

MECHANICAL VENTILATION & AIR BALANCE SCHEDULE

UNIT	ROOM NO.	ROOM NAME	AREA (SQ.FT.)	CLG. HT.	VOLUME (CU.FT.)	OCCUPANCY (PEOPLE)	MIN. CFM ON PER PERSON	CFM PER SQ. FT.	TOILET FIXTURE (QTY.)	MIN. EXH. CFM/TOILET FIXTURE	CODE MIN. O/A	MIN. EXH. O/A	ACTUAL CFM	REMARKS	
RTU-1	105C	1ST FLOOR CORRIDOR	1,023	8'-4"	8,895	-	-	0.06	-	-	61	-	620	61	-
	108	MAINTENANCE SHOP	291	9'-0"	2,619	4	5	0.12	-	-	55	-	180	55	-
	108A	JANITOR'S CLOSET	17	9'-0"	153	-	-	-	-	-	50	-	-	75	EF-2
	205C	2ND FLOOR CORRIDOR	1,023	8'-4"	8,895	-	-	0.06	-	-	61	-	620	61	-
	204	STORAGE	291	9'-0"	2,619	-	-	0.06	-	-	17	-	170	17	-
	204A	JANITOR'S CLOSET	17	9'-0"	153	-	-	-	-	-	50	-	-	75	EF-2
	305C	3RD FLOOR CORRIDOR	1,023	8'-4"	8,895	-	-	0.06	-	-	61	-	620	61	-
	304	STORAGE	291	9'-0"	2,619	-	-	0.06	-	-	17	-	170	17	-
	304A	JANITOR'S CLOSET	17	9'-0"	153	-	-	-	-	-	50	-	-	75	EF-2
		TOTAL		3,983		34,401	4						2,380	2,380	272
RTU-2	100	VESTIBULE	72	9'-0"	648	-	-	0.06	-	-	4	-	50	4	-
	101	LOBBY	462		4,158	5	7.5	0.06	-	-	65	-	240	65	-
	102	MAIL	154		1,386	2	5	0.06	-	-	19	-	90	19	-
	103	VESTIBULE	61		549	-	-	0.06	-	-	4	-	50	4	-
	104	STORAGE	77		693	-	-	0.12	-	-	9	-	50	9	-
	105B	1ST FLOOR CORRIDOR	1,344	8'-4"	11,424	-	-	0.06	-	-	81	-	850	81	-
	106	STORAGE	159	9'-0"	1,431	-	-	0.12	-	-	19	-	95	19	-
	107	STORAGE	33		297	-	-	0.12	-	-	4	-	-	4	-
	200	LOBBY	603		5,427	6	7.5	0.06	-	-	81	-	340	81	-
	201	ELECTRICAL ROOM	151		1,359	-	-	0.12	-	-	18	-	90	18	-
202	STORAGE	33		297	-	-	0.12	-	-	4	-	-	4	-	
203	MECHANICAL ROOM	159		1,431	-	-	0.12	-	-	19	-	95	19	-	
205B	2ND FLOOR CORRIDOR	1,131	8'-4"	9,813	-	-	0.06	-	-	68	-	700	68	-	
300	LOBBY	603		5,427	6	7.5	0.06	-	-	81	-	340	81	-	
301	ELECTRICAL ROOM	151		1,359	-	-	0.12	-	-	18	-	90	18	-	
302	STORAGE	33		297	-	-	0.12	-	-	4	-	-	4	-	
303	MECHANICAL ROOM	159		1,431	-	-	0.12	-	-	19	-	95	19	-	
305B	3RD FLOOR CORRIDOR	1,131	8'-4"	9,813	-	-	0.06	-	-	68	-	700	68	-	
	TOTAL		6,517		56,840	19						3,075	3,075	385	-
RTU-3	105A	1ST FLOOR CORRIDOR	577	8'-4"	4,954	-	-	0.06	-	-	35	-	390	35	-
	205A	2ND FLOOR CORRIDOR	577		4,954	-	-	0.06	-	-	35	-	390	35	-
	305A	3RD FLOOR CORRIDOR	577		4,954	-	-	0.06	-	-	35	-	390	35	-
		TOTAL		1,731		14,712	-	-	-	-			1,170	1,170	105

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

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NO.	DATE	DESCRIPTION

TWIN PONDS BUILDING 'C'
BLOCK 2173, LOT 21.01
HAMILTON TOWNSHIP, NEW JERSEY
For:
THE KAMSON CORPORATION

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CHECKED	J.E.S.	DATE	05/20/2024
APPROVED	J.E.S.	PROJECT NO.	202045
		SCALE	AS NOTED

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05/20/2024

SHEET TITLE
MECHANICAL FIRST FLOOR PLAN
DATE: 01/23/24 SHEET NO.
PROJ. NO. 202045
SCALE: AS NOTED **M2.00**



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

NO.	DATE	REVISIONS

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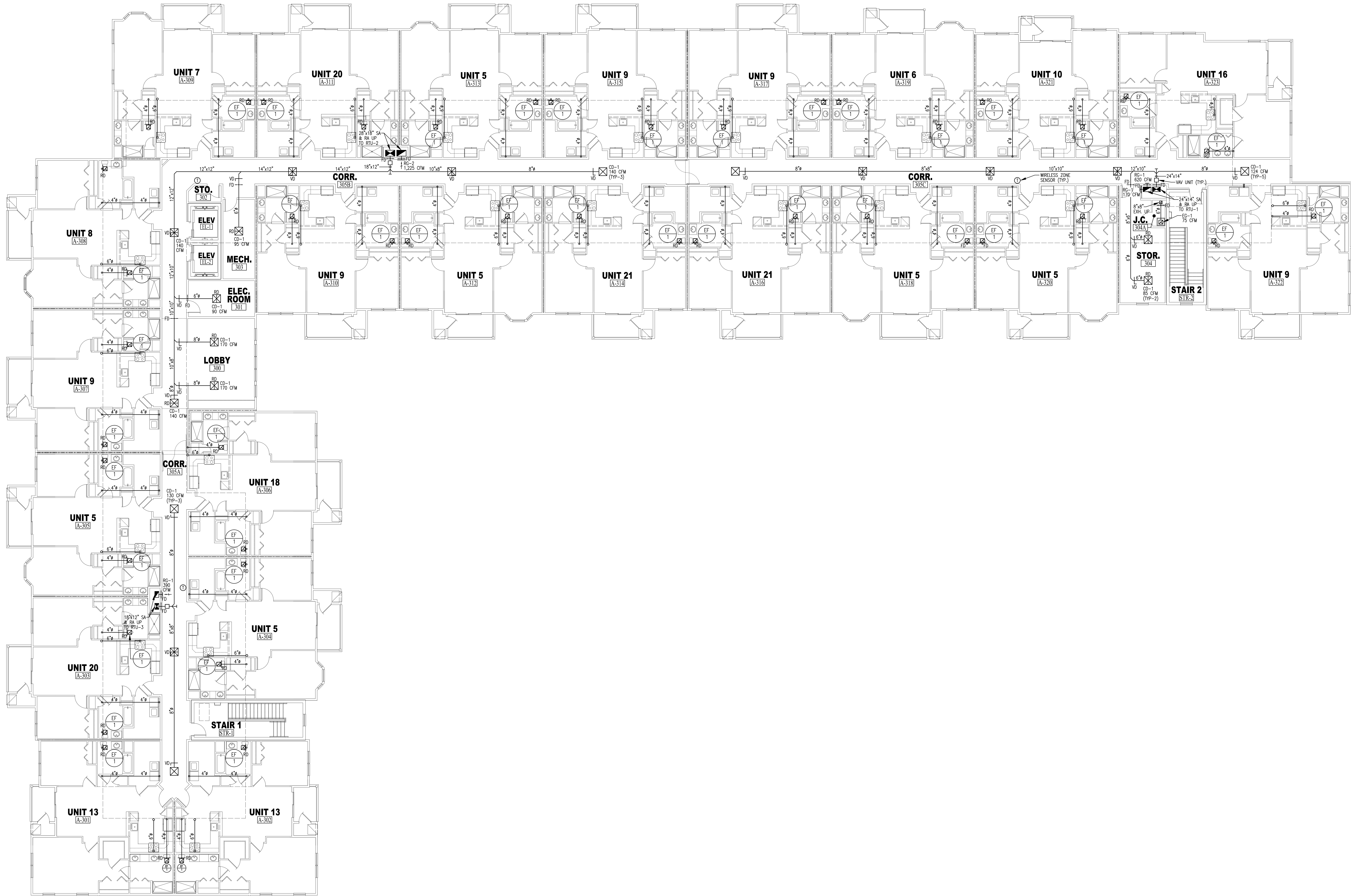
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THIRD FLOOR PLAN
SCALE: 1/8" = 1'-0"

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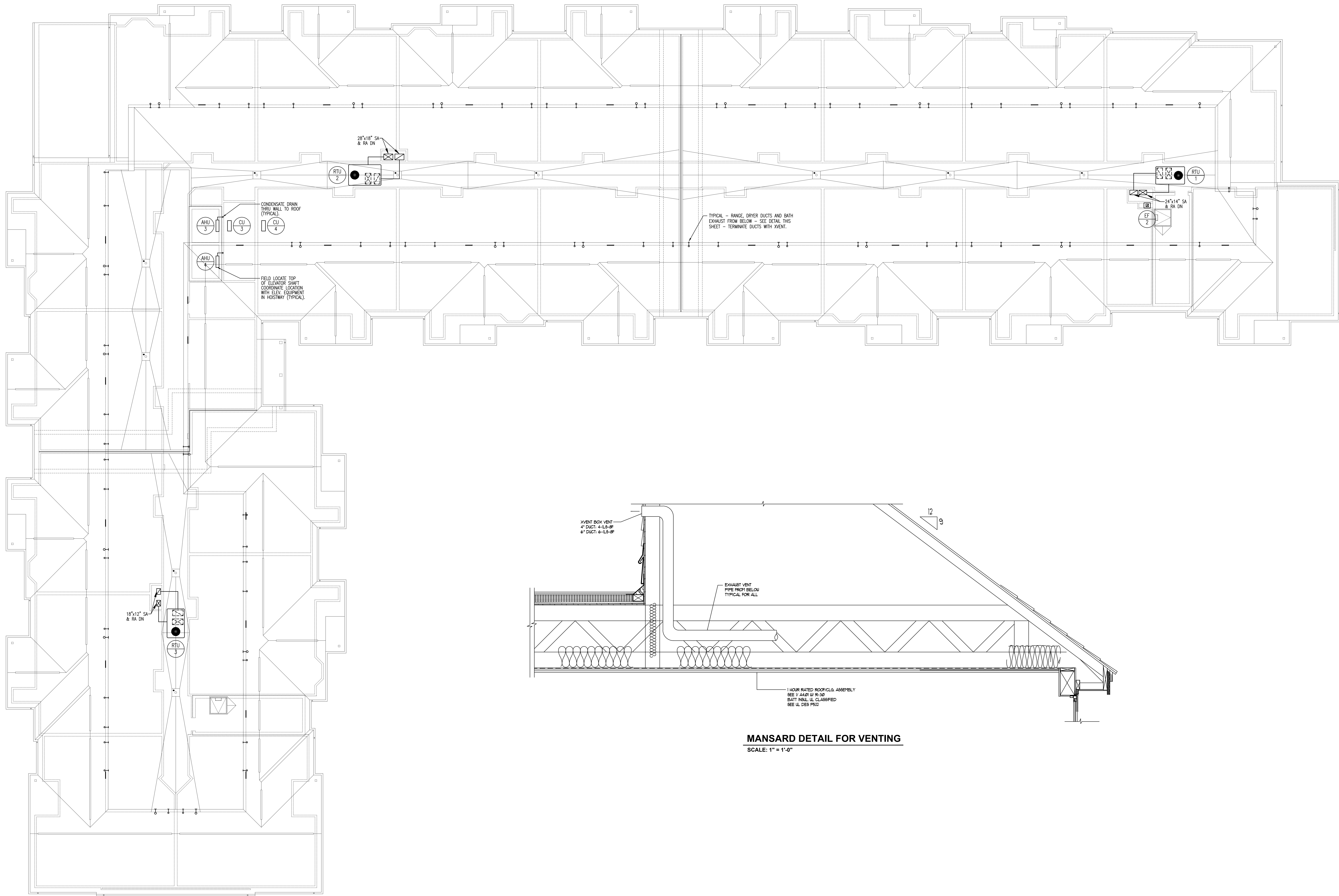
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DATE: 07/23/24	SHEET NO. 14.00
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ROOF PLAN
SCALE: 1/8" = 1'-0"

MANSARD DETAIL FOR VENTING
SCALE: 1" = 1'-0"

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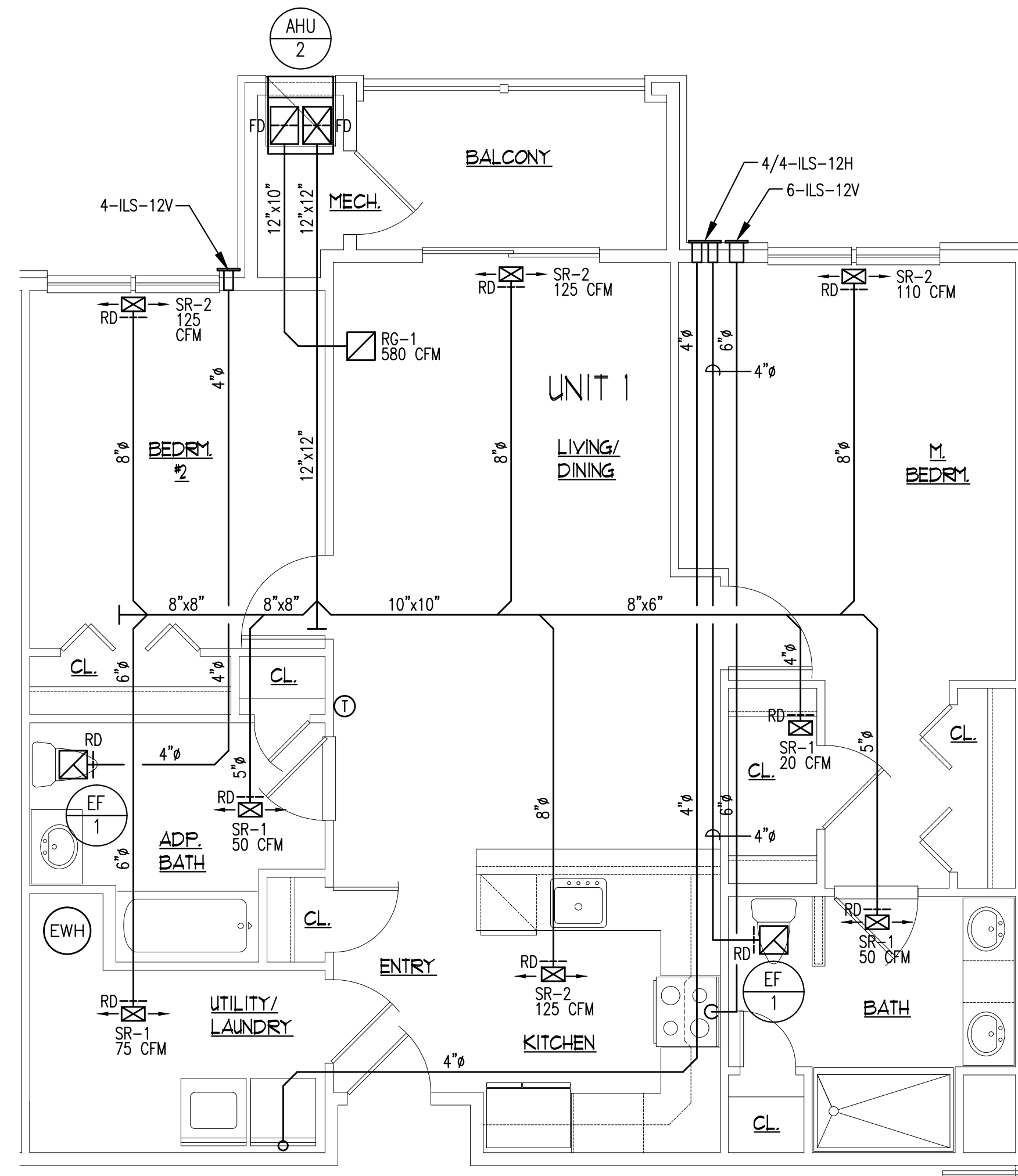
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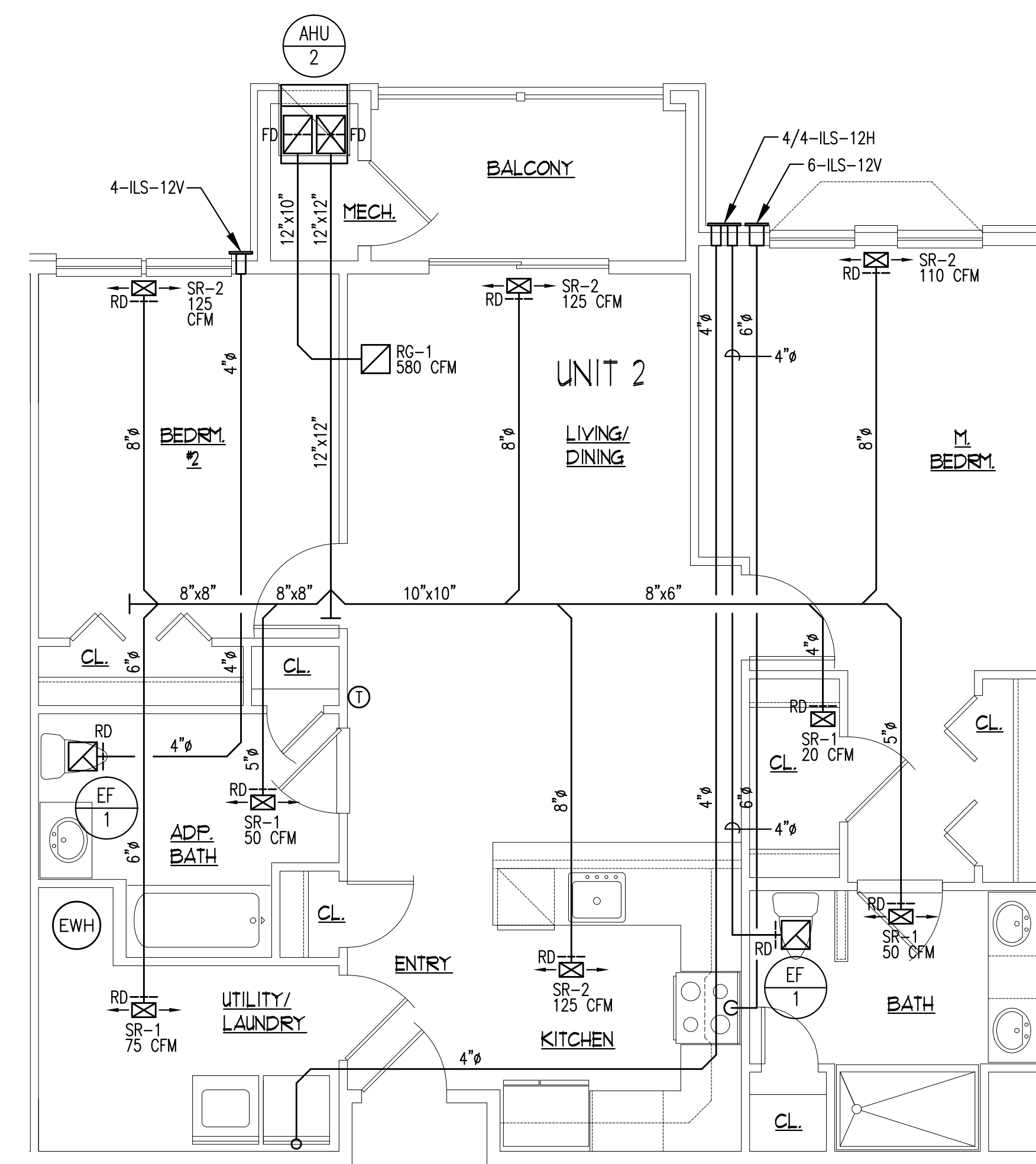
**MECHANICAL
ROOF PLAN**

DATE: 01/23/24 SHEET NO. M5.00
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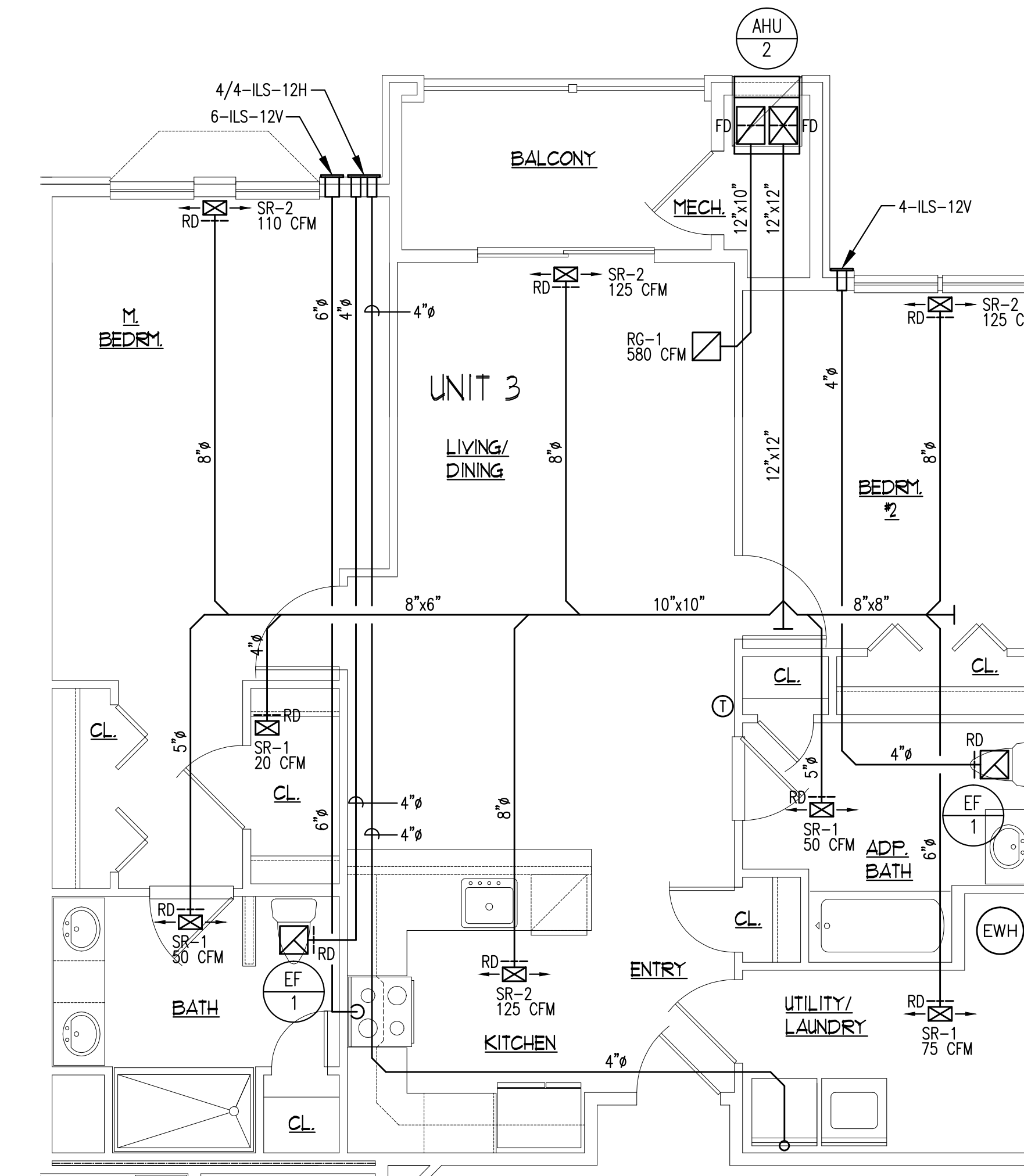
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SHEET No. 5 OF 9 DRAWER_X



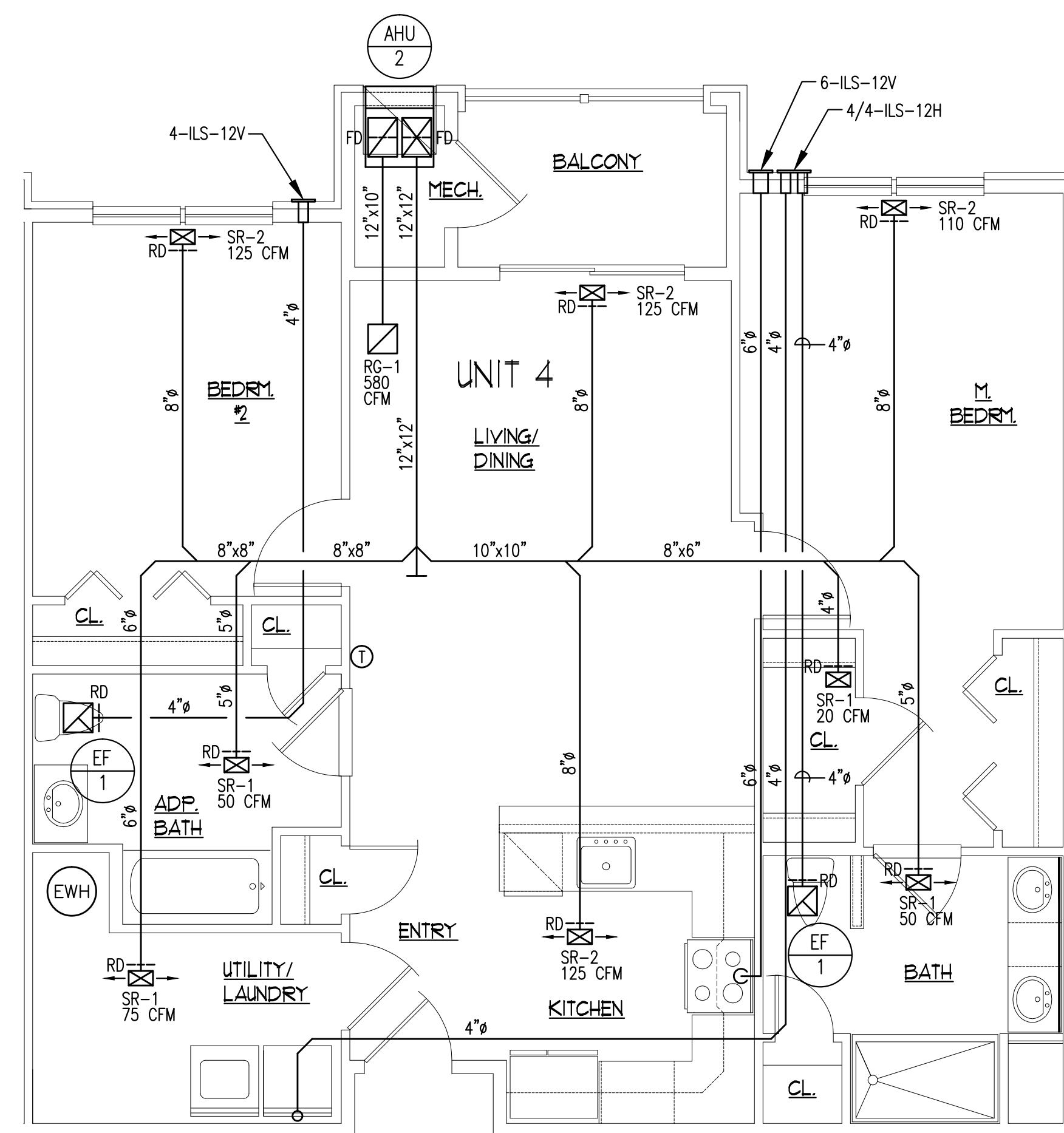
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SCALE: 1/4" = 1'-0"



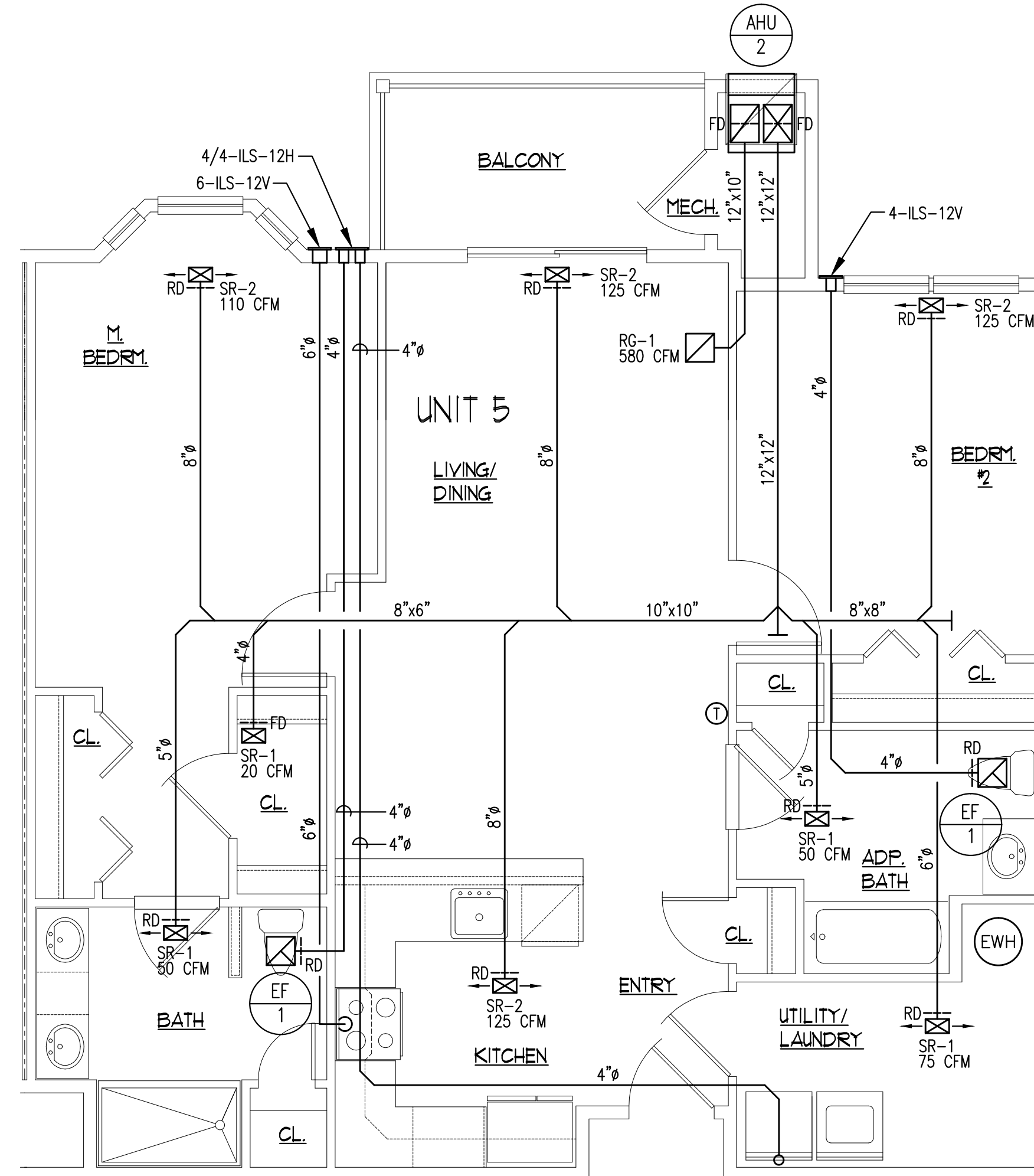
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SCALE: 1/4" = 1'-0"



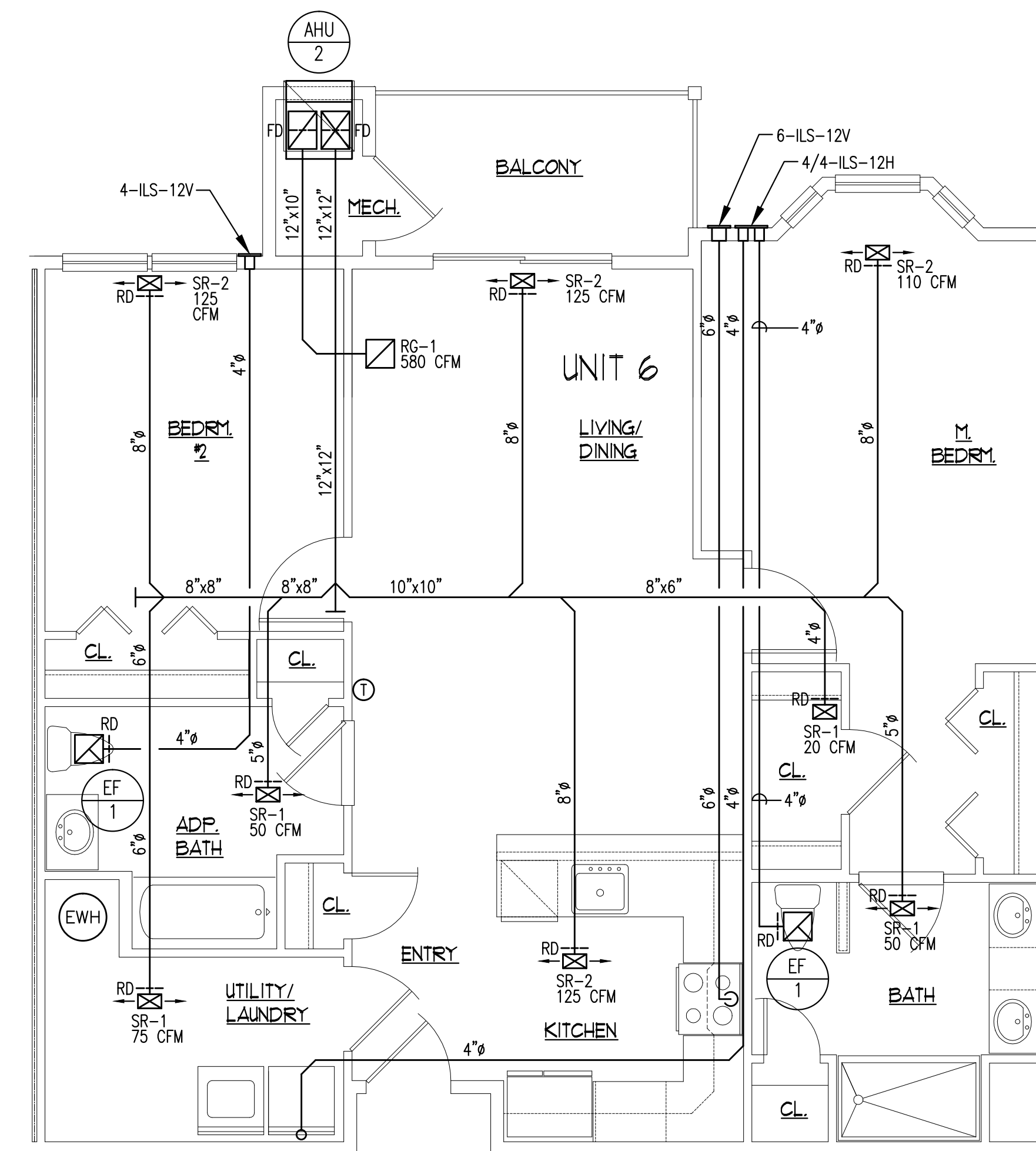
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SCALE: 1/4" = 1'-0"



UNIT TYPE 4 - (2) BEDROOM
SCALE: 1/4" = 1'-0"



UNIT TYPE 5 - (2) BEDROOM
SCALE: 1/4" = 1'-0"



UNIT TYPE 6 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

SEE THIRD FLOOR PLAN ON DWG. M4.00 FOR TYPICAL EXH. VENT LOCATIONS AT THIRD FLOOR CONDITION.

SEE THIRD FLOOR PLAN ON DWG. M4.00 FOR TYPICAL EXH. VENT LOCATIONS AT THIRD FLOOR CONDITION.

GENERAL NOTE:
EXHAUST VENTS TO DISCHARGE 3'-0" MIN. FROM OPERABLE DOORS/WINDOWS AND MIN. 10'-0" FROM MECHANICAL AIR INTAKES.

2 BEDROOM UNIT OUTSIDE AIR CALCULATION	
OUTSIDE AIR CALCULATION BASED ON THE 2021 IMC TABLE 403.3.1.1:	
PRIVATE SINGLE DWELLINGS	
# PEOPLE = 1 PERSON/BEDROOM + 1	
= 2 BEDROOMS + 1	
= 3 PEOPLE	
LIVING AREA	45
15 CFM/PERSON x 3 PEOPLE =	VENTILATION: 45 CFM
KITCHEN:	
25 CFM CONTINUOUS OR	EXHAUST: 100 CFM
100 CFM INTERMITTENT	
TOILET ROOMS & BATHROOMS:	
20 CFM CONTINUOUS OR	EXHAUST: 50 CFM
50 CFM INTERMITTENT	
MINIMUM VENTILATION REQUIRED:	45 CFM
MINIMUM VENTILATION PROVIDED:	45 CFM

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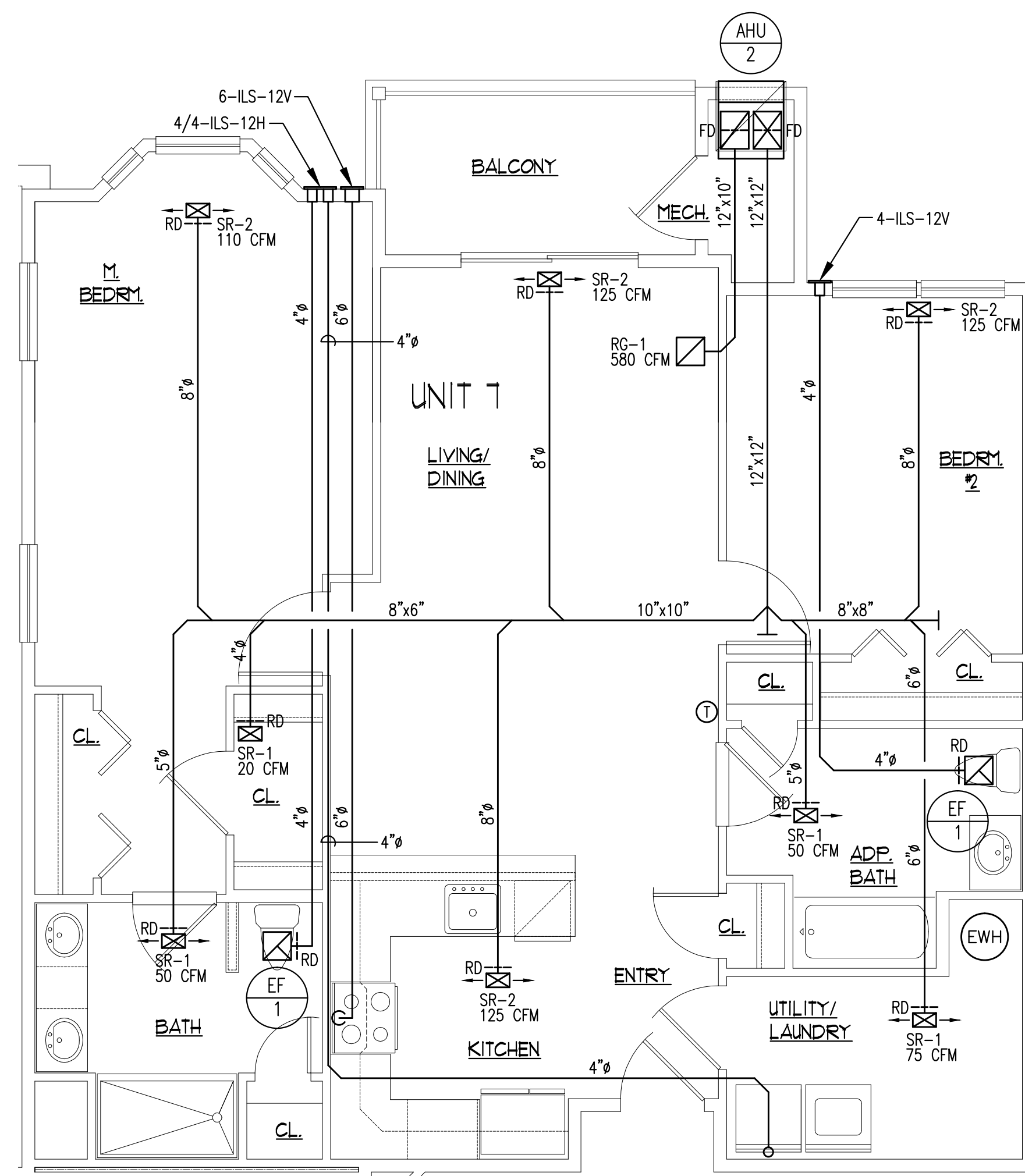
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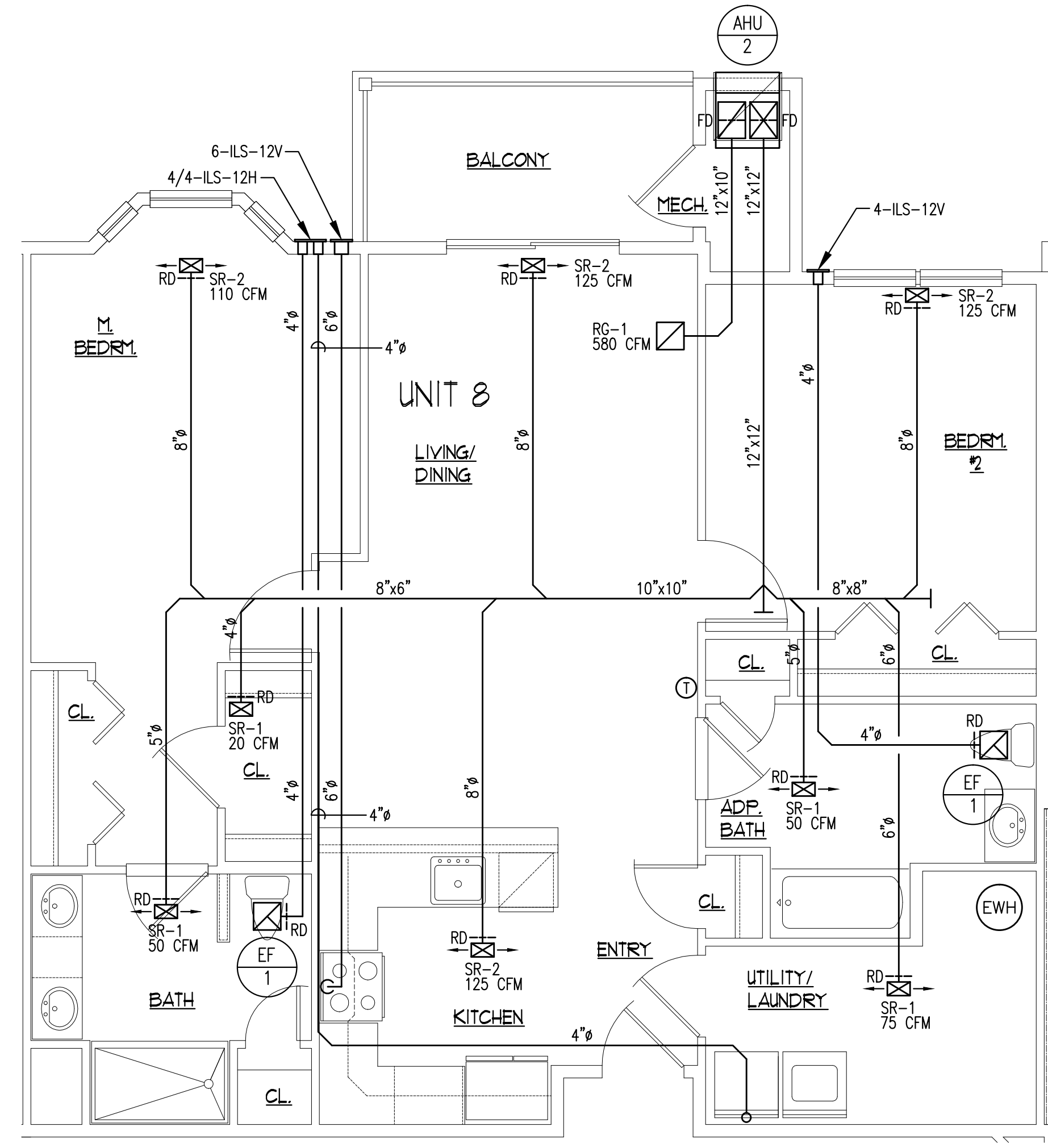
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PROJ. NO.	20045		M6.00
SCALE:	AS NOTED		



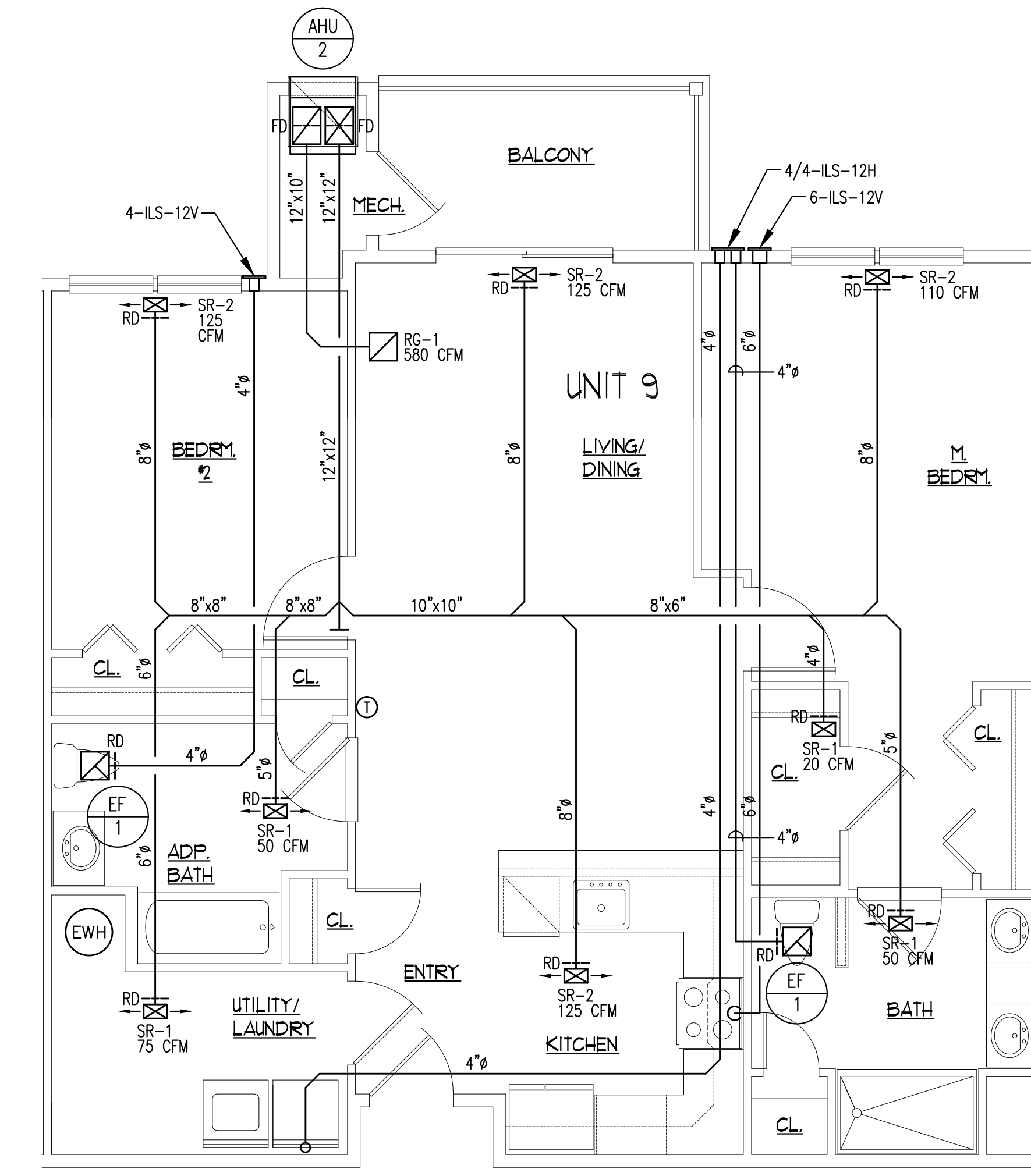
UNIT TYPE 7 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

SEE THIRD FLOOR PLAN ON DWG. M4.00 FOR TYPICAL EXH. VENT LOCATIONS AT THIRD FLOOR CONDITION.



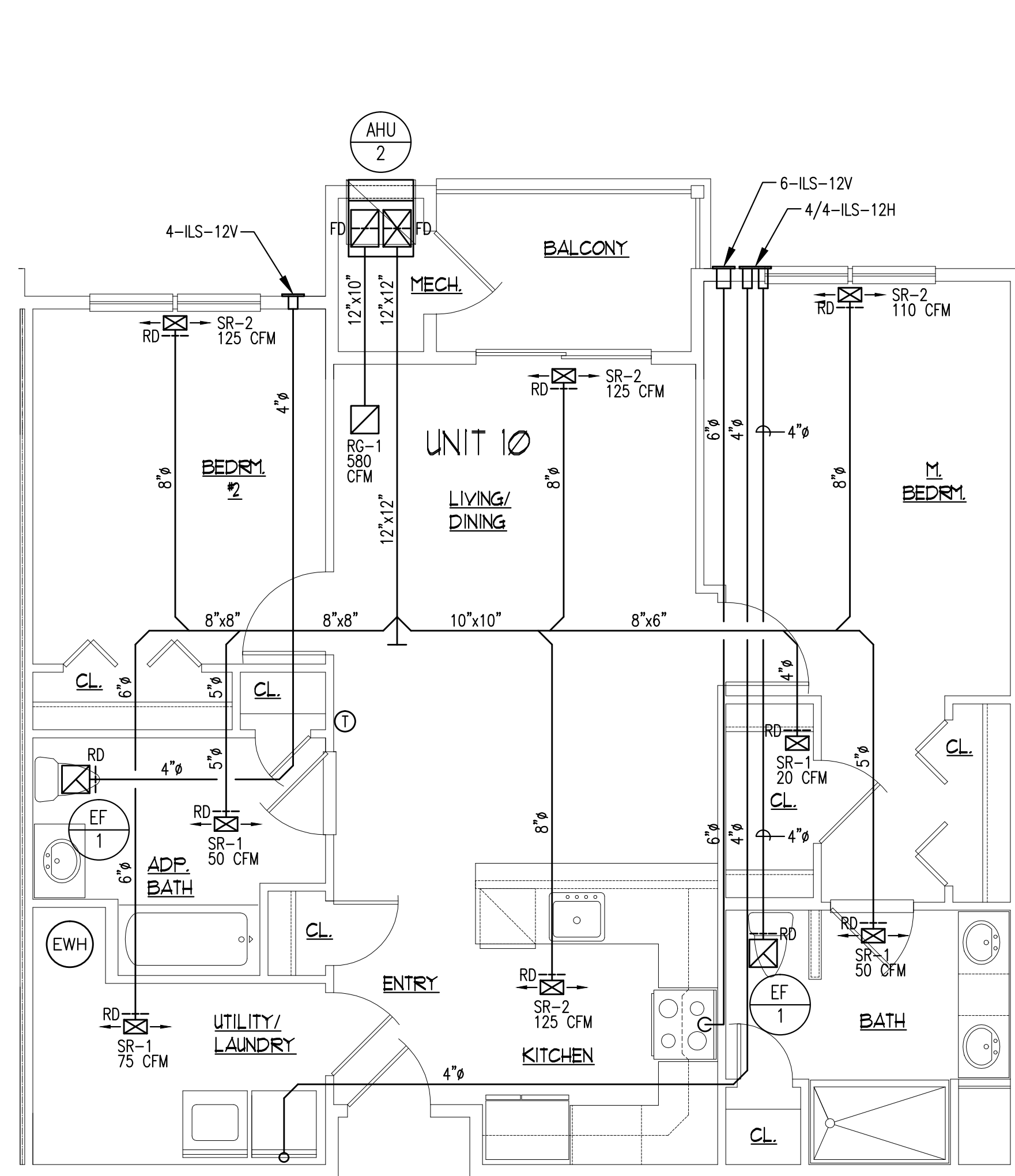
UNIT TYPE 8 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

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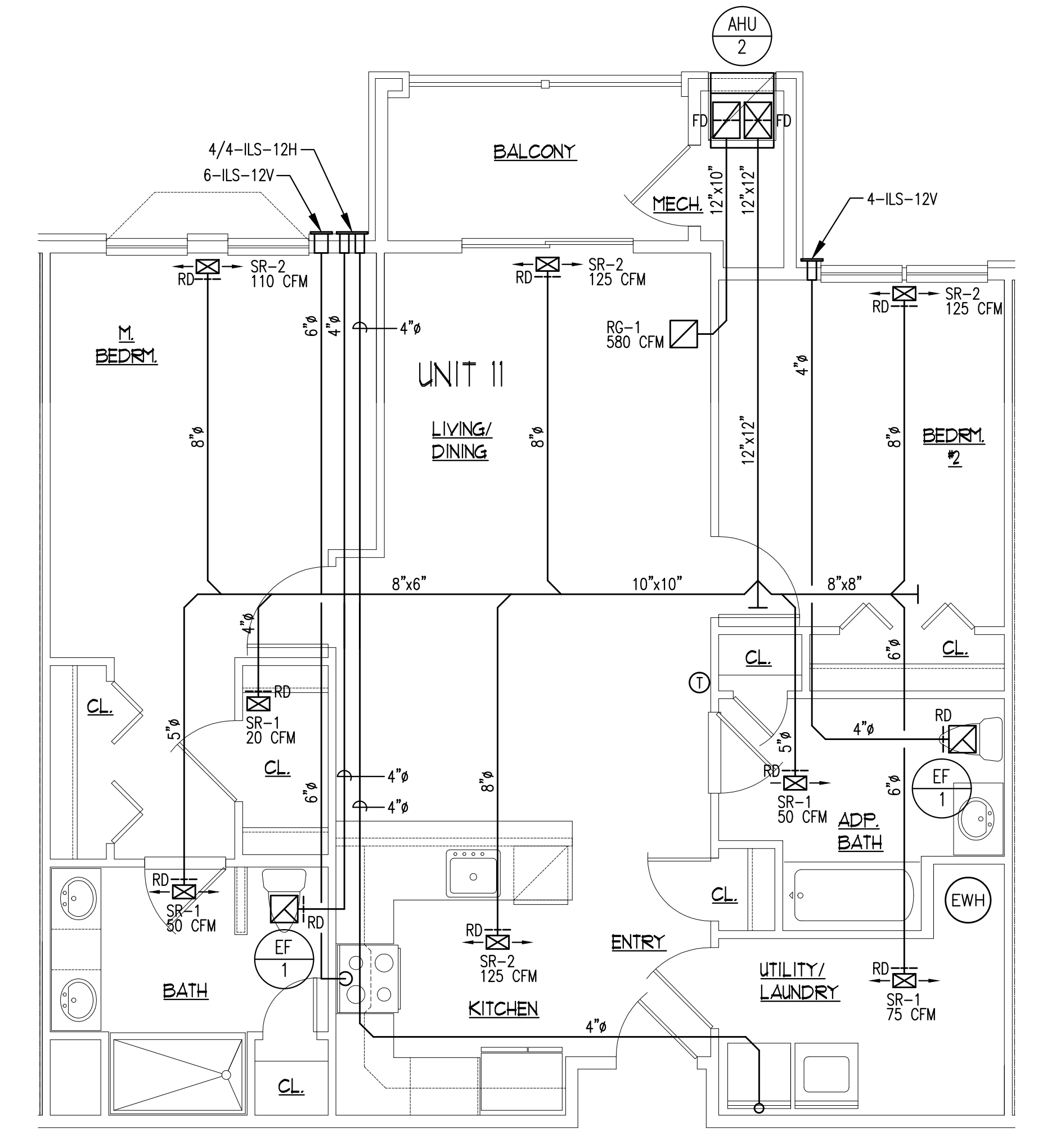
UNIT TYPE 9 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

SEE THIRD FLOOR PLAN ON DWG. M4.00 FOR TYPICAL EXH. VENT LOCATIONS AT THIRD FLOOR CONDITION.



