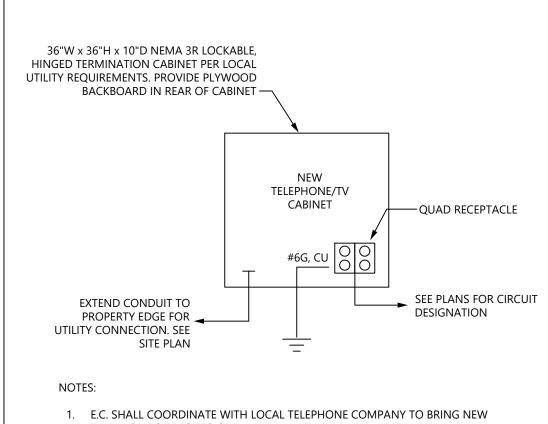


NO SCALE TYPICAL TELEVISION OUTLET DETAIL (1)



- TELEPHONE SERVICE TO SITE 2. PROVIDE 1"C WITH PULL STRING TO EACH TENANT SPACE. SEE ELECTRICAL FLOOR PLANS
- FOR MORE INFORMATION.
 THIS DETAIL IS TYPICAL OF BOTH TELECOM AND TV CABINETS. PROVIDE (1) FOR EACH SERVICE. COORDINATE WITH OWNER ON REQUIREMENTS.

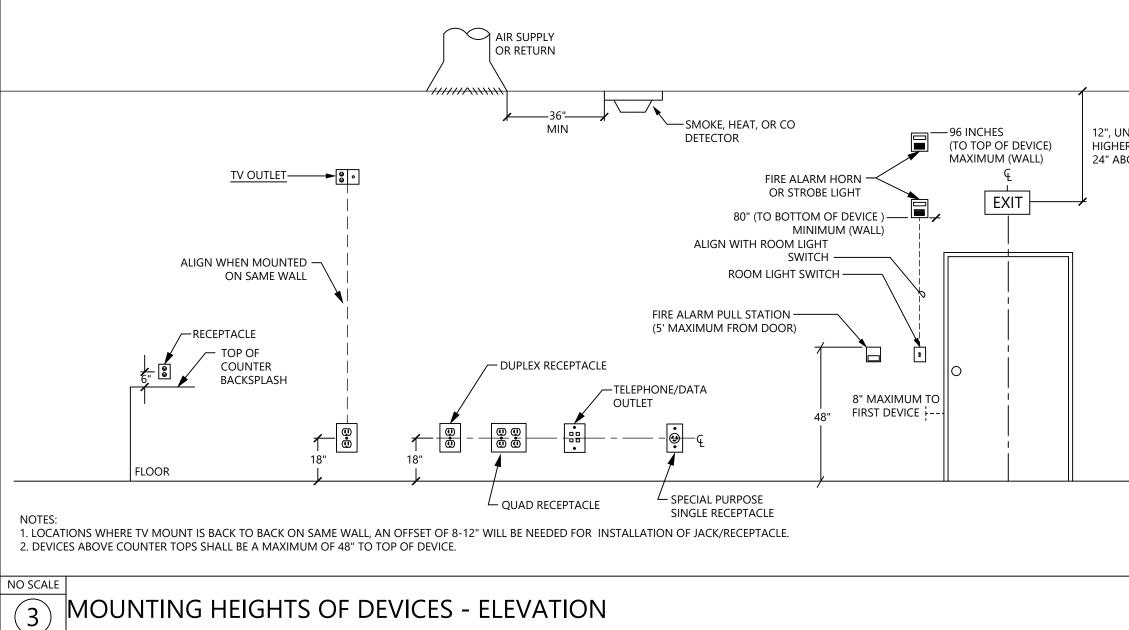
NO SCALE (2)TYPICAL TELEPHONE/TV RISER DIAGRAM

DOWNLIGHT Y C C C C C C Suttended for the construction of the construction		LIGHT FIXTURE SCHEDULE												
A 6 ^o ROUND SURACE MOUNTED DOWNLIGHT 1.000 3000k 15W INTEGRAL LED DRIVER 120V PRESCUITE LBS-RD FIELD SELECTABLE LUMEN SWITCHABLE COT B BREZZEWAY EXTENDR WALL LIGHT 546 3000k 12.5W INTEGRAL LED DRIVER 120V LIGHTWAY MENV-600-LED-F VERIFY FINISH WITH ARCH WEILOCATION LISTED C 6 ^o WN12 ⁺ H EXTERIOR PATD LIGHT 1,000 3500k 12.3W INTEGRAL LED DRIVER 120V LIGHTWAY MENV-600-LED-F VERIFY FINISH WITH ARCH WEILOCATION LISTED D 4 FT. LED STRIP 5,000 3500k 42W INTEGRAL LED DRIVER UNIV DIMMING; UNIV COOPER SNX PROVDE CHAR TOR PEND WEILOCATION LISTED E1 EXTERIOR EMERGENCY BATTERY LEGRES LIGHT AWARE - 3500k 2W INTEGRAL LED DRIVER UNIVE DIMMING; EXT LIGHT CO. ELLWET STALD 90 MINUTE ANTE WHITE E2 EXTERIOR EMERGENCY BATTERY LEGRES LIGHT AWARE - 3500k 3W INTEGRAL LED DRIVER 120V EXT LIGHT CO. ELLWET STALD 90 MINUTE ANTE WHITE E4 EXTERIOR EMERGENCY BATTERY LEGRES LIGHT AWARE - <th>ТҮРЕ</th> <th>DESCRIPTION</th> <th>LUMENS</th> <th>ССТ</th> <th>WATTS</th> <th>DRIVER</th> <th>VOLTAGE</th> <th>MANUFACTURER</th> <th>MODEL</th> <th>REMARKS</th>	ТҮРЕ	DESCRIPTION	LUMENS	ССТ	WATTS	DRIVER	VOLTAGE	MANUFACTURER	MODEL	REMARKS				
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	15	AND CHARGING. PROVIDE UNSW	ITCHED "HO	T" FROM LO	CAL CIRCUIT	UNLESS OTHERWISE INDI	CATED ON PLANS	5. PROVIDE WITH INDICATOR						
								· · · · · · · · · · · · · · · · · · ·	E FIXTURES AS REQUIRED BY LC	DCAL AHJ.				

	DEVICES AND PATHWAYS
\frown	CONDUIT AND/OR WIRING SYSTEM CONCEALED BEHIND WALL OR ABOVE CEILING.
/ ~ \	CONDUIT AND/OR WIRING SYSTEM CONCEALED IN SLAB, UNDER SLAB, OR UNDERGROUND.
	CIRCUIT HOMERUN TO PANEL CALLED OUT ON PLANS. EACH ARROWHEAD REPRESENTS (1) CIRCUIT.
-0	DUPLEX RECEPTACLE MOUNTED 18"AFF UNLESS NOTED OTHERWISE. SEE SPECIFICATIONS FOR TYPE AND EQUALS.
-	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER OR AT HEIGHT NOTED. MOUNT 48" TO CENTER OF DEVICE IF NO HEIGHT NOTED AND/OR NOT SHOWN AT A COUNTER TOP.
-	QUAD RECEPTACLE, (2) 5-20R DUPLEX RECEPTACLES.
	QUAD RECEPTACLE FOR ELECTRIC WATER COOLER. EXACT LOCATION SHALL BE COORDINATED WITH PLUMBING CONTRACTOR. PROVIDE CIRCUIT WITH GFI (CLASS-A 6mA, PERSONNEL) BREAKER.
Ĥ ₽	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. NEMA 5-20R.
	DUPLEX RECEPTACLE WITH GFI AT BREAKER. NEMA 5-20R. REFER TO PANEL SCHEDULES.
	WEATHERPROOF AND GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. COVER BASED ON INTERMATIC #WP1020 (CLEAR).
	JUNCTION BOX. 4" SQUARE BOX WITH SINGLE GANG OPENING AND PLASTER RING, UNLESS NOTED OTHERWISE.
Ð	WALL MOUNTED JUNCTION BOX. 4" SQUARE BOX WITH SINGLE GANG OPENING AND PLASTER RING, UNLESS NOTED OTHERWISE. BOX SHALL BE RECESSED IN WALL WITH NOT EXPOSED CONDUIT, UNLESS NOTED OTHERWISE.
H	SPECIAL RECEPTACLE; SEE PLANS FOR TYPE.
ΗŢ	TV POWER AND DATA CONNECTION, SEE DETAIL. MOUNT 72"AFF UNLESS NOTED OTHERWISE.
	SIX GANG FLUSH MOUNTED FLOOR BOX WITH ACCESSIBLE COVER FOR POWER AND COMMUNICATIONS. PROVIDE FIVE NEMA 5-20R DUPLEX RECEPTACLES AND ONE COMM. PLATE WITH PROVISION FOR SIX RJ45 CAT6 JACKS. EQUAL TO WIREMOLD RFB6E-OG-8CT. ARCHITECT TO SELECT FINISH. STUB FROM BOX ONE CONCEALED 1 1/4" ROUTED TO WHICHEVER IS NEAREST, BB, J-HOOKS, OR CABLE TRAY. EQUALS: HUBBELL, THOMAS & BETTS, OR SPECIFICATION EQUAL.
	LIGHTING
	LED LIGHTING FIXTURE. SEE FIXTURE SCHEDULE. SUSPEND FOUR CORNERS WITH WIRE TO STRUCTURE. DO NOT ALLOW GRID ALONE TO SUPPORT FIXTURE.
	LED STRIP FIXTURE.
0	LED LIGHTING FIXTURE.
Ю	WALL MOUNTED LED LIGHTING FIXTURE.
•	LED DOWNLIGHT WITH AN EMERGENCY BATTERY DRIVER. BASED ON 1100 LUMEN INVERTER (SEE SCHEDULE FOR FIXTURE LUMEN MAXIMUM.)
∑ ^{EX1}	EXIT LIGHT WITH ARROWS AND NUMBERS OF FACES AS INDICATED ON PLANS. 90 MIN BATTERY BACKUP. SEE LIGHTING FIXTURE SCHEDULE.
⊦●	EXTERIOR EMERGENCY FIXTURE WITH EMERGENCY DRIVER. PROVIDE 1100 LUMEN INVERTER RATED FOR 90 MINUTE OPERATION. SEE FIXTURE SCHEDULE FOR FIXTURE TYPE.
E1	EMERGENCY BUGEYE FIXTURE. PROVIDE BATTERY BACKUP RATED FOR 90 MINUTE OPERATION. SEE FIXTURE SCHEDULE FOR FIXTURE TYPE.
	EMERGENCY BUGEYE FIXTURE/EXIT SIGN COMBO FIXTURE. PROVIDE BATTERY BACKUP RATED FOR 90 MINUTE OPERATION. SEE FIXTURE SCHEDULE FOR FIXTURE TYPE.
S	SINGLE POLE SWITCH, 20 AMP, 120/277 VOLT, COOPER, OR EQUAL BY HUBBELL, LEVITON, AND PASS & SEYMOUR.
S ₃	THREE WAY SWITCH, 20 AMP, 120/277 VOLT, COOPER, OR EQUAL BY HUBBELL, LEVITON, AND PASS & SEYMOUR.
ŜŜ	INDICATES BI-LEVEL SWITCHING/DIMMING. SWITCHES DIM FIXTURES 100/50/0, COOPER, OR EQUAL BY HUBBELL, LEVITON, AND PASS & SEYMOUR.
	WALLBOX OCCUPANCY SWITCH. PIR TECHNOLOGY, AUTO-ON, 120/277V RATED. COOPER, OR

	LOW VOLTAGE (PATHWAYS ONLY)
⊲•	TELE/DATA OUTLET ABOVE COUNTER OR HEIGHT SPECIFIED. 1" EC TO ABOVE N ACCESSIBLE CEILING FOR J-HOOK SYSTEM OR TO LOCAL CABLE TRAY (WITHIN 6 APPLICABLE WITH PULL STRING. 4" SQUARE BOX WITH A SINGLE-GANG OPENII PLASTER RING.
4	TELE/DATA OUTLET. 1" EC TO ABOVE NEAREST ACCESSIBLE CEILING FOR J-HOO TO LOCAL CABLE TRAY (WITHIN 6") AS APPLICABLE WITH PULL STRING. 4" SQUA A SINGLE-GANG OPENING AND PLASTER RING.
WAP	ABOVE CEILING, STRUCTURE MOUNTED JUNCTION BOX FOR WIRELESS ACCESS I CABLING. 4" SQUARE BOX WITH A TWO-GANG OPENING. STUB 1" EC FROM BOX OR CABLETRAY ABOVE ACCESSIBLE CEILING. PROVIDE CABLING, TERMINATIONS FACEPLATE PER SPECIFICATIONS.
	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL WITH LOCAL SMOKE DETECTOR
RA	FIRE ALARM REMOTE ANNUNCIATOR. PROVIDE BOX AS REQUIRED PER MANUFA RECOMMENDATION. PROVIDE 1"C CONDUIT FOR CABLING.
F	FIRE ALARM MANUAL STATION. PROVIDE PROTECTION DEVICE.
(2)	CEILING MOUNTED SMOKE DETECTOR. FA VENDOR PROVIDED.
$\langle \bullet \rangle$	CEILING MOUNTED HEAT DETECTOR.
Co	CEILING MOUNTED CARBON MONOXIDE DETECTOR.
$\left< \mathbf{S} \right>$	DUCT MOUNTED SMOKE DETECTOR. FURNISHED AND CONNECTED BY ELECTRIC CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR. CUTTING OF DUCT, I DETECTOR. AND DETERMINATION OF SAMPLING TUBE LENGTH SHALL BE THE M CONTRACTOR. PROVIDE REMOTE INDICATING LIGHT WITH EACH DETECTOR.
SB	DETECTOR WITH SOUNDER BASE (SB).
<pre>MC</pre>	MULTI-CRITERIA DETECTOR (SMOKE/CO/HEAT).
<u>○</u> , 15CD</th <td>ADA COMPLIANT WALL MOUNT FIRE ALARM HORN WITH STROBE LIGHT, 15CD U OTHERWISE NOTED. WHITE FINISH WITH RED LETTERING.</td>	ADA COMPLIANT WALL MOUNT FIRE ALARM HORN WITH STROBE LIGHT, 15CD U OTHERWISE NOTED. WHITE FINISH WITH RED LETTERING.
0 15CD	ADA COMPLIANT WALL MOUNT FIRE ALARM STROBE LIGHT, 15CD UNLESS OTHE WHITE FINISH WITH RED LETTERING.
	ADA COMPLIANT CEILING MOUNTED FIRE ALARM HORN STROBE LIGHT, 15cd, U OTHERWISE NOTED. WHITE FINISH WITH RED LETTERING.
15CD	ADA COMPLIANT CEILING MOUNTED FIRE ALARM STROBE LIGHT, 15cd, UNLESS NOTED. WHITE FINISH WITH RED LETTERING.
	ELECTRICAL EQUIPMENT
S	FUSED HEAVY DUTY DISCONNECT SWITCH. NUMERALS INDICATE SWITCH RATING/FUSE SIZE. NEMA 1 ENCLOSURE, UNLESS OTHERWISE NOTED.
GB	

Þ	FUSED HEAVY DUTY DISCONNECT SWITCH. NUMERALS INDICATE SWITCH RATING/FUSE SIZE. NEMA 1 ENCLOSURE, UNLESS OTHERWISE NOTED.
(B)	PLYWOOD TELEPHONE BACKBOARD WITH TELECOMMUNICATIONS GROUND TELECOMMUNICATIONS RISER DIAGRAM FOR DETAILS.
	PANELBOARD. REFER TO POWER RISER DIAGRAM AND PANEL SCHEDULES FO OF PANEL AT 6'-6" AFF.
S⊾	MOTOR RATED SWITCH WITH OVERLOAD PROTECTION.



At Market Der Market			
<pre>CVICE DIFFECTURES CONSISTENCE CVICE C</pre>	VE NEAREST IIN 6") AS PENING AND		
Control and a set of the	HOOK SYSTEM OR SQUARE BOX WITH	2018 NCECC CHAPTER 4 NC SPECIFIC COMCHECK PROVIDED	
Image: Section of the sectio	BOX TO J-HOOKS	 C406.1.1 EFFICIENT MECH EQUIPMENT C406.1.2 REDUCED LTG DENSITY C406.1.3 ENHANCED DIGITAL LTG CNTLS C406.1.6 HI-EFF SERVICE WTR HTG NOT APPLICABLE BASED ON PROJECT SCOPE 	engineering MECHANICAL, ELECTRICAL & PLUMBING 15822 Kelly Park Cir Huntersville, NC (704) 439-7038
Image: Section of the section of th	IUFACTURER	 BUILDING IS LESS THAN 10,000 SQUARE FEET AND IS EXEMPT FROM THE SYSTEM COMMISSIONING REQUIREMENTS OF SECTION C408. BUILDING IS GREATER THAN 10,000 SQUARE FEET AND REQUIRES SYSTEM COMMISSIONING 	
ALL Implementation of the state of th	CT, INSTALLATION OF	 LIGHTING SYSTEMS ARE PROVIDED WITH CONTROLS AS REQUIRED PER SECTION C405.2, EXCEPT WHERE EXEMPT. NOT APPLICABLE C405.3 - EXIT SIGNS (MANDATORY REQUIREMENTS): INTERNALLY ILLUMINATED EXIT SIGNS DO NOT EXCEED 5 WATTS PER SIDE. NOT APPLICABLE C405.4 - INTERIOR LIGHTING POWER REQUIREMENTS (PRESCRIPTIVE) (NON-EXEMPT): NOT APPLICABLE PER 2018 NCECC C503.1, EXCEPTION 2.G. C405.4.1 - TOTAL CONNECTED INTERIOR LIGHTING POWER: 12,410 WATTS SPECIFIED 	
2011000010001000	SCD UNLESS	(APPLICABLE IF C406.1.2 IS SELECTED) C405.4.2 - TOTAL <u>ALLOWABLE</u> INTERIOR LIGHTING POWER:	
d. Unuss CIRE 31 - ENTERORE BUILING DURING DURING DURING NON-EXCENTE: Status and the international status andinternation international status and the internation	OTHERWISE NOTED.	BUILDING AREA METHOD SPACE-BY-SPACE METHOD	
ESC OFF PRIVATE TOTAL CONNECTED DOTATION LIGHT IN SPRAYER: SOUTH IS ALLOWED CILING STATUS ALLOWED CLANK CILING CLANK CLANK CILING STATUS ALLOWED CILING STATUS ALLOWED	cd, UNLESS	C405.5.1 - EXTERIOR BUILDING LIGHTING POWER (NON-EXEMPT):	
SPARATE LILITION LA INTERNET INS SPARA	ESS OTHERWISE	TOTAL <u>CONNECTED</u> EXTERIOR LIGHTING POWER: <u>970</u> WATTS SPECIFIED TOTAL <u>ALLOWABLE</u> EXTERIOR LIGHTING POWER: <u>2,110</u> WATTS ALLOWED	
DRIG BAR, HETR TO NOT APPLICABIL DRIG BAR, HETR TO Import Control Contr		SEPARATE ELECTRICAL METERING HAS BEEN PROVIDED FOR EACH DWELLING UNIT IN GROUP	The orchards at Naples Road, LLC
CELLING C	DING BAR. REFER TO		Hendersonville, NC 28792
Image: State of the state	OR DETAILS. TOP	 REQUIREMENTS PER C405.7, EXCEPT WHERE EXEMPT. NOT APPLICABLE C405.8 - ELECTRICAL MOTORS (MANDATORY REQUIREMENTS): ELECTRICAL MOTORS HAVE BEEN SPECIFIED TO MEET MINIMUM EFFICIENCY REQUIREMENTS PER C405.8, EXCEPT WHERE EXEMPT. 	Orchards
	JNLESS CEILING IS ER THAN 12'-0", THEN BOVE DOOR.	+42" DIMENSION INDICATES HEIGHT ABOVE FINISHED FLOOR AT WHICH CENTRE OF DEVICE IS TO MOUNTED. SEE PLANS. 3R NEMA 3R AFF ABOVE FINISHED FLOOR AHJ AUTHORITY HAVING JURISDICTION AHU AIR HANDLER UNIT C.B. CIRCUIT BREAKER EC ELMPTY CONDUIT WITH PULL CORD E.C. ELECTRIC ALCONTRACTOR EWH ELECTRIC WATER COOLER EWH ELECTRIC WATER COOLER EWH ELECTRIC WATER COOLER FPN FUSE PEN NAMEPLATE LC LIGHTING CONTACTOR M.C. MECHANICAL CONTRACTOR W.C. HECHANICAL CONTRACTOR U.G. ULDERGROUND WP WEATHERPROOF S.E. SERVICE ENTRANCE EM EMERGENCY FIXTURE WITH BATTERY OR GEN, BACK-UP ER EXISTING ITEM TO BE REPLACED. RM EXISTING ITEM TO BE REPLACED. RM EXISTING ITEM TO BE REPLACED. RV EXISTING ITEM T	PROJECT: PROJEC
			E-01

GENERAL:

- A. THE WORK COVERED BY THESE SPECIFICATIONS CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, MATERIAL, S AND SUPPLIES AS NECESSARY FOR THE OPERATING ELECTRICAL SYSTEMS AS SHOWN ON THE PLANS.
- B. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2020 NATIONA BUILDING CODE, AND ANY OTHER LOCAL REQUIREMENTS THAT CONTRACTOR SHALL OBTAIN AND PAY FOR ALL ELECTRICAL PER ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE
- LABORATORIES, INC. OR BY A STATE APPROVED THIRD PARTY TE INTENDED WHERE A STANDARD FOR SUCH MATERIALS AND USE TYPE AND RATING SHALL BE IDENTICAL AND OF THE SAME MAN CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CATALOG (PDF) FOR ALL ELECTRICAL ITEMS IN THE SCOPE OF WORK, INCLU
- RACEWAYS, BOXES, FITTINGS, CONDUCTORS, LUMINAIRES, LAMI SAFETY SWITCHES, DISCONNECTS, TRANSFORMERS, PANELBOAR TELECOMMUNICATIONS, ETC. FOR APPROVAL AS APPLICABLE FO SET OF APPROVED SUBMITTALS SHALL BE MAINTAINED AT THE J ALL COST ASSOCIATED WITH SUBSTITUTED EQUIPMENT TO COM
- INCLUDING PROVIDING MAINTENANCE ACCESS, CLEARANCE, CC OF OTHER SYSTEM COMPONENTS, BUILDING ALTERATIONS, MET IN THE ORIGINAL BASE BID. NO ADDITIONAL COSTS ASSOCIATE WILL BE APPROVED AFTER BIDS HAVE BEEN ACCEPTED AND ALL RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. CREDITS SH WHERE SUCH EQUIPMENT AND METHODS RESULT IN LESS EXPE
- ONE COMPLETE SET OF THE LATEST CONSTRUCTION PLANS OF A AT THE JOB SITE. IN ADDITION, ALL ADDENDUMS, BULLETINS, AN INCORPORATED INTO THE ON-SITE CONSTRUCTION PLANS AS T
- COMPLETELY ADEQUATE HOUSING SHALL BE PROVIDED FOR ALL ONLY CONDUIT MAY BE STORED OUTSIDE, BUT NOT IN CONTAC THE CONDUIT AND NEUTRAL SYSTEM SHALL BE GROUNDED AT GROUNDING ELECTRODE SYSTEM SHALL BE INSTALLED PER NEC
- PROVIDE AN INTERSYSTEM BONDING TERMINATION DEVICE AT PFR NFC 250.94 WIRING SHALL BE TESTED FOR CONTINUITY AND GROUNDS BEFC WIRING SHALL BE REPLACED AT NO ADDITIONAL EXPENSE TO TH
- PROVIDE ALL CUTTING AND PATCHING FOR INSTALLATION OF W M. THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL EQUIPMENT
- CONNECTIONS (UNLESS OTHERWISE NOTED), EXCEPT FOR CONTR NOT PROVIDED BY THE ELECTRICAL CONTRACTOR. CONTROL WI SHALL BE PROVIDED BY THE RESPECTIVE DISCIPLINE.
- N. ALL ELECTRICAL JUNCTION BOXES, SWITCHGEAR, CABLING, VOIC CABINETS, EMERGENCY RECEPTACLES, ETC. SHALL BE LABELED AC CIRCUIT NUMBER
- O. UPON COMPLETION OF WORK, CONTRACTOR SHALL PRESENT EN APPROVAL FROM LOCAL INSPECTOR AND/OR AUTHORITY HAVIN WILL BE APPROVED FOR FINAL PAYMENT.
- CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FO EFFECTIVE THE DATE THE PROJECT IS ACCEPTED BY THE OWNER. WORKMANSHIP SHALL BE REPLACED WITHOUT ADDED COST TO O. IT SHALL NOT BE THE INTENT OF ISSUED PLANS AND/OR SPECIFI
- DETAIL OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR IS E INSTALL ALL NECESSARY ITEMS FOR A COMPLETE AND OPERATIN R. THE WORD "PROVIDE" MEANS THAT THIS CONTRACTOR SHALL F
- CONNECT, AND COMPLETELY INSTALL SYSTEMS IN PROPER OPER PRODUCT OPTIONS, ACCESSORIES AND INCIDENTAL MATERIALS AS PART OF THIS WORK TO COMPLETE THE INSTALLATION. THE WORD "CONNECT" MEANS THAT THIS CONTRACTOR SHALL
- ALL DISCONNECTING MEANS, OVERCURRENT PROTECTION AND EQUIPMENT AND SYSTEMS IN PROPER OPERATING CONDITION A REQUIREMENTS T. CONTRACTOR SHALL COORDINATE THE ROUGH-IN OF ALL OUTLE ARCHITECTURAL FLOOR PLANS, ELEVATIONS, AND MILLWORK SH
- ROUGH-IN U. ELECTRICAL CONTRACTOR SHALL NOT SCALE PLANS. CONTRACT ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS
- OTHERWISE NOTED. CONTRACTOR SHALL TEST ALL "LIFE SAFETY" EQUIPMENT AND SY AND OPERATION. UPON SUCCESSFUL COMPLETION OF TESTS, O THE ENGINEER OF RECORD IN THE FORM OF A LETTER STATING RESULTS, AND THE DATE TESTS WERE SUCCESSFULLY COMPLETE SYSTEMS CONSIST OF THOSE AS SPECIFIED IN THE STATE BUILDI
- ELECTRICAL CODE (NEC), NFPA 101, AND ANY OTHER LOCAL REC W. IF DURING THE COURSE OF WORK, THE CONTRACTOR DISCOVER PERFORMANCE OF THE INSTALLATION RELATIVE TO THE PLANS OR OTHER CODES OR REQUIREMENTS, THE CONTRACTOR SHALL PROBLEM TO THE ATTENTION OF THE ARCHITECT AND/OR ENGIN THE EXECUTION OF THE WORK.
- WHERE THERE ARE CONFLICTS BETWEEN THE PLANS AND SPECIF SHALL BRING THE ISSUE TO THE ATTENTION OF THE ENGINEER F EXECUTION OF THE WORK OR ORDERING ANY MATERIALS. NO VARRANTED WITHOUT A CHANGE TO THE PROJECT SCOPE
- Y. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PROVIDING TEMPORARY POWER AND LIGHTING FOR ALL TRADES. AT NO TIME SHALL EXISTING BUILDING POWER SYSTEMS BE UTILIZED WITHOUT WRITTEN PERMISSION FROM THE OWNER.
- Z. COORDINATE LOCATION AND REQUIREMENTS FOR ELECTRICAL SERVICE WITH THE POWER COMPANY. WHERE MORE THAN ONE SERVICE IS SUPPLIED TO A BUILDING, PROVIDE IDENTIFICATION AT EACH SERVICE PER NEC 230-2(E). AA. COORDINATE LOCATION AND REQUIREMENTS FOR TELEPHONE SERVICE WITH THE TELEPHONE COMPANY
- AB. THE CONTRACTOR SHALL PROVIDE A MINIMUM TWO WEEK NOTICE FOR ANY PLANNED UTILITY OUTAGES. WRITTEN AUTHORIZATION FROM THE OWNER SHALL BE PROVIDED PRIOR TO ANY OUTAGE. ALL PLANNED UTILITY OUTAGES SHALL BE COORDINATED WITH THE OWNER TO OCCUR DURING NON-OPERATING TIMES, INCLUDING NIGHTS, WEEKENDS AND HOLIDAYS. ALL PLANNED UTILITY OUTAGES SHALL INCLUDE PROVISIONS FOR PROPER BACK-UP OF ALL LIFE-SAFETY SYSTEMS AND INCLUDE AN APPROVED FIRE-WATCH PROGRAM AS REQUIRED BY THE LOCAL FIRE
- 2. <u>RACEWAY:</u>

MARSHALL

- A. CONDUIT SHALL BE MANUFACTURED BY ALLIED, WHEATLAND, REPUBLIC CONDUIT, WESTERN
- TUBE, OR APPROVED EQUIVALENT. B. FOR INTERIOR WORK, CONDUIT SHALL BE ZINC COATED EMT EXCEPT WHERE NOT PERMITTED BY CODE. USE SCHEDULE 40 PVC BELOW CONCRETE SLAB, IN DUCTBANKS, AND FOR EXTERIOR WORK WHERE NOT SUBJECT TO DAMAGE. USE IMC WHERE SUBJECT TO PHYSICAL DAMAGE. EMT FITTINGS SHALL BE COMPRESSION GLAND TYPE, OF MALLEABLE STEEL. CONNECTORS SHALL HAVE INSULATED THROATS. CAST, SET SCREW, OR INDENTER TYPE FITTINGS ARE NOT
- ACCEPTABLE. ALL FITTINGS FOR EMT SHALL BE MADE OF STEEL ALL RACEWAY SHALL BE RUN CONCEALED, UNLESS OTHERWISE NOTED. FISH ALL NEW OUTLETS IN EXISTING WALLS, WHERE POSSIBLE. ALL RUNS SHALL BE NEAT AND SOUARE E. LOW VOLTAGE CABLING NOT SPECIFIED TO BE INSTALLED IN CONDUIT, SHALL BE INSTALLED IN A
- CABLE TRAY SYSTEM OR J-HOOK SYSTEM CONSISTING OF MINIMUM 2" DIAMETER HOOKS LOCATED ON 3'-0" CENTERS IN ALL ACCESSIBLE CEILINGS. WHERE THERE ARE INACCESSIBLE CEILINGS, PROVIDE CONDUIT FOR ENTIRE LENGTH OF INACCESSIBILITY. RACEWAYS USED FOR LOW VOLTAGE SYSTEMS SUCH AS TELECOMMUNICATIONS, FIRE ALARM,
- SECURITY, CCTV, CONTROLS, AND SIMILAR CONDUITS ABOVE THE CEILING AND BACKBOARD(S) SHALL BE PROVIDED WITH INSULATED THROAT BUSHINGS AT EACH CONDUIT TERMINATION. THESE BUSHINGS SHALL BE BE INSTALLED PRIOR TO PULLING LOW-VOLTAGE CABLES. G. RACEWAY PENETRATIONS THROUGH FLOOR SLABS AND FIRE-RATED WALLS SHALL BE FILLED WITH
- IMPERVIOUS, NON-SHRINK GROUT SUFFICIENTLY TIGHT TO PREVENT THE TRANSFER OF SMOKE, WATER, AND DUST. ROOF PENETRATIONS SHALL BE WITHIN THE EQUIPMENT ROOF CURB. SUPPORT ALL CONDUIT WITH STRAPS AND CLAMPS
- ALL CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES, WHETHER EXPOSED OR NOT AND SUPPORTED FROM STRUCTURE AND PROPERLY SECURED. WHERE CONDUITS PASS THROUGH A BUILDING EXPANSION JOINT, PROVIDE GALVANIZED
- EXPANSION FITTINGS WITH BONDING JUMPERS. K. MINIMUM CONDUIT SIZE SHALL BE 3/4" FOR INTERIOR WORK. 1" FOR EXTERIOR WORK.
- PROVIDE MINIMUM 210# TEST NYLON PULL CORD AND NYLON BUSHINGS IN ALL EMPTY RACEWAYS M. LIQUID-TIGHT METAL CONDUIT SHALL ONLY BE USED FOR FINAL CONNECTIONS TO EQUIPMENT
- AND ALL OTHER ROTATING AND VIBRATING EQUIPMENT, MAXIMUM LENGTH OF 3'-0". N. FLEXIBLE METAL CONDUIT, MINIMUM SIZE 3/8", SHALL ONLY BE USED FOR FINAL CONNECTION TO LIGHTING FIXTURES, MAXIMUM LENGTH OF 6'-0".
- O. PROVIDE PULL BOXES, SUCH THAT NO SINGLE CONDUIT RUN HAS BENDS IN EXCESS OF 360°. PULL BOXES SHALL BE SUITABLE AND APPROVED FOR THE INTENDED USE. WHERE CONDUITS PASS UNDER PAVED AREAS, THEY SHALL BE RGS.
- P. ALL CONDUIT BENDS/ELBOWS EMERGING FROM UNDERGROUND SHALL BE IMC AND SHALL EXTEND A MINIMUM OF 18" BELOW GRADE. Q. ALL UNDERGROUND RACEWAYS SHALL BE THOROUGHLY COATED WITH TWO COATS OF
- ASPHALTUM BITUMASTIC R. ALL CONDUITS INSTALLED UNDERGROUND OR IN CONCRETE SHALL HAVE JOINTS MADE
- WATERTIGHT BY USE OF POLYETRA-FLUOROETHYLENE TAPE. THE USE OF AC OR NM CABLE IS NOT PERMITTED.
- MC CABLE MAY ONLY BE UTILIZED WHERE PERMITTED BY CODE AND IT SHALL ONLY BE ALLOWED WHERE CONCEALED BEHIND HARD WALLS AND HARD CEILINGS. MC CABLE SHALL NOT BE EXPOSED.
- 3. OUTLET BOXES:
 - A. JUNCTION AND PULL BOXES SHALL BE CODE GAUGE GALVANIZED STEEL. ACCEPTED MANUFACTURERS SHALL BE STEEL CITY (THOMAS & BETTS), RACO, CROUSE-HINDS, APPLETON (FMFRSON) OR APPROVED FOUIVALENT
 - OUTLET BOXES SHALL NOT BE MOUNTED BACK TO BACK IN COMMON WALLS. ATTACH EMT WITH CONNECTORS HAVING INSULATED THROAT. ATTACH BOXES TO STUD WORK USING CADDY BAR STRAPS THAT CONNECT TO TWO ADJACENT
 - STUDS TO PREVENT TWISTING OF BOX IN WALL.

			ATES, BLANK IF NOT USED.			G.
FURNISHING ALL LABOR, IE COMPLETE AND SATISFACTORY	4		L EXTERIOR BOXES SHALL BE WATER-TIGHT.			
E COMPLETE AND SATISFACTORY	4.	201	JCTORS:			H.
AL ELECTRICAL CODE, NFPA, STATE T MAY APPLY.		Α.	DNDUCTORS SHALL BE MANUFACTURED BY SOU NITED COPPER (SLK), CERRO (SLP), OR APPROVED			
ERMITS AND INSPECTION FEES. E LISTED BY THE UNDERWRITER'S		B.	ANUFACTURER. L CONDUCTORS SHALL BE COPPER, RATED 75° C	WET/DRY EXCEPT WHERE OTHERWISE NOTED		I.
ESTING AGENCY FOR THE USE SE EXISTS. ALL ITEMS OF THE SAME		C.	R REQUIRED BY U.L. OR OTHER CODES. L CONDUCTORS SHALL BE SINGLE INSULATED C		0	
NUFACTURER. 5 DATA IN ELECTRONIC FORMAT		D.	ND SMALLER SHALL BE SOLID, SIZES #8 AWG AN ANCH CIRCUITS SHALL NOT BE SMALLER THAN ONDUCTORS SHALL BE COLOR CODED BLACK/RE	#12 AWG. CONTROL WIRING MAY BE #14 AWG.	9.	LIC
LUDING, BUT NOT LIMITED TO, IPS, BALLASTS, WIRING DEVICES, \RDS, SWITCHBOARDS, FIRE ALARM,		E.	ONDUCTORS SHALL BE COLOR CODED BLACK/RE OWN/ORANGE/YELLOW FOR 277/480 VOLT SYS EUTRAL SHALL BE WHITE FOR 120/208 VOLT SYST	TEMS FOR A, B, AND C PHASES, RESPECTIVELY.		A.
OR THE PROJECT. ONE COMPLETE			STEMS. GROUND CONDUCTOR SHALL BE GREEN HALL HAVE COLOR-CODED INSULATION. THE US			В. С.
MPLY WITH THE BASIS OF DESIGN, CONDUIT, WIRING, REPLACEMENT		F.	IALL NOT BE ALLOWED. SULATION SHALL BE DUAL RATED TYPE THHN/TH			
ETHODS, ETC., SHALL BE INCLUDED ED WITH SUBSTITUTED EQUIPMENT L COSTS WILL BE THE		G	(TURE TAPS SHALL BE #12 THHN/THWN-2 IN FLE DNDUCTOR. .L CONDUCTORS SHALL BE IN CONDUIT.	X WITH GREEN #12 AWG GROUNDING		D. E.
HALL BE GIVEN TO THE OWNER		О. Н.	IRING TO LIGHTING FIXTURES SHALL BE AS REQU	JIRED BY UL LABEL.		
ENSE TO THE CONTRACTOR.		I.	ULTI-WIRE BRANCH CIRCUITS SHALL NOT BE ALL AWINGS. WHERE EXPLICITLY INDICATED ON TH	E DRAWINGS:		F.
AND/OR SKETCHES SHALL BE THE JOB PROGRESSES. LL MATERIALS STORED ON JOB SITE.			 ALL 20A MULTI-WIRE RECEPTACLE CIRCUITS CONDUCTOR. 	SHALL UTILIZE A #10 AWG NEUTRAL		
CT WITH THE GROUND.			2) ONLY WHERE PERMITTED UNDER "RACEWAN			
THE MAIN SERVICE EQUIPMENT. C 250.				TLY INDICATED ON THE DRAWINGS, THEY SHALL		G.
			BE INSTALLED PER NEC 210.4. MEANS SHALI DISCONNECT ALL UNGROUNDED CONDUCT	ORS AT THE POINT WHERE THE BRANCH		H.
FORE BEING ENERGIZED. FAULTY THE OWNER.		J.	CIRCUIT ORIGINATES IN ADDITION TO OTHE NNTS IN #10 AWG AND SMALLER SHALL BE MAD	-		
WORK AND REPAIR ANY DAMAGE			SULATING CAPS (NO TAPE) OR WIRENUTS (MAXI DNNECTOR OR WIRENUT). LARGER WIRE SHALL			I.
NT REQUIRING ELECTRICAL ITROL WIRING FOR EOUIPMENT		K.	L WIRING LUGS THROUGHOUT THE PROJECT, IN			
WIRING FOR SUCH EQUIPMENT			NELBOARD/SWITCHBOARD LUGS, SAFETY SWITC ANSFORMERS LUGS, WIRING DEVICE TERMINAL: RATED FOR USE WITH 75 DEGREE INSULATED CO	S, AND ALL EQUIPMENT LUGS/TERMINALS SHALL		J. K.
ICE/DATA OUTLETS, LOW VOLTAGE ACCORDING TO PANEL/RACK AND		L.	ND SHALL BE SIZED AND SELECTED TO MATCH TI RCUIT JOINTS SHALL NOT BE MADE ON DEVICE 1	HE CONDUCTOR SIZE AND MATERIAL.		i.
ENGINEER WITH CERTIFICATE OF		N.	IRE WITHIN PANELBOARDS SHALL BE NEATLY TR L SYSTEM FURNITURE CONNECTIONS SHALL CO	MPLY WITH NEC 605.		L. M.
ING JURISDICTION BEFORE WORK		О.		NCLUDING FIXTURE TAPS, SHALL INCLUDE GREEN		N.
FOR A PERIOD OF ONE YEAR R. ANY IMPERFECT MATERIALS OR			ROUNDING CONDUCTOR, #12 AWG MINIMUM. ROUNDING CONDUCTOR IN EACH CONDUIT ANI	D FOR EACH CIRCUIT, SIZED PER NEC 250-122.		О. Р.
O THE PROJECT. FICATIONS TO SHOW EVERY MINOR		Ρ.	L CONDUCTORS INSTALLED IN VERTICAL RACEW QUIRED PER NEC 300-19.	VAYS SHALL BE SUPPORTED AT INTERVALS AS		
EXPECTED TO FURNISH AND ING SYSTEM.		Q.	IE ELECTRICAL CONTRACTOR SHALL FOLLOW AN IE PANEL SCHEDULE INDICATES, FOR SIZING ALL	ID APPLY THE TABLE BELOW, REGARDLESS WHAT		
FURNISH, FABRICATE, ERECT,			OPPER CONDUCTORS) TO ALLOW A MAXIMUM	OF 3% VOLTAGE DROP FROM THE CIRCUIT	10.	LIC
ERATING CONDITION. ALL LABOR, S REQUIRED SHALL BE INCLUDED			EAKER TO THE FIRST DEVICE ON THE BRANCH C DLTAGE DROP ACROSS THE ENTIRE BRANCH CIRC			A.
L PROVIDE (SEE DEFINITION ABOVE) D WIRING REQUIRED TO PLACE THE			VOLTAGECONDUCTOR LENGTH *1200' - 50'	BRANCH CIRCUIT #12		
AND TO COMPLY WITH CODE			120 51' - 90'	#10		
TLET LOCATIONS WITH SHOP DRAWINGS PRIOR TO			12091' - 140'120141' - 225'	#8 #6		
CTOR SHALL REFER TO			* - THE LENGTH IS MEASURED FROM THE CIRCU			
INS OF ALL EQUIPMENT, UNLESS			BRANCH CIRCUIT SERVES. WHERE THE DISTANCE ENGINEER.	CE EXCEEDS ABOVE, CONSULT WITH THE		В.
SYSTEMS FOR PROPER FUNCTION CONFIRMATION SHALL BE SENT TO	5.	WIF	<u>G DEVICES:</u>			
G THE TESTS PERFORMED, THE E. "LIFE SAFETY" EQUIPMENT AND		Α.	IRING DEVICES SHALL BE SPECIFICATION GRADE, DICATED BELOW OR AS MANUFACTURED BY HU	BBELL, LEGRAND-PASS & SEYMOUR, LEVITON,		C.
DING CODE, THE NATIONAL QUIREMENTS THAT MAY APPLY.			R APPROVED EQUAL, UNLESS OTHERWISE NOTED): 	11.	EC
ERS A PROBLEM WITH THE S AND SPECIFICATIONS, THE NEC,			VITCHES (120/277V) SHALL BE AS FOLLOWS:			A.
LL IMMEDIATELY BRING THE GINEER FOR RESOLUTION PRIOR TO			SINGLE-POLE 20 AMP DOUBLE-POLE 20 AMP	COOPER AH1221 COOPER AH1222		
IFICATIONS, THE CONTRACTOR			THREE-WAY 20 AMP FOUR-WAY 20 AMP	COOPER AH1223 COOPER AH1224		
FOR RESOLUTION PRIOR TO THE ADDITIONAL COSTS SHALL BE			SINGLE-POLE-PILOT 20 AMP DOUBLE-POLE-PILOT 20 AMP	COOPER AH1221PL COOPER AH1222PL		B.
TAINING AND PROVIDING			THREE-WAY-PILOT 20 AMP SINGLE-POLE-KEY 20 AMP	COOPER AH1222PL COOPER AH1223PL COOPER AH1221I		D.

E. ALL OUTLET BOXES (INCLUDING TELEPHONE, CABLE TV, AND COMPUTER) SHALL HAVE COVER PLATES, BLANK IF NOT USED. LIALL DE VALATED TICUT

SINGLE-POLE 20 AMP	COOPER AH1221
DOUBLE-POLE 20 AMP	COOPER AH1222
THREE-WAY 20 AMP	COOPER AH1223
FOUR-WAY 20 AMP	COOPER AH1224
SINGLE-POLE-PILOT 20 AMP	COOPER AH1221PL
DOUBLE-POLE-PILOT 20 AMP	COOPER AH1222PL
THREE-WAY-PILOT 20 AMP	COOPER AH1223PL
SINGLE-POLE-KEY 20 AMP	COOPER AH1221L
DOUBLE-POLE-KEY 20 AMP	COOPER AH1222L
THREE-WAY-KEY 20 AMP	COOPER AH1223L
FOUR-WAY-KEY 20 AMP	COOPER AH1224L

DUPLEX RECEPTACLES SHALL HAVE A NYLON FACE AND SHALL BE AS FOLLOWS:

15 AMP DUPLEX	COOPER 5252
20 AMP DUPLEX	COOPER 5352
15 AMP DUPLEX GFCI	COOPER SGF15F
20 AMP DUPLEX GFCI	COOPER SGF20F
15 AMP DUPLEX TAMPER	COOPER TR5262
20 AMP DUPLEX TAMPER	COOPER TR5362
15 AMP DUPLEX GFCI-TAMPER	COOPER TRSGF15F
20 AMP DUPLEX GFCI-TAMPER	COOPER TRSGF20F

THE PART NUMBERS ABOVE ARE FOR WIRING DEVICE TYPE ONLY. SEE BELOW FOR WIRING DEVICE COLOR AND PLATE MATERIAL/COLOR.

- SEE MOUNTING HEIGHT ELEVATION DETAIL FOR STANDARD MOUNTING HEIGHTS OF ALL DEVICES, UNLESS OTHERWISE NOTED. THE COLOR OF ALL WIRING DEVICES (SWITCHES AND RECEPTACLES) SHALL BE AS DIRECTED BY THE ARCHITECT, UNLESS OTHERWISE NOTED. ALL COVER PLATES SHALL BE 302 STAINLESS STEEL.
- COVER PLATES IN MASONRY WALLS SHALL BE JUMBO SIZE. EACH DUPLEX RECEPTACLE INDICATED TO BE ON A DEDICATED CIRCUIT SHALL BE 20 AMP TYPE. ADJACENT DEVICES SHALL HAVE A COMMON WALL PLATE.
- WEATHERPROOF COVERS SHALL BE "WHILE-IN-USE" SO PLUGS MAY BE INSTALLED WITHOUT COMPROMISING THE WP FUNCTION. COOPER #WIU-2 DOUBLE-GANG WITH CLEAR COVER OR APPROVED EOUAL
- A MAXIMUM OF 10 GENERAL PURPOSE RECEPTACLES SHALL BE ON EACH BRANCH CIRCUIT. DIMMERS SHALL BE LINEAR SLIDE, PRESENT ON/OFF, SQUARE LAW DIMMING, W/RFI FILTERING AND VOLTAGE COMPENSATION CIRCUITING.
- ALL WALL MOUNTED OCCUPANCY/VACANCY SENSORS/SWITCHES SHALL BE INSTALLED WITH AN EQUIPMENT GROUNDING CONDUCTOR. GROUND-FAULT CIRCUIT-INTERRUPTER (GFCI) PROTECTION FOR PERSONNEL SHALL BE PROVIDED FOR ALL LOCATIONS PER NEC 210.8, INSTALLED IN A READILY ACCESSIBLE LOCATION. WHERE A DEVICE LOCATION IS NOT ACCESSIBLE, THE GFCI PROTECTION SHALL BE PROVIDED WITH THE
- BREAKER SERVING THE DEVICE. ALL GFCI RECEPTACLES SHALL HAVE AUTO-MONITORING / SELF-TEST FUNCTION AND REVERSE LINE-LOAD MISFIRE FUNCTION AND MEET ALL REQUIREMENTS OF UL 943 (LATEST EDITION). TAMPER-RESISTANT RECEPTACLES SHALL BE PROVIDED FOR ALL AREAS PER NEC 406.12, INCLUDING DWELLING UNITS, GUEST ROOMS, GUEST SUITES AND COMMON AREAS OF HOTELS AND MOTELS, CHILD-CARE FACILITIES, PRESCHOOL AND ELEMENTARY EDUCATION FACILITIES,
- BUSINESS OFFICES/CORRIDORS/WAITING ROOMS AND THE LIKE IN CLINICS/MEDICAL/DENTAL OFFICES AND OUTPATIENT FACILITIES, ASSEMBLY OCCUPANCIES INCLUDING PLACES OF AWAITING TRANSPORTATION/GYMNASIUMS/SKATING RINKS/AUDITORIUMS, AND DORMITORIES/STUDENT HOUSING.

SUPPORTS:

- ALL EQUIPMENT SHALL BE ADEQUATELY SUPPORTED FROM STRUCTURE. INSERTS IN MASONRY SHALL BE LEAD OR FIBER IN DRILLED HOLES, OR CAST IN PLACE.
- NAILS OR POWDER ACTUATED FASTENERS SHALL NOT BE USED EMT/IMC/RGS SUPPORTS SHALL BE A MAXIMUM OF 8'-0" APART AND A MAXIMUM OF 3'-0" FROM BOXES
- LIGHTING FIXTURES MOUNTED IN OR ON CEILING SHALL BE SUPPORTED FROM STRUCTURE VIA 12 GAUGE STEEL WIRE. PROVIDE A MINIMUM OF FOUR WIRES, ONE ATTACHED TO EACH CORNER OF LAY-IN FIXTURES. RECESSED DOWNLIGHT FIXTURES SHALL BE SUPPORTED THE SAME. DO NOT SUPPORT RACEWAY OR FIXTURES FROM CEILING GRID OR DUCT WORK. USE U.L. LISTED GRID CLIPS ON ALL LAY-IN FIXTURES.

TELECOMMUNICATIONS:

- FURNISH A COMPLETE TELEPHONE CONDUIT SYSTEM AS INDICATED ON THE DRAWINGS. TELECOMMUNICATION OUTLETS SHALL CONSIST OF A 4" SQUARE DEEP BOX WITH SINGLE GANG PLASTER RING. PROVIDE BLANK PLATE WITH KNOCKOUTS FOR OUTLETS, AS PERMANENT COVERS WILL BE PROVIDED BY A SEPARATE INSTALLER.
- PROVIDE MINIMUM 1" RACEWAY, UNLESS OTHERWISE NOTED, FROM EACH BOX TO ABOVE NEAREST ACCESSIBLE CEILING SPACE FOR J-HOOK SYSTEM OR TO CABLE TRAY AS APPLICABLE. PROVIDE MINIMUM 210# TEST NYLON PULL CORD AND NYLON BUSHINGS IN ALL EMPTY RACEWAYS
- PROVIDE RACEWAYS FOR ALL EXTERIOR AND/OR EXPOSED LOCATIONS. PROVIDE GROUNDING FOR ALL TELEPHONE/DATA SYSTEMS AND EQUIPMENT PER REQUIREMENTS AND SPECIFICATIONS PROVIDED BY THE OWNERS DESIGNATED VENDOR.

