KING COUNTY HOUSING AUTHORITY REQUEST FOR PROPOSALS WEATHERIZATION REPAIR PROJECTS

ADDENDUM #2 ANDREW'S HEIGHTS APARTMENTS MECHANICAL AND ELECTRICAL WORK

Effective 5/2/2023, this Addendum #2 shall be considered part of the Request for Proposal Documents.

Responses to Questions /Corrections:

Included within this Addendum:

- Picture of the electrical panel
- Plans with electrical schematic
- Sketchup with equipment placement





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ELECTRICAL SYMBOL SCHEDULE

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LIGHTING

	FLUORESCENT FIXTURE, (SUBSCRIPT INDICATES SWITCHING CONTROL).
	FLUORESCENT STRIP FIXTURE
0	SURFACE MOUNTED FIXTURE
	WALL MOUNTED FLUORESCENT FIXTURE
Ō	WALL MOUNTED FIXTURE
Ø	RECESSED DOWNLIGHT.
O>	SITE FIXTURE MOUNTED AT GRADE
	EMERGENCY LIGHT FIXTURE WITH BATTERY BACKUP
\otimes	EXIT SIGN - DIRECTIONAL ARROWS AS INDICATED
]0	LIGHTING STANDARD - FIXTURE(S), POLE & BASE
×××	LIGHT FIXTURE TYPE DESIGNATION $X = TYPE$ (SEE FIXTURE LIST)
\$@)	SMTCH — SINGLE POLE (SUBSCRIPTS a,b, etc., DENOTES FIXTURE CONTROLLED)
\$3	3 WAY SWITCH
\$4	4 WAY SWITCH
Ф	DIMMER
E	PROVIDE EMERGENCY BALLAST SEE FIXTURE SCHEDULE.
	FLECTRICAL RISER

ELECTRICAL RISER TRANSFORMER SOLID STATE METER

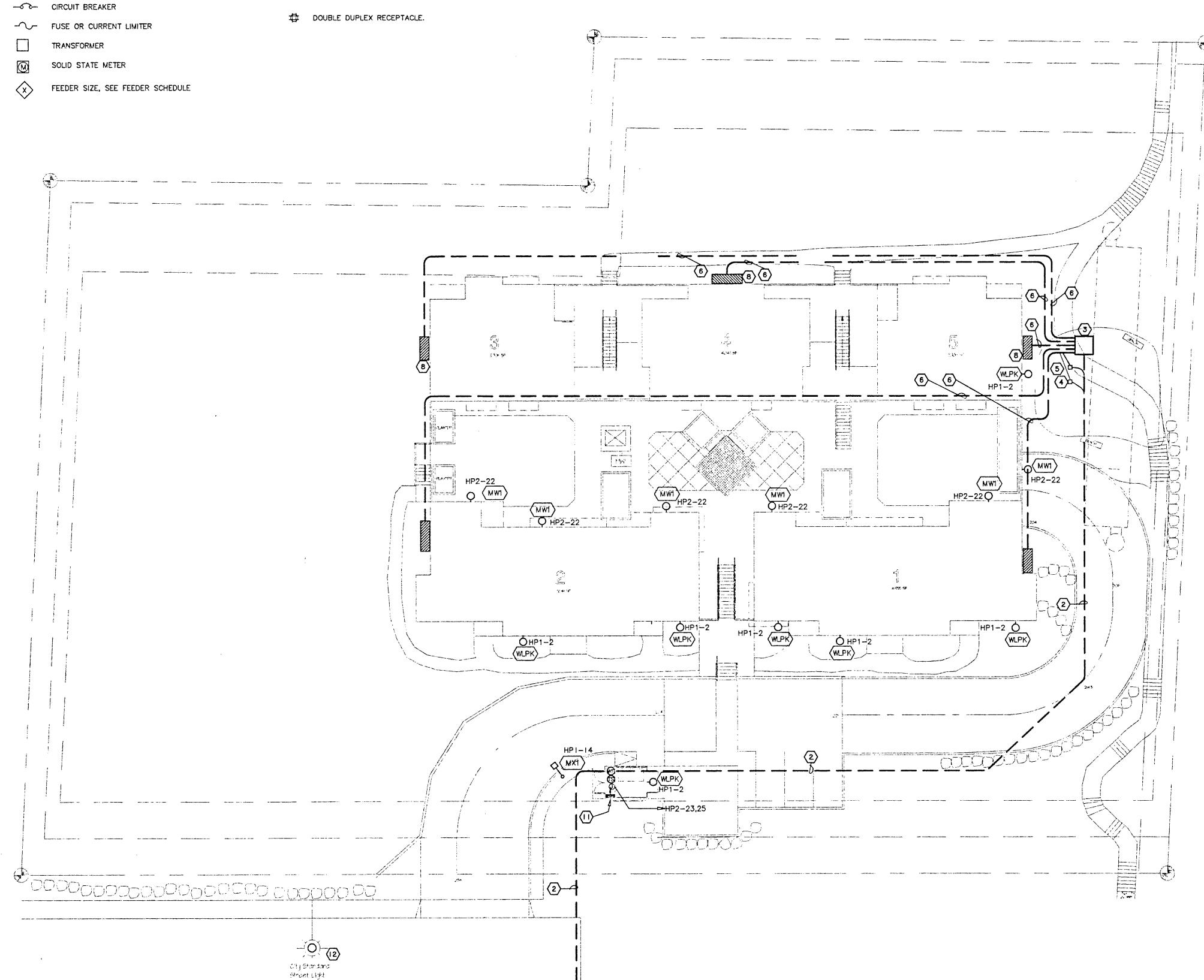
	EQUIPMENT		COMMUNICATIONS		ABBREVIATIONS	5	
		b	TELEPHONE OUT ET	AFF	ABOVE FINISHED FLOOR	MDP	MAIN DISTRIBUTION PANEL
	BRANCH CIRCUIT PANEL	b ch		AG	ABOVE GRADE	TYP	TYPICAL
P	TELEPHONE TERMINAL BOARD (TTB)			A, AMP	ANPERE	v	VOLT
Θ	SPECIAL PURPOSE RECEPTACLE.		FIRE ALARM	ATS	AUTOMATIC TRANSFER SWITCH	VP	VANDAL PROOF
		F	MANUAL PULL STATION MOUNT AT 48" A.F.F.	AWG	AMERICAN WRE GAGE	w	WIRE OR WATT
Ò	MOTOR CONNECTION.	S	SMOKE DETECTOR	СВ	CIRCUIT BREAKER	WP	WEATHERPROOF
XXX	MECHANICAL EQUIPMENT (SEE SCHEDULE).	Ĥ,	HEAT DETECTOR	EWC	ELECTRIC WATER COOLER	0	PHASE
XXX/		_		FA	FIRE ALARM	U.N.O.	UNLESS NOTED OTHERWSE
L L	DISCONNECT SWITCH	-	SPRINKLER TAMPER SWITCH	FBOIC	FURNISHED BY OTHERS INSTALLED BY CONTRACTOR		
T	EXTERIOR LIGHTING CONTROL - SEE DETAIL	FS	SPRINKLER FLOW SWITCH CONNECTION	GN	GROUND		
		(PV)	SPRINKLER POST INDICATOR VALVE	GFIC	GROUND FAULT CIRCUIT INTERRUPTER		
æ	PHOTO CONTROL	-	Image: Second state of the				
	PUSH BUTTON CONTROL STATION	PS	PRESSURE SWITCH CONNECTION	IH	INSTANT HOT WATER		
$\langle \mathbf{x} \rangle$	INDICATES NOTES THIS SHEET.	FACP	FIRE ALARM CONTROL PANEL	J-BOX	JUNCTION BOX MOTOR CONTROL CENTER		
	MDP	Ē⊲	FIRE ALARM HORN/STROBE COMBINATION. MOUNT AT 80" A.F.F.	MCC	MOTOR CONTROL CENTER		
	ELECTRIC HEATER, SEE SPECIFICATIONS.			N	NEUTRAL		
6	ELECTRIC MERIER, SEE SECONDATIONS.			NIC	NOT IN CONTRACT		
\bigcirc	THERMOSTAT	DH	FIRE ALARM DOOR RELEASE MECHANISM	PNL	PANEL		
С	DOORBELL CHIME	ANN	FIRE ALARM ANNUNCIATOR	R	RACEWAY		
D	DOORBELL TRANSFORMER			RO	RACEWAY ONLY		
				RECEPT	RECEPTACLE		
				SPECS	SPECIFICATIONS		
	RECEPTACLES			SW	SMTCH		

SWBD

SWITCHBOARD

- · ·

DUPLEX RECEPTACLE.



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

GENERAL NOTES

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- I. THE CONTRACTOR SHALL NOT SCALE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND EXACT LOCATIONS.
- 2. THE CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO STARTING ANY EXCAVATION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 3. BEFORE SUBMITTING A BID, THE CONTRACTOR MUST VISIT THE SITE AND REVIEW THE CONDITIONS THAT AFFECT THE WORK SHOWN.
- 4. THE CONTRACTOR PROVIDES ALL TRENCHING, BACKFILL, EXCAVATION, SAW CUTTING, AND PATCHING AS REQUIRED.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR ALL COST LEVIED TO THE PROJECT BY THE SERVING UTILITIES AND OTHERS FOR THE COMPLETE INSTALLATION OF ELECTRICAL, TELEVISION, AND TELEPHONE SERVICE. THE CONTRACTOR IS RESPONSIBLE FOR FINAL COORDINATION OF ALL UTILITIES.
- 6. ALL WIRING IS TO BE SIZED TO BRANCH CIRCUIT DEVICE.
- 7. MAJORITY OF COMPONENTS AND DEVICES FOR FIRE ALARM SYSTEM ARE SHOWN FOR CONTRACTOR CONVENIENCE. PROVIDE ADDITIONAL DEVICES AS REQUIRED BY LOCAL CODE AUTHORITIES HAVING JURISDICTION.

NOTES THIS SHEET

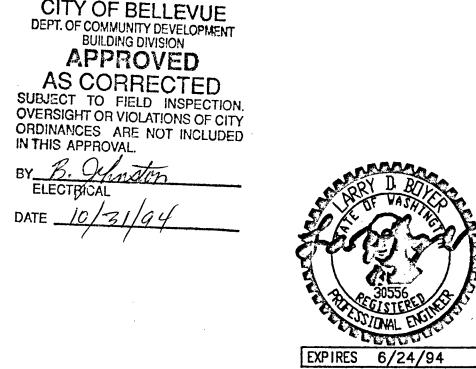
- UTILITY CONNECTION, TERMINATE PER UTILITY REQUIREMENTS. VERIFY EXACT LOCATION WITH UTILITY.
- 2 PRIMARY CONDUITS, ONE 4" FOR TELEPHONE, ONE 2" FOR TELEVISION, ONE 4" FOR ELECTRICAL PRIMARY ALL PER UTILITY REQUIREMENTS. TERMINATE CONDUITS AS REQUIRED BY SERVING UTILITY.
- PSP&L TRANSFORMER, PROVIDE TRANSFORMER PAD AND OR VAULT AS REQUIRED. PROVIDE GUARD POST PER PSP&L STANDARDS. TERMINATE CONDUITS PER UTILITY REQUIREMENTS.
- CATV JUNCTION PEDESTAL BY UTILITY. TERMINATE CONDUITS PER UTILITY REQUIREMENTS.
- 5 TELEPHONE PEDESTAL BY TELCO. TERMINATE CONDUITS PER UTILITY
- REQUIREMENTS.
- 6 PROVIDE THREE CONDUITS, ONE I" FOR TELEPHONE, ONE I" FOR TELEVISION, AND CONDUIT FOR ELECTRICAL SECONDARY, SEE RISER DIAGRAM FOR SIZES.
- (7) GROUND MOUNTED FIXTURE. FIELD AIM AS DIRECTED. SEE DETAIL SHEET E4-2. (8) METER ENCLOSURE. SEE ELEVATION SHEET E4-1. VERIFY EXACT LOCATION AND
- REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
- 9 SEE EXTERIOR LIGHTING CONTROL DETAIL FOR ALL EXTERIOR LIGHTING FIXTURES.
- (10) ALL FIXTURES MXI U.N.O.
- (I) PROVIDE 500W ELECTRIC SUMP HOUSE HEATER, RAYWALL RPHI-5A SERIES CONNECT TO CIRCUIT HPI-16.
- (2) CITY OWNED STREET LIGHT(S). CONTRACTOR TO PROVIDE ALL TRENCHING, CONDUIT, WIRE, POLES AND FIXTURES PER CITY REQUIREMENTS. CONTRACTOR TO COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH CITY PRIOR TO BEGINING WORK.

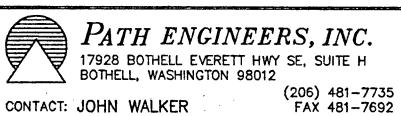


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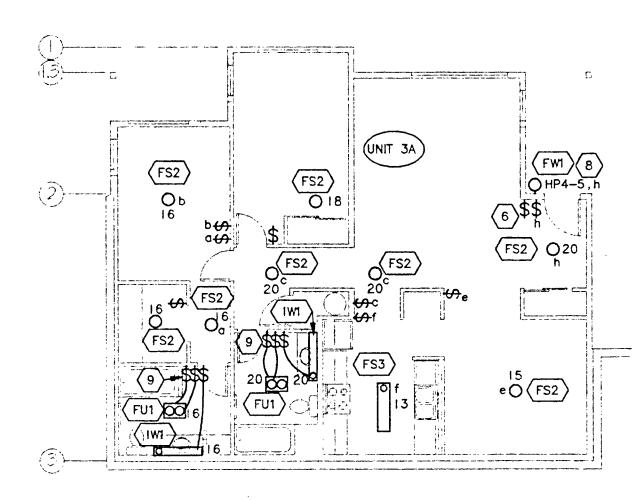




٠ G GGLO Architecture and Interior Design 1008 Western Avenue, Suite 402 Seattle, Washington 98104-1032 Phone: (206) 467-5828 Fax: (206) 467-0627 ANDREW'S HEIGHTS BELLEVUE WASHINGTON for ST. ANDREW'S HOUSING GROUP DRAWING ISSUES 2A BID 3/16/94 REVISION 9/23/94 CAD FILE: EI-1 LAST UPDATE: 5/16/94 PLOT DATE: 5/15/94 PROJECT NO. 93015 DRAWING TITLE *t* SITE PLAN SCALE: 1/16" = 1'-0' SHEET NO. **f** .

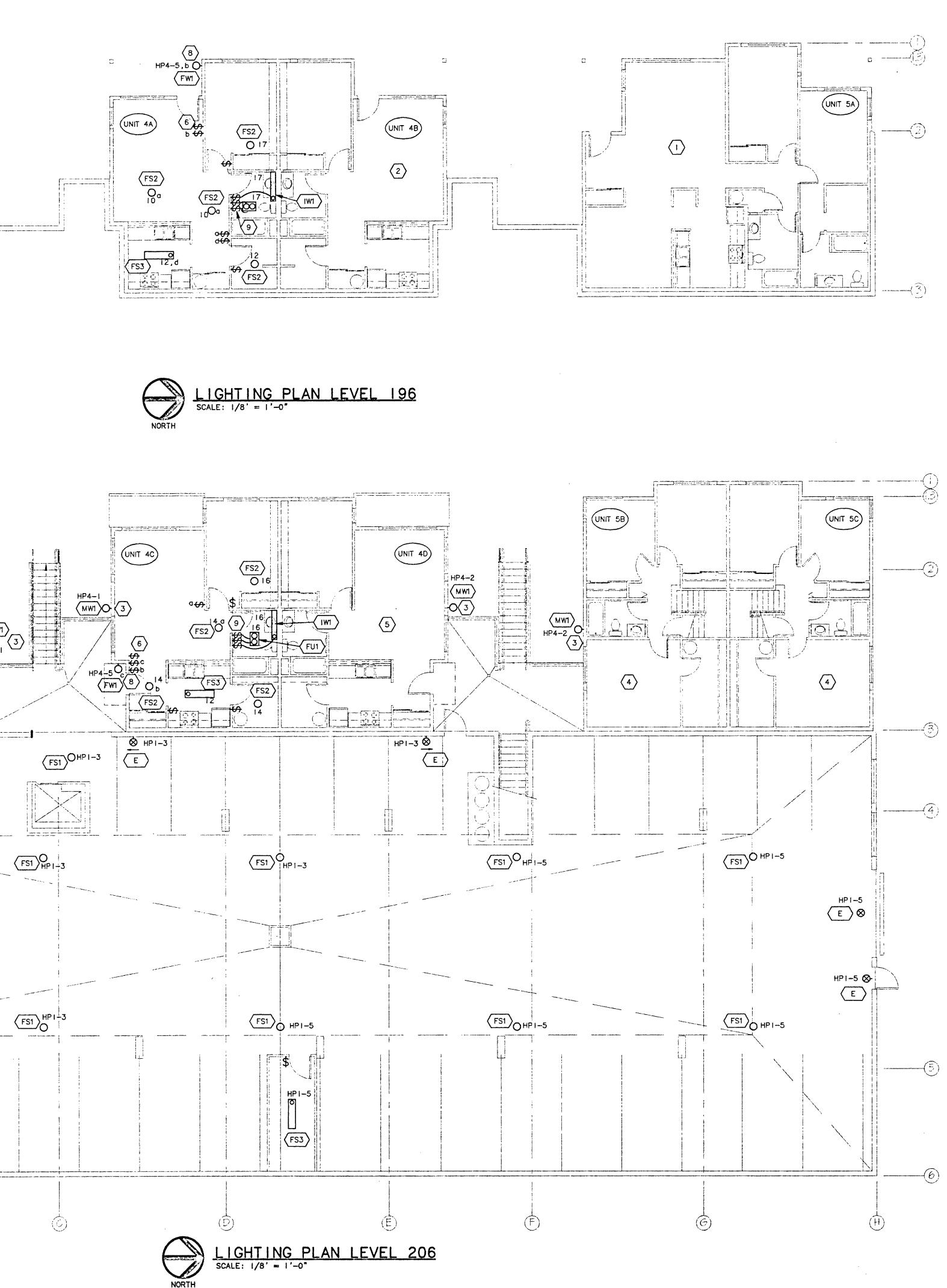
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1.3)-----<u>p=====___</u> UNIT 3C (UNIT 3B) (2)-----(MW1) $\langle \mathbf{4} \rangle$ 020 (FS2) FS2 HPI-3 (FS4) $\langle FS1 \rangle^{OHPI-3}$ (FSI) HPI-3 (5)

(b) -



NOTES THIS SHEET

- (1) SEE UNIT 3A FOR TYPICAL LIGHTING LAYOUT, CIRCUITS AND NOTES.
- $\langle 2 \rangle$ SEE UNIT 4A FOR TYPICAL LIGHTING LAYOUT, CIRCUITS AND NOTES.
- 3 SEE EXTERIOR LIGHTING CONTROL DETAIL ON SHEET E4.2 FOR CONTROL OF EXTERIOR LIGHTS.
- $\langle 4 \rangle$ SEE UNIT 3B FOR TYPICAL LIGHTING LAYOUT, CIRCUITS AND NOTES.
- $\langle 5 \rangle$ SEE UNIT 4C FOR TYPICAL LIGHTING LAYOUT, CIRCUITS AND NOTES.
- 6 SWITCH TO CONTROL UPPER OUTLET OF DUPLEX RECEPTACLES AS INDICATED ON CORRESPONDING POWER PLAN.
- $\overline{7}$ NOT USED.
- $\left< 8 \right>$ FIXTURE TO BE SWITCHED IN SERIES WITH TIME CLOCK.
- (9) I-60 MIN. ROTARY TIME SWITCH EQUAL TO PARAGON SWD60MH-W 4988-13102 SERIES. PROVIDE COMPLETE CONNECTION TO BATHROOM EXHAUST FAN.

