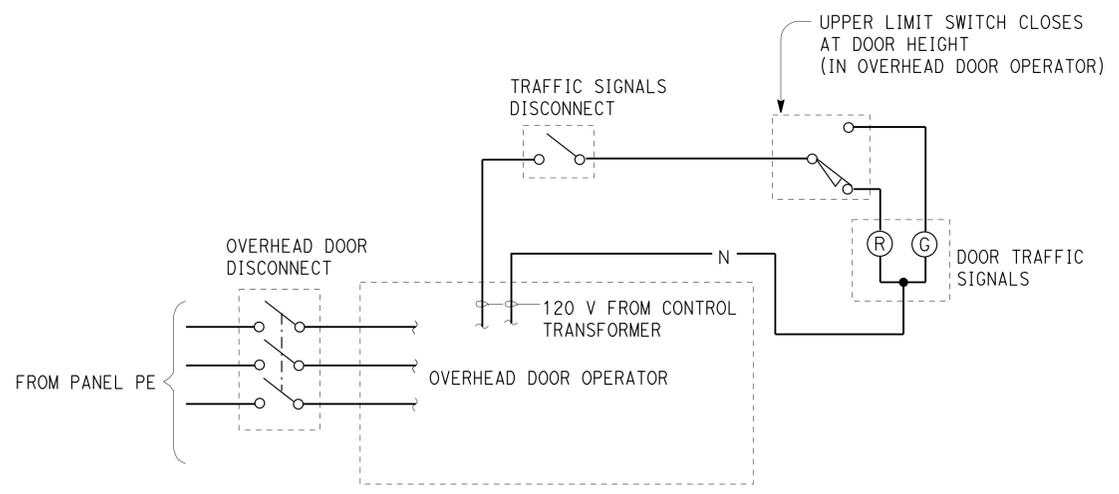


GENERAL NOTES:
 A. Panel schedules for PE and PW, see sheets EE4-3.

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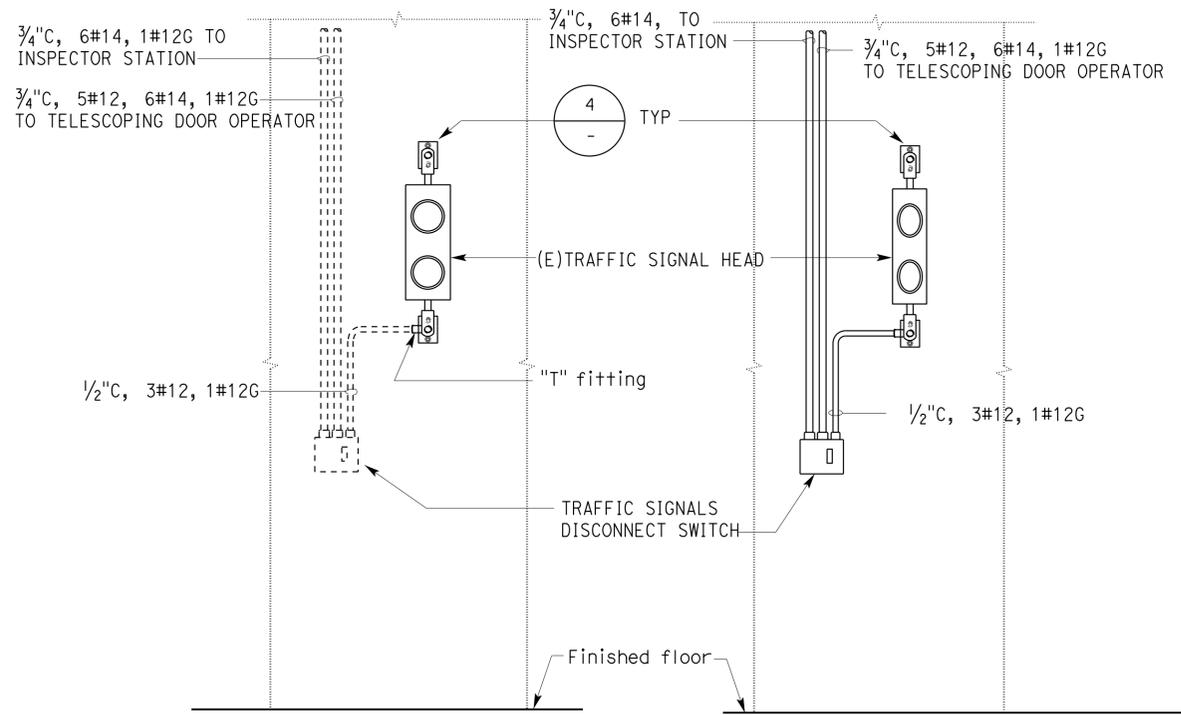
SINGLE LINE DIAGRAM

SIMILAR TO OVERHEAD DOORS AT WEST BAYS



**INSPECTION LANE DOOR
 TRAFFIC SIGNAL SCHEMATIC**

TYPICAL FOR 8 PLACES
 NOTE: RED LIGHT "ON" AT ALL TIMES EXCEPT WHEN DOOR IS FULLY OPEN.



**ENTRANCE DOOR
 EXIT DOOR
 ELEVATION**

1 INSPECTION BAYS SIGNAL DETAIL
 NO SCALE

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DETAILS	BY Dali Zhou	CHECKED Tommy F. Lee
QUANTITIES	BY Tommy F. Lee	CHECKED Beatrice Bindu

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 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

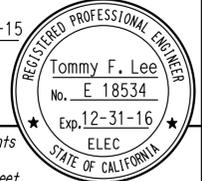
BRIDGE No. 02W0002
 POST MILE R7.2

DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE
 OVERHEAD DOORS SCHEMATIC DIAGRAM AND DETAILS

SHEET OF
EE1-18

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	244	262

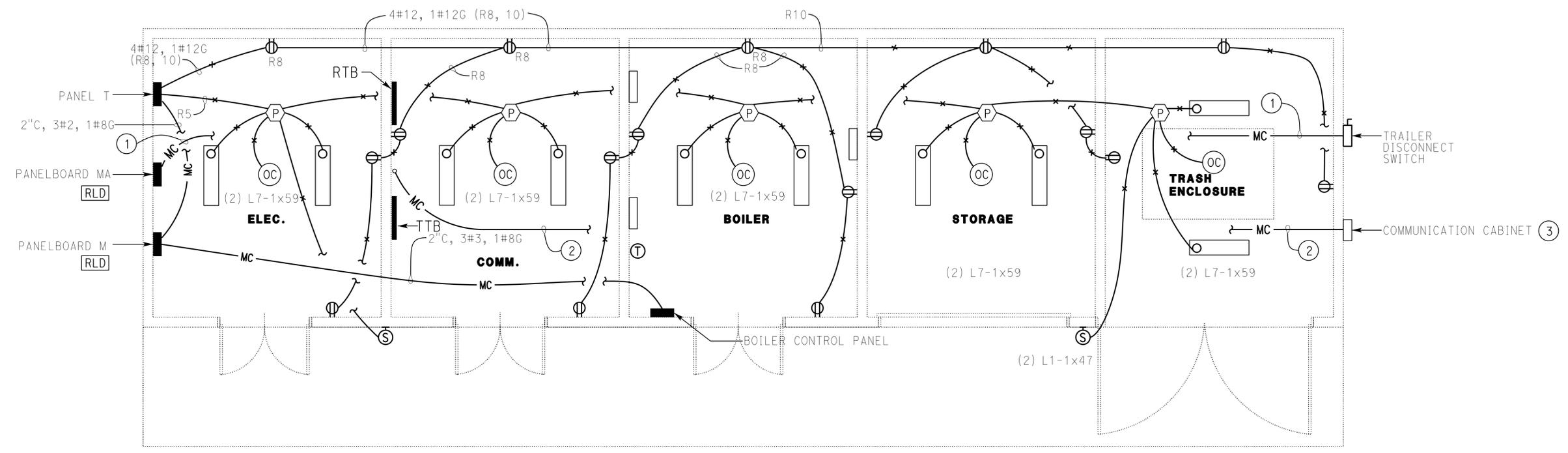
Tommy F. Lee 01-26-15
 REGISTERED ELECTRICAL ENGINEER DATE
 08-24-15
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 FRANCIS SOLICH
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- NOTES:
- ① 4"C, MC, 3#3/0, 1#4G (From Panel MA to Trailer disconnect switch).
 - ② 4"C, MC, pull rope.
 - ③ Communication Cabinet must be single exterior hinged door, dust tight NEMA 3R enclosure, 3' high x 3' wide x 8" deep, and a plywood backboard,

GENERAL NOTE:
 A. For Single Line Diagram, see sheet EE1-4.



PLAN
 Scale : 1/4" = 1'-0"

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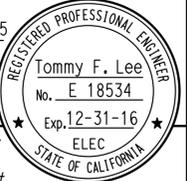
DESIGN BY Tommy F. Lee CHECKED Beatrice Bindu DETAILS BY Dali Zhou CHECKED Tommy F. Lee QUANTITIES BY Tommy F. Lee CHECKED Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 02W0002 POST MILE R7.2	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE UTILITIES BUILDING POWER AND LIGHTING PLAN	SHEET EE2-1 OF
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3597 CONTRACT No.: 02-2E8004 PROJECT NUMBER & PHASE: 0200006031	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 9-18-13 5-16-14 1-26-15	SHEET OF
	TAEWW Imperial - CCSC Rev. 02/13	P:\dist_02\020000603_dunsmuir_cvef_improvement\expedit\vee2_01.dgn			

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	245	262

Tommy F. Lee 01-26-15
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08-24-15
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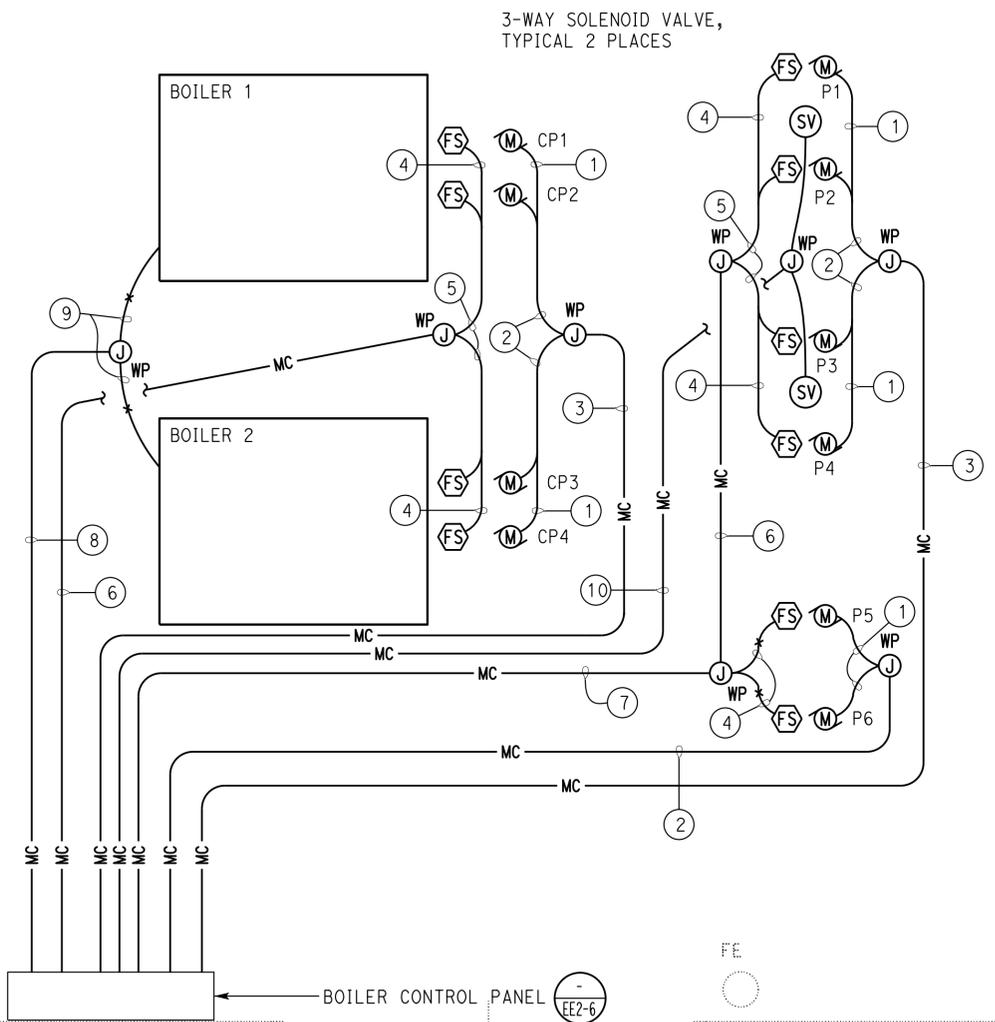
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GENERAL NOTES:

- A. For Boiler schematic and control wiring diagrams, see sheets EE2-3, EE2-4, and EE2-5.
- B. For Boiler Control Panel, see sheet EE2-6.
- C. For exact locations of Boilers, Flow switches, Solenoid valves and Pumps, see Mechanical sheets.
- D. For waterproof junction box detail, see sheet EE3-1.

NOTES:

- ① 1/2"C, 2#10, 1#10G.
- ② 3/4"C, 4#10, 1#10G.
- ③ 1 1/2"C, 8#10, 1#10G.
- ④ 1/2"C, 1 Flow switch cable.
- ⑤ 3/4"C, 2 Flow switch cables.
- ⑥ 1"C, 4 Flow switch cables.
- ⑦ 1 1/2"C, 6 Flow switch cables.
- ⑧ 3/4"C, 4#12, 1#12G.
- ⑨ Terminate conductors inside Boiler's Control Panel.
- ⑩ 1"C, 2 Solenoid valve control cables.

PLAN
 3/4" = 1'-0"

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DESIGN BY Tommy F. Lee CHECKED Beatrice Bindu	DETAILS BY Dali Zhou CHECKED Tommy F. Lee	QUANTITIES BY Tommy F. Lee CHECKED Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 02W0002	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE BOILER ROOM POWER AND LIGHTING PLAN	SHEET 245 OF 262
					POST MILE R7.2		REVISION DATES (PRELIMINARY STAGE ONLY) 9-18-13 4-18-14 5-16-14 1-26-15
TAEWW Imperial - CCSC Rev. 02/13			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT: 3597 CONTRACT No.: 02-2E8004 PROJECT NUMBER & PHASE: 0200006031		DISREGARD PRINTS BEARING EARLIER REVISION DATES

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	246	262

Tommy F. Lee 01-26-15
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REGISTERED PROFESSIONAL ENGINEER
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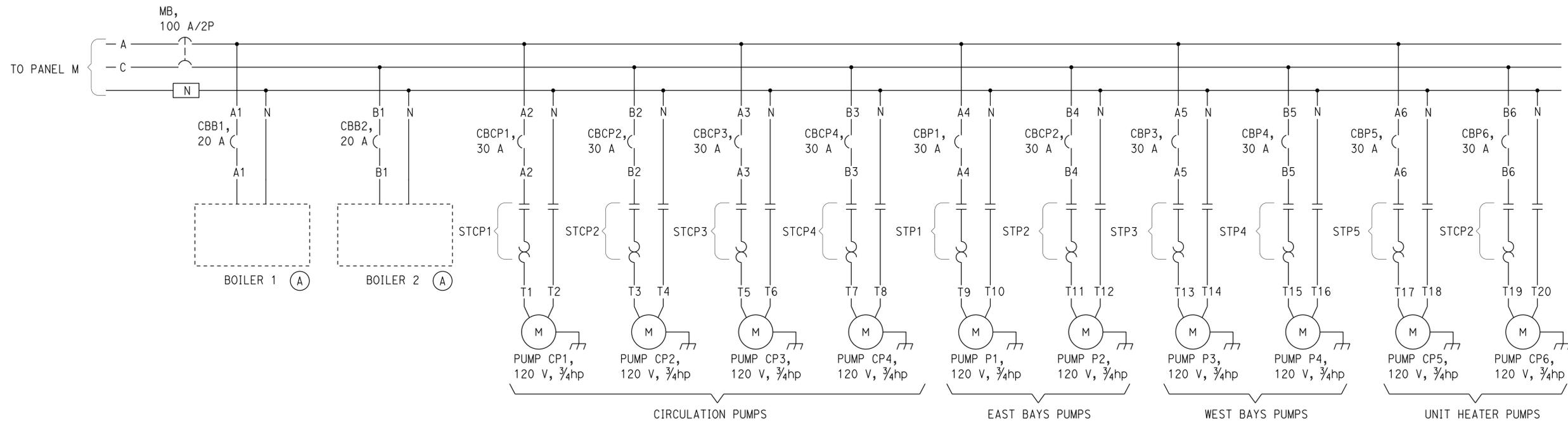
NOTE:

- (A) Boiler unit control power must be always "ON" even during standby and waiting for heat enable signal.