- ALL LOW-VOLTAGE CABLING SHALL BE PLENUM-RATED.
- G. CONTRACTOR SHALL FURNISH AND INSTALL A #6 AWG GREEN INSULATED COPPER WIRE IN CONDUIT FROM THE MAIN ELECTRICAL GROUNDING BAR TO TELECOMMUNICATIONS GROUNDING BUS BAR
- PROVIDE MOUNTING BACKBOARDS FOR COMMUNICATIONS EQUIPMENT. BACKBOARDS SHALL BE OF 3/4" TYPE AC, EXTERIOR PLYWOOD, PAINTED BOTH SIDES AND ALL EDGES WITH 2 COATS OF GRAY FLAME RETARDANT PAINT. VERIFY SITE LOCATION OF TELEPHONE SERVICES WITH APPROPRIATE VENDOR, PRIOR TO
- SUBMITTING BID. TELEPHONE SERVICE CONDUITS SHALL BE PROVIDED TO THE PROPERTY LINE OR POINT AS DIRECTED BY THE LOCAL UTILITY.
- IGHTING FIXTURES:
- A. TYPES AND MANUFACTURERS ARE SCHEDULED ON THE PLANS. EQUIVALENT FIXTURES BY OTHERS MAY BE SUBMITTED ONLY AS INDICATED ON THE PLANS AND ARE SUBJECT TO THE APPROVAL OF THE OWNER AND ENGINEER. ALL FIXTURES SHALL BE U.L. LISTED AND LABELED.
- LAMPS SHALL BE GENERAL ELECTRIC, PHILIPS, OR OSRAM/SYLVANIA EXCEPT WHERE OTHERWISE NOTED IN THE LIGHTING FIXTURE SCHEDULE OR OTHERWISE NOTED. ALL FIXTURES SHALL BE FOUIPPED WITH LAMPS
- D. BALLASTS SHALL BE AS INDICATED IN THE LIGHTING FIXTURE SCHEDULE OR AS OTHERWISE NOTED ALL FIXTURES SHALL BE PROVIDED FOR PROPER VOLTAGE BASED ON THE CIRCUIT ASSIGNMENT
- INDICATED ON THE PLANS.
- CATALOG NUMBERS ARE FOR GENERAL IDENTIFICATION OF FIXTURES ONLY. ALL RELATED PARTS, SUCH AS PLASTER RINGS, JUNCTION BOXES, LOUVERS, SHIELDS, MOUNTING STEMS, CANOPIES, CONNECTORS, STRAPS, NIPPLES, HARDWARE, ACCESSORIES, ETC., TO FIT THEM PROPERLY TO THE CONSTRUCTION, SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. CONTRACTOR SHALL PROVIDE SUITABLE TRIM AND APPURTENANCES TO MOUNT FIXTURES IN TYPE OF CEILING OR WALL AS SPECIFIED IN ARCHITECTURAL FINISH SCHEDULES REGARDLESS OF CATALOG NUMBER ALL FIXTURES SHALL BE GROUNDED PER THE NEC.
- FIXTURES CONNECTED WITH FLEX TO THE RIGID RACEWAY PORTION OF THE WIRING SYSTEM SHALL CARRY A GREEN BONDING JUMPER WITHIN THE FLEX. THE JUMPER SHALL BE FASTENED TO BOTH THE FIXTURE AND THE RACEWAY SYSTEM WITH A STEEL CITY "G" CLIP OR APPROVED EQUIVALENT. PHASE AND GROUND CONDUCTORS RUN IN FLEX SHALL BE #12 AWG MINIMUM. MAXIMUM FLEX LENGTH SHALL BE 6'-0" SURFACE-MOUNTED FLUORESCENT FIXTURES INSTALLED ON COMBUSTIBLE MATERIAL SHALL BE
- MOUNTED AT LEAST 1/4" FROM THE SURFACE OF THE MATERIAL, EXCEPT FOR FIXTURES WHICH ARE PLAINLY MARKED AS U.L. APPROVED FOR MOUNTING DIRECTLY TO SUCH SURFACES. MOUNT ALL FIXTURES PLUMB AND SQUARE WITH ROWS ALIGNED. FLUORESCENT LUMINAIRES THAT UTILIZE DOUBLE-ENDED LAMPS AND CONTAIN BALLAST(S) THAT
- CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS WITHER INTEGRAL OR EXTERNAL TO EACH LUMINAIRE PER NEC 410.130(G).
- SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF FIXTURES. CONTRACTOR SHALL COORDINATE FIXTURE TYPE AND TRIM WITH CEILING CONSTRUCTION AND ADJUST ACCORDINGLY WITHOUT ADDITIONAL EXPENSE. ALL LIGHTING FIXTURES SHALL BE THERMALLY PROTECTED PER THE NEC.
- FIXTURES IN CONTACT WITH INSULATION SHALL BE IC RATED.
- FOR RECESSED LIGHTING FIXTURES IN FIRE RATED CEILINGS, PROVIDE A MANUFACTURER APPROVED AND LISTED FIRE RATED COVER/ASSEMBLY OVER THE FIXTURE TO MAINTAIN THE INTEGRITY OF THE CEILING FIRE RATING. ANY LIGHTING FIXTURES INSTALLED UNDER THE FIRE RATED CAP SHALL BE SUITABLE FOR THE INSTALLATION.

IGHTING CONTROLS:

- A. FURNISH AND INSTALL WHERE SHOWN AN ELECTRONIC TIME CONTROLLER AS MANUFACTURED BY TORK (NSI), PARAGON, INTERMATIC, OR APPROVED EQUAL. CONTACTS SHALL BE SPST OR AS INDICATED, RATED 120/277V AT 20A BALLAST LOAD, AND MINIMUM 30,000 SWITCHING CYCLES. PROVIDE WITH THE NUMBER OF CHANNELS INDICATED (MINIMUM 2 CHANNELS) OR AS REQUIRED TO MEET THE INTENT OF THE DRAWINGS. EACH CHANNEL SHALL BE INDIVIDUALLY PROGRAMMABLE WITH 128 ON-OFF OPERATIONS PER WEEK PLUS FOUR SEASONAL SCHEDULES TO MODIFY THE BASIC PROGRAM AND A HOLIDAY SCHEDULE THAT OVERRIDES THE WEEKLY OPERATION. THE CONTROLLER SHALL BE PROVIDED WITH A PHOTOELECTRIC SENSOR. ASTRONOMIC DIAL, AND A BATTERY BACKED-UP, NON-VOLITILE MEMORY FOR SCHEDULES AND TIME CLOCK
- B. LIGHTING CONTACTORS SHALL SWITCH LOADS AT THE VOLTAGE AND AMPERE RATING INDICATED AND SHALL HAVE THE NUMBER OF POLES INDICATED ON THE DRAWINGS OR AS REQUIRED. THE CONTACTOR AND CONTACTS SHALL BE CONTINUOUSLY RATED FOR THE LOAD SERVED.
- INCLUDING TUNGSTEN FILAMENT, INDUCTIVE, AND HIGH-INRUSH BALLAST LOADS.
- ALL LIGHTING CONTACTORS SHALL BE ELECTRICALLY HELD AND BE INSTALLED IN A NEMA 1 ENCLOSURE, UNLESS OTHERWISE NOTED.

EQUIPMENT IDENTIFICATION:

- PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT SUPPLIED FOR THE PROJECT. INCLUDING BUT NOT LIMITED TO, WIRING TROUGHS, SAFETY SWITCHES, DISCONNECTS, TRANSFORMERS, PANELBOARDS, SWITCHBOARDS, ETC. NAMEPLATE SHALL INDICATE THE DEVICE NAME. SYSTEM VOLTAGE (VOLTAGE/PHASE/WIRE), AND UPSTREAM DEVICE AND CIRCUIT. PROVIDE NAMEPLATES FOR CIRCUIT BREAKERS IN SWITCHGEARS, SWITCHBOARDS AND DISTRIBUTION
- B. NAMEPLATE COLORS SHALL BE AS FOLLOWS:
- BLUE SURFACE WITH WHITE CORE 0/208V EOUIPMEN FIRE ALARM SYSTEM BRIGHT RED SURFACE WITH WHITE CORE SECURITY SYSTEMS BURGUNDY SURFACE WITH WHITE CORE TELEPHONE SYSTEMS ORANGE SURFACE WITH WHITE CORE BROWN SURFACE WITH WHITE CORE DATA SYSTEMS
- TV SYSTEMS PURPLE SURFACE WITH WHITE CORE PAGING SYSTEMS WHITE SURFACE WITH BLACK CORE
- NAMEPLATES UP TO 8 SQUARE INCHES SHALL NOT BE LESS THAN 1/16" THICK. NAMEPLATES LARGER THAN 8 SQUARE INCHES SHALL NOT LESS THAN 1/8" THICK.
- LETTERING HEIGHT SHALL BE 1/2" MINIMUM. NAMEPLATES SHALL BE ATTACHED WITH SELF-DRILLING/SELF-TAPPING SCREWS, EXCEPT RIVETS SHALL BE USED WHERE END OF SCREW IS NOT PROTECTED. QUANTITY AS FOLLOWS: UP TO 5 SQUARE INCHES: 2 SCREWS.
- 5 TO 12 SQUARE INCHES: 4 SCREWS. ABOVE 12 SQUARE INCHES: 6 SCREWS.

12. DISCONNECTS:

- A. DISCONNECT SWITCHES SHALL BE HEAVY-DUTY TYPE IN NEMA 1 ENCLOSURES. UNLESS OTHERWISE NOTED, FUSED OR NON-FUSED AS INDICATED. SWITCHES SHALL HAVE REJECTION-TYPE FUSE CLIPS. SWITCHES SHALL BE BY EATON, SQUARE-D, GENERAL ELECTRIC, OR APPROVED EQUAL. WHERE FED FROM A LOAD CENTER, GENERAL-DUTY SWITCHES SHALL BE PERMITTED
- FUSES LESS THAN 60A SHALL BE CLASS RK5, DUAL-ELEMENT, TIME-DELAY WITH INDICATION FUSES GREATER THAN 60A SHALL BE CLASS J, DUAL-ELEMENT, TIME-DELAY WITH INDICATION.
- D. A SET OF 3 SPARE FUSES OF EACH SIZE AND TYPE SHALL BE FURNISHED TO THE OWNER

13. PANELBOARDS:

- A. PANELBOARDS SHALL BE PROVIDED AS MANUFACTURED BY EATON, SQUARE-D, GENERAL ELECTRIC, OR APPROVED EQUAL, ALL NEW EQUIPMENT FOR THE PROJECT SHALL BE BY THE SAM MANUFACTURER. LOAD CENTER TYPE PANELBOARDS SHALL BE USED WHERE THE PANELBOARD SERVES A DWELLING UNIT
- ALL BUSSING, INCLUDING NEUTRAL AND GROUND, SHALL BE COPPER. ALL BREAKERS SHALL BE AUTOMATIC THERMAL-MAGNETIC TYPE MOLDED CASE BOLT-ON TYPE, CALIBRATED FOR 40 DEGREE C, OR AMBIENT COMPENSATION, UNLESS OTHERWISE NOTED.
- PANELS SHALL BE FULLY RATED (AIC). NO SERIES AIC RATINGS ARE ALLOWED.
- PANELS SHALL HAVE FULL SIZE EQUIPMENT GROUNDING BARS AND NEUTRAL BARS, EXCEPT WHERE INDICATED TO BE 200%.
- ALL PANELBOARD AND BREAKER LUGS SHALL BE SIZED AND RATED PER THE CONDUCTOR SIZE AND MATERIAL G. LIGHTING AND APPLIANCE PANELS (100A-600A) SHALL HAVE FRONT ACCESSIBLE HINGED
- DOOR-IN-DOOR COVERS WITH DEAD FRONT, SHALL BE 20" WIDE MINIMUM WITH MINIMUM 4" WIDE WIRING GUTTERS.
- H. DISTRIBUTION PANELS (600A-1200A) SHALL HAVE FRONT ACCESSIBLE DEAD FRONT COVERS. PROVIDE HANDLE LOCK-ON DEVICES FOR ALL CIRCUIT BREAKERS CONNECTED TO EMERGENCY, EXIT, NIGHT LIGHTING, FIRE ALARM, TELEPHONE BOARDS, AND SECURITY SYSTEMS.
- BREAKERS USED FOR SWITCHING SHALL BE SWITCHING DUTY (SWD) RATED. BREAKERS USED FOR HEATING, AIR-CONDITIONING AND/OR REFRIGERATION SHALL BE HACR RATED

WITH AN ENERGY-REDUCING MAINTENANCE SWITCH WITH LOCAL STATUS INDICATOR PER NEC

L. GROUND-FAULT CIRCUIT-INTERRUPTER (GFCI) PROTECTION FOR PERSONNEL SHALL BE PROVIDED FOR ALL LOCATIONS PER NEC 210.8, INSTALLED IN A READILY ACCESSIBLE LOCATION. WHERE A

HOTEL/MOTEL GUEST ROOMS/SUITES AS DEFINED BY THE NEC.

COORDINATION REQUIREMENTS PER THE NEC.

BREAKER SERVING THE DEVICE.

AND IN THE OFF POSITION

240.87(B).

15. FIRE ALARM SYSTEM:

- DEVICE LOCATION IS NOT ACCESSIBLE. THE GFCI PROTECTION SHALL BE PROVIDED WITH THE
- M. ARC-FAULT CIRCUIT-INTERRUPTER (AFCI) PROTECTION SHALL BE PROVIDED FOR ALL LOCATIONS PER NEC 210.12, INSTALLED IN A READILY ACCESSIBLE LOCATION. THIS INCLUDES ALL 120V, 15A AND 20A BRANCH CIRCUITS IN DWELLING UNITS, DORMITORY/STUDENT HOUSING UNITS AND
- ALL OVERCURRENT DEVICES WHICH COMPRISE THE EMERGENCY SYSTEM OR LEGALLY REQUIRED STANDBY SYSTEM SHALL BE SELECTIVELY COORDINATED. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MANUFACTURER DOCUMENTATION INDICATING COMPLIANCE WITH THE SELECTIVE
- O. ALL PANELBOARDS SHALL HAVE METAL DIRECTORY FRAME. FOR EACH PANELBOARD, PROVIDE TYPED CIRCUIT DIRECTORY PER NEC 408.4. SPARE CIRCUIT BREAKERS SHALL BE LABELED SPARE
- ALL CIRCUIT BREAKERS RATED 1200A OR HIGHER, OR CAPABLE OF BEING RATED 1200A OR HIGHER (I.E. ADJUSTABLE LONG-TIME PICKUP OR REPLACEABLE TRIP/RATING PLUG), SHALL BE PROVIDED
- N. SYSTEM SHALL BE A CENTRALIZED, ANALOG, ADDRESSABLE, FULLY ELECTRONICALLY SUPERVISED

(INCLUDING AUXILIARY SYSTEMS INTERCONNECT WIRING) SYSTEM LISTED BY UL IN COMPLIANCE WITH ALL APPLICABLE NFPA 72 AND OTHER STANDARDS AS WELL AS THE AMERICAN'S WITH DISABILITIES ACT (ADA). ALL FINAL CONNECTIONS, TESTING AND ADJUSTMENTS SHALL BE PERFORMED BY OR UNDER DIRECT SUPERVISION OF AN AUTHORIZED FACTORY REPRESENTATIVE. SYSTEM SHALL BE SIMPLEX. NOTIFIER, SIEMENS, OR APPROVED EQUAL AS ACCEPTED BY THE ENGINEER. SYSTEM SHALL HAVE A 24HR MINIMUM BATTERY BACKUP.

- INITIATING DEVICE ACTIVATION SHALL CAUSE OPERATION OF THE PROPER ALARM CIRCUIT IN THE CONTROL PANEL, AND OPERATE ALL AUDIBLE AND VISUAL INDICATING ALARMS. ALL AIR HANDLING UNITS SHALL BE STOPPED UPON ANY ALARM INPUT. EACH AIR HANDLER UNIT SHALL BE PROVIDED WITH A SYSTEM CONTROLLED RELAY TO EFFECT SHUTDOWN. ALL ALARM DEVICES AND LAMPS SHALL CONTINUE TO OPERATE UNTIL THE INITIATING DEVICE IS RESET. SUBSEQUENT ALARMS SHALL RESOUND THE SYSTEM. AN AUDIBLE AND VISUAL SIGNAL SHALL INDICATE SYSTEM TROUBLE. THE CONTROL PANEL SHALL PROVIDE FOR ACTIVATING A UL LISTED CENTRAL STATION SIGNAL FOR NOTIFYING THE FIRE DEPARTMENT.
- MANUAL STATIONS SHALL BE NON-CODED, WITH DUAL-ACTION PULL AND KEY TYPE RESET, SEMI-FLUSH MOUNTED. COMBINATION LIGHT AND HORN SIGNALS SHALL BE FLUSH MOUNTED. WIRING SHALL BE IN CONDUIT AS PREVIOUSLY SPECIFIED, #14 AWG MINIMUM, THHN. ALL J-BOXES USED FOR THE FIRE ALARM SYSTEM SHALL BE PAINTED RED. SPRINKLER SYSTEM TAMPER SWITCHES SHALL BE CONNECTED INTO A COMMON ZONE WHICH
- SHALL DISTINGUISH BETWEEN A CONDUIT FAULT AND A CLOSED VALVE. A CLOSED VALVE SHALL BE INDICATED AS AN ALARM CONDITION, BUT WILL NOT ACTIVATE THE AUDIO-VISUAL DEVICES AND SHALL CAUSE A SUPERVISORY SIGNAL TO BE TRANSMITTED TO THE CENTRAL STATION. CONDUCTORS SHALL BE PLENUM-RATED AND INSTALLED IN CONDUIT AND INSTALLED IN COMPLIANCE WITH NFPA 70, ARTICLE 760; IN ADDITION TO WIRING METHODS 300.4.
- ALL FIRE ALARM WIRING SHALL BE CLASS B.
- PROVIDE ALL REQUIRED MODULES, POWER EXTENDERS, PROGRAMMING, ETC. FOR A COMPLETE AND OPFRATIONAL SYSTEM SUBMIT FIRE ALARM SHOP DRAWINGS CONSISTING OF PRODUCT DATA, TO THE ENGINEER AND
- FOR APPROVAL V. FILL OUT NFPA 72 CERTIFICATION REPORT AND SUBMIT TO ENGINEER AND AUTHORITY HAVING JURISDICTION.
- W. WARRANTY ALL WORK PERFORMED AND ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL BE FREE FROM DEFECTS AND SHALL REMAIN SO FOR A PERIOD OF AT LEAST TWO (2) YEARS FROM THE DATE OF ACCEPTANCE BY THE PROFESSIONAL ENGINEER AND/OR OWNER. THE FULL COST OF MAINTENANCE, LABOR, AND MATERIALS REQUIRED TO CORRECT ANY DEFECT DURING THIS TWO YEAR PERIOD SHALL BE IMMEDIATELY CORRECTED AT NO ADDITIONAL COST TO THE OWNER ANY DEFECTS THAT RENDER THE SYSTEM INOPERATIVE SHALL BE REPAIRED WITHIN 24 HOURS OF THE OWNER NOTIFYING THE CONTRACTOR. OTHER DEFECTS SHALL BE REPAIRED WITHIN 48 HOURS OF THE OWNER NOTIFYING THE CONTRACTOR.
- AUDIBLE DEVICES WITHIN SLEEPING ROOMS SHALL PROVIDE A SQUARE WAVE 520HZ TONE COMPATIBLE WITH NFPA 72 18.4.5.3. PROVIDE ALL REPROGRAMMING AND/OR REWORK AND/OR REPLACEMENT OF EXISTING FIRE ALARM PANEL AS REQUIRED.

16. FIRE STOPPING:

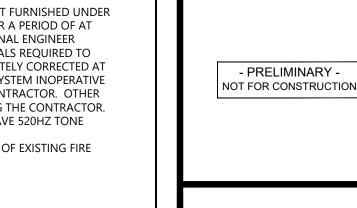
- A. ALL PENETRATIONS OF RATED ASSEMBLIES SHALL BE SEALED WITH RATED MATERIALS MEETING ASTM F-814 PROVIDE FIRESTOPPING DEVICE(S) OR SYSTEM(S) WHICH HAVE BEEN TESTED AND LISTED AS
- COMPLYING WITH ASTM E-814. INSTALL THE DEVICE(S) OR SYSTEM(S) IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING. PROVIDE THE APPROPRIATE DEVICE(S) OR SYSTEM(S) WITH AN 'F' RATING EQUAL TO THE RATING OF THE ASSEMBLY BEING PENETRATED. C. DEVICE(S) AND/OR SYSTEM(S) SHALL BE BY HILTI, 3M OR EQUIVALENT.

17. <u>SEISMIC:</u>

A. THE ELECTRICAL CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR PROVIDING SEISMIC SUPPORT AND BRACING OF ELECTRICAL COMPONENTS TO RESIST THE EFFECTS OF EARTHQUAKES ON THE ELECTRICAL SYSTEM AS WELL AS ANY REQUIRED SPECIAL INSPECTIONS BASED ON THE SPECIFIC GEOGRAPHIC LOCATION AS REQUIRED. THE SEISMIC RESTRAINTS AND SPECIAL INSPECTIONS SHALL MEET ALL APPLICABLE STATE AND LOCAL BUILDING CODE REQUIREMENTS AS WELL AS ASCE-7 REOUIREMENTS.

ELECTRICAL COORDINATION WITH OTHER TRADES:

- A. THE ELECTRICAL CONTRACTOR SHALL CONNECT AND/OR PROVIDE FINAL CONNECTIONS TO ALL EQUIPMENT SUPPLIED BY OTHERS APPLICABLE TO THE PROJECT, INCLUDING BUT NOT LIMITED TO, MECHANICAL, PLUMBING, FIRE PROTECTION AND SUPPRESSION, OWNER FURNISHED, KITCHEN, LABORATORY, ETC. UNLESS OTHERWISE NOTED.
- B. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONNECTIONS PRIOR TO ROUGH-IN USING APPROVED CATALOG SHEETS AND SHOP DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANUAL MOTOR STARTER SWITCHES, DISCONNECT SWITCHES, RECEPTACLES, ETC. TO MECHANICAL AND PLUMBING EQUIPMENT. ALL STARTERS, OTHER THAN MANUAL STARTER SWITCHES, SHALL BE PROVIDED BY OTHERS, BUT INSTALLED BY THE ELECTRICAL CONTRACTOR.
- ALL DISCONNECT SWITCHES AND FUSE SIZES SHALL BE COORDINATED WITH SHOP DRAWINGS PRIOR TO ORDERING OR INSTALLING. ANY EQUIPMENT INSTALLED INCORRECTLY BECAUSE OF LACK OF COORDINATION WILL BE REMOVED AND INSTALLED CORRECTLY AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT RUNS AND LIGHT FIXTURE LOCATIONS ABOVE THE CEILING WITH OTHER TRADES PRIOR TO INSTALLATION. ALL DUCT SMOKE DETECTORS SHALL BE PROVIDED AND CONNECTED BY THE ELECTRICAL
- CONTRACTOR, BUT INSTALLED BY THE MECHANICAL CONTRACTOR. G. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY OUTLETS FOR HEAT TAPE CONNECTIONS FOR MECHANICAL SYSTEMS. PROVIDE CLASS B (30mA) GFCI PROTECTION ON THE BREAKER SUPPLYING THE HEAT TAPE
- H. THE ELECTRICAL CONTRACTOR SHALL PROVIDE 120V POWER AT EACH HVAC UNIT HAVING A CONTROLS POWER SUPPLY. CIRCUIT(S) SHALL BE DEDICATED 20A SERVING A MAXIMUM OF 10 HVAC UNITS PER CIRCUIT. COORDINATE ALL LOCATIONS WITH THE MECHANICAL CONTRACTOR.



CLIENT:
The orchards at Naples Road, L
Ad Numeric Otroph

SIGNATURE:

Wilde ——

engineering

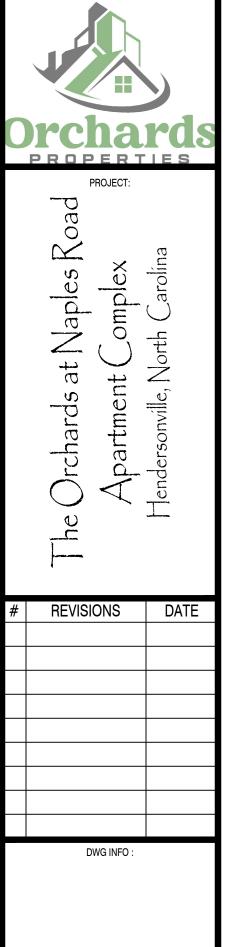
15822 Kelly Park Cir intersville, N 04) 439-7038

NC Firm License No. P-2182

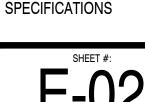
- PRFI IMINARY -

NICAL, ELECTRICAL & PLUMBI

341 N main Street	
Hendersonville, NC 28792	
Luis Graef: President	

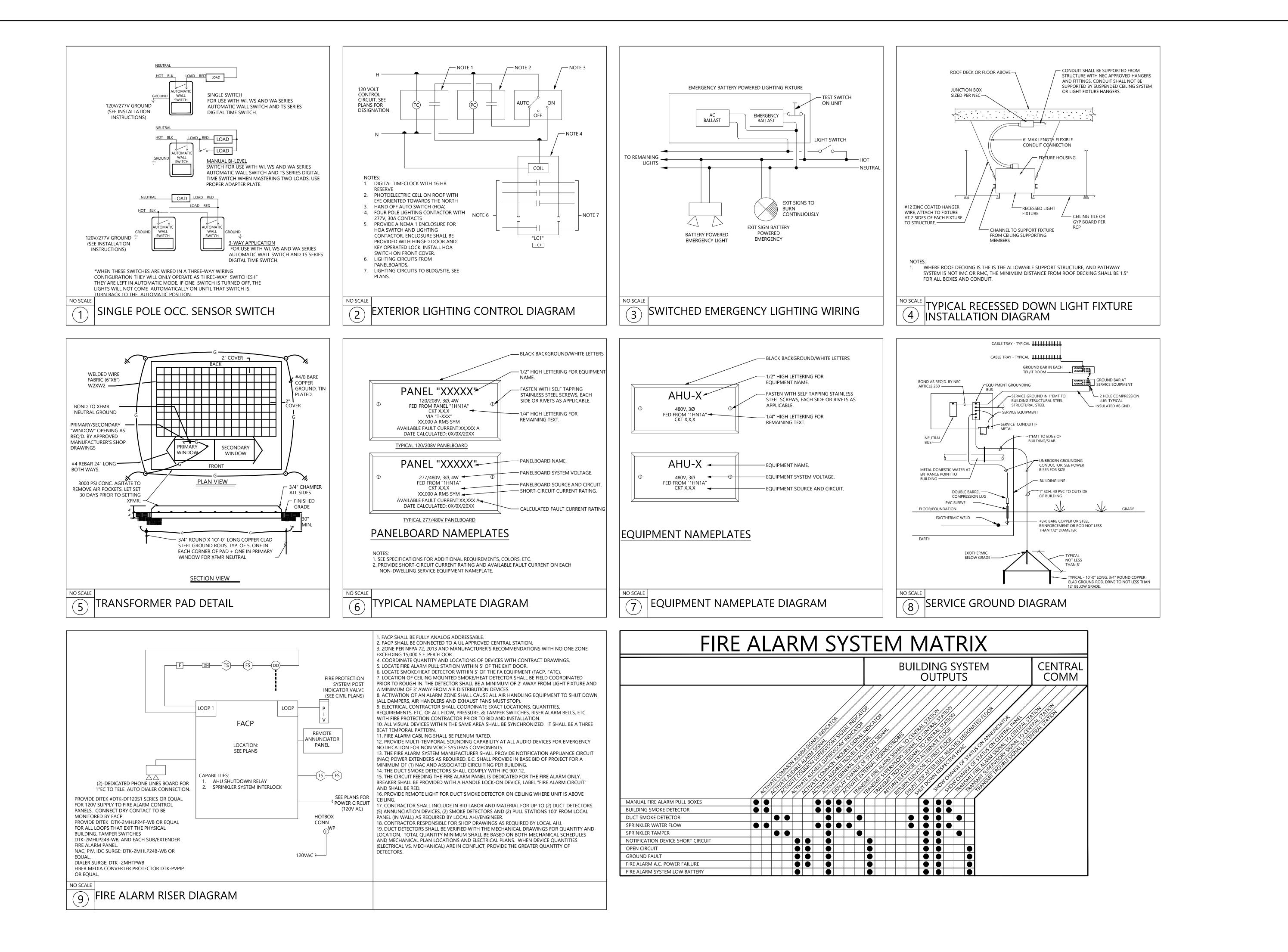


DWG DECRIPTION : ELECTRICAL



NILDE #: 24-12

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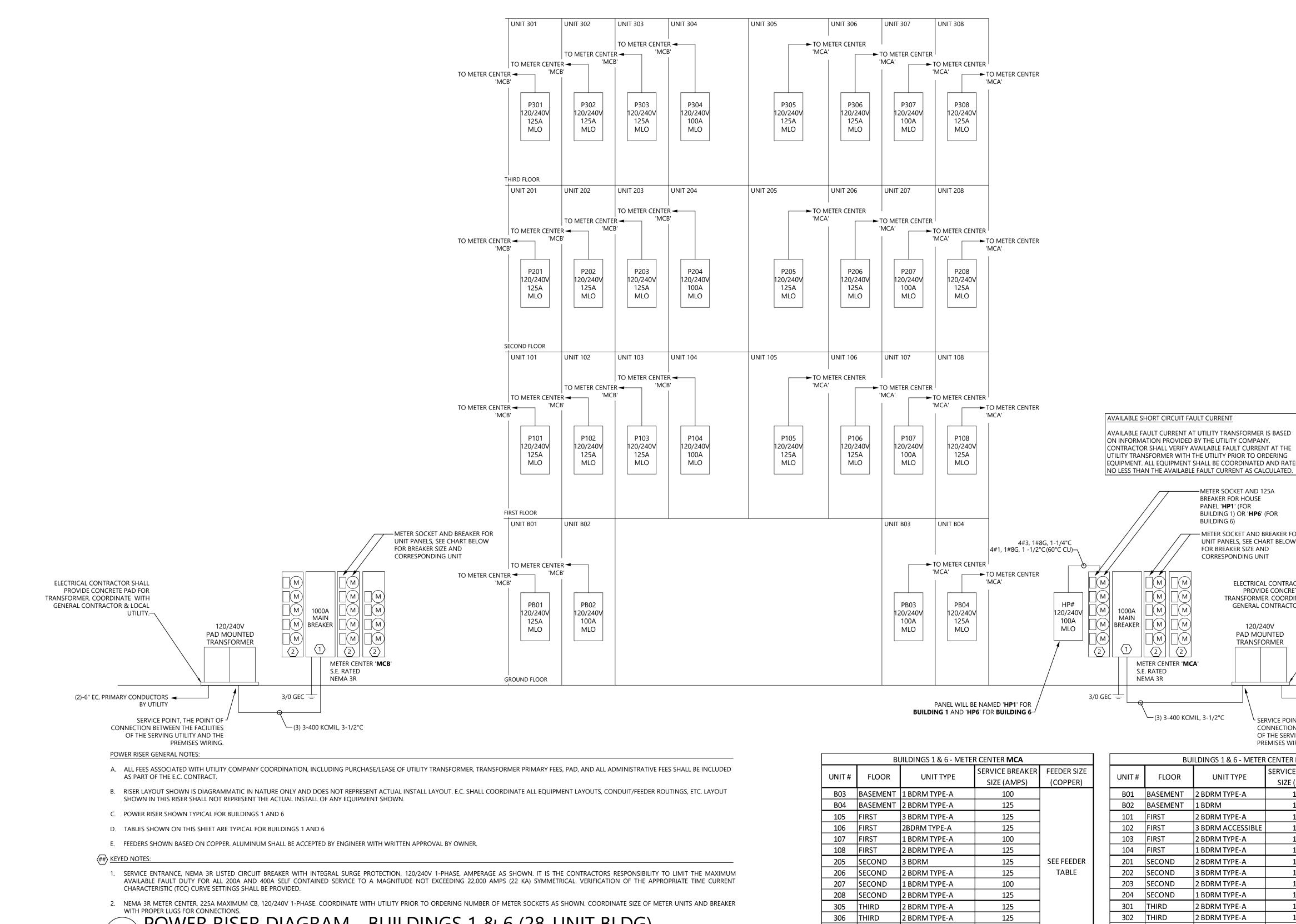


		Wilde engineer Mechanical, electrical & I 15822 Kelly Park Ci Huntersville, NC (704) 439-7038 NC Firm License No. P-3	PLUMBING
		- PRELIMINAR NOT FOR CONSTRU	
		SIGNATURE:	
	34 [.] He	CLIENT: e orchards at Naples 1 N main Street ndersonville, NC 287 s Graef: President	
		The Orchards at Naples Road Apartment Complex	Hendersonville, North Carolina
	#	REVISIONS	DATE
		DWG INFO :	
	E	DWG DECRIPTION	

C-U3

WILDE #: 24-125

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POWER RISER DIAGRAM - BUILDINGS 1 & 6 (28-UNIT BLDG) NOT TO SCALE

DEMAN	D LOADS:	METER CEN	ITER 'MCA'		DEMAND LOADS:	METER CENT	TER 'MCB'	RESID	ENTIAL FEE	DER SIZING	TABLE, COPP	ER CONDUCT	ORS (240V, 1	L-PHASE,
NUMBER			NUMBER TOTAL			SERVICE RATING			Γ	MAXIMUM DISTAN	ICE			
	OF UNITS	UNIT KVA	KVA		OF UNITS	UNIT KVA	KVA	(AMPS)	0 - 150'	151' - 175'	176' - 200'	201' - 225'	226' - 250'	251' - 27
2 BEDROOM UNIT	8	40.92	327.37		2 BEDROOM UNIT 8	40.92	327.37	100	3#3, 1#8G,	3#2, 1#6G,	3#1,	1#4G,	3#1/0), 1#4G,
1 BEDROOM UNIT	4	38.11	152.45		1 BEDROOM UNIT 4	38.11	152.45	100	1"C	1-1/4"C	1-1/4"C		1-1	/2"C
3 BEDROOM UNIT	2	42.07	84.14		3 BEDROOM UNIT 2	42.07	84.14	110	3#2,	1#6G <i>,</i>	3#1, 1#4G,	3#1/0), 1#3G,	
					3 BEDROOM ONT 2 42.07 64.14			110	1-1	/4"C	1-1/4"C	1-1	L/2"C	
								125	3#1,	1#6G,	3#1/0	D, 1#4G,	3#2/0), 1#4G,
								125	1-1	/4"C	1-1	L/2"C	1-1	/2"C
TOTAL # OF UNITS	14				TOTAL # OF UNITS 14			150	•), 1#6G,	3#2/0	D, 1#4G,	3#3/0, 1#4G,	
I		TOT	AL: 564.0 KVA			TOTAL:	564.0 KVA		1-1	/2"C	1-1	L/2"C	2"C	
WITH DEM/	AND FACTOR (PE				WITH DEMAND FACTOR (PE		225.6 KVA	175), 1#6G,	3#3/0	D, 1#4G,	3#4/0, 1#4G,	3-250, 1#3
		HOUSE PA			WITT DEMAND FACTOR (FE	(INEC 220.04) 40/0	223.0 KVA	-	1-1	/2"C		2"C	2"C	2"C
								200		3#3/0, 1#6G,		3#4/0, 1#4G,	3-250, 1#4G,	3-300, 1#3
		ТОТ	AL: 232.3 KVA					┥		2"C		2"C	2"C	2-1/2"(
		10	AL. 252.5 KVA			ΤΟΤΑ	L: 225.6 KVA	NOTE:						
			240.14				-	1. THIS TABLE SHAL	TAKE PRECEDE	NCE OVER ANY FEE	DERS LISTED IN PA	NEL SCHEDULES, F	RISERS AND/OR PL	ANS. VOLTAG
		VOLTAGE OF SERV				VOLTAGE OF SERVIC	E: 240 V	FUNCTION OF DI	STANCE, WHICH	IS DETERMINED BY	THE CONTRACTO	R'S ROUTING IN TH	IE FIELD DURING C	ONSTRUCTIO
		SERVICE PHA				SERVICE PHAS	E: 1 PH	2. CONSULT ENGIN	ER FOR FEEDERS	GREATER THAN 30	00' IN LENGTH.			
		TOTAL AMPAC	ITY: 967.8 A			TOTAL AMPACIT	Y: 939.9 A	3. CONDUIT SIZING	IS BASED ON "TH	HN", "THWN", "TH	IWN-2" TYPE CON	IDUCTORS IN EMT	CONDUIT.	
								4. CONDUCTOR SIZ	S BASED ON CO	PPER CONDUCTOR	S.			

DEMAN	ND LOADS	METER	CENTE	ER 'MC	CA'	DEMAN	D LOA	ADS: ME	ETER CE	ENTER 'M	1CB'	RESI	DENTIAL FEE	DER SIZING 1	TABLE, COPPE		OR
	NUMBER			TOTAL			NUMBER			TOTAL		SERVICE RATING			M	IAXIMUM DISTAN	ICE
	OF UNITS	UNIT KVA		KVA			OF UNITS	U	NIT KVA	KVA		(AMPS)	0 - 150'	151' - 175'	176' - 200'	201' - 225'	
2 BEDROOM UNIT	8	40.92		327.37		2 BEDROOM UNIT	8	1 1	40.92	327.37		100	3#3, 1#8G,	3#2, 1#6G,	3#1, 3	1#4G <i>,</i>	
1 BEDROOM UNIT	4	38.11		152.45		1 BEDROOM UNIT	4	l – – – – – – – – – – – – – – – – – – –	38.11	152.45			1"C	1-1/4"C	1-1/	/4"C	
3 BEDROOM UNIT	2	42.07		84.14		3 BEDROOM UNIT	2		42.07	84.14		110		1#6G <i>,</i> /4"C	3#1, 1#4G, 1-1/4"C	3#1/0	D, 1#3 L/2"C
												125	3#1,	1#6G,	3#1/0,	. 1#4G,	/2 0
														/4"C		/2"C	
TOTAL # OF UNITS	S 14					TOTAL # OF UNITS	14					150	-	, 1#6G,		, 1#4G,	3
			TOTAL:	564.0	KVA			' <u> </u>	TOT	AL: 564	.0 KVA	1		/2"C		/2"C	
WITH DE	MAND FACTOR (P	ER NEC 220.84)	40%	225.6	KVA	WITH DEM	AND FACT	FOR (PER NEC			.6 KVA	175	-), 1#6G, /2"C		, 1#4G,	3
		HOU	JSE PANEL	6.7	KVA			-		-		1	1-1,	/2"C	2'		+
												200		3#3/0, 1#6G,		3#4/0, 1#4G,	3
			TOTAL:	232.3	KVA				Т	OTAL: 225	.6 KVA	NOTE:		2"C		2"C	_
												1. THIS TABLE SHAI					
		VOLTAGE O	F SERVICE:	240	V		ſ	VOI	LTAGE OF SE	RVICE 24	10 V				THE CONTRACTOR	,	
		SERVI	CE PHASE:	1	PH				SERVICE P		1 PH	2. CONSULT ENGIN	•				
		TOTALA	MPACITY:	967.8	A		ŀ		TOTALAMP		.9 A	3. CONDUIT SIZING					CONF
							L					4. CONDUCTOR SIZ					JONE

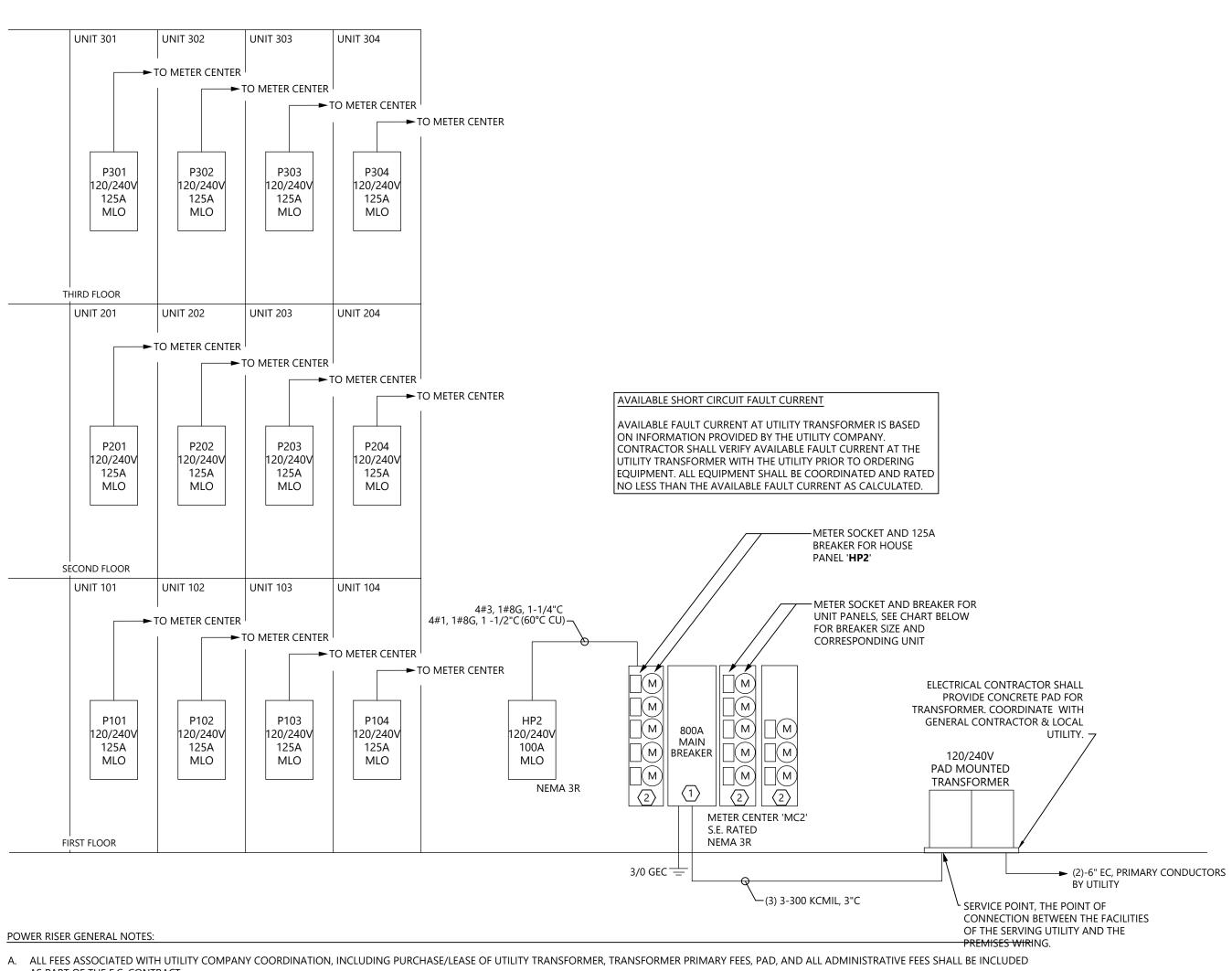
307 |THIRD 1 BDRM TYPE-A 100 2 BDRM TYPE-A 308 THIRD 125

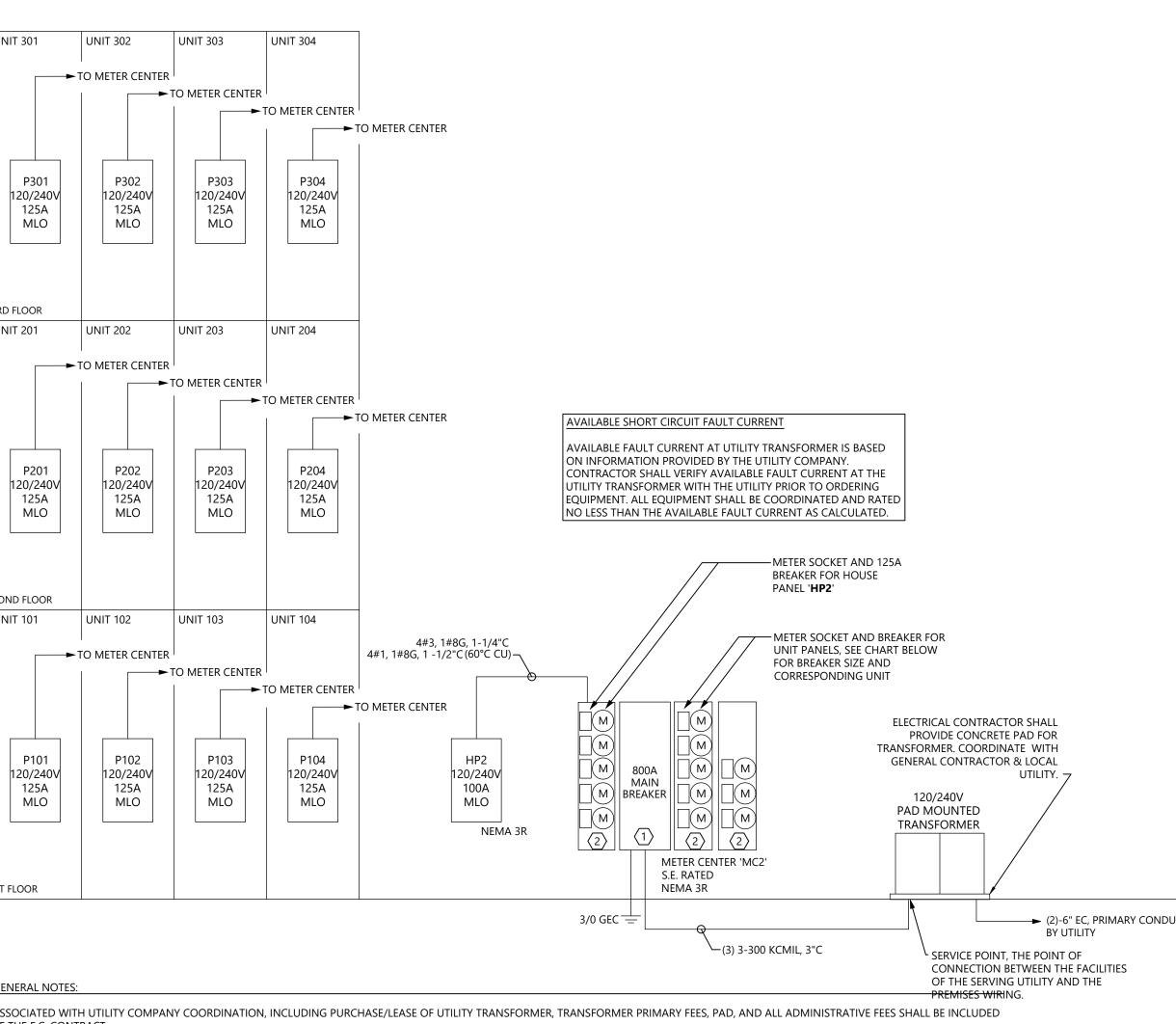
BUILDINGS 1 & 6 - METER CENTER								
UNIT #	FLOOR	UNIT TYPE	SERVICE SIZE (
B01	BASEMENT	2 BDRM TYPE-A	-					
B02	BASEMENT	1 BDRM	-					
101	FIRST	2 BDRM TYPE-A	-					
102	FIRST	3 BDRM ACCESSIBLE	-					
103	FIRST	2 BDRM TYPE-A	-					
104	FIRST	1 BDRM TYPE-A	-					
201	SECOND	2 BDRM TYPE-A	-					
202	SECOND	3 BDRM TYPE-A	-					
203	SECOND	2 BDRM TYPE-A	1					
204	SECOND	1 BDRM TYPE-A	1					
301	THIRD	2 BDRM TYPE-A	1					
302	THIRD	2 BDRM TYPE-A	1					
303	THIRD	2 BDRM TYPE-A	-					
304	THIRD	1 BDRM TYPE-A	-					

. CONDUCTOR SIZES BASED ON COPPER CONDUCTORS. . CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL LUG REQUIREMENTS FOR WIRE SIZE, COUNTS, AND TY

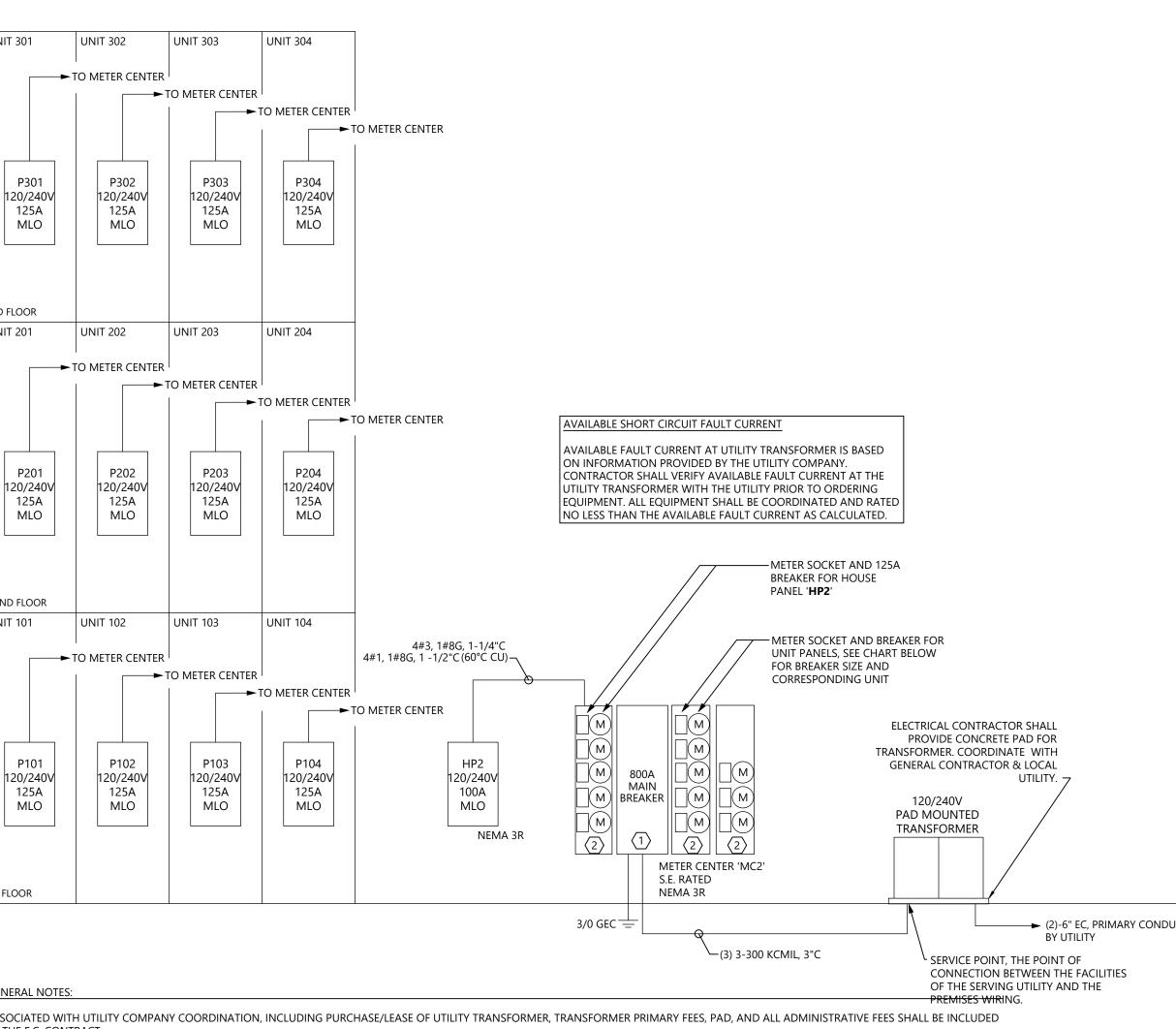
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				- PRELIMINARY - NOT FOR CONSTRUCTION
<u>RENT</u> ' TRANSFORMER JTILITY COMPAN E FAULT CURREN ITY PRIOR TO OR E COORDINATED	Y. T AT THE DERING			
R SOCKET AND 12 CURRENT AS CAL SER FOR HOUSE - ' HP1 ' (FOR ING 1) OR ' HP6 ' (ING 6) R SOCKET AND B	CULATED. 25A FOR			SIGNATURE: CLIENT:
PANELS, SEE CHA REAKER SIZE ANI ESPONDING UNI ELECTRICAL PROVID TRANSFORMEI	RT BELOW	२ न		The orchards at Naples Road, LLC 341 N main Street Hendersonville, NC 28792 Luis Graef: President
120/24 PAD MOL TRANSFO	UTILITY OV INTED			Orchards PROPERTIES
CO OF	(2 RVICE POINT, THE POI NNECTION BETWEEN THE SERVING UTILITY EMISES WIRING.	THE FACILITIES	 DNDUCTORS	Dies Road arolina
5 1 & 6 - METER	CENTER MCB SERVICE BREAKER	FEEDER SIZE		Vaple complet th Car
NIT TYPE M TYPE-A M TYPE-A M ACCESSIBLE M TYPE-A M TYPE-A M TYPE-A M TYPE-A M TYPE-A M TYPE-A M TYPE-A	SIZE (AMPS) 125 100 125 125 125 100 125 125 125 125 125 125 100	(COPPER)		The Orchards at Naples Apartment Complex Hendersonville, North Caroli
И ТҮРЕ-А И ТҮРЕ-А И ТҮРЕ-А И ТҮРЕ-А • (240V, 1-	125 125 125 100 PHASE, 3-WI	- - - RE)		# REVISIONS DATE
26' - 250'	251' - 275'	276' - 300'		
3#1/0, 1 1-1/2	"C	3#2/0, 1#3G, 1-1/2"C		
i, 3#2/0, 1	3#2/0, 1 1-1/2	1#2G,		
3#2/0, 1 1-1/2 3/0, 1#4G, 2"C 4/0, 1#4G,		2"C 1#3G,		DWG INFO :
4/0, 1#4G, 2"C 250, 1#4G, 2"C	3-250, 1#3G, 2"C 3-300, 1#3G, 2-1/2"C	3-300, 1#2G, 2-1/2"C 3-350, 1#2G, 2-1/2"C		DWG DECRIPTION :
AND/OR PLAN D DURING COM	IS. VOLTAGE DROF			POWER RISER DIAGRAM - BUILDINGS 1 & 6 SHEET #:
UIT. SIZE, COUNTS	, AND TYPE.			E-04





UNIT 101



POWER RISER GENERAL NOTES:

- AS PART OF THE E.C. CONTRACT.

