

ABBREV DESCRIPTION	ABBREV DESCRIPTION	SYMBOL	ABBREV	DESCRIPTION
A	I		I	SUPPLY AIR DUCT (UP/TOWARD)
ABV	INSUL		INSUL	RETURN AIR DUCT (UP/TOWARD)
AC	INV		INV	EXHAUST AIR DUCT (UP/TOWARD)
ACDR	IPLV		IPLV	OUTSIDE AIR DUCT (UP/TOWARD)
ACFM	K		K	SUPPLY AIR DUCT (DOWN/AWAY)
ACPL	KW		KW	RETURN AIR DUCT (DOWN/AWAY)
ACPL	L		L	EXHAUST AIR DUCT (DOWN/AWAY)
ACPL	LAT		LAT	OUTSIDE AIR DUCT (DOWN/AWAY)
ACPL	LBS		LBS	SUPPLY AIR DUCT (UP/TOWARD)
ACPL	LD		LD	RETURN AIR DUCT (UP/TOWARD)
ACPL	LD		LD	EXHAUST AIR DUCT (UP/TOWARD)
ACPL	LD		LD	OUTSIDE AIR DUCT (UP/TOWARD)
ACPL	LD		LD	SUPPLY AIR DUCT (DOWN/AWAY)
ACPL	LD		LD	RETURN AIR DUCT (DOWN/AWAY)
ACPL	LD		LD	EXHAUST AIR DUCT (DOWN/AWAY)
ACPL	LD		LD	OUTSIDE AIR DUCT (DOWN/AWAY)
ACPL	LD		LD	ELBOW WITH TURNING VANES (AIRFOIL TYPE)
ACPL	LD		LD	DUCT WITH INTERIOR LINING (SIZE INDICATED IS INSIDE CLEAR)
ACPL	LD		LD	DUCT RISE WITH RESPECT TO AIR FLOW
ACPL	LD		LD	DUCT DROP WITH RESPECT TO AIR FLOW
ACPL	LD		LD	FLEXIBLE CONNECTION
ACPL	LD		LD	ACCESS DOOR (AD)
ACPL	LD		LD	SOUND TRAP
ACPL	LD		LD	EXISTING DUCT TO REMAIN
ACPL	LD		LD	EXISTING DUCT TO BE REMOVED
ACPL	LD		LD	DOOR UNDERCUT
ACPL	LD		LD	DOOR LOUVER
ACPL	LD		LD	SUPPLY AIR CEILING DIFFUSER WITH DIRECTION OF THROWS AS INDICATED ON PLANS
ACPL	LD		LD	RETURN REGISTER OR GRILLE
ACPL	LD		LD	EXHAUST REGISTER OR GRILLE
ACPL	LD		LD	EXHAUST FAN
ACPL	LD		LD	FLEXIBLE DUCT (DOUBLE LINE)
ACPL	LD		LD	AUTOMATIC CONTROL DAMPER (MOTORIZED DAMPER)
ACPL	LD		LD	MANUAL VOLUME DAMPER
ACPL	LD		LD	FIRE DAMPER
ACPL	LD		LD	SMOKE FIRE DAMPER
ACPL	LD		LD	SMOKE DAMPER
ACPL	LD		LD	BACK DRAFT DAMPER
ACPL	LD		LD	C/C=COOLING COIL
ACPL	LD		LD	H/C=HOT WATER HEATING COIL
ACPL	LD		LD	E/H=ELECTRIC DUCT HEATER
ACPL	LD		LD	FAN OR BLOWER
ACPL	LD		LD	PNEUMATIC PIPING
ACPL	LD		LD	ELECTRICAL WIRING
ACPL	LD		LD	CONTROL AIR MAIN
ACPL	LD		LD	MANUAL SWITCH
ACPL	LD		LD	ROOM THERMOSTAT
ACPL	LD		LD	TEMPERATURE SENSOR
ACPL	LD		LD	HUMIDITY SENSOR
ACPL	LD		LD	SMOKE DETECTOR
ACPL	LD		LD	ITEM FURNISHED AND INSTALLED UNDER DIVISION 16
ACPL	LD		LD	POINT OF CONNECTION
ACPL	LD		LD	DIAMETER
ACPL	LD		LD	DOOR UNDERCUT
ACPL	LD		LD	UNIT CONTROL PANEL
ACPL	LD		LD	UNDERGROUND
ACPL	LD		LD	UP THRU ROOF
ACPL	LD		LD	MANUAL SWITCH
ACPL	LD		LD	ROOM THERMOSTAT
ACPL	LD		LD	TEMPERATURE SENSOR
ACPL	LD		LD	HUMIDITY SENSOR
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ACPL	LD		LD	ITEM FURNISHED AND INSTALLED UNDER DIVISION 16
ACPL	LD		LD	POINT OF CONNECTION
ACPL	LD		LD	DIAMETER

MECHANICAL GENERAL NOTES	SCOPE OF WORK
<ol style="list-style-type: none"> <li>THESE NOTES AND LEGENDS ARE TYPICAL FOR THE ENTIRE JOB UNLESS STATED OTHERWISE ANY CONFLICTS OF WORK SHALL BE BROUGHT TO THE ENGINEERS ATTENTION BY THE CONTRACTOR PRIOR TO PURCHASE OF EQUIPMENT OR COMMENCEMENT OF WORK.</li> <li>AIR MOVING SYSTEMS OVER 2000 CFM SHALL HAVE SMOKE DETECTORS IN THE SUPPLY AIR DUCT, THEY SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION, DETECTORS TO BE SUPPLIED BY MECHANICAL CONTRACTOR.</li> <li>ELECTRICAL DISCONNECTS TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.</li> <li>ALL RECTANGULAR JOINT TO BE SEALED WITH MASTIC.</li> <li>ALL ROUND DUCT JOINTS SHALL BE TAPED WITH DUCT TAPE OR METAL TAPE.</li> <li>ALL WORK SHALL MEET LOCAL AND STATE HVAC CODES AND ENERGY CODES.</li> <li>DUCTS SHALL BE BRACED &amp; GUIDED TO PREVENT LATERAL AND HORIZONTAL SWAYING.</li> <li>ALL FITTINGS AND TAKE-OFFS ARE TO BE CONSTRUCTED AS SHOWN IN SMACNA DETAIL.</li> <li>THERMOSTAT TO BE MOUNTED 48" A.F.F. UNLESS OTHERWISE NOTED.</li> <li>PROVIDE OPERATIONS AND MAINTENANCE MANUALS FOR ALL EQUIPMENT AS REQUIRED IN THE SPECIFICATIONS.</li> <li>ALL EXPOSED SPIRAL DUCTWORK TO BE PAINT GRIP SPIRAL.</li> <li>MATERIALS EXPOSED WITH-IN DUCTS OR PLENUMS SHALL HAVE A FLAME-SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH UBC-STANDARD 8-1.</li> <li>ALL APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURITY FASTENED IN PLACE PER BUILDING CODE REQUIREMENTS.</li> <li>ROOF MOUNTED EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES.</li> <li>ALL APPLIANCES AND PLUMBING VENTS AND THE DISCHARGE OUTLET OF EXH. FANS SHALL BE AT LEAST 10 FT IN A HORIZONTAL DIRECTION, OR 3 FT ABOVE THE OUTSIDE AIR INTAKES FOR HVAC UNITS.</li> <li>INTERIOR SPACES INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH ACTIVE OR PASSIVE SPACE-HEATING SYSTEMS CAPABLE OF MAINTAINING MINIMUM 68 DEGREE FAHRENHEIT AT A LEVEL 3' OFF OF THE FLOOR.</li> </ol>	<p>1. NEW RESTROOM EXHAUST</p>

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COMBS + MIGUEL

**CITY OF SANTA CLARITA BUILDING & SAFETY**

**APPROVED**  
Under SCMC Titles 18, 19, 20, 21, 24, 25  
Dec 10, 2024  
M. Samuel

**BLD24-01810 (MEP PLANS)**

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28043 Smyth Drive, Suite # 201, Valencia, CA 91355  
(661) 244-2772 · Fax: (661) 244-2773  
www.nai-engineers.com

PLAN CHECK RESUBMITTAL 11-22-24  
PLAN CHECK RESUBMITTAL 11-01-24  
PLAN CHECK SUBMITTAL 09-16-24  
ADACOMPLIANT RESTROOM, 2ND FLOOR OF FELLOWSHIP HALL  
**FIRST PRESBYTERIAN CHURCH OF NEWHALL**  
24317 NEWHALL AVE  
NEWHALL, CA 91321  
PLAN CHECK NO:  
**BLD24-01810**

**GENERAL NOTES, ABBR. & SYMBOLS**

PROJECT NO. **24-072**

**M-100**

## GENERAL SPECIFICATIONS

1. FURNISH ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION, TESTING AND SERVICES NECESSARY FOR A REASONABLY INCIDENTAL TO THE PROPER AND SATISFACTORY INSTALLATION OF THE WORK INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN, INCLUDING MODIFICATIONS, DEMOLITION, AND EXTENSION OF EXISTING DUCTING AND FINAL CONNECTIONS TO ALL EQUIPMENT REQUIRING SERVICES. SCOPE OF WORK INCLUDED CONSISTS OF THE FOLLOWING MAJOR ITEMS AND ALL WORK INCIDENTAL THERETO.
  - A. DUCTWORK
  - B. AIR DISTRIBUTION SYSTEM.
  - C. HVAC CONTROLS.
  - D. INSULATION.
2. WORK SPECIFIED IN OTHER SECTIONS SHALL INCLUDE ALL CONDUITS, DISCONNECTS, LINE VOLTAGE WIRING AND CUTTING AND PATCHING.
3. IN ADDITION TO THE REQUIREMENTS OF ALL GOVERNING CODES, ORDINANCES AND AGENCIES, CONFORM TO THE FOLLOWING CODES AND STANDARDS.
  - A. CALIFORNIA BUILDING CODE – CBC, 2022 EDITION.
  - B. CALIFORNIA MECHANICAL CODE – CMC, 2022 EDITION.
  - C. CALIFORNIA ENERGY CODE – T24, 2022 EDITION.
  - D. CALIFORNIA FIRE CODE.
  - E. CALIFORNIA ADMINISTRATIVE CODE.
  - F. ALL OTHER REGULATORY AGENCIES HAVING JURISDICTION OVER THIS WORK.
  - G. GUARANTEES: FURNISH A WRITTEN GUARANTEE FORM REQUIRED UNDER DIVISION 1, AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR ONE YEAR. GUARANTEE SHALL INCLUDE REPAIR OF DAMAGE TO, OR REPLACEMENT (IF SO REQUIRED) OF ANY PART OF PREMISES CAUSED BY WATER AND/OR OTHER UTILITIES.
4. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS IMPOSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES, WHICH MAY BE REQUIRED. CAREFULLY INVESTIGATE THE CONDITIONS SURROUNDING THE INSTALLATION OF THIS WORK, FURNISH THE NECESSARY FITTINGS, ACCESSORIES AND DEVICES WHICH MAY BE REQUIRED TO COMPLETE THE INSTALLATION. VERIFY THAT ADEQUATE SPACE IS AVAILABLE TO INSTALL WORK AS SPECIFIED AND INDICATED, PRIOR TO DETAILING AND FABRICATION.
5. THE GENERAL ARRANGEMENT INDICATED ON THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. IN THE EVENT A FIELD CONDITION ARISES WHICH MAKES IT IMPOSSIBLE OR IMPRACTICAL TO INSTALL WORK AS SHOWN ON DRAWINGS, SUBMIT, IN WRITING THE PROPOSED "DEPARTURES" TO THE PROJECT MANAGER FOR HIS APPROVAL PRIOR TO THE INSTALLATION.
6. THE MECHANICAL EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE UNIFORM BUILDING AND MECHANICAL CODES, AND REQUIREMENTS OF ALL LEGALLY CONSTITUTED AUTHORITIES HAVING JURISDICTION, INCLUDING THE SAFETY ORDERS OF THE STATE OF CALIFORNIA INDUSTRIAL ACCIDENT.
7. BEFORE BIDDING ON THIS WORK, CONTRACTORS SHALL MAKE A CAREFUL EXAMINATION OF THE PREMISES AND SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH THE REQUIREMENTS OF CONTRACT. BY THE ACT OF SUBMITTING A PROPOSAL FOR THE WORK INCLUDED IN THIS CONTRACT, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION, AND THAT HE/SHE IS FAMILIAR WITH AND ACCEPTS ALL CONDITIONS OF THE SITE.
8. PROTECT ALL WORK, EQUIPMENT AND MATERIALS AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES DIRECTLY OR INDIRECTLY CAUSED BY HIM AND HIS WORKMEN. PROTECT ALL EQUIPMENT AND MATERIALS AGAINST DIRT, WATER, CHEMICAL AND MECHANICAL DAMAGE. THOROUGHLY CLEAN ALL WORK AND SURFACES AT COMPLETION AND ACCEPTANCE OF WORK BY THE PROJECT MANAGER.
9. THE LOCATION OF APPARATUS AND EQUIPMENT INDICATED ON THE DRAWINGS ARE APPROXIMATE. DUCTS AND PIPING SHALL BE INSTALLED IN SUCH A MANNER TO AVOID ALL OBSTRUCTIONS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGES CLEAR. THE LOCATIONS OF DIFFUSERS, REGISTERS AND GRILLES SHALL BE VERIFIED WITH THE PROJECT MANAGER.
10. USE OF WORDS "PROVIDE", "FURNISH" OR "INSTALL" MEANS ITEM OF FACILITY IS TO BE BOTH FURNISHED AND INSTALLED UNLESS EXPRESSLY STATED OTHERWISE.
11. COORDINATE FIELD DETAILS WITH OTHER TRADES TO AVOID CONSTRUCTION DELAYS AND MAINTAIN REQUIRED MINIMUM CLEARANCES.
12. SYMBOLS FOR VARIOUS OUTLETS, DUCT AND PIPING SYSTEMS ARE NOTED ON PLANS, AND SHALL BE STRICTLY ADHERED TO IN CONNECTION WITH ALL WORK. SHOULD CONTRACTOR BE IN DOUBT REGARDING EXACT MEANING AND INTENT OF VARIOUS SYMBOLS USED, HE/SHE SHALL CONFER WITH PROJECT MANAGER FOR INTERPRETATION WHOSE DECISION SHALL BE FINAL.
13. PRODUCT, MATERIAL AND EQUIPMENT SHALL MEET REQUIREMENTS OF THE CONTRACT DOCUMENTS, SHALL BE NEW AND FREE FROM DEFECTS, AND SHALL CONFORM WITH THE PUBLISHED CONSTRUCTION INDUSTRY STANDARDS. EQUIPMENT SHALL BE UNDERWRITERS LABORATORY LISTED AND LABELED WHERE REQUIRED BY CODE.
14. AS SOON AS POSSIBLE AND WITHIN FOURTEEN DAYS AFTER AWARD OF THE CONTRACT, AND BEFORE PLACING THE ORDER FOR THE MATERIALS AND EQUIPMENT, SUBMIT (SIX) BOUND BOOKLETS CONTAINING A COMPLETE LIST OF MATERIALS, EQUIPMENT AND SHOP DRAWINGS TO THE PROJECT MANAGER FOR REVIEW AND APPROVAL. SUBMIT THE FOLLOWING SHOP DRAWINGS, AND CUT SHEETS.
  - A. DUCTWORK, AIR INLETS AND OUTLETS.
  - B. HANGERS AND SUPPORTS.
  - C. HVAC EQUIPMENT.
  - D. HVAC CONTROLS.

- E. TEST AND BALANCE AGENCY QUALIFICATIONS
- F. DEMOLITION PLAN.

15. WHEN ONLY ONE MANUFACTURER'S NAME IS CALLED OUT, THE CONTRACTOR, MAY SUBMIT SUBSTITUTE EQUIPMENT FOR APPROVAL, BUT IF IT IS REJECTED BY THE OWNER, THE NAMED MANUFACTURER SHALL BE USED.
16. CONTRACTOR SHALL PROVIDE AND MAINTAIN A COMPLETE AND UP-TO-DATE SET OF AS-BUILT DRAWINGS AT THE JOB SITE, AND DAILY RECORD ALL CHANGES AND DEVIATIONS FROM THE ORIGINAL CONSTRUCTION DOCUMENTS. UPON COMPLETION OF THE WORK, THE RECORD AS-BUILT DRAWINGS SHALL BE DELIVERED TO THE OWNER
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER SCHEDULING OF HIS/HER WORK TO INSURE THAT THE EXISTING SYSTEMS TO BE EXTENDED OR CONNECTED INTO ARE KEPT IN OPERATION DURING THE ENTIRE PERIOD OF CONSTRUCTION. WHEN SERVICE INTERRUPTIONS ARE UNAVOIDABLE, THE CONTRACTOR SHALL ADVISE THE OWNER AT LEAST TWO WEEKS IN ADVANCE OF PROPOSED DATE OF SHUT-DOWN TO DETERMINE AT WHAT TIMES THE CONNECTION CAN BE MADE TO MINIMIZE THE INTERRUPTIONS AND INCONVENIENCES TO THE NORMAL ON-SITE OPERATIONS. THE SCHEDULING OF WORK AS DETERMINED FROM CONFERRING WITH THE OWNER, SHALL BE STRICTLY ADHERED TO. NO EXTRAS WILL BE ALLOWED FOR OVERTIME WORK NECESSITATED BY THIS CONDITION.

18. PROVIDE MAINTENANCE MANUAL WITH NAME, ADDRESS AND TELEPHONE NUMBER OF PERSON TO CONTACT FOR EQUIPMENT MAINTENANCE AT OFFICE OF THE CONTRACTOR.

19. UPON COMPLETION OF WORK, FURNISH THE OWNER WITH A PRINTED MANUFACTURER'S WARRANTIES, COMPLETE WITH MATERIAL AND EQUIPMENT INCLUDED AND EXPIRATION DATES. EXTENDED WARRANTIES WILL BE REQUIRED FOR MATERIAL END EQUIPMENT REPLACED DURING WARRANTY.

20. TEST AND ADJUST THE ENTIRE INSTALLATION FOR PROPER OPERATION. PAY COST OF LABOR, MATERIALS AND EQUIPMENT AS REQUIRED FOR SYSTEM TESTING AND ADJUSTING. TAKE DUE PRECAUTIONS TO PREVENT DAMAGE TO SURROUNDING STRUCTURE OR ITS CONTENTS. REPAIR ALL DAMAGES SO CAUSED AT NO ADDITIONAL COST TO THE PROJECT.

21. REMOVE FROM SITE ALL PACKING CARTONS, SCRAP MATERIALS AND OTHER RUBBISH RESULTING FROM OPERATION OF WORK UNDER THIS SECTION OF CONTRACT ON A DAILY BASIS.

22. ALL MATERIALS USED ON THIS PROJECT SHALL BE NEW, BEST OF THEIR KIND AND FREE OF DEFECTS.

### 23. EQUIPMENT INSTALLATION:

- A. ALL EQUIPMENT PROVIDED UNDER THIS SECTION OF THE SPECIFICATIONS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

- B. SHOULD THE DRAWINGS OR SPECIFICATIONS INDICATE THE EQUIPMENT IS TO BE INSTALLED IN A MANNER NOT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, THE CONTRACTOR SHALL OBTAIN DIRECTION FROM THE PROJECT MANAGER PRIOR TO PROCEEDING WITH THE INSTALLATION. IF THE CONTRACTOR PROCEEDS WITH THE INSTALLATION WITHOUT OBTAINING DIRECTION FROM THE PROJECT MANAGER, THE CONTRACTOR SHALL BE REQUIRED TO MAKE ALL REQUIRED CORRECTIONS TO THE INSTALLATION AT NO ADDITIONAL COST TO THE OWNER.

- C. SEISMIC BRACING SHALL COMPLY WITH ASCE7 GUIDELINES.

- D. PROVIDE MINIMUM OF 30-INCHES CLEAR WORKING SPACE FOR ACCESS TO FAN MOTORS, CONTROL DAMPERS AND AIR FILTERS.

- E. HANGERS FOR EQUIPMENT SHALL BE FASTENED TO STRUCTURAL MEMBERS. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION AND INSTALLATION.

- F. MISCELLANEOUS SUPPORTS, WALL BRACKETS, ETC.: PROVIDE WHERE REQUIRED IN ACCORDANCE WITH THE BEST STANDARD PRACTICES OF THE TRADE. SUBMIT SHOP DRAWINGS FOR ALL FABRICATED SUPPORTS.

### 24. DUCTWORK:

- A. LOW PRESSURE AIR CONDITIONING DUCTWORK SHALL BE METAL INSTALLED IN ACCORDANCE WITH CHAPTER 6 OF CALIFORNIA MECHANICAL CODE AND "SMACNA" STANDARDS.

- B. FLEXIBLE DUCTS SHALL BE FACTORY FABRICATED ASSEMBLY, MADE OF GALVANIZED STEEL WIRE HELIX, FIBERGLASS INSULATION, VINYL JACKET AND NON-PERFORATED INNER LINING, U.L. LISTED AND LABELED, HAVING FLAME/SMOKE RATING OF 25/50, OR LOWER.

- C. VOLUME DAMPERS SHALL BE PROVIDED IN EACH BRANCH DUCT TO EACH DIFFUSER AND REGISTER, AND SHALL BE OPPOSED BLADE ADJUSTABLE TYPE.

- D. ALL DUCT DIMENSIONS SHOWN, INDICATE NET INSIDE DIMENSIONS, CONTRACTOR TO COMPENSATE FOR INSIDE LINING.

### 25. INSULATION:

- A. INSULATION SHALL BE U.L. LISTED, IN COMPLIANCE WITH FLAME-SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF THE UNIFORM MECHANICAL CODE AND STATE OF CALIFORNIA ENERGY COMMISSION.

- B. INTERNALLY LINE ALL EXPOSED SUPPLY AIR DUCTWORK WITH 1" THICK ARMACELL AP/ARMAFLEX DUCT LINER, 3 lbs/cu ft DENSITY, WITH R VALUE =8. DUCT LINER SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

- C. PROVIDE 1" THICK, 1 1/2 lb DENSITY, R VALUE OF 8.

- D. FIBERGLASS WRAP INSULATION. SECURE INSULATION WITH WIRE.

### 26. VIBRATION ISOLATION:

- A. ALL MECHANICAL EQUIPMENT AND RELATED PIPING SHALL BE ISOLATED FROM THE BUILDING STRUCTURE IN SUCH A MANNER THAT NORMAL OPERATION DOES NOT INTERFERE WITH OR DISTURB THE BUILDING OCCUPANTS.

- B. ALL VIBRATION ISOLATION DEVICES SHALL PROVIDE UNIFORM STATIC DEFLECTION AND SHALL BE SIZED TO OPERATE IN THE LINEAR PORTION OF THE "LOAD VS. STATIC "S" DEFLECTION " CURVE. ANY VIBRATION DEVICE THAT HAS BEEN IMPROPERLY SIZED OR IMPROPERLY INSTALLED SHALL BE REMOVED AND REPLACED AT NO COST TO THE OWNER.

- C. VIBRATION ISOLATORS SHALL INCORPORATE EARTHQUAKE RESTRAINTS OR CONTRACTOR SHALL PROVIDE PROPER RESTRAINTS.

### 27. EQUIPMENT AND PIPING IDENTIFICATION

- A. ALL EQUIPMENT FURNISHED UNDER THIS SECTION SHALL BE PROVIDED WITH THE MANUFACTURER'S METAL IDENTIFICATION LABELS SECURELY ATTACHED AND SHOWING ALL PERTINENT DATA, INCLUDING PERFORMANCE CHARACTERISTICS, SIZE, MODEL AND SERIAL NUMBER. LABELS SHALL NOT BE OBFUSCATED IN ANY MANNER.

### 28. CLEAN-UP

- A. AFTER ALL HEATING, VENTILATING AND AIR CONDITIONING WORK HAS BEEN TESTED AND APPROVED, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL PARTS OF THE EQUIPMENT INSTALLATIONS. EXPOSED PARTS WHICH ARE NOT TO BE PAINTED SHALL BE THOROUGHLY CLEANED OF CEMENT PLASTER AND OTHER MATERIALS AND ALL GREASE AND OIL SPOTS REMOVED WITH SOLVENT. EXPOSED ROUGH METAL WORK SHALL BE CAREFULLY BRUSHED DOWN WITH STEEL BRUSHES TO REMOVE RUST AND OTHER SPOTS AND LEFT IN PROPER CONDITION TO RECEIVE PAINTER'S FINISH.

### 29. AS-BUILTS DRAWINGS:

- A. CONTRACTOR TO SUBMIT A COMPLETE SET OF MECHANICAL AS BUILT DRAWINGS AT THE END OF CONSTRUCTION TO THE OWNER; AS BUILT DRAWINGS SHALL INDICATE ALL CHANGES MADE TO CONSTRUCTION DRAWINGS DURING CONSTRUCTION.

### 30. TEST AND BALANCE:

- A. GENERAL: THE CONTRACTOR SHALL PERFORM ALL TESTING TO THE ENTIRE SATISFACTION OF THE OWNER.

- B. TEST AND ADJUST THE ENTIRE INSTALLATION FOR PROPER OPERATION. PAY COST OF LABOR, MATERIALS AND EQUIPMENT AS REQUIRED FOR SYSTEM TESTING AND ADJUSTING. TAKE DUE PRECAUTIONS TO PREVENT DAMAGE TO SURROUNDING STRUCTURE OR ITS CONTENTS. REPAIR ALL DAMAGES SO CAUSED AT NO ADDITIONAL COST TO THE PROJECT.

- C. THE CONTRACTOR SHALL SET ALL DAMPERS AND COMPLETELY BALANCE THE VARIOUS AIR DISTRIBUTION SYSTEMS SO THAT THE VOLUME OF AIR INDICATED ON THE DRAWINGS IS BEING DELIVERED TO THE AIR OUTLETS, HE SHALL ADJUST AND READJUST THIS PART OF THE WORK UNTIL THE OPERATION COMPLIES WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.