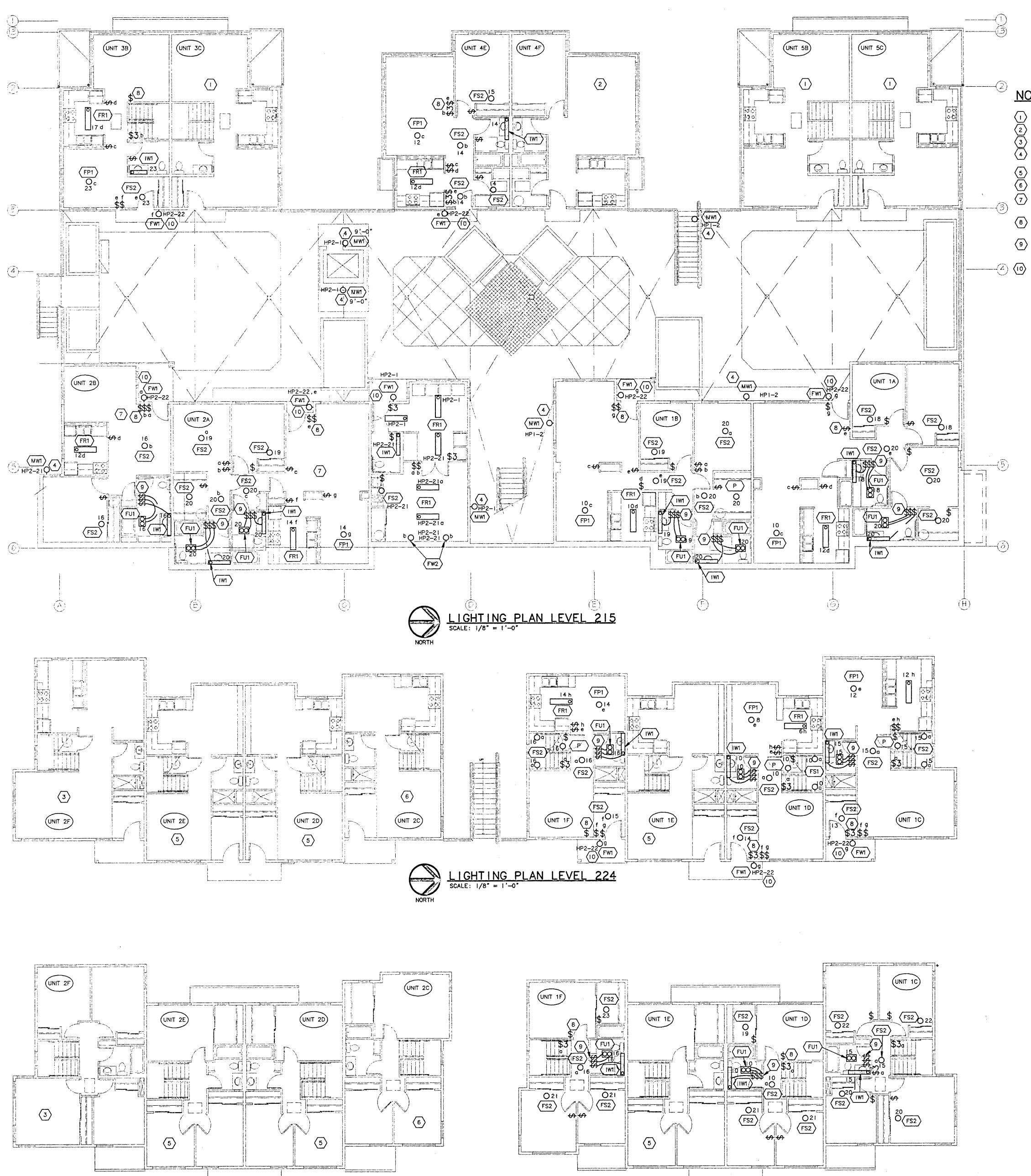
ADDOA EXPIRES 6/24/94 PATH ENGINEERS, INC. 17928 BOTHELL EVERETT HWY SE, SUITE H BOTHELL, WASHINGTON 98012

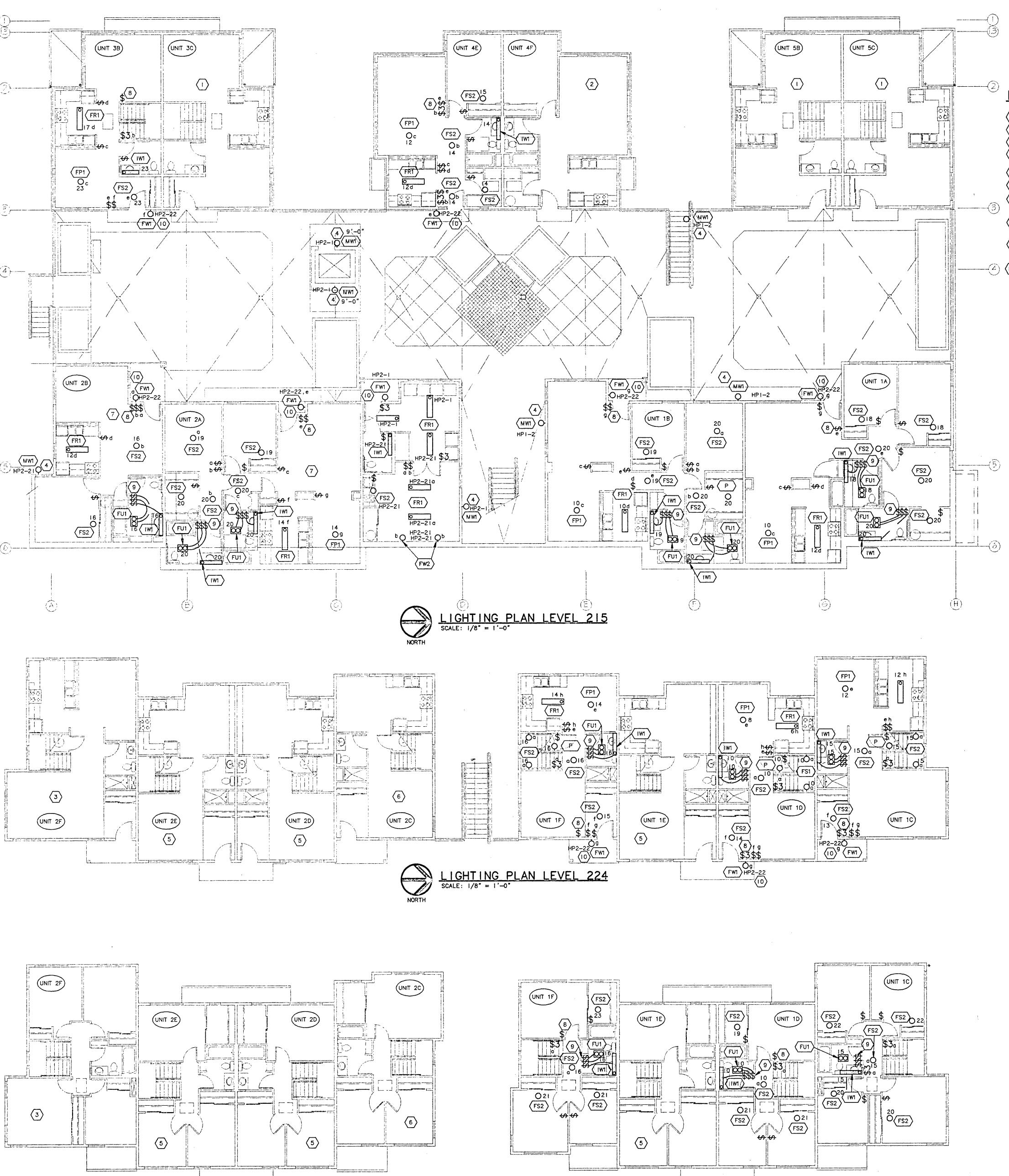
CONTACT: JOHN WALKER

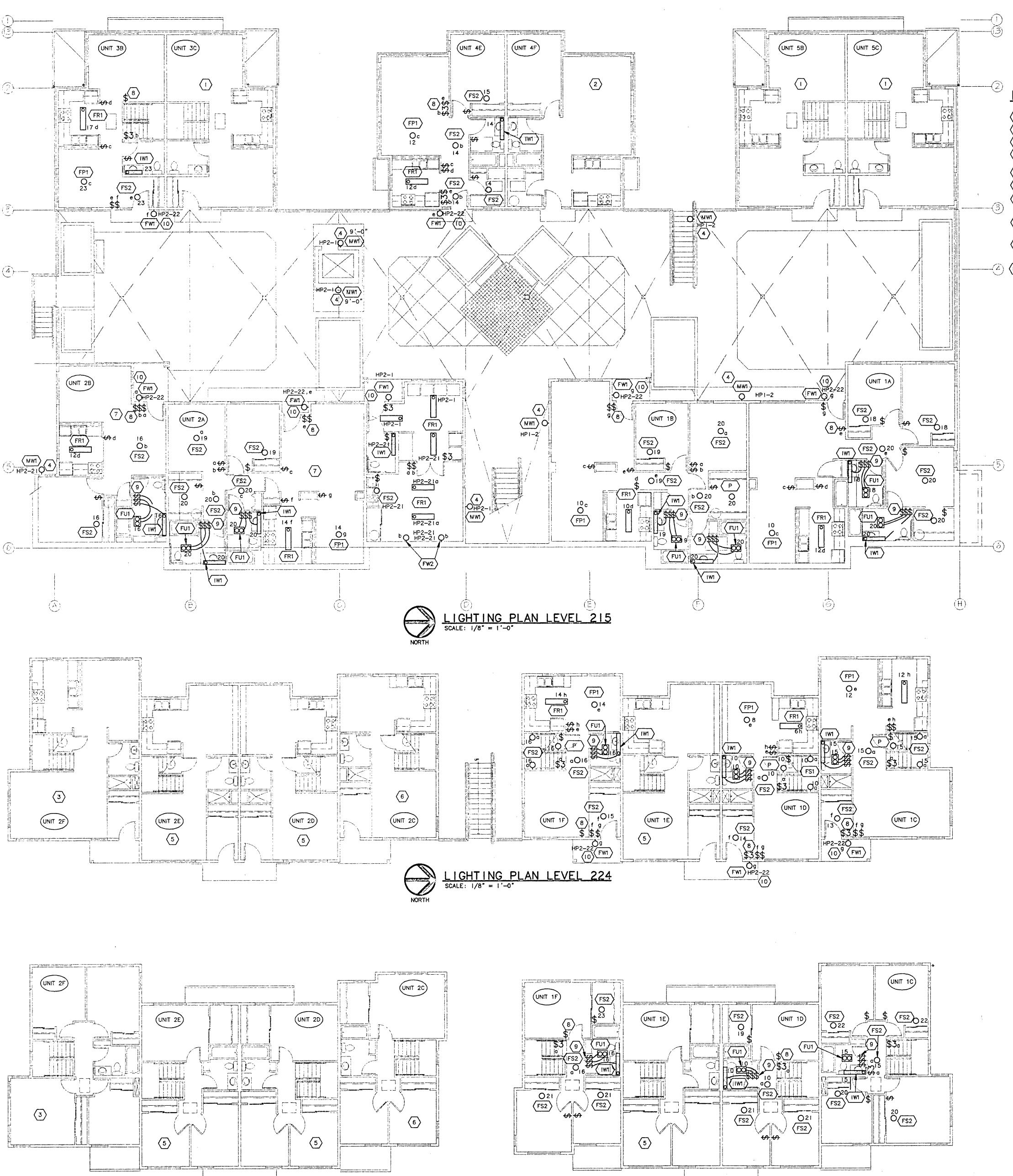
G G O the second s GGLO Architecture and Interior Design 1008 Western Avenue, Suite 402 Seattle, Washington 98104–1032 Phone: (206) 467-5828 Fax: (206) 467-0627 ANDREW'S HEIGHTS BELLEVUE WASHINGTON for ST. ANDREW'S HOUSING GROUP DRAWING ISSUES BID 5/16/94 PERMIT REV. 9/12/94 CAD FILE: E2-1 LAST UPDATE: 5/16/94 PLOT DATE: 5/15/94 PROJECT NO. 93015 DRAWING TITLE RECEVED ELECTRICAL IGHTING OCT PLAN PERMIT PROCESSING SCALE: 1/8" = 1'-0" RECEIVED SHEET NO. OCT 6 1994 E2 PERMIT PROCESSING (206) 481–7735 FAX 481–7692 المحتجر والأهوار ومنتقر أأقرأ والرائم أراري أردوا والمتراري والمراجون · • • • • `

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NORTH

LIGHTING PLAN LEVEL 233 SCALE: 1/8" = 1'-0"

NOTES THIS SHEET

SEE UNIT 3B FOR TYPICAL LIGHTING LAYOUT, CIRCUITS AND NOTES. 4E FOR TYPICAL LIGHTING LAYOUT, CIRCUITS AND NOTES. SEE UNIT SEE UNIT IC FOR TYPICAL LIGHTING LAYOUT, CIRCUITS AND NOTES. SEE EXTERIOR LIGHTING CONTROL DETAIL ON SHEET E4.2 FOR CONTROL OF EXTERIOR FIXTURES. SEE UNIT ID FOR TYPICAL LIGHTING LAYOUT, CIRCUITS AND NOTES. SEE UNIT IF FOR TYPICAL LIGHTING LAYOUT, CIRCUITS AND NOTES. SWITCHES TO BE 48" WHERE PARALELL H.C. ACCESS IS AVAILIBLE 36" WHERE IT IS NOT. 8 SWITCH TO CONTROL UPPER OUTLET OF DUPLEX RECEPTACLES AS INDICATED ON CORRESPONDING POWER PLAN.

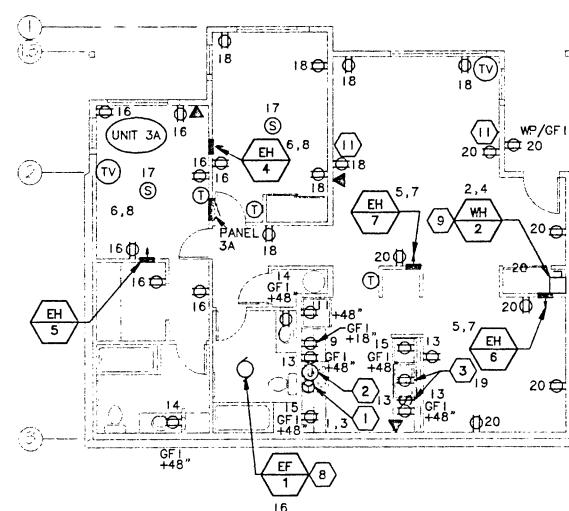
9 I TO 60 MIN. ROTARY TIME SWITCH EQUAL TO PARAGON SWD60MH-W 4988-13102 SERIES PROVIDE COMPLETE CONNECTION TO BATHROOM EXHAUST FAN.

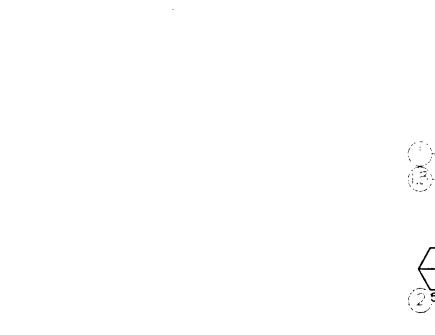
EXPIRES 6/24/94



PATH ENGINEERS, INC. 17928 BOTHELL EVERETT HWY SE, SUITE H BOTHELL, WASHINGTON 98012 (206) 481-7735 FAX 481-7692 CONTACT: JOHN WALKER

and the second G G 0 GGLO Architecture and Interior Design 1008 Western Avenue, Suite 402 Seattle, Washington 98104-1032 Phone: (206) 467-5828 Fax: (206) 467-0627 ANDREW'S HEIGHTS BELLEVUE WASHINGTON for ST. ANDREW'S HOUSING GROUP DRAWING ISSUES 2A BID 5/16/94 5B PERMIT REV. 9/12/94 CAD FILE: E2-2 LAST UPDATE: 5/16/94 PLOT DATE: 5/15/94 PROJECT No. 93015 DRAWING TITLE RECEIVED ELECTRICAL LIGHTING 6 1334 PLAN PERMIT PROCESSING SCALE: 1/8" = 1'-0" RECEIVED SHEET NO. OCT 1994 E2.2 PERMIT PROCESSING







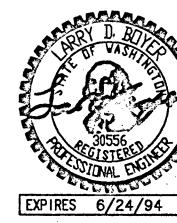




NOTES THIS SHEET

- PROVIDE No. 6 WIRE TO RANGE RECEPTACLE. CIRCUIT AS SHOWN ON DRAWINGS. VERIFY EXACT REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
- PROVIDE CONNECTION FOR RANGE HOOD. VERIFY WITH ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT. CIRCUIT AS SHOWN ON DRAWINGS. $\langle 2 \rangle$
- PROVIDE SWITCH AND RECEPTACLE WITH No. 10 WIRE FOR SINK GARBAGE DISPOSAL. CIRCUIT AS SHOWN ON DRAWING. $\langle 3 \rangle$
- SEE UNIT 3A FOR TYPICAL CIRCUITS, DEVICES, AND NOTES.
- SEE UNIT 4A FOR TYPICAL CIRCUITS, DEVICES, AND NOTES. SEE UNIT 3B FOR TYPICAL CIRCUITS, DEVICES, AND NOTES.
- SEE UNIT 4C FOR TYPICAL CIRCUITS, DEVICES, AND NOTES.
- 8 EXHAUST FAN IN THE BATHROOM SHALL BE SWITCHED WITH THE LIGHT FIXTURE IN THAT ROOM.
- 9 PROVIDE No. 10 WIRE TO WATER HEATER DISCONNECT. CIRCUIT AS SHOWN ON DRAWINGS.
- $\langle 10 \rangle$ EXHAUST FAN CIRCUIT HP1-15,17,19.
- UPPER OUTLET OF RECEPTACLE TO BE CONTROLLED BY SWITCH. SEE LIGHTING PLAN FOR SWITCH LOCATIONS.
- (12) FOR EACH UNIT PROVIDE THREE COMPLETE WIRED RECEPTACLES IN BID. LOCATION AND CIRCUIT TO BE DETERMINED PRIOR TO ROUGH-IN.

