

POWER DISTRIBUTION

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	LIGHTING OR POWER PANEL
	TRANSFORMER
	DISTRIBUTION BOARD
	CODE SIZED JUNCTION BOX WITH COVER PLATE
	GROUNDING ELECTRODE ROD/CONDUCTOR (TW = TEST WELL)
	GROUND BUS BAR (REFER TO DETAILS AND SPECIFICATIONS)

ELECTRICAL DEVICES

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	DEVICE INDICATOR: A=ABOVE COUNTER, WP=WEATHERPROOF, TR=TAMPER RESISTANT, IG=ISOLATED GROUND, CL=CLOCK OUTLET, U=RECEPTACLE WITH USB CHARGING PORTS
	ELECTRICAL DEVICE AS INDICATED, A=ABOVE COUNTER
	DUPLEX RECEPTACLE
	TWO DUPLEX RECEPTACLES IN COMMON BACK BOX AND UNDER COMMON PLATE
	SINGLE RECEPTACLE
	STAGE LIGHTING CONTROL RECEPTACLE
	FLUSH FLOOR BOX WITH DEVICES AS INDICATED
	DUPLEX RECEPTACLE, CEILING MOUNTED
	DUPLEX RECEPTACLE GFCI TYPE
	TWO DUPLEX GFCI RECEPTACLES IN COMMON BACKBOX AND COVERPLATE
	HALF-CONTROLLED DUPLEX RECEPTACLE
	HALF CONTROLLED DOUBLE DUPLEX RECEPTACLE
	HALF-CONTROLLED DUPLEX RECEPTACLE GFCI
	ELECTRICAL AND DATA POWER POLE MINIMUM 12-FOOT TALL
	SPECIAL RECEPTACLE TYPE TO MATCH EQUIP SERVED, VERIFY REQUIREMENTS
	SURFACE METAL RACEWAY WITH DEVICES AS INDICATED, PROVIDE COMPLETE DEVICES, FITTINGS AND ASSEMBLIES. OC. SPACING OF DEVICES ARE AS NOTED ON PLANS.
	POKE-THRU DEVICE WITH DEVICES AS NOTED ON PLANS
	CORD REEL WITH EQUIPMENT. SEE PLANS FOR EQUIPMENT TYPE
	CORD DROP WITH EQUIPMENT. SEE PLANS FOR EQUIPMENT TYPE
	SINGLE PUSH BUTTON
	PUSH BUTTON SWITCH TO MATCH EQUIPMENT STARTER AND CONTROLLER
	RED EMERGENCY SHUT-OFF PUSH BUTTON

ELECTRICAL-MECHANICAL

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	MECHANICAL EQUIPMENT LABEL.
	EQUIPMENT DIRECT CONNECTION.
	MOTOR CONNECTION
	NON-FUSED DISCONNECT SWITCH, RATING AS SHOWN (3-POLE, UNO)
	FUSED DISCONNECT SWITCH, REFER TO SCHEDULE FOR SWITCH RATING AND FUSE SIZE (3-POLE, UNLESS NOTED OTHERWISE)
	MOTOR-RATED SWITCH
	ENCLOSED CIRCUIT BREAKER DISCONNECT
	MANUAL MOTOR STARTER WITH OVERLOAD PROTECTION
	VARIABLE FREQUENCY DRIVE (VFD) (FURNISHED BY M.C.)
	THERMOSTAT
	SOLENOID VALVE

FIRE ALARM

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	FIRE ALARM CONTROL PANEL
	FIRE ALARM LCD ANNUNCIATOR
	FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT PANEL
	FIRE ALARM GRAPHIC MAP
	FIRE ALARM SMOKE DETECTOR, S=SOUNDER BASE
	FIRE ALARM COMBO SMOKE/CARBON MONOXIDE, S=SNDR BASE
	FIRE ALARM SMOKE DETECTOR, DUCT TYPE
	REMOTE INDICATOR/TEST STATION
	FIRE ALARM HEAT DETECTOR
	FIRE ALARM RELAY MODULE
	SPRINKLER FLOW SWITCH, PROVIDE POINT MODULE
	SPRINKLER TAMPER SWITCH, PROVIDE POINT MODULE
	SPRINKLER PRESSURE HI/LOW SWITCH, PROVIDE POINT MODULE
	POST INDICATOR VALVE, PROVIDE POINT MODULE
	FIRE ALARM CONNECTION, TYPE AS NOTED ON PLANS
	FIRE ALARM MANUAL PULL STATION, DUAL ACTION WITH COVER
	FIRE ALARM DOOR HOLDER
	COMBINATION FIRE/SMOKE DAMPER CONNECTION
	WALL MOUNTED FIRE ALARM AUDIO/VISUAL
	WALL MOUNTED FIRE ALARM AUDIO, LF = LOW FREQUENCY
	WALL MOUNT FIRE ALARM VISUAL
	CEILING MOUNTED FIRE ALARM AUDIO/VISUAL
	CEILING MOUNTED FIRE ALARM VISUAL

APPLICABLE CODES

- 2021 INTERNATIONAL BUILDING CODE
- 2021 WASHINGTON STATE ENERGY CODE
- 2021 INTERNATIONAL FIRE CODE
- 2023 NATIONAL ELECTRICAL CODE (NEC)
- WASHINGTON STATE ADMINISTRATIVE CODE (WAC)
- NATIONAL FIRE PROTECTION ASSOCIATION 72 (NFPA)

GENERAL NOTES

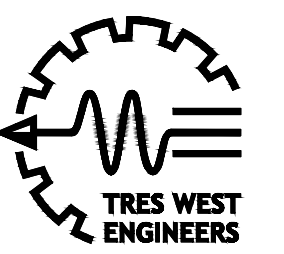
1. E.C. TO PROVIDE ALL MATERIAL AND LABOR FOR MAINTAINING FIRE RATING OF WALLS IN AREAS WHERE ELECTRICAL DEVICES PENETRATE IN OR THROUGH. REFER TO OTHER SHEETS FOR ALL ELECTRICAL WORK REQUIREMENTS SHOWN IN ALL NOTES. ALL NOTES APPLY.
2. ALL FLUSH MOUNT EQUIPMENT, CABINET AND PANEL BOARD SHALL HAVE FACTORY TYPE FLUSH MOUNT TRIM KIT FOR COMPLETE INSTALLATION.
3. PROVIDE COMPLETE WORK FOR REQUIREMENTS AS DESCRIBED ON LEGEND.
4. CIRCUITS, WIRE SIZE AND WIRE HASH MARKS ARE SHOWN FOR CIRCUIT CLARITY, BUT MAY NOT NECESSARILY REPRESENT THE COMPLETE WIRING COUNTS AND MINIMUM SIZES FOR CONNECTING THE CIRCUITS SHOWN. E.C. TO INCLUDE IN THE BID, ALL THE REQUIRED WIRING SIZES AND NUMBER OF CONDUCTORS IN ORDER TO INSTALL ALL CIRCUITS SHOWN AS NECESSARY.
5. ALL ONE LINES, RISERS, AND CONDUIT ROUTING ARE SCHEMATICS AND ARE NOT SHOWING EXACT PHYSICAL ARRANGEMENT OF EQUIPMENT. WHERE INDICATED ON DRAWINGS ALL JUNCTION BOXES AND PULL BOXES ARE MINIMUM REQUIREMENTS. ELECTRICAL CONTRACTOR TO PROVIDE ALL OTHER FITTINGS AND PULL BOXES OF ADEQUATE SIZE IN THE RACEWAY SYSTEM WHEREVER NECESSARY OR REQUIRED BY NATIONAL ELECTRICAL CODE. PROVIDE EXPANSION JOINT FITTINGS FOR CONDUITS PASSING THROUGH NEW OR EXISTING EXPANSION JOINTS INSTALLED BETWEEN BUILDING. VERIFY EXACT LOCATIONS AND DETAILS OF EXPANSION JOINTS PRIOR TO WORK. COORDINATE ALL CONDUIT ROUTING, PULL BOX AND EQUIPMENT LOCATIONS. ALL EMPTY CONDUITS SHALL HAVE PULL WIRES.
6. CONTRACTOR SHALL PROVIDE ALL WALL OR ROOF PENETRATIONS AND SEALING AS REQUIRED FOR ROUTING OF RACEWAY SYSTEMS.
7. E.C. SHALL BE RESPONSIBLE FOR COORDINATION OF ALL AREA'S THAT REQUIRE CUTTING AND PATCHING OF EXISTING AREAS WHERE ELECTRICAL WORK IS REQUIRED FOR CONDUIT INSTALLATION. ELECTRICAL CONTRACTOR IS RESPONSIBLE AND WILL PROVIDE ALL CUTTING, PATCHING AND FINAL FINISH.
8. E.C. SHALL BE RESPONSIBLE FOR COORDINATION OF ALL AREA'S THAT REQUIRE FLEX CONDUIT AND FITTINGS FOR SEISMIC JOINTS.
9. CONTRACTOR IS REQUIRED TO VISIT THE SITE PRIOR TO BID AND BECOME FAMILIAR WITH REQUIREMENTS FOR ROUTING NEW FEEDER CONDUITS AND BRANCH CIRCUIT CONDUIT OR WIREMOLD TO NEW PANELS.

