

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: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

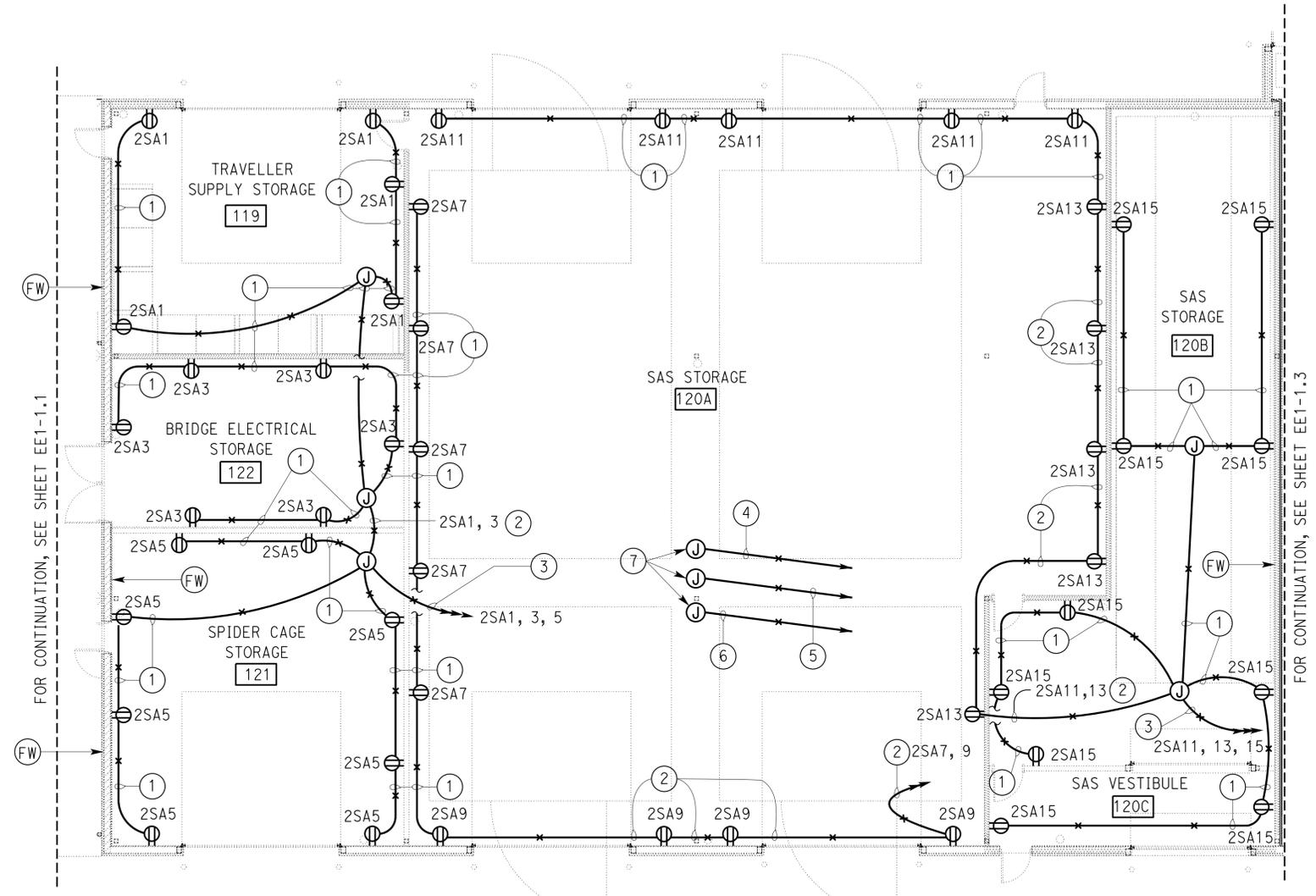
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		301	371

Javid Amirazodi
 REGISTERED ELECTRICAL ENGINEER DATE 02-21-14

3-24-14
 PLANS APPROVAL DATE

Javid Amirazodi
 REGISTERED PROFESSIONAL ENGINEER
 No. E 17509
 Exp. 6-30-15
 ELEC
 STATE OF CALIFORNIA

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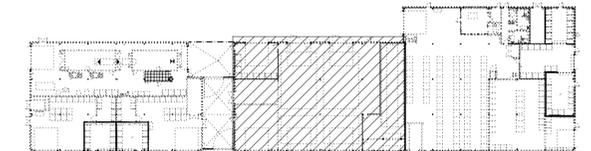
GENERAL NOTES:

- A. Electrical conduits in rooms 125, 126, 127, 129, 130, 131 and 132 must be concealed in ceiling or walls. Electrical conduits in other rooms may be exposed.
- B. Install adequate number of junction boxes as required, without additional cost to the State. Junction boxes must be sized as required to accommodate number of cables/conductors.

Notes:

- ① 1/2" C, 2#10, 1#10G.
- ② 3/4" C, 4#10, 1#10G.
- ③ 1" C, 6#10, 1#10G.
- ④ 2" C, PT, to Panel 8SA.
- ⑤ 2" C, PT, to Panel 2SB.
- ⑥ 2" C, PT, to Panel 4SA.
- ⑦ 8" (W) X 8" (H) X 6" (D) junction box.

PLAN
 1/8" = 1'-0"



KEY PLAN

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 3/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 33M5785
 POST MILE

SFOBB WAREHOUSE		SHEET EE1-1.2
BUILDING 1B	POWER PLAN 2	

GENERAL NOTES:

- A. Electrical conduits in rooms 125, 126, 127, 129, 130, 131 and 132 must be concealed in ceiling or walls. Electrical conduits in other rooms may be exposed.
- B. Install adequate number of junction boxes as required, without additional cost to the State. Junction boxes must be sized as required to accommodate number of cables/conductors.
- C. The areas within 3 feet of spray booth, blast booth, mix booth, and hazardous material storage (rooms 111, 118, 134A and 135) openings and above spray booth, blast booth, mix booth are Class 1 or Class 2, division 2 area. All equipment and wiring methods in this area must comply with Class 1 or Class 2, Division 2 requirements of the 2010 California Electrical Code (CEC). Submit complete installation details including but not limited to conduit route to all equipment, conduit seal locations and equipment mounting height details, etc. for approval to the Engineer, prior to installation. All conduits must be rigid steel conduit.

NOTES:

- ① Class 1, Division 1 rated area. All equipment and wiring methods in this area must comply with Class 1, Division 1 requirements of the 2010 California Electrical Code (CEC). Submit complete installation details including but not limited to conduit routes to all equipment, conduit seal locations and equipment mounting height details, etc. for approval to the Engineer, prior to installation. All conduits must be rigid steel conduit.

- ② 3/4"C, 4#10, 1#10G.
- ③ 1"C, 6#10, 1#10G.
- ④ 1/2"C, 2#12, 1#12 insulated ground, 1#12G.
- ⑤ 3/4"C, 4#12, 1#12 insulated ground, 1#12G.
- ⑥ 1"C, 6#10, 1#10 insulated ground, 1#10G.
- ⑦ Emergency warning plate, install at 3'-8" above finished floor adjacent to emergency shutoff disconnect switch. Inscription must read: "DURING EMERGENCY, TO TURN OFF ELECTRICAL POWER TO HAZARDOUS MATERIAL ROOMS 134A AND 135, PRESS THIS EMERGENCY SHUTOFF DISCONNECT SWITCH".
- ⑧ For Emergency Shutoff Wiring Diagram, see Details on this sheet.
- ⑨ 2"C, PT, to Panel 8SA.
- ⑩ 2"C, PT, to Panel 2SB.
- ⑪ 2"C, PT, to Panel 4SA.
- ⑫ 8" (W) X 8" (H) X 6" (D) junction box.

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 Reviewed by: *Javid Amirazodi*
 INGRID P. ICASIANO
 Approval date: 02-11-14

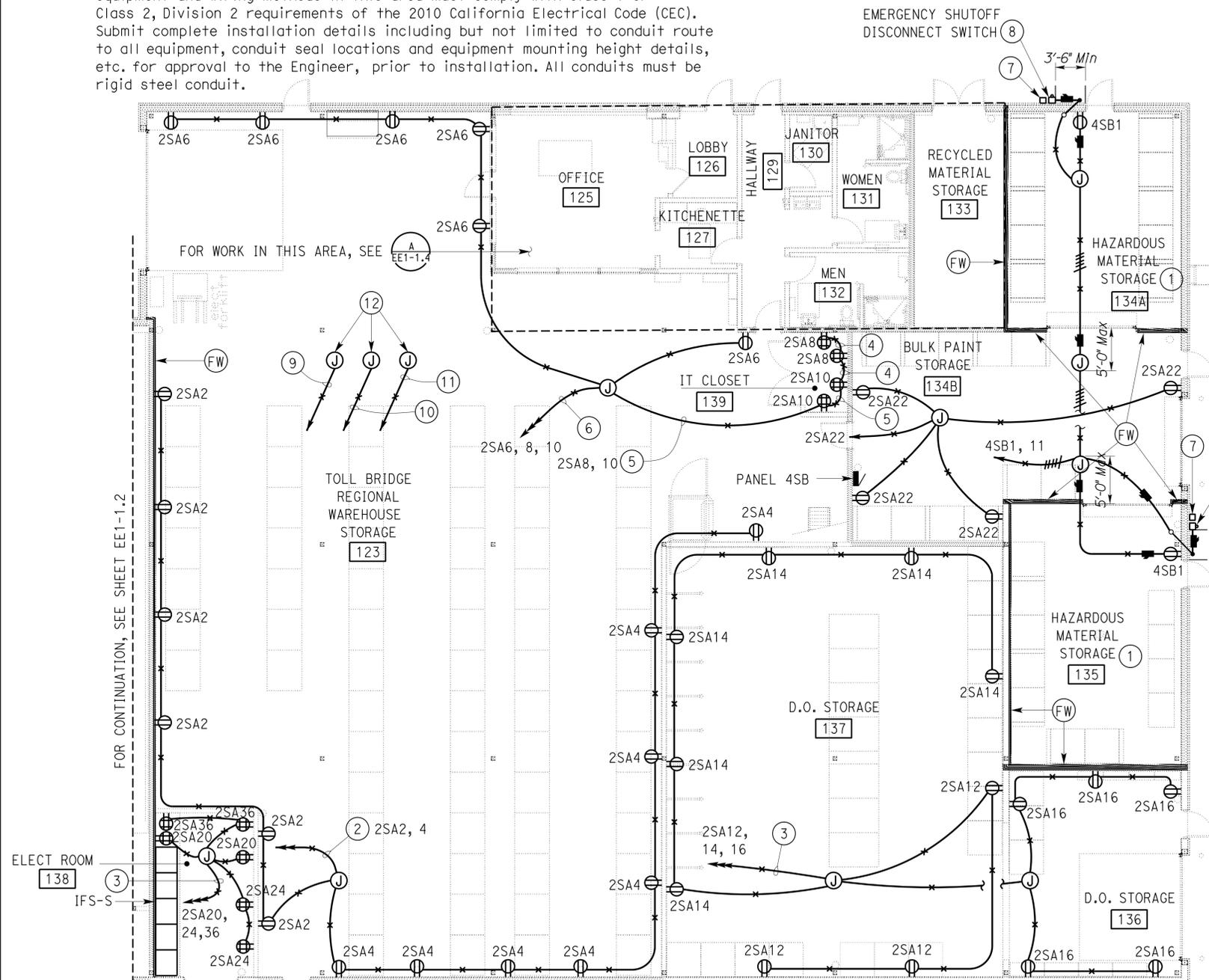
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		302	371

Javid Amirazodi
 REGISTERED ELECTRICAL ENGINEER DATE 02-21-14

3-24-14
 PLANS APPROVAL DATE

Javid Amirazodi
 No. E 17509
 Exp. 6-30-15
 ELEC
 STATE OF CALIFORNIA

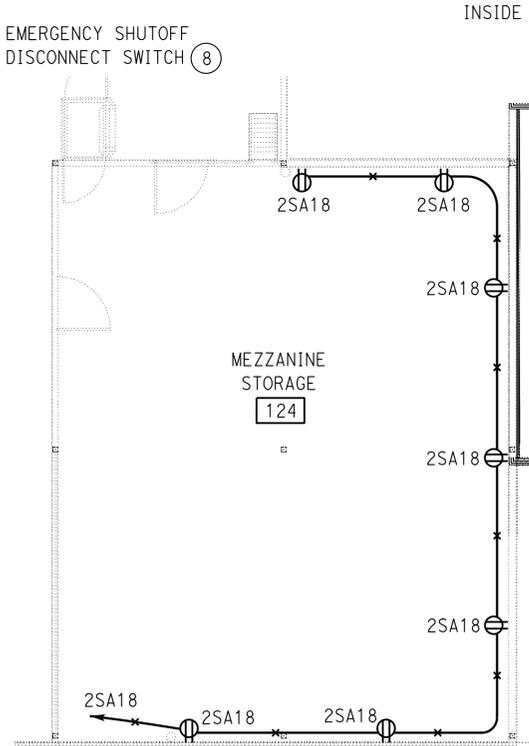
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PLAN

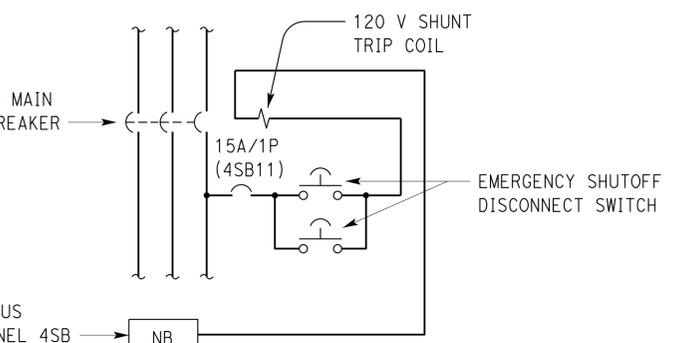
1/8" = 1'-0"

APPROVED FOR ELECTRICAL WORK ONLY

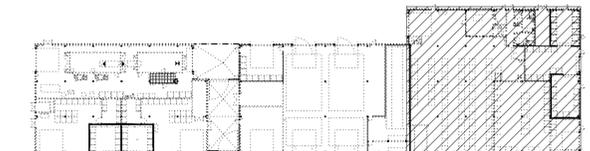


MEZZANINE

1/8" = 1'-0"



EMERGENCY SHUTOFF WIRING DIAGRAM



KEY PLAN

DESIGN BY Javid Amirazodi	CHECKED Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE		SHEET EE1-1.3
				POST MILE	BUILDING 1B	POWER PLAN 3	
DETAILS BY Ed D. Tapalla 3/13	CHECKED Javid Amirazodi	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
QUANTITIES BY Javid Amirazodi	CHECKED Jaswinder Gill	0 1 2 3		DISREGARD PRINTS BEARING EARLIER REVISION DATES	3-25-13 10-28-13 02-21-14		

TAEWW Imperial - CCSC Rev. 01/13

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GENERAL NOTES:

- A. Location of overhead door/overhead coiling door operator units and related components as shown is arbitrary only. Exact location depends upon the unit furnished. Provide and install any additional conduit, conductors, cables and equipment necessary for the automatic operation without extra cost to the State. All cables and conductors must be installed in conduit.
- B. Install adequate number of junction boxes as required, without additional cost to the State. Junction boxes must be sized as required to accommodate number of cables/conductors.
- C. Electrical conduits in rooms 125, 126, 127, 129, 130, 131 and 132 must be concealed in ceiling or walls. Electrical conduits in other rooms may be exposed.
- D. For exact location of Air Compressor, Air Receivers, Breathing Air Purifier, Filters, Air Dryer, and Hot Water Heater 1 see Mechanical plan sheets.
- E. Location of conduit and conductor system for Air Compressor, 600 Gal Receivers, Air Dryer, filters and their related equipment as shown are diagrammatic only. Provide and install proper conduit and conductor system per unit's manufacturer recommendation with no additional cost to the State. Submit details for approval prior to installation.
- F. The areas within 3 feet of spray booth, blast booth, mix booth, and hazardous material storage (rooms 111, 118, 134A and 135) openings and above spray booth, blast booth, mix booth are Class 1 or Class 2, division 2 area. All equipment and wiring methods in this area must comply with Class 1 or Class 2, Division 2 requirements of the 2010 California Electrical Code (CEC). Submit complete installation details including but not limited to conduit route to all equipment, conduit seal locations and equipment mounting height details, etc. for approval to the Engineer, prior to installation. All conduits must be rigid steel conduit.
- G. All conduit systems above blast booth, spray booth and mix booth must be rigid steel conduit type.

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 Reviewed by: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		304	371

Javid Amirazodi 02-21-14
 REGISTERED ELECTRICAL ENGINEER DATE

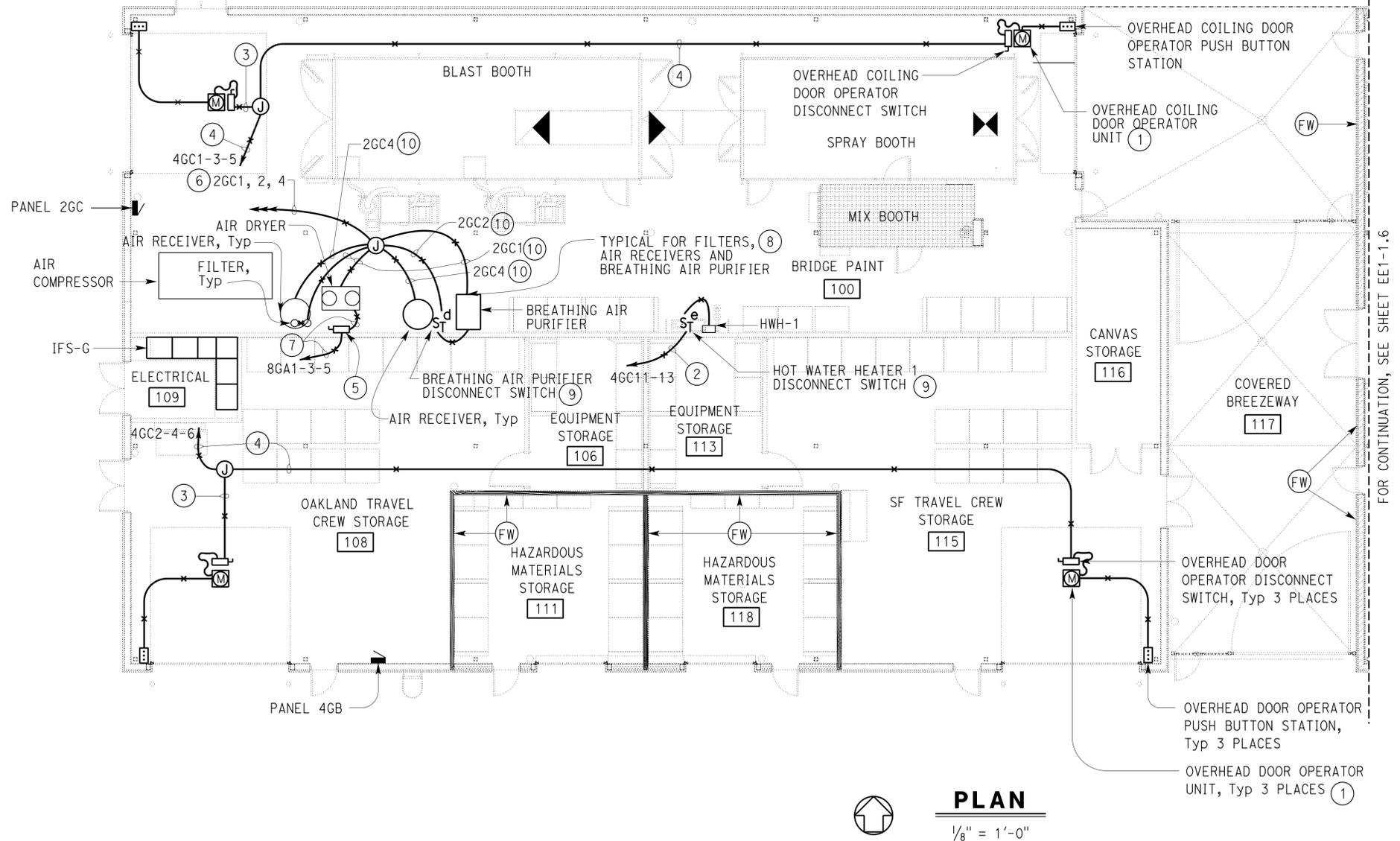
3-24-14
 PLANS APPROVAL DATE

Javid Amirazodi
 No. E 17509
 Exp. 6-30-15
 ELEC
 STATE OF CALIFORNIA

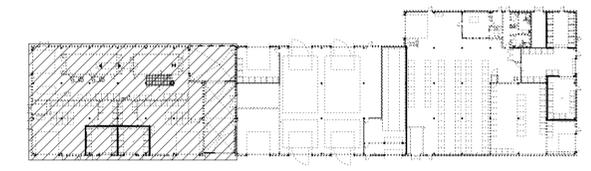
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

NOTES:

- ① Overhead door/overhead coiling door operator unit. Install the following for the overhead door/overhead coiling door operator system:
 - 1/2"C, 3#12, 1#12G in between the overhead door/overhead coiling door operator disconnect switch and the overhead door/overhead coiling door operator unit.
 - 1/2"C, Control conductors as required in between the overhead door/overhead coiling operator door unit and overhead door/overhead coiling door operator push button station.
 - Junction box and flexible cable between the overhead door/overhead coiling door operator unit and safety edge limit switch.
 - 1/2"C, Control cables as required between the overhead door/overhead coiling door operator unit and door chain operated safety limit switch.
- Safety edge limit switch and door chain operated safety limit switch are not shown. Mount overhead door/overhead coiling door operator disconnect switch adjacent to the overhead door/overhead coiling door operator unit.
- ② 3/4"C, 2#8, 1#8G.
- ③ 1/2"C, 3#12, 1#12G.
- ④ 3/4"C, 3#10, 1#10G.
- ⑤ Air dryer disconnect switch.
- ⑥ 1 1/2"C, 6#10, 1#10G, and 2#10 spare.
- ⑦ 3/4"C, 3#10, 1#10G and 2#10 spare.
- ⑧ Connect to automatic drain as required.
- ⑨ Install disconnect switch adjacent to the unit.
- ⑩ 1"C, 2#10, 1#10G.



PLAN
 1/8" = 1'-0"



KEY PLAN

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 3/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 33M5785
 POST MILE

SFOBB WAREHOUSE		SHEET EE1-1.5
BUILDING 1A	POWER PLAN 5	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3597 CONTRACT No.: 014101
 PROJECT NUMBER & PHASE: 04130001331

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
	3-25-13, 10-28-13, 12-23-13, 2-21-14	

GENERAL NOTES:

- A. Location of overhead door/overhead coiling door operator units and related components as shown is arbitrary only. Exact location depends upon the unit furnished. Provide and install any additional conduit, conductors, cables and equipment necessary for the automatic operation without extra cost to the State. All cables and conductors must be installed in conduit.
- B. Install adequate number of junction boxes as required, without additional cost to the State. Junction boxes must be sized as required to accommodate number of cables/conductors.
- C. Electrical conduits in rooms 125, 126, 127, 129, 130, 131 and 132 must be concealed in ceiling or walls. Electrical conduits in other rooms may be exposed.

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 Reviewed by: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		305	371

Javid Amirazodi 02-21-14
 REGISTERED ELECTRICAL ENGINEER DATE

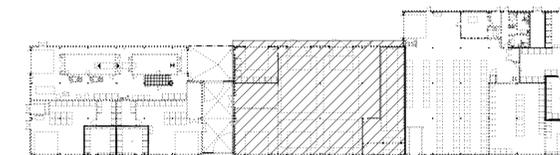
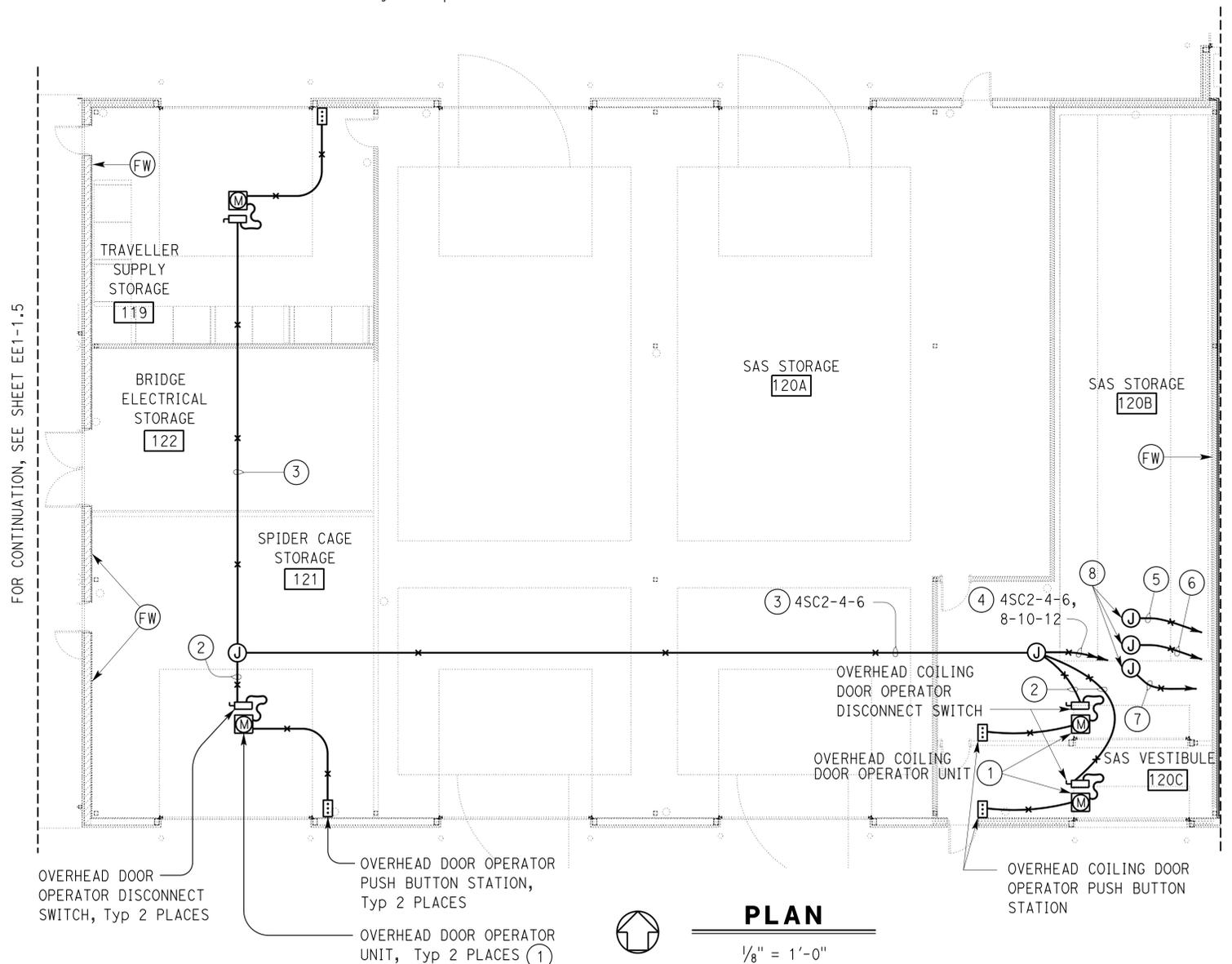
3-24-14
 PLANS APPROVAL DATE

Javid Amirazodi
 No. E 17509
 Exp. 6-30-15
 ELEC
 STATE OF CALIFORNIA

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NOTES:

- ① Overhead door/overhead coiling door operator unit. Install the following for the overhead door/overhead coiling door operator system:
 - 1/2"C, 3#12, 1#12G in between the overhead door/overhead coiling door operator disconnect switch and the overhead door/overhead coiling door operator unit.
 - 1/2"C, control conductors as required in between the overhead door/overhead coiling operator door unit and overhead door/overhead coiling door operator push button station.
 - Junction box and flexible cable between the overhead door/overhead coiling door operator unit and safety edge limit switch.
 - 1/2"C, control cables as required between the overhead door/overhead coiling door operator unit and door chain operated safety limit switch.
- Safety edge limit switch and door chain operated safety limit switch are not shown. Mount overhead door/overhead coiling door operator disconnect switch adjacent to the overhead door/overhead coiling door operator unit.
- ② 1/2"C, 3#12, 1#12G.
- ③ 3/4"C, 3#10, 1#10G.
- ④ 1"C, 6#10, 1#10G.
- ⑤ 2"C, PT to panel 8SA for future Motorized Storage and Retrieval Pallet Rack System.
- ⑥ 2"C, PT to panel 2SB for future Motorized Storage and Retrieval Pallet Rack System.
- ⑦ 2"C, PT to panel 4SA for future Motorized Storage and Retrieval Pallet Rack System.
- ⑧ 8" x 8" x 6" junction box.



KEY PLAN

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 3/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No.	33M5785
POST MILE	

SFOBB WAREHOUSE		SHEET
BUILDING 1B	POWER PLAN 6	EE1-1.6

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3597 CONTRACT No.: 014101
 PROJECT NUMBER & PHASE: 04130001331

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
	3-25-13, 10-28-13, 2-21-14		

GENERAL NOTES:

- A. Location of overhead door/overhead coiling door/overhead shutter operator units and related components as shown is arbitrary only. Exact location depends upon the unit furnished. Provide and install any additional conduit, conductors, cables and equipment necessary for the automatic operation without extra cost to the State. All cables and conductors must be installed in conduit.
- B. Install adequate number of junction boxes as required, without additional cost to the State. Junction boxes must be sized as required to accommodate number of cables/conductors.
- C. Electrical conduits in rooms 125, 126, 127, 129, 130, 131 and 132 must be concealed in ceiling or walls. Electrical conduits in other rooms may be exposed.

- D. For exact location of forklift and forklift battery charger, see Architectural plan sheets.
- E. The areas within 3 feet of spray booth, blast booth, mix booth, and hazardous material storage (rooms 111, 118, 134A and 135) openings and above spray booth, blast booth, mix booth are Class 1 or Class 2, division 2 area. All equipment and wiring methods in this area must comply with Class 1 or Class 2, Division 2 requirements of the 2010 California Electrical Code (CEC). Submit complete installation details including but not limited to conduit route to all equipment, conduit seal locations and equipment mounting height details, etc. for approval to the Engineer, prior to installation. All conduits must be rigid steel conduit.

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 Reviewed by: *Ingrid P. Icastano*
 INGRID P. ICASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		306	371

Javid Amirazodi 02-21-14
 REGISTERED ELECTRICAL ENGINEER DATE

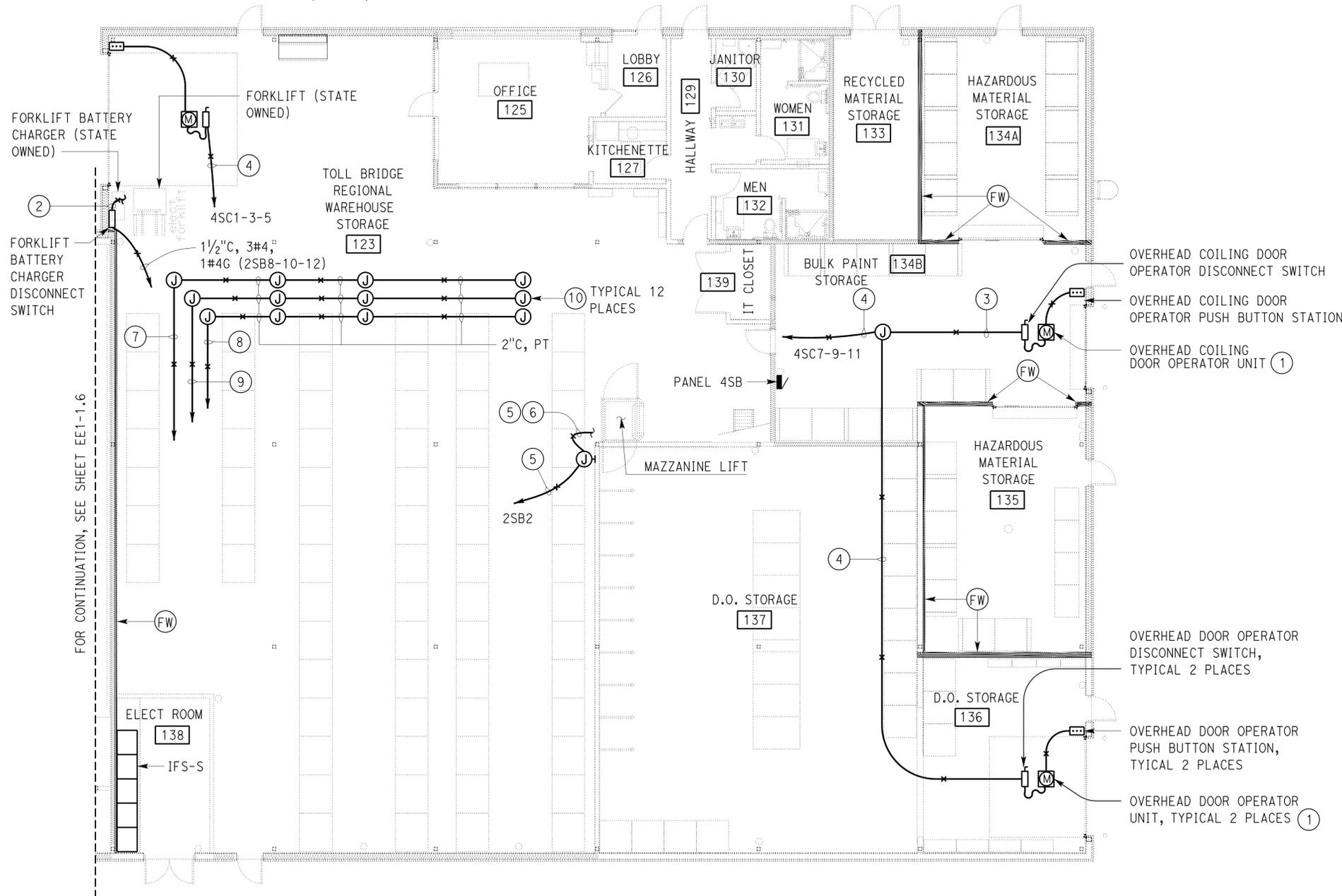
3-24-14
 PLANS APPROVAL DATE

Javid Amirazodi
 No. E. 17509
 Exp. 6-30-15
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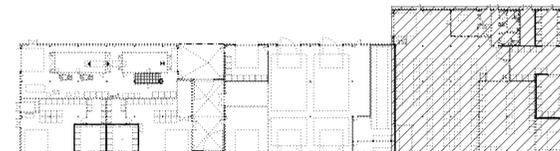
NOTES:

- ① Overhead door/overhead coiling door operator unit. Install the following for the overhead door/overhead coiling door operator system:
 - 1/2"C, 3#12, 1#12G in between the overhead door/overhead coiling door operator disconnect switch and the overhead door/overhead coiling door operator unit.
 - 1/2"C, control conductors as required in between the overhead door/overhead coiling operator door unit and overhead door/overhead coiling door operator push button station.
 - Junction box and flexible cable between the overhead door/overhead coiling door operator unit and safety edge limit switch.
 - 1/2"C, control cables as required between the overhead door/overhead coiling door operator unit and door chain operated safety limit switch.
- Safety edge limit switch and door chain operated safety limit switch are not shown. Mount overhead door/overhead coiling door operator disconnect switch adjacent to the overhead door/overhead coiling door operator unit.
- ② 1 1/2" flex conduit, 3#4, 1#4G to Forklift Battery Charger, terminate as required.
- ③ 1/2"C, 3#12, 1#12G.
- ④ 3/4"C, 3#10, 1#10G.
- ⑤ 1"C, conductors sized per Vertical Wheelchair Lift manufacturer recommendation.
- ⑥ To Vertical Wheelchair Lift Control Panel. Vertical Wheelchair Lift Control Panel is not shown, exact location must be per manufacturer recommendation. Install proper size/type Vertical Wheelchair Lift disconnect switch as required by the manufacturer without any additional cost to the State.
- ⑦ 3"C, PT to panel 8SA for future Motorized Storage and Retrieval Pallet Rack System.
- ⑧ 3"C, PT to panel 2SB for future Motorized Storage and Retrieval Pallet Rack System.
- ⑨ 3"C, PT to panel 4SA for future Motorized Storage and Retrieval Pallet Rack System.
- ⑩ 8" x 8" x 6" junction box.



FOR CONTINUATION, SEE SHEET EE1-1.6

PLAN
 1/8" = 1'-0"



KEY PLAN

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 3/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 33M5785
 POST MILE

SFOBB WAREHOUSE
 BUILDING 1B
 POWER PLAN 7

SHEET EE1-1.7

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3597 CONTRACT No.: 014101
 PROJECT NUMBER & PHASE: 04130001331

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
3-25-13 10-28-13 2-21-14		

NOTES:

- ① Class 1, Division 1 rated area. All equipment and wiring methods in this area must comply with Class 1, Division 1 requirements of the 2010 California Electrical Code (CEC). The Contractor must submit complete installation details including but not limited to conduit routes to all equipment, conduit seal locations and equipment mounting height details, etc. for approval to the Engineer, prior to installation. All conduits must be rigid steel conduit.
- ② 1/2" C, 2#10, 1#10G.
- ③ 1/2" C, control conductors as required.

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 Reviewed by: *Ingrit P. Icastano*
 INGRIT P. ICASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		307	371

Javid Amirazodi 02-21-14
 REGISTERED ELECTRICAL ENGINEER DATE

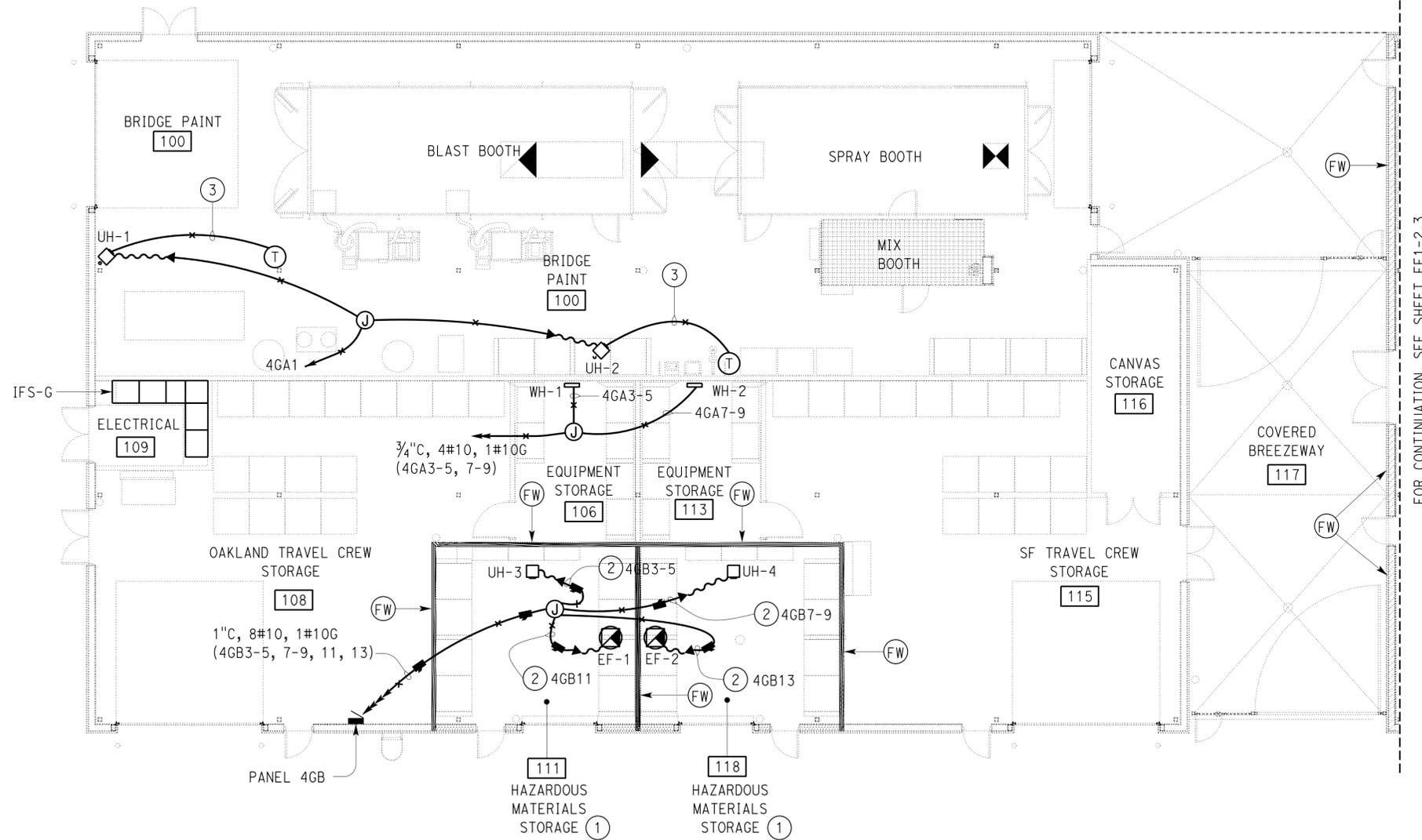
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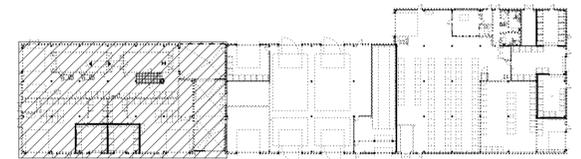
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GENERAL NOTES:

- A. Provide adequate number of junction boxes as required, without additional cost to the State. Junction boxes must be sized as required to accommodate number of cables/conductors.
- B. All base elbows and vertical risers through concrete slab must be PVC coated rigid steel conduit. Wrap joints in contact with soil with two layers of 20 mil thick pipe wrapping tape.
- C. For exact location of wall heaters, unit heaters, exhaust fans and thermostats, see Mechanical plan sheets.
- D. All exhaust fans must be equipped with built in disconnect switch. For details, see Mechanical Specifications.
- E. All unit heaters and wall heaters must be equipped with built in disconnect switch. For details, see Mechanical Specifications.
- F. Unit heaters in Hazardous Material Storage rooms 111 and 118 must be equipped with built in thermostats. For details, see Mechanical Specifications.
- G. The areas within 3 feet of spray booth, blast booth, mix booth, and hazardous material storage (rooms 111, 118, 134A and 135) openings and above spray booth, blast booth, mix booth are Class 1 or Class 2, division 2 area. All equipment and wiring methods in this area must comply with Class 1 or Class 2, Division 2 requirements of the 2010 California Electrical Code (CEC). Submit complete installation details including but not limited to conduit route to all equipment, conduit seal locations and equipment mounting height details, etc. for approval to the Engineer, prior to installation. All conduits must be rigid steel conduit.
- H. Provide conduit flashing as required.
- I. All conduit systems above blast booth, spray booth and mix booth must be rigid steel conduit type.



PLAN
 1/8" = 1'-0"



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DETAILS	BY Ed D. Tapalla 6/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 33M5785
 POST MILE

SFOBB WAREHOUSE

BUILDING 1A

HVAC POWER PLAN 1

SHEET **EE1-2.1**

GENERAL NOTES:

- A. Install adequate number of junction boxes as required, without additional cost to the State. Junction boxes must be sized as required to accommodate number of cables/conductors.
- B. All base elbows and vertical risers through concrete slab must be PVC coated rigid steel conduit. Wrap joints in contact with soil with two layers of 20 mil thick pipe wrapping tape.
- C. For exact location of exhaust fans, blast and recovery units, media recovery hoppers and make-up air unit, see Mechanical plan sheets.
- D. All exhaust fans, blast and recovery units, and make-up air units must be equipped with integrated disconnect switch. For details, see Mechanical Specifications.
- E. The areas within 3 feet of spray booth, blast booth, mix booth, and hazardous material storage (rooms 111, 118, 134A and 135) openings and above spray booth, blast booth, mix booth are Class 1 or Class 2, division 2 area. All equipment and wiring methods in this area must comply with Class 1 or Class 2, Division 2 requirements of the 2010 California Electrical Code (CEC). Submit complete installation details including but not limited to conduit route to all equipment, conduit seal locations and equipment mounting height details, etc. for approval to the Engineer, prior to installation. All conduits must be rigid steel conduit.
- F. Connect conduits and conductors to each unit at locations as required.
- G. Provide conduit flashing as required.
- H. All electrically conductive parts of the spray booth, blast booth, mix booth, exhaust ducts, and spray equipment must be electrically bonded and grounded. Submit plans for review, prior to installation.
- I. All conduit systems above blast booth, spray booth and mix booth must be rigid steel conduit type.

NOTES:

- ① 1"C, 3#8, 1#8G.
- ② 1½"C, 6#8, 1#8G.
- ③ Exhaust fans must be equipped with integral combination starter. Install conduit and conductors from combination starter to exhaust fan as required for automatic operation of the unit.
- ④ 1"C, control conductors as required To BBCP.
- ⑤ 1½"C, 3#4, 2#12, 1#4G.
- ⑥ 2"C, 6#4 (8GA2-4-6, 19-21-23), 2#12 (2GB9), 1#4G.
- ⑦ 1"C, control conductors as required To SBCP.
- ⑧ Three 1" conduits with conductors as required to blast booth interior for lights (operation and interlock), door interlocks, and fire detection devices and any other devices as required for automatic operation.
- ⑨ Three 1" conduits with conductors as required to mix booth interior for lights (operation and interlock), door interlocks, and fire detection devices and any other devices as required for automatic operation.
- ⑩ Provide conduit flashing.
- ⑪ 1"C, conductors as required to spray booth interior for temperature sensor and other devices as required for proper operation.

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: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		308	371

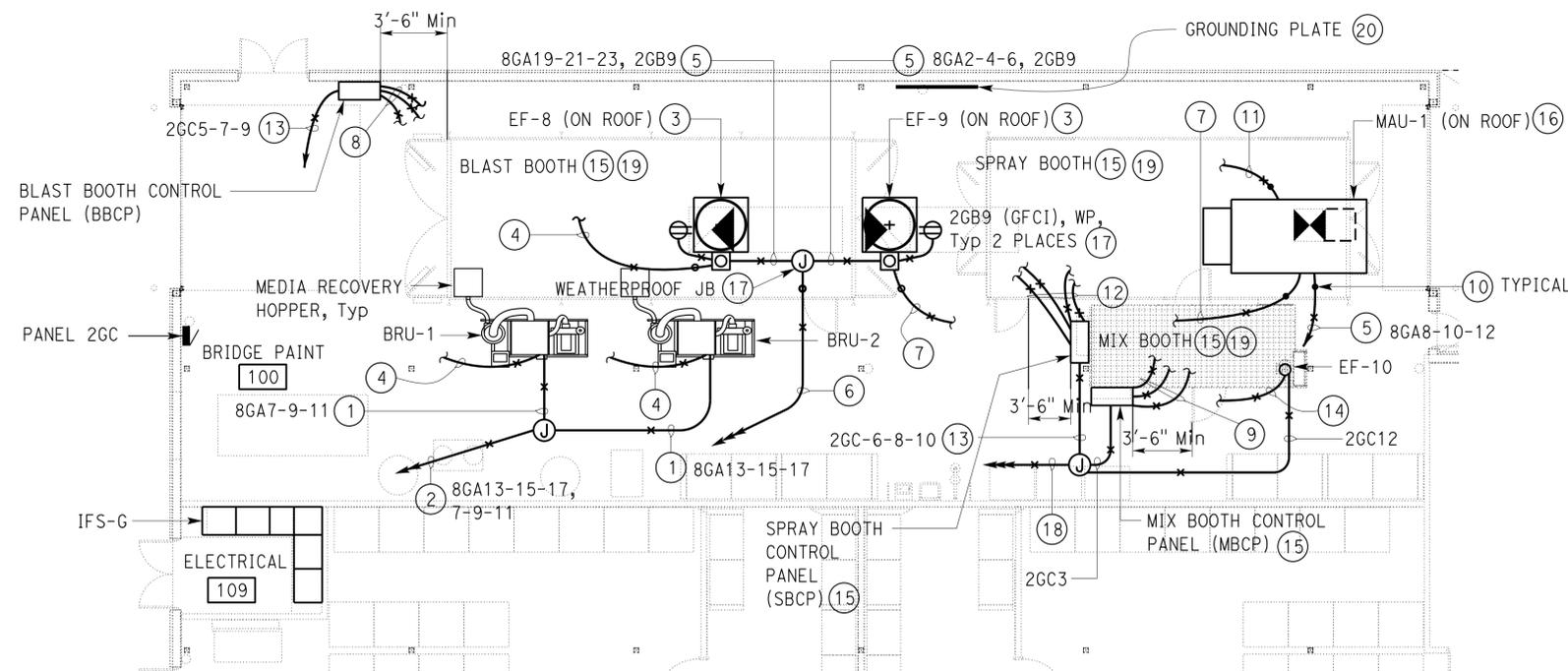
Javid Amirazodi
 REGISTERED ELECTRICAL ENGINEER DATE 02-21-14

3-24-14
 PLANS APPROVAL DATE

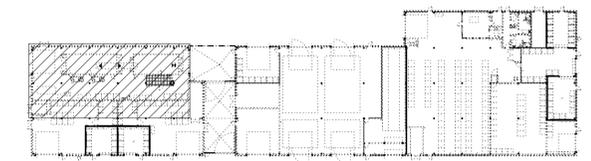
Javid Amirazodi
 No. E 17509
 Exp. 6-30-15
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 STATE OF CALIFORNIA

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- ⑫ Four 1" conduits with conductors as required to spray booth interior for door interlocks, lights (operation and interlock), pressure sensors at filters, temperature sensor, fire detection devices and any other devices as required for automatic operation.
- ⑬ 1"C, 4#8, 1#8G.
- ⑭ 1"C, control conductors as required To MBCP.
- ⑮ Booths, associated control panels and related equipment are specified under Mechanical Specifications. For additional information, see Mechanical Specifications.
- ⑯ Make up air unit must be equipped with integral starter, control devices, and wiring as required for automatic operation of fan and heater. See Mechanical Specifications for details.
- ⑰ Equipment on roof, location is diagrammatic only. Provide and install construction channels for supporting receptacles and junction box. Secure construction channels in a manner to achieve weatherproofing of the roof. Submit details prior to installation.
- ⑱ 1½"C, 4#8 (2GC6-8-10), 2#10 (2GC3), 2#12 (2GC12), 1#8G.
- ⑲ Class 1, Division 1 rated area. All equipment and wiring methods in this area must comply with Class 1, Division 1 requirements of the 2010 California Electrical Code (CEC). Submit complete installation details including but not limited to conduit routes to all equipment, conduit seal locations and equipment mounting height details, etc. for approval to the Engineer, prior to installation. All conduits must be rigid steel conduit.
- ⑳ For exact location of grounding plate and details, see grounding plan.