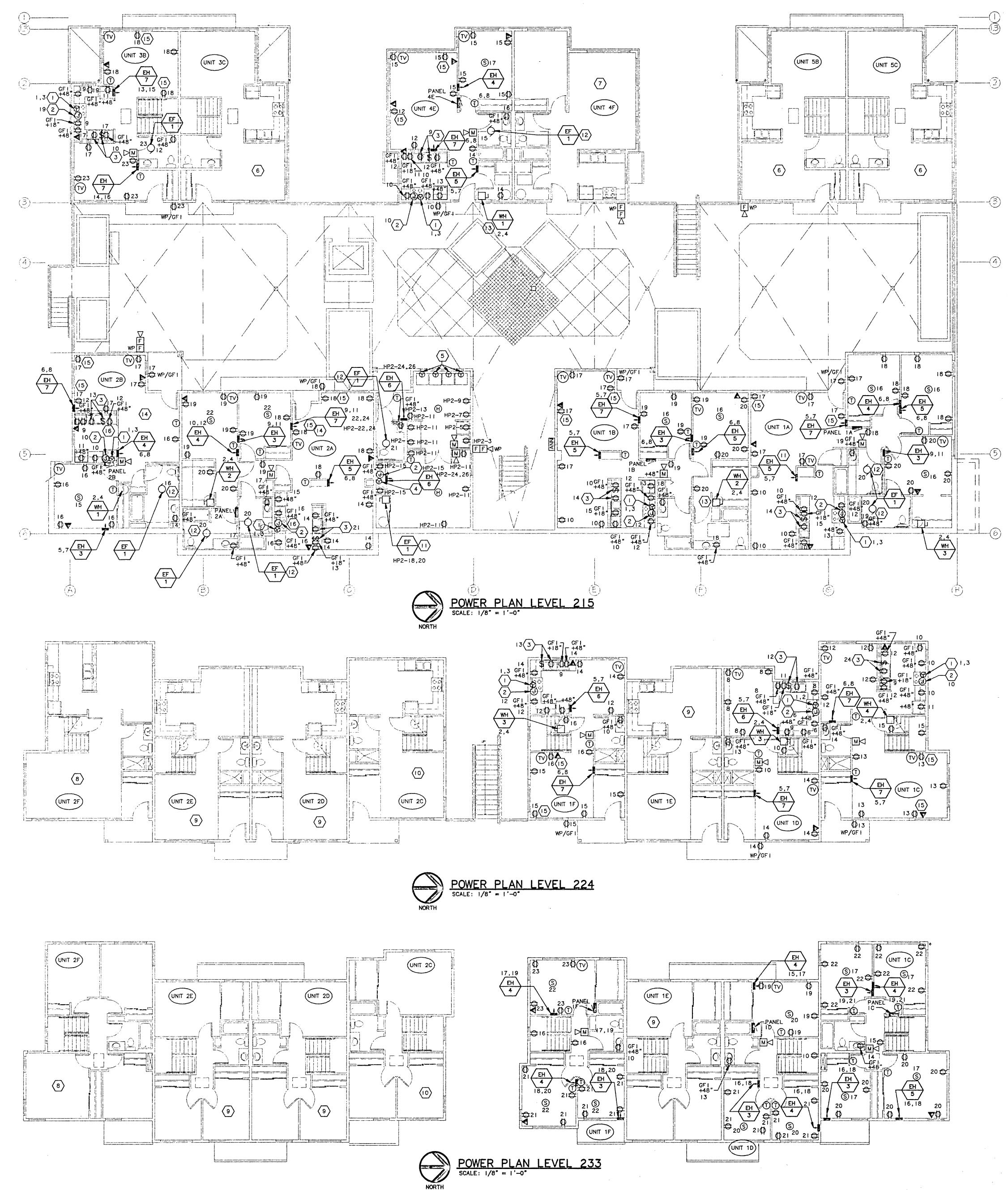
	ELECTRIC HEATER SCHEDULE
MOUNTH SWITCH METAL O AS IND	IC HEATERS, COMPAK MODEL FX SERIES, FAN FORCED, WALL MOUNT, 20 GAUGE WALL NG CAN WITH FOUR KNOCKOUTS AND JUNCTION BOX, TWO HIGH TEMPERATURE LIMIT ES, BLOWER MOTOR AND WIRING ISOLATED FROM THE HEATING CHAMBER, 20 GAUGE GRILLE, U.L. LISTED, COLOR SELECTED BY ARCHITECT. PROVIDE REMOTE THERMOSTAT ICATED, COMPAK MODEL C400 SERIES, LINE VOLTAGE WITH DOUBLE LINE BREAK (TWO ANTICIPATOR.
TAG	DESCRIPTION
EH-1	CADET MODEL FX-052, 375 WATTS, 208/1.
EH-2	CADET MODEL FX-072, 562 WATTS, 208/1.
EH-3	CADET MODEL FX-102, 750 WATTS, 208/1.
EH-4	CADET MODEL FX-122, 900 WATTS, 208/1.
EH-5	CADET MODEL FX-152, 1,125 WATTS, 208/1.
EH6	CADET MODEL FX-202, 1,500 WATTS, 208/1.
EH-7	CADET MODEL FX-242, 1,800 WATTS, 208/1.



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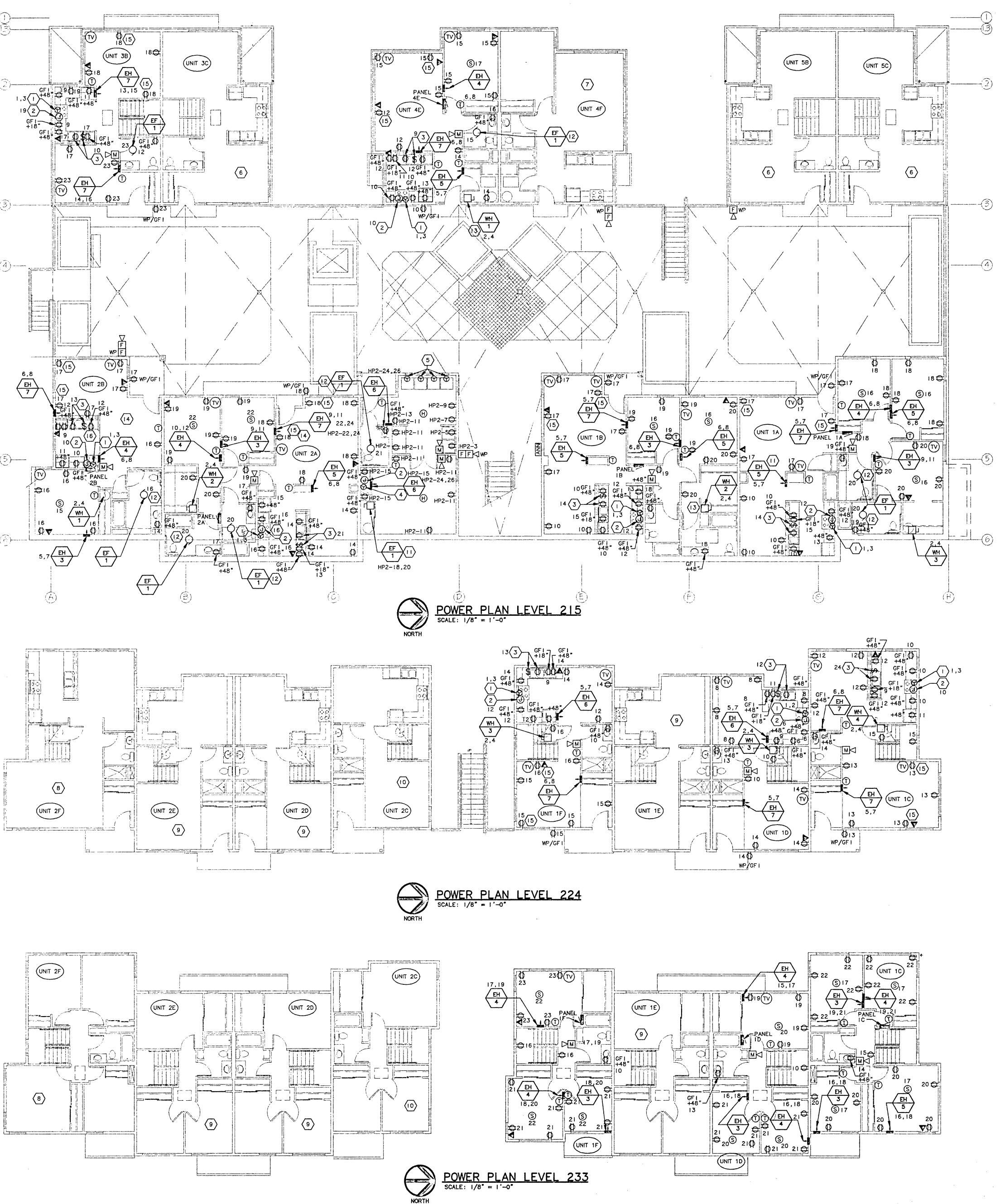
سايات الموسدين بالمعارف المعاديات إربعا الالالا G G 0 GGLO Architecture and Interior Design 1008 Western Avenue, Suite 402 Seattle, Washington 98104–1032 Phone: (206) 467-5828 Fax: (206) 467-0627 ANDREW'S HEIGHTS BELLEVUE WASHINGTON for ST. ANDREW'S HOUSING GROUP DRAWING ISSUES 2A BID 5/16/94 58 PERMIT REV. 9/12/94 CAD FILE: E3-1 LAST UPDATE: 5/16/94 PLOT DATE: 5/15/94 PROJECT No. 93015 DRAWING TITLE REC WED ELECTRICAL POWER PLAN SCALE: 1/8"=1'-0" OCT. PERMIT PROCESSING SHEET No. RECEIVED E3 PERMIT PROCESSING

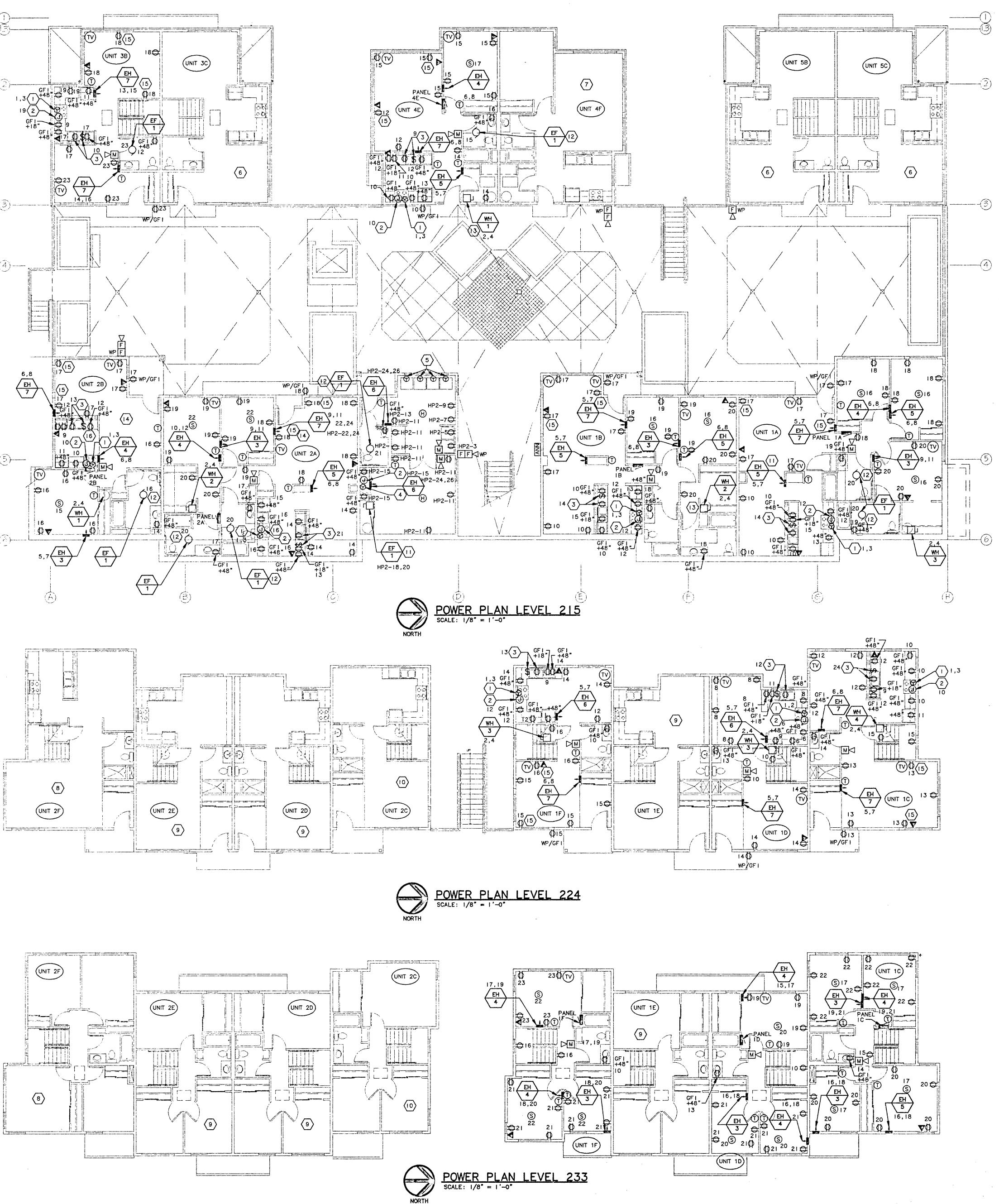
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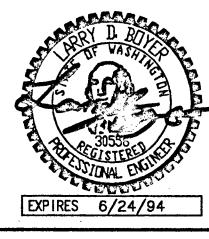


NOTES THIS SHEET

- PROVIDE No. 6 WIRE FOR RANGE RECEPTACLE. CIRCUIT AS SHOWN ON DRAWINGS.
- 2 PROVIDE J-BOX FOR RANGE HOOD. VERIFY WITH ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT. CIRCUIT AS SHOWN ON DRAWINGS.
- $\langle 3 \rangle$ PROVIDE SWITCH AND RECEPTACLE WITH No. 10 WIRE FOR SINK GARBAGE DISPOSAL. CIRCUIT AS SHOWN ON DRAWING.
- PROVIDE SPECIAL PURPOSE OUTLET WITH No. 8 WIRING FOR HOT PLATE ON CIRCUIT HP2-17,19.
- PROVIDE FOUR SPECIAL PURPOSE RECEPTACLES WITH No. 10 WIRING FOR STACK DRYERS. FIRST RECEPTACLE ON HP2-2,4. SECOND RECEPTACLE ON HP2-6,8. THIRD RECEPTACLE ON HP2-10,12. FOURTH RECEPTACLE ON $\langle 5 \rangle$ HP2-14,16.
- $\langle 6 \rangle$ SEE UNIT 3B FOR TYPICAL CIRCUITS, DEVICES, AND NOTES.
- SEE UNIT 4E FOR TYPICAL CIRCUITS, DEVICES, AND NOTES.
- SEE UNIT IC FOR TYPICAL CIRCUITS, DEVICES, AND NOTES.
- SEE UNIT ID FOR TYPICAL CIRCUITS, DEVICES, AND NOTES. (10)
- SEE UNIT IF FOR TYPICAL CIRCUITS, DEVICES, AND NOTES. $\langle 1 \rangle$ PROVIDE No. 8 WIRE FOR WATER HEATER. CIRCUIT ASA SHOWN ON
- DRAWINGS. (12) EXHAUST FAN IN BATHROOM SHALL BE SWITCHED WITH THE LIGHT FIXTURE IN THAT ROOM.
- (13) PROVIDE No. 10 WIRE FOR WATER HEATER. CIRCUIT AS SHOWN ON DRAWINGS.
- ALL OUTLETS IN THIS APARTMENT TO BE MOUNTED AT 15" TO THE BOTTOM OF THE DEVICE. $\langle 14 \rangle$
- UPPER OUTLET OF RECEPTACLE TO BE CONTROLLED BY SWITCH. SEE LIGHTING PLAN FOR SWITCH LOCATION. $\langle 15 \rangle$
- PROVIDE SWITCH FOR HANDICAP CONTROL OF RANDE HOOD. $\langle |6\rangle$ COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

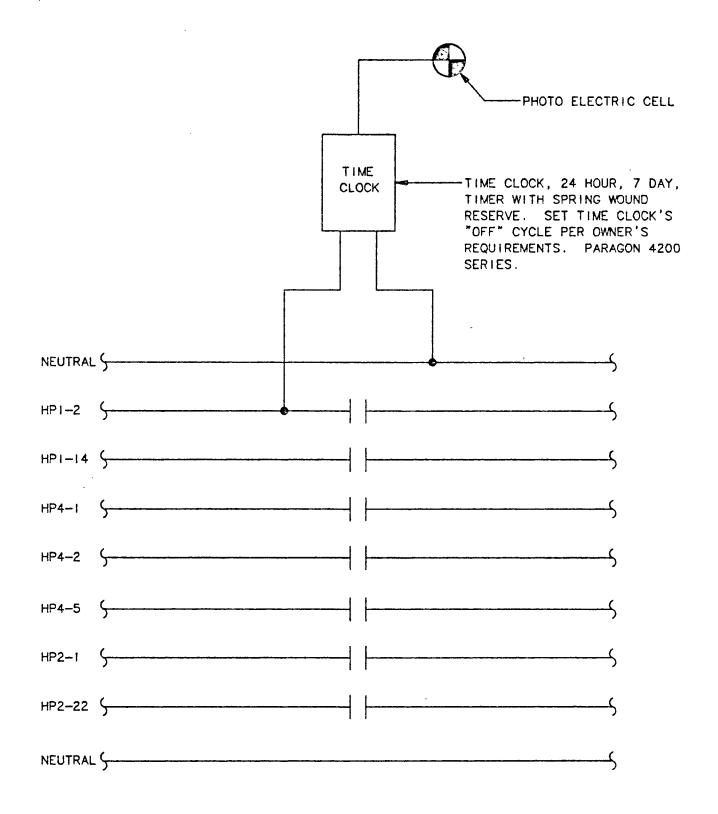
ELECTRIC HEATER SCHEDULE

MOUNTI SWITCH METAL AS IND	IC HEATERS, COMPAK MODEL FX SERIES, FAN FORCED, WALL MOUNT, 20 GAUGE WALL NG CAN WITH FOUR KNOCKOUTS AND JUNCTION BOX, TWO HIGH TEMPERATURE LIMIT ES, BLOWER MOTOR AND WIRING ISOLATED FROM THE HEATING CHAMBER, 20 GAUGE GRILLE, U.L. LISTED, COLOR SELECTED BY ARCHITECT. PROVIDE REMOTE THERMOSTAT ICATED, COMPAK MODEL C400 SERIES, LINE VOLTAGE WITH DOUBLE LINE BREAK (TWO ANTICIPATOR.
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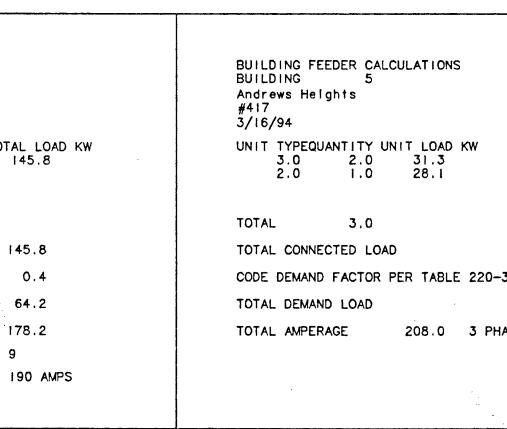
G G Ø GGLO Architecture and Interior Design 1008 Western Avenue, Suite 402 Seattle, Washington 98104-1032 Phone: (206) 467-5828 Fax: (206) 467-0627 ANDREW'S HEIGHTS BELLEVUE WASHINGTON for ST. ANDREW'S HOUSING GROUP DRAWING ISSUES 2A BID 5/16/94 58 PERMIT REV. 9/12/94 CAD FILE: E3-2 LAST UPDATE: 5/16/94 PLOT DATE: 5/15/94 PROJECT No. 93015 DRAWING TITLE RECEIVED ELECTRICAL POWER PERMIT PROCESSING PLAN SCALE: 1/8" = 1'-0" SHEET NO. RECEIVED E3 OCT 199.1 PERMIT PROCESSING بمستعد فتحصينا المتلا