ABBREVIATIONS

ABBRV	DESCRIPTION	ABBRV	DESCRIPTION
AC	AIR CONDITIONER	MDP	MAIN DISTRIBUTION PANEL
AFF	ABOVE FINISHED FLOOR	M.C.	MECHANICAL CONTRACTOR
ATS	AUTOMATIC TRANSFER SWITCH	MLO	MAIN LUG ONLY
AL	ALUMINUM	MW	MICROWAVE
BKR	BREAKER	N	NEW
C	CONDUIT	NTS	NOT TO SCALE
CKT	CIRCUIT	OL	OVER LOAD
C.O.	CONDUIT AND PULL WIRE ONLY	PNL	PANEL
COMM	COMMUNICATION	PS	PROJECTION SCREEN
CU	COPPER	RE	REMOVE EXISTING EQUIPMENT
DS	DISCONNECT SWITCH	REF	REFRIGERATOR
DW	DISH WASHER	RH	RANGE HOOD
E	EXISTING EQUIPMENT TO REMAIN	RNG	RANGE
EA	EACH	RR	REMOVE AND RELOCATE EXISTING
E.C.	ELECTRICAL CONTRACTOR	SDP	SECONDARY DISTRIBUTION PNL
EF	EXHAUST FAN	SPD	SURGE PROTECTION DEVICE
EQP	EQUIPMENT	SPECS	SPECIFICATIONS
F	FURNACE	SW	SWITCH
G.C.	GENERAL CONTRACTOR	TEL	TELEPHONE
GD	GARBAGE DISPOSAL	TELCOM	TELECOMMUNICATION
GFI	GROUND FAULT INTERRUPTER	THRU	THROUGH
GRS	GALVANIZED RIGID STEEL	TYP	TYPICAL
IDF	INTERMEDIATE DISTRIBUTION FRAME	W	WASHER
IR	IRRIGATION	WH	WATER HEATER
LTG	LIGHTING	WP	WEATHER PROOF
LCP	LIGHTING CONTROL PANEL	UG	UNDERGROUND
MDF	MAIN DISTRIBUTION FRAME	XFMR	TRANSFORMER

DRAWING INDEX

SHEET NO.	SHEET TITLE
E001	ELECTRICAL LEGEND AND GENERAL NOTES
E002	ELECTRICAL MECHANICAL SCHEDULES
E201	ELECTRICAL FIRST FLOOR PLAN
E202	ELECTRICAL SECOND FLOOR PLAN
E203	ELECTRICAL THIRD FLOOR PLAN
E204	ELECTRICAL ATTIC PLAN
E601	TYPICAL ENLARGED DWELLING UNIT FLOOR PLANS
E800	ELECTRICAL ONE-LINE DIAGRAM
E900	ELECTRICAL PANEL SCHEDULES



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04/30/2026

PROJECT TITLE
BRITTANY PARK
KING COUNTY
HOUSING AUTHORITY
HVAC UPGRADES

PROJECT ADDRESS
18265 1st ave. south
Normandy Park,
WA. 98148

KEY PLAN

REVISION DATE
DWG ISSUE 04/30/2026
ISSUED DATE

SHEET TITLE
ELECTRICAL
LEGEND AND
GENERAL
NOTES

DRAWN BCY
CHECKED RWA
TWE JOB # 250603
CLIENT JOB #
SHEET SCALE

SHEET NUMBER
E001
SHEET OF XXX

PANEL (E)OLD 1 BR		LOCATION: 1 BEDROOM OLD UNIT SERVING: 1 BEDROOM - DWELLING UNIT FED FROM: METER CENTER (REFER TO ONE-LINE)				208/120 VOLT 125 AMP MAIN LUGS ONLY SCCR: 10,000 A 1 PHASE AFC. 3 WIRE MOUNTING: FLUSH				
CKT	LOAD DESCRIPTION	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD DESCRIPTION	CKT
1	RANGE	A	0.000	E50/2	A	E20/1	0.000	R	KITCHEN COUNTER - REC	2
3	-	-	-	-	B	E20/1	0.000	R	KITCHEN COUNTER - REC	4
5	LIVING ROOM HEATER	H	0.000	E30/2	A	E20/1	0.000	R	BATHROOM & BEDROOM - REC	6
7	-	-	-	-	B	E20/1	0.000	L	LIGHTING	8
9	BATHROOM & BED ROOM HEATERS	H	0.000	E15/2	A	E20/1	0.000	L	LIGHTING	10
11	-	-	-	-	B	E20/1	-	S	SPACE	12
PHASE LOAD		PHASE A=	0.00	KVA	PHASE B=	0.00	KVA			
LOAD TYPE	L	R	M	H	WH	D	A	K	LM	TOTAL LOADS
CONN. LOAD	0.00	0.00		0.00			0.00			0.00 KVA 0.00 AMP
CALC. LOAD	0.00	0.00		0.00			0.00			0.00 KVA 0.00 AMP
NOTES: A = AFCI CIRCUIT BREAKER D = DFCI CIRCUIT BREAKER G = GFCI CIRCUIT BREAKER E = EXISTING BREAKER										

PANEL (E) UPG 1 BR		LOCATION: UPGRADED 1 BEDROOM UNIT SERVING: 1 BEDROOM - DWELLING UNIT FED FROM: METER CENTER (REFER TO ONE-LINE)				208/120 VOLT 125 AMP MAIN LUGS ONLY SCCR: 10,000 A 1 PHASE AFC. 3 WIRE MOUNTING: FLUSH				
CKT	LOAD DESCRIPTION	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD DESCRIPTION	CKT
1	LIGHTING & OUTLETS	R	0.000	E20/1	A	E20/1	0.000	R	KITCHEN COUNTER - REC	2
3	LIGHTING & OUTLETS	R	0.000	E20/1	B	E20/1	0.000	R	KITCHEN COUNTER - REC	4
5	BATHROOM & BED ROOM HEATERS	H	0.000	E15/2	A	E40/2	0.000	A	RANGE	6
7	-	-	-	-	B	-	-	-	-	8
9	LIVING ROOM HEATERS	H	0.000	E20/2	A	E20/1	-	S	SPACE	10
11	-	-	-	-	B	E20/1	-	S	SPACE	12
13	SPACE	S	-	E20/1	A	E20/1	-	S	SPACE	14
15	SPACE	S	-	E20/1	B	E20/1	-	S	SPACE	16
17	SPACE	S	-	E20/1	A	E20/1	-	S	SPACE	18
19	SPACE	S	-	E20/1	B	E20/1	-	S	SPACE	20
21	SPACE	S	-	E20/1	A	E20/1	-	S	SPACE	22
23	SPACE	S	-	E20/1	B	E20/1	-	S	SPACE	24
PHASE LOAD		PHASE A=	0.00	KVA	PHASE B=	0.00	KVA			
LOAD TYPE	L	R	M	H	WH	D	A	K	LM	TOTAL LOADS
CONN. LOAD		0.00		0.00			0.00			0.00 KVA 0.00 AMP
CALC. LOAD		0.00		0.00			0.00			0.00 KVA 0.00 AMP
NOTES: A = AFCI CIRCUIT BREAKER D = DFCI CIRCUIT BREAKER G = GFCI CIRCUIT BREAKER E = EXISTING BREAKER UPG = UPGRADED DWELLING UNIT										

PANEL REV 1 BR		LOCATION: 1 BEDROOM OLD UNIT SERVING: 1 BEDROOM - DWELLING UNIT FED FROM: METER CENTER (REFER TO ONE-LINE)				208/120 VOLT 125 AMP MAIN LUGS ONLY SCCR: 10,000 A 1 PHASE AFC. 3 WIRE MOUNTING: FLUSH				
CKT	LOAD DESCRIPTION	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD DESCRIPTION	CKT
1	LIGHTING & OUTLETS	R	0.000	E20/1	A	E20/1	0.000	R	KITCHEN COUNTER - REC	2
3	LIGHTING & OUTLETS	R	0.000	E20/1	B	E20/1	0.000	R	KITCHEN COUNTER - REC	4
5	BATHROOM & BED ROOM HEATERS	H	0.000	E15/2	A	E40/2	0.000	A	RANGE	6
7	-	-	-	-	B	-	-	-	-	8
9	SPARE	S	-	E20/2	A	E20/1	-	S	SPACE	10
11	-	-	-	-	B	E20/1	-	S	SPACE	12
13	LIVING & BEDROOM HEATER	H	0.000	N25/2	A	E20/1	-	S	SPACE	14
15	-	-	-	-	B	E20/1	-	S	SPACE	16
17	SPACE	S	-	E20/1	A	E20/1	-	S	SPACE	18
19	SPACE	S	-	E20/1	B	E20/1	-	S	SPACE	20
21	SPACE	S	-	E20/1	A	E20/1	-	S	SPACE	22
23	SPACE	S	-	E20/1	B	E20/1	-	S	SPACE	24
PHASE LOAD		PHASE A=	0.00	KVA	PHASE B=	0.00	KVA			
LOAD TYPE	L	R	M	H	WH	D	A	K	LM	TOTAL LOADS
CONN. LOAD		0.00		0.00			0.00			0.00 KVA 0.00 AMP
CALC. LOAD		0.00		0.00			0.00			0.00 KVA 0.00 AMP
NOTES: A = AFCI CIRCUIT BREAKER D = DFCI CIRCUIT BREAKER G = GFCI CIRCUIT BREAKER E = EXISTING BREAKER REV = REVISED EXISTING BOLD N = REPLACE EXISTING SPACE BREAKERS WITH NEW 25/2 AND WIRING TO #10. PROVIDE NEW TYPED INDEX CARD FOR PANELBOARD.										

ELECTRICAL CALCULATION NOTES

- EXISTING (CLASSIC) OLD PANELBOARD LIVING ROOM HEAT DEMAND LOAD IS 14- FEET AT 250WATTS PER FOOT TOTAL OF 3500 WATTS AND 3.5KVA. USING AN EXISTING 30A/2 CIRCUIT BREAKER.
- EXISTING REMODEL (UPGRADED) DWELLING UNIT OR (UPG) PANELBOARD LIVING ROOM HEAT DEMAND LOAD IS 10- FEET AT 250WATTS PER FOOT TOTAL OF 2500 WATTS AND 2.0KVA. USING AN EXISTING 20A/2 CIRCUIT BREAKER.
- PROVIDE A NEW 25A/2P CIRCUIT BREAKER IN EXISTING REMODEL (UPGRADED) PANELBOARD FOR NEW LIVING ROOM HEAT DEMAND LOAD.
- NEW LIVING ROOM HEATER DEMAND LOAD IS 3.33KVA. RECOMMENDED A MOP OF A 25A/2 CIRCUIT BREAKER.