PLAN
 1/8" = 1'-0"



KEY PLAN

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 6/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

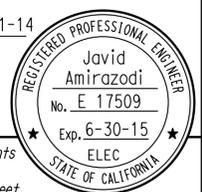
BRIDGE No. 33M5785
 POST MILE

SFOBB WAREHOUSE
 BUILDING 1A
 HVAC POWER PLAN 2

SHEET **EE1-2.2** OF

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: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		309	371
Javid Amirazodi			02-21-14		
REGISTERED ELECTRICAL ENGINEER			DATE		
3-24-14			PLANS APPROVAL DATE		
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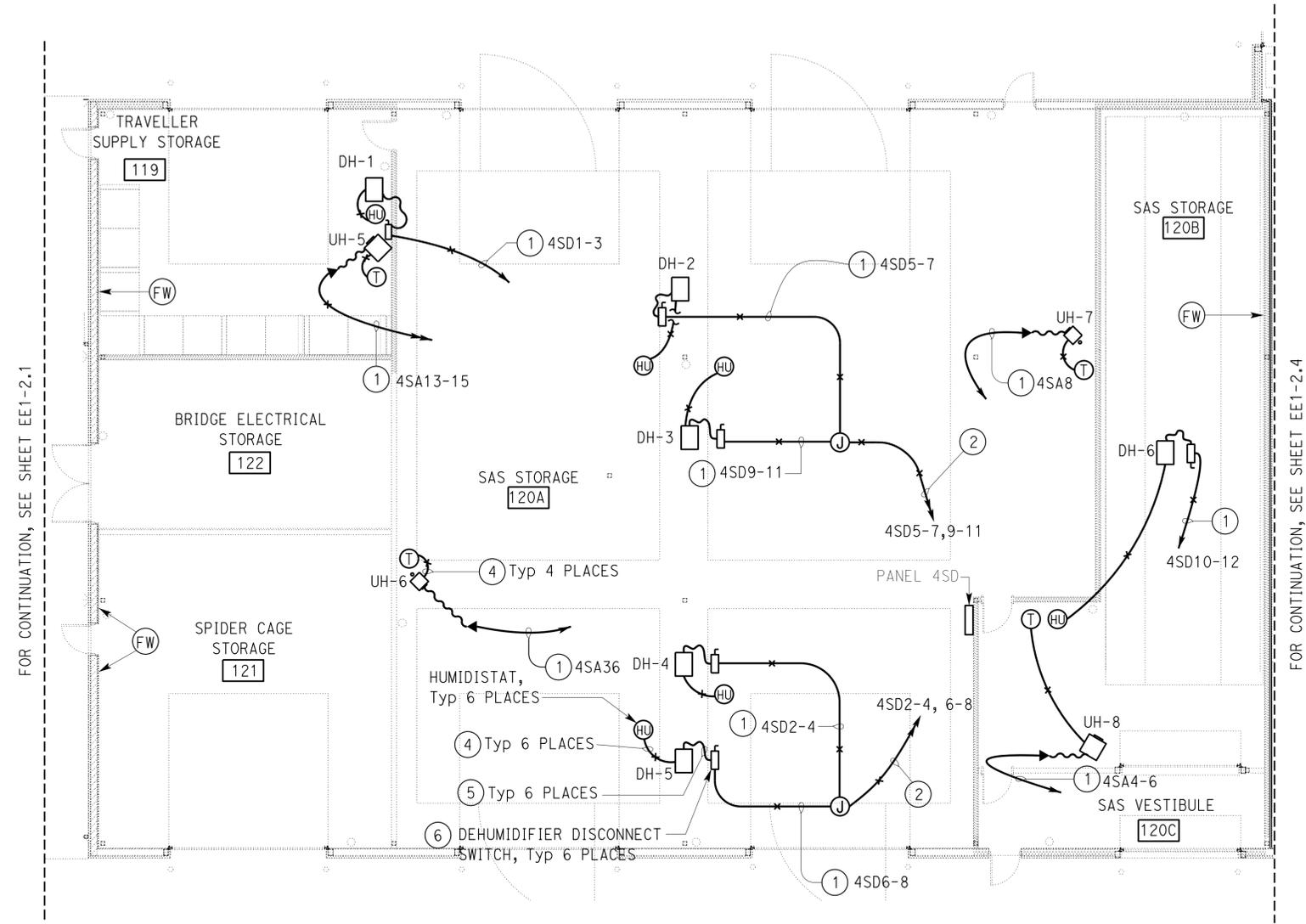


GENERAL NOTES:

- A. Electrical conduits in rooms 125, 126, 127, 129, 130, 131 and 132 must be concealed in ceiling or walls. Electrical conduits in other rooms may be exposed.
- B. Install adequate number of junction boxes as required, without additional cost to the State. Junction boxes must be sized as required to accommodate number of cables\conductors.
- C. All base elbows and vertical risers through concrete slab must be PVC coated rigid steel conduit. Wrap joints in contact with soil with two layers of 20 mil thick pipe wrapping tape.
- D. For exact location of dehumidifiers, unit heaters, exhaust fans, thermostats and humidistats, see Mechanical plan sheets.
- E. All unit heaters must be equipped with built in disconnect switch. For details, see Mechanical Specifications.
- F. Provide conduit flashing as required.

NOTES:

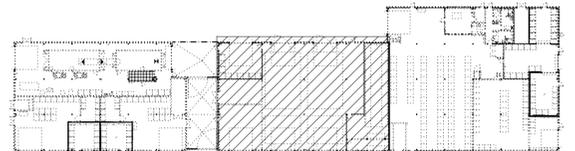
- ① 3/4"C, 2#8, 1#8G.
- ② 1"C, 4#8, 1#8G.
- ③ Not used
- ④ 1/2"C, control conductors as required.
- ⑤ 3/4" flexible conduit, 2#8, 1#8G.
- ⑥ Install dehumidifier disconnect switch adjacent to dehumidifier and as recommended by the unit manufacturer.



FOR CONTINUATION, SEE SHEET EE1-2.1

FOR CONTINUATION, SEE SHEET EE1-2.4

PLAN
 1/8" = 1'-0"



KEY PLAN

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 6/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

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

BRIDGE No.	33M5785	SFOBB WAREHOUSE	BUILDING 1B	HVAC POWER PLAN 3	SHEET EE1-2.3
POST MILE					

GENERAL NOTES:

- A. Electrical conduits in rooms 125, 126, 127, 129, 130, 131 and 132 must be concealed in ceiling or walls. Electrical conduits in other rooms may be exposed.
- B. Install adequate number of junction boxes as required, without additional cost to the State. Junction boxes must be sized as required to accommodate number of cables/conductors.
- C. For exact location of unit heaters, thermostats, circulation fans and exhaust fans, see Mechanical plan sheets.
- D. All exhaust fans must be equipped with built in disconnect switch. For details, see Mechanical Specifications.

- E. All unit heaters must be equipped with built in disconnect switch. For details, see Mechanical Specifications.
- F. Unit heaters in Hazardous Material Storage rooms 134A and 135 must be equipped with built in thermostats. For details, see Mechanical Specifications.
- G. The areas within 3 feet of spray booth, blast booth, mix booth, and hazardous material storage (rooms 111, 118, 134A and 135) openings and above spray booth, blast booth, mix booth are Class 1 or Class 2, division 2 area. All equipment and wiring methods in this area must comply with Class 1 or Class 2, Division 2 requirements of the 2010 California Electrical Code (CEC). Submit complete installation details including but not limited to conduit route to all equipment, conduit seal locations and equipment mounting height details, etc. for approval to the Engineer, prior to installation. All conduits must be rigid steel conduit.

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

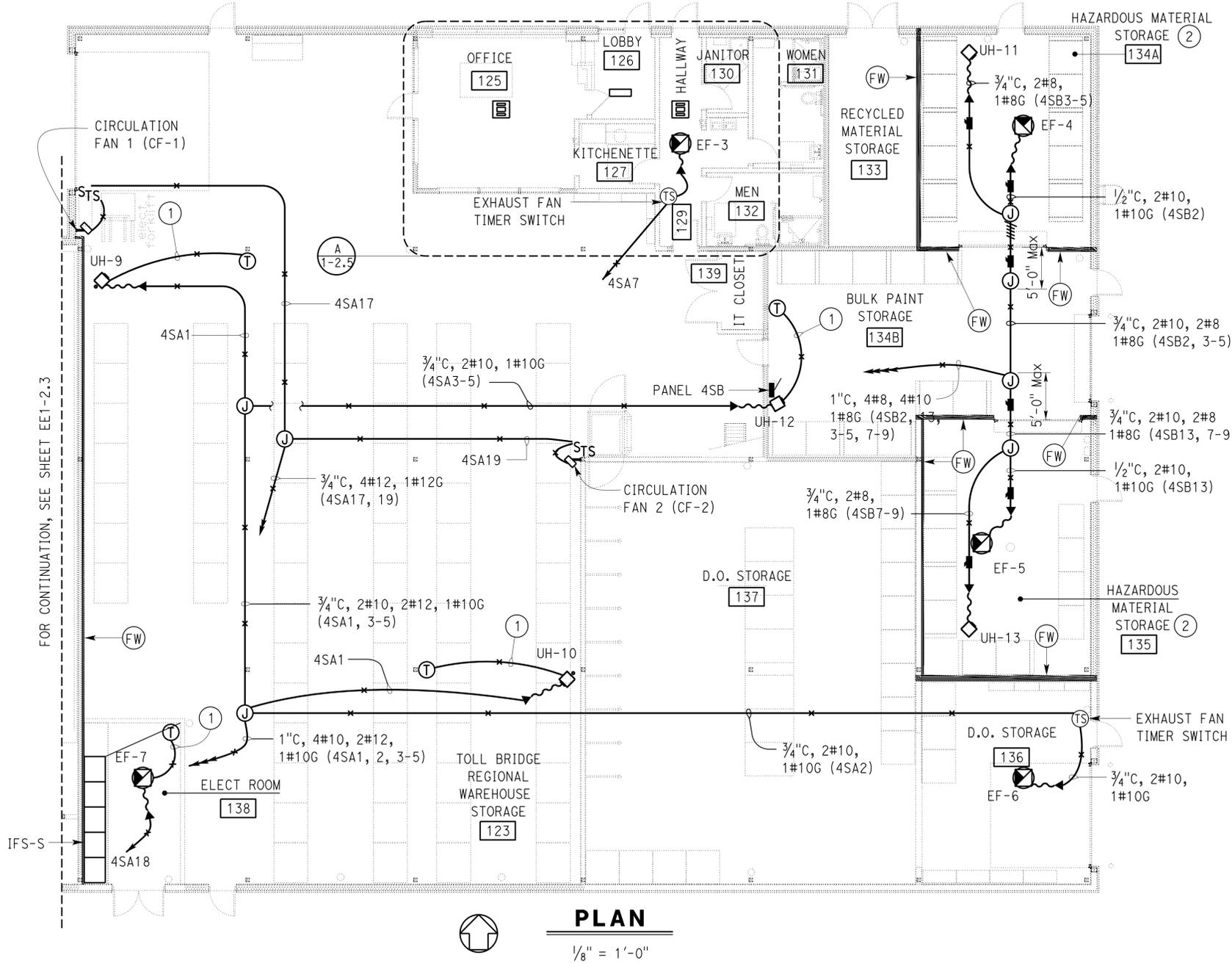
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		310	371

Javid Amirazodi 02-21-14
 REGISTERED ELECTRICAL ENGINEER DATE

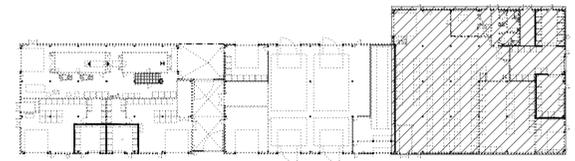
3-24-14
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 Javid Amirazodi
 No. E 17509
 Exp. 6-30-15
 ELEC
 STATE OF CALIFORNIA



- NOTES:
- ① 1/2\"C, control conductors as required.
 - ② Class 1, Division 1 rated area. All equipment and wiring methods in this area must comply with Class 1, Division 1 requirements of the 2010 California Electrical Code (CEC). Submit complete installation details including but not limited to conduit routes to all equipment, conduit seal locations and equipment mounting height details, etc. for approval to the Engineer, prior to installation. All conduits must be rigid steel conduit.



KEY PLAN

PLAN

1/8" = 1'-0"

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 6/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

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

BRIDGE No.	33M5785	SFOBB WAREHOUSE	BUILDING 1B	HVAC POWER PLAN 4	SHEET EE1-2.4
POST MILE					

NOTES:

- ① 3/4"C, 2#8 (outdoor unit power).
- ② 1"C, 4#8 (indoor units power), control conductors as required, 1#8G.
- ③ 1 1/2"C, 2#8 (outdoor unit power), 4#8 (indoor units power), 2#12 (outdoor receptacle), control conductors as required, 1#8G.
- ④ 1"C, 2#8 (indoor unit power), control conductors as required, 1#8G.
- ⑤ 1"C, 2#8 (outdoor unit power), 2#12 (outdoor receptacle), 1#8G.
- ⑥ 1/2"C, control conductors as required.
- ⑦ Equipment located on A/C-1 outdoor unit platform, locations are diagrammatic only.
- ⑧ Install construction channels for supporting manual motor starting switch, weatherproof receptacle and junction box. Secure construction channels to the platform in a manner to achieve weatherproofing of the roof. Submit details to the Engineer for approval prior to installation.
- ⑨ Provide conduit flashing.
- ⑩ Install disconnect switch adjacent to the unit as recommended by the unit manufacturer.

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: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		311	371

Javid Amirazodi 02-21-14
 REGISTERED ELECTRICAL ENGINEER DATE

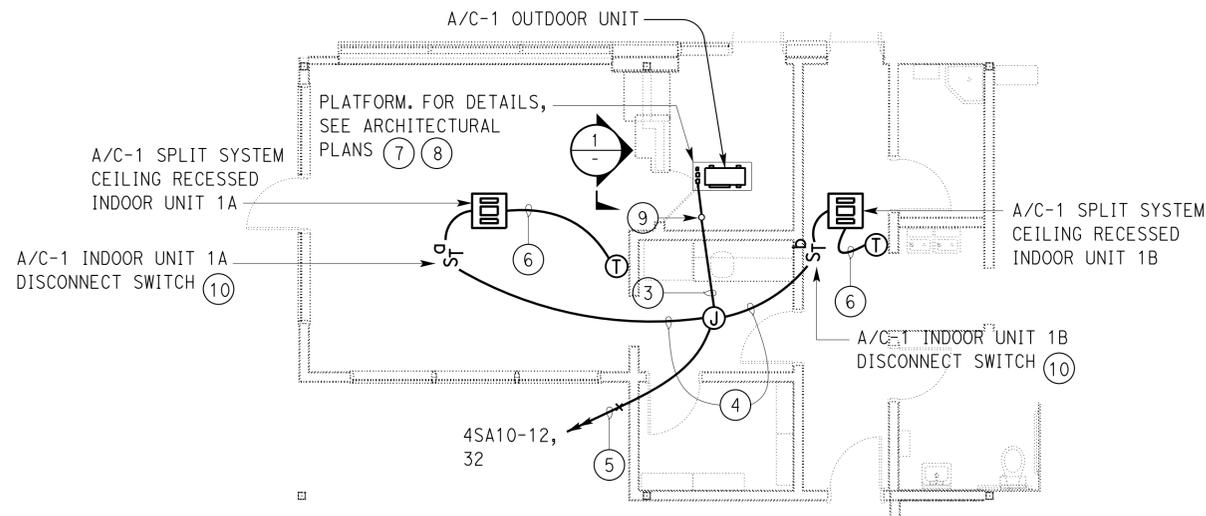
3-24-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Javid Amirazodi
 No. E 17509
 Exp. 6-30-15
 ELEC
 STATE OF CALIFORNIA

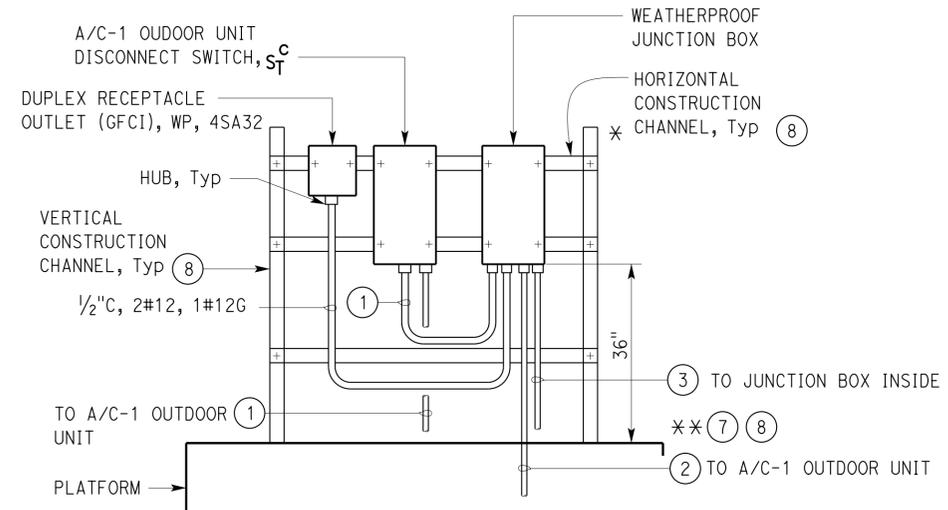
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

GENERAL NOTES:

- A. For exact location of thermostats, A/C split system outdoor and indoor units, see Mechanical plan sheets
- B. All conduit system on roof must be rigid steel conduit type.

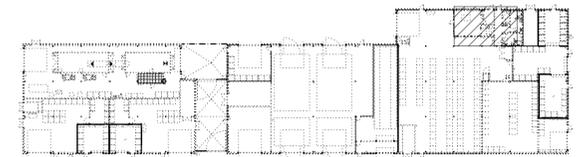


A ENLARGED PLAN
 NO SCALE



1 DETAIL
 NO SCALE

- * ALL EQUIPMENT ON ROOF.
- ** PROVIDE ANGEL BRACKETS AND BACK BRACING AS REQUIRED.



KEY PLAN

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 6/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

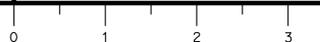
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No.
 33M5785
 POST MILE

SFOBB WAREHOUSE
 BUILDING 1B
 HVAC POWER PLAN 5
 SHEET **EE1-2.5** OF

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3597 CONTRACT No.: 014101
 PROJECT NUMBER & PHASE: 04130001331

DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES (PRELIMINARY STAGE ONLY)
 10-28-13 | 12-31-13 | 2-21-14
 SHEET OF

ROOM NAME SCHEDULE

ROOM No.	ROOM NAME	ROOM No.	ROOM NAME	ROOM No.	ROOM NAME	ROOM No.	ROOM NAME
100	BRIDGE PAINT	111	HAZARDOUS MATERIAL STORAGE	120C	SAS VESTIBULE	131	WOMEN
101	NOT USED	112	NOT USED	121	SPIDER CAGE STORAGE	132	MEN
102	NOT USED	113	EQUIPMENT STORAGE	122	BRIDGE ELECTRICAL STORAGE	133	RECYCLED MATERIAL STORAGE
103	NOT USED	114	NOT USED	123	TOLL BRIDGE REGIONAL WAREHOUSE	134A	HAZARDOUS MATERIAL STORAGE
104	NOT USED	115	SF TRAVEL CREW STORAGE	124	MEZZANINE STORAGE	134B	BULK PAINT STORAGE
105	NOT USED	116	CANVAS STORAGE	125	OFFICE	135	HAZARDOUS MATERIAL STORAGE
106	EQUIPMENT STORAGE	117	COVERED BREEZEWAY	126	LOBBY	136	D. O. STORAGE
107	NOT USED	118	HAZARDOUS MATERIAL STORAGE	127	KITCHENETTE	137	D.O. STORAGE
108	OAKLAND TRAVEL CREW STORAGE	119	TRAVELLER SUPPLY STORAGE	128	NOT USED	138	ELECT ROOM
109	ELECTRICAL	120A	SAS STORAGE	129	HALLWAY	139	IT CLOSET
110	NOT USED	120B	SAS STORAGE	130	JANITOR		

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		312	371

Catalino A. Enriquez 02-21-14
 REGISTERED ELECTRICAL ENGINEER DATE

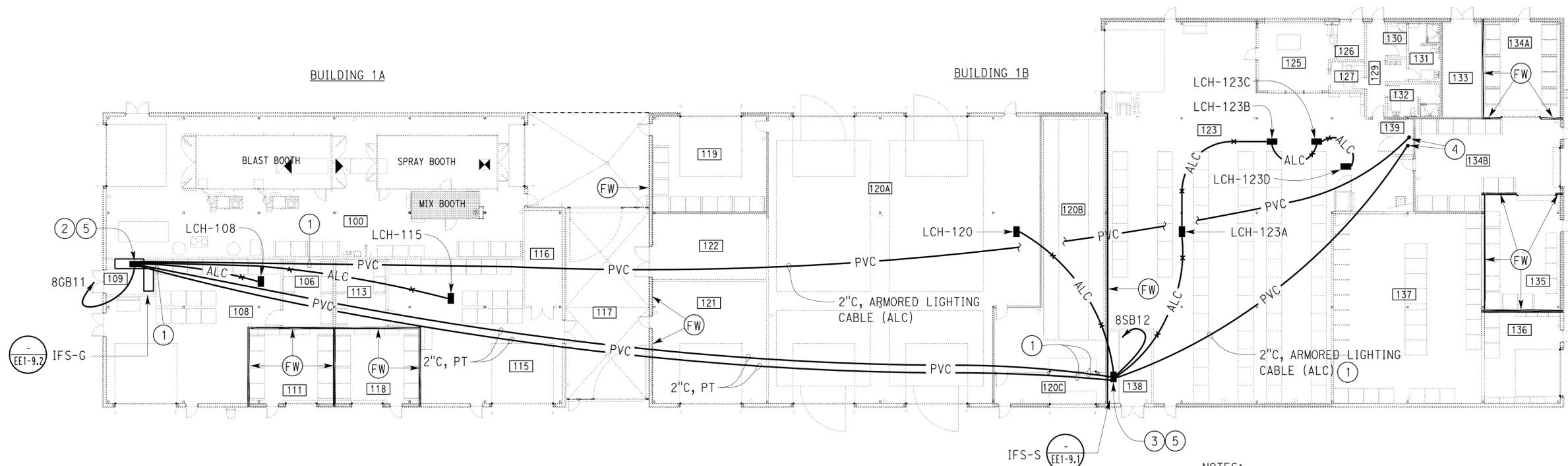
3-24-14
 PLANS APPROVAL DATE

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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: *Ingrido P. Icasiano*
 INGRID P. ICASIANO
 Approval date: 02-11-14



GENERAL NOTES:

- A. For location of electrical panelboards and lighting network panels, see sheet EE1-1.0.
- B. For block diagram showing interconnection of lighting network gateways (LNG) and lighting control hubs (LCH), see sheet EE1-3.2.
- C. Label all armored lighting cables with room names and numbers that is being served or controlled by it.

PLAN
 1/16" = 1'-0"

NOTES:

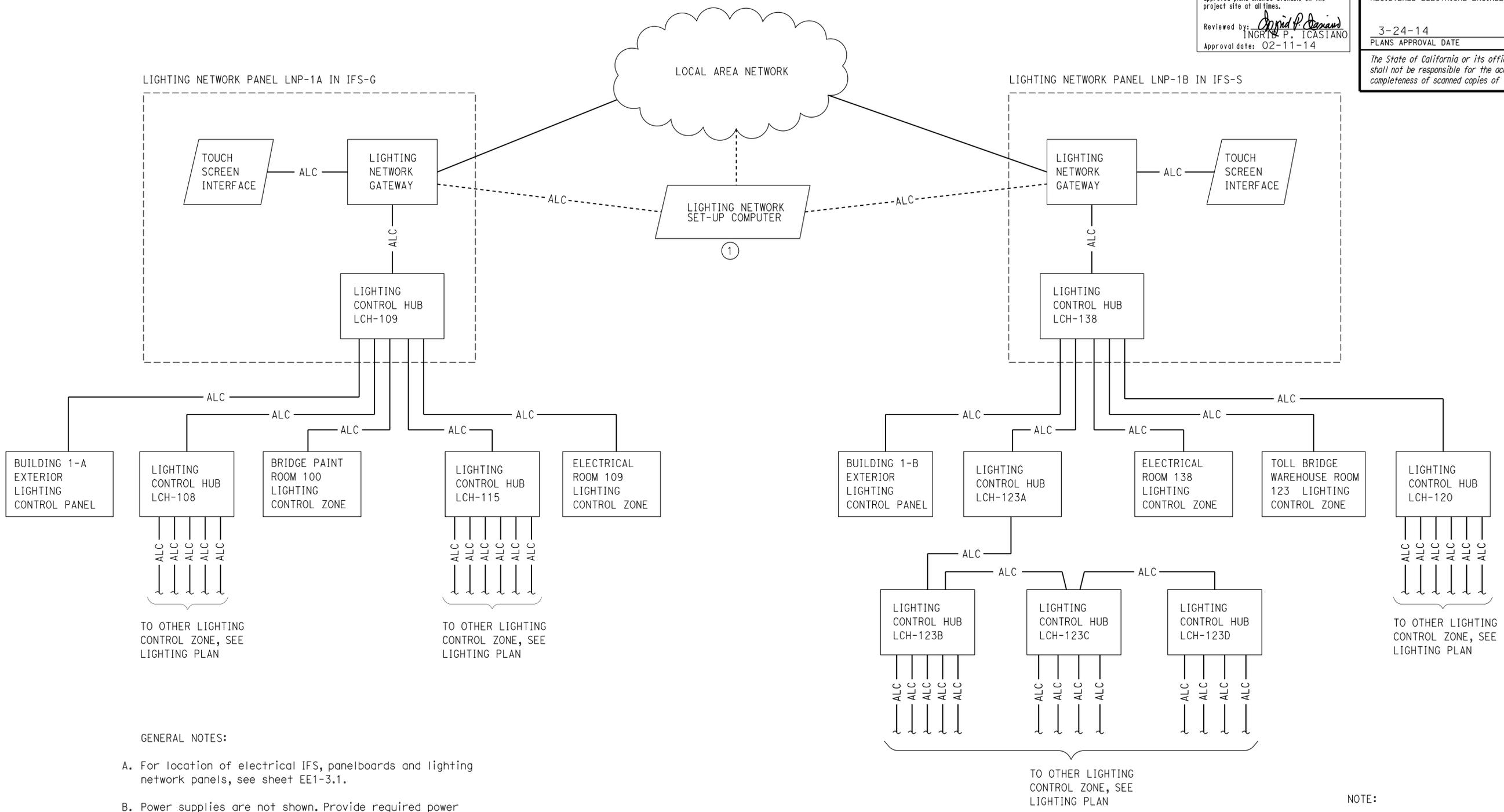
- ① Stub up conduit in the IFS section where lighting panel is located.
- ② Lighting network panel LNP-1A in IFS-G.
- ③ Lighting network panel LNP-1B in IFS-S.
- ④ Location of conduit stub up is approximate only. Coordinate with other system's conduit stub up. Terminate lighting cable to local area network's equipment as required.
- ⑤ Provide and install barrier between low voltage and high voltage wiring inside lighting network panel.

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY <i>Catalino Enriquez</i>	CHECKED <i>James Lacy</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE	SHEET EE1-3.1
	DETAILS BY <i>Ed D. Tapalla 10/13</i>			CHECKED <i>Catalino Enriquez</i>		
QUANTITIES BY <i>Catalino Enriquez</i>	CHECKED <i>James Lacy</i>	UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

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: *Ingrid P. Icastano*
 INGRID P. ICASIANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		313	371
Catalino A. Enriquez			02-21-14		
REGISTERED ELECTRICAL ENGINEER			DATE		
3-24-14			PLANS APPROVAL DATE		
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GENERAL NOTES:

- A. For location of electrical IFS, panelboards and lighting network panels, see sheet EE1-3.1.
- B. Power supplies are not shown. Provide required power supplies to operate lighting network gateways and lighting control hubs.
- C. Label all armored lighting cables with room names and numbers that is being served or controlled by it.
- D. For lighting control programming for each indoor spaces in the building see sheet EE1-3.22 through EE1-3.24.

NOTE:

- ① Lighting network set-up computer must be able to communicate to lighting network gateway both directly and through local area network. Provide lighting set-up computer, programming software for operation, and communication cable.

BLOCK DIAGRAM

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Ed D. Tapalla 10/13	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 33M5785
 POST MILE

SFOBB WAREHOUSE

LIGHTING NETWORK INTERCONNECTION

SHEET **EE1-3.2** OF

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		314	371
<i>James R. Lacy</i> REGISTERED ELECTRICAL ENGINEER			02-21-14 DATE		
3-24-14 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.		

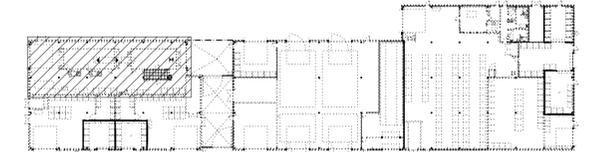
GENERAL NOTES:

- A. For location of electrical panelboards, see sheet EE1-1.0.
- B. For interconnection of lighting network gateways (LNG) and lighting control hubs (LCH), see sheet EE1-3.2.
- C. For lighting power plan in this area, see sheet EE1-3.4.
- D. All power pack relays, lighting control hub, and interface dimming device must be installed inside a junction box and mounted in an open ceiling for easy maintenance.
- E. Label all power pack relays and lighting control hub with corresponding circuit number that is feeding it, and the room names, numbers and zones that is being controlled by the device. The same labels must be installed outside the junction box where it is conspicuous.
- F. All splices of line voltage conductors for power packs, and power supplies must be enclosed in junction box.
- G. Numbers of installed occupancy sensors and dimming photocell as shown is minimum only. Install additional occupancy sensors and dimming photocell as required to cover all areas.
- H. Label all armored lighting cables the with the room names and numbers that is being served and controlled by it.

- H. The areas within 3 feet of spray booth, blast booth and mix booth openings are classified as Class 1 or Class 2, Division 2 area. All equipment and wiring methods in these areas must comply with Class 1 or Class 2, Division 2 requirements of the California Electrical Code (CEC) as applicable. During submittal process and prior to installation, submit complete lighting control installation details including but not limited to lighting network interconnection details, conduits and cables route to all equipment, conduit seal locations, and equipment location details for approval to the Engineer.
- I. Install all lighting sensors, power pack relays, cables, and other electrical devices that are not rated for Class 1 or Class 2, Division 2 application away from the applicable classified area.

NOTES:

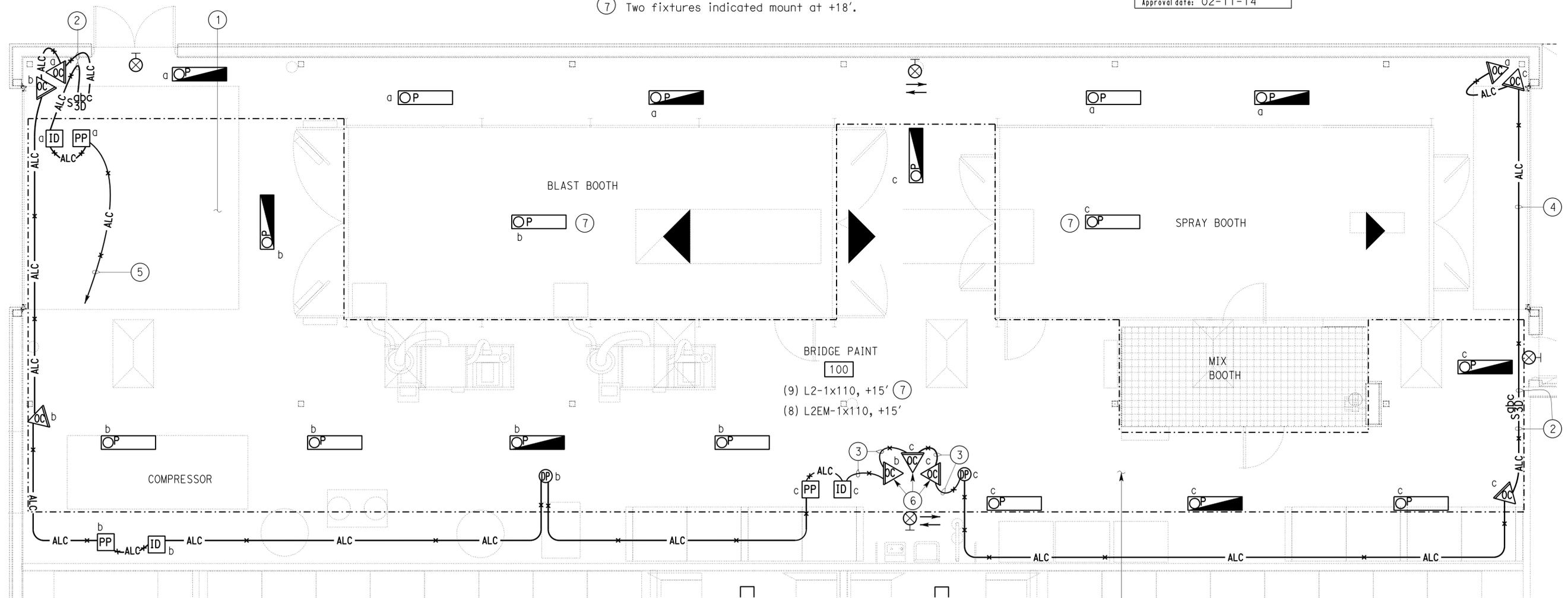
- ① Area enclosed in dashed line is Skylit Daylit Zone.
- ② Install armored lighting cable (ALC) inside 1-1/4-inch conduit from switch height plus 6-feet above it.
- ③ Install armored lighting cable (ALC).
- ④ Route cable along the wall and away from the classified area.
- ⑤ To lighting control hub inside IFS-G at Electrical Room No.109.
- ⑥ Provide and install occupancy sensors on ceiling mount bracket.
- ⑦ Two fixtures indicated mount at +18'.



KEY PLAN

NO SCALE

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: *Ingrit P. Casiano*
 INGRIT P. CASIANO
 Approval date: 02-11-14



PLAN
 1/4" = 1'-0"

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY Catalino Enriquez	CHECKED BY James Lacy	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE		SHEET EE1-3.3
				POST MILE	BUILDING 1A	LIGHTING CONTROL PLAN 1	
DETAILS BY Dali Zhou	CHECKED BY Catalino Enriquez	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3596 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY Catalino Enriquez	CHECKED BY James Lacy	0 1 2 3		3-25-13 10-28-13 1-14-14 2-21-14			

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		315	371
Approved by: <i>James R. Lacy</i> REGISTERED ELECTRICAL ENGINEER DATE 02-21-14			Reviewed by: <i>Ingrid P. Castano</i> INGRID P. CASTANO Approval date: 02-11-14		
3-24-14 PLANS APPROVAL DATE			REGISTERED PROFESSIONAL ENGINEER James Lacy No. E13770 Exp. 9-30-15 ELEC STATE OF CALIFORNIA		
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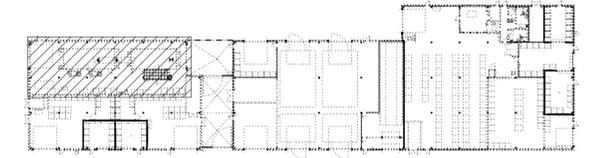
GENERAL NOTES:

- A. For location of electrical panelboards, see sheet EE1-1.0.
- B. For low voltage cabling and lighting control for this area, see sheet EE1-3.3.
- C. Label all power pack relays and lighting control hub with corresponding circuit number that is feeding it, and the room names, numbers and zones that is being controlled by the device. The same labels must be installed outside the junction box where it is conspicuous.
- D. All splices of line voltage conductors for power packs, and power supplies must be enclosed in junction box.
- E. The areas within 3 feet of spray booth, blast booth and mix booth openings are classified as Class 1 or Class 2, Division 2 area. All equipment and wiring methods in these areas must comply with Class 1 or Class 2, Division 2 requirements of the California Electrical Code (CEC) as applicable. During submittal process and prior to installation, submit complete lighting control installation details including but not limited to lighting network interconnection details, conduits and cables route to all equipment, conduit seal locations, and equipment location details for approval to the Engineer.
- F. Install all lighting switches, sensors, power pack relays, cables, and other devices that are not rated for Class 1 or Class 2, Division 2 application away from the applicable classified area.

- G. Light dimming cable without armor must be used if cable will be installed inside a conduit.
- H. Use rigid steel conduit for conduit installation unless otherwise noted.
- I. Use flexible conduit coupling rated for hazardous location to integrate lights into conduit system as required.

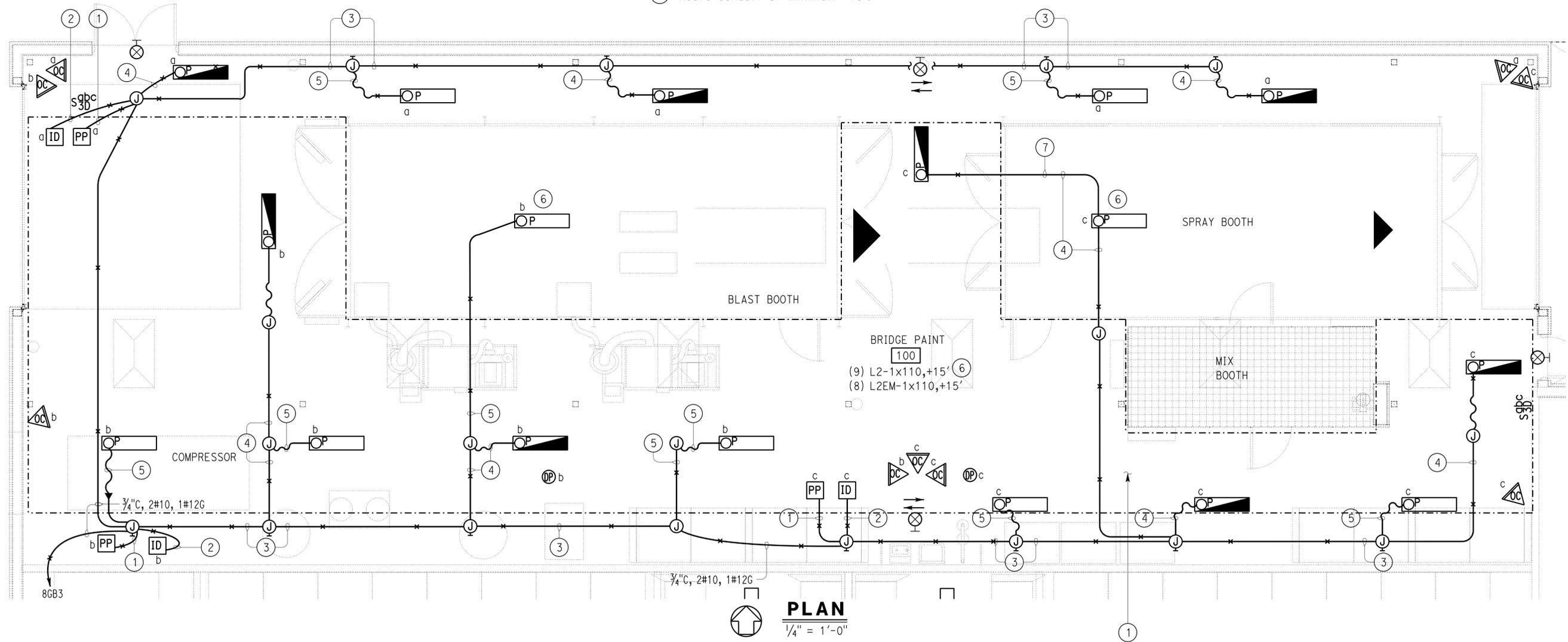
NOTES:

- ① 3/4"C, 3#10, 1#12G.
- ② Light dimming cable.
- ③ 1/4"C, 3#10, light dimming cable, 1#12G.
- ④ 1"C, 3#12, light dimming cable, 1#12G.
- ⑤ 1"C, 2#12, light dimming cable, 1#12G.
- ⑥ Two fixtures indicated mount at +18'.
- ⑦ Route conduit at minimum +18'.



KEY PLAN

NO SCALE



PLAN

1/4" = 1'-0"

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY: Catalino Enriquez CHECKED: James Lacy DETAILS BY: Dali Zhou CHECKED: Catalino Enriquez QUANTITIES BY: Catalino Enriquez CHECKED: James Lacy	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785 POST MILE	SFOBB WAREHOUSE BUILDING 1A LIGHTING POWER PLAN 1	SHEET EE1-3.4 OF
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3	UNIT: 3596 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 3-25-13 10-28-13 2-21-14	SHEET OF
	TAEWW Imperial - CCSC Rev. 01/13 P:\dist_04\0413000133_sfobb_main_warehouse\elec\files\final_EXPEDITE (HOPEFULLY)\ee1_3.04.dgn				

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		316	371
Catalino A. Enriquez REGISTERED ELECTRICAL ENGINEER			02-21-14 DATE	Catalino Enriquez No. E. 16944 Exp. 6-30-15 ELEC STATE OF CALIFORNIA	
3-24-14 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.					

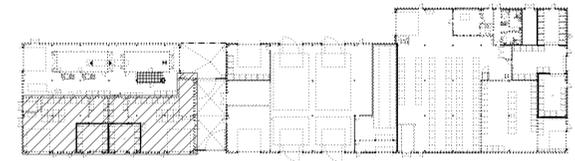
CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

GENERAL NOTES:

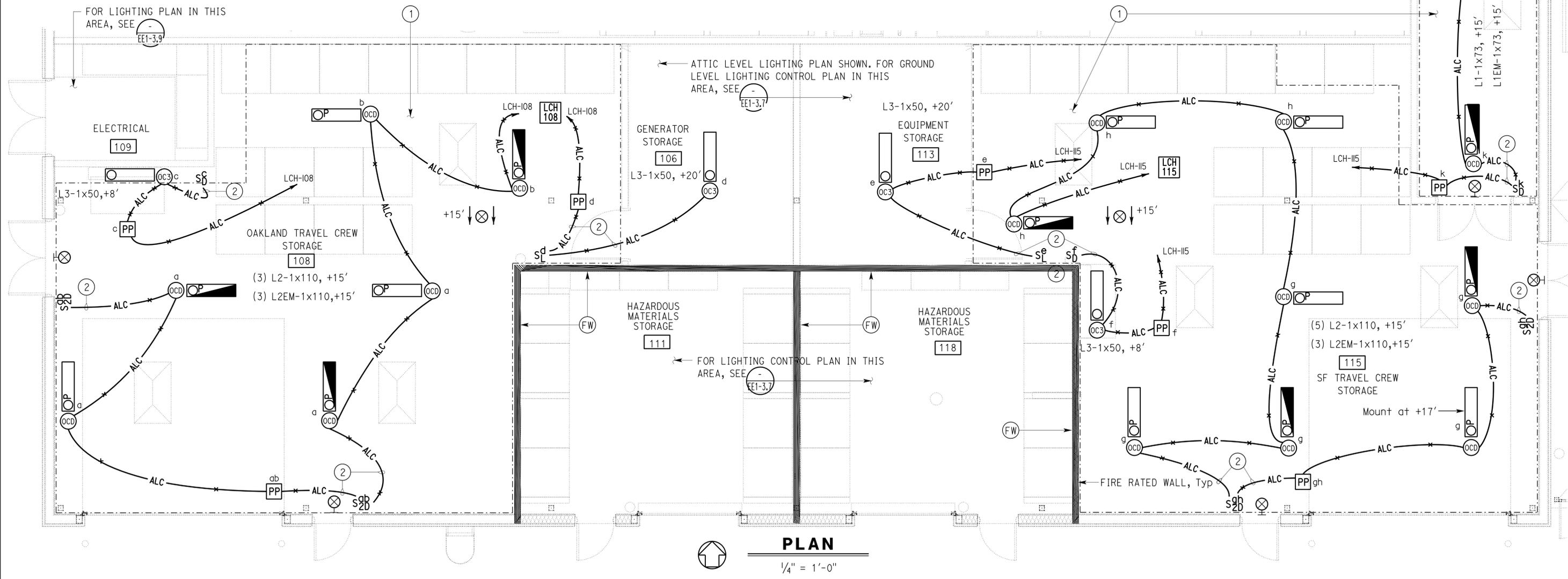
- A. For location of electrical panelboards, see sheet EE1-1.0.
- B. For interconnection of lighting network gateways (LNG) and lighting control hubs (LCH), see sheet EE1-3.2.
- C. For lighting power plan in this area, see sheet EE1-3.6.
- D. All power pack relays, lighting control hub, and interface dimming device must be installed inside a junction box and mounted in an open ceiling for easy maintenance.
- E. Label all power pack relays and lighting control hub with corresponding circuit number that is feeding it, and the room names, numbers and zones that is being controlled by the device. The same labels must be installed outside the junction box where it is conspicuous.
- F. All splices of line voltage conductors for power packs, and power supplies must be enclosed in junction box.
- G. Numbers of installed occupancy sensors and dimming photocell as shown is minimum only. Install additional occupancy sensors and dimming photocell as required to cover all areas.
- H. Label all armored lighting cables the with the room names and numbers that is being served and controlled by it.

NOTES:

- ① Area enclosed in dashed line is Skylit Daylit Zone.
- ② Install armored lighting cable (ALC) inside 1-1/4-inch conduit from switch height plus 6-feet above it.



KEY PLAN
NO SCALE



PLAN

1/4" = 1'-0"

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE BUILDING 1A LIGHTING CONTROL PLAN 2	SHEET EE1-3.5 OF	
	DETAILS BY Dali Zhou	CHECKED Catalino Enriquez			POST MILE			
	QUANTITIES BY Catalino Enriquez	CHECKED James Lacy						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331		DISREGARD PRINTS BEARING EARLIER REVISION DATES			
TAEWW Imperial - CCSC Rev. 01/13			0 1 2 3		REVISION DATES (PRELIMINARY STAGE ONLY) 3-25-13 10-28-13 12-28-13 2-21-14			SHEET OF

30-APR-2014 09:49

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: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		317	371

Catalino A. Enriquez 02-21-14
 REGISTERED ELECTRICAL ENGINEER DATE

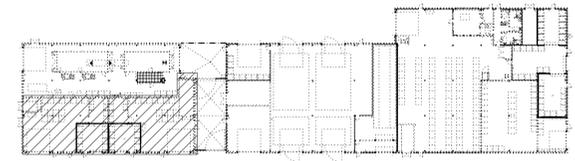
3-24-14
 PLANS APPROVAL DATE

Catalino Enriquez
 No. E. 16944
 Exp. 6-30-15
 ELEC
 STATE OF CALIFORNIA

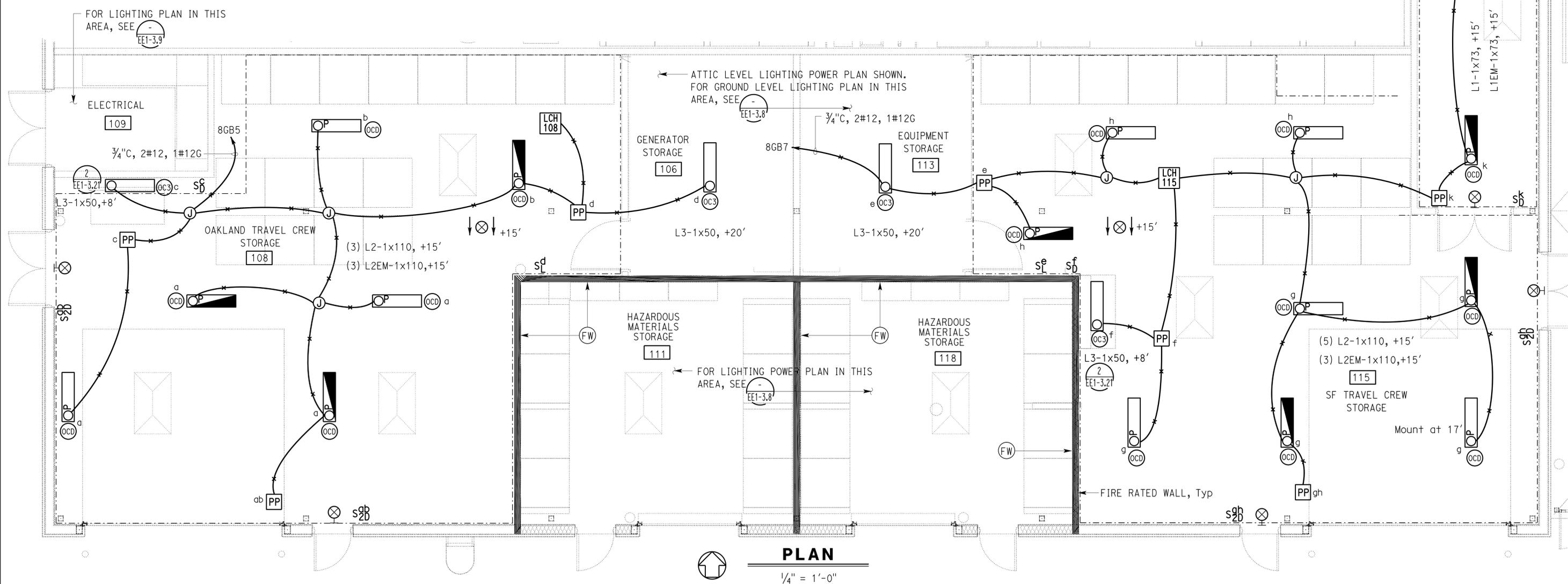
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

GENERAL NOTES:

- A. For location of electrical panelboards, see sheet EE1-1.0.
- B. For low voltage cabling and lighting control for this area, see sheet EE1-3.5.
- C. Label all power pack relays and lighting control hub with corresponding circuit number that is feeding it, and the room names, numbers and zones that is being controlled by the device. The same labels must be installed outside the junction box where it is conspicuous.
- D. All splices of line voltage conductors for power packs, and power supplies must be enclosed in junction box.



KEY PLAN
NO SCALE



APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY Catalino Enriquez CHECKED James Lacy	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE		SHEET EE1-3.6
			POST MILE	BUILDING 1A	LIGHTING POWER PLAN 2	
			REVISION DATES (PRELIMINARY STAGE ONLY)			
DETAILS BY Dali Zhou CHECKED Catalino Enriquez	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	3-25-13 10-25-13 12-28-13 2-21-14	SHEET OF	
QUANTITIES BY Catalino Enriquez CHECKED James Lacy						

TAEWW Imperial - CCSC Rev. 01/13

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CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

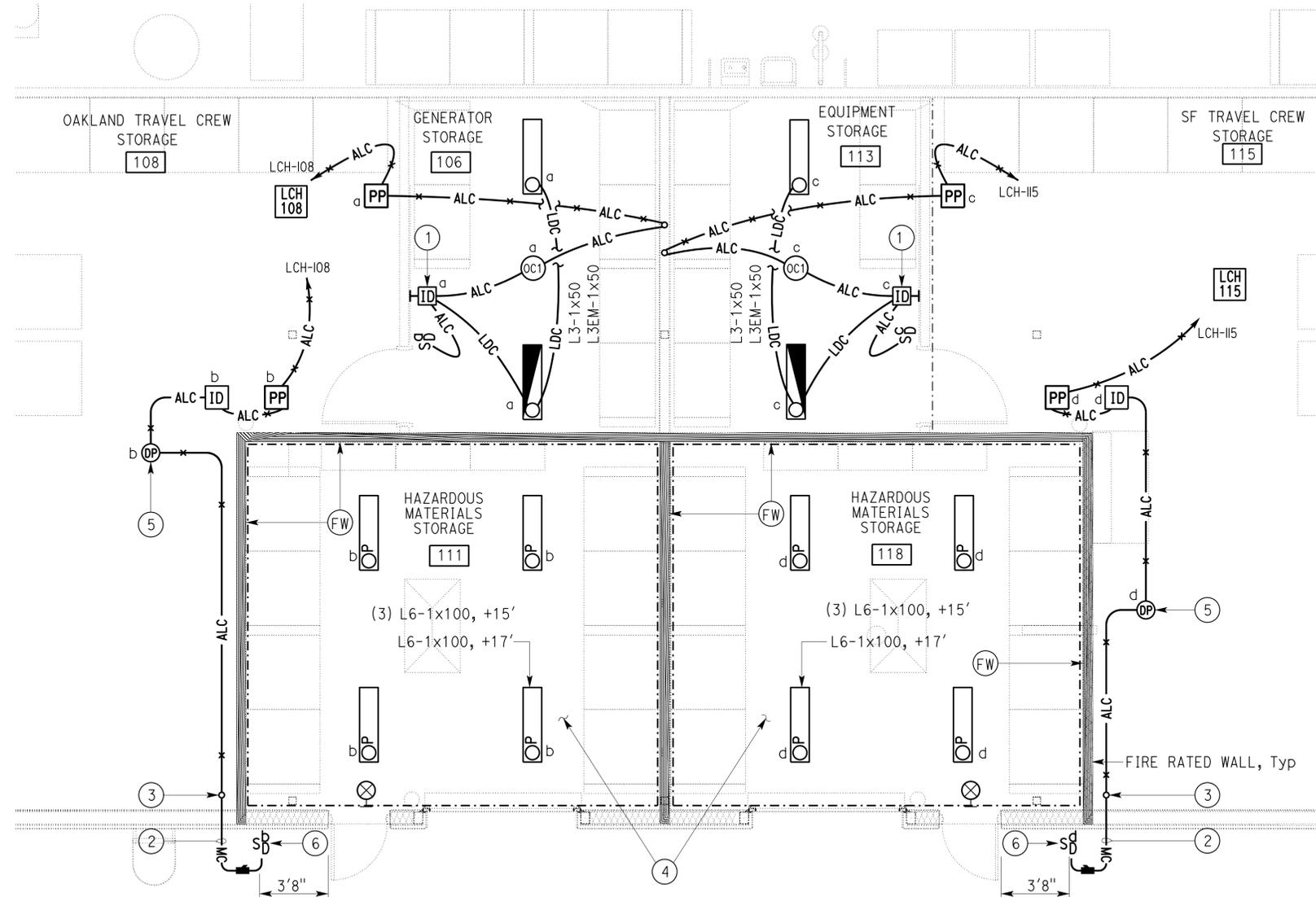
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		318	371

Catalino A. Enriquez 02-21-14
 REGISTERED ELECTRICAL ENGINEER DATE

3-24-14
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 Catalino Enriquez
 No. E. 16944
 Exp. 6-30-15
 ELEC
 STATE OF CALIFORNIA



PLAN
 1/4" = 1'-0"

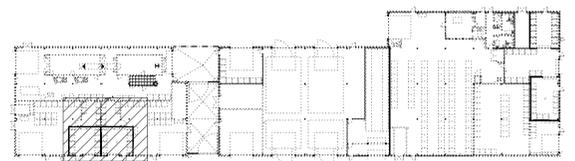
⑥ Install light switch inside a NEMA 3R junction box. Label junction box and must be read as "LIGHT SWITCH".