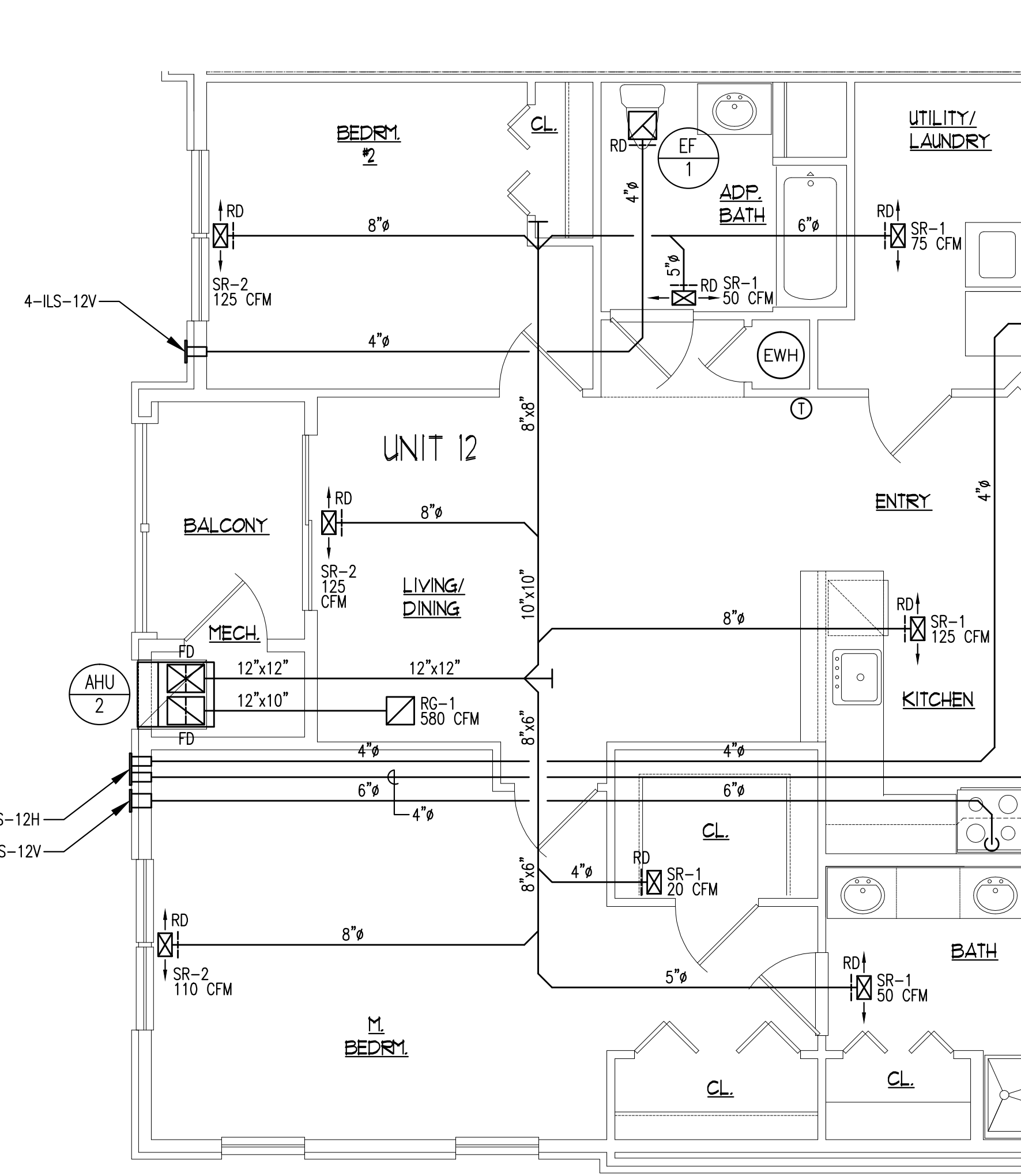
UNIT TYPE 10 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

SEE THIRD FLOOR PLAN ON DWG. M4.00 FOR TYPICAL EXH. VENT LOCATIONS AT THIRD FLOOR CONDITION.



UNIT TYPE 11 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

GENERAL NOTE:
EXHAUST VENTS TO DISCHARGE 3'-0" MIN. FROM OPERABLE DOORS/WINDOWS AND MIN. 10'-0" FROM MECHANICAL AIR INTAKES.



UNIT TYPE 12 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

**2 BEDROOM UNIT
OUTSIDE AIR CALCULATION**

OUTSIDE AIR CALCULATION BASED ON THE 2021 IMC TABLE 403.3.1.1:

PRIVATE SINGLE DWELLINGS	
# PEOPLE = 1 PERSON/BEDROOM + 1	
= 2 BEDROOMS + 1	
= 3 PEOPLE	
LIVING AREA:	
15 CFM/PERSON x 3 PEOPLE =	45
VENTILATION:	45 CFM
KITCHEN:	
25 CFM CONTINUOUS OR	
100 CFM INTERMITTENT	
EXHAUST:	100 CFM
TOILET ROOMS & BATHROOMS:	
20 CFM CONTINUOUS OR	
50 CFM INTERMITTENT	
EXHAUST:	50 CFM
MINIMUM VENTILATION REQUIRED:	45 CFM
MINIMUM VENTILATION PROVIDED:	45 CFM

NO.	DATE	DESCRIPTION

TWIN PONDS
BUILDING 'C'
BLOCK 2173, LOT 21.01
HAMILTON TOWNSHIP, NEW JERSEY
FOR:
THE KAMSON CORPORATION

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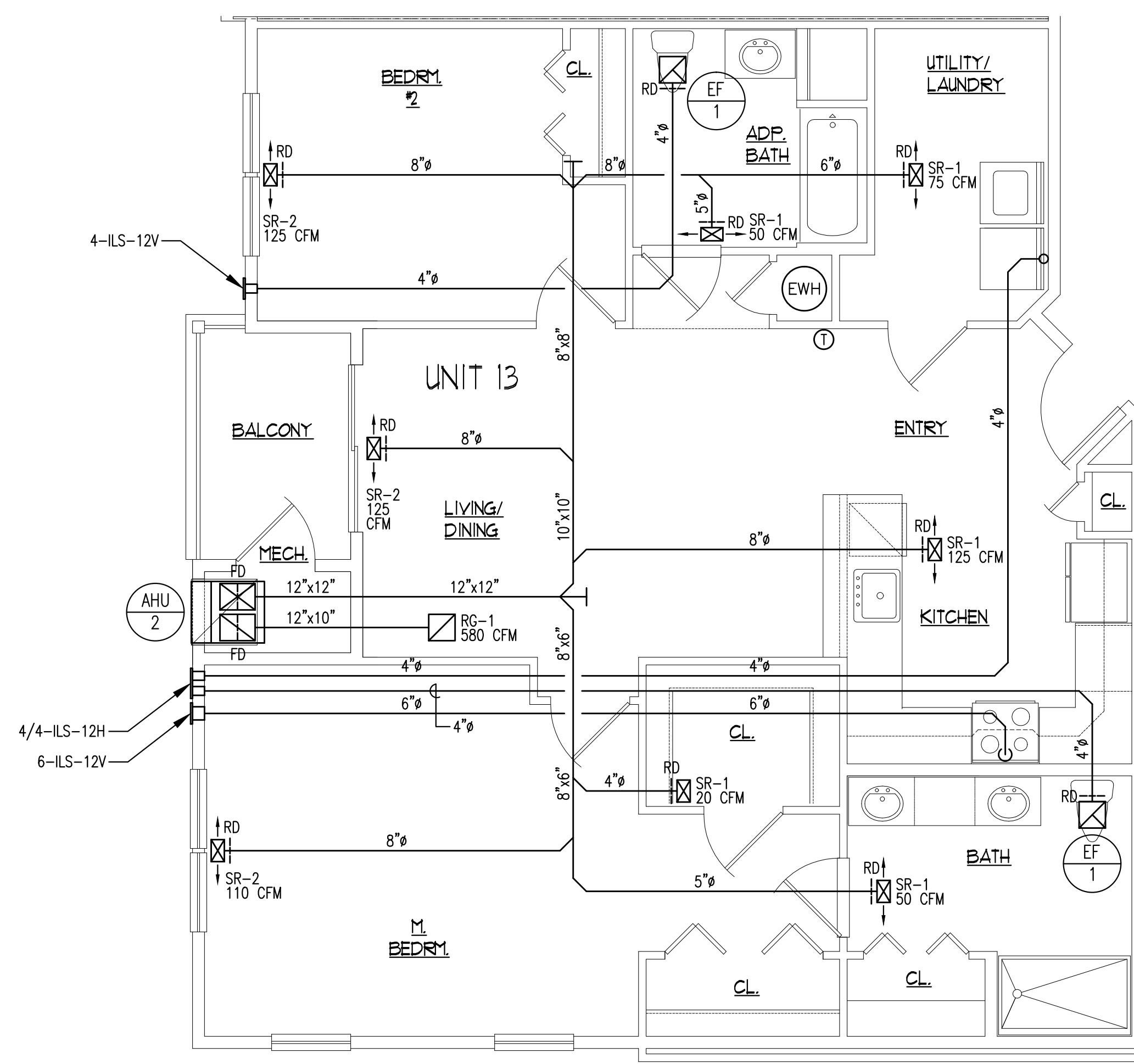
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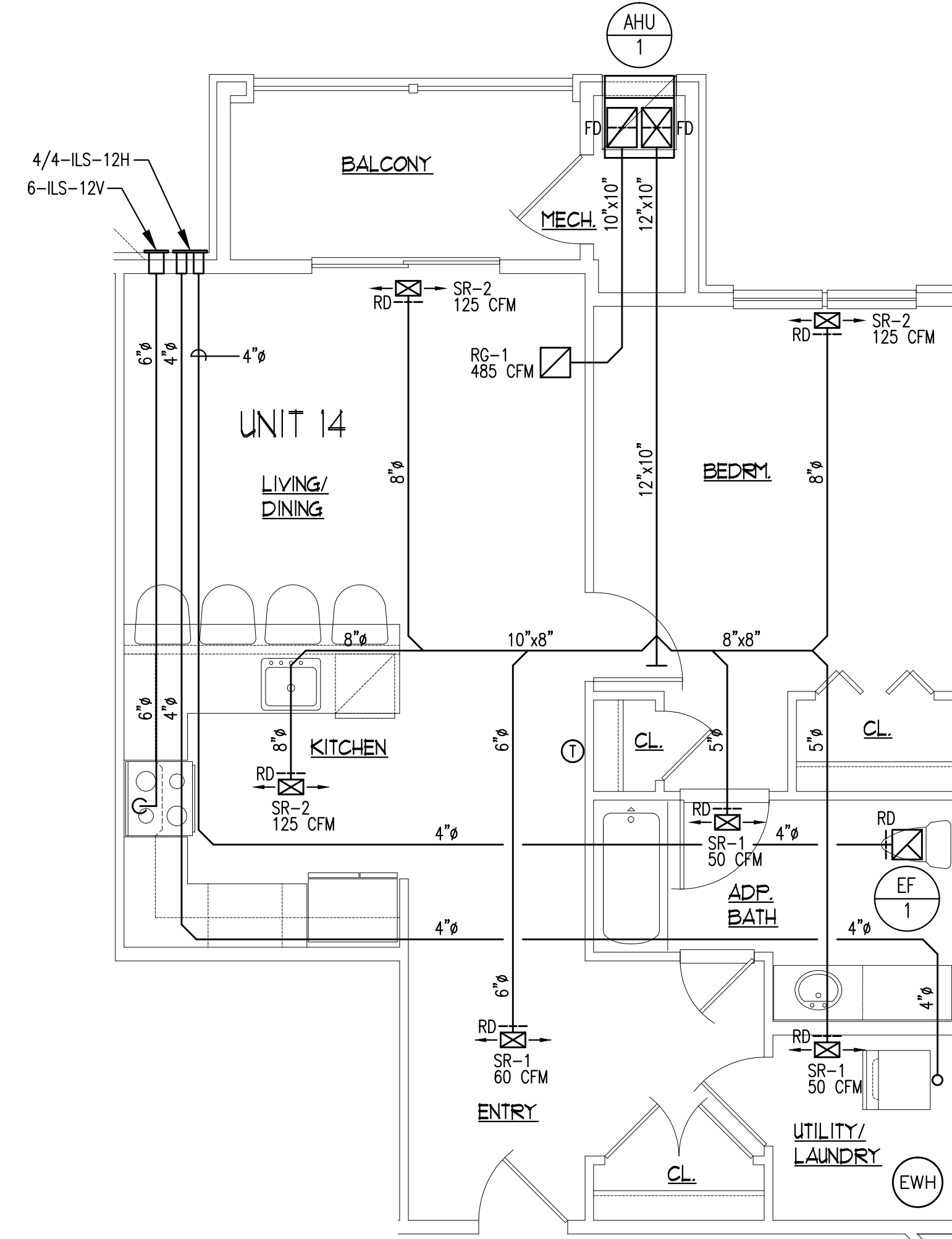
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DATE:	01/23/24	SHEET NO.	
PROJ. NO.	20045		M7.00
SCALE:	AS NOTED		

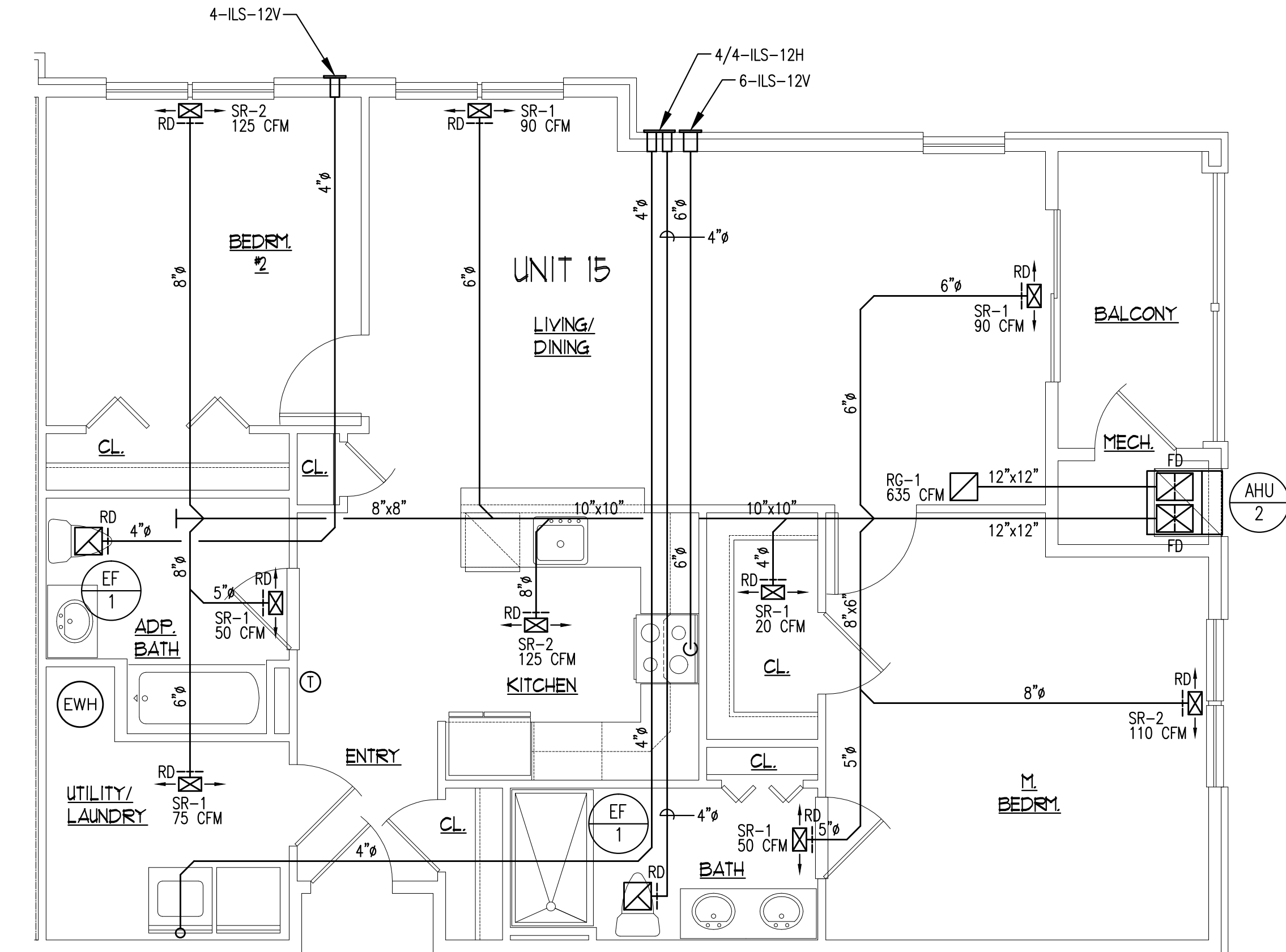


UNIT TYPE 13 - (2) BEDROOM
 SCALE: 1/4" = 1'-0"

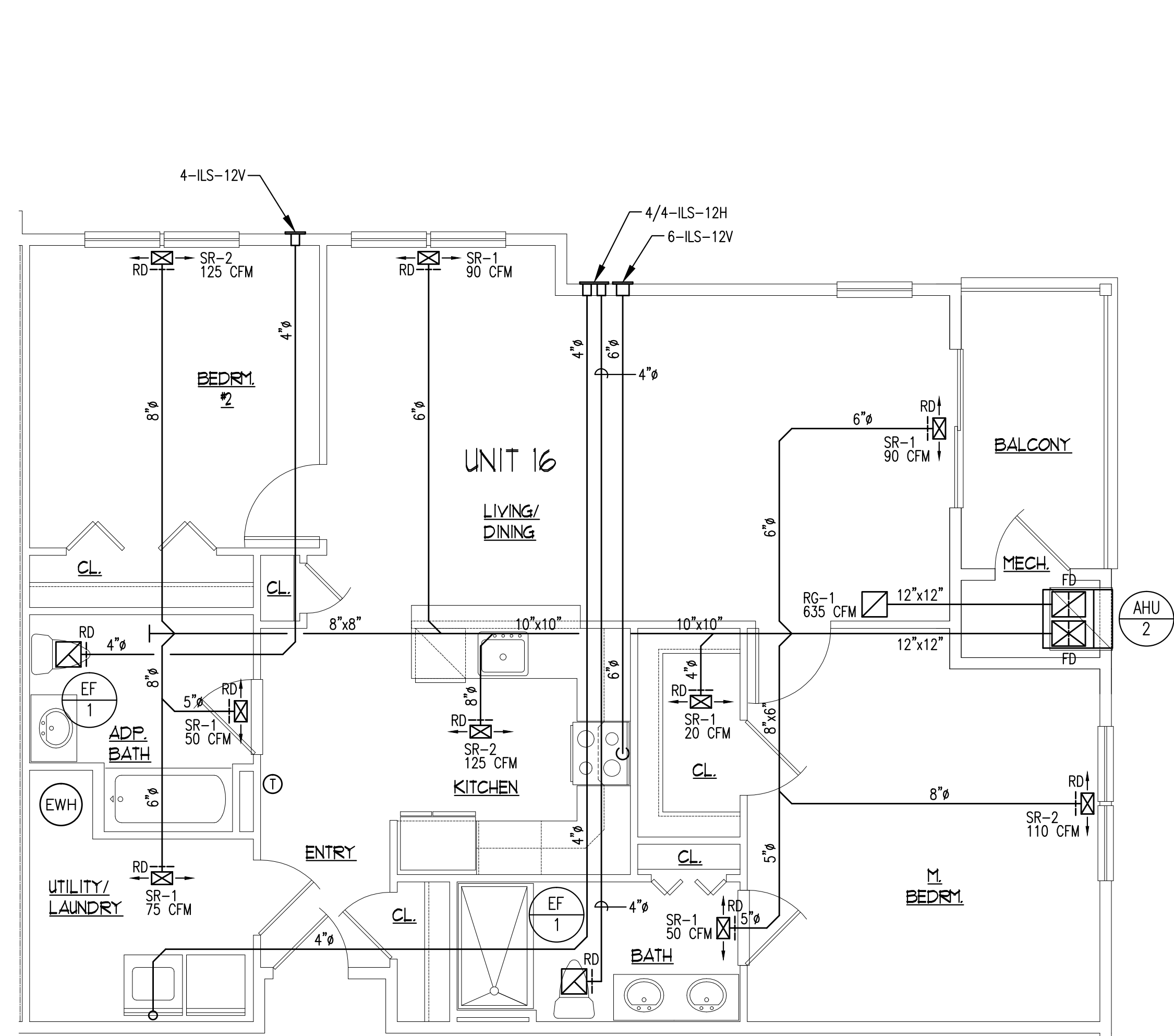
SEE THIRD FLOOR PLAN ON DWG. M4.00 FOR TYPICAL EXH. VENT LOCATIONS AT THIRD FLOOR CONDITION.



UNIT TYPE 14 - (1) BEDROOM
 SCALE: 1/4" = 1'-0"

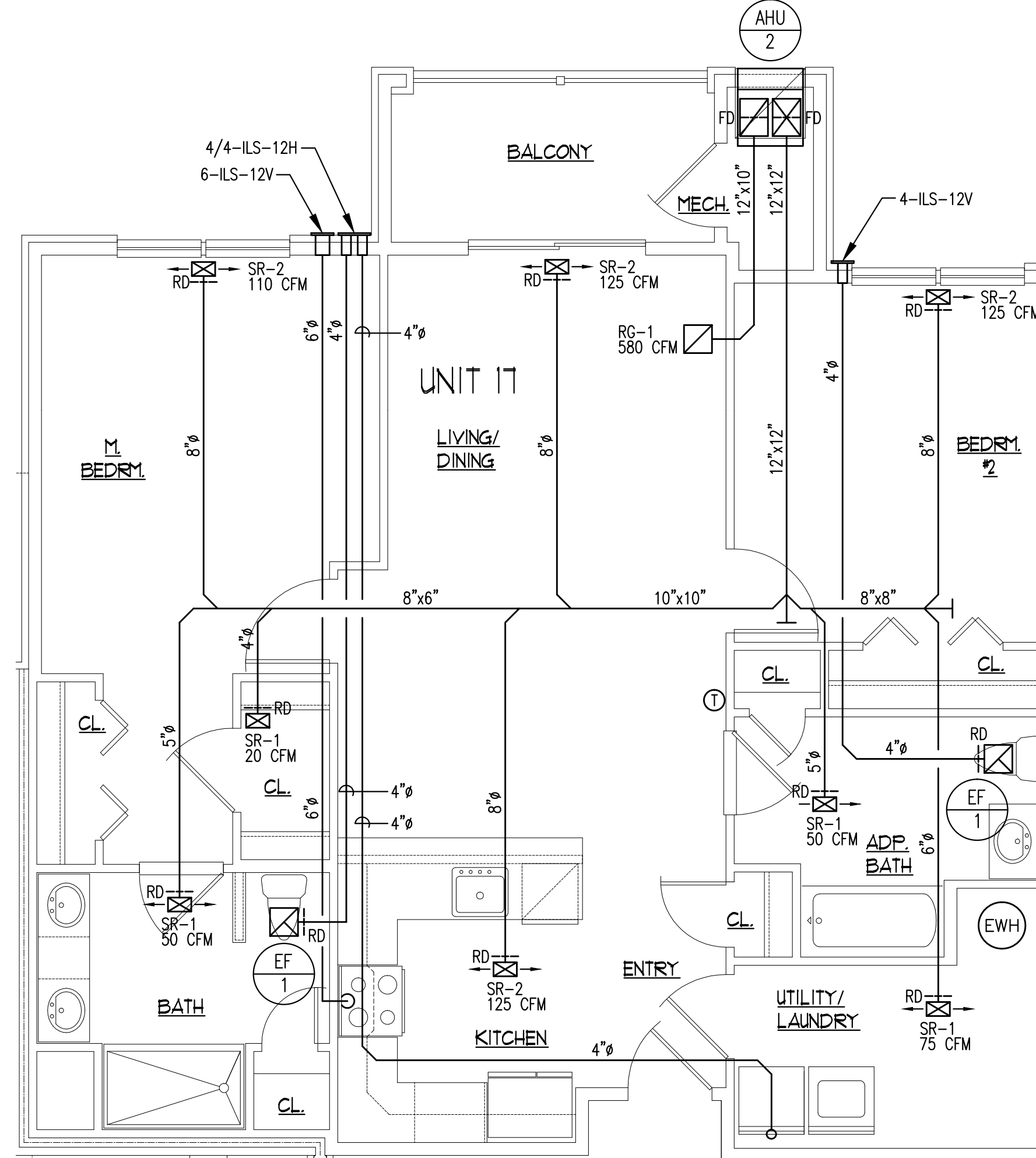


UNIT TYPE 15 - (2) BEDROOM
 SCALE: 1/4" = 1'-0"

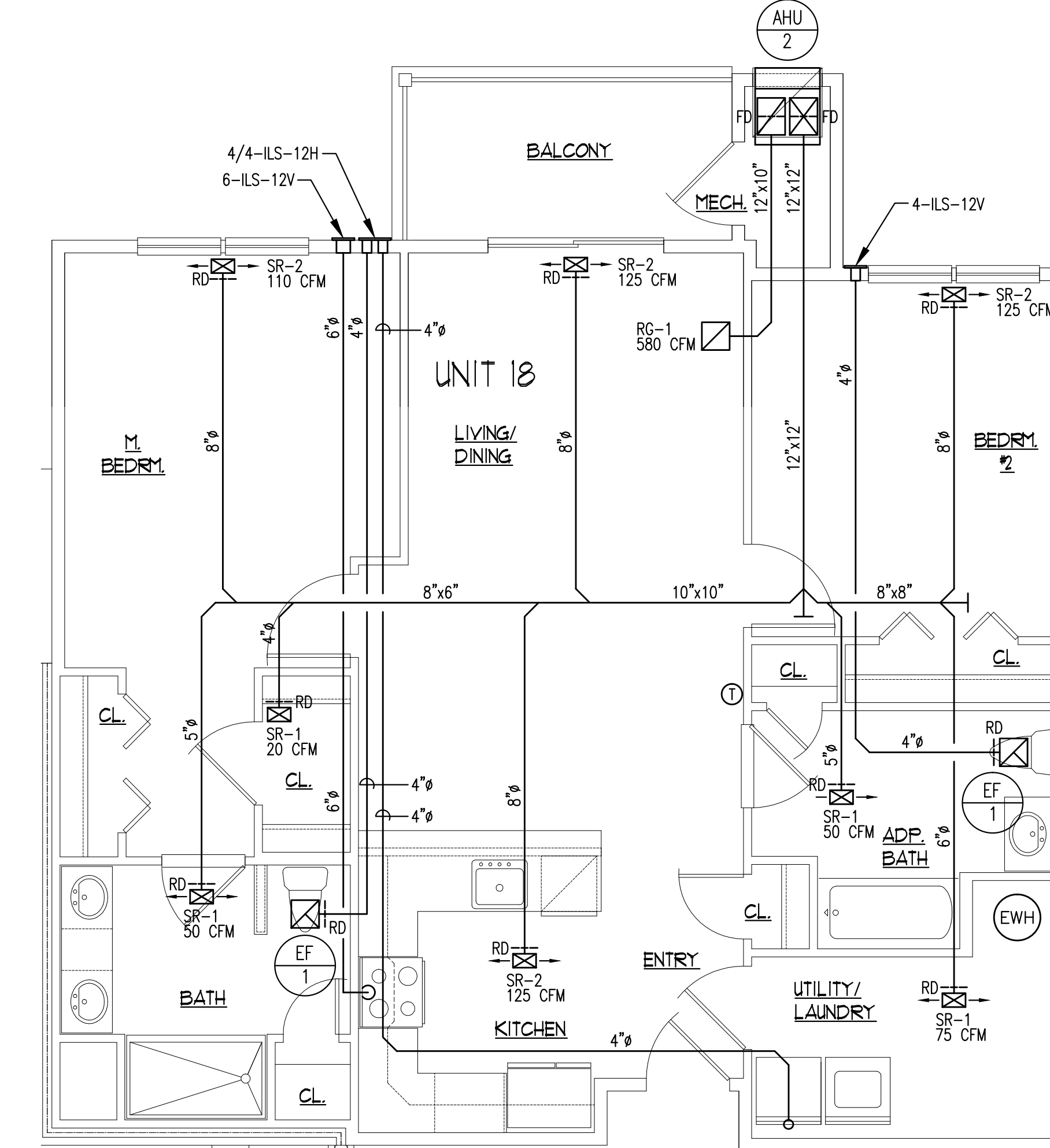


UNIT TYPE 16 - (2) BEDROOM
 SCALE: 1/4" = 1'-0"

SEE THIRD FLOOR PLAN ON DWG. M4.00 FOR TYPICAL EXH. VENT LOCATIONS AT THIRD FLOOR CONDITION.



UNIT TYPE 17 - (2) BEDROOM
 SCALE: 1/4" = 1'-0"



UNIT TYPE 18 - (2) BEDROOM
 SCALE: 1/4" = 1'-0"

SEE THIRD FLOOR PLAN ON DWG. M4.00 FOR TYPICAL EXH. VENT LOCATIONS AT THIRD FLOOR CONDITION.

2 BEDROOM UNIT
OUTSIDE AIR CALCULATION
 OUTSIDE AIR CALCULATION BASED ON THE 2021 IMC TABLE 403.3.1.1:

PRIVATE SINGLE DWELLINGS # PEOPLE = 1 PERSON/BEDROOM + 1 = 2 BEDROOMS + 1 = 3 PEOPLE	
LIVING AREA: 15 CFM/PERSON X 3 PEOPLE =	45
KITCHEN: 25 CFM CONTINUOUS OR 100 CFM INTERMITTENT	100 CFM
TOILET ROOMS & BATHROOMS: 20 CFM CONTINUOUS OR 50 CFM INTERMITTENT	50 CFM
MINIMUM VENTILATION REQUIRED:	45 CFM
MINIMUM VENTILATION PROVIDED:	45 CFM

GENERAL NOTE:
 EXHAUST VENTS TO DISCHARGE 3'-0" MIN. FROM OPERABLE DOORS/WINDOWS AND MIN. 10'-0" FROM MECHANICAL AIR INTAKES.

1 BEDROOM UNIT
OUTSIDE AIR CALCULATION
 OUTSIDE AIR CALCULATION BASED ON THE 2021 IMC TABLE 403.3.1.1:

PRIVATE SINGLE DWELLINGS # PEOPLE = 1 PERSON/BEDROOM + 1 = 1 BEDROOMS + 1 = 2 PEOPLE	
LIVING AREA: 15 CFM/PERSON X 2 PEOPLE =	30
KITCHEN: 25 CFM CONTINUOUS OR 100 CFM INTERMITTENT	100 CFM
TOILET ROOMS & BATHROOMS: 20 CFM CONTINUOUS OR 50 CFM INTERMITTENT	50 CFM
MINIMUM VENTILATION REQUIRED:	30 CFM
MINIMUM VENTILATION PROVIDED:	30 CFM

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NO.	DATE	DESCRIPTION

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BUILDING 'C'
 BLOCK 2173, LOT 21.01
 HAMILTON TOWNSHIP, NEW JERSEY
 FOR:
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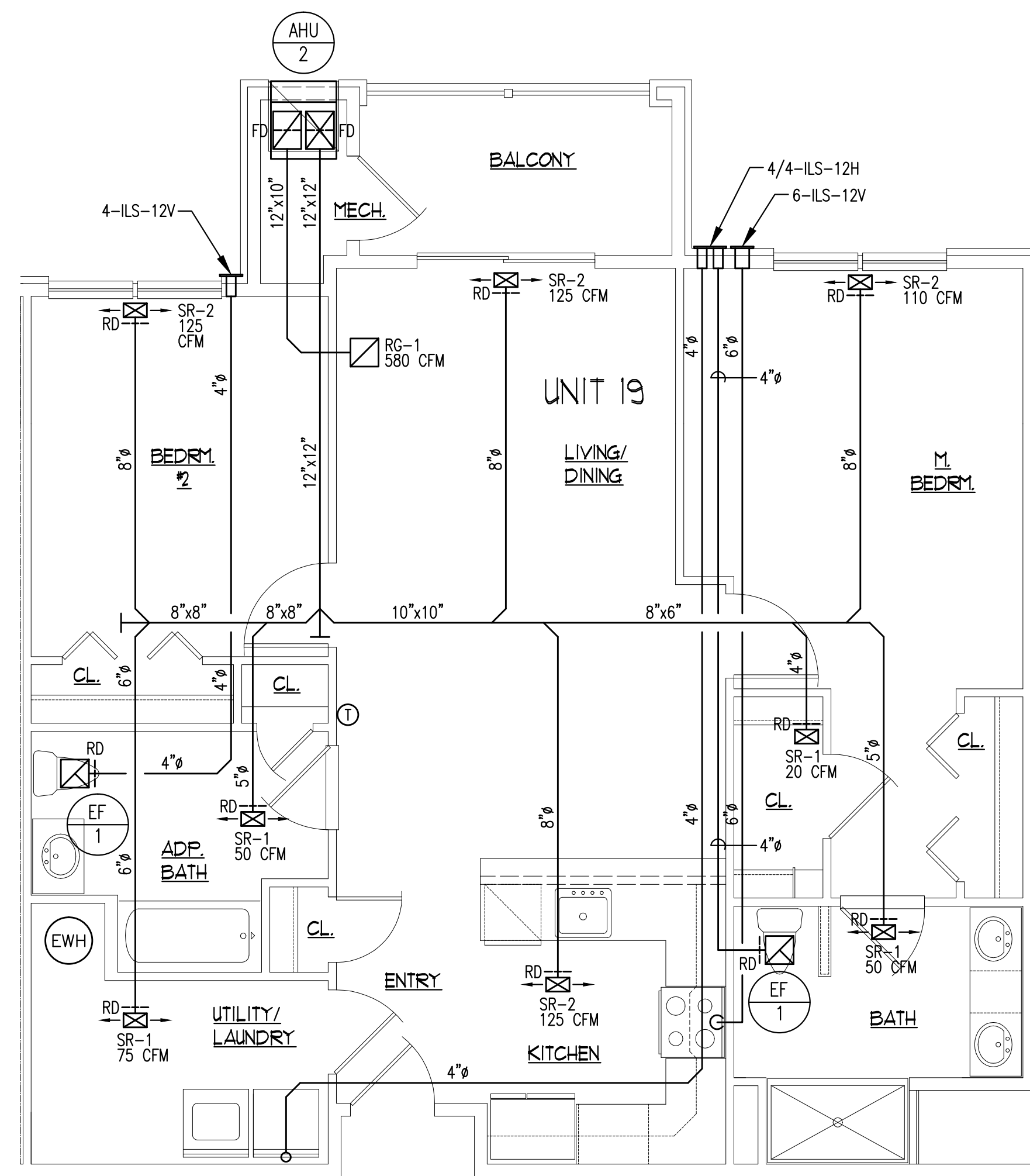
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	AL 12227
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	BA-01068-X
	6147
	VA 0401 012300
	MA 3375
	OH 141822
	4638

SHEET TITLE
 MECHANICAL
 UNIT PLANS

DATE: 01/23/24 SHEET NO.
 PROJ. NO. 20045 MB.00
 SCALE: AS NOTED

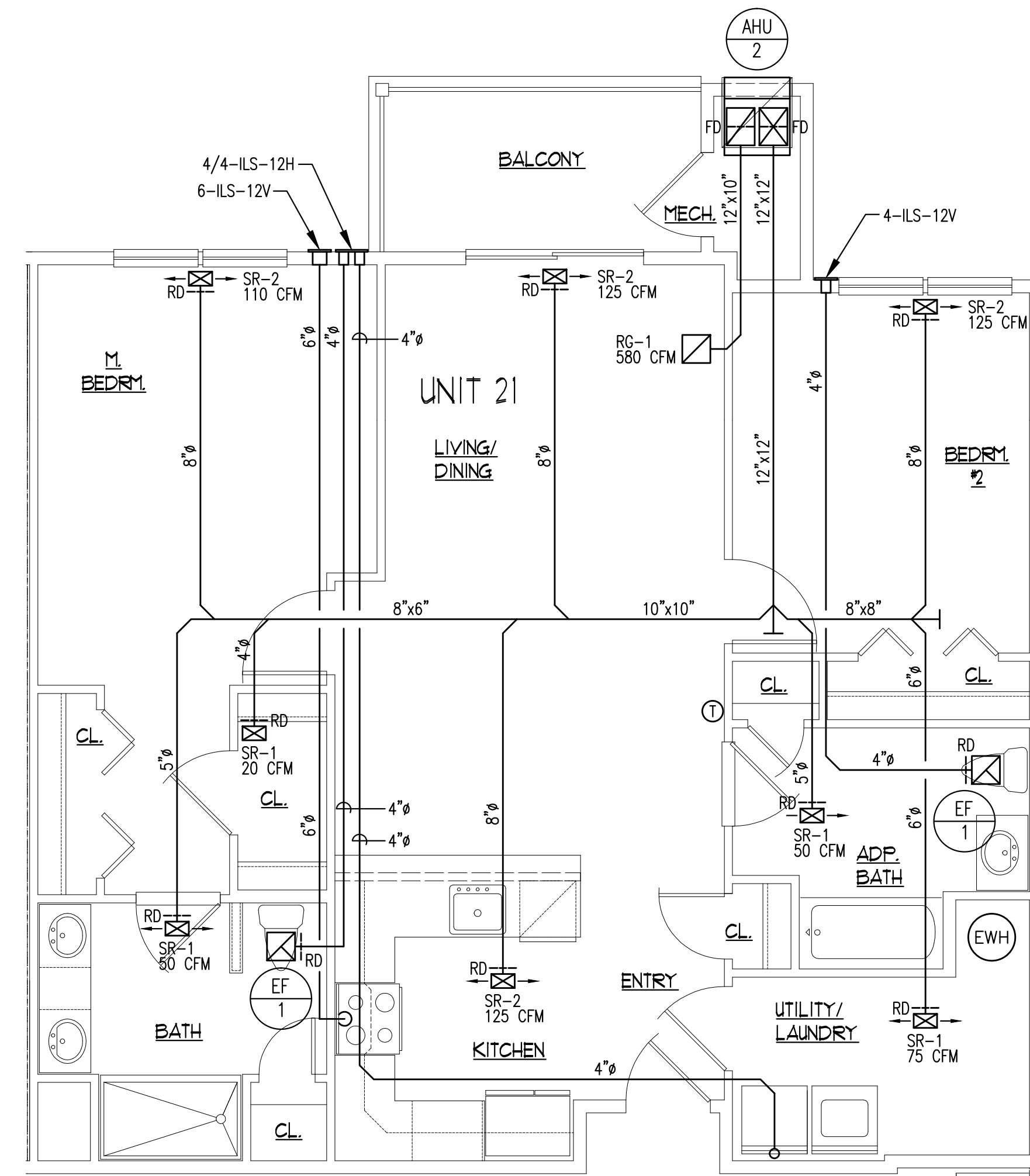
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UNIT TYPE 19 - (2) BEDROOM

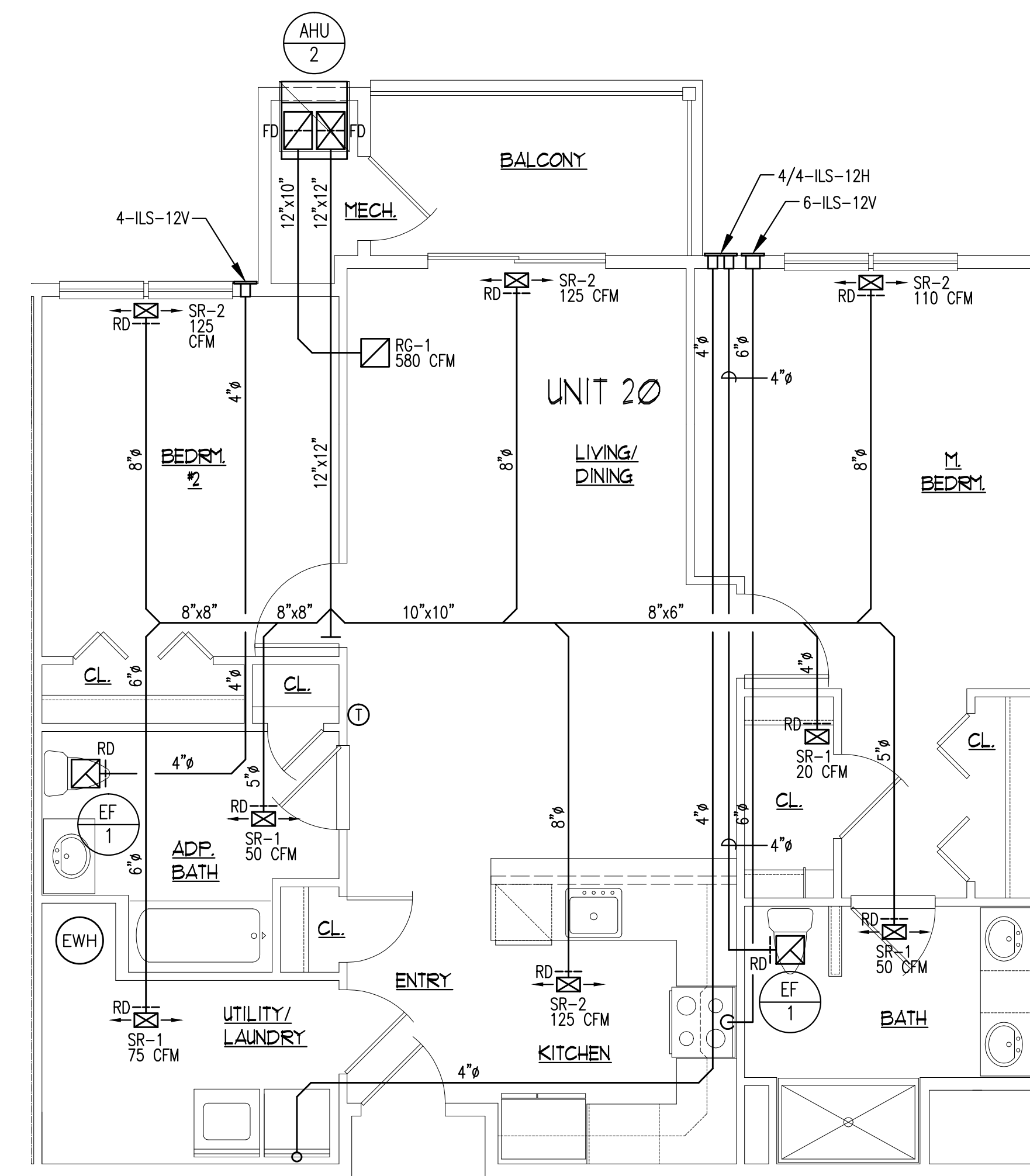
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UNIT TYPE 21 - (2) BEDROOM

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

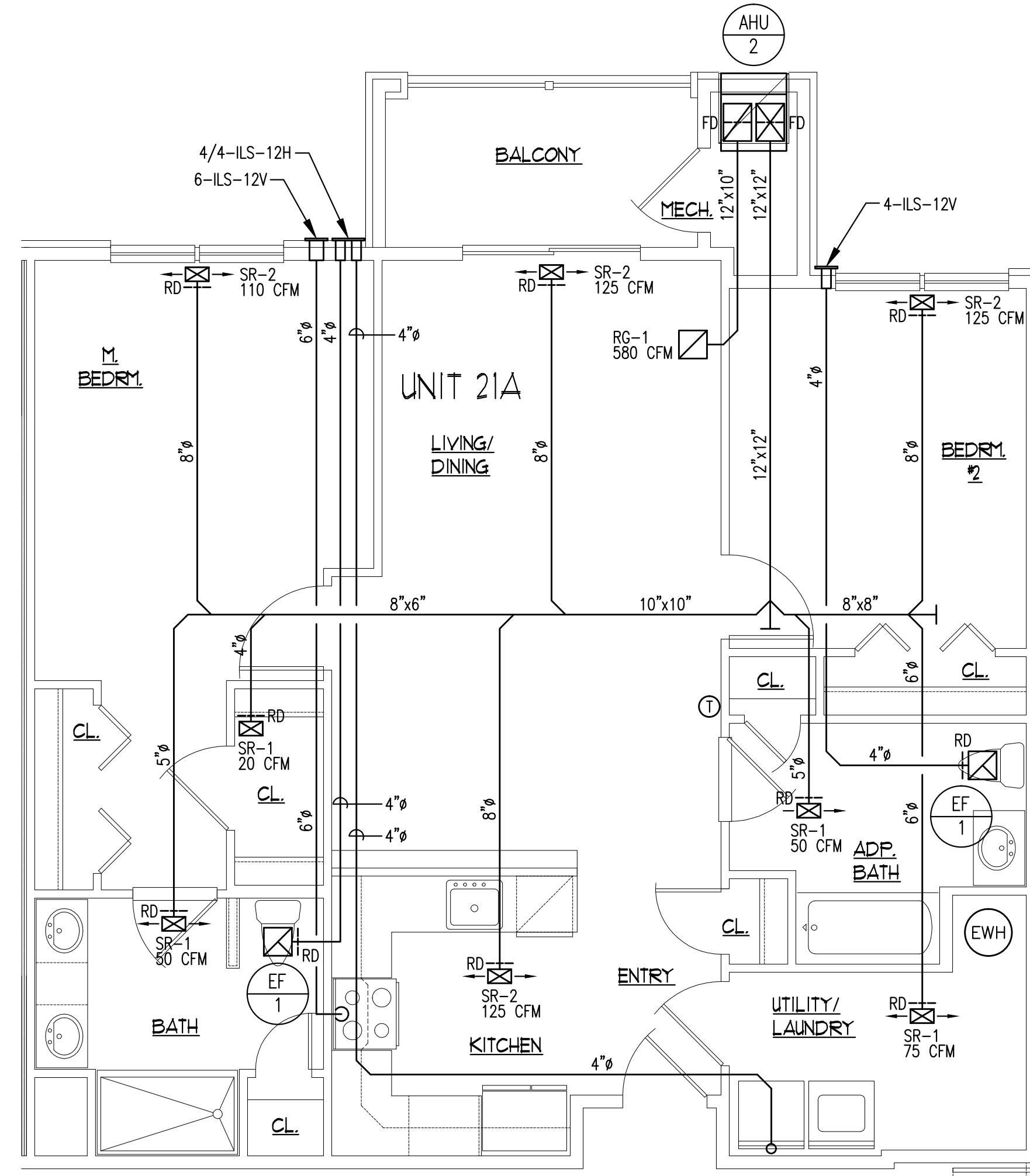
SEE THIRD FLOOR PLAN ON DWG. M4.00 FOR TYPICAL EXH. VENT LOCATIONS AT THIRD FLOOR CONDITION.



UNIT TYPE 20 - (2) BEDROOM

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

SEE THIRD FLOOR PLAN ON DWG. M4.00 FOR TYPICAL EXH. VENT LOCATIONS AT THIRD FLOOR CONDITION.



UNIT TYPE 21A - (2) BEDROOM

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

GENERAL NOTE:
EXHAUST VENTS TO DISCHARGE 3'-0" MIN. FROM OPERABLE DOORS/WINDOWS AND MIN. 10'-0" FROM MECHANICAL AIR INTAKES.

