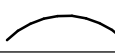





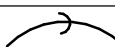

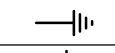

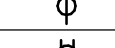

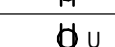



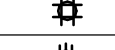

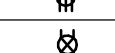



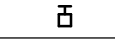

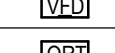

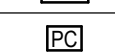

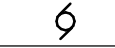

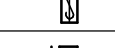

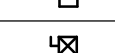











ELECTRICAL SYMBOLS LEGEND			
	CONDUIT CONCEALED IN CEILING OR WALL (1 HOT, 1 NEUTRAL, 1 GROUND UNLESS NOTED OTHERWISE)		LOOKABLE GUARD
	CONDUIT CONCEALED IN FLOOR SLAB		JUNCTION BOX
	EXPOSED CONDUIT		SWITCH - SINGLE POLE
	HOME RUN - ARROW INDICATES OKT., LINES INDICATE WIRES		SWITCH - 3-WAY
	GROUND WIRE		SWITCH - 4-WAY
	GROUNDING ROD		SWITCH - MOTION
	SINGLE RECEPTACLE (20 AMP UNLESS NOTED)		CILING MOUNTED, MOTION SENSING SWITCH
	DUPLEX RECEPTACLE (20 AMP UNLESS NOTED)		LIGHT FIXTURE AND TYPE
	DUPLEX RECEPTACLE WITH USB OUTLETS		EMERGENCY LIGHT FIXTURE WITH BATTERY PACK
	SWITCHED DUPLEX RECEPTACLE		FIXTURE ON LIFE SAFETY BRANCH OF EMERGENCY SYSTEM
	FOURPLEX RECEPTACLE		EXIT LIGHT (CEILING OR WALL MOUNTED)
	208 OR 240 VOLT RECEPTACLE (20 AMP UNLESS NOTED)		FLUSH PANELBOARD (LIGHT & RECEPTACLES)
	GROUND FAULT INTERRUPTER (GFI) DUPLEX RECEPTACLE		SURFACE PANELBOARD (LIGHT & RECEPTACLES)
	TELEDATA OUTLET		DISTRIBUTION PANEL OR SWITCH-BOARD
	PUSHBUTTON		AC DEVICE LOCATED ABOVE COUNTER
	VARIABLE FREQUENCY DRIVE		AFF ABOVE FINISHED FLOOR
	VERRIDE TIMER		D DIMMER
	PHOTOCELL		M MOTION SENSING
	MOTOR		E INDICATES EXISTING DEVICE
	FUSIBLE SWITCH (BUSSMAN SSU)		EDF ELECTRIC DRINKING FOUNTAIN
	DISCONNECT SWITCH (D.S.)		NL NIGHTLIGHT FIXTURE, WIRED HOT
	COMBINATION MOTOR STARTER (CMS)		WP WEATHERPROOF
	RELAY		AFCI ARC FAULT CIRCUIT INTERRUPTER
	THERMOSTAT		□ CONNECT NEW TO EXISTING
	CO SENSOR		

NOTES: ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS.

REFER TO MECHANICAL SYMBOLS LEGEND FOR MECHANICAL SYMBOLS THAT MAY BE SHOWN ON ELECTRICAL PLANS.

↳ 4X BACKBOX WITH SINGLE GANG PLASTER RING AND A 1 1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.

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




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


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AUDIO/VISUAL LEGEND		
SYMBOL	DESCRIPTION	REMARKS
▼ AV	AUDIO/VISUAL OUTLET	1
 AV	AUDIO/VISUAL FLOORBOX/POKE-THRU (REFER TO ELECTRICAL DRAWINGS)	
 TS	TOUCH SCREEN CONTROL PANEL	
	OVERHEAD PROJECTOR	
 S	AUDIO/VISUAL SPEAKER	
 V	VOLUME CONTROL	
 M	MICROPHONE	
---	EMT CONDUIT BY E/C (1" UNLESS NOTED OTHERWISE)	2
---	EMT SLEEVE BY E/C (2" UNLESS NOTED OTHERWISE)	2
	DUPLEX RECEPTACLE	
	FOURPLEX RECEPTACLE	
---	AUDIO/VISUAL CABLING	3
AFB	ABOVE FINISHED FLOOR	
AV/C	AUDIO/VISUAL CONTRACTOR	
T/C	TELECOMMUNICATION CONTRACTOR	
E/C	ELECTRICAL CONTRACTOR	
G/C	GENERAL CONTRACTOR	
AC	DEVICE LOCATED ABOVE COUNTER	
SM	SINGLEMODE FIBER	
MM	MULTIMODE FIBER	

PAGING LEGEND		
SYMBOL	DESCRIPTION	REMARKS
	PAGING SYSTEM	
	CEILING PAGING SPEAKER	
	WALL-MOUNTED PAGING SPEAKER	
	PAGING HORN	
	VOLUME CONTROL	

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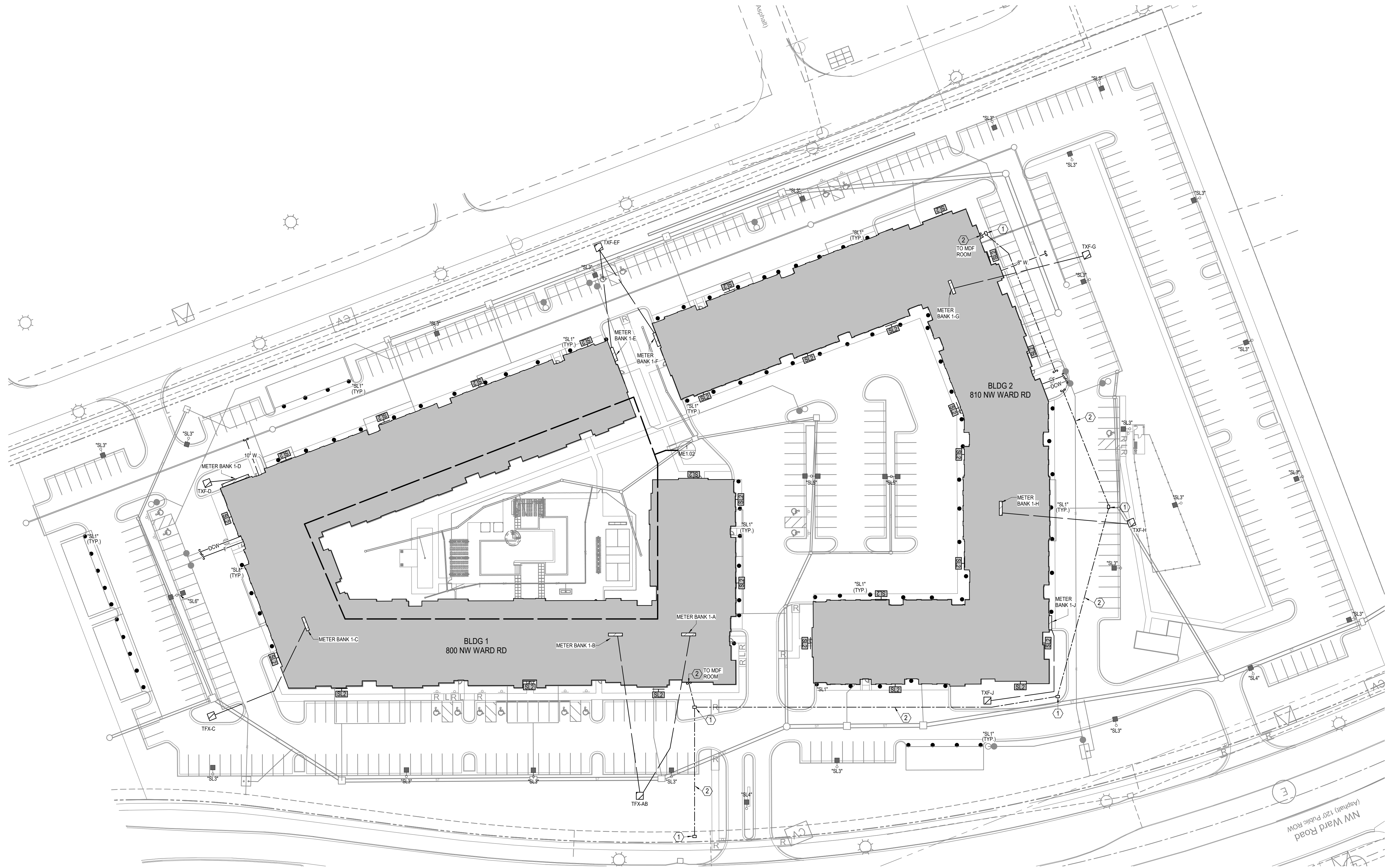
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JOB NO. 705921 DATE 03.15.2023

SHEET NO.

ME0.01



1 SITE PLAN
MECH/ELEC.
1" = 40'-0"

- NOTES:**
 - SEE CIVIL, ARCHITECTURAL AND LANDSCAPE DRAWING FOR FURTHER INFORMATION AND WORK.
 - NOTIFY UTILITY PROVIDERS PRIOR TO ANY EXCAVATION, TRENCHING OR GRADING TO MARK UTILITIES.
 - PROVIDE ALL UTILITY PROVIDER REQUIREMENTS WITH REGARDS TO INTERFACING WITH THEIR WORK AND INCLUDE ALL ITEMS REQUIRED FOR PROPER INSTALLATION.
 - TRANSFORMER AND PRIMARY LOCATIONS ARE AS PREFERRED AND NEED VERIFICATION WITH THE PROVIDER AS TO FINAL LOCATIONS BASED ON THEIR DESIGN AND CONTRACTOR REQUIREMENTS.
 - ALL SITE LIGHTING CIRCUITS ROUTE THROUGH PHOTOCELL AND HAVE (3) #10 WIRES UNLESS NOTED OTHERWISE.
- LEGEND:**
 - 24"Wx36"Lx30"D QUAZITE HANDHOLE FOR VOICE/DATA PROVIDER CABLING. VERIFY SIZE, QUANTITY AND LOCATION WITH UTILITY PROVIDER(S) AND CIVIL PLANS
 - (3) 4"C. WITH PULL STRINGS FOR VOICE/DATA PROVIDER CABLING AT 36" MINIMUM BELOW GRADE.

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LSA PROJECT NO. 2204061

JOB NO.
705921
DRAWN BY
LSA CAD
4/11/2023
CITY COMMENTS
SHEET NAME
SITE PLAN

SHEET NO.

ME1.01

- NOTES:
1.

SEE CIVIL, ARCHITECTURAL AND LANDSCAPE DRAWING FOR FURTHER INFORMATION AND WORK.
2.

NOTIFY UTILITY PROVIDERS PRIOR TO ANY EXCAVATION, TRENCHING OR GRADING TO MARK UTILITIES.
3.

PROVIDE ALL UTILITY PROVIDER REQUIREMENTS WITH REGARDS TO INTERFACING WITH THEIR WORK AND INCLUDE ALL ITEMS REQUIRED FOR PROPER INSTALLATION.
4.

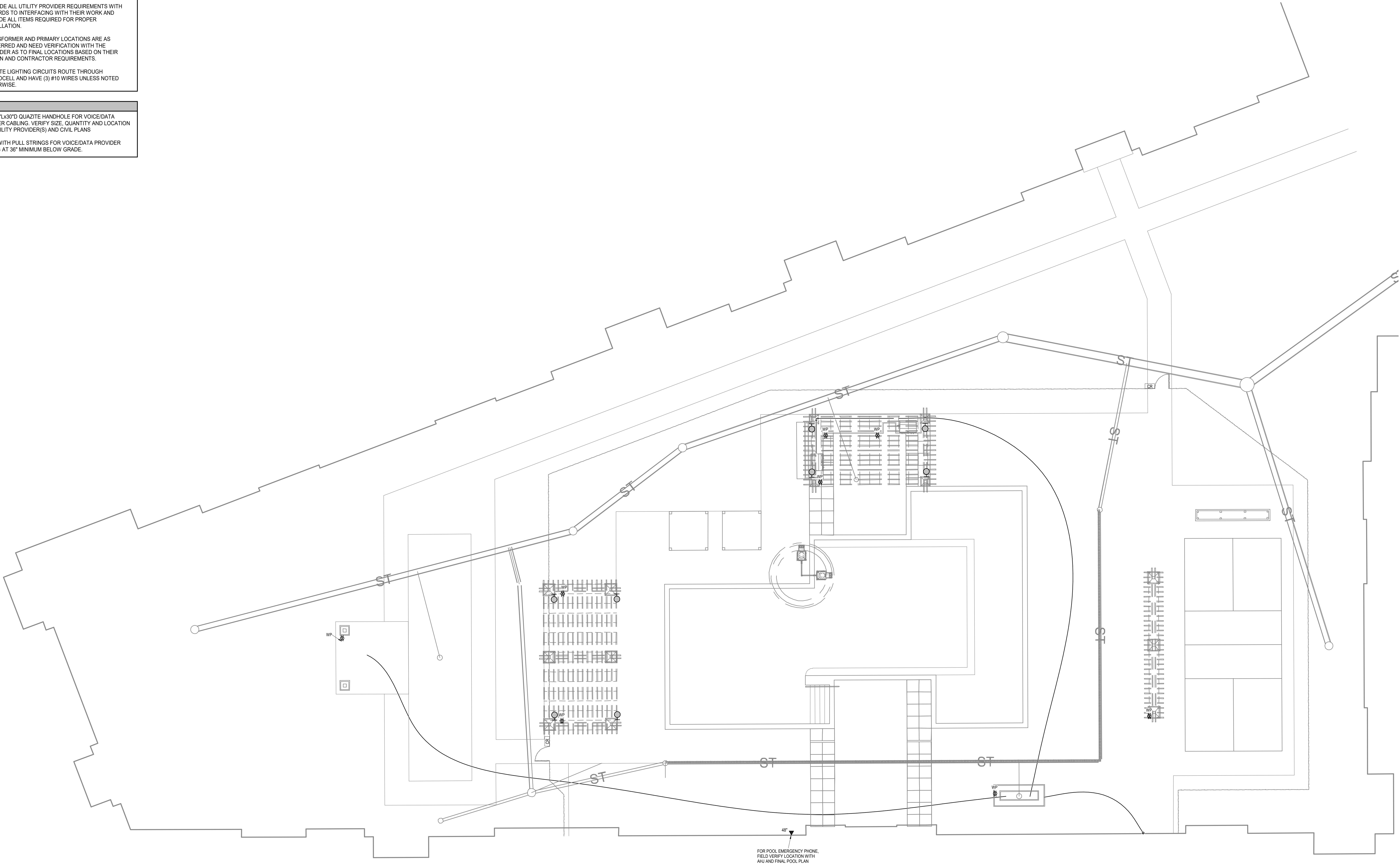
TRANSFORMER AND PRIMARY LOCATIONS ARE AS PREFERRED AND NEED VERIFICATION WITH THE PROVIDER AS TO FINAL LOCATIONS BASED ON THEIR DESIGN AND CONTRACTOR REQUIREMENTS.
5.

ALL SITE LIGHTING CIRCUITS ROUTE THROUGH PHOTOCELL AND HAVE (3) #10 WIRES UNLESS NOTED OTHERWISE.

- LEGEND:
- ①

24"Wx36"Lx30"D QUAZITE HANDHOLE FOR VOICE/DATA PROVIDER CABLING. VERIFY SIZE, QUANTITY AND LOCATION WITH UTILITY PROVIDER(S) AND CIVIL PLANS
- ②

(3) 4"C. WITH PULL STRINGS FOR VOICE/DATA PROVIDER CABLING AT 36" MINIMUM BELOW GRADE.



1 PARTIAL SITE PLAN
MECH./ELEC.
1/8" = 1'-0"

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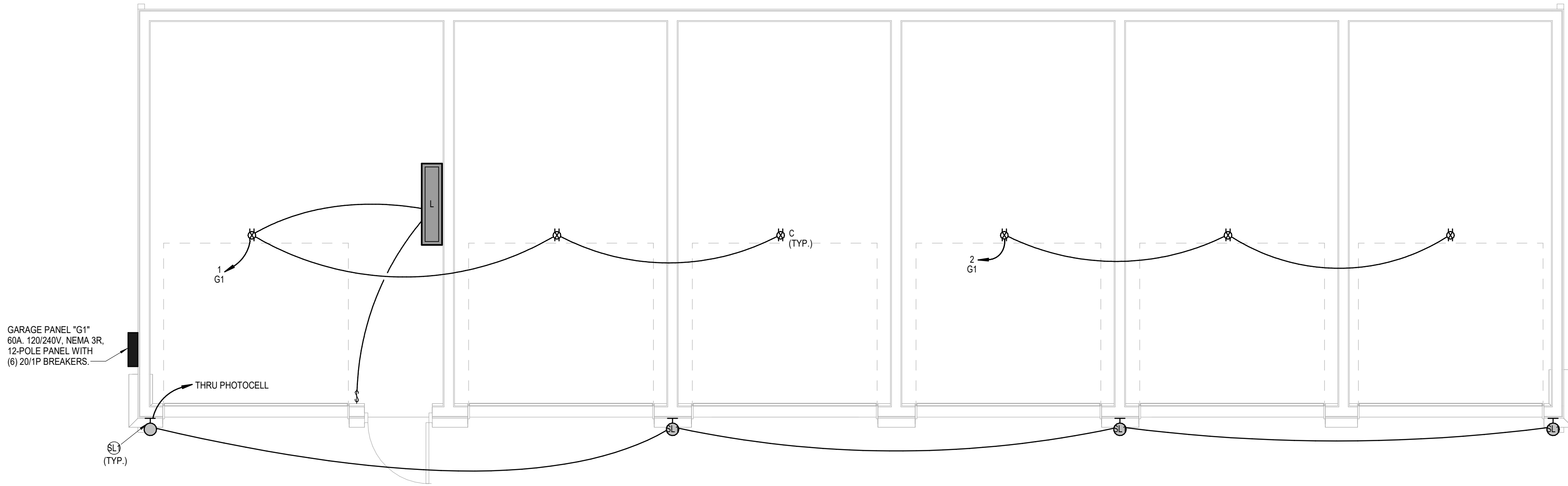
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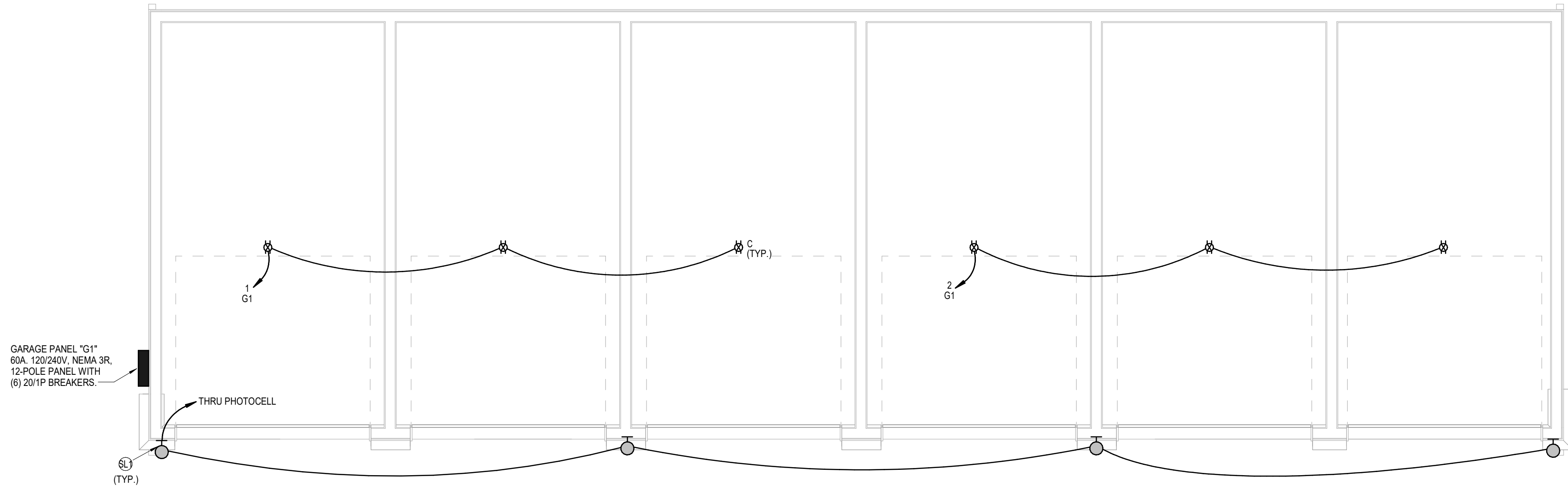
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PARTIAL SITE PLAN

SHEET NO.

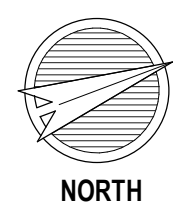
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1 ACCESSIBLE GARAGE FLOOR PLAN
ELECTRICAL
1/4" = 1'-0"



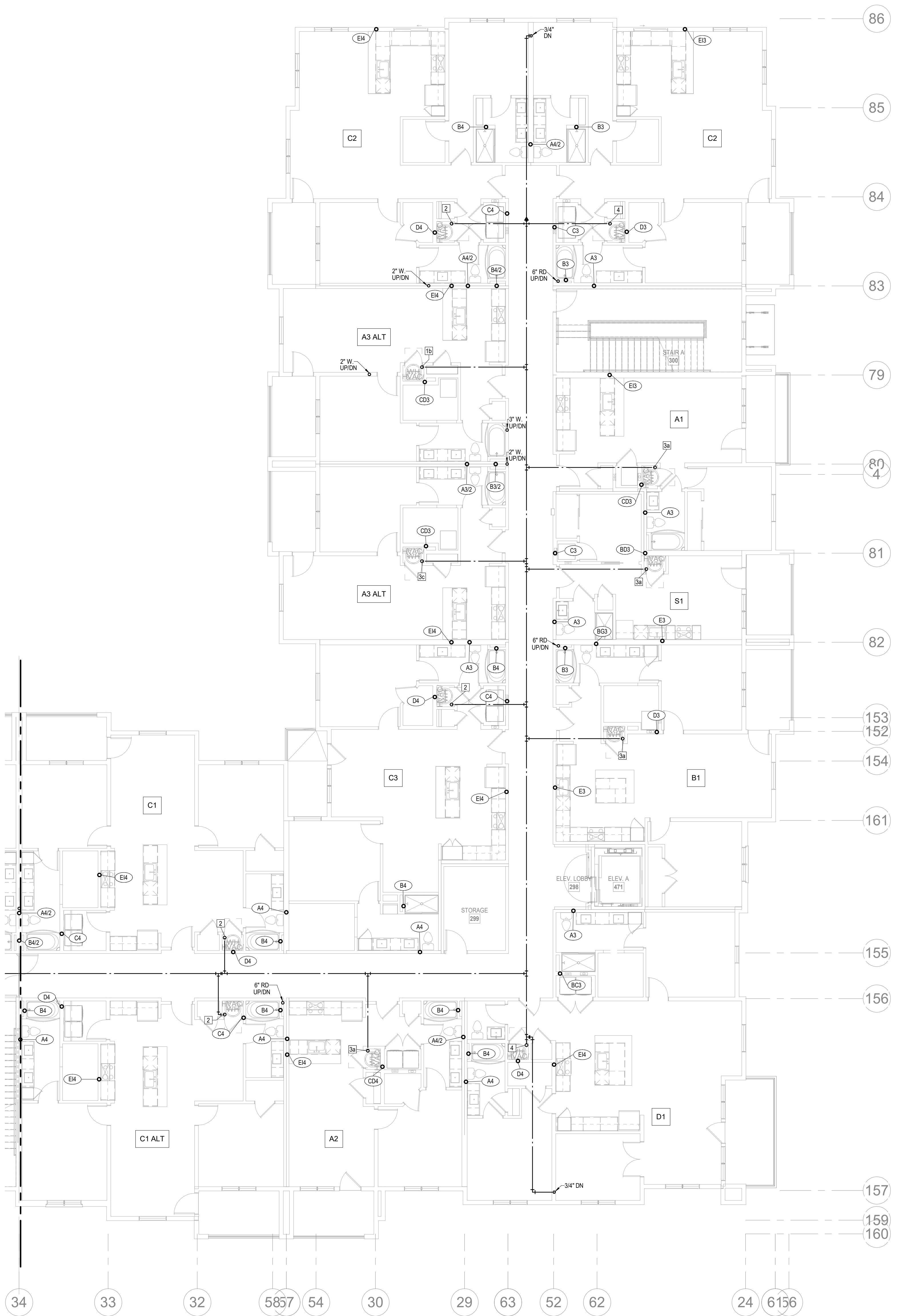
2 GARAGE FLOOR PLAN
ELECTRICAL
1/4" = 1'-0"



PLUMBING
1/8" = 1'-0"

- 03/15/2023

P1.01



1 2ND FLOOR - SEGMENT A
PLUMBING
1/8" = 1'-0"

- NOTES:
1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
 2. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT 1/4" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
 3. ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
 4. ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
 5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
 6. ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKES.
 7. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
 8. ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
 9. SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
 10. REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT. ALL FLOOR DRAINS ARE 2" TYPE 1 UNLESS NOTED OTHERWISE.
 11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
 12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
 13. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA. THIS INCLUDES A PROTECTED OR DRY SYSTEM FOR ANY UNHEATED AREAS. NO PIPE SHALL BE EXPOSED TO FREEZING TEMPERATURES.

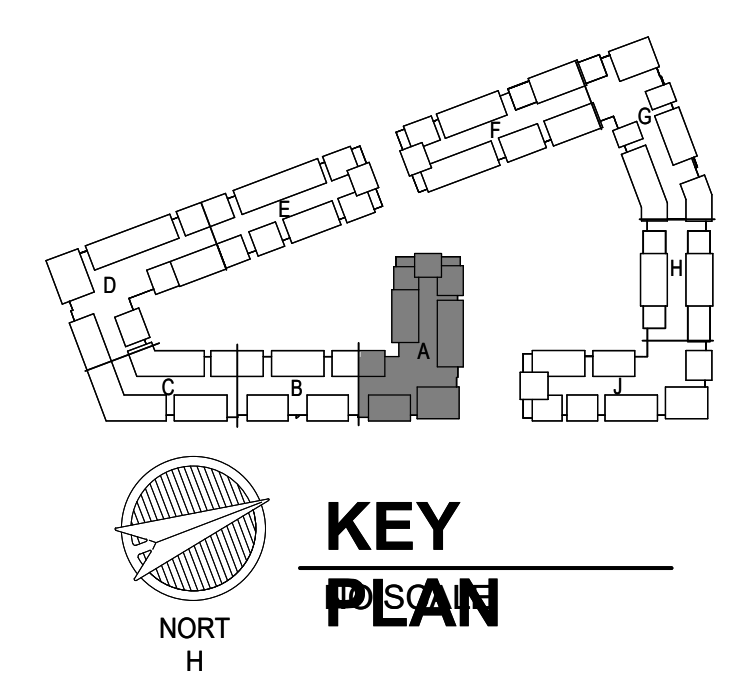
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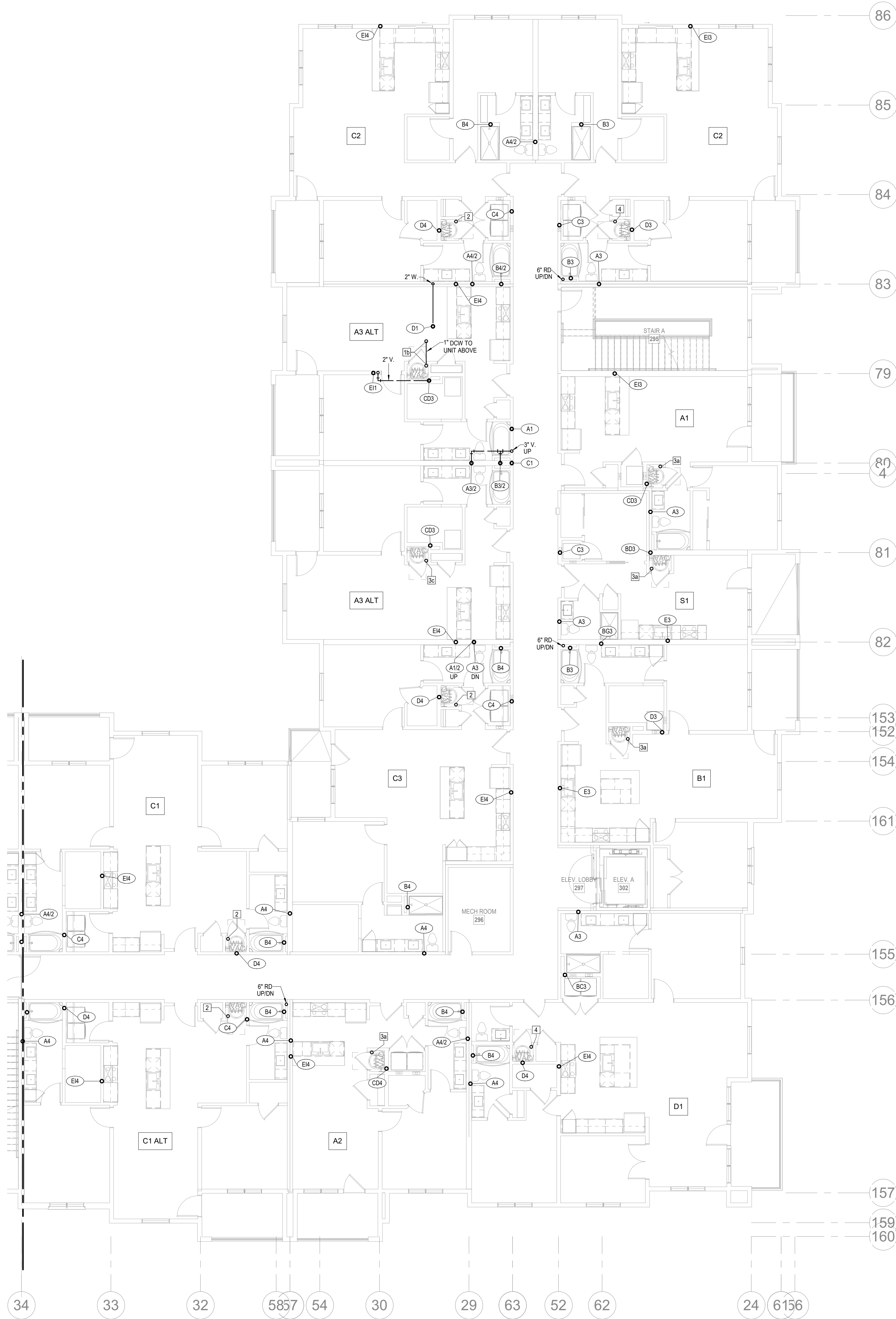
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P1.02



1 3RD FLOOR - SEGMENT A
PLUMBING
1/8" = 1'-0"

- NOTES:**
1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
 2. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT 1/4" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
 3. ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
 4. ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
 5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
 6. ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKES.
 7. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
 8. ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
 9. SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
 10. REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT. ALL FLOOR DRAINS ARE 2" TYPE 1 UNLESS NOTED OTHERWISE.
 11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
 12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
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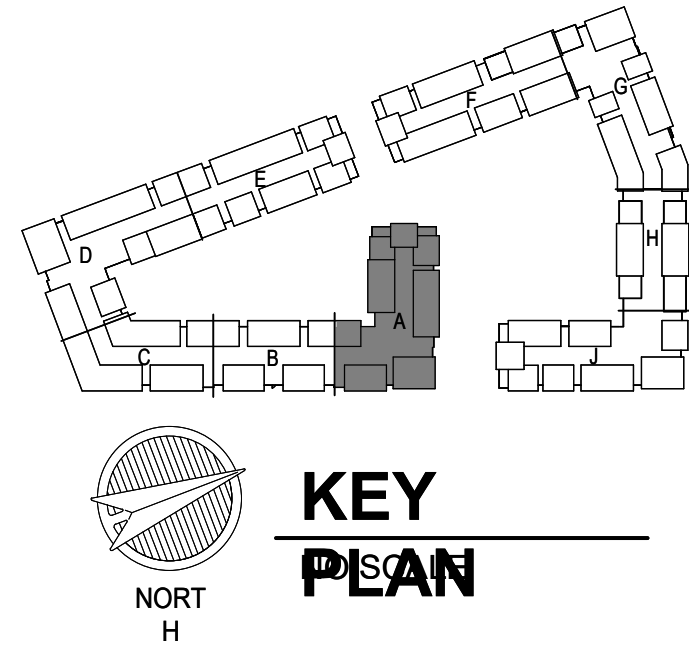
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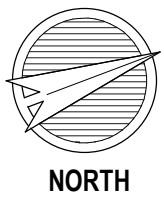
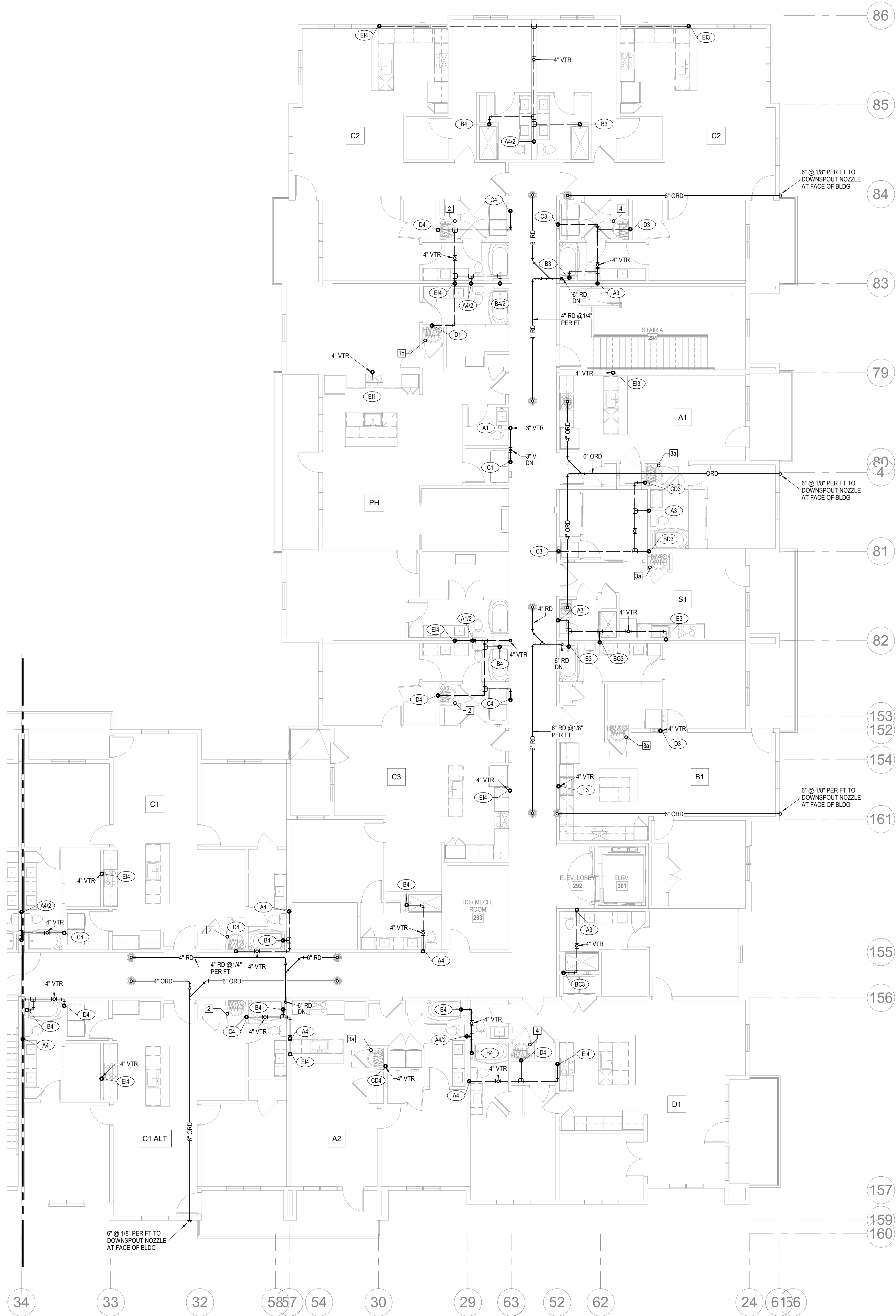


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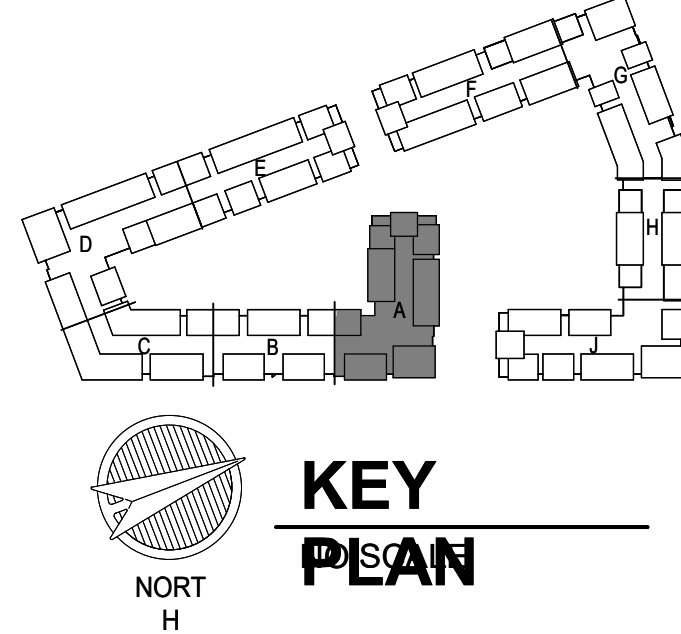
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SEGMENT A - 3RD FLOOR - PLUMBING
SHEET NO.

P1.03



1 4TH FLOOR - SEGMENT A
PLUMBING
1/8" = 1'-0"

- NOTES:**
1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
 2. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT 1/4" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
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 9. SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
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 12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
 13. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA. THIS INCLUDES A PROTECTED OR DRY SYSTEM FOR ANY UNHEATED AREAS. NO PIPE SHALL BE EXPOSED TO FREEZING TEMPERATURES.



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LSA PROJECT NO. 2204061

JOB NO. 705921
DRAWN BY LSA CAD
4/11/2023
CITY COMMENTS
SEGMENT A - 4TH FLOOR - PLUMBING
SHEET NO.

DATE 03.15.2023
SHEET NAME
P1.04

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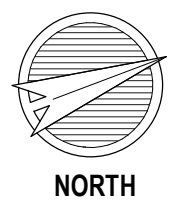
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03/15/2023



1 ROOF PLAN - SEGMENT A
PLUMBING
1/8" = 1'-0"

- NOTES:**
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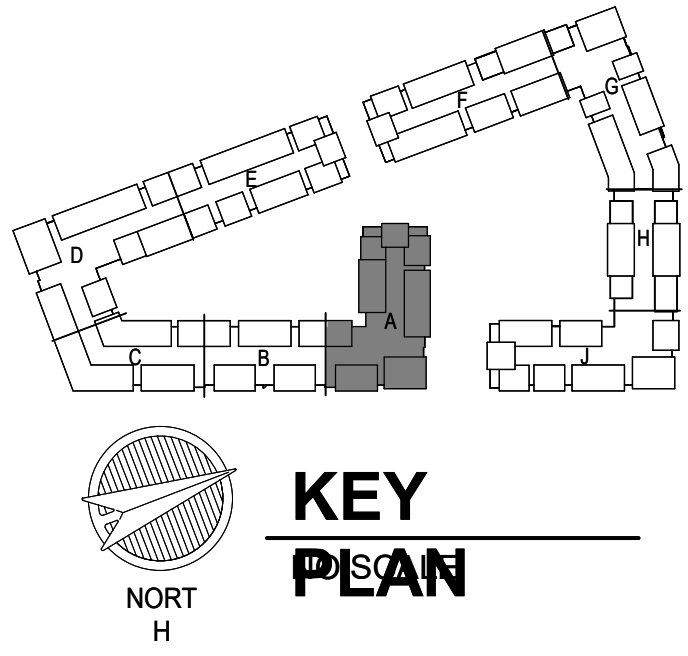
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JOB NO. 705921
DATE 03.15.2023

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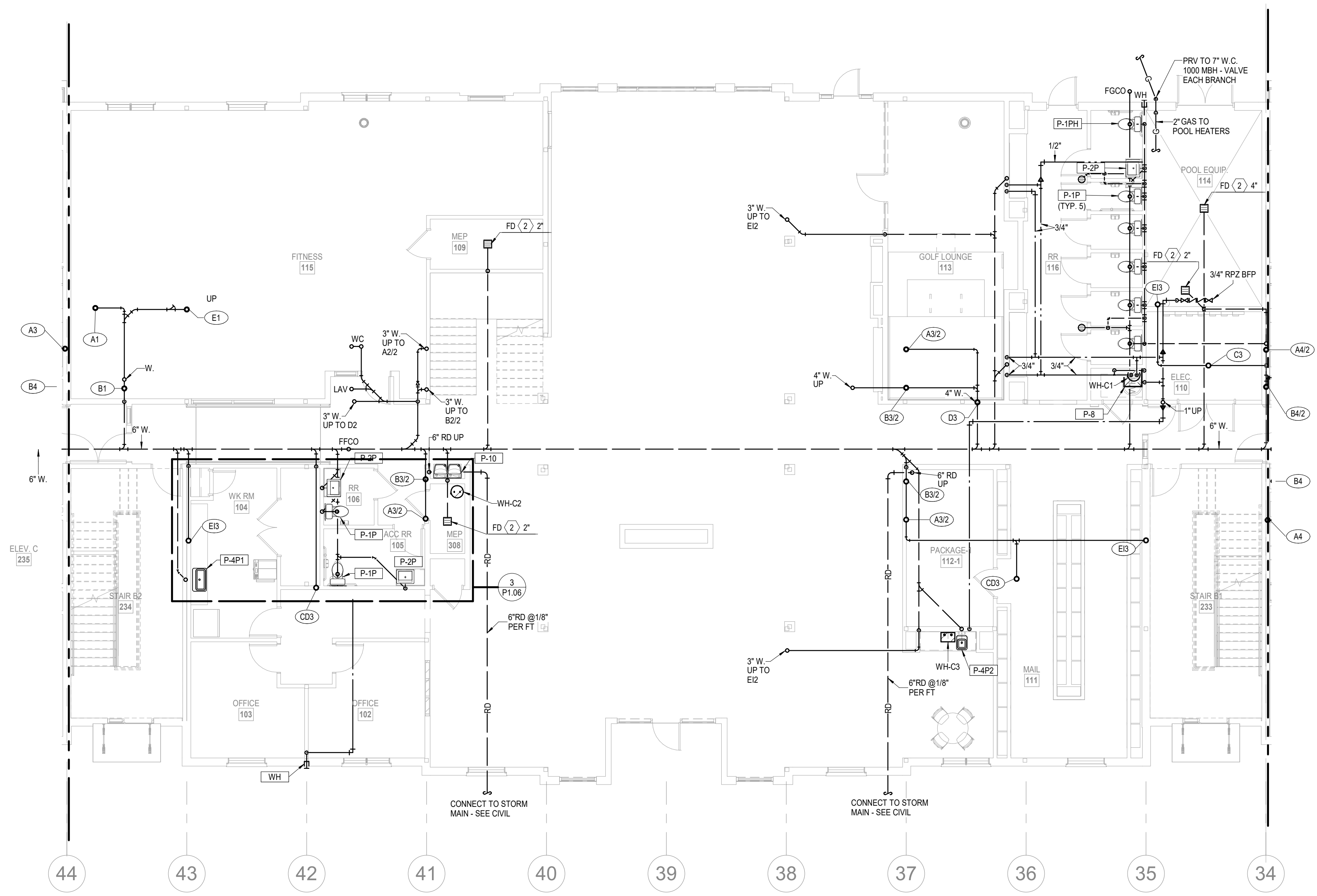
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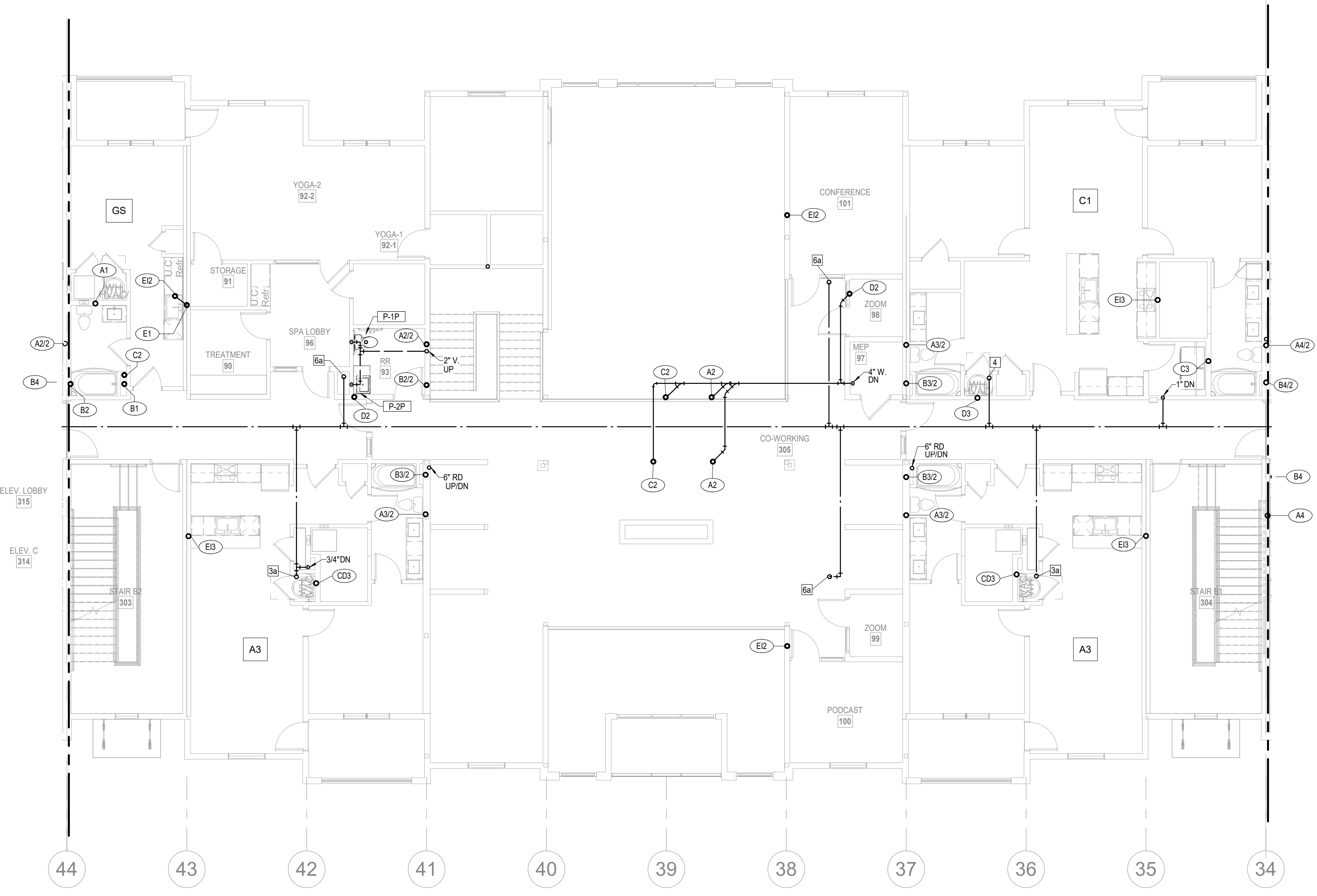
SEGMENT A - ROOF PLAN - PLUMBING

SHEET NO.

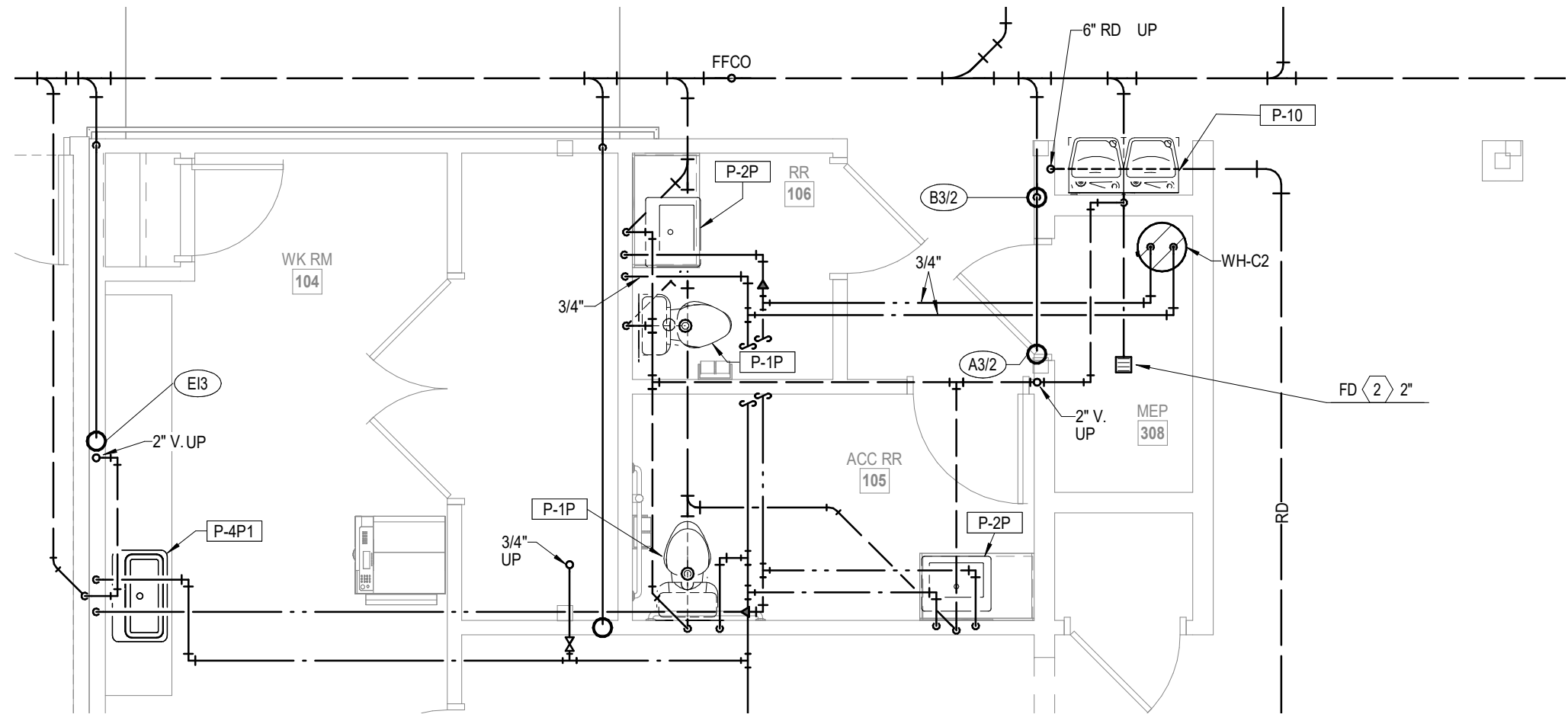
P1.05



1 1ST FLOOR - SEGMENT B
PLUMBING
1/8" = 1'-0"



2 2ND FLOOR - SEGMENT B
PLUMBING
1/8" = 1'-0"



3 PARTIAL PLAN - SEGMENT B
PLUMBING
1/4" = 1'-0"

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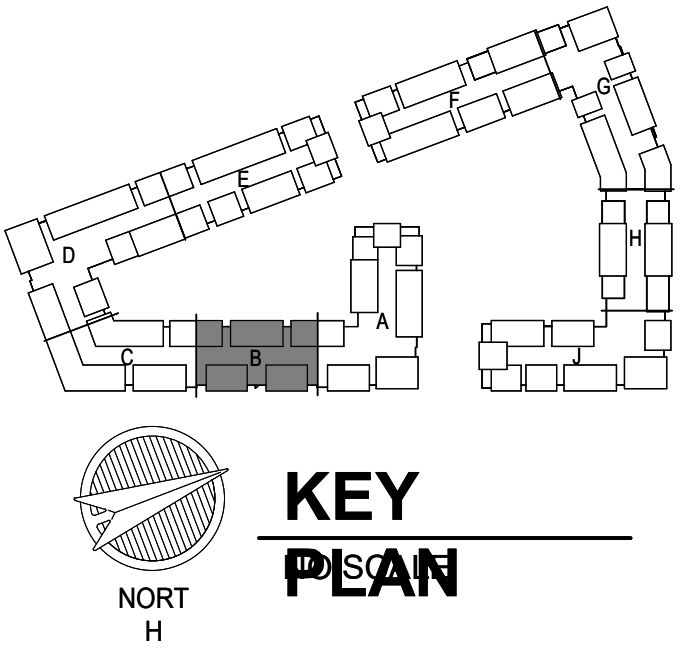
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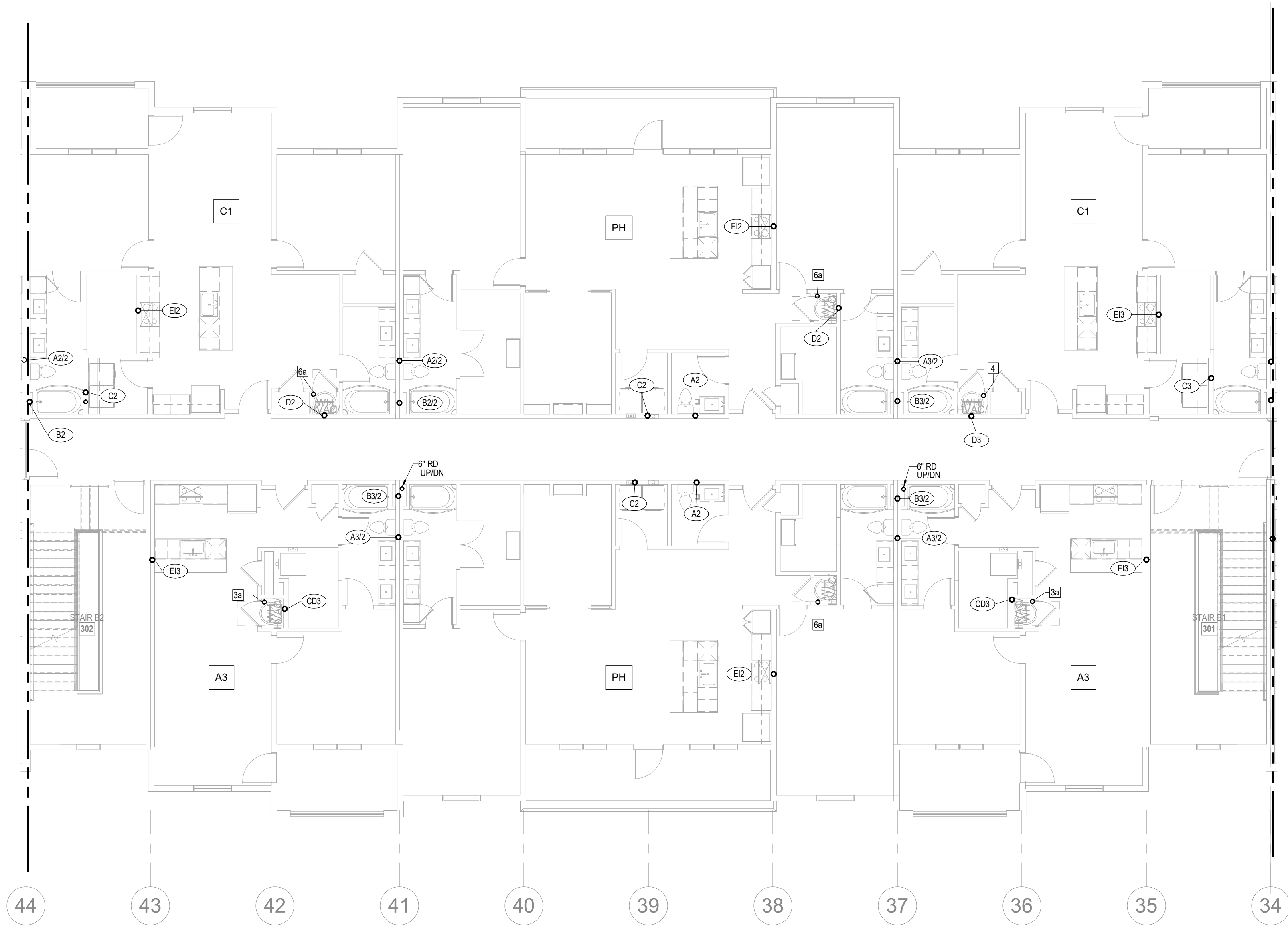
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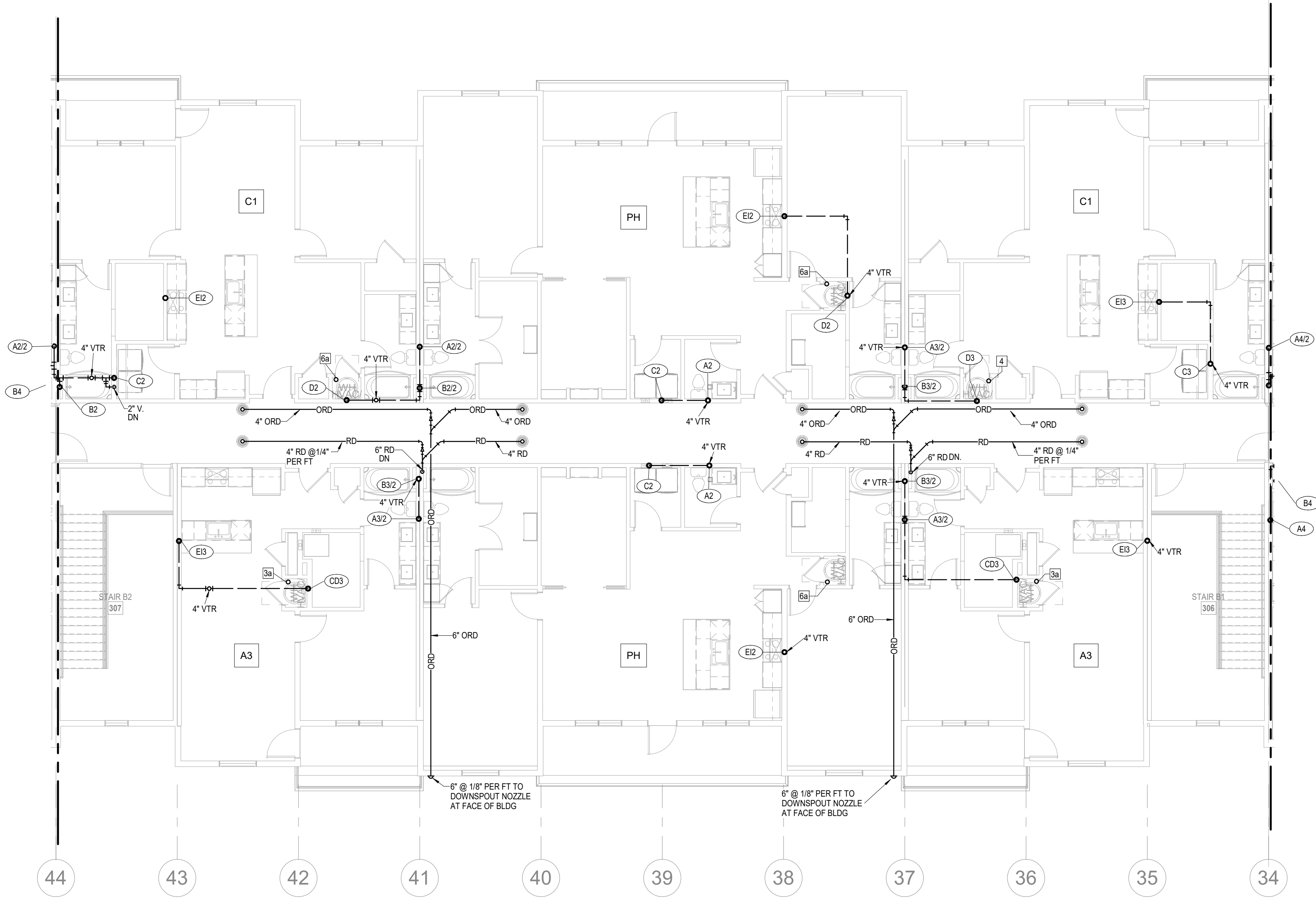
SHEET NAME
CITY COMMENTS

SEGMENT B - 1ST & 2ND
FLOOR - PLUMBING

SHEET NO.
P1.06



1 3RD FLOOR - SEGMENT B
PLUMBING
1/8" = 1'-0"



2 4TH FLOOR - SEGMENT B
PLUMBING
1/8" = 1'-0"

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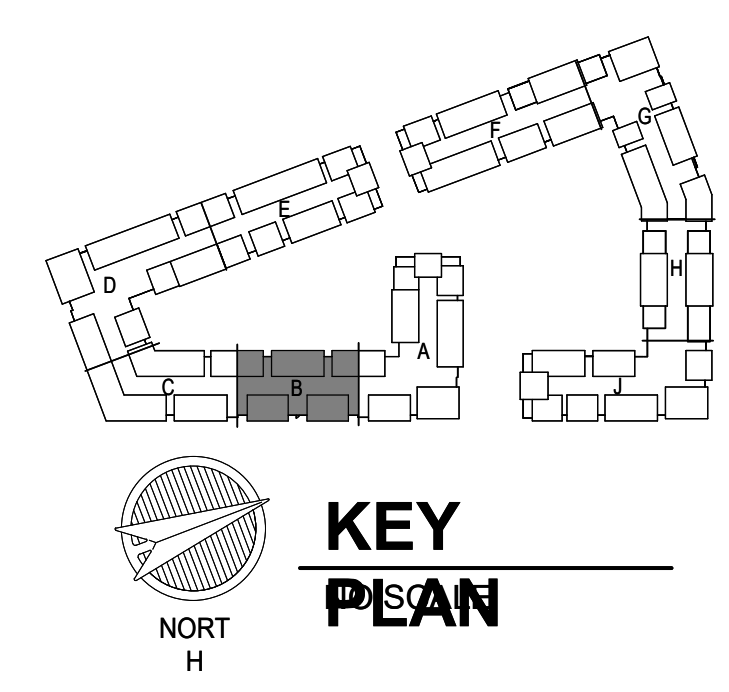
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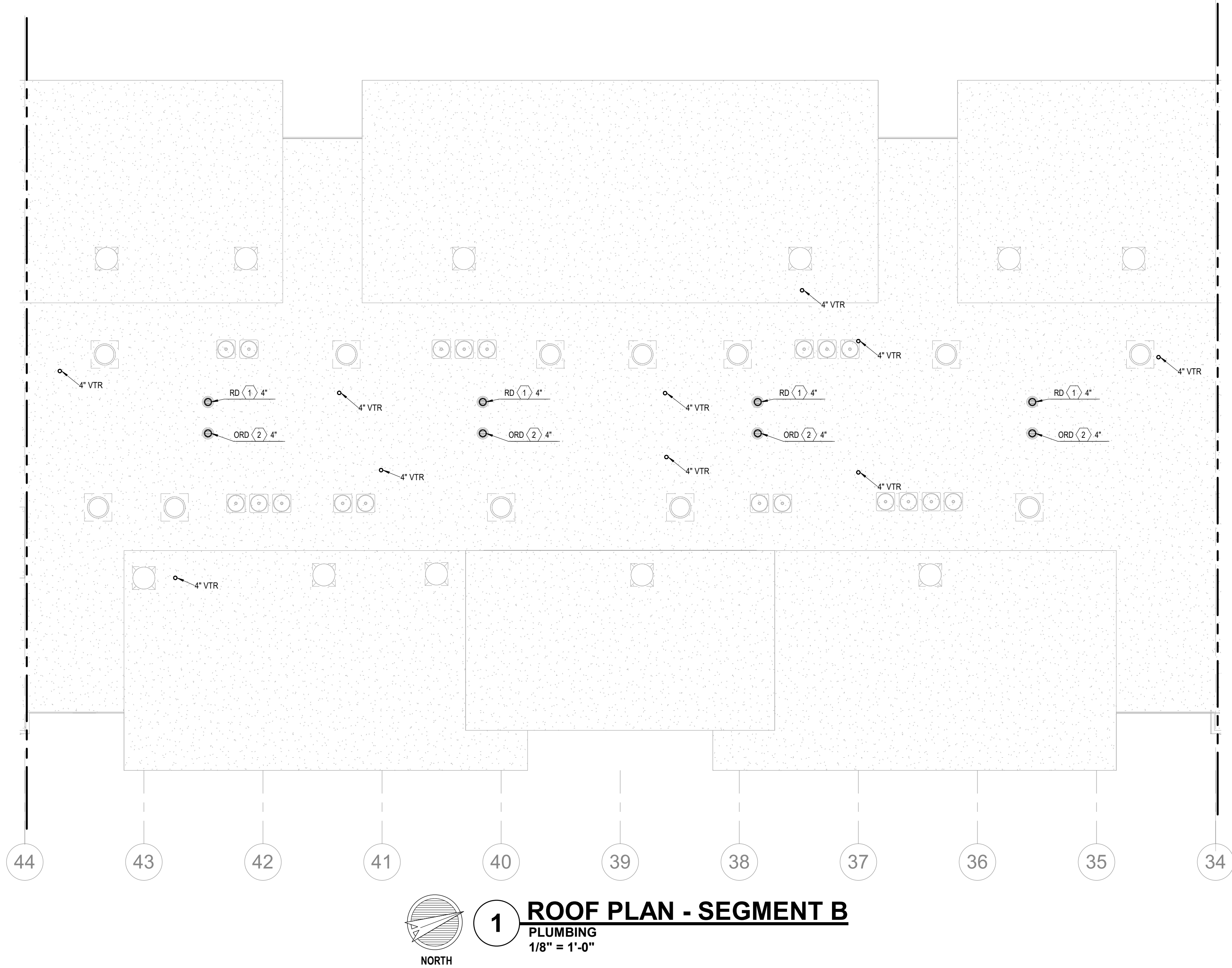


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LSA PROJECT NO. 2204061

JOB NO. 705921
DRAWN BY LSA CAD
4/11/2023
CITY COMMENTS
SEGMENT B - 3RD & 4TH FLOOR - PLUMBING
SHEET NO.

DATE 03.15.2023

P1.07



- NOTES:
1.

COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2.

ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT 1/4" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
3.

ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
4.

ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
5.

CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
6.

ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKES.
7.

THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
8.

ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
9.

SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
10.

REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT. ALL FLOOR DRAINS ARE 2" TYPE 1 UNLESS NOTED OTHERWISE.
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ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
12.

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13.

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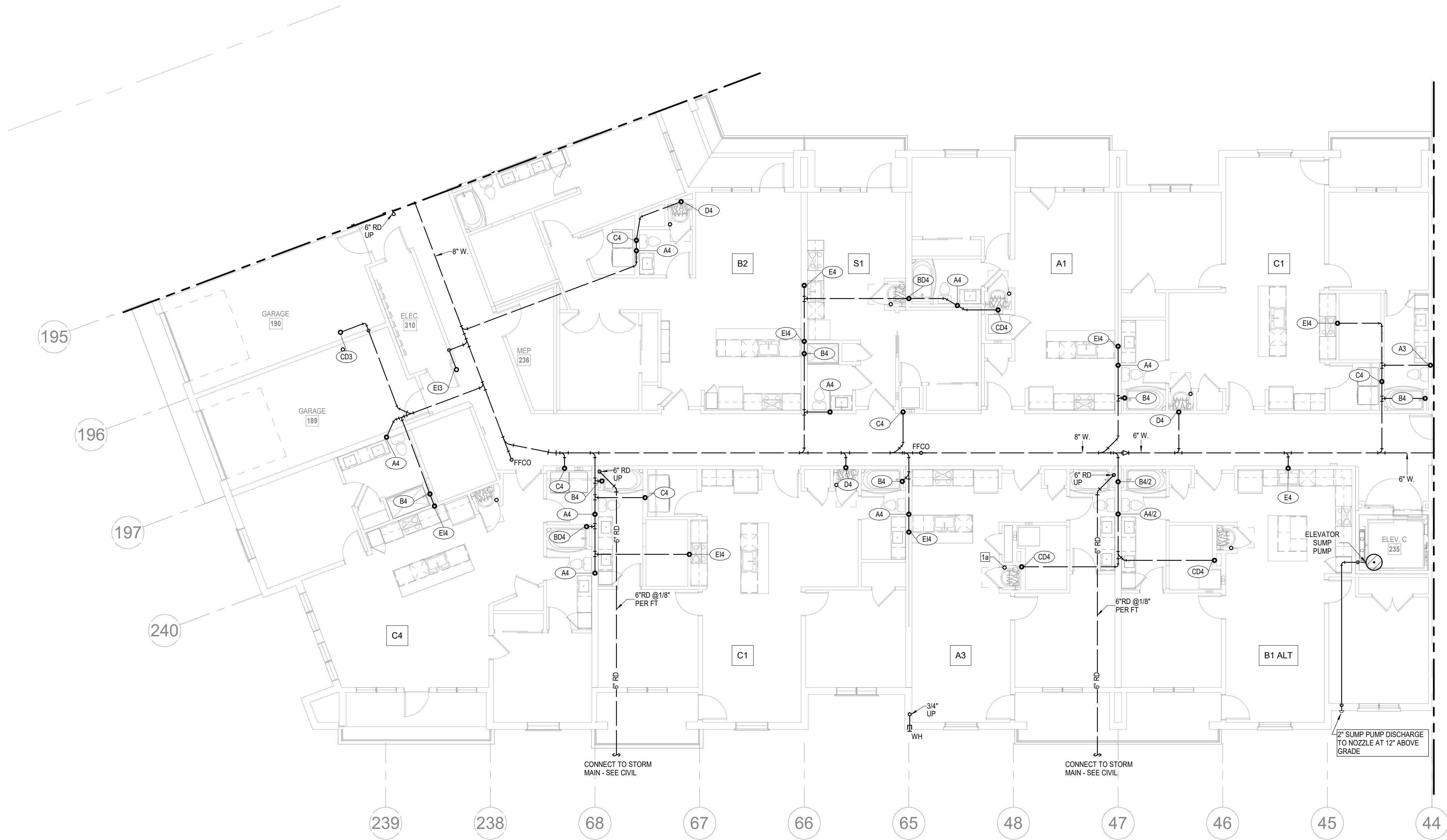
KEY PLAN

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LSA PROJECT NO. 2204061

JOB NO.
705921
DRAWN BY
LSA CAD
4/11/2023
CITY COMMENTS
SEGMENT B - ROOF PLAN - PLUMBING
SHEET NO.

DATE
03.15.2023

P1.08



1 1ST FLOOR - SEGMENT C
PLUMBING
1/8" = 1'-0"

- NOTES:**
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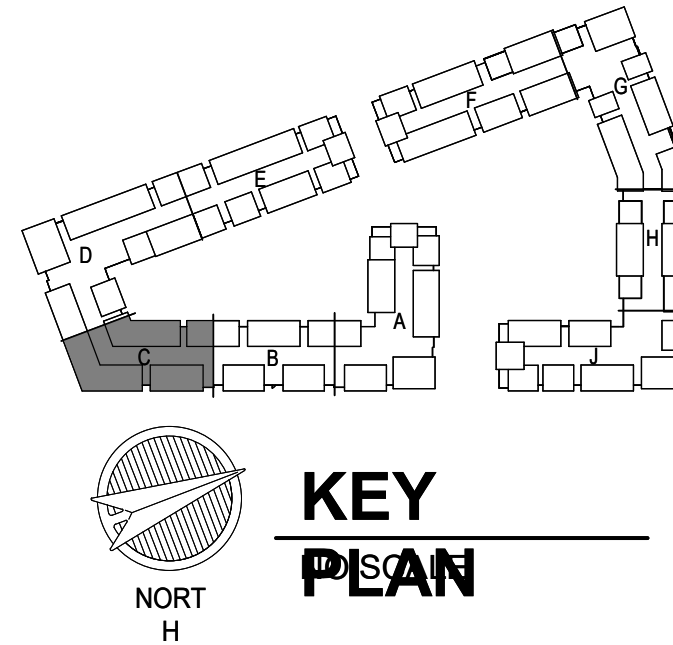
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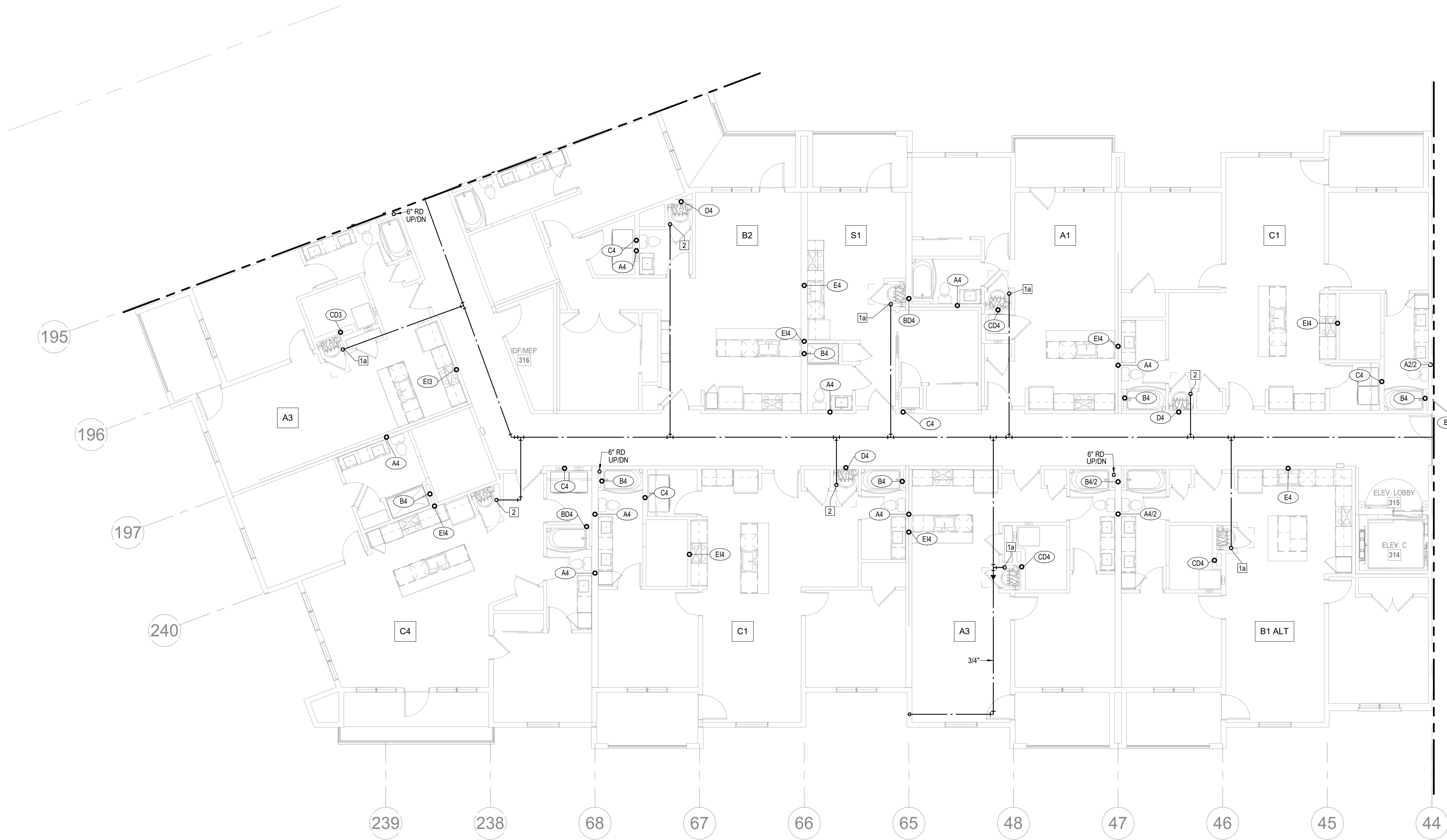
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CITY COMMENTS

SHEET NAME
SEGMENT C - 1ST FLOOR - PLUMBING

SHEET NO.

P1.09



1 2ND FLOOR - SEGMENT C
PLUMBING
1/8" = 1'-0"

- NOTES:**
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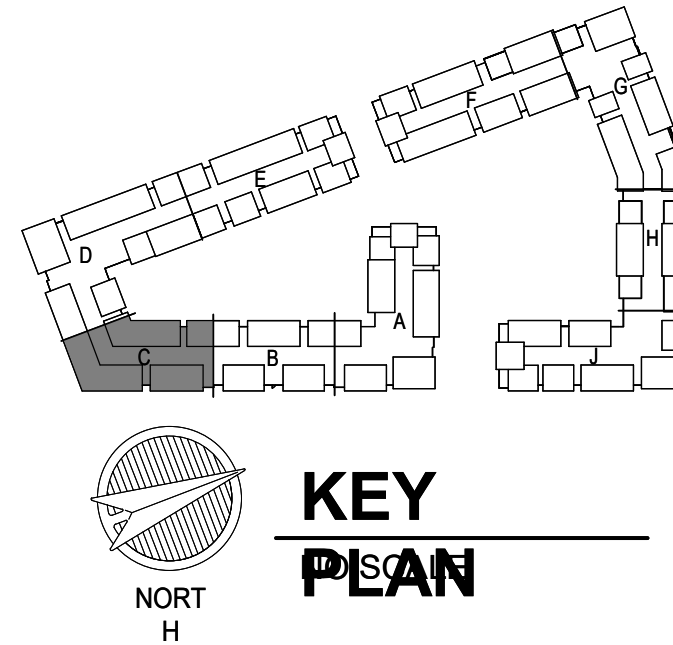
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JOB NO.
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LSA CAD

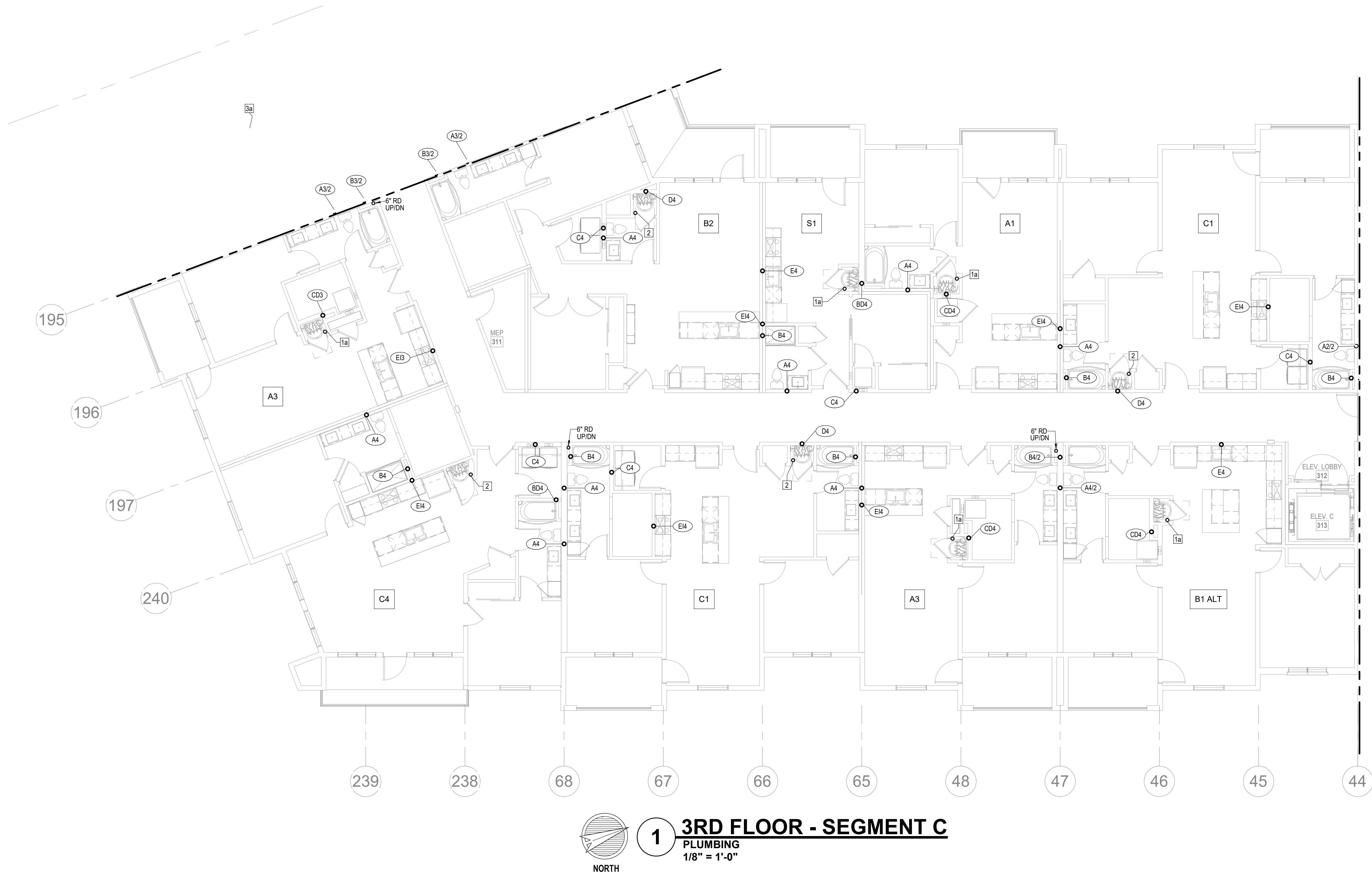
4/11/2023

CITY COMMENTS

SHEET NAME
SEGMENT C - 2ND FLOOR - PLUMBING

SHEET NO.

P1.10



1 3RD FLOOR - SEGMENT C
PLUMBING
1/8" = 1'-0"

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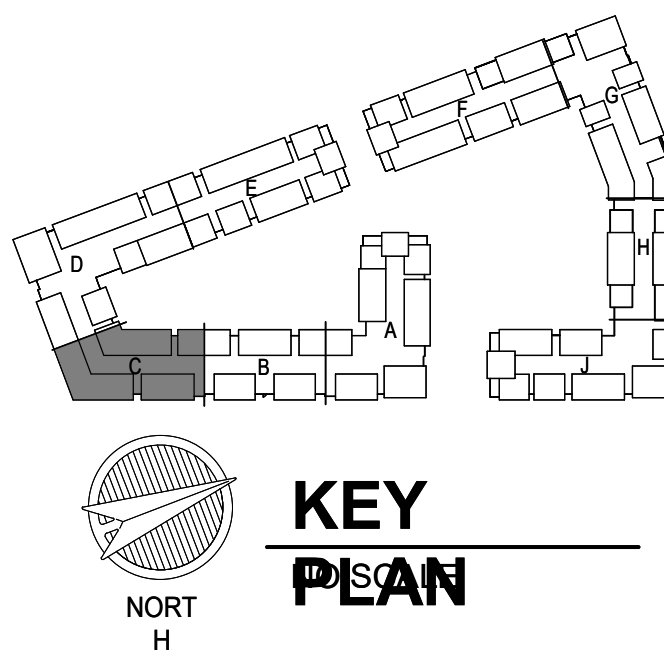
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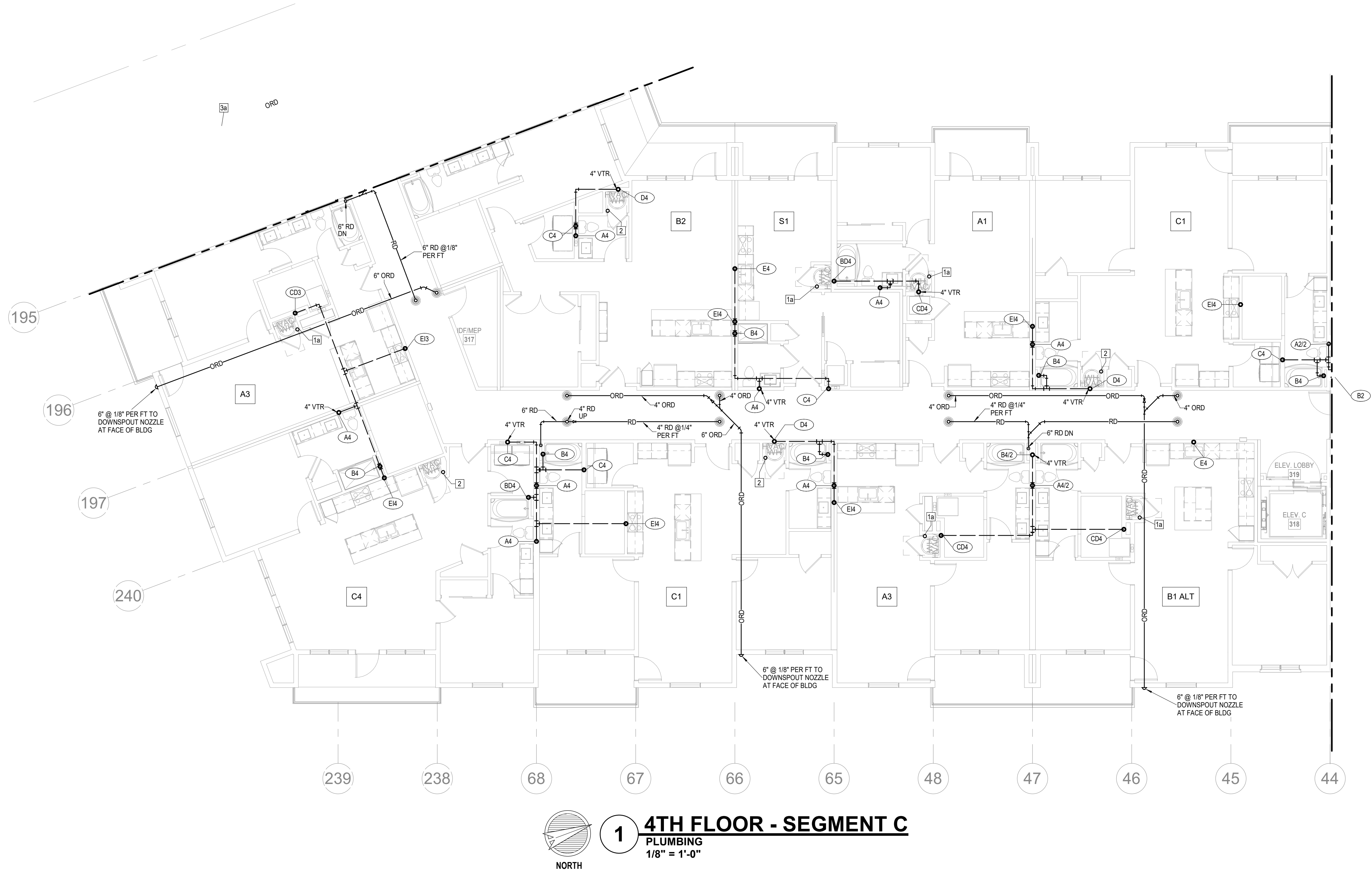
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KEY PLAN

REVISIONS

JOB NO. 705921
DRAWN BY LSA CAD
4/11/2023
CITY COMMENTS
SEGMENT C - 3RD FLOOR - PLUMBING
SHEET NO. P1.11

DATE 03.15.2023



1 4TH FLOOR - SEGMENT C
PLUMBING
1/8" = 1'-0"

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 11. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
 12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
 13. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA. THIS INCLUDES A PROTECTED OR DRY SYSTEM FOR ANY UNHEATED AREAS. NO PIPE SHALL BE EXPOSED TO FREEZING TEMPERATURES.

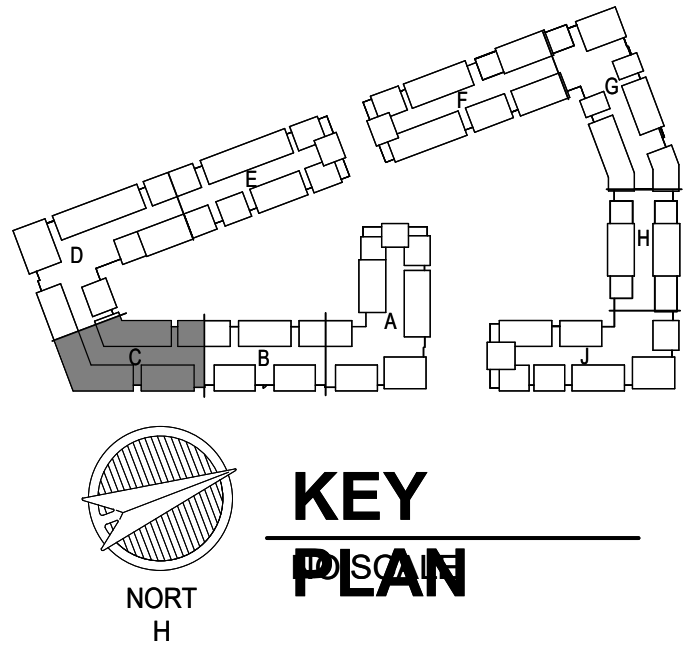
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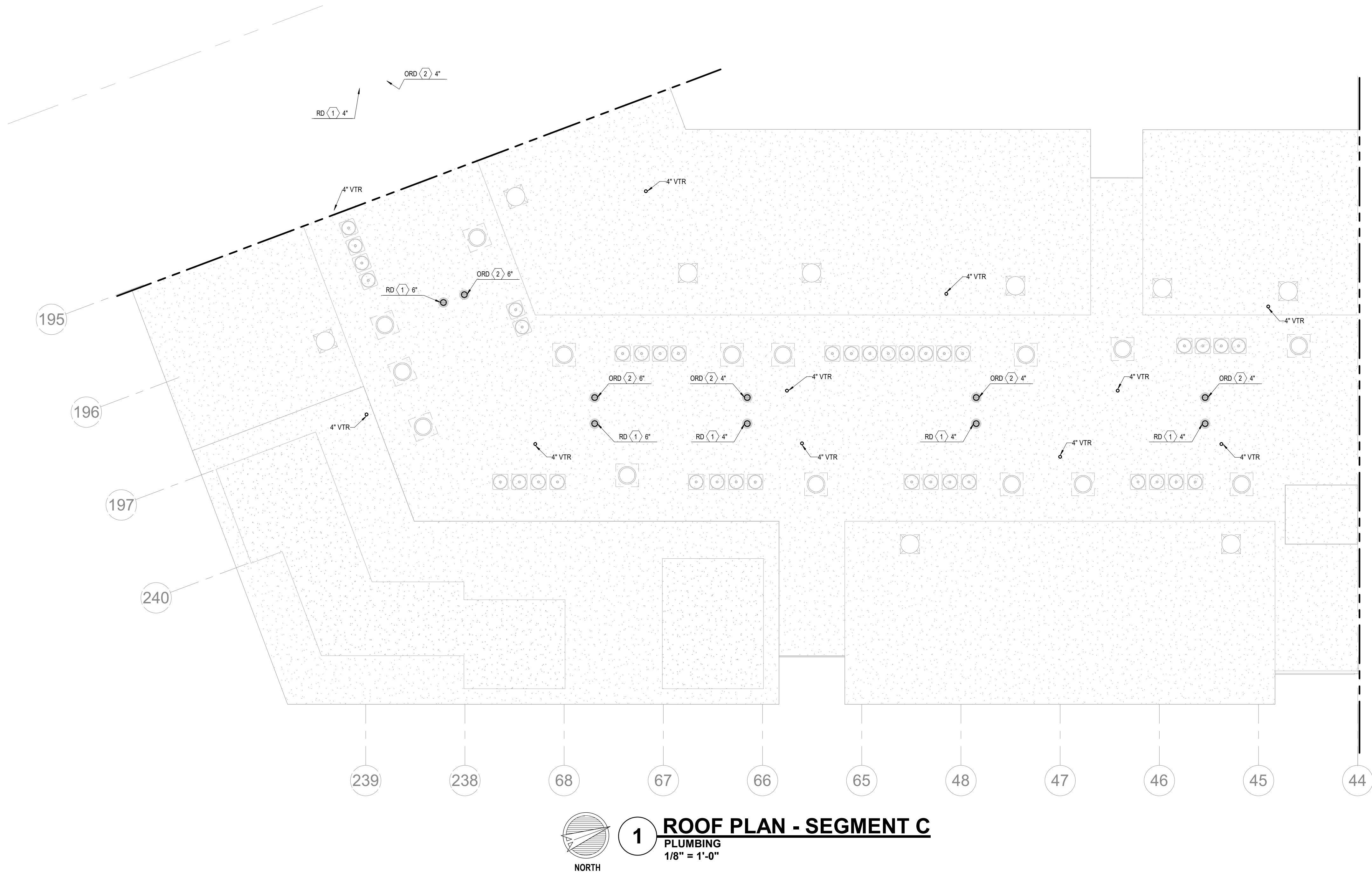
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REVISIONS

JOB NO. 705921
DRAWN BY LSA CAD
4/11/2023
CITY COMMENTS
SEGMENT C - 4TH FLOOR - PLUMBING
SHEET NO.

