

	Description	Quantity	Unit
■	Audible Smoke Alarm W/ Battery	8	Count
—	Conduits	345.24	ft
◆	Disconnect Switch	8	Count
■	Duplex GF Protected Receptacle (2) DC USB Charging Ports	12	Count
■	Duplex Protected Receptacle (2) DC USB Charging Ports	4	Count
■	Duplex Receptacle	53	Count
G-1 LO	Fire Alarm Horn/Speaker W/ Visual Device	8	Count
BA	GFCI Duplex Receptacle	28	Count
AF	J - Junction Box	8	Count
GR	L-202 - one Light (1) 13W GU24 Bulb	12	Count
SC	L-203 - One Light (1) 15W LED Lamp	20	Count
G-2 SN	L-204 - Two Light (2) 13W GU24 Lamp	12	Count
LIG	L-205A - 3 Light Vanity Fixture	7	Count
DW	L-206 - One Light	4	Count
AN	Light Fixture	3	Count
SH	Panel Board	4	Count
G-3 RE	Single Pole Single Throw Switch	51	Count
IN	Special Purpose Receptacle	8	Count
DE	Split Wired Duplex Receptacle	8	Count
G-4 AL	Three Way Switch	7	Count
BE			
G-5 OU			
EF			
G-6 PR			
AP			
G-7 PR			

## KEY NOTES:

- (1) SMOKE ALARMS SHALL BE 120V WITH BATTERY BACK UP. SMOKE ALARMS SHALL BE NO LESS THAN 36" FROM A BATHROOM DOOR, SUPPLY AIR REGISTER, OR TIP OF A CEILING FAN BLADE.
- (2) CONTRACTOR SHALL FURNISH AND INSTALL A NEMA 14-30R RECEPTACLE AND CIRCUIT OF 3#10, #10G FOR DRYER. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT ACTUALLY FURNISHED.
- (3) CONTRACTOR SHALL FURNISH AND INSTALL A NEMA 5-20R RECEPTACLE AND CIRCUIT OF 2#12, #12G, FOR WASHER. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT ACTUALLY FURNISHED.
- (4) CONTRACTOR SHALL FURNISH AND INSTALL A 30-AMP, 2-POLE NEMA 1 DISCONNECT AND CIRCUIT OF 2#10, 1#10G FOR WATER HEATER. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT ACTUALLY FURNISHED.
- (5) PROVIDE UL LISTED NEMA DISCONNECT TO AHU IF REQUIRED. VERIFY DISCONNECT REQUIREMENTS WITH OWNER'S AHU EQUIPMENT SELECTION BEFORE INSTALLATION. IF THE OWNER'S AHU SELECTION DOES NOT HAVE AN INTEGRAL DISCONNECT PROVIDE A SEPARATE DISCONNECT AS REQUIRED. SEE MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR ELECTRICAL INSTALLATION AND DISCONNECT REQUIREMENTS. A LOCK-OFF CIRCUIT BREAKER MAY BE USED INSTEAD OF A DISCONNECT SWITCH WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- (6) CONTRACTOR SHALL FURNISH AND INSTALL SWITCH AND SINGLE RECEPTACLE FOR DISPOSAL. FOR HANDICAP UNITS, DISPOSAL SHALL BE HARDWIRED AND SWITCH SHALL BE MOUNTED WITHIN CABINET BELOW.
- (7) PROVIDE SINGLE 20A RECEPTACLE IN CABINETRY FOR CONNECTION TO MICROWAVE/HOOD COMBINATION. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT ACTUALLY FURNISHED.
- (8) CONTRACTOR SHALL FURNISH AND INSTALL A NEMA 14-50R RECEPTACLE AND CIRCUIT OF 3#8, #10G, FOR RANGE/OVEN. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT ACTUALLY FURNISHED.
- (9) PROVIDE CEILING FAN RATED JUNCTION BOX.
- (10) CONTRACTOR SHALL INSTALL LOAD CENTER PANEL FLUSH MOUNTED. INSTALLATION SHALL MAINTAIN FIRE RATING OF WALL, WHERE APPLICABLE.
- (11) PROVIDE RECEPTACLE FOR TELECOMMUNICATIONS STRUCTURED MEDIA CENTER PANEL (MP). COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TELECOM DRAWINGS BEFORE INSTALLATION.
- (12) PROVIDE PENINSULA/ISLAND RECEPTACLE MAX. 12" BELOW TOP OF COUNTER, IF/WHERE COUNTER BACKSPLASH DOES NOT AFFORD HORIZONTAL MOUNTING OF RECEPTACLE. LOCATE RECEPTACLE SO THAT IT IS NO MORE THAN 6" FROM THE EDGE OF THE PENINSULA/ISLAND OVERHANG.
- (13) TELEPHONE/DATA AND CATV OUTLETS SHALL HOMERUN TO STRUCTURED MEDIA CENTER.
- (14) PROVIDE COMBINATION SMOKE/CO ALARM. COMBINATION SMOKE/CO ALARM SHALL BE CONNECTED TO UNSWITCHED HOT CONDUCTOR IN CIRCUIT.
- (15) CONTRACTOR SHALL FURNISH AND INSTALL A NEMA 5-20R RECEPTACLE AND CIRCUIT OF 2#12, #12G FOR DISHWASHER. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT ACTUALLY FURNISHED.
- (16) PROVIDE DUAL USB OUTLET (GFI IN KITCHENS/BATHROOMS). VERIFY TYPE AND MANUFACTURER WITH OWNER PRIOR TO INSTALLATION.
- (17) CONTRACTOR SHALL FURNISH AND INSTALL A JUNCTION BOX WITH ASSOCIATED CABLING FOR WATER SUB-METERING SYSTEM. COORDINATE EXACT REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO INSTALLATION.
- (18) COORDINATE LOCATION OF WASHER AND DRYER RECEPTACLE WITH PLUMBING AND HVAC TO AVOID CONFLICTS. PROVIDE A MOCK UP OF EACH CONDITION PRIOR TO ROUGHING IN THE ENTIRE PROJECT.

UPDATED LIGHTING LAYOUT PER LATEST UNIT ID RCP.



GEN	
G-1 LO	Fire Alarm Horn/Speaker W/ Visual Device
BA	GFCI Duplex Receptacle
AF	J - Junction Box
GR	L-202 - one Light (1) 13W GU24 Bulb
SC	L-203 - One Light (1) 15W LED Lamp
G-2 SN	L-204 - Two Light (2) 13W GU24 Lamp
LIG	L-205A - 3 Light Vanity Fixture
DW	L-206 - One Light
AN	Light Fixture
SH	Panel Board
G-3 RE	Single Pole Single Throw Switch
IN	Special Purpose Receptacle
DE	Split Wired Duplex Receptacle
G-4 AL	Three Way Switch
BE	
G-5 OU	
EF	
G-6 PR	
AP	
G-7 PR	

COMPONENT COUNTING LOCATIONS WITHIN ARCHITECTURAL/INTERIORS DRAWINGS.  
G-8 SEVERAL DWELLING UNIT CIRCUITS AND RECEPTACLES ARE REQUIRED TO BE AFCI- AND/OR GFCI-PROTECTED. REFER TO DRAWINGS AND LOAD CENTER SCHEDULES FOR MORE INFORMATION.G-9 FOR EACH DWELLING UNIT LOCATED AT GRADE-LEVEL OR ON A FLOOR ACCESSIBLE BY ELEVATOR:  
• LOAD CENTER SHALL BE INSTALLED SO THAT NO TRIM LATCH OR BREAKER IS GREATER THAN 48 A.F.F.  
• FOR ALL DESIGNATED "ANSI TYPE A" UNITS, A TOGGLE SWITCH SHALL BE FIELD-INSTALLED AND WIRED FOR THE RANGE HOOD/LIGHT CIRCUIT. SWITCH SHALL BE MOUNTED ABOVE COUNTER WITHIN REQUIRED REACH RANGES.G-10 UNLESS DIRECTED OTHERWISE, DESIGNATED "ANSI TYPE A" UNITS SHALL HAVE COMMUNICATION FEATURES FOR SENSORY-IMPAIRED (HEARING OR VISION):  
• FURNISH AND INSTALL AN EDWARDS (OR EQUAL) "DOORBELL" SYSTEM (CAT# 7005-G5), CONSISTING OF A LOW-VOLTAGE TRANSFORMER, PUSHBUTTON AND HORN/STROBE. LOCATE PUSHBUTTON WITH COVERPLATE (CAT# 147-10) OUTSIDE OF ENTRY DOOR. TRANSFORMER CONCEALED WITHIN CLOTHES CLOSET. AND HORN/STROBE WITHIN LIVING ROOM.  
• EACH FIRE ALARM SYSTEM AUDIBLE APPLIANCE SHALL BE EQUIPPED WITH A VISUAL DEVICE.  
• A FIRE ALARM VISUAL DEVICE SHALL BE INSTALLED IN EACH BATHROOM.  
• REFER TO DETAIL INCLUDED IN THESE DRAWINGS FOR WIRING DIAGRAM OF SMOKE ALARMS AND FIRE ALARM DEVICES.G-11 ELEC/ENVIRONMENTAL CONTROLS REQUIREMENTS FOR ANSI AND FAIR HOUSING:  
A. LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS: ITEMS MUST BE POSITIONED SO THAT CONTROLS SHALL BE LOCATED NOT HIGHER THAN 46" A.F.F. (TO HIGHEST OPERABLE POSITION).  
B. ELECTRICAL OUTLETS SHALL BE MOUNTED SO THAT THE MINIMUM HEIGHT IS 15" TO LOWEST OUTLET.  
C. CONTROLS AND/OR OUTLETS SHALL BE MOUNTED NOT HIGHER THAN 46" MAX WHEN WIDTH OF THE COUNTERTOPS ARE 20" MIN. AND 25" MAX.  
D. SIDE UNOBSTRUCTED APPROACHES ARE MIN. 15" TO MAX. 48" A.F. PER ANSI'S '98, '03, & '09.

G-12 REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR ALL HVAC INFORMATION.

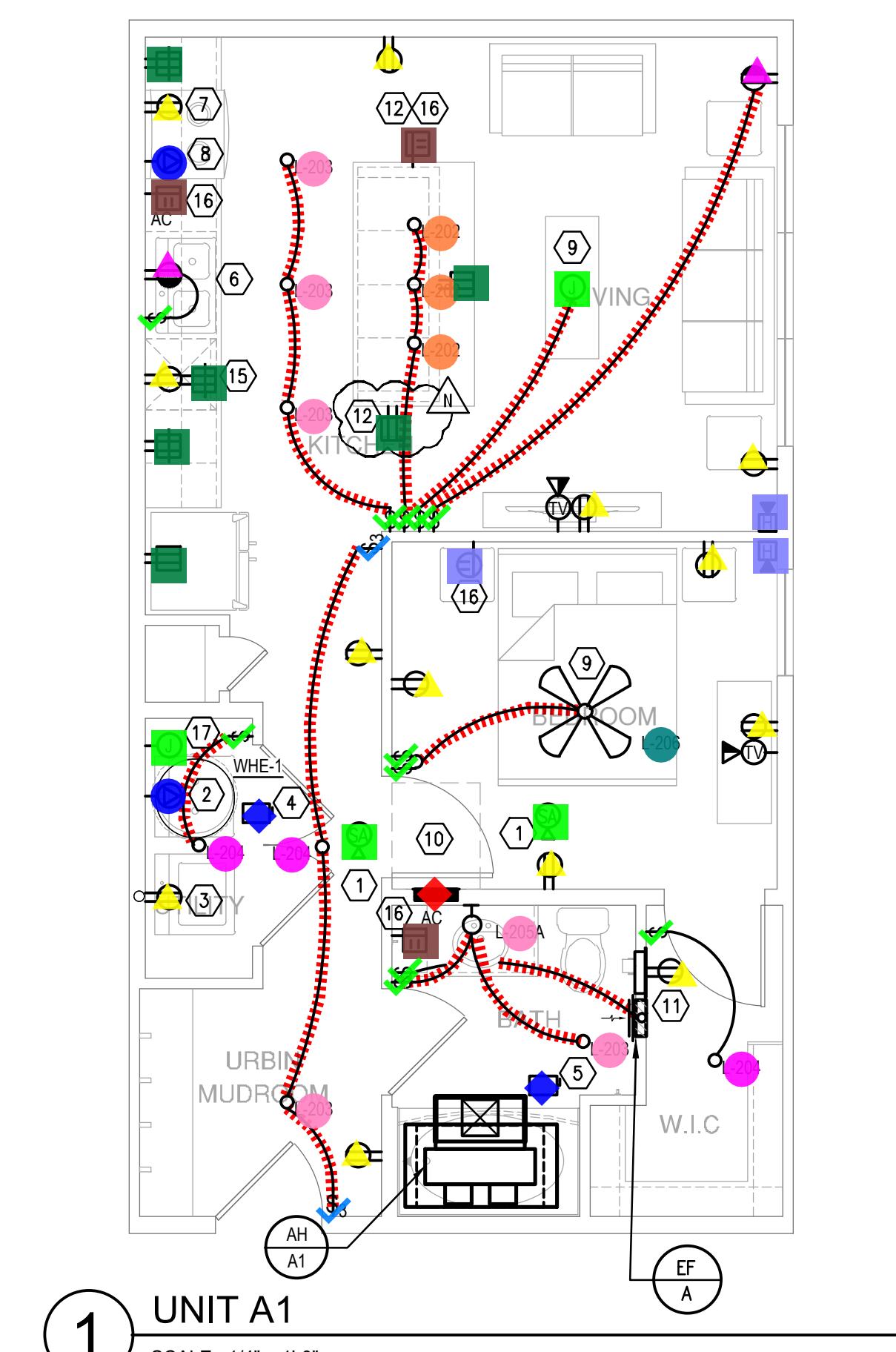
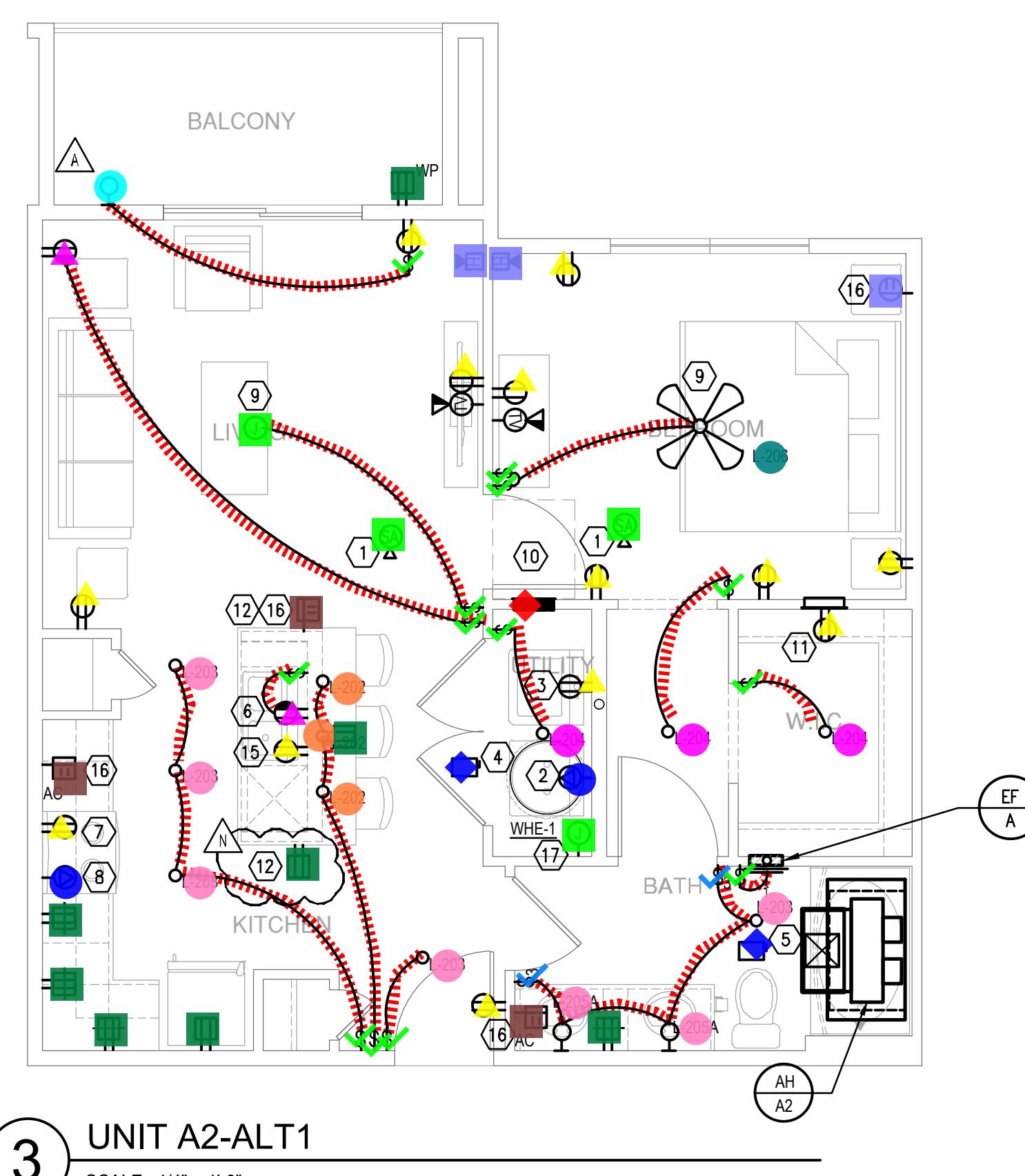
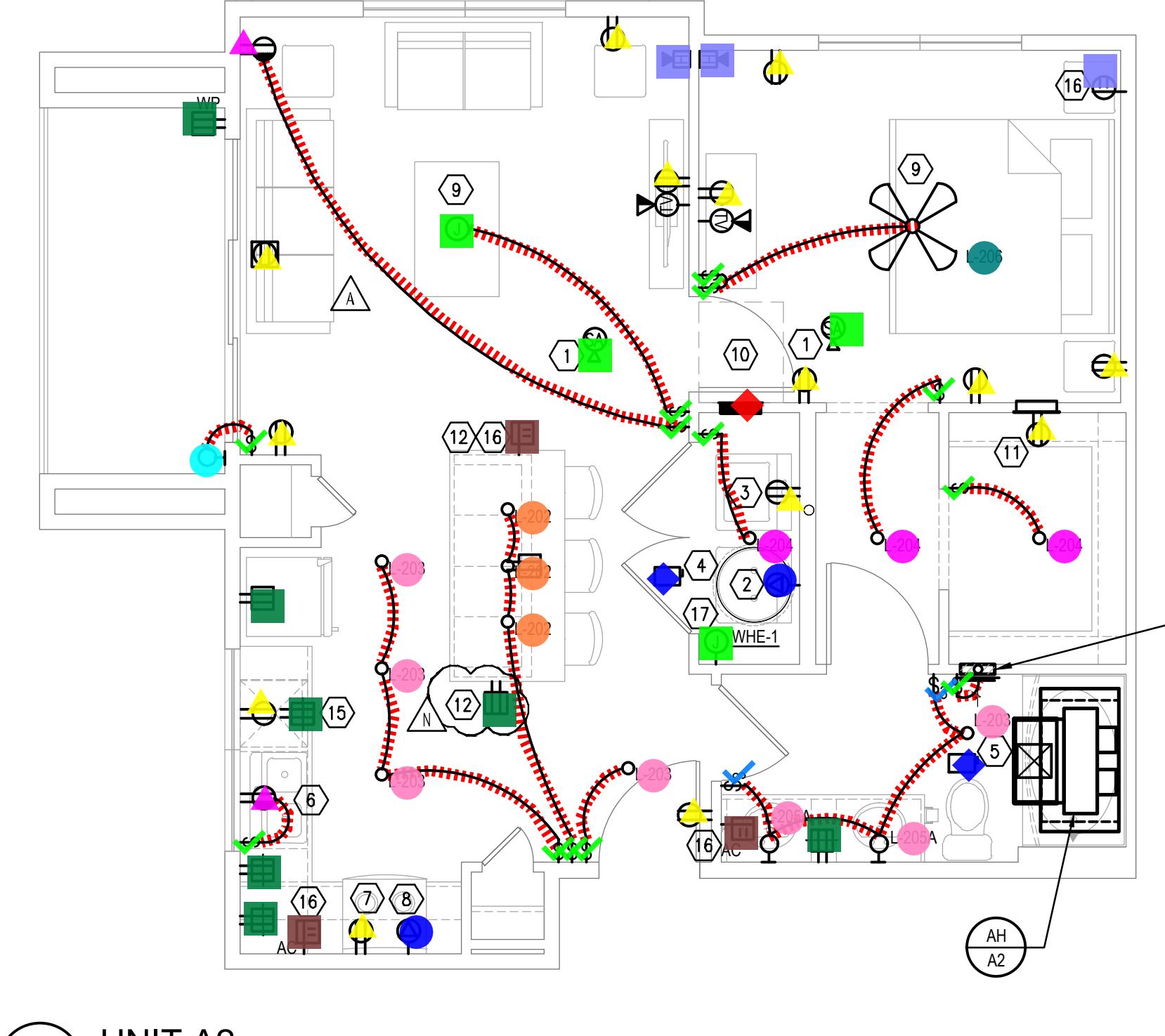
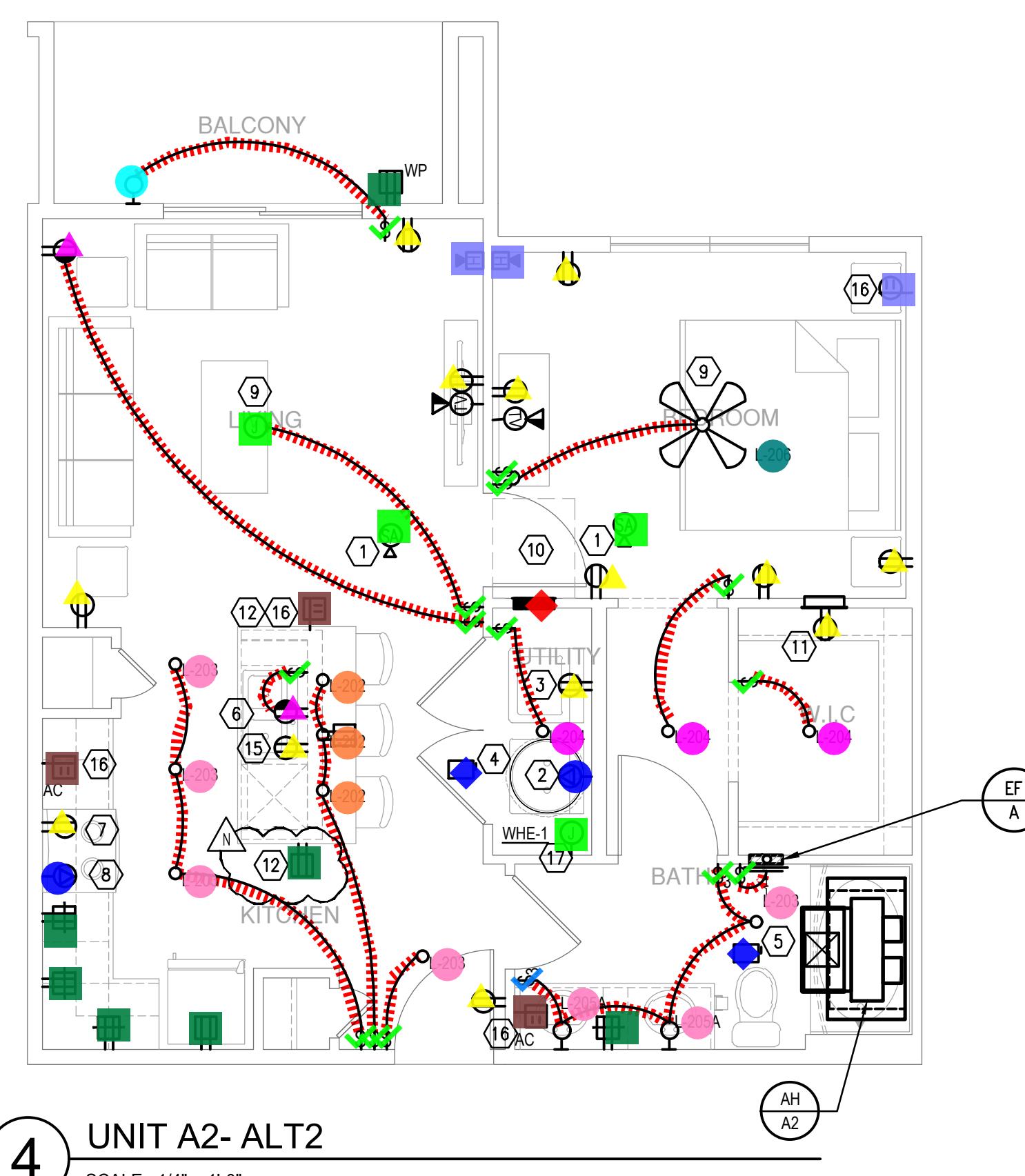
G-13 EACH BATHROOM SHALL HAVE A SEPARATE CIRCUIT FOR ALL OUTLETS AND EQUIPMENT LOCATED WITHIN THE BATHROOM. NO OTHER DEVICES WITHIN THE DWELLING UNIT SHALL BE CONNECTED TO THIS CIRCUIT.

G-14 ALL CEILING JUNCTION BOXES SUPPORTING LIGHT FIXTURES THAT ARE MORE THAN 24" FROM A WALL DOOR, OR CABINET, MUST UTILIZE A CEILING FAN RATED JUNCTION BOX PER NEC 314.27 (C).  
G-15 ON ANSI UNITS, PROVIDE A DEDICATED GFCI CIRCUIT FOR THE MICROWAVE.SHEET TITLE  
UNIT PLAN

SHEET NUMBER

E3.01

ISSUED FOR CONSTRUCTION



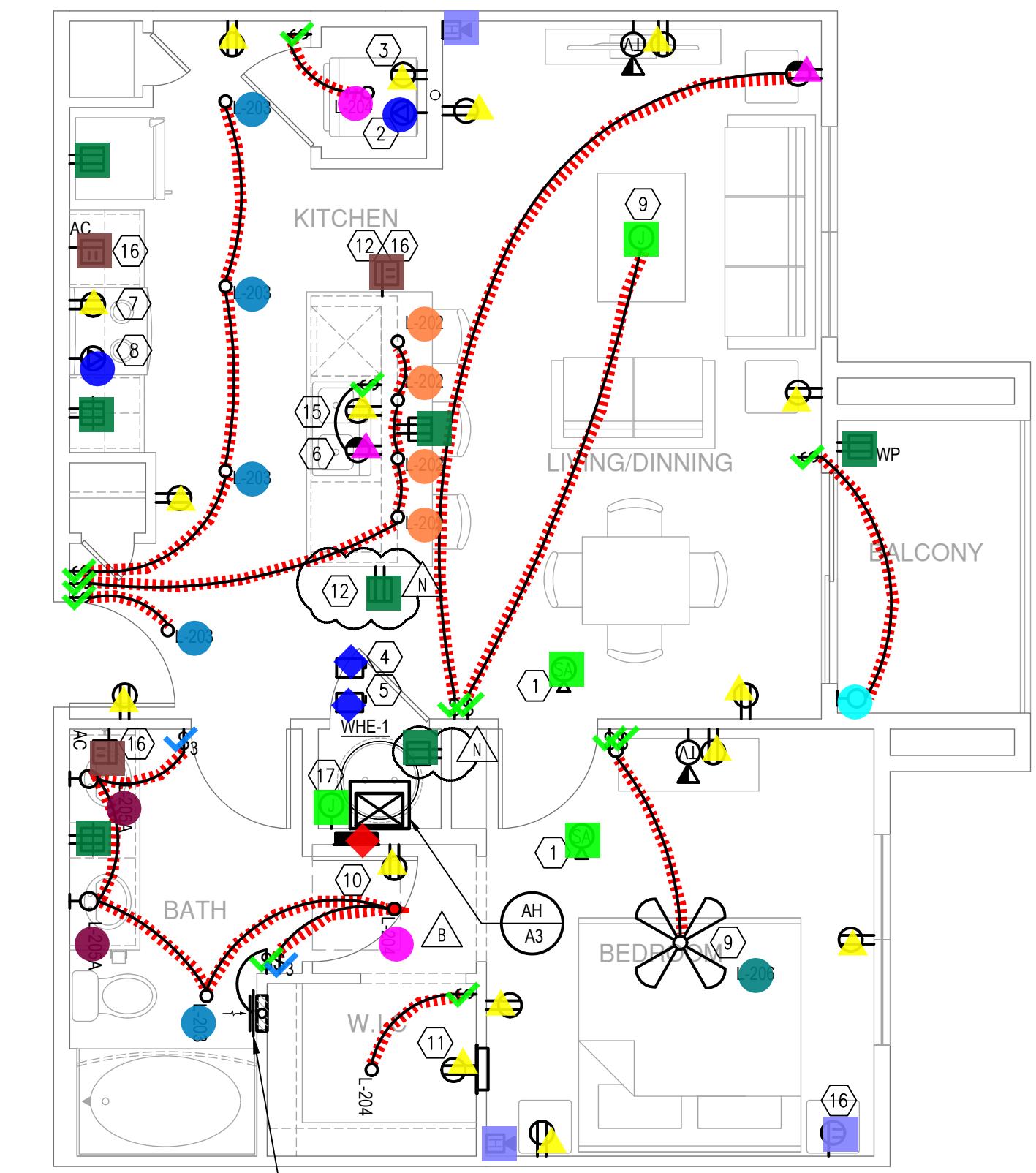
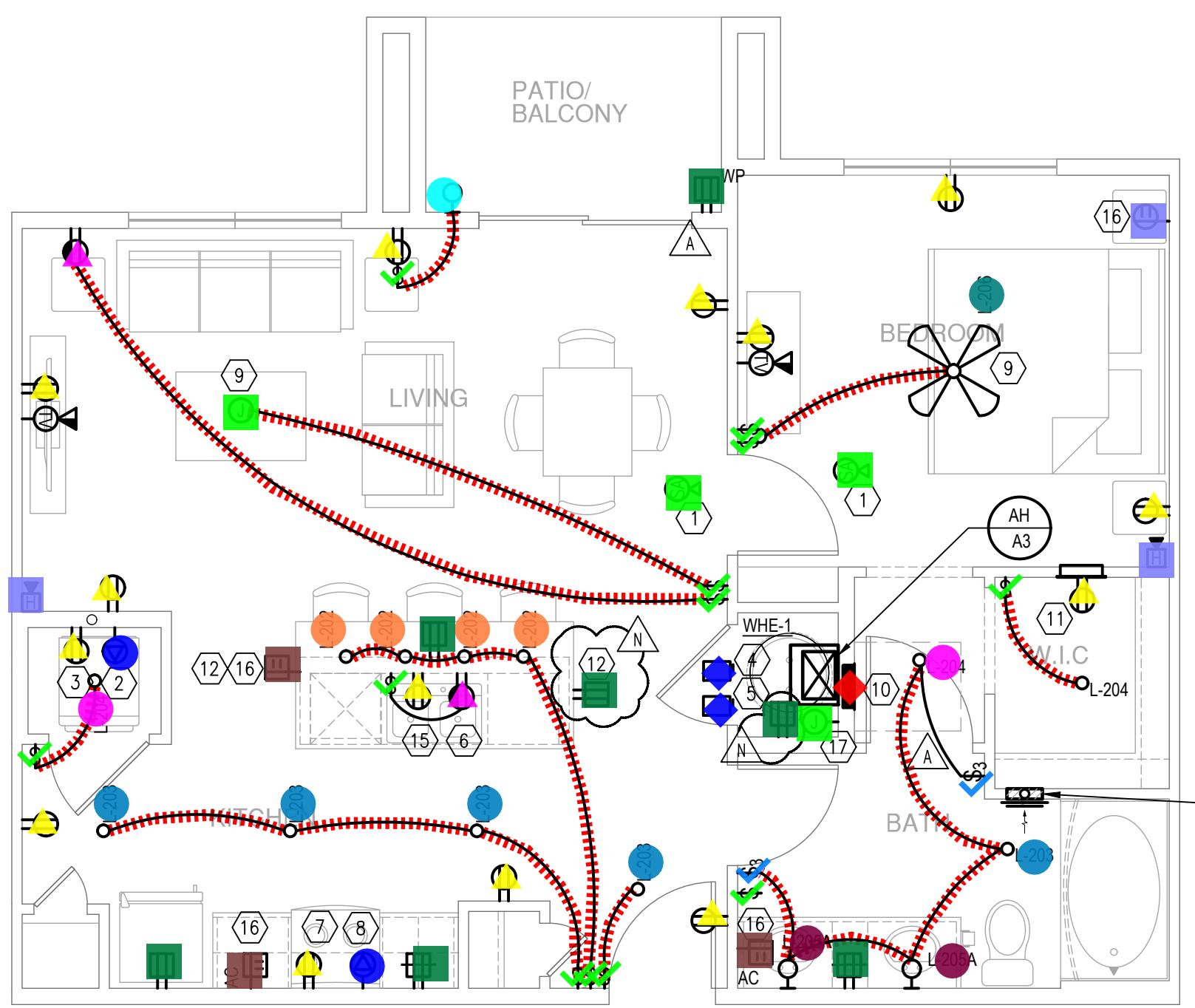
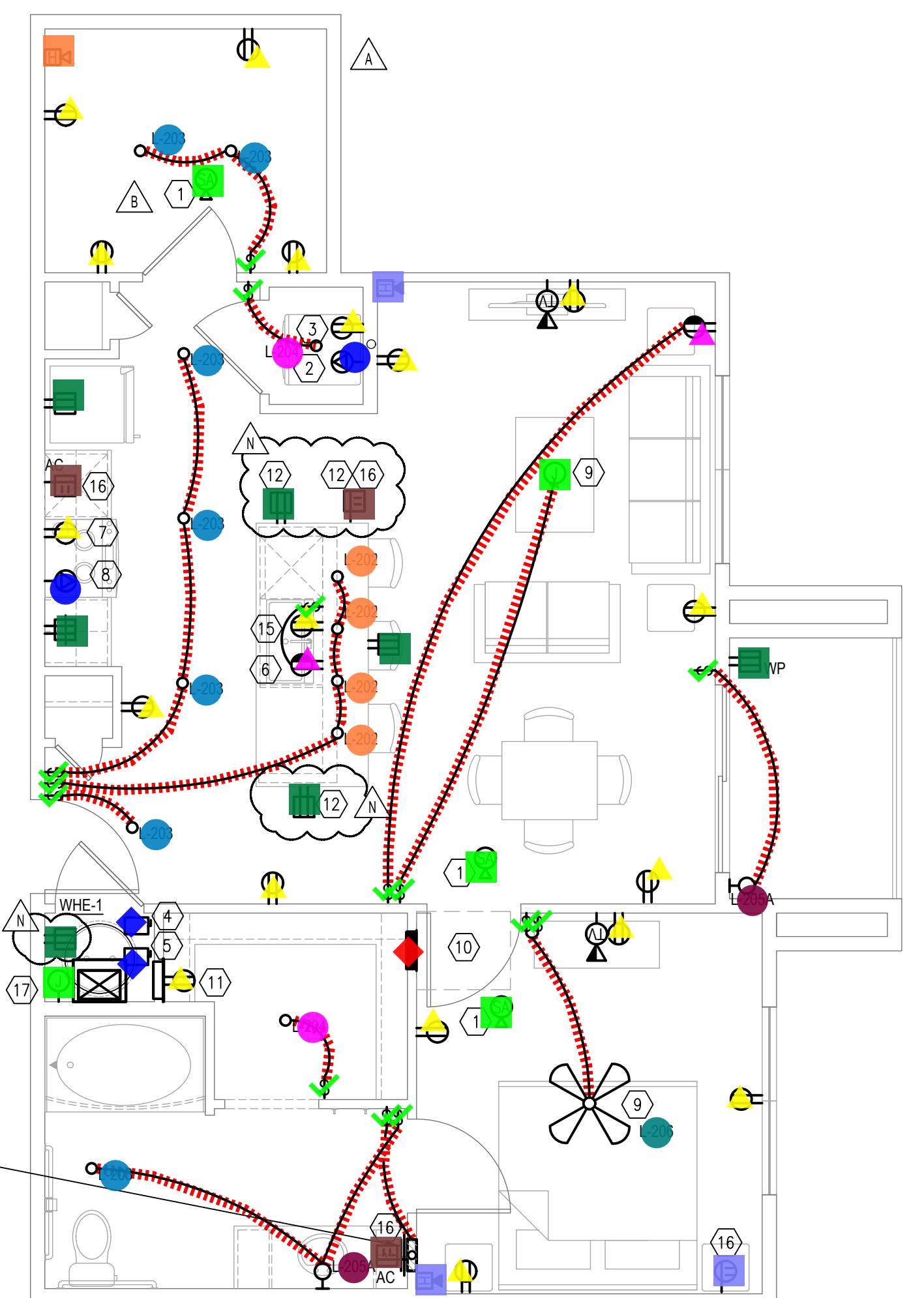
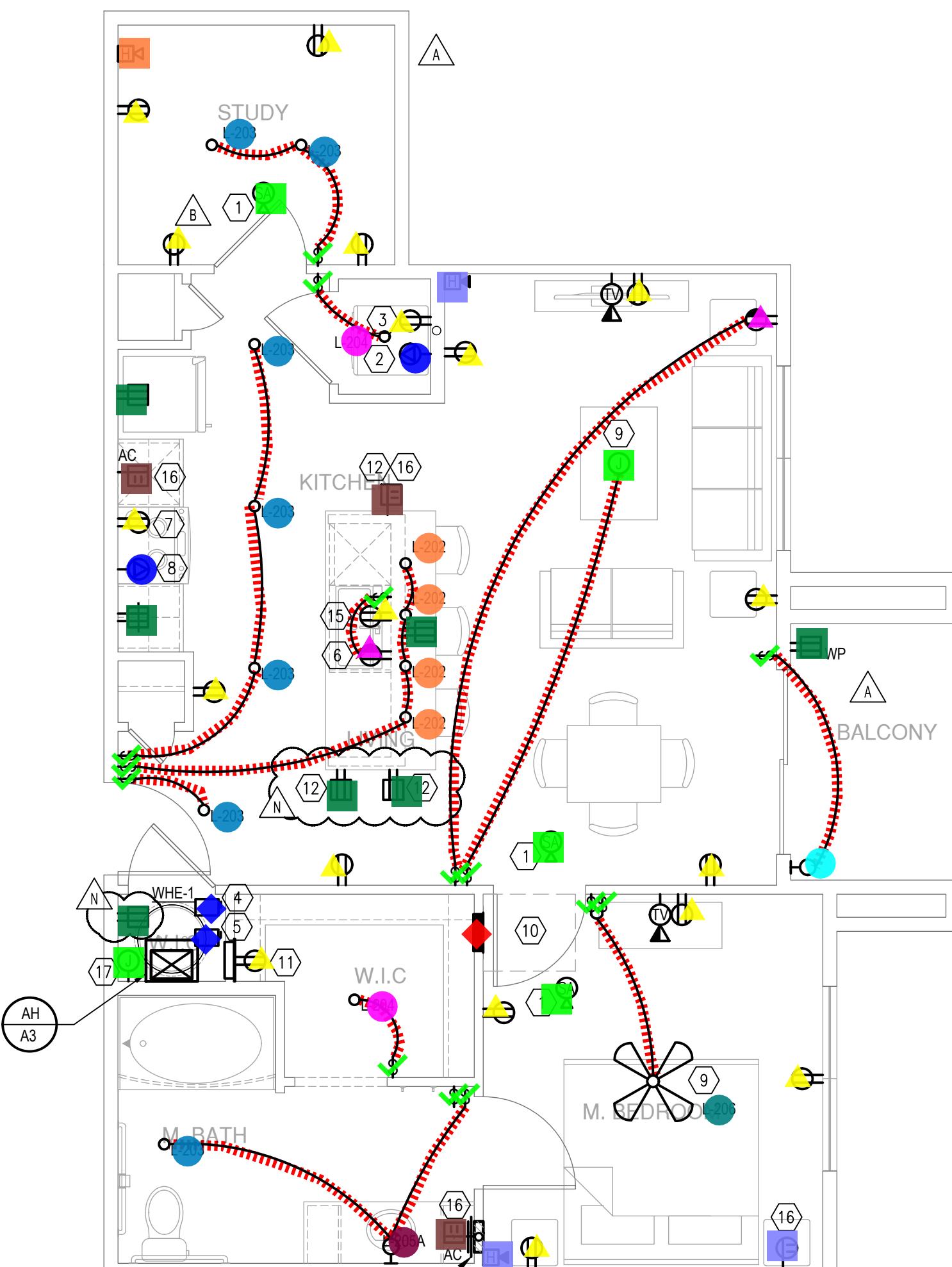
ISSUED FOR CONSTRUCTION

Legend

Description		Quantity	Unit
Audible Smoke Alarm W/ Battery		10	Count
Conduits		421.04	ft
Disconnect Switch		8	Count
Duplex GF Protected Receptacle (2) DC USB Charging Ports		12	Count
Duplex Protected Receptacle (2) DC USB Charging Ports		4	Count
Duplex Receptacle		66	Count
Fire Alarm Horn/Speaker		2	Count
Fire Alarm Horn/Speaker W/ Visual Device		8	Count
GFCI Duplex Receptacle		28	Count
J - Junction Box		8	Count
L-202 - one Light (1) 13W GU24 Bulb		16	Count
L-203 - One Light (1) 15W LED Lamp		24	Count
L-204 - Two Light (2) 13W GU24 Lamp		8	Count
L-205A - 3 Light Vanity Fixture		7	Count
L-206 - One Light		4	Count
Light Fixture		3	Count
Panel Board		4	Count
Single Pole Single Throw Switch		52	Count
Special Purpose Receptacle		8	Count
Split Wired Duplex Receptacle		8	Count
Three Way Switch		4	Count

## GENERAL

G-1 REFER TO NOTES AS APPLICABLE

UPDATED LIG  
LATEST UNITSHEET TITLE  
UNIT PLAN

SHEET NUMBER

E3.02

ISSUED FOR CONSTRUCTION

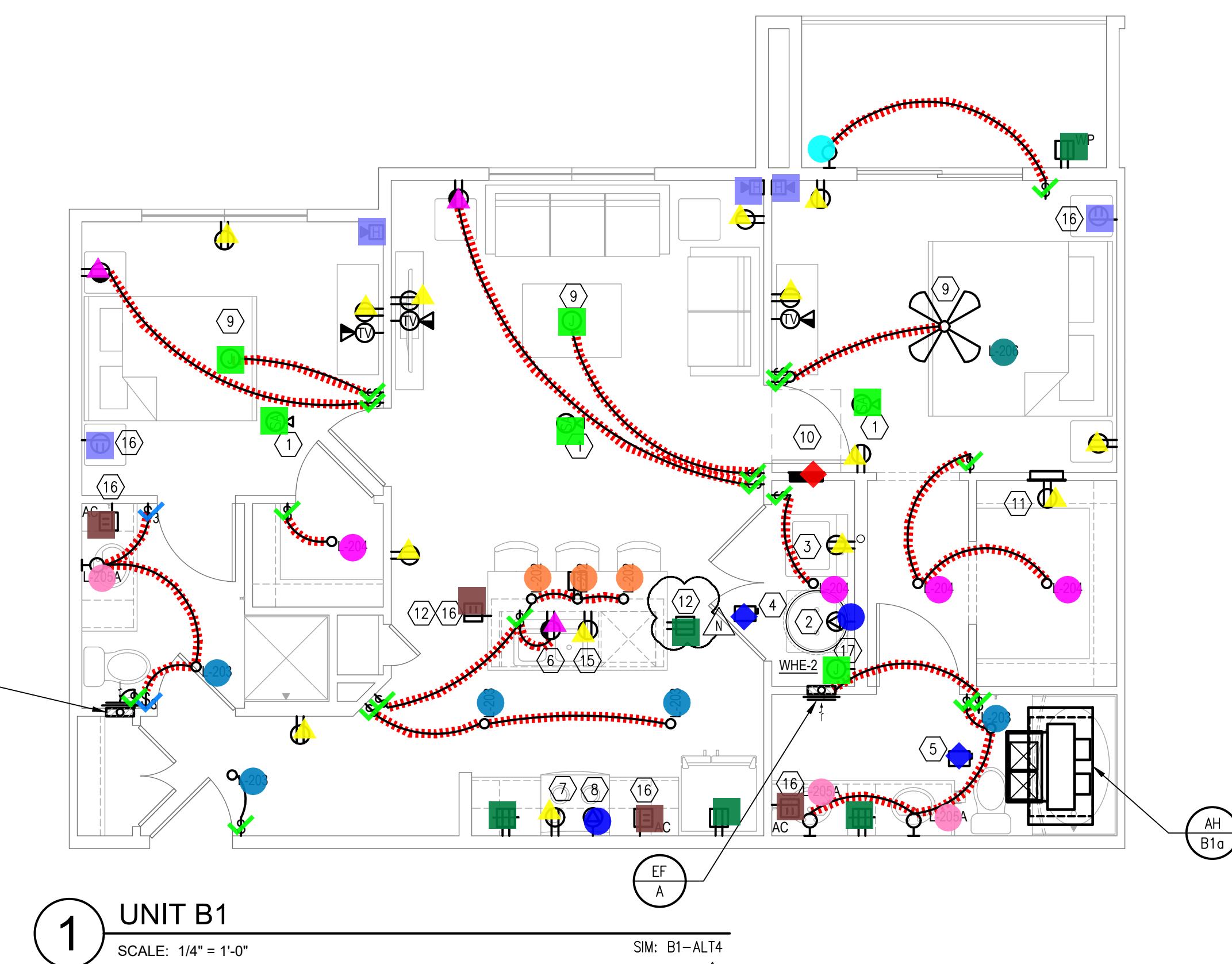
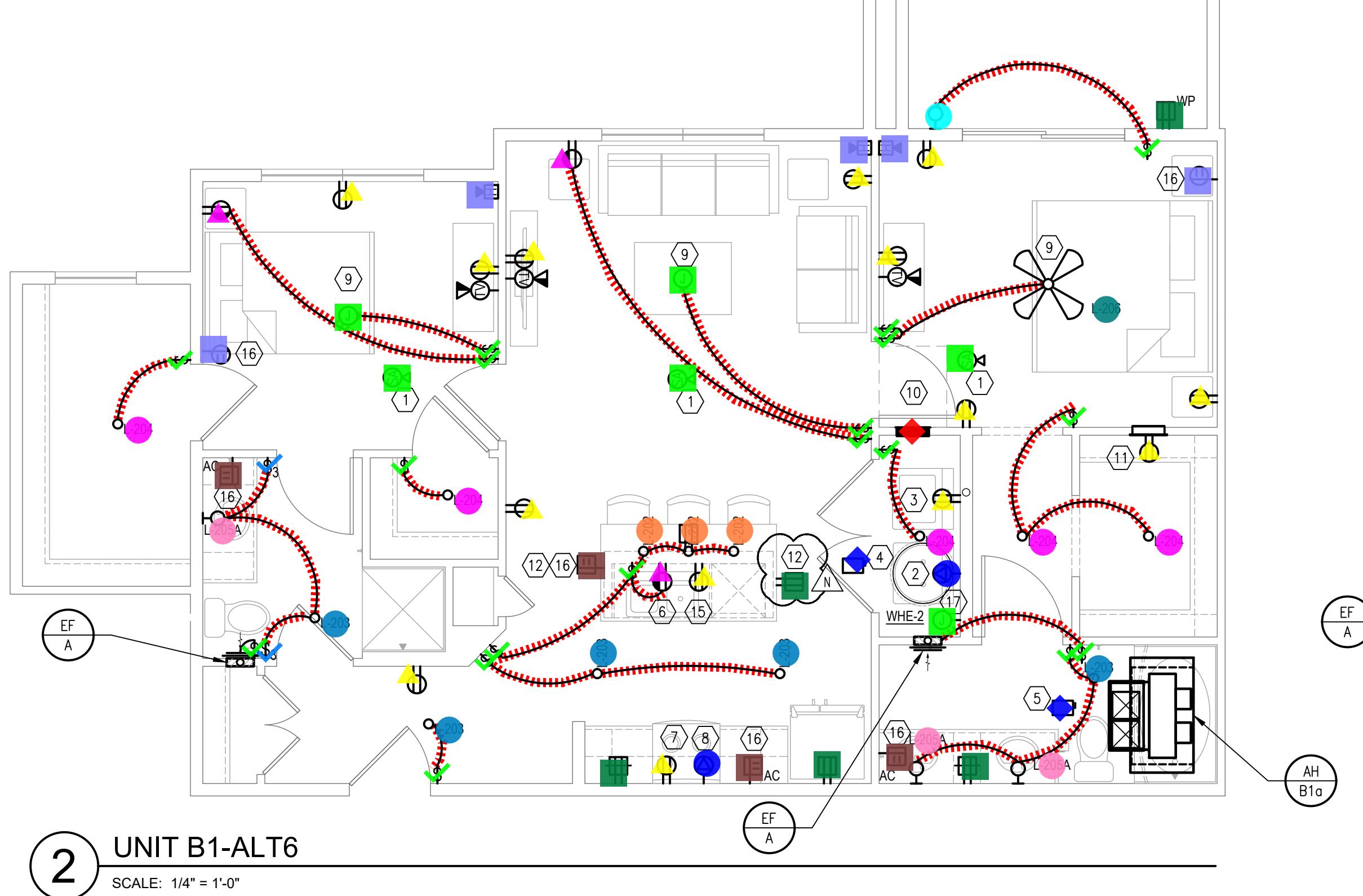
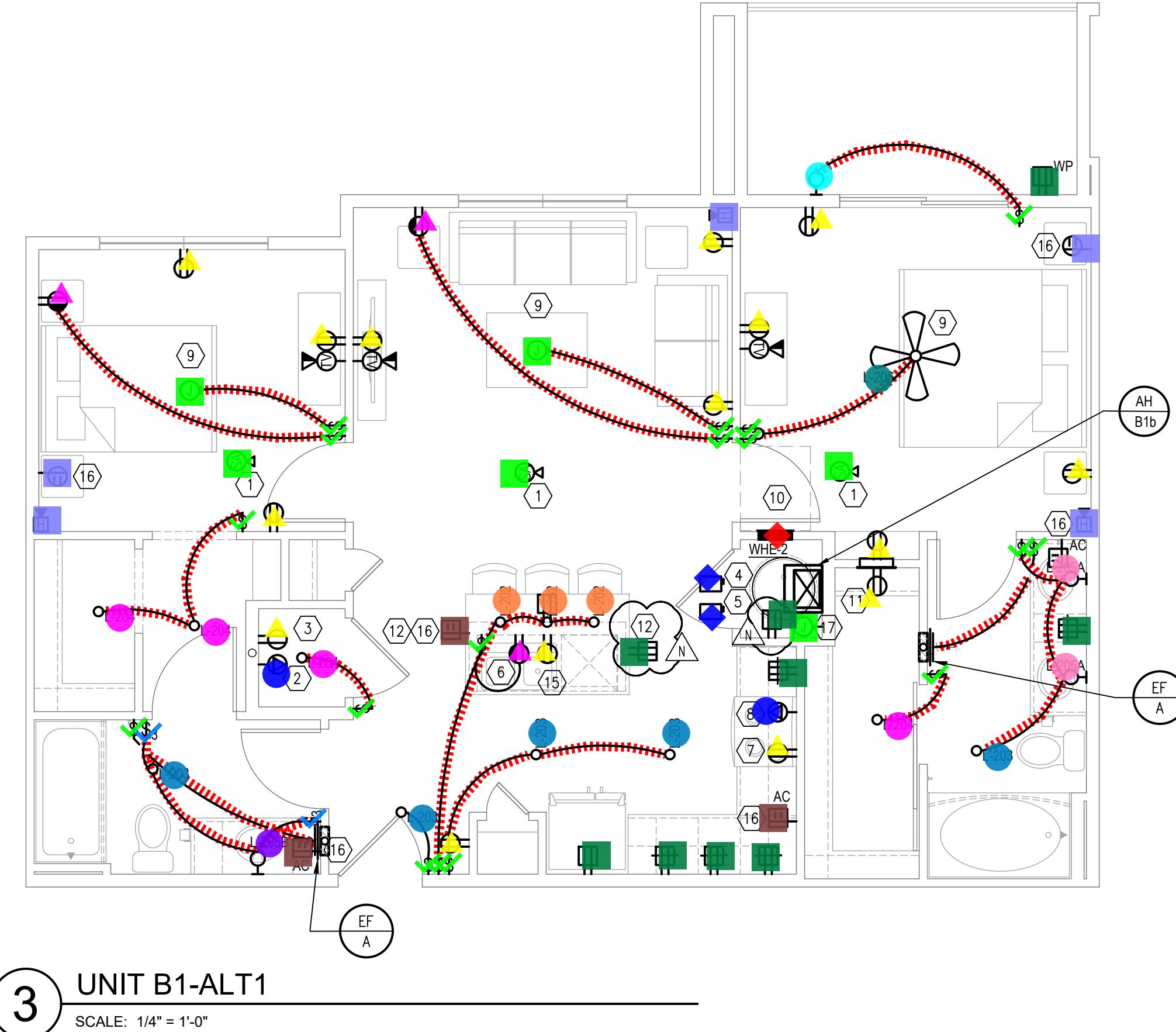
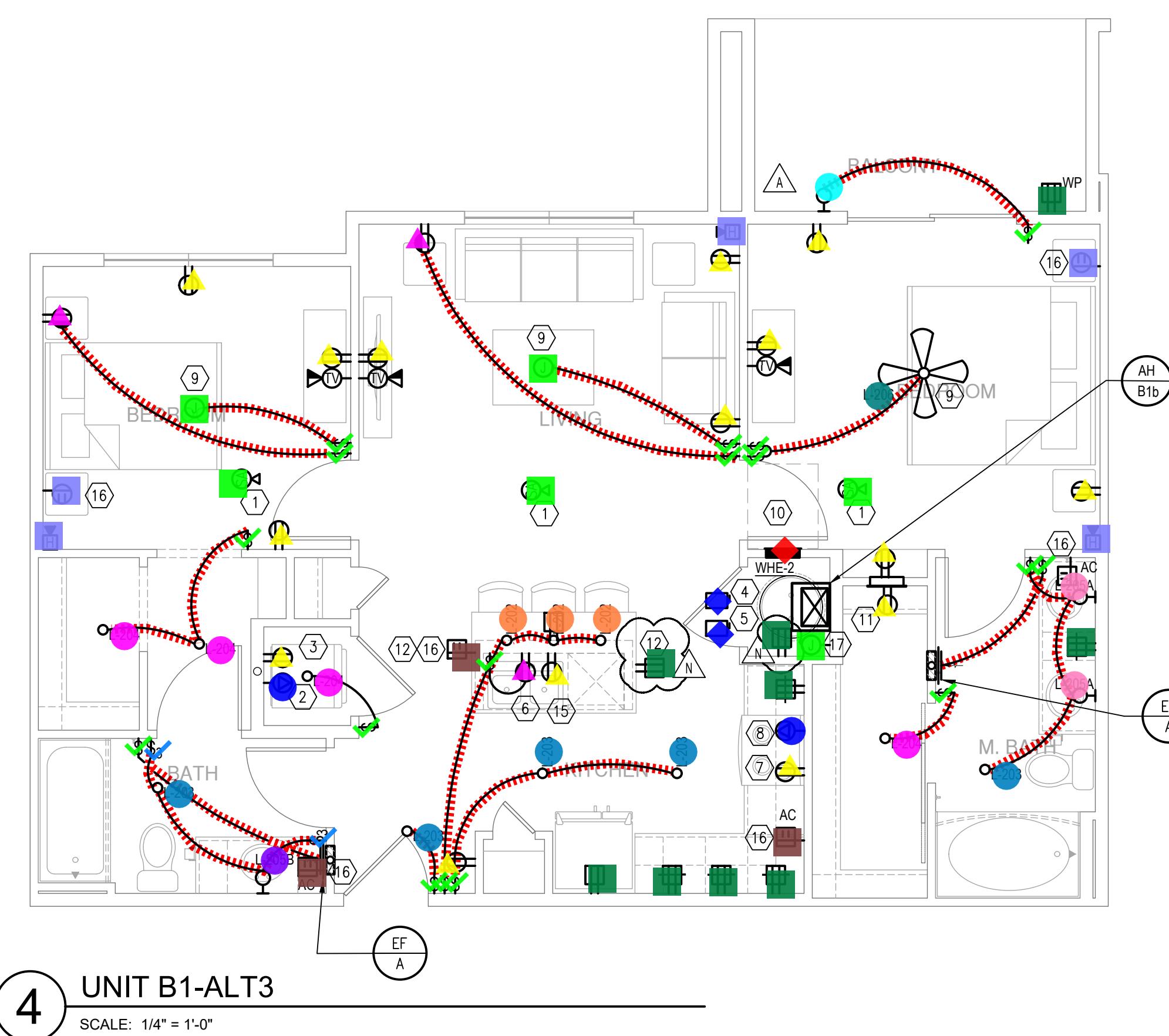
Legend

