A	AMP	HP	HEAT PUMP
AFF	ABOVE FINISHED FLOOR	LA	LIGHTNING ARRESTOR
AHU	AIR HANDLING UNIT	IG	ISOLATED GROUND
С	CONDUIT	JB	JUNCTION BOX
СВ	CIRCUIT BREAKER	KW	KILOWATT
CKT	CIRCUIT	KVA	KILOVOLT AMPERE
CR	CONTROL RELAY	MLO	MAIN LUG ONLY
CU	COPPER	NC	NURSE CALL
DETD	DUAL ELEMENT TIME DELAY	NEC	NATIONAL ELECTRIC CODE
DPS	DOOR POSITION SWITCH	NEMA	NATIONAL ELECTRICAL MANUF. ASSOC.
EX	EXISTING TO REMAIN	NL	NIGHT LIGHT
ECB	ENCLOSED CIRCUIT BREAKER	OL	OVERLOAD
EF	EXHAUST FAN	РВ	PUSHBUTTON MOMENTARY CONTACT SWITCH
EM	EMERGENCY	RAIL	REMOTE ALARM INDICATOR LIGHT
ER	EXISTING TO BE RELOCATED	RGS	RIGID GALVANIZED STEEL CONDUIT
EWC	ELECTRIC WATER COOLER	RHC	REHEAT COIL
EWH	ELECTRIC WATER HEATER	RTU	ROOF TOP UNIT
GFI	GROUND FAULT INTERRUPTER	TC	TIME CLOCK
GND OR G	GROUND	UH	UNIT HEATER
and on a	ancons	UNO	UNLESS NOTED OTHERWISE
		٧	VOLT
		WP	WEATHERPROOF
		XFMR	TRANSFORMER
		, , , , , , , , , , , , , , , , , , ,	THE STATE OF THE S

### GENERAL ELECTRICAL NOTES

- 1. COMPLY WITH APPLICABLE REQUIREMENTS OF THE 2011 NEC AND ALL LOCAL AND STATE CODES. 2. CONTRACTORS SHOULD VISIT SITE TO FAMILIARIZE THEMSELVES WITH CONDITIONS TO BE MET IN THE EXECUTION OF THE WORK UNDER THIS CONTRACT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CHANGES THAT MAY BE REQUIRED DUE TO EXISTING CONDITIONS.
- 3. COORDINATE EXACT ELECTRICAL DEVICE LOCATION WITH PLUMBING AND MECHANICAL DRAWINGS TO INSURE REQUIRED CLEARANCE ABOVE AND AROUND EQUIPMENT. COORDINATE WITH CASEWORK, AND EQUIPMENT PROVIDED PRIOR TO ROUGH-IN OF ELECTRICAL DEVICES.
- 4. LOADCENTERS SHALL BE AS DESCRIBED ON THE DRAWINGS. 5. ALL CONDUCTORS SHALL BE COPPER. WITH THHN/THWN-2 INSULATION. CONDUCTORS #10 AND
- SMALLER SHALL BE SOLID, CONDUCTORS #8 AND LARGER SHALL BE STRANDED. 6. ALL BRANCH CIRCUIT WIRES TO BE SIZED AT MINIMUM #12 WITH #12 GROUND UNLESS SHOWN
- OTHERWISE OR REQUIRED TO BE LARGER BECAUSE OF THE LOAD.
- 7. CONCEALED BRANCH CIRCUIT WIRING MAY BE TYPE NM, NMC, COLOR CODED
- 8. USE LIQUID TIGHT FLEXIBLE CONDUIT FOR ALL EQUIPMENT SUBJECT TO VIBRATION.
- 9. INSTALL ENGRAVED, LAMINATED ACRYLIC OR MELAMINE ADHESIVE BACKED LABELS ON ALL SAFETY SWITCHES AND CONTROL PANELS. FOR SAFETY SWITCHES IDENTIFY THE EQUIPMENT BEING SERVED I.E. "HP-2". LABELS SHALL HAVE WHITE LETTERS ON A BLACK BACKGROUND. MINIMUM SIZE LETTERS IS 3/8".
- 10. MOUNT RECEPTACLES AT 18" AFF TO BOTTOM, MOUNT LIGHT SWITCHES AT 45" TO BOTTOM UNLESS OTHERWISE NOTED.
- 11. COORDINATE WITH MECHANICAL ON EXACT LOCATION AND ELECTRICAL CONNECTION REQUIREMENTS FOR HVAC EQUIPMENT.
- 12. ELECTRICAL REQUIREMENTS FOR HVAC EQUIPMENT ARE FOR HVAC EQUIPMENT SPECIFIED. IF SUBSTITUTE HVAC EQUIPMENT IS SUPPLIED, CONTRACTOR IS RESPONSIBLE FOR MODIFICATIONS AND/OR ADDITIONS TO ELECTRICAL REQUIREMENTS OF HVAC EQUIPMENT SUPPLIED AT NO COST TO THE OWNER.
- 13. CONTRACTOR SHALL VERIFY THAT ALL DOOR SWINGS ARE CORRECT BEFORE ROUGHING IN LIGHT SWITCH OUTLETS. LIGHT SWITCHES SHALL NOT BE LESS THAN 3 NOR MORE THAN 12 INCHES FROM DOOR TRIM.
- 14. MOUNT ALL WALL MOUNTED TELEPHONE/DATA/CATV/INTERNET OUTLETS AT 18" AFF TO BOTTOM, UNLESS OTHERWISE NOTED.
- 15. ALL RECEPTACLES AND LIGHT SWITCHES SHALL BE COMMERCIAL SPECIFICATION GRADE, IVORY COLOR WITH IVORY COLOR COVER PLATES.
- 16. THE INTENT OF THE ELECTRICAL DESIGN FOR THE HOUSING UNITS IS TO PROVIDE AND INSTALL RESIDENTIAL GRADE LIGHTING FIXTURES AND RESIDENTIAL GRADE LOADCENTERS WITH PLUG-ON CIRCUIT BREAKERS.
- 17. ALL SAFETY SWITCHES ARE GENERAL DUTY, 240 VOLT, 2-POLE, 30 AMP RATING. INTERIOR SWITCHES ARE NEMA 1 AND EXTERIOR ARE NEMA 3R. FUSE SWITCHES PER THE LOAD REQUIREMENTS.
- 18. INSTALL SEPARATE RUNS FOR THE INTERNET, EACH TV CABLE AND TELEPHONE OUTLET FROM ITS OUTLET TO THE TERMINATION POINT ON THE EXTERIOR OF THE BUILDING. THE TERMINATION POINT SHALL BE CLOSE TO THE POWER COMPANY METER. LEAVE 18" OF CABLE LENGTH BEYOND THE EXTERIOR WALL. FINAL CONNECTIONS OF THE CABLES SHALL BE BY THE INTERNET, CABLE AND TELEPHONE COMPANIES. COORDINATE WITH THESE COMPANIES ON INSTALLATION OF THESE
- 19. CABLE TV CABLE SHALL BE RG6, TELEPHONE AND INTERNET CABLES SHALL BE CAT 5E.
- 20. ALL RECEPTACLES IN LIVING ROOM, BEDROOMS, LAUNDRY SHALL BE TAMPER RESISTANT (TR).
- 21. ALL OUTDOOR RECEPTACLES SHALL BE GFCI, WEATHER RESISTANT (WR), TAMPER RESISTANT (TR)
- AND INSTALLED WITH A "WEATHER PROOF WHILE IN USE" COVER.
- 22. ALL OUTLET BOXES SHALL BE SEALED TO GWB. EXCESS SEALANT IN BOXES IS NOT ACCEPTABLE.
- 23. MECHANICALLY SEAL ALL WIRE AND CONDUIT PENETRATIONS.
- 24. FURNISH SPRINKLER CONTROL PANEL WITH 13R SPRINKLER SYSTEM. PROVIDE 120V CIRCUIT TO SPRINKLER PANEL. SEE UNIT PANEL SCHEDULES.

UNDER	CABINET	0R	CHANNEL	FIXTURE,	TYPE AS	INDICATED

B CEILING FIXTURE, TYPE AS INDICATED

WALL FIXTURE, TYPE AS INDICATED

SHADING DENOTES "NIGHT LIGHT" FIXTURE. CONNECT TO NON-SWITCHED SIDE OF CIRCUIT IN DESIGNATED AREA.



WALL MOUNTED EXTERIOR LIGHT FIXTURE, TYPE AS INDICATED

"E" INDICATES EXIT LIGHT-EMERGENCY LIGHT COMBINATION UNIT



EXIT SIGN, SHADING INDICATES FACE DIRECTION, ARROW INDICATES DIRECTION.



SELF CONTAINED EMERGENCY LIGHT, MOUNT AT 7'6" AFF TO TOP OF FIXTURE

REMOTE LAMP FROM EMERGENCY LIGHT, U.L. LISTED WET LOCATION,

- MOUNT AT 8'-0" AFF MATCH SELF CONTAINED UNIT LAMPS. "C" INDICATES CEILING MOUNT. LIGHT SWITCH, SINGLE POLE DEVICE, 20 AMP, 120/277 VOLT, FLUSH MOUNT
- LIGHT SWITCH, THREE WAY DEVICE, 20 AMP, 120/277 VOLT, FLUSH

50" AFF TO TOP OF BOX. "D" INDICATES DIMMER SWITCH.

