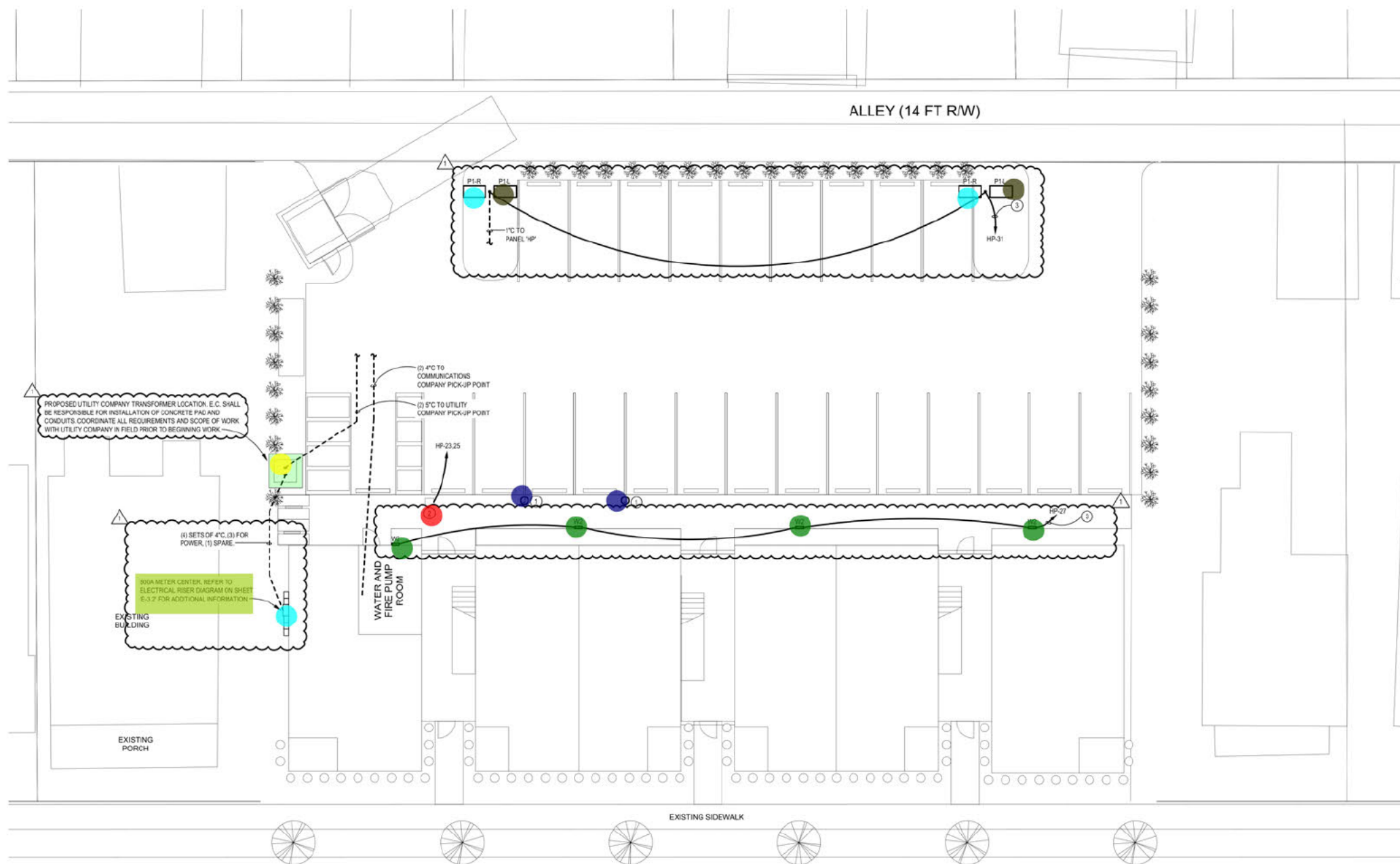
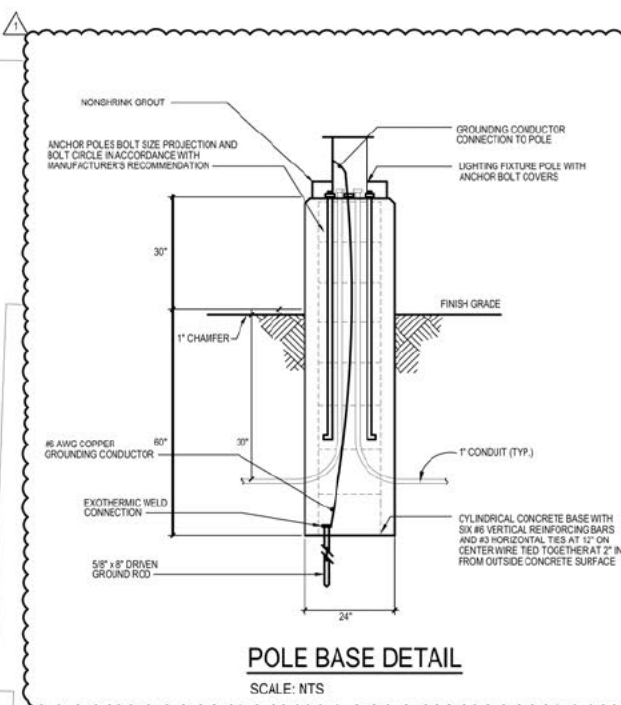




- ELECTRICAL CODED NOTES:**
1. E.C. SHALL PROVIDE A JUNCTION BOX WITH A 1/4\"/>



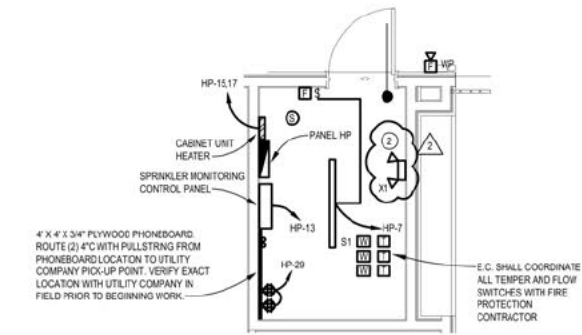
- | | | |
|----------------|------------|--|
| • W2: | 4.0 EA | |
| • JUNCTION BOX | 2.0 EA | |
| • 800 A METER | 1.0 EA | |
| • P1-R | 2.0 EA | |
| • P1-L | 2.0 EA | |
| • EV CHARGER | 1.0 EA | |
| • CONCRETE PAD | 36.0 SQ FT | |
| • TRANSFORMER | 1.0 EA | |

ELECTRICAL SITE PLAN

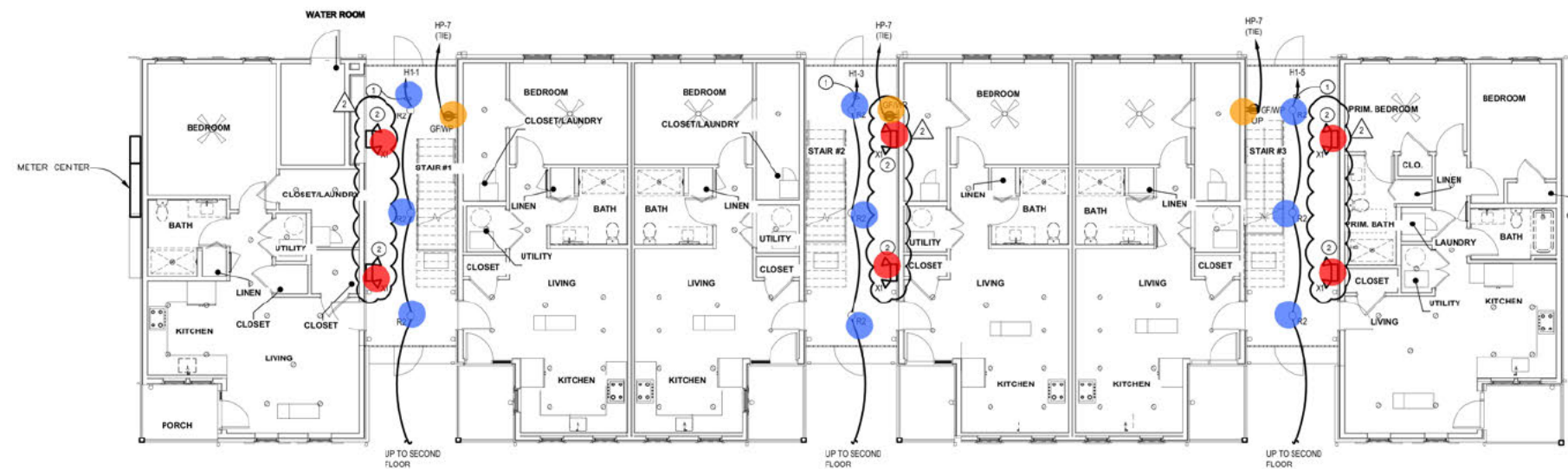
SCALE: 3/32" = 1'-0"