Description	Quantity	Unit
Audible Smoke Alarm W/ Battery	12	Count
Conduits	471.46	ft
Disconnect Switch	8	Count
Duplex GF Protected Receptacle (2) DC USB Charging Ports	14	Count
Duplex Protected Receptacle (2) DC USB Charging Ports	8	Count
Duplex Receptacle	58	Count
Fire Alarm Horn/Speaker W/ Visual Device	12	Count
GFCI Duplex Receptacle	28	Count
J - Junction Box	12	Count
L-202 - one Light (1) 13W GU24 Bulb	12	Count
L-203 - One Light (1) 15W LED Lamp	20	Count
L-204 - Two Light (2) 13W GU24 Lamp	17	Count
L-205A - 3 Light Vanity Fixture	10	Count
L-205B - 4 Light Vanity Fixture	2	Count
L-206 - One Light	4	Count
Light Fixture	4	Count
Panel Board	4	Count
Single Pole Single Throw Switch	69	Count
Special Purpose Receptacle	8	Count
Split Wired Duplex Receptacle	12	Count
Three Way Switch	8	Count

## GENERAL

G-1 REFER TO NOTES AS

UPDATED LIG LATEST UNIT

SHEET TITLE  
UNIT PLAN

SHEET NUMBER

E3.03

ISSUED FOR CONSTRUCTION

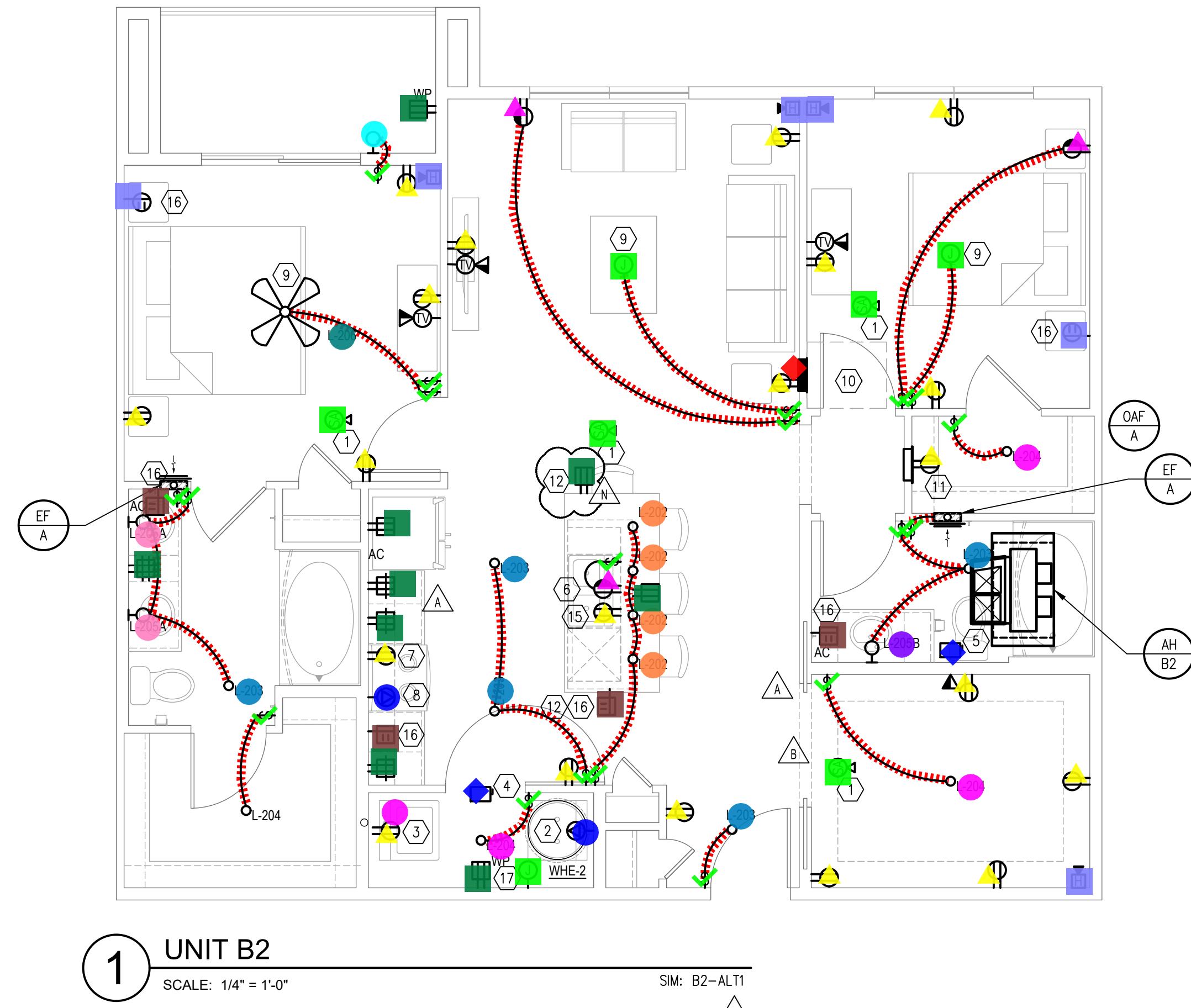
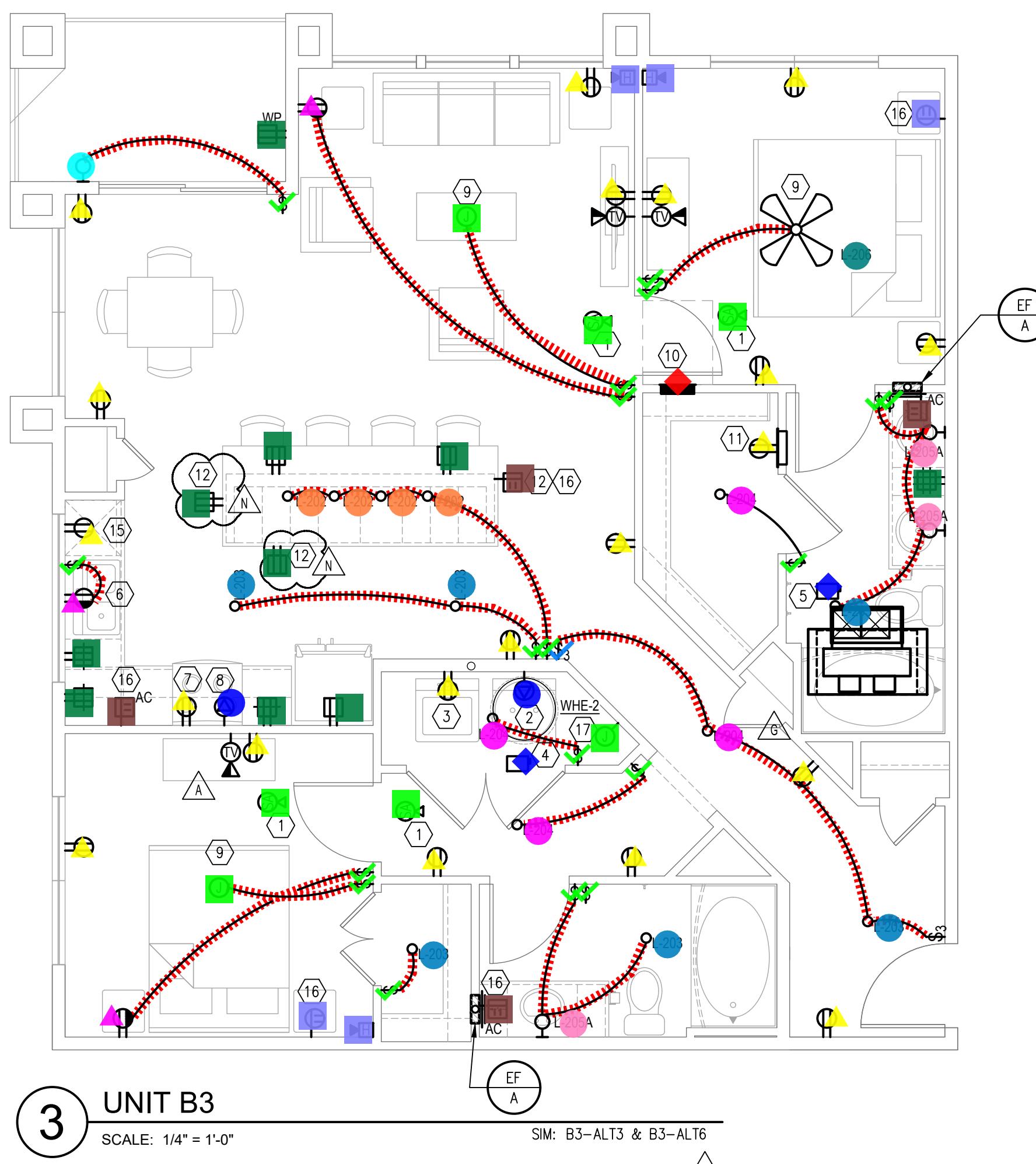
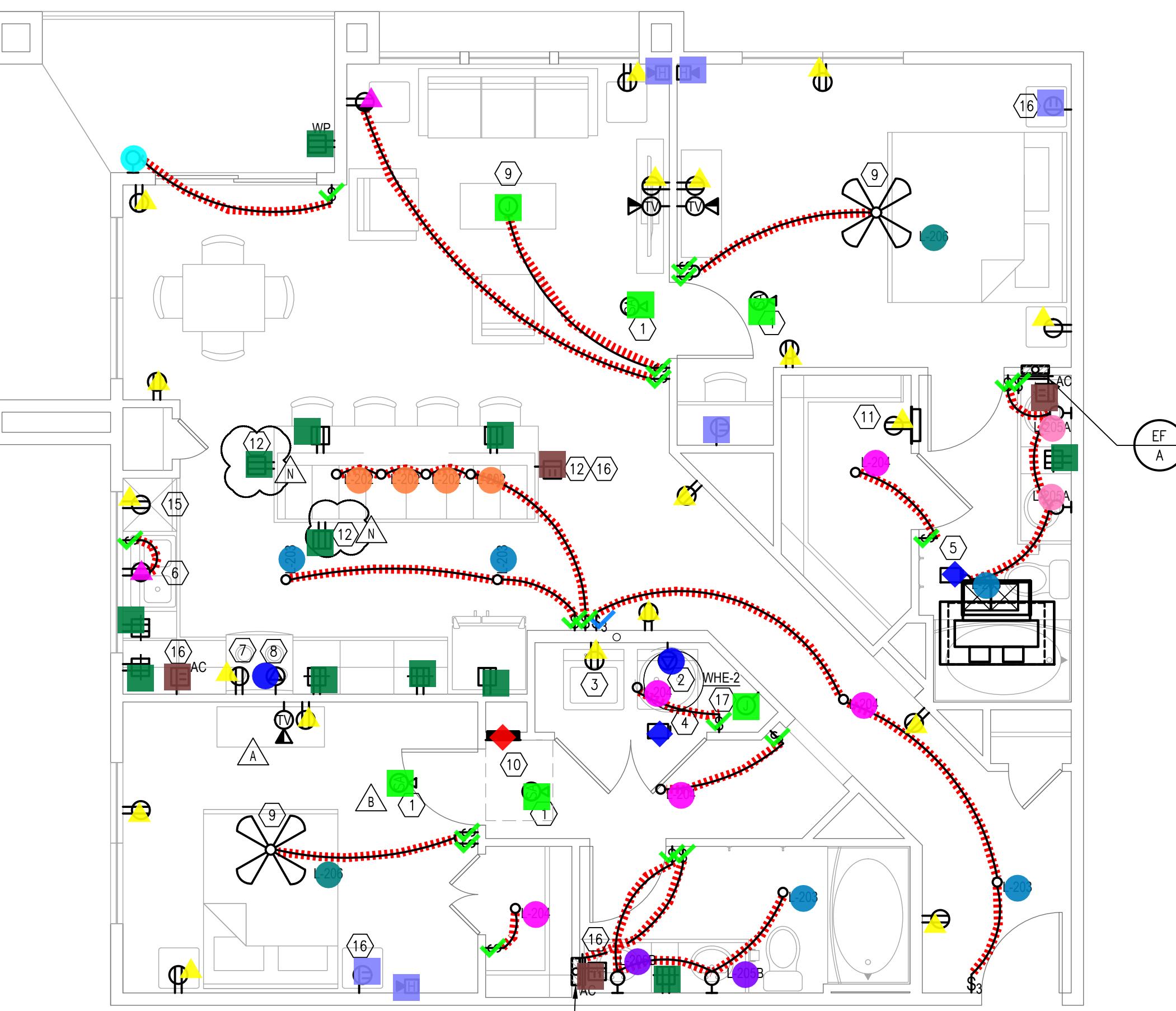
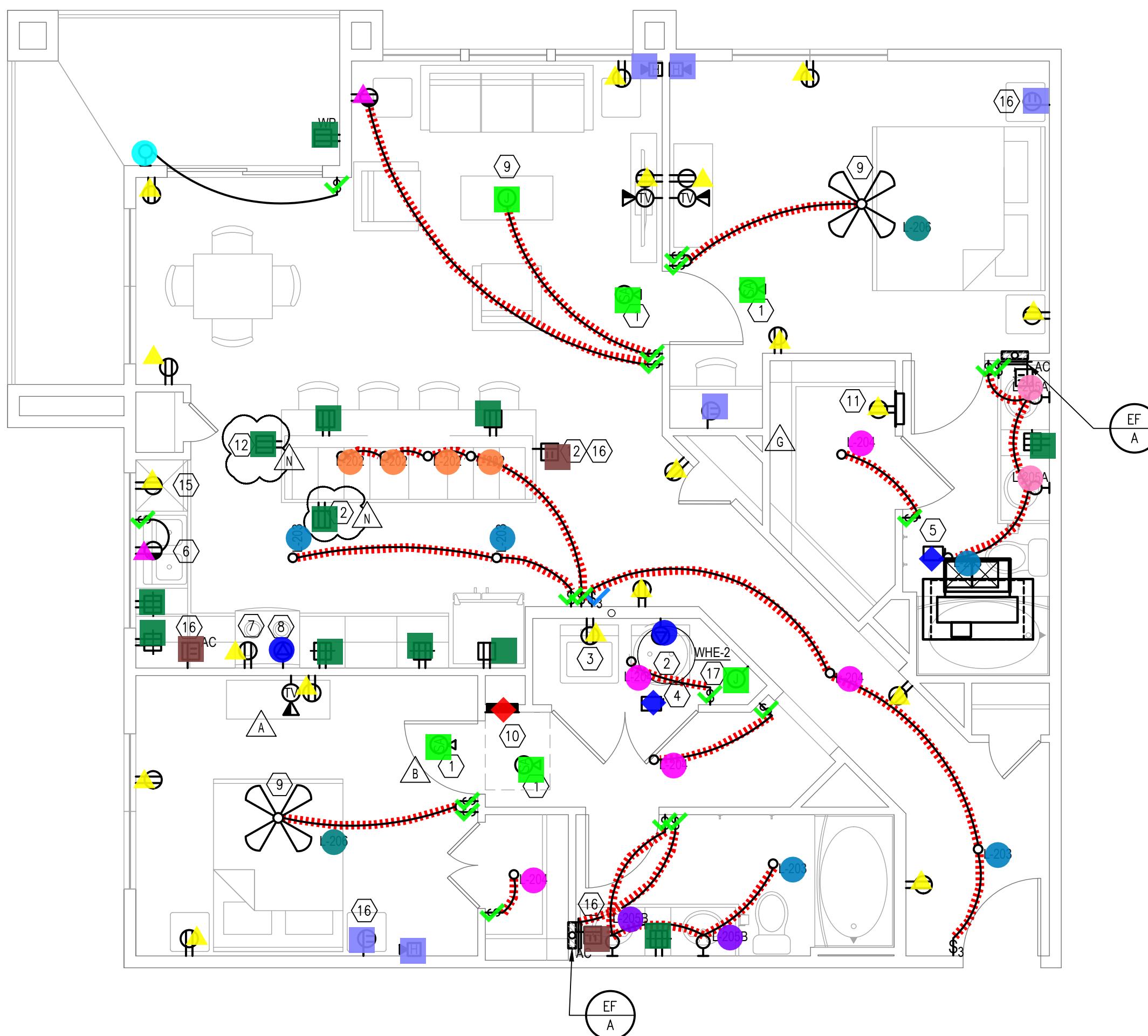
## Legend

Description		Quantity	Unit
Audible Smoke Alarm W/ Battery		16	Count
Conduits		483.52	ft
Disconnect Switch		8	Count
Duplex GF Protected Receptacle (2) DC USB Charging Ports		15	Count
Duplex Protected Receptacle (2) DC USB Charging Ports		10	Count
Duplex Receptacle		78	Count
Fire Alarm Horn/Speaker W/ Visual Device		13	Count
GFCI Duplex Receptacle		43	Count
J - Junction Box		10	Count
L-202 - one Light (1) 13W GU24 Bulb		16	Count
L-203 - One Light (1) 15W LED Lamp		21	Count
L-204 - Two Light (2) 13W GU24 Lamp		18	Count
L-205A - 3 Light Vanity Fixture		9	Count
L-205B - 4 Light Vanity Fixture		5	Count
L-206 - One Light		6	Count
Light Fixture		4	Count
Panel Board		4	Count
Single Pole Single Throw Switch		73	Count
Special Purpose Receptacle		8	Count
Split Wired Duplex Receptacle		10	Count
Three Way Switch		3	Count

## GENERAL

G-1 REFER TO NOTES AS

UPDATED LIG LATEST UNIT

SHEET TITLE  
UNIT PLAN

SHEET NUMBER

E3.04

ISSUED FOR CONSTRUCTION

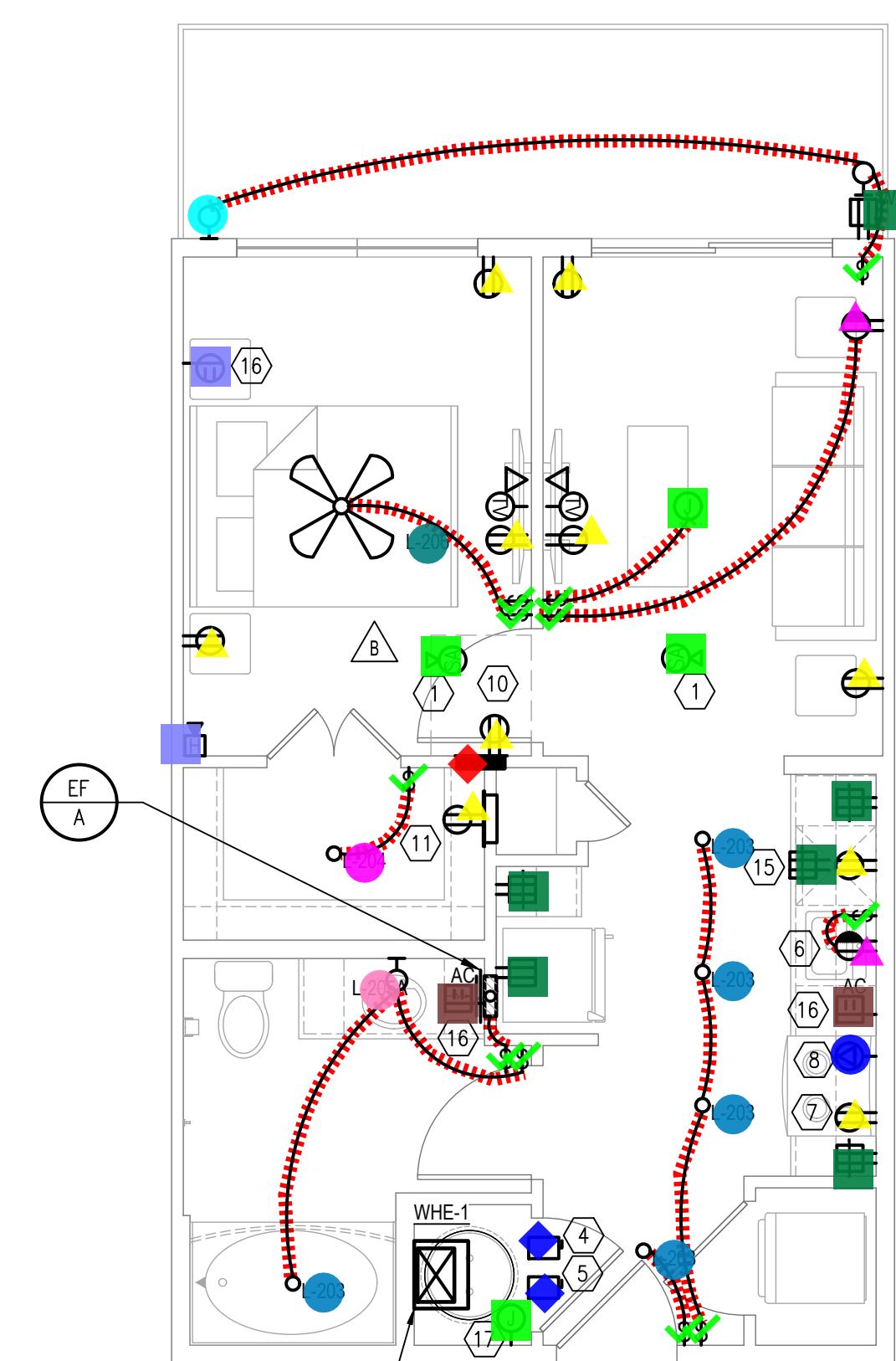
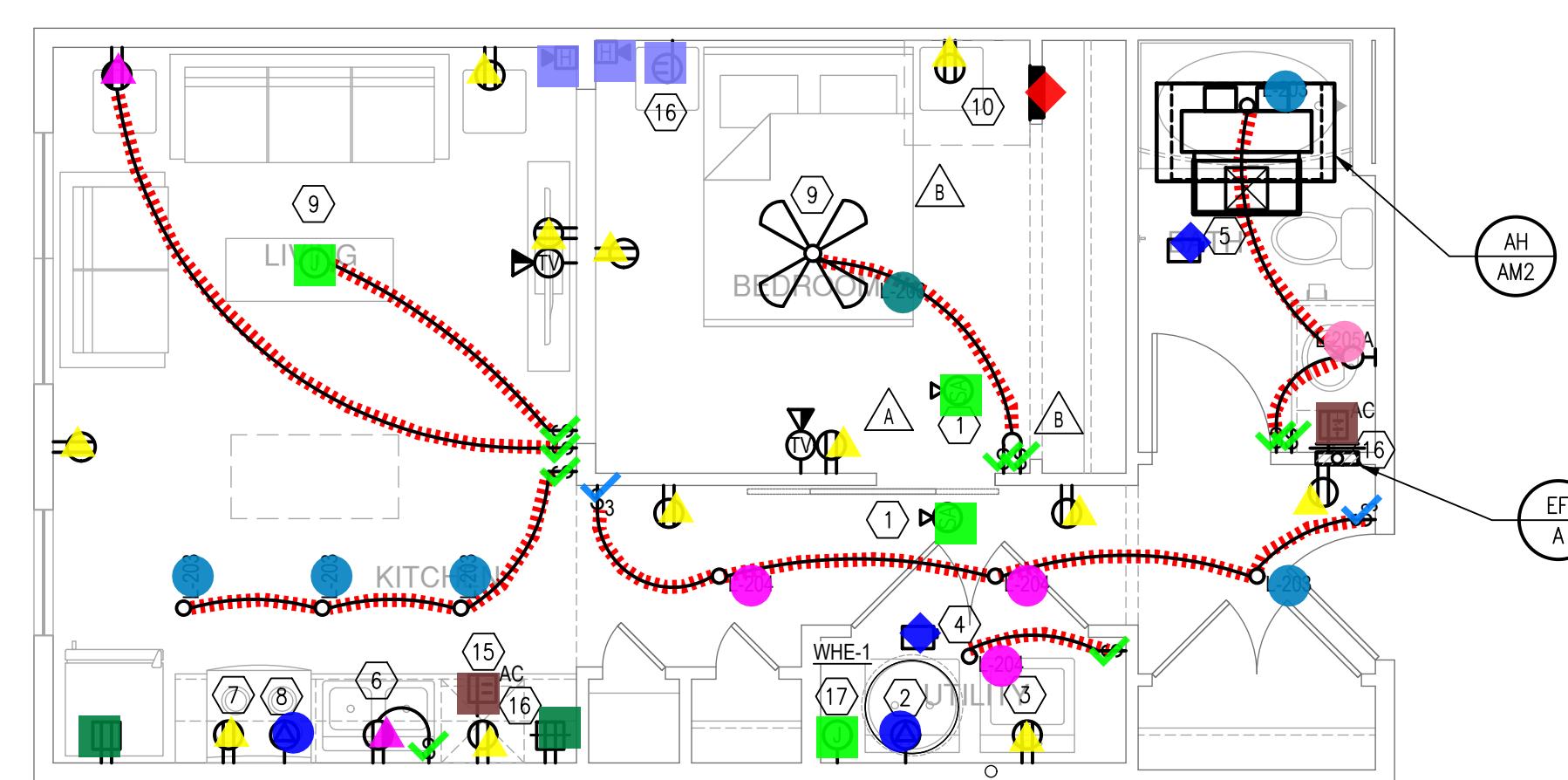
Legend

	Description	Quantity	Unit
■	Audible Smoke Alarm W/ Battery	10	Count
—	Conduits	324.13	ft
◆	Disconnect Switch	8	Count
■	Duplex GF Protected Receptacle (2) DC USB Charging Ports	11	Count
■	Duplex Protected Receptacle (2) DC USB Charging Ports	5	Count
▲	Duplex Receptacle	52	Count
■	Fire Alarm Horn/Speaker W/ Visual Device	7	Count
■	GFCI Duplex Receptacle	24	Count
—	J - Junction Box	9	Count
●	L-202 - one Light (1) 13W GU24 Bulb	4	Count
●	L-203 - One Light (1) 15W LED Lamp	20	Count
●	L-204 - Two Light (2) 13W GU24 Lamp	8	Count
●	L-205A - 3 Light Vanity Fixture	3	Count
●	L-205B - 4 Light Vanity Fixture	2	Count
●	L-206 - One Light	4	Count
●	Light Fixture	3	Count
◆	Panel Board	4	Count
✓	Single Pole Single Throw Switch	47	Count
●	Special Purpose Receptacle	6	Count
▲	Split Wired Duplex Receptacle	9	Count
✓	Three Way Switch	3	Count

## GENERAL

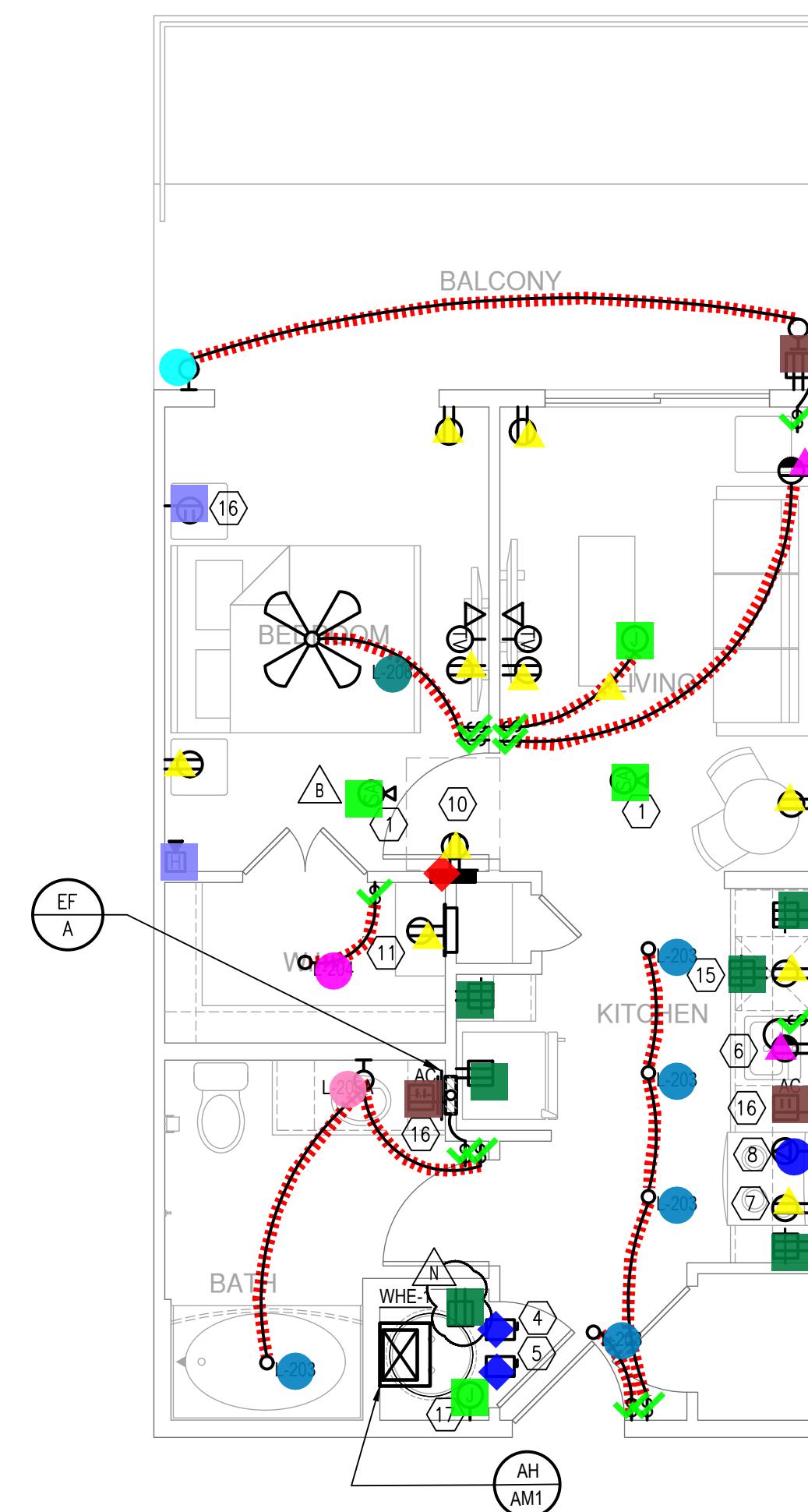
G-1 REFER TO NOTES AS APPLICABLE

UPDATED LIG LATEST UNIT

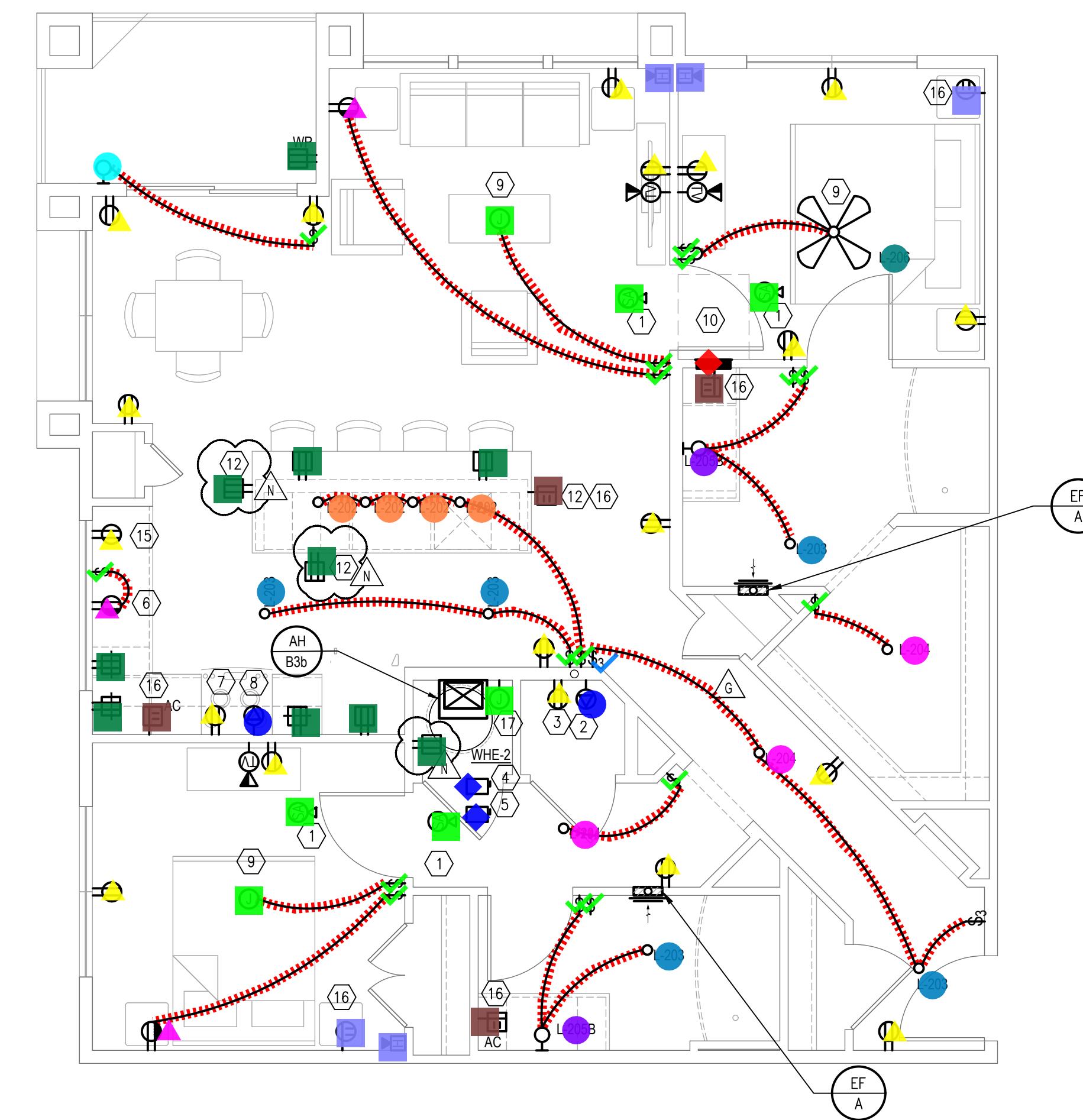


4 UNIT A-M2  
SCALE: 1/4" = 1'-0"  
SIM: A-M2-ALT1

2 UNIT A-M1  
SCALE: 1/4" = 1'-0"



3 UNIT A-M1-ALT1  
SCALE: 1/4" = 1'-0"



1 UNIT B3 ANSI TYPE A  
SCALE: 1/4" = 1'-0"  
SIM: B3 ANSI TYPE A-ALT1

SHEET TITLE  
UNIT PLAN

SHEET NUMBER

E3.05

ISSUED FOR CONSTRUCTION

## Legend

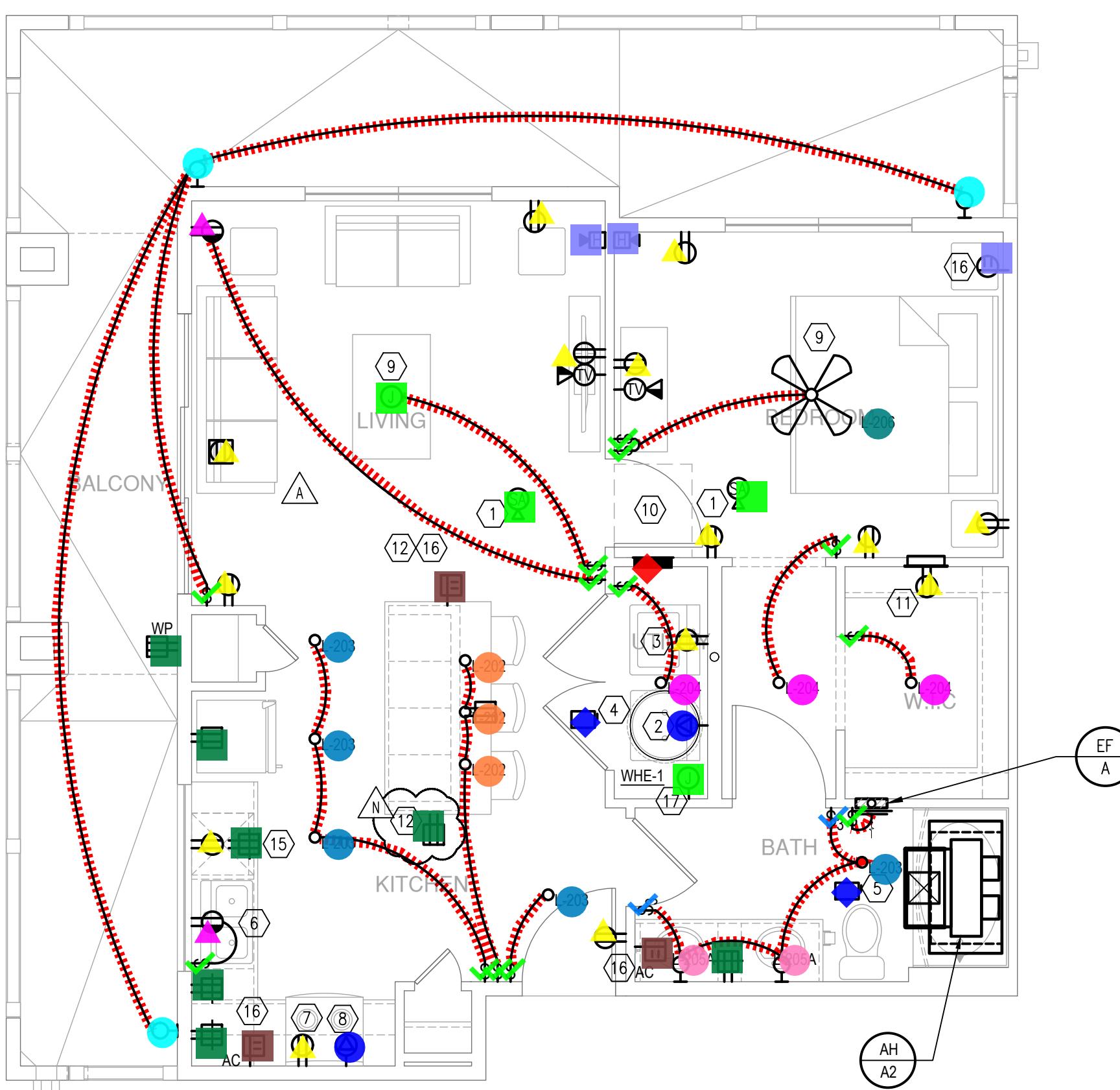
Description		Quantity	Unit
Audible Smoke Alarm W/ Battery		12	Count
Conduits		436.58	ft
Disconnect Switch		8	Count
Duplex GF Protected Receptacle (2) DC USB Charging Ports		12	Count
Duplex Protected Receptacle (2) DC USB Charging Ports		5	Count
Duplex Receptacle		62	Count
Fire Alarm Horn/Speaker		1	Count
Fire Alarm Horn/Speaker W/ Visual Device		8	Count
GFCI Duplex Receptacle		32	Count
J - Junction Box		9	Count
L-202 - one Light (1) 13W GU24 Bulb		11	Count
L-203 - One Light (1) 15W LED Lamp		22	Count
L-204 - Two Light (2) 13W GU24 Lamp		12	Count
L-205A - 3 Light Vanity Fixture		7	Count
L-205B - 4 Light Vanity Fixture		2	Count
L-206 - One Light		4	Count
Light Fixture		5	Count
Panel Board		4	Count
Single Pole Single Throw Switch		55	Count
Special Purpose Receptacle		7	Count
Split Wired Duplex Receptacle		9	Count
Three Way Switch		4	Count