- D. SUBMIT A COMPLETE AIR TEST AND BALANCE REPORT TO THE OWNER REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO COMPLETION AND ACCEPTANCE OF THE PROJECT, COMPLAING WITH T-24 CALCULATIONS.

### 31. COMMISSIONING

- A. START-UP AND COMMISSIONING SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR. ITEMS OF COMMISSIONING SHALL INCLUDE BUT NOT NECESSARILY LIMITED TO THE FOLLOWING:

- A.A. VERIFY ALL ELECTRICAL INTERLOCKS AND CONTROLS.
- A.B. VERIFY ACCEPTABLE NOISE LEVEL HAS BEEN MAINTAINED.
- A.C. VERIFY ACCURACY OF TAB REPORT.
- A.D. VERIFY AND DOCUMENT THAT ALL SYSTEMS COMPLY WITH THE REQUIREMENTS OF CONTRACT DOCUMENTS.
- A.E. VERIFY FUNCTIONAL PERFORMANCE TESTING OF ALL SYSTEMS.
- A.F. VERIFY COMPLETION OF THE AS-BUILT RECORDS.
- A.G. CONDUCT OPERATIONS AND MAINTENANCE PERSONNEL TRAINING.
- A.H. COMPLETE THE FINAL COMMISSIONING REPORT.
- A.I. COMPLETE THE SYSTEMS OPERATION AND MAINTENANCE MANUAL.
- A.J. TURNOVER ALL DOCUMENTS.

THESE STANDARDS.

2. AUTOMATIC TEMPERATURE CONTROL DEVICES FOR THE REGULATION OF SPACE TEMPERATURE SHALL BE CAPABLE OF BEING SET FROM 55°F. TO 85°F., AND HAVE THE ABILITY TO OPERATE THE HEATING AND COOLING IN SEQUENCE, IF BOTH ARE PROVIDED. CONTROL SHALL BE ADJUSTABLE TO PROVIDE A RANGE OF UP TO 10F. BETWEEN FULL HEATING AND FULL COOLING, AND HAVE THE CAPABILITY OF TERMINATING ALL HEATING AT A MAXIMUM OF 70°F. AND ALL COOLING AT A MINIMUM OF 78°F.
3. TRANSVERSE JOINTS FOR ALL AIR SUPPLY DUCTS SHALL BE SEALED WITH AN APPROVED DUCT SEALANT.
4. CONTRACTOR SHALL PROVIDE A MAINTENANCE LABEL AFFIXED TO MECHANICAL EQUIPMENT AND SHALL PROVIDE A MAINTENANCE MANUAL FOR THE OWNER'S USE.
5. ALL GAS FIRED EQUIPMENT SHALL HAVE INTERMITTENT IGNITION DEVICE.
6. ALL OUTSIDE AIR INTAKES, GRAVITY RELIEF CAPS OR DUCTS AND EXHAUST FANS, SHALL HAVE BACKDRAFT DAMPERS OR EQUIVALENT.
7. INSULATION:

- A. INSULATION SHALL BE U.L. LISTED, IN COMPLIANCE WITH FLAME-SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF THE UNIFORM MECHANICAL CODE AND STATE OF CALIFORNIA ENERGY COMMISSION.

- B. INTERNALLY LINE ALL EXPOSED SUPPLY AIR DUCTWORK WITH 1" THICK ARMACELL AP/ARMAFLEX DUCT LINER, 3 lbs/cu ft DENSITY, WITH R VALUE =8. DUCT LINER SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

- C. PROVIDE 1" THICK, 1 1/2 lb DENSITY, R VALUE OF 8.

- D. FIBERGLASS WRAP INSULATION. SECURE INSULATION WITH WIRE.

## CITY OF SANTA CLARITA BUILDING & SAFETY

**APPROVED**

Under SCMC Titles  
18, 19, 20, 21, 24, 25

**Dec 10, 2024**

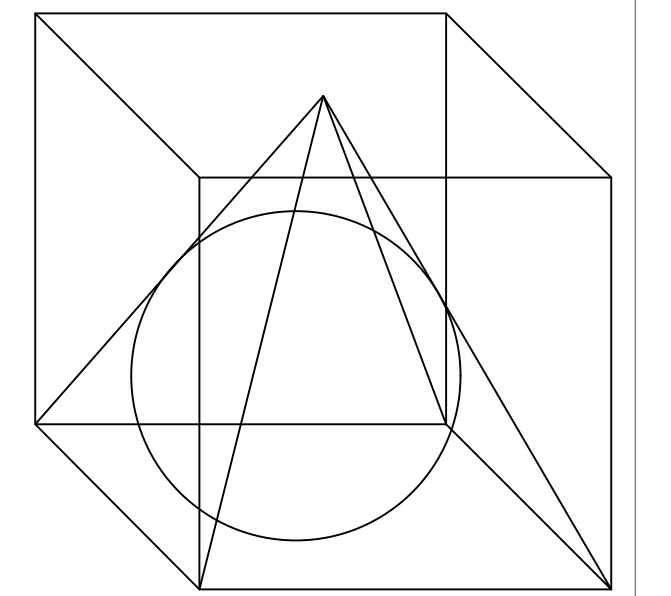
**M. Samuel**



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C O M B S + M I G U E L



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PLAN CHECK RESUBMITTAL 11-22-24

PLAN CHECK RESUBMITTAL 11-01-24

PLAN CHECK SUBMITTAL 09-16-24

ADACOMPLIANT RESTROOM, 2ND FLOOR OF FELLOWSHIP HALL

## FIRST PRESBYTERIAN CHURCH OF NEWHALL

24317 NEWHALL AVE  
NEWHALL, CA 91321

PLAN CHECK NO:

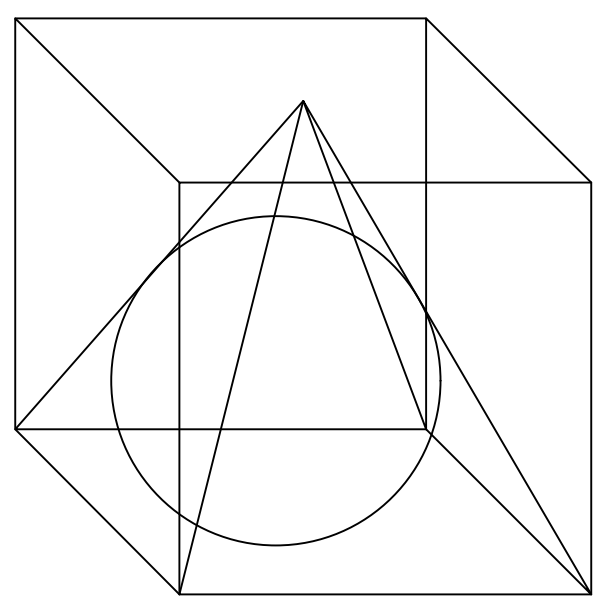
**BLD24-01810**

## GENERAL SPECIFICATION

PROJECT NO. **24-072**

----

**M-101**



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**KEY NOTES:**

1. PROVIDE GOOSENECK TERMINATION MIN. 12" ABOVE ROOF.
2. ELECTRICAL WALL HEATER
3. MODEL 83 INTEGRAL THERMOSTAT

**GENERAL NOTES:**

- A. CONTRACTOR SHALL BE RESPONSIBLE FOR EXACT DUCT ROUTING AND LOCATION OF DUCT PENETRATIONS THRU ROOF (TYPICAL FOR ALL DUCT THRU ROOF)
- G. ALL PLUMBING VENTS AND EXHAUST OUTLETS SHALL BE TEN FEET AWAY OR THREE FEET ABOVE INTAKES OR OPENINGS INTO THE BUILDING.

**EXHAUST FAN SCHEDULE**

TAG	QTY	ROOM	LOCATION	MANUFACTURER	MODEL NO.	AIRFLOW (MIN)	S.P.	ELECTRICAL	HP	WEIGHT	COMMENTS
EF 1	1	RESTROOM	CEILING	GREENHECK	SP-B150	70	0.25	115/1/60	0.1	10	CEILING MOUNTED FAN, DIRECT DRIVE SINGLE SPEED MOTOR, CONTROL VIA LIGHT SWITCH. FRAMING AND POWER BY OTHERS. ALSO SEE NOTE 1, 2.

**WALL HEATER SCHEDULE**

TAG	QTY	ROOM	LOCATION	MANUFACTURER	MODEL NO.	AIRFLOW	ELECTRICAL WATTS/VOLTS/AMPS	WEIGHT	COMMENTS
WH 1	1	RESTROOM	WALL	BROAN	165F	70	115/1/60	10	FAN-FORCED WALL HEATERS

**CITY OF SANTA CLARITA  
BUILDING & SAFETY**

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Under SCMC Titles  
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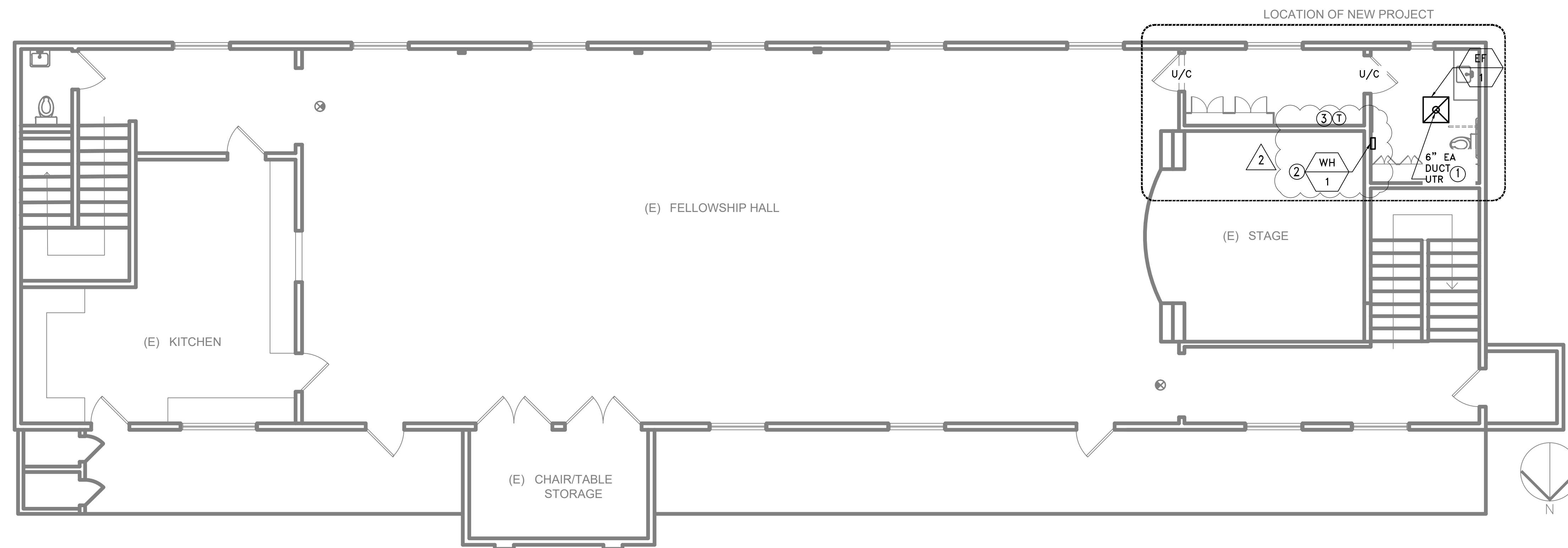
**Dec 10, 2024**

**M. Samuel**



**BLD24-01810 (MEP PLANS)**

The approved plans must be available at the construction site at all times. Changes or alterations to approved plans shall not be made without written permission from the City of Santa Clarita Building & Safety Division. The approval of these plans shall not be construed to permit or approve any violation of the applicable codes, ordinances, or other laws.



PLAN CHECK RESUBMITTAL 11-22-24  
PLAN CHECK RESUBMITTAL 11-01-24  
PLAN CHECK SUBMITTAL 09-16-24

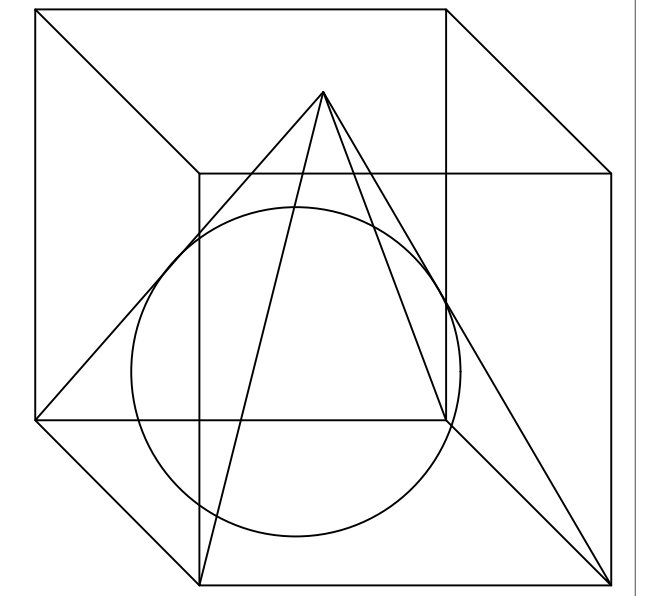
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NEWHALL, CA 91321

PLAN CHECK NO:  
**BLD24-01810**

**HVAC PLAN  
& EQUIPMENT  
SCHEDULES**

PROJECT NO. **24-072**

**M-201**



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CITY OF SANTA CLARITA BUILDING & SAFETY

APPROVED Under SCMC Titles 18, 19, 20, 21, 24, 25

Dec 10, 2024 M. Samul



BLD24-01810 (MEP PLANS)

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD (Page 1 of 14) Fellowship Hall 2024-10-30

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD (Page 2 of 14) B. PROJECT SUMMARY

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD (Page 3 of 14) C1. COMPLIANCE SUMMARY

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD (Page 4 of 14) C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD (Page 5 of 14) C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD (Page 6 of 14) C7. ENERGY USE SUMMARY

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD (Page 7 of 14) C8. ENERGY USE INTENSITY (EUI)

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD (Page 8 of 14) G4. NONRESIDENTIAL AIR BARRIER

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD (Page 9 of 14) G7A. FENESTRATION ASSEMBLY SUMMARY

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601

PLAN CHECK RESUBMITTAL 11-22-24 PLAN CHECK RESUBMITTAL 11-01-24 PLAN CHECK SUBMITTAL 09-16-24

FIRST PRESBYTERIAN CHURCH OF NEWHALL

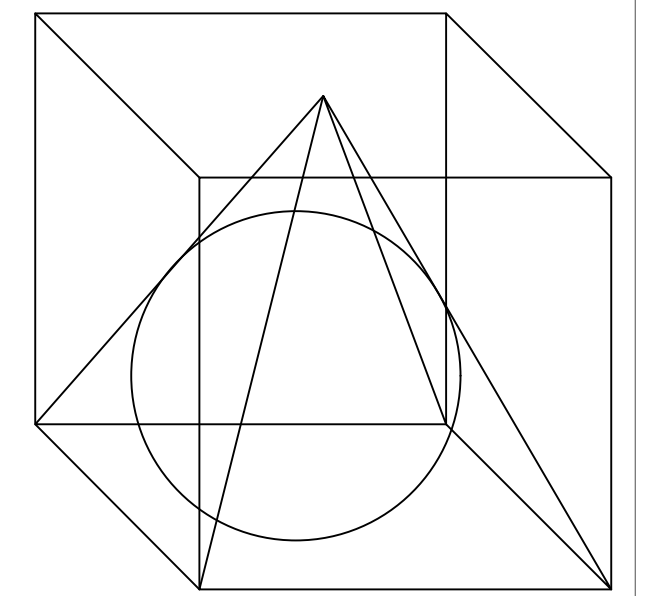
24317 NEWHALL AVE NEWHALL, CA 91321 PLAN CHECK NO: BLD24-01810

MECHANICAL TITLE 24

PROJECT NO. 24-072

M-600





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PLAN CHECK RESUBMITTAL	11-22-24
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PLAN CHECK NO:  
**BLD24-01810**

**MECHANICAL TITLE 24**

PROJECT NO. **24-072**

**M-601**

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD													NRCC-PRF-E
Nonresidential Performance Compliance Method													(Page 10 of 14)
<b>H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY</b>													
01	02	03	04	05	06	07	08	09	10	11	12	13	
Name or Item Tag	Qty	Design OA CFM	Supply Fan CFM	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	Status <sup>1</sup>		
Space Heater System	1	0	70	0.01	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N	
<sup>1</sup> Status: N - New, A - Altered, E - Existing													
<b>H5. GENERAL EXHAUST FAN SUMMARY</b>													
01	02	03	04	05	06	07	08						
System ID	Zone Name	Qty	CFM	Power	Power Units	Continuous Operation?	Status <sup>1</sup>						
Restroom Zone3-EF	1-Restroom Zone	1	100	0.1	BHP	No	N						
<sup>1</sup> Status: N - New, A - Altered, E - Existing													
<b>H8. SYSTEM SPECIAL FEATURES</b>													
01	02	03	04										
System Name	Equipment Type	Interlocks per 140.4(n) <sup>1</sup>	Other Special Features and Controls										
Undefined Plant1 - SHW	Service Hot Water	N/A	Fixed Temperature Control										
Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.													
<sup>1</sup> Yes = Interlocks are provided, No = Interlocks are not provided, NA means no operable openings.													
<b>H9. NONRESIDENTIAL / COMMON USE AREA &amp; HOTEL/MOTEL VENTILATION</b>													
01	02	03	04	05	06	07							
Zone Name	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both							
1-Restroom Zone	Exhaust - Toilets, public	0.9	0	100	180	N/A							
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601 Report Generated: 2024-10-30 14:57:56 Compliance ID: EnergyPro-20080-1024-0079													

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD													NRCC-PRF-E
Nonresidential Performance Compliance Method													(Page 11 of 14)
<b>H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY</b>													
01	02	03	04	05	06	07	08	09	10	11	12		
System ID	System Type	Qty	Rated Capacity (kBtu/h)	Airflow (cfm)	Fan	VSD							
Space Heater System	Furnace	1	3.41	0	70	N/A	N/A	0.01	BHP	Continuous			
PropNoClg-NonResZnSys	Single Zone Air Conditioner	1	0	5.3	172.81	N/A	N/A	0	W/cfm	Cycling			
<b>I1. WATER HEATER EQUIPMENT SUMMARY</b>													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input Unit	Efficiency	Efficiency Unit	Tank Insulation R-value In/Ext	Standby Loss Fraction	1st Hc Rating or Flow Rate (gal)	Heat Pump Type	Tank Location or Ambient Condition	
Instantaneous Electric SKZ		N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
<b>K1. INDOOR CONDITIONED LIGHTING GENERAL INFO</b>													
01	02	03	04	05	06								
Occupancy Type <sup>1</sup>	Conditioned Floor Area <sup>2</sup> (ft <sup>2</sup> )	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance	Area Category Footcotes (Watts)	Area Category Footcotes (Watts)							
Restroom	180	117	0	0	0	0							
Building Totals:	180	117	0	0	0	0							
<sup>1</sup> See Table 140.6-C													
<sup>2</sup> See NRCC-LT-E for unconditioned spaces													
<sup>3</sup> Lighting information for existing spaces modeled is not included in this table													
<b>K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL</b>													
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601 Report Generated: 2024-10-30 14:57:56 Compliance ID: EnergyPro-20080-1024-0079													

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD													NRCC-PRF-E
Nonresidential Performance Compliance Method													(Page 12 of 14)
<b>Building Level Controls</b>													
01						02							
Mandatory Demand Response 110.12(c) Required						Shut-Off Controls 130.1(c) & 160.5(b)4C Required							
Area Level Controls (Includes all lighting controls installed in conditioned space to meet mandatory requirements per 130.1)													
03	04	05	06	07	08	09							
Area Description	Area Category Primary Function Area	Area Controls 130.1(a) & 160.5(b)4A	Multi-Level Controls 130.1(b) & 160.5(b)4B	Shut-Off Controls 130.1(c) & 160.5(b)4C	Primary Daylighting 130.1(d) & 160.5(b)4D	Secondary Daylighting 140.5(d) & 160.5(b)4D							
Whole Building	All Other Space Types	Required	Required	Required	Required	Required							
<b>L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION</b>													
Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online													
Building Component	Form/Title												
Envelope	NRCC-ENV-01-E - Must be submitted for all buildings												
Envelope	NRCC-ENV-E - Envelope (for all buildings)												
Mechanical	NRCC-MCH-01-E - Must be submitted for all buildings												
Mechanical	NRCC-MCH-E - For all buildings with Mechanical Systems												
Plumbing	NRCC-PLB-01-E - Must be submitted for all buildings												
Plumbing	NRCC-PLB-E - For all buildings with Plumbing Systems												
Indoor Lighting	NRCC-LTI-01-E - Must be submitted for all buildings												
Indoor Lighting	NRCC-LTI-E - Indoor Lighting (for all buildings)												
<b>M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE</b>													
Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).													
Building Component	Form/Title & System Name(s)												
Envelope	NRCA-ENV-02-E - NRFC label verification for fenestration												
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls												
Indoor Lighting	NRCA-LTI-03-A - Automatic Daylight Controls												
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601 Report Generated: 2024-10-30 14:57:56 Compliance ID: EnergyPro-20080-1024-0079													

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD													NRCC-PRF-E
Nonresidential Performance Compliance Method													(Page 13 of 14)
<b>M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE</b>													
Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).													
Building Component	Form/Title & System Name(s)												
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap												
Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC												
Mechanical	Space Heater System												
<b>N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION</b>													
Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online													
There are no Certificates of Verification applicable to this project													
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601 Report Generated: 2024-10-30 14:57:56 Compliance ID: EnergyPro-20080-1024-0079													

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD													NRCC-PRF-E
Nonresidential Performance Compliance Method													(Page 14 of 14)
<b>Documentation Author's Declaration Statement</b>													
1. I certify that this Certificate of Compliance documentation is accurate and complete.													
Documentation Author Name: NAI						Documentation Author Signature: <i>M. Samuel</i>							
Company: NAI Consulting Engineers						Signature Date: 09-13-2024							
Address: 28043 Smyth Dr Suite 201						CEA/HERS Certification Identification (if applicable): A324-3767-5318-7EF8-3CAF-F30A-5901-F8D1-81C6-CEE7-F85F-20EC-B8EF-81EB-D588-288D							
City/State/Zip: Valencia, CA 91355						Phone: 6612442772							
<b>Responsible Person's Declaration statement</b>													
I certify the following under penalty of perjury, under the laws of the State of California:													
<ol style="list-style-type: none"> <li>The information provided on this Certificate of Compliance is true and correct.</li> <li>I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).</li> <li>The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.</li> <li>The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.</li> <li>I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.</li> <li>I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.</li> </ol>													
Responsible Designer Name: <i>M. K. ROY</i>						Responsible Designer Signature: <i>M. Samuel</i>							
Company: NAI Consulting Engineers						Date Signed: 09-13-2024							
Address: 28043 Smyth Dr						License #: M-37719							
City/State/Zip: Valencia/CA/91355						Title:							
Phone: 661-244-2772						Scope:							
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601 Report Generated: 2024-10-30 14:57:56 Compliance ID: EnergyPro-20080-1024-0079													

**CITY OF SANTA CLARITA BUILDING & SAFETY**

**APPROVED**  
Under SCMC Titles 18, 19, 20, 21, 24, 25  
Dec 10, 2024  
**M. Samuel**



**BLD24-01810 (MEP PLANS)**

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# LIGHTING FIXTURES SCHEDULE

FIXTURE TYPE (INPUT WATTAGE)	TYPE					LAMPS		WATTAGE	VOLTAGE	DESCRIPTION	MOUNTING	LOCATION	REMARKS
	INC AND	FLU OR	HPS	OT HER	NUM BER	TYPE							
				●	1	LED	28	MVOLT	1X4 LED LIGHT KURTZON LIGHTING: WL-A-1-20-LEDR40	SURFACE	HALL,RESTROOM	FOR EMERGENCY LIGHTS USE: EM10	

## CITY OF SANTA CLARITA BUILDING & SAFETY

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18, 19, 20, 21, 24, 25

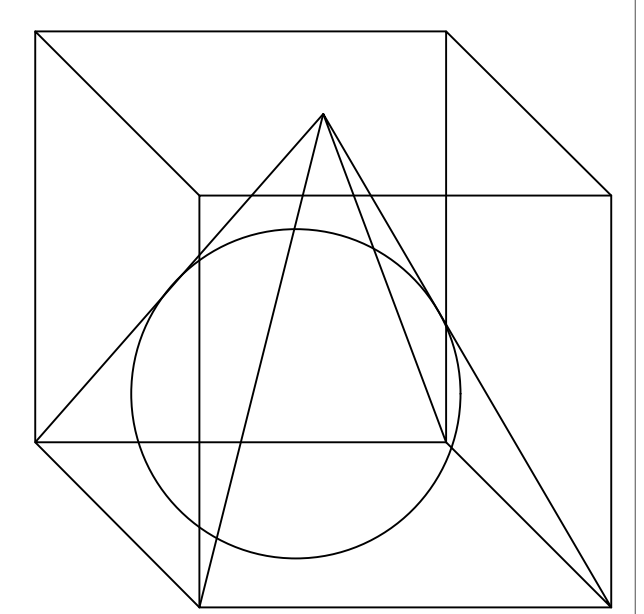
**Dec 10, 2024**

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### SCOPE OF WORK

SCOPE OF WORK INCLUDES, BUT NOT LIMITED TO,

- TENANT IMPROVEMENT OF A COMMERCIAL SPACE WITHIN A BUILDING.
- PROVIDE POWER AND LIGHTING TO THE ABOVE.
- PROVIDE PANEL SCHEDULE & SINGLE LINE DIAGRAM.
- PROVIDE POWER TO SPACE HEATER UNITS.
- PROVIDE INDOOR LIGHTING TITLE 24.
- TO DESIGN THE PROJECT IN ACCORDANCE WITH THE LATEST ELECTRICAL CODE HAVING JURISDICTION 2020 NEC & 2022 CEC.
- TO FOLLOW ALL BUILDING CODES & RULES AS DEFINED BY CALIFORNIA & COMPLY WITH REGULATIONS OF ALL LOCAL, STATE, TRIBAL & FEDERAL ENTITIES.