- LIGHT SWITCH, DIMMING, LOW VOLTAGE, FOR LED FIXTURES MOUNT 50" AFF TO TOP OF BOX.
- VACANCY SENSOR LIGHT SWITCH, 20 AMP, 120/277 VOLT, SURFACE MOUNT INSTALL 50" AFF TO TOP OF BOX. MANUAL ON, AUTO OFF.
- LIGHT SWITCH, DIMMING, MOUNT 50" AFF TO TOP OF BOX.
- 120 V, 3 W, 20 AMP, DUPLEX CONVENIENCE RECEPTACLE, FLUSH MOUNT 20" AFF TO TOP OF BOX, NEMA 5-20R, "G" INDICATES GFCI, "WC" INDICATES WATER COOLER
- 120 V, 3-W, 20 AMP, DUPLEX CONVENIENCE RECEPTACLE, FLUSH MOUNT 6" ABOVE COUNTERTOP OR BACKSPLASH AS APPLICABLE, TO TOP OF BOX, "G" INDICATES GFCI, "WC" INDICATES WATER COOLER
- 120 V, 3 W, 20 AMP, QUADRAPLEX RECEPTACLE, (4) NEMA 5-20R FLUSH MOUNT DEVICES ON 1 PLATE 20" AFF TO TOP OF BOX. MOUNT DEVICES IN 4"X4" SURFACE BOXES IN CONCEALED CASEWORK WITH EQUIPMENT
- SPECIAL PURPOSE RECEPTACLE, COORDINATE RECEPTACLE REQUIREMENTS WITH APPLIANCE MANUFACTURER.



CIRCUIT HOME RUN AND CONNECTION TO DEVICE, HASH MARKS INDICATE NUMBER OF CONDUCTORS EXCEPT GROUNDS. ARROW HEADS INDICATE NUMBER OF CIRCUITS. PANEL DESIGNATION AS INDICATED. BRANCH CONDUCTORS ARE #12 AWG COPPER.



JUNCTION BOX / PULL BOX, "C" INDICATES FLUSH CEILING MOUNT



ELECTRIC MOTOR, HP/KW, VOLTAGE, AND PHASE AS INDICATED

MAGNETIC MOTOR STARTER WITH OVERLOADS & DISCONNECT SWITCH

MANUAL MOTOR STARTER WITH OVERLOAD PROTECTION, SURFACE MOUNT, NEMA 1, AS INDICATED.

SAFETY SWITCH, HEAVY DUTY, FUSIBLE OR NON-FUSIBLE, POLES AS REQUIRED,

SAFETY SWITCH AND/OR MOTOR STARTER-FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR

CONTACTOR NUMBER AS INDICATED

GENERAL NOTE

KEYED NOTE

DOOR PUSH BUTTON

SMOKE DETECTOR

REMOTE VACANCY SENSOR, CEILING MOUNTED, CONNECT TO LIGHTING CIRCUIT IN AREA SHOWN. LIGHTS TO BE MANUAL ON/AUTO OFF.

FIRE ALARM MANUAL PULL STATION. FLUSH MOUNT 48" AFF TO TOP OF BOX.

FIRE ALARM HORN/STROBE LIGHT, MOUNT 92 1/2" AFF TO TOP OF BOX

FIRE ALARM STROBE LIGHT, MOUNT 92 1/2" AFF TO TOP OF BOX

AND INTERNET CONNECTION, MOUNT 20" AFF TO TOP

TELEPHONE/INTERNET OUTLET. MOUNT AT 20" AFF TO TOP, UNO. VIDEO/INTERNET OUTLET WITH 2 "F" CONNECTORS FOR CABLE TELEVISION

VIDEO OUTLET WITH "F" CONNECTOR FOR CABLE TELEVISION CONNECTION. MOUNT 20" AFF TO TOP

· | GROUND

			LAMPS	1				MANUFACTURER AND	
SYMBOL	INPUT VOLTS	NUM.	WATTS	TYPE	TOTAL WATTS	МТЭ	DESCRIPTION AND DETAILS	MODEL NUMBER*	
A	120	-	23	LED	23	SURF	17" DIAMETER, CAST ALUMINUM WITH POLYCARBONATE LENS, WET LOCATION RATED, ENERGY STAR RATED	LITHONIA FMDCGLI6	
В	120	-	39	LED	39	SURF	4'x8", ALUMINUM CONSTRUCTION WITH OPAL POLYCARBONATE LENS, VANDAL RESISTANT, STANDARD ILLUMINATION LEVEL, 4000K	COOPER HVL8 4 LD3   STD 40	
C	120	-	17	LED	17	SURF	I3" DIAMETER, ROUND STEEL CONSTRUCTION WITH ETCHED GLASS BOWL AND STEEL FINIAL, 3000k, ENERGY STAR RATED	PROGRESS P2305	
D	120	-	17	LED	17	SURF	II" DIAMETER, ROUND STEEL CONSTRUCTION WITH ETCHED GLASS BOWL AND STEEL FINIAL, 3000k, ENERGY STAR RATED	PROGRESS P2304	
E	120	-	40	LED	40	WALL	4 LAMP VANITY, 3000K, ENERGY STAR RATED	ROYAL PACIFIC 4902BA-4	
F	120	-	30	LED	30	WALL	3 LAMP VANITY, 3000K, ENERGY STAR RATED	ROYAL PACIFIC 4902BA-3	
6	120	-	17	LED	17	SURF	7-I/2" DIAMETER, ROUND METAL WITH FROSTED GLASS DOME, ENERGY STAR RATED	PROGRESS P3408	
HI, H2, H3	120	-	5, 8, 10	LED	5, 8, 10	SURF	UNDER CABINET LIGHT, ALUMINUM HOUSING AND END CAPS, HI IS 9" LONG, H2 IS I8" LONG, H3 IS 24" LONG, ENERGY STAR RATED	COOPER HALO HUIO	
٦	120	-	II	LED	II	REC	RECESSED DOWNLIGHT, NON-IC, 600 LUMEN OUTPUT, TRIM TO BE SELECTED BY ARCHITECT, RATED FOR WET LOCATION, ENERGY STAR RATED	LITHONIA L7 XLED	
K	120	-	36	LED	36	SURF	IX4 WOOD FRAME WITH ACRYLIC DIFFUSER, ENERGY STAR RATED	LITHONIA LED CAMBRIDGE	
М	120	-	16	LED	16	SURF	24" STEEL AND ACRYLIC OVER SINK LIGHT. ENERGY STAR RATED	BROWNLEE 5010 LED	
P	120	-	9	LED	9	WALL	7-1/2" HIGH X II" DECORATIVE PORCH LIGHT, METAL AND TEXTURED GLASS, ENERGY STAR RATED	PROGRESS P6068-3 30	

⊗	120	-	5	LED	5	FLUSH/ SURF/ END	EDGE LIT LED, MOLDED ACRYLIC EXIT SIGN, ALUMINUM HOUSING, NI-CAD BATTERY, SELF-CONTAINED, RED LETTERS, ARROW INDICATES DIRECTION TO EXIT, FLUSH, SURFACE, OR EDGE MOUNT (SEE DRAWING)	MULE LIGHTING RENAISSANCE
<b>—</b>	120	-	2	LED	2	SURF	EMERGENCY LIGHT, WHITE THERMOPLASTIC HOUSING, NI-CAD BATTERY, SELF-CONTAINED, HIGH OUTPUT BATTERY "HO" ON UNITS THAT SUPPLY A REMOTE LAMP	LITHONIA ELM2-LED-HO

## EQUIPMENT LIST FOR DWELLING UNITS

APARTMENT LOADCENTER: 200 AMP RATING, 120/240 VOLT 1-PHASE, 3-WIRE, 200 AMP MAIN CIRCUIT BREAKER, 22,000 AMP SHORT CIRCUIT RATING, 40 POLE SPACE, PLUG-ON BREAKERS, FLUSH MOUNT, UL LISTED FOR SERVICE ENTRANCE, EQUAL TO SQUARE D QO, NO 1/2 WIDTH OR TANDEM CIRCUIT BREAKERS.

BRHA LOADCENTER: 100 AMP RATING, 120/240 VOLT 1-PHASE, 3-WIRE, 100 AMP MAIN CIRCUIT BREAKER, 22,000 AMP SHORT CIRCUIT RATING, 30 POLE SPACE, PLUG-ON BREAKERS, SURFACE MOUNT, UL LISTED FOR SERVICE ENTRANCE, (3) 2P-20A BRANCH CIRCUIT BREAKERS, (2) 1P-15A BREAKERS FOR CONTROL CIRCUITS. EQUAL TO SQUARE D QO, NO 1/2 WIDTH OR TANDEM CIRCUIT BREAKERS.

LIGHTNING ARRESTER: 175 VOLTS AC PHASE TO GROUND MAXIMUM

SMOKE DETECTOR: IONIZATION TYPE, 120 VOLT WITH BATTERY BACK-UP, CEILING MOUNT, INTERCONNECTABLE SUCH THAT IF ONE ALARM ACTIVATES THE OTHER SMOKE DETECTOR ALARMS ACTIVATE, EQUAL TO BRK MODEL 9120B

SMOKE DETECTOR WITH STROBE LIGHT: IONIZATION TYPE, 120 VOLT HARD WIRED WITH BATTERY BACK-UP, CEILING MOUNT, BUILT-IN FLASHING STROBE LIGHT, 177 cd ADA COMPLIANT, INTERCONNECTABLE SUCH THAT IF ONE ALARM ACTIVATES THE OTHER SMOKE DETECTOR ALARMS ACTIVATE, EQUAL TO BRK MODEL 7109CS-C

TELEPHONE STROBE LIGHT: ADA COMPLIANT, 8,000 CANDLEPOWER FLASH, UL STANDARD 1459 LISTED, WALL MOUNT, EQUAL TO BRK, WHEELLOCK, HARIS COMMUNICATIONS

BVU WITH ENTRANCE RACEWAY TO BVU REQUIREMENTS BY THE CONTRACTOR.