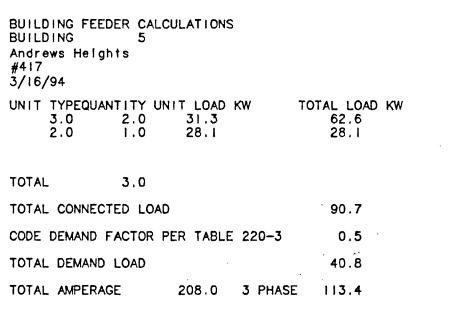


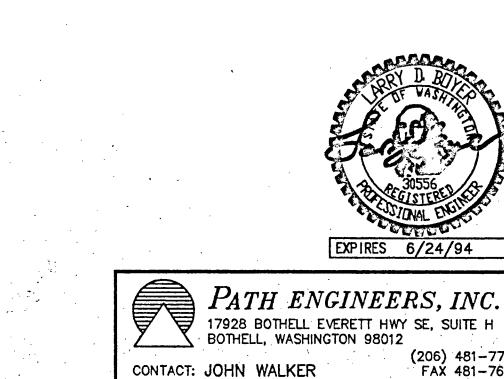


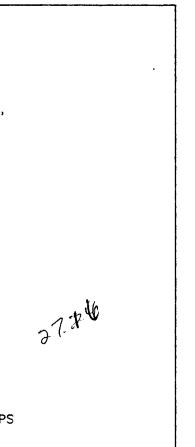
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UNIT FEEDER CALCULATIONS Andrews Heights #417 3/16/94	UNIT FEEDER CALCULATIONS Andrews Heights #417 3/16/94	UNIT FEEDER CALCULATIONS Andrews Heights #417 3/16/94	UNIT FEEDER CALCULATIONS Andrews Heights #417 3/16/94
UNIT TYPE I AREA 671 SQ' VOLTAGE 208 I PHASE	UNIT TYPE 2 AREA 1105 SQ' VOLTAGE 208 1 PHASE	UNIT TYPE 3 AREA 1196 SQ' VOLTAGE 208 I PHASE	UNIT TYPE 4 AREA 1425 SQ' VOLTAGE 208 1 PHASE
DESCRIPTION LOAD (KW)	DESCRIPTION LOAD (KW)	DESCRIPTION LOAD (KW)	DESCRIPTION LOAD (KW)
ELECTRIC HEAT2.60WATER HEATER4.50DISHWASHER1.20	ELECTRIC HEAT2.60WATER HEATER4.50DISHWASHER1.20	ELECTRIC HEAT 3.16 WATER HEATER 6.00 DISHWASHER 1.20	ELECTRIC HEAT3.08WATER HEATER6.00DISHWASHER1.20
DISPOSAL 0.80 MICROWAVE 0.80 APPLIANCE CIRCUITS 3.00	DISPOSAL 0.80 MICROWAVE 0.80 APPLIANCE CIRCUITS 3.00	DISPOSAL 0.80 MICROWAVE 0.80 APPLIANCE CIRCUITS 3.00	DISPOSAL 0.80 MICROWAVE 0.80 APPLIANCE CIRCUITS 3.00
GENERAL LIGHTING 2.01 RANGE/OVEN 8.00	GENERAL LIGHTING 3.32 RANGE/OVEN 8.00	GENERAL LIGHTING 3.59 RANGE/OVEN 8.00 20	GENERAL LIGHTING 4.28 RANGE/OVEN 8.00
ELECTRIC HEAT OTHER LOADS ELECTRIC HEAT + 100% OF FIR 20.3 KW 22.9 total	ELECTRIC HEAT 2.6 KW OTHER LOADS 21.6 KW ELECTRIC HEAT + 100% OF FIR	ELECTRIC HEAT 3.2 KW OTHER LOADS 23.4 KW ELECTRIC HEAT + 100% OF FIR	ELECTRIC HEAT 3.1 KW OTHER LOADS 24.1 KW ELECTRIC HEAT + 100% OF FIR
10 KW AND 40% OF THE REST 16.7 KW	IO KW AND 40% OF THE REST 17.2 KW	10 KW AND 40% OF THE REST 18.5 KW	10 KW AND 40% OF THE REST 18.7 KW
AMPERAGE 208 I PHASE 80.4 AMPS	AMPERAGE 208 I PHASE 82.9 AMPS	AMPERAGE 208 I PHASE 89.0 AMPS	AMPERAGE 208 I PHASE 90.0 AMPS

AMPERAGE 208 I PHASE 80.4 AMPS	AMPERAGE 208 I PHASE 82.9 AMPS	AMPERAGE 208 I PHASE 89.0 AMPS	AMPERAGE 208 I PHASE 90.0 AMPS
BUILDING FEEDER CALCULATIONS BUILDING I Andrews Heights #417 3/16/94	BUILDING FEEDER CALCULATIONS BUILDING 2 Andrews Heights #417 3/16/94	BUILDING FEEDER CALCULATIONS BUILDING 3 Andrews Heights #417 3/16/94	BUILDING FEEDER CALCULATIONS BUILDING 4 Andrews Heights #417 3/16/94
UNIT TYPE QUANTITY UNIT LOAD KW TOTAL LOAD KW 2.0 3.0 28.1 84.3 3.0 2.0 31.3 62.6 4.0 1.0 31.8 31.8	UNIT TYPE QUANTITY UNIT LOAD KW TOTAL LOAD KW 1.0 1.0 24.3 24.3 2.0 3.0 28.1 84.3 3.0 1.0 31.3 31.3 4.0 1.0 31.8 31.8	UNIT TYPEQUANTITY UNIT LOAD KW TOTAL LOAD KW 2.0 1.0 28.1 28.1 3.0 2.0 31.3 62.6	UNIT TYPEQUANTITY UNIT LOAD KW TOTAL LOAD 1.0 6.0 24.3 145.8
TOTAL 6.0	TOTAL 6.0	TOTAL 3.0	TOTAL 6.0
TOTAL CONNECTED LOAD 178.7	TOTAL CONNECTED LOAD 171.7	TOTAL CONNECTED LOAD 90.7	TOTAL CONNECTED LOAD 145.8
CODE DEMAND FACTOR PER TABLE 220-32 0.5	CODE DEMAND FACTOR PER TABLE 220-32 0.4	CODE DEMAND FACTOR PER TABLE 220-32 0.5	CODE DEMAND FACTOR PER TABLE 220-32 0.4
TOTAL DEMAND LOAD 80.4	TOTAL DEMAND LOAD 75.5	TOTAL DEMAND LOAD 40.8	TOTAL DEMAND LOAD 64.2
TOTAL AMPERAGE208.03 PHASE223.4HOUSE PANEL208.03 PHASE128	TOTAL AMPERAGE208.039HOUSE PANEL208.039TOTAL336AMPS	TOTAL AMPERAGE 208.0 3 PHASE 113.4	TOTAL AMPERAGE208.03PHASE178.2HOUSE PANEL208.03PHASE9TOTAL190AMPS









EXIT LIGHT EMITTING DIODE EXIT FIXTURE, WHITE FINISH, SINGLE OR DOUBLE FACED, BAKED WHITE ENAMEL FINISH, GREEN POLYCARBONATE DIFFUSER, LAMPS SHALL NOT BE VISIBLE, WITH ARROWS AS INDICATED ON DRAWINGS, SURE-LITES CAX SERIES, OR APPROVED. INPUT WATTS=10 BATTERY BALLAST: FLUORESCENT EMERGENCY BATTERY BALLAST, TWO 4' T8 LAMP MODEL. BODINE B50 SERIES, OR APPROVED. GENERAL FIXTURE NOTES: PROVIDE ALL MOUNTING HARDWARE, FLANGES, STEMS, SLOPE CEILING ADAPTERS, SWIVEL HANGERS ETC. FOR THE FINAL CEILING CONSTRUCTION TYPE.

PROVIDE ALL VANDAL RESISTANT OPTIONS ON ALL EXTERIOR FIXTURES.

2. ALL FLUORESCENT BALLASTS SHALL BE ELECTRONIC.

EWP WALL MOUNTED, TWIN HEAD, GLASS SEALED BEAM LAMPS, FIBERGLASS REINFORCED HOUSING, SEALED MAINTENANCE FREE 50 WATT NICKEL CADMIUM BATTERY, SURELITES AA8 SERIES, OR EMERGILITE

IWI FLUORESCENT WALL MOUNTED OVER VANITY FIXTURE, 36" UNIT, SATIN WHITE ACRYLIC DIFFUSER, WHITE ALABASTER FINISHED ENDS, POLISHED BRASS TRIM. TIMELY 5402 AS/BR, 5522 WH SERIES, OR APPROVED. LAMPS;2-39W/BIAX/3500K. INPUT WATTS=90 MWI MERCURY VAPOR WALL MOUNTED DECORATIVE FIXTURE, DIE-CAST ALUMINUM HALFLID AND GUARD, WHITE GLASS DIFFUSER WITH TEXTURED INTERIOR, BLACK FINISH. BEGA 2983M SERIES OR APPROVED. LAMPS; I-50W/MV/CLEAR. INPUT WATTS=62 MW2 METAL HALIDE WALL MOUNTED FIXTURE, DIE-CAST ALUMINUM HOUSING, TEMPERED GLASS LENS, ANODIZED ALUMINUM REFLECTOR, ALUMINUM VISOR. LUMARK MHGP SERIES, OR APPROVED. LAMPS; 1-175W/MH/CLEAR. INPUT WATTS=210. MXI METAL HALIDE POLE MOUNTED SITE FIXTURE, DIE-FORMED ALUMINUM HOUSING, POLYESTER POWDER COAT FINISH WITH COLOR AS SELECTED BY ARCHITECT, FULLY SEALED AND GASKETED HINGED DOOR, SPECULAR ANODIZED ALUMINUM HYDROFORMED REFLECTOR, DESIGN 40 DISTRIBUTION, TEMPERED GLASS LENS, PROVIDE 25' SQUARE POLE TO MATCH FIXTURE. MCGRAW-EDISON CS SERIES, OR APPROVED.

LAMPS; I-250W/MH/CLEAR. INPUT WATTS=292

EQUIVALENT. LAMPS; 2-12W. INPUT WATTS=42

- WHITE GLASS DIFFUSER. DABBCO 3720 (MODIFIED FOR PENDANT) SERIES, OR TIMELY EQUIVALENT. LAMPS; 1-13W/DTT/3500K. INPUT WATTS=18 FWI FLUORESCENT WALL MOUNTED FIXTURE, FROSTED POLYCARBONATE DIFFUSER, HIGH IMPACT POLYCARBONATE HOUSING WITH COLOR AS SELECTED BY ARCHITECT. TIMELY F4046 SERIES, OR DABBCO EQUIVALENT. LAMPS;2-9W/TT/3500K. INPUT WATTS=24 FW2 INCANDESCENT WALL MOUNTED SCONCE FIXTURE, WHITE FINISH, CLEAR FROSTED GLASS RINGS, ALUMINUM HOUSING. TIMELY 716WH SERIES, OR APPROVED. LAMPS;2-60W/A-19.
- FS3 FLUORESCENT WRAPAROUND FIXTURE, BAKED WHITE ENAMEL FINISH, .125" THICK ACRYLIC DIFFUSER. METALUX W232 SERIES. LAMPS;2-F32/T8/3500K. INPUT WATTS=65 FS4 SAME DESCRIPTION AS FSI EXCEPT WITHOUT COLD WEATHER BALLAST. METALUX SS232 SERIES, DAY BRITE, OR COLUMBIA EQUIVALENT. LAMPS;2-F32/T8/3500K. INPUT WATTS=65 FPI FLUORESCENT PENDANT MOUNTED DINNING ROOM FIXTURE, WHITE FINISH, CAST ALUMINUM SHADE ON CORD HUNG PENDANT, RIBBED
- FIXTURE SCHEDULE FRI FLUORESCENT RECESSED OPEN DOWNLIGHT FIXTURE, DIE-CAST ALUMINUM HOUSING WITH HEAT SINKS, GALVANIZED STEEL MOUNTING BRACKETS, SPECULAR ALZAK REFLECTOR, TRIM RING TO MATCH CEILING TYPE. LITHONIA AF 2/26 SERIES, CAPRI, OR PRESCOLITE EQUIVALENT. LAMPS;2-26W/DTT/3500K. INPUT WATTS=60

FSI FLUORESCENT SURFACE MOUNTED STRIP FIXTURE, DIE-FORMED STEEL HOUSING, BAKED WHITE ENAMEL FINISH, PROVIDE COLD WEATHER

BALLAST. METALUX SS232 SERIES, DAY BRITE, OR COLUMBIA

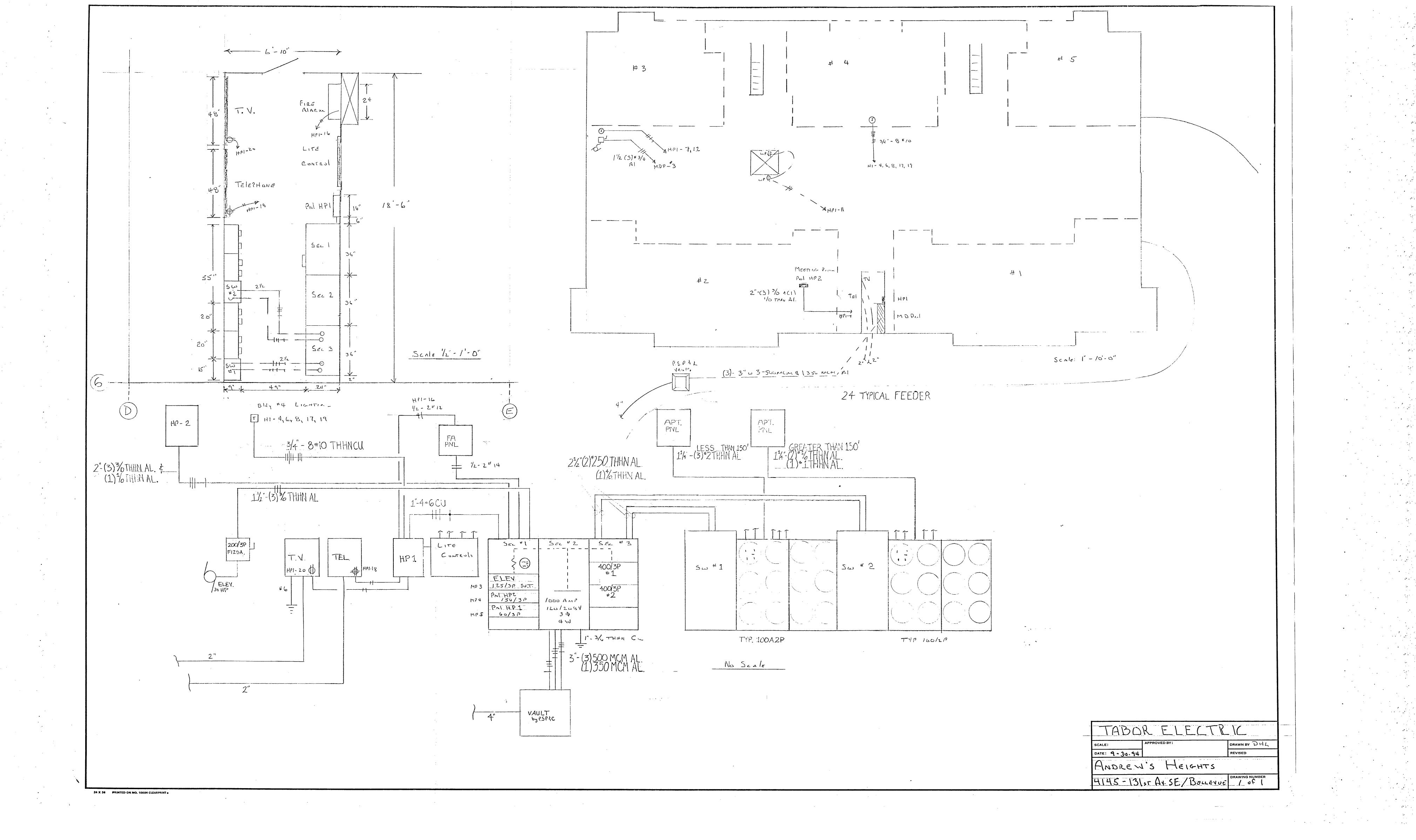
EQUIVALENT. LAMPS; 2-F32/T8/3500K. INPUT WATTS=65

SERIES. LAMPS; 2-13W/TT/3500K. INPUT WATTS=36

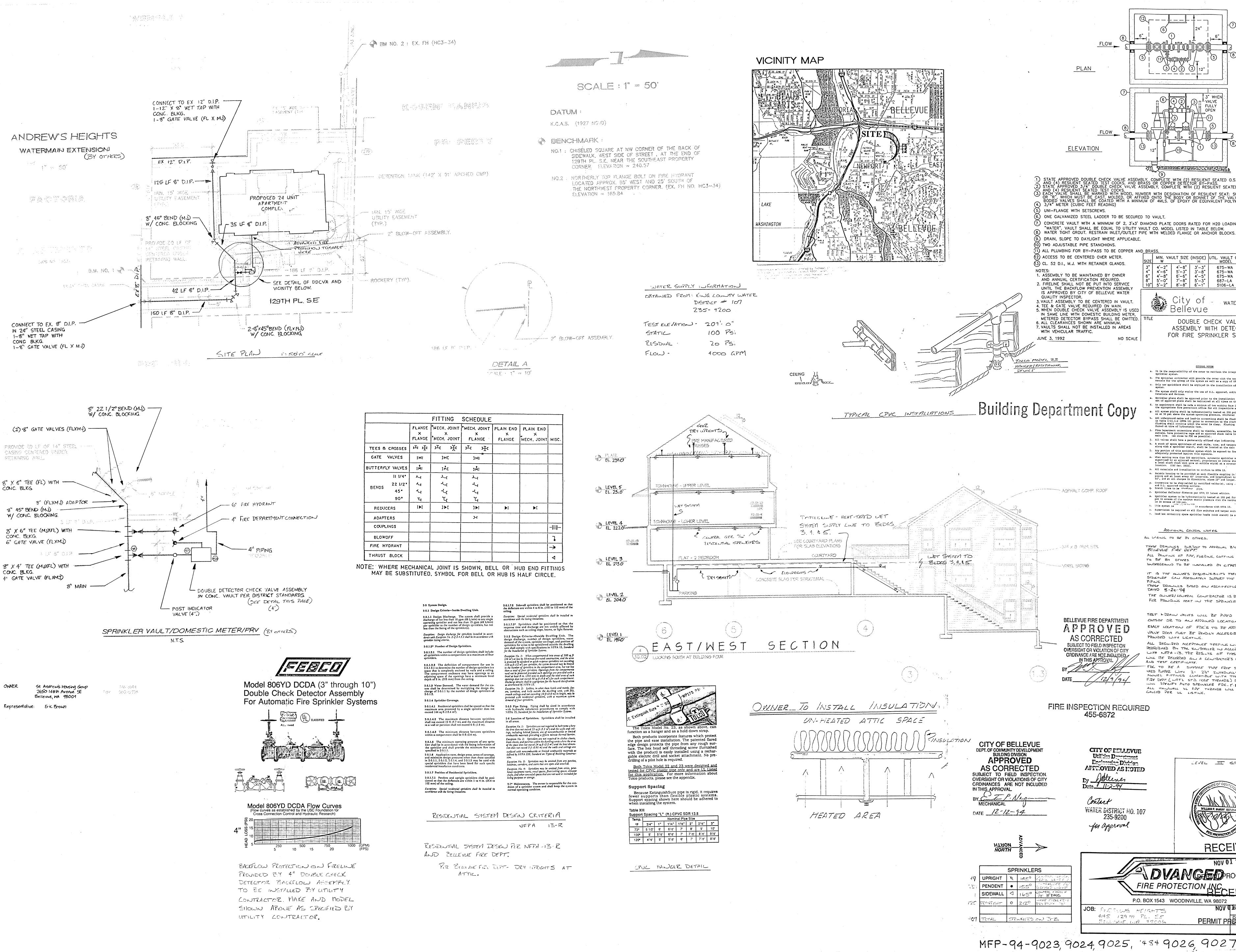
FS2 FLUORESCENT CEILING MOUNTED DECORATIVE FIXTURE, POLISHED

BRASS CANOPY, WHITE GLASS DIFFUSER. TIMELY F445BRHPF

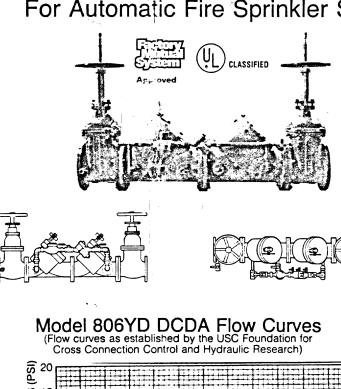
R G a Land Line of a Los and the GGLO Architecture and Interior Design 1008 Western Avenue, Suite 402 Seattle, Washington 98104-1032 Phone: (206) 467-5828 Fax: (206) 467-0627 ANDREW'S HEIGHTS BELLEVUE WASHINGTON for ST. ANDREW'S HOUSING GROUP DRAWING ISSUES 2A BID 5/16/94 5B PERMIT REV. 9/12/94 CAD FILE: E4-2 LAST UPDATE: 5/16/94 PLOT DATE: 5/15/94 PROJECT NO. 417 DRAWING TITLE FILLE ELECTRICAL UCT DETAILS PERMIT PROCESSING & SCHEDULES SCALE: NO SCALE RECEIVED SHEET NO. E4.2 PERMIT PFOCESSING (206) 481-7735 FAX 481-7692



