




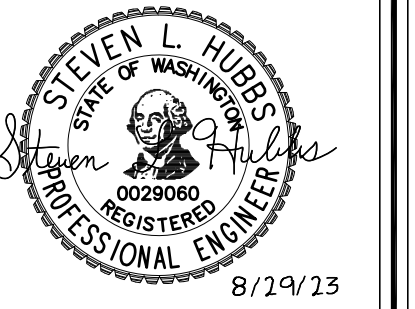
GENERAL NOTES:

- ELECTRICAL REQUIREMENTS ARE NOT LIMITED TO ELECTRICAL DRAWINGS. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, LANDSCAPE AND MECHANICAL DRAWINGS FOR ADDITIONAL ELECTRICAL INFORMATION AND INCLUDE COSTS FOR THIS WORK IN THE BID.
- CONTRACTOR SHALL INCLUDE IN HIS BID LIGHTING CONTROL COMMISSIONING COSTS. CONTRACTOR SHALL PROVIDE THE OWNER A COMPLETE REPORT OF TEST PROCEDURES AND RESULTS INDICATING ALL LIGHTING CONTROLS HAVE BEEN TESTED, ADJUSTED AND OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS AND THE WASHINGTON STATE NONRESIDENTIAL ENERGY CODE, SECTION C408. CONTRACTOR SHALL PROVIDE A SPREAD SHEET INDICATING ROOM NUMBER, TYPE OF CONTROL (OCCUPANCY SENSOR, LOW VOLTAGE, ETC.), VERIFICATION OF PROPER WORKING ORDER, AND ADJUSTMENTS MADE.
- CONTRACTOR SHALL CONCEAL CONDUIT WHEREVER POSSIBLE. CONTRACTOR SHALL SUBMIT TO ARCHITECT FOR REVIEW AND APPROVAL. ALL ROUTINGS OF ANY EXPOSED CONDUIT PRIOR TO ROUGH-IN. NO EXPOSED CONDUIT SHALL BE INSTALLED UNTIL APPROVAL IS PROVIDED IN WRITING FROM THE ARCHITECT. ALL EXPOSED CONDUIT SHALL BE ROUTED IN A NEAT AND WORKMANSHIP LIKE MANNER.
- CONTRACTOR SHALL PROVIDE A HOT-WIRE OF THE SAME CIRCUIT FOR ALL LIGHT FIXTURES WITH BATTERY PACKS, SO THAT THE BATTERY PACK IS BEING CHARGED AT ALL TIMES.
- CONTRACTOR SHALL SEE ARCHITECTURAL DRAWINGS FOR THE FIRE WALL SEPARATIONS. CONTRACTOR SHALL PROVIDE CAULKING, SEAL-OFFS, ETC. AS REQUIRED BY CODE TO RETAIN FIRE WALL SEPARATION RATINGS.
- ALL WALL PENETRATIONS SHALL BE NEATLY CORE-DRILLED, CAULKED AND SEALED TO MAINTAIN FIRE, AND WATERPROOF RATING. PATCH, REPAIR, AND PAINT TO MATCH EXISTING.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 1-(800)-424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR MAINTAINING ALL LOCATE MARKS ONCE THE UTILITIES HAVE BEEN LOCATED.
- CONTRACTOR SHALL PROVIDE TRENCHED 1" C-FIRE ALARM CONDUCTORS AND CONNECT THE POST INDICATOR VALVE TO THE FIRE ALARM SYSTEM FOR MONITORING. SEE CIVIL AND MECHANICAL DRAWINGS FOR LOCATIONS.
- CONDUIT (OR PLENUM RATED CABLE WHERE ALLOWED) AND WIRING IS NOT SHOWN ON THE ELECTRICAL DRAWINGS FOR THE SIGNAL/SYSTEM DEVICES (FIRE ALARM, SECURITY, AND CAMERA) CONTRACTOR SHALL PROVIDE MANUFACTURER'S REQUIRED WIRING IN MINIMUM 3/4" C TO ALL SIGNAL/SYSTEM DEVICES OR PLENUM RATED CABLE WHERE ALLOWED BY CODE.
- CONNECT FIRE/SMOKE DAMPERS SUPPLIED BY MECHANICAL CONTRACTOR AND POWERED BY 120 VAC FROM POWER PANEL THRU A CONTROL RELAY SUCH THAT DAMPERS ARE POWERED OPEN WHEN CONTROL RELAY IS ENERGIZED AND DAMPERS ARE CLOSED WHEN PANEL IS IN ALARM. PROVIDE SMOKE DETECTOR OR DUCT SMOKE DETECTOR WITHIN 5' OF EACH FIRE/SMOKE DAMPER. SEE MECHANICAL PLANS, SCHEDULES AND SPECIFICATIONS FOR FIRE/SMOKE DAMPER LOCATIONS. COORDINATE WITH MECHANICAL CONTRACTOR. CONTRACTOR SHALL PROVIDE 3/4" C-2#12 CU & (1)#12 CU GRD AND CONNECT TO SPARE 20A/1-POLE CIRCUIT BREAKER. CONNECT MAXIMUM OF SIX(6) FIRE/SMOKE DAMPERS PER CIRCUIT.

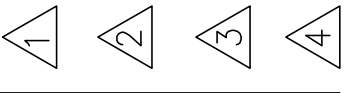
- CONNECT ALL DOOR HOLDERS AND DOOR CLOSERS SUPPLIED WITH DOOR HARDWARE. THESE ITEMS SHALL BE POWERED BY THE FIRE ALARM CONTROL PANEL WITH 24V THRU A CONTROL RELAY SUCH THAT ALL DOORS RELEASE TO CLOSE WHEN PANEL IS IN ALARM. PROVIDE A SMOKE DETECTOR WITH AUXILIARY RELAY ON EACH SIDE OF DOOR. SEE ARCHITECTURAL PLANS, SCHEDULES AND SPECIFICATIONS FOR FIRE DOOR LOCATIONS.
- PROVIDE FIRE ALARM CONDUIT AND WIRE CONNECTION FOR SHUTDOWN OF AIR HANDLING UNIT(S) AND EXHAUST FANS FOR SHUTDOWN ON ALARM AS REQUIRED PER THE UNIFORM MECHANICAL CODE. PROVIDE MONITOR/CONTROL MODULES FOR EXHAUST FANS LOCATED WITHIN 3 FEET OF FAN CONTROLLER, THRU ENERGIZED CONTROL RELAY SUCH THAT THE EXHAUST FANS SHUTDOWN UPON ALARM. SEE MECHANICAL PLANS, SCHEDULES AND SPECIFICATIONS FOR LOCATIONS. COORDINATE WITH MECHANICAL CONTRACTOR.
- FURNISH DUAL CONTACT DUCT SMOKE DETECTOR, INCLUDING SAMPLING TUBE, TO MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL LOCATE AND MOUNT THE DUCT SMOKE DETECTOR ENCLOSURE/SAMPLING TUBE FOR FIRE ALARM SYSTEM SHUTDOWN. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR SAMPLING TUBE LENGTH AND SIZE REQUIRED. ELECTRICAL CONTRACTOR SHALL PROVIDE NECESSARY CONDUIT (OR PLENUM RATED CABLE WHERE ALLOWED), WIRING, REMOTE INDICATORS AND ACCESSORIES TO SHUTDOWN EACH UNIT UPON ACTIVATION OF THAT UNIT'S SMOKE DETECTOR(S) REQUIRED PER THE MECHANICAL CODE. CONNECTIONS SHALL BE HARDWIRED, INDEPENDENT OF ANY CONTROL SYSTEM LOGIC, SO FAILURE OF THE CONTROL SYSTEM OR LOSS OF CONTROL SYSTEM POWER WILL NOT PREVENT THE FIRE ALARM SYSTEM, SHUTDOWN OF THE UNIT. IN ADDITION TO SHUTTING DOWN THE UNIT WITH THE ALARMED SMOKE DETECTOR, ALL EQUIPMENT INTERLOCKED OR SERVED BY THAT UNIT SHALL BE OFF. OTHER UNITS SHALL ALSO SHUT OFF TO AVOID BUILDING PRESSURE DIFFERENTIALS AND SIMILAR UNDESIRABLE EFFECTS. UPON RESET OF ALARMED DEVICE, SYSTEM SHALL AUTOMATICALLY RETURN TO NORMAL. MECHANICAL CONTRACTOR TO PROVIDE TIME DELAY START OF EQUIPMENT TO PREVENT EXCESS LOAD STARTING AT THE SAME TIME. CONTRACTOR SHALL PROVIDE CONDUIT AND WIRE AND CONNECT TO FIRE ALARM CONTROL PANEL. SEE MECHANICAL DRAWINGS, SCHEDULES AND SPECIFICATIONS FOR LOCATIONS.
- CONTRACTOR SHALL PROVIDE CONDUIT, WIRE, AND CONNECT THE EXTERIOR FIRE ALARM BELL FURNISHED BY THE SPRINKLER CONTRACTOR. THE SPRINKLER SYSTEM IS A DESIGN BUILD SYSTEM. COORDINATE FINAL LOCATION WITH THE SPRINKLER CONTRACTOR. FOR 24V SPRINKLER BELLS, CONNECT THE BELL TO THE FIRE ALARM PANEL. FOR 120V SPRINKLER BELLS, CONNECT TO A DEDICATED SPARE 120V CIRCUIT.
- ALL ELECTRICAL WORK SHALL BE PROVIDED PER THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE, WASHINGTON STATE ADMINISTRATIVE CODE, AND CITY OF TACOMA CODES AND AMENDMENTS.

ELECTRICAL SYMBOLS LEGEND

	DETAIL/SECTION IDENTIFICATION: A = DETAIL/SECTION LETTER, B = SHEET NUMBER WHERE DETAIL/SECTION IS DRAWN.	S	LIGHT SWITCH TOGGLE TYPE, SINGLE POLE, SUBSCRIPTS: 3 = THREE WAY, 4 = FOUR WAY, D = DIMMER CONTROL, a, b, c, ETC = NUMBER OF SWITCHES AT THE LOCATION AND SPECIFIC FIXTURES CONTROLLED. MOUNT AT 42 INCHES AFF.
	EQUIPMENT CONNECTION CALLOUT. A,B EQUAL EQUIPMENT IDENTIFICATION ON MECHANICAL EQUIPMENT CONNECTION SCHEDULES. VERIFY EXACT EQUIPMENT REQUIREMENTS ON SHOP DRAWING EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN. DO NO ROUGH-IN FOR EQUIPMENT PRIOR TO REVIEW OF SUBMITTALS. REPORT ANY DIFFERENCES IN REQUIREMENTS TO ENGINEER IN WRITING.	St	DIGITAL 0-12 HOUR TIMER SWITCH. WATTSTOPPER TS-400 OR EQUAL
	CONDUIT CONCEALED. HASH MARKS INDICATE NUMBER OF #12 CONDUCTORS IN CODE SIZE CONDUIT. NO HASH MARKS INDICATES 2-#12 CONDUCTORS PLUS GROUND IN 3/4" CONDUIT. LONG HASH MARKS INDICATES NEUTRAL CONDUCTOR. / INDICATES GROUND CONDUCTOR.	Sy	AUTOMATIC/MANUAL OCCUPANCY SENSOR AND SINGLE POLE TOGGLE SWITCH. WATT STOPPER DW-100 OR EQUAL. SWITCH SHALL BE PROGRAMMED FOR MANUAL ON, AUTOMATIC OFF.
	NON-METALLIC SHEATHED CABLE 12/2 CU WITH GROUND		DUAL TECHNOLOGY AUTOMATIC OCCUPANCY SENSOR DEVICE WITH POWER PACK (WATT STOPPER #DT-300).
	NON-METALLIC SHEATHED CABLE 12/3 CU WITH GROUND		DAYLIGHT PHOTOSENSOR
	FLEXIBLE RACEWAY, PROVIDE GROUND CONDUCTORS PER NEC.		DISCONNECT SWITCH
	A-1,3 ADJACENT TO ARROW INDICATES HOMERUN OF CONDUCTORS IN CONDUIT FOR CIRCUITS 1 AND 3 TO PANEL "A".		FUSED DISCONNECT SWITCH WITH FUSES.
	EXIT LIGHT WITH BATTERY, UNIVERSAL MOUNTING.		MOTOR RATED TOGGLE SWITCH WITH OVERLOAD HEATER(S), SIZE PER NEC AND MANUFACTURERS REQUIREMENTS.
	EMERGENCY FLOODLIGHT WITH BATTERY.		FLUSH MOUNTED DUAL TELEPHONE/DATA OUTLET, MOUNT AT 18" AFF. PROVIDE 4" SQUARE BOX WITH 1" CONDUIT AND PULL STRING TO ACCESSIBLE CEILING SPACE.
	LIGHT FIXTURE, SURFACE MOUNTED OR PENDANT HUNG FROM CEILING.		GROUND PER NEC.
	LIGHT FIXTURE, WITH EMERGENCY BATTERY PACK.		MANUAL FIRE ALARM PULL STATION. WALL MOUNT AT 42 INCHES AFF.
	LIGHT FIXTURE, WALL MOUNTED.		FIRE ALARM HORN/ADA STROBE. WALL MOUNT AT 80 INCHES AFF. SUBSCRIPT INDICATES CANDELA LEVEL.
	LED STRIP LIGHT FIXTURE. SURFACE MOUNTED OR CHAIN HUNG FROM CEILING.		FIRE ALARM MINI ADA STROBE, WALL MOUNT AT 80 INCHES AFF. SUBSCRIPT INDICATES CANDELA LEVEL.
	DOWNLIGHT FIXTURE.		SMOKE DETECTOR
	WALL MOUNT LIGHT FIXTURE.		HEAT DETECTOR
	BOLLARD LIGHT.		WATER SPRINKLER SYSTEM FLOW SWITCH.
	JUNCTION BOX.		WATER SPRINKLER SYSTEM TAMPER SWITCH.
A1	LIGHT FIXTURE TYPE. A1 = SPECIFIC LIGHTING FIXTURE REFERENCED ON LIGHTING FIXTURE SCHEDULE.		AVAILABLE FAULT CURRENT
	POWER PANEL		TRANSIENT VOLTAGE SURGE SUPPRESSION. TPS3-X-11-15-D2, SIEMENS OR EQUAL. "X" = VOLTAGE/ PHASE (VARIES), SEE POWER RISER DIAGRAM AND/OR PANEL SCHEDULES FOR VOLTAGE AND PHASE REQUIREMENTS.
	DUPLEX RECEPTACLE 20A, 125 VOLT WALL MOUNTED AT 18 INCHES AFF. G = GROUND FAULT INTERRUPTING, T = TAMPERPROOF.	(E)	EXISTING
	DUPLEX RECEPTACLE 20A, 125 VOLT WALL MOUNTED HORIZONTALLY 2" ABOVE COUNTERTOP BACKSPASH TO THE BOTTOM OF THE RECEPTACLE COVERPLATE.	WP	WEATHERPROOF
	FOURPLEX RECEPTACLE 20A, 125 VOLT, WALL MOUNTED AT 18 INCHES AFF.		
	SPECIAL RECEPTACLE. AMPERAGE AND VOLTAGE AS SHOWN.		
	EQUIPMENT CONNECTION. PROVIDE PER NEC AND MANUFACTURERS REQUIREMENTS AND/OR RECOMMENDATIONS.		
	120V (WITH BATTERY BACKUP) COMBINATION SMOKE (IONIZATION) AND CARBON MONOXIDE DETECTOR WITH INTEGRAL SOUNDER BASE, LED STROBE AND SILENCING SWITCH.		
	120V (WITH BATTERY BACKUP) SMOKE (PHOTOELECTRIC) DETECTOR WITH INTEGRAL SOUNDER BASE AND SILENCING SWITCH.		
	UNIT COMMUNICATIONS SMART BOX		
	ELECTRIC WALL HEATER. SUBSCRIPT "XX" INDICATES WATTAGE. SEE MECHANICAL PLANS FOR MANUFACTURER/MODEL INFORMATION.		
	ELECTRIC COVE HEATER. SUBSCRIPT "XX" INDICATES WATTAGE. SEE MECHANICAL PLANS FOR MANUFACTURER/MODEL INFORMATION.		
	CABLE TV CONNECTION.		



REVISIONS THIS SHEET



St. Helens Mixed Use
Tacoma, Washington
ELECTRICAL SYMBOLS LEGEND/GENERAL NOTES

I N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

PERMIT RESUBMITTAL

PROJECT NO. : 22-033
DRAWN BY : JAE
ISSUE DATE : 8-29-2023
LATEST REV. :
THIS SET : -

"Note for Construction"
Subject to Jurisdictional
Review

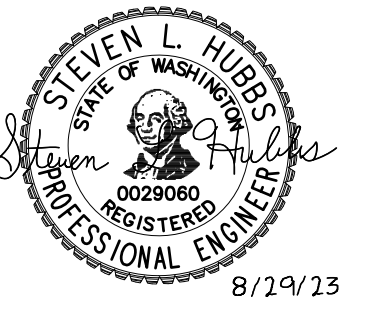


LIGHTING FIXTURE SCHEDULE

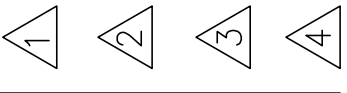
TYPE	MANUFACTURER	LAMPS	WATTS	MOUNTING
A1	ILP LIGHTING WTZ4-5L-U-30-RAFL-MWUSBD OR EQUAL	LED	38	SURFACE
A1X	SAME AS TYPE A1 WITH EMERGENCY BATTERY PACK			
A2	METALUX 4SWLED-32SL-LW-UNV-L835- CD-1-SVPD2 OR EQUAL	LED	28	WALL
A2X	SAME AS TYPE A2 WITH EMERGENCY BATTERY PACK			
A3	ILP LIGHTING WTZ4-4L-U-30-RAFL OR EQUAL	LED	29	SURFACE
A4	METALUX 4SNLED-LD5-33SL-LW-UNV- L830-CD-1 OR EQUAL	LED	28	SURFACE
A5	PINNACLE EX4D-A-N-830-12'-S-U-FSD- 1-O-S OR EQUAL	LED	60	SURFACE
A6	PINNACLE EX4D-A-N-830-8'-S-U-FSD- 1-O-S OR EQUAL	LED	40	SURFACE
A7	OXYGEN 3-524-24 OR EQUAL	LED	24	WALL
B1	LITON LCMPD7R-W-T30 OR EQUAL	LED	14	SURFACE
B1X	SAME AS TYPE B1 WITH EMERGENCY BATTERY PACK			
B2	DMF LIGHTING DRDH-N-JD-120-DRD2M-12-9-30- GA-DRD2T-R-JD-S-WH OR EQUAL	LED	14	RECESSED
B3	OXYGEN 3-541-24 OR EQUAL	LED	12	WALL
E1	PERFORMANCE IN LIGHTING SH2-27-AM-3K-120-NA OR EQUAL	LED	27	WALL
E1X	SAME AS TYPE E1 WITH EMERGENCY BATTERY PACK			
E2	LITON LCMPD7R-B-T30 OR EQUAL	LED	14	SURFACE
E2X	SAME AS TYPE E2 WITH EMERGENCY BATTERY PACK			
E3	LUMINIS SN805B-L1L8-K30-H24-120V- BKT-PH OR EQUAL	LED	19	BOLLARD
PL	ILP LIGHTING WTZ4-4L-U-30-RAFL OR EQUAL		29	SURFACE

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	LAMPS	WATTS	MOUNTING
U1	LITON LCMPD5R-W-T30 OR EQUAL	LED	11	SURFACE
U2	OXYGEN 3-537-24 OR EQUAL	LED	14	WALL
U3	OXYGEN 3-689-24 OR EQUAL	LED	24	SURFACE
U4	OXYGEN 3-620-24 OR EQUAL	LED	24	SURFACE
U5	OXYGEN 3-722-15 OR EQUAL	LED	12	WALL
U6	OXYGEN 3-68-15 OR EQUAL	LED	7	PENDANT
X1	EMERGI-LITE ELXC-LPG OR EQUAL	INCLUDED	3	UNIVERSAL
X2	EMERGI-LITE ELXN400-GN OR EQUAL	INCLUDED	3	UNIVERSAL
X3	SAME AS X2 WITH DUAL FACE	INCLUDED	3	UNIVERSAL
X4	EMERGI-LITE EL-2-LED OR EQUAL	LED	3	WALL
X5	EMERGI-LITE BB-SVX24N-1-G-4X OR EQUAL	LED	3	WALL



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St. Helens Mixed Use
Tacoma, Washington
LIGHT FIXTURE SCHEDULE

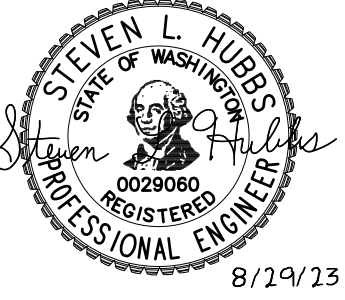
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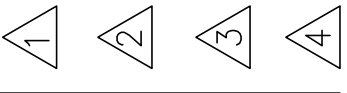
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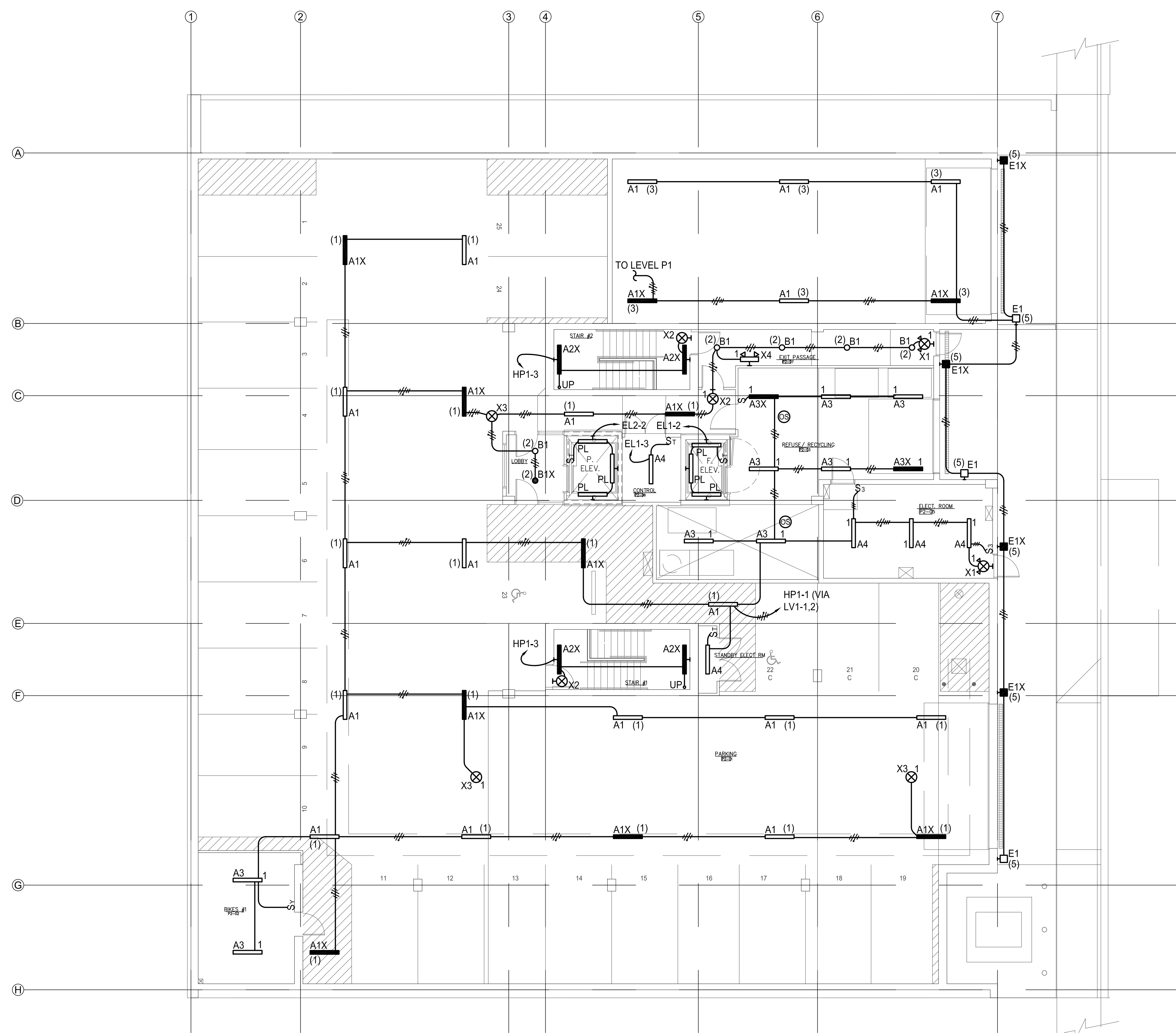


St. Helens Mixed Use
Tacoma, Washington
LEVEL P2 LIGHTING PLAN
1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

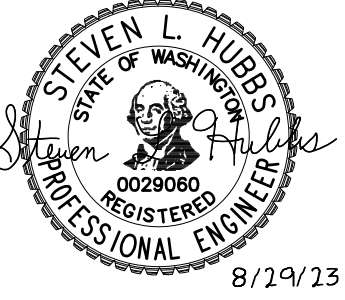
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DRAWN BY : JAE
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THIS SET : -

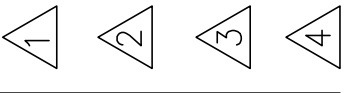
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LEVEL P2 LIGHTING PLAN
SCALE: 1/8"=1'-0"



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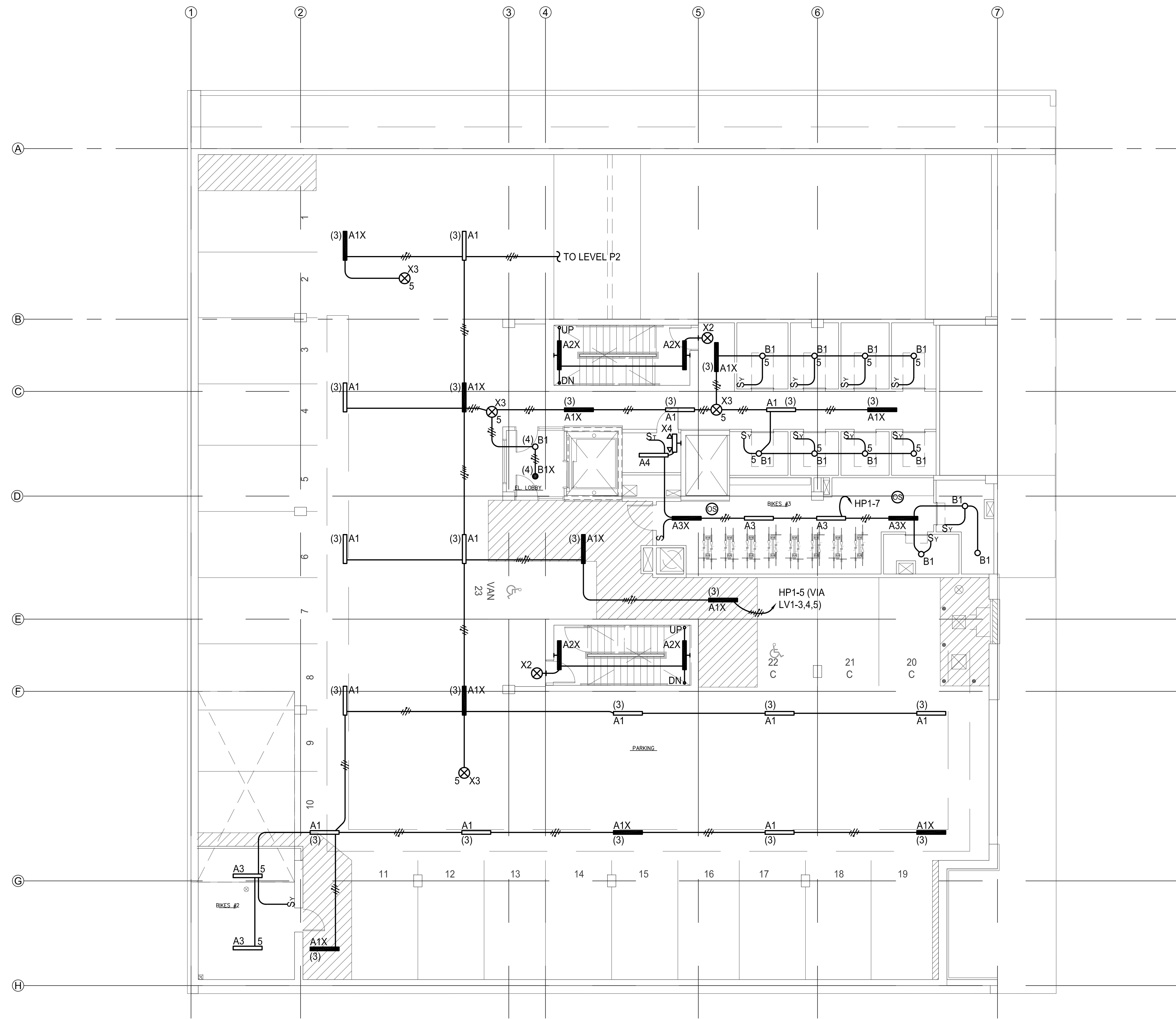
St. Helens Mixed Use
 Tacoma, Washington
LEVEL P1 LIGHTING PLAN