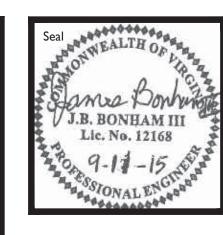
DOORBELL HORN/STROBE LIGHT: ADA COMPLIANT FOR HEARING/VISUALLY, IMPAIRED, HARDWIRED, DUAL AUDIO AND VISUAL ALARMS, 90db ALARM, 110cd FLASHING STROBE,

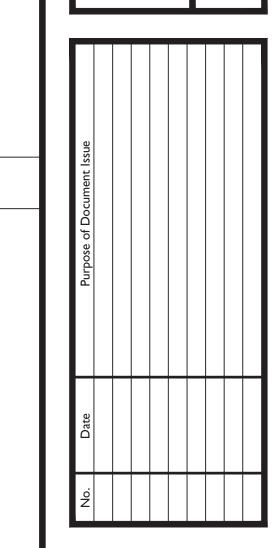
ON/OFF SWITCH, FLUSH MOUNT, VANDAL PROOF 16GA STAINLESS STEEL FACEPLATE, EQUAL TO HOUSING DEVICES, INC ADA 121

HVAC OUTDOOR DISCONNECT: 2P-30A 240V, NEMA-3R, GENERAL DUTY DISCONNECT SAFETY SWITCH. FUSE PER MANUFACTURERS RECOMMENDED FUSE SIZE. EQUAL TO SQUARE D.

METER CENTER WITH UTILITY METER: SOCKETS AND MAIN CIRCUIT BREAKER AS SERVICE ENTRANCE DISCONNECTS. PROVIDE 2, 3, AND 4 GANG METER CENTERS, 120/240V, SINGLE PHASE, 3 WIRE, AS INDICATED ON EACH APARTMENT RISER. PROVIDE SERVICE LATERALS AND METER CENTER AT 400A FOR

DUPLEX BUILDING AND 600 AMPS FOR QUAD APARTMENT BUILDING. SERVICE LATERALS PROVIDED BY





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Date	SEP. 11, 2015
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# ELECTRICAL NOTES

- 1. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE LOCAL BVU UTILITIES IN THE INSTALLATION OF THE ELECTRIC SERVICE AND OTHER SERVICES SUCH AS TELEPHONE AND COMMUNICATIONS.
- 2. BVU WILL PROVIDE TRENCHING, UNDERGROUND HIGH VOLTAGE AND LOW VOLTAGE CABLING, DUCT BANK EXCAVATION AND BACKFILL FOR ALL ON SITE PRIMARY AND SECONDARY POWER SERVICE, TELEPHONE SERVICE, AND DATA SERVICE, INCLUDING RACEWAY AS REQUIRED.
- 3. BVU WILL PROVIDE AND INSTALL PAD MOUNT TRANSFORMER PADS, TRANSFORMERS, AND SECONDARY SERVICES TO THE METER PACKS. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE METER PACKS.
- 4. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL WIRING AND RACEWAYS FOR UNDERGROUND SITE LIGHTING BRANCH
- CIRCUITS AS SHOWN, INCLUDING TRENCHING AND BACKFILL. 5. SITE LIGHTING CONDUITS SHALL CONFORM TO AND BE INSTALLED IN ACCORDANCE WITH THE NEC. THE CONDUITS SHALL BE 1"
- PVC INSTALLED AT 30" BELOW GRADE. 6. LIGHT POLES SHALL BE SET PLUMB.
- 7. COMMUNICATION CABLES, CONDUIT, PEDESTALS AND TERMINATIONS SHALL BE PROVIDED BY UTILITY COMPANIES.
- 8. ALL SITE BRANCH WIRING CONDUCTORS SHALL BE #10 THWN WITH GROUND IN 1" PVC CONDUIT.
  9. CONTRACTOR SHALL COORDINATE WITH BVU AND BRHA FOR EXACT LOCATIONS OF SERVICE ENTRANCES FOR EACH BUILDING AND LOCATIONS OF TRANSFORMERS, TELEPHONE, AND TV DEMARCS.

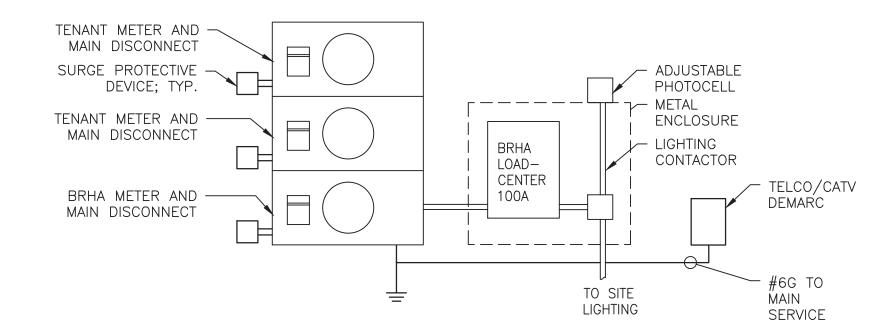
# OUTDOOR LIGHITNG SCHEDULE

- POST TOP LUMINAIRE, 67 WATT LED MODULE, 4000K, TYPE 4 FORWARD THROW DISTRIBUTION, POST TOP TENON MOUNT, BLACK FINISH, 12 FT. POLE, EQUAL TO KIM LIGHITNG - LED LANTERN ERA 19" LED SERIES.
- POST TOP LUMINAIRE, 530mA LED MODULE, 4000K, TYPE 4 FORWARD THROW DISTRIBUTION, BLACK FINISH, 25 FT. POLE, EQUAL TO LITHONIA - MR1 LED SERIES.
- POST TOP LUMINAIRE, 700mA LED MODULE, 4000K, TYPE 4 FORWARD THROW DISTRIBUTION, BLACK FINISH, 25 FT. POLE, EQUAL TO LITHONIA MR2 LED SERIES.