- (##) KEYED NOTES:



B. RISER LAYOUT SHOWN IS DIAGRAMMATIC IN NATURE ONLY AND DOES NOT REPRESENT ACTUAL INSTALL LAYOUT. E.C. SHALL COORDINATE ALL EQUIPMENT LAYOUTS, CONDUIT/FEEDER ROUTINGS, ETC. LAYOUT SHOWN IN THIS RISER SHALL NOT REPRESENT THE ACTUAL INSTALL OF ANY EQUIPMENT SHOWN.

C. POWER RISER SHOWN TYPICAL FOR BUILDING 2

D. TABLES SHOWN ON THIS SHEET ARE TYPICAL FOR BUILDING 2

E. FEEDERS SHOWN BASED ON COPPER. ALUMINUM SHALL BE ACCEPTED BY ENGINEER WITH WRITTEN APPROVAL BY OWNER.

1. SERVICE ENTRANCE, NEMA 3R LISTED CIRCUIT BREAKER WITH INTEGRAL SURGE PROTECTION, 120/240V 1-PHASE, AMPERAGE AS SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO LIMIT THE MAXIMUM AVAILABLE FAULT DUTY FOR ALL 200A AND 400A SELF CONTAINED SERVICE TO A MAGNITUDE NOT EXCEEDING 22,000 AMPS (22 KA) SYMMETRICAL. VERIFICATION OF THE APPROPRIATE TIME CURRENT CHARACTERISTIC (TCC) CURVE SETTINGS SHALL BE PROVIDED. 2. NEMA 3R METER CENTER, 225A MAXIMUM CB, 120/240V 1-PHASE. COORDINATE WITH UTILITY PRIOR TO ORDERING NUMBER OF METER SOCKETS AS SHOWN. COORDINATE SIZE OF METER UNITS AND BREAKER

POWER RISER DIAGRAM - BUILDING 2 (12-UNIT BLDG)

BUILDING 2 - METER CENTER MC 2						
			SERVICE BREAKER	FEEDER SIZE		
UNIT #	FLOOR	UNIT TYPE	SIZE (AMPS)	(COPPER)		
101	FIRST	2 BDRM ACCESSIBLE	125			
102	FIRST	2 BDRM ACCESSIBLE	125			
103	FIRST	2 BDRM TYPE-A	125			
104	FIRST	2 BDRM TYPE-A	125			
201	SECOND	2 BDRM	125			
202	SECOND	2 BDRM	125	SEE FEEDER		
203	SECOND	2 BDRM	125	TABLE		
204	SECOND	2 BDRM	125			
301	THIRD	2 BDRM	125			
302	THIRD	2 BDRM	125			
303	THIRD	2 BDRM	125			
304	THIRD	2 BDRM	125			

DEMAND LOADS: METER CENTER 'MC2'								
NUMBER UNIT KVA OF UNITS								
2 BEDROOM UNIT	12		40.92		491.05			
TOTAL # OF UNITS	12							
				TOTAL:	491.1	KVA		
WITH DEN	/AND FACT	OR (PER N	EC 220.84)	41%	201.3	KVA		
			PA	NEL 'HP2':	6.4	KVA		
				TOTAL:	207.7	KVA		
	_							
	[V	OLTAGE OF	SERVICE:	240	V		
	[SERVI	CE PHASE:	1	PH		
			TOTAL A	MPACITY:	865.5	Α		

RESIDENTIAL FEEDER SIZING TABLE, COPPER CONDUCTORS (240V, 1-PHASE, 3-WIRE)

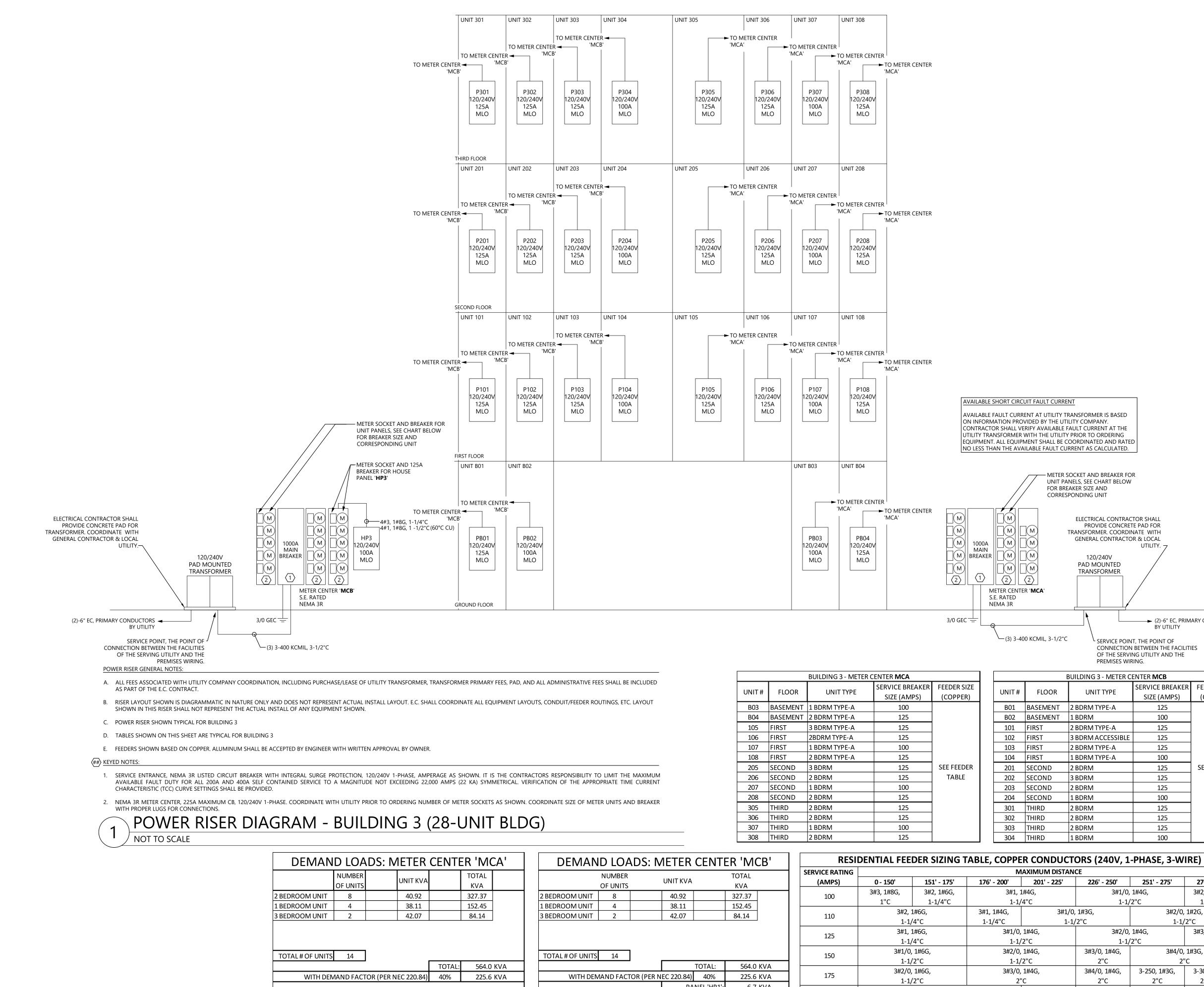
SERVICE RATING			N	AXIMUM DISTAN	CE		
(AMPS)	0 - 150'	151' - 175'	176' - 200'	201' - 225'	226' - 250'	251' - 275'	276' - 300'
100	3#3, 1#8G, 3#2, 1#6G,		3#1, 1#4G,		3#1/0, 1#4G,		3#2/0, 1#3G,
100	1"C	1-1/4"C	1-1/	′4"C	1-1/	/2"C	1-1/2"C
110	3#2, 1#6G,		3#1, 1#4G,	3#1/0,	, 1#3G <i>,</i>	1#3G, 3#2/0,	
110	1-1/4"C		1-1/4"C	1/4"C 1-1/2"C		2"C 1-1/	
125	3#1, 1#6G,		3#1/0, 1#4G,		3#2/0, 1#4G,		3#3/0, 1#3G,
125	1-1/4"C		1-1/2"C		1-1/2"C		2"C
150	3#1/0, 1#6G,		3#2/0, 1#4G,		3#3/0, 1#4G,	3#4/0,	, 1#3G <i>,</i>
130	1-1/2"C		1-1/2"C		2"C 2"		'C
175	3#2/0,	, 1#6G,	3#3/0,	1#4G,	3#4/0, 1#4G,	3-250, 1#3G,	3-300, 1#2G,
1/3	1-1/2"C		2'	'C	2"C	2"C	2-1/2"C
200		3#3/0, 1#6G,		3#4/0, 1#4G,	3-250, 1#4G,	3-300, 1#3G,	3-350, 1#2G,
200		2"C		2"C	2"C	2-1/2"C	2-1/2"C
NOTE:							

1. THIS TABLE SHALL TAKE PRECEDENCE OVER ANY FEEDERS LISTED IN PANEL SCHEDULES, RISERS AND/OR PLANS. VOLTAGE DROP IS A FUNCTION OF DISTANCE, WHICH IS DETERMINED BY THE CONTRACTOR'S ROUTING IN THE FIELD DURING CONSTRUCTION. 2. CONSULT ENGINEER FOR FEEDERS GREATER THAN 300' IN LENGTH.

3. CONDUIT SIZING IS BASED ON "THHN", "THWN", "THWN-2" TYPE CONDUCTORS IN EMT CONDUIT.

4. CONDUCTOR SIZES BASED ON COPPER CONDUCTORS. 5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL LUG REQUIREMENTS FOR WIRE SIZE, COUNTS, AND TYPE.

	Wilde Milde Muilde Muttersville, NC (704) 439-7038 NC Firm License No. P-1	PLUMBING
	- PRELIMINAR NOT FOR CONSTRU	
	SIGNATURE:	
341 Her	CLIENT: e orchards at Naples ndersonville, NC 287 a Graef: President PROJECT: PRO	
#	REVISIONS	DATE
	DWG INFO :	
	DWG DECRIPTION POWER RISER DIAG BUILDING 2	
	SHEET #:	5



TOTAL:	225.
VOLTAGE OF SERVICE:	24
SERVICE PHASE:	
TOTAL AMPACITY:	939.

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-				
			UNIT KVA	TOTAL
		OF UNITS	1	KVA
	2 BEDROOM UNIT	8	40.92	327.37
	1 BEDROOM UNIT	4	38.11	152.45
	3 BEDROOM UNIT	2	42.07	84.14
	TOTAL # OF UNITS	14		
0 KVA			TOTAL:	564.0 KVA
6 KVA	WITH DEM/	AND FACTOR (PER N	EC 220.84) 40%	225.6 KVA
			PANEL 'HP1'	6.7 KVA
6 KVA			TOTAL	232.3 KVA
				-
0 V		V	OLTAGE OF SERVICE	240 V
1 PH			SERVICE PHASE	1 PH
9 A			TOTAL AMPACITY	967.8 A

100 3#3, 1#8G, 1"C 3# 1"C 110 3#2, 1#6G, 1-1/4"C	51' - 175' #2, 1#6G, 1-1/4"C		201' - 225' 1#4G, /4"C		251' - 275' , 1#4G,	276' - 300' 3#2/0_1#3G	
100 1"C 1 110 3#2, 1#6G, 1-1/4"C		1-1/	•		1#4G,	3#2/0, 1#3G,	
1"C 1 110 3#2, 1#6G, 1-1/4"C	1-1/4"C		/4"C			1 3 12 0, 100, 100, 100, 100, 100, 100, 100	
110 1-1/4"C		3#1 1#46		1-1/	/2"C	1-1/2"C	
1-1/4"C		J#1, 1#40,	3#1, 1#4G, 3#1/0,		3#2/0	2/0, 1#2G,	
2#1_1#CC		1-1/4"C	1-1,	/2"C	1-1,	/2"C	
125	3#1, 1#6G,		3#1/0, 1#4G,		3#2/0, 1#4G,		
125 1-1/4"C	1-1/4"C		1-1/2"C		1-1/2"C		
150 3#1/0, 1#6 G,	3#1/0, 1#6G,		3#2/0, 1#4G,		3#3/0, 1#4G, 3#4/0,		
1-1/2"C	1-1/2"C		1-1/2"C		2'	"C	
175 3#2/0, 1#6G,	,	3#3/0,	1#4G,	3#4/0, 1#4G,	3-250, 1#3G,	3-300, 1#2G,	
1-1/2"C		2'	'C	2"C	2"C	2-1/2"C	
200 3#3	3/0, 1#6G,		3#4/0, 1#4G,	3-250, 1#4G,	3-300, 1#3G,	3-350, 1#2G,	
200	2"C		2"C	2"C	2-1/2"C	2-1/2"C	
NOTE:							
1. THIS TABLE SHALL TAKE PRECEDENCE OV	ER ANY FEE	DERS LISTED IN PAI	NEL SCHEDULES, R	SERS AND/OR PLA	NS. VOLTAGE DR	OP IS A	

FUNCTION OF DISTANCE, WHICH IS DETERMINED BY THE CONTRACTOR'S ROUTING IN THE FIELD DURING CONSTRUCTION.

2. CONSULT ENGINEER FOR FEEDERS GREATER THAN 300' IN LENGTH. 3. CONDUIT SIZING IS BASED ON "THHN", "THWN", "THWN-2" TYPE CONDUCTORS IN EMT CONDUIT.

4. CONDUCTOR SIZES BASED ON COPPER CONDUCTORS.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL LUG REQUIREMENTS FOR WIRE SIZE, COUNTS, AND TYPE.

				500	THIND
CA'	DEMAND LO	ADS: WEIER	CENTE	R IVICB	
	NUMBE OF UNIT	UNIT KVA		TOTAL KVA	
	2 BEDROOM UNIT 8	40.92		327.37	
	1 BEDROOM UNIT 4	38.11		152.45	
	3 BEDROOM UNIT 2	42.07		84.14	
0 KVA	TOTAL # OF UNITS 14]	TOTAL:	564.0 KVA	
6 KVA	WITH DEMAND FAG	CTOR (PER NEC 220.84)	40%	225.6 KVA	4
		PA	NEL 'HP1':	6.7 KV/	4
6 KVA			TOTAL:	232.3 KVA	4
.0 V		VOLTAGE O	F SERVICE:	240 V	
1 PH		SERV	CE PHASE:	1 PH	
9 A		TOTAL	AMPACITY:	967.8 A	

		BUILDING 3 - METER C	ENTER MCA	
	FLOOD		SERVICE BREAKER	FEEDER SIZE
UNIT #	FLOOR	UNIT TYPE	SIZE (AMPS)	(COPPER)
B03	BASEMENT	1 BDRM TYPE-A	100	
B04	BASEMENT	2 BDRM TYPE-A	125	
105	FIRST	3 BDRM TYPE-A	125	
106	FIRST	2BDRM TYPE-A	125	
107	FIRST	1 BDRM TYPE-A	100	
108	FIRST	2 BDRM TYPE-A	125	
205	SECOND	3 BDRM	125	SEE FEEDER
206	SECOND	2 BDRM	125	TABLE
207	SECOND	1 BDRM	100	
208	SECOND	2 BDRM	125	
305	THIRD	2 BDRM	125	
306	THIRD	2 BDRM	125	
307	THIRD	1 BDRM	100	
308	THIRD	2 BDRM	125	

			PREMISES WIR	ING.	
		E	BUILDING 3 - METER CI	ENTER MCB	
	UNIT #	FLOOR	UNIT TYPE	SERVICE BREAKER SIZE (AMPS)	FEEDER SIZE (COPPER)
	B01	BASEMENT	2 BDRM TYPE-A	125	
	B02	BASEMENT	1 BDRM	100	
	101	FIRST	2 BDRM TYPE-A	125	
	102	FIRST	3 BDRM ACCESSIBLE	125	
	103	FIRST	2 BDRM TYPE-A	125	
	104	FIRST	1 BDRM TYPE-A	100	
	201	SECOND	2 BDRM	125	SEE FEEDER
	202	SECOND	3 BDRM	125	TABLE
	203	SECOND	2 BDRM	125	
	204	SECOND	1 BDRM	100	
	301	THIRD	2 BDRM	125	
	302	THIRD	2 BDRM	125	
	303	THIRD	2 BDRM	125	
	304	THIRD	1 BDRM	100	

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- PRELIMINARY - NOT FOR CONSTRUCTION
SIGNATURE: CLIENT: The orchards at Naples Road, LLC 341 N main Street Hendersonville, NC 28792 Luis Graef: President
Orchards at Naples Road Apartment Complex Jendersonville, North Carolina
The Orchards at Naples BEAD Apartment Complex Hendersonville, North Carolín
DWG INFO : DWG INFO : DWG DECRIPTION : POWER RISER DIAGRAM - BUILDING 3
E-06

WILDE #: 24-125

– METER SOCKET AND BREAKER FOR UNIT PANELS, SEE CHART BELOW

> ELECTRICAL CONTRACTOR SHALL PROVIDE CONCRETE PAD FOR TRANSFORMER. COORDINATE WITH GENERAL CONTRACTOR & LOCAL UTILITY.

120/240V PAD MOUNTED TRANSFORMER

FOR BREAKER SIZE AND CORRESPONDING UNIT

→ (2)-6" EC, PRIMARY CONDUCTORS BY UTILITY

¹ SERVICE POINT, THE POINT OF CONNECTION BETWEEN THE FACILITIES OF THE SERVING UTILITY AND THE

WITH PROPER LUGS FOR CONNECTIONS. POWER RISER DIAGRAM - BUILDING 4 (14-UNIT BLDG) NOT TO SCALE

CHARACTERISTIC (TCC) CURVE SETTINGS SHALL BE PROVIDED. 2. NEMA 3R METER CENTER, 225A MAXIMUM CB, 120/240V 1-PHASE. COORDINATE WITH UTILITY PRIOR TO ORDERING NUMBER OF METER SOCKETS AS SHOWN. COORDINATE SIZE OF METER UNITS AND BREAKER

E. FEEDERS SHOWN BASED ON COPPER. ALUMINUM SHALL BE ACCEPTED BY ENGINEER WITH WRITTEN APPROVAL BY OWNER. (##) KEYED NOTES: 1. SERVICE ENTRANCE, NEMA 3R LISTED CIRCUIT BREAKER WITH INTEGRAL SURGE PROTECTION, 120/240V 1-PHASE, AMPERAGE AS SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO LIMIT THE MAXIMUM AVAILABLE FAULT DUTY FOR ALL 200A AND 400A SELF CONTAINED SERVICE TO A MAGNITUDE NOT EXCEEDING 22,000 AMPS (22 KA) SYMMETRICAL. VERIFICATION OF THE APPROPRIATE TIME CURRENT

POWER RISER GENERAL NOTES:

UNIT 301

P301

120/240V 125A

MLO

THIRD FLOOR UNIT 201

P201 120/240V 125A

MLO

SECOND FLOOR

UNIT 101

P101

120/240V 125A

MLO

FIRST FLOOR

BASEMENT

UNIT 302

TO METER CENTER

P302

120/240V 125A

MLO

UNIT 202

P202

120/240V

125A

MLO

UNIT 102

TO METER CENTER

P102

120/240V 125A

MLO

TO METER CENTER

UNIT 303

──► TO METER CENTER [|]

P303

120/240V

125A

MLO

UNIT 203

P203

120/240V

125A

MLO

UNIT 103

P103

120/240V

125A

MLO

UNIT B01

PB01

120/240V

125A

MLO

- D. TABLES SHOWN ON THIS SHEET ARE TYPICAL FOR BUILDING 4

- C. POWER RISER SHOWN TYPICAL FOR BUILDING 4
- SHOWN IN THIS RISER SHALL NOT REPRESENT THE ACTUAL INSTALL OF ANY EQUIPMENT SHOWN.

- AS PART OF THE E.C. CONTRACT.

DEMAN	d loa	DS: N	1ETER	CENTI	ER 'MO	24'
	NUMBER OF UNITS		UNIT KVA		TOTAL KVA	
2 BEDROOM UNIT	14		40.92		572.89	
TOTAL # OF UNITS	14					
				TOTAL:	572.9	KVA
WITH DEM	1AND FACT	OR (PER N	EC 220.84)	40%	229.2	KVA
			PA	NEL 'HP4':	6.4	KVA
				TOTAL:	235.6	KVA
		V	OLTAGE OF	SERVICE:	240	V
			SERVI	CE PHASE:	1	PH
			TOTAL A	MPACITY:	981.5	Α

RESI	DENTIAL FEE	DER SIZING T	ABLE, COPPE		ORS (240V, 1	-PHASE, 3-W	IRE)	
CE RATING			Μ	AXIMUM DISTAN	CE			
MPS)	0 - 150'	151' - 175'	176' - 200'	201' - 225'	226' - 250'	251' - 275'	276' - 300'	
100	3#3, 1#8G,	3#2, 1#6G,	3#1, 1	1#4G,	3#1/0,	1#4G,	3#2/0, 1#3G,	
100	1"C 1-1/4"C 1-			′4"C	1-1/	′2"C	1-1/2"C	
110	3#2, 3	1#6G <i>,</i>	3#1, 1#4G,	3#1, 1#4G, 3#1/0, 1#3		3#2/0,	0, 1#2G,	
110	1-1/	′4"C	1-1/4"C	1-1/	′2"C 1-1		′2"C	
125	3#1, 1#6G,		3#1/0,	1#4G,	3#2/0, 1#4G,		3#3/0, 1#3G,	
125	1-1/	′4"C	1-1/	′2"C	1-1/	2"C		
150	3#1/0,	1#6G,	3#2/0, 1#4G,		3#3/0, 1#4G,	3#4/0,	1#3G,	
120	1-1/	′2"C	1-1/2"C		2"C	2"C		
175	3#2/0, 1#6G		3#3/0,	3#3/0, 1#4G,		3-250, 1#3G,	3-300, 1#2G,	
1/2	1-1/	/2"C	2"C		2"C	2"C	2-1/2"C	
200		3#3/0, 1#6G,		3#4/0, 1#4G,	3-250, 1#4G,	3-300, 1#3G,	3-350, 1#2G,	
200		2"C		2"C	2"C	2-1/2"C	2-1/2"C	

RESII	DENTIAL FEE	DER SIZING T	ABLE, COPPE		ORS (240V, 1	-PHASE, 3-W	IRE)	
SERVICE RATING			N	IAXIMUM DISTAN	CE			
(AMPS)	0 - 150'	151' - 175'	176' - 200'	201' - 225'	226' - 250'	251' - 275'	276' - 300'	
100	3#3, 1#8G,	3#2, 1#6G,	3#1, 1	1#4G,	3#1/0,	1#4G,	3#2/0, 1#3G,	
100	1"C	1-1/4"C	1-1,	L/4"C 1-1/2		/2"C	1-1/2"C	
110	3#2, 1#6G,		3#1, 1#4G, 3#1/0, 1		1#3G,	3#2/0,	0, 1#2G,	
110	1-1/	/4"C	1-1/4"C	1-1/	2"C 1-1		/2"C	
125	3#1, 1	1#6G <i>,</i>	3#1/0, 1#4G,		3#2/0, 1#4G,		3#3/0, 1#3G,	
125	1-1/	/4"C	1-1,	/2"C	1-1/	2"C		
150	3#1/0, 1#6G,		3#2/0, 1#4G,		3#3/0, 1#4G,	3#4/0,	1#3G,	
150	1-1/2"C		1-1/2"C		2"C	2"C		
175	3#2/0, 1#6G,		3#3/0, 1#4G,		3#4/0, 1#4G,	3-250, 1#3G,	3-300, 1#2G,	
1/5	1-1/2"C		2'	"C	2"C	2"C	2-1/2"C	
200		3#3/0, 1#6G,		3#4/0, 1#4G,	3-250, 1#4G,	3-300, 1#3G,	3-350, 1#2G,	
200		2"C		2"C	2"C	2-1/2"C	2-1/2"C	
NOTE:								

UNIT #

FLOOR

B01 BASEMENT BO2 BASEMENT

101 FIRST

102 FIRST

103 FIRST

104 FIRST 201 SECOND

202 SECOND

203 SECOND

204 SECOND

301 THIRD 302 THIRD

303 THIRD 304 THIRD

1. THIS TABLE SHALL TAKE PRECEDENCE OVER ANY FEEDERS LISTED IN PANEL SCHEDULES, RISERS AND/OR PLANS. VOLTAGE DROP IS A FUNCTION OF DISTANCE, WHICH IS DETERMINED BY THE CONTRACTOR'S ROUTING IN THE FIELD DURING CONSTRUCTION.

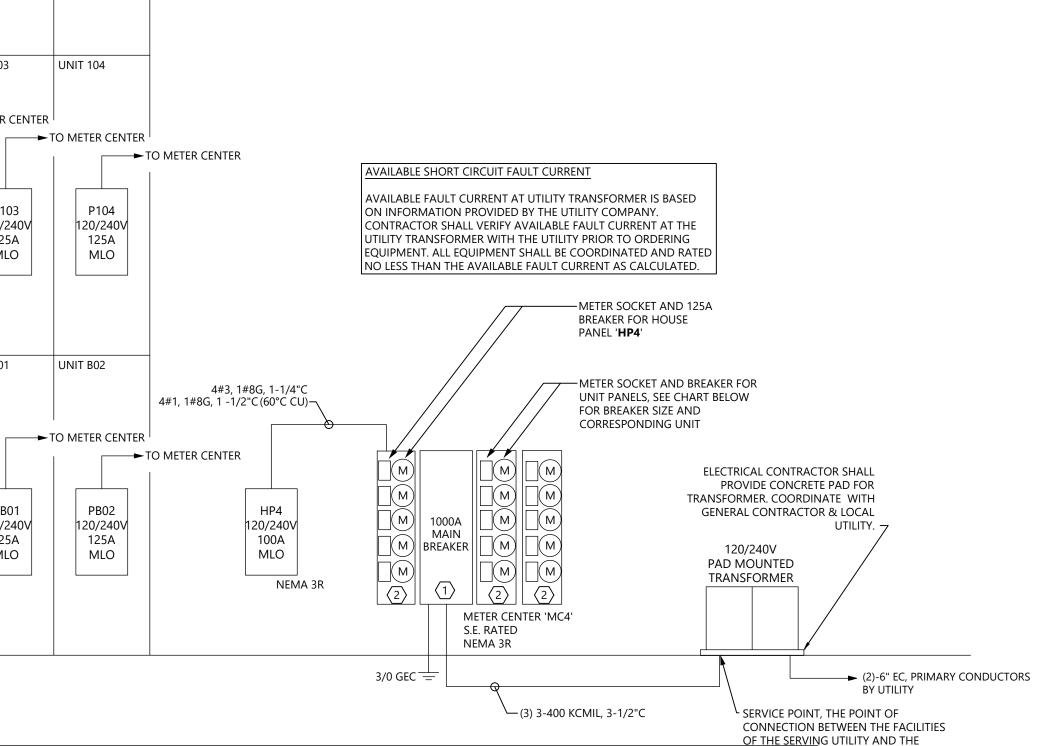
2. CONSULT ENGINEER FOR FEEDERS GREATER THAN 300' IN LENGTH.

3. CONDUIT SIZING IS BASED ON "THHN", "THWN", "THWN-2" TYPE CONDUCTORS IN EMT CONDUIT.

4. CONDUCTOR SIZES BASED ON COPPER CONDUCTORS.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL LUG REQUIREMENTS FOR WIRE SIZE, COUNTS, AND TYPE.

PREMISES WIRING. A. ALL FEES ASSOCIATED WITH UTILITY COMPANY COORDINATION, INCLUDING PURCHASE/LEASE OF UTILITY TRANSFORMER, TRANSFORMER PRIMARY FEES, PAD, AND ALL ADMINISTRATIVE FEES SHALL BE INCLUDED B. RISER LAYOUT SHOWN IS DIAGRAMMATIC IN NATURE ONLY AND DOES NOT REPRESENT ACTUAL INSTALL LAYOUT. E.C. SHALL COORDINATE ALL EQUIPMENT LAYOUTS, CONDUIT/FEEDER ROUTINGS, ETC. LAYOUT



TO METER CENTER → TO METER CENTER

UNIT 204

P204

120/240V

125A

MLO

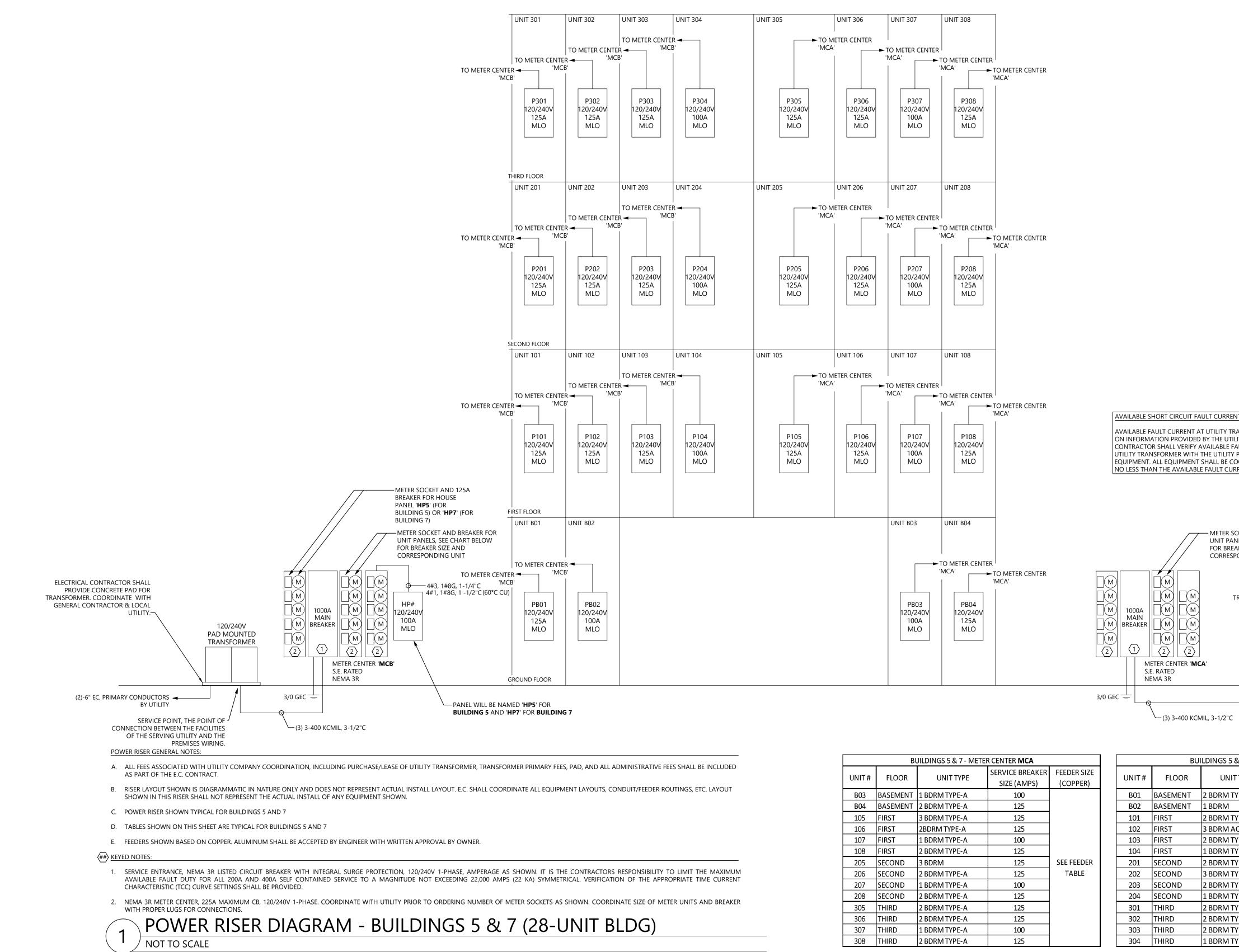
P304 120/240V 125A MLO

► TO METER CENTER → TO METER CENTER

UNIT 304

JILDING 4 - METER CI	ENTER MC4	
UNIT TYPE	SERVICE BREAKER	FEEDER SIZE
UNIT TYPE	SIZE (AMPS)	(COPPER)
BDRM	125	
BDRM	125	
BDRM ACCESSIBLE	125	
BDRM TYPE-A	125	
BDRM TYPE-A	125	
BDRM TYPE-A	125	
BDRM	125	SEE FEEDER
BDRM	125	TABLE
BDRM	125	

	Wilde Meinart Barden Mechanical, electrical & 15822 Kelly Park Ci Huntersville, NC (704) 439-7038 NC Firm License No. P-	PLUMBING
	- PRELIMINAR NOT FOR CONSTRU	
	SIGNATURE:	
341 Hen	CLIENT: orchards at Naples Main Street dersonville, NC 287 Graef: President PROJECT: PROJECT: PROJECT: PROJECT: REVISIONS	
#	REVISIONS	DATE
	DWG INFO :	
	DWG DECRIPTION OWER RISER DIAG UILDING 4	
	SHEET #:	7



									_							
DEMAN		DS: METER			Δ'	DEMAN			FR CENT	FR 'MCB'	RESI	DENTIAL FEE	DER SIZING 1	TABLE, COPPI		ORS (24
DEMAND LOADS: METER CENTER 'MCA'				DEMAND LOADS: METER CENTER 'MCB'			SERVICE RATING	MAXIMUM DISTANCE				CE				
	NUMBER OF UNITS	UNIT KV	4	TOTAL KVA			NUMBER OF UNITS	UNIT	KVA	TOTAL KVA	(AMPS)	0 - 150'	151' - 175'	176' - 200'	201' - 225'	226' - 2
2 BEDROOM UNIT		40.92		327.37							100	3#3, 1#8G,	3#2, 1#6G,	3#1,	1#4G,	
	0	38.11		152.45		2 BEDROOM UNIT	8	40.9		327.37	100	1"C	1-1/4"C	1-1,	/4"C	
1 BEDROOM UNIT	4	42.07				1 BEDROOM UNIT	4	38.1		152.45	110	3#2,	1#6G <i>,</i>	3#1, 1#4G,	3#1/0	, 1#3G,
3 BEDROOM UNIT	2	42.07		84.14		3 BEDROOM UNIT	2	42.0	J/	84.14	110	1-1,	/4"C	1-1/4"C	1-1/	/2"C
											125	3#1,	1#6G <i>,</i>	3#1/0), 1#4G,	
											125	1-1,	/4"C	1-1,	/2"C	
	14							1			150	3#1/0	, 1#6G <i>,</i>	3#2/0), 1#4G,	3#3/0, 1
TOTAL # OF UNITS	5 14		TOTAL	564.0	<i></i>	TOTAL # OF UNITS	5 14	l				1-1,	/2"C	1-1,	/2"C	2"C
			TOTAL:	564.0					TOTAL:	564.0 KVA	175	3#2/0	, 1#6G <i>,</i>	3#3/0), 1#4G,	3#4/0, 1
WITH DEI	VIANDFACI	OR (PER NEC 220.84	40%	225.6	(VA	WITH DEN	/AND FACT	FOR (PER NEC 220	,	225.6 KVA	-	1-1,	/2"C	2	."C	2"C
									HOUSE PANEL:	6.7 KVA	200		3#3/0, 1#6G,		3#4/0, 1#4G,	3-250, 1‡
											200		2"C		2"C	2"C
			TOTAL:	225.6	(VA				TOTAL:	232.3 KVA	NOTE:					
											1. THIS TABLE SHAI	L TAKE PRECEDEN	ICE OVER ANY FEE	DERS LISTED IN PA	NEL SCHEDULES, RI	ISERS AND/
		VOLTAGE	OF SERVICE:	240	/			VOLTAG	GE OF SERVICE:	240 V	FUNCTION OF D	ISTANCE, WHICH	S DETERMINED BY	THE CONTRACTOR	R'S ROUTING IN THI	E FIELD DUR
		SERV	/ICE PHASE:	1	РΗ			S	ERVICE PHASE:	1 PH	2. CONSULT ENGIN	EER FOR FEEDERS	GREATER THAN 30	00' IN LENGTH.		
		TOTAL	AMPACITY:	939.9	4			TOT	AL AMPACITY:	967.8 A	3. CONDUIT SIZING	IS BASED ON "TH	HN", "THWN", "TH	IWN-2" TYPE CONI	DUCTORS IN EMT C	CONDUIT.
							•				4. CONDUCTOR SIZ	ES BASED ON CO	PER CONDUCTOR	S.		
						·										

BUILDINGS 5 & 7 - METER CENTER MCA							
UNIT#	FLOOR	FLOOR UNIT TYPE		FEEDER SIZE			
01111 #	FLOOR	ONTITIFL	SIZE (AMPS)	(COPPER)			
B03	BASEMENT	1 BDRM TYPE-A	100				
B04	BASEMENT	2 BDRM TYPE-A	125				
105	FIRST	3 BDRM TYPE-A	125				
106	FIRST	2BDRM TYPE-A	125				
107	FIRST	1 BDRM TYPE-A	100				
108	FIRST	2 BDRM TYPE-A	125				
205	SECOND	3 BDRM	125	SEE FEEDER			
206	SECOND	2 BDRM TYPE-A	125	TABLE			
207	SECOND	1 BDRM TYPE-A	100				
208	SECOND	2 BDRM TYPE-A	125				
305	THIRD	2 BDRM TYPE-A	125				
306	THIRD	2 BDRM TYPE-A	125				
307	THIRD	1 BDRM TYPE-A	100				
308	THIRD	2 BDRM TYPE-A	125				

	BUI	LDINGS 5 &
UNIT #	FLOOR	UNIT
B01	BASEMENT	2 BDRM TY
B02	BASEMENT	1 BDRM
101	FIRST	2 BDRM TY
102	FIRST	3 BDRM AC
103	FIRST	2 BDRM TY
104	FIRST	1 BDRM TY
201	SECOND	2 BDRM TY
202	SECOND	3 BDRM TY
203	SECOND	2 BDRM TY
204	SECOND	1 BDRM TY
301	THIRD	2 BDRM TY
302	THIRD	2 BDRM TY
303	THIRD	2 BDRM TY
304	THIRD	1 BDRM TY

5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL LUG REQUIREMENTS FOR WIRE SIZE, COUNTS, AND TYPE.

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	MINARY - DNSTRUCTION
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 METE SOCKT AND BREAKER FOR UNIT PARES SEE CHART BELOW FOR BREAKER SIZE AND CORRESPONDING UNIT The orchards at 341 N main Stre Hendersonville, Luis Grant Press LECTRICAL CONTRACTOR SHALL PROVIDE CONCRETE PAD FOR TRANSFORMER CORRESPONDINTED The orchards at 341 N main Stre Hendersonville, Luis Grant Press PAD MOUNTED TRANSFORMER CONVECTION ETWENT THE FACILITIES OF THE SERVICE DRIATE WITH GENERAL CONTRACTOR & LOCAL UNITITY PRO PI PRO PI PRO PI PRO MOUNTED TRANSFORMER CA (2)-6" EC, PRIMARY CONDUCTORS BY UTILITY PRO PI PRO PI	ATURE:
PAD MOUNTED TRANSFORMER CA (2)-6" EC, PRIMARY CONDUCTORS BY UTILITY MIL, 3-1/2"C SERVICE POINT, THE POINT OF CONNECTION BETWEEN THE FACILITIES OF THE SERVING UTILITY AND THE PREMISES WIRING. MILDINGS 5 & 7 - METER CENTER MCB UNIT TYPE SIZE (AMPS) (COPPER) 2 BDRM TYPE-A 125 1 BDRM 100 2 BDRM TYPE-A 125 3 BDRM TYP	et NC 28792
I BDRM TYPE-A 100 2 BDRM TYPE-A 125 3 BDRM TYPE-A 125 2 BDRM TYPE-A 125	JECT:
2 BDRM TYPE-A 125	Apartment Complex Tendersonville, North Carolina
2 BDRM TYPE-A 125 2 BDRM TYPE-A 125 2 BDRM TYPE-A 125 1 BDRM TYPE-A 100 CTORS (240V, 1-PHASE, 3-WIRE) ANCE	NS DATE
226' - 250' 251' - 275' 276' - 300' 3#1/0, 1#4G, 3#2/0, 1#3G, 3#2/0, 1#3G, 1-1/2"C 1-1/2"C 3#2/0, 1#3G, 3#2/0, 1#2G, 1-1/2"C 1-1/2"C 3#2/0, 1#4G, 3#3/0, 1#3G, 1-1/2"C 2"C 3#3/0, 1#4G, 3#4/0, 1#3G, 2"C 2"C 3#4/0, 1#4G, 3-250, 1#3G, 2"C 2"C 3#4/0, 1#4G, 3-250, 1#3G, 2"C 2"C 3#4/0, 1#4G, 3-250, 1#3G, 2"C 2"C	
2"C 2"C 2-1/2"C 3-250, 1#4G, 3-300, 1#3G, 3-350, 1#2G, 2"C 2-1/2"C 2-1/2"C POWER RISE BUILDINGS 5 T CONDUIT. OR WIRE SIZE, COUNTS, AND TYPE.	INFO :

NEW PANEL: HP1 & HP6 (NOTE #9)	NEW PANEL: HP2	NEV
VOLTAGE: 120/240 MOUNTING: SURFACE PHASE / WIRE: 1φ/3W 1 </td <td>VOLTAGE: 120/240 MOUNTING: SURFACE PHASE / WIRE: 1φ/3W 1φ/3W 1000000000000000000000000000000000000</td> <td>VOLTAGE: 12 PHASE / WIRE: 10</td>	VOLTAGE: 120/240 MOUNTING: SURFACE PHASE / WIRE: 1φ/3W 1φ/3W 1000000000000000000000000000000000000	VOLTAGE: 12 PHASE / WIRE: 10
AMPS: 100 MAIN: LUGS ONLY AIC: 22,000 100	AMPS: 100 MAIN: LUGS ONLY AIC: 22,000 100	AMPS: 10 AIC: 2
LOAD NR [±] PRIP LOAD NAME CL [*] LOAD LOAD NAME LOAD LOAD KVA NR [±] 1 ^{RIP} LOAD NAME CL [*] L1 L2 CL [*] LOAD NAME 1 ^{RIP} NI ^{RE} LOAD	LOAD NPE RP LOAD NAME LOA LOAD KVA NPE RP LOAD L1 L2 L ¹ L0AD NAME RP NPE L0AE	LOAD KVA W ^{IRE} (R ^{IR} LOAD NAME
0.90 12 20 REC - GENERAL 1 - 2 LIGHTING - EXTERIOR 20 8 0.50 0.72 10 20 REC - GENERAL 3 - 4 4 FACP (NOTE #3) 20 10 1.00 108 8 20 REC - GENERAL 5 - 6 IRRIGATION CONTROLS 20 10 1.00 108 6 20 REC - GENERAL 7 - 8 RIE ALARM BELL (NOTE #8) 20 10 0.50 108 6 20 REC - GENERAL 9 - 10 LIGHTING CONTACTOR LC1 20 10 0.50 100 12 20 TECCOM CABINET 11 11 14 ECUH-1 20 10 1.00 100 8 20 DENE BACKLOW (NOTE #10) 15 - 16 SPARE 20 SPARE 20 SPARE 20 SPARE 20 SPARE 20 SPACE ONLY 22 <td>0.54 12 20 REC - GENERAL 1 2 EXTERIOR LIGHTING 20 8 0.50 1.06 10 20 REC - GENERAL 3 4 4 FACP (NOTE #8) 20 10 100 1.00 12 20 TELECOM CABNET 5 6 RRIGATION CONTROLS 20 10 100 20 SPARE 9 10 LIGHTING CONTROLS 20 10 100 20 SPARE 9 10 LIGHTING CONTACTOR LC1 20 12 0.10 20 SPARE 11 12 ECUH-1 20 10 1.00 20 SPARE 15 16 SPARE 20 10 1.00 20 SPARE 17 18 SPARE CONLY 10 1.00 20 SPARE 17 18 SPARE CONLY 20 SPARE CONLY 20 SPARE 20 1.00 1.00 1.00 1.00 1.00<td>0.90 12 20 REC - GENERAL 0.72 10 20 REC - GENERAL 1.08 8 20 REC - GENERAL 1.08 6 20 REC - GENERAL 1.08 6 20 REC - GENERAL 1.08 6 20 REC - GENERAL 1.00 12 20 TELECOM CABINET 20 SPARE 20 SPARE 20 SPARE 20 SPACE ONLY SPACE ONLY SPACE ONLY SPACE ONLY</td></td>	0.54 12 20 REC - GENERAL 1 2 EXTERIOR LIGHTING 20 8 0.50 1.06 10 20 REC - GENERAL 3 4 4 FACP (NOTE #8) 20 10 100 1.00 12 20 TELECOM CABNET 5 6 RRIGATION CONTROLS 20 10 100 20 SPARE 9 10 LIGHTING CONTROLS 20 10 100 20 SPARE 9 10 LIGHTING CONTACTOR LC1 20 12 0.10 20 SPARE 11 12 ECUH-1 20 10 1.00 20 SPARE 15 16 SPARE 20 10 1.00 20 SPARE 17 18 SPARE CONLY 10 1.00 20 SPARE 17 18 SPARE CONLY 20 SPARE CONLY 20 SPARE 20 1.00 1.00 1.00 1.00 1.00 <td>0.90 12 20 REC - GENERAL 0.72 10 20 REC - GENERAL 1.08 8 20 REC - GENERAL 1.08 6 20 REC - GENERAL 1.08 6 20 REC - GENERAL 1.08 6 20 REC - GENERAL 1.00 12 20 TELECOM CABINET 20 SPARE 20 SPARE 20 SPARE 20 SPACE ONLY SPACE ONLY SPACE ONLY SPACE ONLY</td>	0.90 12 20 REC - GENERAL 0.72 10 20 REC - GENERAL 1.08 8 20 REC - GENERAL 1.08 6 20 REC - GENERAL 1.08 6 20 REC - GENERAL 1.08 6 20 REC - GENERAL 1.00 12 20 TELECOM CABINET 20 SPARE 20 SPARE 20 SPARE 20 SPACE ONLY SPACE ONLY SPACE ONLY SPACE ONLY
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NOTES: 1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING. 2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED. 3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER. 4. ALL INCOMING PANEL AND BKKR LUGS SHALL MATCH FEEDERS. 5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK. 6. PROVIDE METAL DIRECTORY FRAME. 7. PANEL SHALL BE NEMA 3R RATED. 8. PROVIDE HANDLE LOCK-ON DEVICE. BREAKER SHALL BE RED. 9. PANEL SCHEDULE IS TYPICAL FOR BUILDINGS 1 AND 6 10 CIRCUIT ONLY CONNECTED TO PANEL 'HP1'. BREAKER SHALL BE SPARE FOR PANEL 'HP6'.	NOTES: 1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING. 2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED. 3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER. 4. ALL INCOMING PANEL AND BRKR LUGS SHALL MATCH FEEDERS. 5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK. 6. PROVIDE METAL DIRECTORY FRAME. 7. PANEL SHALL BE NEMA 3R RATED. 8. PROVIDE HANDLE LOCK-ON DEVICE. BREAKER SHALL BE RED.	NOTES: 1. BREAKER FRAME SHALL BE AS REQ'D PER PAI 2. SHALL BE FULLY RATED - SERIES RATINGS NO 3. ALL BUSSING, INCL GND AND NEUTRAL, SHA 4. ALL INCOMING PANEL AND BRKR LUGS SHAL 5. PROVIDE HINGED DOOR-IN-DOOR WITH OU 6. PROVIDE METAL DIRECTORY FRAME. 7. PANEL SHALL BE NEMA 3R RATED. 8. PROVIDE HANDLE LOCK-ON DEVICE. BREAKE
NEW PANEL: HP4 VOLTAGE: 120/240 MOUNTING: SURFACE	NEW PANEL: HP5 & HP7 (NOTE #9) VOLTAGE: 120/ 240	
PHASE / WIRE: 1φ/ 3W AMPS: 100 MAIN: LUGS ONLY AIC: 22,000 Main Main LUGS ONLY	PHASE / WIRE: 1φ/ 3W AMPS: 100 MAIN: LUGS ONLY AIC: 22,000 MAIN: LUGS ONLY	
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0.54 12 20 REC - GENERAL 1 2 EXTERIOR LIGHTING 20 8 0.50 1.08 10 20 REC - GENERAL 3 4 FACP (NOTE #3) 20 10 1.00 0.54 8 20 REC - GENERAL 5 6 6 REGATION CONTROLS 20 10 1.00 12 20 TELECOM CARNET 7 6 RE ALARM BELL LOTE #8) 20 10 0.50 20 SPARE 9 7 10 LIGHTING CONTACTOR LC1 20 12 0.10 20 SPARE 13 7 14 12 ECUH-1 20 10 1.00 10 1.00 20 SPARE 15 7 16 SPARE 20 10 1.00 10 1.00 10 1.00 10 1.00 10 1.00 10 1.00 10 1.00 10 1.00 10 1.00 10 1.0	0.90 12 20 REC - GENERAL 1 2 LIGHTING - EXTERIOR 20 8 0.52 0.72 10 20 REC - GENERAL 3 4 FACP (NOTE #8) 20 10 100 1.08 8 20 REC - GENERAL 5 6 6 IRRGATION CONTROLS 20 10 100 1.08 6 20 REC - GENERAL 7 6 IRRGATION CONTROLS 20 10 0.55 1.08 6 20 REC - GENERAL 9 10 UGHTING - EXTERIOR 20 12 0.10 0.55 1.08 6 20 REC - GENERAL 9 10 UGHTING CONTACTOR LC1 20 12 0.10 10 <t< td=""><td></td></t<>	
MISC. 3.6 1.00 3.6 L1= 4.8 kVA 39.6 AMPS SPARE 0.0 1.00 0.0 L2= 5.7 kVA 47.7 AMPS	WATER HEATER 0.0 1.00 0.0 DEMAND AT 125% MISC. 3.6 1.00 3.6 L1= 7.2 kVA 60.3 AMPS SPARE 0.0 1.00 0.0 L2= 6.6 kVA 55.2 AMPS NOTES: V	

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W	PAN	EL:	ΗF	53							
20/ 1φ/ 100 22,0	3W								<u>NG:</u> SURFA AIN: LUGS (
		* كى	L1	1		2	* کی	LOAD NAME	TRIP	NIRE	LOAD KVA
		1	-	,		<u> </u>	2	EXTERIOR LIGHTING	20	8	0.50
		3)	4	FACP (NOTE #8)	20	10	1.00
		5	-			~	6	IRRIGATION CONTROLS	20	10	1.00
		7				-	8	FIRE ALARM BELL (NOTE #8)	20	10	0.50
		9	-				10	LIGHTING CONTACTOR LC-1	20	12	0.10
		11	$\vdash \uparrow$			-	12		20	10	1.00
		13	•				14	ECUH-1	20	10	1.00
		15	$\vdash \uparrow$			•	16	SPARE	20		
		17	-				18	SPARE	20		
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			1	SUB TC	TALS						5.1
n.	D.F.	Dmd.				T	OTAL LOA	AD PER PHASE			
0.5	1.25	0.6						NECTED			
2.0	1.00		L1=	5.7				AMPS			
0.0	1.00 1.00	0.0	L2=	5.3	3 kVA		44.2	AMPS			
0.0	1.00	0.0					DEI	MAND			
0.0	0.65		L1-	5.8	3 kVA			AMPS			
4.9	1.00		L2-	5.3				AMPS			
0.0	0.50	0.0									
0.0	1.00	0.0				DEI	MAND AT	125%			
3.6	1.00	3.6	L1=	7.2	2 kVA		60.3	AMPS			
0.0	1.00	0.0	L2=	6.6	5 kVA		55.2	AMPS			

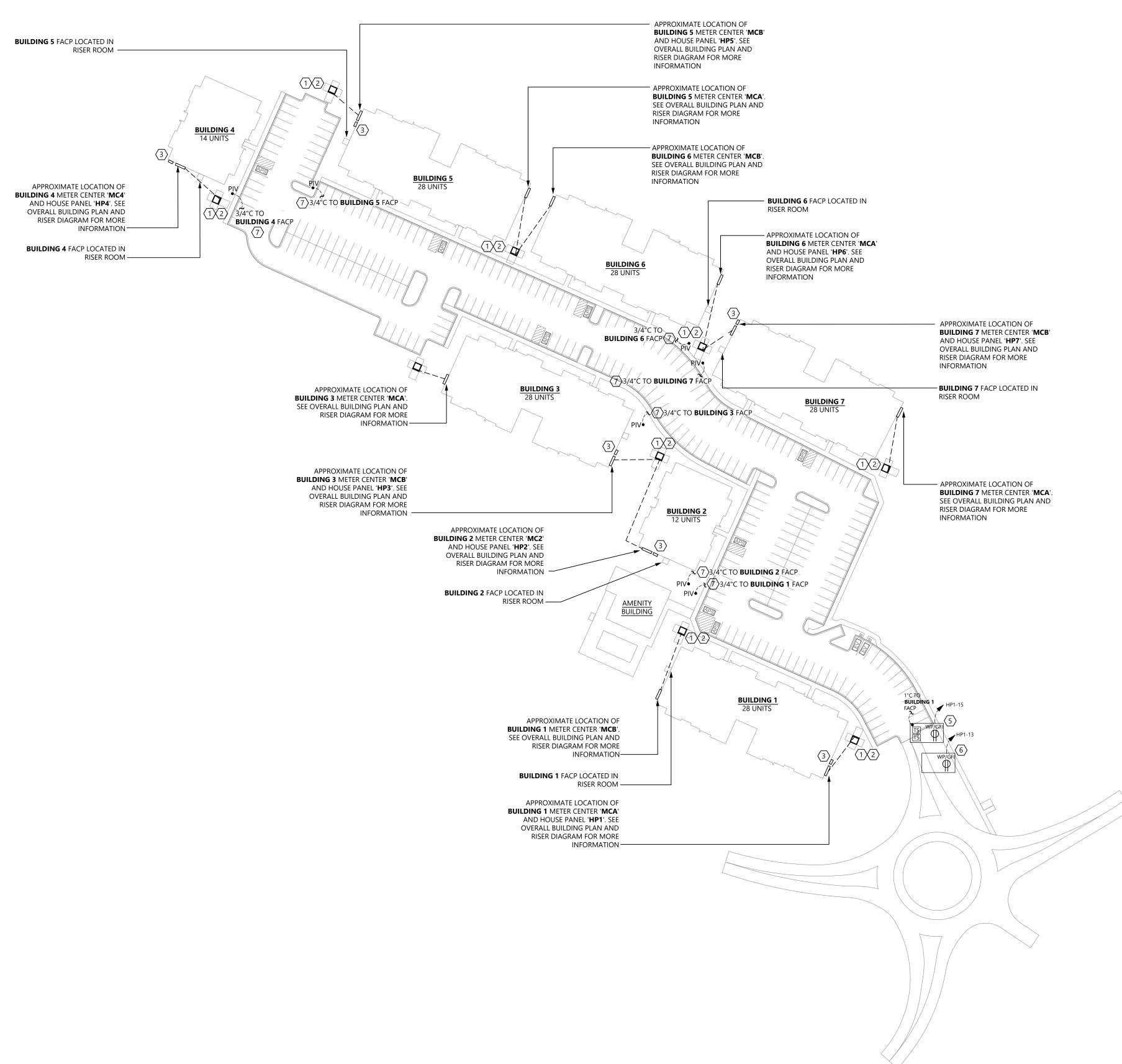
PANEL AIC RATING.