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Reviewed by: FRANCIS SOLICH
 Approval date: 01-21-15



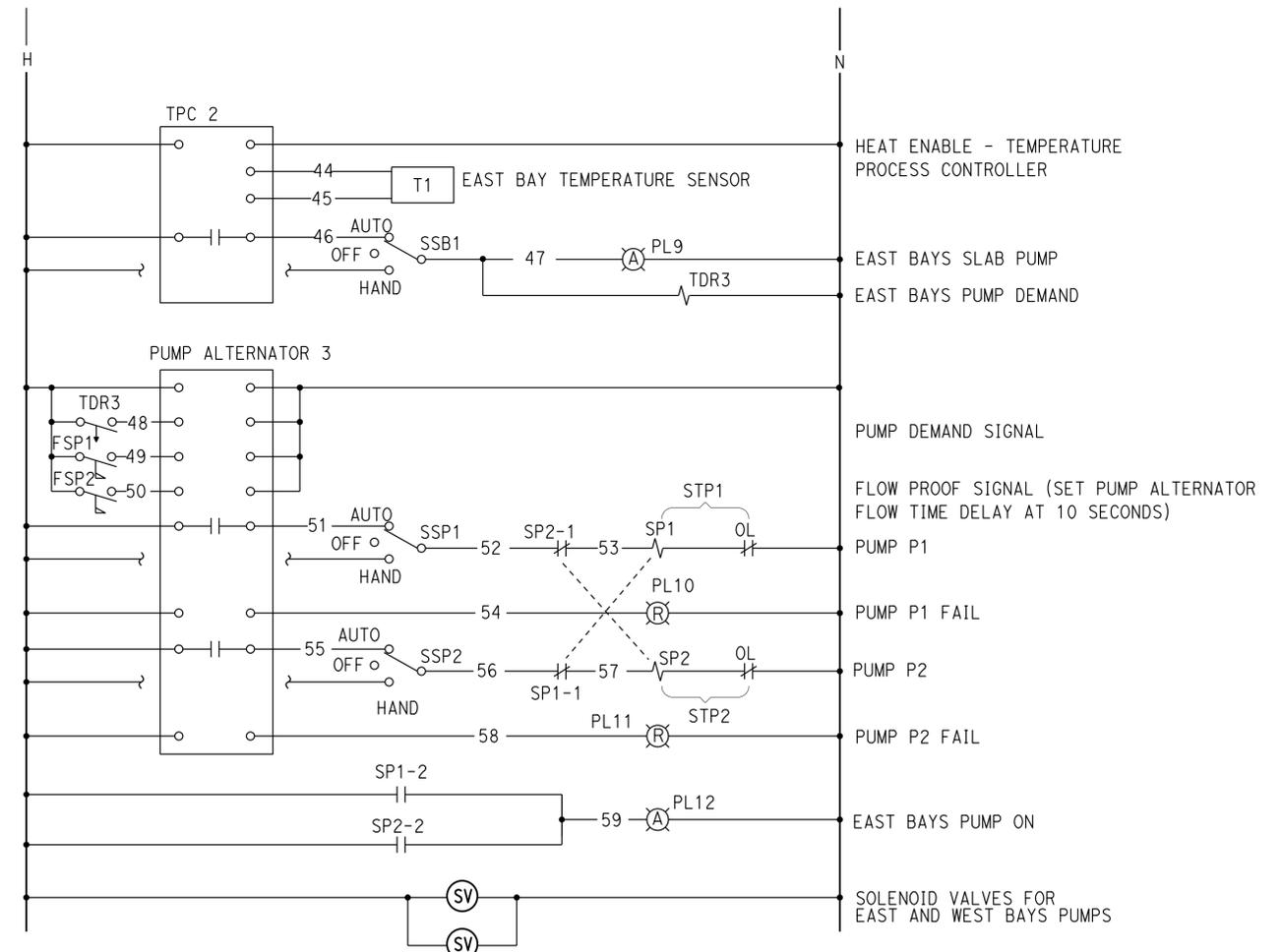
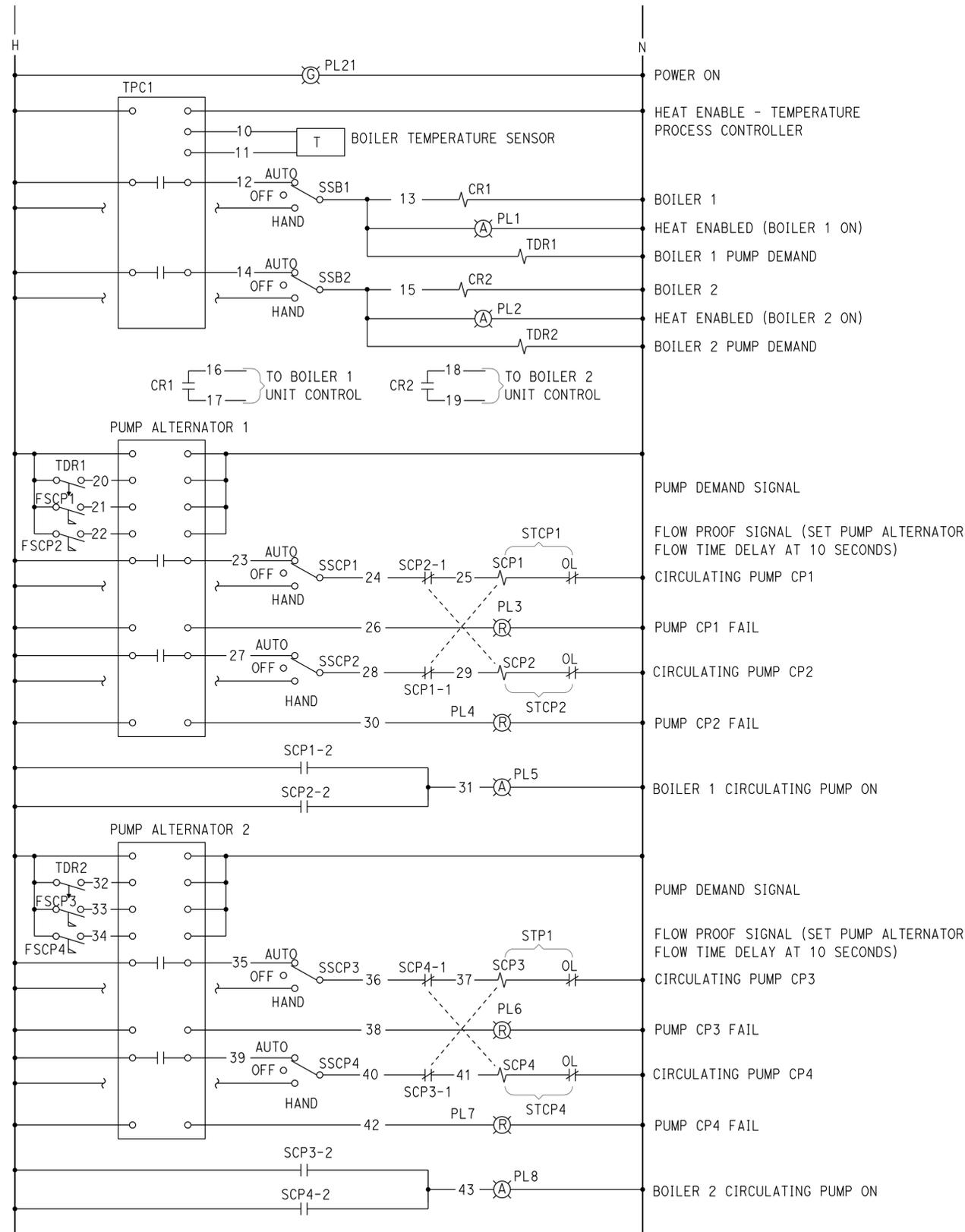
APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY	Tommy F. Lee	CHECKED	Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	02W0002	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE BOILER SCHEMATIC DIAGRAM	SHEET EE2-3	
	DETAILS	BY	Dali Zhou	CHECKED			Tommy F. Lee	POST MILE			R7.2
	QUANTITIES	BY	Tommy F. Lee	CHECKED			Beatrice Bindu	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3			DISREGARD PRINTS BEARING EARLIER REVISION DATES		9-18-13 4-16-14 5-16-14 1-26-15	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	247	262

Tommy F. Lee 01-26-15
 REGISTERED ELECTRICAL ENGINEER DATE
 08-24-2015
 PLANS APPROVAL DATE
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CALIFORNIA STATE FIRE MARSHAL APPROVED
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APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY: Tommy F. Lee	CHECKED: Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 02W0002	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE BOILER CONTROL WIRING DIAGRAM 1	SHEET	
DETAILS BY: Dali Zhou	CHECKED: Tommy F. Lee			POST MILE R7.2		REVISION DATES (PRELIMINARY STAGE ONLY) 9-18-13, 4-16-14, 5-16-14, 1-26-15	OF
QUANTITIES BY: Tommy F. Lee	CHECKED: Beatrice Bindu			UNIT: 3597 CONTRACT No.: 02-2E8004 PROJECT NUMBER & PHASE: 02000006031			DISREGARD PRINTS BEARING EARLIER REVISION DATES

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	248	262

Tommy F. Lee 01-26-15
 REGISTERED ELECTRICAL ENGINEER DATE
 08-24-2015
 PLANS APPROVAL DATE

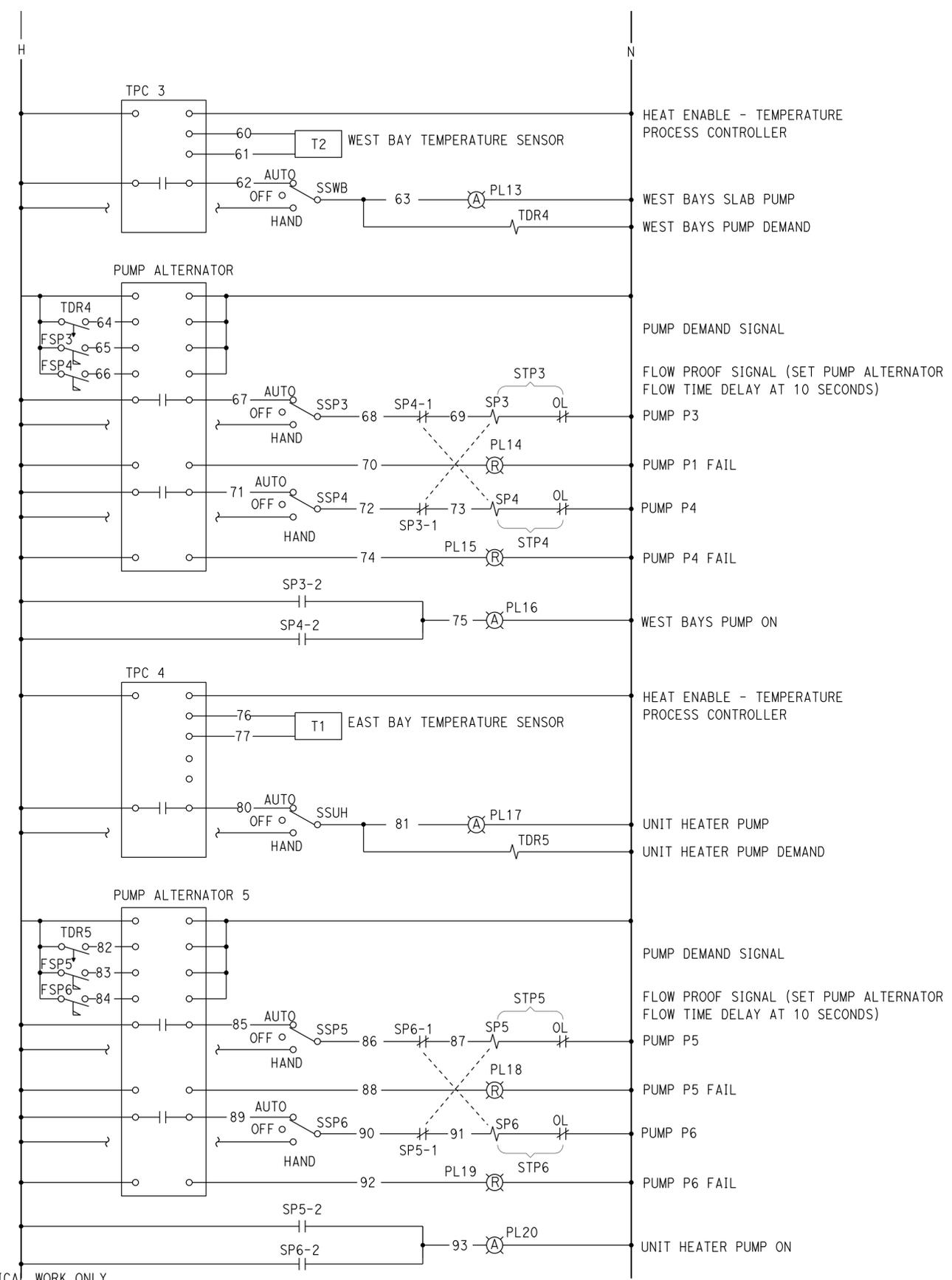
Tommy F. Lee
 No. E 18534
 Exp. 12-31-16
 ELEC
 STATE OF CALIFORNIA

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DESIGN	BY	Tommy F. Lee	CHECKED	Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	02W0002	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE	SHEET EE2-5		
	DETAILS	BY	Dali Zhou	CHECKED			Tommy F. Lee	POST MILE			R7.2	BOILER CONTROL WIRING DIAGRAM 2
	QUANTITIES	BY	Tommy F. Lee	CHECKED			Beatrice Bindu	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	DISREGARD PRINTS BEARING EARLIER REVISION DATES			

UNIT: 3597 CONTRACT No.: 02-2E8004 PROJECT NUMBER & PHASE: 0200006031

REVISION DATES (PRELIMINARY STAGE ONLY): 9-18-13, 4-18-14, 5-16-14, 1-26-15

TAEWW Imperial - CCSC Rev. 02/13

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	249	262

Tommy F. Lee 01-26-15
REGISTERED ELECTRICAL ENGINEER DATE

08-24-2015
PLANS APPROVAL DATE

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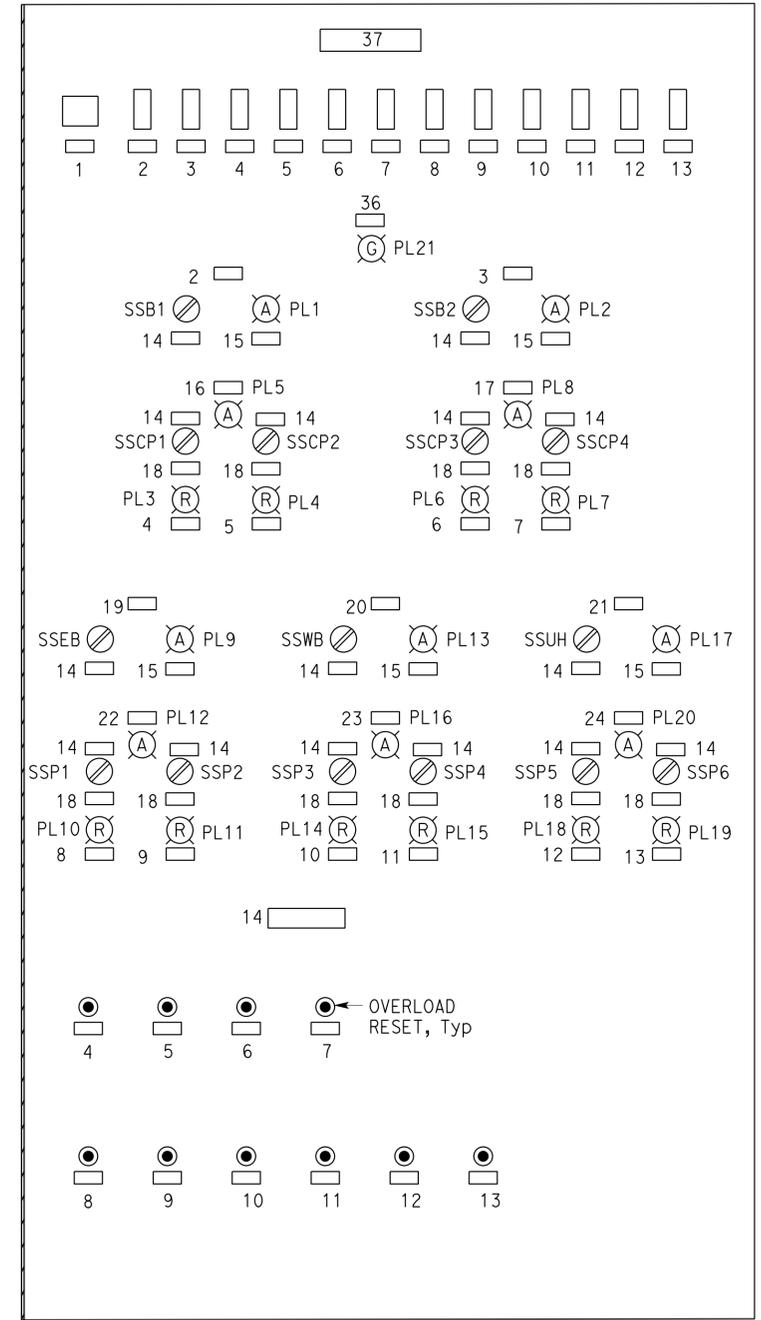
GENERAL NOTE:
Size cabinet as required to fit all devices.