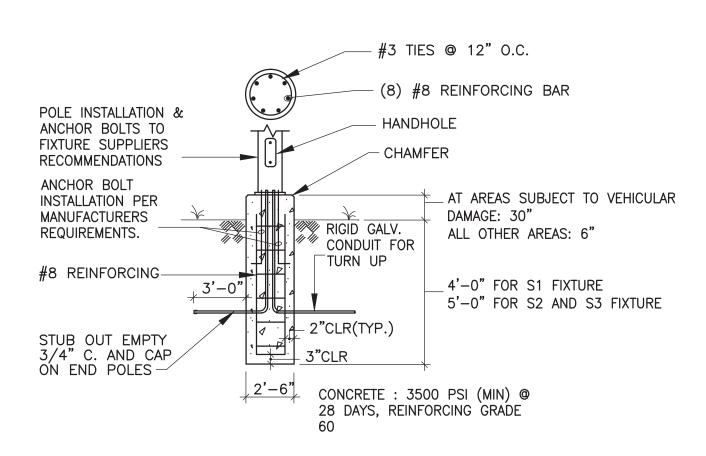
# LEGEND



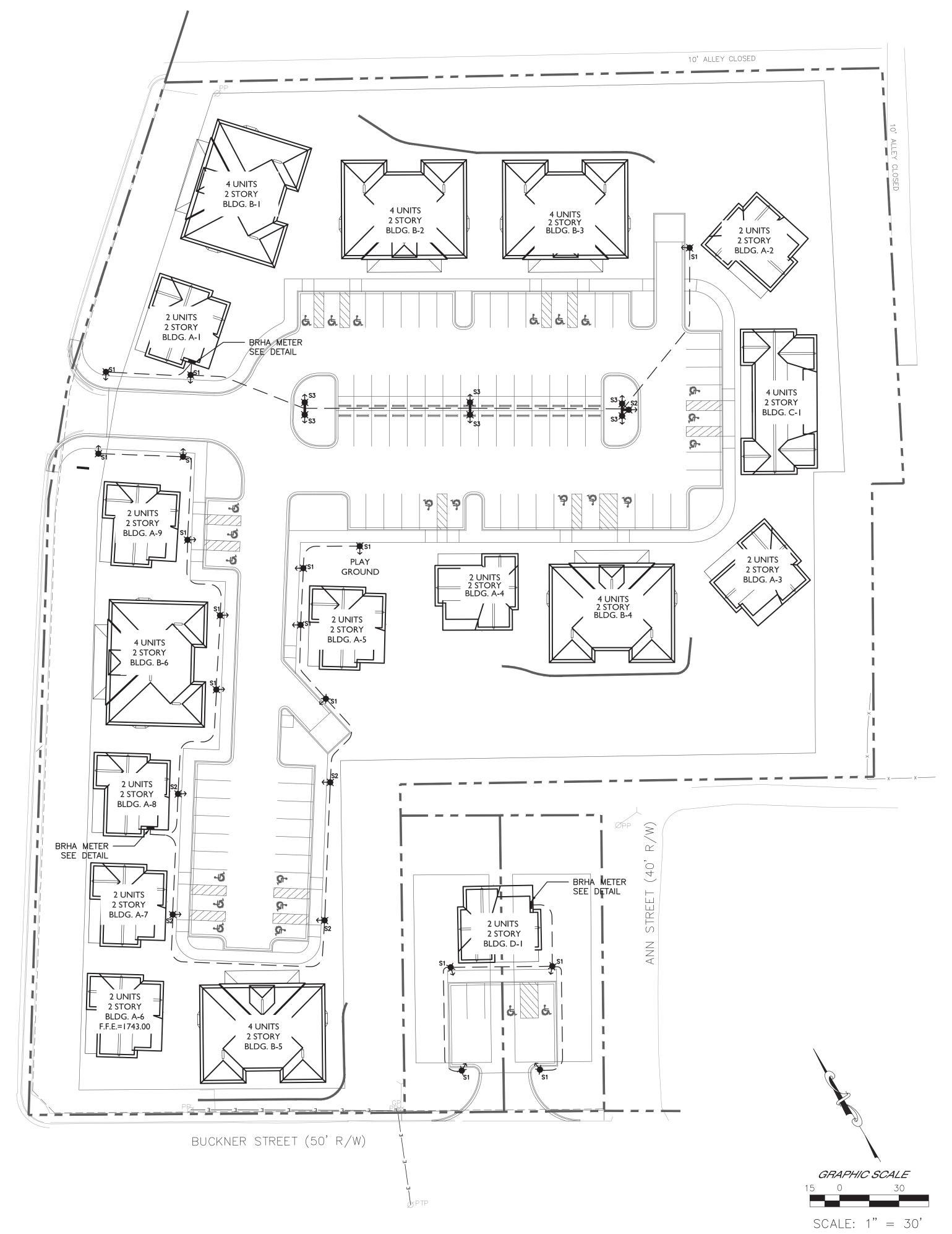
- SXX SITE LIGHT. ARROW INDICATES DIRECTION OF THROW WHERE SHOWN.
- TENANT AND BRHA METERS WITH SITE LIGHTING CONTROL

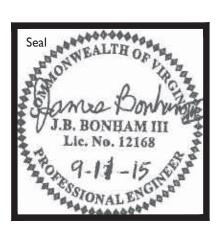


# TYP. TENANT AND BRHA METER INSTALLATION

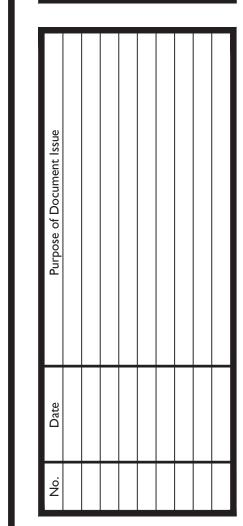


# LIGHTING FIXTURE FOUNDATION DETAIL





MF.09 ELEC



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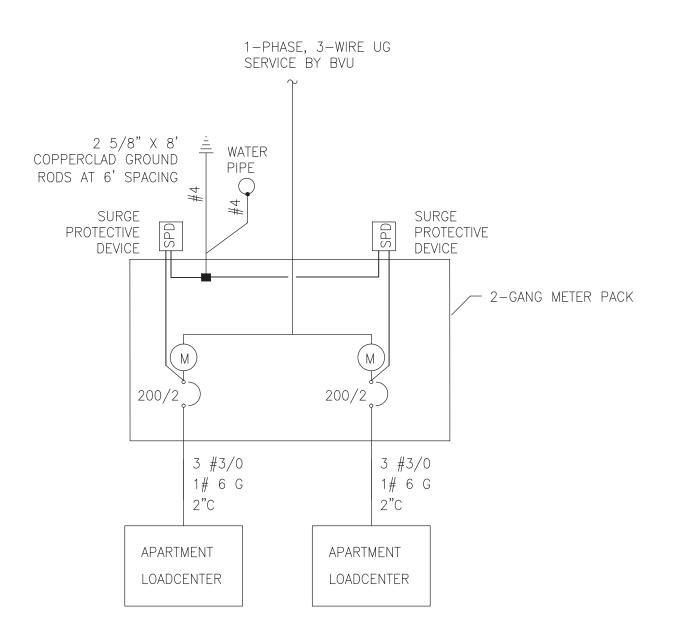




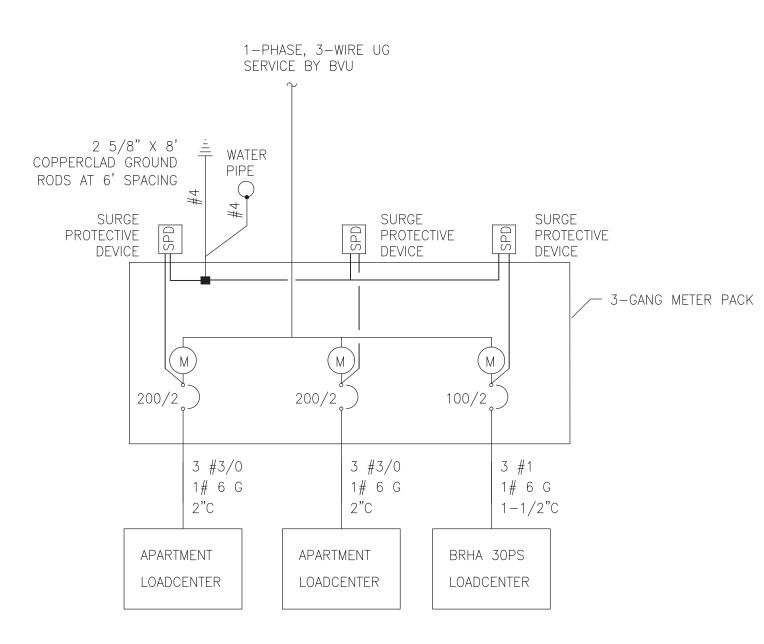
		RATING, 2 ON CIRCI													O POLE SPACE
LOAD	WATTS		CON	DUCT	ΓORS		CKT	CKT		CONDUCTORS			WATTS		LOAD
DESCRIPTION	В	А	Ø	N	G	C.B.	#	#	C.B.	Ø	N	G	А	В	DESCRIPTION
LIGHTS	416		14	14	14	15/1	1	2	50/2	6	_	10	2500		RANGE
DISHWASHER		1500	12	12	12	20/1	3	4						2500	
SMOKE DET./SPRINK.	100		12	12	12	20/1	5	6	30/2	10	10	10	2500		DRYER
REFRIGE.		750	12	12	12	20/1	7	8						2500	
CLOTHES WASH.	1200		12	12	12	20/1	9	10	20/2	12	12	12	1980		HP
RECEP BR1		900	12	12	12	20/1*	11	12						1980	
RECEP BR2	720		12	12	12	20/1*	13	14	15/2**	12	12	12	173		AHU
RECEP L.R.		1260	12	12	12	20/1*	15	16						173	
RECEP BATH	180		12	12	12	20/1	17	18	20/1**	12	12	12	240		KH
RECEP KIT		360	12	12	12	20/1	19	20	20/1	12	12	12		180	RECEP HP
RECEP KIT	360		12	12	12	20/1	21	22	30/2**	10	_	10	2250		WATER HEATER
RECEP LDRY.		180	12	12	12	20/1*	23	24						2250	
RECEP. – BATH2	180		12	12	12	20/1	25	26	25/2**	10	10	10	2840		AUX HEAT
							27	28						2840	
							29	30	20/1**	12	12	12	120		VS
LOCATION: LAUNE	DRY						ТОТА	L LO	AD: J	32,85	2 WATTS	137 A	MPS		