GENERAL NOTES:

- A. For location of electrical panelboards, see sheet EE1-1.0.
- B. For interconnection of lighting network gateway (LNG) and lighting control hubs (LCH), see sheet EE1-3.2.
- C. For lighting power plan in this area, see sheet EE1-3.8.
- D. All power pack relays, and interface dimming device must be installed inside a junction box and mounted in an open ceiling for easy maintenance unless otherwise noted.
- E. Label all power pack relays and lighting control hub with corresponding circuit number that is feeding it, and the room names, zones and numbers that is being controlled by the device. The same labels must be installed outside the junction box where it is conspicuous.
- F. All splices of line voltage conductors for power packs, and power supplies must be enclosed in junction box.
- G. Numbers of installed occupancy sensors as shown is minimum only. Install additional occupancy sensors as required to cover all areas.
- H. Label all armored lighting cables and light dimming cables the with the room names and numbers that is being served and controlled by it.
- I. Location of occupancy sensors and dimming photocells are approximate only. Mounting location must be per manufacturer recommendation.

NOTES:

- ① Install interface dimming device in junction box. Size junction box as required to fit device. Mount 12 inches below ceiling.
- ② 1/4" C, armored lighting cable.
- ③ Install armored lighting cable inside 1 1/4 inch conduit up to 10 feet high above floor.
- ④ Area is classified as Class 1, Division 1 area. All equipment and wiring methods in this area must comply with Class 1, Division 1 requirements of the California Electrical Code (CEC). During submittal process and prior to installation, submit complete lighting control installation details including but not limited to lighting network interconnection details, conduits and cables route to all equipment, conduit seal locations, and equipment location details for approval to the Engineer.
- ⑤ Calibrate dimming photocell in a way that it simulates and reacts to the daylight level as if it is mounted inside the adjacent Hazardous Material Storage Room.



KEY PLAN
 NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Dali Zhou	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

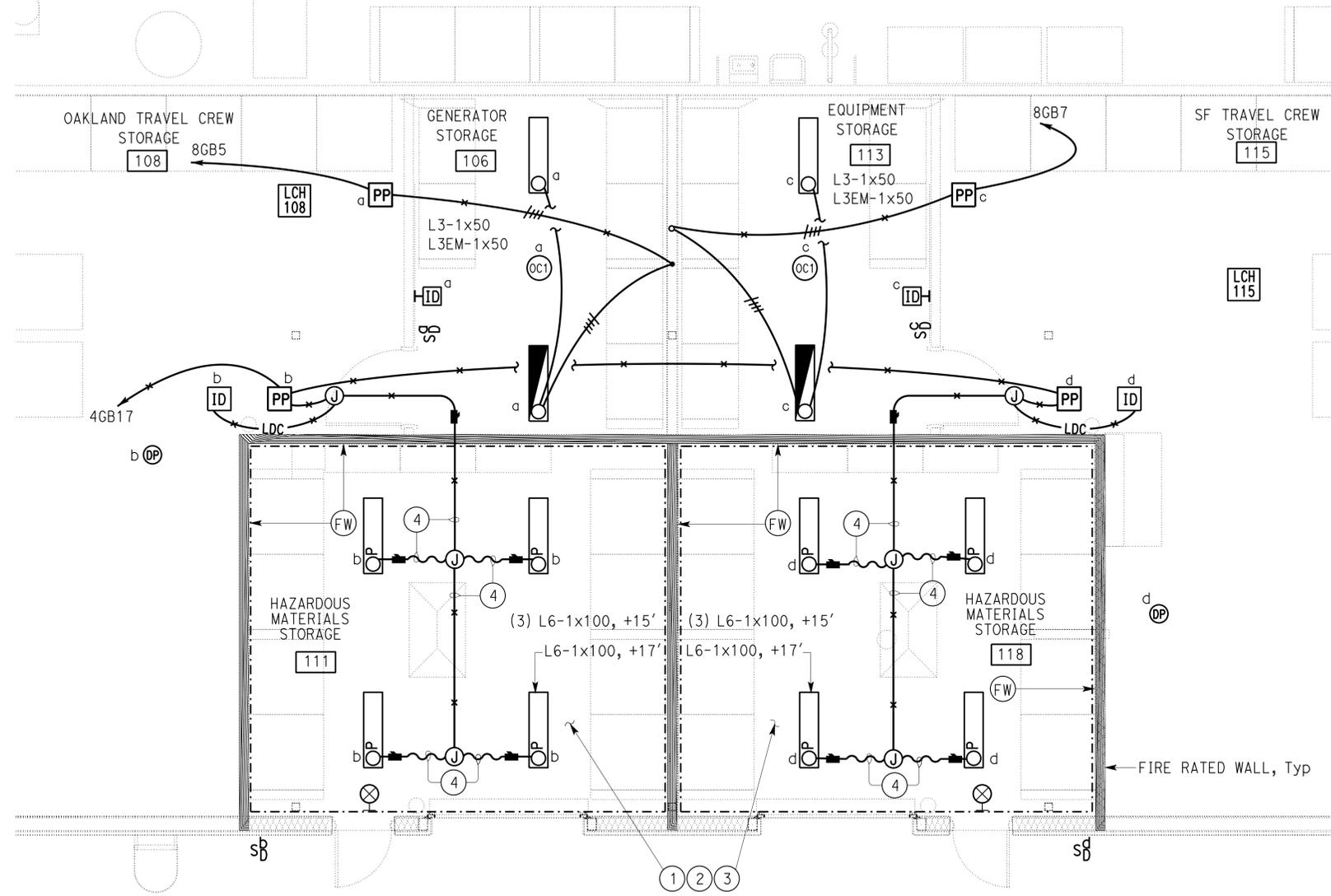
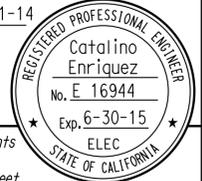
BRIDGE No.
 33M5785
 POST MILE

SFOBB WAREHOUSE
 BUILDING 1A
 LIGHTING CONTROL PLAN 3

SHEET
EE1-3.7

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: *Ingrid P. Icasiano*
 INGRID P. ICASIANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		319	371
Catalino A. Enriquez			02-21-14	REGISTERED ELECTRICAL ENGINEER DATE	
3-24-14			PLANS APPROVAL DATE		
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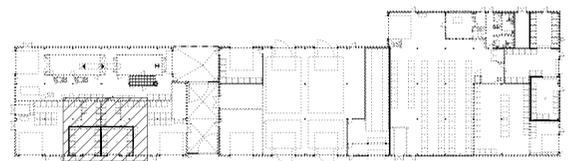
PLAN
 1/4" = 1'-0"

GENERAL NOTES:

- A. For location of electrical panelboards, see sheet EE1-1.0.
- B. For low voltage cabling and lighting control for this area, see sheet EE1-3.7.
- C. Label all power pack relays and lighting control hub with corresponding circuit number that is feeding it, and the room names, numbers and zones that is being controlled by the device. The same labels must be installed outside the junction box where it is conspicuous.
- D. All splices of line voltage conductors for power packs, and power supplies must be enclosed in junction box.
- E. Light dimming cable without armor must be used if cable will be installed inside a conduit.

NOTES:

- ① Area is classified as Class 1, Division 1 area. All equipment and wiring methods in this area must comply with Class 1, Division 1 requirements of the California Electrical Code (CEC). During submittal process and prior to installation, submit complete lighting control installation details including but not limited to lighting network interconnection details, conduits and cables route to all equipment, conduit seal locations, and equipment location details for approval to the Engineer.
- ② Use rigid steel conduit for conduit installation unless otherwise noted.
- ③ Use flexible conduit coupling rated for hazardous location to integrate lights into conduit system as shown.
- ④ 1"C, 2#12, light dimming cable, 1#12G.



KEY PLAN
 NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Dali Zhou	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 33M5785
 POST MILE

SFOBB WAREHOUSE
 BUILDING 1A
 LIGHTING POWER PLAN 3

SHEET **EE1-3.8** OF

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		320	371

Catalino A. Enriquez 02-21-14
 REGISTERED ELECTRICAL ENGINEER DATE
 3-24-14
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Catalino Enriquez
 No. E. 16944
 Exp. 6-30-15
 ELEC
 STATE OF CALIFORNIA

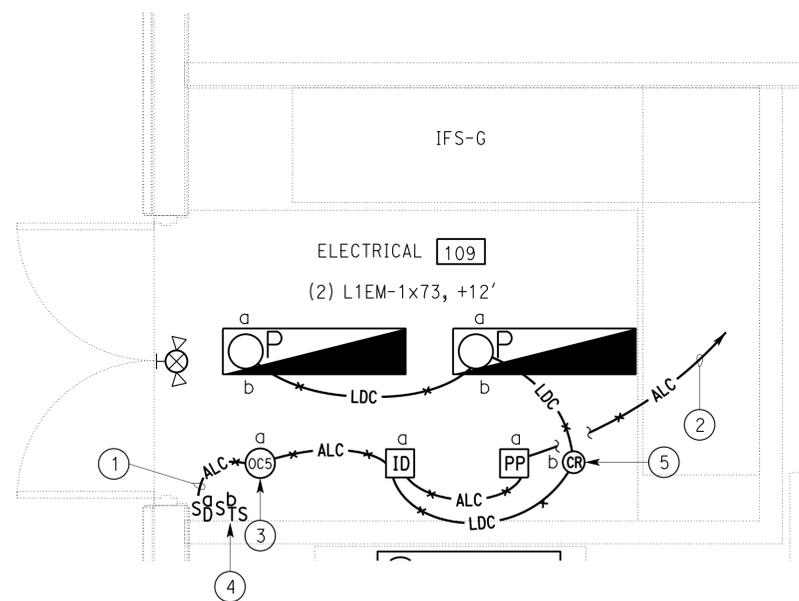
CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

GENERAL NOTES:

- A. For location of electrical panelboards, see sheet EE1-1.0.
- B. For lighting control network interconnection, see sheet EE1-3.2.
- C. All power pack relays, and interface dimming device must be installed inside a junction box and mounted in an open ceiling for easy maintenance.
- D. Label all power pack relays and lighting control hub with corresponding circuit number that is feeding it, and the room names, zones and numbers that is being controlled by the device. The same labels must be installed outside the junction box where it is conspicuous.
- E. All splices of line voltage conductors for power packs, and power supplies must be enclosed in junction box.
- F. Numbers of installed occupancy sensors as shown is minimum only. Install additional occupancy sensors as required to cover all areas.
- G. Label all armored lighting cables and light dimming cables the with the room names and numbers that is being served and controlled by it.

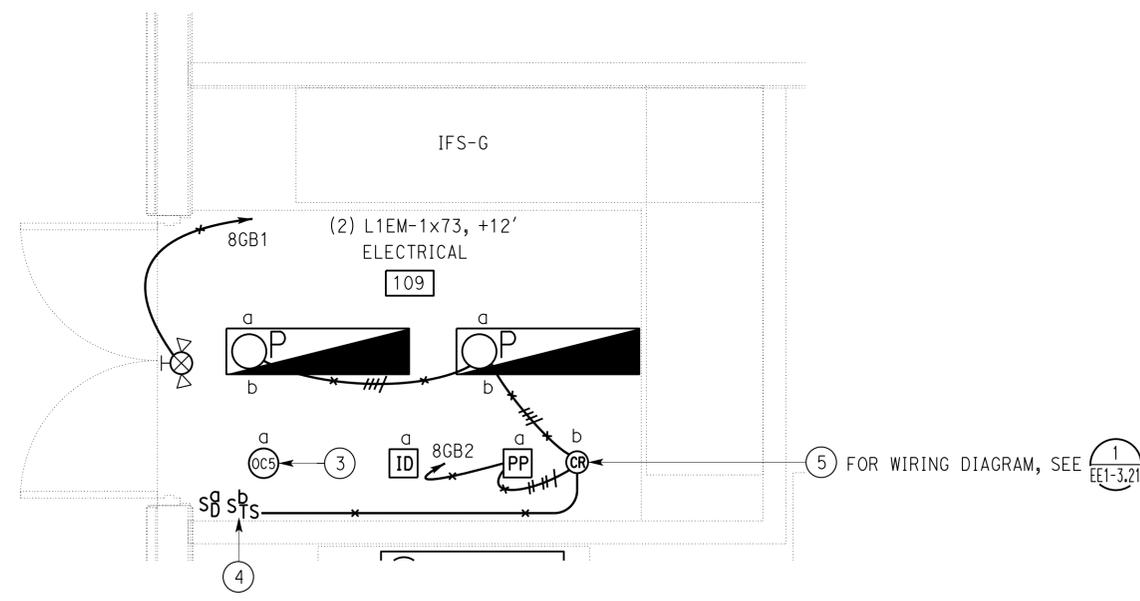
NOTES:

- ① Install armored lighting cable (ALC) inside 1-inch conduit from switch height plus 6-feet above it.
- ② To lighting network gateway unit via lighting control hub LCH-109 in IFS-G.
- ③ Location of occupancy sensor is approximate only. Mounting location must be per manufacturer recommendation.
- ④ Install timer switch in a junction box separate from low voltage devices. Install warning sign adjacent to timer switch. Warning sign must be read as "LIGHT MANUAL-ON BYPASS. NEED ACTIVATION EVERY 8 HOURS TO KEEP LIGHTS ON. ACTIVATE BYPASS SWITCH BEFORE WORKING ON ENERGIZED EQUIPMENT".
- ⑤ Install control relay in junction box. Size junction box as required to fit control relay. Label junction box exterior with circuit number and install warning sign. Warning sign must be read as "CAUTION: 277 VOLTS AC LIGHTING BYPASS RELAY".



CONTROL PLAN

1/2" = 1'-0"

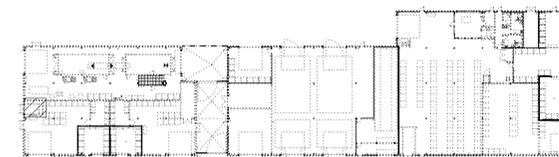


POWER PLAN

1/2" = 1'-0"



ELECTRICAL ROOM 109



KEY PLAN

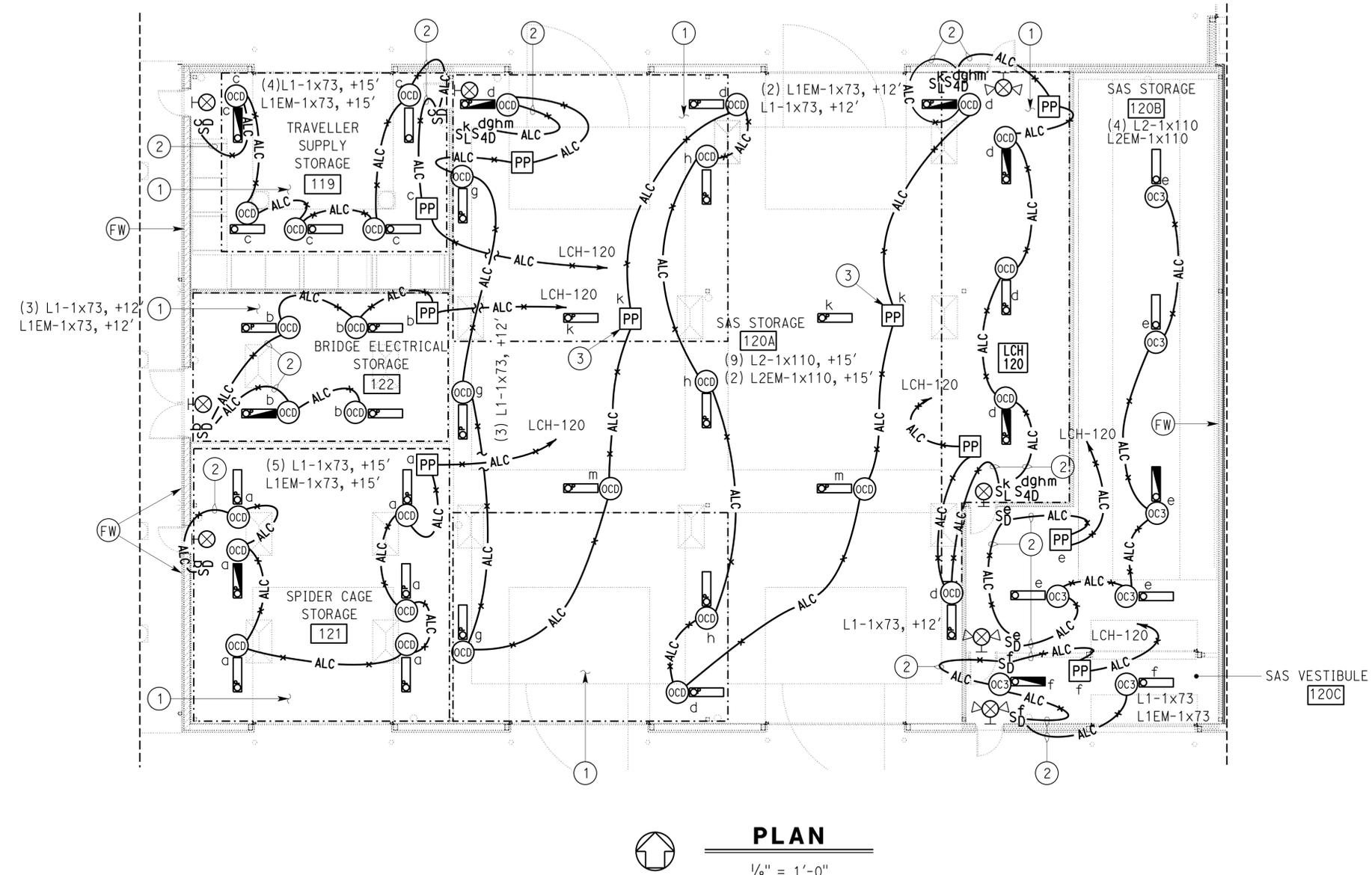
NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY	Catalino Enriquez	CHECKED	James Lacy	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	33M5785	SFOBB WAREHOUSE BUILDING 1A LIGHTING PLAN 4	SHEET EE1-3.9	
	DETAILS	BY	Dali Zhou	CHECKED			Catalino Enriquez	POST MILE			
	QUANTITIES	BY	Catalino Enriquez	CHECKED			James Lacy				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331 DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) 3-25-13 10-25-13 12-20-13 2-21-14		

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 Reviewed by: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		321	371
Catalino A. Enriquez			02-21-14	REGISTERED ELECTRICAL ENGINEER DATE	
3-24-14			PLANS APPROVAL DATE		
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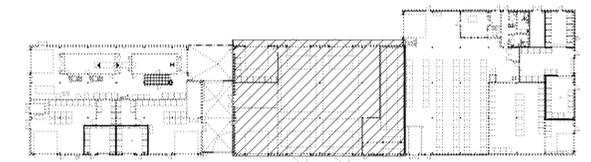
PLAN
 1/8" = 1'-0"

General Notes:

- A. For location of electrical panelboards, see sheet EE1-1.0.
- B. For lighting power plan in this area, see sheet EE1-3.11.
- C. All power pack relays, lighting control hub, and interface dimming device must be installed inside a junction box and mounted in an open ceiling for easy maintenance.
- D. Label all power pack relays and lighting control hub with corresponding circuit number that is feeding it, and the room names and numbers that is being controlled by the device. The same labels must be installed outside the junction box where it is conspicuous.
- E. All splices of line voltage conductors for power packs, and power supplies must be enclosed in junction box.
- F. Numbers of installed occupancy sensors and dimming photocell as shown is minimum only. Install additional occupancy sensors and dimming photocell as required to cover all areas.
- G. Label all armored lighting cables the with the room names and numbers that is being served and controlled by it.

Notes:

- ① Area enclosed in dashed line is Skylite Daylit Zone.
- ② Install armored lighting cable (ALC) inside 1-1/4-inch conduit from switch height plus 6-feet above it.
- ③ Power pack relay must be programmed to track and use occupancy status on all zones (zones d,g,h, and m) in the room.



KEY PLAN
 NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Dali Zhou	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

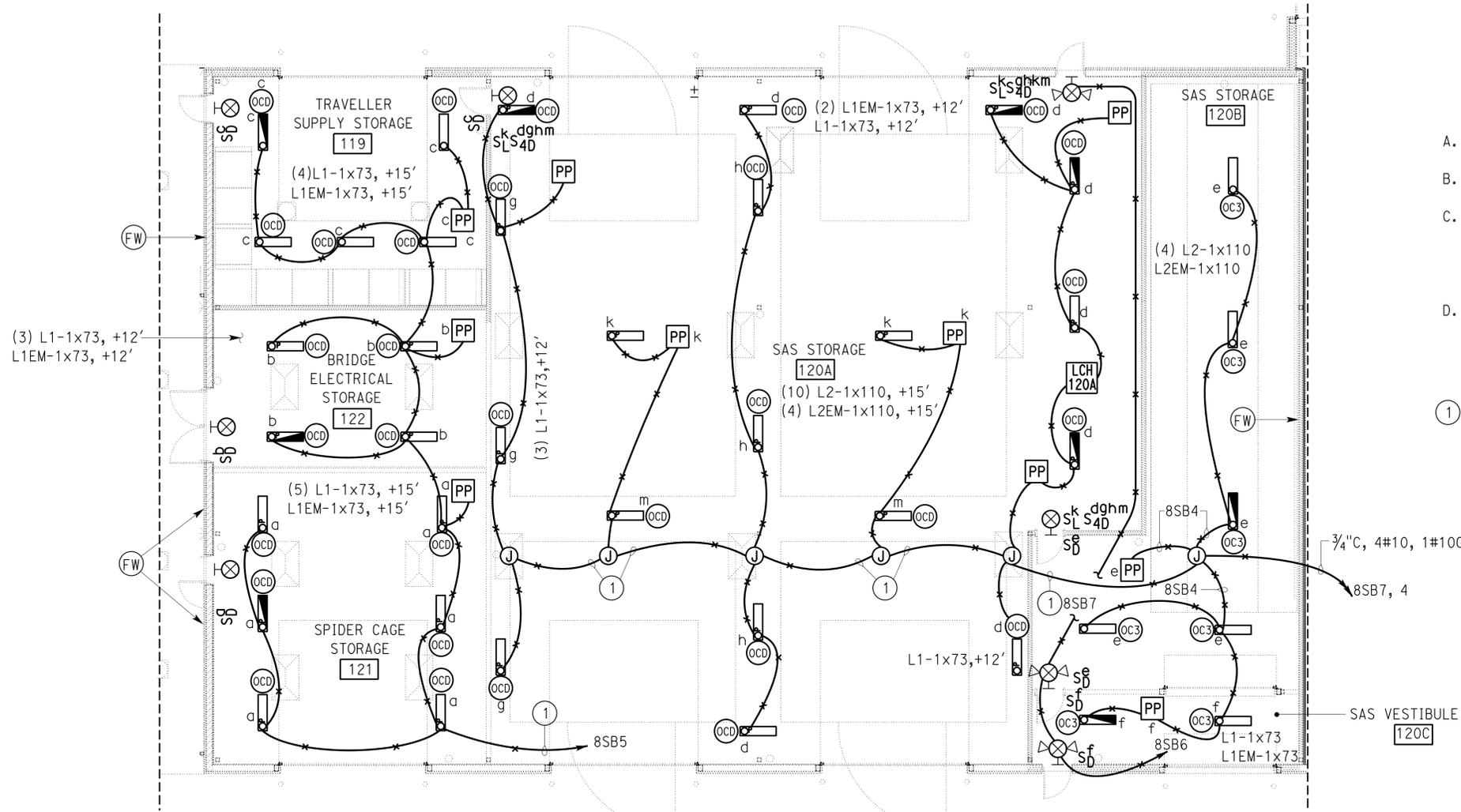
BRIDGE No. 33M5785
 POST MILE

SFOBB WAREHOUSE
 BUILDING 1B
 LIGHTING CONTROL PLAN 5

SHEET **EE1-3.10** OF

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 Reviewed by: *Ingrid P. Casiano*
 INGRID P. CASIANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		322	371
Catalino A. Enriquez			02-21-14	REGISTERED ELECTRICAL ENGINEER DATE	
3-24-14			PLANS APPROVAL DATE		
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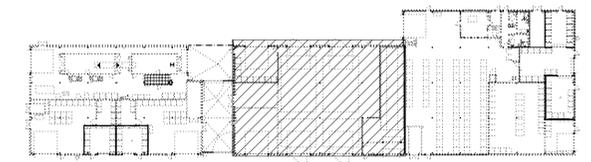
GENERAL NOTES:

- A. For location of electrical panelboards, see sheet EE1-1.0.
- B. For low voltage cabling and lighting control for this area, see sheet EE1-3.10.
- C. Label all power pack relays and lighting control hub with corresponding circuit number that is feeding it, and the room names, numbers and zones that is being controlled by the device. The same labels must be installed outside the junction box where it is conspicuous.
- D. All splices of line voltage conductors for power packs, and power supplies must be enclosed in junction box.

NOTE:

- ① 3/4" C, 2#10, 1#10G.

PLAN
 1/8" = 1'-0"



KEY PLAN

NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Dali Zhou	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

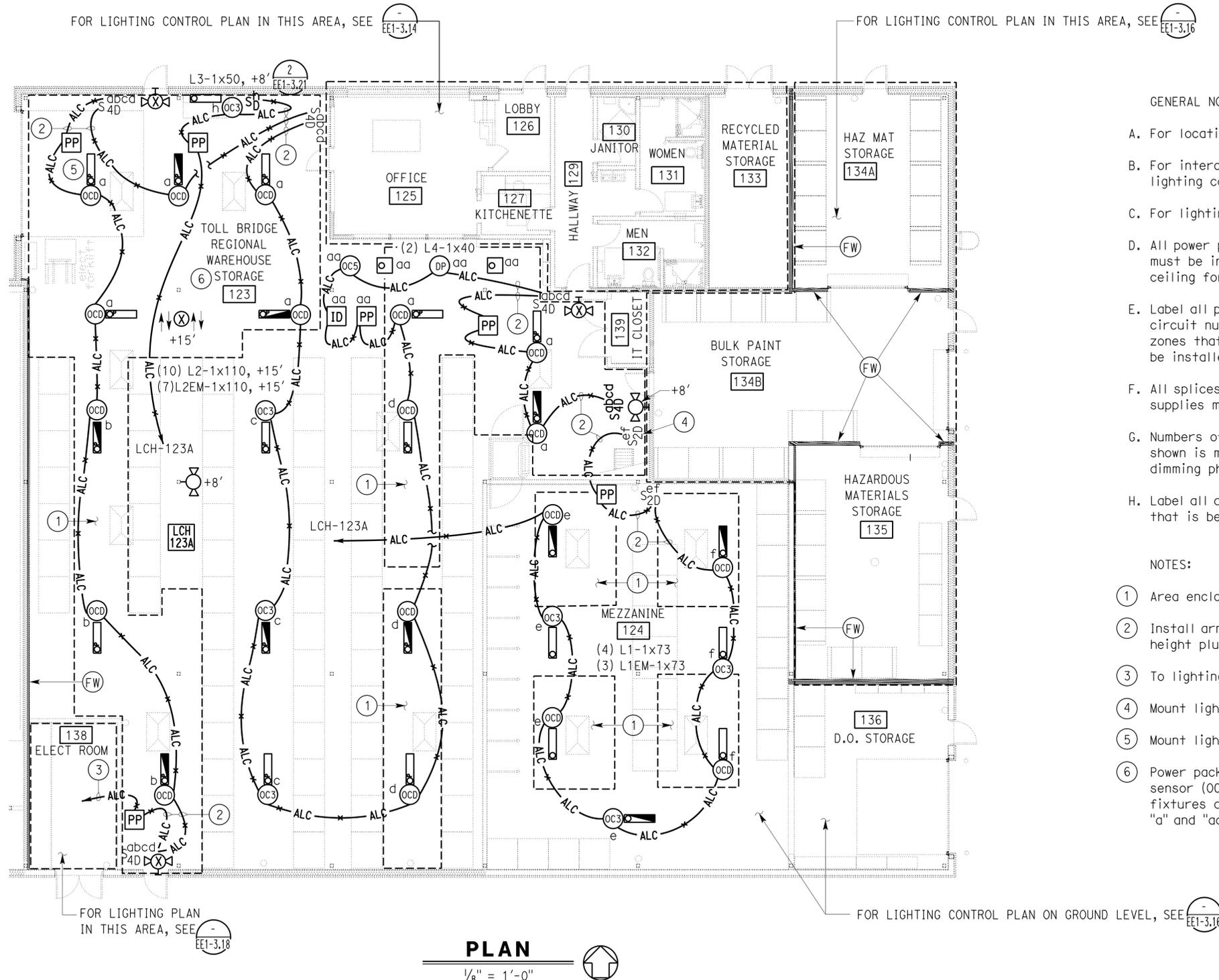
BRIDGE No. 33M5785
 POST MILE

SFOBB WAREHOUSE
 BUILDING 1B
 LIGHTING POWER PLAN 5

SHEET **EE1-3.11** OF

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 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		323	371
Catalino A. Enriquez			02-21-14	REGISTERED ELECTRICAL ENGINEER DATE	
3-24-14			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.					

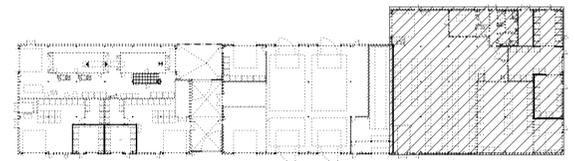


GENERAL NOTES:

- A. For location of electrical panelboards, see sheet EE1-1.0.
- B. For interconnection of lighting network gateways (LNG) and lighting control hubs (LCH), see sheet EE1-3.2.
- C. For lighting power plan in this area, see sheet EE1-3.13.
- D. All power pack relays, lighting control hub, and interface dimming device must be installed inside a junction box and mounted in an open ceiling for easy maintenance.
- E. Label all power pack relays and lighting control hub with corresponding circuit number that is feeding it, and the room names and numbers and zones that is being controlled by the device. The same labels must be installed outside the junction box where it is conspicuous.
- F. All splices of line voltage conductors for power packs, and power supplies must be enclosed in junction box.
- G. Numbers of installed occupancy sensors and dimming photocell as shown is minimum only. Install additional occupancy sensors and dimming photocell as required to cover all areas.
- H. Label all armored lighting cables the with the room names and numbers that is being served and controlled by it.

NOTES:

- ① Area enclosed in dashed line is Skylit Daylit Zone.
- ② Install armored lighting cable (ALC) inside 1/4" conduit from switch height plus 6-feet above it.
- ③ To lighting control hub in Electrical Room No.138.
- ④ Mount light switch at the bottom of the stair.
- ⑤ Mount light fixture 1 foot clear above overhead door track.
- ⑥ Power pack relay (PP), interface dimming device (ID), and occupancy sensor (OC) with "aa" designation must control only those lighting fixtures designated by "aa". All lighting fixtures designated by "a" and "aa" must be controlled by "a" dimming switch.



KEY PLAN

NO SCALE

PLAN
 1/8" = 1'-0"

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Dali Zhou	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

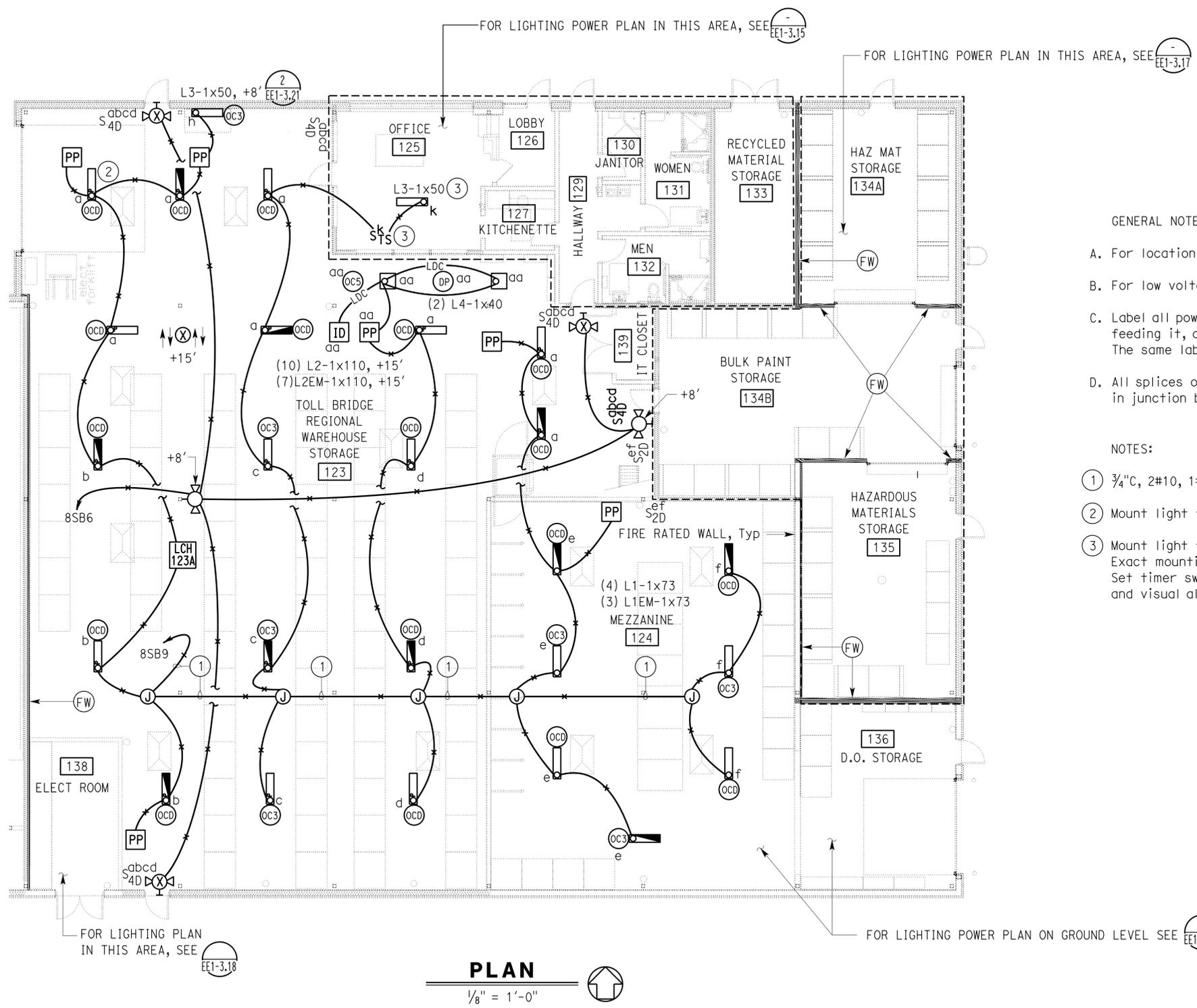
BRIDGE No. 33M5785
 POST MILE

SFOBB WAREHOUSE
 BUILDING 1B
 LIGHTING CONTROL PLAN 6

SHEET **EE1-3.12** OF

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: *Ingrid P. Casiano*
 INGRID P. CASTIANO
 Approval date: 02-11-14

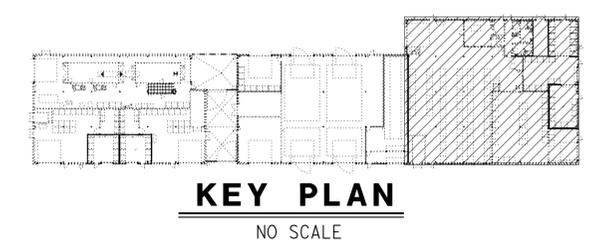
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		324	371
Catalino A. Enriquez			01-03-14	REGISTERED ELECTRICAL ENGINEER DATE	
3-24-14			PLANS APPROVAL DATE		
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- GENERAL NOTES:
- A. For location of electrical panelboards, see sheet EE1-1.0.
 - B. For low voltage cabling and lighting control for this area, see sheet EE1-3.12.
 - C. Label all power pack relays and lighting control hub with corresponding circuit number that is feeding it, and the room names, numbers and zones that is being controlled by the device. The same labels must be installed outside the junction box where it is conspicuous.
 - D. All splices of line voltage conductors for power packs, and power supplies must be enclosed in junction box.

- NOTES:
- ① 3/4" C, 2#10, 1#10G.
 - ② Mount light fixture 1 foot clear above overhead door track.
 - ③ Mount light fixture and timer switch inside the attic space above the office area. Exact mounting location of devices to be determined by the Engineer in the field. Set timer switch time delay to 30 minutes. Timer switch must have built-in audible and visual alarm before turning off lights.

PLAN
 1/8" = 1'-0"



APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Dali Zhou	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

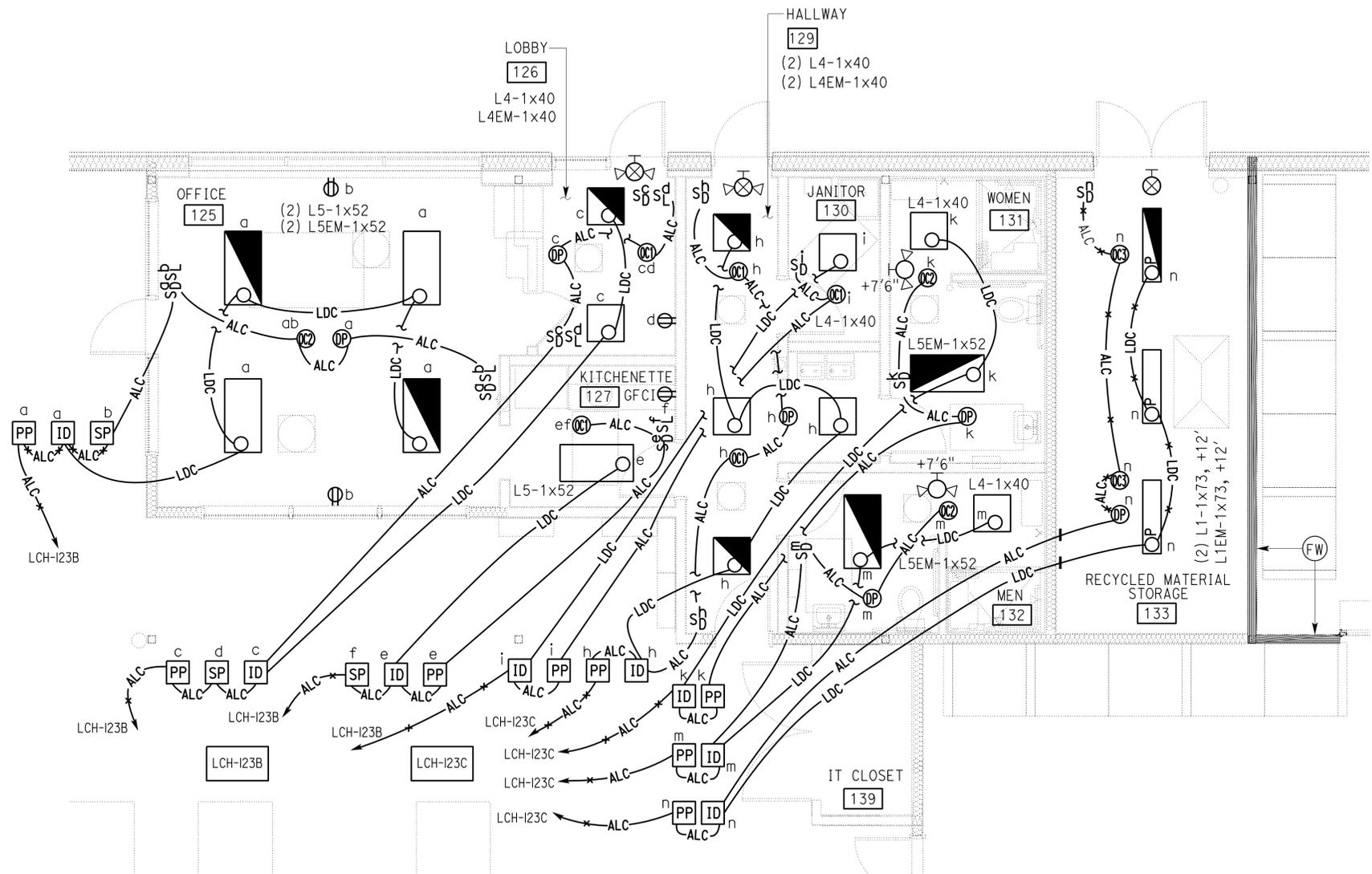
BRIDGE No. 33M5785
 POST MILE

SFOBB WAREHOUSE
 BUILDING 1B
LIGHTING POWER PLAN 6

SHEET **EE1-3.13** OF

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: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

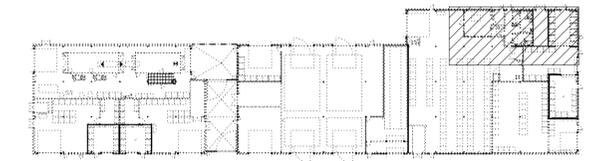
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		325	371
Catalino A. Enriquez			02-21-14	REGISTERED ELECTRICAL ENGINEER DATE	
3-24-14			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



GENERAL NOTES:

- A. For location of electrical panelboards, see sheet EE1-1.0.
- B. For interconnection of lighting network gateways (LNG) and lighting control hubs (LCH), see sheet EE1-3.2.
- C. For lighting power plan in this area, see sheet EE1-3.15.
- D. All power pack relays, lighting control hub, and interface dimming device must be installed inside a junction box and mounted in an open ceiling for easy maintenance.
- E. Label all power pack relays and lighting control hub with corresponding circuit number that is feeding it, and the room names, numbers and zones that is being controlled by the device. The same labels must be installed outside the junction box where it is conspicuous.
- F. All splices of line voltage conductors for power packs, and power supplies must be enclosed in junction box.
- G. Numbers of installed occupancy sensors and dimming photocell as shown is minimum only. Install additional occupancy sensors and dimming photocell as required to cover all areas.
- H. Label all armored lighting cables the with the room names and numbers that is being served and controlled by it.

PLAN
 1/4" = 1'-0"



KEY PLAN
 NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Dali Zhou	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

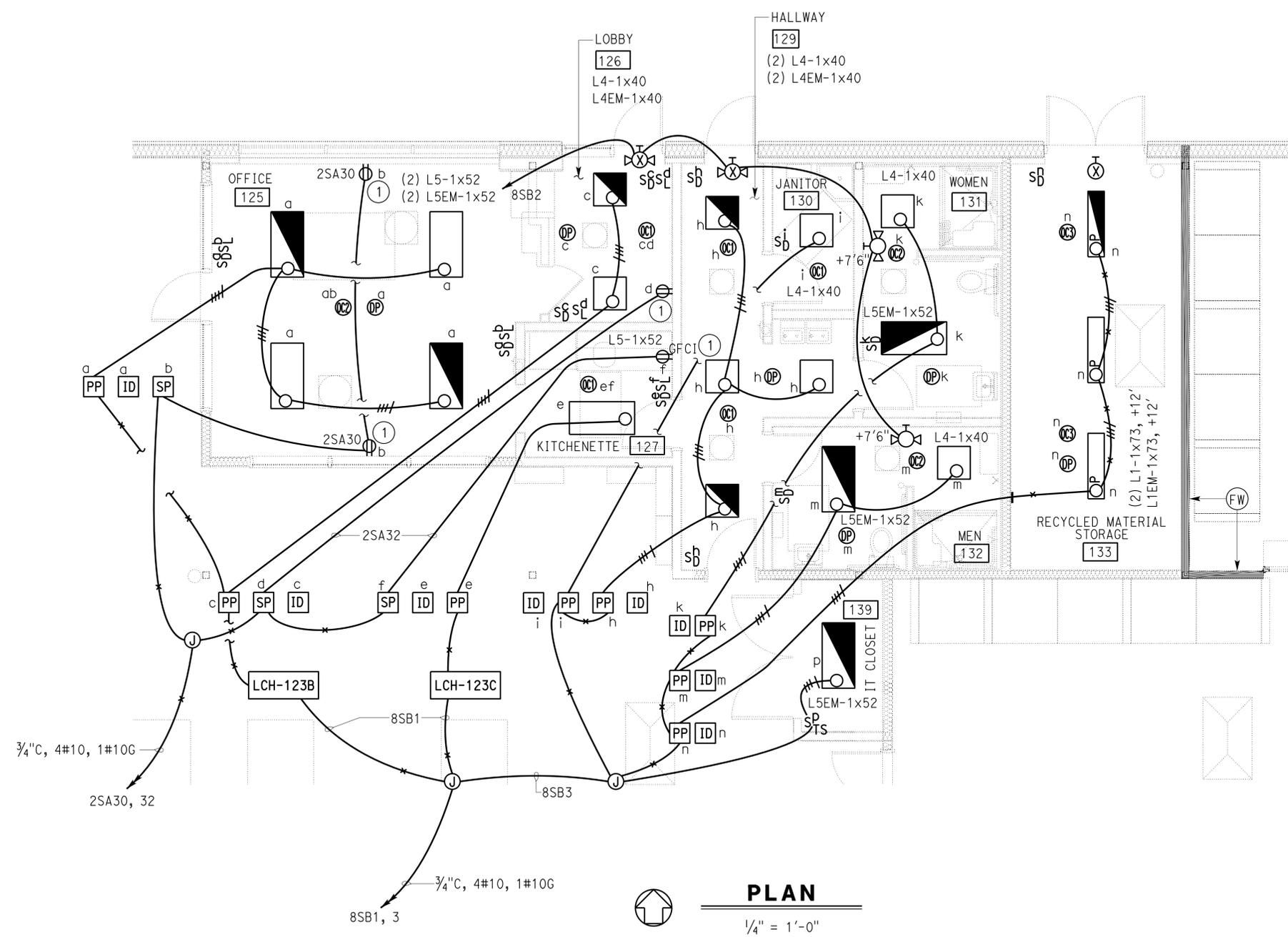
BRIDGE No. 33M5785
 POST MILE

SFOBB WAREHOUSE
 BUILDING 1B
 LIGHTING CONTROL PLAN 7

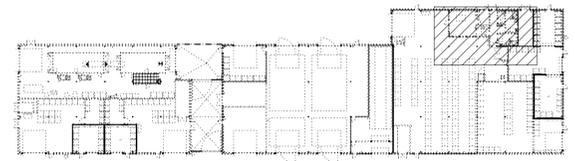
SHEET **EE1-3.14** OF

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: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		326	371
Catalino A. Enriquez			02-21-14	REGISTERED ELECTRICAL ENGINEER DATE	
3-24-14			PLANS APPROVAL DATE		
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- GENERAL NOTES:
- A. For location of electrical panelboards, see sheet EE1-1.0.
 - B. For low voltage cabling and lighting control for this area, see sheet EE1-3.14.
 - C. Label all power pack relays and lighting control hub with corresponding circuit number that is feeding it, and the room names, numbers and zones that is being controlled by the device. The same labels must be installed outside the junction box where it is conspicuous.
 - D. All power pack relays and interface dimming device must be installed in an open ceiling for easy maintenance.
 - E. All splices of line voltage conductors for power packs, and power supplies must be enclosed in junction box.
- NOTES:
- ① Receptacle controlled either by room's light occupancy sensor or wall switch via secondary power pack relay. Receptacle's wallplate must be engraved with two words "OC DP".



KEY PLAN
NO SCALE

PLAN
1/4" = 1'-0"

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Dali Zhou	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 33M5785
 POST MILE

SFOBB WAREHOUSE		SHEET EE1-3.15
BUILDING 1B	LIGHTING POWER PLAN 7	OF

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



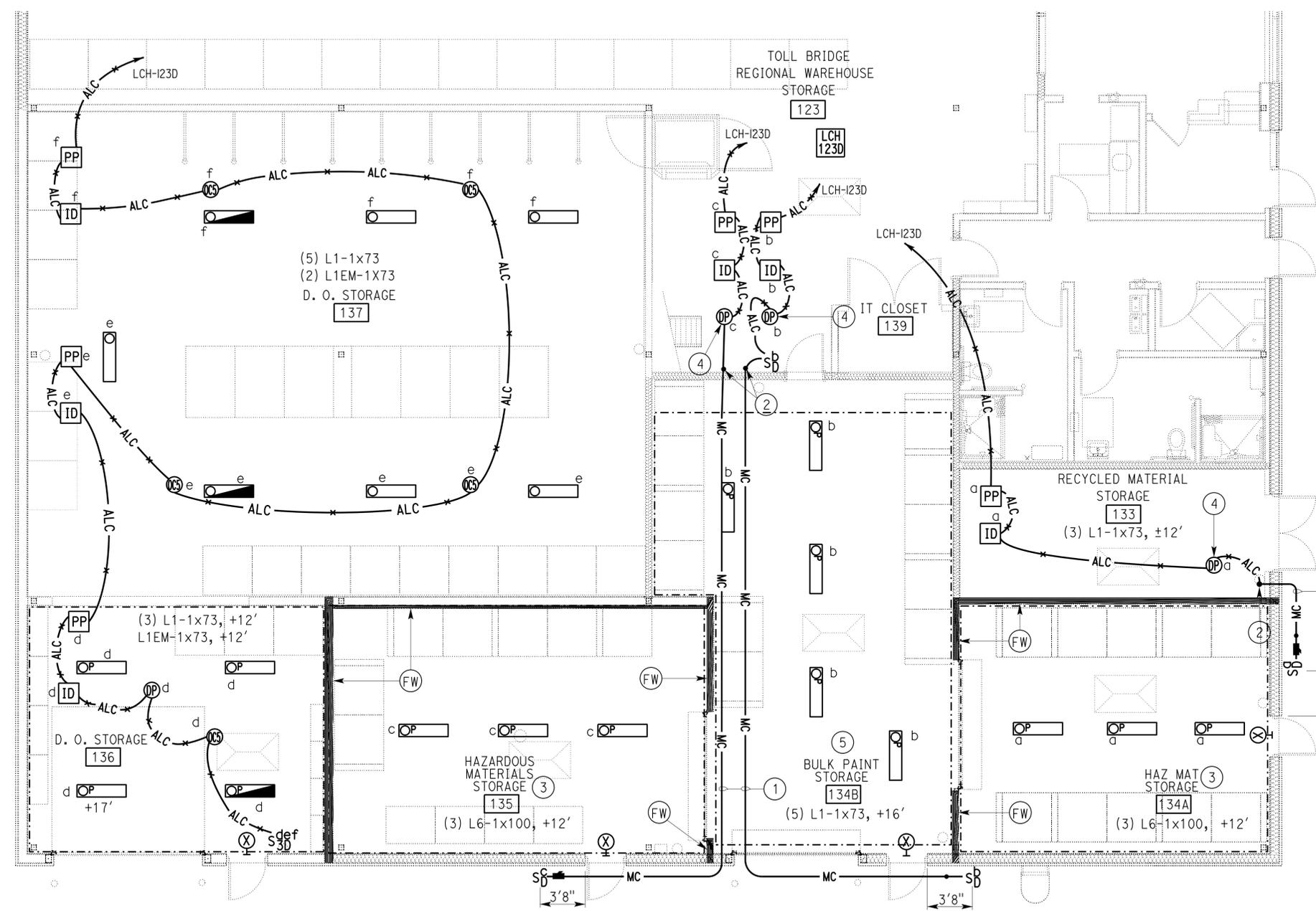
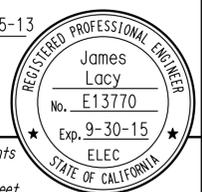
UNIT: 3597 CONTRACT No.: 014101
 PROJECT NUMBER & PHASE: 04130001331

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)			
8-30-13	10-25-13	1-7-14	2-21-14

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: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		327	371
<i>James R. Lacy</i> REGISTERED ELECTRICAL ENGINEER			10-25-13	DATE	
3-24-14			PLANS APPROVAL DATE		
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GENERAL NOTES:

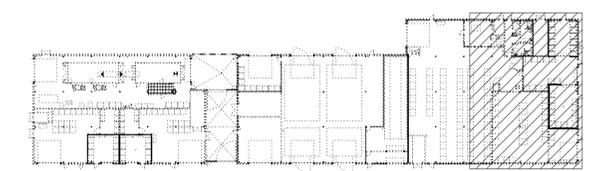
- A. For location of electrical panelboards, see sheet EE1-1.0.
- B. For interconnection of lighting network gateways (LNG) and lighting control hubs (LCH), see sheet EE1-3.2.
- C. For lighting power plan in this area, see sheet EE1-3.17.
- D. All power pack relays, lighting control hub, and interface dimming device must be installed inside a junction box and mounted in an open ceiling for easy maintenance unless otherwise noted.
- E. Label all power pack relays, lighting control hub, and interface dimming device with corresponding circuit number that is feeding it, and the room names, numbers and zones that is being controlled by the device. The same labels must be installed outside the junction box where it is conspicuous.
- F. All splices of line voltage conductors for power packs, and power supplies must be enclosed in junction box.
- G. Numbers of installed occupancy sensors as shown is minimum only. Install additional occupancy sensors as required to cover all areas.
- H. Label all armored lighting cables and light dimming cables the with the room names and numbers that is being served and controlled by it.
- I. Location of occupancy sensors and dimming photocells are approximate only. Mounting location must be per manufacturer recommendation.