GENERAL NOTES

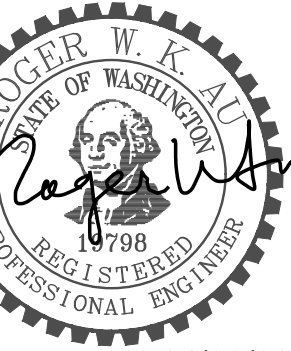
- ALL PANELS SHOWN ARE EXISTING TO REMAIN.
- ALL CONDUCTORS SHALL BE COPPER WIRE UNLESS NOTED OTHERWISE.
- ALL EXTERIOR CONDUIT SHALL BE GRS UNLESS NOTED OTHERWISE.
- PROVIDE WATERTIGHT J-BOXES, LB, AND GRS CONDUIT FOR ALL EXTERIOR RUNS.
- REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- INSTALLATIONS SHALL COMPLY WITH ALL APPLICATIONS ACCESSIBILITY CODES.
- ALL PENETRATIONS IN WALLS SHALL BE SEALED TO THE ORIGINAL RATING OR BETTER.

KCHA - Brittany Park			
Unit #	Unit Type	Unit #	Unit Type
105	Upgraded	213	Upgraded
107	Upgraded	214	Upgraded
110	Classic	215	Upgraded
111	Classic	216	Upgraded
112	Upgraded	217	Classic
113	ADA Upgraded	301	Upgraded
114	Upgraded	302	Classic
115	ADA Upgraded	303	Upgraded
116	Classic	304	Upgraded
117	Upgraded	305	Upgraded
201	Upgraded	306	Classic
202	Upgraded	307	Upgraded
203	Upgraded	308	Upgraded
204	Upgraded	309	Upgraded
205	Upgraded	310	Upgraded
206	Upgraded	311	Upgraded
207	Upgraded	312	Upgraded
209	ADA Upgraded	313	Upgraded
210	Upgraded	314	Upgraded
211	Upgraded	315	Upgraded
212	Upgraded	316	Upgraded
		317	Upgraded
Total Upgraded Units	37	Total Classic Units	6

ELECTRICAL MECHANICAL EQUIPMENT CONNECTION SCHEDULE														
MECHANICAL EQUIPMENT NO.	VOLT/ PHASE	LOAD (A/W/HP)		FLA		LOAD			DISCONNECT		CONDUIT SIZE MIN.		NOTES	
		COOLING LOAD (A)	HEATING LOAD (A)	(A)	(KVA)	MCA	MOP	EKR	FRAME (A)	FUSE (A)	WIRE	BRANCH		HOMERUN
VRF HEAT RECOVERY UNITS														
VHP	208/1	6A	1.8KW	16A	3.33KVA	20A	25.0 A	25/2	30A	25A	2#10,#10G	3/4"	3/4"	
EXHAUST FANS														
EF-5	208/3	2HP		7.5A	0.52 KVA	9.4 A	20.0 A	20/3	30A	20A	4#12, #12G	3/4"	3/4"	PROVIDE POWER AND INTERLOCK RELAY FOR MOTORIZED DAMPER MD-1. REFER TO ELECTRICAL FLOOR PLANS.
EF-6	208/3	3HP		10.6A	0.52 KVA	13.3 A	20.0 A	20/3	30A	20A	4#12, #12G	3/4"	3/4"	PROVIDE POWER AND INTERLOCK RELAY FOR MOTORIZED DAMPER MD-2. REFER TO ELECTRICAL FLOOR PLANS.
MOTORIZED DAMPERS														
MD-1	120/1	1.5W		0.80A	0.01KVA	1A	20.0 A	20/1	MRSW	MRSW	2#12, #12G	3/4"	3/4"	PROVIDE 20A MOTOR RATED SWITCH FOR THE DISCONNECT.
MD-2	120/1	1.5W		0.80A	0.01KVA	1A	20.0 A	20/1	MRSW	MRSW	2#12, #12G	3/4"	3/4"	PROVIDE 20A MOTOR RATED SWITCH FOR THE DISCONNECT.
PUMP														
CP-4	208/3	3/4 HP		3.7A	1.333KVA	4.6 A	15.0 A	15/3	30A	15A	3#12, #12G	3/4"	3/4"	



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BRITTANY PARK
KING COUNTY
HOUSING AUTHORITY
HVAC UPGRADES

PROJECT ADDRESS
18265 1st ave. south
Normandy Park,
WA. 98148

KEY PLAN

REVISION DATE
DWG ISSUE 04/30/2026
ISSUED DATE

SHEET TITLE
ELECTRICAL
MECHANICAL
SCHEDULES

DRAWN BCY
CHECKED RWA
TWE JOB # 250603
CLIENT JOB #
SHEET SCALE

SHEET NUMBER
E002
SHEET OF XXX

GENERAL NOTES

1. ALL PANELS SHOWN ARE EXISTING TO REMAIN.
2. ALL CONDUCTORS SHALL BE COPPER WIRE UNLESS NOTED OTHERWISE.
3. ALL EXTERIOR CONDUIT SHALL BE GRS UNLESS NOTED OTHERWISE.
4. PROVIDE WATERTIGHT J-BOXES, LB, AND GRS CONDUIT FOR ALL EXTERIOR RUNS.
5. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. INSTALLATIONS SHALL COMPLY WITH ALL APPLICATIONS ACCESSIBILITY CODES.
7. ALL PENETRATIONS IN WALLS SHALL BE SEALED TO THE ORIGINAL RATING OR BETTER.

DEMO GENERAL NOTES

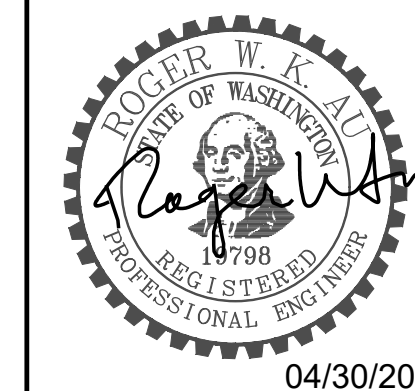
1. EQUIPMENT AND DEVICES SHOWN WITH A (E) ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.
2. EQUIPMENT AND DEVICES SHOWN WITH A (RE) ARE EXISTING TO BE REMOVED, UNLESS NOTED OTHERWISE. REMOVE EXISTING DEVICE, CONDUIT, WIRING, CABLING, BACK TO THE NEAREST J-BOX OR DEVICE. MAINTAIN EXISTING J-BOXES, CIRCUIT, CONDUIT, WIRING, CABLING, AND CONNECTION BACK TO SOURCE. PROVIDE J-BOXES, CONDUIT, CABLING, AND CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM.
3. EXISTING MECHANICAL EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED.
4. EXISTING FIRE ALARM DEVICES TO REMAIN UNLESS OTHERWISE NOTED.

DEMO PLAN NOTES

- ###
- D201 EXISTING ELECTRICAL EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED.
- D202 EXISTING MECHANICAL UNIT AND DISCONNECT SWITCH TO REMAIN.

PLAN NOTES

- ###
- 201 PROVIDE ELECTRICAL PANELBOARD PHENOLIC LABEL PER SPECIFICATIONS AND NEW TYPED INDEX CARD.
- 202 REFER TO ELECTRICAL TYPICAL ENLARGED FLOOR PLAN FOR ADDITIONAL INFORMATION.
- 208 PROVIDE POWER AND FIRE ALARM CONNECTIONS FOR NEW FIRE SMOKE DAMPERS ON 1ST, 2ND, AND 3RD FLOORS. UTILIZE EXISTING FIRE ALARM RELAY MODULE IN THE ATTIC. PROVIDE INTERFACE RELAY, MOTOR RATED SWITCH DISCONNECTS, J-BOXES, CONDUIT, WIRING, AND CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM.



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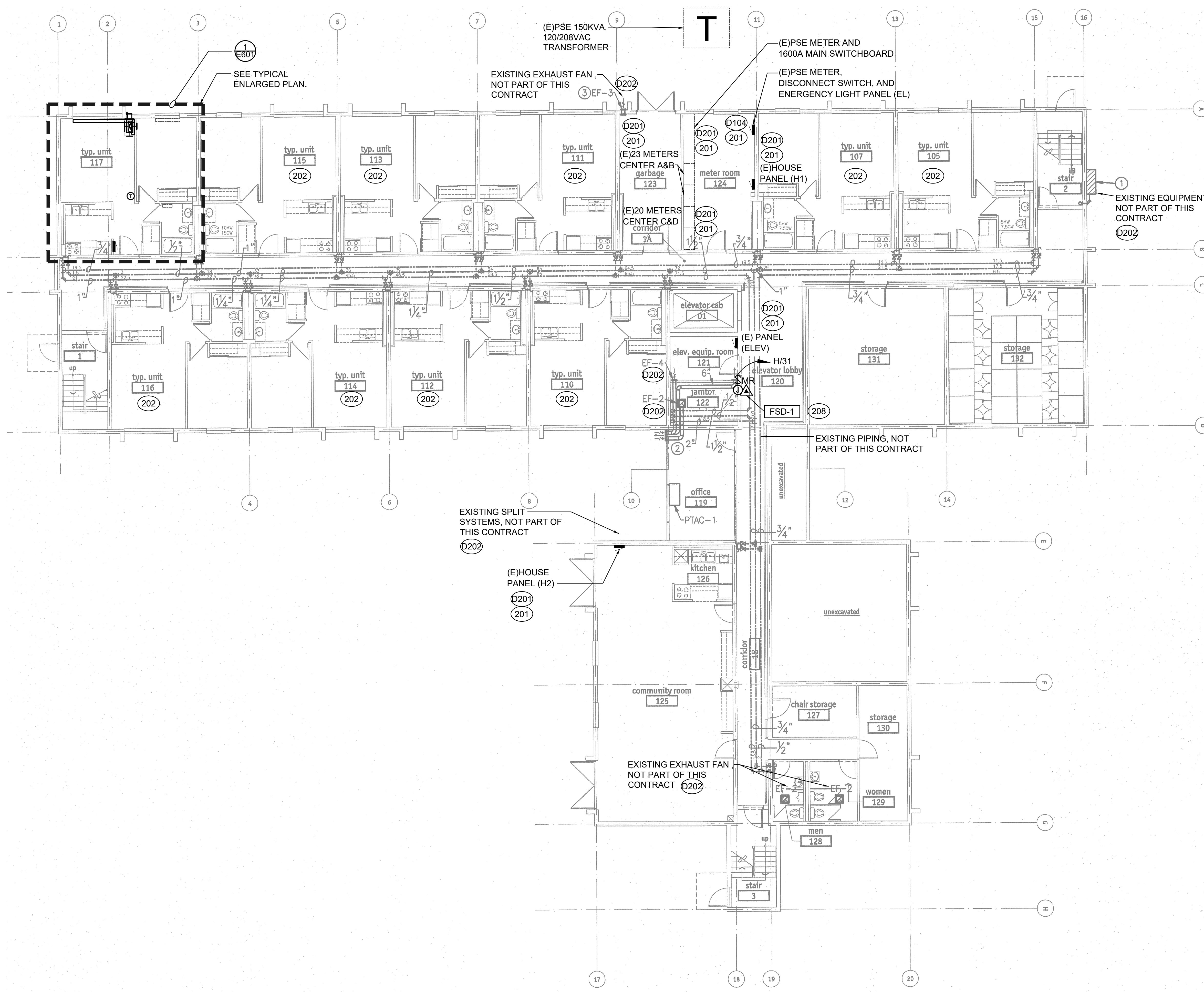
KEY PLAN