CALIFORNIA STATE FIRE MARSHAL APPROVED

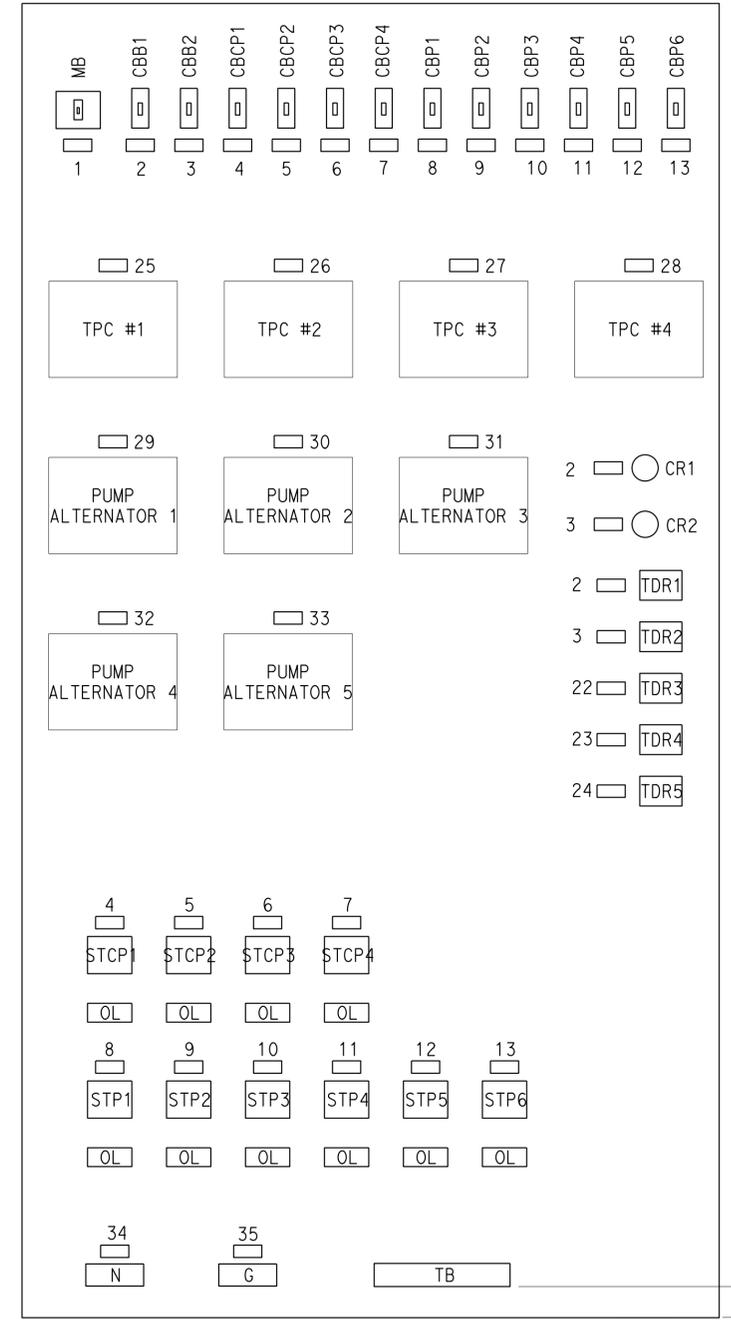
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Reviewed by:
FRANCIS SOLICH
Approval date: 01-21-15

NAMEPLATE SCHEDULE			
TAG No.	TYPE	INSCRIPTION	LETTER HEIGHT
1	PLATE	MAIN CB	3/8"
2	PLATE	BOILER 1	1/4"
3	PLATE	BOILER 2	1/4"
4	PLATE	CIRCULATION PUMP 1	1/4"
5	PLATE	CIRCULATION PUMP 2	1/4"
6	PLATE	CIRCULATION PUMP 3	1/4"
7	PLATE	CIRCULATION PUMP 4	1/4"
8	PLATE	PUMP 1	1/4"
9	PLATE	PUMP 2	1/4"
10	PLATE	PUMP 3	1/4"
11	PLATE	PUMP 4	1/4"
12	PLATE	PUMP 5	1/4"
13	PLATE	PUMP 6	1/4"
14	PLATE	HAND-OFF-AUTO	1/4"
15	PLATE	HEAT ENABLE	1/4"
16	PLATE	BOILER 1 CIRCULATION PUMP	1/4"
17	PLATE	BOILER 2 CIRCULATION PUMP	1/4"
18	PLATE	PUMP FAILED	1/4"
19	PLATE	EAST BAYS SLAB HEATING	3/8"
20	PLATE	WEST BAYS SLAB HEATING	1/4"
21	PLATE	UNIT HEATERS HEATING	1/4"
22	PLATE	EAST BAYS PUMPS	1/4"
23	PLATE	WEST BAYS PUMPS	1/4"
24	PLATE	UNIT HEATERS PUMPS	1/4"
25	PLATE	BOILERS	1/4"
26	PLATE	EAST BAYS	1/4"
27	PLATE	WEST BAYS	1/4"
28	PLATE	UNIT HEATERS	1/4"
29	PLATE	CIRCULATION PUMP 1 & 2	1/4"
30	PLATE	CIRCULATION PUMP 3 & 4	1/4"
31	PLATE	PUMP 1 & 2	1/4"
32	PLATE	PUMP 3 & 4	1/4"
33	PLATE	PUMP 5 & 6	1/4"
34	PLATE	NEUTRAL	1/4"
35	PLATE	GROUND	1/4"
36	PLATE	POWER	1/4"
37	PLATE	BOILER HEATING CONTROL PANEL	1/4"



HINGED DOOR



BACK MOUNTING PANEL

CONTROL PANEL LAYOUT
NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY	Tommy F. Lee	CHECKED	Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 02W0002 POST MILE R7.2	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE BOILER CONTROL PANEL	SHEET EE2-6	
	DETAILS	BY	Dali Zhou	CHECKED						Tommy F. Lee
	QUANTITIES	BY	Tommy F. Lee	CHECKED						Beatrice Bindu

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

UNIT: 3597 CONTRACT No.: 02-2E8004 PROJECT NUMBER & PHASE: 0200006031

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 9-18-13, 4-16-14, 5-16-14, 1-26-15

TAEWW Imperial - CCSC Rev. 02/13

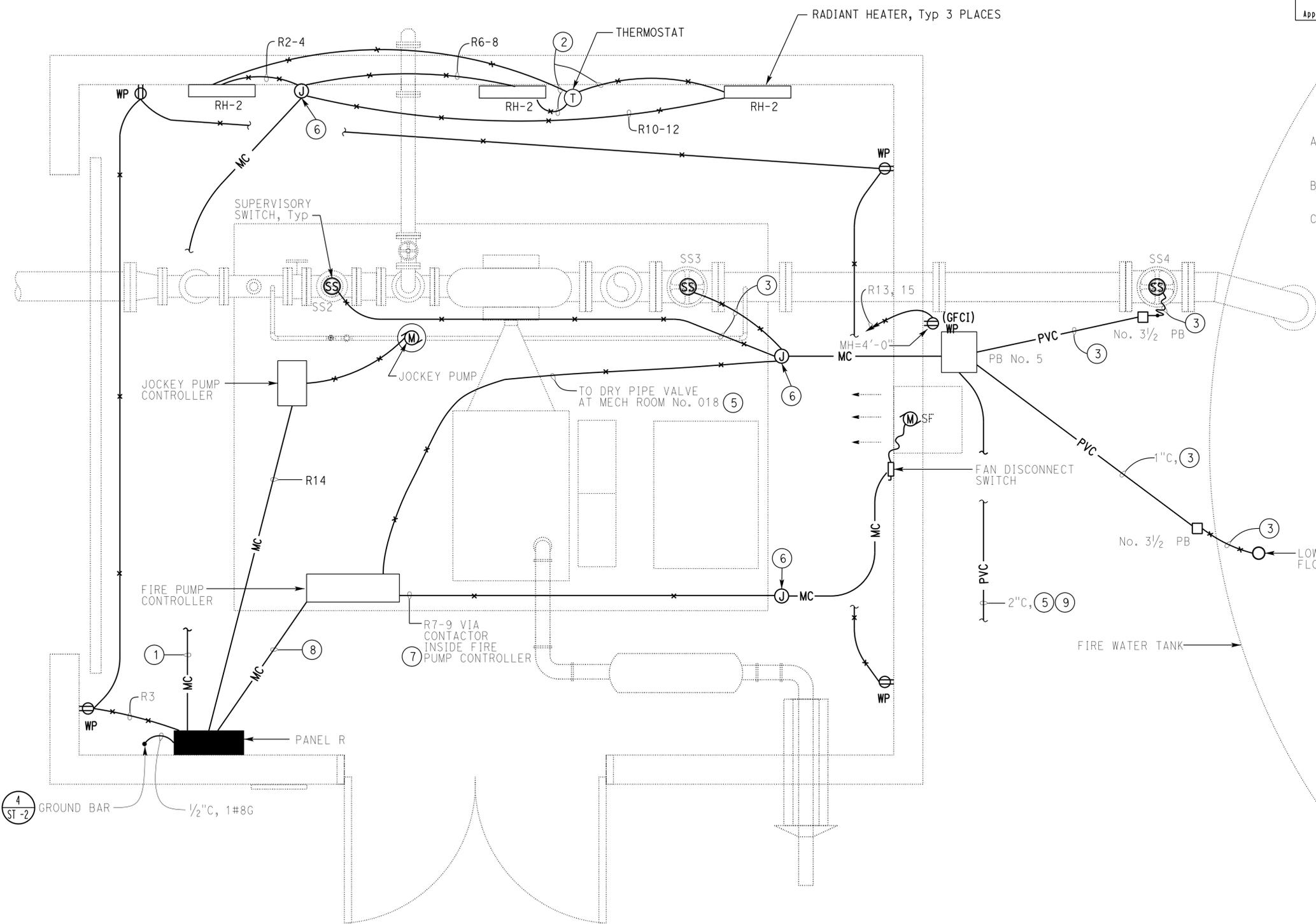
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	250	262

Tommy F. Lee 01-26-15
 REGISTERED ELECTRICAL ENGINEER DATE
 08-24-2015
 PLANS APPROVAL DATE
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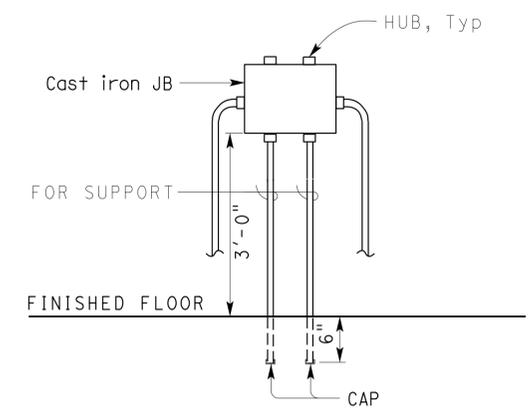
REGISTERED PROFESSIONAL ENGINEER
 Tommy F. Lee
 No. E 18534
 Exp. 12-31-16
 ELEC
 STATE OF CALIFORNIA

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: FRANCIS SOLICH
 Approval date: 01-21-15



- GENERAL NOTES:
- A. All risers and elbows inside building shall be PVC coated RSC. Wrap joints in touch with soil with 2 layers of wrapping tape.
 - B. Remote monitoring and all alarms to be monitored shall meet State Fire Marshal requirements.
 - C. For exact locations of Fire pump, Jockey pump, Controllers, Supervisory switches, Radiant heaters, Fan, and Low water float switch and Thermometer, see Mechanical sheets.

- NOTES:
- ① 3/4" C, 6#12, 1#12G (R2-4, 6-8, 10-12).
 - ② Install conductors as required.
 - ③ Size and number of conductors/cables to Annunciator Panel.
 - ④ Not used.
 - ⑤ Install sensor/control conductors as required.
 - ⑥ For junction box installation, see Detail A on this sheet.
 - ⑦ Fire Pump Controller must have auxiliary contact for the Fan circuit when the engine is running.
 - ⑧ 1" C, 2#12 (R11), 2#12(R7-9), 1#12G.
 - ⑨ For continuation, see sheet EE1-2.