**2 BEDROOM UNIT
OUTSIDE AIR CALCULATION**

OUTSIDE AIR CALCULATION BASED ON THE 2021 IMC TABLE 403.3.1.1:

PRIVATE SINGLE DWELLINGS # PEOPLE = 1 PERSON/BEDROOM + 1 = 2 BEDROOMS + 1 = 3 PEOPLE	
LIVING AREA 15 CFM/PERSON X 3 PEOPLE =	45
	VENTILATION: 45 CFM
KITCHEN: 25 CFM CONTINUOUS OR 100 CFM INTERMITTENT	EXHAUST: 100 CFM
TOILET ROOMS & BATHROOMS: 20 CFM CONTINUOUS OR 50 CFM INTERMITTENT	EXHAUST: 50 CFM
MINIMUM VENTILATION REQUIRED:	45 CFM
MINIMUM VENTILATION PROVIDED:	45 CFM

NO.	DATE	REVISIONS

TWIN PONDS
BUILDING 'C'
BLOCK 2173, LOT 21.01
HAMILTON TOWNSHIP, NEW JERSEY
For:
THE KAMSON CORPORATION

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NY	050696-1
NY	8964
PA	BA-012068-X
VA	6347
MA	0401 012300
OH	31878
RI	1418212
	4058

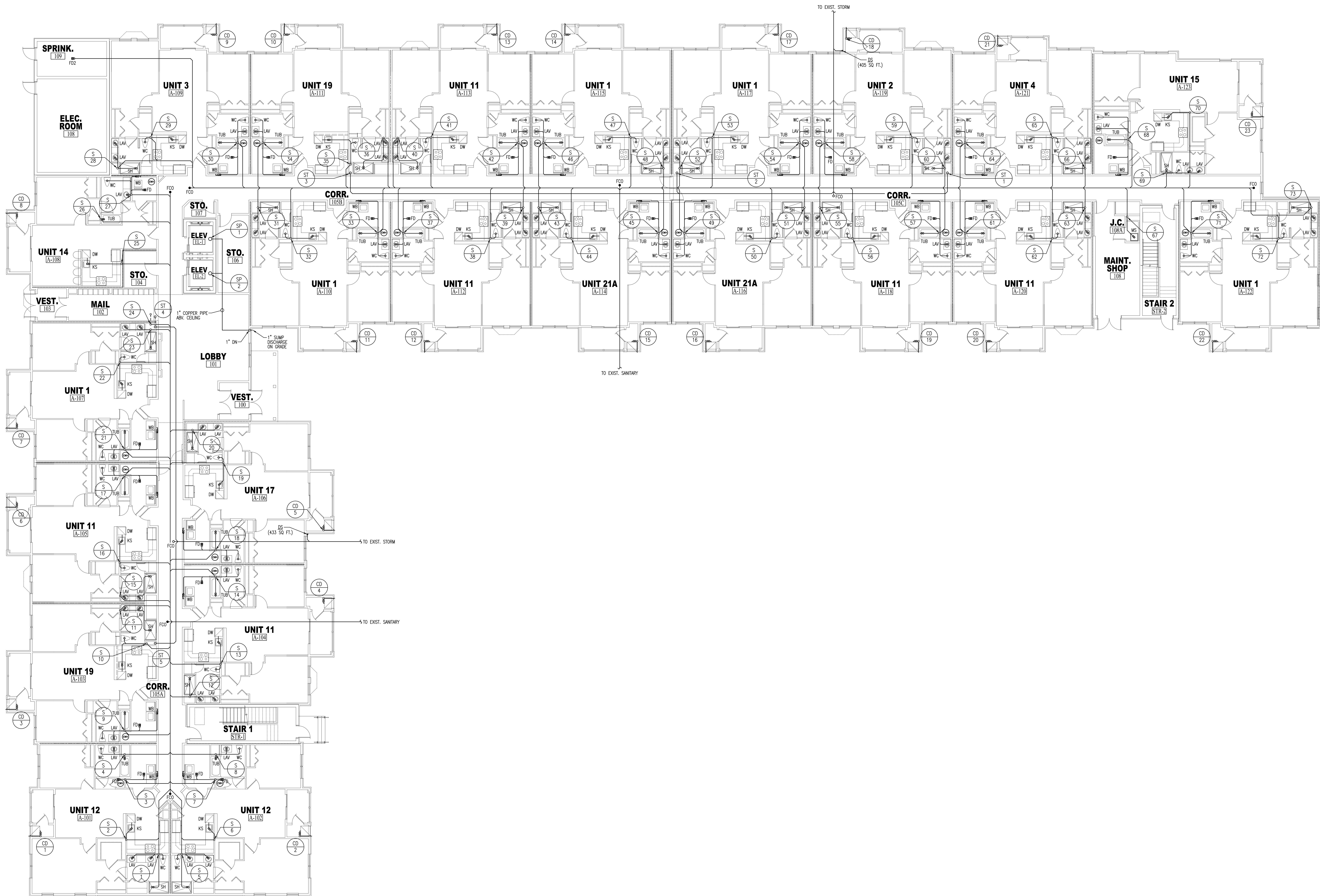
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SCALE: AS NOTED	



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

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**TWIN PONDS
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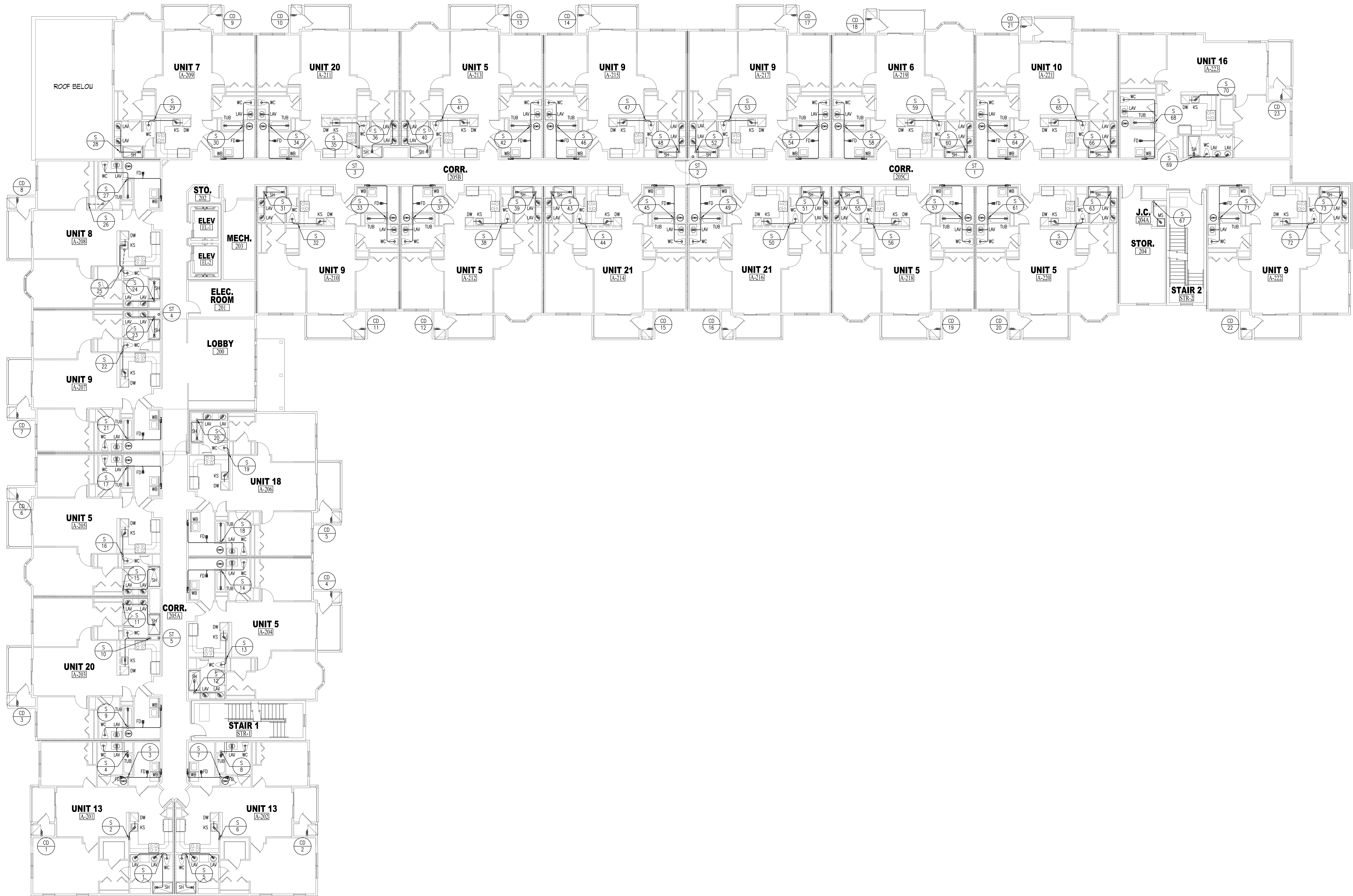
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J.F.V.	07/23/24	202045	P2.00
DRAWN			
CHECKED			
APPROVED			
DATE			

05/20/2024

NJ PE LICENSE #: 18513



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

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BY	6347
BY	0401 012300
BY	31975
BY	1418212
BY	4638

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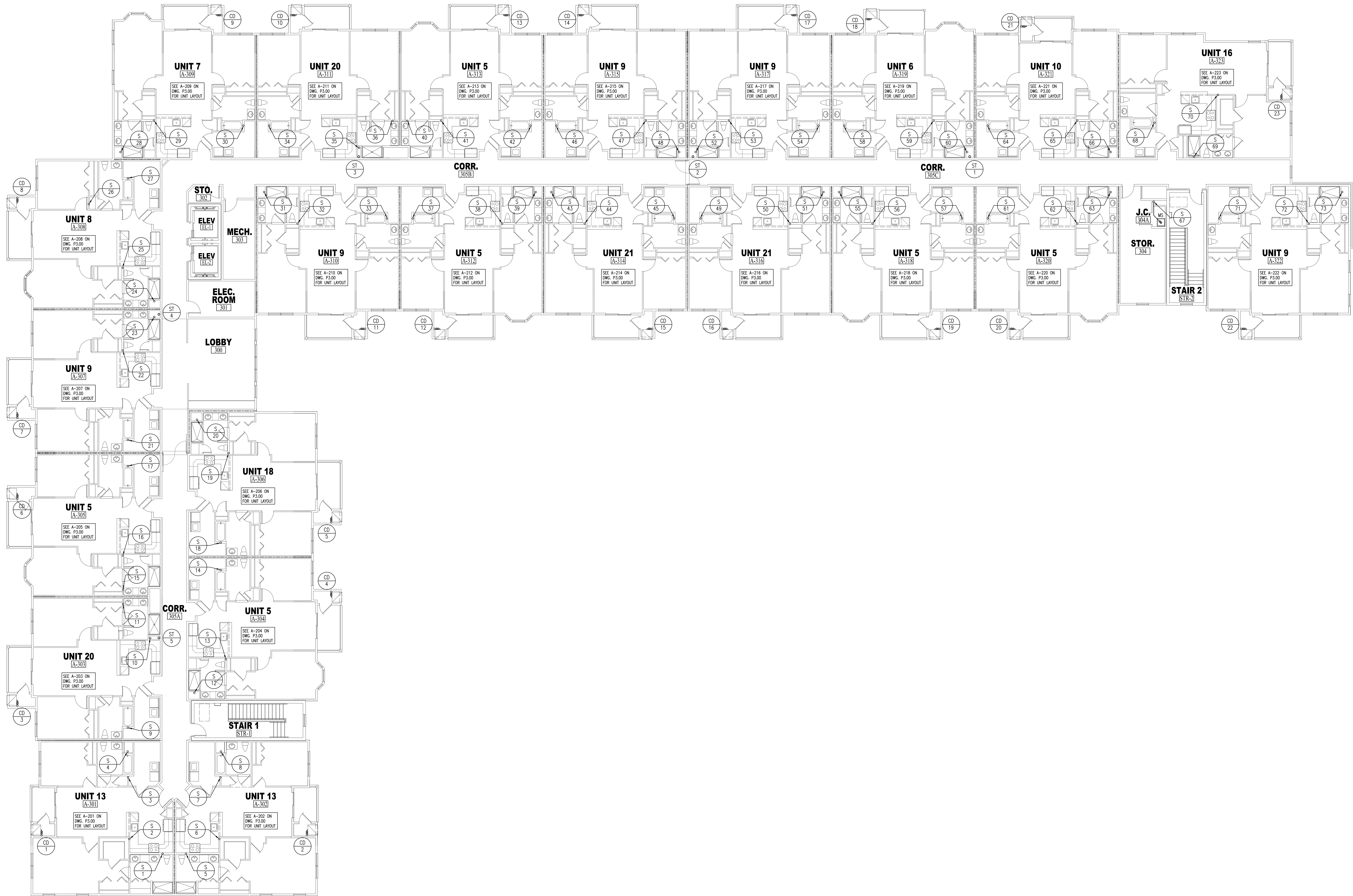
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**PLUMBING
SECOND FLOOR PLAN
SANITARY**

DATE: 01/23/24 SHEET NO.
PROJ. NO. 20045 **P3.00**
SCALE: AS NOTED

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

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**TWIN PONDS
BUILDING 'C'
BLOCK 2173, LOT 21.01
HAMILTON TOWNSHIP, NEW JERSEY**
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NY	4638

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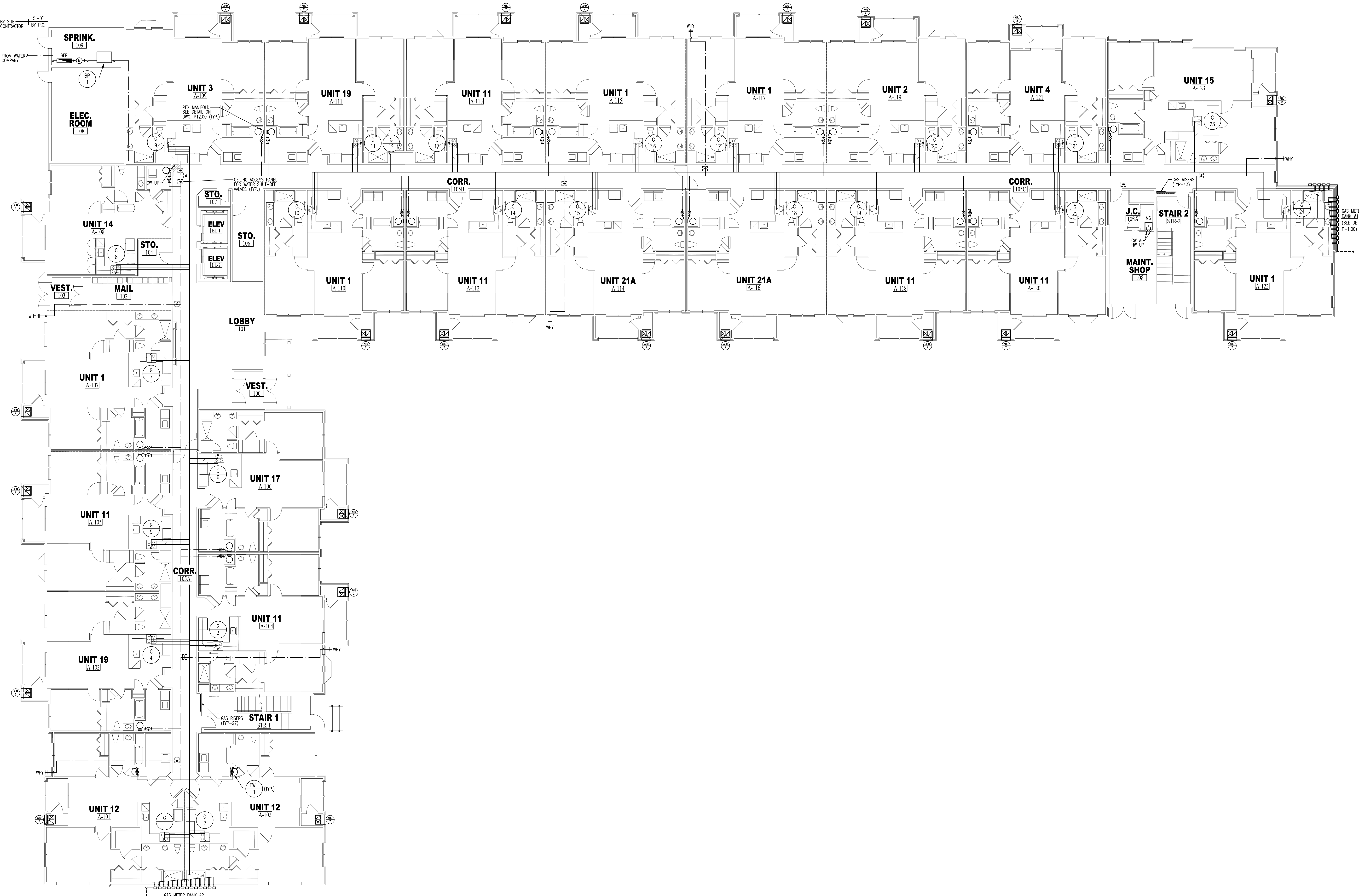
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**PLUMBING
THIRD FLOOR PLAN
SANITARY**

DATE: 07/23/24 SHEET NO.
PROJ. NO. 20045 **P4.00**
SCALE: AS NOTED

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NY PE LICENSE # 18513



FIRST FLOOR PLAN - WATER & GAS

SCALE: 1/8" = 1'-0"

NOTE:
1.) REFER TO RISER DIAGRAMS FOR PIPE SIZES.

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 BLOCK 2173, LOT 21.01
 HAMILTON TOWNSHIP, NEW JERSEY**
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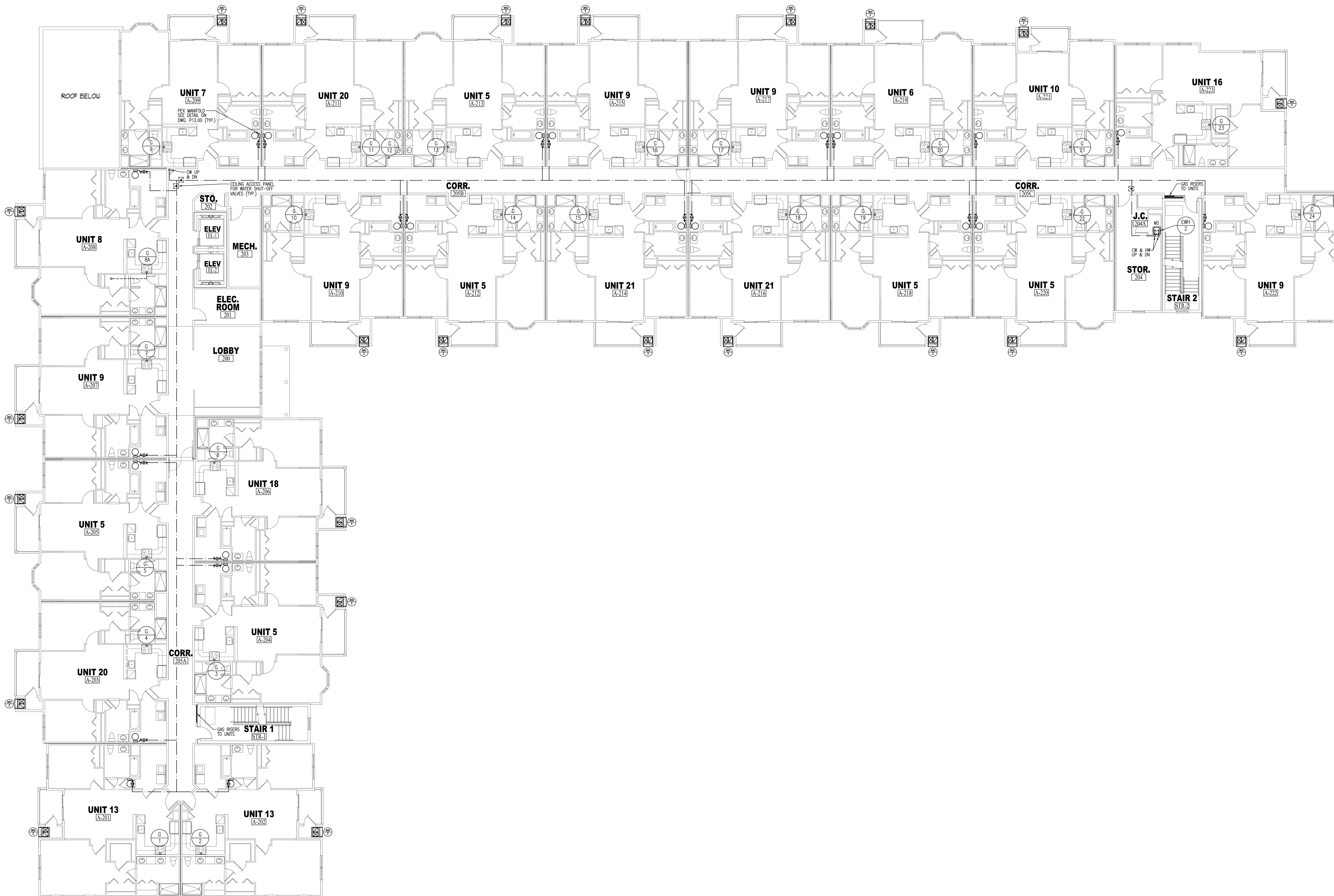
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PLUMBING FIRST FLOOR PLAN WATER & GAS	
DATE: 01/23/24	SHEET NO.:
PROJ. NO.: 20045	P5.00
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05/20/2024

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SECOND FLOOR PLAN - WATER & GAS

SCALE: 1/8" = 1'-0"

NOTE:

1.) REFER TO RISER DIAGRAMS FOR PIPE SIZES.

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NO.	DATE	REVISIONS

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CHECKED JES	PROJECT: 20045
APPROVED JES	SCALE: AS NOTED

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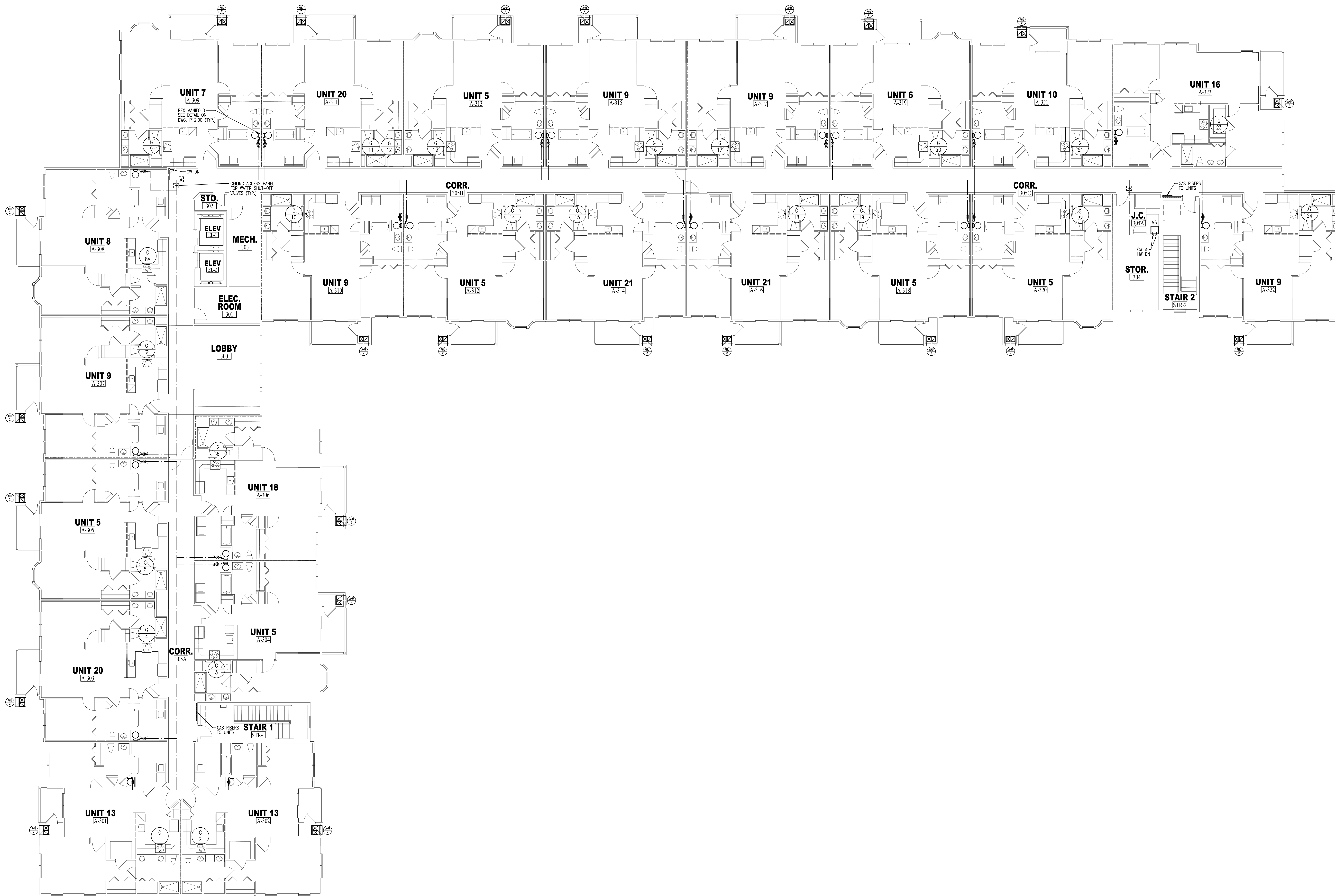
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SHEET TITLE
 PLUMBING
 SECOND FLOOR PLAN
 WATER & GAS

DATE: 01/23/24 **SHEET NO.:**
PROJ. NO.: 20045 **P6.00**
SCALE: AS NOTED



THIRD FLOOR PLAN - WATER & GAS

SCALE: 1/8" = 1'-0"

NOTE:

- 1.) REFER TO RISER DIAGRAMS FOR PIPE SIZES.

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**TWIN PONDS
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CHECKED	J.E.S.	PROJECT	202045
APPROVED	J.E.S.	SCALE	AS NOTED

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SHEET TITLE
 PLUMBING
 THIRD FLOOR PLAN
 WATER & GAS

DATE: 07/23/24 **SHEET NO.:** P7.00

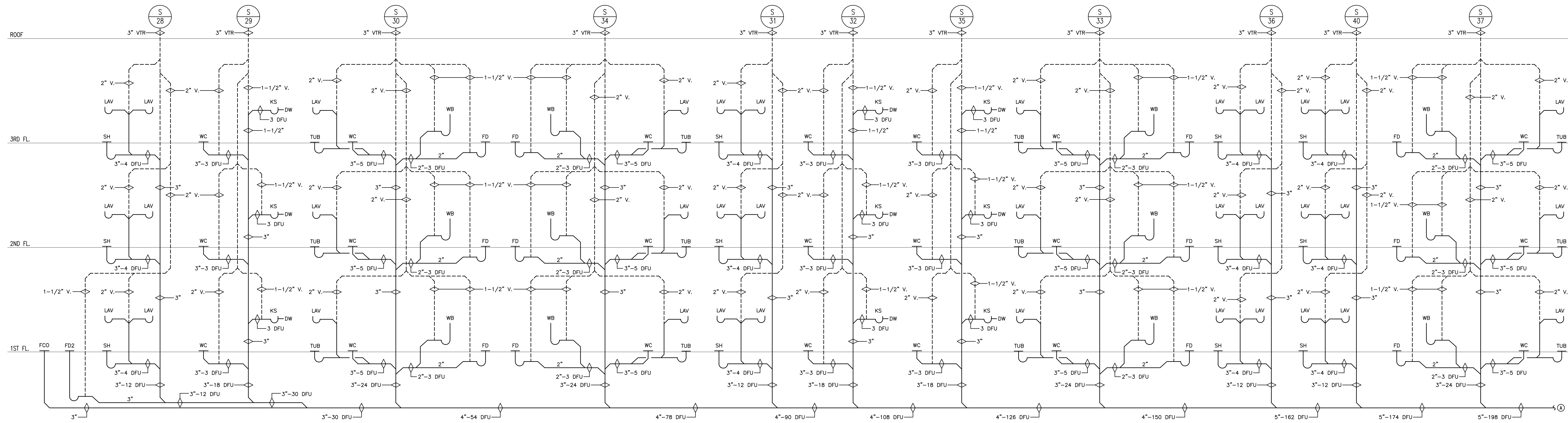
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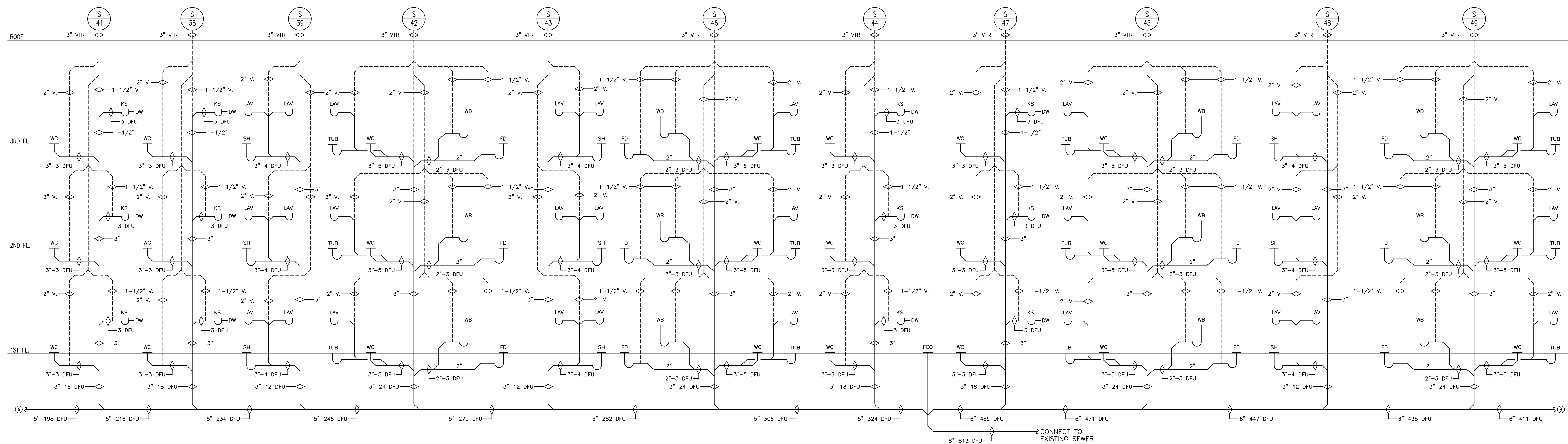
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 SHEET No. 7 OF 12 DRAWER_X



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NY	05666-1
NY	8864
NY	BA-012068-X
NY	6347
MA	0401 012300
MA	31975
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RI	4638

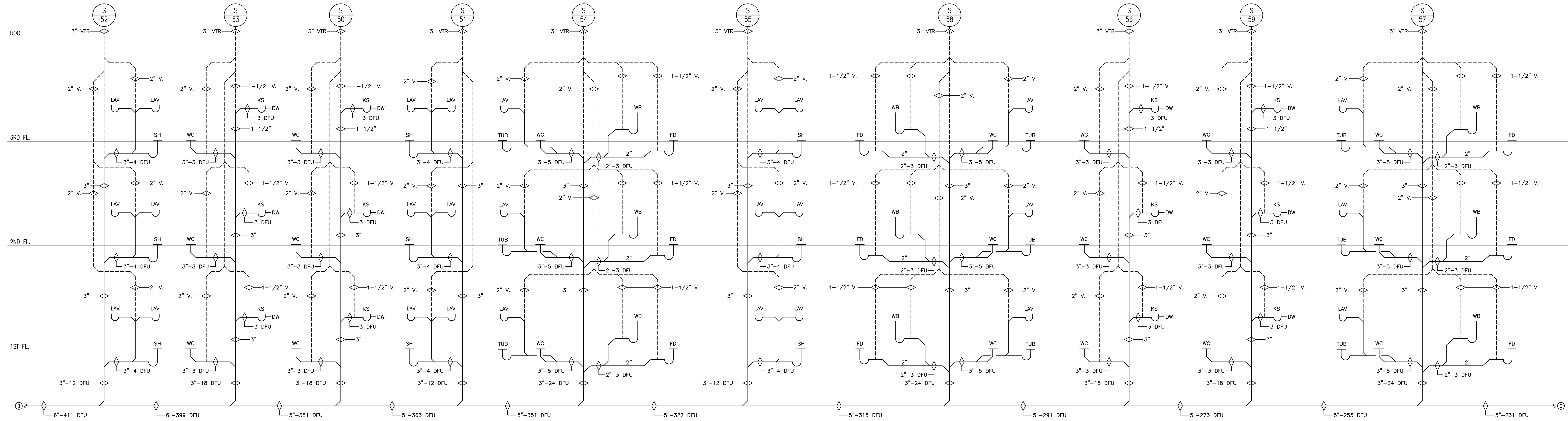
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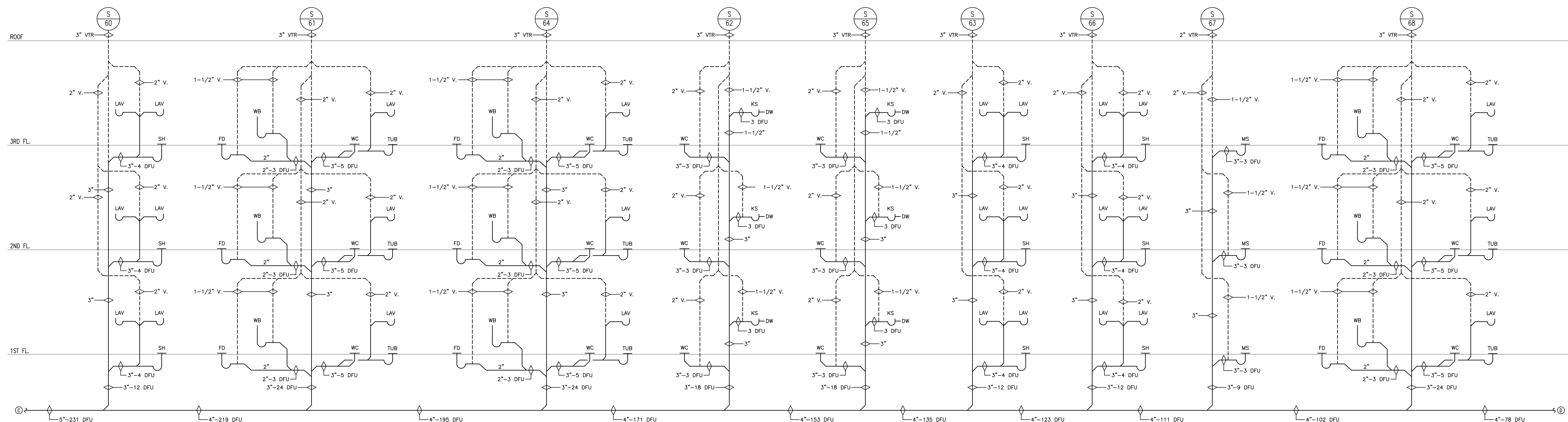
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		VA	0401 012300
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		OH	1418212
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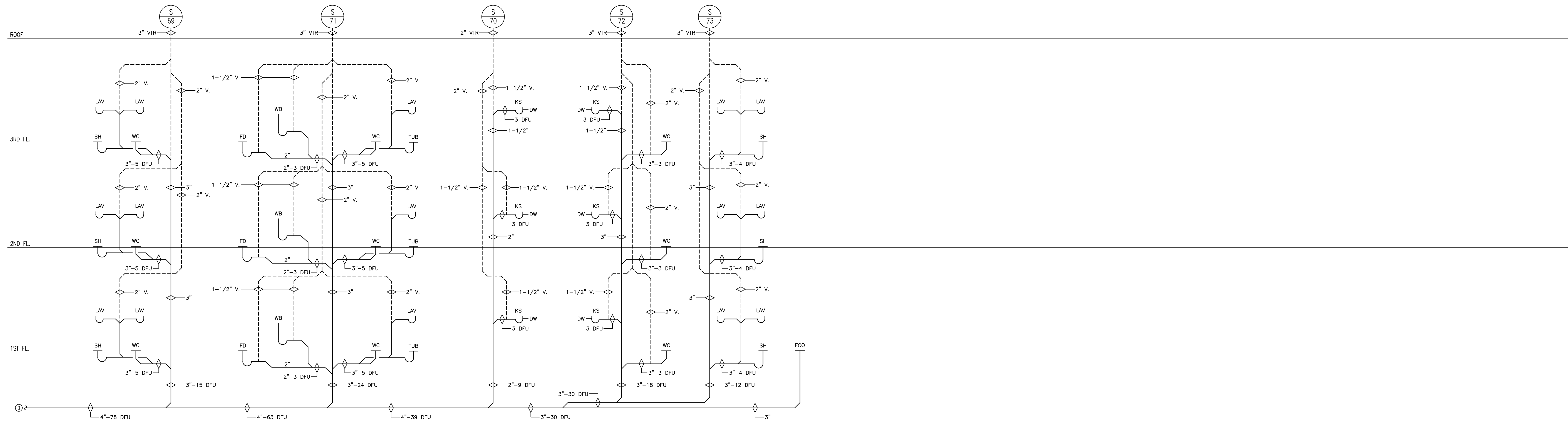
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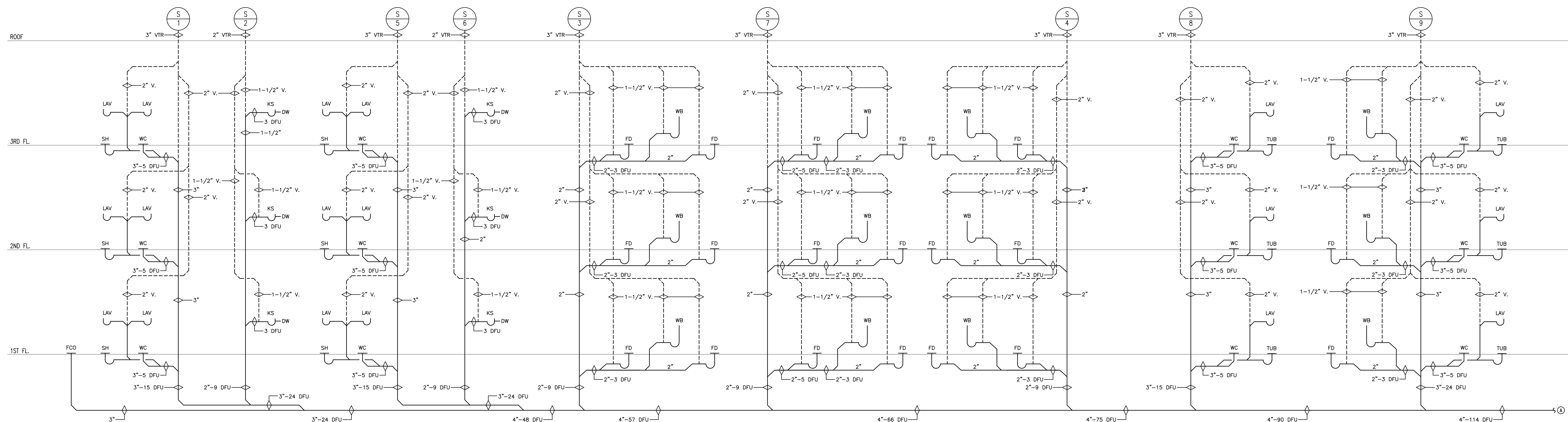
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DATE	07/23/24
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SCALE	AS NOTED
SHEET NO.	P10.00

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PARTIAL SANITARY RISER DIAGRAM
SCALE: N.T.S.

NO.	DATE	REVISIONS

TWIN PONDS
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BLOCK 2173, LOT 21.01
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		NJ	AJ 12527
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		PA	BA-012088-X
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		OH	1418212
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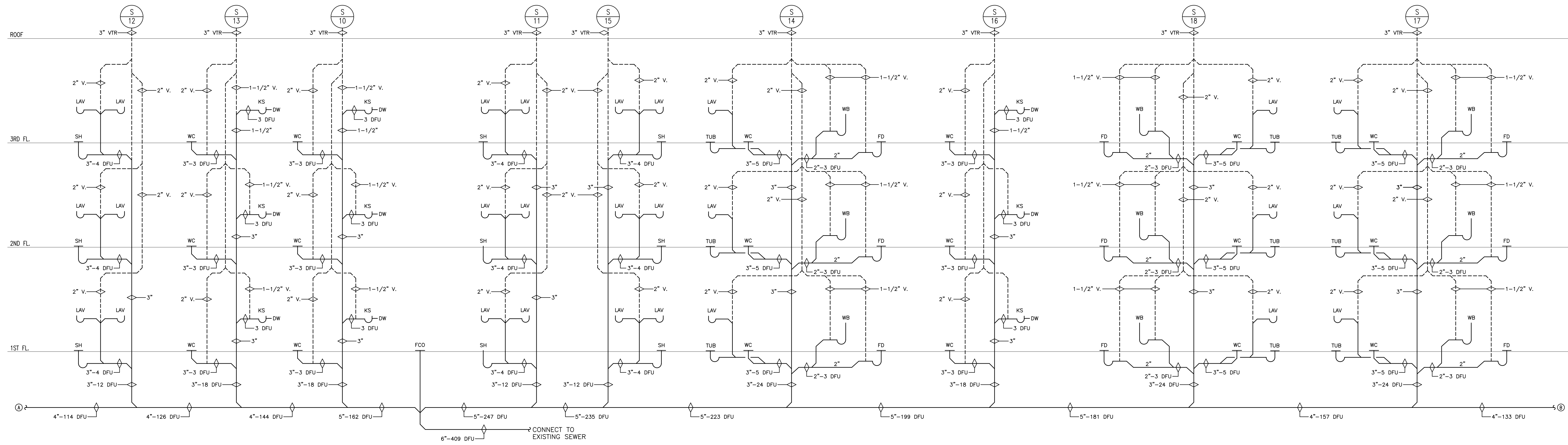
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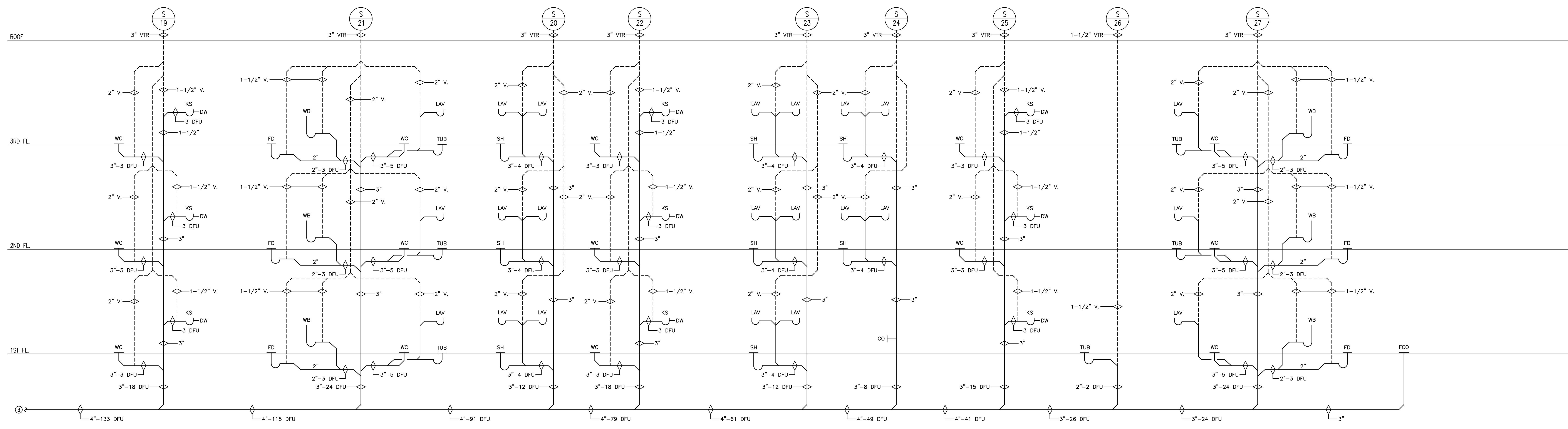
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PROJ. NO.	20045	P11.00
SCALE	AS NOTED	



PARTIAL SANITARY RISER DIAGRAM
SCALE: N.T.S.



PARTIAL SANITARY RISER DIAGRAM
SCALE: N.T.S.

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NO.	DATE	REVISIONS

TWIN PONDS
BUILDING 'C'
BLOCK 2173, LOT 21.01
HAMILTON TOWNSHIP, NEW JERSEY
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	NC 8864
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	SC 6347
	VA VA 0401 012300
	WA WA 31975
	WI WI 1418212
	WV WV 4638

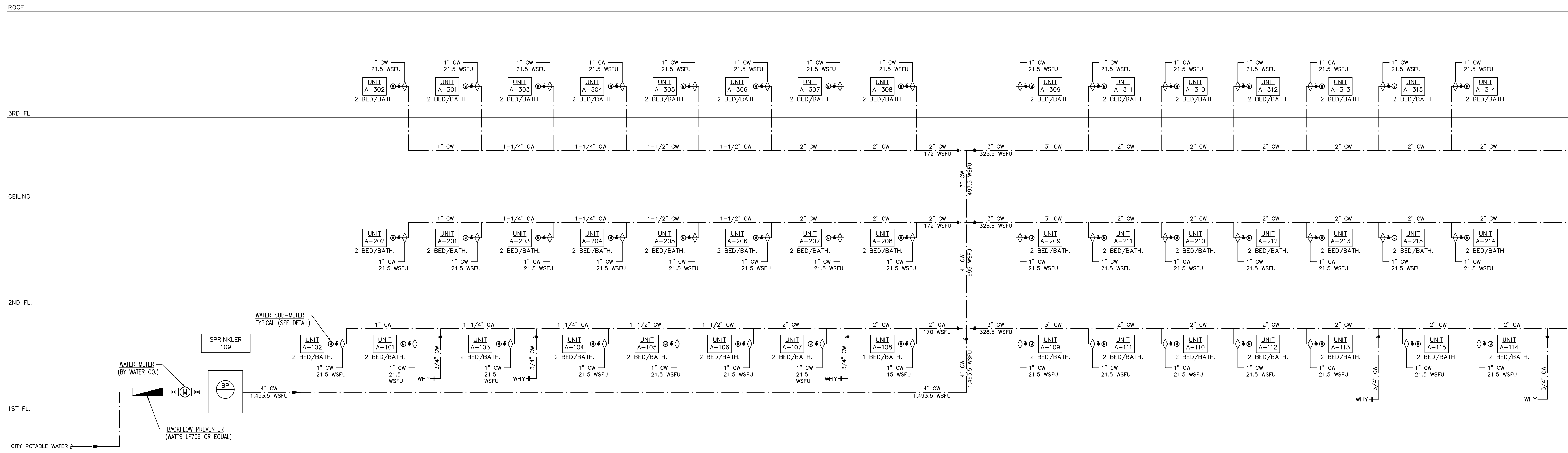
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DESIGNED	J.F.V.	DATE	07/23/24
DRAWN	J.F.V.	PROJ. NO.	20045
CHECKED	J.E.S.	SCALE	AS NOTED
APPROVED	J.E.S.	SHEET TITLE	PLUMBING PARTIAL SANITARY RISERS
		SHEET NO.	P12.00

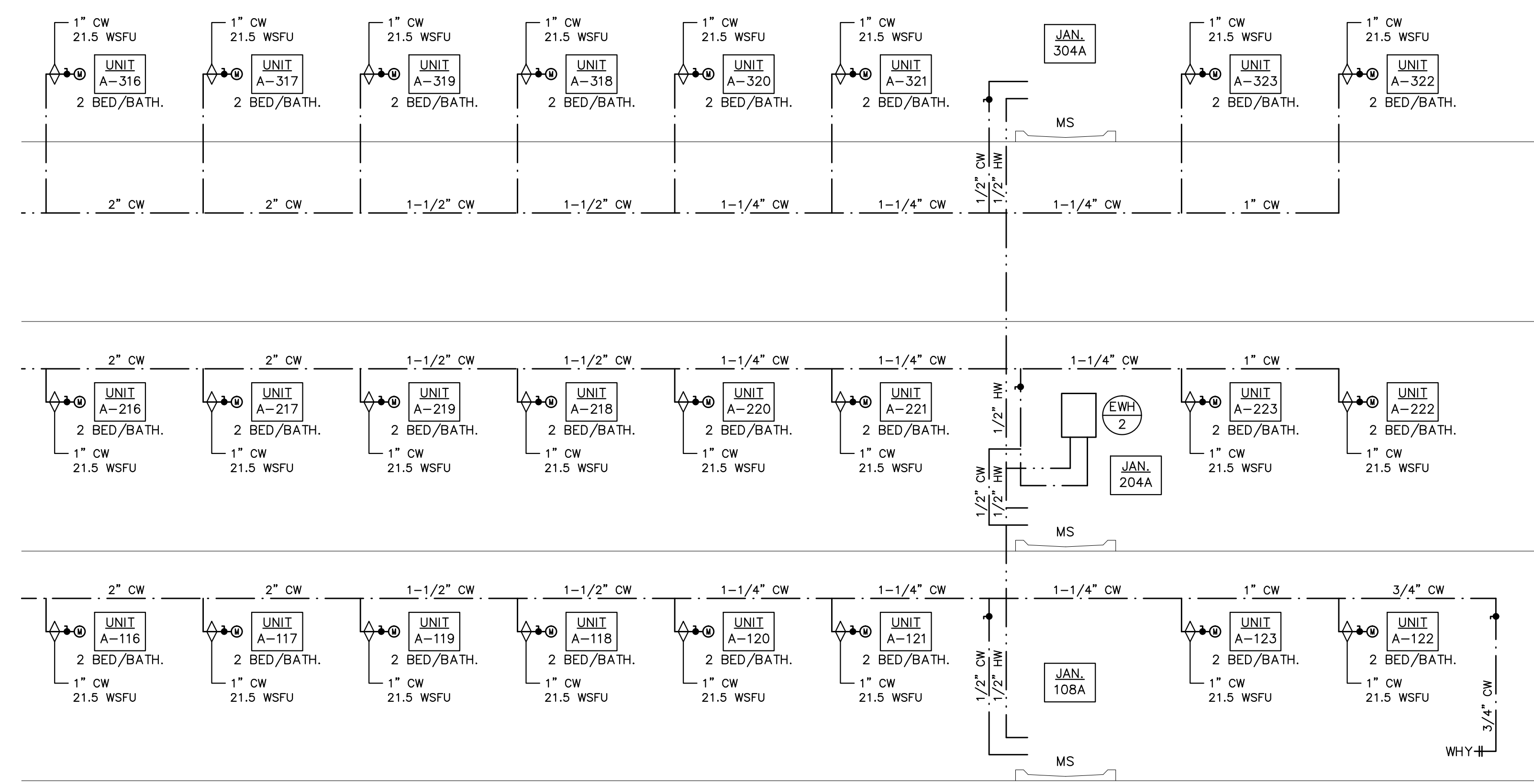
05/20/2024

NJ PE LICENSE # 18513



PARTIAL DOMESTIC WATER RISER DIAGRAM

SCALE: N.T.S.

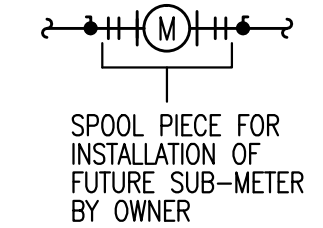


PARTIAL DOMESTIC WATER RISER DIAGRAM

SCALE: N.T.S.

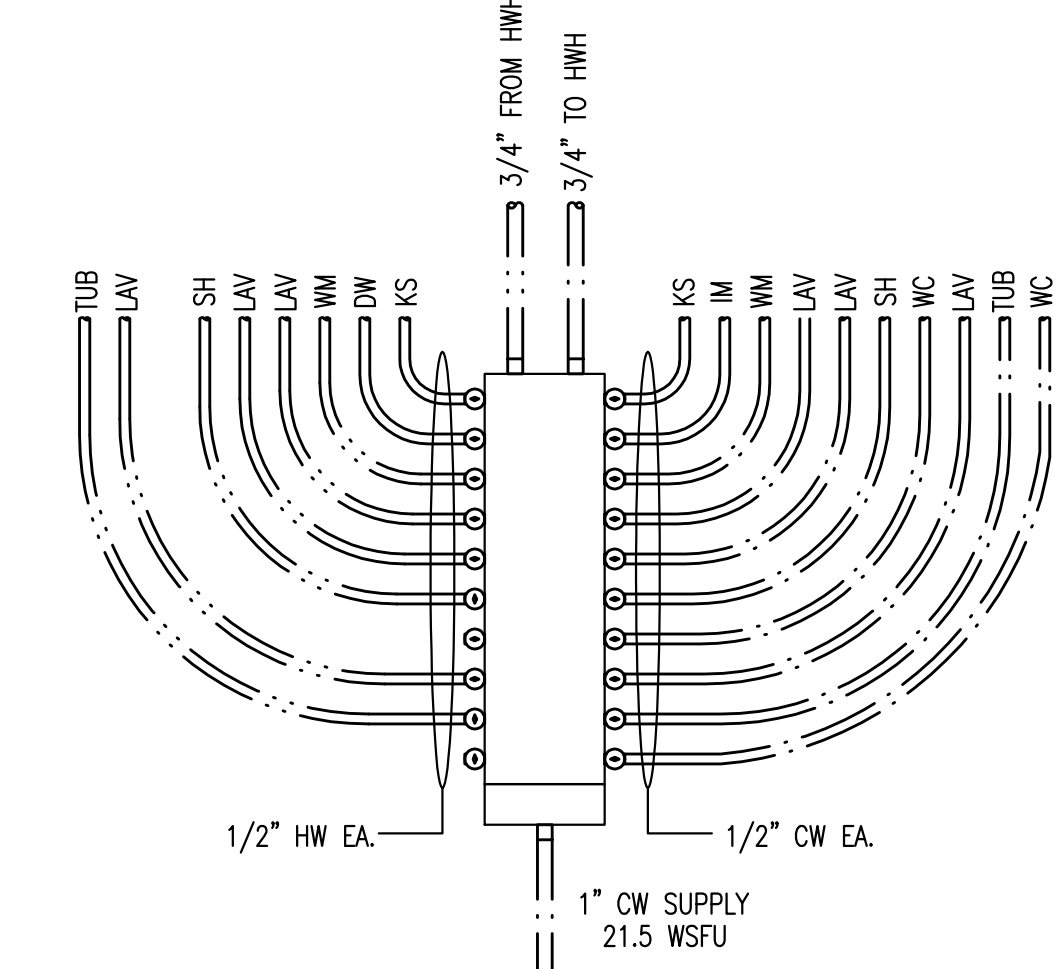
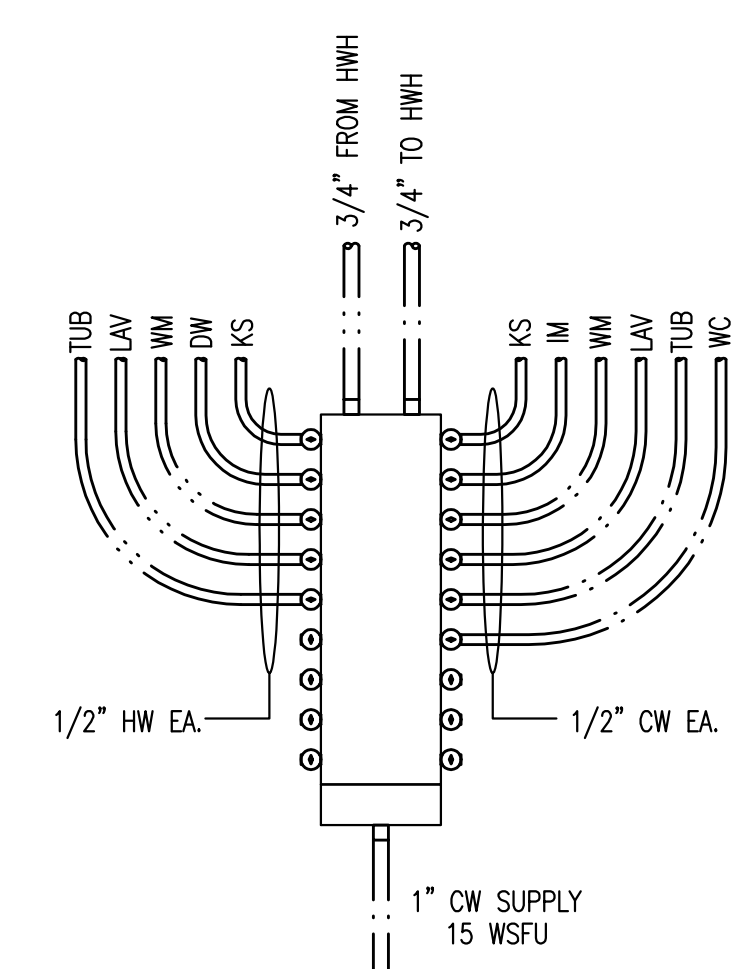
NOTES:

- 1. APARTMENT UNIT WATER PIPE SIZING BASED ON 2021 NSPC, TABLE B.7.3.H - PEX TUBING WITH WATTS WATER PEX MANIFOLD SYSTEM.
- 2. ALL OTHER WATER PIPE SIZING BASED ON 2021 NSPC, TABLE B.7.3.E - SCHEDULE 40 PVC.
- 3. SEE PLANS ON DWGS. P5.00 THRU P7.00 FOR LOCATION OF SHUT-OFF VALVES.



WATER SUB-METER DETAIL - APARTMENTS

SCALE: N.T.S.



PEX WATER DISTRIBUTION BLOCK DETAILS

SCALE: N.T.S.

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TWIN PONDS BUILDING 'C'
 BLOCK 2173, LOT 21.01
 HAMILTON TOWNSHIP, NEW JERSEY
 For: **THE KAMSON CORPORATION**

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DESIGNED	J.F.V.	SEAL	WILLIAM A. FEINBERG
DRAWN	J.F.V.	DATE	01/23/24
CHECKED	J.E.S.	PROJECT	20045
APPROVED	J.E.S.	SCALE	AS NOTED

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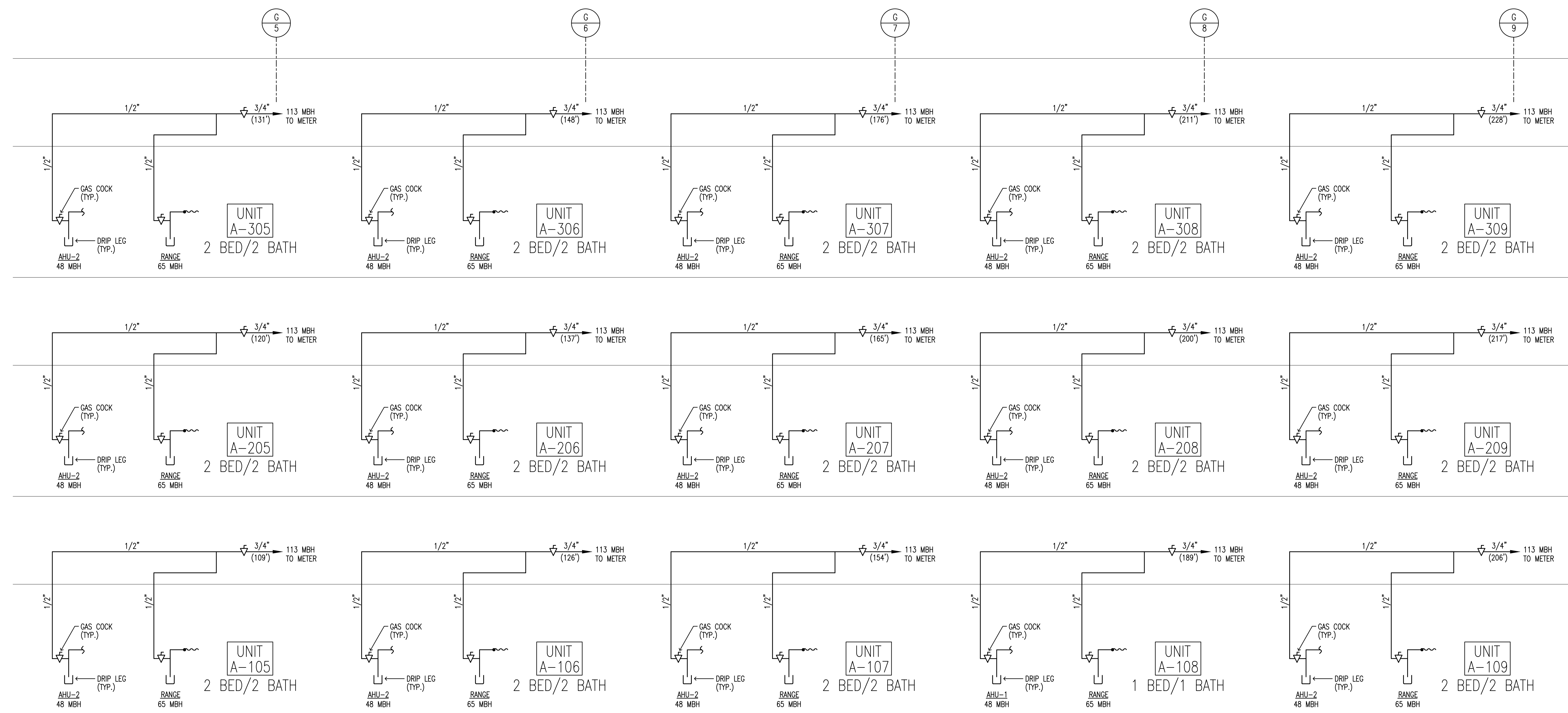
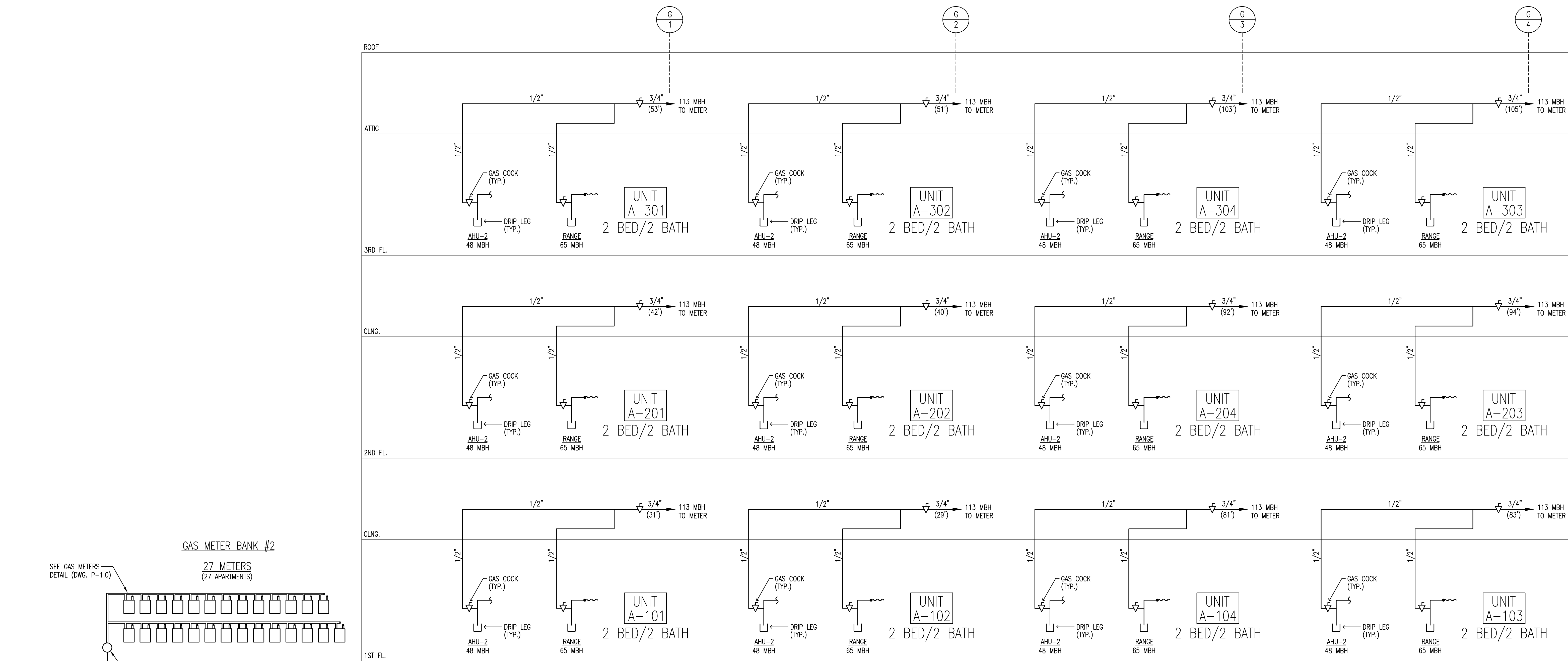
NJ PE LICENSE # 18513

PLUMBING DOMESTIC WATER RISER

DATE: 01/23/24 SHEET NO. P13.00

PROJ. NO. 20045 SCALE: AS NOTED

22018-P13.dwg 05/20/24 08:59 SHEET No. 13 OF 17 DRAWER_X



PARTIAL NATURAL GAS RISER
SCALE: N.T.S.