## GENERAL

G-1 REFER TO SHEET NOTES ASSOCIATE

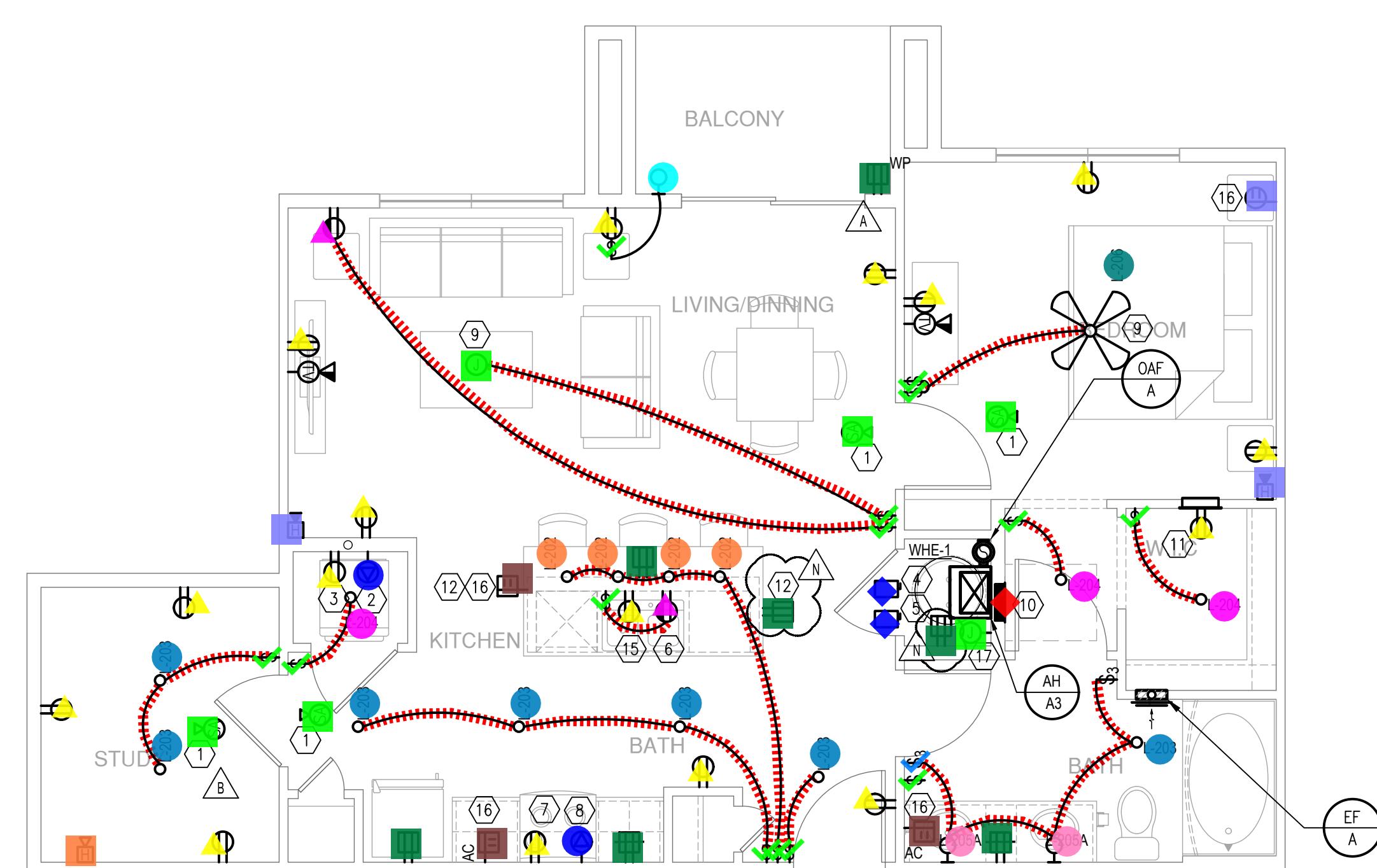
UPDATED LIGHTING LATEST UNIT ID RC

F



3 UNIT A2-ALT3

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

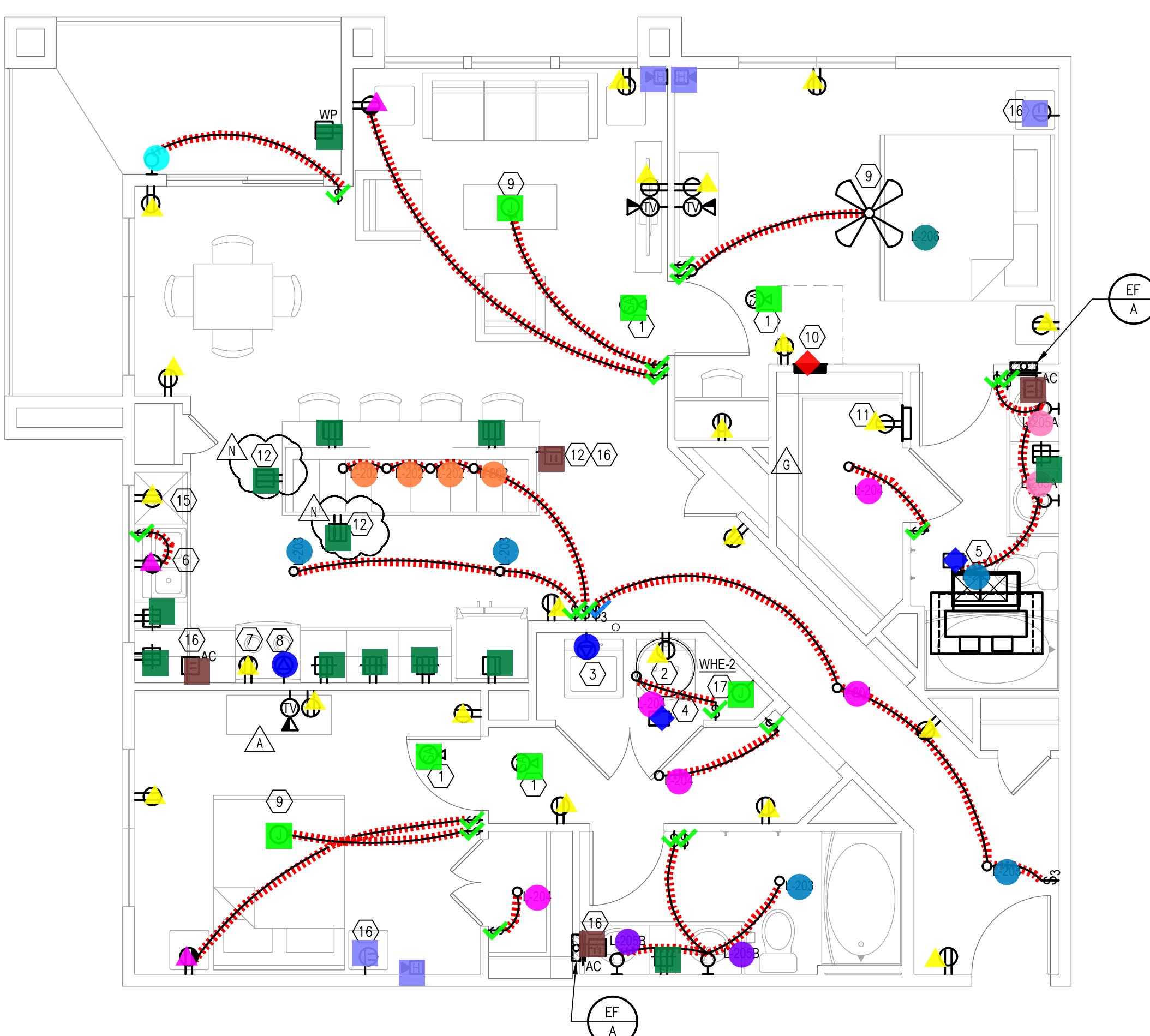


4 UNIT A3-ALT2

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

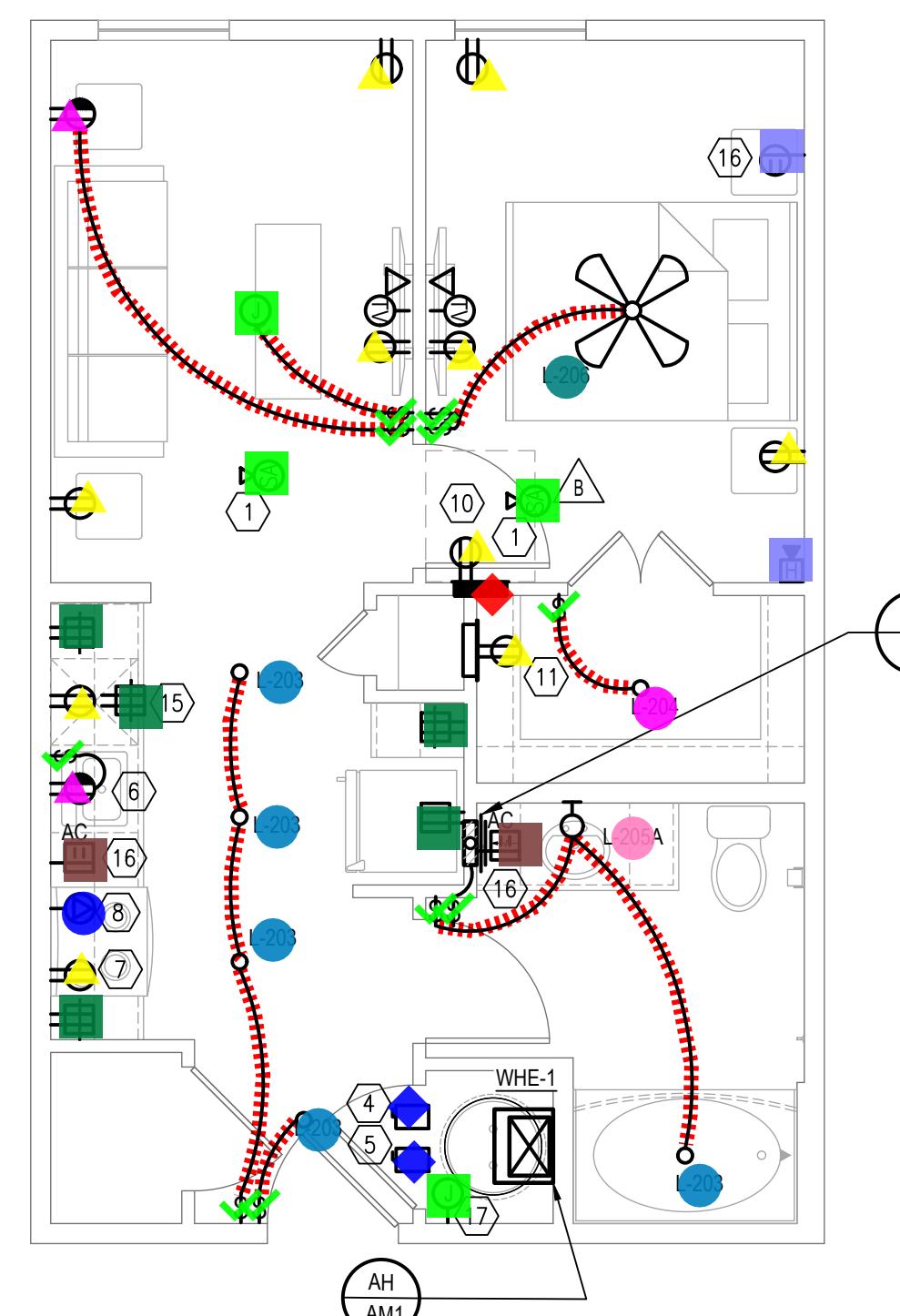
SIM: A3-ALT3

F



2 UNIT B3-ALT1 UNDER ROOF GARDEN

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



1 UNIT A-M3

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

SHEET TITLE  
UNIT PLAN

SHEET NUMBER

E3.06

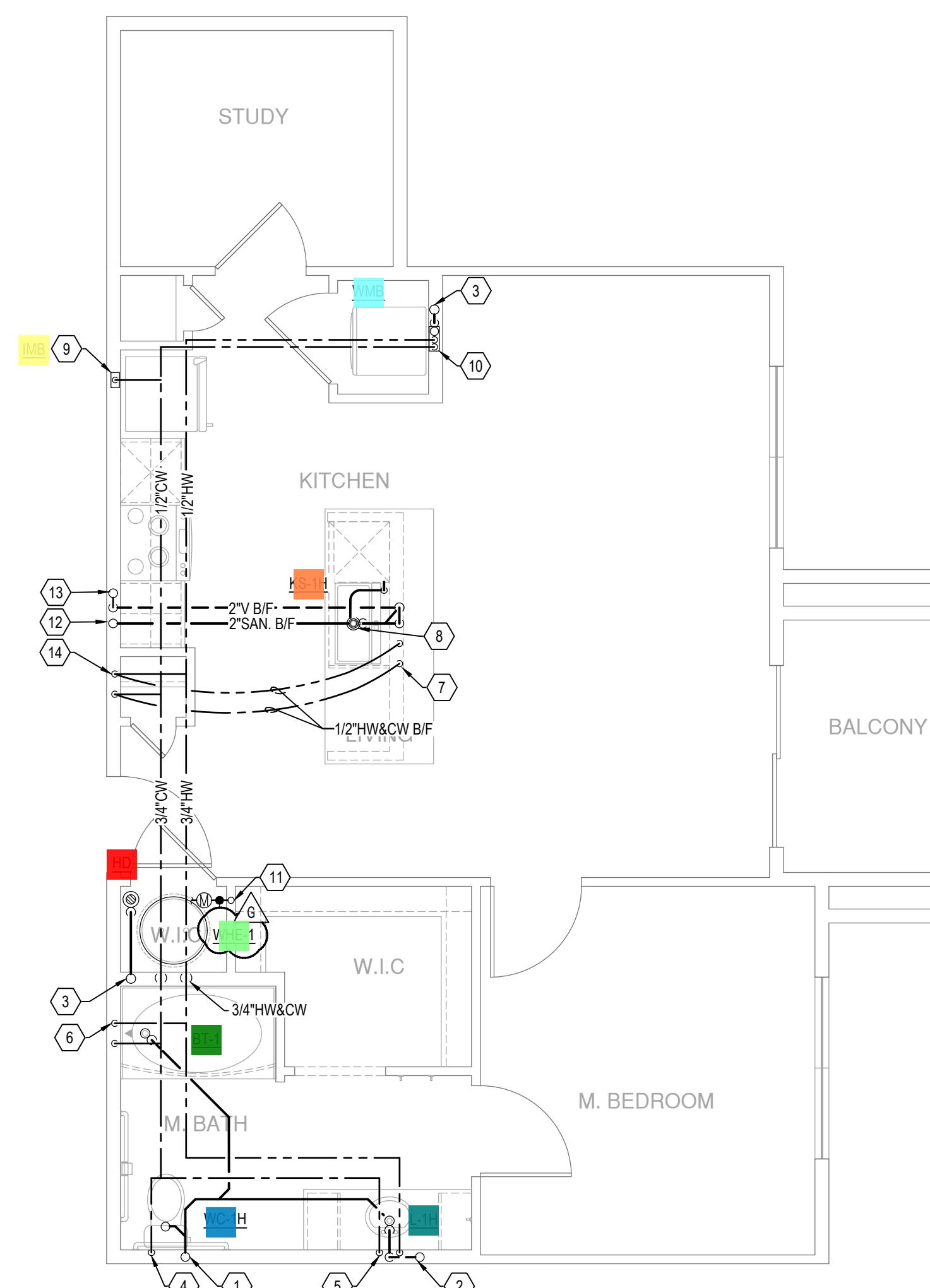
ISSUED FOR CONSTRUCTION

## Legend

	Description	Quantity	Unit
<span style="background-color: green;">■</span>	BT-1 - Bathtub	3	Count
<span style="background-color: green;">■</span>	BT-1H - Bathtub	1	Count
<span style="background-color: red;">■</span>	HD - Hub Drain	4	Count
<span style="background-color: yellow;">■</span>	IMB - Ice Maker Box	4	Count
<span style="background-color: orange;">■</span>	KS-1 - Kitchen Sink	2	Count
<span style="background-color: orange;">■</span>	KS-1H - Kitchen Sink	2	Count
<span style="background-color: pink;">■</span>	L-1 - Lavatory (Residential)	4	Count
<span style="background-color: teal;">■</span>	L-1H - Lavatory (Residential)	2	Count
<span style="background-color: blue;">■</span>	WC-1 - Water Closet (Residential)	2	Count
<span style="background-color: blue;">■</span>	WC-1H - Water Closet (Residential)	2	Count
<span style="background-color: lightgreen;">■</span>	WHE-1 - Electric Storage Water Heater	4	Count
<span style="background-color: cyan;">■</span>	WMB - Washing Machine Box	4	Count

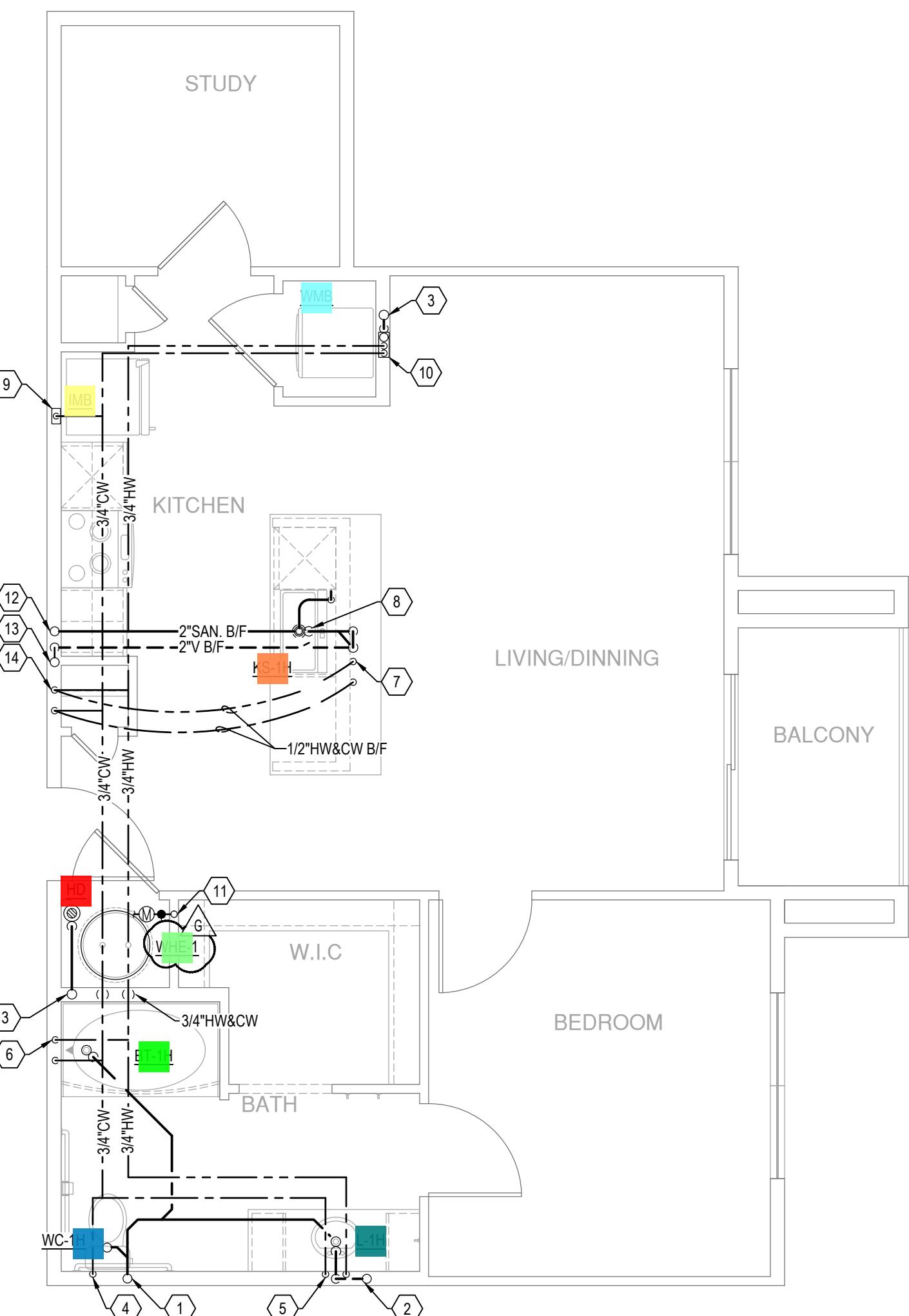
## KEY

- (1) 3"
- (2) 3"
- (3) 3"
- (4) 12"
- (5) 12"
- (6) 12"
- (7) 12"
- (8) DIF IN
- (9) 12"
- (10) 12"
- (11) DC ME
- (12) 2"
- (13) 2" SANITARY VENT STACK
- (14) 1/2" HW&CW DOWN TO BELOW FLOOR TO SERVE ISLAND SINK



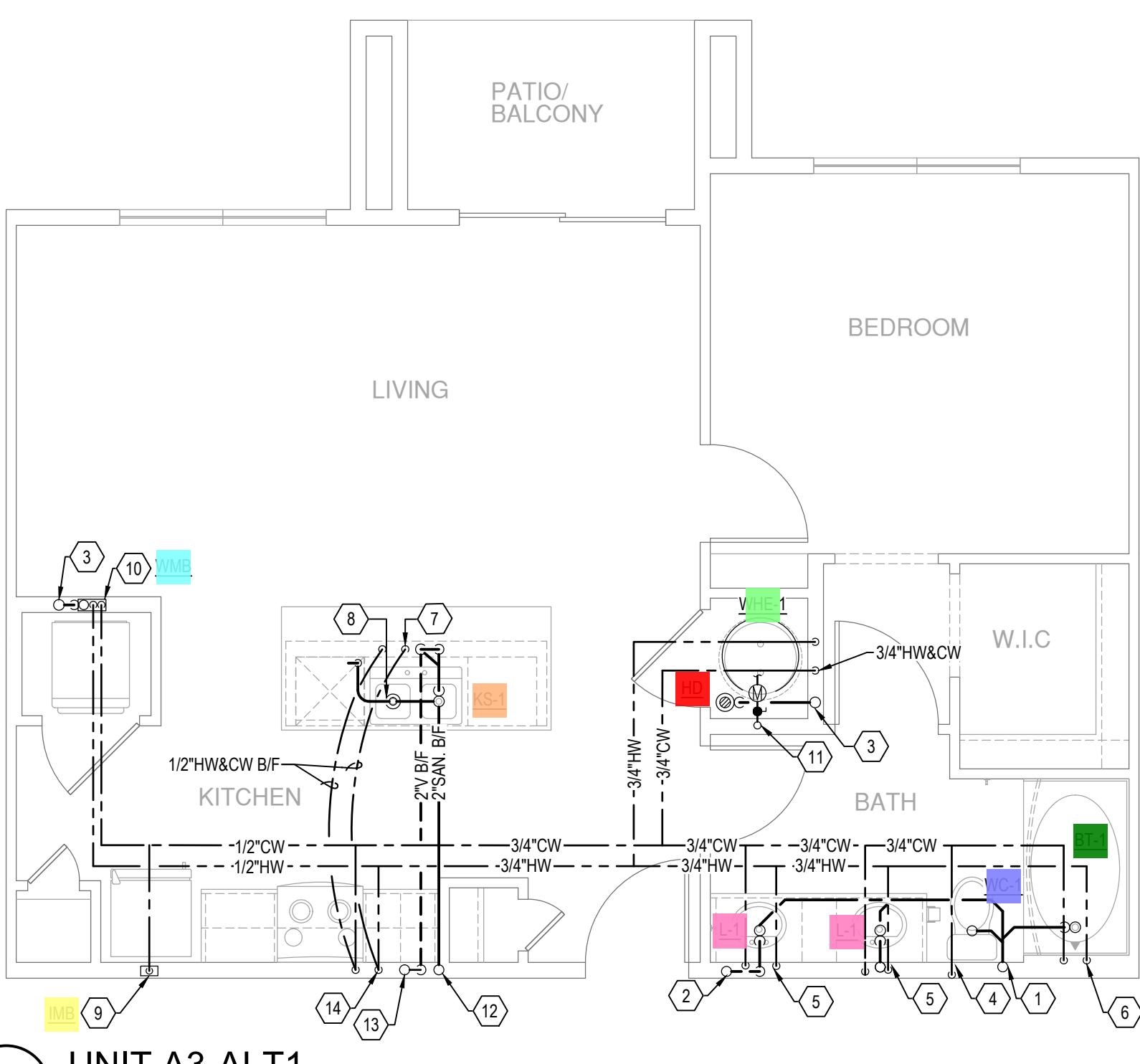
4 UNIT A3 ANSI TYPE A ALT 1

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



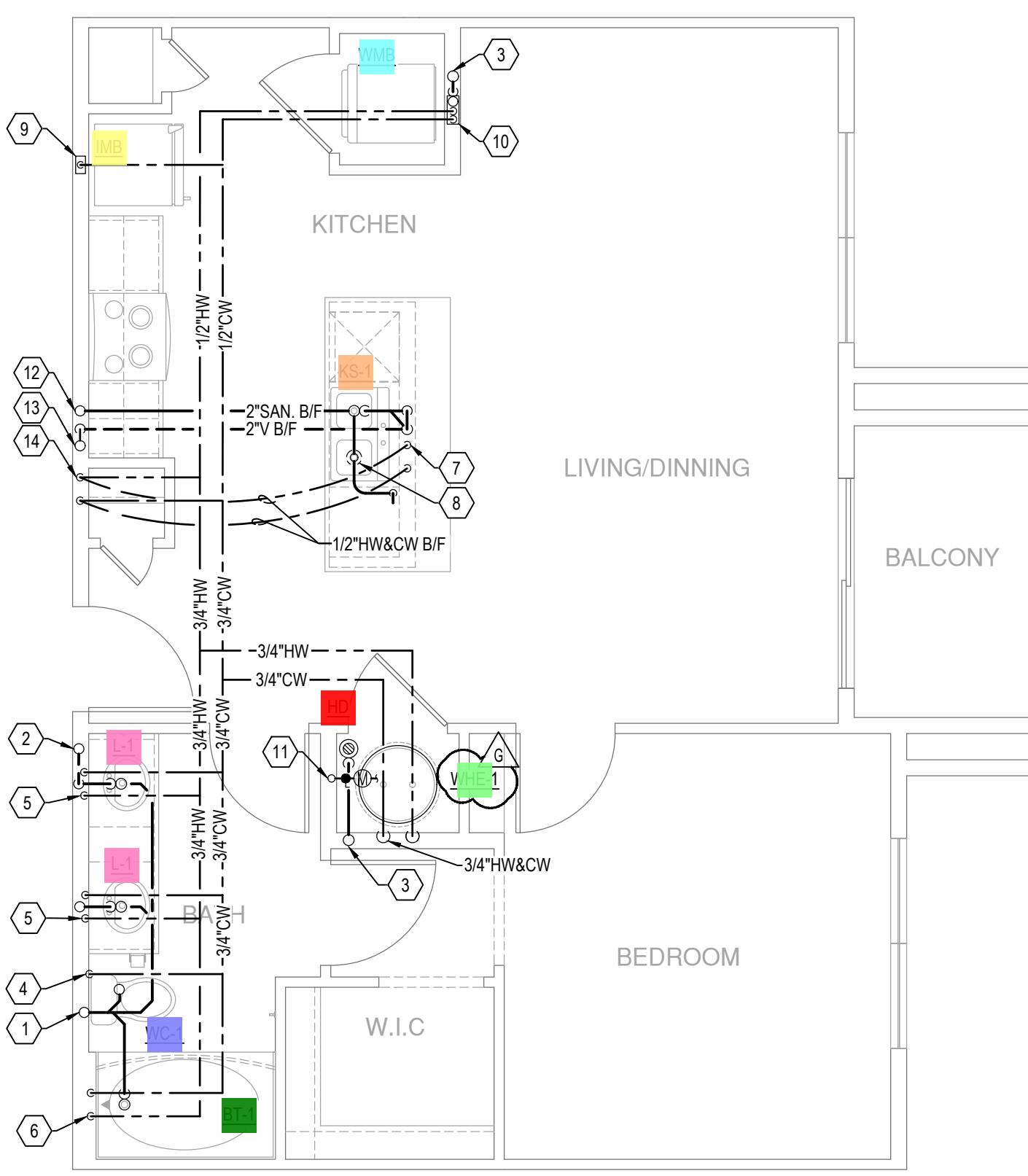
3 UNIT A3 ANSI TYPE A

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



2 UNIT A3-ALT1

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



1 UNIT A3

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

SHEET TITLE  
UNIT PLANSHEET NUMBER  
P3.02

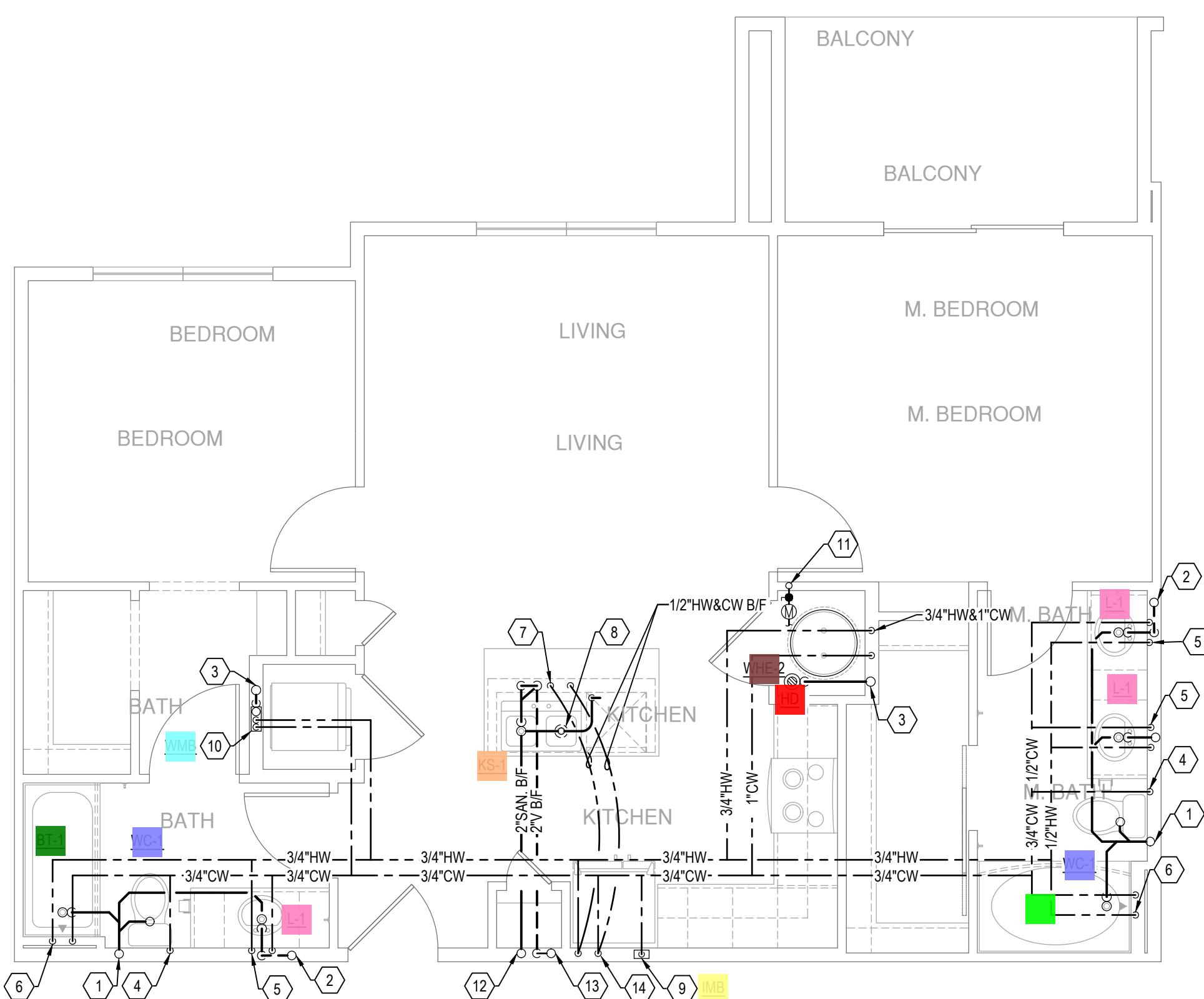
ISSUED FOR CONSTRUCTION

## Legend

	Description	Quantity	Unit
BT-1 - Bathtub	1	Count	
BT-1 - Bathtub	5	Count	
HD - Hub Drain	2	Count	
IMB - Ice Maker Box	4	Count	
KS-1 - Kitchen Sink	4	Count	
L-1 - Lavatory (Residential)	12	Count	
Shower	2	Count	
WC-1 - Water Closet (Residential)	8	Count	
WHE-2 - Electric Storage Water Heater	4	Count	
WMB - Washing Machine Box	4	Count	

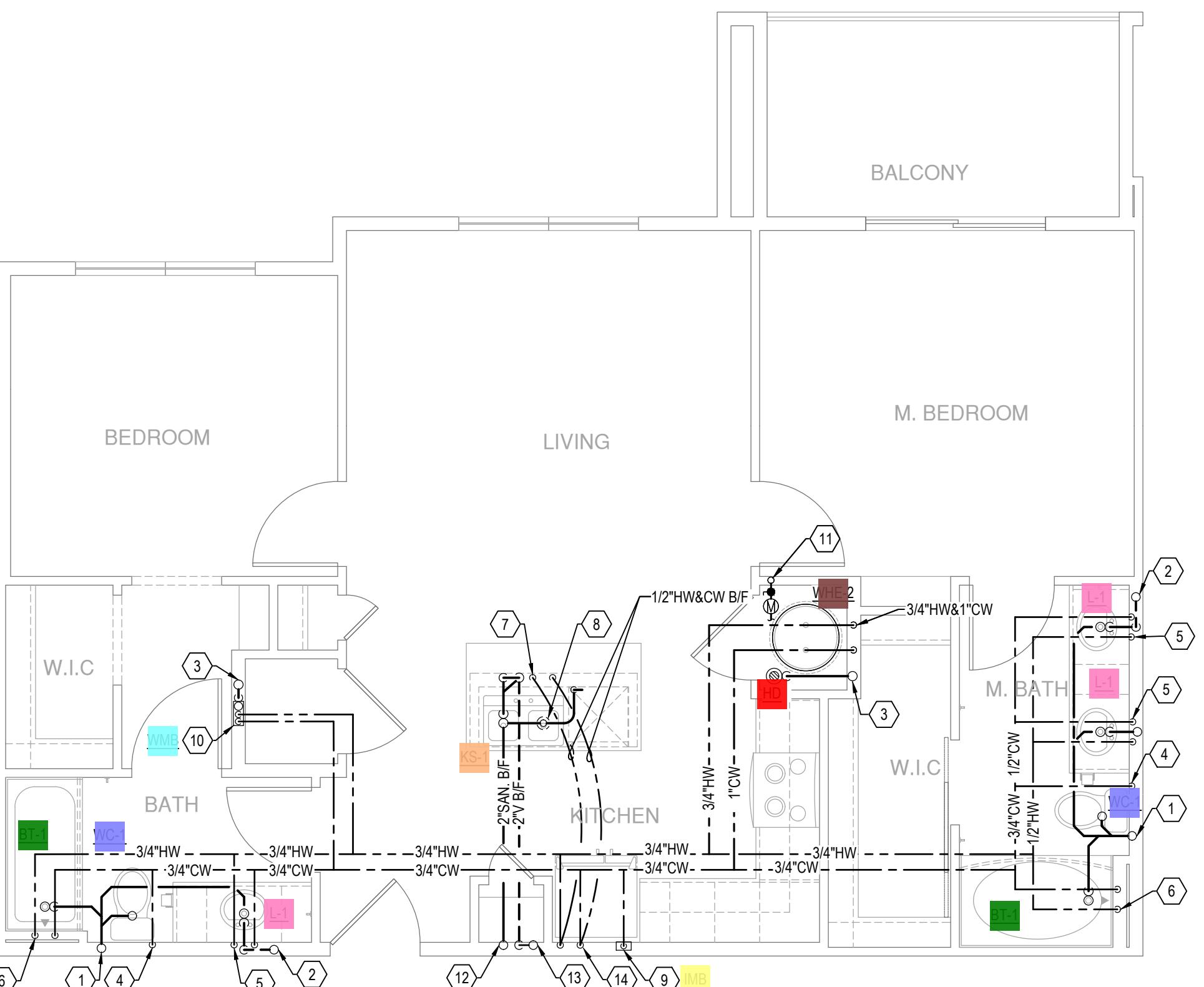
## KEY

- (1) 3"
- (2) 3"
- (3) 3"
- (4) 12"
- (5) 12"
- (6) 12"
- (7) 12"
- (8) DW IN
- (9) 12"
- (10) 1/2" DOMESTIC COLD AND HOT WATER IN WALL TO SERVE WASH BOX.
- (11) 1/2" DOMESTIC WATER RISER TO SERVE UNIT. INSTALL SHUT OFF VALVE AND SUB METER AS REQUIRED. SEE RISER DIAGRAMS FOR WATER RISER SIZING.
- (12) 2" SANITARY WASTE STACK
- (13) 2" SANITARY VENT STACK
- (14) 1/2" HW&CW DOWN TO BELOW FLOOR TO SERVE ISLAND SINK.



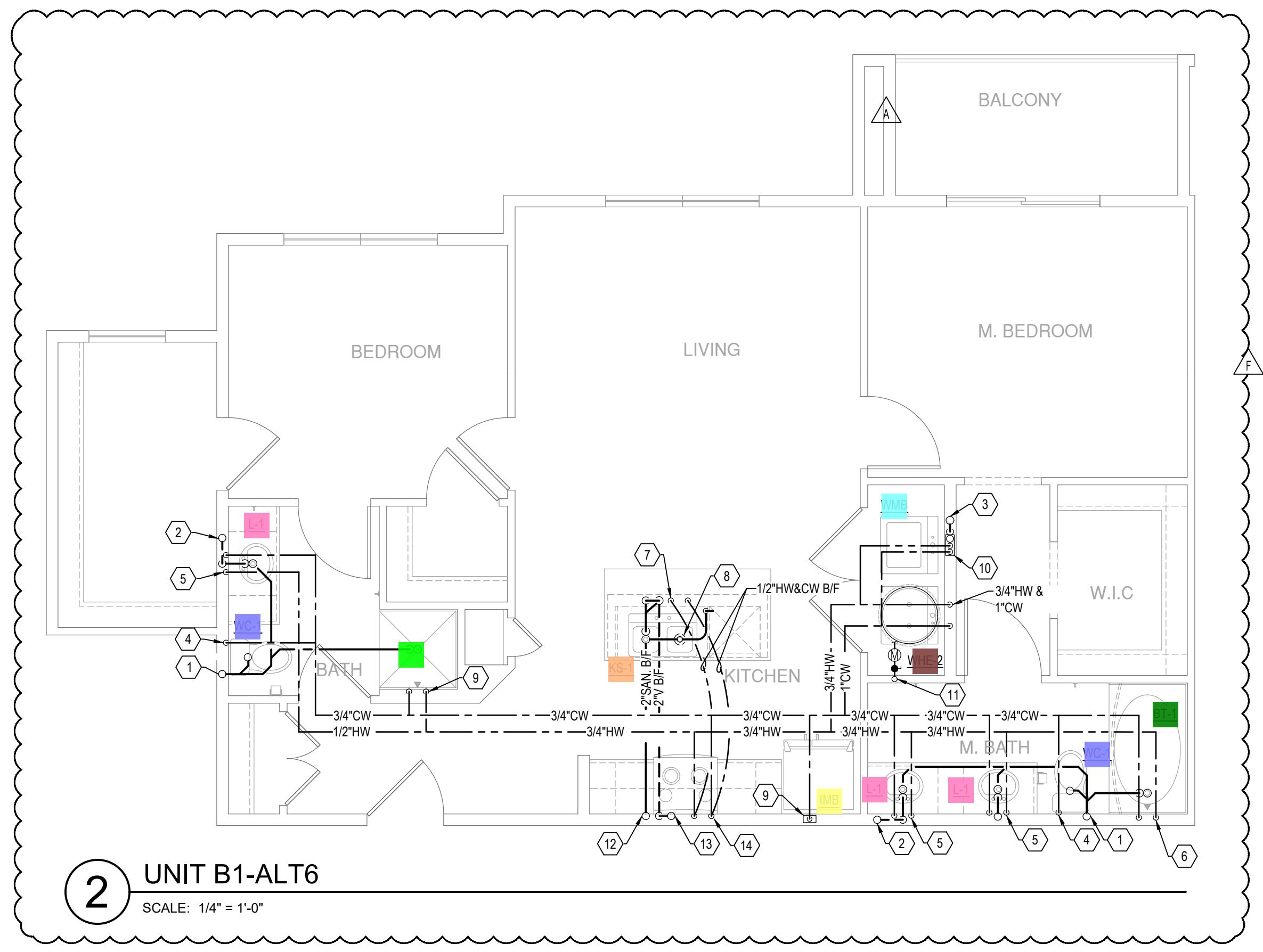
(4) UNIT B1-ALT3

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



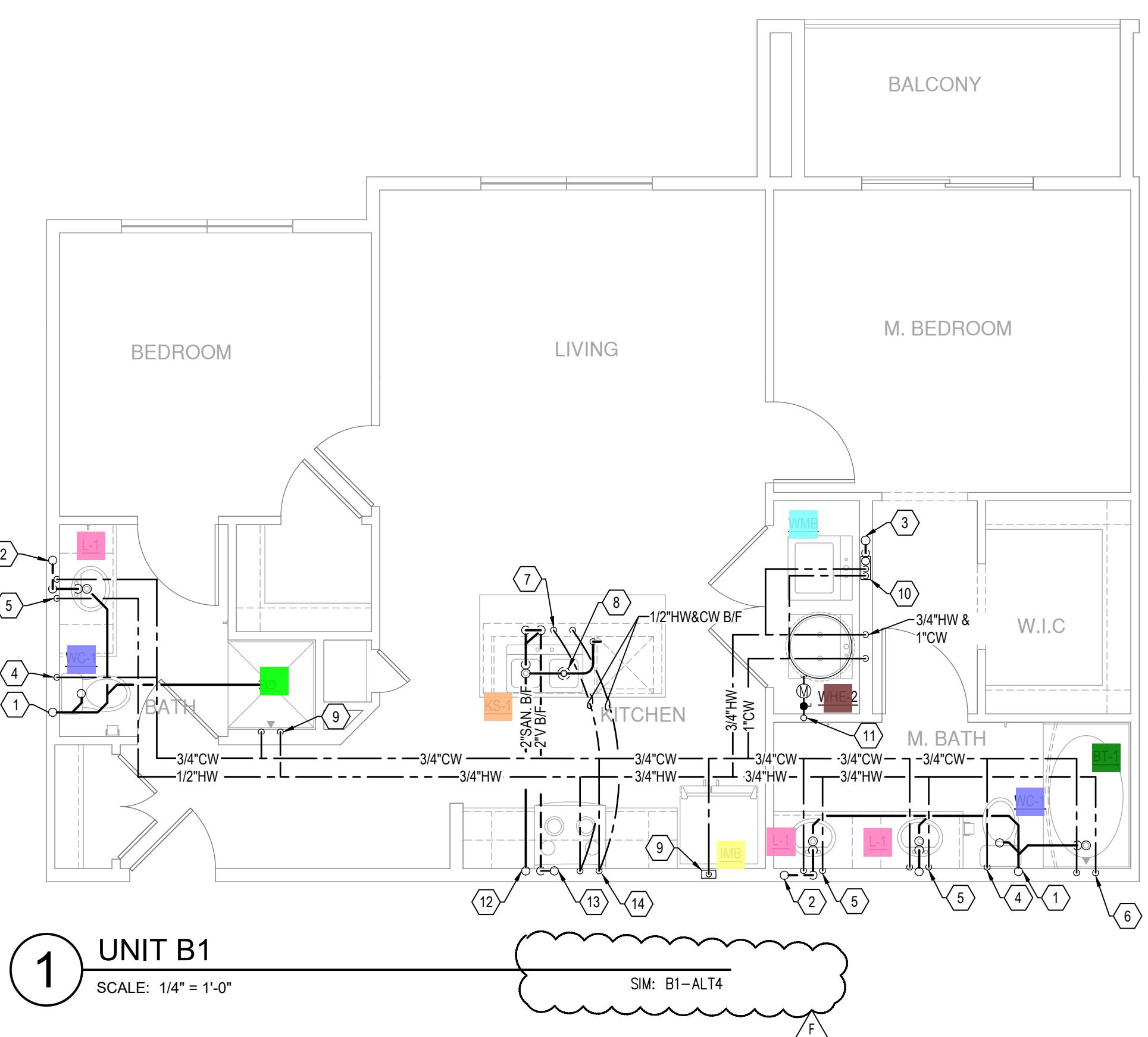
(3) UNIT B1-ALT1

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



(2) UNIT B1-ALT6

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



(1) UNIT B1

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

SIM: B1-ALT4

SHEET TITLE  
UNIT PLAN

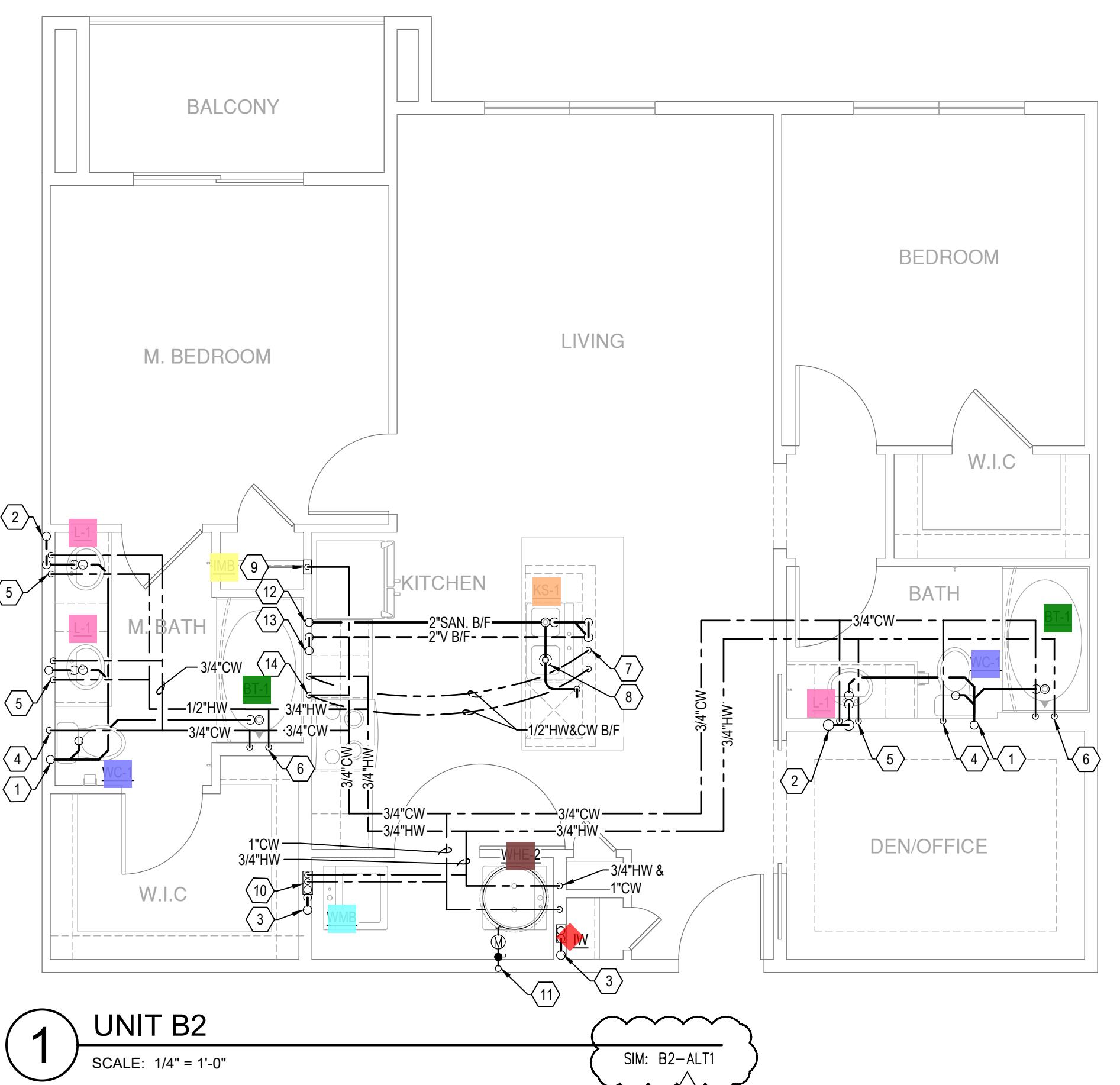
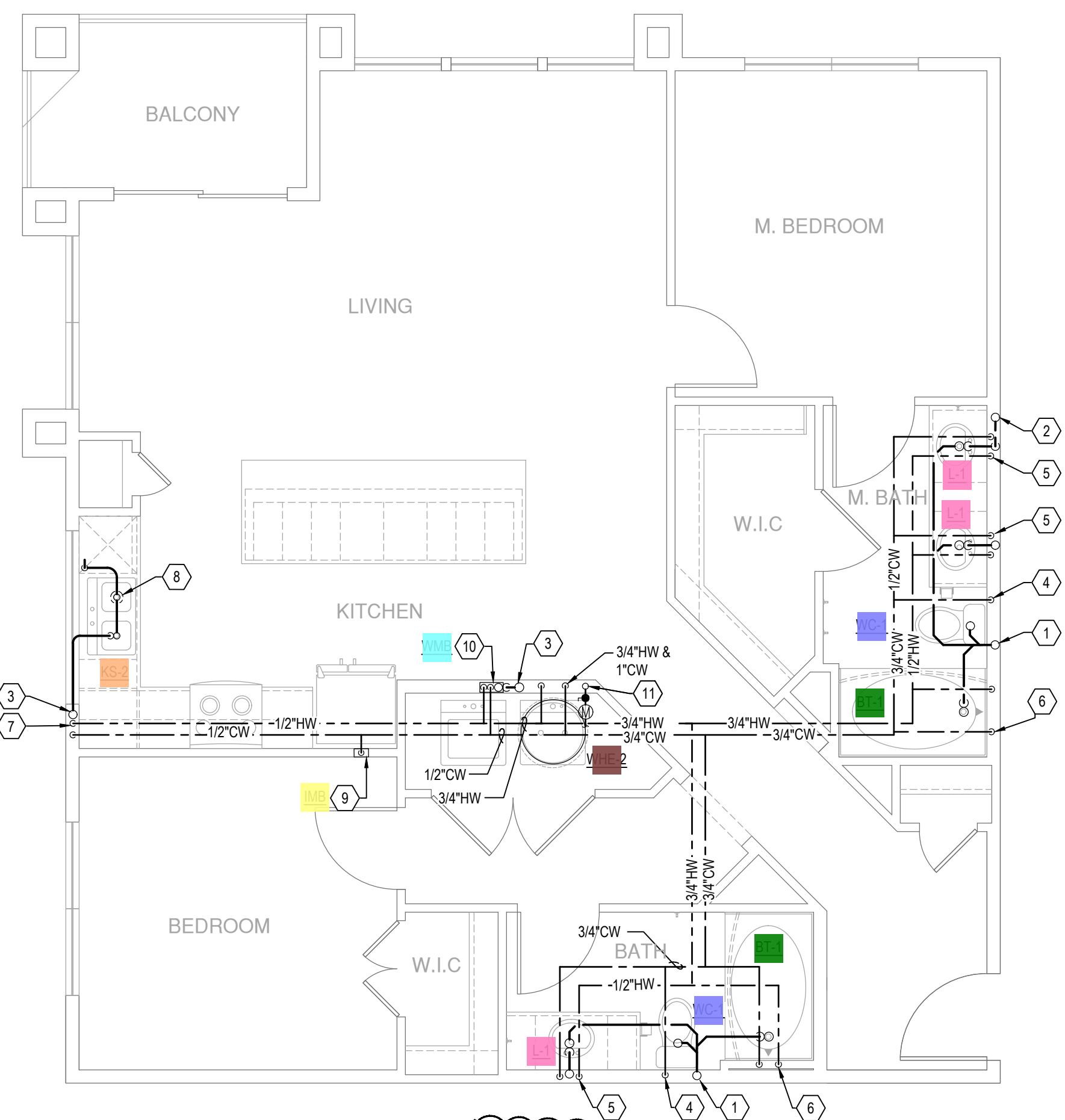
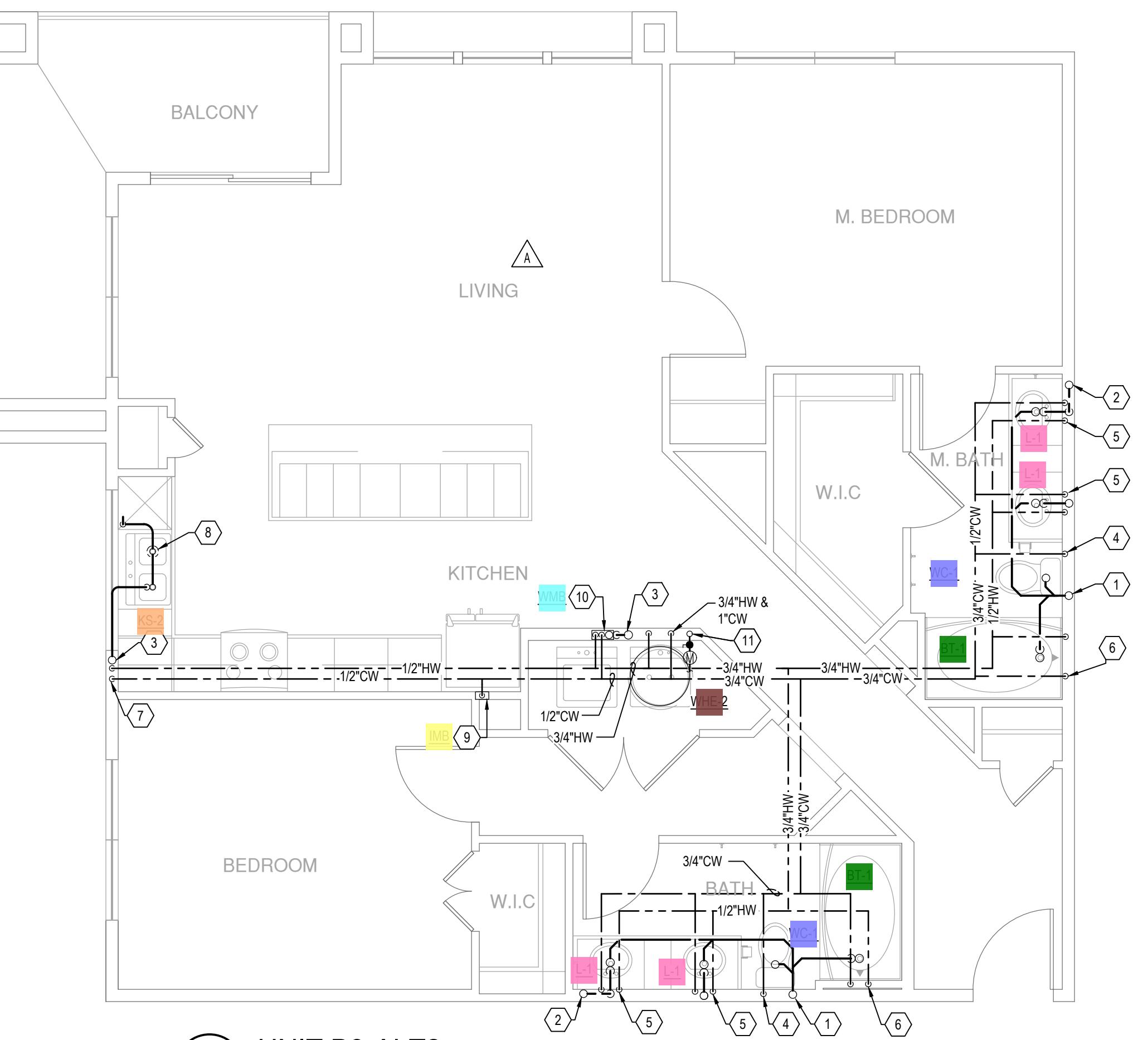
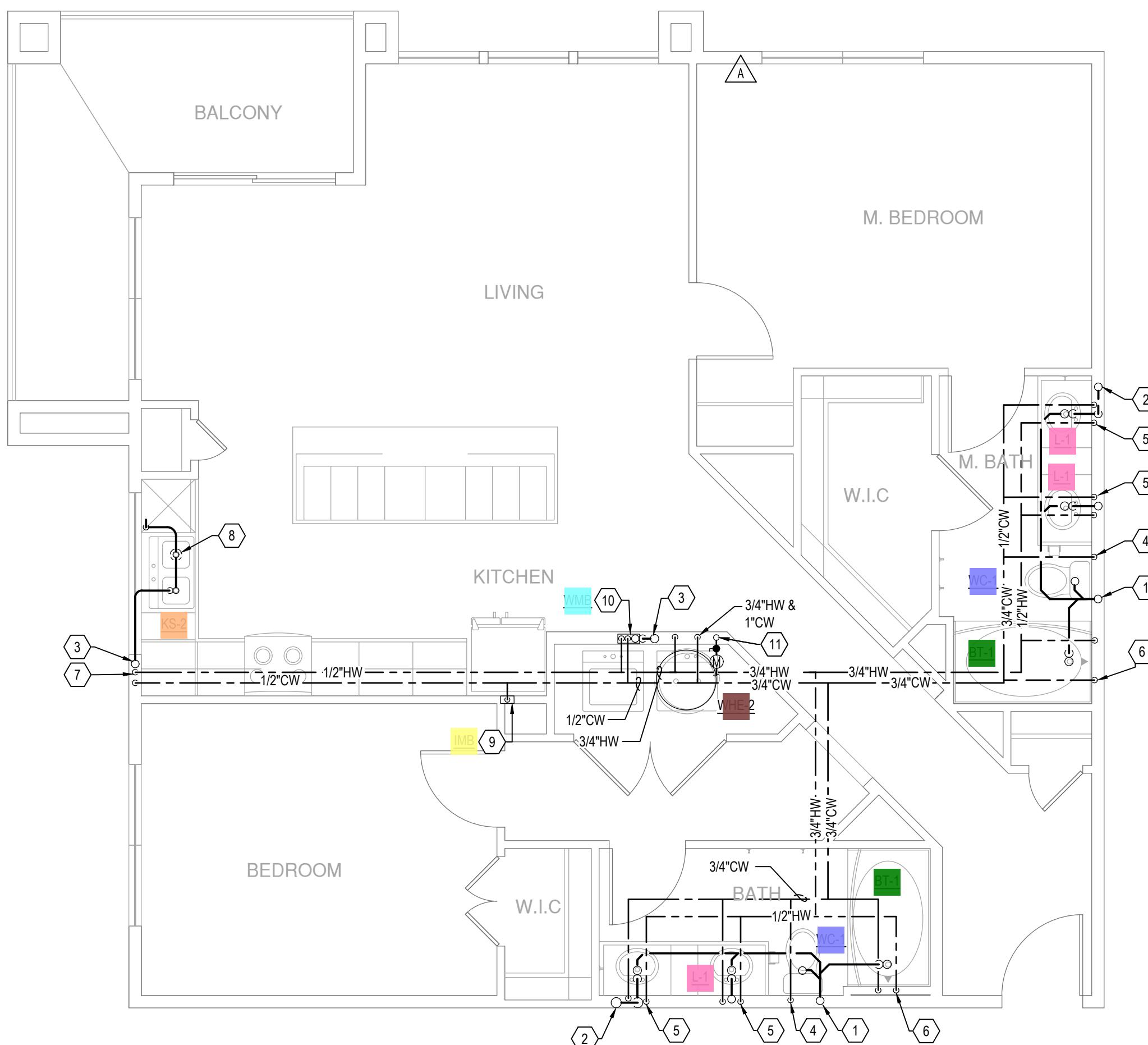
SHEET NUMBER