### BRANCH CIRCUIT WIRING LEGEND

**NOTE:**

PROVIDE ADDITIONAL GROUND CONDUCTOR FOR ALL CIRCUITS. (GROUND CONDUCTOR NOT SHOWN AS PART OF SLASH COUNT) BASED ON TABLE C.1 MAX. NO. OF CONDUCTORS OR FIXTURES IN ELECTRICAL METALLIC TUBING(EMT),ADJUSTMENT FACTORS FOR MORE THAN THREE CURRENT CARRYING CONDUCTORS,REFER TABLE 310.15(B)(3)(a).

1/2" C	3#12	#10	1/2" C	3#10	8	1/2" C	2#8 & 1#10
1/2" C	4#12	#10	1/2" C	4#10	8	3/4" C	3#8 & 1#10
1/2" C	5#12	#10	1/2" C	5#10	8	3/4" C	4#8 & 1#10
1/2" C	6#12	#10	3/4" C	6#10	8	3/4" C	5#8 & 1#10
1/2" C	7#12	#10	3/4" C	7#10	8	1" C	6#8 & 1#10
1/2" C	8#12	#10	3/4" C	8#10	8	1" C	7#8 & 1#10
1/2" C	9#12	#10	3/4" C	9#10	8	1" C	8#8 & 1#10

### SIGNAL FIXTURE SYMBOLS LIST

(NOT ALL SYMBOLS ARE USED ON THIS PROJECT)

	FLOOR OUTLET
	INTERCOM, +42" AFF, U.N.O.
	TELEPHONE OUTLET, +18" AFF, U.N.O.
	COMBINATION FLOOR TELEPHONE/DATA OUTLET
	COMBINATION CEILING TELEPHONE/DATA OUTLET
	DATA OUTLET, +18" AFF, U.N.O.
	COMBINATION TELEPHONE/DATA OUTLETS, +18" AFF, U.N.O.
	CABLE TELEVISION OUTLET, +18" AFF, U.N.O. (SEE PLAN FOR MOUNTING HEIGHT)
	CEILING MOUNTED CABLE TELEVISION OUTLET
	CEILING MOUNTED CAMERA
	OUTDOOR CAMERA
	WALL MOUNTED SPEAKER (SEE PLAN FOR MOUNTING HEIGHT)

### ABBREVIATIONS

A, AMP	AMPERES	KW	KILOWATT
A/C	AIR CONDITIONER	LCL	LONG CONTINUOUS LOAD
AF	AMPERE FRAME RATING	MAX	MAXIMUM
AFF	ABOVE FINISHED FLOOR	MIN	MINIMUM
AFG	ABOVE FINISHED GROUND	N	NEW
AIC	AMPERE INTERRUPTING CAPACITY	N.I.C.	NOT IN CONTRACT
AT	AMPERE TRIP RATING	Ø	PHASE
ATS	AUTOMATIC TIME SWITCH	P	POLE
BKR	BREAKER	PS	PHOTO SENSOR
CB	CIRCUIT BREAKER	PVC	POLYVINYLCHLORIDE
CKT	CIRCUIT	(R/R)	RELOCATED
C	CONDUIT	TC	TIME CLOCK
C.O.	CONDUIT-ONLY	TYP	TYPICAL
CU	COPPER	U.G.	UNDERGROUND
DISC SW	DISCONNECT SWITCH	U.N.O.	UNLESS NOTED OTHERWISE
DWG.	DRAWING	V	VOLT
(E)	EXISTING	V.D.	VOLTAGE DROP
E.C.	ELECTRICAL CONTRACTOR	W	WATTS
ELECT.	ELECTRICAL	WIUC	WHILE IN USE COVER
EM	EMERGENCY	WP	WEATHERPROOF
GFI, GFCI	GROUND FAULT INTERRUPTING	WR	WATER RESISTANT
HP	HORSEPOWER		

### POWER FIXTURE SYMBOLS LIST

(NOT ALL SYMBOLS ARE USED ON THIS PROJECT)

	CONDUIT HOMERUN TO PANEL. NUMERALS DENOTE CIRCUITS. HASH MARKS DENOTE QUANTITY OF #12 AWG. (OR #10 AWG. AS NOTED ON PLANS). NO HASHES DENOTE 2#12 AWG.												
	CONDUIT CONCEALED IN WALLS OR CEILING												
	PVC CONDUIT RUN IN CONCRETE SLAB, BELOW GRADE												
	CONDUIT AND WIRES WITH ADDITIONAL GROUND WIRE												
<table border="1"> <thead> <tr> <th colspan="3">MAXIMUM CONDUIT WIRE FILL CHART THHN-THWN</th> </tr> <tr> <th>WIRE SIZE</th> <th>1/2" C.</th> <th>3/4" C.</th> </tr> </thead> <tbody> <tr> <td>#12</td> <td>9</td> <td>16</td> </tr> <tr> <td>#10</td> <td>5</td> <td>10</td> </tr> </tbody> </table>		MAXIMUM CONDUIT WIRE FILL CHART THHN-THWN			WIRE SIZE	1/2" C.	3/4" C.	#12	9	16	#10	5	10
MAXIMUM CONDUIT WIRE FILL CHART THHN-THWN													
WIRE SIZE	1/2" C.	3/4" C.											
#12	9	16											
#10	5	10											
	CLASS T FUSIBLE DISCONNECT SWITCH												
	HEAVY DUTY DISCONNECT SWITCH. SIZE, NUMBER OF POLES AND FUSED OF NON-FUSED AS NOTED ON PLANS. RAIN TIGHT WHEN MOUNTED OUTDOORS												
	TRANSFORMER (SIZE AS SHOWN ON THE PLAN/SINGLE LINE DIAGRAM)												
	PANELBOARD. FLUSH OR SURFACE MOUNTED AS SHOWN ON PLANS AND PANEL SCHEDULES. ADJACENT BALLOON INDICATES PANEL DESIGNATION												
	CIRCUIT BREAKER. SIZE AND NUMBER OF POLES AS SHOWN ON PLANS												
	20A, SINGLE POLE MOTOR RATED TOGGLE SWITCH. (125V)												
	JUNCTION BOX IN ACCESSIBLE CEILING SPACE. SIZE AS REQUIRED. WEATHERPROOF WHEN LOCATED OUTDOORS. (4S BOX MIN.)												
	WALL JUNCTION BOX +15", U.O.N. PROVIDE EXTENSION WHEN USED FOR FLEX CONNECTION. WEATHERPROOF WHEN OUTDOORS. (4S BOX MIN.)												
	WALL MOUNTED JUNCTION BOX, E.C. TO CONNECT & WIRE TO EQUIPMENT												
	MOTOR												
	DUPLEX CONVENIENCE RECEPTACLE, 125V., 2P., 3W., 15AMP., NEMA 5-15R. FLUSH @+18" AFF, U.N.O EXCEPT TV & COUNTER TOP REC @45".												
	FLOOR MOUNTED DUPLEX RECEPTACLE OUTLET (125V, 2P, 3W, 15A). VERIFY EXACT LOCATION WITH OWNER PRIOR TO ANY WORK												
	DOUBLE DUPLEX IN COMMON BOX @+18" AFF, U.N.O.												
	DUPLEX RECEPTACLE, 125V, 2P, 3W, 20AMP NEMA 5-20R FLUSH @+18AFF", U.N.O.												
	GFCI DUPLEX RECEPTACLE, 125V, 2P, 3W, 20AMP NEMA 5-20R FLUSH @+18AFF", U.N.O.												
	FLUSH CEILING MOUNTED BOX WITH NEMA 5-20R DUPLEX RECEPTACLE. 125V, 2P, 3W, 20A												
	GFCI RECEPTACLE, 125V, 2P, 3W, 20AMP NEMA 5-20R FLUSH @+48", U.N.O.												
	DUPLEX CONVENIENCE RECEPTACLE, 125V., 2P., 3W., 20AMP., NEMA 5-20R. FLUSH @+42" AFF, U.N.O.												
	240V RECEPTACLE OUTLET												
	CONTROLLED RECEPTACLE VIA OS												
	SMOKE DETECTOR												
	CARBON MONOXIDE DETECTOR												
	CARBON DETECTOR												

### LIGHTING FIXTURE SYMBOLS LIST

	COMPACT LED WALL PACK WITH BATTERY BACK UP AND MOTION SENSOR.
	2'X4' PRISMATIC LED WITH DIMMING
	RECESSED DOWN LIGHT
	STRIP LED LIGHT
	WALL MOUNTED LIGHT FIXTURE (SCONCE)
	1' X 4' FLUORESCENT LIGHT FIXTURE
	DARK SHADES DENOTES FIXTURES ON EMERGENCY
	TRACK MOUNTED FLOOD LIGHT FIXTURE
	SINGLE POLE SWITCH, @42" AFF, U.N.O.
	FLUSH WALL TOGGLE SWITCH. 20A, 120V - SUBLETTERS DENOTE ITEMS CONTROLLED. @+42", U.N.O.
	THREE WAY SWITCH, @42" AFF, U.N.O.
	DIMMER SWITCH, @42" AFF, U.N.O.
	EXIT SIGN LIGHT FIXTURE (90 MIN)
	MULTI-LEVEL OCCUPANCY SENSOR
	PHOTO SENSOR
	CARBON MONOXIDE SENSOR
	EMERGENCY LIGHT BUG EYES (90 MIN)
	AUTOMATIC TIME SWITCH FOR LIGHT CONTROL
	SWITCH TYPE ROOM OCCUPANCY SENSOR @42" WITH "ob" SWITCH.

### SHEET INDEX

SHEET #	SHEET NAME
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E-101	GENERAL NOTES
E-200	ELECTRICAL FLOOR PLAN(WHOLE BUILDING)
E-201	ELECTRICAL FLOOR PLAN
E-300	ELECTRICAL LIGHTING PLAN
E-500	SINGLE LINE DIAGRAM AND PANEL SCHEDULES
E-501	ELECTRICAL DETAILS
E-600	INDOOR LIGHTING TITLE 24

PLAN CHECK RESUBMITTAL	11-22-24
PLAN CHECK RESUBMITTAL	11-01-24
PLAN CHECK SUBMITTAL	09-16-24

## FIRST PRESBYTERIAN CHURCH OF NEWHALL

24317 NEWHALL AVE  
NEWHALL, CA 91321

PLAN CHECK NO:

**BLD24-01810**

## SYMBOLS AND LIGHTING FIXTURES SCHEDULES

PROJECT NO. **24-072**

**E-100**

## GENERAL NOTES

- ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST ELECTRICAL CODE HAVING JURISDICTION, 2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA ELECTRICAL CODE. AND 2022 ENERGY EFFICIENCY STANDARDS AND 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, TITLE 24.
- OBTAIN AND PAY FOR ALL PERMITS, FEE, AND LICENSES REQUIRED FOR INSTALLATION OF THE ELECTRICAL WORK.
- BEFORE STARTING ANY WORK, EXAMINE THE COMPLETE SET OF DRAWINGS FOR ALL TRADES, INCLUDING ARCHITECTURAL, MECHANICAL, AND PLUMBING. VERIFY ALL DIMENSIONS, SPACE REQUIREMENTS, AND POINTS OF CONNECTION TO ALL EQUIPMENT. MAKE ANY MINOR ADJUSTMENTS NECESSARY TO AVOID CONFLICTS WITH OTHER TRADES. MAJOR (REQUIRING COST ADJUSTMENTS) DISCREPANCIES SHALL BE RESOLVED IN WRITING PRIOR TO PERFORMING ANY WORK.
- THE DRAWINGS INDICATE IN A DIAGRAMMATIC MANNER, THE DESIRED LOCATIONS AND ARRANGEMENT OF THE COMPONENTS OF THE ELECTRICAL WORK. DETERMINE EXACT CONDUIT ROUTING, CONDUIT BENDS, AUXILIARY JUNCTION BOXES, SUPPORTS, AND UNDEFINED CONSTRUCTION DETAILS AS A JOB CONDITION TO BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS.
- ALL CONDUCTOR SIZES SHOWN ARE FOR COPPER WITH 600V. TYPE THHN-THWN INSULATION RATED 75 C. UNLESS OTHERWISE NOTED. MINIMUM CONDUCTOR SIZE: #12 A.W.G.
- PROVIDE AND MAINTAIN RECORD DRAWINGS ON THE JOB THAT ACCURATELY REFLECT CURRENT AS-BUILT STATUS OF THE PROJECT.
- USE FIRE CAULK, 3M COMPANY CP 25WB+CAULK OR FB-3000 WT SEALANT FOR ALL 1HR RATED WALLS PENETRATIONS.
- SEE ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATIONS FOR EXACT LOCATION OF ALL LIGHT FIXTURES.
- WHERE NEW PANELBOARDS ARE SHOWN ON THE DRAWINGS, THEY SHALL BE FLUSH OR, SURFACE MOUNTED GALVANIZED STEEL CABINETS WITH BAKED ENAMEL FINISH AND WITH HINGED LOCKABLE DOORS. CIRCUIT BREAKERS SHALL BE BOLT-ON MOLDED CASE QUICK-LET TYPE WITH "LOCK-OFF" PROVISIONS. MINIMUM I.C. RATING SHALL BE 10,000 AMPERES (120/208,3 PHASE, 3 OR 4 WIRE). 14,000 AMPERES (277/480V, 3 PHASE 4-WIRE). PROVIDE BARRIERED SPACE AND SEPARATE HINGED LOCKABLE DOOR FOR CONTACTORS AND CONTROL DEVICES REQUIRED.
- MATERIALS AND EQUIPMENT SHALL BE NEW AND LISTED BY AND BEAR THE LABEL OF THE UNDERWRITER'S LABORATORIES, INC. OR OTHER APPROVED INDEPENDENT TESTING LABORATORY, WHERE SUBJECT TO SUCH APPROVAL AND SHALL BE APPROVED BY ALL LOCAL AUTHORITIES HAVING JURISDICTION.
- ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION OR RECOMMENDATIONS.
- ITEMS OF A SIMILAR NATURE SHALL BE OF THE SAME TYPE AND MANUFACTURER.
- SHOP DRAWING SUBMITTALS ARE REQUIRED FOR THE FOLLOWING MATERIALS/EQUIPMENT:
  - LIGHTING FIXTURES.
  - SPECIAL OR BUILT-TO-ORDER EQUIPMENT.
  - NEW SWITCHBOARD, PANELBOARDS AND CIRCUIT BREAKERS.
- ALL EXPOSED CONDUIT SHALL BE INSTALLED PARALLEL WITH OR AT RIGHT ANGLES TO ARCHITECTURAL FEATURES SUCH AS THE BUILDING LINE, BEAMS OR CEILINGS.
- WHEREVER CONDUCTORS ARE SPLICED OR TERMINATED IN A JUNCTION OR PULLBOX, THEY SHALL BE MARKED WITH THEIR CIRCUIT NUMBER USING "BRADY" ADHESIVE MARKERS.
- ALL EMPTY CONDUITS SHALL HAVE A 1/8" DIAMETER NYLON PULL CORD UNLESS OTHERWISE SPECIFIED.
- EXACT ROUTING OF ALL CONDUIT WITHIN THE BUILDING SHALL BE DETERMINED BY THE CONTRACTOR. ANY COST REQUIRED TO ROUTE CONDUIT DIFFERENTLY THAN IS SHOWN ON THESE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR.
- ALL DEVICE LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATION PRIOR TO INSTALLATION.
- ALL FINAL CONNECTIONS TO OWNER-FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR, UNLESS OTHERWISE DIRECTED.
- ALL EQUIPMENTS SHALL BE LISTED BY A RECOGNIZED ELECTRICAL TESTING AGENCY. ELECTRICAL EQUIPMENT SHALL BE LISTED BY A CITY OF SANTA CLARITA RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE DEPARTMENT.
- WHERE A GROUND WIRE IS NOT SPECIFIED, CONDUIT AND IT'S CONNECTIONS SHALL BE U.L. APPROVED FOR USE AS GROUNDING CONDUCTORS.
- FEEDER RUNS IN NON-METALLIC CONDUIT SHALL CARRY A GREEN INSULATED CODE SIZED GROUNDING CONDUCTOR PROPERLY CONNECTED FOR ELECTRICAL GROUND CONTINUITY.
- NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE DEDICATED SPACE ABOVE THE ELECTRICAL EQUIPMENT.
- INDOOR DRY TYPE TRANSFORMERS OVER 112.5kVA SHALL BE INSTALLED IN MINIMUM 1-HR FIRE RATED ROOM.
- ALL ELECTRICAL EQUIPMENT SHALL BE U.L. LISTED AND BEAR THE LABEL INDICATING SUCH.
- CONTRACTOR TO USE MC CABLE AS ALTERNATIVE, EXCEPT WHERE SUBJECT TO PHYSICAL DAMAGE AS PER CEC 330.12.

- USE OF ROMEX (NM) MUST BE IN CONSIDERATION WITH CEC, ARTICLE 334 SECTION 334-10 & 334-12 AND INSTALLATION SHALL COMPLY WITH CBC, SECTION 714. ROMEX SHALL NOT BE USED FOR HOIST-WAYS OR ELEVATORS, DUCTS, PLENUMS AND OTHER AIR-HANDLING SPACES THAT MAY CONTRIBUTE SMOKE AND PRODUCTS OF COMBUSTION DURING A FIRE. ELECTRICAL CONTRACTOR ALSO NOT TO USE ROMEX IN SPACES WITH HIGH CHANCES OF DAMAGE BY FOR EXAMPLE, BUT NOT LIMITED TO WET, PUNCTURED BY NAIL, GNAWED BY RODENTS, ETC. FOLLOW UP WITH DEPARTMENT OF BUILDING AND SAFETY, FOR MORE DETAILS ON THE SAME.
- ELECTRICAL CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO ORDERING NEW EQUIPMENT/DEVICES.
- ELECTRICAL CONTRACTOR / OWNER TO REQUEST A NEW SERVICE FROM THE LOCAL ELECTRICAL SERVICE PROVIDER IF NEEDED.
- ELECTRICAL CONTRACTOR / OWNER TO REQUEST A NEW AIC (AMPERE INTERRUPTING CAPACITY) PROTECTION FROM THE LOCAL ELECTRIC UTILITY COMPANY.
- ALL CONDUCTOR SIZES FOR THIS PROJECT SHALL BE THHN/THWN COPPER AWG OR KCMIL PER NEC/CEC TABLE 310.15 (B)(16).
- PROVIDE AN UP TO DATE TYPEWRITTEN PANEL DIRECTORY TO TRACE AND LABEL BOTH NEW AND EXISTING BRANCH CIRCUIT.
- REMOVE EXISTING UNUSED CONDUIT AND CABLES IF ANY.
- REMOVE ALL UNUSED SURFACE WALL MOUNTED RECEPTACLES, SWITCHES, J-BOX(ES), CONDUITS AND ALL POWER OUTLETS MOUNTED CLOSE TO THE FLOOR IF ANY.
- CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS FOR ALL MECHANICAL EQUIPMENT AND CONTROLS (QUANTITIES AND LOCATIONS), AND REQUIRED CONTROL WIRING.
- E.C. TO USE 90°C TYPE CABLE PER CEC TABLE 310.16.
- ALL CONNECTIONS TO FANS, AC UNITS, MOTORS, ETC. SHOULD BE MADE WITH LIQUID TIGHT FLEXIBLE CONDUIT.
- VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES ON ARCHITECTURAL AND CIVIL PLANS.
- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID. ROUGH-IN & INSTALLATION.
- FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
- ALL CONDUIT 90° CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
- CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
- ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL UTILITY COMPANY FOR APPROVAL, WITH WRITTEN APPROVAL RECEIVED PRIOR TO SUBMISSION TO ELECTRICAL ENGINEER FOR APPROVAL.
- CONTRACTOR TO PROVIDE GROUND CONDUCTORS IN ALL CONDUITS. 1" CONDUIT MINIMUM UNDERGROUND.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- ALL PANEL BOARDS SHALL BE SERVICE ENTRANCE RATED.
- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
- PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
- VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
- ALL COSTS RELATED TO SEPARATING ELECTRICAL (I.E.; POWER, CIRCUITS, SUB PANELS, ABANDONED CONDUIT, J-BOXES, ETC.) BETWEEN FLOORS (IF NECESSARY) SHALL BE INCLUDED IN THE TENANT IMPROVEMENTS."
- EC TO MAKE SURE THAT ALL ELECTRICAL EQUIPMENTS ARE CONNECTED TO NECESSARY HARDWARE. CONSULT SPECIFICATION SHEET FOR DETAILS.

- EC TO MAKE SURE THAT ALL ELECTRICAL EQUIPMENTS ARE CONNECTED TO NECESSARY HARDWARE. CONSULT SPECIFICATION SHEET FOR DETAILS.
- ALL OUTDOOR RECEPTACLES SHALL BE W.P./GFCI. ALL RECEPTACLE OUTLETS IN GARAGE AND BATHROOMS SHALL BE EQUIPPED WITH GFCI PROTECTION.
- ALL RECEPTACLE OUTLETS LOCATED ON TOP OF TABLE OR COUNTER SHALL BE 6" ABOVE FINISHED COUNTER.
- COORDINATE LOCATIONS OF FAN COILS, THERMOSTAT & EXHAUST FAN WITH MECHANICAL DRAWINGS.
- SWITCHBOARD AND PLANELOADS THAT ARE LIKELY TO BE ENERGIZED WHILE BEING MAINTAINED OR SERVICED BY QUALIFIED PERSONNEL SHALL BE LABELED WARNING OF POSSIBLE ARC FLASH HAZARDS. (110.16).
- KEEP 3 FEET CLEARANCE IN FRONT OF ELECTRICAL PANEL PER NEC CODE.
- ALL PANEL-BOARDS NOT TO BE LOCATED IN CLOTHES CLOSET OR BATHROOMS AS PER [CEC 240.24 (D & E)].
- ALL CONDUCTORS ABOVE GRADE SHALL HAVE 'THHN' INSULATION. U.N.O.
- CONDUITS UNDER PAVED AREAS SHALL HAVE MINIMUM OF 12" OF COVER WITH A TWO INCH THICK CONCRETE PAD.
- ALL ELECTRICAL EQUIPMENT, WIRING, AND CONNECTIONS BELOW GRADE OR EXPOSED TO THE ELEMENTS SHALL BE WEATHERPROOF (TYPICAL).
- GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL SHALL BE PROVIDED AS REQUIRED IN 210.8(A) THROUGH (F). THE GROUND-FAULT CIRCUIT INTERRUPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION.
- TAMPER RESISTANT RECEPTACLES SHALL BE PROVIDED AS PER 406.12
- OVER-CURRENT PROTECTIONS SHALL BE PROVIDED AS NEED NEC 450.3(A)(B)(C) & OVER-CURRENT PROTECTION FOR BRANCH-CIRCUIT CONDUCTORS AND EQUIPMENT SHALL BE PROTECTED BY OVER-CURRENT PROTECTIVE DEVICES THAT HAVE A RATING OR SETTING THAT COMPLIES WITH 210.20(A) THROUGH (D).
- PROVIDE GFCI RECEPTACLES/JUNCTION BOX WITHIN 6 FEET FROM ANY WATER SOURCE. GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL SHALL BE PROVIDED AS REQUIRED IN 210.8(A) THROUGH (F). THE GROUND-FAULT CIRCUIT INTERRUPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION.
- CONTRACTOR TO VERIFY STEEL STRUCTURE IS PART OF THE GROUNDING ELECTRODE SYSTEM OF THE BUILDING.
- ANY CONDUITS PENETRATING THE FIRE RATED WALL SHOULD BE SEALED WITH FIRE PROTECTION SEALANTS.

## CITY OF SANTA CLARITA BUILDING & SAFETY

**APPROVED**

Under SMC Titles  
18, 19, 20, 21, 24, 25

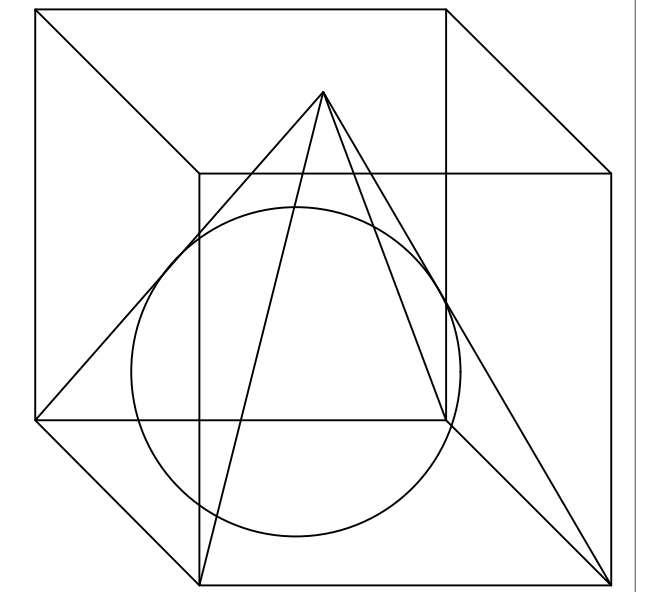
**Dec 10, 2024**

*M. Samuel*



**BLD24-01810 (MEP PLANS)**

The approved plans must be available at the construction site at all times. Changes or alterations to approved plans shall not be made without written permission from the City of Santa Clarita Building & Safety Division. The approval of these plans shall not be construed to permit or approve any violation of the applicable codes, ordinances, or other laws.