- NOTES:**
- 1.) PROVIDE SHUT-OFF VALVE IN EACH APARTMENT. PROVIDE VENTED PRESSURE REGULATORS IN EACH APARTMENT, IF REQUIRED.
 - 2.) EMERGENCY GENERATOR REQUIRED GAS PRESSURE IS 14" W.C. SIZING OF GENERATOR BASED ON I.F.C.C. 2021 TABLE 402.4(4).

GAS PIPING SIZING NOTE:
1. SIZING BASED ON I.F.C.C. 2021 TABLE 402.4(3) LONGEST RUN 300'-0".

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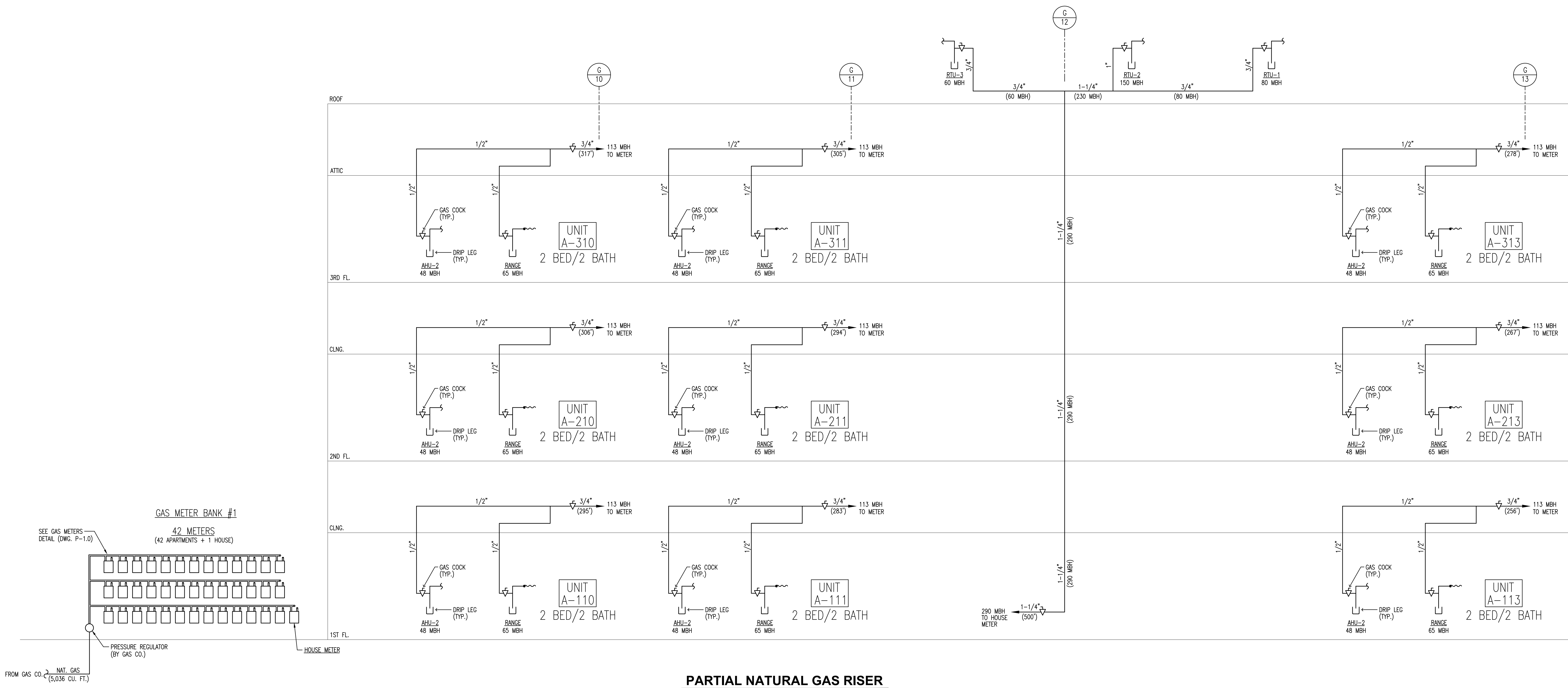
JOHN E. SCHADE ASSOCIATES, INC.

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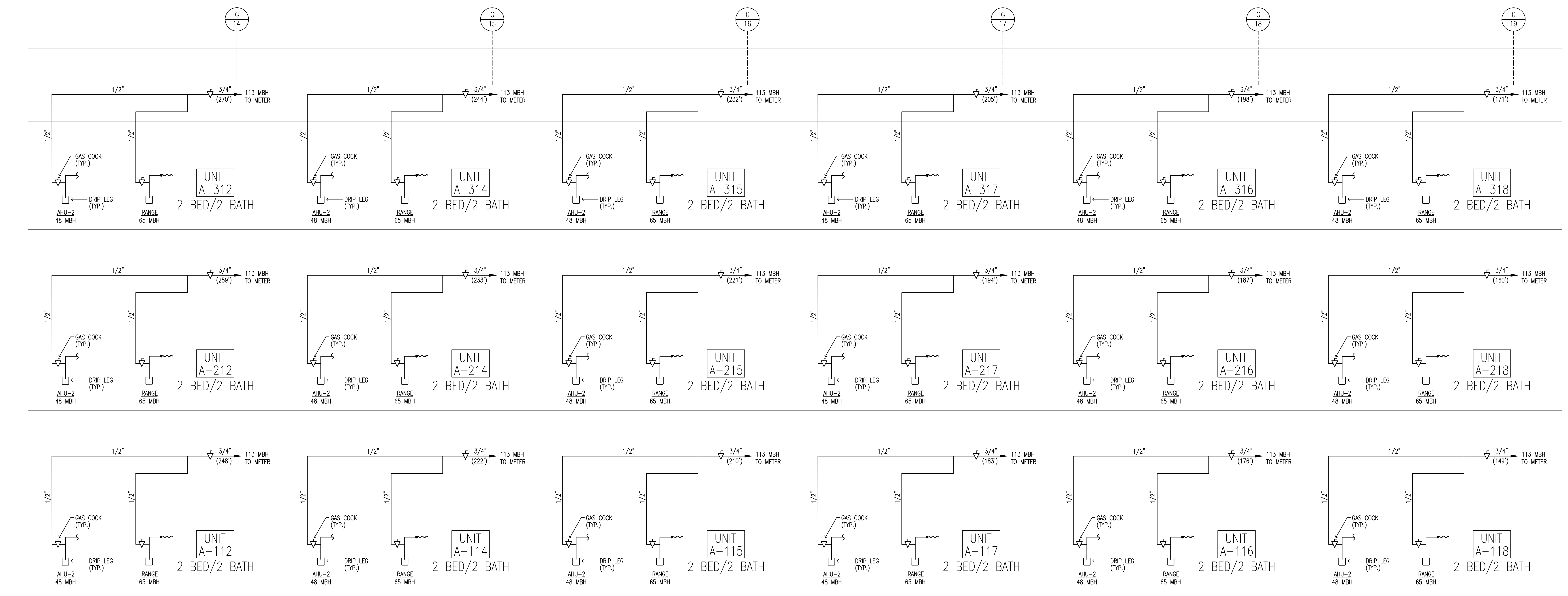
DESIGNED	J.F.V.	SEAL	WILLIAM A. FEINBERG
DRAWN	J.F.V.	DATE	07/23/24
CHECKED	J.E.S.	PROJ. NO.	20045
APPROVED	J.E.S.	SCALE	AS NOTED
SHEET TITLE		PLUMBING PARTIAL NATURAL GAS RISER	
SHEET NO.		P14.00	

05/20/2024

NU PB LICENSE #: 18513



PARTIAL NATURAL GAS RISER
 SCALE: N.T.S.



PARTIAL NATURAL GAS RISER
 SCALE: N.T.S.

- NOTES:**
- 1.) PROVIDE SHUT-OFF VALVE IN EACH APARTMENT. PROVIDE VENTED PRESSURE REGULATORS IN EACH APARTMENT, IF REQUIRED.
 - 2.) EMERGENCY GENERATOR REQUIRED GAS PRESSURE IS 14" W.C. SIZING OF GENERATOR BASED ON I.F.G.C. 2021 TABLE 402.4(4).

GAS PIPING SIZING NOTE:
 1. SIZING BASED ON I.F.G.C. 2021 TABLE 402.4(3)
 LONGEST RUN 320'-0".

TWIN PONDS
 BUILDING 'C'
 BLOCK 2173, LOT 21.01
 HAMILTON TOWNSHIP, NEW JERSEY
 FOR:
 THE KAMSON CORPORATION

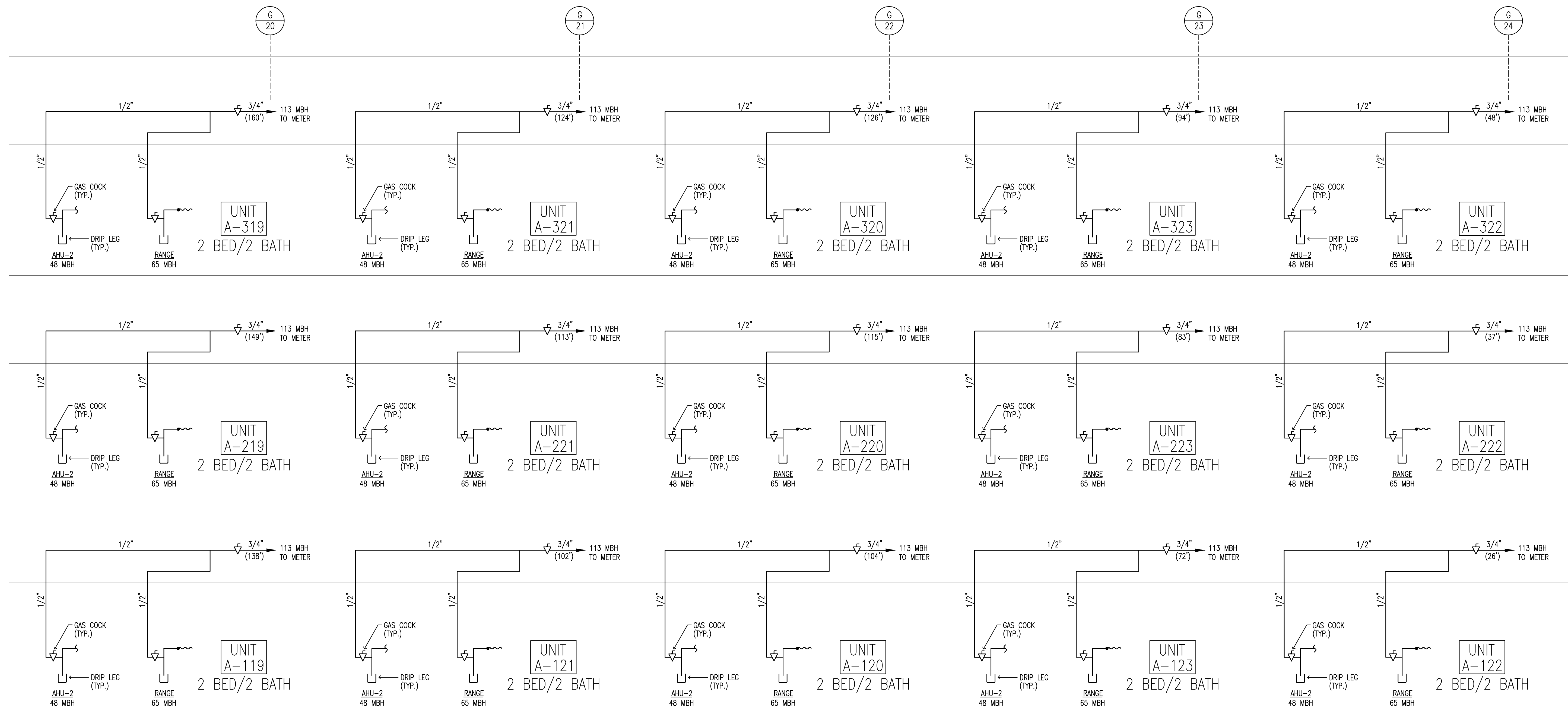
DESIGNED	J-F	SEAL	WILLIAM A. FEINBERG
DRAWN	J-F	DATE	07/23/24
CHECKED	JES	PROJ. NO.	20045
APPROVED	JES	SCALE	AS NOTED
SHEET TITLE		PLUMBING PARTIAL NATURAL GAS RISER	
DATE		07/23/24	SHEET NO.
PROJ. NO.		20045	P15.00
SCALE		AS NOTED	

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05/20/2024

NJ PE LICENSE #: 18513



PARTIAL NATURAL GAS RISER

SCALE: N.T.S.

NOTES:

- 1.) PROVIDE SHUT-OFF VALVE IN EACH APARTMENT. PROVIDE VENTED PRESSURE REGULATORS IN EACH APARTMENT, IF REQUIRED.
- 2.) EMERGENCY GENERATOR REQUIRED GAS PRESSURE IS 14" W.C. SIZING OF GENERATOR BASED ON I.F.G.C. 2021 TABLE 402.4(4).

GAS PIPING SIZING NOTE:
1. SIZING BASED ON I.F.G.C. 2021 TABLE 402.4(3)
LONGEST RUN 320'-0".

NO.	DATE	DESCRIPTION

TWIN PONDS
BUILDING 'C'
BLOCK 2173, LOT 21.01
HAMILTON TOWNSHIP, NEW JERSEY
For:
THE KAMSON CORPORATION

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DESIGNED	SEAL: WILLIAM A. FEINBERG
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DRAWN	PL: AR-0017869
J.F.V.	GA: BA-01045
	EL: 001-017319
	LS:04
	NJ: AJ 13227
	05696-1
	8864
	PA: BA-012068-X
	0147
	VA: 0401 012300
	33878
	OH: 1418212
	4638

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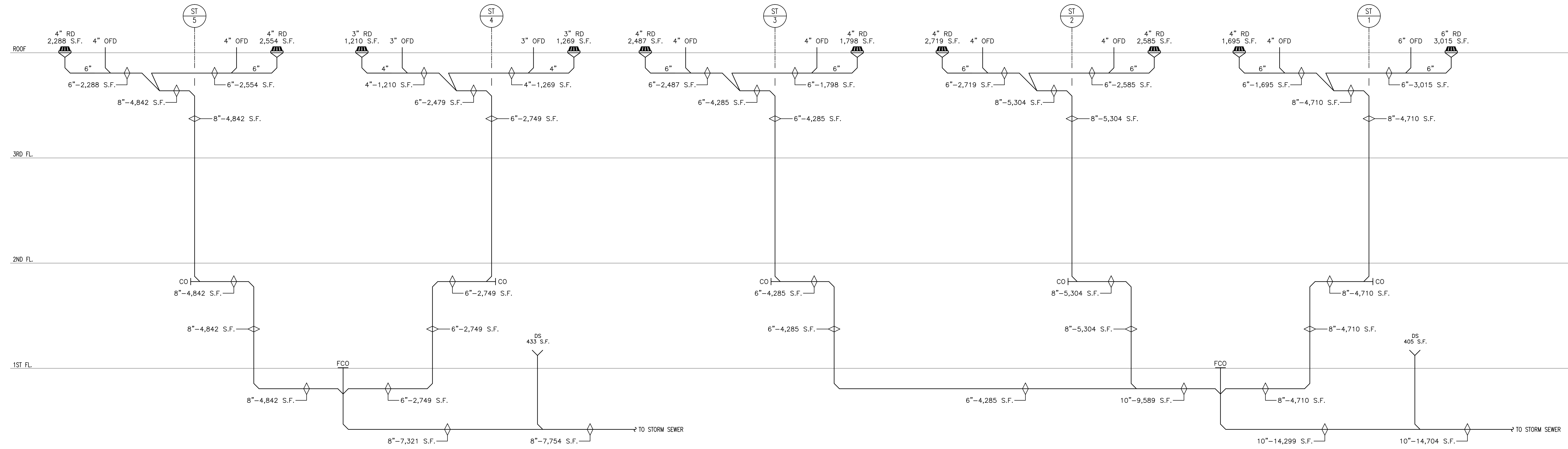
JOHN E. SCHADE ASSOCIATES, INC.
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SHEET TITLE
**PLUMBING
PARTIAL NATURAL
GAS RISER**

DATE: 07/23/24 SHEET NO.
PROJ. NO. 20045 **P16.00**
SCALE: AS NOTED

05/20/2024

NJ PE LICENSE #: 18513



STORM RISER DIAGRAM

SCALE: N.T.S

ALL PIPING PITCHED AT 1/8" PER FOOT.

GENERAL NOTE:
 STORM DRAIN SIZING: (TABLES 13.6.1 & 13.6.2 PART 1, IN THE 2021 NSPC)
 SLOPE 1/8"/FT.
 RAINFALL RATE = 5"/HR.

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NO.	DATE	DESCRIPTION

TWIN PONDS
 BUILDING 'C'
 BLOCK 2173, LOT 21.01
 HAMILTON TOWNSHIP, NEW JERSEY
 For:
 THE KAMSON CORPORATION

DESIGNED: JEV
 DRAWN: JEV
 SEAL: WILLIAM A. FEINBERG
 ASL 8900
 PE-SI-00000008
 PE-AR-0017869
 RA-011045
 PE-CO-017119
 ID-12504
 NJ-AJ-12527
 055666-1
 8864
 PA-RA-012068-X
 SC-6347
 VA-0401 012300
 WA-33876
 OH-1418212
 RI-4058

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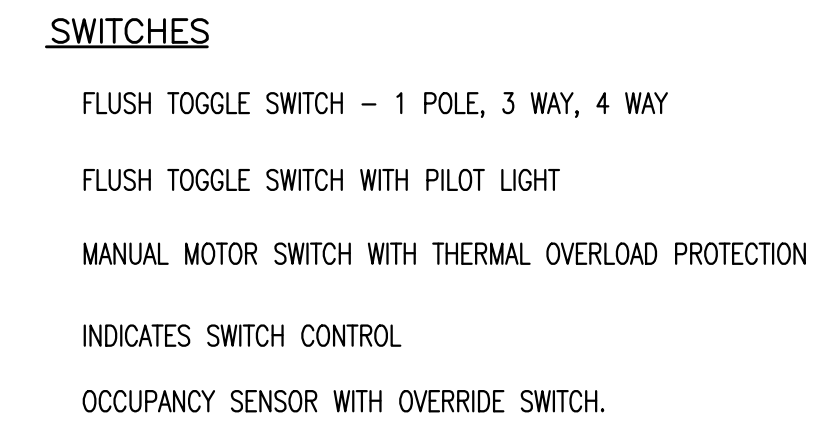
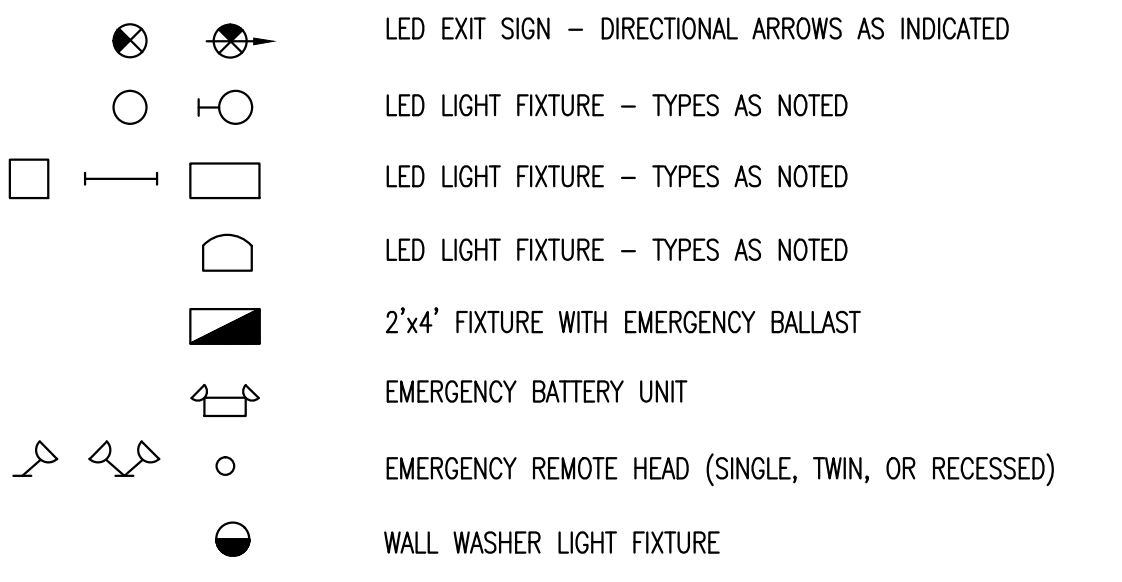
DESIGNED: JEV
 DRAWN: JEV
 CHECKED: JES
 APPROVED: JEV
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 DATE: 07/23/24
 PROJ. NO: 20245
 SCALE: AS NOTED
 SHEET NO: P17.00

05/20/2024
 NJ PE LICENSE # 18513

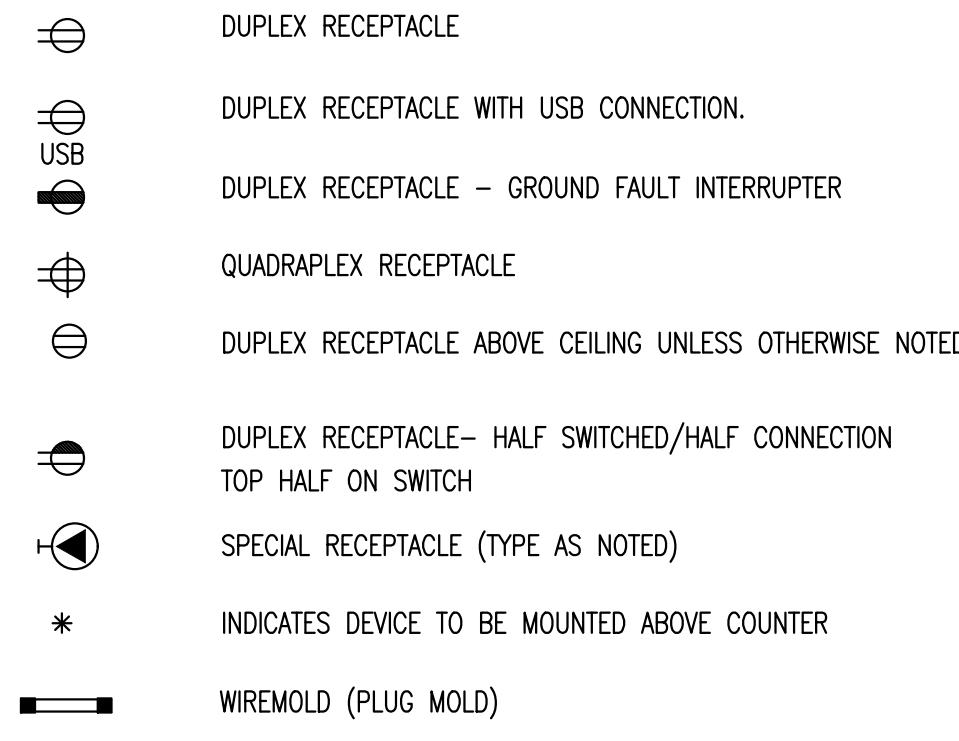
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ELECTRICAL SYMBOL LIST (BUILDING)

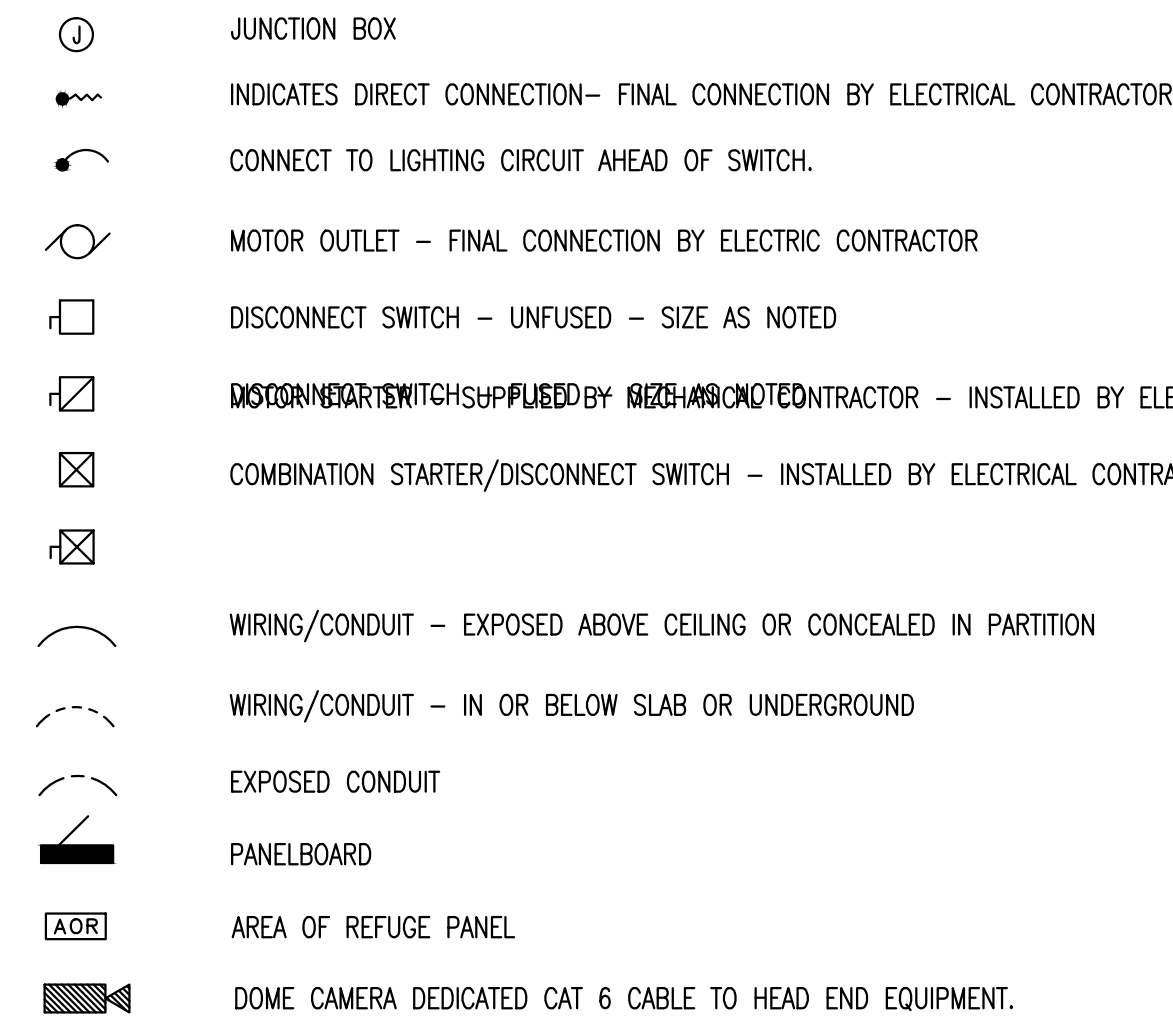
LIGHTING



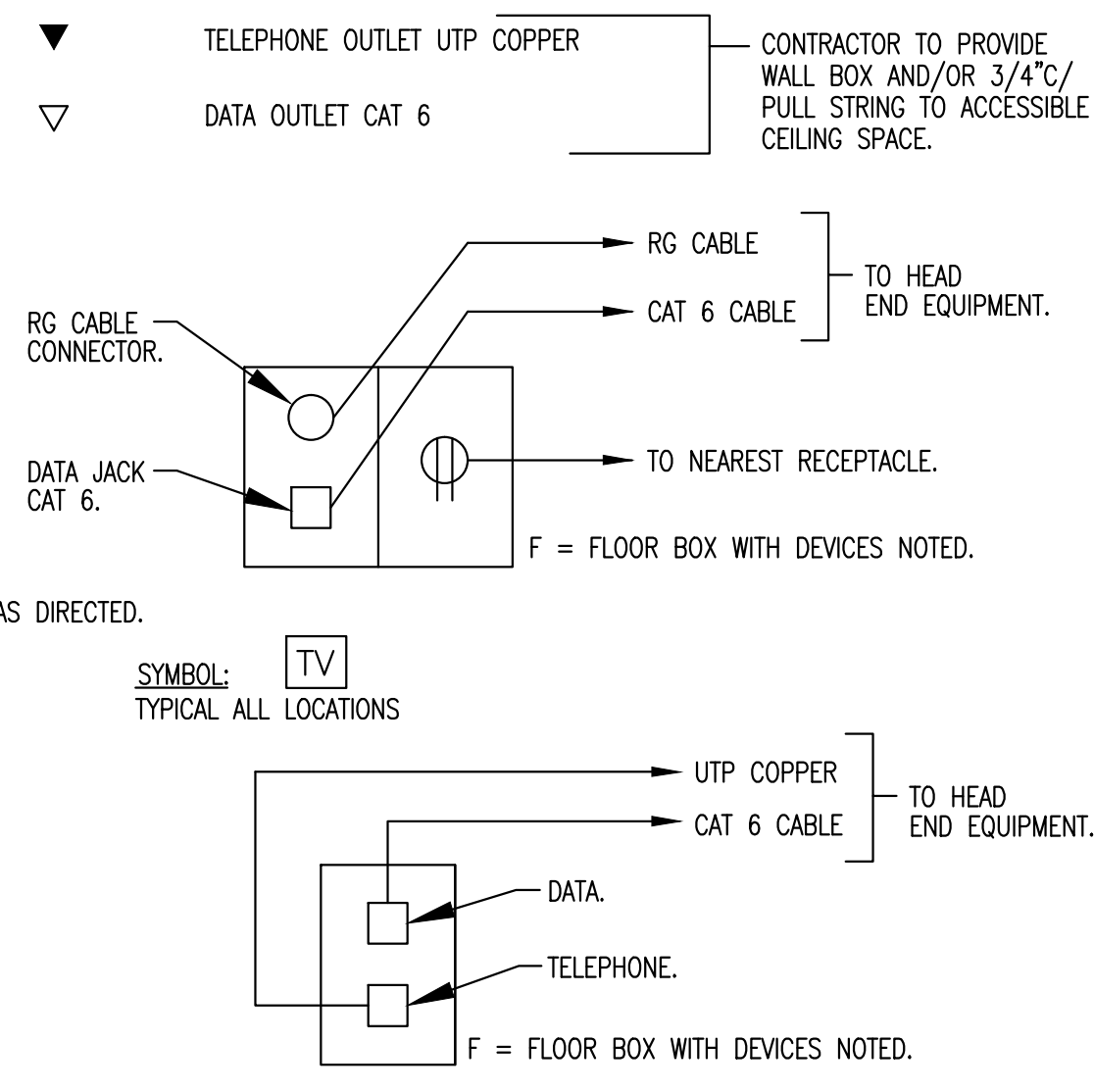
RECEPTACLES



SERVICE EQUIPMENT



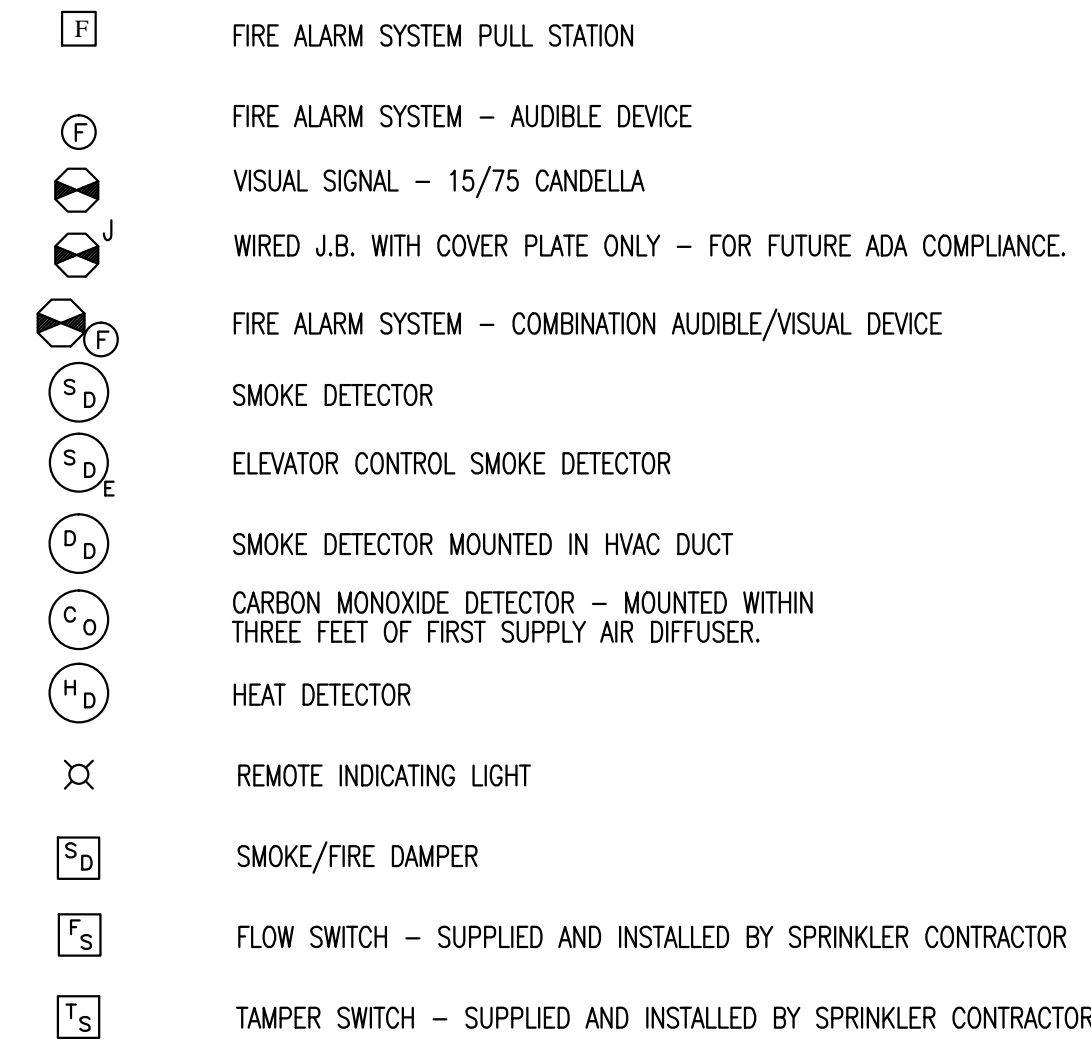
COMMUNICATION SYSTEMS



NOTES:

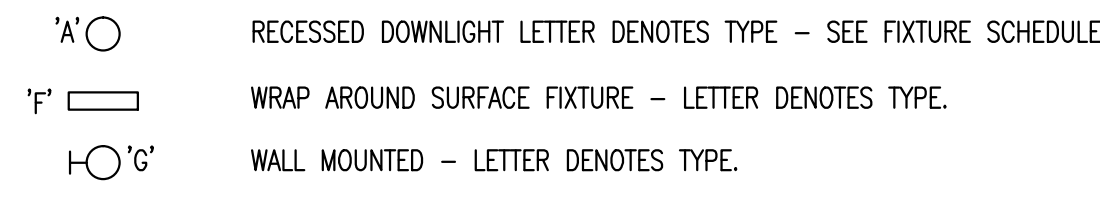
- CONTRACTOR TO PROVIDE CABLE BACK BOXES, COVER PLATES, JACKS AND CABLE CONNECTIONS / BOTH ENDS CONNECTOR/JACK TYPES AS DIRECTED.
- HEAD END EQUIPMENT BY OWNER/UTILITY.

FIRE ALARM SYSTEMS

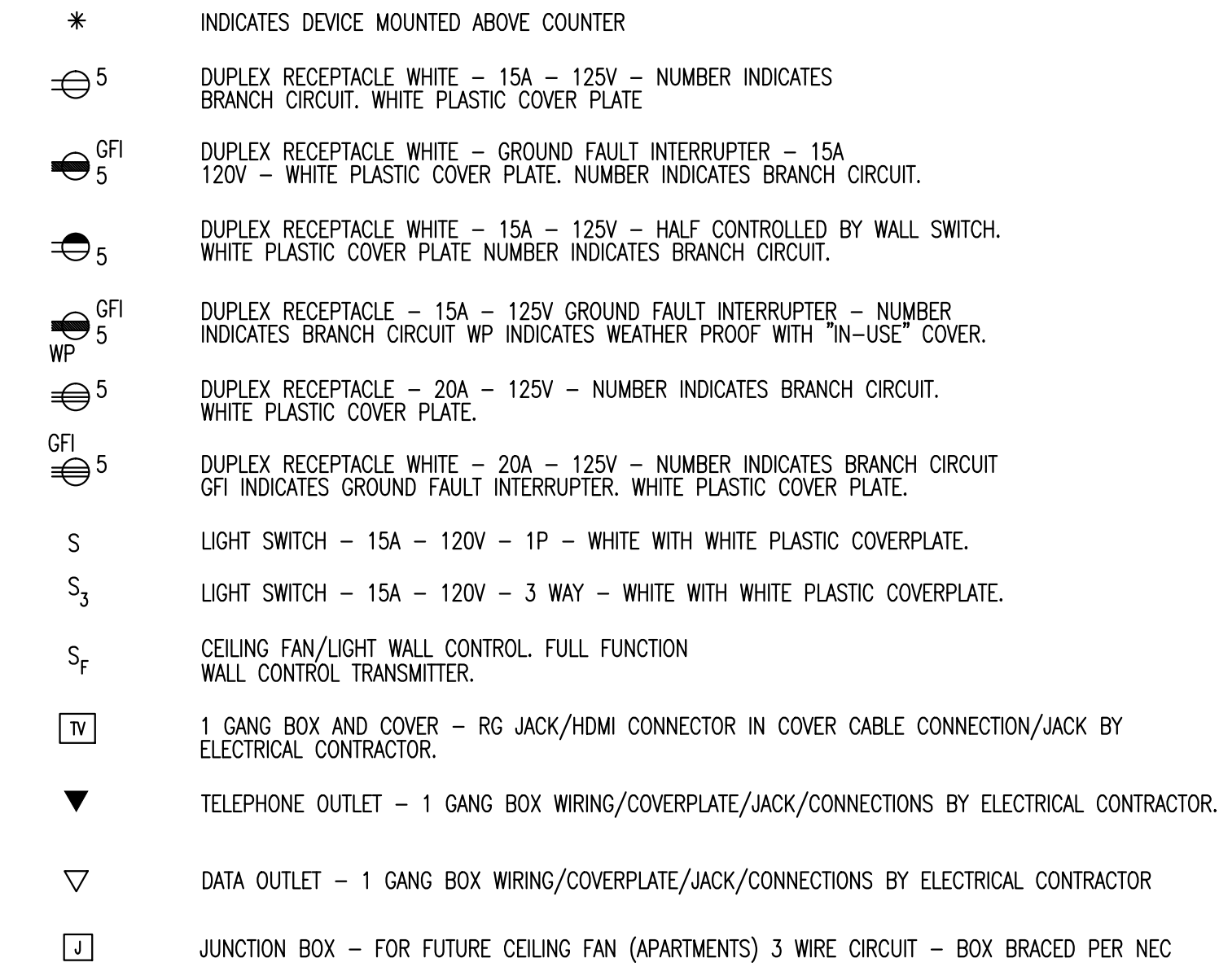


ELECTRICAL SYMBOL LIST (APARTMENTS)

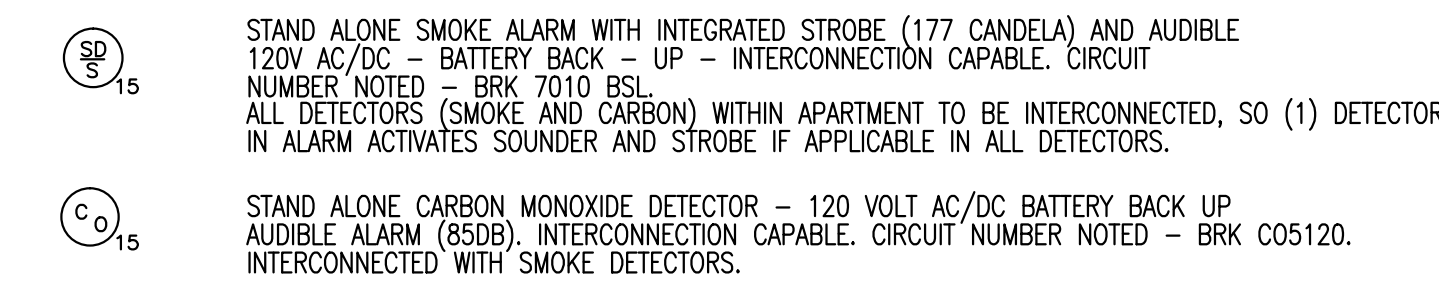
LIGHTING FIXTURES



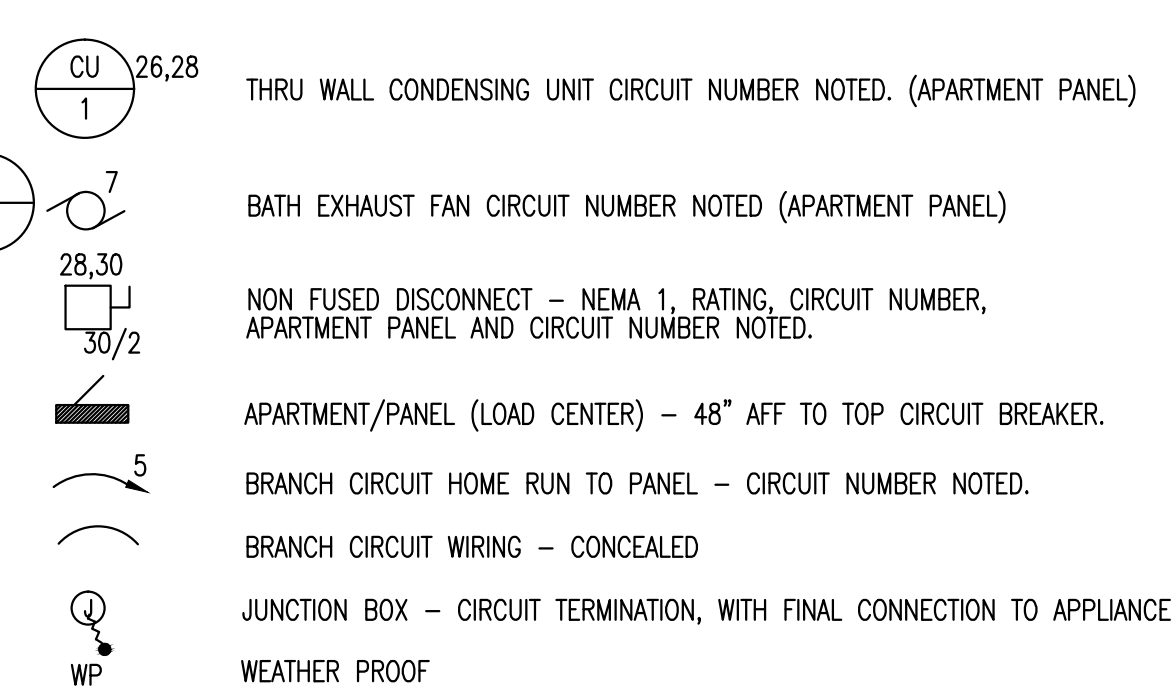
WIRING DEVICES



SMOKE/CO ALARMS



HEAT/AC (REFER TO MECHANICAL SCHEDULES FOR SPECIFICATION)



LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NO.	VOLT	LAMP					TOTAL FIXTURE WATTS	MOUNTING	REMARKS	
				NO	TYPE	WATT	LUMENS	TEMP				CRI
A	PARALLAZ	FM-73132	120	LED		3000				RECESSED	WAC LIGHTING 8N BRUSHED NICKEL	
A1	PARALLAZ	FM-73123	120	LED						RECESSED	SAME AS 'A' BUT 4"	
ASL	HADD	TW3348-G3-4-730-S	120	LED	48	8350				WALL	REFER TO CIVIL DRAWING TYPE 'A'	
B	PROGRESS	P710052-009-30	120	LED						WALL	WALL SCONCE BRUSHED NICKEL	
C	PROGRESS	P810024-03-30	120	LED						FLUSH	5" EDGE/LIT ROUND FLUSH MOUNT	
D	HE WILLIAMS	SFL-4-452-830-HA-DM-UW	120	LED	37	5200	3000	80	37	SURFACE	# STAIRWELL FIXTURE WITH BUILT-IN OCCUPANCY SENSOR	
E	HE WILLIAMS	75L-4-150-830-DMA-VBY-2-DIM-UM	120	LED			5000	3000	80	42	CEILING	# LENSED STRIP WITH Y-HANGERS
F	COLUMBIA	VTC-SK-G-UW1-G-GR	120	1	LED	27	1940	5000	70	27	VAPORITITE ELEVATOR PIT LIGHT (LED EQUIVALENT)	
G	EXO LIGHT	LNC-SK-G-UW1-G-GR	120	LED	13	1000	5000	80	13	WALL	EXTERIOR ABOVE DOOR WITH PHOTOCELL	
G1	SUNLIGHT	B1166-SL4LED	120	LED	23	1200	3000		23	WALL	OUTDOOR WALL SCONCE PER INTERIOR DESIGN DRAWING	
K	DUAL-LITE	LES-MOUNT-D-R-XW-E-SW11	120	LED							AREA OF REFUGE SIGN, DOUBLE SIDED W/BATTERY BACK-UP	
L	LIGHTLOGY	HLD078167	120	LED							SEMI FLUSH DUNKIRK HUDSON VALLEY LIGHTING	
M	LIGHTLOGY	MFR1128788	120	LED							CHANDLIER IMIES CHANDLIER 32" BRUSHED NICKEL MODERN FORMS	
N	LIGHTLOGY	AFX1084700	120	LED							ORION CEILING LIGHT FIXTURE - AFX	
O	PROGRESS	P710047-009-30	120	LED						WALL	BLANCO LED SCONCE (AT ALL ENTRY DOORS)	
EM	COMPASS	CL2RC	120	LED	1.62					SURFACE	EMERGENCY BATTERY UNIT WITH REMOTE CAPABILITY	
EMA	COMPASS	CO2R	120	LED	1.5					SURFACE	OUTDOOR EMERGENCY DOUBLE HEAD - WEATHER PROOF	
X	COMPASS	OCESRE	120	LED	1					UNIVERSAL	EXT SIGN - EM BATTERY - RED LETTERS - DIRECTIONAL ARROWS AS NOTED	
X1	COMPASS	OCEDRE	120	LED	1					UNIVERSAL	SAME AS 'X' EXCEPT DOUBLE FACE	

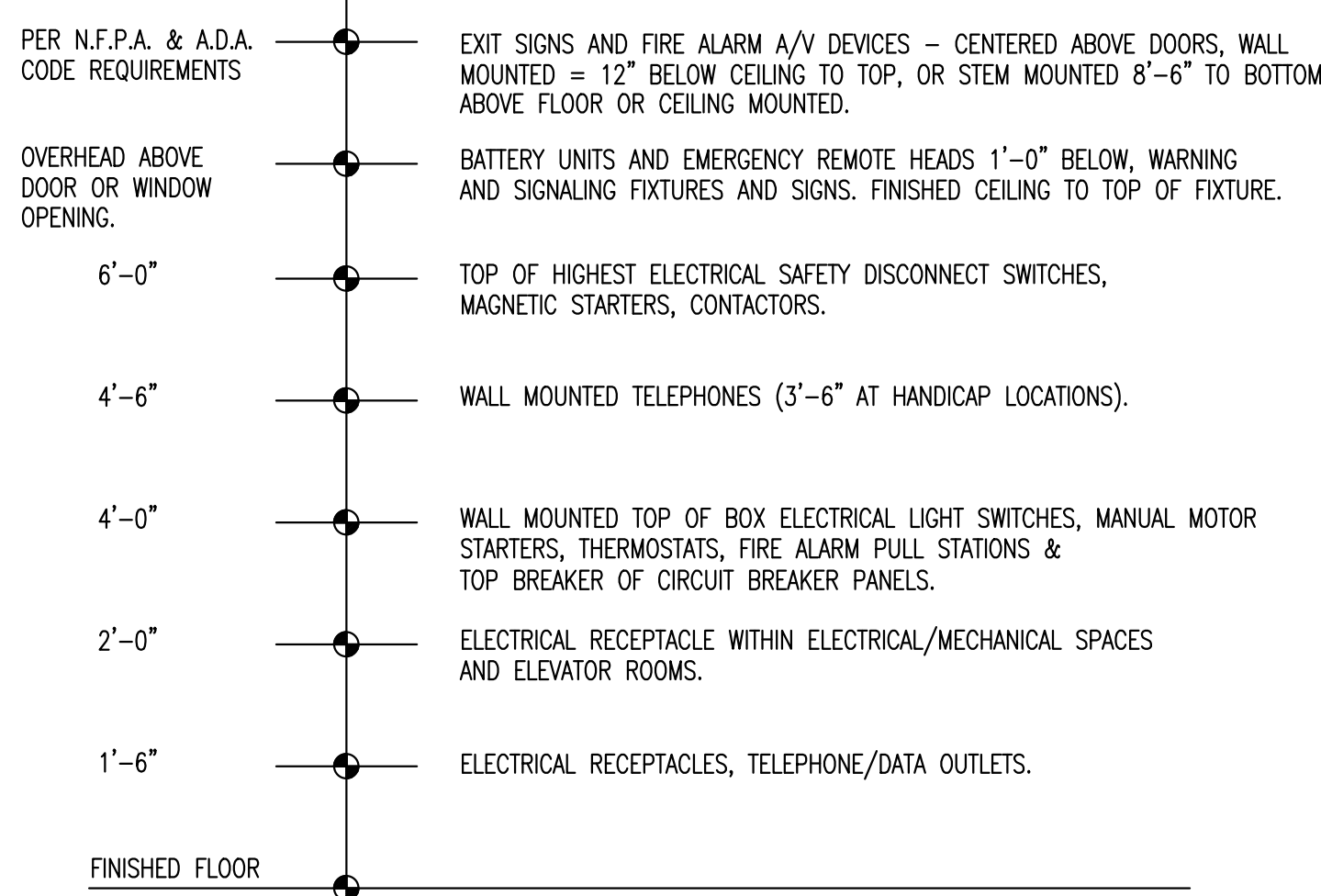
LIGHTING FIXTURE SCHEDULE (APARTMENTS)

TYPE	MANUFACTURER	CATALOG NO.	VOLT	LAMP					TOTAL FIXTURE WATTS	MOUNTING	REMARKS	
				NO	TYPE	WATT	LUMENS	TEMP				CRI
AA	HALO	HLC9-09-030-1E-WH	120	1	LED	15.7	925	3000	90		6" LED	
BB	PROGRESS	P400009-009	120	3	A	100				300	CHAIN	APARTMENT CHANDELIER. PROVIDE 100W EQUIVALENT LED LAMP
CC	PROGRESS	P7279-3000K9	120	LED	40	2908	3000	90			SURFACE	# SURFACE MOUNT (LAUNDRY)
DD	PROGRESS	P2159-09	120	LED							WALL	3-LIGHT BATH & VANITY
EE	COLUMBIA	VTC-SK-G-UW1-G-GR	120	1	LED	27	1940	5000	70	27	WALL	BALCONY UTILITY CLOSET LIGHT
FF			120	LED								BALCONY LIGHT

NOTE: PROVIDE 12V POWER SUPPLIES FOR TYPE 'AA' FIXTURES

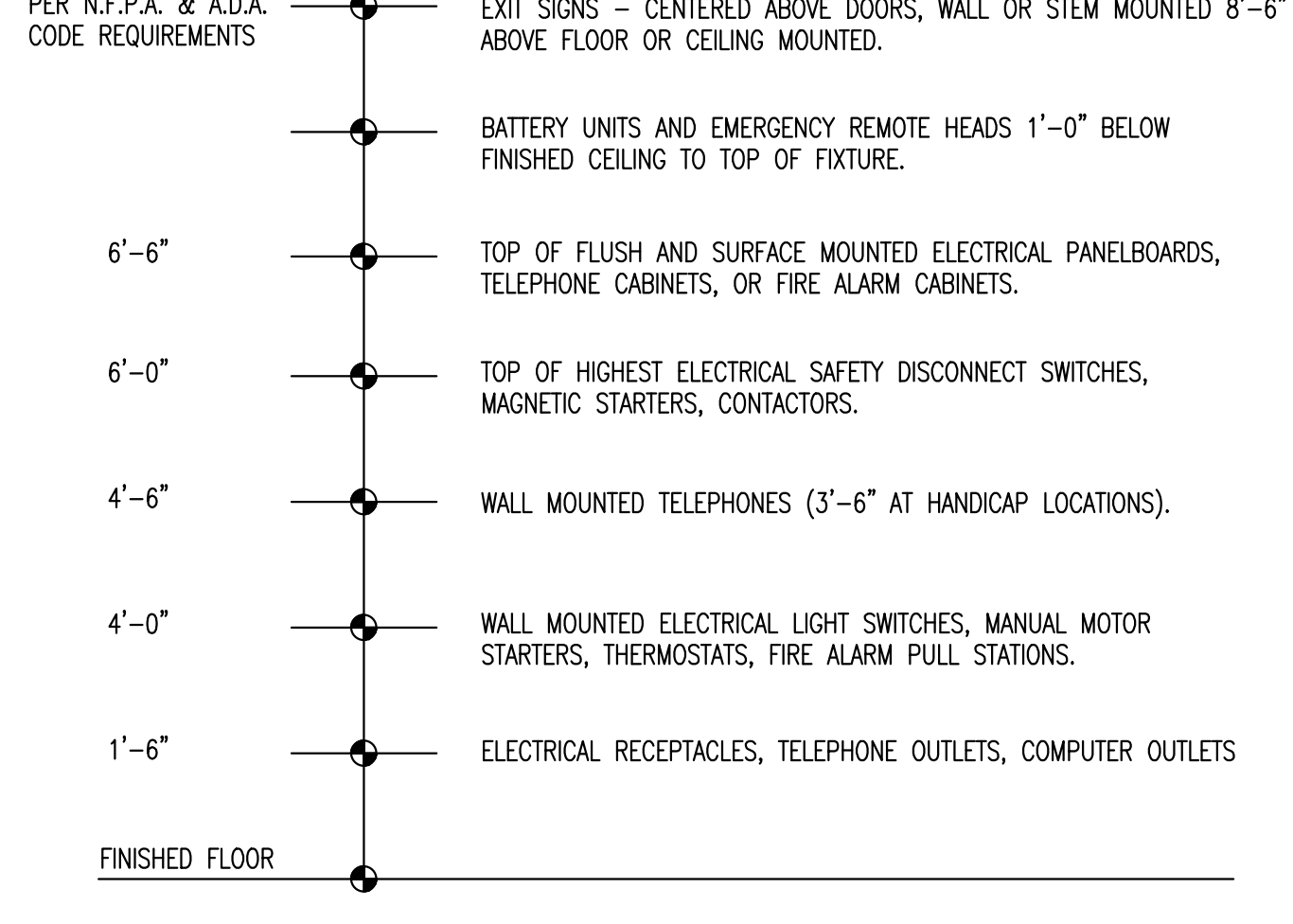
EMERGENCY RESPONDER RADIO COVERAGE

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL APPROVED RADIO COVERAGE FOR EMERGENCY RESPONDERS WITHIN THE BUILDING BASED UPON THE COVERAGE LEVELS OF THE PUBLIC SAFETY COMMUNICATION SYSTEMS OF THE LOCAL JURISDICTION SYSTEM SHALL BE IN ACCORDANCE WITH IBC, IFC, AND LOCAL FIRE CODE OFFICIAL.