P3.03

ISSUED FOR CONSTRUCTION

## Legend

	Description	Quantity	Unit
<span style="background-color: green;">■</span>	BT-1 - Bathtub	8	Count
<span style="background-color: yellow;">■</span>	IMB - Ice Maker Box	4	Count
<span style="color: red;">◆</span>	IW -	1	Count
<span style="background-color: pink;">■</span>	KS-1 - Kitchen Sink	1	Count
<span style="background-color: blue;">■</span>	KS-2 - Kitchen Sink	3	Count
<span style="background-color: magenta;">■</span>	L-1 - Lavatory (Residential)	13	Count
<span style="background-color: blue;">■</span>	WC-1 - Water Closet (Residential)	8	Count
<span style="background-color: brown;">■</span>	WHE-2 - Electric Storage Water Heater	4	Count
<span style="background-color: cyan;">■</span>	WMB - Washing Machine Box	4	Count

SHEET TITLE  
UNIT PLAN

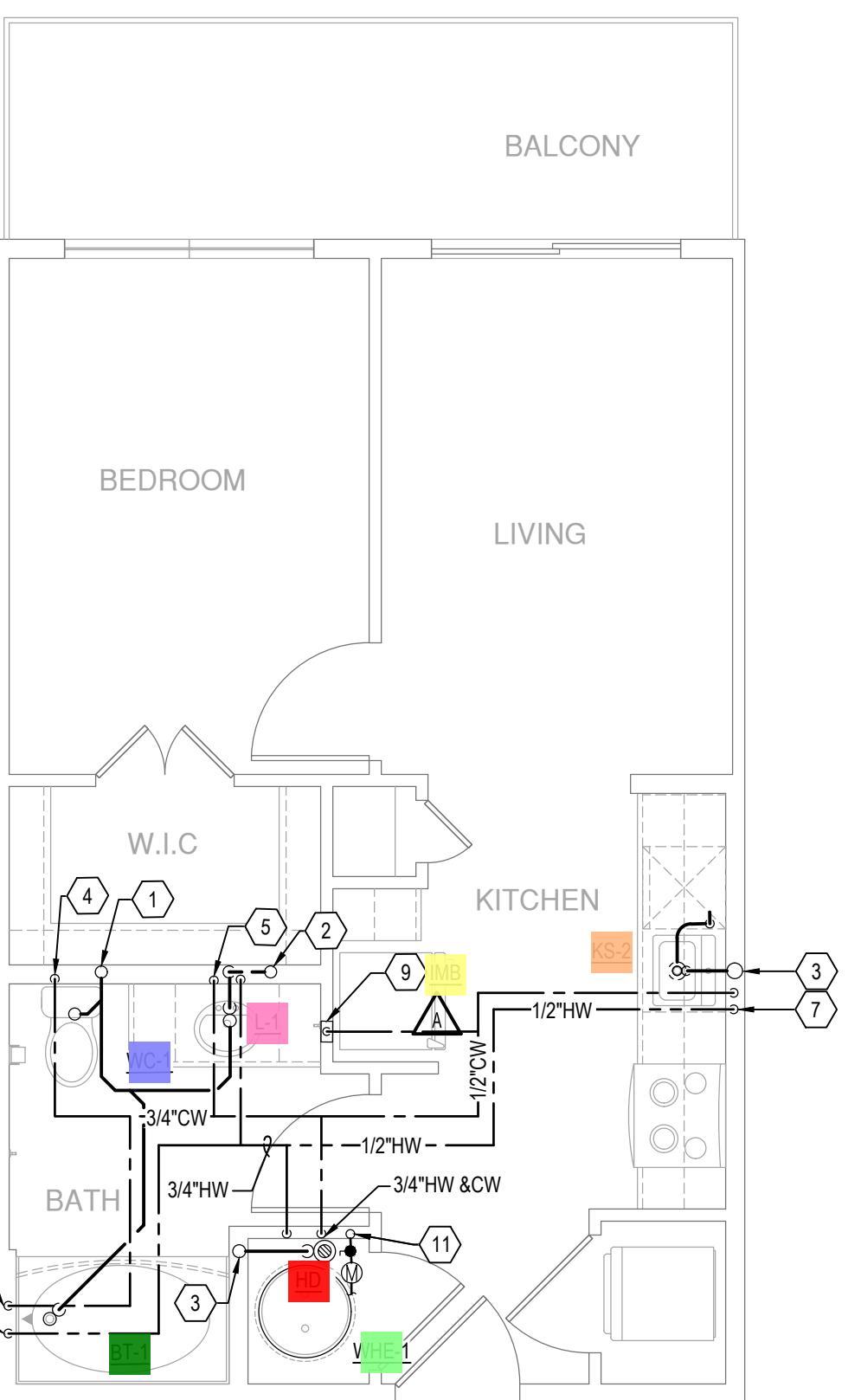
SHEET NUMBER

P3.04

ISSUED FOR CONSTRUCTION

## Legend

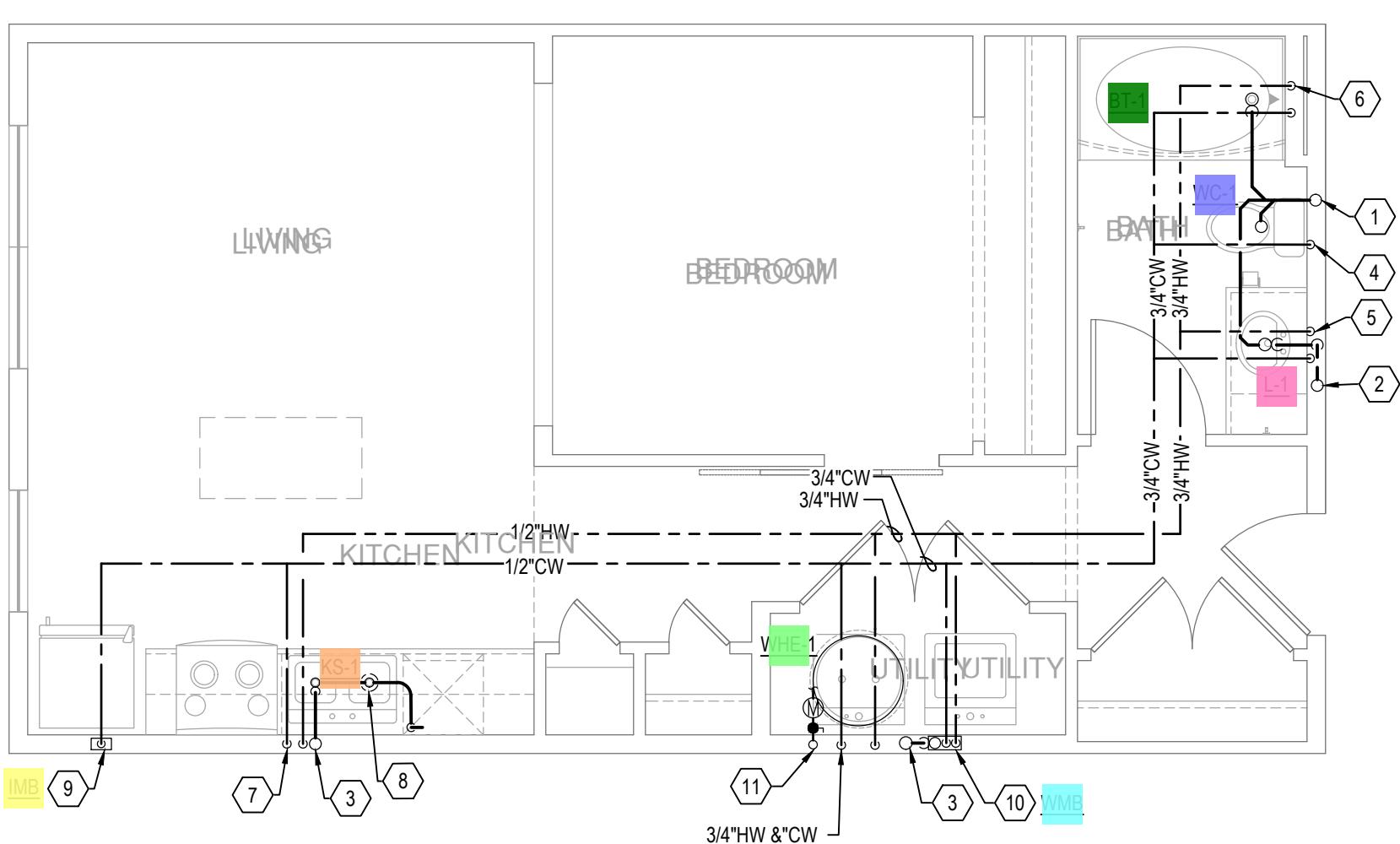
	Description	Quantity	Unit
BT-1 - Bathtub	3	Count	
BT-1H - Bathtub	2	Count	
HD - Hub Drain	3	Count	
IMB - Ice Maker Box	4	Count	
KS-1 - Kitchen Sink	1	Count	
KS-1H - Kitchen Sink	1	Count	
KS-2 - Kitchen Sink	2	Count	
L-1 - Lavatory (Residential)	3	Count	
L-1H - Lavatory (Residential)	2	Count	
WC-1 - Water Closet (Residential)	3	Count	
WC-1H - Water Closet (Residential)	2	Count	
WHE-1 - Electric Storage Water Heater	3	Count	
WHE-2 - Electric Storage Water Heater	1	Count	
WMB - Washing Machine Box	2	Count	



2 UNIT A-M1

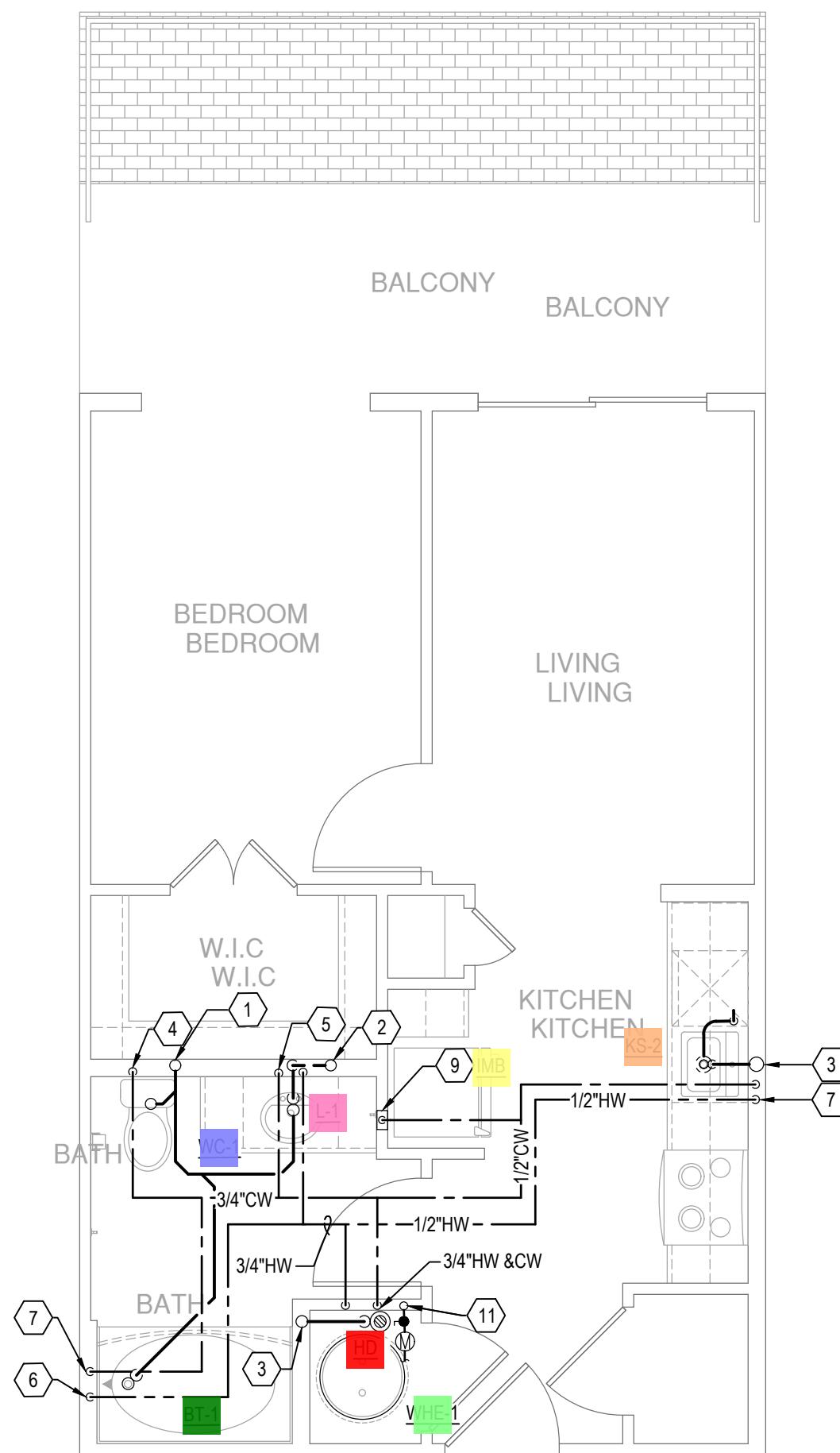
SCALE: 1/4" = 1'-0"

SIM: A-M1-ALT1



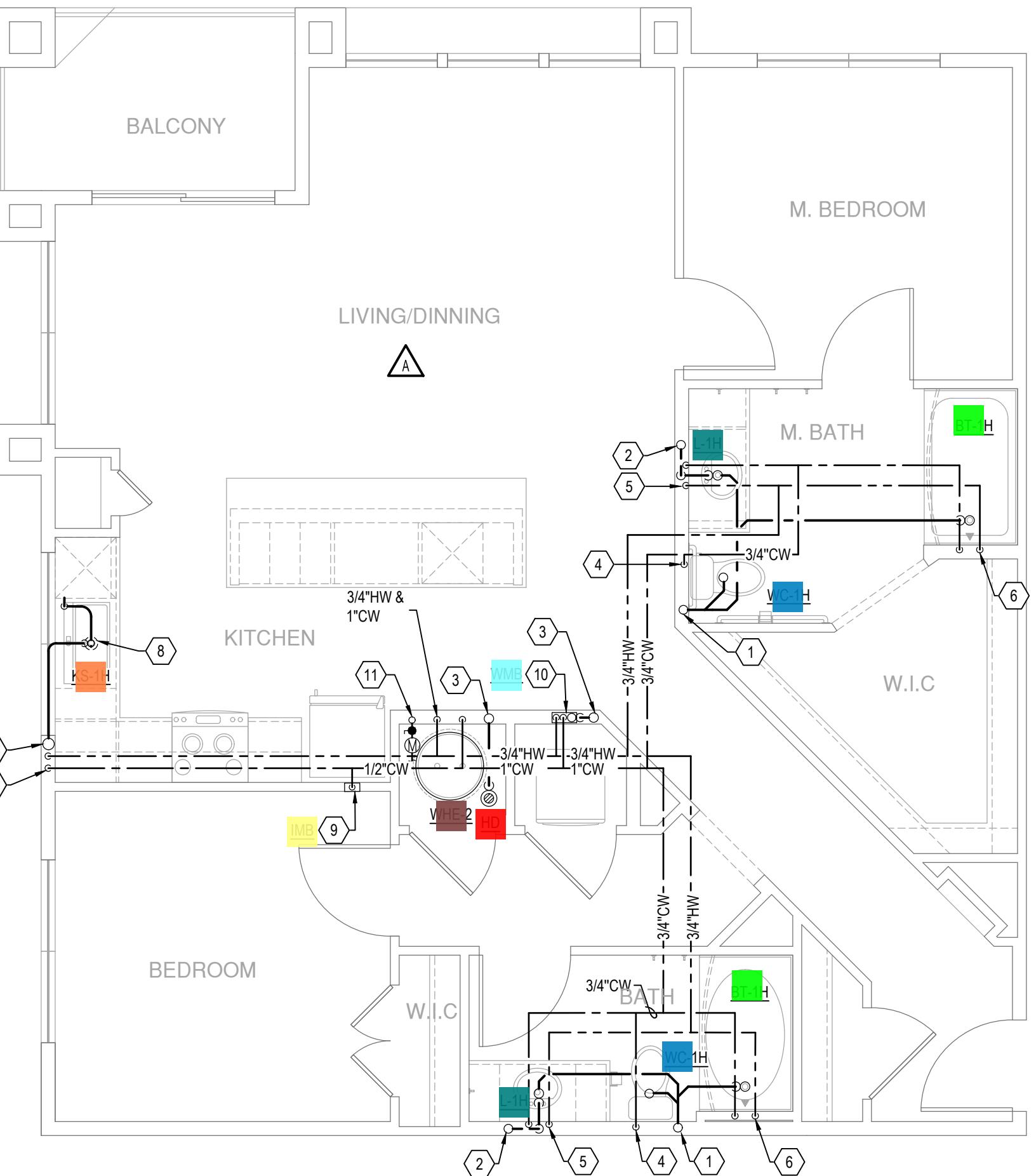
4 UNIT A-M2

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



3 UNIT A-M1-ALT1

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



1 UNIT B3 ANSI TYPE A

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

SIM: B3 ANSI TYPE A-ALT1

SHEET TITLE  
UNIT PLAN

SHEET NUMBER

P3.05

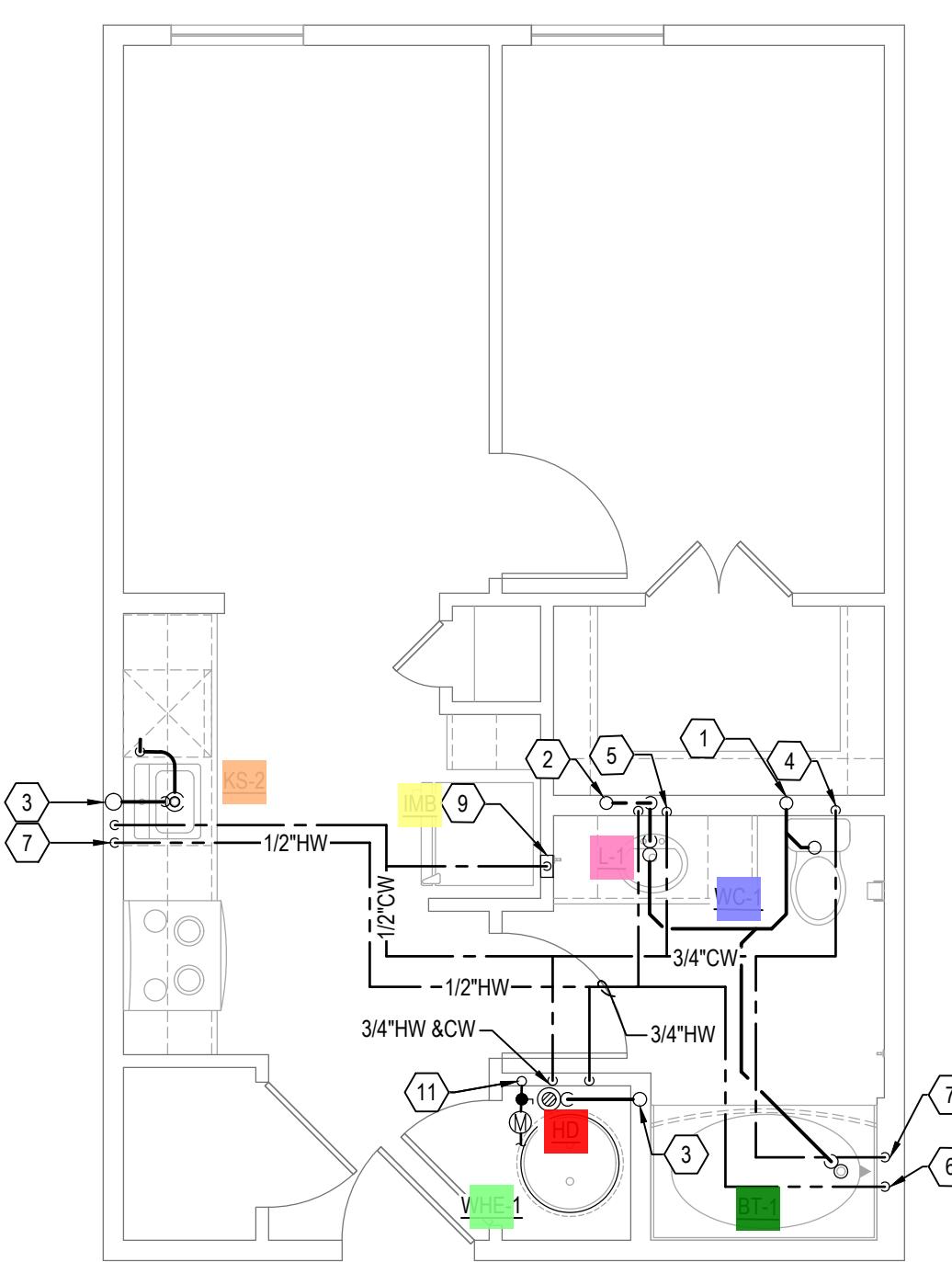
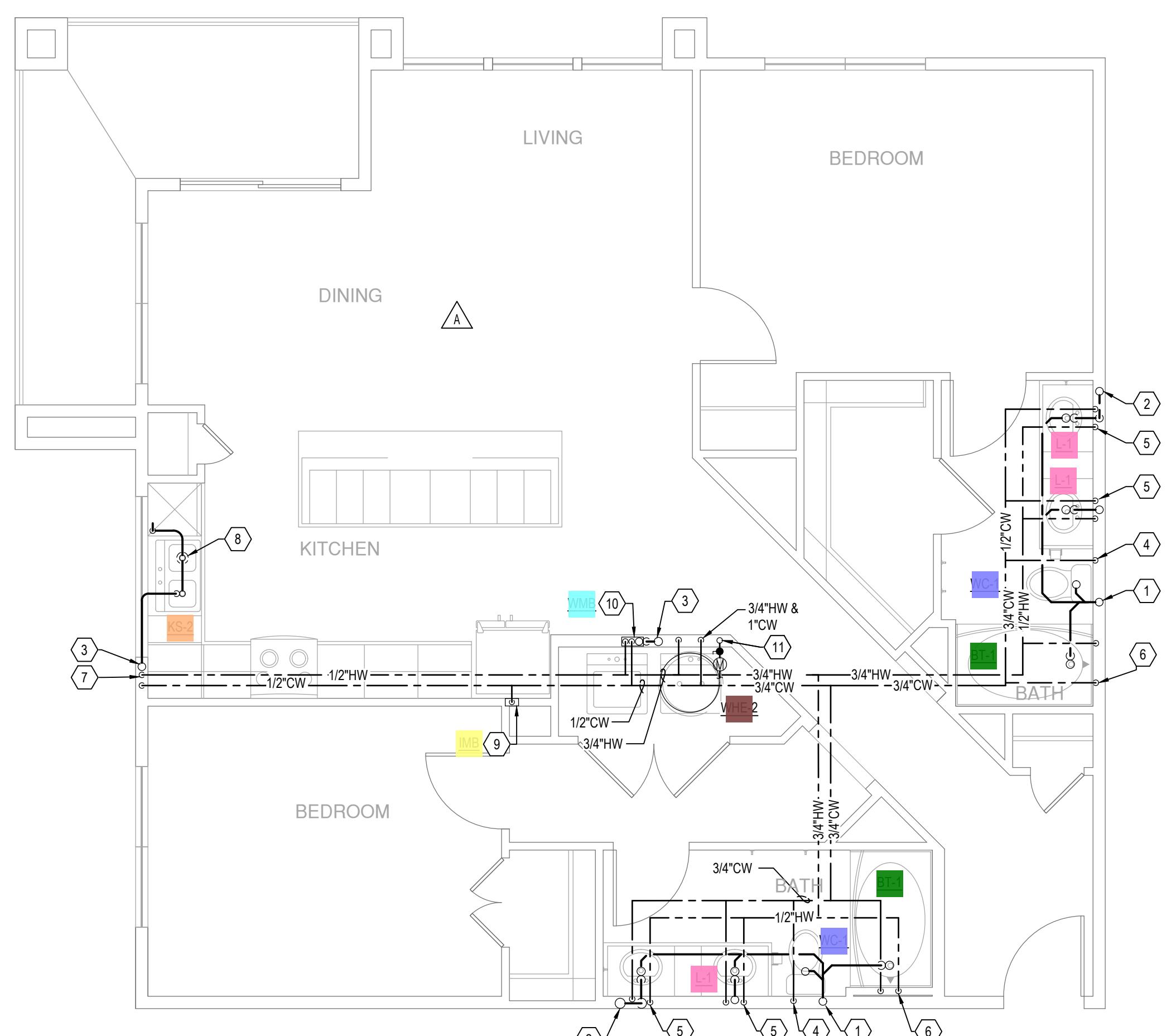
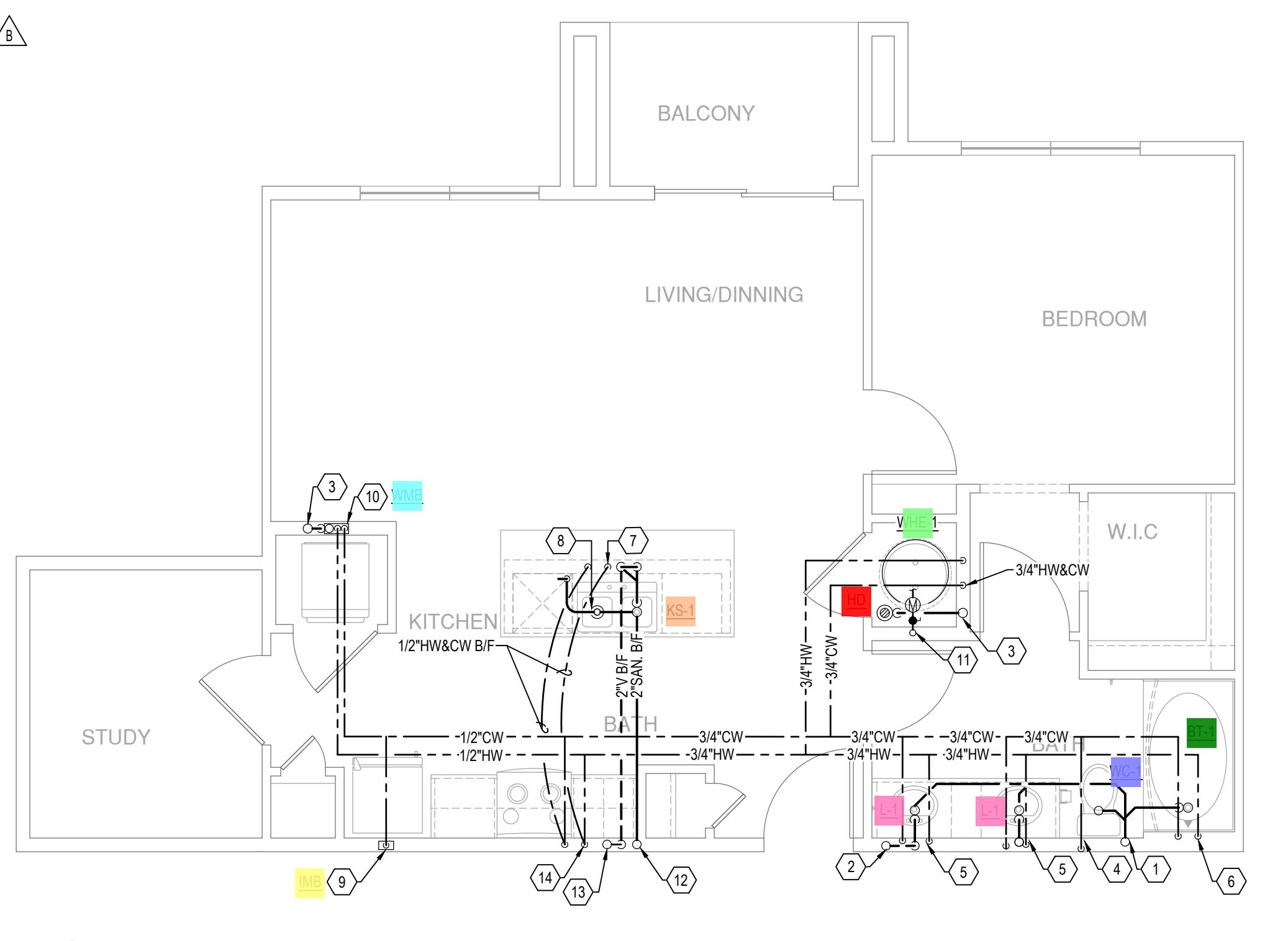
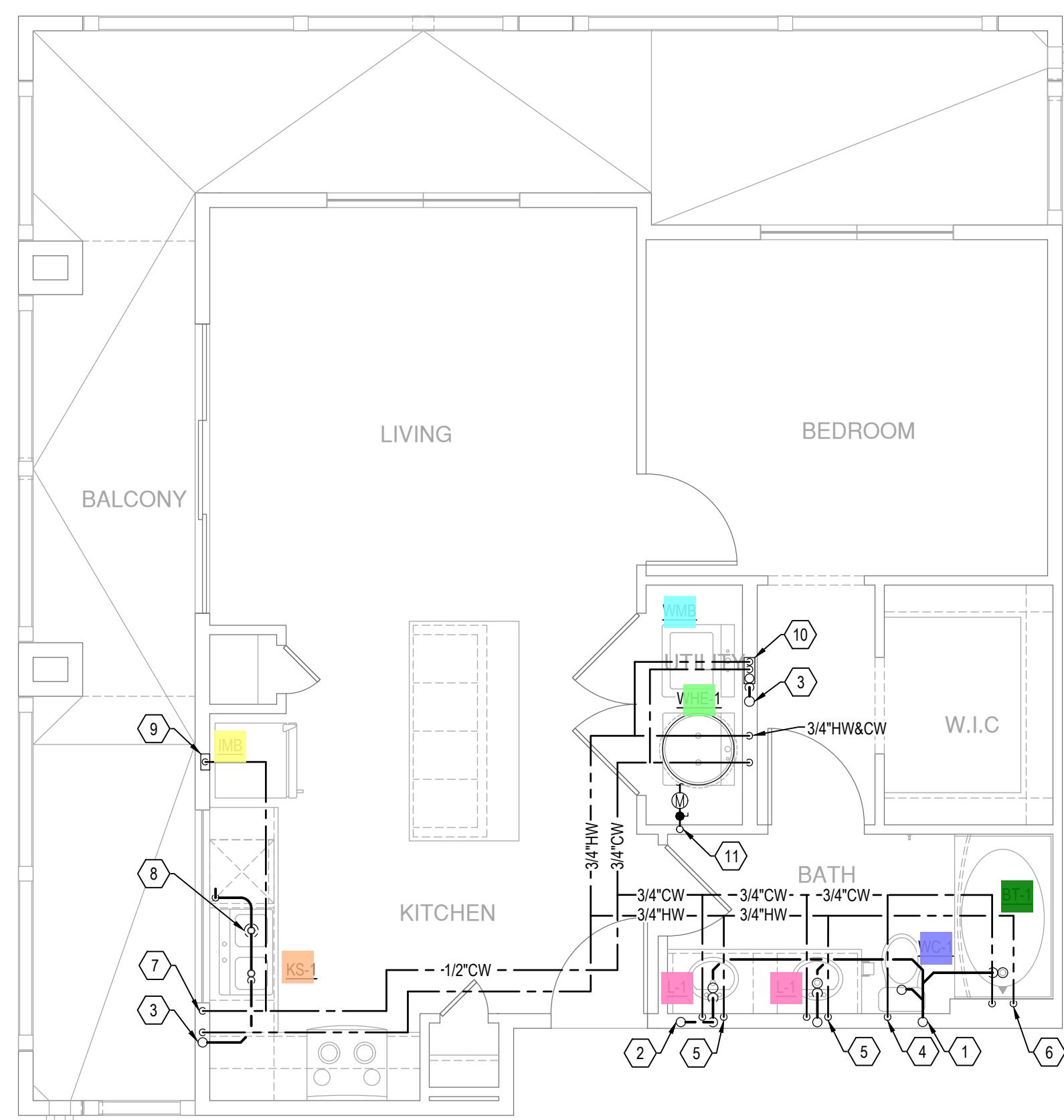
ISSUED FOR CONSTRUCTION

## Legend

	Description	Quantity	Unit
<span style="background-color: green;">■</span>	BT-1 - Bathtub	5	Count
<span style="background-color: red;">■</span>	HD - Hub Drain	2	Count
<span style="background-color: yellow;">■</span>	IMB - Ice Maker Box	4	Count
<span style="background-color: pink;">■</span>	KS-1 - Kitchen Sink	2	Count
<span style="background-color: pink;">■</span>	KS-2 - Kitchen Sink	2	Count
<span style="background-color: lightblue;">■</span>	L-1 - Lavatory (Residential)	8	Count
<span style="background-color: blue;">■</span>	WC-1 - Water Closet (Residential)	5	Count
<span style="background-color: lightgreen;">■</span>	WHE-1 - Electric Storage Water Heater	3	Count
<span style="background-color: brown;">■</span>	WHE-2 - Electric Storage Water Heater	1	Count
<span style="background-color: cyan;">■</span>	WMB - Washing Machine Box	3	Count

## KEY NOT

- (1) 3" SANITA
- (2) 3" SANITA
- (3) 3" SANITA
- (4) 1/2" DOME
- (5) 1/2" DOME
- (6) 1/2" DOME
- (7) 1/2" COLD WAY STOP HOT WATE
- (8) DISPOSAL DRAIN TH INLET, DIS
- (9) 1/2" DOME
- (10) 1/2" DOMESTIC COLD AND HOT WATER IN WALL TO SERVE WASH BOX.
- (11) DOMESTIC WATER RISER TO SERVE UNIT. INSTALL SHUT OFF VALVE AND SUB METER AS REQUIRED. SEE RISER DIAGRAMS FOR WATER RISER SIZING.
- (12) 2" SANITARY WASTE STACK
- (13) 2" SANITARY VENT STACK
- (14) 1/2" HW&CW DOWN TO BELOW FLOOR TO SERVE ISLAND SINK

SHEET TITLE  
UNIT PLAN

SHEET NUMBER

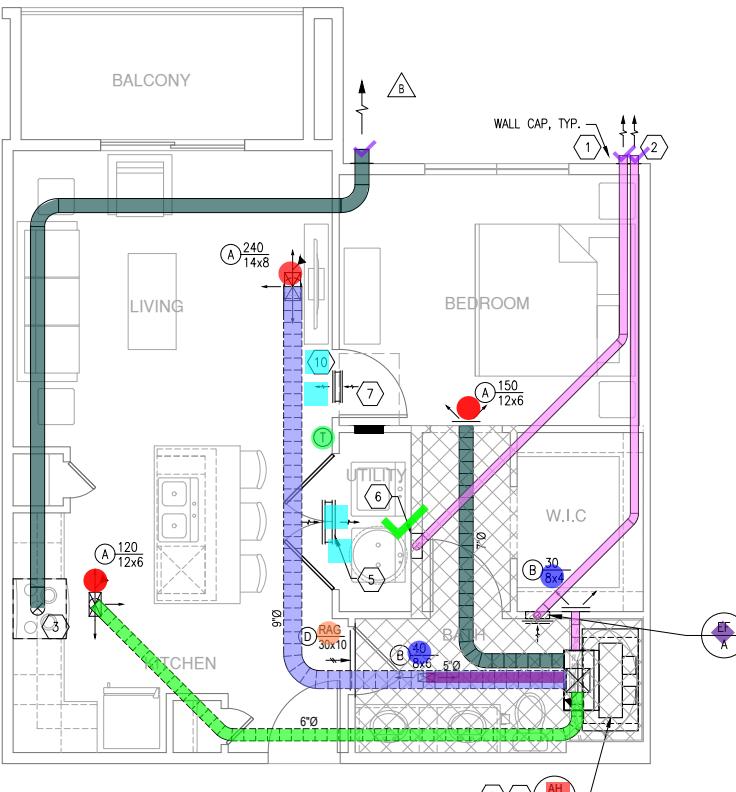
**P3.06**

ISSUED FOR CONSTRUCTION

### Legend

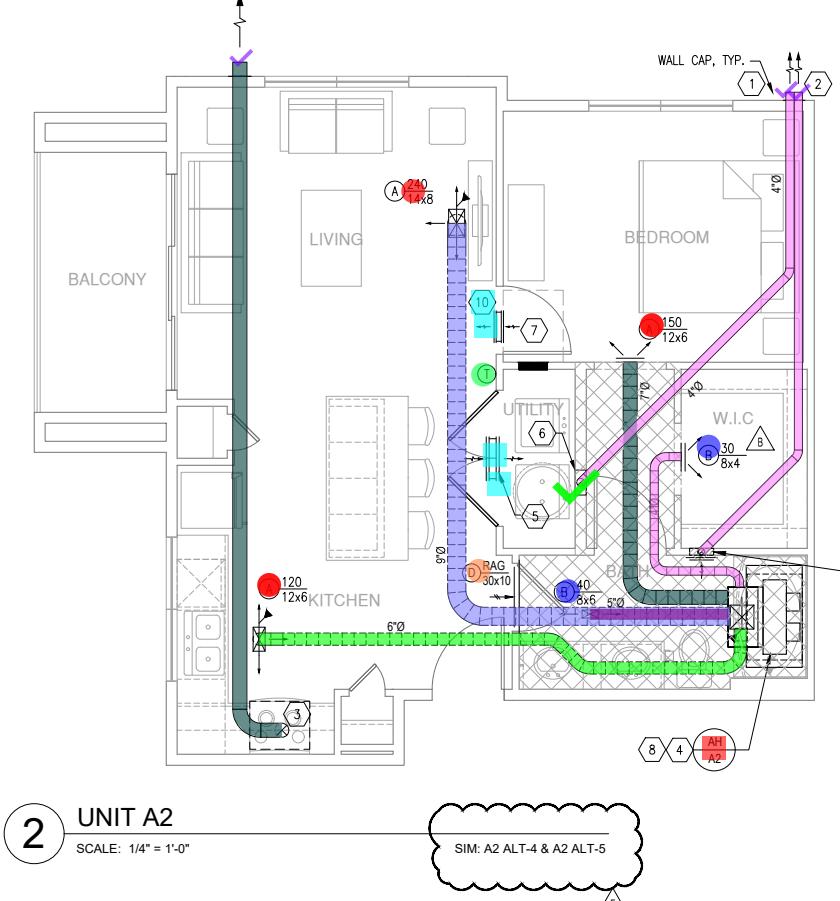
Description	Quantity	Unit
4" Dia. Duct	173.42	ft
5" Dia. Duct	17.24	ft
6" Dia. Duct	68.87	ft
7" Dia. Duct	25.75	ft
7" Dia. Duct	157.85	ft
9" Dia. Duct	53.34	ft
9" Dia. Duct	54.60	ft
A - Stamped Supply Register	13	Count
AH/A1 - Split System Cooling Units	1	Count
AH/A1 - Split System Cooling Units	1	Count
AH/A2 - Split System Cooling Units	3	Count
B - Stamped Supply Register	7	Count
D - Stamped Return Grille	4	Count
Dryer Vent Box	4	Count
E - Grille	16	Count
EF- A - Exhaust Fan	4	Count
Thermostat	4	Count
Wall Cap	12	Count

This given scale 1/4"=1'0" is wrong  
scale & the correct scale is  
1/8"=1'0"



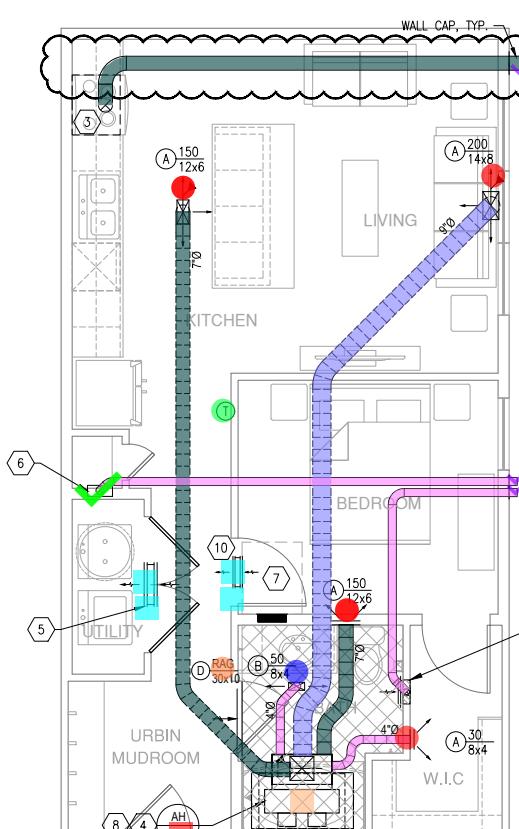
3 UNIT A2-ALT1

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



2 UNIT A2

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



1 UNIT A1

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

GENERAL NOTES: (APPLY TO THIS SHEET ONLY)	
1.	MECHANICAL CONTRACTOR SHALL COORDINATE WASHER BOX, ELECTRICAL RECEPTACLE, DRYER VENT BOX, ETC, BEHIND WASHER/DRYERS WITH PLUMBING AND ELECTRICAL DISCIPLINES PRIOR TO CONSTRUCTION.
2.	COORDINATE ALL WALL CAP AND SOFFIT VENT LOCATIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
3.	CONTRACTOR SHALL COORDINATE DUCTWORK ROUTING THROUGH 18-INCH DEEP OPEN WEB STRUCTURE AND ATTIC SPACE TO AVOID STRUCTURAL AND ARCHITECTURAL CONFLICTS.
4.	ALL WALL CAPS AND SOFFIT VENTS SHALL HAVE BACKDRAFT DAMPERS. TOILET EXHAUST SHALL INCLUDE INSECT SCREEN.
5.	GENERAL CONTRACTOR SHALL COORDINATE STRUCTURAL WOOD TRUSSES INSTALLED ABOVE VERTICAL AIR HANDLING UNITS TO AVOID HVAC AND STRUCTURAL CONFLICTS. HVAC WILL HAVE A SUPPLY DUCT/DISCHARGE PLENUM THAT MUST EXTEND BETWEEN OPEN WEB JOISTS/TRUSSES.
6.	MANTAIN A MINIMUM OF 3'-0" BETWEEN ALL OPERABLE BUILDING OPENINGS AND ANY EXHAUST TERMINATIONS, GAS FLUES, OR PLUMBING VENTS.
7.	MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCTWORK AND EQUIPMENT IN BATHROOMS WITH PLUMBING.
8.	COORDINATE ALL TOILET EXHAUST FANS WITH WALL CABINETS AND MEDICINE CABINETS. FANS LOCATED AT WALL ADJACENT TO TOILETS SHALL BE MOUNTED A MINIMUM OF 14-INCH AWAY FROM THE WALL THE TOILET IS MOUNTED TO AVOID CONFLICT WITH THE CABINET OVER THE TOILET.
9.	COORDINATE ALL T-STAT LOCATIONS WITH GENERAL CONTRACTOR AND OWNER PRIOR TO INSTALLATION. MOUNT T-STAT 8" FROM CORNER OR END OF WALL.
10.	CONTRACTOR TO ROUTE TOP LEVEL TOILET AND DRYER EXHAUSTS DOWN TO CEILING TRUSS SPACE OF BELOW FLOOR.
11.	MANTAIN A MINIMUM OF 10'-0" BETWEEN ALL MECHANICAL AIR INTAKES AND ANY EXHAUST TERMINATIONS, GAS FLUES, OR PLUMBING VENTS.
12.	THE LAST 10'-0" OF DRYER, KITCHEN AND BATH EXHAUST SHALL BE SLOPED AT 1/8" PER FOOT TO EXTERIOR WALL CAP.
13.	ROUTE TOILET EXHAUST AND DRYER DUCTWORK THROUGH OPEN WEB STRUCTURE.
14.	BEDROOM DOORS SHALL BE UNDERCUT (BY OTHERS) FOR RETURN AIR PATH.