<sup>\*</sup> AFCI BREAKER

<sup>\*\*</sup> PROVIDE WITH BREAKER LOCKOUT ATTACHMENT



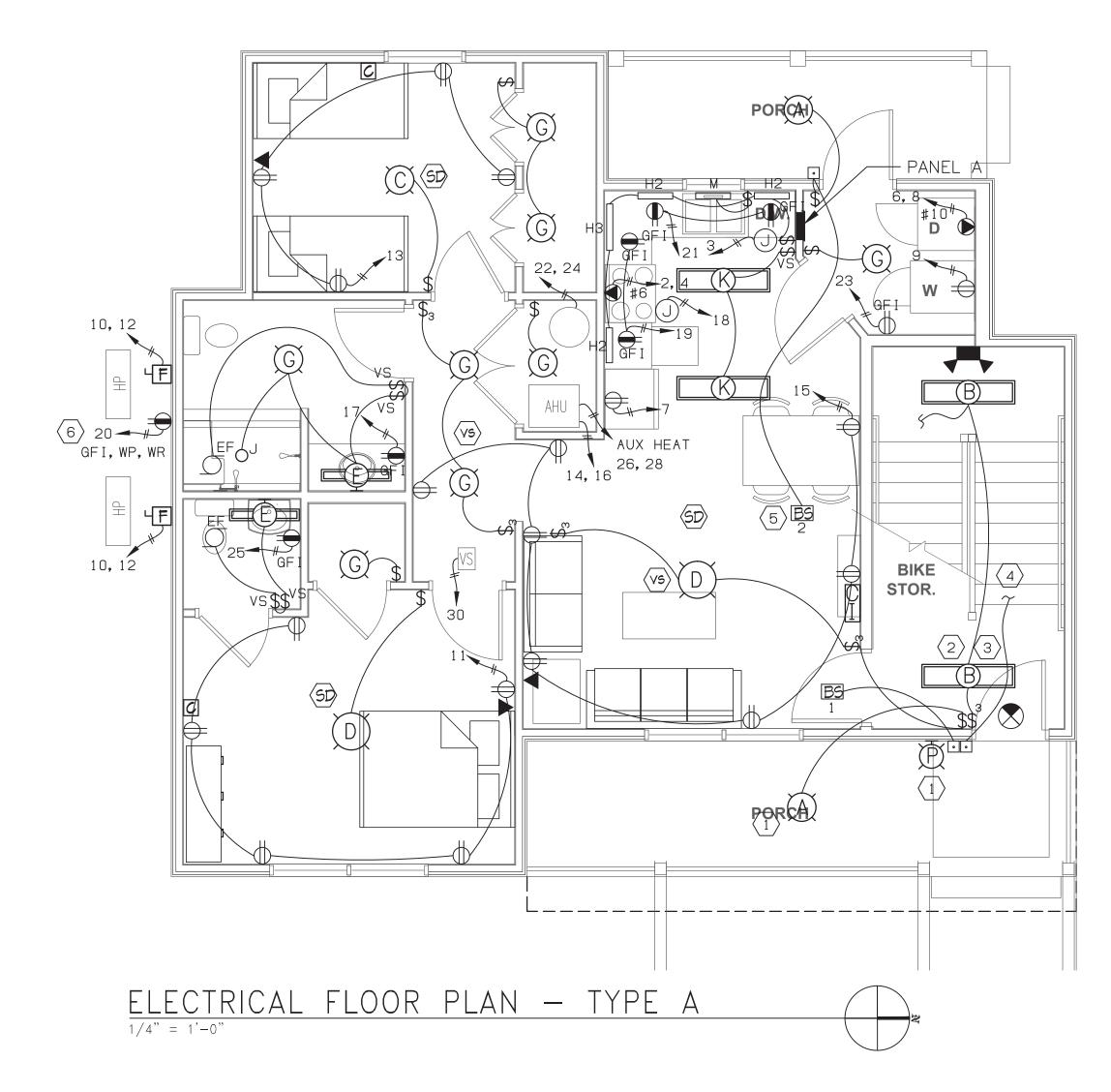
ELECTRICAL ONE-LINE DIAGRAM - TYPE A



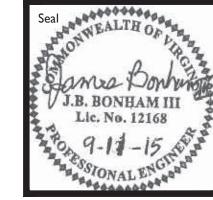
ELECTRICAL ONE-LINE DIAGRAM - TYPE A W/BRHA LOADCENTER

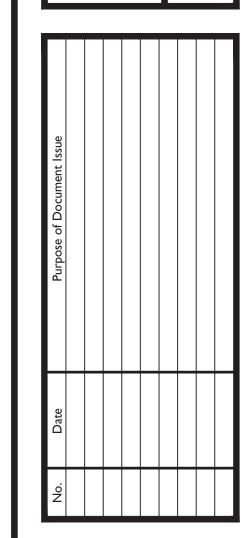
### KEYED NOTES

- 1. RAMP LIGHT AND WALL LIGHT IS PRESENT ON FIRST FLOOR ONLY AND POWERED BY THE TENANT
- LIGHTING CIRCUITS ON THE FIRST FLOOR. 2. INSTALL "B" FIXTURE ON SECOND FLOOR IN SAME GENERAL LOCATION AS THE FIXTURE SHOWN ON THE FIRST FLOOR. (3) STAIRWELL FIXTURES SHALL BE POWERED BY AN UPSTAIRS TENANT LIGHTING
- CIRCUIT AND CONTROLLED BY A 3-WAY SWITCH AT THE TOP AND BOTTOM OF STAIRS. 3. INSTALL AN EMERGENCY LIGHT ON SECOND FLOOR WALL WITH LAMPS FACING TOWARD STAIRS.
- 4. TO DOOR BELL ABOVE APARTMENT ENTRY DOOR ON SECOND FLOOR.
- 5. INSTALL HARD WIRED BELL/STROBE SYSTEM (DOOR STROBE SIGNALLERS) SIMILAR TO NUTONE (AS SHOWN) FOR ALL UD DESIGNATED UNITS. DOOR BELL/STROBE 1 AND DOOR BELL/STROBE 2 SHALL HAVE DIFFERENT SOUNDS. INSTALL DOOR BELL SYSTEM WITHOUT STROBE FOR ALL OTHERS.
- 6. OUTSIDE RECEPTACLE FOR HVAC SERVICE IS ONLY PRESENT ON GROUND FLOOR UNITS. ON ALL SECOND LEVEL UNITS, PROVIDE SPACE WITH PROVISIONS IN APARTMENT LOADCENTER AND LABEL ACCORDINGLY.



- 1. ALL LIGHTING CONNECTS TO CIRCUIT 1.
- 2. UD DESIGNATED UNIT SMOKE DETECTORS SHALL HAVE BOTH AUDIO AND VISUAL ALARM OUTPUTS. PROVIDE SLAVE BELL/STROBE ALARMS FOR ALL HABITABLE AREAS PER UD REQUIREMENTS. SMOKE DETECTORS AND SLAVE BELL/STROBES SHALL HAVE BATTERY
- 3. SMOKE DETECTORS FOR UD UNITS SHALL PROVIDE AN INTENSITY OF NOT LESS THAN 100CD PER VUSBC 3413.4.
- 4. ALL OUTLETS, SWITCHES, AND CONTROLS IN UD/HANDICAPPED UNITS SHALL MEET THE REACH RANGE SPECIFIED IN ANSI 117.1 (15" MIN. AND 48" MAX AFF).





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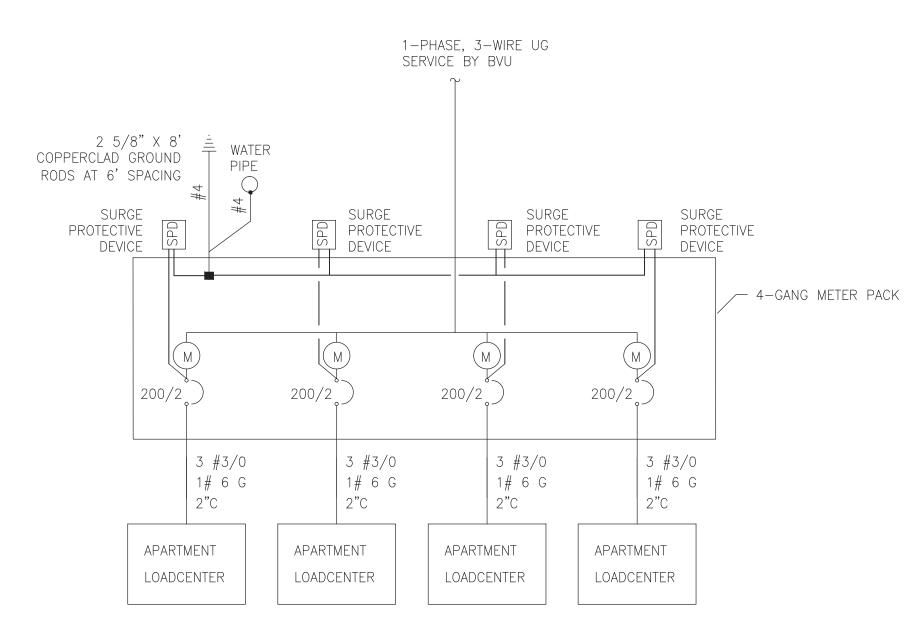




B								240V, 1P, 3W, 22,000A SHORT CIRCUIT RATING, 30 POLE SPACE E ENTRANCE PANEL, NEMA 1 FLUSH MOUNT								
LOAD	WA	TTS	CON	IDUC <sup>-</sup>	ΓORS		CKT	CKT	0.5	CON	DUC	TORS	WA <sup>-</sup>	ΓTS	LOAD	
DESCRIPTION	В	А	Ø	N	G	C.B.	#	#	C.B.	Ø	N	G	Α	В	DESCRIPTION	
LIGHTS	484		14	14	14	15/1	1	2	50/2	6	_	10	2500		RANGE	
DISHWASHER		1500	12	12	12	20/1	3	4						2500		
SMOKE DET./SPRINK.	100		12	12	12	20/1	5	6	30/2	10	10	10	2500		DRYER	
REFRIGE.		750	12	12	12	20/1	7	8						2500		
CLOTHES WASH.	1200		12	12	12	20/1	9	10	20/2	12	12	12	1980		HP	
RECEP BR1		720	12	12	12	20/1*	11	12						1980		
RECEP BR2	540		12	12	12	20/1*	13	14	15/2**	12	12	12	173		AHU	
RECEP BR3		360	12	12	12	20/1*	15	16						173		
RECEP L.R.	1080		12	12	12	20/1*	17	18	20/1**	12	12	12	240		KH	
RECEP. – BATH		180	12	12	12	20/1	19	20	20/1	12	12	12		180	RECEP HP	
RECEP HALL	360		12	12	12	20/1*	21	22	30/2**	10	_	10	2250		WATER HEATER	
RECEP. – BATH2		180	12	12	12	20/1	23	24						2250		
RECEP KIT	360		12	12	12	20/1	25	26	35/2**	8	8	8	3600		AUX HEAT	
RECEP KIT		180	12	12	12	20/1	27	28						3600		
RECEP LDRY	180		12	12	12	20/1*	29	30	20/1**	12	12	12	120		VS	
LOCATION: LAUNE	DRY						TOTAI	L LO	4D: 3	34,62	0 WATTS	145 A	MPS			