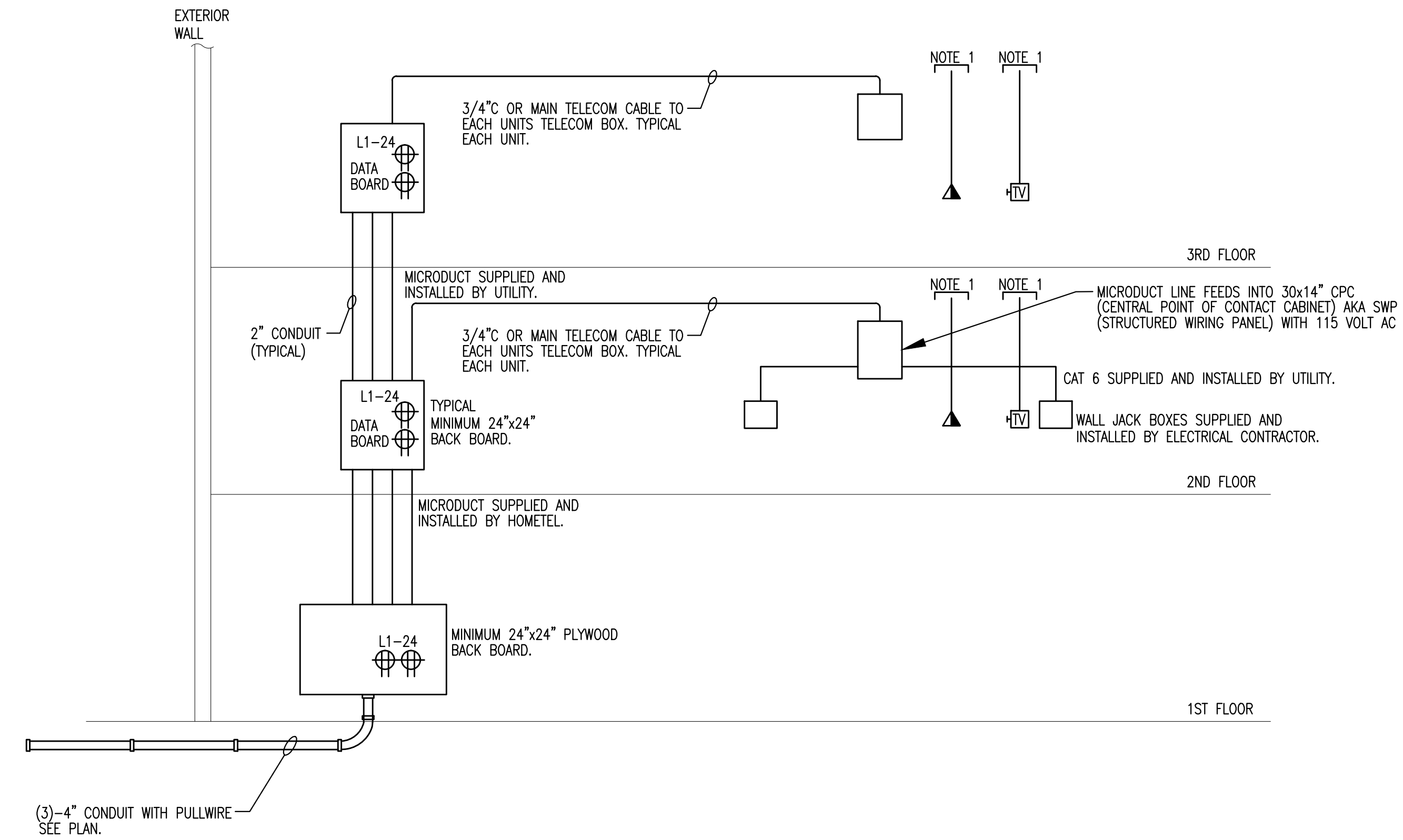
TYPICAL APARTMENT STANDARD MOUNTING HEIGHTS
SCALE: NONE

- NOTES:
- MOUNTING HEIGHTS TO TOP OF BACK BOXES PER ADA REQUIREMENT UNLESS OTHERWISE NOTED. IN NO CASE SHALL TOP OF DEVICE EXCEED 48".
 - THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS OR SPECIFICATIONS. COORDINATE ALL LOCATIONS WITH ARCHITECTURAL DRAWINGS, FURNITURE PLANS, AND ELEVATIONS, BEFORE ROUGH-IN.



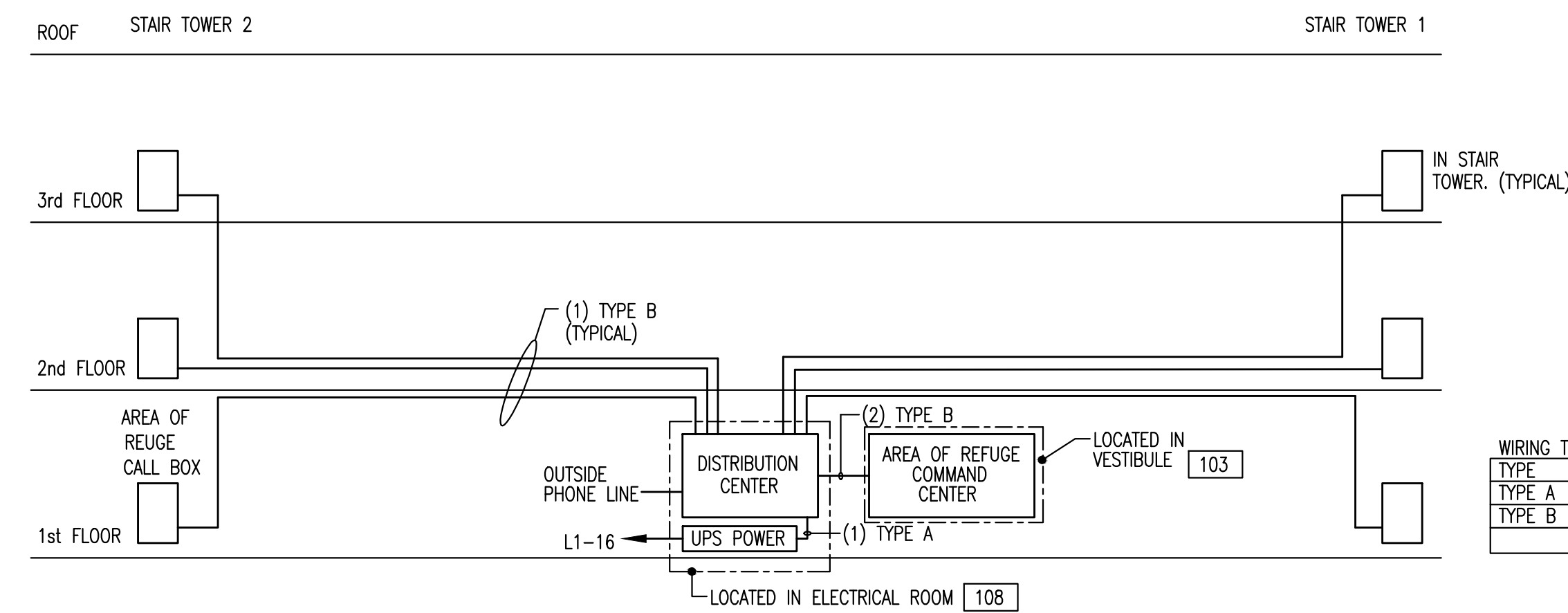
TYPICAL BUILDING STANDARD MOUNTING BUILDING HEIGHTS
SCALE: NONE

- NOTES:
- MOUNTING HEIGHTS TO TOP OF OUTLETS UNLESS OTHERWISE NOTED. IN MASONRY WALL CONSTRUCTION THE ABOVE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO NEAREST BLOCK OR BRICK COURSE, BUT NOT TO EXCEED DIMENSION GIVEN.
 - THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS OR SPECIFICATIONS.



TELECOM/CABLE TV RISER DIAGRAM

- NOTES:
- PROVIDE 2-PAIR RESIDENTIAL STYLE TELEPHONE CABLE OR CAT5E TELECOM CABLE BETWEEN ALL TELECOM OUTLETS IN A DWELLING UNIT. PROVIDE (1) PRIMARY LINE FROM EACH DWELLING UNIT BACK TO THE TELEPHONE BOARD.
 - CENTRAL LOW VOLTAGE PANEL FOR CATV, VOICE AND DATA. ALL CATV, VOICE AND DATA DROPS IN UNIT SHALL ROUTE BACK TO THIS BOARD.
 - PROVIDE RESIDENTIAL STYLE COAX CABLE BETWEEN ALL CATV OUTLETS IN A TYPICAL UNIT. PROVIDE 1 PRIMARY CATV LINE BACK TO CATV CABINET FROM UNITS CATV DEMARCATION POINT.



AREA OF REFUGE DIAGRAM

- NOTES:
- SYSTEM COMPONENTS - BATH.
 - SYSTEM SHALL BE IN COMPLIANCE WITH ALL CODES, INCLUDING IBC-2018-NJ EDITION.
 - SYSTEM SHALL HAVE (2) WAY COMMUNICATION WITH OFF-SITE, 24 HOUR ATTENDED LOCATION.
 - BUILDING DOES NOT HAVE 24 HOUR ATTENDANT.

WIRING TYPE LEGEND

TYPE	DESCRIPTION	WIRE TYPE
TYPE A	24V POWER	14/2 TWISTED NON-SHEATHED
TYPE B	AREA OF REFUGE CIRCUIT	CAT-5e ETHERNET CABLE

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05/20/2024

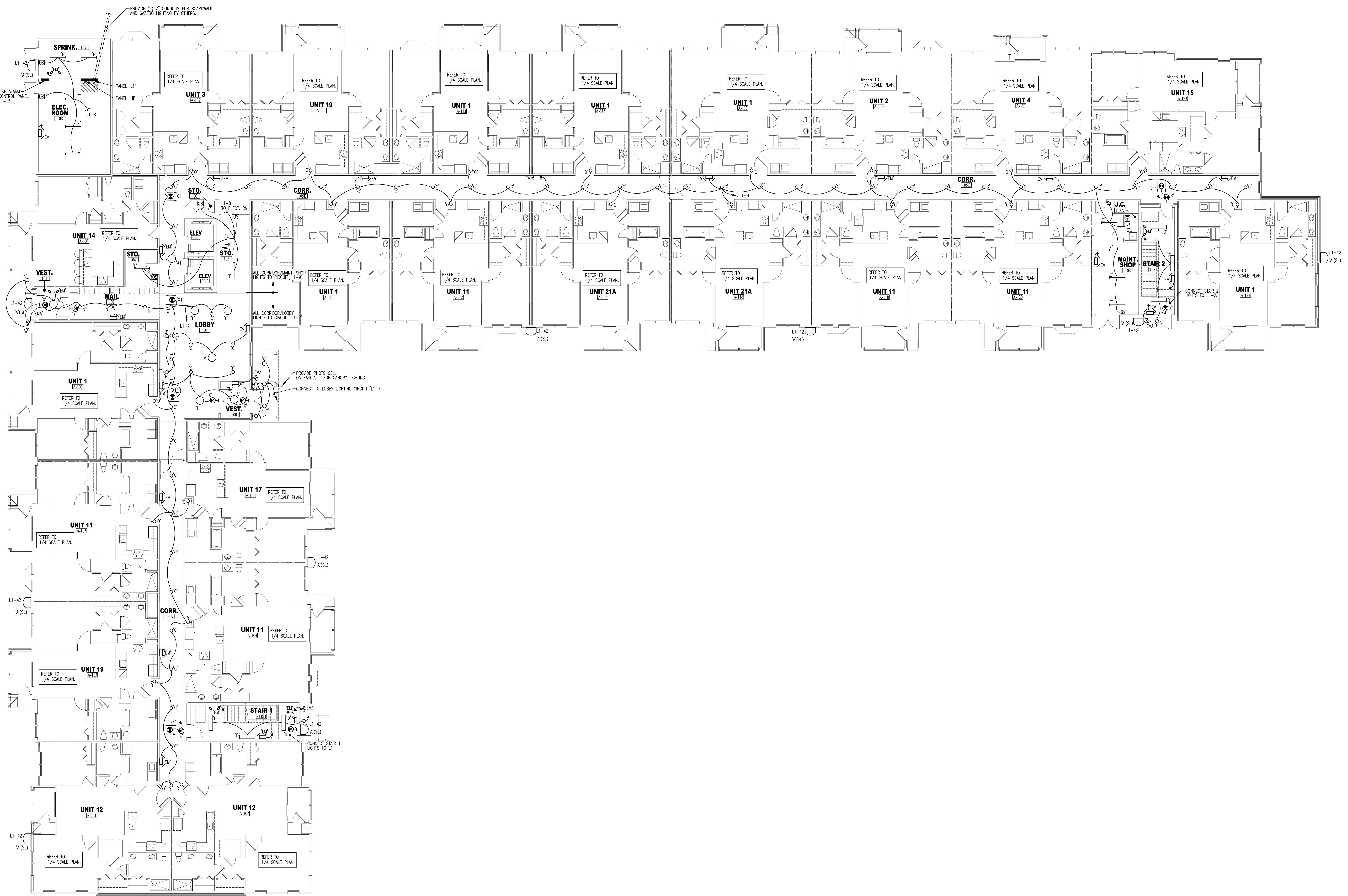
NJ PE LICENSE #: 18513

DESIGNED BY: WILLIAM A. FEINBERG
CHECKED BY: JES
APPROVED BY: JES

DRAWN BY: JES
DATE: 07/23/24
PROJECT: 202045
SCALE: AS NOTED

SHEET TITLE: ELECTRICAL SYMBOLS NOTES & SCHEDULES

DATE: 07/23/24 SHEET NO. E-1.00
PROJ. NO. 202045
SCALE: AS NOTED



ELECTRICAL FIRST FLOOR LIGHTING PLAN

SCALE: 1/8" = 1'-0"

- NOTES: 1. CONNECT EMERGENCY BATTERY UNITS AND EXIT SIGNS AHEAD OF SWITCHES IN AREA SERVED.

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 BUILDING 'C'
 BLOCK 2173, LOT 21.01
 HAMILTON TOWNSHIP, NEW JERSEY
 For:
 THE KAMSON CORPORATION

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	NJ	AJ 12527
	NY	03696-1
	PA	8964
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	MA	0401 012300
	RI	141822
	OH	4638

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JOHN E. SCHADE ASSOCIATES, INC.

CONSULTING ENGINEERS
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 CHALFONT, PA 18914
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 EMAIL: jeschade@eschadepc.com

DESIGNED	DATE	07/23/24	SHEET NO.
DRAWN	PROJ. NO.	20045	E-200
CHECKED	SCALE	AS NOTED	
APPROVED			

05/20/2024

NJ PE LICENSE # 18513

DESIGNED	SEAL: WILLIAM A. FEINBERG
C.M.	ASL 9909
DRWN	SI-0006068
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	CA BA-01045
	SI 001-01719
	LS04
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	03696-1
	884
	BA-012068-X
	SC 6347
	VA 0401 012300
	MA 31875
	OH 1418212
	4638

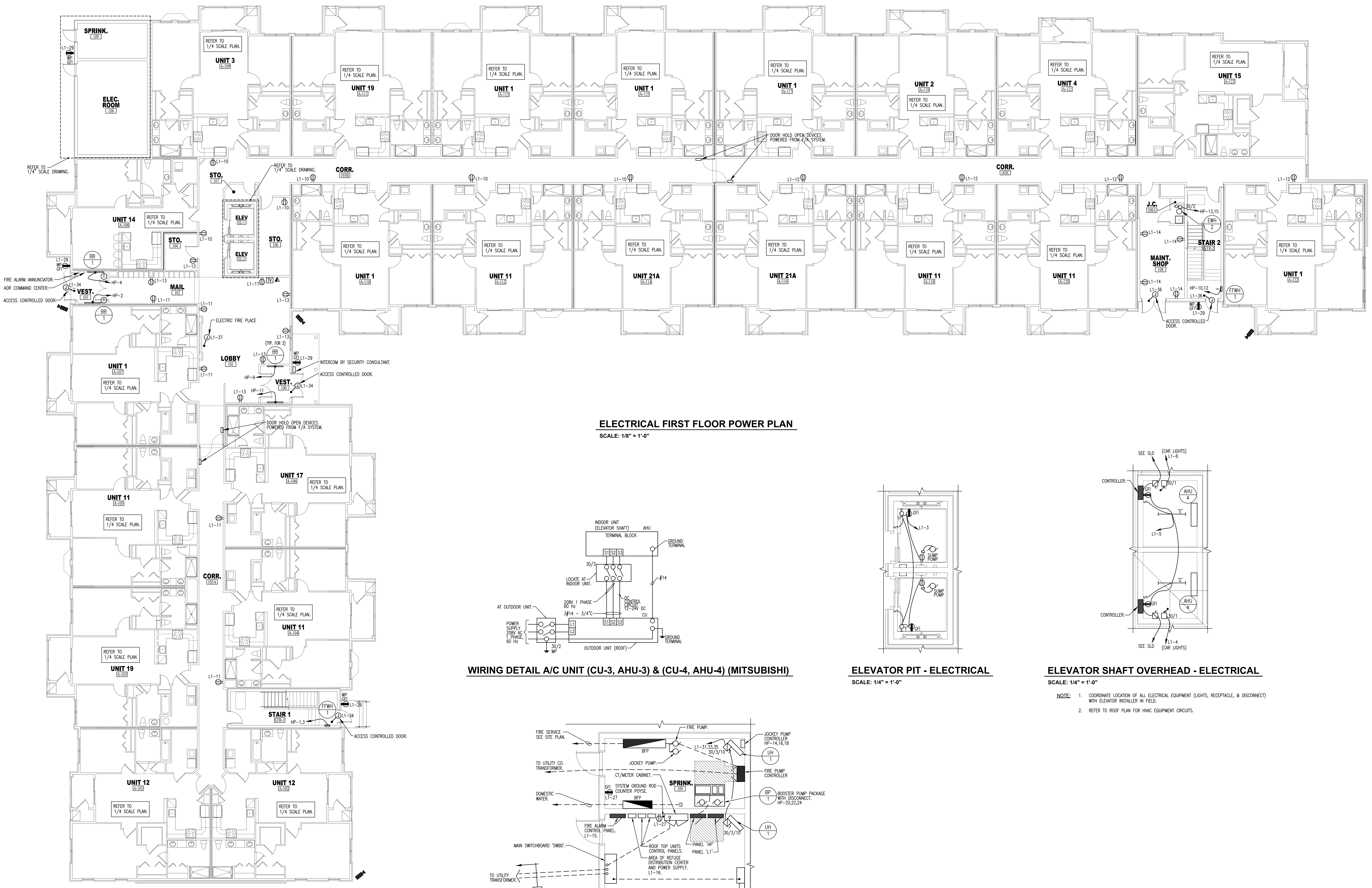
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THIS PRINT IS THE PROPERTY OF JOHN E. SCHADE AND MAY NOT BE REPRODUCED IN ANY MANNER NOR SHALL IT BE SUBMITTED TO OUTSIDE PARTIES FOR EXAMINATION WITHOUT SPECIFIC WRITTEN CONSENT FROM JOHN E. SCHADE.	ELECTRICAL FIRST FLOOR POWER PLAN
DATE: 01/23/24	SHEET NO.
PROJ. NO. 20045	E-3.00
SCALE: AS NOTED	

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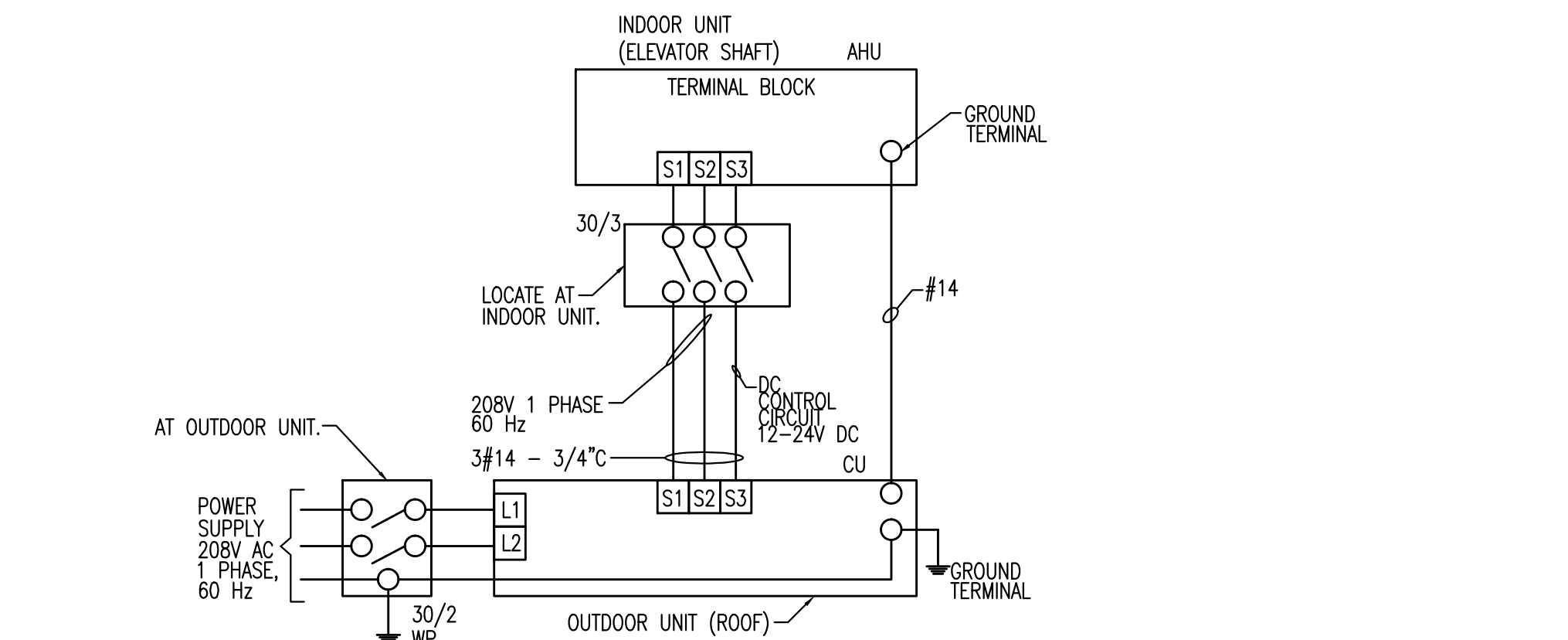
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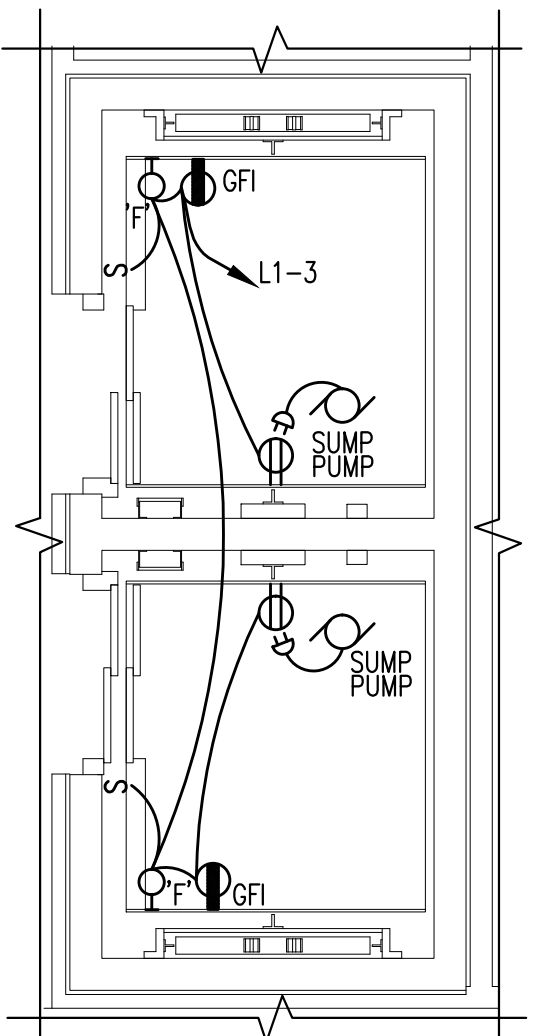
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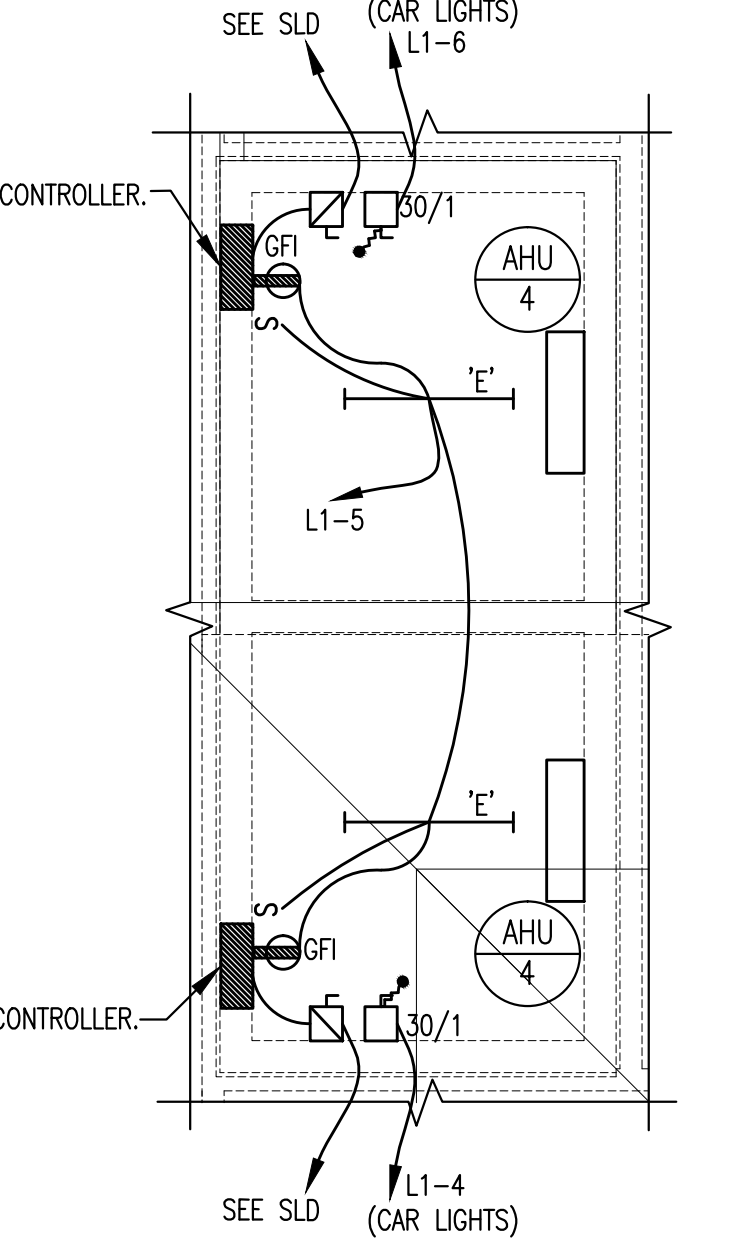
ELECTRICAL FIRST FLOOR POWER PLAN
 SCALE: 1/8" = 1'-0"



WIRING DETAIL A/C UNIT (CU-3, AHU-3) & (CU-4, AHU-4) (MITSUBISHI)

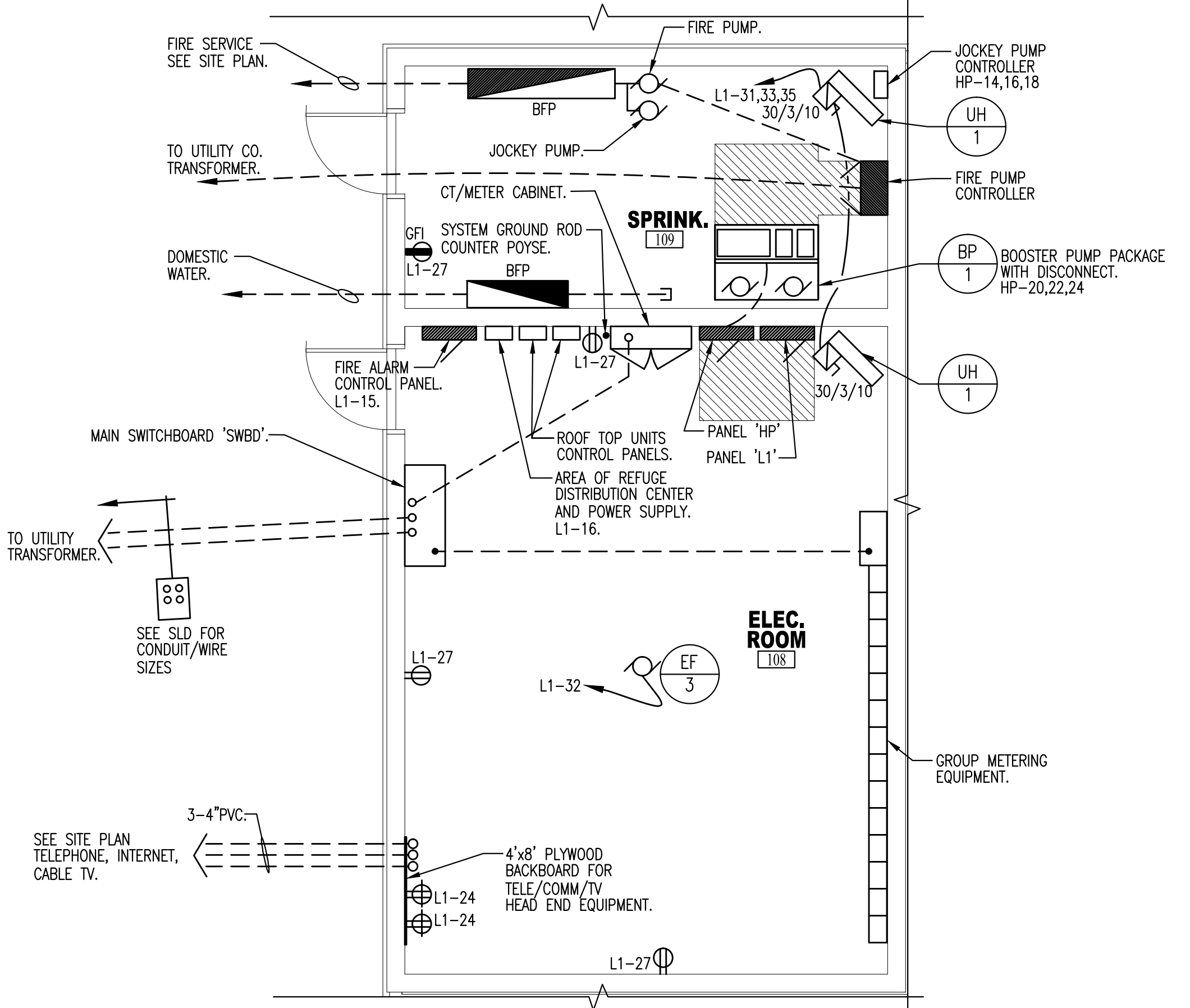


ELEVATOR PIT - ELECTRICAL
 SCALE: 1/4" = 1'-0"

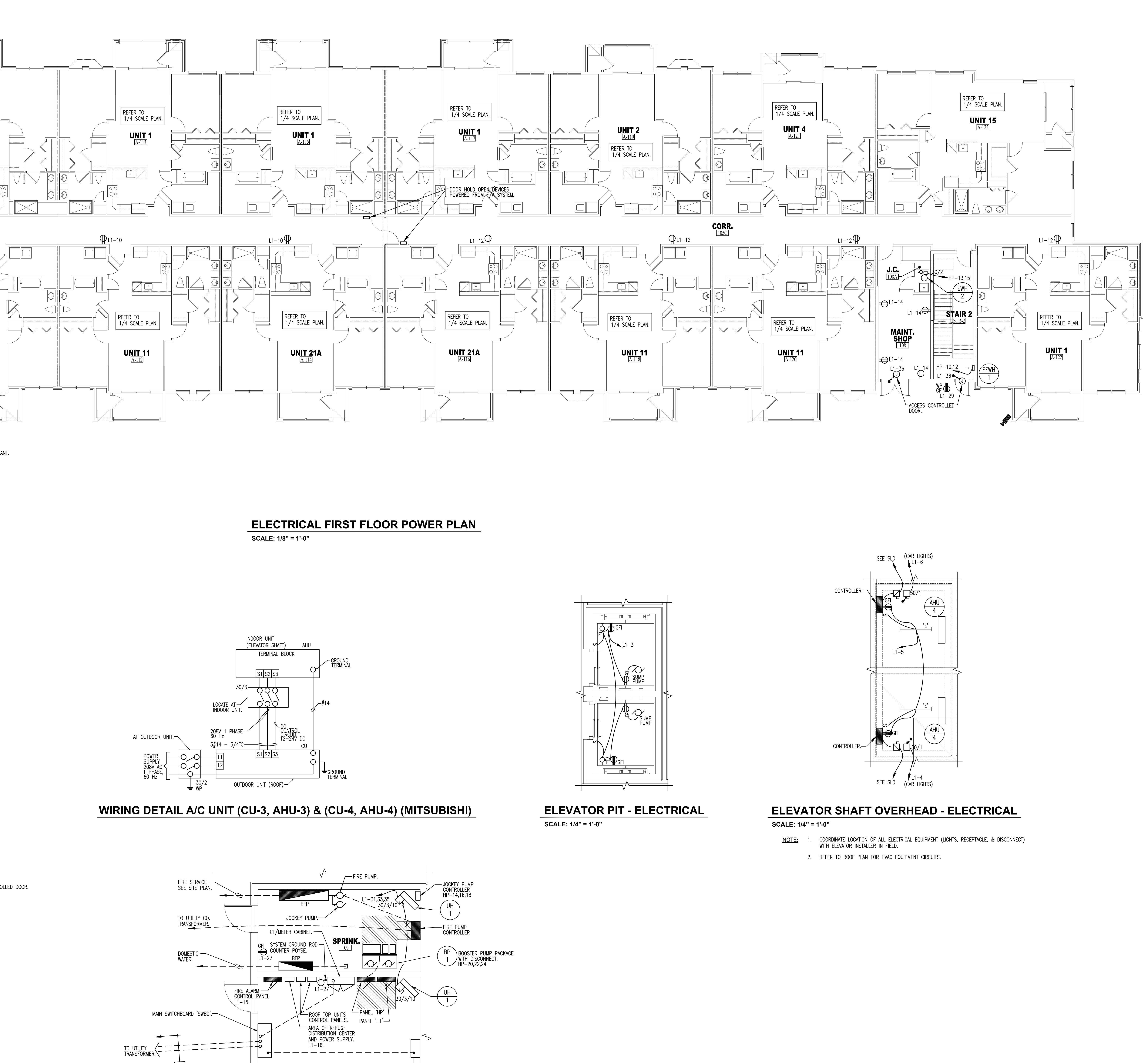
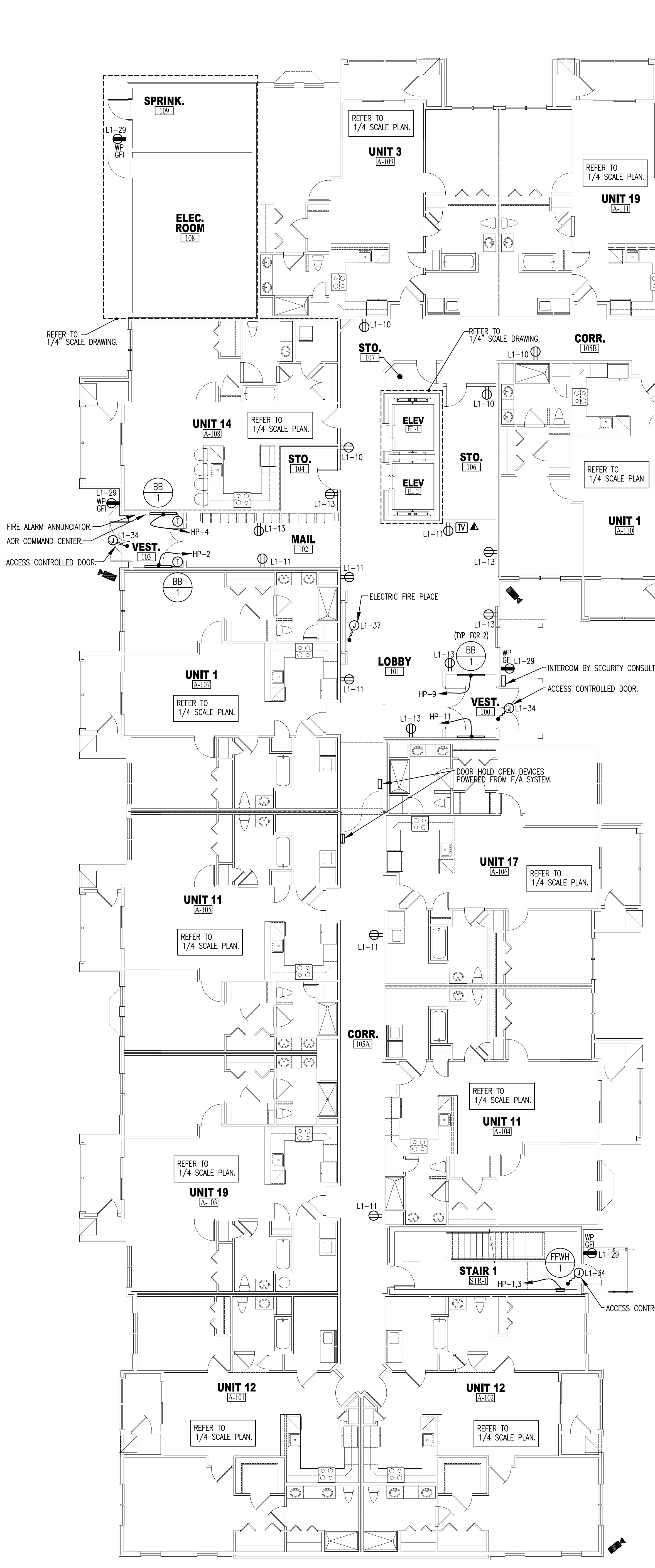


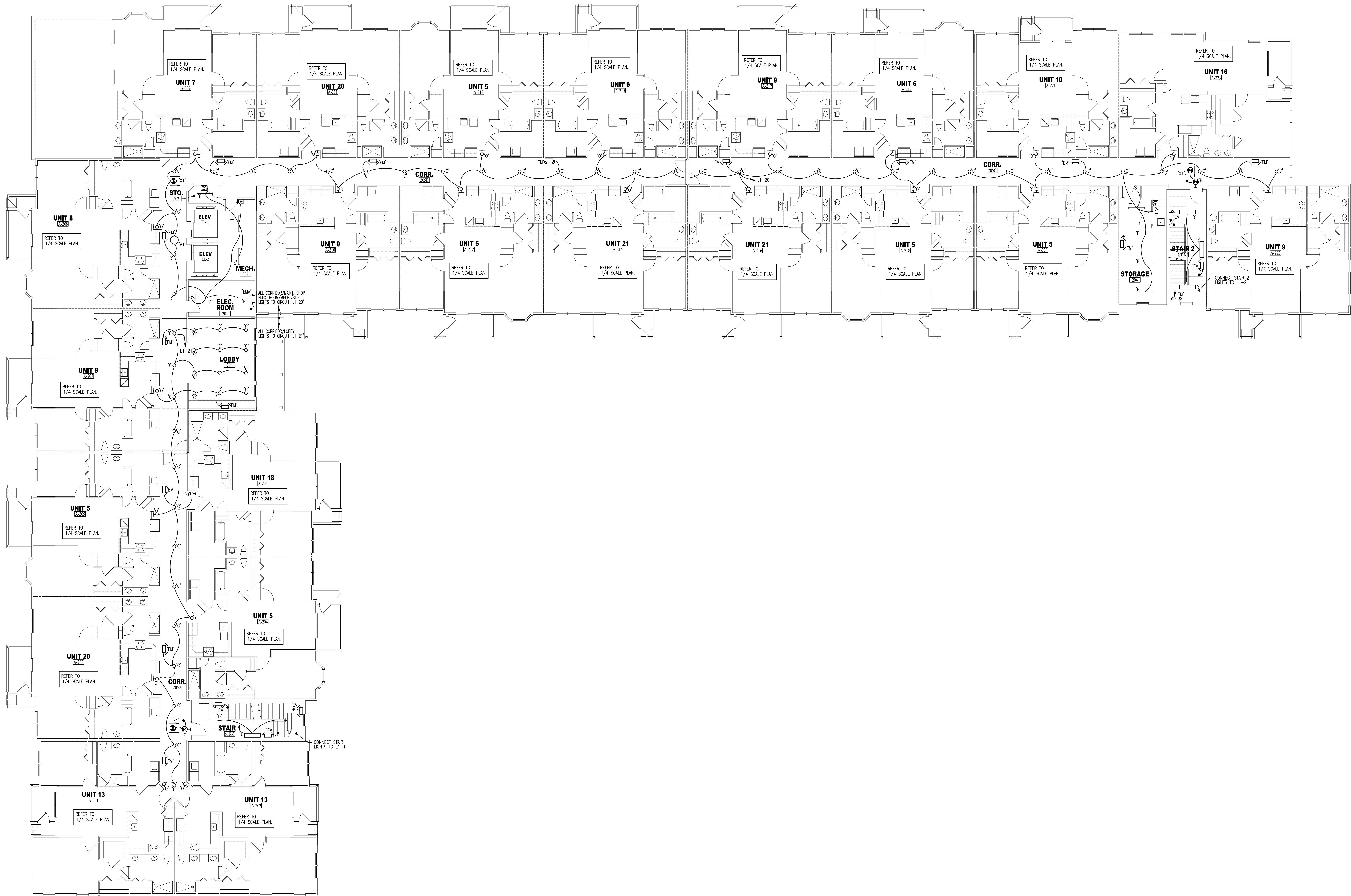
ELEVATOR SHAFT OVERHEAD - ELECTRICAL
 SCALE: 1/4" = 1'-0"

- NOTE:
- COORDINATE LOCATION OF ALL ELECTRICAL EQUIPMENT (LIGHTS, RECEPTACLE, & DISCONNECT) WITH ELEVATOR INSTALLER IN FIELD.
 - REFER TO ROOF PLAN FOR HVAC EQUIPMENT CIRCUITS.



ELECTRICAL ROOM 108 / SPRINKLER ROOM 109 FLOOR PLAN
 SCALE: 1/4" = 1'-0"





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

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NO.	DATE	REVISIONS

TWIN PONDS BUILDING 'C'
 BLOCK 2173, LOT 21.01
 HAMILTON TOWNSHIP, NEW JERSEY
 For: **THE KAMSON CORPORATION**

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ELECTRICAL SECOND FLOOR POWER PLAN

SCALE: 1/8" = 1'-0"

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NO.	DATE	DESCRIPTION

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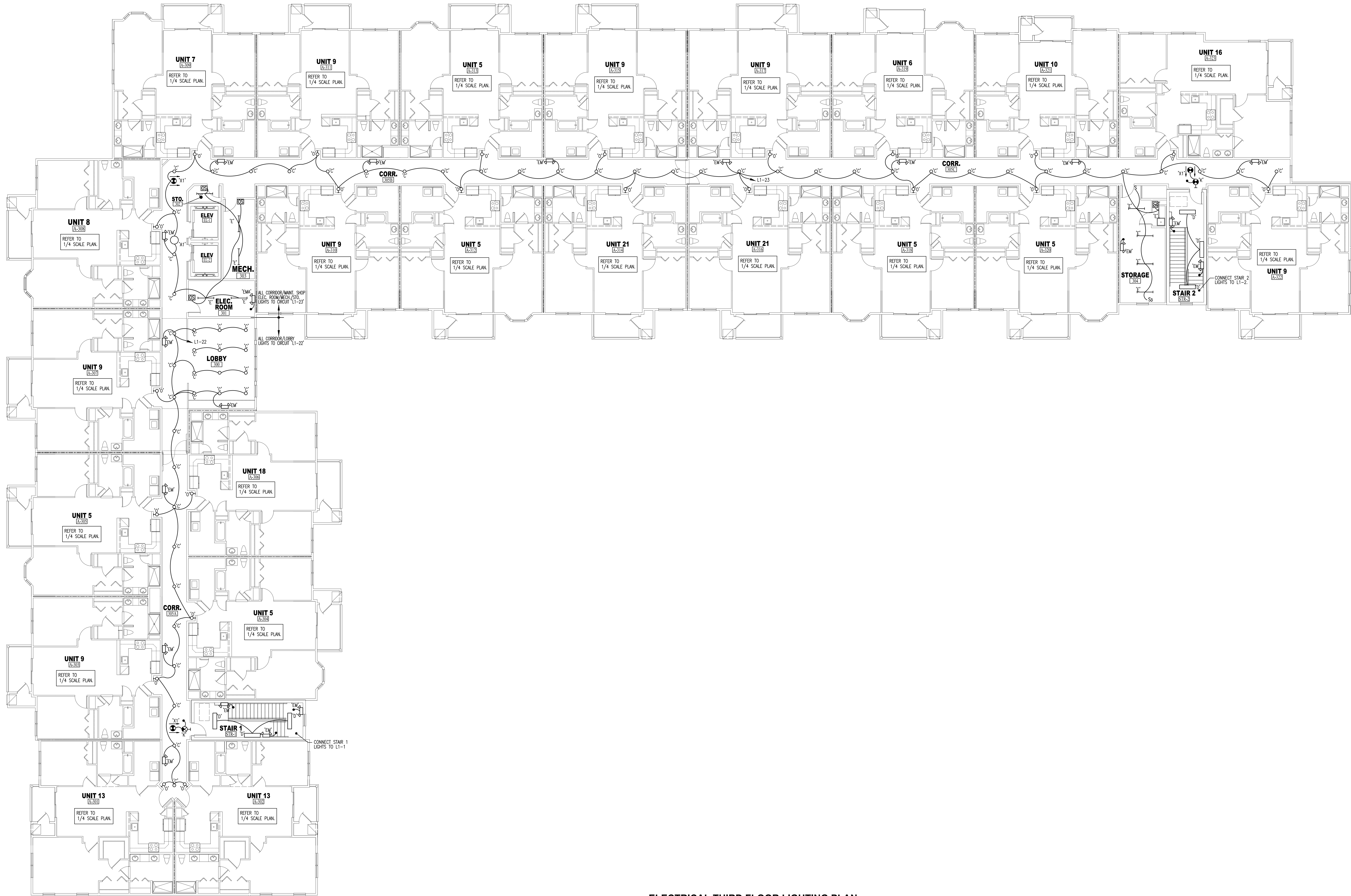
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APPROVED		

05/20/2024

NJ PE LICENSE #: 18513

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

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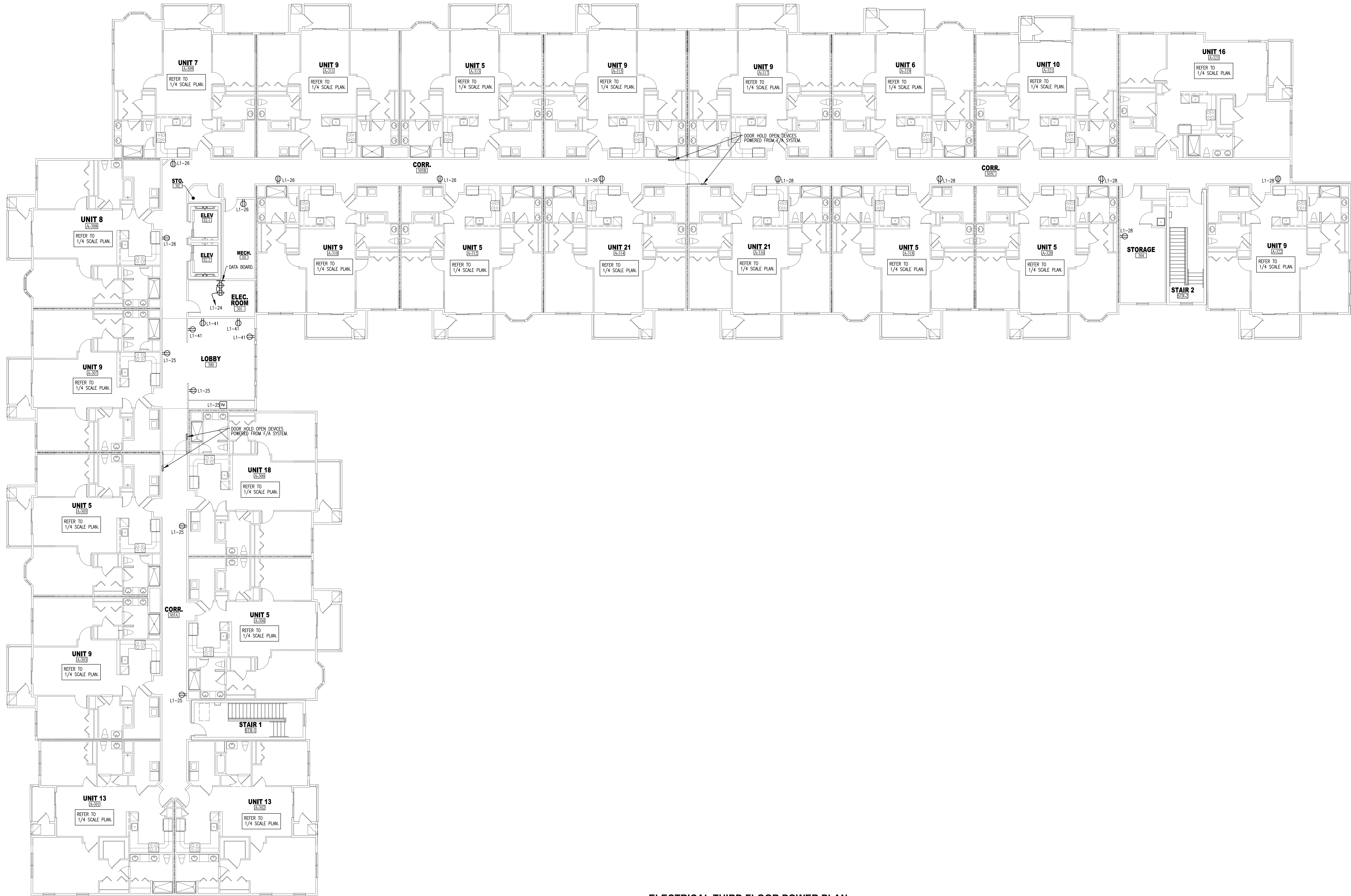
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SHEET TITLE
**ELECTRICAL
 THIRD FLOOR
 LIGHTING PLAN**

DATE: 01/23/24 SHEET NO.
 PROJ. NO. 20045 **E-6.00**
 SCALE: AS NOTED

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ELECTRICAL THIRD FLOOR POWER PLAN

SCALE: 1/8" = 1'-0"

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	ND 12504	07/23/24
	NJ AJ 12527	07/23/24
	NY 03698-1	07/23/24
	PA 8864	07/23/24
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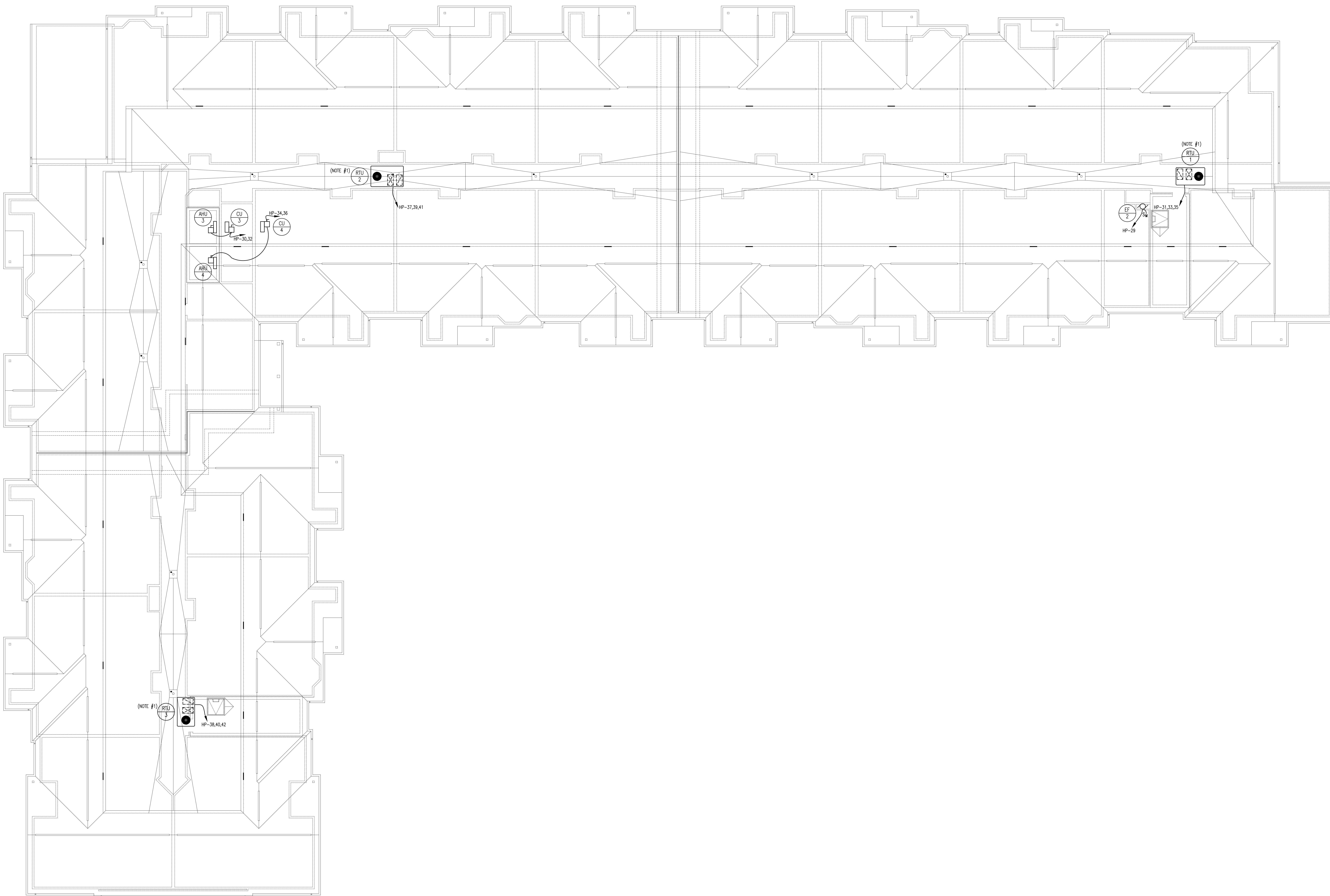
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APPROVED		
SCALE:	AS NOTED	

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ELECTRICAL ROOF FLOOR PLAN

SCALE: 1/8" = 1'-0"

NOTES: 1. RTU-1/RTU-2/RTU-3 FURNISHED WITH UNIT MOUNTED DISCONNECT, & UNIT POWERED GFI RECEPTACLE.