P1.12



1 ROOF PLAN - SEGMENT C
PLUMBING
1/8" = 1'-0"

- NOTES:
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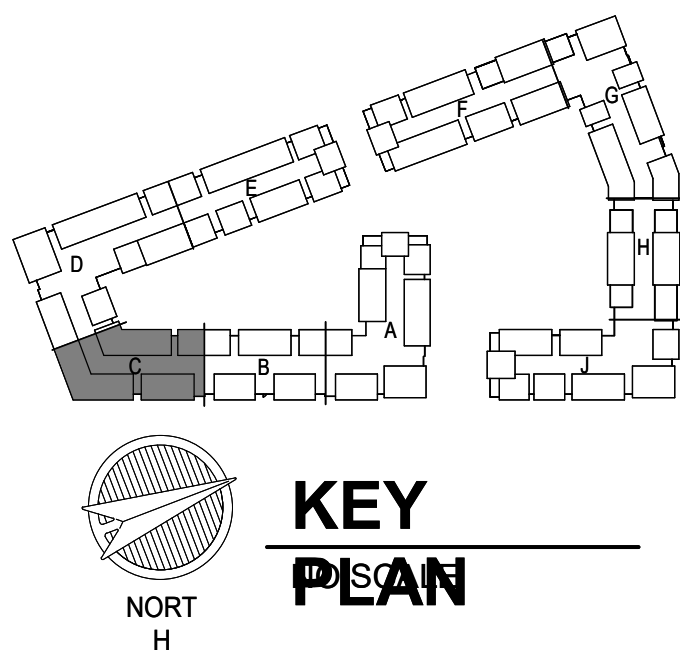
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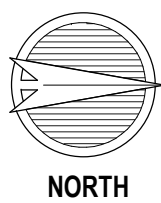
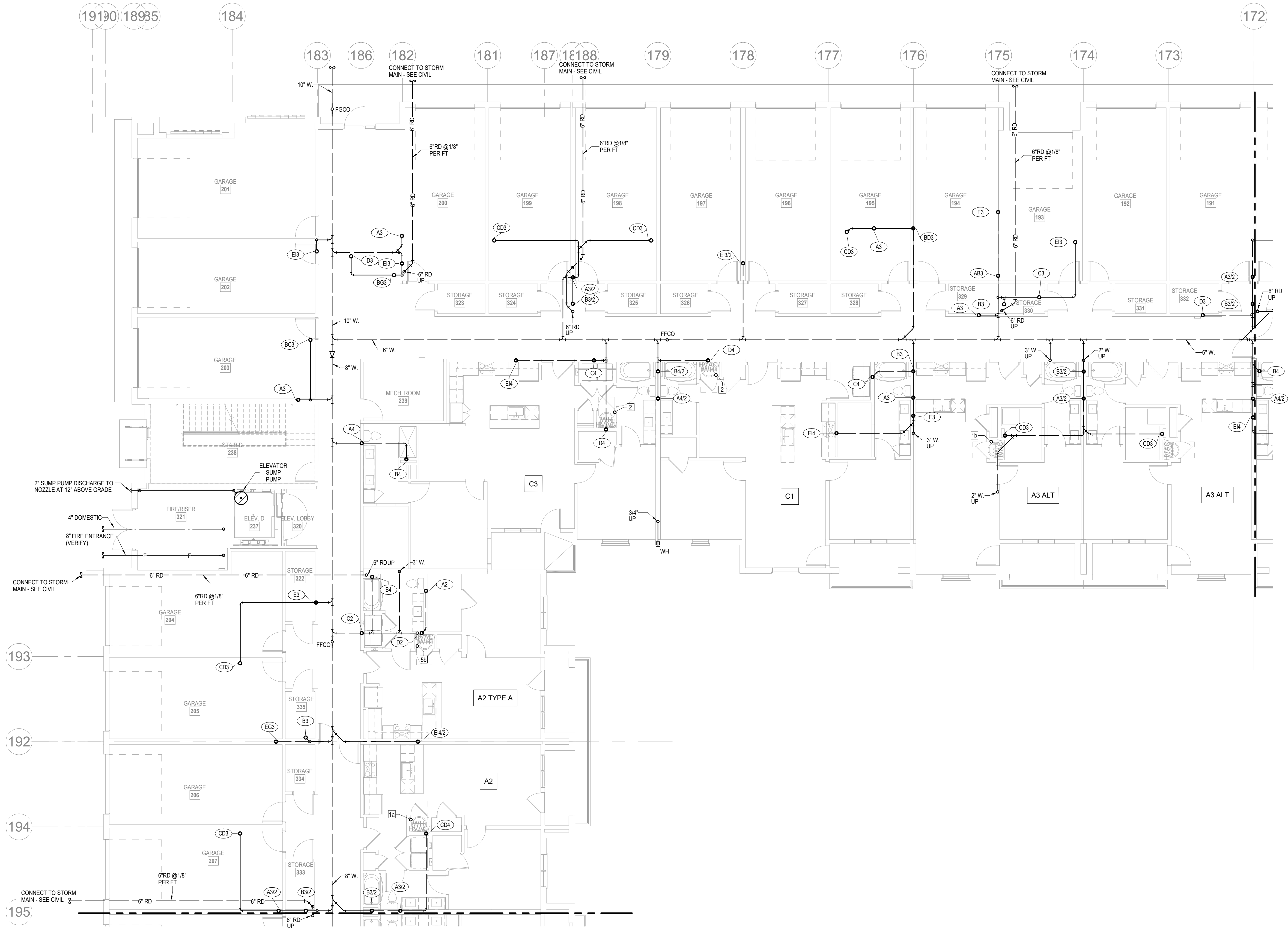
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CITY COMMENTS

SHEET NAME
SEGMENT C - ROOF PLAN - PLUMBING

SHEET NO.

P1.13



1 1ST FLOOR - SEGMENT D
PLUMBING
1/8" = 1'-0"

- NOTES:**
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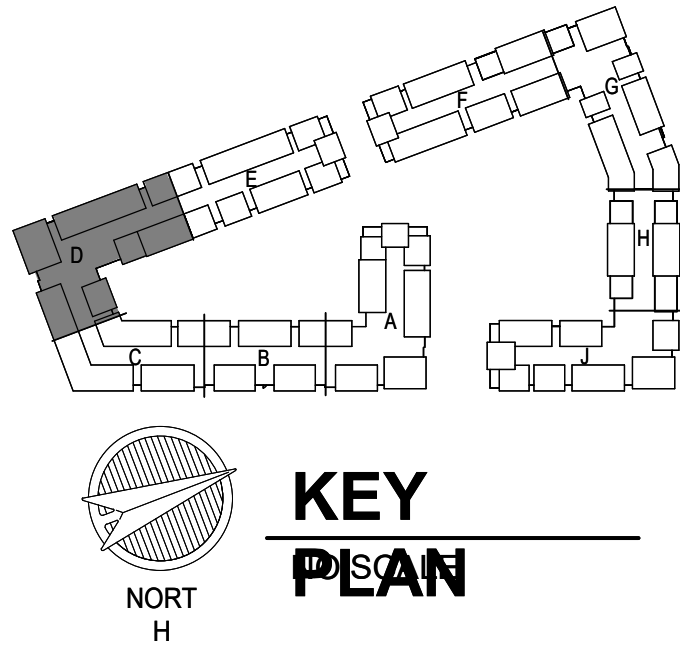
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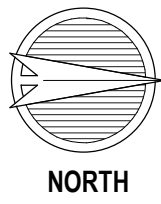
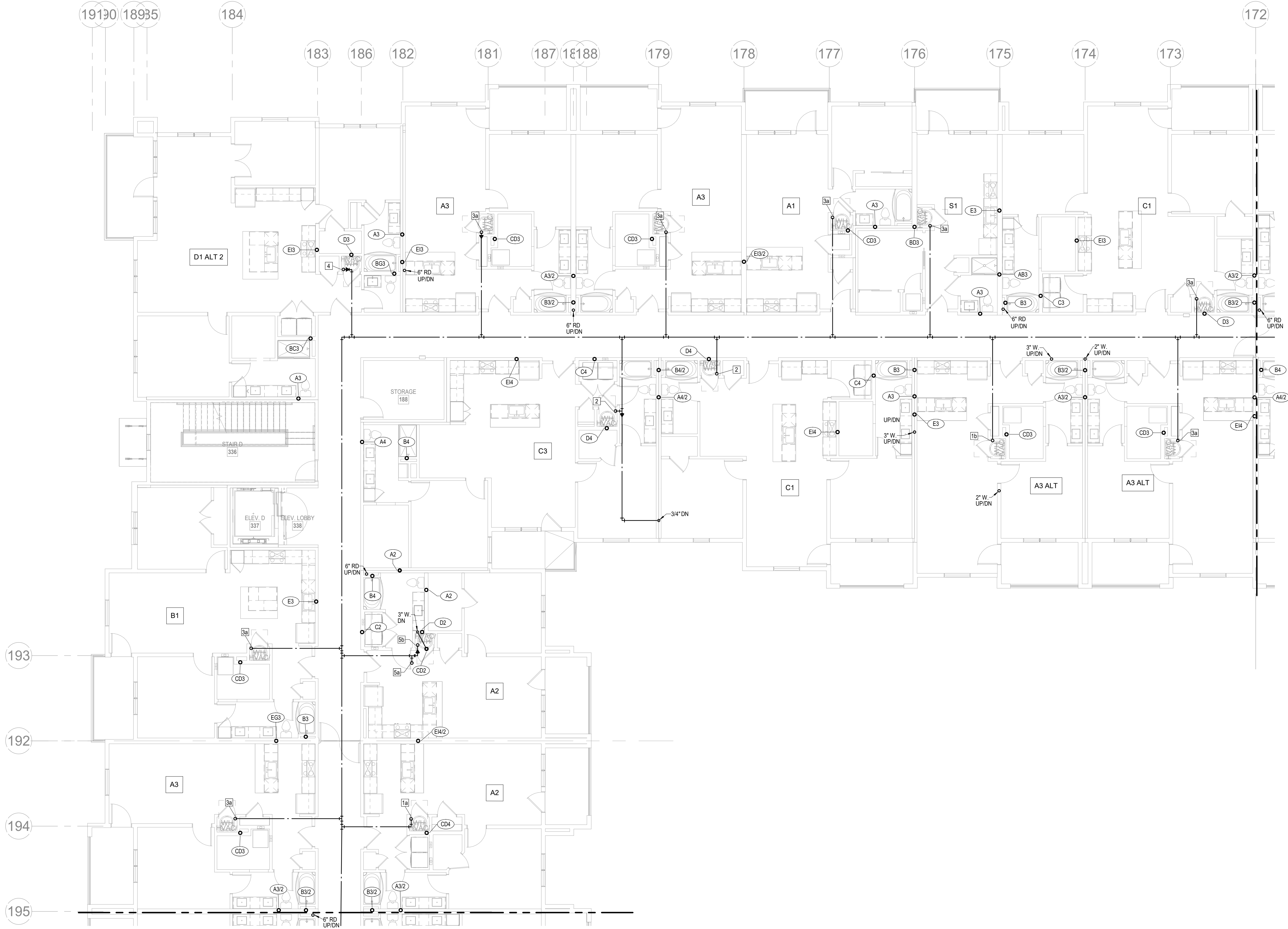
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JOB NO. 705921
DRAWN BY LSA CAD
4/11/2023
CITY COMMENTS
SEGMENT D - 1ST FLOOR - PLUMBING
SHEET NO.

DATE 03.15.2023
SHEET NAME
PLUMBING
P1.14



1 2ND FLOOR - SEGMENT D
PLUMBING
1/8" = 1'-0"

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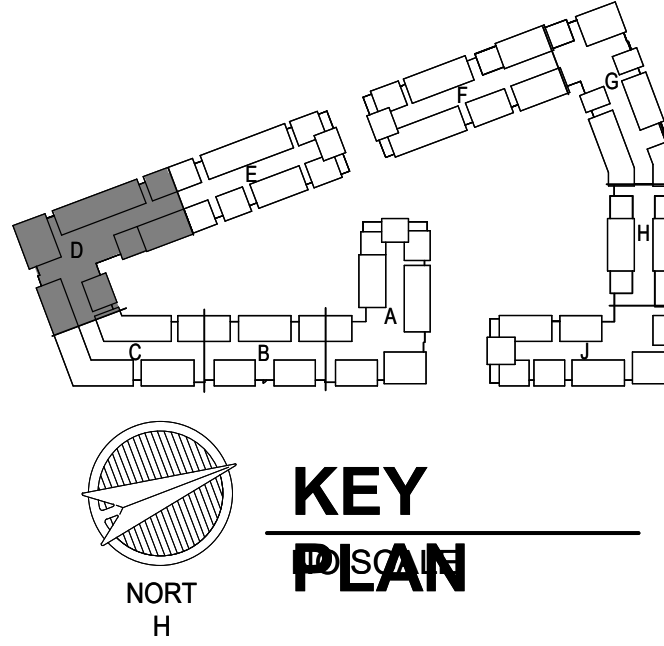
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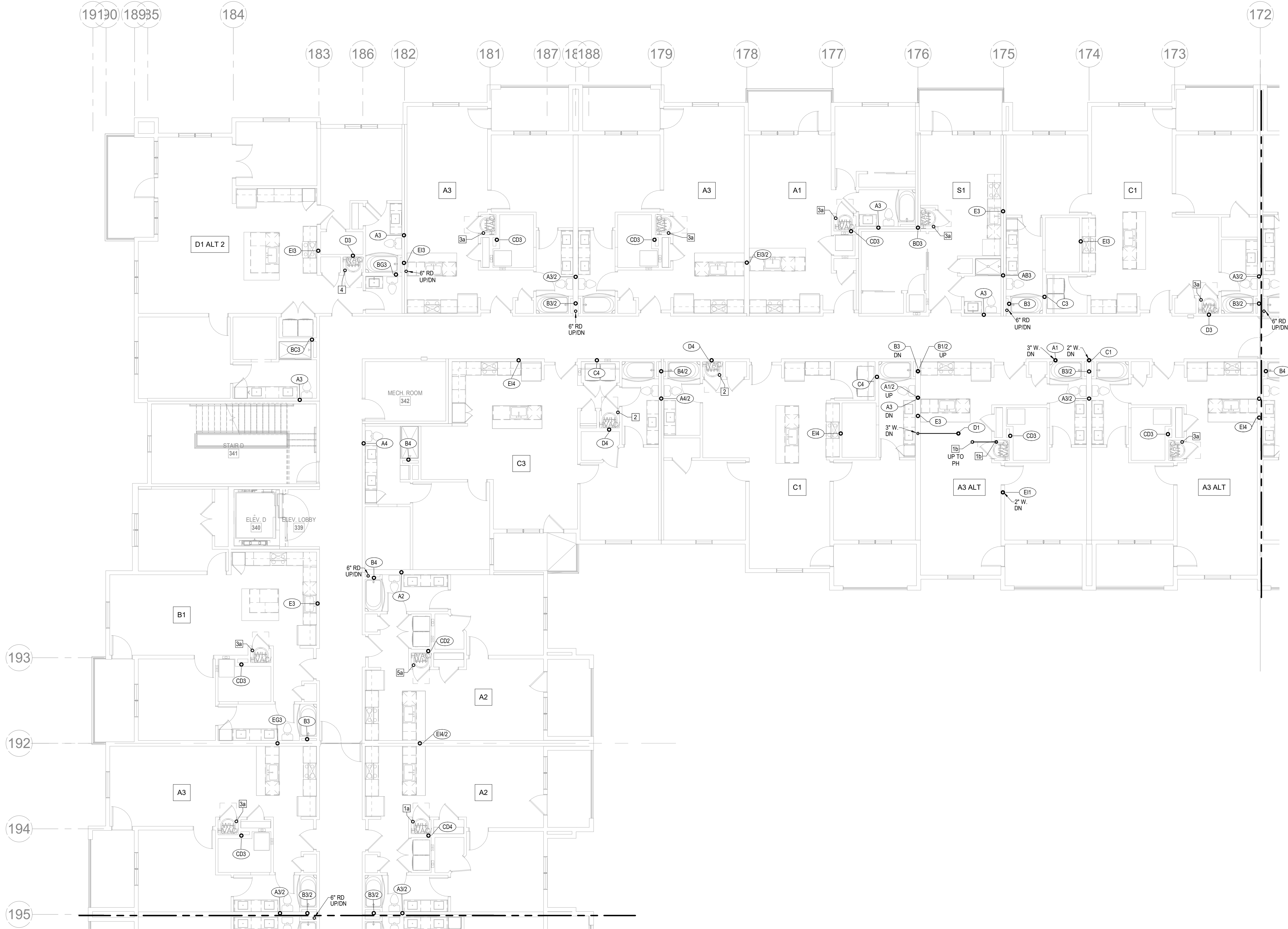
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SHEET NAME
SEGMENT D - 2ND FLOOR - PLUMBING

SHEET NO.
P1.15



1 3RD FLOOR - SEGMENT D
PLUMBING
1/8" = 1'-0"

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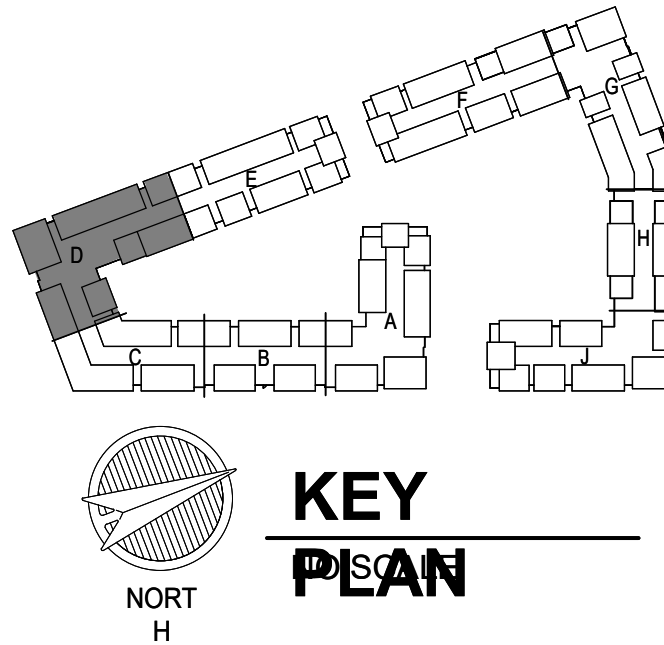
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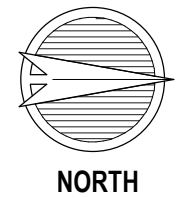
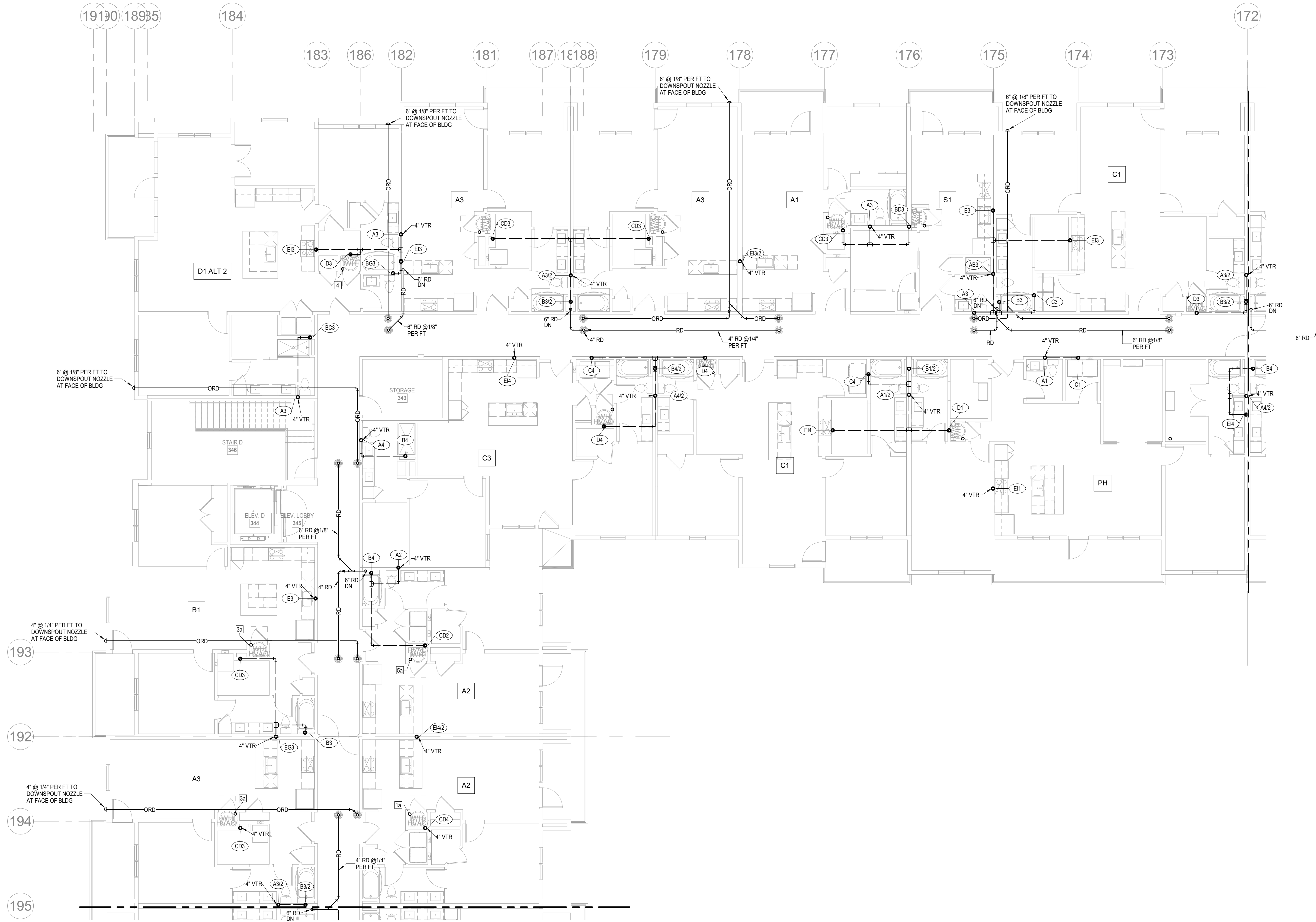
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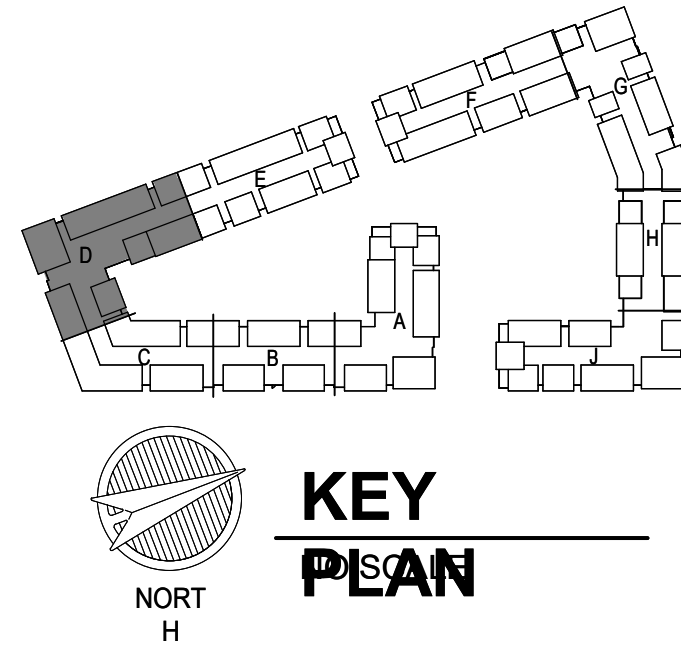
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LSA CAD
4/11/2023
CITY COMMENTS
SHEET NAME
SEGMENT D - 3RD FLOOR - PLUMBING
SHEET NO.
P1.16



1 4TH FLOOR - SEGMENT D
PLUMBING
1/8" = 1'-0"

- NOTES:**
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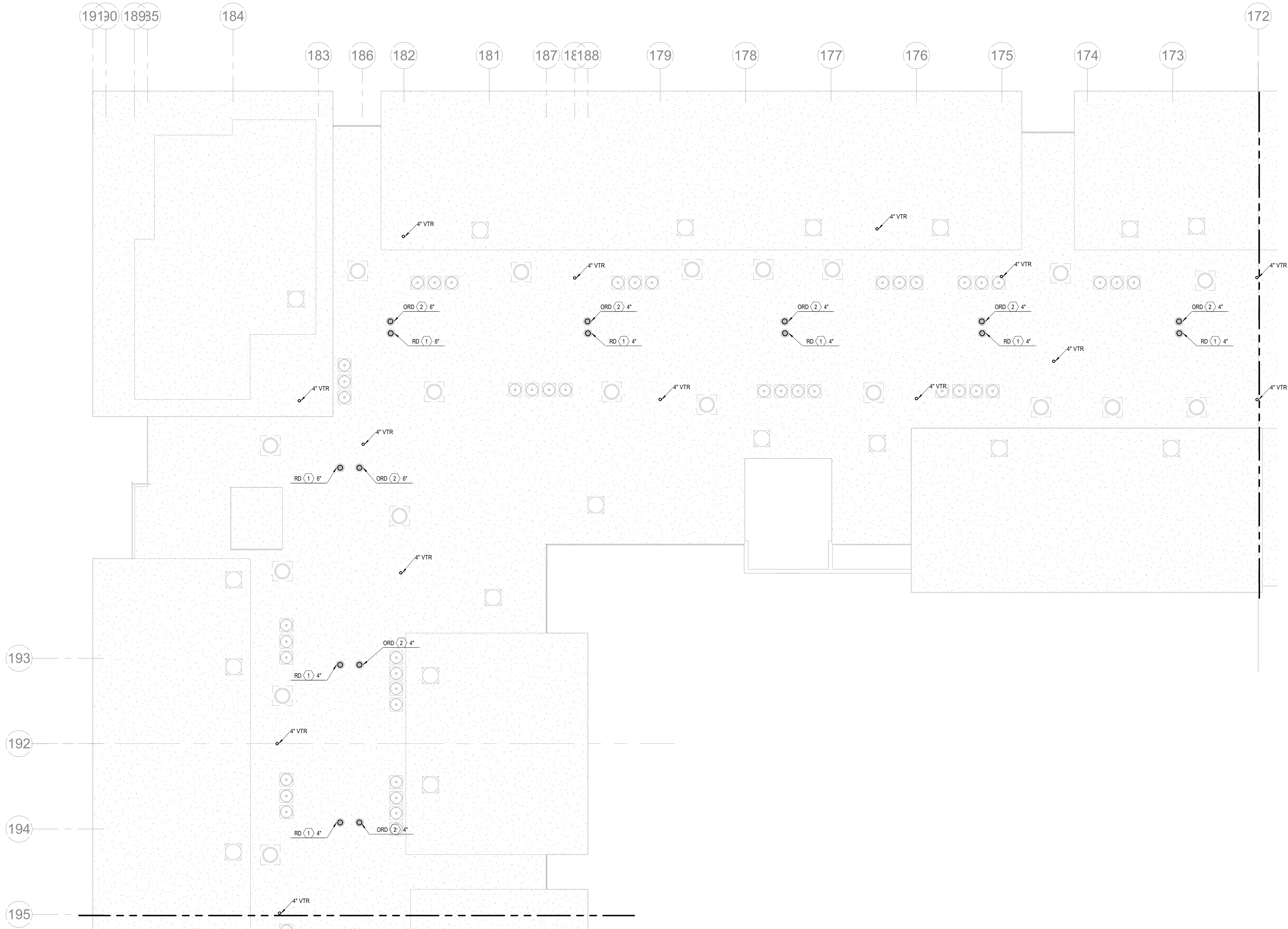
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SEGMENT D - 4TH FLOOR - PLUMBING
SHEET NO.

P1.17

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BOARDS & COMMISSIONS
Professional Engineer
03/15/2023



1 ROOF PLAN - SEGMENT D
PLUMBING
1/8" = 1'-0"

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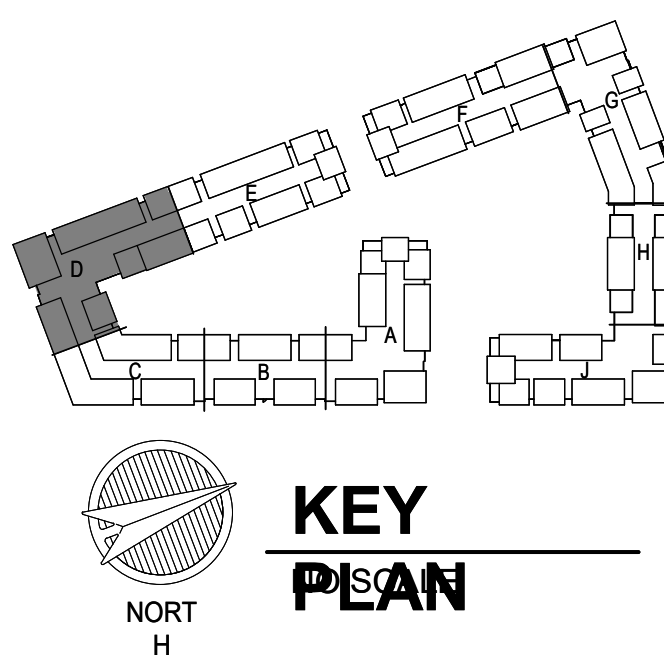
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CITY COMMENTS

SHEET NAME
SEGMENT D - ROOF PLAN - PLUMBING

SHEET NO.

P1.18



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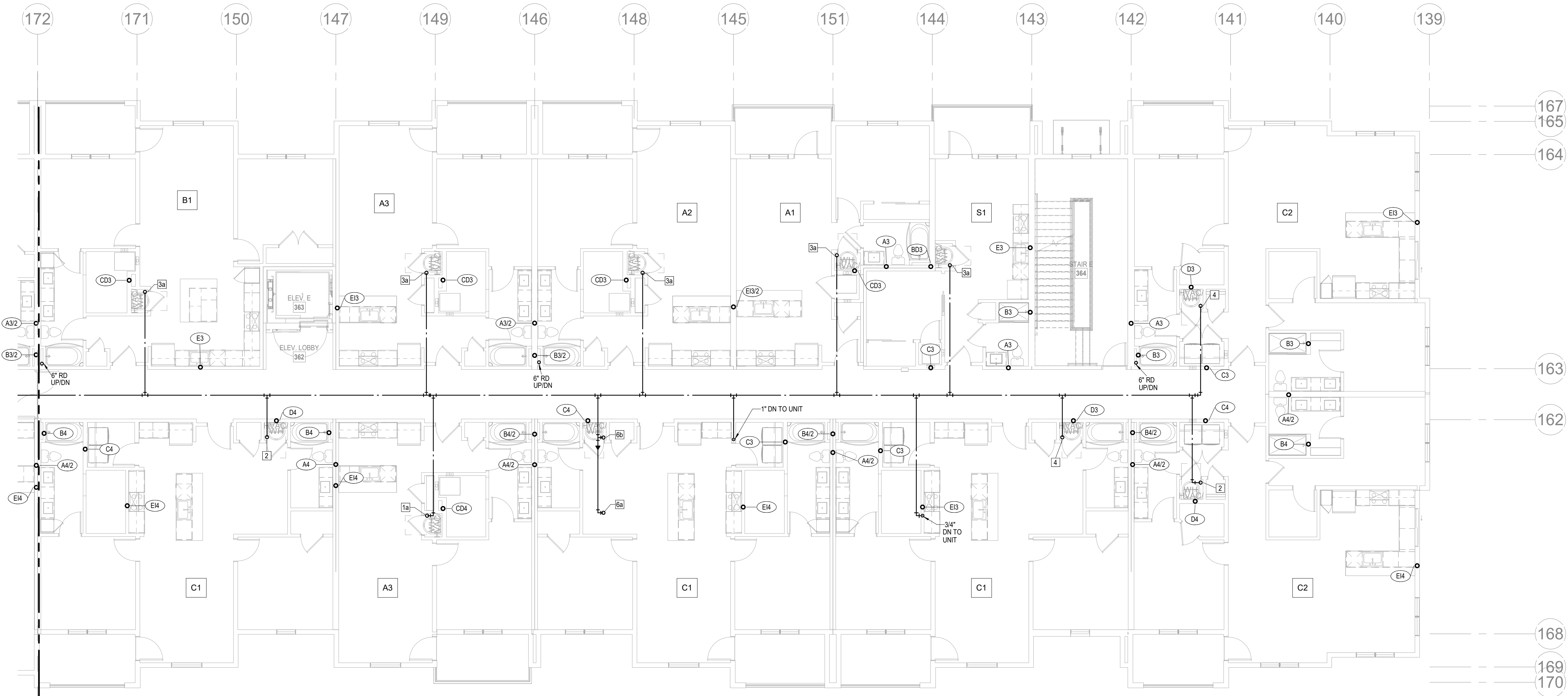


JOB NO. **705921** DATE **03.15.2023**
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4/11/2023
CITY COMMENTS

SHEET NAME
SEGMENT E - 1ST FLOOR -
PLUMBING
SHEET NO.

P1.19



1 2ND FLOOR - SEGMENT E
PLUMBING
1/8" = 1'-0"

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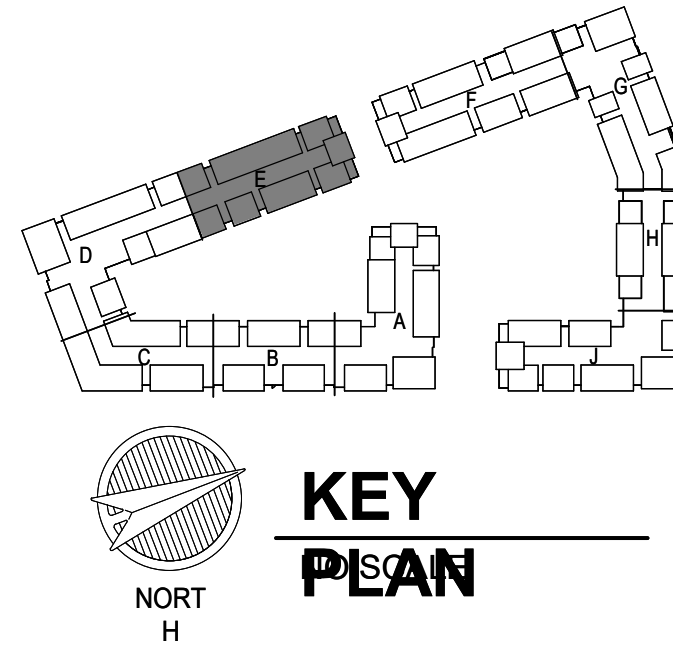
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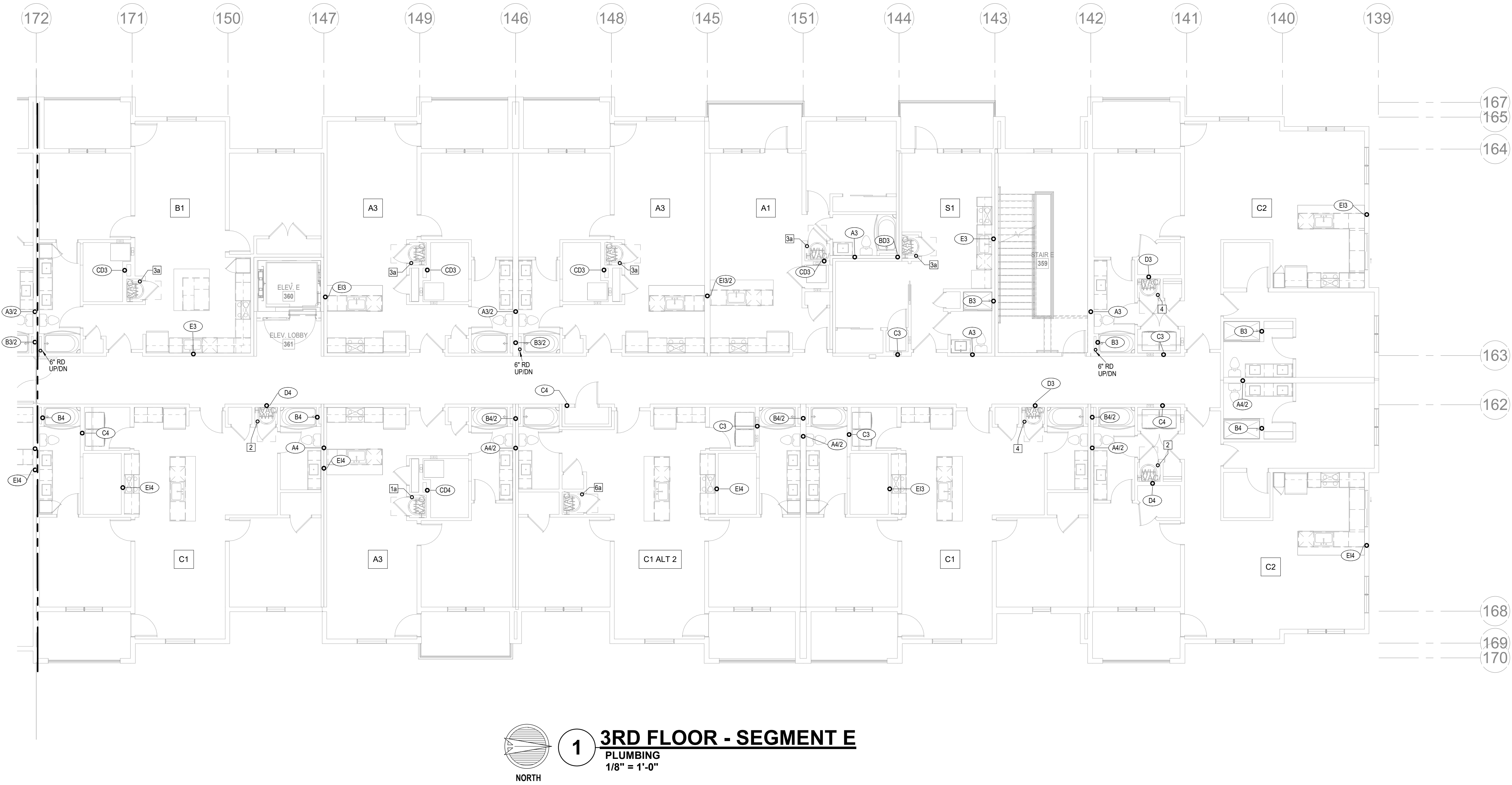
4/11/2023

CITY COMMENTS

SHEET NAME
SEGMENT E - 2ND FLOOR - PLUMBING

SHEET NO.

P1.20



- NOTES:
- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
 - SEE FIRE SUPPRESSION SUBMITTALS AND INCORPORATE ALL DEVICES INTO FIRE ALARM.
 - EXIT LIGHTS SHALL BE VISIBLE TO OCCUPANTS.
 - PROVIDE NEC CLEARANCES FOR ALL PANELS AND ELECTRICAL EQUIPMENT.
 - FOLLOW THE DRAWINGS FOR HOME RUNS AND CIRCUIT NUMBERS. DO NOT COMBINE CIRCUITS IN LARGER CONDUITS UNLESS PRE-APPROVED BY THE ENGINEER.
 - LABEL ALL JUNCTION BOXES AS TO THE PANEL AND CIRCUIT NUMBER SERVED.
 - PANEL DIRECTORIES SHALL BE SPECIFIC TO THE ROOMS/EQUIPMENT SERVED.
 - SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS.
 - SEE TELECOM DETAILS FOR MISCELLANEOUS POWER NEEDS.
 - ALL DISC FIXTURES ARE TYPE A UNLESS NOTED OTHERWISE
ALL CLOSET FIXTURES ARE TYPE N UNLESS NOTED OTHERWISE
ALL FIXTURES ARE TYPE X1 UNLESS NOTED OTHERWISE
ALL FIXTURES ARE TYPE X2 UNLESS NOTED OTHERWISE
ALL FIXTURES ARE TYPE X3 UNLESS NOTED OTHERWISE
ALL FIXTURES ARE TYPE X4 UNLESS NOTED OTHERWISE
 - LIGHTING AND RECEPTACLES IN STAIR TOWER TO BE ON SINGLE CIRCUIT.
 - VERTICALLY ALIGNED FLOOR TO FLOOR RECEPTACLES TO BE ON SINGLE CIRCUIT
 - REVIEW HVAC PLANS FOR FIRE/SMOKE DAMPERS AND CONNECT TO 120V AND FIRE ALARM.

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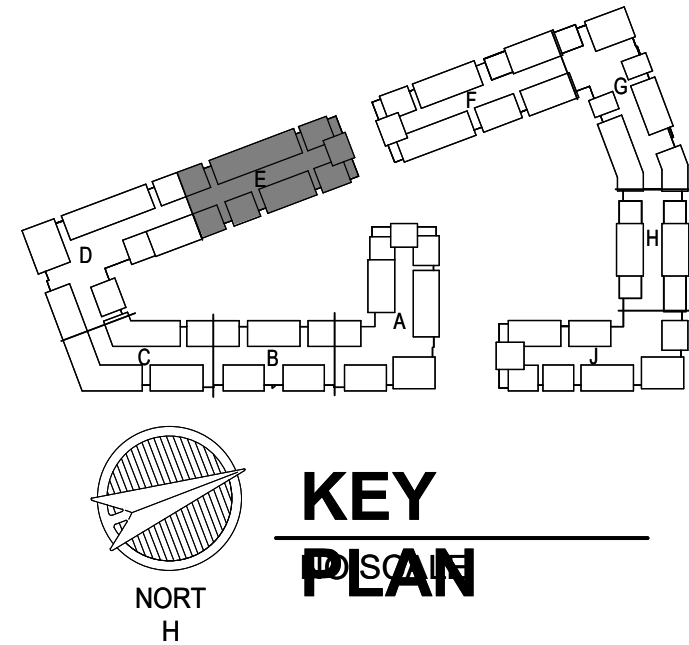
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JOB NO.
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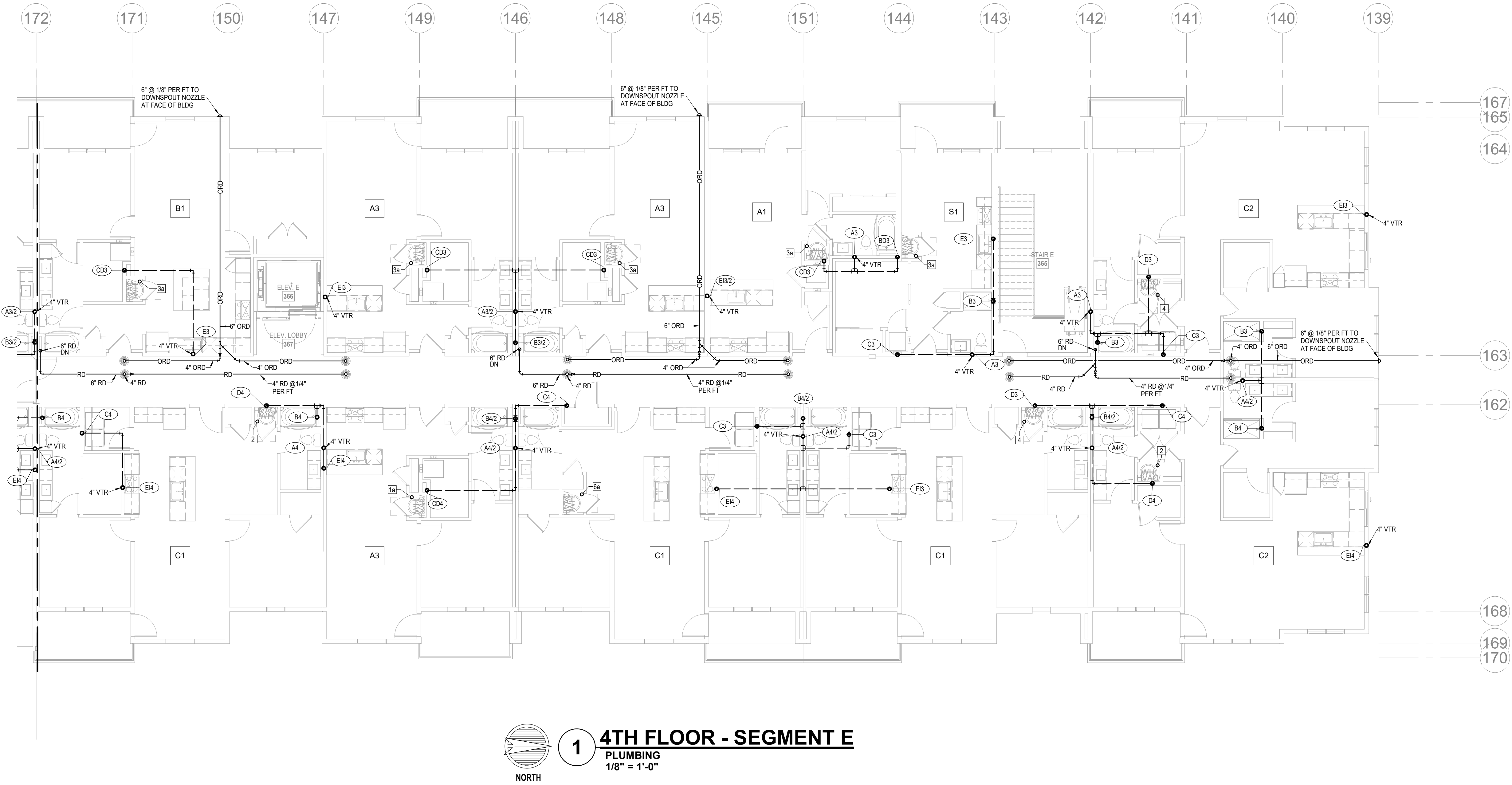
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SHEET NAME
CITY COMMENTS

SHEET NAME
SEGMENT E - 3RD FLOOR - PLUMBING

SHEET NO.
P1.21



- NOTES:
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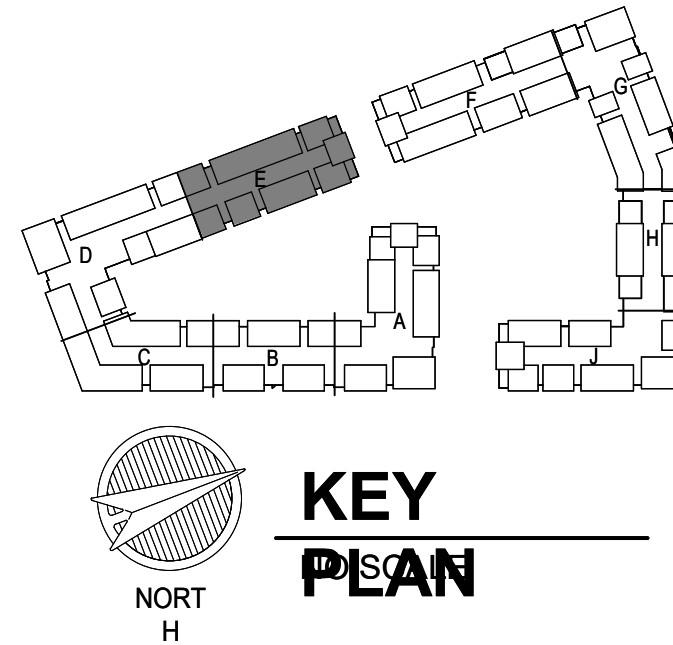
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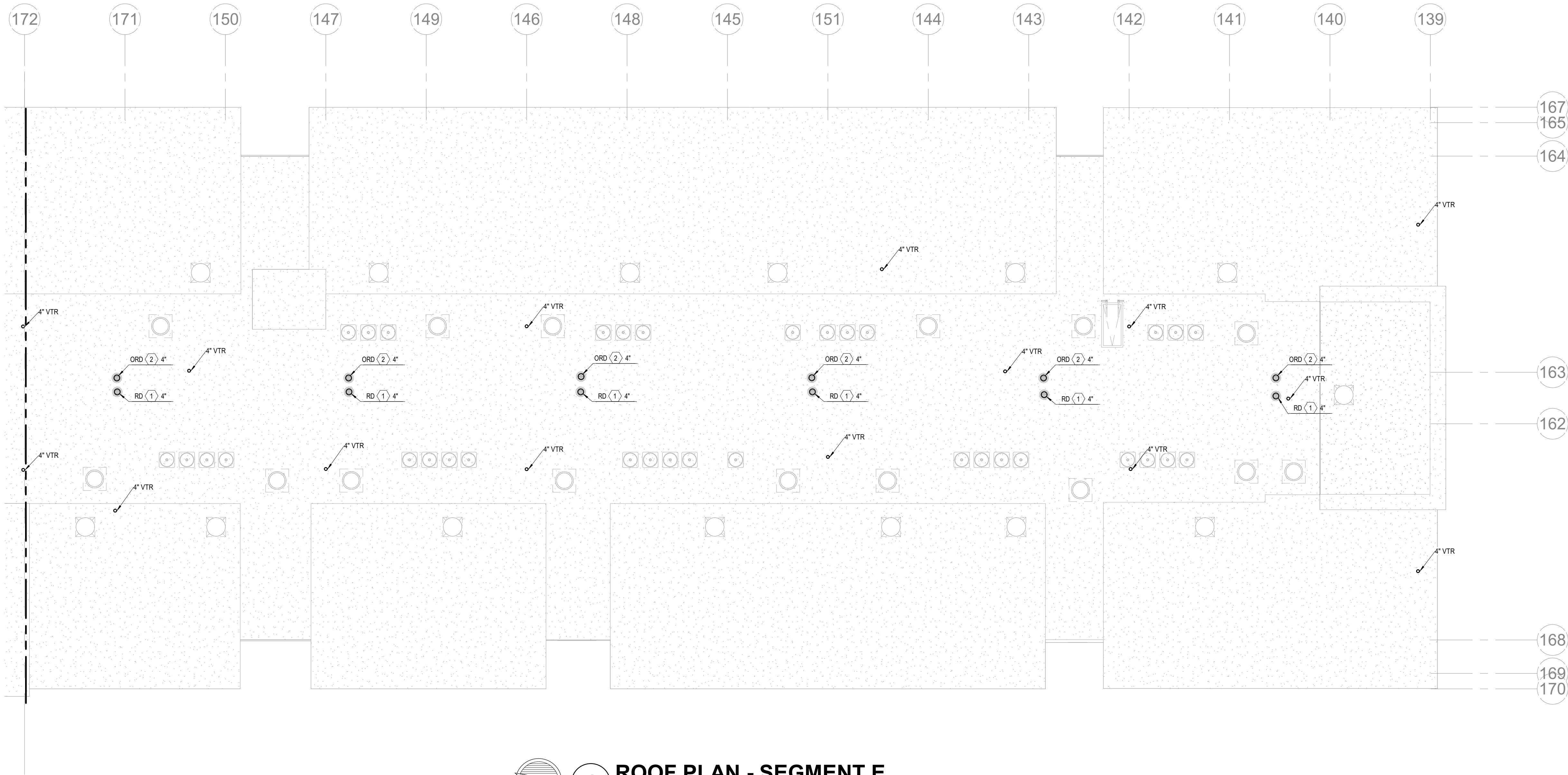
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SHEET NAME
CITY COMMENTS

SEGMENT E - 4TH FLOOR - PLUMBING

SHEET NO.

P1.22



1 ROOF PLAN - SEGMENT E
PLUMBING
1/8" = 1'-0"

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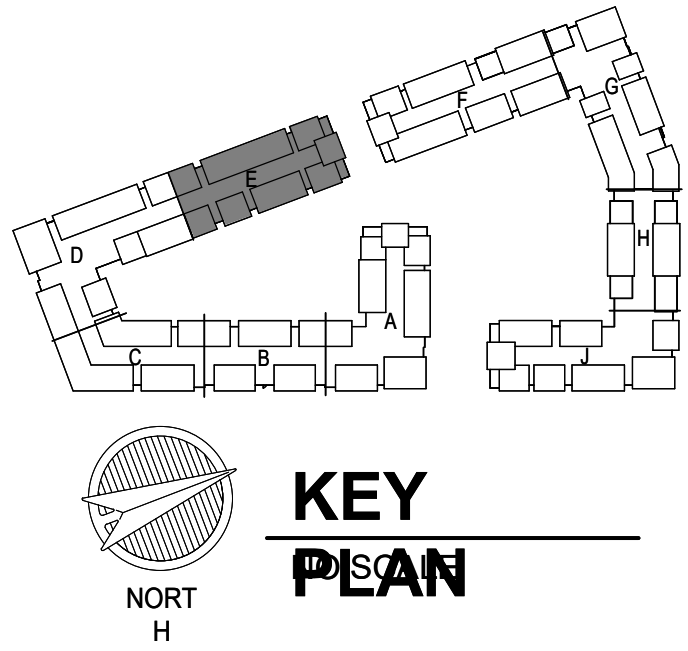
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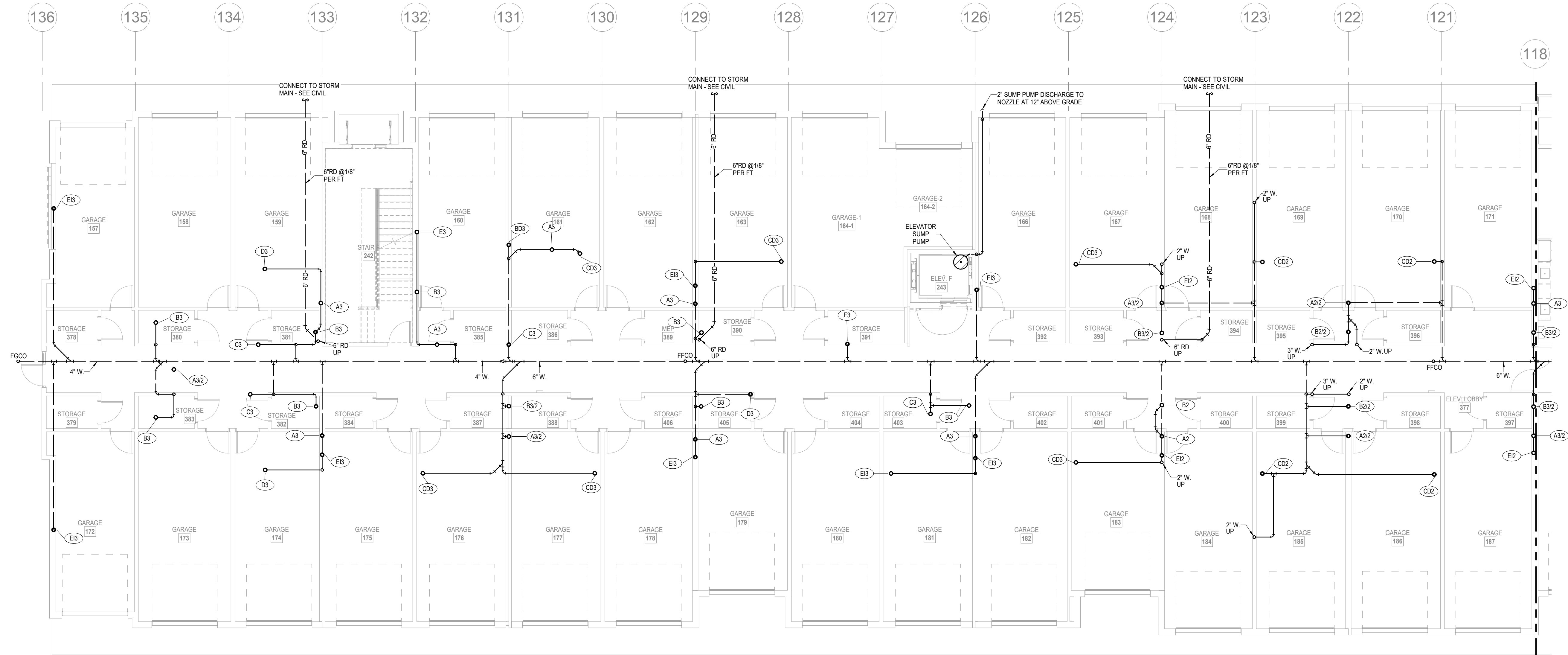
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CITY COMMENTS

SHEET NAME
SEGMENT E - ROOF PLAN - PLUMBING

SHEET NO.

P1.23



1 1ST FLOOR - SEGMENT F
PLUMBING
1/8" = 1'-0"

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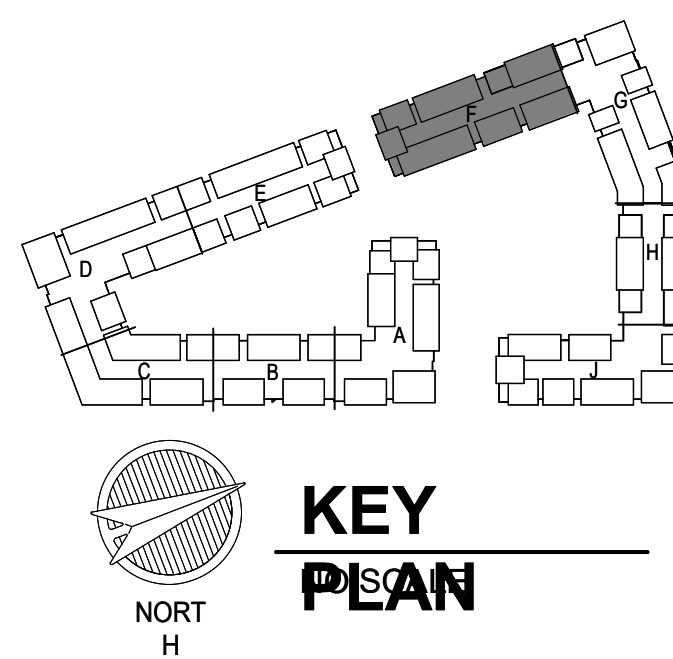
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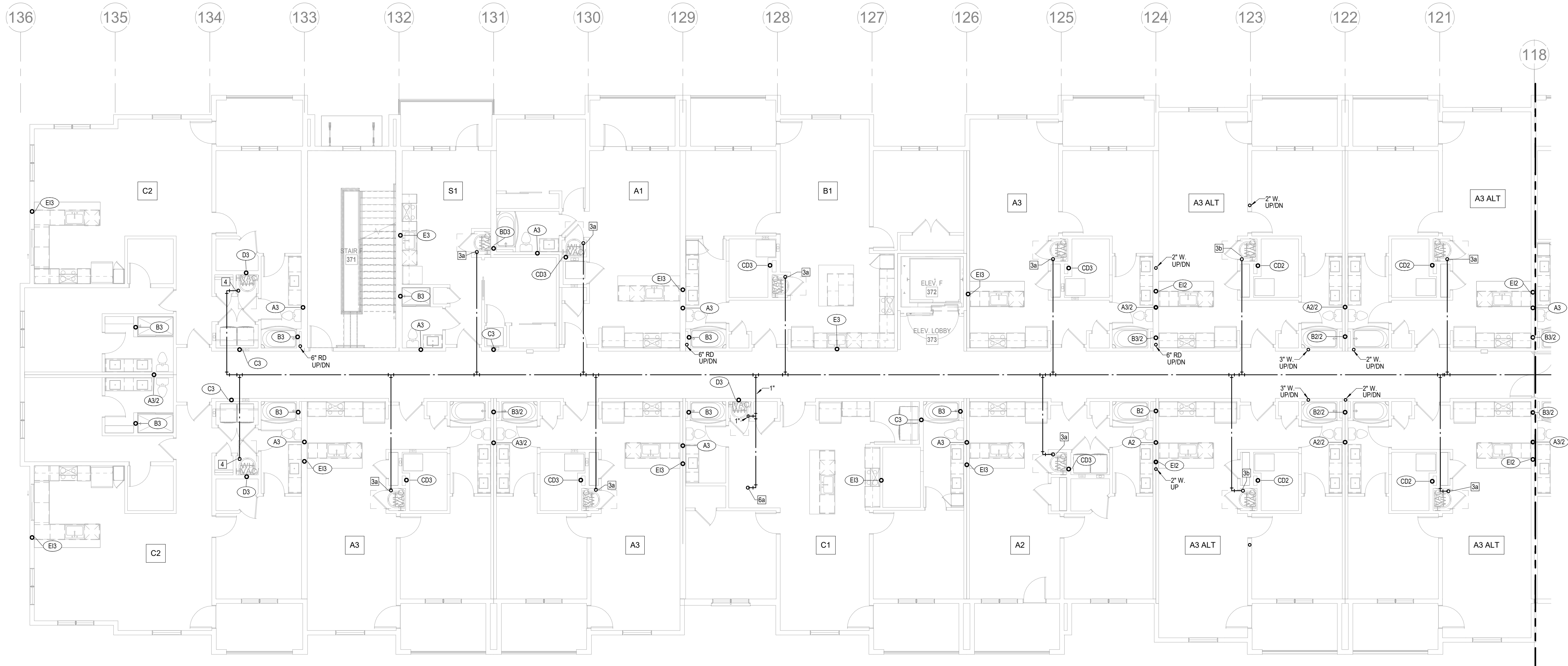
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JOB NO. 705921
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4/11/2023
CITY COMMENTS
SHEET NAME
SEGMENT F - 1ST FLOOR - PLUMBING
SHEET NO.

P1.24



1 2ND FLOOR - SEGMENT F
PLUMBING
1/8" = 1'-0"

- NOTES:**
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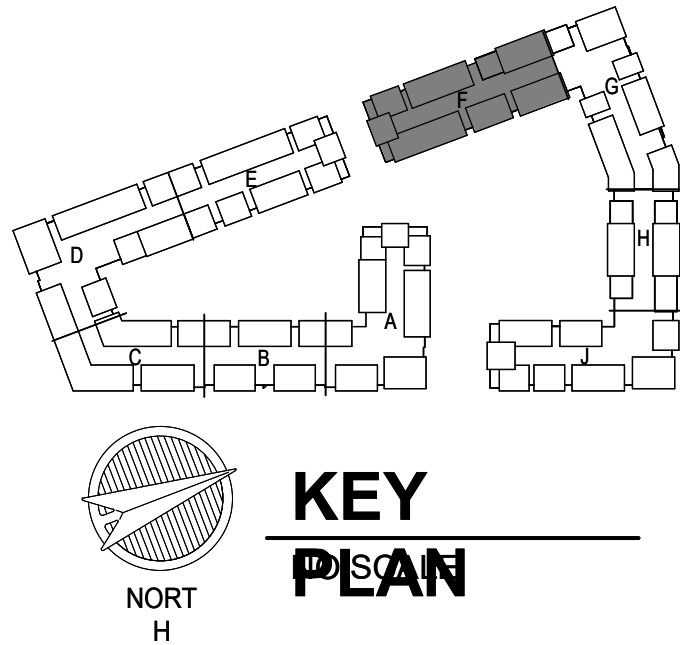
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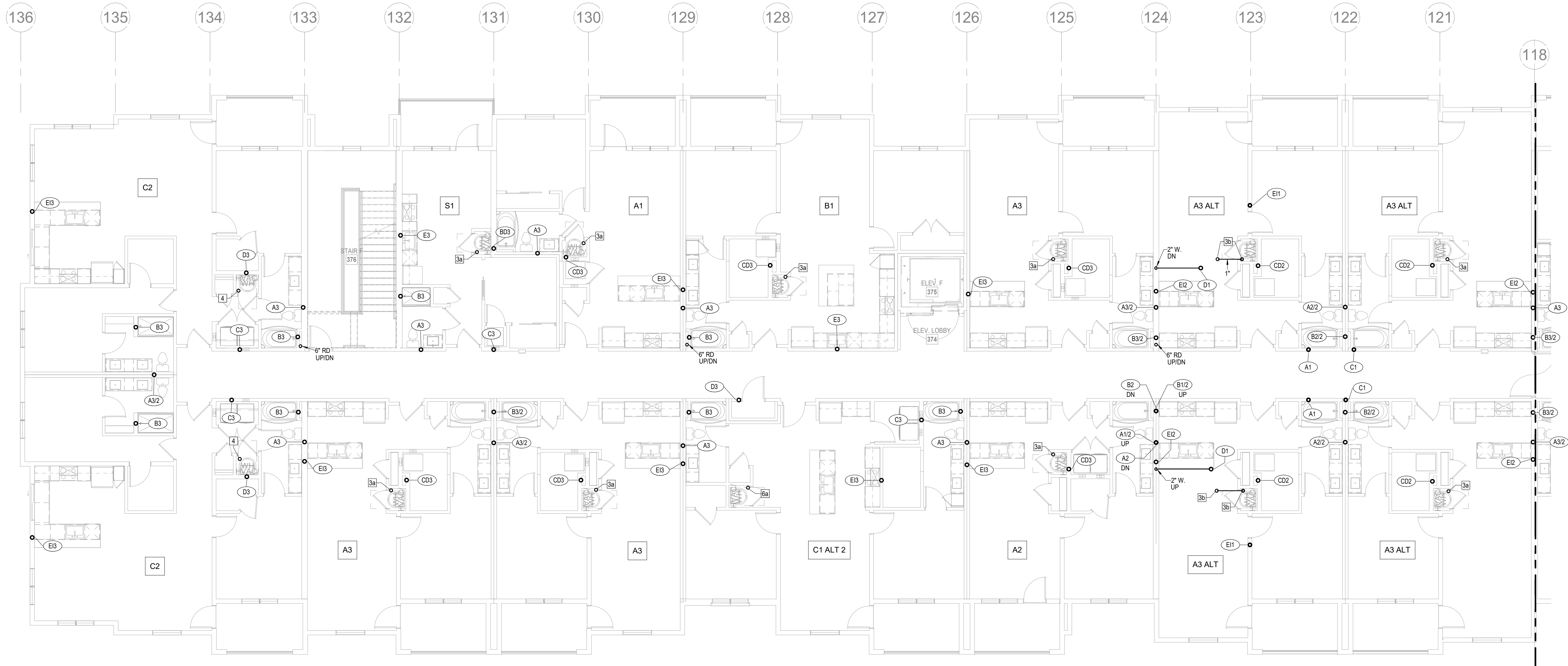
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CITY COMMENTS

SHEET NAME
SEGMENT F - 2ND FLOOR - PLUMBING

SHEET NO.

P1.25



1 3RD FLOOR - SEGMENT F
PLUMBING
1/8" = 1'-0"

- NOTES:**
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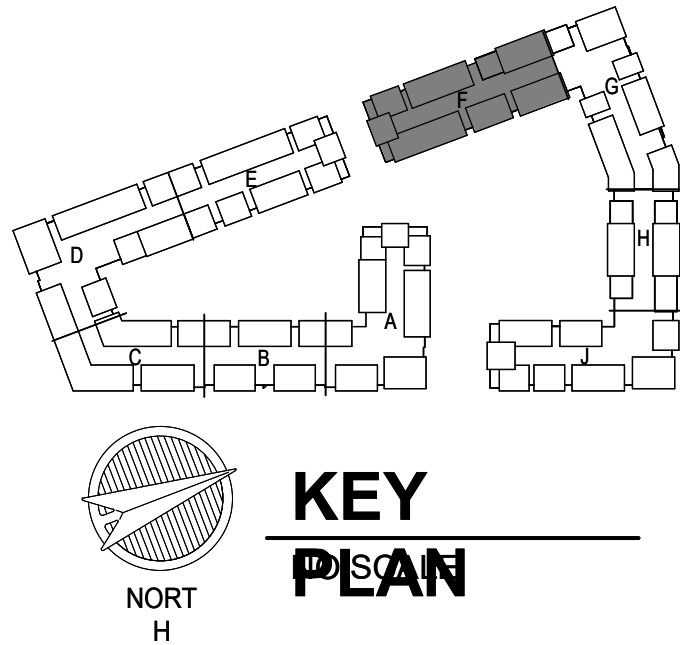
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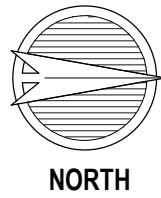
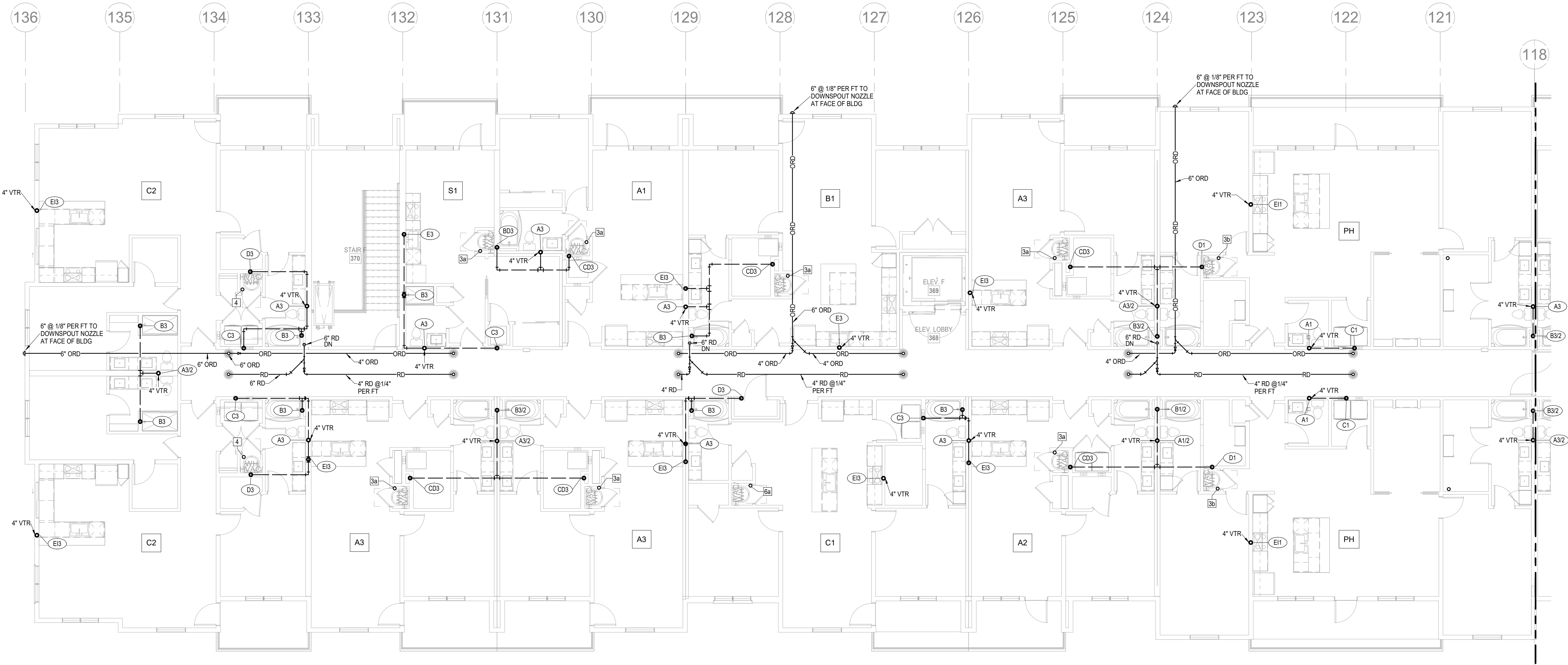


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CITY COMMENTS
SHEET NAME
SEGMENT F - 3RD FLOOR - PLUMBING
SHEET NO.

DATE 03.15.2023

P1.26



1 4TH FLOOR - SEGMENT F
PLUMBING
1/8" = 1'-0"

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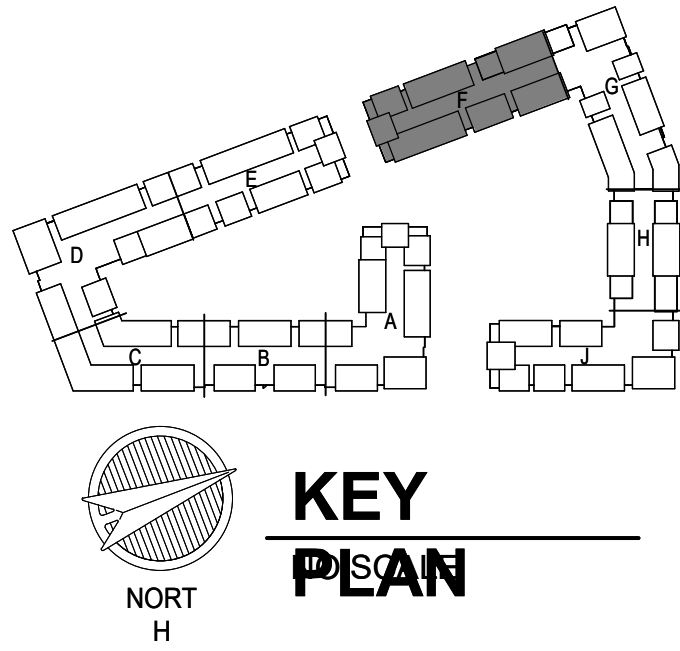
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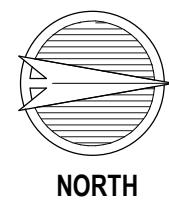
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SHEET NAME
CITY COMMENTS

SEGMENT F - 4TH FLOOR -
PLUMBING

SHEET NO.

P1.27



1

ROOF PLAN - SEGMENT F
PLUMBING
1/8" = 1'-0"

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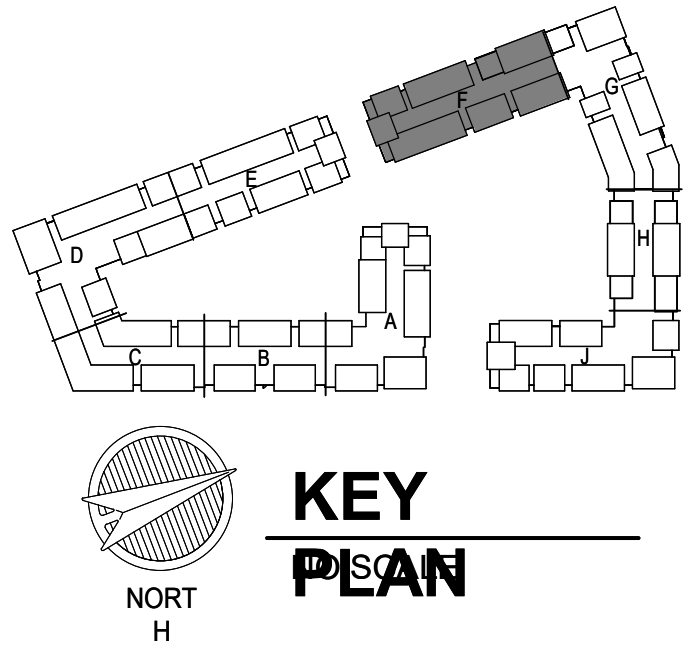
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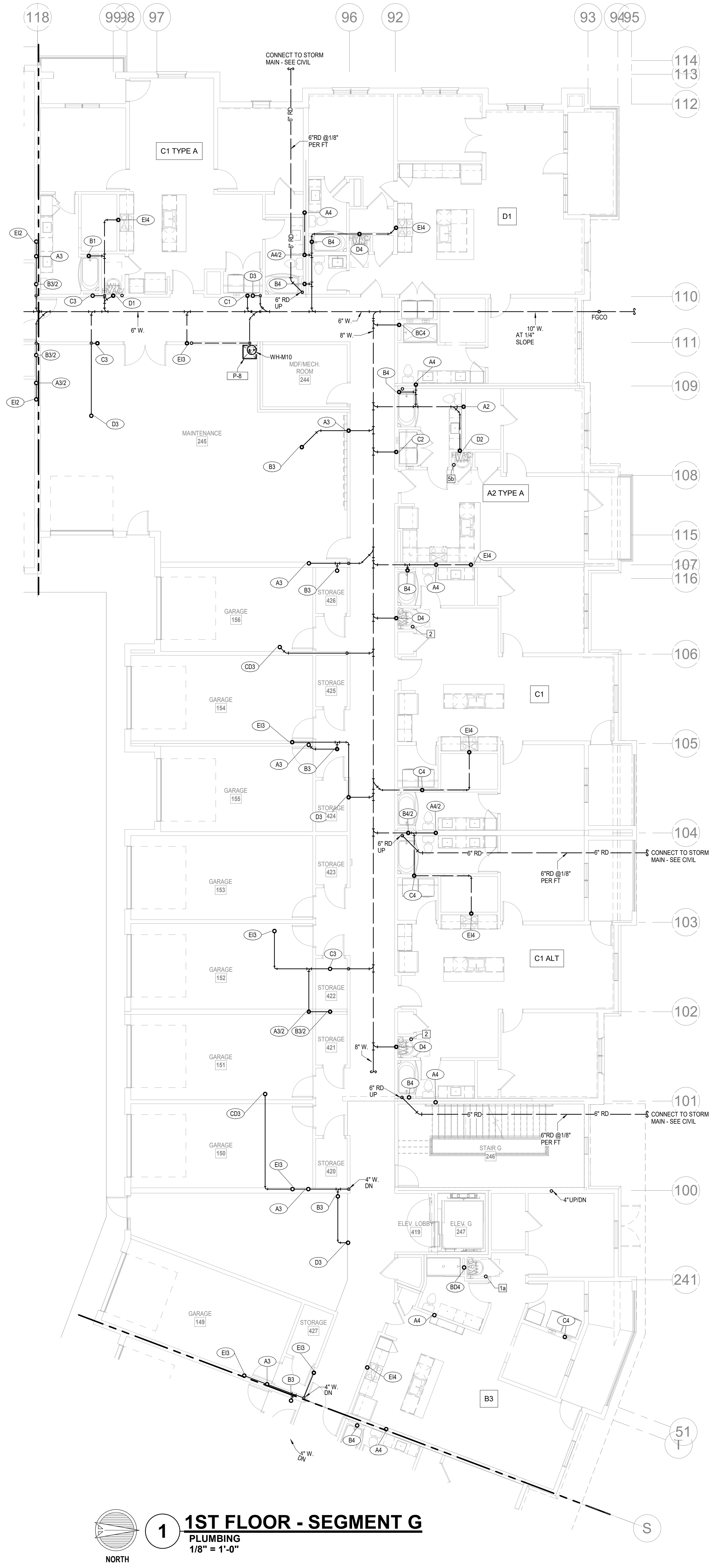
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CITY COMMENTS
SEGMENT F - ROOF PLAN -
PLUMBING
SHEET NO.

DATE
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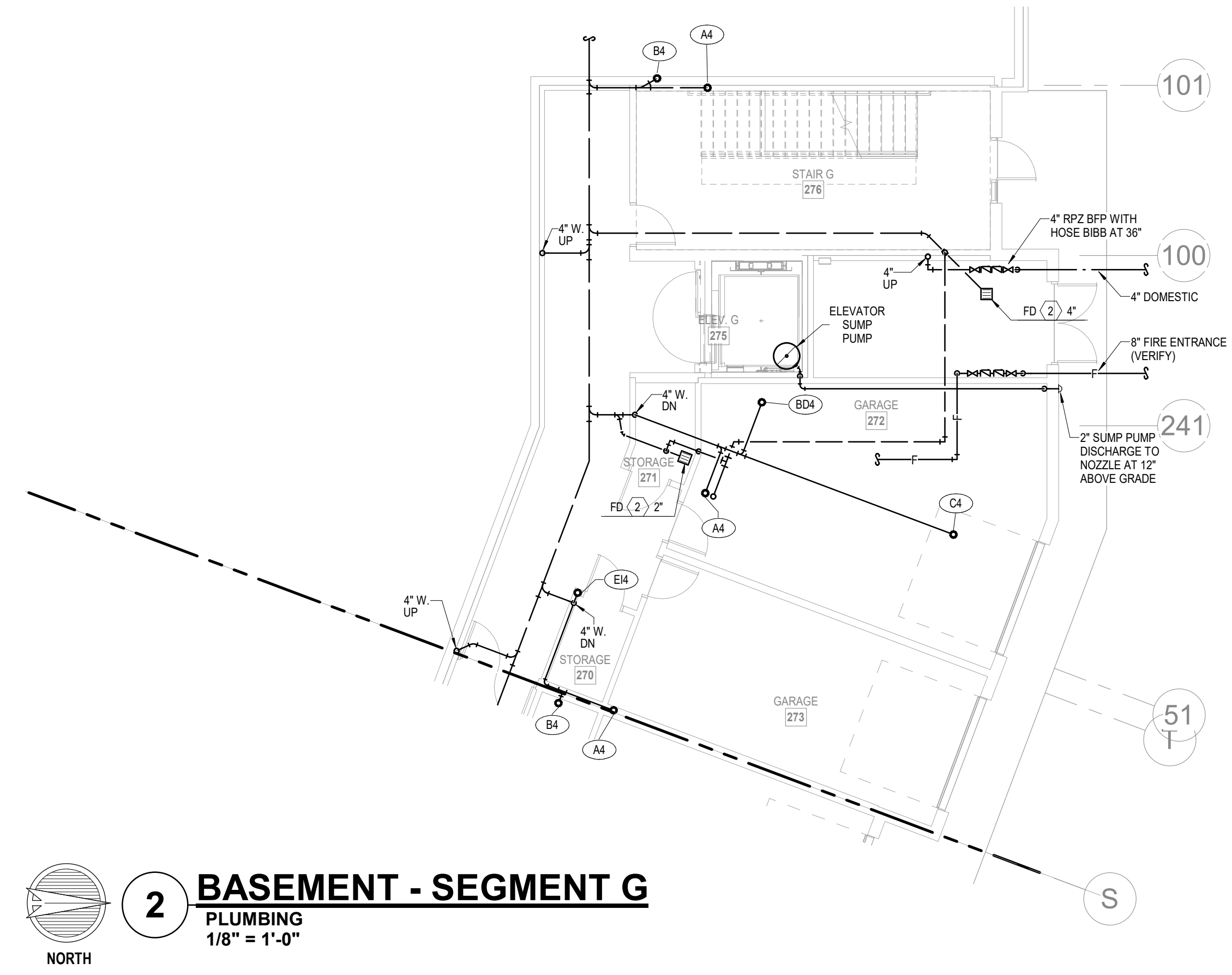
P1.28

4/13/2023 9:11:13 PM

ARCH E1 36" x 42"



 **1 1ST FLOOR - SEGMENT G**
PLUMBING
1/8" = 1'-0"



 **2 BASEMENT - SEGMENT G**
PLUMBING
1/8" = 1'-0"

- NOTES:**
1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
 2. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT 1/4" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
 3. ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
 4. ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
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 7. THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
 8. ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
 9. SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
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 12. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
 13. FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA. THIS INCLUDES A PROTECTED OR DRY SYSTEM FOR ANY UNHEATED AREAS. NO PIPE SHALL BE EXPOSED TO FREEZING TEMPERATURES.

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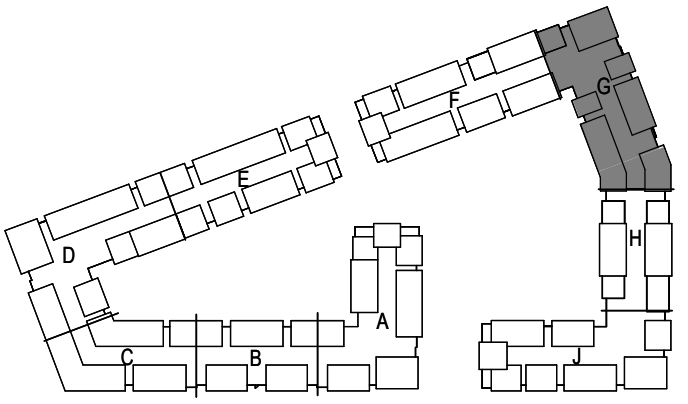
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 **KEY PLAN**

JOB NO.
705921

DATE
03.15.2023


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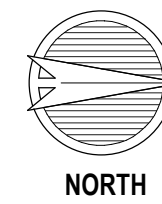
SHEET NAME
SEGMENT G - BASEMENT & 1ST FLOOR - PLUMBING

SHEET NO.
P1.29


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Lester S. Anderson & Associates P.A.
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Telephone: (785) 233-3332
Email: lsan@lsapa.com
LSA PROJECT NO. 2204061



1 2ND FLOOR - SEGMENT G
PLUMBING
1/8" = 1'-0"



2 3RD FLOOR - SEGMENT G
PLUMBING
1/8" = 1'-0"

- ## A NEW RESIDENTIAL COMMUNITY AT:

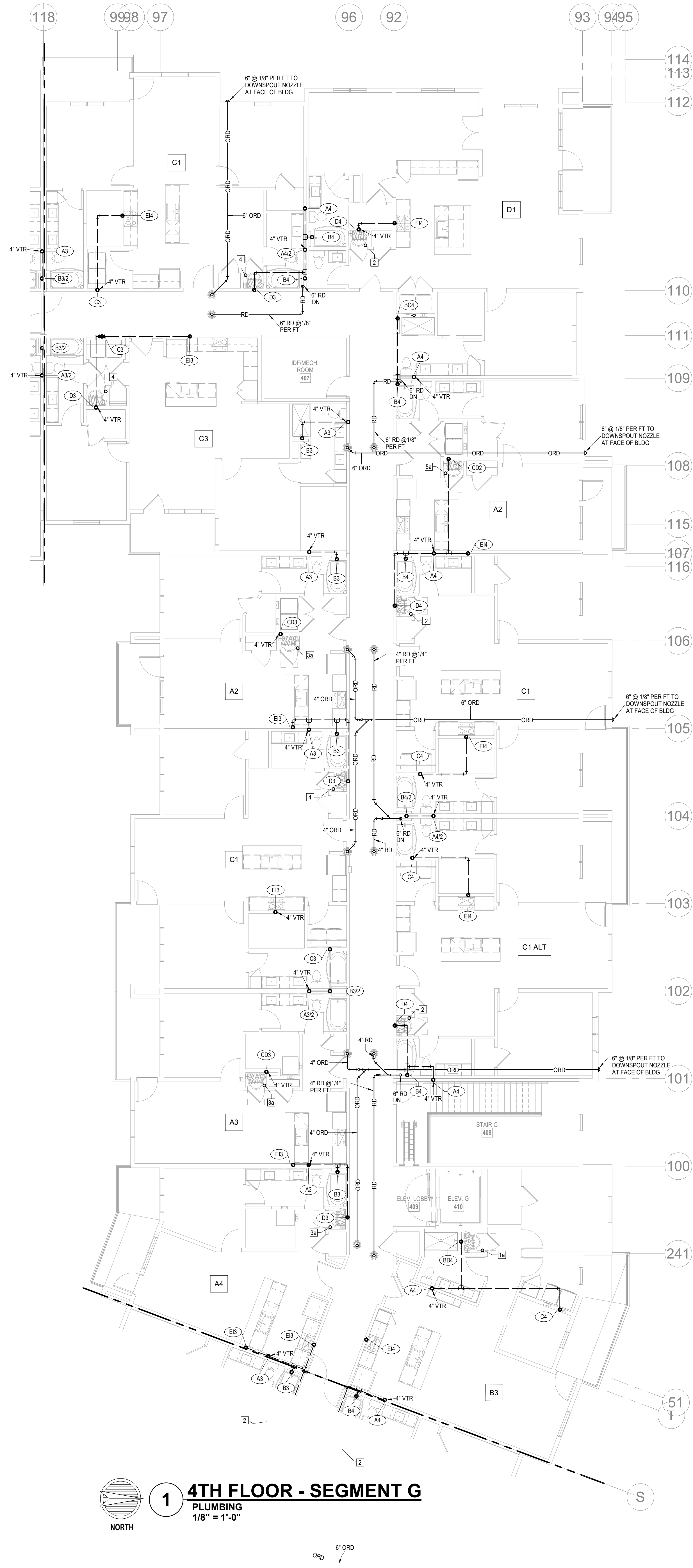
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4/11/2023
CITY COMMENTS
SHEET NAME
SEGMENT G - 2ND & 3RD
FLOOR - PLUMBING
SHEET NO.

P1.30



- NOTES:**
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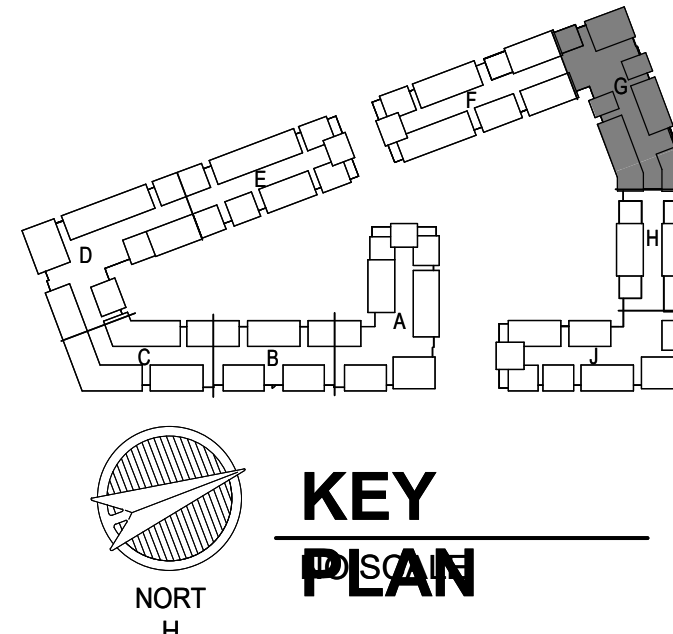
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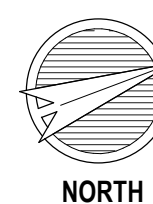
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& Associates P.A.
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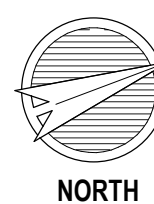
JOB NO. 705921
DRAWN BY LSA CAD
4/11/2023
CITY COMMENTS
SHEET NAME
SEGMENT G - 4TH FLOOR & ROOF PLAN - PLUMBING
SHEET NO.

DATE 03.15.2023

P1.31



1 1ST FLOOR - SEGMENT H
PLUMBING
1/8" = 1'-0"



2 BASEMENT - SEGMENT H

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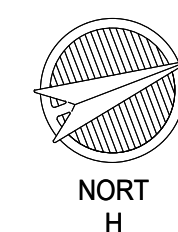
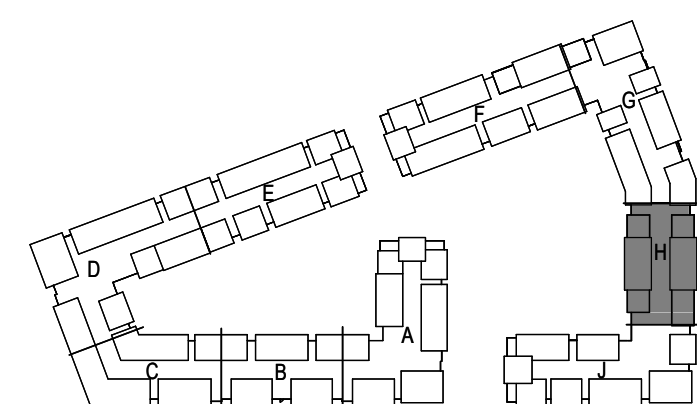


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JOB NO. 705921 DATE 03.15.2023

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CITY COMMENTS

SEGMENT H - BASEMENT &

1ST FLOOR - PLUMBING
SHEET NO.

D1 20

P.32

1102





1 3RD FLOOR - SEGMENT H
PLUMBING
1/8" = 1'-0"



2 2ND FLOOR - SEGMENT H
PLUMBING
1/8" = 1'-0"

- | NOTES: | |
|--------|--|
| 1. | COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING. |
| 2. | ALL DRIN. WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT 1/2" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE. |
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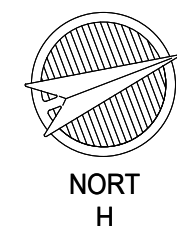
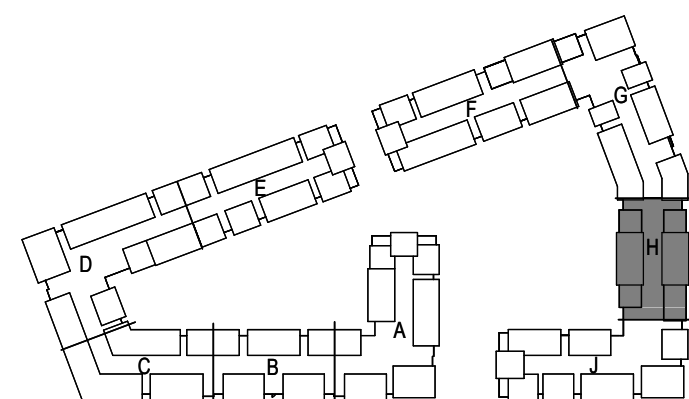


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KEY TO SCALE



JOB NO. 705921 DATE 03.15.2023

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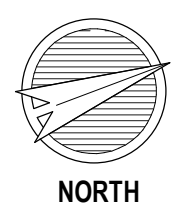
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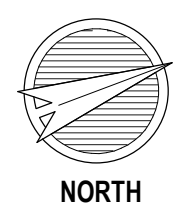
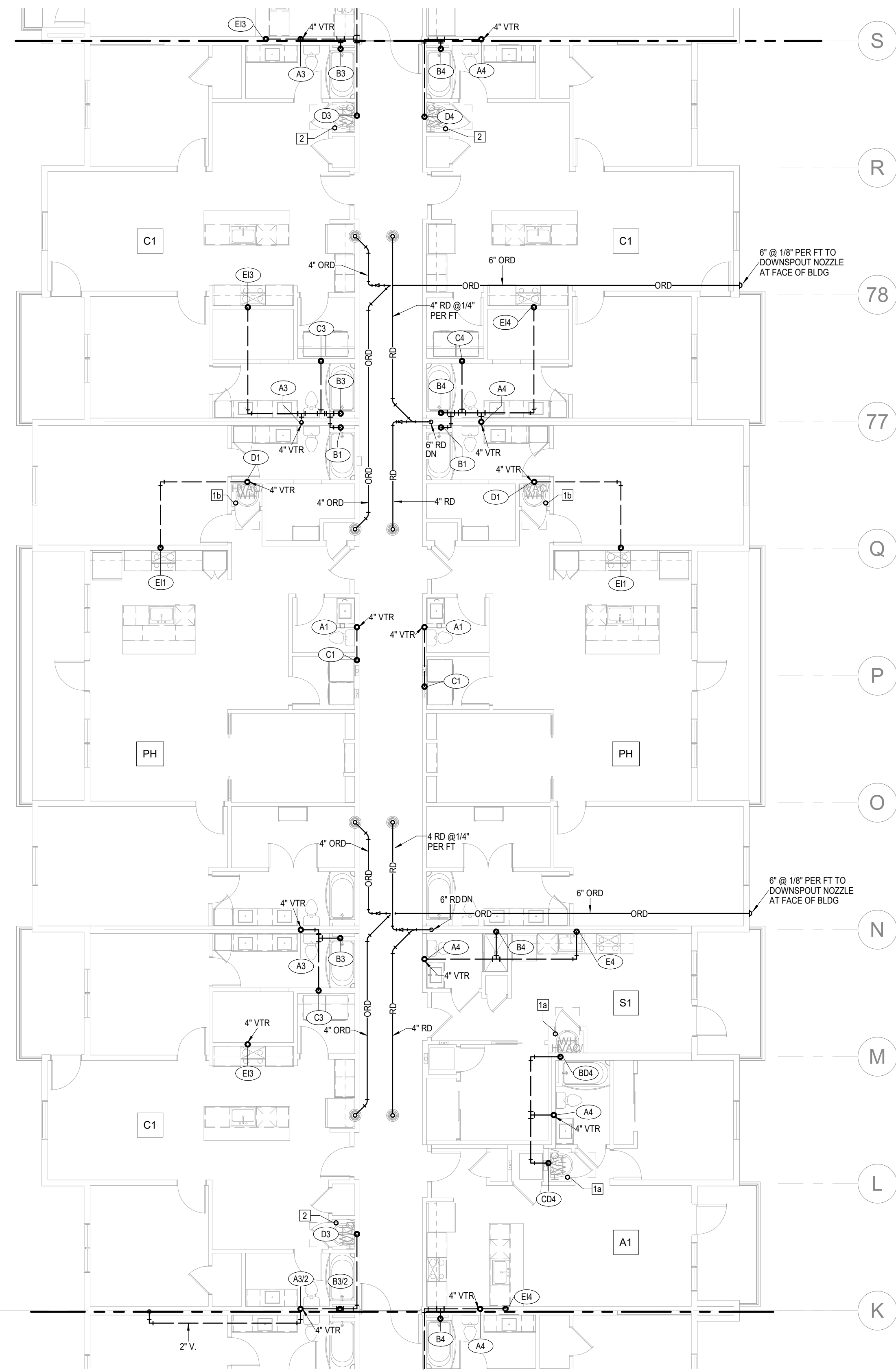
SHEET NAME
**SEGMENT H - 2ND & 3RD
FLOOR - PLUMBING**

SHEET NO.