REVISION	DATE
DWG ISSUE	04/30/2026
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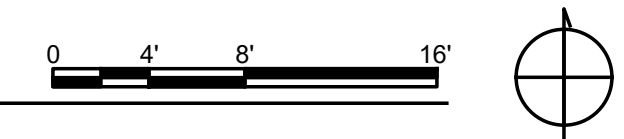
SHEET TITLE
**ELECTRICAL
 FIRST FLOOR
 PLAN**

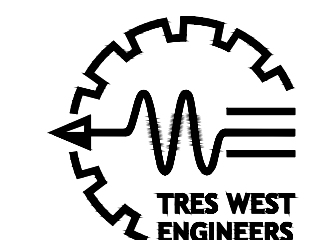
DRAWN BCY
 CHECKED RWA
 TWE JOB # 250603
 CLIENT JOB #
 SHEET SCALE

SHEET NUMBER
E201
 SHEET OF XXX



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





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5. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. INSTALLATIONS SHALL COMPLY WITH ALL APPLICATIONS ACCESSIBILITY CODES.
7. ALL PENETRATIONS IN WALLS SHALL BE SEALED TO THE ORIGINAL RATING OR BETTER.

DEMO GENERAL NOTES

1. EQUIPMENT AND DEVICES SHOWN WITH A (E) ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.
2. EQUIPMENT AND DEVICES SHOWN WITH A (RE) ARE EXISTING TO BE REMOVED, UNLESS NOTED OTHERWISE. REMOVE EXISTING DEVICE, CONDUIT, WIRING, CABLING, BACK TO THE NEAREST J-BOX OR DEVICE. MAINTAIN EXISTING J-BOXES, CIRCUIT, CONDUIT, WIRING, CABLING, AND CONNECTION BACK TO SOURCE. PROVIDE J-BOXES, CONDUIT, CABLING, AND CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM.
3. EXISTING MECHANICAL EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED.
4. EXISTING FIRE ALARM DEVICES TO REMAIN UNLESS OTHERWISE NOTED.

DEMO PLAN NOTES

- ###
- D201 EXISTING ELECTRICAL EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED.
- D202 EXISTING MECHANICAL UNIT AND DISCONNECT SWITCH TO REMAIN.

PLAN NOTES

- ###
- 201 PROVIDE ELECTRICAL PANELBOARD PHENOLIC LABEL PER SPECIFICATIONS AND NEW TYPED INDEX CARD.
- 202 REFER TO ELECTRICAL TYPICAL ENLARGED PLAN FOR ADDITIONAL INFORMATION.
- 208 PROVIDE POWER AND FIRE ALARM CONNECTIONS FOR NEW FIRE SMOKE DAMPERS ON 1ST, 2ND, AND 3RD FLOORS. UTILIZE EXISTING FIRE ALARM RELAY MODULE IN THE ATTIC. PROVIDE INTERFACE RELAY, MOTOR RATED SWITCH DISCONNECTS, J-BOXES, CONDUIT, WIRING, AND CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM.
- 210 PROVIDE FIRE ALARM CONTRACTOR TO COORDINATION CONNECTION, PRE-TEST, AND FINAL TESTING.



04/30/2026

PROJECT TITLE
BRITTANY PARK
KING COUNTY
HOUSING AUTHORITY
HVAC UPGRADES

PROJECT ADDRESS
18265 1st ave. south
Normandy Park,
WA. 98148

KEY PLAN

REVISION	DATE
DWG ISSUE	04/30/2026
ISSUED	DATE

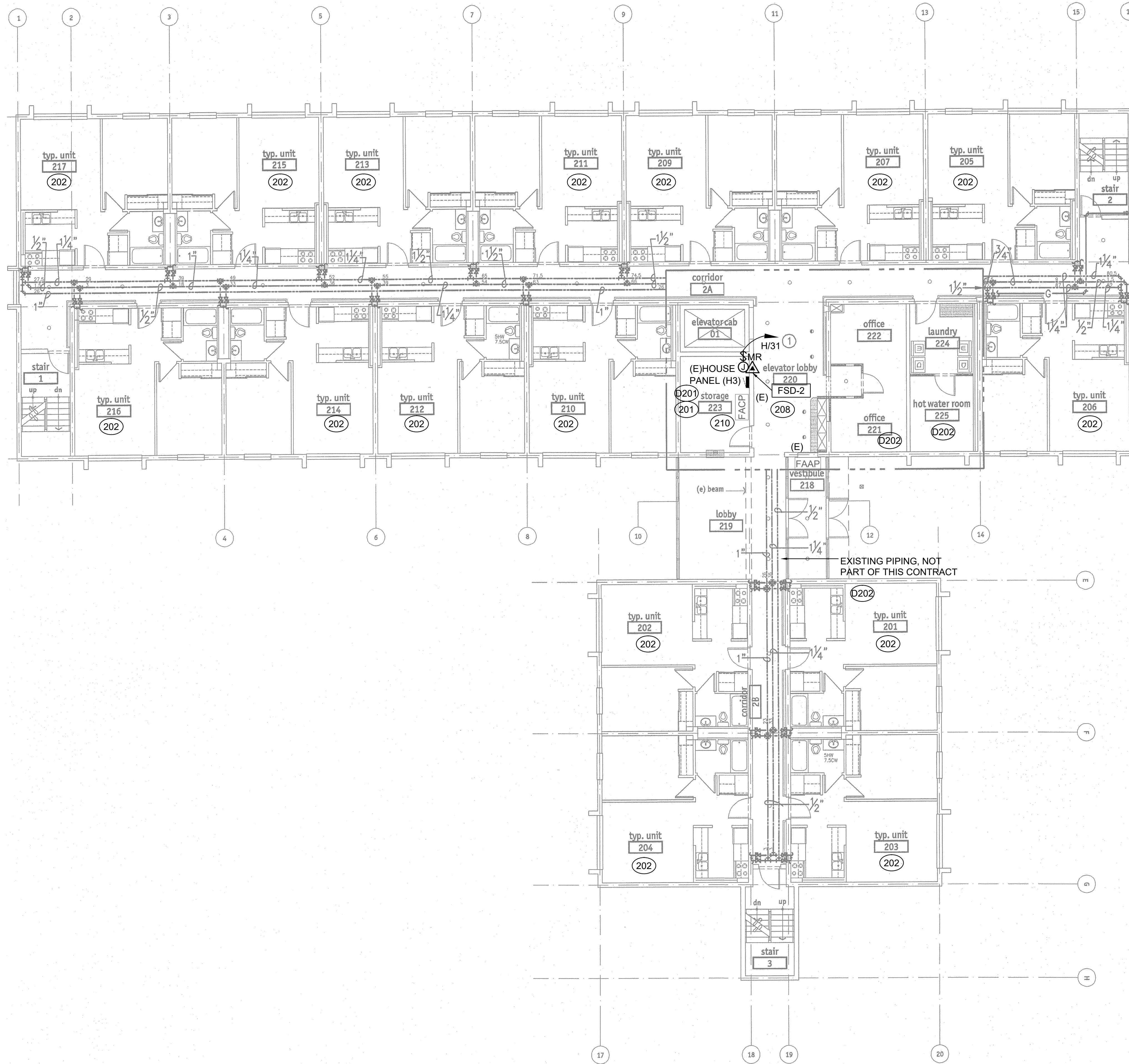
SHEET TITLE

**ELECTRICAL
SECOND FLOOR
PLAN**

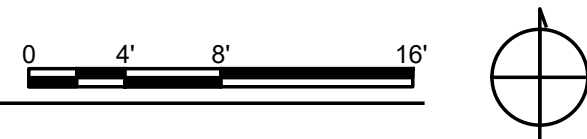
DRAWN	BCY
CHECKED	RWA
TWE JOB #	250603
CLIENT JOB #	
SHEET SCALE	

SHEET NUMBER

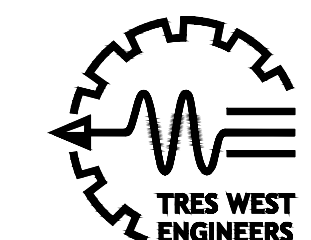
E202
SHEET OF XXX



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



250603_E202 ELECTRICAL SECOND FLOOR PLAN.dwg 3/1/2026 1:1



TRES WEST ENGINEERS, INC.
2702 SOUTH 42ND STREET, SUITE 301
TACOMA, WA 98409-7315
Phone: 253-472-3300
www.treswest.com

GENERAL NOTES

1. ALL PANELS SHOWN ARE EXISTING TO REMAIN.
2. ALL CONDUCTORS SHALL BE COPPER WIRE UNLESS NOTED OTHERWISE.
3. ALL EXTERIOR CONDUIT SHALL BE GRS UNLESS NOTED OTHERWISE.
4. PROVIDE WATERTIGHT J-BOXES, LB, AND GRS CONDUIT FOR ALL EXTERIOR RUNS.
5. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. INSTALLATIONS SHALL COMPLY WITH ALL APPLICATIONS ACCESSIBILITY CODES.
7. ALL PENETRATIONS IN WALLS SHALL BE SEALED TO THE ORIGINAL RATING OR BETTER.