WATER ROOM

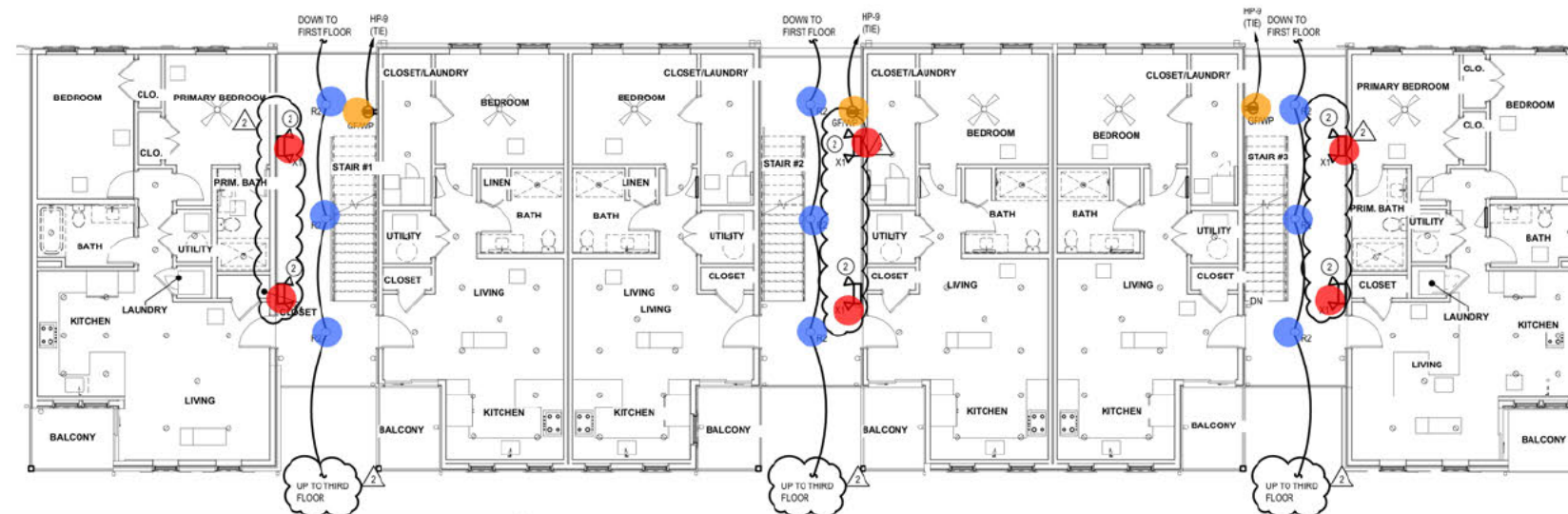


ENLARGED WATER ROOM ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



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

- ELECTRICAL CODED NOTES:**
- 1 E.C. SHALL WIRE THROUGH PHOTOCELL.
 - 2 E.C. SHALL WIRE EMERGENCY LIGHTING AHEAD OF ANY SWITCHING OR AUTOMATIC CONTROLS.

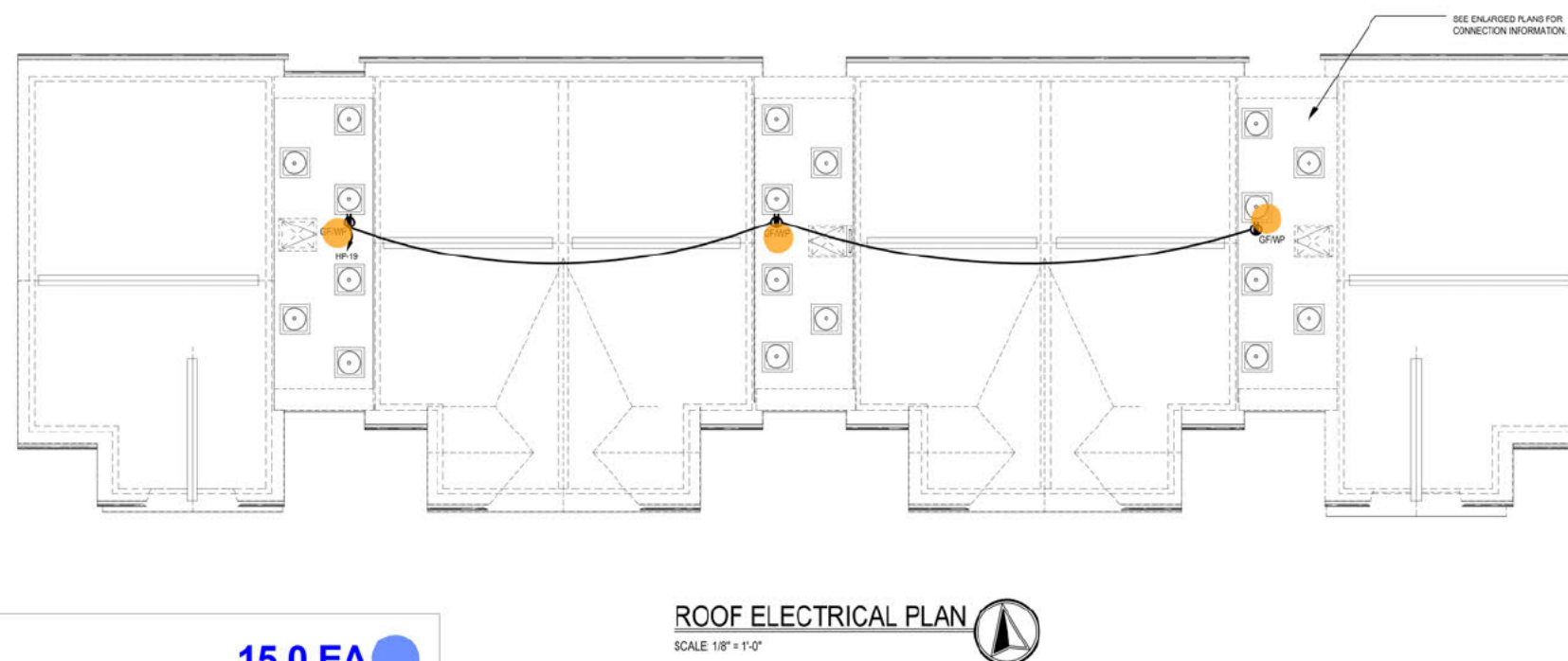
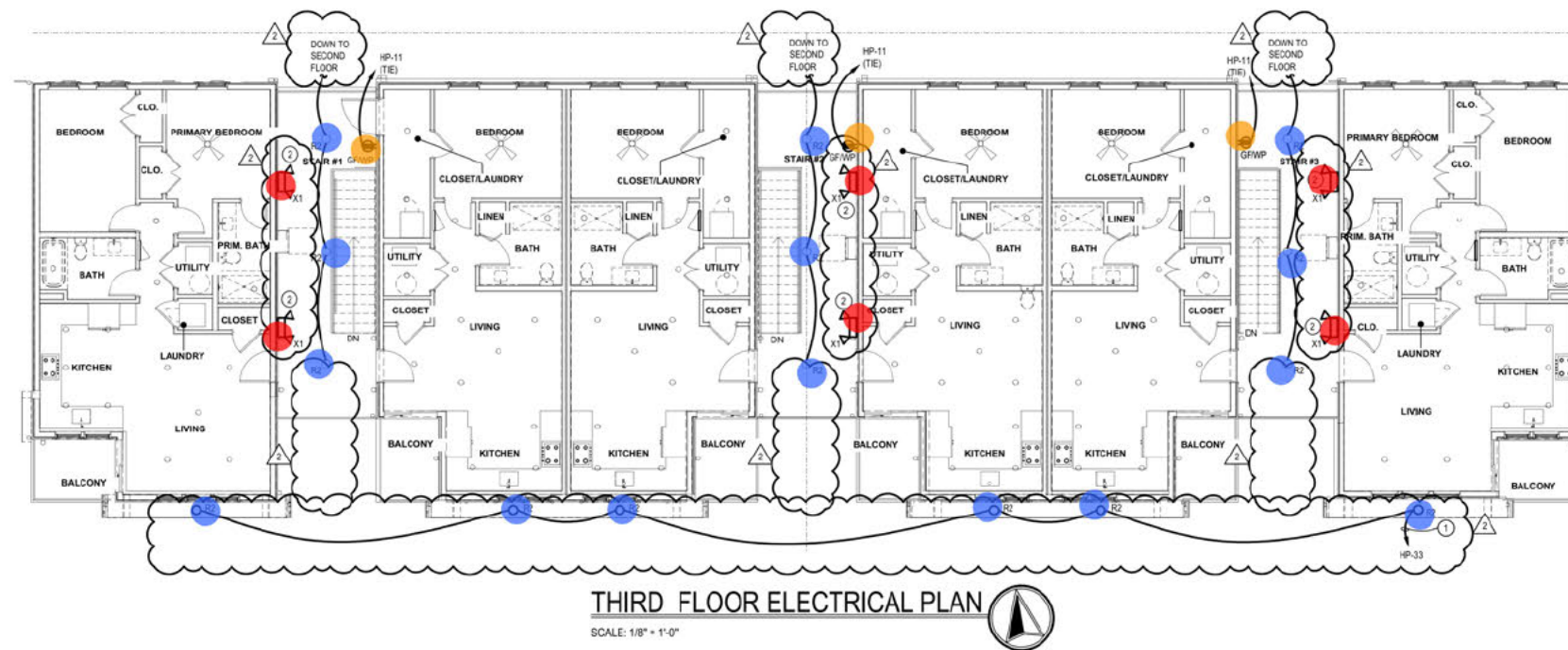