P1.33



1 ROOF PLAN - SEGMENT H PLUMBING 1/8" = 1'-0"



2 4TH FLOOR - SEGMENT H PLUMBING 1/8" = 1'-0"

- NOTES:
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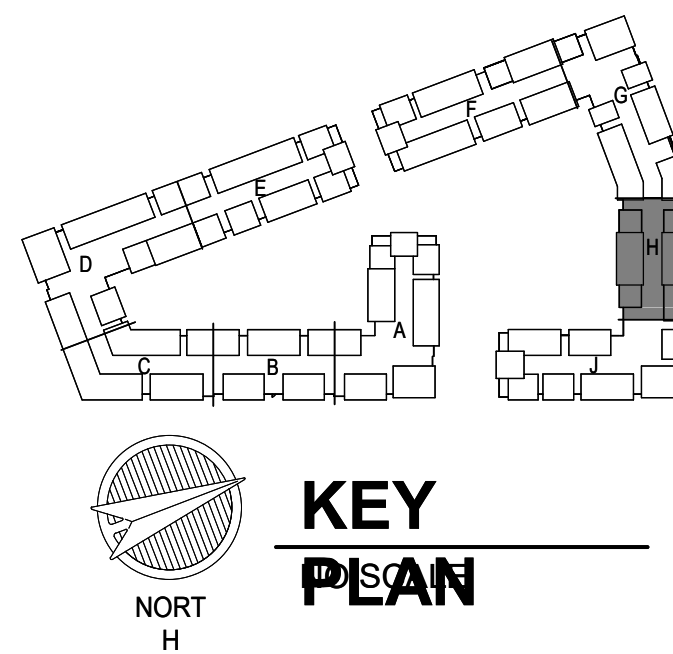
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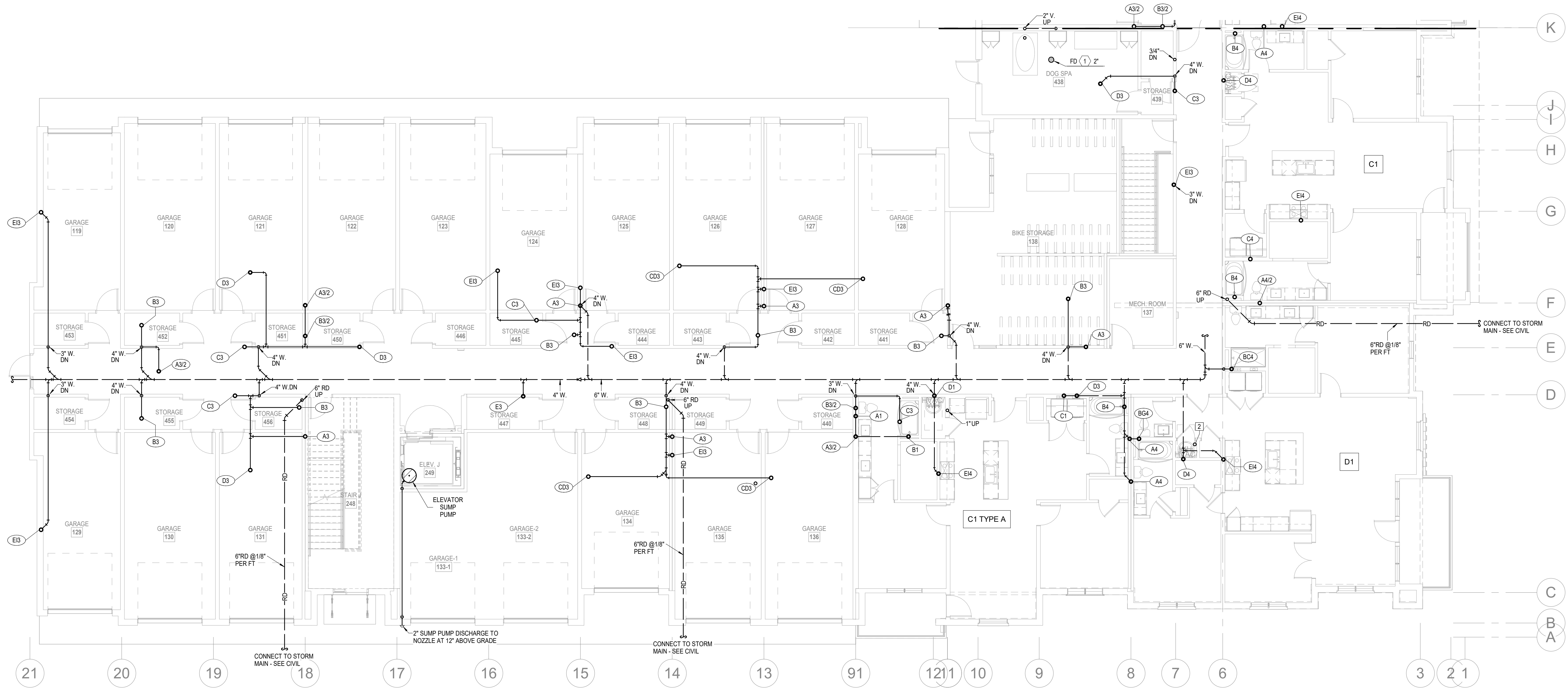


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8625 College Boulevard, Suite 102
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Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

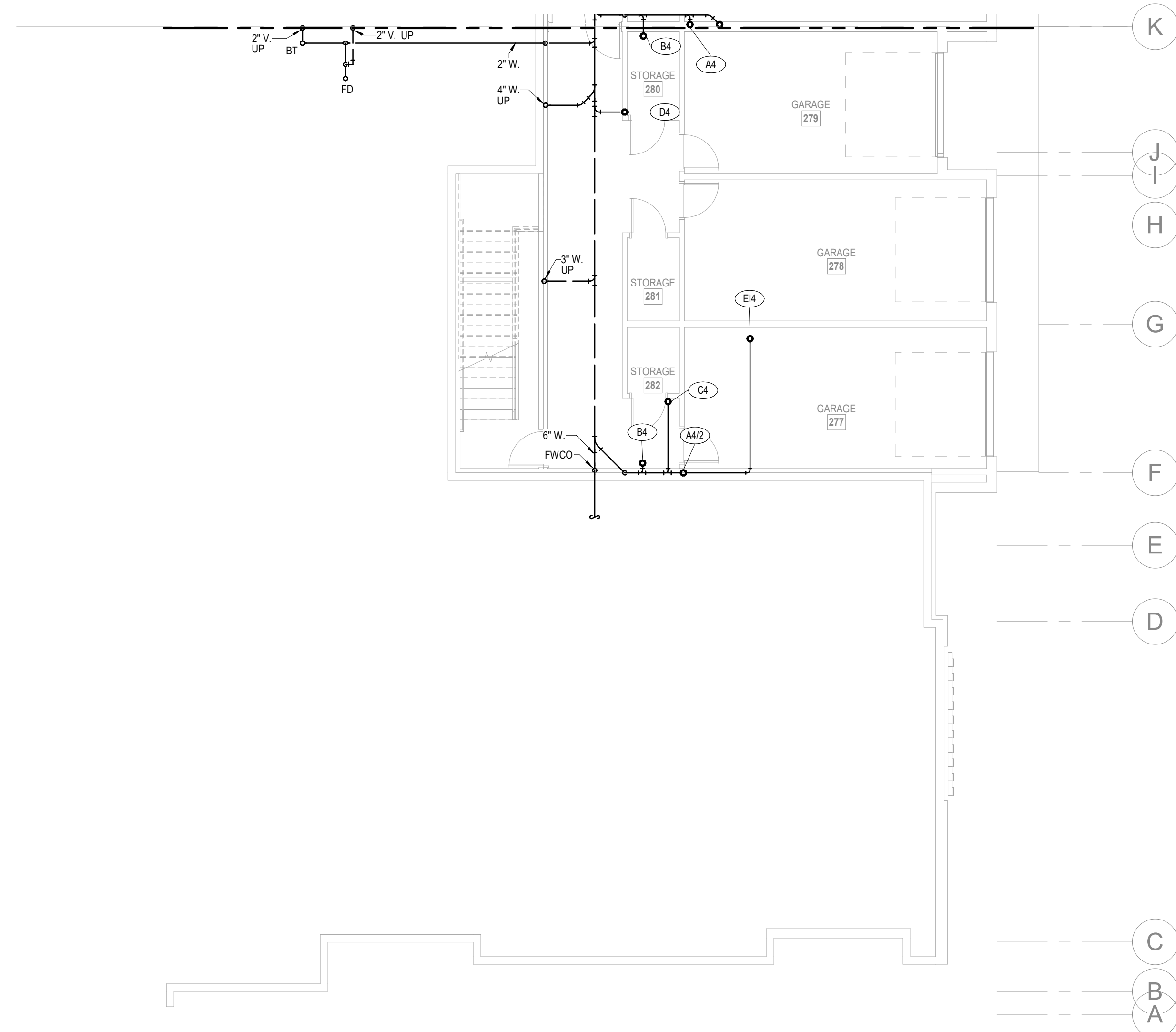
JOB NO. 705921
DRAWN BY LSA CAD
4/11/2023
SHEET NAME
SEGMENT H - 4TH FLOOR & ROOF PLAN - PLUMBING
SHEET NO.

P1.34

ARCH E1 30' x 42' 4/13/2023 9:11:33 PM



1 1ST FLOOR - SEGMENT J
PLUMBING
1/8" = 1'-0"



2 BASEMENT - SEGMENT J
PLUMBING
1/8" = 1'-0"

- NOTES:**
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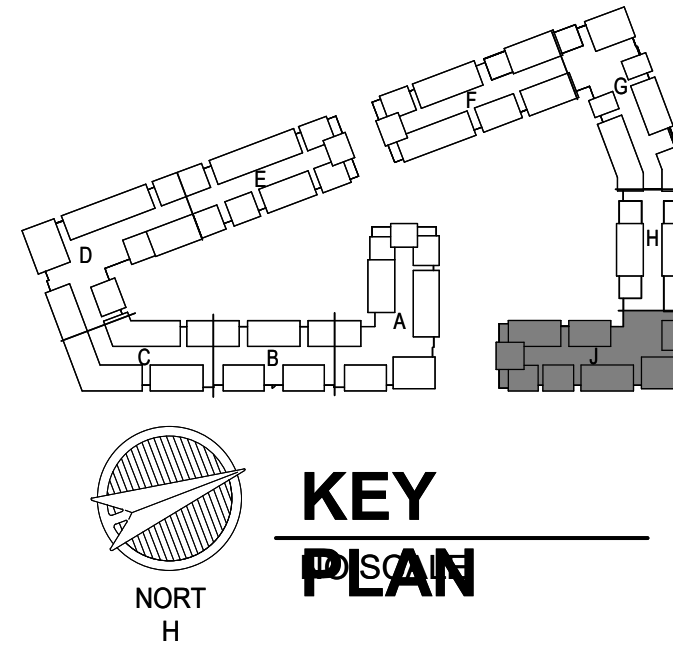
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LSA PROJECT NO. 2204061

JOB NO. 705921
DATE 03.15.2023

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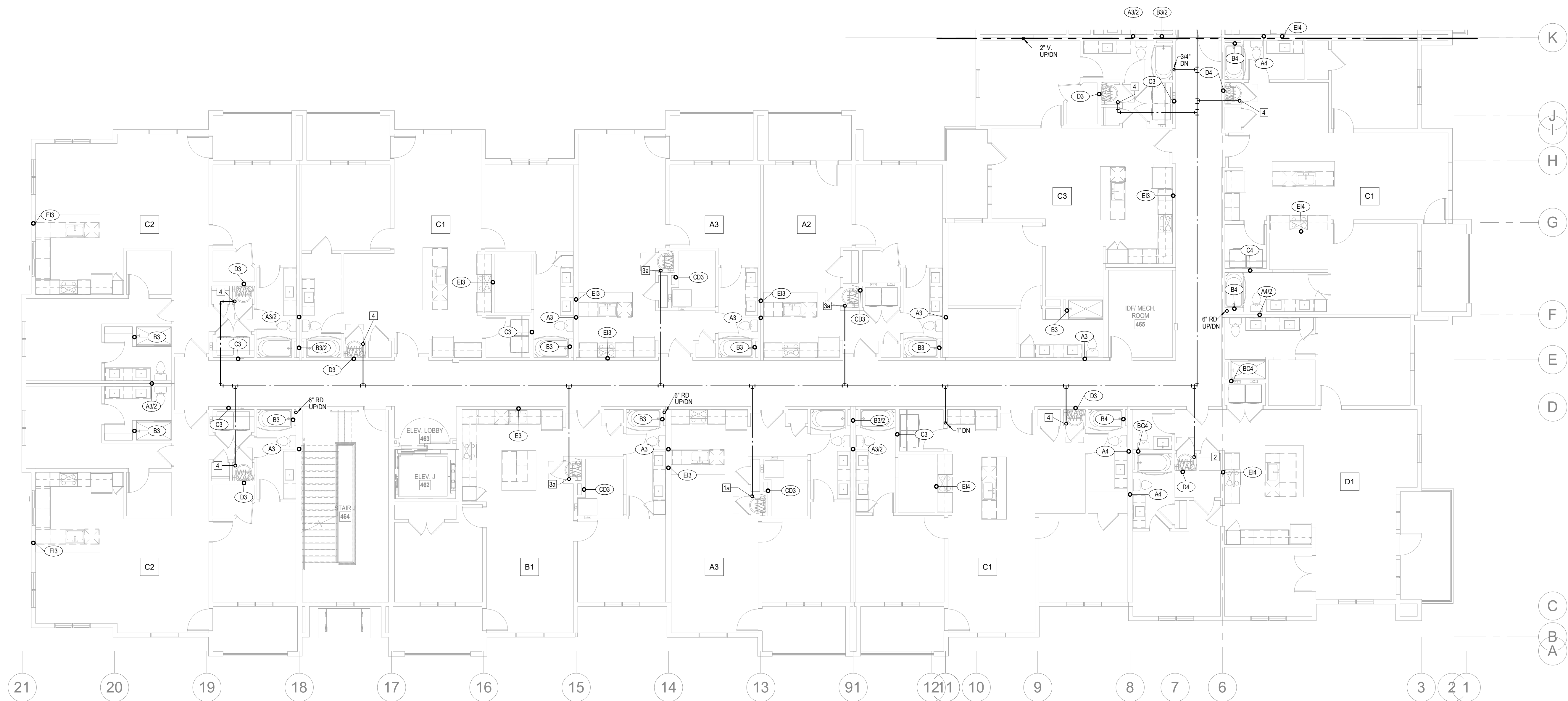
4/11/2023

SHEET NAME CITY COMMENTS

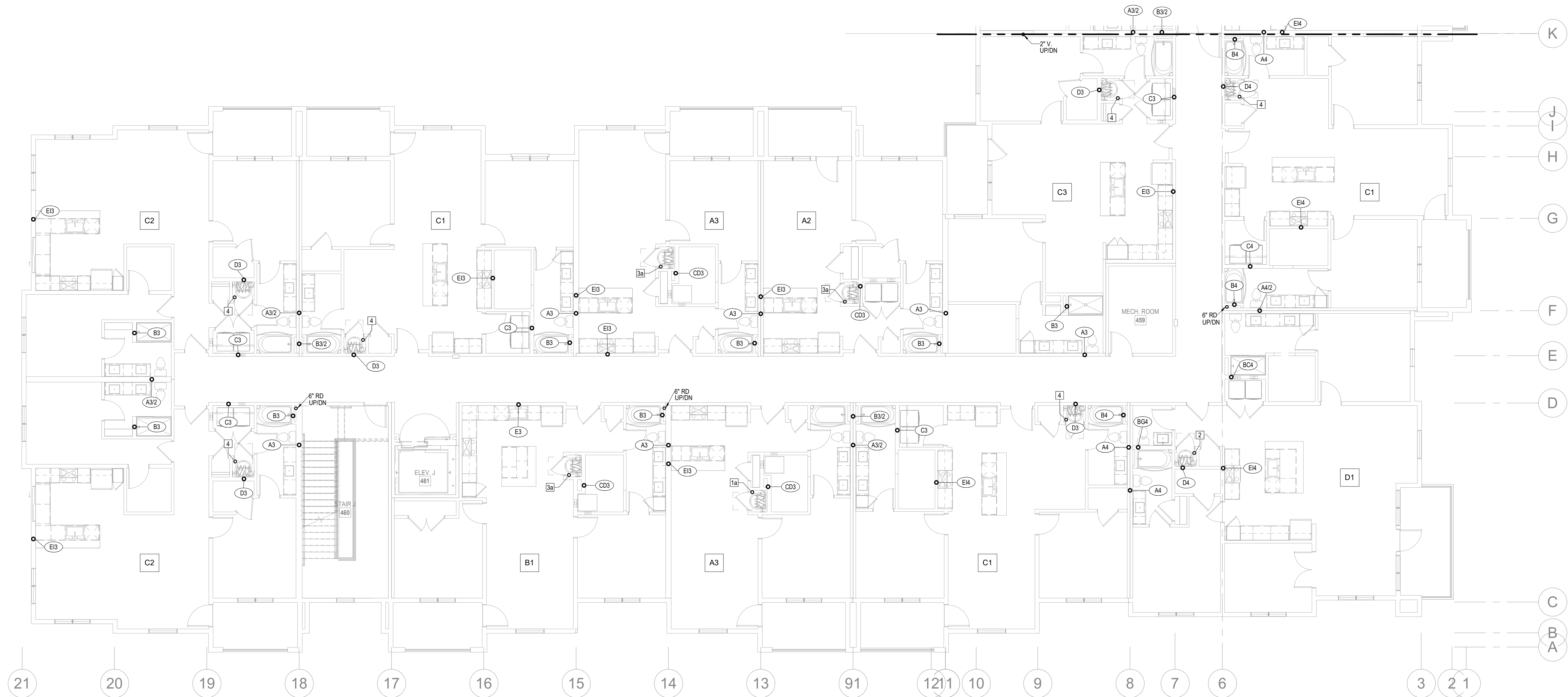
SEGMENT J - BASEMENT & 1ST FLOOR - PLUMBING

SHEET NO.

P1.35



1 2ND FLOOR - SEGMENT J
PLUMBING
1/8" = 1'-0"



2 3RD FLOOR - SEGMENT J
PLUMBING
1/8" = 1'-0"

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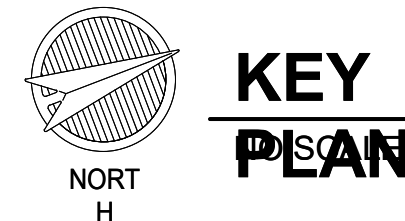
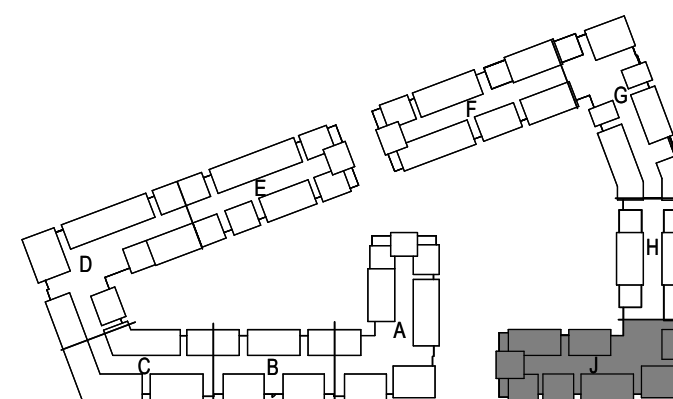
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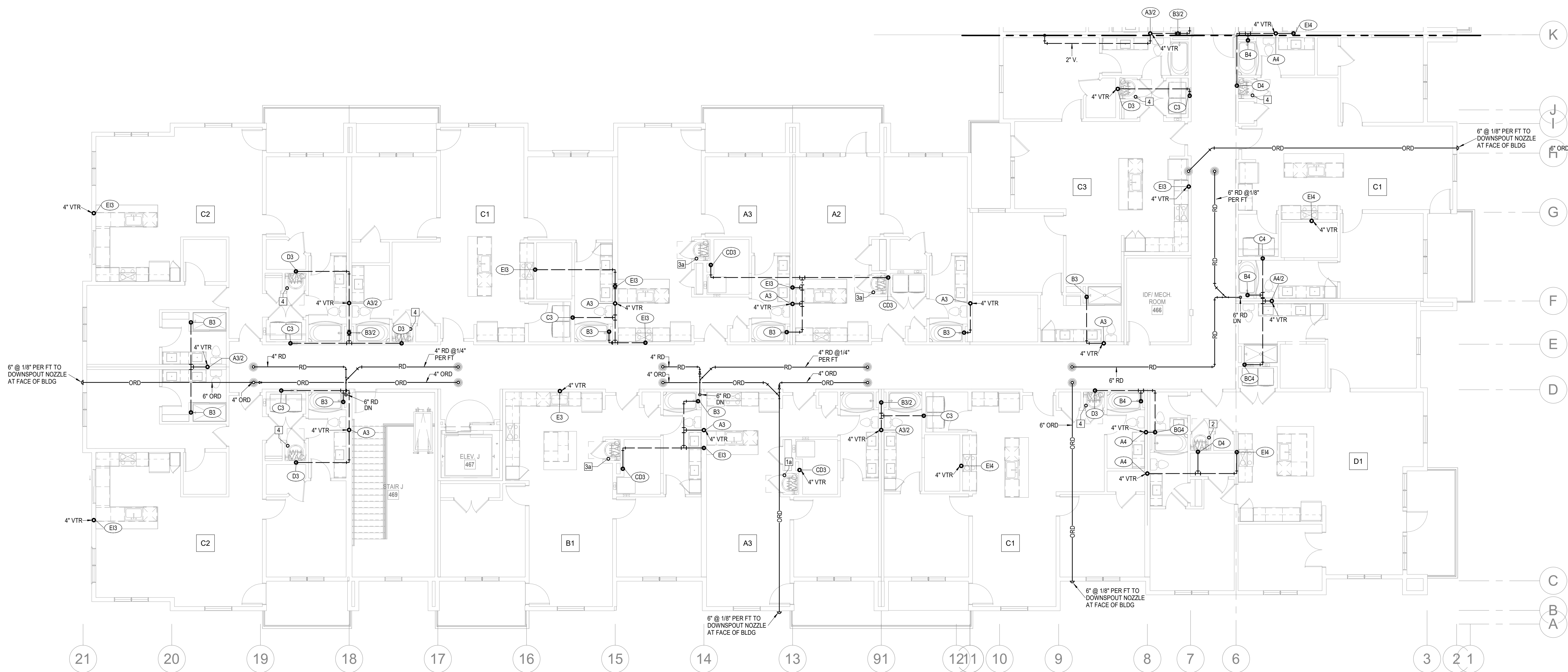


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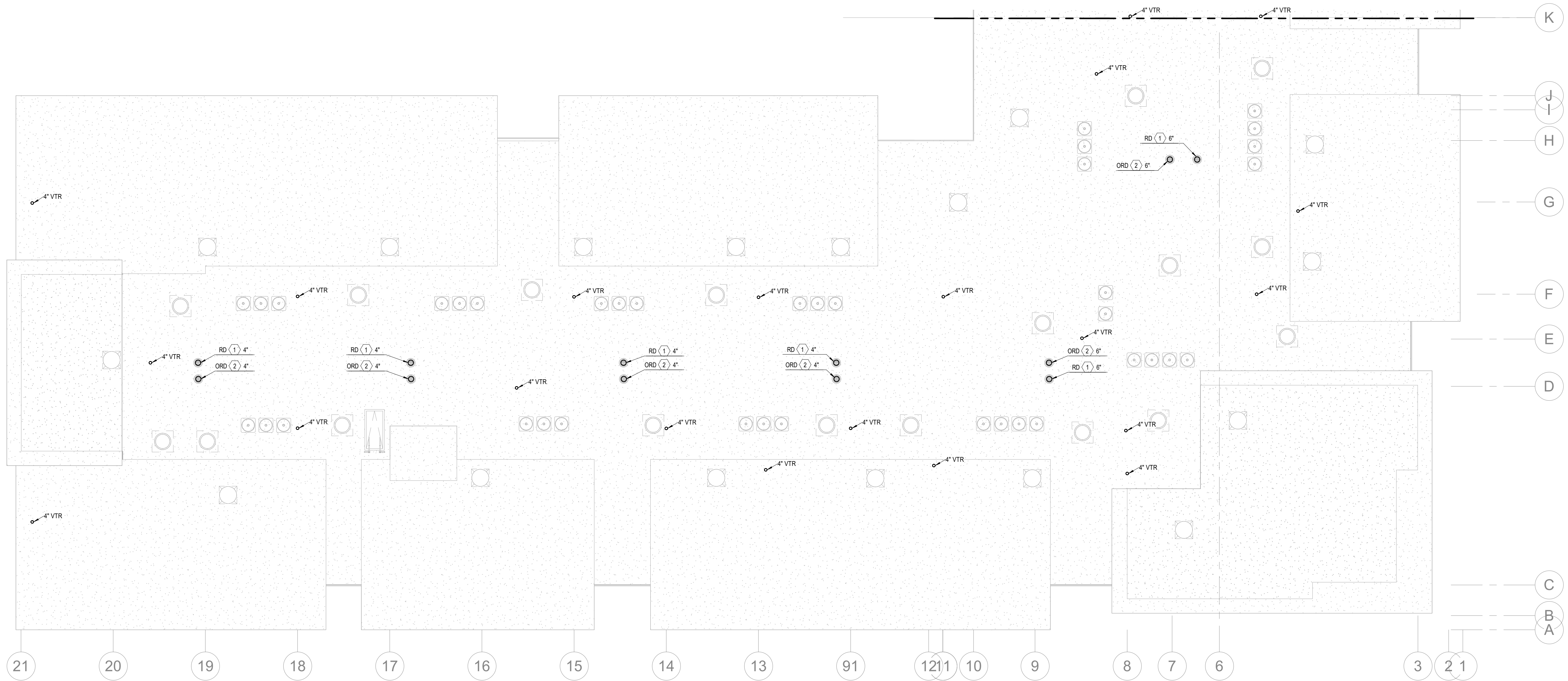
JOB NO. 705921
DRAWN BY LSA CAD
4/11/2023

SHEET NAME
SEGMENT J - 2ND & 3RD
FLOOR - PLUMBING
SHEET NO.

P1.36



1 4TH FLOOR - SEGMENT J
PLUMBING
1/8" = 1'-0"



2 ROOF PLAN - SEGMENT J
PLUMBING
1/8" = 1'-0"

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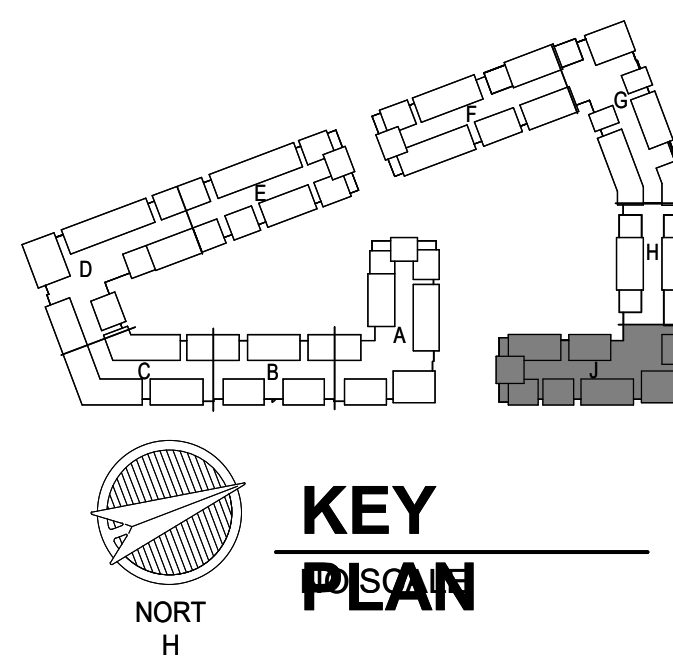
A NEW RESIDENTIAL COMMUNITY AT:

TRIOLOGY

800 & 810 NW WARD RD. | LEE'S SUMMIT, MO

DRAWING RELEASE LOG
03.15.2023 - PERMIT SUBMITTAL

REVISIONS

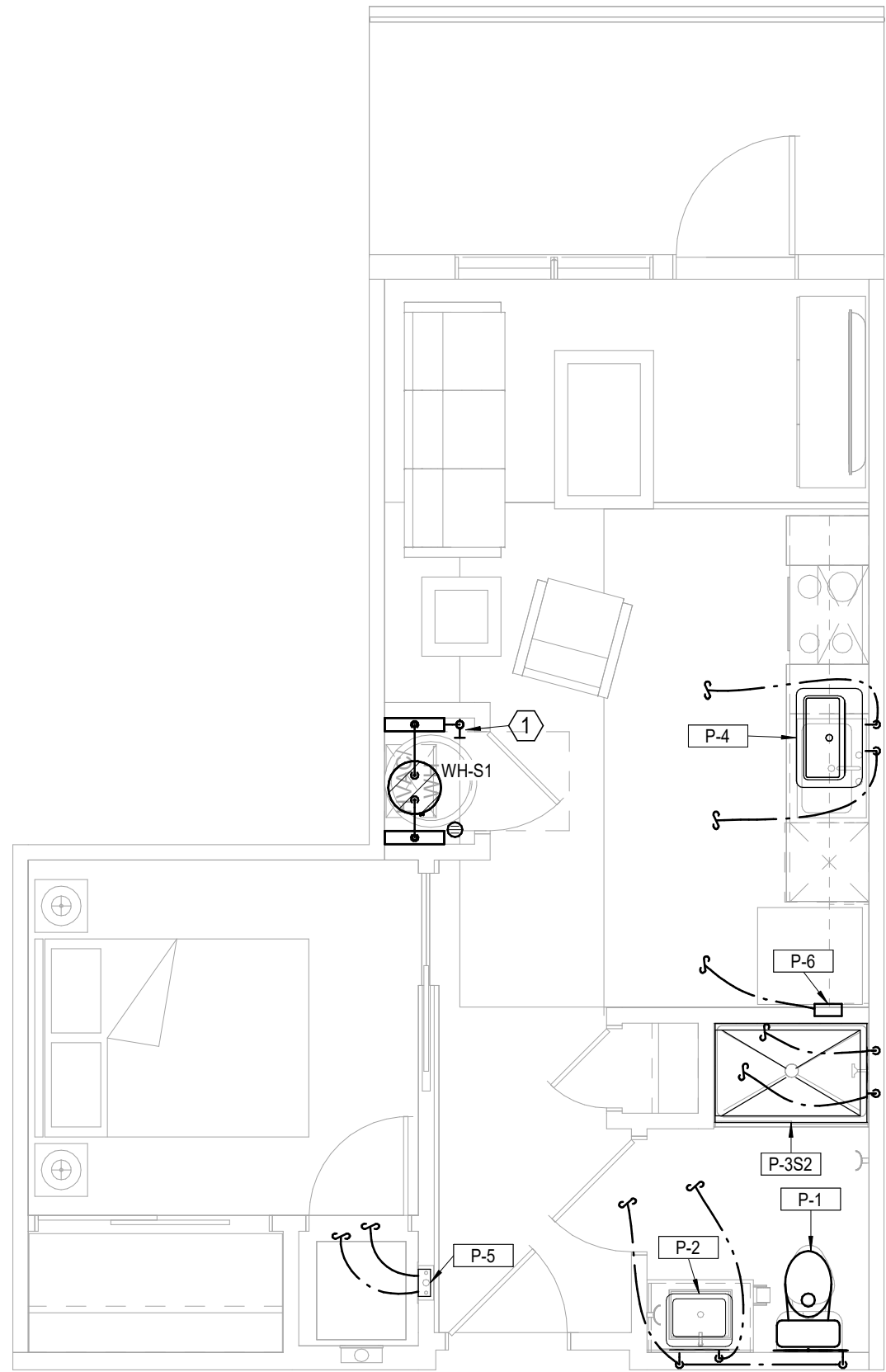


LS&A
Consulting Engineers
3039 SW Summerfield Drive, Suite A
Topeka, Kansas 66619-3974
6625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3332
Email: lsap@lsapa.com
LSA PROJECT NO. 2204061

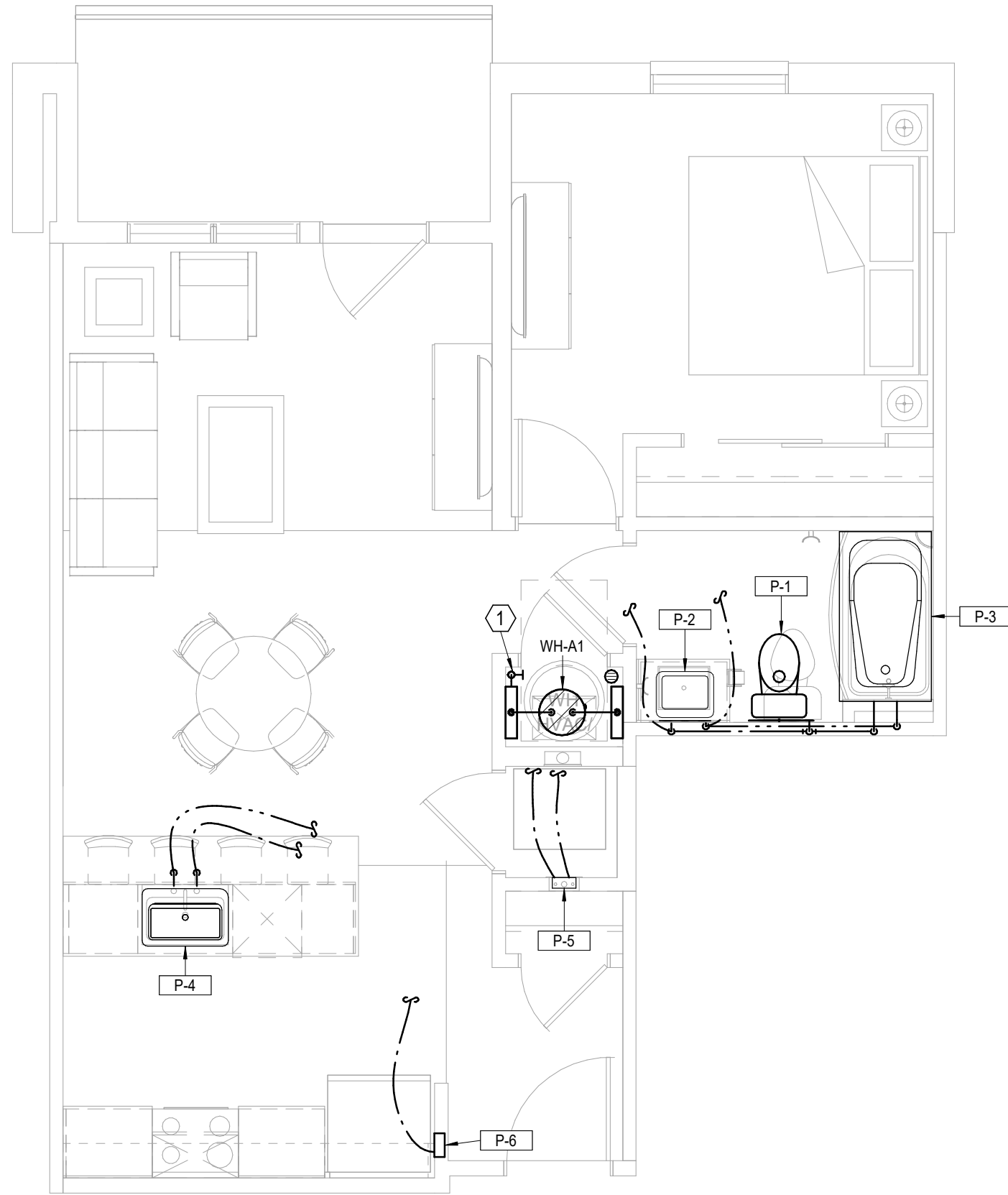
JOB NO. 705921
DRAWN BY LSA CAD
4/11/2023
CITY COMMENTS
SEGMENT J - 4TH FLOOR & ROOF PLAN - PLUMBING
SHEET NO.

DATE 03.15.2023
SHEET NAME
SHEET NO.

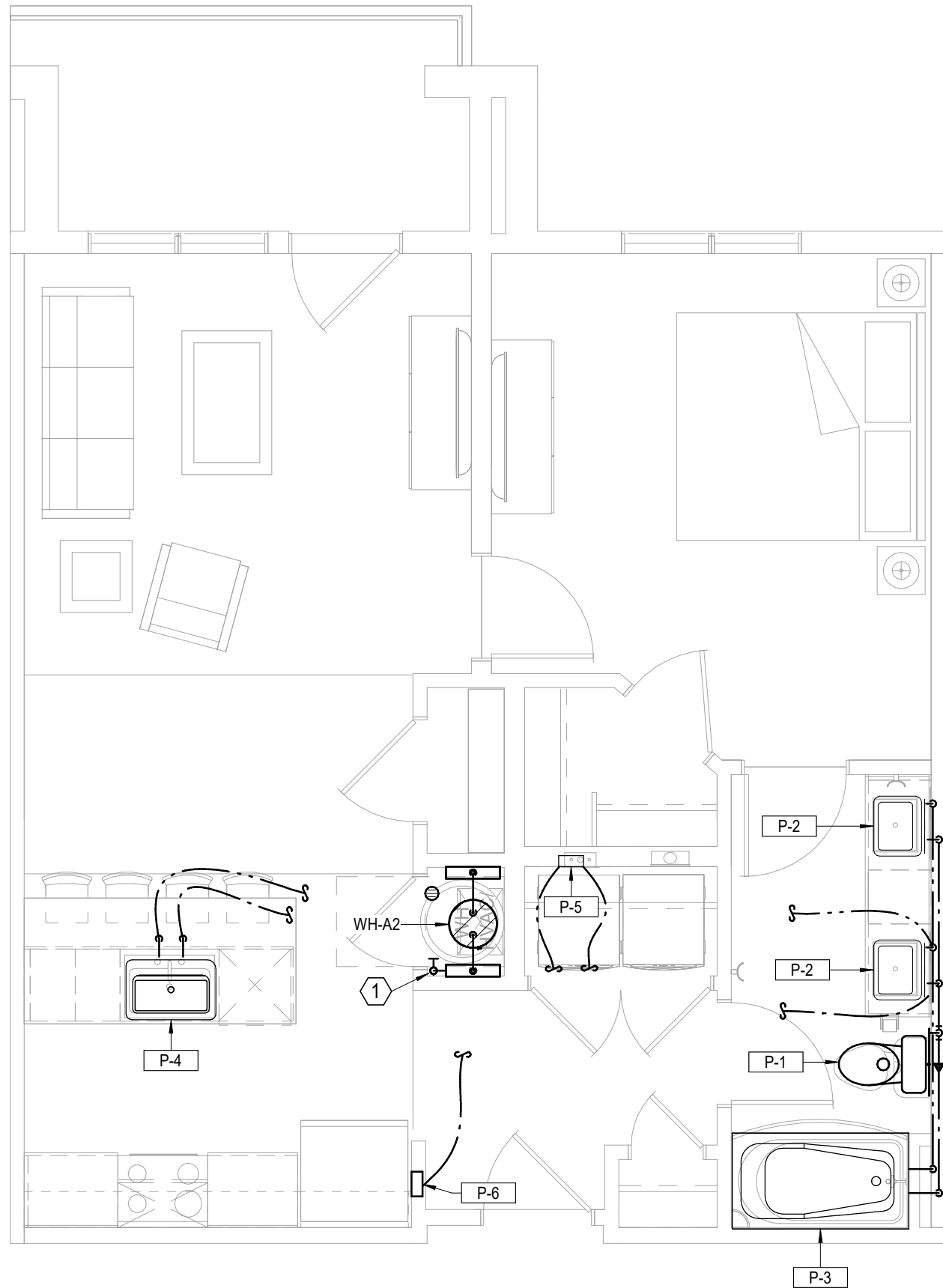
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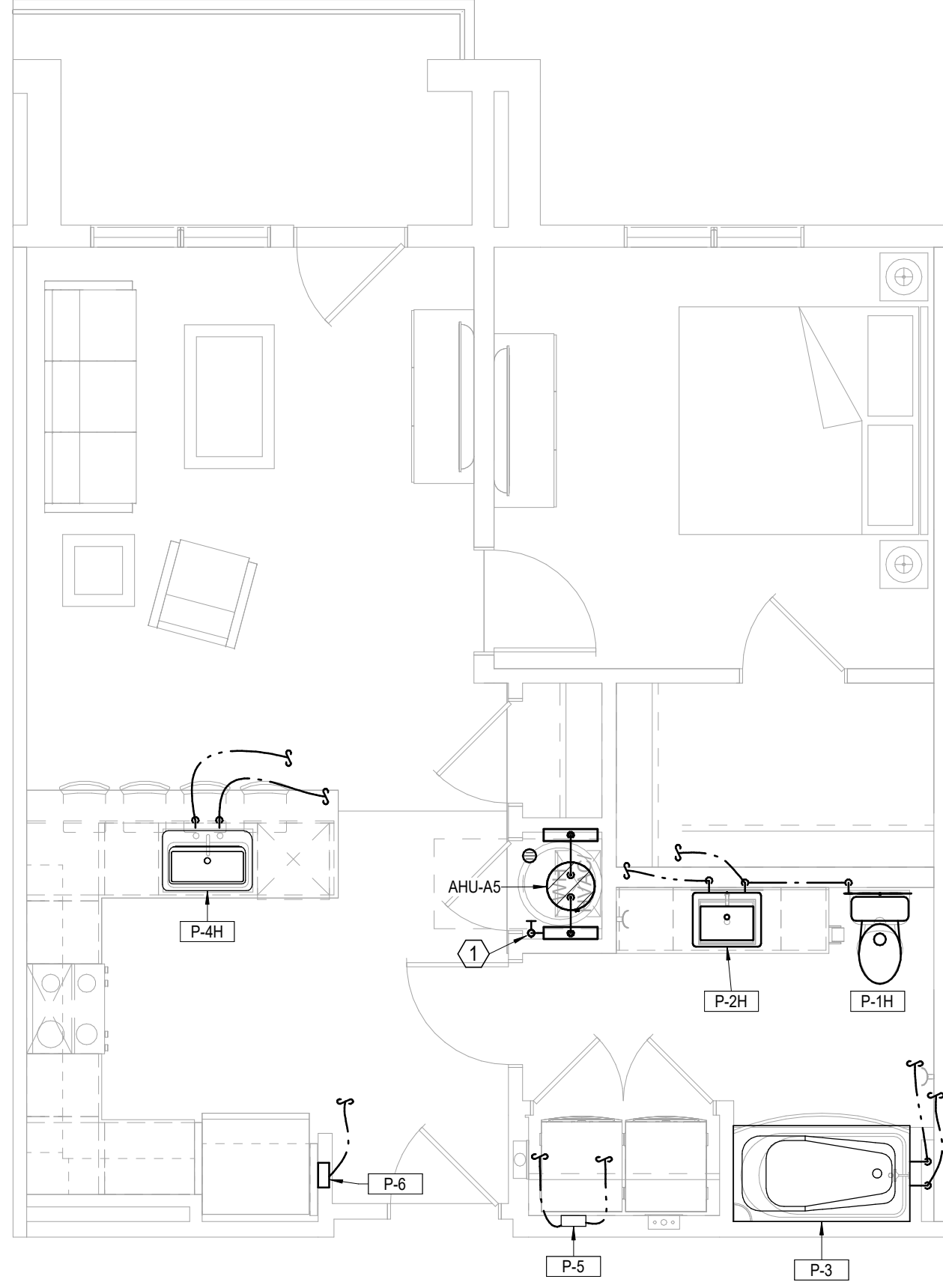
1 **UNIT S1**
PLUMBING
1/4" = 1'-0"



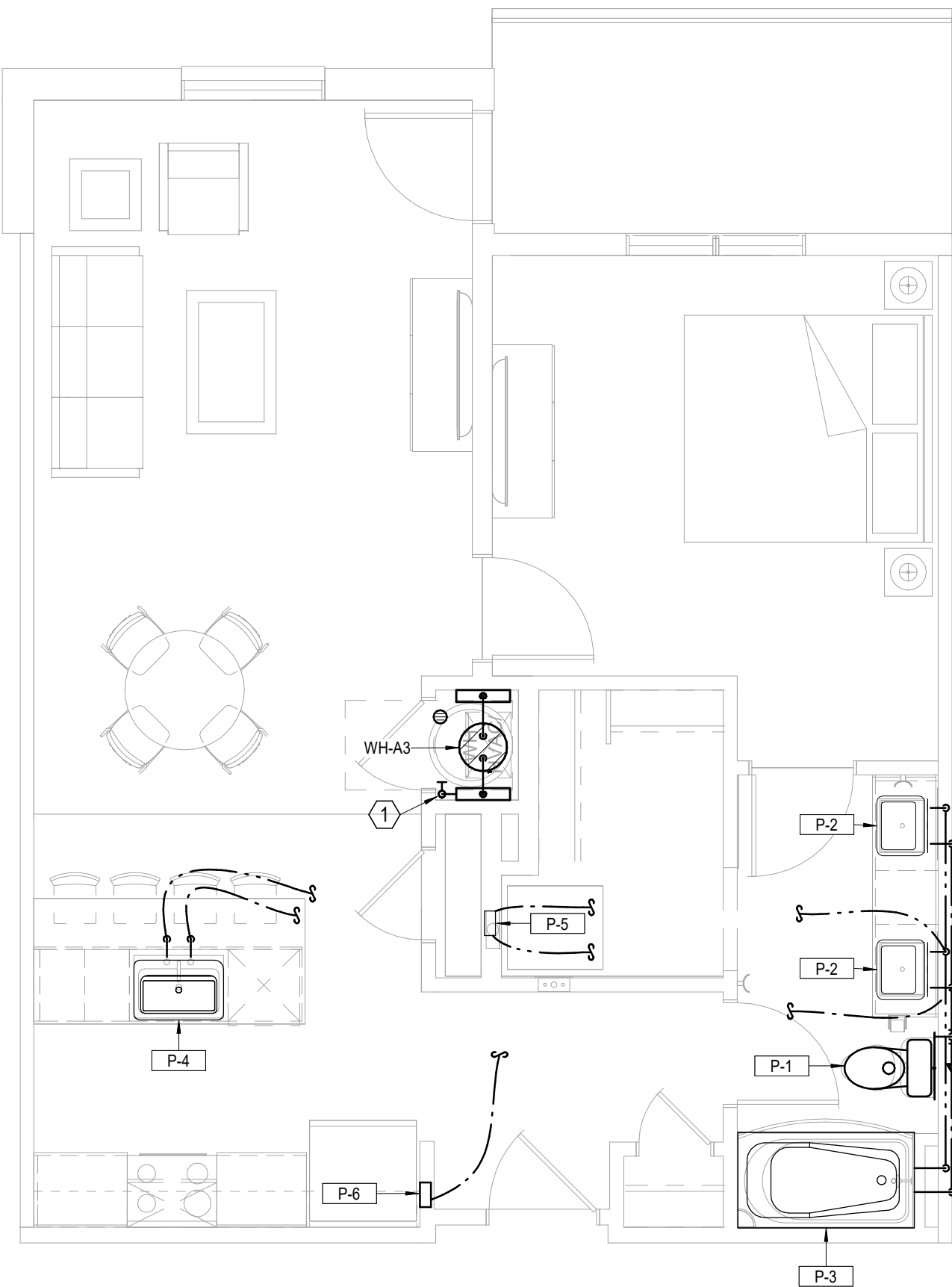
2 **UNIT A1**
PLUMBING
1/4" = 1'-0"



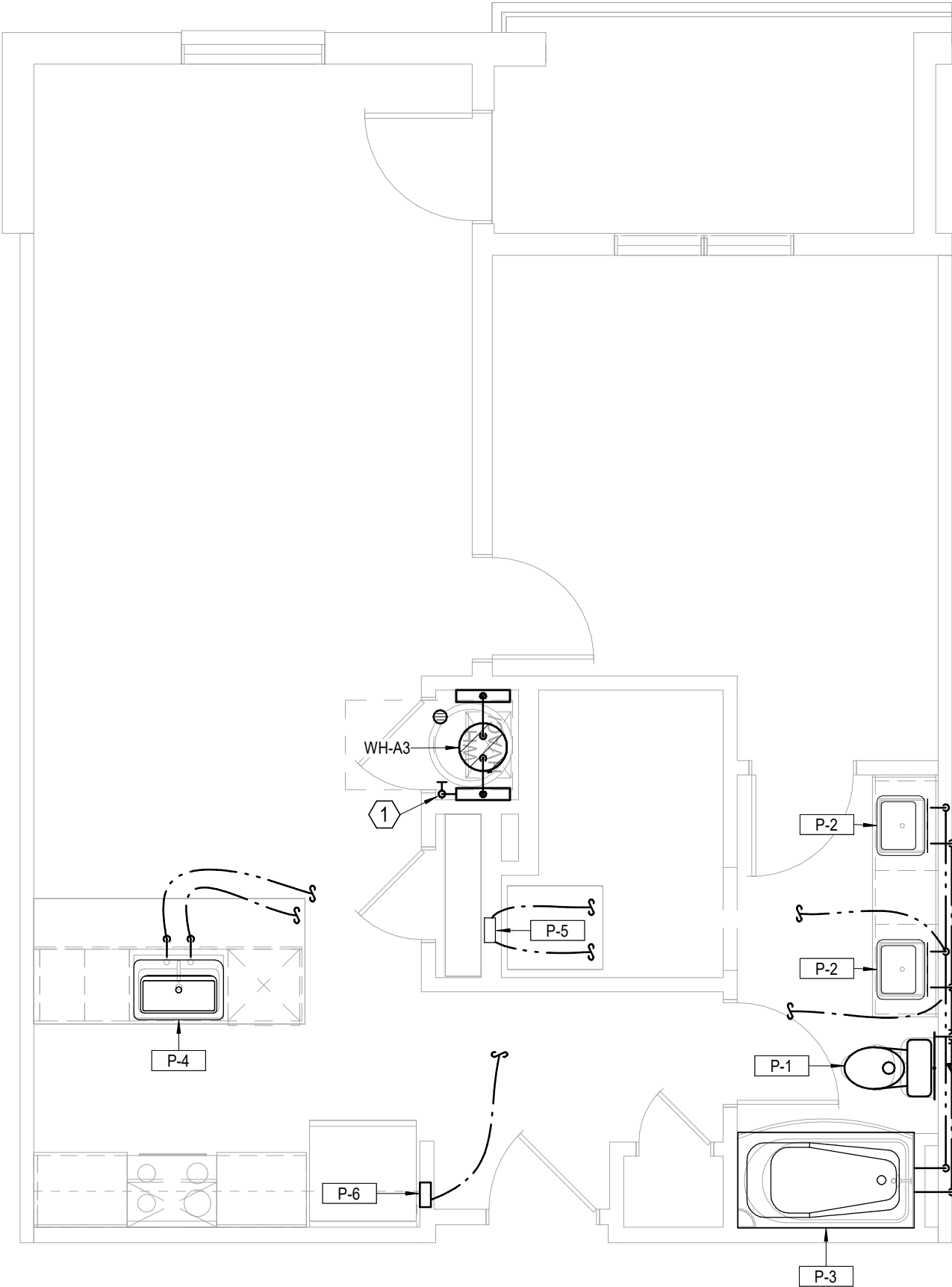
3 **UNIT A2**
PLUMBING
1/4" = 1'-0"



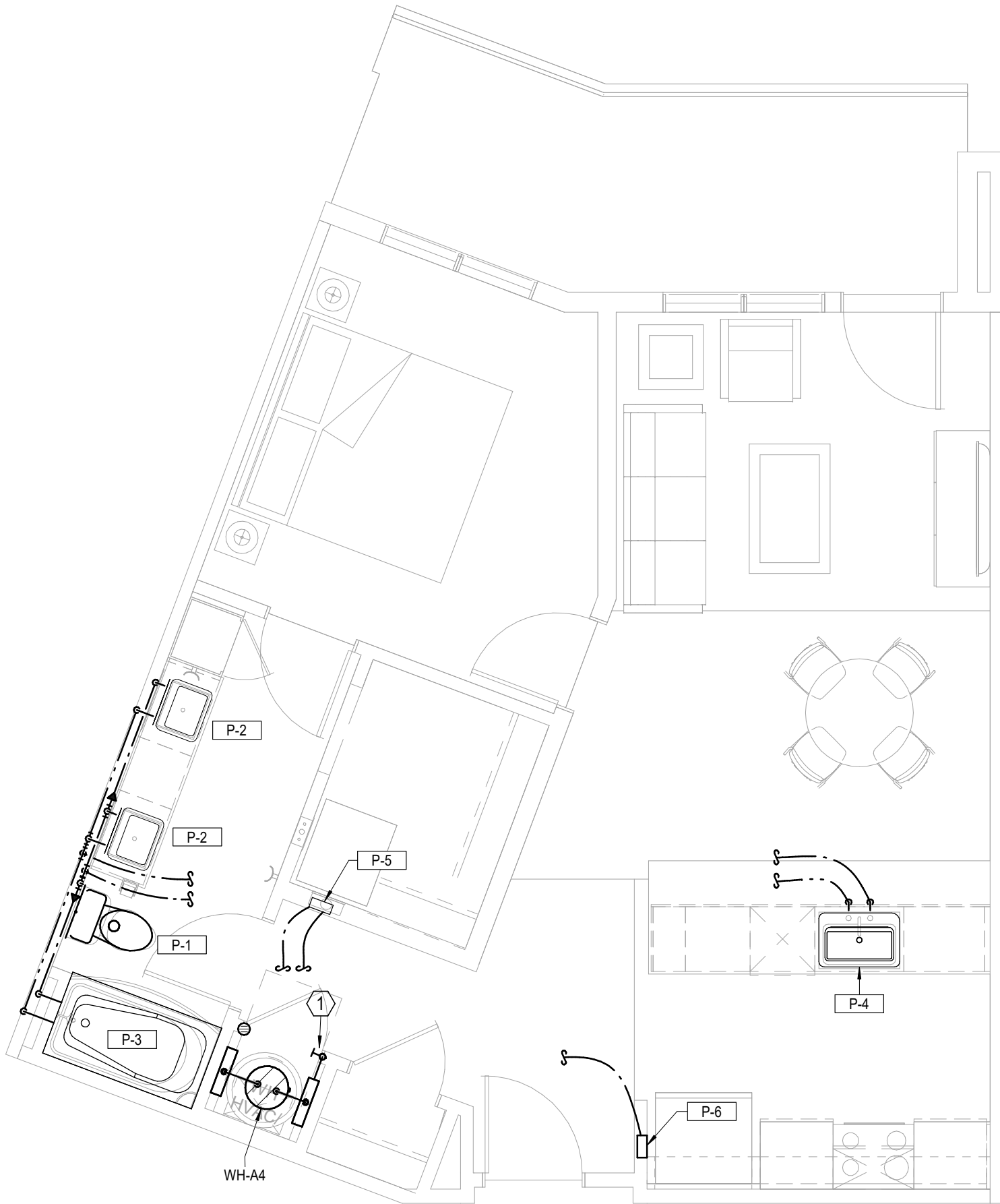
4 **UNIT A2 TYPE A**
PLUMBING
1/4" = 1'-0"



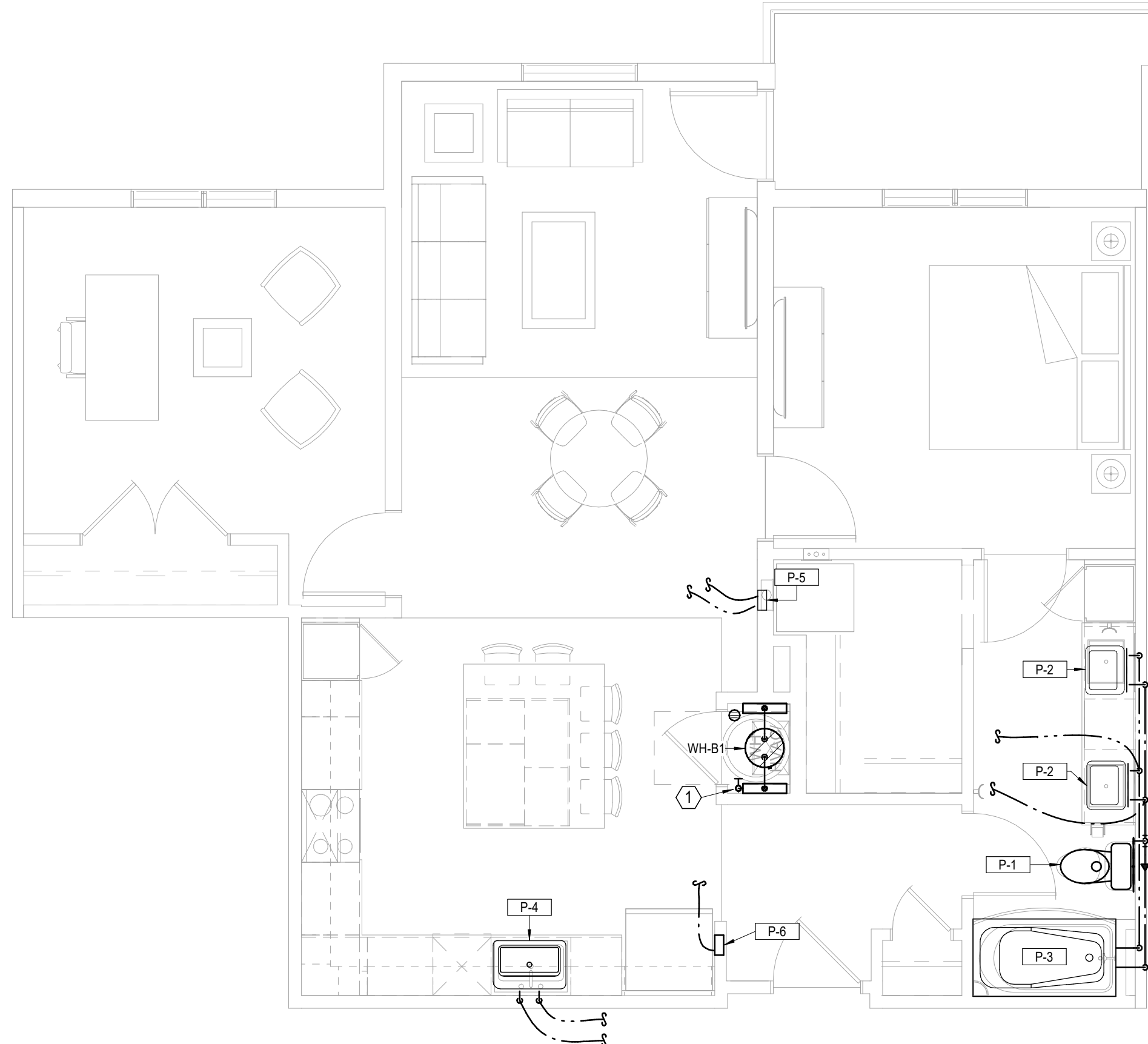
5 **UNIT A3**
PLUMBING
1/4" = 1'-0"



6 **UNIT A3 ALT 1**
PLUMBING
1/4" = 1'-0"

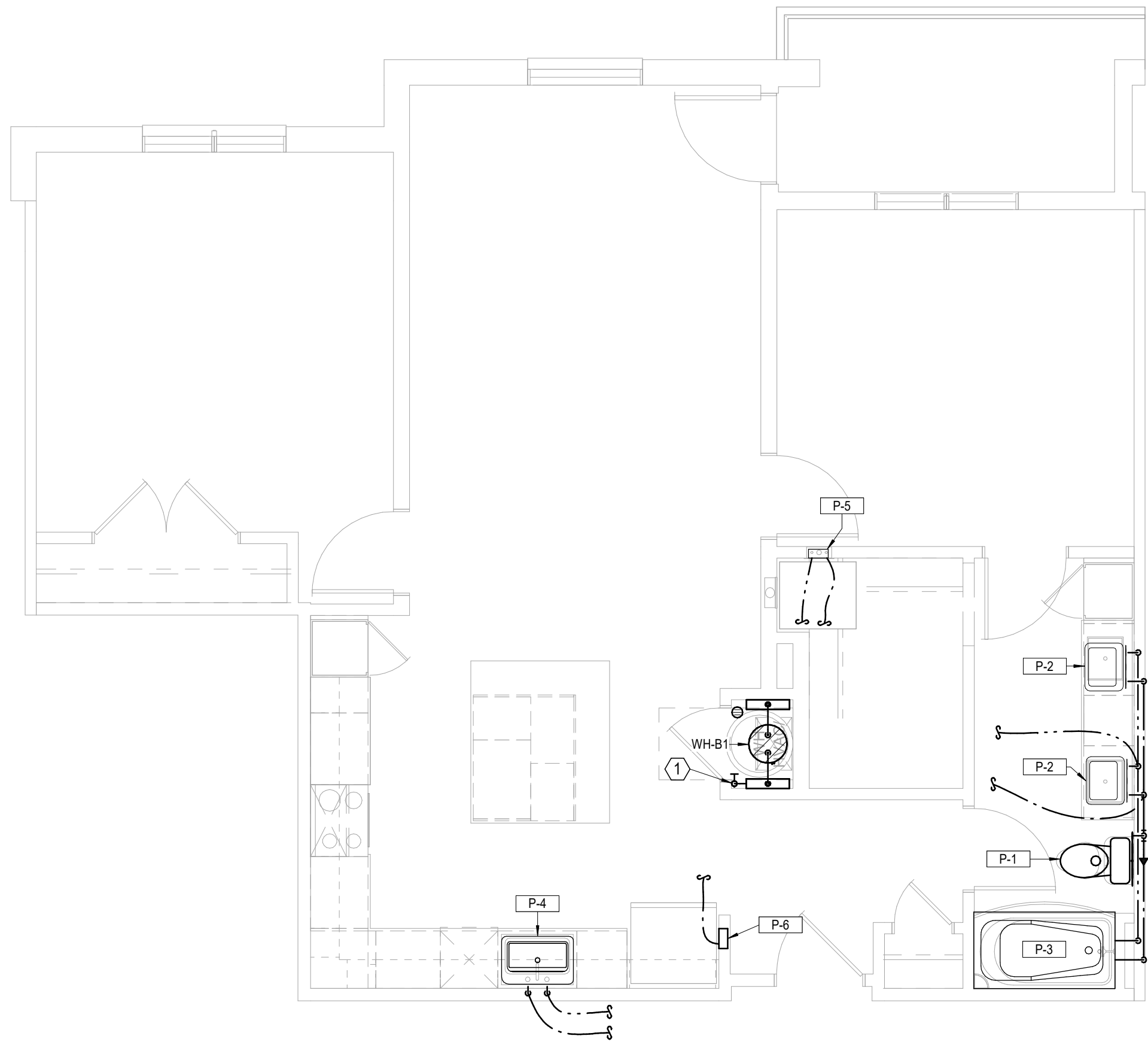


7 **UNIT A4**
PLUMBING
1/4" = 1'-0"

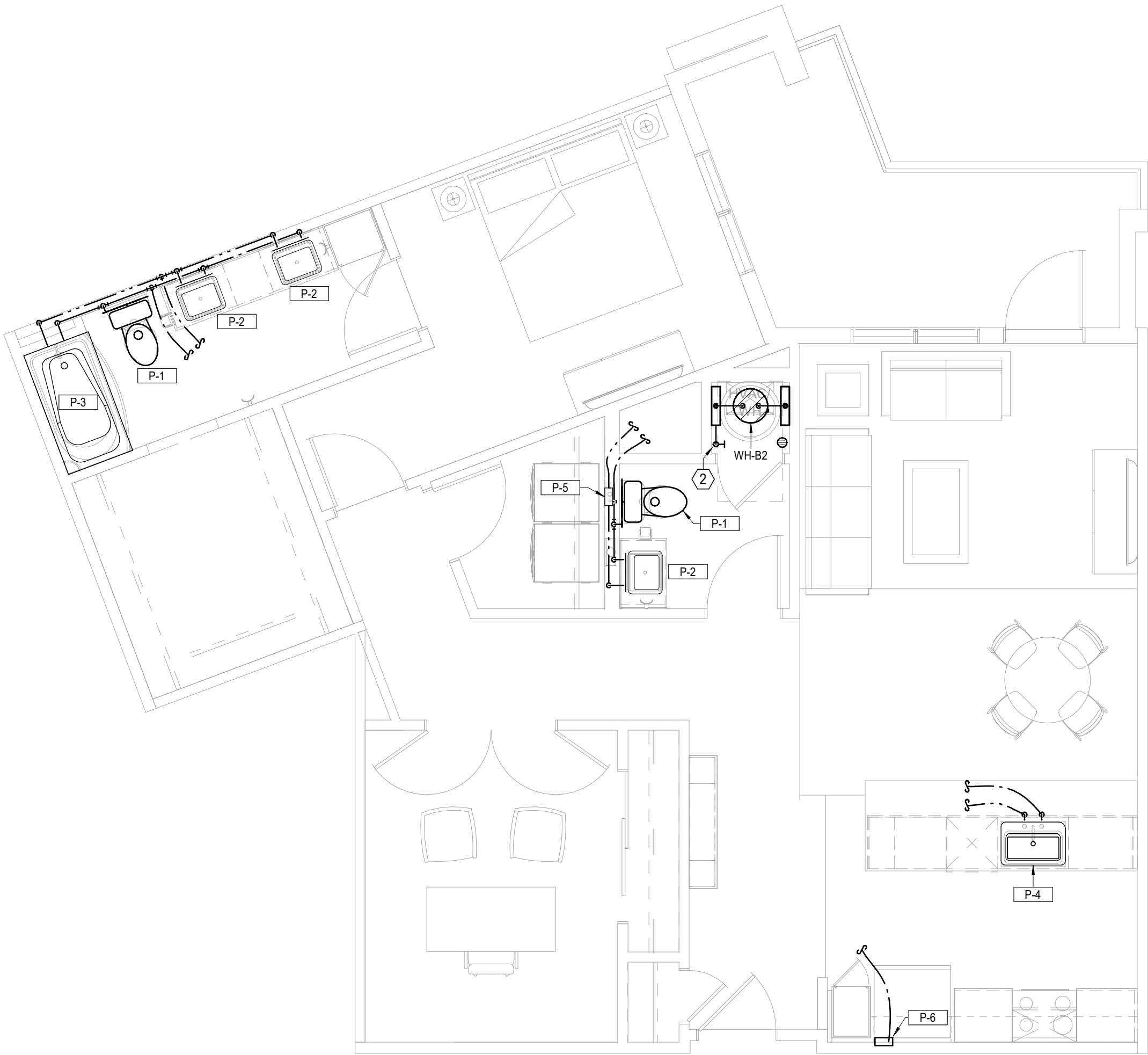


8 **UNIT B1**
PLUMBING
1/4" = 1'-0"

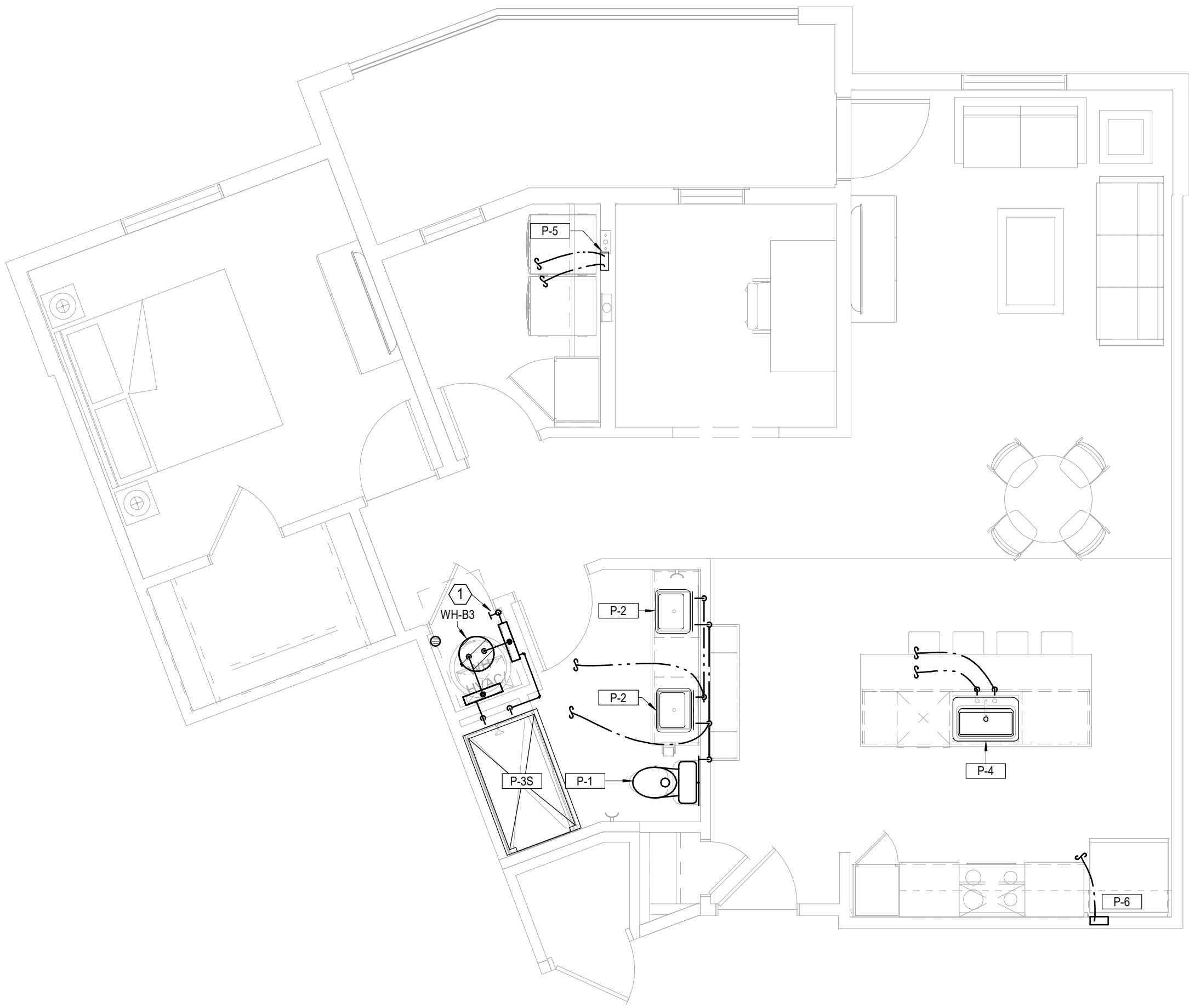
- UNIT PLUMBING NOTES:**
- ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC.
 - PROVIDE AIR CHAMBERS ON P-4, P-5, AND P-6.
 - CONNECT DISHWASHERS, DISPOSERS, ICE MAKERS, WASHERS.
 - PROVIDE 2" HUB DRAIN AT EACH AHU/WH LOCATION.
 - ROUTE 1/2" PEX TO EACH FIXTURE FROM MANIFOLD OR COMBINE FIXTURES WITH 3/4" TO TWO FIXTURES OR MORE.
 - P-5, P-6 ON CORRIDOR WALLS SHALL HAVE FIRE PUTTY PADS OR EQUIVALENT FIRE PROTECTION.
- LEGEND:**
- ① 3/4" WATER SERVICE/SHUT-OFF WITH 3/4" MANIFOLD.
 - ② 1" WATER SERVICE/SHUT-OFF WITH MANIFOLD.



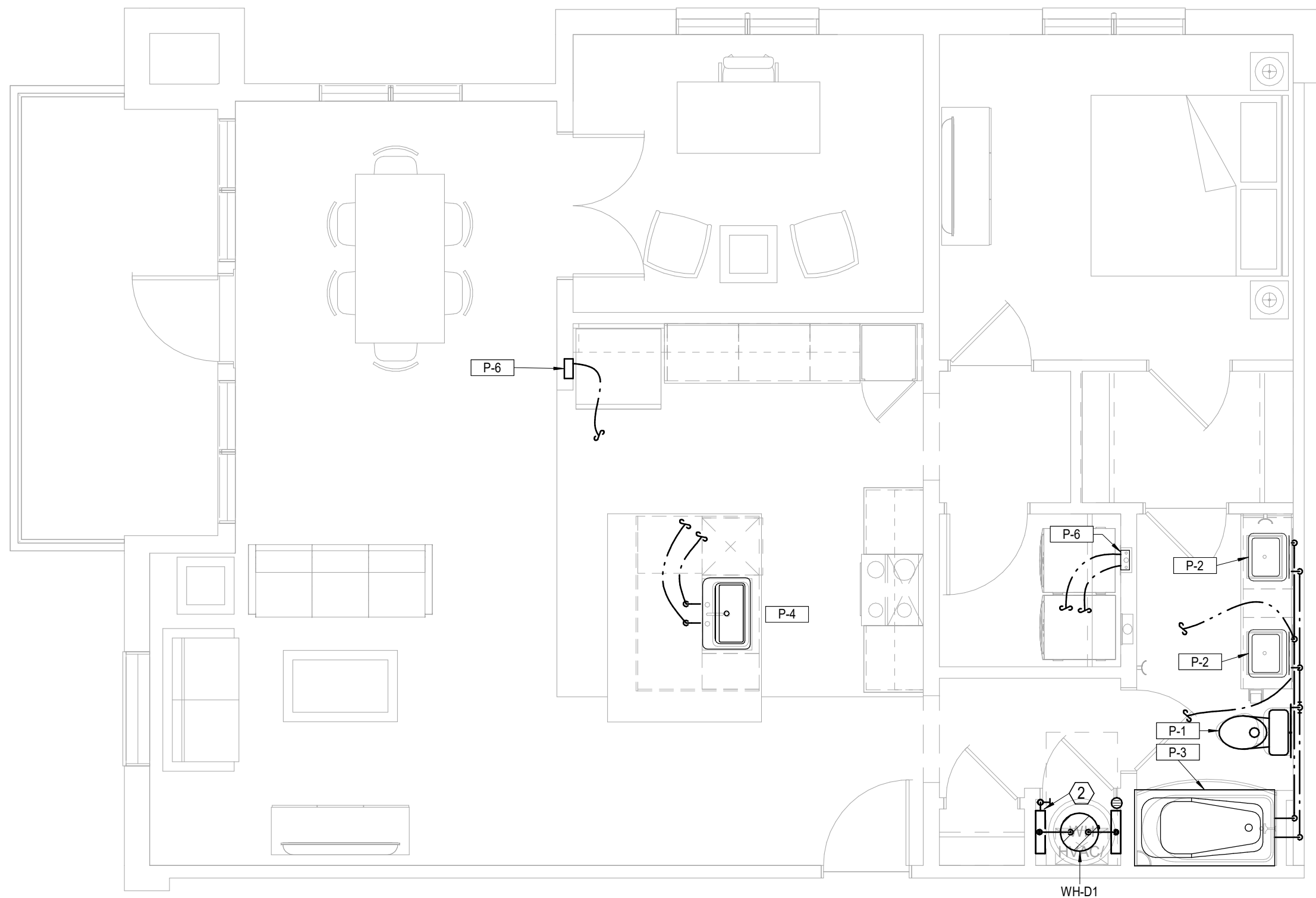
1 **UNIT B1 ALT**
PLUMBING
1/4" = 1'-0"



2 **UNIT B2**
PLUMBING
1/4" = 1'-0"

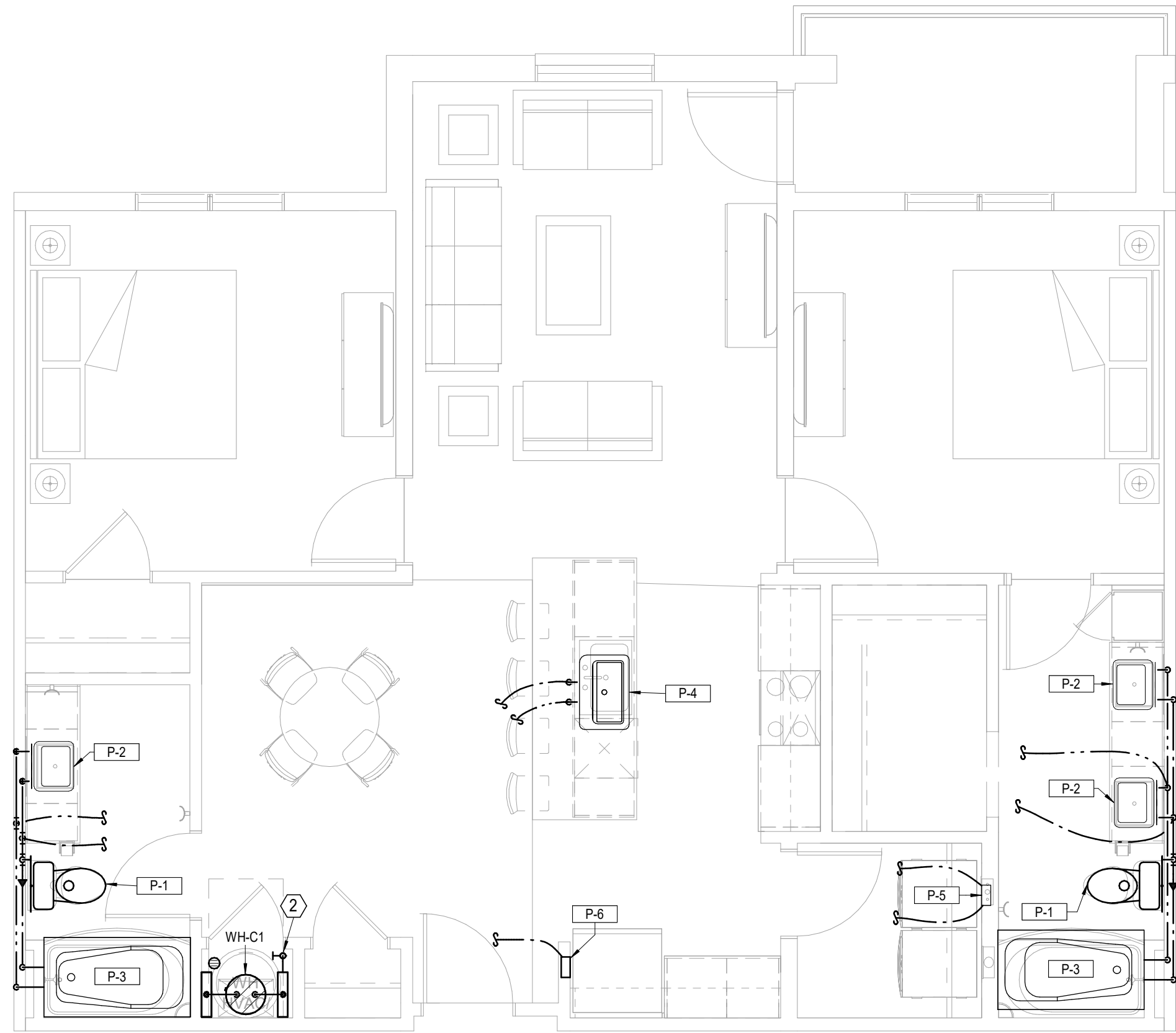


3 **UNIT B3**
PLUMBING
1/4" = 1'-0"

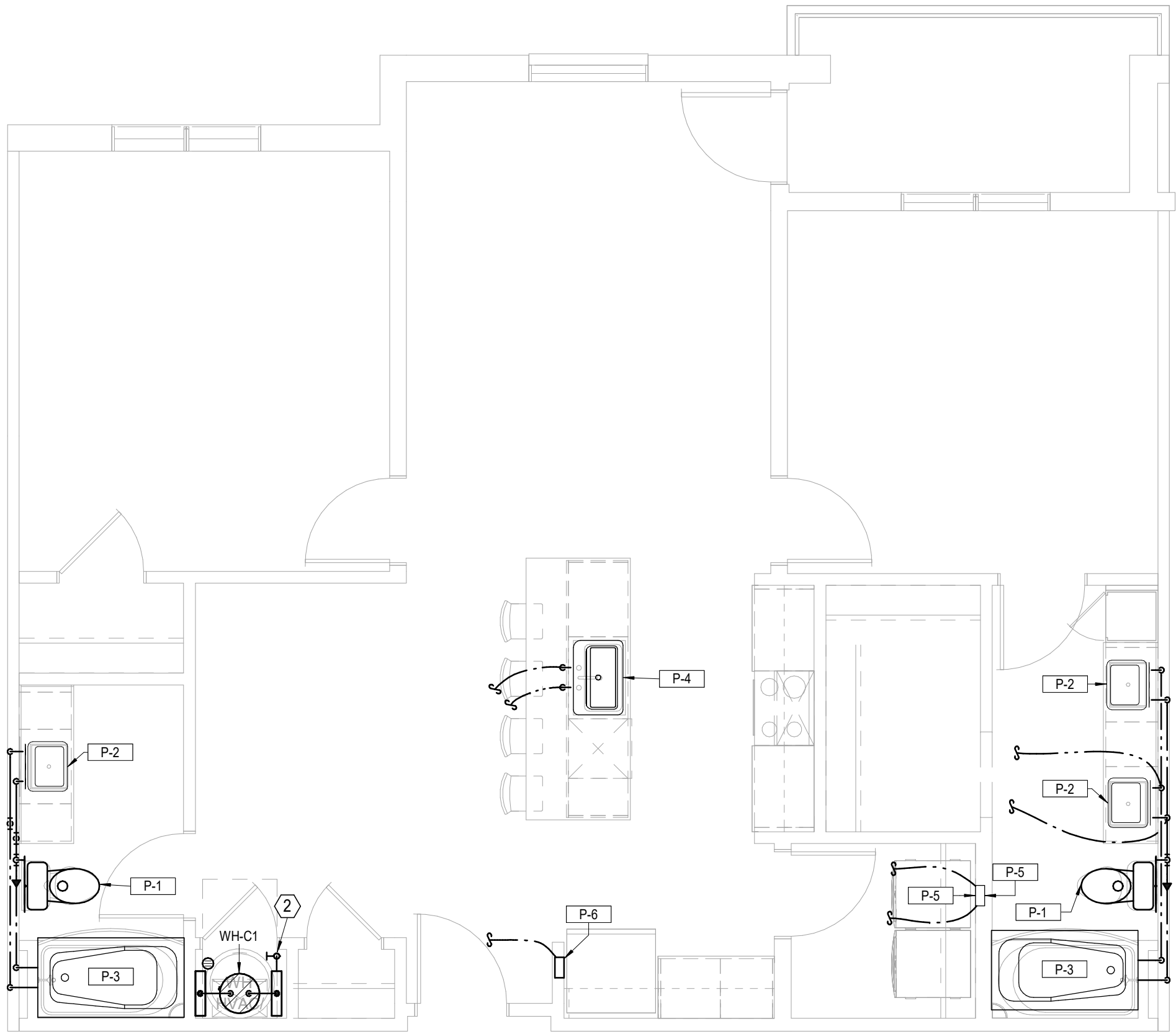


4 **UNIT B4**
PLUMBING
1/4" = 1'-0"

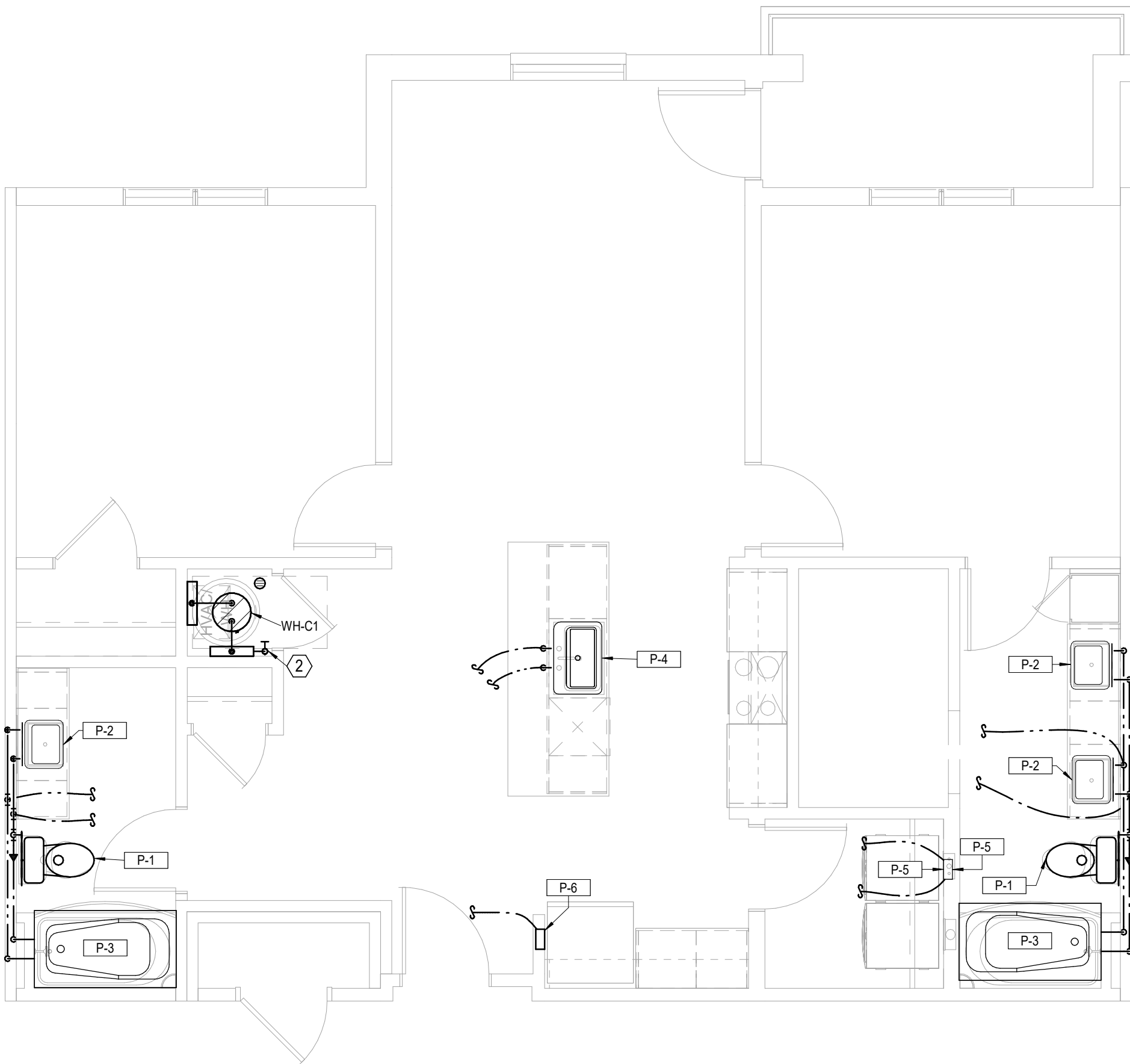
- UNIT PLUMBING NOTES:**
1. ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC.
 2. PROVIDE AIR CHAMBERS ON P-4, P-5, AND P-6.
 3. CONNECT DISHWASHERS, DISPOSERS, ICE MAKERS, WASHERS.
 4. PROVIDE 2" HUB DRAIN AT EACH AHU/WH LOCATION.
 5. ROUTE 1/2" PEX TO EACH FIXTURE FROM MANIFOLD OR COMBINE FIXTURES WITH 3/4" TO TWO FIXTURES OR MORE.
 6. P-5, P-6 ON CORRIDOR WALLS SHALL HAVE FIRE PUTTY PADS OR EQUIVALENT FIRE PROTECTION.
- LEGEND:**
- ① 3/4" WATER SERVICE/SHUT-OFF WITH 3/4" MANIFOLD.
 - ② 1" WATER SERVICE/SHUT-OFF WITH MANIFOLD.