DEMO GENERAL NOTES

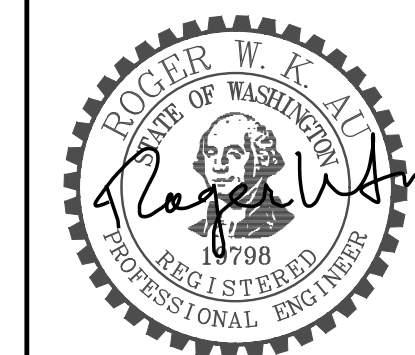
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3. EXISTING MECHANICAL EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED.
4. EXISTING FIRE ALARM DEVICES TO REMAIN UNLESS OTHERWISE NOTED.

DEMO PLAN NOTES

- (###)
D202 EXISTING MECHANICAL UNIT AND DISCONNECT SWITCH TO REMAIN.

PLAN NOTES

- (###)
202 REFER TO ELECTRICAL TYPICAL ENLARGED PLAN FOR ADDITIONAL INFORMATION.
- 208 PROVIDE POWER AND FIRE ALARM CONNECTIONS FOR NEW FIRE SMOKE DAMPERS ON 1ST, 2ND, AND 3RD FLOORS. UTILIZE EXISTING FIRE ALARM RELAY MODULE IN THE ATTIC. PROVIDE INTERFACE RELAY, MOTOR RATED SWITCH DISCONNECTS, J-BOXES, CONDUIT, WIRING, AND CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM.



04/30/2026

PROJECT TITLE
BRITTANY PARK
KING COUNTY
HOUSING AUTHORITY
HVAC UPGRADES

PROJECT ADDRESS
18265 1st ave. south
Normandy Park,
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KEY PLAN

REVISION	DATE
DWG ISSUE	04/30/2026
ISSUED	DATE

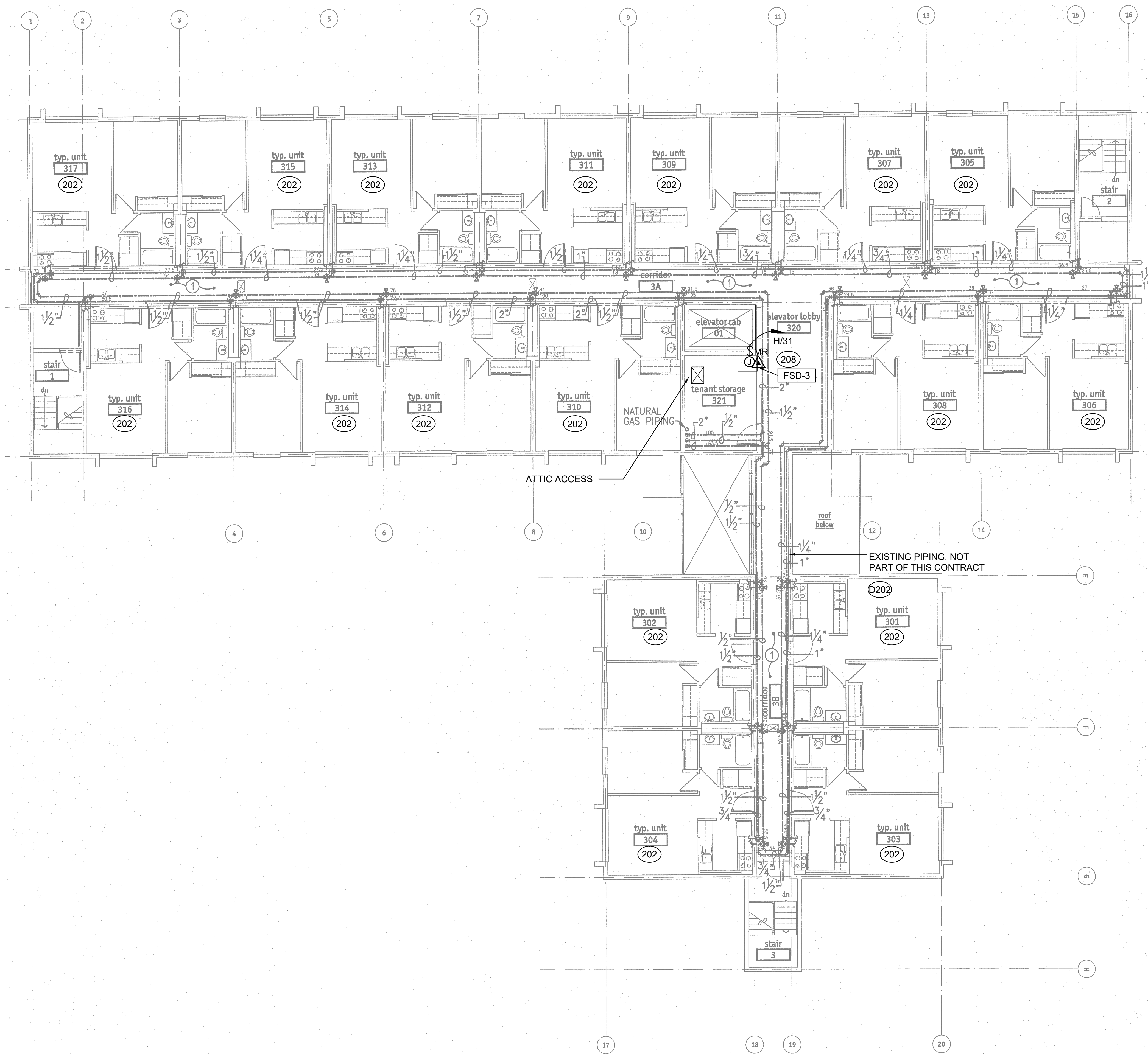
SHEET TITLE
**ELECTRICAL
THIRD FLOOR
PLAN**

DRAWN BCY
CHECKED RWA
TWE JOB # 250603
CLIENT JOB #
SHEET SCALE

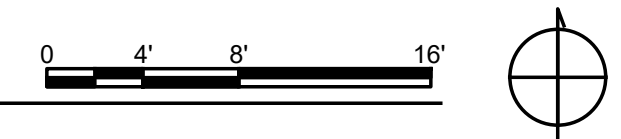
SHEET NUMBER

E203

SHEET OF XXX



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



250603_E203 ELECTRICAL THIRD FLOOR PLAN.dwg 3/1/2026 1:1

GENERAL NOTES

1. ALL PANELS SHOWN ARE EXISTING TO REMAIN.
2. ALL CONDUCTORS SHALL BE COPPER WIRE UNLESS NOTED OTHERWISE.
3. ALL EXTERIOR CONDUIT SHALL BE GRS UNLESS NOTED OTHERWISE.
4. PROVIDE WATERTIGHT J-BOXES, LB, AND GRS CONDUIT FOR ALL EXTERIOR RUNS.
5. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. INSTALLATIONS SHALL COMPLY WITH ALL APPLICATIONS ACCESSIBILITY CODES.
7. ALL PENETRATIONS IN WALLS SHALL BE SEALED TO THE ORIGINAL RATING OR BETTER.

DEMO GENERAL NOTES

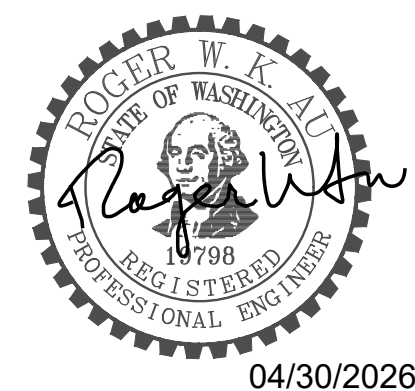
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2. EQUIPMENT AND DEVICES SHOWN WITH A (RE) ARE EXISTING TO BE REMOVED, UNLESS NOTED OTHERWISE. REMOVE EXISTING DEVICE, CONDUIT, WIRING, CABLING, BACK TO THE NEAREST J-BOX OR DEVICE. MAINTAIN EXISTING J-BOXES, CIRCUIT, CONDUIT, WIRING, CABLING, AND CONNECTION BACK TO SOURCE. PROVIDE J-BOXES, CONDUIT, CABLING, AND CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM.
3. EXISTING MECHANICAL EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED.
4. EXISTING FIRE ALARM DEVICES TO REMAIN UNLESS OTHERWISE NOTED.

DEMO PLAN NOTES

- ###
 D202 EXISTING MECHANICAL UNIT AND DISCONNECT SWITCH TO REMAIN.
- D204 ELECTRICAL CONTRACTOR TO DISCONNECT POWER TO EXISTING MECHANICAL EXHAUST FAN UNIT. MAINTAIN EXISTING DISCONNECT SWITCH, J-BOX, CONDUIT, AND WIRING. MAINTAIN EXISTING POWER CIRCUIT, IDENTIFY, AND MARK ALL CIRCUIT NUMBERS. UTILIZE THIS POWER CIRCUIT FOR NEW MECHANICAL DESIGN.
- D205 ELECTRICAL CONTRACTOR TO DISCONNECT POWER TO EXISTING MECHANICAL CIRC. PUMP CP-4 UNIT. MAINTAIN EXISTING DISCONNECT SWITCH, J-BOX, CONDUIT, AND WIRING. MAINTAIN EXISTING POWER CIRCUIT, IDENTIFY, AND MARK ALL CIRCUIT NUMBERS. UTILIZE THIS POWER CIRCUIT FOR NEW MECHANICAL DAMPERS.