PLAN
 3/4" = 1'-0"

A ELEVATION
 NO SCALE

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DESIGN	BY	Tommy F. Lee	CHECKED	Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	02W0002	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE FIRE PUMP HOUSE AND FIRE TANK POWER PLAN	SHEET	OF		
	DETAILS	BY	Dali Zhou	CHECKED			Tommy F. Lee	POST MILE		R7.2	EE3-1		
	QUANTITIES	BY	Tommy F. Lee	CHECKED			Beatrice Bindu	UNIT: 3597 CONTRACT No.: 02-2E8004 PROJECT NUMBER & PHASE: 02000006031		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	9-18-13	4-16-14

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 TAEWW Imperial - CCSC Rev. 02/13
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MAIN: 60A, 2-POLE CIRCUIT BREAKER
VOLTS: 120/240, SINGLE PHASE, 3-WIRE

PANEL R

FEEDER SIZE: 3#2, 1#8G
LOCATION: PUMP HOUSE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	251	262

Tommy F. Lee
REGISTERED ELECTRICAL ENGINEER DATE 01-26-15
No. E 18534
Exp. 12-31-16
ELEC
STATE OF CALIFORNIA

08-24-2015
PLANS APPROVAL DATE

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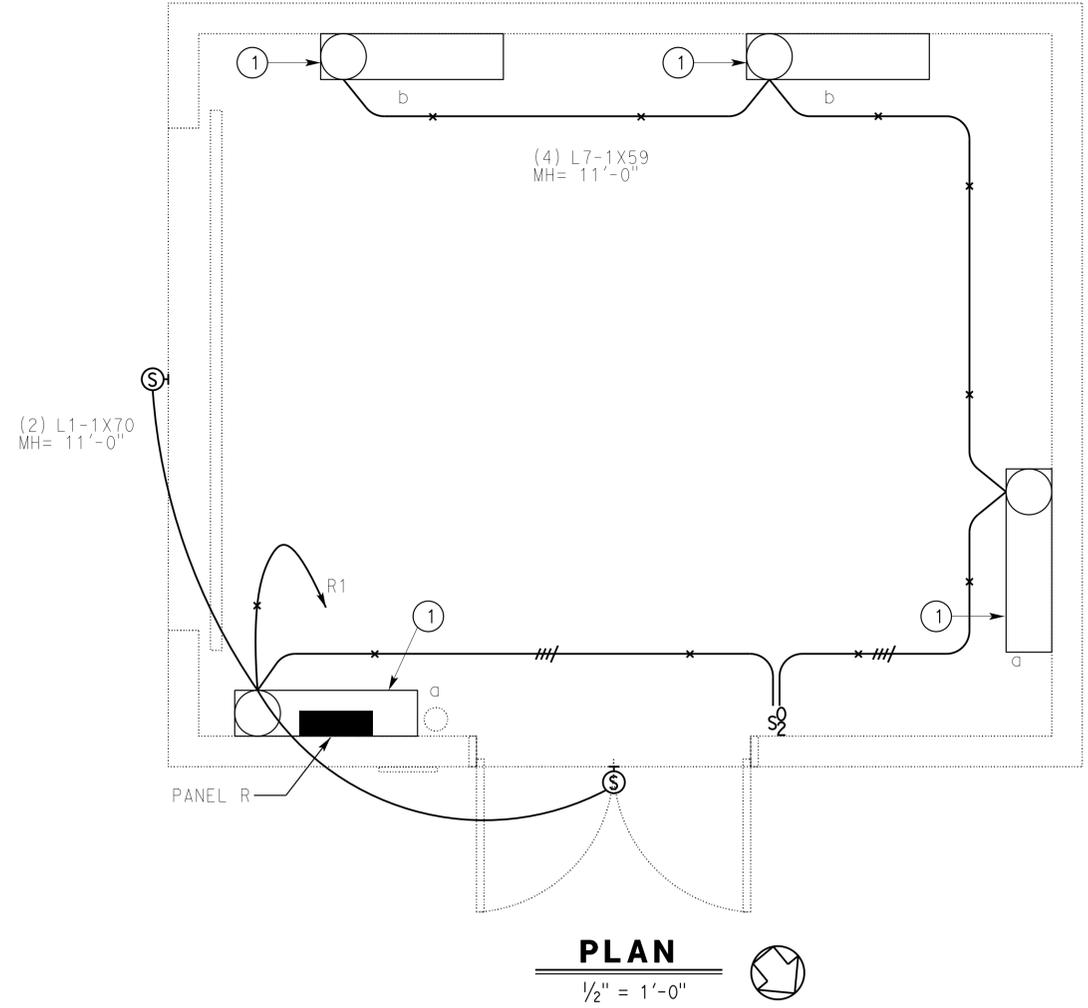
Reviewed by: FRANCIS SOLICH
Approval date: 01-21-15

DESCRIPTION	AMPERES		Brk	Ckt	A	C	Ckt	Brk	AMPERES		DESCRIPTION
	A	C							A	C	
INTERIOR AND EXTERIOR LIGHTING	6		20/1	1			2	20/2	7		RADIANT HEATER 1
RECEPTACLES		6		3			4			7	
SPARE	-			5			6		7		RADIANT HEATER 2
FAN		2	20/2	7			8			7	
	2			9			10		7		RADIANT HEATER 3
② FIRE PUMP CONTROL PANEL		5	20/1	11			12		7		
HEAT TAPE 1	1.5		*	13			14	20/1	10		JOCKEY PUMP CONTROL PANEL
HEAT TAPE 2		1.5	*	15			16				SPARE
SPARE	-			17			18				
				19			20				

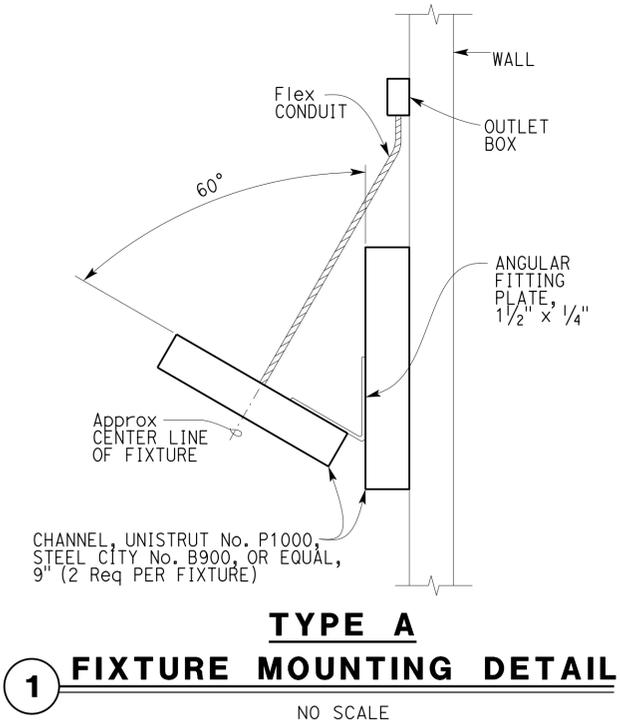
* GFCI CIRCUIT BREAKER

A	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
40.5	35.5	

- NOTES:
- Install light fixture 1'-0" below the ceiling height. For fixture installing, see detail 1 on this sheet.
 - Provide circuit breaker lock to prevent disconnecting power. The circuit breaker must have red handle and must be identified as "FIRE PUMP CONTROL CIRCUIT".



- Mechanical Protection:
- All fire alarm dedicated branch circuit(s) and connections must be mechanically protected.
 - Circuit disconnecting means must have a red marking must be accessible only to authorized personnel, and must be identified as "FIRE PUMP CONTROL CIRCUIT".
 - The location of the circuit disconnecting means must be permanently identified at the fire alarm control unit.



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DESIGN	BY Tommy F. Lee	CHECKED Beatrice Bindu
DETAILS	BY Dali Zhou	CHECKED Tommy F. Lee
QUANTITIES	BY Tommy F. Lee	CHECKED Beatrice Bindu

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 02W0002
POST MILE R7.2

DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE
FIRE PUMP HOUSE
LIGHTING PLAN AND PANEL SCHEDULE

SHEET OF EE3-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	252	262

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 FRANCIS SOLICH
 Approval date: 01-21-15

Tommy F. Lee
 REGISTERED ELECTRICAL ENGINEER DATE 01-26-15
 08-24-2015
 PLANS APPROVAL DATE
 No. E 18534
 Exp. 12-31-16
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 STATE OF CALIFORNIA

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MAIN: 600A CIRCUIT BREAKER FEEDER SIZE: 6 #500KCMIL
 VOLTS: 120/240, 1Ø, 3-WIRE PANEL M LOCATION: ELECTRICAL ROOM

DESCRIPTION	Brk	Ckt	A	C	Ckt	Brk	DESCRIPTION
SPACE		1	•		2	400/2	PANELBOARD AL SECTION 1&2
		3		•	4		
MODULAR OFFICE PANELBOARD	* 200/2	5	•		6	200/2	PANEL E (SCALE HOUSE)
		7		•	8		
PANELBOARD G (GENERATOR ROOM)	110/2	9	•		10	100/2	PMCU (MECHANICAL ROOM)
		11		•	12		
SPARE	100/2	13	•		14		SPACE
		15		•	16		
SPACE		17	•		18	90/2	BOOSTER PUMP CONTROL PANELBOARD
		19		•	20		

* SALVAGE 200A, 2-POLE CB AND REPLACE WITH 250A, 2-POLE CB

MAIN: 600A CIRCUIT BREAKER FEEDER SIZE: 6 #500 KCMIL, 1 #1 G
 VOLTS: 120/240, 1Ø, 3-WIRE PANEL M LOCATION: ELECTRICAL ROOM

DESCRIPTION	Brk	Ckt	A	C	Ckt	Brk	DESCRIPTION
SPACE		1	•		2	400/2	PANEL P (BAY#1)
		3		•	4		
PANEL S (ELEC/SERVER)	250/2	5	•		6	200/2	PANEL E (SCALE HOUSE)
		7		•	8		
PANELBOARD G (GENERATOR ROOM)	110/2	9	•		10	100/2	BOILER CONTROL PANEL (BOILER RM)
		11		•	12		
PANEL T	100/2	13	•		14		SPACE
		15		•	16		
SPACE		17	•		18	90/2	BOOSTER PUMP CONTROL PANELBOARD
		19		•	20		

MAIN: 600A CIRCUIT BREAKER FEEDER SIZE: 6 #500KCMIL
 VOLTS: 120/240, 1Ø, 3-WIRE PANEL M1 LOCATION: ELECTRICAL ROOM

DESCRIPTION	Brk	Ckt	A	C	Ckt	Brk	DESCRIPTION
HEATER PANELBOARD BAY#1	225/2	1	•		2	200/2	HEATER PANELBOARD BAY#3
		3		•	4		
ROTARY PHASE CONVERTER PANEL	100/2	5	•		6		SPACE
		7		•	8		
SPACE		9	•		10		SPACE
		11		•	12		
		13	•		14		
		15		•	16		
		17	•		18		
		19		•	20		

EXISTING

MAIN: 600A CIRCUIT BREAKER FEEDER SIZE: 6#500 KCMIL, 1 #1 G
 VOLTS: 120/240, 1Ø, 3-WIRE PANEL MA LOCATION: ELECTRICAL ROOM

DESCRIPTION	Brk	Ckt	A	C	Ckt	Brk	DESCRIPTION
HEATER PANELBOARD BAY#1	225/2	1	•		2	200/2	HEATER PANELBOARD BAY#3
		3		•	4		
(E) ROTARY PHASE CONVERTER PANEL BAY #1	100/2	5	•		6	100/2	SPACE
		7		•	8		
SPACE		9	•		10		SPACE
		11		•	12		
		13	•		14		
		15		•	16		
		17	•		18		
		19		•	20		

MODIFIED

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DESIGN BY Tommy F. Lee	CHECKED Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 02W0002	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE PANEL SCHEDULE 1	SHEET EE4-1
DETAILS BY Dali Zhou	CHECKED Tommy F. Lee			POST MILE R7.2		
QUANTITIES BY Tommy F. Lee	CHECKED Beatrice Bindu					

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
 UNIT: 3597 CONTRACT No.: 02-2E8004 PROJECT NUMBER & PHASE: 02000006031
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES (PRELIMINARY STAGE ONLY)
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NOTES:

- 1. Provide circuit breaker lock to prevent disconnecting power. The circuit breaker must have red handle and must be identified as "FIRE ALARM CIRCUIT".

Mechanical Protection:

- 1. All fire alarm dedicated branch circuit(s) and connections must be mechanically protected.
- 2. Circuit disconnecting means must have a red marking must be accessible only to authorized personnel, and must be identified as "FIRE ALARM CIRCUIT".
- 3. The location of the circuit disconnecting means must be permanently identified at the fire alarm control unit.

GENERAL NOTES:

- A. Provide warning label to all Panelboards, see the label detail on sheet EE4-3.

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 Approval date: 01-21-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	253	262

Tommy F. Lee 01-26-15
 REGISTERED ELECTRICAL ENGINEER DATE
 08-24-2015
 PLANS APPROVAL DATE

Tommy F. Lee
 No. E 18534
 Exp. 12-31-16
 ELEC
 STATE OF CALIFORNIA

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MAIN: 400A CIRCUIT BREAKER
 VOLTS: 120/240, 1*, 3-WIRE

PANEL P

FEEDER SIZE: 3#350 KCMIL
 LOCATION: INSPECTION BAY

DESCRIPTION	AMPERES		Brk	Ckt	A	C	Ckt	Brk	AMPERES		DESCRIPTION
	A	C							A	C	
PANEL C	58		100/2	1			2	100/2	58		PANEL D
		52		3			4			52	
WEST BAYS OVERHEAD PANEL PW	40		100/2	5			6	100/2	40		EAST BAYS OVERHEAD PANEL PE
		40		7			8			40	
OVERHEAD LIGHTS WEST BAY	10		20/1	9			10	20/1	10		OVERHEAD LIGHTS EAST BAY
OVERHEAD LIGHTS WEST BAY		10		11			12	20/1		10	OVERHEAD LIGHTS EAST BAY
OVERHEAD LIGHTS WEST BAY	10			13			14	20/1	10		OVERHEAD LIGHTS EAST BAY
OVERHEAD LIGHTS WEST BAY		10		15			16	20/1		10	OVERHEAD LIGHTS EAST BAY
UNIT HEATER BAY#1 (N)	5			17			18	30/2	19		SNOW MELTING HEATING TRANSFORMER #1 AND #2
UNIT HEATER BAY#1 (S)		5		19			20			19	
TC3 & TC4	4			21			22	30/2	19		SNOW MELTING HEATING TRANSFORMER #3 AND #4
UTL FAN		2		23			24			19	
ALARM BELL	3			25			26	30/2	19		SNOW MELTING HEATING TRANSFORMER #5 AND #6
AMPLIFIED SPEAKERS		1		27			28			19	
SPARE	-			29			30	20/1	-		SPARE
		-		31			32			-	
		-		33			34			-	
		-		35			36				SPACE
		-		37			38				
		-		39			40				
		-		41			42				

A	C	
335	289	TOTAL CONNECTED LOAD (AMPERES PER PHASE)

MAIN: 250A, 2-POLE, CIRCUIT BREAKER
 VOLTS: 120/240v, SINGLE PHASE, 3-WIRE

PANEL S

FEEDER SIZE: 3#250, 1#4G
 LOCATION: ELEC/SERVER ROOM

DESCRIPTION	AMPERES		Brk	Ckt	A	C	Ckt	Brk	AMPERES		DESCRIPTION
	A	C							A	C	
MIS RECP - RM 026, 003	10.5		20/1	1			2	50/2	20		CONDENSER UNIT 1
MIS RECP - RM 005, 006		7.5		3			4			20	
RECP - RM 001, 002, 003	15			5			6	50/2	20		CONDENSER UNIT 2
RECP - RM 002, 003, 026, 029		13.5		7			8		20		CONDENSER UNIT 3
RECP - EWC RM 002	1.5			9			10	50/2	20		
SPARE		-		11			12		20		
RECP - RM 005, 006	15			13			14	20/1	11		FUR-1
RECP - RM 015,016,017,018,019,020		15		15			16	20/1		11	FUR-2
RECP - RM 021,022,023,024,025,027	15			17			18	20/1	11		FUR-3
RECP - RM 012, 014		7.5		19			20	20/1		3.6	TWH-1, TWH-2
RECP - RM 010, 011	12			21			22		4		SLIDING DOORS
RECP - RM 007, 008, 009		15		23			24		13.5		CHLF 022
RECP - REFRIGERATOR	1.5			25			26		13.5		CHLF 025
RECP - COUNTER TOP		3		27			28		15		EF-4, EF-5, EF-8
VENT HOOD	2.3			29			30		10		EF-6, EF-7
RECP - GARBAGE DISPOSAL		6.9		31			32	20/2	4.2		RH-1
RECP - GAS COOKTOP, ATTIC	1.5			33			34		4.2		
ELECTRIC WATER HEATER		12.5	20/2	35			36	20/1	14.9		LIGHT - EXTER., ATTIC RM 207,001
	12.5			37			38		17.2		LIGHT - RM2,3,VEST2,5,6,9,29
FIRE ALARM CONTROL PANEL		2	20/1	39			40		17.9		LIGHT - RM8AB, 010 THRU 026
INTRUSION ALARM CONTROL PANEL	2			41			42		-		SPARE

A	C	
219.7	224.5	TOTAL CONNECTED LOAD (AMPERES PER PHASE)

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY Tommy F. Lee	CHECKED Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 02W0002	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE PANEL SCHEDULE 2	SHEET EE4-2
DETAILS BY Dali Zhou	CHECKED Tommy F. Lee			POST MILE R7.2		
QUANTITIES BY Tommy F. Lee	CHECKED Beatrice Bindu					

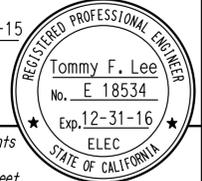
UNIT: 3597 CONTRACT No.: 02-2E8004 PROJECT NUMBER & PHASE: 0200006031
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES (PRELIMINARY STAGE ONLY)
 2-24-14 4-16-14 5-16-14 1-26-15

TAEWW Imperial - CCSC Rev. 02/13 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

P:\dist_02\020000603_dunsmuir_cvef_improvement\expedite\ee4_02.dgn

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	254	262

Approved by: *Tommy F. Lee* 01-26-15
 REGISTERED ELECTRICAL ENGINEER DATE
 08-24-2015
 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: 01-21-15

MAIN: 100A CIRCUIT BREAKER
 VOLTS: 240/120V, 3-PHASE, 4-WIRE
 PANEL PE
 FEEDER SIZE: 2#2, 1#8G
 LOCATION: EAST BAYS INSPECTION

DESCRIPTION	AMPERES			Brk	Ckt	A	B	C	Ckt	Brk	AMPERES			DESCRIPTION	
	A	B	C								A	B	C		
SOUTHWEST OVERHEAD DOOR	10			20/3	1	•			2	20/3	10			NORTHWEST OVERHEAD DOOR	
		10			3	•			4			10			
			10		5	•		•	6				10		
SOUTHEAST OVERHEAD DOOR	10			20/3	7	•			8	20/3	10			NORTHEAST OVERHEAD DOOR	
		10			9	•			10			10			
			10		11	•		•	12				10		
SPARE	-			20/1	13	•			14	20/1	-			SPARE	
SPACE					15		•		16					SPACE	
ROTARY PHASE CONVERTER			48	80/3	17			•	18	20/1			-	SPARE	
	48				19	•			20		-				
SPACE					21			•	22					SPACE	
					23			•	24						

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
88	40	88	

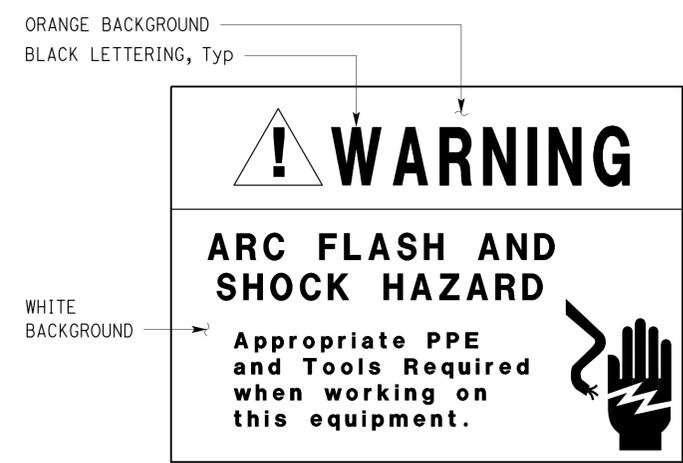
GENERAL NOTES:

- A. Panel PW is similar to Panel PE and Panel PW is located at West Bays inspection.
- B. Provide warning label to all Panelboards, see the label detail on this sheet.