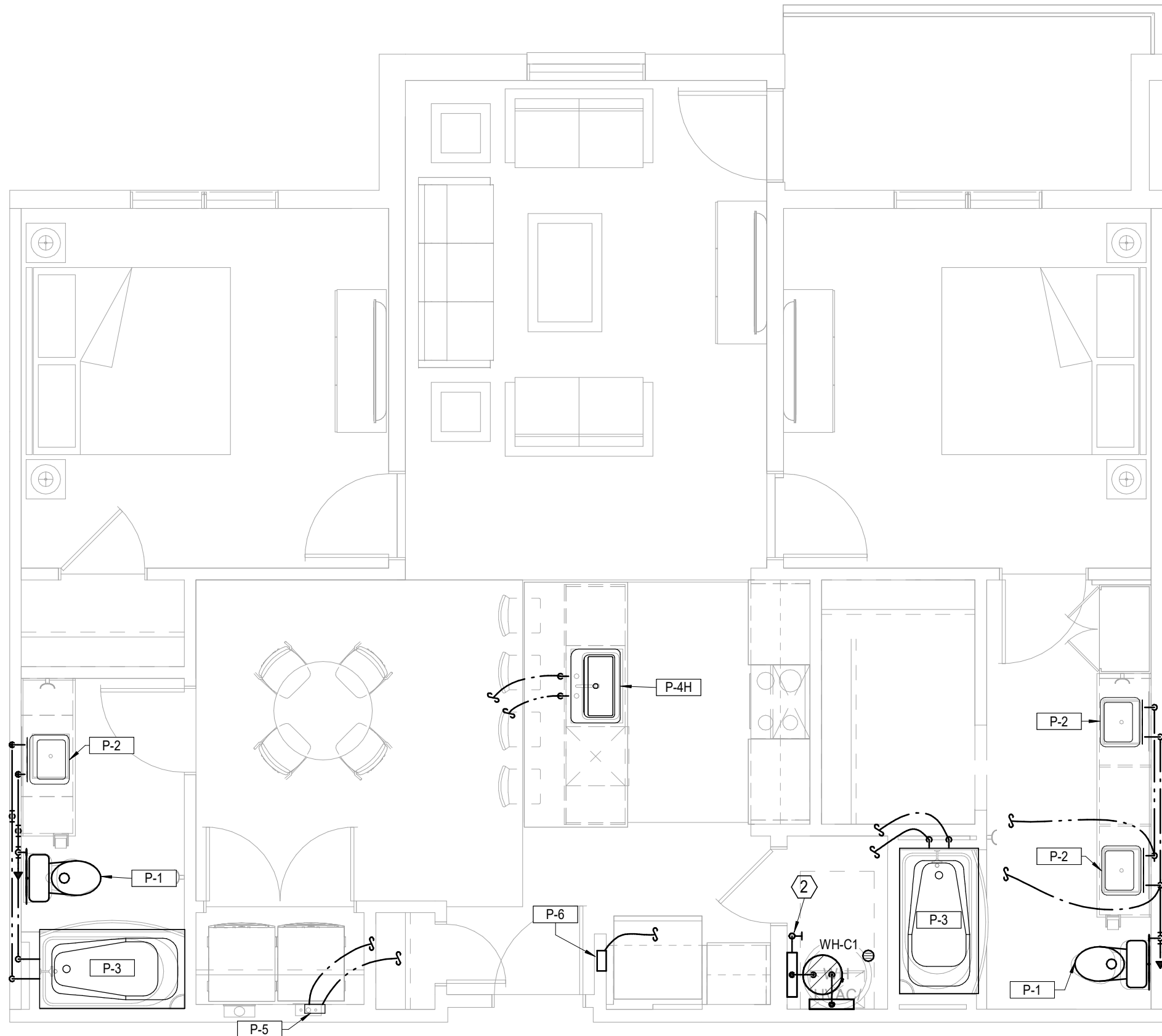
1 **UNIT C1**
PLUMBING
1/4" = 1'-0"



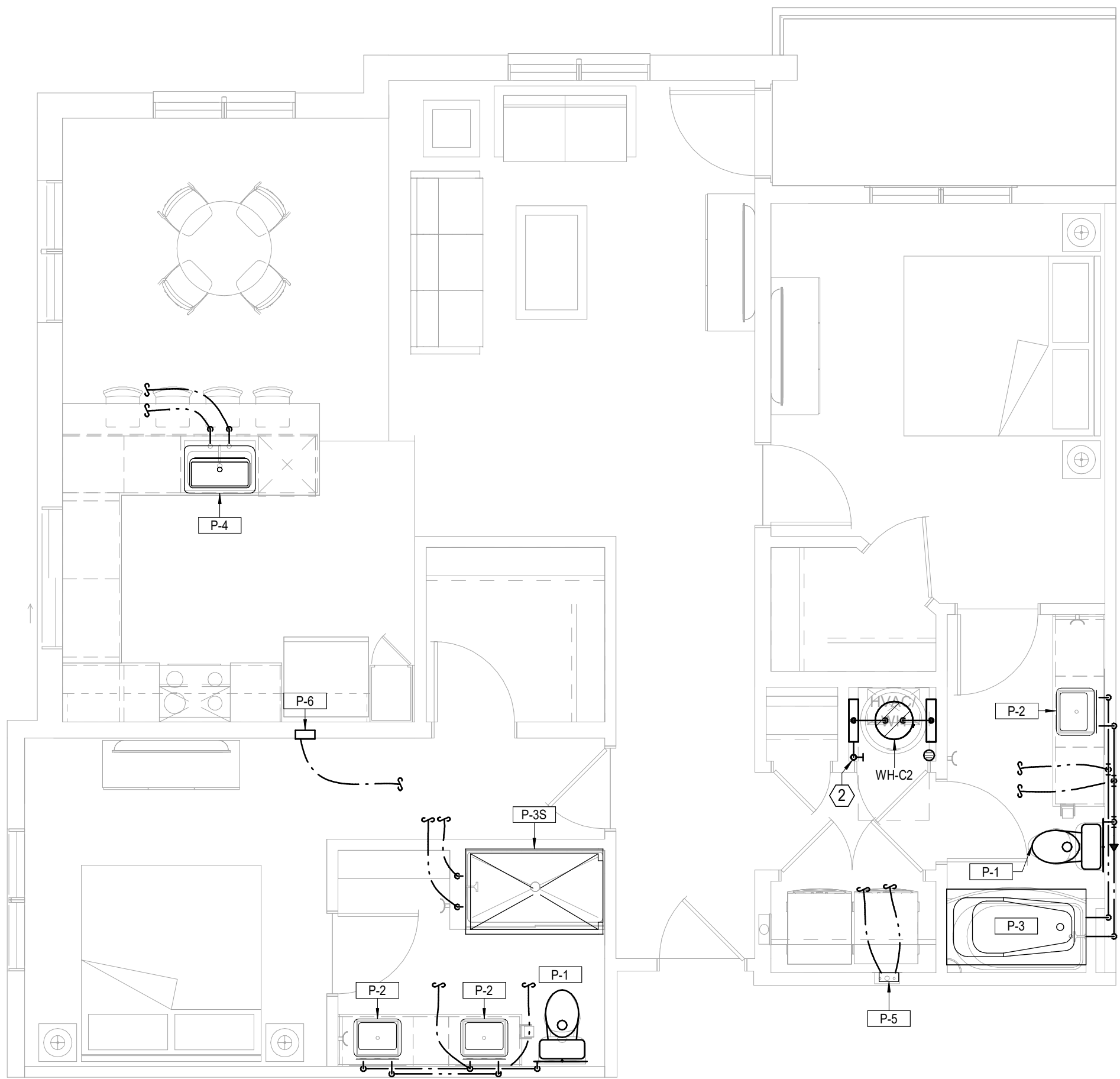
2 **UNIT C1 ALT**
PLUMBING
1/4" = 1'-0"



3 **UNIT C1 ALT 2**
PLUMBING
1/4" = 1'-0"



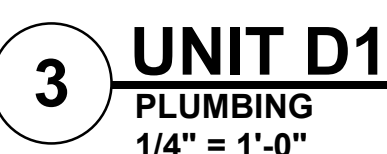
4 **UNIT C1 TYPE A**
PLUMBING
1/4" = 1'-0"



5 **UNIT C2**
PLUMBING
1/4" = 1'-0"

UNIT PLUMBING NOTES:	
1.	ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC.
2.	PROVIDE AIR CHAMBERS ON P-4, P-5, AND P-6.
3.	CONNECT DISHWASHERS, DISPOSERS, ICE MAKERS, WASHERS.
4.	PROVIDE 2" HUB DRAIN AT EACH AHU/WH LOCATION.
5.	ROUTE 1/2" PEX TO EACH FIXTURE FROM MANIFOLD OR COMBINE FIXTURES WITH 3/4" TO TWO FIXTURES OR MORE.
6.	P-5, P-6 ON CORRIDOR WALLS SHALL HAVE FIRE PUTTY PADS OR EQUIVALENT FIRE PROTECTION.

LEGEND:	
①	3/4" WATER SERVICE/SHUT-OFF WITH 3/4" MANIFOLD.
②	1" WATER SERVICE/SHUT-OFF WITH MANIFOLD.



- LEGEND:**
- ① 3/4" WATER SERVICE/SHUT-OFF WITH 3/4" MANIFOLD
- ② 1" WATER SERVICE/SHUT-OFF WITH MANIFOLD.



03/15/2023

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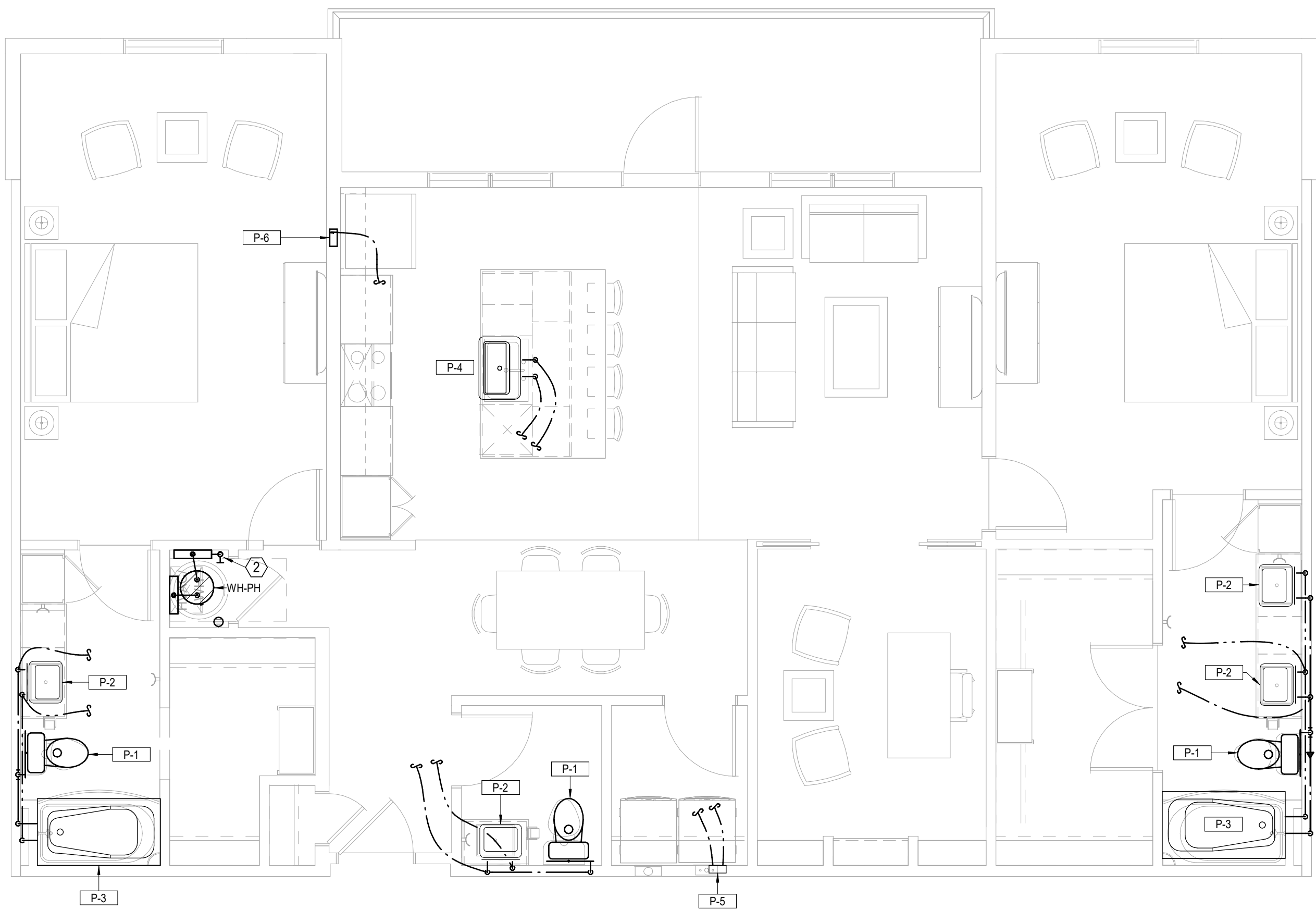
△ REVISIONS

JOB NO. **705921** DATE **03.15.2023**
DRAWN BY **LSA CAD**
4/11/2023
CITY COMMENTS
SHEET NAME
UNIT PLANS - PLUMBING

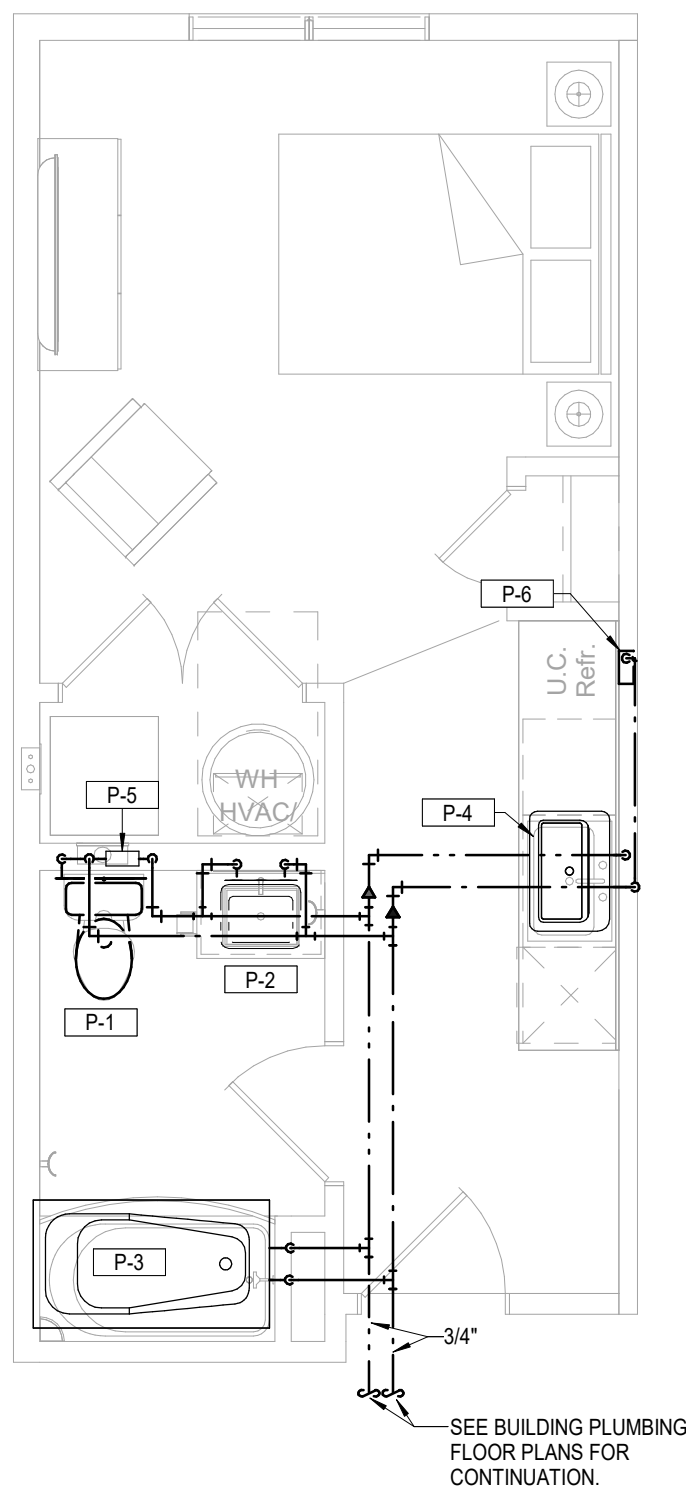
SHEET NO.

P2.04

LS&A
Latimer Sommers
& Associates P.A.
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Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061



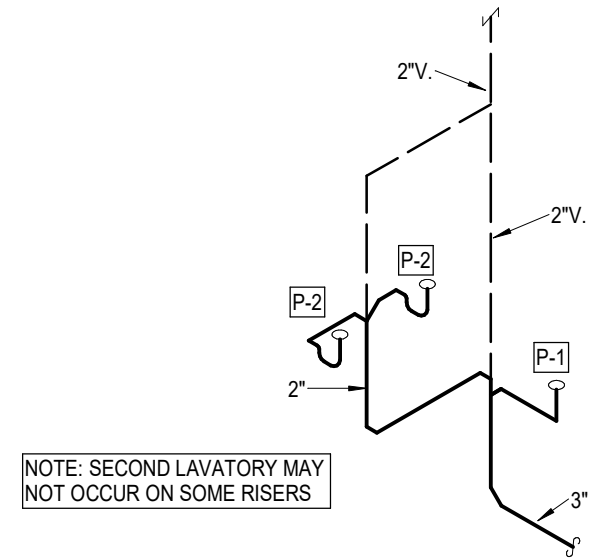
1 PENTHOUSE
PLUMBING
1/4" = 1'-0"



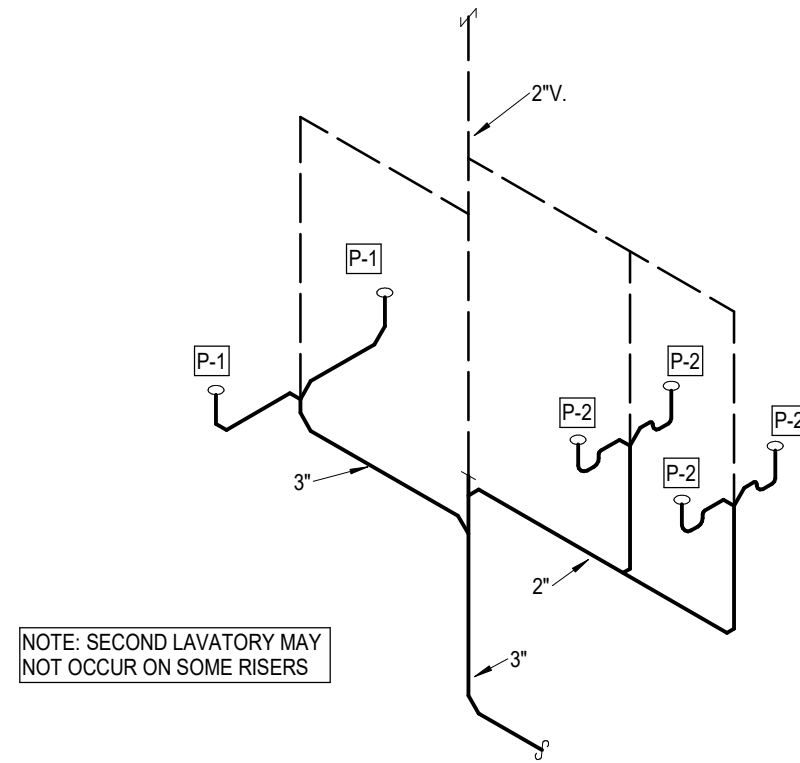
2 UNIT - GUEST SUITE
PLUMBING
1/4" = 1'-0"

UNIT PLUMBING NOTES:	
1.	ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC.
2.	PROVIDE AIR CHAMBERS ON P-4, P-5, AND P-6.
3.	CONNECT DISHWASHERS, DISPOSERS, ICE MAKERS, WASHERS.
4.	PROVIDE 2" HUB DRAIN AT EACH AHU/WH LOCATION.
5.	ROUTE 1/2" PEX TO EACH FIXTURE FROM MANIFOLD OR COMBINE FIXTURES WITH 3/4" TO TWO FIXTURES OR MORE.
6.	P-5, P-6 ON CORRIDOR WALLS SHALL HAVE FIRE PUTTY PADS OR EQUIVALENT FIRE PROTECTION.

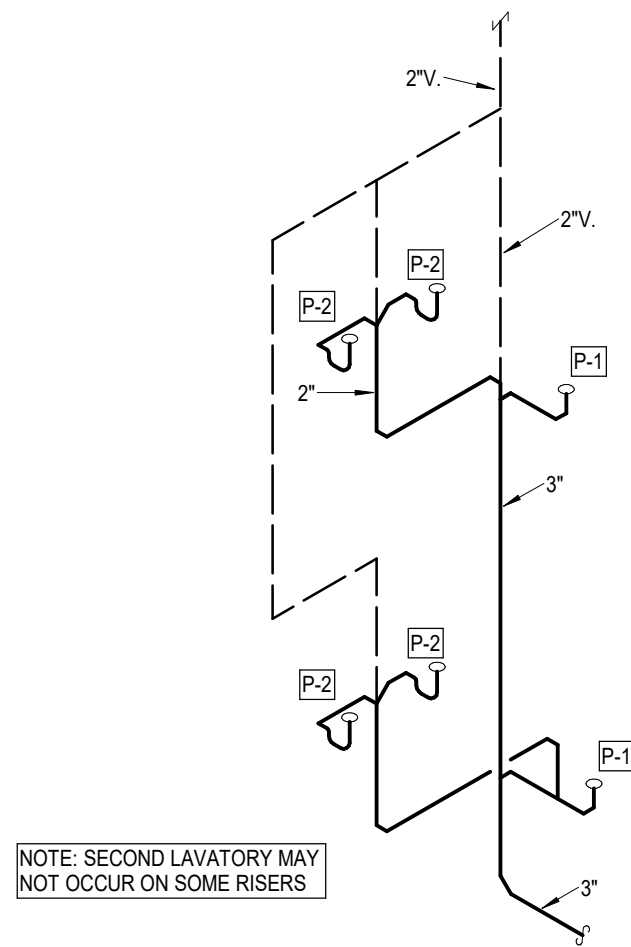
LEGEND:	
①	3/4" WATER SERVICE/SHUT-OFF WITH 3/4" MANIFOLD.
②	1" WATER SERVICE/SHUT-OFF WITH MANIFOLD.



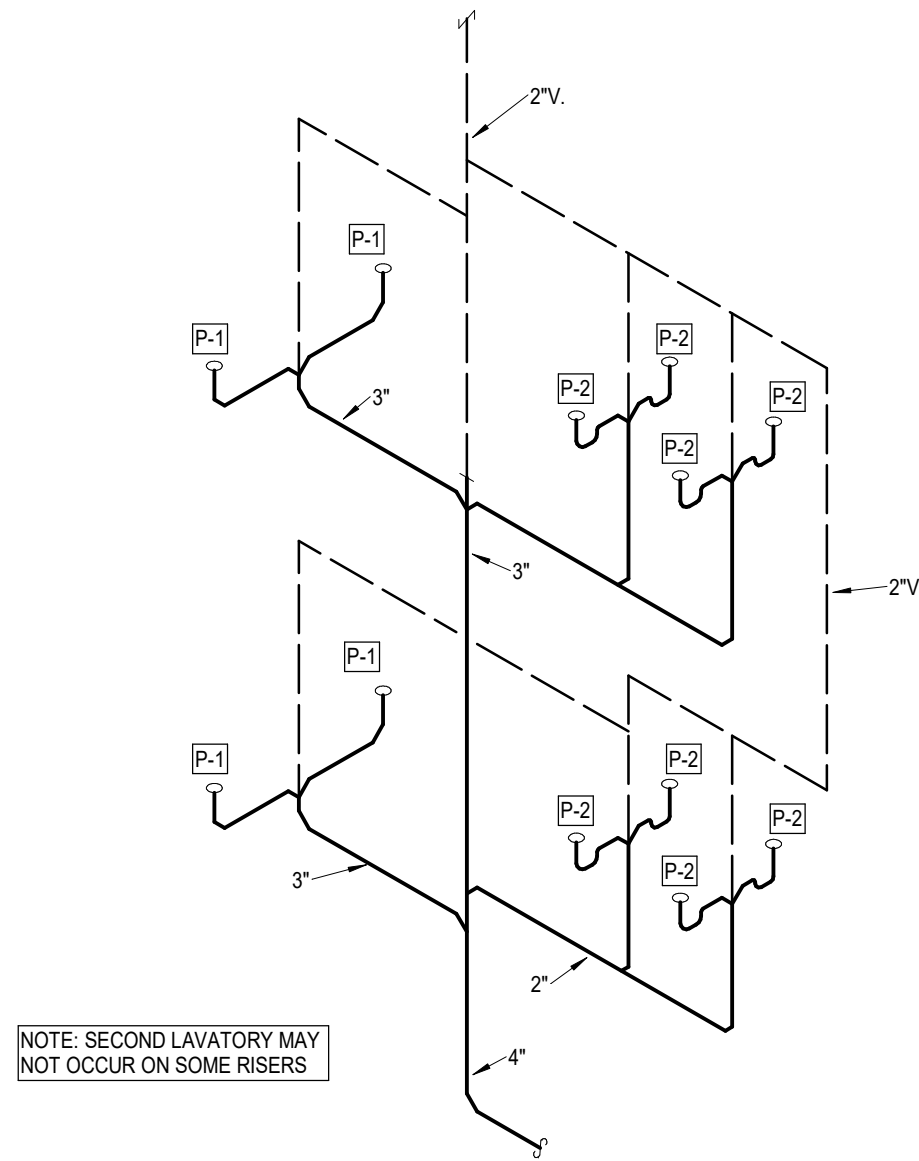
A1 Plumbing Riser
NOT TO SCALE



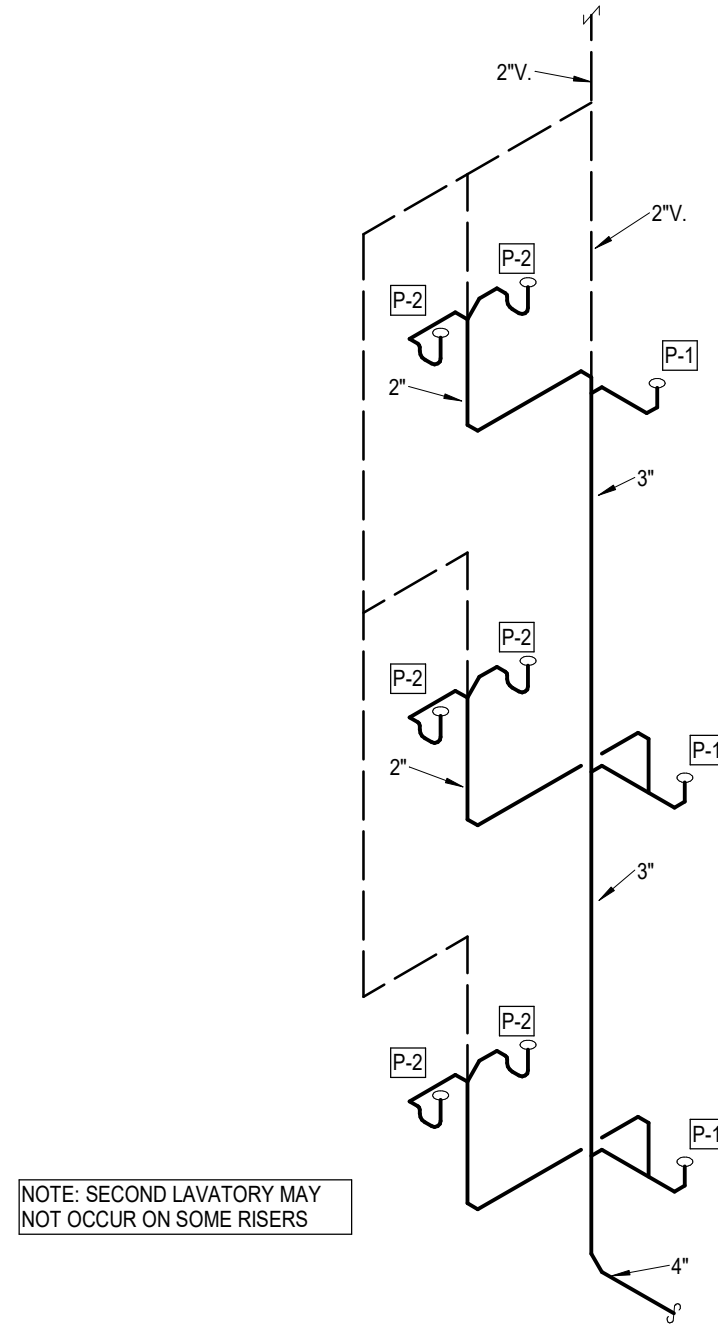
A1/2 Plumbing Riser
NOT TO SCALE



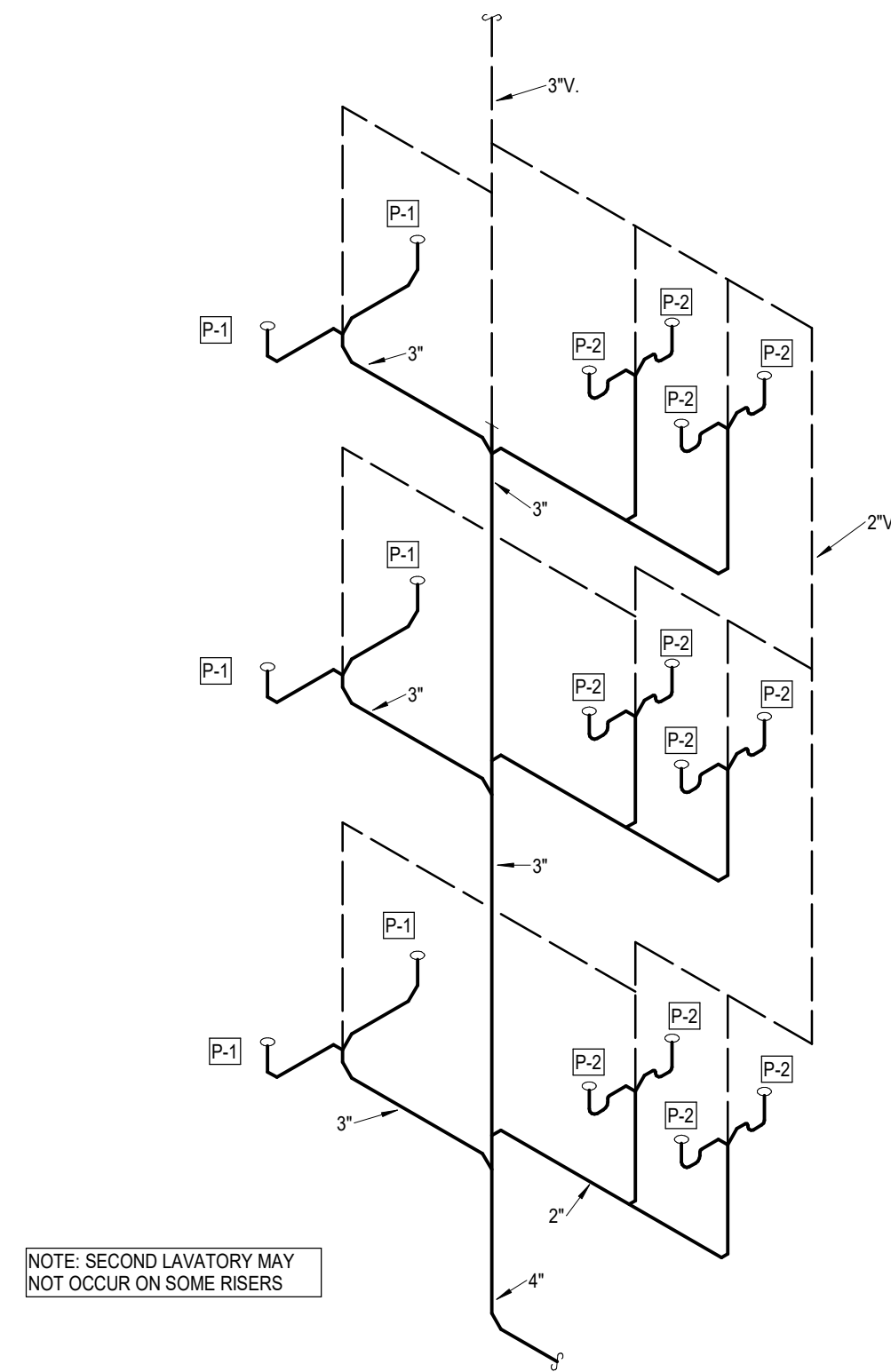
A2 Plumbing Riser
NOT TO SCALE



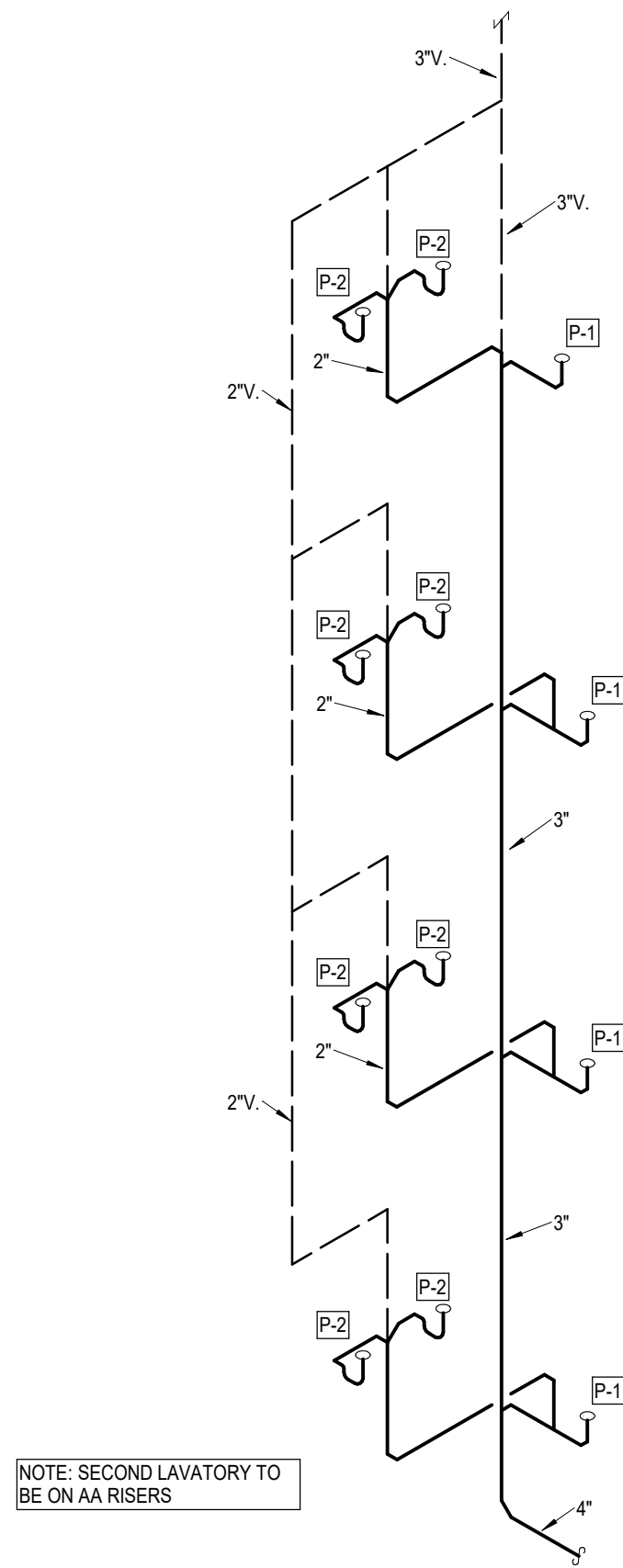
A2/2 Plumbing Riser
NOT TO SCALE



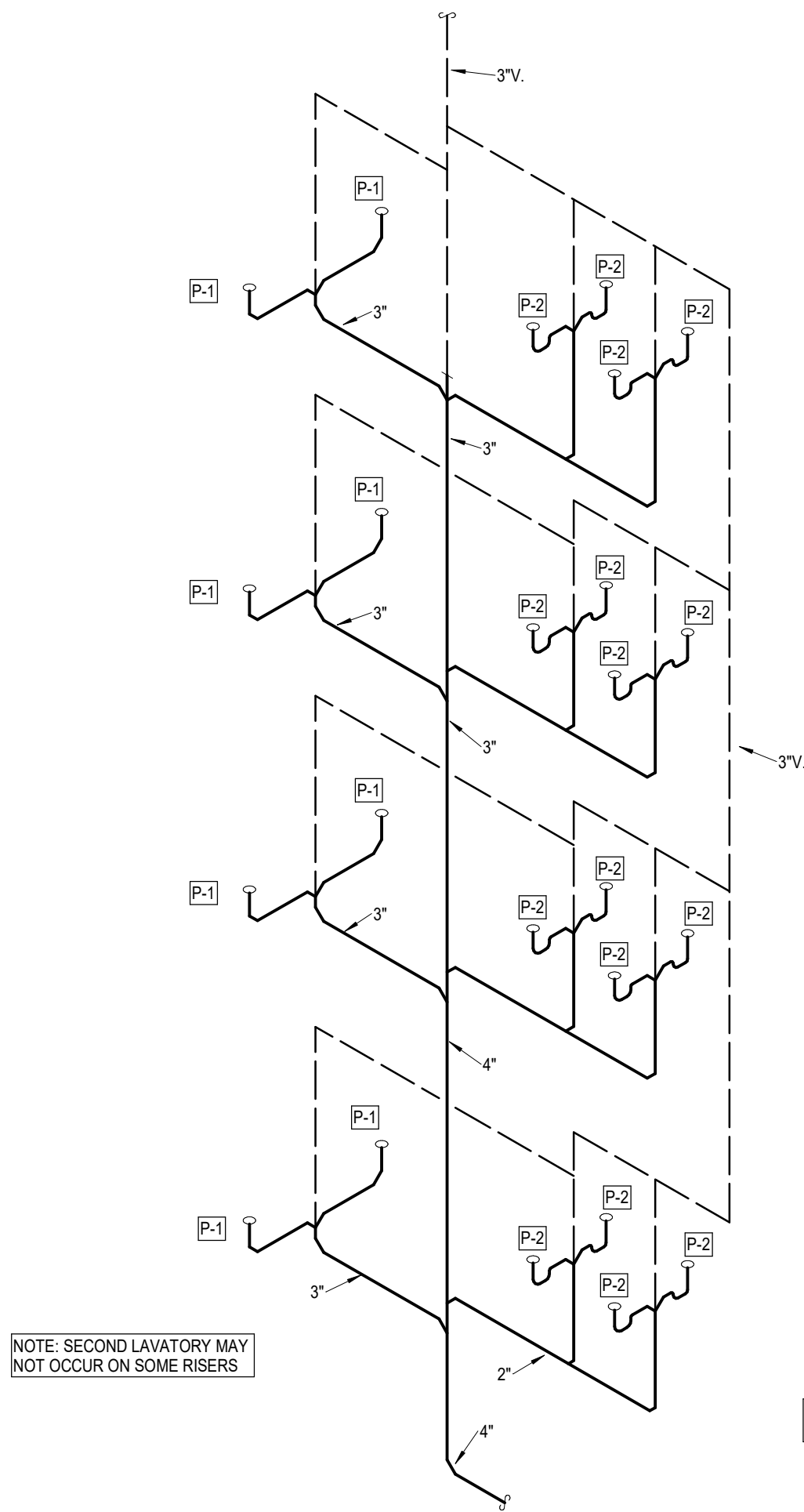
A3 Plumbing Riser
NOT TO SCALE



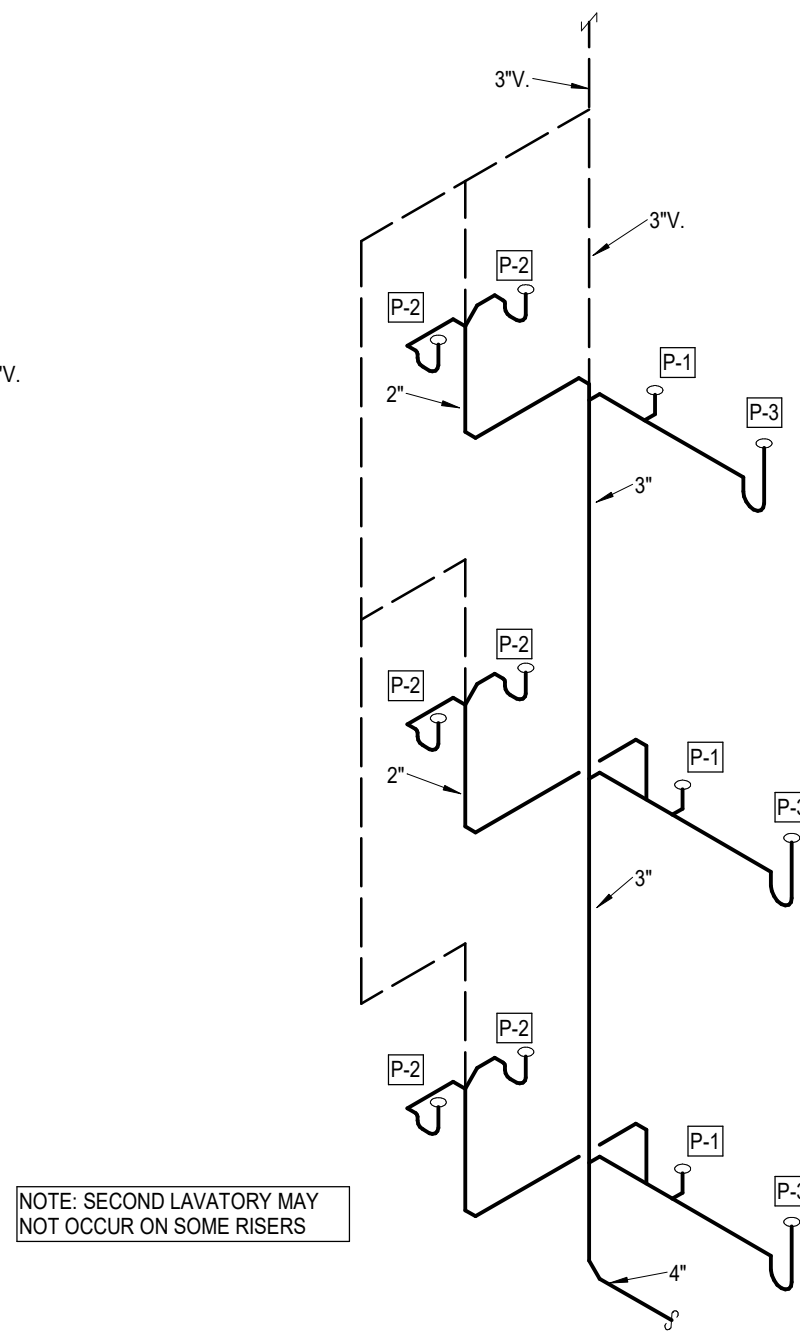
A3/2 Plumbing Riser
NOT TO SCALE



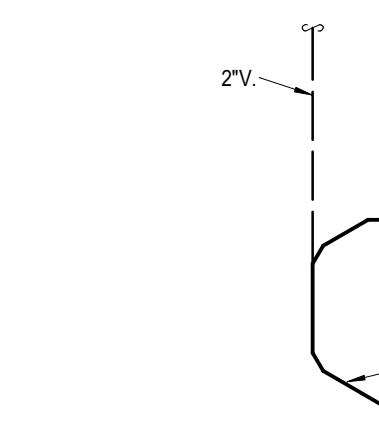
A4 Plumbing Riser
NOT TO SCALE



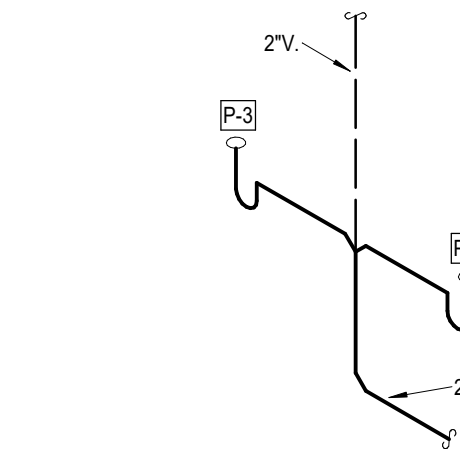
A4/2 Plumbing Riser
NOT TO SCALE



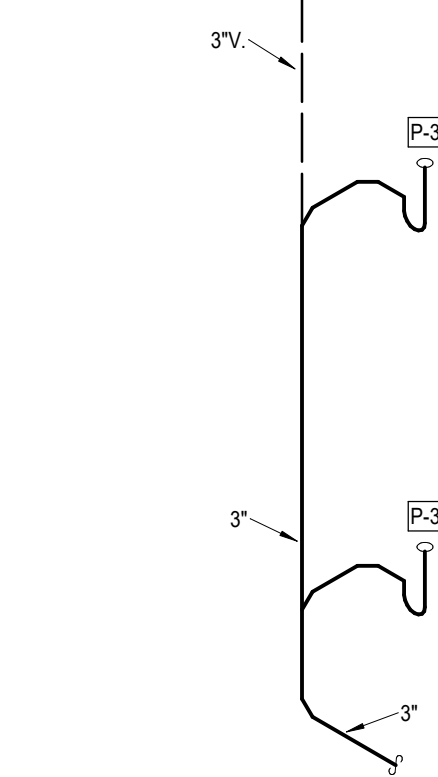
AB3 Plumbing Riser
NOT TO SCALE



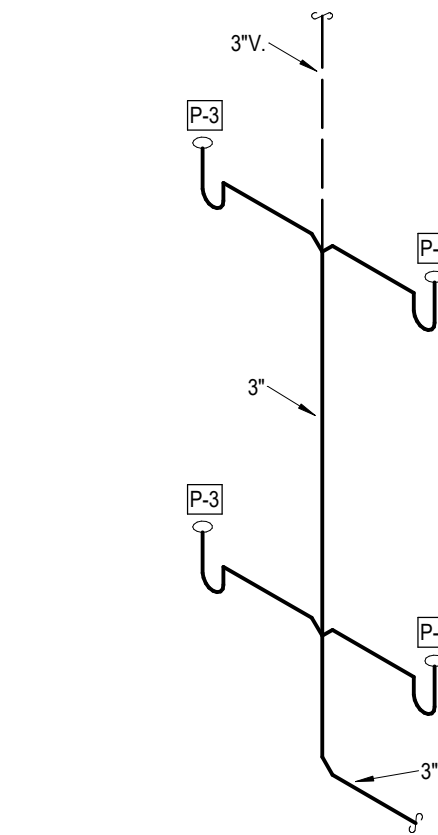
B1 Plumbing Riser
NOT TO SCALE



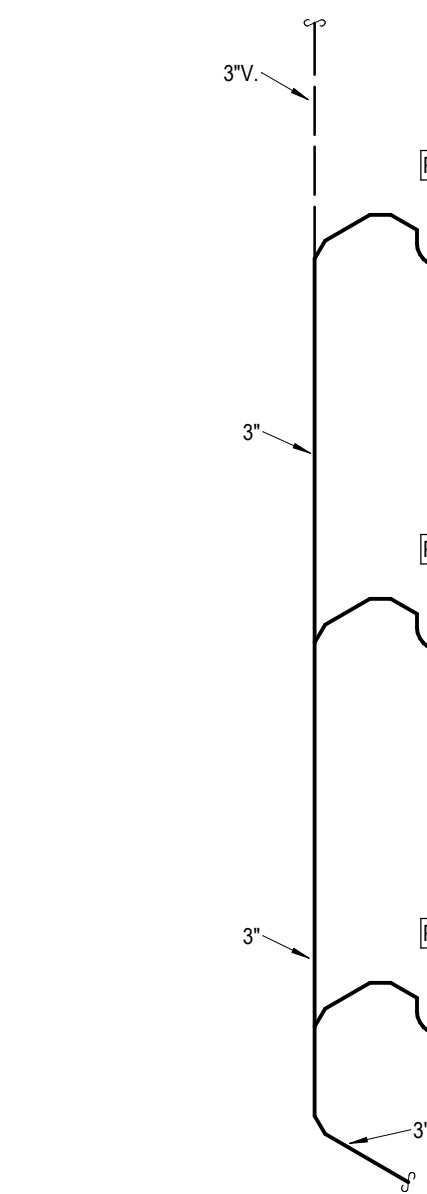
B1/2 Plumbing Riser
NOT TO SCALE



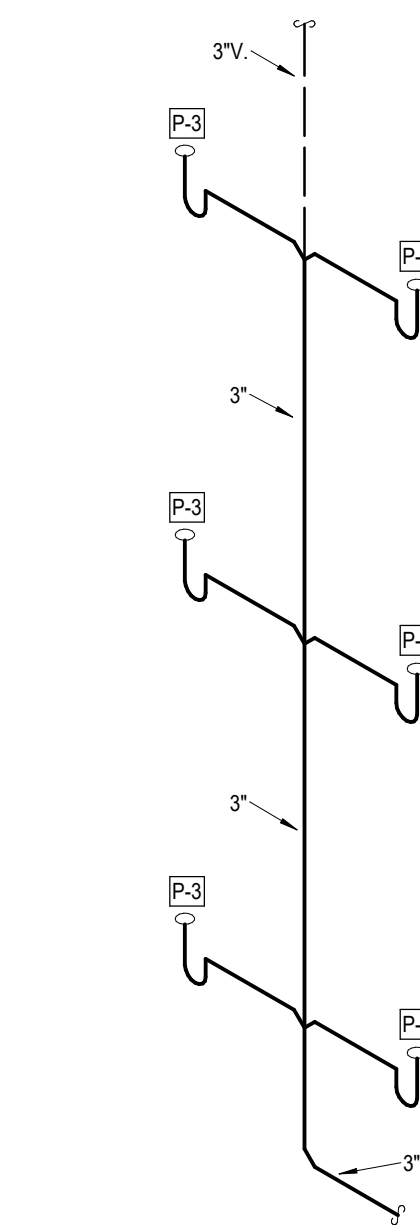
B2 Plumbing Riser
NOT TO SCALE



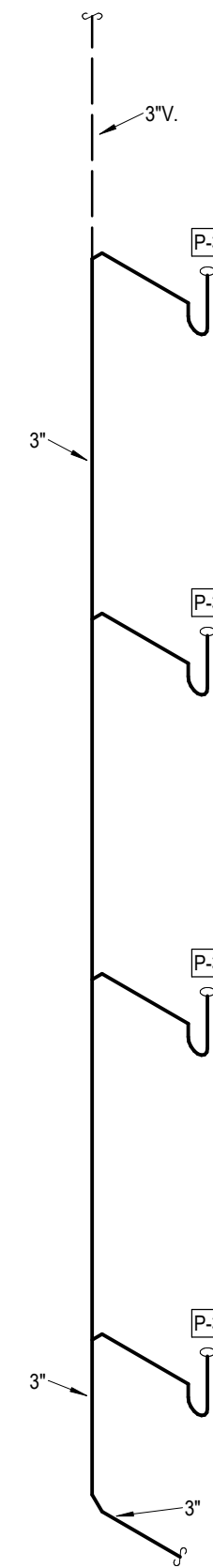
B2/2 Plumbing Riser
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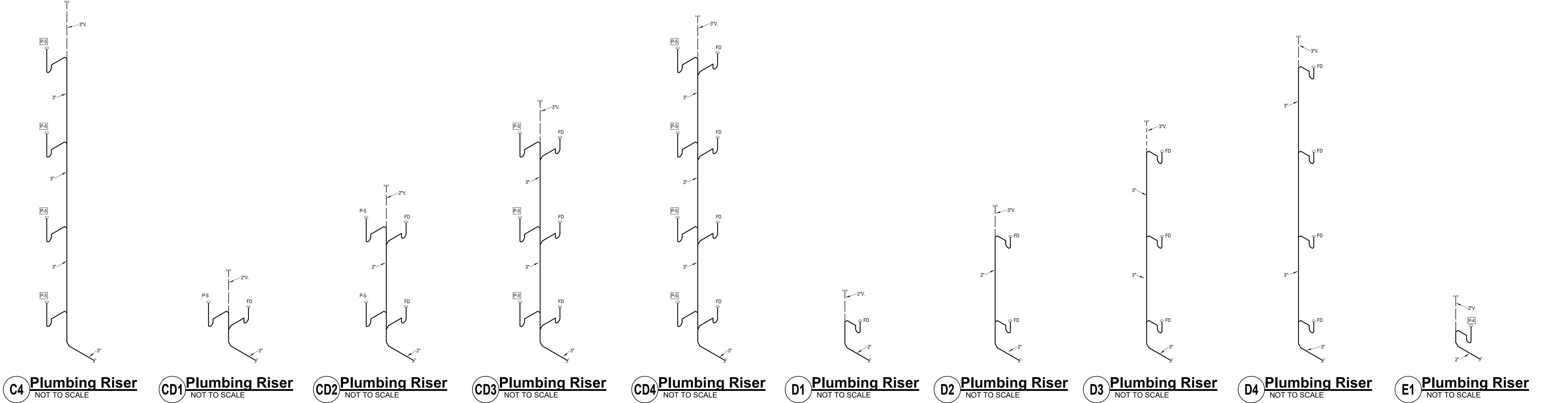
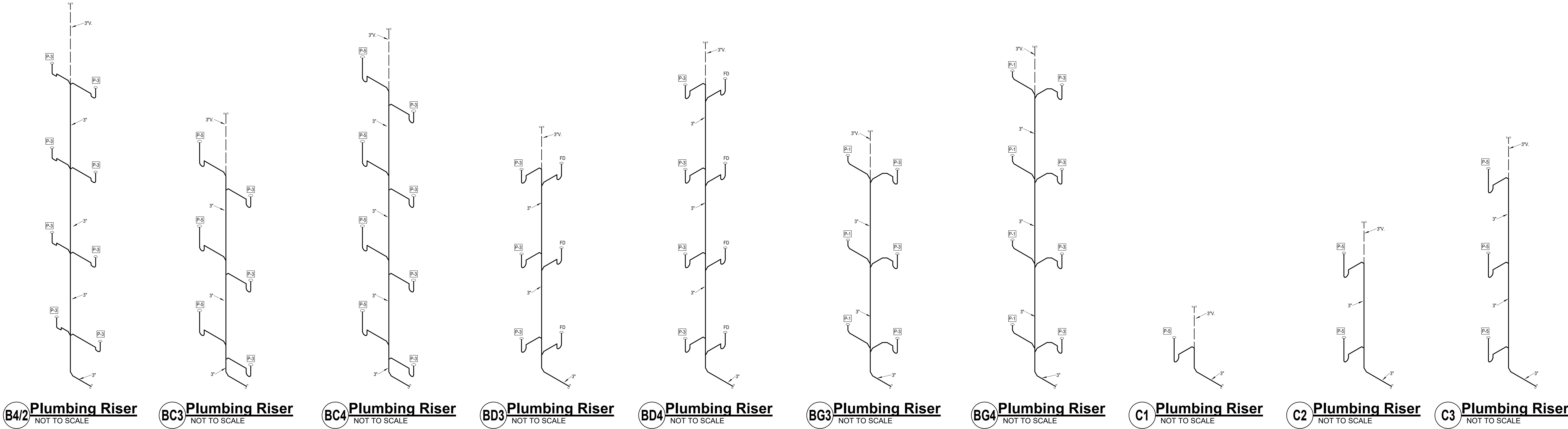
B3 Plumbing Riser
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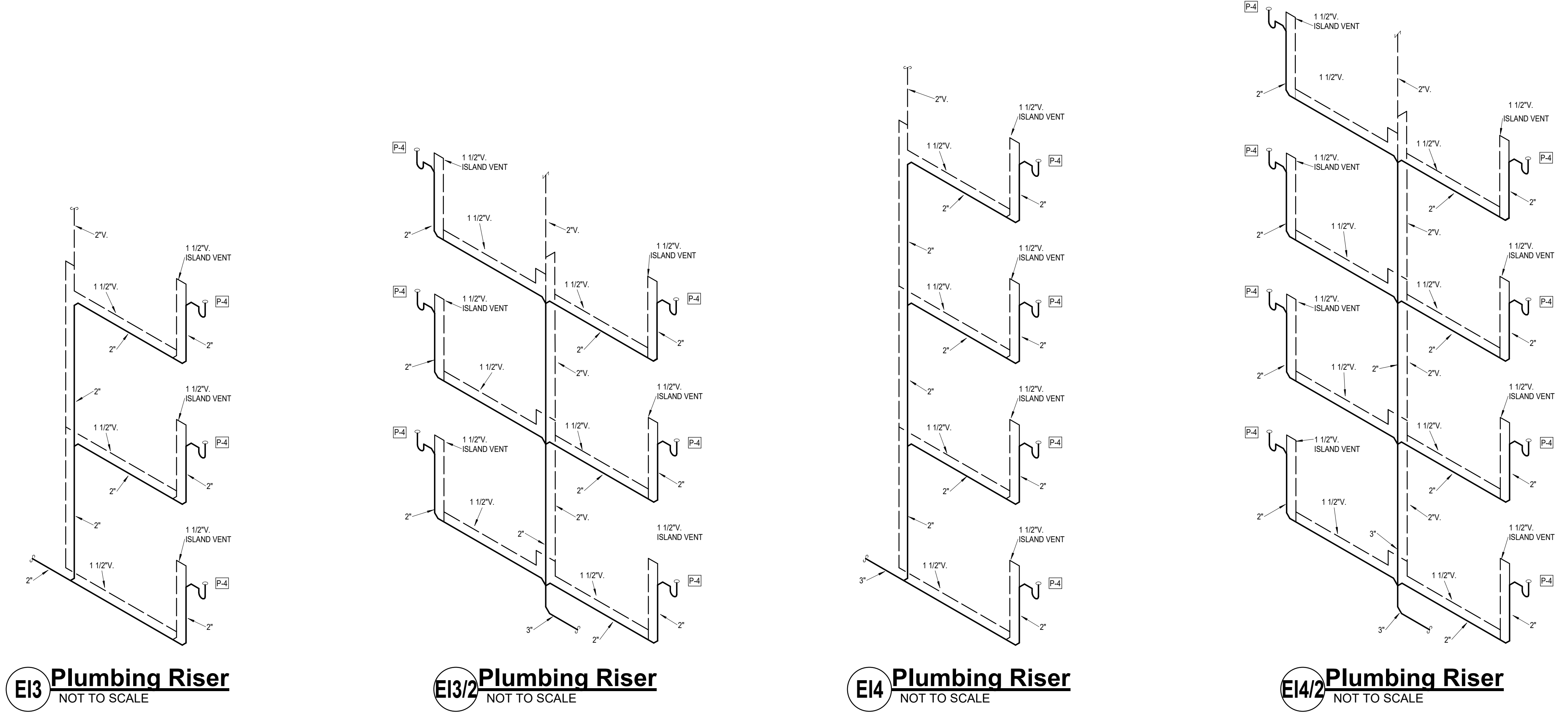
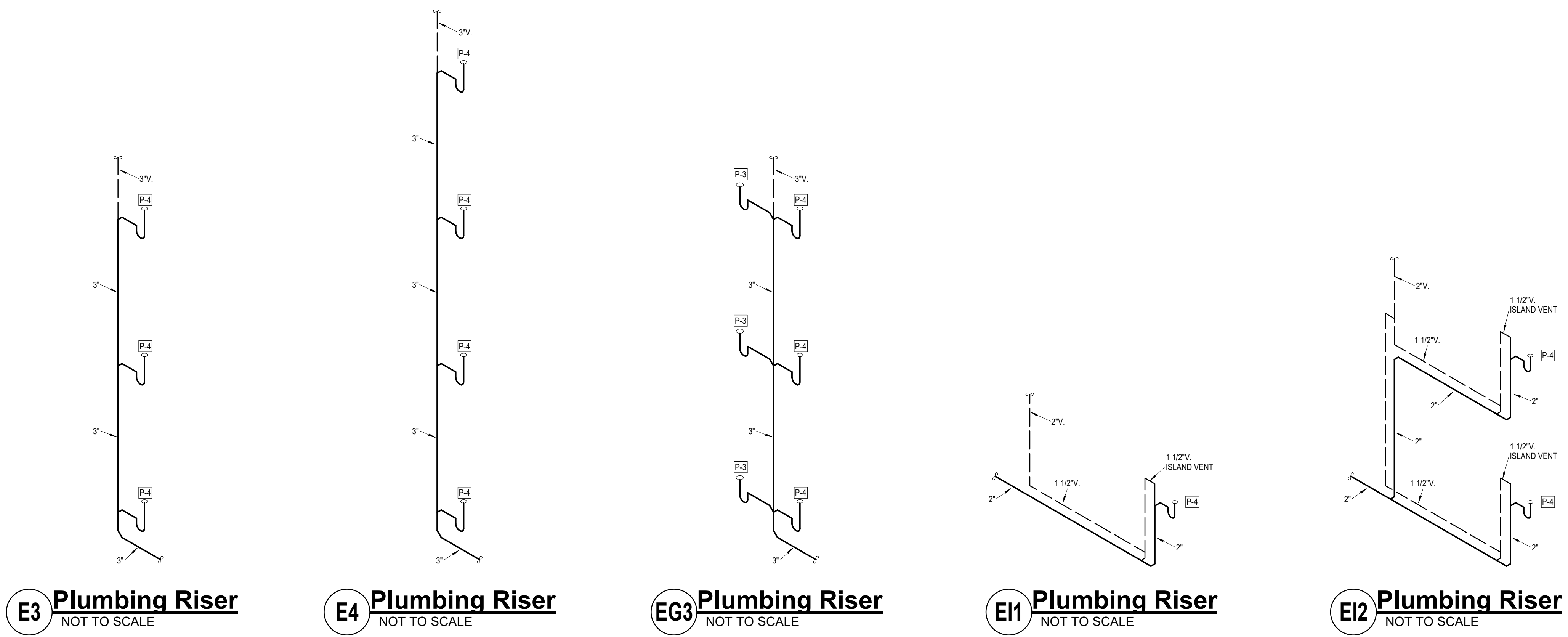


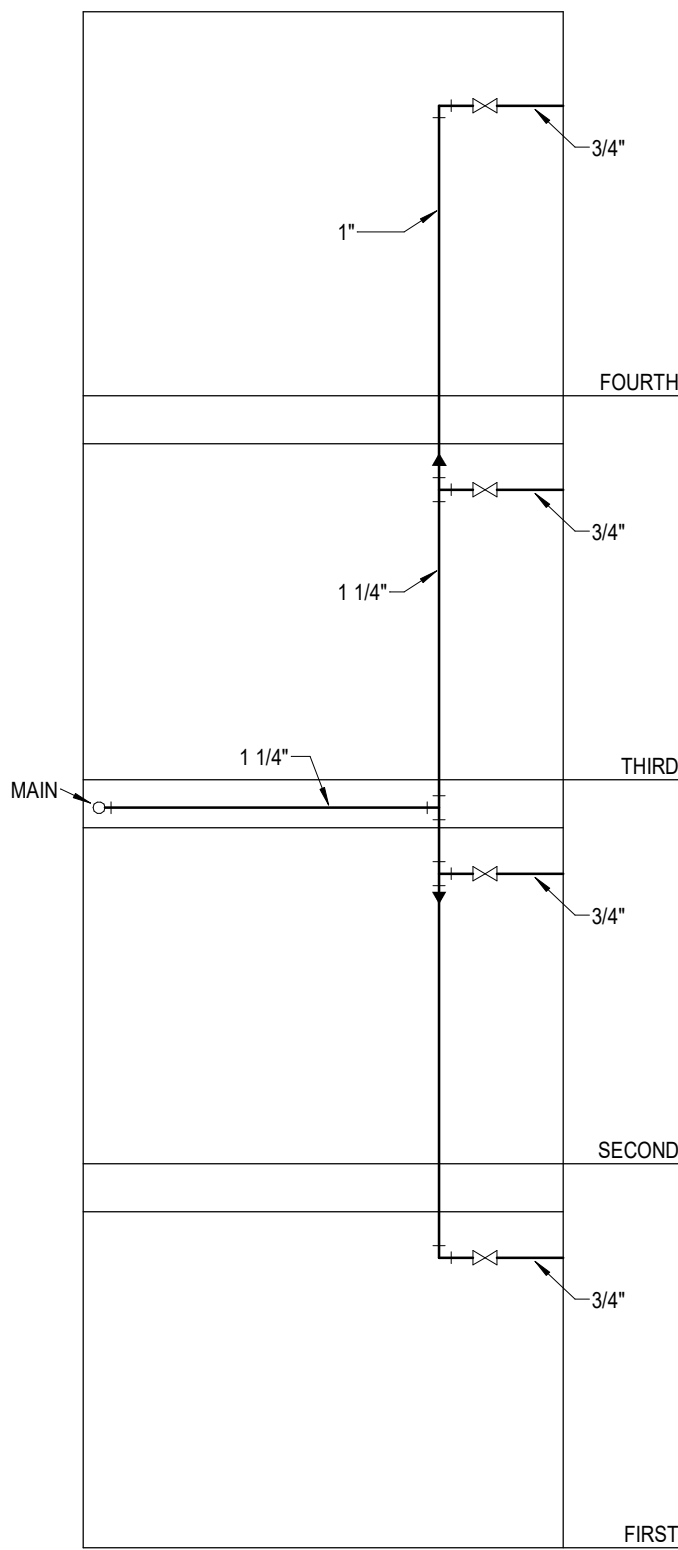
B3/2 Plumbing Riser
NOT TO SCALE



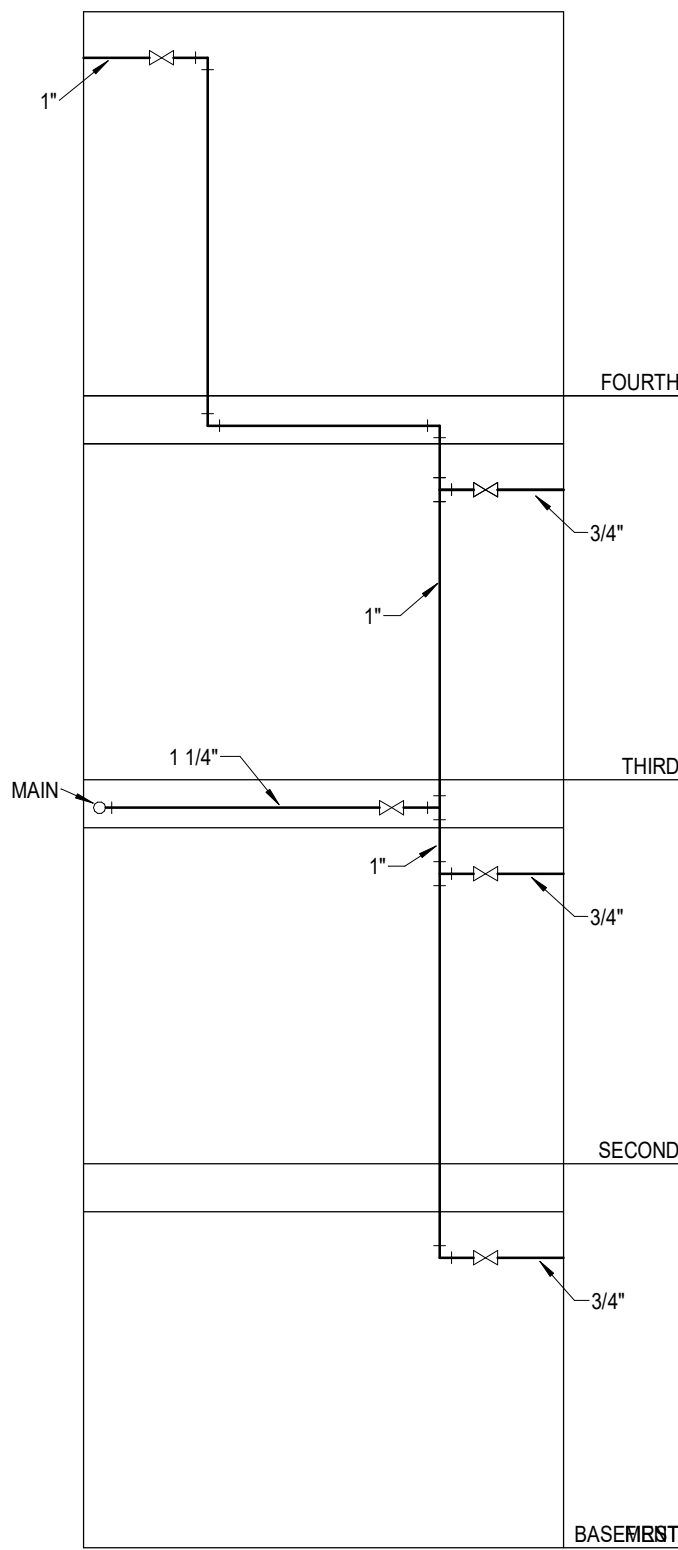
B4 Plumbing Riser
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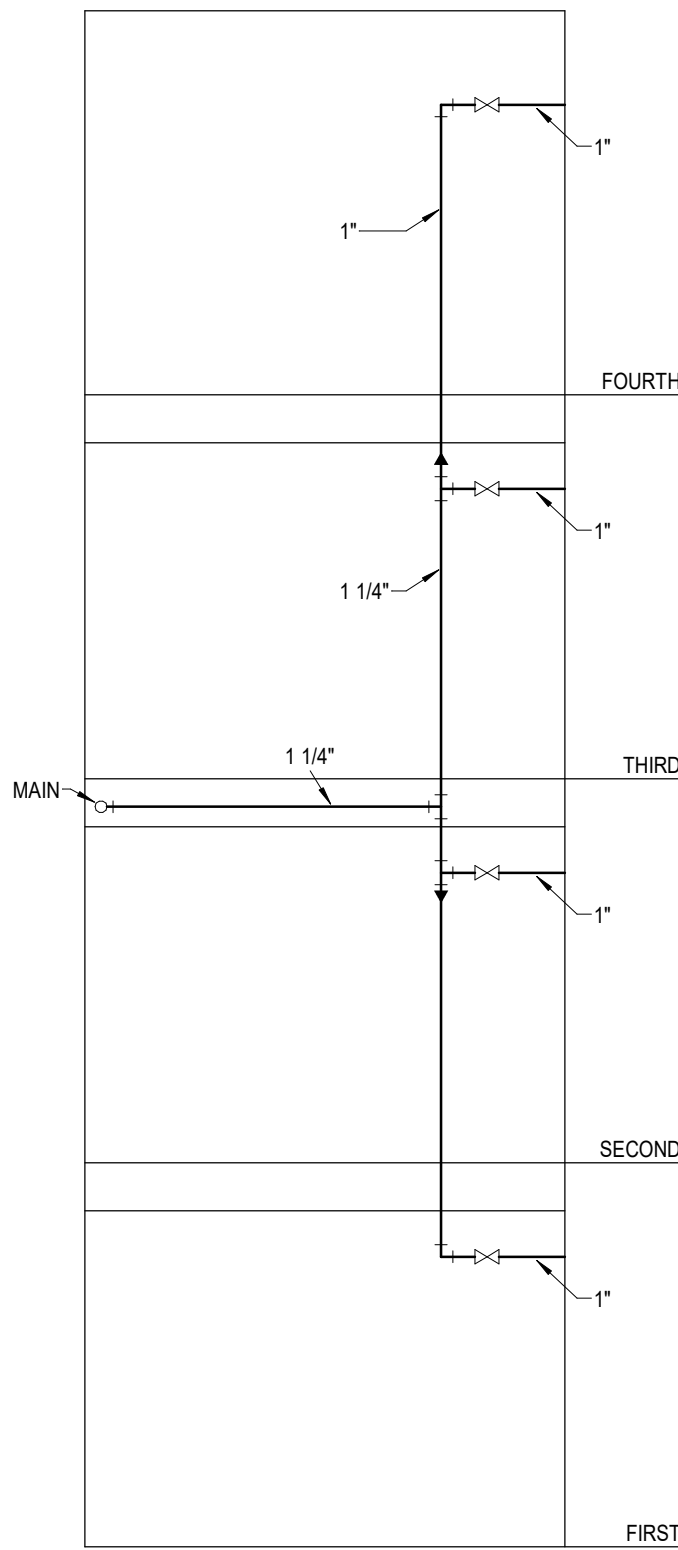




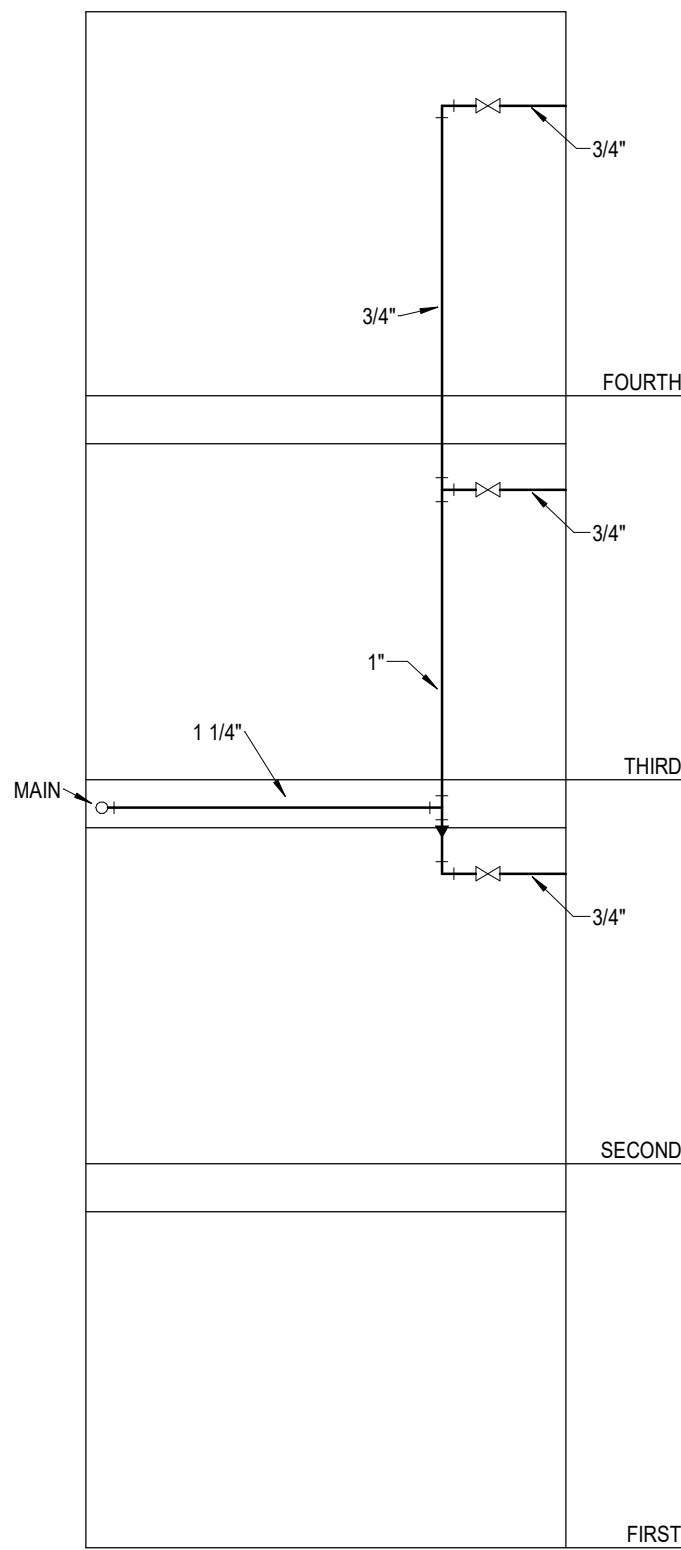
1a Plumbing Riser
NOT TO SCALE
1 BATH



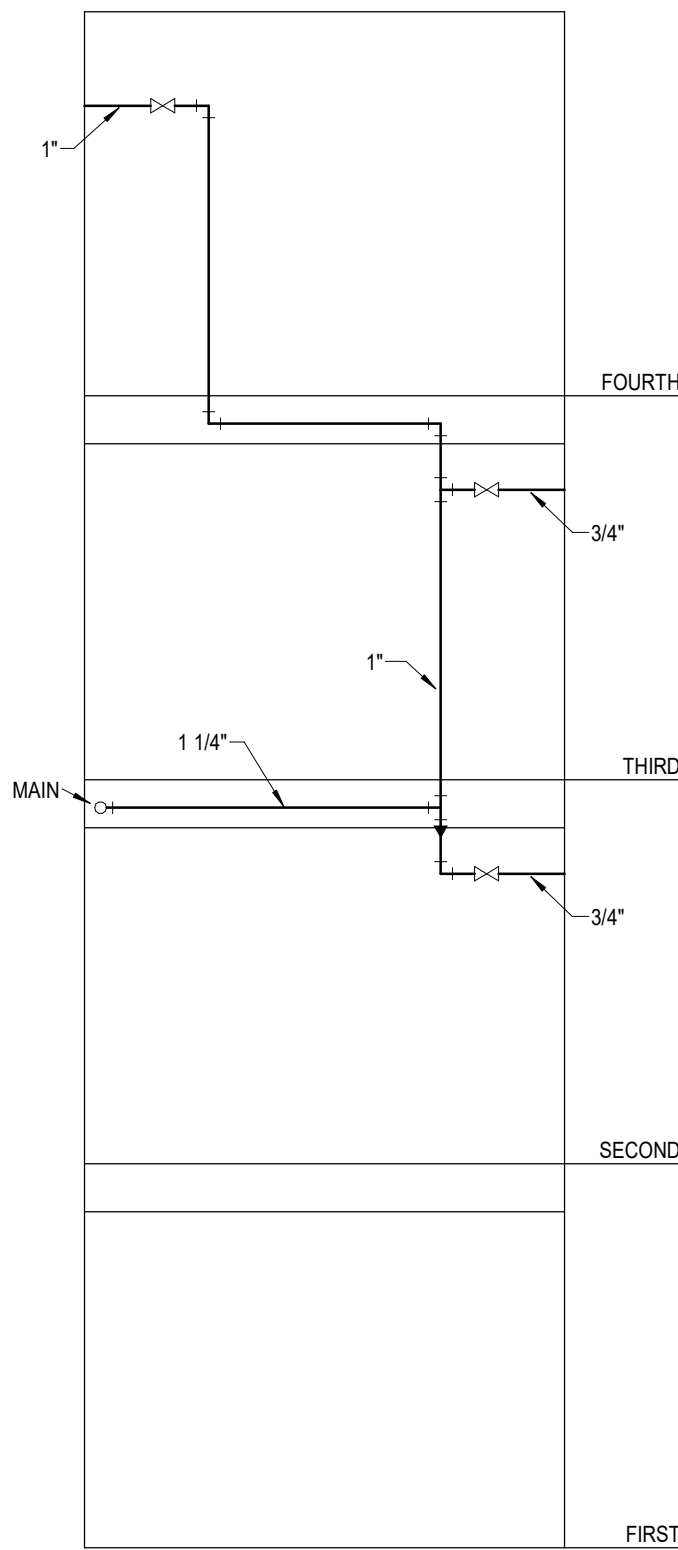
1b Plumbing Riser
NOT TO SCALE
1 BATH + PENTHOUSE



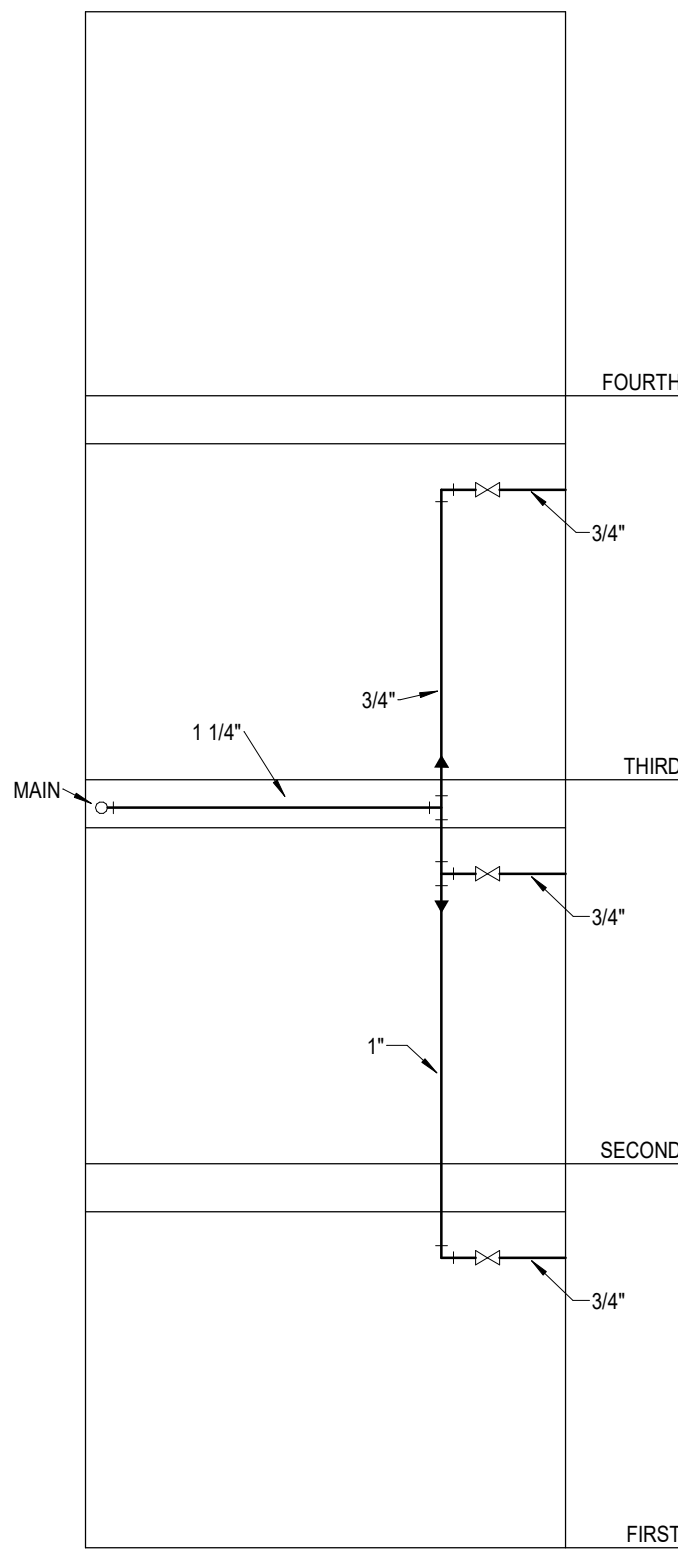
2 Plumbing Riser
NOT TO SCALE
2 BATH



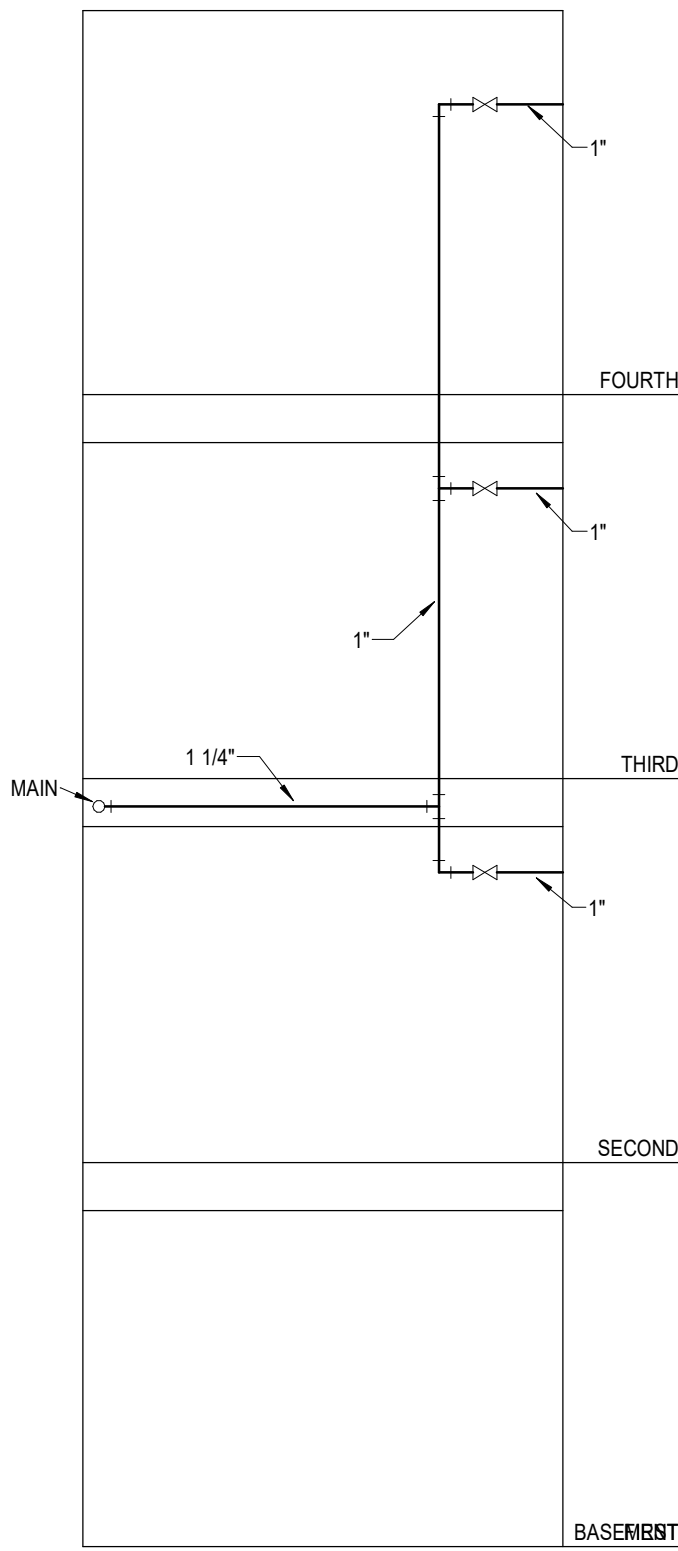
3a Plumbing Riser
NOT TO SCALE
1 BATH



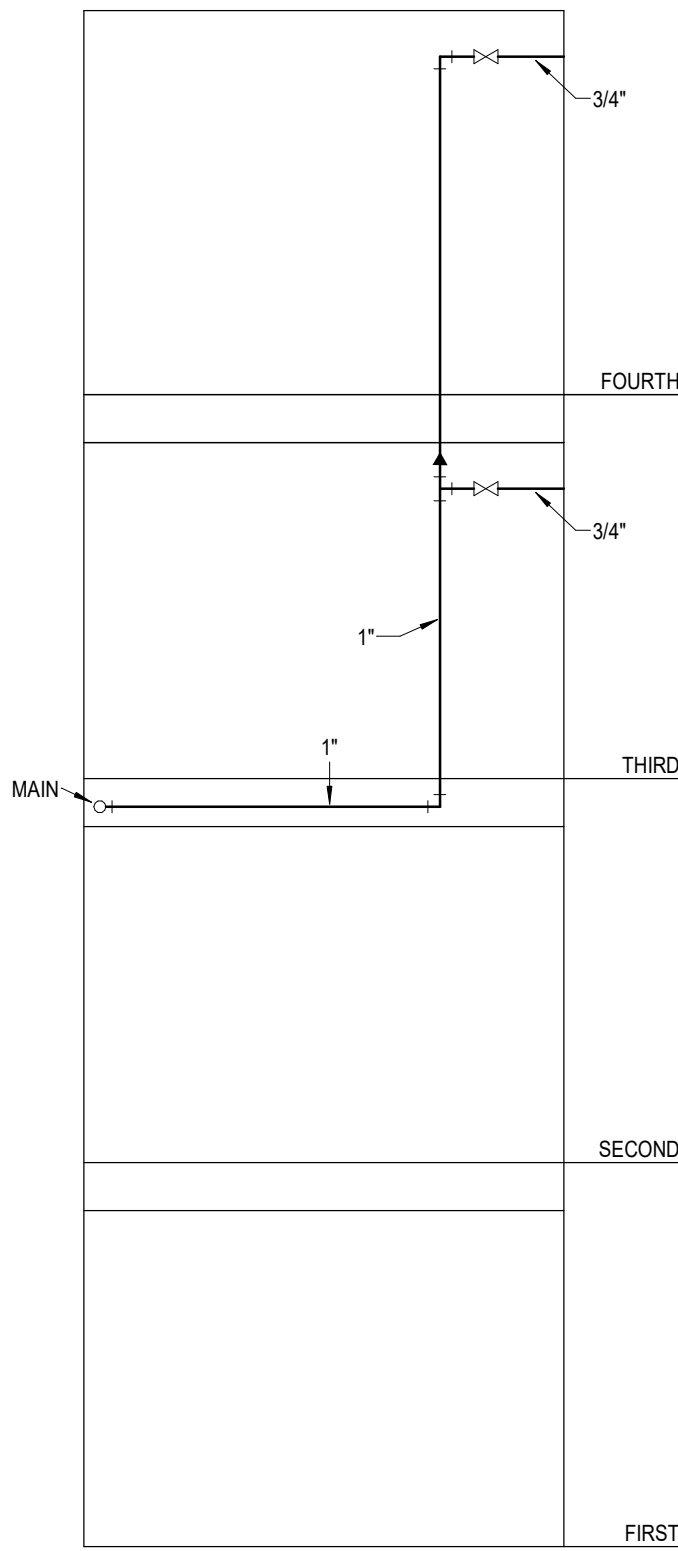
3b Plumbing Riser
NOT TO SCALE
1 BATH + PENTHOUSE



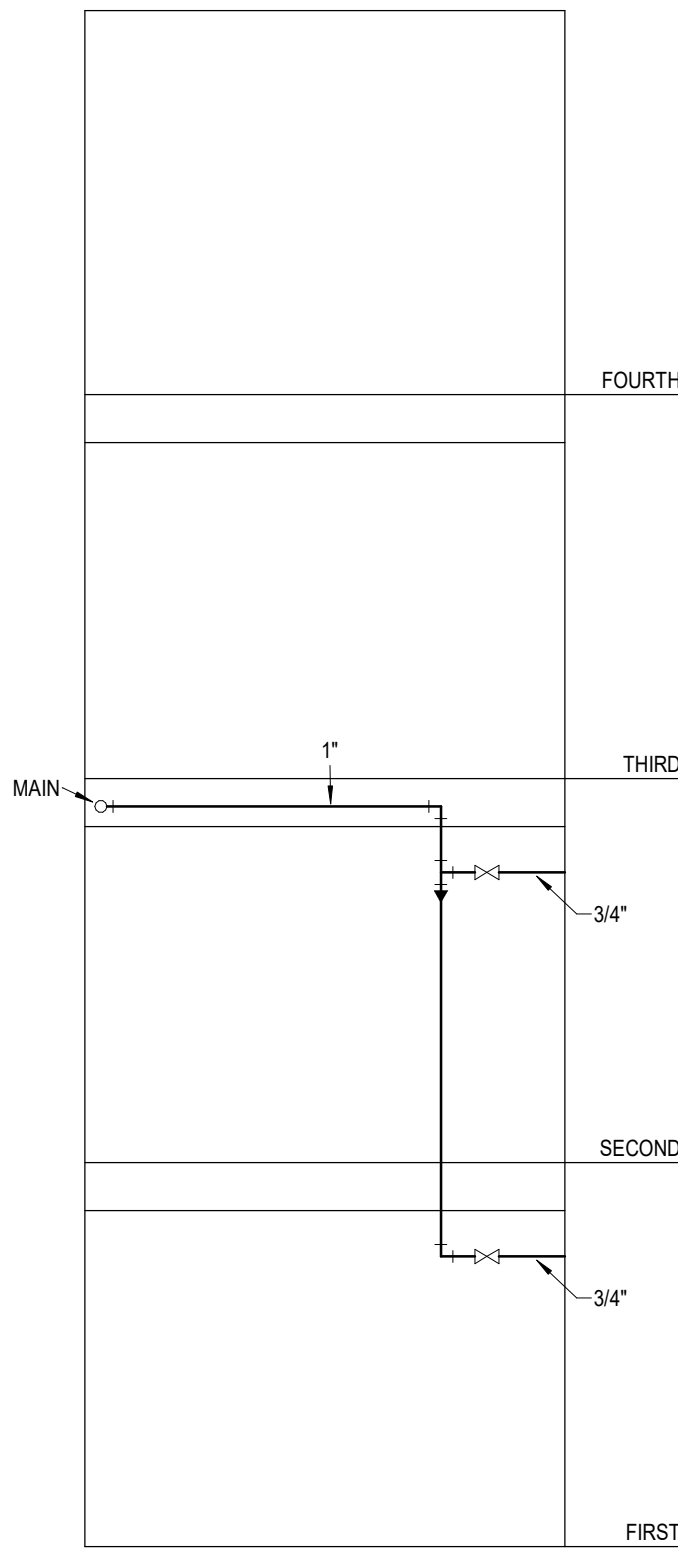
3c Plumbing Riser
NOT TO SCALE
1 BATH



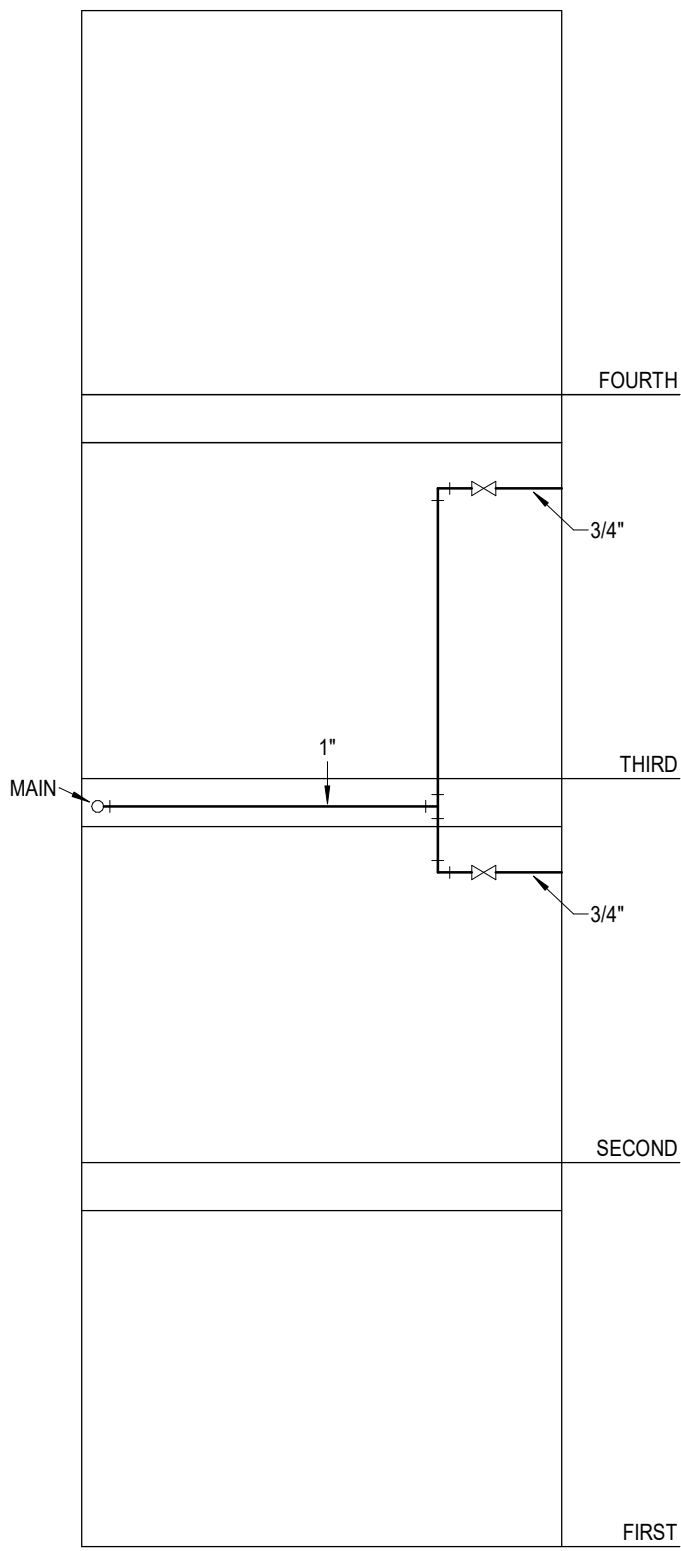
4 Plumbing Riser
NOT TO SCALE
2 BATH



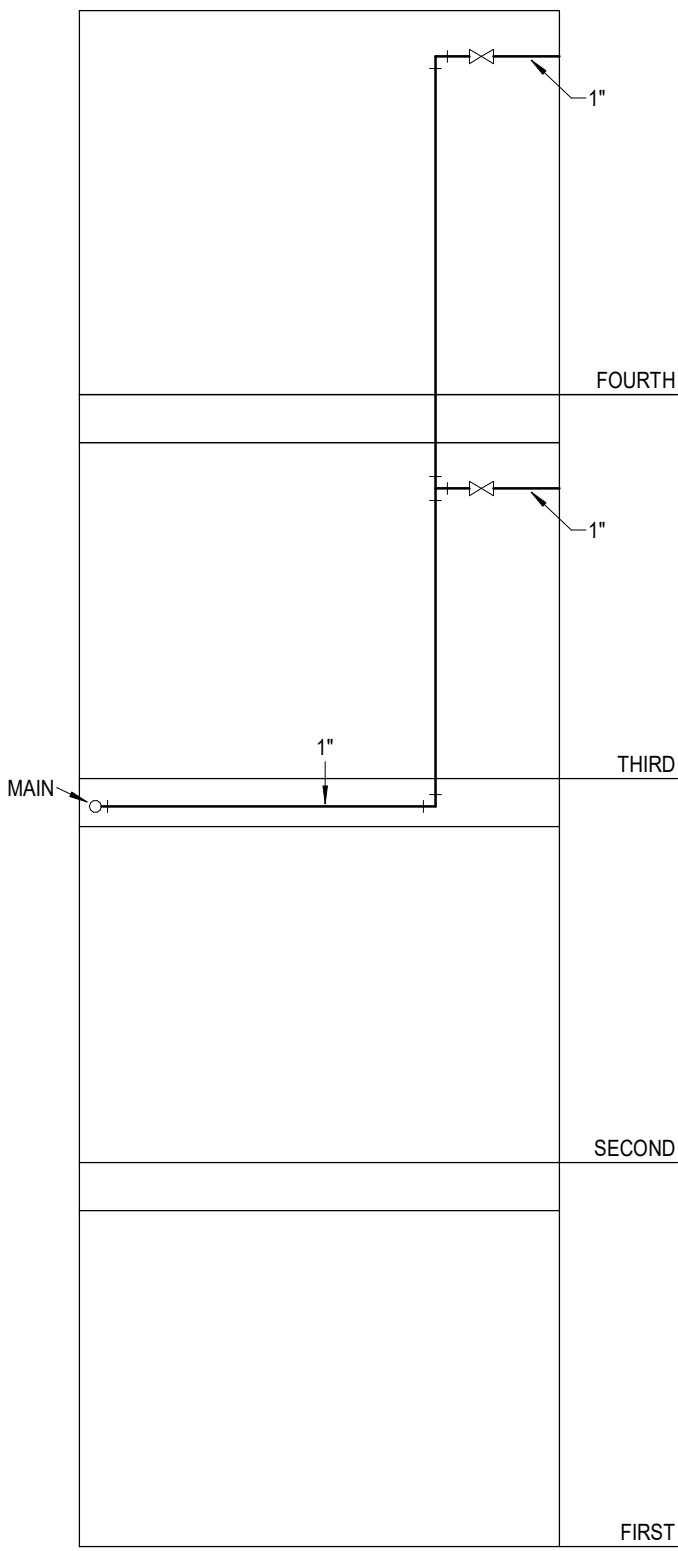
5a Plumbing Riser
NOT TO SCALE
1 BATH



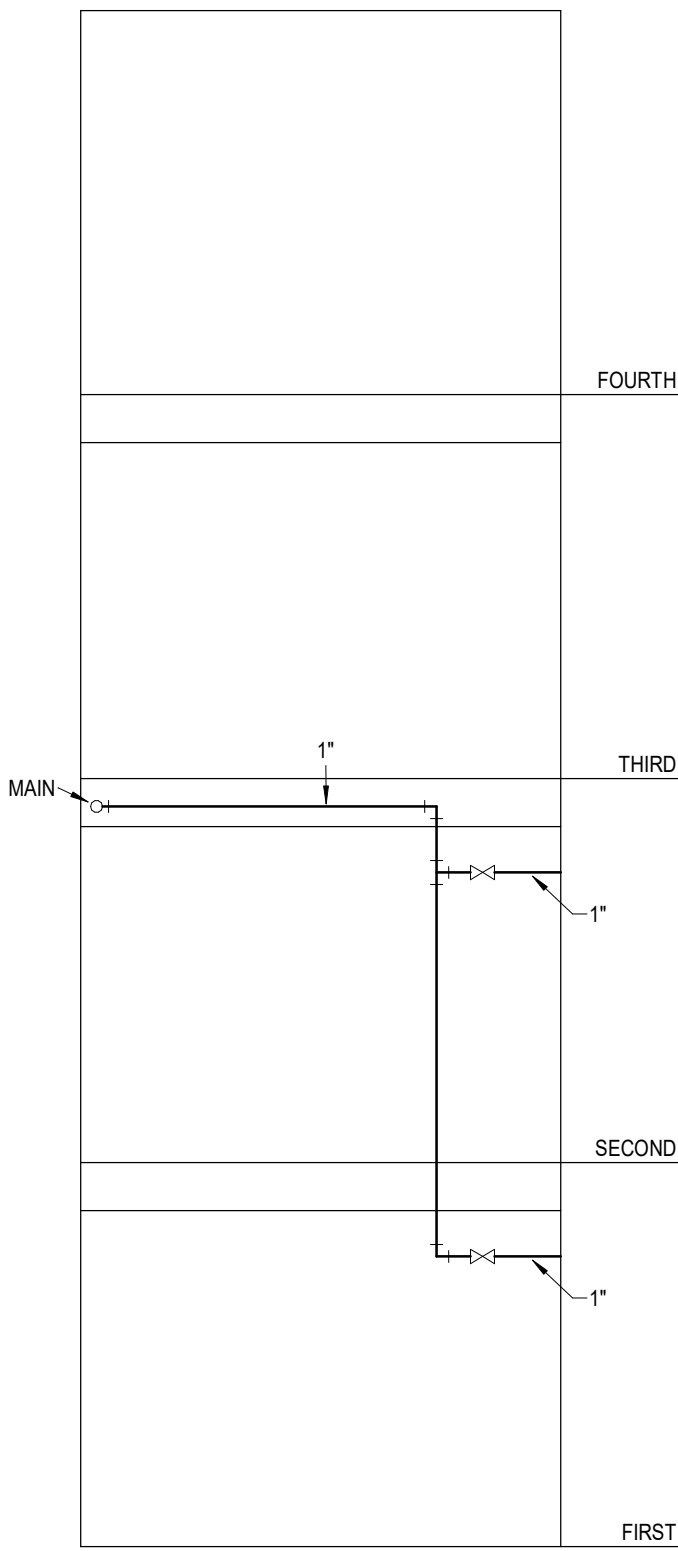
5b Plumbing Riser
NOT TO SCALE
1 BATH



5c Plumbing Riser
NOT TO SCALE
1 BATH



6a Plumbing Riser
NOT TO SCALE
2 AND PENTHOUSE



6b Plumbing Riser
NOT TO SCALE
2 BATH



03/15/2023

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TRIOLOGY



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03.15.2023 - PERMIT SUBMITTAL

REVISIONS

JOB NO. 705921 DATE 03.15.2023

DRAWN BY LSA CAD

4/11/2023

CITY COMMENTS

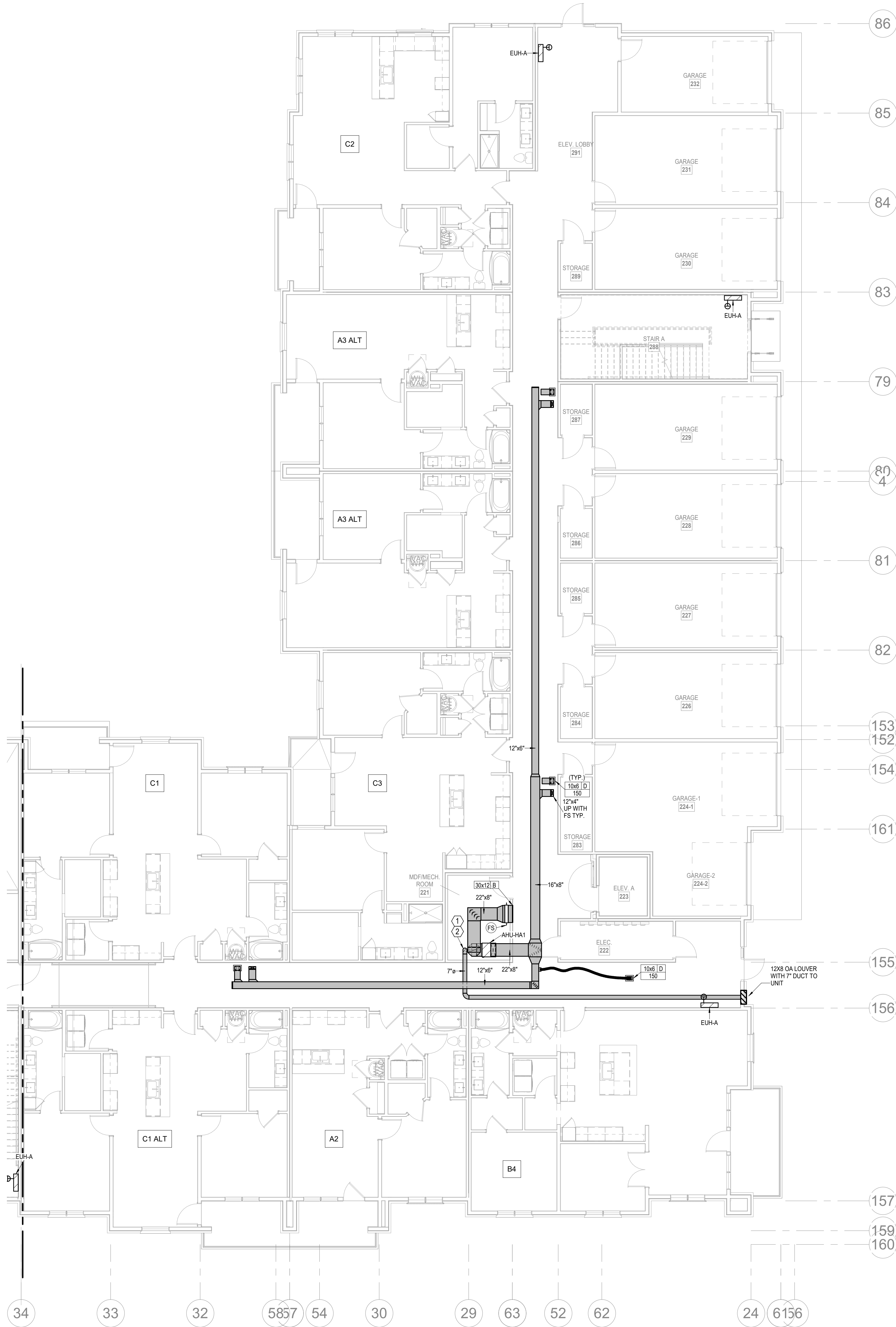
SHEET NAME PLUMBING RISERS

SHEET NO.