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PLAN CHECK RESUBMITTAL	11-01-24
PLAN CHECK SUBMITTAL	09-16-24

ADACOMPLIANT RESTROOM, 2ND FLOOR OF FELLOWSHIP HALL

## FIRST PRESBYTERIAN CHURCH OF NEWHALL

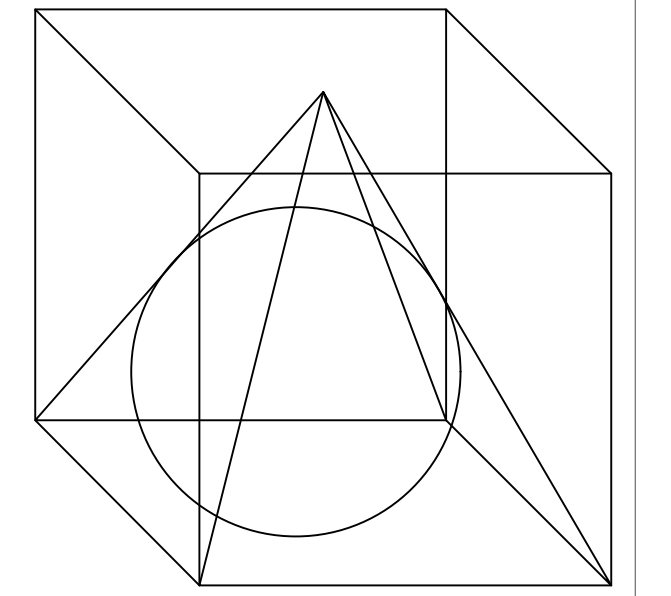
24317 NEWHALL AVE  
NEWHALL, CA 91321

PLAN CHECK NO:  
**BLD24-01810**

## GENERAL NOTES

PROJECT NO. **24-072**

**E-101**



MEMBERS OF THE  
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(661) 244-2772 (661) 244-2773 (626) 449-1313 (626) 440-1779  
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**GENERAL NOTES:**

1. ALL ELECTRICAL FIXTURES SHALL MEET THE REQUIREMENTS SPECIFIED IN THE LATEST ELECTRICAL CODE.
2. ELECTRICAL CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO ORDERING NEW EQUIPMENT/DEVICES.
3. ELECTRICAL CONTRACTOR / OWNER TO REQUEST A NEW SERVICE FROM THE LOCAL ELECTRICAL SERVICE PROVIDER IF NEEDED.
4. ELECTRICAL CONTRACTOR / OWNER TO REQUEST A NEW AIC (AMPERE INTERRUPTING CAPACITY) PROTECTION FROM THE LOCAL ELECTRIC UTILITY COMPANY.
5. ALL CONDUCTOR SIZES FOR THIS PROJECT SHALL BE THHN/THWN COPPER AWG OR KCMIL PER NEC/CEC TABLE 310.15 (B)(16).
6. ELECTRICAL CONTRACTOR TO PROVIDE AN UP TO DATE TYPEWRITTEN PANEL DIRECTORY.
7. REMOVE EXISTING UNUSED CONDUIT AND CABLES.

**CITY OF SANTA CLARITA BUILDING & SAFETY**

**APPROVED**

Under SCMC Titles  
18, 19, 20, 21, 24, 25

**Dec 10, 2024**

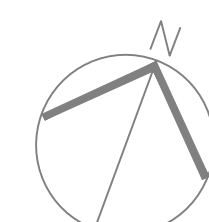
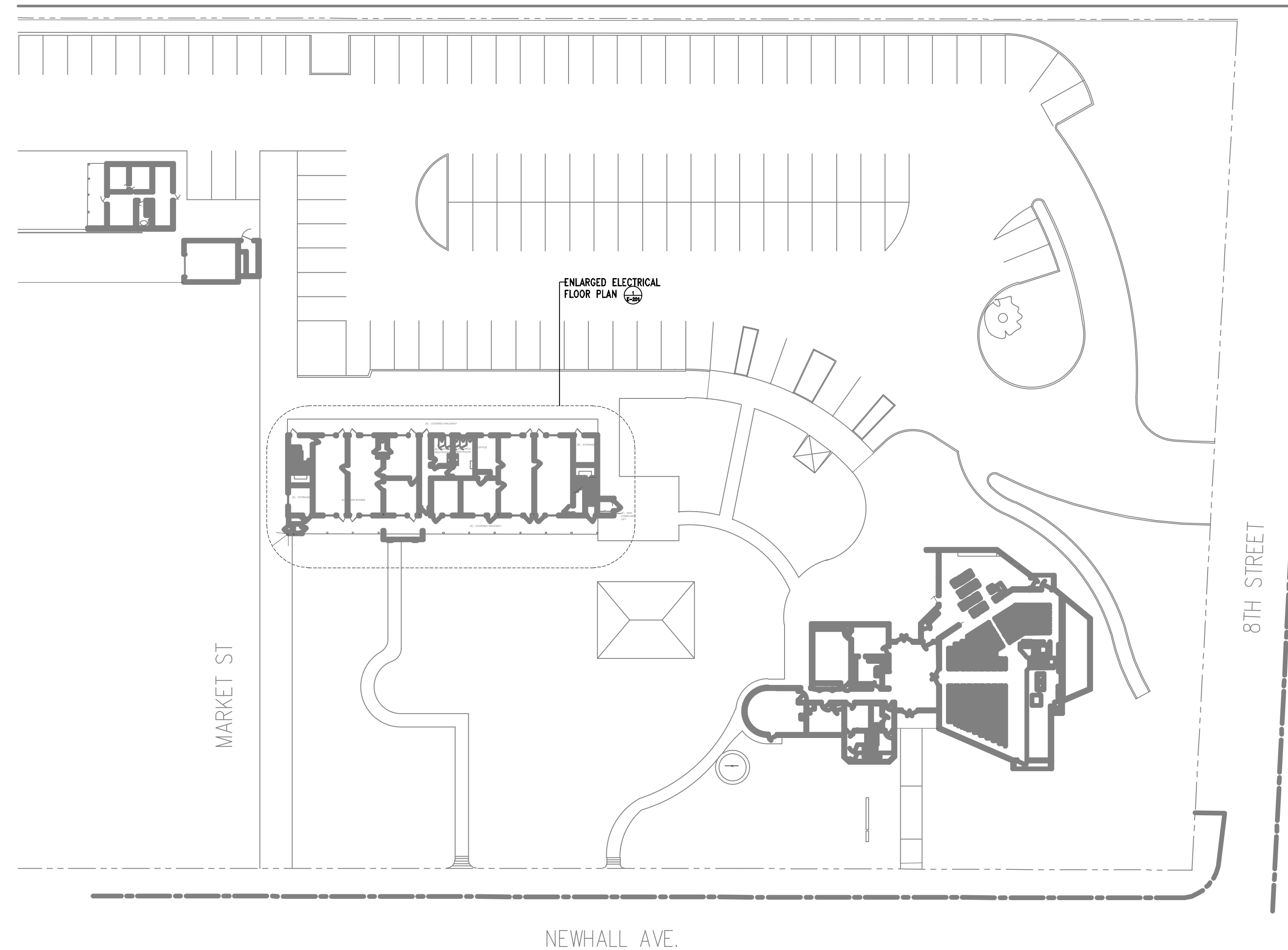
*M. Samuel*



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**PLOT PLAN**



SCALE 1/32"=1'-0"

**ELECTRICAL SITE PLAN**

SCALE  
1/32"=1'-0"

1

PLAN CHECK RESUBMITTAL	11-22-24
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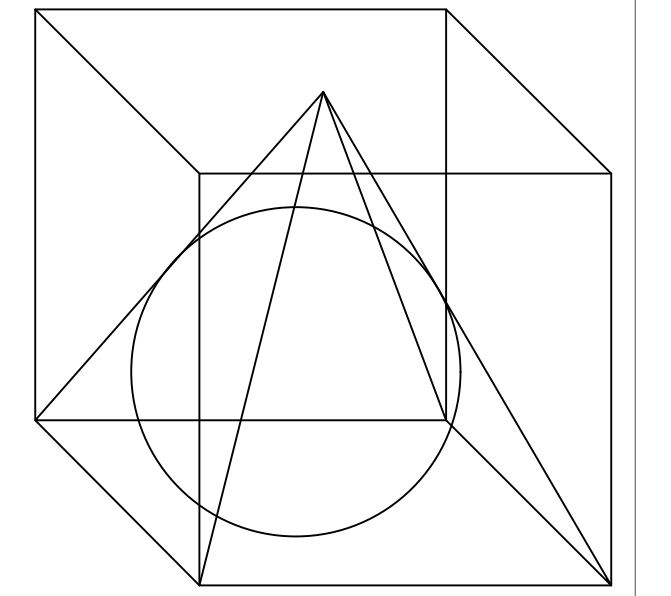
ADACOMPLIANT RESTROOM, 2ND FLOOR OF FELLOWSHIP HALL  
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PLAN CHECK NO:  
**BLD24-01810**

**ELECTRICAL SITE PLAN**

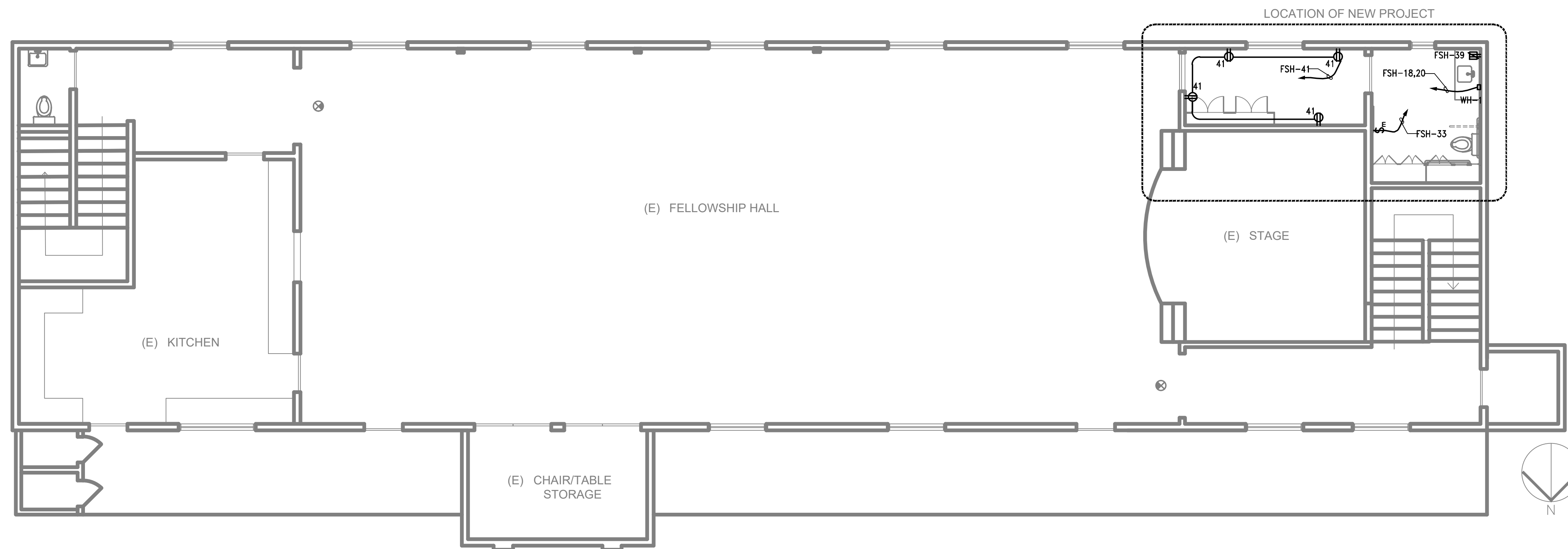
PROJECT NO. **24-072**

**E-200**



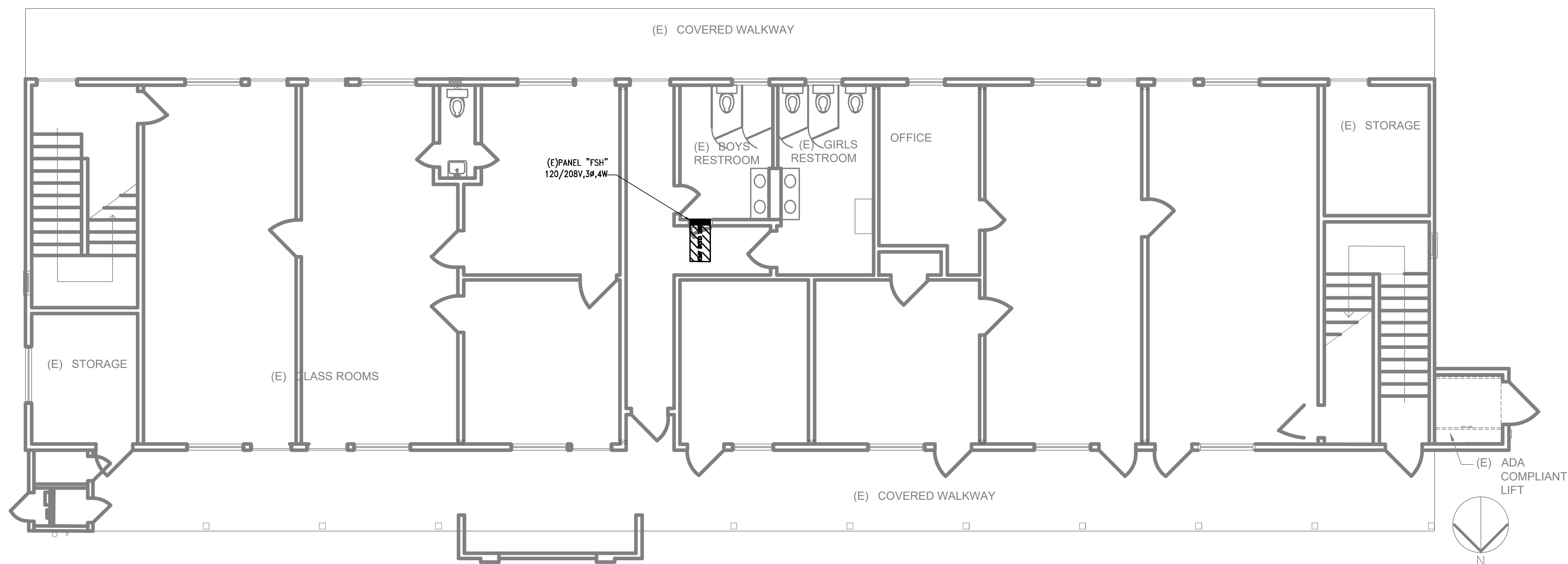
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ELECTRICAL SECOND FLOOR PLAN

SCALE 3/16"=1'-0" 1



ELECTRICAL FIRST FLOOR PLAN

SCALE 3/16"=1'-0" 1

CITY OF SANTA CLARITA  
BUILDING & SAFETY

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Dec 10, 2024

M. Samuel



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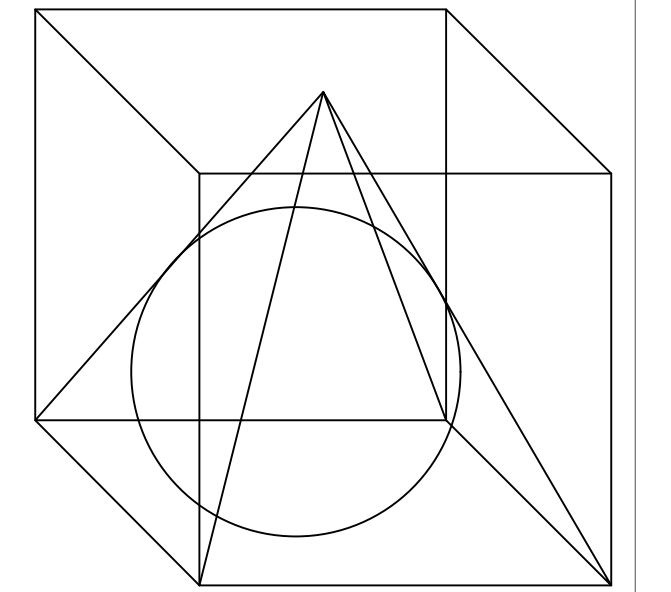
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24317 NEWHALL AVE  
NEWHALL, CA 91321

PLAN CHECK NO:  
BLD24-01810

**ELECTRICAL FLOOR PLAN**

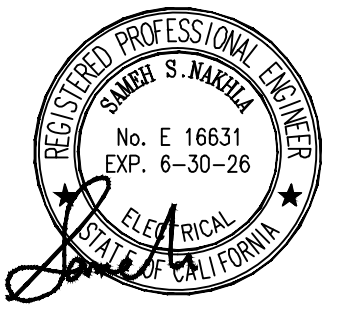
PROJECT NO. 24-072

**E-201**



MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS  
31294 THE OLD ROAD SUITE 220  
CASTAIC, CALIFORNIA 91384  
(661) 259-7600

**NAI Consulting Engineers**  
Mechanical - Electrical - Plumbing  
28043 Smyth Drive, Suite # 201, Valencia, CA 91355  
31 E Walnut Street, Suite # 201, Pasadena, CA 91106  
(661) 244-2772 (661) 244-2773 (626) 449-1313 (626) 440-1779  
www.nai-engineers.com



**GENERAL NOTES**

1. REFER THE LIGHTING SUPPLIERS SET FOR THE EMERGENCY LIGHTS AND THE PATH OF EGRESS.
2. EC TO REFER THE MECHANICAL DRAWINGS FOR THE LOCATION AND SPECIFICATION OF MECHANICAL EQUIPMENTS.



**CITY OF SANTA CLARITA  
BUILDING & SAFETY**

**APPROVED**

Under SCMC Titles  
18, 19, 20, 21, 24, 25

Dec 10, 2024

M. Samuel



**BLD24-01810 (MEP PLANS)**

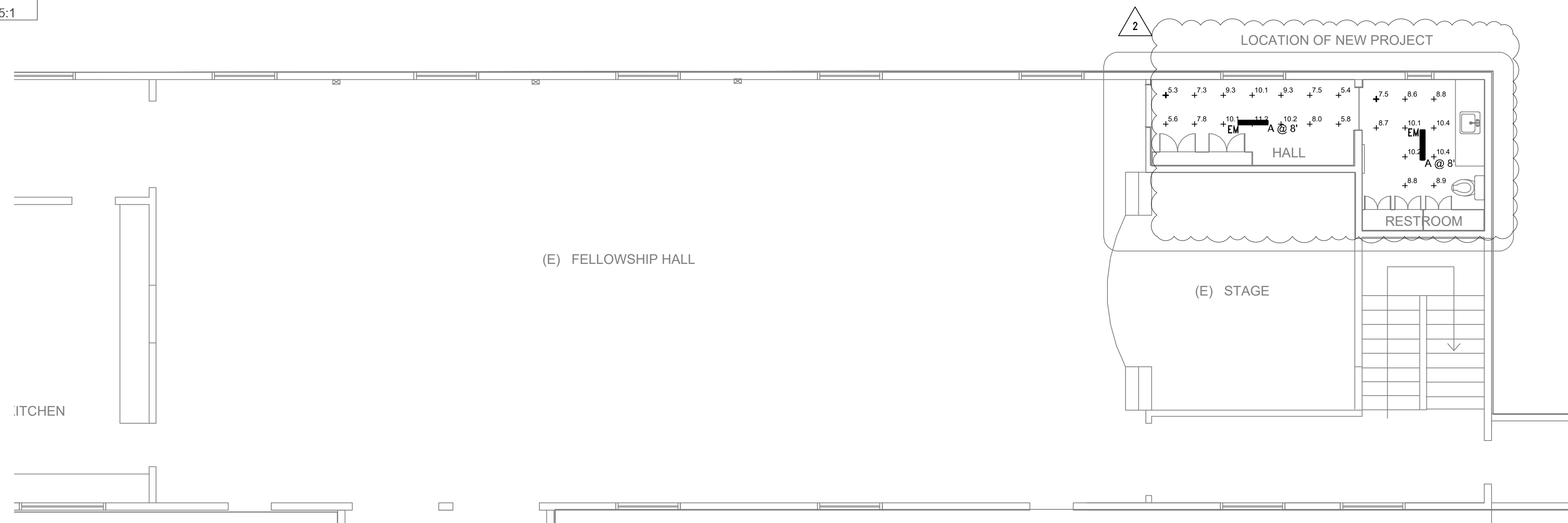
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ELECTRICAL SECOND FLOOR LIGHTING PLAN

SCALE 3/16"=1'-0" 2

Schedule								
Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
A	2	KURTZON LIGHTING, INC - CHICAGO, IL	WL-A-1-20-1/LEDR40-UNV	2-48 LED 22"ARRAYS 4"SURFACE MOUNT LUMINAIRE WHITE FLAT REFLECTOR w/FROSTED ACRYLIC DROP DIFFUSER ADVANCE #X1054C150V054BST1 @ 720mA	1	3883	0.8	28

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Restroom	+	9.2 fc	10.4 fc	7.5 fc	1.4:1	1.2:1
Hall	+	8.1 fc	11.2 fc	5.3 fc	2.1:1	1.5:1



ELECTRICAL SECOND FLOOR EGRESS PHOTOMETRY PLAN

SCALE 3/16"=1'-0" 1

PLAN CHECK RESUBMITTAL 11-22-24  
PLAN CHECK RESUBMITTAL 11-01-24  
PLAN CHECK SUBMITTAL 09-16-24

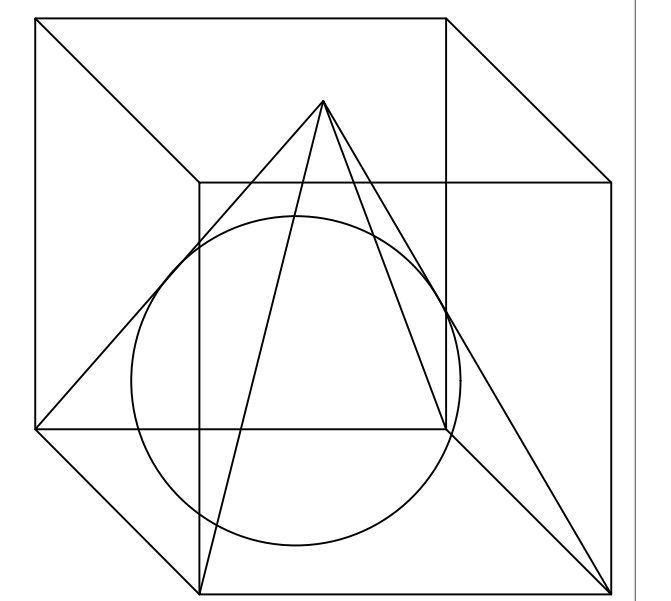
ADACOMPLIANT RESTROOM, 2ND FLOOR OF FELLOWSHIP HALL  
**FIRST PRESBYTERIAN CHURCH OF NEWHALL**  
24317 NEWHALL AVE  
NEWHALL, CA 91321

PLAN CHECK NO:  
**BLD24-01810**

**ELECTRICAL SECOND FLOOR LIGHTING AND PHOTOMETRY PLAN**

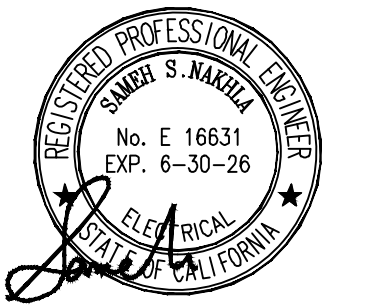
PROJECT NO. 24-072

**E-300**



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**CITY OF SANTA CLARITA  
BUILDING & SAFETY**

**APPROVED**

Under SCMC Titles  
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**Dec 10, 2024**  
**M. Samuel**

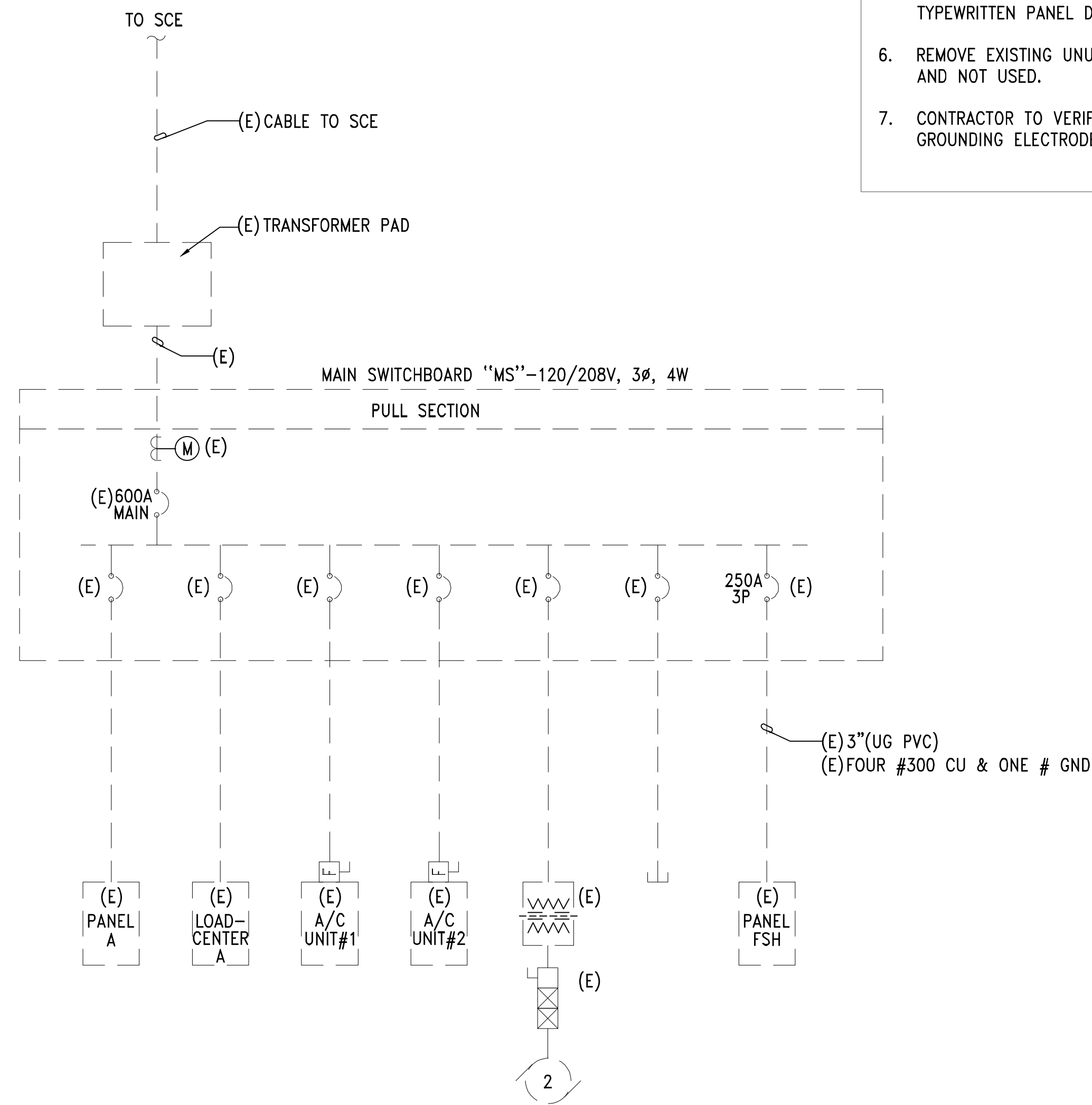


**BLD24-01810 (MEP PLANS)**

The approved plans must be available at the construction site at all times. Changes or alterations to approved plans shall not be made without written permission from the City of Santa Clarita Building & Safety Division. The approval of these plans shall not be construed to permit or approve any violation of the applicable codes, ordinances, or other laws.