MAIN: 100 A, 2-POLE CIRCUIT BREAKER
 VOLTS: 120/240V, SINGLE PHASE, 3-WIRE
 PANEL T
 FEEDER SIZE:
 LOCATION: ELEC AT UTILITY BUILDING

DESCRIPTION	AMPERES		Brk	Ckt	A	C	Ckt	Brk	AMPERES		DESCRIPTION
	A	C							A	C	
ELECTRIC VAPORIZE	17		20/2	1	•		2	60/2	40.5		PANEL R
		17		3	•	4	45.5				
LIGHTS - UTILITY BUILDING	8		20/1	5	•		6	20/1	16		RECP - UTILITY BUILDING
SPARE		-		7	•		8		9		RECP - STORAGE, TRASH
	-			9	•		10		-		SPARE
		-		11	•		12		-		
	-			13	•		14		-		
				15	•		16				
				17	•		18				
				19	•		20				

A	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
81.5	71.5	



1 WARNING LABEL
NO SCALE

Warning label must be constructed with high degree of chemical abrasion, heat resistance and UL recognized material.

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY Tommy F. Lee CHECKED Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 02W0002	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE	SHEET EE4-3	
			POST MILE R7.2			PANEL SCHEDULE 3
DETAILS BY Dali Zhou CHECKED Tommy F. Lee	UNIT: 3597 CONTRACT No.: 02-2E8004 PROJECT NUMBER & PHASE: 0200006031	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF		

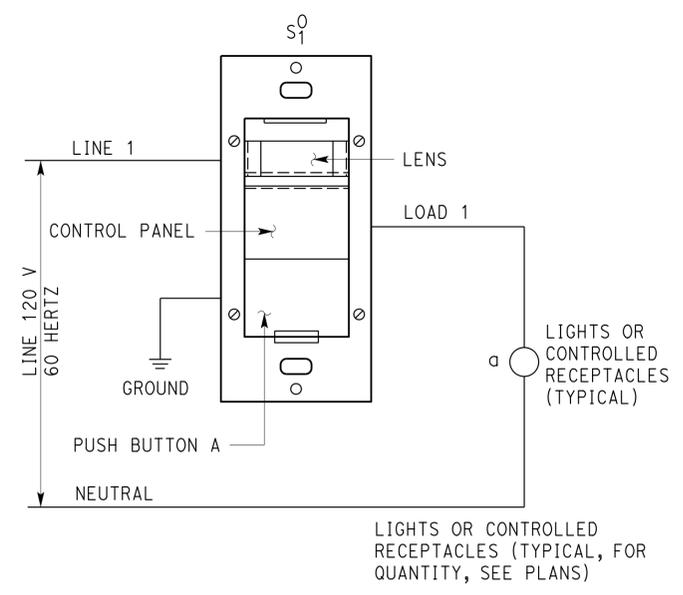
TAEWW Imperial - CCSC Rev. 02/13
 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 P:\dist_02\020000603_dunsmuir_cvef_improvement\expedite\ee4_03.dgn

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	5	R7.2	255	262

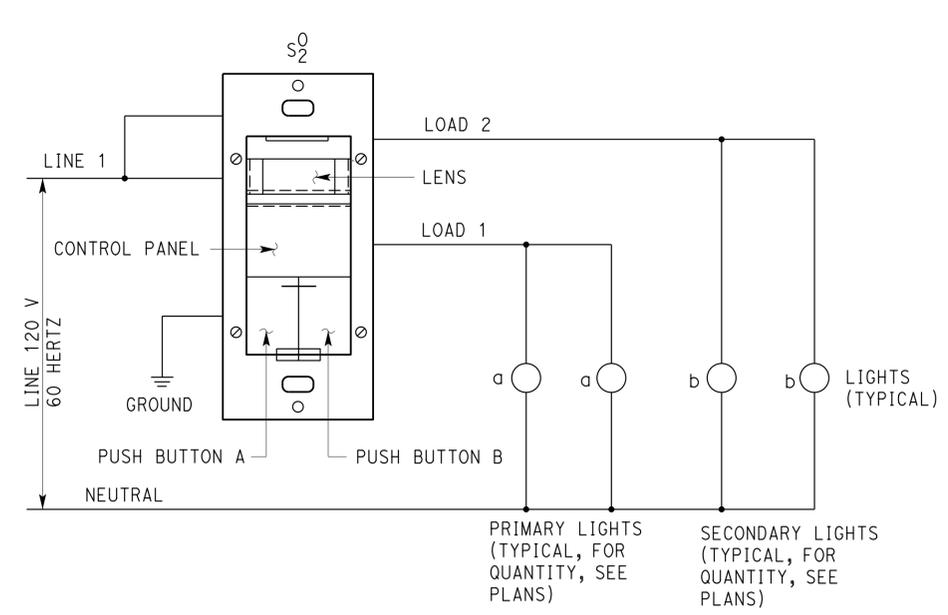
Approved by: **Tommy F. Lee** 01-26-15
 REGISTERED ELECTRICAL ENGINEER DATE
 08-24-2015
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER
 Tommy F. Lee
 No. E 18534
 Exp. 12-31-16
 ELEC
 STATE OF CALIFORNIA

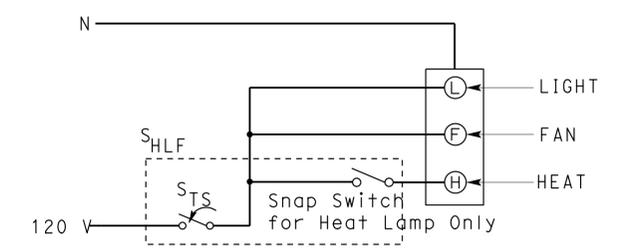
CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: **Francis Solich**
 Approval date: 01-21-15



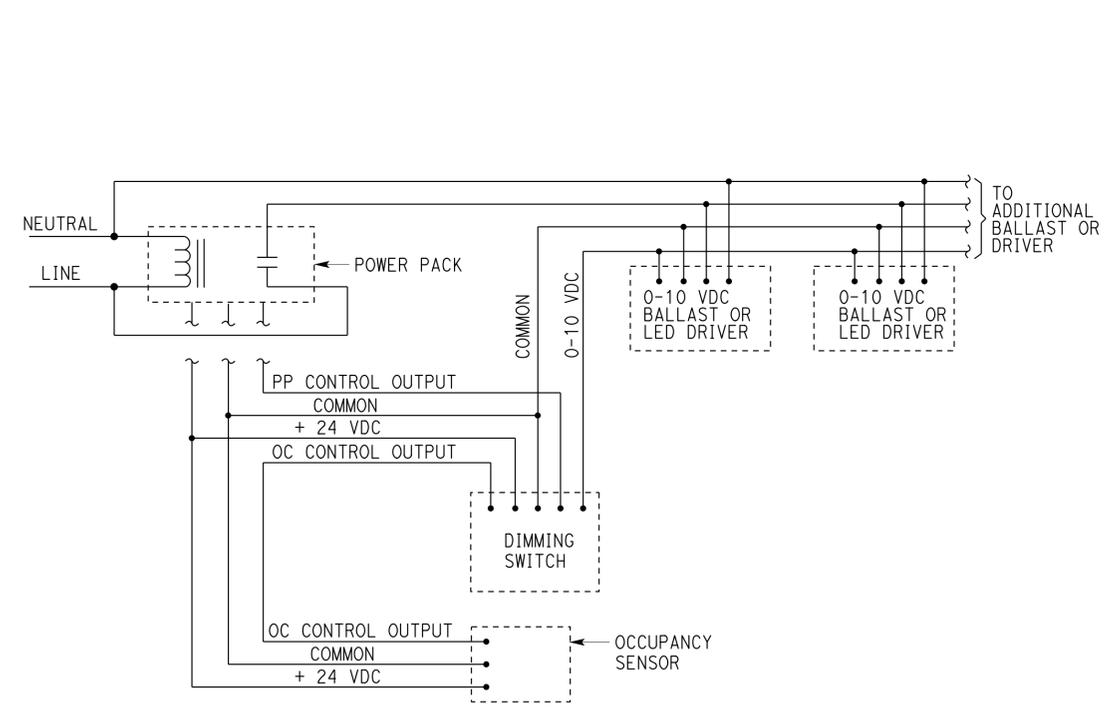
1 WALL SWITCH OCCUPANCY SENSOR TYPE 1 WIRING DIAGRAM



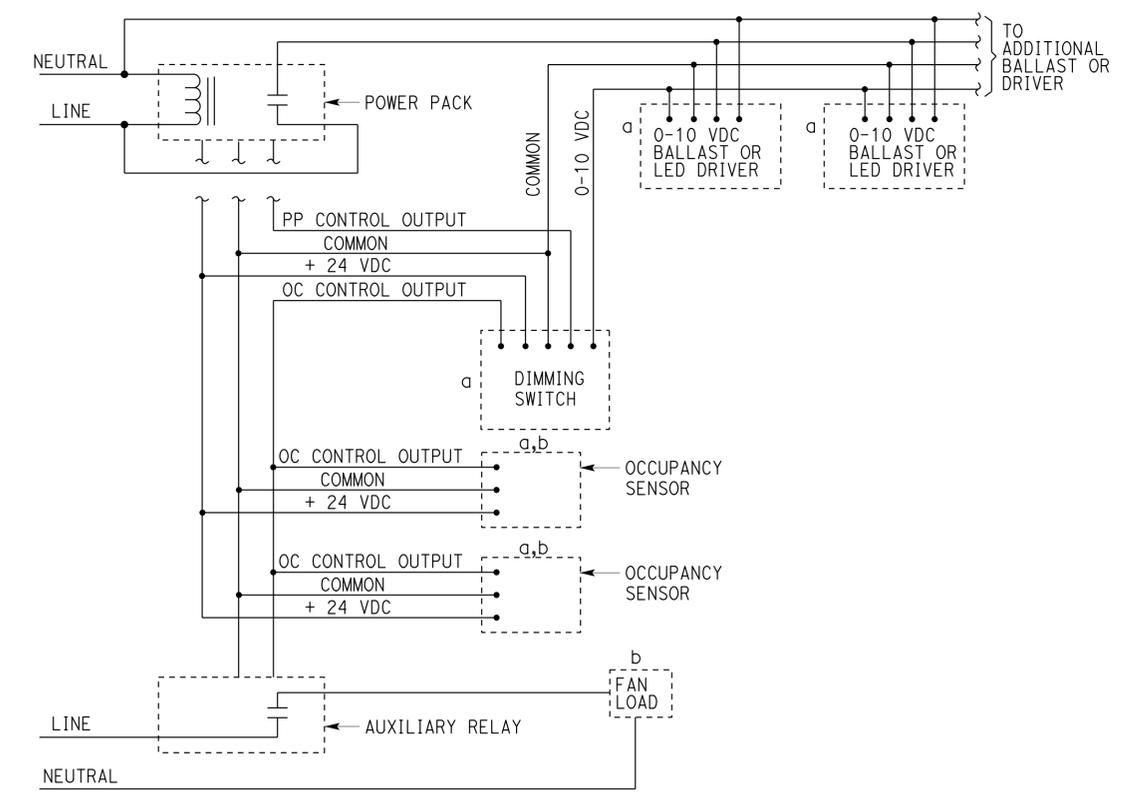
2 WALL SWITCH OCCUPANCY SENSOR TYPE 2 WIRING DIAGRAM



3 COMBINATION HEAT/LIGHT/FAN SWITCH



4 CEILING MOUNTED OCCUPANCY SENSOR AND DIMMING SWITCH WITH LED LIGHTING



5 CEILING MOUNTED OCCUPANCY SENSOR AND DIMMING SWITCH WITH LED LIGHTING AND FAN CIRCUIT

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Tommy F. Lee	CHECKED Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE DETAILS	SHEET	
DETAILS	BY Dali Zhou	CHECKED Tommy F. Lee			02W0002		POST MILE	EE4-4
QUANTITIES	BY Tommy F. Lee	CHECKED Beatrice Bindu			R7.2			

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 UNIT: 3597 CONTRACT No.: 02-2E8004 PROJECT NUMBER & PHASE: 0200006031
 DISREGARD PRINTS BEARING EARLIER REVISION DATES: 9-18-13, 4-18-14, 5-16-14, 1-26-15
 REVISION DATES (PRELIMINARY STAGE ONLY)

25-AUG-2015 06:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	05	R7.2	256	262