P3.04



LS&A
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3639 SW Summerfield Drive, Suite A
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Telephone: (785) 233-3332
Email: lsas@lsas.com
LSA PROJECT NO. 2204061



1 1ST FLOOR - SEGMENT A
HVAC
1/8" = 1'-0"

- NOTES:**
- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
 - ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
 - SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
 - MAINTAIN 3 FEET CLEARANCE FROM EXHAUST DUCTS TO BUILDING OPENINGS AND 10 FEET TO AIR INTAKES.
 - ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
 - FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 15 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.

ARCHITECTURE
LANDSCAPE
ARCHITECTURE
ENERGY SERVICES

NSPJ

ARCHITECTSSM
3515 W. 75TH ST., SUITE 201
PRAIRIE VILLAGE, KS 66208

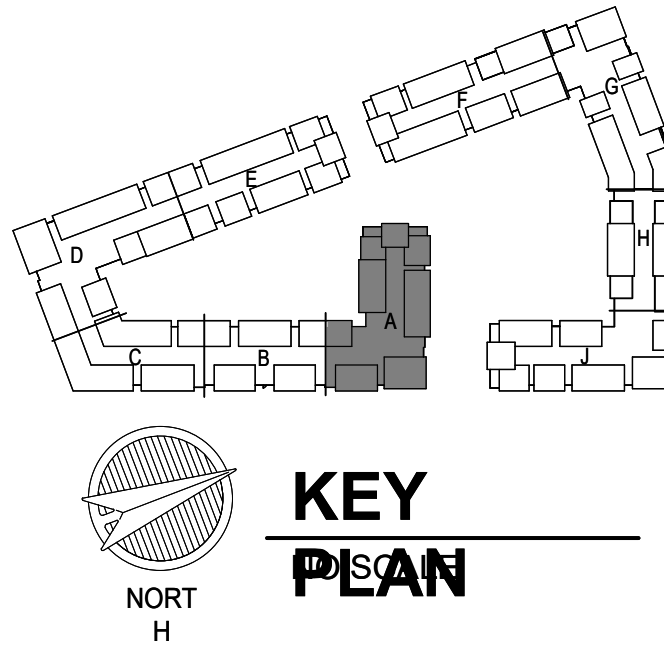
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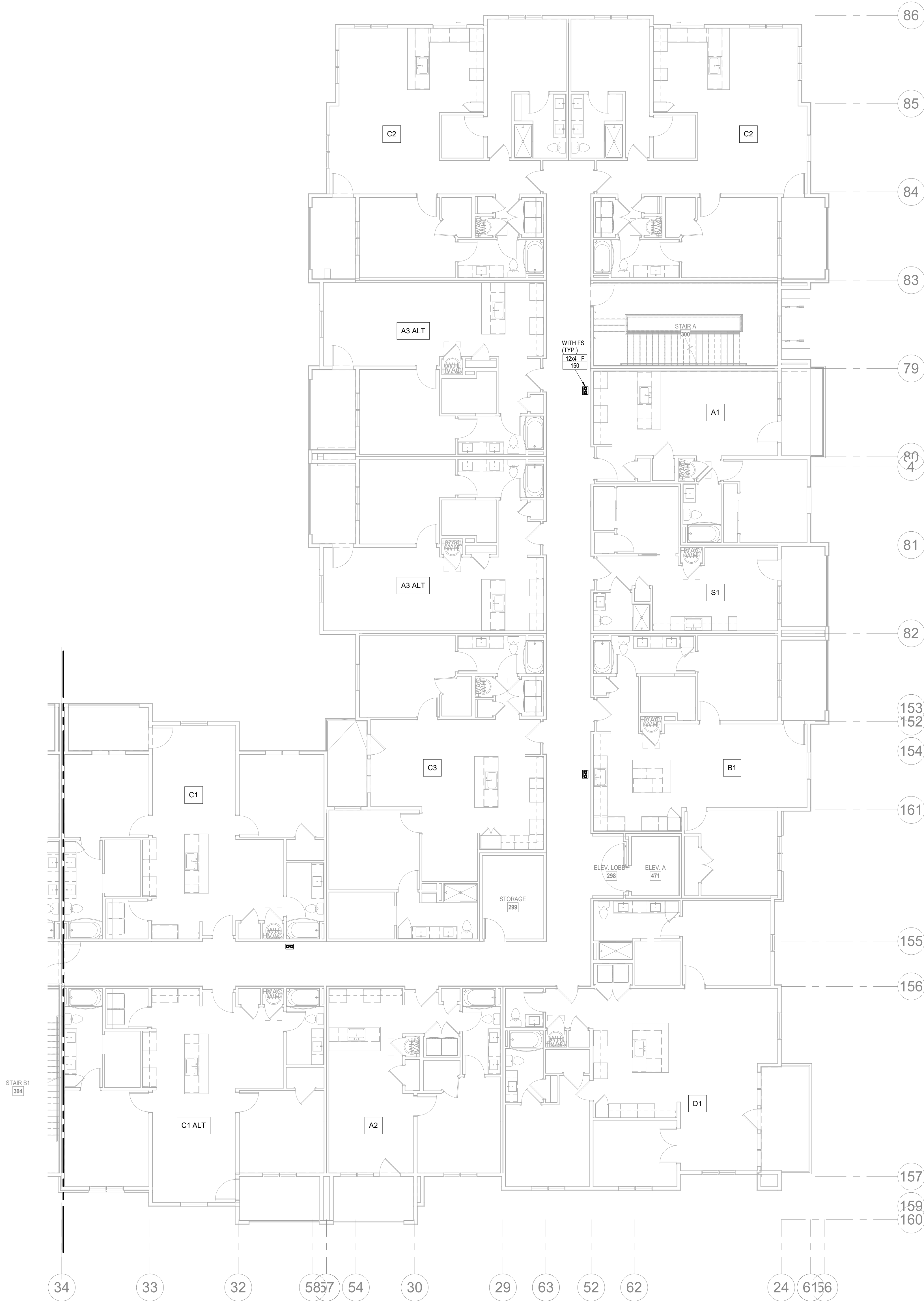
REVISIONS

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Consulting Engineers
& Associates P.A.
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6625 College Boulevard, Suite 102
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Telephone: (785) 233-3332
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

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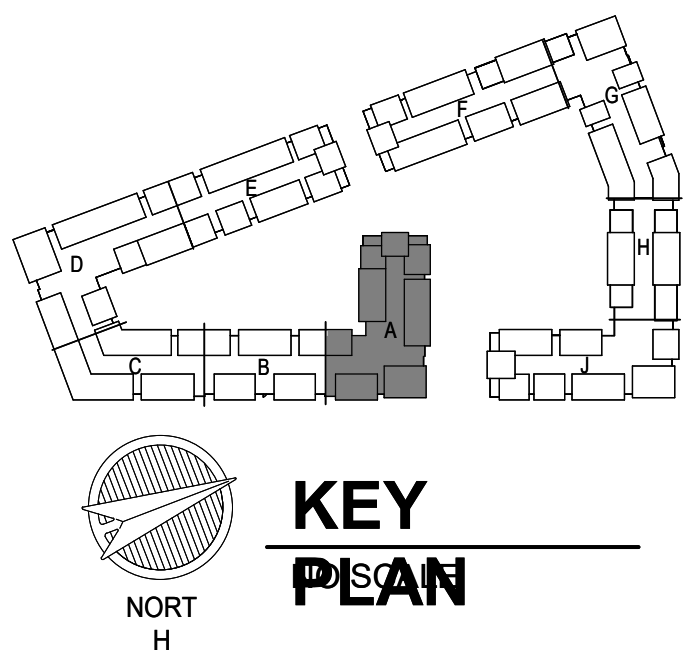
4/11/2023
CITY COMMENTS
SEGMENT A - 1ST FLOOR - HVAC
SHEET NO.

M1.01



1 2ND FLOOR - SEGMENT A
HVAC
1/8" = 1'-0"

- NOTES:
- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
 - ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
 - SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
 - MAINTAIN 3 FEET CLEARANCE FROM EXHAUST DUCTS TO BUILDING OPENINGS AND 10 FEET TO AIR INTAKES.
 - ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
 - FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 15 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.



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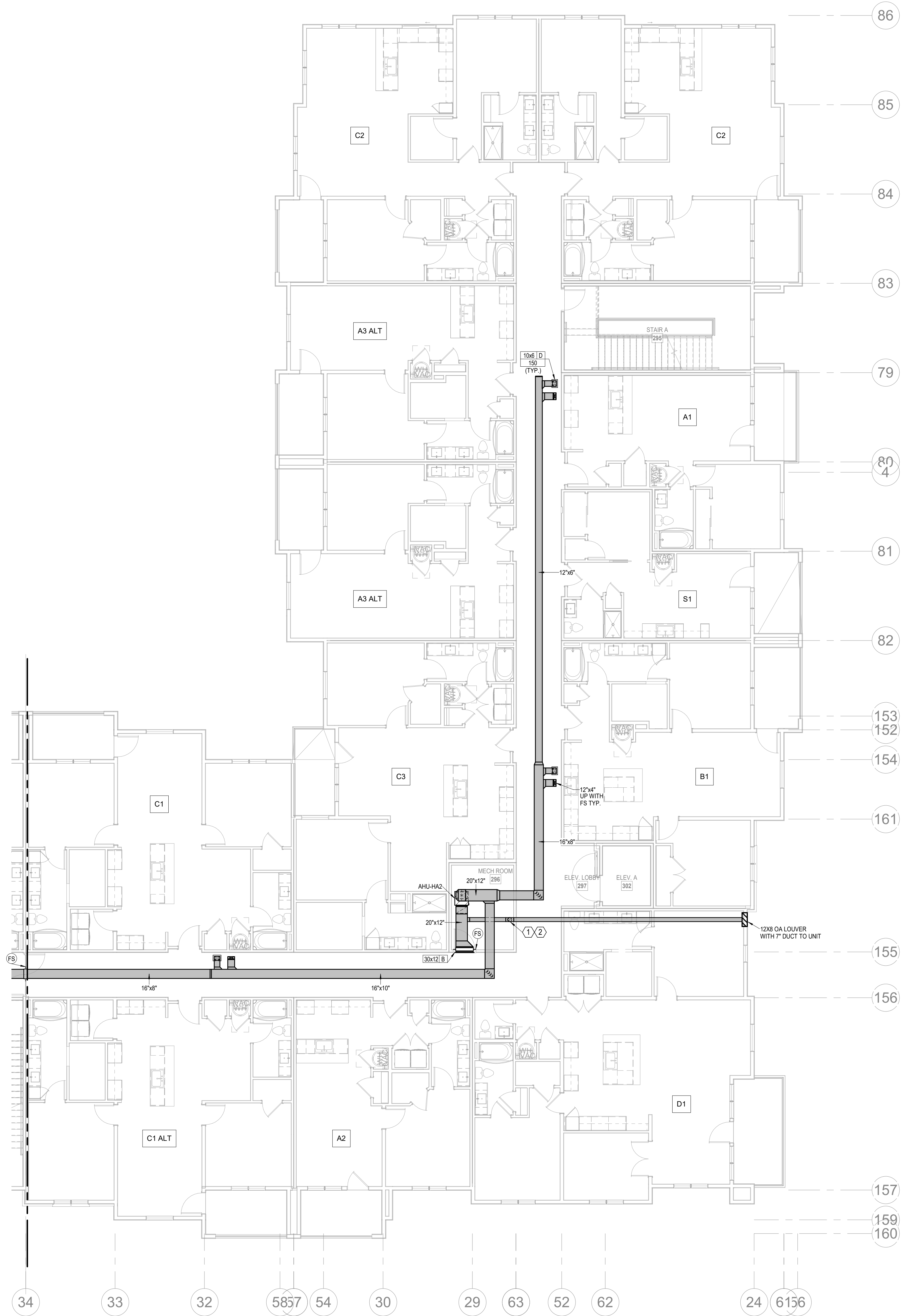
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Email: lsa@lsapa.com
LSA PROJECT NO. 2204061

SHEET NAME
SEGMENT A - 2ND FLOOR - HVAC
SHEET NO.

M1.02



1 3RD FLOOR - SEGMENT A
HVAC
1/8" = 1'-0"

- NOTES:
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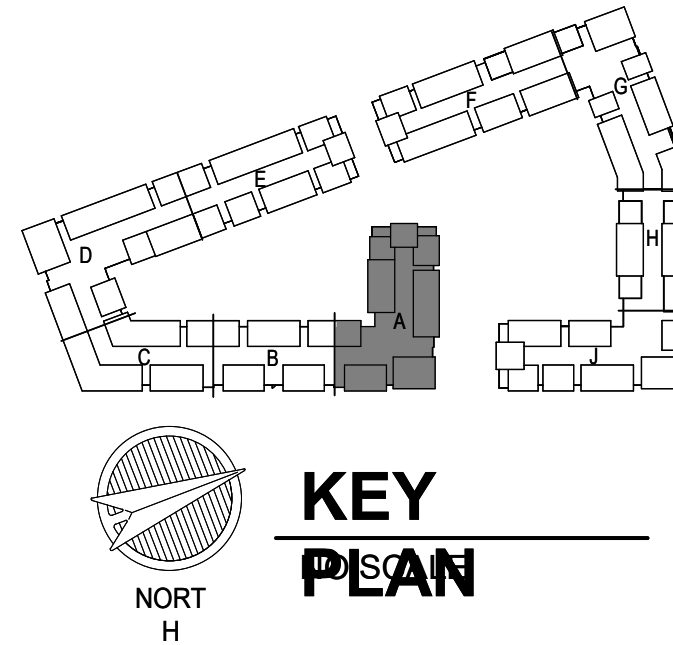
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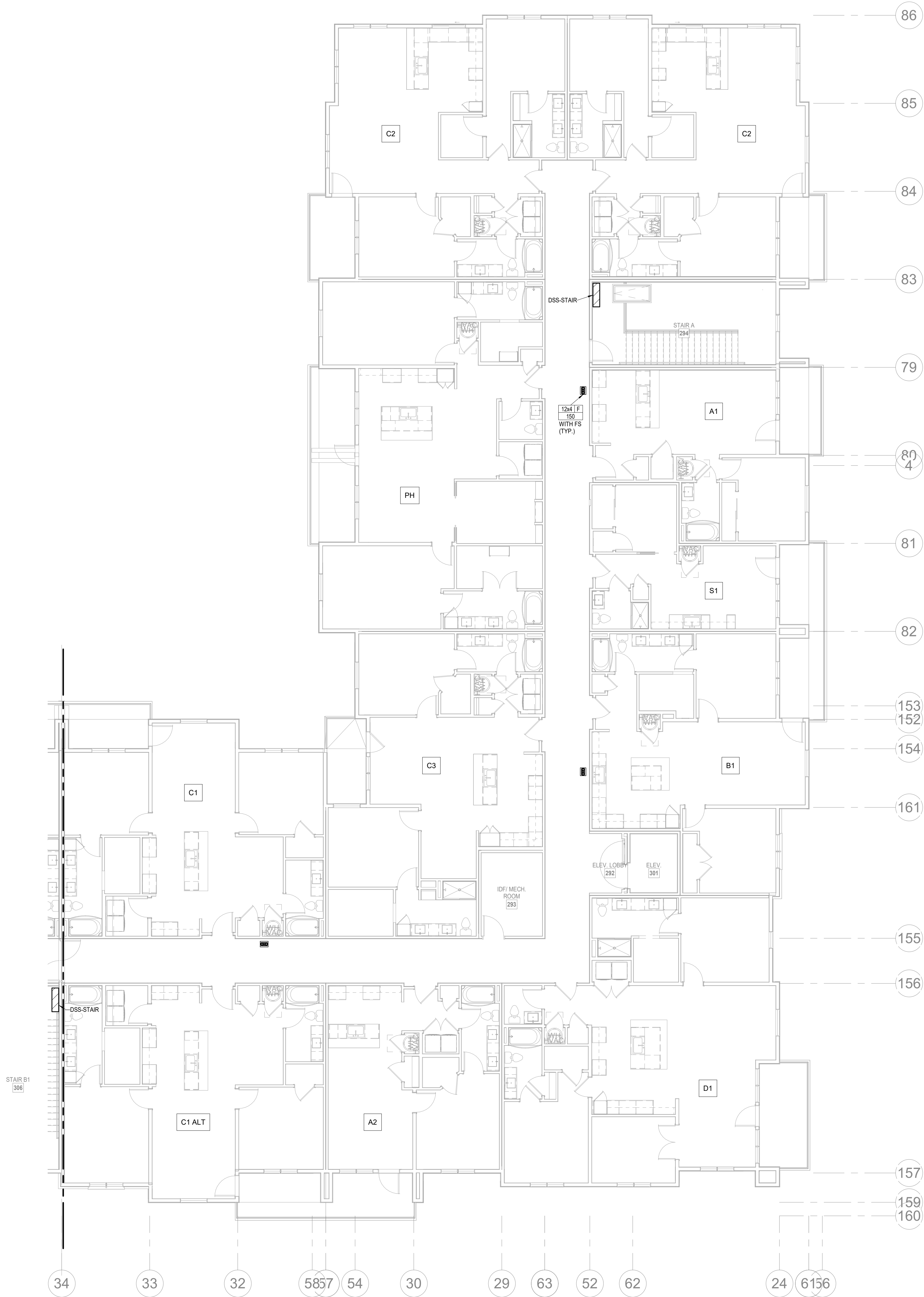


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DATE 03.15.2023

SHEET NAME
SEGMENT A - 3RD FLOOR - HVAC
SHEET NO.

M1.03



1 4TH FLOOR - SEGMENT A
HVAC
1/8" = 1'-0"

- NOTES:**
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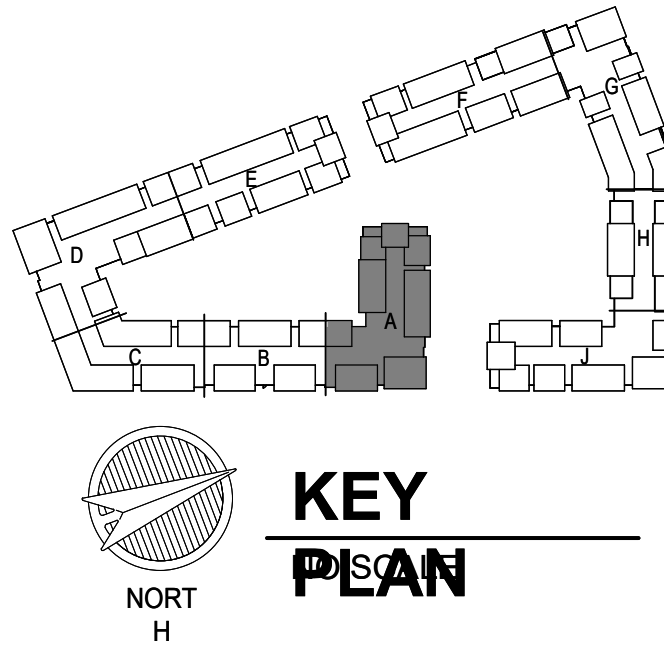
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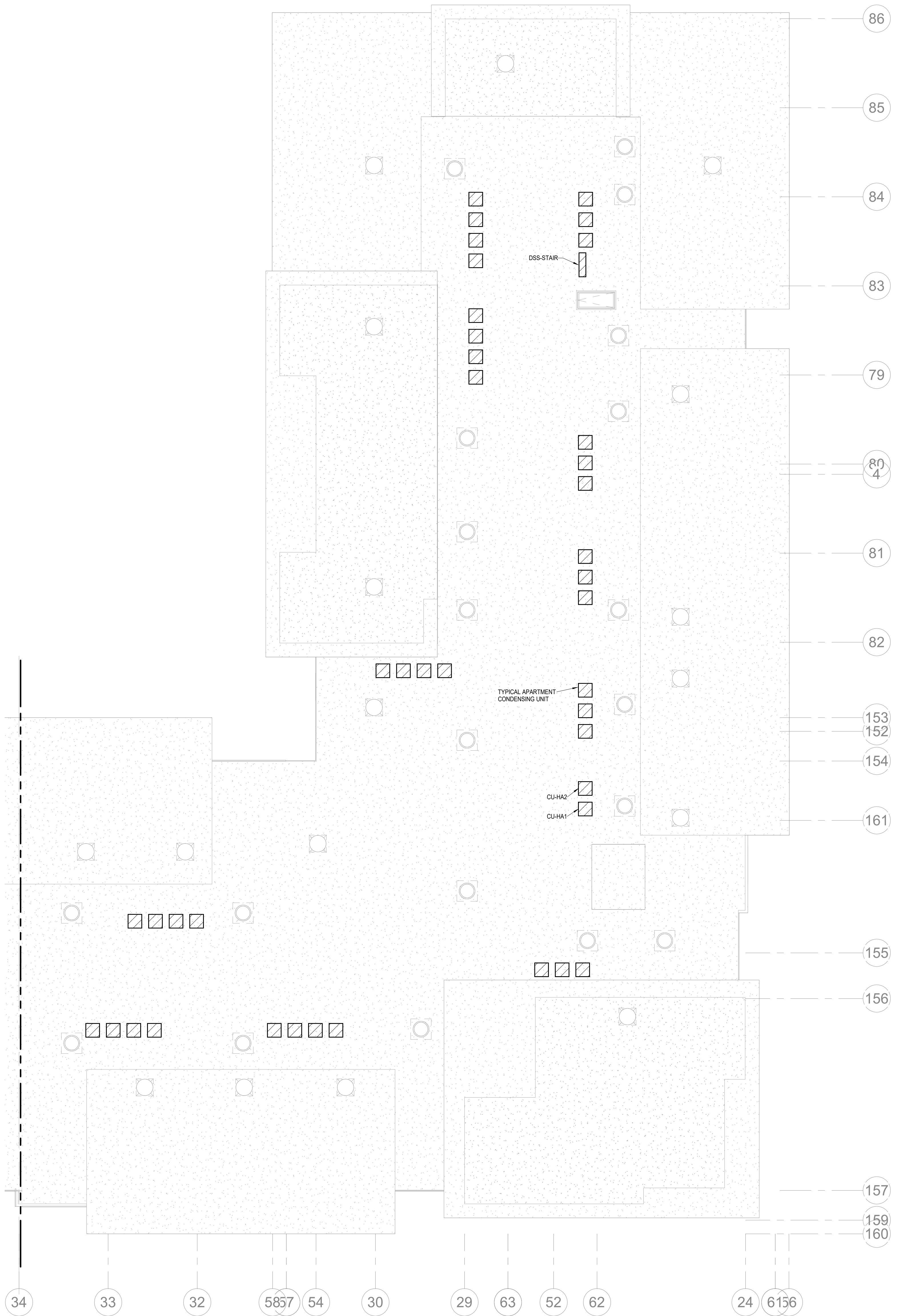
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SHEET NAME
CITY COMMENTS

SEGMENT A - 4TH FLOOR - HVAC

SHEET NO.

M1.04



1 ROOF PLAN - SEGMENT A
HVAC
1/8" = 1'-0"

- NOTES:**
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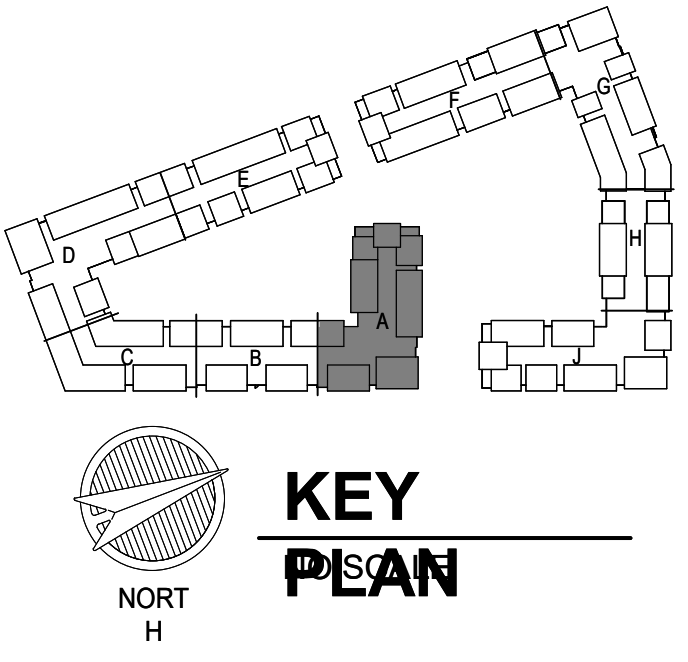
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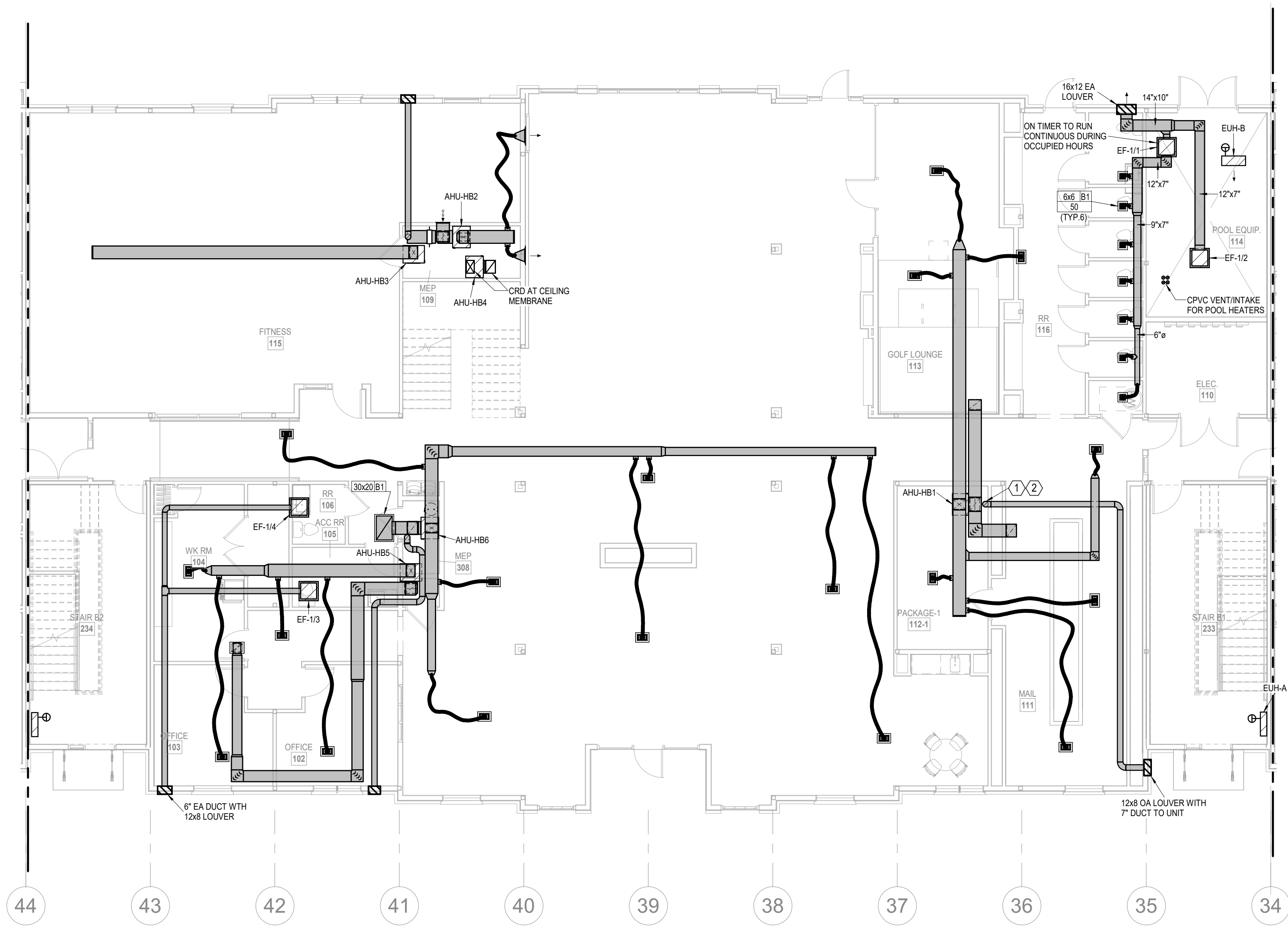
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SHEET NAME
CITY COMMENTS

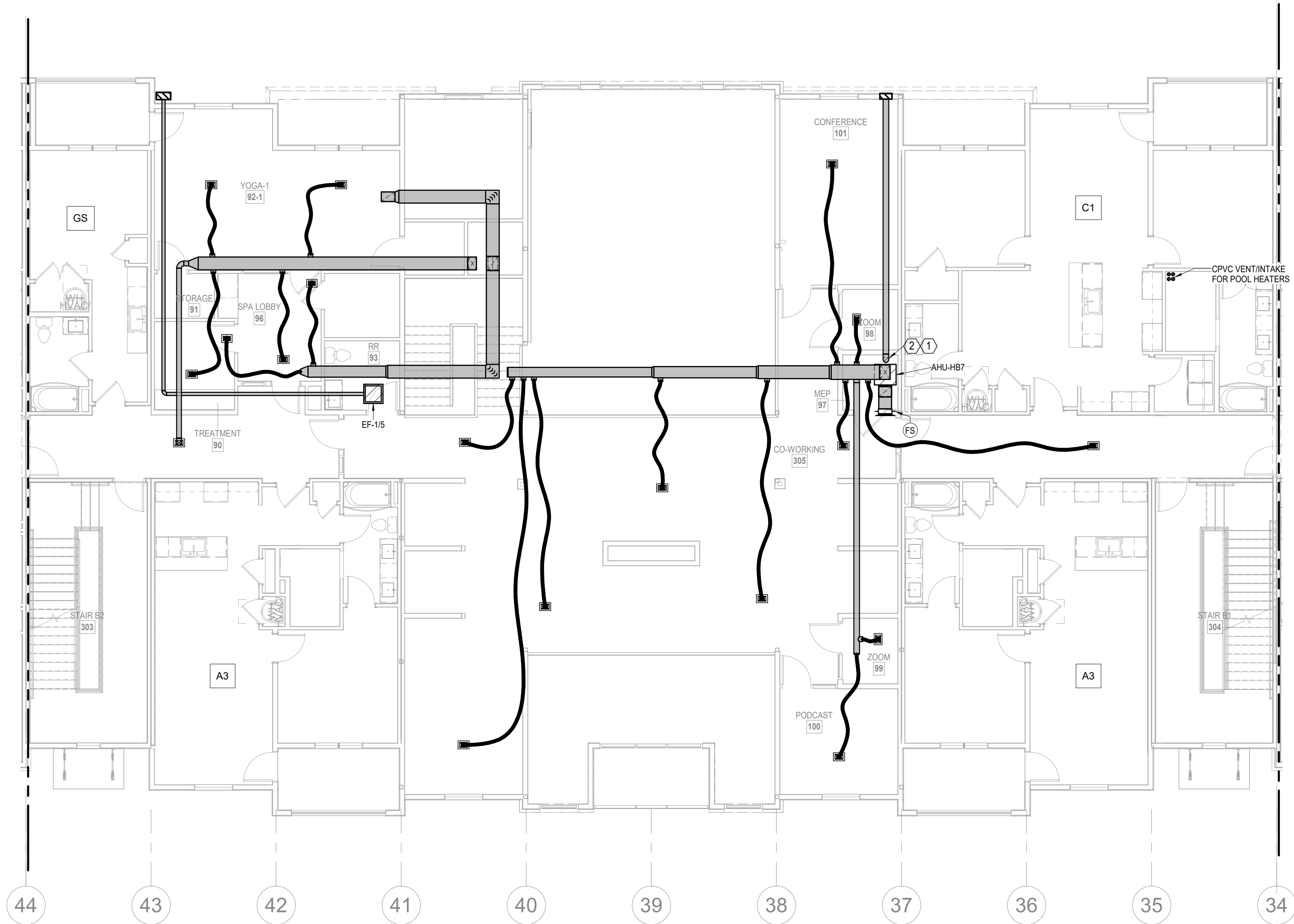
SEGMENT A - ROOF PLAN - HVAC

SHEET NO.

M1.05



1 1ST FLOOR - SEGMENT B
HVAC
1/8" = 1'-0"



2 2ND FLOOR - SEGMENT B
HVAC
1/8" = 1'-0"

- NOTES:**
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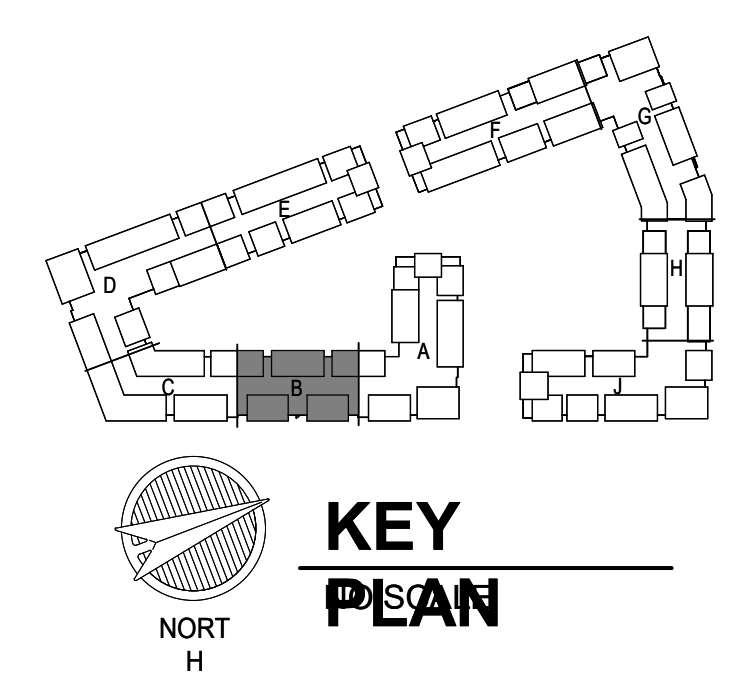
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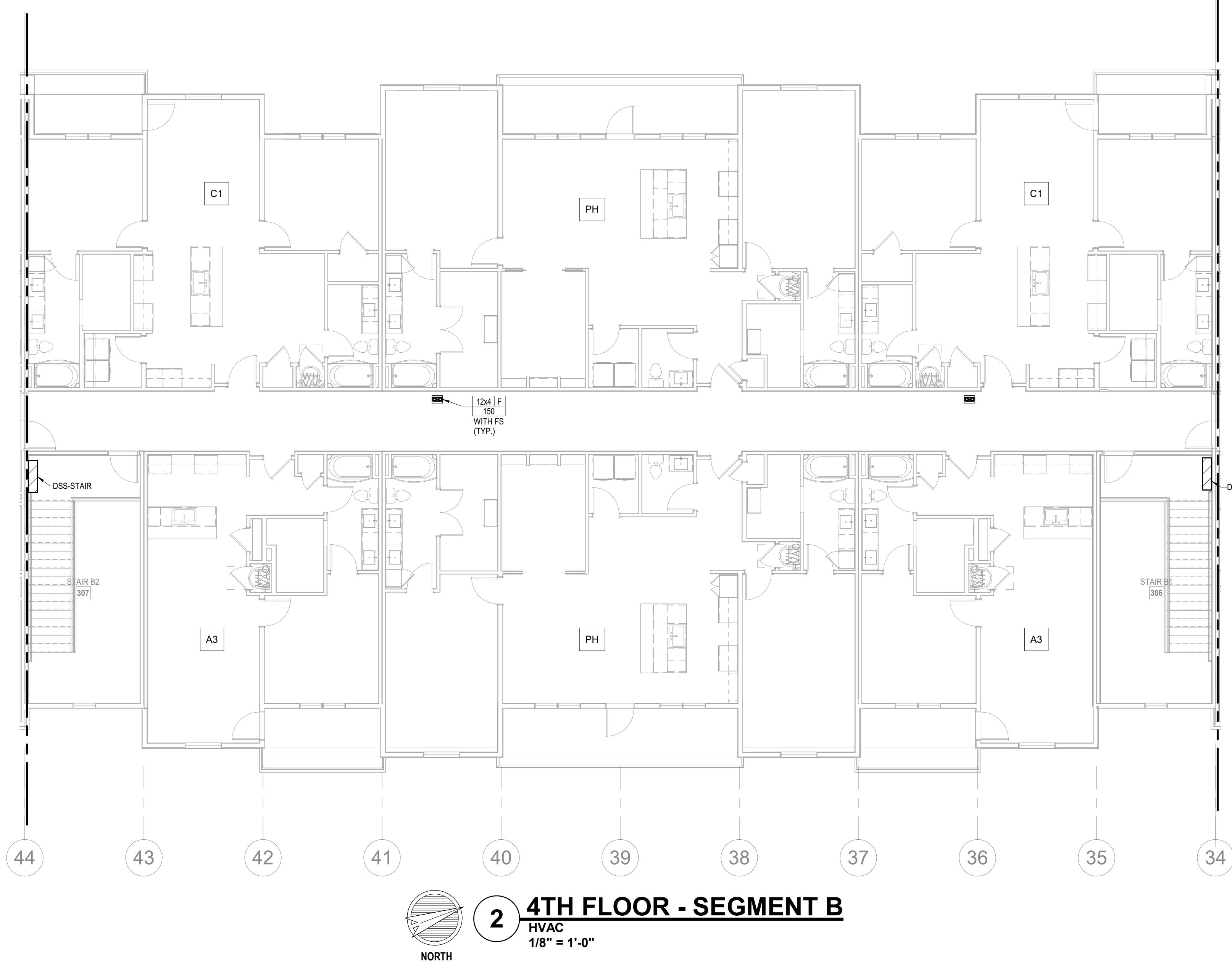
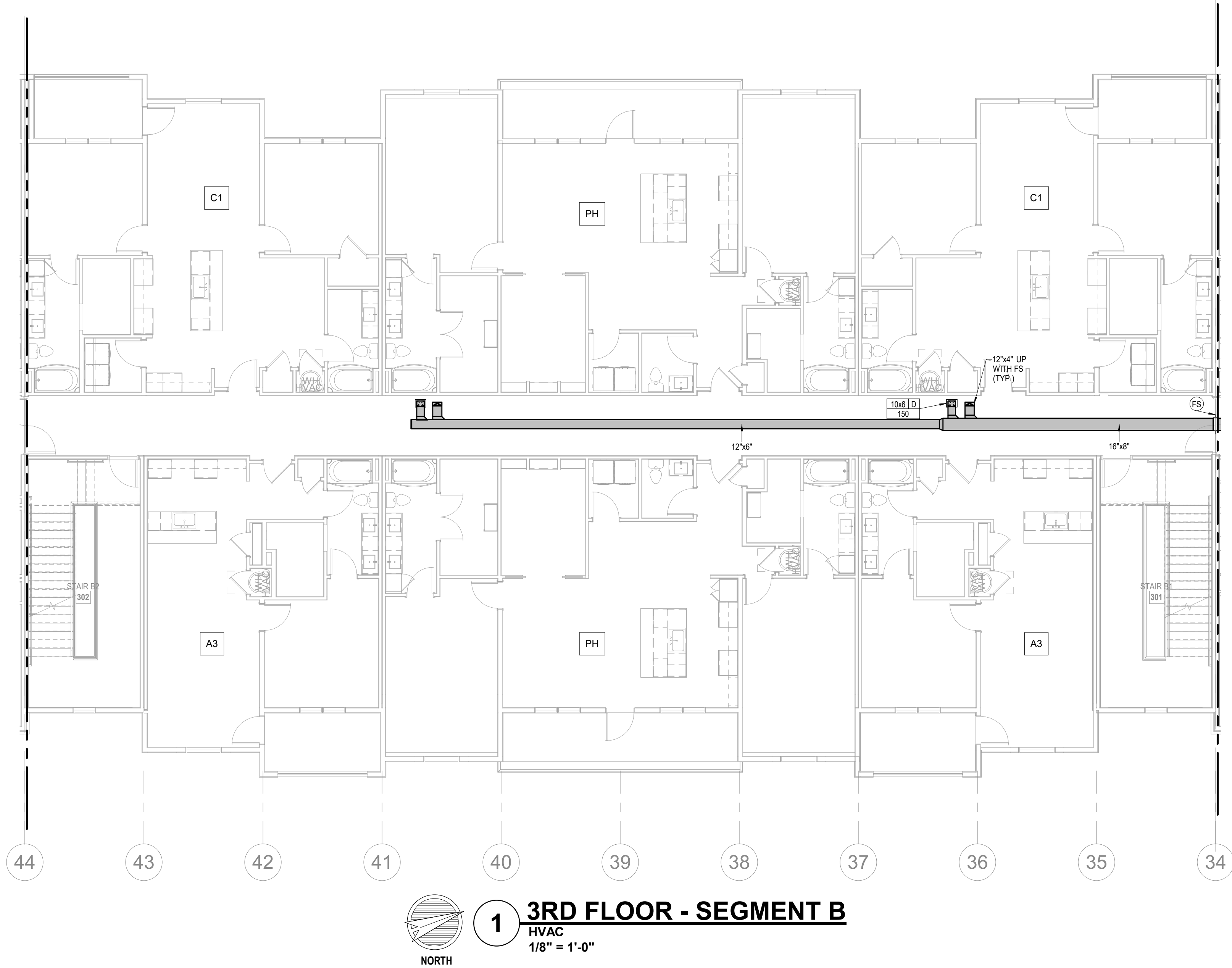


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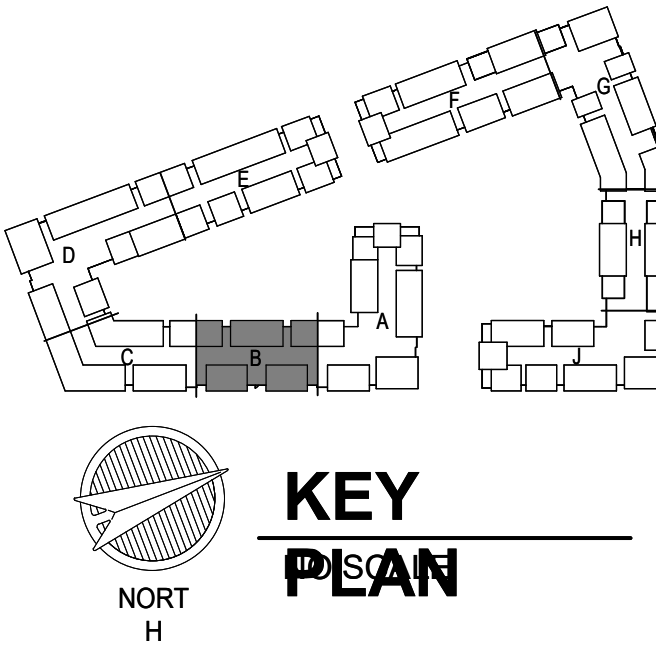
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SHEET NAME
SEGMENT B - 1ST & 2ND FLOOR - HVAC
SHEET NO.

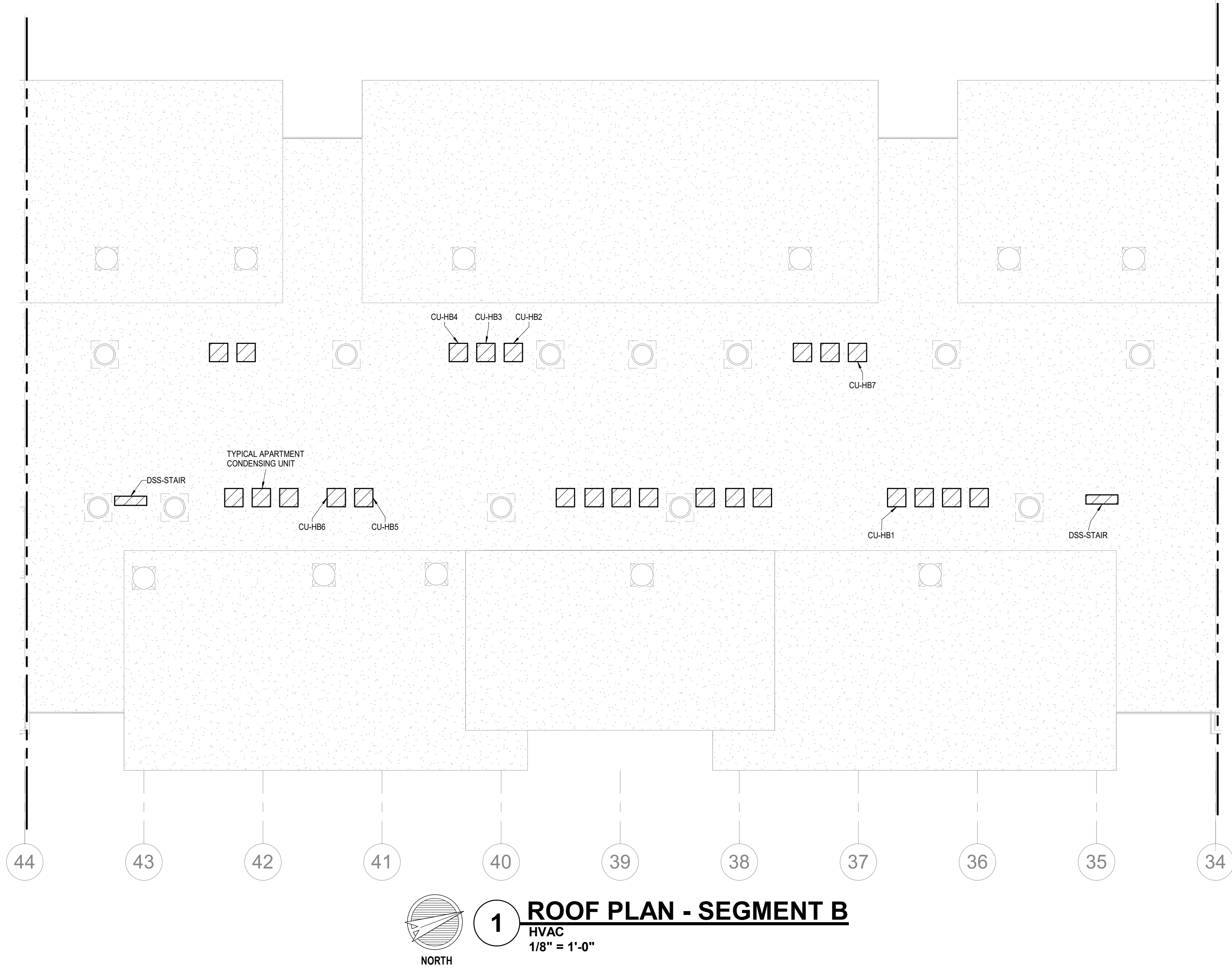
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M1.06



- NOTES:
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- NOTES:
1.

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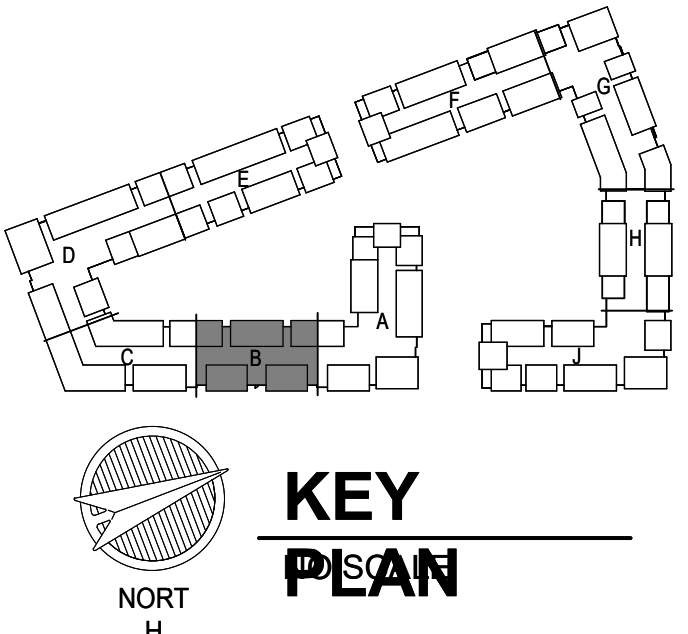
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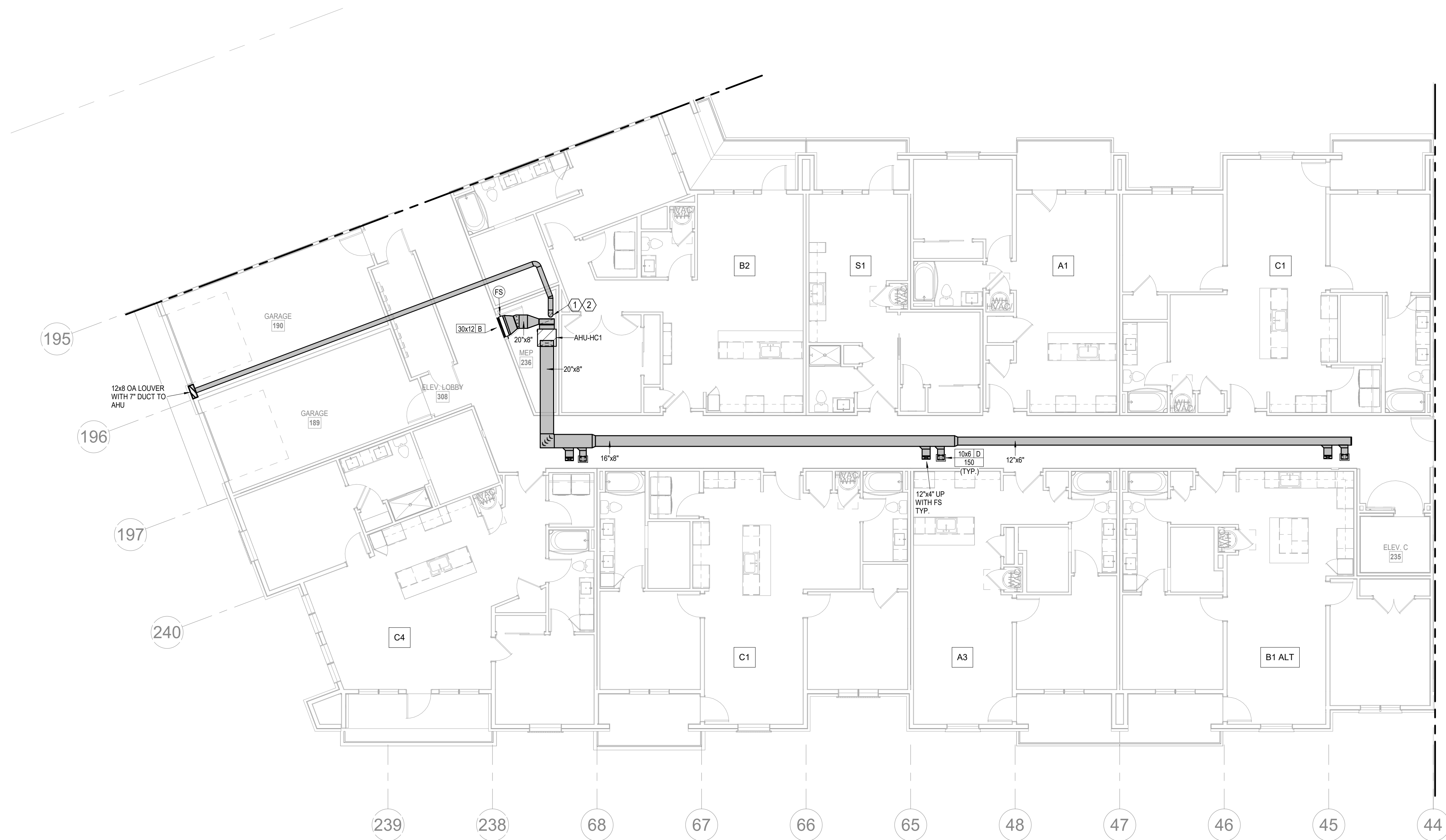


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CITY COMMENTS
SEGMENT B - ROOF PLAN - HVAC
SHEET NO.

M1.08



1 1ST FLOOR - SEGMENT C
HVAC
1/8" = 1'-0"

- NOTES:**
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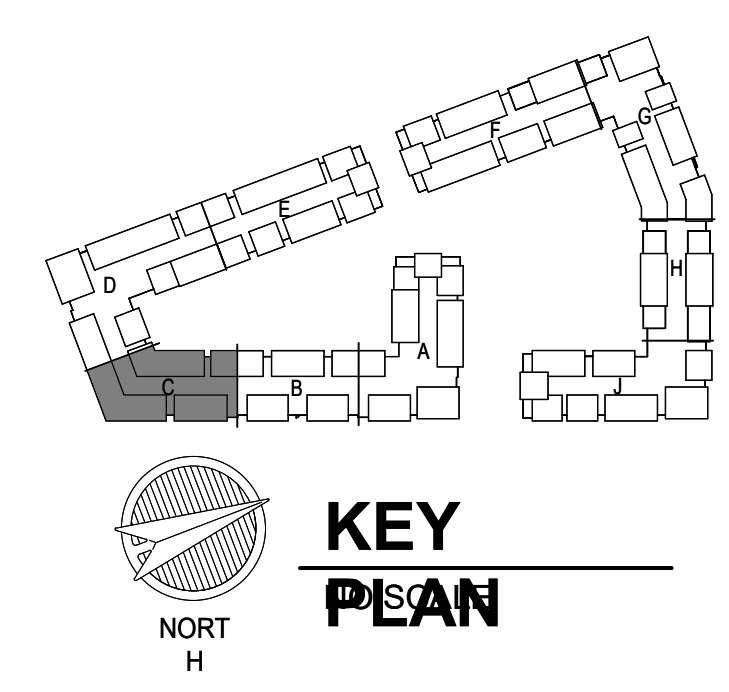
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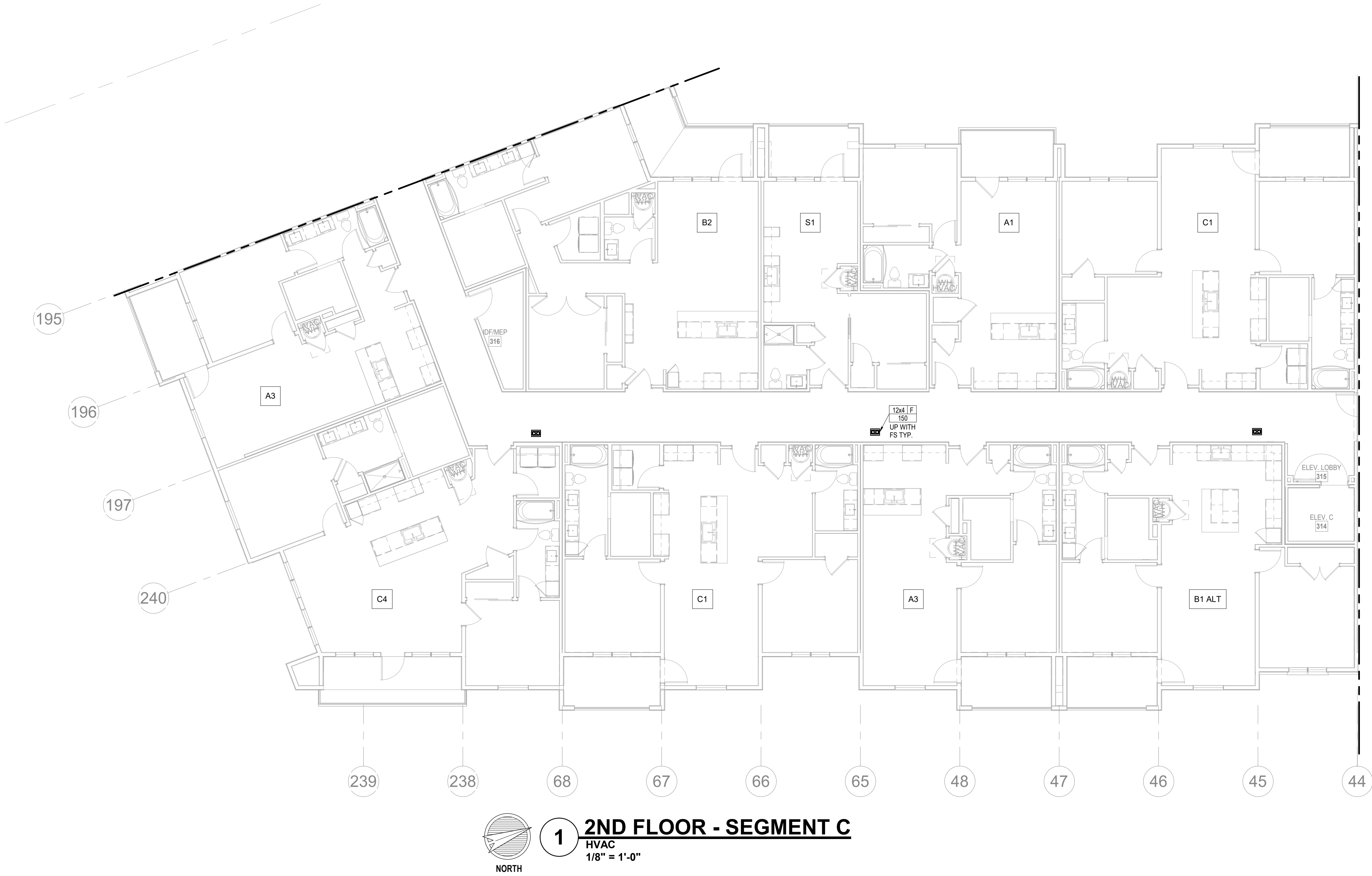


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SHEET NAME **CITY COMMENTS**
SEGMENT C - 1ST FLOOR - HVAC
SHEET NO. **M1.09**



- NOTES:
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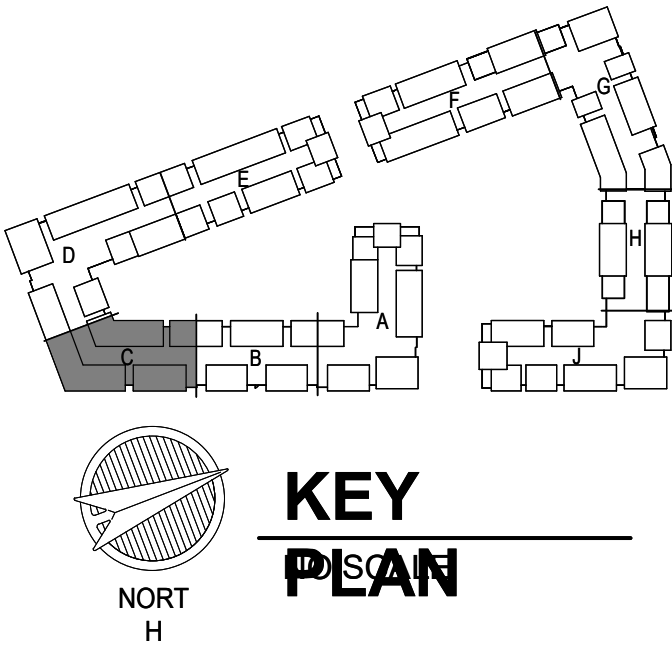
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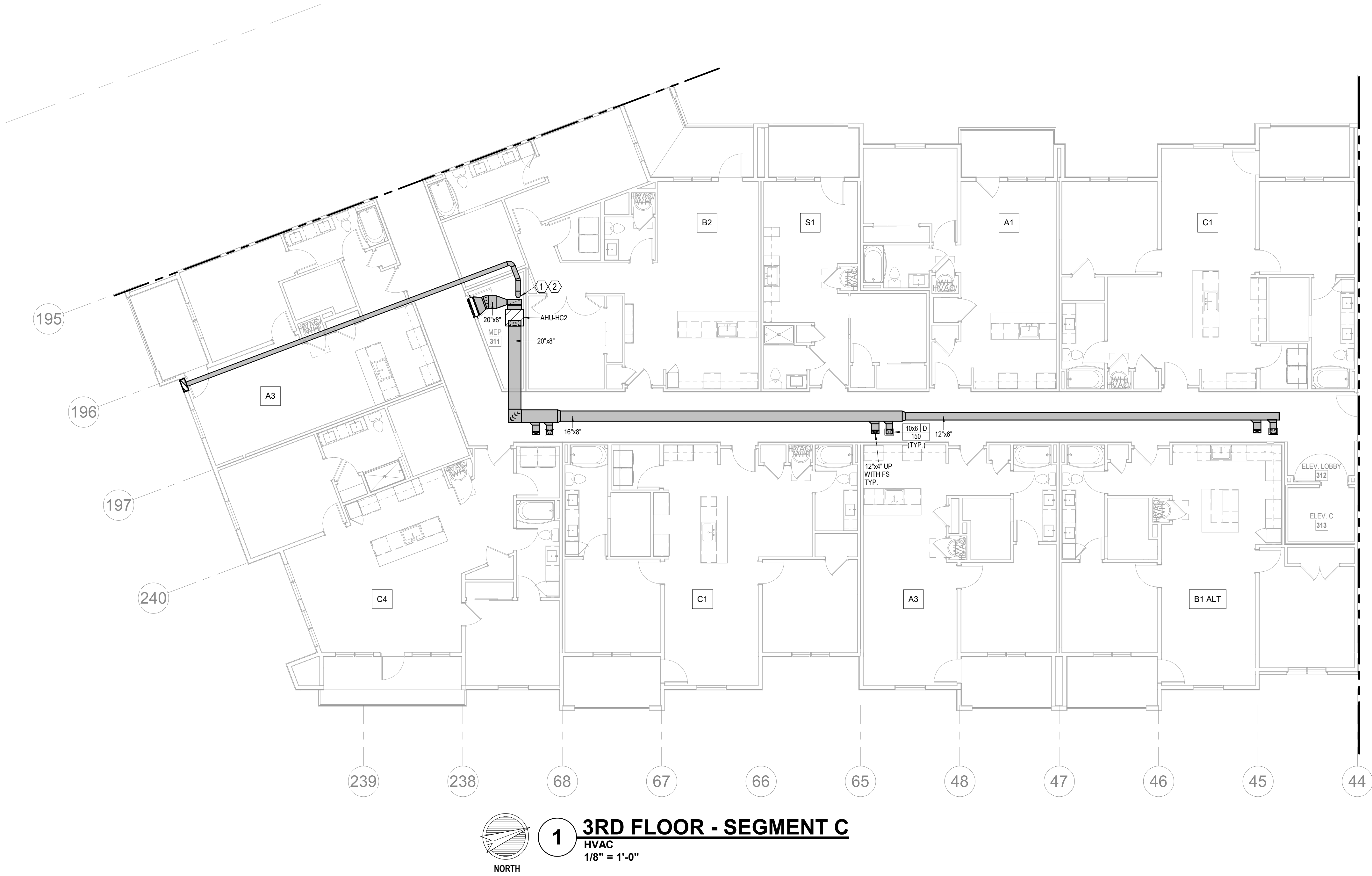
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CITY COMMENTS

SHEET NAME
SEGMENT C - 2ND FLOOR - HVAC

SHEET NO.

M1.10



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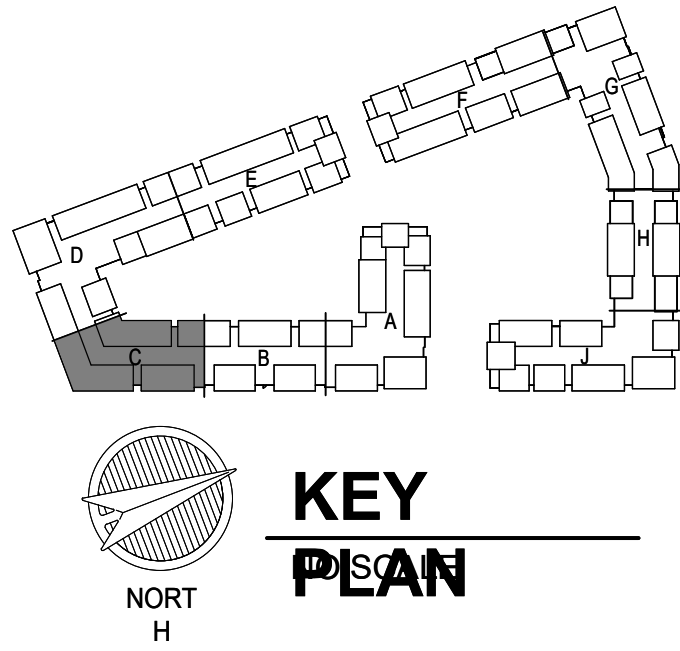
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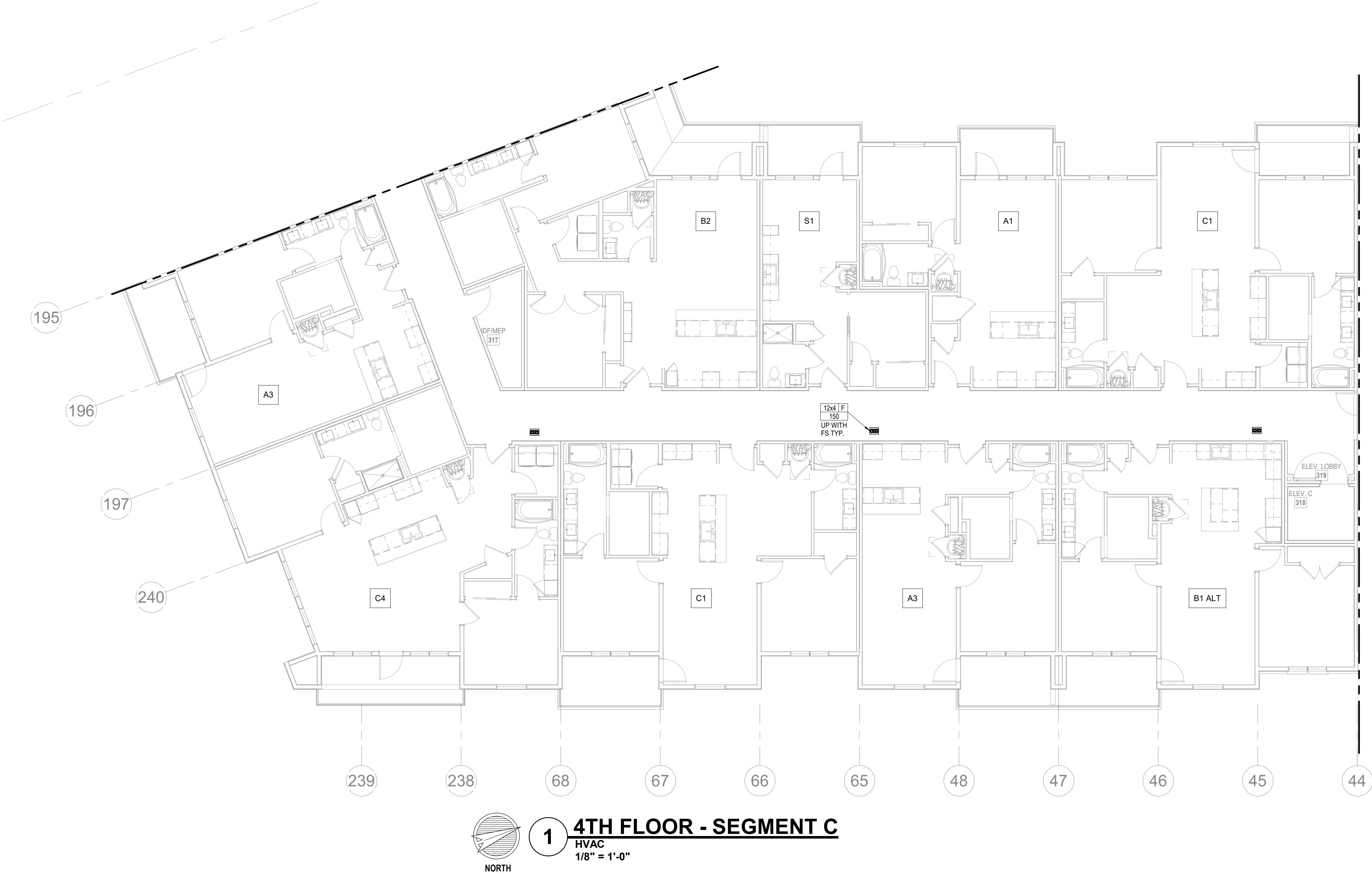
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CITY COMMENTS
SEGMENT C - 3RD FLOOR - HVAC
SHEET NO.

M1.11



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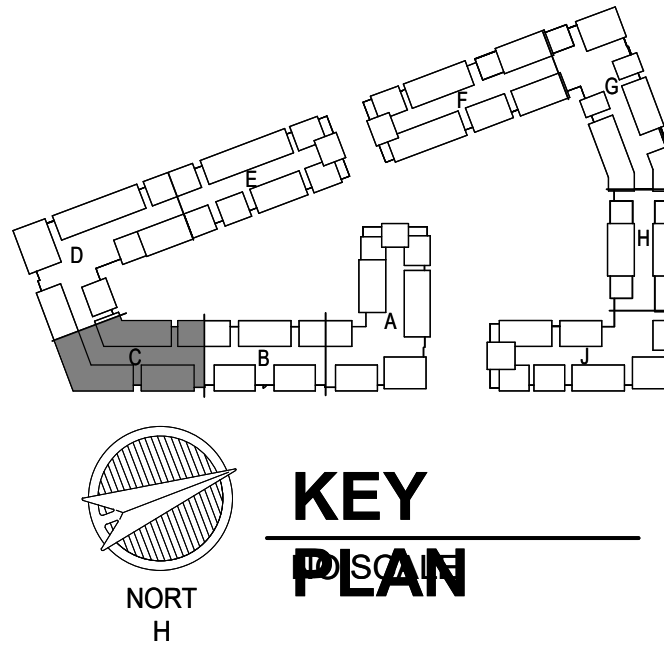
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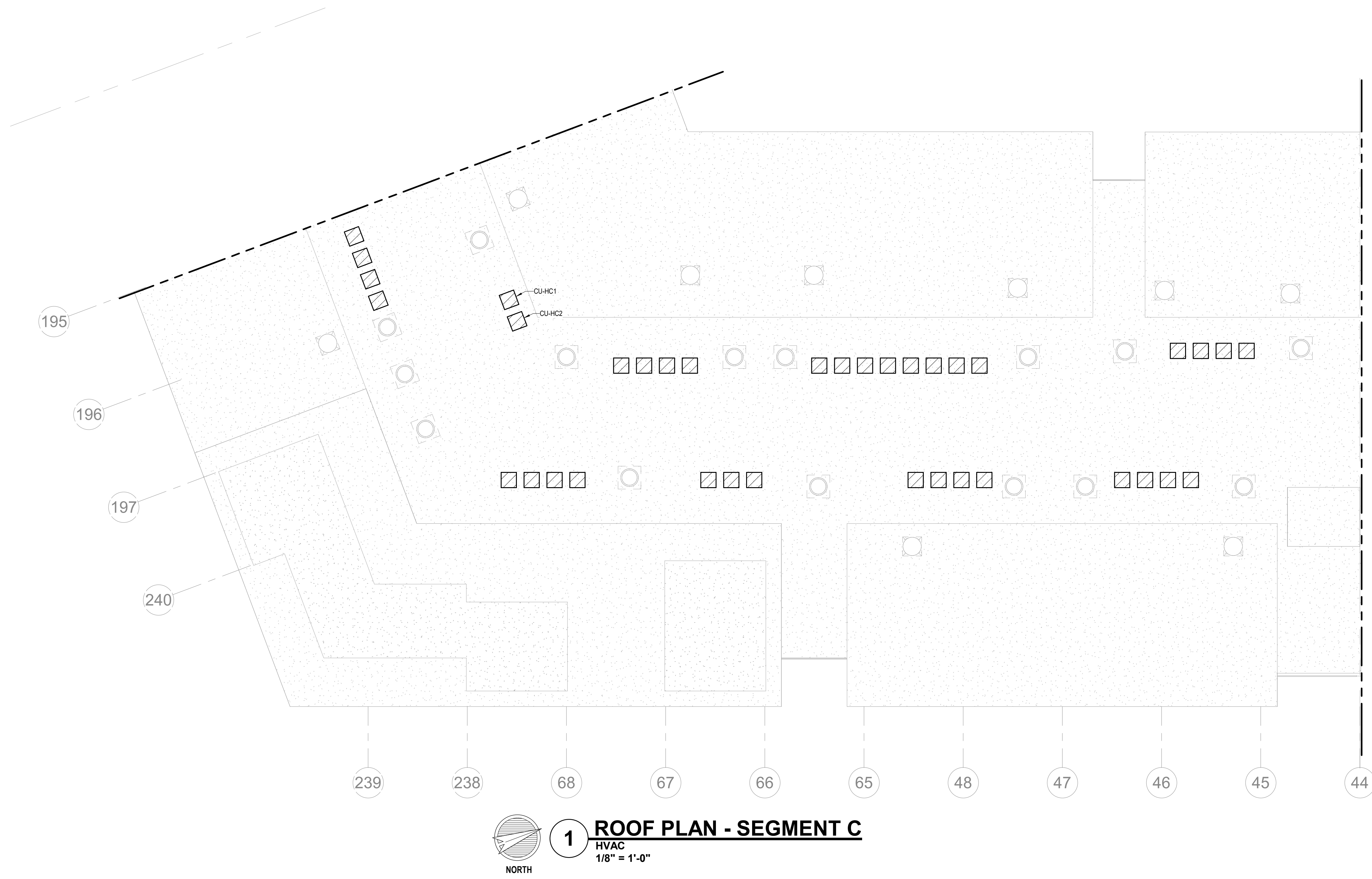
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CITY COMMENTS

SHEET NAME
SEGMENT C - 4TH FLOOR - HVAC

SHEET NO.

M1.12



1 ROOF PLAN - SEGMENT C
HVAC
1/8" = 1'-0"

- NOTES:**
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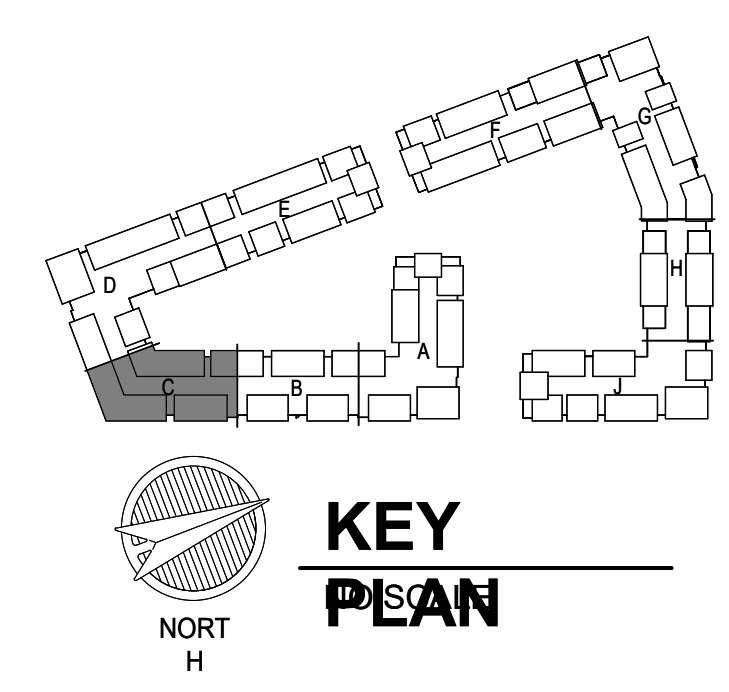
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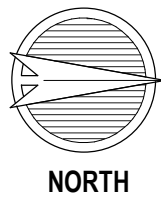
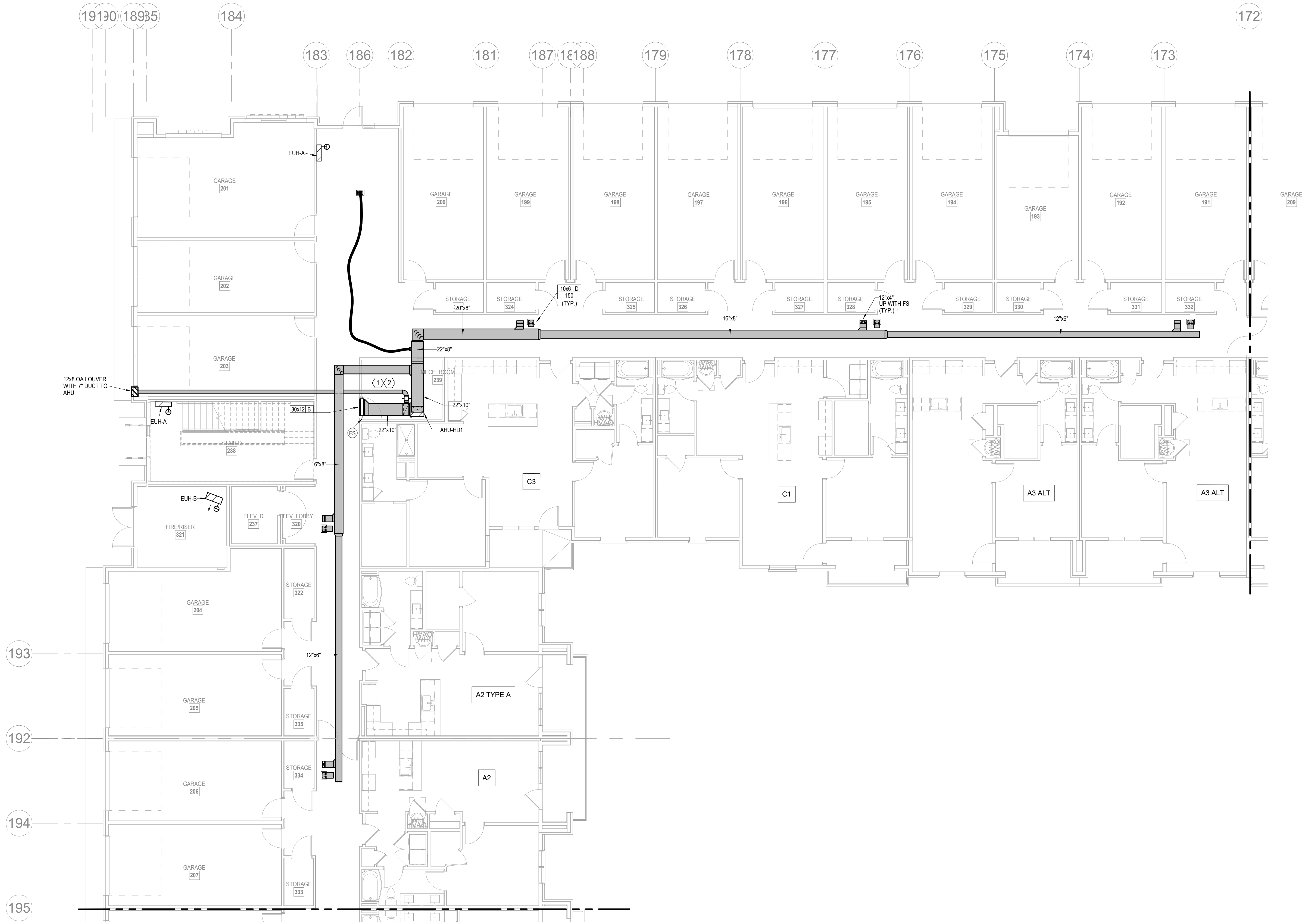
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JOB NO. **705921** DATE **03.15.2023**
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4/11/2023
SHEET NAME **CITY COMMENTS**
SEGMENT C - ROOF PLAN - HVAC
SHEET NO. **M1.13**



1 1ST FLOOR - SEGMENT D
HVAC
1/8" = 1'-0"

- NOTES:**
- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
 - ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
 - SEE THE ARCHITECTURAL LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
 - MAINTAIN 3 FEET CLEARANCE FROM EXHAUST DUCTS TO BUILDING OPENINGS AND 10 FEET TO AIR INTAKES.
 - ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
 - FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 15 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.

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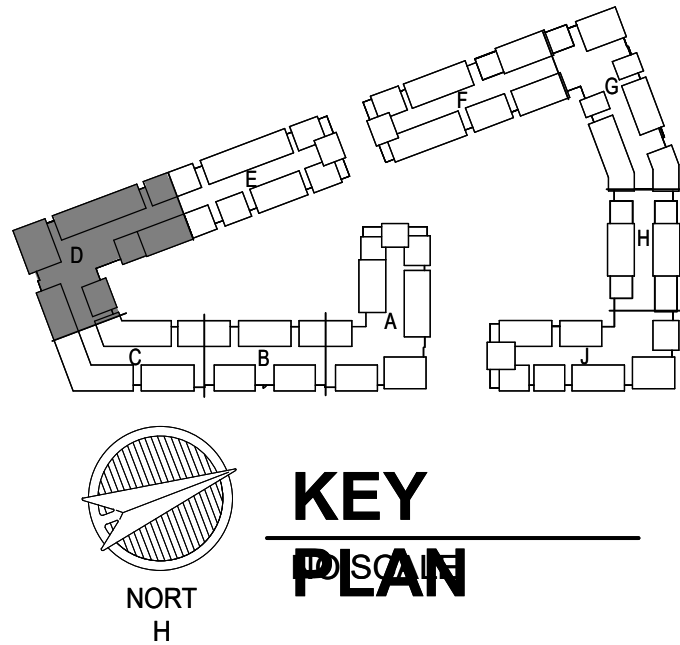
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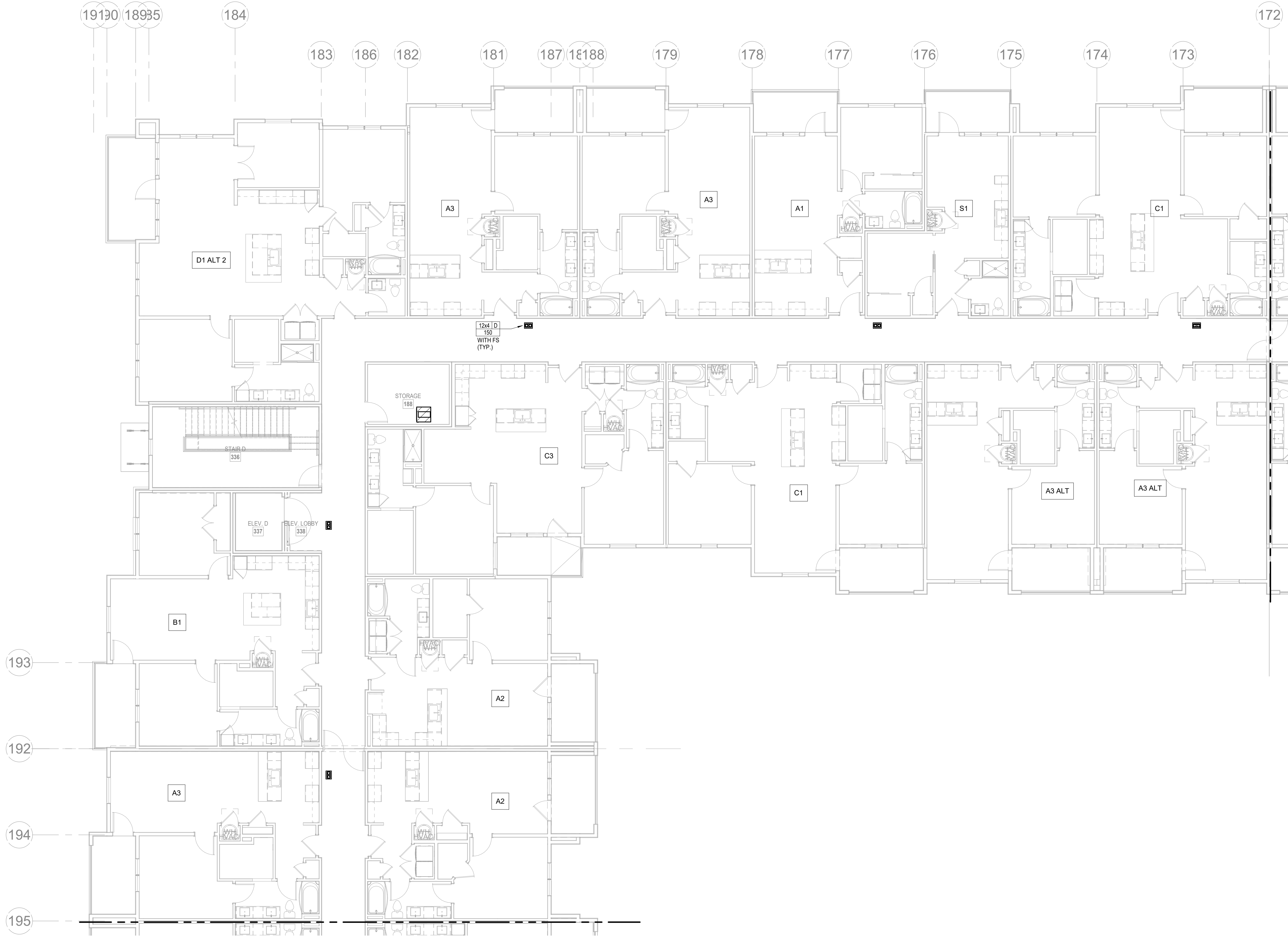
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CITY COMMENTS

SHEET NAME
SEGMENT D - 1ST FLOOR - HVAC

SHEET NO.