1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

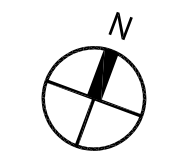
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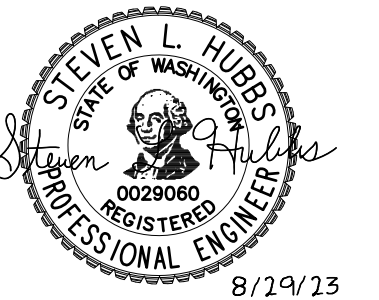
PROJECT NO. : 22-033
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LEVEL P1 LIGHTING PLAN
 SCALE: 1/8"=1'-0"



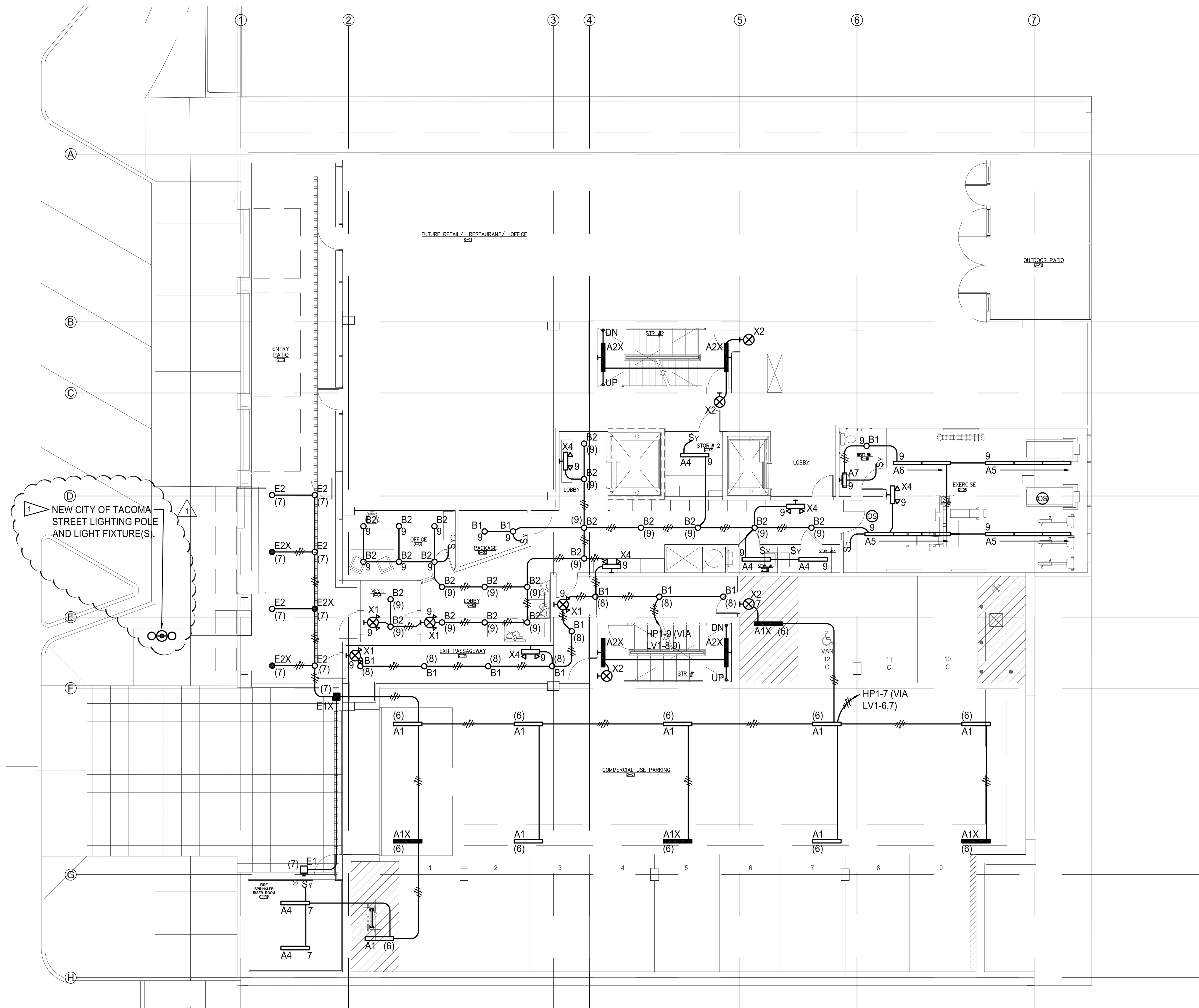
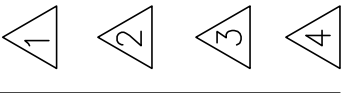


ELECTRICAL NOTES:

1 CITY OF TACOMA, DUAL HEAD, STREET LIGHT TO MATCH EXISTING STREET LIGHTING ALONG ST. HELENS AVE. CONTRACTOR SHALL PROVIDE 2" C-2#8 CU & (1)#10 CU GRD AND CONNECT TO EXISTING ST. HELENS STREET LIGHTING CIRCUIT. NEAREST EXISTING STREET LIGHT IS ON WEST SIDE OF ST. HELENS AVE FROM NEW STREET LIGHT. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF EXISTING STREET LIGHT FOR CONNECTION. STREET LIGHT POLE, LIGHT FIXTURE(S) CONCRETE BASE AND INSTALLATION SHALL BE PER CURRENT CITY OF TACOMA STREET LIGHTING STANDARDS. CONTRACTOR SHALL CONTACT CITY OF TACOMA FOR CURRENT STREET LIGHTING STANDARDS PRIOR TO START OF WORK.

REVISIONS THIS SHEET

PERMIT COMMENTS 8-29-23



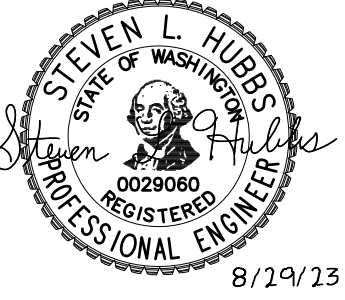
GROUND FLOOR LIGHTING PLAN
SCALE: 1/8"=1'-0"

St. Helens Mixed Use
Tacoma, Washington
GROUND FLOOR LIGHTING PLAN
1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

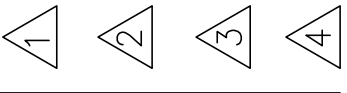
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PROJECT NO. : 22-033
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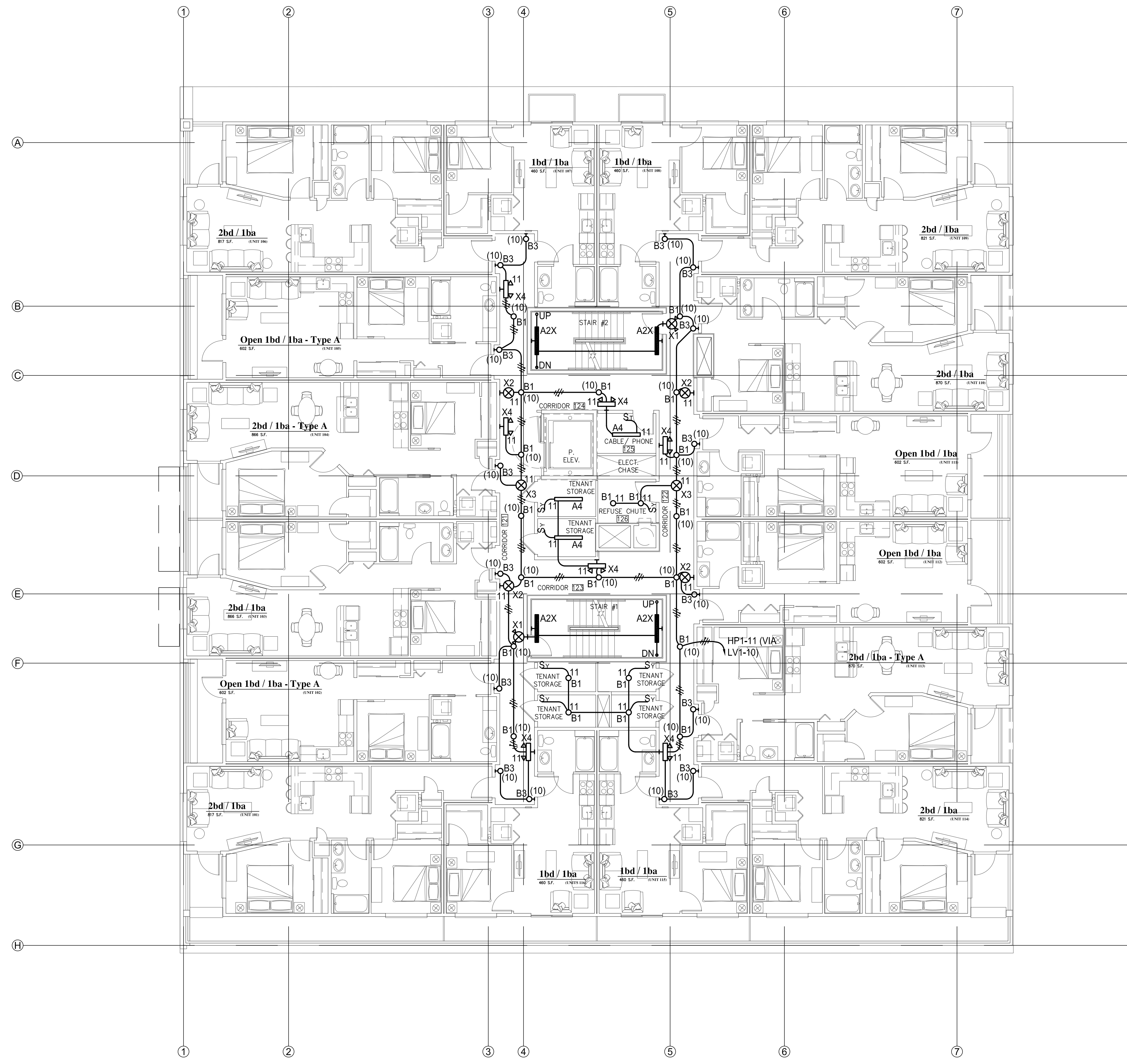
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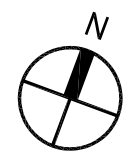
St. Helens Mixed Use
Tacoma, Washington
FIRST FLOOR LIGHTING PLAN
1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

PERMIT RESUBMITTAL
PROJECT NO. : 22-033
DRAWN BY : JAE
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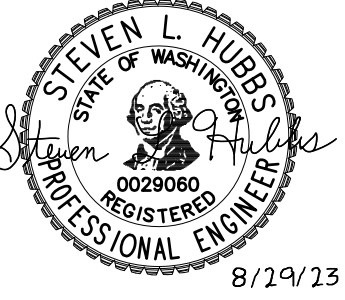
FIRST FLOOR LIGHTING PLAN
SCALE: 1/8"=1'-0"



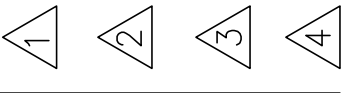
CROSS ENGINEERS, INC
923 MLK Jr. Way
Tacoma, WA 98405
info@crossengineers.com
Phone: (253) 759-0118
Job Number: 22-033

Casey + DeChant Architects, LLC Architecture And Planning

E2.3



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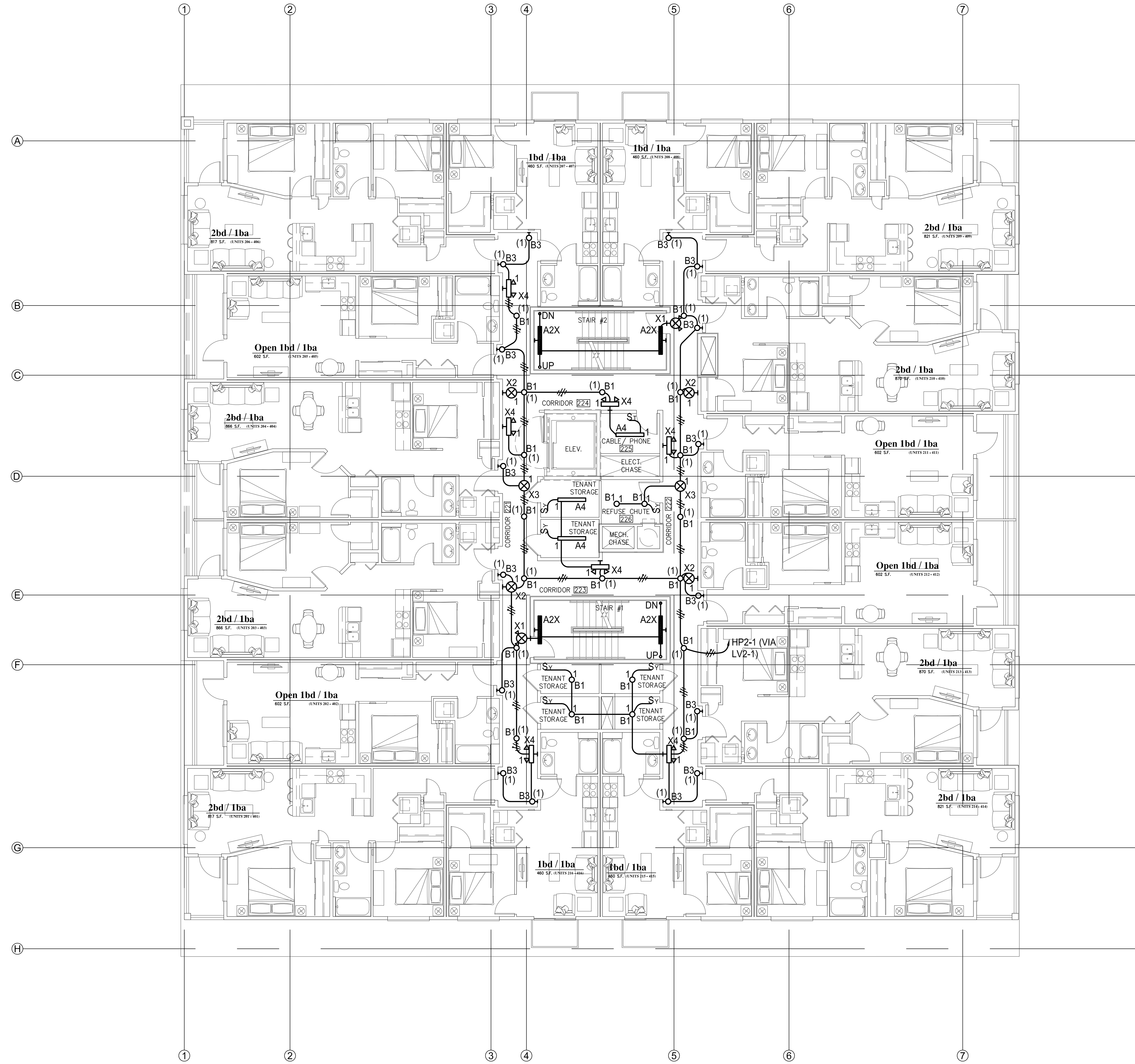
St. Helens Mixed Use
 Tacoma, Washington
SECOND FLOOR LIGHTING PLAN

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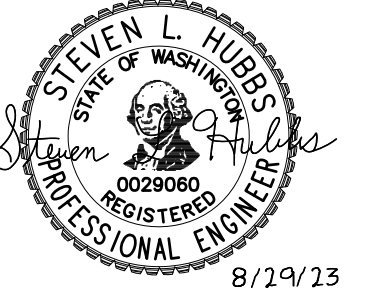
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PROJECT NO. : 22-033
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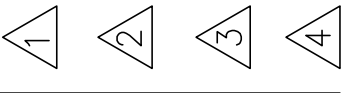
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SECOND FLOOR LIGHTING PLAN
 SCALE: 1/8"=1'-0"



REVISIONS THIS SHEET

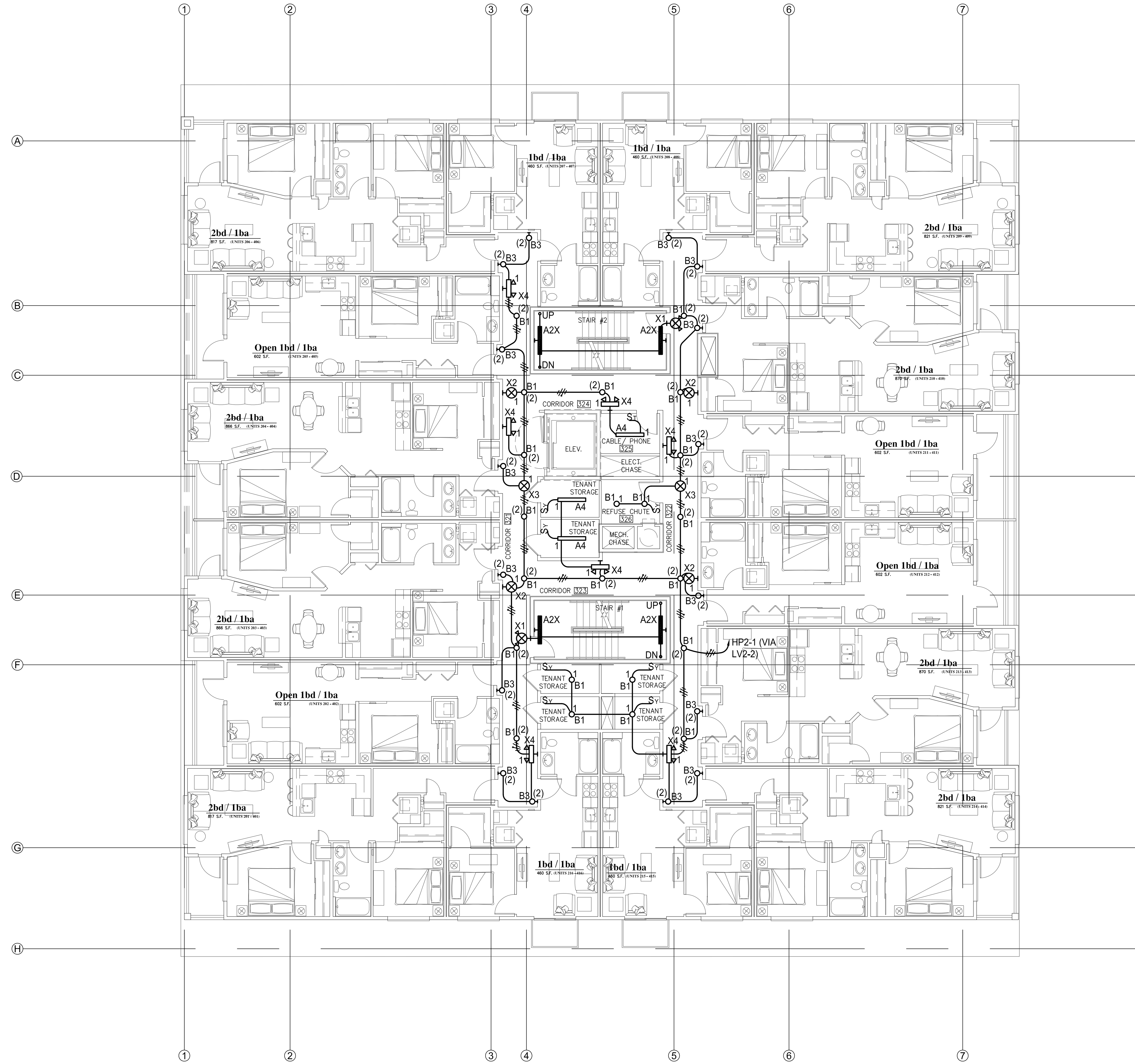


St. Helens Mixed Use
 Tacoma, Washington
THIRD FLOOR LIGHTING PLAN
 1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

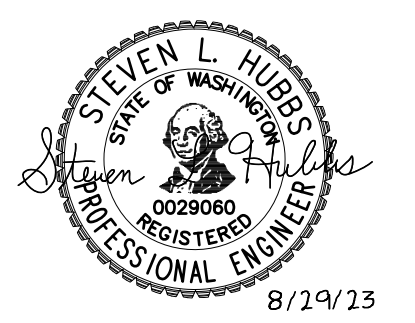
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PROJECT NO. : 22-033
 DRAWN BY : JAE
 ISSUE DATE : 8-29-2023
 LATEST REV. :
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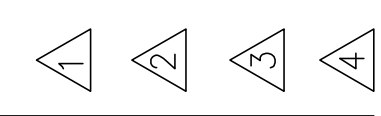
"Note for Construction"
 Subject to Jurisdictional
 Review



THIRD FLOOR LIGHTING PLAN
 SCALE: 1/8"=1'-0"



REVISIONS THIS SHEET



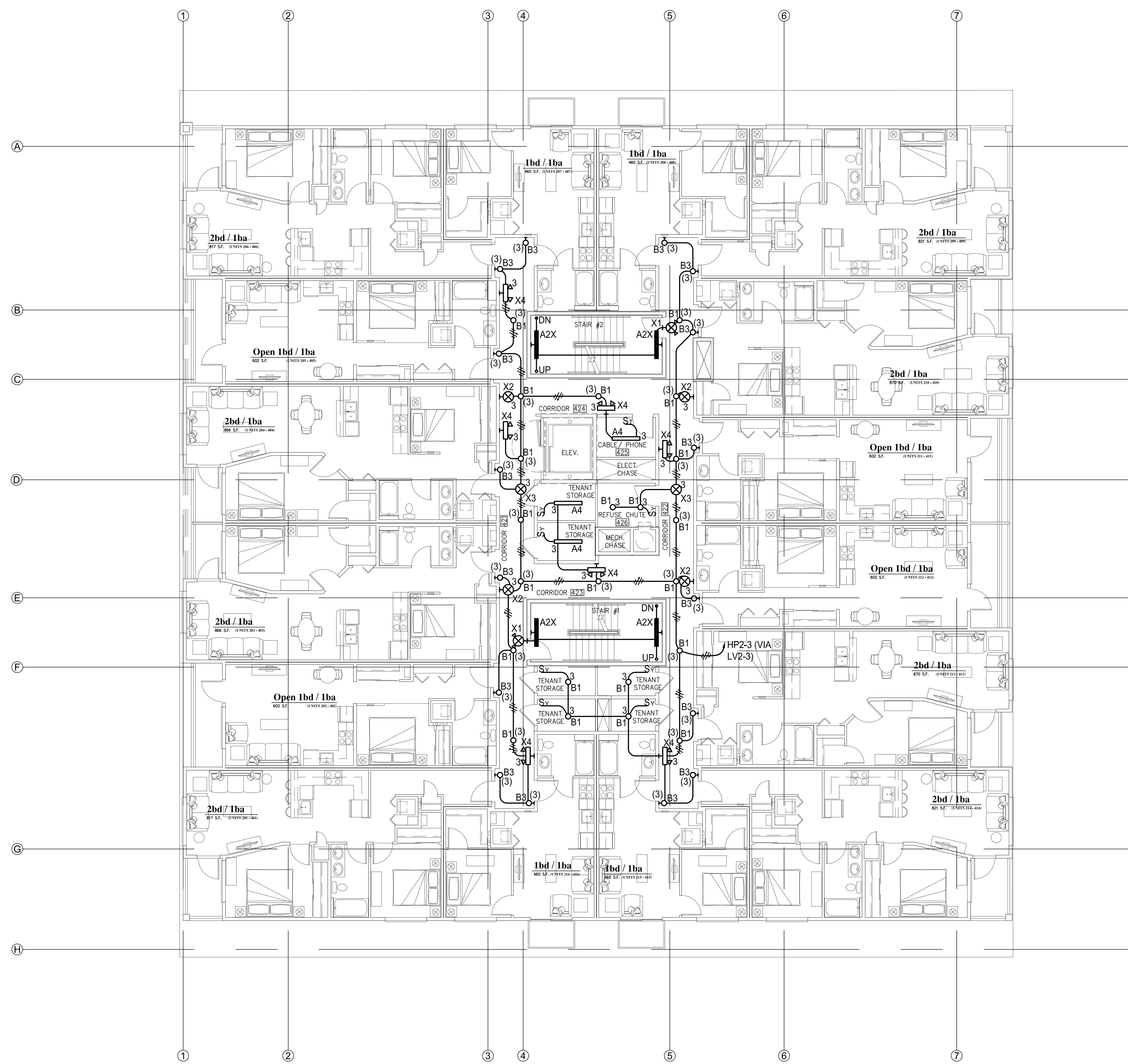
St. Helens Mixed Use
 Tacoma, Washington
FOURTH FLOOR LIGHTING PLAN

1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

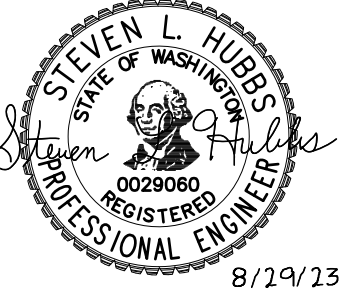
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PROJECT NO. : 22-033
 DRAWN BY : JAE
 ISSUE DATE : 8-29-2023
 LATEST REV. :
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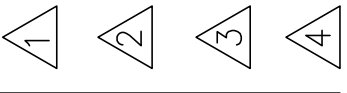
"Note for Construction"
 Subject to Jurisdictional
 Review



FOURTH FLOOR LIGHTING PLAN
 SCALE: 1/8"=1'-0"



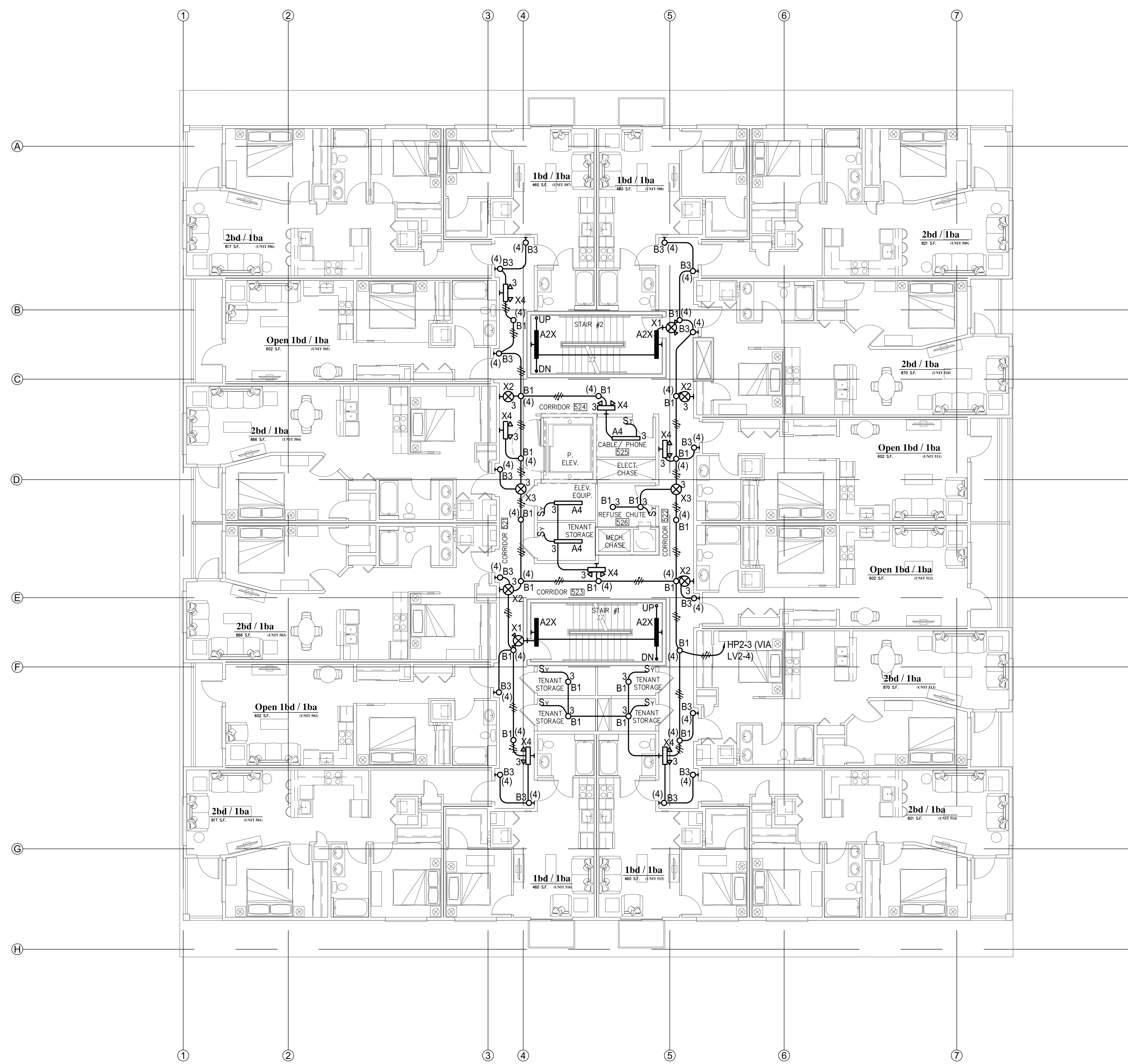
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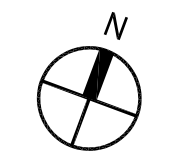
St. Helens Mixed Use
Tacoma, Washington
FIFTH FLOOR LIGHTING PLAN
1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