Jerome R. Marcotte 01-26-15
REGISTERED CIVIL ENGINEER DATE

08-24-2015
PLANS APPROVAL DATE

Jerry Marcotte
No. C36844
Exp. 06-30-16
CIVIL
STATE OF CALIFORNIA

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ABBREVIATIONS

A	AIR	IN	INCH
AB	AGGREGATE BASE	JB	JUNCTION BOX
AC	ASPHALT CONCRETE	KW	KILOWATT
B	BUNG	L	LENGTH
BLDG	BUILDING	LB	POUND
C	CONDUIT	LS	LANDSCAPE IRRIGATION
C-C	CENTER TO CENTER	LT	LEFT
CFS	CUBIC FEET PER SECOND	MAX	MAXIMUM
CI	CAST IRON	MBV	MOTORIZED BALL VALVE
CL	CHAIN LINK	MH	MANHOLE
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM
CONC	CONCRETE	(N)	NEW
COTF	CLEANOUT TO FLOOR	N	NORTH
COTG	CLEANOUT TO GRADE	NB	NORTHBOUND
CPLG	COUPLING	NIC	NOT IN CONTRACT
CW	COLD WATER PIPE	NO	NUMBER
D	DRAIN	OC	ON CENTER
DBH	DIAMETER AT BREST HEIGHT	OD	OUTSIDE DIAMETER
DI	DRAIN INLET	OG	ORIGINAL GROUND
DIA	DIAMETER	P	PITCH
DP	DRAIN PIPE	PCC	PORTLAND CEMENT CONCRETE
E	ELECTRICAL	PH	PHASE
(E)	EXISTING	PRV	PRESSURE REDUCING VALVE
EA	EACH	PVC	POLYVINYL CHLORIDE
EL	ELEVATION	R	RADIUS
EP	EDGE OF PAVEMENT	RCP	REINFORCED CONCRETE PIPE
EPDM	ETHYLENE PROPYLENE DIMONOMER PIPE	REQ	REQUIRED
EQ	EQUAL	rpm	REVOLUTIONS PER MINUTE
FOB	FACE OF BUILDING	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
FF	FINISH FLOOR	RPU	RECYCLE PROCESS UNIT
FG	FINISH GRADE	RT	RIGHT
FL	FLOW LINE	R/W	RIGHT-OF-WAY
FM	FORCE MAIN	S	SEWER
FOC	FACE OF CONCRETE	SB	SOUTHBOUND
FS	FLOW SWITCH	SCH	SCHEDULE
FT	FEET	SD	STORM DRAIN
FTR	FLUE THROUGH ROOF	SP	SEWER PIPE
GA	GAUGE	SQ	SQUARE
GAC	GRANULAR ACTIVATED CARBON	SS	STAINLESS STEEL
GAL	GALLON	STA	STATION
GPM	GALLONS PER MINUTE	STD	STANDARD BENCH MARK
GALV	GALVANIZED	TBM	TEMPORARY BENCH MARK
GSP	GALVANIZED STEEL PIPE	TOC	TOP OF CONCRETE
GV	GATE VALVE	TOT	TOTAL
GS	GOVERNMENT SERVICE LINE	Typ	TYPICAL
H	HEIGHT	VAC	VOLTS AC
HF	HOSE FAUCET	VCP	VITRIFIED CLAY PIPE
HMA	HOT MIX ASPHALT	W	WATER
HP	HORSEPOWER	W/O	WITHOUT
ID	INSIDE DIAMETER	WP	WATER PIPE
IE	INVERT ELEVATION (IN FEET)	WSP	WELDED STEEL PIPE

LEGEND

	FENCE		DETAIL
	SURFACE DRAINAGE		SHEET NUMBER
	ABANDON	99.00	NEW GRADE IN FEET
	SANITARY SEWER	X (100.00)	EXISTING SPOT GRADE IN FEET
	DRAIN		SURFACE DRAINAGE
	RETURN DRAIN		ABANDON (E)
	VENT		BENCHMARK ELEVATION
	WATER		CENTERLINE
	FORCE MAIN		DIAMETER
	LEACH LINES		SECTION / ELEVATION LETTER
	ELECTRICAL LINES		SHEET NUMBER
			TREE
			DIRECTION OF TRAFFIC

GENERAL WORK NOTES

1. The Contractor shall verify all controlling field dimensions and conditions before ordering or fabricating any materials.
2. No 90 degree bends allowed on drain or sewer pipe. Where 90 degree bends are shown, use two 45 degree bends

PIPE FITTINGS AND VALVES

	CAP, THREADED
	ELBOW, TURNED DOWN
	FLEXIBLE CONNECTOR
	REDUCER, CONCENTRIC
	REDUCER, ECCENTRIC
	PRESSURE GAUGE (WITH VALVE AND SNUBBER)
	UNION
	UNION, INSULATING
	VALVE, BALL
	VALVE, CHECK
	VALVE, GATE
	VALVE, SAFETY RELIEF
	VALVE, PRESSURE REDUCING
	WATER METER
	HOSE FAUCET

CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *Francis Solich*
FRANCIS SOLICH
Approval date: 01-21-15

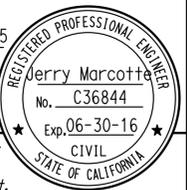
DESIGN	BY Severiano Gutierrez	CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE	SHEET SS-0
	DETAILS	BY Severiano Gutierrez			CHECKED Jerry Marcotte		
QUANTITIES	BY Severiano Gutierrez	CHECKED Jerry Marcotte	7.2	NOTES, LEGEND, AND ABBREVIATIONS			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT: 3616 CONTRACT No.: 2E8004 PROJECT NUMBER & PHASE: 02000006031	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

TAEWW Imperial - CCSC Rev. 02/13

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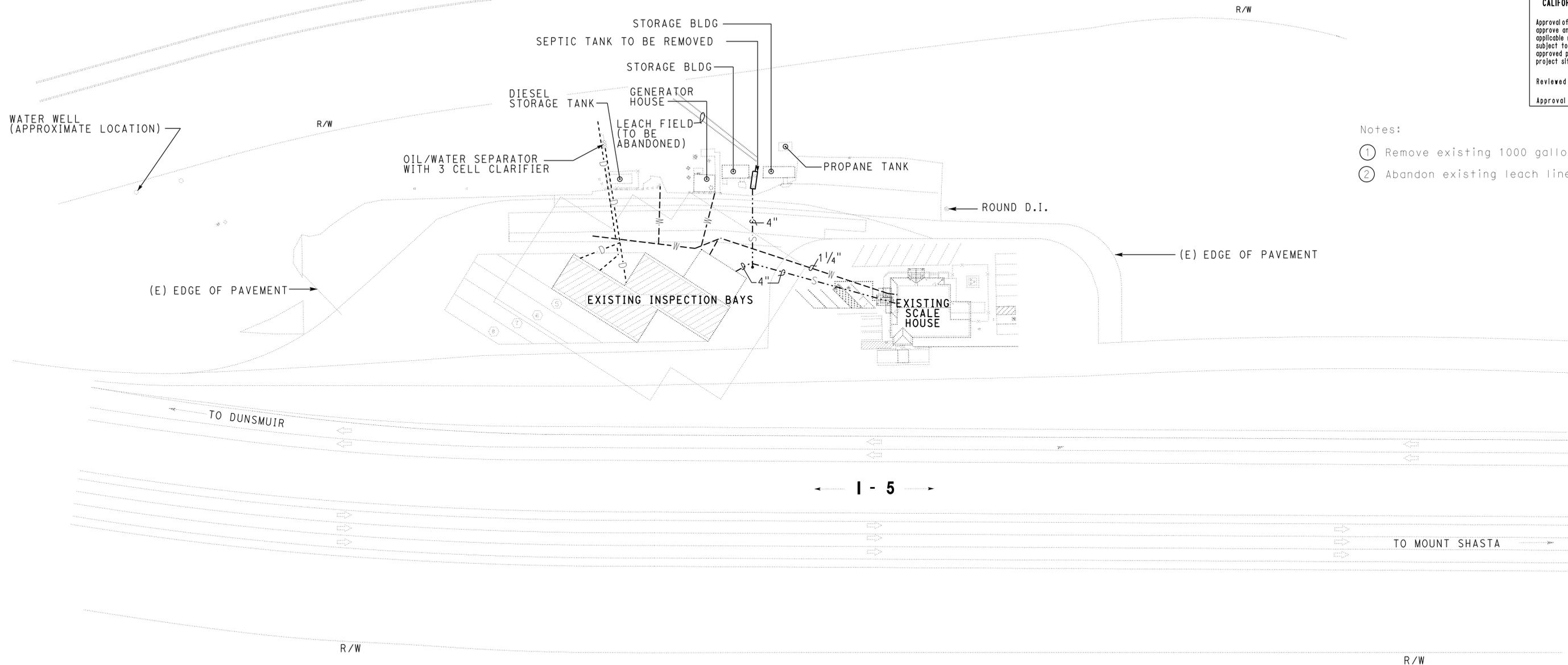
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	05	R7.2	257	262

Jerome R. Yant
 REGISTERED CIVIL ENGINEER
 DATE 01-26-15
 PLANS APPROVAL DATE 08-24-2015



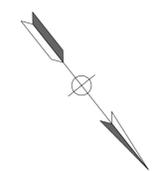
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 Reviewed by: *Francis Solich*
 FRANCIS SOLICH
 Approval date: 01-21-15



- Notes:
- ① Remove existing 1000 gallon septic tank.
 - ② Abandon existing leach lines.

SITE PLAN
 1" = 50'



 DESIGN SUPERVISOR DESIGN ENGINEER	DESIGN BY Severiano Gutierrez	CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 02W0002	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE EXISTING SITE PLAN	SHEET SS-1
	DETAILS BY Severiano Gutierrez	CHECKED Jerry Marcotte			POST MILE R7.2		
QUANTITIES BY Severiano Gutierrez	CHECKED Jerry Marcotte	UNIT: 3616 CONTRACT No.: 2E8004 PROJECT NUMBER & PHASE: 02000006031			DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	05	R7.2	258	262

Registered Professional Engineer
 Jerry Marcotte
 No. C36844
 Exp. 06-30-16
 CIVIL
 STATE OF CALIFORNIA

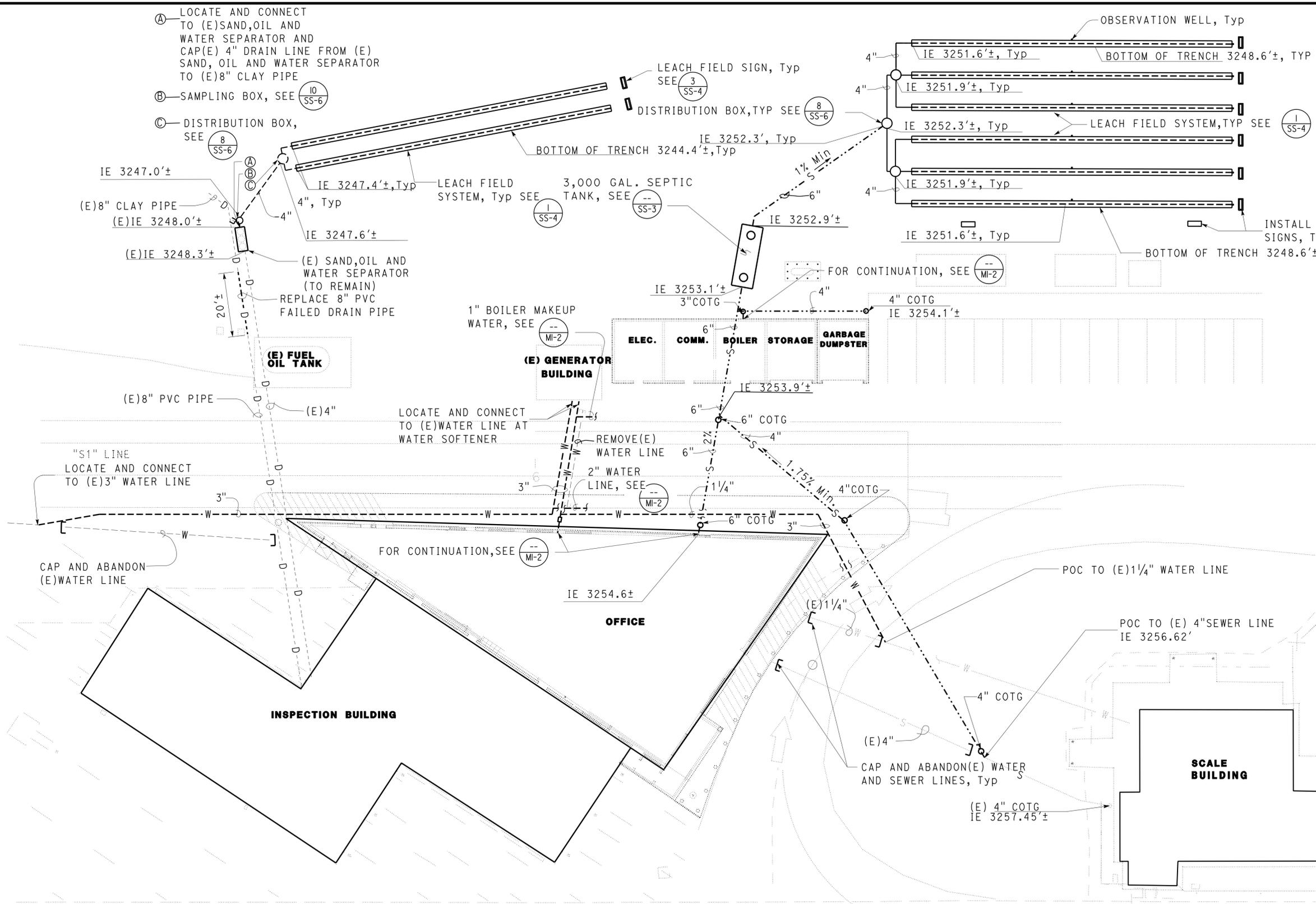
01-26-15
 DATE

08-24-2015
 PLANS APPROVAL DATE

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Reviewed by: FRANCIS SOLICH
 Approval date: 01-21-15



SITE PLAN
 SCALE: 1/16" = 1'-0"

DESIGN	BY Severiano Gutierrez	CHECKED Jerry Marcotte
DETAILS	BY Severiano Gutierrez	CHECKED Jerry Marcotte
QUANTITIES	BY Severiano Gutierrez	CHECKED Jerry Marcotte

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 02W0002
 POST MILE R7.2

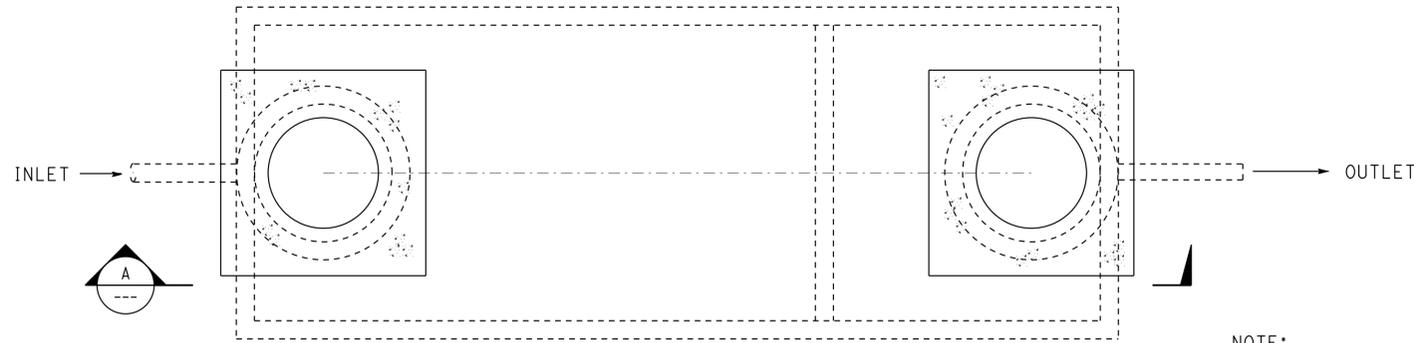
DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE
 SITE PLAN