M1.14



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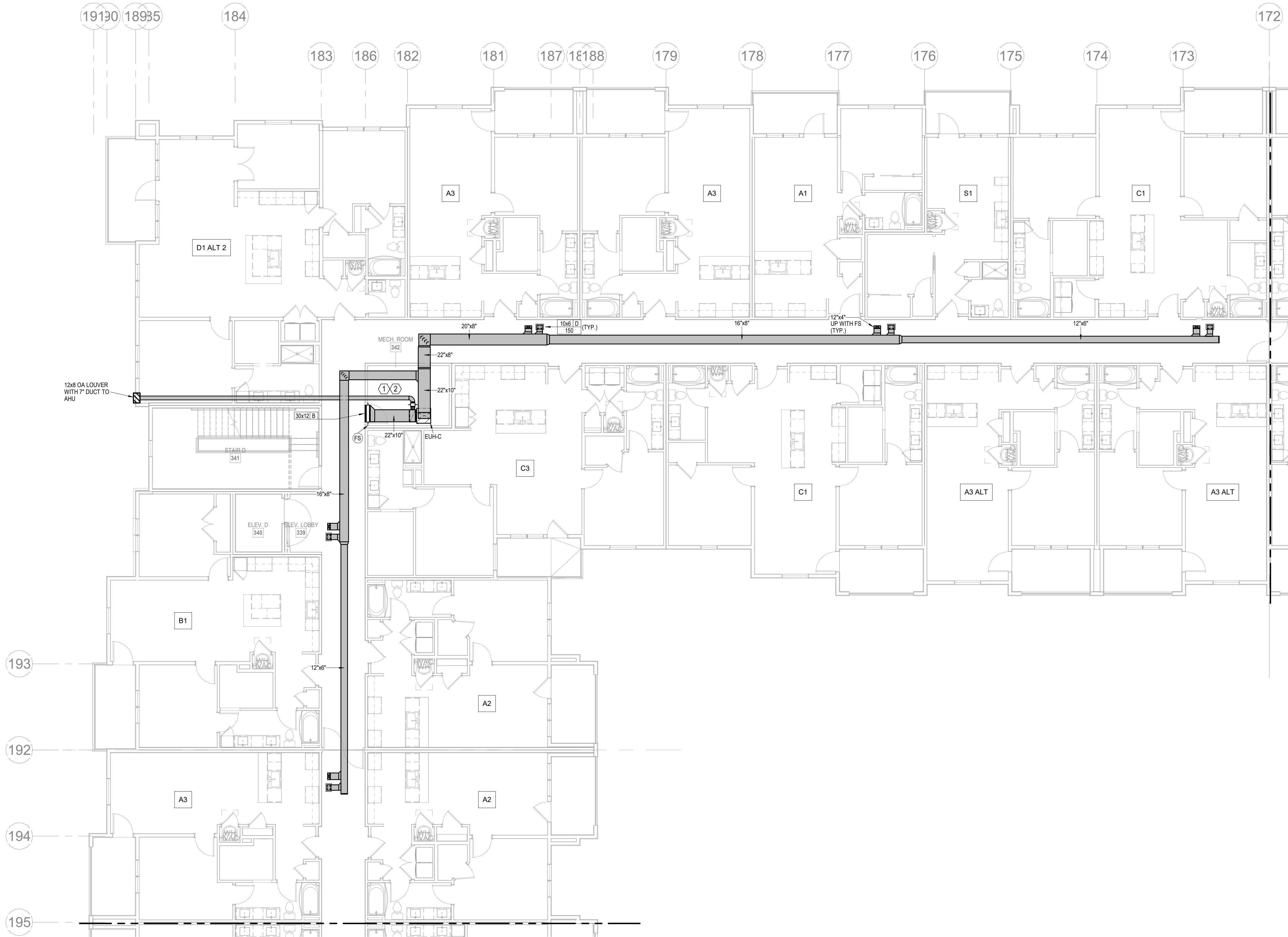
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SHEET NAME
CITY COMMENTS

SEGMENT D - 2ND FLOOR - HVAC

SHEET NO.

M1.15



1 3RD FLOOR - SEGMENT D
HVAC
1/8" = 1'-0"

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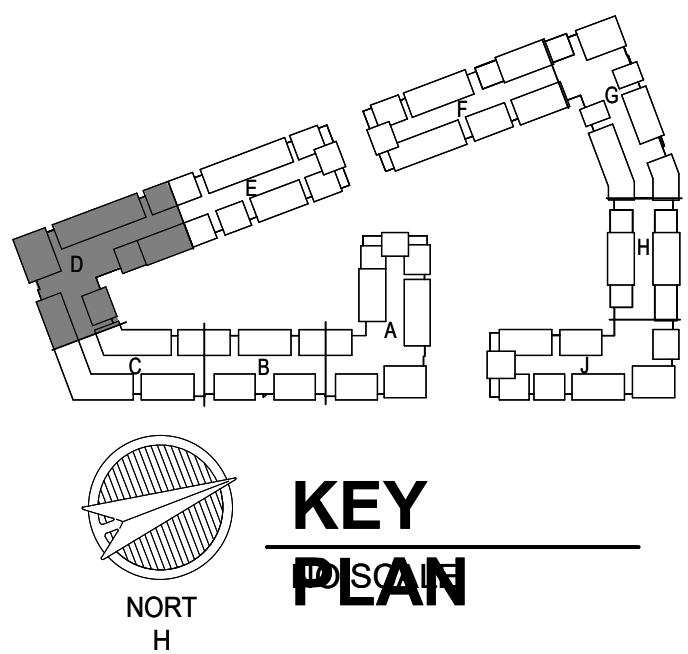
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KEY PLAN

JOB NO.
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DATE
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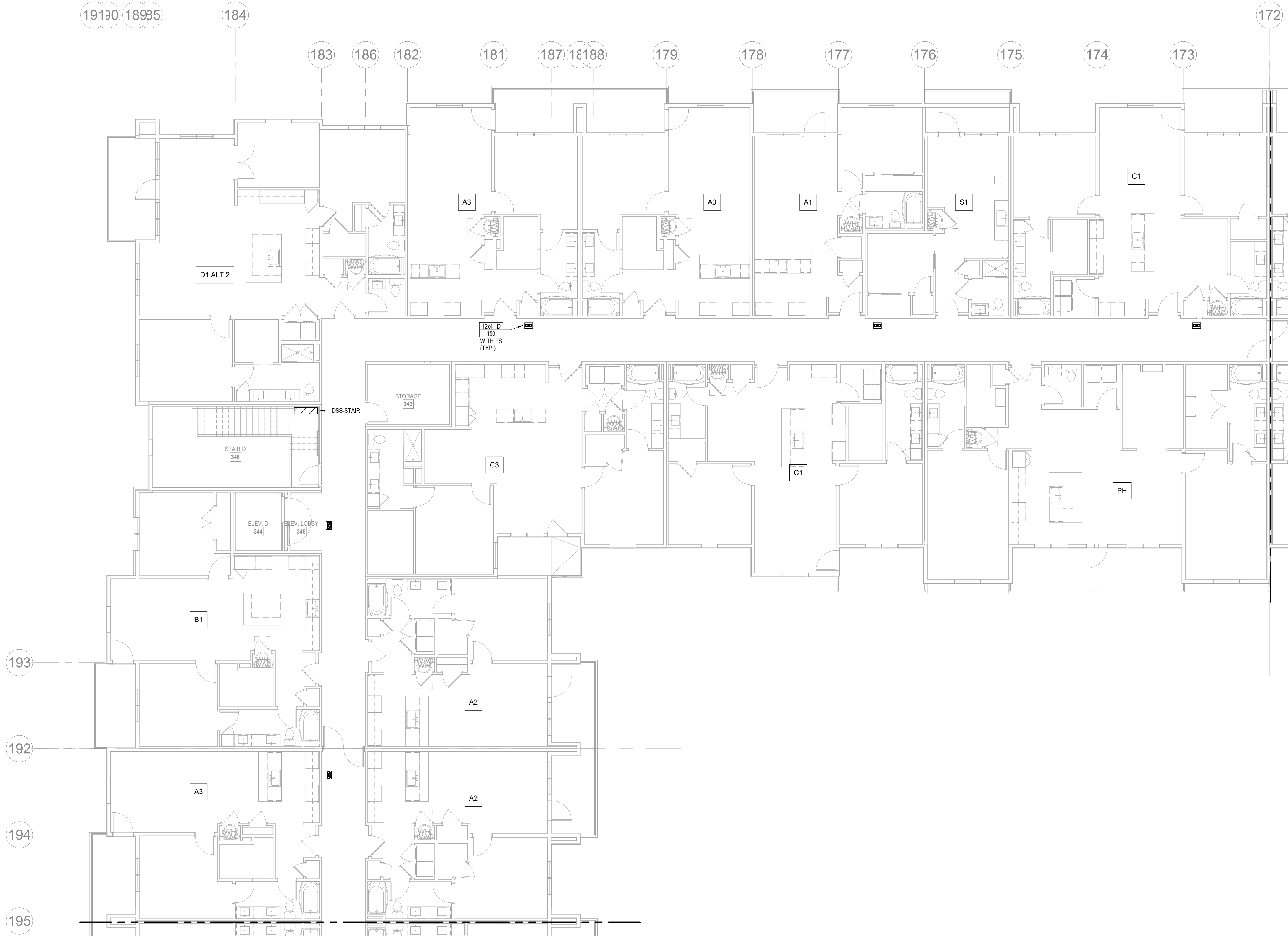
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CITY COMMENTS

SHEET NAME
SEGMENT D - 3RD FLOOR - HVAC

SHEET NO.
M1.16



1 4TH FLOOR - SEGMENT D
HVAC
1/8" = 1'-0"

- NOTES:**
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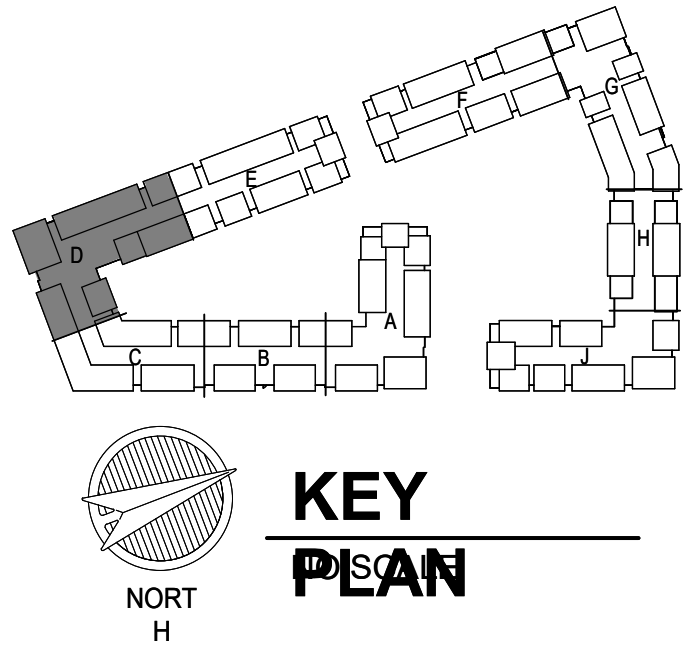
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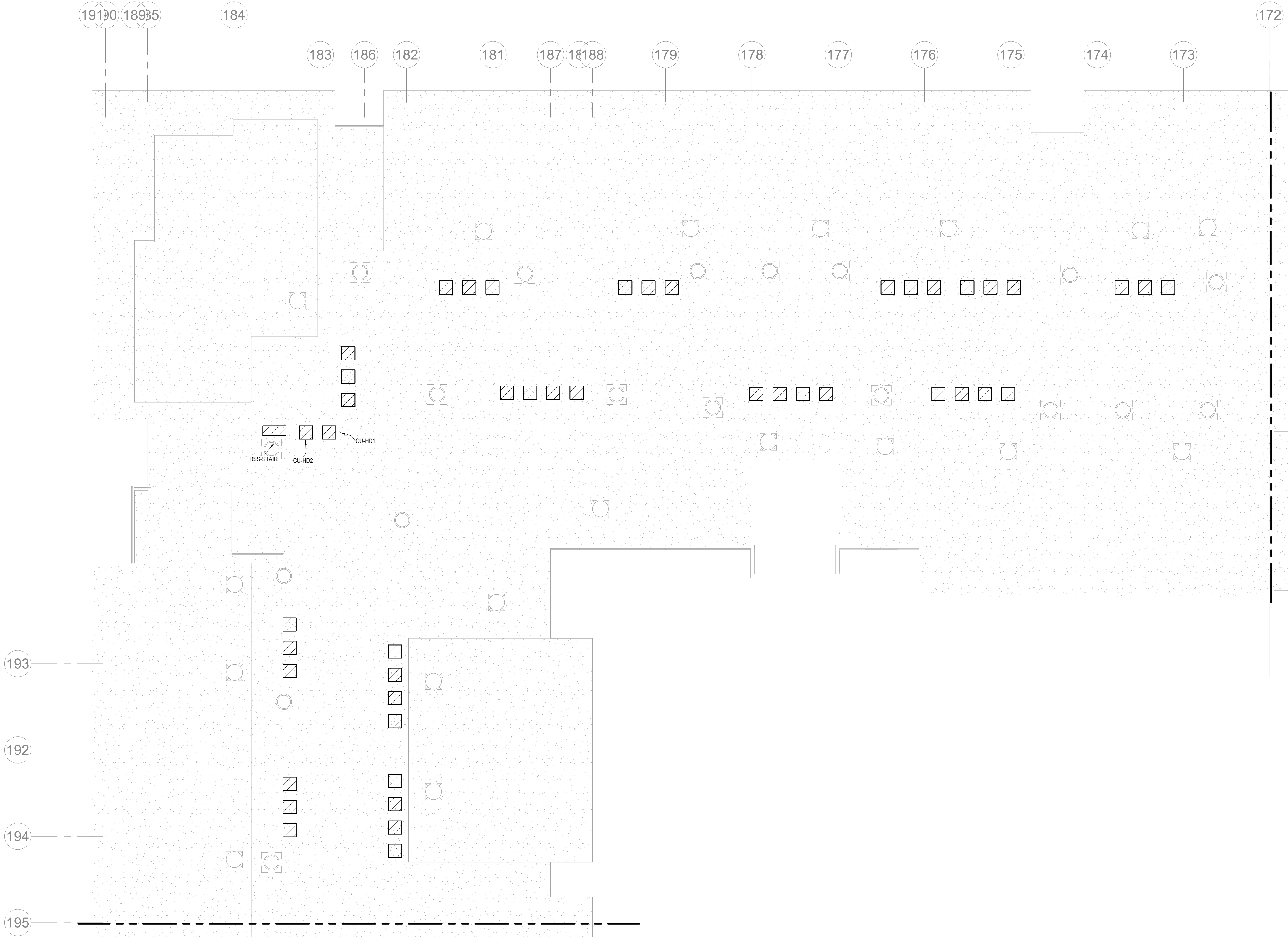
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SHEET NAME
CITY COMMENTS

SEGMENT D - 4TH FLOOR - HVAC

SHEET NO.

M1.17



1 ROOF PLAN - SEGMENT D
HVAC
1/8" = 1'-0"

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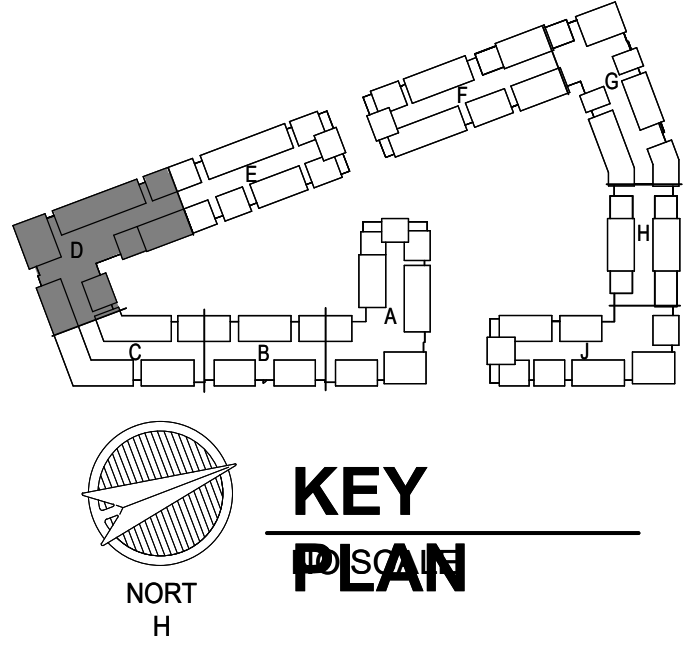
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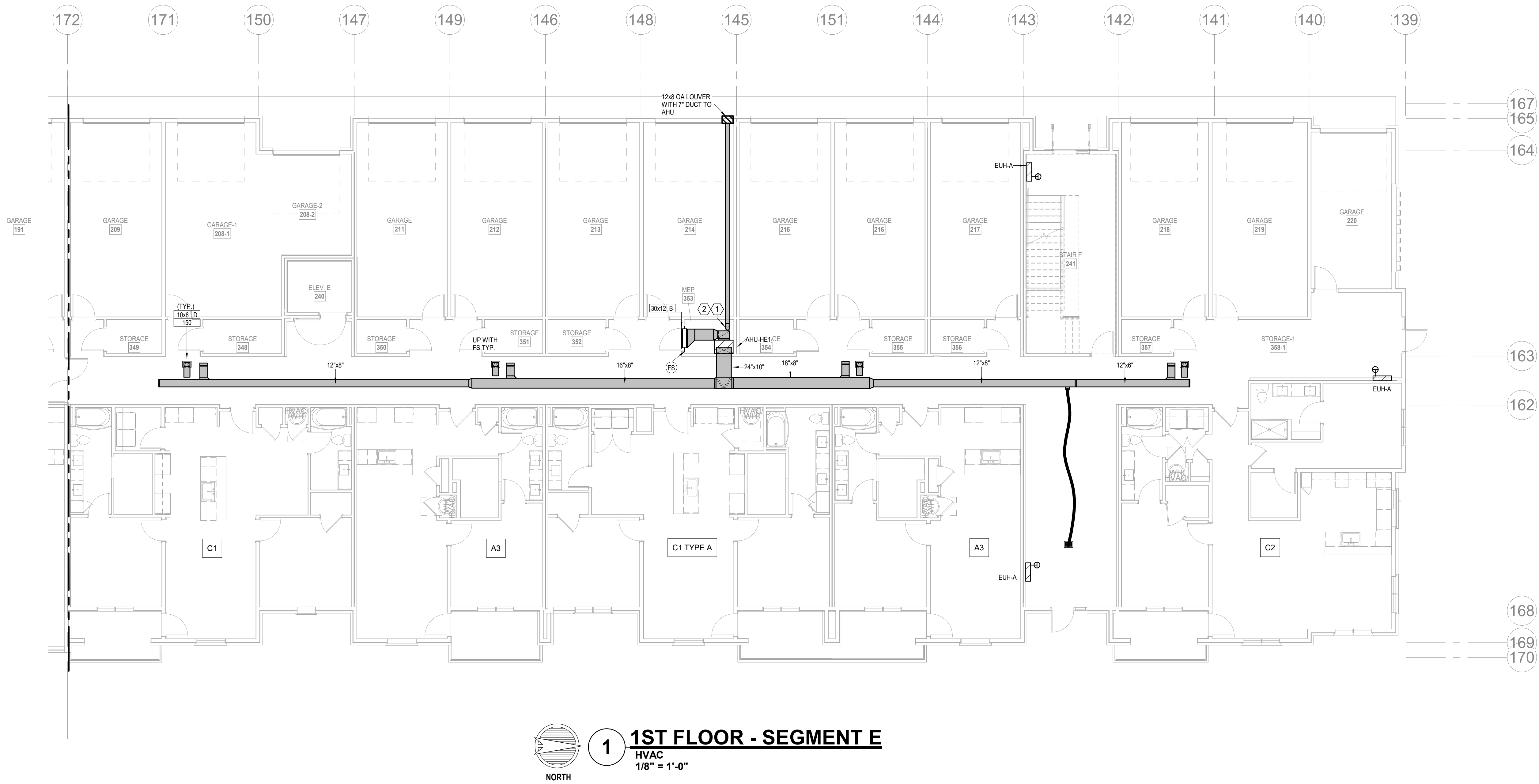
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SHEET NAME
CITY COMMENTS

SEGMENT D - ROOF PLAN - HVAC

SHEET NO.

M1.18



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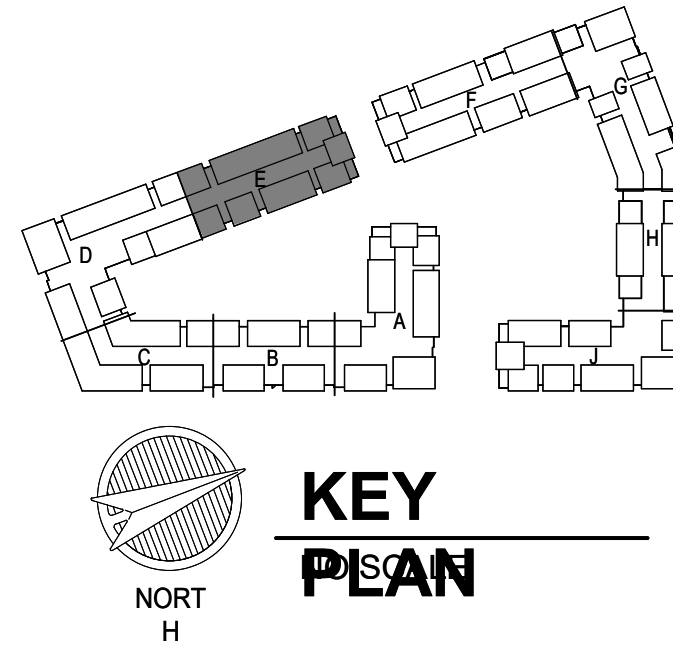
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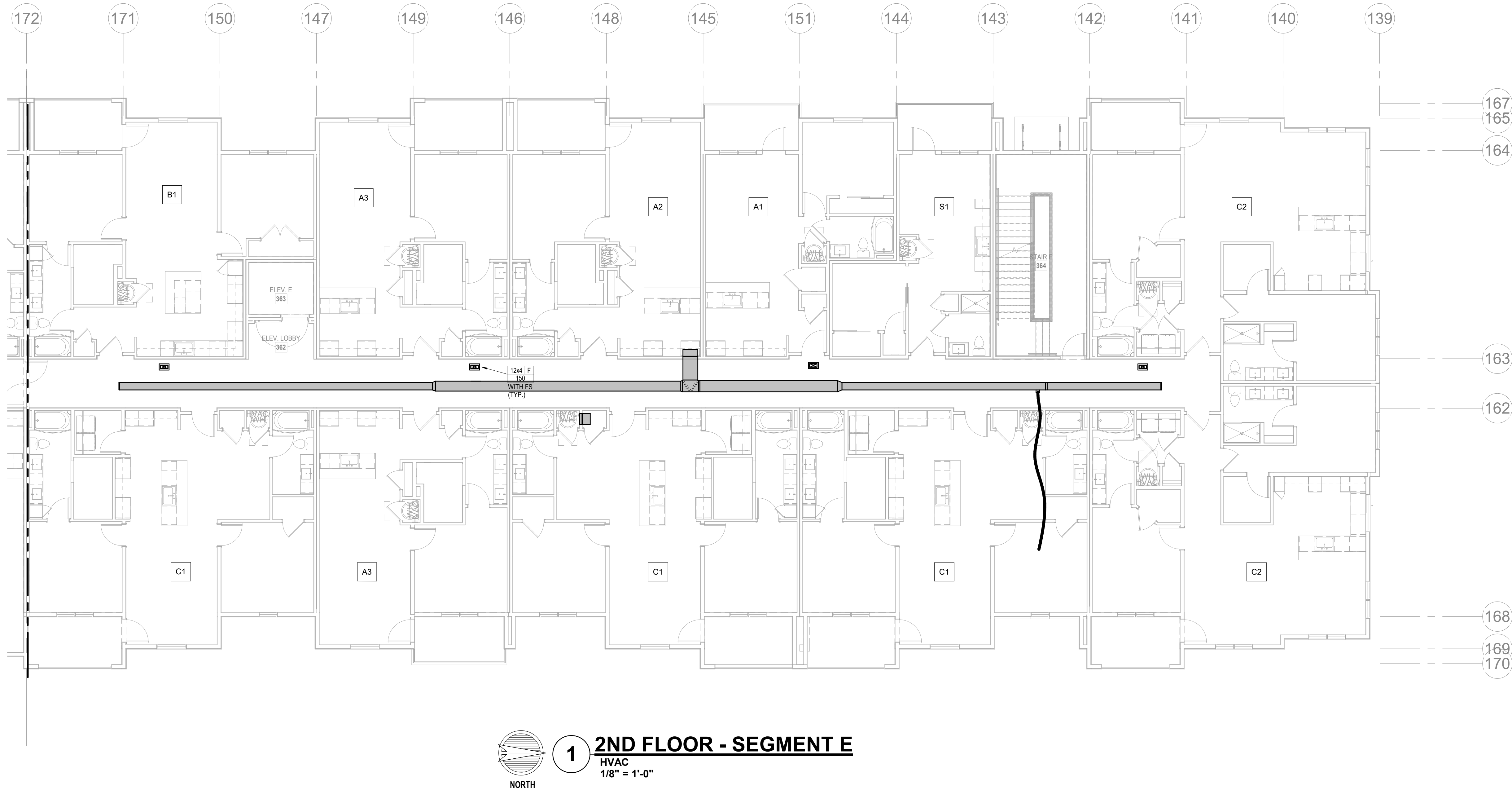
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SHEET NAME
CITY COMMENTS

SEGMENT E - 1ST FLOOR - HVAC

SHEET NO.

M1.19



1 2ND FLOOR - SEGMENT E
HVAC
1/8" = 1'-0"

- NOTES:**
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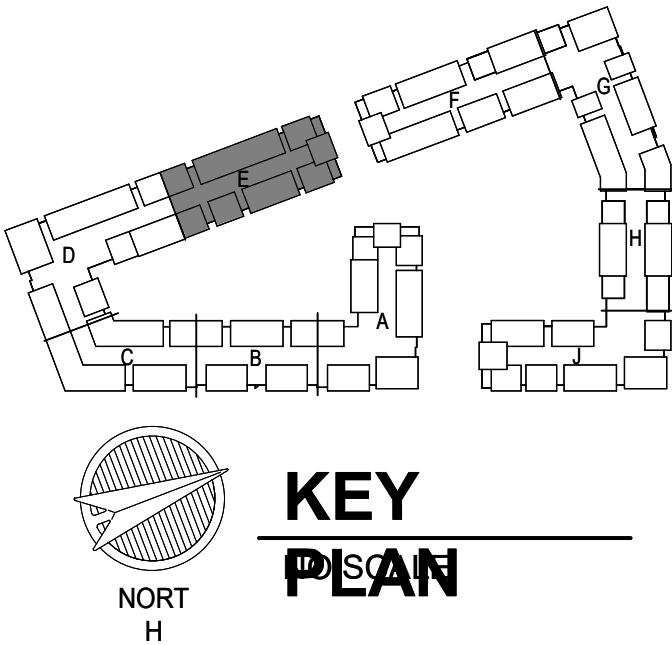
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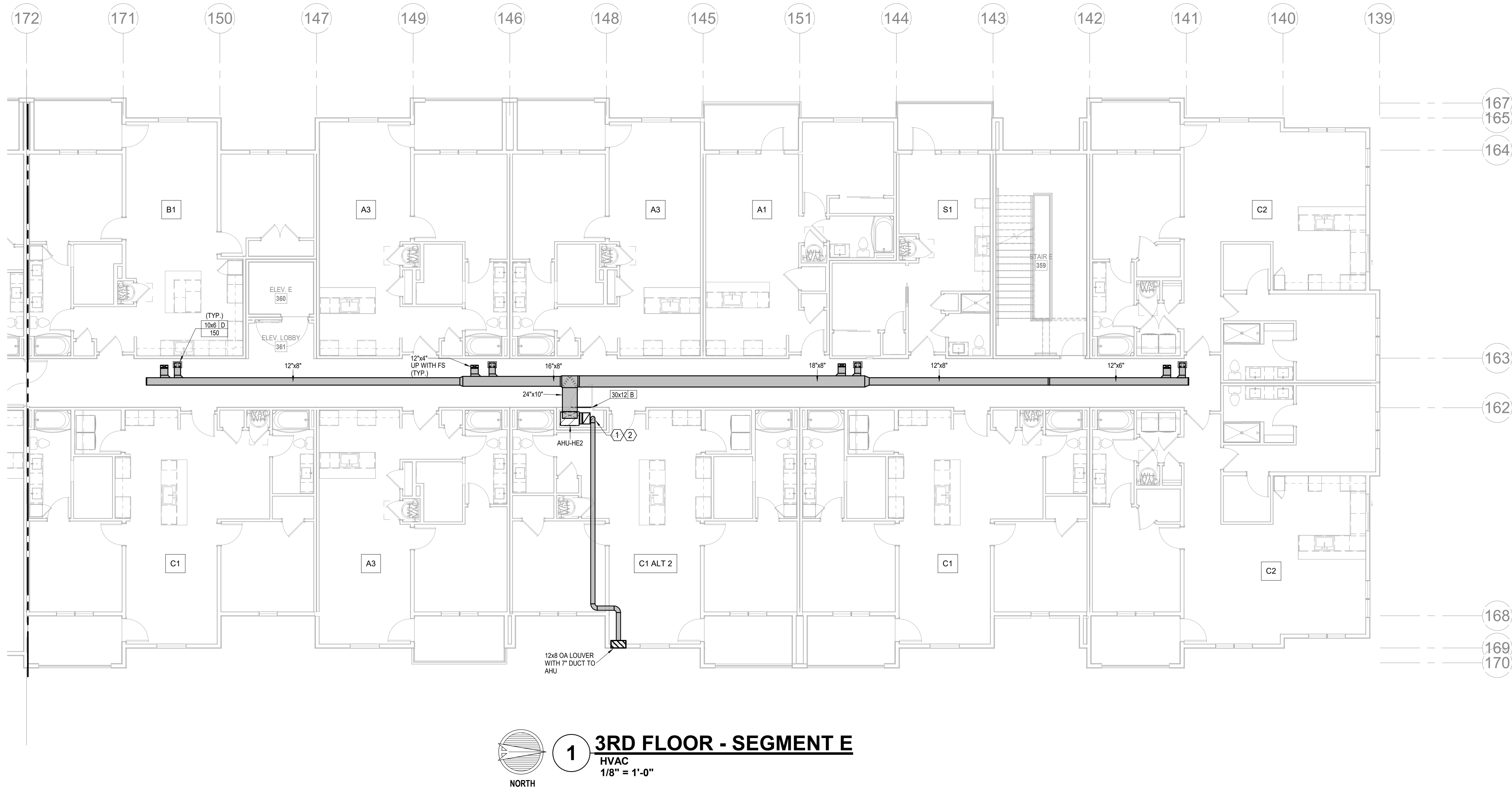


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SHEET NAME
SEGMENT E - 2ND FLOOR - HVAC
SHEET NO.

M1.20



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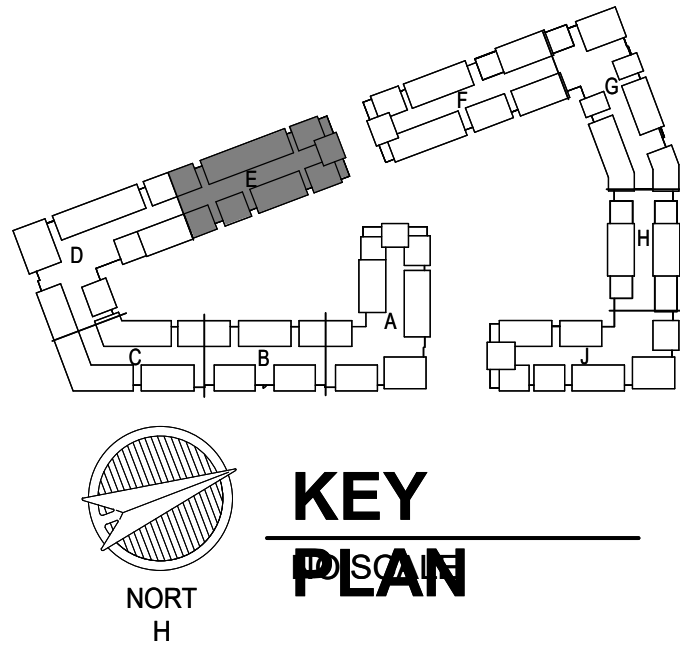
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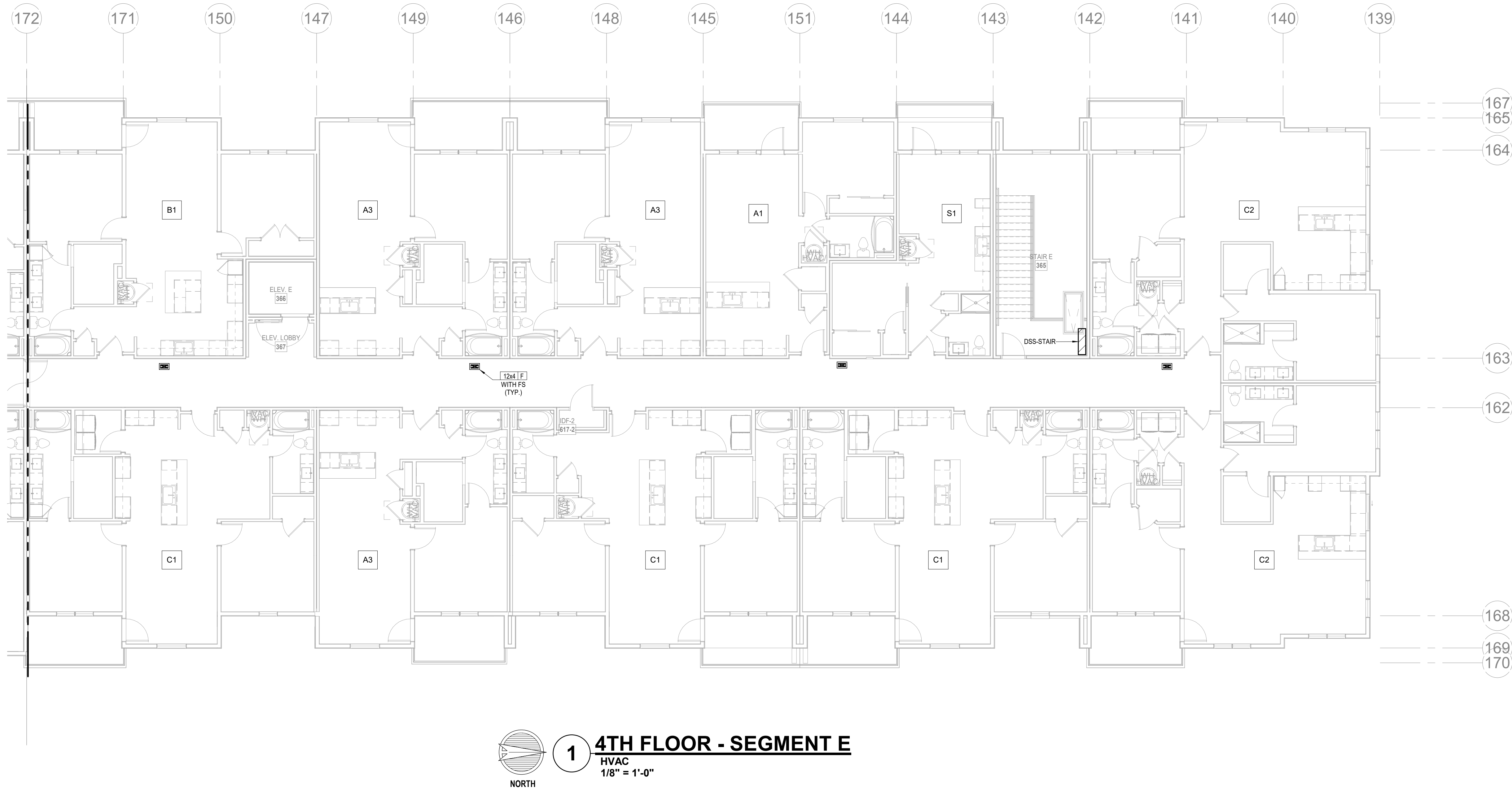
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CITY COMMENTS
SEGMENT E - 3RD FLOOR - HVAC
SHEET NO.

DATE 03.15.2023

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DATE 03.15.2023

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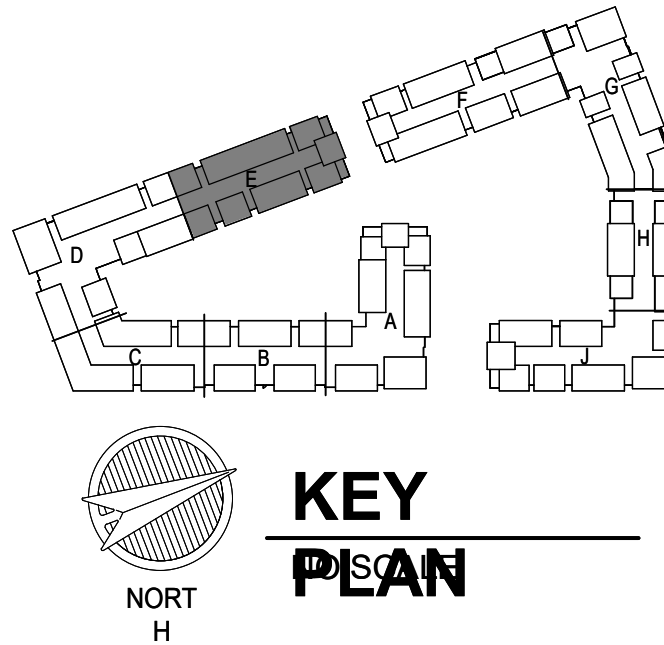
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SEGMENT E - 4TH FLOOR - HVAC
SHEET NO.

DATE 03.15.2023

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DATE 03.15.2023

DATE 03.15.2023

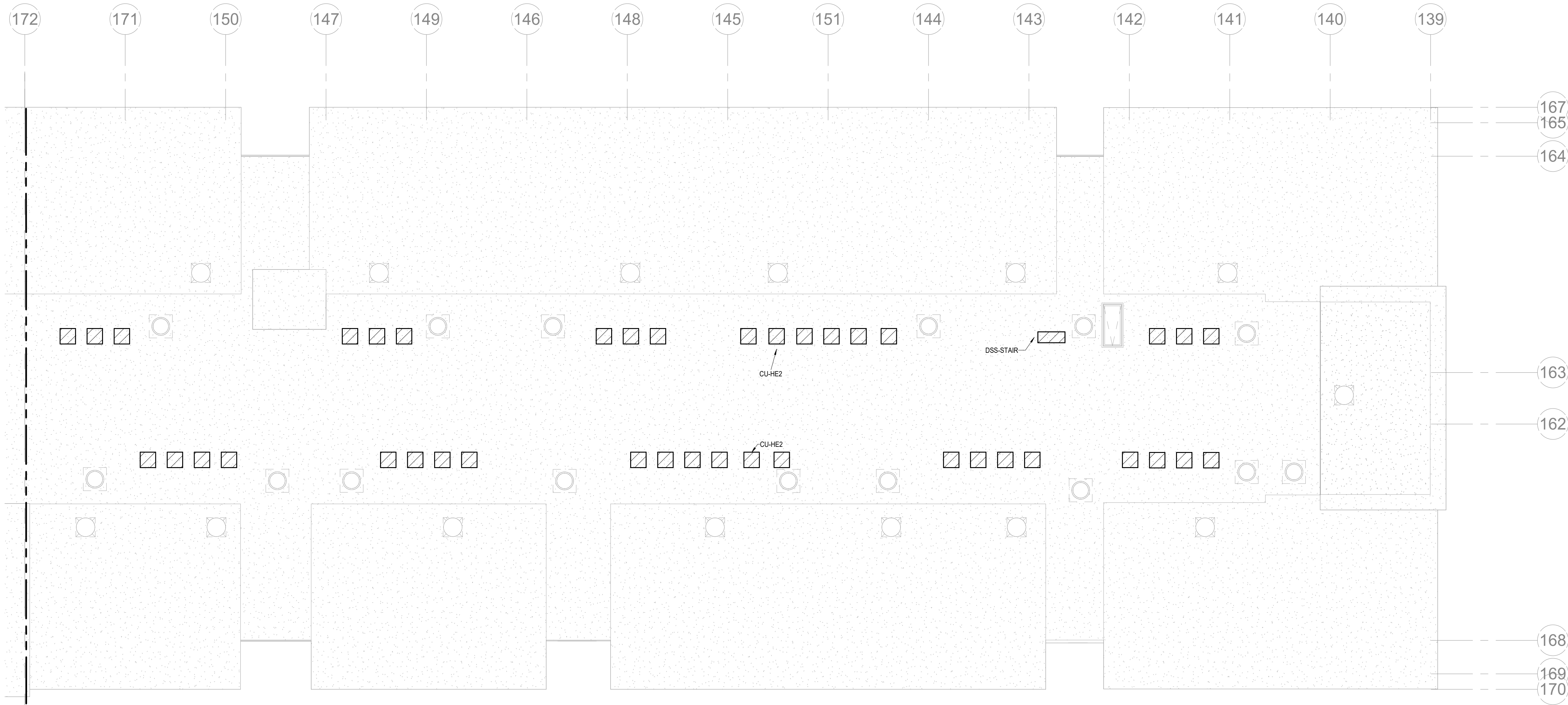
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1 ROOF PLAN - SEGMENT E
HVAC
1/8" = 1'-0"

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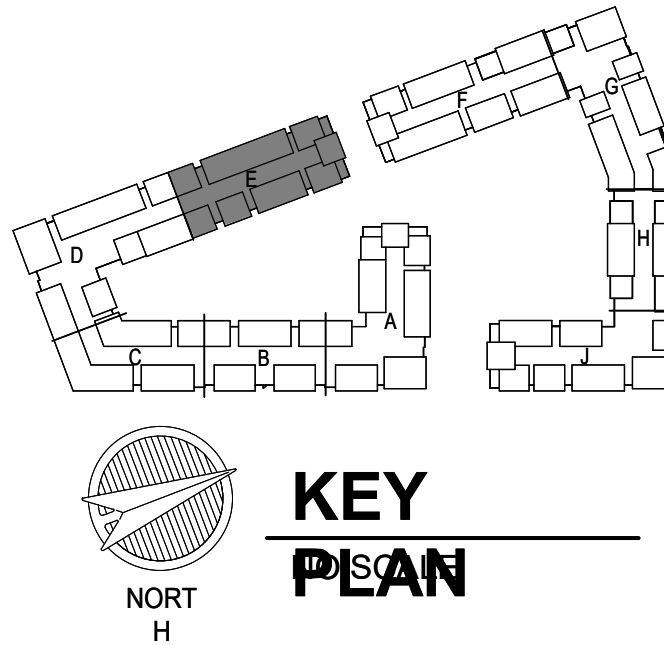
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SHEET NAME
CITY COMMENTS

SEGMENT E - ROOF PLAN - HVAC

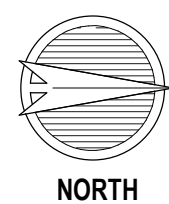
SHEET NO.

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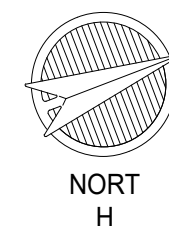
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1 1ST FLOOR - SEGMENT F
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KEY TO SCALE



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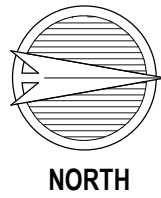
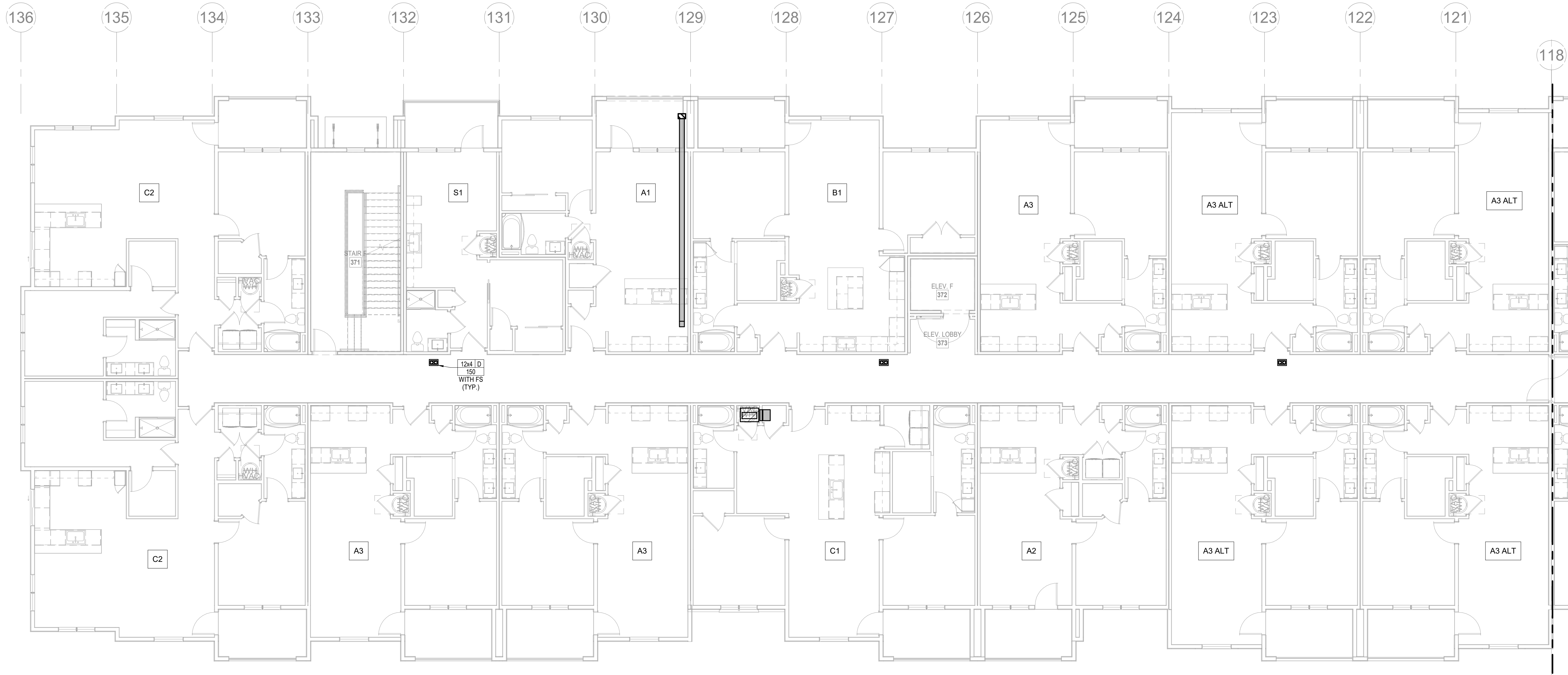
SHEET NAME
SEGMENT 5 - 1ST FLOOR

SEGMENT F - 1ST FLOOR - HVAC

SHEET NO.

M1.24

1411821



1 2ND FLOOR - SEGMENT F
HVAC
1/8" = 1'-0"

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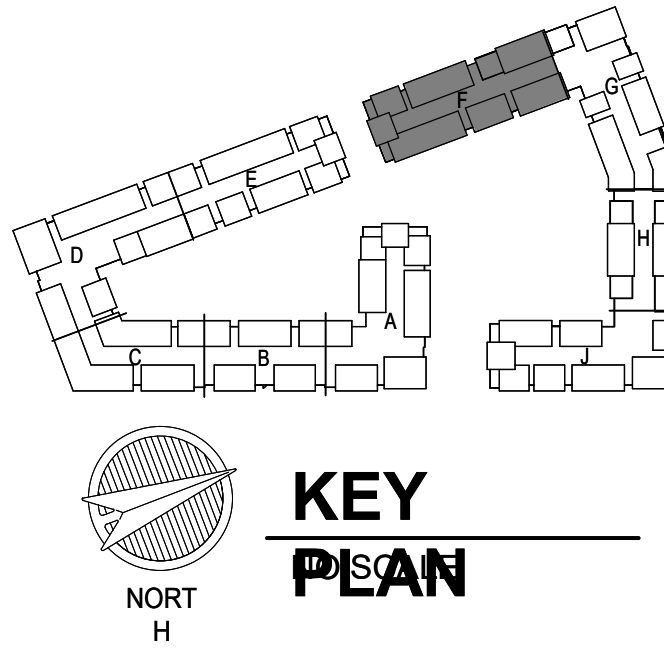
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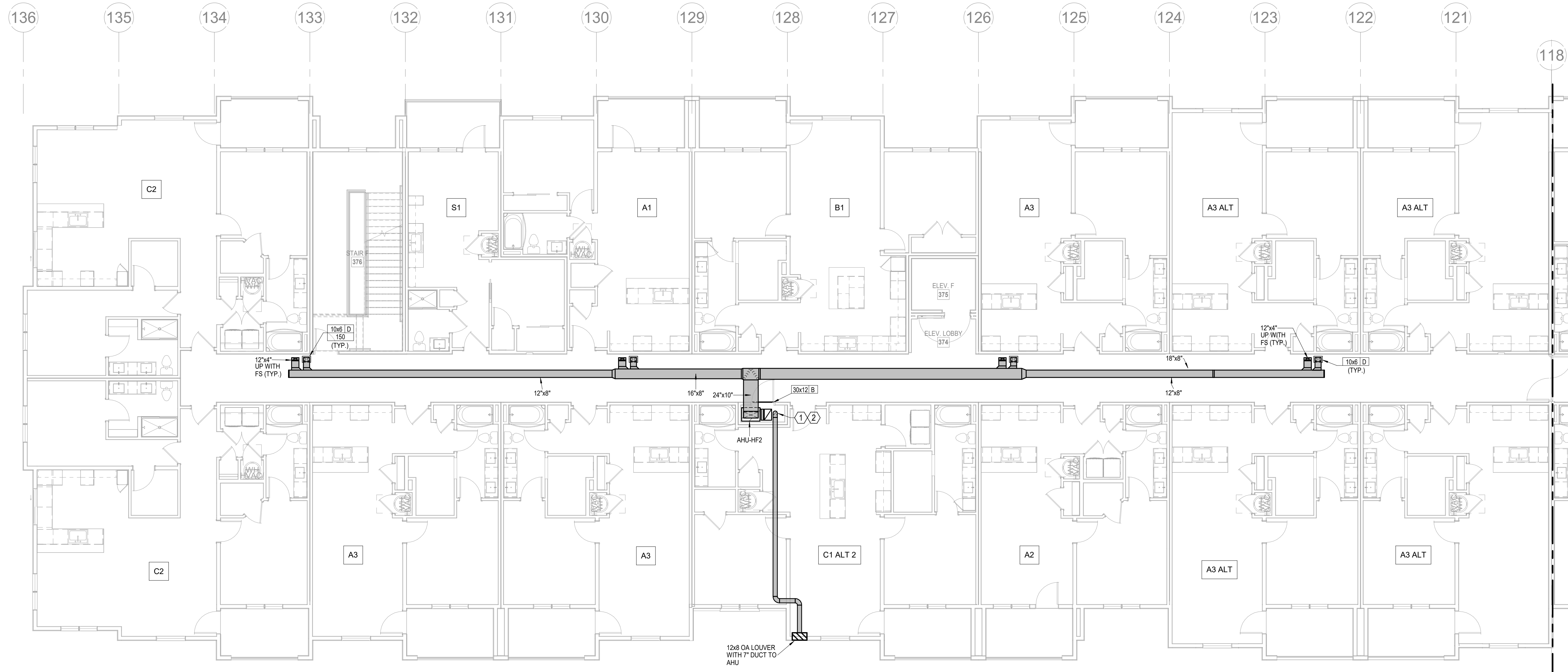
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Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO.
705921
DRAWN BY
LSA CAD
4/11/2023
CITY COMMENTS
SHEET NAME
SEGMENT F - 2ND FLOOR - HVAC
SHEET NO.

M1.25



 **1 3RD FLOOR - SEGMENT F**
HVAC
1/8" = 1'-0"

- NOTES:**
- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
 - ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
 - SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
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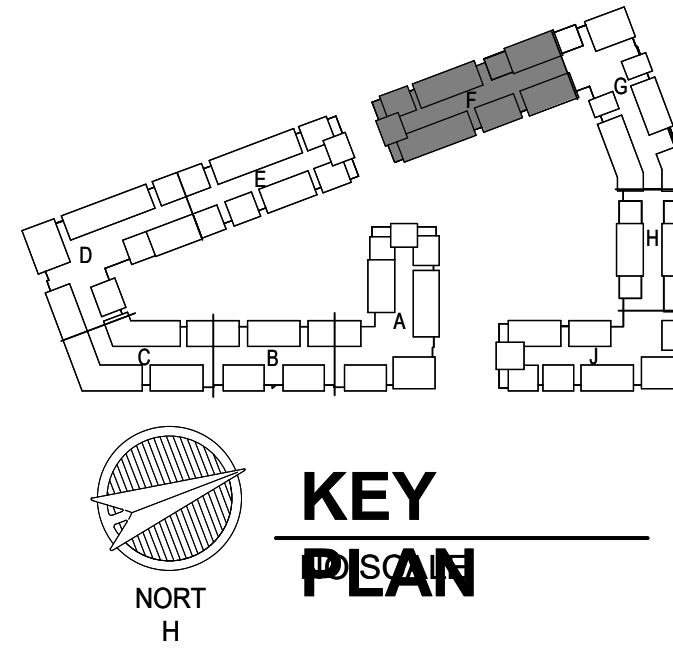
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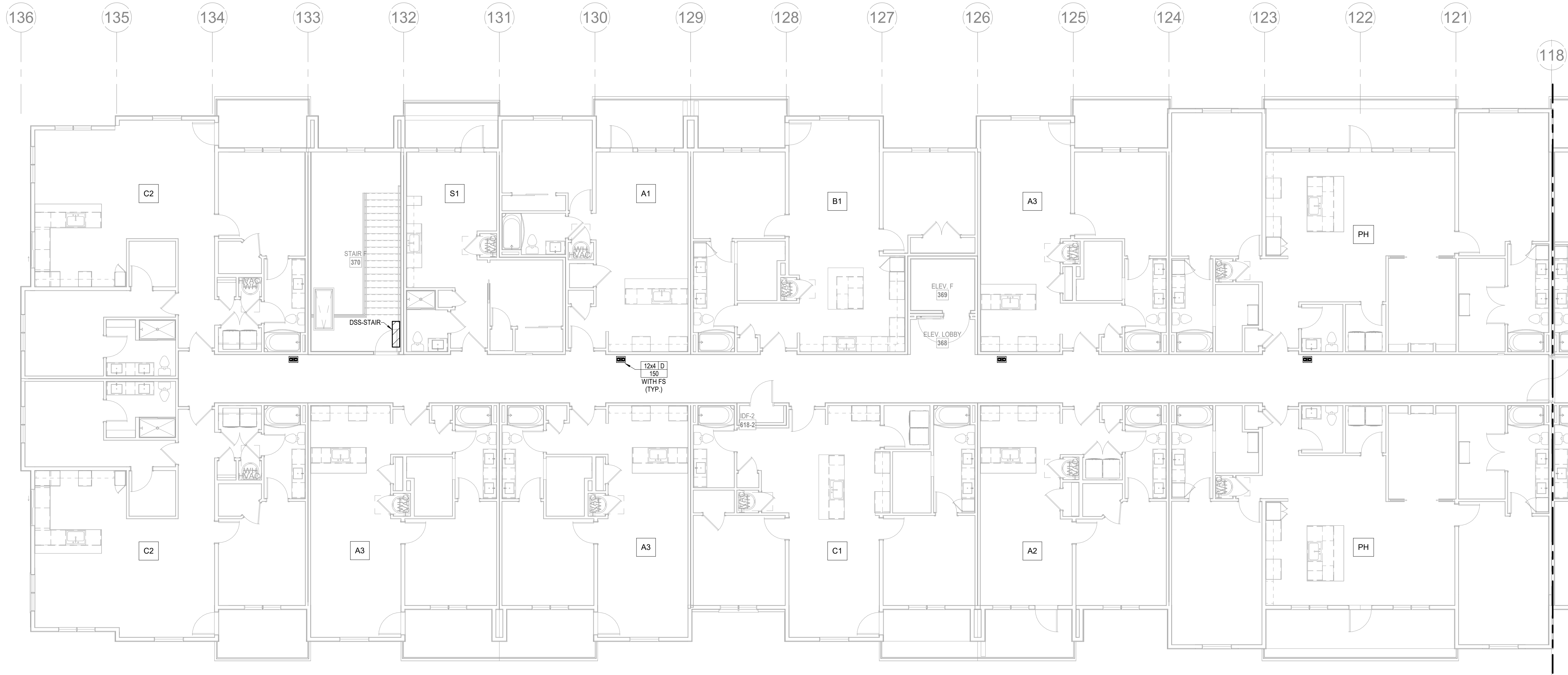


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4/11/2023
CITY COMMENTS
SHEET NAME
SEGMENT F - 3RD FLOOR - HVAC
SHEET NO.

DATE
03.15.2023

M1.26



1 4TH FLOOR - SEGMENT F
HVAC
1/8" = 1'-0"

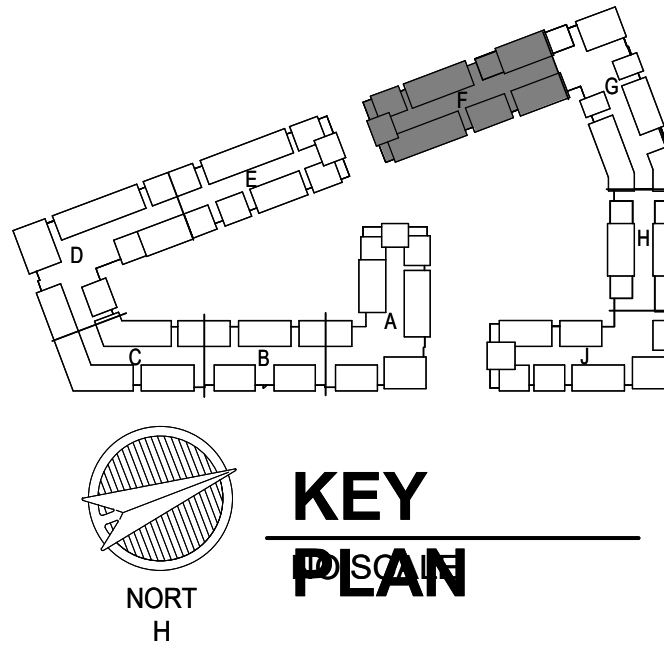
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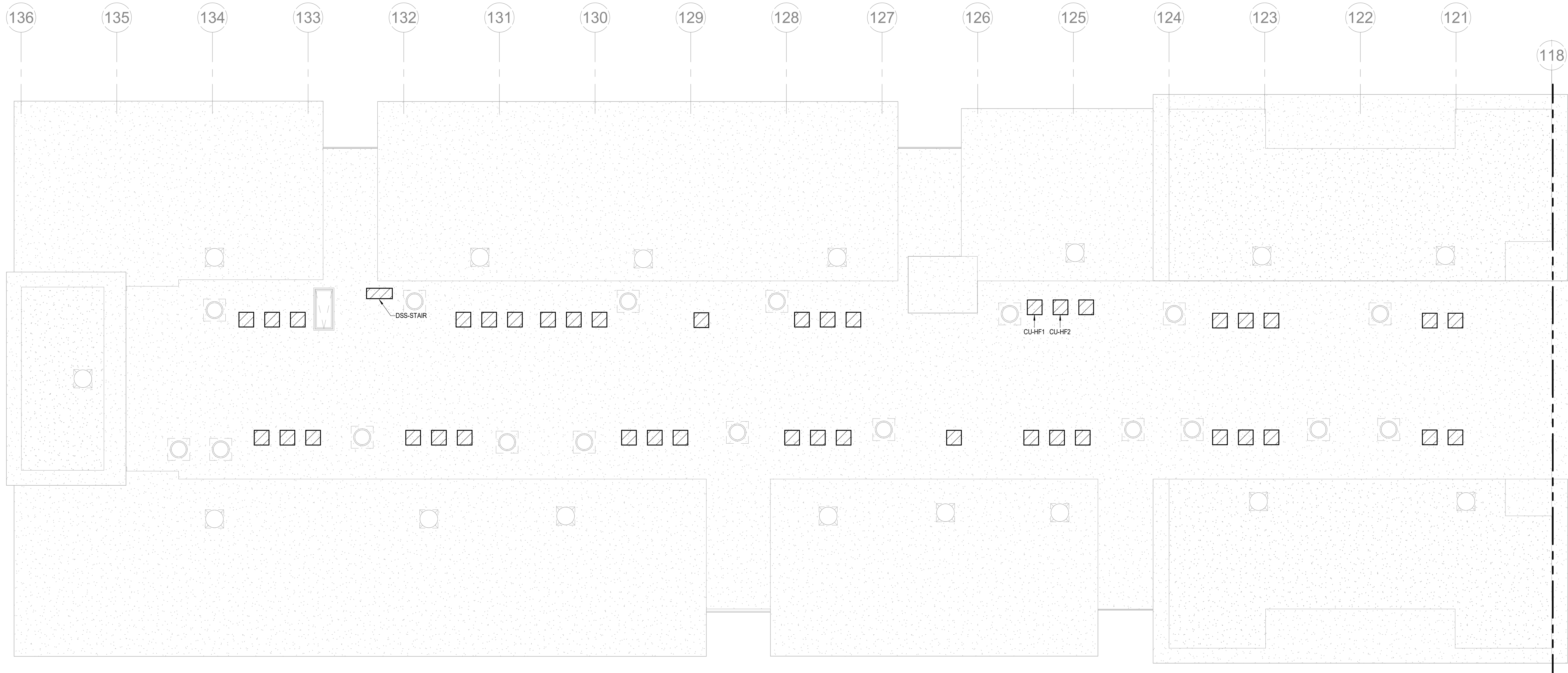
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CITY COMMENTS
SHEET NAME
SEGMENT F - 4TH FLOOR - HVAC
SHEET NO.

DATE
03.15.2023

M1.27



1 ROOF PLAN - SEGMENT F
HVAC
1/8" = 1'-0"

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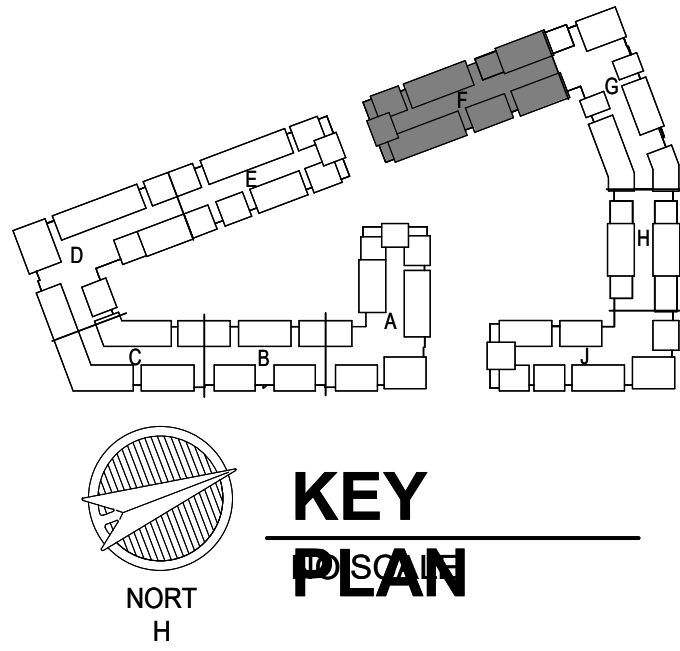
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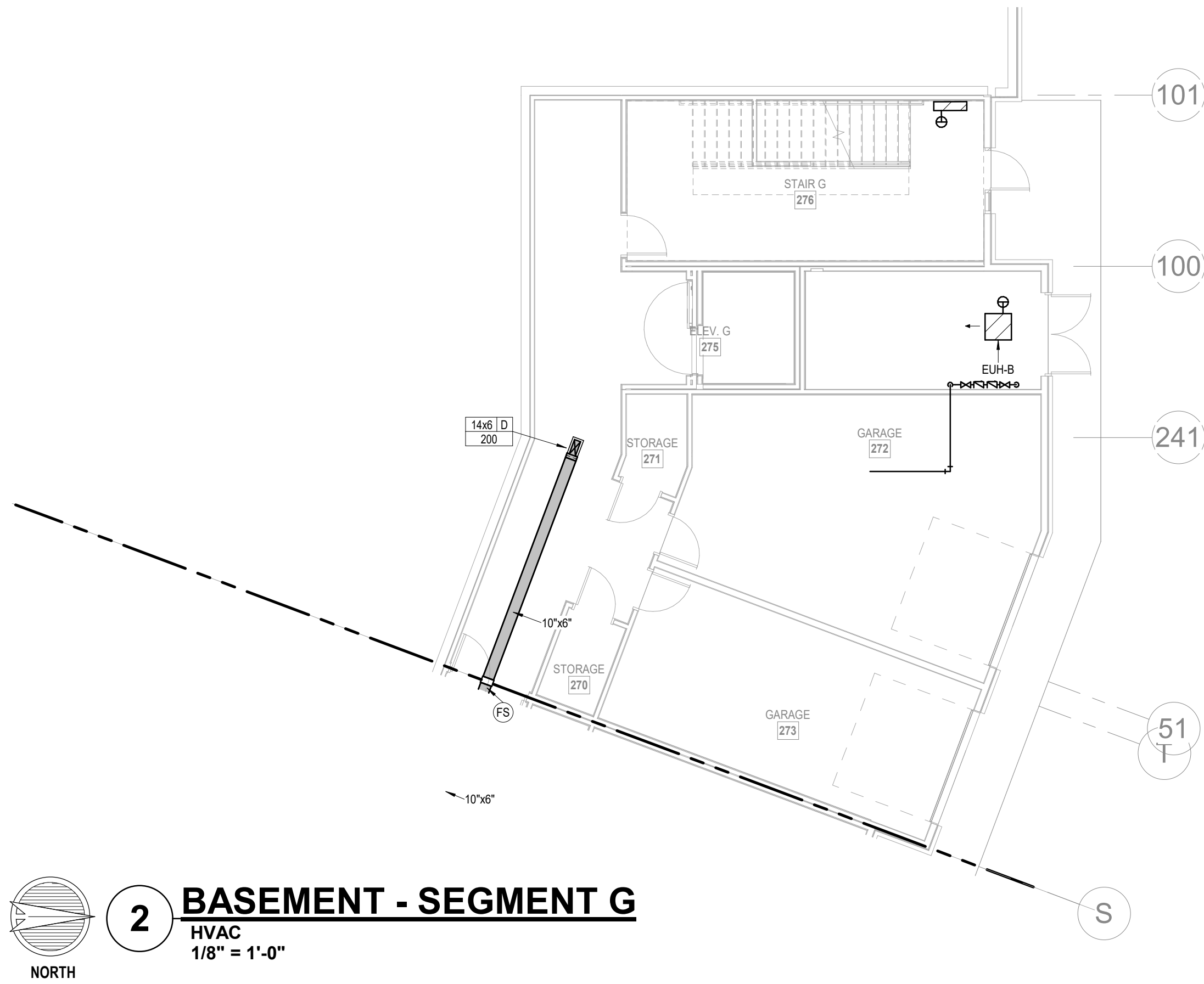
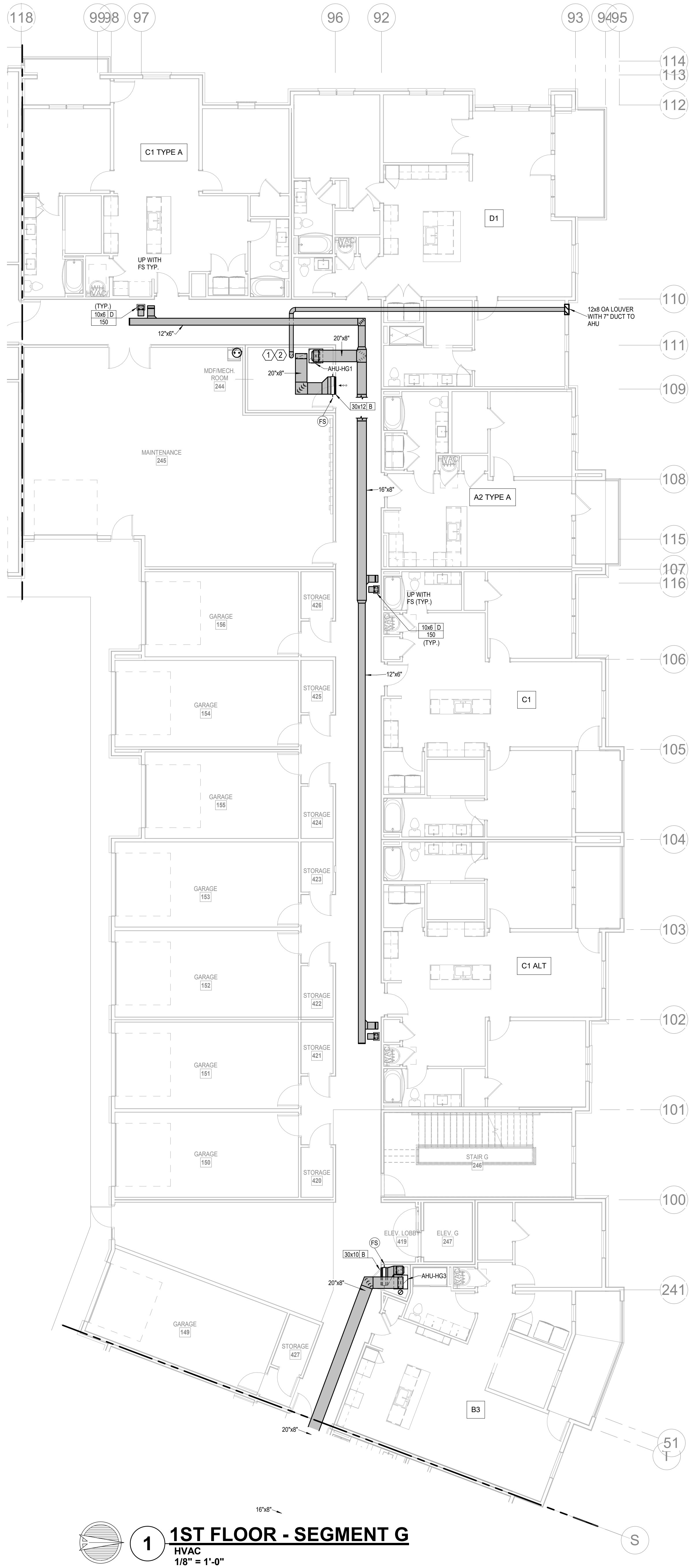
4/11/2023

SHEET NAME
CITY COMMENTS

SEGMENT F - ROOF PLAN - HVAC

SHEET NO.

M1.28



- NOTES:
- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
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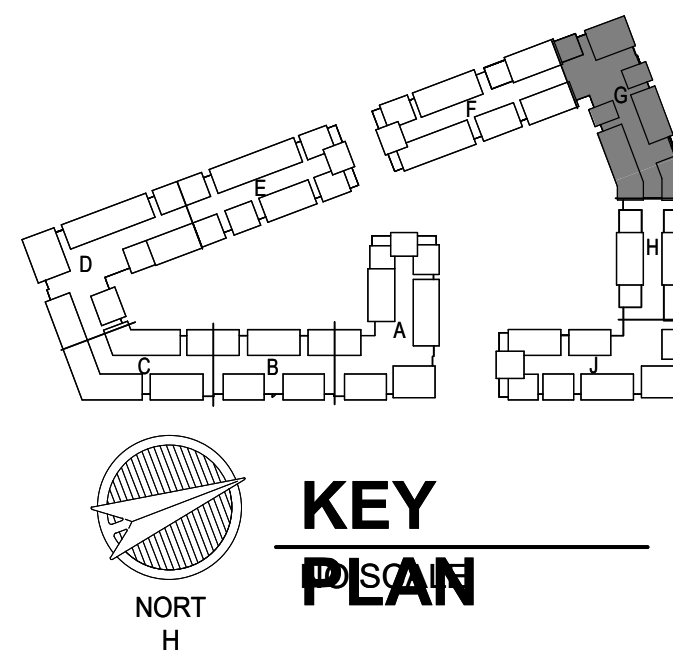
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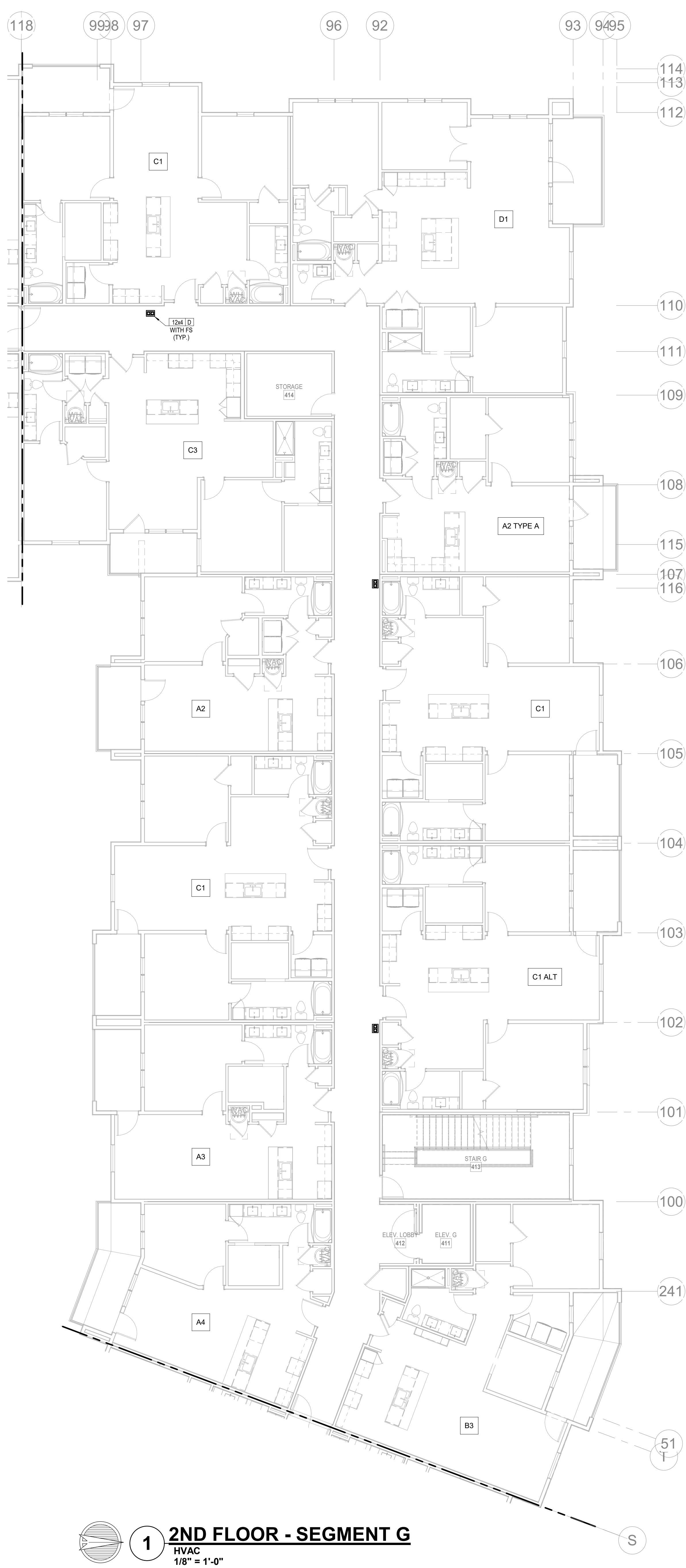
JOB NO. 705921
DRAWN BY LSA CAD
4/11/2023

DATE 03.15.2023
SHEET NAME
SEGMENT G - BASEMENT & 1ST FLOOR - HVAC
SHEET NO.

M1.29

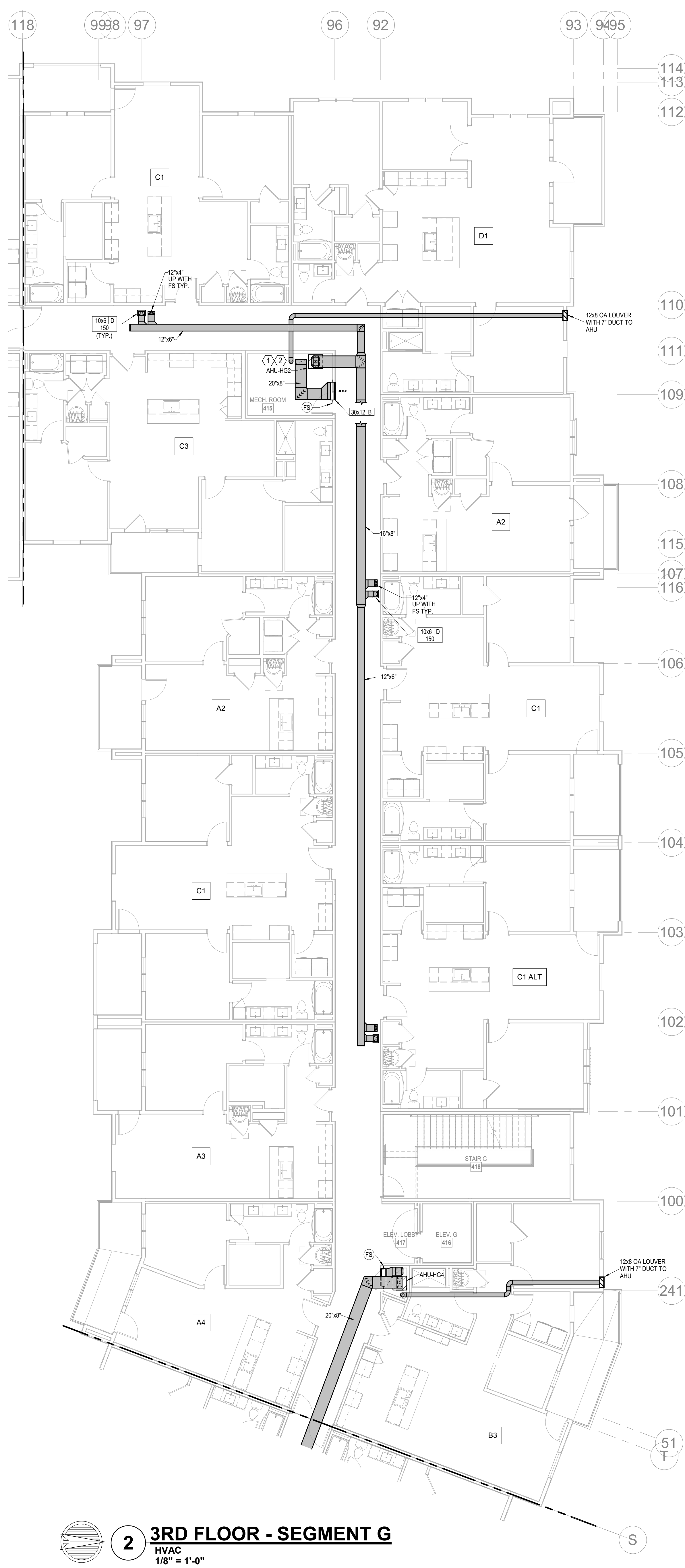
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1

2ND FLOOR - SEGMENT G
HVAC
1/8" = 1'-0"



2

3RD FLOOR - SEGMENT G
HVAC
1/8" = 1'-0"

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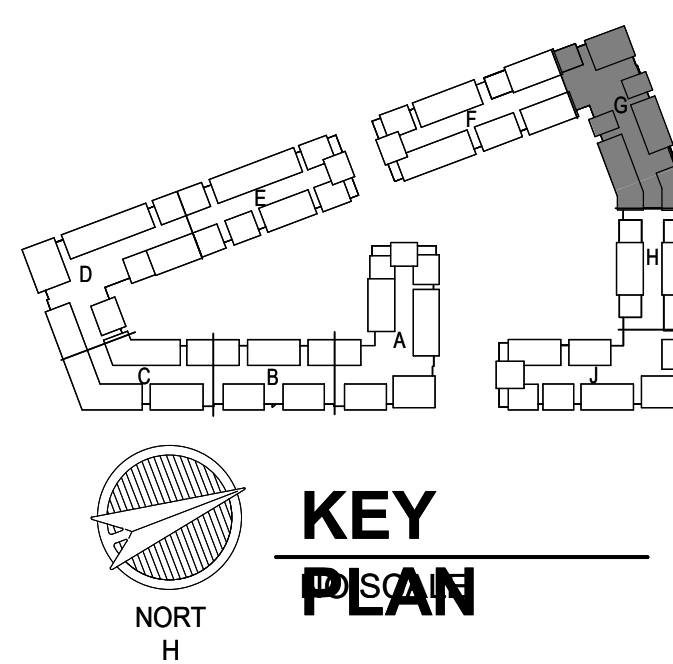
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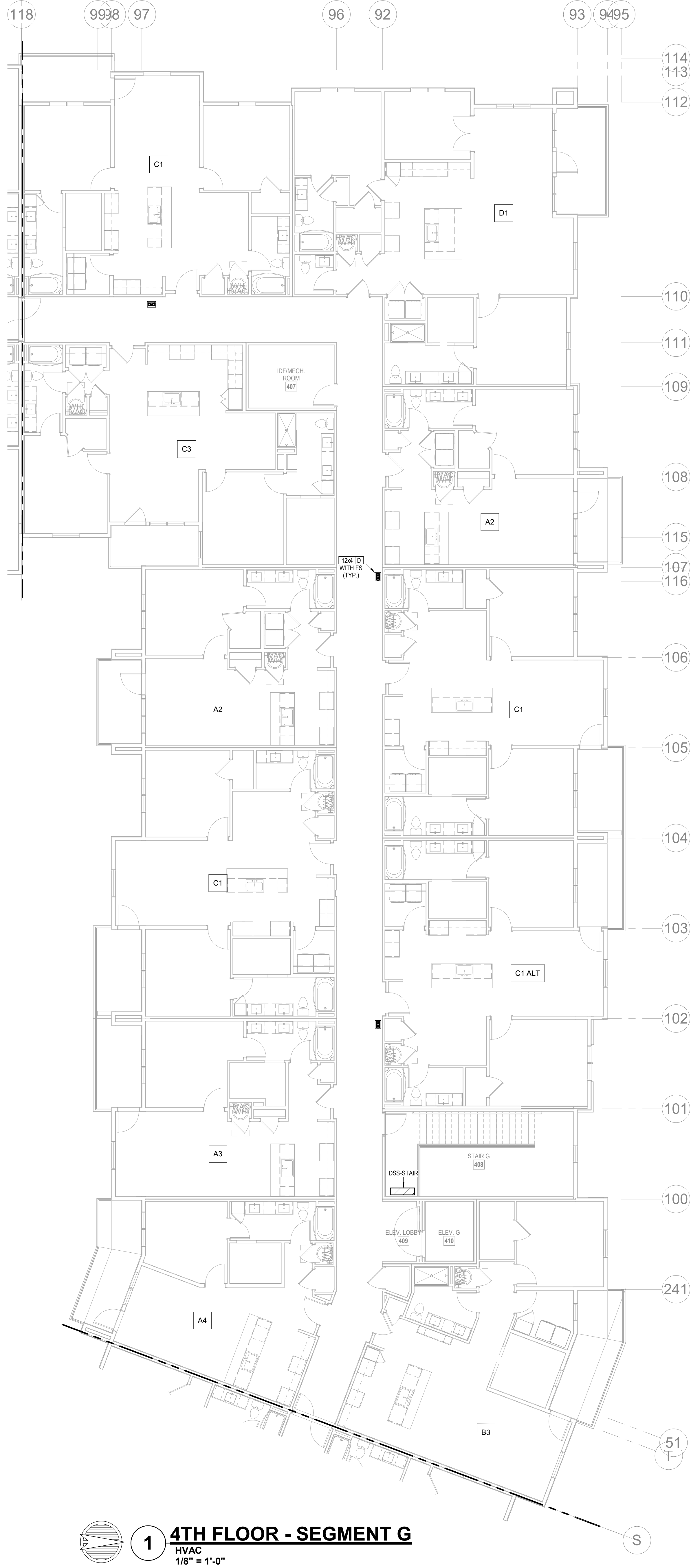


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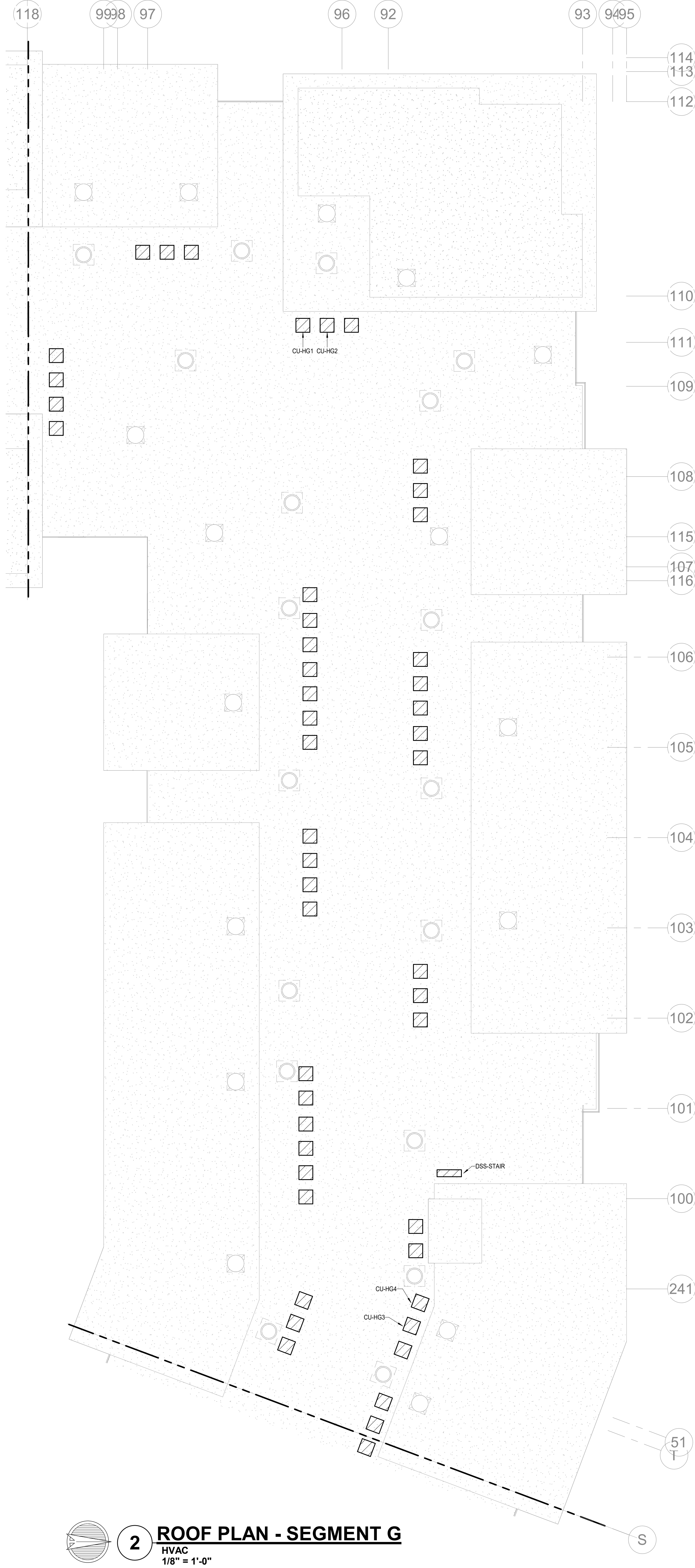
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4/11/2023

SHEET NAME
SEGMENT G - 2ND & 3RD
FLOOR - HVAC
SHEET NO.

M1.30



1 4TH FLOOR - SEGMENT G
HVAC
1/8" = 1'-0"



2 ROOF PLAN - SEGMENT G
HVAC
1/8" = 1'-0"

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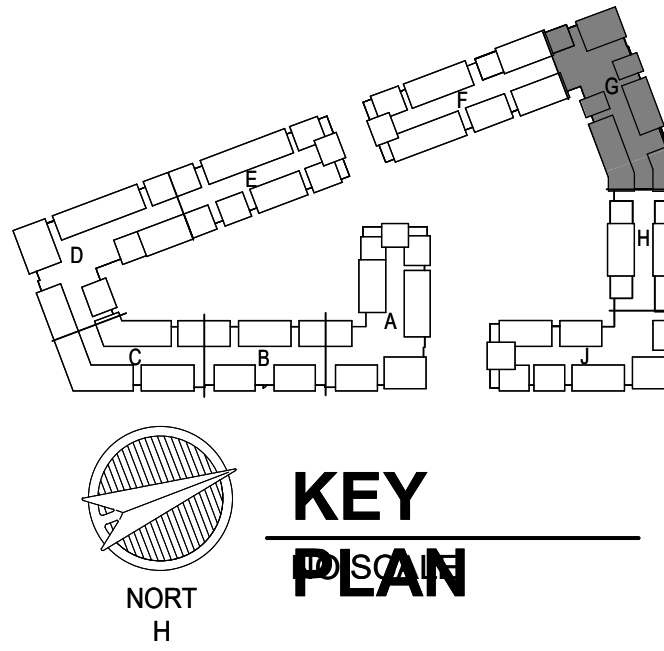
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JOB NO.
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DATE
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SHEET NAME
SEGMENT G - 4TH FLOOR & ROOF PLAN - HVAC

SHEET NO.