PERMIT RESUBMITTAL
PROJECT NO. : 22-033
DRAWN BY : JAE
ISSUE DATE : 8-29-2023
LATEST REV. :
THIS SET : -

"Note for Construction"
Subject to Jurisdictional
Review



FIFTH FLOOR LIGHTING PLAN
SCALE: 1/8"=1'-0"



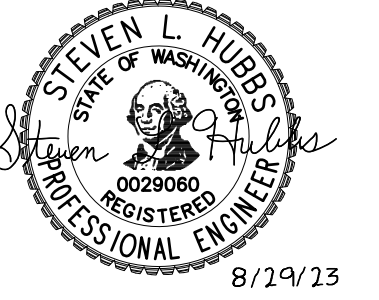
CROSS ENGINEERS, INC
923 MLK Jr. Way
Tacoma, WA 98405
info@crossengineers.com
Phone: (253) 759-0118
Job Number: 22-033

Casey + DeChant Architects, LLC Architecture And Planning

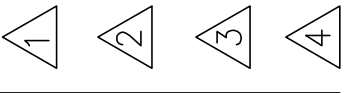
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PLOT DATE: Dec 18, 2023 - 1:10pm

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REVISIONS THIS SHEET



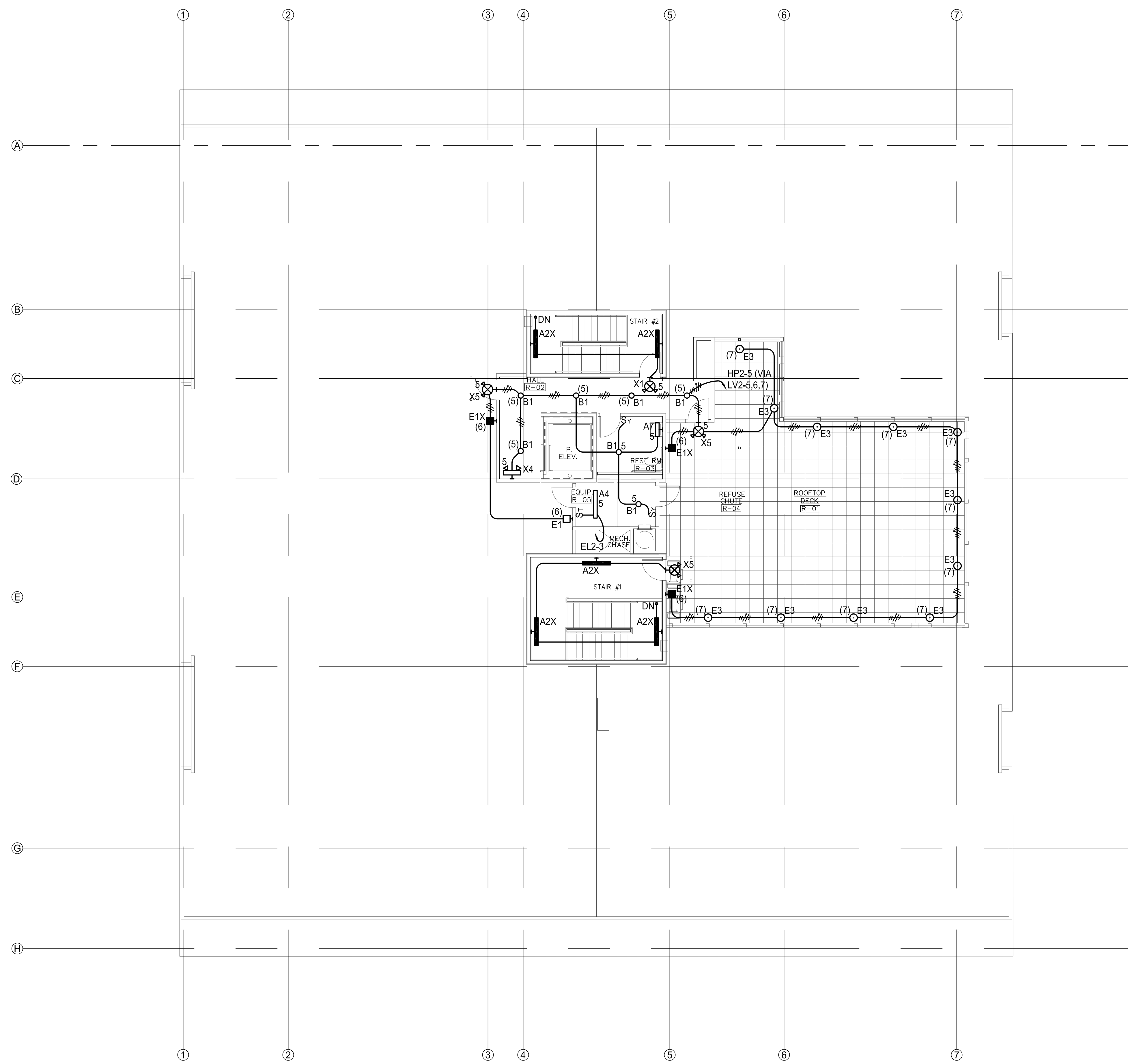
St. Helens Mixed Use
 Tacoma, Washington
ROOF LIGHTING PLAN

1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

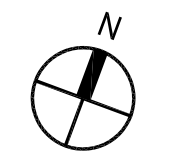
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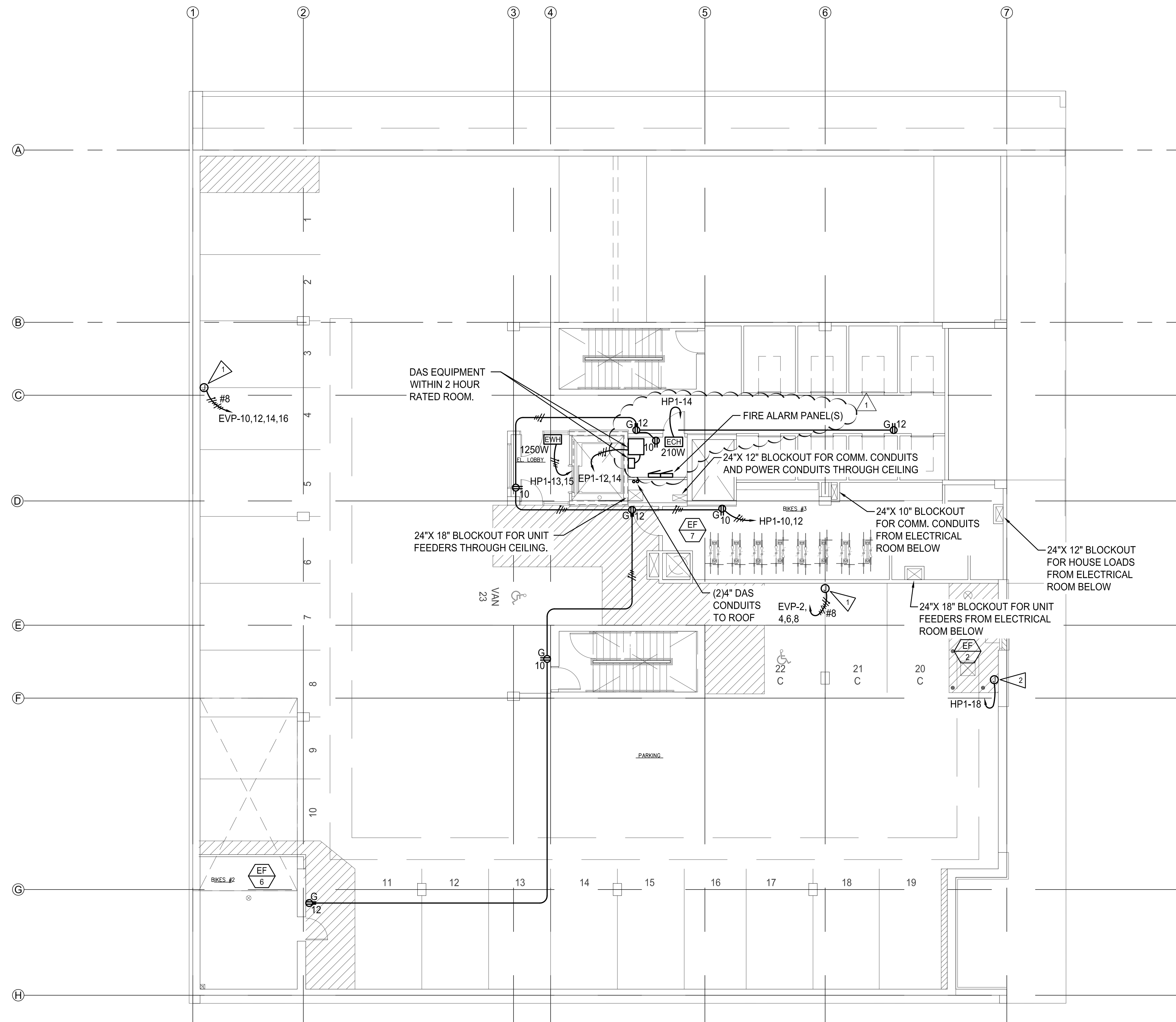
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DRAWN BY :	JAE
ISSUE DATE :	8-29-2023
LATEST REV. :	A
THIS SET :	-

"Note for Construction"
Subject to Jurisdictional
Review

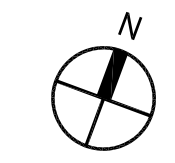


ROOF LIGHTING PLAN
SCALE: 1/8"=1'-0"





LEVEL P1 POWER/SIGNAL PLAN
SCALE: 1/8"=1'-0"



- ELECTRICAL NOTES:**
- 1 DUAL HEAD, LEVEL 2, 40A, EV CHARGER, WALL MOUNTED.
 - 2 GAS MONITORING CONTROL PANEL CONNECTION. FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.

- GENERAL NOTES:**
- 1. PROVIDE SEISMIC CERTIFICATION COMPLIANCE FOR ATTACHMENT OF DAS EQUIPMENT AND FIRE ALARM EQUIPMENT PER WASHINGTON STATE BUILDING CODE 1705.13.3, SEISMIC CATEGORY D.

REVISIONS THIS SHEET
PERMIT COMMENTS 8-29-23



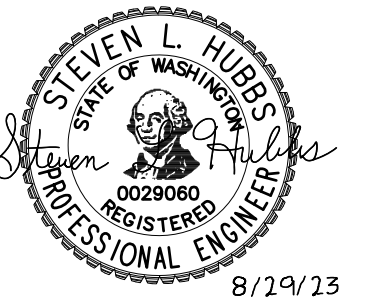
St. Helens Mixed Use
Tacoma, Washington
LEVEL P1 POWER/SIGNAL PLAN
1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

PERMIT RESUBMITTAL

PROJECT NO. : 22-033
DRAWN BY : JAE
ISSUE DATE : 8-29-2023
LATEST REV. :
THIS SET :

"Note for Construction"
Subject to Jurisdictional Review

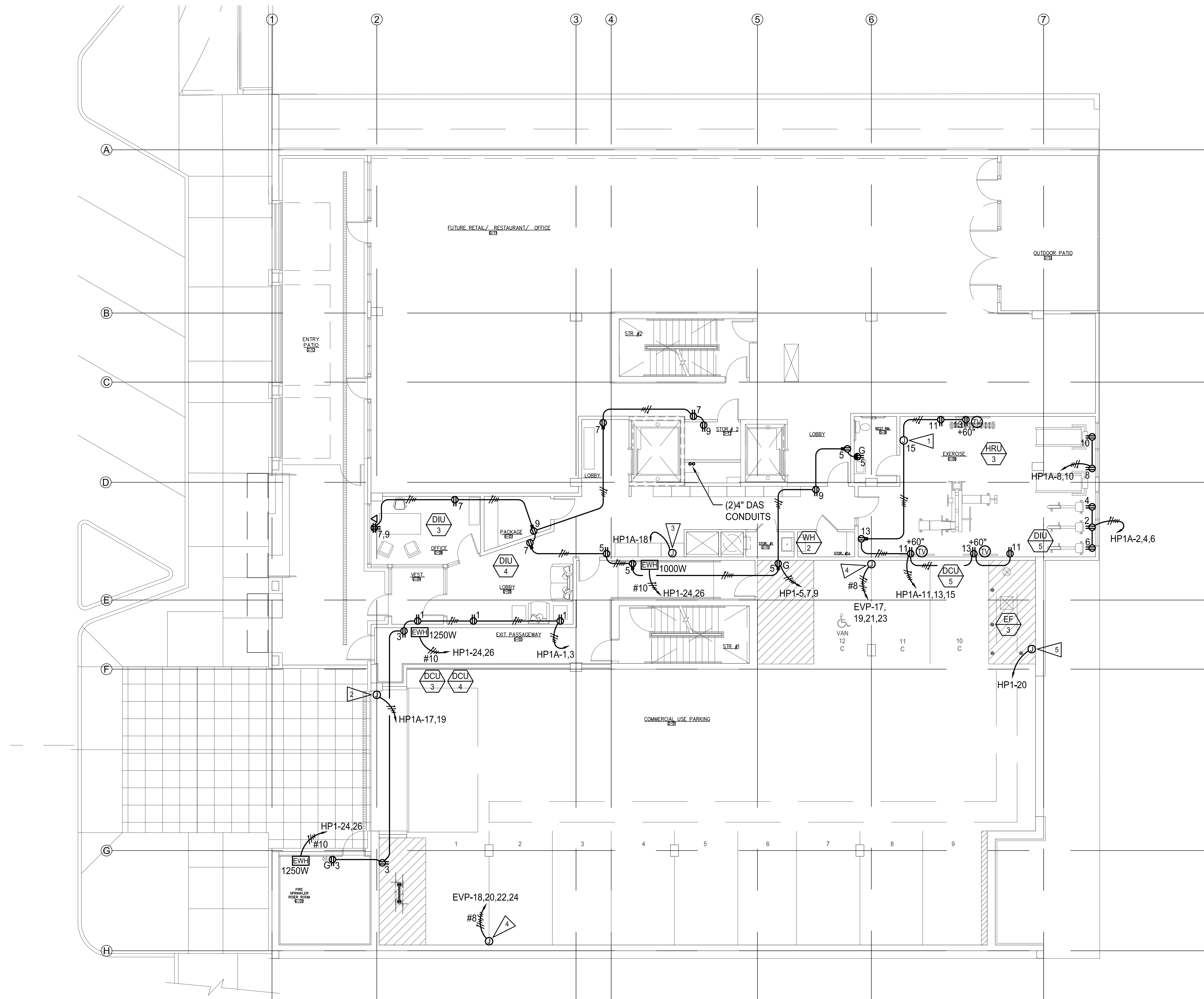
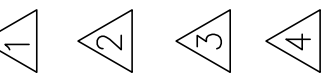




ELECTRICAL NOTES:

- 1 DRINKING FOUNTAIN CONNECTION.
- 2 ROLL-UP DOOR CONNECTION.
- 3 PACKAGE LOCKER CONNECTION. PROVIDE ADDITIONAL DATA CONNECTION AT LOCKERS.
- 4 DUAL HEAD, LEVEL 2, 40A, EV CHARGER, WALL MOUNTED.
- 5 GAS MONITORING CONTROL PANEL CONNECTION. FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.

REVISIONS THIS SHEET



GROUND FLOOR POWER/SIGNAL PLAN
SCALE: 1/8"=1'-0"



PERMIT RESUBMITTAL

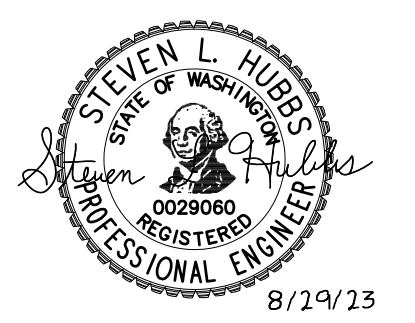
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 LATEST REV. :
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St. Helens Mixed Use
 Tacoma, Washington
GROUND FLOOR POWER/SIGNAL PLAN

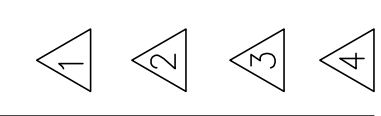
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"Note for Construction"
Subject to Jurisdictional
Review





REVISIONS THIS SHEET



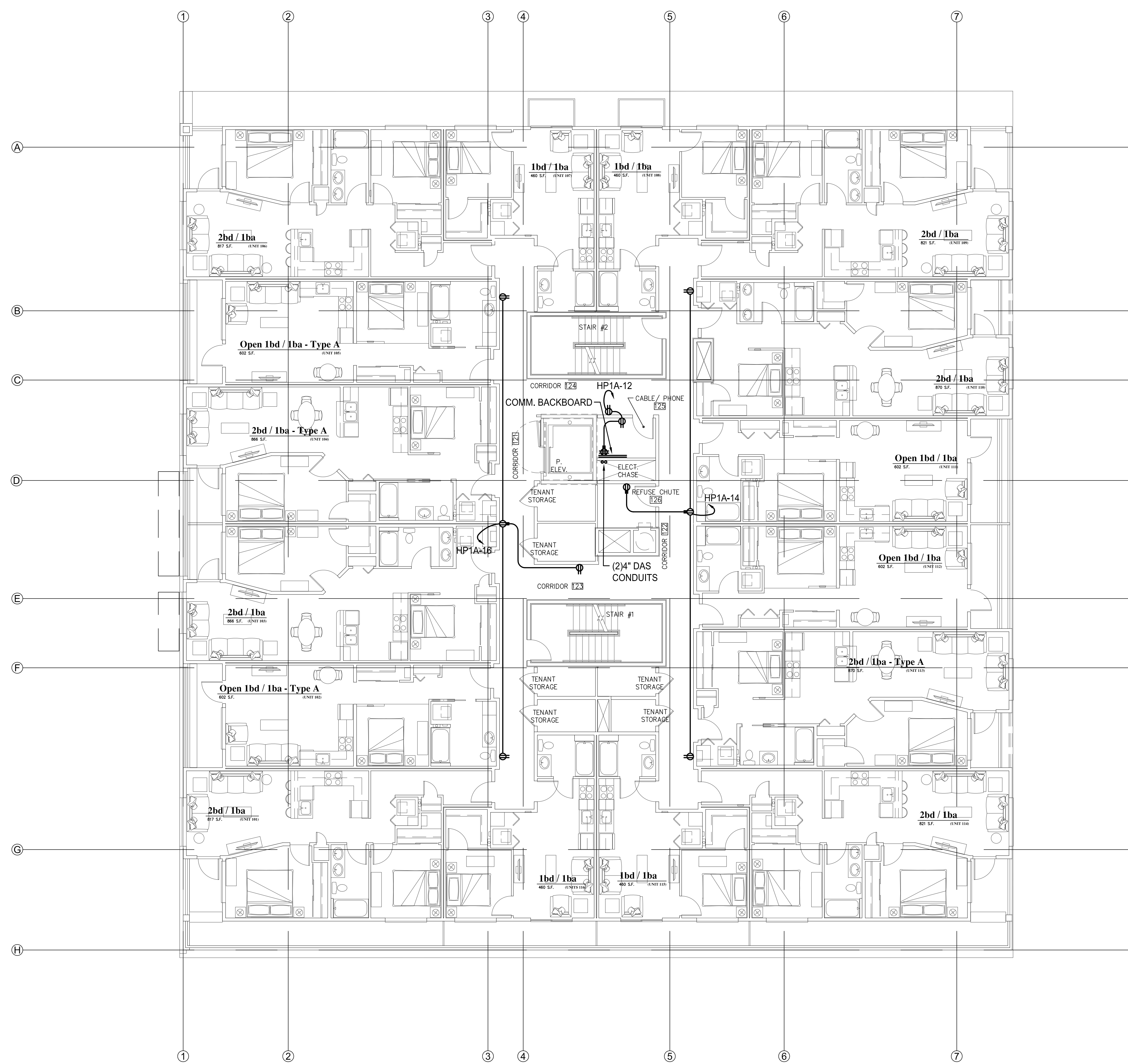
St. Helens Mixed Use
 Tacoma, Washington
FIRST FLOOR POWER/SIGNAL PLAN

1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

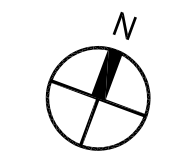
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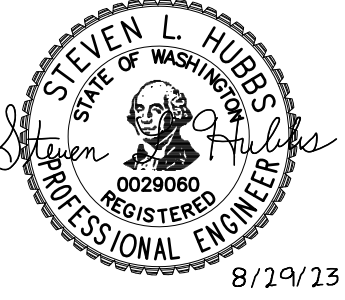
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 LATEST REV. :
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"Note for Construction" Subject to Jurisdictional Review

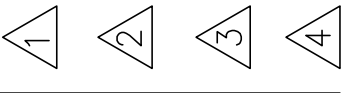


FIRST FLOOR POWER/SIGNAL PLAN
 SCALE: 1/8"=1'-0"





REVISIONS THIS SHEET



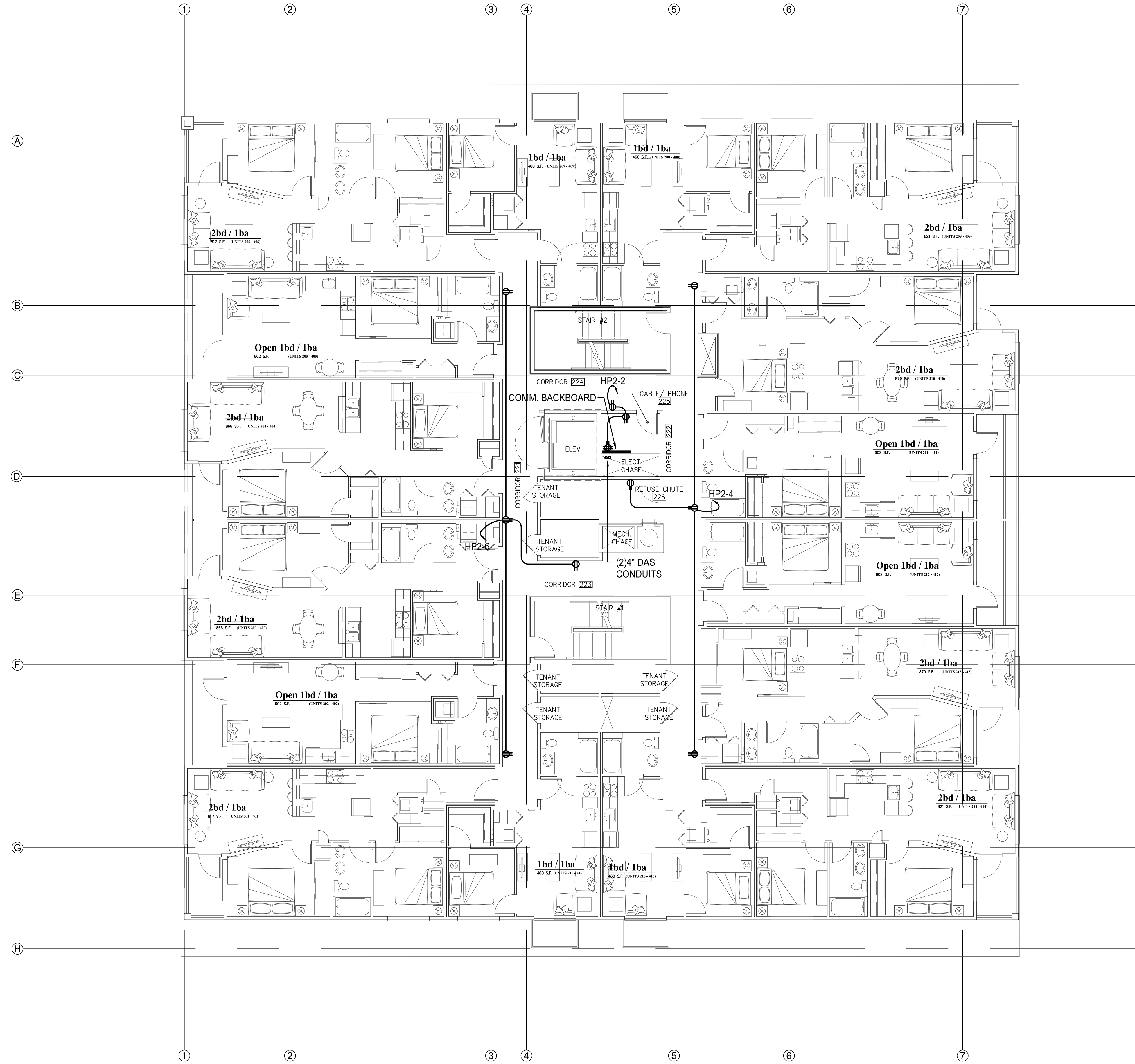
St. Helens Mixed Use
 Tacoma, Washington
SECOND FLOOR POWER/SIGNAL PLAN

1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

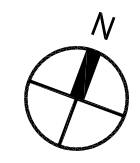
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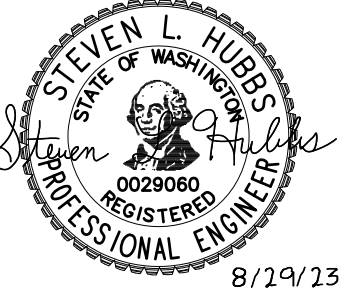
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 ISSUE DATE : 8-29-2023
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"Note for Construction"
 Subject to Jurisdictional
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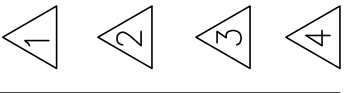


SECOND FLOOR POWER/SIGNAL PLAN
 SCALE: 1/8"=1'-0"