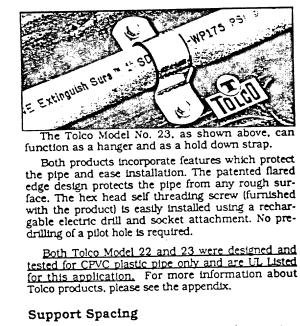
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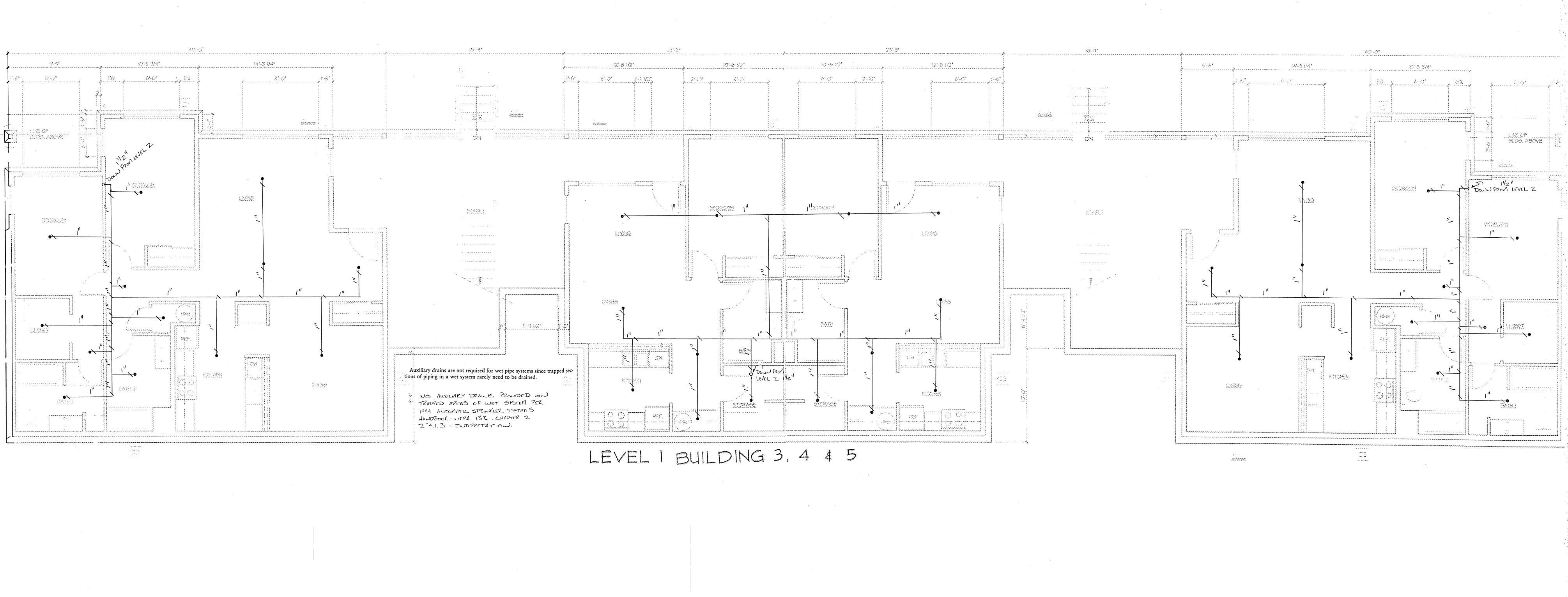


			FITTING	SCHEDULE	1. 77 · 10 ⁻¹ · 10-1		
		FLANGE X FLANGE	MECH, JOINT X MECH, JOINT	×	PLAIN END X FLANGE	PLAIN END	MISC.
TEES 8	CROSSES	뜨 표	ਮੱ ਮੁੱ	ਮ ਮ			
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COUPL	LINGS						-#-
BLOW	OFF						7
FIRE H	YDRANT						→
THRUST	BLOCK						4



Temp.			Nomli	nal Plp	e Size		
۰F	3/4"	1"	11⁄4"	11/2"	2"	21/2"	3"
73°	5 1/2'	6'	61/2"	7'	8.	9.	10'
100°	5'	51/2'	61/2'	7	7'/2'	8'/2'	91/2'
120°	4'2'	5'	51/2	6'	7	7'/2'	81/2

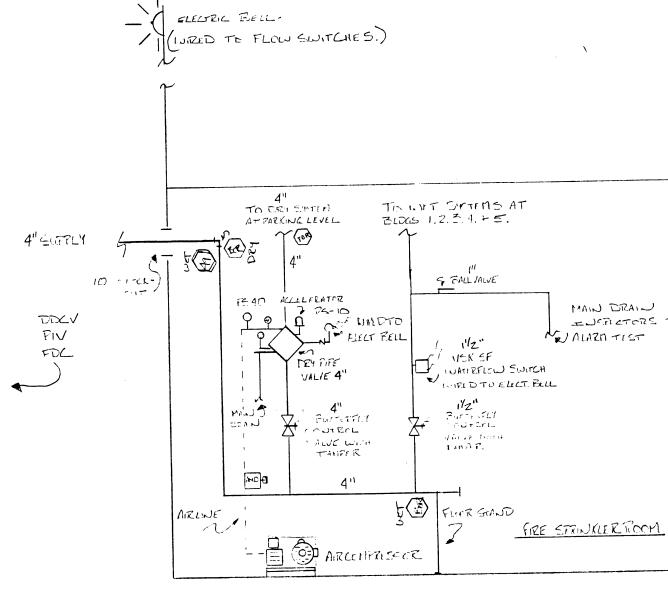
VAL VE VALVE ASSEMBLY, COMPLETE WITH (2) RESILIENT SEATED O.S.&Y. VALVES COCKS, AND BRASS OR COPPER DETECTOR BY-PASS. HECK VALVE ASSEMBLY, COMPLETE WITH (2) RESILIENT SEATED BALL VALVES AND (4) RESILIENT SEATED TEST COCKS. DEACH VALVE SHALL BE MARKED WITH MODEL NUMBER WITH DESIGNATION OF RESILIENT SEATED BALL VALVES OR "R", WHICH MUST BE CAST, MOLDED, OR AFFIXED ONTO THE BODY OR BONNET OF THE VALVE. ALL FERROUS BODIED VALVES SHALL BE COATED WITH A MINIMUM OF 4MLS. OF EPOXY OR EQUIVALENT POLYMERIZED COATING. 3/4" METER (CUBIC FEET READING)) CONCRETE VAULT WITH A MINIMUM OF 2, 3'x3' DIAMOND PLATE DOORS RATED FOR H20 LOADING, MARKED MIN. VAULT SIZE (INSIDE) UTIL. VAULT CO.UTIL. VAULT CO 4'-2" 4'-8" 675-WA 675-2-332P 3'-3" 4'-6" 5'-3" | 3'-8" 675-WA 675-2-332P 6" 4'-8" 6'-6" 4'-5" 675-WA 675-2-332P 5'-0" 7'-8" 5'-3" 687-LA 687-TL-2-332 10" 5'-2" 8'-8" 6'-1" 5106-LA 5106-TL3-332 City of Bellevue WATER UTILITIES DOUBLE CHECK VALVE ASSEMBLY WITH DETECTOR FOR FIRE SPRINKLER SYSTEM NO. 5C-30B GENERAL NOTES It is the responsibility of the owner to maintain the integrity of the sprinkler system. b. The sprinkler contractor will provide the owner with the necessary instruction manuals for the upkeep of the system as well as a copy of NFFA 13A. c. Only new sprinklers shall be employed in the installation of the sprinkler system d. The system shall only employ the use of U.L. approved, and/or FM approved materials and devices. Sprinkler plans shall be approved prior to the installation of any pipe.
 set of approved plans shall be maintained at all times on the job size. f. An appointment shall be made a minimum of two working days in advance with the appropriate fire prevention office for all inspections and tests. g. All system piping shall be hydrostatically tested at 200 psi for two hours or at 50 psi above the system operating pressure, whichever is greater. h. All underground mains and lead-in connections shall be flushed as indicated in Table 1-11.1:2 (NFPA 13) prior to connection to the overhead piping. The flushing shall continue until the vater is clear. Flushing should be per-formed at time of hydrostatic test. Fire Department connections shall be visible, accessible, have NST female outlets, have protective caps and an approved check valve located in the main line. (as close to FDC as possible). j. All values shall have a permanently affixed sign indicating its function. k. A stock of spare sprinklers of each style, type, and temperature rating, along with a sprinkler wrench, shall be located at the main riser. Any portion of this sprinkler system which is exposed to freezing shall be adequately protected against this exposure. m. When serving more than 100 sprinklers, automatic sprinkler systems shall be supervised by an approved centrel, proprietary or remote station service or a local alarm which will give an audible signal at a constantly attended location. (UBC Sec. 3803). n. All materials and installation to conform to NFFA 13. o. Seismic bracing to be provided at each flexible coupling in horizontal piping and at least every 40' intervals, and longitudinal braces every 80', and at all changes in directions, sizes 2}" and larger. p. Crossmains to be shop-welded by certified welder(s), using .134 wall piping and U.L. approved welding outlets. 9. Branch lines to be prwafkow pipe, r. Sprinkler deflector distance per NFFA 13 latest edition. Sprinkler system to be hydrostatically tested at 200 psi for 2 hours or at 50 psi in excess of the maximum static pressure when the maximum static pressure is in excess of 150 psi.
 This system is in accordance with NFFA 13. u. Supervision is required on all flow switches and tamper switches. v. Head box containing spare sprinkler heads (with wrench) is required at all risers. ADDIFIONAL GENERAL NOTES ALL WIRING TO BE BY OTHERS. THESE DRAWINGS SUBJELT TO APPROVAL BY THE BELLEVUE FIRE DEPT. ALL PAINTING OF PIPE, FUZRING, CUTTING OR PATCHING TO BE BY OTHERS. UNDERGROUND TO BE INSTALLED BY OTHERS IT IS THE QUINER'S RESPONSIBILITY THAT THE STRICTURE CAN ADEQUATELY SUPPORT THE FIRE SPRINKLER PIPING. THESE DRAWINGS BASED ON ARCHITECTURAL PRINTS DATED 8-26-94 THE OWNER/GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING HEAT IN THE SPRINKLER VALVE ROOM TELT + DRAIN JALVES WILL BE PIPED TO DISCHARGE OUTSIDE OR TO AN APPROVED LOCATION. EVACT LOCATION OF FIRES TO RE APPROVED BY AND. VALUE ROOM MUST BE READILY ALLESSIBLE AND PROVIDED WITH LIGHTING. ALL REGULED ACCEPTANCE TESTING WILL BE PERFORMED BY THE IN STALLER IN ALLORDANCE WITH NEPA - 13. THE RESULTS OF THESE TESTS WILL BE RECORDED ON A LONTPACTOR'S MATERIAL AND TEST CERTIFICATE. FOC TO BE A SIAMESE TYPE FREE STANDING YARD PUMPER WITH 2- 21/2" INTERNALLY THREADED WINEL FITTINGS COMPATIBLE WITH THE BELLEVUE FRE DEPT. (NAT'L STD. HOSE THREADS.) SILNAGE WILL SPECIFY AUTO SPEINKLER FDC. FICTHORS ALL THIJWALL YL PIPE THZEADS WILL BE GAUGED PER UL LISTING. LEVEL III STANP RECEIVED NOV 01 1994 DVANGED[®]F FIRE PROTECTION INC. P.O. BOX 1543 WOODINVILLE, WA 98072 NOV (BY394 PERMIT PROCAESSING) OFS



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RISER DETAIL NOS

MAIN DRAIN M ALARN TIST

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---- TOP OF PARKING LEVEL

- FINISHED FLOOR

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Dry Upright Sprinkler and is carried out the sprinkler head with the flow of water. TECHNICAL DATA Approvals UL listed, FM Approved Max. length—36" (914mm) Win, length—3 '34" (95mm) Working Pressure Max. "A" length—36" (914mm) GENERAL DESCRIPTION The MODEL ME-1 Dry Upright Sprinkler is designed for use in areas where the sprinkler is subject to freezing. The construction of the MODEL ME-1 prevents water from filling the pipe, thus preventing damage to the sprinkler due to ÷ CĐ JO. the sprinkler due to freezing. The MODEL ME-1 is supplied with a 3/4 (20mm) chrome split ring escutcheon. OPERATION Min. "A" length—3 3/4" (95mm) Physical Characteristics and Discharge Coefficients Chrome spin ing escutcheon. OPERATION The spinkler head of the MODEL ME-1 shares the basic operating mechanism of the MODEL espinkler, it consists of a fusible alloy sealed in the center of a bronze strut by a stainless steel ball. Water pressure exerts force against the exposed surface of the Piston (Item 2, Figure 1, Page 2). This force is transmit-ted through the Piston Locking Balls (Item 3), Locking Balls (Item 13). When heat triggers the operating mechanism of the sprinkler head, it allows the Tube Support Bushing (Item 13) to be forced out and clear of the sprinkler head, it allows the Tube Support Bushing (Item 4) slide up allowing (Item 8) and Locking Balls (Item 4) slide up allowing (Item 5) to move upward. The Piston (Item 2) is no longer heid in place -hr

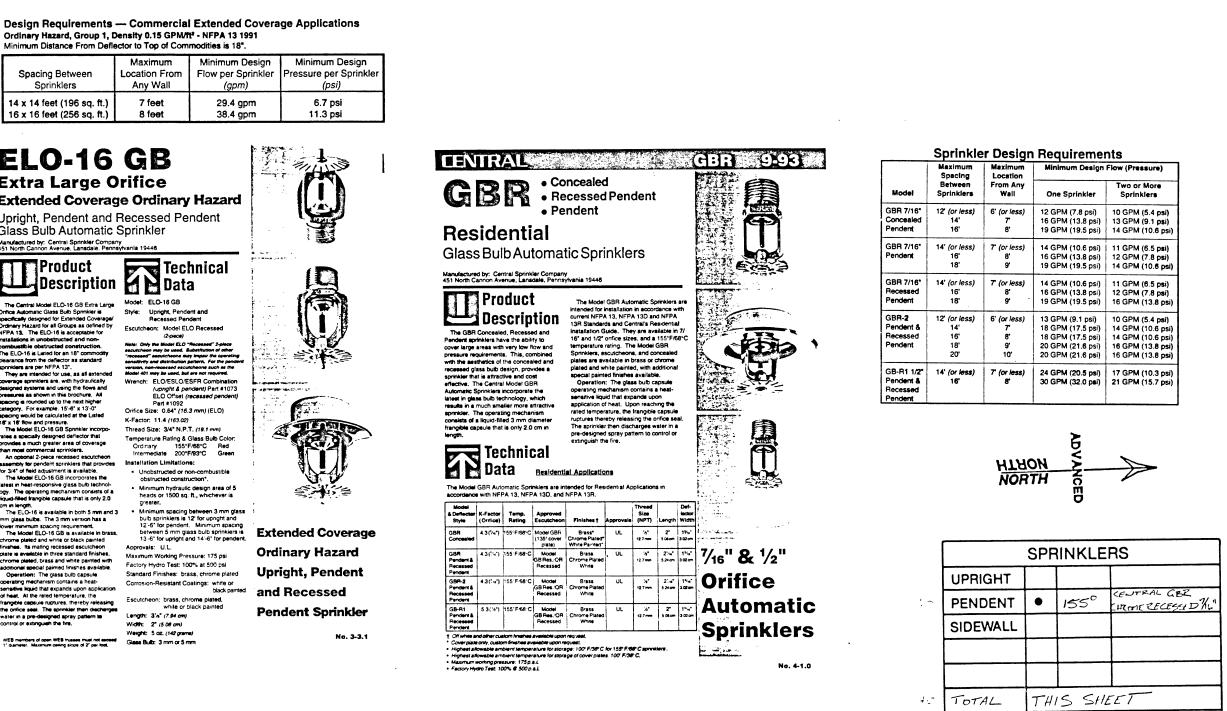
 14 x 14 feet (196 sq. ft.)
 7 feet

 16 x 16 feet (256 sq. ft.)
 8 feet
ELO-16 GB Extra Large Orifice Extended Coverage Ordinary Hazard Upright, Pendent and Recessed Pendent Glass Bulb Automatic Sprinkler Manufactured by: Central Sprinkler Company 451 North Cannon Avenue. Lansdale. Pennsylvania 19446 Product Description Technical Data <text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text> The Central Model ELO-16 GB Extra Large Model: ELO-16 GB Upright, Pendent and Recessed Pendent