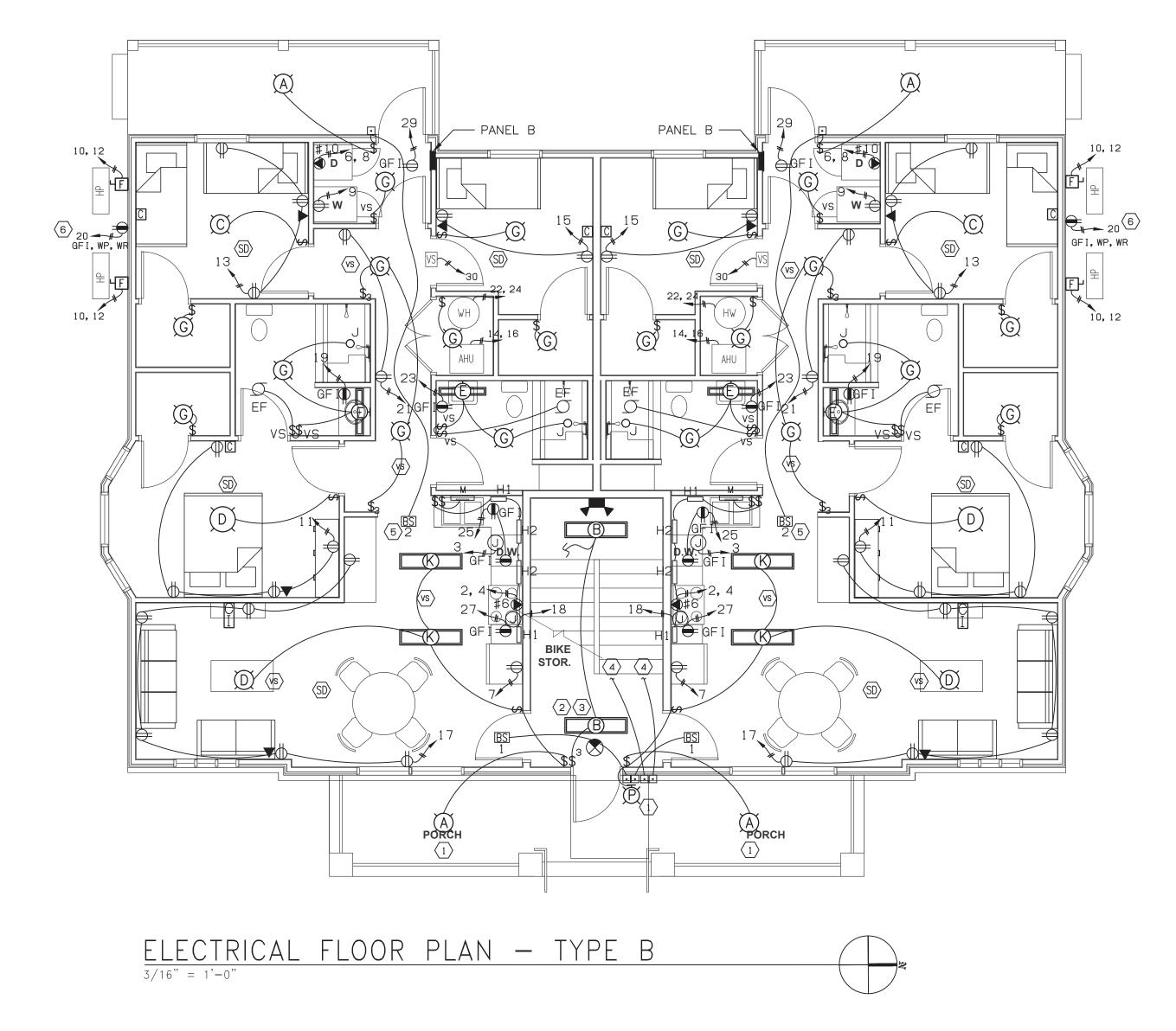
### \* AFCI BREAKER

<sup>\*\*</sup> PROVIDE WITH BREAKER LOCKOUT ATTACHMENT



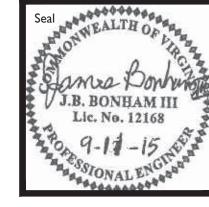
ELECTRICAL ONE-LINE DIAGRAM - TYPE B

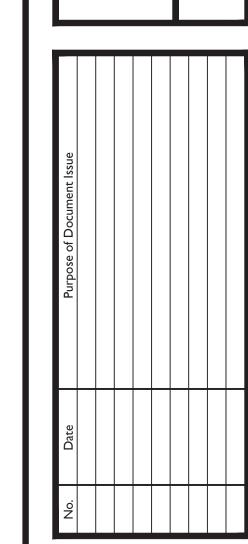
- 1. RAMP LIGHT AND WALL LIGHT IS PRESENT ON FIRST FLOOR ONLY AND POWERED BY THE TENANT
- LIGHTING CIRCUITS ON THE FIRST FLOOR.
- 2. INSTALL "B" FIXTURE ON SECOND FLOOR IN SAME GENERAL LOCATION AS THE FIXTURE SHOWN ON THE FIRST FLOOR. (3) STAIRWELL FIXTURES SHALL BE POWERED BY AN UPSTAIRS TENANT LIGHTING CIRCUIT AND CONTROLLED BY A 3-WAY SWITCH AT THE TOP AND BOTTOM OF STAIRS.
- 3. INSTALL AN EMERGENCY LIGHT ON SECOND FLOOR WALL WITH LAMPS FACING TOWARD STAIRS.
- 4. TO DOOR BELL ABOVE APARTMENT ENTRY DOOR ON SECOND FLOOR.
- 5. INSTALL HARD WIRED BELL/STROBE SYSTEM (DOOR STROBE SIGNALLERS) SIMILAR TO NUTONE (AS SHOWN) FOR ALL UD DESIGNATED UNITS. DOOR BELL/STROBE 1 AND DOOR BELL/STROBE 2 SHALL HAVE DIFFERENT SOUNDS. INSTALL DOOR BELL SYSTEM WITHOUT STROBE FOR ALL OTHERS.
- 6. OUTSIDE RECEPTACLE FOR HVAC SERVICE IS ONLY PRESENT ON GROUND FLOOR UNITS. ON ALL SECOND LEVEL UNITS, PROVIDE SPACE WITH PROVISIONS IN APARTMENT LOADCENTER AND LABEL ACCORDINGLY.



### GENERAL NOTES

- 1. ALL LIGHTING CONNECTS TO CIRCUIT 1.
- 2. UD DESIGNATED UNIT SMOKE DETECTORS SHALL HAVE BOTH AUDIO AND VISUAL ALARM OUTPUTS. PROVIDE SLAVE BELL/STROBE ALARMS FOR ALL HABITABLE AREAS PER UD REQUIREMENTS. SMOKE DETECTORS AND SLAVE BELL/STROBES SHALL HAVE BATTERY BACKUP POWER.
- 3. SMOKE DETECTORS FOR UD UNITS SHALL PROVIDE AN INTENSITY OF NOT LESS THAN 100CD PER VUSBC 3413.4.
- 4. ALL OUTLETS, SWITCHES, AND CONTROLS IN UD/HANDICAPPED UNITS SHALL MEET THE REACH RANGE SPECIFIED IN ANSI 117.1 (15" MIN. AND 48" MAX AFF).





Designed	LDM
Drawn	RR
Checked	LDM
Date	SEP. 11, 2015
File No.	