REVISIONS THIS SHEET



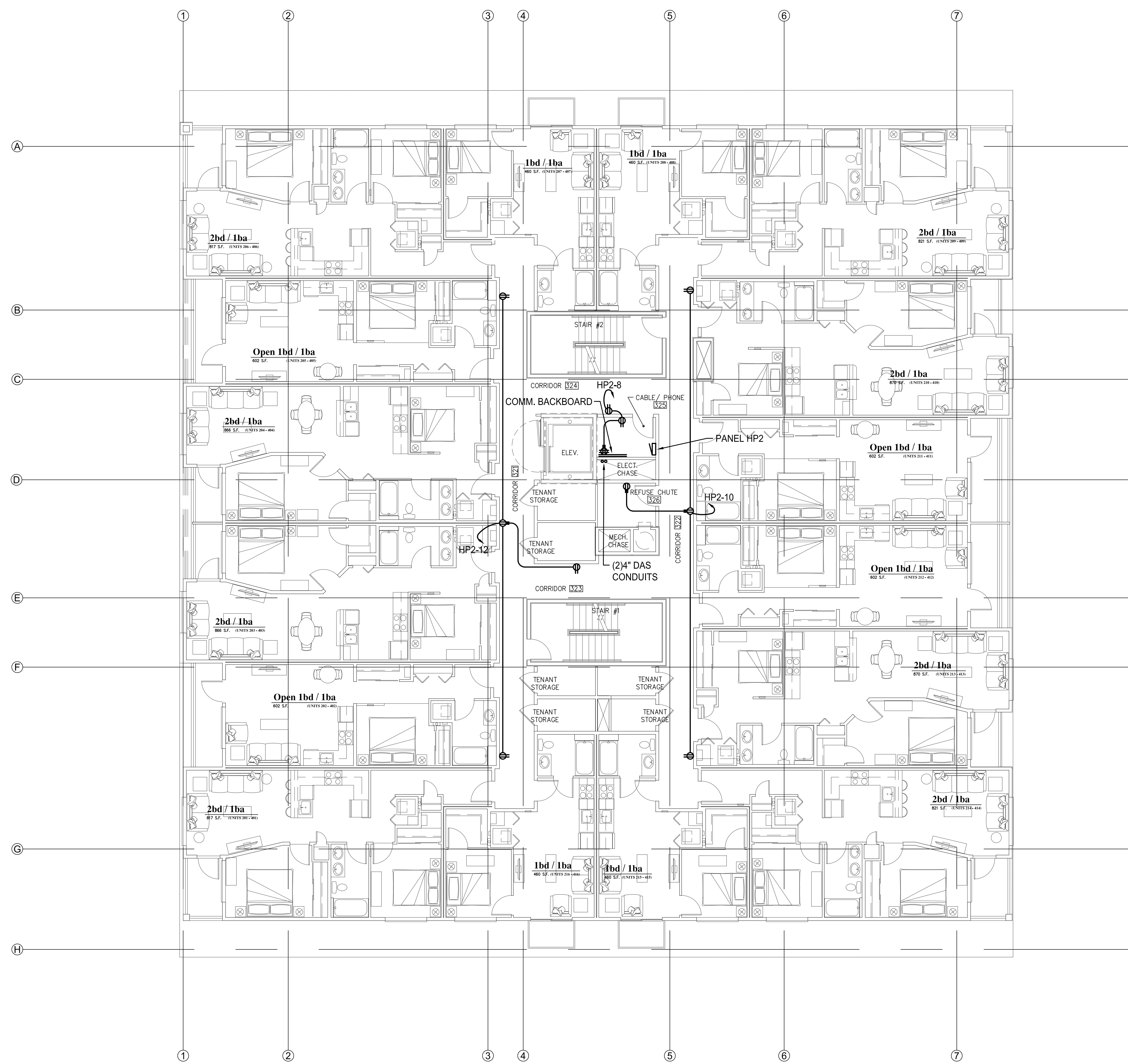
St. Helens Mixed Use
 Tacoma, Washington
THIRD FLOOR POWER/SIGNAL PLAN

1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

PERMIT RESUBMITTAL

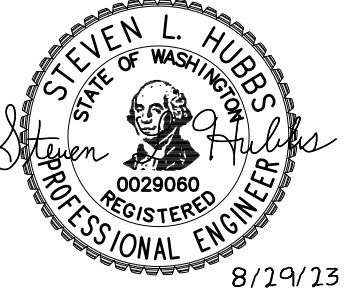
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"Note for Construction"
 Subject to Jurisdictional
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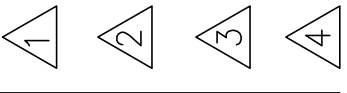


THIRD FLOOR POWER/SIGNAL PLAN
 SCALE: 1/8"=1'-0"





REVISIONS THIS SHEET



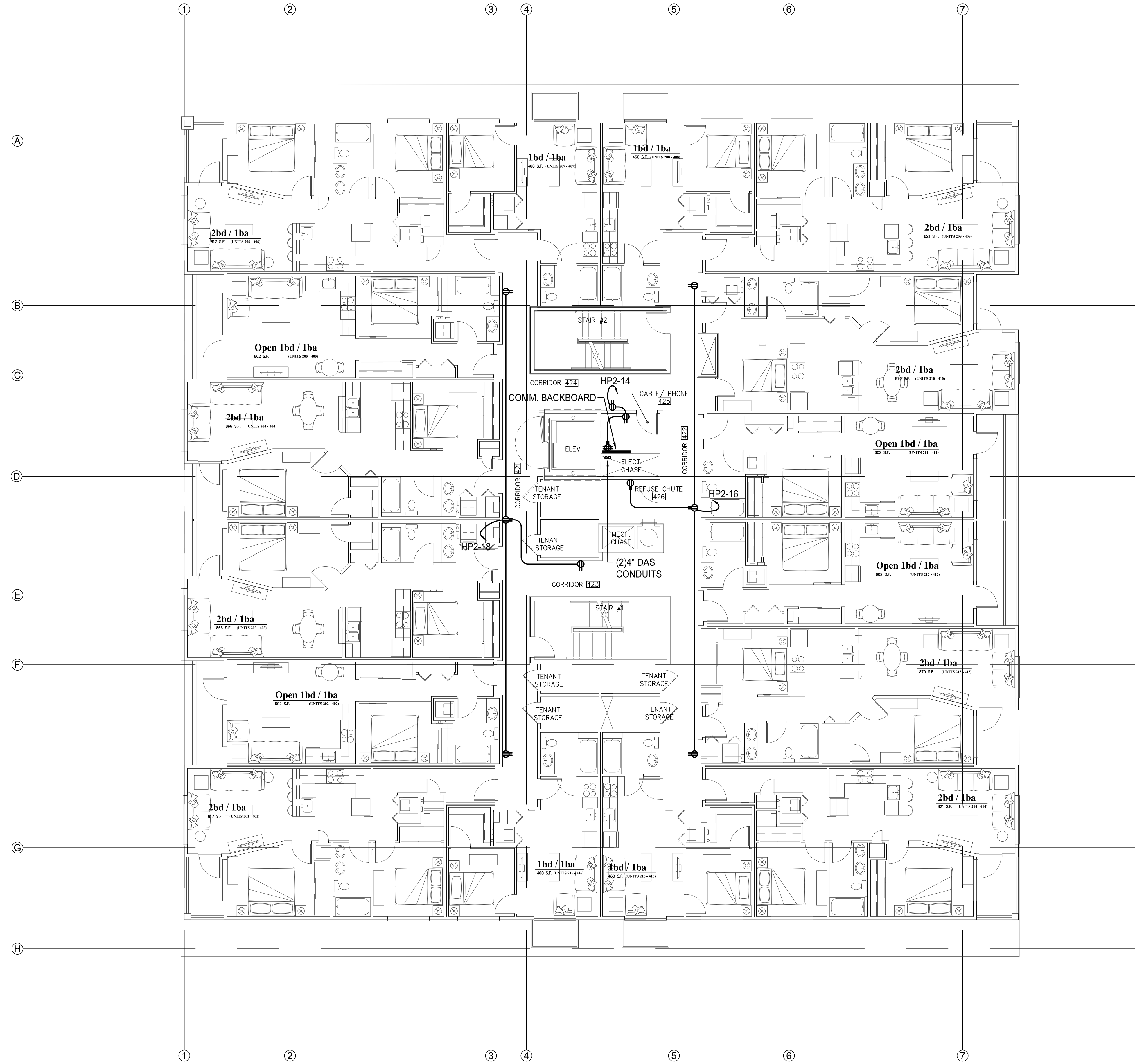
St. Helens Mixed Use
 Tacoma, Washington
FOURTH FLOOR POWER/SIGNAL PLAN

1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

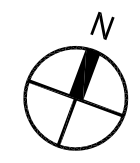
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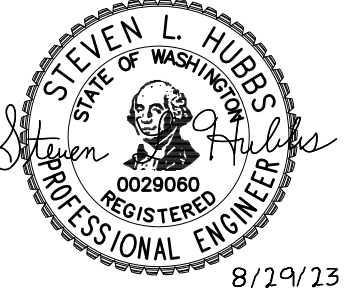
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 ISSUE DATE : 8-29-2023
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"Note for Construction"
 Subject to Jurisdictional
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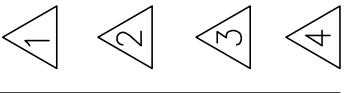


FOURTH FLOOR POWER/SIGNAL PLAN
 SCALE: 1/8"=1'-0"





REVISIONS THIS SHEET



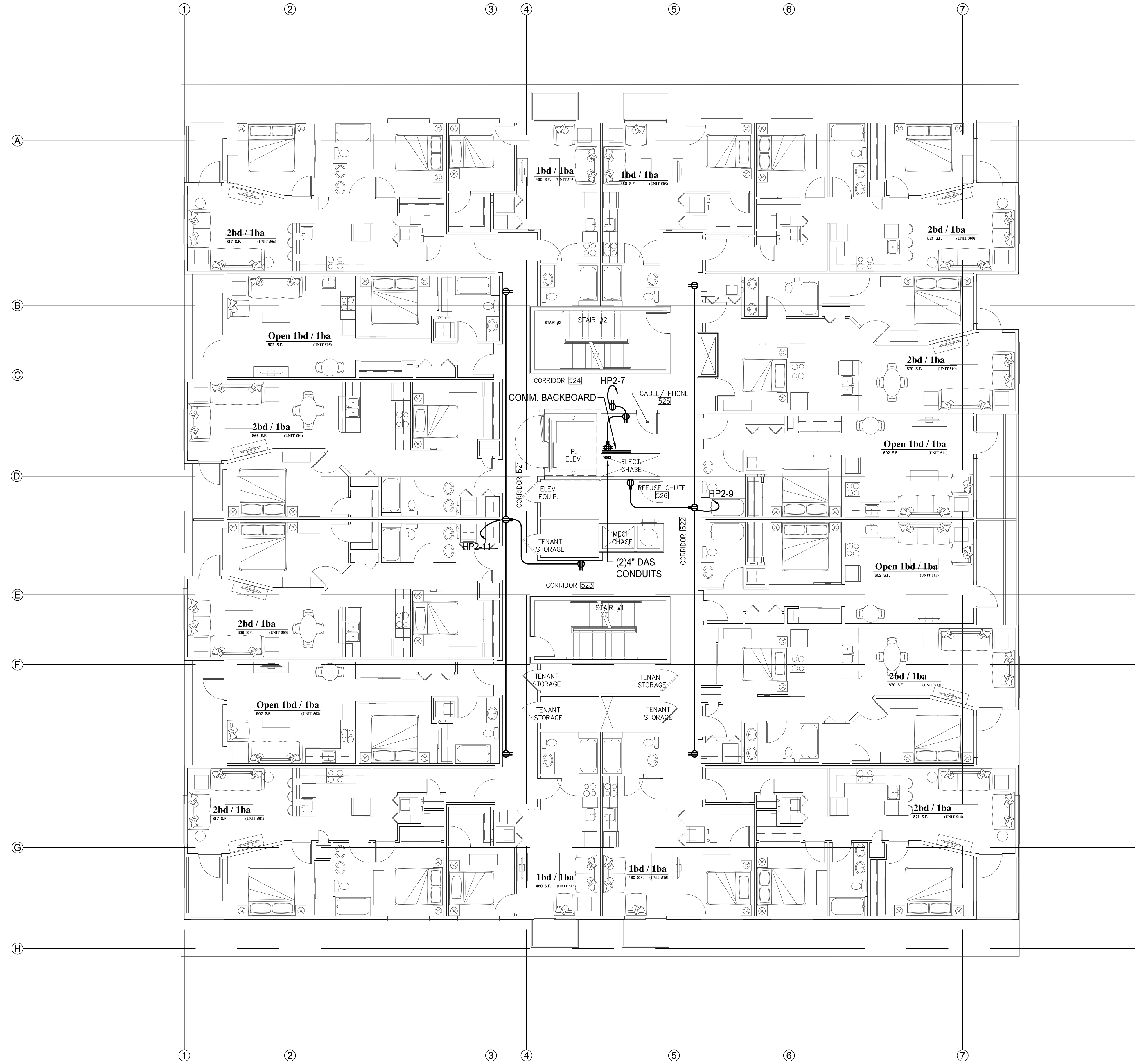
St. Helens Mixed Use
 Tacoma, Washington
FIFTH FLOOR POWER/SIGNAL PLAN

1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

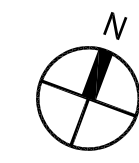
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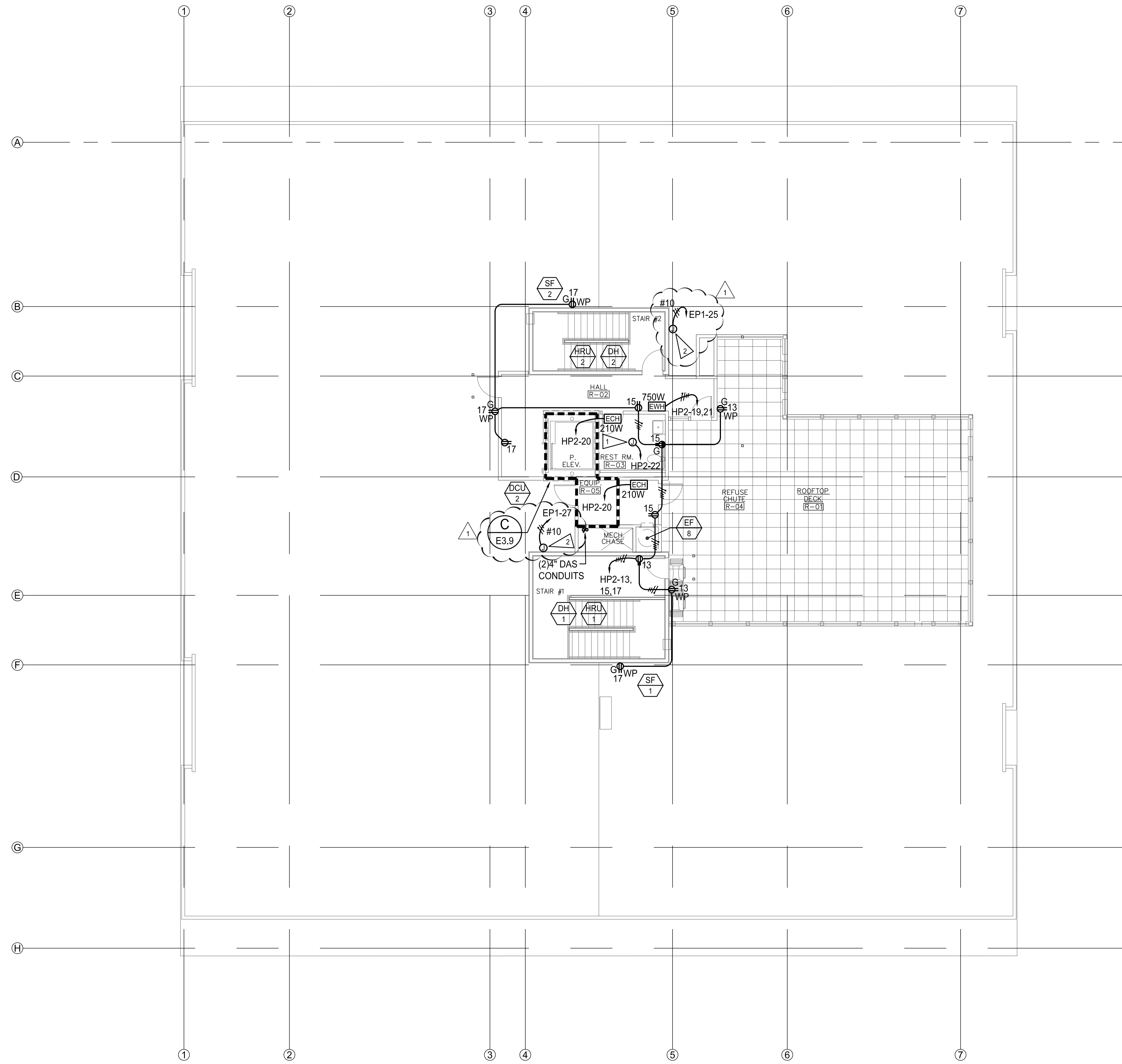
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 DRAWN BY : JAE
 ISSUE DATE : 8-29-2023
 LATEST REV. :
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"Note for Construction"
 Subject to Jurisdictional
 Review

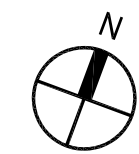


FIFTH FLOOR POWER/SIGNAL PLAN
 SCALE: 1/8"=1'-0"





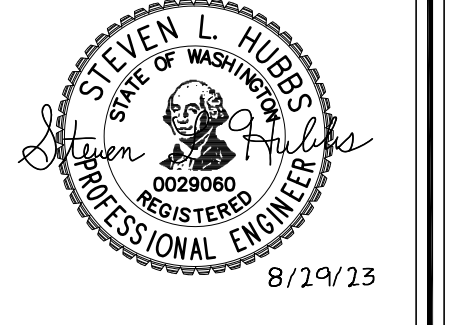
ROOF POWER/SIGNAL PLAN
SCALE: 1/8"=1'-0"



ELECTRICAL NOTES:

1 ERV-3 CONNECTION. CONTROLLED BY OCCUPANCY SENSOR IN ELEVATOR LOBBY. SEE MECHANICAL DRAWING FOR ADDITIONAL REQUIREMENTS.

2 MOTORIZED DAMPER/BAROMETRIC RELIEF DAMPER CONNECTION. FIELD COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN.



REVISIONS THIS SHEET

PERMIT COMMENTS 8-29-23

St. Helens Mixed Use
Tacoma, Washington
ROOF POWER/SIGNAL PLAN

1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

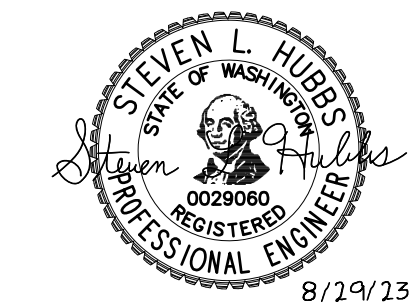
PERMIT RESUBMITTAL

PROJECT NO. : 22-033
DRAWN BY : JAE
ISSUE DATE : 8-29-2023
LATEST REV. :
THIS SET : -

"Note for Construction"
Subject to Jurisdictional
Review

CROSS ENGINEERS, INC
923 MLK Jr. Way
Tacoma, WA 98405
info@crossengineers.com

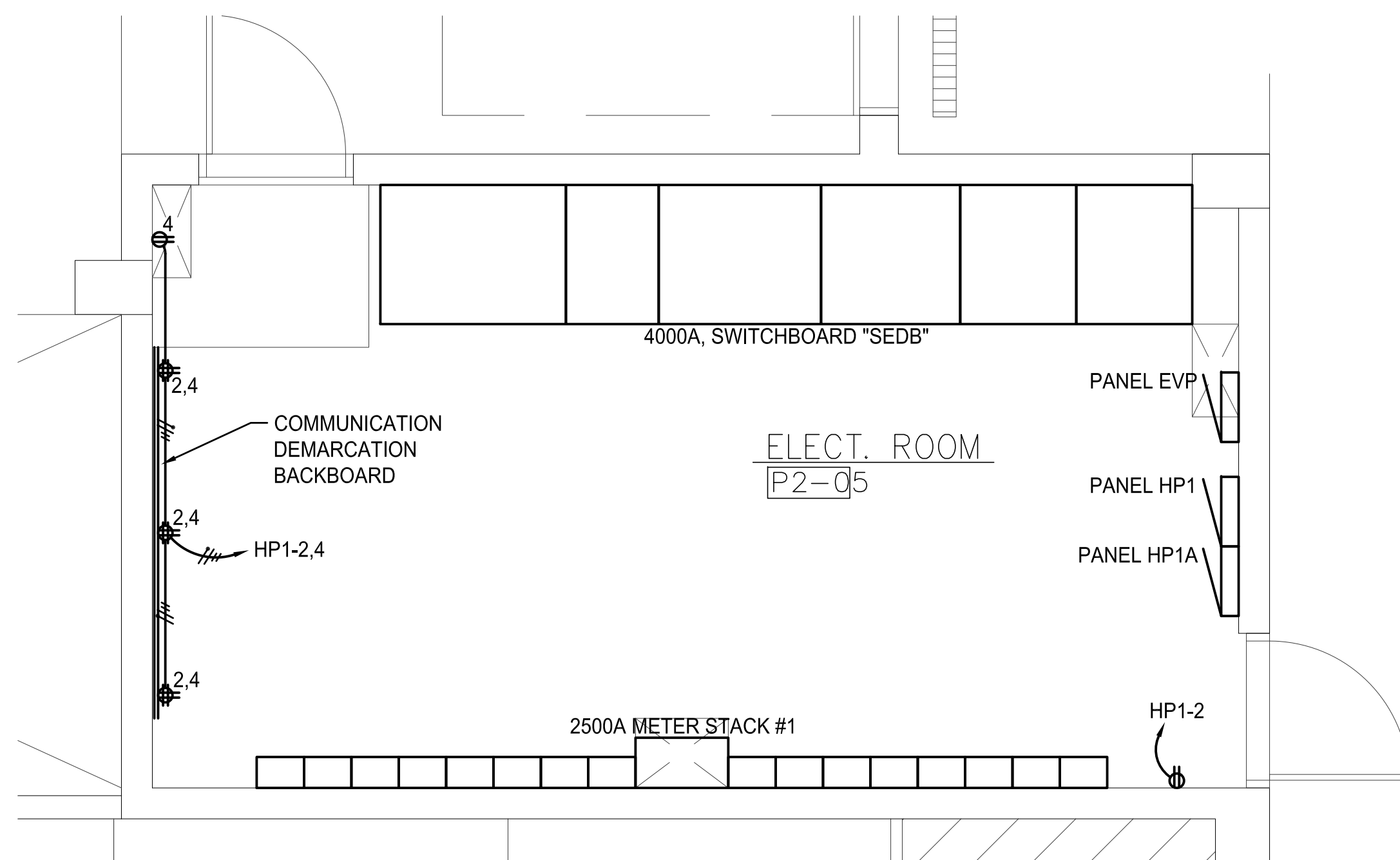
Phone: (253) 759-0118
Job Number: 22-033



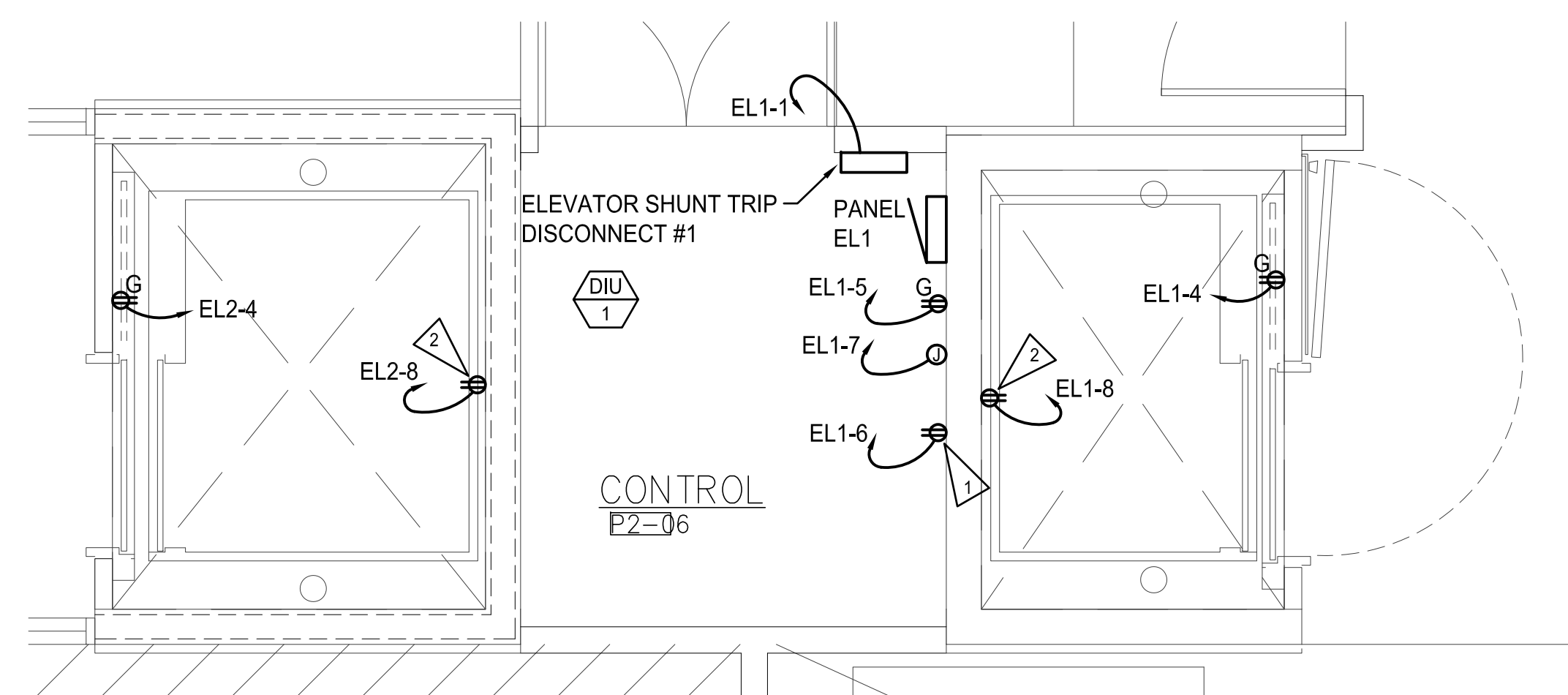
ELECTRICAL NOTES:

- 1 CONNECTION FOR HIGH WATER ALARM PANEL AND ELEVATOR PIT SUMP PUMP CONTROL PANEL.
- 2 ELEVATOR PIT SUMP PUMP CONNECTION.