**GENERAL NOTES**

- ELECTRICAL CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO ORDERING NEW EQUIPMENT/DEVICES.
- ELECTRICAL CONTRACTOR / OWNER TO REQUEST A NEW SERVICE FROM THE LOCAL ELECTRICAL SERVICE PROVIDER IF NEEDED.
- ELECTRICAL CONTRACTOR / OWNER TO REQUEST A NEW AIC (AMPERE INTERRUPTING CAPACITY) PROTECTION FROM THE LOCAL ELECTRIC UTILITY COMPANY.
- ALL CONDUCTOR SIZES FOR THIS PROJECT SHALL BE THHN/THWN COPPER AWG OR KCMIL PER NEC/CEC TABLE 310.15 (B)(16).
- ELECTRICAL CONTRACTOR TO PROVIDE AN UP TO DATE TYPEWRITTEN PANEL DIRECTORY.
- REMOVE EXISTING UNUSED CONDUIT AND CABLES IF PRESENT AND NOT USED.
- CONTRACTOR TO VERIFY STEEL STRUCTURE IS PART OF THE GROUNDING ELECTRODE SYSTEM OF THE BUILDING.



**LINETYPE LEGEND:**

---	EXISTING ELECTRICAL
—	NEW ELECTRICAL

SINGLE LINE DIAGRAM

**(E) PANEL "FSH" 120/208, 3 - PHASE, 4WIRE**

MAIN: 250 AMP  
BUS AMPERE: 250 AMP  
DEMAND LOAD: 201 AMP  
DEMAND LOAD: 73 KVA  
CONN LOAD: 218 AMP

CKT NO.	VA LOAD			LOAD DESCRIPTION	OUTLETS (oth/rec)	CKT BKR TRP	BUS A B C	CKT BKR TRP	OUTLETS (oth/rec)	LOAD DESCRIPTION	VA LOAD			CKT NO.
	LINE A	LINE B	LINE C								LINE A	LINE B	LINE C	
1	0			SPARE						(E) KITCHEN GARBAGE DISPOSAL	1200			2
3		180		SERVICE REC.	1	1	20			(E) KITCHEN REC		1500		4
5			3900	(E) HP-1	1		40			(E) KITCHEN REC			1500	6
7	3900			-			2			(E) KITCHEN REC	1500			8
9		3900		(E) HP-2	1		40			(E) MAIN ROOM REC		1800		10
11			3900	-			2			(E) MAIN ROOM REC			1800	12
13	8000			(E) A/C SUB PANEL	1		100			SPARE	0			14
15		8000		-			2			LIGHT + EF		220		16
17			4000	(E) CHAIR LFT SUB-PANEL	1		60			WH-1			2080	18
19	4000			-			2			-	2080			20
21		1800		(E) RECEPTACLES			1	20		(E) RM 4&5 REC		1800		22
23			1800	(E) NEAR HALL WAY REC			1	20		(E) TWO CEILING LIGHTS			1000	24
25	1800			(E) ELECTRICAL CLOSET REC			1	20		(E) BACK HALLWAY EXIT LIGHTS	1000			26
27		1800		(E) 1ST FLOOR BATH HALL REC			1	20		(E) CUSTODIAN RM REC		1200		28
29			1800	(E) REC YOUTH OFFICE			1	20		(E) KITCHEN AND BALCONY REC			1400	30
31	1800			(E) TREASURER'S OFF REC			1	20		(E) SUN SCH OFF LIGHTS	1000			32
33		2000		WALL MOUNTED SPACE HEATER	1		1	25		(E) ELECTRICAL CLOSET LIGHT		1000		34
35			1800	(E) 12V TRANSFORMER			1	20		(E) FC-1,2,3 & 4		200	200	36
37	0			SPARE			1	20		-		200		38
39		360		(N) RESTROOM REC.			1	1	20	(E) FC-5,6,7 & 8		200		40
41			720	(N) GEN. HALL REC.			4	1	20	-		200		42
	19500	18040	17920							SUB TOTALS	6980	7720	8100	
<b>DEMAND LOAD CALCULATION</b>											<b>LINE TOTALS</b>			
CATEGORY											LCL ADDER			
CONNECTED LOAD											TOTAL VA			
DEMAND FACT											LINE AMPS			
DEMAND LOAD														
(L) LIGHTING	4220			1.25	5275									
(R) RECEPTACLES	10000			1	10000									
(R) RECEPTACLES	8660			0.5	4330									
(RF) REFR. LOAD	0			1	0									
(A) HVAC LOAD	34400			1	34400									
(K) KITCHEN LOAD	7100			0.85	4615									
(M) MISC. LOAD	13960			1	13960									
TOTAL VA	78340				72580									
25% OF LARGEST MOTOR	0				0									
TOTAL AMPS:	217				TOTAL VA:	72580								

PANEL SCHEDULES

SCALE  
NTS 1

PLAN CHECK RESUBMITTAL 11-22-24  
PLAN CHECK RESUBMITTAL 11-01-24

PLAN CHECK SUBMITTAL 09-16-24  
ADACOMPLIANT RESTROOM, 2ND FLOOR OF FELLOWSHIP HALL  
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24317 NEWHALL AVE  
NEWHALL, CA 91321

PLAN CHECK NO:  
BLD24-01810

**SINGLE LINE  
DIAGRAM & PANEL  
SCHEDULES**

PROJECT NO. 24-072

**E-500**

**CITY OF SANTA CLARITA  
BUILDING & SAFETY**

**APPROVED**

Under SCMC Titles  
18, 19, 20, 21, 24, 25

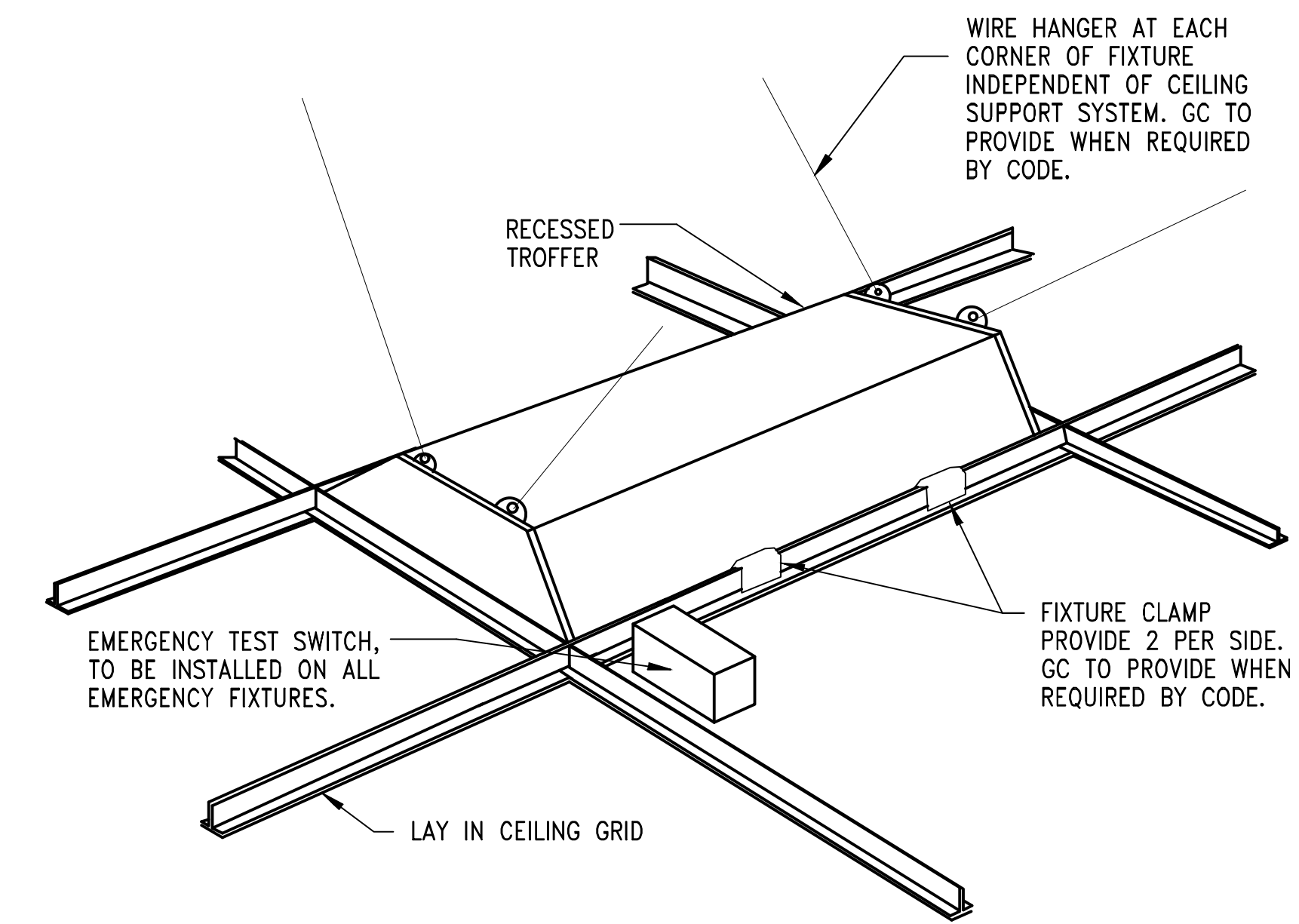
**Dec 10, 2024**

**M. Samuel**



**BLD24-01810 (MEP PLANS)**

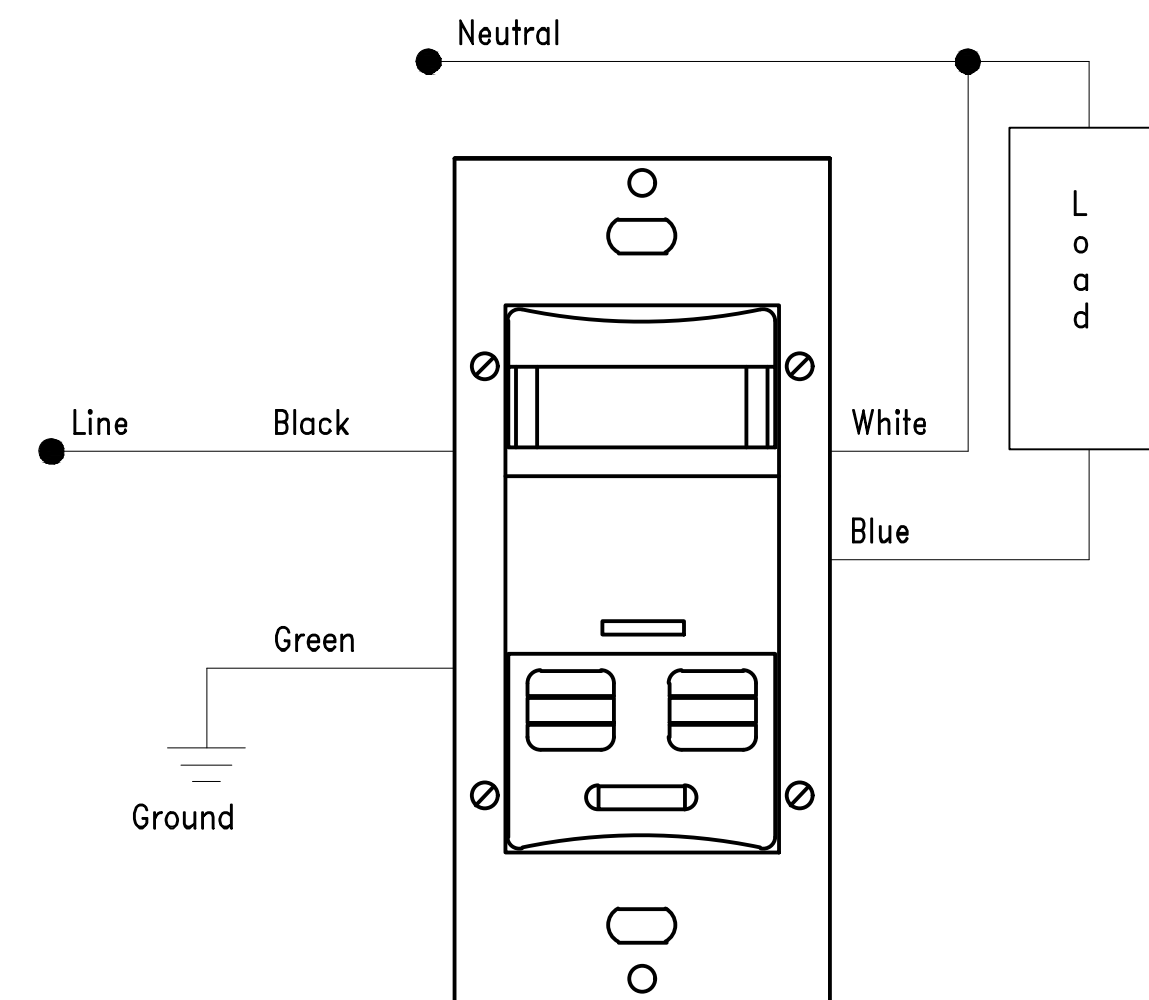
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(REFERENCE ONLY)

**RECESSED LIGHT**

SCALE  
NTS 3

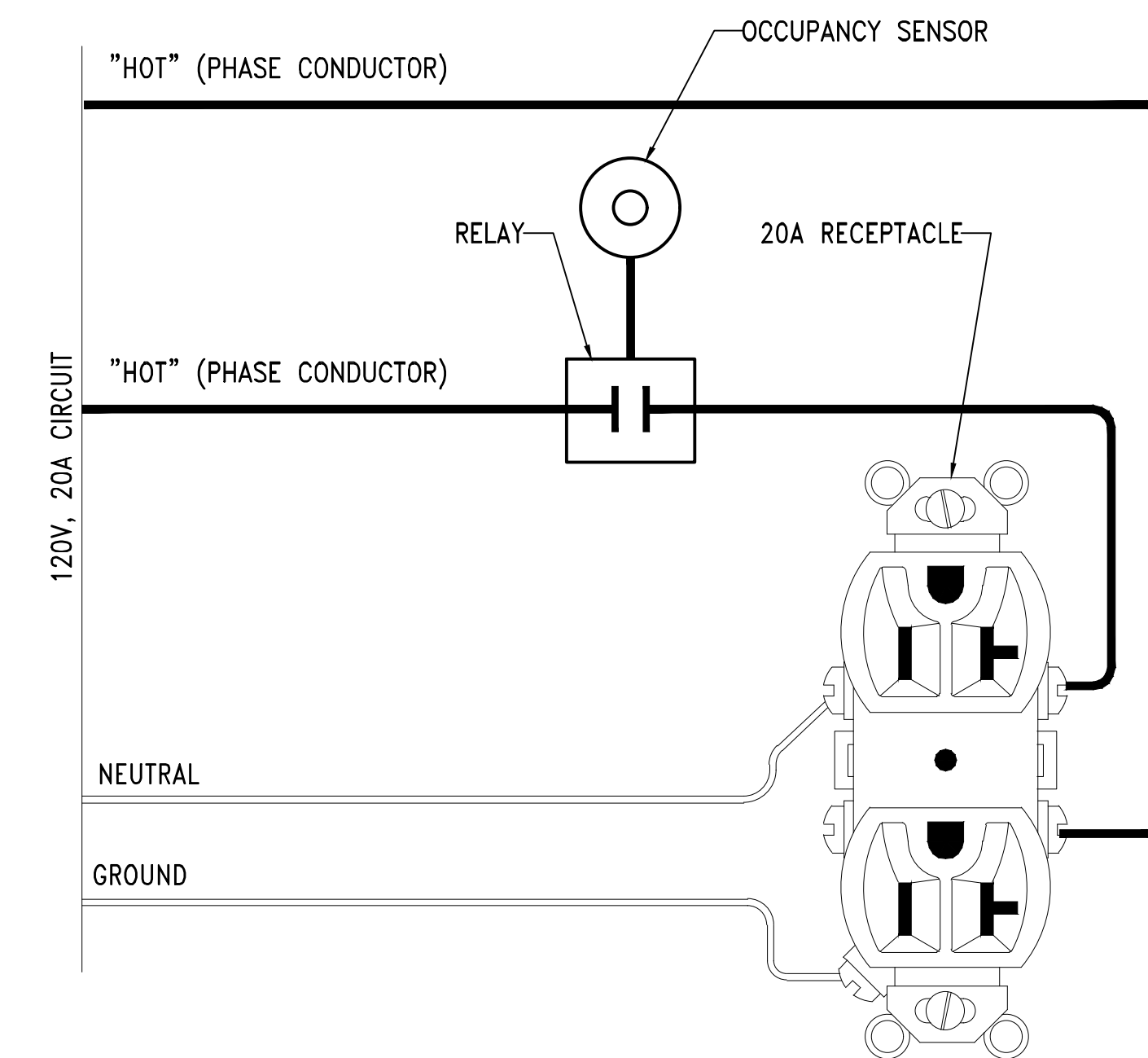


NOTE: RESTROOM SET TO 10 MINUTES.

(REFERENCE ONLY)

**OCCUPANCY SENSOR**

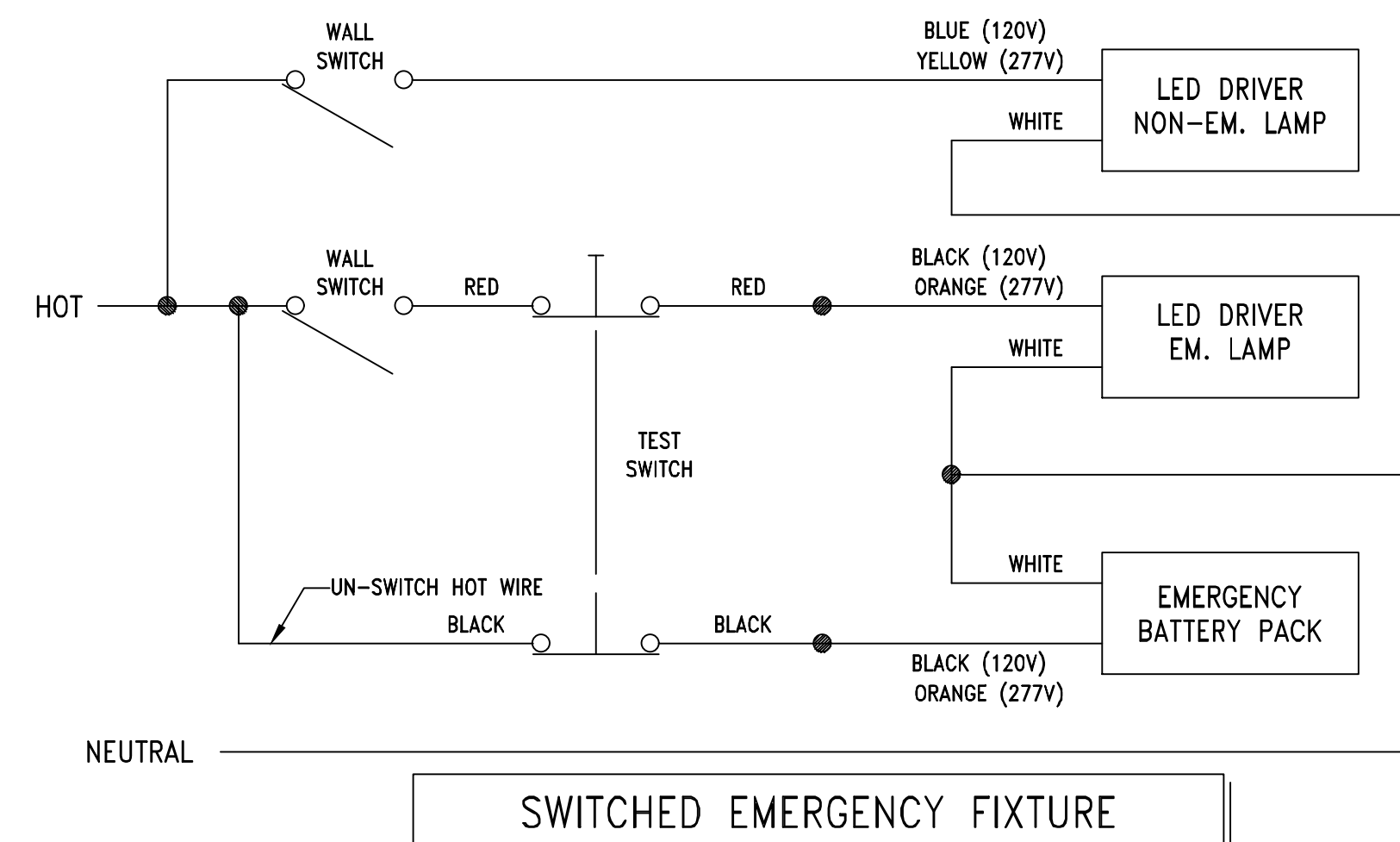
SCALE  
NTS 5



(REFERENCE ONLY)

**CONTROLLED RECEPTACLE**

SCALE  
NTS 2



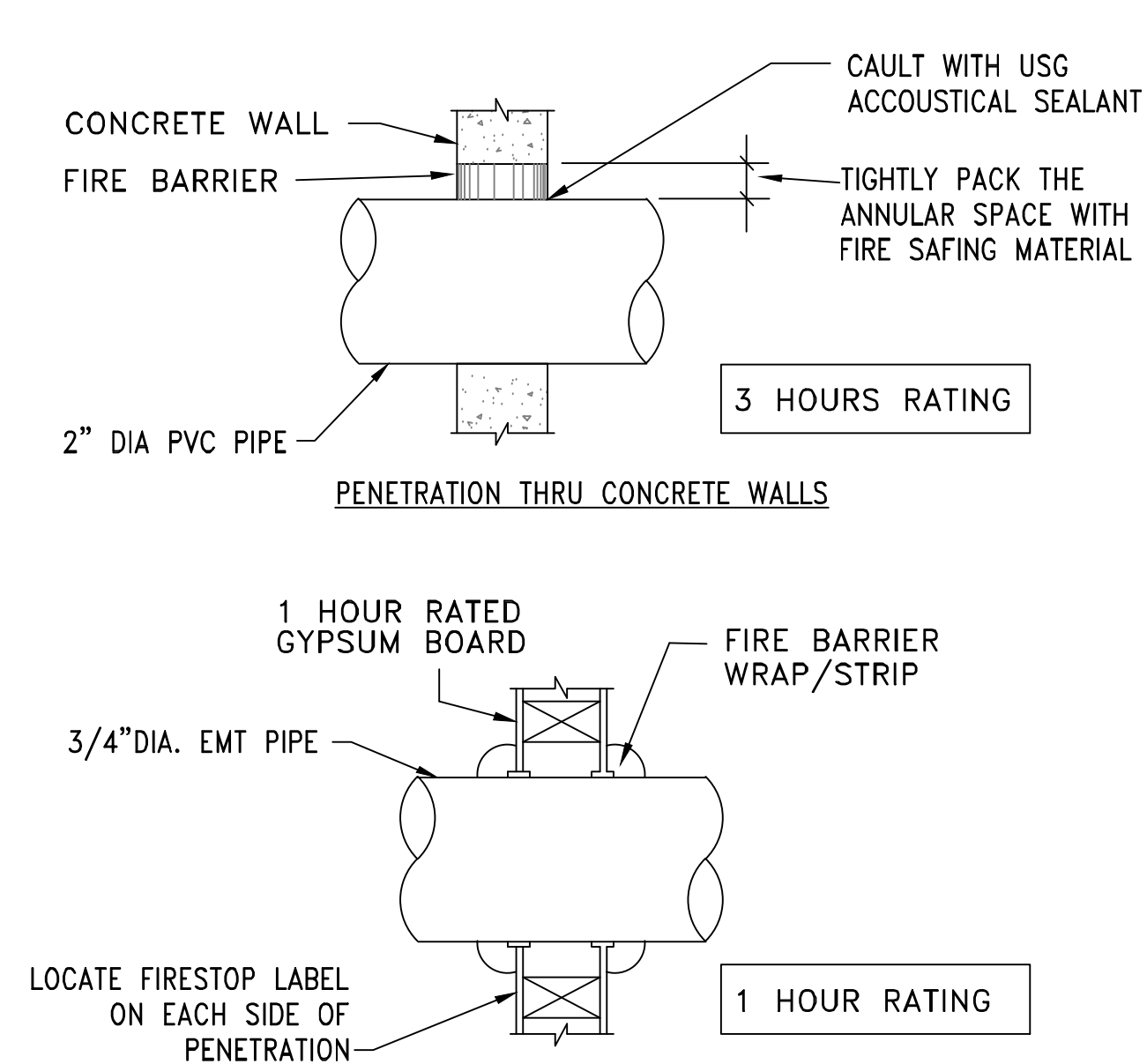
**NOTES:**

- REFER TO INSTALLATION INSTRUCTIONS FOR SAFETY INFORMATION, MOUNTING PROCEDURES AND OTHER REQUIREMENTS BEFORE CONNECTING FIXTURE TO WIRING. CAP ALL UNUSED LEADS.
- VERIFY ALL WIRE COLORS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION OF FIXTURE.