SECOND FLOOR ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

- X1:
- R2:
- DUPLEX RECEPTACLE GFCI/WP

12.0 EA ●
18.0 EA ●
6.0 EA ●

- ELECTRICAL CODED NOTES:
- ① E.C. SHALL WIRE THROUGH PHOTOCELL.
 - ② E.C. SHALL WIRE EMERGENCY LIGHTING AHEAD OF ANY SWITCHING OR AUTOMATIC CONTROLS.



•

R2:

•

X1:

•

DUPLEX RECEPTACLE GFCI/WP

15.0 EA

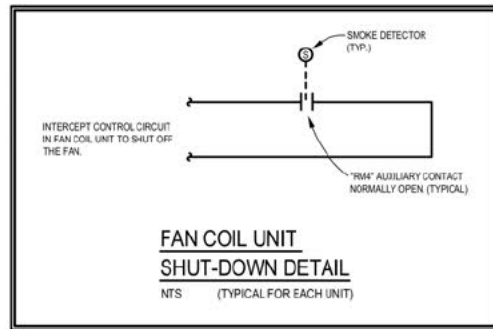
6.0 EA

6.0 EA

NOTE:
E.C. SHALL FURNISH AND INSTALL A
SURGE-PROTECTIVE DEVICE FOR EACH UNIT PANEL
TO SATISFY THE REQUIREMENTS OF NEC 215.18(A).

USE FIRE RATED OUTLET BOX IN FIRE RATED WALLS OR STANDARD STEEL
OUTLET BOXES NOT GREATER THAN 10" IN AREA AND SEPARATE 8" 24"
HORIZONTALLY IF LOCATED OPPOSITE ANOTHER DEVICE IN THIS WALL.

NOTE:
NEC 406.12(1) TAMPER-RESISTANT RECEPTACLES IN ALL AREAS OF DWELLING SPECIFIED IN
210.52. ALL NON-LOCKING-TYPE 125 VOLT, 15 AND 20 AMP RECEPTACLES SHALL BE
TAMPER-RESISTANT.
NEC 406.12. RECEPTACLES IN THE FOLLOWING LOCATIONS SHALL NOT BE TAMPER-RESISTANT
TYPE:
1) RECEPTACLES LOCATED MORE THAN 5-10 FEET ABOVE THE FLOOR.
2) RECEPTACLES THAT ARE PART OF A LUMINAIRE OR APPLIANCE.
3) A SINGLE RECEPTACLE OR DUPLEX RECEPTACLE FOR TWO APPLIANCES LOCATED WITHIN
DEDICATED SPACE FOR EACH APPLIANCE THAT, IN NORMAL USE, IS NOT EASILY MOVED
FROM ONE PLACE TO ANOTHER AND THAT IS CORE-AND-PLUG CONNECTED.

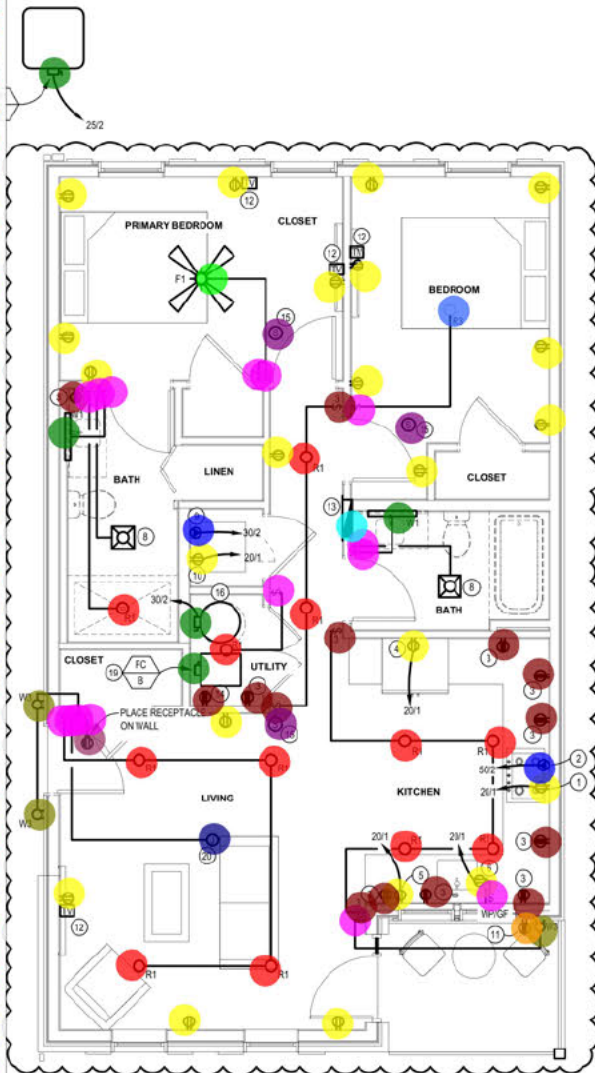


ELECTRICAL CODED NOTES:

- 1) MICROWAVE, 120V, ON COUNTER OR IN MILLWORK. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
- 2) ELECTRIC RANGE, 208V, 1PH. RUN 2 #6 COPPER AND #10 GRD. (OR 2 #4 ALUMINUM AND #10 GRD.) FROM A 50A-2P RANGE OUTLET.
- 3) DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT PROTECTION PER NATIONAL ELECTRIC CODE. MOUNT @ 44" A.F.F. OR AT HEIGHT AS NOTED.
- 4) REFRIGERATOR, 120 VOLT, @ 60" A.F.F. RUN 2 #12 & #12 GRD FROM DUPLEX RECEPTACLE TO A 20A-1P GROUND FAULT CIRCUIT BREAKER.
- 5) DISHWASHER, 120V, 1PH. PROVIDE DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT PROTECTION PER NATIONAL ELECTRIC CODE.
- 6) DISPOSAL, 120V, 1PH. PROVIDE GFCI RECEPTACLE BELOW SINK CONTROLLED BY SWITCH. VERIFY EXACT LOCATION OF SWITCH. INSTALL PER NEC 422.16(B).
- 7) HEAT PUMP CONDENSING UNIT (HP-B, LOCATED ON ROOF), 208V 1Ø. RUN 2 #10 & #10 GRD FROM A 30A-2P WP DISCONNECT SWITCH AT UNIT (BY E.C.) TO A 25A-2P BREAKER IN APARTMENT PANEL. MAKE ALL FINAL CONNECTIONS.
- 8) EXHAUST FAN CEILING MOUNTED, 18W 120V, CONTROLLED BY LIGHT SWITCH.
- 9) DRYER, 5.0 KW, 208 VOLT, 1 PHASE. RUN 2#10 & 1#10 GRD TO A 30A-2P BREAKER, FURNISH AND INSTALL IEMA 10-30R RECEPTACLE. VERIFY MOUNTING HEIGHT.
- 10) WASHER, 120 VOLT, 1 PHASE. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A G.F.C.I. DUPLEX OUTLET ON A SEPARATE 20A-1P CIRCUIT.
- 11) EXTERIOR GFCI RECEPTACLE WITH WEATHERPROOF WHILE-IN-USE CLEAR COVER. MOUNT @ 24" ABOVE FINISHED GROUND OR AS NOTED.
- 12) THE ELECTRICAL CONTRACTOR SHALL PROVIDE A SEPARATE LINE ITEM PRICE (ALTERNATE #7) TO FURNISH AND INSTALL ALL NECESSARY CABLE TV SERVICE ENTRANCE CONDUITS INTO BUILDING AND THROUGH FIRE PARTITION WALLS AFTER CABLE INSTALLATION. CABLE SYSTEM SHALL BE PREWIRED BY THE CABLE TV COMPANY OR THE ELECTRICAL CONTRACTOR. (SYSTEM INSTALLATION IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR REGARDLESS OF WHO INSTALLS THE SYSTEM). FULLY COORDINATE THE INSTALLATION WITH THE CABLE TV COMPANY. AS PART OF THE BASE BID, PROVIDE A 1/2" EMT CONDUIT W/PULL STRING FROM TV BOX UP IN WALL TO OTHER FLOORS. E.C. TO VERIFY EXACT MOUNTING HEIGHT OF TV & ASSOCIATED RECEPTACLE.

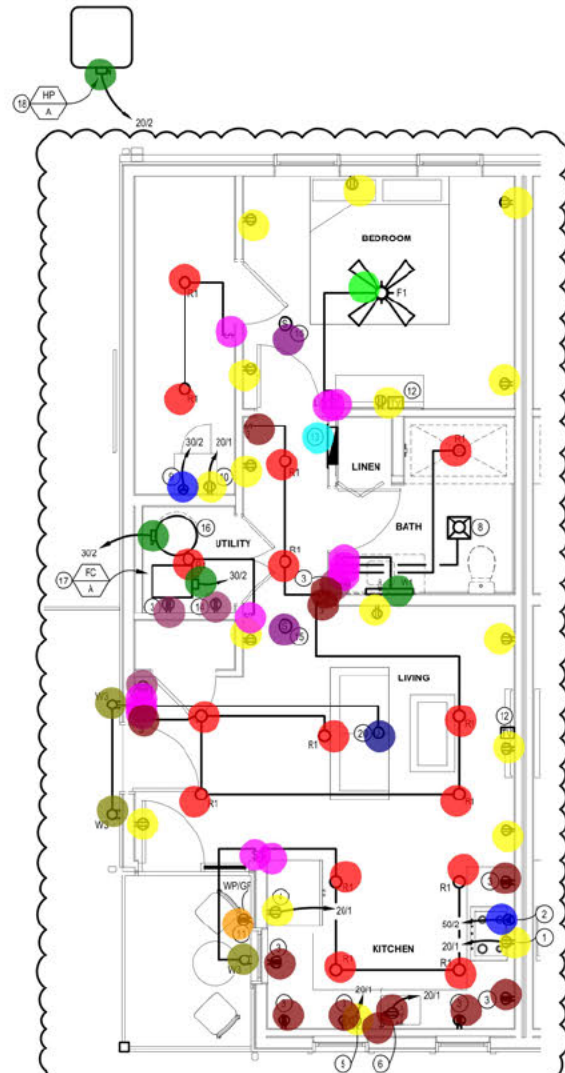
- 13) UNIT PANELBOARD, RECESSED. PROVIDE CIRCUIT DIRECTORY. VERIFY EXACT LOCATION. PROVIDE ALL REQUIRED CLEARANCES. SEE ELECTRICAL RISER FOR ADDITIONAL INFORMATION.
- 14) DEMARK LOCATION FOR STRUCTURED MEDIA CENTER ENCLOSURE. LOW VOLTAGE HOMERUN FROM PICK UP POINT TO BE RAN UNDER SLAB IN SLEEVES TO UNIT. PROVIDE GFCI RECEPTACLE @ 7'-0" VERIFY EXACT LOCATION AND MOUNTING HEIGHT IN FIELD. PROVIDE CAT6 CABLE TO TELEPHONE OUTLET AND COAX TO TV OUTLETS FROM THIS LOCATION. COORDINATE ALL WORK W/ LOW VOLTAGE CONTRACTOR.
- 15) CEILING MOUNTED SINGLE/MULTIPLE STATION SMOKE DETECTOR, DUAL SENSING TECHNOLOGY (PHOTOELECTRIC AND IONIZATION) KIDDE MODEL P12010, 120 VOLT WITH BATTERY BACK-UP. FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. DIRECT WIRE DETECTORS TO THE LIGHTING CIRCUIT IN THE ROOM WHERE IT IS LOCATED. INTERWIRE DETECTORS SO THAT ACTIVATION OF ONE DEVICE WILL ACTUATE ALL OTHER ALARMS WITHIN THE INDIVIDUAL UNIT. WIRING SYSTEMS AND POWER SOURCES SHALL COMPLY WITH STATE AND LOCAL CODE AND FOLLOW MANUFACTURER'S RECOMMENDATIONS. INSTALL A MINIMUM OF 10' FROM ANY COOKING APPLIANCE.
- 16) ELECTRIC WATER HEATER (2) 4500W (NON-SIMULTANEOUS) ELEMENTS, 208V, 1Ø. RUN 2 #10 AND #10 GRD FROM A 30A-2P DISCONNECT TO A 30A-2P BREAKER. MAKE ALL FINAL CONNECTIONS.
- 17) FAN COIL INDOOR UNIT WITH AUXILIARY HEAT (FC-A), 5.0 KW, 208V, 1Ø. RUN 2 #10 AND #10 GRD. FROM AN INTEGRAL DISCONNECT SWITCH AT UNIT TO A 30A-2P BREAKER. MAKE ALL FINAL CONNECTIONS. PROVIDE SHUTDOWN WIRING PER FAN COIL UNIT SHUT DOWN DETAIL ON THIS SHEET.
- 18) HEAT PUMP CONDENSING UNIT (HP-A, LOCATED ON ROOF), 208V 1Ø. RUN 2 #12 & #12 GRD FROM A 30A-2P WP DISCONNECT SWITCH AT UNIT (BY E.C.) TO A 20A-2P BREAKER IN APARTMENT PANEL. MAKE ALL FINAL CONNECTIONS.
- 19) FAN COIL INDOOR UNIT WITH AUXILIARY HEAT (FC-B), 5.0 KW, 208V, 1Ø. RUN 2 #10 AND #10 GRD. FROM AN INTEGRAL DISCONNECT SWITCH AT UNIT TO A 30A-2P BREAKER. MAKE ALL FINAL CONNECTIONS. PROVIDE SHUTDOWN WIRING PER FAN COIL UNIT SHUT DOWN DETAIL ON THIS SHEET.
- 20) E.C. SHALL PROVIDE 120V-1P JUNCTION BOX FOR FUTURE RATED CEILING FAN. PROVIDE SWITCH FOR CEILING FANLIGHT COMBO (PROVIDE 2 SWITCHES IN ADA UNIT, ONE FOR FAN SPEED & 1 FOR FAN LIGHT).