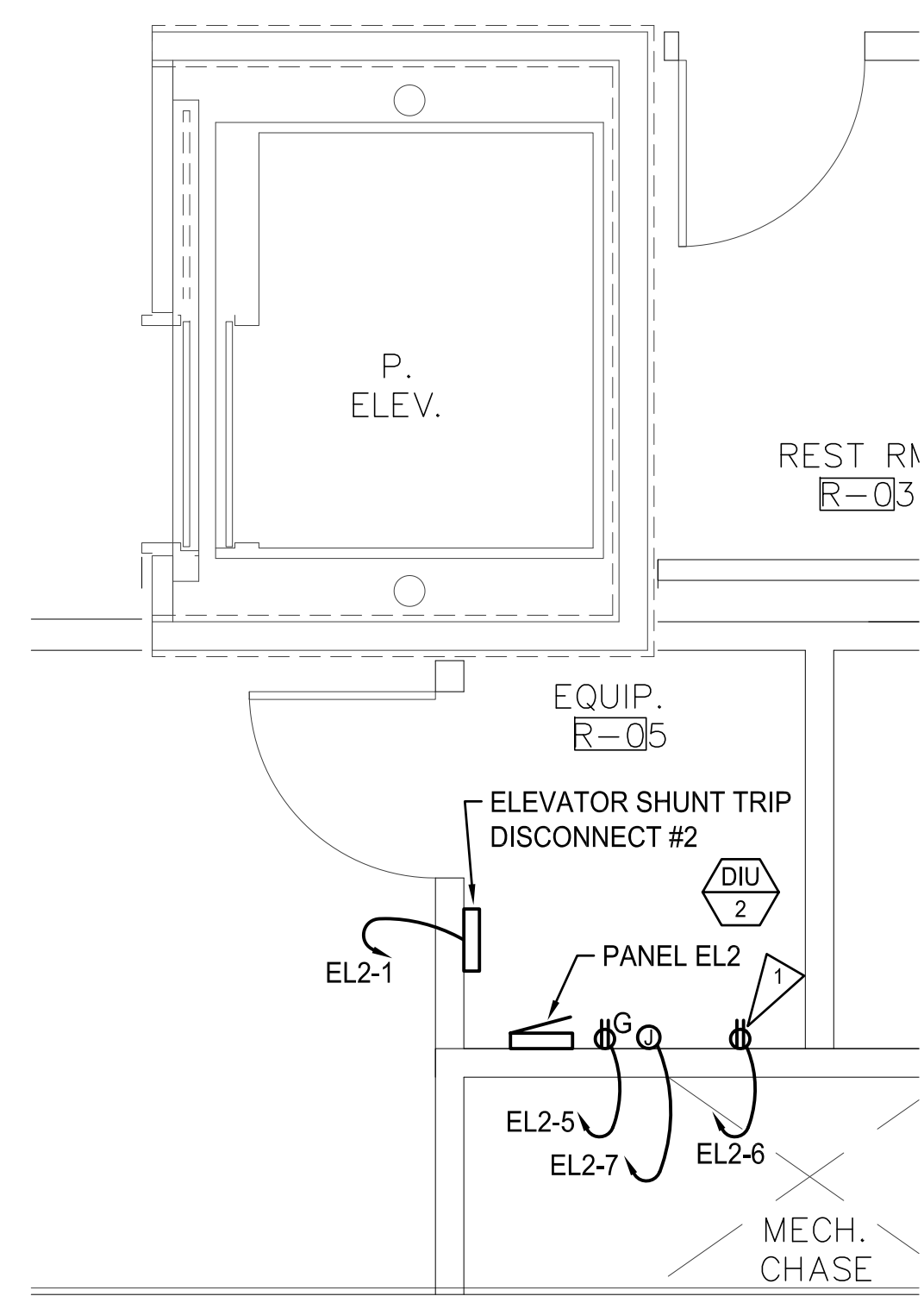
REVISIONS THIS SHEET



A PARTIAL POWER/SIGNAL FLOOR PLAN
E3.9 SCALE: 3/8"=1'-0"



B PARTIAL POWER/SIGNAL FLOOR PLAN
E3.9 SCALE: 3/8"=1'-0"



C PARTIAL POWER/SIGNAL FLOOR PLAN
E3.9 SCALE: 3/8"=1'-0"

St. Helens Mixed Use
Tacoma, Washington
PARTIAL POWER/SIGNAL FLOOR PLANS

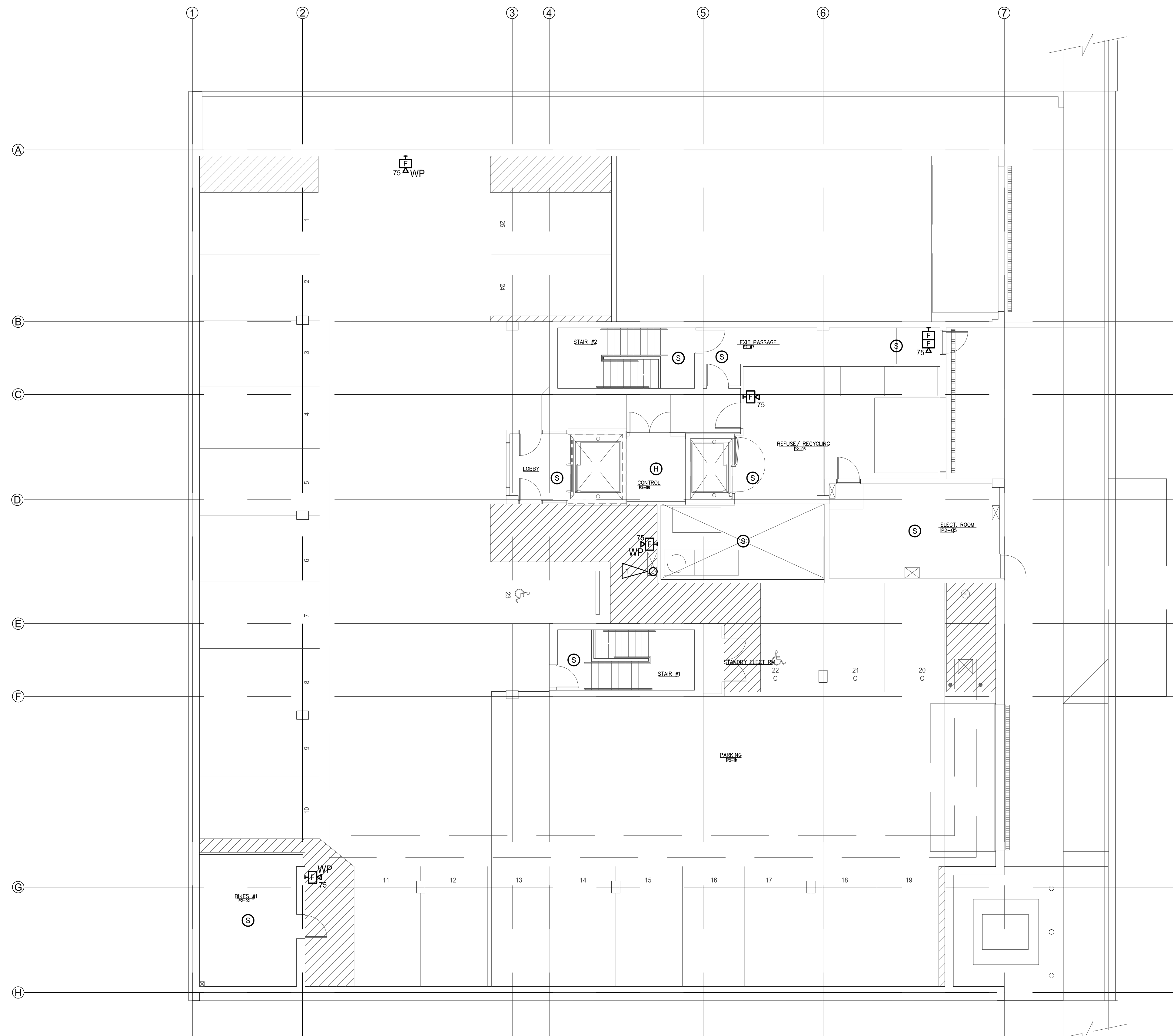
1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

PERMIT RESUBMITTAL

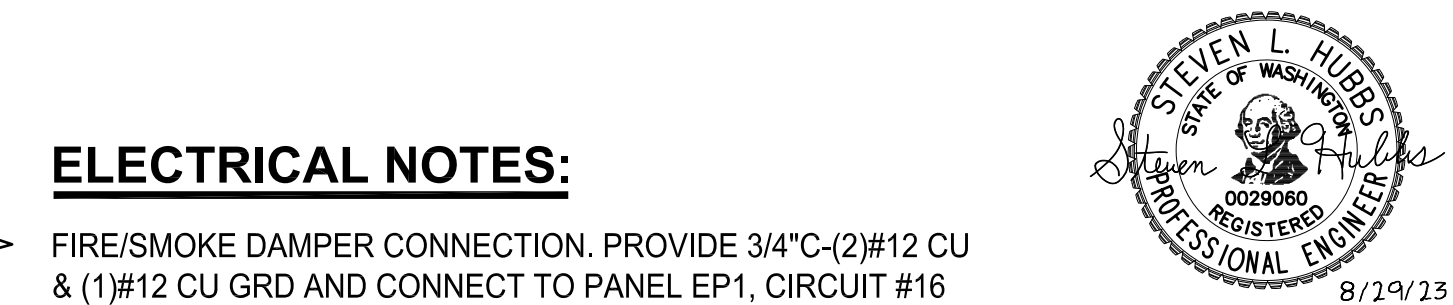
PROJECT NO. : 22-033
 DRAWN BY : JAE
 ISSUE DATE : 8-29-2023
 LATEST REV. :
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"Note for Construction"
Subject to Jurisdictional
Review





LEVEL P2 FIRE ALARM PLAN
SCALE: 1/8"=1'-0"



ELECTRICAL NOTES:
 1 FIRE/SMOKE DAMPER CONNECTION. PROVIDE 3/4"C-(2)#12 CU & (1)#12 CU GRD AND CONNECT TO PANEL EP1, CIRCUIT #16 FOR POWER CONNECTION. PROVIDE ADDITIONAL FIRE ALARM WIRING CONNECTION FOR CONTROL.

REVISIONS THIS SHEET

- 1
- 2
- 3
- 4

St. Helens Mixed Use
 Tacoma, Washington
LEVEL P2 FIRE ALARM PLAN

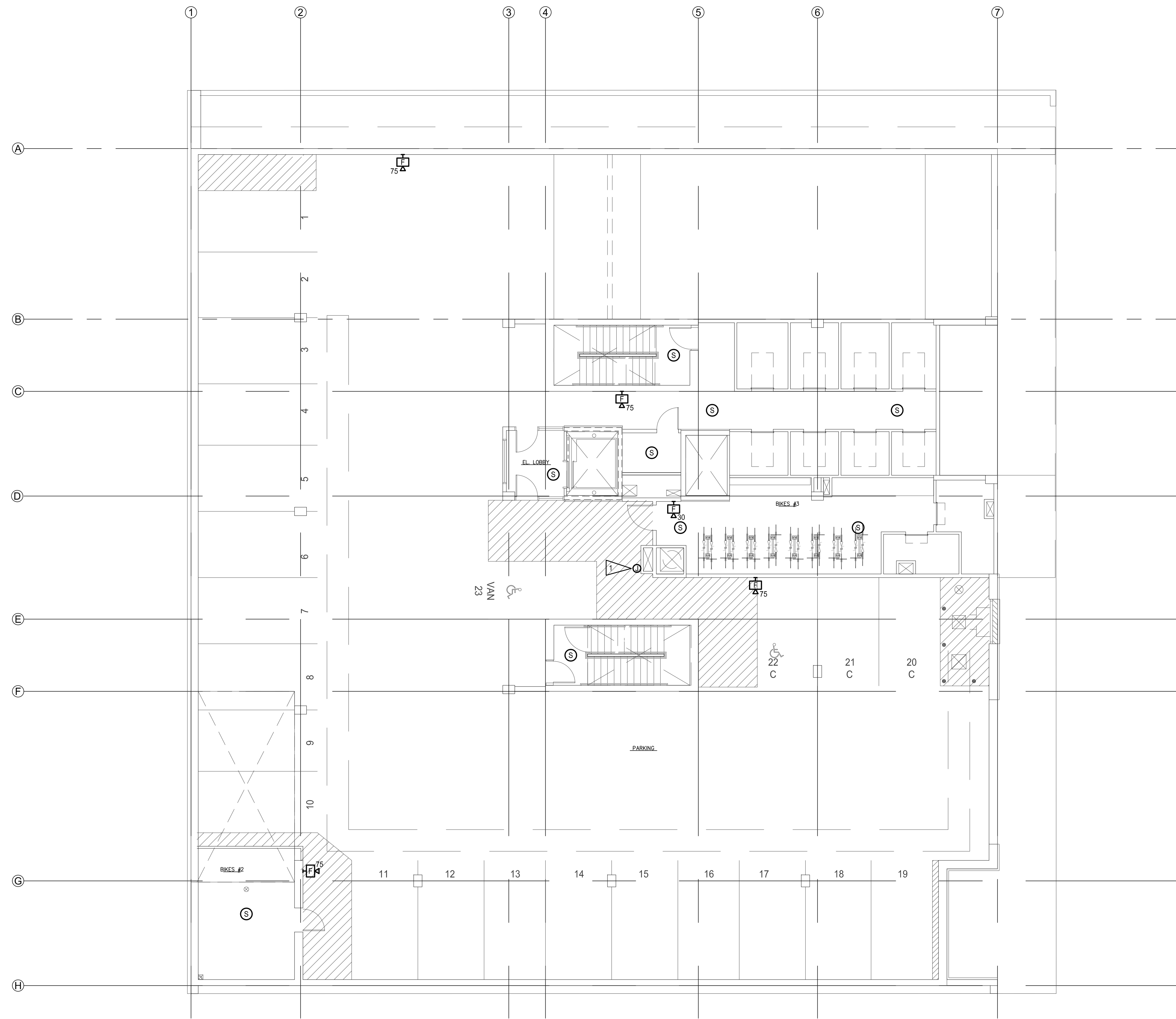
1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

PERMIT RESUBMITTAL

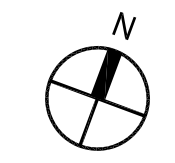
PROJECT NO. :	22-033
DRAWN BY :	JAE
ISSUE DATE :	8-29-2023
LATEST REV. :	△
THIS SET :	△

"Note for Construction"
 Subject to Jurisdictional Review



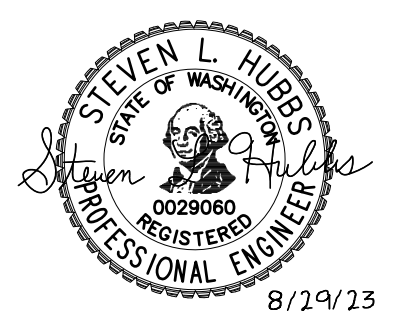


LEVEL P1 FIRE ALARM PLAN
 SCALE: 1/8"=1'-0"



ELECTRICAL NOTES:

1 FIRE/SMOKE DAMPER CONNECTION. PROVIDE 3/4"C-(2)#12 CU & (1)#12 CU GRD AND CONNECT TO PANEL EP1, CIRCUIT #16 FOR POWER CONNECTION. PROVIDE ADDITIONAL FIRE ALARM WIRING CONNECTION FOR CONTROL.



REVISIONS THIS SHEET

- 1
- 2
- 3
- 4

St. Helens Mixed Use
 Tacoma, Washington
LEVEL P1 FIRE ALARM PLAN

1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

PERMIT RESUBMITTAL

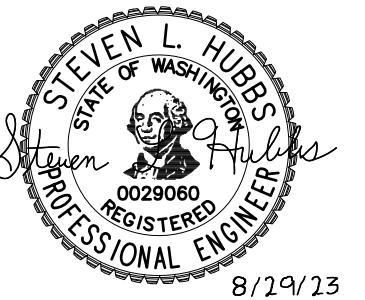
PROJECT NO. : 22-033
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"Note for Construction"
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CROSS ENGINEERS, INC
 923 MLK Jr. Way
 Tacoma, WA 98405
 info@crossengineers.com
 Phone: (253) 759-0118
 Job Number: 22-033

Casey + DeChant Architects, LLC Architecture And Planning

E4.1

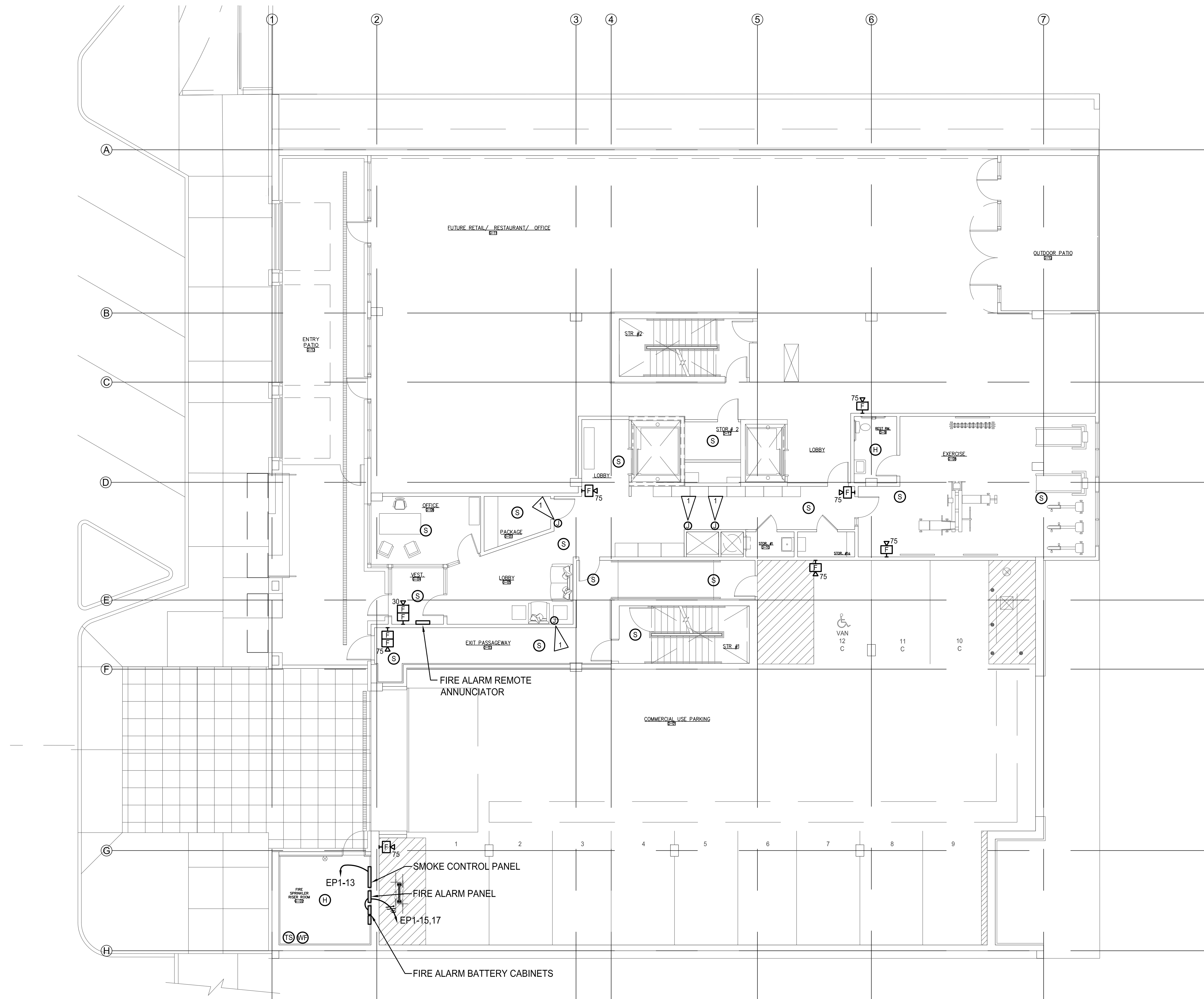


ELECTRICAL NOTES:

1 FIRE/SMOKE DAMPER CONNECTION. PROVIDE 3/4"C-(2)#12 CU & (1)#12 CU GRD AND CONNECT TO PANEL EP1, CIRCUIT #18 FOR POWER CONNECTION. PROVIDE ADDITIONAL FIRE ALARM WIRING CONNECTION FOR CONTROL.

REVISIONS THIS SHEET

- 1
- 2
- 3
- 4



GROUND FLOOR FIRE ALARM PLAN
SCALE: 1/8"=1'-0"



PERMIT RESUBMITTAL

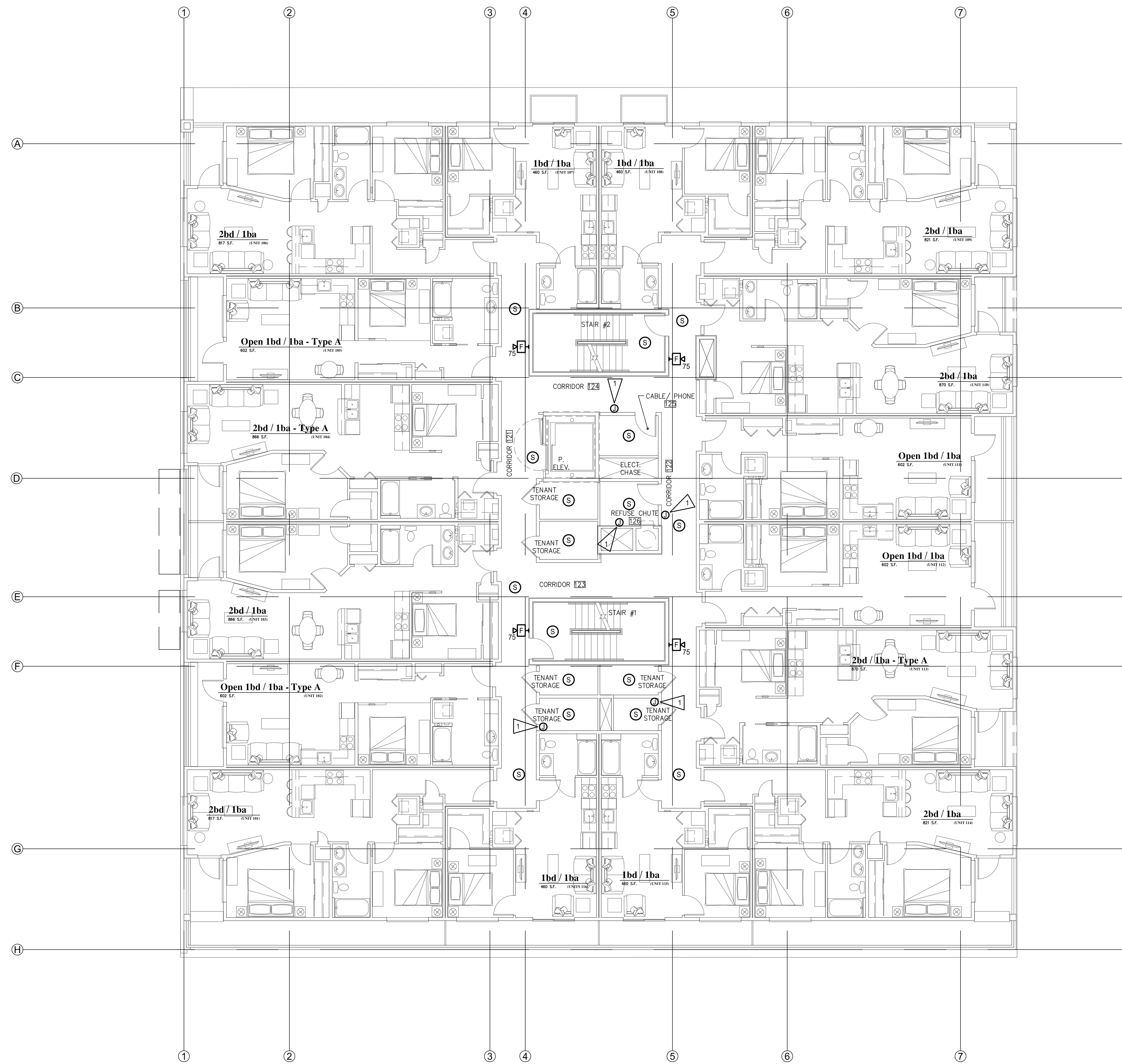
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 DRAWN BY : JAE
 ISSUE DATE : 8-29-2023
 LATEST REV. :
 THIS SET : 1 - 4

St. Helens Mixed Use
 Tacoma, Washington
GROUND FLOOR FIRE ALARM PLAN

1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

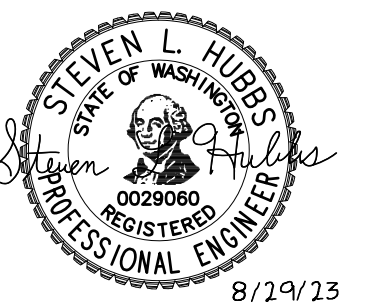
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Subject to Jurisdictional
Review



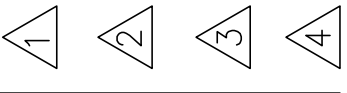


ELECTRICAL NOTES:

1 FIRE/SMOKE DAMPER CONNECTION. PROVIDE 3/4"C-(2)#12 CU & (1)#12 CU GRD AND CONNECT TO PANEL EP1, CIRCUIT #20 FOR POWER CONNECTION. PROVIDE ADDITIONAL FIRE ALARM WIRING CONNECTION FOR CONTROL.



REVISIONS THIS SHEET



St. Helens Mixed Use
 Tacoma, Washington
FIRST FLOOR FIRE ALARM PLAN
 1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

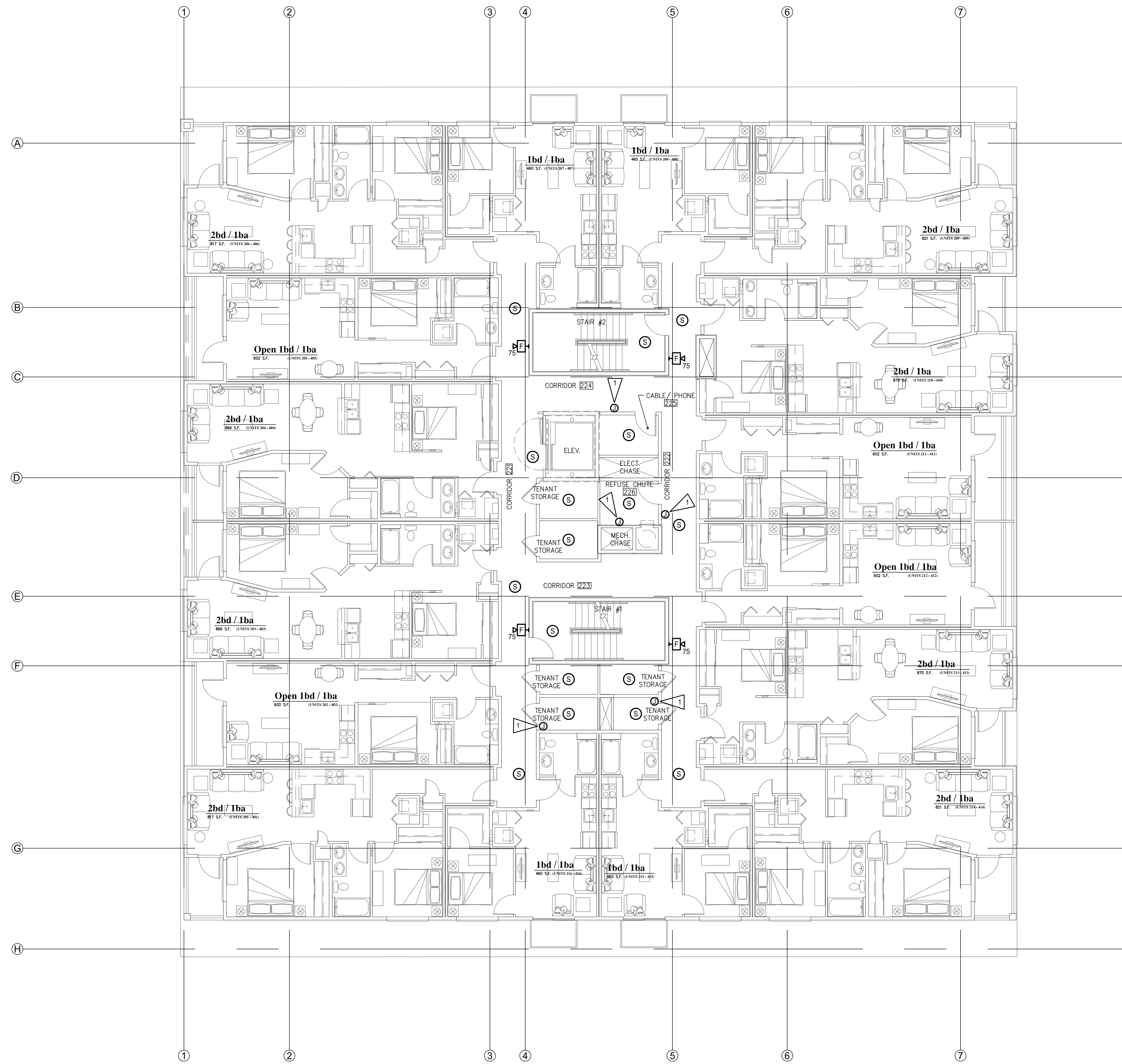
PERMIT RESUBMITTAL

PROJECT NO. : 22-033
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 LATEST REV. :
 THIS SET : -

"Note for Construction"
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 Review

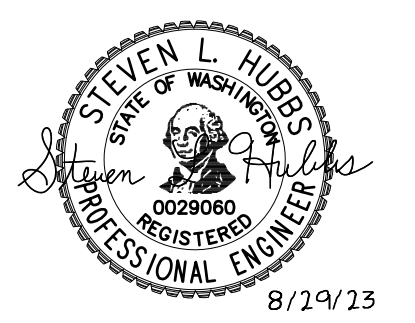
FIRST FLOOR FIRE ALARM PLAN
 SCALE: 1/8"=1'-0"





ELECTRICAL NOTES:

1 FIRE/SMOKE DAMPER CONNECTION. PROVIDE 3/4"C-(2)#12 CU & (1)#12 CU GRD AND CONNECT TO PANEL EP1, CIRCUIT #22 FOR POWER CONNECTION. PROVIDE ADDITIONAL FIRE ALARM WIRING CONNECTION FOR CONTROL.