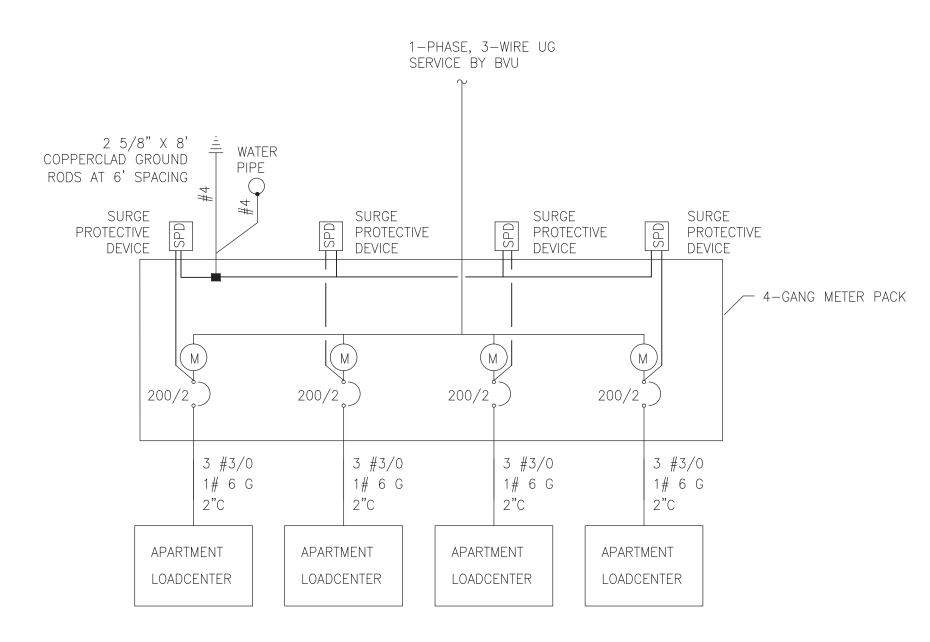




													CIRCUIT F JSH MOU		0 POLE SPACE
LOAD	WA	TTS	CON	DUCT	TORS		CKT	CKT	0.0	CON	DUC	ΓORS	WA	ΓTS	LOAD
DESCRIPTION	В	А	Ø	N	G	C.B.	#	#	C.B.	Ø	N	G	А	В	DESCRIPTION
LIGHTS	416		14	14	14	15/1	1	2	50/2	6	_	10	2500		RANGE
DISHWASHER		1500	12	12	12	20/1	3	4						2500	
SMOKE DET./SPRINK.	100		12	12	12	20/1	5	6	30/2	10	10	10	2500		DRYER
REFRIGE.		750	12	12	12	20/1	7	8						2500	
CLOTHES WASH.	1200		12	12	12	20/1	9	10	20/2	12	12	12	1980		HP
RECEP BR1		900	12	12	12	20/1*	11	12						1980	
RECEP BR2	540		12	12	12	20/1*	13	14	15/2**	12	12	12	173		AHU
RECEP. – L.R.		1260	12	12	12	20/1*	15	16						173	
RECEP. – BATH	180		12	12	12	20/1	17	18	20/1**	12	12	12	240		KH
RECEP. – BATH2		180	12	12	12	20/1	19	20	20/1	12	12	12		180	RECEP HP
RECEP KIT	360		12	12	12	20/1	21	22	30/2**	10	_	10	2250		WATER HEATER
RECEP KIT		360	12	12	12	20/1	23	24						2250	
RECEP LDRY	180		12	12	12	20/1*	25	26	25/2**	10	10	10	2840		AUX HEAT
							27	28						2840	
							29	30	20/1**	12	12	12	120		VS
LOCATION: LAUNE	DRY								TOTAL	LO	4D: 3	32,85	2 WATTS	137 A	MPS

<sup>\*</sup> AFCI BREAKER

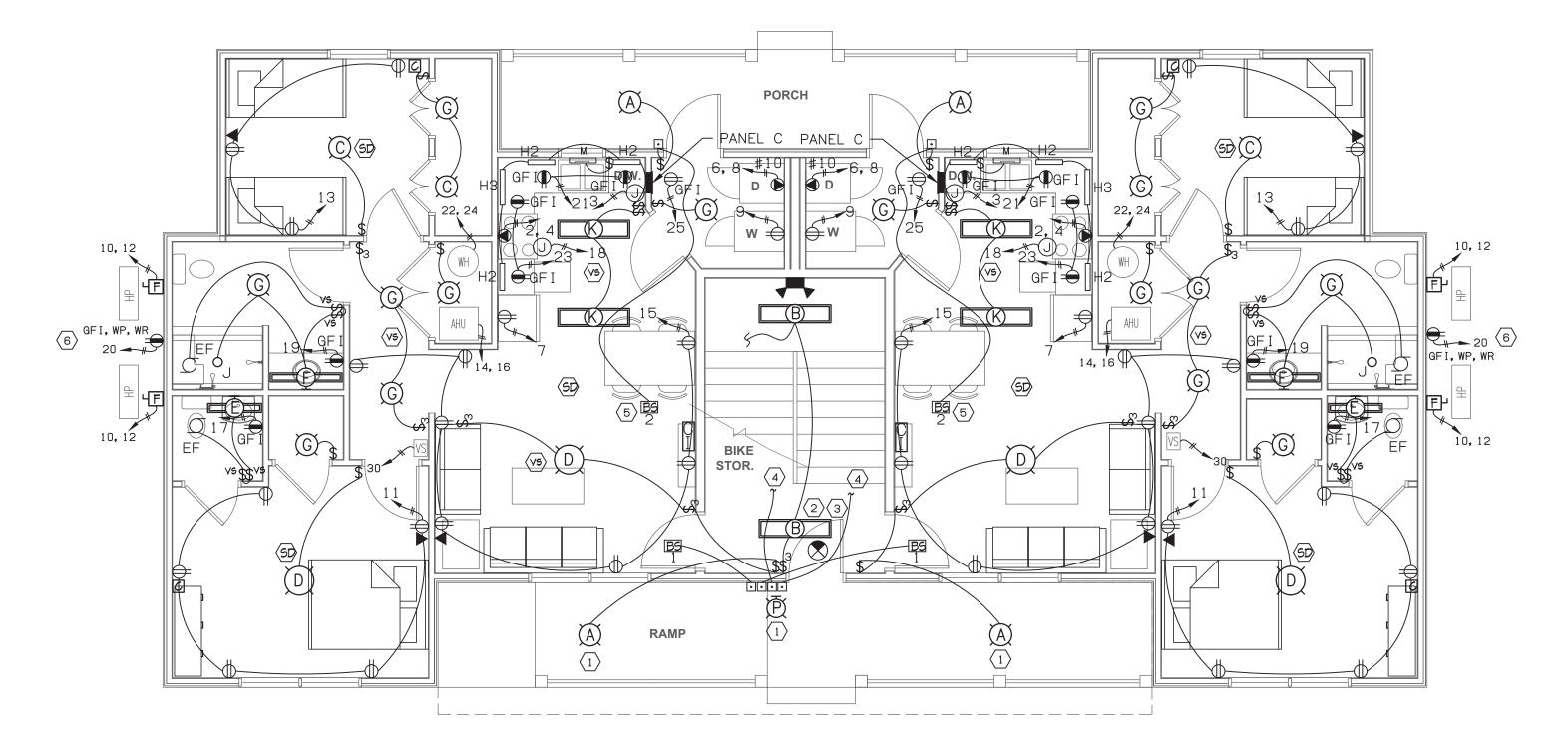
<sup>\*\*</sup> PROVIDE WITH BREAKER LOCKOUT ATTACHMENT



ELECTRICAL ONE-LINE DIAGRAM - TYPE C

### KEYED NOTES

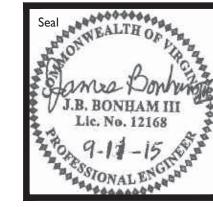
- 1. RAMP LIGHT AND WALL LIGHT ON FIRST FLOOR ONLY.
- 2. INSTALL "B" FIXTURE ON SECOND FLOOR IN SAME GENERAL LOCATION AS THE FIXTURE SHOWN ON THE FIRST FLOOR. (3) STAIRWELL FIXTURES SHALL BE POWERED BY AN UPSTAIRS TENANT LIGHTING CIRCUIT AND CONTROLLED BY A 3-WAY SWITCH AT THE TOP AND BOTTOM OF STAIRS.
- 3. INSTALL AN EMERGENCY LIGHT ON SECOND FLOOR WALL WITH LAMPS FACING TOWARD STAIRS.
- 4. TO DOOR BELL ABOVE APARTMENT ENTRY DOOR ON SECOND FLOOR.
- 5. INSTALL HARD WIRED BELL/STROBE SYSTEM (DOOR STROBE SIGNALLERS) SIMILAR TO NUTONE SHOWN FOR ALL UD DESIGNATED UNITS. DOOR BELL/STROBE 1 AND DOOR BELL/STROBE 2 SHALL HAVE DIFFERENT SOUNDS. INSTALL DOOR BELL SYSTEM WITHOUT STROBE FOR ALL OTHERS.
- 6. OUTSIDE RECEPTACLE FOR HVAC SERVICE IS ONLY PRESENT ON GROUND FLOOR UNITS. ON ALL SECOND LEVEL UNITS, PROVIDE SPACE WITH PROVISIONS IN APARTMENT LOADCENTER AND LABEL ACCORDINGLY.





### GENERAL NOTES

- 1. ALL LIGHTING CONNECTS TO CIRCUIT 1.
- 2. UD DESIGNATED UNIT SMOKE DETECTORS SHALL HAVE BOTH AUDIO AND VISUAL ALARM OUTPUTS. PROVIDE SLAVE BELL/STROBE ALARMS FOR ALL HABITABLE AREAS PER UD REQUIREMENTS. SMOKE DETECTORS AND SLAVE BELL/STROBES SHALL HAVE BATTERY BACKUP POWER.
- 3. SMOKE DETECTORS FOR UD UNITS SHALL PROVIDE AN INTENSITY OF NOT LESS THAN 100CD PER VUSBC 3413.4.
- 4. ALL OUTLETS, SWITCHES, AND CONTROLS IN UD/HANDICAPPED UNITS SHALL MEET THE REACH RANGE SPECIFIED IN ANSI 117.1 (15" MIN. AND 48" MAX AFF).