SHEET SS-2 OF

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	05	R7.2	259	262

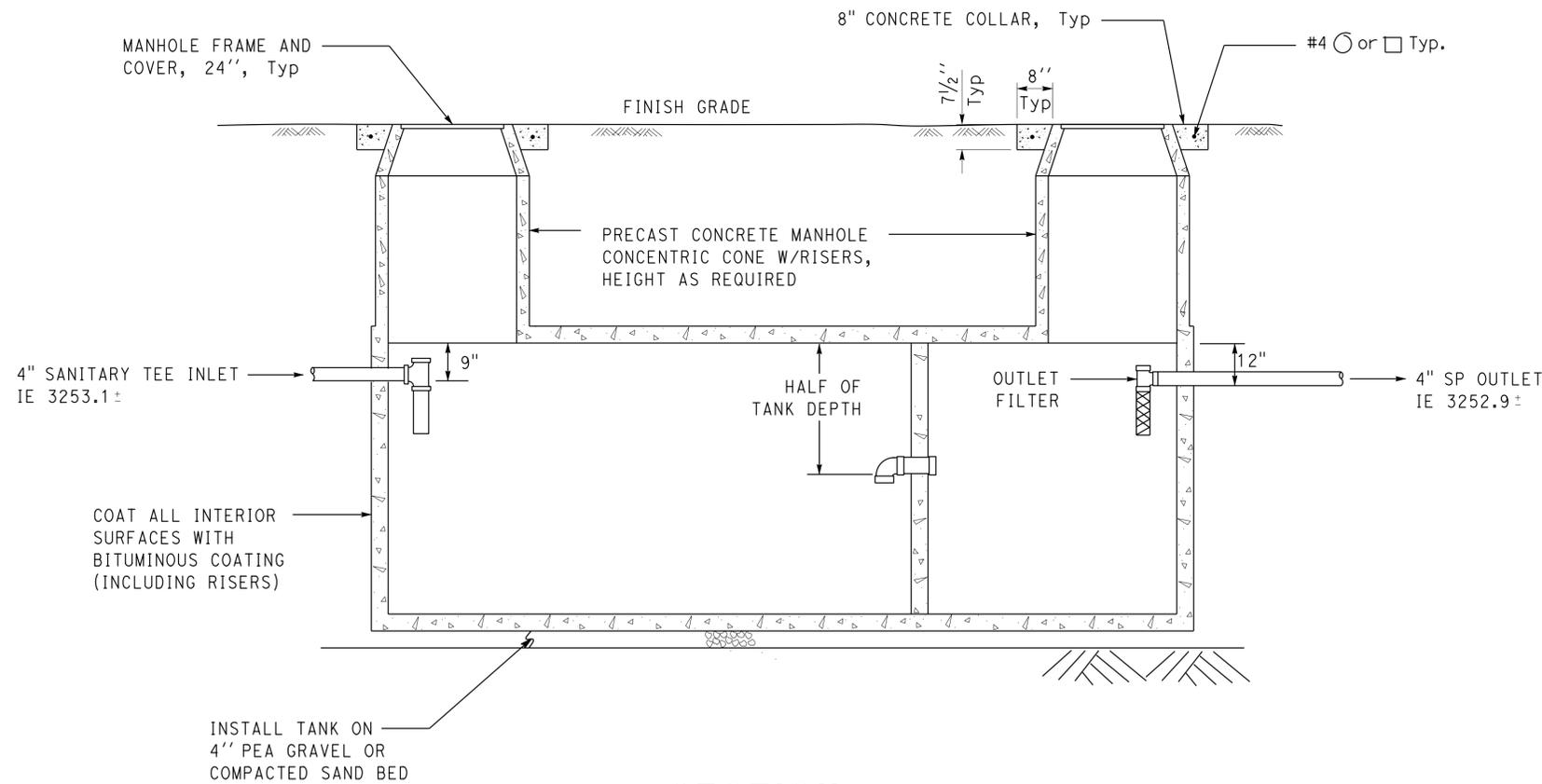
Jerry Marcotte
 REGISTERED CIVIL ENGINEER
 DATE 01-26-15
 PLANS APPROVAL DATE 08-24-2015
 No. C36844
 Exp. 06-30-16
 CIVIL
 STATE OF CALIFORNIA

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PLAN

- NOTE:**
- ① Epoxy mortar all joint connections and penetrations, inside and outside of tank.
 - ② Coat all interior surfaces including risers.



A SECTION

SEPTIC TANK - 3000 GALLON

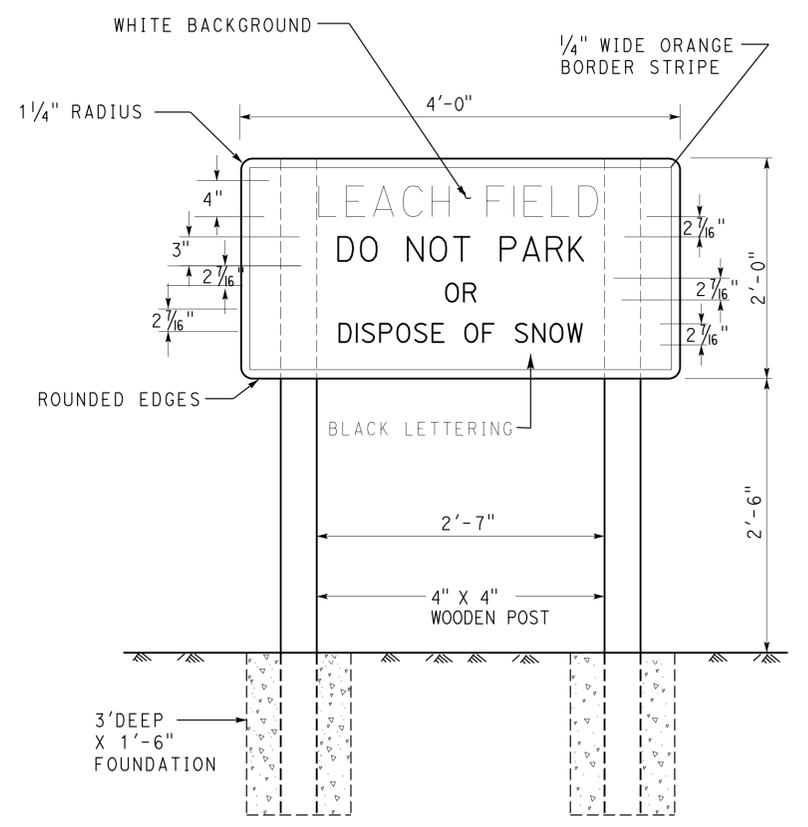
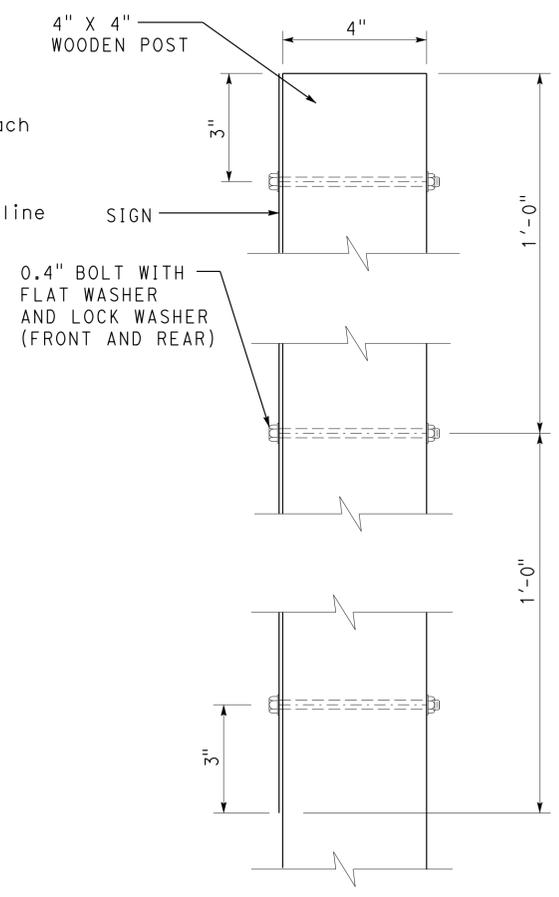
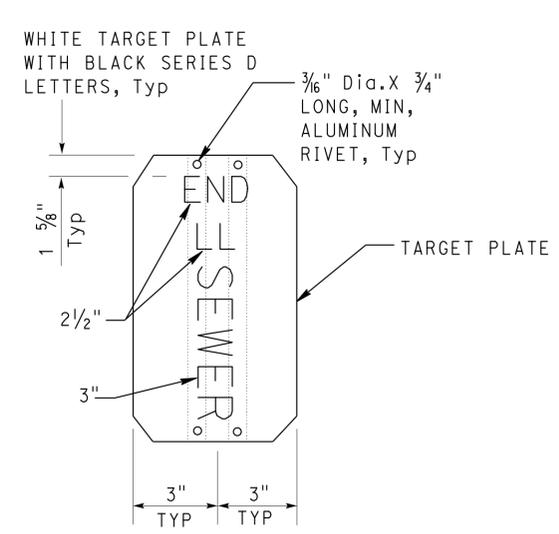
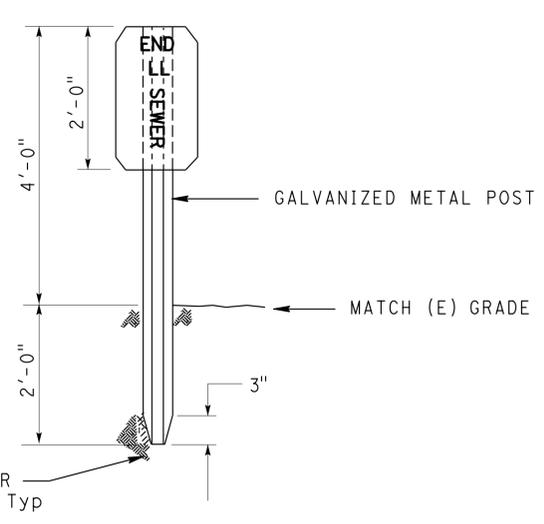
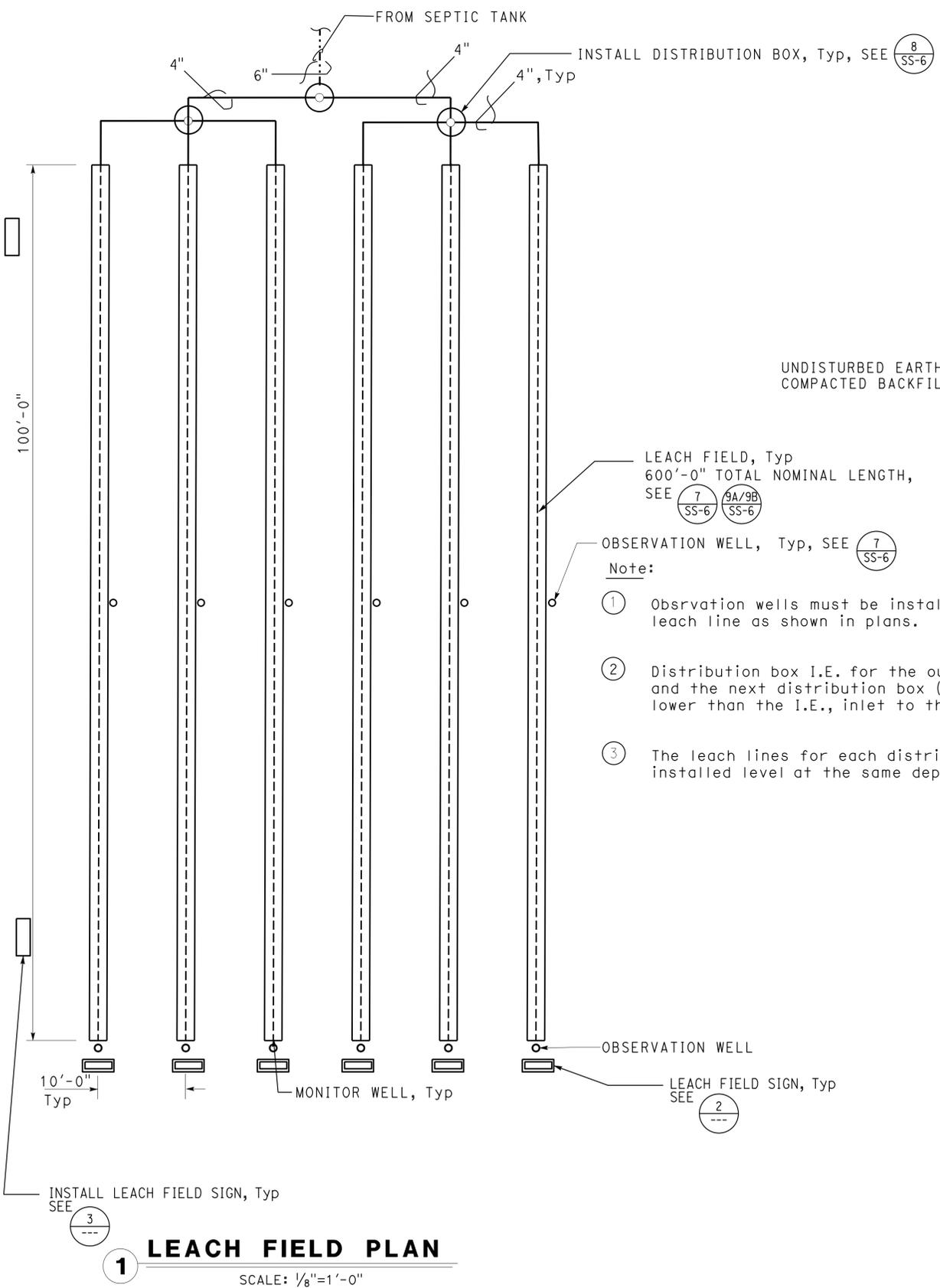
NO SCALE

DESIGN BY Severiano Gutierrez CHECKED Jerry Marcotte DETAILS BY Severiano Gutierrez CHECKED Jerry Marcotte QUANTITIES BY Severiano Gutierrez CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 02W0002 POST MILE R7.2	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE SEPTIC TANK (3000 GALLONS)	SHEET SS-3 OF
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3616 CONTRACT No.: 2E8004 PROJECT NUMBER & PHASE: 02000006031	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 03-07-14 05-13-14 08-20-14 09-18-14 01-16-15 01-26-15	SHEET OF

25-AUG-2015 06:45



CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: FRANCIS SOLICH
 Approval date: 01-21-15



Note: Trench separation may be reduced to 6 feet minimum for Sand/Oil and Water Separator

DESIGN	BY Severiano Gutierrez	CHECKED Jerry Marcotte
DETAILS	BY Severiano Gutierrez	CHECKED Jerry Marcotte
QUANTITIES	BY Severiano Gutierrez	CHECKED Jerry Marcotte

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 02W0002
 POST MILE R7.2

DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE
 LEACH FIELD SYSTEM

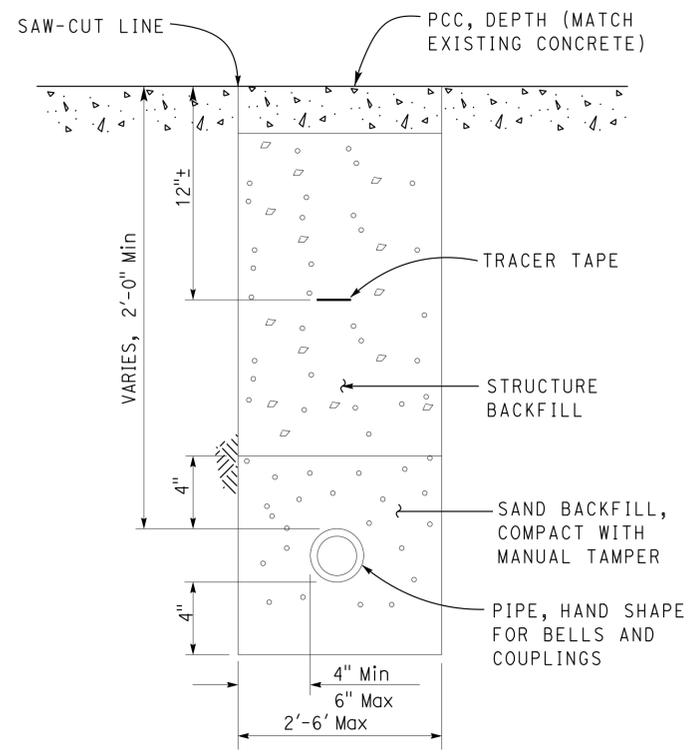
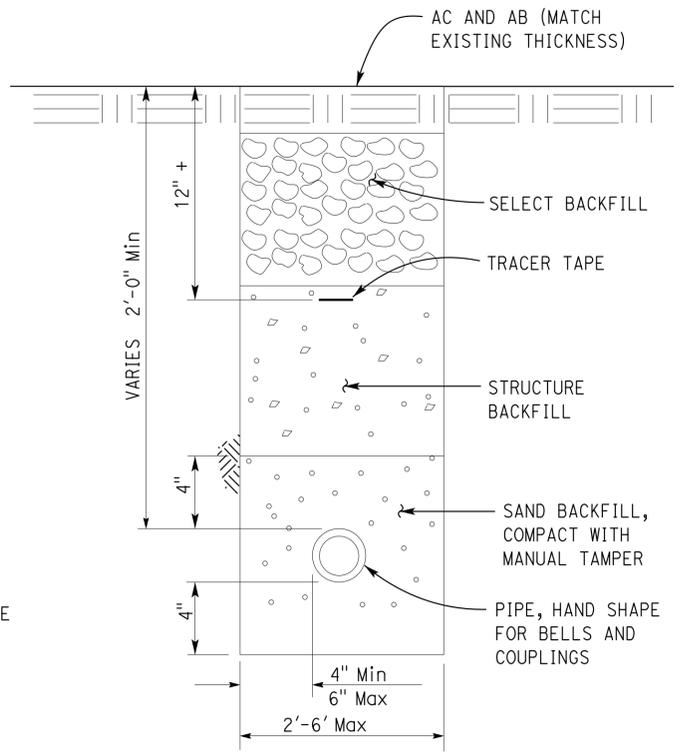
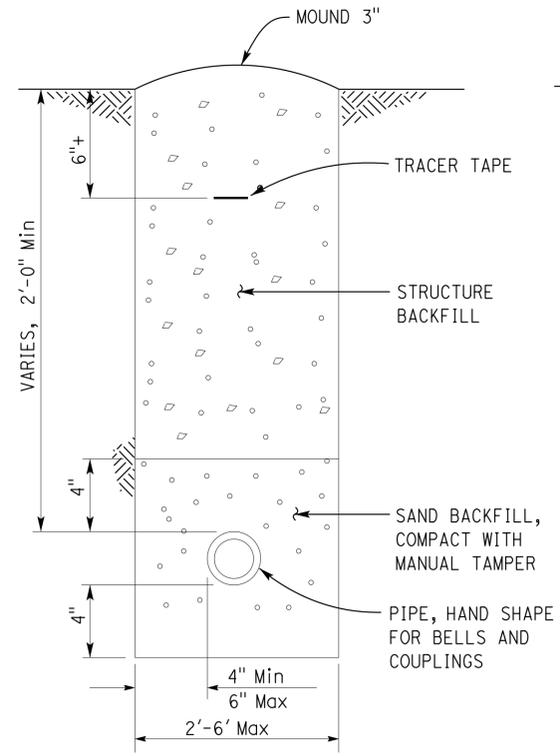
SHEET SS-4 OF