REVISIONS THIS SHEET

- 1
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St. Helens Mixed Use
 Tacoma, Washington
SECOND FLOOR FIRE ALARM PLAN

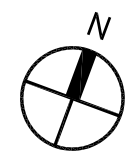
1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

PERMIT RESUBMITTAL

PROJECT NO. :	22-033
DRAWN BY :	JAE
ISSUE DATE :	8-29-2023
LATEST REV. :	1
THIS SET :	1

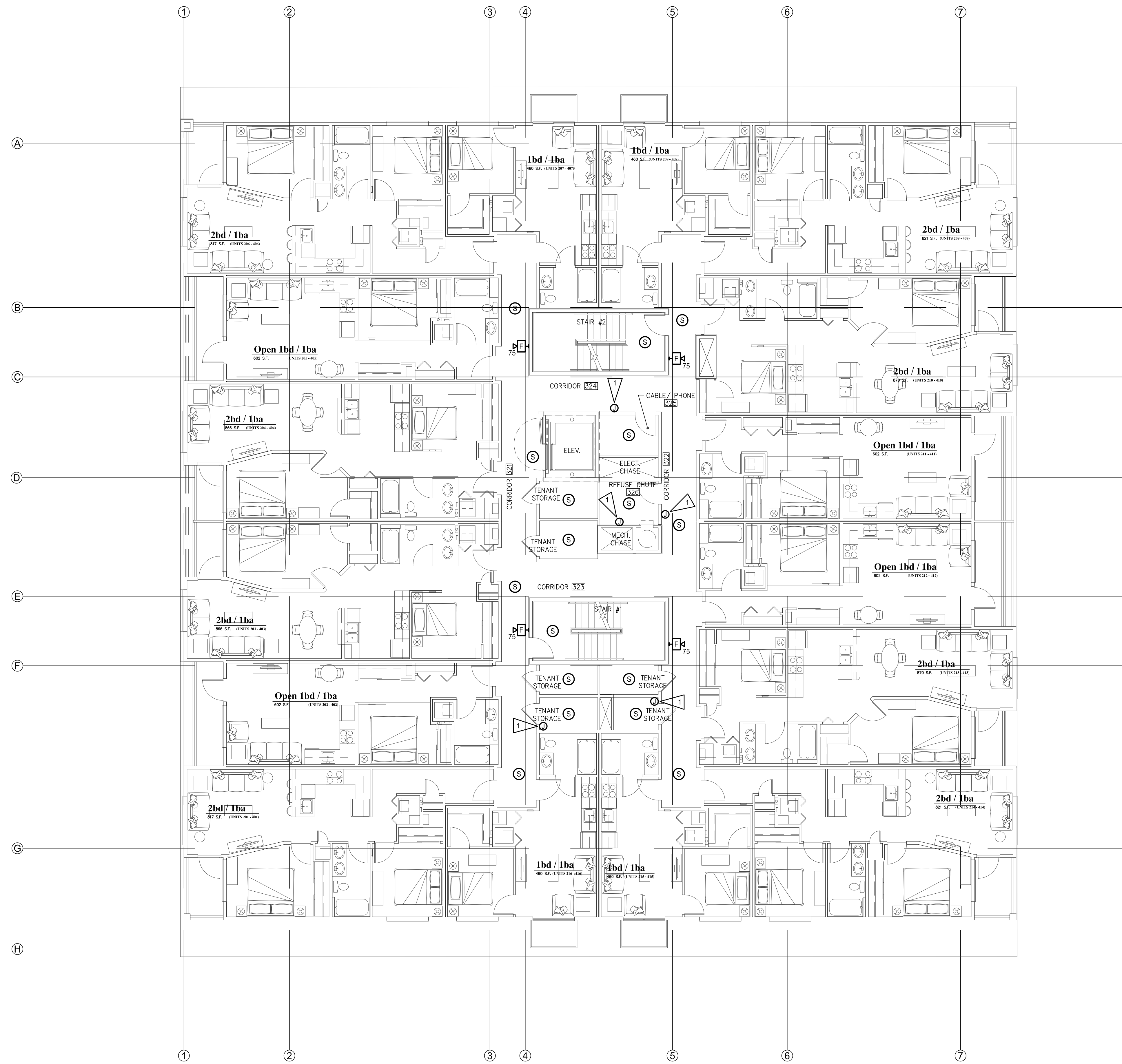
"Note for Construction"
 Subject to Jurisdictional Review

SECOND FLOOR FIRE ALARM PLAN
 SCALE: 1/8"=1'-0"

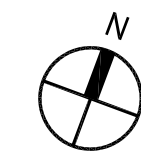


CROSS ENGINEERS, INC
 923 MLK Jr. Way
 Tacoma, WA 98405
 info@crossengineers.com

Phone: (253) 759-0118
 Job Number: 22-033

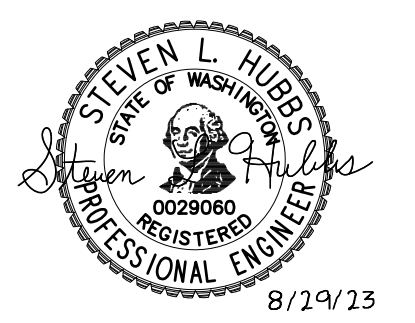


THIRD FLOOR FIRE ALARM PLAN
 SCALE: 1/8"=1'-0"

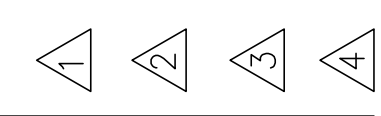


ELECTRICAL NOTES:

1 FIRE/SMOKE DAMPER CONNECTION. PROVIDE 3/4"C-(2)#12 CU & (1)#12 CU GRD AND CONNECT TO PANEL EP1, CIRCUIT #24 FOR POWER CONNECTION. PROVIDE ADDITIONAL FIRE ALARM WIRING CONNECTION FOR CONTROL.



REVISIONS THIS SHEET



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St. Helens Mixed Use
 Tacoma, Washington

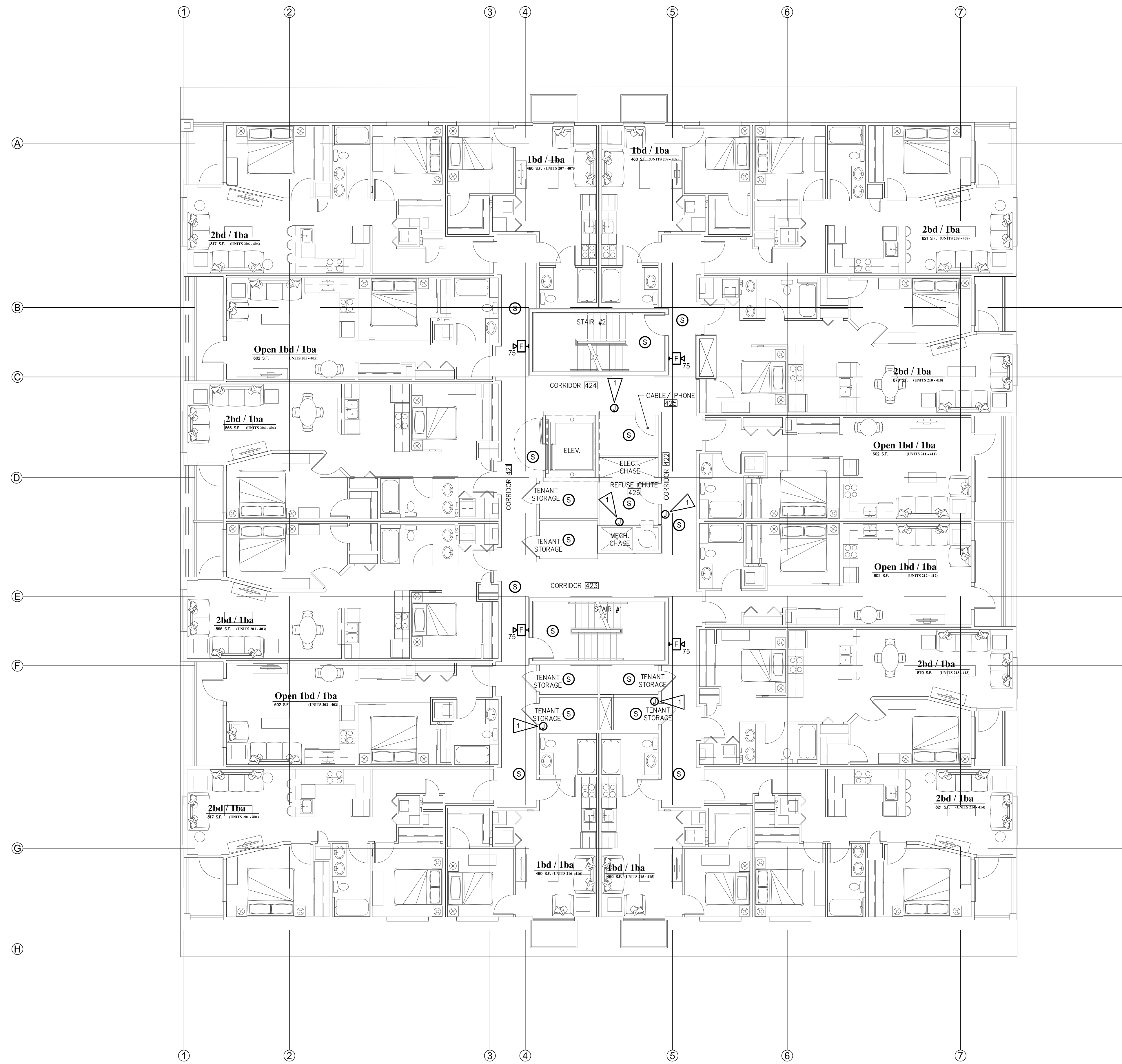
THIRD FLOOR FIRE ALARM PLAN

1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

PROJECT NO. : 22-033
 DRAWN BY : JAE
 ISSUE DATE : 8-29-2023
 LATEST REV. :
 THIS SET : 4

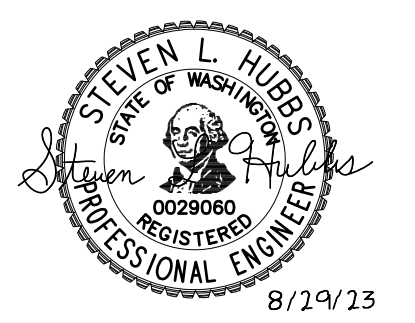
"Note for Construction"
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ELECTRICAL NOTES:

1 FIRE/SMOKE DAMPER CONNECTION. PROVIDE 3/4"C-(2)#12 CU & (1)#12 CU GRD AND CONNECT TO PANEL EP1, CIRCUIT #19 FOR POWER CONNECTION. PROVIDE ADDITIONAL FIRE ALARM WIRING CONNECTION FOR CONTROL.



REVISIONS THIS SHEET

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St. Helens Mixed Use
 Tacoma, Washington
FOURTH FLOOR FIRE ALARM PLAN

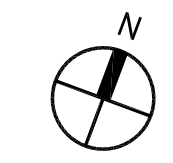
1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

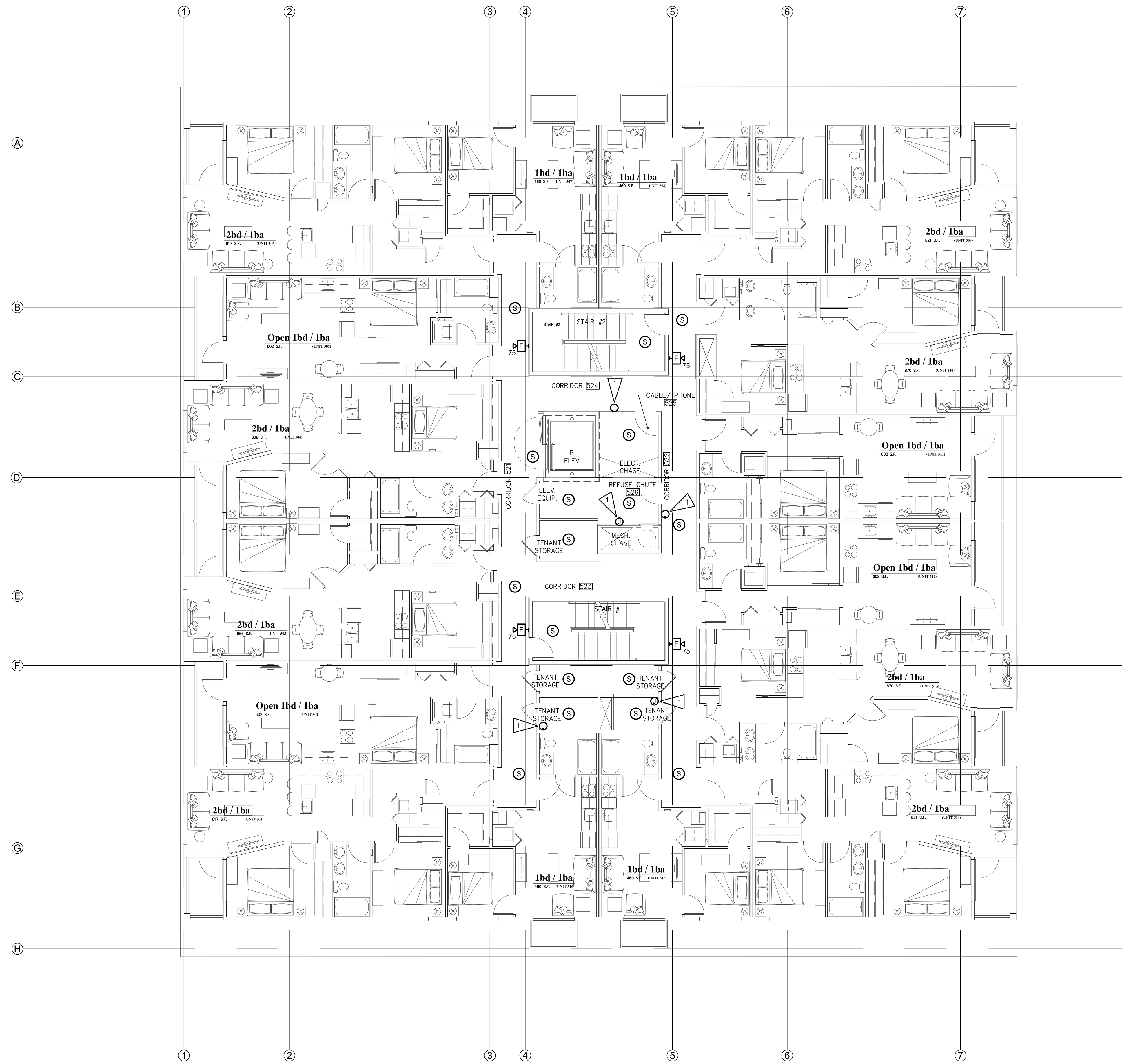
PERMIT RESUBMITTAL

PROJECT NO. :	22-033
DRAWN BY :	JAE
ISSUE DATE :	8-29-2023
LATEST REV. :	1
THIS SET :	1

"Note for Construction"
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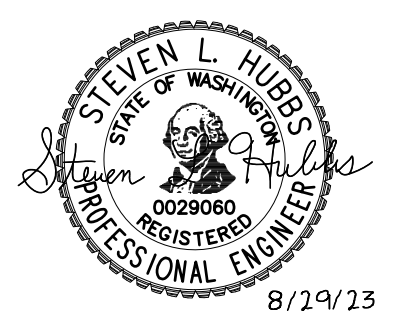
FOURTH FLOOR FIRE ALARM PLAN
 SCALE: 1/8"=1'-0"



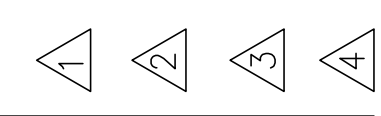


ELECTRICAL NOTES:

1 FIRE/SMOKE DAMPER CONNECTION. PROVIDE 3/4"C-(2)#12 CU & (1)#12 CU GRD AND CONNECT TO PANEL EP1, CIRCUIT #21 FOR POWER CONNECTION. PROVIDE ADDITIONAL FIRE ALARM WIRING CONNECTION FOR CONTROL.



REVISIONS THIS SHEET



St. Helens Mixed Use
 Tacoma, Washington
FIFTH FLOOR FIRE ALARM PLAN

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PERMIT RESUBMITTAL

PROJECT NO. : 22-033
 DRAWN BY : JAE
 ISSUE DATE : 8-29-2023
 LATEST REV. :
 THIS SET : -

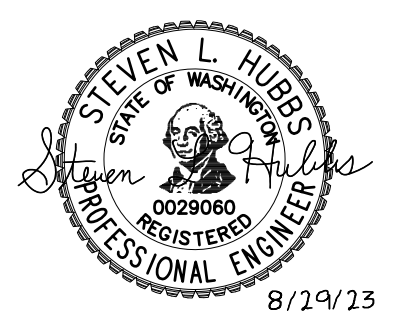
"Note for Construction"
 Subject to Jurisdictional
 Review

FIFTH FLOOR FIRE ALARM PLAN
 SCALE: 1/8"=1'-0"



ELECTRICAL NOTES:

1 FIRE/SMOKE DAMPER CONNECTION. PROVIDE 3/4"C-(2)#12 CU & (1)#12 CU GRD AND CONNECT TO PANEL EP1, CIRCUIT #23 FOR POWER CONNECTION. PROVIDE ADDITIONAL FIRE ALARM WIRING CONNECTION FOR CONTROL.



REVISIONS THIS SHEET

- 1
- 2
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St. Helens Mixed Use
 Tacoma, Washington
ROOF FIRE ALARM PLAN

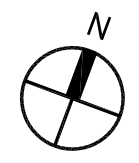
1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

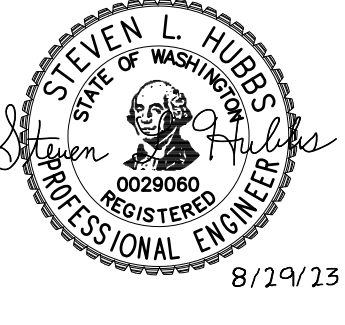
PERMIT RESUBMITTAL

PROJECT NO. :	22-033
DRAWN BY :	JAE
ISSUE DATE :	8-29-2023
LATEST REV. :	△
THIS SET :	-

"Note for Construction"
Subject to Jurisdictional Review

ROOF FIRE ALARM PLAN
SCALE: 1/8"=1'-0"

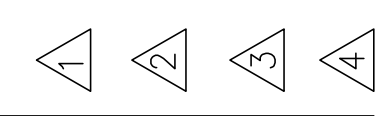




ELECTRICAL NOTES:

- 1 DISPOSAL CONNECTION. PROVIDE CONTROL SWITCH ABOVE COUNTER FOR ON/OFF CONTROL OF DISPOSAL.
- 2 TANKLESS HOT WATER HEATER CONNECTION. UNIT PROVIDED WITH DUAL CONNECTIONS AND SHALL BE CONNECTED TO 50A/2-POLE CIRCUIT BREAKERS IN PANEL UP, CIRCUITS #17,19 AND #21,23.

REVISIONS THIS SHEET



TYPICAL (20) UNITS

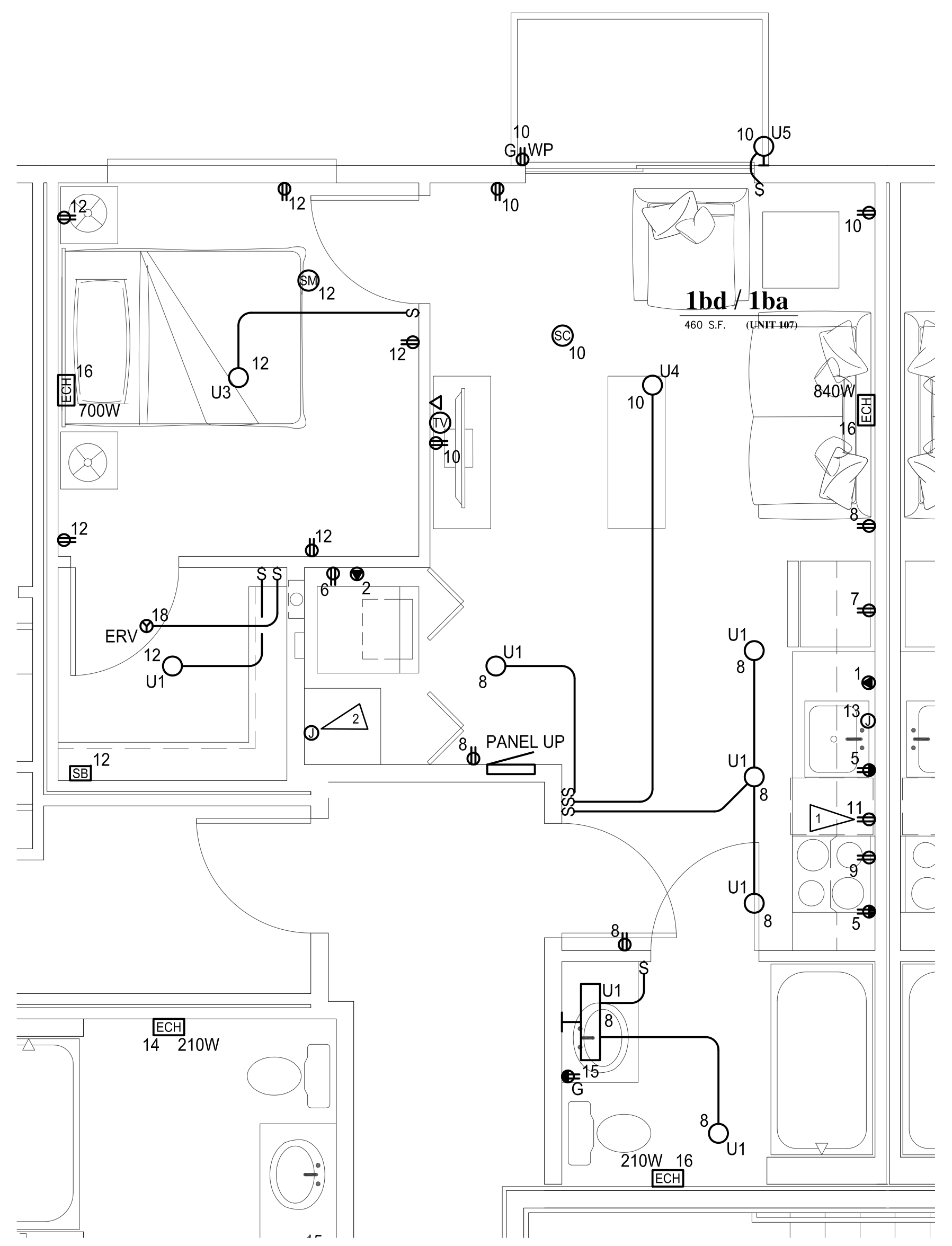
FLUSH MOUNTING 10,000 AIC		PANEL SCHEDULE										
No. UP		LOCATION: 1-BED/1-BATH					120/208 VOLTS 1PHASE 3WIRE SERVING: 1-BED/1-BATH 125 AMPS WITH 125 MAIN BREAKER					
CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS	KVA	LOAD DESCRIPTION	CKT NO.	TRIP AMPS	TRIP AMPS	KVA	LOAD DESCRIPTION	CKT NO.
1	RANGE	8.00	50	30	5.00	DRYER	2					
3							4					
5	KITCHEN RECEPTACLES	1.50	20	20	1.50	WASHER	6					
7	KITCHEN RECEPTACLES	1.50	20	15	1.20	LIGHTS/RECEPTACLES	8					
9	DISHWASHER	1.00	15	15	1.20	LIGHTS/RECEPTACLES	10					
11	DISPOSAL	.50	15	15	1.20	BEDROOM LIGHTS/RECEPTS	12					
13	MICROWAVE/HOOD	1.20	20	20	.84	WALL HEATER	14					
15	BATH RECEPTACLE	.18	20	20	.91	WALL HEATER	16					
17	TANKLESS WATER	9.00	50	20	.10	ERV	18					
19	HEATER CONN. #1		2			SPACE	20					
21	TANKLESS WATER	9.00	50				22					
23	HEATER CONN. #2		2			SPACE	24					
25	SPACE						26					
27	SPACE					TVSS	28					
29	SPACE						30					
REMARKS: .						CONNECTED LOAD: 41.2 KVA 198 AMPS						
						DEMAND LOAD: 23.5 KVA 113 AMPS						

- * PROVIDE DUAL FUNCTION GFI/ARC FAULT CIRCUIT BREAKER.
- ** PROVIDE ARC FAULT CIRCUIT BREAKER.
- *** PROVIDE GFI CIRCUIT BREAKER.

TYPICAL (19) UNITS

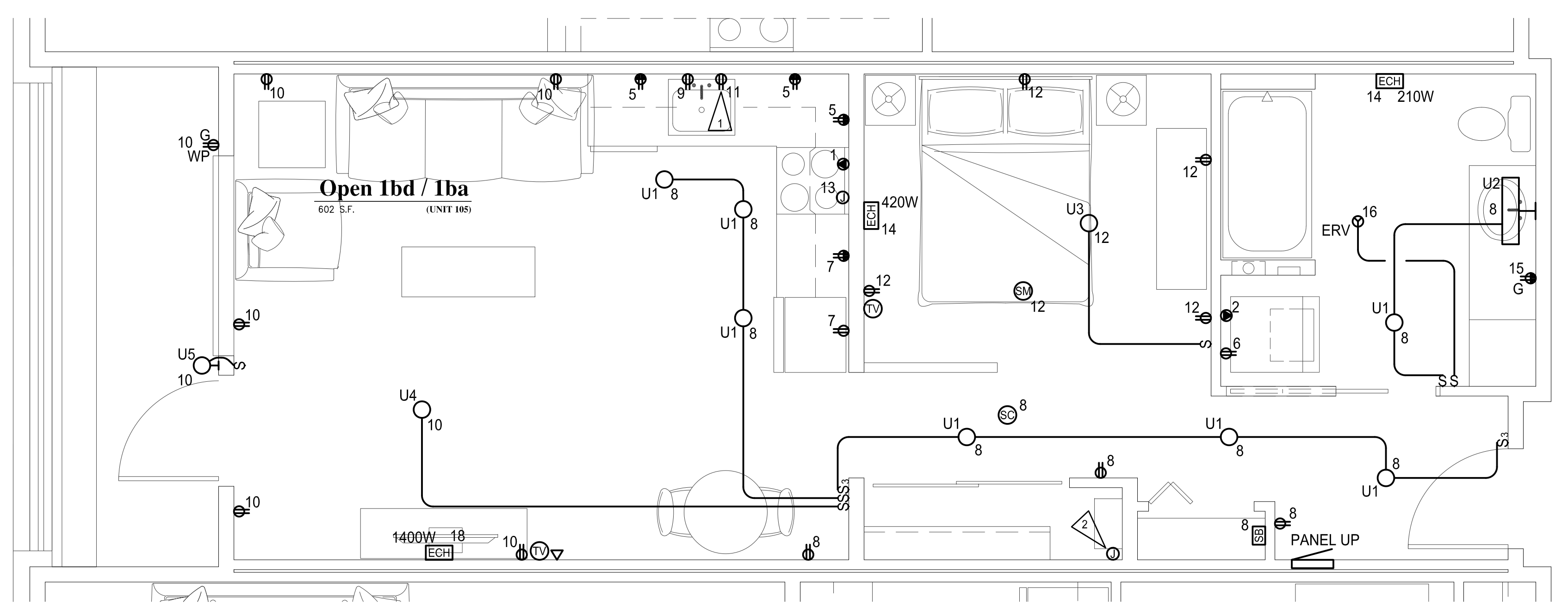
FLUSH MOUNTING 10,000 AIC		PANEL SCHEDULE										
No. UP		LOCATION: OPEN 1-BED/1-BATH					120/208 VOLTS 1PHASE 3WIRE SERVING: OPEN 1-BED/1-BATH 125 AMPS WITH 125 MAIN BREAKER					
CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS	KVA	LOAD DESCRIPTION	CKT NO.	TRIP AMPS	TRIP AMPS	KVA	LOAD DESCRIPTION	CKT NO.
1	RANGE	8.00	50	30	5.00	DRYER	2					
3							4					
5	KITCHEN RECEPTACLES	1.50	20	20	1.50	WASHER	6					
7	KITCHEN RECEPTACLES	1.50	15	15	1.20	LIGHTS/RECEPTACLES	8					
9	DISHWASHER	1.00	15	15	1.20	LIGHTS/RECEPTACLES	10					
11	DISPOSAL	.50	15	15	1.20	BEDROOM LIGHTS/RECEPTS	12					
13	MICROWAVE/HOOD	1.20	20	20	.63	WALL HEATER	14					
15	BATH RECEPTACLE	.18	20	20	.10	ERV	16					
17	TANKLESS WATER	9.00	50	20	1.40	WALL HEATER	18					
19	HEATER CONN. #1		2			SPACE	20					
21	TANKLESS WATER	9.00	50			SPACE	22					
23	HEATER CONN. #2		2			SPACE	24					
25	SPACE					SPACE	26					
27	SPACE					TVSS	28					
29	SPACE						30					
REMARKS: .						CONNECTED LOAD: 41.9 KVA 201 AMPS						
						DEMAND LOAD: 24.0 KVA 115 AMPS						

- * PROVIDE DUAL FUNCTION GFI/ARC FAULT CIRCUIT BREAKER.
- ** PROVIDE ARC FAULT CIRCUIT BREAKER.
- *** PROVIDE GFI CIRCUIT BREAKER.