(REFERENCE ONLY)

**EMERGENCY WIRING**

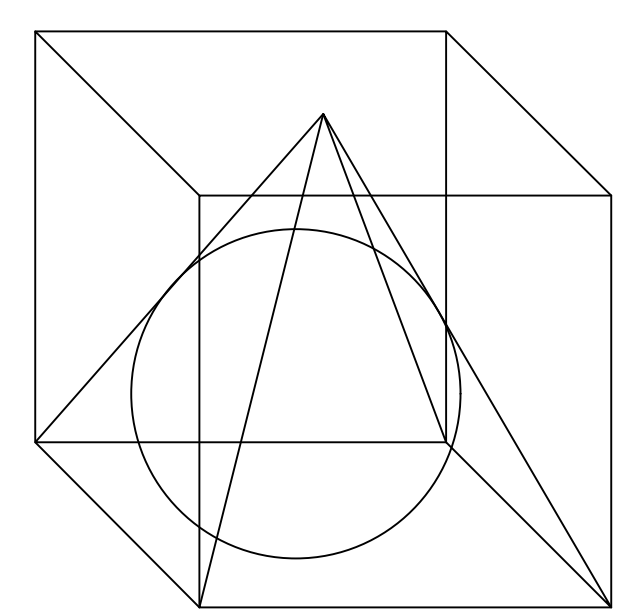
SCALE  
NTS 4



(REFERENCE ONLY)

**CONDUIT PENETRATION DETAIL**

SCALE  
NTS 1



**ARCHITECTURE**

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COSTA MESA, CALIFORNIA 92626  
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PLAN CHECK RESUBMITTAL	11-22-24
PLAN CHECK RESUBMITTAL	11-01-24
PLAN CHECK SUBMITTAL	09-16-24

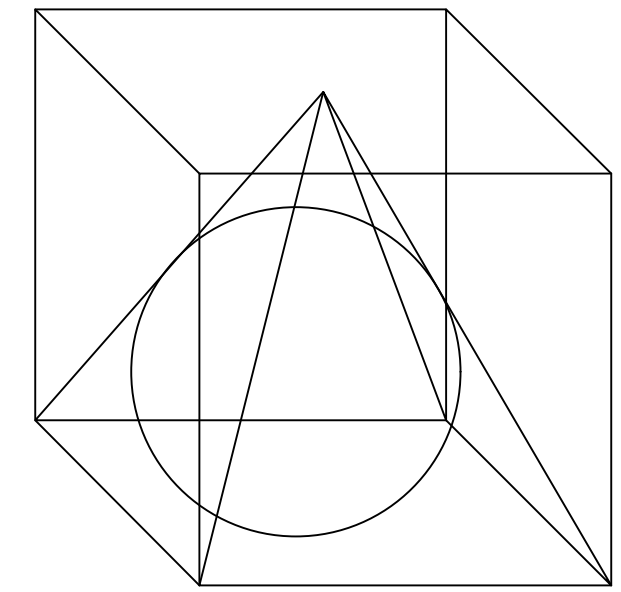
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24317 NEWHALL AVE  
NEWHALL, CA 91321

PLAN CHECK NO:  
**BLD24-01810**

**ELECTRICAL DETAILS**

PROJECT NO. **24-072**

**E-501**



MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS 31294 THE OLD ROAD SUITE 220 CASTAIC, CALIFORNIA 91384 (661) 259-7600

NAI Consulting Engineers Mechanical, Electrical, Plumbing 28043 Smyth Drive, Suite # 201, Valencia, CA 91355 (661) 244-2772



STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE NRCCL-ITI-E Project Name: FIRST PRESBYTERIAN CHURCH OF NEWHALL Report Page: (Page 1 of 7) Date Prepared: 2024-11-22T18:38:56-05:00

Table with 4 columns: Item, Description, Value, and Unit. Includes Project Location, Climate Zone, and Occupancy Types.

Table with 5 columns: Scope of Work, Conditioned Spaces, and Unconditioned Spaces. Includes My Project Consists of, New Lighting System, and Total Area of Work.

Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 225821-1124-0003

STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE NRCCL-ITI-E Project Name: FIRST PRESBYTERIAN CHURCH OF NEWHALL Report Page: (Page 2 of 7) Date Prepared: 2024-11-22T18:38:56-05:00

Table C. COMPLIANCE RESULTS. Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts) vs Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts). Compliance Results: 05 must be >= 08 140.6 / 170.2(e)

D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 225821-1124-0003

STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE NRCCL-ITI-E Project Name: FIRST PRESBYTERIAN CHURCH OF NEWHALL Report Page: (Page 4 of 7) Date Prepared: 2024-11-22T18:38:56-05:00

Table H. INDOOR LIGHTING CONTROLS (Not including PAFs). Area Level Controls table with columns 04-12. Includes Restroom, Hallway, and Field Inspector columns.

Table I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS. Table with 6 columns: 01-06. Includes Restroom, Hall, and Totals.

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STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE NRCCL-ITI-E Project Name: FIRST PRESBYTERIAN CHURCH OF NEWHALL Report Page: (Page 5 of 7) Date Prepared: 2024-11-22T18:38:56-05:00

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE / SPECIAL EFFECTS This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF)) This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS This section does not apply to this project.

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STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE NRCCL-ITI-E Project Name: FIRST PRESBYTERIAN CHURCH OF NEWHALL Report Page: (Page 3 of 7) Date Prepared: 2024-11-22T18:38:56-05:00

Table F. INDOOR LIGHTING FIXTURE SCHEDULE. Table with 10 columns: 01-10. Includes Name or Item Tag, Complete Luminaire Description, and Total Designated Watts.

FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)B / 170.2(e)2D is adjusted to be 75% / 80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

G. MODULAR LIGHTING SYSTEMS This section does not apply to this project.

Table H. INDOOR LIGHTING CONTROLS (Not including PAFs). Building Level Controls table with columns 01-03. Includes Mandatory Demand Response and Shut-off controls.

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STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE NRCCL-ITI-E Project Name: FIRST PRESBYTERIAN CHURCH OF NEWHALL Report Page: (Page 6 of 7) Date Prepared: 2024-11-22T18:38:56-05:00

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF) This section does not apply to this project.

T. DWELLING UNIT LIGHTING This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E.

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E.

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STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE NRCCL-ITI-E Project Name: FIRST PRESBYTERIAN CHURCH OF NEWHALL Report Page: (Page 7 of 7) Date Prepared: 2024-11-22T18:38:56-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. Includes signature of Sam Nakhla and company NAI Consulting Engineers.

Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 225821-1124-0003

CITY OF SANTA CLARITA BUILDING & SAFETY APPROVED Under SCMC Titles 18, 19, 20, 21, 24, 25 Dec 10, 2024 M. Samuel



BLD24-01810 (MEP PLANS)

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Table with 2 columns: Item and Date. Includes PLAN CHECK RESUBMITTAL, PLAN CHECK SUBMITTAL, and ADACOMPLIANT RESTROOM, 2ND FLOOR OF FELLOWSHIP HALL.

INDOOR LIGHTING TITLE 24

PROJECT NO. 24-072

E-600

GENERAL NOTES

- CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF THE UTILITIES BEFORE STARTING TRENCHING WORK, OR THE INSTALLATION OF ANY PIPING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL PERMITS & PAYING ALL FEES REQUIRED TO PERFORM WORK SHOWN ON THESE DRAWINGS.
- THE DRAWINGS ARE DIAGRAMMATIC. THE LOCATION OF THE PIPING IS APPROXIMATE. COORDINATE THE LOCATION OF PIPING WITH OTHER TRADES. ANY CONFLICTS WITH OTHER TRADES SHALL BE RESOLVED PRIOR TO INSTALLATION.
- UNDERGROUND PIPING SHALL CLEAR ALL FOOTINGS IN AN APPROVED MANNER. SEE STRUCTURAL DRAWINGS FOR REQUIRED CLEARANCE AND FOOTING PENETRATION LOCATIONS.
- ALL EXCAVATION AND BACKFILL SHALL CONFORM TO THE SPECIFIC SECTION OF THE SPECIFICATIONS FOR EXCAVATIONS AND BACKFILL.
- ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE LATEST CURRENT EDITION OF THE 2022 CALIFORNIA PLUMBING CODE, TITLE 24, CALIFORNIA STATE FIRE MARSHALL REQUIREMENTS, TITLE 19, & ALL APPLICABLE CODES AND REGULATIONS.
- CONCEAL ALL PIPING IN FINISHED PORTIONS OF THE BUILDING, UNLESS NOTED OTHERWISE.
- CONSULT ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS, LOCATIONS AND ELEVATION OF FIXTURES.
- SANITARY VENTS THRU ROOFS SHALL TERMINATE AT LEAST 10' AWAY FROM, OR 3' ABOVE ANY OPERABLE WINDOW AND 10' AWAY FROM COMBUSTION AIR OPENINGS AND FRESH AIR INTAKES. PROVIDE VENTS WITH VANDAL PROOF VENT CAPS.
- PROVIDE GAS SHUT-OFF VALVES AT ALL GAS FIRED EQUIPMENT.
- TILETS SHALL BE HIGH-EFFICIENCY WITH MAXIMUM 1.28 GALLONS PER FLUSH (GPF).
- COMPLY WITH THE STATE OF CALIFORNIA ENERGY COMMISSION BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, SUBCHAPTER 2 & 3) INCLUDING THE FOLLOWING:
  - WATER HEATERS SHALL BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION AS COMPLYING WITH THEIR EFFICIENCY STANDARD (SECTION 110.3 (A) TABLE NO.1-D)
  - LOW TEMPERATURE PIPE MINIMUM INSULATION, 105°F TO 200°F. (SUBCHAPTER 3 SECTION 120.3 TABLE 120.3-A)
  - LAVATORY FAUCETS AND SINK FAUCETS (NOT INCLUDING SERVICE SINK FAUCETS) SHALL MEET THE FLOW REQUIREMENTS OUTLINED IN THE TITLE 24 SECTION 110.3 (A) & (B).
  - LAVATORIES IN PUBLIC RESTROOMS SHALL HAVE A MAXIMUM FLOW RATE OF 0.5 GPM.
  - ALL PIPE AND EQUIPMENT INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DEVELOPMENT REQUIREMENTS OF SECTIONS 902 & 707 PART 2 SECTION 119 (C).
- ALL PLUMBING FIXTURES INDICATED WITH AN "A" SUBLETTER AFTER THE FIXTURE NUMBER SHALL BE INSTALLED FOR ADA AND DSA REQUIREMENTS USE AS FOLLOWS:
  - WATER CLOSET: INSTALL WITH TOP OF SEAT 17" TO 19" ABOVE FINISHED FLOOR. FLUSHOMETER VALVE, BATTERY SENSOR OPERATED WITH OVERRIDE PUSH BUTTON & MAXIMUM OPERATING AT 1.28 GPF. FOR FACULTY RESTROOM THE FLUSH VALVE SHALL BE OPERATED BY AN OSCILLATING HANDLE W/1.28 GPF & THIS HANDLE SHALL FACE THE SIDE WALL FURTHEST FROM THE CENTER LINE OF THE FIXTURE.
  - LAVATORIES: INSTALL WITH BOTTOM OF APRON 29" ABOVE FINISHED FLOOR. PROVIDE HOT & COLD WATER W/STOPS FOR FACULTY USE & INSULATE HOT WATER STOP, DRAIN TAILPIECE & TRAP. FOR STUDENTS RESTROOM PROVIDE COLD WATER ONLY METERED FAUCET COMPLETE ASSEMBLY, STOP, DRAIN TAILPIECE AND TRAP.
- ALL DRAIN AND SEWER LINES SHALL HAVE A MINIMUM 1/4" PER FEET (2%) SLOPE.
- CONTRACTOR SHALL VISIT JOB SITE AND VERIFY ALL APPLICABLE CONDITIONS PRIOR TO BID.
- ALL PLUMBING EQUIPMENT SHALL BE BRACED AND/OR ANCHORED TO RESIST LATERAL FORCES ACTING IN ANY DIRECTION PER ASCE7.
- PROVIDE CONDENSATE DRAIN AS REQUIRED TO MECHANICAL EQUIPMENT IN COMPLIANCE WITH CPC, SPECIFICATION & DRAWINGS.
- WHERE IT HAS BEEN RECOMMENDED BY THE SOIL SURVEY REPORT TO PROVIDE PIPE PROTECTION FROM UNDERGROUND CORROSIVE SOIL(S), PIPES SHALL BE PROTECTED/ENCASED PER THE INSTALLATION/ENCASEMENT PORTIONS OF ASTM-74, ASTM D 2321 & AWWA C105 AS APPLIES.
- PROVIDE CONDENSATE AND OVERFLOW DRAIN PIPING TO MECHANICAL EQUIPMENT W/ TRAP, UNIONS & FLEXIBLE CONNECTIONS AND SPILL TO APPROVED RECEPTACLE OR CONNECT TO TAILPIECE. INSULATE ALL CONDENSATE AND OVERFLOW DRAIN PIPING INSIDE BUILDING. SLOPE ALL PIPING @ 1/4" PER FOOT.
- PROVIDE PIPE INSULATION AS INDICATED ON SPECIFICATION AND INSULATE ALL PLUMBING EXPOSED PIPING WITHIN THE BUILDING IN AMBIENT TEMPERATURES & AIR CONDITIONING AREAS.
- ALL FIXTURES, EQUIPMENT, PIPING, AND MATERIALS SHALL BE LISTED (CPC 301.2).
- ALL PLUMBING FIXTURES SHALL MEET THE FLOW REQUIREMENTS SPECIFIED IN CPC TABLE L 402.1.
- ALL FAUCETS IN PUBLIC RESTROOMS SHALL BE SELF-CLOSING OR SELF-CLOSING METERING FAUCETS (CPC 407.4).
- PUBLIC LAVATORIES SHALL HAVE CONTROLS TO LIMIT THE WATER TEMPERATURE TO 110° F (CPC 407.3).
- WATER PIPE AND FITTINGS WITH A LEAD CONTENT WHICH EXCEEDS 8% SHALL BE PROHIBITED IN SYSTEMS CONVEYING POTABLE WATER (CPC 804.2.1).
- EXISTING CONDITIONS SHOWN ON FLOOR PLANS AND RISER DIAGRAMS ARE NOT PART OF THIS PLAN CHECK.

SCOPE OF WORK

- Plumbing Engineering
  - Perform analysis of plumbing requirements
  - Design plumbing system
  - Design water supply (cold and hot) and drainage
  - Show water distribution to plumbing fixtures and equipment
  - Design sanitary collection system
  - Water heater sizing and selection.

LEGEND & ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
	ABV	ABOVE
	AD	AREA DRAIN
	ADA	AMERICANS WITH DISABILITIES ACT
	ASSY	ASSEMBLY
	BEL	BELOW
	BFP	BACKFLOW PREVENTER
	CFH	CUBIC FEET PER HOUR
	CLG	CEILING
	CO	CLEANOUT
	CONT	CONTINUATION
	CP	CIRCULATING PUMP
	CV	CHECK VALVE
	DFU	DRAINAGE FIXTURE UNIT
	DN	DOWN
		DROP
	DS	DOWNSPOUT
	DSA	DIVISION OF THE STATE ARCHITECT
	E	EXISTING
	FCO	FLOOR CLEANOUT
	FD	FLOOR DRAIN
	FG	FINISHED GRADE
	FS	FLOOR SINK
	FT	FLUSH TANK
	FU	FIXTURE UNIT
	FV	FLUSH VALVE
	GCO	GRADE CLEANOUT
	GPM	GALLON PER MINUTE
	GPR	GAS PRESSURE REGULATOR
	HZ	HERTZ
	HOSE BIBB	HOSE BIBB
	IE	INVERT ELEVATION
	MAX	MAXIMUM
	MH	MANHOLE
	MIN	MINIMUM
	MFR	MANUFACTURER
	N	NEW
	NIC	NOT IN CONTRACT
	NTS	NOT TO SCALE
	PH	PHASE
	POC	POINT OF CONNECTION
	PRV	PRESSURE REDUCING VALVE
	PSI	POUNDS PER SQUARE INCH
	R	EXISTING TO BE RELOCATED
	RD	ROOF DRAIN
	RISE	RISE
	RPPA	REDUCED PRESSURE PRINCIPLE ASSEMBLY
	SOV	SHUTOFF VALVE
	TP	TRAP PRIMER
	TYP	TYPICAL
	VTR	VENT THRU ROOF
	WCO	WALL CLEANOUT
	WHA	WATER HAMMER ARRESTOR
	WH	WATER HEATER
	W/	WITH
	V	VOLTAGE

LEGEND & ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
---	AIR	COMPRESSED AIR
---	CD	CONDENSATE DRAIN
---	CW	COLD WATER
---	FW	FILTERED WATER
---	G	GAS
---	GW	GREASE WASTE
---	GWV	GRAYWATER WASTE
---	HW	HOT WATER
---	HWR	HOT WATER RETURN
---	MPG	MEDIUM PRESSURE GAS
---	OD	OVERFLOW DRAIN
---	PD	PUMP DISCHARGE
---	RO	REVERSE OSMOSIS WATER
---	SCD	SECONDARY CONDENSATE DRAIN
---	SD	STORM DRAIN
---	V	VENT
---	W/S	WASTE/SEWER

PLUMBING SCHEDULES

NEW PLUMBING FIXTURE BRANCH CONNECTION SCHEDULE													
FIXTURE NAME	TAG	QUANTITY	WASTE			VENT SIZE	COLD WATER			HOT WATER			DESCRIPTION
			SIZE	DFU (EA.)	TOTAL DFU		SIZE	WSFU (EA.)	TOTAL WSFU	SIZE	WSFU (EA.)	TOTAL WSFU	
WATER CLOSET (F.T.)	WC-1	1	4"	4.0	4.0	2"	3/4"	2.5	2.5	--	--	--	FLUSH TANK, 1.28 GPF, FLOOR MOUNTED, ADA
LAVATORY	L-1	1	2"	1.0	1.0	2"	1/2"	1.0	1.0	1/2"	0.75	0.75	COUNTER MOUNTED, 0.5 GPM. ADA

NEW INSTANTANEOUS WATER HEATER												
FIXTURE NAME	TAG	QUANTITY	MAKE	MODEL	WATTAGE (kW)	VOLTAGE (V)	AMP LOAD (A)	ACTIVATION (GPM)	GPM @ 65° TEMP RISE	OPER. WT. (LBS.)	REMARKS	
INSTANTANEOUS WATER HEATER	IWH-1	1	CHRONOMITE	SR-20L/208	4.16	208	20	0.35	0.4	5	LISTED UL, IAPMO, UPC, ADA, ETL. SET @ 110°F	

PIPE MATERIAL SCHEDULE			
SERVICE	PIPE	FITTINGS	LOCATION
WASTE & VENT	CAST IRON NO HUB	CAST IRON NO HUB	ABOVE GRADE BELOW GRADE
STORM DRAIN	CAST IRON NO HUB	CAST IRON NO HUB	ABOVE GRADE BELOW GRADE
HOT AND COLD WATER	COPPER TYPE "L" HARD DRAWN	WROUGHT COPPER	ABOVE GRADE BELOW GRADE
INDIRECT WASTE CONDENSATE DRAIN	COPPER TYPE "M"	WROUGHT COPPER	ABOVE GRADE BELOW GRADE

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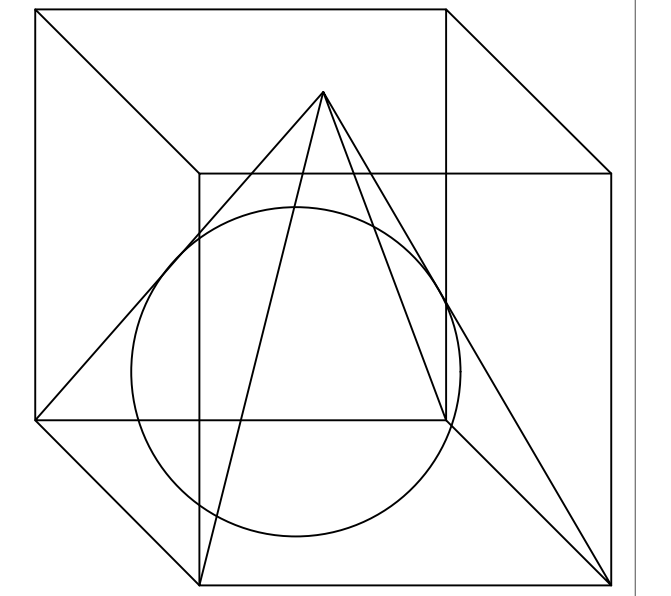
**APPROVED**  
Under SCMC Titles  
18, 19, 20, 21, 24, 25

**Dec 10, 2024**  
*M. Samuel*



**BLD24-01810 (MEP PLANS)**

The approved plans must be available at the construction site at all times. Changes or alterations to approved plans shall not be made without written permission from the City of Santa Clarita Building & Safety Division. The approval of these plans shall not be construed to permit or approve any violation of the applicable codes, ordinances, or other laws.



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PLAN CHECK RESUBMITTAL 11-01-24

PLAN CHECK SUBMITTAL 09-16-24

ADACOMPLIANT RESTROOM, 2ND FLOOR OF FELLOWSHIP HALL

FIRST PRESBYTERIAN CHURCH OF NEWHALL

24317 NEWHALL AVE  
NEWHALL, CA 91321

PLAN CHECK NO:

**BLD24-01810**

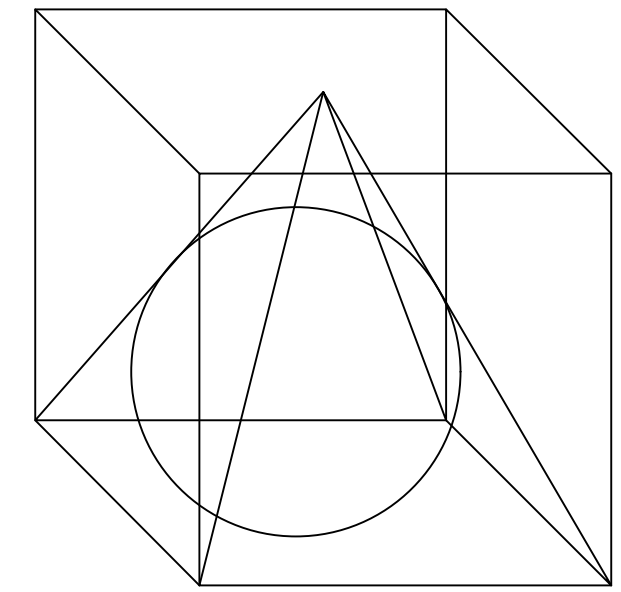
GENERAL NOTES, SYMBOLS, SHEET INDEX & SCHEDULES

DRAWING INDEX

SHEET #	SHEET NAME
P-100	GENERAL NOTES, SYMBOLS, SHEET INDEX & SCHEDULES
P-200	PLUMBING SITE PLAN
P-201	FIRST AND SECOND FLOOR WASTE AND VENT FLOOR PLANS
P-301	FIRST AND SECOND FLOOR HOT & COLD WATER FLOOR PLANS
P-601	PLUMBING DETAILS

PROJECT NO. **24-072**

**P-100**



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**KEY NOTES:**

- ① (N)4"WASTE (5FU), FOR CONTINUATION SEE SHEET P-201.
- ② POC - CONNECT (N)4"WASTE (5FU) TO (E)4"WASTE BELOW GRADE.
- ③ (N)3/4"COLD WATER (3.5FU), FOR CONTINUATION SEE SHEET P-301.
- ④ POC -C CONNECT (N)3/4"COLD WATER TO (E)1"COLD WATER BELOW GRADE.