NOTES:

- ① 1/4" C, armored lighting cable.
- ② Install armored lighting cable inside 1/4 inch conduit up to 10 feet high above floor.
- ③ Area is classified as Class 1, Division 1 area. All equipment and wiring methods in this area must comply with Class 1, Division 1 requirements of the California Electrical Code (CEC). During submittal process and prior to installation, submit complete lighting control installation details including but not limited to lighting network interconnection details, conduits and cables route to all equipment, conduit seal locations, and equipment location details for approval to the Engineer.
- ④ Calibrate dimming photocell in a way that it simulates and reacts to the daylight level as if it is mounted inside the Hazardous Material Storage Room or Bulk Paint Storage.

PLAN
 3/16" = 1'-0"

⑤ Areas within 3' of roll-up doors in this room are classified as Class 1, Division 2 area. All equipment and wiring methods near the doors must comply with Class 1, Division 2 requirements of the California Electrical Code (CEC). During submittal process and prior to installation, submit complete lighting control installation details including but not limited to lighting network interconnection details, conduits and cables route to all equipment, conduit seal locations, and equipment location details for approval to the Engineer.



KEY PLAN
 NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Dali Zhou	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

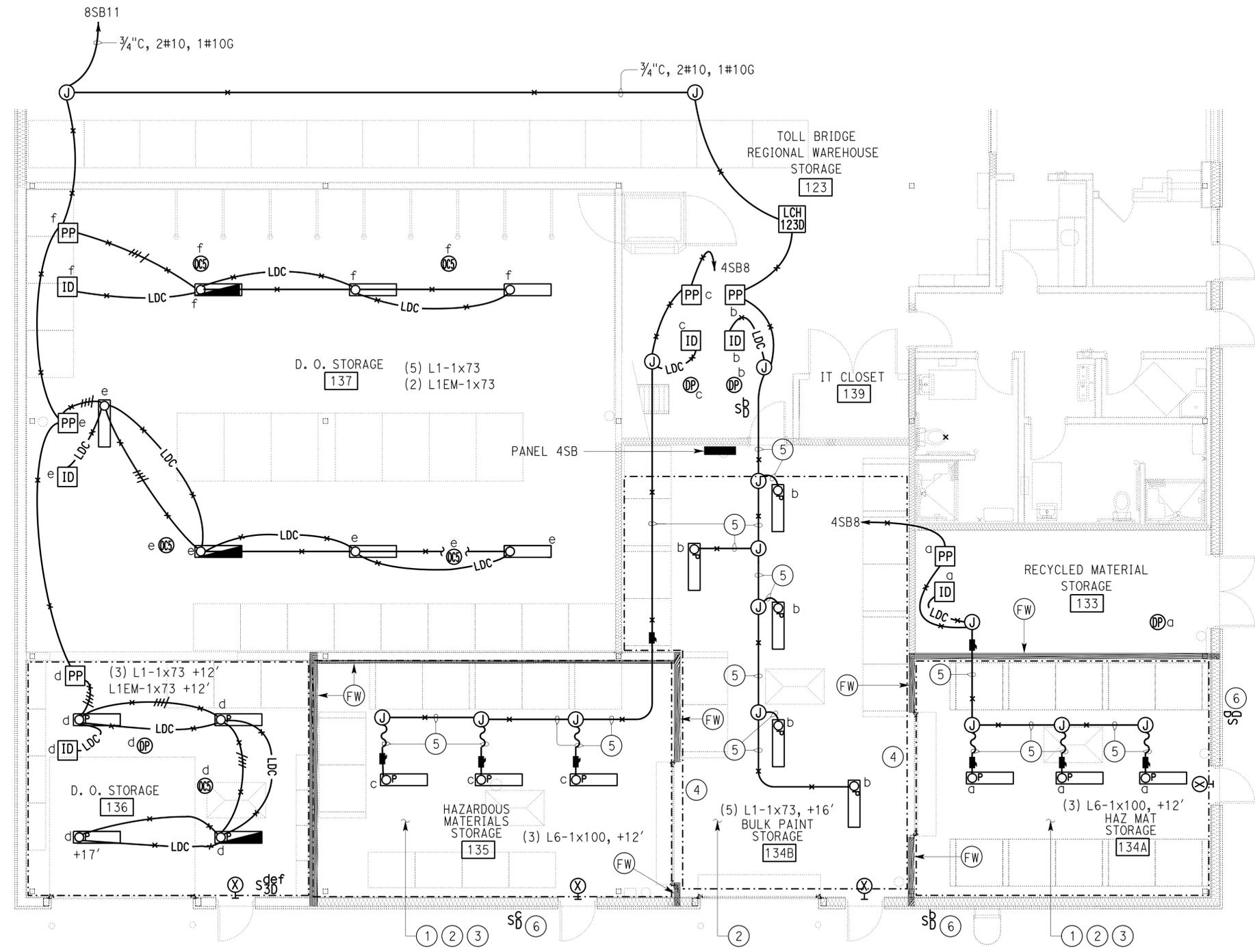
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE No.	33M5785	POST MILE	
BUILDING 1B		LIGHTING CONTROL PLAN 8	

SHEET
EE1-3.16

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: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		328	371
<i>James R. Lacy</i> REGISTERED ELECTRICAL ENGINEER			02-21-14 DATE	James Lacy No. E13770 Exp. 9-30-15 ELEC STATE OF CALIFORNIA	
3-24-14			PLANS APPROVAL DATE		
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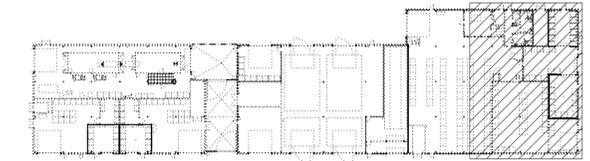
GENERAL NOTES:

- A. For location of electrical panelboards, see sheet EE1-1.0.
- B. For low voltage cabling and lighting control for this area, see sheet EE1-3.16.
- C. Label all power pack relays and lighting control hub with corresponding circuit number that is feeding it, and the room names, numbers and zones that is being controlled by the device. The same labels must be installed outside the junction box where it is conspicuous.
- D. All splices of line voltage conductors for power packs, and power supplies must be enclosed in junction box.
- E. Light dimming cable without armor must be used if cable will be installed inside a conduit.

NOTES:

- ① Area is classified as Class 1, Division 1 area. All equipment and wiring methods in this area must comply with Class 1, Division 1 requirements of the California Electrical Code (CEC). During submittal process and prior to installation, submit complete lighting control installation details including but not limited to lighting network interconnection details, conduits and cables route to all equipment, conduit seal locations, and equipment location details for approval to the Engineer.
- ② Use rigid steel conduit for conduit installation unless otherwise noted.
- ③ Use flexible conduit coupling rated for hazardous location to integrate lights into conduit system as shown.
- ④ Areas within 3' of roll-up doors in this room are classified as Class 1, Division 2 area. All equipment and wiring methods near the doors must comply with Class 1, Division 2 requirements of the California Electrical Code (CEC). During submittal process and prior to installation, submit complete lighting control installation details including but not limited to lighting network interconnection details, conduits and cables route to all equipment, conduit seal locations, and equipment location details for approval to the Engineer.
- ⑤ 1" C, 2#12, light dimming cable, 1#12G.
- ⑥ Install light switch inside a NEMA 3R junction box. Label junction box and must be read as "LIGHT SWITCH".

PLAN
 $\frac{3}{8}'' = 1'-0''$



KEY PLAN
 NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

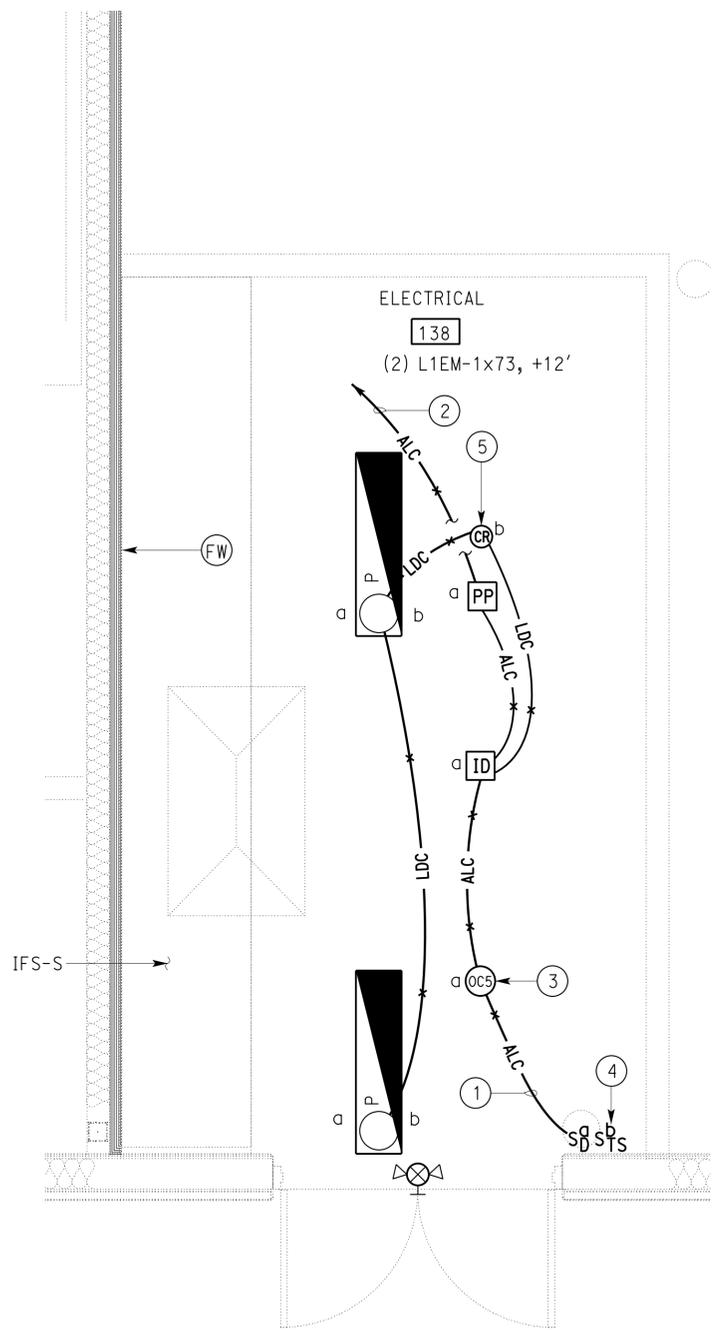
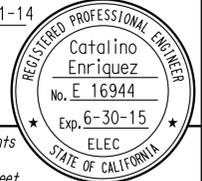
DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Dali Zhou	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

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

BRIDGE No.	33M5785	BUILDING 1B	LIGHTING POWER PLAN 8
POST MILE			
SFOBB WAREHOUSE		SHEET EE1-3.17	

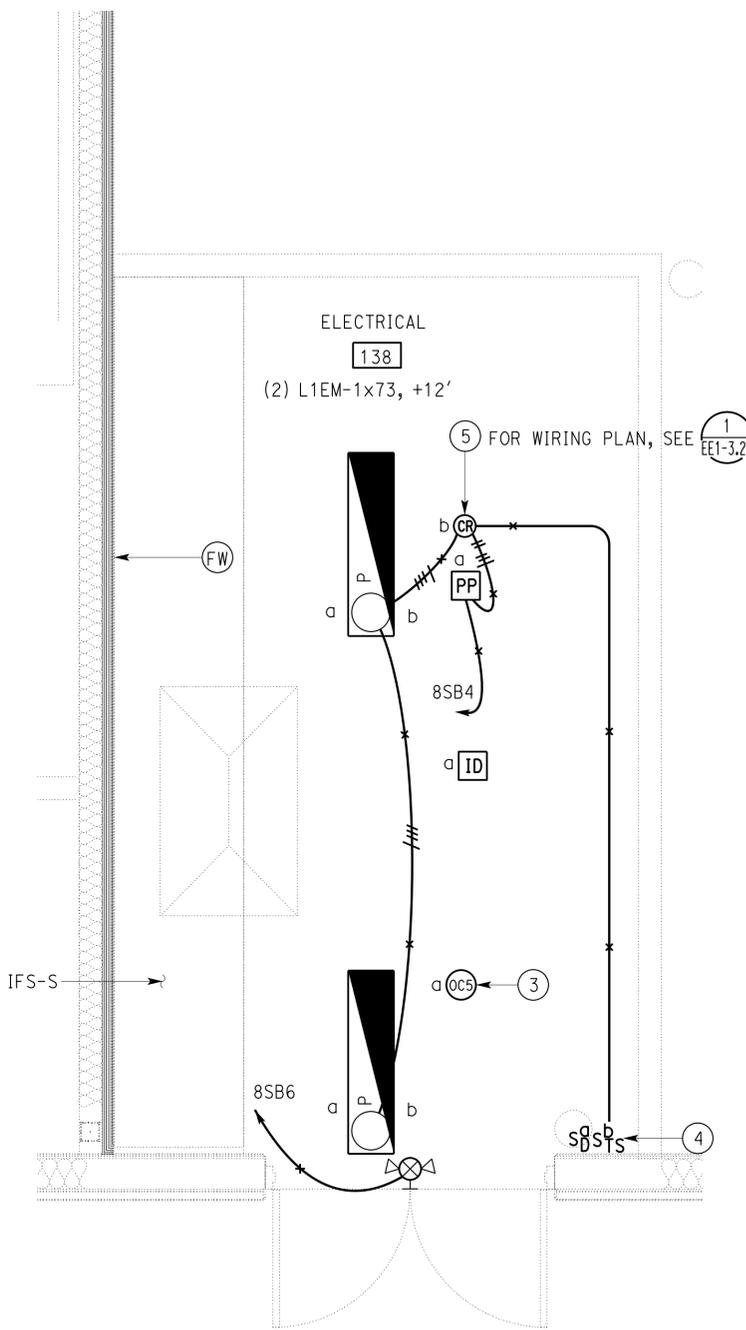
CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		329	371
Catalino A. Enriquez			02-21-14	REGISTERED ELECTRICAL ENGINEER DATE	
3-24-14			PLANS APPROVAL DATE		
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CONTROL PLAN

1/2" = 1'-0"



POWER PLAN

1/2" = 1'-0"



ELECTRICAL ROOM 138

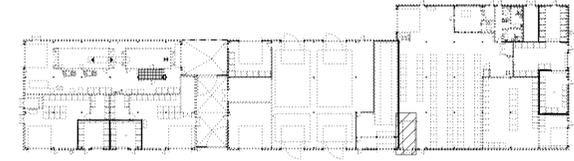
1/2" = 1'-0"

GENERAL NOTES:

- A. For location of electrical panelboards, see sheet EE1-1.0.
- B. For lighting control network interconnection, see sheet EE1-3.2.
- C. All power pack relays, and interface dimming device must be installed inside a junction box and mounted in an open ceiling for easy maintenance.
- D. Label all power pack relays and lighting control hub with corresponding circuit number that is feeding it, and the room names, zones and numbers that is being controlled by the device. The same labels must be installed outside the junction box where it is conspicuous.
- E. All splices of line voltage conductors for power packs, and power supplies must be enclosed in junction box.
- F. Numbers of installed occupancy sensors as shown is minimum only. Install additional occupancy sensors as required to cover all areas.
- G. Label all armored lighting cables and light dimming cables the with the room names and numbers that is being served and controlled by it.

NOTES:

- ① Install armored lighting cable (ALC) inside 1-inch conduit from switch height plus 6-feet above it.
- ② To lighting network gateway unit via lighting control hub LCH-138 in IFS-S.
- ③ Location of occupancy sensor is approximate only. Mounting location must be per manufacturer recommendation.
- ④ Install timer switch in a junction box separate from low voltage devices. Install warning sign adjacent to timer switch. Warning sign must be read as "LIGHT MANUAL-ON BYPASS. NEED ACTIVATION EVERY 8 HOURS TO KEEP LIGHTS ON. ACTIVATE BYPASS SWITCH BEFORE WORKING ON ENERGIZED EQUIPMENT".
- ⑤ Install control relay in junction box. Size junction box as required to fit control relay. Label junction box exterior with circuit number and install warning sign. Warning sign must be read as "CAUTION: 277 VOLTS AC LIGHTING BYPASS RELAY".



KEY PLAN

NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Dali Zhou	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 33M5785
 POST MILE

SFOBB WAREHOUSE
 BUILDING 1B
 LIGHTING PLAN 9

SHEET EE1-3.18 OF

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
8-30-13 10-25-13 1-16-14 2-21-14		

NOTES:

- ① ¾"C, 2#10, 1#10G.
- ② Armored lighting cable to lighting network gateway via lighting control hub inside IFS.
- ③ ¾"C, 3#10, 1#10G.
- ④ Timer Switch, Type 60-minute spring wound timer switch without hold function. Install timer switch inside a NEMA 4X stainless steel enclosure. Label the enclosure. Label must read as "BREEZEWAY LIGHTS BYPASS ON"
- ⑤ ¾"C, 2#10, 1#10G.
- ⑥ ¾"C, RSC, 2#10, 1#10G.
- ⑦ Mount light fixture above pedestrian door height and below soffit. See Architectural sheets.
- ⑧ Install warning plate on the enclosure. Warning plate must read as "TURN OFF CIRCUIT "X" TO DE-ENERGIZE PANEL". Letter "X" is the circuit number feeding the control panel as shown and must be clearly inscribed on the warning plate.

NOTES:

- ⑨ Area is classified as Class 1, Division 1 area. All equipment and wiring methods in this area must comply with Class 1, Division 1 requirements of the California Electrical Code (CEC). During submittal process and prior to installation, submit complete lighting control installation details including but not limited to lighting network interconnection details, conduits and cables route to all equipment, conduit seal locations, and equipment location details for approval to the Engineer.
- ⑩ Areas within 3' of roll-up doors in this room are classified as Class 1, Division 2 area. All equipment and wiring methods near the doors must comply with Class 1, Division 2 requirements of the California Electrical Code (CEC). During submittal process and prior to installation, submit complete lighting control installation details including but not limited to lighting network interconnection details, conduits and cables route to all equipment, conduit seal locations, and equipment location details for approval to the Engineer.

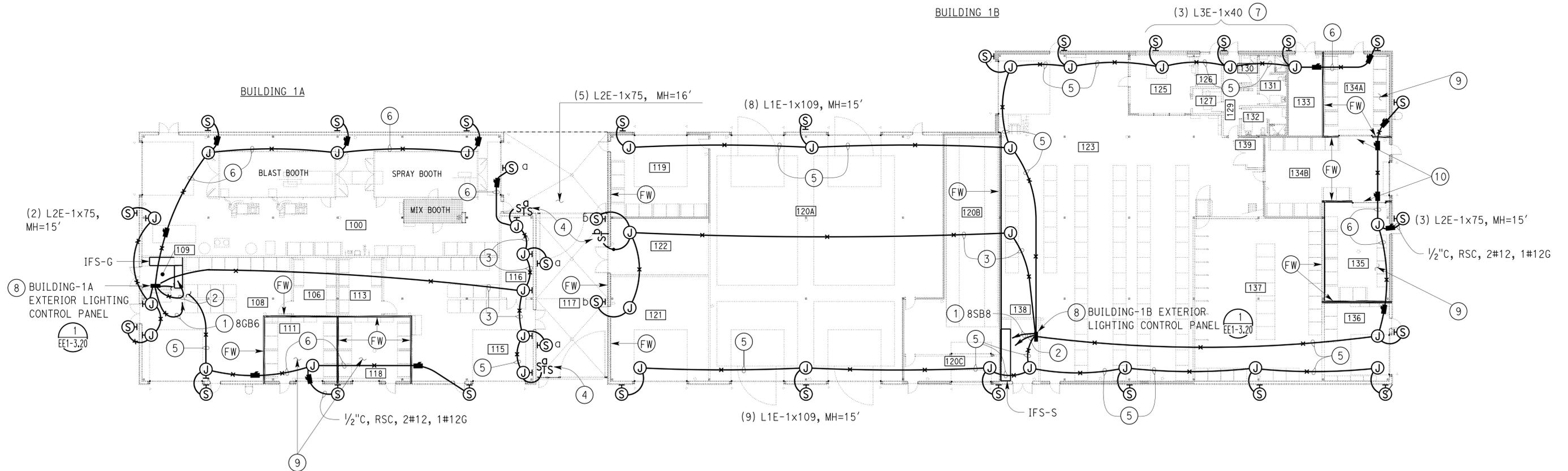
CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		330	371
Catalino A. Enriquez			02-21-14	REGISTERED ELECTRICAL ENGINEER DATE	
3-24-14			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.					



GENERAL NOTES:

- A. For location of electrical panelboards, see sheet EE1-1.0.
- B. For interconnection of Lighting Network Gateways (LNG) and Lighting Control Hubs (LCH), see sheet EE1-3.2.
- C. Label all armored lighting cables and light dimming cables with the room names, numbers and equipment that is being served or controlled by it.



PLAN

1/16" = 1'-0"

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY Catalino Enriquez CHECKED James Lacy	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785 POST MILE	SFOBB WAREHOUSE		SHEET EE1-3.19
				BUILDING EXTERIOR LIGHTING PLAN		
DETAILS BY Ed D. Tapalla 10/13 CHECKED Catalino Enriquez	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		OF
QUANTITIES BY Catalino Enriquez CHECKED James Lacy	0 1 2 3	10-8-13 10-25-13 1-11-14 2-21-14				

GENERAL NOTES:

- A. All building exterior lights must be controlled by photoelectric sensor (PES) and by an astronomical time clock of the lighting network gateway.
- B. All building exterior lights must have a motion sensor integrated with the light fixture. Light output must be dimmed to 50% minimum by the sensor when there is no motion detected.
- C. Bypass-on capability must be provided through lighting network control system.

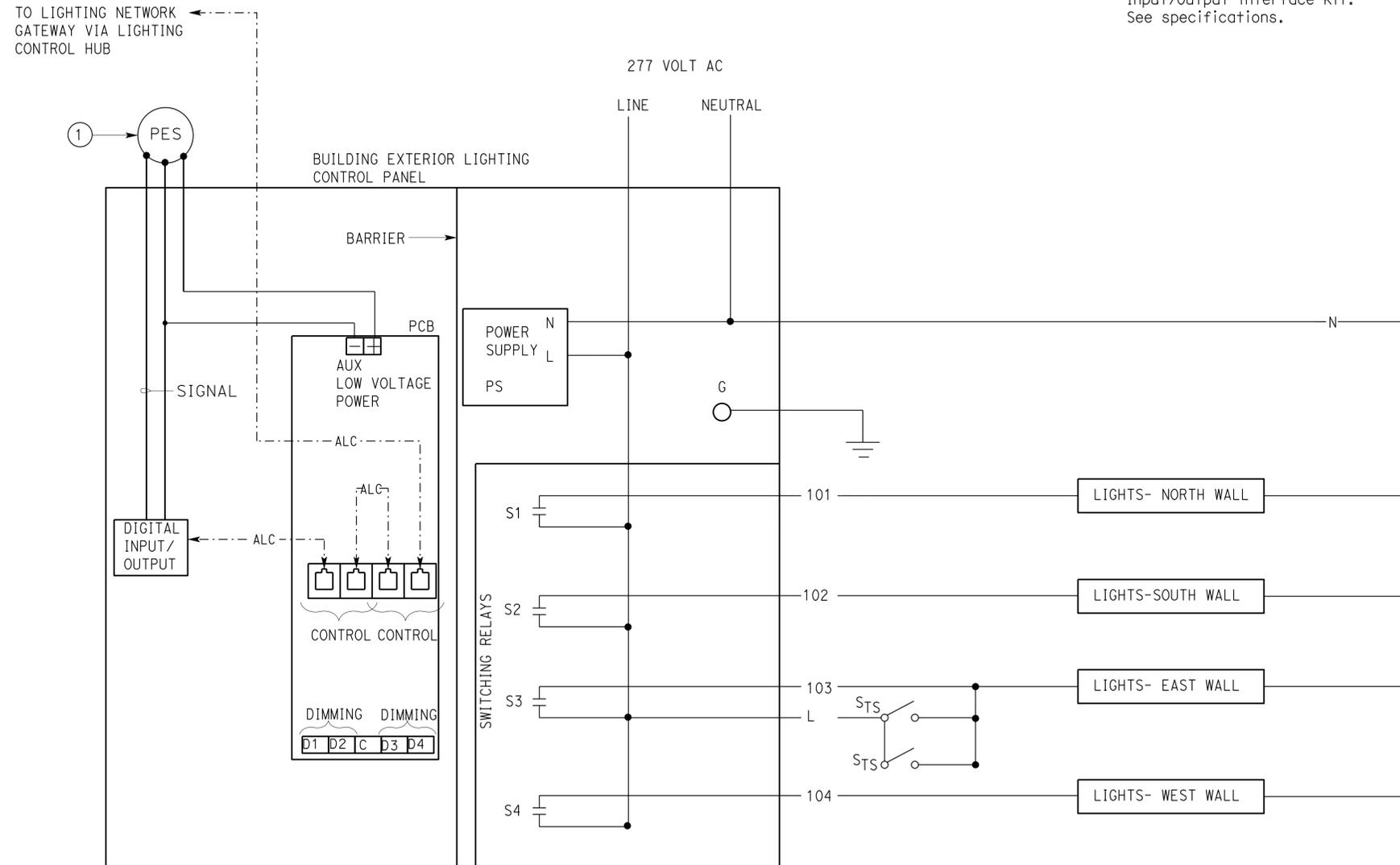
CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		331	371
Catalino A. Enriquez			02-21-14	REGISTERED ELECTRICAL ENGINEER DATE	
3-24-14			PLANS APPROVAL DATE		
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NOTES:

- ① Low voltage photoelectric sensor (PES) as part of the Digital Input/Output interface kit. See specifications.



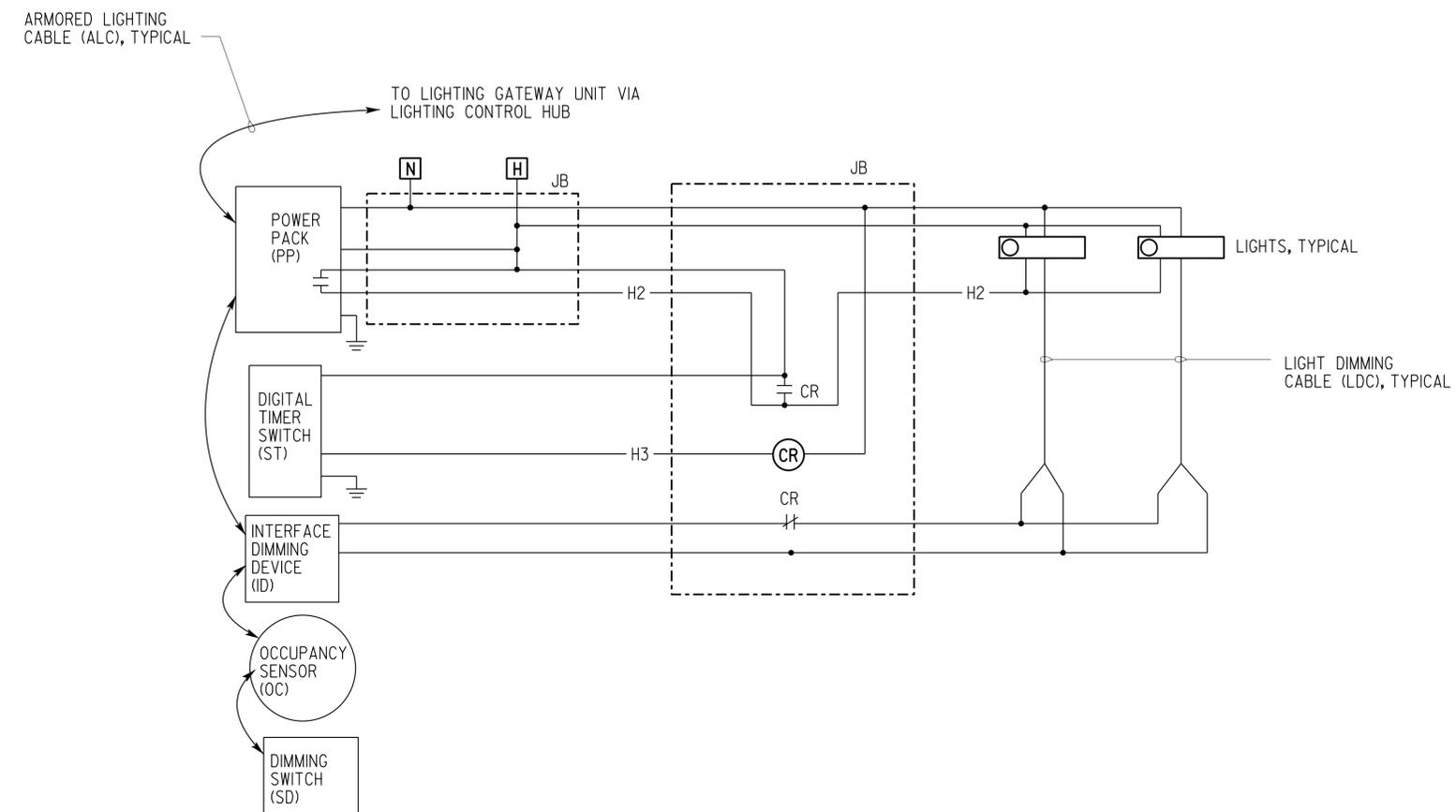
① BUILDING-1A EXTERIOR LIGHTING CONTROL PANEL WIRING DIAGRAM
 (BUILDING-1B EXTERIOR LIGHTING CONTROL PANEL WIRING IS SIMILAR EXCEPT TIMER SWITCH WILL BE ON WEST WALL LIGHTS CIRCUIT)

APPROVED FOR ELECTRICAL WORK ONLY

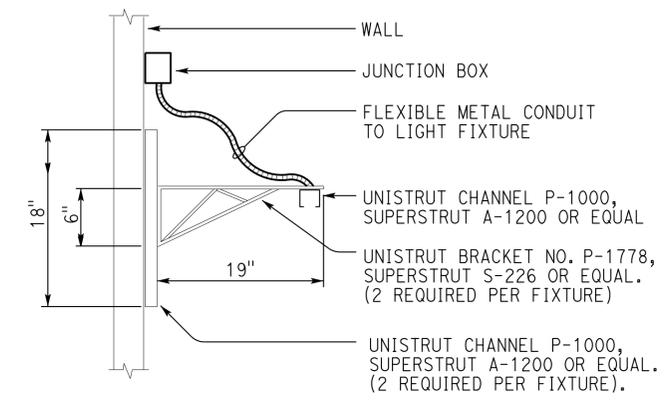
DESIGN BY Catalino Enriquez CHECKED James Lacy	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	SFOBB WAREHOUSE	SHEET EE1-3.20
			33M5785		
			POST MILE		
DETAILS BY Dali Zhou CHECKED Catalino Enriquez	Ed D. Tapalla 3/13	UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY Catalino Enriquez CHECKED James Lacy	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	10-8-13 10-25-13 2-21-14		

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 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		332	371
<i>Catalino A. Enriquez</i>		01-03-14	DATE		
REGISTERED ELECTRICAL ENGINEER					
3-24-14		PLANS APPROVAL DATE			
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1 ELECTRICAL ROOM LIGHTING BYPASS
 NO SCALE



2 FIXTURE MOUNTING DETAIL
 NO SCALE
 (FOR WALL MOUNTED WORKBENCH LIGHTS)

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DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Dali Zhou	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No.	33M5785
POST MILE	

SFOBB WAREHOUSE
 LIGHTING CONTROL SCHEMATIC 2

SHEET **EE1-3.21** OF

GENERAL NOTES:

- A. Lighting network gateways must send shut-off signal everyday to every indoor lighting control devices at 20:00 and 22:00 hour (time to be verified and adjustable in the field). At these times, every indoor lighting fixture must turn off unless the occupancy sensor at a certain room/space is active. Lighting network gateways must have automatic holiday shut-off feature and enforced during State holidays. User must be able to override and turn-on lights in certain room after working hours by activating the room's wall switch.
- B. All electrical rooms must be an exception from shut-off signal of the lighting network gateways. Lights in these rooms must not be affected by the shut-off signal for safety.
- C. Daylighting control set-point is the initial (adjustable) lighting level set-point (in foot candle, FC) for daylighting control to maintain when space or room is occupied.

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

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04	Ala	5785		333	371

Catalino A. Enriquez 01-03-14
 REGISTERED ELECTRICAL ENGINEER DATE

3-24-14
 PLANS APPROVAL DATE

Catalino Enriquez
 No. E. 16944
 Exp. 6-30-15
 ELEC
 STATE OF CALIFORNIA

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LIGHTNG CONTROL PROGRAM SCHEDULE

ROOM NUMBER	ROOM NAME	MULTI-LEVEL CONTROL	DAYLIGHTING CONTROL AND SET-POINT	SHUT-OFF CONTROL	DEMAND RESPONSIVE CONTROL	OTHER CONTROL
100	BRIDGE PAINT	AUTOMATIC AND CONTINUOUS 0-100% DIMMING LEVEL OF ALL FIXTURE PER LIGHTING ZONE BY DAYLIGHTING CONTROL. MANUAL DIMMING (0-100%) OVERRIDE PER ZONE THROUGH THE WALL SWITCH, THEN CONTROL RESET TO AUTOMATIC DIMMING AND AUTOMATIC-OFF AFTER INACTIVE OCCUPANCY SENSOR AND EXPIRATION OF TIME DELAY. LIGHT OUTPUT MUST BE AT 80% AFTER INITIAL SWITCH ACTIVATION AT NIGHT TIME.	YES/50 FC	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 30 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON THEN FULL AUTOMATIC ON/OFF BETWEEN HOURS OF 7:00 TO 18:00. MANUAL-ON THEN FULL AUTOMATIC ON/OFF BETWEEN HOURS OF 18:01 TO 6:59. TIME CLOCK PROVIDED BY LIGHTING NETWORK GATEWAY.
106	EQUIPMENT STORAGE	MANUAL 0-100% DIMMING BY WALL SWITCH. LIGHT OUTPUT MUST BE AT 70% AFTER INITIAL SWITCH ACTIVATION AT ANY TIME.	NONE	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 15 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON AND AUTOMATIC-OFF ANY TIME.
108	OAKLAND TRAVEL CREW STORAGE	AUTOMATIC AND CONTINUOUS 0-100% DIMMING LEVEL OF PER FIXTURE PER LIGHTING ZONE BY DAYLIGHTING CONTROL. MANUAL DIMMING (0-100%) OVERRIDE PER ZONE THROUGH THE WALL SWITCH, THEN CONTROL RESET TO AUTOMATIC DIMMING AND AUTOMATIC-OFF AFTER INACTIVE OCCUPANCY SENSOR AND EXPIRATION OF TIME DELAY. LIGHT OUTPUT MUST BE AT 80% AFTER INITIAL SWITCH ACTIVATION AT NIGHT TIME.	YES/25 FC	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 30 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON AND AUTOMATIC-OFF ANY TIME.
109	ELECTRICAL ROOM	MANUAL 0-100% DIMMING BY WALL SWITCH. LIGHT OUTPUT MUST BE 70% AFTER INITIAL SWITCH ACTIVATION AT ANY TIME. LIGHTS MUST BE AT 100% OUTPUT DURING BYPASS MODE BY TIMER SWITCH.	NONE	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 60 MINUTES TIME DELAY. INSTALL DIGITAL TIMER SWITCH TO HARDWIRED BYPASS OCCUPANCY SENSOR FOR 8 HOURS AT A TIME. DIGITAL TIMER SWITCH MUST HAVE BUILT-IN AUDIBLE AND VISUAL ALARM BEFORE LIGHT DEACTIVATION.	YES	NONE
111	HAZARDOUS MATERIAL STORAGE	AUTOMATIC AND CONTINUOUS 0-100% DIMMING LEVEL OF ALL FIXTURE PER LIGHTING ZONE BY DAYLIGHTING CONTROL. MANUAL DIMMING (0-100%) OVERRIDE PER ZONE THROUGH THE WALL SWITCH, THEN CONTROL RESET TO AUTOMATIC DIMMING AND AUTOMATIC-OFF AFTER EXPIRATION OF TIME DELAY. LIGHT OUTPUT MUST BE AT 80% AFTER INITIAL SWITCH ACTIVATION AT NIGHT TIME.	YES/25 FC	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF AFTER 60 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON AND AUTOMATIC-OFF ANY TIME.
113	EQUIPMENT STORAGE	MANUAL 0-100% DIMMING BY WALL SWITCH. LIGHT OUTPUT MUST BE AT 70% AFTER INITIAL SWITCH ACTIVATION AT ANY TIME.	NONE	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 15 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON AND AUTOMATIC-OFF ANY TIME.
115	SF TRAVEL CREW STORAGE	AUTOMATIC AND CONTINUOUS 0-100% DIMMING LEVEL OF PER FIXTURE PER LIGHTING ZONE BY DAYLIGHTING CONTROL. MANUAL DIMMING (0-100%) OVERRIDE PER ZONE THROUGH THE WALL SWITCH, THEN CONTROL RESET TO AUTOMATIC DIMMING AND AUTOMATIC-OFF AFTER INACTIVE OCCUPANCY SENSOR AND EXPIRATION OF TIME DELAY. LIGHT OUTPUT MUST BE AT 80% AFTER INITIAL SWITCH ACTIVATION AT NIGHT TIME.	YES/25 FC	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 30 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON AND AUTOMATIC-OFF ANY TIME.
116	CANVAS STORAGE	AUTOMATIC AND CONTINUOUS 0-100% DIMMING LEVEL OF PER FIXTURE PER LIGHTING ZONE BY DAYLIGHTING CONTROL. MANUAL DIMMING (0-100%) OVERRIDE PER ZONE THROUGH THE WALL SWITCH, THEN CONTROL RESET TO AUTOMATIC DIMMING AND AUTOMATIC-OFF AFTER INACTIVE OCCUPANCY SENSOR AND EXPIRATION OF TIME DELAY. LIGHT OUTPUT MUST BE AT 70% AFTER INITIAL SWITCH ACTIVATION AT NIGHT TIME.	YES/25 FC	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 30 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON AND AUTOMATIC-OFF ANY TIME.
118	HAZARDOUS MATERIAL STORAGE	AUTOMATIC AND CONTINUOUS 0-100% DIMMING LEVEL OF ALL FIXTURE PER LIGHTING ZONE BY DAYLIGHTING CONTROL. MANUAL DIMMING (0-100%) OVERRIDE PER ZONE THROUGH THE WALL SWITCH, THEN CONTROL RESET TO AUTOMATIC DIMMING AND AUTOMATIC-OFF AFTER EXPIRATION OF TIME DELAY. LIGHT OUTPUT MUST BE AT 80% AFTER INITIAL SWITCH ACTIVATION AT NIGHT TIME.	YES/25 FC	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF AFTER 60 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON AND AUTOMATIC-OFF ANY TIME.
119	TRAVELLER SUPPLY STORAGE	AUTOMATIC AND CONTINUOUS 0-100% DIMMING LEVEL OF PER FIXTURE PER LIGHTING ZONE BY DAYLIGHTING CONTROL. MANUAL DIMMING (0-100%) OVERRIDE PER ZONE THROUGH THE WALL SWITCH, THEN CONTROL RESET TO AUTOMATIC DIMMING AND AUTOMATIC-OFF AFTER INACTIVE OCCUPANCY SENSOR AND EXPIRATION OF TIME DELAY. LIGHT OUTPUT MUST BE AT 80% AFTER INITIAL SWITCH ACTIVATION AT NIGHT TIME..	YES/25 FC	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 15 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON AND AUTOMATIC-OFF ANY TIME.
120A	SAS STORAGE	AUTOMATIC AND CONTINUOUS 0-100% DIMMING LEVEL OF PER FIXTURE PER LIGHTING ZONE BY DAYLIGHTING CONTROL. MANUAL DIMMING (0-100%) OVERRIDE PER ZONE THROUGH THE WALL SWITCH, THEN CONTROL RESET TO AUTOMATIC DIMMING AND AUTOMATIC-OFF AFTER INACTIVE OCCUPANCY SENSOR AND EXPIRATION OF TIME DELAY. LIGHT OUTPUT MUST BE AT 80% AFTER INITIAL SWITCH ACTIVATION AT NIGHT TIME.	YES/25 FC	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 30 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON THEN FULL AUTOMATIC ON/OFF BETWEEN HOURS OF 7:00 TO 18:00. MANUAL-ON THEN FULL AUTOMATIC ON/OFF BETWEEN HOURS OF 18:01 TO 6:59. TIME CLOCK PROVIDED BY LIGHTING NETWORK GATEWAY.
120B	SAS STORAGE	MANUAL 0-100% DIMMING BY WALL SWITCH. LIGHT OUTPUT MUST BE AT 70% AFTER INITIAL SWITCH ACTIVATION AT ANY TIME.	NONE	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 15 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON AND AUTOMATIC-OFF ANY TIME.
120C	SAS VESTIBULE	MANUAL 0-100% DIMMING BY WALL SWITCH. LIGHT OUTPUT MUST BE AT 70% AFTER INITIAL SWITCH ACTIVATION AT ANY TIME.	NONE	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 15 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON AND AUTOMATIC-OFF ANY TIME.

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Dali Zhou	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No.	33M5785
POST MILE	

SFOBB WAREHOUSE
 CONTROL PROGRAM SCHEDULE 1

SHEET EE1-3.22

GENERAL NOTES:

- A. Lighting network gateways must send shut-off signal everyday to every indoor lighting control devices at 20:00 and 22:00 hour (time to be verified in and adjustable the field). At these times, every indoor lighting fixture must turn off unless the occupancy sensor at a certain room/space is active. Lighting network gateways must have automatic holiday shut-off feature and enforced during State holidays. User must be able to override and turn-on lights in certain room after working hours by activating the room's wall switch.
- B. All electrical rooms must be an exception from shut-off signal of the lighting network gateways. Lights in these rooms must not be affected by the shut-off signal for safety.
- C. Daylighting control set-point is the initial (adjustable) lighting level set-point (in foot candle, FC) for daylighting control to maintain when space or room is occupied.

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 Reviewed by: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		334	371

Catalino A. Enriquez 01-03-14
 REGISTERED ELECTRICAL ENGINEER DATE

3-24-14
 PLANS APPROVAL DATE

Catalino Enriquez
 No. E. 16944
 Exp. 6-30-15
 ELEC
 STATE OF CALIFORNIA

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LIGHTNG CONTROL PROGRAM SCHEDULE

ROOM NUMBER	ROOM NAME	MULTI-LEVEL CONTROL	DAYLIGHTING CONTROL AND SET-POINT	SHUT-OFF CONTROL	DEMAND RESPONSIVE CONTROL	OTHER CONTROL
121	SPIDER CAGE STORAGE	AUTOMATIC AND CONTINUOUS 0-100% DIMMING LEVEL OF PER FIXTURE PER LIGHTING ZONE BY DAYLIGHTING CONTROL. MANUAL DIMMING (0-100%) OVERRIDE PER ZONE THROUGH THE WALL SWITCH, THEN CONTROL RESET TO AUTOMATIC DIMMING AND AUTOMATIC-OFF AFTER INACTIVE OCCUPANCY SENSOR AND EXPIRATION OF TIME DELAY. LIGHT OUTPUT MUST BE AT 70% AFTER INITIAL SWITCH ACTIVATION AT NIGHT TIME.	YES/25 FC	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 15 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON AND AUTOMATIC-OFF ANY TIME.
122	BRIDGE ELECTRICAL STORAGE	AUTOMATIC AND CONTINUOUS 0-100% DIMMING LEVEL OF PER FIXTURE PER LIGHTING ZONE BY DAYLIGHTING CONTROL. MANUAL DIMMING (0-100%) OVERRIDE PER ZONE THROUGH THE WALL SWITCH, THEN CONTROL RESET TO AUTOMATIC DIMMING AND AUTOMATIC-OFF AFTER INACTIVE OCCUPANCY SENSOR AND EXPIRATION OF TIME DELAY. LIGHT OUTPUT MUST BE AT 70% AFTER INITIAL SWITCH ACTIVATION AT NIGHT TIME.	YES/25 FC	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 15 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON AND AUTOMATIC-OFF ANY TIME.
123	TOLL BRIDGE REGIONAL WAREHOUSE STORAGE	AUTOMATIC AND CONTINUOUS 0-100% DIMMING LEVEL OF PER FIXTURE PER LIGHTING ZONE BY DAYLIGHTING CONTROL. MANUAL DIMMING (0-100%) OVERRIDE PER ZONE THROUGH THE WALL SWITCH, THEN CONTROL RESET TO AUTOMATIC DIMMING AND AUTOMATIC-OFF AFTER INACTIVE OCCUPANCY SENSOR AND EXPIRATION OF TIME DELAY. LIGHT OUTPUT MUST BE AT 80% AFTER INITIAL SWITCH ACTIVATION AT NIGHT TIME.	YES/25 FC	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 30 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON THEN FULL AUTOMATIC ON/OFF BETWEEN HOURS OF 7:00 TO 18:00. MANUAL-ON THEN FULL AUTOMATIC ON/OFF BETWEEN HOURS OF 18:01 TO 6:59. TIME CLOCK PROVIDED BY LIGHTING NETWORK GATEWAY.
124	MEZZANINE STORAGE	AUTOMATIC AND CONTINUOUS 0-100% DIMMING LEVEL OF PER FIXTURE PER LIGHTING ZONE BY DAYLIGHTING CONTROL. MANUAL DIMMING (0-100%) OVERRIDE PER ZONE THROUGH THE WALL SWITCH, THEN CONTROL RESET TO AUTOMATIC DIMMING AND AUTOMATIC-OFF AFTER INACTIVE OCCUPANCY SENSOR AND EXPIRATION OF TIME DELAY. LIGHT OUTPUT MUST BE AT 70% AFTER INITIAL SWITCH ACTIVATION AT NIGHT TIME.	YES/25 FC	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 30 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON THEN FULL AUTOMATIC ON/OFF BETWEEN HOURS OF 7:00 TO 18:00. MANUAL-ON THEN FULL AUTOMATIC ON/OFF BETWEEN HOURS OF 18:01 TO 6:59. TIME CLOCK PROVIDED BY LIGHTING NETWORK GATEWAY.
125	OFFICE	AUTOMATIC AND CONTINUOUS 0-100% DIMMING LEVEL OF ALL FIXTURE PER LIGHTING ZONE BY DAYLIGHTING CONTROL. MANUAL DIMMING (0-100%) OVERRIDE PER ZONE THROUGH THE WALL SWITCH, THEN CONTROL RESET TO AUTOMATIC DIMMING AND AUTOMATIC-OFF AFTER INACTIVE OCCUPANCY SENSOR AND EXPIRATION OF TIME DELAY. LIGHT OUTPUT MUST BE AT 80% AFTER INITIAL SWITCH ACTIVATION AT NIGHT TIME.	YES/40 FC	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 15 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON AND AUTOMATIC-OFF ANY TIME. SOME DUPLEX RECEPTACLES THROUGH SECONDARY POWER PACK RELAY CONTROLLED BY OCCUPANCY SENSOR AND WALL SWITCH.
126	LOBBY	AUTOMATIC AND CONTINUOUS 0-100% DIMMING LEVEL OF ALL FIXTURE PER LIGHTING ZONE BY DAYLIGHTING CONTROL. MANUAL DIMMING (0-100%) OVERRIDE PER ZONE THROUGH THE WALL SWITCH, THEN CONTROL RESET TO AUTOMATIC DIMMING AFTER INACTIVE OCCUPANCY SENSOR AND EXPIRATION OF TIME DELAY. AT LOW AMBIENT LIGHT, FIXTURE OUTPUT MUST BE AT 50% WHEN OCCUPANCY SENSOR IS INACTIVE AND 90% WHEN ACTIVE.	YES/30 FC	MANUAL-ON OR OFF BY WALL SWITCH. LIGHTS, AND OCCUPANCY SENSOR/SWITCH CONTROLLED DUPLEX RECEPTACLE TO TURN OFF WHEN OFF-SIGNAL RECEIVED FROM LIGHTING NETWORK GATEWAY. AT LOW AMBIENT LIGHT, AUTOMATIC DIMMING INITIATED BY INACTIVE OCCUPANCY SENSOR AFTER 10 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON THEN FULL AUTOMATIC ON/DIMMING BETWEEN HOURS OF 5:00 TO 20:00. MANUAL-ON THEN FULL AUTOMATIC ON/DIMMING BETWEEN HOURS OF 20:01 TO 4:59. DUPLEX RECEPTACLE THROUGH SECONDARY POWER PACK RELAY CONTROLLED BY OCCUPANCY SENSOR AND WALL SWITCH. TIME CLOCK PROVIDED BY LIGHTING NETWORK GATEWAY. LIGHTS, AND OCCUPANCY SENSOR/SWITCH CONTROLLED DUPLEX RECEPTACLE TO TURN OFF WHEN OFF-SIGNAL RECEIVED FROM LIGHTING NETWORK GATEWAY.
127	KITCHENETTE	MANUAL 0-100% DIMMING BY WALL SWITCH. LIGHT OUTPUT MUST BE AT 80% AFTER INITIAL SWITCH ACTIVATION AT ANY TIME.	NONE	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 10 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON AND AUTOMATIC-OFF ANY TIME. DUPLEX RECEPTACLE THROUGH SECONDARY POWER PACK RELAY CONTROLLED BY OCCUPANCY SENSOR AND WALL SWITCH.
129	HALLWAY	AUTOMATIC AND CONTINUOUS 0-100% DIMMING LEVEL OF ALL FIXTURE PER LIGHTING ZONE BY DAYLIGHTING CONTROL. MANUAL DIMMING (0-100%) OVERRIDE PER ZONE THROUGH THE WALL SWITCH, THEN CONTROL RESET TO AUTOMATIC DIMMING AFTER INACTIVE OCCUPANCY SENSOR AND EXPIRATION OF TIME DELAY. AT LOW AMBIENT LIGHT, FIXTURE OUTPUT MUST BE AT 50% WHEN OCCUPANCY SENSOR IS INACTIVE AND 90% WHEN ACTIVE.	YES/30 FC	MANUAL-ON OR OFF BY WALL SWITCH. LIGHTS TO TURN OFF WHEN OFF-SIGNAL RECEIVED FROM LIGHTING NETWORK GATEWAY. AT LOW AMBIENT LIGHT, AUTOMATIC DIMMING INITIATED BY INACTIVE OCCUPANCY SENSOR AFTER 10 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON THEN FULL AUTOMATIC ON/DIMMING BETWEEN HOURS OF 5:00 TO 20:00. MANUAL-ON THEN FULL AUTOMATIC ON/DIMMING BETWEEN HOURS OF 20:01 TO 4:59. TIME CLOCK PROVIDED BY LIGHTING NETWORK GATEWAY. LIGHTS TO TURN OFF WHEN OFF-SIGNAL RECEIVED FROM LIGHTING NETWORK GATEWAY.
130	JANITOR	MANUAL 0-100% DIMMING BY WALL SWITCH. LIGHT OUTPUT MUST BE AT 70% AFTER INITIAL SWITCH ACTIVATION AT ANY TIME.	NONE	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 10 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON AND AUTOMATIC-OFF ANY TIME.