KEYED NOTES (APPLIES TO THIS SHEET ONLY)	
①	ROUTE #2 DRYER EXHAUST VENT UP FROM DRYER VENT BOX INTO STRUCTURE, ROUTE #2 DRYER EXHAUST DUCT WITHIN STRUCTURE TO EXTERIOR WALL CAP OR SOFFIT VENT. COORDINATE WITH ARCHITECT EXTERIOR WALL LOUVER LOCATION.
②	#2 BATH EXHAUST ROUTED TO EXTERIOR WALL CAP. COORDINATE WITH ARCHITECT. EXTERIOR WALL LOUVER LOCATION.
③	RANGE HOODS ARE VENTED TO EXTERIOR FOR ALL RANGE HOOD EQUIPMENT IS PROVIDED BY OTHERS.
④	ROUTE PRIMARY 3/4" CONDENSATE TO NEAREST HUB DRAIN IN HVAC CLOSET. REFER TO PLUMBING FOR EXACT LOCATION. PROVIDE FLOAT SAFE-T SWITCH FOR SECONDARY CONDENSATE.
⑤	LAUNDRY DRYER MAKE UP AIR THROUGH TRANSFER DUCT WITH (2) TYPE E 18x10 TRANSFER GRILLES LOCATED ON EACH SIDE OF WALL. 1" UNDERCUT FOR DRYER MAKEUP AIR TO ALLOW 120 SQ. INCHES OF FREE AREA.
⑥	DRYER VENT BOX. REFER TO MECHANICAL DETAILS ON M03.
⑦	ELECTRICAL PANELS SHOWN FOR REFERENCE. REFER TO ELECTRICAL DRAWINGS. CONTRACTOR TO AVOID ANY DUCTWORK OVER ELECTRICAL PANEL.
⑧	ROUTE 12x12 SA DUCT UP INTO STRUCTURE WITH CRD DAMPER AT CEILING PENETRATION. PROVIDE ACCESS PANEL IN CEILING AND PLENUM BOX TO SERVICE DAMPER.
⑨	PROVIDE TRANSFER OPENING ABOVE FURDOWN CEILING WITH 2.0 SQUARE FEET FREE AREA MINIMUM.
⑩	BEDROOM H/L/W TRANSFER THROUGH TRANSFER DUCT WITH 18x10 TYPE E GRILLES ON EACH SIDE OF WALL.

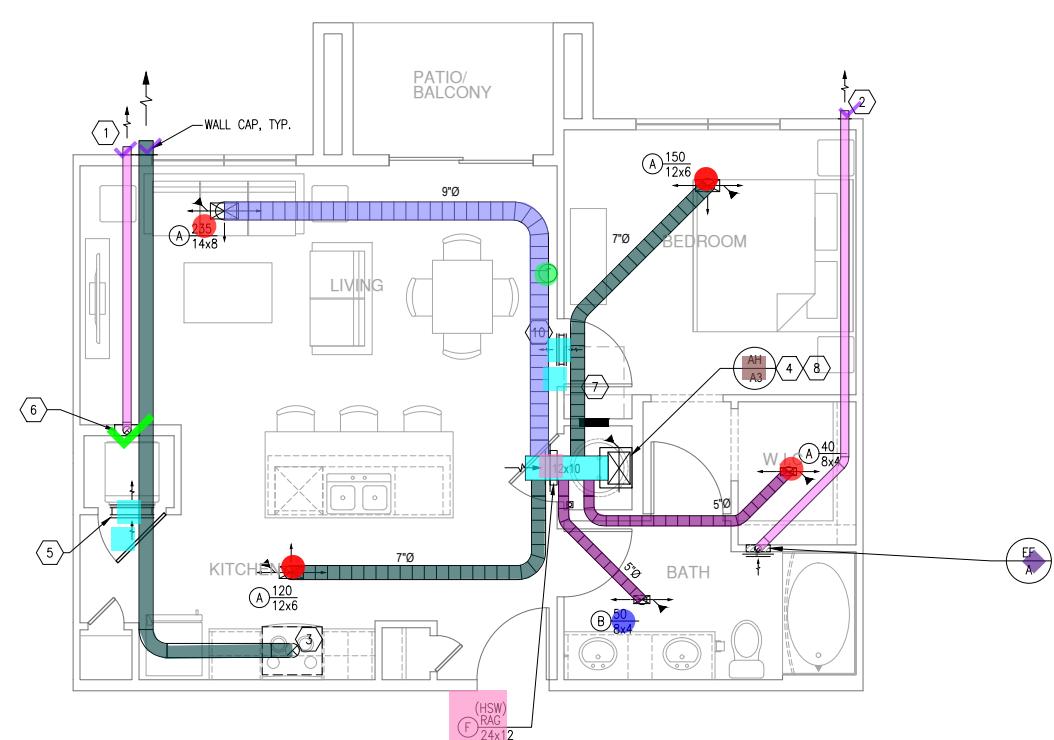
FURDOWN LEGEND	
	14" INSIDE CLEAR PLENUM RATED FURDOWN. BOX OUT OPENINGS WITH DRYWALL TO MAINTAIN FIRE RATING. REFER TO IMC SECTION 602.2.1. (BY OTHERS)
	NON-RATED ARCHITECTURAL 14" CLEAR FURDOWN. REFER TO ARCHITECTURAL PLANS.

DUCTWORK LEGEND:	
	FLEX DUCTWORK LOCATED WITHIN PLENUM.
	FLEX DUCTWORK LOCATED WITHIN TRUSSES.

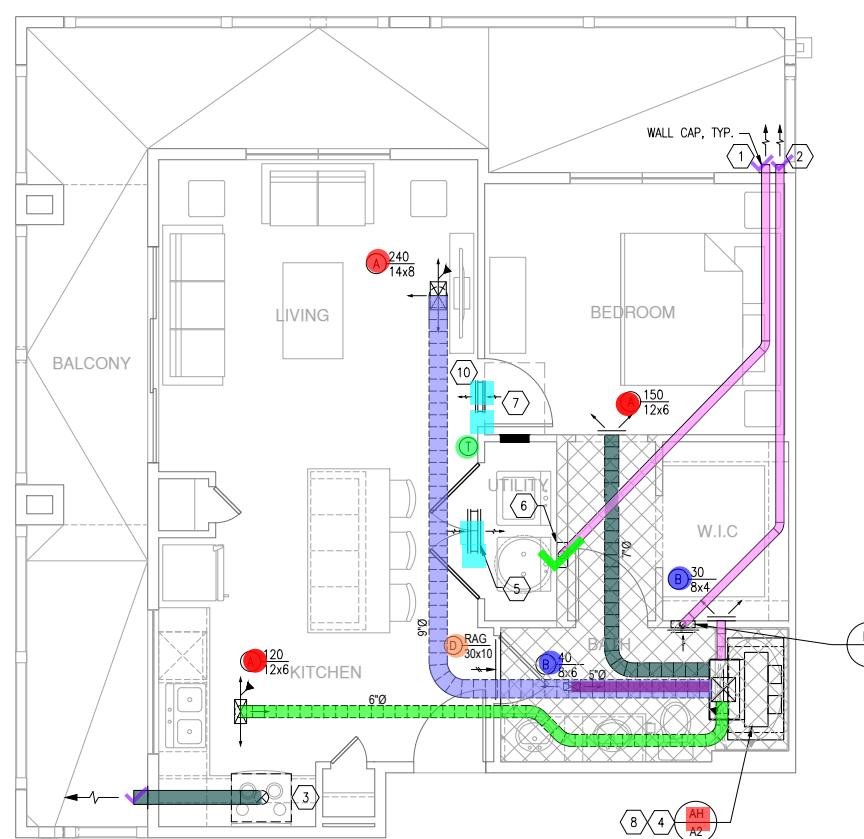
### Legend

Description	Quantity	Unit
4" Dia. Duct	161.54	ft
5" Dia. Duct	22.62	ft
6" Dia. Duct	50.79	ft
7" Dia. Duct	190.78	ft
9" Dia. Duct	92.60	ft
12X10 Duct	10.99	ft
A - Stamped Supply Register	16	Count
AH/A2 - Split System Cooling Units	1	Count
AH/A3 - Split System Cooling Units	3	Count
B - Stamped Supply Register	5	Count
D - Stamped Return Grille	1	Count
Dryer Vent Box	4	Count
E - Grille	16	Count
EF- A - Exhaut Fan	4	Count
F - 35 Degree Fixed Blade Return Grille	4	Count
OAF - A - Exhaut Fan	1	Count
Thermostat	4	Count
Wall Cap	13	Count

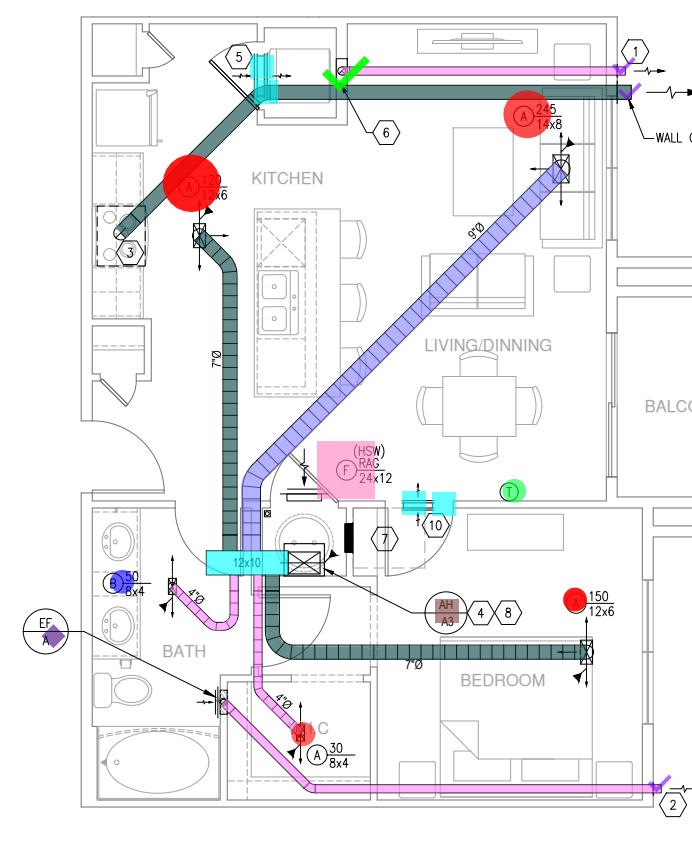
This given scale  
1/4"=1'0" is wrong  
scale & the correct  
scale is 1/8"=1'0"



3 UNIT A3-ALT1  
SCALE: 1/4" = 1'-0"



1 UNIT A2-ALT3  
SCALE: 1/4" = 1'-0"



2 UNIT A3  
SCALE: 1/4" = 1'-0"

GENERAL NOTES: (APPLY TO THIS SHEET ONLY)	
1.	MECHANICAL CONTRACTOR SHALL COORDINATE WASHER BOX, ELECTRICAL RECEPTACLE, DRYER VENT BOX, ETC. BEHIND WASHER/DRYERS WITH PLUMBING AND ELECTRICAL DISCIPLINES PRIOR TO CONSTRUCTION.
2.	COORDINATE ALL WALL CAP AND SOFFIT VENT LOCATIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
3.	CONTRACTOR SHALL COORDINATE DUCTWORK ROUTING THROUGH 18-INCH DEEP OPEN WEB STRUCTURE AND ATTIC SPACE TO AVOID STRUCTURAL AND ARCHITECTURAL CONFLICTS.
4.	ALL WALL CAPS AND SOFFIT VENTS SHALL HAVE BACKDRAFT DAMPERS. TOILET EXHAUST SHALL INCLUDE INSECT SCREEN.
5.	GENERAL CONTRACTOR SHALL COORDINATE STRUCTURAL WOOD TRUSSES INSTALLED ABOVE VERTICAL AIR HANDLING UNITS TO AVOID HVAC AND STRUCTURAL CONFLICTS. HVAC WILL HAVE A SUPPLY DUCT DISCHARGE PLENUM THAT MUST EXTEND BETWEEN OPEN WEB JOISTS/TRUSSES.
6.	MANTAIN A MINIMUM OF 9'-0" BETWEEN ALL OPERABLE BUILDING OPENINGS AND ANY EXHAUST TERMINATIONS, GAS FLUES, OR PLUMBING VENTS.
7.	MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCTWORK AND EQUIPMENT IN BATHROOMS WITH PLUMBING.
8.	COORDINATE ALL TOILET EXHAUST FANS WITH WALL CABINETS AND MEDICINE CABINETS. FANS LOCATED AT WALL ADJACENT TO TOILETS SHALL BE MOUNTED A MINIMUM OF 14-INCH AWAY FROM THE WALL THE TOILET IS MOUNTED TO AVOID CONFLICT WITH THE CABINET OVER THE TOILET.
9.	COORDINATE ALL T-STAT LOCATIONS WITH GENERAL CONTRACTOR AND OWNER PRIOR TO INSTALLATION. MOUNT T-STAT 8' FROM CORNER OR END OF WALL.
10.	CONTRACTOR TO ROUTE TOP LEVEL TOILET AND DRYER EXHAUSTS DOWN TO CEILING THRU SPACE OF BELOW FLOOR.
11.	MANTAIN A MINIMUM OF 10'-0" BETWEEN ALL MECHANICAL AIR INTAKES AND ANY EXHAUST TERMINATIONS, GAS FLUES, OR PLUMBING VENTS.
12.	THE LAST 10'-0" OF DRYER, KITCHEN AND BATH EXHAUST SHALL BE SLOPED AT 1/8" PER FOOT TO EXTERIOR WALL CAP.
13.	ROUTE TOILET EXHAUST AND DRYER DUCTWORK THROUGH OPEN WEB STRUCTURE.
14.	BEDROOM DOORS SHALL BE UNDERCUT (BY OTHERS) FOR RETURN AIR PATH.

KEYED NOTES (APPLIES TO THIS SHEET ONLY)	
①	ROUTE #2 DRYER EXHAUST VENT UP FROM DRYER VENT BOX INTO STRUCTURE. ROUTE 4" DRYER EXHAUST DUCT WITHIN STRUCTURE TO EXTERIOR WALL CAP OR SOFFIT VENT. COORDINATE WITH ARCHITECT EXTERIOR WALL LOUVER LOCATION.
②	#2 BATH EXHAUST ROUTED TO EXTERIOR WALL CAP. COORDINATE WITH ARCHITECT. EXTERIOR WALL LOUVER LOCATION.
③	RANGE HOODS ARE VENTED TO EXTERIOR FOR ALL RANGE HOOD EQUIPMENT IS PROVIDED BY OTHERS.
④	ROUTE PRIMARY 3/4" CONDENSATE TO NEAREST HUB DRAIN IN HVAC CLOSET. REFER TO PLUMBING FOR EXACT LOCATION. PROVIDE FLOAT SAFE-T SWITCH FOR SECONDARY CONDENSATE
⑤	LAUNDRY DRYER MAKE UP AIR THROUGH TRANSFER DUCT (2) TYPE E 18x10 TRANSFER GRILLES LOCATED ON EACH SIDE OF WALL. 1" UNDERCUT FOR DRYER MAKEUP AIR TO ALLOW 120 SQ. INCHES OF FREE AREA.
⑥	DRYER VENT BOX. REFER TO MECHANICAL DETAILS ON M03.
⑦	ELECTRICAL PANELS SHOWN FOR REFERENCE. REFER TO ELECTRICAL DRAWINGS. CONTRACTOR TO AVOID ANY DUCTWORK OVER ELECTRICAL PANEL.
⑧	ROUTE 12x12 SA DUCT UP INTO STRUCTURE WITH CRD DAMPER AT CEILING PENETRATION. PROVIDE ACCESS PANEL IN CEILING AND PLENUM BOX TO SERVICE DAMPER.
⑨	PROVIDE TRANSFER OPENING ABOVE FURDOWN CEILING WITH 2.0 SQUARE FEET FREE AREA MINIMUM
⑩	BEDROOM HI-LOW TRANSFER THROUGH TRANSFER DUCT WITH 18x10 TYPE E GRILLES ON EACH SIDE OF WALL.
⑪	MANTAIN A MINIMUM OF 10'-0" BETWEEN ALL MECHANICAL INTAKE AND ANY EXHAUST TERMINATIONS, GAS FLUES, OR PLUMBING VENTS.

FURDOWN LEGEND	
14" INSIDE CLEAR PLENUM RATED FURDOWN: BOX OUT OPENINGS WITH DRYWALL TO MAINTAIN FIRE RATING. REFER TO IMC SECTION 602.2.1. (BY OTHERS)	
NON-RATED ARCHITECTURAL 14" CLEAR FURDOWN. REFER TO ARCHITECTURAL PLANS.	

DUCTWORK LEGEND:	
FLEX DUCTWORK LOCATED WITHIN PLENUM.	
FLEX DUCTWORK LOCATED WITHIN TRUSSES.	

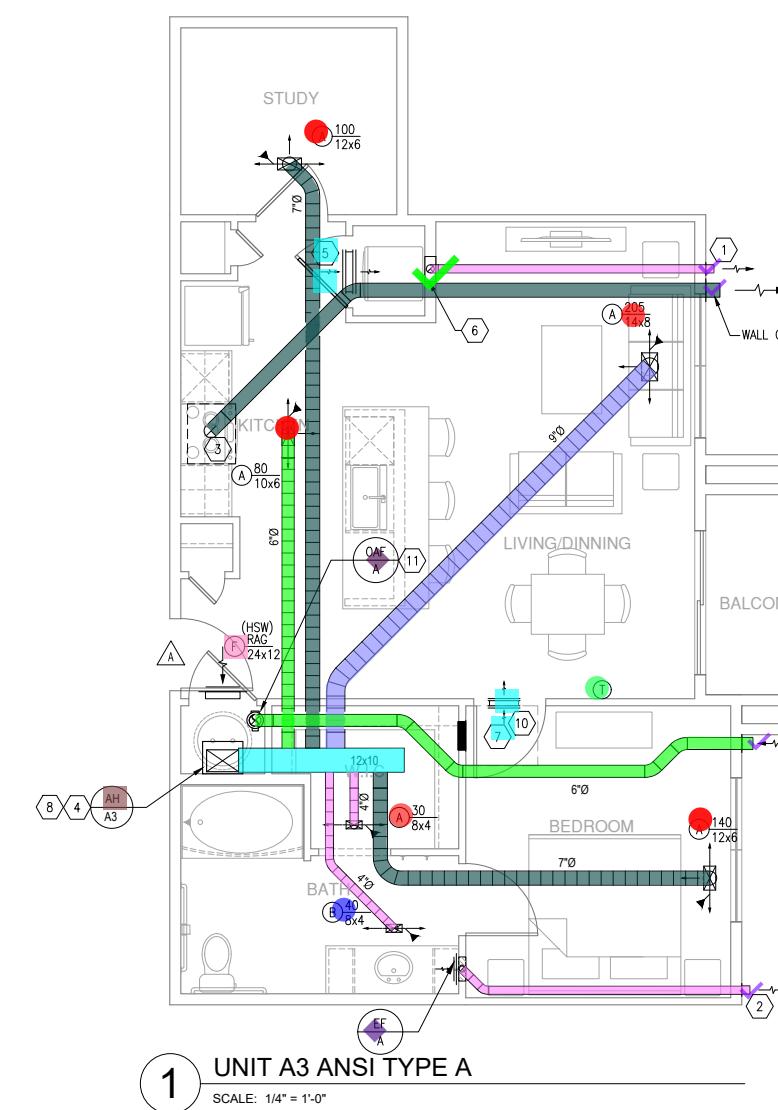
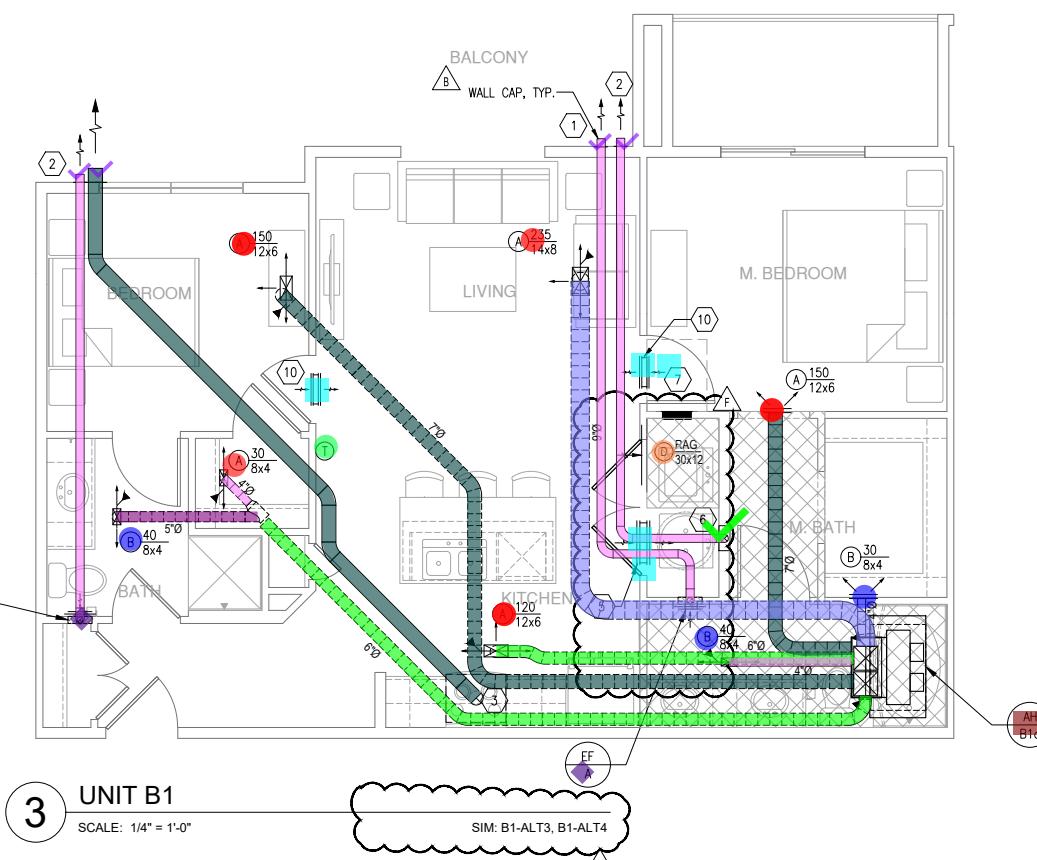
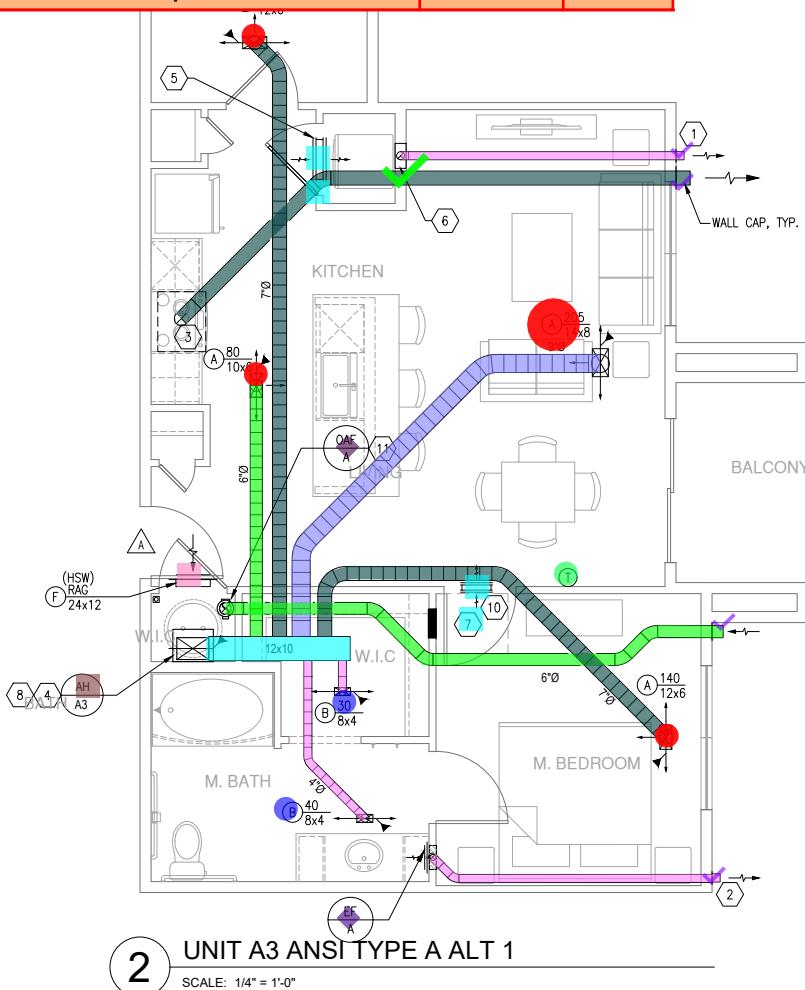
SHEET NUMBER

M3.02

ISSUED FOR CONSTRUCTION

### Legend

Description	Quantity	Unit
4" Dia. Duct	257.06	ft
5" Dia. Duct	5.87	ft
6" Dia. Duct	111.61	ft
7" Dia. Duct	296.31	ft
9" Dia. Duct	85.99	ft
12X10 Duct	12.91	ft
14X10 Duct	5.25	ft
A - Stamped Supply Register	19	Count
AH/A3 - Split System Cooling Units	2	Count
AH/B1a - Split System Cooling Units	2	Count
B - Stamped Supply Register	9	Count
D - Stamped Return Grille	1	Count
Dryer Vent Box	4	Count
E - Grille	18	Count
EF- A - Exhaust Fan	7	Count
F - 35 Degree Fixed Blade Return Grille	3	Count
OAF - A - Exhaust Fan	2	Count
Thermostat	4	Count
Wall Cap	15	Count



**GENERAL NOTES: (APPLY TO THIS SHEET ONLY)**

- MECHANICAL CONTRACTOR SHALL COORDINATE WASHER BOX, ELECTRICAL RECEPTACLE, DRYER VENT BOX, ETC. BEHIND WASHER/DRYERS WITH PLUMBING AND ELECTRICAL DISCIPLINES PRIOR TO CONSTRUCTION.
- COORDINATE ALL WALL CAP AND SOFFIT VENT LOCATIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- CONTRACTOR SHALL COORDINATE DUCTWORK ROUTING THROUGH 18-INCH DEEP OPEN WEB STRUCTURE AND ATTIC SPACE TO AVOID STRUCTURAL AND ARCHITECTURAL CONFLICTS.
- ALL WALL CAPS AND SOFFIT VENTS SHALL HAVE BACKDRAFT DAMPERS. TOILET EXHAUST SHALL INCLUDE INSECT SCREEN.
- GENERAL CONTRACTOR SHALL COORDINATE STRUCTURAL WOOD TRUSSES INSTALLED ABOVE VERTICAL AIR HANDLING UNITS TO AVOID HVAC AND STRUCTURAL CONFLICTS. HVAC WILL HAVE A SUPPLY DUCT/DISCHARGE PLENUM THAT MUST EXTEND BETWEEN OPEN WEB JOISTS/TRUSSES.
- MANTAIN A MINIMUM OF 3'-0" BETWEEN ALL OPERABLE BUILDING OPENINGS AND ANY EXHAUST TERMINATIONS, GAS FLUES, OR PLUMBING VENTS.
- MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCTWORK AND EQUIPMENT IN BATHROOMS WITH PLUMBING.
- COORDINATE ALL TOILET EXHAUST FANS WITH WALL CABINETS AND MEDICINE CABINETS. FANS LOCATED AT WALL ADJACENT TO TOILETS SHALL BE MOUNTED A MINIMUM OF 14-INCH AWAY FROM THE WALL THE TOILET IS MOUNTED TO AVOID CONFLICT WITH THE CABINET OVER THE TOILET.
- COORDINATE ALL T-STAT LOCATIONS WITH GENERAL CONTRACTOR AND OWNER PRIOR TO INSTALLATION. MOUNT T-STAT 8' FROM CORNER OR END OF WALL.
- CONTRACTOR TO ROUTE TOP LEVEL TOILET AND DRYER EXHAUSTS DOWN TO CEILING TRUSS SPACE OF BELOW FLOOR.
- MANTAIN A MINIMUM OF 10'-0" BETWEEN ALL MECHANICAL AIR INTAKES AND ANY EXHAUST TERMINATIONS, GAS FLUES, OR PLUMBING VENTS.
- THE LAST 10'-0" OF DRYER, KITCHEN AND BATH EXHAUST SHALL BE SLOPED AT 1/8" PER FOOT TO EXTERIOR WALL CAP.
- ROUTE TOILET EXHAUST AND DRYER DUCTWORK THROUGH OPEN WEB STRUCTURE.
- BEDROOM DOORS SHALL BE UNDERCUT (BY OTHERS) FOR RETURN AIR PATH.

**KEYED NOTES (APPLIES TO THIS SHEET ONLY)**

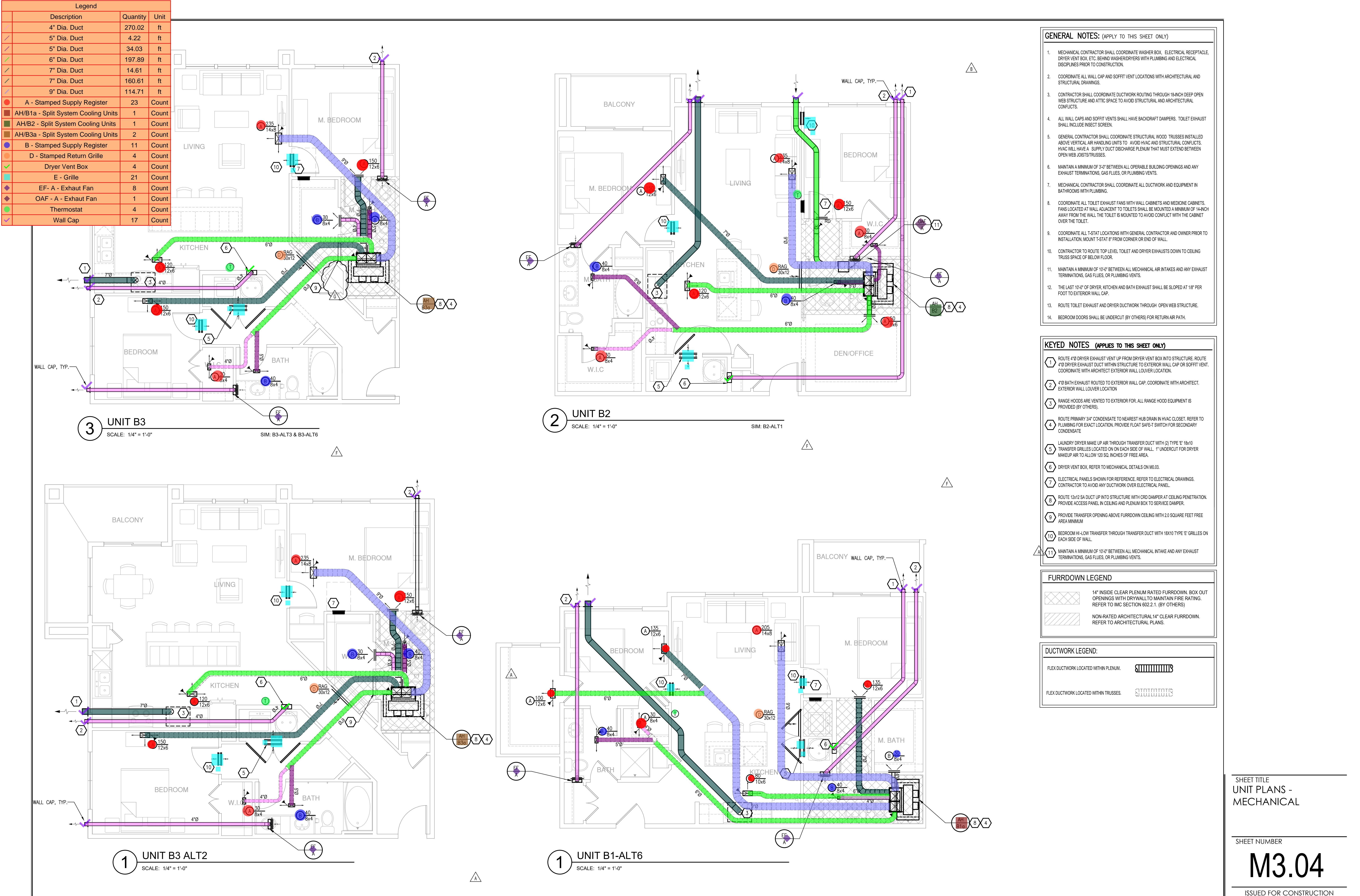
- ROUTE #1 DRYER EXHAUST VENT UP FROM DRYER VENT BOX INTO STRUCTURE, ROUTE #1 DRYER EXHAUST DUCT WITHIN STRUCTURE TO EXTERIOR WALL CAP OR SOFFIT VENT. COORDINATE WITH ARCHITECT EXTERIOR WALL LOUVER LOCATION.
- #1 BATH EXHAUST ROUTED TO EXTERIOR WALL CAP. COORDINATE WITH ARCHITECT. EXTERIOR WALL LOUVER LOCATION.
- RANGE HOODS ARE VENTED TO EXTERIOR FOR ALL RANGE HOOD EQUIPMENT IS PROVIDED BY OTHERS.
- ROUTE PRIMARY 3/4" CONDENSATE TO NEAREST HUB DRAIN IN HVAC CLOSET. REFER TO PLUMBING FOR EXACT LOCATION. PROVIDE FLOAT SAFE-T SWITCH FOR SECONDARY CONDENSATE.
- LAUNDRY DRYER MAKE UP AIR THROUGH TRANSFER DUCT WITH (2) TYPE 'E' 18x10 TRANSFER GRILLES LOCATED ON EACH SIDE OF WALL. 1" UNDERCUT FOR DRYER MAKEUP AIR TO ALLOW 120 SQ. INCHES OF FREE AREA.
- DRYER VENT BOX. REFER TO MECHANICAL DETAILS ON M03.
- ELECTRICAL PANELS SHOWN FOR REFERENCE. REFER TO ELECTRICAL DRAWINGS. CONTRACTOR TO AVOID ANY DUCTWORK OVER ELECTRICAL PANEL.
- ROUTE 12x12 SA DUCT UP INTO STRUCTURE WITH CRD DAMPER AT CEILING PENETRATION. PROVIDE ACCESS PANEL IN CEILING AND PLENUM BOX TO SERVICE DAMPER.
- PROVIDE TRANSFER OPENING ABOVE FURDOWN CEILING WITH 2.0 SQUARE FEET FREE AREA MINIMUM.
- BEDROOM H/L/W TRANSFER THROUGH TRANSFER DUCT WITH 18x10 TYPE 'E' GRILLES ON EACH SIDE OF WALL.
- MANTAIN A MINIMUM OF 10'-0" BETWEEN ALL MECHANICAL INTAKE AND ANY EXHAUST TERMINATIONS, GAS FLUES, OR PLUMBING VENTS.

**FURDOWN LEGEND**

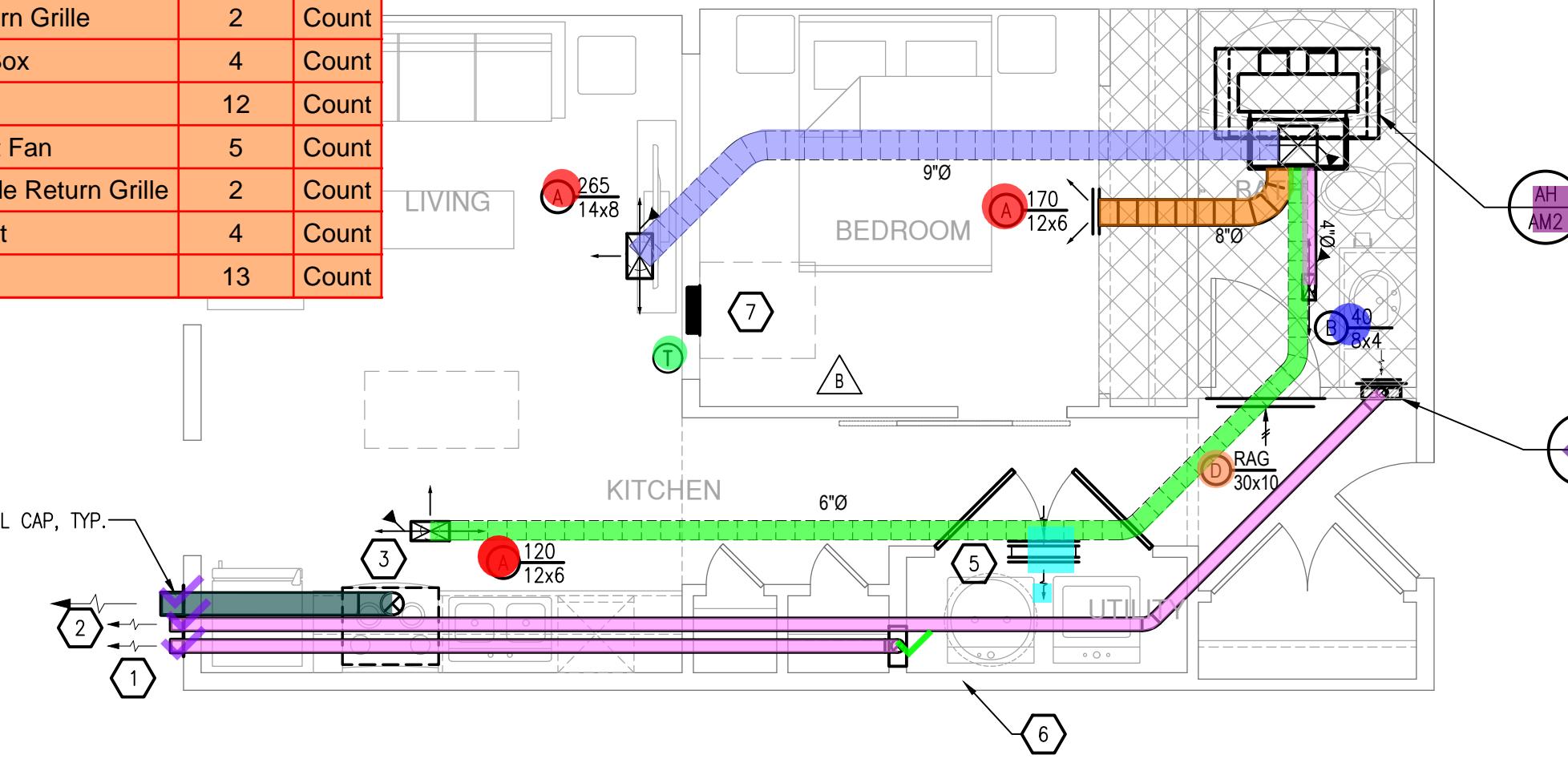
	14" INSIDE CLEAR PLENUM RATED FURDOWN. BOX OUT OPENINGS WITH DRYWALL TO MAINTAIN FIRE RATING. REFER TO IMC SECTION 602.2.1. (BY OTHERS)
	NON-RATED ARCHITECTURAL 14" CLEAR FURDOWN. REFER TO ARCHITECTURAL PLANS.

**DUCTWORK LEGEND:**

	Flex Ductwork Located Within Plenum.
	Flex Ductwork Located Within Trusses.

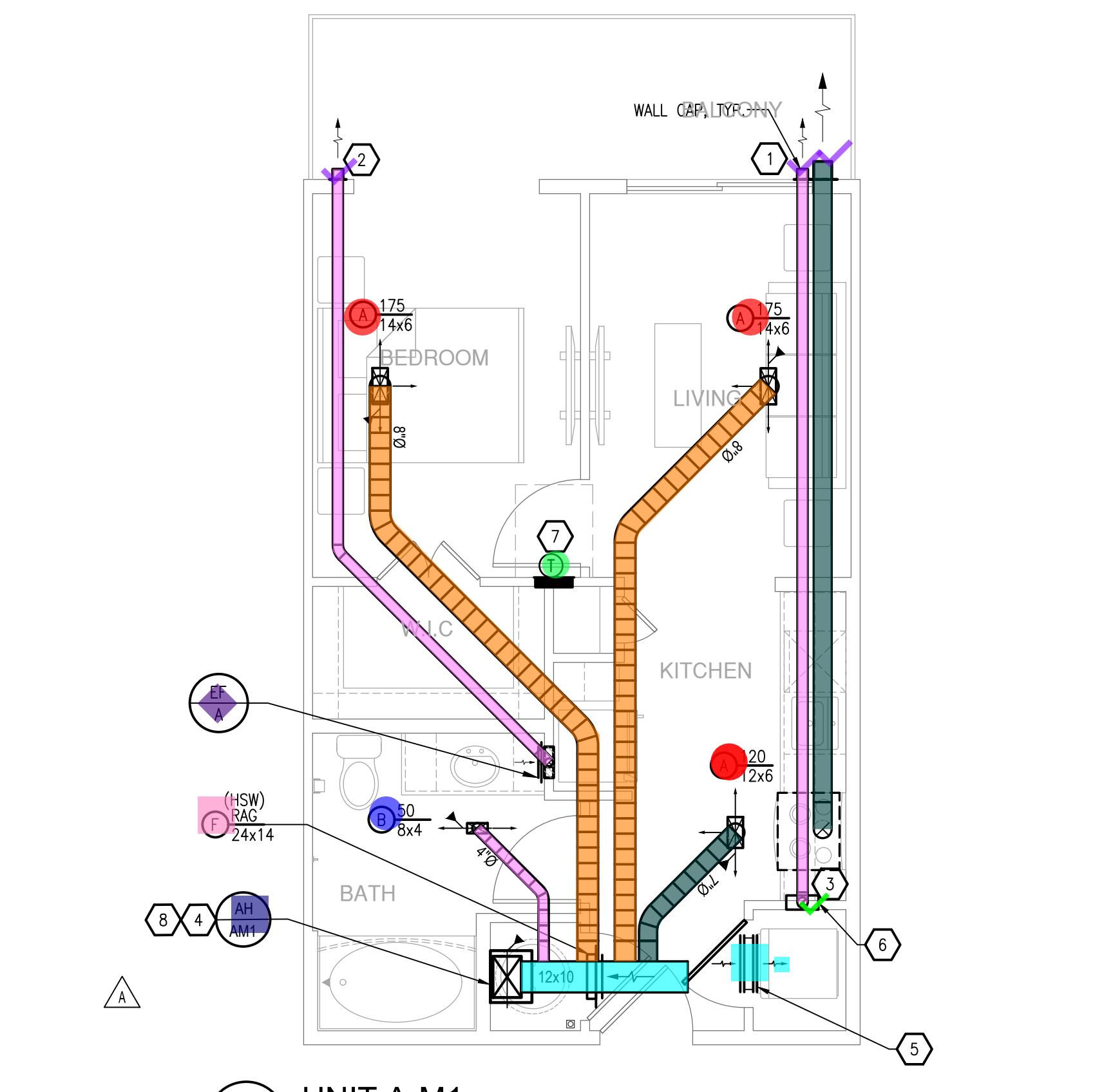


Legend		
Description	Quantity	Unit
4" Dia. Duct	230.83	ft
5" Dia. Duct	7.16	ft
6" Dia. Duct	68.18	ft
7" Dia. Duct	110.06	ft
8" Dia. Duct	89.07	ft
9" Dia. Duct	42.81	ft
12X10 Duct	10.76	ft
A - Stamped Supply Register	14	Count
AH/AM1 - Split System Cooling Units	2	Count
AH/AM2 - Split System Cooling Units	1	Count
AH/B3a - Split System Cooling Units	1	Count
B - Stamped Supply Register	6	Count
D - Stamped Return Grille	2	Count
Dryer Vent Box	4	Count
E - Grille	12	Count
EF - A - Exhaust Fan	5	Count
F - 35 Degree Fixed Blade Return Grille	2	Count
Thermostat	4	Count
Wall Cap	13	Count