1F.0915 N - BLDG. C

THE VILLAGE AT OAKVIEW
BRISTOL, VIRGINIA
BRHA - TVO-1460.00.MF.0915

No. Date Purpose of Document Issue

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	Designed	LDM
	Drawn	RR
	Checked	LDM
	Date	SEP. 11, 2015
	File No.	
-		

Project No. 12655-05

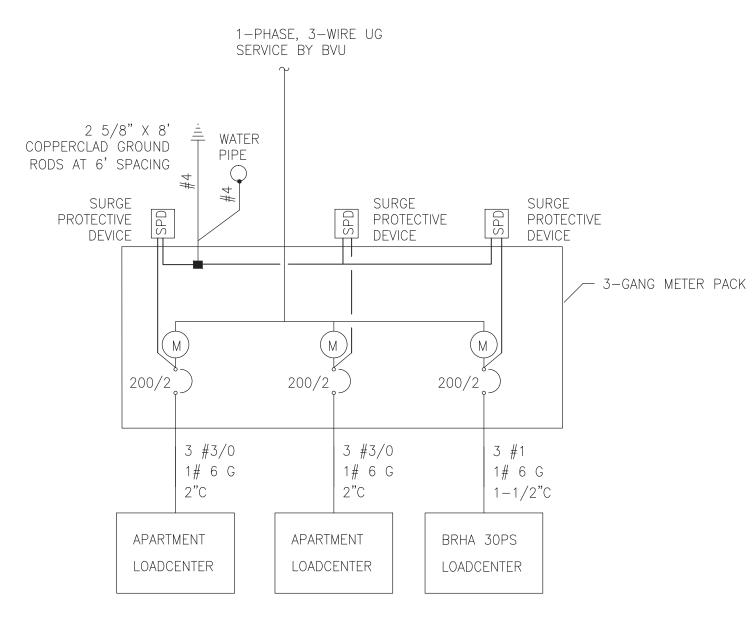




	200A RATING, 200A MAIN C.B., 120/240V, 1P, 3W, 22,000A SHORT CIRCUIT RATING, 30 POLE SPACE BOLT—ON CIRCUIT BREAKERS, SERVICE ENTRANCE PANEL, NEMA 1 FLUSH MOUNT														
LOAD DESCRIPTION	WA	CONDUCTORS			CKT	CKT	0.0	CONDUCTORS		WATTS		LOAD			
	В	А	Ø	N	G	C.B.	#	#	C.B.	Ø	N	G	Α	В	DESCRIPTION
LIGHTS	416		14	14	14	15/1	1	2	50/2	6	_	10	2500		RANGE
DISHWASHER		1500	12	12	12	20/1	3	4						2500	
SMOKE DET./SPRINK.	100		12	12	12	20/1	5	6	30/2	10	10	10	2500		DRYER
REFRIGE.		750	12	12	12	20/1	7	8						2500	
CLOTHES WASH.	1200		12	12	12	20/1	9	10	20/2	12	12	12	1980		HP
RECEP BR1		720	12	12	12	20/1*	11	12						1980	
RECEP BR2	720		12	12	12	20/1*	13	14	20/2**	12	12	12	173		AHU
RECEP. – BATH		180	12	12	12	20/1*	15	16						173	
RECEP. – L.R.	1260		12	12	12	20/1*	17	18	20/1**	12	12	12	240		KH
RECEP KIT		360	12	12	12	20/1	19	20	20/1	12	12	12		180	RECEP HP
RECEP KIT	360		12	12	12	20/1	21	22	30/2**	10	_	10	2250		WATER HEATER
RECEP LDRY		180	12	12	12	20/1*	23	24						2250	
RECEP. — BATH2	180		12	12	12	20/1	25	26	25/2**	10	10	10	2840		AUX HEAT
							27	28						2840	
							29	30	20/1**	12	12	12	120		VS
LOCATION: LAUNDRY									TOTAL LOAD: 32,672 WATTS 137 AMPS						

### \* AFCI BREAKER

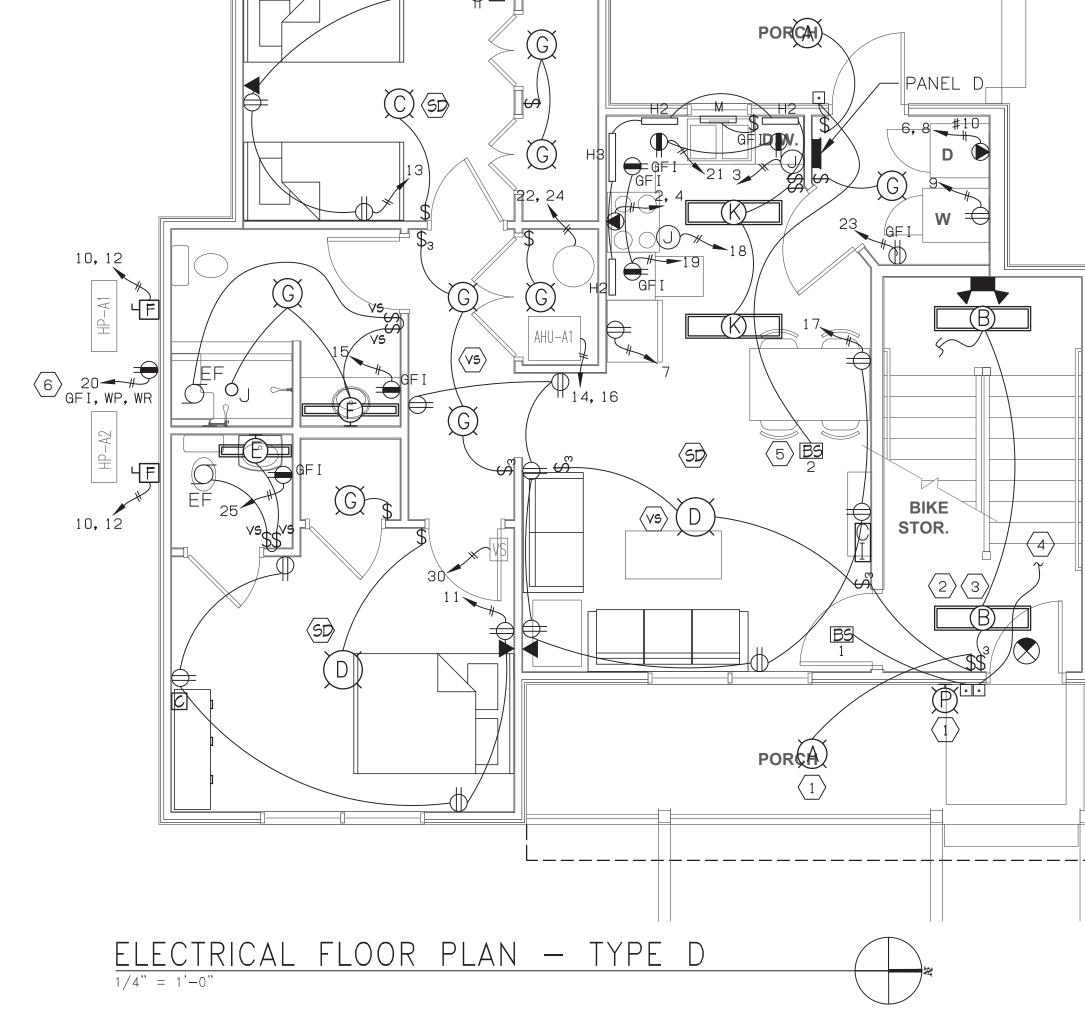
\*\* PROVIDE WITH BREAKER LOCKOUT ATTACHMENT



ELECTRICAL ONE-LINE DIAGRAM - TYPE D
W/BRHA LOADCENTER

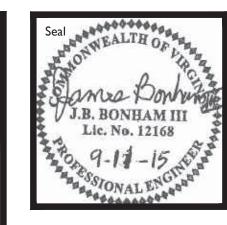
### KEYED NOTES

- 1. RAMP LIGHT AND WALL LIGHT IS PRESENT ON FIRST FLOOR ONLY AND POWERED BY THE TENANT LIGHTING CIRCUITS ON THE FIRST FLOOR.
- 2. INSTALL "B" FIXTURE ON SECOND FLOOR IN SAME GENERAL LOCATION AS THE FIXTURE SHOWN ON THE FIRST FLOOR. (3) STAIRWELL FIXTURES SHALL BE POWERED BY AN UPSTAIRS TENANT LIGHTING CIRCUIT AND CONTROLLED BY A 3-WAY SWITCH AT THE TOP AND BOTTOM OF STAIRS.
- 3. INSTALL AN EMERGENCY LIGHT ON SECOND FLOOR WALL WITH LAMPS FACING TOWARD STAIRS.
- 4. TO DOOR BELL ABOVE APARTMENT ENTRY DOOR ON SECOND FLOOR.
- 5. DOOR BELL/STROBE 1 AND DOOR BELL/STROBE 2 SHALL HAVE DIFFERENT SOUNDS. INSTALL HARD WIRED BELL/STROBE SYSTEM (DOOR STROBE SIGNALLERS) SHOWN FOR ALL UD DESIGNATED UNITS. INSTALL DOOR BELL SYSTEM WITHOUT STROBE FOR ALL OTHERS, SIMILAR TO NUTONE.
- 6. OUTSIDE RECEPTACLE FOR HVAC SERVICE IS ONLY PRESENT ON GROUND FLOOR UNITS. ON ALL SECOND LEVEL UNITS, PROVIDE SPACE WITH PROVISIONS IN APARTMENT LOADCENTER AND LABEL ACCORDINGLY.



### GENERAL NOTES

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W 0915 - BLDG. D

THE VILLAGE AT OAKVIEW
BRISTOL, VIRGINIA
RHA - TVO-1460.00.MF.0915
AL FLOOR PLAN - BI

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D	raw	'n		RR								
С	hec	ked		LDM								
	ato		П	SEP 11 2015								

Project No. 12655-05