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Dali Zhou	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 33M5785
 POST MILE

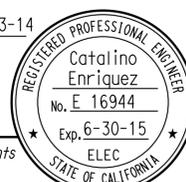
SFOBB WAREHOUSE
 CONTROL PROGRAM SCHEDULE 2

SHEET EE1-3.23

GENERAL NOTES:

- A. Lighting network gateways must send shut-off signal everyday to every indoor lighting control devices at 20:00 and 22:00 hour (time to be verified in and adjustable the field). At these times, every indoor lighting fixture must turn off unless the occupancy sensor at a certain room/space is active. Lighting network gateways must have automatic holiday shut-off feature and enforced during State holidays. User must be able to override and turn-on lights in certain room after working hours by activating the room's wall switch.
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 Reviewed by: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

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04	Ala	5785		335	371
<i>Catalino A. Enriquez</i> REGISTERED ELECTRICAL ENGINEER			01-03-14 DATE		
3-24-14 PLANS APPROVAL DATE					
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LIGHTNG CONTROL PROGRAM SCHEDULE

ROOM NUMBER	ROOM NAME	MULTI-LEVEL CONTROL	DAYLIGHTING CONTROL AND SET-POINT	SHUT-OFF CONTROL	DEMAND RESPONSIVE CONTROL	OTHER CONTROL
131	WOMEN	AUTOMATIC AND CONTINUOUS 0-100% DIMMING LEVEL OF ALL FIXTURE PER LIGHTING ZONE BY DAYLIGHTING CONTROL. MANUAL DIMMING (0-100%) OVERRIDE PER ZONE THROUGH THE WALL SWITCH, THEN CONTROL RESET TO AUTOMATIC DIMMING AFTER INACTIVE OCCUPANCY SENSOR AND EXPIRATION OF TIME DELAY. AT LOW AMBIENT LIGHT, FIXTURE OUTPUT MUST BE 50% WHEN OCCUPANCY SENSOR IS INACTIVE AND 90% WHEN ACTIVE.	YES/25 FC	MANUAL-ON OR OFF BY WALL SWITCH. LIGHTS TO TURN OFF WHEN OFF-SIGNAL RECEIVED FROM LIGHTING NETWORK GATEWAY. AT LOW AMBIENT LIGHT, AUTOMATIC DIMMING INITIATED BY INACTIVE OCCUPANCY SENSOR AFTER 10 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON THEN FULL AUTOMATIC ON/DIMMING BETWEEN HOURS OF 5:00 TO 20:00. MANUAL-ON THEN FULL AUTOMATIC ON/DIMMING BETWEEN HOURS OF 20:01 TO 4:59. TIME CLOCK PROVIDED BY LIGHTING NETWORK GATEWAY. LIGHTS TO TURN OFF WHEN OFF-SIGNAL RECEIVED FROM LIGHTING NETWORK GATEWAY.
132	MEN	AUTOMATIC AND CONTINUOUS 0-100% DIMMING LEVEL OF ALL FIXTURE PER LIGHTING ZONE BY DAYLIGHTING CONTROL. MANUAL DIMMING (0-100%) OVERRIDE PER ZONE THROUGH THE WALL SWITCH, THEN CONTROL RESET TO AUTOMATIC DIMMING AFTER INACTIVE OCCUPANCY SENSOR AND EXPIRATION OF TIME DELAY. AT LOW AMBIENT LIGHT, FIXTURE OUTPUT MUST BE 50% WHEN OCCUPANCY SENSOR IS INACTIVE AND 90% WHEN ACTIVE.	YES/25 FC	MANUAL-ON OR OFF BY WALL SWITCH. LIGHTS TO TURN OFF WHEN OFF-SIGNAL RECEIVED FROM LIGHTING NETWORK GATEWAY. AT LOW AMBIENT LIGHT, AUTOMATIC DIMMING INITIATED BY INACTIVE OCCUPANCY SENSOR AFTER 10 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON THEN FULL AUTOMATIC ON/DIMMING BETWEEN HOURS OF 5:00 TO 20:00. MANUAL-ON THEN FULL AUTOMATIC ON/DIMMING BETWEEN HOURS OF 20:01 TO 4:59. TIME CLOCK PROVIDED BY LIGHTING NETWORK GATEWAY. LIGHTS TO TURN OFF WHEN OFF-SIGNAL RECEIVED FROM LIGHTING NETWORK GATEWAY.
133	RECYCLED MATERIAL STORAGE	AUTOMATIC AND CONTINUOUS 0-100% DIMMING LEVEL OF PER FIXTURE PER LIGHTING ZONE BY DAYLIGHTING CONTROL. MANUAL DIMMING (0-100%) OVERRIDE PER ZONE THROUGH THE WALL SWITCH, THEN CONTROL RESET TO AUTOMATIC DIMMING AND AUTOMATIC-OFF AFTER INACTIVE OCCUPANCY SENSOR AND EXPIRATION OF TIME DELAY. LIGHT OUTPUT MUST BE AT 70% AFTER INITIAL SWITCH ACTIVATION AT NIGHT TIME.	YES/25 FC	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 15 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON AND AUTOMATIC-OFF ANY TIME.
134A	HAZARDOUS MATERIAL STORAGE	AUTOMATIC AND CONTINUOUS 0-100% DIMMING LEVEL OF ALL FIXTURE PER LIGHTING ZONE BY DAYLIGHTING CONTROL. MANUAL DIMMING (0-100%) OVERRIDE PER ZONE THROUGH THE WALL SWITCH, THEN CONTROL RESET TO AUTOMATIC DIMMING AND AUTOMATIC-OFF AFTER EXPIRATION OF TIME DELAY. LIGHT OUTPUT MUST BE AT 80% AFTER INITIAL SWITCH ACTIVATION AT NIGHT TIME.	YES/25 FC	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF AFTER 60 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON AND AUTOMATIC-OFF ANY TIME.
134B	BULK PAINT STORAGE	AUTOMATIC AND CONTINUOUS 0-100% DIMMING LEVEL OF ALL FIXTURE PER LIGHTING ZONE BY DAYLIGHTING CONTROL. MANUAL DIMMING (0-100%) OVERRIDE PER ZONE THROUGH THE WALL SWITCH, THEN CONTROL RESET TO AUTOMATIC DIMMING AND AUTOMATIC-OFF AFTER EXPIRATION OF TIME DELAY. LIGHT OUTPUT MUST BE AT 80% AFTER INITIAL SWITCH ACTIVATION AT NIGHT TIME.	YES/25 FC	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF AFTER 60 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON AND AUTOMATIC-OFF ANY TIME.
135	HAZARDOUS MATERIAL STORAGE	AUTOMATIC AND CONTINUOUS 0-100% DIMMING LEVEL OF ALL FIXTURE PER LIGHTING ZONE BY DAYLIGHTING CONTROL. MANUAL DIMMING (0-100%) OVERRIDE PER ZONE THROUGH THE WALL SWITCH, THEN CONTROL RESET TO AUTOMATIC DIMMING AND AUTOMATIC-OFF AFTER EXPIRATION OF TIME DELAY. LIGHT OUTPUT MUST BE AT 80% AFTER INITIAL SWITCH ACTIVATION AT NIGHT TIME.	YES/25 FC	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF AFTER 60 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON AND AUTOMATIC-OFF ANY TIME.
136	D.O. STORAGE	AUTOMATIC AND CONTINUOUS 0-100% DIMMING LEVEL OF ALL FIXTURE PER LIGHTING ZONE BY DAYLIGHTING CONTROL. MANUAL DIMMING (0-100%) OVERRIDE PER ZONE THROUGH THE WALL SWITCH, THEN CONTROL RESET TO AUTOMATIC DIMMING AND AUTOMATIC-OFF AFTER EXPIRATION OF TIME DELAY. LIGHT OUTPUT MUST BE AT 80% AFTER INITIAL SWITCH ACTIVATION AT NIGHT TIME.	YES/25 FC	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 30 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON AND AUTOMATIC-OFF ANY TIME.
137	D.O. STORAGE	MANUAL 0-100% DIMMING BY WALL SWITCH. LIGHT OUTPUT MUST BE AT 80% AFTER INITIAL SWITCH ACTIVATION AT ANY TIME.	NONE	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 30 MINUTES TIME DELAY.	YES	CONTROL MODE- MANUAL-ON AND AUTOMATIC-OFF ANY TIME.
138	ELECTRICAL ROOM	AUTOMATIC AND CONTINUOUS 0-100% DIMMING LEVEL OF ALL FIXTURE PER LIGHTING ZONE BY DAYLIGHTING CONTROL. MANUAL DIMMING (0-100%) OVERRIDE PER ZONE THROUGH THE WALL SWITCH, THEN CONTROL RESET TO AUTOMATIC DIMMING AND AUTOMATIC-OFF AFTER INACTIVE OCCUPANCY SENSOR AND EXPIRATION OF TIME DELAY. LIGHTS MUST BE AT 100% OUTPUT DURING BYPASS MODE BY TIMER SWITCH.	YES/25 FC	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 60 MINUTES TIME DELAY. INSTALL DIGITAL TIMER SWITCH TO HARDWIRED BYPASS OCCUPANCY SENSOR FOR 8 HOURS AT A TIME. DIGITAL TIMER SWITCH MUST HAVE BUILT-IN AUDIBLE AND VISUAL ALARM BEFORE LIGHT DEACTIVATION.	YES	NONE
139	IT CLOSET	NONE	NONE	DIGITAL TIMER SWITCH WITH 30 MINUTES TIME DELAY. DIGITAL TIMER SWITCH MUST HAVE AUDIBLE AND VISUAL ALARM BEFORE DEACTIVATION.	NONE	NONE

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Dali Zhou	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

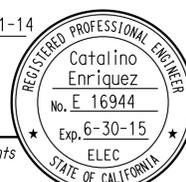
DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE No. 33M5785
 POST MILE

SFOBB WAREHOUSE
 CONTROL PROGRAM SCHEDULE 3

SHEET EE1-3.24

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: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		336	371
Catalino A. Enriquez		02-21-14		REGISTERED ELECTRICAL ENGINEER DATE	
3-24-14		PLANS APPROVAL DATE			
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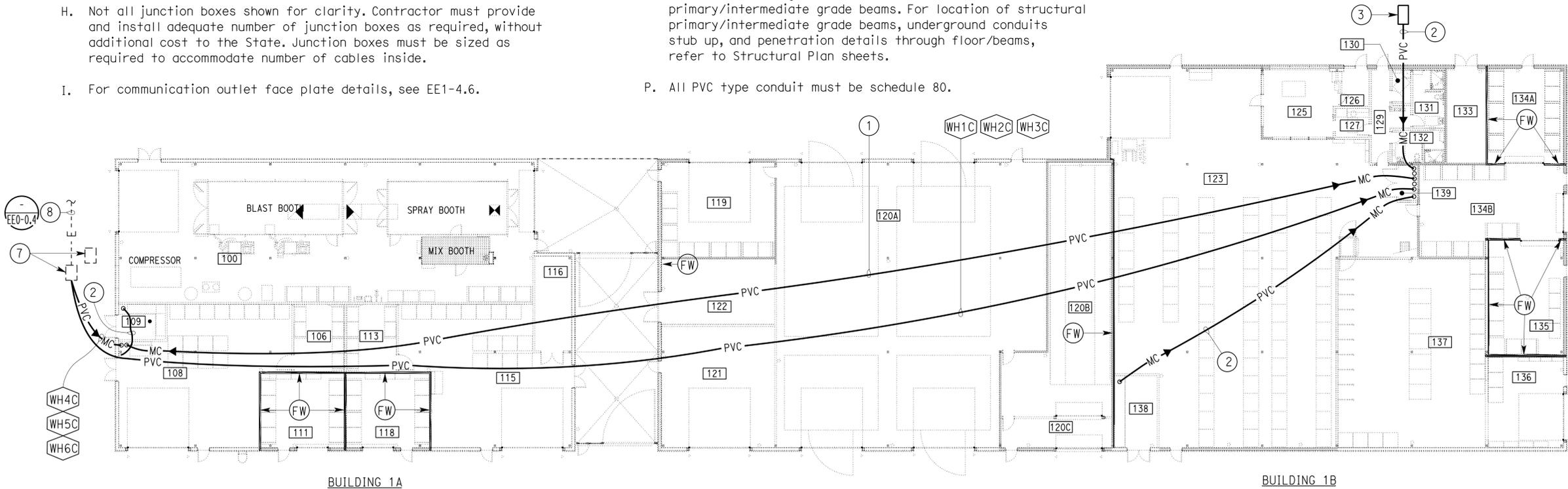
GENERAL NOTES:

- A. General Notes shown on this Plan sheet are applicable to all Communication System Plan sheets.
- B. Communication Outlets must consist of 2 voice and 2 data jacks. Voice cables must be terminated on voice jacks of communication outlets using 8P8C connectors and 48 port Voice Patch Panels using 8P8C connectors (WBR1V1, WBR1V2) at nearest communication closet. Data cables must be terminated on data jacks of communication outlets using 8P8C connectors and on 48 port 8P8C Data Patch Panels using 8P8C connectors (WBR1D1, WBR1D2) at nearest communication closet. All components must adhere to CAT6 specifications and be terminated in compliance with TIA-568 Standards.
- C. All elbow and risers for PVC conduits on this sheet must be PVC coated RSC. Wrap joints in touch with soil with two layers of wrapping tape.
- D. NOT USED
- E. Within office areas and areas with finished ceiling or furred wall, conduits must be concealed in ceiling or walls.
- F. For Warehouse 1B, plan data and voice cable conduit homeruns in a manner so that the total length of each cable from outlet to termination point is less than 300 feet.
- G. All conduit stub up must be 12" above finished floor or 12" below ceiling. Provide conduit bushings on all conduits.
- H. Not all junction boxes shown for clarity. Contractor must provide and install adequate number of junction boxes as required, without additional cost to the State. Junction boxes must be sized as required to accommodate number of cables inside.
- I. For communication outlet face plate details, see EE1-4.6.

- J. All data cables and voice cables must be identified with label at both ends of the cable with pre-printed, heat shrinkable type marker. Each marker must be placed at an easily accessible location somewhere between 6-12 inches from each end of the cable. The cable identification marker must adhere to the following convention:
 Data cable (blue cable) WB-125-1A to indicates Warehouse Building 1B, Room number 125 and data cable number 1 at outlet A.
 Voice cable (white cable) WB-125-1A to indicates Warehouse Building 1B, Room number 125 and voice cable number 1 at outlet A.
- K. Data cables certified tests utilizing industry standard instruments must be performed and results made available to the Engineer for acceptance and verification purposes. Common tests for datacom cabling including length, wiremap, attenuation, NEXT, DC loop resistance, and return loss must be performed. All the test data must be tabulated and provided in printed and electronic file version. Similar industry standard test certification and reporting must be performed for the fiber optics.
- L. For patch panels, communication racks, and other communication related equipment, see Communication plan sheets.
- M. For Voice and Data Cable Schedule, see EE1-4.8 and EE1-4.9.
- N. Submit all pertinent details to the Engineer for approval prior to installation.
- O. Underground conduits entering the building from outside and within the building shall be installed below the structural primary/intermediate grade beams. For location of structural primary/intermediate grade beams, underground conduits stub up, and penetration details through floor/beams, refer to Structural Plan sheets.
- P. All PVC type conduit must be schedule 80.

NOTES:

- ① (2) 4"C, PT
- ② 3"C, PT
- ③ No. 6 traffic rated pull box
- ④ NOT USED
- ⑤ NOT USED
- ⑥ NOT USED
- ⑦ Existing communication vault
- ⑧ Install 4-MMFO cable in existing 4"C. Install 1-50 pair #22 Category-3, 1-25 pair #22 Category-3 cable and 24 2 pair #22 Category #3 cables in existing 4"C. These conduits and cables to existing Main Communication Room 176 of SFOBB Maintenance Complex Building via existing communication vaults. Label conduits as shown on feeder conduit and cable schedule on this sheet.



FEEDER CONDUIT AND CABLE SCHEDULE

- WH1C 4"C with 2 MMFO cable
- WH2C 4"C with 50PR #22 Category-3 cable, 12 2PR #22 Category-3 cables
- WH3C 2-4"C, PT
- WH4C 4"C, 2 MMFO cables
- WH5C 4"C 25PR #22 Category-3 cable, 12 2PR #22 Category-3 cable
- WH6C 2-4"C, PT

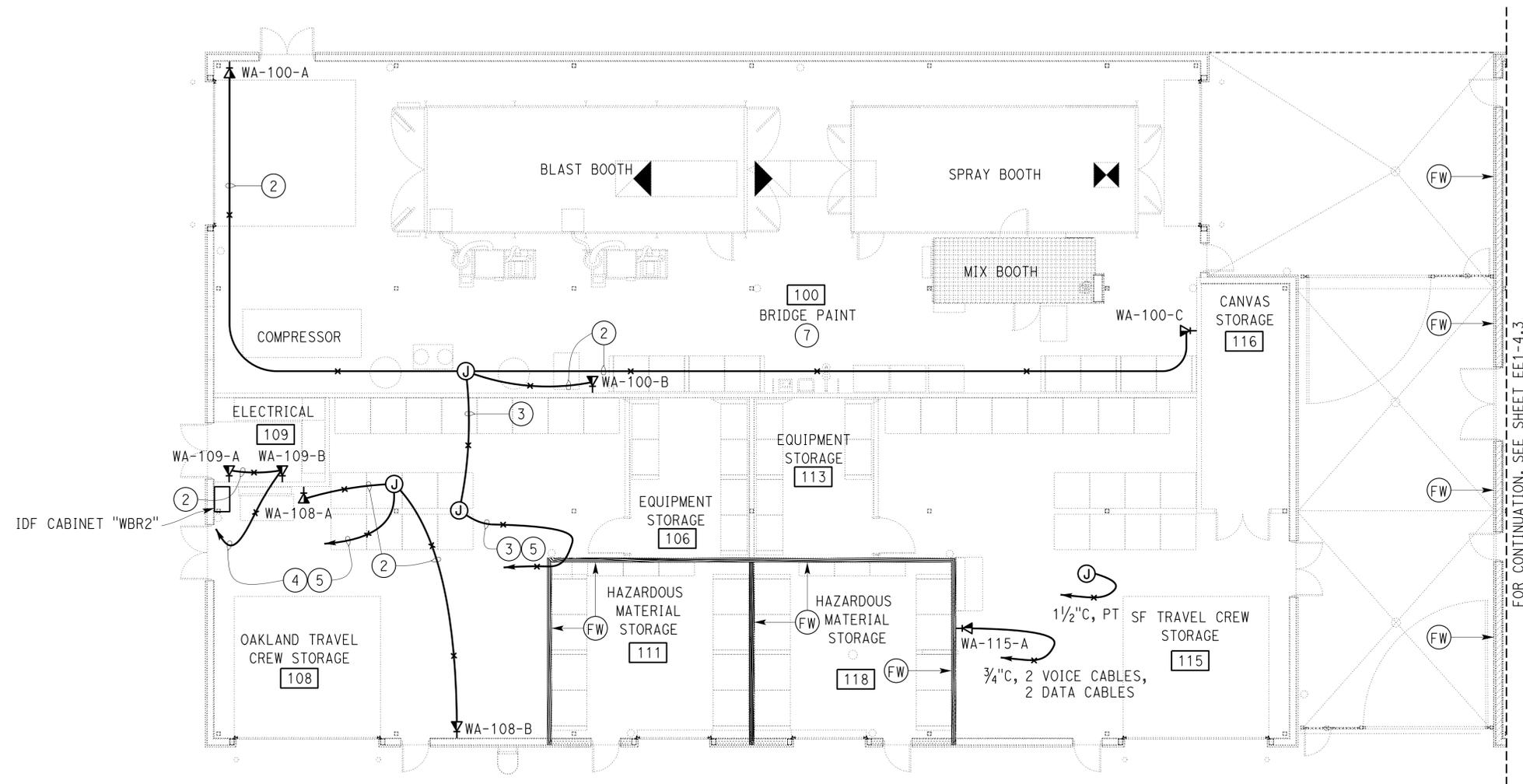
PLAN
 1/16" = 1'-0"

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	SFOBB WAREHOUSE COMMUNICATION FEEDER PLAN	SHEET
	DETAILS BY Dali Zhou	CHECKED Catalino Enriquez			33M5785		EE1-
	QUANTITIES BY Catalino Enriquez	CHECKED James Lacy			POST MILE		4.1
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
TAEWW Imperial - CCSC Rev. 01/13			P:\dist_04\0413000133_sfobb_maint_warehouse\elec\files\ones\FINAL EXPEDITE (HOPEFULLY) see1_4.01.dgn				30-APR-2014 09:52

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: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		337	371
Catalino A. Enriquez			01-03-14	REGISTERED ELECTRICAL ENGINEER DATE	
3-24-14			PLANS APPROVAL DATE		
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FOR CONTINUATION, SEE SHEET EE1-4.3

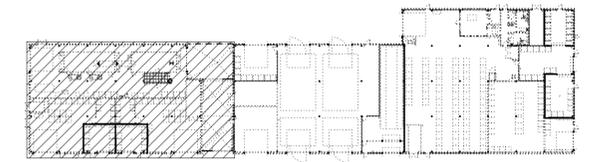
NOTES:

- ① NOT USED
- ② 3/4" C, 2 Data cables, 2 voice cables.
- ③ 1/2" C, 6 Data cables, 6 voice cables.
- ④ 1/2" C, 4 Data cables, 4 voice cables.
- ⑤ To voice and data patch panels in IDF CABINET WBR2. Route cable unspliced between communication outlet and appropriate patch panel.
- ⑥ NOT USED
- ⑦ The areas within 3 feet of spray booth, blast booth and mix booth openings are classified as Class 1 or Class 2, Division 2 area. All equipment and wiring methods in this area must comply with Class 1 or Class 2, Division 2 requirements of the California Electrical Code (CEC) as applicable. Route conduits and wirings away from the classified areas.



PLAN

1/8" = 1'-0"



KEY PLAN

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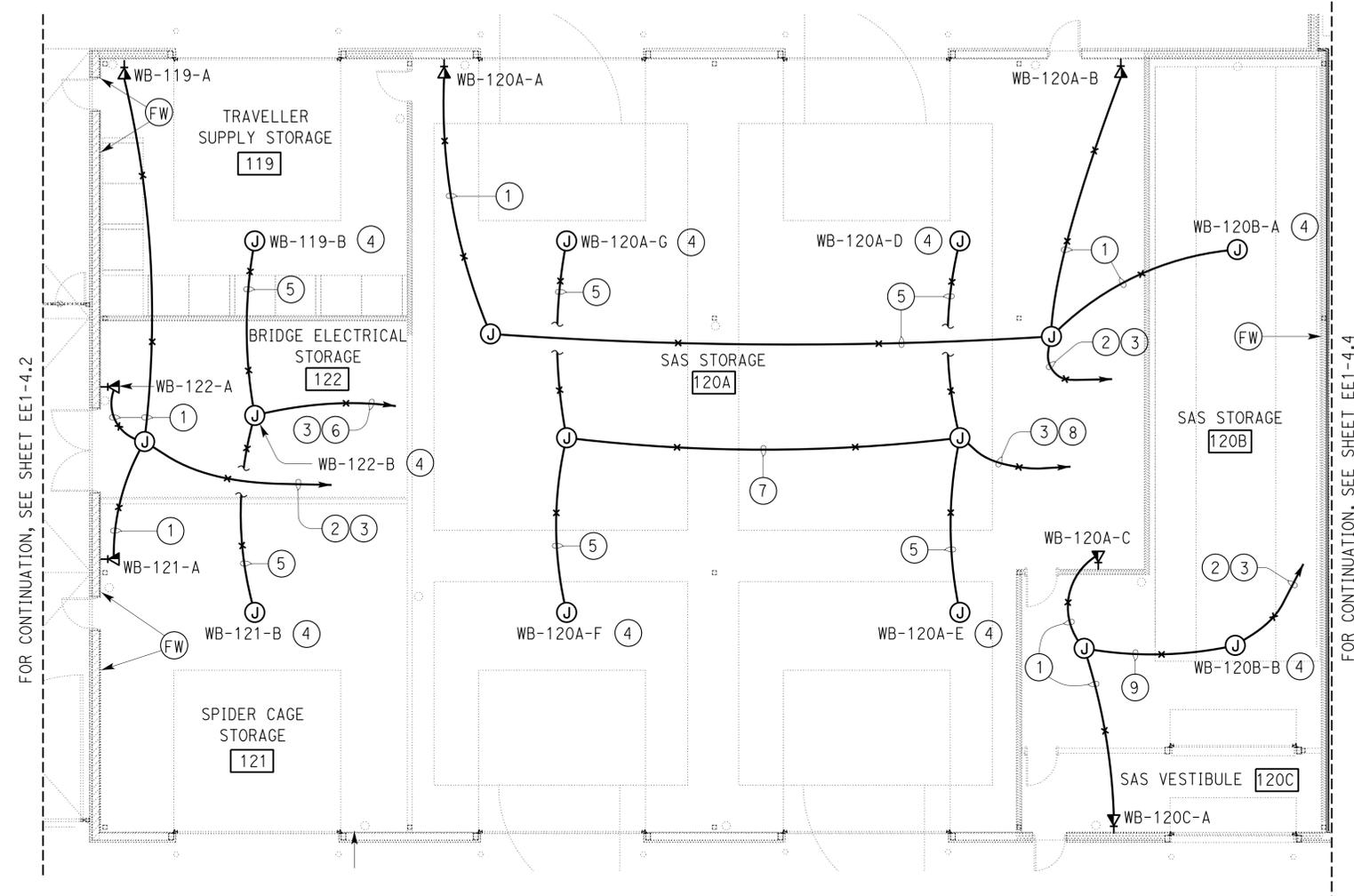
DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY D. Zhou/Ed Tapalla	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

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

BRIDGE No.	33M5785	BUILDING 1A	SFOBB WAREHOUSE	COMMUNICATIONS PLAN 1	SHEET EE1-4.2
POST MILE					

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 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		338	371
Catalino A. Enriquez			01-03-14	REGISTERED ELECTRICAL ENGINEER DATE	
3-24-14			PLANS APPROVAL DATE		
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FOR CONTINUATION, SEE SHEET EE1-4.2

FOR CONTINUATION, SEE SHEET EE1-4.4

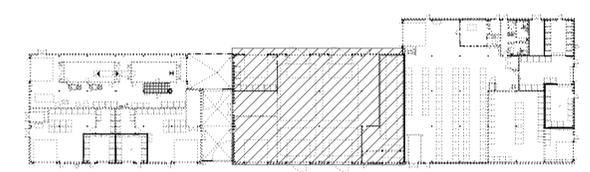
NOTES:

- ① 3/4"C, 2 Data cables, 2 voice cables.
- ② 2"C, 6 Data cables, 6 voice cables.
- ③ To voice and data patch panels in IT Closet. Route cable unspliced between communication outlet and appropriate patch panel. For details and continuation, see sheet EE1-4.1.
- ④ Ceiling mounted junction box. Provide unspliced 30 feet of additional length for each cable terminating and coiled inside junction box. Terminate appropriate cables inside the junction box for future connection. Label junction box with appropriate communication outlet identification.
- ⑤ 1 1/2"C, 2 Data cables, 2 voice cables.
- ⑥ 2"C, 6 Data cables, 6 voice cables.
- ⑦ 2"C, 4 Data cables, 4 voice cables.
- ⑧ 2"C, 8 Data cables, 8 voice cables.
- ⑨ 1 1/2"C, 4 Data cables, 4 voice cables.



PLAN

1/8" = 1'-0"



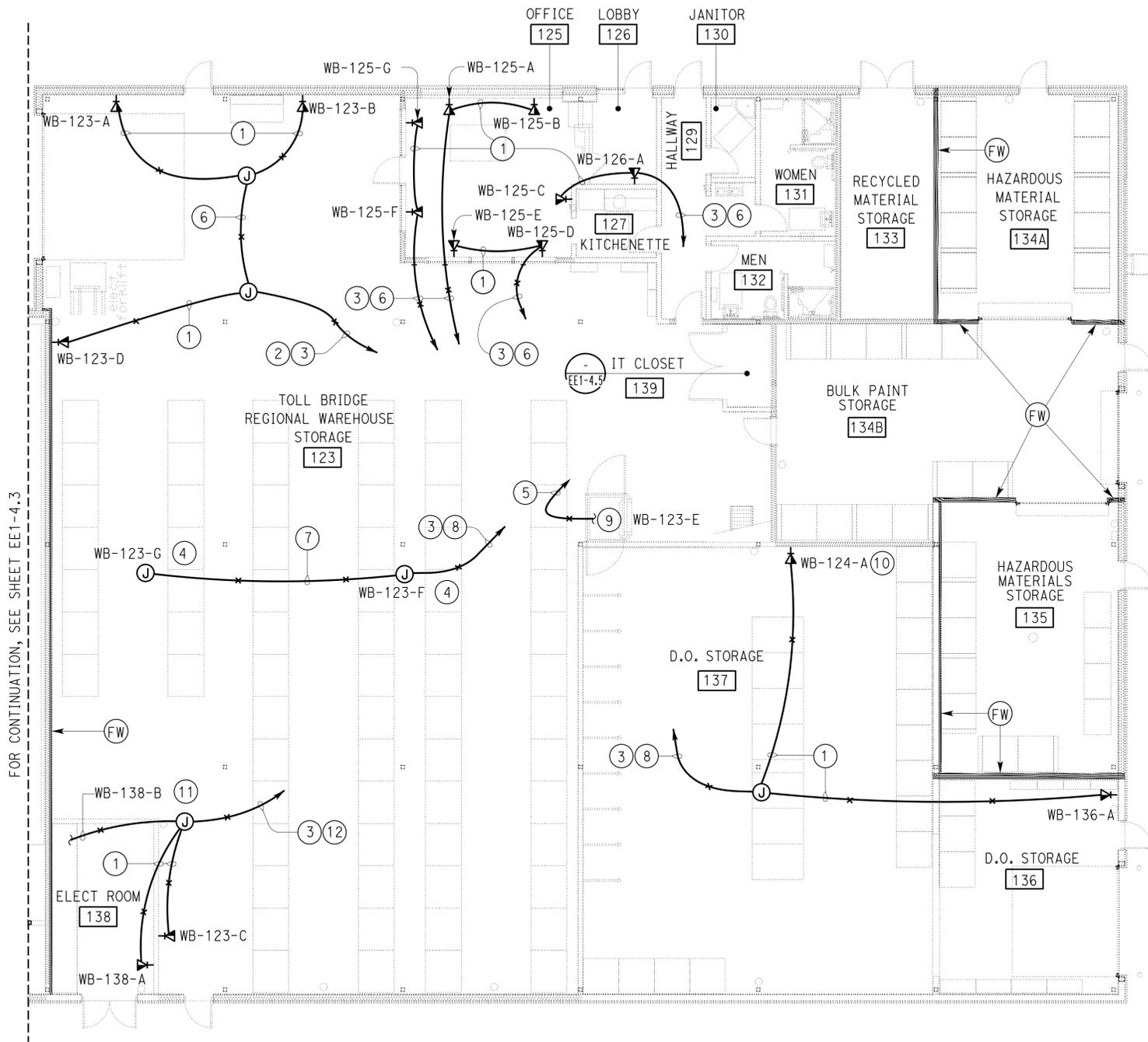
KEY PLAN

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DESIGN BY Catalino Enriquez CHECKED James Lacy	DETAILS BY Dali Zhou CHECKED Catalino Enriquez	QUANTITIES BY Catalino Enriquez CHECKED James Lacy	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE BUILDING 1B COMMUNICATIONS PLAN 2	SHEET EE1-4.3 OF
					POST MILE		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3				UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET OF	30-APR-2014 09:52

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 INGRID P. CASTANO
 Approval date: 02-11-14

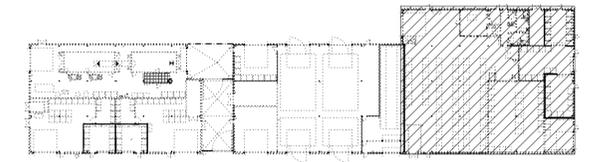
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		339	371
Catalino A. Enriquez			02-21-14	REGISTERED ELECTRICAL ENGINEER DATE	
3-24-14			PLANS APPROVAL DATE		
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FOR CONTINUATION, SEE SHEET EE1-4.3

- NOTES:
- ① 3/4"C, 2 data cables, 2 voice cables.
 - ② 2"C, 6 data cables, 6 voice cables.
 - ③ To voice and data patch panels in IT Closet. Route cable unspliced between communication outlet and appropriate patch panel. For details and continuation, see sheet EE1-4.1.
 - ④ Ceiling mounted junction box. Provide unspliced 30 feet of additional length for each cable terminating and coiled inside junction box. Terminate appropriate cables inside the junction box for future connection. Label junction box with appropriate communication outlet identification.
 - ⑤ 3/4"C, 2 voice cables to voice patch panel in IT Closet.
 - ⑥ 1"C, 4 data cables, 4 voice cables.
 - ⑦ 1 1/2"C, 2 data cables, 2 voice cables.
 - ⑧ 1 1/2"C, 4 data cables, 4 voice cables.
 - ⑨ Terminate cables to wheelchair lift's communication equipment as required by enforcing authorities.
 - ⑩ Mount device at the Mezzanine Storage area (upper level).
 - ⑪ 3/4"C, 2 data cables to IFS section that contains metering equipment. Terminate cables to equipment as required.
 - ⑫ 2"C, 6 data cables, 4 voice cables.

PLAN
 1/8" = 1'-0"



KEY PLAN

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Dali Zhou	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

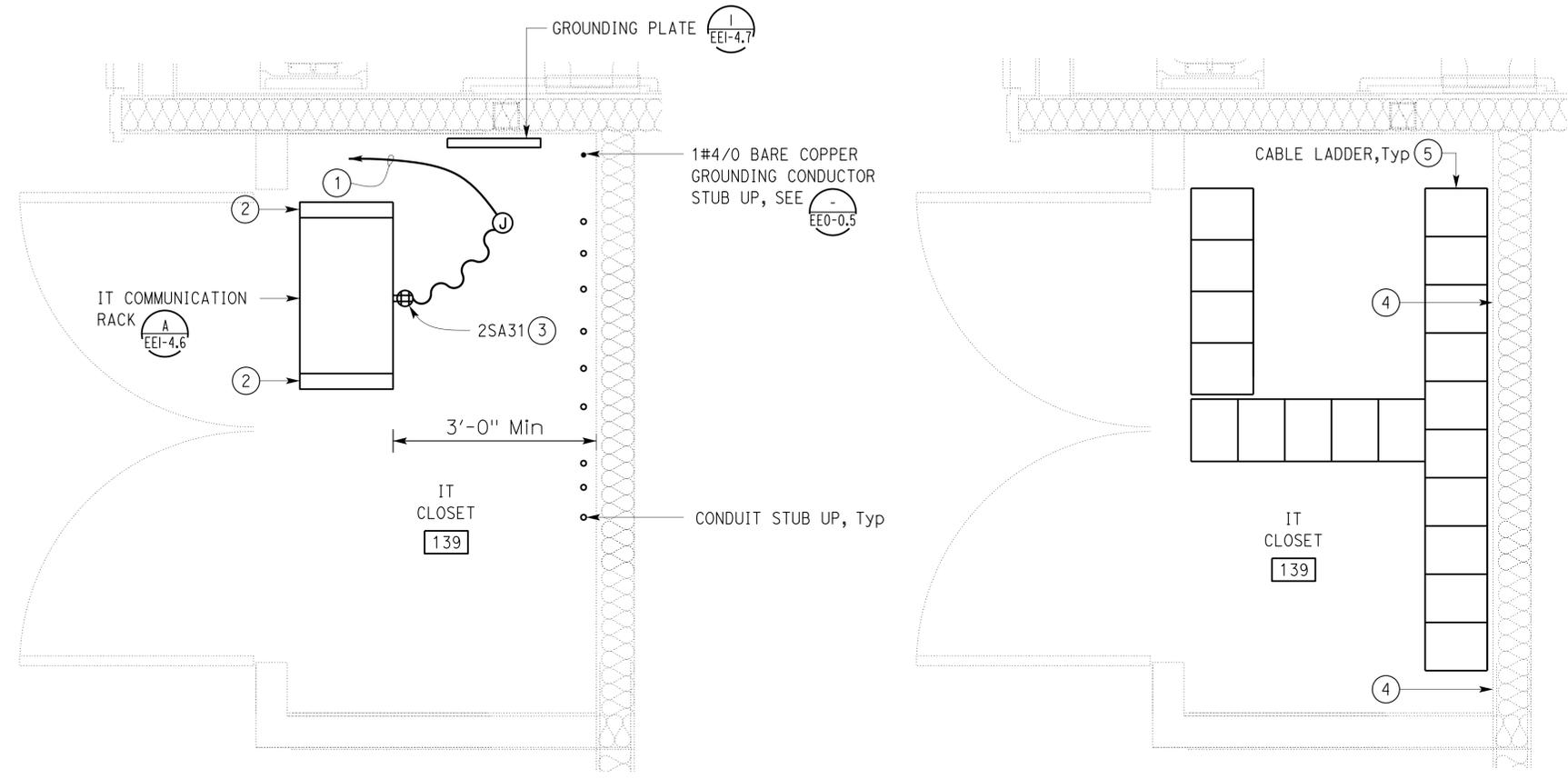
BRIDGE No. 33M5785
 POST MILE

SFOBB WAREHOUSE
 BUILDING 1B
 COMMUNICATIONS PLAN 3

SHEET **EE1-4.4** OF

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		340	371
Catalino A. Enriquez			02-21-14		
REGISTERED ELECTRICAL ENGINEER			DATE		
3-24-14			PLANS APPROVAL DATE		
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COMMUNICATION RACK

CABLE LADDER

EQUIPMENT PLAN
 $\frac{3}{4}'' = 1'-0''$

GENERAL NOTES:

- A. All data cables must be bundled by utilizing hook and loop straps and must be bundled in a manner to maintain a consistent pattern over the entire length of the data cables run, using "D" ring wire management.
- B. All voice cables must be bundled by utilizing hook and loop straps and must be bundled in a manner to maintain a consistent pattern over the entire length of the voice cables run, using "D" ring wire management.
- C. All conduit stub up must be 12" above finished floor or 12" below ceiling. Provide conduit bushings on all conduits.
- D. For Voice and Data Schedule, see EE1-4.8.
- E. All exposed metal parts that can accidentally become energized must be bonded to grounding plate.
- F. Bond racks to grounding plate with 1#4 copper conductor.
- G. Provide and install wire mesh cable tray system and all required accessories above the IT communication racks as directed by the Engineer.
- H. Underground conduits entering the building from outside and within the building shall be installed below the structural primary/intermediate grade beams. For location of structural primary/intermediate grade beams, underground conduits stub up, and penetration details through floor/beams, refer to Structural Plan sheets.
- I. Conduit stub ups must not be more than 2" from the face of the walls.
- J. Install plywood panels on 3 walls inside IT Closet. See Architectural plans.

NOTES:

- ① $\frac{3}{4}''$ C, 2#10, 4#10 spare 1#10G.
- ② Vertical cable manager.
- ③ Quad outlet must be located behind and above the rack and mounted to the side of the cable ladder. Exact location to be directed by the Engineer.
- ④ Install vertical cable manager as required on east wall.
- ⑤ Cable ladder mounting height must be per the direction of the Engineer.

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Ed D. Tapalla 10/13	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

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

BRIDGE No.	SFOBB WAREHOUSE		SHEET
33M5785	BUILDING 1B	IT CLOSET	EE1-4.5
POST MILE			OF

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		341	371

Catalino A. Enriquez 01-03-14
REGISTERED ELECTRICAL ENGINEER DATE

3-24-14
PLANS APPROVAL DATE

Catalino Enriquez
No. E 16944
Exp. 6-30-15
ELEC
STATE OF CALIFORNIA

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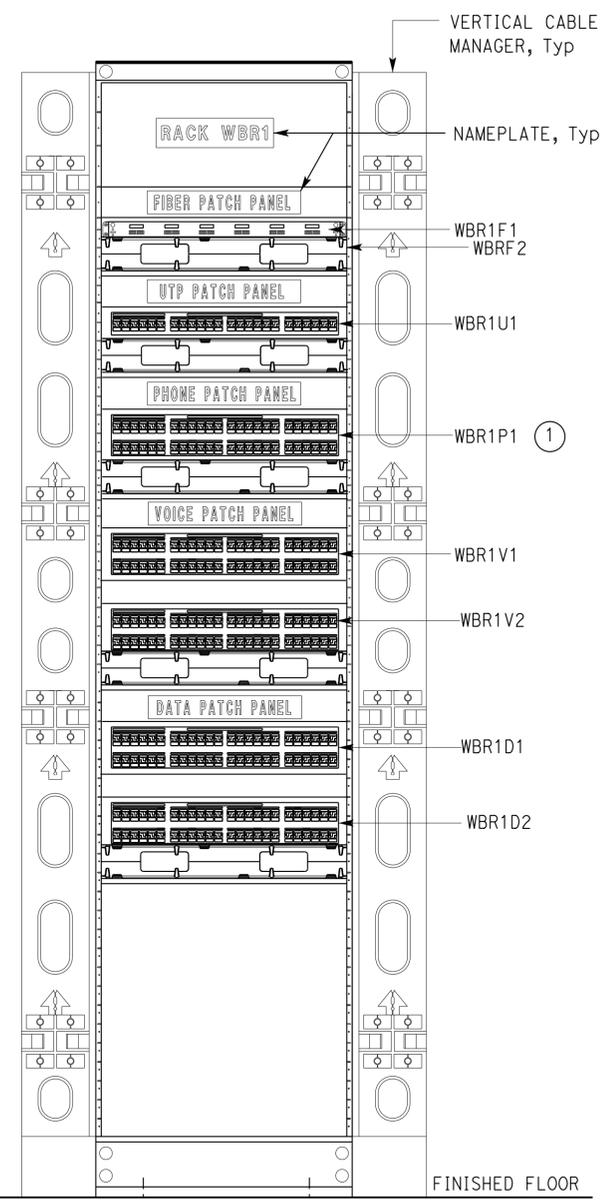
CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *Ingrid P. Castano*
INGRID P. CASTANO
Approval date: 02-11-14

- GENERAL NOTES:
- Back side of phone patch panel 1C1R1P1 ports shall be labeled by corresponding 66 Block and as directed by Caltrans' IT personnel, e.g. WB-PR1 corresponds to 66 Block 1, pair 1.
 - Connection between phone patch panels and voice patch panels will be performed by Caltrans' IT personnel.
 - See sheet EE1-4.1 for feeder conduit and cable schedule.

- NOTES:
- 1 Terminate one, 100 pair, SF/UTP phone cable on the patch panels WBR1P1 using 8P8C type connectors with USOC terminations.
 - 2 2-12 MMFO Cable in feeder conduit (WH1C)
 - 3 12 2PR#22 CATAGORY 3 cables in feeder conduit (WH2C)
 - 4 50-pair Category-3 cable in feeder conduit (WH2C)

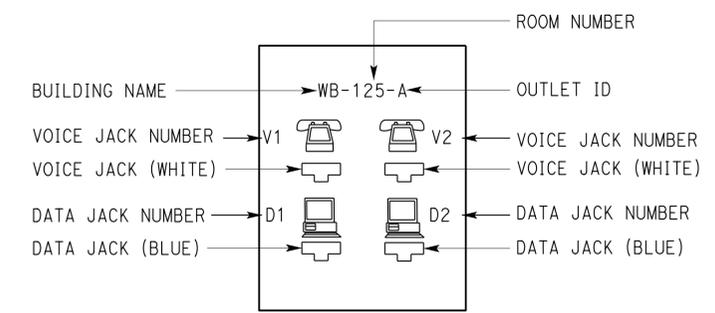


PATCH PANEL NAME	CABLE TERMINATION AT RACK WBR1	CABLE TERMINATION AT OTHER END
WBR1F1	12 Strands MMFO Cable (50 micron, multi-mode SC-SC terminated) (2)	Patch Panel 1BR2F3 of MDF in Room 176, Maintenance Complex Building
WBRF2F1	12 Strands MMFO Cable (50 micron, multi-mode SC-SC terminated) (2)	Patch Panel 1BR2F3 of MDF in Room 176, Maintenance Complex Building
WBR1U1	24-Port Patch Panel, Terminated (3)	Patch Panel 1BR2U2 in Room 176, Maintenance Complex Building
WBR1P1	48-Port Patch Panel, CAT3 minimum, RJ-45, Terminated 2 pair USOC (4)	MDF RJ-66 Block 17, 18, 19 and 20 in Room 176, Maintenance Complex Building
WBR1V1	48-Port Patch Panel, 4-Pair per RJ-45 port, CAT 6, Terminated TIA 568B	Communication Outlets (V1 & V2 Jacks), Warehouse Building
WBR1V2	48-Port Patch Panel, 4-Pair per RJ-45 port, CAT 6, Terminated TIA 568B	Communication Outlets (V1 & V2 Jacks), Warehouse Building
WBR1D1	48-Port Patch Panel, 4-Pair per RJ-45 port, CAT 6, Terminated TIA 568B	Communication Outlets (D1 & D2 Jacks), Warehouse Building
WBR1D2	48-Port Patch Panel, 4-Pair per RJ-45 port, CAT 6, Terminated TIA 568B	Communication Outlets (D1 & D2 Jacks), Warehouse Building

ANCHOR BRACKETS AND BOLTS, TYPICAL. FOR SEISMIC ANCHORING REQUIREMENTS, SEE PROJECT SPECIFICATIONS

A ELEVATION
NO SCALE

(CABLE LADDERS AND WIRE MESH CABLE TRAY SYSTEM ARE NOT SHOWN FOR CLARITY)



1 TYPICAL COMMUNICATION OUTLET FACE PLATE DETAIL
NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Dali Zhou	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

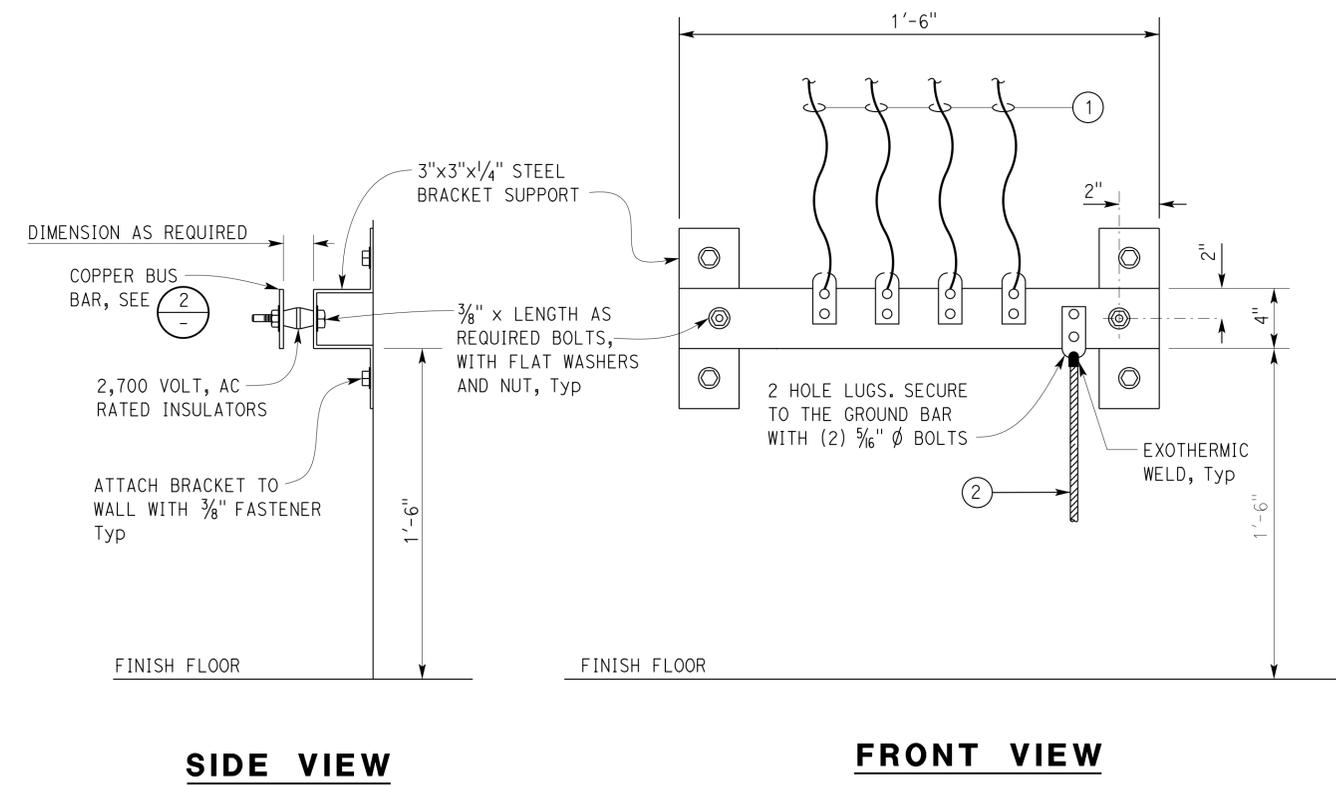
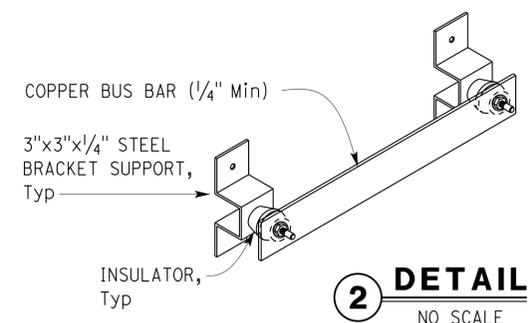
BRIDGE No. 33M5785
POST MILE

SFOBB WAREHOUSE
COMMUNICATION IDF DETAILS

SHEET EE1-4.6 OF

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: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		342	371
Catalino A. Enriquez			01-03-14	REGISTERED ELECTRICAL ENGINEER DATE	
3-24-14			PLANS APPROVAL DATE		
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- NOTES:
- ① Equipment grounding and bonding conductor as required, Typ
 - ② 1#4/0 bare copper grounding conductor to building grounding system. For continuation, see EE0-0.5.