1-BED/1-BATH UNIT ELECTRICAL PLAN

SCALE: 3/8"=1'-0"
NOTE: TYPICAL UNITS
107,108,115,116,207,208,215,216,307,308,
315,316,407,408,415,416,507,508,515,516



OPEN 1-BED/1-BATH UNIT ELECTRICAL PLAN

SCALE: 3/8"=1'-0"
NOTE: TYPICAL UNITS
105,111,112,202,205,211,212,302,305,311,312,
402,405,411,415,502,505,511,512

PERMIT RESUBMITTAL

St. Helens Mixed Use
Tacoma, Washington
UNIT ELECTRICAL FLOOR PLANS

PROJECT NO. : 22-033
DRAWN BY : JAE
ISSUE DATE : 8-29-2023
LATEST REV. :
THIS SET : -

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Review

1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

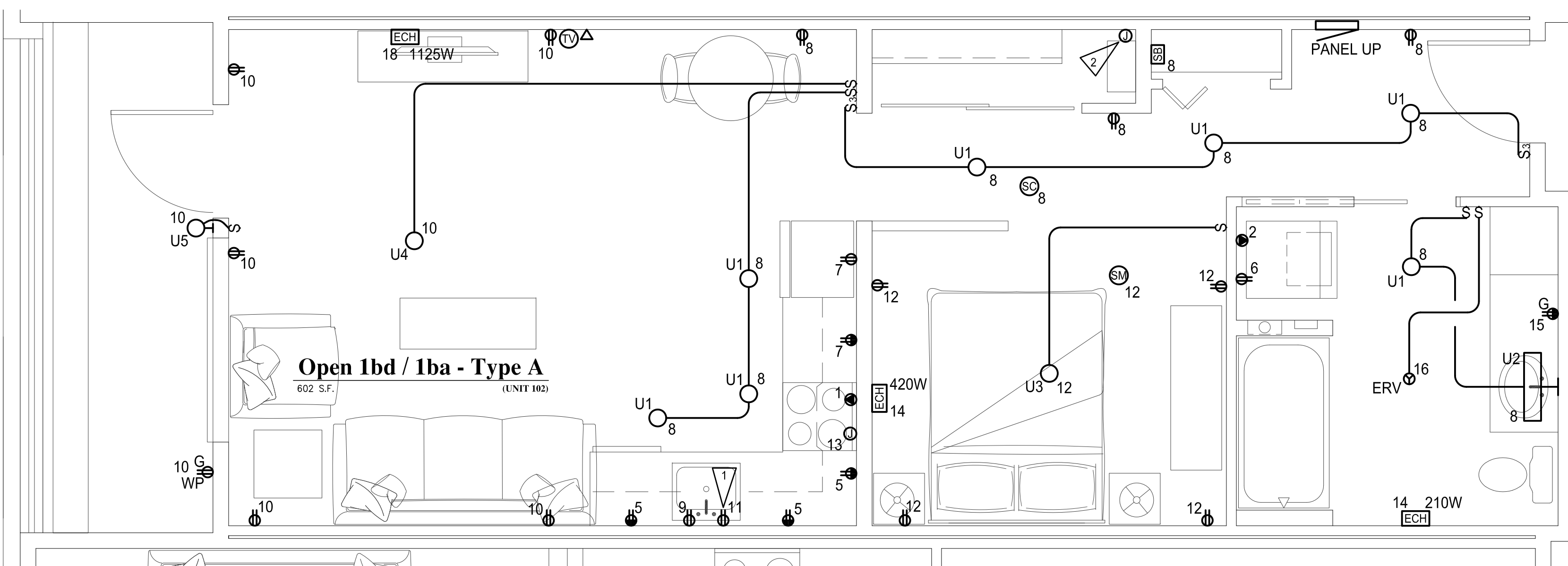
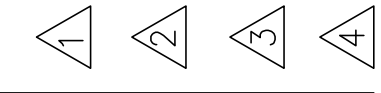




ELECTRICAL NOTES:

- 1 DISPOSAL CONNECTION. PROVIDE CONTROL SWITCH ABOVE COUNTER FOR ON/OFF CONTROL OF DISPOSAL.
- 2 TANKLESS HOT WATER HEATER CONNECTION. UNIT PROVIDED WITH DUAL CONNECTIONS AND SHALL BE CONNECTED TO 50A/2-POLE CIRCUIT BREAKERS IN PANEL UP, CIRCUITS #17,19 AND #21,23.

REVISIONS THIS SHEET



OPEN 1-BED/1-BATH TYPE A UNIT ELECTRICAL PLAN
SCALE: 3/8"=1'-0"
NOTE: TYPICAL UNIT 102 ONLY.

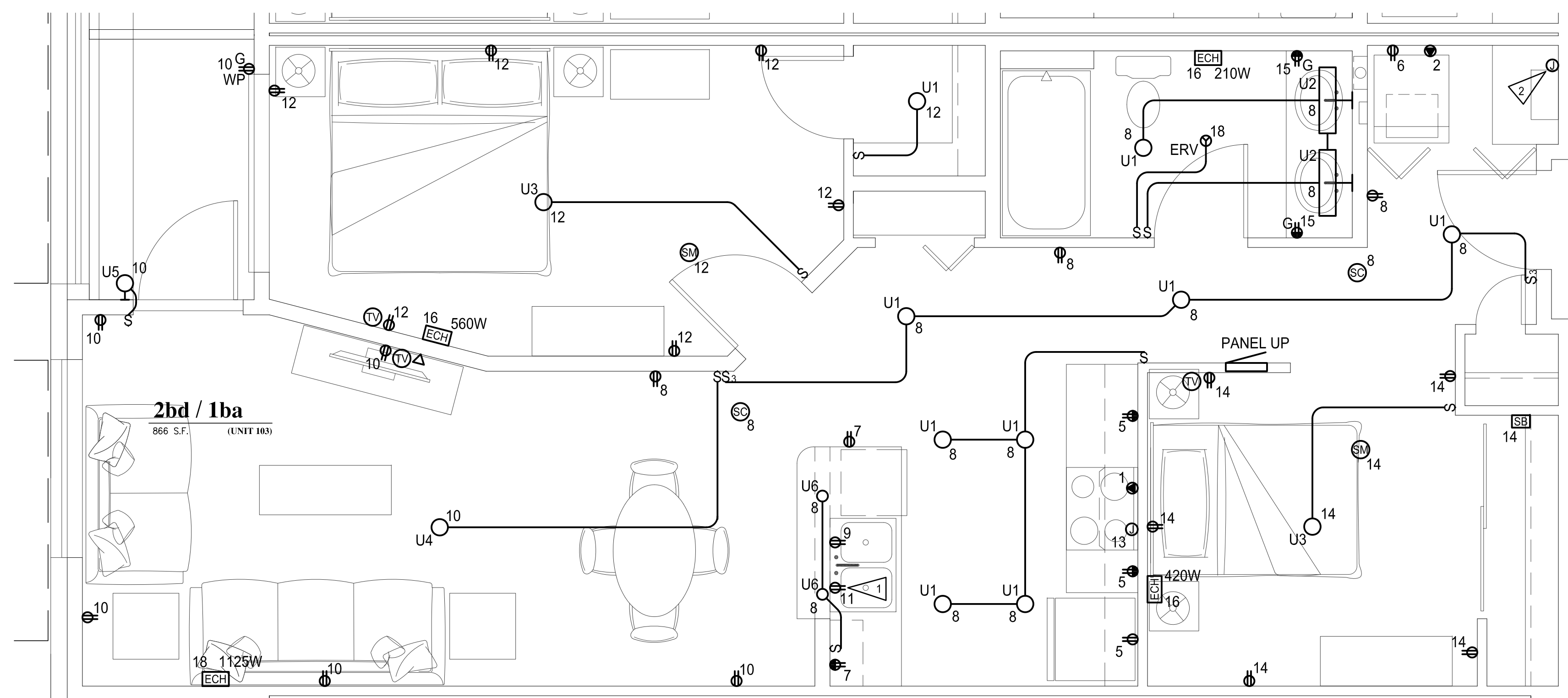
TYPICAL (1) UNIT ONLY

FLUSH MOUNTING 10,000 AIC		PANEL SCHEDULE					
NO.	UP	LOCATION: OPEN 1-BED/1-BATH TYPE A			120/208 VOLTS 1PHASE 3WIRE		
CTK NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS	KVA	LOAD DESCRIPTION	CTK NO.
1	RANGE	8.00	50	30	5.00	DRYER	2
3			2	2			4
5	KITCHEN RECEPTACLES	1.50	20	20	1.50	WASHER	6
7	KITCHEN RECEPTACLES	1.50	15	15	1.20	LIGHTS/RECEPTACLES	8
9	DISHWASHER	1.00	15	15	1.20	LIGHTS/RECEPTACLES	10
11	DISPOSAL	.50	15	15	1.20	BEDROOM LIGHTS/RECEPTS	12
13	MICROWAVE/HOOD	1.20	15	15	.63	WALL HEATER	14
15	BATH RECEPTACLE	.18	20	20	.10	ERV	16
17	TANKLESS WATER HEATER CONN. #1	9.00	50	20	1.13	WALL HEATER	18
19	HEATER CONN. #2	9.00	50	2			20
21	TANKLESS WATER HEATER CONN. #2	9.00	50	2			22
23	SPACE						24
25	SPACE						26
27	SPACE						28
29	SPACE						30

REMARKS: .

CONNECTED LOAD: 41.6 KVA 200 AMPS
DEMAND LOAD: 23.7 KVA 114 AMPS

- * PROVIDE DUAL FUNCTION GFI/ARC FAULT CIRCUIT BREAKER.
- ** PROVIDE ARC FAULT CIRCUIT BREAKER.
- *** PROVIDE GFI CIRCUIT BREAKER.



2-BED/1-BATH UNIT ELECTRICAL PLAN
SCALE: 3/8"=1'-0"
NOTE: TYPICAL UNITS
103,104,110,203,205,210,213,303,305,
310,313,403,404,410,413,503,504,510,513

TYPICAL (19) UNITS

FLUSH MOUNTING 10,000 AIC		PANEL SCHEDULE					
NO.	UP	LOCATION: 2-BED/1-BATH			120/208 VOLTS 1PHASE 3WIRE		
CTK NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS	KVA	LOAD DESCRIPTION	CTK NO.
1	RANGE	8.00	50	30	5.00	DRYER	2
3			2	2			4
5	KITCHEN RECEPTACLES	1.50	20	20	1.50	WASHER	6
7	KITCHEN RECEPTACLES	1.50	15	15	1.20	LIGHTS/RECEPTACLES	8
9	DISHWASHER	1.00	15	15	1.20	LIGHTS/RECEPTACLES	10
11	DISPOSAL	.50	15	15	1.20	BEDROOM LIGHTS/RECEPTS	12
13	MICROWAVE/HOOD	1.20	15	15	1.20	BEDROOM LIGHTS/RECEPTS	14
15	BATH RECEPTACLE	.36	20	20	1.19	WALL HEATER	16
17	TANKLESS WATER HEATER CONN. #1	9.00	50	20	.10	ERV	18
19	HEATER CONN. #2	9.00	50	2	1.13	WALL HEATER	20
21	TANKLESS WATER HEATER CONN. #2	9.00	50	2			22
23	SPACE						24
25	SPACE						26
27	SPACE						28
29	SPACE						30

REMARKS: .

CONNECTED LOAD: 43.0 KVA 207 AMPS
DEMAND LOAD: 24.6 KVA 118 AMPS

- * PROVIDE DUAL FUNCTION GFI/ARC FAULT CIRCUIT BREAKER.
- ** PROVIDE ARC FAULT CIRCUIT BREAKER.
- *** PROVIDE GFI CIRCUIT BREAKER.

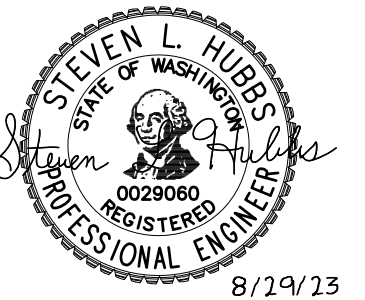
St. Helens Mixed Use
 Tacoma, Washington
UNIT ELECTRICAL FLOOR PLANS
 1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

PERMIT RESUBMITTAL

PROJECT NO. : 22-033
 DRAWN BY : JAE
 ISSUE DATE : 8-29-2023
 LATEST REV. :
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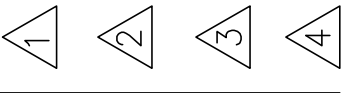




ELECTRICAL NOTES:

- 1 DISPOSAL CONNECTION. PROVIDE CONTROL SWITCH ABOVE COUNTER FOR ON/OFF CONTROL OF DISPOSAL.
- 2 TANKLESS HOT WATER HEATER CONNECTION. UNIT PROVIDED WITH DUAL CONNECTIONS AND SHALL BE CONNECTED TO 50A/2-POLE CIRCUIT BREAKERS IN PANEL UP, CIRCUITS #17,19 AND #21,23.

REVISIONS THIS SHEET



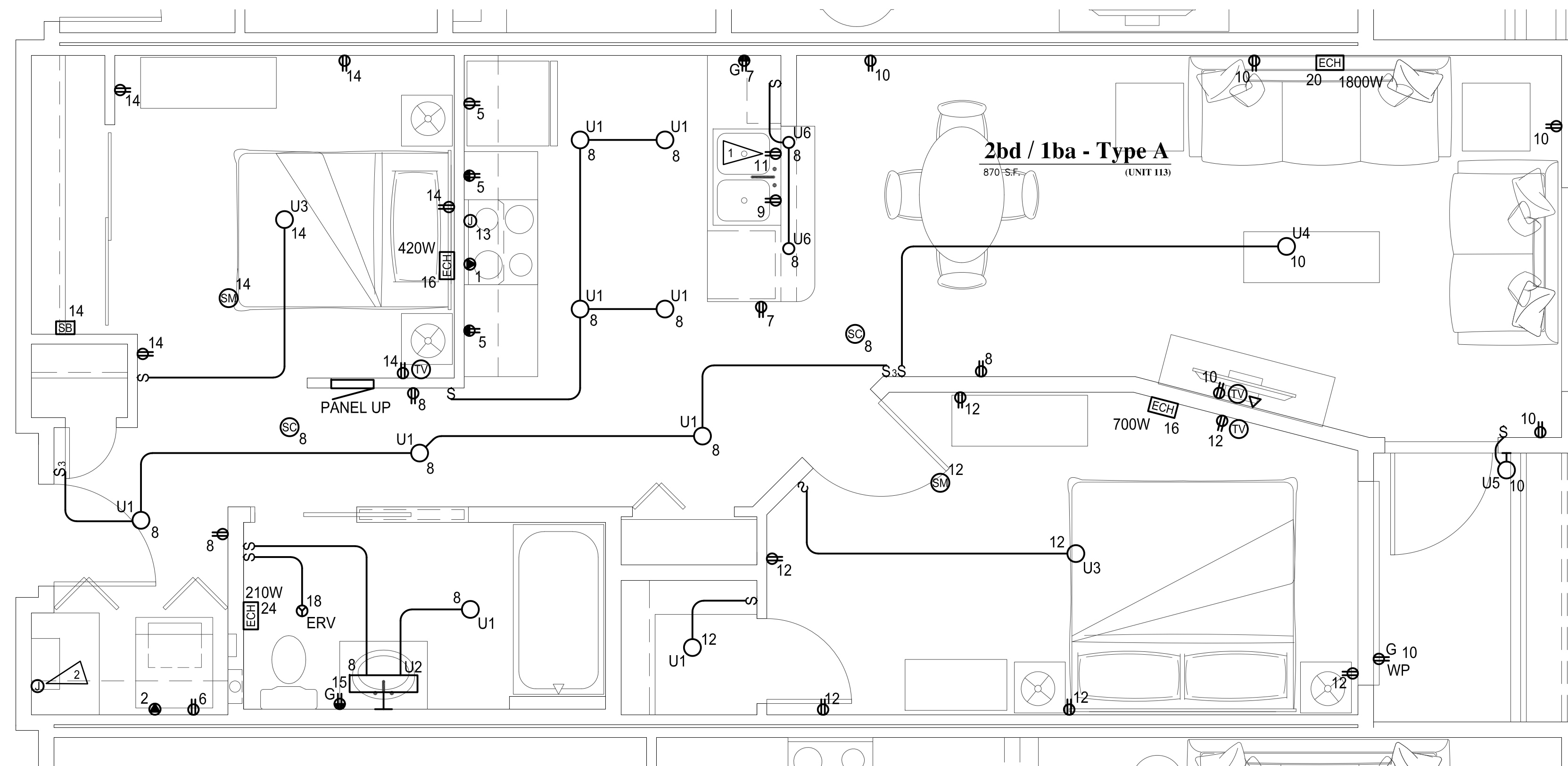
TYPICAL (1) UNIT ONLY

FLUSH MOUNTING 10,000 AIC		PANEL SCHEDULE		120/208 VOLTS 1PHASE 3WIRE 125 AMPS WITH 125 MAIN BREAKER			
NO.	UP	LOCATION: 2-BED/1-BATH TYPE A SERVING: 2-BED/1-BATH TYPE A					
CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS	KVA	LOAD DESCRIPTION	CKT NO.
1	RANGE	8.00	50	30	5.00	DRYER	2
3			2	2			4
5	KITCHEN RECEPTACLES	1.50	20	20	1.50	WASHER	6
7	KITCHEN RECEPTACLES	1.50		15	1.20	LIGHTS/RECEPTACLES	8
9	DISHWASHER	1.00		15	1.20	LIGHTS/RECEPTACLES	10
11	DISPOSAL	.50		15	1.20	BEDROOM LIGHTS/RECEPTS	12
13	MICROWAVE/HOOD	1.20		15	1.20	BEDROOM LIGHTS/RECEPTS	14
15	BATH RECEPTACLE	.36	20	20	1.12	WALL HEATER	16
17	TANKLESS WATER	9.00	50	20	.10	ERV	18
19	HEATER CONN. #1			20	1.80	WALL HEATER	20
21	TANKLESS WATER	9.00	50	2			22
23	HEATER CONN. #2			20	.21	WALL HEATER	24
25	SPACE					SPACE	26
27	SPACE					TVSS	28
29	SPACE						30

REMARKS: .

CONNECTED LOAD: 43.8 KVA 211 AMPS
DEMAND LOAD: 25.4 KVA 122 AMPS

- * PROVIDE DUAL FUNCTION GFI/ARC FAULT CIRCUIT BREAKER.
- ** PROVIDE ARC FAULT CIRCUIT BREAKER.
- *** PROVIDE GFI CIRCUIT BREAKER.



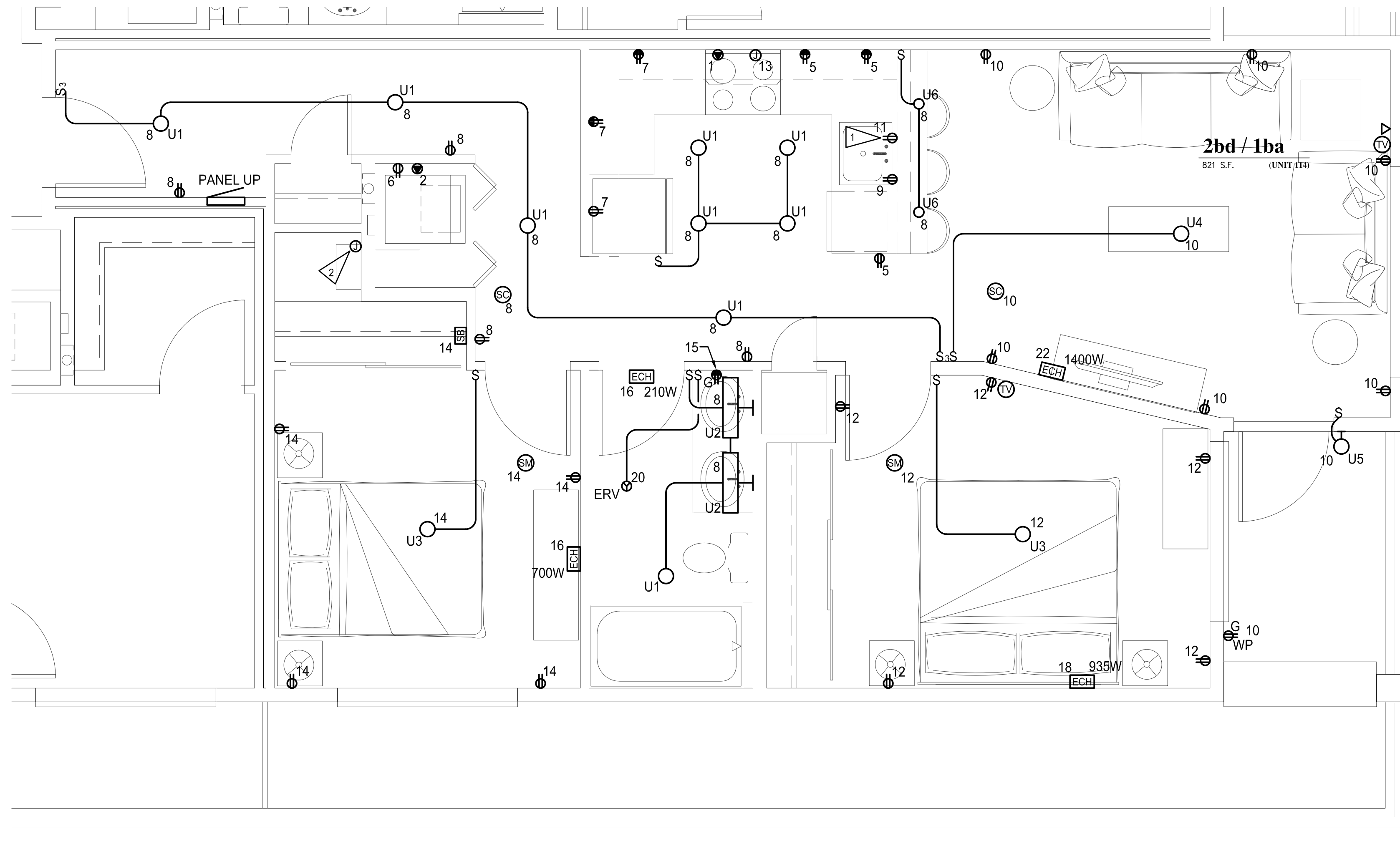
TYPICAL (20) UNITS

FLUSH MOUNTING 10,000 AIC		PANEL SCHEDULE					
UP		LOCATION: 2-BED/1-BATH CORNER SERVING: 2-BED/1-BATH CORNER		120/208 VOLTS 1PHASE 3WIRE 125 AMPS WITH 125 MAIN BREAKER			
CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS	KVA	LOAD DESCRIPTION	CKT NO.
1	RANGE	8.00	50	30	5.00	DRYER	2
3			2	2			4
5	KITCHEN RECEPTACLES	1.50	20	20	1.50	WASHER	6
7	KITCHEN RECEPTACLES	1.50		15	1.20	LIGHTS/RECEPTACLES	8
9	DISHWASHER	1.00		15	1.20	LIGHTS/RECEPTACLES	10
11	DISPOSAL	.50		15	1.20	BEDROOM LIGHTS/RECEPTS	12
13	MICROWAVE/HOOD	1.20		15	1.20	BEDROOM LIGHTS/RECEPTS	14
15	BATH RECEPTACLE	.18	20	20	.91	WALL HEATER(S)	16
17	TANKLESS WATER	9.00	50	20	.94	WALL HEATER	18
19	HEATER CONN. #1		2	20	.10	ERV	20
21	TANKLESS WATER	9.00	50	20	1.40	WALL HEATER	22
23	HEATER CONN. #2		2	2			24
25	SPACE					SPACE	26
27	SPACE					TVSS	28
29	SPACE						30

REMARKS: .

CONNECTED LOAD: 43.8 KVA 211 AMPS
DEMAND LOAD: 25.5 KVA 122 AMPS

- * PROVIDE DUAL FUNCTION GFI/ARC FAULT CIRCUIT BREAKER.
- ** PROVIDE ARC FAULT CIRCUIT BREAKER.
- *** PROVIDE GFI CIRCUIT BREAKER.



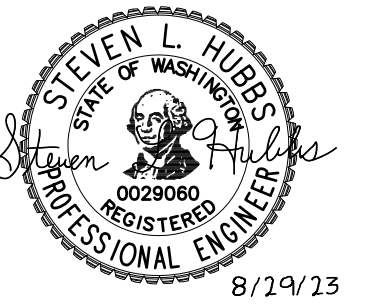
2-BED/1-BATH CORNER UNIT ELECTRICAL PLAN

SCALE: 3/8"=1'-0"

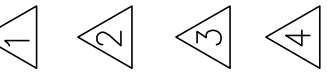
NOTE: TYPICAL UNITS
101,106,109,114,201,206,209,214,301,306,
309,314,401,406,409,414,501,506,509,514

ELECTRICAL NOTES:

- 1 DISPOSAL CONNECTION. PROVIDE CONTROL SWITCH ABOVE COUNTER FOR ON/OFF CONTROL OF DISPOSAL.
- 2 TANKLESS HOT WATER HEATER CONNECTION. UNIT PROVIDED WITH DUAL CONNECTIONS AND SHALL BE CONNECTED TO 50A/2-POLE CIRCUIT BREAKERS IN PANEL UP, CIRCUITS #17,19 AND #21,23.