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	05	R7.2	261	262

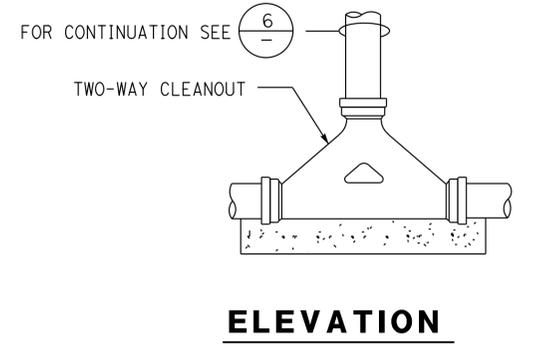
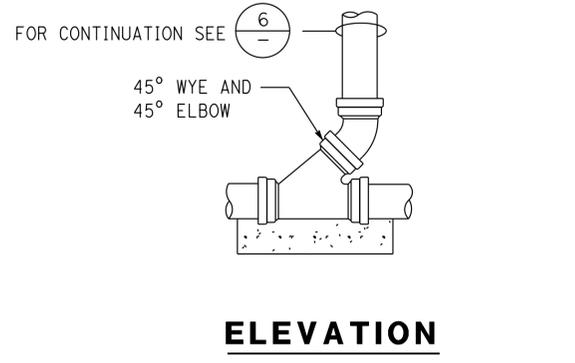
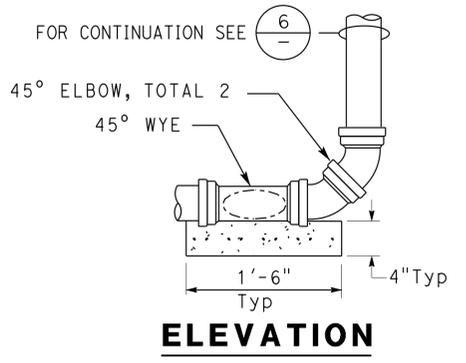
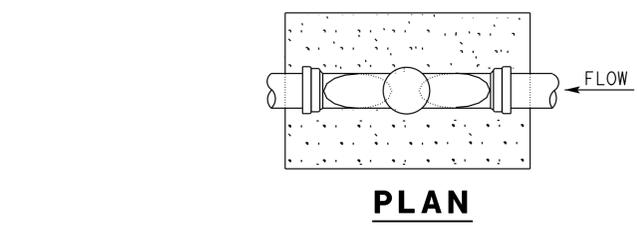
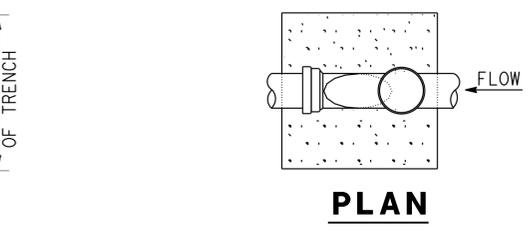
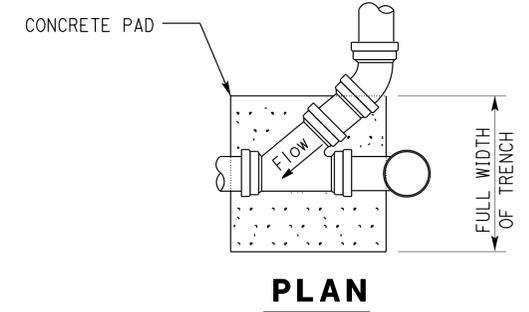
01-26-15 DATE
 08-24-2015 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



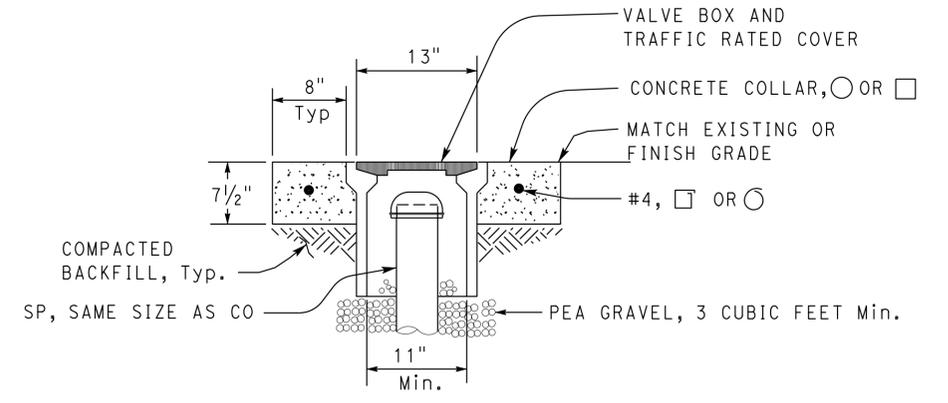
CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: FRANCIS SOLICH
 Approval date: 01-21-15



4 UNDERGROUND SEWER PIPE
NO SCALE



5 CLEANOUT TO GRADE - GRAVITY
NO SCALE



6 COTG ACCESS BOX
NO SCALE

NOTE: CONCRETE PAD SHOWN TYPICAL FOR ALL CLEANOUTS

DESIGN BY Severiano Gutierrez	CHECKED BY Jerry Marcotte	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE No.	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE	SHEET SS-5
				02W0002		
DETAILS BY Severiano Gutierrez	CHECKED BY Jerry Marcotte	DEPARTMENT OF TRANSPORTATION	ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE R7.2	DETAILS-1	OF
QUANTITIES BY Severiano Gutierrez	CHECKED BY Jerry Marcotte	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3616 CONTRACT No.: 2E8004 PROJECT NUMBER & PHASE: 02000006031	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	

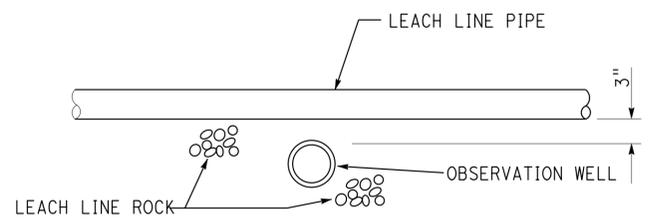
25-AUG-2015 06:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sis	05	R7.2	262	262

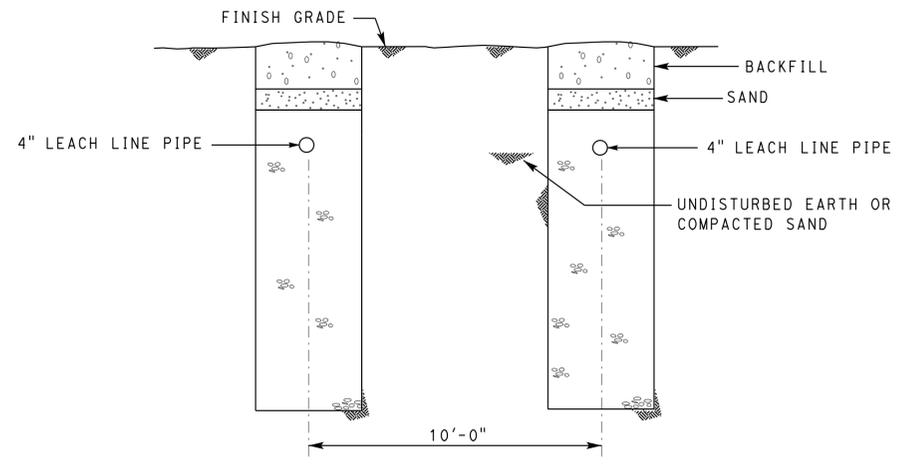
Jerry Marcotte
 REGISTERED CIVIL ENGINEER
 DATE 01-26-15
 08-24-2015
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



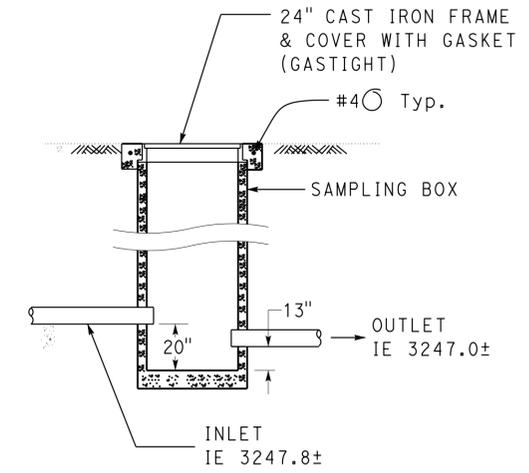
CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *Francis Solich*
 FRANCIS SOLICH
 Approval date: 01-21-15



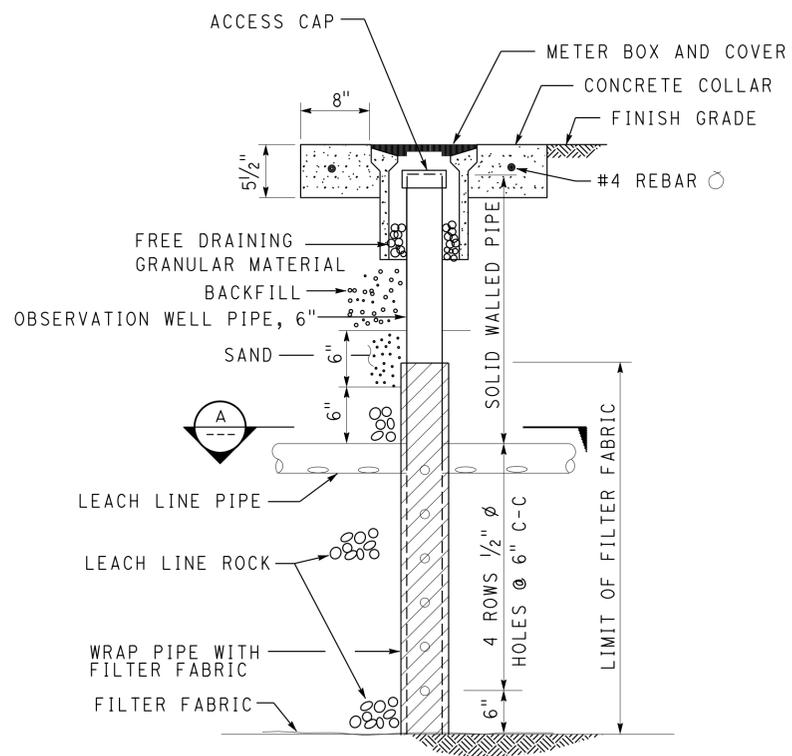
A SECTION - OBSERVATION WELL
NO SCALE



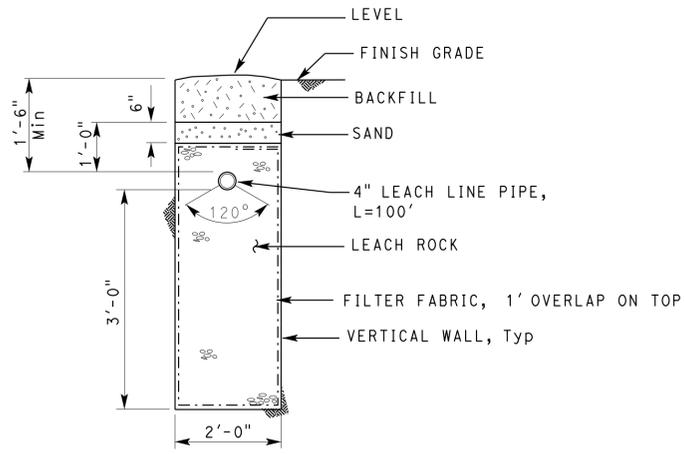
9A LEACH LINE
NO SCALE



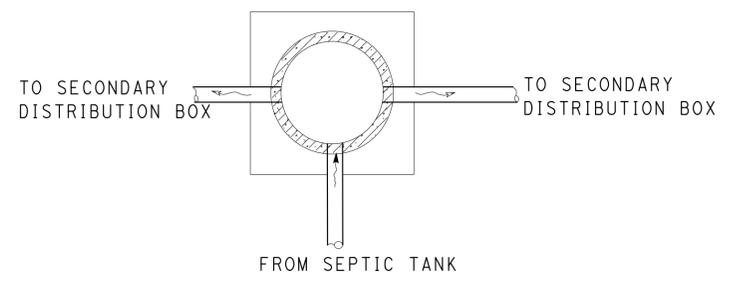
10 SAMPLING BOX
NO SCALE



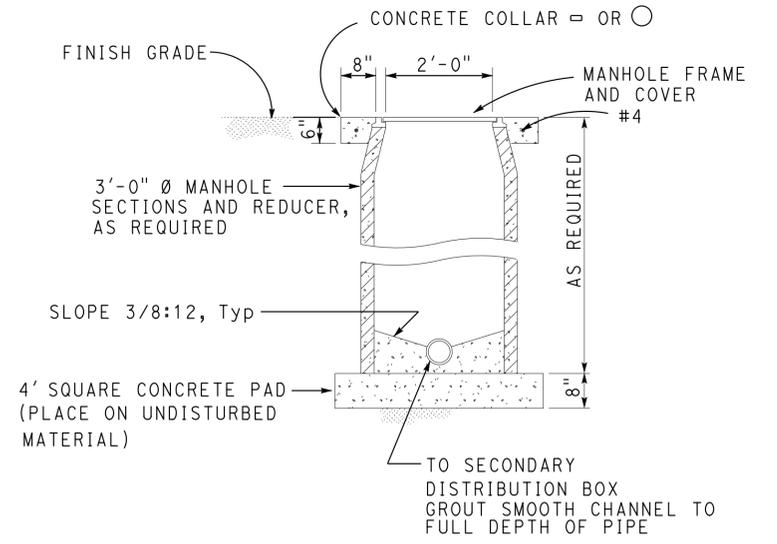
7 OBSERVATION WELL
NO SCALE



9B LEACH LINE
NO SCALE



PLAN



8 DISTRIBUTION BOX
NO SCALE

NOTE: Similar to oil water separator distribution box.

TAEWW Imperial - CCSC Rev. 02/13 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	DESIGN	BY Severiano Gutierrez	CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	02W0002	DUNSMUIR GRADE TRUCK INSPECTION FACILITY UPGRADE DETAILS-2	SHEET SS-6 OF
	DETAILS	BY Severiano Gutierrez	CHECKED Jerry Marcotte			POST MILE	R7.2		
	QUANTITIES	BY Severiano Gutierrez	CHECKED Jerry Marcotte			UNIT: 3616 CONTRACT No.: 2E8004 PROJECT NUMBER & PHASE: 02000006031	DISREGARD PRINTS BEARING EARLIER REVISION DATES		

25-AUG-2015 06:45