1 GROUNDING PLATE DETAIL
NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Dali Zhou	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

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

BRIDGE No.	33M5785	SFOBB WAREHOUSE
POST MILE		
COMMUNICATION GROUNDING PLATE DETAILS		

SHEET **EE1-4.7** OF

OUTLET ID	CABLE ID	TERMINATION PORT AT PATCH PANEL	CABLE COLOR
WB-119-A	119-1A	WBR1V1-P1	WHITE
	119-2A	WBR1V1-P2	
	119-1A	WBR1D1-P1	BLUE
	119-2A	WBR1D1-P2	
WB-119-B	119-1B	WBR1V1-P3	WHITE
	119-2B	WBR1V1-P4	
	119-1B	WBR1D1-P3	BLUE
	119-2B	WBR1D1-P4	
WB-120A-A	120A-1A	WBR1V1-P5	WHITE
	120A-2A	WBR1V1-P6	
	120A-1A	WBR1D1-P5	BLUE
	120A-2A	WBR1D1-P6	
WB-120A-B	120A-1B	WBR1V1-P7	WHITE
	120A-2B	WBR1V1-P8	
	120A-1B	WBR1D1-P7	BLUE
	120A-2B	WBR1D1-P8	
WB-120A-C	120A-1C	WBR1V1-P9	WHITE
	120A-2C	WBR1V1-P10	
	120A-1C	WBR1D1-P9	BLUE
	120A-2C	WBR1D1-P10	
WB-120A-D	120A-1D	WBR1V1-P11	WHITE
	120A-2D	WBR1V1-P12	
	120A-1D	WBR1D1-P11	BLUE
	120A-2D	WBR1D1-P12	
WB-120A-E	120A-1E	WBR1V1-P13	WHITE
	120A-2E	WBR1V1-P14	
	120A-1E	WBR1D1-P13	BLUE
	120A-2E	WBR1D1-P14	
WB-120A-F	120A-1F	WBR1V1-P15	WHITE
	120A-2F	WBR1V1-P16	
	120A-1F	WBR1D1-P15	BLUE
	120A-2F	WBR1D1-P16	
WB-120A-G	120A-1G	WBR1V1-P17	WHITE
	120A-2G	WBR1V1-P18	
	120A-1G	WBR1D1-P17	BLUE
	120A-2G	WBR1D1-P18	
WB-120B-A	120B-1A	WBR1V1-P19	WHITE
	120B-2A	WBR1V1-P20	
	120B-1A	WBR1D1-P19	BLUE
	120B-2A	WBR1D1-P20	
WB-120B-B	120B-1B	WBR1V1-P21	WHITE
	120B-2B	WBR1V1-P22	
	120B-1B	WBR1D1-P21	BLUE
	120B-2B	WBR1D1-P22	

OUTLET ID	CABLE ID	TERMINATION PORT AT PATCH PANEL	CABLE COLOR
WB-120C-A	120C-1A	WBR1V1-P23	WHITE
	120C-2A	WBR1V1-P24	
	120C-1A	WBR1D1-P23	BLUE
	120C-2A	WBR1D1-P24	
WB-121-A	121-1A	WBR1V1-P25	WHITE
	121-2A	WBR1V1-P26	
	121-1A	WBR1D1-P25	BLUE
	121-2A	WBR1D1-P26	
WB-121-B	121-1B	WBR1V1-P27	WHITE
	121-2B	WBR1V1-P28	
	121-1B	WBR1D1-P27	BLUE
	121-2B	WBR1D1-P28	
WB-122-A	122-1A	WBR1V1-P29	WHITE
	122-2A	WBR1V1-P30	
	122-1A	WBR1D1-P29	BLUE
	122-2A	WBR1D1-P30	
WB-122-B	122-1B	WBR1V1-P31	WHITE
	122-2B	WBR1V1-P32	
	122-1B	WBR1D1-P31	BLUE
	122-2B	WBR1D1-P32	
WB-123-A	123-1A	WBR1V1-P33	WHITE
	123-2A	WBR1V1-P34	
	123-1A	WBR1D1-P33	BLUE
	123-2A	WBR1D1-P34	
WB-123-B	123-1B	WBR1V1-P35	WHITE
	123-2B	WBR1V1-P36	
	123-1B	WBR1D1-P35	BLUE
	123-2B	WBR1D1-P36	
WB-123-C	123-1C	WBR1V1-P37	WHITE
	123-2C	WBR1V1-P38	
	123-1C	WBR1D1-P37	BLUE
	123-2C	WBR1D1-P38	
WB-123-D	123-1D	WBR1V1-P39	WHITE
	123-2D	WBR1V1-P40	
	123-1D	WBR1D1-P39	BLUE
	123-2D	WBR1D1-P40	
WB-123-E	123-1E	WBR1V1-P41	WHITE
	123-2E	WBR1V1-P42	
	-	-	-
	-	-	
WB-123-F	123-1F	WBR1V1-P43	WHITE
	123-2F	WBR1V1-P44	
	123-1F	WBR1D1-P43	BLUE
	123-2F	WBR1D1-P44	

OUTLET ID	CABLE ID	TERMINATION PORT AT PATCH PANEL	CABLE COLOR
WB-123-G	123-1G	WBR1V1-P45	WHITE
	123-2G	WBR1V1-P46	
	123-1G	WBR1D1-P45	BLUE
	123-2G	WBR1D1-P46	
WB-124-A	124-1A	WBR1V1-P47	WHITE
	124-2A	WBR1V1-P48	
	124-1A	WBR1D1-P47	BLUE
	124-2A	WBR1D1-P48	
WB-125-A	125-1A	WBR1V2-P1	WHITE
	125-2A	WBR1V2-P2	
	125-1A	WBR1D2-P1	BLUE
	125-2A	WBR1D2-P2	
WB-125-B	125-1B	WBR1V2-P3	WHITE
	125-2B	WBR1V2-P4	
	125-1B	WBR1D2-P3	BLUE
	125-2B	WBR1D2-P4	
WB-125-C	125-1C	WBR1V2-P5	WHITE
	125-2C	WBR1V2-P6	
	125-1C	WBR1D2-P5	BLUE
	125-2C	WBR1D2-P6	
WB-125-D	125-1D	WBR1V2-P7	WHITE
	125-2D	WBR1V2-P8	
	125-1D	WBR1D2-P7	BLUE
	125-2D	WBR1D2-P8	
WB-125-E	125-1E	WBR1V2-P9	WHITE
	125-2E	WBR1V2-P10	
	125-1E	WBR1D2-P9	BLUE
	125-2E	WBR1D2-P10	
WB-125-F	125-1F	WBR1V2-P11	WHITE
	125-2F	WBR1V2-P12	
	125-1F	WBR1D2-P11	BLUE
	125-2F	WBR1D2-P12	
WB-125-G	125-1G	WBR1V2-P13	WHITE
	125-2G	WBR1V2-P14	
	125-1G	WBR1D2-P13	BLUE
	125-2G	WBR1D2-P14	
WB-126-A	126-1A	WBR1V2-P15	WHITE
	126-2A	WBR1V2-P16	
	126-1A	WBR1D2-P15	BLUE
	126-2A	WBR1D2-P16	
WB-136-A	136-1A	WBR1V2-P17	WHITE
	136-2A	WBR1V2-P18	
	136-1A	WBR1D2-P17	BLUE
	136-2A	WBR1D2-P18	

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: *Ingrid P. Castano*
INGRID P. CASTANO
Approval date: 02-11-14

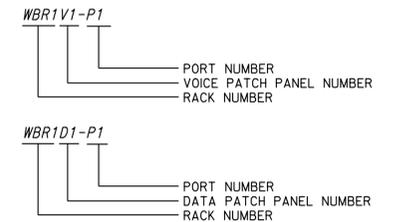
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		343	371

Catalino A. Enriquez 02-21-14
REGISTERED ELECTRICAL ENGINEER DATE

3-24-14
PLANS APPROVAL DATE

Catalino Enriquez
No. E 16944
Exp. 6-30-15
ELEC
STATE OF CALIFORNIA

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



LEGEND

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Dali Zhou	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

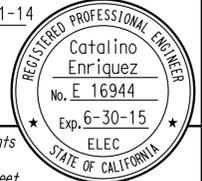
BRIDGE No. 33M5785
POST MILE

SFOBB WAREHOUSE
VOICE AND DATA CABLE SCHEDULE 1

SHEET EE1-4.8 OF

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: *Ingrid P. Casiano*
 INGRID P. CASTIANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		344	371
<i>Catalino A. Enriquez</i> REGISTERED ELECTRICAL ENGINEER			02-21-14 DATE		
			3-24-14 PLANS APPROVAL DATE		
<i>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.</i>					



OUTLET ID	CABLE ID	TERMINATION PORT AT PATCH PANEL	CABLE COLOR
WB-138-A	138-1A	WBR1V2-P19	WHITE
	138-2A	WBR1V2-P20	
	138-1A	WBR1D2-P19	BLUE
	138-2A	WBR1D2-P20	
WB-138-B	-	-	-
	-	-	-
	138-1B	WBR1D2-P21	BLUE
138-2B	WBR1D2-P22		
WA-100-A	100-1A	WBR2V2-P23	WHITE
	100-2A	WBR2V2-P24	
	100-1A	WBR2D2-P23	BLUE
	100-2A	WBR2D2-P24	
WA-100-B	100-1B	WBR2V2-P25	WHITE
	100-2B	WBR2V2-P26	
	100-1B	WBR2D2-P25	BLUE
	100-2B	WBR2D2-P26	
WA-100-C	100-1C	WBR2V2-P27	WHITE
	100-2C	WBR2V2-P28	
	100-1C	WBR2D2-P27	BLUE
	100-2C	WBR2D2-P28	
WA-108-A	108-1A	WBR2V2-P29	WHITE
	108-2A	WBR2V2-P30	
	108-1A	WBR2D2-P29	BLUE
	108-2A	WBR2D2-P30	
WA-108-B	108-1B	WBR2V2-P31	WHITE
	108-2B	WBR2V2-P32	
	108-1B	WBR2D2-P31	BLUE
	108-2B	WBR2D2-P32	
WA-109-A	109-1A	WBR2V2-P37	WHITE
	109-2A	WBR2V2-P38	
	109-1A	WBR2D2-P37	BLUE
	109-2A	WBR2D2-P38	
WA-109-B	109-1B	WBR2V2-P39	WHITE
	109-2B	WBR2V2-P40	
	109-1B	WBR2D2-P39	BLUE
	109-2B	WBR2D2-P40	
WA-115-A	115-1A	WBR2V2-P41	WHITE
	115-2A	WBR2V2-P42	
	115-1A	WBR2D2-P41	BLUE
	115-2A	WBR2D2-P42	

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY Catalino Enriquez CHECKED James Lacy	DETAILS BY Dali Zhou CHECKED Catalino Enriquez	QUANTITIES BY Catalino Enriquez CHECKED James Lacy	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE VOICE AND DATA CABLE SCHEDULE 2	SHEET EE1-4.9 OF
					POST MILE		
					UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		TAEWW Imperial - CCSC Rev. 01/13		P:\dist_04\0413000133_sfobb_main_warehouse\elec\files\final_EXPEDITE (HOPEFULLY)\ee1_4.09.dgn		30-APR-2014 09:52	

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		345	371

Javid Amirazodi 02-21-14
 REGISTERED ELECTRICAL ENGINEER DATE

3-24-14
 PLANS APPROVAL DATE

Javid Amirazodi
 No. E 17509
 Exp. 6-30-15
 ELEC
 STATE OF CALIFORNIA

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

GENERAL NOTES: (Applicable to All Intrusion Alarm and Access System Plan Sheets)

- A. Conduit system and conductor layout for Intrusion Alarm and Access System is not shown. Submit conduit and conductor layout and all pertinent details to the Engineer for approval prior to installation. See Special Provisions for requirement.
- B. Unless otherwise noted, card reader must be mounted on the adjacent wall at a convenient location near the door as directed by the Engineer and as recommended by the manufacturer.
- C. All base elbows and vertical risers through concrete slab must be PVC coated rigid steel conduit. Wrap joints in contact with soil with two layers of 20 mil thick pipe wrapping tape.
- D. For locations of Intrusion Alarm Control Panel and Access Control Panel, see EE1-5.1.
- E. Electrical conduits in rooms 125, 126, 127, 129, 130, 131 and 132 must be concealed in ceiling or walls. Electrical conduits in other rooms may be exposed.
- F. All conduit stub ups must be 12" above finished floor or 12" below ceiling. Provide conduit bushings on all conduits.
- G.  with number inside represents a given door number. For door schedule, see Architectural Plan sheets.  with number inside represents a given room number.
- H. Lock guards, electromechanical locks, electrified door hinges, panic devices, mechanical door hardware's and electrical power transfer hinges are part of door finished hardware. These devices are shown on these Plan sheets and door schedule for clarity only. See "Door Hardware" specifications. Coordinate with door supplier for required number/type of power supplies and number/size of conductors that are required for complete operation of the system.
- I. Install expansion modules as required. Expansion modules are not shown on Plans.
- J. For Intrusion alarm and Access system zoning schedules, see EE1-5.4, EE1-5.5.
- K. The number of door controller enclosures and number of conduit home runs to Intrusion Alarm and Access Control Panels as shown on Plans are arbitrary only. Therefore, provide and install adequate number of door controller enclosures and conduit home runs to Intrusion Alarm and Access Control Panel for proper operation of the Intrusion Alarm and Access system. Perform the following at each access card reader controller enclosure location:
 - All door controller enclosures must be suitable for 120-Volt AC and must be complete with low voltage transformer, power supply, expansion card and other required devices;
 - Supply door controller enclosures from the nearest unswitched receptacle circuit by using 1/2"C, 2#12, 1#12G and update affected panel directory;
 - All this work and any other devices required must be provided and installed at no additional cost to the State.

- L. Install adequate number of junction boxes as required, without additional cost to the State. Junction boxes must be sized as required to accommodate number of cables/conductors.
- M. Conduit/conductors to power supplies are not shown for clarity. Conduits must be concealed where applicable.
- N. Underground conduits entering the building from outside and within the building must be installed below the structural primary/intermediate grade beams. For location of structural primary/intermediate grade beams, underground conduits stub up, and penetration details through floor/beams, refer to Structural Plan sheets.
- O. Install power supply inside hinged cover panel, and identify each panel with proper identification. Panel Identification supplied by door hardware manufacturer must read "POWER SUPPLY_ACCESS CONTROL SYSTEM".
- P. Room numbers 111, 118, 134A and 135 are Class 1, Division 1 rated area. All equipment and wiring methods in these area must comply with Class 1, Division 1 requirements of the 2010 California Electrical Code (CEC). Submit complete installation details including but not limited to conduit routes to all equipment, conduit seal locations and equipment mounting height details, etc. for approval to the Engineer, prior to installation. All conduits must be rigid steel conduit.
- Q. The areas within 3 feet of spray booth, blast booth, mix booth, and hazardous material storage (rooms 111, 118, 134A and 135) openings and above spray booth, blast booth, mix booth are Class 1 or Class 2, division 2 area. All equipment and wiring methods in this area must comply with Class 1 or Class 2, Division 2 requirements of the 2010 California Electrical Code (CEC). Submit complete installation details including but not limited to conduit route to all equipment, conduit seal locations and equipment mounting height details, etc. for approval to the Engineer, prior to installation. All conduits must be rigid steel conduit.
- R. All conduit systems above blast booth, spray booth and mix booth must be rigid steel conduit type.

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 3/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 33M5785
 POST MILE

SFOBB WAREHOUSE
 INTRUSION ALARM AND ACCESS SYSTEM GENERAL NOTES

SHEET **EE1-5.0** OF

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: *Ingrit P. Icasiano*
 INGRIT P. ICASIANO
 Approval date: 02-11-14

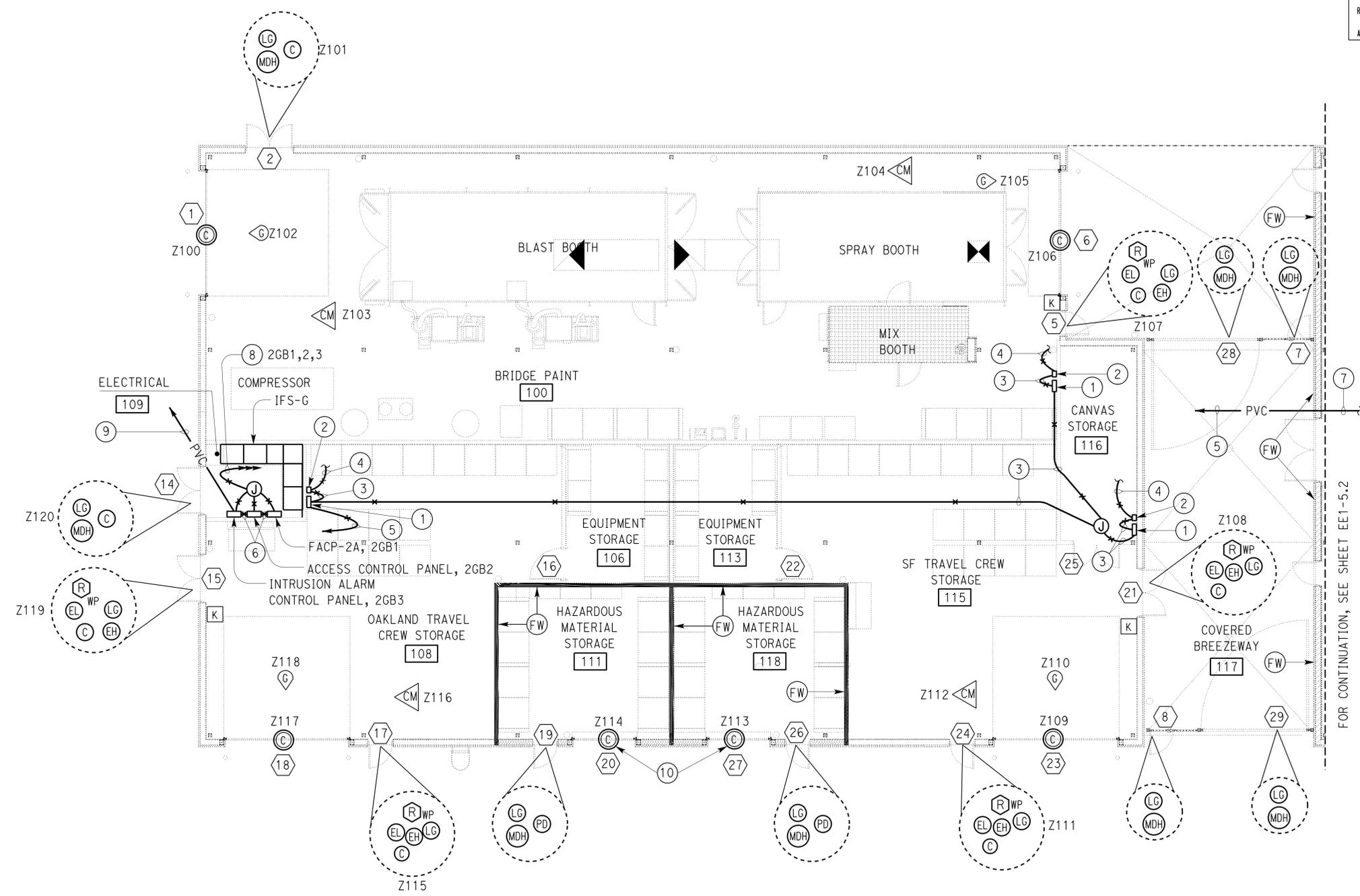
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		346	371

Javid Amirazodi 02-21-14
 REGISTERED ELECTRICAL ENGINEER DATE

3-24-14
 PLANS APPROVAL DATE

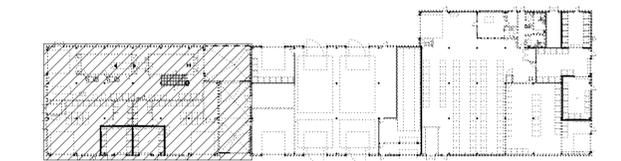
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REGISTERED PROFESSIONAL ENGINEER
 Javid Amirazodi
 No. E 17509
 Exp. 6-30-15
 ELEC
 STATE OF CALIFORNIA



- Notes:
- 1 Door controller enclosure.
 - 2 Power supply.
 - 3 Conduit for access and intrusion system, size as required. Provide and install access control and intrusion alarm cables as required.
 - 4 Supply power from the nearest unswitched receptacle circuit by using 1/2" C, 2#12, 1#12G and update affected panel directory.
 - 5 Conduit for access and intrusion system to Intrusion Alarm Control Panel and Access Control Panel in Electrical Room 109, size as required. Provide and install access control and intrusion alarm cables as required.
 - 6 -2" C, with conductors and cables as required. -2" C PT.
 - 7 For Continuation, see EE1-5.2.
 - 8 1" C, 6#12, 1#12G.
 - 9 4" C, control cables for Intrusion Alarm and Access System to existing Communication Vault. For continuation, see EE0-0.4.
 - 10 Surface mounted magnetic contact switch.

PLAN
 1/8" = 1'-0"



KEY PLAN

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY: Javid Amirazodi	CHECKED: Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE BUILDING 1A INTRUSION ALARM AND ACCESS SYSTEM PLAN 1	SHEET 3 OF 5	
DETAILS BY: Ed D. Tapalla 3/13	CHECKED: Javid Amirazodi			POST MILE		REVISION DATES (PRELIMINARY STAGE ONLY)	DATE
QUANTITIES BY: Javid Amirazodi	CHECKED: Jaswinder Gill			UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331		DISREGARD PRINTS BEARING EARLIER REVISION DATES	3-25-13 10-28-13 2-21-14

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

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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: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

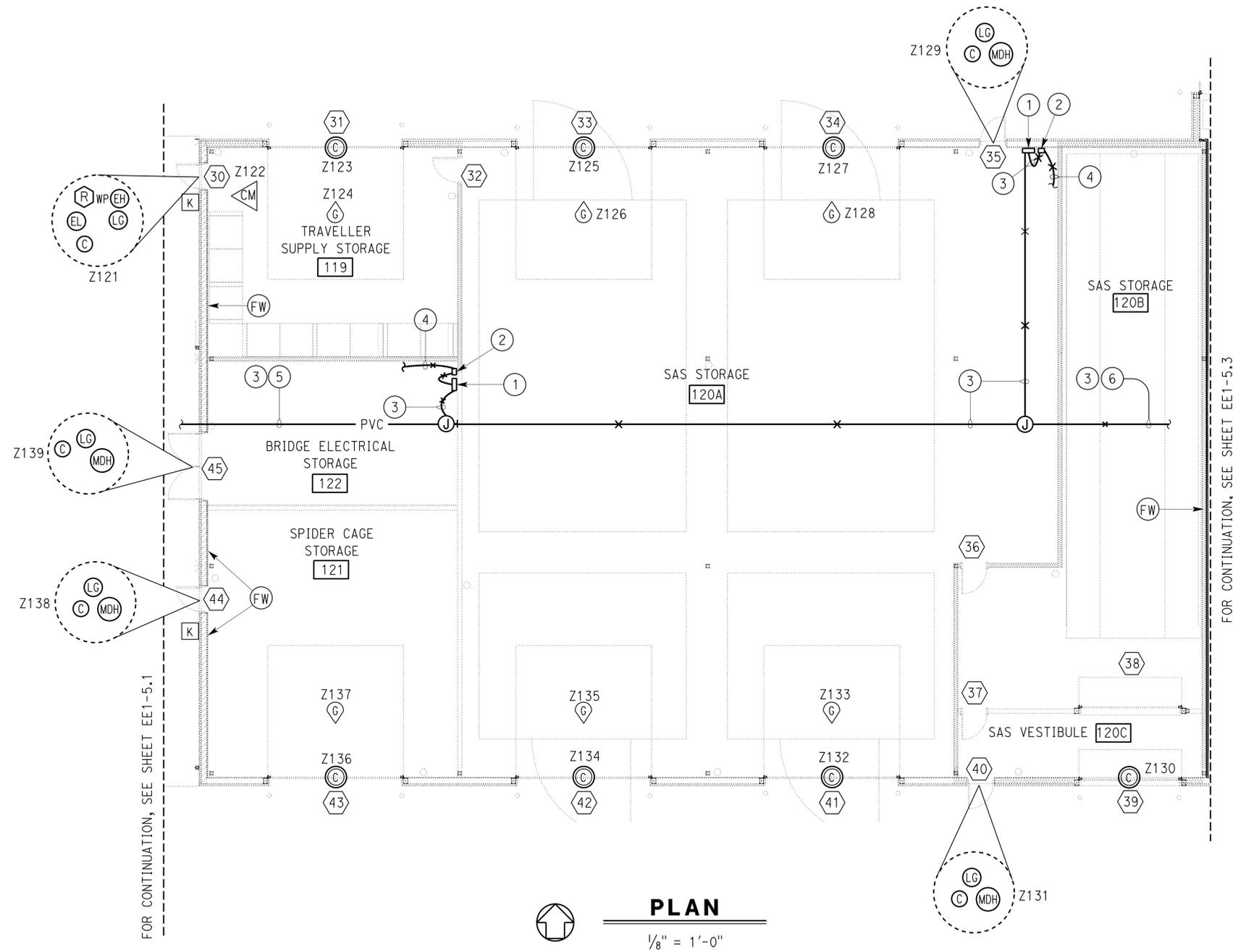
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		347	371

Javid Amirazodi 02-21-14
 REGISTERED ELECTRICAL ENGINEER DATE

3-24-14
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 Javid Amirazodi
 No. E 17509
 Exp. 6-30-15
 ELEC
 STATE OF CALIFORNIA



- NOTES:
- 1 Door controller enclosure.
 - 2 Power supply.
 - 3 Conduit for access and intrusion system, size as required. Provide and install access control and intrusion alarm cables as required.
 - 4 Supply power from the nearest unswitched receptacle circuit by using 1/2" C, 2#12, 1#12G and update affected panel directory.
 - 5 For continuation, see EE1-5.1.
 - 6 For continuation, see EE1-5.3.



KEY PLAN

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 3/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No.	33M5785
POST MILE	

SFOBB WAREHOUSE

BUILDING 1B
 INTRUSION ALARM AND ACCESS SYSTEM PLAN 2

SHEET
EE1-5.2



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 INGRIT P. CASTANO
 Approval date: 02-11-14

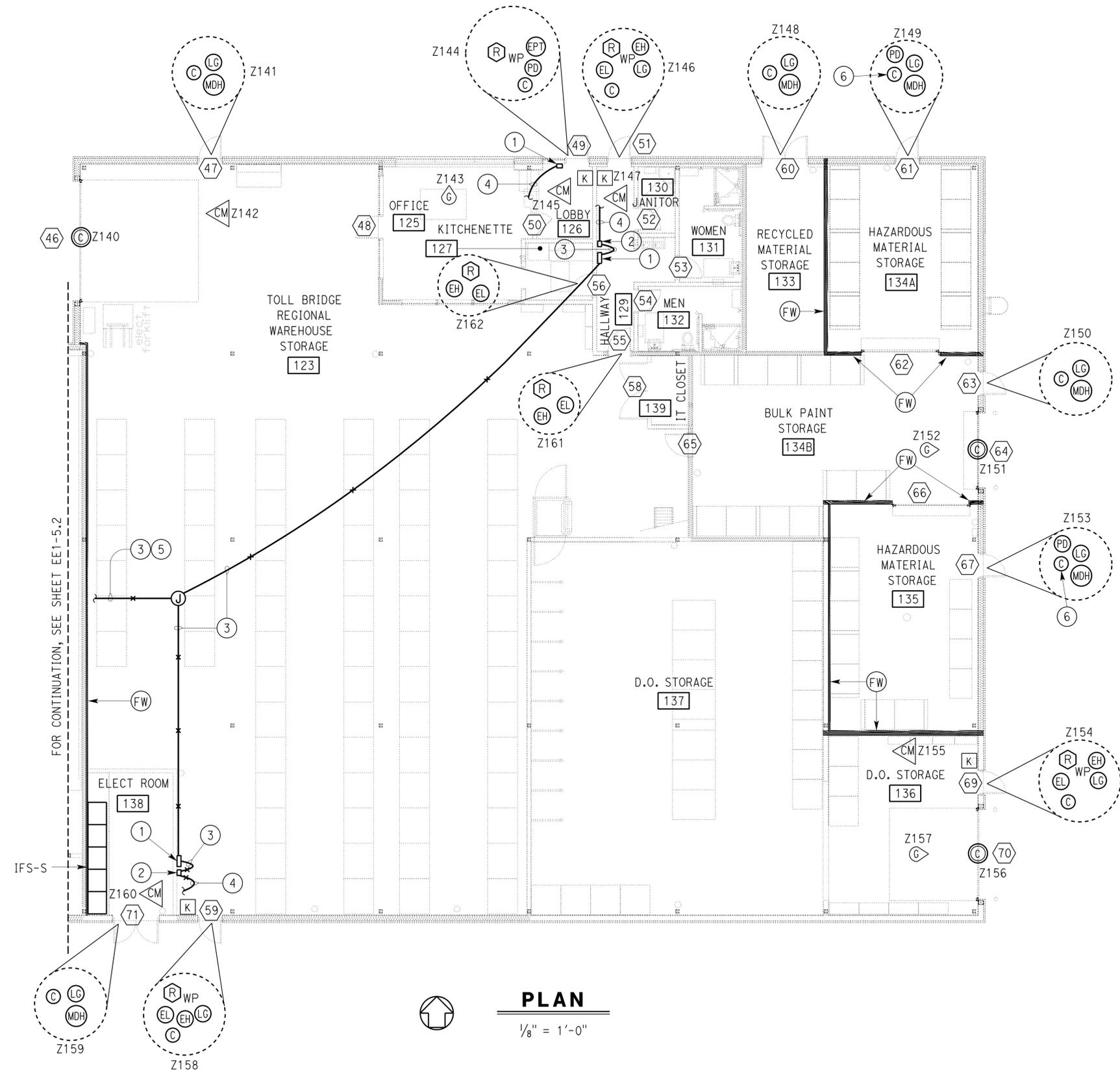
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		348	371

Javid Amirazodi 02-21-14
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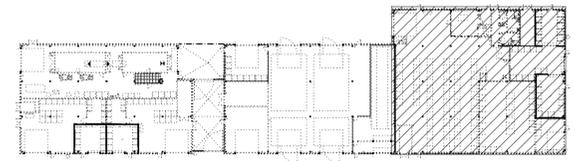
3-24-14
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Javid Amirazodi
 No. E 17509
 Exp. 6-30-15
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 STATE OF CALIFORNIA

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- NOTES:
- 1 Door controller enclosure.
 - 2 Power supply.
 - 3 Conduit for access and intrusion system, size as required. Provide and install access control and intrusion alarm cables as required.
 - 4 Supply power from the nearest unswitched receptacle circuit by using 1/2" C, 2#12, 1#12G and update affected panel directory.
 - 5 For continuation, see sheet EE1-5.2.
 - 6 Surface mounted magnetic contact switch.



KEY PLAN

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DETAILS	BY Ed D. Tapalla 3/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 33M5785
 POST MILE

SFOBB WAREHOUSE
 BUILDING 1B
 INTRUSION ALARM AND ACCESS SYSTEM PLAN 3

SHEET **EE1-5.3** OF

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

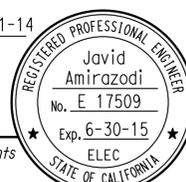


UNIT: 3597 CONTRACT No.: 014101
 PROJECT NUMBER & PHASE: 04130001331

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
10-25-13 2-21-14		

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 INGRIT P. CASTANO
 Approval date: 02-11-14

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<i>Javid Amirazodi</i> REGISTERED ELECTRICAL ENGINEER			02-21-14 DATE		
3-24-14			PLANS APPROVAL DATE		
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ZONE	LOCATION	QUANTITY	DEVICES DESCRIPTION
	AREA 1 EE1-5.1		
100	VEHICLE ACCESS ROLL-UP DOOR #1	1	MAGNETIC CONTACT SWITCH-VEHICLE
101	DOUBLE PEDESTRIAN ACCESS DOOR #2	1	MECHANICAL DOOR HARDWARE
		1	MAGNETIC CONTACT SWITCH PEDESTRIAN
		1	LOCK GUARD
102	ROOM 100	1	GLASS BREAK DISCRIMINATOR
103	ROOM 100	1	COMBINATION MOTION DETECTOR-MICROWAVE/PASSIVE INFRARED
104	ROOM 100	1	COMBINATION MOTION DETECTOR-MICROWAVE/PASSIVE INFRARED
105	ROOM 100	1	GLASS BREAK DISCRIMINATOR
106	VEHICLE ACCESS ROLL-UP DOOR #6	1	MAGNETIC CONTACT SWITCH-VEHICLE
107	SINGLE PEDESTRIAN DOOR #5	1	DIGITAL CARD READER
		1	MAGNETIC CONTACT SWITCHES-PEDESTRIAN
		1	ELECTRIFIED DOOR HINGE
		1	ELECTROMECHANICAL LOCK
		1	LOCK GUARD
		1	DIGITAL KEYPAD DEACTIVATE ZONES: 100-101-102-103-104-105-106-107-108-109-110-111-112-113-114 115-116-117-118-119-120-121-122
108	DOUBLE PEDESTRIAN DOOR #21	1	DIGITAL CARD READER
		1	MAGNETIC CONTACT SWITCHES-PEDESTRIAN
		1	ELECTRIFIED DOOR HINGE
		1	ELECTROMECHANICAL LOCK
		1	LOCK GUARD
		1	DIGITAL KEYPAD DEACTIVATES ZONE: 100-101-102-103-104-105-106-107-108-109-110-112-113-114 115-116-117-118-119-120-121-122
109	VEHICLE ACCESS ROLL-UP DOOR #23	1	MAGNETIC CONTACT SWITCH-VEHICLE
110	ROOM #115	1	GLASS BREAK DISCRIMINATOR
111	SINGLE PEDESTRIAN DOOR #24	1	DIGITAL CARD READER
		1	MAGNETIC CONTACT SWITCHES-PEDESTRIAN
		1	ELECTRIFIED DOOR HINGE
		1	ELECTROMECHANICAL LOCK
112	ROOM #115	1	COMBINATION MOTION DETECTOR-MICROWAVE/PASSIVE INFRARED
		1	MAGNETIC CONTACT SWITCH-VEHICLE
		1	MAGNETIC CONTACT SWITCH-VEHICLE
		1	DIGITAL CARD READER
113	VEHICLE ACCESS ROLL-UP DOOR #27	1	MAGNETIC CONTACT SWITCHES-PEDESTRIAN
		1	ELECTRIFIED DOOR HINGE
		1	ELECTROMECHANICAL LOCK
114	VEHICLE ACCESS ROLL-UP DOOR #20	1	LOCK GUARD
		1	MAGNETIC CONTACT SWITCHES-PEDESTRIAN
		1	ELECTRIFIED DOOR HINGE
115	SINGLE PEDESTRIAN DOOR #17	1	ELECTROMECHANICAL LOCK
		1	LOCK GUARD
		1	MAGNETIC CONTACT SWITCHES-PEDESTRIAN

ZONE	LOCATION	QUANTITY	DEVICES DESCRIPTION
116	ROOM #108	1	COMBINATION MOTION DETECTOR-MICROWAVE/PASSIVE INFRARED
117	VEHICLE ACCESS ROLL-UP DOOR #18	1	MAGNETIC CONTACT SWITCH-VEHICLE
118	ROOM #108	1	GLASS BREAK DISCRIMINATOR
119	DOUBLE PEDESTRIAN DOOR #15	1	DIGITAL CARD READER
		1	MAGNETIC CONTACT SWITCHES-PEDESTRIAN
		1	ELECTRIFIED DOOR HINGE
		1	ELECTROMECHANICAL LOCK
		1	LOCK GUARD
		1	DIGITAL KEYPAD DEACTIVATE ZONES: 100-101-102-103-104-105-106-107-108-109-110-112-113-114 115-116-117-118-119-120-121-122
120	DOUBLE PEDESTRIAN ACCESS DOOR #14	1	MECHANICAL DOOR HARDWARE
		1	MAGNETIC CONTACT SWITCH PEDESTRIAN
		1	LOCK GUARD
	AREA 2 EE1-5-2		
121	SINGLE PEDESTRIAN ACCESS DOOR #30	1	DIGITAL CARD READER
		1	MAGNETIC CONTACT SWITCHES-PEDESTRIAN
		1	ELECTRIFIED DOOR HINGE
		1	ELECTROMECHANICAL LOCK
		1	LOCK GUARD
122	ROOM #119	1	DIGITAL KEYPAD DEACTIVATE ZONES: 120-121-123-124-125-126-127-128-129-130-131-132-133-134 135-136-137-138-139-140-141
		1	COMBINATION MOTION DETECTOR-MICROWAVE/PASSIVE INFRARED
		1	MAGNETIC CONTACT SWITCHES-VEHICLE
		1	GLASS BREAK DISCRIMINATOR
123	VEHICLE ACCESS ROLL-UP DOOR #31	1	MAGNETIC CONTACT SWITCHES-VEHICLE
124	ROOM #119	1	GLASS BREAK DISCRIMINATOR
125	VEHICLE ACCESS ROLL-UP DOOR #33	1	MAGNETIC CONTACT SWITCHES-VEHICLE
126	ROOM #120A	1	GLASS BREAK DISCRIMINATOR
127	VEHICLE ACCESS ROLL-UP DOOR #34	1	MAGNETIC CONTACT SWITCHES-VEHICLE
128	ROOM #120A	1	GLASS BREAK DISCRIMINATOR
129	SINGLE PEDESTRIAN ACCESS DOOR #35	1	MECHANICAL DOOR HARDWARE
		1	MAGNETIC CONTACT SWITCH PEDESTRIAN
		1	LOCK GUARD
130	VEHICLE ACCESS ROLL-UP DOOR #39	1	MAGNETIC CONTACT SWITCHES-VEHICLE
131	SINGLE PEDESTRIAN ACCESS DOOR #40	1	MECHANICAL DOOR HARDWARE
		1	MAGNETIC CONTACT SWITCH PEDESTRIAN
		1	LOCK GUARD
132	VEHICLE ACCESS ROLL-UP DOOR #41	1	MAGNETIC CONTACT SWITCHES-VEHICLE
133	ROOM #120A	1	GLASS BREAK DISCRIMINATOR
134	VEHICLE ACCESS ROLL-UP DOOR #42	1	MAGNETIC CONTACT SWITCHES-VEHICLE
135	ROOM #120A	1	GLASS BREAK DISCRIMINATOR

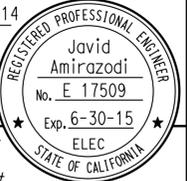
APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY <i>Javid Amirazodi</i>	CHECKED <i>Jaswinder Gill</i>		DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE INTRUSION ALARM AND ACCESS SYSTEM ZONING SCHEDULE 1	SHEET EE1-5.4	
	DETAILS BY <i>Dali Zhou</i>			CHECKED <i>Javid Amirazodi</i>			POST MILE
	QUANTITIES BY <i>Javid Amirazodi</i>			CHECKED <i>Jaswinder Gill</i>			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	
TAEWW Imperial - CCSC Rev. 01/13					10-25-13 2-21-14		

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30-APR-2014 09:53

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<i>Javid Amirazodi</i> REGISTERED ELECTRICAL ENGINEER			02-21-14 DATE		
3-24-14			PLANS APPROVAL DATE		
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ZONE	LOCATION	QUANTITY	DEVICES DESCRIPTION
136	VEHICLE ACCESS ROLL-UP DOOR #43	1	MAGNETIC CONTACT SWITCHES-VEHICLE
137	ROOM #121	1	GLASS BREAK DISCRIMINATOR
138	SINGLE PEDESTRIAN ACCESS DOOR #44	1	MECHANICAL DOOR HARDWARE
		1	MAGNETIC CONTACT SWITCH PEDESTRIAN
		1	LOCK GUARD
		1	DIGITAL KEYPAD DEACTIVATES ZONES: 120-121-123-124-125-126-127-128-129-130-131-132-133-134 135-136-137-138-139-140-141
139	DOUBLE PEDESTRIAN ACCESS DOOR #45	1	MECHANICAL DOOR HARDWARE
		1	MAGNETIC CONTACT SWITCH PEDESTRIAN
		1	LOCK GUARD
AREA 3 EE1-5-3			
140	VEHICLE ACCESS ROLL-UP DOOR #46	1	MAGNETIC CONTACT SWITCHES-VEHICLE
141	SINGLE PEDESTRIAN ACCESS DOOR #47	1	MECHANICAL DOOR HARDWARE
		1	MAGNETIC CONTACT SWITCH PEDESTRIAN
		1	LOCK GUARD
142	ROOM #123	1	COMBINATION MOTION DETECTOR-MICROWAVE/PASSIVE INFRARED
143	ROOM #125	1	GLASS BREAK DISCRIMINATOR
144	DOUBLE PEDESTRIAN ACCESS DOOR #49	1	DIGITAL CARD READER
		1	MAGNETIC CONTACT SWITCHES-PEDESTRIAN
		1	ELECTRICAL POWER TRANSFER HINGE
		1	PANIC DEVICE
		1	DIGITAL KEYPAD DEACTIVATE ZONES: 140-141-142-143-144-145-146-147-148-149-150-151-152-153 154-155-156-157-158-159-160-161-162
145	ROOM #126	1	COMBINATION MOTION DETECTOR-MICROWAVE/PASSIVE INFRARED
146	SINGLE PEDESTRIAN ACCESS DOOR #51	1	DIGITAL CARD READER
		1	MAGNETIC CONTACT SWITCH PEDESTRIAN
		1	ELECTRIFIED DOOR HINGE
		1	ELECTROMECHANICAL LOCK
		1	LOCK GUARD
		1	DIGITAL KEYPAD DEACTIVATES ZONE: 140-141-142-143-144-145-146-147-148-149-150-151-152-153 154-155-156-157-158-159-160-161-162
147	ROOM #129	1	COMBINATION MOTION DETECTOR-MICROWAVE/PASSIVE INFRARED
148	DOUBLE PEDESTRIAN ACCESS DOOR #60	1	MECHANICAL DOOR HARDWARE
		1	MAGNETIC CONTACT SWITCH PEDESTRIAN
		1	LOCK GUARD
149	SINGLE PEDESTRIAN ACCESS DOOR #61	1	MECHANICAL DOOR HARDWARE
		1	MAGNETIC CONTACT SWITCH PEDESTRIAN
		1	LOCK GUARD
		1	PANIC DEVICE
150	SINGLE PEDESTRIAN ACCESS DOOR #63	1	MECHANICAL DOOR HARDWARE
		1	MAGNETIC CONTACT SWITCH PEDESTRIAN

ZONE	LOCATION	QUANTITY	DEVICES DESCRIPTION
		1	LOCK GUARD
151	VEHICLE ACCESS ROLL-UP DOOR #64	1	MAGNETIC CONTACT SWITCHES-VEHICLE
152	ROOM #134B	1	GLASS BREAK DISCRIMINATOR
153	SINGLE PEDESTRIAN ACCESS DOOR #67	1	MECHANICAL DOOR HARDWARE
		1	MAGNETIC CONTACT SWITCH PEDESTRIAN
		1	LOCK GUARD
		1	PANIC DEVICE
154	SINGLE PEDESTRIAN DOOR #69	1	DIGITAL CARD READER
		1	MAGNETIC CONTACT SWITCH PEDESTRIAN
		1	ELECTRIFIED DOOR HINGE
		1	ELECTROMECHANICAL LOCK
		1	LOCK GUARD
		1	DIGITAL KEYPAD DEACTIVATE ZONES: 140-141-142-143-144-145-146-147-148-149-150-151-152-153 154-155-156-157-158-159-160-161-162
155	ROOM #136	1	COMBINATION MOTION DETECTOR-MICROWAVE/PASSIVE INFRARED
156	VEHICLE ACCESS ROLL-UP DOOR #70	1	MAGNETIC CONTACT SWITCHES-VEHICLE
157	ROOM #136	1	GLASS BREAK DISCRIMINATOR
158	SINGLE PEDESTRIAN DOOR #59	1	DIGITAL CARD READER
		1	MAGNETIC CONTACT SWITCH PEDESTRIAN
		1	ELECTRIFIED DOOR HINGE
		1	ELECTROMECHANICAL LOCK
		1	LOCK GUARD
		1	DIGITAL KEYPAD DEACTIVATE ZONES: 140-141-142-143-144-145-146-147-148-149-150-151-152-153 154-155-156-157-158-159-160-161-162
159	DOUBLE PEDESTRIAN ACCESS DOOR #71	1	MECHANICAL DOOR HARDWARE
		1	MAGNETIC CONTACT SWITCH PEDESTRIAN
		1	LOCK GUARD
160	ROOM #138	1	COMBINATION MOTION DETECTOR-MICROWAVE/PASSIVE INFRARED
161	SINGLE PEDESTRIAN DOOR #55	1	DIGITAL CARD READER
		1	ELECTRIFIED DOOR HINGE
		1	ELECTROMECHANICAL LOCK
162	SINGLE PEDESTRIAN DOOR #56	1	DIGITAL CARD READER
		1	ELECTRIFIED DOOR HINGE
		1	ELECTROMECHANICAL LOCK

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DESIGN	BY	Javid Amirazodi	CHECKED	Jaswinder Gill	BRIDGE No. 33M5785	POST MILE	SHEET EE1-5.5	
	DETAILS	BY	Dali Zhou	CHECKED				Javid Amirazodi
	QUANTITIES	BY	Javid Amirazodi	CHECKED				Jaswinder Gill
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION					DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN		SFOBB WAREHOUSE INTRUSION ALARM AND ACCESS SYSTEM ZONING SCHEDULE 2	
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GENERAL NOTES: (Applicable to All Fire Alarm System Plan Sheets)

- A. Conduit and conductors system for the Fire Alarm System is not shown. See Special Provisions for requirements.
- B. Location of fire alarm devices are shown arbitrary only. Exact location and number of devices must be deferred for approval by the State Fire Marshal upon submittal of shop drawings.
- C. The Fire Alarm System must conform to the 2010 California Electrical Code (CEC) Article 760 and the 2010 California Fire Code (CFC) Section 105.7 and Section 907.
- D. Installation of the Fire Alarm System must not start until detailed Plans and Specifications, including California Fire Marshal listing numbers for each component of the system, have been approved by the Engineer and the California State Fire Marshal.
- E. Upon completion of the installation of the Fire Alarm System, a satisfactory test of the entire system must be made in the presence of the authority having jurisdiction.
- F. Electrical conduits in rooms 125, 126, 127, 129, 130, 131 and 132 must be concealed in ceiling or walls. Electrical conduits in other rooms may be exposed.
- G. Install adequate number of junction boxes as required, without additional cost to the State. Junction boxes must be sized as required to accommodate number of cables/conductors.
- H. Underground conduits entering the building from outside and within the building must be installed below the structural primary/intermediate grade beams. For location of structural primary/intermediate grade beams, underground conduits stub up, and penetration details through floor/beams, refer to Structural Plan sheets.

- I. Detectors must not be installed until the cleanup of all trades is completed and final as per 2013 NFPA 72 Section 17.7.1.11.
- J. Before requesting final approval of the installation, provide a written statement to the State Fire Marshal to the effect that the system has been installed in accordance with approved plans and completely tested in accordance with manufacturer's specifications and appropriate NFPA requirements. (2010 NFPA 72 Section 10.18.1.3)
- K. All base elbows and vertical risers through concrete slab must be PVC coated rigid steel conduit. Wrap joints in contact with soil with two layers of 20 mil thick pipe wrapping tape.
- L. Room numbers 111, 118, 134A and 135 are Class 1, Division 1 rated area. All equipment and wiring methods in these area must comply with Class 1, Division 1 requirements of the 2010 California Electrical Code (CEC). Submit complete installation details including but not limited to conduit routes to all equipment, conduit seal locations and equipment mounting height details, etc. for approval to the Engineer, prior to installation. All conduits must be rigid steel conduit.
- M. For exact location of Fire Water Supply Risers, see Mechanical plans.
- N. The areas within 3 feet of spray booth, blast booth, mix booth, and hazardous material storage (rooms 111, 118, 134A and 135) openings and above spray booth, blast booth, mix booth are Class 1 or Class 2, division 2 area. All equipment and wiring methods in this area must comply with Class 1 or Class 2, Division 2 requirements of the 2010 California Electrical Code (CEC). Submit complete installation details including but not limited to conduit route to all equipment, conduit seal locations and equipment mounting height details, etc. for approval to the Engineer, prior to installation. All conduits must be rigid steel conduit.
- O. All conduit systems above blast booth, spray booth and mix booth must be rigid steel conduit type.

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 INGRID P. CASTANO
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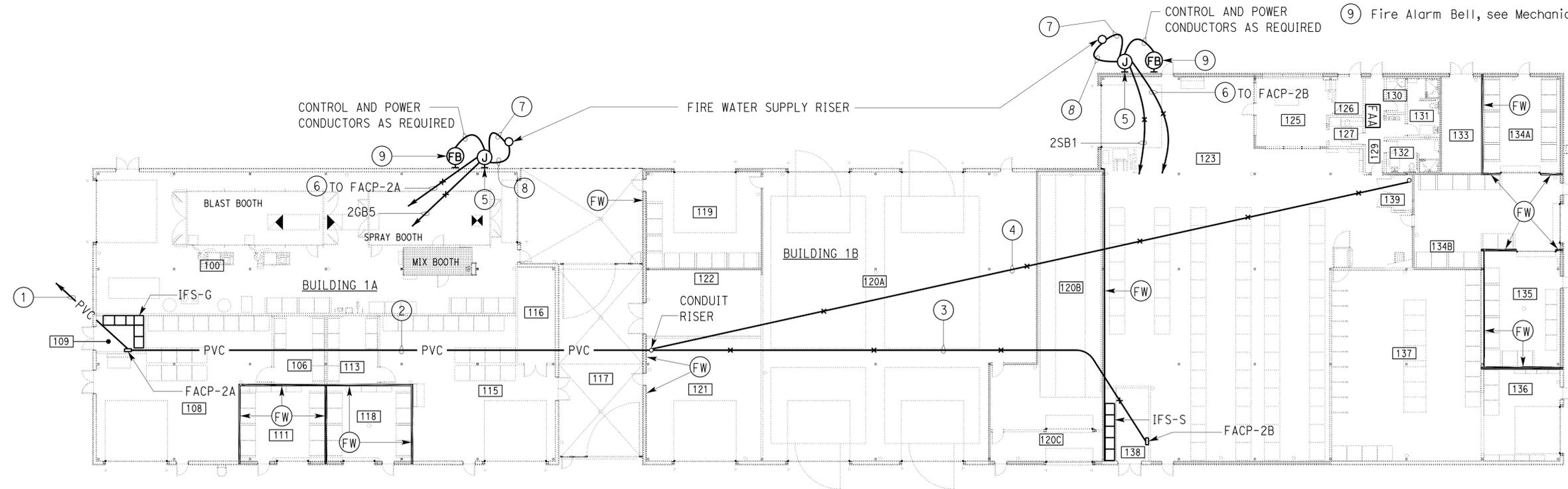
3-24-14
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Javid Amirazodi
 No. E 17509
 Exp. 6-30-15
 ELEC
 STATE OF CALIFORNIA

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NOTES:

- ① 4"C, control cables as required for Fire Alarm System to existing Communication Vault. For continuation, see EEO-0.4.
- ② -2"C, control cables as required by the Fire Alarm Control Panel manufacturer.
- ③ 2"C, control cables as required by the Fire Alarm Control Panel manufacturer.
- ④ 2"C, PT. Terminate conduit next to IT Communication Rack, 12" below ceiling. For exact location of IT Communication Rack, see communication plans.
- ⑤ Junction box for supervisory switch and flow switch. Mount next to the Fire Riser.
- ⑥ 1"C, control cables/conductors as required.
- ⑦ To flow switch on the fire water supply riser. Provide 1/2"C, MC, with wires and/or cables as recommended by the Fire Alarm Control Panel manufacturer. For fire water supply riser details, see Mechanical plans.
- ⑧ To supervisory switch on the fire water supply riser. Provide 1/2"C, MC, with wires and/or cables as recommended by the Fire Alarm Control Panel manufacturer. For fire water supply riser details, see Mechanical plans.
- ⑨ Fire Alarm Bell, see Mechanical plan sheets for exact location.