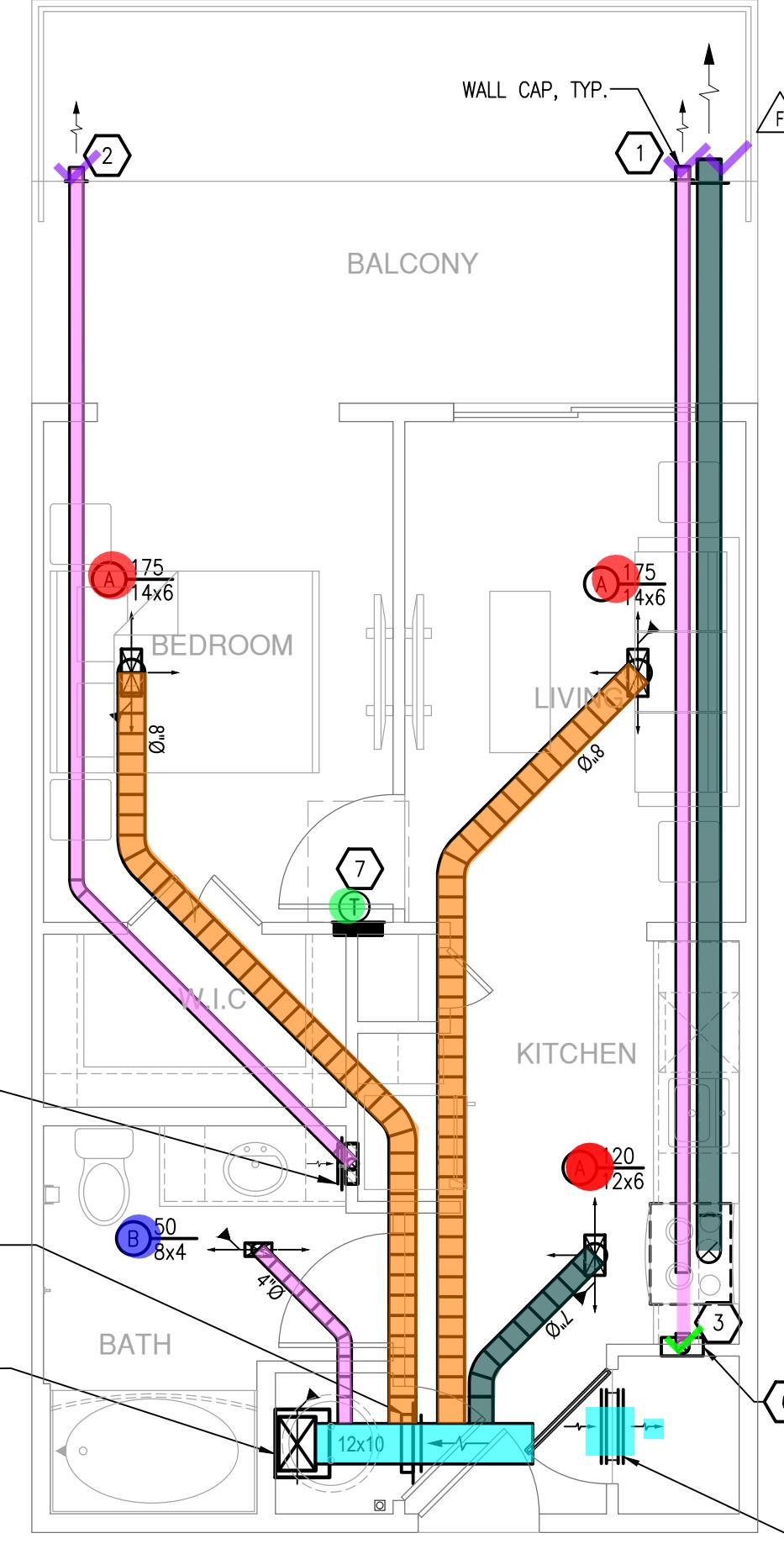


4 UNIT A-M2  
SCALE: 1/4" = 1'-0"

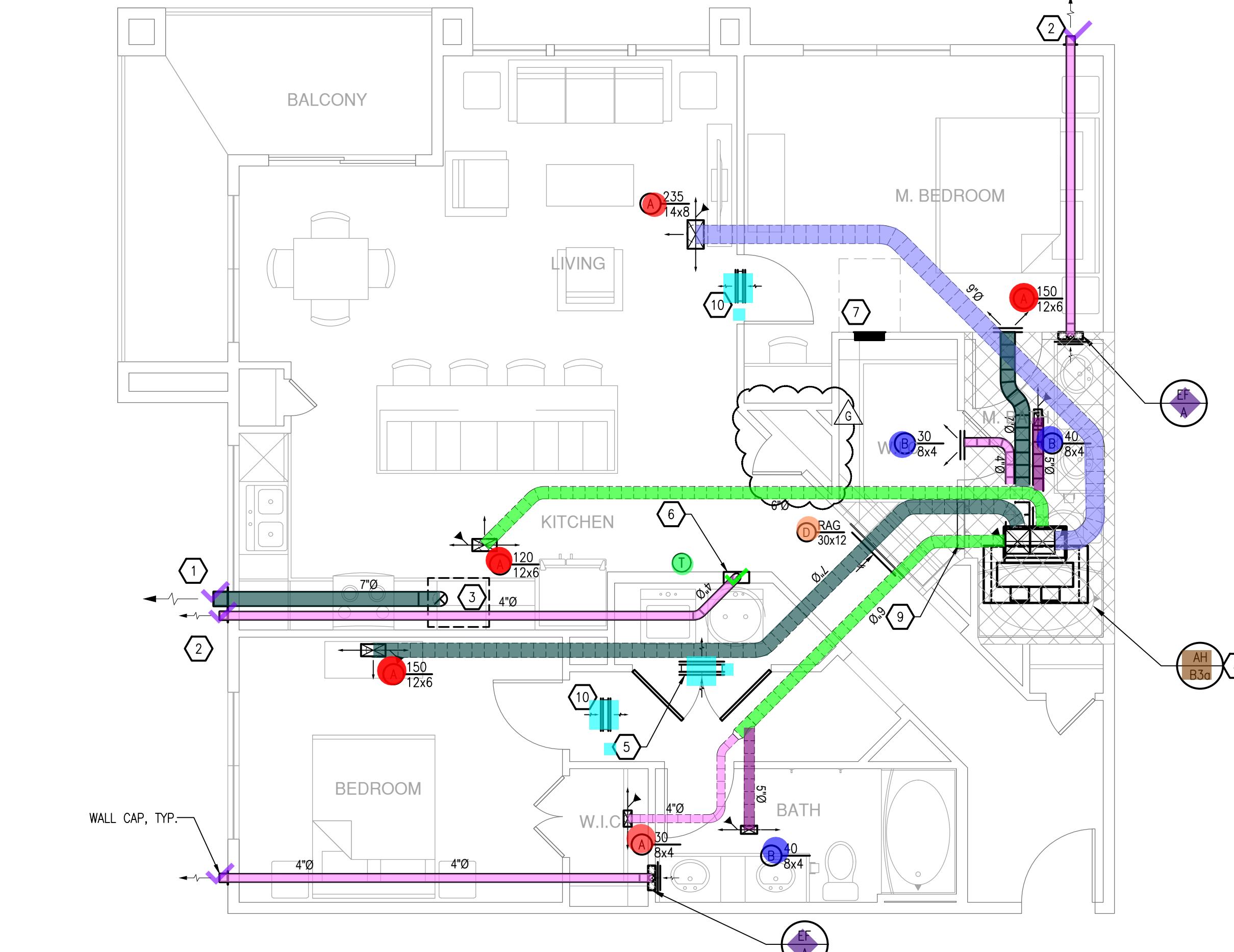
SIM: A-M2-ALT1



2 UNIT A-M1  
SCALE: 1/4" = 1'-0"



3 UNIT A-M1-ALT1  
SCALE: 1/4" = 1'-0"

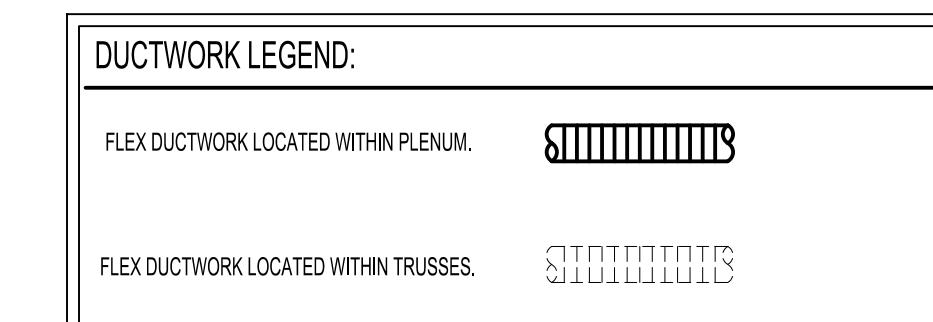
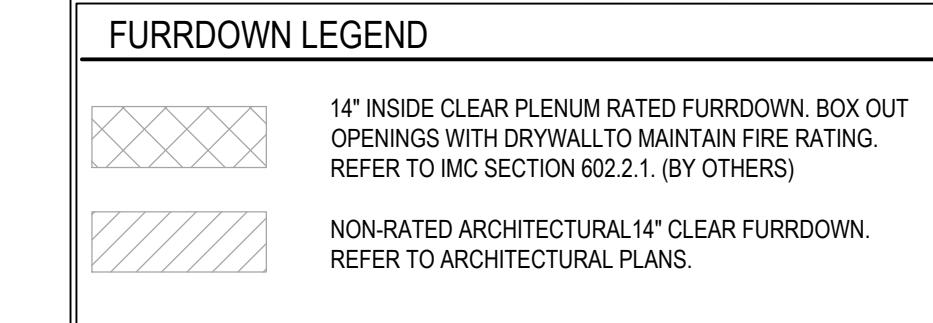


1 UNIT B3-ALT1  
SCALE: 1/4" = 1'-0"

SIM: B3-ALT4 & B3-ALT5

- GENERAL NOTES: (APPLY TO THIS SHEET ONLY)**
- MECHANICAL CONTRACTOR SHALL COORDINATE WASHER BOX, ELECTRICAL RECEPTACLE, DRYER VENT BOX, ETC. BEHIND WASHER/DRYERS WITH PLUMBING AND ELECTRICAL DISCIPLINES PRIOR TO CONSTRUCTION.
  - COORDINATE ALL WALL CAP AND SOFFIT VENT LOCATIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
  - CONTRACTOR SHALL COORDINATE DUCTWORK ROUTING THROUGH 18-INCH DEEP OPEN WEB STRUCTURE AND ATTIC SPACE TO AVOID STRUCTURAL AND ARCHITECTURAL CONFLICTS.
  - ALL WALL CAPS AND SOFFIT VENTS SHALL HAVE BACKDRAFT DAMPERS. TOILET EXHAUST SHALL INCLUDE INSECT SCREEN.
  - GENERAL CONTRACTOR SHALL COORDINATE STRUCTURAL WOOD TRUSSES INSTALLED ABOVE VERTICAL AIR HANDLING UNITS TO AVOID HVAC AND STRUCTURAL CONFLICTS. HVAC WILL HAVE A SUPPLY DUCT DISCHARGE PLENUM THAT MUST EXTEND BETWEEN OPEN WEB JOISTS/TRUSSES.
  - MANTAIN A MINIMUM OF 3'-0" BETWEEN ALL OPERABLE BUILDING OPENINGS AND ANY EXHAUST TERMINATIONS, GAS FLUES, OR PLUMBING VENTS.
  - MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCTWORK AND EQUIPMENT IN BATHROOMS WITH PLUMBING.
  - COORDINATE ALL TOILET EXHAUST FANS WITH WALL CABINETS AND MEDICINE CABINETS. FANS LOCATED AT WALL ADJACENT TO TOILETS SHALL BE MOUNTED A MINIMUM OF 14-INCH AWAY FROM THE WALL THE TOILET IS MOUNTED TO AVOID CONFLICT WITH THE CABINET OVER THE TOILET.
  - COORDINATE ALL T-STAT LOCATIONS WITH GENERAL CONTRACTOR AND OWNER PRIOR TO INSTALLATION. MOUNT T-STAT 8' FROM CORNER OR END OF WALL.
  - CONTRACTOR TO ROUTE TOP LEVEL TOILET AND DRYER EXHAUSTS DOWN TO CEILING TRUSS SPACE OF BELOW FLOOR.
  - MANTAIN A MINIMUM OF 10'-0" BETWEEN ALL MECHANICAL AIR INTAKES AND ANY EXHAUST TERMINATIONS, GAS FLUES, OR PLUMBING VENTS.
  - THE LAST 10'-0" OF DRYER, KITCHEN AND BATH EXHAUST SHALL BE SLOPED AT 1/8" PER FOOT TO EXTERIOR WALL CAP.
  - ROUTE TOILET EXHAUST AND DRYER DUCTWORK THROUGH OPEN WEB STRUCTURE.
  - BEDROOM DOORS SHALL BE UNDERCUT (BY OTHERS) FOR RETURN AIR PATH.

- KEYED NOTES (APPLIES TO THIS SHEET ONLY)**
- ① ROUTE #19 DRYER EXHAUST VENT UP FROM DRYER VENT BOX INTO STRUCTURE. ROUTE #19 DRYER EXHAUST DUCT WITHIN STRUCTURE TO EXTERIOR WALL CAP OR SOFFIT VENT. COORDINATE WITH ARCHITECT EXTERIOR WALL LOUVER LOCATION.
  - ② #19 BATH EXHAUST ROUTED TO EXTERIOR WALL CAP. COORDINATE WITH ARCHITECT. EXTERIOR WALL LOUVER LOCATION.
  - ③ RANGE HOODS ARE VENTED TO EXTERIOR FOR ALL RANGE HOOD EQUIPMENT IS PROVIDED BY OTHERS.
  - ④ ROUTE PRIMARY 3/4" CONDENSATE TO NEAREST HUB DRAIN IN HVAC CLOSET. REFER TO PLUMBING FOR EXACT LOCATION. PROVIDE FLOAT SAFE-T SWITCH FOR SECONDARY CONDENSATE.
  - ⑤ LAUNDRY DRYER MAKE UP AIR THROUGH TRANSFER DUCT WITH (2) TYPE 'E' 18x10 GRILLE LOCATED ON EACH SIDE OF WALL. 1" UNDERCUT FOR DRYER MAKEUP AIR TO ALLOW 120 SQ. INCHES OF FREE AREA.
  - ⑥ DRYER VENT BOX. REFER TO MECHANICAL DETAILS ON M.03.
  - ⑦ ELECTRICAL PANELS SHOWN FOR REFERENCE. REFER TO ELECTRICAL DRAWINGS. CONTRACTOR TO AVOID ANY DUCTWORK OVER ELECTRICAL PANEL.
  - ⑧ ROUTE 12x12 SA DUCT UP INTO STRUCTURE WITH CRD DAMPER AT CEILING PENETRATION. PROVIDE ACCESS PANEL IN CEILING AND PLENUM BOX TO SERVICE DAMPER.
  - ⑨ PROVIDE TRANSFER OPENING ABOVE FURDOWN CEILING WITH 2.0 SQUARE FEET FREE AREA MINIMUM.
  - ⑩ BEDROOM HI-L/LOW TRANSFER THROUGH TRANSFER DUCT WITH 18x10 TYPE 'E' GRILLES ON EACH SIDE OF WALL.



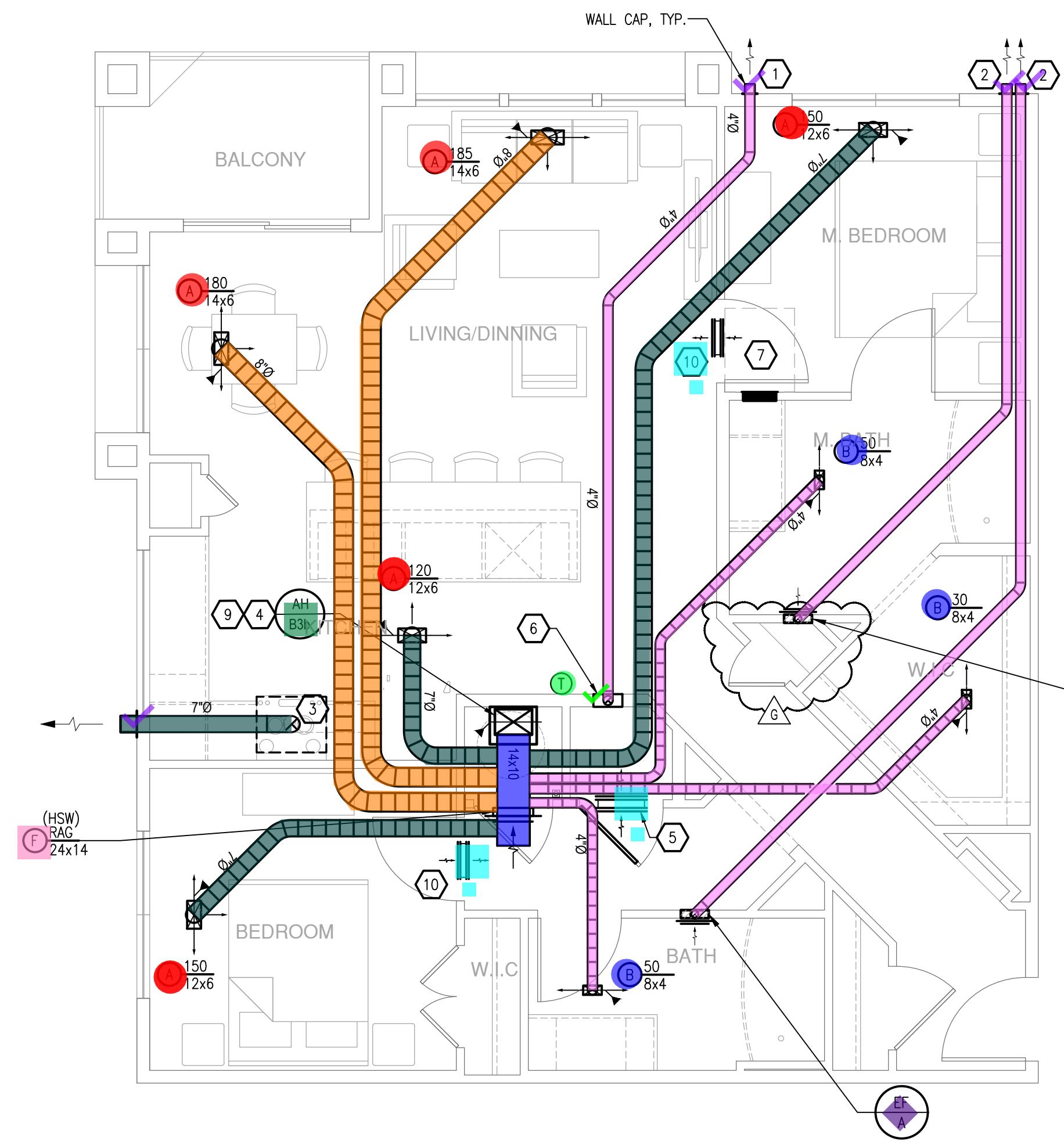
SHEET TITLE  
UNIT PLANS -  
MECHANICAL

SHEET NUMBER

M3.05

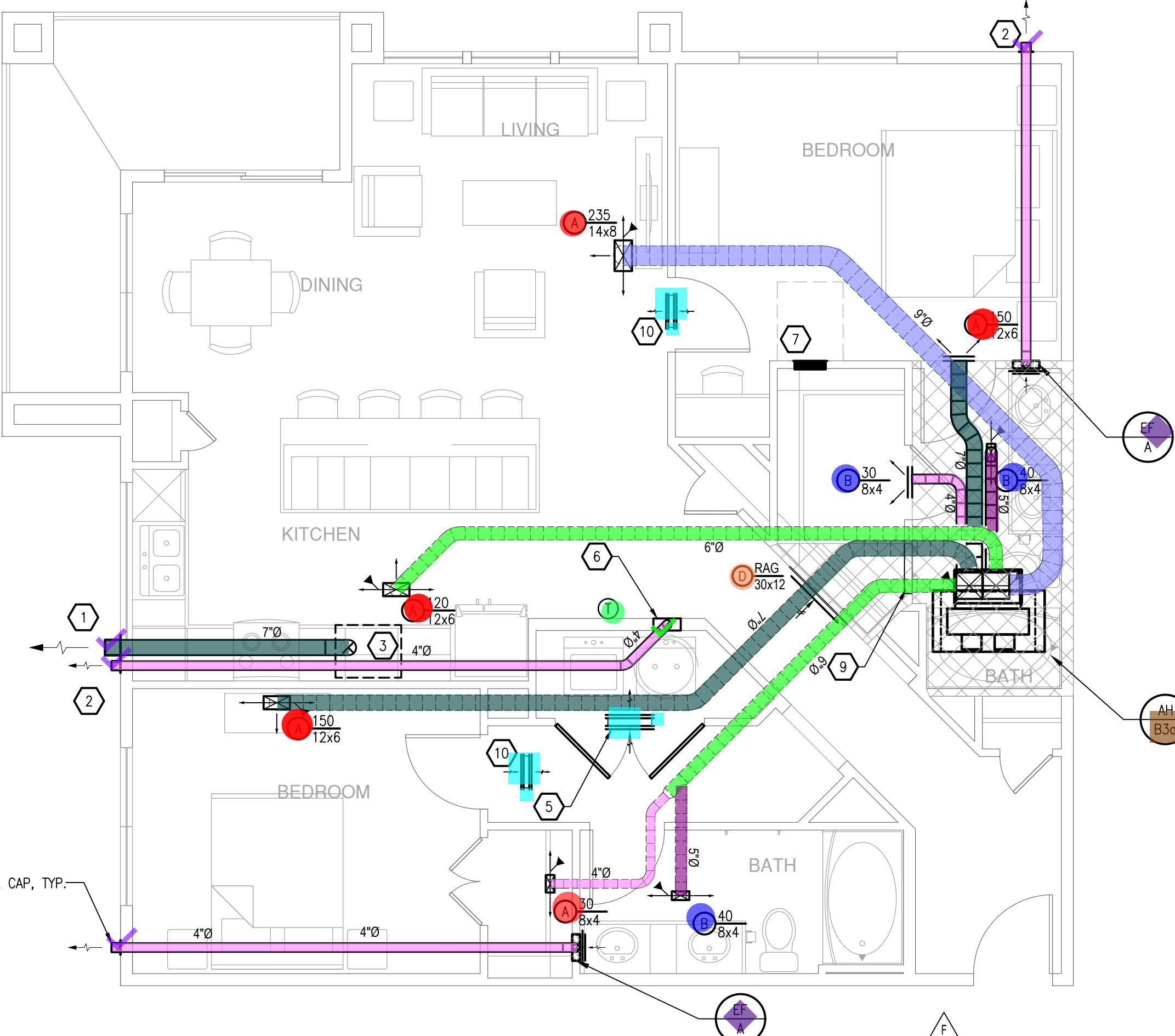
ISSUED FOR CONSTRUCTION

Legend		
Description	Quantity	Unit
4" Dia. Duct	237.31	ft
5" Dia. Duct	7.16	ft
6" Dia. Duct	38.79	ft
7" Dia. Duct	126.62	ft
8" Dia. Duct	94.63	ft
9" Dia. Duct	25.05	ft
12X10 Duct	5.38	ft
14X10 Duct	3.98	ft
<span style="color:red;">●</span> A - Stamped Supply Register	13	Count
<span style="color:blue;">■</span> AH/AM3 - Split System Cooling Units	1	Count
<span style="color:brown;">■</span> AH/B3a - Split System Cooling Units	1	Count
<span style="color:green;">■</span> AH/B3b - Split System Cooling Units	1	Count
<span style="color:blue;">●</span> B - Stamped Supply Register	7	Count
<span style="color:orange;">●</span> D - Stamped Return Grille	1	Count
<span style="color:green;">✓</span> Dryer Vent Box	3	Count
<span style="color:cyan;">■</span> E - Grille	14	Count
<span style="color:purple;">◆</span> EF- A - Exhaust Fan	5	Count
<span style="color:pink;">■</span> F - 35 Degree Fixed Blade Return Grille	2	Count
<span style="color:green;">●</span> Thermostat	3	Count
<span style="color:purple;">✓</span> Wall Cap	11	Count



3 UNIT B3 ANSI TYPE A  
SCALE: 1/4" = 1'-0"

SIM: B3 ANSI TYPE A-ALT1

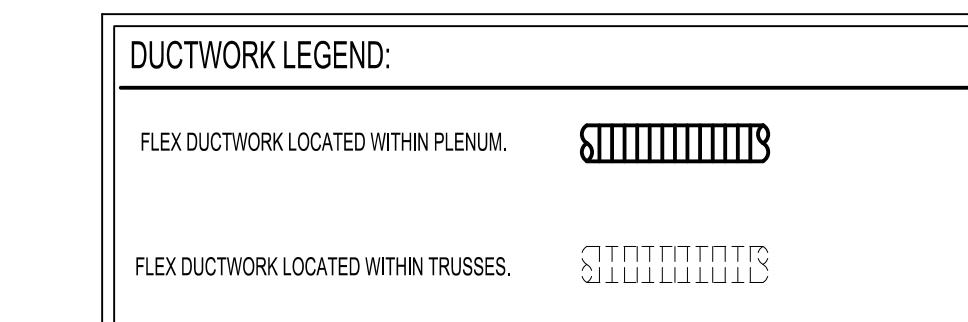
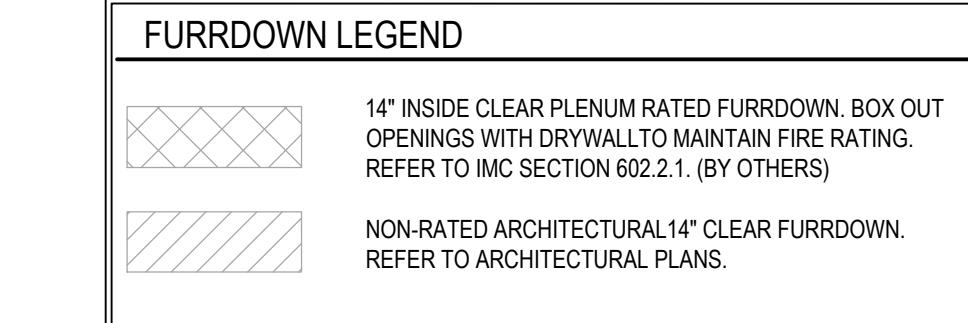


2 UNIT B3 ALT-1 UNDER ROOF GARDEN  
SCALE: 1/4" = 1'-0"

1 UNIT A-M3  
SCALE: 1/4" = 1'-0"

- GENERAL NOTES: (APPLY TO THIS SHEET ONLY)**
- MECHANICAL CONTRACTOR SHALL COORDINATE WASHER BOX, ELECTRICAL RECEPTACLE, DRYER VENT BOX, ETC. BEHIND WASHER/DRYERS WITH PLUMBING AND ELECTRICAL DISCIPLINES PRIOR TO CONSTRUCTION.
  - COORDINATE ALL WALL CAP AND SOFFIT VENT LOCATIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
  - CONTRACTOR SHALL COORDINATE DUCTWORK ROUTING THROUGH 18-INCH DEEP OPEN WEB STRUCTURE AND ATTIC SPACE TO AVOID STRUCTURAL AND ARCHITECTURAL CONFLICTS.
  - ALL WALL CAPS AND SOFFIT VENTS SHALL HAVE BACKDRAFT DAMPERS. TOILET EXHAUST SHALL INCLUDE INSECT SCREEN.
  - GENERAL CONTRACTOR SHALL COORDINATE STRUCTURAL WOOD TRUSSES INSTALLED ABOVE VERTICAL AIR HANDLING UNITS TO AVOID HVAC AND STRUCTURAL CONFLICTS. HVAC WILL HAVE A SUPPLY DUCT DISCHARGE PLENUM THAT MUST EXTEND BETWEEN OPEN WEB JOISTS/TRUSSES.
  - MANTAIN A MINIMUM OF 3'-0" BETWEEN ALL OPERABLE BUILDING OPENINGS AND ANY EXHAUST TERMINATIONS, GAS FLUES, OR PLUMBING VENTS.
  - MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCTWORK AND EQUIPMENT IN BATHROOMS WITH PLUMBING.
  - COORDINATE ALL TOILET EXHAUST FANS WITH WALL CABINETS AND MEDICINE CABINETS. FANS LOCATED AT WALL ADJACENT TO TOILETS SHALL BE MOUNTED A MINIMUM OF 14-INCH AWAY FROM THE WALL THE TOILET IS MOUNTED TO AVOID CONFLICT WITH THE CABINET OVER THE TOILET.
  - COORDINATE ALL T-STAT LOCATIONS WITH GENERAL CONTRACTOR AND OWNER PRIOR TO INSTALLATION. MOUNT T-STAT 8' FROM CORNER OR END OF WALL.
  - CONTRACTOR TO ROUTE TOP LEVEL TOILET AND DRYER EXHAUSTS DOWN TO CEILING THRU SPACE OF BELOW FLOOR.
  - MANTAIN A MINIMUM OF 10'-0" BETWEEN ALL MECHANICAL AIR INTAKES AND ANY EXHAUST TERMINATIONS, GAS FLUES, OR PLUMBING VENTS.
  - THE LAST 10'-0" OF DRYER, KITCHEN AND BATH EXHAUST SHALL BE SLOPED AT 18" PER FOOT TO EXTERIOR WALL CAP.
  - ROUTE TOILET EXHAUST AND DRYER DUCTWORK THROUGH OPEN WEB STRUCTURE.
  - BEDROOM DOORS SHALL BE UNDERCUT (BY OTHERS) FOR RETURN AIR PATH.

- KEYED NOTES (APPLIES TO THIS SHEET ONLY)**
- ① ROUTE #1 DRYER EXHAUST VENT UP FROM DRYER VENT BOX INTO STRUCTURE. ROUTE 4" DRYER EXHAUST DUCT WITHIN STRUCTURE TO EXTERIOR WALL CAP OR SOFFIT VENT. COORDINATE WITH ARCHITECT EXTERIOR WALL LOUVER LOCATION.
  - ② 4" BATH EXHAUST ROUTED TO EXTERIOR WALL CAP. COORDINATE WITH ARCHITECT. EXTERIOR WALL LOUVER LOCATION.
  - ③ RANGE HOODS ARE VENTED TO EXTERIOR FOR ALL RANGE HOOD EQUIPMENT IS PROVIDED (BY OTHERS).
  - ④ ROUTE PRIMARY 3/4" CONDENSATE TO NEAREST HUB DRAIN IN HVAC CLOSET. REFER TO PLUMBING FOR EXACT LOCATION. PROVIDE FLOAT SAFE-T SWITCH FOR SECONDARY CONDENSATE.
  - ⑤ LAUNDRY DRYER MAKE UP AIR THROUGH TRANSFER DUCT WITH (2) TYPE 'E' 18x10 TRANSFER GRILLES LOCATED ON EACH SIDE OF WALL. 1" UNDERCUT FOR DRYER MAKEUP AIR TO ALLOW 120 SQ. INCHES OF FREE AREA.
  - ⑥ DRYER VENT BOX. REFER TO MECHANICAL DETAILS ON M.03.
  - ⑦ ELECTRICAL PANELS SHOWN FOR REFERENCE. REFER TO ELECTRICAL DRAWINGS. CONTRACTOR TO AVOID ANY DUCTWORK OVER ELECTRICAL PANEL.
  - ⑧ ROUTE 12X12 SA DUCT UP INTO STRUCTURE WITH CRD DAMPER AT CEILING PENETRATION. PROVIDE ACCESS PANEL IN CEILING AND PLENUM BOX TO SERVICE DAMPER.
  - ⑨ PROVIDE TRANSFER OPENING ABOVE FURDOWN CEILING WITH 2.0 SQUARE FEET FREE AREA MINIMUM.
  - ⑩ BEDROOM HI-LOW TRANSFER THROUGH TRANSFER DUCT WITH 18X10 TYPE 'E' GRILLES ON EACH SIDE OF WALL.



SHEET TITLE  
UNIT PLANS-  
MECHANICAL

SHEET NUMBER  
**M3.06**

ISSUED FOR CONSTRUCTION

**UNIT A-M3**  
CLOTHES DRYER VENT LENGTH CALCULATION - 4" DUCT

ELBOW TYPE	ELBOW DEGREES	ELBOW RADIUS (IN)	ELBOW EQUIVALENT LENGTH (FT)	QTY OF ELBOWS	TOTAL EQUIVALENT LENGTH (FT)
RADIUS MITERED	90	4	5'-0"	1	5'-0"
RADIUS MITERED	45	4	2'-6"	0	0'-0"
TOTAL EQUIVALENT LENGTH - FITTINGS:					
5'-0"					
TOTAL HORIZONTAL LENGTH:					
23'-1"					
TOTAL VERTICAL LENGTH:					
6'-0"					
TOTAL SYSTEM EQUIVALENT LENGTH:					
34'-1"					
[ X ]	DRYER - OWNER PROVIDED				
[ X ]	MAKE: AMANA				MODEL NO: NED4600Y
[ X ]	TOTAL MANUFACTURER'S ALLOWABLE LENGTH:				54'-0"
NOTE: CALCULATIONS ARE BASED ON THE 2012 IMC. THE DESIGN INCORPORATES A CLOTHES DRYER EXHAUST WALL RECEPTOR WHICH ELIMINATES THE REQUIREMENT FOR ONE 90 DEGREE ELBOW.					

**UNIT B3, B3 alt 3 & B3 alt 6**  
CLOTHES DRYER VENT LENGTH CALCULATION - 4" DUCT

ELBOW TYPE	ELBOW DEGREES	ELBOW RADIUS (IN)	ELBOW EQUIVALENT LENGTH (FT)	QTY OF ELBOWS	TOTAL EQUIVALENT LENGTH (FT)
RADIUS MITERED	90	4	5'-0"	1	5'-0"
RADIUS MITERED	45	4	2'-6"	1	2'-6"
TOTAL EQUIVALENT LENGTH - FITTINGS:					
5'-0"					
TOTAL HORIZONTAL LENGTH:					
23'-1"					
TOTAL VERTICAL LENGTH:					
6'-0"					
TOTAL SYSTEM EQUIVALENT LENGTH:					
32'-9"					
[ X ]	DRYER - OWNER PROVIDED				
[ X ]	MAKE: AMANA				MODEL NO: NED4600Y
[ X ]	TOTAL MANUFACTURER'S ALLOWABLE LENGTH:				54'-0"
NOTE: CALCULATIONS ARE BASED ON THE 2012 IMC. THE DESIGN INCORPORATES A CLOTHES DRYER EXHAUST WALL RECEPTOR WHICH ELIMINATES THE REQUIREMENT FOR ONE 90 DEGREE ELBOW.					

**UNIT A3 ANSI TYPE A & ANSI TYPE A alt 1**  
CLOTHES DRYER VENT LENGTH CALCULATION - 4" DUCT

ELBOW TYPE	ELBOW DEGREES	ELBOW RADIUS (IN)	ELBOW EQUIVALENT LENGTH (FT)	QTY OF ELBOWS	TOTAL EQUIVALENT LENGTH (FT)
RADIUS MITERED	90	4	5'-0"	1	5'-0"
RADIUS MITERED	45	4	2'-6"	0	0'-0"
TOTAL EQUIVALENT LENGTH - FITTINGS:					
5'-0"					
TOTAL HORIZONTAL LENGTH:					
11'-2"					
TOTAL VERTICAL LENGTH:					
6'-0"					
TOTAL SYSTEM EQUIVALENT LENGTH:					
22'-2"					
[ X ]	DRYER - OWNER PROVIDED				
[ X ]	MAKE: AMANA				MODEL NO: NED4600Y
[ X ]	TOTAL MANUFACTURER'S ALLOWABLE LENGTH:				54'-0"
NOTE: CALCULATIONS ARE BASED ON THE 2012 IMC. THE DESIGN INCORPORATES A CLOTHES DRYER EXHAUST WALL RECEPTOR WHICH ELIMINATES THE REQUIREMENT FOR ONE 90 DEGREE ELBOW.					

**UNIT A-M2**  
CLOTHES DRYER VENT LENGTH CALCULATION - 4" DUCT

ELBOW TYPE	ELBOW DEGREES	ELBOW RADIUS (IN)	ELBOW EQUIVALENT LENGTH (FT)	QTY OF ELBOWS	TOTAL EQUIVALENT LENGTH (FT)
RADIUS MITERED	90	4	5'-0"	1	5'-0"
RADIUS MITERED	45	4	2'-6"	0	0'-0"
TOTAL EQUIVALENT LENGTH - FITTINGS:					
5'-0"					
TOTAL HORIZONTAL LENGTH:					
18'-5"					
TOTAL VERTICAL LENGTH:					
8'-0"					
TOTAL SYSTEM EQUIVALENT LENGTH:					
31'-5"					
[ X ]	DRYER - OWNER PROVIDED				
[ X ]	MAKE: AMANA				MODEL NO: NED4600Y
[ X ]	TOTAL MANUFACTURER'S ALLOWABLE LENGTH:				54'-0"
NOTE: CALCULATIONS ARE BASED ON THE 2012 IMC. THE DESIGN INCORPORATES A CLOTHES DRYER EXHAUST WALL RECEPTOR WHICH ELIMINATES THE REQUIREMENT FOR ONE 90 DEGREE ELBOW.					

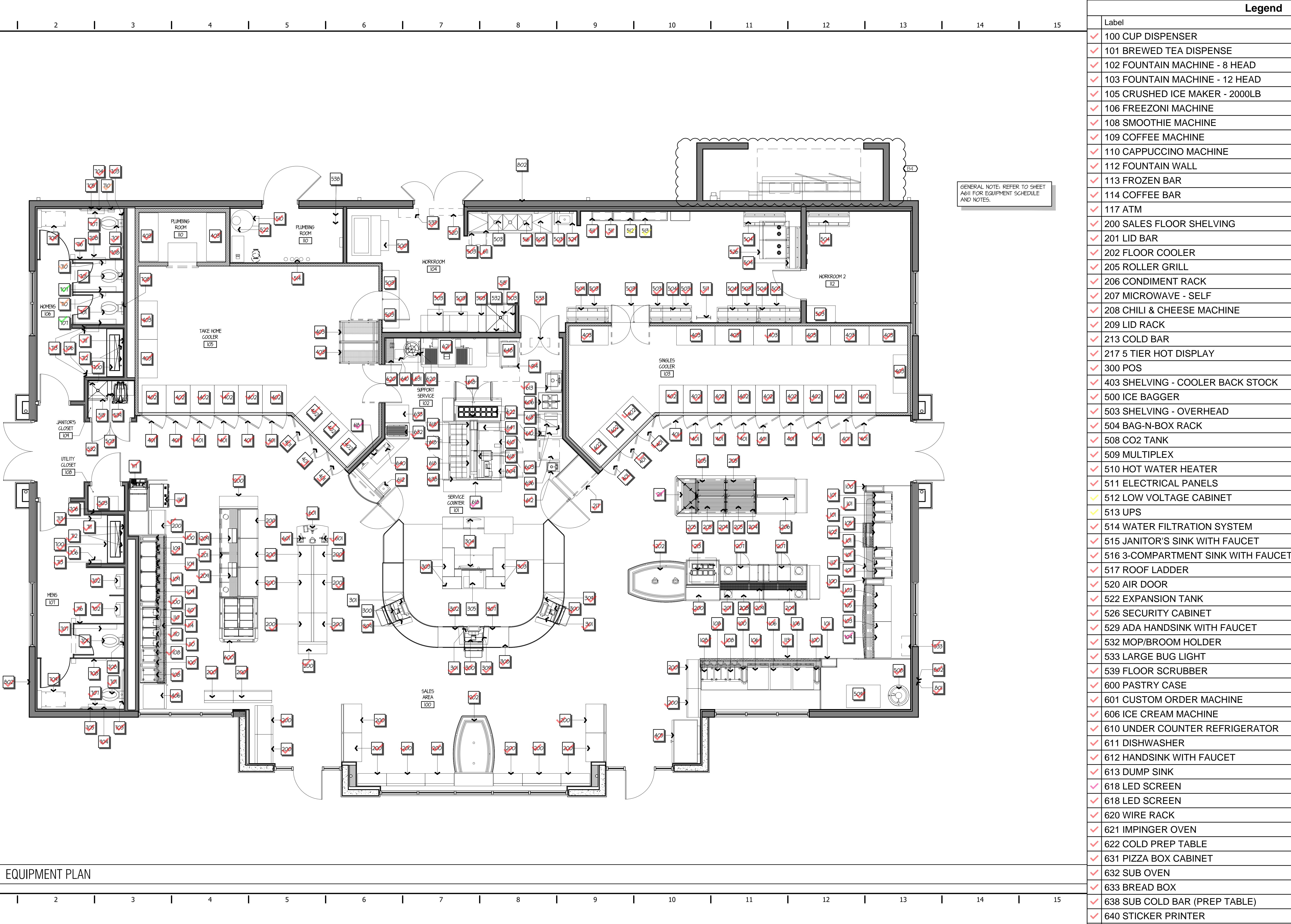
**UNIT B3 - alt 1, B3 - alt 2, B3- alt 4, B3 - alt 5**  
CLOTHES DRYER VENT LENGTH CALCULATION - 4" DUCT

ELBOW TYPE	ELBOW DEGREES	ELBOW RADIUS (IN)	ELBOW EQUIVALENT LENGTH (FT)	QTY OF ELBOWS	TOTAL EQUIVALENT LENGTH (FT)
RADIUS MITERED	90	4	5'-0"	1	5'-0"
RADIUS MITERED	45	4	2'-6"	1	2'-6"
TOTAL EQUIVALENT LENGTH - FITTINGS:					
7'-6"					
TOTAL HORIZONTAL LENGTH:					
21'-1"					
TOTAL VERTICAL LENGTH:					
8'-0"					
TOTAL SYSTEM EQUIVALENT LENGTH:					
36'-7"					
[ X ]	DRYER - OWNER PROVIDED				
[ X ]	MAKE: AMANA				MODEL NO: NED4600Y
[ X ]	TOTAL MANUFACTURER'S ALLOWABLE LENGTH:				54'-0"
NOTE: CALCULATIONS ARE BASED ON THE 2012 IMC. THE DESIGN INCORPORATES A CLOTHES DRYER EXHAUST WALL RECEPTOR WHICH ELIMINATES THE REQUIREMENT FOR ONE 90 DEGREE ELBOW.					

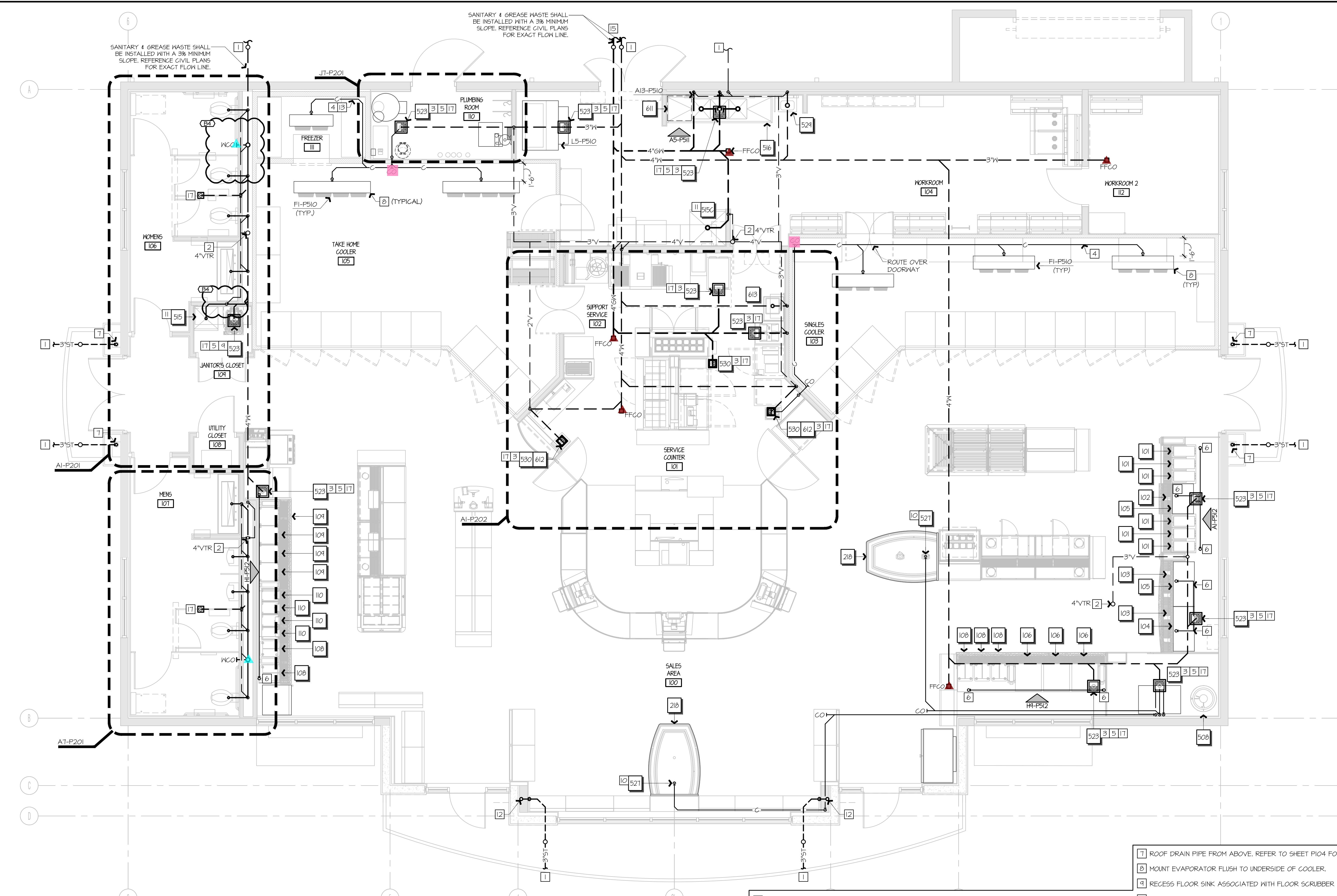
**UNIT A3, A3 alt 1, A3 alt 2**  
CLOTHES DRYER VENT LENGTH CALCULATION - 4" DUCT

ELBOW TYPE	ELBOW DEGREES	ELBOW RADIUS (IN)	ELBOW EQUIVALENT LENGTH (FT)	QTY OF ELBOWS	TOTAL EQUIVALENT LENGTH (FT)
RADIUS MITERED	90	4	5'-0"	1	5'-0"
RADIUS MITERED	45	4	2'-6"	0	0'-0"
TOTAL EQUIVALENT LENGTH - FITTINGS:					
5'-0"					
TOTAL HORIZONTAL LENGTH:					
11'-2"					
TOTAL VERTICAL LENGTH:					
6'-0"					
TOTAL SYSTEM EQUIVALENT LENGTH:					
22'-2"					
[ X ]	DRYER - OWNER PROVIDED				
[ X ]	MAKE: AMANA				MODEL NO: NED4600Y
[ X ]	TOTAL MANUFACTURER'S ALLOWABLE LENGTH:				54'-0"
NOTE: CALCULATIONS ARE BASED ON THE 2012 IMC. THE DESIGN INCORPORATES A CLOTHES DRYER EXHAUST WALL RECEPTOR WHICH ELIMINATES THE REQUIRE					

## Legend



Legend			
	Label	Quantity	Unit
	Cleanout	2	Count
	Flush Floor Cleanout	5	Count
	WCO - Wall Cleanout	2	Count

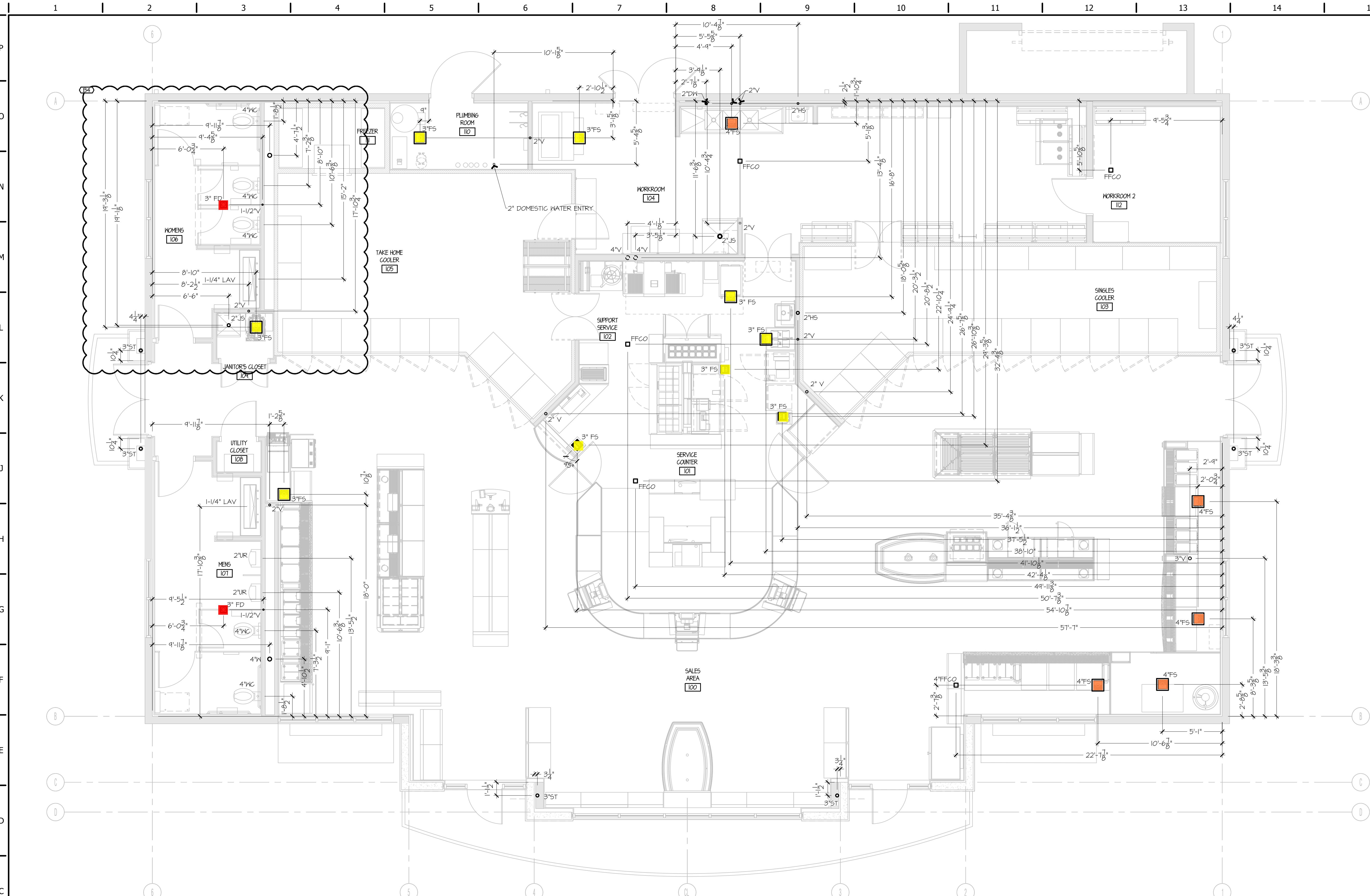


- 1 STUB OUT 5'-0" OUTSIDE BUILDING. REFER TO CIVIL DRAWINGS FOR CONTINUATION. MAKE NECESSARY CONNECTIONS AS REQUIRED. EXTEND WASTE PIPING BELOW FLOOR TO FIXTURES AS SHOWN ON PLAN AND/OR AS REQUIRED BY LOCAL AUTHORITIES.
  - 2 PROVIDE VENT THRU ROOF IN THIS VICINITY PER "VENT THROUGH ROOF" DETAIL L13-P5II. OFFSET VENT IN PLENUM ABOVE IF NECESSARY AS SHOWN ON P50I. EXTEND VENT PIPE, SUSPENDED FROM STRUCTURE ABOVE CEILING, AND DOWN IN PARTITIONS TO SERVE FIXTURES, SIZE INDICATED.
  - 3 INDIRECT DRAIN: DISCHARGE DRAINS INTO FLOOR RECEPTOR WITH AIR GAP OF TWICE THE PIPE DIAMETER. REFER TO DETAIL L5-P5II.
  - 4 1" CONDENSATE DRAINAGE PIPING PVC FOR COOLERS, COPPER FOR FREEZER. SECURE TO WALL WITH SPACING TYPE BRACKETS.
  - 5 PROVIDE "GUARDIAN DRAIN LOCK" IN DRAIN BODY.
  - 6 CONNECT DRAIN LINES FROM DRINK BARS AND FOUNTAIN WALLS TO HEADER PIPE. ROUTE HEADER DRAIN LINE TO FLOOR SINK. PROVIDE WITH AIR GAP FITTING PER LOCAL AUTHORITIES. REFER TO P512 & L5-P5II.
  - 7 RECESS FLOOR SINK ASSOCIATED WITH FLOOR SCRUBBER 1/4" BELOW FINISH FLOOR. RE: L7-A4IO.
  - 8 PROVIDE CONDENSATE PUMP FOR FLOOR COOLER. ROUTE CONDENSATE UP TO CEILING TO INDIRECT WASTE OVER FLOOR SINK AS SHOWN. RE: P600.
  - 9 PROVIDE PERMADRAIN DOME STRAINER IN DRAIN BODY.
  - 10 ROOF DRAIN PIPE FROM ABOVE. RE: P104 FOR ROUTING FROM CANOPY. RE: GII-S50I FOR PIPING OFFSET AND SLEEVE THROUGH FOOTING.
  - 11 PROVIDE HEAT TRACE CABLE FOR ALL CONDENSATE DRAIN PIPING WITHIN FREEZER. PROVIDE 1" ARMAFLEX INSULATION OVER HEAT TRACING ON CONDENSATE LINE. SLOPE DRAIN PIPING 1/8" PER FT. TOWARD TERMINATION POINT. INSTALL HEAT TRACE LINE SIMILAR TO DETAIL FI-P5IO.
  - 12 ROUTE VENT EXPOSED ALONG WALL.
  - 13 ROUTE TO GREASE INTERCEPTOR. RE: P50I FOR COMPLETE SYSTEM. RE: CIVIL FOR EXACT LOCATION.
  - 14 NOT USED.
  - 15 PROVIDE TRAP SEAL IN FLOOR DRAIN TYPICAL OF JOSAM MODEL #TSI

REFER TO SHEET P600 FOR \* EQUIPMENT TAGS  
REFER TO SHEET P501 & P502 FOR PIPE SIZES.