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**Dec 10, 2024**

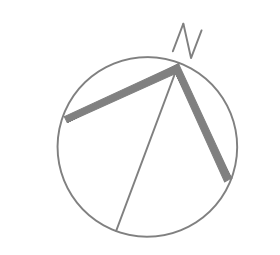
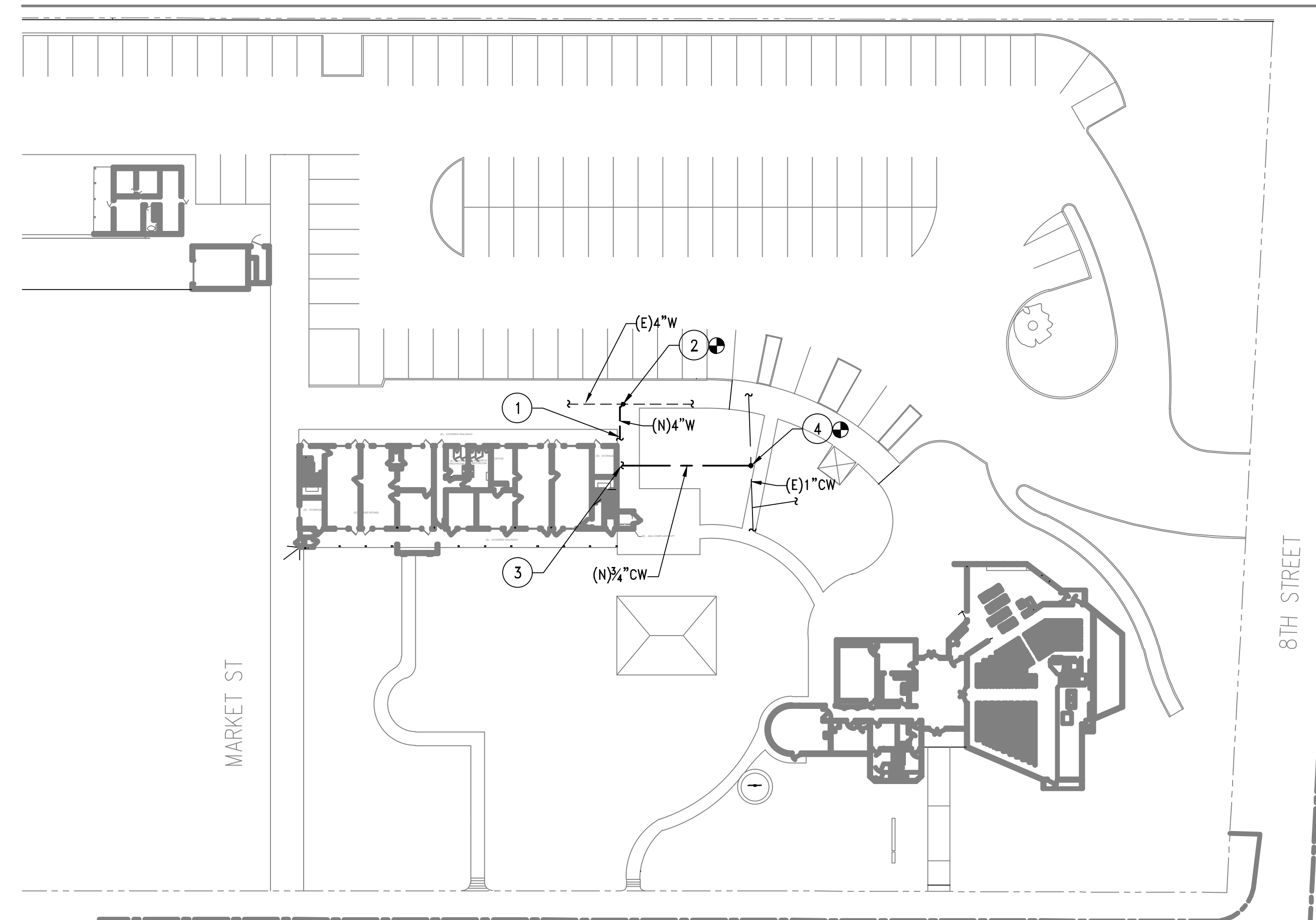
*M. Samuel*



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**PLOT PLAN**



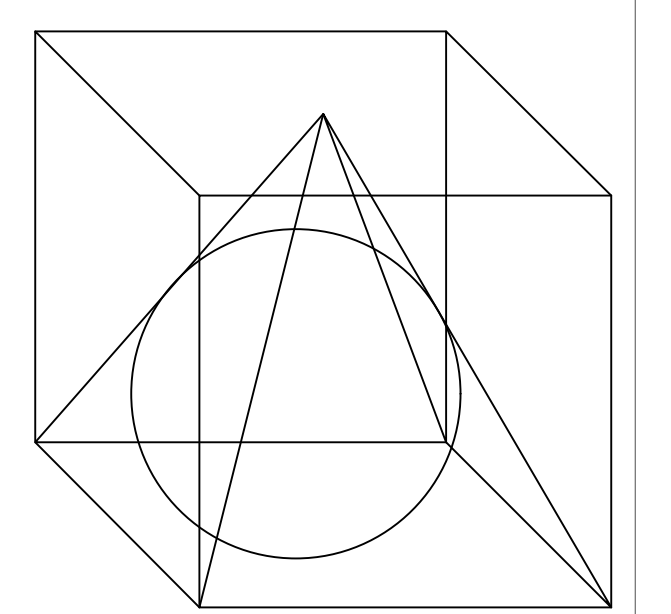
SCALE 1/32"=1'-0"

PLAN CHECK RESUBMITTAL	11-01-24
PLAN CHECK SUBMITTAL	09-16-24
ADACOMPLIANT RESTROOM, 2ND FLOOR OF FELLOWSHIP HALL	
<b>FIRST PRESBYTERIAN CHURCH OF NEWHALL</b>	
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PLAN CHECK NO:	BLD24-01810

PLUMBING  
SITE PLAN

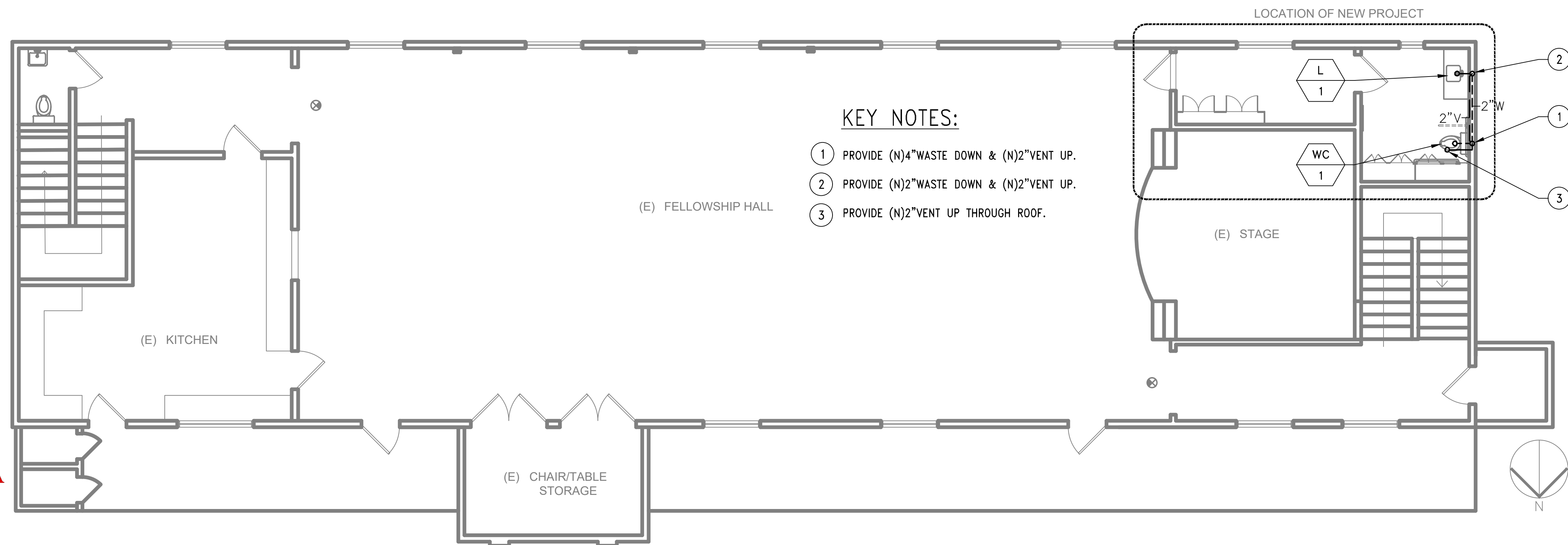
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**P-200**



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SECOND FLOOR WASTE AND VENT PLUMBING PLAN

SCALE 3/16"=1'-0" 2

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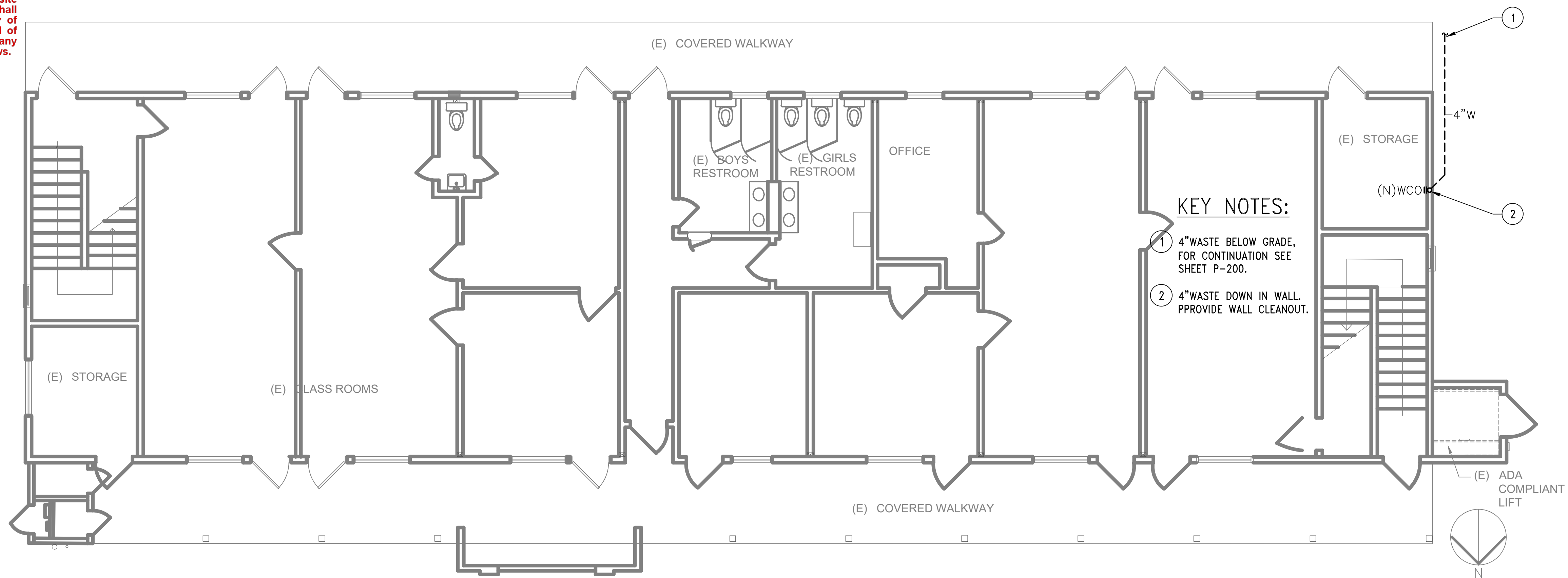
Dec 10, 2024

M. Samuel



BLD24-01810 (MEP PLANS)

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FIRST FLOOR WASTE AND VENT PLUMBING PLAN

SCALE 3/16"=1'-0" 1

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PLAN CHECK SUBMITTAL 09-16-24

ADACOMPLIANT RESTROOM, 2ND FLOOR OF FELLOWSHIP HALL

FIRST PRESBYTERIAN CHURCH OF NEWHALL

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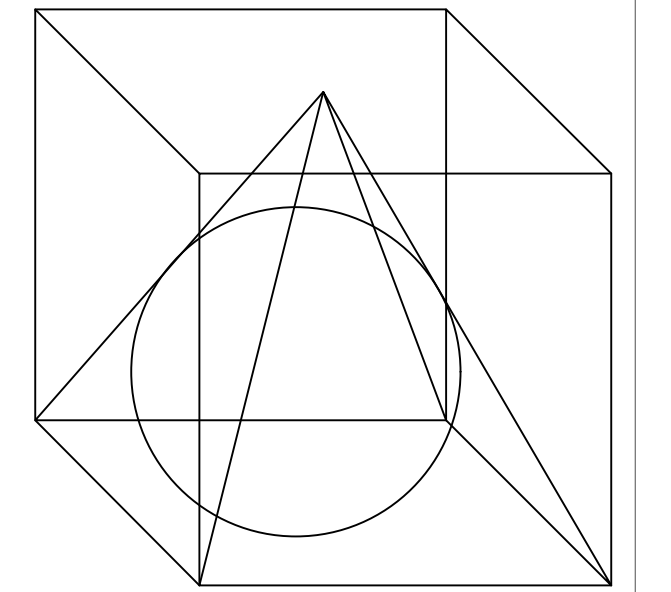
PLAN CHECK NO:

BLD24-01810

FLOOR WASTE AND VENT PLUMBING PLAN

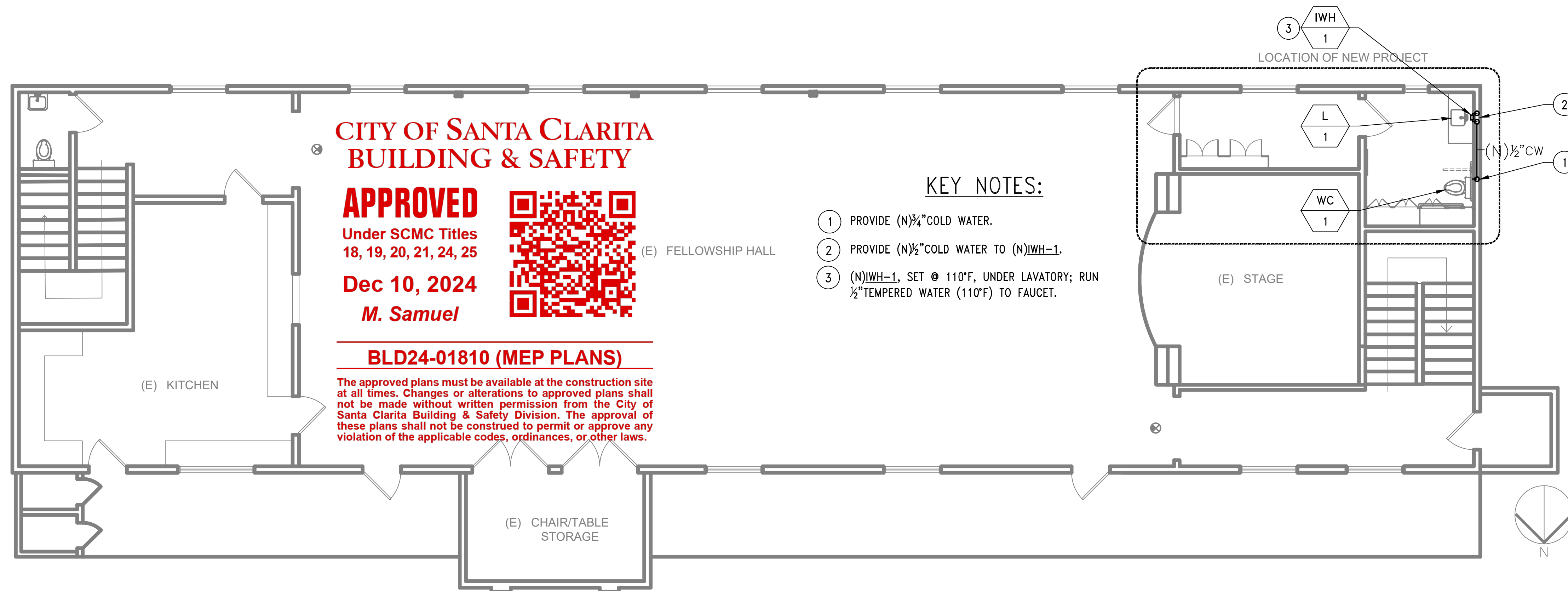
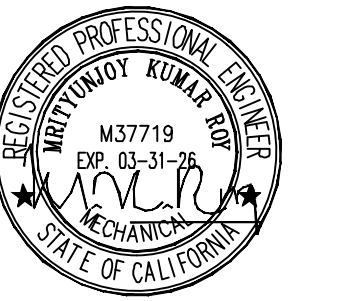
PROJECT NO. 24-072

P-201



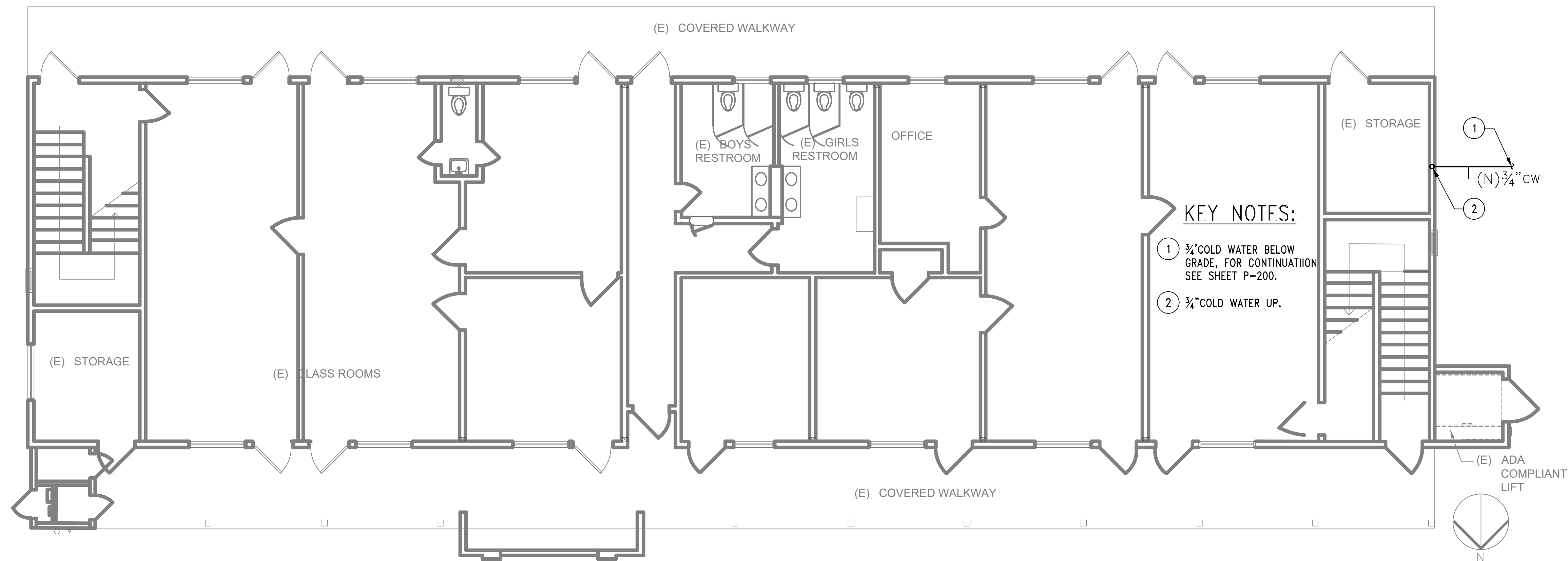
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SECOND FLOOR HOT AND COLD WATER PLAN

SCALE 3/16"=1'-0" 2



FIRST FLOOR HOT AND COLD WATER PLAN

SCALE 3/16"=1'-0" 1

PLAN CHECK RESUBMITTAL 11-01-24  
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ADACOMPLIANT RESTROOM, 2ND FLOOR OF FELLOWSHIP HALL  
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PLAN CHECK NO:  
**BLD24-01810**

FLOOR  
HOT AND COLD  
WATER PLAN

PROJECT NO. 24-072

P-301

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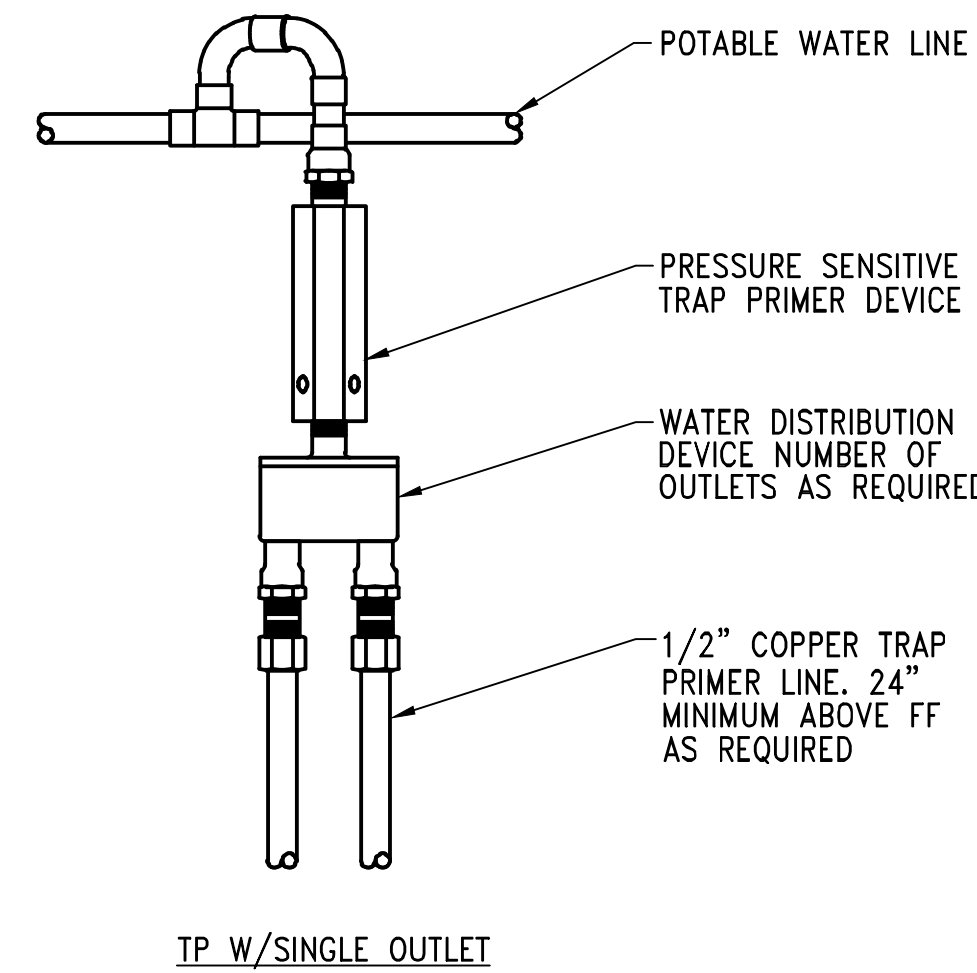
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**BLD24-01810 (MEP PLANS)**

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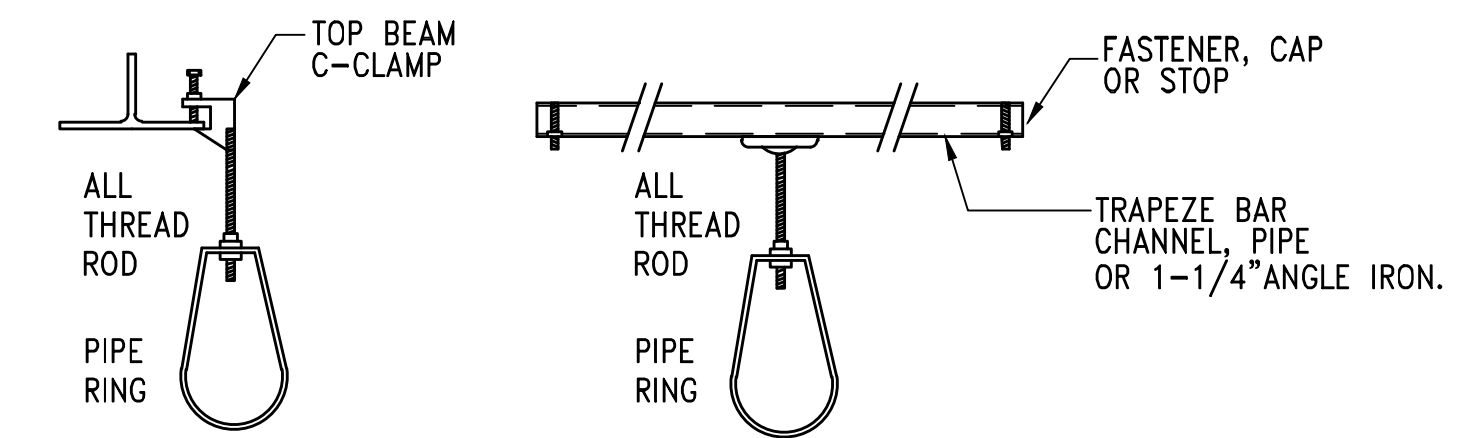


TP W/SINGLE OUTLET

SCALE  
NTS 9

TRAP PRIMER DETAIL

SCALE  
NTS 6



HANGER ROD SIZES*	
PIPE AND TUBE SIZE (INCHES)	ROD SIZE (INCHES)
1/2 - 4	3/8
5 - 8	1/2
10 - 12	5/8

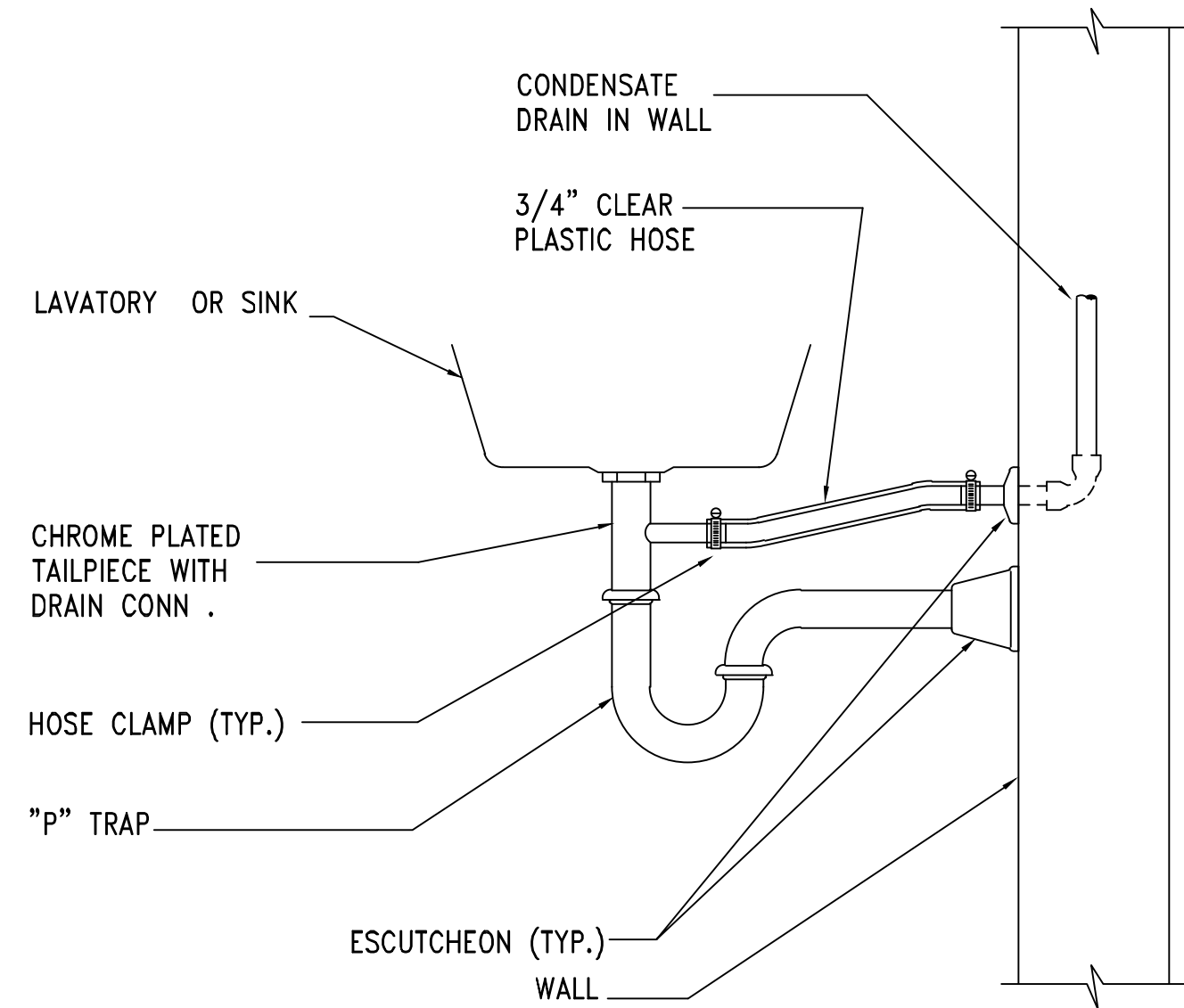
\*ROD SIZES PER CPC TABLE 313.6.