- R1 16.0 EA
- R1 15.0 EA
- R1 12.0 EA
- R3 1.0 EA
- W1: 2.0 EA
- F1 1.0 EA
- F1 1.0 EA
- W1: 1.0 EA
- DUPLEX RECEPTACLE 22.0 EA
- DUPLEX RECEPTACLE GFCI/... 1.0 EA
- SWITCHED DUPLEX RECEPTACLE 1.0 EA
- F1 1.0 EA
- DUPLEX RECEPTACLE GFCI 10.0 EA
- DUPLEX RECEPTACLE 17.0 EA
- UNIT PANELBOARD 1.0 EA
- W1: 1.0 EA
- DISCONNECT SWITCH 3.0 EA
- SPECIAL RECEPTACLE 2.0 EA
- SWITCHED DUPLEX RECEPTACLE 4.0 EA
- JUNCTION BOX 1.0 EA
- THREE WAY SWITCH 4.0 EA
- DUPLEX RECEPTACLE GFCI/... 1.0 EA
- DUPLEX RECEPTACLE GFCI 8.0 EA
- DUPLEX RECEPTACLE 17.0 EA
- SPECIAL RECEPTACLE 2.0 EA
- SMOKE DETECTOR 3.0 EA
- UNIT PANELBOARD 1.0 EA
- SWITCHED DUPLEX RECEPTACLE 1.0 EA
- DUPLEX RECEPTACLE GFCI 8.0 EA
- DISCONNECT SWITCH 3.0 EA
- SWITCH 15.0 EA
- THREE WAY SWITCH 4.0 EA
- JUNCTION BOX 1.0 EA
- DUPLEX RECEPTACLE GFCI/... 1.0 EA
- SMOKE DETECTOR 2.0 EA
- SWITCH 12.0 EA
- SPECIAL RECEPTACLE 2.0 EA
- W3: 3.0 EA
- SWITCH 14.0 EA
- UNIT PANELBOARD 1.0 EA
- THREE WAY SWITCH 5.0 EA
- W3: 3.0 EA
- DISCONNECT SWITCH 6.0 EA
- W3: 1.0 EA
- JUNCTION BOX 1.0 EA
- SMOKE DETECTOR 2.0 EA



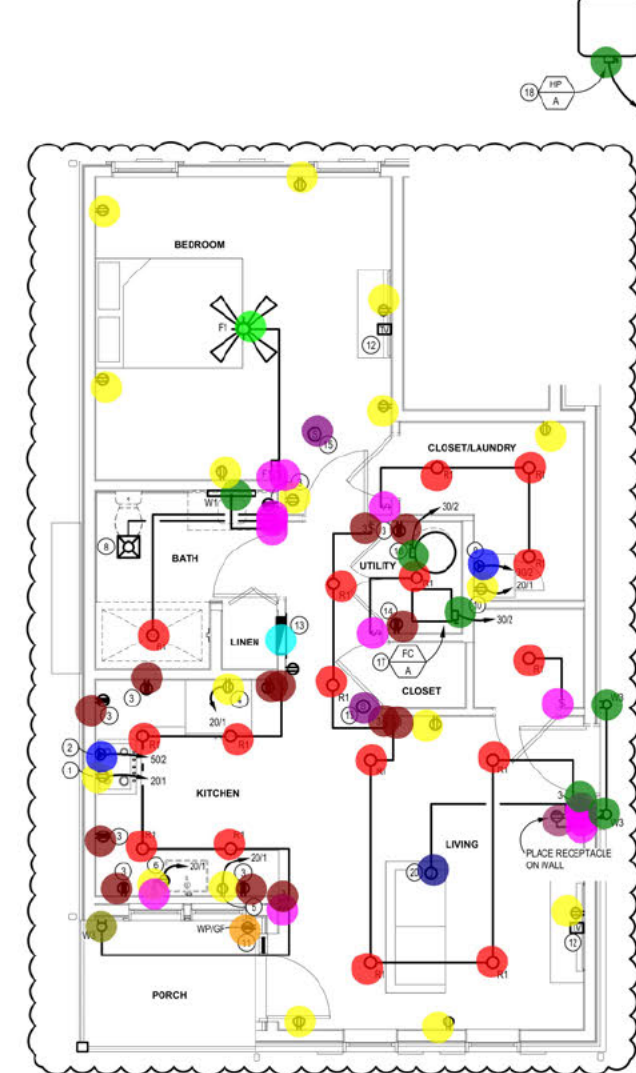
ENLARGED ELECTRICAL PLAN - UNIT TYPE 3

SCALE: 1/4" = 1'-0"



ENLARGED ELECTRICAL PLAN - UNIT TYPE 2

SCALE: 1/4" = 1'-0"



ENLARGED ELECTRICAL PLAN - UNIT TYPE 1- 'ACCESSIBLE'

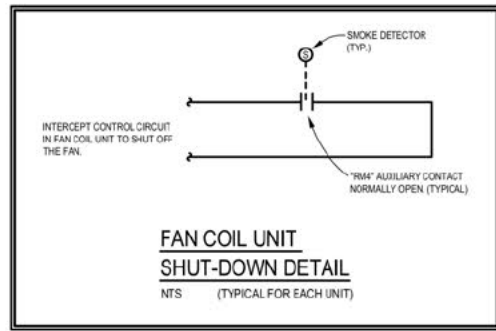
SCALE: 1/4" = 1'-0"

USE FIRE RATED OUTLET BOX IN FIRE RATED WALLS OR STANDARD STEEL
OUTLET BOXES NOT GREATER THAN 10" IN AREA AND SEPARATE 8" 24"
HORIZONTALLY IF LOCATED OPPOSITE ANOTHER DEVICE IN THIS WALL.

NOTE:
E.C. SHALL FURNISH AND INSTALL A
SURGE-PROTECTIVE DEVICE FOR EACH UNIT PANEL
TO SATISFY THE REQUIREMENTS OF NEC 215.10(A).

USE FIRE RATED OUTLET BOX IN FIRE RATED WALLS OR STANDARD STEEL
OUTLET BOXES NOT GREATER THAN 10" IN AREA AND SEPARATE 8" 2"
HORIZONTALLY IF LOCATED OPPOSITE ANOTHER DEVICE IN THIS WALL.

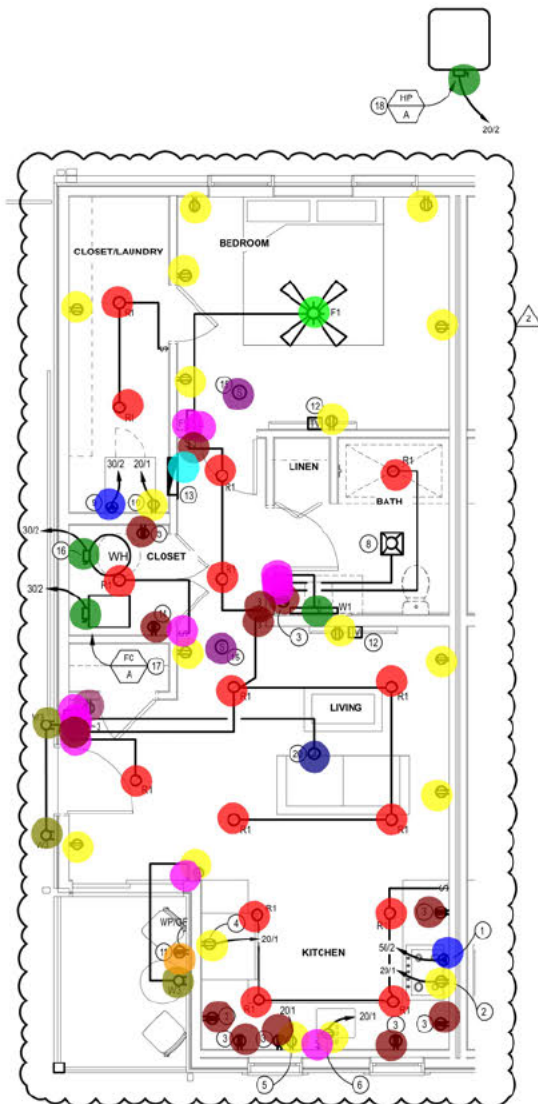
NOTE:
NEC 406.12(1) TAMPER-RESISTANT RECEPTACLES IN ALL AREAS OF DWELLING SPECIFIED IN
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TAMPER-RESISTANT.
NEC 406.12. RECEPTACLES IN THE FOLLOWING LOCATIONS SHALL NOT BE TAMPER-RESISTANT
TYPE:
1) RECEPTACLES LOCATED MORE THAN 5-10 FEET ABOVE THE FLOOR.
2) RECEPTACLES THAT ARE PART OF A LUMINAIRE OR APPLIANCE.
3) A SINGLE RECEPTACLE OR DUPLEX RECEPTACLE FOR TWO APPLIANCES LOCATED WITHIN
DEDICATED SPACE FOR EACH APPLIANCE THAT, IN NORMAL USE, IS NOT EASILY MOVED
FROM ONE PLACE TO ANOTHER AND THAT IS CORE-AND-PLUG CONNECTED.