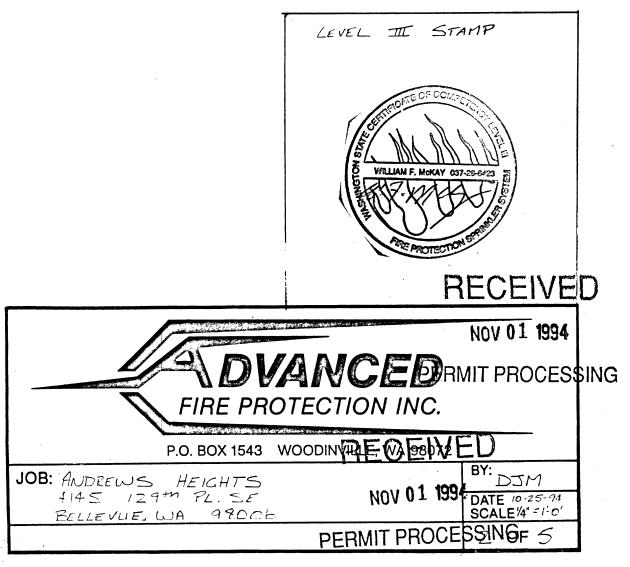
Spacing Between Sprinklers

ATTIC SPRINKLER DETAIL

- 1²



RESIDENITIAL SPRINJELER DETAIL



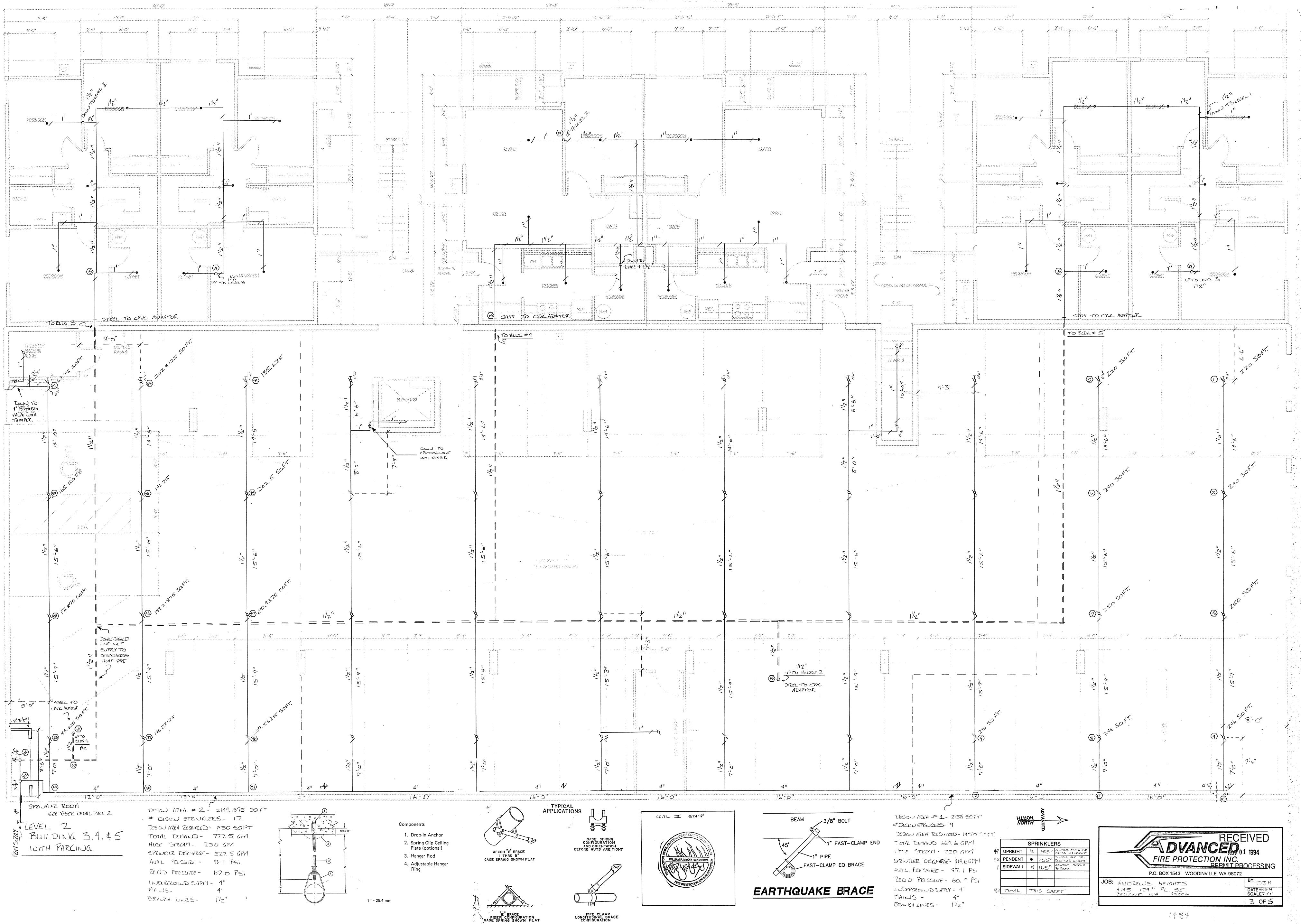
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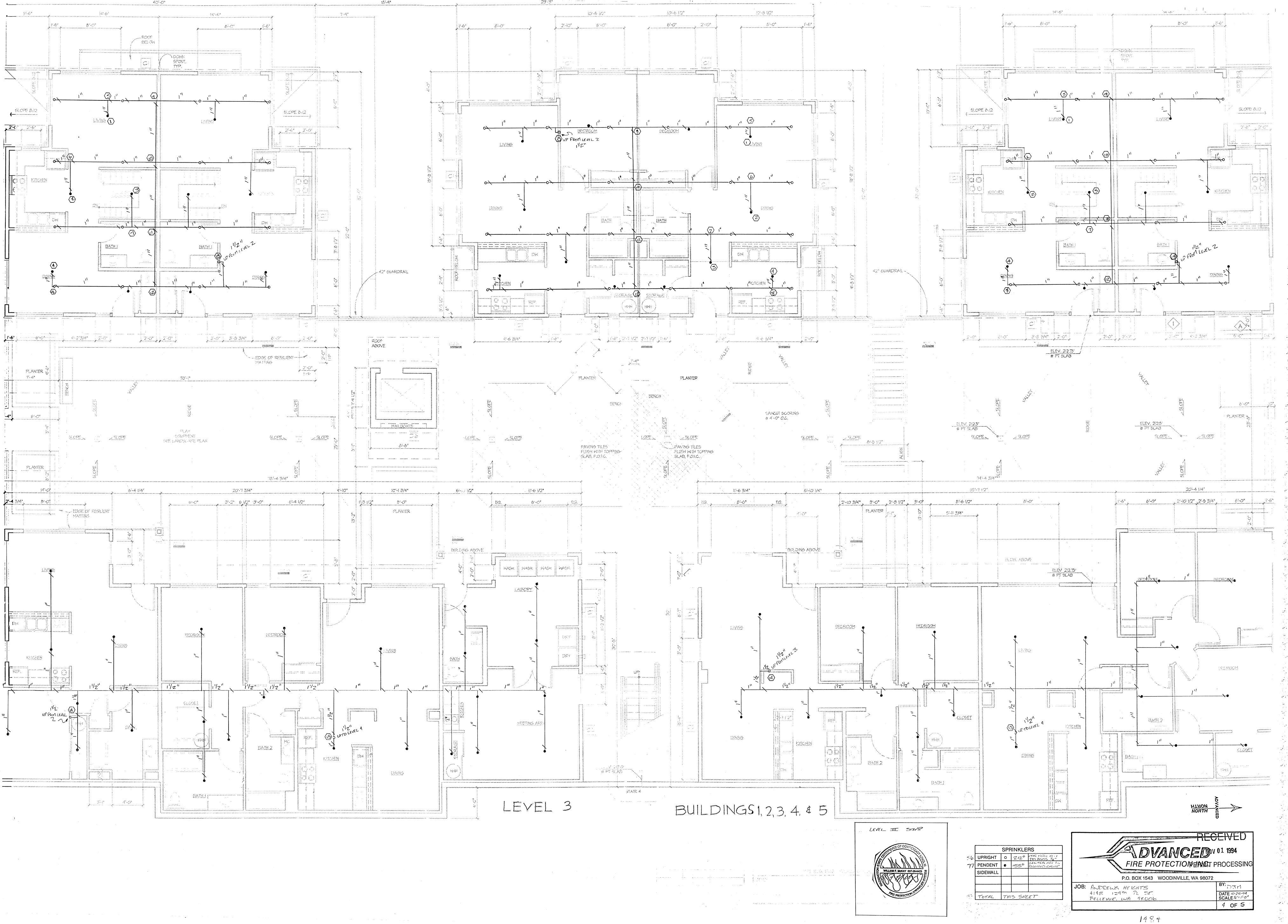
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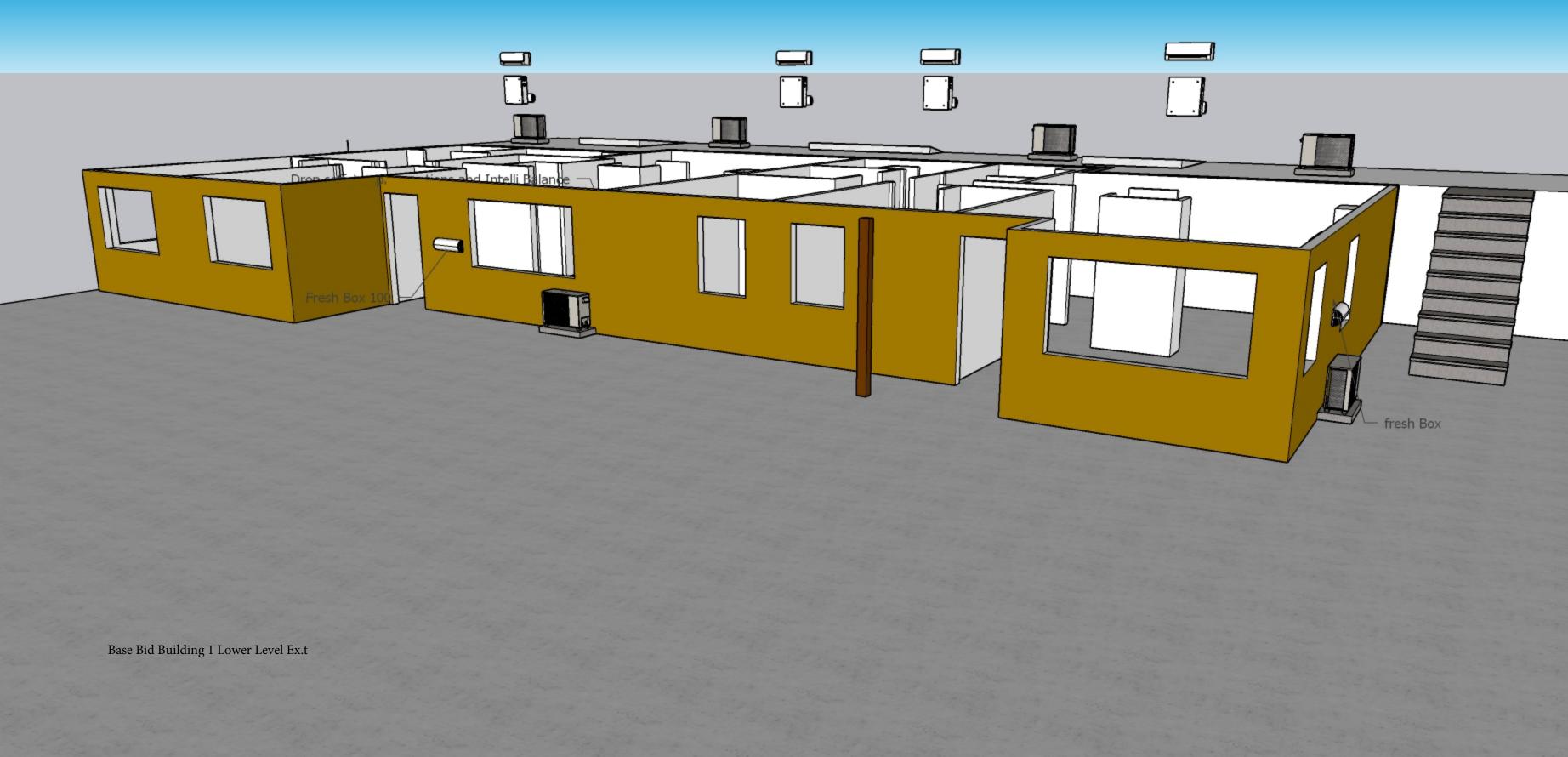
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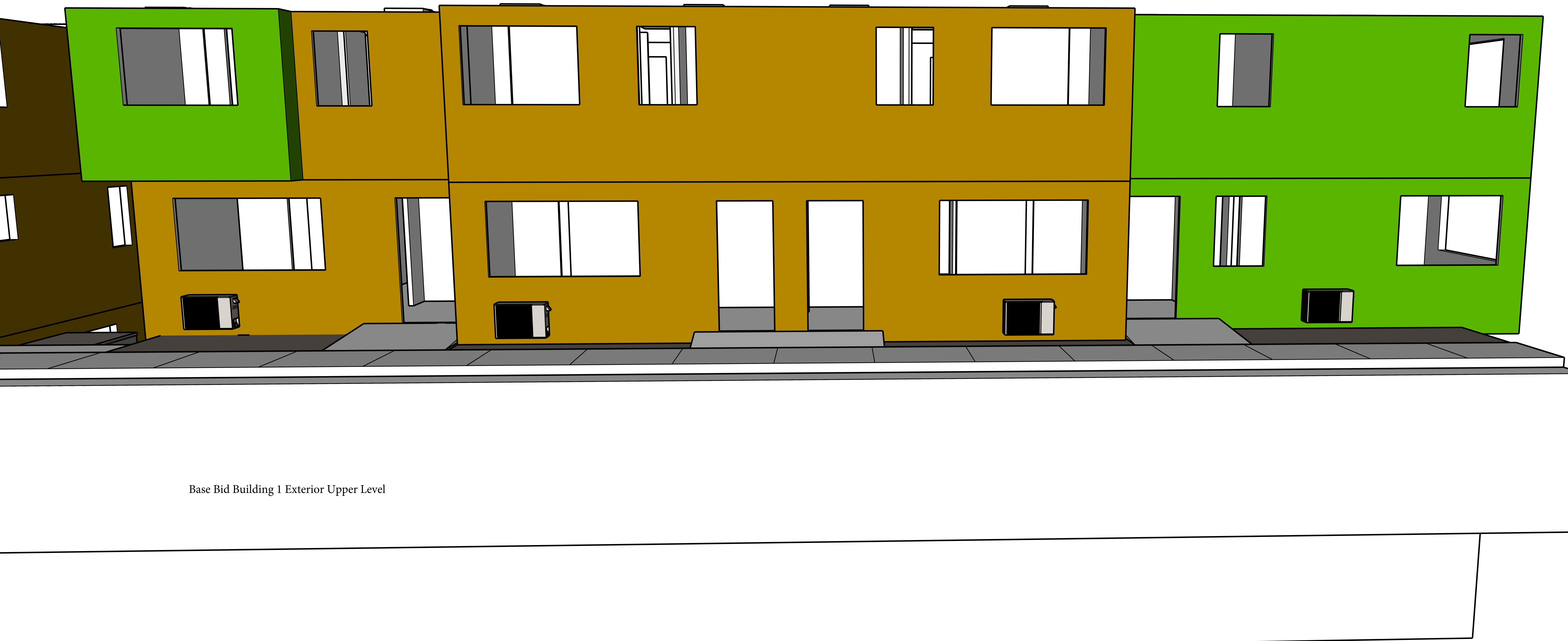
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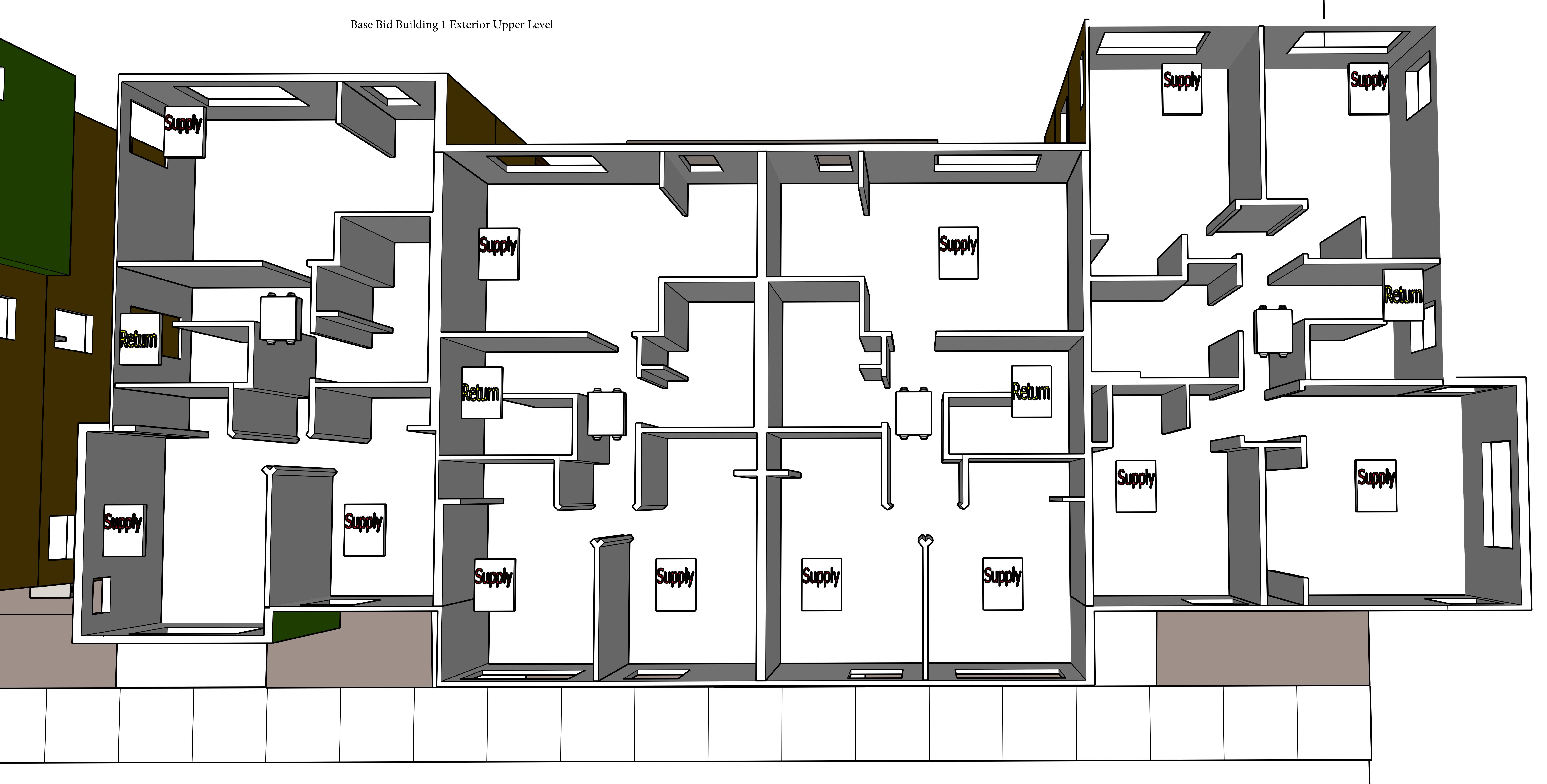
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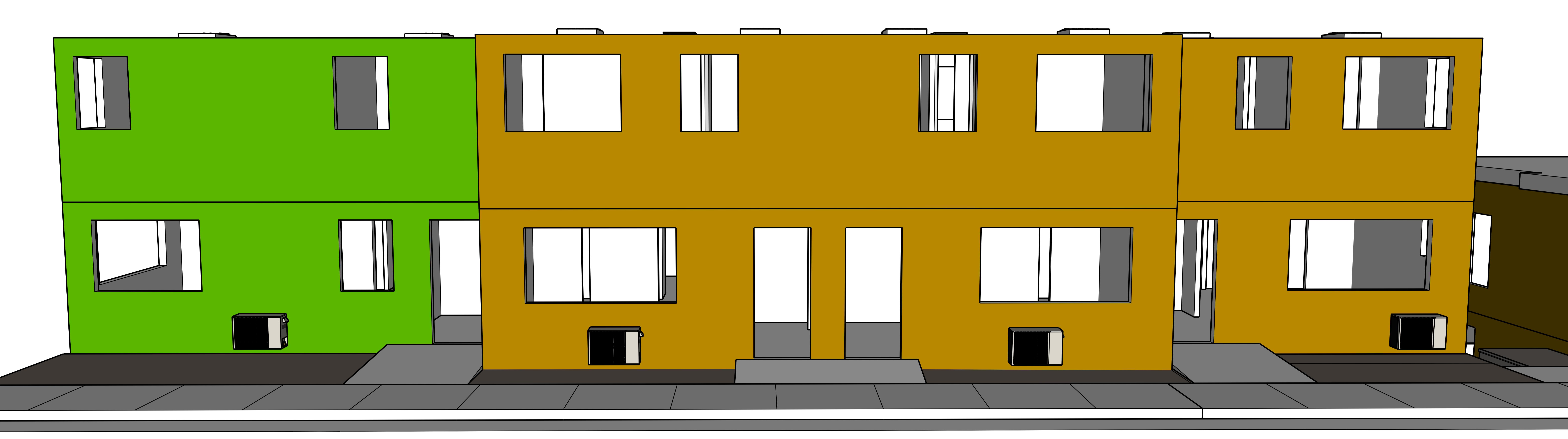