PLAN NOTES

- ###
 204 UTILIZE EXISTING 20A/3P CIRCUIT BREAKER IN EXISTING PANELBOARD H3 FOR NEW MECHANICAL EQUIPMENT EF-5. SPLIT THE EF-5 FROM EF-6. PROVIDE DISCONNECT, J-BOXES, CONDUIT, WIRING, AND CONNECTIONS AS REQUIRED FOR THE COMPLETE OPERATIONAL SYSTEM.
- 205 UTILIZE EXISTING 20A/3P CIRCUIT BREAKER IN EXISTING PANELBOARD H3 FOR NEW MECHANICAL EQUIPMENT CP-4. PROVIDE DISCONNECT, J-BOXES, CONDUIT, WIRING, AND CONNECTIONS AS REQUIRED FOR THE COMPLETE OPERATIONAL SYSTEM.
- 206 PROVIDE 20A/3P CIRCUIT BREAKER IN EXISTING PANELBOARD H3 FOR NEW MECHANICAL EQUIPMENT SF-6. PROVIDE DISCONNECT, J-BOXES, CONDUIT, WIRING, AND CONNECTIONS AS REQUIRED FOR THE COMPLETE OPERATIONAL SYSTEM.
- 207 PROVIDE INTERLOCK RELAY, DISCONNECT, J-BOXES, CONDUIT, WIRING, AND CONNECTIONS AS REQUIRED FOR THE COMPLETE OPERATIONAL SYSTEM. REFER TO ELECTRICAL SHEET E002 FOR ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE.
- 208 PROVIDE POWER AND FIRE ALARM CONNECTIONS FOR NEW FIRE SMOKE DAMPERS ON 1ST, 2ND, AND 3RD FLOORS. UTILIZE EXISTING FIRE ALARM RELAY MODULE IN THE ATTIC. PROVIDE INTERFACE RELAY, MOTOR RATED SWITCH DISCONNECTS, J-BOXES, CONDUIT, WIRING, AND CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM.
- 209 TRACE OUT FIRE/SMOKE DAMPER POWER CIRCUIT ON EXISTING PANELBOARD H CIRCUIT 31. PROVIDE NEW TYPED PANEL INDEX CARD.



PROJECT TITLE
 BRITTANY PARK
 KING COUNTY
 HOUSING AUTHORITY
 HVAC UPGRADES

PROJECT ADDRESS
 18265 1st ave. south
 Normandy Park,
 WA. 98148

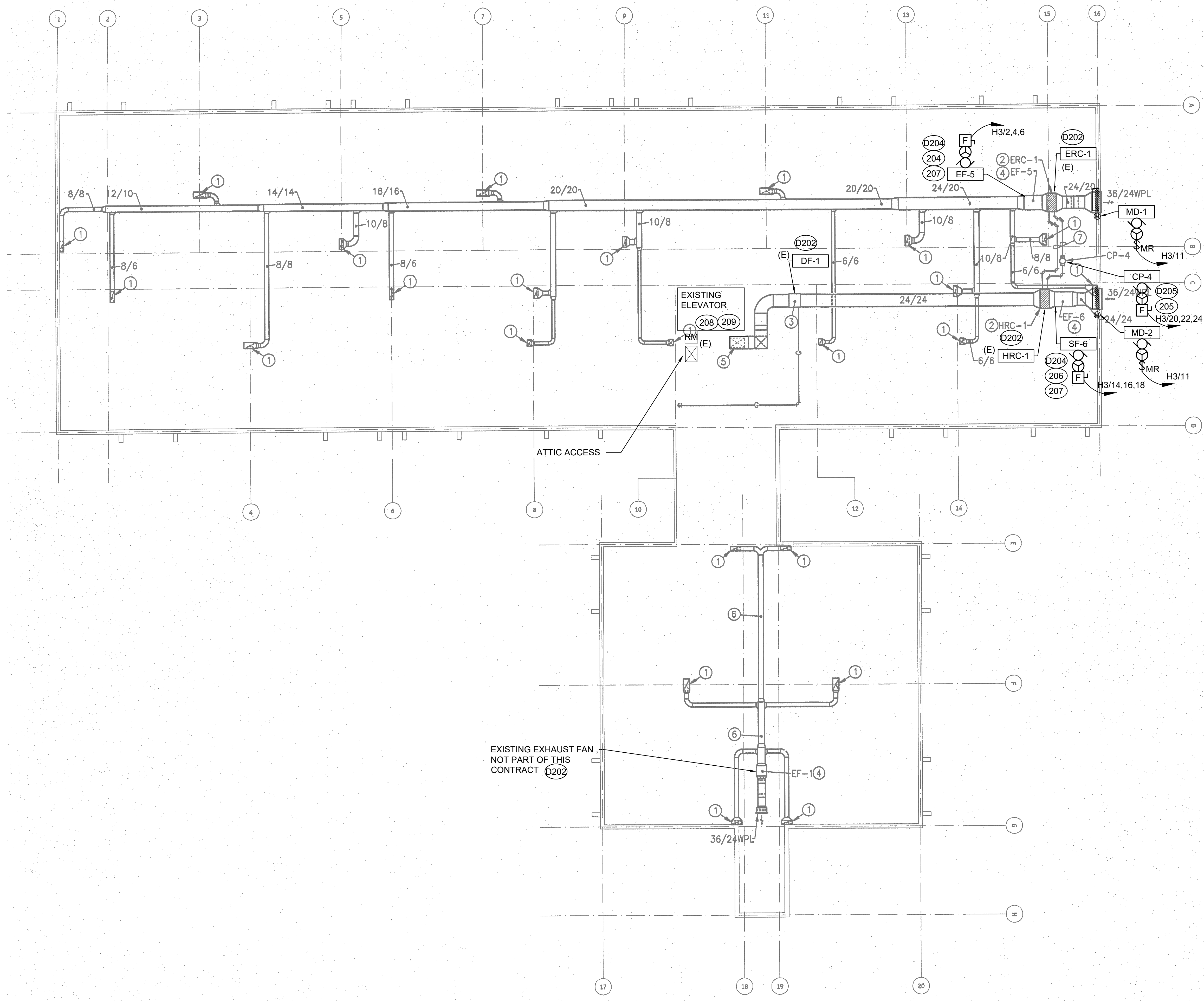
KEY PLAN

REVISION	DATE
DWG ISSUE	04/30/2026
ISSUED	DATE

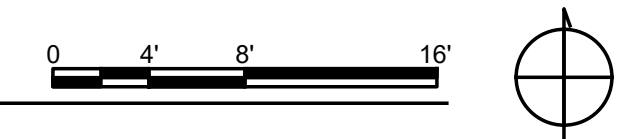
SHEET TITLE
**ELECTRICAL
 ATTIC PLAN**

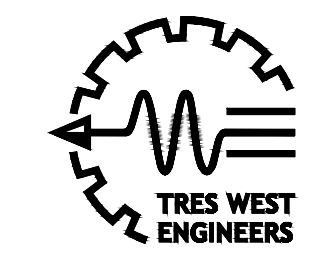
DRAWN BCY
 CHECKED RWA
 TWE JOB # 250603
 CLIENT JOB #
 SHEET SCALE

SHEET NUMBER
E204
 SHEET OF XXX



1 ELECTRICAL ATTIC PLAN
 SCALE: 1/8" = 1'-0"





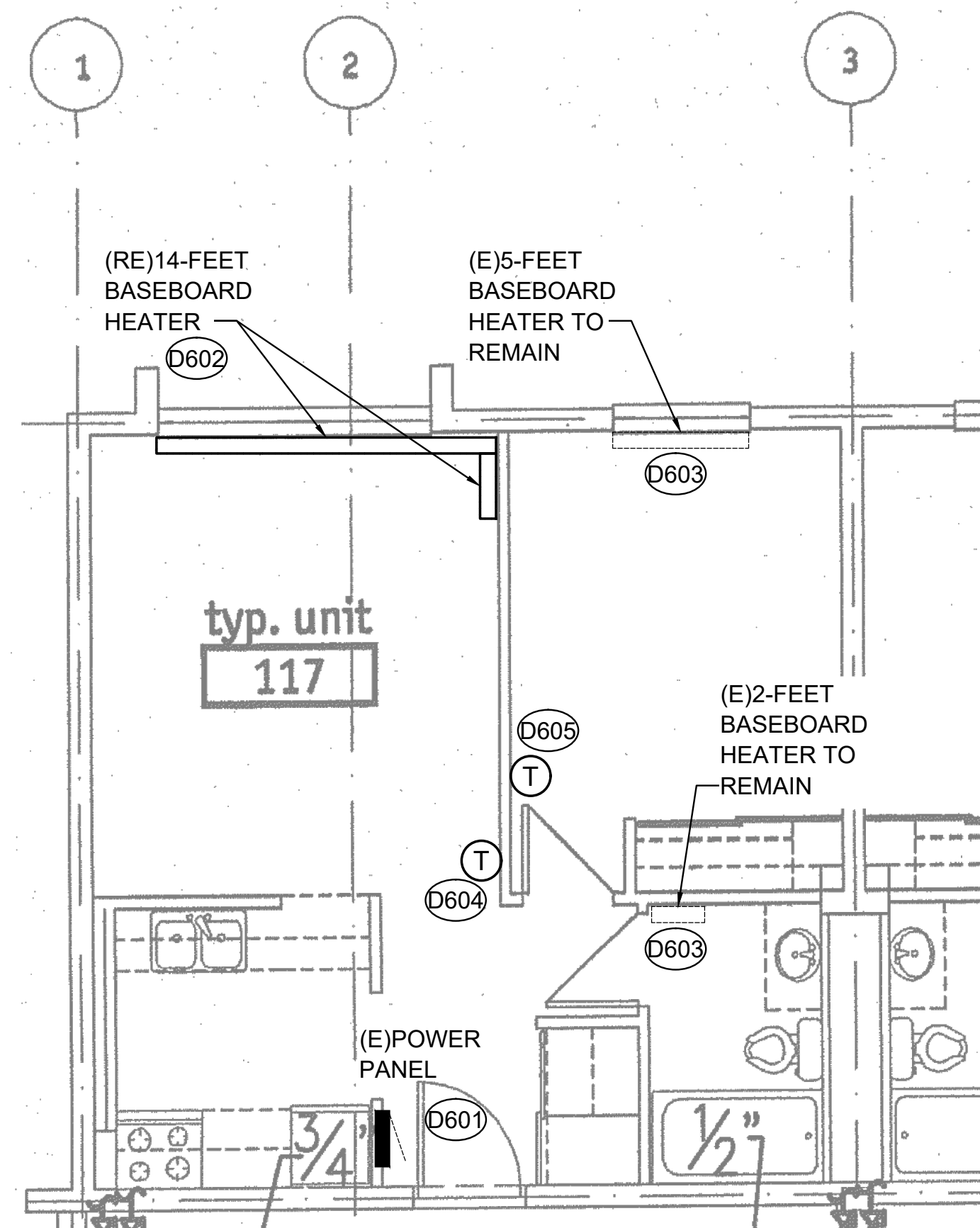
TRES WEST ENGINEERS, INC.
2702 SOUTH 42ND STREET, SUITE 301
TACOMA, WA 98409-7315
Phone: 253.472.3300
www.treswest.com