NOT ALLOWED. SHALL BE COPPER.

HALL MATCH FEEDERS. OUTER DOOR LOCK.

AKER SHALL BE RED.



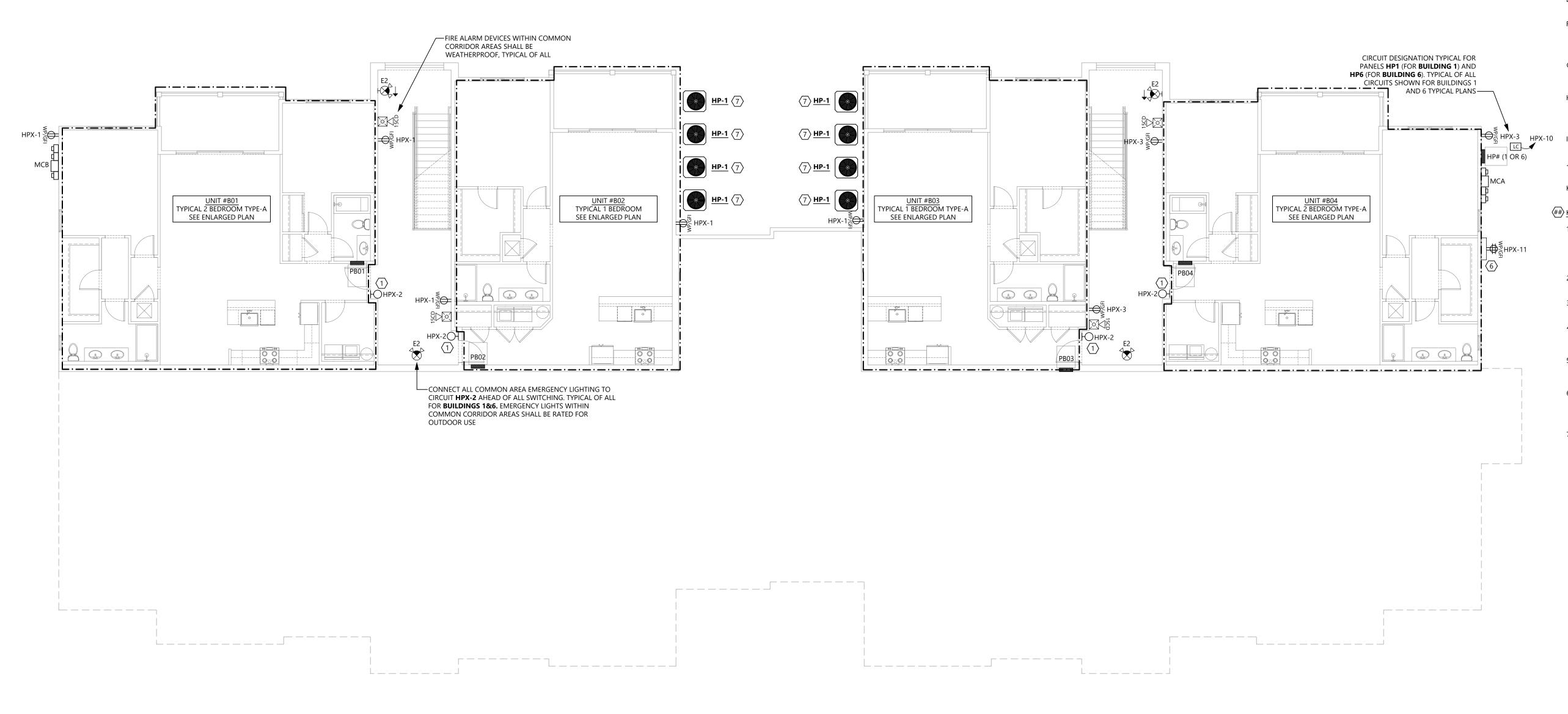




SITE PLAN NOTES:

- 1. UTILITY TRANSFORMER. COORDINATE EXACT LOCATION WITH LOCAL UTILITY AND CIVIL PLAN. 2. PROVIDE (2)-6" CONDUIT FROM PAD MOUNTED TRANSFORMER TO DESIGNATED POINT AT EDGE OF PROPERTY FOR LOCAL POWER UTILITY USE. CONDUIT LOCATION, SIZE, AND BENDING RADIUS SHALL BE COORDINATED WITH UTILITY BEFORE INSTALLATION. PULLBOXES AS REQUIRED BY CODE/LOCAL UTILITY. E.C. TO PROVIDE UP TO 150' OF ADDITIONAL
- (2)-6" CONDUIT AND COMPLETE INSTALLATION BASED ON UTILITY COORDINATION. 3. PROVIDE (2)-4" CONDUIT FROM MAIN TELECOM/INTERNET BOX TO PROPERTY LINE FOR TELEPHONE AND INTERNET SERVICE. CONDUIT LOCATION, SIZE, AND BENDING RADIUS SHALL BE COORDINATED WITH UTILITY BEFORE INSTALLATION.E.C. TO PROVIDE UP TO 150' OF ADDITIONAL (2)-4" CONDUIT AND COMPLETE INSTALLATION BASED ON
- UTILITY COORDINATION. 4. ALL LOW VOLTAGE CONDUIT RUNS SHALL HAVE HAND HOLES/PULL BOXES SUPPLIED AT 150' INTERVALS UNLESS
- OTHERWISE INDICATED BY LOCAL UTILITY. MINIMUM SIZE SHALL BE 36" X 36". 5. FIRE SERVICE BACKFLOW, PROVIDE 1" CONDUIT TO FACP INDICATED ON PLANS FOR TAMPER SWITCHES. COORDINATE
- EXACT QUANTITY AND LOCATION WITH CIVIL PLANS. 6. DOMESTIC SERVICE BACKFLOW, COORDINATE EXACT LOCATION WITH CIVIL PLANS.
- 7. POST INDICATOR VALVE, 3/4" TO FACP INDICATED ON PLANS. COORDINATE EXACT LOCATION WITH CIVIL PLANS.





OVERALL PLAN - BUILDINGS 1 & 6 (28-UNIT BLDG) - BASEMENT

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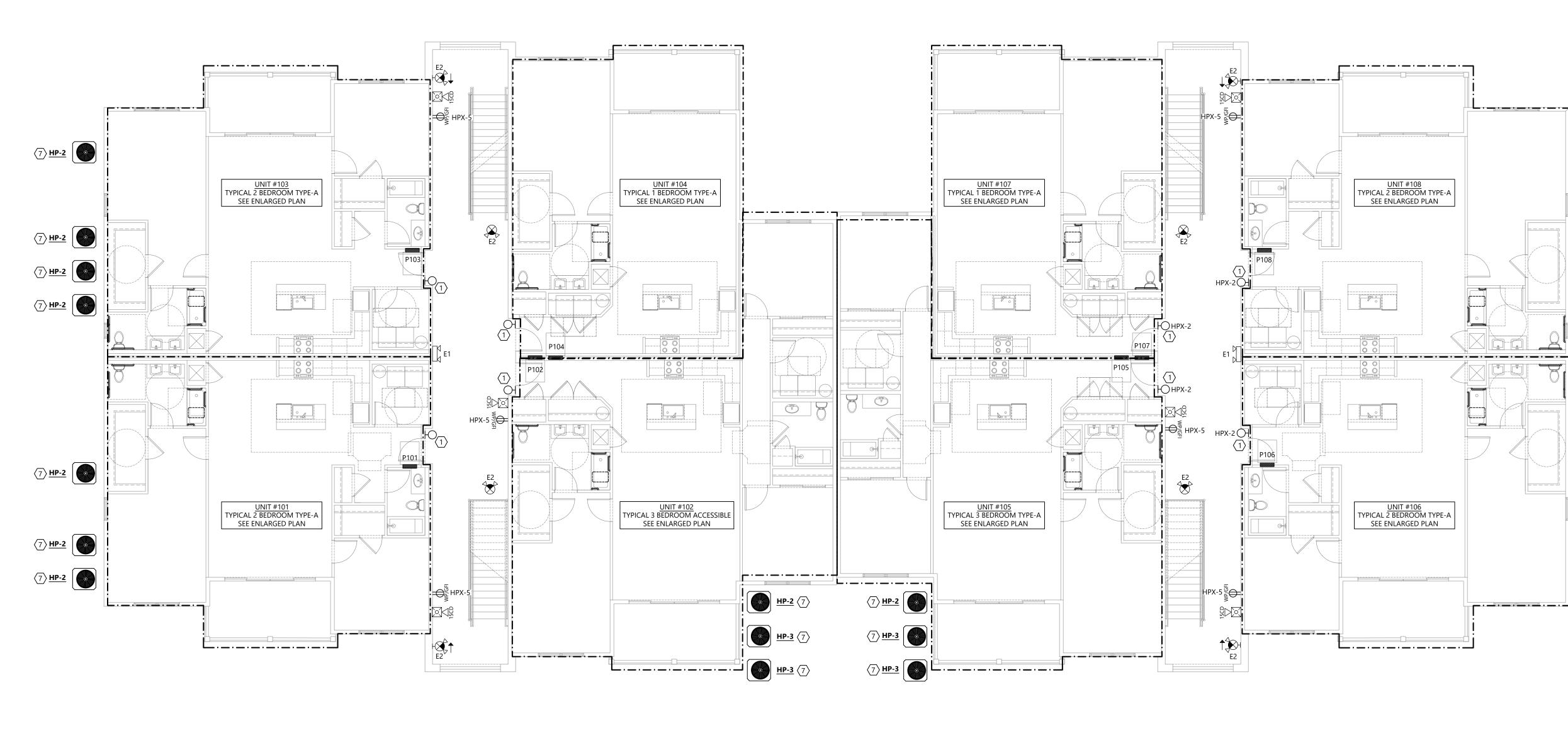
GENERAL NOTES:

- A. CONTRACTOR SHALL PROVIDE DETAILED AS-BUILT DRAWINGS. PROVIDE COPY OF AS-BUILT DRAWINGS TO OWNER AND ENGINEER AT PROJECT COMPLETION.
- B. ALL CONDUIT SHALL BE CONCEALED BEHIND WALLS AND ABOVE CEILINGS. NO EXPOSED CONDUIT PERMITTED.
- C. MC CABLE SHALL NOT BE EXPOSED. CIRCUITS NOT CONCEALED BY CEILINGS SHALL BE RUN IN CONDUIT. CIRCUITS INSTALLED BEHIND HARD CEILINGS SHALL BE IN CONDUIT. ALL WORK IN ELECTRICAL ROOMS SHALL BE IN CONDUIT.
- D. LABEL ALL RECEPTACLES WITH CIRCUIT AND PANEL INFORMATION.
- E. PROVIDE PLASTIC BUSHINGS ON CONDUIT ENDS FOR ALL CONDUITS STUBBED ABOVE CEILING.
- F. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATION WITH MECHANICAL CONTRACTOR AND NEW DUCTWORK PRIOR TO ROUGH-IN. RELOCATION OF DUCTWORK FOR CONFLICT WITH NEW LIGHTING WILL BE AT EXPENSE OF CONTRACTOR.
- G. PROVIDE 90 MINUTE BATTERY BACKUP FOR ALL EMERGENCY FIXTURES SHOWN ON THIS PLAN. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING.
- H. COORDINATE ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTION LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS AND APPROVED MECHANICAL SUBMITTALS PRIOR TO ORDERING AND INSTALLATION.
- ALL 15A AND 20A RECEPTACLES IN COMMON AREAS SHALL BE TAMPER RESISTANT.
- SMOKE/HEAT DETECTORS SHALL NOT BE LOCATED WITHIN 3' OF MECHANICAL AIR TERMINALS AND DIFFUSERS.
- K. COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
- (##) KEYED NOTES (ALL MAY NOT BE ON THIS SHEET):

1

- WALL SCONCE (FIXTURE TAG 'B') AT EACH APARTMENT ENTRY DOOR. REFER TO ENLARGED UNIT PLANS. COORDINATE EXACT LOCATION IN FIELD WITH ARCHITECT. ROUTE THROUGH LIGHTING CONTACTOR FOR ASSOCIATED BUILDING. CONTACTOR TO BE LOCATED ADJACENT TO BUILDING HOUSE PANEL. SEE LIGHTING CONTACTOR DETAIL.
- 2. COORDINATE FACP LOCATION WITH FIRE RISER, IRRIGATION CONTROLS, ETC. WITHIN UTILITY ROOM.
- 3. POWER FOR IRRIGATION CONTROLS. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- 4. ALL QUANTITIES, LOCATIONS, ETC. OF TAMPER AND FLOW SWITCHES SHALL BE COORDINATED WITH FIRE PROTECTION CONTRACTOR PRIOR TO START OF WORK AND ORDERING OF EQUIPMENT, DEVICES, ETC.
- 5. FIRE ALARM BELL. COORDINATED EXACT QUANTITY, LOCATION, REQUIREMENTS, ETC. WITH FIRE PROTECTION CONTRACTOR PRIOR TO START OF WORK AND ORDERING OF EQUIPMENT, DEVICES, ETC.
- 6. MAIN TELECOM CABINET FOR BUILDING. PROVIDE 36"x36" NEMA 3R CABINET AND (2)-4"C FROM CABINET TO MAIN PROPERTY LINE AND CONNECTION TO UTILITY. PROVIDE WP/GFI QUAD RECEPTACLE WITHIN CABINET, CONNECT TO CIRCUIT SHOWN ON PLANS.
- 7. COORDINATE WITH M.C. FOR WHICH UNIT EACH HEAT PUMP IS ASSOCIATED WITH. SIZE FEEDERS TO ACCOMMODATE VOLTAGE DROP PER NEC. SEE ENLARGED UNIT PLAN AND PANEL SCHEDULE FOR CIRCUIT DESIGNATION, DISCONNECT SIZE, ETC.





OVERALL PLAN - BUILDINGS 1 & 6 (28-UNIT BLDG) - FIRST FLOOR

	MECHANICAL EQUIPMENT CONNECTION SCHEDULE - OVERALL PLAN												
EQUIPMENT CHARACTERISTICS													
TAG	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	KW	- FLA	MCA	МОСР	FEEDER	SIZE	POLE	FUSE	NEMA	NOTES
<u>ECUH-1</u>	ELECTRIC WALL HEATER	240	1	2.00	-	-	20	3#12,1#12G,3/4"C	30	2	20	1	1
NOTES:												· · · ·	
1	COORDINATE ALL ROUGH-IN LOO	CATIONS, CON	INECTION T	YPES, BREAKER	SIZES, ETC	. WITH API	PROVED ME	CHANICAL EQUIPMENT SUB	MITTALS PRI	IOR TO RC	UGH-IN AI	ND	
	INSTALLATION. ALL ROUGH-INS S	SHALL BE REVI	EWED AND A	APPROVED BY N	MECHANIC	AL CONTR	ACTOR.						

GENERAL NOTES:

CONTRACTOR SHALL PROVIDE DETAILED AS-BUILT DRAWINGS. PROVIDE COPY OF AS-BUILT DRAWINGS TO OWNER AND ENGINEER AT PROJECT COMPLETION.

- B. ALL CONDUIT SHALL BE CONCEALED BEHIND WALLS AND ABOVE CEILINGS. NO EXPOSED CONDUIT PERMITTED.
- MC CABLE SHALL NOT BE EXPOSED. CIRCUITS NOT CONCEALED BY CEILINGS SHALL BE RUN IN CONDUIT. CIRCUITS INSTALLED BEHIND HARD CEILINGS SHALL BE IN CONDUIT. ALL WORK IN ELECTRICAL ROOMS SHALL BE IN CONDUIT.
- D. LABEL ALL RECEPTACLES WITH CIRCUIT AND PANEL INFORMATION.
- E. PROVIDE PLASTIC BUSHINGS ON CONDUIT ENDS FOR ALL CONDUITS STUBBED ABOVE CEILING.
- F. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATION WITH MECHANICAL CONTRACTOR AND NEW DUCTWORK PRIOR TO ROUGH-IN. RELOCATION OF DUCTWORK FOR CONFLICT WITH NEW LIGHTING WILL BE AT EXPENSE OF CONTRACTOR.
- G. PROVIDE 90 MINUTE BATTERY BACKUP FOR ALL EMERGENCY FIXTURES SHOWN ON THIS PLAN. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING.
- H. COORDINATE ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTION LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS AND APPROVED MECHANICAL SUBMITTALS PRIOR TO ORDERING AND INSTALLATION.
- ALL 15A AND 20A RECEPTACLES IN COMMON AREAS SHALL BE TAMPER RESISTANT.
- SMOKE/HEAT DETECTORS SHALL NOT BE LOCATED WITHIN 3' OF MECHANICAL AIR TERMINALS AND DIFFUSERS.
- K. COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
- (##) KEYED NOTES (ALL MAY NOT BE ON THIS SHEET):

<u>HP-2</u> 7

HP-2 < 7

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HP-2 ⟨7⟩

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HPX-6

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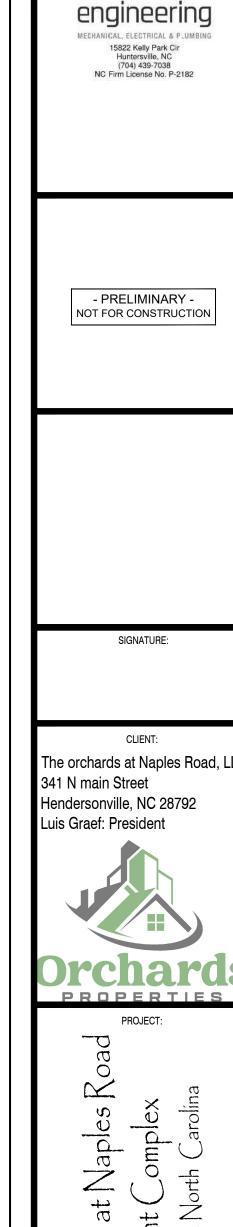
- KHPX-3

/ HPX-8

HPX-12,14

- WALL SCONCE (FIXTURE TAG 'B') AT EACH APARTMENT ENTRY DOOR. REFER TO ENLARGED UNIT PLANS. COORDINATE EXACT LOCATION IN FIELD WITH ARCHITECT. ROUTE THROUGH LIGHTING CONTACTOR FOR ASSOCIATED BUILDING. CONTACTOR TO BE LOCATED ADJACENT TO BUILDING HOUSE PANEL. SEE LIGHTING CONTACTOR DETAIL.
- COORDINATE FACP LOCATION WITH FIRE RISER, IRRIGATION CONTROLS, ETC. WITHIN UTILITY ROOM.
- 3. POWER FOR IRRIGATION CONTROLS. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- ALL QUANTITIES, LOCATIONS, ETC. OF TAMPER AND FLOW SWITCHES SHALL 4 BE COORDINATED WITH FIRE PROTECTION CONTRACTOR PRIOR TO START OF WORK AND ORDERING OF EQUIPMENT, DEVICES, ETC.
- FIRE ALARM BELL. COORDINATED EXACT QUANTITY, LOCATION, 5. REQUIREMENTS, ETC. WITH FIRE PROTECTION CONTRACTOR PRIOR TO START OF WORK AND ORDERING OF EQUIPMENT, DEVICES, ETC.
- MAIN TELECOM CABINET FOR BUILDING. PROVIDE 36"x36" NEMA 3R CABINET AND (2)-4"C FROM CABINET TO MAIN PROPERTY LINE AND CONNECTION TO UTILITY. PROVIDE WP/GFI QUAD RECEPTACLE WITHIN CABINET, CONNECT TO CIRCUIT SHOWN ON PLANS.
- COORDINATE WITH M.C. FOR WHICH UNIT EACH HEAT PUMP IS ASSOCIATED WITH. SIZE FEEDERS TO ACCOMMODATE VOLTAGE DROP PER NEC. SEE ENLARGED UNIT PLAN AND PANEL SCHEDULE FOR CIRCUIT DESIGNATION, DISCONNECT SIZE, ETC.

- ECUH-240V/1PF 2kW MOCP: 20A 2#12,1#12G,3/4"(30/20F/2P/1 DSC



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REVISIONS

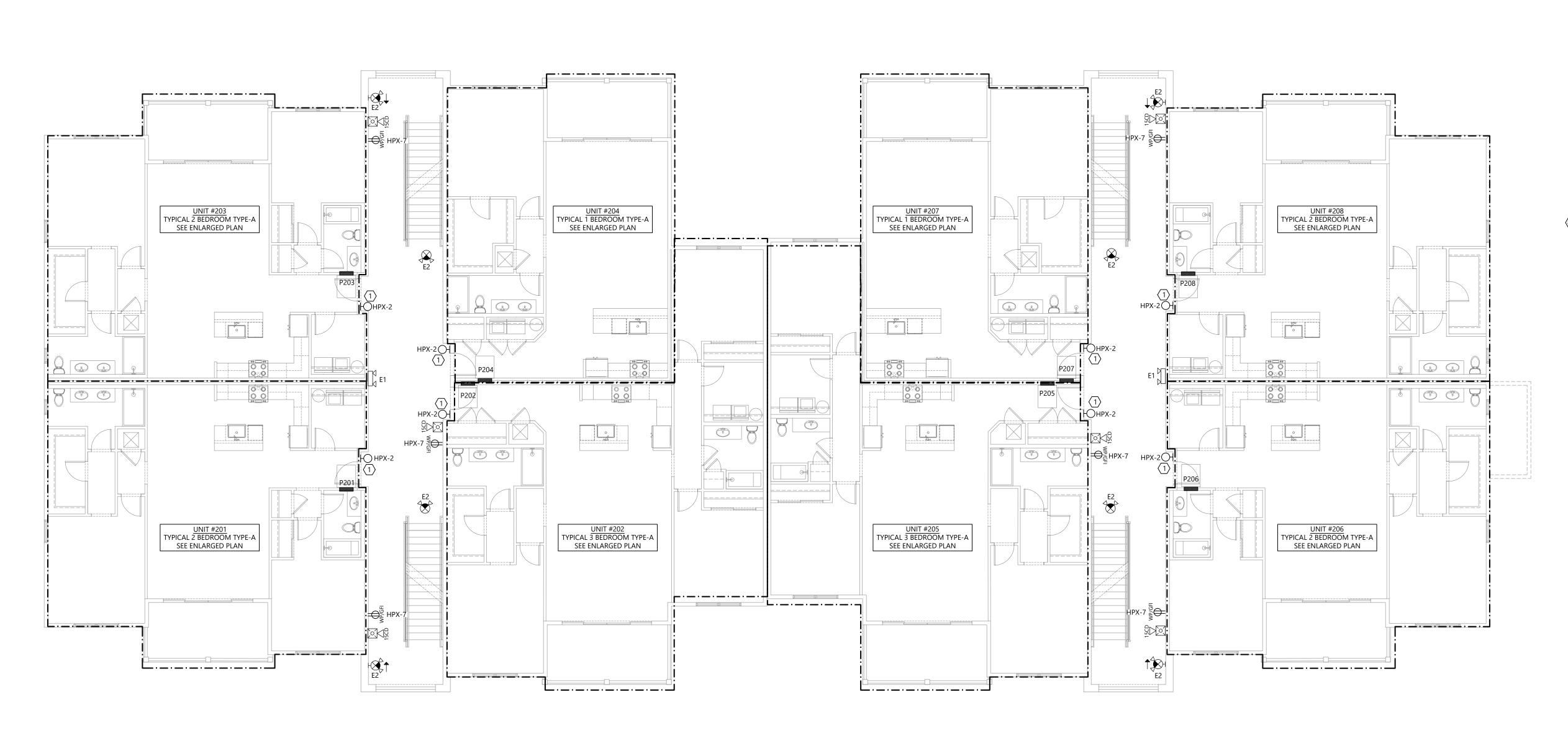
DWG INFO

DWG DECRIPTION : OVERALL ELECTRICAL PLAN - FIRST FLOOR BUILDINGS 1 & 6

WILDE #: 24-125

DATE

Wilde —



1 OVERALL PLAN - BUILDINGS 1 & 6 (28-UNIT BLDG) - SECOND FLOOR

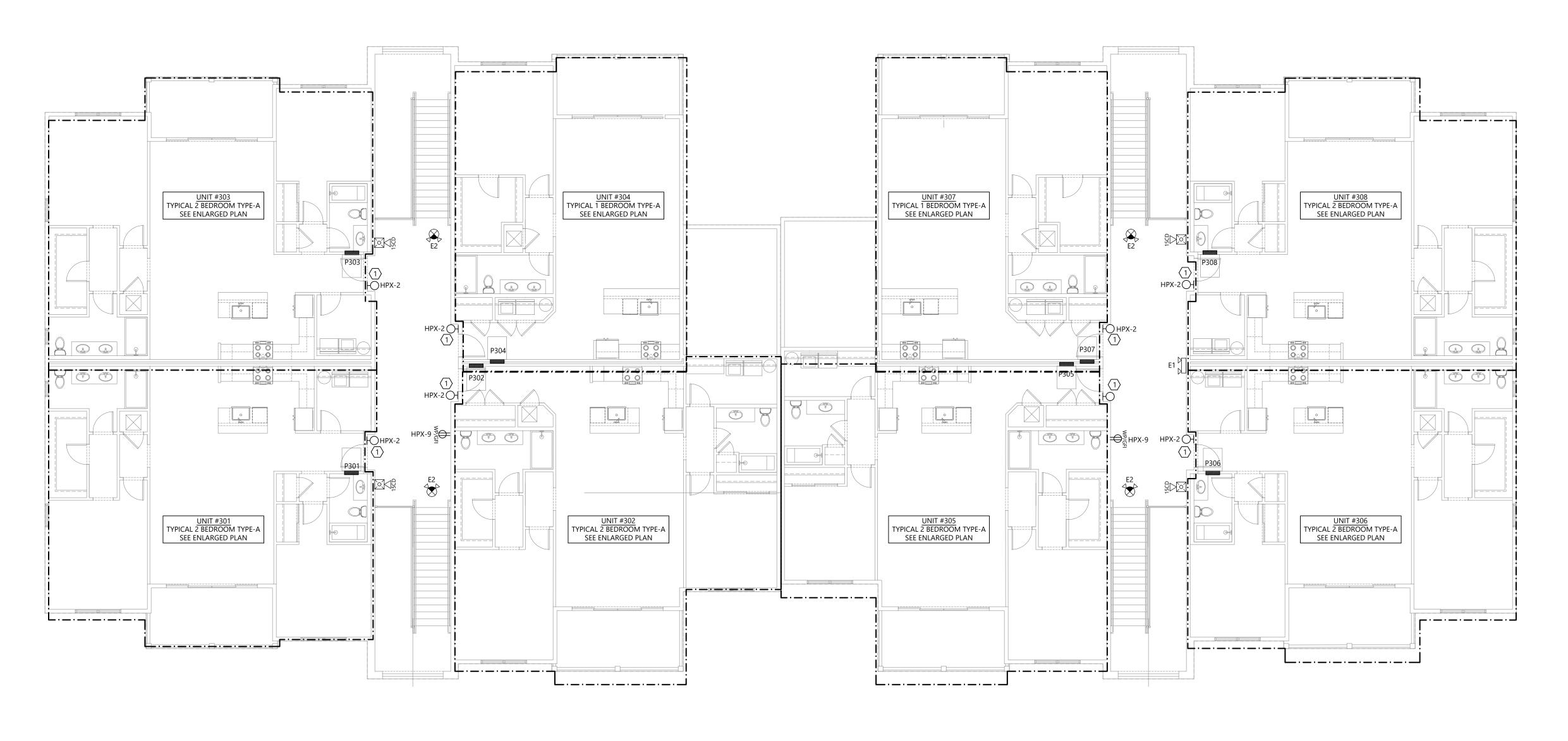
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- B. ALL CONDUIT SHALL BE CONCEALED BEHIND WALLS AND ABOVE CEILINGS. NO EXPOSED CONDUIT PERMITTED.
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SIGNATURE:
CLIENT: The orchards at Naples Road, LLC 341 N main Street Hendersonville, NC 28792 Luis Graef: President PROJECT: PROJECT: Hendersonville', North Carolina PROJECT: Hendersonville', North Carolina Hendersonville', North Carolina
REVISIONS DATE
DWG INFO :
DWG DECRIPTION : OVERALL ELECTRICAL PLAN - SECOND FLOOR - BUILDINGS 1 & 6
E-13



OVERALL PLAN - BUILDINGS 1 & 6 (28-UNIT BLDG) - THIRD FLOOR

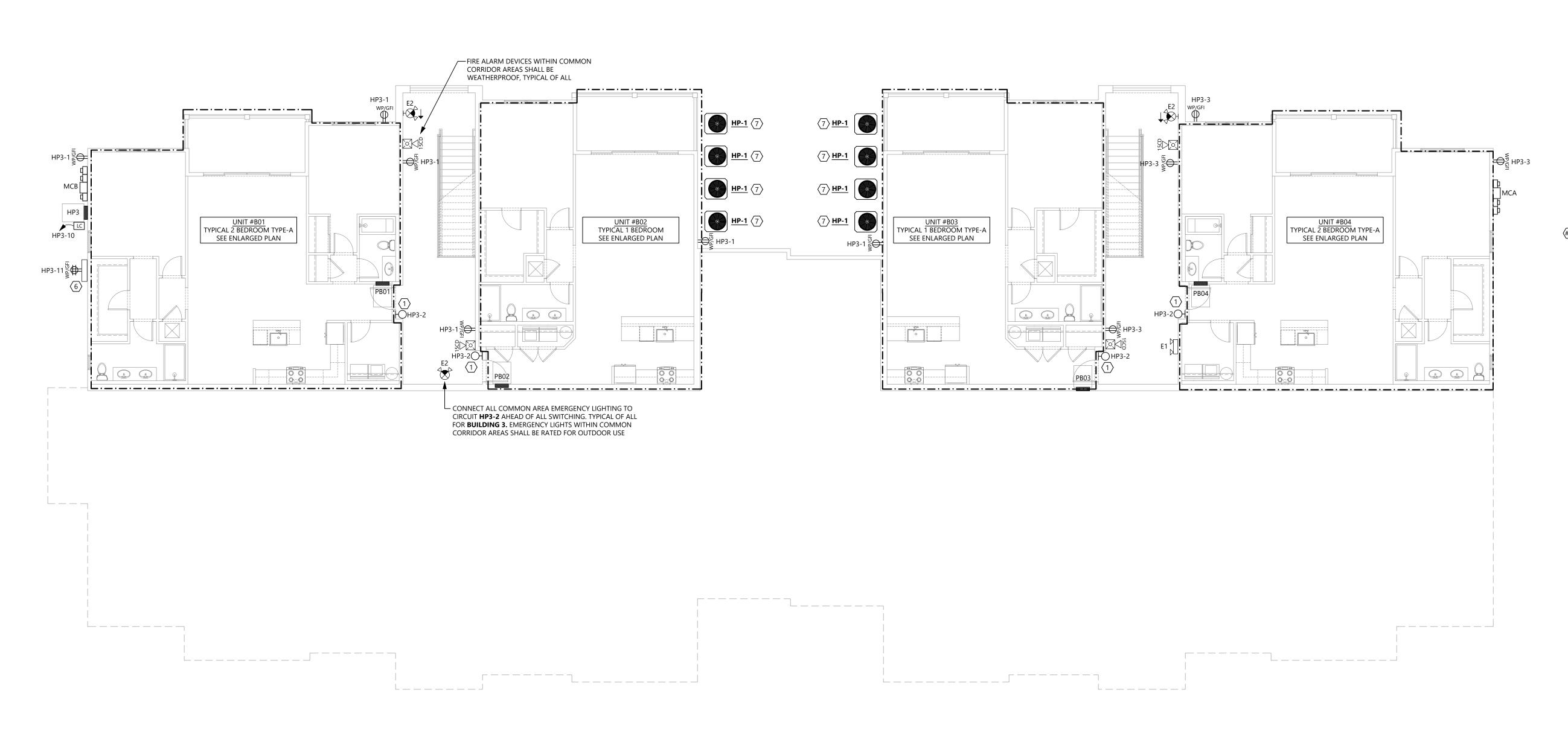


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) OVERALL PLAN - BUILDING 3 (28-UNIT BLDG) - BASEMENT LEVEL

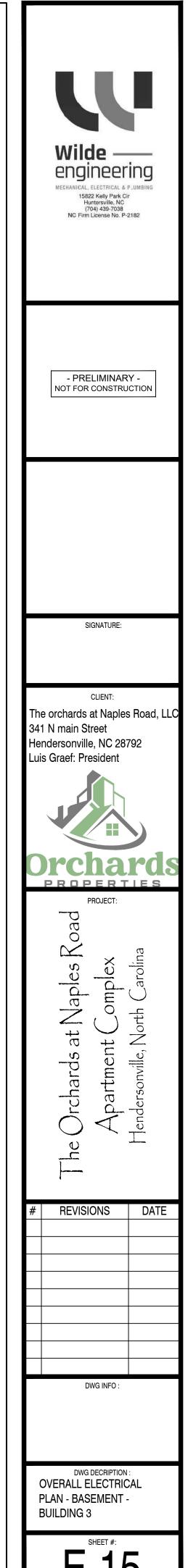
THIS DRAWING IS AN INSTRUMENT OF SERVICE. THE DRAWING AND THE INFORMATION THEREON IS THE PROPERTY OF WILDE ENGINEERING, PLLC. ANY REPRODUCTION, ALTERATION, OR USE FOR OTHER THAN THE INFORMATION THEREON IS THE PROPERTY OF WILDE ENGINEERING, PLLC. ANY REPRODUCTION, ALTERATION, OR USE FOR OTHER THAN THE INFORMATION THEREON IS THE PROPERTY OF WILDE ENGINEERING, PLLC. ANY REPRODUCTION, ALTERATION, OR USE FOR OTHER THAN THE INFORMATION THEREON IS THE PROPERTY OF WILDE ENGINEERING, PLLC. ANY REPRODUCTION, ALTERATION, OR USE FOR OTHER THAN THE INFORMATION THEREON IS THE PROPERTY OF WILDE ENGINEERING, PLLC. ANY REPRODUCTION, ALTERATION, OR USE FOR OTHER THAN THE INFORMATION THEREON IS THE PROPERTY OF WILDE ENGINEERING, PLLC. ANY REPRODUCTION, ALTERATION, OR USE FOR OTHER THAN THE INFORMATION THEREON IS THE PROPERTY OF WILDE ENGINEERING, PLLC. ANY REPRODUCTION, ALTERATION, OR USE FOR OTHER THAN THE INFORMATION THEREON IS THE PROPERTY OF WILDE ENGINEERING, PLLC. ANY REPRODUCTION, ALTERATION, OR USE FOR OTHER THAN THE INFORMATION THE

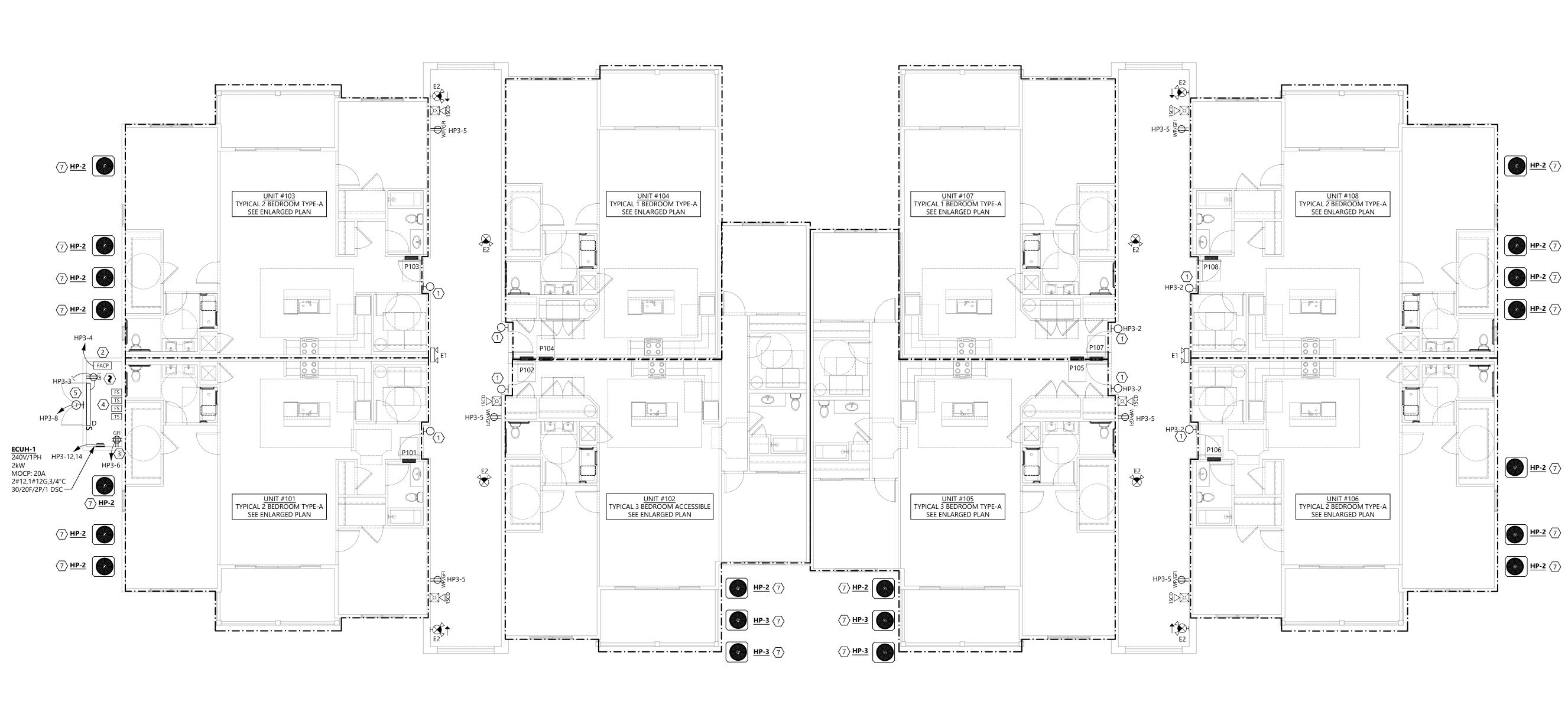


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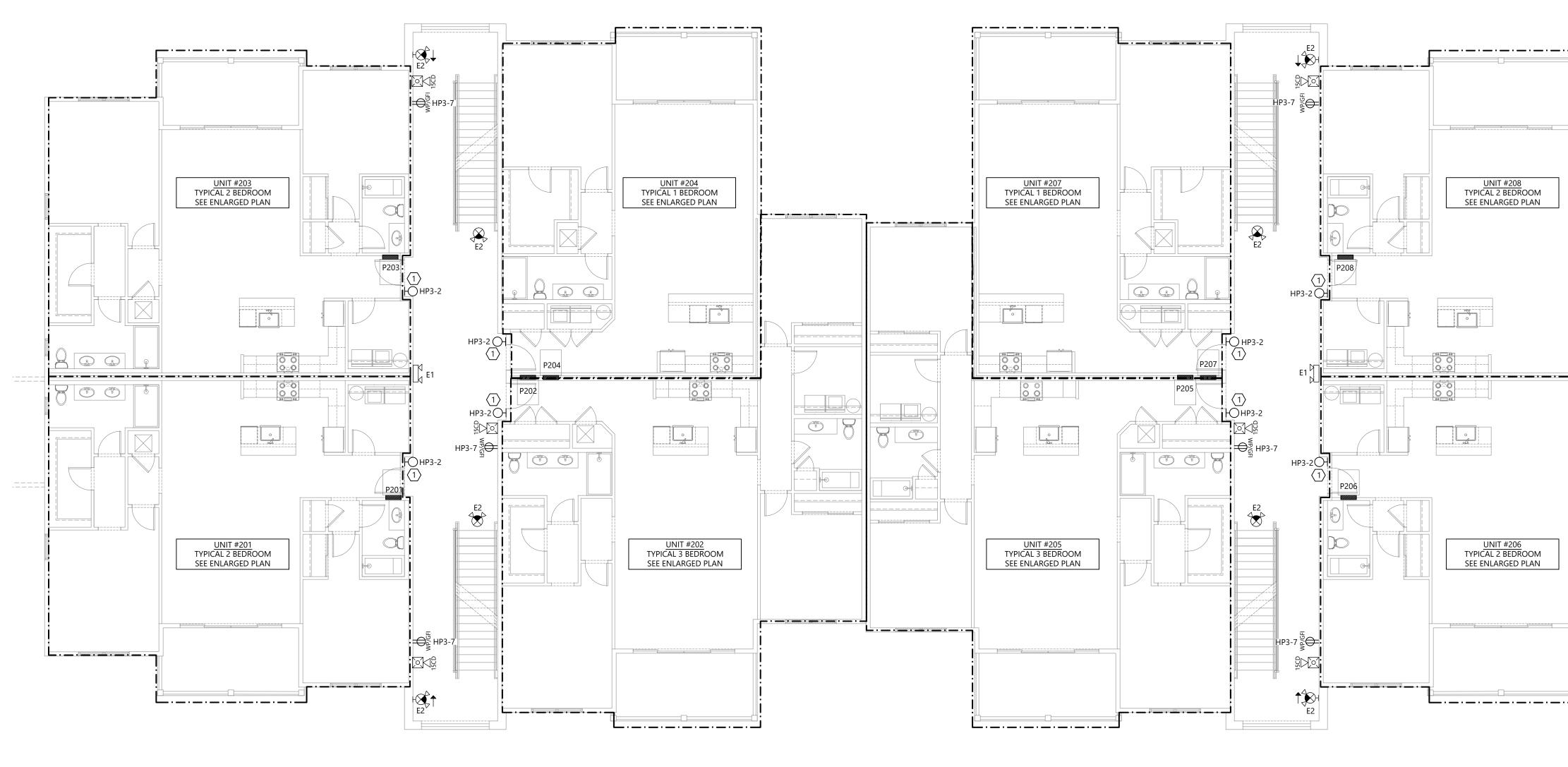
OVERALL PLAN - BUILDING 3 (28-UNIT BLDG) - FIRST FLOOR

	MECHANICAL EQUIPMENT CONNECTION SCHEDULE - OVERALL PLAN												
EQUIPMENT CHARACTERISTICS													
TAG	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	кw	- FLA	MCA	МОСР	FEEDER	SIZE	POLE	FUSE	NEMA	NOTES
<u>ECUH-1</u>	ELECTRIC WALL HEATER	240	1	2.00	-	-	20	3#12,1#12G,3/4"C	30	2	20	1	1
NOTES:													
1	COORDINATE ALL ROUGH-IN LO	CATIONS, CON	NECTION T	YPES, BREAKER	SIZES, ETC	C. WITH AP	PROVED ME	CHANICAL EQUIPMENT SUB	MITTALS PR	IOR TO RC	UGH-IN A	ND	
	INSTALLATION. ALL ROUGH-INS S	SHALL BE REVI	EWED AND	APPROVED BY I	MECHANIC	AL CONTR	ACTOR.						