SYMBOL	DESCRIPTION
FAA	FIRE ALARM ANNUNCIATOR
A/V	AUDIO/VISUAL ALARM DEVICE
Heat	HEAT DETECTOR
Smoke	SMOKE DETECTOR
K	FIRE DEPARTMENT KEY BOX
P	MANUAL PULL STATION

PLAN
 1/16" = 1'-0"

APPROVED FOR ELECTRICAL WORK ONLY

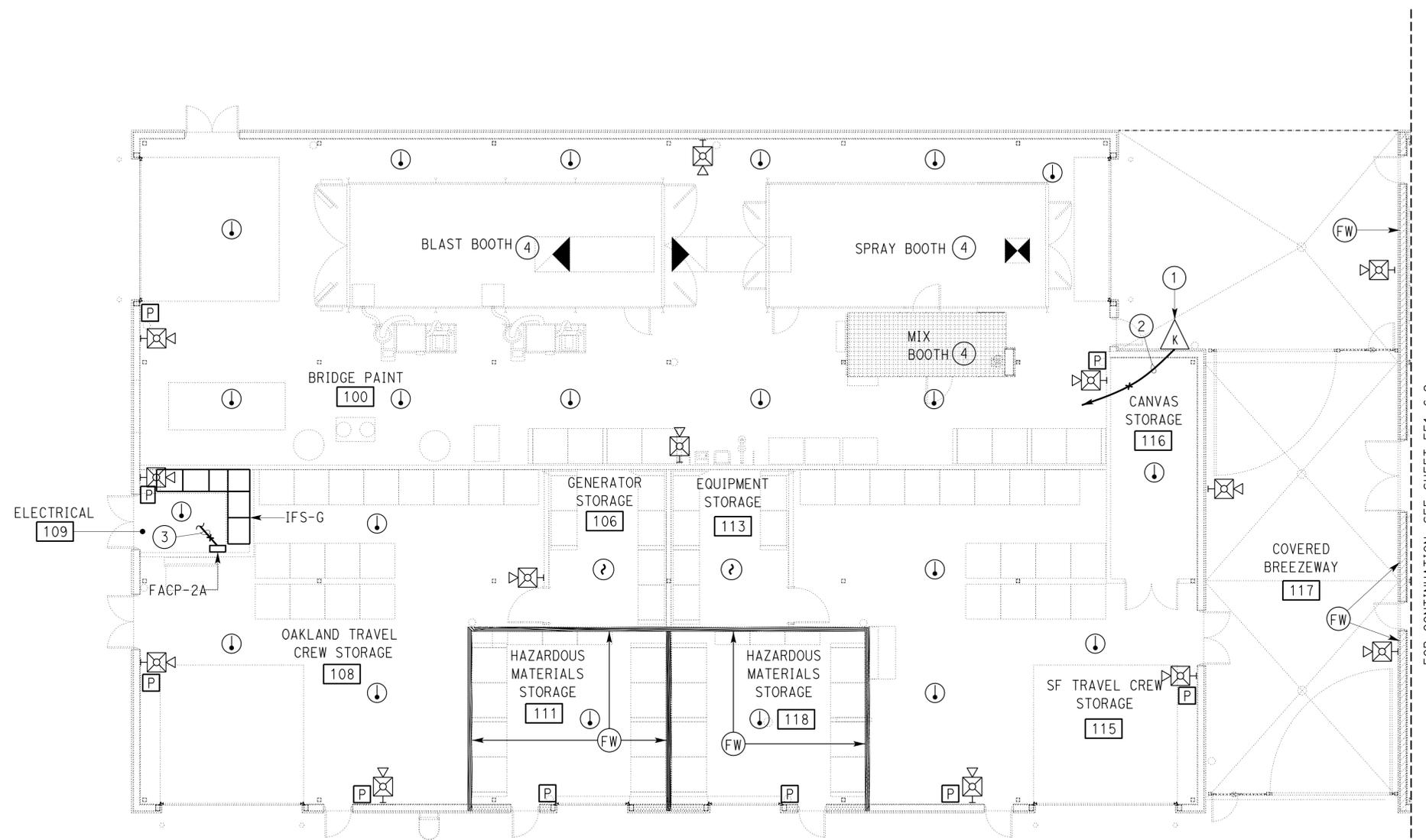
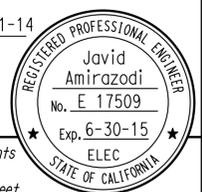
DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 3/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785 POST MILE
--	--	---------------------------------

SFOBB WAREHOUSE		SHEET EE1-6.0
FIRE ALARM SYSTEM GENERAL NOTES		

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: *Javid Amirazodi*
 INGRID P. ICASIANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		352	371
Javid Amirazodi			02-21-14		
REGISTERED ELECTRICAL ENGINEER			DATE		
3-24-14			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.					



FOR CONTINUATION, SEE SHEET EE1-6.2

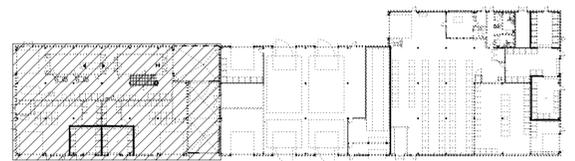
PLAN
 1/8" = 1'-0"

GENERAL NOTE:

- A. All fire alarm conduit/conductor system on this sheet must be routed to the FACP-2A inside the Electrical Room 109.

NOTES:

- ① Fire department knock box must be UL listed, 1/4" thick stainless steel case, with an exterior hinged door and interior compartment which can hold up to 2 keys and 100% welded with maximum width of 4". Knock box must be complete with an alarm tamper switch. Mount the knock box recessed into the exterior wall panels at least 6 feet from the finished floor.
- ② 1"C, control cables as required from tamper switch inside Knock box to the FACP-2A.
- ③ 1/2"C, 2#12, 1#12G (2GB1) to junction box. For continuation, see EE1-5.1.
- ④ Provide complete Fire Detection and Fire Suppression System for this booth as required per NFPA 13, NFPA 33 and NFPA 72. In addition, provisions must be made for communicating between equipment inside the booth and building Fire Alarm System Control Panel as required. Installation of the Fire Detection and Fire Suppression System must not start until detailed Plans and Specifications including California Fire Marshal listing numbers of each component of the system have been approved by the Engineer and the California State Fire Marshal. For additional information, refer to corresponding projects Special Provisions for booth specification. Coordinate with booth manufacturer and other disciplines for providing and installation of Fire Detection and Fire Suppression system as required.



KEY PLAN

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 3/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

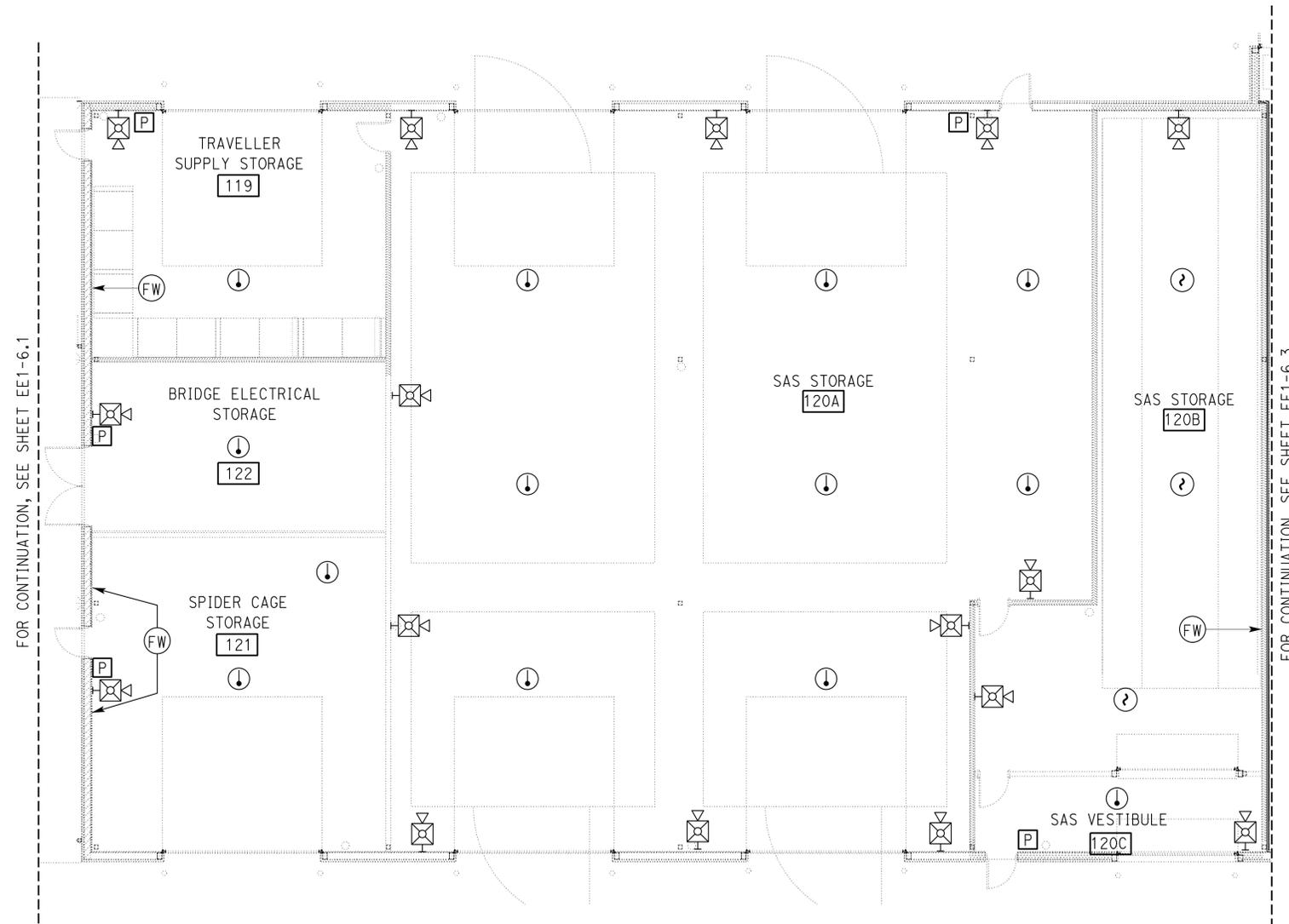
BRIDGE No.	33M5785		SHEET EE1-6.1
POST MILE	BUILDING 1A	FIRE ALARM SYSTEM PLAN 1	

GENERAL NOTE:

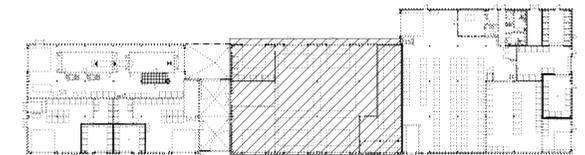
A. All fire alarm conduit/conductor system on this sheet must be routed to the FACP-2B inside the Electrical Room 138.

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: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		353	371
<i>Javid Amirazodi</i> REGISTERED ELECTRICAL ENGINEER			02-21-14 DATE	REGISTERED PROFESSIONAL ENGINEER Javid Amirazodi No. E 17509 Exp. 6-30-15 ELEC STATE OF CALIFORNIA	
3-24-14 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.		



PLAN
 1/8" = 1'-0"



KEY PLAN

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY	Javid Amirazodi	CHECKED	Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	SFOBB WAREHOUSE		SHEET EE1-6.2	
	DETAILS	BY	Ed D. Tapalla 3/13	CHECKED			Javid Amirazodi	33M5785	BUILDING 1B		FIRE ALARM SYSTEM PLAN 2
	QUANTITIES	BY	Javid Amirazodi	CHECKED			Jaswinder Gill	POST MILE			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
P:\dist_04\0413000133_sfobb_maint_warehouse\elec\files\ones\FINAL EXPEDITE (HOPEFULLY)\ee1_6.2.dgn											

GENERAL NOTE:

A. All fire alarm conduit/conductor system on this sheet must be routed to the FACP-2B inside the Electrical Room 138.

NOTES:

- ① Fire department key box must be UL listed, 1/4" thick stainless steel case, with an exterior hinged door and interior compartment which can hold up to 2 keys and 100% welded with maximum width of 4". Key box must be complete with an alarm tamper switch. Mount the key box recessed into the exterior wall panels at least 6 feet from the finished floor.
- ② 1" C, control cables from tamper switch inside Key box to the FACP-2B as required.

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: *Ingrit P. Icastiano*
 INGRIT P. ICASIANO
 Approval date: 02-11-14

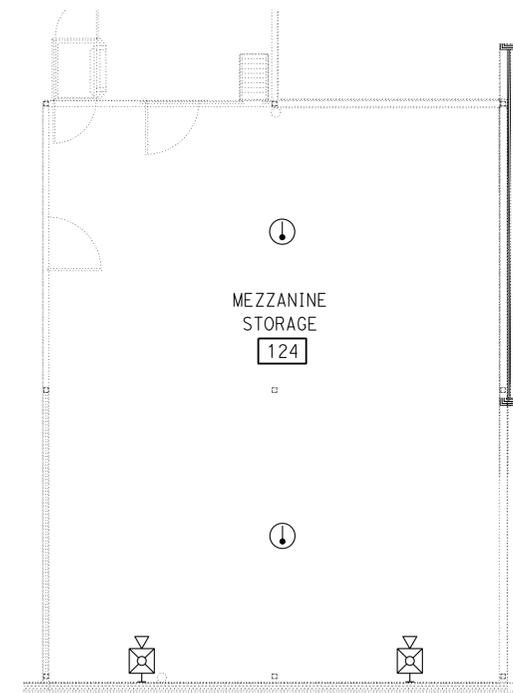
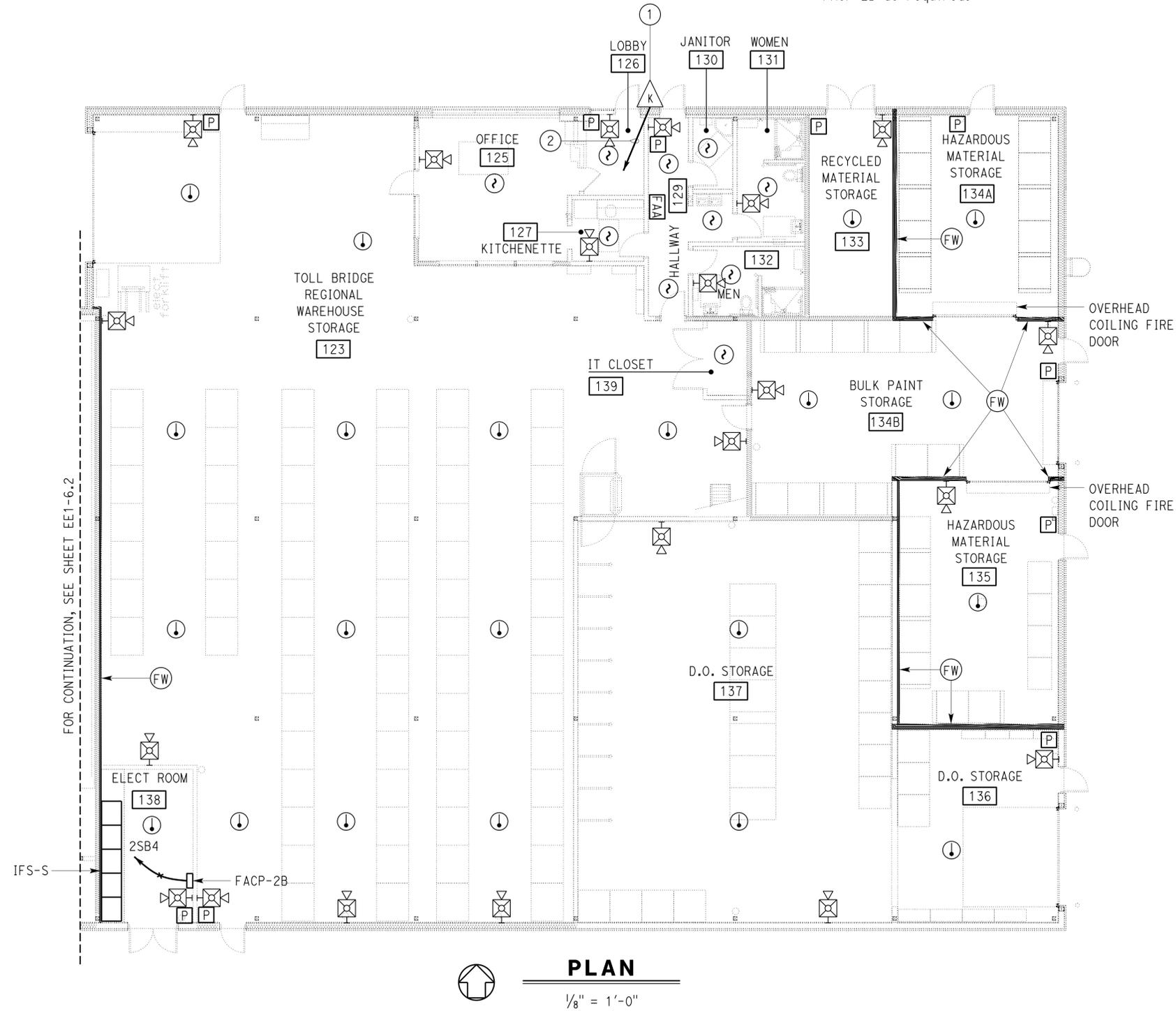
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		354	371

Javid Amirazodi 02-21-14
 REGISTERED ELECTRICAL ENGINEER DATE

3-24-14
 PLANS APPROVAL DATE

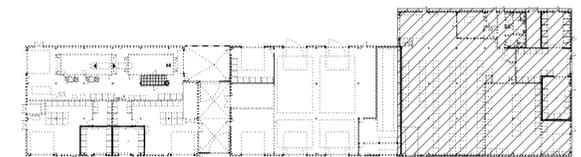
Javid Amirazodi
 No. E 17509
 Exp. 6-30-15
 ELEC
 STATE OF CALIFORNIA

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MEZZANINE

1/8" = 1'-0"



KEY PLAN

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY Javid Amirazodi	CHECKED Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE		SHEET EE1-6.3
				POST MILE	BUILDING 1B	FIRE ALARM SYSTEM PLAN 3	
DETAILS BY Ed D. Tapalla 3/13	CHECKED Javid Amirazodi	UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
QUANTITIES BY Javid Amirazodi	CHECKED Jaswinder Gill	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		3-25-13 10-28-13 2-21-14		SHEET OF	

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		355	371

Javid Amirazodi
REGISTERED ELECTRICAL ENGINEER
DATE: 02-21-14
PLANS APPROVAL DATE: 3-24-14

Javid Amirazodi
REGISTERED PROFESSIONAL ENGINEER
No. E 17509
Exp. 6-30-15
ELEC
STATE OF CALIFORNIA

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

GENERAL NOTES:

- A. Install adequate number of junction boxes as required, without additional cost to the State. Junction boxes must be sized as required to accommodate number of cables/conductors.
- B. Electrical conduits in rooms 125, 126, 127, 129, 130, 131 and 132 must be concealed in ceiling or walls. Electrical conduits in other rooms may be exposed.
- C. All conduit stub ups shall be 12" above finished floor or 12" below ceiling. Provide conduit bushings on all conduits.
- D. Submit all pertinent details to the Engineer for approval prior to installation.
- E. Viewing direction of each camera must be per Engineer's recommendation in the field.
- F. All base elbows and vertical risers through concrete slab must be PVC coated rigid steel conduit. Wrap joints in contact with soil with two layers of 20 mil thick pipe wrapping tape.
- G. Underground conduits entering the building from outside and within the building must be installed below the structural primary/intermediate grade beams. For location of structural primary/intermediate grade beams, underground conduits stub up, and penetration details through floor/beams, refer to Structural Plan sheets.

- H. Provide power supplies, fiber optic media converters, optical interfaces, pole/wall/parapet/ceiling mounted adaptors and other equipment as required by the CCTV system manufacturer's recommendation and required wiring connections for proper operation of the CCTV system, at no additional cost to the State.
- I. Fiber optic cable type and its characteristics must be per CCTV system manufacturer's recommendations.
- J. Video cable must provide Power-over-Ethernet (PoE) to cameras.
- K. Submit complete CCTV system layout to the Engineer for approval, prior to installation.
- L. For room name schedule, see EE1-1.0.

The areas within 3 feet of spray booth, blast booth, mix booth, and hazardous material storage (rooms 111, 118, 134A and 135) openings and above spray booth, blast booth, mix booth are Class 1 or Class 2, division 2 area. All equipment and wiring methods in this area must comply with Class 1 or Class 2, Division 2 requirements of the 2010 California Electrical Code (CEC). Submit complete installation details including but not limited to conduit route to all equipment, conduit seal locations and equipment mounting height details, etc. for approval to the Engineer, prior to installation. All conduits must be rigid steel conduit.

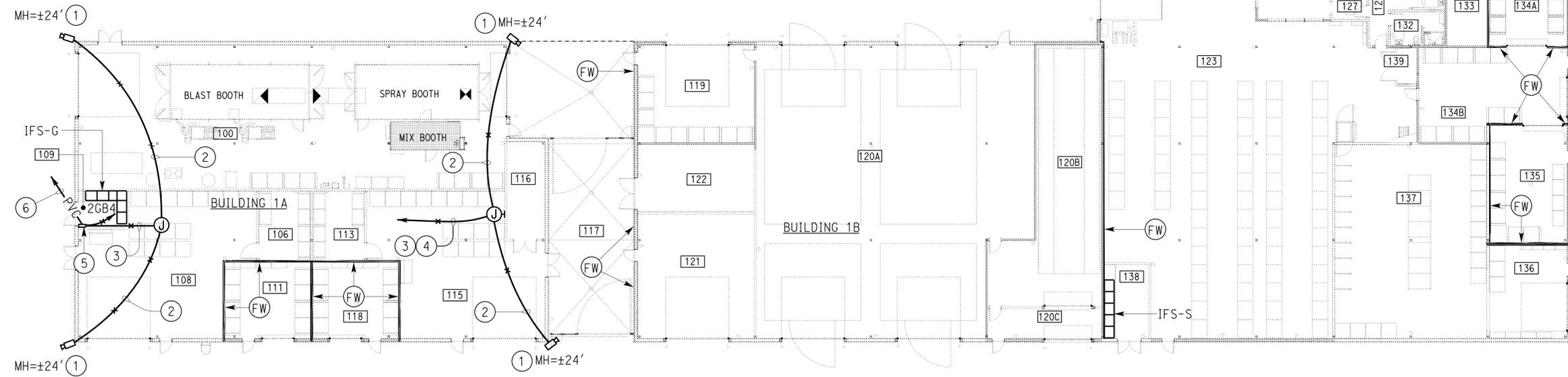
NOTES:

- ① Parapet mounted, outdoor, fixed, dome camera.
- ② 3/4"C, 1 video cable.
- ③ 1"C, 2 video cables.
- ④ To CCTV Network Switch in Electrical Room 109, terminate as required.
- ⑤ CCTV Network Switch. Provide and install CCTV Network Switch, wall mounting rack and all required hardware as recommended by the Network Switch manufacturer for proper operation of CCTV system at no additional cost to the State.
- ⑥ 4"C with one 2 strands MMFO cable to existing Communication Vault. For continuation, see EE0-0.4.

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: **Ingrid P. Icasiano**
INGRID P. ICASIANO
Approval date: 02-11-14



PLAN
1/16" = 1'-0"

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 3/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 33M5785
POST MILE

SFOBB WAREHOUSE
CCTV SYSTEM PLAN

REVISION DATES (PRELIMINARY STAGE ONLY)

3-25-13	10-28-13	2-21-14
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SHEET **EE1-7.1** OF

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		356	371

Javid Amirazodi
 REGISTERED ELECTRICAL ENGINEER
 DATE: 02-21-14
 PLANS APPROVAL DATE: 3-24-14
 No. E. 17509
 Exp. 6-30-15
 ELEC
 STATE OF CALIFORNIA

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GENERAL NOTES:

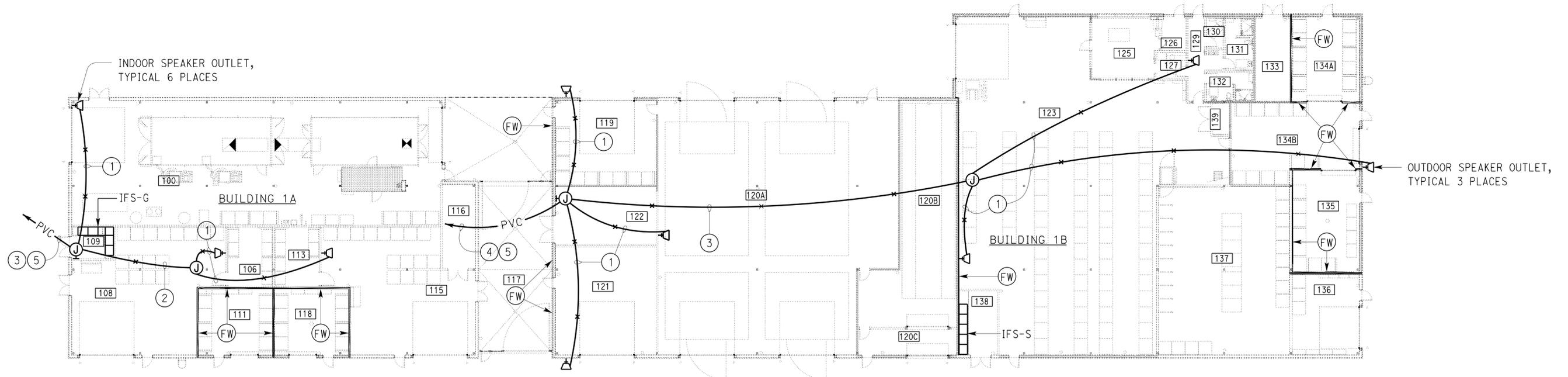
- A. All speaker cables from speaker outlets shown on this plan sheet must be routed to existing "Designated Space for Radio Racks" in existing Radio Room (second floor of existing Maintenance Complex) without splices. Provide 25 feet of additional length for each speaker cable inside existing Radio Room for future termination.
- B. Outdoor speaker outlet mounting height must be 10' and indoor speaker outlet mounting height must be 8' above finished floor.
- C. Electrical conduits in rooms 125, 126, 127, 129, 130, 131 and 132 must be concealed in ceiling or walls. Electrical conduits in other rooms may be exposed.
- D. Install adequate number of junction boxes as required, without additional cost to the State. Junction boxes must be sized as required to accommodate number of cables/conductors inside.
- E. Speaker cables must be 18 AWG, 2 conductors and tinned copper conductor type cable with PVC insulation and outer jacket.
- F. Speaker outlets must be 18 gauge cold rolled steel and undercoated to prevent resonance.
- G. Underground conduits entering the building from outside and within the building must be installed below the structural primary/intermediate grade beams. For location of structural primary/intermediate grade beams, underground conduits stub up, and penetration details through floor/beams, refer to Structural Plan sheets.

- H. All base elbows and vertical risers through concrete slab must be PVC coated rigid steel conduit. Wrap joints in contact with soil with two layers of 20 mil thick pipe wrapping tape.
- I. For room name schedule, see EE1-1.0.
- J. The areas within 3 feet of spray booth, blast booth, mix booth, and hazardous material storage (rooms 111, 118, 134A and 135) openings and above spray booth, blast booth, mix booth are Class 1 or Class 2, division 2 area. All equipment and wiring methods in this area must comply with Class 1 or Class 2, Division 2 requirements of the 2010 California Electrical Code (CEC). Submit complete installation details including but not limited to conduit route to all equipment, conduit seal locations and equipment mounting height details, etc. for approval to the Engineer, prior to installation. All conduits must be rigid steel conduit.

NOTES:

- ① 1"C, 1 speaker cable.
- ② 1"C, 2 speaker cables.
- ③ 1"C, 3 speaker cables.
- ④ 2"C, 6 speaker cables.
- ⑤ To existing Communication Vault.
For continuation, see EE0-04.

CALIFORNIA STATE FIRE MARSHAL
APPROVED
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 Reviewed by: *Ingrit P. Castano*
 INGRIT P. CASTANO
 Approval date: 02-11-14



PLAN
 1/16" = 1'-0"

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY	Javid Amirazodi	CHECKED	Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	33M5785	SFOBB WAREHOUSE SPEAKER OUTLET PLAN	SHEET EE1-8.1			
	DETAILS	BY	Ed D. Tapalla 3/13	CHECKED			Javid Amirazodi	POST MILE					
	QUANTITIES	BY	Javid Amirazodi	CHECKED			Jaswinder Gill						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
P:\dist_04\0413000133_sfobb_maint_warehouse\elec\files\ones\FINAL EXPEDITE (HOPEFULLY)\ee1_8.1.dgn													

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

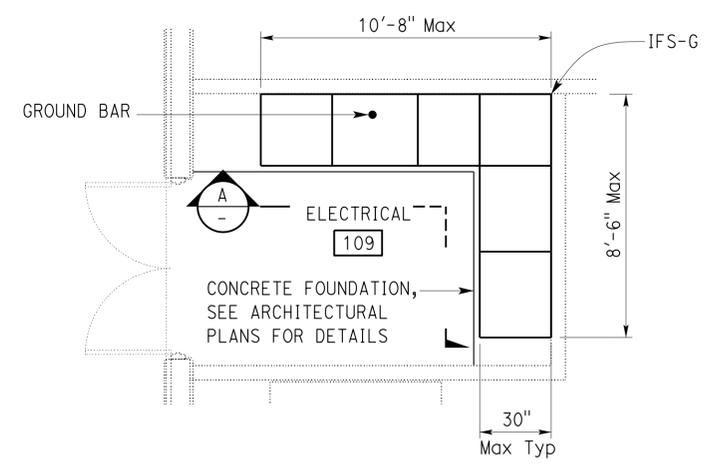
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		357	371

Javid Amirazodi 02-21-14
 REGISTERED ELECTRICAL ENGINEER DATE

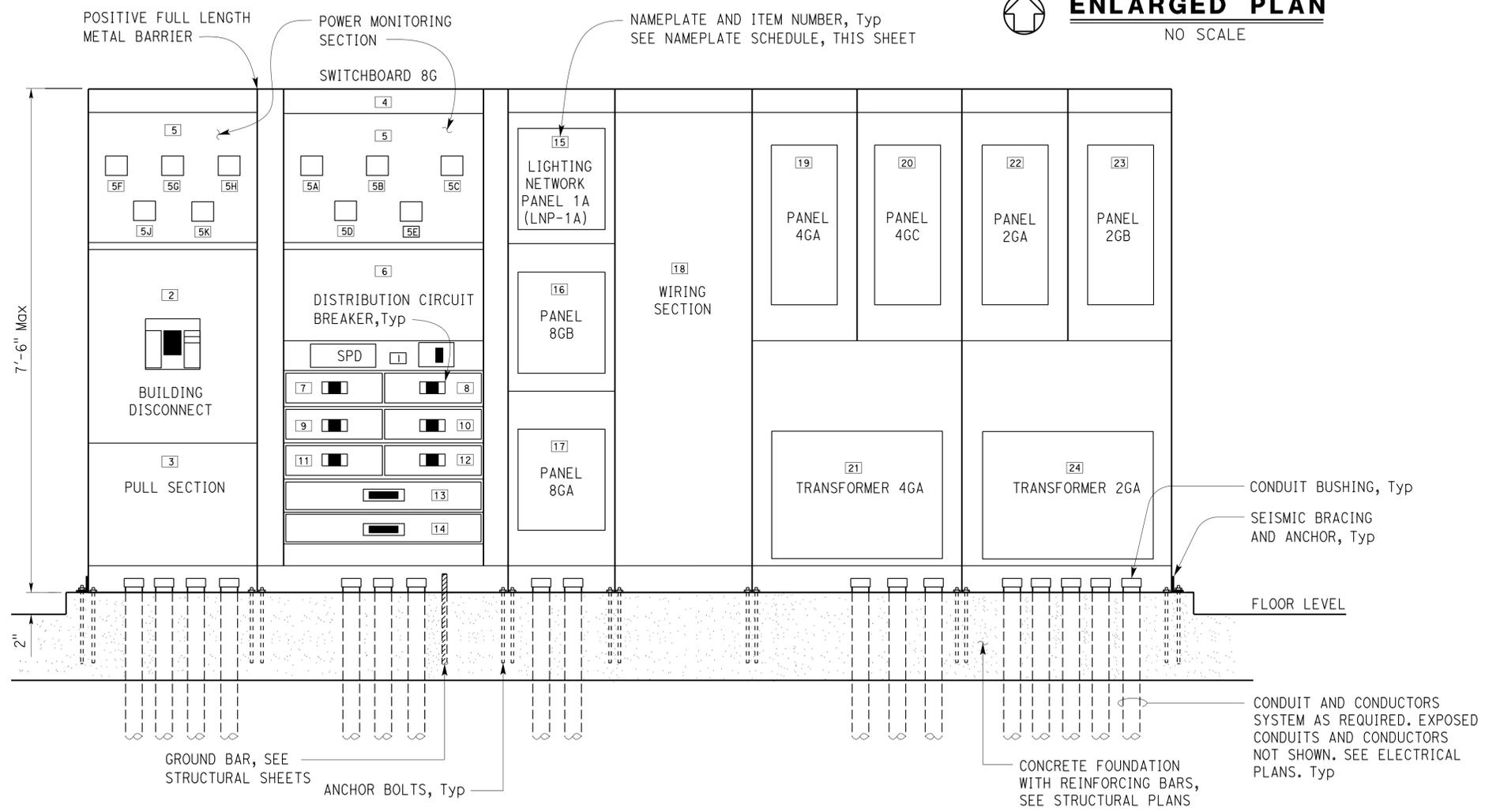
3-24-14
 PLANS APPROVAL DATE

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
 Javid Amirazodi
 No. E 17509
 Exp. 6-30-15
 ELEC
 STATE OF CALIFORNIA



ENLARGED PLAN
 NO SCALE



POSITIVE FULL LENGTH METAL BARRIER
 POWER MONITORING SECTION
 SWITCHBOARD 8G
 NAMEPLATE AND ITEM NUMBER, Typ SEE NAMEPLATE SCHEDULE, THIS SHEET

7'-6" Max
 2"

A IFS-G
 NO SCALE

NAMEPLATE SCHEDULE

ITEM No.	LETTER HEIGHT (inch)	INSCRIPTION
1	1	SURGE PROTECTION DEVICES SECTION
2	1	BUILDING DISCONNECT
3	1	PULL SECTION
4	1	SWITCHBOARD 8G
5	1	POWER MONITORING SECTION
5A	1/2	IFS-G POWER MONITORING
5B	1/2	AIR COMPRESSOR POWER MONITORING
5C	1/2	PANEL 8GB POWER MONITORING
5D	1/2	PANEL 4GA POWER MONITORING
5E	1/2	PANEL 2GA POWER MONITORING
5F	1/2	PANEL 8GA POWER MONITORING
5G	1/2	PANEL 4GB POWER MONITORING
5H	1/2	PANEL 2GC POWER MONITORING
5J	1/2	FUTURE 225A/3P LOAD POWER MONITORING
5K	1/2	FUTURE 100A/3P POWER MONITORING
6	1	DISTRIBUTION SECTION
7	1/2	SPARE
8	1/2	SPARE
9	1/2	PANEL 8GB DISCONNECT
10	1/2	TRANSFORMER 2GA DISCONNECT
11	1/2	PANEL 8GA DISCONNECT
12	1/2	TRANSFORMER 4GA DISCONNECT
13	1/2	AIR COMPRESSOR DISCONNECT
14	1/2	IFS-S DISCONNECT
15	1/2	LIGHTING NETWORK PANEL 1A
16	1/2	PANEL 8GB
17	1/2	PANEL 8GA
18	1	WIRING SECTION
19	1/2	PANEL 4GA
20	1/2	PANEL 4GC
21	1/2	TRANSFORMER 4GA
22	1/2	PANEL 2GA
23	1/2	PANEL 2GB
24	1/2	TRANSFORMER 2GA

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 3/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 33M5785
 POST MILE

SFOBB WAREHOUSE
 IFS-G DETAILS

SHEET EE1-9.1 OF

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *Ingrita P. Castano*
 INGRITA P. CASTANO
 Approval date: 02-11-14

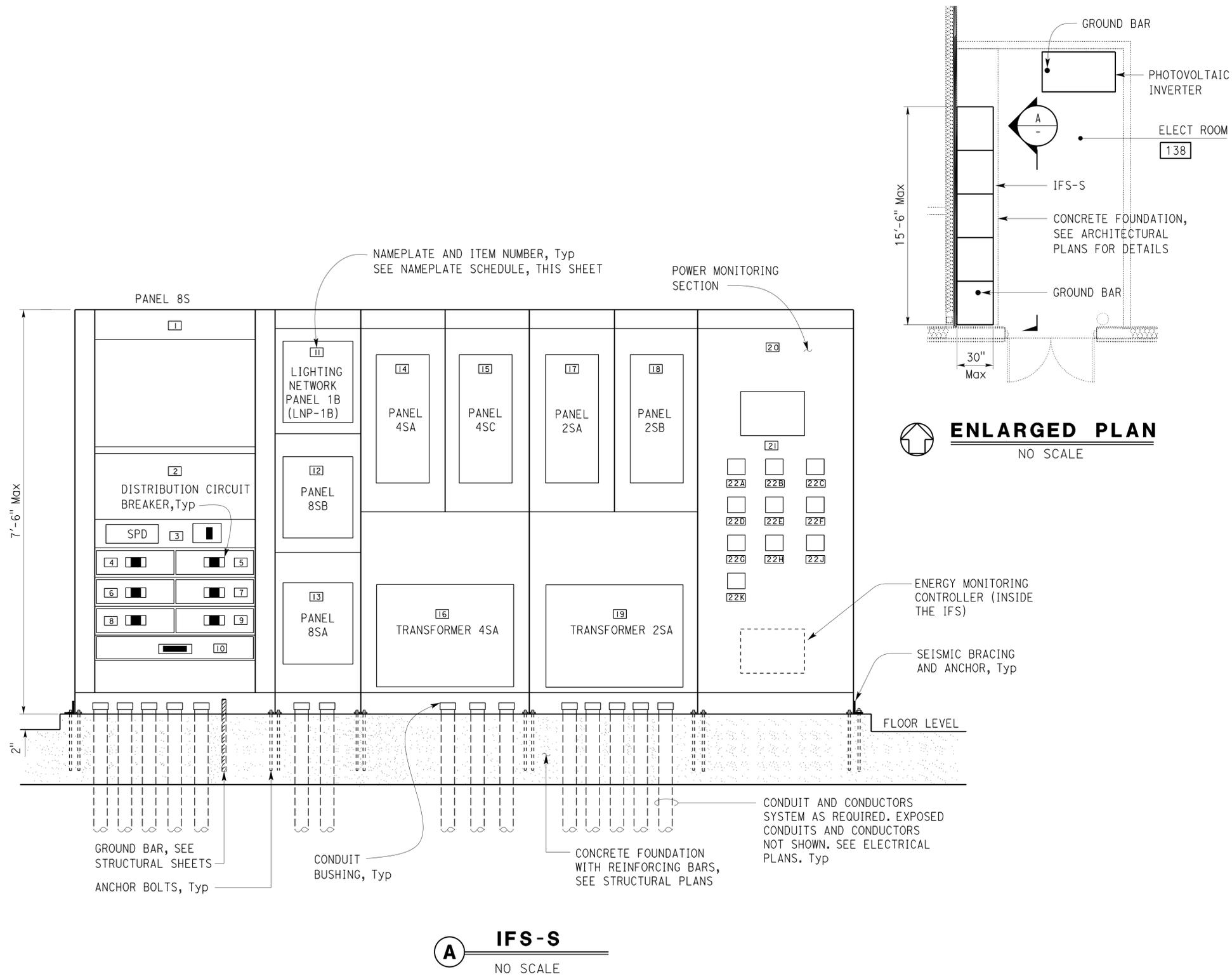
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		358	371

Javid Amirazodi 02-21-14
 REGISTERED ELECTRICAL ENGINEER DATE

3-24-14
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 Javid Amirazodi
 No. E 17509
 Exp. 6-30-15
 ELEC
 STATE OF CALIFORNIA



NAMEPLATE SCHEDULE

ITEM No.	LETTER HEIGHT (inch)	INSCRIPTION
1	1	PANEL 8S
2	1	DISTRIBUTION SECTION
3	1	SURGE PROTECTION DEVICES SECTION
4	1/2	SPARE
5	1/2	SPARE
6	1/2	PANEL 8SB DISCONNECT
7	1/2	TRANSFORMER 4SA DISCONNECT
8	1/2	PANEL 8SA DISCONNECT
9	1/2	TRANSFORMER 2SA DISCONNECT
10	1/2	MAIN CIRCUIT BREAKER
11	1/2	LIGHTING NETWORK PANEL 1B
12	1/2	PANEL 8SB
13	1/2	PANEL 8SA
14	1/2	PANEL 4SA
15	1/2	PANEL 4SC
16	1/2	TRANSFORMER 4SA
17	1/2	PANEL 2SA
18	1/2	PANEL 2SB
19	1/2	TRANSFORMER 2SA
20	1	POWER MONITORING SECTION
21	1	POWER MONITORING INTERFACE UNIT
22A	1/2	IFS-S POWER MONITORING
22B	1/2	PANEL 8SB POWER MONITORING
22C	1/2	PANEL 4SA POWER MONITORING
22D	1/2	PANEL 2SA POWER MONITORING
22E	1/2	PANEL 8SA POWER MONITORING
22F	1/2	PANEL 4SB POWER MONITORING
22G	1/2	PANEL 4SD POWER MONITORING
22H	1/2	FORKLIFT CHARGER POWER MONITORING
22J	1/2	FUTURE 70A/3P LOAD POWER MONITORING
22K	1/2	FUTURE 100A/3P LOAD POWER MONITORING

A IFS-S
 NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 3/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 33M5785
 POST MILE

SFOBB WAREHOUSE

IFS-S DETAILS

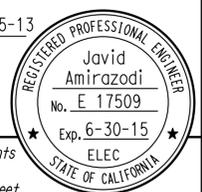
REVISION DATES (PRELIMINARY STAGE ONLY)

10-28-13	12-18-13	2-21-14
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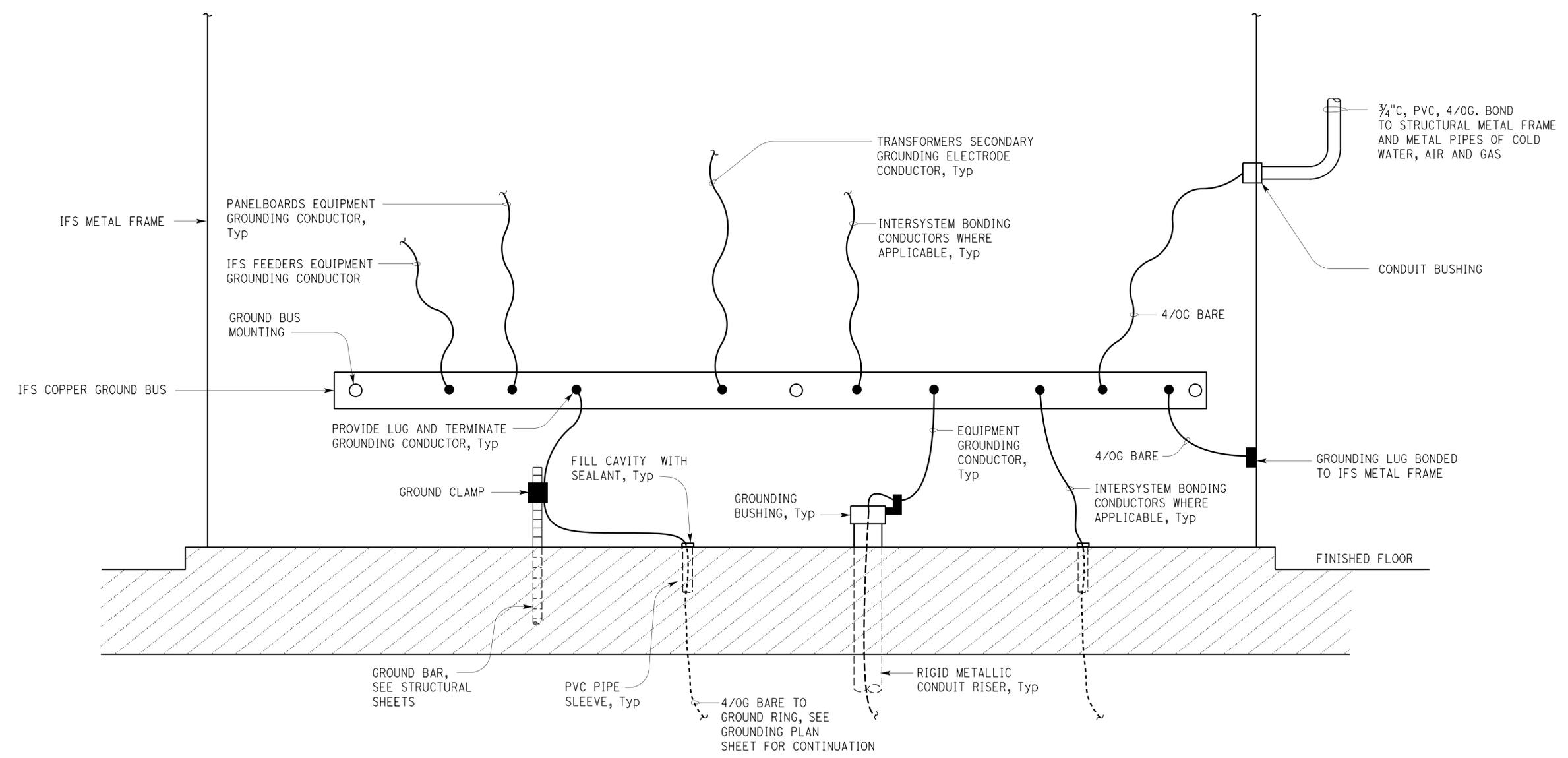
SHEET **EE1-9.2** OF

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: *Ingrid P. Icastano*
 INGRID P. ICASIANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		359	371
Javid Amirazodi			10-25-13		
REGISTERED ELECTRICAL ENGINEER			DATE		
3-24-14			PLANS APPROVAL DATE		
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GENERAL NOTE:
 A. Neutral and ungrounded conductors are not shown.



APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 3/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

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

BRIDGE No.	33M5785	SFOBB WAREHOUSE	SHEET EE1-9.3
POST MILE			
TYPICAL IFS GROUNDING			

MAIN: 1000 AMPERE, 3-POLE CB
VOLTS: 480/277 V, 3-PHASE, 4-WIRE

SWITCHBOARD 8G (BOTTOM FEED)
42 KA SCCR

FEEDER SIZE: 3 SETS OF 4"C, 4#600 kcmil,
1#600 kcmil G EACH
LOCATION: IFS-G IN ROOM 109

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: *Ingrid P. Icastano*
INGRID P. ICASTANO
Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		360	371

Javid Amirazodi 02-21-14
REGISTERED ELECTRICAL ENGINEER DATE

3-24-14
PLANS APPROVAL DATE

Javid Amirazodi
No. E 17509
Exp. 6-30-15
ELEC
STATE OF CALIFORNIA

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

DESCRIPTION	AMPERES			Brk	Ckt	A	B	C	Ckt	Brk	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
SPACE	-	-	-	-	1	•			2	-	-	-	SPACE	
					3		•		4	-	-	-		
					5			•	6	-	-	-		
SPARE	-	-	-	100/3	7	•			8	-	-	-	SPARE	
					9		•		10	225/3	-	-		
					11			•	12	-	-	-		
PANEL 8GB	9			60/3	13	•			14	125/3	28		TRANSFORMER 2GA	
		9			15		•		16		32			
			9		17			•	18			22		
PANEL 8GA	114			250/3	19	•			20	125/3	41		TRANSFORMER 4GA	
		114			21		•		22		28			
			114		23			•	24			36		
SPACE	-	-	-	-	25	•			26	600/3	240		AIR COMPRESSOR	
					27		•		28		240			
					29			•	30			240		
PANEL 8S OF IFS-S	148			500/3	31	•			32	-	-	-	SPACE	
		164			33		•		34	-	-	-		
			150		35			•	36	-	-	-		

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
580	587	572	

GENERAL NOTES:

- A. For one line power diagrams, see EE0-1.1 and EE0-1.2.
- B. For location of all panelboards and switchboard, see EE1-1.0.
- C. Provide appropriate lugs for circuit breakers as required to accommodate sets of run and/or oversized conductors.

MAIN: 250 AMPERE, MAIN LUGS ONLY
VOLTS: 277/480 V, 3 PH, 4W

PANEL 8GA (BOTTOM FEED)
22 KA SCCR

FEEDER SIZE: 4#350 kcmil, 1#350 kcmil G
LOCATION: IFS-G IN ROOM 109

DESCRIPTION	AMPERES			Brk	Ckt	A	B	C	Ckt	Brk	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
AIR DRYER (ROOM 100)	11			-/3	1	•			2	-/3	27			EXHAUST FAN #9-(ROOF ROOM 100)
		11		b,c	3		•		4	b,c		27		
			11		5			•	6			27		
BLAST & RECOVERY UNIT 1 (BRU-1) (ROOM 100)	14			-/3	7	•			8	-/3	21			MAKE-UP AIR UNIT 1-(ROOF ROOM 100)
		14		b,c	9		•		10	b,c		21		
			14		11			•	12			21		
BLAST & RECOVERY UNIT 2 (BRU-2) (ROOM 100)	14			-/3	13	•			14	100/3	-	-	-	SPARE
		14		b,c	15		•		16		-	-	-	
			14		17			•	18		-	-	-	
EXHAUST FAN #8-(ROOF ROOM 100)	27			-/3	19	•			20	60/3	-	-	-	SPARE
		27		b,c	21		•		22		-	-	-	
			27		23			•	24		-	-	-	
SPACE	-	-	-	-	25	•			26	-	-	-	-	SPACE
					27		•		28	-	-	-	-	
					29			•	30	-	-	-	-	
					31	•			32	-	-	-	-	
					33		•		34	-	-	-	-	
					35			•	36	-	-	-	-	
					37	•			38	-	-	-	-	
					39		•		40	-	-	-	-	
					41			•	42	-	-	-	-	

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
114	114	114	

- a) INSTALL GFCI TYPE CIRCUIT BREAKER WITH 5 MILLI-AMPERE GROUND FAULT PROTECTION
- b) INSTALL PROVISIONS FOR PADLOCKING CIRCUIT BREAKER IN OFF POSITION
- c) SIZE PER MANUFACTURER RECOMMENDATION

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY: Javid Amirazodi	CHECKED: Jaswinder Gill	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE PANEL SCHEDULE 1	SHEET EE1-10.1
DETAILS BY: Ed D. Tapalla 3/13	CHECKED: Javid Amirazodi		POST MILE		
QUANTITIES BY: Javid Amirazodi	CHECKED: Jaswinder Gill				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3		UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

TAEWW Imperial - CCSC Rev. 01/13

P:\dist_04\0413000133_sfobb_main_warehouse\elec\files\final_EXPEDITE (HOPEFULLY)\ee1_10.1.dgn

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: *Ingrid P. Castano*
 INGRID P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		361	371

Javid Amirazodi
 REGISTERED ELECTRICAL ENGINEER DATE 02-21-14

3-24-14
 PLANS APPROVAL DATE

Javid Amirazodi
 No. E 17509
 Exp. 6-30-15
 ELEC
 STATE OF CALIFORNIA

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

MAIN: 60 AMPERE, MAIN LUGS ONLY
 VOLTS: 277/480 V, 3 PH, 4W

PANEL 8GB (BOTTOM FEED)
 22 KA SCCR

FEEDER SIZE: 4#1, 1#1G
 LOCATION: IFS-G IN ROOM 109

DESCRIPTION	AMPERES			Brk	Ckt	A	B	C	Ckt	Brk	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
EXIT LIGHT-ELECTRICAL (ROOM 109)	1			15/1	1	●			2	15/1	1			LIGHTS-ELECTRICAL (ROOM 109)
LIGHTS-BRIDGE PAINT (ROOM 100)		9		15/1	3	●			4	15/1	-			SPARE
LIGHTS-EQUIPMENT STORAGE, OAKLAND TRAVEL CREW STORAGE (ROOMS 106,108)			4	15/1	5	●			6	15/1			4	EXTERIOR WALL LIGHTS- BUILDING 1A
LIGHTS-EQUIPMENT STORAGE, SF TRAVEL CREW STORAGE, (ROOMS 113,115)	7			15/1	7	●			8	15/1	-			SPARE
SPARE		-		15/1	9	●			10	15/1	-			SPARE
LIGHTING NETWORK PANEL 1A			1	15/1	11	●			12	15/1			-	SPARE
SPARE	-			15/1	13	●			14	15/1	-			SPARE
SPARE		-		15/1	15	●			16	15/1			-	SPARE
SPARE			-	15/1	17	●			18	15/1			-	SPARE

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
9	9	9	

GENERAL NOTES:

- A. For one line power diagrams, see EE0-1.1 and EE0-1.2.
- B. For location of all panelboards and switchboard, see EE1-1.0.
- C. Provide appropriate lugs for circuit breakers as required to accommodate sets of run and/or oversized conductors.