GENERAL NOTES

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2. ALL CONDUCTORS SHALL BE COPPER WIRE UNLESS NOTED OTHERWISE.
3. ALL EXTERIOR CONDUIT SHALL BE GRS UNLESS NOTED OTHERWISE.
4. PROVIDE WATERTIGHT J-BOXES, LB, AND GRS CONDUIT FOR ALL EXTERIOR RUNS.
5. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6. INSTALLATIONS SHALL COMPLY WITH ALL APPLICATIONS ACCESSIBILITY CODES.
7. ALL PENETRATIONS IN WALLS SHALL BE SEALED TO THE ORIGINAL RATING OR BETTER.

DEMO GENERAL NOTES

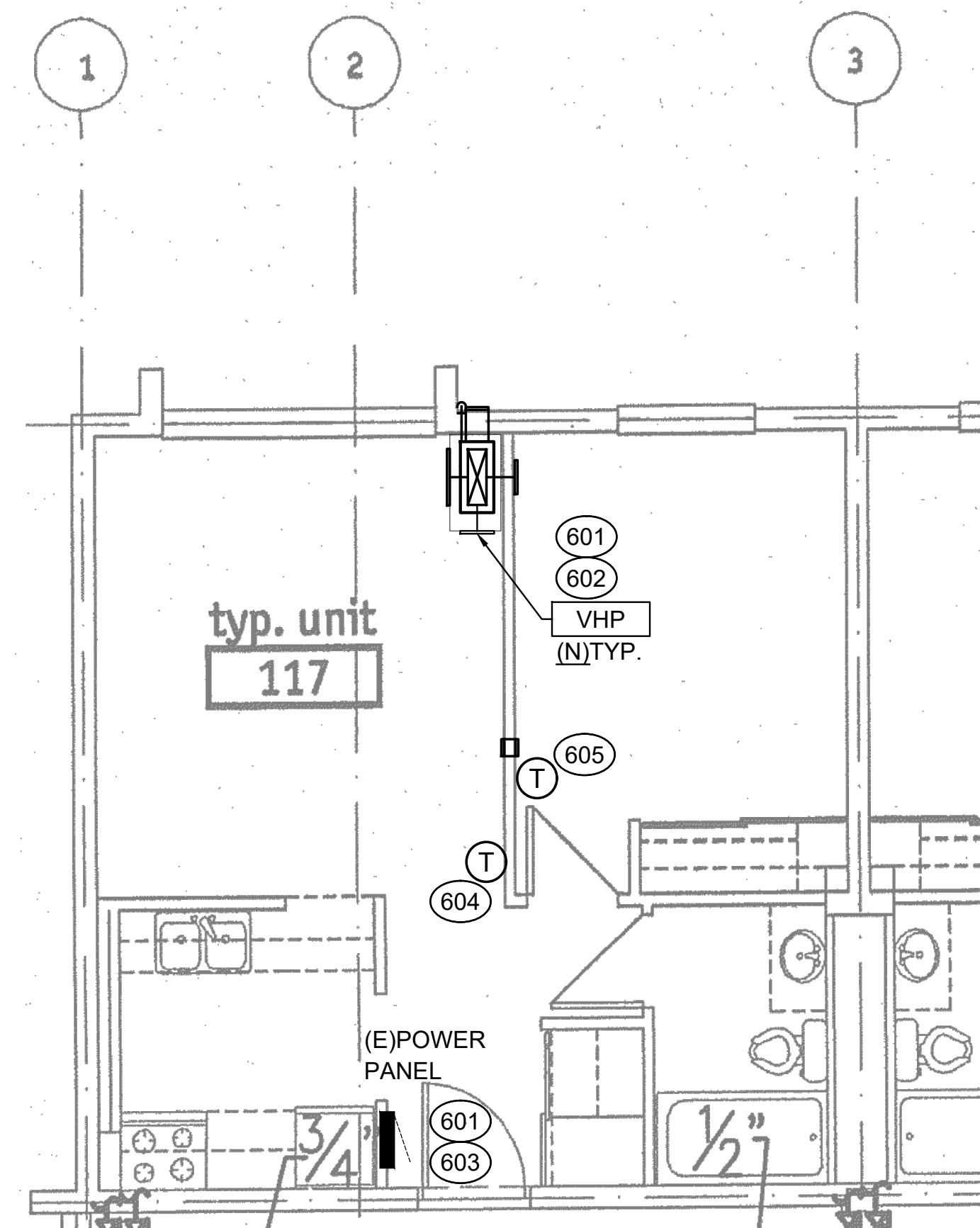
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3. EXISTING MECHANICAL EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED.
4. EXISTING FIRE ALARM DEVICES TO REMAIN UNLESS OTHERWISE NOTED.



1
E601 TYPICAL ENLARGED DEMO DWELLING UNIT FLOOR PLAN
SCALE: 1/4" = 1'-0"

ENLARGED FLOOR PLAN GENERAL NOTES

1. REMODEL DWELLING UNITS HAS EXISTING 20A/2P CIRCUIT BREAKER AND TURN OFF AND LABEL AS A SPARE. PROVIDE NEW TYPED INDEX CARD.
2. OLD DWELLING UNITS HAVE EXISTING 30A/2P BREAKER. UTILIZE BREAKER FOR NEW MECHANICAL UNIT.



2
E601 TYPICAL ENLARGED POWER DWELLING UNIT FLOOR PLAN
SCALE: 1/4" = 1'-0"

ENLARGED POWER FLOOR PLAN GENERAL NOTES

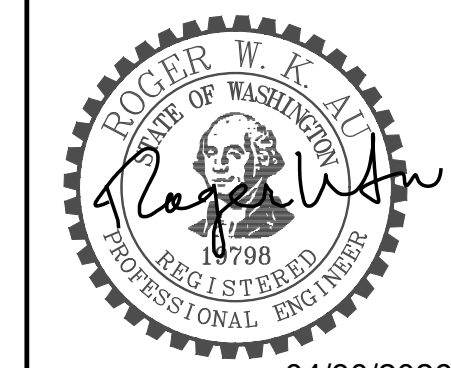
1. REMODEL DWELLING UNITS ADD A NEW 25A/2P CIRCUIT BREAKER TO CURRENT EXISTING PANELBOARD AND REPLACE EXISTING 2#12 WIRING WITH NEW 2#10 WIRING.
2. PROVIDE J-BOXES, CONDUIT, WIRING, AND CONNECTIONS AS REQUIRED FOR THE COMPLETE OPERATIONAL SYSTEM.

DEMO PLAN NOTES

- ###
- D601 EXISTING DWELLING UNIT PANELBOARD TO REMAIN. TURN BREAKER OFF TO DISCONNECT EXISTING BASEBOARD HEATER.
- D602 ELECTRICAL CONTRACTOR TO DISCONNECT POWER TO EXISTING MECHANICAL BASEBOARD HEATER UNIT. MAINTAIN EXISTING J-BOX, CONDUIT, AND WIRING. MAINTAIN EXISTING POWER CIRCUIT, IDENTIFY, AND MARK ALL CIRCUIT NUMBERS.
- D603 EXISTING MECHANICAL UNIT AND DISCONNECT SWITCH TO REMAIN.
- D604 DISCONNECT POWER TO EXISTING MECHANICAL LINE-VOLTAGE T-STAT. MECHANICAL CONTRACTOR TO REMOVE AND REPLACE WITH WIRELESS T-STAT. REMOVE RACEWAY AND WIRING BACK TO SOURCE.
- D605 DISCONNECT POWER TO EXISTING MECHANICAL LINE-VOLTAGE T-STAT. MAINTAIN EXISTING WIRING.

PLAN NOTES

- ###
- 601 NEW MECHANICAL EQUIPMENT. PROVIDE NEW 25A/2P CIRCUIT BREAKER OR UTILIZE EXISTING BASEBOARD HEATER 30A/2P CIRCUIT BREAKER IN EXISTING PANELBOARD, CONDUIT, AND REPLACE EXISTING WIRING TO #10 FOR NEW HVAC UNIT. PROVIDE CONDUIT, WIRING AND CONNECTIONS AS REQUIRED FOR THE COMPLETE OPERATIONAL SYSTEM.
- 602 UTILIZE EXISTING LIVING ROOM MECHANICAL UNIT POWER CIRCUIT FOR NEW MECHANICAL UNIT.
- 603 PROVIDE ELECTRICAL PANEL LABEL AND NEW TYPED INDEX CARD.
- 604 MECHANICAL CONTRACTOR TO PROVIDE WIRELESS T-STAT IN SAME PLACE.
- 605 REWIRE EXISTING POWER FROM EXISTING MECHANICAL LINE-VOLTAGE SOURCE FOR THE NEW ELECTRIC HEAT CONTROLLER. PROVIDE CONDUIT, WIRING AND CONNECTIONS AS REQUIRED FOR THE COMPLETE OPERATIONAL SYSTEM.