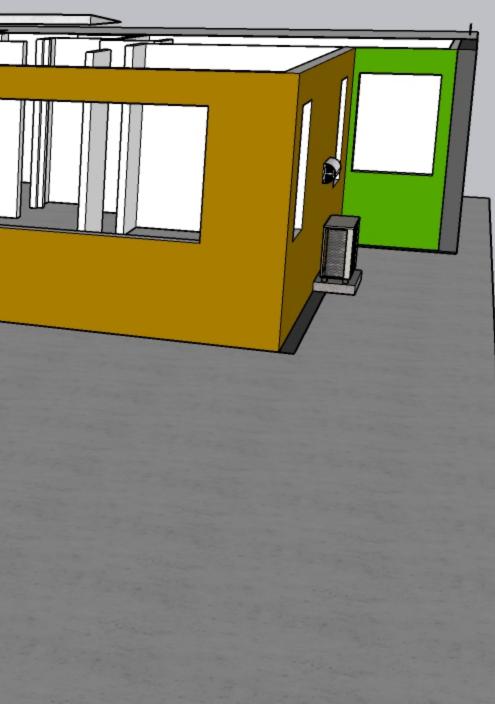
Base Bid Building 2 Exterior Upper Level

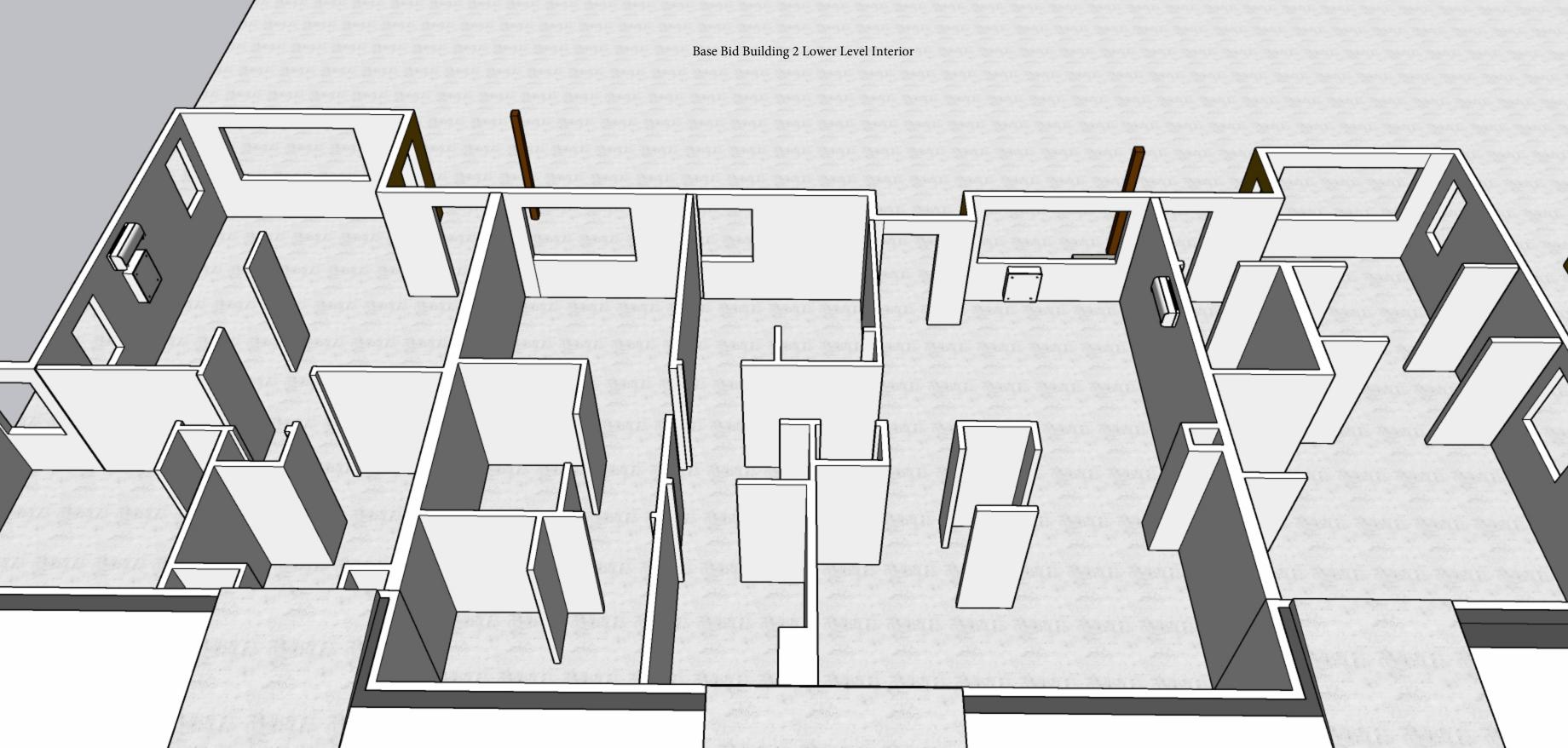




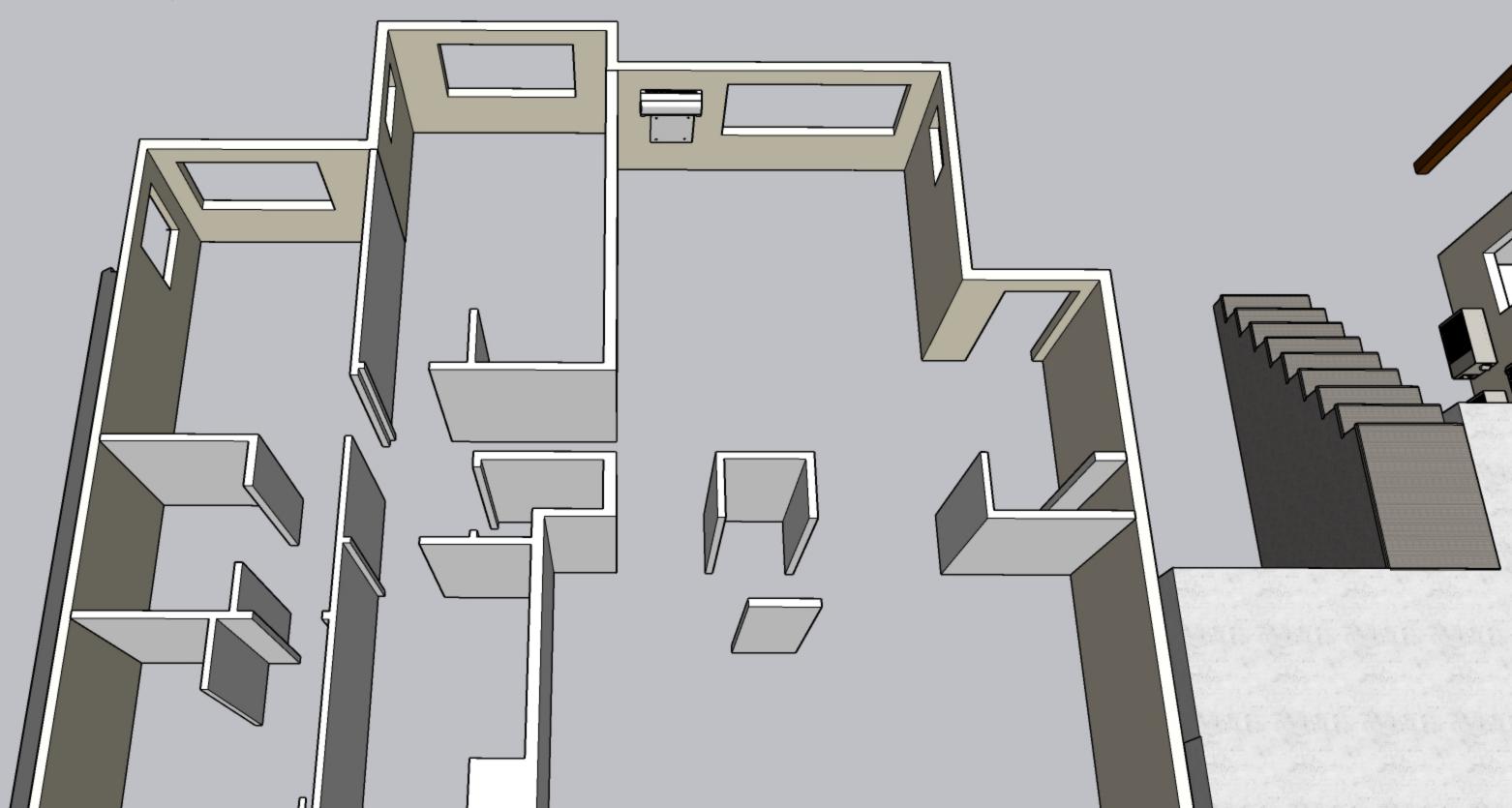


Base Bid Building 2 Lower Level Exterior

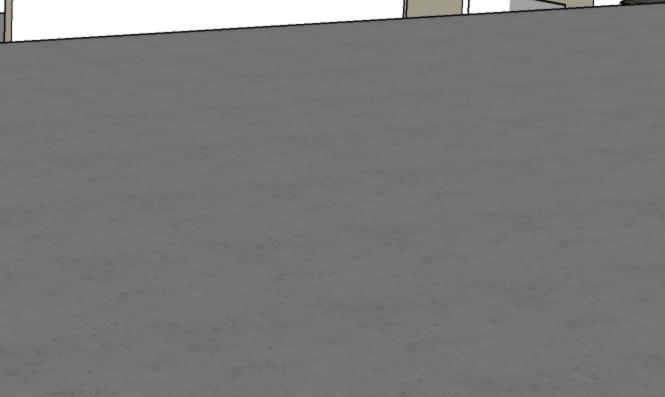




Base Bid Building 3 Lower Level Interior

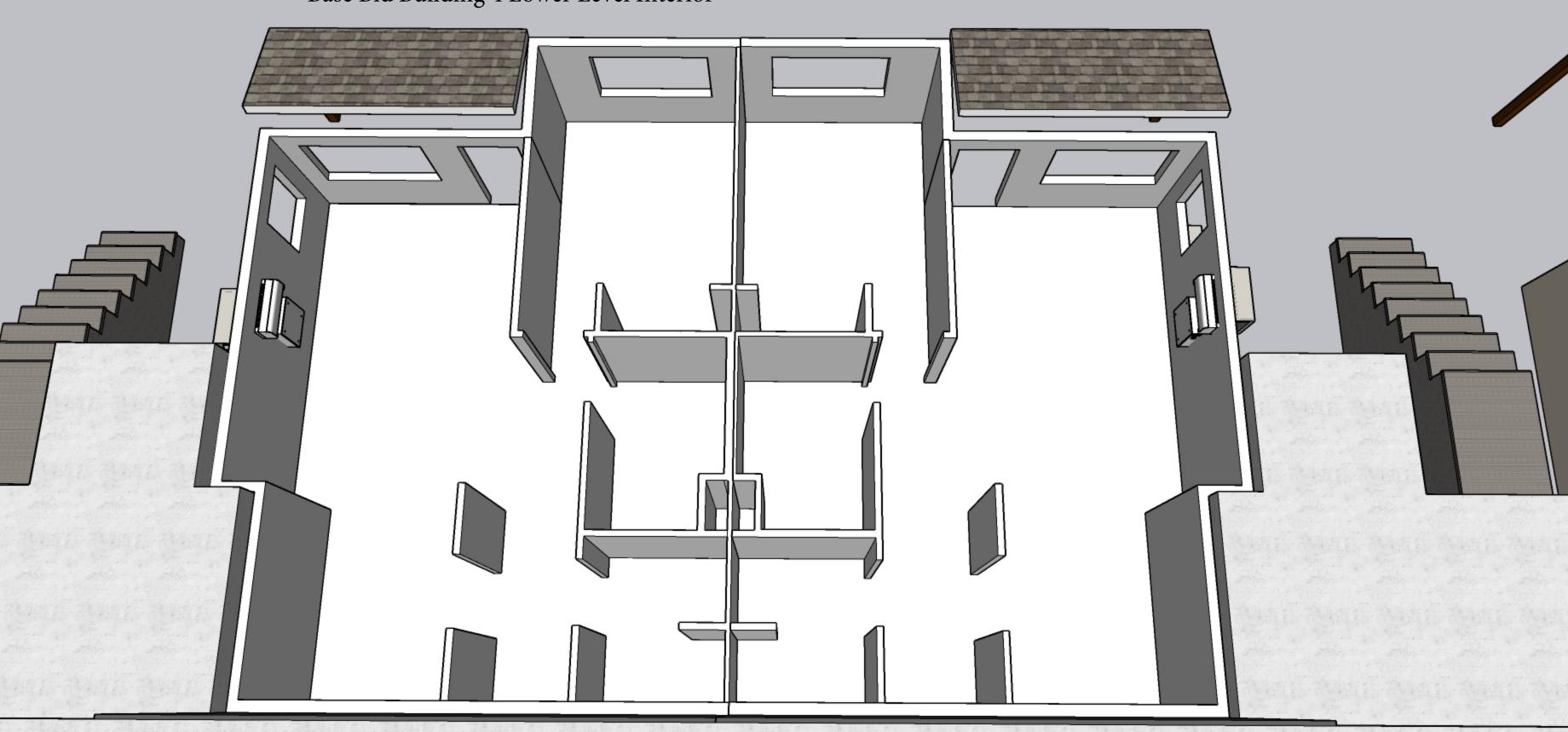


00 Base Bid Building 3 Upper Level Exterior



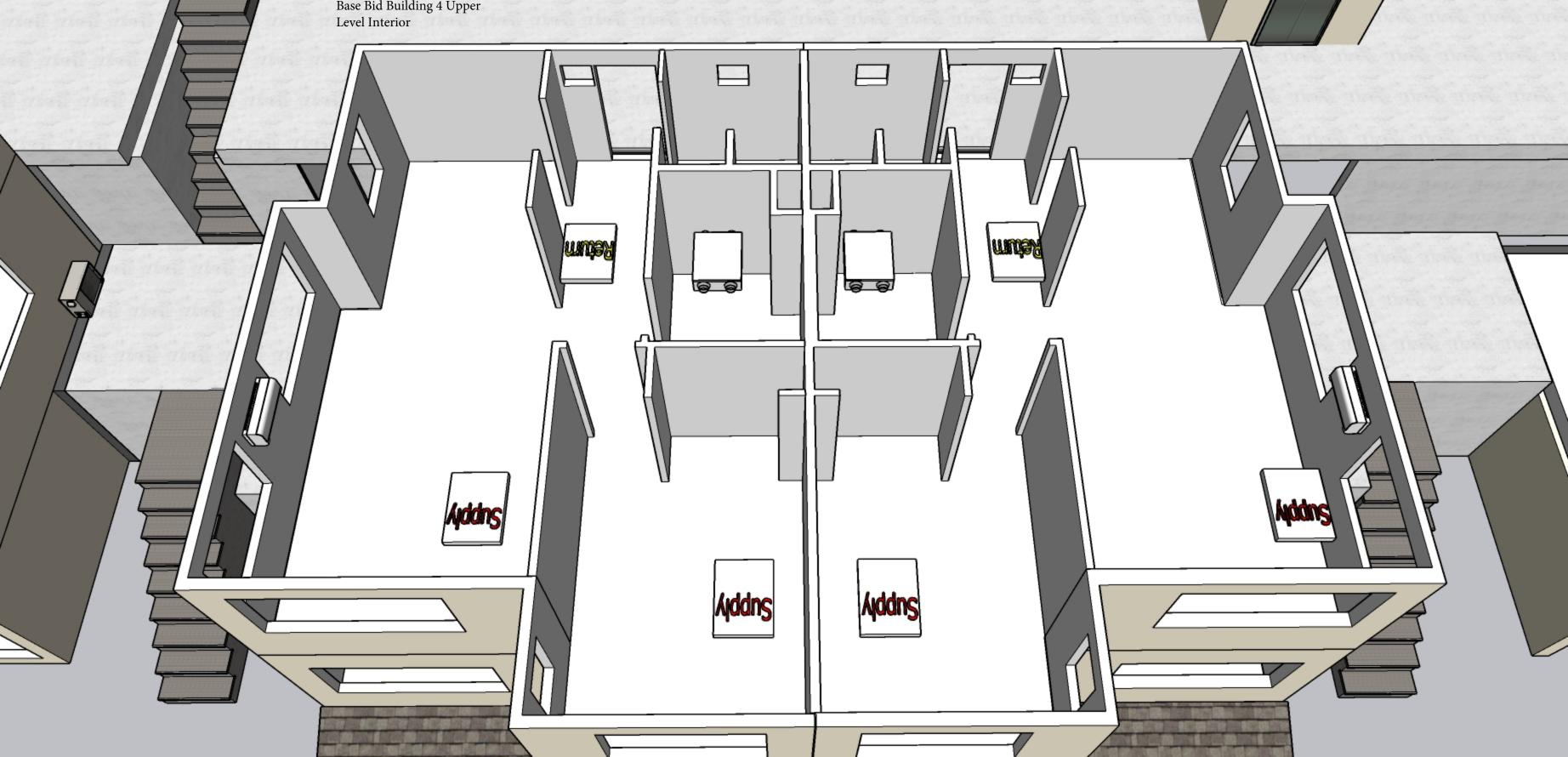


Base Bid Building 4 Lower Level Interior