A9	PLAN NOTES
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Legend		
Label	Quantity	Unit
3" Floor Drain	2	Count
3" Floor Sink	9	Count
4" Floor Sink	5	Count



REFER TO SHEET P500 FOR EQUIPMENT TAGS  
REFER TO SHEET P501 & P502 FOR PIPE SIZES.



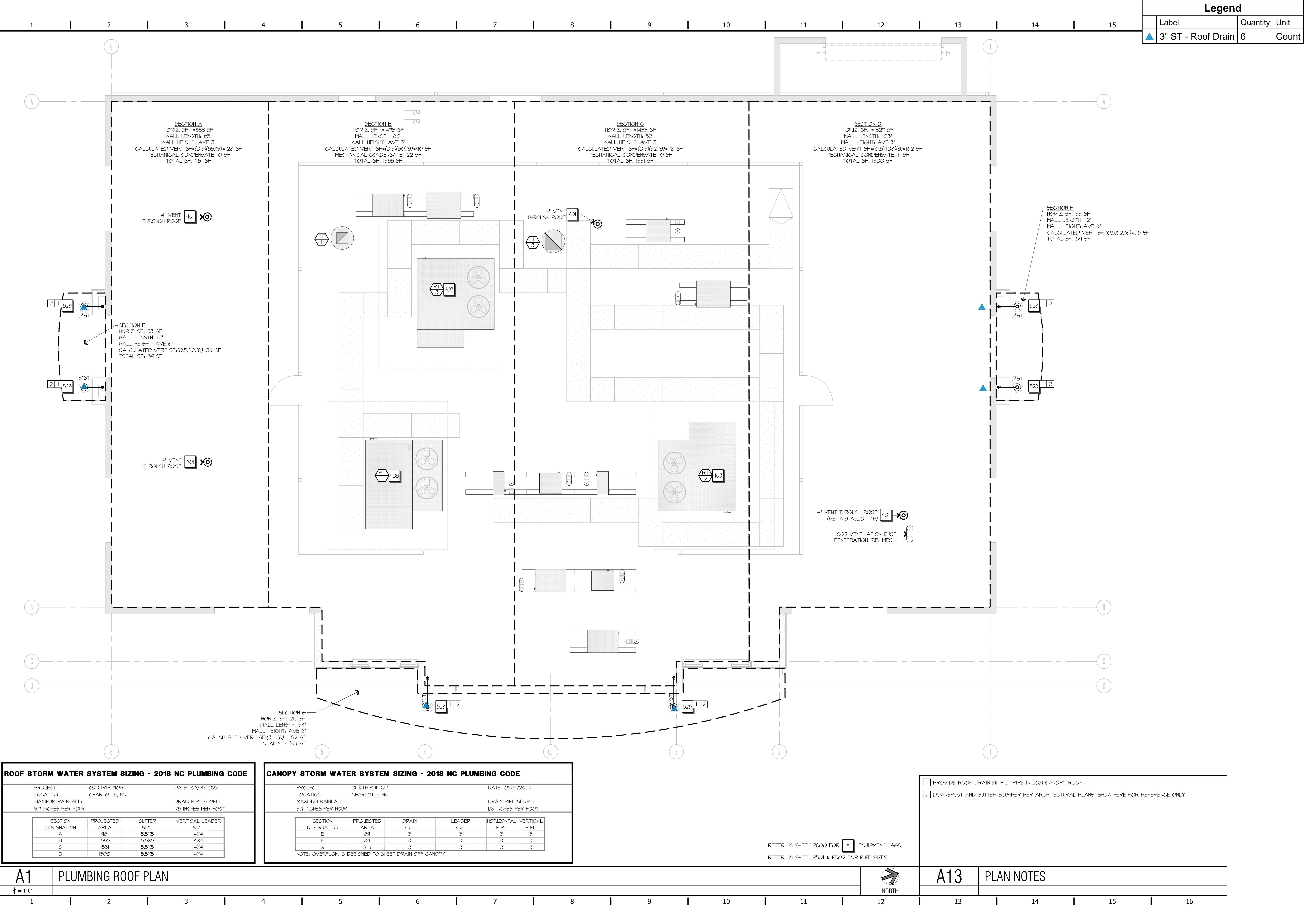
A1 PLUMBING SLAB ROUGH-IN FLOOR PLAN

1' = 1'-0"

NORTH

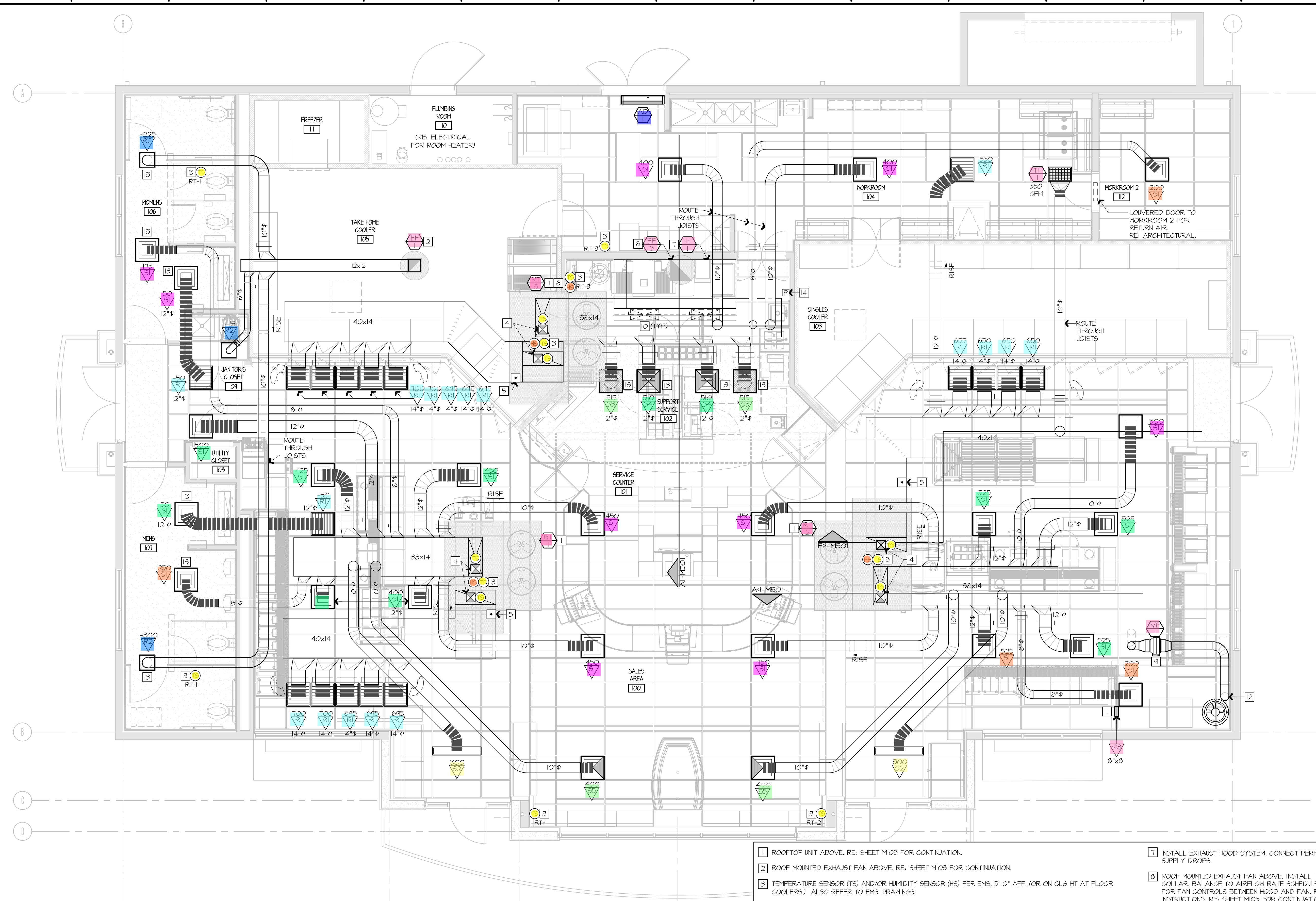
## Legend

	Label	Quantity	Unit
▲	3" ST - Roof Drain	6	Count



## Legend

Label	Quantity	Unit
Air Door -AD-1	1	Count
Exhaust Fan - EF-1	1	Count
Exhaust Fan - TF-1	1	Count
Exhaust Fan - VF-1	1	Count
Hood/Exhaust Fan - EF-3	1	Count
Hood/Exhaust Fan - H-1	1	Count
Humidity Sensor	4	Count
R1- Return Diffuser (12" Dia)	3	Count
R1- Return Diffuser (14" Dia)	14	Count
R2 - Exhaust (14"x14")	3	Count
R3 - Transfer (8"x8")	1	Count
RT-1 - Roof Top Unit	1	Count
RT-2 - Roof Top Unit	1	Count
RT-3 - Roof Top Unit	1	Count
S1- Supply Diffuser (8" Dia)	4	Count
S1- Supply Diffuser (10" Dia)	9	Count
S1- Supply Diffuser (12" Dia)	9	Count
S2 - Supply Diffuser (10" Dia)	2	Count
S3- Supply Diffuser (12" Dia)	2	Count
S4- Supply Diffuser (12" Dia)	2	Count
S5- Supply Diffuser (10" Dia)	2	Count
Temperature Sensor	15	Count



- ALL DUCTWORK TO BE METALLIC. MEET ALL CRITERIA FOR SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, AND MEET ALL CRITERIA PER NORTH CAROLINA MECHANICAL CODE - SECTION 603, RE: MEP SPECIFICATIONS FOR MORE INFORMATION.
- HOLD TOP OF DUCTWORK TO UNDERSIDE OF STRUCTURE WHEREVER POSSIBLE, ALLOWING ADEQUATE SPACE FOR DUCT WRAP INSULATION PER SPECS.  
PAINT INSIDE OF HARD DUCTS OR PLENUMS BLACK WHERE VISIBLE THROUGH GRILLE FACE.
- ALL BRANCH DUCTS SHALL HAVE BALANCING DAMPER INSTALLED AS INDICATED ON DRAWINGS. HANDLE SHALL BE ACCESSIBLE AND BE CAPABLE OF OPENING OR CLOSING FULLY. PROVIDE RECTANGULAR DAMPERS TYPICAL OF RUSKIN MDR525 WITH 2" STAND-OFF BRACKET, RE: SPECS. REFER TO DIFFUSER CONNECTION DETAIL MI-M501.
- 1 ROOFTOP UNIT ABOVE, RE: SHEET M103 FOR CONTINUATION.  
2 ROOF MOUNTED EXHAUST FAN ABOVE, RE: SHEET M103 FOR CONTINUATION.  
3 TEMPERATURE SENSOR (TS) AND/OR HUMIDITY SENSOR (HS) PER EMS. 5'-0" AFF. (OR ON CLG HT AT FLOOR COOLERS.) ALSO REFER TO EMS DRAWINGS.  
4 AAON SHALL FURNISH SUPPLY & RETURN DUCT MOUNTED SMOKE DETECTOR SYSTEM MEETING THE REQUIREMENTS OF UL 268A. DETECTORS SHALL BE INTERLOCKED VIA RELAYS TO SHUT DOWN ALL ROOFTOP UNITS UPON DETECTION OF SMOKE BY ANY ONE DETECTOR. SYSTEM SENSOR SMOKE DETECTOR CONTROLLER #D4P120B AND SENSORS #D45B.  
5 AAON SHALL FURNISH ANNUNCIATOR/REMOTE TEST STATION COMBO MODEL RTS-2A05 MULTI-SIGNALING DEVICE WITH STROBE, ONE PER EACH RTU COMPATIBLE WITH 4-WIRE CONVENTIONAL DUCT SMOKE DETECTORS FOR VISUAL AND AUDIBLE ALARMS, LOCAL VISIBLE TROUBLE SIGNAL, AND REMOTE TESTING. CONTRACTOR SHALL INSTALL ALARMS AND PROVIDE LOCAL WIRING AND RELAYS BETWEEN SMOKE DETECTORS AND REMOTE ANNUNCIATORS. MOVE ANNUNCIATORS ON ROOM SIDE OF CEILING. LABEL EACH WITH THE NAME OF THE UNIT AND DETECTOR IT SERVES AS FOLLOWING:  
RTU-1 SUPPLY / RETURN AIR DUCT DETECTOR TROUBLE!  
RTU-2 SUPPLY / RETURN AIR DUCT DETECTOR TROUBLE!  
6 INTERLOCK RTU VIA RELAY TO HOOD CONTROL PANEL. RTU SHALL SHUT DOWN UPON ACTIVATION OF HOOD FIRE SUPPRESSION SYSTEM.

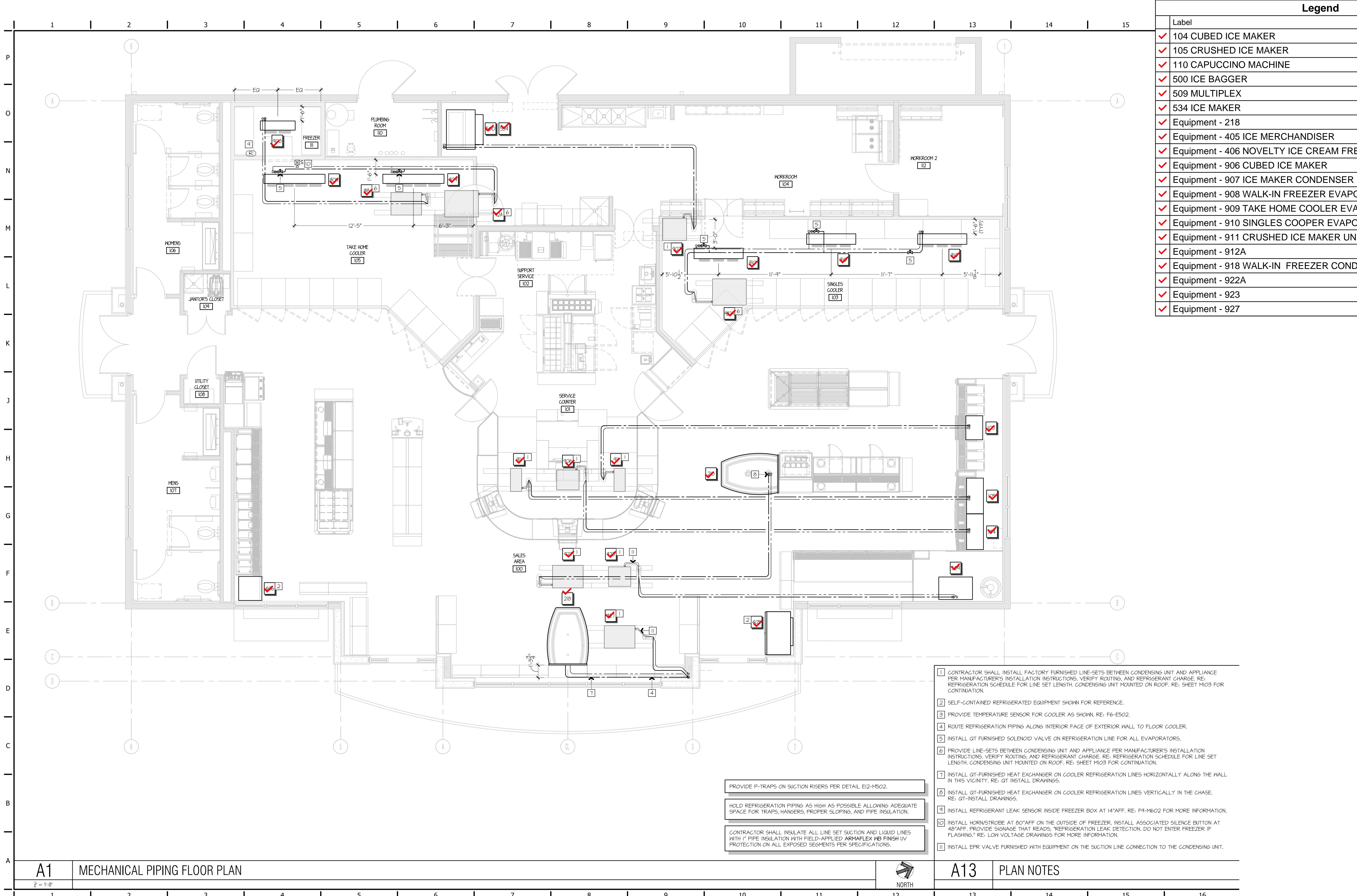
- 7 INSTALL EXHAUST HOOD SYSTEM. CONNECT PERFORATED SUPPLY PLENUM TO SUPPLY DUCT WITH (2) 28"X10" SUPPLY DROPS.  
8 ROOF MOUNTED EXHAUST FAN ABOVE, INSTALL 12" GREASE DUCT TO ROOF MOUNTED FAN, EXTEND HOOD COLLAR. BALANCE TO AIRFLOW RATE SCHEDULED ON M101. COORDINATE WITH ELECTRICAL CONTRACTOR FOR FAN CONTROLS BETWEEN HOOD AND FAN REFER TO QT INSTALL DRAWINGS AND HOOD MANUFACTURER'S INSTRUCTIONS, RE: SHEET M103 FOR CONTINUATION.  
9 CO2 TANK, EXHAUST FAN, AND VENT PIPING. MOUNT VENTILATION FAN TO ALLOW FOR SALES FLOOR CEILING ACCESS TO CONTROLS AND DISCONNECTS. ROUTE 8" DUCT, PAINTED TO MATCH WALL. TERMINATE 8" DUCT @ 12" AFF WITH 1/4" X 1/4" GALVANIZED SCREEN ON OPENING AT THE BOTTOM. PROVIDE GOOSENECK WITH 1/4" X 1/4" GALVANIZED SCREEN AT TOP, RE: K1-M501 FOR CO2 EXHAUST DUCTWORK DETAIL, RE: AI-M601 FOR FAN SCHEDULE.  
10 PROVIDE MANUAL BALANCING DAMPER AT SUPPLY DROPS BALANCED AT 515 CFM, RE: AI-M501 FOR SECTION VIEW.  
11 PROVIDE TRANSFER GRILLE MOUNTED @ 12" AFF TO TOP OF GRILLE, AND CENTERED IN ACCESS DOOR BETWEEN FOUNTAIN WALL AND FREEZON SPACE.  
12 PROVIDE 8" BACKDRAFT DAMPER LOCATED IN VERTICAL DUCT @ 9'-6" TO TOP OF DAMPER. PROVIDE DUCT CLAMP FITTING OR COUPLING TO TEMPORARILY REMOVE DUCT WITHIN SPACE FOR CLEANING/MAINTENANCE OF EQUIPMENT IN THIS AREA.  
13 RE: SHEET E504 FOR EXACT GRILLE/DIFFUSER LOCATIONS WITHIN HARD CEILINGS.  
14 INSTALL ANSUL PULL STATION, RE: FII-E501 FOR ELEVATION.

A1 MECHANICAL DUCTWORK FLOOR PLAN

1' = 1'-0"

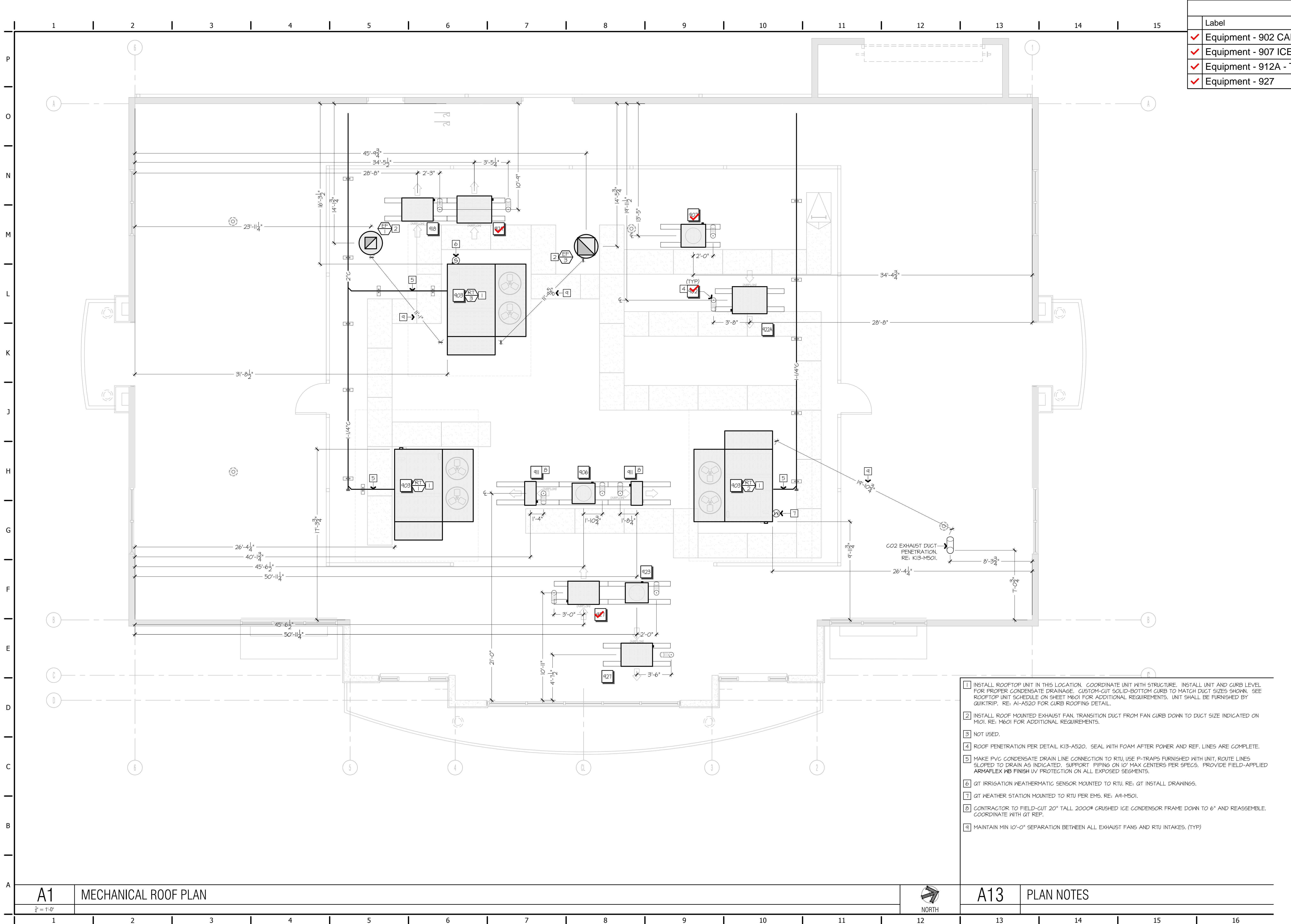
A9 PLAN NOTES

NORTH



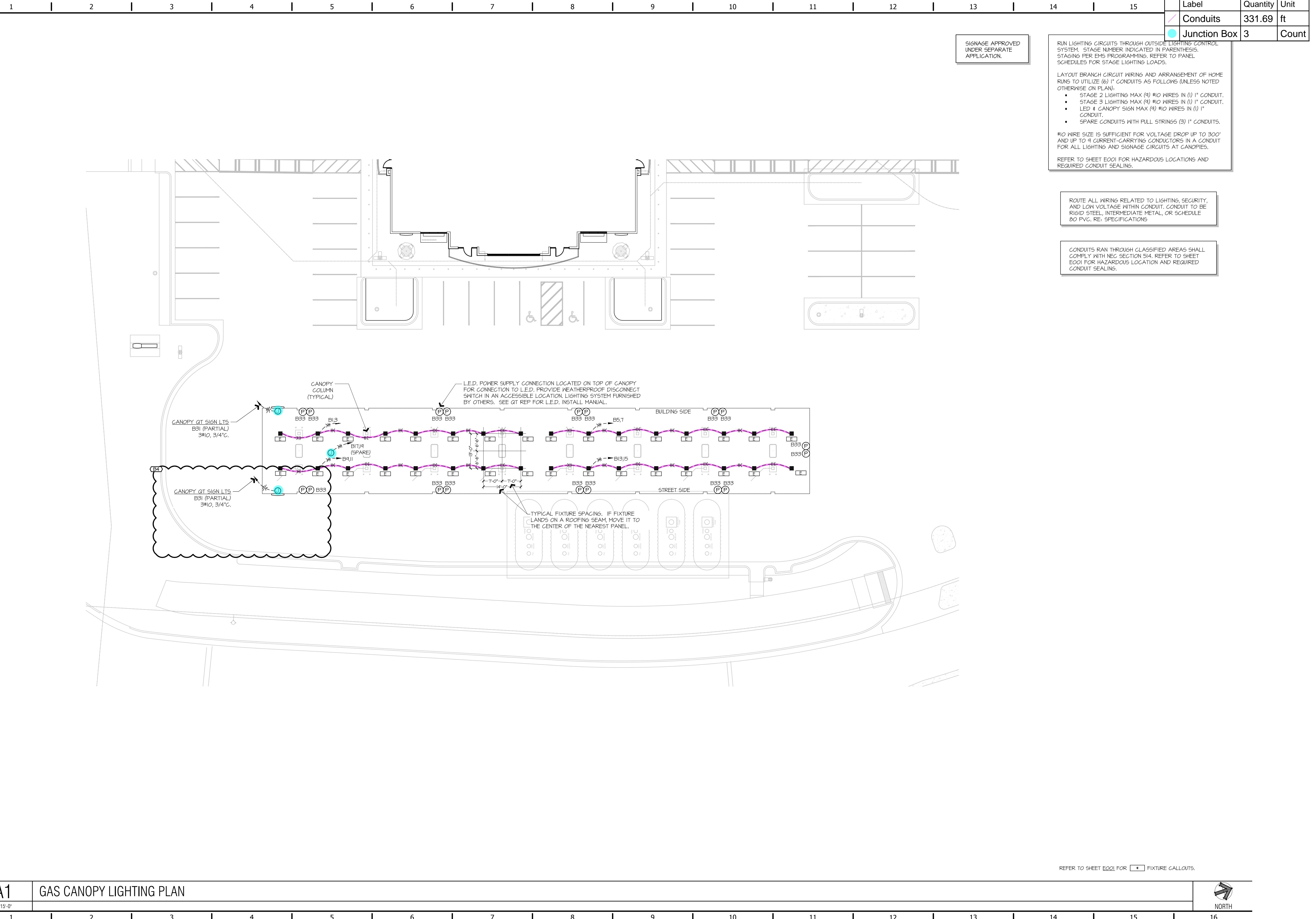
### Legend

	Label
✓	Equipment - 902 CANDYCANE PENETRATIC
✓	Equipment - 907 ICE MAKER CONDENSER L
✓	Equipment - 912A - Take Home Cooler Conde
✓	Equipment - 927

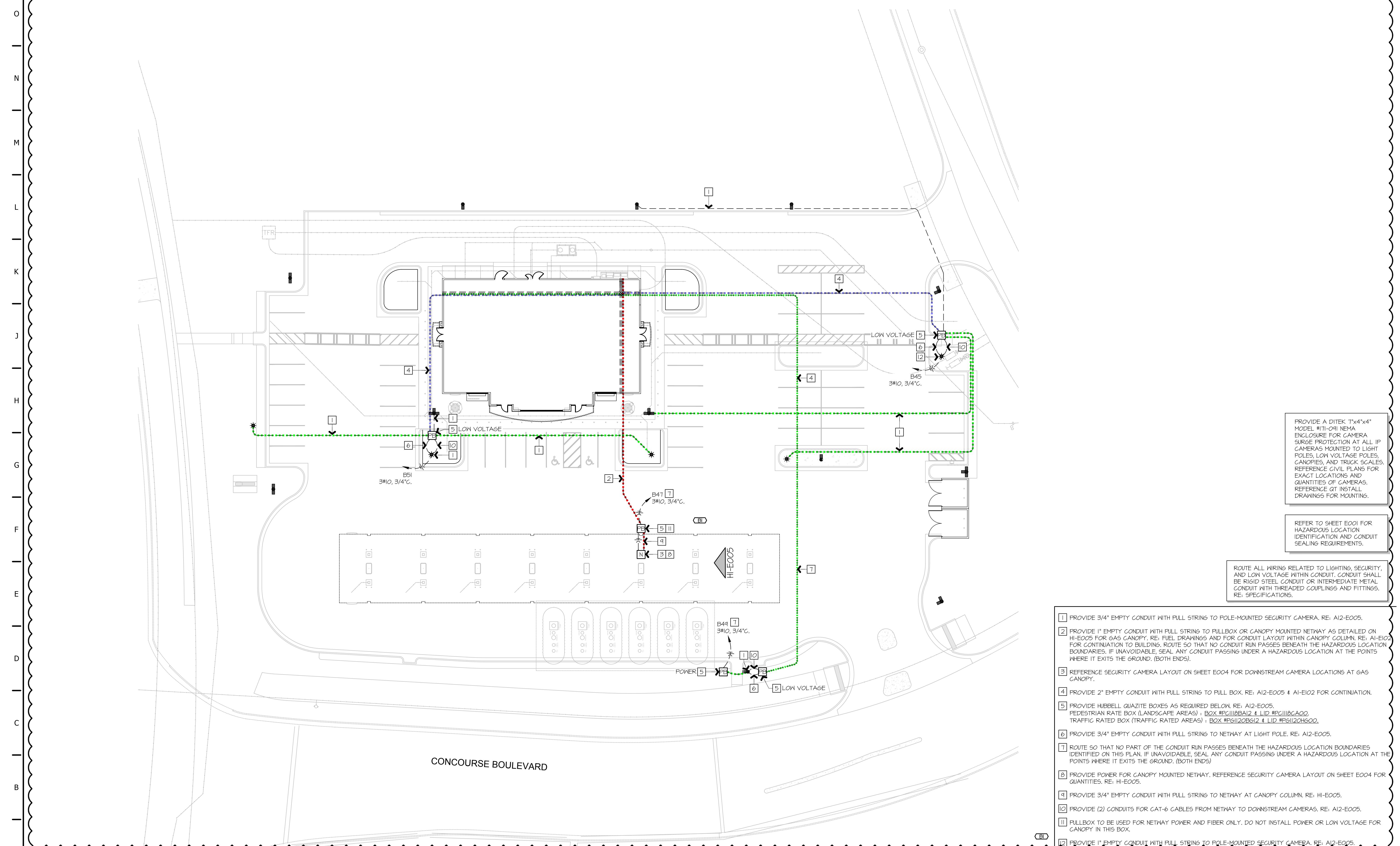




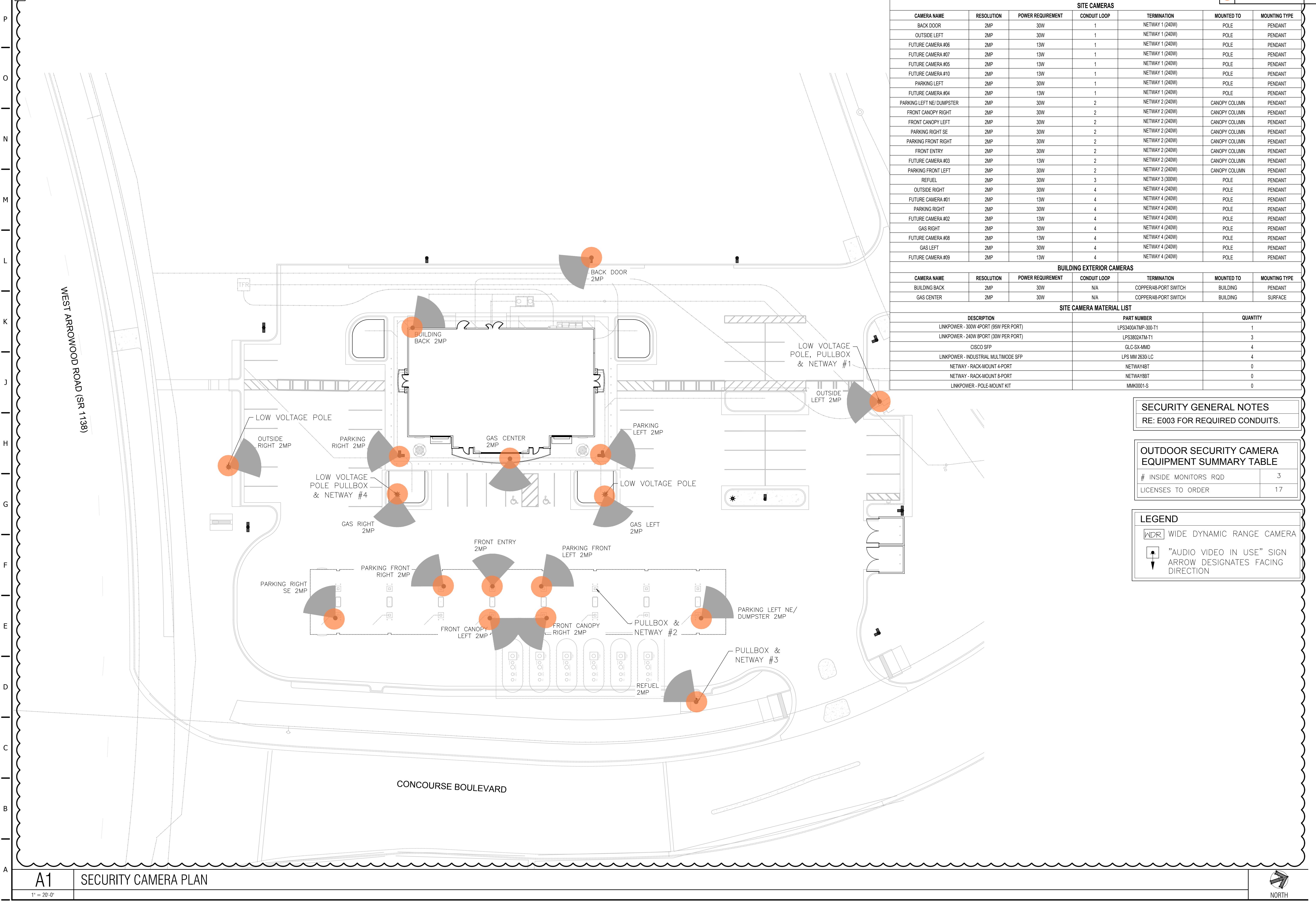
Legend		
Label	Quantity	Unit
Conduits	331.69	ft
Junction Box	3	Count



Legend			
	Label	Quantity	Unit
	(2) 1" Empty Conduits	116.70	ft
	2" Empty Conduits	314.99	ft
	2" Empty Conduits	350.43	ft
	3/4" Empty Conduits	8.35	ft
	3/4" Empty Conduits	543.60	ft

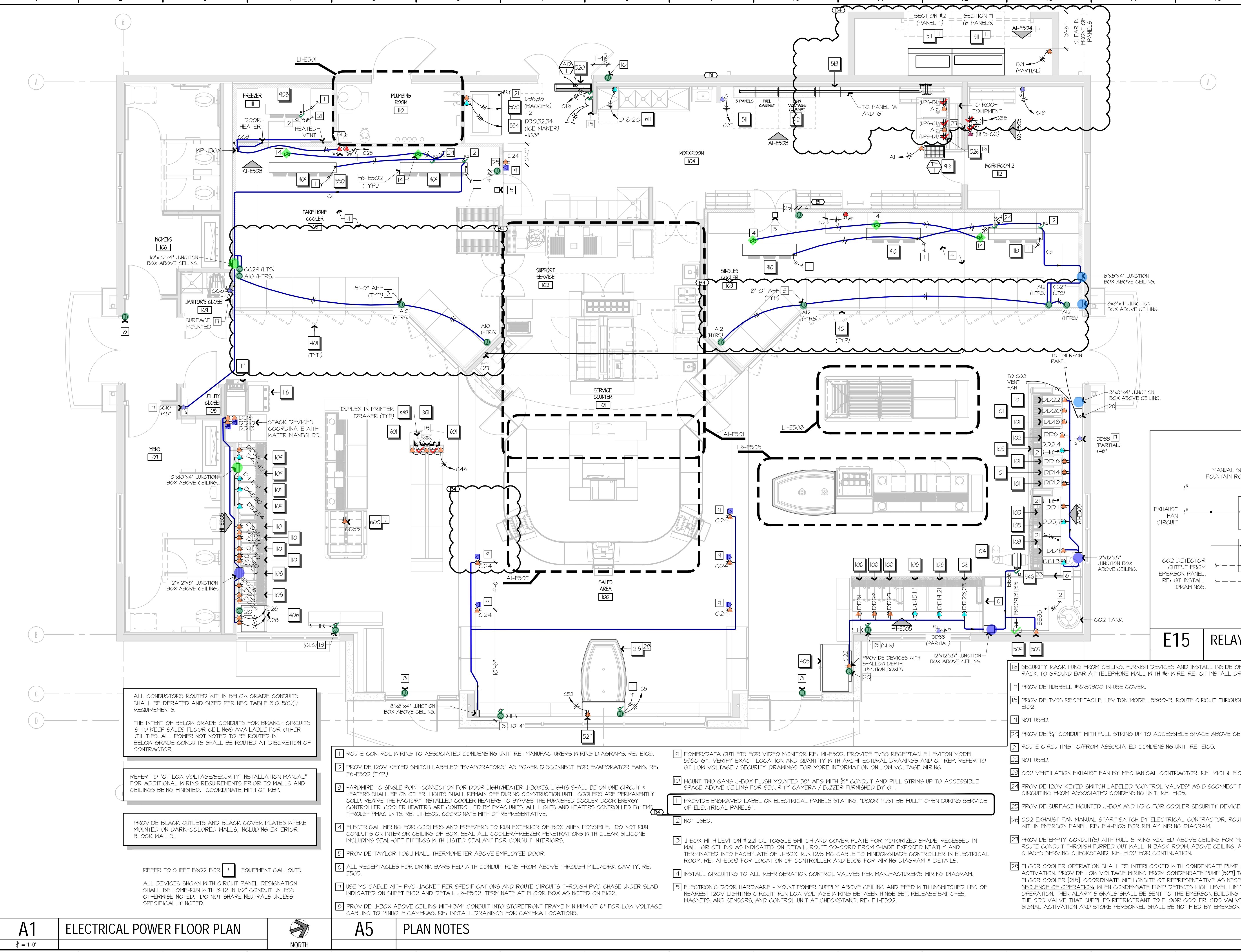


Legend			
	Label	Quantity	Unit
	Camera - 2MP	17	Count

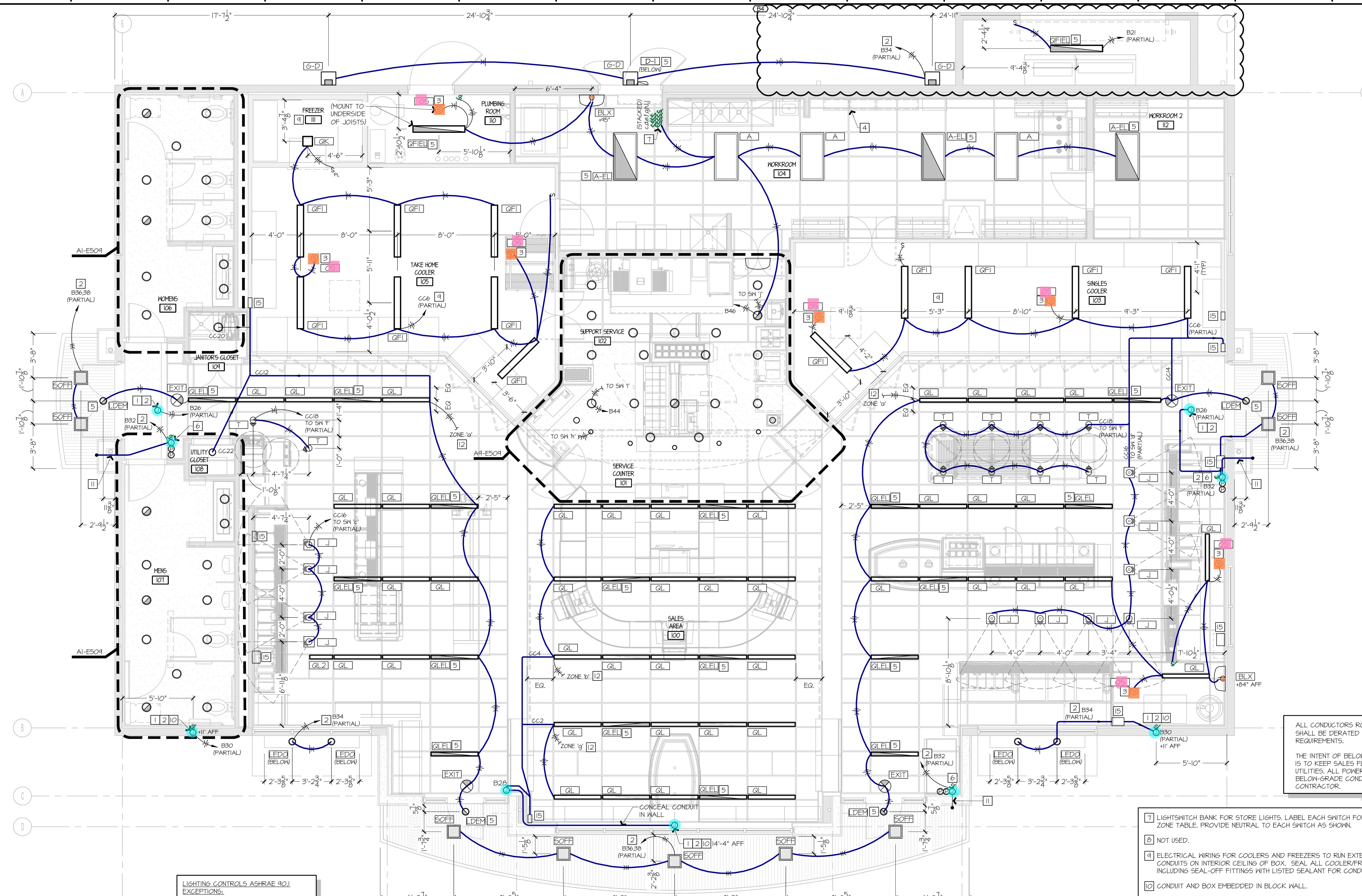


## Legend

Label	Quantity
✓ 20 AMP Double Duplex Receptacles	7
/ Conduits	331.07
◆ Control Valves	5
✓ Disconnect Switch	1
△ Duplex Receptacles	45
▲ GFI Duplex Receptacles	6
● Junction Box (8"x8"x4")	3
● Junction Box (10"x10"x4")	2
● Junction Box (12"x12"x8")	3
● Junction Box	20
▲ Receptacles	1
✓ Single Pole Switch	12
▲ Special Receptacle	12
■ Telephone/Data Outlet	8
▲ Weatherproof Duplex Receptacles	3



Label	Quantity
Conduits	58
Duplex Receptacles	2
Junction Box	9
Occupancy Sensor	7
Sensor For Emerson Management System	7
Single Pole Switch	16



ALL CONDUCTORS ROUTED WITHIN BELOW GRADE CONDUITS SHALL BE DERATED AND SIZED PER NEC TABLE 310.15(C)(1).

THE INTENT OF BELOW GRADE CONDUITS FOR BRANCH CIRCUITS IS TO KEEP SALES FLOOR CEILINGS AVAILABLE FOR OTHER UTILITIES. ALL POWER NOT NOTED TO BE ROUTED IN BELOW-GRADE CONDUITS SHALL BE ROUTED AT DISCRETION OF CONTRACTOR.

7. LIGHTSWITCH BANK FOR STORE LIGHTS. LABEL EACH SWITCH FOR THE AREA SERVED. REFERENCE CONTROL ZONE TABLE. PROVIDE NEUTRAL TO EACH SWITCH AS SHOWN.

8. NOT USED.

9. ELECTRICAL WIRING FOR COOLERS AND FREEZERS TO RUN EXTERIOR OF BOX WHEN POSSIBLE. DO NOT RUN CONDUITS ON INTERIOR CEILING OF BOX. SEAL ALL COOLER/FREEZER PENETRATIONS WITH CLEAR SILICONE INCLUDING SEAL-OFF FITTINGS WITH LISTED SEALANT FOR CONDUIT INTERIORS.

10. CONDUIT AND BOX EMBEDDED IN BLOCK WALL.

11. ROUTE THROUGH WALL AS HIGH AS POSSIBLE, THEN TURN UP TO ROUTE WITHIN STRUCTURE OVER TO J-BOX LOCATIONS.

12. ROUTE 0-10V CONTROL WIRES TO QT FURNISHED EMERSON LDIM BOARD AT LIGHTING PANEL. REFERENCE AI-E503 FOR ELEVATION, REFERENCE QT INSTALL DRAWINGS FOR LOW VOLTAGE WIRING.

13. NOT USED.

14. NOT USED.

15. JUNCTION BOX ABOVE CEILING FOR RECEPTACLE AND LIGHTING CIRCUITS. RE: E103.

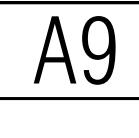
REFER TO SHEET E601 FOR LIGHT FIXTURE CALLOUTS.

REFER TO SHEET E602 FOR EQUIPMENT CALLOUTS.

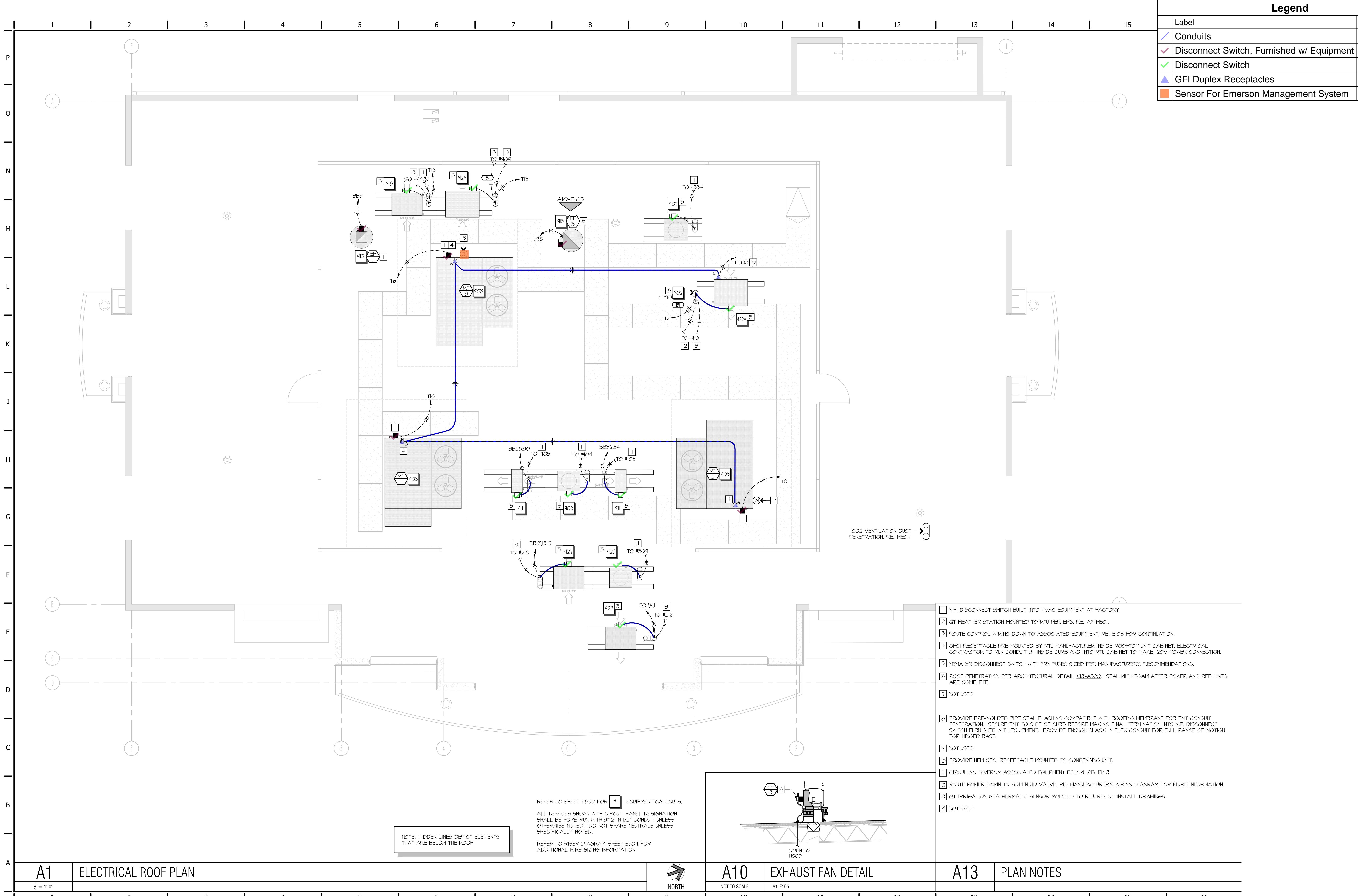
ALL DEVICES SHOWN WITH CIRCUIT PANEL DESIGNATION SHALL BE HOME-RUN WITH 3/4" IN 1/2" CONDUIT UNLESS OTHERWISE NOTED. DO NOT SHARE NEUTRALS UNLESS SPECIFICALLY NOTED.