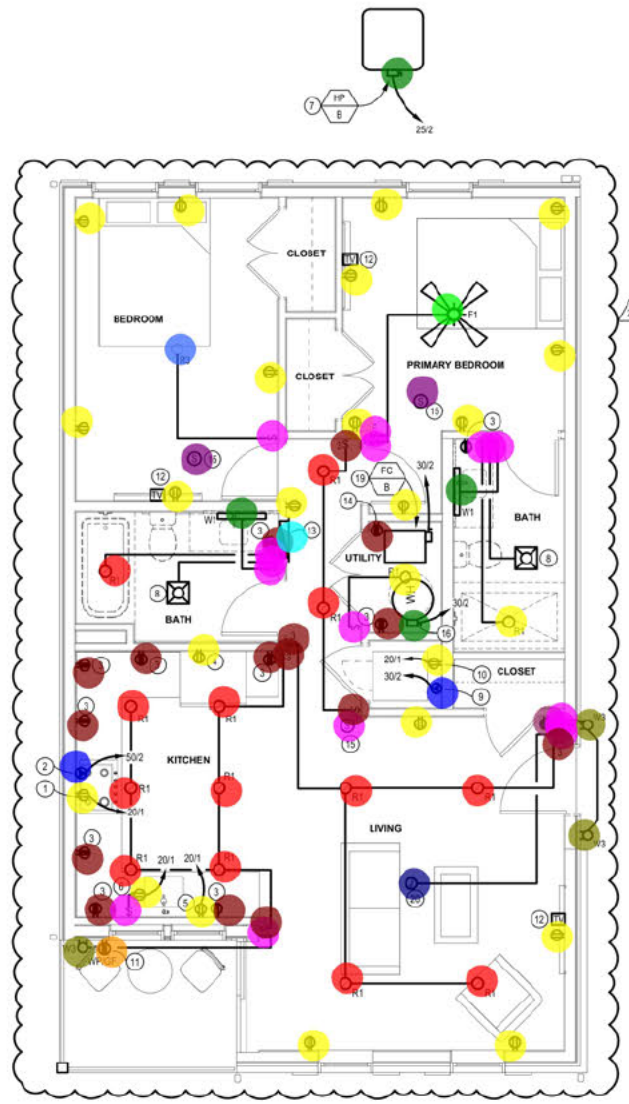
ELECTRICAL CODED NOTES:

- MICROWAVE, 120V, ON COUNTER OR IN MILLWORK. VERIFY EXACT LOCATION AND MOUNTING
HEIGHT WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
- ELECTRIC RANGE, 208V, 1PH. RUN 2 #6 COPPER AND #10 GRD. (OR 2 #4 ALUMINUM AND #10
GRD.) FROM A 50A-2P RANGE OUTLET.
- DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT PROTECTION PER NATIONAL ELECTRIC
CODE. MOUNT @ 44" A.F.F. OR AT HEIGHT AS NOTED.
- REFRIGERATOR, 120 VOLT, @ 60" A.F.F. RUN 2 #12 & #12 GRD FROM DUPLEX RECEPTACLE TO
A 20A-1P GROUND FAULT CIRCUIT BREAKER.
- DISHWASHER, 120V, 1PH. PROVIDE DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT
PROTECTION PER NATIONAL ELECTRIC CODE.
- DISPOSAL, 120V, 1PH. PROVIDE GFCI RECEPTACLE BELOW SINK CONTROLLED BY SWITCH.
VERIFY EXACT LOCATION OF SWITCH. INSTALL PER NEC 422.16(B).
- HEAT PUMP CONDENSING UNIT (HP-B, LOCATED ON ROOF), 208V 1Ø, RUN 2 #10 & #10 GRD
FROM A 30A-2P WP DISCONNECT SWITCH AT UNIT (BY E.C.) TO A 25A-2P BREAKER IN
APARTMENT PANEL. MAKE ALL FINAL CONNECTIONS.
- EXHAUST FAN CEILING MOUNTED, 18W 120V. CONTROLLED BY LIGHT SWITCH.
- DRYER, 50 KW 208 VOLT, 1 PHASE. RUN 2#10 & 1#10 GRD TO A 30A-2P BREAKER. FURNISH
AND INSTALL NEMA 10-30R RECEPTACLE. VERIFY MOUNTING HEIGHT.
- WASHER, 120 VOLT, 1 PHASE. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL
G.F.C.I. DUPLEX OUTLET ON A SEPARATE 20A-1P CIRCUIT.
- EXTERIOR GFCI RECEPTACLE WITH WEATHERPROOF WHILE-IN-USE CLEAR COVER. MOUNT
@ 24" ABOVE FINISHED GROUND OR AS NOTED.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE A SEPARATE LINE ITEM PRICE (ALTER
#7) TO FURNISH AND INSTALL ALL NECESSARY CABLE TV SERVICE ENTRANCE CONDUIT
INTO BUILDING AND THROUGH FIRE PARTITION WALLS AFTER CABLE INSTALLATION. C
SYSTEM SHALL BE PREWIRED BY THE CABLE TV COMPANY OR THE ELECTRICAL
CONTRACTOR. (SYSTEM INSTALLATION IS THE RESPONSIBILITY OF THE ELECTRICAL
CONTRACTOR REGARDLESS OF WHO INSTALLS THE SYSTEM). FULLY COORDINATE THE
INSTALLATION WITH THE CABLE TV COMPANY. AS PART OF THE BASE BID, PROVIDE A 1
E.M.T. CONDUIT W/PULL STRING FROM TV BOX UP IN WALL TO OTHER FLOORS. E.C. TO V
EXACT MOUNTING HEIGHT OF TV & ASSOCIATED RECEPTACLE.
- UNIT PANELBOARD, RECESSED. PROVIDE CIRCUIT DIRECTORY. VERIFY EXACT LOCATION,
PROVIDE ALL REQUIRED CLEARANCES. SEE ELECTRICAL RISER FOR ADDITIONAL
INFORMATION.
- DEMARK LOCATION FOR STRUCTURED MEDIA CENTER ENCLOSURE. PROVIDE GFCI
RECEPTACLE @ 7'-0". VERIFY EXACT LOCATION AND MOUNTING HEIGHT IN FIELD. PROVIDE
CAT6 CABLE TO TELEPHONE OUTLET AND COAX TO TV OUTLETS FROM THIS LOCATION.
COORDINATE ALL WORK W/ LOW VOLTAGE CONTRACTOR.
- CEILING MOUNTED SINGLE MULTIPLE STATION SMOKE DETECTOR, DUAL SENSING
TECHNOLOGY (PHOTOELECTRIC AND IONIZATION) KIDDE MODEL P12010, 120 VOLT WITH
BATTERY BACK-UP, FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. DIRECT
WIRE DETECTORS TO THE LIGHTING CIRCUIT IN THE ROOM WHERE IT IS LOCATED.
INTERWIRE DETECTORS SO THAT ACTIVATION OF ONE DEVICE WILL ACTIVATE ALL OTHER
ALARMS WITHIN THE INDIVIDUAL UNIT. WIRING SYSTEMS AND POWER SOURCES SHALL
COMPLY WITH STATE AND LOCAL CODE AND FOLLOW MANUFACTURER'S
RECOMMENDATIONS. INSTALL A MINIMUM OF 10' FROM ANY COOKING APPLIANCE.