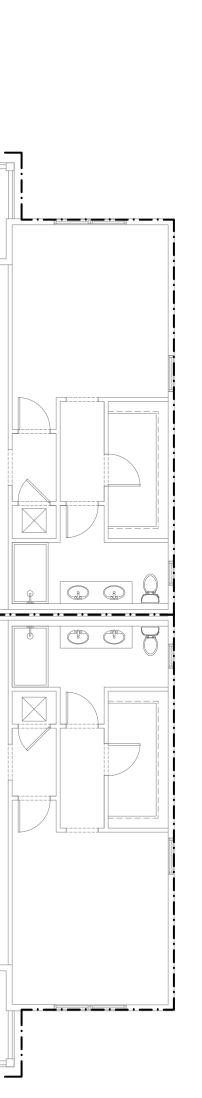
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OVERALL PLAN - BUILDING 3 (28-UNIT BLDG) - SECOND FLOOR 1



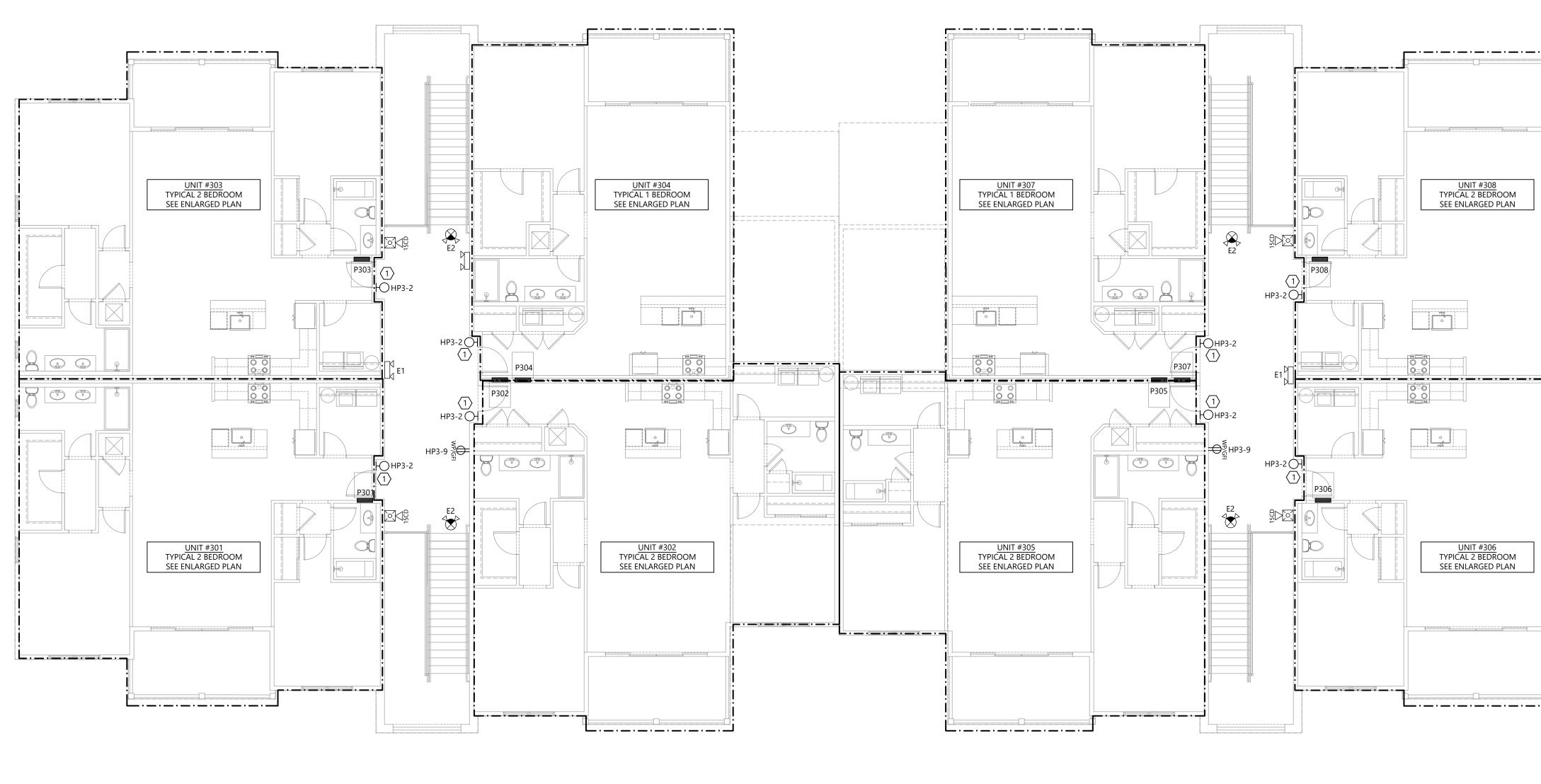
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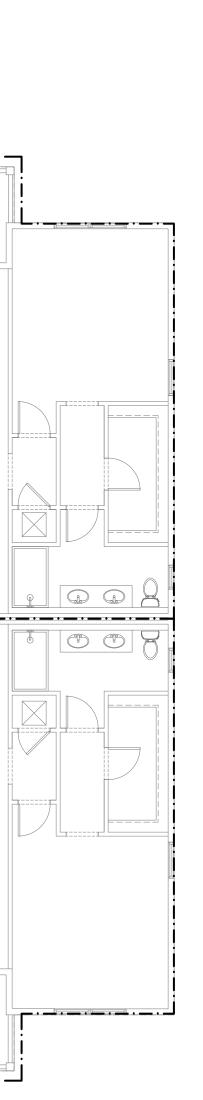
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	MECHANICAL, ELECTRICAL & MECHANICAL, ELECTRICAL & 15822 Kelly Park Ci Huntersville, NC (704) 439-7038 NC Firm License No. P-3	LUMBING
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OVERALL PLAN - BUILDING 3 (28-UNIT BLDG) - THIRD FLOOR 1



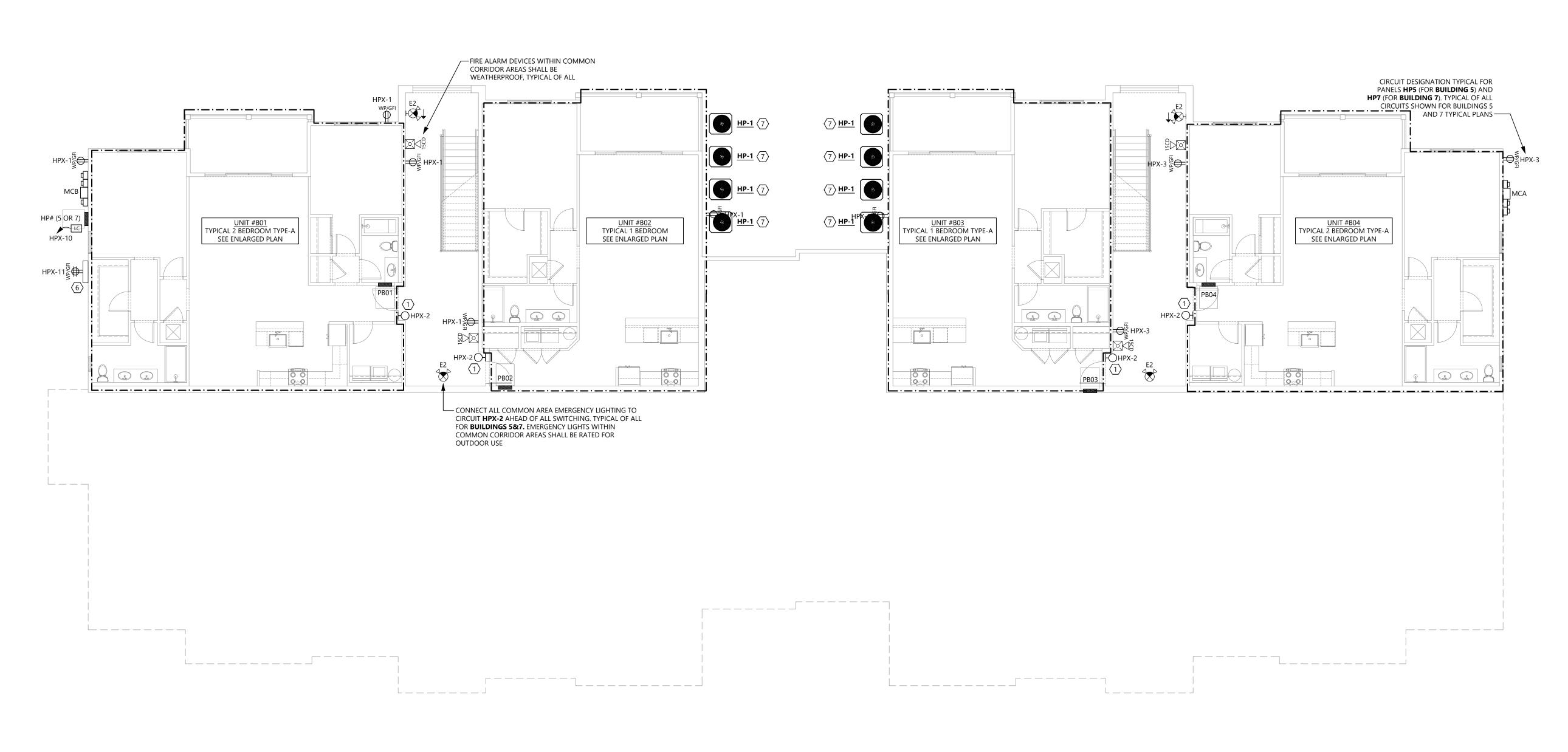
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DWG DECRIPTION : OVERALL ELECTRICAL PLAN - THIRD FLOOR - BUILDING 3	
E-18	





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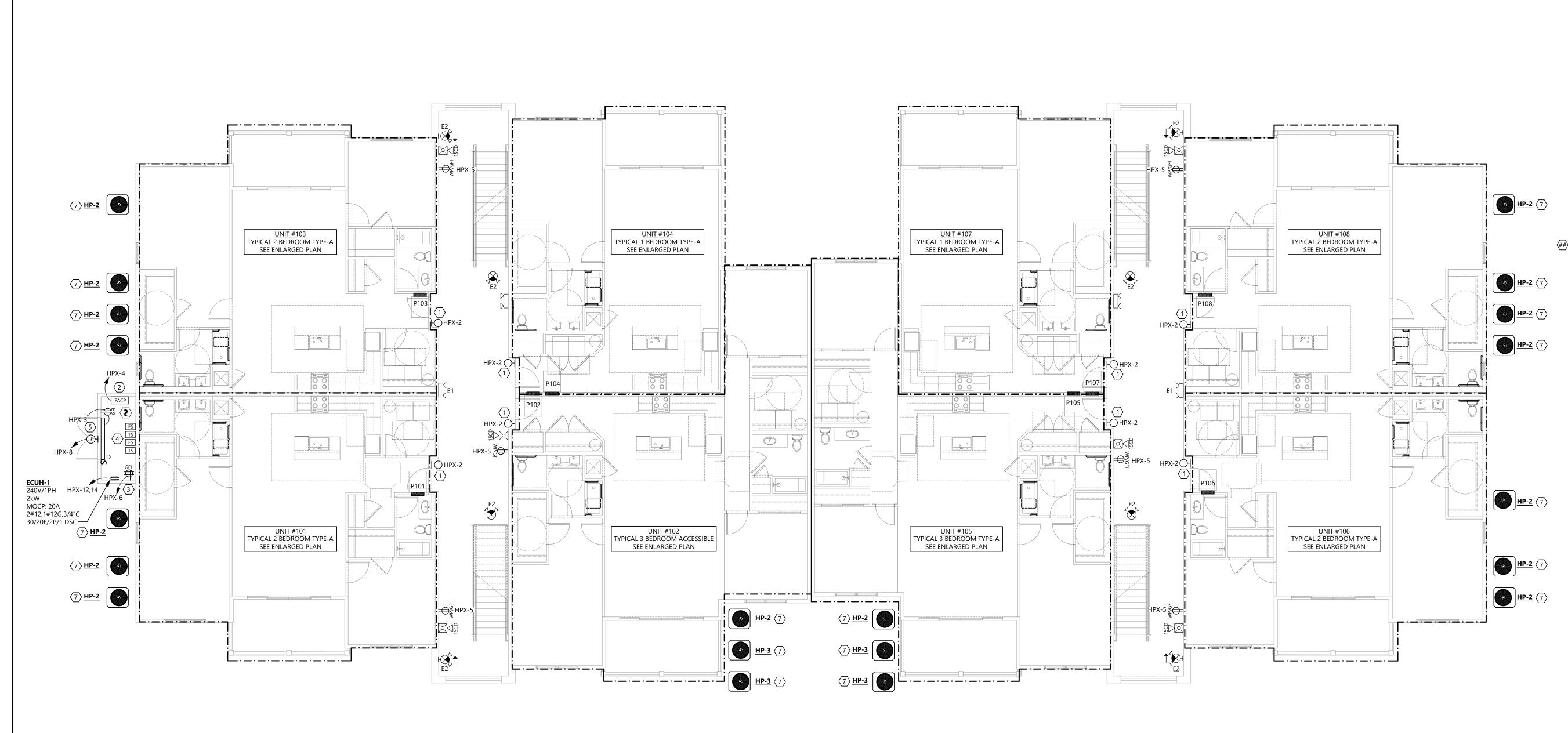
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- G. PROVIDE 90 MINUTE BATTERY BACKUP FOR ALL EMERGENCY FIXTURES SHOWN ON THIS PLAN. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING.
- H. COORDINATE ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTION LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS AND APPROVED MECHANICAL SUBMITTALS PRIOR TO ORDERING AND INSTALLATION.
- ALL 15A AND 20A RECEPTACLES IN COMMON AREAS SHALL BE TAMPER RESISTANT.
- SMOKE/HEAT DETECTORS SHALL NOT BE LOCATED WITHIN 3' OF J. MECHANICAL AIR TERMINALS AND DIFFUSERS.
- K. COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.

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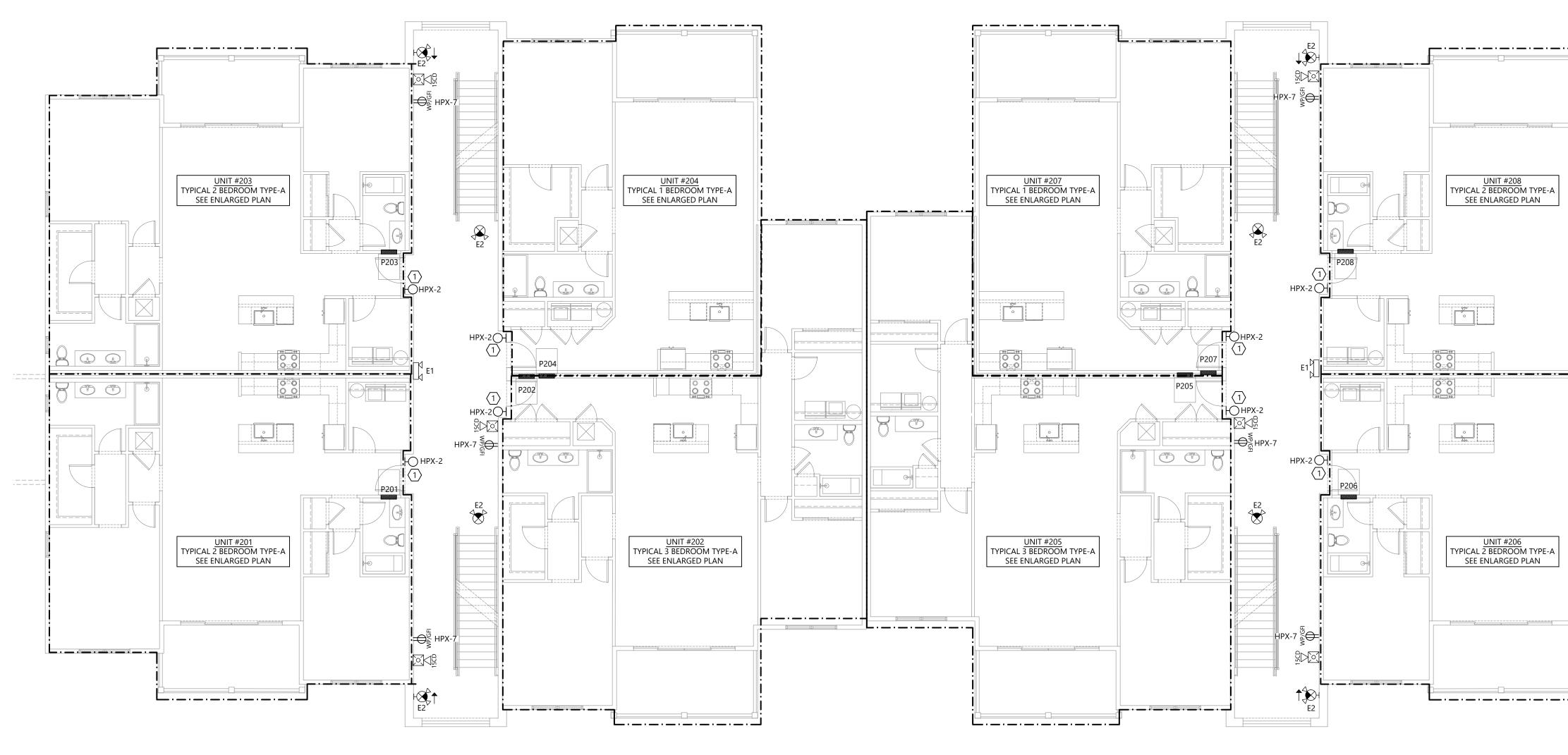
OVERALL PLAN - BUILDINGS 5 & 7 (28-UNIT BLDG) - FIRST FLOOR

	MECHANICAL EQUIPMENT CONNECTION SCHEDULE - OVERALL PLAN												
	EQUIPMENT CHARACTERISTICS FLA MCA MOCP FEEDER DISCONNECT SWITCH												
TAG	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	KW	FLA	IVICA	NICCP	FEEDER	SIZE	POLE	FUSE	NEMA	NOTES
<u>ECUH-1</u>	ELECTRIC WALL HEATER	240	1	2.00	-	-	20	3#12,1#12G,3/4"C	30	2	20	1	1
NOTES:													
1	1 COORDINATE ALL ROUGH-IN LOCATIONS, CONNECTION TYPES, BREAKER SIZES, ETC. WITH APPROVED MECHANICAL EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN AND												
	INSTALLATION. ALL ROUGH-INS	SHALL BE REVI	EWED AND /	APPROVED BY N	/IECHANIC	AL CONTR	ACTOR.						

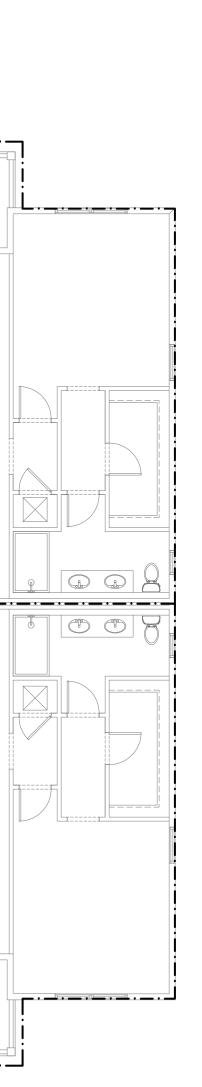
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1 OVERALL PLAN - BUILDINGS 5 & 7 (28-UNIT BLDG) - SECOND FLOOR



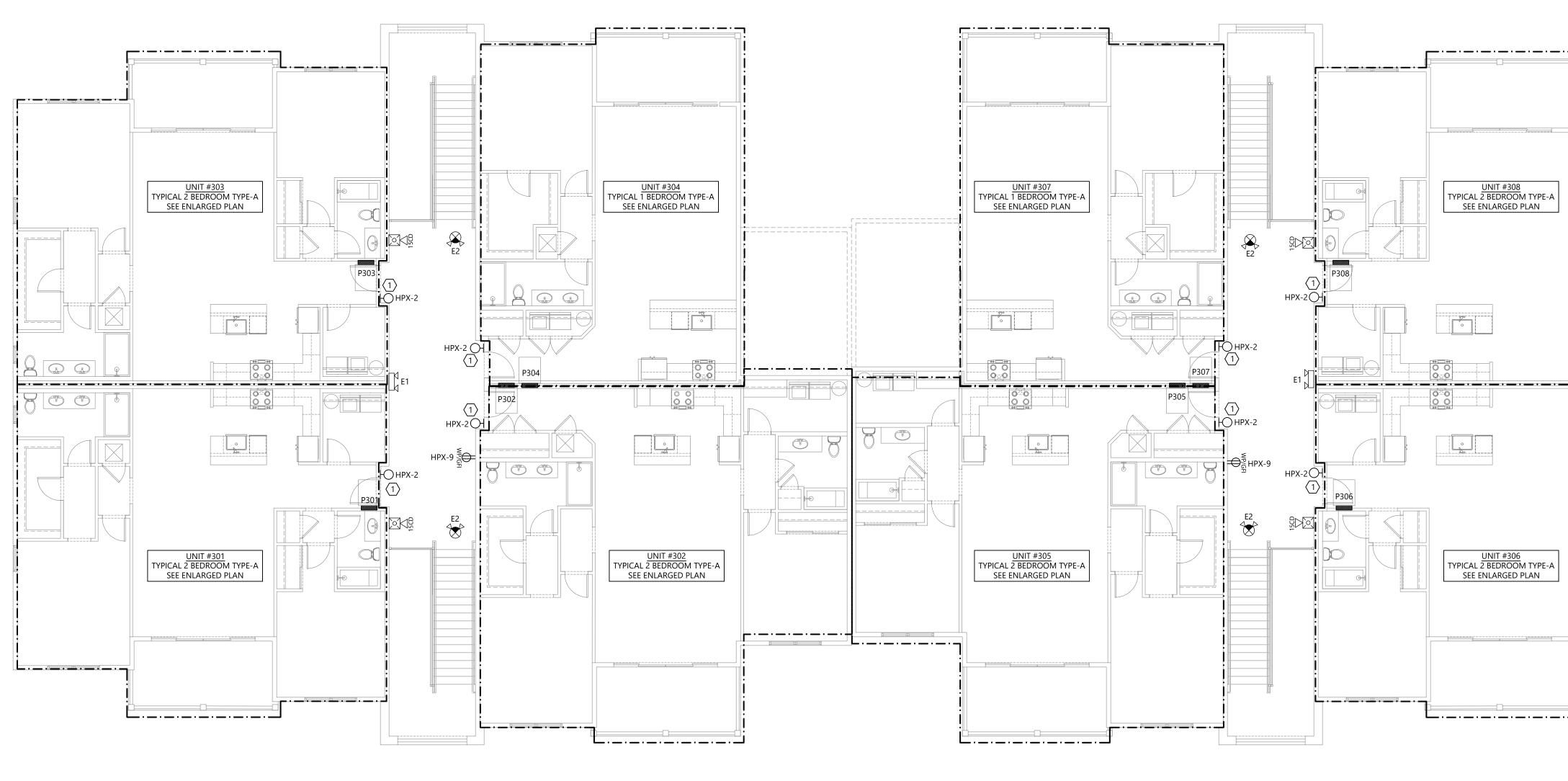
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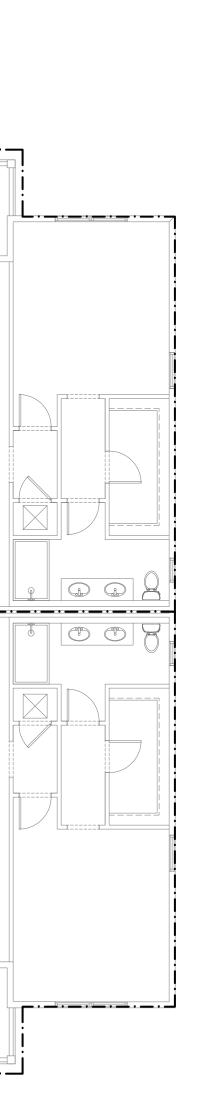
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- PRELIMINARY - NOT FOR CONSTRUCTION
SIGNATURE:
CLIENT: The orchards at Naples Road, LLC 341 N main Street Hendersonville, NC 28792 Luis Graef: President PROJECT: PROJECT: Hendersonville', North Carolina PROJECT: PROJECT: PROJECT: Hendersonville', North Carolina PROJECT: PROJECT: Hendersonville', North Carolina Hendersonville', North Carolina
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DWG INFO :
DWG DECRIPTION : OVERALL ELECTRICAL PLAN - SECOND FLOOR - BUILDINGS 5 & 7
SHEET #: E-21



OVERALL PLAN - BUILDINGS 5 & 7 (28-UNIT BLDG) - THIRD FLOOR 1



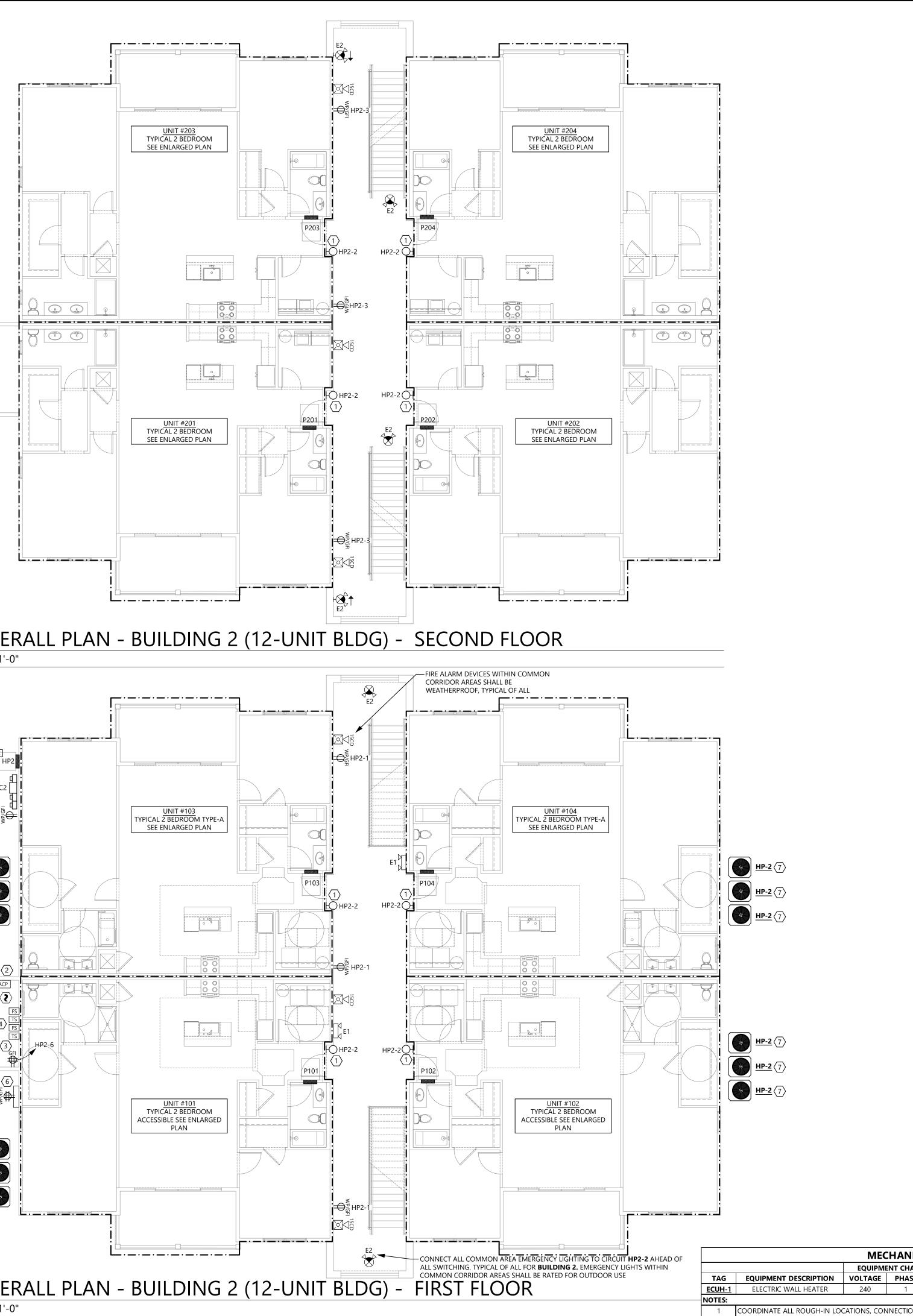
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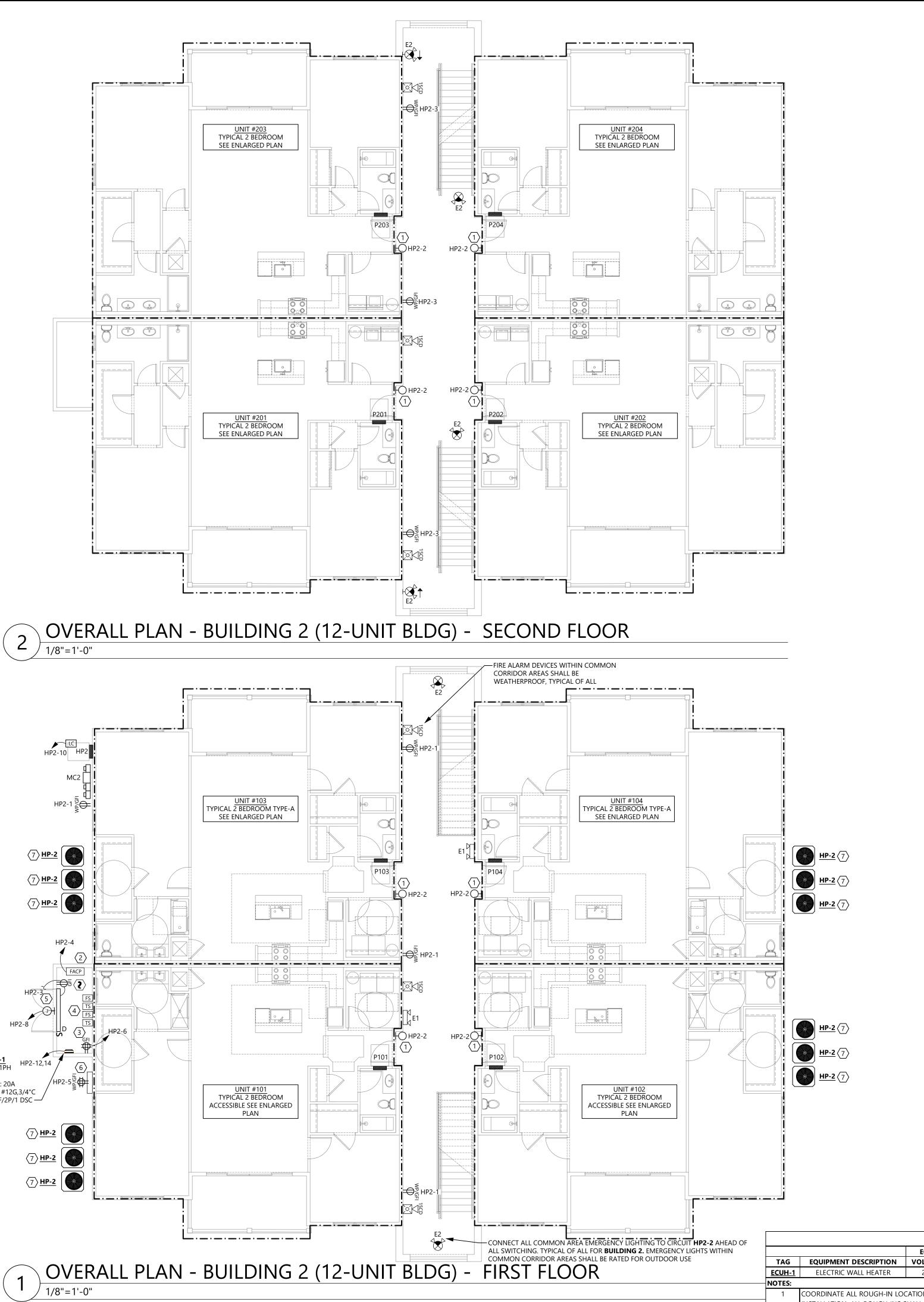
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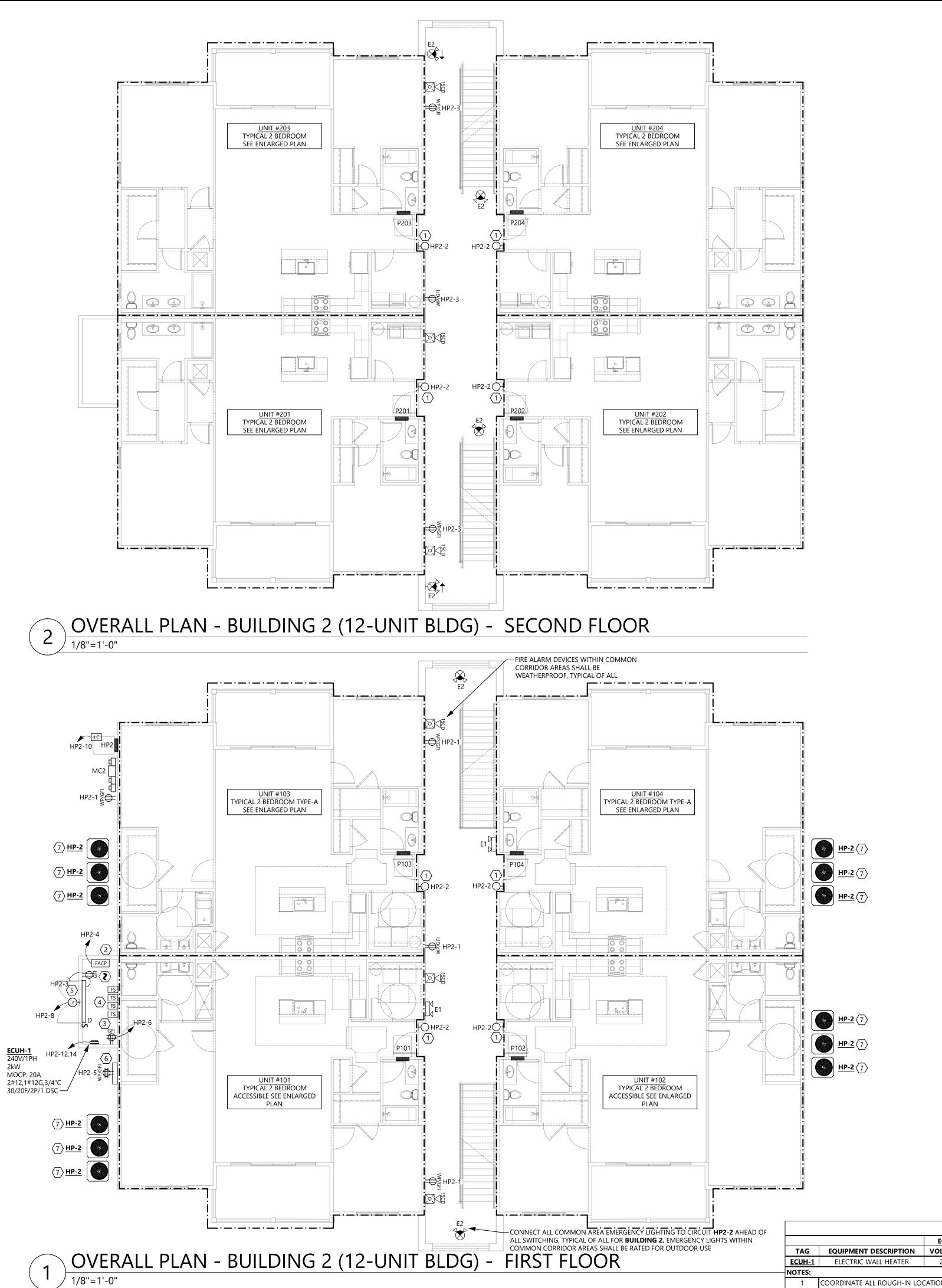
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SHEET #: E-22 WILDE #: 24-125







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TION ALL ROUGH-INS SHALL BE REVIEWED A

APPROVED BY MECHANICAL CONTRACTO

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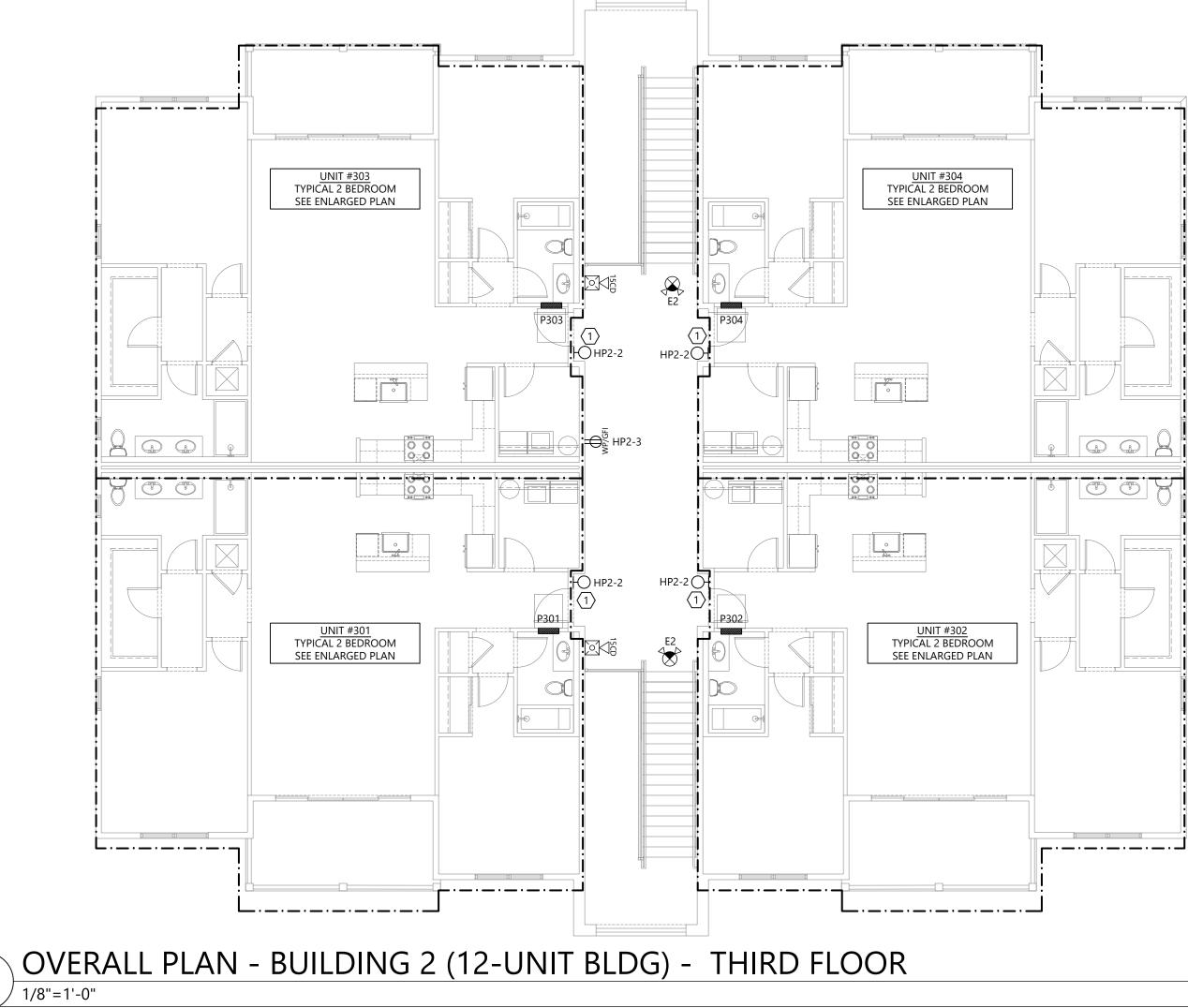
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Wilde Milde MECHANICAL, ELECTRICAL & P IS222 Kelly Park Cir Huntersville, NC (704) 439-7038 NC Firm License No. P-2	LUMBING
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DWG INFO : DWG DECRIPTION :	
OVERALL ELECTRIC, FIRST & SECOND FL BUILDING 2	AL PLAN -
E-23	3

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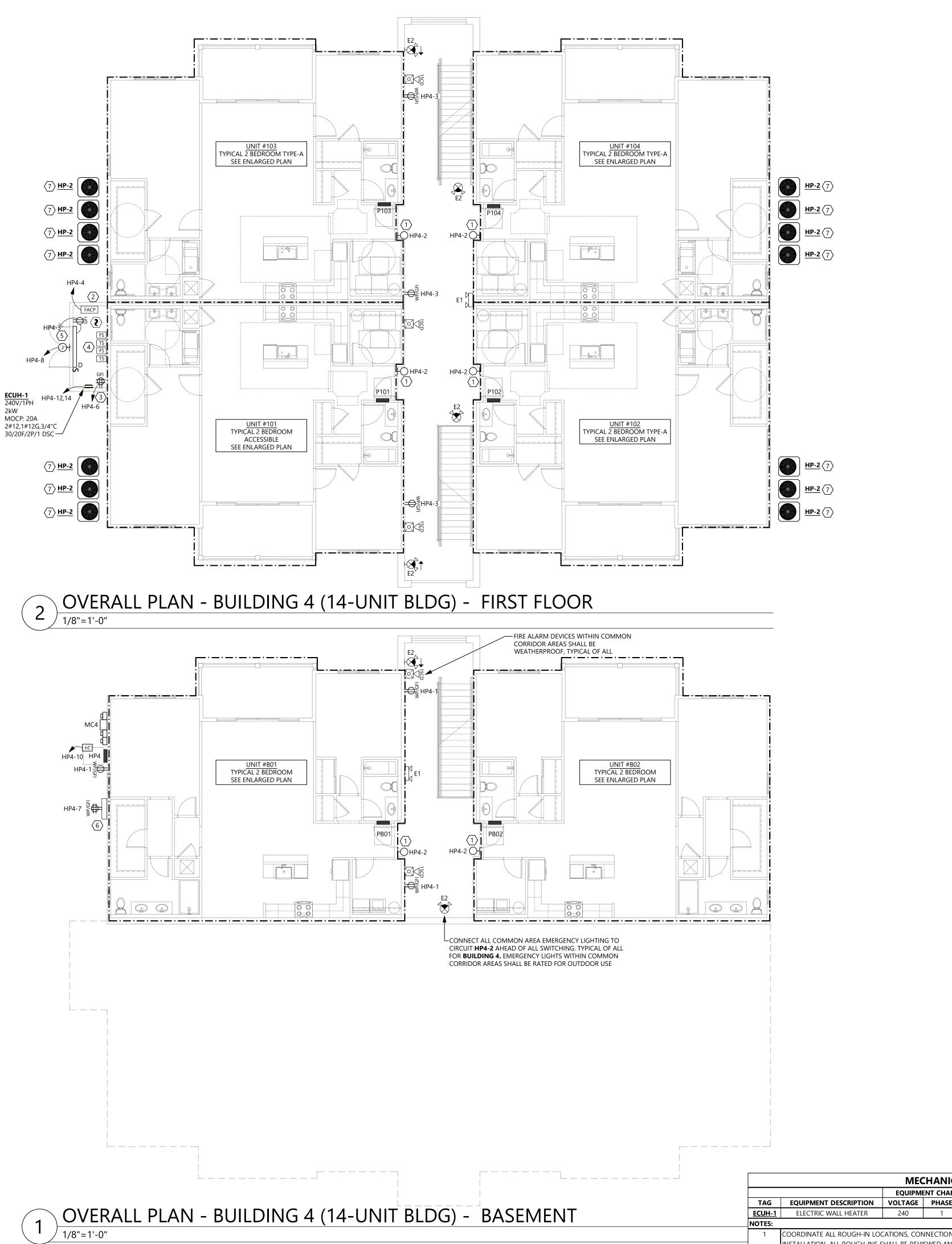
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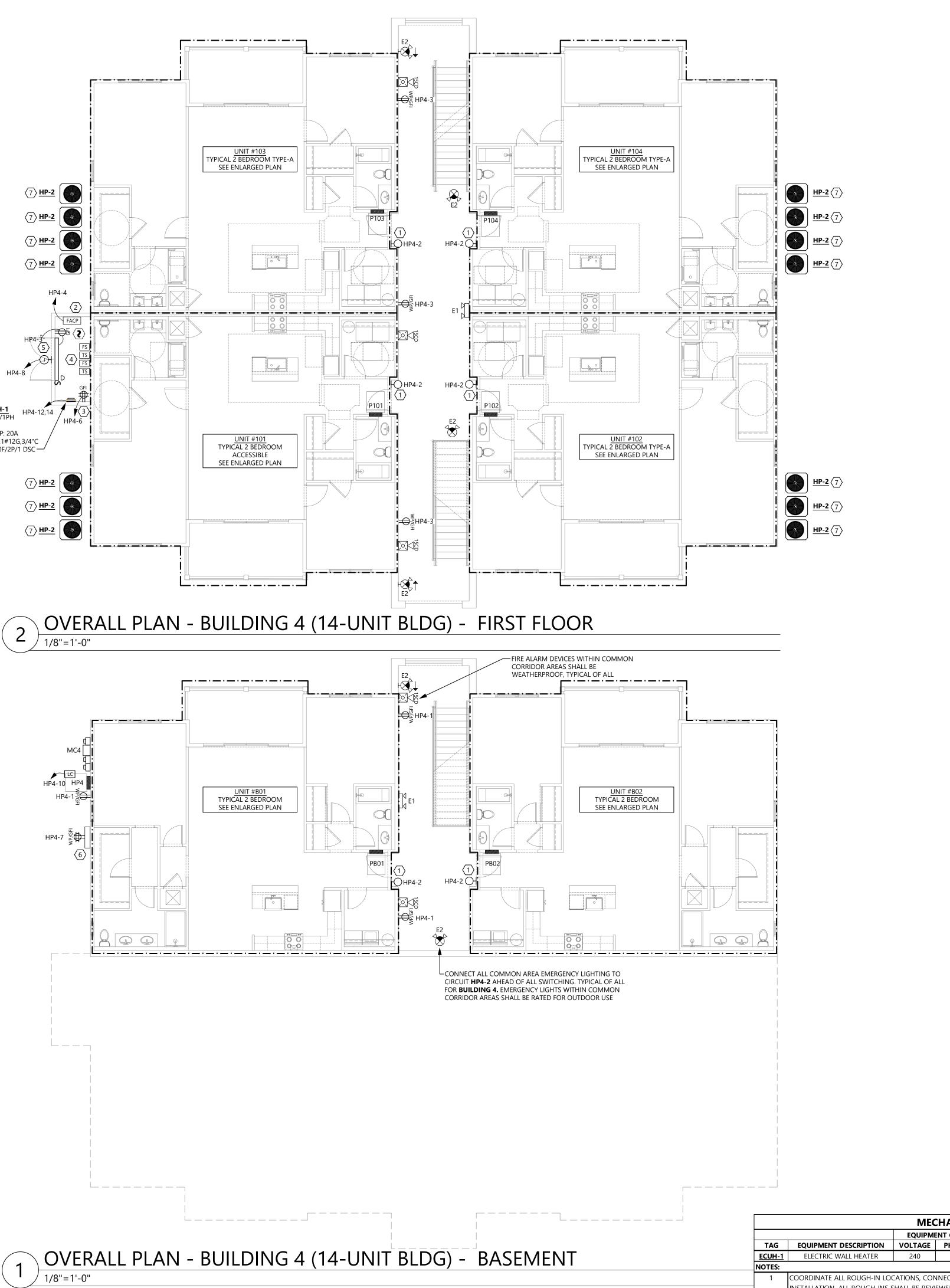
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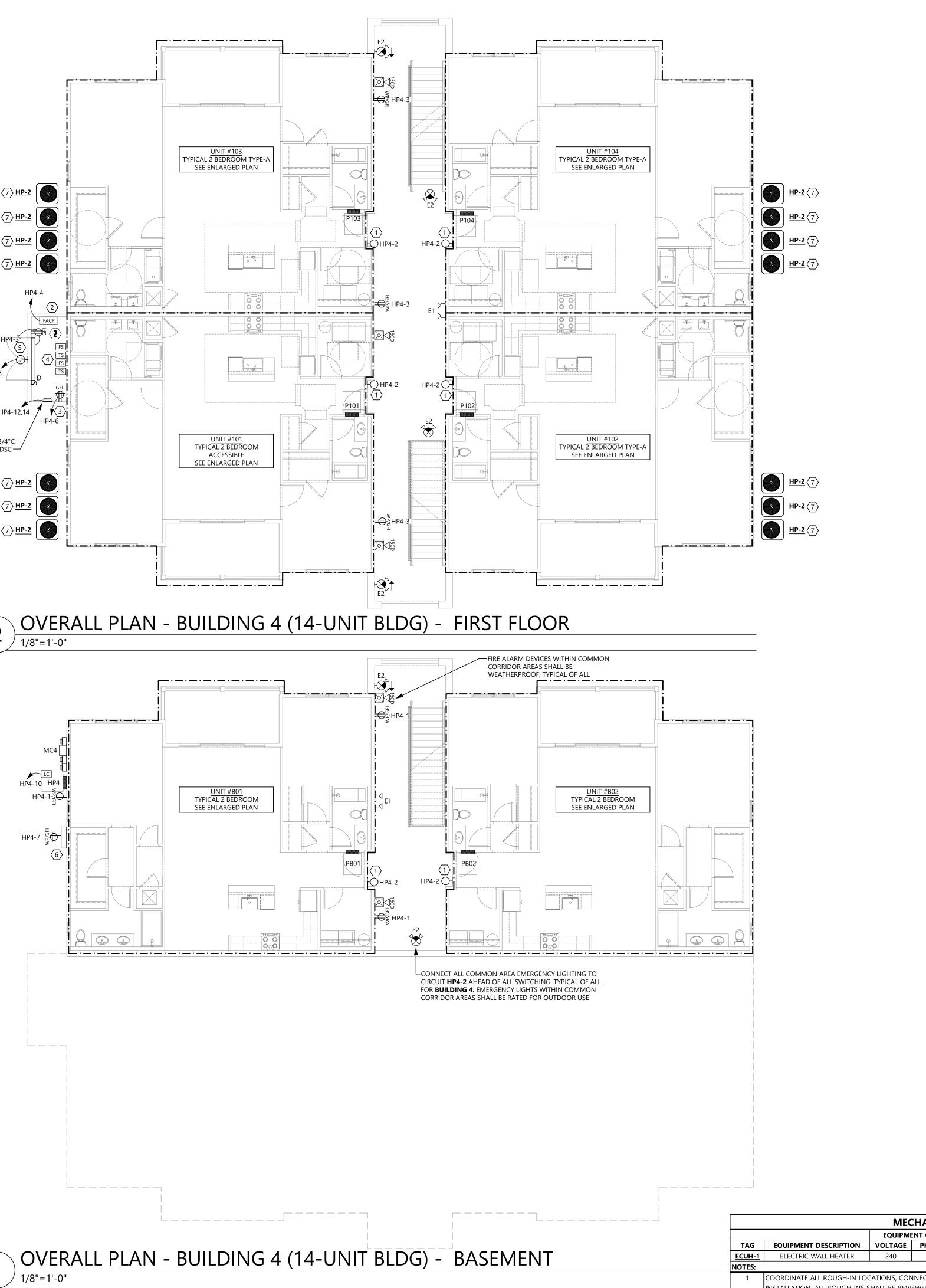
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GENERAL NOTES:

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- B. ALL CONDUIT SHALL BE CONCEALED BEHIND WALLS AND ABOVE CEILINGS. NO EXPOSED CONDUIT PERMITTED.
- C. MC CABLE SHALL NOT BE EXPOSED. CIRCUITS NOT CONCEALED BY CEILINGS SHALL BE RUN IN CONDUIT. CIRCUITS INSTALLED BEHIND HARD CEILINGS SHALL BE IN CONDUIT. ALL WORK IN ELECTRICAL ROOMS SHALL BE IN CONDUIT.
- D. LABEL ALL RECEPTACLES WITH CIRCUIT AND PANEL INFORMATION.
- E. PROVIDE PLASTIC BUSHINGS ON CONDUIT ENDS FOR ALL CONDUITS STUBBED ABOVE CEILING.
- F. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATION WITH MECHANICAL CONTRACTOR AND NEW DUCTWORK PRIOR TO ROUGH-IN. RELOCATION OF DUCTWORK FOR CONFLICT WITH NEW LIGHTING WILL BE AT EXPENSE OF CONTRACTOR.
- G. PROVIDE 90 MINUTE BATTERY BACKUP FOR ALL EMERGENCY FIXTURES SHOWN ON THIS PLAN. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING.
- H. COORDINATE ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTION LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS AND APPROVED MECHANICAL SUBMITTALS PRIOR TO ORDERING AND INSTALLATION.
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- J. SMOKE/HEAT DETECTORS SHALL NOT BE LOCATED WITHIN 3' OF MECHANICAL AIR TERMINALS AND DIFFUSERS.
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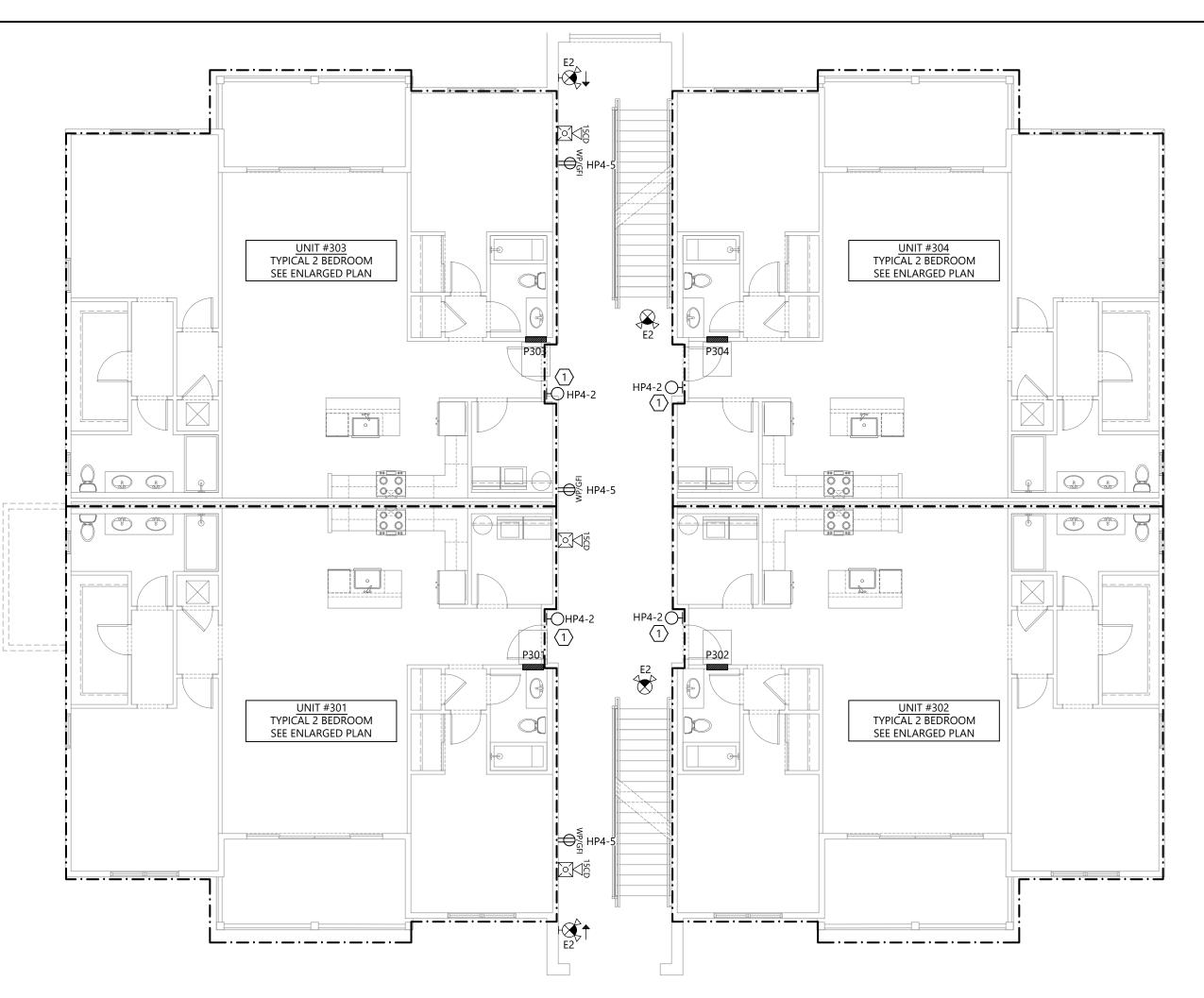
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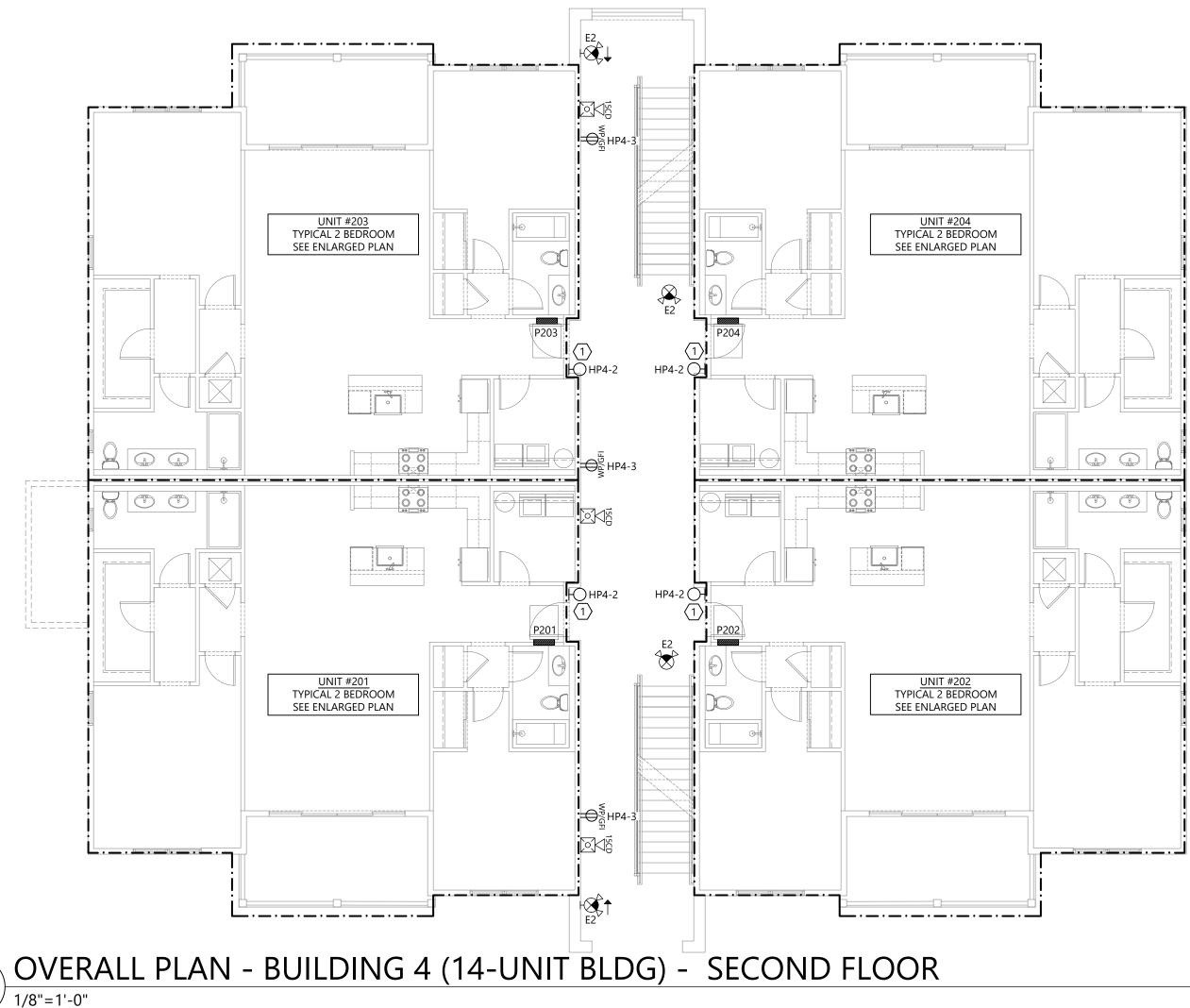
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COORDINATE ALL ROUGH-IN LOCATIONS, CONNECTION TYPES, BREAKER SIZES, ETC. WITH APPROVED MECHANICAL EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN AND ALLATION. ALL ROUGH-INS SHALL BE REVIEWED AND APPROVED BY MECHANICAL CONTRACTOF







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OVERALL PLAN - BUILDING 4 (14-UNIT BLDG) - THIRD FLOOR

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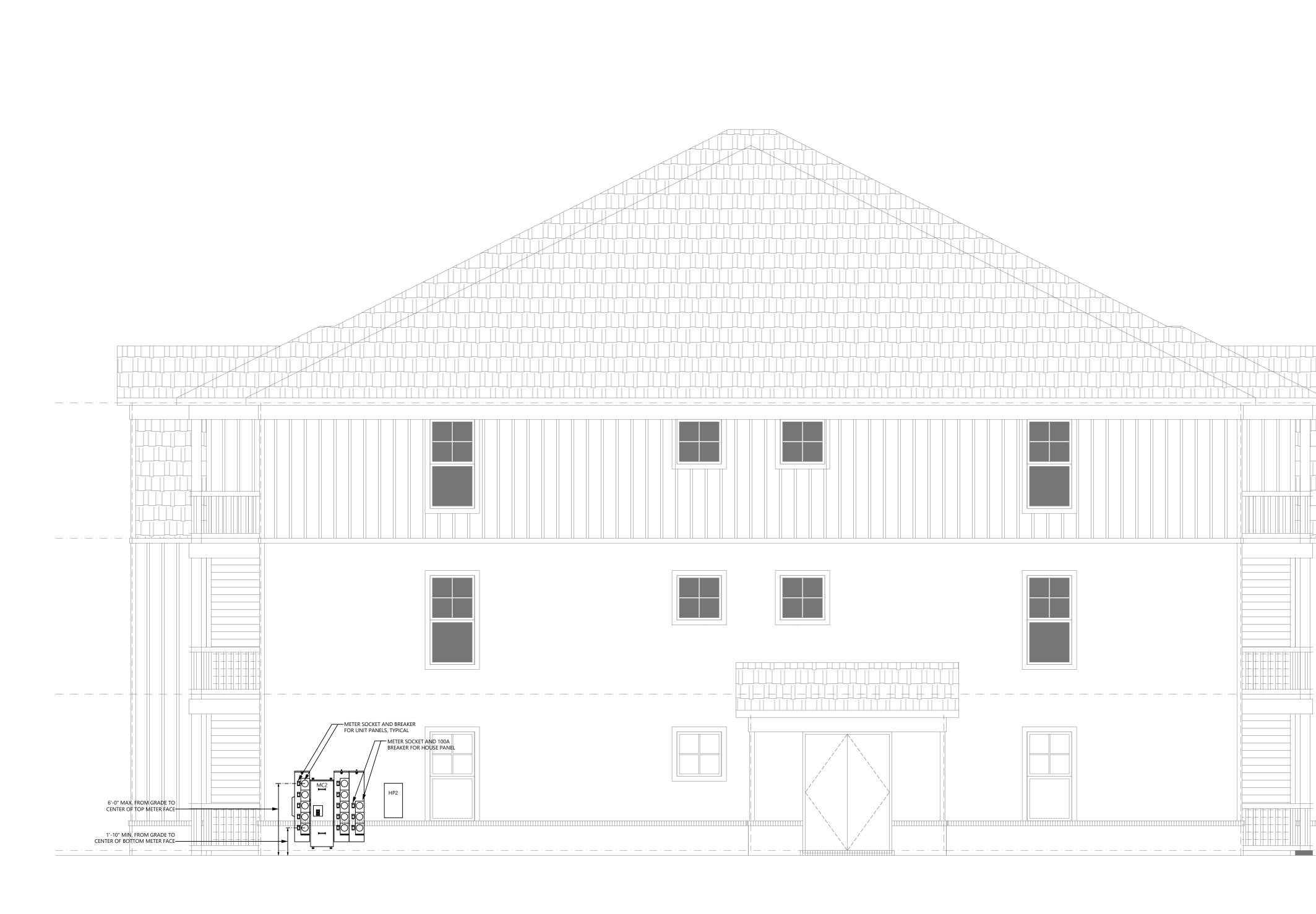
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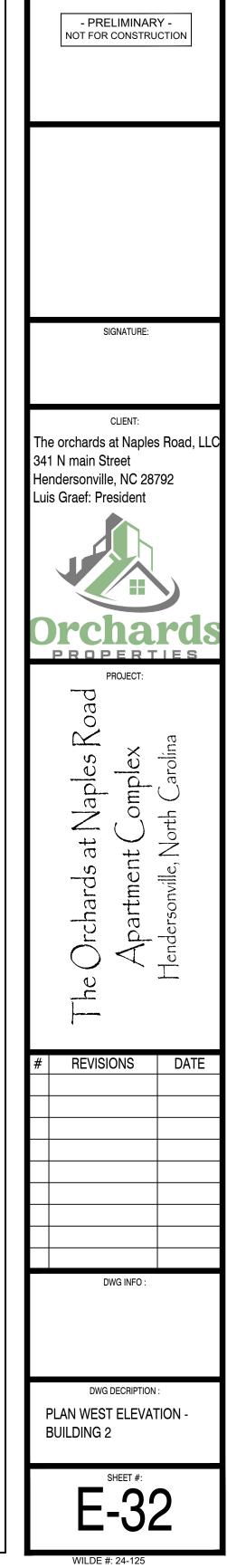
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PLAN WEST ELEVATION - BUILDING 2 (12-UNIT BUILDING) 1



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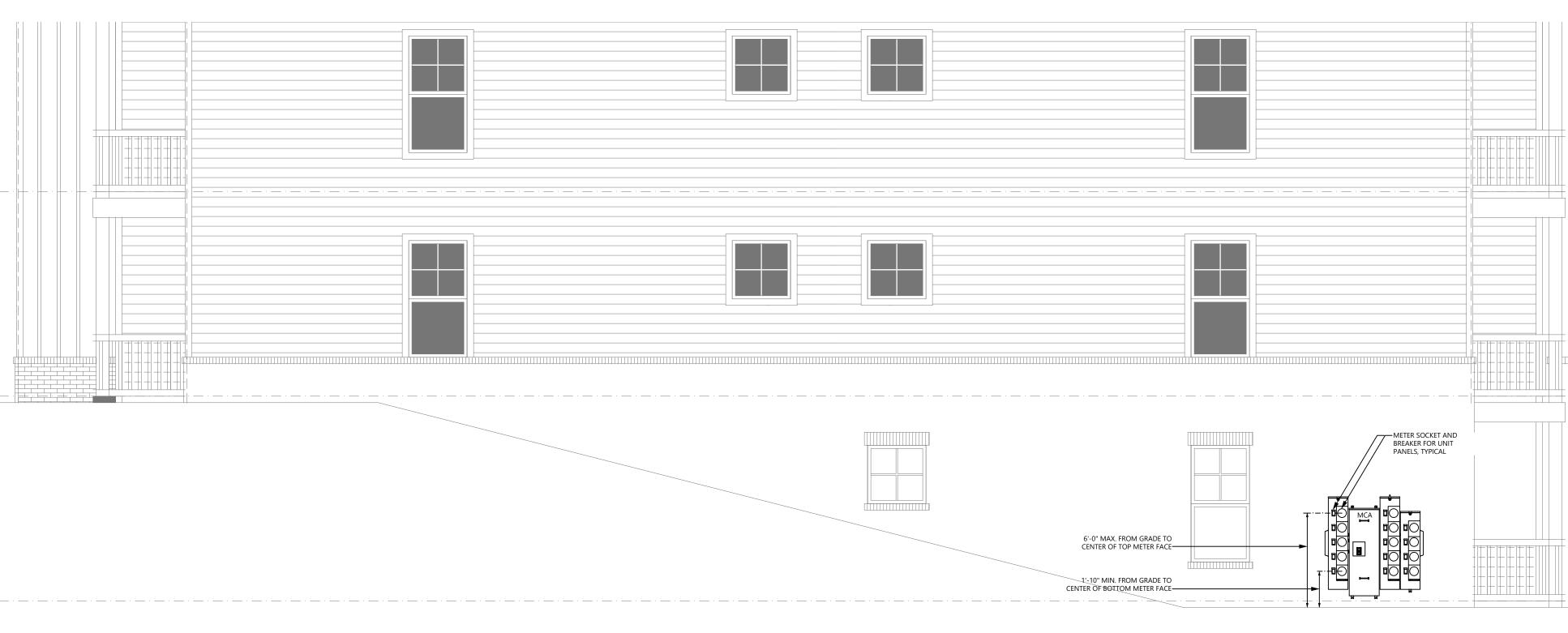




PLAN WEST ELEVATION - BUILDING 4 (14-UNIT BUILDING) 1



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2 PARTIAL PLAN WEST ELEVATION - BUILDINGS 5 & 7 (28-UNIT BUILDINGS)

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	BUILDINGS 5 & 7 E-35

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TYPICAL PANEL SCHEDULE FOR **1 BEDROOM** UNITS

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EF-1 BATHROOM EXHAUST FAN 120 1 0.05 - - 2#12,1#12G,3/4"C MOTOR SNAP SWITCH NOTES: - - - - 2#12,1#12G,3/4"C MOTOR SNAP SWITCH					_				-	-	11.4				_				┞						
NOTES:					_					-	-				60			'	╞						
			ATHRO	om exhaust fan	12	υ	1	().05	-	-	-	2#12,1#12G,3	/4"C		MOTOR	SNAP SWITC	<u>.H</u>	L						
1 COORDINATE ALL ROUGH-IN LOCATIONS, CONNECTION TYPES, BREAKER SIZES, ETC. WITH APPROVED MECHANICAL EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN AND					_					_			_						_						

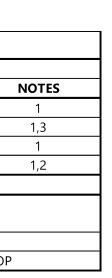
INSTALLATION. ALL ROUGH-INS SHALL BE REVIEWED AND APPROVED BY MECHANICAL CONTRACTOR.

FAN POWERED VIA LOCAL LIGHTING CIRCUIT. CONNECT TO SWITCH SHOWN ON ENLARGED UNIT PLANS 2 3 WIRE SIZE VARIES BASED ON DISTANCE FROM UNIT PANEL TO EXTERIOR HEAT PUMP. REFER TO OVERALL PLANS AND SIZE EACH UNIT HEAT PUMP TO ACCOUNT FOR VOLTAGE DROP

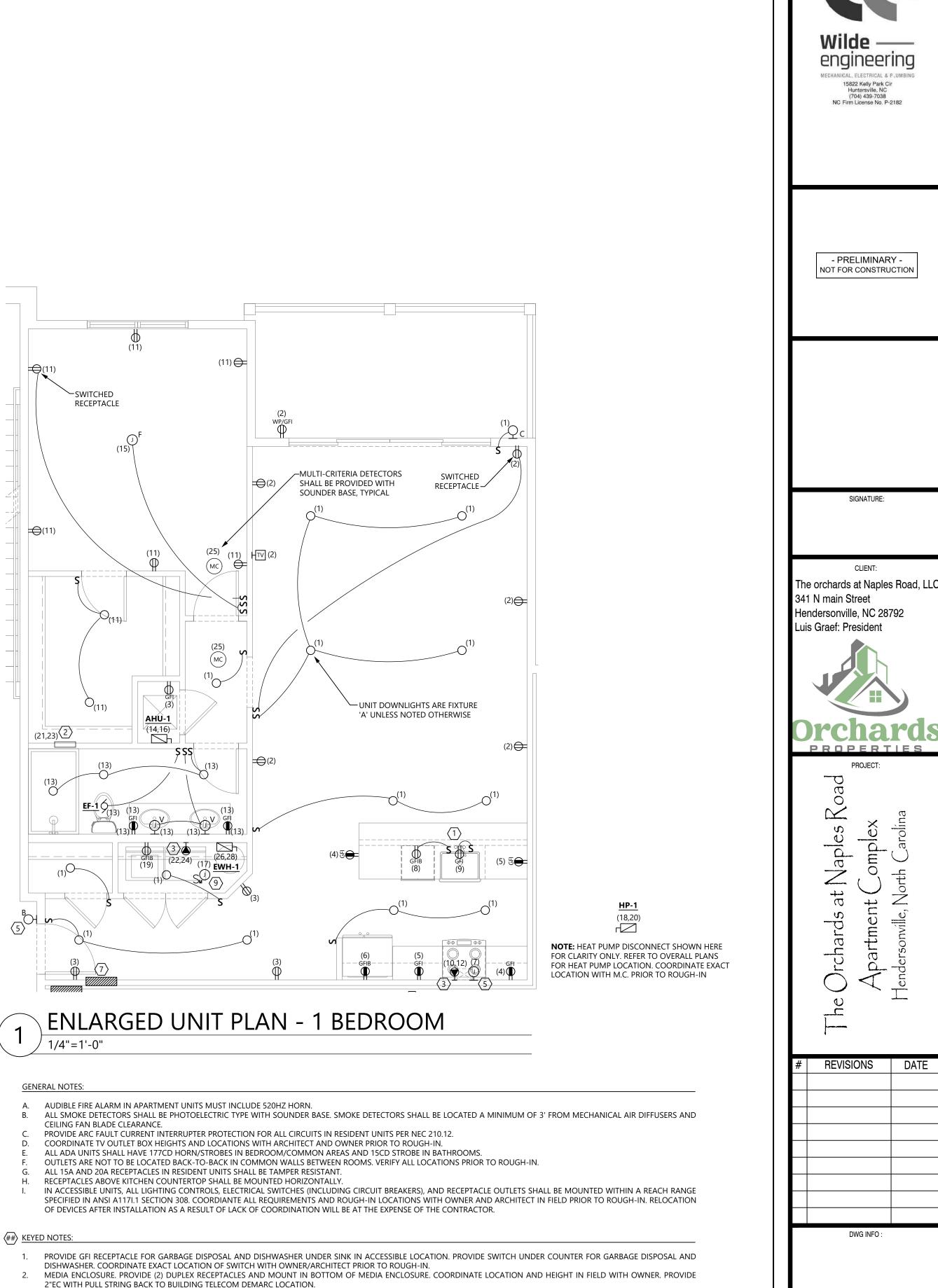
Y	P	C	A	L

LOAD SUMMARY FOR **1 BEDROOM** & **1 BEDROOM TYPE-A** UNITS

-L): 240	Volts	Proj	ect Name:	Naples Road Apartments		
se: 1	1	-	Project #:	24-125		
ea: 1094	Sq Ft		By:	Matt Lewis		
·			Date:	3/13/2025		
AD	kVA	QTY	kVA	NOTES		
bad	3.28	1	3.28	3 VA/SF		
e Circuits	3.00	1	3.00	(2) Dedicated 20A Ckts (w/	GFCI-P)	
	1.50	1	1.50	Dedicated 20A Ckt		
	8.00	1	8.00			
	5.00	1	5.00			
(240V)	3.63	1	3.63	Enter quantity for only the la	propert of th	
(240V)	2.19	0	0.00	following: "A/C and Cooling"	-	
(240V)	2.00	0	0.00	strip heat), "Electric Space		
at (240V)	0.00	0	0.00	Thermal & Other Heating".	. ioat , 0i	
er (240V)	0.00	0	0.00			
(240V)	9.60	1	9.60			
(120V)	1.50	0	0.00			
	0.80	1	0.80	(1) 20A Ckt for Dishwasher		
	1.00	1	1.00	(1) 20A Ckt for Dishwasher	& Disposa	al
	1.50	1	1.50			
	0.80	1	0.80	Examples of fastened in pla		
	0.00	0	0.00	compactors, furnace motors		
	0.00	0	0.00	pumps, etc. Add these app	liances in	dividually
	0.00	0	0.00	where applicable.		
	0.00	0	0.00			
TOTAL CONNECT	ED LOAD	FOR UNIT	38.11	kVA		
MAND LOAD (PH	ASE)			DEMAND LOAD (NEUT	RAL)	
%	10.00		-	Small Appliance, Laundry	7.78	
)%	9.7928			VA @ 100%		kVA
00%	3.63			A to 120 kVA @ 35%	1.67	
100%	1	kVA		<va 25%<="" @="" td=""><td>0.00</td><td></td></va>	0.00	
5%		kVA	-	g L-N Loads @ 100%	4.10	
t @ 65%		kVA	Dryer Loa	-		kVA
t @ 40%	1	kVA	Range Loa	-	4.48	
Other Heating	0.00	kVA	Unbalance	ed load > 200A @ 70%	0.00	kVA
	23.42	kVΔ			16.75	kV∆
LOAD (PHASE)		AMPS	TOTAL D	EMAND LOAD (NEUTRAL)		AMPS
A general lighting o	circuits (w/	AFCI-P) =	2	AMP RATING OF THE GEN	IERAL LIG	GHTING (
OR	- (/		RECEPTACLE CIRCUIT(S)		
A general lighting o	circuits (w/	AFCI-P) =	2	INDICATED IN THE PANEL		
	- \	/				



	ENLARGED UNIT PLAN SYMBOLS LIST
₽v	DOUBLE GANG, RECESSED JUNCTION BOX FOR VANITY LIGHT FIXTURE. FIXTURE TO BE SELECTED BY OWNER. CONNECT TO CIRCUIT AND SWITCH SHOWN ON PLANS.
MC	MULTI CRITERIA DETECTOR. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES
Ś	MOTOR CONNECTION FOR BATHROOM EXHAUST FAN. PROVIDE DOUBLE GANG JUNCTION BOX AND 20A MOTOR RATED SWITCH FOR DISCONNECT. CONNECT TO RESTROOM LIGHT CIRCUIT AND CONTROL VIA SWITCH SHOWN ON PLANS
0	6" SURFACE MOUNTED DOWNLIGHT. 1,200 LUMENS. 3000K, 120V. BASED ON HALO 'SMD6'. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES
◯ _F	CEILING FAN RATED JUNCTION BOX, CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES. FAN TO BE SELECTED BY OWNER
B	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
₿s	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL TURN OFF SWITCH (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
<u>o</u>	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL VISUAL/AUDIBLE DEVICE (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
	FER TO OVERALL SYMBOL LEGEND ON COVER SHEET FOR SYMBOLS WWN ABOVE



- 3.
- OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR.
- 6
- WITH ADJACENT UNIT SHALL NOT BE INSTALLED BACK TO BACK. COORDINATE WITH ARCHITECTURAL PLANS FOR UNITS THAT ARE REQUIRED TO HAVE HEARING IMPAIRED DEVICES.

SPECIAL RECEPTACLE. EXACT TYPE, SIZE, ETC. SHALL BE COORDINATED WITH EQUIPMENT MANUFACTURER PRIOR TO ORDERING DEVICE. 4. IN ACCESSIBLE UNITS, CONTRACTOR SHALL PROVIDE A REMOTE RANGE EXHAUST HOOD/LIGHT SWITCH, MOUNTED WITH AN ACCESSIBLE REACH RANGE. COORDINATE ALL REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK

DWG DECRIPTION :

SHEET #

WILDE #: 24-125

ENLARGED UNIT PLAN -

1 BEDROOM

RANGE HOOD POWER. COORDINATE EXACT LOCATION, REQUIREMENTS, ETC. WITH MANUFACTURER PRIOR TO ORDERING DEVICES AND ROUGH-IN. EXTERIOR FIXTURE TO BE POWERED VIA HOUSE PANEL, SEE OVERALL PLAN FOR CIRCUIT DESIGNATION. FIXTURE TO BE CONTROLLED VIA EXTERIOR LIGHTING CONTACTOR, TIME CLOCK, AND PHOTOCELL. SEE DETAIL AND OVERALL PLAN FOR MORE INFORMATION. TYPICAL UNIT PANEL LOCATION. SEE OVERALL PLANS FOR PANEL DESIGNATION FOR EACH UNIT AND POWER RISER DIAGRAM FOR PANEL/FEEDER SIZE. PANELS THAT SHARE WALL

9. JUNCTION BOX, MOTOR SNAP SWITCH AND POWER FOR DRYER BOOSTER FAN. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH M.C. PRIOR TO ROUGH-IN.

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TYPICAL PANEL SCHEDULE FOR **1 BEDROOM TYPE-A** UNITS

			٢	IEW	PAN	EL:	1-B	DRN	/ TYF	PE-A					
			<u>VOLTAGE:</u> PHASE / WIRE: <u>AMPS:</u> AIC:	120/ 1φ/ 100 10,0	3W							<u>MOUNTING:</u> MAIN:	E FLUSH		
load Kva	WIRE	TRIP	LOAD NAME			رين*	L1		L2	* بل	LOAD NAME		TRIP	WIRE	LOAD KVA
0.00	12	20	LIGHTING			1			/	2	REC - LIVING R	OOM	20	12	0.00
0.00	12	20	REC - GENERAL			3	⊨ᡮ-	<u> </u>	++	4	REC - KITCHEN		20	12	0.00
0.00	12	20	REC - KITCHEN			5	—	<u> </u>	++-	6	REFRIGERATOR		20	12	0.00
0.00	12	20	RANGE HOOD			7	$\vdash \uparrow$	 	++	8	DISHWASHER (I		20	12	0.00
0.00	12	20	DISPOSAL			9	•	-	+	10	RANGE		50	6	0.00
0.00	12	20	REC - BEDROOM			11	$\vdash \uparrow$			12	KANGE		50	6	0.00
0.00	12	20	REC - BATHROOM			13			+	14	AIR HANDLER		20	12	0.00
0.00	12	20	BEDROOM FAN			15				16			20	12	0.00
0.00	12	20	DRYER BOOSTER FAN			17		<u> </u>	$+ \uparrow$	18	HEAT PUMP		15	8	0.00
0.00	12	20	WASHER (NOTE #7)			19	FT			20			ļ.,	8	0.00
0.00	12	20	TELECOM BOX			21		+	$+ \mathbf{r}$	22	DRYER		30	10	0.00
0.00	12	20	TELECOM BOX	0)		23	FF			24				10	0.00
0.00	12	20	FIRE ALARM (NOTE #)	8)		25				26	WATER HEATER	R	50	6	0.00
0.00		20 20	SPARE			27 29		<u> </u>	±‡-	28 30	SPARE		20	6	0.00
0.00		20				31		<u> </u>		32			20		0.00
	\sim					33			+*-	34					
				-		35		<u> </u>	+ +	36					
						37		<u> </u>	++-	38		\rightarrow			
	/					39	$\vdash \leftarrow$		++	40			\vdash	\square	
						41		+	++-	42					
0.0			· · · · · · · · · · · · · · · · · · ·				s		ALS						0.0
		LO	AD (kVA)	Conn.	D.F.	Dmd.			Т	OTAL LO	AD PER PHASE				
ŀ	LIGHTS			0.0	1.25	0.0				1	INECTED			#10)	
ł	HEATIN			0.0	1.00		L1=	0.0	kVA) AMPS				
ł				0.0	1.00 1.00	0.0	L2=	0.0	kVA	0.0) AMPS				
	MOTOR			0.0	1.00	0.0				L DF	MAND		(NOTE #	#10)	
ŀ	KITCHE			0.0	0.65		L1-	0.0	kVA	1) AMPS		1	1	
	REC. (1st	t 10kVA)		0.0	1.00		L2-	0.0	kVA	0.0) AMPS				
H	REC. (>1			0.0	0.50	0.0							4		
ŀ	WATER	HEATER	R	0.0	1.00	0.0				MAND AT				#10)	
ŀ	MISC. SPARE			0.0 0.0	1.00 1.00	Control Bar	L1= L2=	0.0 0.0	kVA kVA) AMPS) AMPS				
	JFARE			0.0	1.00	0.0	LZ=	0.0	KVA	0.0	MINIES				
										1			1		
NOTES:															
		r frami	E SHALL BE AS REQ'D P	ER PANEL	AIC RATIN	IG.									
			RATED - SERIES RATIN												
			ICL GND AND NEUTRA												
			PANEL AND BRKR LUG												
			D DOOR-IN-DOOR WIT DIRECTORY FRAME.		DOOK LO	CK.									
			A GFI (6mA-PERSONNI	EL) BRKR (250' MAX)										
			LE LOCK-ON DEVICE. B												
		-	ARC FAULT CIRCUIT INT							TS.					
10.	SEE LOA	D SUM	MARY TABLE ON THIS S	SHEET FOR	CONNEC	ted and	DEMAN	d loads	5.						
				Μ	ECHA	NICAL	EOU	IPMF				HEDULE - 1 B	EDRO	OM U	NITS
				1	JIPMENT										DISCON
TAG	EC		NT DESCRIPTION	VOLT				W	FLA	MC	A MOCP	FEEDER		SIZ	
				240		1				16	8 20	3#12 1#12G 3	<i>\\</i> \"C	30	

240 60 2 50 1 <u>EWH-1</u> ELECTRIC WATER HEATER 1 9.60 50 3#6,1#10G,1"C MOTOR SNAP SWITCH 120 <u>EF-1</u> BATHROOM EXHAUST FAN 0.05 2#12,1#12G,3/4"C 1 NOTES: COORDINATE ALL ROUGH-IN LOCATIONS, CONNECTION TYPES, BREAKER SIZES, ETC. WITH APPROVED MECHANICAL EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN AND

11.4 15

NOTE 3

INSTALLATION. ALL ROUGH-INS SHALL BE REVIEWED AND APPROVED BY MECHANICAL CONTRACTOR. 2 FAN POWERED VIA LOCAL LIGHTING CIRCUIT. CONNECT TO SWITCH SHOWN ON ENLARGED UNIT PLANS

<u>HP-1</u>

1 BEDROOM HEAT PUMP

240

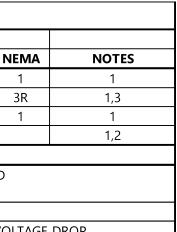
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3 WIRE SIZE VARIES BASED ON DISTANCE FROM UNIT PANEL TO EXTERIOR HEAT PUMP. REFER TO OVERALL PLANS AND SIZE EACH UNIT HEAT PUMP TO ACCOUNT FOR VOLTAGE DROP

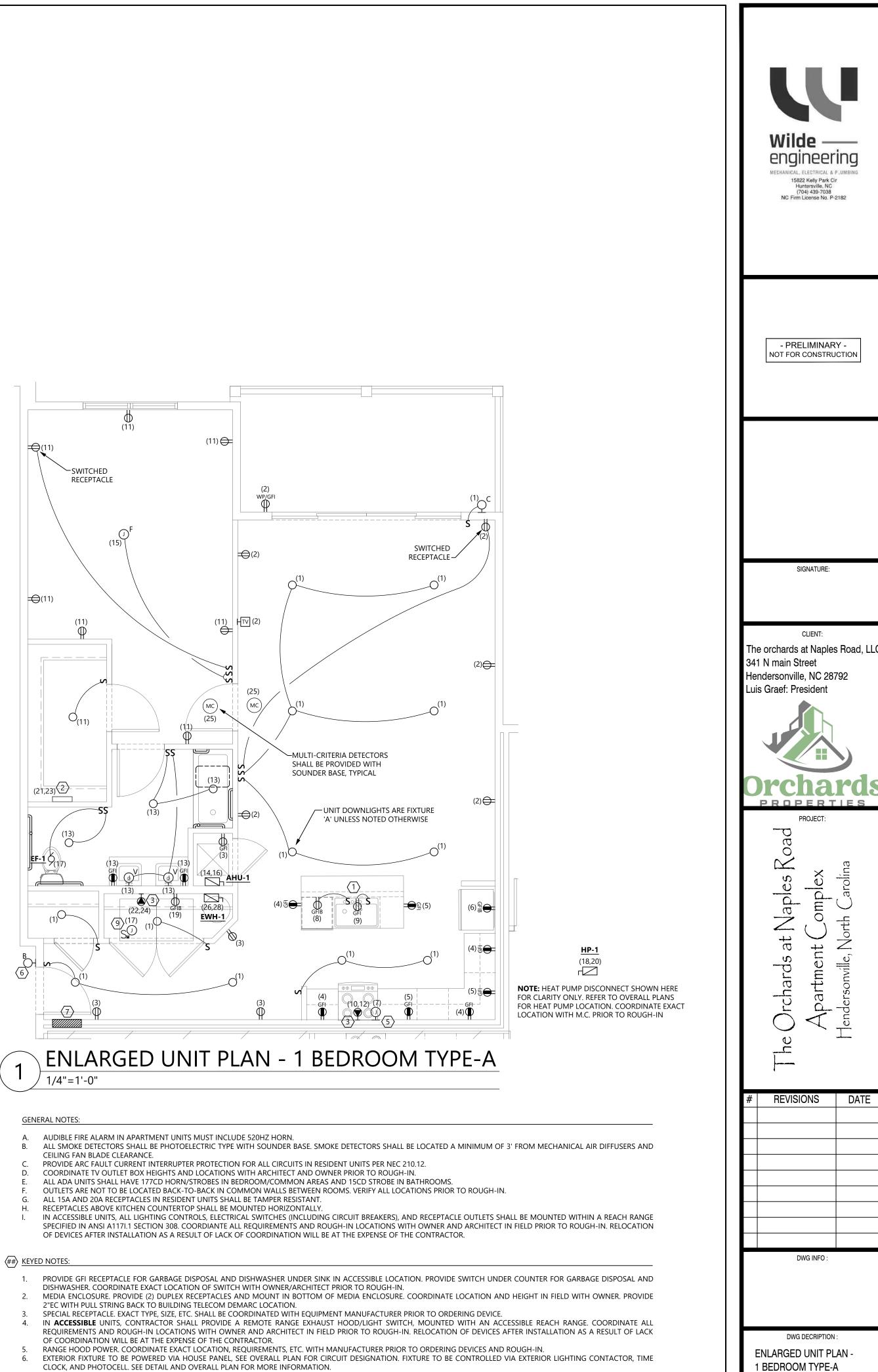
30 2 15

TYPICAL LOAD SUMMARY FOR **1 BEDROOM** & **1 BEDROOM TYPE-A** UNITS

oltage (L-L): 240	Volts	Pro	ect Name:	Naples Road Apartments			
Phase: 1	1		Project #:	24-125			
Floor Area: 1094	Sq Ft		By:	Matt Lewis			
			Date:	3/13/2025			
LOAD	kVA	QTY	kVA	NOTES			
ighting Load	3.28	1	3.28	3 VA/SF			
Appliance Circuits	3.00	1	3.00	(2) Dedicated 20A Ckts (w/ G	FCI-P)		
Sircuit	1.50	1	1.50	Dedicated 20A Ckt	,		
ange	8.00	1	8.00				
lryer	5.00	1	5.00				
Cooling (240V)	3.63	1	3.63	Enter months for only the lor	anat of th		
ressor (240V)	2.19	0	0.00	Enter quantity for only the lar	•		
leat (240V)	2.00	0	0.00	following: "A/C and Cooling",			
pace Heat (240V)	0.00	0	0.00	strip heat), "Electric Space H	ieat, or		
mal / Other (240V)	0.00	0	0.00	Thermal & Other Heating".			
ater (240V)	9.60	1	9.60				
ater (120V)	1.50	0	0.00				
er	0.80	1	0.80	(1) 20A Ckt for Dishwasher &	Disposa	d	
	1.00	1	1.00	(1) 20A Ckt for Dishwasher &	Disposa	d	
9	1.50	1	1.50				
or	0.80	1	0.80	Examples of fastened in plac	e applian	ces are	
	0.00	0	0.00	compactors, furnace motors,	attic fans	s, water	
	0.00	0	0.00	pumps, etc. Add these appli	ances in	dividually	
	0.00	0	0.00	where applicable.			
	0.00	0	0.00				
TOTAL CONNECT	ED LOAD	FOR UNIT	38.11	kVA			
DEMAND LOAD (PH	ASE)			DEMAND LOAD (NEUTR	RAL)		
A @ 100%	10.00	kVA	Gen Ltg, S	Small Appliance, Laundry	7.78		
ning @ 40%	9.7928	kVA	1st 3 k	VA @ 100%	3.00	kVA	
oling @ 100%	3.63	kVA	> 3 kV	A to 120 kVA @ 35%	1.67	kVA	
ressor @ 100%	0.00	kVA	> 120 I	<va 25%<="" @="" td=""><td>0.00</td><td>kVA</td></va>	0.00	kVA	
Heat @ 65%	0.00	kVA	Remaining	g L-N Loads @ 100%	4.10	kVA	
pace Heat @ 65%	0.00	kVA	Dryer Loa	d @ 70%	3.50	kVA	
pace Heat @ 40%	0.00	kVA		ad @ 70%	4.48	kVA	
hermal & Other Heating	0.00	kVA	Unbalance	ed load > 200A @ 70%	0.00	kVA	
	23.42	kVΔ			16.75	kVΔ	
DEMAND LOAD (PHASE)		AMPS	TOTAL D	EMAND LOAD (NEUTRAL)		AMPS	
tity of 15A general lighting o OR	circuits (w/	AFCI-P) =					
tity of 20A general lighting of	circuits (w/	AFCI-P) =	2	INDICATED IN THE PANEL S			



	ENLARGED UNIT PLAN SYMBOLS LIST
₽v	DOUBLE GANG, RECESSED JUNCTION BOX FOR VANITY LIGHT FIXTURE. FIXTURE TO BE SELECTED BY OWNER. CONNECT TO CIRCUIT AND SWITCH SHOWN ON PLANS.
MC	MULTI CRITERIA DETECTOR. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES
Ś	MOTOR CONNECTION FOR BATHROOM EXHAUST FAN. PROVIDE DOUBLE GANG JUNCTION BOX AND 20A MOTOR RATED SWITCH FOR DISCONNECT. CONNECT TO RESTROOM LIGHT CIRCUIT AND CONTROL VIA SWITCH SHOWN ON PLANS
0	6" SURFACE MOUNTED DOWNLIGHT. 1,200 LUMENS. 3000K, 120V. BASED ON HALO 'SMD6'. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES
◯ _F	CEILING FAN RATED JUNCTION BOX, CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES. FAN TO BE SELECTED BY OWNER
B	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
₿s	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL TURN OFF SWITCH (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
<u></u>	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL VISUAL/AUDIBLE DEVICE (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
	FER TO OVERALL SYMBOL LEGEND ON COVER SHEET FOR SYMBOLS WWN ABOVE



- TYPICAL UNIT PANEL LOCATION. SEE OVERALL PLANS FOR PANEL DESIGNATION FOR EACH UNIT AND POWER RISER DIAGRAM FOR PANEL/FEEDER SIZE. PANELS THAT SHARE WALL
- WITH ADJACENT UNIT SHALL NOT BE INSTALLED BACK TO BACK.

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COORDINATE WITH ARCHITECTURAL PLANS FOR UNITS THAT ARE REQUIRED TO HAVE HEARING IMPAIRED DEVICES. JUNCTION BOX, MOTOR SNAP SWITCH AND POWER FOR DRYER BOOSTER FAN. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH M.C. PRIOR TO ROUGH-IN.

SHEET #

TYPICAL PANEL SCHEDULE FOR **2 BEDROOM** UNITS

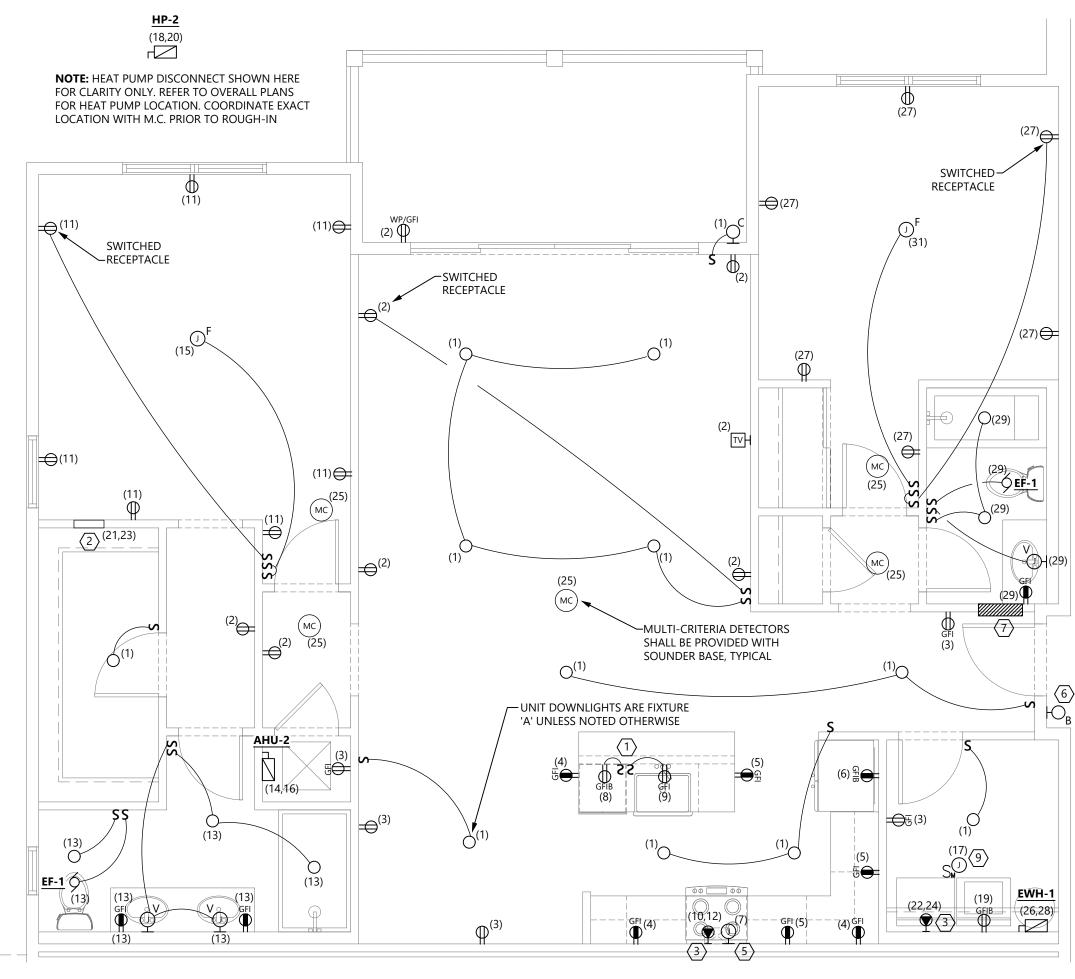
				NEW	PAN	EL:	2-B	DRN	Л							S	INGLE
			<u>VOLTAGE:</u> <u>PHASE / WIRE:</u> <u>AMPS:</u> <u>AIC:</u>	120/ 1φ/ 125 10,0	3W							<u>mounting:</u> flu <u>main:</u> lu		ILY			Va
LOAD KVA	NIRE	TR1P	LOAD NAME			لاريم	L1		L2	* تېن	LOAD NAME	~	RIP .	NIRE	LOAD KVA	Ge	eneral Li
0.00	12	20	LIGHTING			1	-		+-/		REC - LIVING RO			12	0.00) Small A
0.00	12	20	REC - GENERAL			3					REC - KITCHEN			12	0.00		aundry Ci lectric Ra
0.00	12	20	REC - KITCHEN			5	— •		+-/	6	REFRIGERATOR ((NOTE #7) 2	20	12	0.00		lothes Dr
0.00	12	20	RANGE HOOD			7			•	8	DISHWASHER (N	OTE #7) 2	20	12	0.00		/C and C
0.00	12	20	DISPOSAL			9	—		+ -	10	RANGE	5	50	6	0.00		P Compr Strip He
0.00	12	20	REC - MASTER BEDR			11			+ •	12				6	0.00	EI	lectric Sp
0.00	12	20	MASTER BATHROON			13			+	14	AIR HANDLER	2	25 H	10	0.00		lec Therr
0.00	12	20	FAN - MASTER BEDR			15				16				10	0.00		/ater Hea
0.00	12	20	DRYER BOOSTER FA	IN		17				18	HEAT PUMP		20	8	0.00		/ater Hea ishwashe
0.00	12	20	WASHER (NOTE #7) TELECOM BOX			19				20				8	0.00		isposal
0.00	12 12	20 20	TELECOM BOX			21 23				22 24	DRYER	3	30 —	10 10	0.00	M	icrowave
	12	20	FIRE ALARM (NOTE 3	#8)		23								10 6	0.00	Re	efrigerato
0.00	12	20	REC - BEDROOM #2			25				26 28	WATER HEATER	5	50 -	6	0.00		
0.00	12	20	BATHROOM #2			27			+		SPARE		20	0	0.00		
0.00	12	20	FAN - BEDROOM #2	i.		31					SPARE		20				
0.00	12	20	SPARE			33					SPARE		20				
		20	SPARE			35			+ •		SPARE		20				
		20	SPARE			37					SPARE		20			1.	+ 10 10/1
		20	SPARE			39					SPARE		20				st 10 kVA Remair
			SPARE			41	—				SPARE		20			A/	/C & Coc
0.0							SI		ALS						0.0		P Compr
		LOA	AD (kVA)	Conn.	D.F.	Dmd.				OTAL LOA	D PER PHASE						P Strip H
	LIGHTS			0.0	1.25	0.0				CON	NECTED	(NC	OTE #10))			lectric Sp lectric Sp
	HEATIN	G		0.0	1.00	0.0	L1=	0.0	kVA	0.0	AMPS	·					lectric Sp lectric Th
	COOLIN	G		0.0	1.00	0.0	L2=	0.0	kVA	0.0	AMPS						
	VENTILA			0.0	1.00												
	MOTOR			0.0	1.00					1	IAND	(NC	OTE #10))			
	KITCHE			0.0	0.65		L1-	0.0 0.0			AMPS AMPS						TOTAL I
	REC. (1st REC. (>1			0.0	0.50		L2-	0.0	KVA	0.0	AIVIPS						
	WATER			0.0	1.00				DE	MAND AT	125%	(NC	OTE #10))			Quan
	MISC.			0.0	1.00		L1=	0.0		1	AMPS	(110	JIE 10)	,			0
	SPARE			0.0	1.00		L2=		kVA	0.0	AMPS						Quan
				·												N	OTES:
																1.	Calcula
NOTES:	:																
			SHALL BE AS REQ'D			IG.											
			RATED - SERIES RATII														
		-	CL GND AND NEUTR	-													
			PANEL AND BRKR LUG D DOOR-IN-DOOR W														
			DIRECTORY FRAME.	IIII OOILK	DOOR LC	CR.											
			A GFI (6mA-PERSONN	NEL) BRKR (2	250' MAX)).											
			E LOCK-ON DEVICE.														
9.	PROVID	e afci (A	RC FAULT CIRCUIT IN	TERRUPTIN	G) BREAK	er for Al	L DWELL	ING UN		TS.							
10.	SEE LOA	D SUM	MARY TABLE ON THIS	SHEET FOR	CONNEC	TED AND	DEMAND) LOAD	S.								
				N/I	ГСНА	ΝΙζΔΙ	FOIII	РМ				IEDULE - 2 BED	ROO	MI	ΝΙΤς		
							_								DISCONNE		<u>н</u>
TAG	E/					CHARA	<u>LIERISI</u> K\		- FLA	MCA	моср	FEEDER	┝	SIZ		FUSE	
AHU-2		-	OM AIR HANDLER	240		1 1				24.9	25	3#10,1#10G,1"C		30		25	1
<u>HP-2</u>			OM AIR HANDLER	240		1	-		-	13.8		NOTE 3		30		23	3R
EWH-	-		C WATER HEATER	240		1	9.6	50	_	-	50	3#6,1#10G,1"C		60		50	1
<u>EF-1</u>	_		OM EXHAUST FAN	120		1	0.0		-	-	-	2#12,1#12G,3/4"C	: +		MOTOR SI		
NOTES:					I		2.0		1	1	- I	,,,,,,					
<u> </u>	-																

COORDINATE ALL ROUGH-IN LOCATIONS, CONNECTION TYPES, BREAKER SIZES, ETC. WITH APPROVED MECHANICAL EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN AND INSTALLATION. ALL ROUGH-INS SHALL BE REVIEWED AND APPROVED BY MECHANICAL CONTRACTOR.