M1.31



1 1ST FLOOR - SEGMENT H
HVAC
1/8" = 1'-0"



2 BASEMENT - SEGMENT H
HVAC
1/8" = 1'-0"

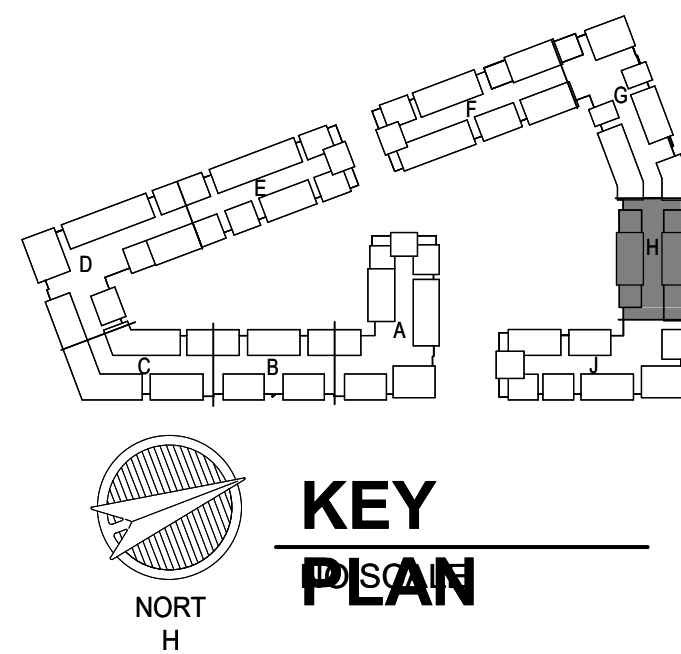
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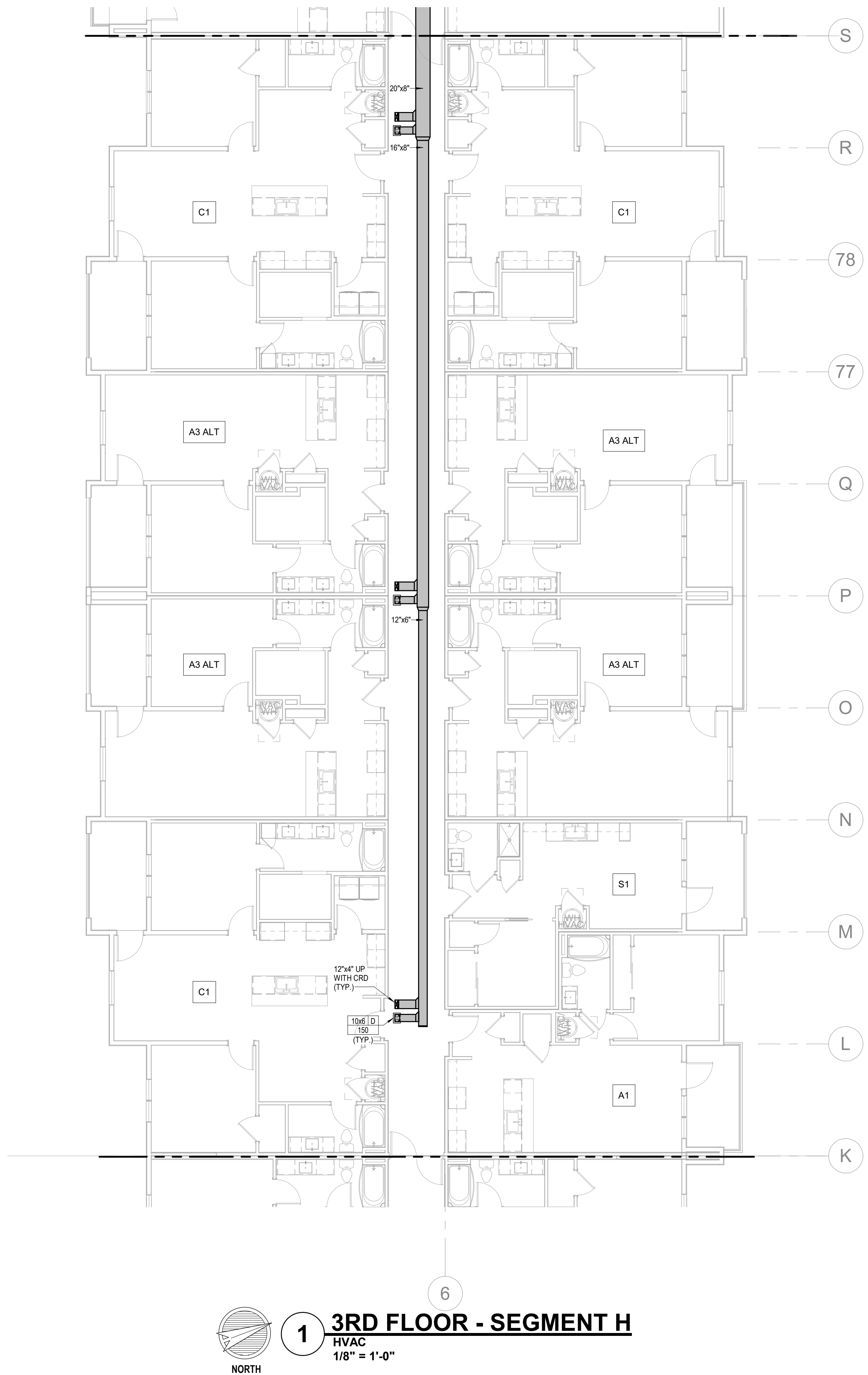
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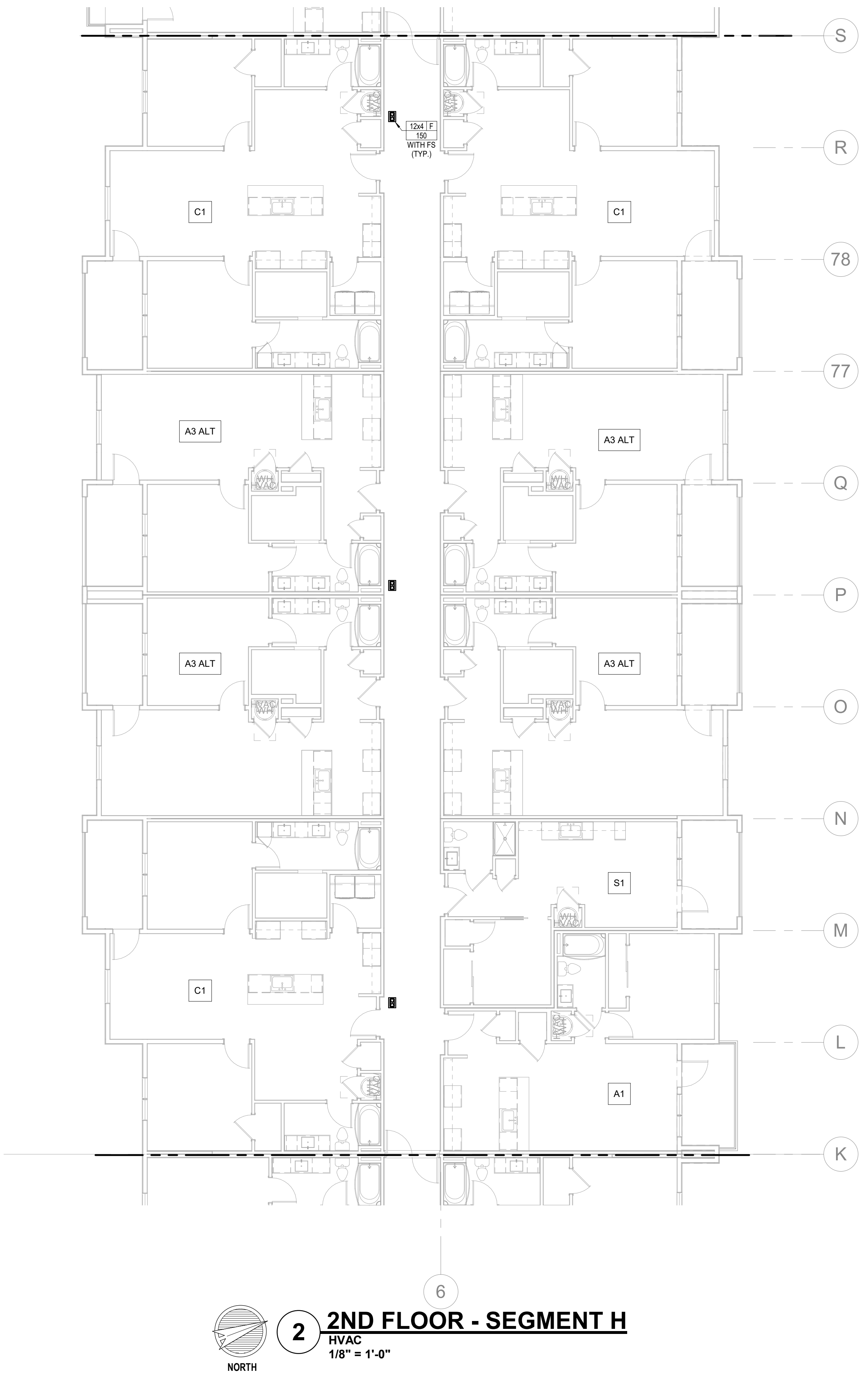
JOB NO. 705921 DATE 03.15.2023

CITY COMMENTS
SHEET NAME
**SEGMENT H - BASEMENT &
1ST FLOOR - HVAC**
SHEET NO.

M1.32



1 3RD FLOOR - SEGMENT H
HVAC
1/8" = 1'-0"



2 2ND FLOOR - SEGMENT H
HVAC
1/8" = 1'-0"

- NOTES:**
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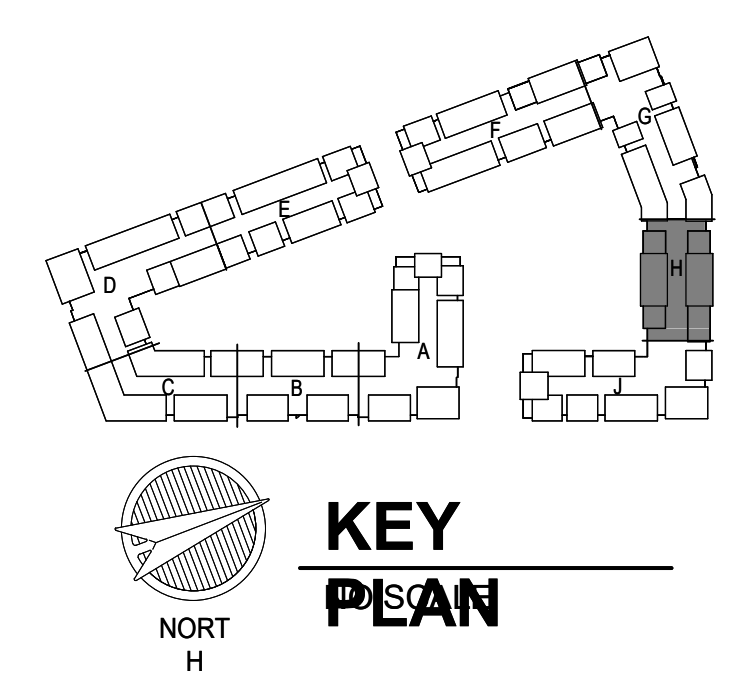
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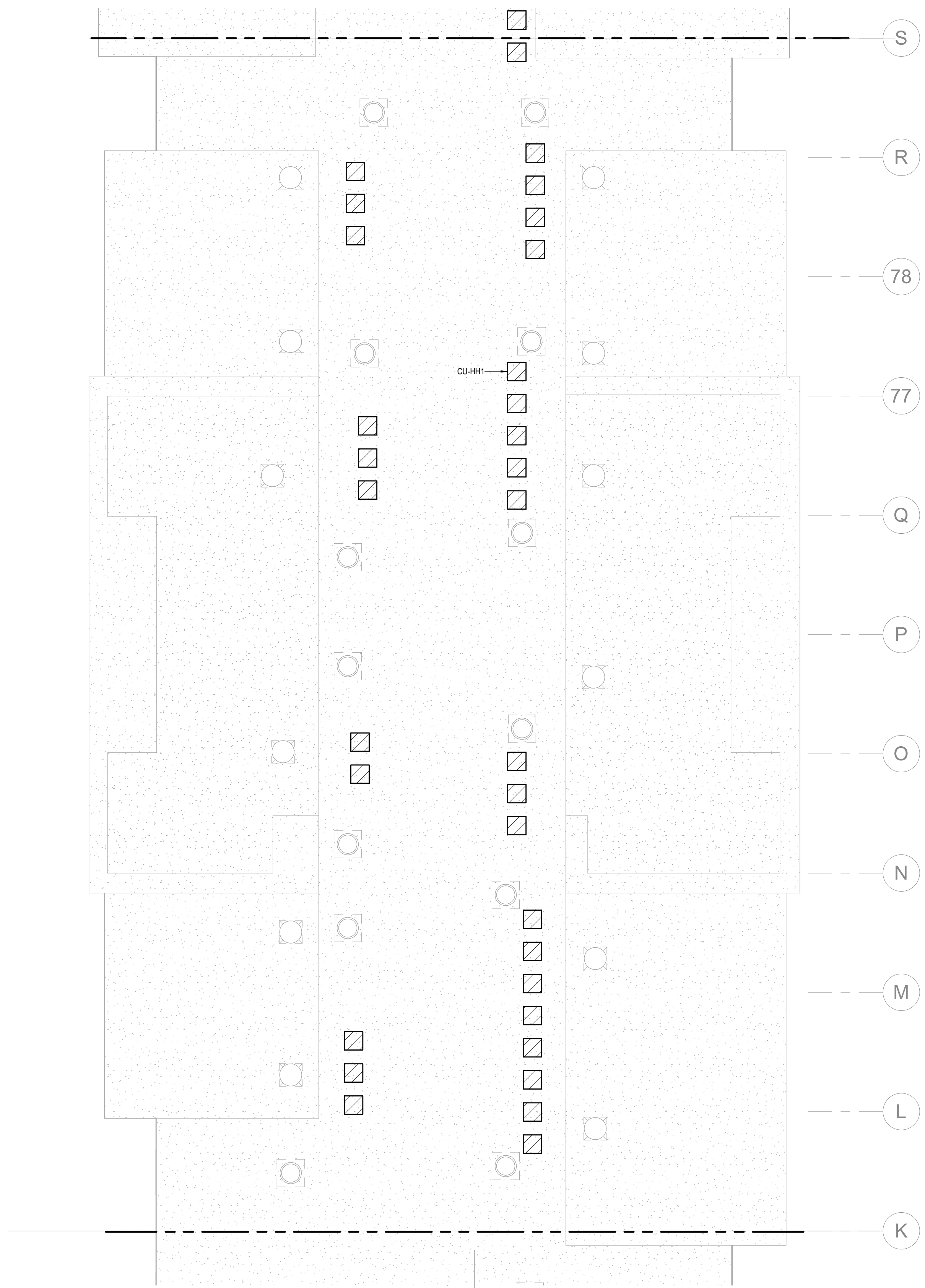


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JOB NO. 705921
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4/11/2023
CITY COMMENTS
SEGMENT H - 2ND & 3RD FLOOR - HVAC
SHEET NO.

DATE 03.15.2023

M1.33



1 ROOF PLAN - SEGMENT H
HVAC
1/8" = 1'-0"



2 4TH FLOOR - SEGMENT H
HVAC
1/8" = 1'-0"

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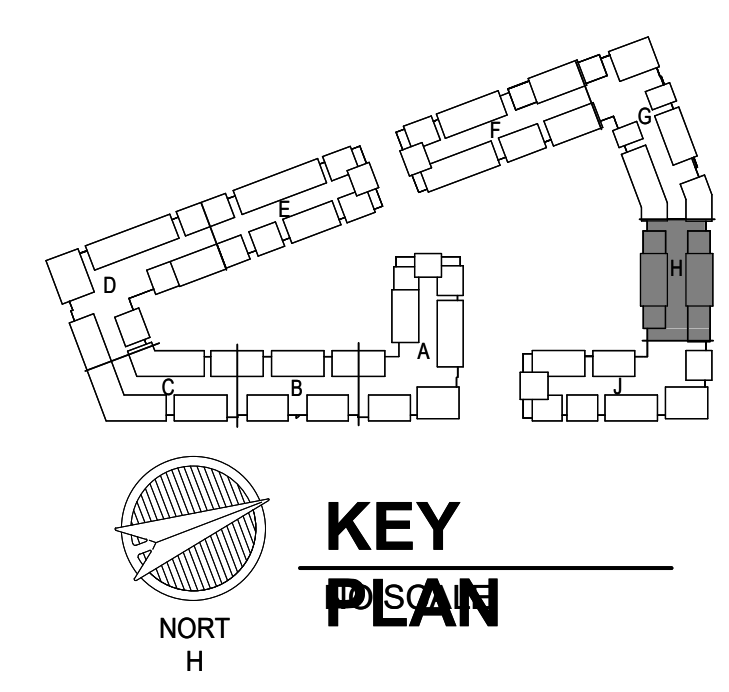
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SHEET NAME
CITY COMMENTS

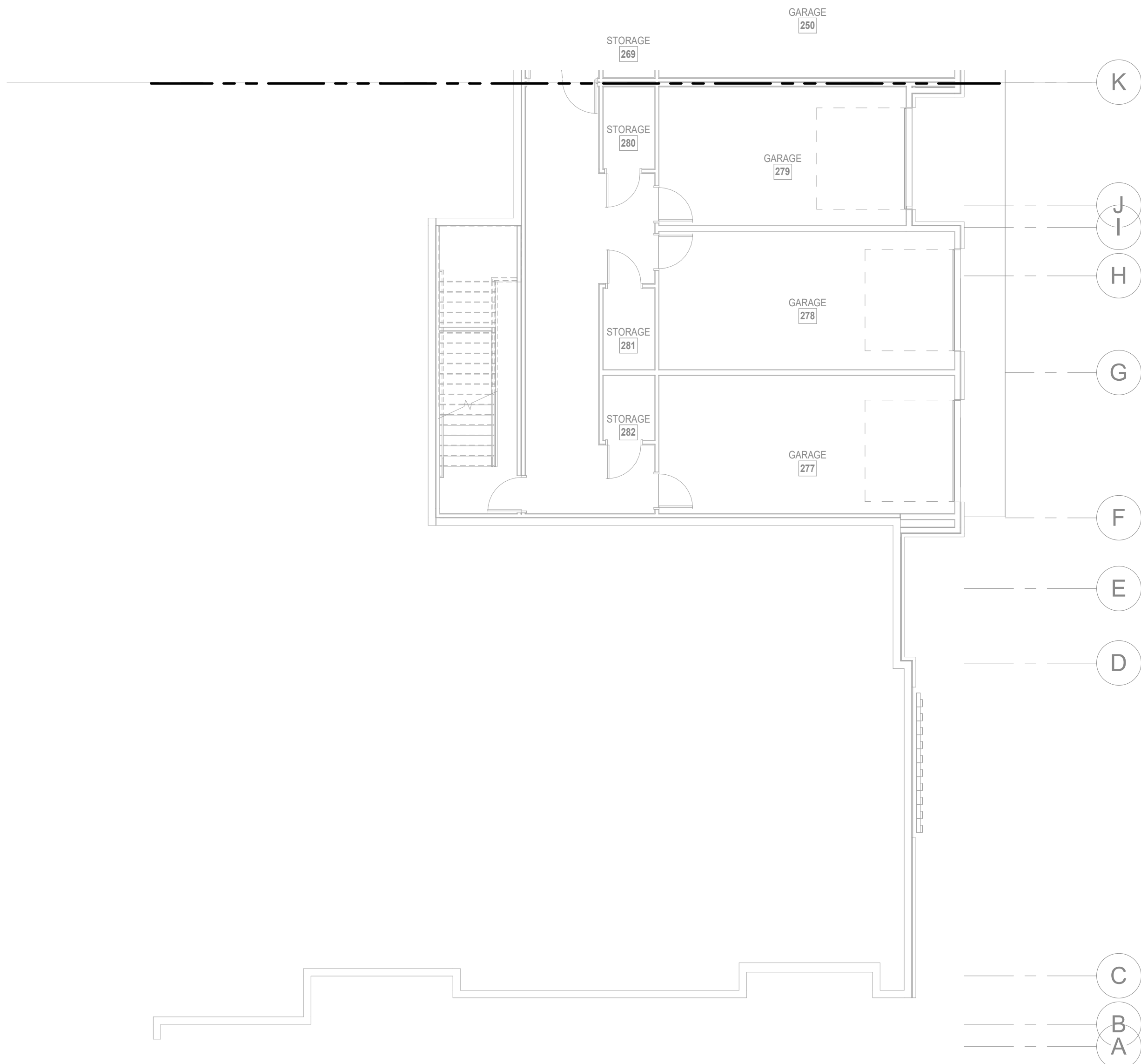
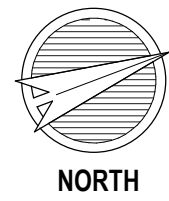
SEGMENT H - 4TH FLOOR &
ROOF PLAN - HVAC

SHEET NO.

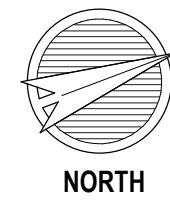
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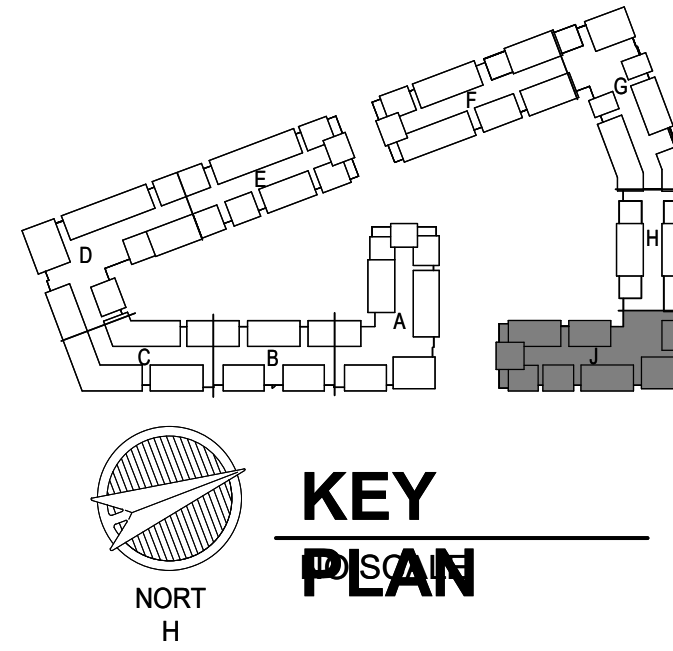
1 1ST FLOOR - SEGMENT J
HVAC
1/8" = 1'-0"



2 BASEMENT - SEGMENT J
HVAC
1/8" = 1'-0"

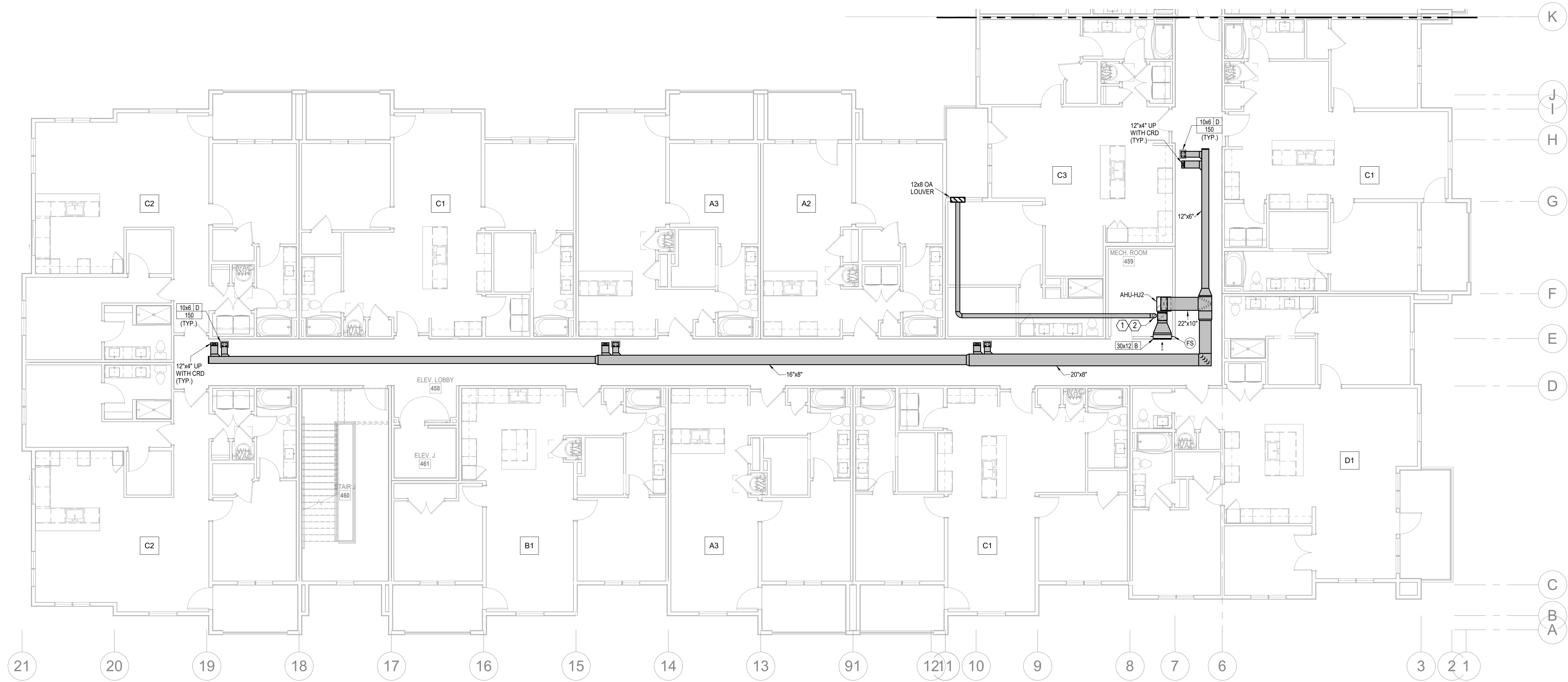


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1 2ND FLOOR - SEGMENT J
HVAC
1/8" = 1'-0"



2 3RD FLOOR - SEGMENT J
HVAC
1/8" = 1'-0"

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 - FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 15 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.

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LANDSCAPE
ARCHITECTURE
ENERGY SERVICES

NSPJ

ARCHITECTSSM
3515 W. 75TH ST., SUITE 201
PRAIRIE VILLAGE, KS 66208

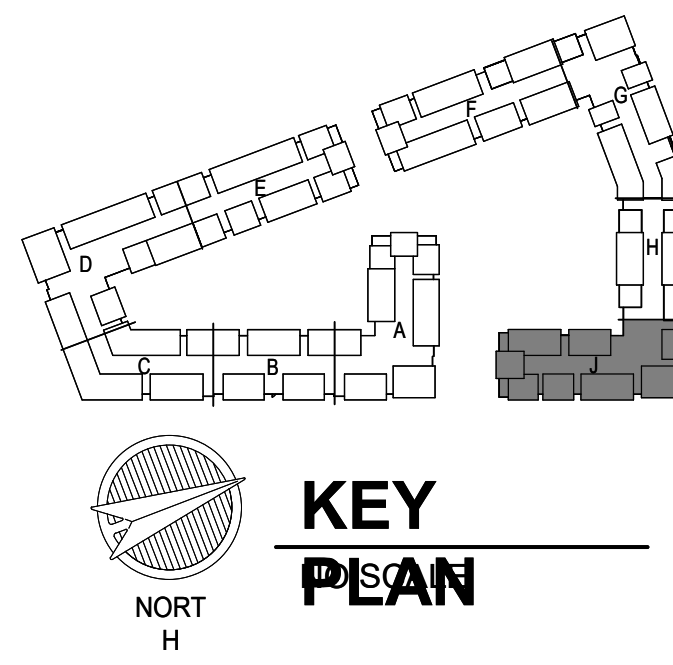
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03/15/2023

A NEW RESIDENTIAL COMMUNITY AT:

TRIOLOGY

800 & 810 NW WARD RD. | LEE'S SUMMIT, MO



DRAWING RELEASE LOG
03.15.2023 - PERMIT SUBMITTAL

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Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

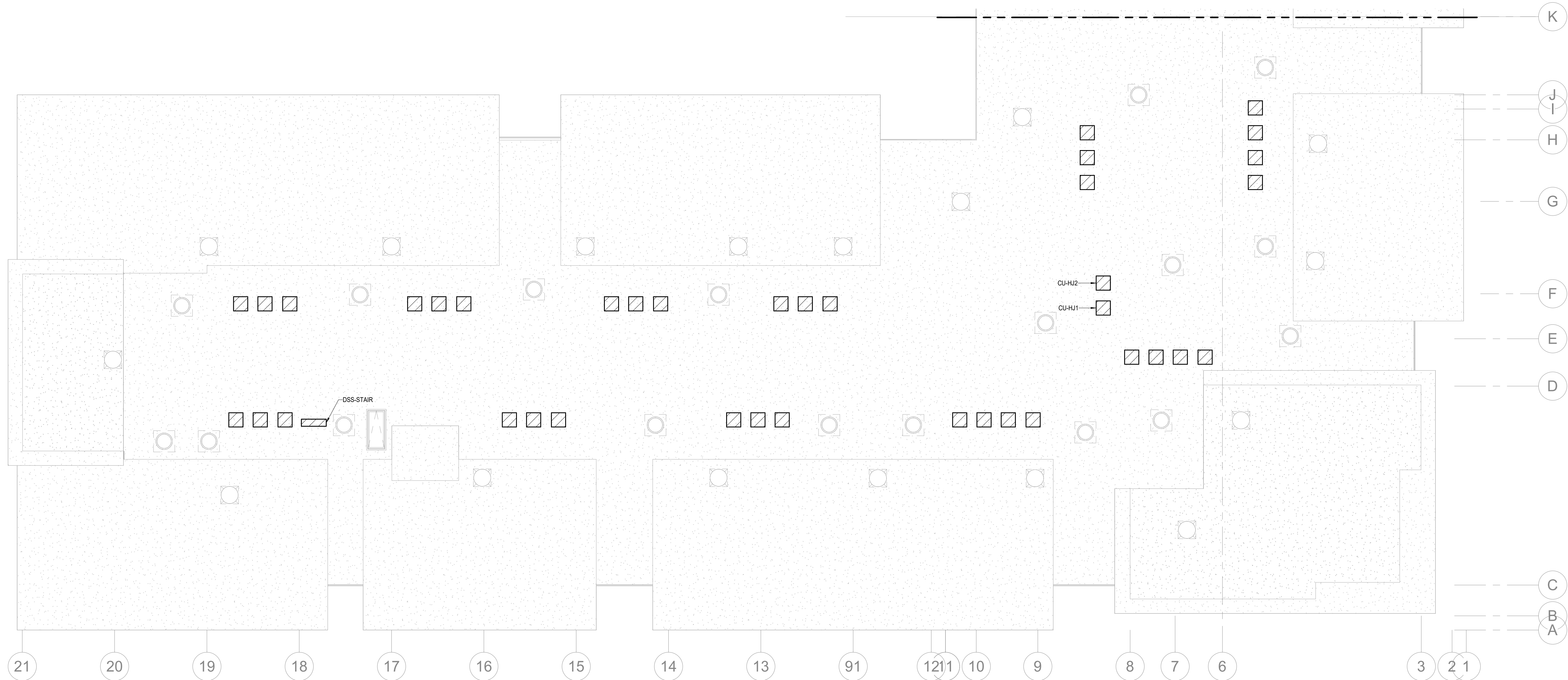
JOB NO. 705921
DRAWN BY LSA CAD
4/11/2023

SHEET NAME
SEGMENT J - 2ND & 3RD FLOOR - HVAC
SHEET NO.

M1.36

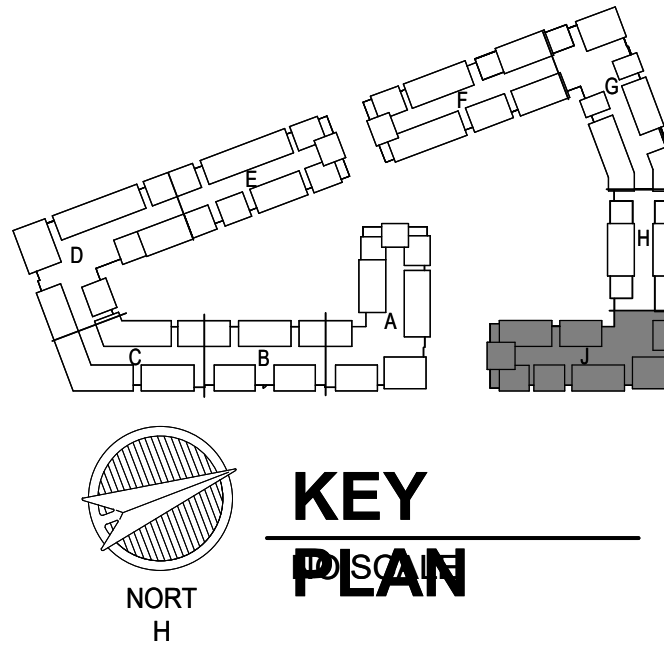


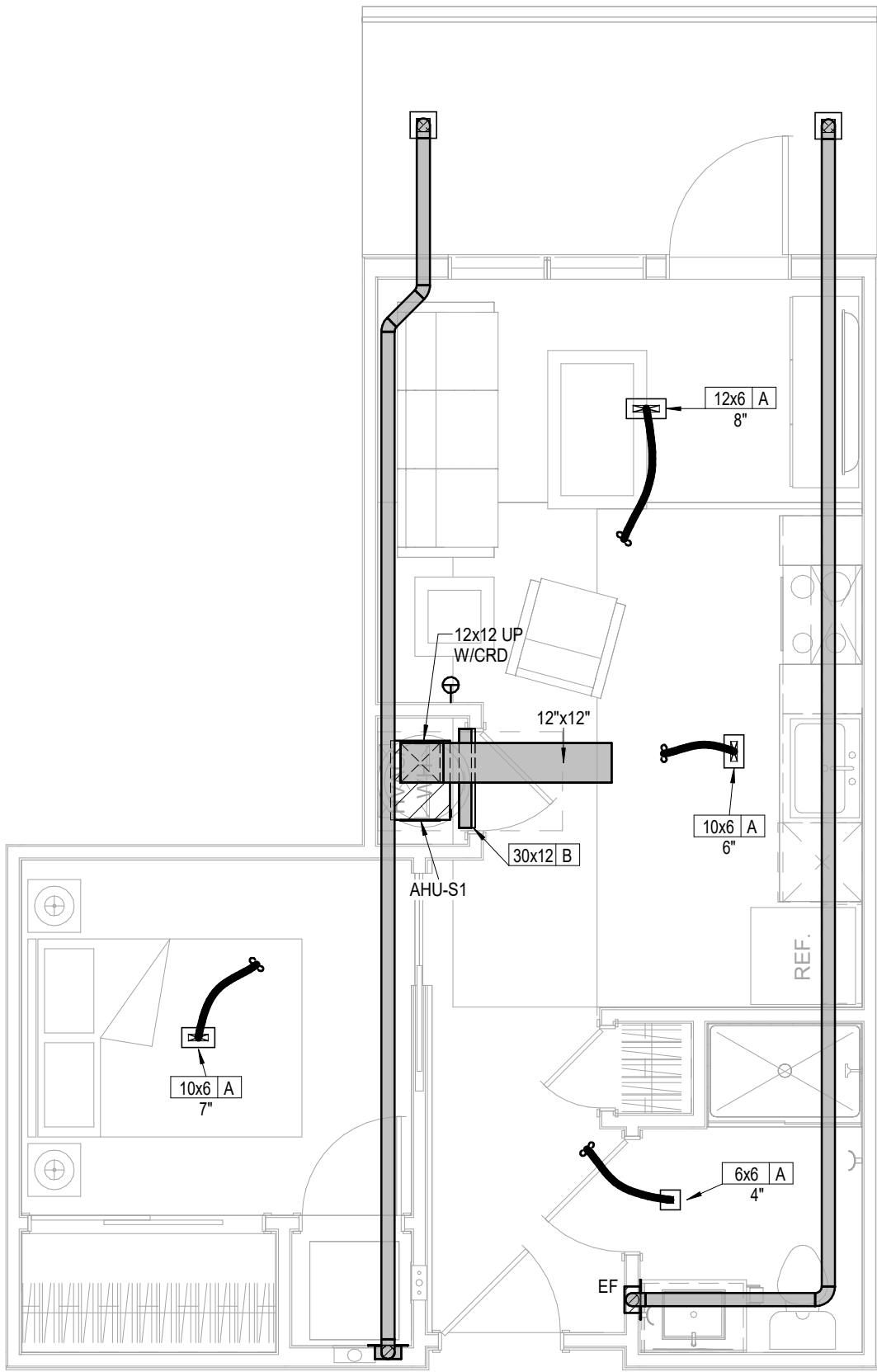
1 4TH FLOOR - SEGMENT J
HVAC
1/8" = 1'-0"



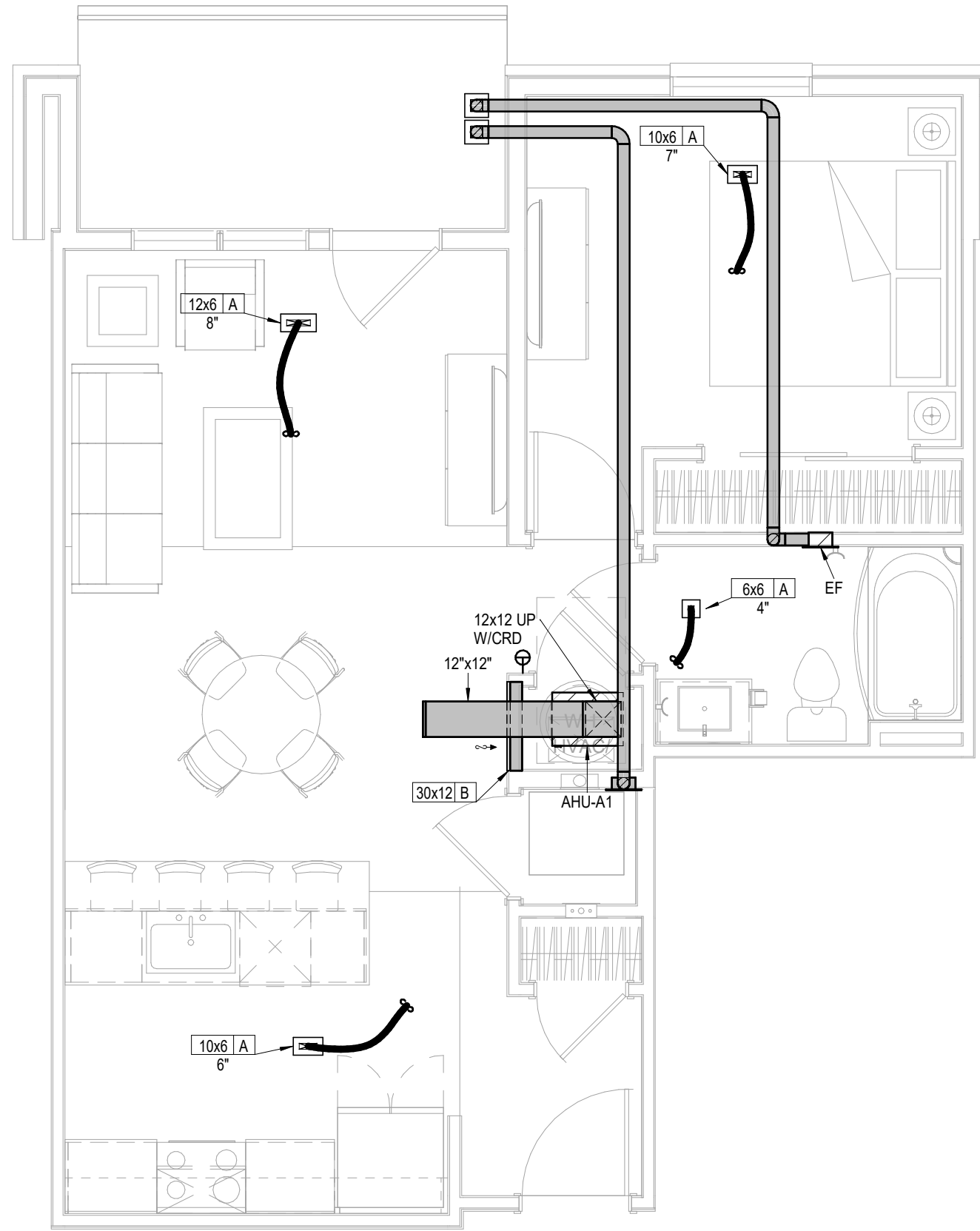
2 ROOF PLAN - SEGMENT J
HVAC
1/8" = 1'-0"

- NOTES:**
- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
 - ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
 - SEE THE ARCHITECTURAL LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
 - MAINTAIN 3 FEET CLEARANCE FROM EXHAUST DUCTS TO BUILDING OPENINGS AND 10 FEET TO AIR INTAKES.
 - ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
 - FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 15 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.

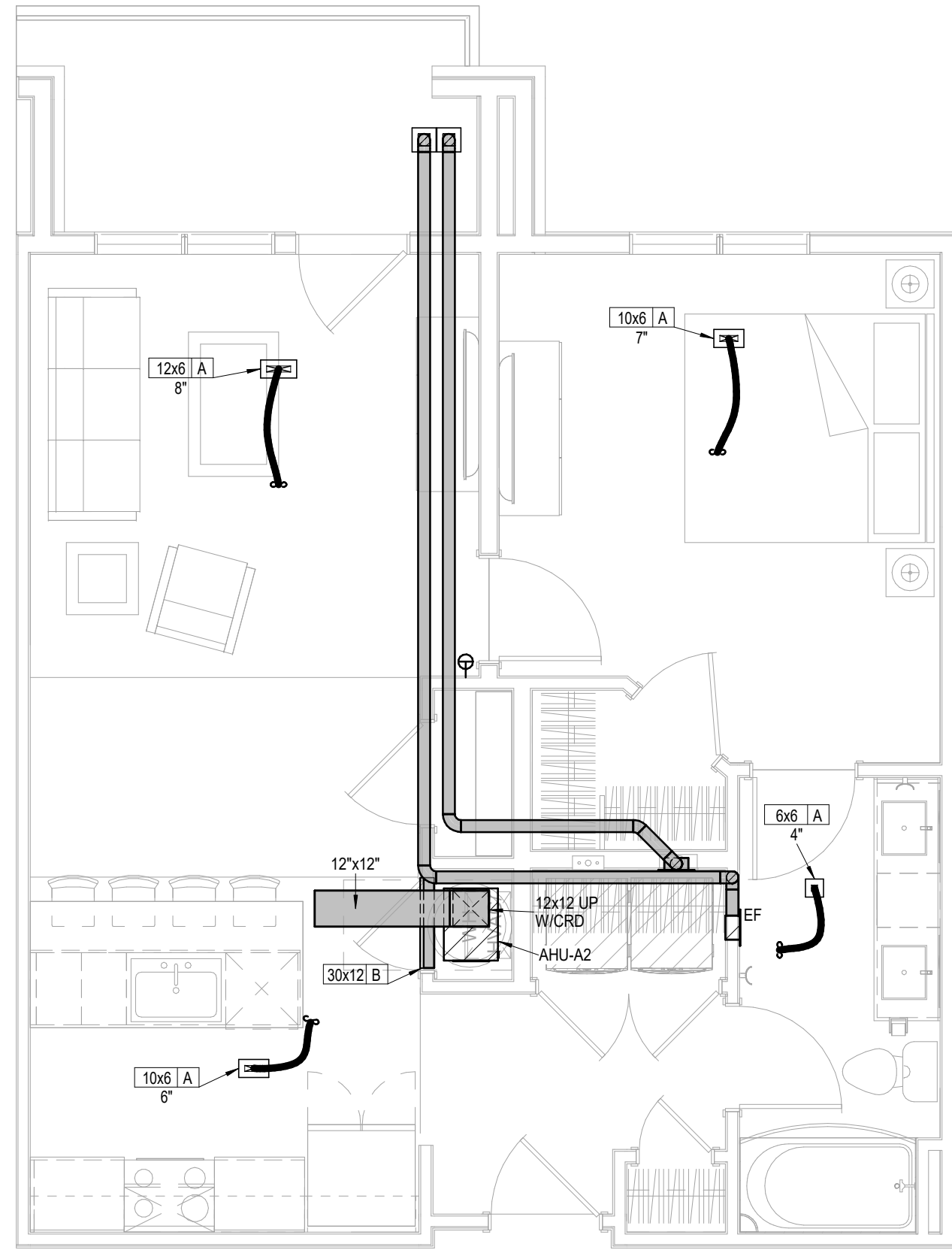




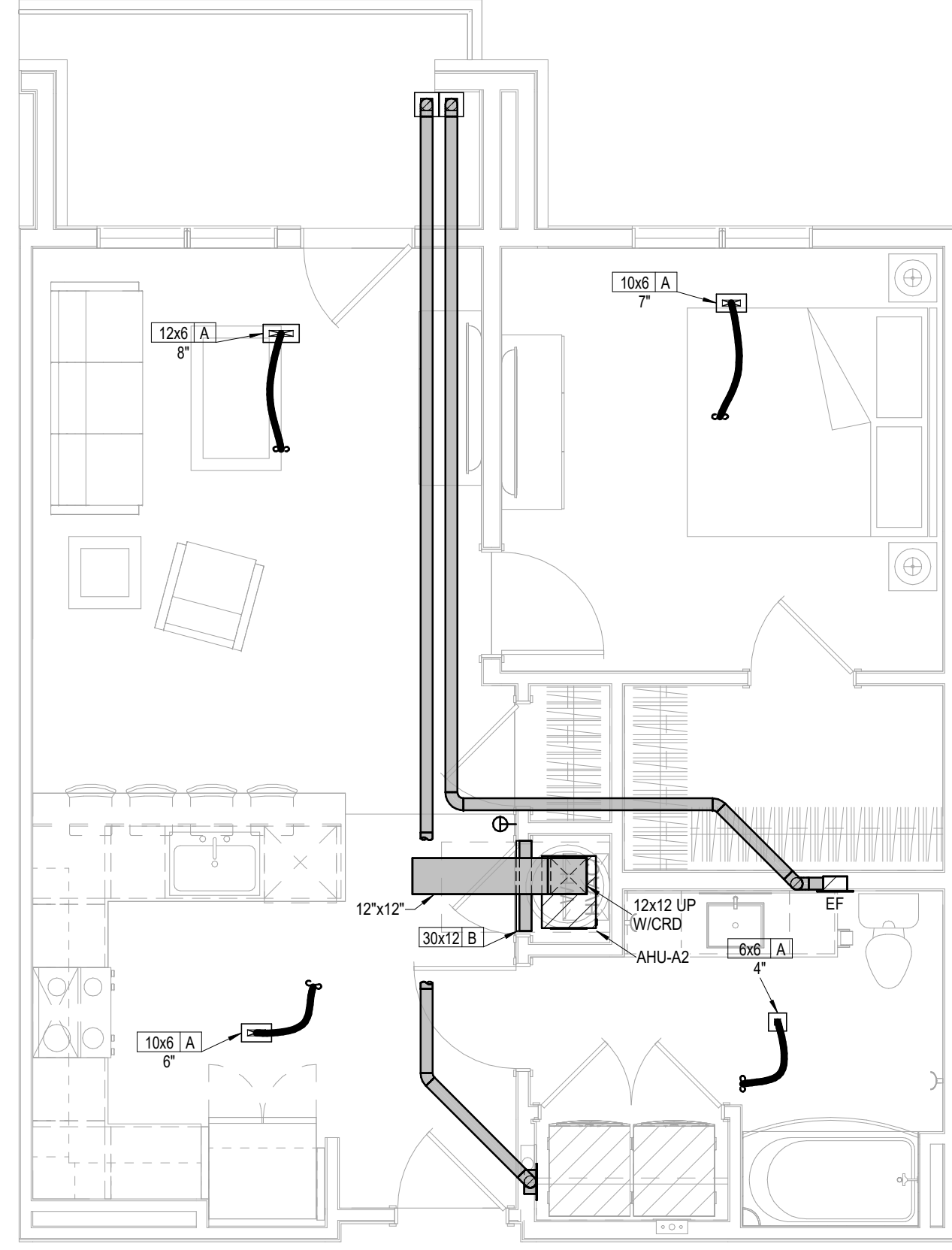
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HVAC
1/4" = 1'-0"



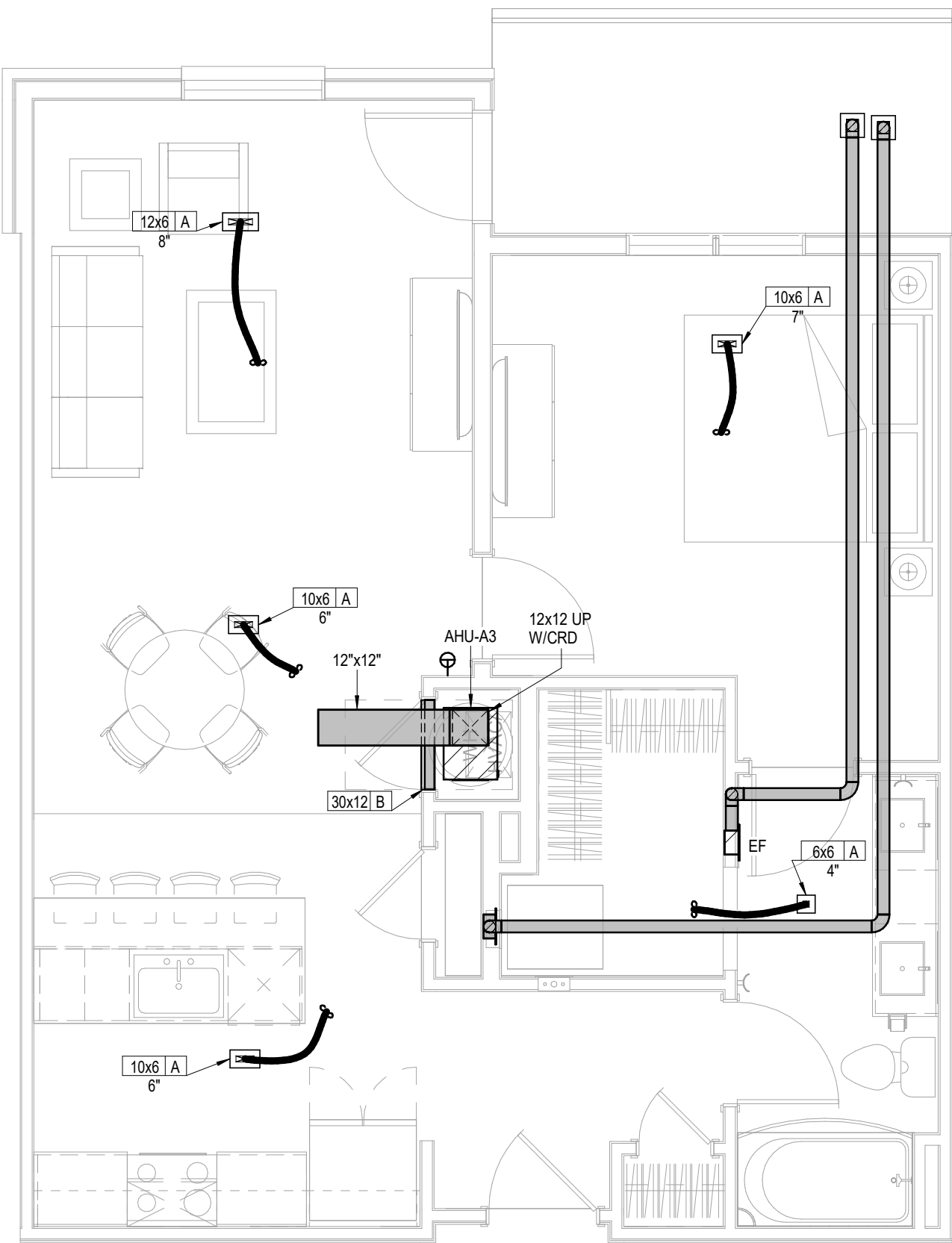
2 **UNIT A1**
HVAC
1/4" = 1'-0"



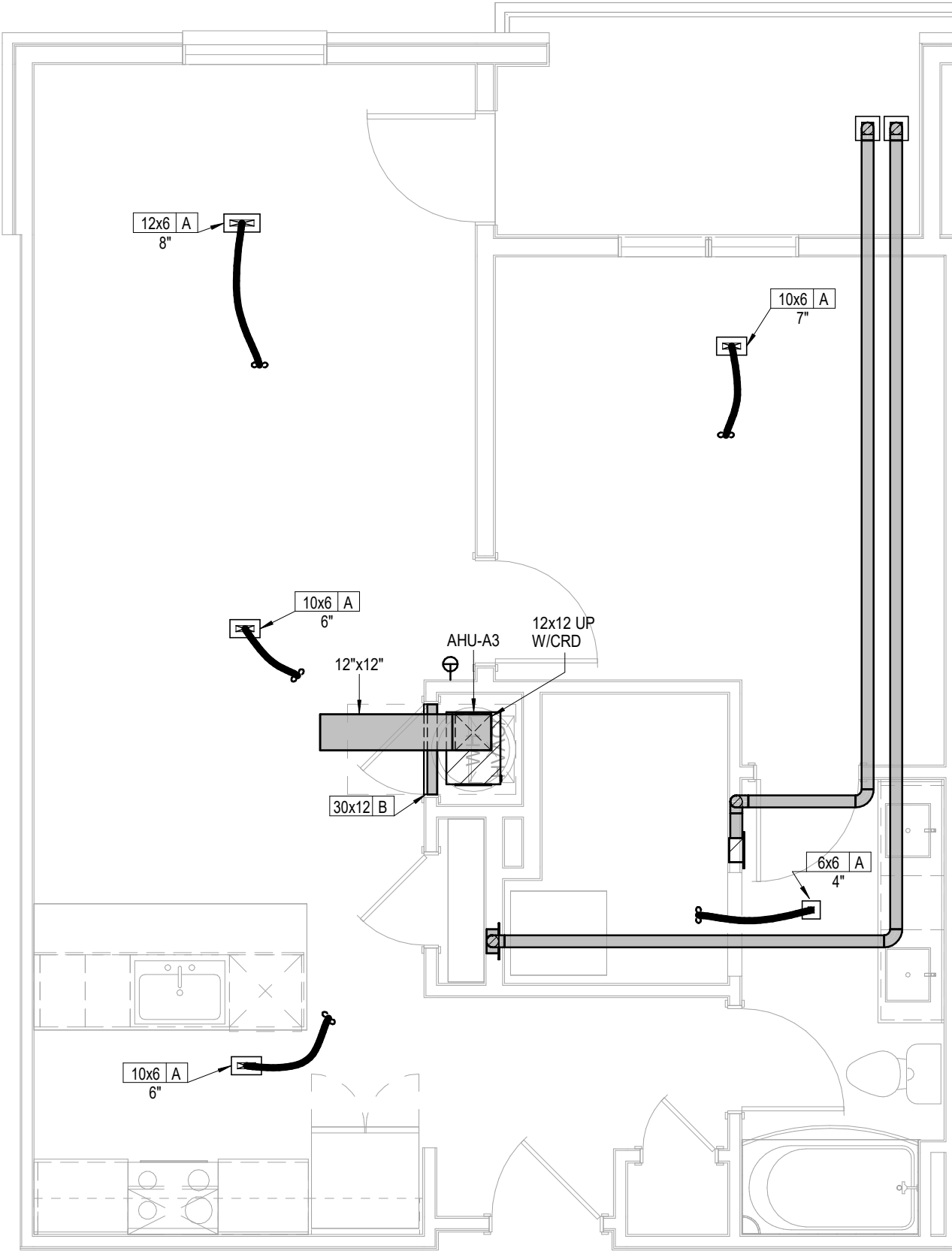
3 **UNIT A2**
HVAC
1/4" = 1'-0"



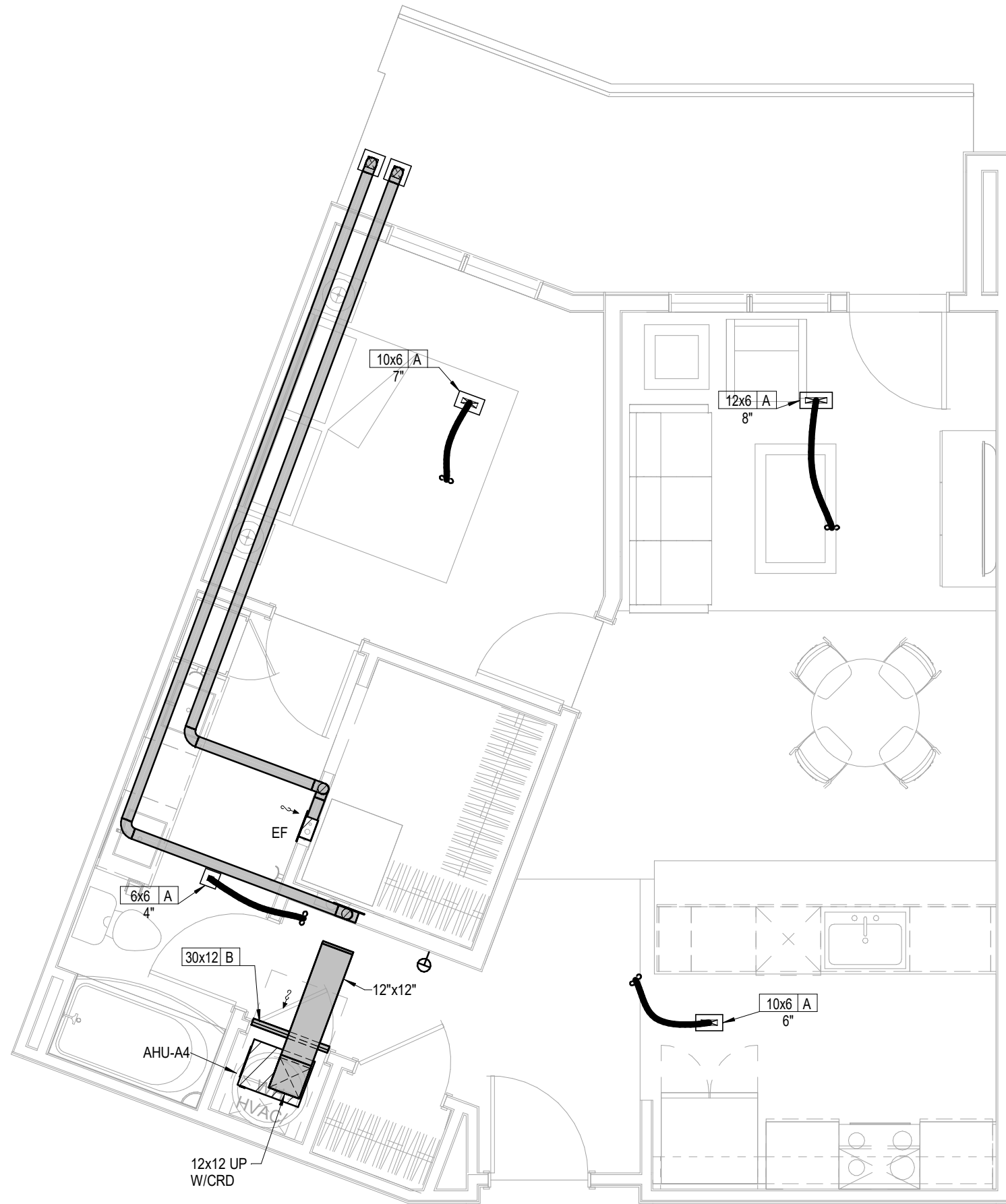
4 **UNIT A2 TYPE A**
HVAC
1/4" = 1'-0"



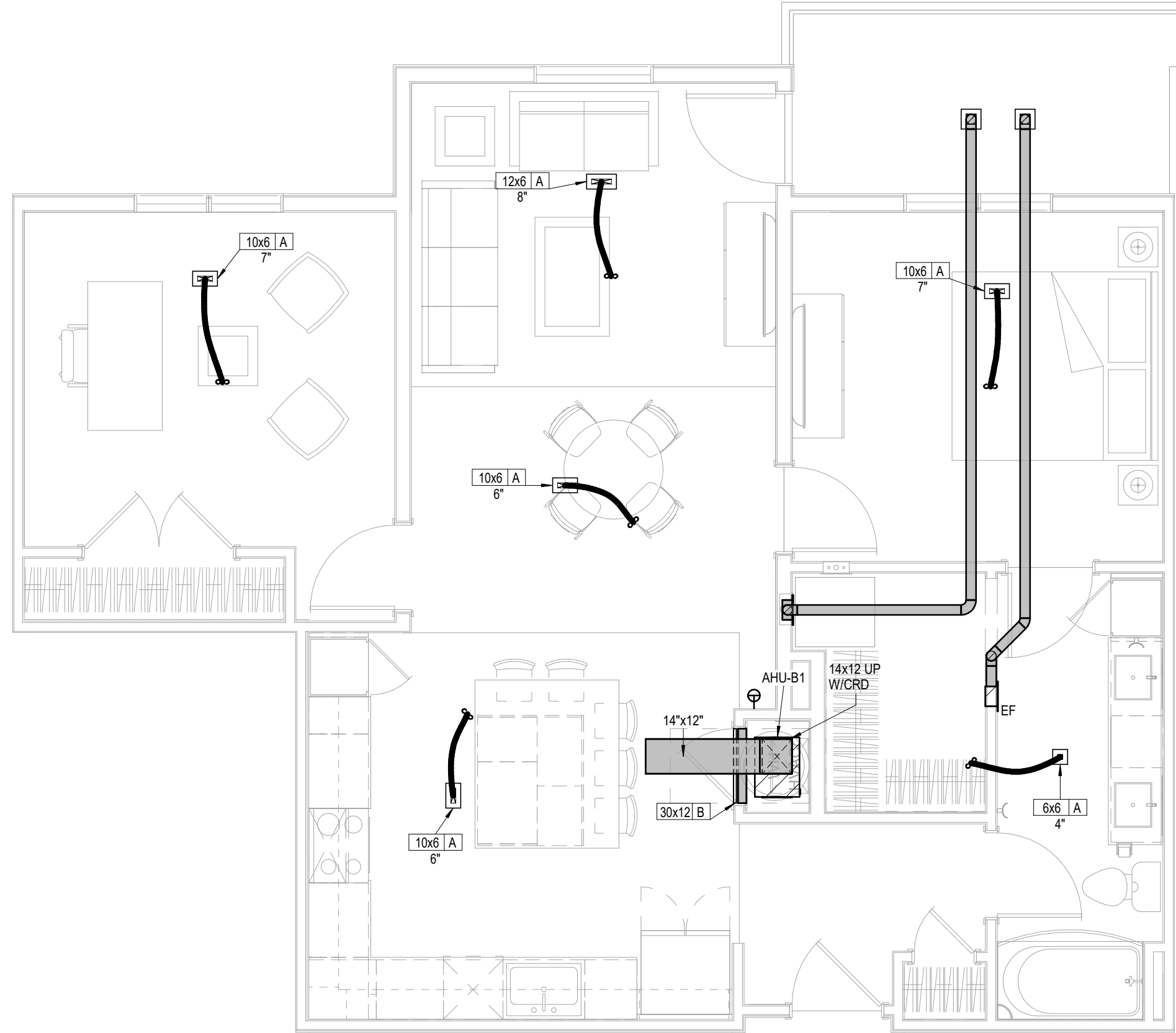
5 **UNIT A3**
HVAC
1/4" = 1'-0"



6 **UNIT A3 ALT 1**
HVAC
1/4" = 1'-0"

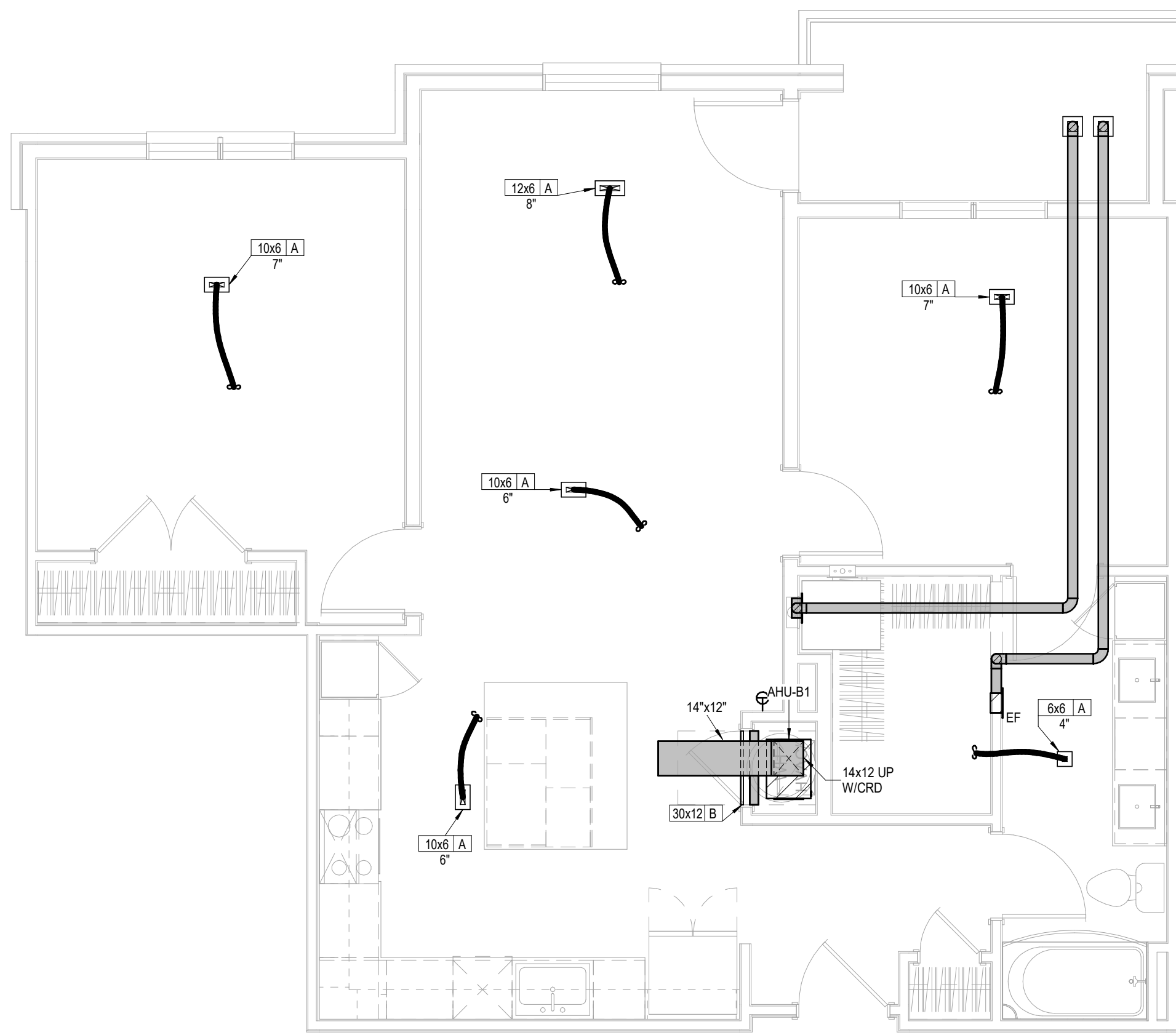


7 **UNIT A4**
HVAC
1/4" = 1'-0"

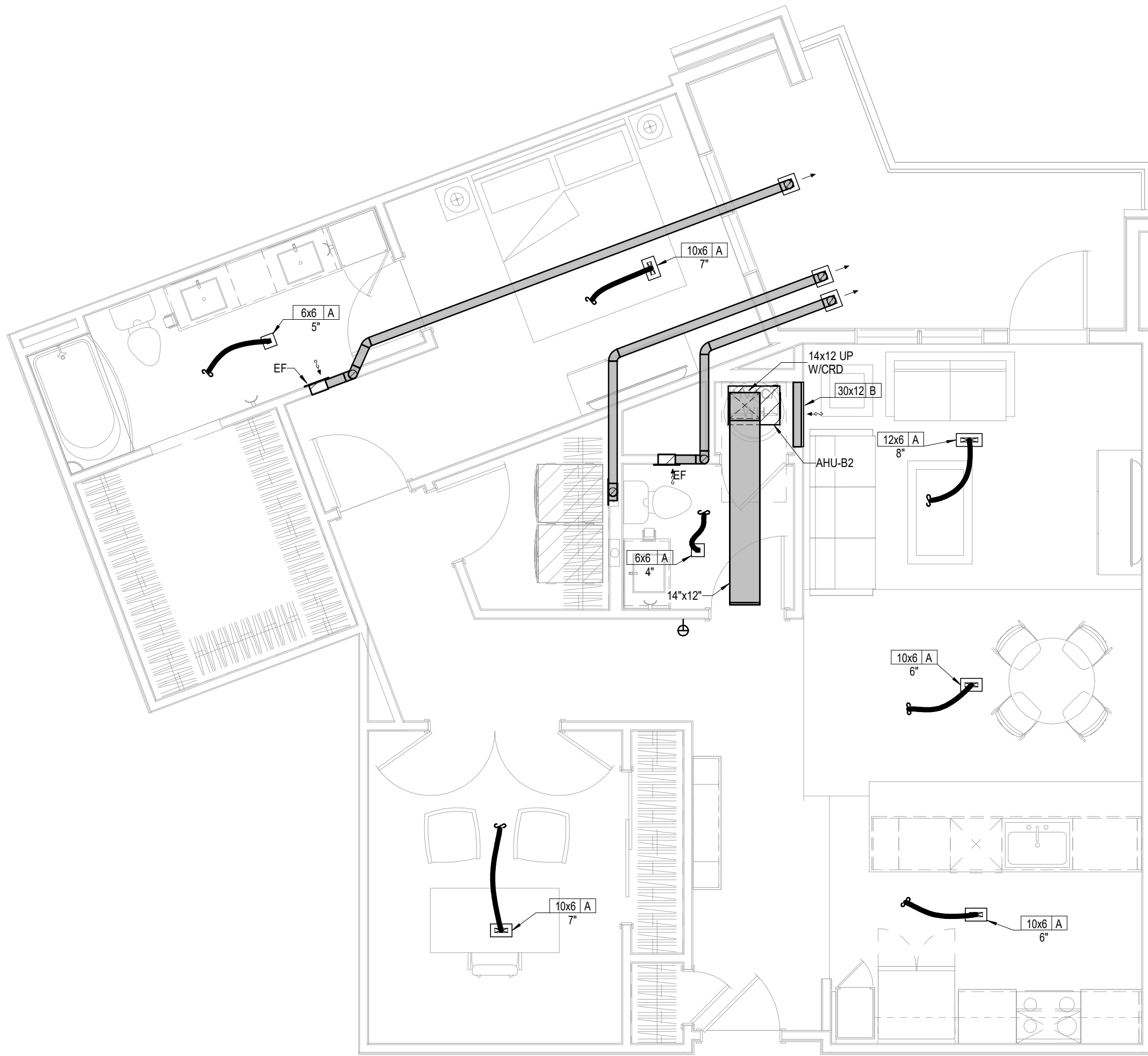


8 **UNIT B1**
HVAC
1/4" = 1'-0"

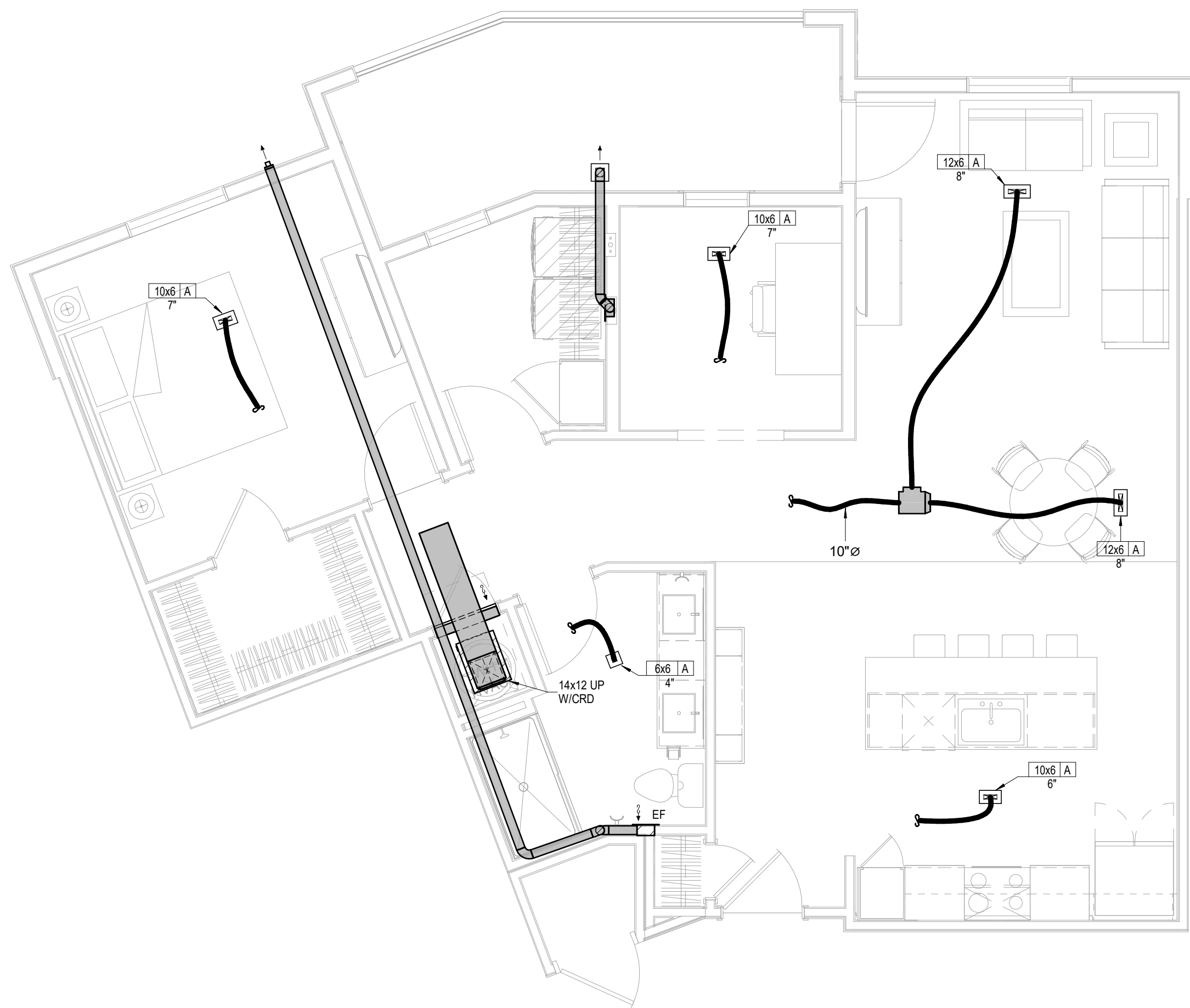
- UNIT MECHANICAL NOTES:
- ALL TYPE "A" SUPPLY REGISTERS HAVE A UL555C CEILING RADIATION DAMPER UNLESS NOTED OTHERWISE. PROVIDE CRD UNLESS NOTED OTHERWISE AT AHU DISCHARGE AND RATED MEMBRANE.
 - PROVIDE MANUFACTURER REQUIRED CLEARANCES FOR AHUS AND WATER HEATERS.
 - ALL CONDENSING UNITS ARE ROOF MOUNTED.
 - MANUFACTURER SHALL PROVIDE ANY ACCESSORIES REQUIRED FOR PROPER OPERATION INCLUDING LONG LINE SET.
 - PROVIDE GUY GRAY MODEL DB350/DB30 DRYER VENT BOX AT ALL DRYER LOCATIONS. NOTE TOP FLOOR SHALL ROUTE THRU FLOOR BELOW.
 - GENERALLY CENTER GRILLES/REGISTERS IN WALLS, OVER DOORS, ALIGN WITH WINDOWS, ETC.
 - MAINTAIN 3 FT. FROM EXHAUST/VENTS TO BUILDING OPENINGS.
 - ROUTE AHU CONDENSATE INDIRECT TO FLOOR DRAINS IN AHU CLOSETS.
 - EXHAUST FANS AT TOP FLOOR MAY VENT TO ROOF.
 - SE RA GRILLE AT HVAC CLOSET AS CRD ACCESS. POSITION CORRECTLY. SIZE MAY VARY WITH SAME AREA.
 - TOP FLOOR DUCTS SHALL BE BELOW THE ATTIC INSULATION SHALL BE R-8 INSULATED AND SEALED TO PREVENT CONDENSATION.
 - TOP FLOOR EXHAUST VENT TO ROUTE THROUGH ROOF OR SIDEWALL OF HIGH ROOF TRANSITION.
 - DRAIN AHUS AND DSS TO FLOOR DRAIN, JAN. SINK OR SINK TAILPIECE.



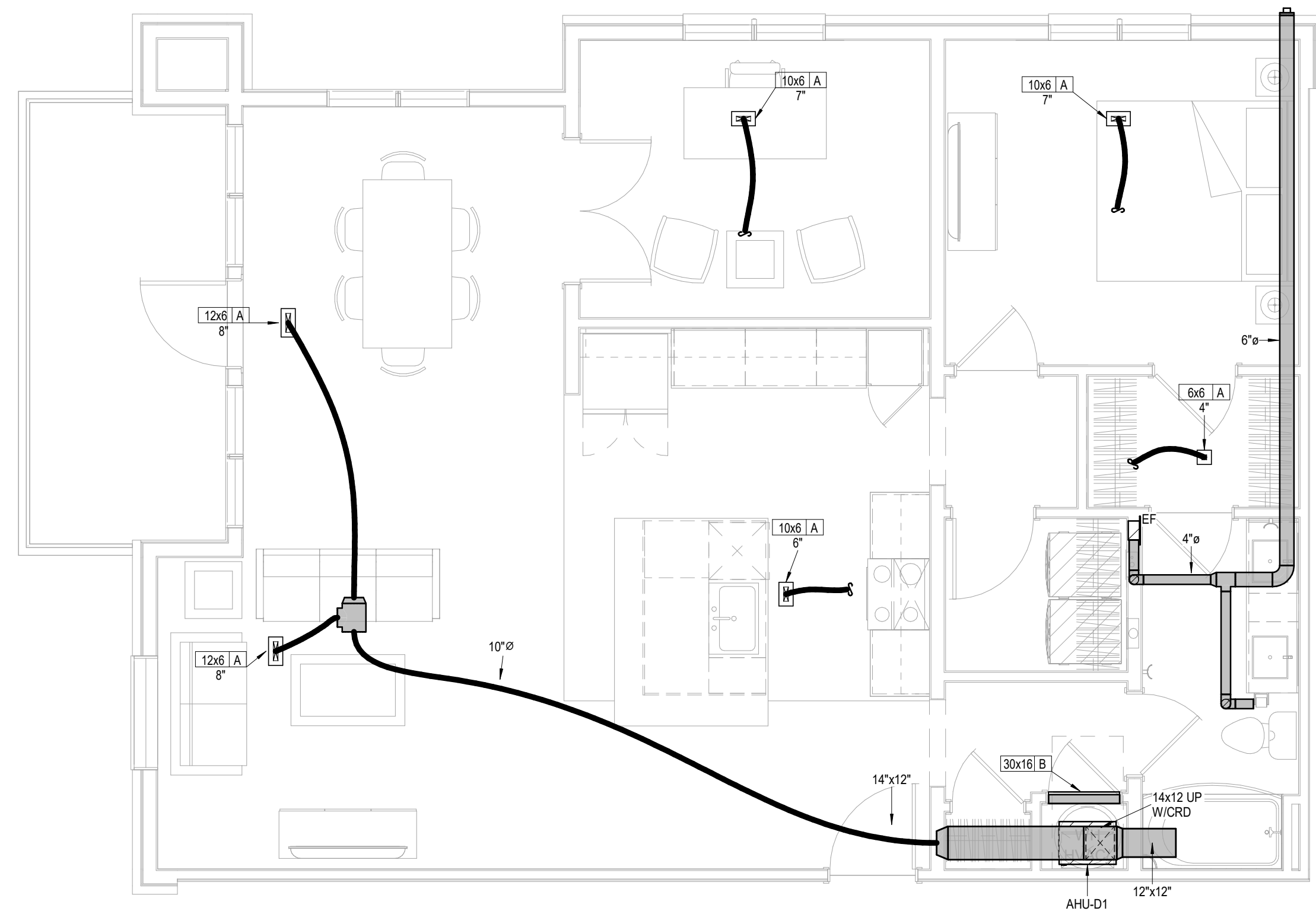
1 UNIT B1 ALT
HVAC
1/4" = 1'-0"



2 UNIT B2
HVAC
1/4" = 1'-0"

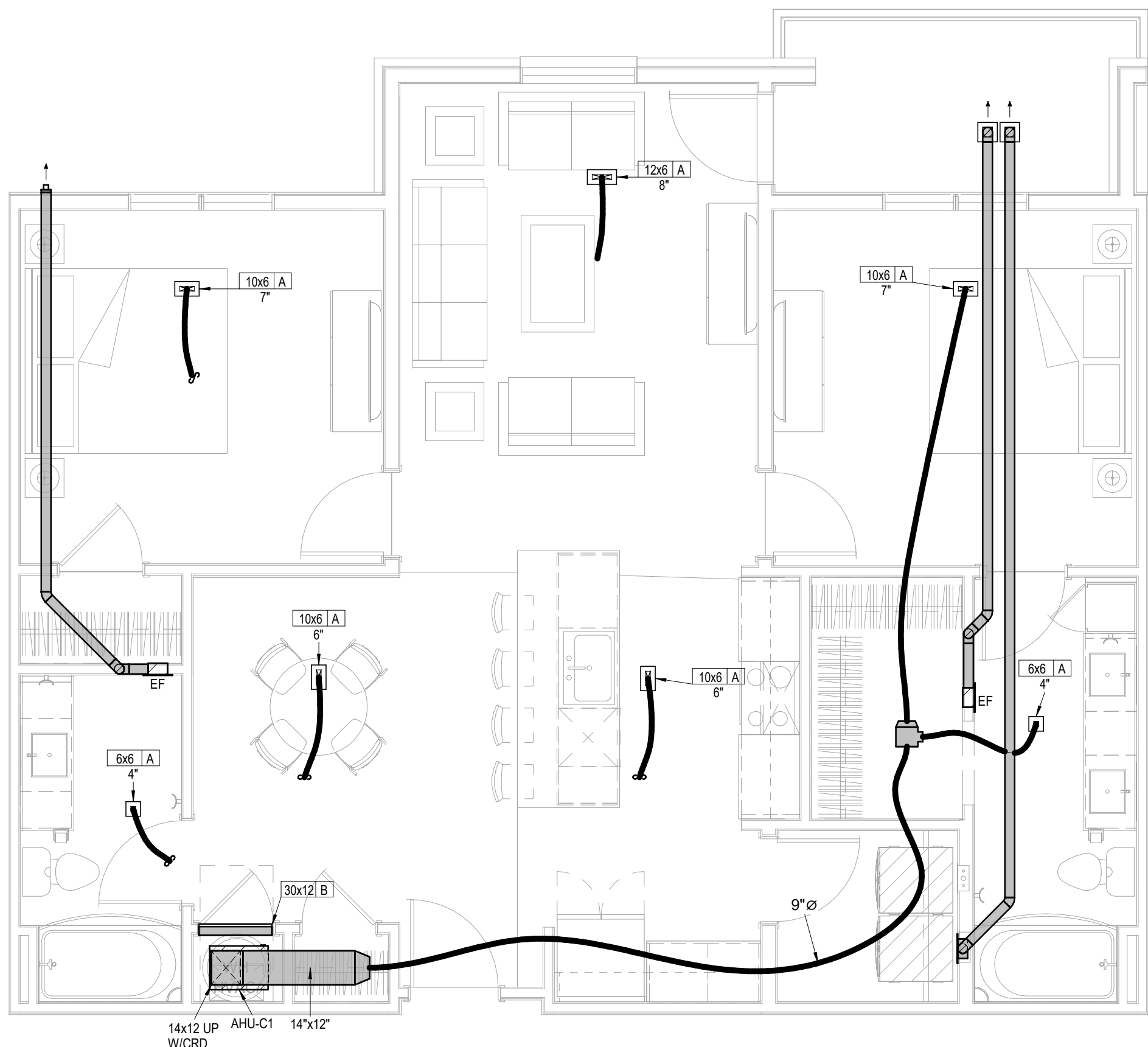


3 UNIT B3
HVAC
1/4" = 1'-0"

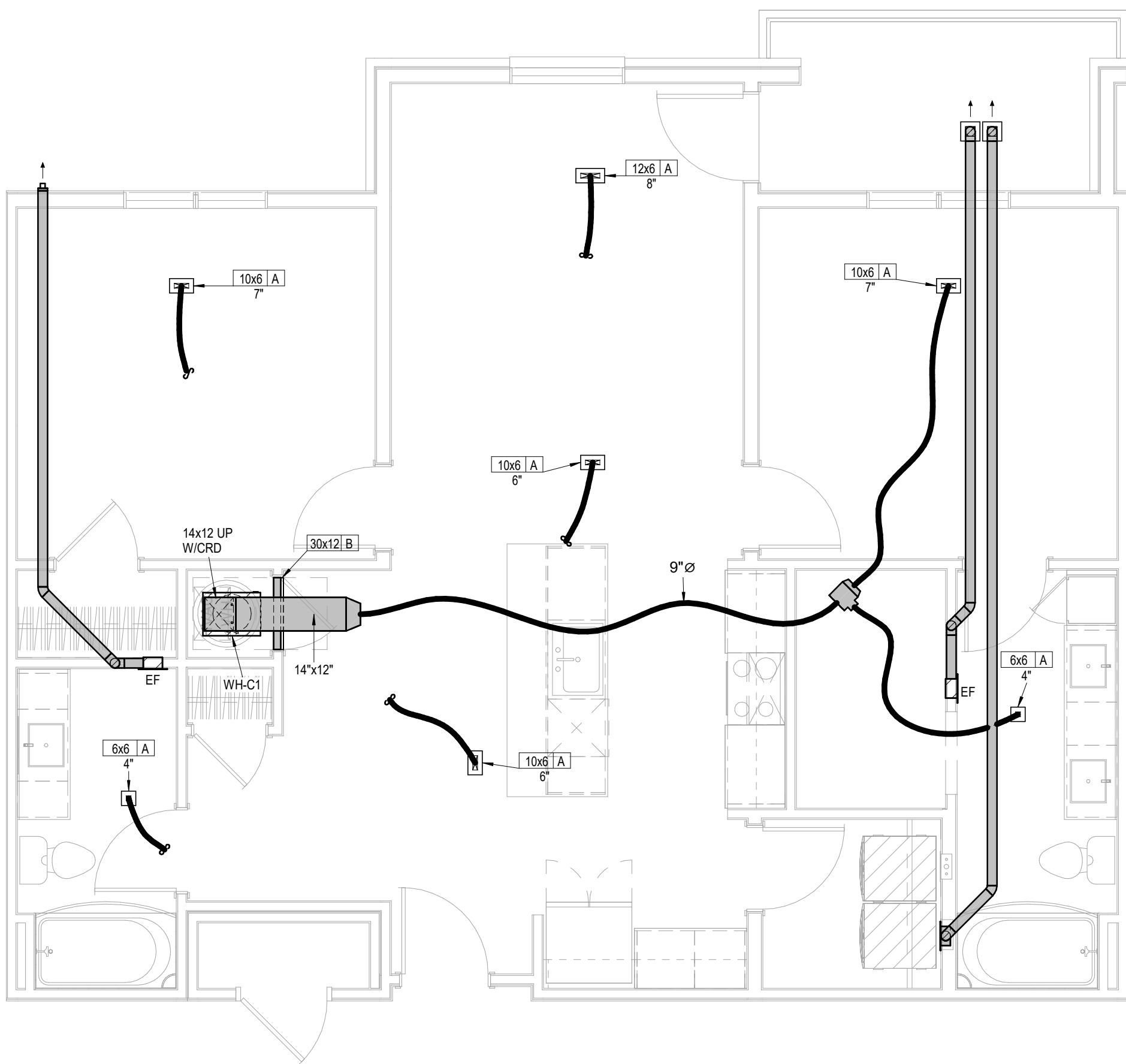


4 UNIT B4
HVAC
1/4" = 1'-0"

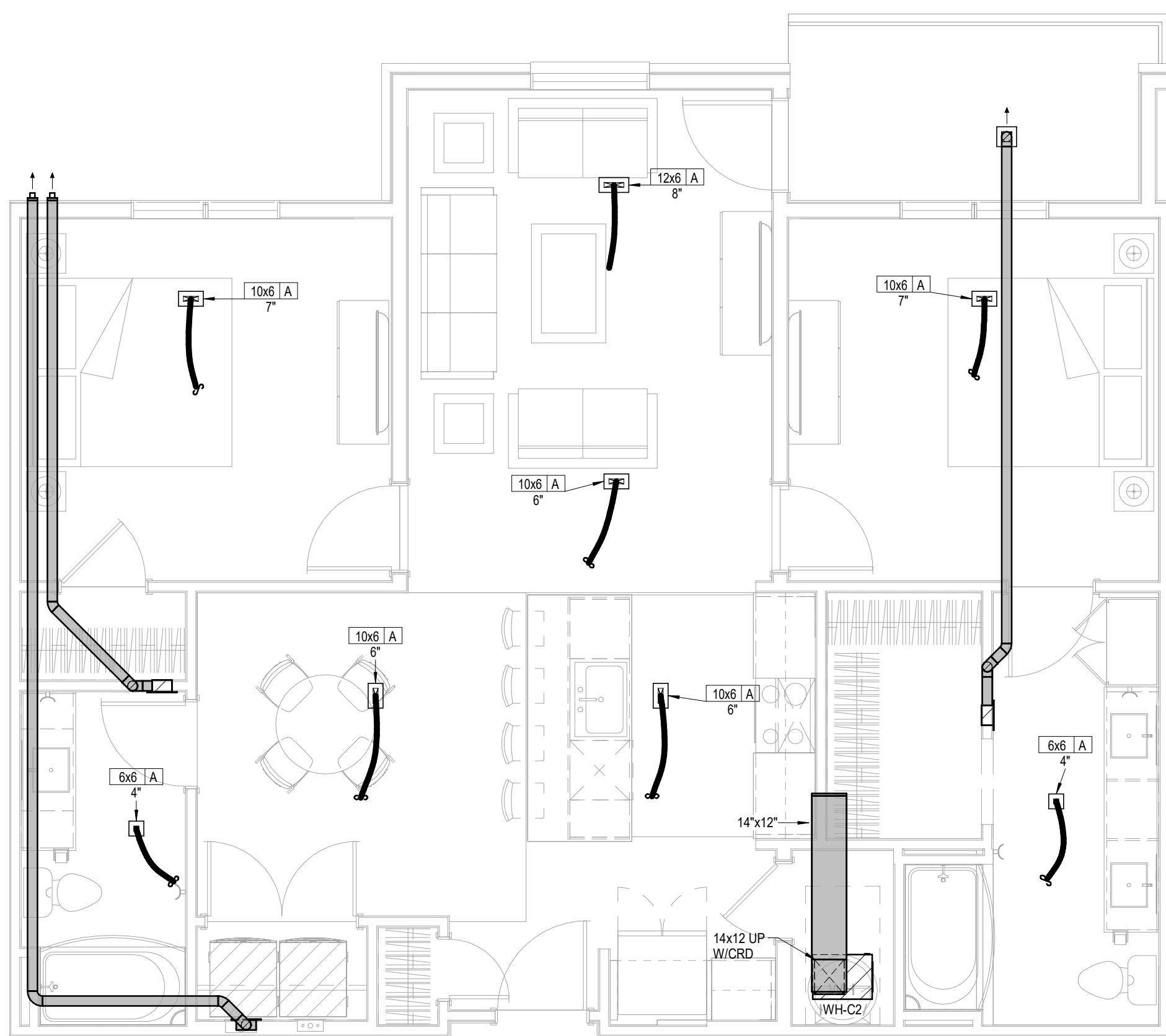
- UNIT MECHANICAL NOTES:
1. ALL TYPE 'A' SUPPLY REGISTERS HAVE A UL555C CEILING RADIATION DAMPER UNLESS NOTED OTHERWISE. PROVIDE CRD UNLESS NOTED OTHERWISE AT AHU DISCHARGE AND RATED MEMBRANE.
 2. PROVIDE MANUFACTURER REQUIRED CLEARANCES FOR AHUS AND WATER HEATERS.
 3. ALL CONDENSING UNITS ARE ROOF MOUNTED.
 4. MANUFACTURER SHALL PROVIDE ANY ACCESSORIES REQUIRED FOR PROPER OPERATION INCLUDING LONG LINE SET.
 5. PROVIDE GUY GRAY MODEL DB350/DB3D DRYER VENT BOX AT ALL DRYER LOCATIONS. NOTE TOP FLOOR SHALL ROUTE THRU FLOOR BELOW.
 6. GENERALLY CENTER GRILLES/REGISTERS IN WALLS, OVER DOORS, ALIGN WITH WINDOWS, ETC.
 7. MAINTAIN 3 FT. FROM EXHAUST/VENTS TO BUILDING OPENINGS.
 8. ROUTE AHU CONDENSATE INDIRECT TO FLOOR DRAINS IN AHU CLOSETS.
 9. EXHAUST FANS AT TOP FLOOR MAY VENT TO ROOF.
 10. SE RA GRILLE AT HVAC CLOSET AS CRD ACCESS. POSITION CORRECTLY. SIZE MAY VARY WITH SAME AREA.
 11. TOP FLOOR DUCTS SHALL BE BELOW THE ATTIC. INSULATION SHALL BE R-8 INSULATED AND SEALED TO PREVENT CONDENSATION.
 12. TOP FLOOR EXHAUST VENT TO ROUTE THROUGH ROOF OR SIDEWALL OF HIGH ROOF TRANSITION.
 13. DRAIN AHUs AND DSS TO FLOOR DRAIN, JAN. SINK OR SINK TAILPIECE.