REVISIONS THIS SHEET



St. Helens Mixed Use
Tacoma, Washington
UNIT ELECTRICAL FLOOR PLANS

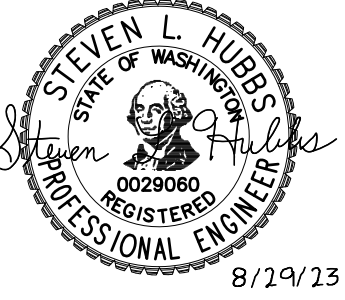
1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

PERMIT RESUBMITTAL

PROJECT NO. : 22-033
DRAWN BY : JAE
ISSUE DATE : 8-29-2023
LATEST REV. :
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"Note for Construction"
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Review

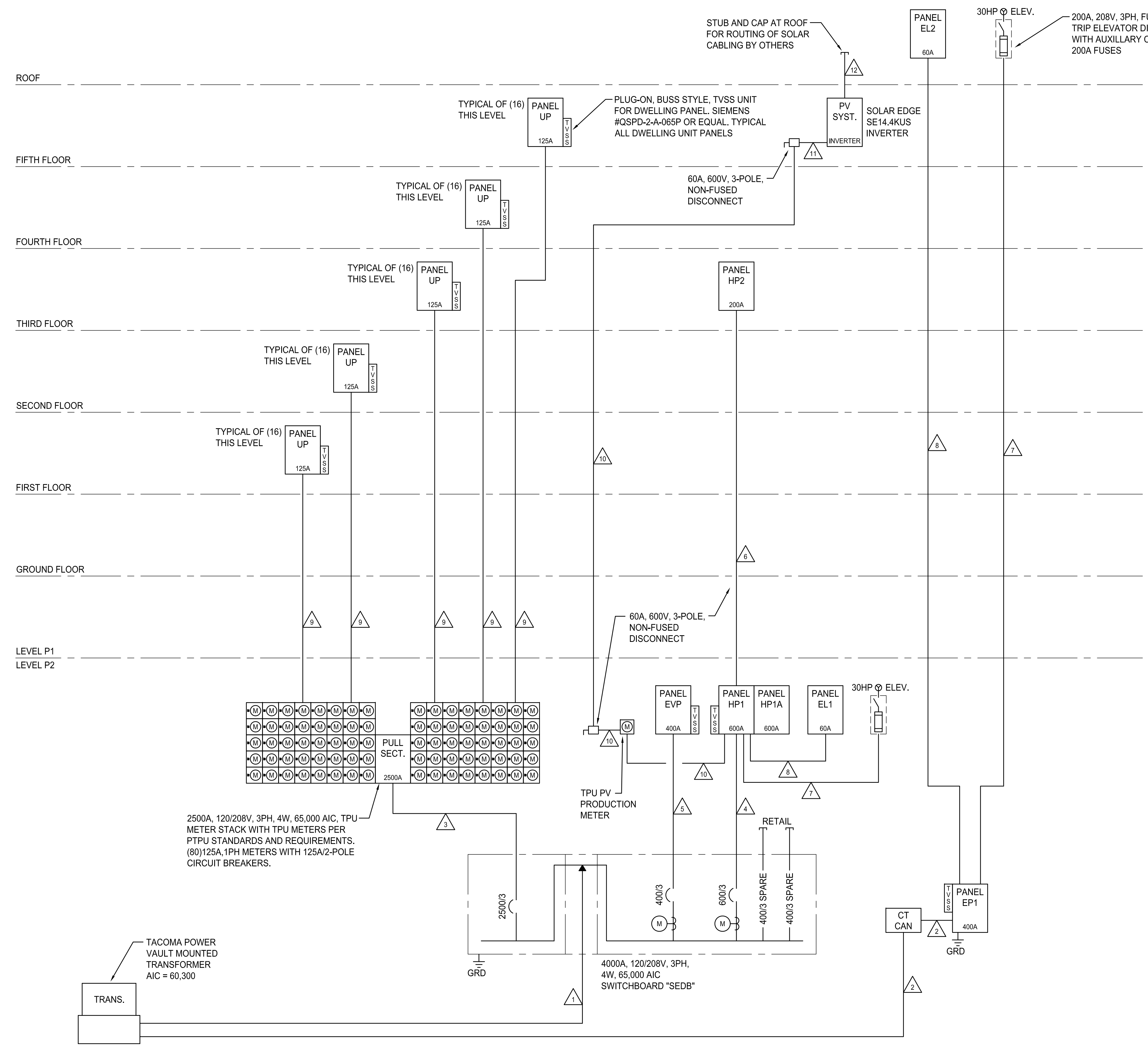
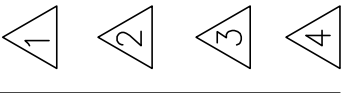




CONDUIT AND CONDUCTOR SCHEDULE:

- 1 (9)4"C-(4)#700 KCM CU EACH
- 2 4"C-(4)#600 KCM CU
- 3 (8)4"C-(4)#600 KCM AL & (1)#600 KCM CU GRD EACH
- 4 (2)4"C-(4)#500 KCM AL & (1)#2/0 AL GRD EACH
- 5 (2)2-1/2"C-(4)#250 KCM AL & (1)#1 AL GRD EACH
- 6 2-1/2"C-(4)#250 KCM AL & (1)#4 AL GRD
- 7 3"C-(3)#350 KCM AL & (1)#2 AL GRD
- 8 1"C-(3)#6 CU & (1)#10 CU GRD
- 9 (3)#2/0 AL & (1)#4 AL GRD (MC CABLE)
- 10 1-1/2"C-(3)#4 CU, (1)#8 CU (NEUTRAL) & (1)#10 CU GRD
- 11 1"C-(3)#6 CU, (1)#8 CU (NEUTRAL) & (1)#10 CU GRD
- 12 (2)1"C-EMPTY WITH PULLSTRINGS

REVISIONS THIS SHEET



POWER RISER DIAGRAM
NO SCALE

PERMIT RESUBMITTAL

St. Helens Mixed Use
Tacoma, Washington
POWER RISER DIAGRAM

1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

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OVERALL SWITCHBOARD "SEDB" LOAD CALCULATIONS

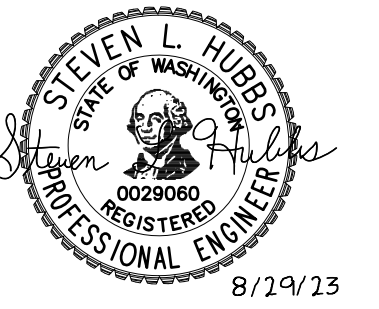
SERVICE	KVA LOAD	FACTOR	NEC REF.	DEMAND LOAD
LIGHTING	10.22	X 1.25	210.19(A)(1)	= 12.78
RECEPTS TO 10KW	10.00	X 1.00	220.44	= 10.00
RECEPTS OVER 10KW	11.96	X 0.50	220.44	= 5.98
MOTORS (LARGEST)	33.84	X 1.25	430.24	= 42.30
MOTORS	48.66	X 1.00	430.24	= 48.66
KITCHEN EQUIP.	-	X 1.00	220.56	= -
EV CHARGERS	79.80	X 1.25		= 99.75
DWELLING UNITS(80)	3398.50	X 0.23	220.50	= 781.66
ELECTRIC HEAT	15.38	X 1.00	220.51	= 15.38
MISCELLANEOUS	27.10	X 1.00		= 27.10
TOTAL CONNECTED	2374.5 KVA		TOTAL DEMAND	1043.6 KVA
	(10,099 AMPS)			(2899 AMPS)

PANEL EP1 LOAD CALCULATIONS

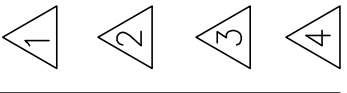
SERVICE	KVA LOAD	FACTOR	NEC REF.	DEMAND LOAD
LIGHTING	.70	X 1.25	210.19(A)(1)	= .88
RECEPTS TO 10KW	.36	X 1.00	220.44	= .36
RECEPTS OVER 10KW	-	X 0.50	220.44	= -
MOTORS (LARGEST)	33.84	X 1.25	430.24	= 42.30
MOTORS	10.79	X 1.00	430.24	= 10.79
KITCHEN EQUIP.	-	X 1.00	220.56	= -
WELDERS	-	X 1.00	630.11(B)	= -
AIR CONDITIONING	-	X 1.00	220.50	= -
ELECTRIC HEAT	-	X 1.00	220.51	= -
MISCELLANEOUS	10.60	X 1.00		= 10.60
TOTAL CONNECTED	56.3 KVA		TOTAL DEMAND	64.9 KVA
	(156 AMPS)			(180 AMPS)

TPU METER STACK LOAD CALCULATION (NEC 220-84)

SERVICE	CONNECTED LOAD
UNIT 1-BED/1-BATH CONNECTED LOAD	41.20 KVA X 20 UNITS = 824.00 KVA
UNIT OPEN 1-BED/1-BATH CONNECTED LOAD	41.90 KVA X 19 UNITS = 796.10 KVA
UNIT 1-BED/1-BATH - TYPE A CONNECTED LOAD	41.60 KVA X 1 UNIT = 41.60 KVA
UNIT 2-BED/1-BATH CONNECTED LOAD	43.00 KVA X 19 UNITS = 817.00 KVA
UNIT 2-BED/1-BATH - TYPE A CONNECTED LOAD	43.80 KVA X 1 UNIT = 43.80 KVA
UNIT 2-BED/1-BATH CORNER CONNECTED LOAD	43.80 KVA X 20 UNITS = 876.00 KVA
TOTAL	= 3398.50 KVA
X 23% PER TABLE 220.84	X .23
TOTAL (DEMAND LOAD)	= 781.66 KVA (2171) @ 120/208V, 3PH



REVISIONS THIS SHEET



St. Helens Mixed Use
 Tacoma, Washington
ELECTRICAL SCHEDULES

1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

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SURFACE MOUNTING 42,000 AIC									
PANEL SCHEDULE					PANEL SCHEDULE				
HP1 LOCATION: LEVEL P2 ELEC. ROOM SERVING: HOUSE LOADS					120/208 VOLTS 3PHASE 4WIRE 600 AMPS WITH MAIN LUGS				
CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS	CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS
1	LIGHTS - LEVEL P2	1.27	20	20	2	RECEPTACLES - LEVEL P2	.72		
3	LIGHTS - STAIR #1/#2	1.46			4				
5	LIGHTS - LEVEL P1	1.51			6				
7	LIGHTS - LEVEL P1/GRD. FLR.	.86			8	RECEPTACLES - LEVEL P2	.72		
9	LIGHTS - GROUND FLOOR	.82			10	RECEPTACLES - LEVEL P1	.72		
11	LIGHTS - 1ST FLOOR	.63			12	RECEPTACLES - LEVEL P1	.72		
13	WALL HEATER(S)	2.50	20	20	14	COVE HEATER	.21		
15					16	GAS CONTROL PANEL - P2	.50		
17	ROLL-UP DOOR - P2	2.50	20	20	18	GAS CONTROL PANEL - P1	.50		
19					20	GAS CTRL. PANEL - GROUND	.50		
21	ROLL-UP DOOR - P2	2.50	20	20	22	WALL HEATER(S)	3.50		
23					24	SPACE			
25	ROLL-UP DOOR - P2	2.50	20	20	26	TRASH COMPACTOR (10HP)	11.59		
27					28				
29	SPACE				30				
31	PANEL HP2	27.30	200	3	32				
33					34	PANEL EL1	4.00		
35					36				
37	ELEVATOR #1 (30HP)	33.84	200	20	38	SPARE			
39					40	SPARE			
41					42	SPARE			
43	SPACE				44	SPACE			
45					46				
47					48				
49					50				
51					52				
53					54	SPACE			
55					56	TVSS			
57					58				
59	SPACE				60				

SURFACE MOUNTING 42,000 AIC									
PANEL SCHEDULE					PANEL SCHEDULE				
HP1A LOCATION: LEVEL P2 - ELEC. ROOM SERVING: HOUSE LOADS					120/208 VOLTS 3PHASE 4WIRE 600 AMPS WITH MAIN LUGS				
CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS	CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS
1	RECEPTACLES - GROUND	.54	20	20	2	FITNESS EQUIPMENT	1.00		
3					4				
5					6				
7					8				
9					10	FITNESS EQUIPMENT	1.00		
11					12	RECEPTACLES - 1ST FLOOR	.72		
13	RECEPTACLES - GROUND	.54			14	RECEPTACLES - 1ST FLOOR	.72		
15	DRINKING FOUNTAIN	.50	20	20	16	RECEPTACLES - 1ST FLOOR	.72		
17	ROLL-UP DOOR	2.50	20	20	18	PACKAGE LOCKER - GRD	1.50		
19					20	EF-4,5,6,7	1.06		
21	DCU-3	1.87	15	20	22	HRU-3	.86		
23					24	DCU-5	3.95		
25	DCU-4	1.87	15	20	26				
27					28	WH-2	9.00		
29	SPACE				30				
31	EF-1	3.96	20	20	32	WH-2	9.00		
33					34				
35					36	SPACE			
37	EF-2	3.96	20	20	38	EF-3	2.48		
39					40				
41					42				

REMARKS: PROVIDE GFI CIRCUIT BREAKER.

SURFACE MOUNTING 10,000 AIC									
PANEL SCHEDULE					PANEL SCHEDULE				
HP2 LOCATION: 3RD FLR. CABLE/PHONE SERVING: HOUSE LOADS					120/208 VOLTS 3PHASE 4WIRE 200 AMPS WITH MAIN LUGS				
CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS	CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS
1	LIGHTS - 2ND/3RD FLOOR	1.26	20	20	2	RECEPTACLES - 2ND FLOOR	.72		
3	LIGHTS - 4TH/5TH FLOOR	1.26			4	RECEPTACLES - 2ND FLOOR	.72		
5	LIGHTS - ROOF	.45			6	RECEPTACLES - 2ND FLOOR	.72		
7	RECEPTACLES - 5TH FLOOR	.72			8	RECEPTACLES - 3RD FLOOR	.72		
9	RECEPTACLES - 5TH FLOOR	.72			10	RECEPTACLES - 3RD FLOOR	.72		
11	RECEPTACLES - 5TH FLOOR	.72			12	RECEPTACLES - 3RD FLOOR	.72		
13	RECEPTACLES - ROOF	.54			14	RECEPTACLES - 4TH FLOOR	.72		
15	RECEPTACLES - ROOF	.54			16	RECEPTACLES - 4TH FLOOR	.72		
17	RECEPTACLES - ROOF	.72	20	20	18	RECEPTACLES - 4TH FLOOR	.72		
19	WALL HEATER	.75	20	20	20	COVE HEATER(S)	.42		
21					22	ERV-3,EF-8	.80		
23	HRU-1	1.60	15	20	24	HRU-2	2.24		
25					26				
27	DH-1	5.00	30	20	28	DH-2	3.00		
29					30				
31	SPACE				32	SPACE			
33					34				
35					36				
37					38				
39					40				
41	SPACE				42	SPACE			

REMARKS: PROVIDE CIRCUIT BREAKER HANDLE LOCK.

SERVICE ENTRANCE RATED SURFACE MOUNTING 42,000 AIC									
PANEL SCHEDULE					PANEL SCHEDULE				
EP1 LOCATION: LEVEL P2 STANDBY RM. SERVING: EQUIPMENT					120/208 VOLTS 3PHASE 4WIRE 400 AMPS WITH 400 MAIN BREAKER				
CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS	CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS
1	ELEVATOR #2 (30HP)	33.84	200	20	2	SF-2	3.96		
3					4				
5					6				
7	SF-1	3.96	20	20	8	PANEL EL2	4.00		
9					10				
11					12	DAS EQUIPMENT	1.50		
13	SMOKE CONTROL PANEL	1.00	20	20	14	DAS EQUIPMENT	1.50		
15	FIRE ALARM PANEL	1.00			16	FIRE/SMOKE DAMP. - P1/P2	.50		
17	FIRE ALARM BATT. CABINETS	1.00			18	FIRE/SMOKE DAMP. - GRD	.50		
19	FIRE ALARM DAMP. - 4TH	.50			20	FIRE/SMOKE DAMP. - 1ST	.50		
21	FIRE ALARM DAMP. - 5TH	.50			22	FIRE/SMOKE DAMP. - 2ND	.50		
23	FIRE ALARM DAMP. - ROOF	.50			24	FIRE/SMOKE DAMP. - 3RD	.50		
25	STAIR #1 - DAMPERS - ROOF	.50			26	SPARE			
27	STAIR #2 - DAMPERS - ROOF	.50			28	SPARE			
29	SPACE				30	SPACE			
31	SPACE				32	SPACE			
33					34	SPACE			
35					36	SPACE			
37					38	SPACE			
39					40	TVSS			
41	SPACE				42				

REMARKS: PROVIDE CIRCUIT BREAKER HANDLE LOCK.

PANEL HP1 LOAD CALCULATIONS

SERVICE	KVA LOAD	FACTOR	NEC REF.	DEMAND LOAD
LIGHTING	10.22	X	1.25	220.19(A)(1) = 12.78
RECEPTS TO 10KW	10.00	X	1.00	220.44 = 10.00
RECEPTS OVER 10KW	11.96	X	0.50	220.44 = 5.98
MOTORS (LARGEST)	33.84	X	1.25	430.24 = 42.30
MOTORS	48.66	X	1.00	430.24 = 48.66
KITCHEN EQUIP.	-	X	1.00	220.56 = -
WELDERS	-	X	1.00	630.11(B) = -
AIR CONDITIONING	-	X	1.00	220.50 = -
ELECTRIC HEAT	15.38	X	1.00	220.51 = 15.38
MISCELLANEOUS	27.10	X	1.00	220.51 = 27.10
TOTAL CONNECTED	157.2 KVA			162.2 KVA
	(437 AMPS)			(451 AMPS)

PANEL HP1A LOAD CALCULATIONS

SERVICE	KVA LOAD	FACTOR	NEC REF.	DEMAND LOAD
LIGHTING	-	X	1.25	220.19(A)(1) = -
RECEPTS TO 10KW	6.84	X	1.00	220.44 = 6.84
RECEPTS OVER 10KW	-	X	0.50	220.44 = -
MOTORS (LARGEST)	3.96	X	1.25	430.24 = 4.95
MOTORS	18.55	X	1.00	430.24 = 18.55
KITCHEN EQUIP.	-	X	1.00	220.56 = -
WELDERS	-	X	1.00	630.11(B) = -
AIR CONDITIONING	-	X	1.00	220.50 = -
ELECTRIC HEAT	-	X	1.00	220.51 = -
MISCELLANEOUS	25.00	X	1.00	220.51 = 25.00
TOTAL CONNECTED	54.4 KVA			55.3 KVA
	(151 AMPS)			(154 AMPS)

PANEL HP2 LOAD CALCULATIONS

SERVICE	KVA LOAD	FACTOR	NEC REF.	DEMAND LOAD
LIGHTING	2.97	X	1.25	220.19(A)(1) = 3.71
RECEPTS TO 10KW	10.00	X	1.00	220.44 = 10.00
RECEPTS OVER 10KW	.44	X	0.50	220.44 = .22
MOTORS (LARGEST)	2.24	X	1.25	430.24 = 2.80
MOTORS	2.45	X	1.00	430.24 = 2.45
KITCHEN EQUIP.	-	X	1.00	220.56 = -
WELDERS	-	X	1.00	630.11(B) = -
AIR CONDITIONING	-	X	1.00	220.50 = -
ELECTRIC HEAT	9.17	X	1.00	220.51 = 9.17
MISCELLANEOUS	-	X	1.00	220.51 = -
TOTAL CONNECTED	27.3 KVA			28.4 KVA
	(76 AMPS)			(79 AMPS)

PANEL EP1 LOAD CALCULATIONS

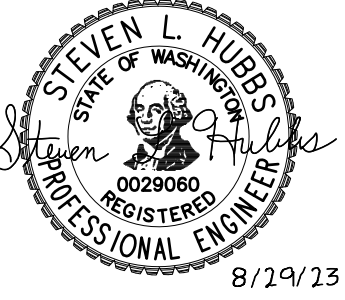
SERVICE	KVA LOAD	FACTOR	NEC REF.	DEMAND LOAD
LIGHTING	.70	X	1.25	220.19(A)(1) = .88
RECEPTS TO 10KW	.36	X	1.00	220.44 = .36
RECEPTS OVER 10KW	-	X	0.50	220.44 = -
MOTORS (LARGEST)	33.84	X	1.25	430.24 = 42.30
MOTORS	10.79	X	1.00	430.24 = 10.79
KITCHEN EQUIP.	-	X	1.00	220.56 = -
WELDERS	-	X	1.00	630.11(B) = -
AIR CONDITIONING	-	X	1.00	220.50 = -
ELECTRIC HEAT	-	X	1.00	220.51 = -
MISCELLANEOUS	10.60	X	1.00	220.51 = 10.60
TOTAL CONNECTED	56.3 KVA			64.9 KVA
	(156 AMPS)			(180 AMPS)

SURFACE MOUNTING 22,000 AIC									
PANEL SCHEDULE					PANEL SCHEDULE				
EVP LOCATION: LEVEL P2 ELEC. ROOM SERVING: EV CHARGERS					120/208 VOLTS 3PHASE 4WIRE 400 AMPS WITH MAIN LUGS				
CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS	CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS
1	EV CHARGER - P2	6.65	40	40	2	EV CHARGER - P1	6.65		
3					4				
5	EV CHARGER - P2	6.65	40	40	6	EV CHARGER - P1	6.65		
7					8				
9	EV CHARGER - P2	6.65	40	40	10	EV CHARGER - P1	6.65		
11					12				
13	EV CHARGER - P2	6.65	40	40	14	EV CHARGER - P1	6.65		
15					16				
17	EV CHARGER - GROUND	6.65	40	40	18	EV CHARGER - GROUND	6.65		
19					20				
21	EV CHARGER - GROUND	6.65	40	40	22	EV CHARGER - GROUND	6.65		
23					24				
25	SPACE				26	SPACE			
27					28				
29	SPACE				30	SPACE			
31					32				
33	SPACE				34	SPACE			
35					36	SPACE			
37					38	TVSS			
39					40				
41	SPACE				42				

REMARKS: PROVIDE CIRCUIT BREAKER HANDLE LOCK.

PANEL EVP LOAD CALCULATIONS

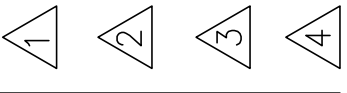
SERVICE	KVA LOAD	FACTOR	NEC REF.	DEMAND LOAD
LIGHTING	-	X	1.25	220.19(A)(1) = -
RECEPTS TO 10KW	-	X	1.00	220.44 = -
RECEPTS OVER 10KW	-	X	0.50	220.44 = -
MOTORS (LARGEST)	-	X	1.25	430.24 = -
MOTORS	-	X	1.00	430.24 = -
KITCHEN EQUIP.	-	X	1.00	220.56 = -
EV CHARGERS	79.80	X	1.25	430.24 = 99.75
AIR CONDITIONING				



GENERAL NOTES:

1. FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM (DESIGN AND INSTALLATION). CONTRACTORS SELECTED FIRE ALARM SUB CONTRACTOR SHALL PROVIDE COMPLETE FIRE ALARM SHOP DRAWINGS IDENTIFYING ALL DEVICES, WIRING, BATTERY CALCULATIONS, ETC. TO PROVIDE A COMPLETE SYSTEM FOR REVIEW AND APPROVAL BY AHJ PRIOR TO START OF INSTALLATION. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL, CIVIL AND MECHANICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS RELATED TO FIRE SPRINKLER INTERFACE AND STAIRWELL PRESSURIZATION EQUIPMENT CONNECTIONS AND CONTROLS.

REVISIONS THIS SHEET

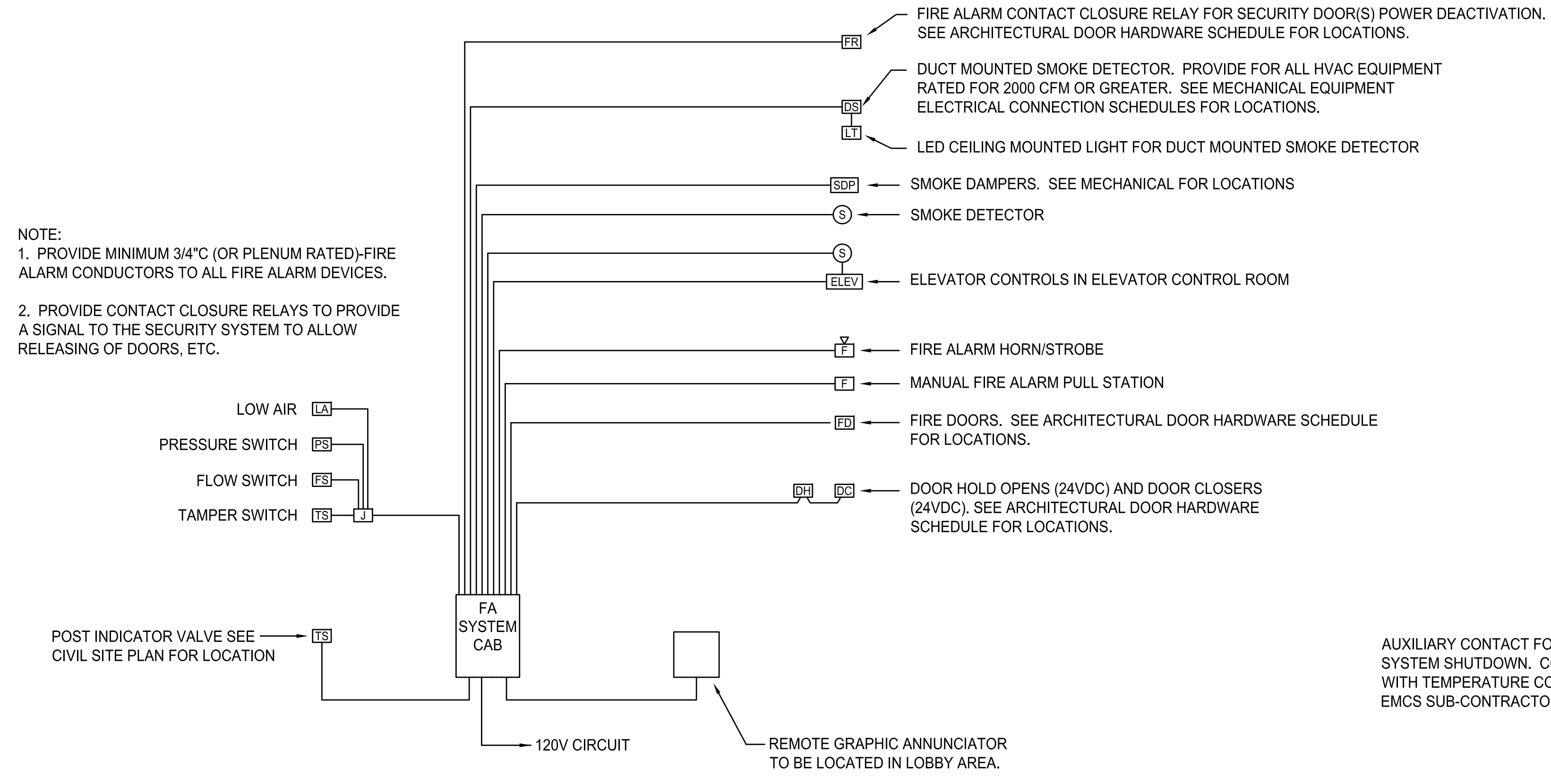


St. Helens Mixed Use
 Tacoma, Washington
ELECTRICAL DETAILS
 1 N. Tacoma Ave. Suite 201 Tacoma, Washington 98403 (253) 584-5207

PERMIT RESUBMITTAL

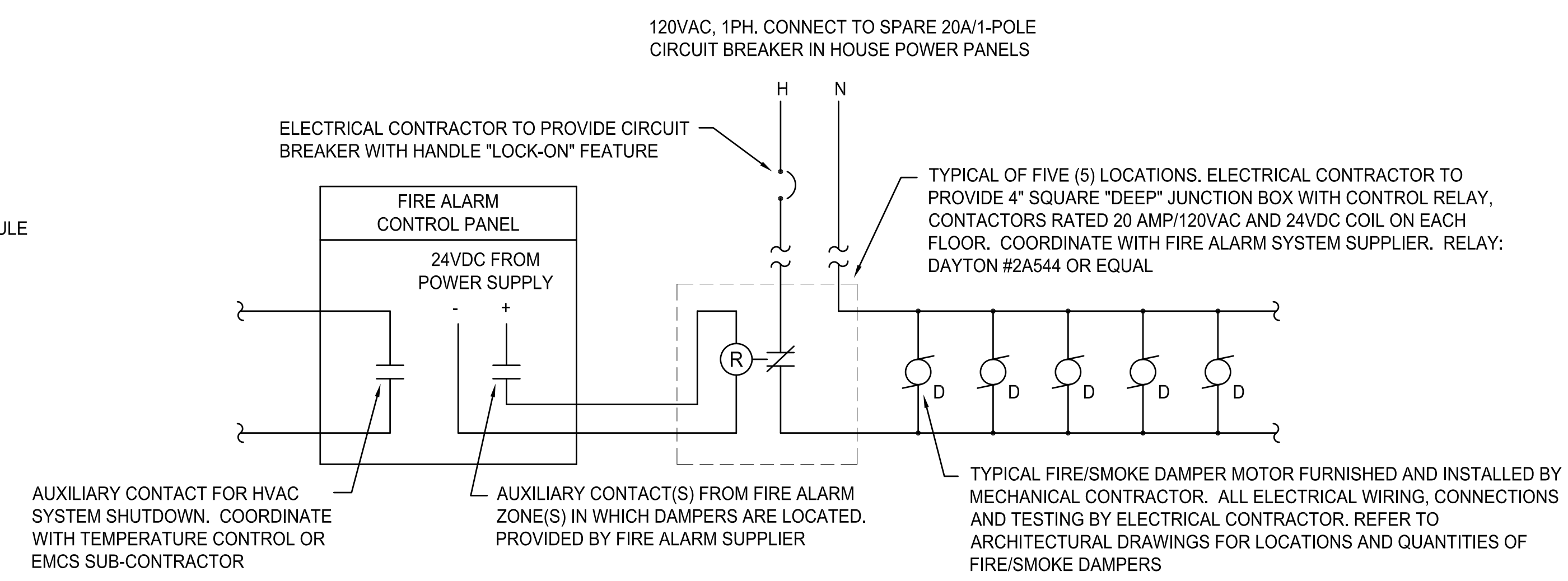
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NOTE:
 1. PROVIDE MINIMUM 3/4" (OR PLENUM RATED)-FIRE ALARM CONDUCTORS TO ALL FIRE ALARM DEVICES.
 2. PROVIDE CONTACT CLOSURE RELAYS TO PROVIDE A SIGNAL TO THE SECURITY SYSTEM TO ALLOW RELEASING OF DOORS, ETC.

A FIRE ALARM RISER DIAGRAM
E6.0 NO SCALE



B FIRE/SMOKE DAMPER CONTROL DIAGRAM
E6.0 NO SCALE