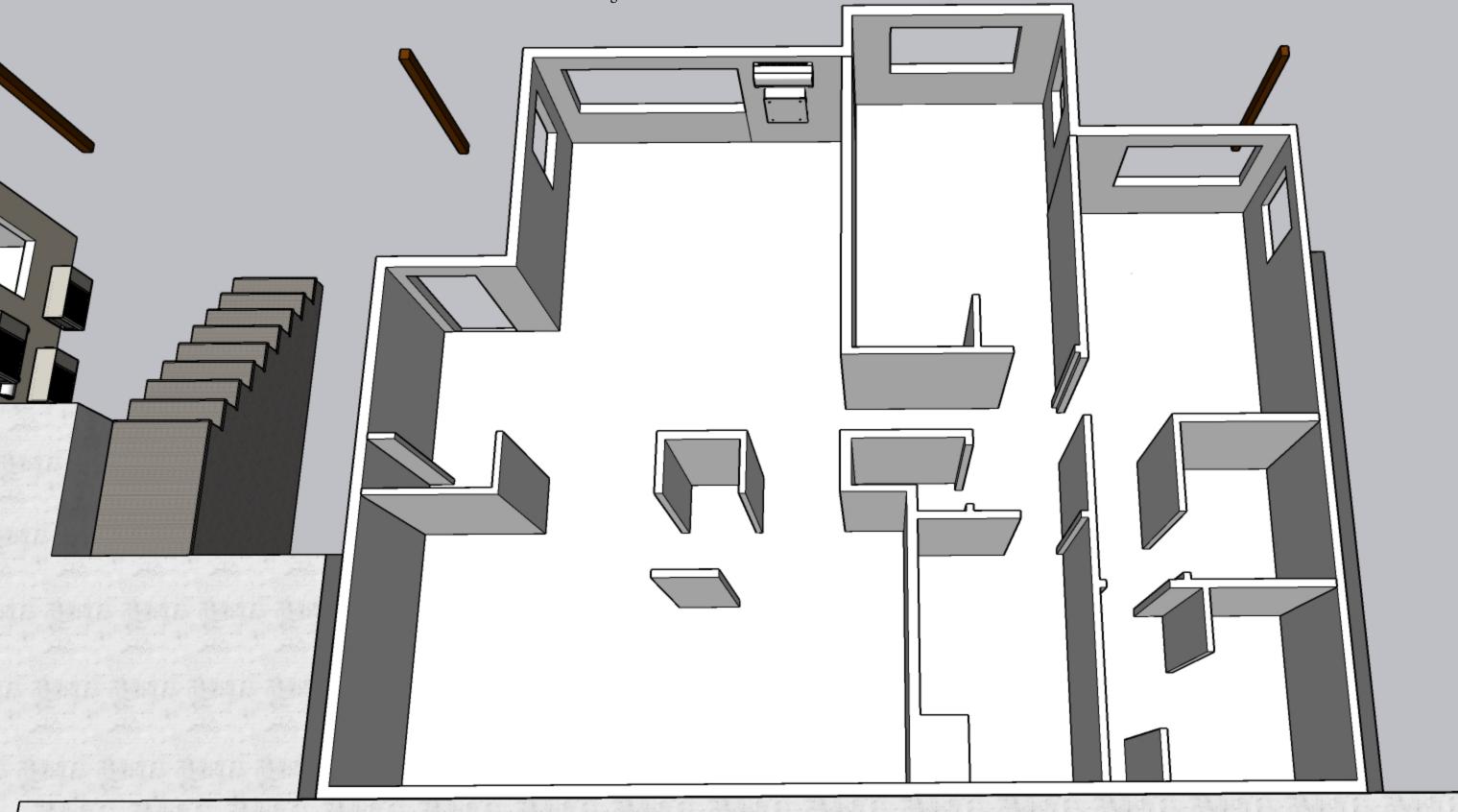


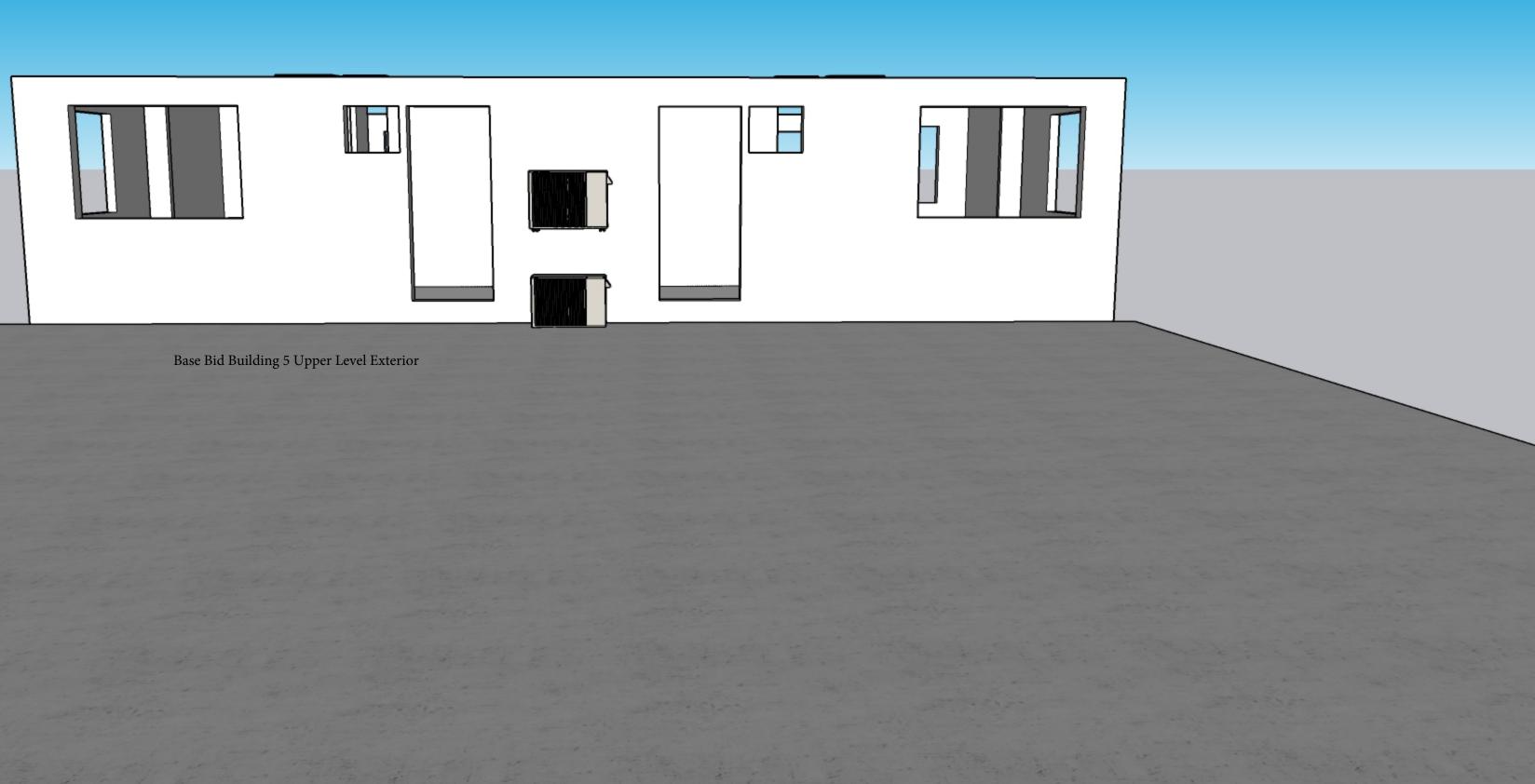






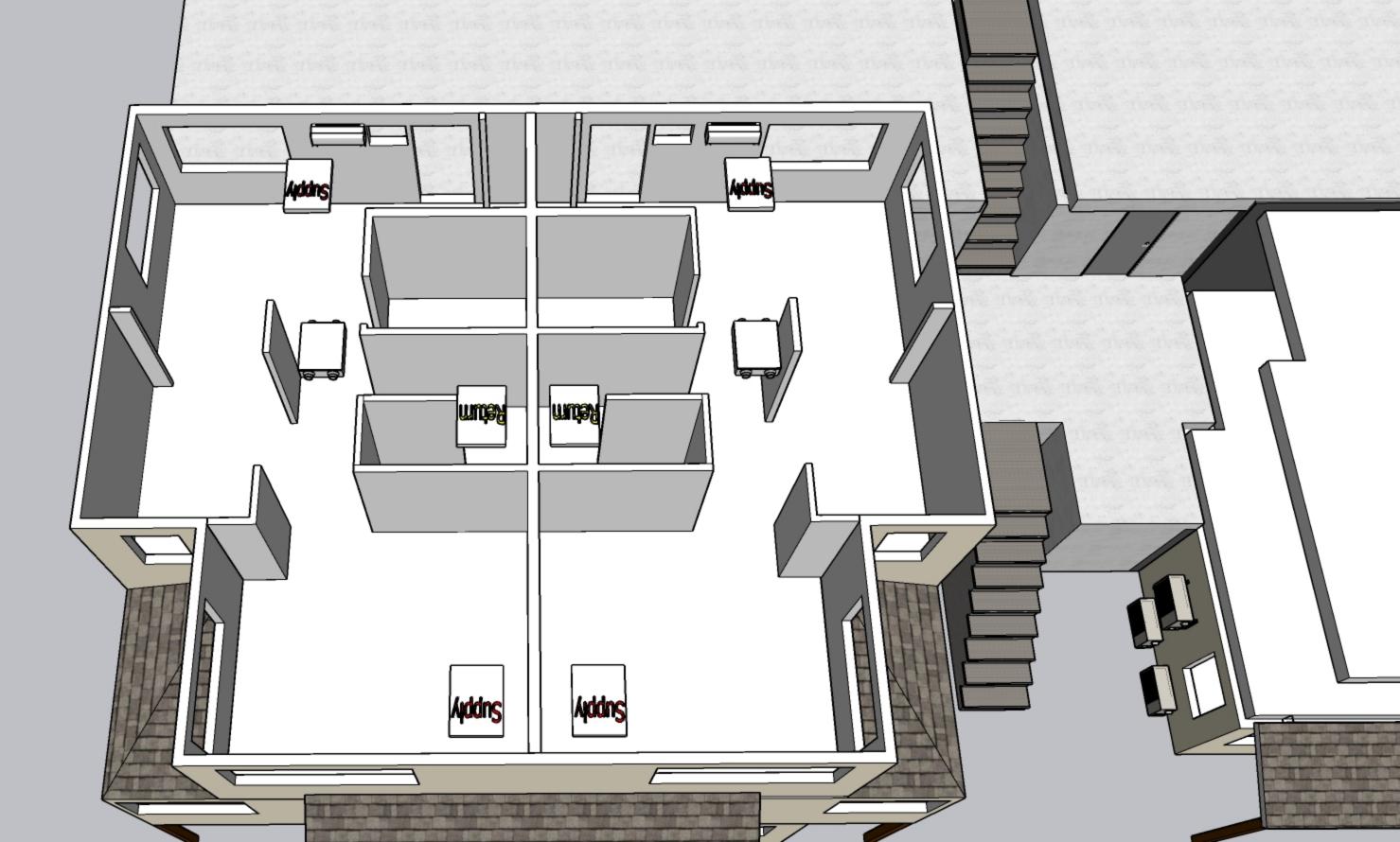
Base Bid Building 5 Lower Level Interior







Base Bid Building 5 Lower Level Exterior

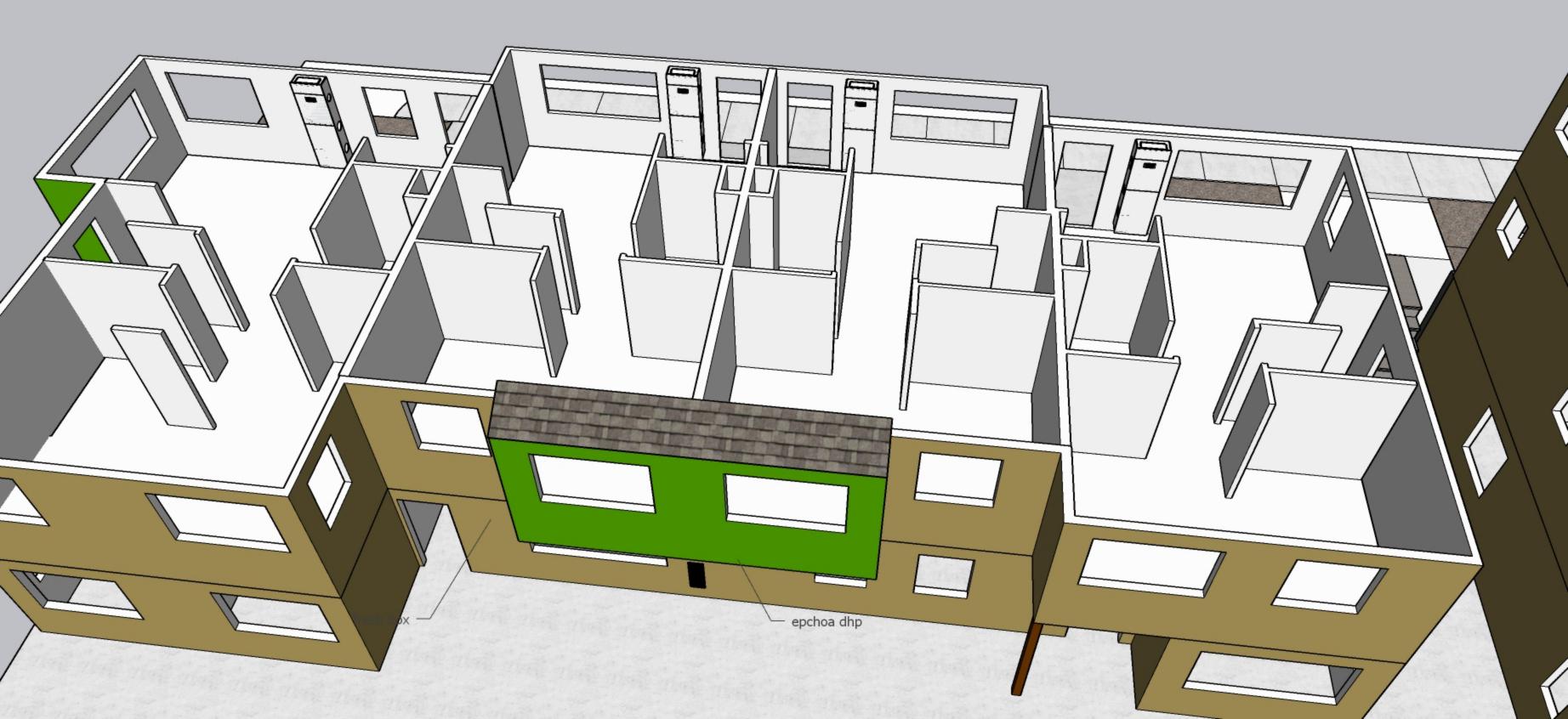


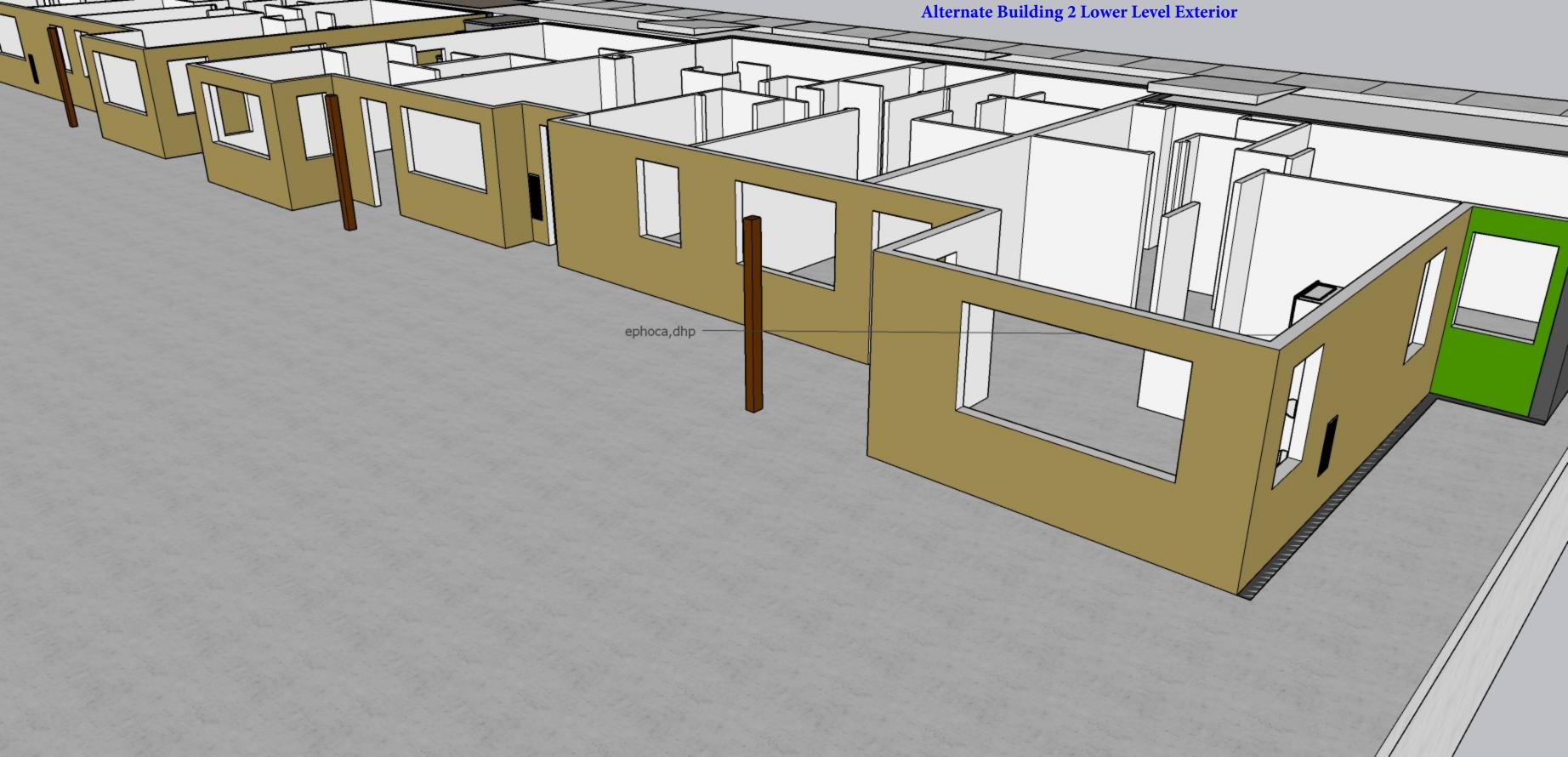


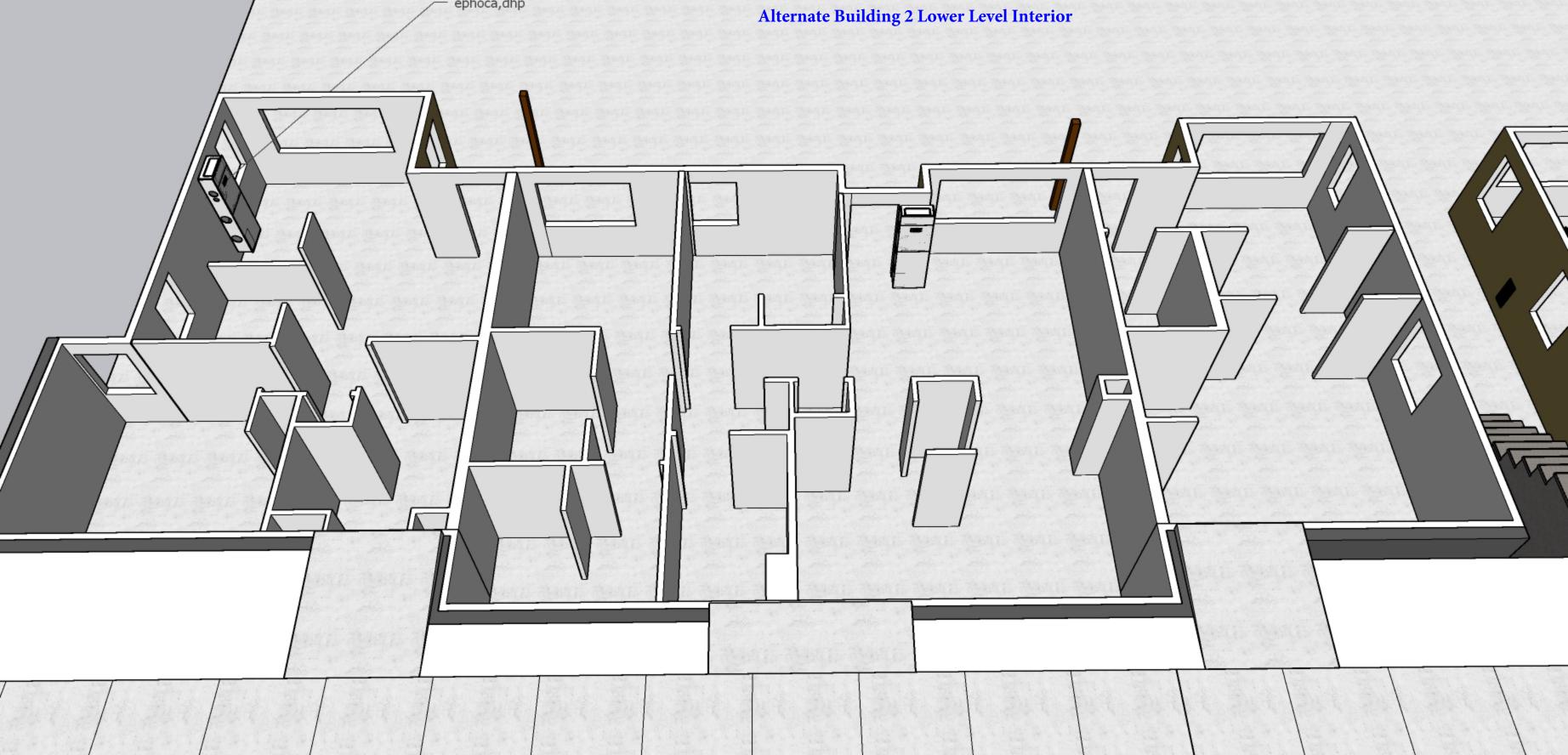


Alternate Building 1 Upper Level Exterior











Alternate Building 2 Upper Level Exterior