R1	13.0 EA
R1	15.0 EA
R3	1.0 EA
F1	1.0 EA
W1:	1.0 EA
F1	1.0 EA
W1:	2.0 EA
DUPLEX RECEPTACLE	18.0 EA
DUPLEX RECEPTACLE	24.0 EA
SWITCHED DUPLEX ...	1.0 EA
SWITCH	12.0 EA
W3:	3.0 EA
THREE WAY SWITCH	4.0 EA
SWITCH	16.0 EA
DUPLEX RECEPTAC...	9.0 EA
SPECIAL RECEPTACLE	2.0 EA
JUNCTION BOX	1.0 EA
THREE WAY SWITCH	6.0 EA
SWITCHED DUPLEX ...	1.0 EA
DUPLEX RECEPTAC...	1.0 EA
W3:	3.0 EA
JUNCTION BOX	1.0 EA
SMOKE DETECTOR	2.0 EA
DUPLEX RECEPTAC...	10.0 EA
SPECIAL RECEPTACLE	2.0 EA
SMOKE DETECTOR	2.0 EA
DUPLEX RECEPTAC...	1.0 EA
DISCONNTCT SWIT...	3.0 EA
DISCONNTCT SWIT...	2.0 EA
UNIT PANELBOARD	1.0 EA
UNIT PANELBOARD	1.0 EA



ENLARGED ELECTRICAL PLAN - UNIT TYPE 5
SCALE: 1/4" = 1'-0"



ENLARGED ELECTRICAL PLAN - UNIT TYPE 4
SCALE: 1/4" = 1'-0"

SPRINKLER MONITORING LEGEND			
<u>FIRE ALARM LEGEND NOTES:</u> 1. MOUNTING HEIGHTS INDICATED ARE TO THE CENTER OF THE DEVICE OR FIXTURE. 2. MOUNTING HEIGHTS ARE TYPICAL UNLESS NOTED OTHERWISE ON THE FLOOR PLANS. 3. REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL INFORMATION ON EXACT DEVICE AND FIXTURE LOCATIONS MOUNTING HEIGHTS AND COORDINATION WITH ARCHITECTURAL HARDWARE AND FIXTURES. 4. NOT ALL SYMBOLS APPLY			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FIRE ALARM SYSTEM MANUAL PULL STATION @48" A.F.F. ADDRESSABLE.		FIRE ALARM CONTROL PANEL @6'-0" TO TOP
	FIRE ALARM SYSTEM VISUAL ONLY SIGNAL DEVICE, (STROBE) @60" A.F.F.		FIRE ALARM REMOTE ANNUNCIATOR PANEL
	FIRE ALARM SYSTEM COMBINATION AUDIO/VISUAL SIGNAL DEVICE (HORN/STROBE) @80" A.F.F.		FIRE ALARM SYSTEM PHOTOELECTRIC SMOKE DETECTOR WITH PROBE, DUCT MOUNTED, ADDRESSABLE
	FIRE ALARM SYSTEM PHOTOELECTRIC SMOKE DETECTOR CEILING MOUNTED, ADDRESSABLE		REMOTE TEST STATION FOR DUCT MOUNTED SMOKE DETECTOR @54" A.F.F.
	FIRE SUPPRESSION SYSTEM TAMPER SWITCH FURN. AND INSTALLED BY FIRE PROTECTION CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR. PROVIDE ADDRESSABLE MONITOR MODULE		FIRE SUPPRESSION SYSTEM WATERFLOW SWITCH FURN. AND INSTALLED BY FIRE PROTECTION CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR. PROVIDE ADDRESSABLE MONITOR MODULE
	FIRE ALARM SYSTEM HEAT SENSOR CEILING MOUNTED, ADDRESSABLE		

ELECTRICAL LEGEND	
ELECTRICAL LEGEND NOTES: 1. MOUNTING HEIGHTS INDICATED ARE TO THE TOP OF THE DEVICE OR FIXTURE. 2. MOUNTING HEIGHTS ARE TYPICAL UNLESS NOTED OTHERWISE ON THE FLOOR PLANS. 3. REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL INFORMATION ON EXACT DEVICE AND FIXTURE LOCATIONS, MOUNTING HEIGHTS AND COORDINATION WITH ARCHITECTURAL HARDWARE AND FIXTURES. 4. NOT ALL SYMBOLS APPLY.	
LIGHTING	
SYMBOL	DESCRIPTION
	WALL SWITCH @48" A.F.F. 20A, 120V
	THREE-WAY SWITCH @48" A.F.F. 20A, 120V
	OCCUPANCY SENSOR WALL MOUNTED @48" A.F.F.
	OCCUPANCY SENSOR CEILING MOUNTED
	LIGHTING OUTLET, RECESSED OR SURFACE MOUNTED PER FIXTURE SCHEDULE.
	LIGHT FIXTURE ON NIGHT LIGHT
	CEILING LIGHTING OUTLET, RECESSED OR SURFACE MOUNTED PER FIXTURE SCHEDULE
	WALL LIGHTING OUTLET @ HEIGHT PER FIXTURE SCHEDULE OF ARCHITECTURAL ELEVATIONS.
	EMERGENCY EXIT LIGHT SINGLE FACE, CLG. MOUNTED
	EMERGENCY EXIT LIGHT, SINGLE FACE, WALL MOUNTED
	COMBINATION EMERGENCY EXIT/EGRESS LIGHT, SINGLE FACE, CEILING MOUNTED
	EMERGENCY EGRESS LIGHT @90" A.F.F. WALL MOUNTED
	EMERGENCY REMOTE HEAD FOR EXIT DISCHARGE
	DATA DROP FOR CAMERA LOCATION, VERIFY EXACT LOCATION WITH SECURITY CONSULTANT
POWER	
SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE @20" A.F.F. 20A, 125V
	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER @20" A.F.F. 20A, 125V
	DUPLEX RECEPTACLE WITH WEATHERPROOF WHILE-IN-USE COVER @ A.F.F. OR A.F.G. 20A, 125V
	DOUBLE DUPLEX RECEPTACLE @ 20" A.F.F. 20A, 125V
	DUPLEX RECEPTACLE AMPERAGE, @20" A.F.F. COORDINATE NEMA CONFIG. WITH EQUIPMENT FED.
	JUNCTION BOX MOUNTED AS NOTED.
	SAFETY DISCONNECT SWITCH @90" A.F.F. TO TOP
	PANELBOARD, SURFACE MOUNTED @9" A.F.F. TO TOP
	PANELBOARD, FLUSH MOUNTED @6" A.F.F. TO TOP
	CEILING EXHAUST FAN BY M.C. WYED (FURNI E.C.) MAKE ALL CONNECTIONS AS INDICATED ON DRAWING.
	4" SQ. BOX W/IG PLASTER RING @20" A.F.F. FOR NETWORK OUTLET. COVERPLATE WIRING & TERMINATION BY OWNER RUN 3/4". FROM BOX UP IN WALL TO ABOVE ACCESSIBLE CEILING
	COMBINATION OCCUPANCY DIMMER/SENSOR/DEEL @48" AFF
	SWITCHED DUPLEX RECEPTACLE SWITCH @48" A.F.F. 20A, 125V

LIGHTING FIXTURE SCHEDULE						
MARK	DESCRIPTION	VOLT	LAMP	MOUNT	MANUFACTURER	
P1-L	EXTERIOR LED POLE LIGHT - LEFT CUT/OFF	120	51W LED 5448 LUM 3000K	SUM SURFACE	LITHONIA LIGHTING DSX1-LED-P1-30K-700R-1-CC0-MVOLT-DOBVD MOUNTED TO 12" Ø POLE W/ 30" POLE BASE	
P1-R	EXTERIOR LED POLE LIGHT - RIGHT CUT/OFF	120	51W LED 5448 LUM 3000K	SURFACE	LITHONIA LIGHTING DEX1-LED-P1-30K-700R-1-CC0-MVOLT-DOBVD MOUNTED TO 12" Ø POLE W/ 30" POLE BASE	
R1	4" DIAMETER SUM SURFACE DOWNLIGHT WITH WHITE TRIM	120	10W LED 60 LUM 3000K	SUM SURFACE	HALO SM40-4-6-300-WH-DM PROVIDE WITH STEEL FIRE RATED JUNCTION BOX	
R2	12" DIAMETER EXTERIOR SURFACE DOWNLIGHT	120	16.0W LED 1077 LUM 2600K	SURFACE	LITHONIA CLCPA-15-DCB	
R3	14.5" DIAMETER SURFACE MOUNTED	120	29W LED 1200 LUM 3000K	CEILING SURFACE	LUMENCIA LLC02180-AMCT-SN-OR8-PDA	
W1	24" LINEAR VANTY FIXTURE FROSTED LENS BLACK FINISH	120	38W LED 1942 LUM 3000K	WALL MOUNTED	PROGRESS LIGHTING P300190-031-20	
W2	FORWARD THROW MEDIUM OPTIC	120	54W LED 5037 LUM 9000K	WALL MOUNTED	DSXNWX LED 3XC 30K 30K TPTM MVOLT	
W3	EXTERIOR LED WALL SCONCE	120	LED LUM 4000K	WALL MOUNTED	LITHONIA LIGHTING LDN6CYL-30/07-LO6-AR-LSS-MVOLT-6210-WH-W-ORL	
F1	84" 3 BLADE CEILING FAN BLACK FINISH WITH WALL SWITCH & REVERSE SWITCHING	120	11W LED 1600 LUM 3000K	CEILING MOUNT	FANINATION #P0K7218BL-64BL-UX-F W/ WALL CONTROL C21	
S1	8" STRIP	120	LED SET TO 8000LM 4000K	WALL MOUNT	LITHONIA #CS5196 AL04 MVOLT SWW6 BOCRI	
X1	3-HEAD EMERGENCY FIXTURE	120	LED FURN W UNIT	CEILING MOUNT	LITHONIA #EUC2 M7	

NOTES:
 1. CONNECT ALL EXIT & EMERGENCY LIGHTS TO LOCAL AREA LIGHTING CIRCUIT AHEAD OF ANY SWITCHING AND AUTOMATIC CONTROLS.
 2. EQUAL FIXTURES BY COOPER, HUBBELL, LSI, PHILIPS OR LITHONIA.