PIPE HANGER SPACING*			
PIPE MATERIAL	PIPE AND TUBE SIZE	HORIZONTAL SPACING	VERTICAL SPACING
COPPER	1-1/2" AND SMALLER	6'	EACH FLOOR, NOT TO EXCEED 10'
	2" AND LARGER	10'	
CAST IRON HUBLESS**	ALL SIZES	EVERY OTHER JOINT, UNLESS OVER 4' THEN SUPPORT EACH JOINT	BASE AND EACH FLOOR, NOT TO EXCEED 15'
STEEL PIPE (FOR GAS)	1/2"	6'	6'
	3/4" - 1"	8'	8'
	1-1/4" AND LARGER	10'	EVERY FLOOR LEVEL

\*PIPE HANGER SPACING PER CPC TABLE 313.3.  
\*\*SUPPORT ADJACENT TO JOINT, NOT TO EXCEED 18". BRACE NOT TO EXCEED 40' INTERVALS TO PREVENT HORIZONTAL MOVEMENT. SUPPORT AT EACH HORIZONTAL BRANCH CONNECTION. HANGERS SHALL NOT BE PLACED ON THE COUPLING.

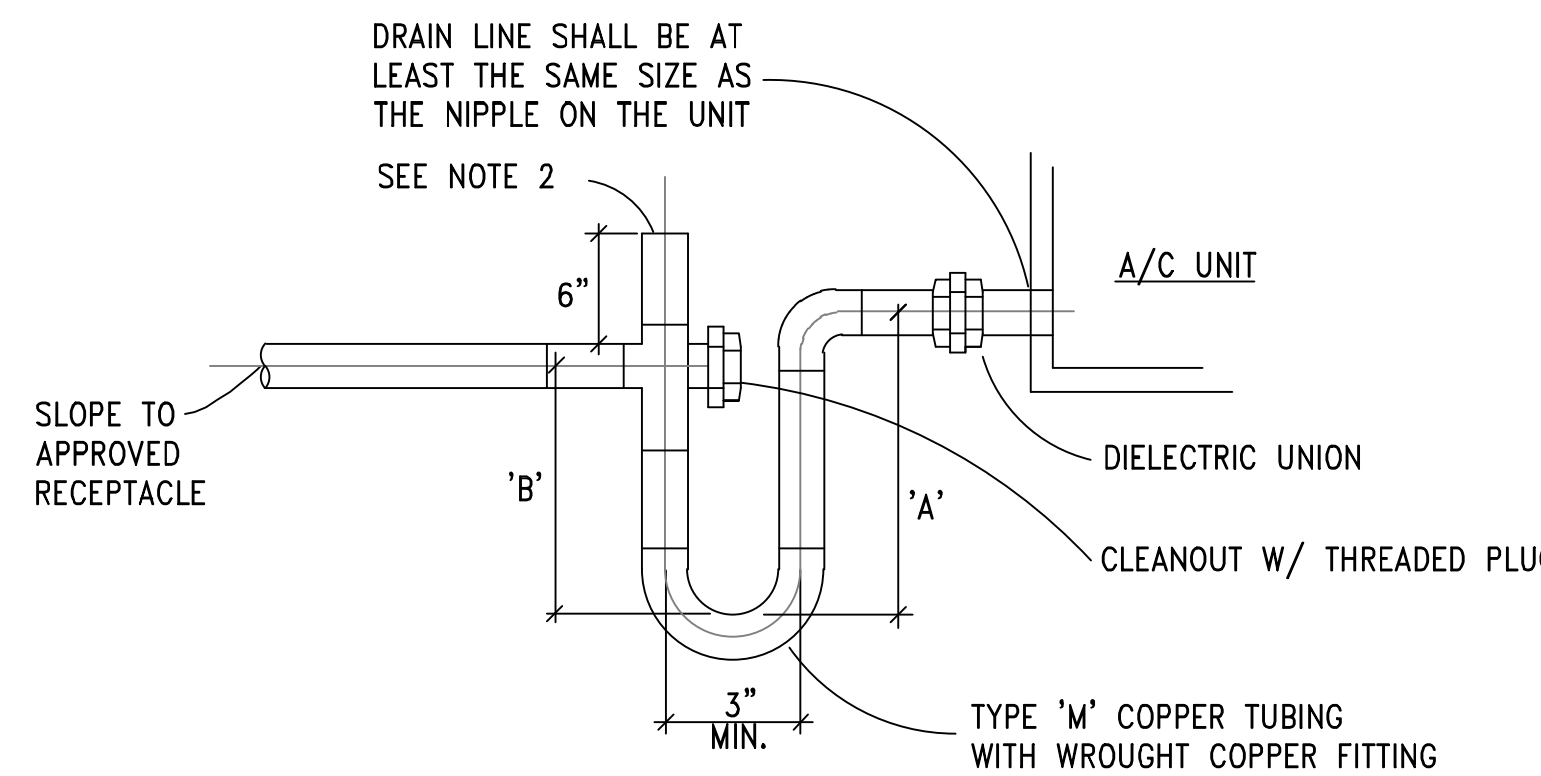
SCALE  
NTS 3

PIPE HANGER SUPPORT SCHEDULE



CONDENSATE DRAIN TO LAVATORY TAILPIECE

SCALE  
NTS 8



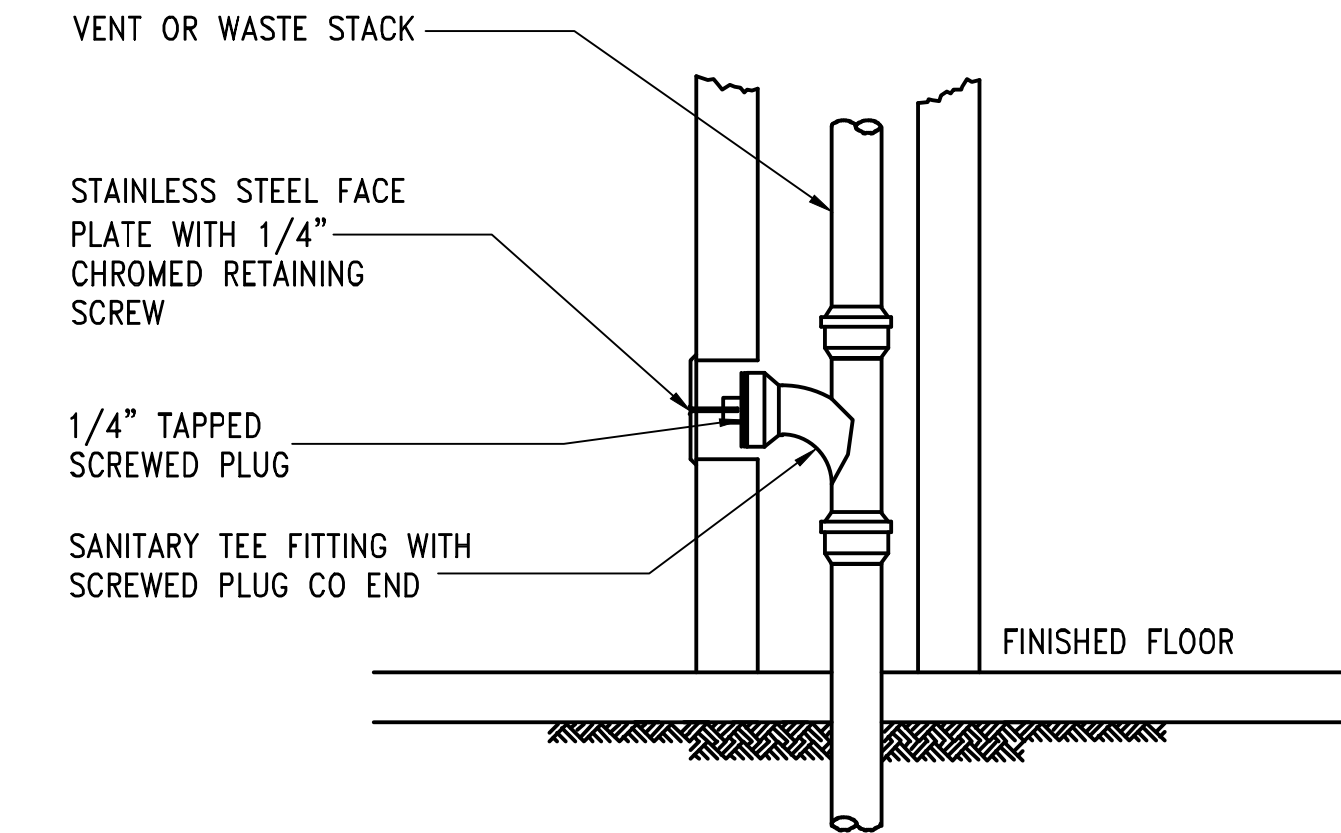
- NOTES:
- ALL INTERIOR CONDENSATE DRAINS ABOVE CEILING SHALL BE INSULATED
  - IF HORIZONTAL RUN IS GREATER THAN 15 FT, INSTALL VENT, SAME SIZE AS DRAIN.

UNIT TYPE	'A'	'B'
DRAW THRU	S.P.x1.5+2"	S.P.x0.5+1"
BLOW THRU	S.P.x1.5+2"	S.P.x1.5+2"

S.P. = SYSTEM STATIC PRESSURE-INCHES

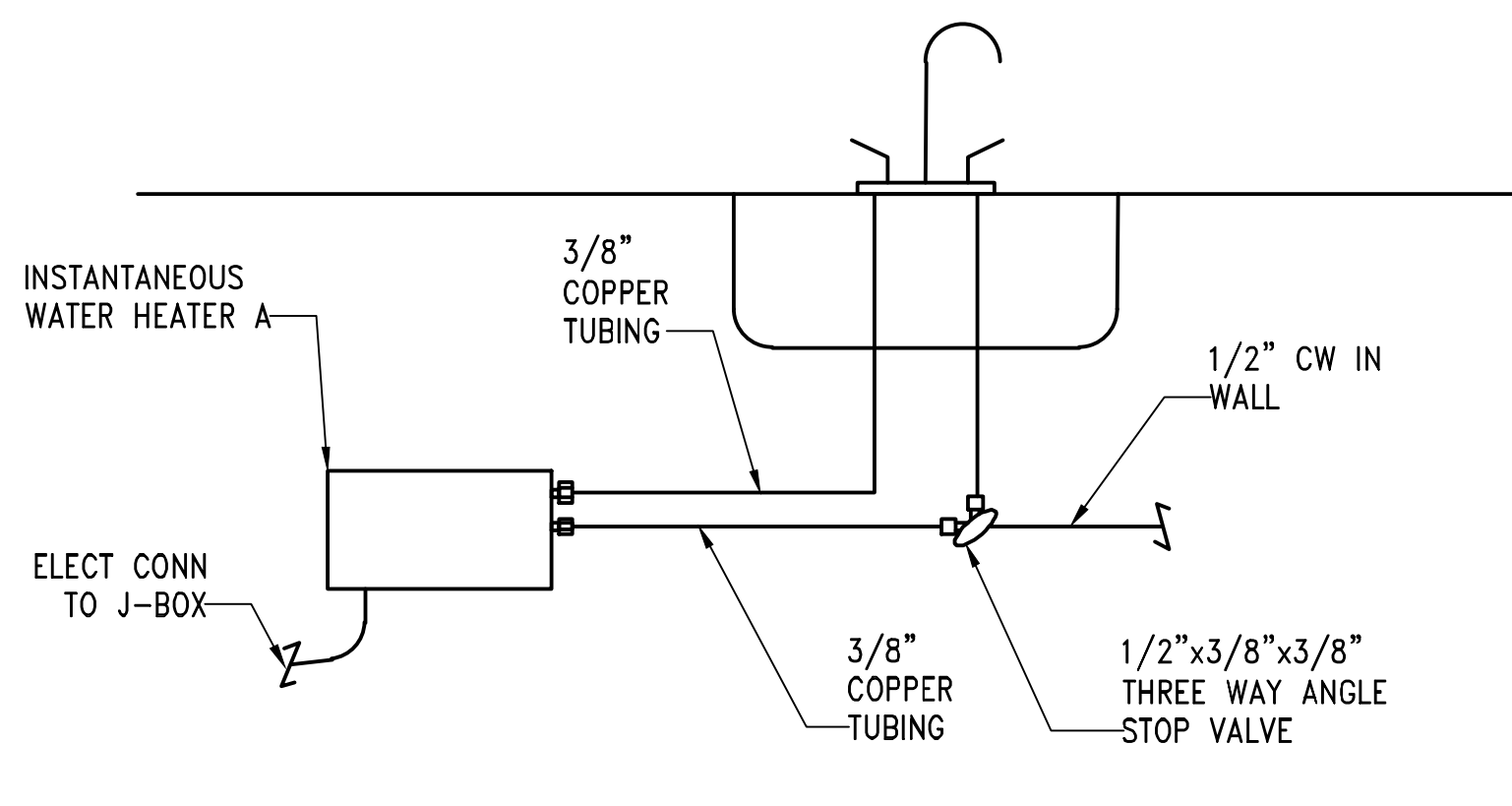
SCALE  
NTS 5

CONDENSATE DRAIN CONNECTION DETAIL



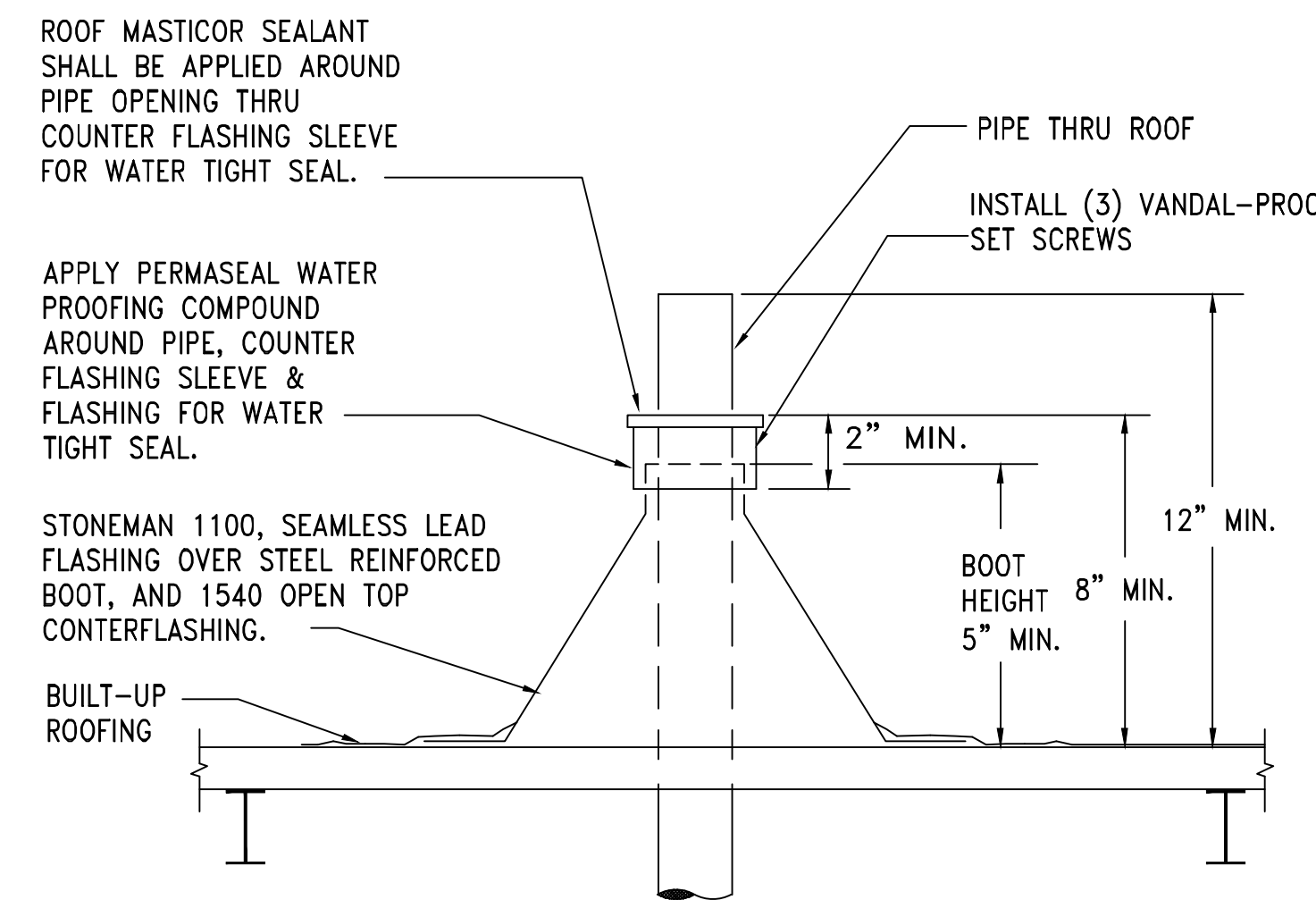
SANITARY SEWER WALL CLEANOUT DETAIL

SCALE  
NTS 2



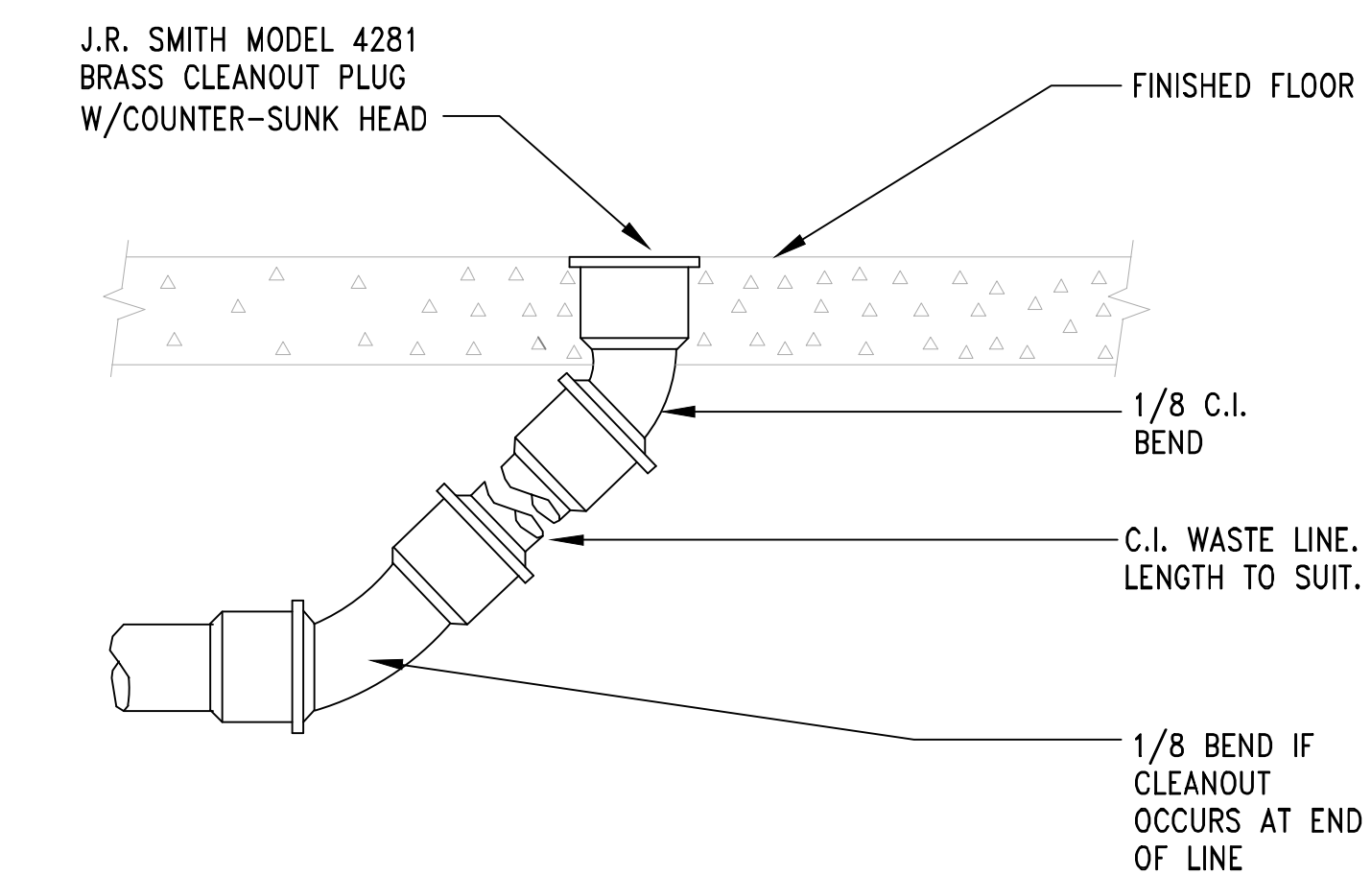
INSTANTANEOUS WATER HEATER DETAIL

SCALE  
NTS 7



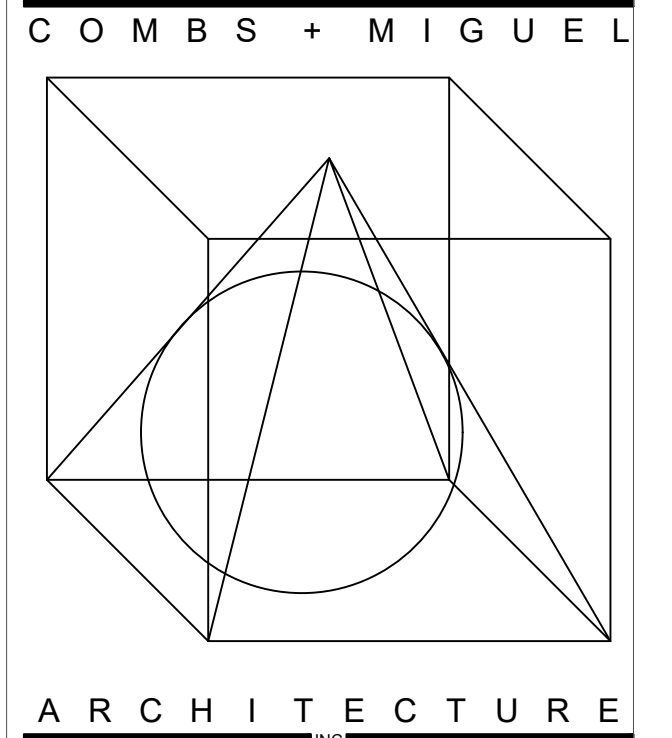
VENT THRU ROOF

SCALE  
NTS 4



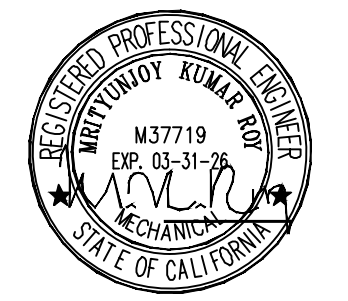
TYPICAL FLOOR CLEANOUT

SCALE  
NTS 1



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PLUMBING DETAILS

PROJECT NO. 24-072

**P-601**