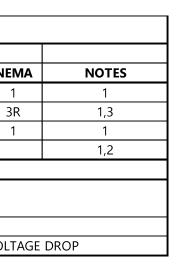
2 FAN POWERED VIA LOCAL LIGHTING CIRCUIT. CONNECT TO SWITCH SHOWN ON ENLARGED UNIT PLANS 3 WIRE SIZE VARIES BASED ON DISTANCE FROM UNIT PANEL TO EXTERIOR HEAT PUMP. REFER TO OVERALL PLANS AND SIZE EACH UNIT HEAT PUMP TO ACCOUNT FOR VOLTAGE DROP

TYPICAL LOAD SUMMARY FOR **2 BEDROOM, 2 BEDROOM TYPE-A, & 2 BEDROOM** ACCESSIBLE UNITS

	Volts	Proj		Naples Road Apartments			
Phase: 1			Project #:				
Floor Area: 1427	Sq Ft		•	Matt Lewis			
			Date:	3/13/2025			
LOAD	kVA	QTY	kVA	NOTES			
hting Load	4.28	1	4.28	3 VA/SF			
ppliance Circuits	3.00	1	3.00	(2) Dedicated 20A Ckts (w/ C	GFCI-P)		
cuit	1.50	1	1.50	Dedicated 20A Ckt			
nge	8.00	1	8.00				
/er	5.00	1	5.00				
ooling (240V)	5.44	1	5.44	Enter quantity for only the la	rapst of the		
essor (240V)	2.65	0	0.00	following: "A/C and Cooling",	-		
at (240V)	2.00	0	0.00	strip heat), "Electric Space H			
ace Heat (240V)	0.00	0	0.00	Thermal & Other Heating".			
al / Other (240V)	0.00	0	0.00				
er (240V)	9.60	1	9.60				
er (120V)	1.50	0	0.00				
r	0.80	1	0.80	(1) 20A Ckt for Dishwasher 8	Disposal		
	1.00	1	1.00	(1) 20A Ckt for Dishwasher 8	Disposal		
	1.50	1	1.50				
	0.80	1	0.80	Examples of fastened in place	e appliances are		
	0.00	0	0.00	compactors, furnace motors,			
	0.00	0	0.00	pumps, etc. Add these appl	iances individuall		
	0.00	0	0.00	where applicable.			
	0.00	0	0.00				
TOTAL CONNECT	ED LOAD	FOR UNIT	40.92	kVA			
DEMAND LOAD (PH	ASE)			DEMAND LOAD (NEUT	RAL)		
@ 100%	10.00	kVA	Gen Ltg, S	Small Appliance, Laundry	8.78		
ng @ 40%	10.1924			kVA @ 100% 3.00 k			
ing @ 100%	5.44	kVA	> 3 kV	A to 120 kVA @ 35%	2.02 kVA		
essor @ 100%	0.00	kVA	11	kVA @ 25%	0.00 kVA		
eat @ 65%	0.00	kVA	Remaining	g L-N Loads @ 100%	4.10 kVA		
ace Heat @ 65%	0.00	kVA	Dryer Loa	d @ 70%	3.50 kVA		
ace Heat @ 40%	0.00	kVA	Range Lo	ad @ 70%	4.48 kVA		
ermal & Other Heating	0.00	kVA	Unbalance	ed load > 200A @ 70%	0.00 kVA		
EMAND LOAD (PHASE)	25.63	kVA		EMAND LOAD (NEUTRAL)	17.10 kVA		
	106.80	AMPS			71.26 AMPS		
ty of 15A general lighting	circuits (w/	AFCI-P) =	3	AMP RATING OF THE GEN	ERAL LIGHTING		
OR			-	RECEPTACLE CIRCUIT(S) S			
ty of 20A general lighting	circuits (w/	AFCI-P) =	2	INDICATED IN THE PANEL			



ENLARGED UNIT PLAN - 2 BEDROOM 1/4"=1'-0"



	ENLARGED UNIT PLAN SYMBOLS LIST
Ŷv	DOUBLE GANG, RECESSED JUNCTION BOX FOR VANITY LIGHT FIXTURE. FIXTURE TO BE SELECTED BY OWNER. CONNECT TO CIRCUIT AND SWITCH SHOWN ON PLANS.
MC	MULTI CRITERIA DETECTOR. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES
Q	MOTOR CONNECTION FOR BATHROOM EXHAUST FAN. PROVIDE DOUBLE GANG JUNCTION BOX AND 20A MOTOR RATED SWITCH FOR DISCONNECT. CONNECT TO RESTROOM LIGHT CIRCUIT AND CONTROL VIA SWITCH SHOWN ON PLANS
0	6" SURFACE MOUNTED DOWNLIGHT. 1,200 LUMENS. 3000K, 120V. BASED ON HALO 'SMD6'. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES
() _F	CEILING FAN RATED JUNCTION BOX, CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES. FAN TO BE SELECTED BY OWNER
Н	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
₿s	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL TURN OFF SWITCH (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
₿ I	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL VISUAL/AUDIBLE DEVICE (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
	FER TO OVERALL SYMBOL LEGEND ON COVER SHEET FOR SYMBOLS WN ABOVE

GENERAL	NOTES

- A. AUDIBLE FIRE ALARM IN APARTMENT UNITS MUST INCLUDE 520HZ HORN.
- CEILING FAN BLADE CLEARANCE.
- PROVIDE ARC FAULT CURRENT INTERRUPTER PROTECTION FOR ALL CIRCUITS IN RESIDENT UNITS PER NEC 210.12. COORDINATE TV OUTLET BOX HEIGHTS AND LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- ALL ADA UNITS SHALL HAVE 177CD HORN/STROBES IN BEDROOM/COMMON AREAS AND 15CD STROBE IN BATHROOMS. OUTLETS ARE NOT TO BE LOCATED BACK-TO-BACK IN COMMON WALLS BETWEEN ROOMS. VERIFY ALL LOCATIONS PRIOR TO ROUGH-IN.
- ALL 15A AND 20A RECEPTACLES IN RESIDENT UNITS SHALL BE TAMPER RESISTANT. RECEPTACLES ABOVE KITCHEN COUNTERTOP SHALL BE MOUNTED HORIZONTALLY.

(##) KEYED NOTES:

- 1 DISHWASHER. COORDINATE EXACT LOCATION OF SWITCH WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
- 2"EC WITH PULL STRING BACK TO BUILDING TELECOM DEMARC LOCATION.
- OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR.
- CLOCK, AND PHOTOCELL. SEE DETAIL AND OVERALL PLAN FOR MORE INFORMATION.
- WITH ADJACENT UNIT SHALL NOT BE INSTALLED BACK TO BACK.
- 8. COORDINATE WITH ARCHITECTURAL PLANS FOR UNITS THAT ARE REQUIRED TO HAVE HEARING IMPAIRED DEVICES.

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B. ALL SMOKE DETECTORS SHALL BE PHOTOELECTRIC TYPE WITH SOUNDER BASE. SMOKE DETECTORS SHALL BE LOCATED A MINIMUM OF 3' FROM MECHANICAL AIR DIFFUSERS AND

IN ACCESSIBLE UNITS, ALL LIGHTING CONTROLS, ELECTRICAL SWITCHES (INCLUDING CIRCUIT BREAKERS), AND RECEPTACLE OUTLETS SHALL BE MOUNTED WITHIN A REACH RANGE SPECIFIED IN ANSI A117I.1 SECTION 308. COORDIANTE ALL REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR.

PROVIDE GFI RECEPTACLE FOR GARBAGE DISPOSAL AND DISHWASHER UNDER SINK IN ACCESSIBLE LOCATION. PROVIDE SWITCH UNDER COUNTER FOR GARBAGE DISPOSAL AND MEDIA ENCLOSURE. PROVIDE (2) DUPLEX RECEPTACLES AND MOUNT IN BOTTOM OF MEDIA ENCLOSURE. COORDINATE LOCATION AND HEIGHT IN FIELD WITH OWNER. PROVIDE

SPECIAL RECEPTACLE. EXACT TYPE, SIZE, ETC. SHALL BE COORDINATED WITH EQUIPMENT MANUFACTURER PRIOR TO ORDERING DEVICE. IN ACCESSIBLE UNITS, CONTRACTOR SHALL PROVIDE A REMOTE RANGE EXHAUST HOOD/LIGHT SWITCH, MOUNTED WITH AN ACCESSIBLE REACH RANGE. COORDINATE ALL REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK

RANGE HOOD POWER. COORDINATE EXACT LOCATION, REQUIREMENTS, ETC. WITH MANUFACTURER PRIOR TO ORDERING DEVICES AND ROUGH-IN. EXTERIOR FIXTURE TO BE POWERED VIA HOUSE PANEL, SEE OVERALL PLAN FOR CIRCUIT DESIGNATION. FIXTURE TO BE CONTROLLED VIA EXTERIOR LIGHTING CONTACTOR, TIME TYPICAL UNIT PANEL LOCATION. SEE OVERALL PLANS FOR PANEL DESIGNATION FOR EACH UNIT AND POWER RISER DIAGRAM FOR PANEL/FEEDER SIZE. PANELS THAT SHARE WALL

9. JUNCTION BOX, MOTOR SNAP SWITCH AND POWER FOR DRYER BOOSTER FAN. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH M.C. PRIOR TO ROUGH-IN.



TYPICAL LOAD SUMMARY FOR **2 BEDROOM, 2 BEDROOM TYPE-A, & 2 BEDROOM ACCESSIBLE** UNITS

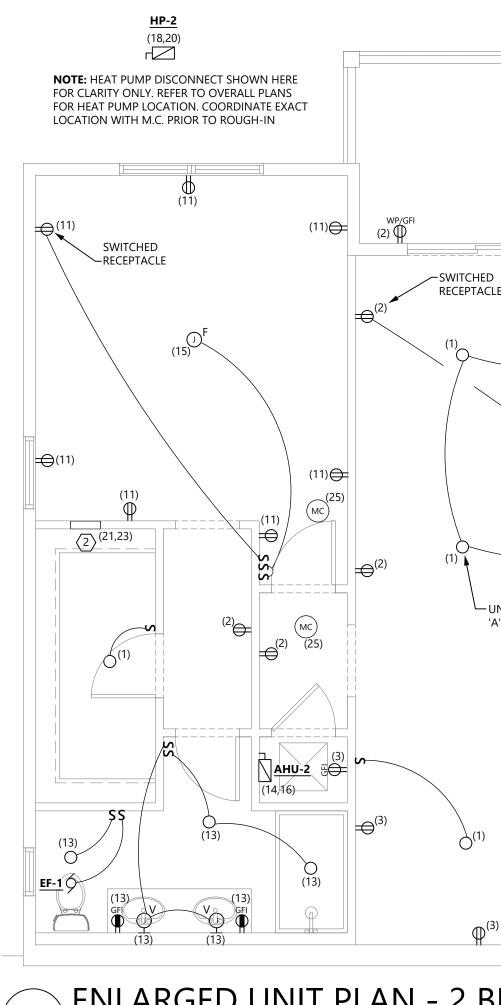
TYPICAL PANEL SCHEDULE FOR **2 BEDROOM TYPE-A** UNITS

			<u>VOLTAGE:</u> PHASE / WIRE: <u>AMPS:</u> AIC:	120/ 1φ/ 125		EL:	2-	-BC	DRN	Л ТҮF	PE-A		MOUNTING MAIN	<u>5:</u> FLUSH <u>1</u> : LUGS		
AD VIRE	<u></u> 4	218	LOAD NAME	10,0		* تیں	L	1		L2	*^يل	LOAD NAME		TRIP	WIRE	LOAD KVA
0 12	2	20 1	LIGHTING			1				<u>+</u> -/	2	REC - LIVING RO	OM	20	12	0.00
0 12			REC - GENERAL			3		\vdash		+ •	4	REC - KITCHEN		20	12	0.00
0 12	2	20 1	REC - KITCHEN			5				+-	6	REFRIGERATOR ((NOTE #7)	20	12	0.00
0 12	2	20	RANGE HOOD			7	\vdash			+ •	8	DISHWASHER (N	IOTE #7)	20	12	0.00
0 12	2	20 I	DISPOSAL			9				+-/	10	RANGE		50	6	0.00
0 12	2	0	REC - MASTER BEDR	ROOM		11	\vdash			•	12			50	6	0.00
0 12	2	20 1	MASTER BATHROON	Л		13				$+ \frown$	14	AIR HANDLER		25	10	0.00
0 12			FAN - MASTER BEDF			15	\vdash	\square		+ •	16				10	0.00
0 12		-	DRYER BOOSTER FA			17		\vdash		$+ \uparrow$	18	HEAT PUMP		20	8	0.00
0 12			WASHER (NOTE #7)			19	É	L+			20				8	0.00
0 12						21		H			22	DRYER		30	10	0.00
0 12 0 12			TELECOM BOX	#0)		23	É				24				10 6	0.00
00 12 00 12			REC - BEDROOM #2			25 27					26 28	WATER HEATER		50	6	0.00
0 12			BATHROOM #2			29					30	SPARE		20	0	0.00
0 12			FAN - BEDROOM #2	,		31					32	SPARE		20		
			SPARE	·		33				++-	34	SPARE		20		
			SPARE			35				+ •	36	SPARE		20		
	2		SPARE			37				+-/	38	SPARE		20		
	2	20 9	SPARE			39				+ +	40	SPARE		20		
	2	20 9	SPARE			41				+	42	SPARE		20		
0.0								SUI	втот	ALS						0.0
		LOAD	D (kVA)	Conn.	D.F.	Dmd.				Т	OTAL LC	AD PER PHASE				
LIGHT				0.0		0.0	-					NNECTED			#10)	
HEATI				0.0			L1=		0.0	kVA		0 AMPS				
COOLI		N		0.0		0.0	-		0.0	kVA	0	0 AMPS				
мото				0.0		0.0					D	EMAND			#10)	
КІТСН	IEN			0.0	0.65	0.0	L1-		0.0	kVA	0	0 AMPS		1		
REC. (1	(1st 10k)	(VA)		0.0	1.00	0.0	L2-		0.0	kVA	0	0 AMPS				
	(>10kVA	-		0.0		0.0								_		
WATE MISC.	ER HEA	TER		0.0		0.0	L1=		0.0	DEI kVA	AND A				#10)	
SPARE				0.0			L1 = L2 =		0.0 0.0			0 AMPS 0 AMPS				
							1				-					
·														· · · · · · · · · · · · · · · · · · ·		
res:																
			SHALL BE AS REQ'D			G.										
			ATED - SERIES RATI													
			L GND AND NEUTR ANEL AND BRKR LU													
			DOOR-IN-DOOR W													
			DIRECTORY FRAME.		2.2.001120											
			GFI (6mA-PERSON	NEL) BRKR ((250' MAX)											
			LOCK-ON DEVICE.													
		-	C FAULT CIRCUIT IN								S.					
10. SEE LC	UAD SL	имМ	ARY TABLE ON THIS	SHEET FOI	K CONNEC	ied and	DEM	AND	LOADS	5.						
				Μ	ΕCΗΔΙ	NICAI	EC	ווט	PMF		ONNI	CTION SCH	HEDULE - 2	BEDRO		JNITS
					UIPMENT			_								DISCONN
										- FLA	M	СА МОСР	FEEDE	R		

		EQUIPM	ENT CHARA	CTERISTICS	FLA	МСА	моср	FEEDER	D	ISCONNE	ст ѕwітсн	н
TAG	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	KW	FLA	IVICA	WICCP	FEEDER	SIZE	POLE	FUSE	NEM
<u>AHU-2</u>	1 BEDROOM AIR HANDLER	240	1	-	-	24.9	25	3#10,1#10G,1"C	30	2	25	1
<u>HP-2</u>	1 BEDROOM HEAT PUMP	240	1	-	-	13.8	20	NOTE 3	30	2	20	3R
<u>EWH-1</u>	ELECTRIC WATER HEATER	240	1	9.60	-	-	50	3#6,1#10G,1"C	60	2	50	1
<u>EF-1</u>	BATHROOM EXHAUST FAN	120	1	0.05	-	-	-	2#12,1#12G,3/4"C	N	10TOR SN	AP SWITCH	4
NOTES:												
1	COORDINATE ALL ROUGH-IN LO	CATIONS, CO	NNECTION T	YPES, BREAKER	SIZES, ETC	C. WITH API	PROVED ME	CHANICAL EQUIPMENT SUB	MITTALS PR	OR TO RC	UGH-IN AI	ND
	INSTALLATION. ALL ROUGH-INS	SHALL BE REV	IEWED AND	APPROVED BY N	MECHANIC	AL CONTR	ACTOR.					
2	FAN POWERED VIA LOCAL LIGHT	ING CIRCUIT.	CONNECT TO	SWITCH SHO	WN ON EP	NLARGED U	NIT PLANS					
3												

3 WIRE SIZE VARIES BASED ON DISTANCE FROM UNIT PANEL TO EXTERIOR HEAT PUMP. REFER TO OVERALL PLANS AND SIZE EACH UNIT HEAT PUMP TO ACCOUNT FOR VOLTAG

/oltage (L-L): Phase: Floor Area:	240 Volts 1	Pro							
Floor Area:	1	1	ject Name:	Naples Road Apartments					
			Project #:						
	1427 Sq Ft		-	Matt Lewis					
			Date:	3/13/2025					
LOAD	kVA	QTY	QTY kVA NOTES						
ighting Load	4.28	1	4.28	3 VA/SF					
Appliance Circuits	3.00	1	3.00	(2) Dedicated 20A Ckts (w/ C	GFCI-P)				
Fircuit	1.50	1	1.50	Dedicated 20A Ckt					
ange	8.00	1	8.00						
ryer	5.00	1	5.00						
Cooling (240V)	5.44	1	5.44						
ressor (240V)	2.65	0	0.00	Enter quantity for only the lar	-				
eat (240V)	2.00	0	0.00	following: "A/C and Cooling",					
pace Heat (240V)	0.00	0	0.00	strip heat), "Electric Space H	leat", or '	Electric			
mal / Other (240V)	0.00	0	0.00	Thermal & Other Heating".					
ater (240V)	9.60	1	9.60						
ater (120V)	1.50	0	0.00						
er (1200)	0.80	1	0.00	(1) 20A Ckt for Dishwasher &	Dienoen				
31				. ,	•				
	1.00	1	1.00	(1) 20A Ckt for Dishwasher &	Disposa	11			
9	1.50		1.50	Evennelse of featened in plac					
or	0.80	1	0.80	Examples of fastened in plac	•••				
	0.00	0	0.00	compactors, furnace motors,					
	0.00	0	0.00	pumps, etc. Add these appli	ances in	dividually			
	0.00	0	0.00	where applicable.					
	0.00	0	0.00						
TOTAL CON	NECTED LOAD	FOR UNIT	40.92	kVA					
DEMAND LOAD) (PHASE)			DEMAND LOAD (NEUTRAL)					
A @ 100%	10.00	kVA	VA Gen Ltg, Small Appliance, Laundry 8.7						
ning @ 40%	10.1924	kVA	1st 3 k	VA @ 100%	3.00	kVA			
oling @ 100%	5.44	kVA	> 3 kV	A to 120 kVA @ 35%	2.02	kVA			
ressor @ 100%	0.00	kVA		kVA @ 25%	0.00	kVA			
Heat @ 65%		kVA	Remaining	g L-N Loads @ 100%	4.10	kVA			
pace Heat @ 65%		kVA	Dryer Loa	-		kVA			
pace Heat @ 40%		kVA		ad @ 70%		kVA			
hermal & Other Heatin		kVA	-	ed load > 200A @ 70%		kVA			
	9 0.00								
DEMAND LOAD (PHA	SE) 25.63 106.80	kVA AMPS	TOTAL D	EMAND LOAD (NEUTRAL)	17.10 71.26	kVA AMPS			
tity of 15A general ligh OR	ting circuits (w/	AFCI-P) =	3	AMP RATING OF THE GEN RECEPTACLE CIRCUIT(S) S					
tity of 20A general ligh	nting circuits (w/	AFCI-P) =	2	INDICATED IN THE PANEL S	SCHEDU	LES.			



ENLARGED UNIT PLAN - 2 BEDROOM TYPE-A 1/4"=1'-0"

1A	NOTES
	1
	1,3
	1
	1,2
٩GE	DROP

	ENLARGED UNIT PLAN SYMBOLS LIST
Ŷv	DOUBLE GANG, RECESSED JUNCTION BOX FOR VANITY LIGHT FIXTURE. FIXTURE TO BE SELECTED BY OWNER. CONNECT TO CIRCUIT AND SWITCH SHOWN ON PLANS.
MC	MULTI CRITERIA DETECTOR. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES
Ś	MOTOR CONNECTION FOR BATHROOM EXHAUST FAN. PROVIDE DOUBLE GANG JUNCTION BOX AND 20A MOTOR RATED SWITCH FOR DISCONNECT. CONNECT TO RESTROOM LIGHT CIRCUIT AND CONTROL VIA SWITCH SHOWN ON PLANS
0	6" SURFACE MOUNTED DOWNLIGHT. 1,200 LUMENS. 3000K, 120V. BASED ON HALO 'SMD6'. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES
() _F	CEILING FAN RATED JUNCTION BOX, CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES. FAN TO BE SELECTED BY OWNER
®	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
₿s	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL TURN OFF SWITCH (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
®	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL VISUAL/AUDIBLE DEVICE (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
	FER TO OVERALL SYMBOL LEGEND ON COVER SHEET FOR SYMBOLS WN ABOVE

GENERAL	NOTES:

- A. AUDIBLE FIRE ALARM IN APARTMENT UNITS MUST INCLUDE 520HZ HORN.
- CEILING FAN BLADE CLEARANCE.
- PROVIDE ARC FAULT CURRENT INTERRUPTER PROTECTION FOR ALL CIRCUITS IN RESIDENT UNITS PER NEC 210.12. COORDINATE TV OUTLET BOX HEIGHTS AND LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- ALL ADA UNITS SHALL HAVE 177CD HORN/STROBES IN BEDROOM/COMMON AREAS AND 15CD STROBE IN BATHROOMS. OUTLETS ARE NOT TO BE LOCATED BACK-TO-BACK IN COMMON WALLS BETWEEN ROOMS. VERIFY ALL LOCATIONS PRIOR TO ROUGH-IN.
- ALL 15A AND 20A RECEPTACLES IN RESIDENT UNITS SHALL BE TAMPER RESISTANT. RECEPTACLES ABOVE KITCHEN COUNTERTOP SHALL BE MOUNTED HORIZONTALLY.

(##) KEYED NOTES:

- 1 DISHWASHER. COORDINATE EXACT LOCATION OF SWITCH WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
- 2"EC WITH PULL STRING BACK TO BUILDING TELECOM DEMARC LOCATION.
- OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR. RANGE HOOD POWER. COORDINATE EXACT LOCATION, REQUIREMENTS, ETC. WITH MANUFACTURER PRIOR TO ORDERING DEVICES AND ROUGH-IN.
- EXTERIOR FIXTURE TO BE POWERED VIA HOUSE PANEL, SEE OVERALL PLAN FOR CIRCUIT DESIGNATION. FIXTURE TO BE CONTROLLED VIA EXTERIOR LIGHTING CONTACTOR, TIME CLOCK, AND PHOTOCELL. SEE DETAIL AND OVERALL PLAN FOR MORE INFORMATION. TYPICAL UNIT PANEL LOCATION. SEE OVERALL PLANS FOR PANEL DESIGNATION FOR EACH UNIT AND POWER RISER DIAGRAM FOR PANEL/FEEDER SIZE. PANELS THAT SHARE WALL
- WITH ADJACENT UNIT SHALL NOT BE INSTALLED BACK TO BACK. 8. COORDINATE WITH ARCHITECTURAL PLANS FOR UNITS THAT ARE REQUIRED TO HAVE HEARING IMPAIRED DEVICES.
- 9. JUNCTION BOX, MOTOR SNAP SWITCH AND POWER FOR DRYER BOOSTER FAN. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH M.C. PRIOR TO ROUGH-IN.

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SPECIAL RECEPTACLE. EXACT TYPE, SIZE, ETC. SHALL BE COORDINATED WITH EQUIPMENT MANUFACTURER PRIOR TO ORDERING DEVICE. REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK

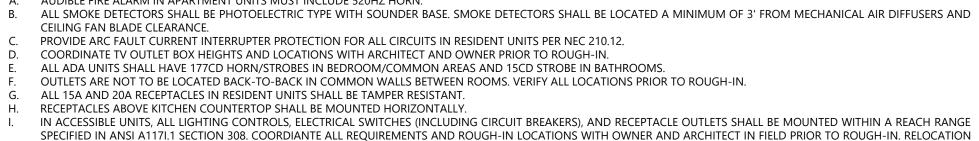
IN ACCESSIBLE UNITS, CONTRACTOR SHALL PROVIDE A REMOTE RANGE EXHAUST HOOD/LIGHT SWITCH, MOUNTED WITH AN ACCESSIBLE REACH RANGE. COORDINATE ALL

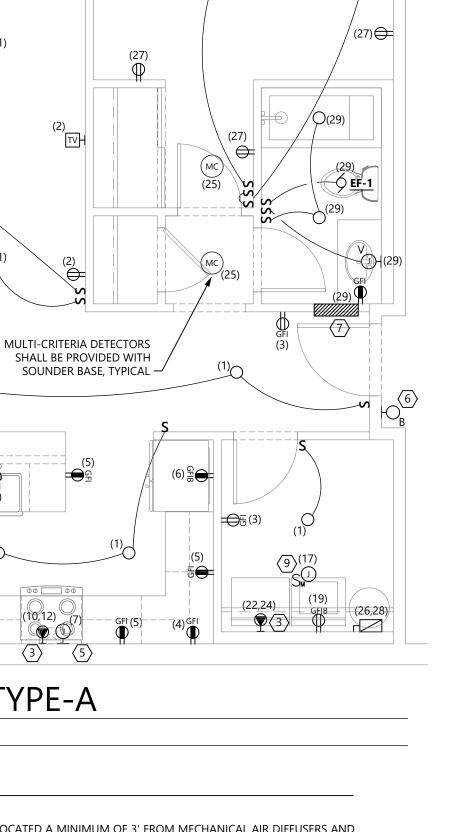
MEDIA ENCLOSURE. PROVIDE (2) DUPLEX RECEPTACLES AND MOUNT IN BOTTOM OF MEDIA ENCLOSURE. COORDINATE LOCATION AND HEIGHT IN FIELD WITH OWNER. PROVIDE

PROVIDE GFI RECEPTACLE FOR GARBAGE DISPOSAL AND DISHWASHER UNDER SINK IN ACCESSIBLE LOCATION. PROVIDE SWITCH UNDER COUNTER FOR GARBAGE DISPOSAL AND

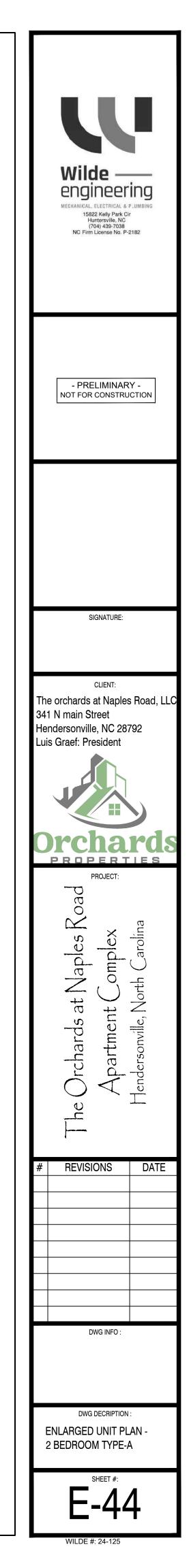
OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR.

- UNIT DOWNLIGHTS ARE FIXTURE 'A' UNLESS NOTED OTHERWISE





SWITCHED-RECEPTACLE



TYPICAL PANEL SCHEDULE FOR 2 BEDROOM ACCESSIBLE UNITS

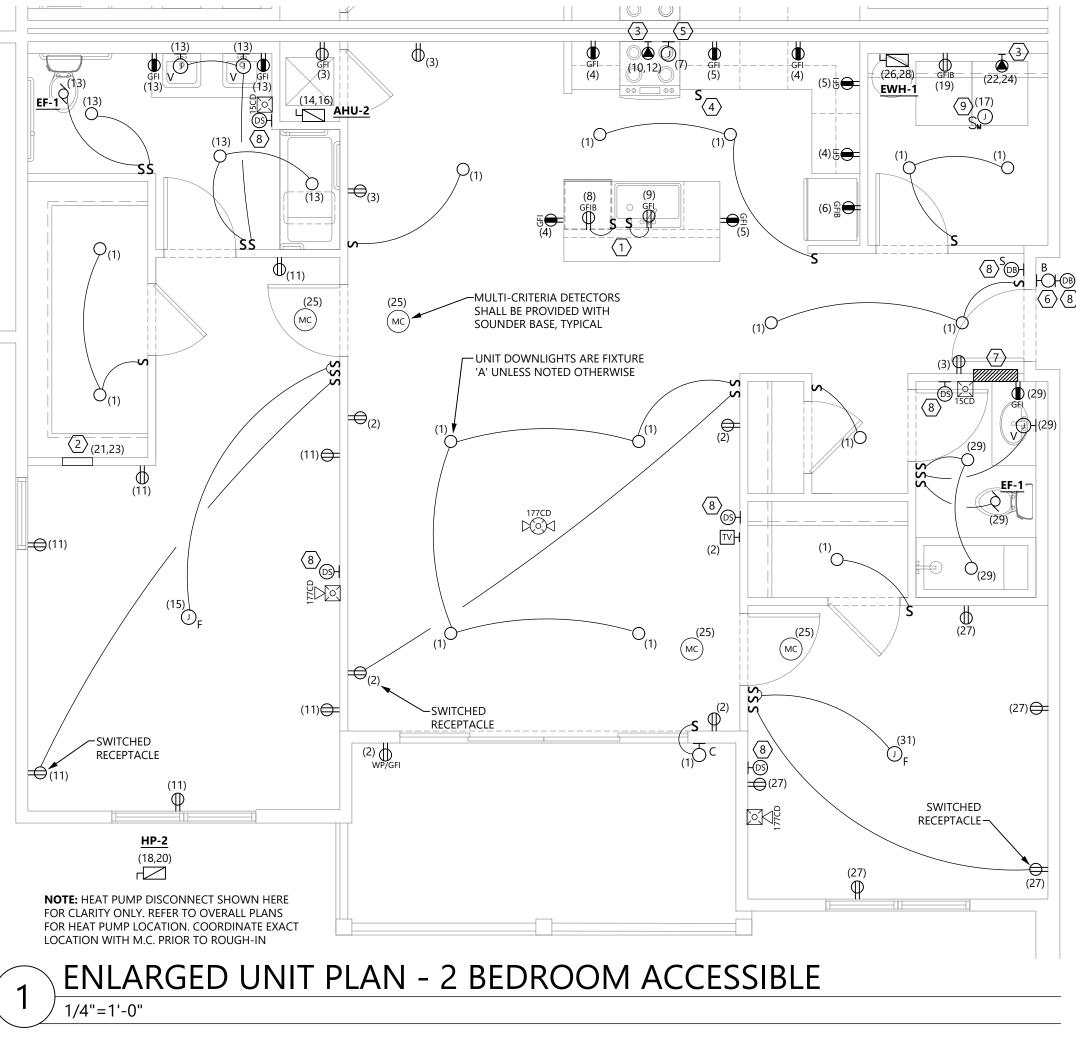
			VOLTAGE:	120/2	240							NG: FLUSH	1			
			PHASE / WIRE: AMPS: AIC:	1φ/ 3 125	3W		MAIN: LUGS ONLY									
DAD (VA	WIRE	TRIP	LOAD NAME			*ئى	L1		L2	ch.*	LOAD NAME	TRIP	WIRE	LOAD KVA		
0.00	12	20	LIGHTING			1			+-/	2	REC - LIVING ROOM	20	12	0.00		
0.00	12	20	REC - GENERAL			3			•	4	REC - KITCHEN	20	12	0.00		
0.00	12	20	REC - KITCHEN			5			+	6	REFRIGERATOR (NOTE #7)	20	12	0.00		
0.00	12	20	RANGE HOOD			7	$\vdash \frown$		•	8	DISHWASHER (NOTE #7)	20	12	0.00		
0.00	12	20	DISPOSAL			9		<u> </u>	+ -	10	RANGE	50	6	0.00		
0.00	12	20	REC - MASTER BEDF	ROOM		11			•	12			6	0.00		
0.00	12	20	MASTER BATHROON			13	├ ─ ● ─	<u> </u>	+	14	AIR HANDLER	25	10	0.00		
0.00	12	20	FAN - MASTER BEDF			15	$\vdash \uparrow$	1	+-+-	16	· · · · · · · · · · · · · · · · · · ·		10	0.00		
0.00	12	20	DRYER BOOSTER FA			17	_	+	+	18	HEAT PUMP	20	8	0.00		
0.00	12	20	WASHER (NOTE #7)			19			•	20			8	0.00		
0.00	12	20	TELECOM BOX			21			+	22	DRYER	30	10	0.00		
0.00	12	20	TELECOM BOX			23				24			10	0.00		
0.00	12	20	FIRE ALARM (NOTE			25				26	WATER HEATER	50	6	0.00		
0.00	12	20	REC - BEDROOM #2			27				28	CDADE		6	0.00		
0.00	12	20	BATHROOM #2			29				30	SPARE	20				
		20	SPARE			31				32	SPARE	20				
		20	SPARE			33				34	SPARE	20				
		20	SPARE			35				36	SPARE	20				
		20	SPARE SPARE			37	ĿŤ			38	SPARE	20				
			SPARE			39 41				40 42	SPARE SPARE	20				
0.0		20	SPARE			41	<u> </u>			42	SPARE	20		0.0		
0.0		104	D (kVA)	Conn.	D.F.	Dmd.	3				AD PER PHASE			0.0		
	LIGHTS	107		0.0	1.25	0.0					INECTED		±10)			
	HEATIN	G		0.0	1.00		L1=	0.0	kVA) AMPS		(NOTE #10)			
	COOLIN			0.0	1.00		L2=	0.0	kVA) AMPS					
	VENTILA	TION		0.0	1.00	0.0										
	MOTOR	S		0.0	1.00	0.0				DE	MAND	(NOTE #	#10)			
	KITCHEN			0.0	0.65		L1-	0.0	kVA) AMPS					
	REC. (1st			0.0	1.00		L2-	0.0	kVA	0.0) AMPS					
	REC. (>1	-		0.0	0.50	0.0			DE		4050/		410)			
	WATER MISC.	HEATER		0.0	1.00 1.00	0.0	L1=	0.0	kVA	MAND A	125%) AMPS	(NOTE #	Ŧ10)			
	SPARE			0.0	1.00		L2=	0.0	kVA) AMPS					
				0.0		010		0.0								
												I				
OTES																
1.	BREAKER	R FRAME	SHALL BE AS REQ'D	PER PANEL	AIC RATIN	IG.										
2.	SHALL BI	e fully	RATED - SERIES RATI	NGS NOT AI	LLOWED.											
			CL GND AND NEUTR													
			PANEL AND BRKR LU													
			DOOR-IN-DOOR W	/ITH OUTER	DOOR LO	CK.										
			DIRECTORY FRAME.													
			A GFI (6mA-PERSON) .E LOCK-ON DEVICE.		-											
			RC FAULT CIRCUIT IN					ING UN		S						
			ARY TABLE ON THIS							5.						

		EQUIPMENT CHARACTERISTICS			- FLA	мса	моср		D	DISCONNECT SWITCH			
TAG	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	KW	FLA		WICCP	FEEDER	SIZE	POLE	FUSE	NEMA	NOTES
<u>AHU-2</u>	1 BEDROOM AIR HANDLER	240	1	-	-	24.9	25	3#10,1#10G,1"C	30	2	25	1	1
<u>HP-2</u>	1 BEDROOM HEAT PUMP	240	1	-	-	13.8	20	NOTE 3	30	2	20	3R	1,3
<u>EWH-1</u>	ELECTRIC WATER HEATER	240	1	9.60	-	-	50	3#6,1#10G,1"C	60	2	50	1	1
<u>EF-1</u>	BATHROOM EXHAUST FAN	120	1	0.05	-	-	-	2#12,1#12G,3/4"C	N	IOTOR SN	AP SWITCH	-	1,2
NOTES:													
1	COORDINATE ALL ROUGH-IN LO	CATIONS, CON	INECTION TY	PES, BREAKER	SIZES, ETC	. WITH API	PROVED MEC	CHANICAL EQUIPMENT SUB	MITTALS PR	IOR TO RO	UGH-IN AI	ND	
	INSTALLATION. ALL ROUGH-INS	SHALL BE REVI	EWED AND A	PPROVED BY I	MECHANIC	AL CONTR	ACTOR.						
2	FAN POWERED VIA LOCAL LIGHT	ING CIRCUIT. (CONNECT TO	SWITCH SHO	WN ON EN	ILARGED U	INIT PLANS						
3	WIRE SIZE VARIES BASED ON DIS	TANCE FROM	UNIT PANFI	TO EXTERIOR	HEAT PUN	IP. REFER T	O OVERALL F	PLANS AND SIZE EACH UNI	T HEAT PUM		OUNT FOR	VOLTAGE DE	ROP

ric Spa ric Spa ric The

TYPICAL LOAD SUMMARY FOR **2 BEDROOM, 2 BEDROOM TYPE-A, & 2 BEDROOM ACCESSIBLE** UNITS

SUITE: 2 BDRM, 2	BDRM TYPE-A, 2	2BDRM AC	CESSIBLE	(Option	al Calc	ulatio			
oltage (L-L):	240 Volts	Pro	ject Name:	Naples Road Apartments					
Phase:	1		Project #:	24-125					
Floor Area:	1427 Sq Ft		By:	Matt Lewis					
·			Date:	3/13/2025					
LOAD	kVA	QTY	kVA	NOTES					
ghting Load	4.28	1	4.28	3 VA/SF					
Appliance Circuits	3.00	1	3.00	(2) Dedicated 20A Ckts (w/ 0	GFCI-P)				
ircuit	1.50	1	1.50	Dedicated 20A Ckt	,				
ange	8.00	1	8.00						
yer	5.00	1	5.00						
ooling (240V)	5.44	1	5.44						
essor (240V)	2.65	l o	0.00	Enter quantity for only the la	-				
eat (240V)	2.00		0.00	following: "A/C and Cooling",	•				
· · ·				strip heat), "Electric Space I	leat", or '	'Electric			
bace Heat (240V)	0.00	0	0.00	Thermal & Other Heating".					
nal / Other (240V)	0.00	0	0.00						
ter (240V)	9.60	1	9.60						
iter (120V)	1.50	0	0.00						
er	0.80	1	0.80	(1) 20A Ckt for Dishwasher 8	-				
	1.00	1	1.00	(1) 20A Ckt for Dishwasher &	k Disposa	al			
	1.50	1	1.50						
r	0.80	1	0.80	Examples of fastened in place	e appliar	nces are			
	0.00	0	0.00	compactors, furnace motors,	attic fan	s, water			
	0.00	0	0.00	pumps, etc. Add these appl	iances in	dividually			
	0.00	0	0.00	where applicable.					
	0.00	0	0.00						
TOTAL CONN	ECTED LOAD	FOR UNIT	_	kVA					
DEMAND LOAD	(PHASE)		DEMAND LOAD (NEUTRAL)						
A @ 100%		kVA	Gen Lta. S	Small Appliance, Laundry	8.78				
ing @ 40%	10.1924			VA @ 100%		kVA			
ling @ 100%		kVA		A to 120 kVA @ 35%		kVA			
essor @ 100%		kVA	11	<va 25%<="" @="" td=""><td></td><td>kVA</td></va>		kVA			
leat @ 65%				L-N Loads @ 100%		kVA			
-		kVA kVA	Dryer Loa	<u> </u>		kVA kVA			
bace Heat @ 65%			11 ·	•					
bace Heat @ 40%		kVA		ad @ 70%		kVA			
nermal & Other Heating	g 0.00	kVA	Unbalance	ed load > 200A @ 70%	0.00	kVA			
DEMAND LOAD (PHA	SELL	kVA AMPS	TOTAL D	EMAND LOAD (NEUTRAL)	17.10 71.26	kVA AMPS			
tity of 15A general ligh	ting circuits (w/	AFCI-P) =	= 3	AMP RATING OF THE GEN	ERAL LIC	GHTING			
OR	-	-		RECEPTACLE CIRCUIT(S) \$	SHALL BE	E AS			
tity of 20A general ligh	ting circuits (w/	AFCI-P) =	= 2	INDICATED IN THE PANEL					



₽v	DOUBLE GANG, RECESSED JUNCTION BOX FOR VANITY LIGHT FIXTURE. FIXTURE TO BE SELECTED BY OWNER. CONNECT TO
v	CIRCUIT AND SWITCH SHOWN ON PLANS.
MC	MULTI CRITERIA DETECTOR. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES
Q	MOTOR CONNECTION FOR BATHROOM EXHAUST FAN. PROVIDE DOUBLE GANG JUNCTION BOX AND 20A MOTOR RATED SWITCH FOR DISCONNECT. CONNECT TO RESTROOM LIGHT CIRCUIT AND CONTROL VIA SWITCH SHOWN ON PLANS
0	6" SURFACE MOUNTED DOWNLIGHT. 1,200 LUMENS. 3000K, 120V. BASED ON HALO 'SMD6'. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES
⊘ _F	CEILING FAN RATED JUNCTION BOX, CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES. FAN TO BE SELECTED BY OWNER
₿	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
₿s	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL TURN OFF SWITCH (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
© ₽	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL VISUAL/AUDIBLE DEVICE (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.

GENERAL	NOTES:	

- A. AUDIBLE FIRE ALARM IN APARTMENT UNITS MUST INCLUDE 520HZ HORN.
- CEILING FAN BLADE CLEARANCE.
- PROVIDE ARC FAULT CURRENT INTERRUPTER PROTECTION FOR ALL CIRCUITS IN RESIDENT UNITS PER NEC 210.12. COORDINATE TV OUTLET BOX HEIGHTS AND LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- ALL ADA UNITS SHALL HAVE 177CD HORN/STROBES IN BEDROOM/COMMON AREAS AND 15CD STROBE IN BATHROOMS.
- ALL 15A AND 20A RECEPTACLES IN RESIDENT UNITS SHALL BE TAMPER RESISTANT. RECEPTACLES ABOVE KITCHEN COUNTERTOP SHALL BE MOUNTED HORIZONTALLY.
- OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR.

(##) KEYED NOTES:

- 1 DISHWASHER. COORDINATE EXACT LOCATION OF SWITCH WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
- 2"EC WITH PULL STRING BACK TO BUILDING TELECOM DEMARC LOCATION.
- OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR. RANGE HOOD POWER. COORDINATE EXACT LOCATION, REQUIREMENTS, ETC. WITH MANUFACTURER PRIOR TO ORDERING DEVICES AND ROUGH-IN.
- CLOCK, AND PHOTOCELL. SEE DETAIL AND OVERALL PLAN FOR MORE INFORMATION.
- WITH ADJACENT UNIT SHALL NOT BE INSTALLED BACK TO BACK.
- COORDINATE WITH ARCHITECTURAL PLANS FOR UNITS THAT ARE REQUIRED TO HAVE HEARING IMPAIRED DEVICES.

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B. ALL SMOKE DETECTORS SHALL BE PHOTOELECTRIC TYPE WITH SOUNDER BASE. SMOKE DETECTORS SHALL BE LOCATED A MINIMUM OF 3' FROM MECHANICAL AIR DIFFUSERS AND

OUTLETS ARE NOT TO BE LOCATED BACK-TO-BACK IN COMMON WALLS BETWEEN ROOMS. VERIFY ALL LOCATIONS PRIOR TO ROUGH-IN.

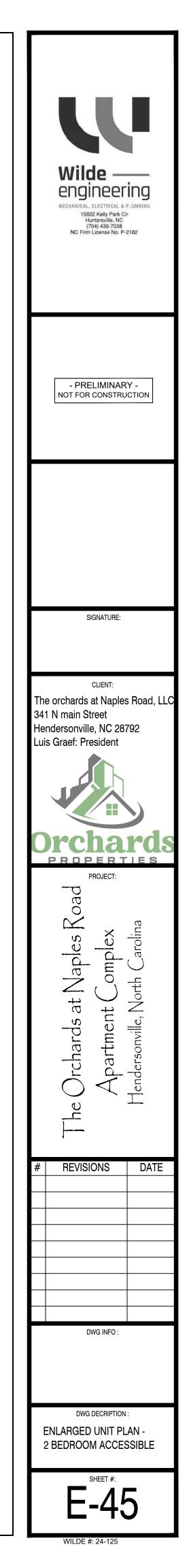
IN ACCESSIBLE UNITS, ALL LIGHTING CONTROLS, ELECTRICAL SWITCHES (INCLUDING CIRCUIT BREAKERS), AND RECEPTACLE OUTLETS SHALL BE MOUNTED WITHIN A REACH RANGE SPECIFIED IN ANSI A117I.1 SECTION 308. COORDIANTE ALL REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION

PROVIDE GFI RECEPTACLE FOR GARBAGE DISPOSAL AND DISHWASHER UNDER SINK IN ACCESSIBLE LOCATION. PROVIDE SWITCH UNDER COUNTER FOR GARBAGE DISPOSAL AND MEDIA ENCLOSURE. PROVIDE (2) DUPLEX RECEPTACLES AND MOUNT IN BOTTOM OF MEDIA ENCLOSURE. COORDINATE LOCATION AND HEIGHT IN FIELD WITH OWNER. PROVIDE SPECIAL RECEPTACLE. EXACT TYPE, SIZE, ETC. SHALL BE COORDINATED WITH EQUIPMENT MANUFACTURER PRIOR TO ORDERING DEVICE.

IN ACCESSIBLE UNITS, CONTRACTOR SHALL PROVIDE A REMOTE RANGE EXHAUST HOOD/LIGHT SWITCH, MOUNTED WITH AN ACCESSIBLE REACH RANGE. COORDINATE ALL REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK

EXTERIOR FIXTURE TO BE POWERED VIA HOUSE PANEL, SEE OVERALL PLAN FOR CIRCUIT DESIGNATION. FIXTURE TO BE CONTROLLED VIA EXTERIOR LIGHTING CONTACTOR, TIME TYPICAL UNIT PANEL LOCATION. SEE OVERALL PLANS FOR PANEL DESIGNATION FOR EACH UNIT AND POWER RISER DIAGRAM FOR PANEL/FEEDER SIZE. PANELS THAT SHARE WALL

9. JUNCTION BOX, MOTOR SNAP SWITCH AND POWER FOR DRYER BOOSTER FAN. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH M.C. PRIOR TO ROUGH-IN.