The diagram illustrates the wiring for a Sprinkler Monitoring Riser. A central box labeled 'SPRINKLER MONITORING CONTROL PANEL' is connected to several components:

- Top Left:** 'SPRINKLER WATERFLOW & TAMPER SWITCHES' connected to an 'ADDRESSABLE MONITOR MODULE'.
- Top Right:** '2 #14 POWER' and '2 COND#18 TWISTED SHIELDED PAIR, COMMUNICATION' lines.
- Middle Left:** 'REMOTE TEST SWITCH' (labeled 'RT') and 'DUCT MOUNTED SMOKE DETECTOR (TYP.)' (labeled 'S').
- Bottom Left:** '2 #14 TO SHUTDOWN HVAC UNIT (TYP. FOR ALL HVAC UNITS)', 'DOOR CONTROLS' (labeled 'D'), and '2 #14 TO OPEN DOORS UPON ALARM'.
- Bottom:** '2 #14 TO OPEN DOORS UPON ALARM', 'SERVER/ELEC. ROOM 121', '120VAC', and '(2) RJ3X TELEPHONE JACKS - DACT COMM. CABLE'.
- Right:** 'TO ADDRESSABLE/INITIATION DEVICES SMOKE DETECTORS, PULL STATIONS' (labeled 'S'), 'TO SIGNAL DEVICES' (labeled 'F'), and 'LOC'.

SCHEMATIC SPRINKLER MONITORING RISER
NO SCALE

The diagram illustrates the grounding details for a service entrance. It shows the connection between the service entrance/meter, ground bus, neutral bus, building structural steel, concrete-encased electrode, and an underground metal water pipe. A ground rod is shown with a cold-weld connection or exothermic weld. The diagram is annotated with callouts 1 through 8, corresponding to the 'CODED NOTES' on the right. A legend in the bottom left corner defines the line styles: solid for preferred wiring, dashed for acceptable wiring, and a combination of solid and dashed for alternate wiring. The bottom of the diagram is labeled 'SERVICE ENTRANCE GROUNDING DETAIL' and 'NO SCALE'.

CODED NOTES:

- ALL GROUNDING AND BONDING MUST COMPLY WITH NEC ARTICLE 250 AND/OR LOCAL ORDINANCES.
- USE NEC TABLE 250-66 TO SIZE BONDING CONDUCTORS/JUMPS. BONDING JUMPS MUST BE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 250-68.
- BOND GROUND ROD, METAL WATER PIPE, BUILDING STEEL, OR METAL (WHERE EFFECTIVELY GROUND) AND CONCRETE-ENCASED ELECTRODE (SEE CODED NOTE 7). CONNECTION TO METAL WATER PIPE SHALL BE MADE WITHIN 5 FEET OF POINT OF ENTRANCE OF PIPE PER NEC 250.52 (A) (1).
- ALTERNATE BONDING SCHEME: BOND GROUND ROD, BUILDING STEEL OR METAL (WHERE EFFECTIVELY GROUND) AND CONCRETE-ENCASED ELECTRODE (SEE CODED NOTE 7) TO METAL WATER PIPE. CONNECTIONS TO METAL WATER PIPE SHALL BE MADE WITHIN 5 FEET OF POINT OF ENTRANCE OF PIPE PER NEC 250.52 (A) (1).
- LOCATE GROUND ROD OUTSIDE BUILDING WALL NEAR SERVICE ENTRANCE. IF MEASURED RESISTANCE BETWEEN GROUND ROD AND EARTH IS 25 OHMS OR LESS, A SINGLE GROUND ROD IS REQUIRED. IF MEASURED RESISTANCE IS GREATER THAN 25 OHMS, INSTALL SUPPLEMENTAL ELECTRODE, NOT LESS THAN 6'-0" APART FROM ORIGINAL GROUND ROD, PER NEC 250.53 (A) (2) & (3).
- PROTECT GROUNDING AND BONDING CONDUCTORS WHERE THEY PENETRATE CONCRETE FOUNDATIONS.
- SIZE CONDUCTOR PER NEC TABLE 250.66 AND NEC ARTICLE 250.66.
- CONCRETE-ENCASED ELECTRODE ENCASED WITHIN AT LEAST 2 INCHES OF CONCRETE, LOCATED WITHIN AND NEAR THE BOTTOM OF A CONCRETE FOUNDATION OR FOOTING IN DIRECT CONTACT WITH THE EARTH. MINIMUM 20 FOOT LENGTH OF ELECTRICALLY CONDUCTIVE MATERIAL. (SEE NEC 250.52 (A) (3)).
- SEE ELECTRICAL RISER FOR MINIMUM SIZE AWG COPPER - PER NEC 250.52 (A) (3).

250.52 GROUNDING ELECTRODE SYSTEM. ALL GROUNDING ELECTRODES AS DESCRIBED IN 250.52(A)(1) THROUGH (A)(7) THAT ARE PRESENT AT EACH BUILDING OR STRUCTURE SERVED SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM. WHERE NONE OF THESE GROUNDING ELECTRODES EXIST, ONE OR MORE OF THE GROUNDING ELECTRODES SPECIFIED IN 250.52(A)(4) THROUGH (A)(8) SHALL BE INSTALLED AND USED.

SERVICE ENTRANCE GROUNDING DETAIL

NO SCALE

The diagram illustrates the electrical system for a building meter center. It shows the following components and connections:

- Utility Transformer:** A power company transformer with a pad or vault by E.C. It provides (2) 5°C to the utility company pick-up point.
- House Panel:** A 100A panel with 120/208V, 3PH, 3W, 100A M.L.B., 12,000 A I.C., and 50A 0/100/150A CIRCUITS.
- Meter Center:** A central unit with 800A fuses and a 800A switch. It is labeled "METER CENTER BY E.C. 120/208V, 3PH, 4W, NEMA 3R".
- House Panel Meter:** A 100A-2P breaker and house panel meter.
- Typical Apt. Panel:** A 100A panel with 120/208V, 3PH, 100A M.L.B., 12,000 A I.C., and 50A CIRCUITS. It is labeled "TYPICAL OF 18 UNITS".
- Connections:**
 - 3 #2 CU (OR #16AL) & 1 #8 GRD from the meter center to the house panel.
 - 3 #1 CU (OR #16AL) & 1 #6 CU GRD from the meter center to the typical apt. panel.
 - 100A-2P BREAKER BY EC (TYP. OF 18) from the meter center to the typical apt. panel.
 - 100A-2P BREAKER (HOUSE PANEL) from the meter center to the house panel.
 - 800A FUSES and 800A SWITCH in the meter center.
 - #3/0 COPPER SERVICE GRD. from the meter center to the ground.
- Notes:**
 - NOTE: PROVIDE CLASS L FUSES (250,000 AIC) FOR MAIN DISCONNECT SWITCH IN METER CENTER.
 - UTILITY COMPANY PAD MOUNTED TRANSFORMER. COORDINATE EXACT INSTALLATION REQUIREMENTS WITH UTILITY COMPANY IN FIELD PRIOR TO BEGINNING WORK.
 - PAD OR VAULT BY E.C.
 - (1) SETS OF 4 #400 KCMIL AL IN 4" C. EACH SET.