04/30/2026

PROJECT TITLE
BRITTANY PARK
KING COUNTY
HOUSING AUTHORITY
HVAC UPGRADES

PROJECT ADDRESS
18265 1st ave. south
Normandy Park,
WA. 98148

KEY PLAN

REVISION	DATE
DWG ISSUE	04/30/2026
ISSUED	DATE

SHEET TITLE
TYPICAL
ENLARGED
DWELLING UNIT
FLOOR PLANS

DRAWN BCY
CHECKED RWA
TWE JOB # 250603
CLIENT JOB #
SHEET SCALE

SHEET NUMBER

E601
SHEET OF XXX



TRES WEST ENGINEERS, INC.
2702 SOUTH 42ND STREET, SUITE 301
TACOMA, WA 98409-7315
Phone: 253.472.3300
www.treswest.com

APARTMENT UNIT LOAD CALCULATION - METER CENTER (MC-A&B) - 208VAC, 1Ø														
APARTMENT PANEL	UNIT TYPE	AREA	GENERAL LTG & REC LOAD	LIVING RM HPAC/HEAT	BEDROOM HEAT	BATHROOM HEAT	TOTAL LOAD	DW / MW	SMALL APPLIANCE	RANGE	CONNECTED LOAD KVA	DEMAND LOAD KVA	DEMAND AMPS	FEEDER SIZE
1	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
2	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
3	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
4	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
5	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
6	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
7	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
8	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
9	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
10	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
11	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
12	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
13	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
14	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
15	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
16	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
17	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
18	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
19	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
20	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
21	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
22	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
23	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
MC-A&B TOTAL	23	11040	33				100	23	69	184	409	126	608	

30-DAY DEMAND LOAD CALCULATION	
KCHA BRITTANY PARK - METER BANK A-B 23 METERS	
METER BANK A-B - (600A, 208/120V, 3PH, 4W)	199.93 AMP
30-Day PEAK DEMAND LOAD (FROM 6-17-2025 TO 7-29-025)	= 72.03 KVA
SEASONAL ADJUSTED PEAK DEMAND AT 110%	79.23 KVA
NEC 220-87 MAX DEMAND AT 125%	99.04 KVA
ADDED DEMAND LOAD (23) HVAC UNITS @ SUBTOTAL	3.32 KVA 76.36 KVA
MAX DEMAND AT 125% PLUS NEW LOAD IN KVA AT 208/120V 3PH 4W SYSTEM LOAD IN AMP	175.40 KVA 486.88 AMP
EXISTING 208/120V MAIN SWITCH 600A LOAD UNDER THE EXISTING AMPACITY	600 AMP 113.14 AMP
EXISTING SERVICE PANEL RATING	600 AMP

30-DAY DEMAND LOAD CALCULATION	
KCHA BRITTANY PARK - METER BANK C-D 20 METERS	
METER BANK C-D - (600A, 208/120V, 3PH, 4W)	199 AMP
30-Day PEAK DEMAND LOAD (FROM 6-17-2025 TO 7-29-025)	= 71.69 KVA
SEASONAL ADJUSTED PEAK DEMAND AT 110%	78.86 KVA
NEC 220-87 MAX DEMAND AT 125%	98.58 KVA
ADDED DEMAND LOAD (20) HVAC UNITS @ SUBTOTAL	4.16 KVA 83.20 KVA
MAX DEMAND AT 125% PLUS NEW LOAD IN KVA AT 208/120V 3PH 4W SYSTEM LOAD IN AMP	181.78 KVA 504.57 AMP
EXISTING 208/120V MAIN SWITCH 600A LOAD UNDER THE EXISTING AMPACITY	600 AMP 95.43 AMP
EXISTING SERVICE PANEL RATING	600 AMP

GENERAL NOTES

- ELECTRICAL ONE-LINE DIAGRAM IS EXISTING AND TO REMAIN.
- THIS IS FOR REFERENCE ONLY.
- 30-DAY PEAK DEMAND METERING AND CALCULATIONS.

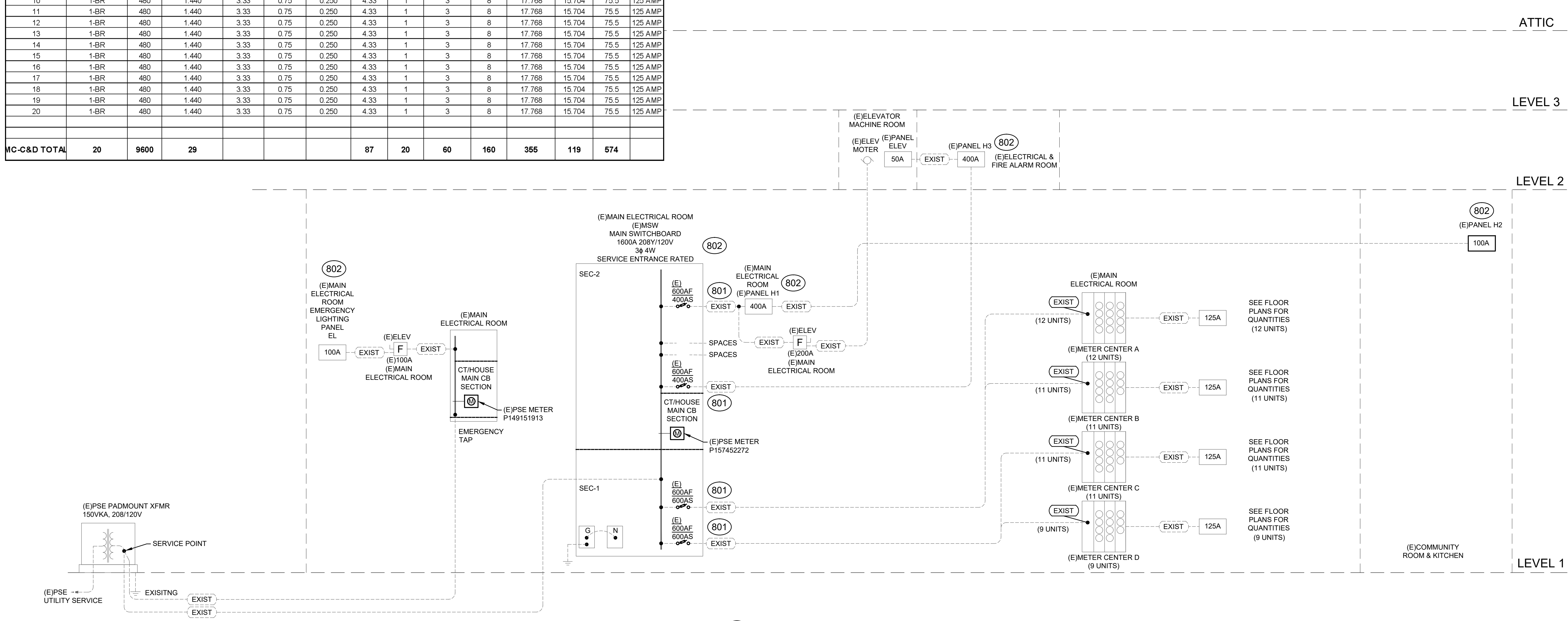
PLAN NOTES

- ###
- 30-DAY PEAK DEMAND METER LOCATION.
 - PROVIDE ELECTRICAL PANELBOARD NEW PHENOLIC LABEL PER SPECIFICATIONS AND NEW TYPED INDEX CARD.

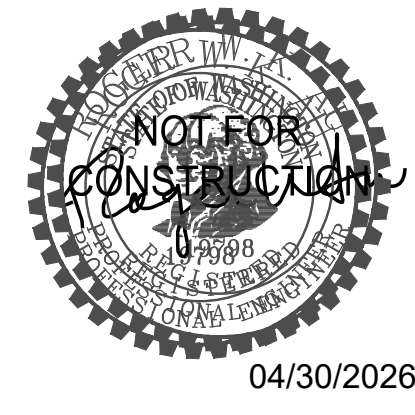
CALCULATION GENERAL NOTES

- THE APARTMENT UNIT CALCULATIONS IS A LITTLE OVER THE 600A FUSE DISCONNECT FOR EACH METER CENTER BANKS.
- 30-DAY PEAK DEMAND LOAD CALCULATION IS LOWER THAN THE 600A FUSE DISCONNECT SWITCH FOR EACH METER CENTER BANKS.

APARTMENT UNIT LOAD CALCULATION - METER CENTER (MC-C&D) - 208VAC, 1Ø														
APARTMENT PANEL	UNIT TYPE	AREA	GENERAL LTG & REC LOAD	LIVING RM HPAC/HEAT	BEDROOM HEAT	BATHROOM HEAT	TOTAL LOAD	DW / MW	SMALL APPLIANCE	RANGE	CONNECTED LOAD KVA	DEMAND LOAD KVA	DEMAND AMPS	FEEDER SIZE
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3	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
4	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
5	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
6	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
7	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
8	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
9	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
10	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
11	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
12	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
13	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
14	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
15	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
16	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
17	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
18	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
19	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
20	1-BR	480	1.440	3.33	0.75	0.250	4.33	1	3	8	17.768	15.704	75.5	125 AMP
MC-C&D TOTAL	20	9600	29				87	20	60	160	355	119	574	



1 EXISTING ONE-LINE DIAGRAM (REFERANCE ONLY)
E800 SCALE: NTS



PROJECT TITLE
BRITTANY PARK
KING COUNTY
HOUSING AUTHORITY
HVAC UPGRADES

PROJECT ADDRESS
18265 1st ave. south
Normandy Park,
WA. 98148

KEY PLAN

REVISION DATE
DWG ISSUE 04/30/2026
ISSUED DATE

SHEET TITLE
**ELECTRICAL
ONE-LINE
DIAGRAM**

DRAWN BCY
CHECKED RWA
TWE JOB # 250603
CLIENT JOB #
SHEET SCALE

SHEET NUMBER
E800
SHEET OF XXX

250603_E800 ELECTRICAL ONE-LINE DIAGRAM.dwg 3/7/2026 1:1