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	ET	001-017319
	ND	12504
	NU	AJ 12527
	NT	035596-1
	NC	8984
	PA	BA-012068-X
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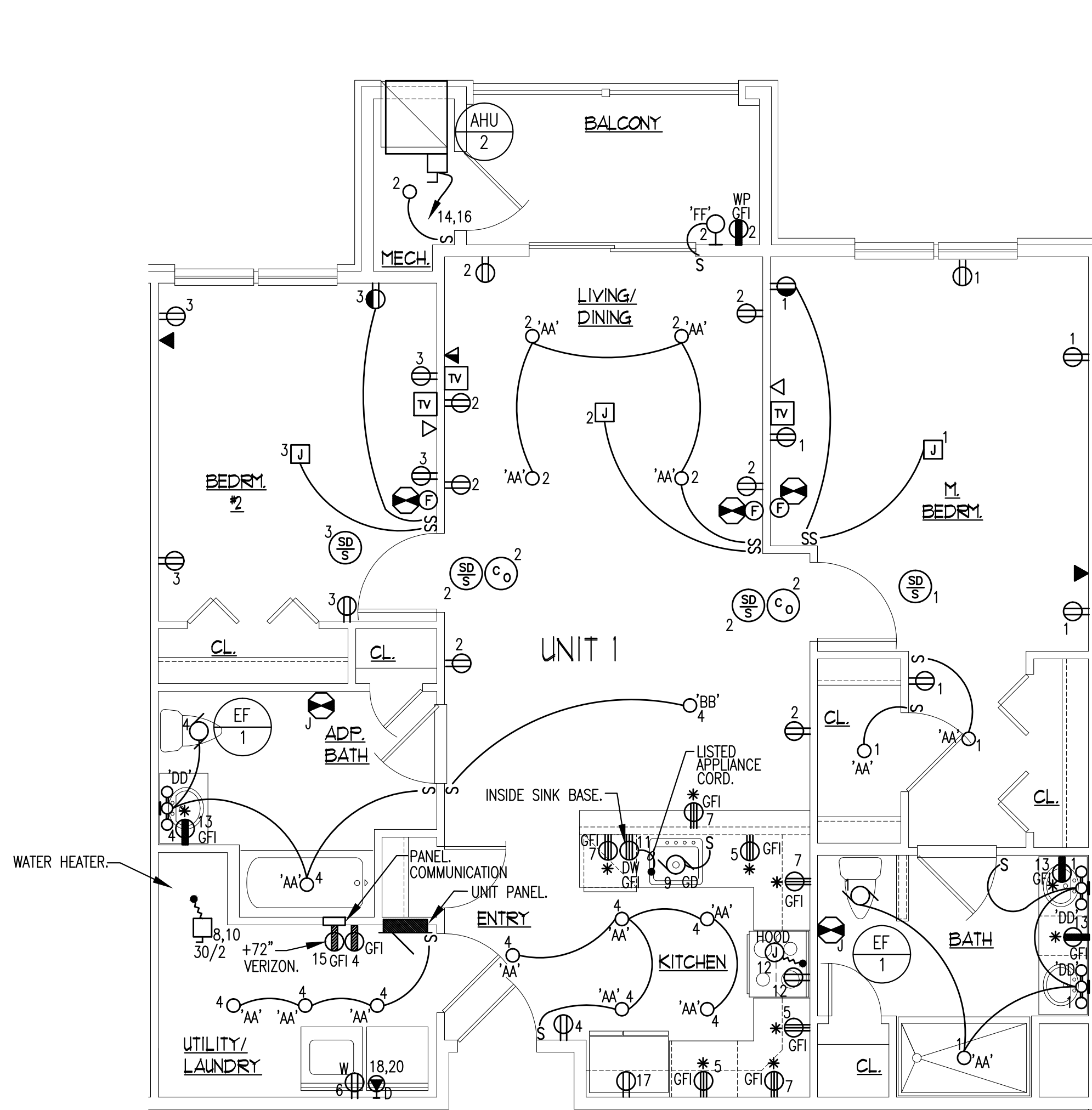
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DATE	07/23/24	SHEET NO.
PROJ. NO.	20045	E-8.00
SCALE	AS NOTED	

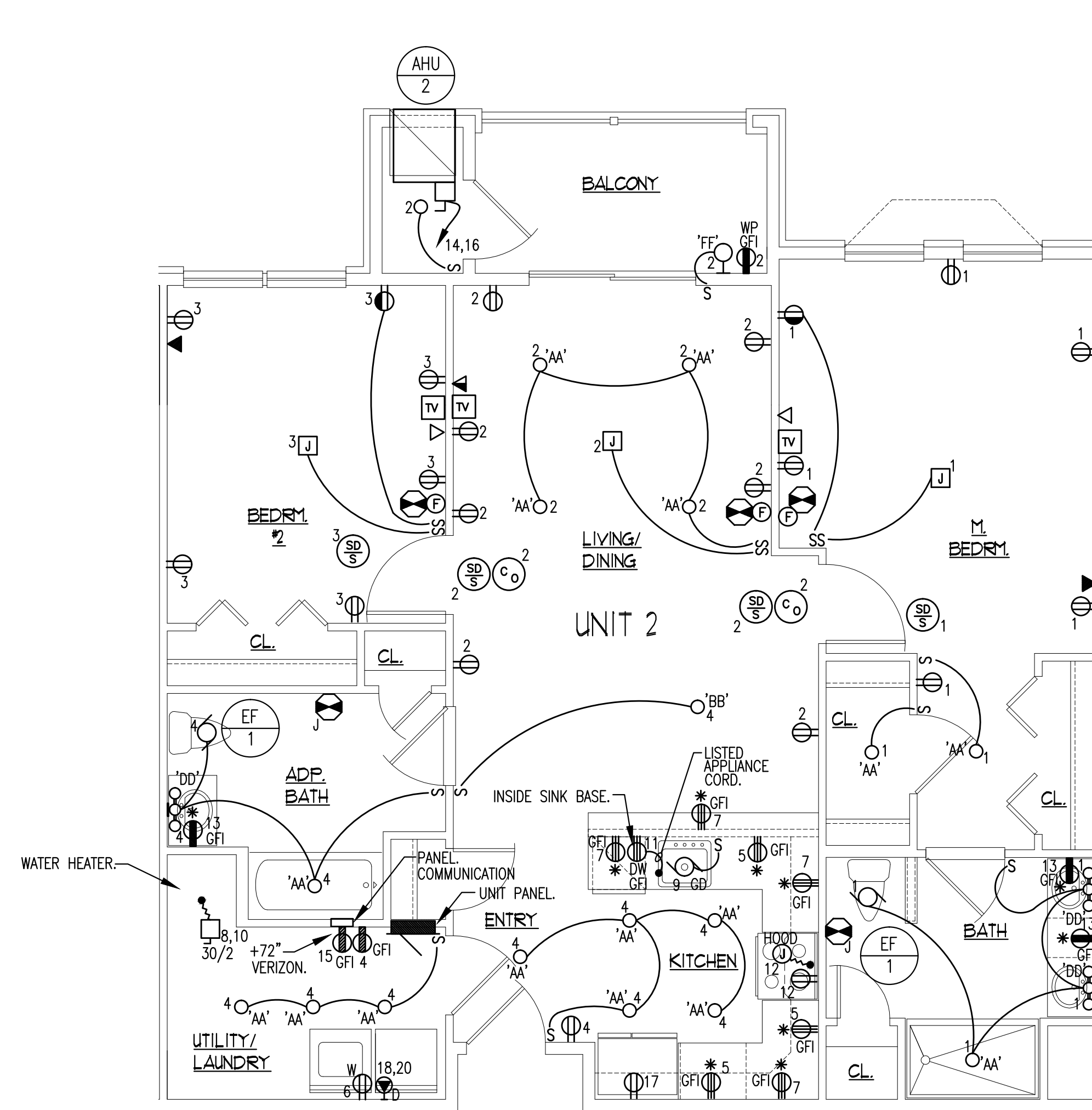
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UNIT TYPE 1 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

PANEL UNIT 1		120 / 208 VOLTS	
LOCATION	RECESSED	1	3
		10,000 MIN. A.I.C.	
125/2 MAIN C/B			
WIRE	DIRECTORY	BKR	CKT
#14	GENERAL LIGHTING	15/11	1
#14	GENERAL LIGHTING	15/11	2
#12	APPLIANCE CIRCUIT	20/11	5
#12	APPLIANCE CIRCUIT	20/11	7
#12	GARBAGE DISPOSAL (FUTURE)	20/11	9
#12	DISHWASHER	20/11	11
#12	BATHROOM RECEPTACLES	20/11	13
#12	VERZON	20/11	15
#12	REFRIGERATOR	20/11	17
#12	SPARE	20/11	19
WIRE	DIRECTORY	BKR	CKT
#14	GENERAL LIGHTING	15/11	3
#14	GENERAL LIGHTING	15/11	4
#12	WASHER	8	30
#10	WATER HEATER	8	30
#12	RANGE & HOOD	12	20/1
#12	AHU-2	14	20
#10	DRYER	18	30

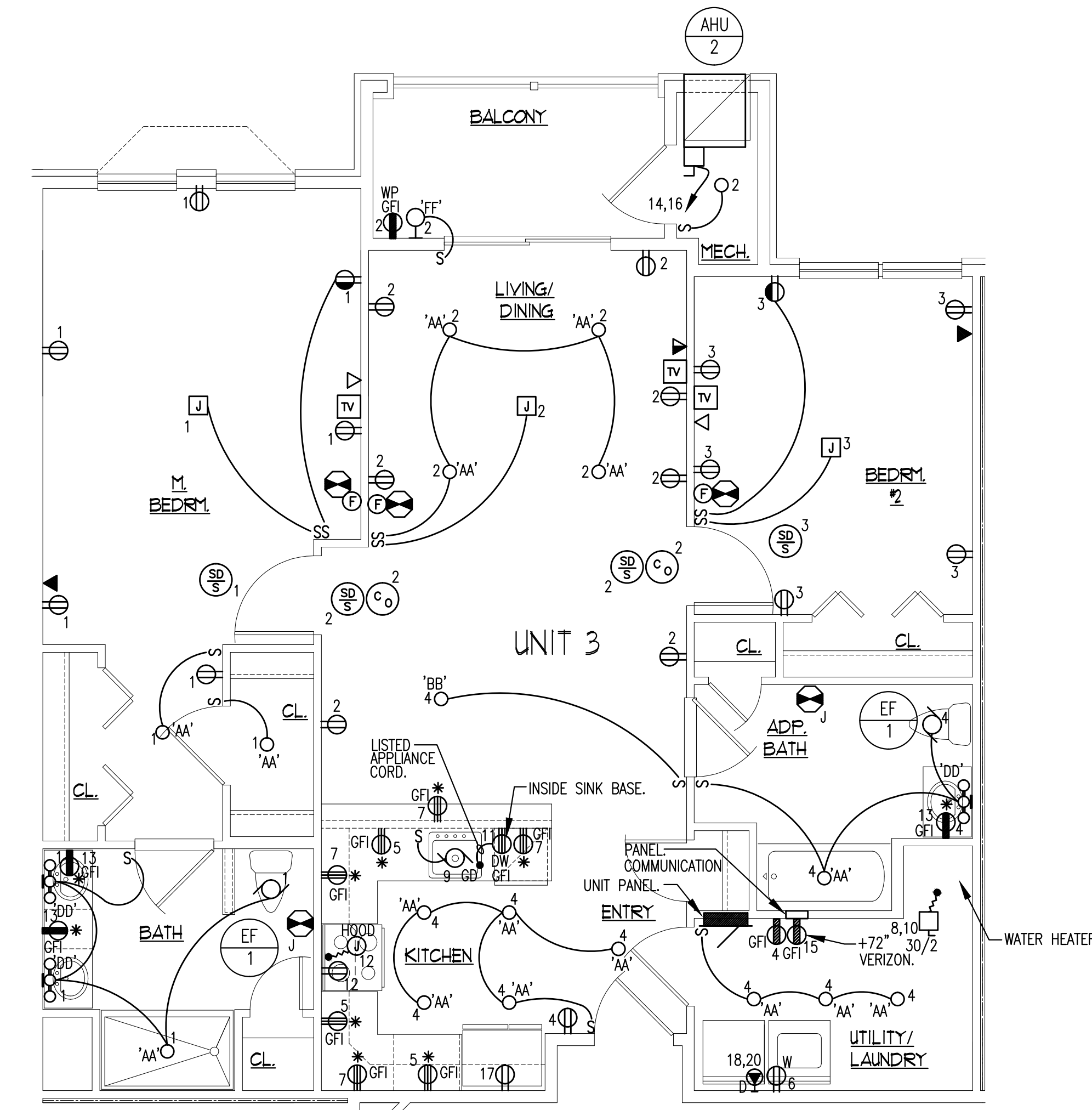
▲ PROVIDE COMBINATION AFCI/GFCI CIRCUIT BREAKER. ① HACR CIRCUIT BREAKER REQUIRED PER NEC.
 PROVIDE ARC FAULT CIRCUIT BREAKERS
 ALL CIRCUITS PER
 NEC ARTICLE 210.12 (A)



UNIT TYPE 2 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

PANEL UNIT 2		120 / 208 VOLTS	
LOCATION	RECESSED	1	3
		10,000 MIN. A.I.C.	
125/2 MAIN C/B			
WIRE	DIRECTORY	BKR	CKT
#14	GENERAL LIGHTING	15/11	1
#14	GENERAL LIGHTING	15/11	3
#12	APPLIANCE CIRCUIT	20/11	5
#12	APPLIANCE CIRCUIT	20/11	7
#12	GARBAGE DISPOSAL (FUTURE)	20/11	9
#12	DISHWASHER	20/11	11
#12	BATHROOM RECEPTACLES	20/11	13
#12	VERZON	20/11	15
#12	REFRIGERATOR	20/11	17
#12	SPARE	20/11	19
WIRE	DIRECTORY	BKR	CKT
#14	GENERAL LIGHTING	15/11	1
#14	GENERAL LIGHTING	15/11	3
#12	WASHER	8	30
#10	WATER HEATER	8	30
#12	RANGE & HOOD	12	20/1
#12	AHU-2	14	20
#10	DRYER	18	30

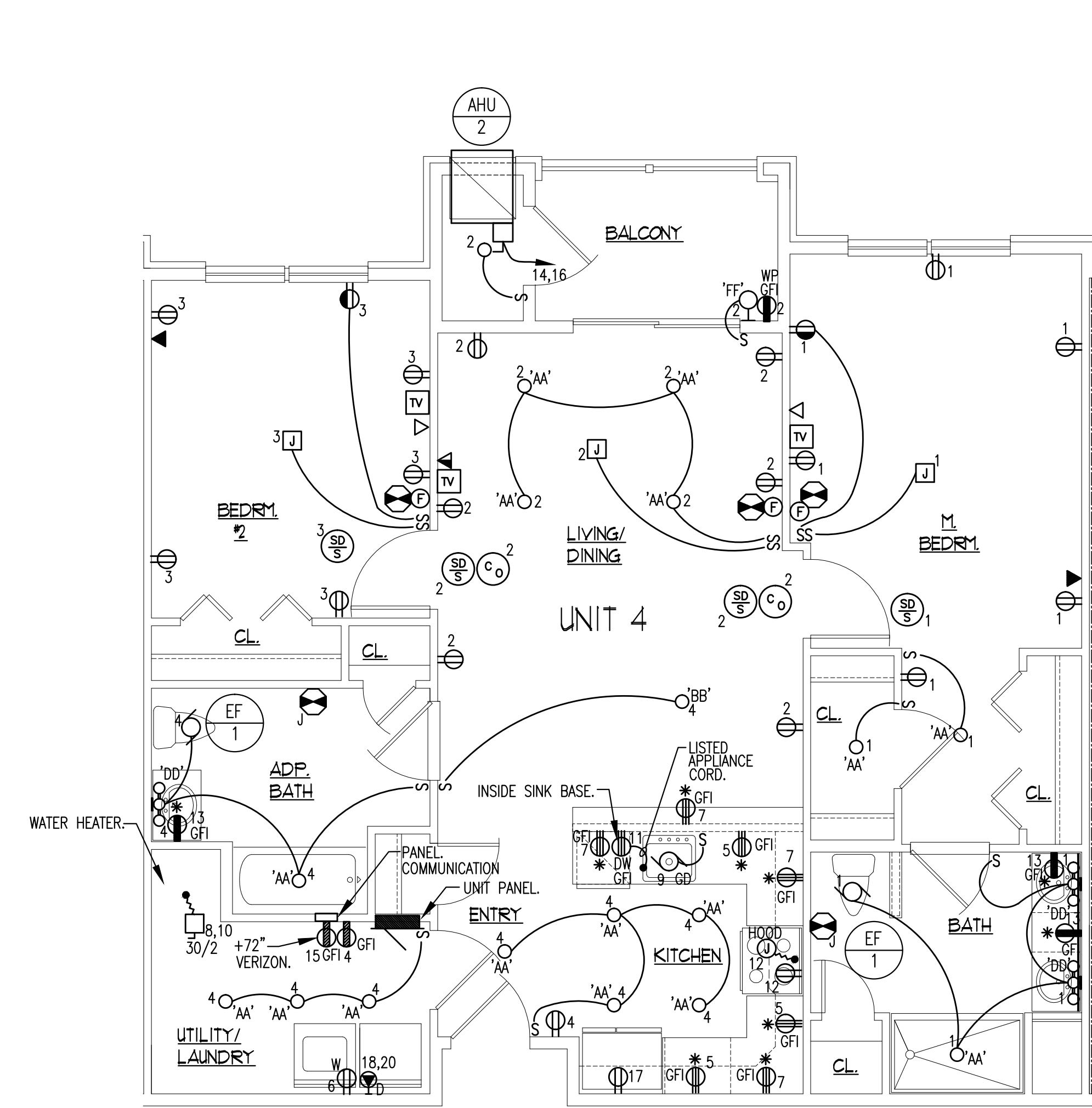
▲ PROVIDE COMBINATION AFCI/GFCI CIRCUIT BREAKER. ① HACR CIRCUIT BREAKER REQUIRED PER NEC.
 PROVIDE ARC FAULT CIRCUIT BREAKERS
 ALL CIRCUITS PER
 NEC ARTICLE 210.12 (A)



UNIT TYPE 3 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

PANEL UNIT 3		120 / 208 VOLTS	
LOCATION	RECESSED	1	3
		10,000 MIN. A.I.C.	
125/2 MAIN C/B			
WIRE	DIRECTORY	BKR	CKT
#14	GENERAL LIGHTING	15/11	1
#14	GENERAL LIGHTING	15/11	3
#12	APPLIANCE CIRCUIT	20/11	5
#12	APPLIANCE CIRCUIT	20/11	7
#12	GARBAGE DISPOSAL (FUTURE)	20/11	9
#12	DISHWASHER	20/11	11
#12	BATHROOM RECEPTACLES	20/11	13
#12	VERZON	20/11	15
#12	REFRIGERATOR	20/11	17
#12	SPARE	20/11	19
WIRE	DIRECTORY	BKR	CKT
#14	GENERAL LIGHTING	15/11	1
#14	GENERAL LIGHTING	15/11	3
#12	WASHER	8	30
#10	WATER HEATER	8	30
#12	RANGE & HOOD	12	20/1
#12	AHU-2	14	20
#10	DRYER	18	30

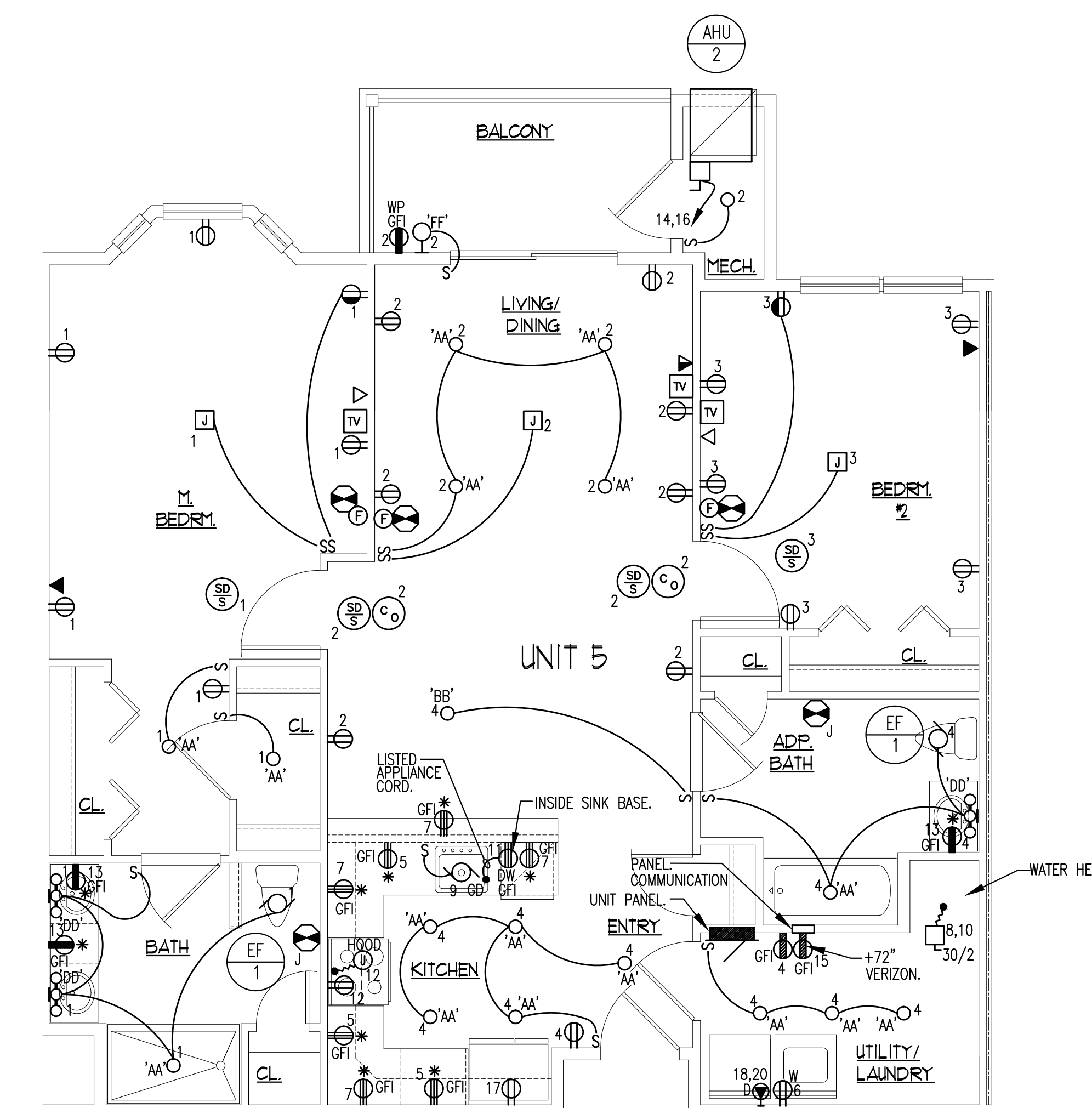
▲ PROVIDE COMBINATION AFCI/GFCI CIRCUIT BREAKER. ① HACR CIRCUIT BREAKER REQUIRED PER NEC.
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 ALL CIRCUITS PER
 NEC ARTICLE 210.12 (A)



UNIT TYPE 4 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

PANEL UNIT 4		120 / 208 VOLTS	
LOCATION	RECESSED	1	3
		10,000 MIN. A.I.C.	
125/2 MAIN C/B			
WIRE	DIRECTORY	BKR	CKT
#14	GENERAL LIGHTING	15/11	1
#14	GENERAL LIGHTING	15/11	3
#12	APPLIANCE CIRCUIT	20/11	5
#12	APPLIANCE CIRCUIT	20/11	7
#12	GARBAGE DISPOSAL (FUTURE)	20/11	9
#12	DISHWASHER	20/11	11
#12	BATHROOM RECEPTACLES	20/11	13
#12	VERZON	20/11	15
#12	REFRIGERATOR	20/11	17
#12	SPARE	20/11	19
WIRE	DIRECTORY	BKR	CKT
#14	GENERAL LIGHTING	15/11	1
#14	GENERAL LIGHTING	15/11	3
#12	WASHER	8	30
#10	WATER HEATER	8	30
#12	RANGE & HOOD	12	20/1
#12	AHU-2	14	20
#10	DRYER	18	30

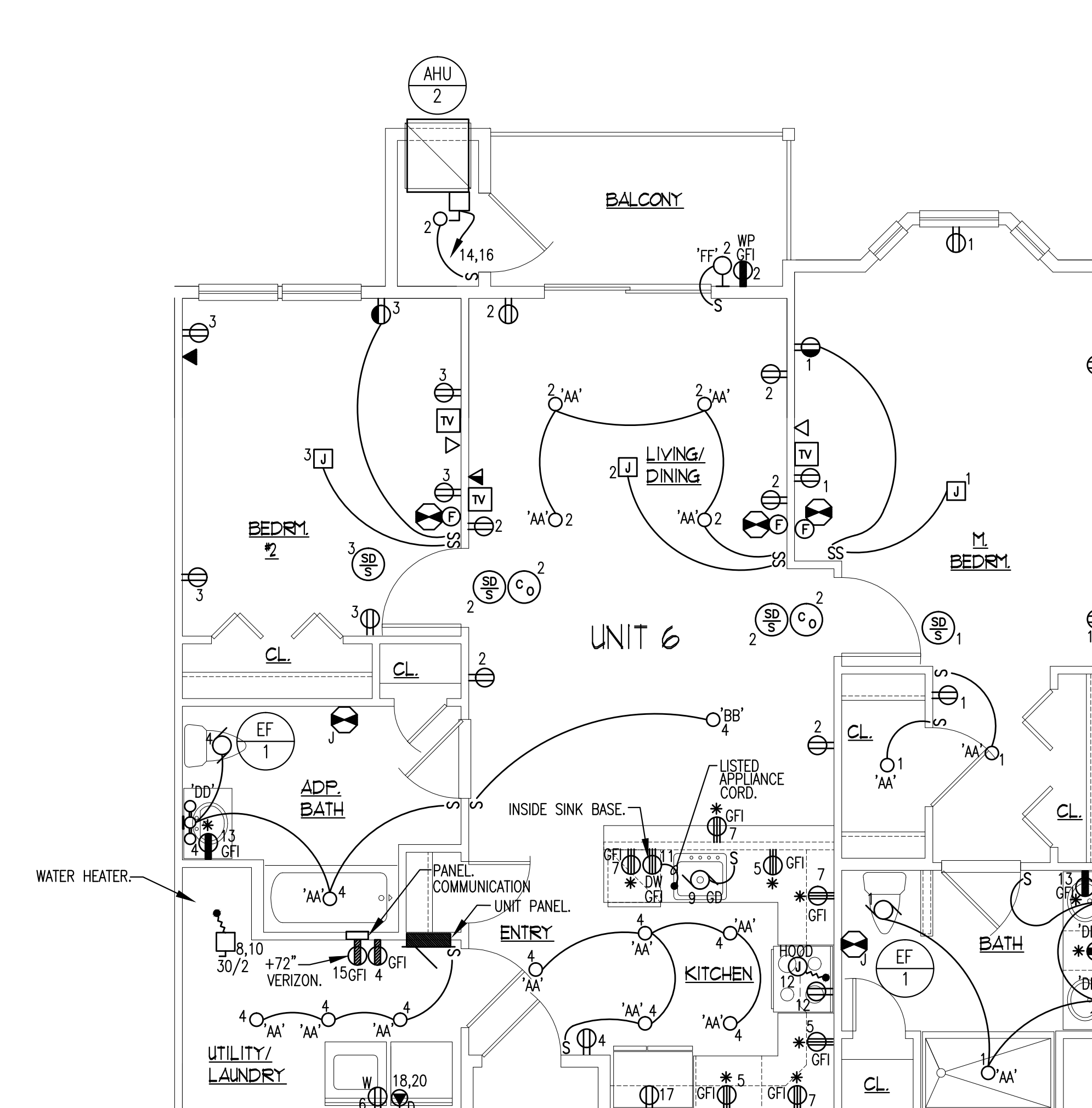
▲ PROVIDE COMBINATION AFCI/GFCI CIRCUIT BREAKER. ① HACR CIRCUIT BREAKER REQUIRED PER NEC.
 PROVIDE ARC FAULT CIRCUIT BREAKERS
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 NEC ARTICLE 210.12 (A)



UNIT TYPE 5 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

PANEL UNIT 5		120 / 208 VOLTS	
LOCATION	RECESSED	1	3
		10,000 MIN. A.I.C.	
125/2 MAIN C/B			
WIRE	DIRECTORY	BKR	CKT
#14	GENERAL LIGHTING	15/11	1
#14	GENERAL LIGHTING	15/11	3
#12	APPLIANCE CIRCUIT	20/11	5
#12	APPLIANCE CIRCUIT	20/11	7
#12	GARBAGE DISPOSAL (FUTURE)	20/11	9
#12	DISHWASHER	20/11	11
#12	BATHROOM RECEPTACLES	20/11	13
#12	VERZON	20/11	15
#12	REFRIGERATOR	20/11	17
#12	SPARE	20/11	19
WIRE	DIRECTORY	BKR	CKT
#14	GENERAL LIGHTING	15/11	1
#14	GENERAL LIGHTING	15/11	3
#12	WASHER	8	30
#10	WATER HEATER	8	30
#12	RANGE & HOOD	12	20/1
#12	AHU-2	14	20
#10	DRYER	18	30

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 NEC ARTICLE 210.12 (A)



UNIT TYPE 6 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

PANEL UNIT 6		120 / 208 VOLTS	
LOCATION	RECESSED	1	3
		10,000 MIN. A.I.C.	
125/2 MAIN C/B			
WIRE	DIRECTORY	BKR	CKT
#14	GENERAL LIGHTING	15/11	1
#14	GENERAL LIGHTING	15/11	3
#12	APPLIANCE CIRCUIT	20/11	5
#12	APPLIANCE CIRCUIT	20/11	7
#12	GARBAGE DISPOSAL (FUTURE)	20/11	9
#12	DISHWASHER	20/11	11
#12	BATHROOM RECEPTACLES	20/11	13
#12	VERZON	20/11	15
#12	REFRIGERATOR	20/11	17
#12	SPARE	20/11	19
WIRE	DIRECTORY	BKR	CKT
#14	GENERAL LIGHTING	15/11	1
#14	GENERAL LIGHTING	15/11	3
#12	WASHER	8	30
#10	WATER HEATER	8	30
#12	RANGE & HOOD	12	20/1
#12	AHU-2	14	20
#10	DRYER	18	30

▲ PROVIDE COMBINATION AFCI/GFCI CIRCUIT BREAKER. ① HACR CIRCUIT BREAKER REQUIRED PER NEC.
 PROVIDE ARC FAULT CIRCUIT BREAKERS
 ALL CIRCUITS PER
 NEC ARTICLE 210.12 (A)

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TWIN PONDS
 BUILDING 'C'
 BLOCK 2173, LOT 21.01
 HAMILTON TOWNSHIP, NEW JERSEY
 For:
 THE KAMSON CORPORATION

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DESIGNED	WILLIAM A. FEINBERG
DATE	02/23/24
SCALE	AS NOTED
PROJECT	ELECTRICAL UNIT PLANS

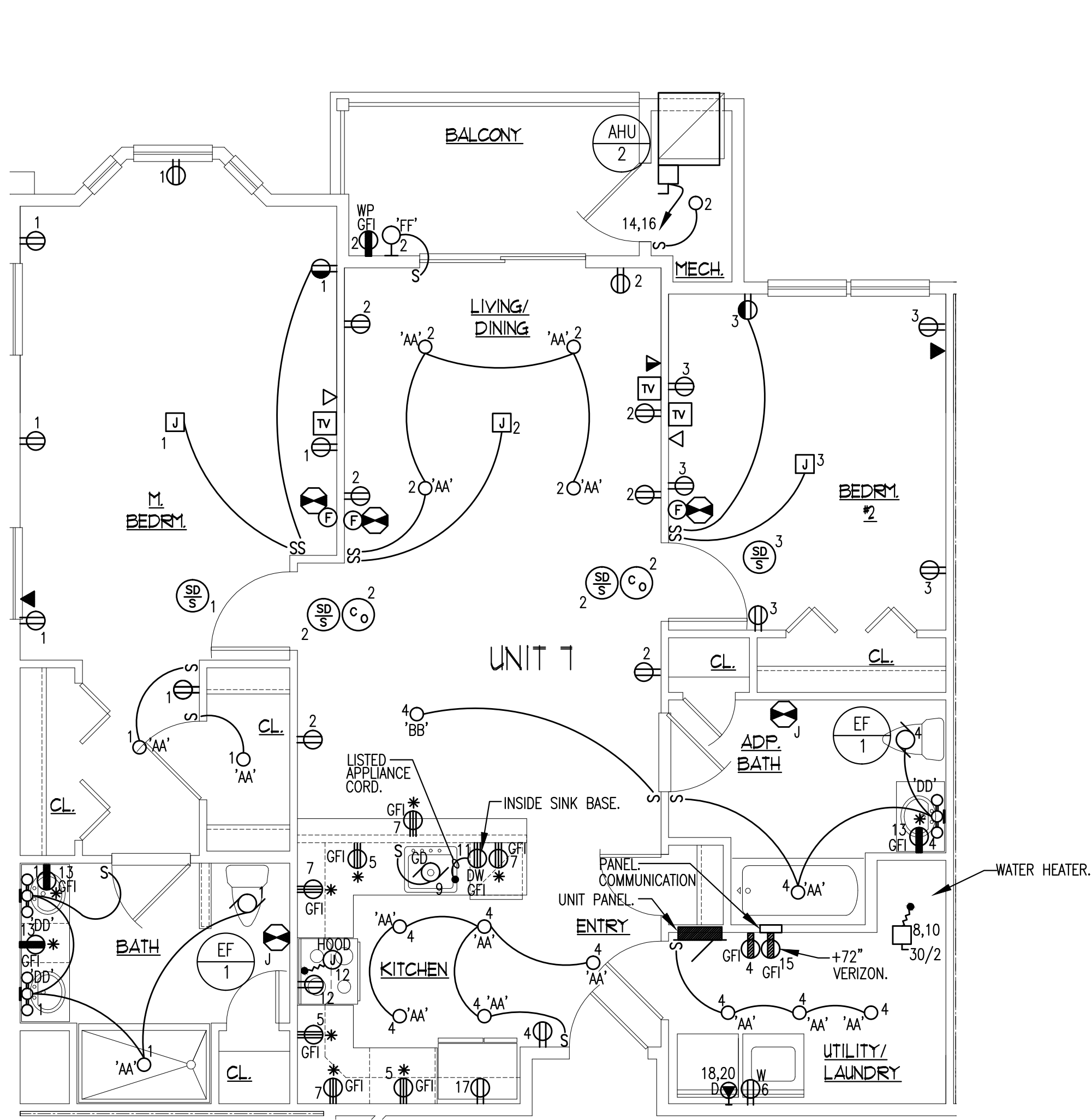
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05/20/2024

DATE: 02/23/24 SHEET NO. 05
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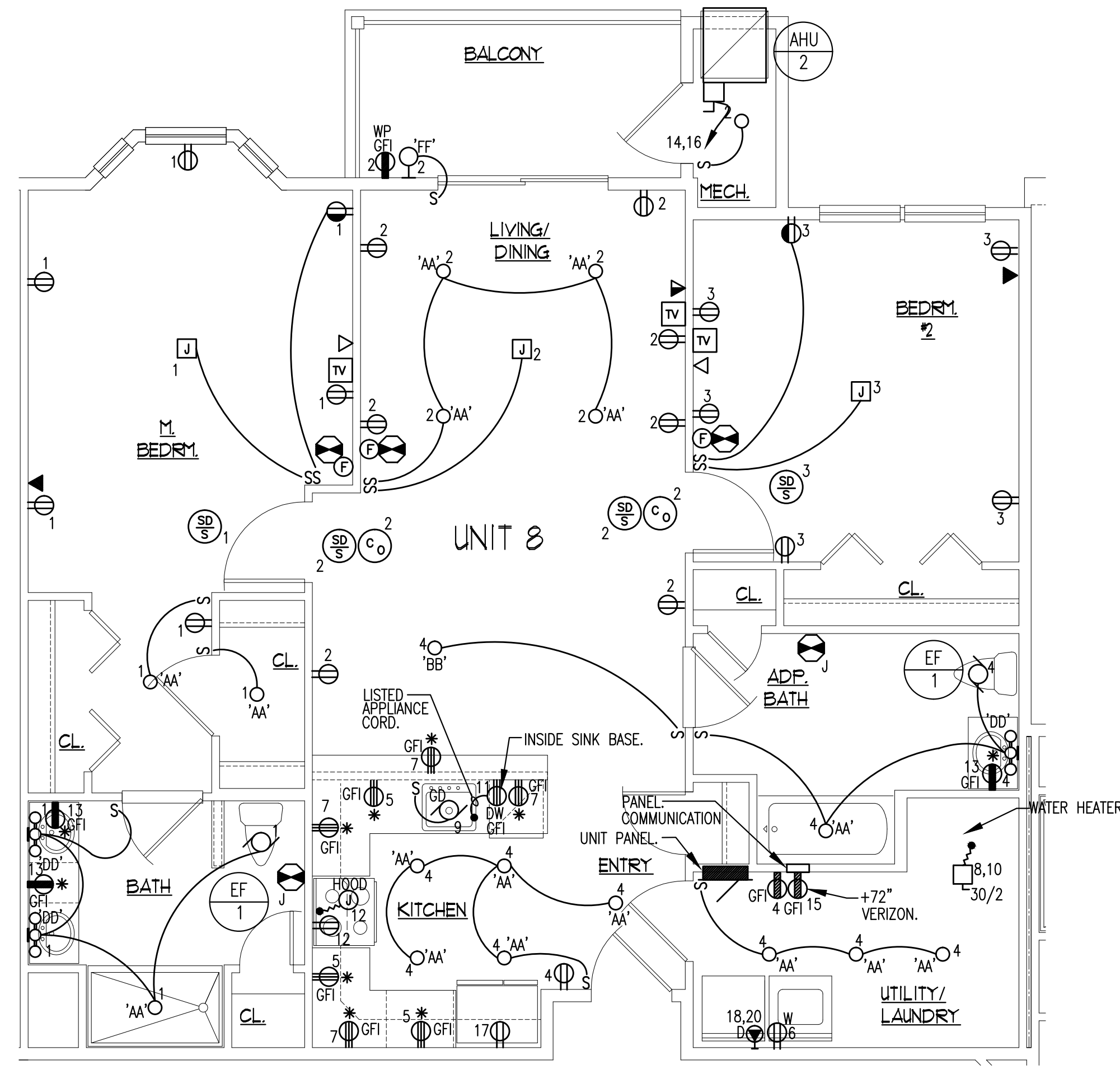
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UNIT TYPE 7 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

PANEL LOCATION MOUNTING	UNIT 7	120 / 208 VOLTS						
	T / S	1 / 3						
	RECESSED	10,000 MIN. A.I.C.						
125/2 MAIN C/B								
WIRE	DIRECTORY	BKR	CKT	AB	CKT	BKR	DIRECTORY	WIRE
#14	GENERAL LIGHTING	15/1	1	2	15/1		GENERAL LIGHTING	#14
#14	GENERAL LIGHTING	15/1	3	4	15/1		GENERAL LIGHTING	#14
#12	APPLIANCE CIRCUIT	20/1	5	6	20/1	▲	WASHER	#12
#12	APPLIANCE CIRCUIT	20/1	7	8	30/2		WATER HEATER	#10
#12	GARBAGE DISPOSAL (FUTURE)	20/1	9	10	2			
#12	DISHWASHER	▲	20/1	11	▲	12	RANGE & HOOD	#12
#12	BATHROOM RECEPTACLES	20/1	13	▲	14	20/1	AHU-2	①
#12	VERZON	20/1	15	▲	16	2		
#12	REFRIGERATOR	▲	20/1	17	▲	18	30/2	DRYER
#12	SPARE	▲	20/1	19	▲	20	2	

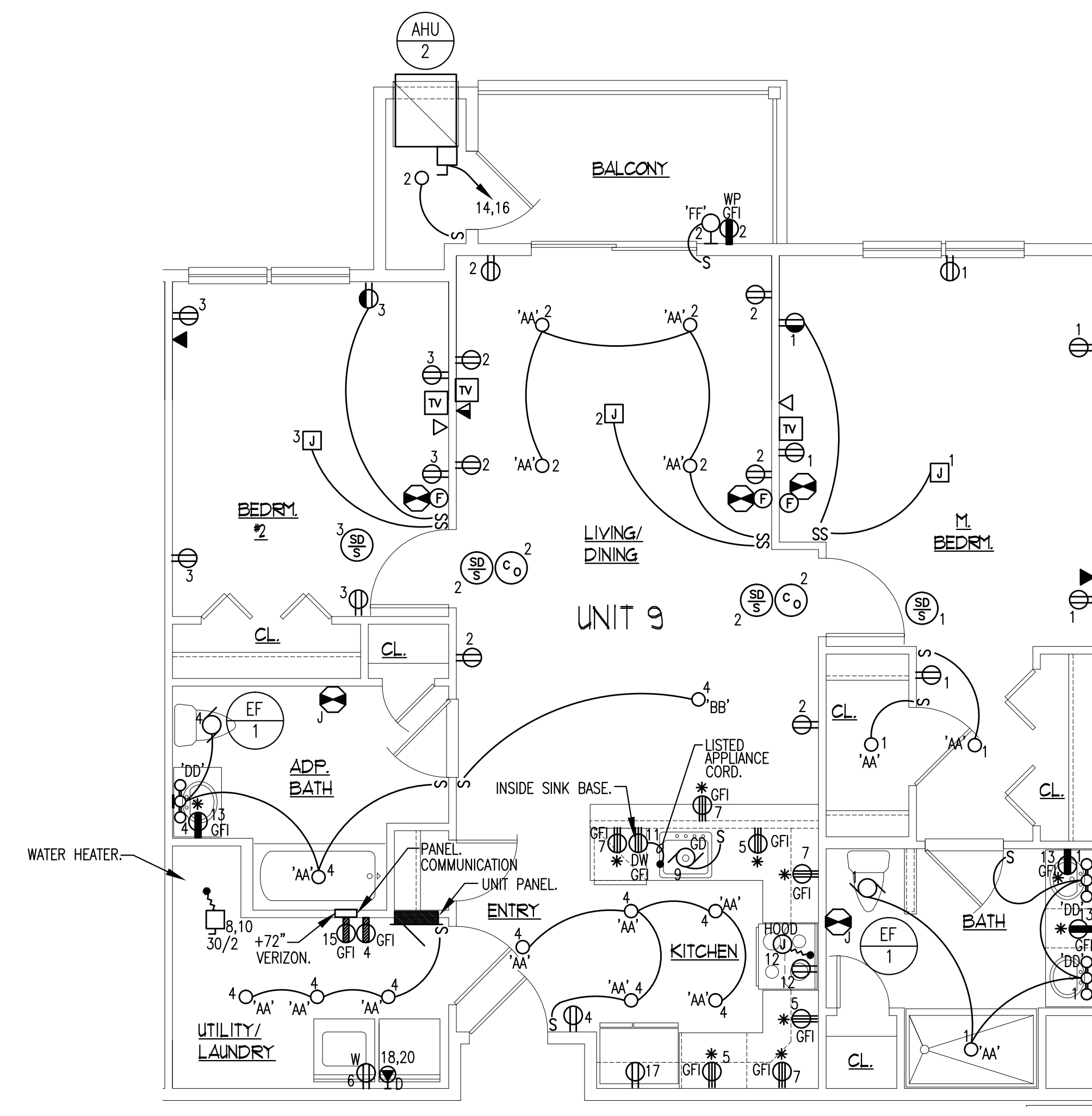
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PROVIDE ARC FAULT CIRCUIT BREAKERS ALL CIRCUITS PER NEC. ARTICLE 210.12 (A)



UNIT TYPE 8 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

PANEL LOCATION MOUNTING	UNIT 8	120 / 208 VOLTS						
	T / S	1 / 3						
	RECESSED	10,000 MIN. A.I.C.						
125/2 MAIN C/B								
WIRE	DIRECTORY	BKR	CKT	AB	CKT	BKR	DIRECTORY	WIRE
#14	GENERAL LIGHTING	15/1	1	2	15/1		GENERAL LIGHTING	#14
#14	GENERAL LIGHTING	15/1	3	4	15/1		GENERAL LIGHTING	#14
#12	APPLIANCE CIRCUIT	20/1	5	6	20/1	▲	WASHER	#12
#12	APPLIANCE CIRCUIT	20/1	7	8	30/2		WATER HEATER	#10
#12	GARBAGE DISPOSAL (FUTURE)	20/1	9	10	2			
#12	DISHWASHER	▲	20/1	11	▲	12	RANGE & HOOD	#12
#12	BATHROOM RECEPTACLES	20/1	13	▲	14	20/1	AHU-2	①
#12	VERZON	20/1	15	▲	16	2		
#12	REFRIGERATOR	▲	20/1	17	▲	18	30/2	DRYER
#12	SPARE	▲	20/1	19	▲	20	2	

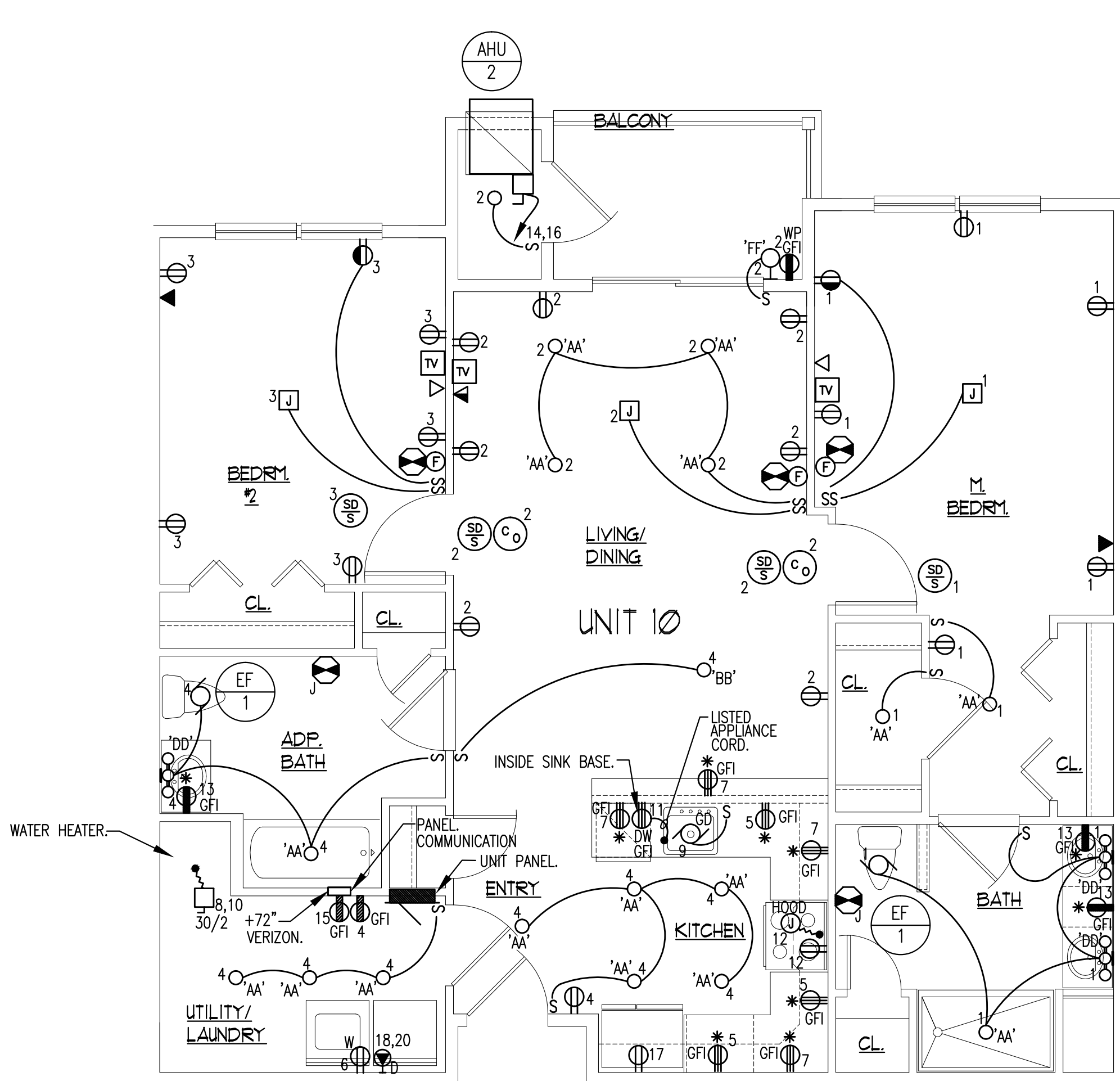
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UNIT TYPE 9 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

PANEL LOCATION MOUNTING	UNIT 9	120 / 208 VOLTS						
	T / S	1 / 3						
	RECESSED	10,000 MIN. A.I.C.						
125/2 MAIN C/B								
WIRE	DIRECTORY	BKR	CKT	AB	CKT	BKR	DIRECTORY	WIRE
#14	GENERAL LIGHTING	15/1	1	2	15/1		GENERAL LIGHTING	#14
#14	GENERAL LIGHTING	15/1	3	4	15/1		GENERAL LIGHTING	#14
#12	APPLIANCE CIRCUIT	20/1	5	6	20/1	▲	WASHER	#12
#12	APPLIANCE CIRCUIT	20/1	7	8	30/2		WATER HEATER	#10
#12	GARBAGE DISPOSAL (FUTURE)	20/1	9	10	2			
#12	DISHWASHER	▲	20/1	11	▲	12	RANGE & HOOD	#12
#12	BATHROOM RECEPTACLES	20/1	13	▲	14	20/1	AHU-2	①
#12	VERZON	20/1	15	▲	16	2		
#12	REFRIGERATOR	▲	20/1	17	▲	18	30/2	DRYER
#12	SPARE	▲	20/1	19	▲	20	2	

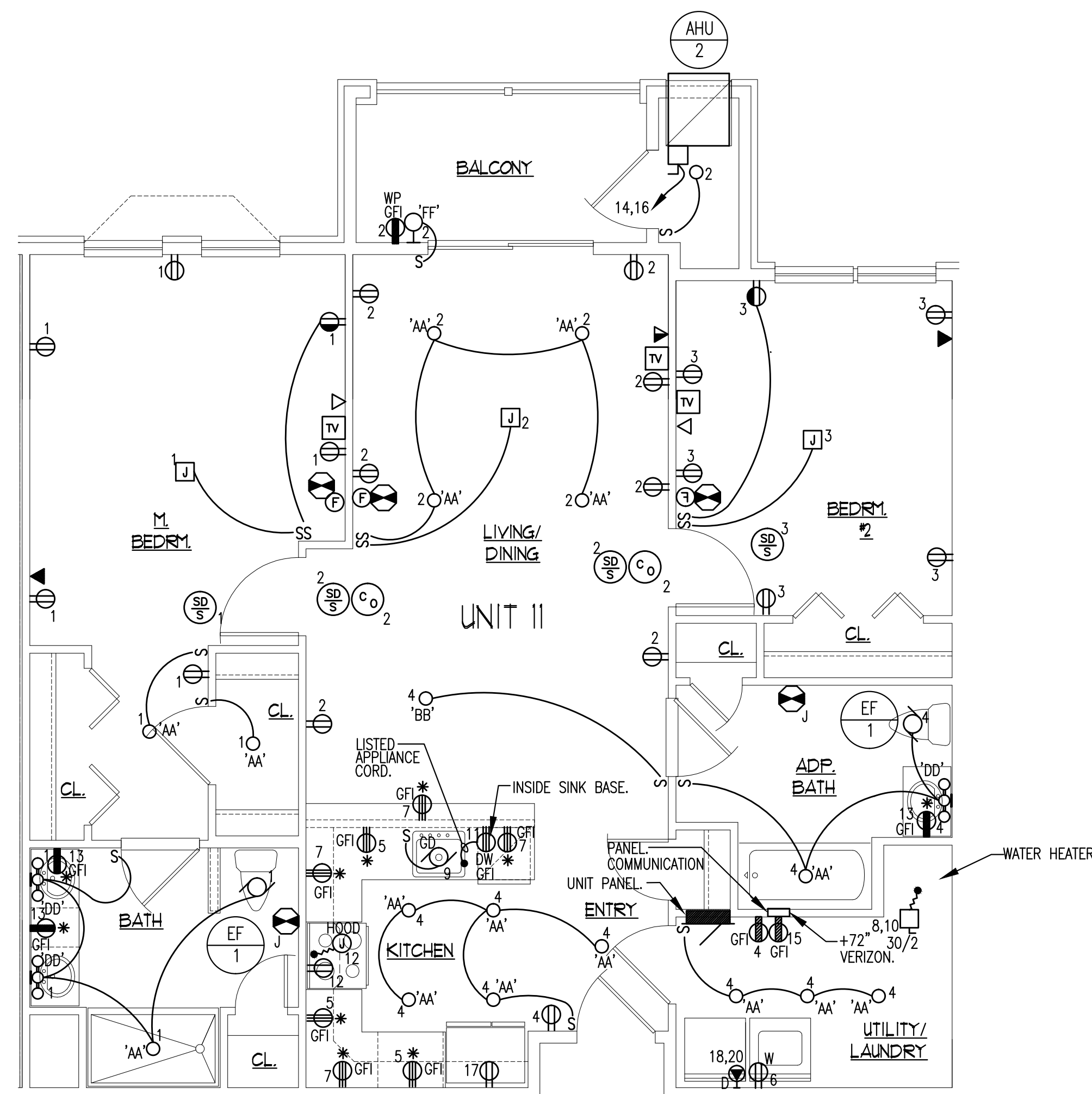
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UNIT TYPE 10 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