A1 ELECTRICAL LIGHTING REFLECTED CEILING PLAN

A9 PLAN NOTES

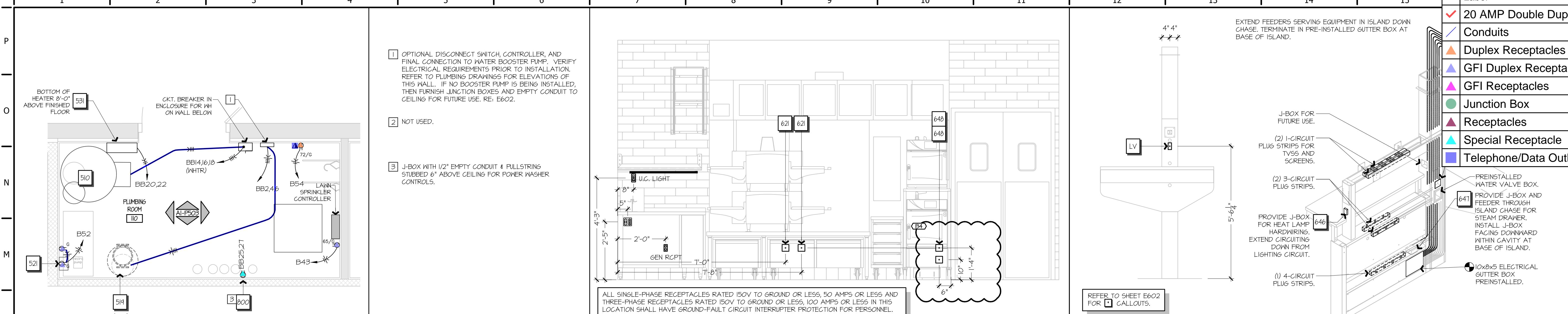


1' = 1'-0"



## Legend

Label	Quantity
✓ 20 AMP Double Duplex Receptacles	1
/ Conduits	14.81
△ Duplex Receptacles	11
△ GFI Duplex Receptacles	3
▲ GFI Receptacles	1
● Junction Box	8
▲ Receptacles	1
▲ Special Receptacle	6
■ Telephone/Data Outlet	3

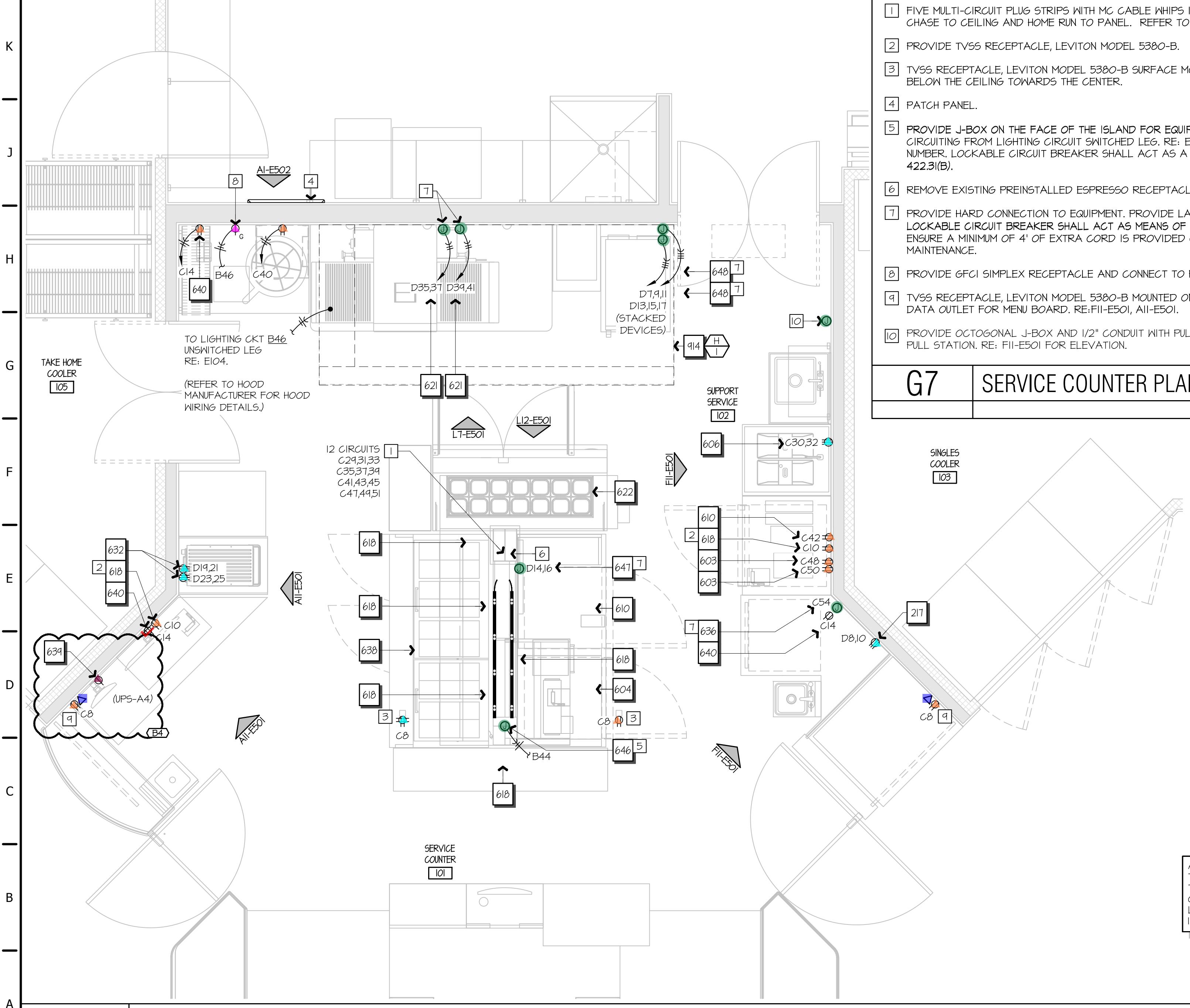


L1 ELECTRICAL ENLARGED PLUMBING ROOM  
 $\frac{1}{8}$  = 1'-0" A1-E103

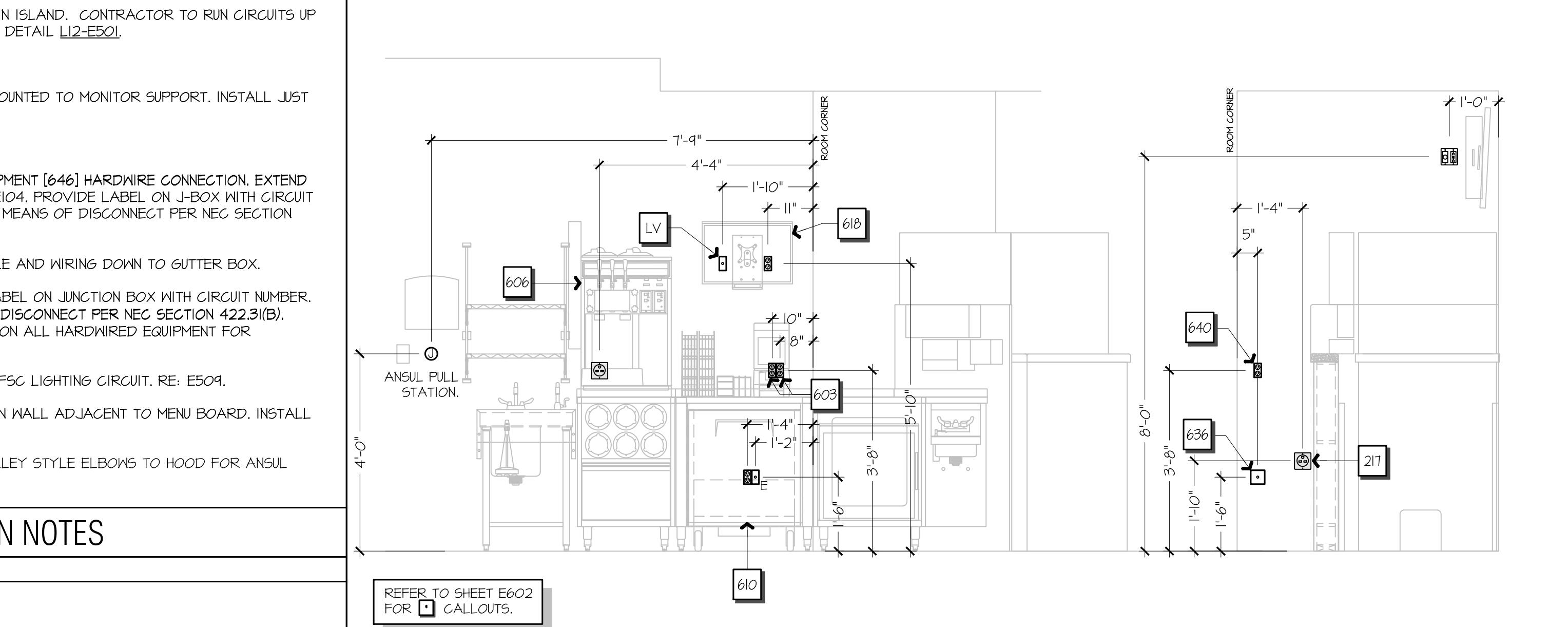
L4 PLUMBING ROOM NOTES  
 $\frac{1}{8}$  = 1'-0" A1-E501

L7 FSC REAR ELEVATION  
 $\frac{1}{8}$  = 1'-0" A1-E501

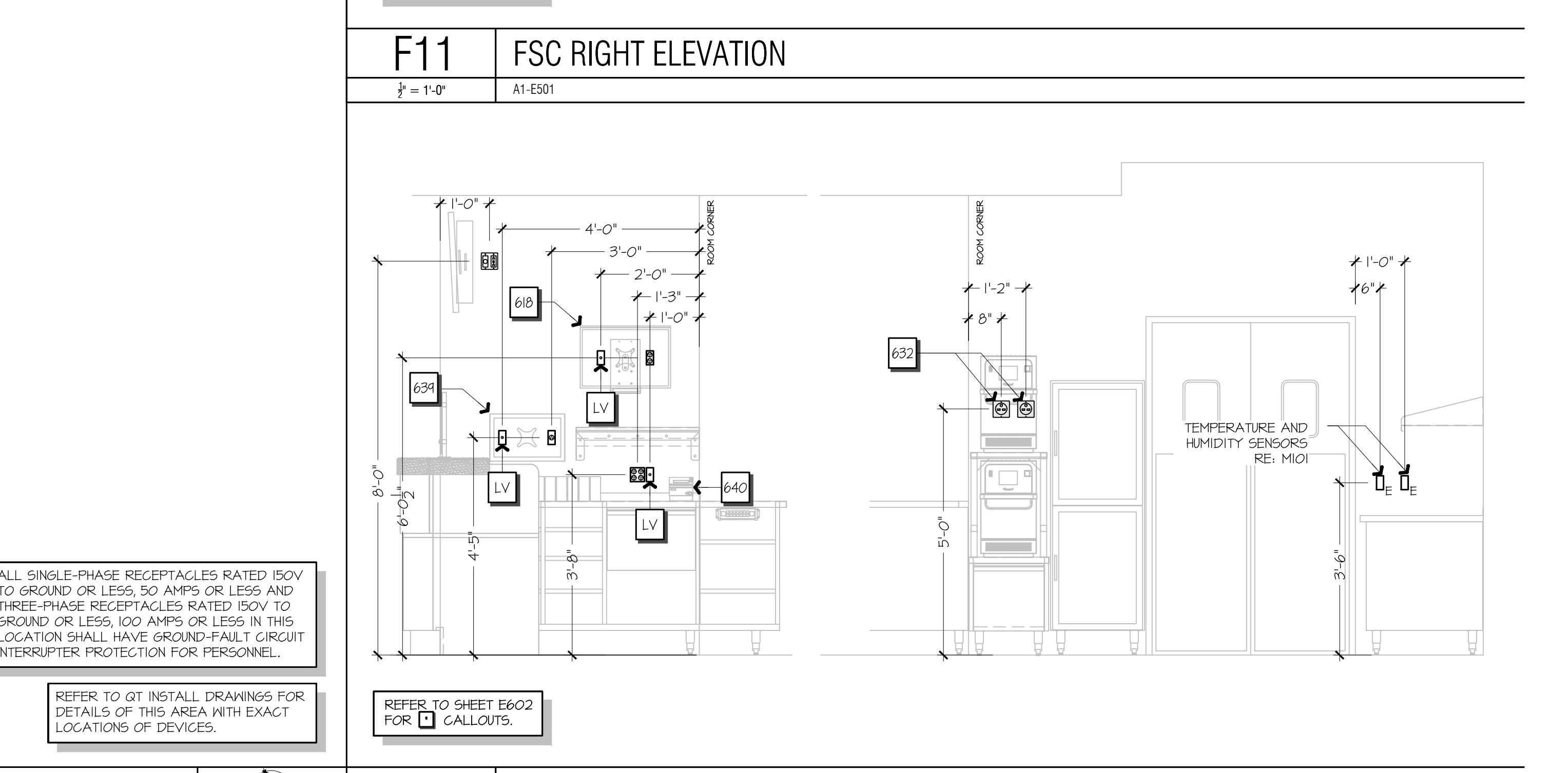
L12 FSC ISLAND ISOMETRIC  
 $\frac{1}{8}$  = 1'-0" A1-E501



A1 ELECTRICAL ENLARGED SERVICE COUNTER PLAN  
 $\frac{1}{8}$  = 1'-0" A1-E103



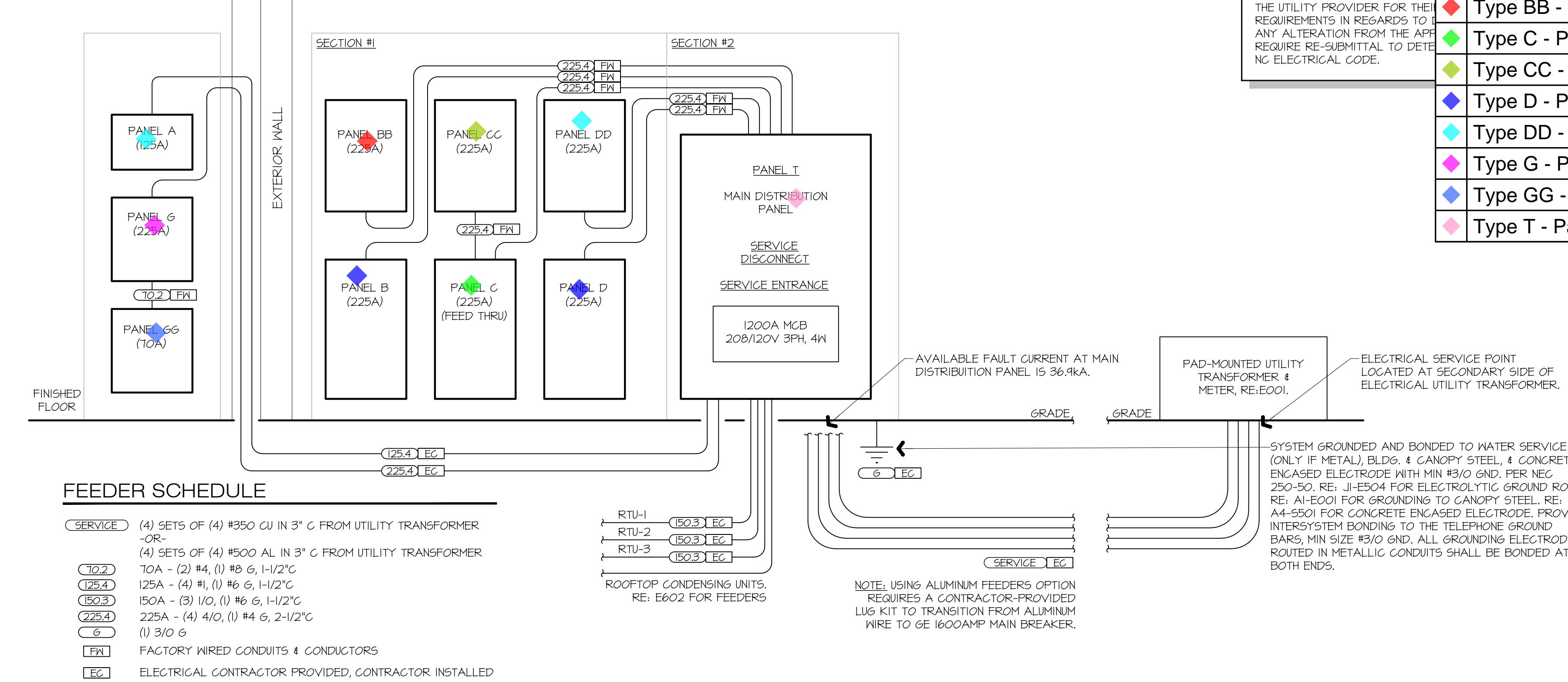
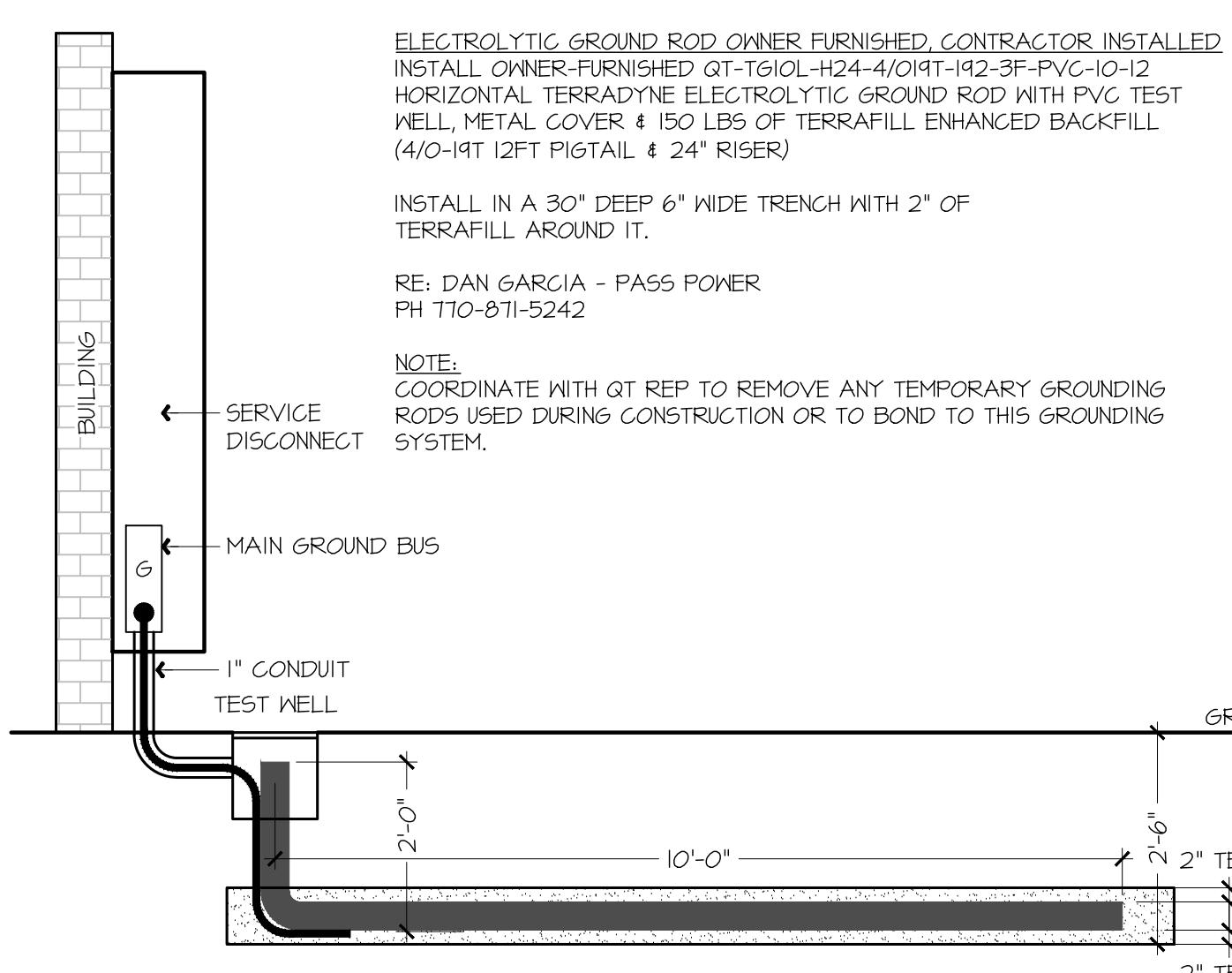
G7 SERVICE COUNTER PLAN NOTES



A11 FSC LEFT ELEVATION  
 $\frac{1}{8}$  = 1'-0" A1-E501

NORTH

Legend		
Label	Quantity	Unit
Type A - Panel Board	1	Count
Type B - Panel Board	1	Count
Type BB - Panel Board	1	Count
Type C - Panel Board	1	Count
Type CC - Panel Board	1	Count
Type D - Panel Board	1	Count
Type DD - Panel Board	1	Count
Type G - Panel Board	1	Count
Type GG - Panel Board	1	Count
Type T - Panel Board	1	Count

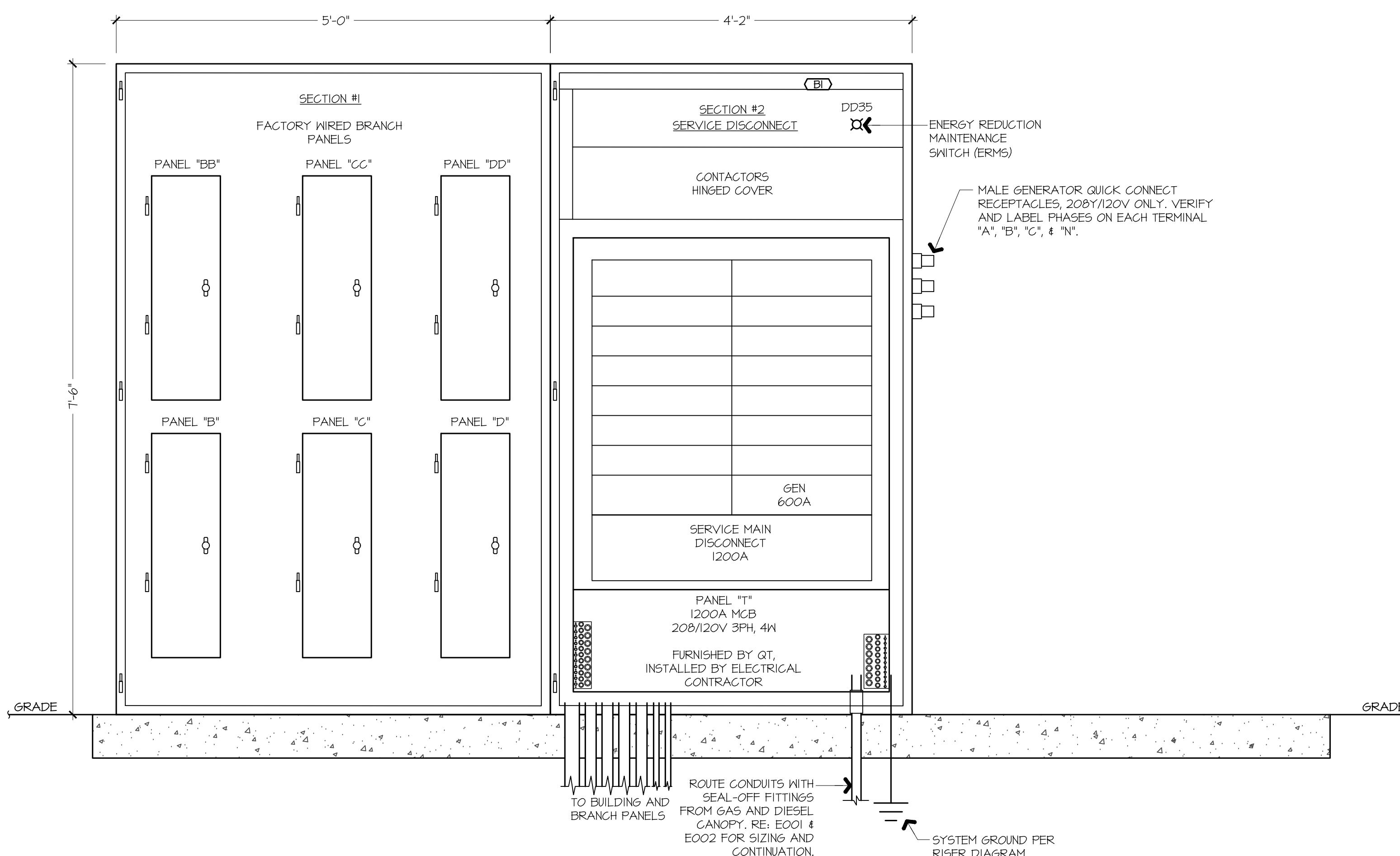


J1 ELECTROLYTIC GROUND ROD

1' = 1'-0"  
A1-E102, J6-E504

J6 ELECTRICAL RISER DIAGRAM

NOT TO SCALE



ALL CONDUCTORS ROUTED WITHIN BELOW GRADE CONDUITS  
SHALL BE DERATED AND SIZED PER NEC TABLE 310.15(G)(1)  
REQUIREMENTS.

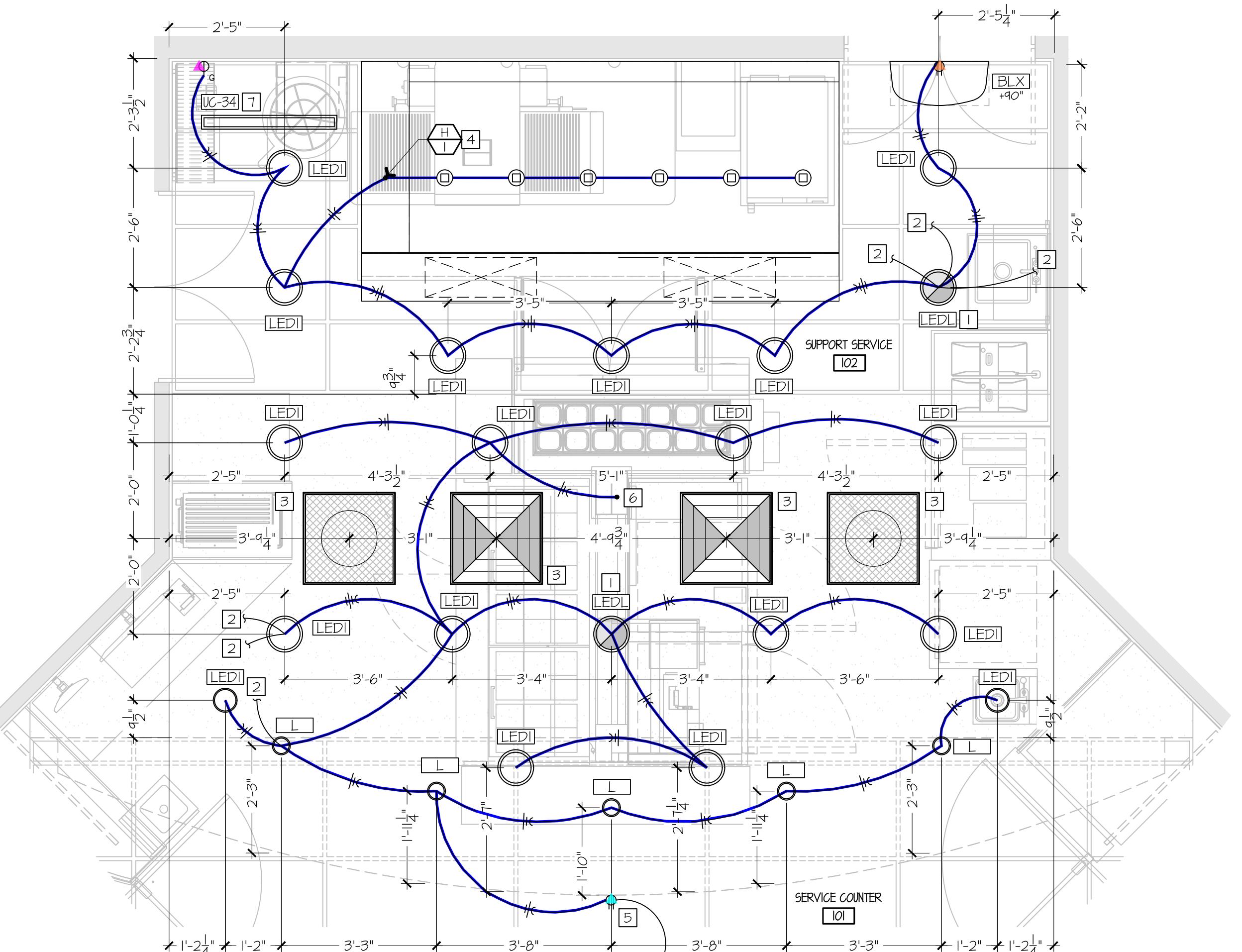
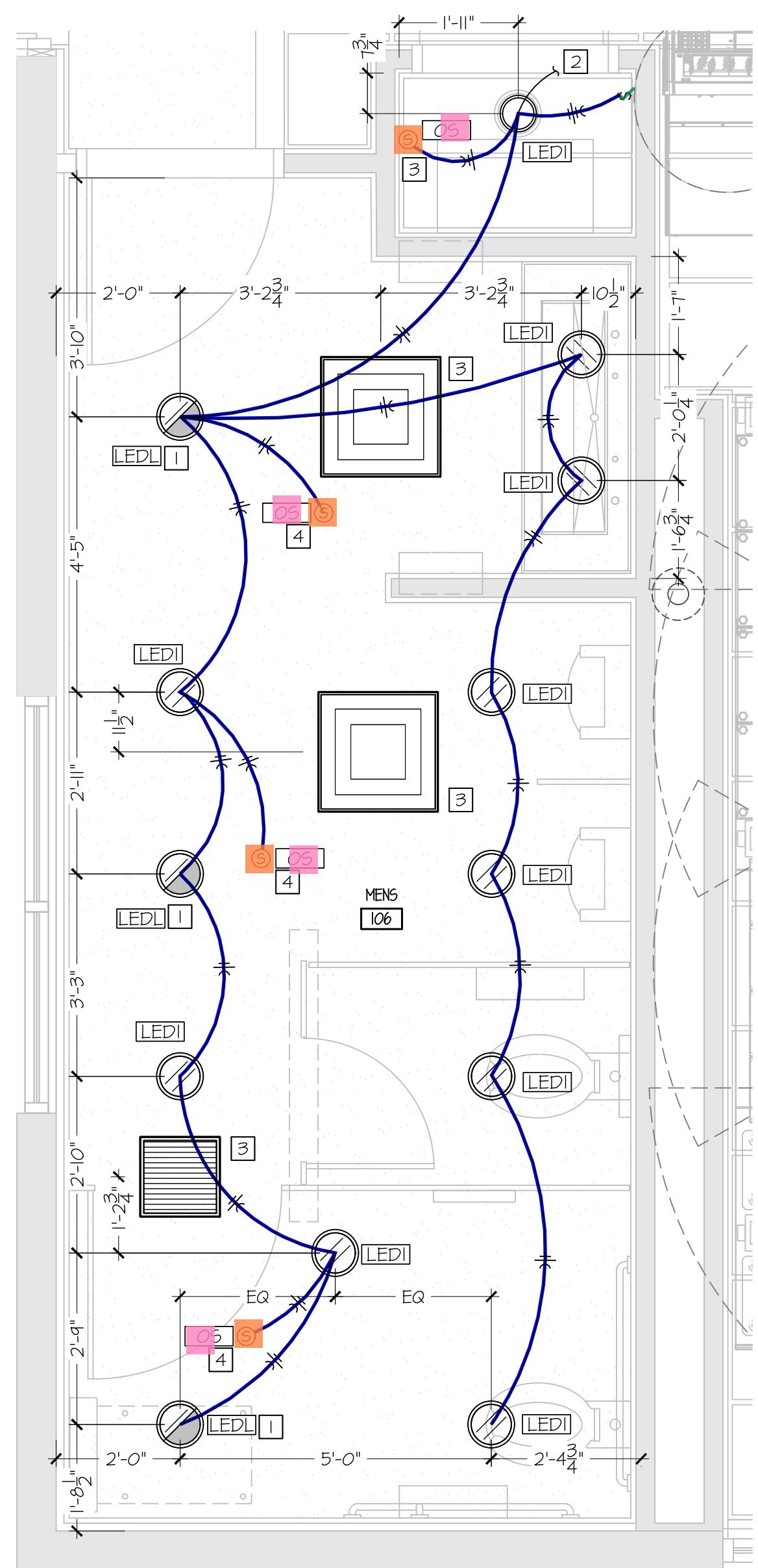
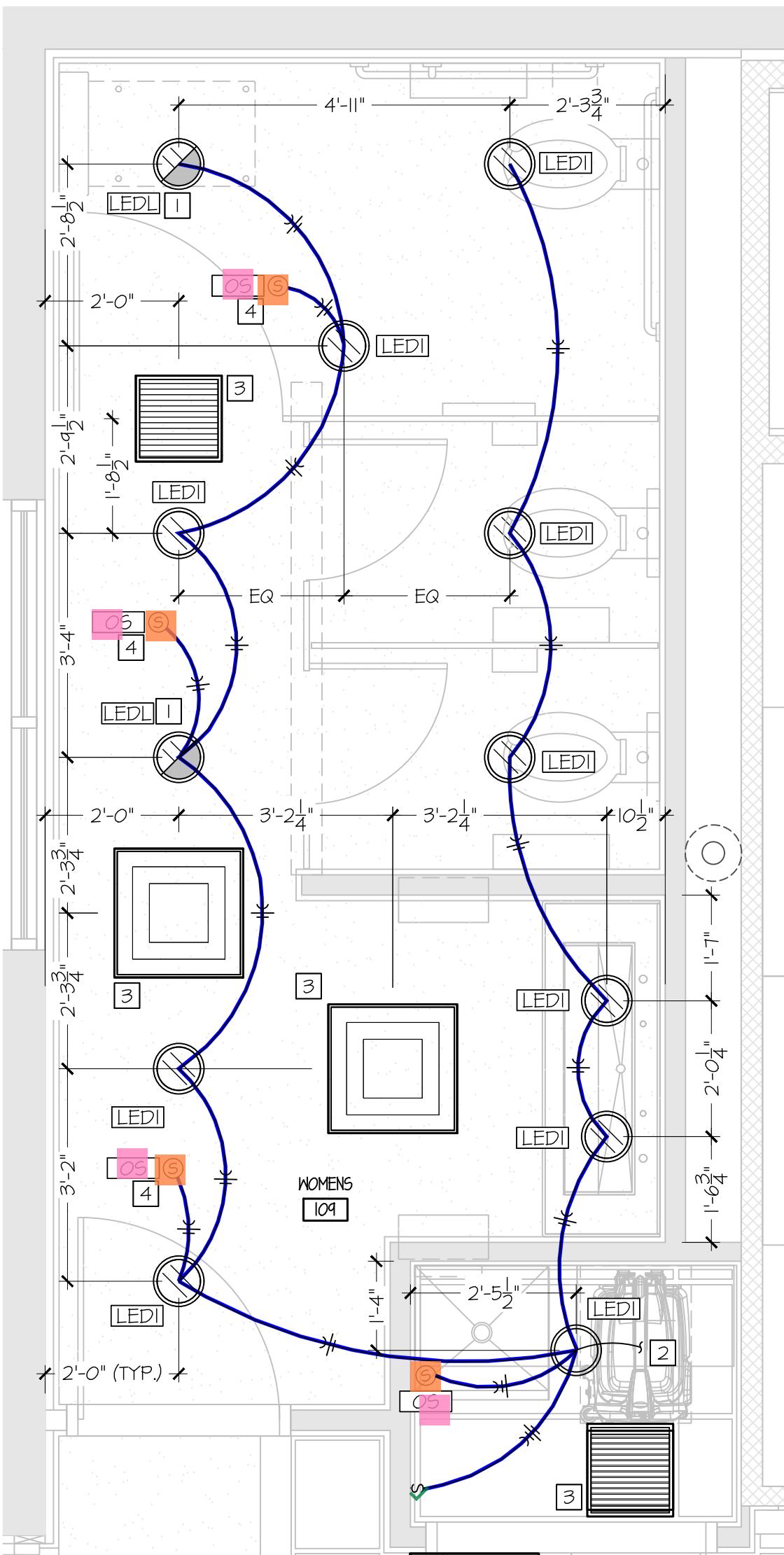
THE INTENT OF BELOW GRADE CONDUITS FOR BRANCH CIRCUITS  
IS TO KEEP SALES FLOOR CEILINGS AVAILABLE FOR OTHER  
UTILITIES. ALL POWER NOT NOTED TO BE ROUTED IN  
BELOW-GRADE CONDUITS SHALL BE ROUTED AT DISCRETION OF  
CONTRACTOR.

UNLESS OTHERWISE NOTED,  
ALL CONDUITS SHALL BE  
BELOW GRADE.

A1 EXTERIOR ELECTRICAL PANEL WALL ELEVATION

1' = 1'-0"  
A1-E103

Legend		
	Label	Qu
/	Conduits	23
▲	Duplex Receptacles	1
▲	GFI Receptacles	1
■	Occupancy Sensor	8
■	Sensor For Emerson Management System	8
✓	Single Pole Switch	2
▲	Special Receptacle	1



- 1 FIXTURE EQUIPPED WITH EMERGENCY BALLAST AND BATTERY PACK FOR EGRESS LIGHTING. RUN EXTRA UNSWITCHED HOT WIRE FOR EMERGENCY FIXTURE BYPASSING LIGHTSWITCHING AS INDICATED.
- 2 RE: E104 FOR CIRCUITING AND SWITCHING.
- 3 RE: M101 FOR DUCT ROUTING.
- 4 CEILING MOUNTED OCCUPANCY SENSOR TO CONTROL LIGHTS INDICATED. REFER TO LIGHT FIXTURE SCHEDULE

- FIXTURE EQUIPPED WITH EMERGENCY BALLAST AND BATTERY PACK FOR EGRESS LIGHTING. RUN EXTRA UNSWITCHED HOT WIRE FOR EMERGENCY FIXTURE BYPASSING LIGHTSWITCHING AS INDICATED.
- RE: E104 FOR CIRCUITING AND SWITCHING.
- RE: M101 FOR DUCT ROUTING.
- CONNECT UNSWITCHED LEG TO HOOD PANEL FOR HOOD LIGHTS & HOOD CONTROL PANEL. RE: E501.
- QT "KITCHENS" SIGN FURNISHED BY QUIKTRIP. PROVIDE RECEPTACLE LOCATED IN ACCESSIBLE LOCATION RECESSED WITHIN SOFFIT AS INDICATED FOR QUIKTRIP SIGNAGE. PROVIDE SWITCH AS SHOWN.
- EXTEND LIGHTING CIRCUIT TO HEAT LAMP RECEPTACLE WITHIN FSC ISLAND. RE: E501.
- INSTALL FIXTURE 3" FROM FRONT EDGE AND CENTERED UNDER SHELF. EXTEND LIGHTING CIRCUIT TO UNDERCABINET LIGHT RECEPTACLE. RE: E501 & E601.

# A1 LIGHTING ENLARGED RESTROOMS PLAN

# A5 PLAN NOTE

# A9 LIGHTING ENLARGED FSC PLAN

# A13 PLAN NOTES

ELECTRICAL EQUIPMENT LIST AND CONNECTION SCHEDULE														
P	0	N	M	L	K	J	H	G	F	E	D	C	B	A
Tag #	Description	Make & Model	Voltage / Phase / Wire	Load Amps	Type of Connection	Wire and Conduit	Mounting Height (A.F.F.)	Furnished by	Item	Remarks				
I01	BREWED TEA DISPENSER	BUNN #4100.002	120/1/3W	14.2	NEMA 5-20R	3#12 IN 1/2"	18"	QT	NOTE 8					
I02	FOUNTAIN MACHINE	CORNELLUS ED #250-6	120/1/3W	3.5	NEMA 5-20R	3#12 IN 1/2"	18"	QT	PROVIDE CORD AND PLUG FOR DISCONNECT IF NOT ALREADY EQUIPPED					
I03	FOUNTAIN MACHINE	CORNELLUS ED #350-12	120/1/3W	5.2	NEMA 5-20R	3#12 IN 1/2"	18"	QT	PROVIDE CORD AND PLUG FOR DISCONNECT IF NOT ALREADY EQUIPPED					
I04	CUBED ICE MAKER - 1200LB	MANITOWOC #YT1200N	208/1/3W	11.0	NEMA L6-20R	3#12 IN 1/2"	18"	QT	NOTE 8 / REMOTE CONDENSER #JC-0845A (EQUIP #406)					
I05	CRUSHED ICEMAKER - 2000LB	CORNELLUS #ICG200IR	208/1/3W	18.6	NEMA L6-30R	3#10 IN 1/2" C	18"	QT	NOTE 2 / REMOTE CONDENSER #GR-1200 (EQUIP #411)					
I06	FREEZONI MACHINE	FBD #T14	208/1/3W	23.0	NEMA L6-30R	3#10 IN 1/2" C	26"	QT	NOTE 9					
I07	SMOOTHIE MACHINE	BUNN #ULTRA-2 PAF	120/1/3W	15.0	NEMA 5-20R	3#12 IN 1/2"	26"	QT						
I08	COFFEE MACHINE	BUNN #35000.0013	120/208/1/4W	24.1	NEMA 14-30R	3#8 1/0 G, 1/0 C.	26"	QT	NOTE 10					
I09	CAPPUCCINO MACHINE	BUNN #IMX3	120/1/3W	15.0	NEMA 5-20R	3#12 IN 1/2"	26"	QT						
I10	LOTTO TICKET READER		120/1/3W	1.5	NEMA 5-20R	3#12 IN 1/2"	12"	QT						
I11	ATM		120/1/3W	2.0	NEMA 5-20R	3#12 IN 1/2"	12"	QT						
I204	BUN WARMER	STAR #SST-45HC	120/1/3W	4.3	NEMA 5-20R	3#12 IN 1/2"	26"	QT						
I205	ROLLER GRILLS	NEMCO DIGITAL ROLLERGRILL	120/1/3W	11.4	NEMA 5-20R	3#12 IN 1/2"	26"	QT						
I207	MICROWAVE	AMANA HDC12A	120/1/3W	16.8	NEMA 5-20R	3#12 IN 1/2"	26"	QT						
I208	CHILI & CHEESE MACHINE	STAR #HPDE2-4	120/1/3W	8.0	NEMA 5-20R	3#12 IN 1/2"	26"	QT						
I213	COLD BAR	APM INOTT #RTR-B	120/1/3W	4.0	NEMA 5-20R	3#12 IN 1/2"	26"	QT						
I214	FLOOR ACCESS PANEL	JOSAM #58646-10		-	-	-	-	QT	10"X10" ACCESS PANEL WITH SCORIATED COVER.					
I215	RECESSED FLOOR BOX	HUBBELL #RF406BR	120/1/3W	-	NEMA 5-20R	3#12 IN 1/2"	-	GC						
I217	5-TIER HOT DISPLAY	RPI NUTTALL FLEXESERVE #FXZNIA1055	208/1/3W	28.7	NEMA 6-30P	3#10 IN 1/2" C	*	QT	*NOTE 5					
I218	END CAP FLOOR COOLER	OASIS FSE63R	120/1/3W	7.8	NEMA 5-20R	3#12 IN 1/2"	18"	QT						
I300	POINT OF SALE	NCR REALPOS XRT PLUS (T103)	120/1/3W	2.2	NEMA 5-20R	3#12 IN 1/2"	*	QT	*NOTE 6					
I301	INTERCOM MICROPHONE	TMK-4I	120/1/3W	2.0	NEMA 5-20R	3#12 IN 1/2"	*	QT	*NOTE 6					
I304	COMPUTER		120/1/3W	15	NEMA 5-20R	3#12 IN 1/2"	*	QT	*NOTE 6					
I305	LOTTO MACHINE		120/1/3W	15	NEMA 5-20R	3#12 IN 1/2"	*	QT	*NOTE 6					
I306	CASH CONTROLLER SAFE		120/1/3W	15	NEMA 5-20R	3#12 IN 1/2"	*	QT	*NOTE 6					
I307	BILL READER SAFE		120/1/3W	15	NEMA 5-20R	3#12 IN 1/2"	*	QT	*NOTE 6					
I310	PRINTER/COPIER	LASERJET PRO MFP	120/1/3W	5.0	NEMA 5-20R	3#12 IN 1/2"	*	QT	*NOTE 6					
I311	COUNTERTOP REFRIGERATOR		120/1/3W	1.5	NEMA 5-20R	3#12 IN 1/2"	30"	QT						
I401	ANTHONY COOLER DOOR		120/1/3W	6.0	N.F.D.S.	3#12 IN 1/2"	TOP OF FRAME	QT						
I405	ICE MERCHANTISER	TRUE GDM-49NT-LD	120/1/3W	10.2	NEMA 5-20R	3#12 IN 1/2"	18"	QT						
I406	NOVELTY ICE CREAM	TRUE GDM-26-HC-TSL01	120/1/3W	5.4	NEMA 5-20R	3#12 IN 1/2"	18"	QT						
I500	ICE BAGGER	FOLLETT #DB1000	208/1/3W	5.0	NEMA 6-15R	3#12 IN 1/2"	SEE PLANS	QT						
I501	AIR COMPRESSOR	MULTIPLEX APV13D	120/1/3W	6.0	NEMA 5-20R	3#12 IN 1/2"	26"	QT						
I504	MULTIPLEX	MULTIPLEX #50MR04	208/3/4W	17.0	HARDWIRED	4#10 IN 1/2" C	84"	QT	PROVIDE 20A CIRCUIT BREAKER IN ENCLOSURE FOR DISCONNECT.					
I510	WATER HEATER	RWUD E85A-27-6	208/3/4W	75.0	SEE NOTE	3#3 1/0 1#0 IN 1-1/4" C	48"	PC	PROVIDE 100A CIRCUIT BREAKER IN ENCLOSURE FOR DISCONNECT.					
I511	ELECTRICAL PANELS							QT	REFER TO PANEL SCHEDULES & E503					
I512	LOW VOLTAGE CABINET							QT	REFER TO SHEET E503					
I513	UPS	TRIPPLITE SU2200RTLCD2U	120/1/3W	16.0	NEMA 5-20R	3#12 IN 1/2"	108"	QT	REFER TO SHEET E503					
I515	NOT USED							QT						
I516	BOOSTER PUMP - OPTIONAL	GOULD'S #55V	208/3/5W	15.0	N.F.D.S.	5#10 IN 1/2" C	34"	QT	PROVIDE SQUARE-D D3231 DISCONNECT SWITCH					
I517	CONTROLLER	AQUAVAR CPC #2012I		-	-	-	-	QT	INTEGRAL PRESSURE TRANSDUCER.					
I520	AIR DOOR	BERNER #LC08-1042AA	120/1/3W	3.4	HARDWIRED	3#12 1/2".	46"	QT	PROVIDE MOTOR RATED SWITCH FOR DISCONNECT.					
I521	RECIRCULATION PUMP	GRUNDfos #UP-15-18 BUC-1	120/1/3W	1.7	NEMA 5-20R	3#12 IN 1/2"	104"	PC	PROVIDE LINE CORD. RE: PLUMBING SHEETS.					
I526	SECURITY CABINET							QT						
I527	CONDENSATE PUMP	LITTLE GIANT VCG-20ULS 554200	120/1/3W	1.5	NEMA 5-20R	3#12 IN 1/2"	18"	PC						
I531	ELECTRIC HEATER	MARKEL #H3316-T2-RPW	208/1/3W	14.4	HARDWIRED	3#12 IN 1/2"	108"	QT	NOTE 3					
I534	ICE MAKER FOR BAGGER	MANITOWOC #YT1900N	208/3/4W	13.0	NEMA 15-20R	4#12 IN 1/2"	SEE PLANS	QT	NOTE 8 / REMOTE CONDENSER #JC-1345A (EQUIP #407)					
I546	CO2 VENTILATION FAN	CAPTIVEAIRE DPA-300-CA	120/1/3W	2.5	HARDWIRED	3#12 IN 1/2"	SEE PLANS	QT	PROVIDE MOTOR RATED SWITCH FOR DISCONNECT ON ADJACENT STRUCTURE.					
I550	FREEZER HEAT TRACE	RAYCHEM #W51-18P	120/1/3W	0.8	NEMA 5-20R	3#12 IN 1/2"	96"	PC	PROVIDE WP COVER WITH GFCI.					
I600	PASTRY CASE	ENCORE CDR5123	120/1/3W	3.4	NEMA 5-15R	3#12 IN 1/2"	-	QT						
I601	CUSTOMER ORDER MACHINE	HEWLETT PACKARD #RP9 G1 #1018	120/1/3W	1.9	NEMA 5-20R	3#12 IN 1/2"	26"	QT						
I603	BLENDER	VITAMIX #36019	120/1/3W	15.0	NEMA 5-20R	3#12 IN 1/2"	*	QT	*NOTE 5					
I604	UNDERCOUNTER FREEZER	TRUE #TUC-2F	120/1/3W	3.2	NEMA 5-15R	3#12 IN 1/2"	*	QT	*NOTE 5					
I606	ICE CREAM MACHINE	STOELTING SF-144	208/1/3W	11.0	NEMA 6-20R	3#12 IN 1/2"	*	QT	*NOTE 5					
I610	UNDERCOUNTER REFRIGERATOR	TRUE #TUC-27	120/1/3W	3.4	NEMA 5-15R	3#12 IN 1/2"	18"	QT						
I611	DISHWASHER	MOYER DIEBEL #201HT-M4, 9KW BOOSTER	120/208/1/4W	45.0	NEMA 14-60R	4#6 IN 1/2"	18"	QT						
I618	LCD SCREEN		120/1/3W	2.0	NEMA 5-20R	3#12 IN 1/2"	*	QT	*NOTE 5					
I621	PIZZA OVEN	OVENTION #SHUTTLE	208/1/3W	45	HARDWIRED	3#6 IN 3/4" C	16"	QT	NOTE II					
I622	60" PIZZA COLD PREP TABLE	TRUE #T56-60-16	120/1/3W	1.8	NEMA 5-15R	3#12 IN 1/2"	*	QT	*NOTE 5					
I632	SUB OVEN	ACP #MRX2QT	208/1/3W	23.5	NEMA 6-30R</td									