MAIN: 60 AMPERE, MAIN CIRCUIT BREAKER WITH I20 V SHUNT TRIP COIL
 VOLTS: 120/240 V, 3 PH, 4W

PANEL 4GB (TOP FEED)
 22 KA SCCR

FEEDER SIZE: 1/2" C, 4#2, 1#2G
 LOCATION: IN ROOM 108

DESCRIPTION	AMPERES			BRK	CKT	A	B	C	CKT	BRK	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
REC- HAZARDOUS MATERIAL (ROOM 111, 118)	3			20/1	1	●			2					
UNIT HEATER #3- HAZARDOUS MATERIAL (ROOM III)		15		30/2	3	●			4	15/3				SPARE
			15	30/2	5	●			6					
UNIT HEATER #4- HAZARDOUS MATERIAL (ROOM IIB)	15			30/2	7	●			8	15/1	1			SHUNT TRIP OF MAIN CIRCUIT BRAKER
		15		30/2	9	●			10	20/2				SPARE
EXHAUST FAN #1- HAZARDOUS MATERIAL (ROOM 111)			4.4	20/1	11	●			12	20/2				
EXHAUST FAN #2- HAZARDOUS MATERIAL (ROOM 118)	4.4			20/1	13	●			14	-	-			SPACE
NOT USED		-		-	15	●			16	-	-			
LIGHTS (ROOMS III, IIB)			2	15/1	17	●			18	-	-			
SPARE	-			20/1	19	●			20	-	-			

- a) INSTALL GFCI TYPE CIRCUIT BREAKER WITH 5 MILLI-AMPERE GROUND FAULT PROTECTION
- b) INSTALL PROVISIONS FOR PADLOCKING CIRCUIT BREAKER IN OFF POSITION
- c) SIZE PER MANUFACTURER RECOMMENDATION

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
23.4	30.0	21.4	

MAIN: 100 AMPERE 3 POLE CB
 VOLTS: 120/240 V, 3 PH, 4W

PANEL 4GA (BOTTOM FEED)
 22 KA SCCR

FEEDER SIZE: 4#1, 1#1G
 LOCATION: IFS-G IN ROOM 109

DESCRIPTION	AMPERES			Brk	Ckt	A	B	C	Ckt	Brk	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
UNIT HEATERS #1, #2- BRIDGE PAINT (ROOM 100)	4			20/1	1	●			2					
WALL HEATERS 1- EQUIPMENT STORAGE (ROOM 106)		6.6		20/2	3	●			4	20/3				SPARE
			6.6	20/2	5	●			6					
WALL HEATERS 2- EQUIPMENT STORAGE (ROOM 113)	6.6			20/2	7	●			8	20/1	3			DC POWER SUPPLY COMBINER (BUILDING 1A)
		6.6		20/2	9	●			10	-	-			SPACE
SPARE			-	20/1	11	●			12	-	-			
SPARE	-			20/1	13	●			14	-	-			
PANEL 4GB-OAKLAND TRAVEL CREW STORAGE (ROOM 108)		30.0		60/3	15	●			16	-	-			
			21.4	60/3	17	●			18	-	-			
	23.4			60/3	19	●			20	-	-			

- a) INSTALL GFCI TYPE CIRCUIT BREAKER WITH 5 MILLI-AMPERE GROUND FAULT PROTECTION
- b) INSTALL PROVISIONS FOR PADLOCKING CIRCUIT BREAKER IN OFF POSITION
- c) SIZE PER MANUFACTURER RECOMMENDATION

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
37.0	43.2	28.0	

MAIN: 100 AMPERE 3 POLE CB
 VOLTS: 120/240 V, 3 PH, 4W

PANEL 4GC (BOTTOM FEED)
 22 KA SCCR

FEEDER SIZE: 4#1, 1#1G
 LOCATION: IFS-G IN ROOM 109

DESCRIPTION	AMPERES			Brk	Ckt	A	B	C	Ckt	Brk	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
OVERHEAD DOOR/OVERHEAD COILING DOOR OPERATORS- BRIDGE PAINT (ROOM 100)	6.4			15/3	1	●			2					OVERHEAD DOOR OPERATORS- OAKLAND TRAVEL CRAW, SF TRAVEL CREW (ROOM 108, 115)
		6.4		15/3	3	●			4	15/3				
			6.4	15/3	5	●			6					
SPARE	-			20/2	7	●			8					
		-		20/2	9	●			10	20/3				SPARE
HOT WATER HEATER 1-BRIDGE PAINT (ROOM 100)	32		32	-/2	11	●			12					
				-/2	13	●			14	20/1	-			SPARE
NOT USED	-			-	15	●			16	-	-			NOT USED
SPARE				20/1	17	●			18	20/1				SPARE
SPACE	-			-	19	●			20	-	-			SPACE
		-		-	21	●			22	-	-			
				-	23	●			24	-	-			
				-	25	●			26	-	-			
				-	27	●			28	-	-			
				-	29	●			30	-	-			

- a) INSTALL GFCI TYPE CIRCUIT BREAKER WITH 5 MILLI-AMPERE GROUND FAULT PROTECTION
- b) INSTALL PROVISIONS FOR PADLOCKING CIRCUIT BREAKER IN OFF POSITION
- c) SIZE PER MANUFACTURER RECOMMENDATION

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
44.8	12.8	44.8	

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 3/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 33M5785
 POST MILE

SFOBB WAREHOUSE
 PANEL SCHEDULES 2

SHEET EE1-10.2

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: *Ingrit P. Castano*
 INGRIT P. CASTANO
 Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		362	371

Javid Amirazodi 02-21-14
 REGISTERED ELECTRICAL ENGINEER DATE

3-24-14
 PLANS APPROVAL DATE

Javid Amirazodi
 No. E 17509
 Exp. 6-30-15
 ELEC
 STATE OF CALIFORNIA

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MAIN: 100 AMPERE 3 POLE CB
 VOLTS: 120/208 V, 3 PH, 4W

PANEL 2GA (BOTTOM FEED)
 22 KA SCCR

FEEDER SIZE: 4#1, 1#1G
 LOCATION: IFS-G IN ROOM 109

DESCRIPTION	AMPERES			Brk	Ckt	A	B	C	Ckt	Brk	AMPERES			DESCRIPTION	
	A	B	C								A	B	C		
REC- BRIDGE PAINT, NORTH WALL (ROOM 100)	6			20/1	1	•			2	20/1	7.5			REC-CANVAS (ROOM 116)	
REC- BRIDGE PAINT, NORTH WALL (ROOM 100)		7.5		20/1	3	•			4	20/1		10.5		REC-SF TRAVEL CREW (ROOM 115)	
REC- BRIDGE PAINT, SOUTH WALL (ROOM 100)			3	20/1	5	•			6	20/1			6	REC-EQUIPMENT STORAGE (ROOM 106, 113)	
REC-DRINKING FOUNTAIN (ROOM 100)	4			20/1	7	•			8	20/1	12			REC-OAKLAND TRAVEL CREW (ROOM 108)	
REC- BRIDGE PAINT, SOUTH WALL (ROOM 100)		7.5		20/1	9	•			10	20/1		4.5		REC-OAKLAND TRAVEL CREW (ROOM 108)	
REC- ELECTRICAL (ROOM 109)			6	20/1	11	•			12	20/1			6	REC- ELECTRICAL (ROOM 109)	
SPARE	-			20/3	13	•			14	20/1	3			REC- PV WASHING SYSTEM (BUILDING 1A ROOF)	
		-			15	•			16	20/1		-			SPARE
			-		17	•			18	20/2			-		SPARE
SPACE	-			-	19	•			20	-				SPACE	
		-			21	•			22	-					SPACE
			-	-	23	•			24	-					
			-	-	25	•			26	-					
			-	-	27	•			28	-					
			-	-	29	•			30	20/1			2	IDF WBR2 (ROOM 108)	

- a) INSTALL GFCI TYPE CIRCUIT BREAKER WITH 5 MILLI-AMPERE GROUND FAULT PROTECTION
- b) INSTALL PROVISIONS FOR PADLOCKING CIRCUIT BREAKER IN OFF POSITION
- c) SIZE PER MANUFACTURER RECOMMENDATION

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
32.5	30	23	

MAIN: 60 AMPERE 3 POLE CB
 VOLTS: 120/208 V, 3 PH, 4W

PANEL 2GC (TOP FEED)
 22 KA SCCR

FEEDER SIZE: 4#2, 1#2G
 LOCATION: ROOM 100 (WEST)

DESCRIPTION	AMPERES			Brk	Ckt	A	B	C	Ckt	Brk	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
AUTOMATIC DRAIN FOR FILTERS AND BREATHING AIR PURIFIER-BRIDGE PAINT (ROOM 100)	1			20/1	1	•			2	20/1	5			BREATHING AIR PURIFIER-BRIDGE PAINT (ROOM 100)
MIX BOOTH CONTROL PANEL (ROOM 100)		10		20/1	3	•			4	20/1		1		AUTOMATIC DRAIN FOR AIR RECEIVERS-BRIDGE PAINT (ROOM 100)
BLAST BOOTH CONTROL PANEL (ROOM 100)			10	-/3	5	•			6				10	SPRAY BOOTH CONTROL PANEL (ROOM 100)
	10				7	•			8	-/3				
		10			9	•			10	b,c			10	
SPARE			-	20/1	11	•			12	15/1			5.8	EXHAUST FAN #10- MIX BOOTH ROOM 100
SPARE	-			20/1	13	•			14	20/1				SPARE
SPACE		-		-	15	•			16	20/1				SPACE
SPACE			-	-	17	•			18	-				SPACE
SPACE			-	-	19	•			20	-				SPACE

- a) INSTALL GFCI TYPE CIRCUIT BREAKER WITH 5 MILLI-AMPERE GROUND FAULT PROTECTION
- b) INSTALL PROVISIONS FOR PADLOCKING CIRCUIT BREAKER IN OFF POSITION
- c) SIZE PER MANUFACTURER RECOMMENDATION

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
26	31	25.8	

GENERAL NOTES:

- A. For one line power diagrams, see EE0-1.1 and EE0-1.2.
- B. For location of all panelboards and switchboard, see EE1-1.0.
- C. Provide appropriate lugs for circuit breakers as required to accommodate sets of run and/or oversized conductors.

MAIN: 100 AMPERE 3 POLE CB
 VOLTS: 120/208 V, 3 PH, 4W

PANEL 2GB (BOTTOM FEED)
 22 KA SCCR

FEEDER SIZE: 4#1, 1#1G
 LOCATION: IFS-G IN ROOM 109

DESCRIPTION	AMPERES			Brk	Ckt	A	B	C	Ckt	Brk	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
FIRE ALARM CONTROL PANEL 2A (ROOM 109)	4			20/1	1	•			2	20/1	4			ACCESS CONTROL PANEL (ROOM 109)
INTRUSION ALARM CONTROL PANEL (ROOM 109)		4		20/1	3	•			4	20/1		3		CCTV NETWORK SWITCH (ROOM 109)
BELL-FIRE ALARM SYSTEM-WEST			1	20/1	5	•			6	20/1			1	DIGITAL GAS METER
SPARE	-			20/1	7	•			8	20/1	1			DIGITAL GAS METER
REC-EF8 AND EF9 ON ROOF		3		20/1	9	•			10	20/1		3		POWER MONITORING SYSTEM EQUIPMENT
SPARE			-	20/1	11	•			12	20/1			3	POWER MONITORING SYSTEM EQUIPMENT
PANEL 2GC (ROOM 100)	26			60/3	13	•			14		-			SPACE
		31			15	•			16			-		
			25.8		17	•			18			-		
SPARE	-			30/3	19	•			20		-			
		-			21	•			22			-		
SPACE	-			-	23	•			24		-			
		-			25	•			26			-		
			-		27	•			28			-		
			-	-	29	•			30		-			

- a) INSTALL GFCI TYPE CIRCUIT BREAKER WITH 5 MILLI-AMPERE GROUND FAULT PROTECTION
- b) INSTALL PROVISIONS FOR PADLOCKING CIRCUIT BREAKER IN OFF POSITION
- c) SIZE PER MANUFACTURER RECOMMENDATION.
- d) CIRCUIT BREAKER MUST BE LOCKABLE WITH RED COLORED HANDEL AND IDENTIFY AS "FIRE ALARM CIRCUIT".

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
35	44	30.8	

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY: <i>Javid Amirazodi</i>	CHECKED: <i>Jaswinder Gill</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE PANEL SCHEDULES 3	SHEET EE1-10.3
DETAILS BY: Ed D. Tapalla 3/13	CHECKED: <i>Javid Amirazodi</i>			POST MILE		
QUANTITIES BY: <i>Javid Amirazodi</i>	CHECKED: <i>Jaswinder Gill</i>					

UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

10-25-13 | 12-16-13 | 2-21-14

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

P:\dist_04\0413000133_sfobb_main_warehouse\elec\files\final EXPEDITE (HOPEFULLY) ee1_10.3.dgn

MAIN: 500 AMPERE, 3-POLE CB
VOLTS: 480/277 V, 3-PHASE, 4-WIRE

PANEL 8S (BOTTOM FEED)
42 KA SCCR

FEEDER SIZE: 2 SETS OF 3" C, 4#350 kcmil,
1#350 kcmil G EACH
LOCATION: IFS-S IN ROOM 138

DESCRIPTION	AMPERES			Brk	Ckt	A B C			Ckt	Brk	AMPERES			DESCRIPTION
	A	B	C			A	B	C			A	B	C	
SPACE	-	-	-	-	1	•			2	-	-	-	SPACE	
					3		•		4					
					5			•	6					
SPACE	-	-	-	-	7	•			8	-	-	-	SPACE	
					9		•		10					
					11			•	12					
SPARE	-	-	-	70/3	13	•			14	-	-	-	SPARE	
					15		•		16	100/3	-	-		
					17			•	18					
PANEL 8SB	19			60/3	19	•			20		81		TRANSFORMER 4SA	
		17			21		•		22	175/3		95		
			15		23			•	24			87		
PANEL 8SA	-	-	-	100/3	25	•			26		48		TRANSFORMER 2SA	
					27		•		28	175/3		52		
					29			•	30			48		

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
148	164	150	

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: *Ingrid P. Icastano*
INGRID P. ICASTANO
Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		363	371

Javid Amirazodi 02-21-14
REGISTERED ELECTRICAL ENGINEER DATE

3-24-14
PLANS APPROVAL DATE

Javid Amirazodi
No. E 17509
Exp. 6-30-15
ELEC
STATE OF CALIFORNIA

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

GENERAL NOTES:

- A. For one line power diagrams, see EE0-1.1 and EE0-1.2.
- B. For location of all panelboards and switchboard, see EE1-1.0.
- C. Provide appropriate lugs for circuit breakers as required to accommodate sets of run and/or oversized conductors.

MAIN: 100 AMPERE, MAIN LUGS ONLY
VOLTS: 277/480 V, 3 PH, 4W

PANEL 8SA (BOTTOM FEED)
22 KA SCCR

FEEDER SIZE: 4#1, 1#1G
LOCATION: IFS-S IN ROOM 138

DESCRIPTION	AMPERES			Brk	Ckt	A B C			Ckt	Brk	AMPERES			DESCRIPTION
	A	B	C			A	B	C			A	B	C	
SPARE	-	-	-	20/3	1	•			2	-	-	-	SPARE	
					3		•		4	30/3				
					5			•	6					
SPARE	-	-	-	30/3	7	•			8	-	-	-	SPARE	
					9		•		10	15/3				
					11			•	12					
SPACE	-	-	-	-	13	•			14	-	-	-	SPACE	
					15		•		16	-	-	-		
					17			•	18	-	-	-		
				19		•			20	-	-	-		
				21			•		22	-	-	-		
				23			•		24	-	-	-		
				25		•			26	-	-	-		
				27			•		28	-	-	-		
				29			•		30	-	-	-		

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
-	-	-	

- a) INSTALL GFCI TYPE CIRCUIT BREAKER WITH 5 MILLI-AMPERE GROUND FAULT PROTECTION
- b) INSTALL PROVISIONS FOR PADLOCKING CIRCUIT BREAKER IN OFF POSITION
- c) SIZE PER MANUFACTURER RECOMMENDATION

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY: <i>Javid Amirazodi</i>	CHECKED: <i>Jaswinder Gill</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 33M5785	SFOBB WAREHOUSE PANEL SCHEDULES 4	SHEET EE1-10.4
DETAILS BY: Ed D. Tapalla 3/13	CHECKED: <i>Javid Amirazodi</i>			POST MILE		
QUANTITIES BY: <i>Javid Amirazodi</i>	CHECKED: <i>Jaswinder Gill</i>					

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

UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE: 04130001331

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 10-25-13, 12-11-13, 2-21-14

TAEWW Imperial - CCSC Rev. 01/13

P:\dist_04\0413000133_sfoobb_main_warehouse\elec\files\ones\FINAL EXPEDITE (HOPEFULLY)\ee1_10.4.dgn

MAIN: 60 AMPERE, MAIN LUGS ONLY
VOLTS: 277/480 V, 3 PH, 4W

PANEL 8SB (BOTTOM FEED)
22 KA SCCR

FEEDER SIZE: 4#1, 1#1G
LOCATION: IFS-S IN ROOM 138

DESCRIPTION	AMPERES			Brk	Ckt	A	B	C	Ckt	Brk	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
LIGHTS OFFICE, LOBBY, KITCHENETTE (ROOMS 125, 126, 127)	2			15/1	1				2	15/1	1			EXIT LIGHTS OFFICE, HALLWAY, REST ROOMS (ROOMS 126, 129, 131, 132)
LIGHTS HALLWAY, REST ROOMS (ROOMS 129, 131, 132)		3		15/1	3				4	15/1		4		LIGHTS- ELEC, SAS STORAGE, SAS VESTIBULE (ROOMS 120B, 120C, 138)
LIGHTS TRAVELLER SUPPLY STORAGE, SPIDER CAGE STORAGE, BRIDGE ELECTRICAL STORAGE (ROOMS 119, 121, 122)			4	15/1	5				6	15/1			3	EXIT LIGHTS- SAS STORAGES, SAS VESTIBULE, TOLL BRIDGE WAREHOUSE (ROOMS 120A, B, C, 123)
LIGHTS-SAS STORAGE (ROOM 120A)	7			15/1	7				8	15/1	9			EXTERIOR LIGHTING- BUILDING 1B
LIGHTS TOLL BRIDGE WAREHOUSE (ROOM 123)		10		15/1	9				10	15/1		-		SPARE
LIGHTS HAZ MAT, BULK PAINT, D.O. STORAGES (ROOMS 134A, 134B, 135, 136, 137)			7	15/1	11				12	15/1			1	LIGHTING NETWORK PANEL 1B
SPARE	-			15/1	13				14	15/1	-			SPARE
SPARE		-		15/1	15				16	15/1	-			SPARE
SPARE			-	15/1	17				18	15/1	-			SPARE

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
19	17	15	

MAIN: 250 AMPERE 3 POLE CB
VOLTS: 120/240 V, 3 PH, 4W

PANEL 4SA (BOTTOM FEED)
22 KA SCCR

FEEDER SIZE: 4#4/0, 1#4/0G
LOCATION: IFS-S IN ROOM 108

DESCRIPTION	AMPERES			Brk	Ckt	A	B	C	Ckt	Brk	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
UNIT HEATERS #9,#10- TOLL BRIDGE WAREHOUSE (ROOM 123)	5			15/1	1				2	25/1	9.8			EXHAUST FAN #6- D. O. STORAGE (ROOM 136)
UNIT HEATER #12-BULK PAINT STORAGE (ROOM 134B)		21		30/2	3				4	30/2		21		UNIT HEATER #8- SAS STORAGE (ROOM 120B)
EXHAUST FAN #3- HALLWAY (ROOM 129)	3			15/1	7				8	15/1	3			UNIT HEATER #7- SAS STORAGE (ROOM 120A)
SPACE		-		-	9				10	-/2		12		A/C-1 OUTDOOR UNIT (ROOF)
UNIT HEATER #5- TRAVELER SUPPLY STORAGE (ROOM 119)	10			20/2	13				14	30/2	-			SPARE
CIRCULATION FAN 1 (ROOM 123)		10		20/1	15				16	-				SPARE
CIRCULATION FAN 2 (ROOM 123)	7.2		7.2	20/1	17				18	15/1			2	EXHAUST FAN #7- ELECT ROOM (ROOM 138)
NOT USED				-	19				20	-				SPACE
SPARE				20/1	21				22	-				SPACE
SPACE				-	23				24	30/2				SPARE
SPACE				-	25				26	-				SPACE
SPACE				-	27				28	20/2				SPACE
SPACE				-	29				30	-				SPACE
SPACE				-	31				32	20/1	1.5			REC-(ROOF)
SPACE				-	33				34	-				NOT USED
SPACE				-	35				36	15/1			3	UNIT HEATER #6- SAS STORAGE (ROOM 120A)
PANEL 4SB-BULK PAINT STORAGE (ROOM 134B)	30.2			60/3	37				38	100/3	69.3			PANEL 4SD-SAS STORAGE (ROOM 120A)
		30		60/3	39				40	100/3	72.6			
			16	41	42							69.3		

- a) INSTALL GFCI TYPE CIRCUIT BREAKER WITH 5 MILLI-AMPERE GROUND FAULT PROTECTION
- b) INSTALL PROVISIONS FOR PADLOCKING CIRCUIT BREAKER IN OFF POSITION
- c) SIZE PER MANUFACTURER RECOMMENDATION

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
139.0	166.6	151.5	

GENERAL NOTES:

- A. For one line power diagrams, see EE0-1.1 and EE0-1.2.
- B. For location of all panelboards and switchboard, see EE1-1.0.
- C. Provide appropriate lugs for circuit breakers as required to accommodate sets of run and/or oversized conductors.

MAIN: 60 AMPERE, MAIN CIRCUIT BREAKER WITH 120 V SHUNT TRIP COIL
VOLTS: 120/240 V, 3 PH, 4W

PANEL 45B (TOP FEED)
22 KA SCCR

FEEDER SIZE: 1/2"C, 4#2, 1#2G
LOCATION: IN ROOM 134B

DESCRIPTION	AMPERES			BRK	CKT	A	B	C	CKT	BRK	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
REC- HAZARDOUS MATERIAL (ROOMS 134A, 135)	3			20/1	1				2	20/1	4.4			EXHAUST FAN #4- HAZARDOUS MATERIAL (ROOM 134A)
UNIT HEATER #11- HAZARDOUS MATERIAL (ROOM 134A)		15		30/2	3				4	20/2				SPARE
UNIT HEATER #13- HAZARDOUS MATERIAL (ROOM 135)	15		15	30/2	5				6	-				SPARE
SHUNT TRIP OF MAIN CIRCUIT BRAKER				20/1	7				8	20/1	2			LIGHTS (ROOMS 134A, 135)
EXHAUST FAN #5- HAZARDOUS MATERIAL (ROOM 135)	5.8			15/1	9				10	-				NOT USED
SPACE				-	11				12	20/1				SPARE
				-	13				14	-				SPACE
				-	15				16	-				SPACE
				-	17				18	-				SPACE
				-	19				20	-				SPACE

- a) INSTALL GFCI TYPE CIRCUIT BREAKER WITH 5 MILLI-AMPERE GROUND FAULT PROTECTION
- b) INSTALL PROVISIONS FOR PADLOCKING CIRCUIT BREAKER IN OFF POSITION
- c) SIZE PER MANUFACTURER RECOMMENDATION

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
30.2	30	16	

MAIN: 150 AMPERE 3 POLE CB
VOLTS: 120/240 V, 3 PH, 4W

PANEL 4SD (TOP FEED)
22 KA SCCR

FEEDER SIZE: 4#2/0, 1#2/0G
LOCATION: IN ROOM 120A

DESCRIPTION	AMPERES			BRK	CKT	A	B	C	CKT	BRK	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
DEHUMIDIFIER #1-TRAVELER SUPPLY STORAGE (ROOM 119)	19.8			40/2	1				2	30/2	16.5			DEHUMIDIFIER #4-SAS STORAGE (ROOM 120A)
DEHUMIDIFIER #2-SAS STORAGE (ROOM 120A)		19.8		30/2	3				4	b		16.5		DEHUMIDIFIER #5-SAS STORAGE (ROOM 120A)
DEHUMIDIFIER #3-SAS STORAGE (ROOM 120A)			16.5	30/2	5				6	30/2			16.5	DEHUMIDIFIER #6-SAS STORAGE (ROOM 120B)
SPARE				30/2	7				8	b	16.5			DEHUMIDIFIER #6-SAS STORAGE (ROOM 120B)
SPACE				-	9				10	40/2		19.8		DEHUMIDIFIER #6-SAS STORAGE (ROOM 120B)
SPACE				-	11				12	b		19.8		DEHUMIDIFIER #6-SAS STORAGE (ROOM 120B)
SPACE				-	13				14	20/1				SPACE
SPACE				-	15				16	-				SPACE
				-	17				18	-				SPACE
				-	19				20	-				SPACE

- a) INSTALL GFCI TYPE CIRCUIT BREAKER WITH 5 MILLI-AMPERE GROUND FAULT PROTECTION
- b) INSTALL PROVISIONS FOR PADLOCKING CIRCUIT BREAKER IN OFF POSITION
- c) SIZE PER MANUFACTURER RECOMMENDATION

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
69.3	72.6	69.3	

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 3/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 33M5785
POST MILE

SFOBB WAREHOUSE
PANEL SCHEDULES 5

SHEET EE1-10.5

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: *Javid Amirazodi*
INGRIS P. ICASIANO
Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		364	371

Javid Amirazodi 02-21-14
REGISTERED ELECTRICAL ENGINEER DATE

3-24-14
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
Javid Amirazodi
No. E 17509
Exp. 6-30-15
ELEC
STATE OF CALIFORNIA

MAIN: 60 AMPERE 3 POLE CB
VOLTS: 120/240 V, 3 PH, 4W

PANEL 45C (BOTTOM FEED)
22 KA SCCR

FEEDER SIZE: 4#1, 1#1G
LOCATION: IFS-S IN ROOM 138

DESCRIPTION	AMPERES			Brk	Ckt	A	B	C	Ckt	Brk	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
OVERHEAD DOOR OPERATORS-TOLL BRIDGE WAREHOUSE STORAGE, (ROOM-123)	3.2			15/3	1				2	15/3	6.4			OVERHEAD DOOR OPERATORS-TRAVEL SUPPLY, SPIDER CAGE (ROOM 119, 121)
		3.2			3				4		6.4			
			3.2		5				6			6.4		
OVERHEAD COILING DOOR OPERATOR-BULK PAINT, OVERHEAD DOOR OPERATOR D. O. STORAGE (ROOM 134B, 136)	6.4			15/3	7				8	15/3	6.4			OVERHEAD COILING DOOR OPERATORS-SAS STORAGE, SAS VESTIBULE (ROOM 120B, 120C)
		6.4			9				10		6.4			
			6.4		11				12			6.4		
SPARE	-			15/3	13				14	20/3	-			SPARE
		-			15				16		-			
			-		17				18			-		
SPARE	-			15/3	19				20	20/3	-			SPARE
		-			21				22		-			
			-		23				24			-		
SPARE	-			20/2	25				26	20/2	-			SPARE
		-			27				28		-			
SPARE	-			20/1	29				30	20/1	-			SPARE

- a) INSTALL GFCI TYPE CIRCUIT BREAKER WITH 5 MILLI-AMPERE GROUND FAULT PROTECTION
- b) INSTALL PROVISIONS FOR PADLOCKING CIRCUIT BREAKER IN OFF POSITION
- c) SIZE PER MANUFACTURER RECOMMENDATION

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
22.4	22.4	22.4	

MAIN: 200 AMPERE 3 POLE CB
VOLTS: 120/208 V, 3 PH, 4W

PANEL 25A (BOTTOM FEED)
22 KA SCCR

FEEDER SIZE: 4#4/0, 1#4/0G
LOCATION: IFS-S IN ROOM 138

DESCRIPTION	AMPERES			Brk	Ckt	A	B	C	Ckt	Brk	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
REC-TRAVELER SUPPLY (ROOM 119)	7.5			20/1	1				2	20/1	9			REC-TOLL BRIDGE WAREHOUSE STORAGE-WEST (ROOM 123)
REC-BRIDGE ELECTRICAL (ROOM 122)		9		20/1	3				4	20/1		12		REC-TOLL BRIDGE WAREHOUSE STORAGE-EAST (ROOM 123)
REC-SPIDER CAGE (ROOM 121)			12	20/1	5				6	20/1			9	REC-TOLL BRIDGE WAREHOUSE STORAGE-NORTH (ROOM 123)
REC-SAS WEST (ROOM 120A)	7.5			20/1	7				8	20/1	6			REC-IT CLOSET (ROOM 139)
REC-SAS SOUTH (ROOM 120A)		6		20/1	9				10	20/1	6			REC-IT CLOSET (ROOM 139)
REC-SAS NORTH (ROOM 120A)			7.5	20/1	11				12	20/1		4.5		REC-D. O. STORAGE (ROOM 137)
REC-SAS EAST (ROOM 120A)	7.5			20/1	13				14	20/1	9			REC-D. O. STORAGE (ROOM 137)
REC-SAS STORAGE, SAS VESTIBULE (ROOMS 120B, 120C)		15		20/1	15				16	20/1	7.5			REC-D. O. STORAGE (ROOM 136)
REC-RECYCLED MATERIAL (ROOM 133)			7.5	20/1	17				18	20/1		10.5		REC-MEZZANINE (ROOM 124)
REC-JANITOR, WOMEN, MEN (ROOM 130, 131, 132)	7.5			20/1	19				20	20/1	6			REC-ELECTRICAL (ROOM 138)
REC-REFRIGERATOR (ROOM 127)		5		20/1	21				22	20/1	6			REC-BULK PAINT (ROOM 134B)
REC-KITCHENETTE (ROOM 127)			5	20/1	23				24	20/1		6		REC-ELECTRICAL (ROOM 138)
REC-LOBBY, HALLWAY (ROOMS 126, 129)	7.5			20/1	25				26	20/1	4			REC-DRINKING FOUNTAIN (ROOM 129)
REC-OFFICE (ROOM 125)		6		20/1	27				28	20/1	10			REC-MICROWAVE (ROOM 127)
REC-MIS-OFFICE (ROOM 125)			4.5	20/1	29				30	20/1		3		REC-CONTROLLED-OFFICE (ROOM 125)
REC-IT COMMUNICATION RACK (ROOM 139)	6			20/1	31				32	20/1	3			REC-CONTROLLED-LOBBY, KITCHEN (ROOM 126, 127)
REC-ATTIC SPACE		3		20/1	33				34	20/1	3			REC-PV WASHING SYSTEM (BUILDING 1B ROOF)
REC-GARBAGE DISPOSAL (ROOM 127)			5	20/1	35				36	20/1		6		REC-ELECTRICAL (ROOM 138)
SPARE	-			20/1	37				38	20/1	3			DC POWER SUPPLY COMBINER BOXES (BUILDING 1B)
SPARE		-		20/1	39				40	20/1	-			SPARE
SPARE			-	20/1	41				42	20/1	-			SPARE

- a) INSTALL GFCI TYPE CIRCUIT BREAKER WITH 5 MILLI-AMPERE GROUND FAULT PROTECTION
- b) INSTALL PROVISIONS FOR PADLOCKING CIRCUIT BREAKER IN OFF POSITION
- c) SIZE PER MANUFACTURER RECOMMENDATION

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
83.5	88.5	80.5	

GENERAL NOTES:

- A. For one line power diagrams, see EE0-1.1 and EE0-1.2.
- B. For location of all panelboards and switchboard, see EE1-1.0.
- C. Provide appropriate lugs for circuit breakers as required to accommodate sets of run and/or oversized conductors.

MAIN: 200 AMPERE 3 POLE CB
VOLTS: 120/208 V, 3 PH, 4W

PANEL 25B (BOTTOM FEED)
22 KA SCCR

FEEDER SIZE: 4#4/0, 1#4/0G
LOCATION: IFS-S IN ROOM 138

DESCRIPTION	AMPERES			Brk	Ckt	A	B	C	Ckt	Brk	AMPERES			DESCRIPTION
	A	B	C								A	B	C	
BELL-FIRE ALARM SYSTEM-EAST	1			20/1	1				2	-/1				VETICAL WHEELCHAIR LIFT-TOLL BRIDGE REGIONAL WAREHOUSE (ROOM 123)
POWER MONITORING SYSTEM EQUIPMENT		3		20/1	3				4	20/1		4		FIRE ALARM CONTROL PANEL 2B (ROOM 138)
POWER MONITORING SYSTEM EQUIPMENT			3	20/1	5				6	15/1			3	HOT WATER HEATER 2-JANITOR (ROOM 130)
POWER MONITORING SYSTEM EQUIPMENT	3			20/1	7				8		24			FORKLIFT BATTERY CHARGER (ROOM 123)
DIGITAL GAS METER		1		20/1	9				10	60/3		24		FORKLIFT BATTERY CHARGER (ROOM 123)
SPARE				20/1	11				12				24	
SPARE	-			20/1	13				14					
SPARE		-		20/1	15				16	20/3				SPARE
SPARE			-	20/1	17				18					
SPARE				15/3	19				20	20/3				SPARE
		-			21				22					
			-		23				24					
SPACE				25				26						SPACE
				27				28						
				29				30						
				31				32						
				33				34						
				35				36						
				37				38						
				39				40						
				41				42						

- a) INSTALL GFCI TYPE CIRCUIT BREAKER WITH 5 MILLI-AMPERE GROUND FAULT PROTECTION
- b) INSTALL PROVISIONS FOR PADLOCKING CIRCUIT BREAKER IN OFF POSITION
- c) SIZE PER MANUFACTURER RECOMMENDATION
- d) CIRCUIT BREAKER MUST BE LOCKABLE WITH RED COLORED HANDLE AND IDENTIFY AS "FIRE ALARM CIRCUIT".

A	B	C	TOTAL CONNECTED LOAD (AMPERES PER PHASE)
28	32	30	

CALIFORNIA STATE FIRE MARSHAL APPROVED
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Reviewed by: *Ingrit P. Castano*
INGRIT P. CASTANO
Approval date: 02-11-14

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		365	371

Javid Amirazodi 02-21-14
REGISTERED ELECTRICAL ENGINEER DATE

3-24-14
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
Javid Amirazodi
No. E 17509
Exp. 6-30-15
ELEC
STATE OF CALIFORNIA

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Javid Amirazodi	CHECKED Jaswinder Gill
DETAILS	BY Ed D. Tapalla 3/13	CHECKED Javid Amirazodi
QUANTITIES	BY Javid Amirazodi	CHECKED Jaswinder Gill

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 33M5785
POST MILE

SFOBB WAREHOUSE
PANEL SCHEDULES 6

SHEET EE1-10.6

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	5785		367	371

CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approvals subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>Ingrid P. Icasiano</i> INGRID P. ICASIANO Approval date: 02-11-14		02-21-14 DATE REGISTERED ELECTRICAL ENGINEER <i>James R. Lacy</i> JAMES LACY No. 13770 Exp. 9-30-15 ELEC STATE OF CALIFORNIA
3-24-14 PLANS APPROVAL DATE		
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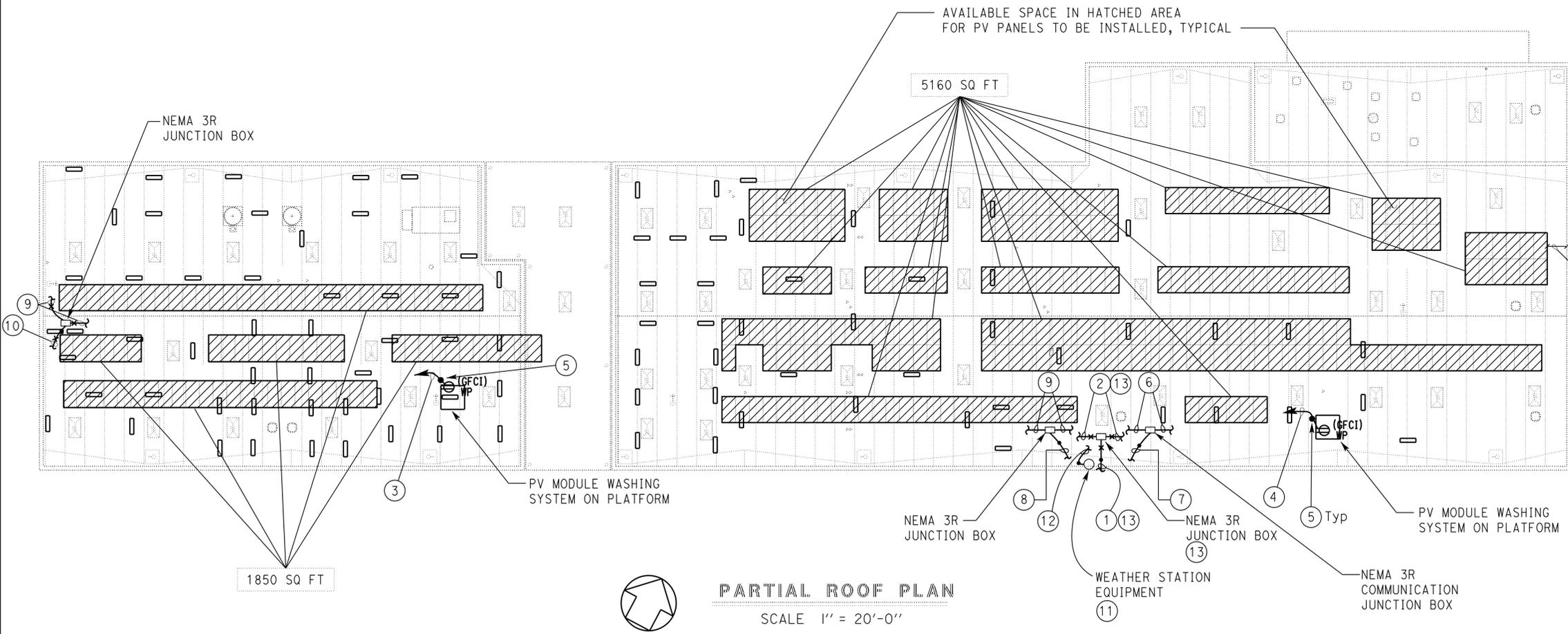
GENERAL NOTES:

- A. Provide and install approved conduit support on top of the roof to support conduit system and junction boxes. Conduit support shall be one-piece and non metallic type. For conduit support details, see Detail 1 on sheet EE1-11.3.
- B. All exposed conduits shall be galvanized rigid steel, with minimum size 3/4".
- C. Size conduits to allow for 50% additional future capacity.
- D. No DC wiring except at the module connector shall be exposed.
- E. Use type CGB connectors at conductor/cable terminations at junction boxes.
- F. DC conduit/conductors between photovoltaic modules and photovoltaic Array Circuit Combiner Boxes are not shown.

- G. Install photovoltaic panels on a self-ballasting type racking system. Photovoltaic panels shall be installed facing due south as shown with a tilt of 10° angle. For self-ballasted PV panel detail, see Detail 2 on sheet EE1-11.3.
- H. Provide and install necessary warning labels signs per Article 690 of California Electrical Code (CEC) and the State Fire Marshal's guideline for solar photovoltaic installation. Sheet EE1-11.4 has details of warning label signs.
- I. Install MC4 male-female rapid connectors to connect USE/USE-2 conductors and PV strings positive and negative terminals. No splicing in between the connectors and combiner boxes.
- J. Arrange photovoltaic panels so that the panels, skylights, and exhaust vents do not interfere with each other.

NOTES:

- ① Two at 2"C, 2#4/0, 1#4/0G to DC Disconnect switch via junction box. For continuation, see Detail 3 on sheet EE1-11.3.
- ② Conduit and conductors as required to photovoltaic array circuit combiner boxes. Install size and number of combiner boxes as required to suit locations of photovoltaic panel installation. Install warning label sign with inscription as indicated in Detail 3 on sheet EE1-11.4.
- ③ 3/4"C, 2#12, 1#12G, 2GA14.
- ④ 3/4"C, 2#12, 1#12G, 2SA34.
- ⑤ Provide conduit flashing where roof penetration occurs.
- ⑥ 1"C, TIA-485 cable to each combiner box. 2 shown but Contractor must install enough to connect to each combiner box.
- ⑦ 1"C, TIA-485 cable to each Data Acquisition Server. For continuation see Detail 3 on sheet EE1-11.3.
- ⑧ 1"C, 2#10, 1#10G, 2SA-38. To Panel 2SA in IFS-S.
- ⑨ 1"C, 2#10, 1#10G. To each 24 VDC power supply in NEMA 3R enclosure near each combiner box. From each 24 VDC power supply 1"C, 2#10, 1#12G goes to the combiner box.
- ⑩ 1"C, 2#10, 1#10G, 4GA-8. To Panel 4GA in IFS-G.
- ⑪ See Detail 4 on sheet EE1-11.4 for more information.
- ⑫ 1"C, cables as required to Data Acquisition Server and hardware associated with weather station in Room 138.
- ⑬ Label conduit and junction boxes with sign of Detail 6 on Sheet EE1-11.4. Labels on conduits must be not more than 10 feet apart.



PARTIAL ROOF PLAN
SCALE 1" = 20'-0"

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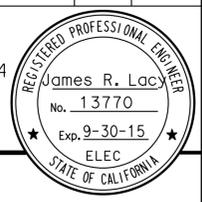
DESIGN BY J. R. Lacy CHECKED J. S. Sandhu DETAILS BY Ed D. Tapalla/Dali Zhou CHECKED J. R. Lacy QUANTITIES BY J. R. Lacy CHECKED J. S. Sandhu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 33M5785	SFOBB WAREHOUSE ROOF PLAN	SHEET EE1-11.2	
			POST MILE		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
			UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE 04130001331		DISREGARD PRINTS BEARING EARLIER REVISION DATES	8/11/13 9/28/13 10/28/13 11/28/13 12/31/13 1/29/14 2/21/14

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	5785		369	371

Reviewed by: <i>Ingrid P. Icastano</i> INGRID P. ICASTANO Approval date: 02-11-14	02-21-14 REGISTERED ELECTRICAL ENGINEER DATE
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3-24-14 PLANS APPROVAL DATE

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WARNING
ELECTRIC SHOCK HAZARD.
DO NOT TOUCH TERMINALS.
TERMINALS ON BOTH LINE AND LOAD
SIDES MAY BE ENERGIZED IN THE
OPEN POSITION

RED SIGNAGE WITH
WHITE 3/8" LETTERS

1 PHOTOVOLTAIC SIGN 1
NO SCALE

WARNING
ELECTRIC SHOCK HAZARD.
IF A GROUND FAULT IS INDICATED,
NORMALLY GROUNDED CONDUCTORS
MAY BE UNGROUNDED AND ENERGIZED.

RED SIGNAGE WITH
WHITE 3/8" LETTERS

2 PHOTOVOLTAIC SIGN 2
NO SCALE

COMBINER BOX A
STRINGS X - Y **

DC OPERATING CURRENT	** A
DC OPERATING VOLTAGE	** VDC
DC MAXIMUM SYSTEM VOLTAGE	** VDC
DC SHORT CIRCUIT CURRENT	** A

YELLOW SIGNAGE WITH WHITE 3/8" AND 1/4" LETTERS. LABEL WITH COMBINER BOX VALUES ** FROM SUBMITTED SYSTEM DESIGN. EACH BOX SHALL HAVE COMBINER BOX LETTER AND CORRECT STRINGS INDICATED.

3 PHOTOVOLTAIC SIGN 3
NO SCALE

NOTES:

- 1 Warning signs for conduits may be phenolic nameplates secured with metal bands or may be heavy duty stickers.

INVERTER

BLACK SIGNAGE WITH
WHITE 1/2" LETTERS

4 PHOTOVOLTAIC SIGN 4
NO SCALE

DC CURRENT PHOTOVOLTAIC
POWER SOURCE RATINGS

MAX. POWER-POINT CURRENT	** A
MAX. POWER-POINT VOLTAGE	** VDC
MAX. SYSTEM VOLTAGE	** VDC
SHORT CIRCUIT CURRENT	** A

YELLOW SIGNAGE WITH WHITE 3/8" AND 1/4" LETTERS. LABEL WITH INVERTER VALUES ** FROM SUBMITTED SYSTEM DESIGN.

5 PHOTOVOLTAIC SIGN 5
NO SCALE

PHOTOVOLTAIC
POWER SOURCE

RED SIGNAGE WITH
WHITE 3/8" LETTERS

6 PHOTOVOLTAIC SIGN 6
NO SCALE

PHOTOVOLTAIC
SYSTEM DISCONNECT

RED SIGNAGE WITH
WHITE 3/8" LETTERS

7 PHOTOVOLTAIC SIGN 7
NO SCALE

WARNING
ELECTRIC SHOCK HAZARD. THE DC
CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM
ARE UNGROUNDED AND MAY BE ENERGIZED.

RED SIGNAGE WITH
WHITE 3/8" LETTERS

8 PHOTOVOLTAIC SIGN 8
NO SCALE

UTILITY DISCONNECT LOCATION
AT OUTSIDE DISTRIBUTION AREA
NORTH OF MAINTENANCE STATION

RED SIGNAGE WITH
WHITE 3/8" LETTERS

9 PHOTOVOLTAIC SIGN 9
NO SCALE

PHOTOVOLTAIC INVERTER
LOCATED ON SOUTH SIDE OF
WAREHOUSE BUILDING IN
ROOM 138

RED SIGNAGE WITH
WHITE 3/8" LETTERS

10 PHOTOVOLTAIC SIGN 10
NO SCALE

WAREHOUSE PHOTOVOLTAIC
SYSTEM DISCONNECT

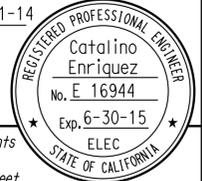
RED SIGNAGE WITH
WHITE 3/8" LETTERS

11 PHOTOVOLTAIC SIGN 11
NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY J. R. Lacy DETAILS BY Ed D. Tapalla/Dali Zhou QUANTITIES BY J. R. Lacy	CHECKED J. S. Sandhu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 33M5785	SFOBB WAREHOUSE PHOTOVOLTAIC SYSTEM WARNING LABEL SIGNS	SHEET EE1-11.4 OF
	CHECKED J. R. Lacy			POST MILE		
	CHECKED J. S. Sandhu			REVISION DATES (PRELIMINARY STAGE ONLY)		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3	UNIT: 3597 CONTRACT No.: 014101 PROJECT NUMBER & PHASE 04130001331	DISREGARD PRINTS BEARING EARLIER REVISION DATES	1/20/14 1/20/14 2/21/14	SHEET OF		

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: *Ingrid P. Casiano*
 INGRID P. CASTIANO
 Approval date: 02-11-14

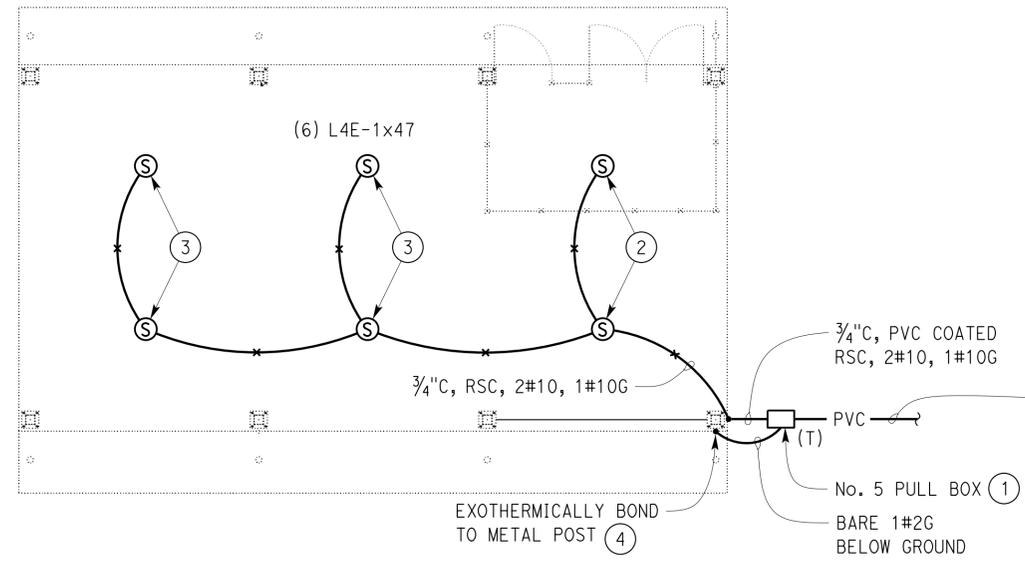
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	5785		370	371
<i>Catalino A. Enriquez</i> REGISTERED ELECTRICAL ENGINEER			02-21-14 DATE		
3-24-14 PLANS APPROVAL DATE					
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GENERAL NOTES:

- A. Surface mount light fixtures below ceiling.
- B. Light fixtures must have built-in motion sensor and controlled by existing Canopy Lighting Control Panel in existing Wash/Fuel Building. Astronomical time clock and photo control must be carried out by the existing Canopy Lighting Control Panel.

NOTES:

- ① Install ground rod inside pull box. Bond metal pull box cover, conduit and equipment grounding to ground rod. Install waterproof UL listed line fuse with a trip rating of 5-amperes.
- ② Light fixture must have 50% minimum light output when no motion is detected by the sensor.
- ③ Light fixture must be full OFF when no motion is detected by the sensor.
- ④ Bonding spot must be exposed for easy inspection.



PLAN
 1/8" = 1'-0"

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Ed D. Tapalla 10/13	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No.	33M5785	STORAGE CANOPY	SFOBB WAREHOUSE	LIGHTING PLAN	SHEET OF
POST MILE					

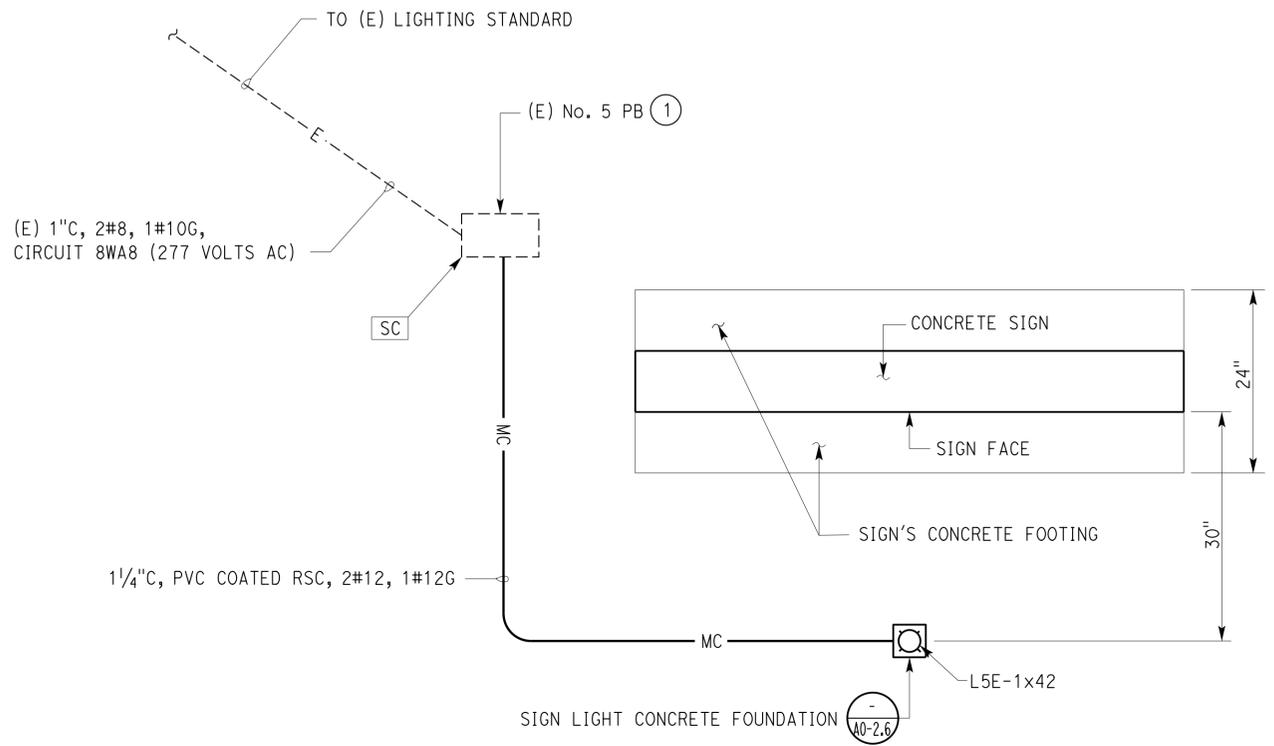
EE2-1



REVISION DATES (PRELIMINARY STAGE ONLY)					
10-15-13	1-31-14	2-21-14			

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 Reviewed by: *Ingrid P. Casiano*
 INGRID P. CASTIANO
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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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<i>Catalino A. Enriquez</i> REGISTERED ELECTRICAL ENGINEER			02-21-14 DATE		
			3-24-14 PLANS APPROVAL DATE		
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GENERAL NOTE:

Light fixture must be controlled by existing Canopy Lighting Control Panel in existing Wash/Fuel Building. Astronomical time clock and photo control must be carried out by the existing Canopy Lighting Control Panel.

NOTE:

- 1 Install waterproof UL listed line fuse with a trip rating of 1-ampere. Bond pull box metal cover and metal conduit to equipment grounding conductor.

PLAN
NO SCALE

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN	BY Catalino Enriquez	CHECKED James Lacy
DETAILS	BY Dali Zhou	CHECKED Catalino Enriquez
QUANTITIES	BY Catalino Enriquez	CHECKED James Lacy

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE No. 33M5785
 POST MILE

SFOBB WAREHOUSE
 SITE MONUMENT SIGN LIGHTING

SHEET **EE3-1** OF