PANEL LOCATION MOUNTING	UNIT 10	120 / 208 VOLTS						
	T / S	1 / 3						
	RECESSED	10,000 MIN. A.I.C.						
125/2 MAIN C/B								
WIRE	DIRECTORY	BKR	CKT	AB	CKT	BKR	DIRECTORY	WIRE
#14	GENERAL LIGHTING	15/1	1	2	15/1		GENERAL LIGHTING	#14
#14	GENERAL LIGHTING	15/1	3	4	15/1		GENERAL LIGHTING	#14
#12	APPLIANCE CIRCUIT	20/1	5	6	20/1	▲	WASHER	#12
#12	APPLIANCE CIRCUIT	20/1	7	8	30/2		WATER HEATER	#10
#12	GARBAGE DISPOSAL (FUTURE)	20/1	9	10	2			
#12	DISHWASHER	▲	20/1	11	▲	12	RANGE & HOOD	#12
#12	BATHROOM RECEPTACLES	20/1	13	▲	14	20/1	AHU-2	①
#12	VERZON	20/1	15	▲	16	2		
#12	REFRIGERATOR	▲	20/1	17	▲	18	30/2	DRYER
#12	SPARE	▲	20/1	19	▲	20	2	

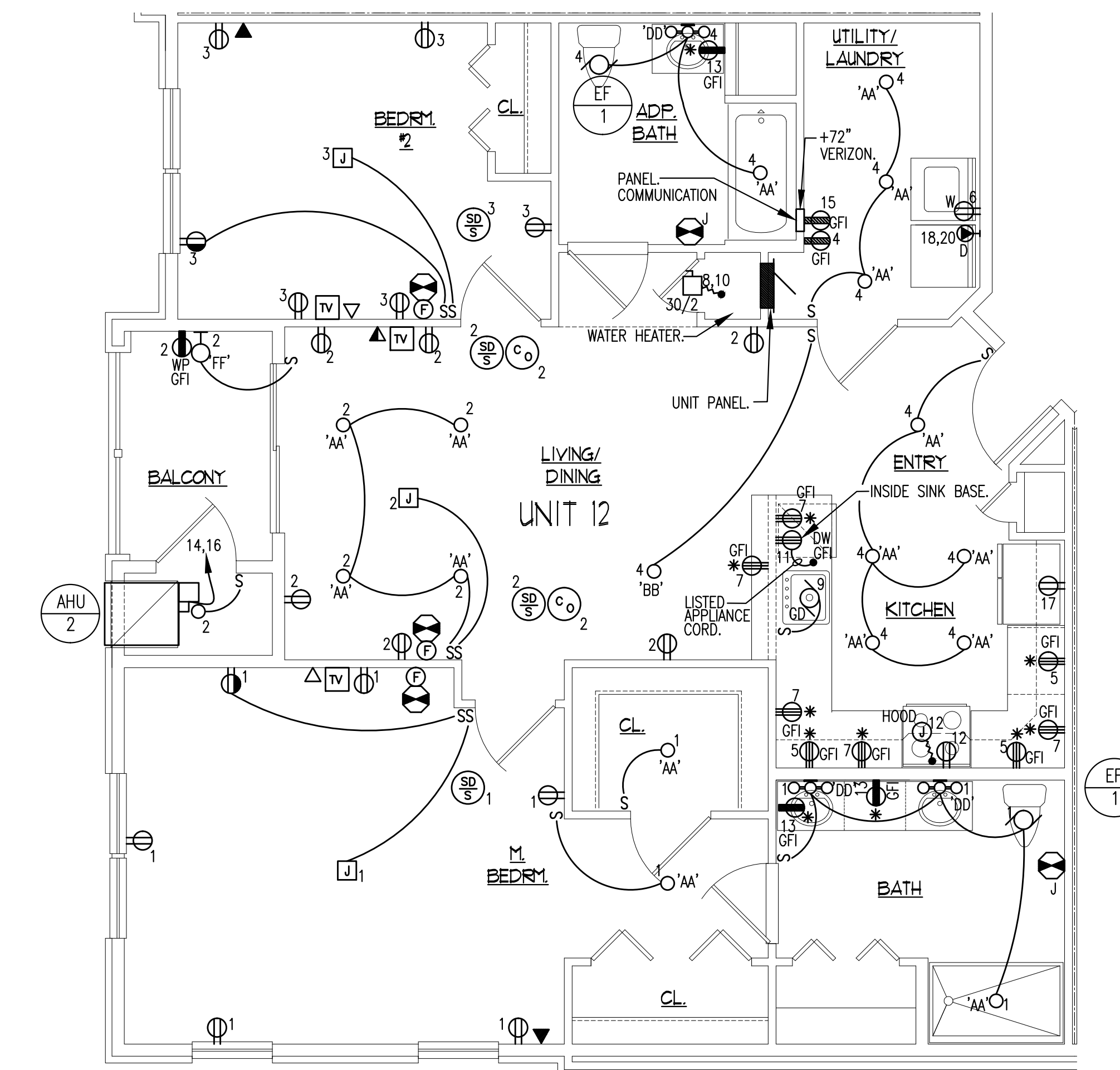
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PROVIDE ARC FAULT CIRCUIT BREAKERS ALL CIRCUITS PER NEC. ARTICLE 210.12 (A)



UNIT TYPE 11 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

PANEL LOCATION MOUNTING	UNIT 11	120 / 208 VOLTS						
	T / S	1 / 3						
	RECESSED	10,000 MIN. A.I.C.						
125/2 MAIN C/B								
WIRE	DIRECTORY	BKR	CKT	AB	CKT	BKR	DIRECTORY	WIRE
#14	GENERAL LIGHTING	15/1	1	2	15/1		GENERAL LIGHTING	#14
#14	GENERAL LIGHTING	15/1	3	4	15/1		GENERAL LIGHTING	#14
#12	APPLIANCE CIRCUIT	20/1	5	6	20/1	▲	WASHER	#12
#12	APPLIANCE CIRCUIT	20/1	7	8	30/2		WATER HEATER	#10
#12	GARBAGE DISPOSAL (FUTURE)	20/1	9	10	2			
#12	DISHWASHER	▲	20/1	11	▲	12	RANGE & HOOD	#12
#12	BATHROOM RECEPTACLES	20/1	13	▲	14	20/1	AHU-2	①
#12	VERZON	20/1	15	▲	16	2		
#12	REFRIGERATOR	▲	20/1	17	▲	18	30/2	DRYER
#12	SPARE	▲	20/1	19	▲	20	2	

▲ PROVIDE COMBINATION AFCI/GFCI CIRCUIT BREAKER. (1) HACR CIRCUIT BREAKER REQUIRED PER NEC.
PROVIDE ARC FAULT CIRCUIT BREAKERS ALL CIRCUITS PER NEC. ARTICLE 210.12 (A)



UNIT TYPE 12 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

PANEL LOCATION MOUNTING	UNIT 12	120 / 208 VOLTS						
	T / S	1 / 3						
	RECESSED	10,000 MIN. A.I.C.						
125/2 MAIN C/B								
WIRE	DIRECTORY	BKR	CKT	AB	CKT	BKR	DIRECTORY	WIRE
#14	GENERAL LIGHTING	15/1	1	2	15/1		GENERAL LIGHTING	#14
#14	GENERAL LIGHTING	15/1	3	4	15/1		GENERAL LIGHTING	#14
#12	APPLIANCE CIRCUIT	20/1	5	6	20/1	▲	WASHER	#12
#12	APPLIANCE CIRCUIT	20/1	7	8	30/2		WATER HEATER	#10
#12	GARBAGE DISPOSAL (FUTURE)	20/1	9	10	2			
#12	DISHWASHER	▲	20/1	11	▲	12	RANGE & HOOD	#12
#12	BATHROOM RECEPTACLES	20/1	13	▲	14	20/1	AHU-2	①
#12	VERZON	20/1	15	▲	16	2		
#12	REFRIGERATOR	▲	20/1	17	▲	18	30/2	DRYER
#12	SPARE	▲	20/1	19	▲	20	2	

▲ PROVIDE COMBINATION AFCI/GFCI CIRCUIT BREAKER. (1) HACR CIRCUIT BREAKER REQUIRED PER NEC.
PROVIDE ARC FAULT CIRCUIT BREAKERS ALL CIRCUITS PER NEC. ARTICLE 210.12 (A)

NO.	DATE	DESCRIPTION

TWIN PONDS
BUILDING 'C'
BLOCK 2173, LOT 21.L01
HAMILTON TOWNSHIP, NEW JERSEY
FOR:
THE KAMSON CORPORATION

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	NY	06896-1
	NC	8884
	PA	BA-012068-X
	SC	6747
	MA	0401 012300
	VT	141822
	RI	4658

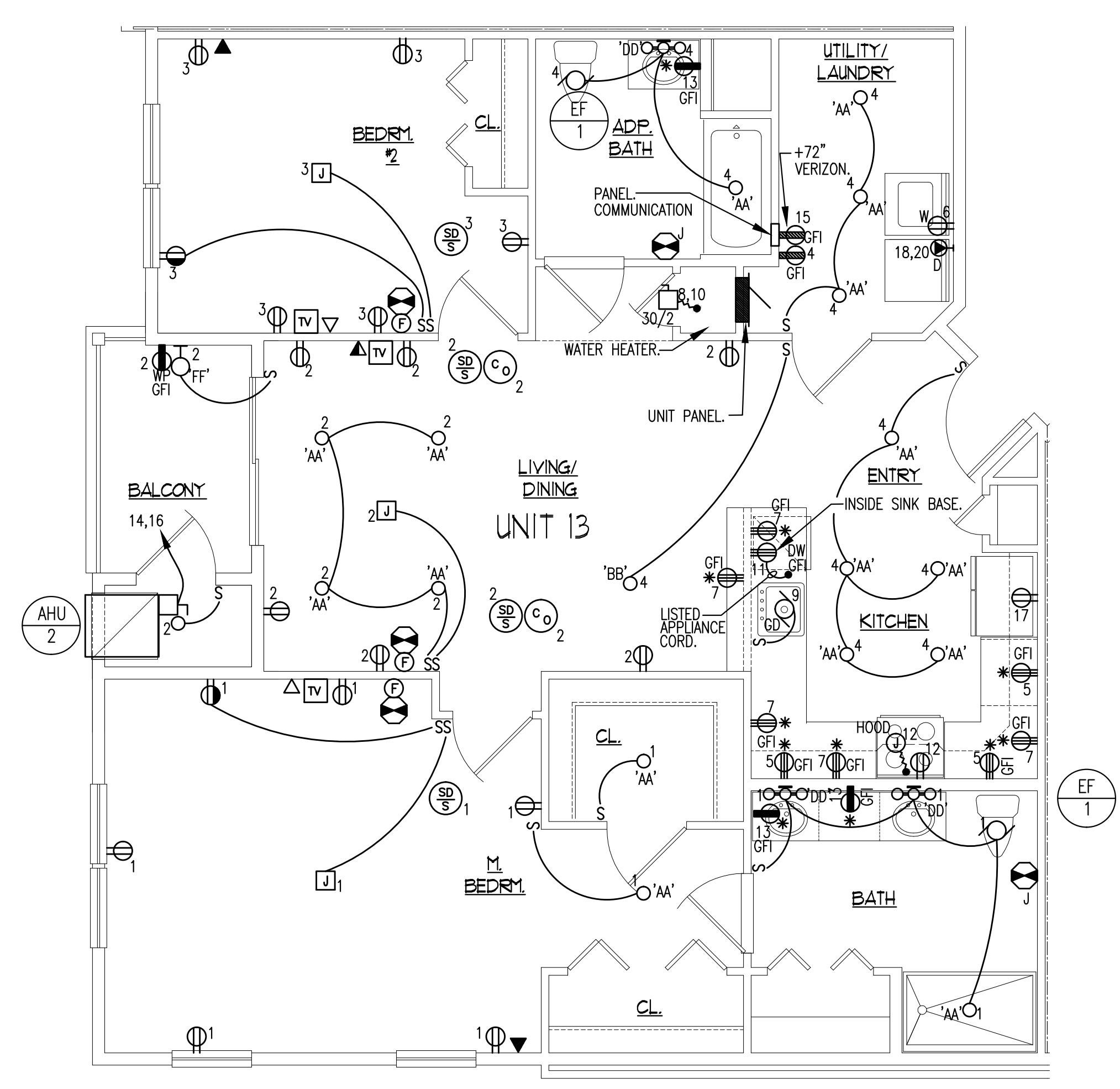
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SUBSET TITLE: ELECTRICAL UNIT PLANS

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SCALE: AS NOTED
N.J. FE LICENSE #: 18513

05/20/2024

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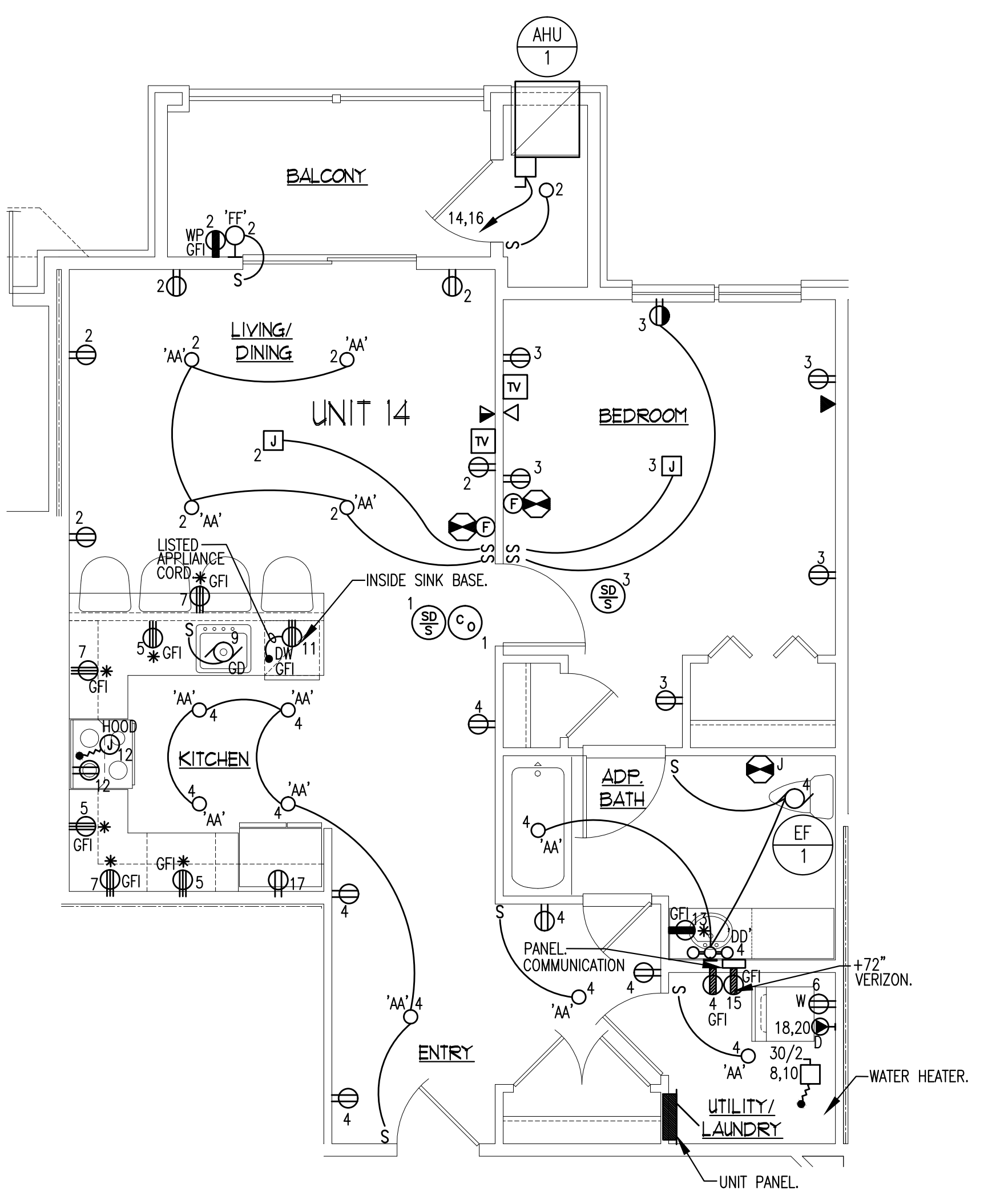


UNIT TYPE 13 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

PANEL	UNIT 13	120 / 208	VOLTS					
LOCATION		1 # 3	WIRE					
MOUNTING	RECESSED	10,000	MIN. A.I.C.					
125/2 MAIN C/B								
WIRE	DIRECTORY	BRK	DIR	AB	DIR	BRK	DIRECTORY	WIRE
#14	GENERAL LIGHTING	15/1	1	2	15/1		GENERAL LIGHTING	#14
#14	GENERAL LIGHTING	15/1	3	4	15/1		GENERAL LIGHTING	#14
#12	APPLIANCE CIRCUIT	20/1	5	6	20/1		WASHER	#12
#12	APPLIANCE CIRCUIT	20/1	7	8	30		WATER HEATER	#10
#12	GARBAGE DISPOSAL (FUTURE)	20/1	9	10	2			#12
#12	DISHWASHER	20/1	11	12	20/1			#12
#12	BATHROOM RECEPTACLES	20/1	13	14	20		RANGE & HOOD	#12
#12	VERIZON	20/1	15	16	2		AHU-2	① #12
#12	REFRIGERATOR	20/1	17	18	30			#12
#12	SPARE	20/1	19	20	2		DRYER	#10

▲ PROVIDE COMBINATION AFCI/GFCI CIRCUIT BREAKER. ① HACR CIRCUIT BREAKER REQUIRED PER NEC.

• PROVIDE ARC FAULT CIRCUIT BREAKERS
ALL CIRCUITS PER
NEC ARTICLE 210.12 (A)

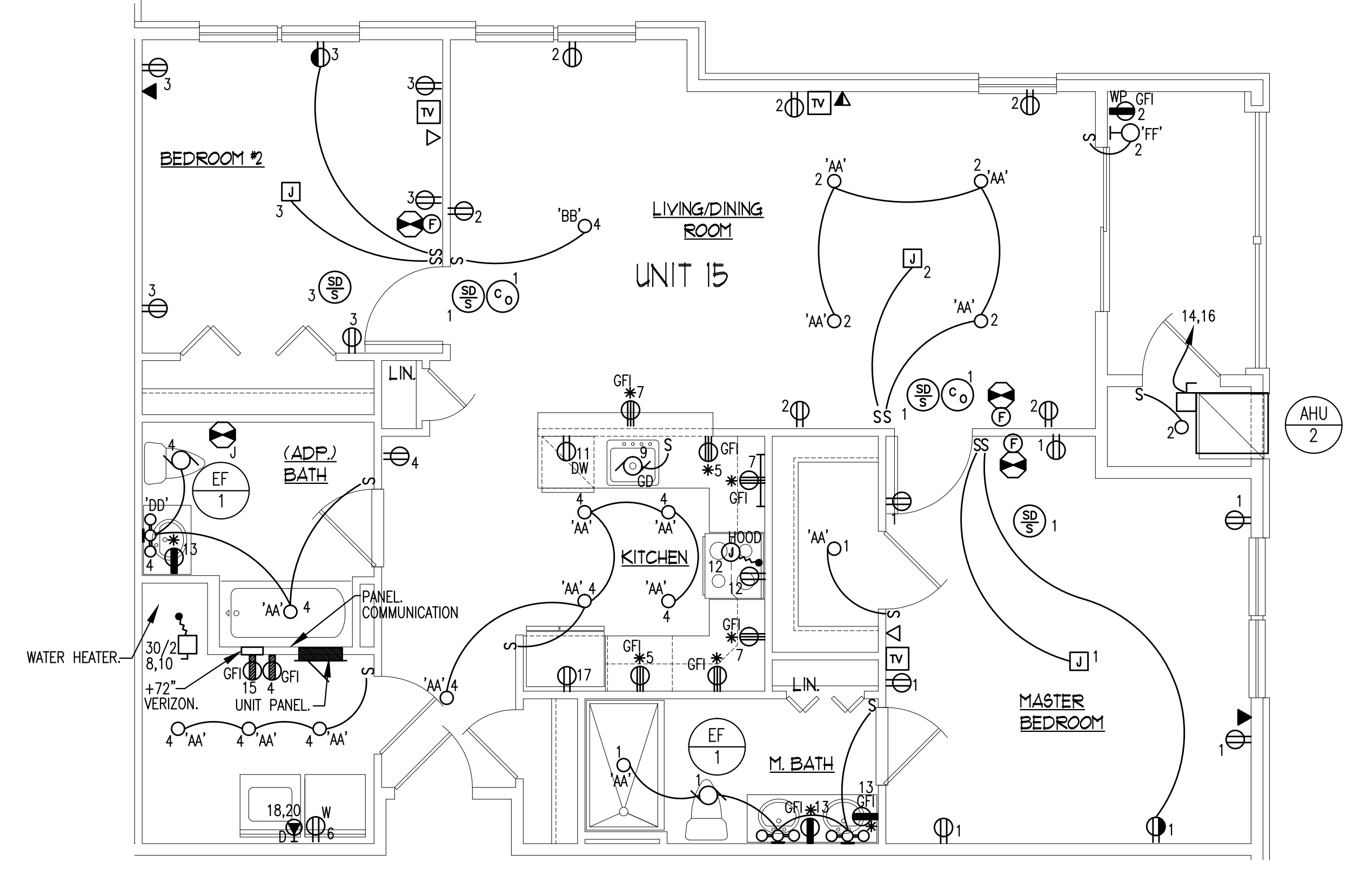


UNIT TYPE 14 - (1) BEDROOM
SCALE: 1/4" = 1'-0"

PANEL	UNIT 14	120 / 208	VOLTS					
LOCATION		1 # 3	WIRE					
MOUNTING	RECESSED	10,000	MIN. A.I.C.					
125/2 MAIN C/B								
WIRE	DIRECTORY	BRK	DIR	AB	DIR	BRK	DIRECTORY	WIRE
#14	GENERAL LIGHTING	15/1	1	2	15/1		GENERAL LIGHTING	#14
#14	GENERAL LIGHTING	15/1	3	4	15/1		GENERAL LIGHTING	#14
#12	APPLIANCE CIRCUIT	20/1	5	6	20/1		WASHER	#12
#12	APPLIANCE CIRCUIT	20/1	7	8	30		WATER HEATER	#10
#12	GARBAGE DISPOSAL (FUTURE)	20/1	9	10	2			#12
#12	DISHWASHER	20/1	11	12	20/1			#12
#12	BATHROOM RECEPTACLES	20/1	13	14	20		RANGE & HOOD	#12
#12	VERIZON	20/1	15	16	2		AHU-2	① #12
#12	REFRIGERATOR	20/1	17	18	30			#12
#12	SPARE	20/1	19	20	2		DRYER	#10

▲ PROVIDE COMBINATION AFCI/GFCI CIRCUIT BREAKER. ① HACR CIRCUIT BREAKER REQUIRED PER NEC.

• PROVIDE ARC FAULT CIRCUIT BREAKERS
ALL CIRCUITS PER
NEC ARTICLE 210.12 (A)

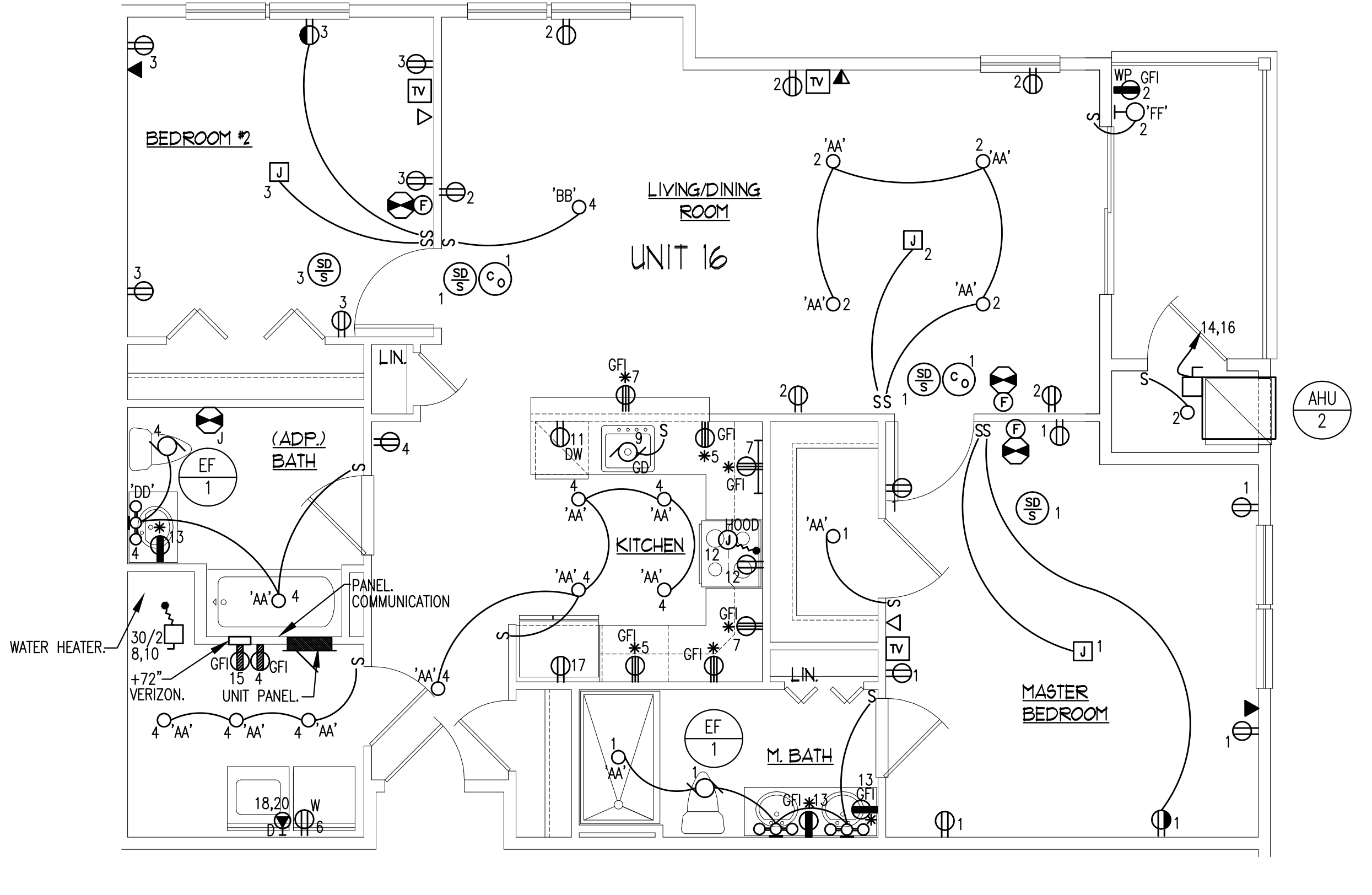


UNIT TYPE 15 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

PANEL	UNIT 15	120 / 208	VOLTS					
LOCATION		1 # 3	WIRE					
MOUNTING	RECESSED	10,000	MIN. A.I.C.					
125/2 MAIN C/B								
WIRE	DIRECTORY	BRK	DIR	AB	DIR	BRK	DIRECTORY	WIRE
#14	GENERAL LIGHTING	15/1	1	2	15/1		GENERAL LIGHTING	#14
#14	GENERAL LIGHTING	15/1	3	4	15/1		GENERAL LIGHTING	#14
#12	APPLIANCE CIRCUIT	20/1	5	6	20/1		WASHER	#12
#12	APPLIANCE CIRCUIT	20/1	7	8	30		WATER HEATER	#10
#12	GARBAGE DISPOSAL (FUTURE)	20/1	9	10	2			#12
#12	DISHWASHER	20/1	11	12	20/1			#12
#12	BATHROOM RECEPTACLES	20/1	13	14	20		RANGE & HOOD	#12
#12	VERIZON	20/1	15	16	2		AHU-2	① #12
#12	REFRIGERATOR	20/1	17	18	30			#12
#12	SPARE	20/1	19	20	2		DRYER	#10

▲ PROVIDE COMBINATION AFCI/GFCI CIRCUIT BREAKER. ① HACR CIRCUIT BREAKER REQUIRED PER NEC.

• PROVIDE ARC FAULT CIRCUIT BREAKERS
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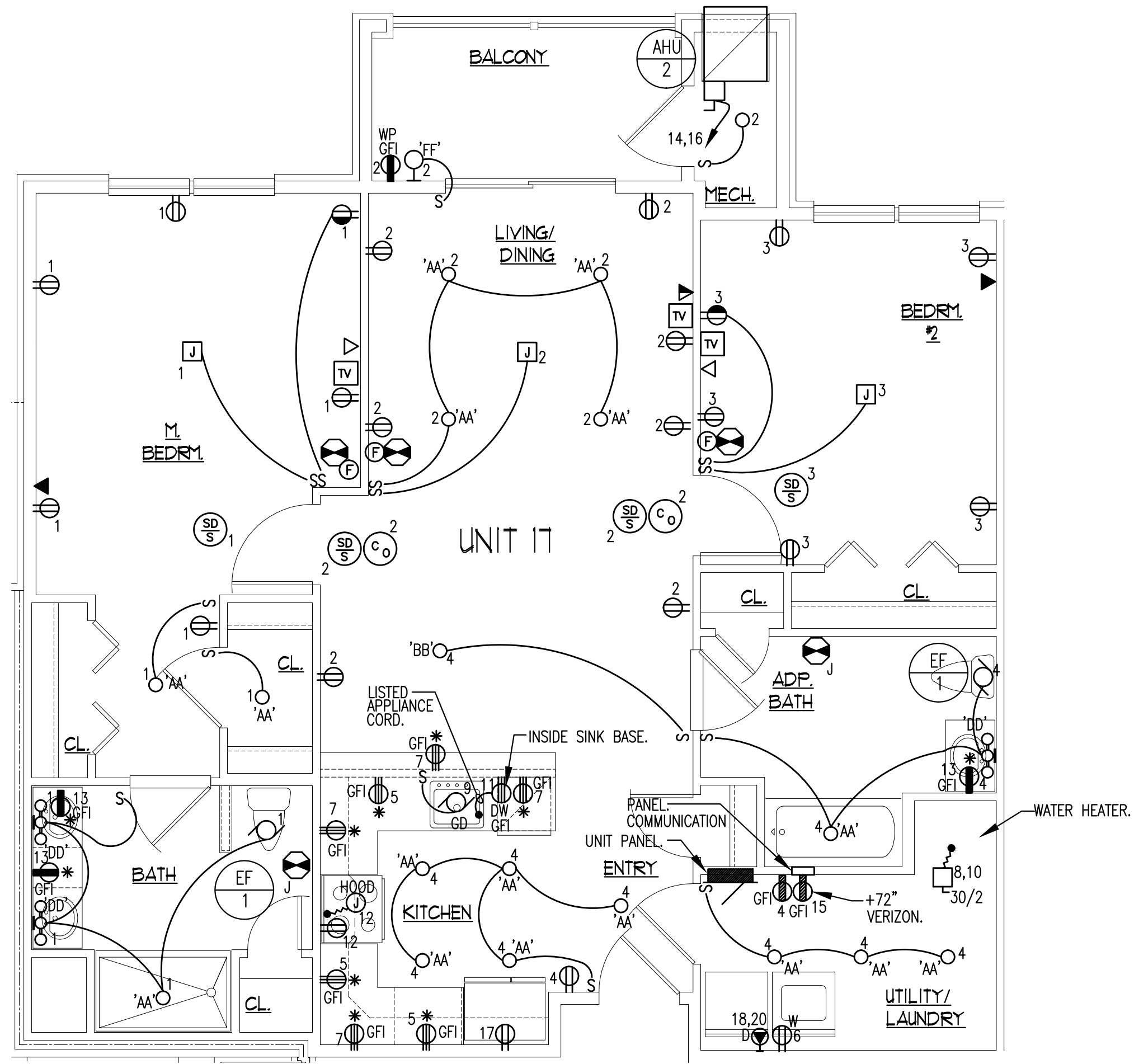


UNIT TYPE 16 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

PANEL	UNIT 16	120 / 208	VOLTS					
LOCATION		1 # 3	WIRE					
MOUNTING	RECESSED	10,000	MIN. A.I.C.					
125/2 MAIN C/B								
WIRE	DIRECTORY	BRK	DIR	AB	DIR	BRK	DIRECTORY	WIRE
#14	GENERAL LIGHTING	15/1	1	2	15/1		GENERAL LIGHTING	#14
#14	GENERAL LIGHTING	15/1	3	4	15/1		GENERAL LIGHTING	#14
#12	APPLIANCE CIRCUIT	20/1	5	6	20/1		WASHER	#12
#12	APPLIANCE CIRCUIT	20/1	7	8	30		WATER HEATER	#10
#12	GARBAGE DISPOSAL (FUTURE)	20/1	9	10	2			#12
#12	DISHWASHER	20/1	11	12	20/1			#12
#12	BATHROOM RECEPTACLES	20/1	13	14	20		RANGE & HOOD	#12
#12	VERIZON	20/1	15	16	2		CONDENSING UNIT (CU-2 ON ROOF)	① #12
#12	REFRIGERATOR	20/1	17	18	30			#12
#12	SPARE	20/1	19	20	2		DRYER	#10

▲ PROVIDE COMBINATION AFCI/GFCI CIRCUIT BREAKER. ① HACR CIRCUIT BREAKER REQUIRED PER NEC.

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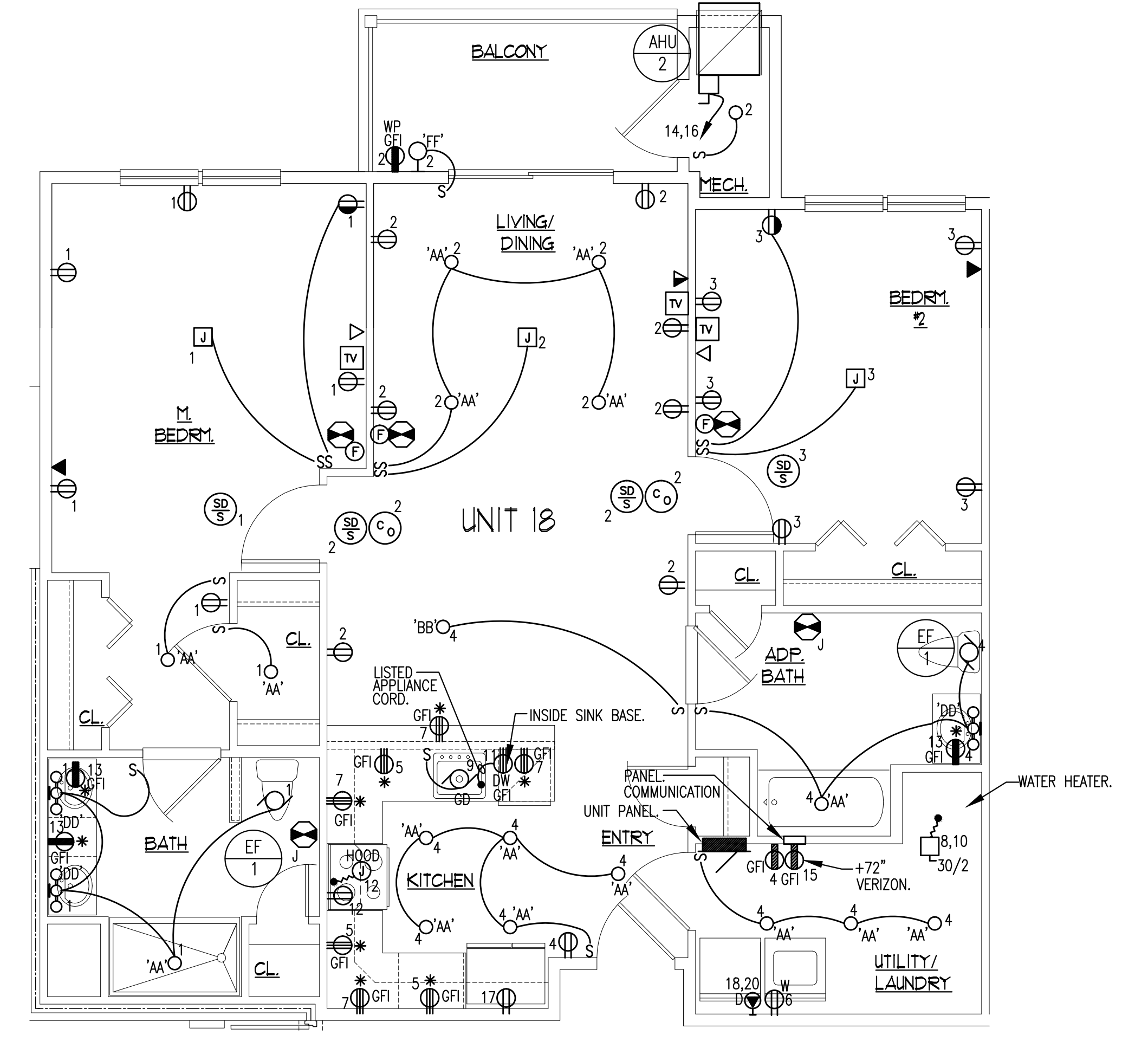


UNIT TYPE 17 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

PANEL	UNIT 17	120 / 208	VOLTS					
LOCATION		1 # 3	WIRE					
MOUNTING	RECESSED	10,000	MIN. A.I.C.					
125/2 MAIN C/B								
WIRE	DIRECTORY	BRK	DIR	AB	DIR	BRK	DIRECTORY	WIRE
#14	GENERAL LIGHTING	15/1	1	2	15/1		GENERAL LIGHTING	#14
#14	GENERAL LIGHTING	15/1	3	4	15/1		GENERAL LIGHTING	#14
#12	APPLIANCE CIRCUIT	20/1	5	6	20/1		WASHER	#12
#12	APPLIANCE CIRCUIT	20/1	7	8	30		WATER HEATER	#10
#12	GARBAGE DISPOSAL (FUTURE)	20/1	9	10	2			#12
#12	DISHWASHER	20/1	11	12	20/1			#12
#12	BATHROOM RECEPTACLES	20/1	13	14	20		RANGE & HOOD	#12
#12	VERIZON	20/1	15	16	2		AHU-2	① #12
#12	REFRIGERATOR	20/1	17	18	30			#12
#12	SPARE	20/1	19	20	2		DRYER	#10

▲ PROVIDE COMBINATION AFCI/GFCI CIRCUIT BREAKER. ① HACR CIRCUIT BREAKER REQUIRED PER NEC.

• PROVIDE ARC FAULT CIRCUIT BREAKERS
ALL CIRCUITS PER
NEC ARTICLE 210.12 (A)



UNIT TYPE 18 - (2) BEDROOM
SCALE: 1/4" = 1'-0"

PANEL	UNIT 18	120 / 208	VOLTS					
LOCATION		1 # 3	WIRE					
MOUNTING	RECESSED	10,000	MIN. A.I.C.					
125/2 MAIN C/B								
WIRE	DIRECTORY	BRK	DIR	AB	DIR	BRK	DIRECTORY	WIRE
#14	GENERAL LIGHTING	15/1	1	2	15/1		GENERAL LIGHTING	#14
#14	GENERAL LIGHTING	15/1	3	4	15/1		GENERAL LIGHTING	#14
#12	APPLIANCE CIRCUIT	20/1	5	6	20/1		WASHER	#12
#12	APPLIANCE CIRCUIT	20/1	7	8	30		WATER HEATER	#10
#12	GARBAGE DISPOSAL (FUTURE)	20/1	9	10	2			#12
#12	DISHWASHER	20/1	11	12	20/1			#12
#12	BATHROOM RECEPTACLES	20/1	13	14	20		RANGE & HOOD	#12
#12	VERIZON	20/1	15	16	2		AHU-2	① #12
#12	REFRIGERATOR	20/1	17	18	30			#12
#12	SPARE	20/1	19	20	2		DRYER	#10

▲ PROVIDE COMBINATION AFCI/GFCI CIRCUIT BREAKER. ① HACR CIRCUIT BREAKER REQUIRED PER NEC.

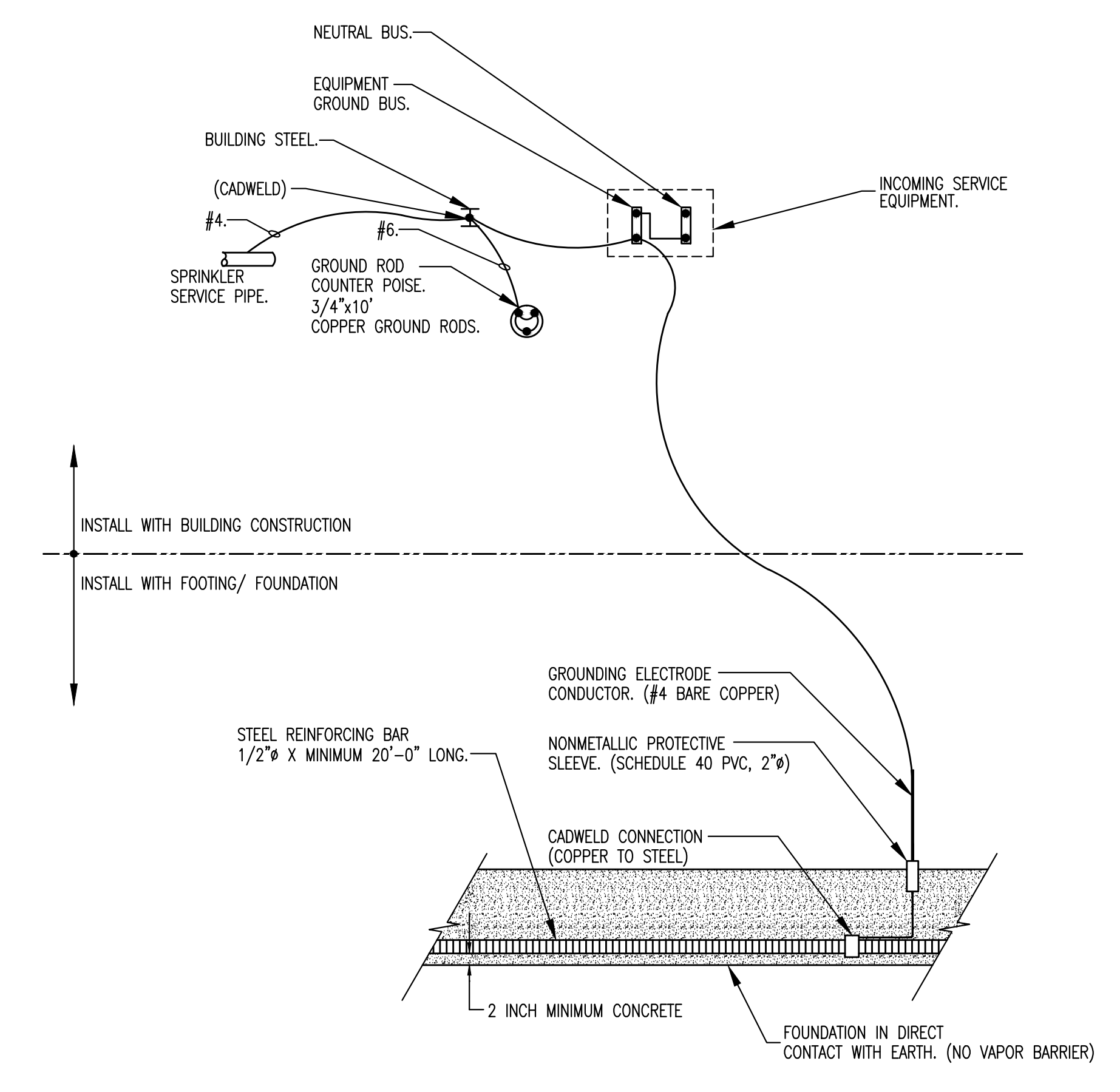
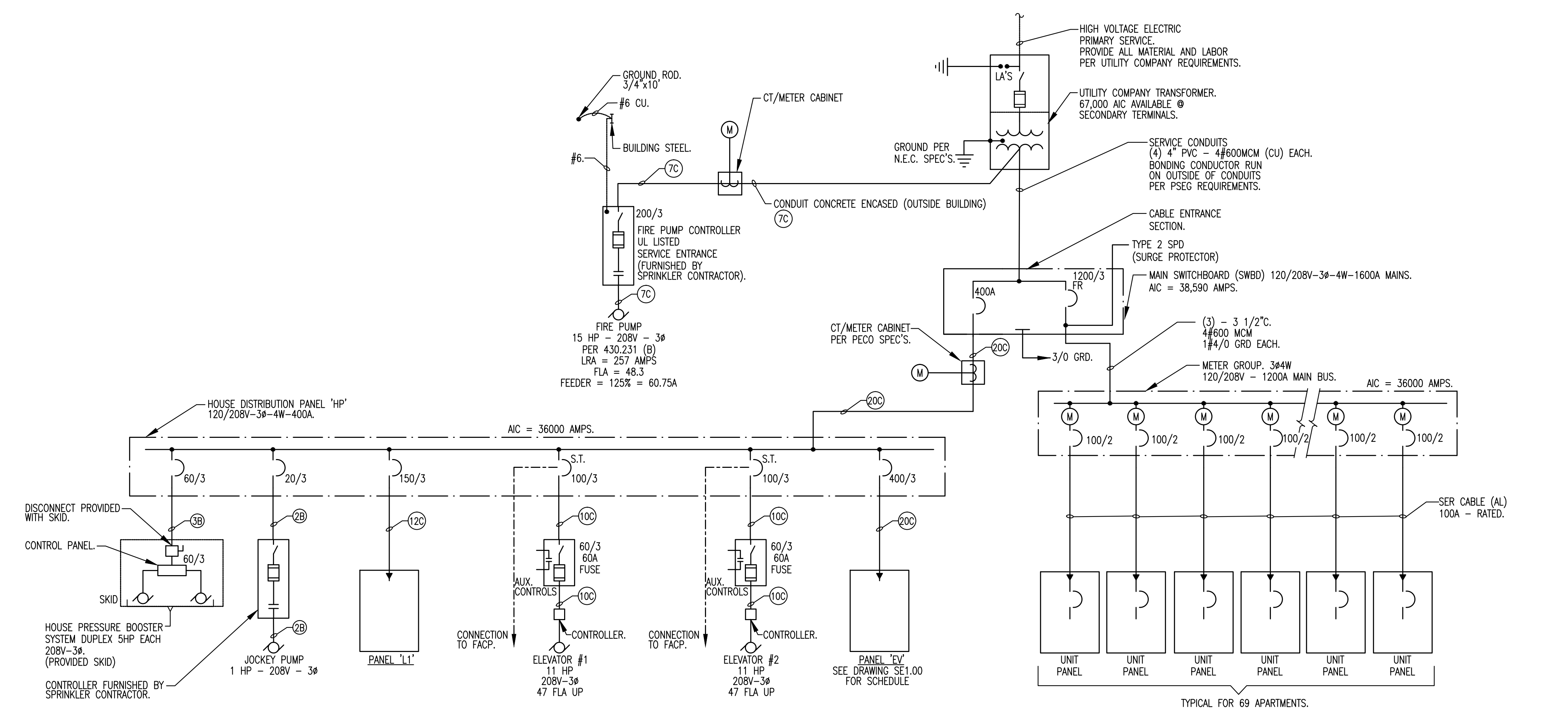
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DESIGNED	JES	SEAL	WILLIAM A. FEINBERG
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PROJ. NO.	200-45	N.J. REG. LICENSE # 18513	
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FAX: jeschade@schadeng.com

05/20/2024



PANEL L1		120 / 208 VOLTS	
LOCATION ELECTRIC ROOM		3 Phase 4 WIRE	
MOUNTING SURFACE		22,000 MIN. A.I.C.	
WIRE A B C WIRE			
0.25	0.7	0.4	0.5
0.56	1.26	1.08	0.72
1.2	1.0	1.08	0.9
0.9	1.26	1.1	0.9
1.1	0.5	0.9	0.25
3.5	3.5	0.72	0.75
0.125	0.72		
7.62	8.98	8.94	4.51 6.84 4.65
PHASE A		12.13	KVA
PHASE B		15.82	KVA
PHASE C		13.59	KVA
TOTAL		41.53	KVA

WIRE AND CONDUIT SIZING SCHEDULE (COPPER)									
AMPS	FEEDER TAG #	WIRE SIZE (AWG/KMIL)		NO. OF WIRES & CONDUIT SIZE IN INCHES					
		CONDUCTOR PHASE	& NEUTRAL	GROUND	A	B	C	IG	
15	1	14	14	3/4	3/4	3/4			
20	2	12	12	3/4	3/4	3/4			
30	3	10	10	3/4	3/4	3/4			
40	4	8	10	3/4	3/4	3/4			
50	5	6	10	3/4	3/4	1			
60	6	4	10	3/4	1	1 1/4	1 1/4		
70	7	4	8	3/4	1	1 1/4	1 1/4		
80	8	4	8	1	1	1 1/4	1 1/4		
90	9	3	8	1	1 1/4	1 1/4	1 1/2		
100	10	2	8	1 1/4	1 1/4	1 1/2	1 1/2		
125	11	1	6	1 1/4	1 1/4	1 1/2	1 1/2		
150	12	1/0	6	1 1/4	1 1/2	2	2		
175	13	2/0	6	1 1/2	2	2	2		
200	14	3/0	6	1 1/2	2	2	2 1/2		
225	15	4/0	4	2	2 1/2	2 1/2	2 1/2		
250	16	250	4	2	2 1/2	2 1/2			
275	17	300	4	2	2 1/2	2 1/2			
300	18	350	4	2	2 1/2	3			
325	19	400	3	2 1/2	3	3			
400	20	500	3	2 1/2	3	3			
450	21	(2) 4/0	(2) 2	---	(2) 2 1/2	(2) 2 1/2			
500	22	(2) 250	(2) 2	---	(2) 2 1/2	(2) 2 1/2			
600	23	(2) 350	(2) 1	---	(2) 2 1/2	(2) 3			
700	24	(2) 500	(2) 1/0	---	(2) 3	(2) 3			
800	25	(2) 500	(2) 1/0	---	(2) 3	(2) 3			

LOAD SUMMATION - Building C			
Apt Type	Quantity	Load (KW)	Total (KW)
1 - 2 BEDROOM	6	16,693	100,158
2 - 2 BEDROOM	1	16,645	16,645
3 - 2 BEDROOM	1	16,753	16,753
4 - 2 BEDROOM	1	16,528	16,528
5 - 2 BEDROOM	12	16,736	200,836
6 - 2 BEDROOM	2	16,690	33,380
7 - 2 BEDROOM	2	18,825	37,650
8 - 2 BEDROOM	2	16,903	33,806
9 - 2 BEDROOM	14	16,705	233,870
10 - 2 BEDROOM	2	16,537	33,074
11 - 2 BEDROOM	5	16,663	83,465
12 - 2 BEDROOM	2	16,963	33,926
13 - 2 BEDROOM	4	16,972	67,888
14 - 2 BEDROOM	1	14,754	14,754
15/16 - 2 BEDROOM	3	16,954	50,862
17/18 - 2 BEDROOM	3	16,528	49,584
19/20 - 2 BEDROOM	4	16,483	65,932
21/21A - 2 BEDROOM	4	16,480	65,920
Total	69		1,155,081

SYSTEM ELECTRIC LOAD (KVA)						
PANEL	LIGHTING	EV CHARGERS	RECEPTACLE	HVAC	ELECT HEAT	TOTAL LOAD
L1	6.32	7.9	-	20.1	14	21.9
HP	-	-	-	44.4	55.5	55.5
APARTMENT	-	-	-	-	-	392.84
EV CHARGERS	-	45.6	54.5	-	-	54.5
TOTAL						524.74

PANEL HP		120 / 208 VOLTS	
LOCATION ELECTRIC ROOM		3 Phase 4 WIRE	
MOUNTING SURFACE		22,000 MIN. A.I.C.	
WIRE A B C WIRE			
1.5	1.5		
1.0			
2.25	2.25		
3.0			
3.0	3.0		
3.0	3.0		
4.0	4.0		
5.6	5.6		
19.35	20.35	16.60	10.0 12.8 12.6
PHASE A		29.35	KVA
PHASE B		33.10	KVA
PHASE C		29.20	KVA
TOTAL		91.65	KVA

NOTES:
 1. THE ABOVE SCHEDULE IS BASED ON NEC TABLE 310 (16) FOR 600 VOLT WIRE, TYPE THWN/90HHW AND INSTALLED IN EMT/RIGID STEEL CONDUIT/PVC.
 2. E.C. RESPONSIBLE TO VERIFY LENGTH OF CONDUCTOR RUNS AND UPSIZE WIRING AND CONDUIT AS REQUIRED FOR VOLTAGE DROP AND FOR TABLE 310 (15)(b)(16) DE-RATING ADJUSTMENTS AS REQUIRED IN NEC SECTION 310.15(b)(2). THIN INSULATION MAY BE USED FOR DE-RATING.