TYPICAL LOAD SUMMARY FOR **3 BEDROOM, 3 BEDROOM TYPE-A, & 3 BEDROOM** ACCESSIBLE UNITS

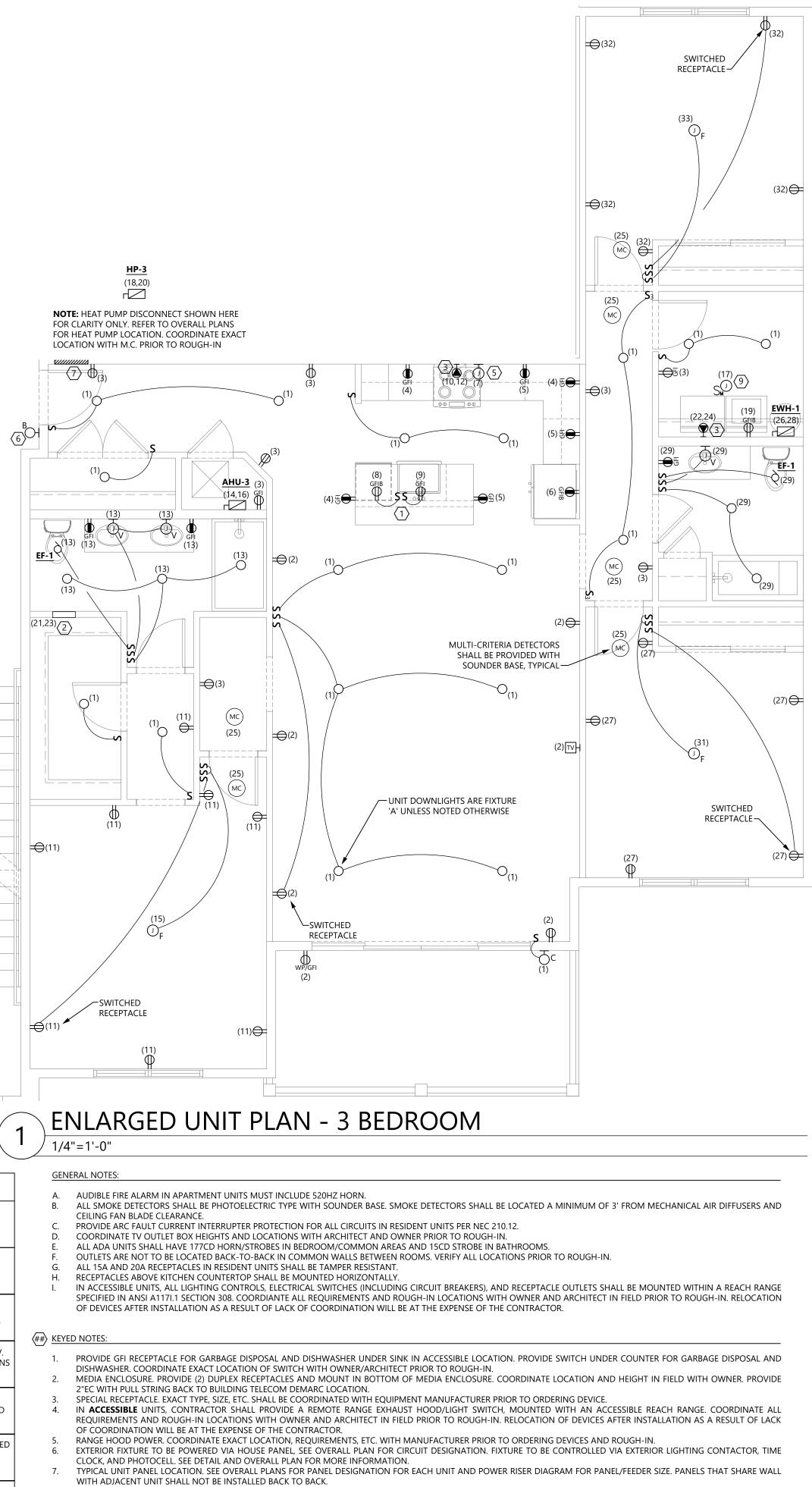
TYPICAL PANEL SCHEDULE FOR **3 BEDROOM** UNITS

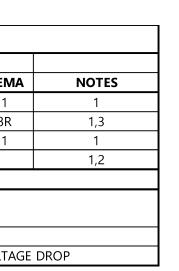
			I	NEW F	PAN	EL:	3-E	3DRN	Λ								S
			<u>VOLTAGE:</u> PHASE / WIRE: AMPS: AIC:	120/ 2 1φ/ 3 125 10,00	W								<u>MOUNTING</u> MAIN	E FLUSH			
load Kva	WIRE	TRIP		10,00		*^بى	L1			L2	*`ىل	LOAD NAME		TRIP	WIRE	LOAD KVA	
0.00	12		LIGHTING									REC - LIVING RO		20	12	0.00	(2
0.00	12	20	REC - GENERAL			1		<u> </u>				REC - KITCHEN		20	12	0.00	
0.00	12	20	REC - KITCHEN			5		<u> </u>				REFRIGERATOR (NOTE #7)	20	12	0.00	
0.00	12	20	RANGE HOOD			7		<u> </u>	_	•		DISHWASHER (N		20	12	0.00	
0.00	12	20	DISPOSAL			9	-•		-		10				6	0.00	+
0.00	12	20	REC - MASTER BEDR	ООМ		11			+	•	12	RANGE		50	6	0.00	
0.00	12	20	REC - MASTER BATH	ROOM		13			+	\frown	14			30	10	0.00	
0.00	12	20	FAN - MASTER BEDR	MOO		15	$\vdash \uparrow$	—	-	•	16	AIR HANDLER		30	10	0.00	
0.00	12	20	DRYER BOOSTER FAI	N		17	-•		-	<u> </u>	18	HEAT PUMP		25	8	0.00	
0.00	12	20	WASHER (NOTE #7)			19				•	20			25	8	0.00	
0.00	12	20	TELECOM BOX			21	•	+	\perp	\frown	22	DRYER		30	10	0.00	
0.00	12	20	TELECOM BOX			23		+	1	•	24				10	0.00	F
0.00	12	20	FIRE ALARM (NOTE #	[‡] 8)		25		+	+-⁄	\square	26	WATER HEATER		50	6	0.00	
0.00	12	20	REC - BEDROOM #2			27		+	1		28				6	0.00	
0.00	12	20	BATHROOM #2			29	•		\perp	\square		SPARE		20		0.00	
0.00	12	20	FAN - BEDROOM #2			31	\square				32	REC - BEDROOM	#3	20	12		
0.00	12	20	FAN - BEDROOM #3			33						SPARE		20			
		20	SPARE			35	\square					SPARE		20			
		20	SPARE			37			\perp			SPARE		20			
		20	SPARE			39						SPARE		20			
		20	SPARE			41		<u> </u>			42	SPARE		20			
0.0			D (kVA)	Comm	D.F.	Dmd.		SUB TOT	ALS	тс		D PER PHASE				0.0	
	LIGHTS	104		Conn. 0.0	<u>р.г.</u> 1.25	0.0						NECTED		(NOTE #	±10)		E
	HEATIN	G		0.0	1.00		L1=	0.0	k۷	4		AMPS			10)		E
	COOLIN	G		0.0	1.00	0.0	L2=	0.0	kVA	4	0.0	AMPS					
	VENTILA	TION		0.0	1.00	0.0								_			
	MOTOR			0.0	1.00	0.0						MAND			ŧ10)		
				0.0 0.0	0.65		L1- L2-	0.0	kV/			AMPS					
	REC. (1st REC. (>1	-		0.0	1.00 0.50	0.0	-	0.0	kVA	•	0.0	AMPS					
	WATER			0.0	1.00	0.0				DEN	AND AT	125%		(NOTE #	±10)		
	MISC.			0.0	1.00		L1=	0.0	kV/			AMPS		1	,		
	SPARE			0.0	1.00	0.0	L2=	0.0	k٧	4	0.0	AMPS					
																	1
_																	1
OTES:						IG.											
	BREAKE	r frame	SHALL BE AS REQ'D	PER PANEL A													
2.	SHALL B	e Fully	RATED - SERIES RATIN	NGS NOT AL	OWED.												
1. 2. 3.	SHALL B ALL BUS	e fully Sing, in	RATED - SERIES RATIN CL GND AND NEUTR/	NGS NOT AL AL, SHALL BE	LOWED. COPPER												
1. 2. 3. 4.	SHALL B ALL BUS ALL INCO	e fully sing, in oming i	RATED - SERIES RATIN CL GND AND NEUTR/ PANEL AND BRKR LUC	NGS NOT AL AL, SHALL BE GS SHALL MA	LOWED. COPPER ATCH FEE	DERS.											
1. 2. 3. 4. 5.	SHALL B ALL BUS ALL INCO PROVIDE	e fully Sing, in Oming i E hinge	RATED - SERIES RATIN CL GND AND NEUTR/ PANEL AND BRKR LUC D DOOR-IN-DOOR W	NGS NOT AL AL, SHALL BE GS SHALL MA	LOWED. COPPER ATCH FEE	DERS.											
1. 2. 3. 4. 5. 6.	Shall B All Bus All Inco Provide Provide	e fully Sing, in Oming i e hinge e metal	RATED - SERIES RATIN CL GND AND NEUTR/ PANEL AND BRKR LUC	NGS NOT AL AL, SHALL BE GS SHALL MA ITH OUTER E	LOWED. COPPER ATCH FEE DOOR LO	DERS. CK.											
1. 2. 3. 4. 5. 6. 7.	Shall B All Bus All Inco Provide Provide Provide	e fully Sing, in Oming i E hinge E metal E class	RATED - SERIES RATIN CL GND AND NEUTRA PANEL AND BRKR LUC D DOOR-IN-DOOR W DIRECTORY FRAME.	NGS NOT AL AL, SHALL BE 55 SHALL MA ITH OUTER [IEL) BRKR (2:	LOWED. COPPER TCH FEE DOOR LO	DERS. CK.											
1. 2. 3. 4. 5. 6. 7. 8.	SHALL B ALL BUS ALL INCO PROVIDI PROVIDI PROVIDI PROVIDI	e fully Sing, in Oming i E hinge E metal E class E handi	RATED - SERIES RATIN CL GND AND NEUTRA PANEL AND BRKR LUC D DOOR-IN-DOOR W DIRECTORY FRAME. A GFI (6mA-PERSONN	NGS NOT AL AL, SHALL BE SS SHALL MA ITH OUTER E IEL) BRKR (21 BREAKER SH	LOWED. COPPER TCH FEE DOOR LO 50' MAX) ALL BE RI	DERS. CK. ED.	L DWE	LING UN	IIT CII	RCUIT	S.						
1. 2. 3. 4. 5. 6. 7. 8. 9.	SHALL B ALL BUS ALL INCO PROVIDE PROVIDE PROVIDE PROVIDE	e fully Sing, in Oming i E hinge E metal E class E handi E afci (a	RATED - SERIES RATIN CL GND AND NEUTR/ PANEL AND BRKR LUC D DOOR-IN-DOOR W DIRECTORY FRAME. A GFI (6mA-PERSONN E LOCK-ON DEVICE. I	NGS NOT AL AL, SHALL BE SS SHALL MA ITH OUTER E IEL) BRKR (2: BREAKER SH TERRUPTING	LOWED. COPPER TCH FEE DOOR LO 50' MAX) ALL BE RI) BREAKI	DERS. CK. ED. ER FOR AL				RCUIT	S.						
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1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	SHALL B ALL BUS ALL INCO PROVIDE PROVIDE PROVIDE PROVIDE SEE LOA	E FULLY SING, IN OMING I E HINGE E METAL E CLASS E HANDL E AFCI (A AD SUMN	RATED - SERIES RATIN CL GND AND NEUTR/ PANEL AND BRKR LUC D DOOR-IN-DOOR W DIRECTORY FRAME. A GFI (6mA-PERSONN E LOCK-ON DEVICE. I RC FAULT CIRCUIT IN MARY TABLE ON THIS	NGS NOT AL AL, SHALL BE SS SHALL MA ITH OUTER E IEL) BRKR (2: BREAKER SH TERRUPTING SHEET FOR O ME EQU	COWED. COPPER TCH FEE DOOR LO 50' MAX) ALL BE RI) BREAKI CONNEC	DERS. CK. ED. ER FOR AL TED AND NICAL	EQU EQU	ND LOAD	s. E N 1				IEDULE - 3 E			DISCONN	
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. TAG	SHALL B ALL BUS ALL INCO PROVIDE PROVIDE PROVIDE SEE LOA	E FULLY SING, IN OMING I E HINGE E METAL E CLASS E HANDL E AFCI (A D SUMN	RATED - SERIES RATIN CL GND AND NEUTRA PANEL AND BRKR LUC D DOOR-IN-DOOR W DIRECTORY FRAME. A GFI (6mA-PERSONN E LOCK-ON DEVICE. I RC FAULT CIRCUIT IN MARY TABLE ON THIS	NGS NOT AL AL, SHALL BE SS SHALL MA ITH OUTER E IEL) BRKR (2: BREAKER SH TERRUPTING SHEET FOR (ME EQU VOLTA	COWED. COPPER TCH FEE DOOR LO 50' MAX) ALL BE RI) BREAKI CONNEC	DERS. CK. ED. ER FOR AL TED AND NICAL CHARAC PHASE	EQU EQU	JIPMI	s. E N 1		DNNE(а моср	FEEDER		SIZ	DISCONN E POLE	FUSE
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1. 2. 3. 4. 5. 6. 7. 8. 9. 10. TAG	SHALL B ALL BUS ALL INCO PROVIDE PROVIDE PROVIDE PROVIDE SEE LOA	E FULLY SING, IN OMING I E HINGE E METAL E CLASS E HANDL E AFCI (A D SUMN D SUMN BEDRO I BEDRO	RATED - SERIES RATIN CL GND AND NEUTRA PANEL AND BRKR LUC D DOOR-IN-DOOR W DIRECTORY FRAME. A GFI (6mA-PERSONN E LOCK-ON DEVICE. I RC FAULT CIRCUIT IN MARY TABLE ON THIS	NGS NOT AL AL, SHALL BE SS SHALL MA ITH OUTER E IEL) BRKR (2: BREAKER SH TERRUPTING SHEET FOR (ME EQU VOLTA	COWED. COPPER TCH FEE DOOR LO 50' MAX) ALL BE RI) BREAKI CONNEC	DERS. CK. ED. ER FOR AL TED AND NICAL CHARAC PHASE	EQU CTERIS	JIPMI STICS KW	s. E N 1	Г СС FLA	DNNE(а моср	FEEDER	,1"C	SIZ	DISCONN ZE POLE D 2 D 2	

COORDINATE ALL ROUGH-IN LOCATIONS, CONNECTION TYPES, BREAKER SIZES, ETC. WITH APPROVED MECHANICAL EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN AND 1 INSTALLATION. ALL ROUGH-INS SHALL BE REVIEWED AND APPROVED BY MECHANICAL CONTRACTOR. FAN POWERED VIA LOCAL LIGHTING CIRCUIT. CONNECT TO SWITCH SHOWN ON ENLARGED UNIT PLANS 2

3 WIRE SIZE VARIES BASED ON DISTANCE FROM UNIT PANEL TO EXTERIOR HEAT PUMP. REFER TO OVERALL PLANS AND SIZE EACH UNIT HEAT PUMP TO ACCOUNT FOR VOLTAGE DROP

oltage (L-L): 240	Volts	Pro	ect Name:	Naples Road Apartments		
Phase: 1	1		Project #:			
	Sq Ft		•	Matt Lewis		
I	1 '		•	3/13/2025		
LOAD	kVA	QTY	kVA	NOTES		
ghting Load	5.15	1	5.15	3 VA/SF		
Appliance Circuits	3.00	1	3.00	(2) Dedicated 20A Ckts (w/ 0	GFCI-P)	
ircuit	1.50	1	1.50	Dedicated 20A Ckt	,	
ange	8.00	1	8.00			
yer	5.00	1	5.00			
ooling (240V)	5.72	1	5.72			
essor (240V)	3.26	0	0.00	Enter quantity for only the la	-	
eat (240V)	2.00	0	0.00	following: "A/C and Cooling",		
ace Heat (240V)	0.00	0	0.00	strip heat), "Electric Space H	leat", or '	'Electric
nal / Other (240V)	0.00	0	0.00	Thermal & Other Heating".		
ter (240V)	9.60	1	9.60			
ter (120V)	1.50	0	0.00			
er (1200)	0.80	1	0.80	(1) 20A Ckt for Dishwasher 8	Dienoes	al
I	1.00	1	1.00	(1) 20A Ckt for Dishwasher 8	•	
	1.50	1	1.50	(1) ZUA CKI IDI DISHWASHEI G		11
r	0.80	1	0.80	Examples of fastened in place	e annliar	ices are
	0.00	0	0.80	compactors, furnace motors,		
	0.00	0	0.00	pumps, etc. Add these appl		
		_		where applicable.		uiviuuaii
	0.00	0	0.00			
	0.00		0.00			
TOTAL CONNECT	ED LOAD		42.07	kVA		
DEMAND LOAD (PH				DEMAND LOAD (NEUT	RAL)	
x @ 100%	10.00		Gen Ltg, S	Small Appliance, Laundry	9.65	
ing @ 40%	10.5392	kVA	1st 3 k	VA @ 100%		kVA
ling @ 100%	5.72		> 3 kV	A to 120 kVA @ 35%		kVA
essor @ 100%	0.00	kVA	> 120 I	<va 25%<="" @="" td=""><td>0.00</td><td>kVA</td></va>	0.00	kVA
eat @ 65%	0.00	kVA	Remaining	g L-N Loads @ 100%	4.10	kVA
ace Heat @ 65%	0.00	kVA	Dryer Loa	d @ 70%	3.50	kVA
ace Heat @ 40%	0.00	kVA	Range Loa	ad @ 70%	4.48	kVA
ermal & Other Heating	0.00	kVA	Unbalance	ed load > 200A @ 70%	0.00	kVA
DEMAND LOAD (PHASE)	26.26 109.41	kVA AMPS	TOTAL D	EMAND LOAD (NEUTRAL)	17.41 72.53	kVA AMPS
ity of 15A general lighting of	circuits (w/	AFCI-P) =	3	AMP RATING OF THE GEN	ERAL LIG	GHTING
OR		,		RECEPTACLE CIRCUIT(S) S	SHALL BE	E AS
ity of 20A general lighting of	circuits (w/	AFCI-P) =	3	INDICATED IN THE PANEL		



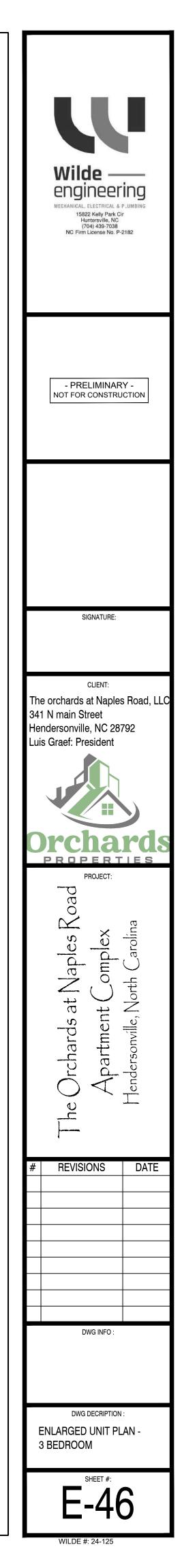


	ENLARGED UNIT PLAN SYMBOLS LIST
Qv	DOUBLE GANG, RECESSED JUNCTION BOX FOR VANITY LIGHT FIXTURE. FIXTURE TO BE SELECTED BY OWNER. CONNECT TO CIRCUIT AND SWITCH SHOWN ON PLANS.
MC	MULTI CRITERIA DETECTOR. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES
Q	MOTOR CONNECTION FOR BATHROOM EXHAUST FAN. PROVIDE DOUBLE GANG JUNCTION BOX AND 20A MOTOR RATED SWITCH FOR DISCONNECT. CONNECT TO RESTROOM LIGHT CIRCUIT AND CONTROL VIA SWITCH SHOWN ON PLANS
0	6" SURFACE MOUNTED DOWNLIGHT. 1,200 LUMENS. 3000K, 120V. BASED ON HALO 'SMD6'. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES
0 _F	CEILING FAN RATED JUNCTION BOX, CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES. FAN TO BE SELECTED BY OWNER
®	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
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<u>©</u>	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL VISUAL/AUDIBLE DEVICE (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
	FER TO OVERALL SYMBOL LEGEND ON COVER SHEET FOR SYMBOLS WN ABOVE

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COORDINATE WITH ARCHITECTURAL PLANS FOR UNITS THAT ARE REQUIRED TO HAVE HEARING IMPAIRED DEVICES.

JUNCTION BOX, MOTOR SNAP SWITCH AND POWER FOR DRYER BOOSTER FAN. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH M.C. PRIOR TO ROUGH-IN.



TYPICAL LOAD SUMMARY FOR **3 BEDROOM, 3** BEDROOM TYPE-A, & 3 BEDROOM ACCESSIBLE UNITS

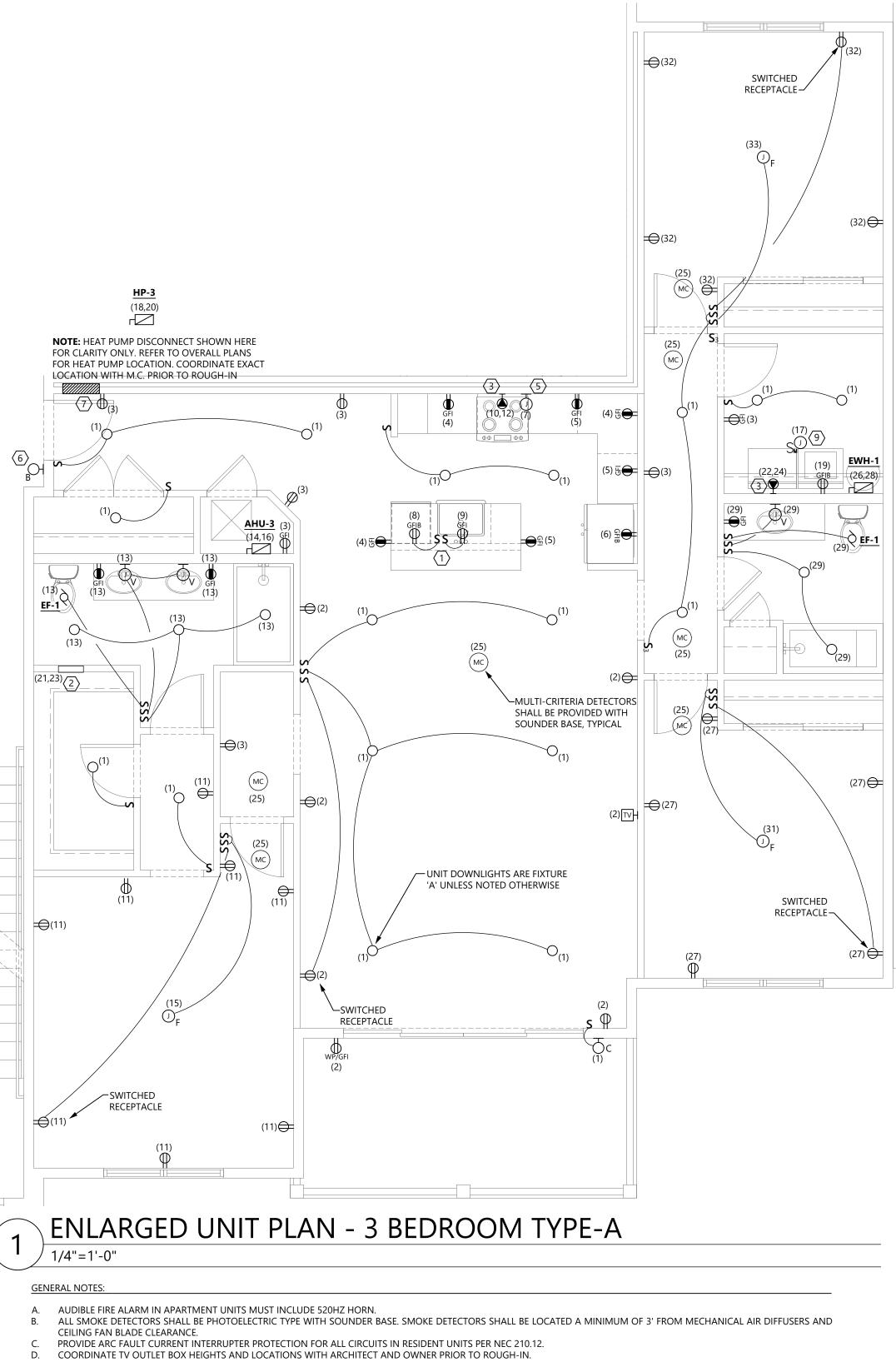
TYPICAL PANEL SCHEDULE FOR **3 BEDROOM TYPE-A** UNITS

	NEW PANEL:							DRN	<i>Ι</i> ΤΥΙ	PE-A				
			VOLTAGE: PHASE / WIRE: AMPS: <u>AIC:</u>	120/ 2 1φ/ 3 125 10,0	3W							ING: FLUSH AIN: LUGS		
DAD VA	WIRE	TRIP	LOAD NAME			* کې	L1		L2	* تین	LOAD NAME	TRIP	WIRE	load Kva
00	12	20	LIGHTING			1	•		+-^	2	REC - LIVING ROOM	20	12	0.00
.00	12	20	REC - GENERAL			3	$\vdash \frown$		•	4	REC - KITCHEN	20	12	0.00
00	12	20	REC - KITCHEN			5		_	+ -	- 6	REFRIGERATOR (NOTE #7)	20	12	0.00
00	12	20	RANGE HOOD			7	$\vdash \frown$		•	8	DISHWASHER (NOTE #7)	20	12	0.00
00	12	20	DISPOSAL			9			+	- 10	RANGE	50	6	0.00
00	12	20	REC - MASTER BEDR	MOOM		11	$\vdash \uparrow \uparrow$		•	12	KANOL	50	6	0.00
00	12	20	MASTER BATHROOM	1		13			$+ \uparrow -$	- 14	-AIR HANDLER	30	10	0.00
0	12	20	FAN - MASTER BEDR	ROOM		15	$\vdash \frown$		•	16		50	10	0.00
10	12	20	DRYER BOOSTER FAI	N		17			$+ \wedge$	- 18	HEAT PUMP	25	8	0.00
00	12	20	WASHER (NOTE #7)			19	$\vdash \frown$		•	20		25	8	0.00
00	12	20	TELECOM BOX			21	— •			- 22	- DRYER	30	10	0.00
00	12	20	TELECOM BOX			23	$\vdash \uparrow$		+ •	24		50	10	0.00
00	12	20	FIRE ALARM (NOTE #	#8)		25	•-		+	- 26	-WATER HEATER	50	6	0.00
00	12	20	REC - BEDROOM #2			27	$\vdash \frown$	-	+ •	- 28	WATER HEATER	50	6	0.00
00	12	20	BATHROOM #2			29			+	- 30	SPARE	20		
0	12	20	FAN - BEDROOM #2			31	$\vdash \frown$		•	32	REC - BEDROOM #3	20	12	
00	12	20	FAN - BEDROOM #3	D		33			+	- 34	SPARE	20		
		20	SPARE			35	\vdash		+ +	36	SPARE	20		
		20	SPARE			37			+-/	- 38	SPARE	20		
		20	SPARE			39	F -		+ •	40	SPARE	20		
		20	SPARE			41			+-	- 42	SPARE	20		
0.1			1				S		ALS				11	0.0
		LO	AD (kVA)	Conn.	D.F.	Dmd.				TOTAL LO	AD PER PHASE			
LI	GHTS			0.0	1.25	0.0				CON	INECTED	(NOTE #	<i>‡</i> 10)	
н	EATING	3		0.0	1.00	0.0	L1=	0.1	kVA	0.8	B AMPS			
С	OOLIN	G		0.0	1.00	0.0	L2=	0.0	kVA	0.0) AMPS			
VE	ENTILA	TION		0.0	1.00	0.0								
	OTORS			0.1	1.00	0.1				1	MAND	(NOTE #	ŧ10)	
	TCHEN			0.0	0.65		L1-	0.1	kVA		3 AMPS			
	-	10kVA)		0.0	1.00		L2-	0.0	kVA	0.0) AMPS			
	EC. (>10			0.0	0.50		-				F 12F0/		(10)	
	ISC.	HEATER	<u> </u>	0.0 0.0	1.00		L1=	0.1	kVA	MAND A) AMPS	(NOTE #	F 10)	
	ISC.			0.0	1.00		L2=	0.1	kVA) AMPS			
	PARE									0.0				

10. SEE LOAD SUMMARY TABLE ON THIS SHEET FOR CONNECTED AND DEMAND LOADS.

		MECH	ANICAL	EQUIPME	NT CO	NNECT	ION SCH	EDULE - 3 BEDRO	OM UNI	TS			
		EQUIPME	INT CHARAC					D	4				
TAG	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	KW	- FLA	MCA	МОСР	FEEDER	SIZE	POLE	FUSE	NEMA	NOTES
<u>AHU-3</u>	1 BEDROOM AIR HANDLER	240	1	-	-	26.4	30	3#10,1#10G,1"C	30	2	30	1	1
<u>HP-3</u>	1 BEDROOM HEAT PUMP	240	1	-	-	17	25	NOTE 3	30	2	25	3R	1,3
<u>EWH-1</u>	ELECTRIC WATER HEATER	240	1	9.60	-	-	50	3#6,1#10G,1"C	60	2	50	1	1
<u>EF-1</u>	BATHROOM EXHAUST FAN	120	1	0.05	-	-	-	2#12,1#12G,3/4"C	MOTOR SNAP SWITCH 1,2				
NOTES:													
1	COORDINATE ALL ROUGH-IN LO	CATIONS, CON	INECTION TY	PES, BREAKER	SIZES, ETC	C. WITH API	PROVED MEC	CHANICAL EQUIPMENT SUB	MITTALS PR	IOR TO RC	UGH-IN AI	ND	
	INSTALLATION. ALL ROUGH-INS SHALL BE REVIEWED AND APPROVED BY MECHANICAL CONTRACTOR.												
2	FAN POWERED VIA LOCAL LIGHT	ING CIRCUIT. (CONNECT TO	SWITCH SHO	WN ON EN	NLARGED U	INIT PLANS						
3	WIRE SIZE VARIES BASED ON DIS	TANCE FROM	LINIT DANEL			1P REFER T		PLANS AND SIZE EACH LINI					

/oltage (L-L): 240	Volts	Droi	ect Name:	Naples Road Apartments					
Phase: 240	VOILS	FIU	Project #:						
	Sq Ft			Matt Lewis					
	Jodut		•	3/13/2025					
LOAD	kVA	QTY	kVA	NOTES	1				
ighting Load	5.15	1	5.15	3 VA/SF					
Appliance Circuits	3.00	1	3.00	(2) Dedicated 20A Ckts (w/	GFCI-P)				
Sircuit	1.50	1	1.50	Dedicated 20A Ckt					
lange	8.00	1	8.00						
Dryer	5.00	1	5.00						
Cooling (240V)	5.72	1	5.72	Enter quentity for only the k	propert of th	20			
ressor (240V)	3.26	0	0.00	Enter quantity for only the la	-				
leat (240V)	2.00	0	0.00	following: "A/C and Cooling'					
pace Heat (240V)	0.00	0	0.00	strip heat), "Electric Space Thermal & Other Heating".	neal, or	Electric			
mal / Other (240V)	0.00	0	0.00						
ater (240V)	9.60	1	9.60						
ater (120V)	1.50	0	0.00						
er	0.80	1	0.80	(1) 20A Ckt for Dishwasher	& Disposa	ıl			
	1.00	1	1.00	(1) 20A Ckt for Dishwasher	& Disposa	d			
Э	1.50	1	1.50						
or	0.80	1	0.80	Examples of fastened in pla	ice applian	ices are			
	0.00	0	0.00	compactors, furnace motors	s, attic fan	s, water			
	0.00	0	0.00	pumps, etc. Add these app	liances in	dividually			
	0.00	0	0.00	where applicable.					
	0.00	0	0.00						
TOTAL CONNECT	ED LOAD	FOR UNIT	42.07	kVA					
DEMAND LOAD (PH				DEMAND LOAD (NEUT	RAL)				
A @ 100%	10.00			Small Appliance, Laundry	9.65				
ning @ 40%	10.5392		1st 3 kVA @ 100% 3.00 kV						
oling @ 100%	5.72			A to 120 kVA @ 35%	2.33				
ressor @ 100%		kVA		<va 25%<="" @="" td=""><td></td><td>kVA</td></va>		kVA			
Heat @ 65%		kVA		g L-N Loads @ 100%		kVA			
pace Heat @ 65%		kVA	Dryer Loa	•		kVA			
pace Heat @ 40%		kVA	-	ad @ 70%		kVA			
hermal & Other Heating	0.00	kVA	Unbalance	ed load > 200A @ 70%	0.00	kVA			
	26.26	kVA			17.41	kVA			
DEMAND LOAD (PHASE)	109.41	AMPS	TOTAL D	EMAND LOAD (NEUTRAL)	72.53	AMPS			
tity of 15A general lighting of	circuits (w/	AFCI-P) =	3	AMP RATING OF THE GEN		HTING A			
OR			-	RECEPTACLE CIRCUIT(S)					
itity of 20A general lighting of	circuits (w/	AFCI-P) =	3	INDICATED IN THE PANEL					
ing si zer i general lighting (-		55.1200				



	ENLARGED UNIT PLAN SYMBOLS LIST
Qv	DOUBLE GANG, RECESSED JUNCTION BOX FOR VANITY LIGHT FIXTURE. FIXTURE TO BE SELECTED BY OWNER. CONNECT TO CIRCUIT AND SWITCH SHOWN ON PLANS.
MC	MULTI CRITERIA DETECTOR. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES
Ś	MOTOR CONNECTION FOR BATHROOM EXHAUST FAN. PROVIDE DOUBLE GANG JUNCTION BOX AND 20A MOTOR RATED SWITCH FOR DISCONNECT. CONNECT TO RESTROOM LIGHT CIRCUIT AND CONTROL VIA SWITCH SHOWN ON PLANS
0	6" SURFACE MOUNTED DOWNLIGHT. 1,200 LUMENS. 3000K, 120V. BASED ON HALO 'SMD6'. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES
0 _F	CEILING FAN RATED JUNCTION BOX, CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES. FAN TO BE SELECTED BY OWNER
ß	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
₿s	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL TURN OFF SWITCH (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
ġ	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL VISUAL/AUDIBLE DEVICE (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
	FER TO OVERALL SYMBOL LEGEND ON COVER SHEET FOR SYMBOLS WN ABOVE

(##) KEYED NOTES:

. H.

Ι.

- DISHWASHER. COORDINATE EXACT LOCATION OF SWITCH WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. 2"EC WITH PULL STRING BACK TO BUILDING TELECOM DEMARC LOCATION.
- SPECIAL RECEPTACLE. EXACT TYPE, SIZE, ETC. SHALL BE COORDINATED WITH EQUIPMENT MANUFACTURER PRIOR TO ORDERING DEVICE. 3.
- OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR. RANGE HOOD POWER. COORDINATE EXACT LOCATION, REQUIREMENTS, ETC. WITH MANUFACTURER PRIOR TO ORDERING DEVICES AND ROUGH-IN. 6 CLOCK, AND PHOTOCELL. SEE DETAIL AND OVERALL PLAN FOR MORE INFORMATION.
- WITH ADJACENT UNIT SHALL NOT BE INSTALLED BACK TO BACK. COORDINATE WITH ARCHITECTURAL PLANS FOR UNITS THAT ARE REQUIRED TO HAVE HEARING IMPAIRED DEVICES.

ALL ADA UNITS SHALL HAVE 177CD HORN/STROBES IN BEDROOM/COMMON AREAS AND 15CD STROBE IN BATHROOMS. OUTLETS ARE NOT TO BE LOCATED BACK-TO-BACK IN COMMON WALLS BETWEEN ROOMS. VERIFY ALL LOCATIONS PRIOR TO ROUGH-IN.

ALL 15A AND 20A RECEPTACLES IN RESIDENT UNITS SHALL BE TAMPER RESISTANT. RECEPTACLES ABOVE KITCHEN COUNTERTOP SHALL BE MOUNTED HORIZONTALLY.

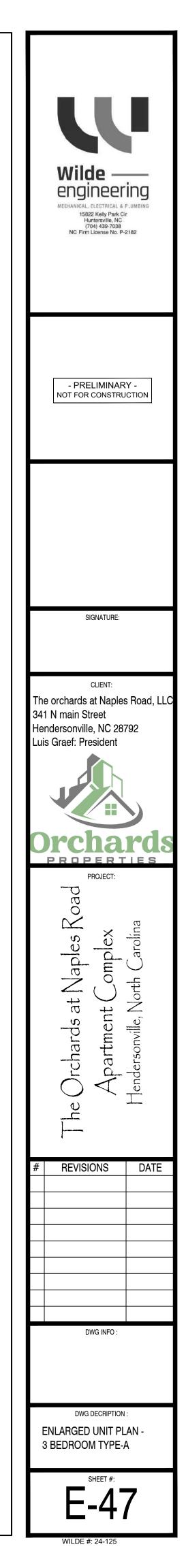
IN ACCESSIBLE UNITS, ALL LIGHTING CONTROLS, ELECTRICAL SWITCHES (INCLUDING CIRCUIT BREAKERS), AND RECEPTACLE OUTLETS SHALL BE MOUNTED WITHIN A REACH RANGE SPECIFIED IN ANSI A117I.1 SECTION 308. COORDIANTE ALL REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR.

1. PROVIDE GFI RECEPTACLE FOR GARBAGE DISPOSAL AND DISHWASHER UNDER SINK IN ACCESSIBLE LOCATION. PROVIDE SWITCH UNDER COUNTER FOR GARBAGE DISPOSAL AND 2. MEDIA ENCLOSURE. PROVIDE (2) DUPLEX RECEPTACLES AND MOUNT IN BOTTOM OF MEDIA ENCLOSURE. COORDINATE LOCATION AND HEIGHT IN FIELD WITH OWNER. PROVIDE

IN ACCESSIBLE UNITS, CONTRACTOR SHALL PROVIDE A REMOTE RANGE EXHAUST HOOD/LIGHT SWITCH, MOUNTED WITH AN ACCESSIBLE REACH RANGE. COORDINATE ALL REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK

EXTERIOR FIXTURE TO BE POWERED VIA HOUSE PANEL, SEE OVERALL PLAN FOR CIRCUIT DESIGNATION. FIXTURE TO BE CONTROLLED VIA EXTERIOR LIGHTING CONTACTOR, TIME TYPICAL UNIT PANEL LOCATION. SEE OVERALL PLANS FOR PANEL DESIGNATION FOR EACH UNIT AND POWER RISER DIAGRAM FOR PANEL/FEEDER SIZE. PANELS THAT SHARE WALL

JUNCTION BOX, MOTOR SNAP SWITCH AND POWER FOR DRYER BOOSTER FAN. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH M.C. PRIOR TO ROUGH-IN.



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TYPICAL LOAD SUMMARY FOR **3 BEDROOM, 3** BEDROOM TYPE-A, & 3 BEDROOM **ACCESSIBLE** UNITS

TYPICAL PANEL SCHEDULE FOR **3 BEDROOM ACCESSIBLE** UNITS

	NEW PANEL:						3-BDRM ACCESSIBLE								
			<u>Voltage:</u> <u>Phase / Wire:</u> <u>Amps:</u> <u>Aic:</u>		3W								<u>ng:</u> flush <u>Ain:</u> lugs		
AD /A	WIRE	TRIP	LOAD NAME			رين*	L1			2	*^*	LOAD NAME	TRIP	WIRE	load Kva
00	12	20	LIGHTING			1	•		/		2	REC - LIVING ROOM	20	12	0.00
00	12	20	REC - GENERAL			3					4	REC - KITCHEN	20	12	0.00
00	12	20	REC - KITCHEN			5		-	-1	~	6	REFRIGERATOR (NOTE #7)	20	12	0.00
00	12	20	RANGE HOOD			7	$-\uparrow$		-		8	DISHWASHER (NOTE #7)	20	12	0.00
00	12	20	DISPOSAL			9				/	10	RANGE	50	6	0.00
00	12	20	REC - MASTER BEDR	MOOM		11	$\vdash \uparrow$				12	KANGL	50	6	0.00
00	12	20	MASTER BATHROON	Λ		13	•		+	~	14	-AIR HANDLER	30	10	0.00
00	12	20	FAN - MASTER BEDR	ROOM		15	$\vdash \uparrow$				16		50	10	0.00
10	12	20	DRYER BOOSTER FA	N		17	$\vdash \bullet$		+	~	18	HEAT PUMP	25	8	0.00
00	12	20	WASHER (NOTE #7)			19		-	-		20		25	8	0.00
00	12	20	TELECOM BOX			21	└ ●		+1		22	DRYER	30	10	0.00
00	12	20	TELECOM BOX			23		+	-		24		50	10	0.00
00	12		FIRE ALARM (NOTE #	-		25	•-		± 1	<u> </u>	26	-WATER HEATER	50	6	0.00
00	12	20	REC - BEDROOM #2			27	$\vdash \frown$		-		28		50	6	0.00
00	12	20	BATHROOM #2			29	•			~	30	SPARE	20		0.00
00	12	20	FAN - BEDROOM #2			31	$\vdash \frown$		-		32	REC - BEDROOM #3	20	12	
00	12	20	FAN - BEDROOM #3			33	•	_	-1		34	SPARE	20		
		20	SPARE			35	$\vdash \uparrow$		-		36	SPARE	20		
		20	SPARE			37			1	Ź	38	SPARE	20		
		20	SPARE			39	$\vdash \frown$				40	SPARE	20		
		20	SPARE			41			+		42	SPARE	20		
0.1								SUB TOT	ALS						0.0
		LOA	D (kVA)	Conn.	D.F.	Dmd.				тс	OTAL LO	AD PER PHASE			
	LIGHTS			0.0	1.25	0.0)				CON	NECTED	(NOTE #	#10)	
	HEATIN			0.0	1.00		L1 =	0.1				B AMPS			
	COOLIN			0.0	1.00		L2=	0.0	kVA		0.0) AMPS			
	VENTILA			0.0	1.00	0.0								#10	
	MOTOR			0.1 0.0	1.00 0.65	0.1	L1-	0.1	kVA	Т		MAND 3 AMPS		+ IU)	
	REC. (1st			0.0	1.00		L1-	0.1) AMPS			
	REC. (>1			0.0	0.50	0.0	-	0.0	NY/Y		0.0				
				MAND A1	 D AT 125% (NOTE #		#10)								
			1.00		L1=	0.1		1) AMPS	,				
	SPARE			0.0	1.00		L2=	0.0			0.0) AMPS			
DTES:															
1.	BREAKEF	R FRAME	SHALL BE AS REQ'D	PER PANEL	AIC RATIN	IG.									
2.	SHALL BI	E FULLY	RATED - SERIES RATII	NGS NOT A	LLOWED.										
		-	CL GND AND NEUTR												
			ANEL AND BRKR LUG												
			DOOR-IN-DOOR W	ITH OUTER	DOOR LO	CK.									
			DIRECTORY FRAME.												
7.	PROVIDE	CLASS	A GFI (6mA-PERSONN	IEL) BRKR (2	250' MAX)										

8. PROVIDE HANDLE LOCK-ON DEVICE. BREAKER SHALL BE RED.

9. PROVIDE AFCI (ARC FAULT CIRCUIT INTERRUPTING) BREAKER FOR ALL DWELLING UNIT CIRCUITS.

10. SEE LOAD SUMMARY TABLE ON THIS SHEET FOR CONNECTED AND DEMAND LOADS.

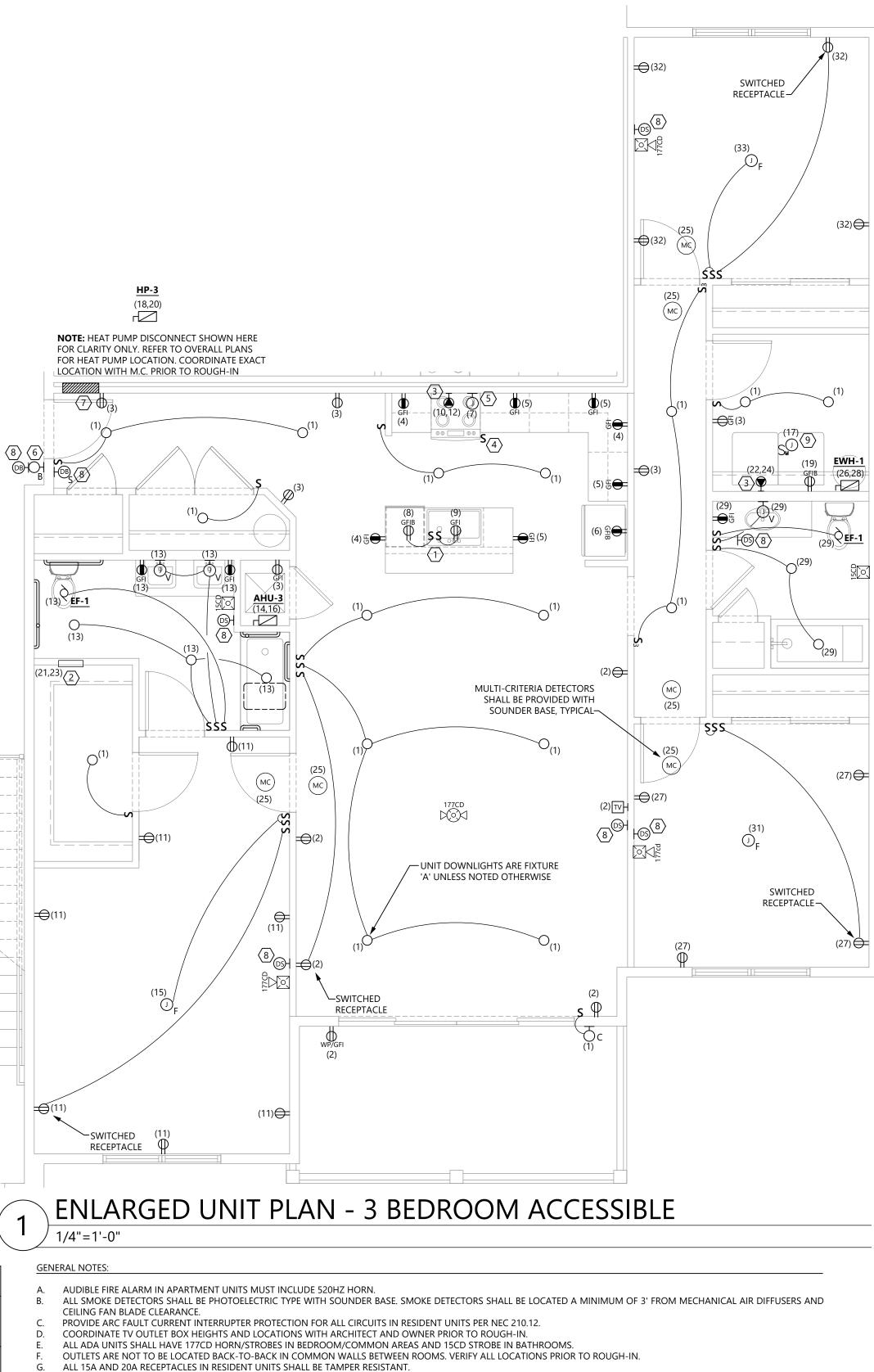
MECHANICAL EQUIPMENT CONNECTION SCHEDULE - 3 BEDROOM UNITS

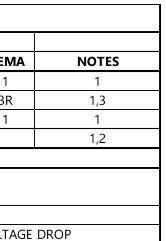
		EQUIPME	FLA	МСА	моср	FEEDER	DISCONNECT SWITCH					
TAG	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	KW		IVICA	IVIOCP	FEEDER	SIZE	POLE	FUSE	NEM
<u>AHU-3</u>	1 BEDROOM AIR HANDLER	240	1	-	-	26.4	30	3#10,1#10G,1"C	30	2	30	1
<u>HP-3</u>	1 BEDROOM HEAT PUMP	240	1	_	-	17	25	NOTE 3	30	2	25	3R
<u>EWH-1</u>	ELECTRIC WATER HEATER	240	1	9.60	-	-	50	3#6,1#10G,1"C	60	2	50	1
<u>EF-1</u>	BATHROOM EXHAUST FAN	120	1	0.05	-	-	-	2#12,1#12G,3/4"C	N	10TOR SN	AP SWITCH	4
NOTES:												
1	COORDINATE ALL ROUGH-IN LOC	CATIONS CON	INECTION T	VPES BREAKER	SIZES ETC		PROVED ME	CHANICAL FOUIPMENT SUBN	AITTALS PR		UGH-IN AI	ND

COORDINATE ALL ROUGH-IN LOCATIONS, CONNECTION TYPES, BREAKER SIZES, ETC. WITH APPROVED MECHANICAL EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN AND INSTALLATION. ALL ROUGH-INS SHALL BE REVIEWED AND APPROVED BY MECHANICAL CONTRACTOR. FAN POWERED VIA LOCAL LIGHTING CIRCUIT. CONNECT TO SWITCH SHOWN ON ENLARGED UNIT PLANS 2

WIRE SIZE VARIES BASED ON DISTANCE FROM UNIT PANEL TO EXTERIOR HEAT PUMP. REFER TO OVERALL PLANS AND SIZE EACH UNIT HEAT PUMP TO ACCOUNT FOR VOLTAGE DROP

ITE: 3BDRM, 3BDRM	1 TYPE-A, 3	BDRINI ACC	ESSIBLE	(Option	al Calc	ulation		
U ()	Volts	Proj	ject Name:					
Phase: 1			Project #:					
oor Area: 1716	Sq Ft		•	Matt Lewis				
			Date:	3/13/2025				
LOAD	kVA	QTY	kVA	NOTES				
ting Load	5.15	1	5.15	3 VA/SF				
pliance Circuits	3.00	1	3.00	(2) Dedicated 20A Ckts (w/ 0	GFCI-P)			
uit	1.50	1	1.50	Dedicated 20A Ckt				
ge	8.00	1	8.00					
r	5.00	1	5.00					
ling (240V)	5.72	1	5.72	Enter quantity for only the la	raest of th	he		
sor (240V)	3.26	0	0.00	following: "A/C and Cooling",	-			
: (240V)	2.00	0	0.00	strip heat), "Electric Space I				
e Heat (240V)	0.00	0	0.00	Thermal & Other Heating".		_100110		
I / Other (240V)	0.00	0	0.00					
r (240V)	9.60	1	9.60					
r (120V)	1.50	0	0.00					
	0.80	1	0.80	(1) 20A Ckt for Dishwasher &	& Disposa	d		
	1.00	1	1.00	(1) 20A Ckt for Dishwasher &	& Disposa	ıl		
	1.50	1	1.50					
	0.80	1	0.80	Examples of fastened in place				
	0.00	0	0.00	compactors, furnace motors,				
	0.00	0	0.00	pumps, etc. Add these appl	iances in	dividually		
	0.00	0	0.00	where applicable.				
	0.00	0	0.00					
TOTAL CONNECT	ED LOAD		42.07	kVA				
DEMAND LOAD (PH	•			DEMAND LOAD (NEUTI	RAL)			
ጋ 100%	10.00			Small Appliance, Laundry	9.65			
g @ 40%	10.5392		11	kVA @ 100% 3.00				
g @ 100%	5.72			A to 120 kVA @ 35%	2.33			
sor @ 100%		kVA	11	<va 25%<="" @="" td=""><td>0.00</td><td></td></va>	0.00			
it @ 65%		kVA		g L-N Loads @ 100%	4.10			
ce Heat @ 65%		kVA	Dryer Loa	-	3.50			
ce Heat @ 40%		kVA		ad @ 70%	4.48			
mal & Other Heating	0.00	kVA	Unbalance	ed load > 200A @ 70%	0.00	kVA		
MAND LOAD (PHASE)	26.26			EMAND LOAD (NEUTRAL)	17.41			
	109.41	AMPS			72.53	AMPS		
of 15A general lighting	circuits (w/	AFCI-P) =	3	AMP RATING OF THE GEN	ERAL LIG	HTING 8		
OR				RECEPTACLE CIRCUIT(S) \$	SHALL BE	EAS		
of 20A general lighting o	circuits (w/	AFCI-P) =	3	INDICATED IN THE PANEL	SCHEDU	LES.		
`				•				





₽v	DOUBLE GANG, RECESSED JUNCTION BOX FOR VANITY LIGHT FIXTURE. FIXTURE TO BE SELECTED BY OWNER. CONNECT TO CIRCUIT AND SWITCH SHOWN ON PLANS.
MC	MULTI CRITERIA DETECTOR. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES
Q	MOTOR CONNECTION FOR BATHROOM EXHAUST FAN. PROVIDE DOUBLE GANG JUNCTION BOX AND 20A MOTOR RATED SWITCH FOR DISCONNECT. CONNECT TO RESTROOM LIGHT CIRCUIT AND CONTROL VIA SWITCH SHOWN ON PLANS
0	6" SURFACE MOUNTED DOWNLIGHT. 1,200 LUMENS. 3000K, 120V. BASED ON HALO 'SMD6'. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES
() _F	CEILING FAN RATED JUNCTION BOX, CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES. FAN TO BE SELECTED BY OWNER
œ	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
₿s	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL TURN OFF SWITCH (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
ø	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL VISUAL/AUDIBLE DEVICE (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
	FER TO OVERALL SYMBOL LEGEND ON COVER SHEET FOR SYMBOLS WN ABOVE

(##) KEYED NOTES:

2"EC WITH PULL STRING BACK TO BUILDING TELECOM DEMARC LOCATION.

OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR.

WITH ADJACENT UNIT SHALL NOT BE INSTALLED BACK TO BACK.

ENLARGED UNIT PLAN SYMBOLS LIST

RECEPTACLES ABOVE KITCHEN COUNTERTOP SHALL BE MOUNTED HORIZONTALLY.

IN ACCESSIBLE UNITS, ALL LIGHTING CONTROLS, ELECTRICAL SWITCHES (INCLUDING CIRCUIT BREAKERS), AND RECEPTACLE OUTLETS SHALL BE MOUNTED WITHIN A REACH RANGE SPECIFIED IN ANSI A117I.1 SECTION 308. COORDIANTE ALL REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR.

1. PROVIDE GFI RECEPTACLE FOR GARBAGE DISPOSAL AND DISHWASHER UNDER SINK IN ACCESSIBLE LOCATION. PROVIDE SWITCH UNDER COUNTER FOR GARBAGE DISPOSAL AND DISHWASHER. COORDINATE EXACT LOCATION OF SWITCH WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. MEDIA ENCLOSURE. PROVIDE (2) DUPLEX RECEPTACLES AND MOUNT IN BOTTOM OF MEDIA ENCLOSURE. COORDINATE LOCATION AND HEIGHT IN FIELD WITH OWNER. PROVIDE

SPECIAL RECEPTACLE. EXACT TYPE, SIZE, ETC. SHALL BE COORDINATED WITH EQUIPMENT MANUFACTURER PRIOR TO ORDERING DEVICE. IN ACCESSIBLE UNITS, CONTRACTOR SHALL PROVIDE A REMOTE RANGE EXHAUST HOOD/LIGHT SWITCH, MOUNTED WITH AN ACCESSIBLE REACH RANGE. COORDINATE ALL REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK

RANGE HOOD POWER. COORDINATE EXACT LOCATION, REQUIREMENTS, ETC. WITH MANUFACTURER PRIOR TO ORDERING DEVICES AND ROUGH-IN. EXTERIOR FIXTURE TO BE POWERED VIA HOUSE PANEL, SEE OVERALL PLAN FOR CIRCUIT DESIGNATION. FIXTURE TO BE CONTROLLED VIA EXTERIOR LIGHTING CONTACTOR, TIME CLOCK, AND PHOTOCELL. SEE DETAIL AND OVERALL PLAN FOR MORE INFORMATION. TYPICAL UNIT PANEL LOCATION. SEE OVERALL PLANS FOR PANEL DESIGNATION FOR EACH UNIT AND POWER RISER DIAGRAM FOR PANEL/FEEDER SIZE. PANELS THAT SHARE WALL COORDINATE WITH ARCHITECTURAL PLANS FOR UNITS THAT ARE REQUIRED TO HAVE HEARING IMPAIRED DEVICES.

JUNCTION BOX, MOTOR SNAP SWITCH AND POWER FOR DRYER BOOSTER FAN. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH M.C. PRIOR TO ROUGH-IN.



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