NO.	DATE	REVISIONS

TWIN PONDS
 BUILDING 'C'
 BLOCK 2173, LOT 21.01
 HAMILTON TOWNSHIP, NEW JERSEY
 For:
 THE KAMSON CORPORATION

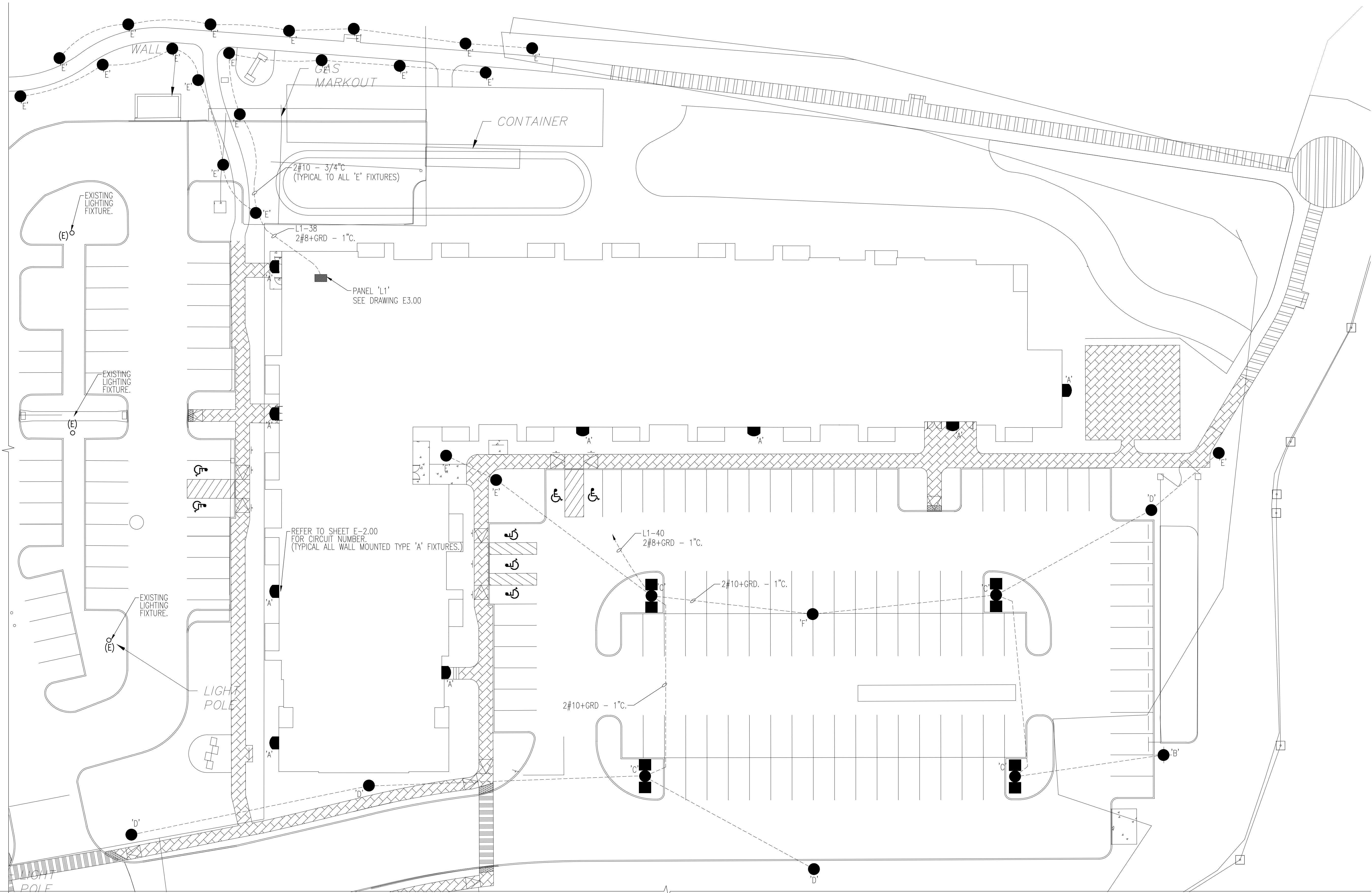
DESIGNED	SEAL	WILLIAM A. FEINBERG
C.M.	CT	ASL 9909
	DE	SS-000608
	PL	AR-0017809
	CA	BA-01045
	DI	001-017119
	MD	LS04
	NJ	AJ 12527
	NY	05696-1
	NC	8864
	PA	BA-012068-X
	SC	6947
	VA	0401 012300
	WA	3378
	WI	1418212
		4638

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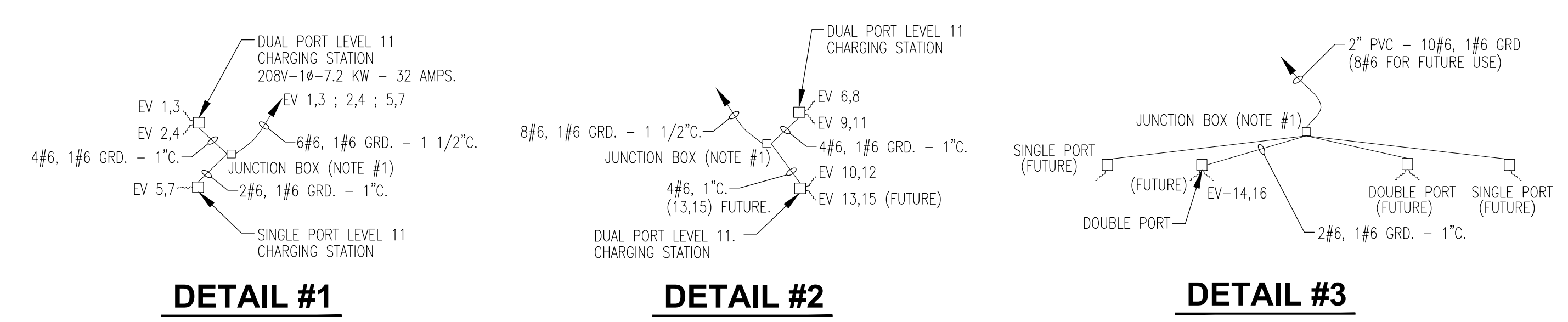
CONSULTING ENGINEERS
 200 HIGHPOINT DRIVE, SUITE 214
 CHALFONT, PA 18914
 TEL: (610) 712-0100
 FAX: jeschade@schadegroup.com

05/20/2024

DATE: 07/23/24 SHEET NO.
 PROJ. NO. 20045 E13.00
 SCALE: AS NOTED

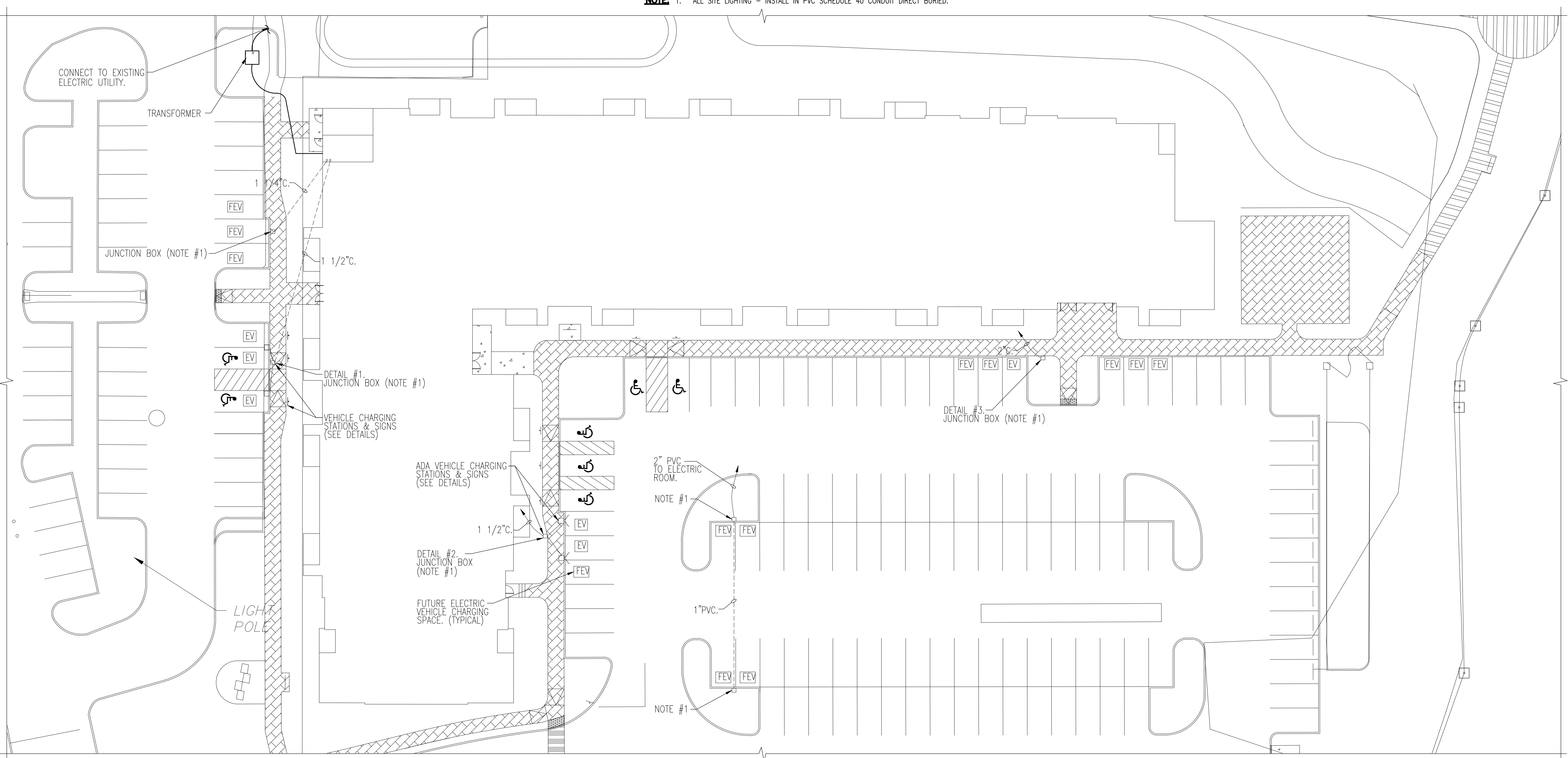


ELECTRICAL LIGHTING SITE PLAN
 SCALE: 1" = 20'-0"
 NOTE: 1. ALL SITE LIGHTING - INSTALL IN PVC SCHEDULE 40 CONDUIT DIRECT BURIED.



- NOTES:**
- DIRECT BURIED JUNCTION BOX - 12"x12"x6" OP. - COVER @ GRADE.
 - PVC CONDUIT SCHEDULE 40 - PVC - DIRECT BURIED.
 - EV - ELECTRIC VEHICLE CHARGING STATION.
 - FEV - FUTURE EV CHARGING STATION PROVIDE JUNCTION BOX, & EMPTY CONDUIT WITH PULL STRING TO ELECTRIC ROOM.

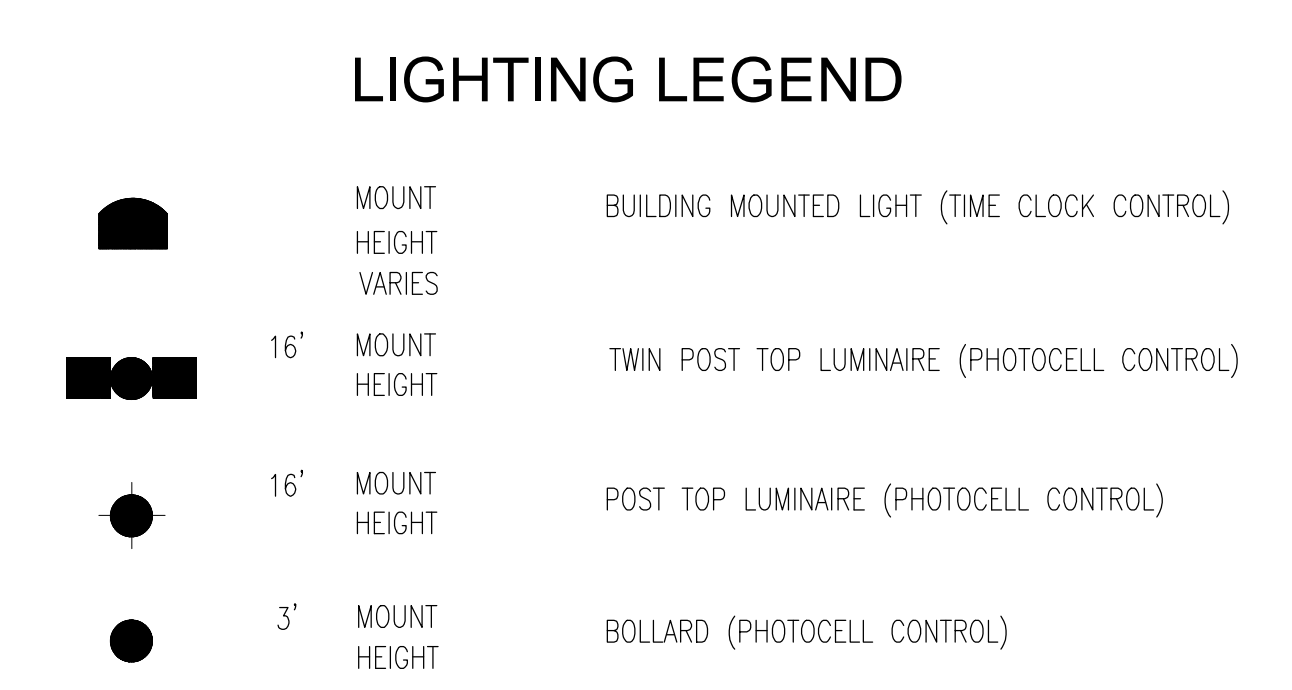
PANEL		EV ELECTRIC ROOM		120 / 208 VOLTS	
LOCATION		ELECTRIC ROOM		3 Phase 4 WIRE	
MOUNTING SURFACE				MIN. A.I.C.	
KVA		400A MAIN CIRCUIT BREAKER		KVA	
WIRE	A B C	DIR	BKR	DIR	A B C WIRE
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 1	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 2	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 3	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 4	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 5	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 6	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 7	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 8	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 9	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 10	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 11	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 12	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 13	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 14	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 15	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 16	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 17	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 18	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 19	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 20	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 21	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 22	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 23	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 24	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 25	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 26	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 27	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 28	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 29	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 30	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 31	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 32	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 33	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 34	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 35	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 36	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 37	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 38	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 39	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 40	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 41	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
#5	3.6	EV CHARGER STATION 7.2 KW	40/2 42	EV CHARGER STATION 7.2 KW	3.6 3.6 #5
SPACE		SPACE		SPACE	
25.20	25.20	21.60			25.2 25.2 21.6
PHASE A		50.40 KVA			
PHASE B		50.40 KVA			
PHASE C		43.20 KVA			
TOTAL		144.00 KVA		12 STATIONS @ 7.2 KW = 86 K	



ELECTRICAL EV STATIONS SITE PLAN
 SCALE: 1" = 20'-0"

SITE LIGHTING SCHEDULE							
SYMBOL AND TYPE	QTY	MANUFACTURER	CATALOG NUMBER	LAMP	LUMENS PER LAMP	WATTAGE	MOUNT
A	1	HAGERSTOWN BY HADCO - AREA LIGHT	REFER TO CIVIL DRAWINGS	48 LED	8,350	75.5	BUILDING MOUNT
B	1	HAGERSTOWN BY HADCO - AREA LIGHT	REFER TO CIVIL DRAWINGS	48 LED	8,350	75.5	16' POST TOP
C	1	HAGERSTOWN BY HADCO - AREA LIGHT	REFER TO CIVIL DRAWINGS	48 LED	8,825	151	16' TWIN POST TOP
D	1	HAGERSTOWN BY HADCO - AREA LIGHT	REFER TO CIVIL DRAWINGS	48 LED	10,826	75.5	16' POST TOP
E	1	LITHONIA LIGHTING - BOLLARD	REFER TO CIVIL DRAWINGS	12 LED	312	5.2	3' BOLLARD
F	1	HAGERSTOWN BY HADCO - AREA LIGHT	REFER TO CIVIL DRAWINGS	48 LED	8,350	75.5	16' POST TOP

- NOTES:**
- SCHEDULE SHOWN FOR REFERENCE ONLY. REFER TO CIVIL ENGINEERS DRAWINGS SHEET 15 AND 16 FOR FIXTURE SPECIFICATIONS INFO. ALL FIXTURES FURNISHED/INSTALLED/CONNECTED BY SITE CONTRACTOR. ALL FIXTURES 208V, PROVIDED WITH FIXTURE/POLE MOUNTED PHOTO CELL.



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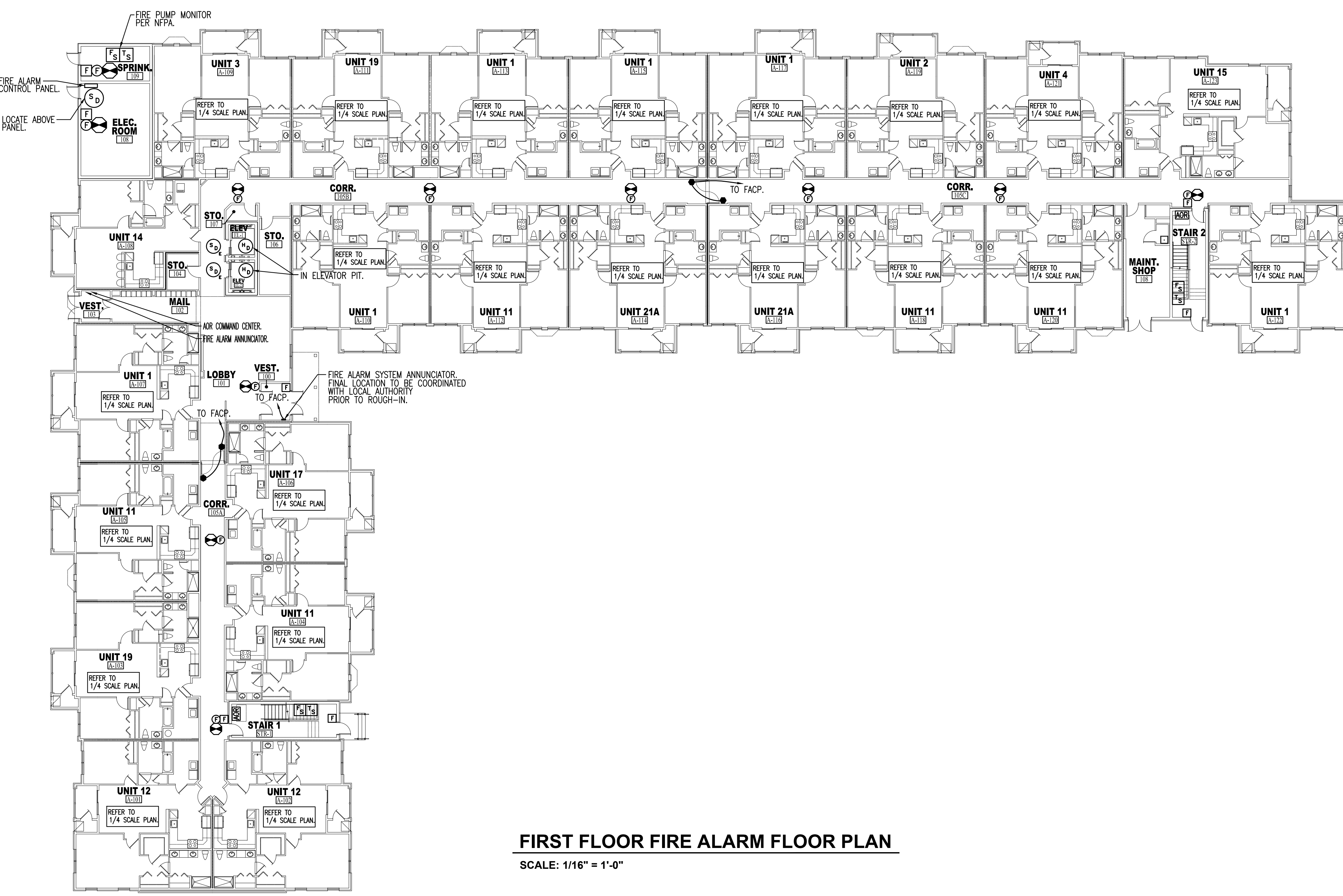
TWIN PONDS
 BUILDING 'C'
 BLOCK 2173, LOT 21.01
 HAMILTON TOWNSHIP, NEW JERSEY
 For:
 THE KAMSON CORPORATION

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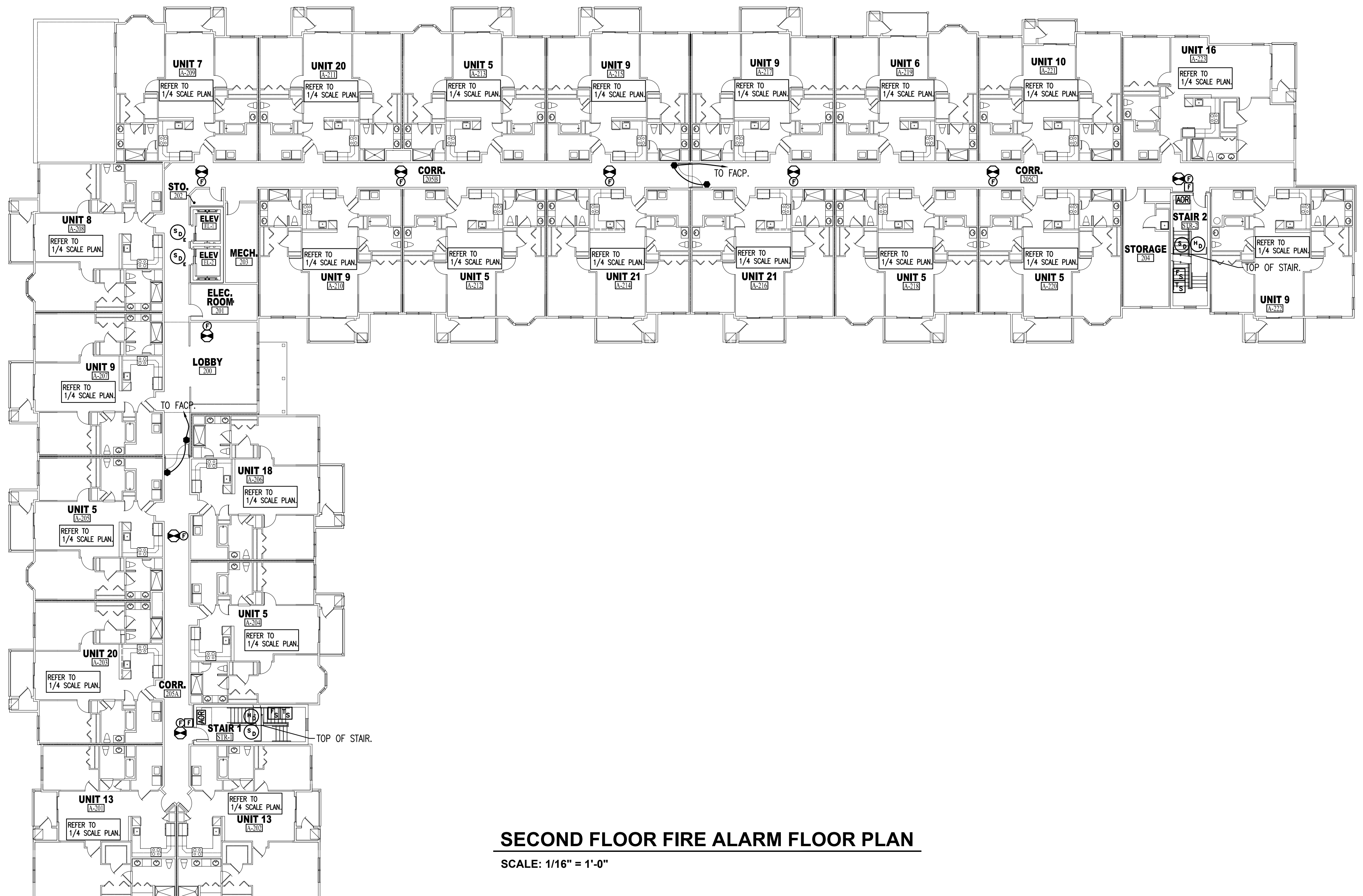
DESIGNED	SEAL	WILLIAM A. FEINBERG
DRAWN	DT	AS2 8900
CHECKED	DR	SV-0000008
APPROVED	PL	AR-0017869
	CA	BA-010045
	DL	OO-017319
	MD	12004
	NJ	AI 12527
	NY	03666-1
	NC	8864
	PA	BA-012088-X
	SC	6347
	VA	0401 012000
	MA	31878
	OH	141822
	RI	4608

ELECTRICAL SITE PLANS & SCHEDULES

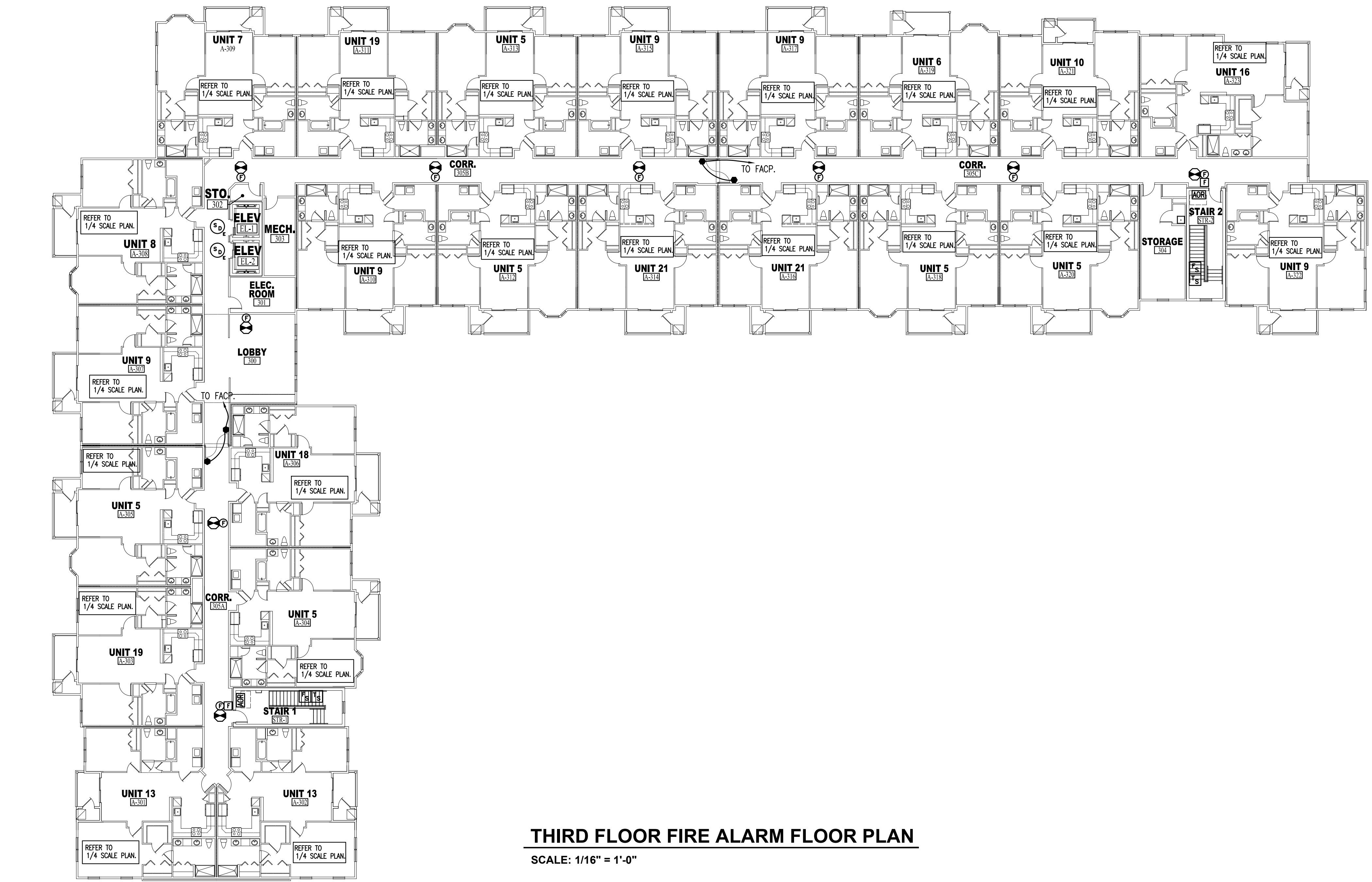
DATE: 01/23/24 SHEET NO:
 PROJ. NO: 20045 SE-1.00
 SCALE: AS NOTED



FIRST FLOOR FIRE ALARM FLOOR PLAN
 SCALE: 1/16" = 1'-0"



SECOND FLOOR FIRE ALARM FLOOR PLAN
 SCALE: 1/16" = 1'-0"



THIRD FLOOR FIRE ALARM FLOOR PLAN
 SCALE: 1/16" = 1'-0"

REVISIONS	
NO.	DATE

TWIN PONDS
 BUILDING 'C'
 BLOCK 2173, LOT 21.01
 HAMILTON TOWNSHIP, NEW JERSEY
 For:
 THE KAMSON CORPORATION

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 Architects/Engineers/Interior Designers
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DESIGNED	SEAL: WILLIAM A. FEINBERG
C.M.	CT AS2 9900
DRAWN	DR SE-0006008
C.M.	PL AR-0017869
	GA BA-01045
	IL BO-017319
	MO LS204
	NJ AJ 12527
	NY OS666-1
	PA 0666-1
	RI 8864
	VA BA-012068-X
	SC 6347
	VA 0401 012300
	MA 31876
	OH 1418212
	RI 4638

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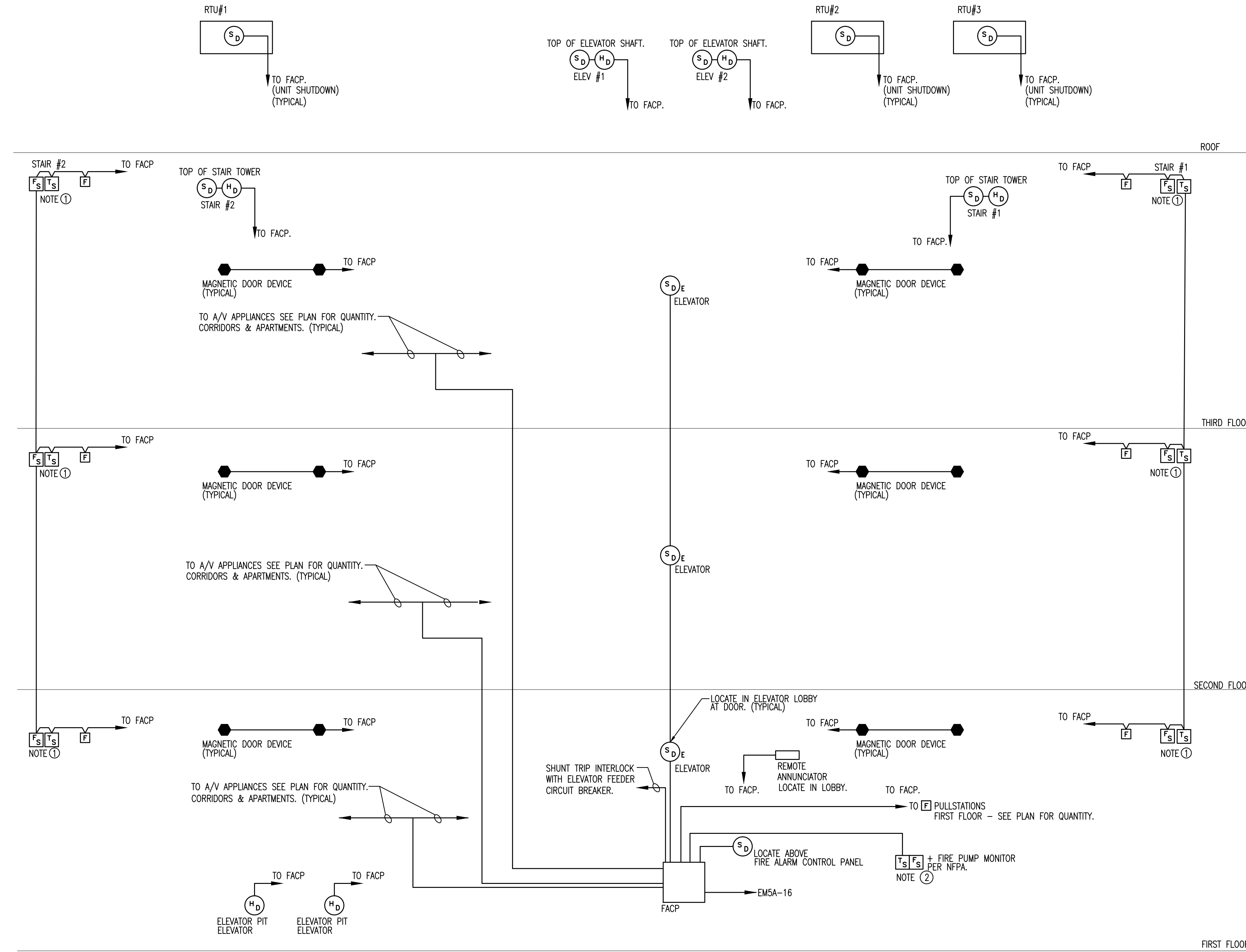
JOHN E. SCHADE ASSOCIATES, INC.

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 TEL: (610) 712-0100
 EMAIL: jeschade@eschade.com

DESIGNED	DATE: 07/23/24	SHEET NO.
DRAWN	PROJ. NO. 20045	FA1.00
CHECKED	SCALE: AS NOTED	
APPROVED		

05/20/2024

N.J. PE LICENSE # 18513



FIRE ALARM RISER DIAGRAM

- NOTES:**
- ① COORDINATE FLOW/TAMPER SWITCHES LOCATIONS WITH SPRINKLER DRAWINGS.
 - ② COORDINATE FLOW/TAMPER SWITCHES LOCATION AND QUANTITY AT WATER SERVICE ENTRANCE WITH SPRINKLER DRAWINGS. AND FIRE PUMP MONITOR PER NFPA.
 - ③ WIRING - UL AND NEC APPROVED FIRE POWER LIMITED CABLE RUN OPEN - WHERE SUBJECT TO PHYSICAL DAMAGE - INSTALL IN CONDUIT.
 - ④ SYSTEM TO MEET LOCAL AUTHORITY HAVING JURISDICTION REQUIREMENTS.
 - ⑤ SUBMIT SHOP DRAWINGS DEVICES AND POINT TO POINT WIRING.
 - ⑥ FIRE ALARM SYSTEM, EQUIPMENT AND INSTALLATION SHALL CONFORM IN ALL RESPECTS TO IBC 2018 (NO EDITION) & NFPA 72. REQUIREMENTS OF THESE CODES SHALL TAKE PRECEDENCE OVER PROJECT DRAWINGS.

**TWIN PONDS
 BUILDING 'C'
 BLOCK 2173, LOT 21.01
 HAMILTON TOWNSHIP, NEW JERSEY**
 For:
THE KAMSON CORPORATION

NO.	DATE	REVISIONS

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DESIGNED C.M.	SEAL: WILLIAM A. FEINBERG AS2 9909
DRAWN C.M.	DATE: 02/23/24
	PROJECT: AR-0017869
	CLIENT: 001-017319
	ADDRESS: 12304
	CITY: NJ 08043
	STATE: NJ 08043
	COUNTY: 08043
	ZIP: 08043
CHECKED JES	DATE: 02/23/24
APPROVED JES	DATE: 02/23/24

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JOHN E. SCHADE ASSOCIATES, INC.

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 CHALFONT, PA 18914
 TEL: (610) 712-0190
 EMAIL: john.schade@schade.com

SHEET TITLE
**FIRE ALARM
 RISER DIAGRAMS**

DATE: 02/23/24
 PROJ. NO. 20045
 SCALE: AS NOTED

DATE: 05/20/2024
 NJ PE LICENSE # 16513

05/20/2024

GUIDELINE SPECIFICATIONS - FIRE PROTECTION

I - GENERAL

- A - THE PLANS AND SPECIFICATIONS ARE SCHEMATIC DOCUMENTS. WHILE THE PLANS INDICATE SPRINKLER HEAD PIPING LOCATIONS, THESE MAY VARY ACCORDING TO FIELD CONDITIONS.
- B - THE PLANS MAY NOT INCLUDE ALL DETAILS AND REQUIRED APPURTENANCES. THE INTENT IS THAT THE CONTRACTOR PROVIDE A COMPLETE OPERATIONAL SYSTEM UTILIZING THE LATEST EDITION OF APPLICABLE BUILDING CODES AND STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUPPLY AND INSTALL A COMPLETE SYSTEM ACCORDING TO THESE STANDARDS, INCLUDING BUT NOT LIMITED TO REQUIRED PUMPS, COMPRESSORS, ALARMS, AND MONITORS.
- C - ALL LABOR, MATERIALS, AND WORKMANSHIP SHALL BE GUARANTEED BY THE CONTRACTOR. GUARANTEES SHALL BE FOR ONE YEAR FOLLOWING THE COMPLETION AND ACCEPTANCE BY THE OWNER OF THE WORK. GUARANTEES SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT.
- D - REGULATIONS

- 1 - THE ENTIRE INSTALLATION, INCLUDING MATERIALS, INSULATION, EQUIPMENT AND WORKMANSHIP, SHALL CONFORM TO ALL APPLICABLE LAWS, CODES, AND REGULATIONS OF MUNICIPAL, COUNTY, STATE, AND FEDERAL AUTHORITIES, MECHANICAL CODE, AND NATIONAL FIRE PROTECTION ASSOCIATION CODES, UNDERWRITERS' LABORATORIES, NATIONAL ELECTRICAL CODE, AND OTHER REGULATORY BODIES HAVING JURISDICTION.

- E - COORDINATION
- 1 - THE CONTRACTOR SHALL REVIEW THE LOCATION OF ALL EQUIPMENT AND MATERIALS SO THAT ALL WORK MAY BE INSTALLED IN THE MOST DIRECT MANNER AND SO THAT INTERFERENCES BETWEEN PIPES, DUCTS, CONDUITS, EQUIPMENT AND ARCHITECTURAL AND STRUCTURAL FEATURES ARE AVOIDED.
- 2 - VERIFY ALL SITE CONDITIONS PRIOR TO BIDDING AND BEGINNING CONSTRUCTION.
- 3 - OSHA SAFETY AND CONSTRUCTION STANDARDS SHALL BE FOLLOWED FOR THE ENTIRE PROJECT.
- 4 - THE CONTRACTOR SHALL MAKE A SITE VISITATION AND ALLOW FOR ALL WORKING CONDITIONS PRIOR TO PRESENTING A PROPOSAL.
- 5 - CONTRACTOR SHALL REVIEW THE WORK AND DRAWINGS OF OTHER TRADES. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES BEFORE PROCEEDING WITH NEW WORK.

- F - LEGENDS - PROVIDE COLORED AND DIRECTIONAL LEGENDS ON ALL PIPING SYSTEMS.

- G - ALL CUTTING AND PATCHING IN CONSTRUCTION SHALL BE DONE BY THIS CONTRACTOR.

- H - UPON COMPLETION OF THE WORK, REMOVE ALL EXCESS MATERIAL, DEBRIS, TOOLS AND EQUIPMENT FROM THE SITE, AND LEAVE THE PREMISES IN A ROOM CLEAN CONDITION.

- I - BEFORE PROCEEDING WITH WORK, SUBMIT SHOP DRAWINGS FOR THE COMPLETE JOB. THESE SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING: SPRINKLER HEAD CUTS, MANUFACTURERS' INSTALLATION DETAILS, SLEEVES AND INSERTS, OPERATING & MAINTENANCE MANUALS.

- J - CONTRACTOR SHALL SUBMIT SPRINKLER SHOP DRAWINGS INCLUDING DETAILS AND HYDRAULIC CALCULATIONS TO LOCAL CODE AUTHORITY FOR REVIEW AND APPROVAL. AFTER ARCHITECT ENGINEER HAVE APPROVED THESE DRAWINGS AND CALCULATIONS AND STAMPED APPROXIMATELY.

II - PIPING SYSTEMS

- A - GENERAL - THE APPLICABLE PARAGRAPHS OF GENERAL CONDITIONS ARE HEREBY MADE A PART OF THIS SECTION.

- B - SCOPE - PROVIDE ALL LABOR, MATERIALS, INSULATION, EQUIPMENT, SUPERVISION AND APPURTENANCES NECESSARY TO COMPLETE THE PIPING WORK AS REQUIRED AND/OR AS SPECIFIED HEREIN. WORK UNDER THIS SECTION INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:
 - 1 - COMPLETE DESIGN DRAWINGS AND CALCULATIONS SEALED BY A REGISTERED PROFESSIONAL ENGINEER (NJ)
 - 2 - A COMPLETE WET SPRINKLER FIRE PROTECTION SYSTEM PER NFPA 13 & 13R
 - 3 - FM STATE AND LOCAL APPROVALS BEFORE INSTALLATION PROCEEDS
 - 4 - AS-BUILT DRAWINGS

III - SPRINKLER HEADS

- A - HEAD LAYOUT SHOWN ON DRAWINGS SHALL BE MODIFIED AS REQUIRED TO MEET THE REQUIREMENTS OF NFPA 13 & 13R. MODIFICATIONS INCLUDE THE ADDITION/ DELETION OF HEADS OVER THAT WHICH IS SHOWN.

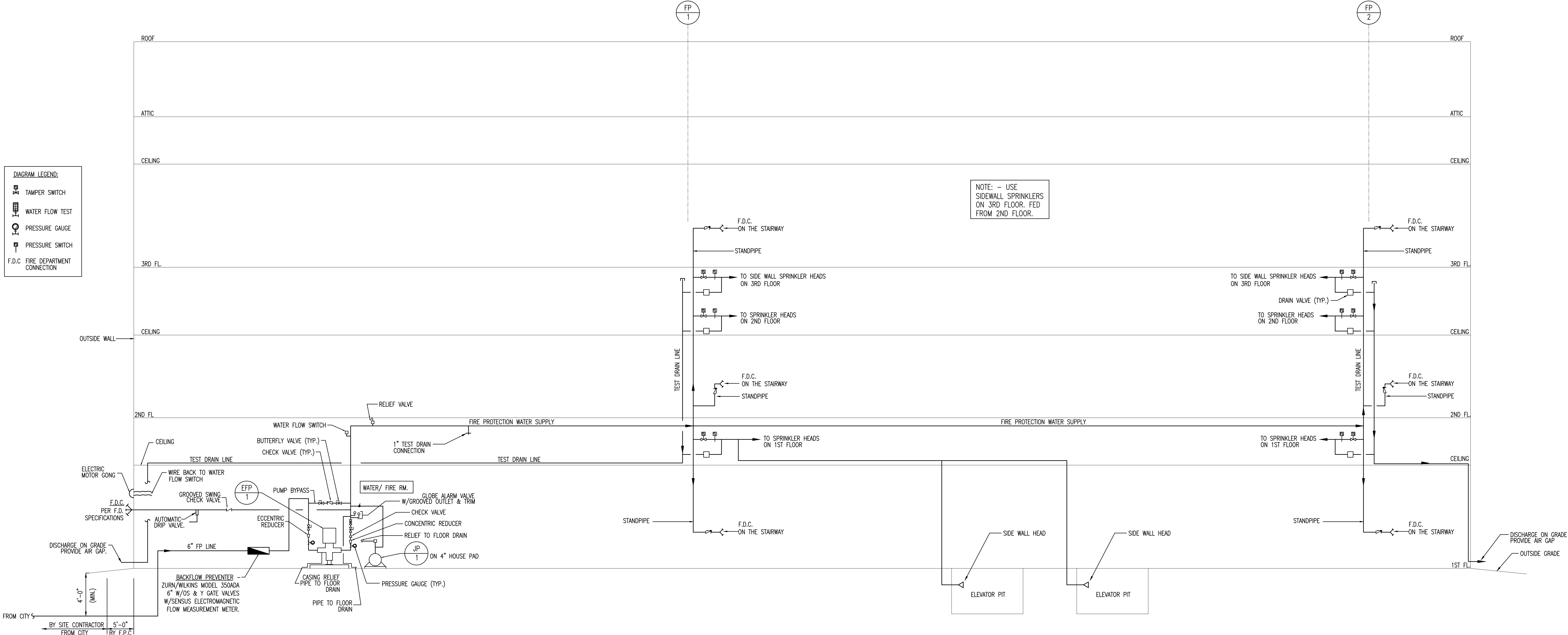
- B - STANDPIPES AND FLOOR VALVE ASSEMBLY TO BE PROVIDED PER IBC (NJ) LAHJ AND NFPA 13 & 13R.

SYSTEM PIPE:

- ALL ABOVE GROUND PIPE TO BE BLACK STEEL OR CPVC, WITH CASTMALEABLE IRON OR CPVC FITTING WITH JOINTS AS PER N.F.P.A.
- PIPE SHALL BE AS PER THE FOLLOWING SCHEDULE:

- CROSSINGS AND BULK PIPE = CPVC OR SCHEDULE 10.
- LINE PIPING = CPVC OR SCHEDULE 40.
- ALL CONCEALED PIPE 2-1/2" AND SMALLER TO BE CPVC PLASTIC PIPE AND CPVC PLASTIC FITTINGS.

- NO SPRINKLERS PROVIDED IN CLOSETS UNDER 24 SQ FT AS PER NFPA #13R.
- NO SPRINKLERS PROVIDED IN ATTIC AS PER NFPA #13R.
- NO SPRINKLERS PROVIDED IN BATHROOMS UNDER 55 SQ. FT. AS PER NFPA #13R.



FIRE PROTECTION RISER DIAGRAM

SCALE: N.T.S.

NOTE:

HEAD IN PIT AND TOP OF ELEVATOR SHAFT NOT REQUIRED IF ELEVATOR SHAFT, CAR AND CABLES ARE FIRE RATED PER ANSI STANDARDS; OBTAIN CERTIFICATION FROM ELEVATOR SUPPLIER.

FIRE PUMP SCHEDULE (IF REQUIRED)										
PUMP ID. NO.	ITEM	LOCATION	GPM	PSI	HP.	ROTATION	ELEC. CHAR.	MANUFACTURER	MODEL #	REMARKS
EFP	ELECTRIC FIRE PUMP	WATER METER ROOM	-	-	50	CLOCKWISE	-	AURORA	-	-
JP	JOCKEY PUMP	WATER METER ROOM	-	-	1	-	-	AURORA	-	-

NOTES:

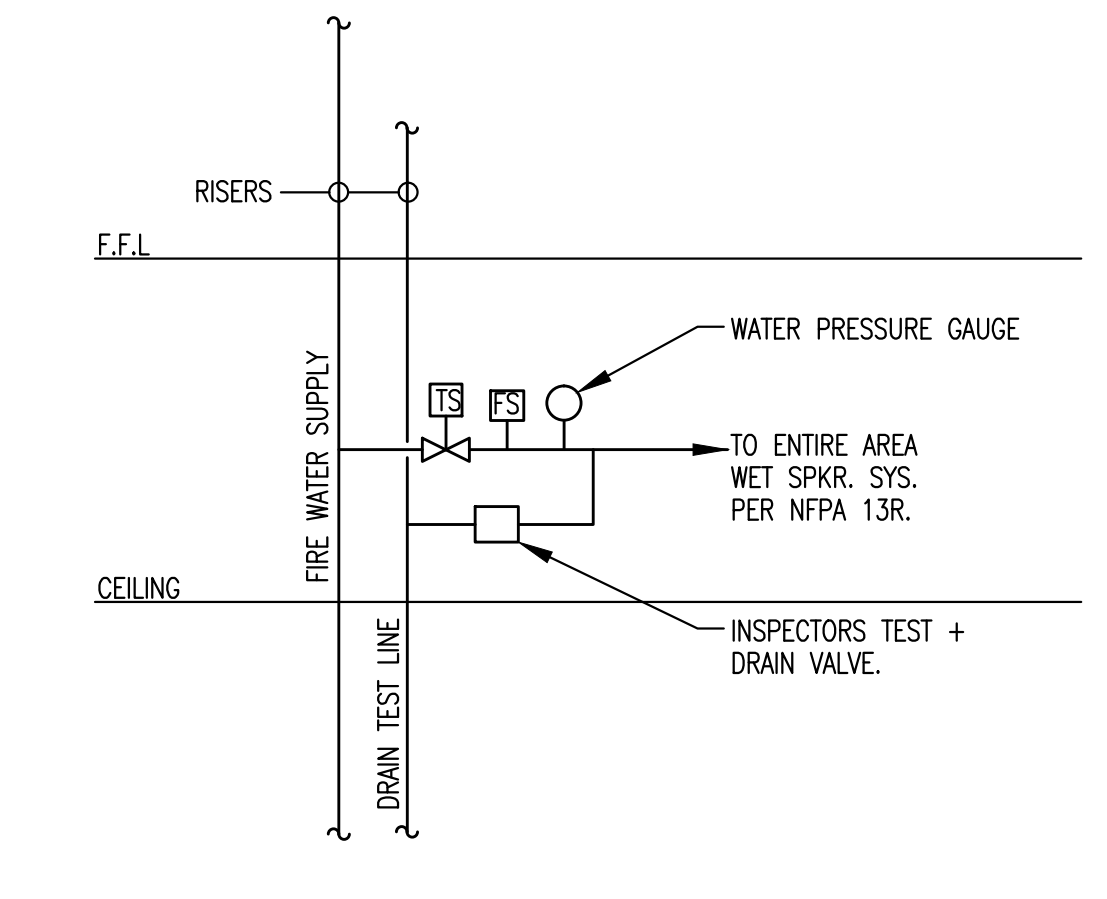
- FIRE PUMP SIZE AND RATING SHALL BE CONFIRMED BY SPRINKLER CONTRACTOR AFTER FLOW TEST RESULTS ARE AVAILABLE AND HYDRAULIC CALCULATIONS HAVE BEEN PERFORMED. SPRINKLER CONTRACTOR TO PROVIDE PRICE FOR ALTERNATE PACKAGED FIRE PUMP SYSTEM.
- FIRE PUMP & JOCKEY PUMP CONTROLLER TO BE U.L. LISTED FOR SERVICE ENTRANCE. STARTERS TO BE WEG/DELTA, OR "SOFT START".

FIRE PROTECTION-MINIMUM DESIGN STANDARDS	
SYSTEM DESIGN:	CLASSIFICATION: LIGHT HAZARD CLASSIFICATION; EXCEPT STORAGE ROOMS CLASSIFIED AS ORDINARY HAZARD.
MAX. AREA PER HEAD:	LIGHT HAZARD = 225 SF AS PER NFPA 13R ORDINARY HAZARD = 130 SF
MAX. SPACING:	15 FT LIGHT 11 FT ORDINARY
MINIMUM WATER SUPPLY:	AS PER HYDRAULIC CALCULATIONS.
MINIMUM RESIDUAL WATER PRESSURE:	AS DETERMINED BY HYDRAULIC CALCULATIONS. BASED ON FLOW TEST RESULTS.

GENERAL NOTE:

- ALL PIPING & APPURTENANCES TO BE INSTALLED IN ACCORDANCE W/ SEISMIC REQUIREMENTS OF IBC-2021 NJ EDITION.
- ANY SPRINKLER PIPE THAT PENETRATES A FIRE RATED ASSEMBLY SHALL BE FIRE STOPPED.

- DRAWING LEGEND:
- WET CONCEALED SPRINKLER HEAD
 - SIDEWALL WET HEAD
 - SIDEWALL DRY HEAD (FREEZE PROOF)
 - WET PENDENT/UPRIGHT SPRINKLER HEAD
- FDC FIRE DEPARTMENT CONNECTION
- FP - FIRE PROTECTION RISER
EFP - ELECTRIC FIRE PUMP
JP - JOCKEY PUMP
- ALL HEADS QUICK RESPONSE.



SPRINKLER PIPING SCHEMATIC - FLOOR CONTROL VALVE ASSEMBLY

SCALE: N.T.S.

NO.	DATE	DESCRIPTION

TWIN PONDS BUILDING 'C'
BLOCK 2173, LOT 21.01
HAMILTON TOWNSHIP, NEW JERSEY
FOR: THE KAMSON CORPORATION

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	NJ AJ 12527
	NY 05666-1
	NC 8884
	PA RA-012068-X
	SC 6147
	VA 0401 012300
	WA 31975
	WI 1418212
	WV 4638

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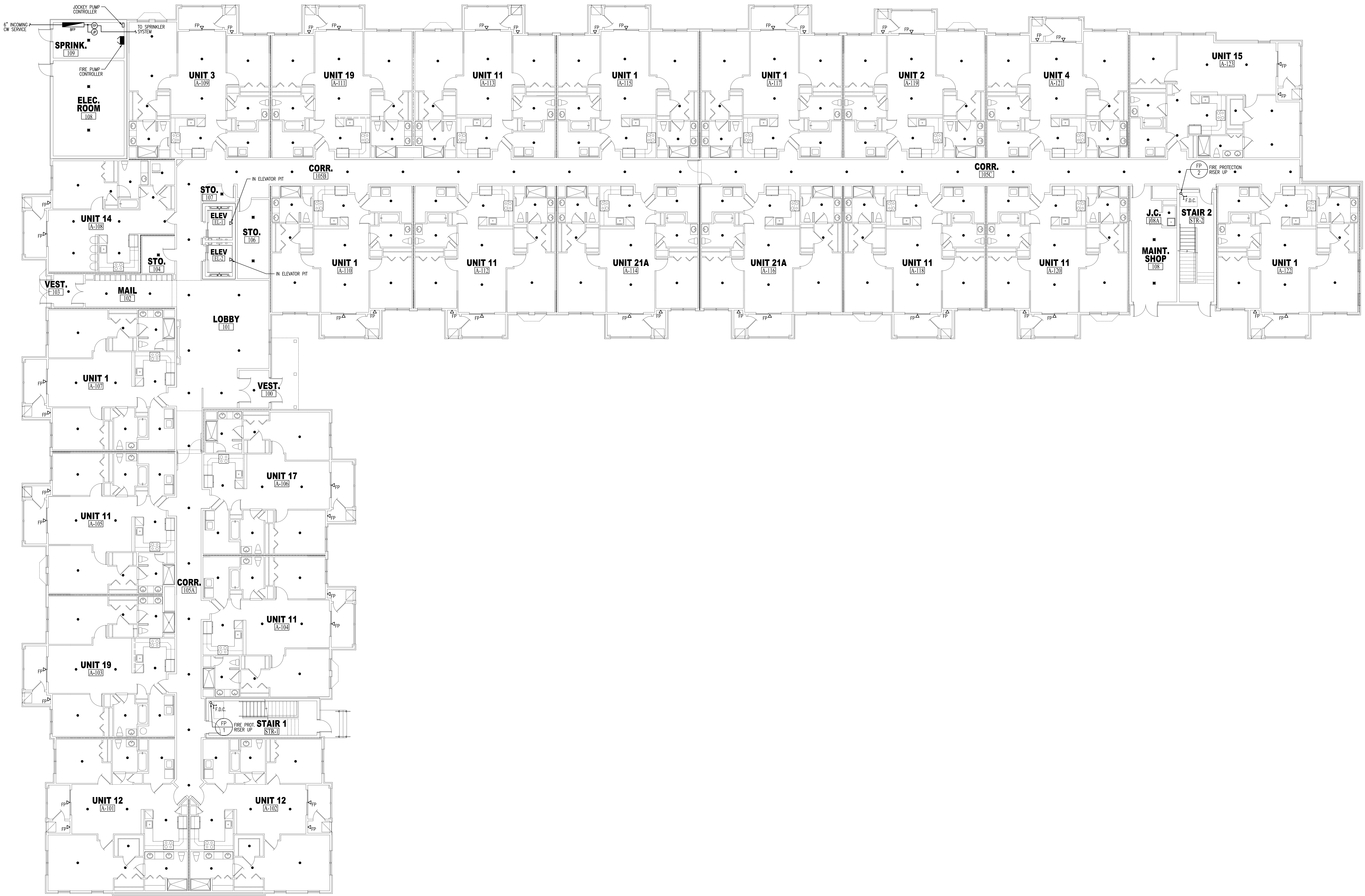
PROJECT TITLE: FIRE PROTECTION SCHEDULES & SPECIFICATIONS

DATE: 07/23/24 SHEET NO.:
PROJ. NO.: 20045 DRAWING NO.: FP1.00
SCALE: AS NOTED

CONSULTING ENGINEERS
200 HIGHPOINT DRIVE, SUITE 214
CHALFONT, PA 18914
TEL (610) 712-0100
EMAIL: jeschade@eschadepc.com

05/20/2024

NJ PE LICENSE #: 18513



FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

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**TWIN PONDS
 BUILDING 'C'
 BLOCK 2173, LOT 21.01
 HAMILTON TOWNSHIP, NEW JERSEY**
 For:
THE KAMSON CORPORATION

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	4638

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**FIRE PROTECTION
 FIRST
 FLOOR PLAN**

DATE: 07/23/24 SHEET NO.
 PROJ. NO. 202045 **FP2.00**
 SCALE: AS NOTED

05/20/2024

NJ PE LICENSE # 18513

2018-PP02.dwg 05/20/24 08:55
 SHEET No. 2 OF 4 DRAWER_X



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

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BLOCK 2173, LOT 21.01
HAMILTON TOWNSHIP, NEW JERSEY
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DRAWN	J.F.V.	DATE	02/23/24
CHECKED	J.E.S.	PROJ. NO.	20045
APPROVED	J.E.S.	SCALE	AS NOTED

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05/20/2024

N.J. FIRE LICENSE # 18513

DATE	02/23/24	SHEET NO.	FP3.00
PROJ. NO.	20045	SHEET TITLE	
SCALE	AS NOTED	FIRE PROTECTION SECOND FLOOR PLAN	



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

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TWIN PONDS
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 BLOCK 2173, LOT 21.01
 HAMILTON TOWNSHIP, NEW JERSEY
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SHEET TITLE:
**FIRE PROTECTION
 THIRD
 FLOOR PLAN**

DATE: 07/23/24 SHEET NO.
 PROJ. NO. 200245 **FP4.00**
 SCALE: AS NOTED

05/20/2024

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