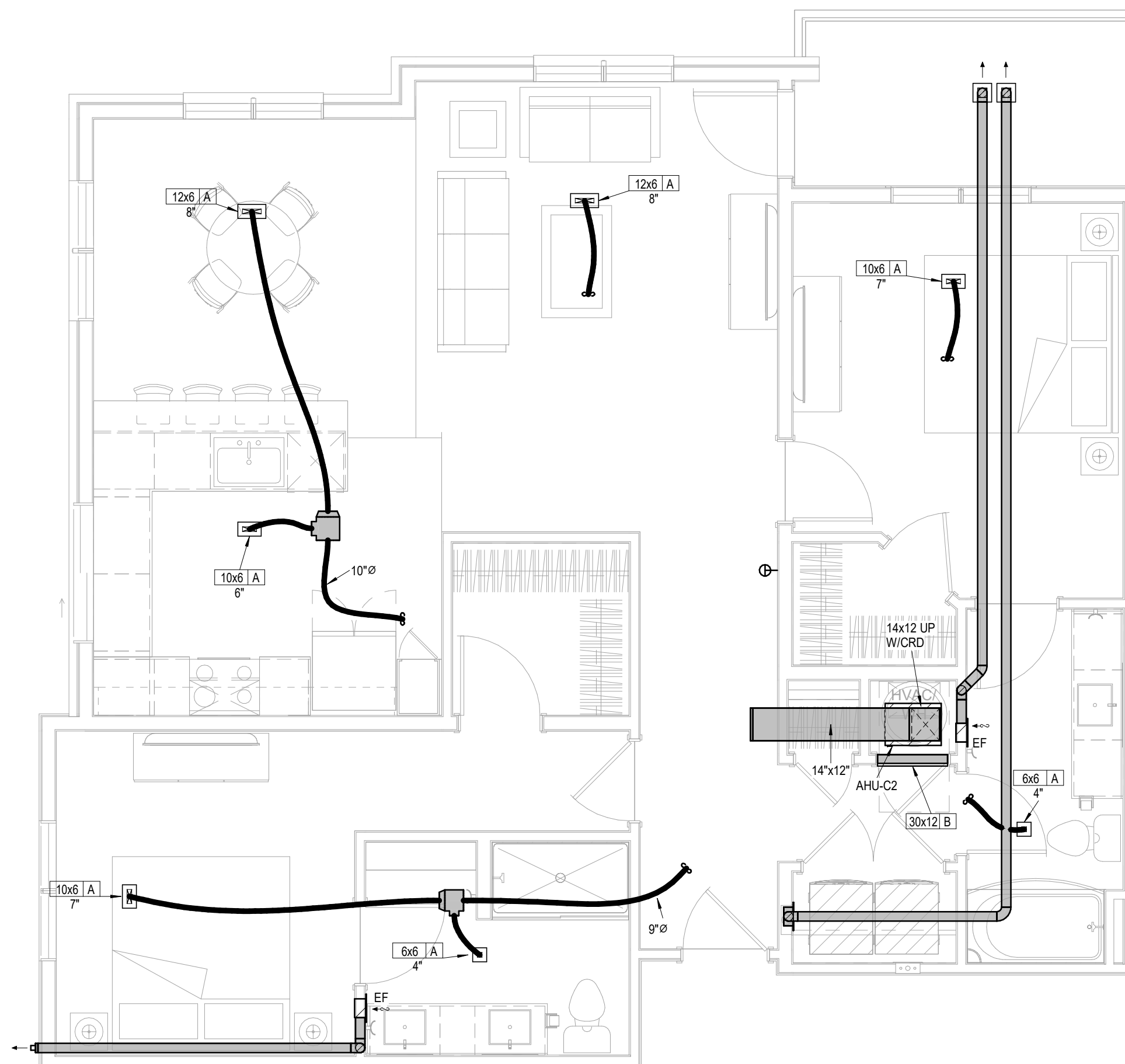
1 UNIT C1
HVAC
1/4" = 1'-0"
C1 ALT SIMILAR



3 UNIT C1 ALT 2
HVAC
1/4" = 1'-0"

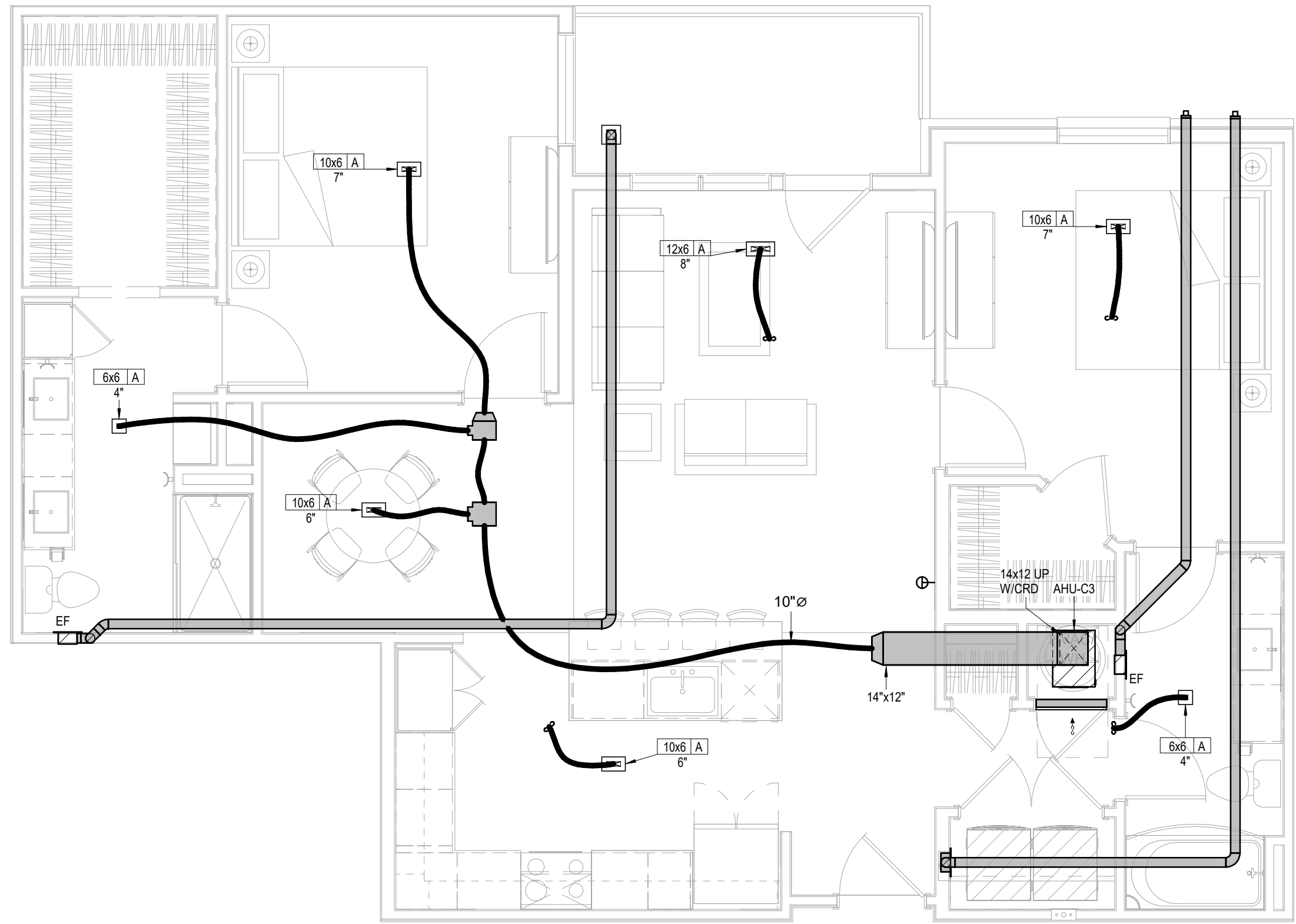


4 UNIT C1 TYPE A
HVAC
1/4" = 1'-0"

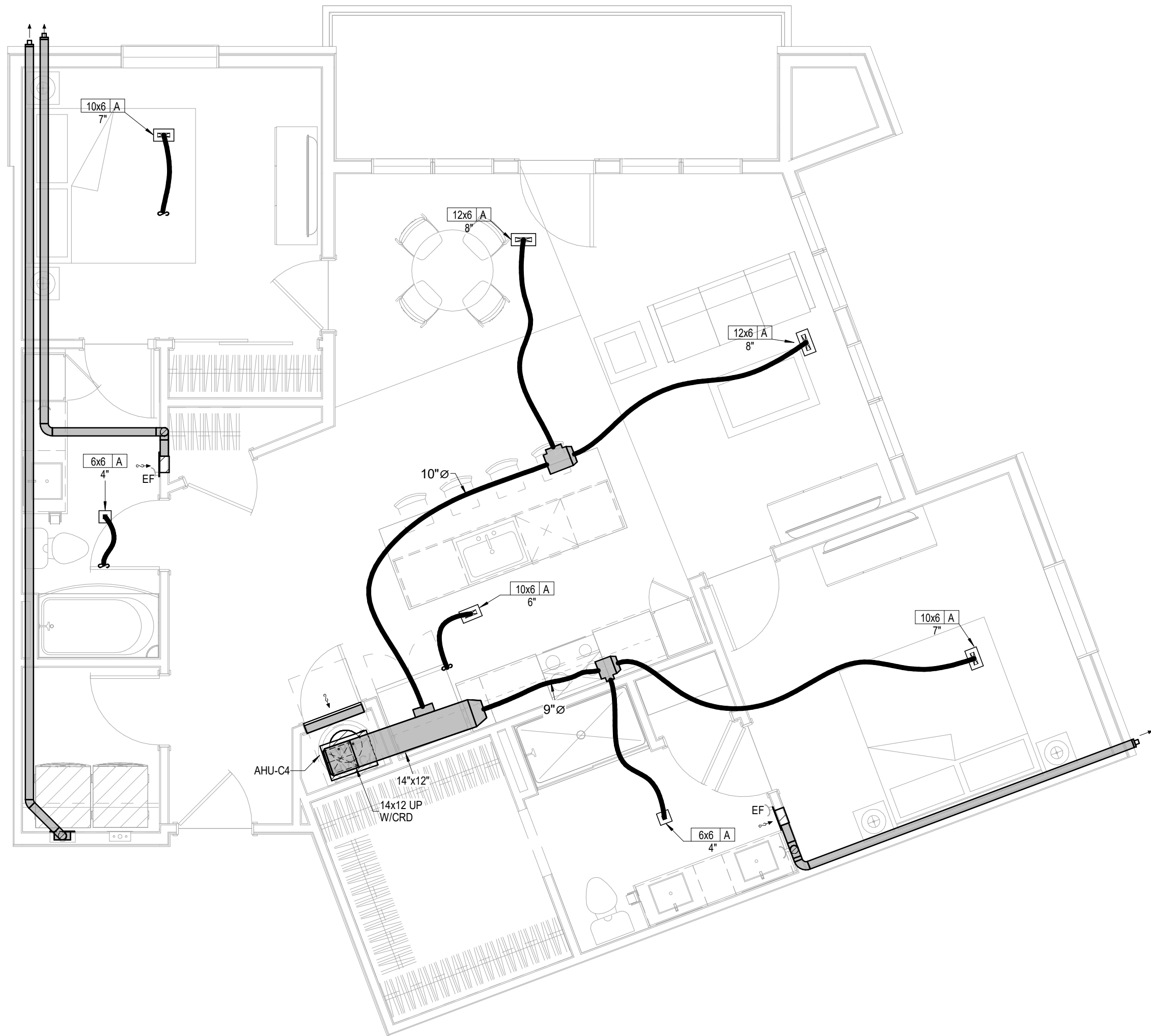


5 UNIT C2
HVAC
1/4" = 1'-0"

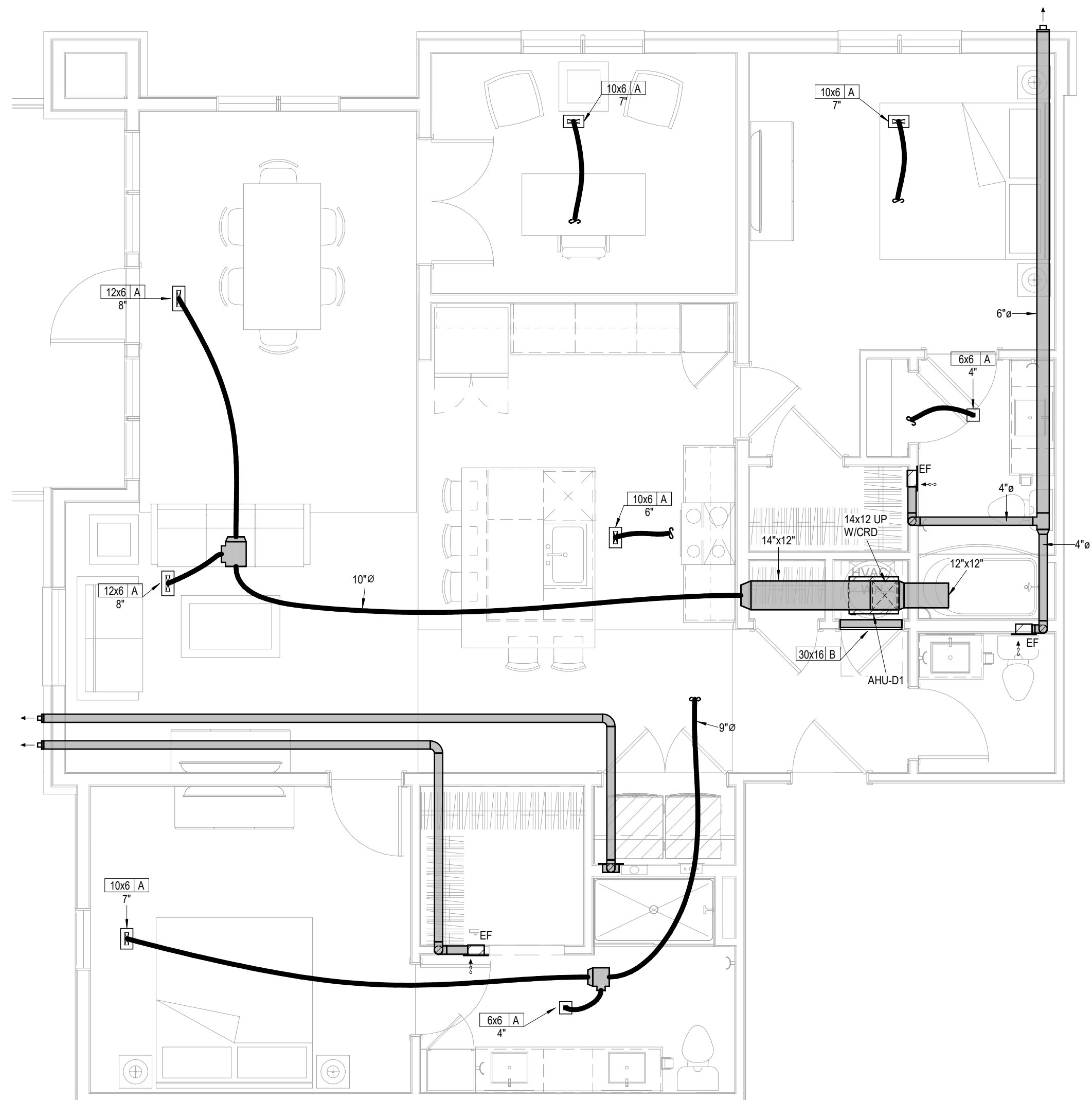
- UNIT MECHANICAL NOTES:
1. ALL TYPE "A" SUPPLY REGISTERS HAVE A UL555C CEILING RADIATION DAMPER UNLESS NOTED OTHERWISE. PROVIDE CRD UNLESS NOTED OTHERWISE AT AHU DISCHARGE AND RATED MEMBRANE.
 2. PROVIDE MANUFACTURER REQUIRED CLEARANCES FOR AHUS AND WATER HEATERS.
 3. ALL CONDENSING UNITS ARE ROOF MOUNTED.
 4. MANUFACTURER SHALL PROVIDE ANY ACCESSORIES REQUIRED FOR PROPER OPERATION INCLUDING LONG LINE SET.
 5. PROVIDE GUY GRAY MODEL DB350/DB30 DRYER VENT BOX AT ALL DRYER LOCATIONS. NOTE TOP FLOOR SHALL ROUTE THRU FLOOR BELOW.
 6. GENERALLY CENTER GRILLES/REGISTERS IN WALLS, OVER DOORS, ALIGN WITH WINDOWS, ETC.
 7. MAINTAIN 3 FT. FROM EXHAUST/VENTS TO BUILDING OPENINGS.
 8. ROUTE AHU CONDENSATE INDIRECT TO FLOOR DRAINS IN AHU CLOSETS.
 9. EXHAUST FANS AT TOP FLOOR MAY VENT TO ROOF.
 10. SE RA GRILLE AT HVAC CLOSET AS CRD ACCESS. POSITION CORRECTLY. SIZE MAY VARY WITH SAME AREA.
 11. TOP FLOOR DUCTS SHALL BE BELOW THE ATTIC INSULATION SHALL BE R-8 INSULATED AND SEALED TO PREVENT CONDENSATION.
 12. TOP FLOOR EXHAUST VENT TO ROUTE THROUGH ROOF OR SIDEWALL OF HIGH ROOF TRANSITION.
 13. DRAIN AHUS AND DSS TO FLOOR DRAIN, JAN. SINK OR SINK TAILPIECE.



1 **UNIT C3**
HVAC
1/4" = 1'-0"

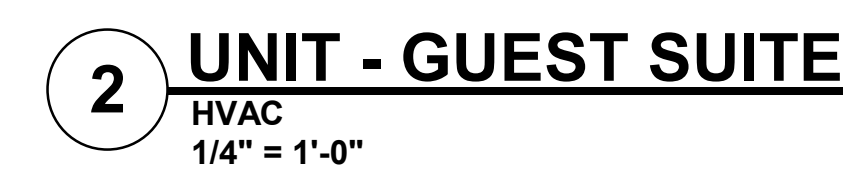
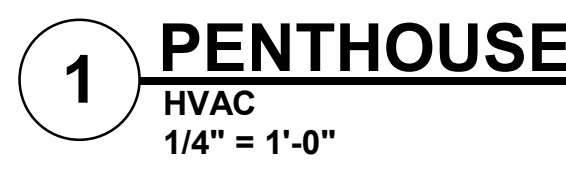


2 **UNIT C4**
HVAC
1/4" = 1'-0"



3 **UNIT D1**
HVAC
1/4" = 1'-0"
D1 ALT 2 SIMILAR

- UNIT MECHANICAL NOTES:**
1. ALL TYPE "A" SUPPLY REGISTERS HAVE A UL555C CEILING RADIATION DAMPER UNLESS NOTED OTHERWISE. PROVIDE CRD UNLESS NOTED OTHERWISE AT AHU DISCHARGE AND RATED MEMBRANE.
 2. PROVIDE MANUFACTURER REQUIRED CLEARANCES FOR AHUS AND WATER HEATERS.
 3. ALL CONDENSING UNITS ARE ROOF MOUNTED.
 4. MANUFACTURER SHALL PROVIDE ANY ACCESSORIES REQUIRED FOR PROPER OPERATION INCLUDING LONG LINE SET.
 5. PROVIDE GUY GRAY MODEL DB350/DB30 DRYER VENT BOX AT ALL DRYER LOCATIONS. NOTE TOP FLOOR SHALL ROUTE THRU FLOOR BELOW.
 6. GENERALLY CENTER GRILLES/REGISTERS IN WALLS, OVER DOORS, ALIGN WITH WINDOWS, ETC.
 7. MAINTAIN 3 FT. FROM EXHAUST/VENTS TO BUILDING OPENINGS.
 8. ROUTE AHU CONDENSATE INDIRECT TO FLOOR DRAINS IN AHU CLOSETS.
 9. EXHAUST FANS AT TOP FLOOR MAY VENT TO ROOF.
 10. SE RA GRILLE AT HVAC CLOSET AS CRD ACCESS. POSITION CORRECTLY, SIZE MAY VARY WITH SAME AREA.
 11. TOP FLOOR DUCTS SHALL BE BELOW THE ATTIC INSULATION SHALL BE R-8 INSULATED AND SEALED TO PREVENT CONDENSATION.
 12. TOP FLOOR EXHAUST VENT TO ROUTE THROUGH ROOF OR SIDEWALL OF HIGH ROOF TRANSITION.
 13. DRAIN AHUS AND DSS TO FLOOR DRAIN, JAN. SINK OR SINK TAILPIECE.



- 
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A NEW RESIDENTIAL COMMUNITY AT:

TRILOGY

800 & 810 NW WARD RD. | LEE'S SUMMIT, MO

DRAWING RELEASE LOG
● 03.15.2023 - PERMIT SUBMITTAL

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& Associates P.A.
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Overland Park, Kansas 66210

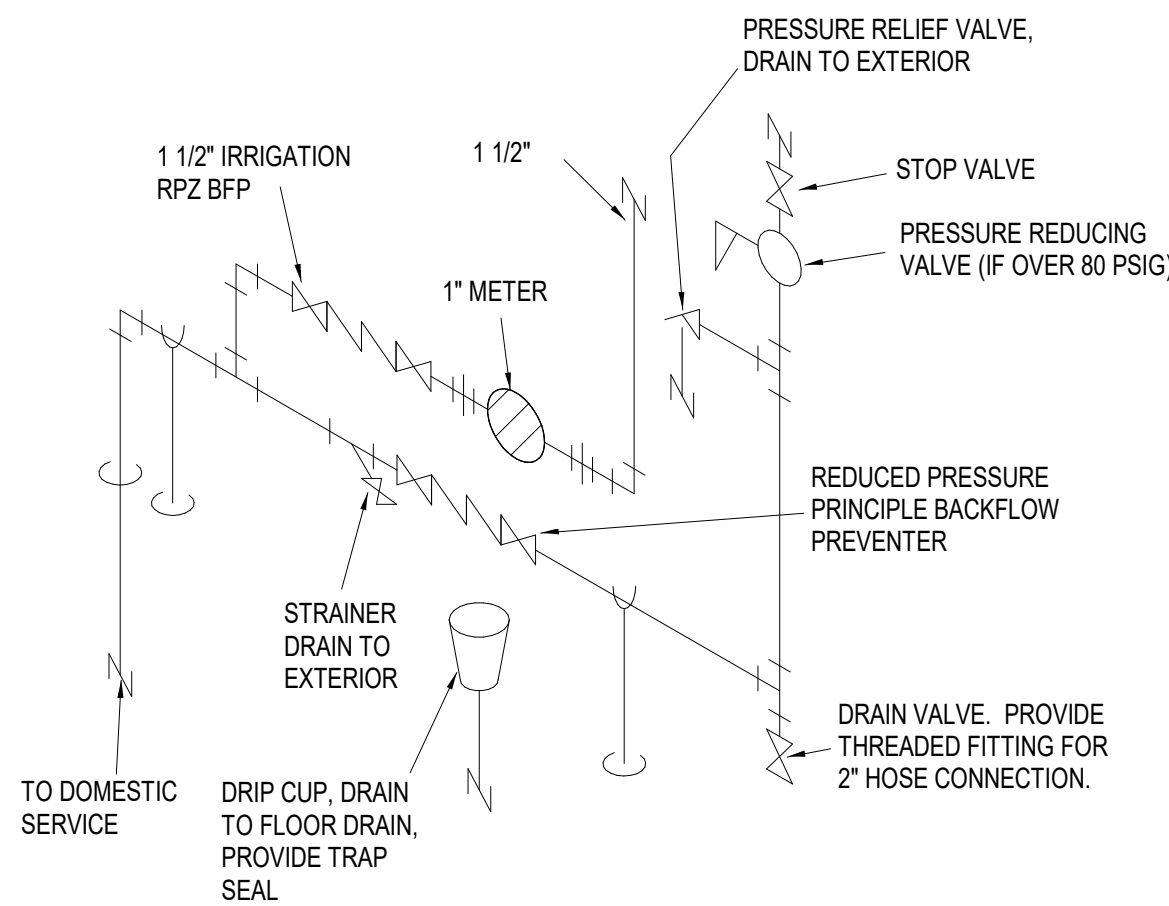
Telephone: (785) 233-3232
Email: lsapa@lsapa.com

LSA PROJECT NO. 2204061

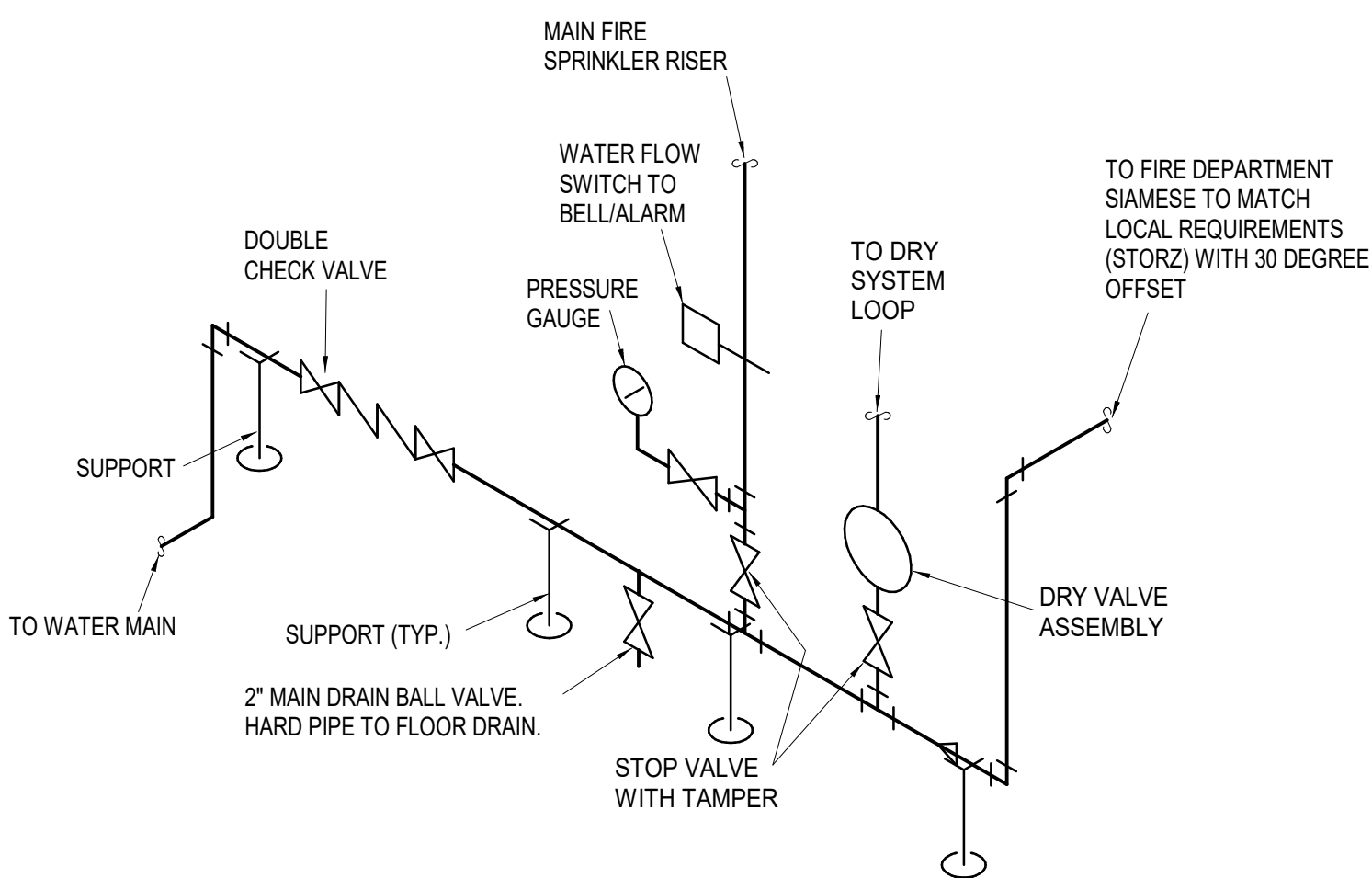
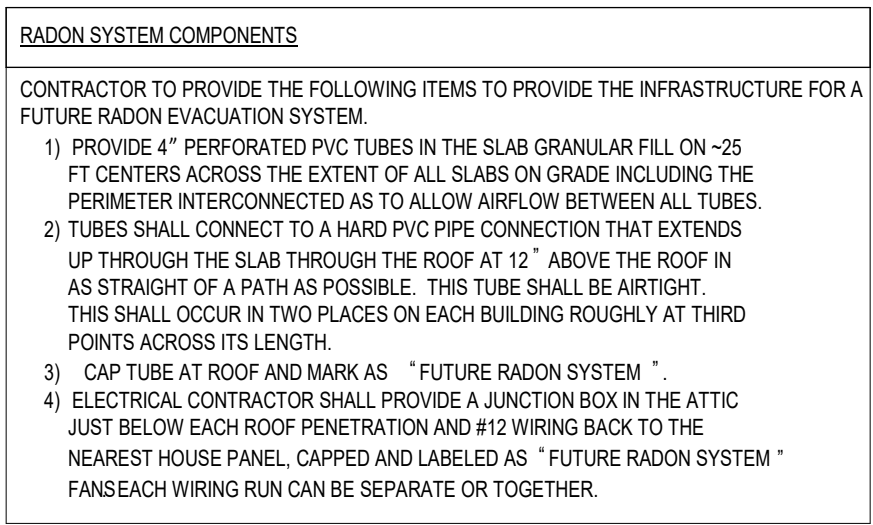
JOB NO. **705921** DATE **03.15.2023**
DRAWN BY **LSA CAD**
4/11/2023
CITY COMMENTS
SHEET NAME
UNIT PLANS - HVAC

SHEET NO

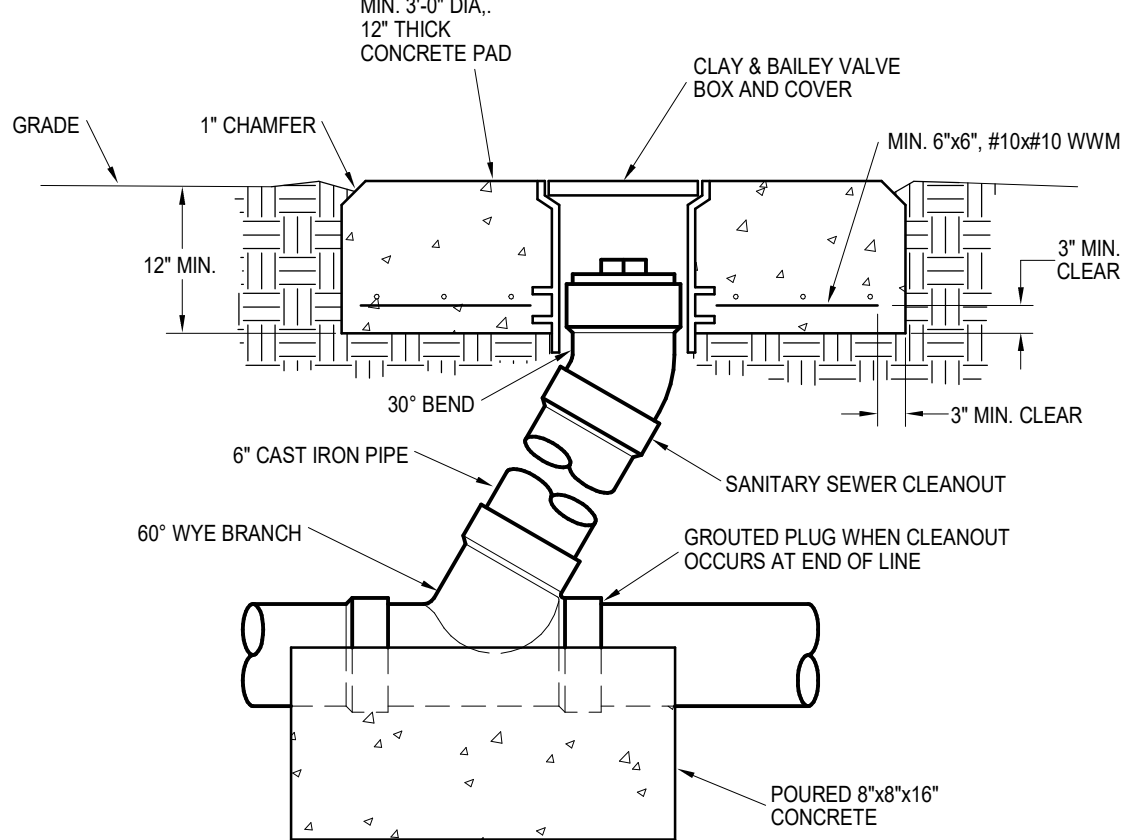
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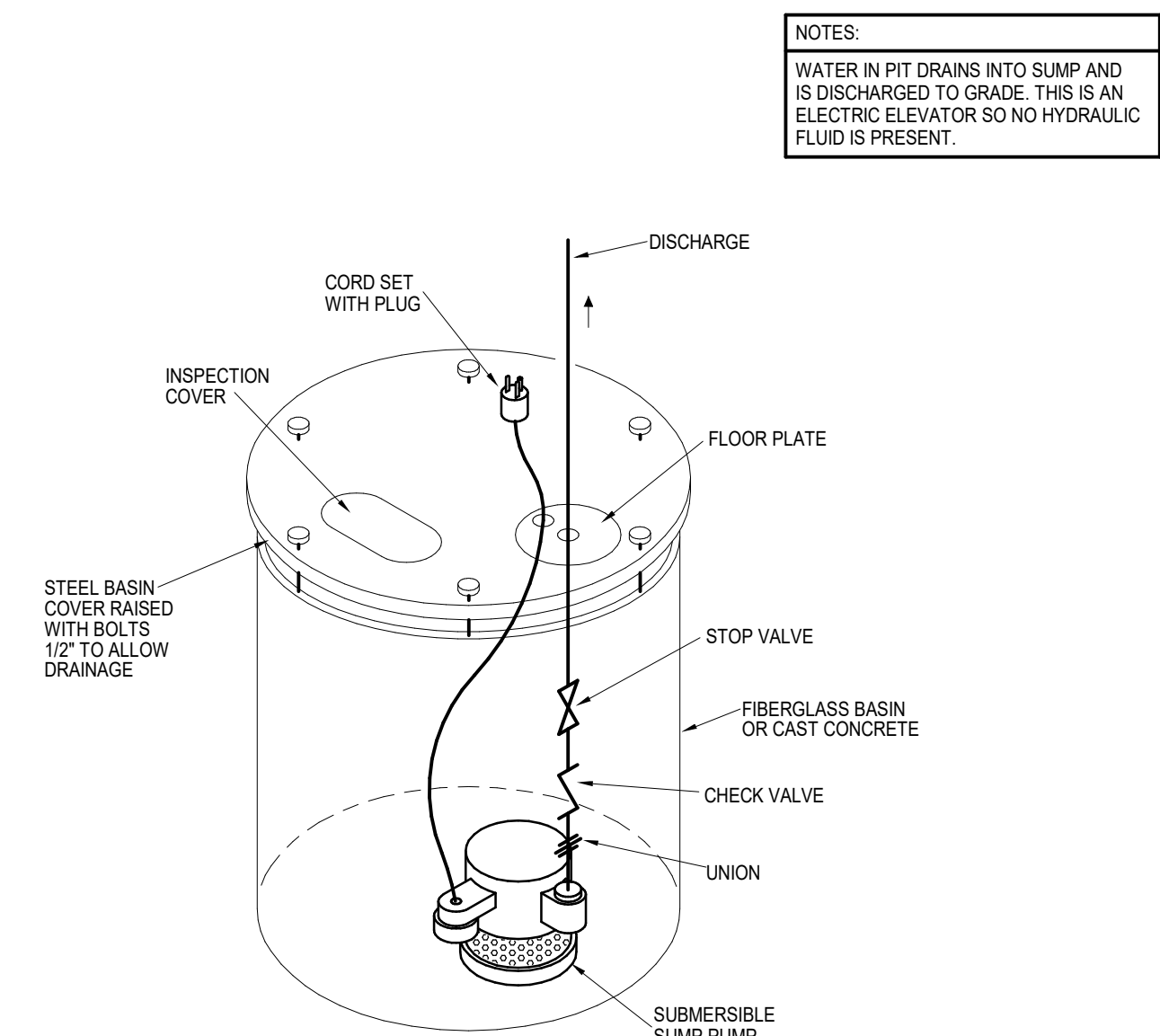
1 DOMESTIC WATER RISER
NOT TO SCALE



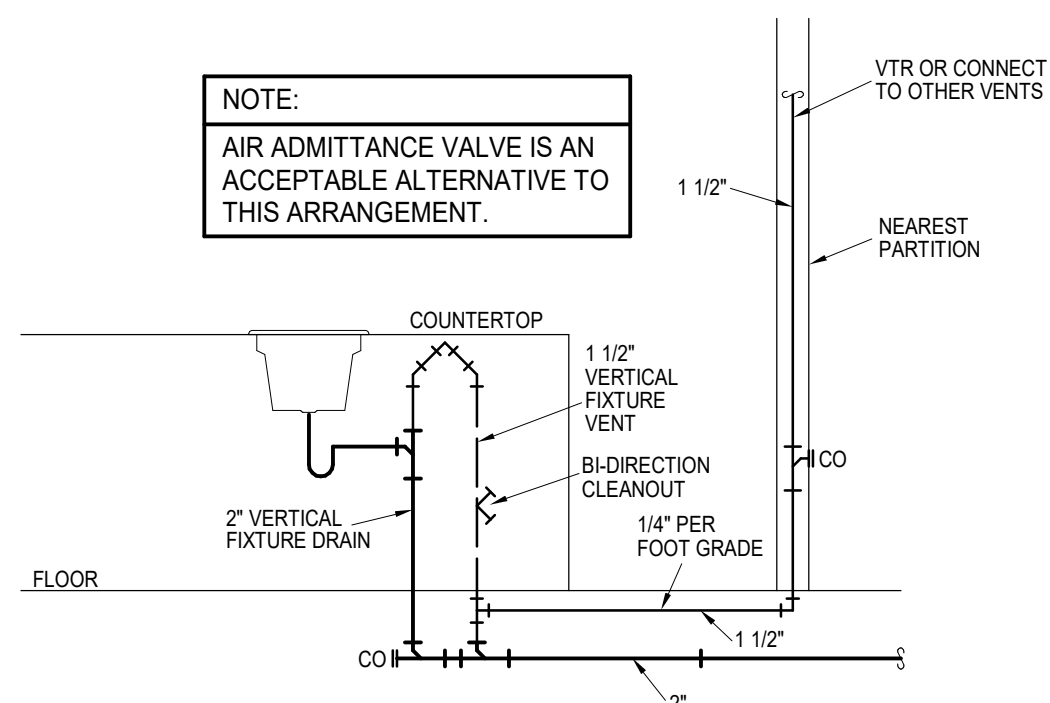
2 FIRE SUPPRESSION ENTRANCE DETAIL
NOT TO SCALE



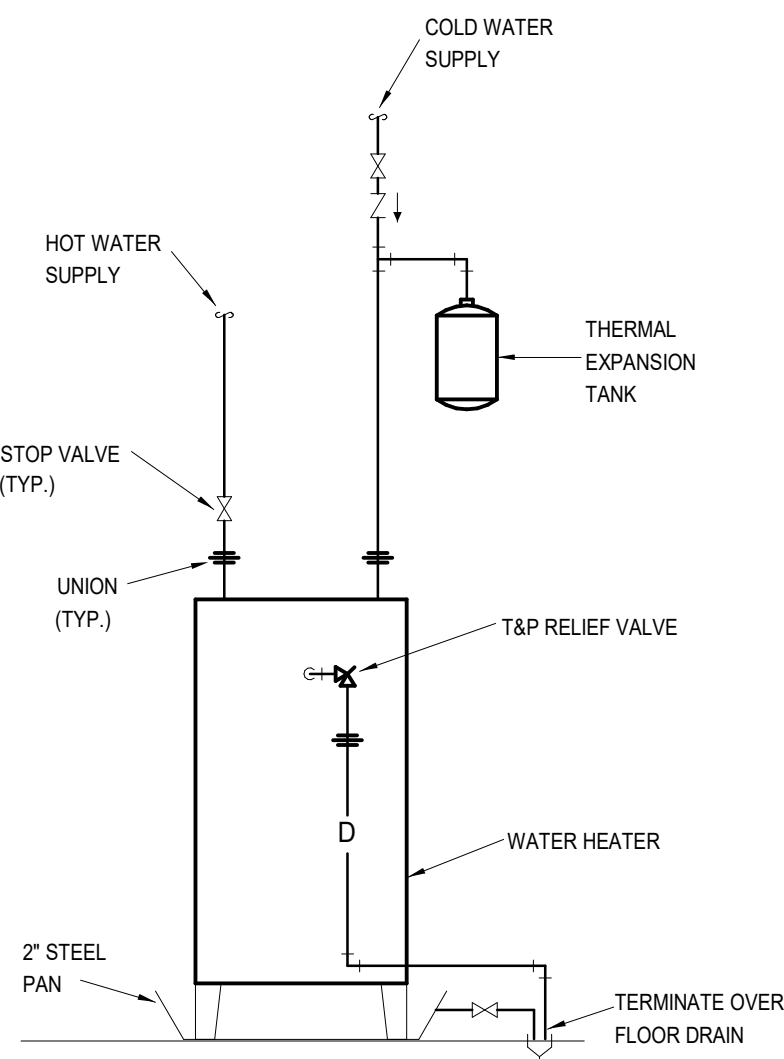
3 FLUSH GRADE CLEANOUT DETAIL
NOT TO SCALE



4 ELEVATOR SUMP PUMP DETAIL
NOT TO SCALE

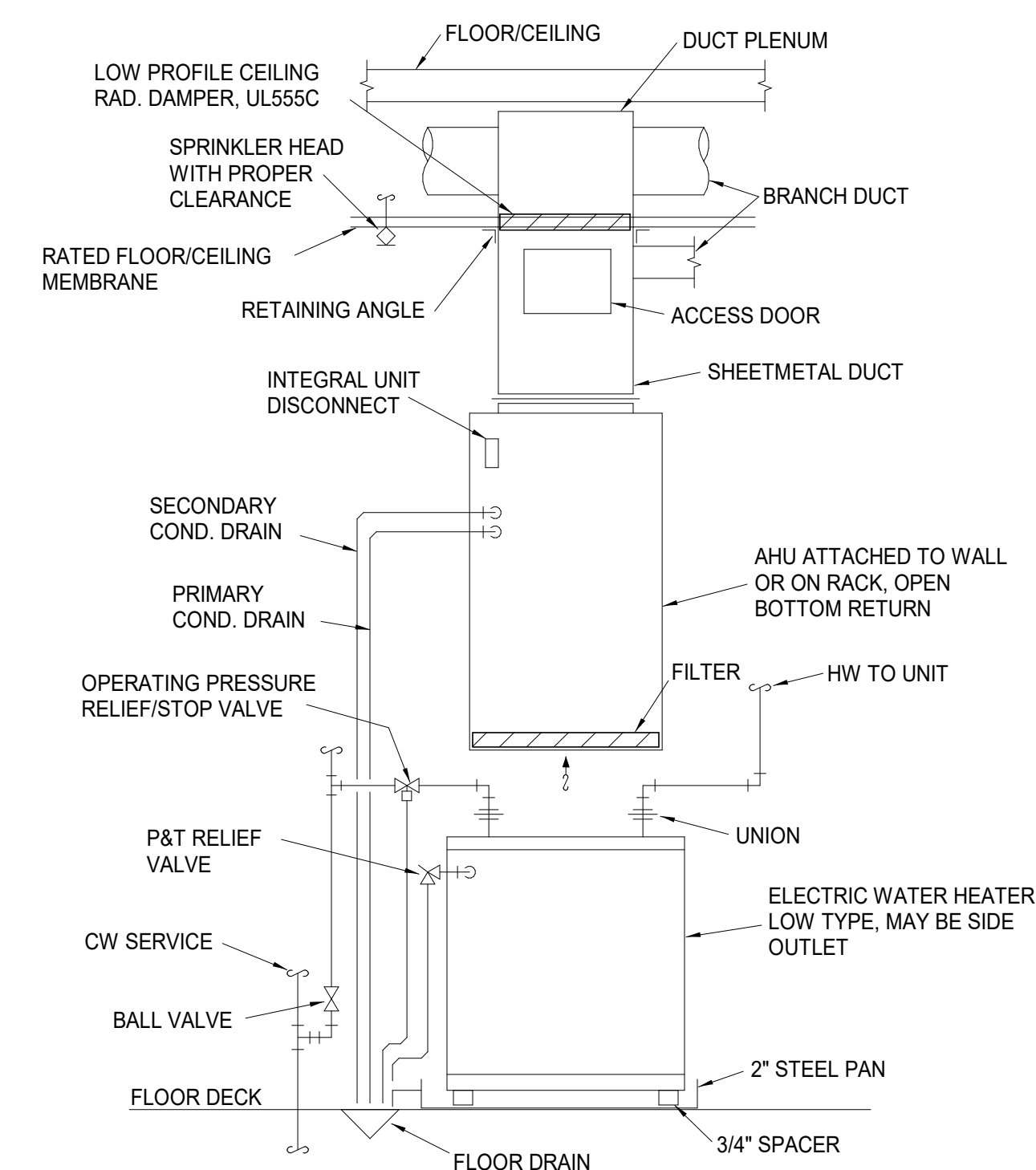


5 ISLAND VENT DETAIL
NOT TO SCALE

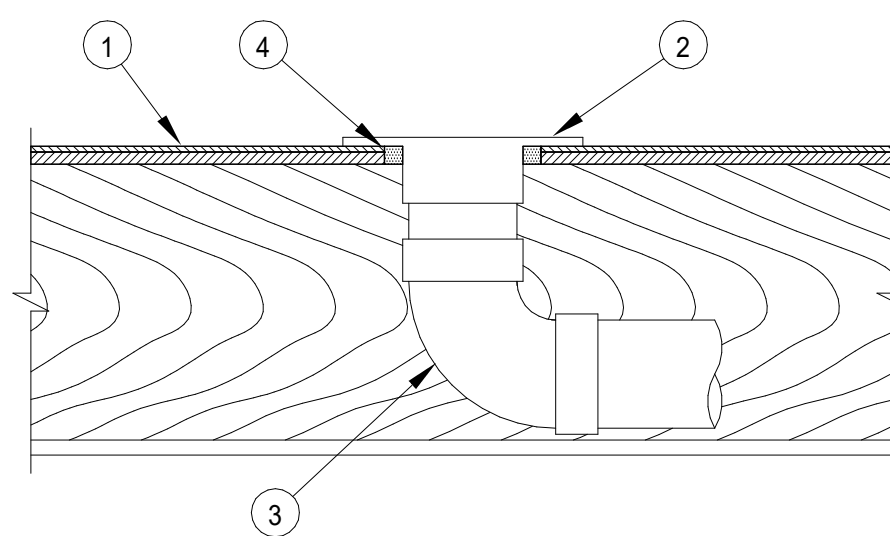


6 ELECTRIC WATER HEATER DETAIL WITH EXP TANK
NOT TO SCALE

- NOTES:**
1. Floor-Ceiling Assembly The fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction details of the floor-ceiling assembly are summarized below:
A. Flooring System Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Max diam of floor opening is 3 in.
B. Wood Joists Nom 2 by 10 in. lumber joists spaced 16 in. OC with nom 1 by 3 in. lumber bridging and with ends firestopped. As an alternate to lumber joists, nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required with ends firestopped.
C. Furring Channels (Not shown) - Resilient galv steel furring installed perpendicular to wood joists (Item 1B) between wallboard (Item 1D) and wood joists as required in the individual Floor-Ceiling Design.
D. Gypsum Board* Nom 4 ft wide by 5/8 in. thick as specified in the individual Floor-Ceiling Design.
 2. Chase Wall The through penetrant (Item 3) shall be routed through a 1 hr fire-rated single, double or staggered wood stud/gypsum wallboard chase wall constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs Nom 2 by 4 in. lumber studs.
B. Sole Plate Nom 2 by 4 in. lumber plates.
C. Top Plate The double top plate shall consist of two nom 2 by 4 in. lumber plates. Max diam of opening is 3 in.
D. Gypsum Board* Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Design.
 3. Through - Penetrants One nonmetallic pipe to be installed either eccentrically or concentrically within the firestop system. The annular space between the through penetrant and the periphery of the opening shall be a min 0 in. (point contact) to a max of 3/8 in. Pipe to be rigidly supported on both sides of the floor-ceiling assembly. The following types and sizes of nonmetallic pipes may be used.
A. Polyvinyl Chloride (PVC) Pipe Nom 2 in. diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
B. Acrylonitrile Butadiene Styrene (ABS) Pipe Nom 2 in. diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
C. Chlorinated Polyvinyl Chloride (CPVC) Pipe Nom 2 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 4. Fill, Void or Cavity Material* -- Sealant Min 3/4 in. thickness of fill material applied within the annulus, flush with top surface of floor and flush with bottom surface of lower top plate.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS - ONE Sealant
*Bearing the UL Classification Marking



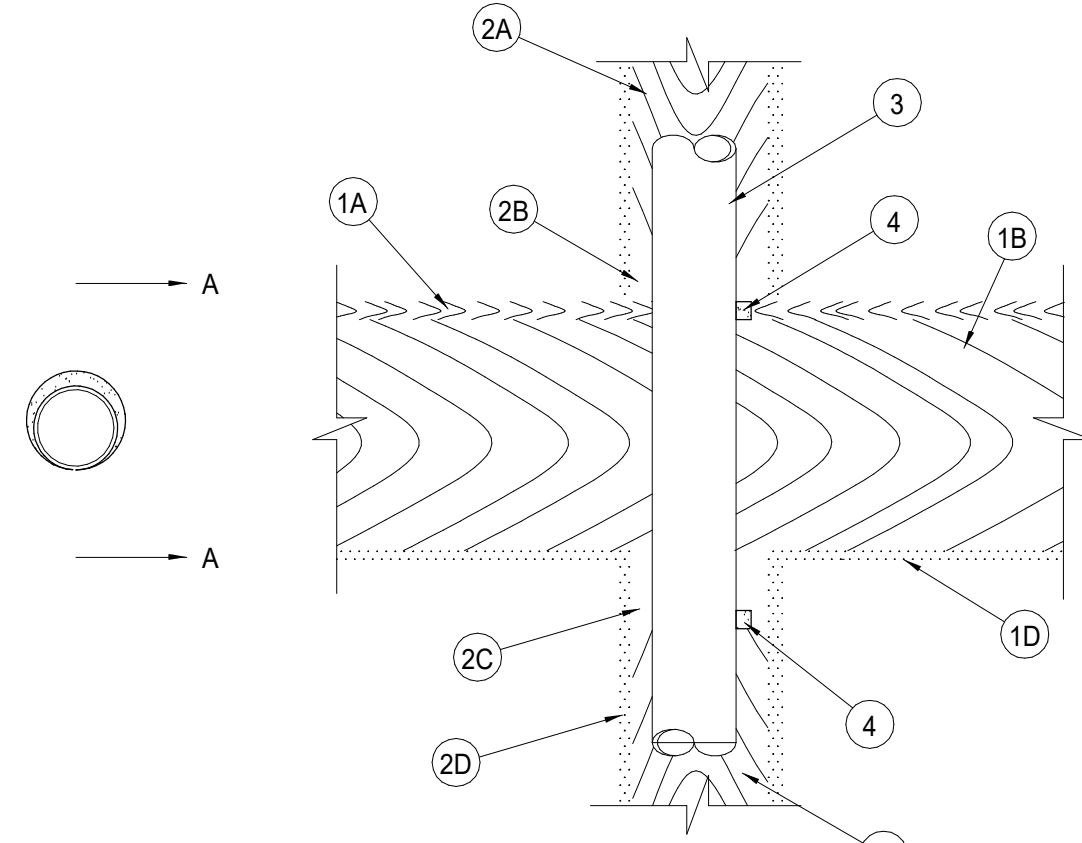
7 APARTMENT AHU/WATER HEATER
NOT TO SCALE



8 FIRE RATED PENETRATION DETAIL
NO SCALE

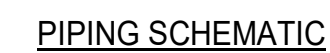
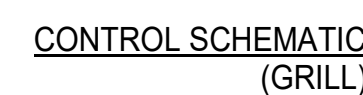
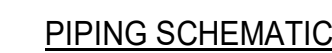
- NOTES:**
1. Floor-Ceiling Assembly The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:
A. Flooring System Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 5 in.
B. Wood Joist* Nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped.
C. Gypsum Board* Nom 5/8 in. thick, 4 ft wide as specified in the individual Floor-Ceiling Design.
 2. Closet Flange Acrylonitrile butadiene styrene (ABS) or polyvinyl chloride (PVC) closet stub sized to accommodate drain pipe. Closet flange installed over drain piping within floor opening with flange secured to plywood floor with steel screws. Diam of circular opening through flooring (Item 1A) to be max 1/2 in. larger than outside diam of closet flange.
 3. Drain Piping Nom 4 in. diam (on smaller) Schedule 40 acrylonitrile butadiene styrene (ABS) or polyvinyl chloride (PVC) drain pipe and 90 degree elbow for use in vented (drain, waste or vent) piping systems. Pipe installed concentrically within firestop system.
 4. Fill, Void or Cavity Materials*--Sealant Min 3/4 in. thickness of fill material applied within the annulus, flush with the bottom surface of floor.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-ONE Sealant
 5. Water Closet (Not Shown)--Floor mounted vitreous china water closet.
*Bearing the UL Classification Mark

SYSTEM FC-2203



9 FIRE RATED PENETRATION DETAIL
NO SCALE

SYSTEM FC-2142





Ceiling Radiation Damper
3 Hour Rated
For Use in Static Systems
Models 5680 Submittal

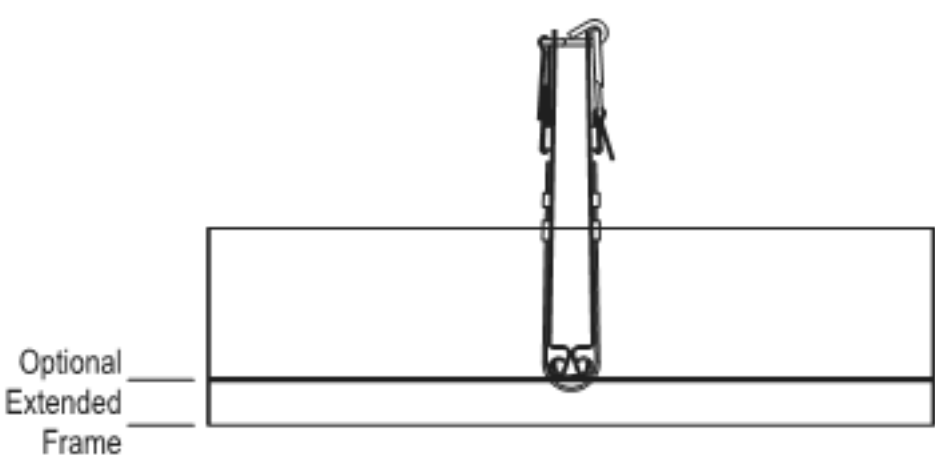
Filename: Prefco Submittal 5680 Rev 27/12/14

Application

The Model 5680 provides fire and heat radiation protection of HVAC penetrations in any floor/ceiling and roof/ceiling assemblies with restrained or unrestrained ratings of 3 hours or less. Standard fire dampers (1 1/2 & 3 hr.) do not provide the required protection.

Standard Construction

- **Frame**
21 GA Galvanized Steel
- **Blades - Full Length Hinge**
21 GA Galvanized Steel
- **Closure Springs**
Stainless Steel
- **Fusible Link - UL-33**
UL Listed 212F (standard) 165 F (optional)
McCabe Link (optional)
- **Insulation (blade)**
Ceramic Fiber



Standard Sizes (duct)	
Minimum	4 1/2" x 4 1/2"
Maximum	24" wide or 30" long - 576 sq. in. total max.

NOTES:

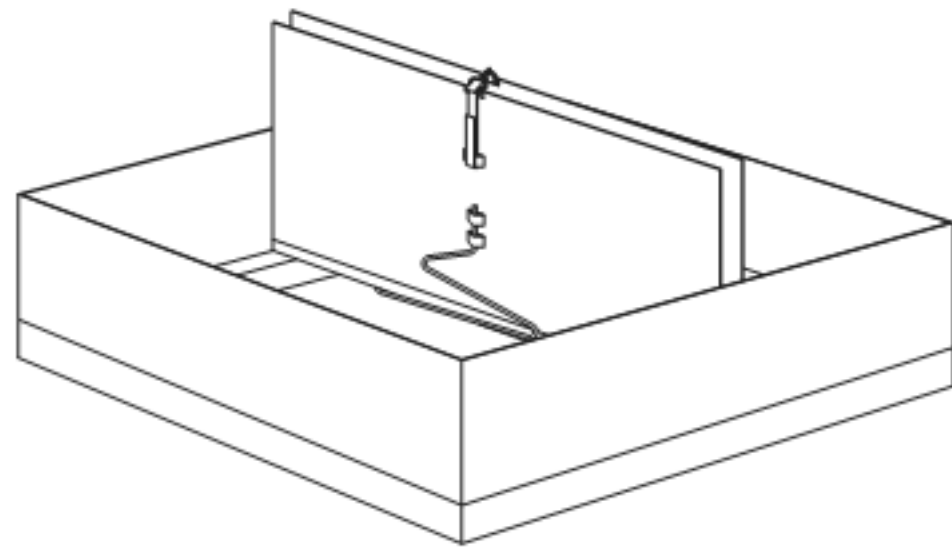
- Dampers are fabricated 3/16" under ordered diameter for clearance
- Approved for use in any UL Fire Resistance Directory Series Designs
- For 2 hour rating, refer to Model 5660

Model 5680 meets or complies with the following as a ceiling radiation damper.

- **NFPA Standards**
- **All major building codes, including BOCA, ICBO/UBC, SBCCI & ICC International Code**

- UL 555C Listing 3 Hour - File #R7365
- CA State Fire Marshall - #3225-1518-103

High Free Area Design
Optional Volume Control Device (5965)

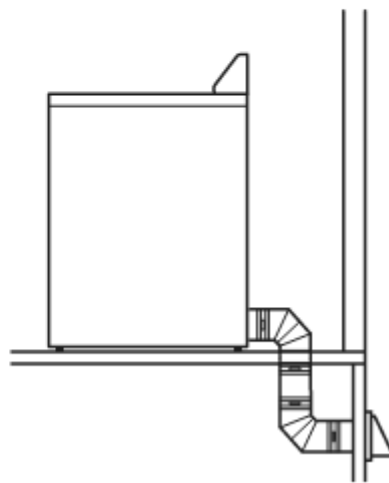


A dim. is always width of blades

TOP LOAD DRYER

Special provisions for mobile home installations:

The exhaust vent must be securely fastened to a noncombustible portion of the mobile home structure and must not terminate beneath the mobile home. Terminate the exhaust vent outside.



Determine vent path:

- Select route that will provide straightest and most direct path outdoors.
- Plan installation to use fewest number of elbows and turns.
- When using elbows or making turns, allow as much room as possible.
- Bend vent gradually to avoid kinking.
- Use as few 90° turns as possible.

Determine vent length and elbows needed for best drying performance:

- Use following "Vent System Chart" to determine type of vent material and hood combinations acceptable to use.
- NOTE:** Do not use vent runs longer than those specified in "Vent System Chart." Exhaust systems longer than those specified will:
 - Shorten life of dryer.
 - Reduce performance, resulting in longer drying times and increased energy usage.

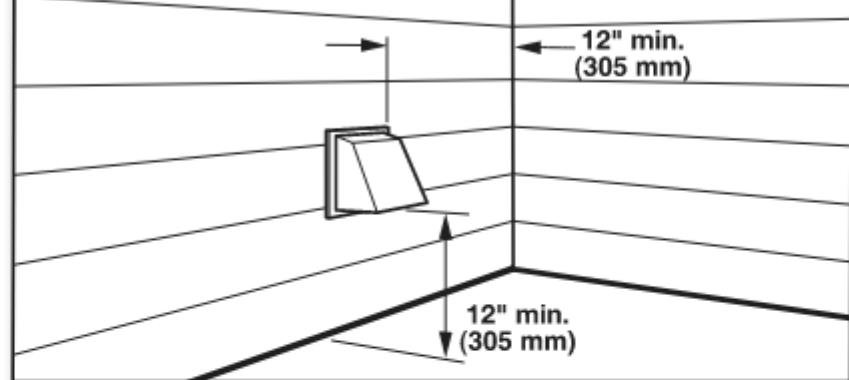
The "Vent System Chart" provides venting requirements that will help achieve best drying performance.

Vent System Chart			
Number of 90° turns or elbows	Type of vent	Box/louvered hoods	Angled hoods
0	Rigid metal	64 ft. (20 m)	58 ft. (17.7 m)
1	Rigid metal	54 ft. (16.5 m)	48 ft. (14.6 m)
2	Rigid metal	44 ft. (13.4 m)	38 ft. (11.6 m)
3	Rigid metal	35 ft. (10.7 m)	29 ft. (8.8 m)
4	Rigid metal	27 ft. (8.2 m)	21 ft. (6.4 m)

Vent System Chart (29" Wide Long Vent WED/WGD487d and WED/WGD4975 Models Only)		
Number of 90° turns or elbows	Type of vent	Box/louvered or angled hoods
0	Rigid metal	160 ft. (48.8 m)
1	Rigid metal	150 ft. (45.7 m)
2	Rigid metal	140 ft. (42.7 m)
3	Rigid metal	130 ft. (39.6 m)
4	Rigid metal	120 ft. (36.6 m)
5	Rigid metal	110 ft. (33.5 m)

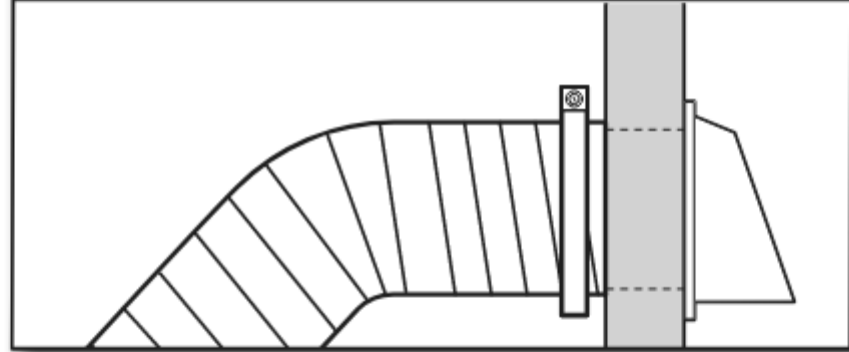
INSTALL VENT SYSTEM

1. Install exhaust hood

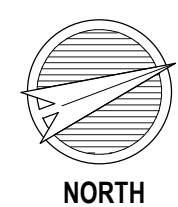


Install exhaust hood and use caulking compound to seal exterior wall opening around exhaust hood.

2. Connect vent to exhaust hood



Vent must fit over the exhaust hood. Secure vent to exhaust hood with 4" (102 mm) clamp. Run vent to dryer location using straightest path possible. Avoid 90° turns. Use clamps to seal all joints. Do not use duct tape, screws, or other fastening devices that extend into interior of vent to secure vent, because they can catch lint.



1 1ST FLOOR - SEGMENT A
ELECTRICAL
1/8" = 1'-0"

- 
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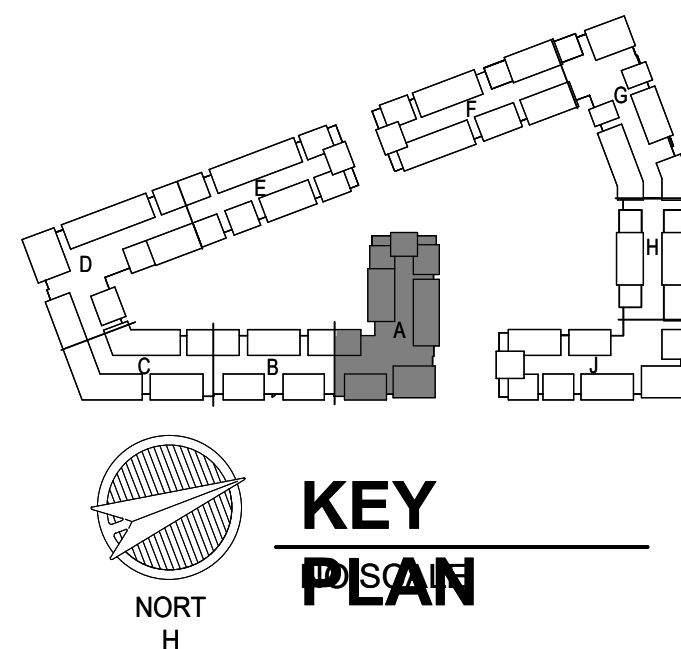
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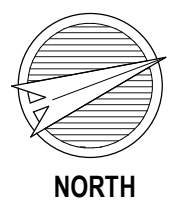
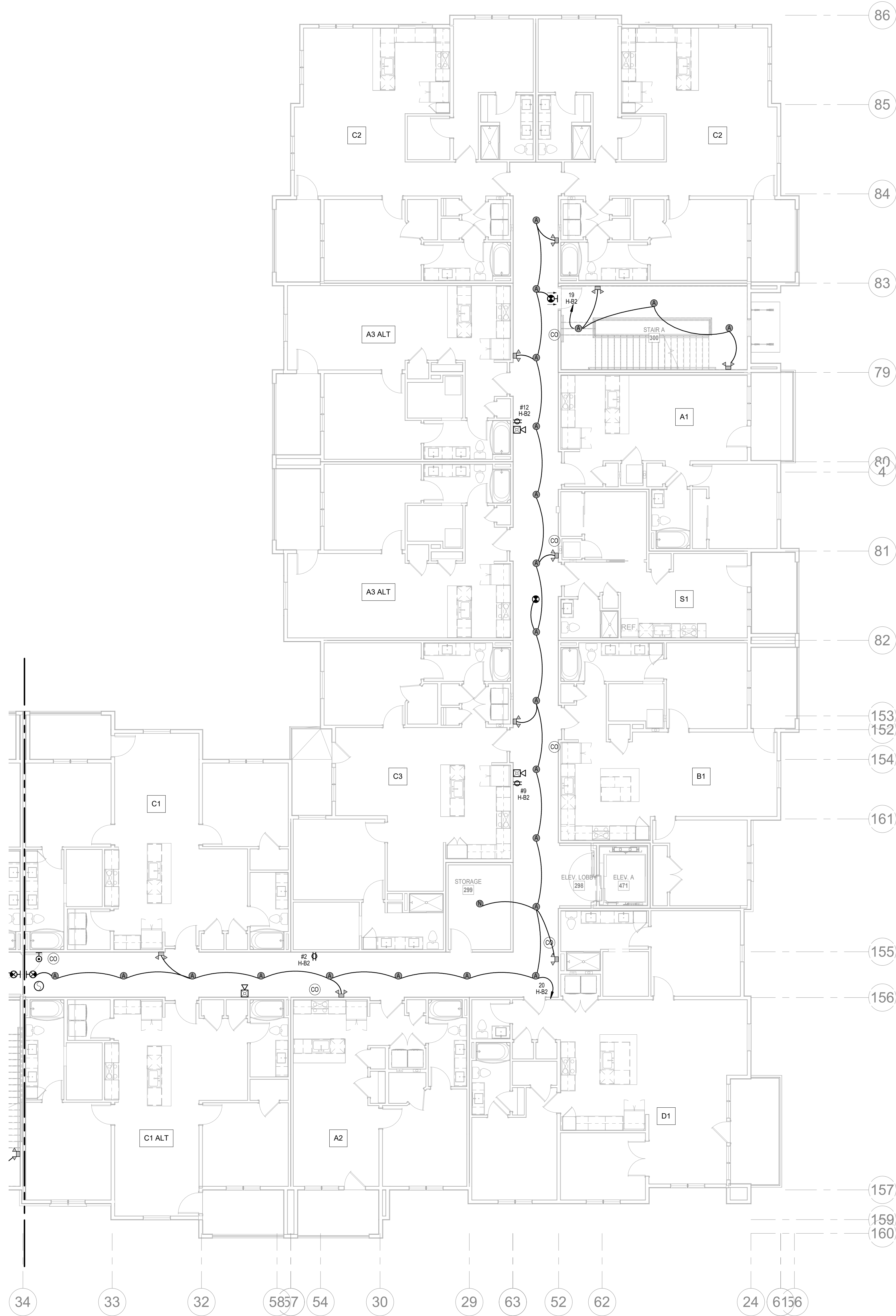
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SHEET NAME

**SEGMENT A - 1ST FLOOR -
ELECTRICAL**

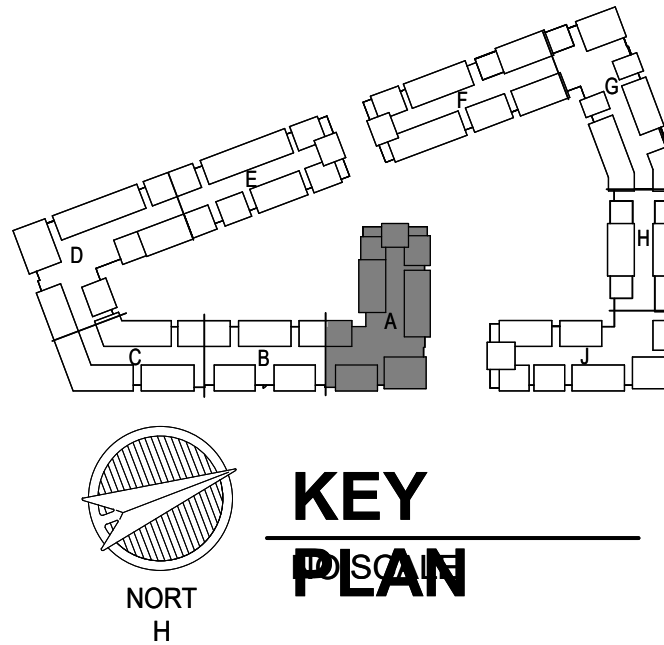
ELECTRICAL
SHEET NO.

E1.01



1 2ND FLOOR - SEGMENT A
ELECTRICAL
1/8" = 1'-0"

- NOTES:**
- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
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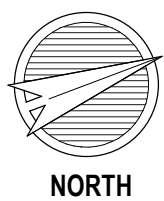
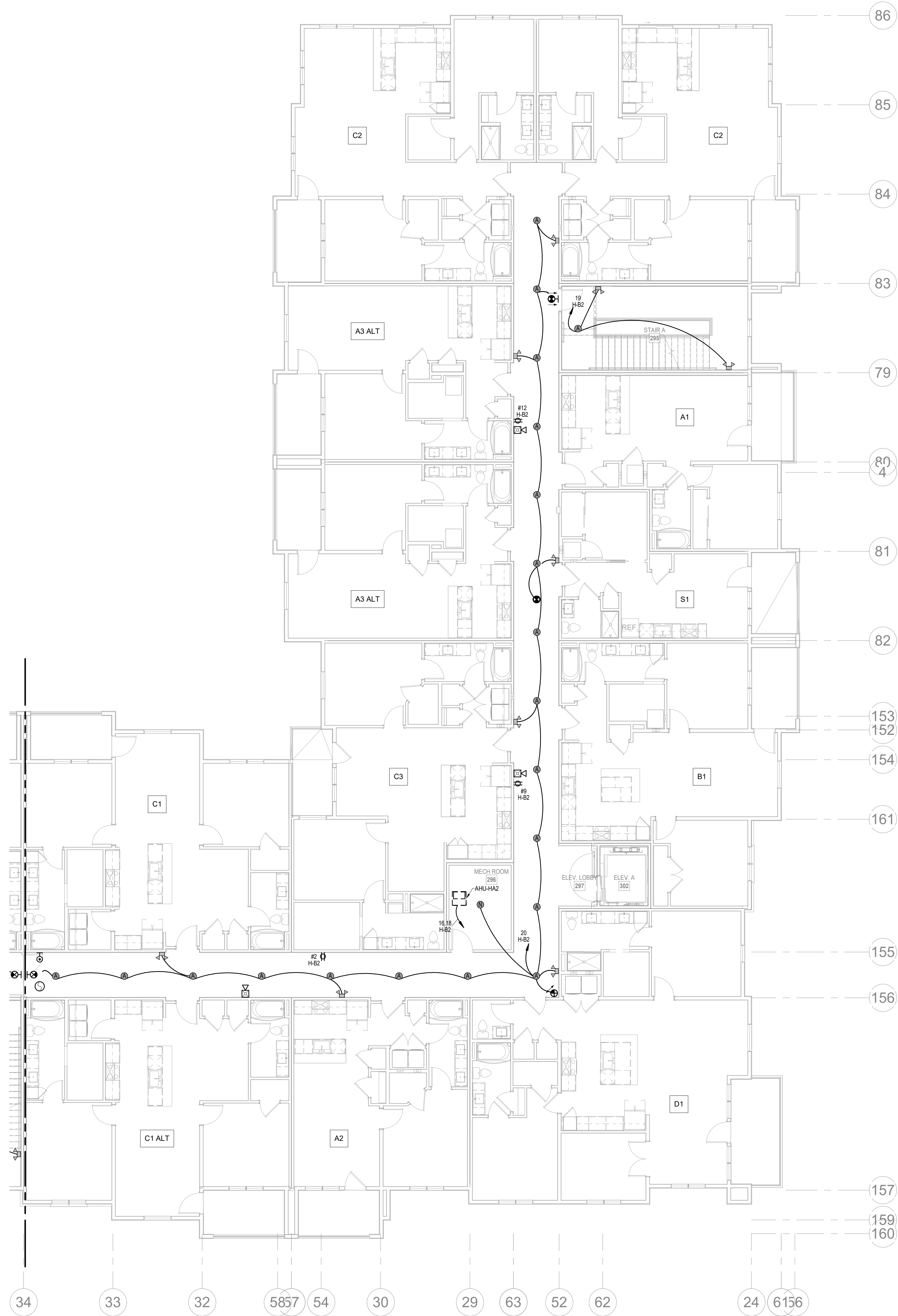
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SHEET NO.

E1.02

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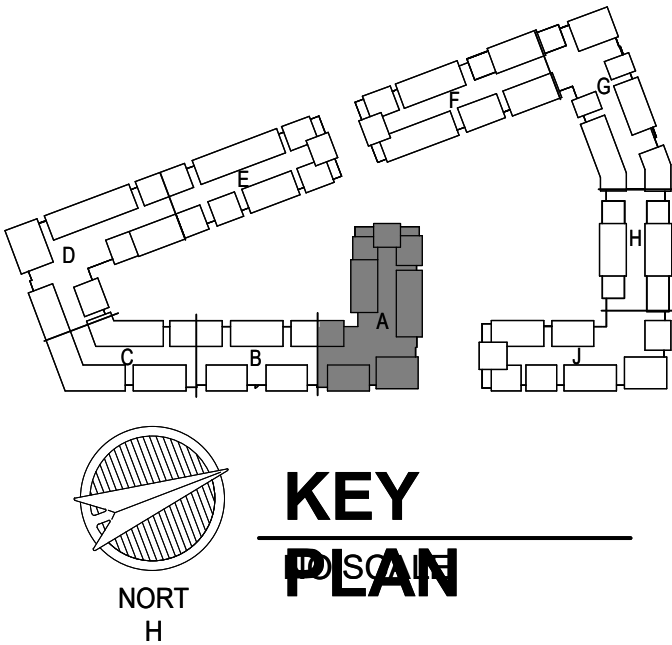
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1 3RD FLOOR - SEGMENT A
ELECTRICAL
1/8" = 1'-0"

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SHEET NO.

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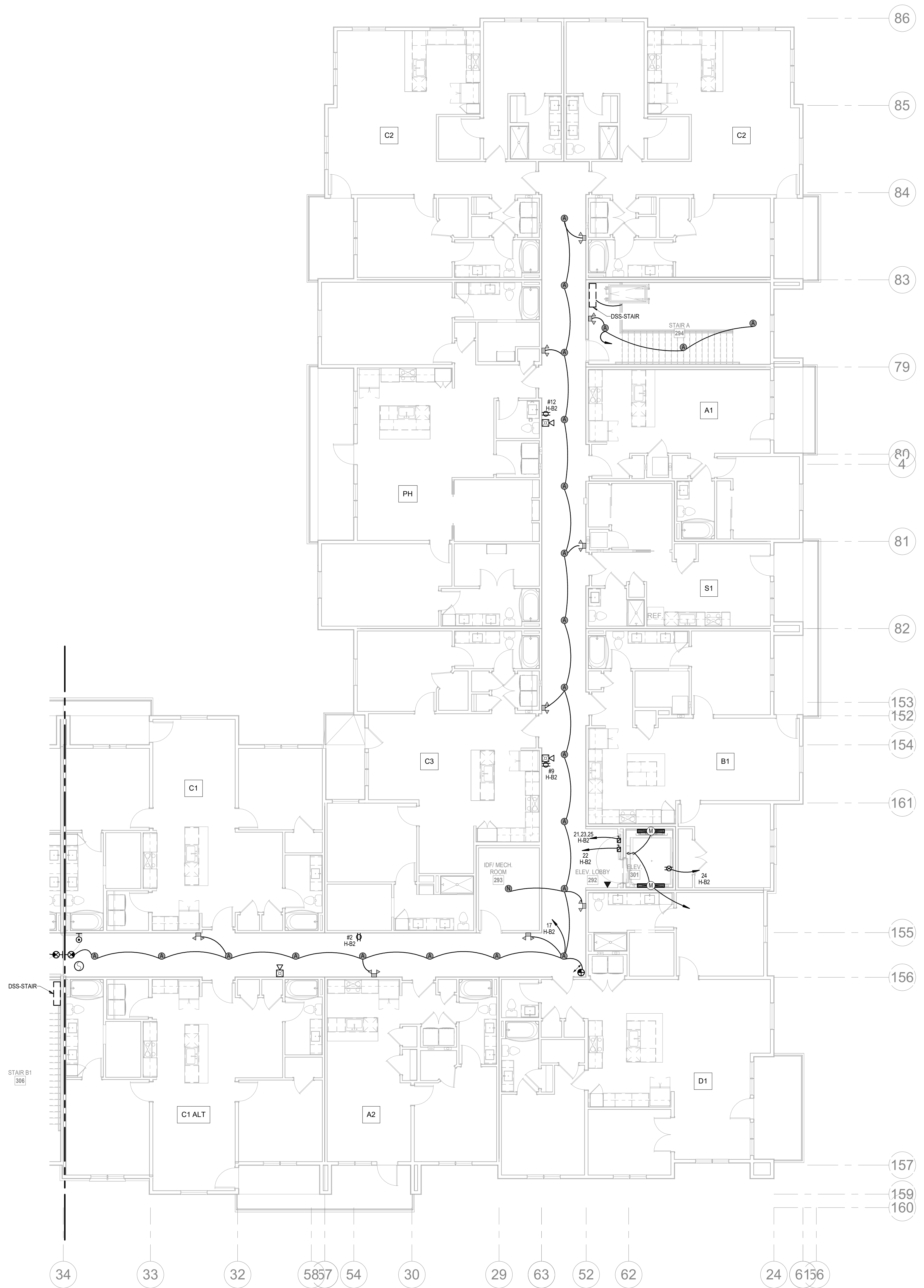
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1 4TH FLOOR - SEGMENT A
ELECTRICAL
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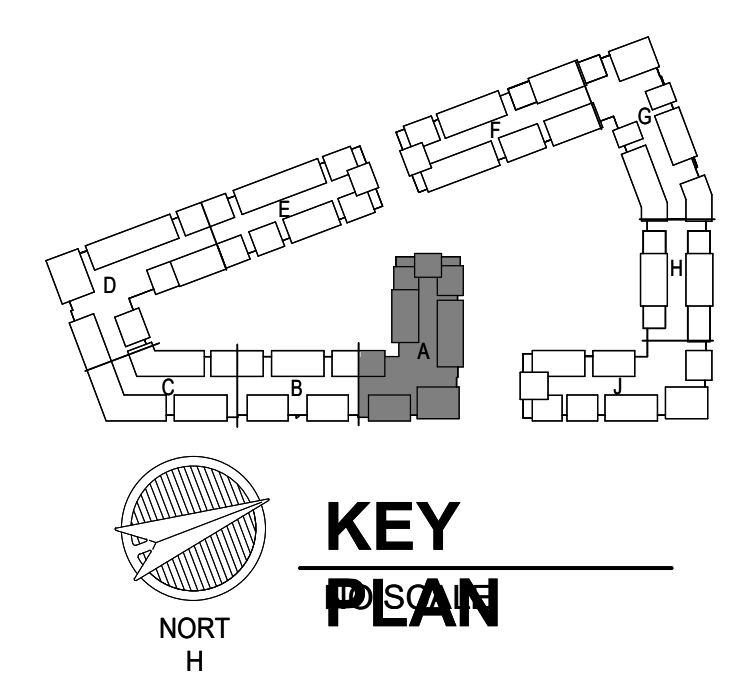
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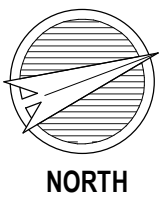
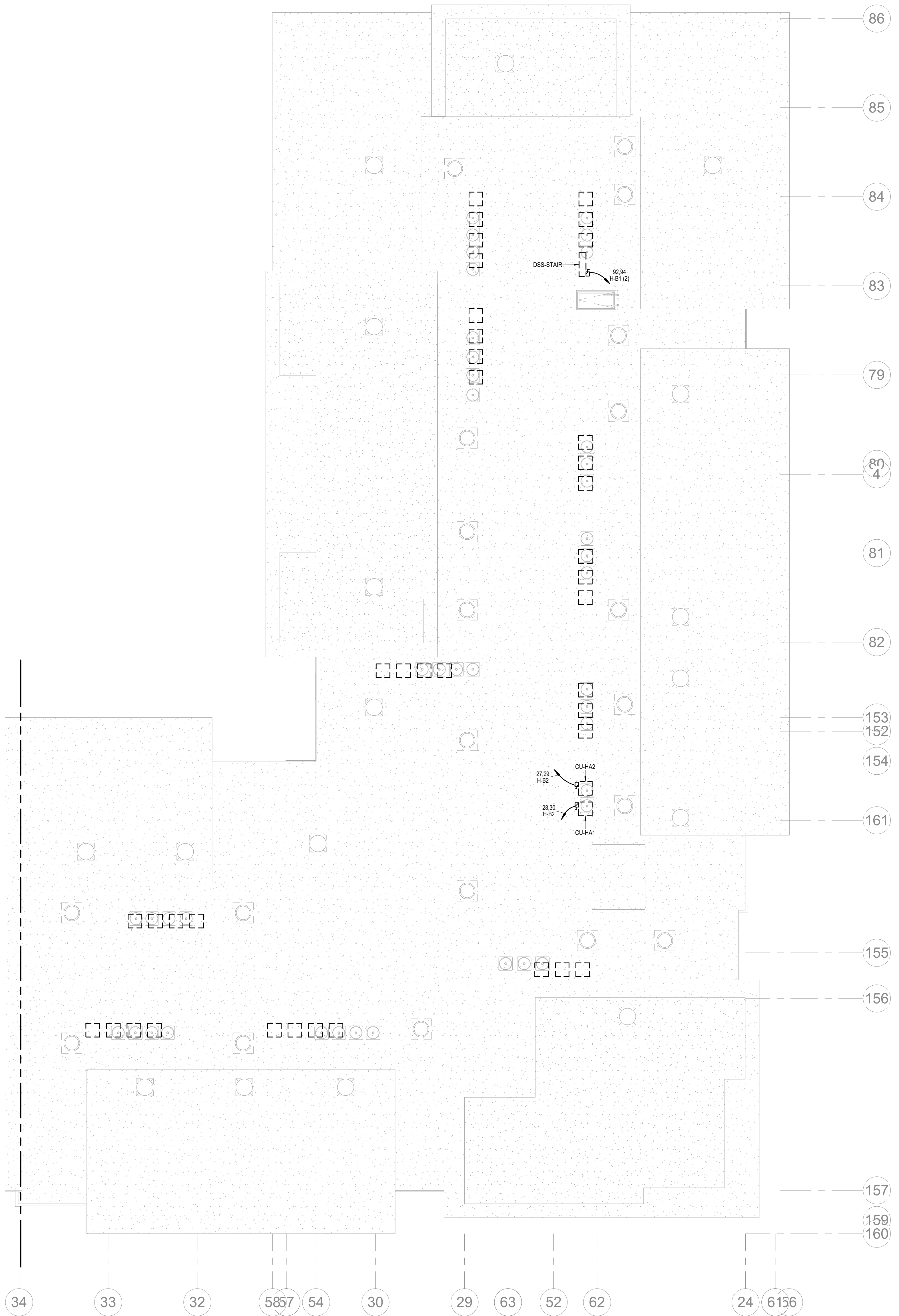
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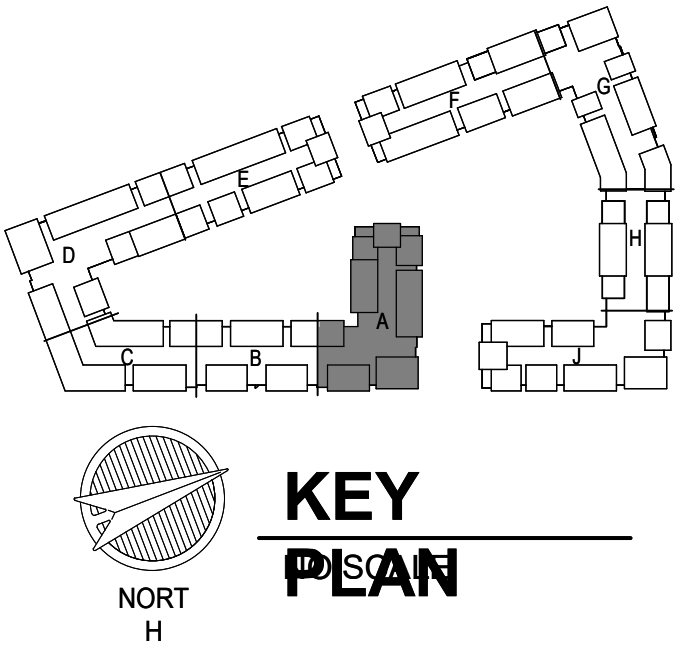
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SHEET NO.

E1.04



1 ROOF PLAN - SEGMENT A
ELECTRICAL
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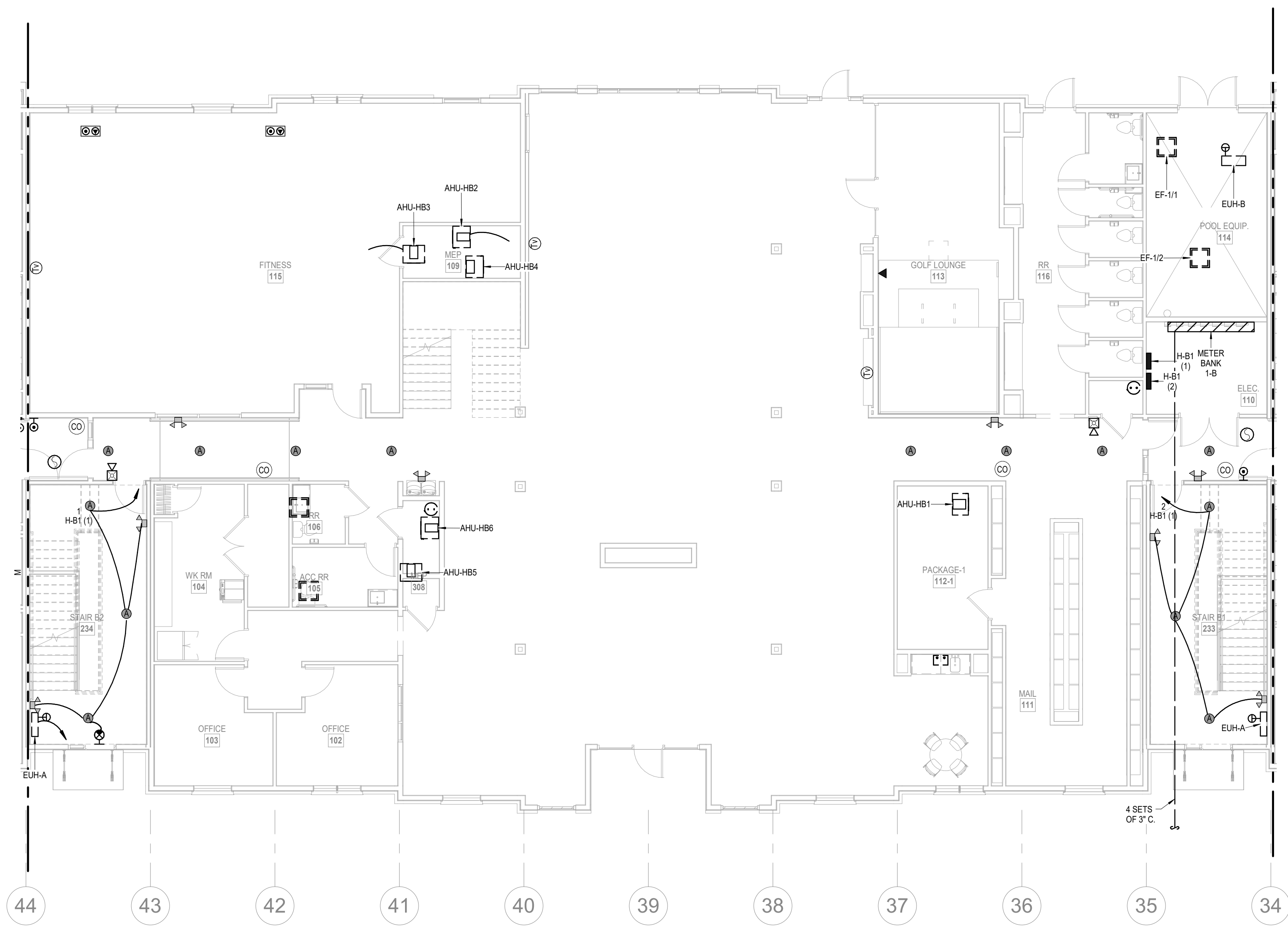
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1 1ST FLOOR - SEGMENT B
ELECTRICAL
1/8" = 1'-0"



2 2ND FLOOR - SEGMENT B
ELECTRICAL
1/8" = 1'-0"

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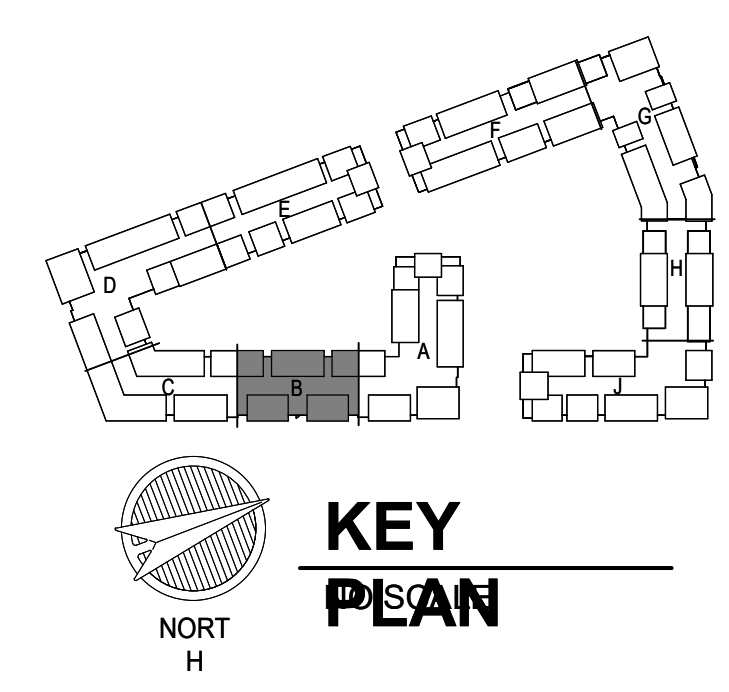
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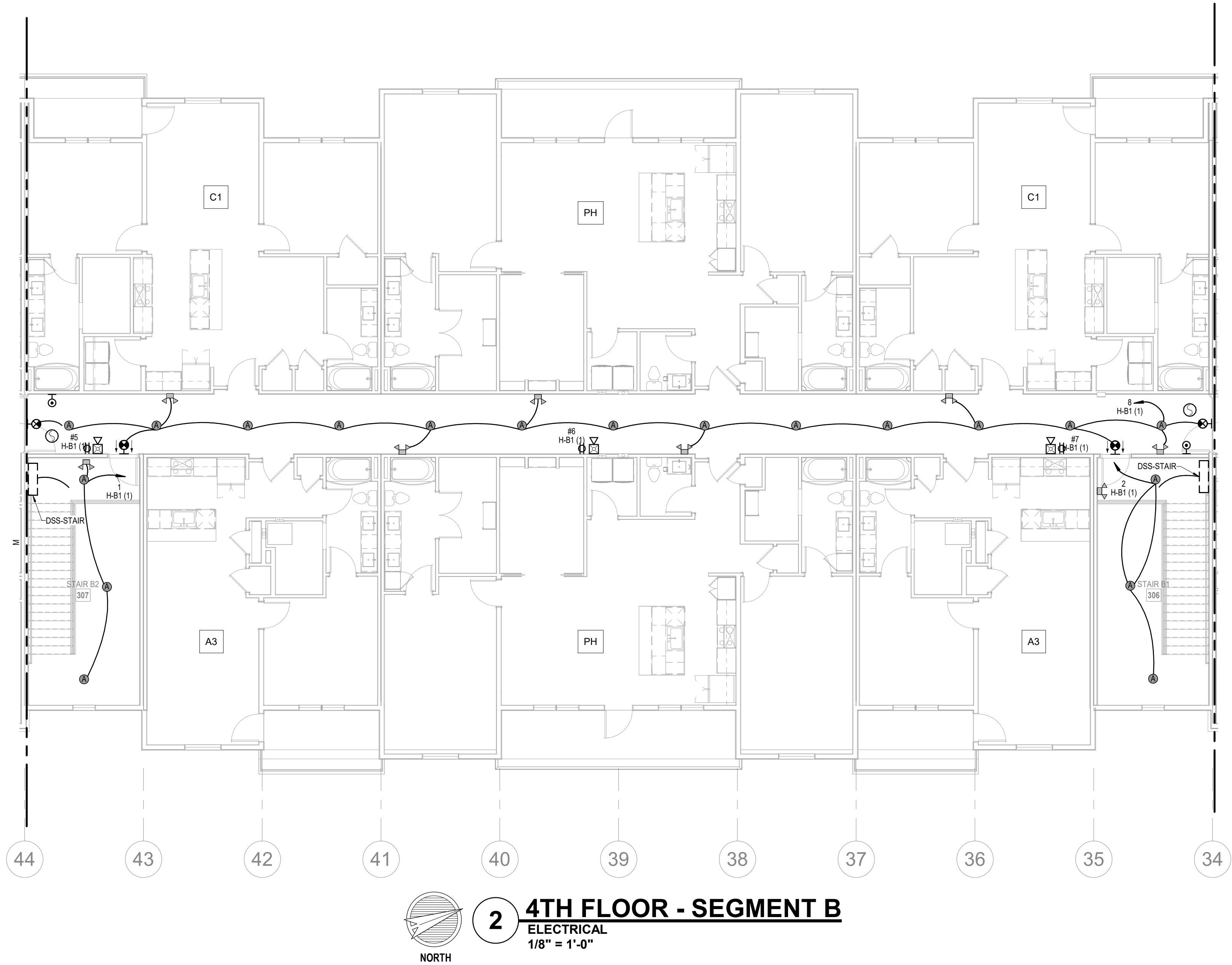
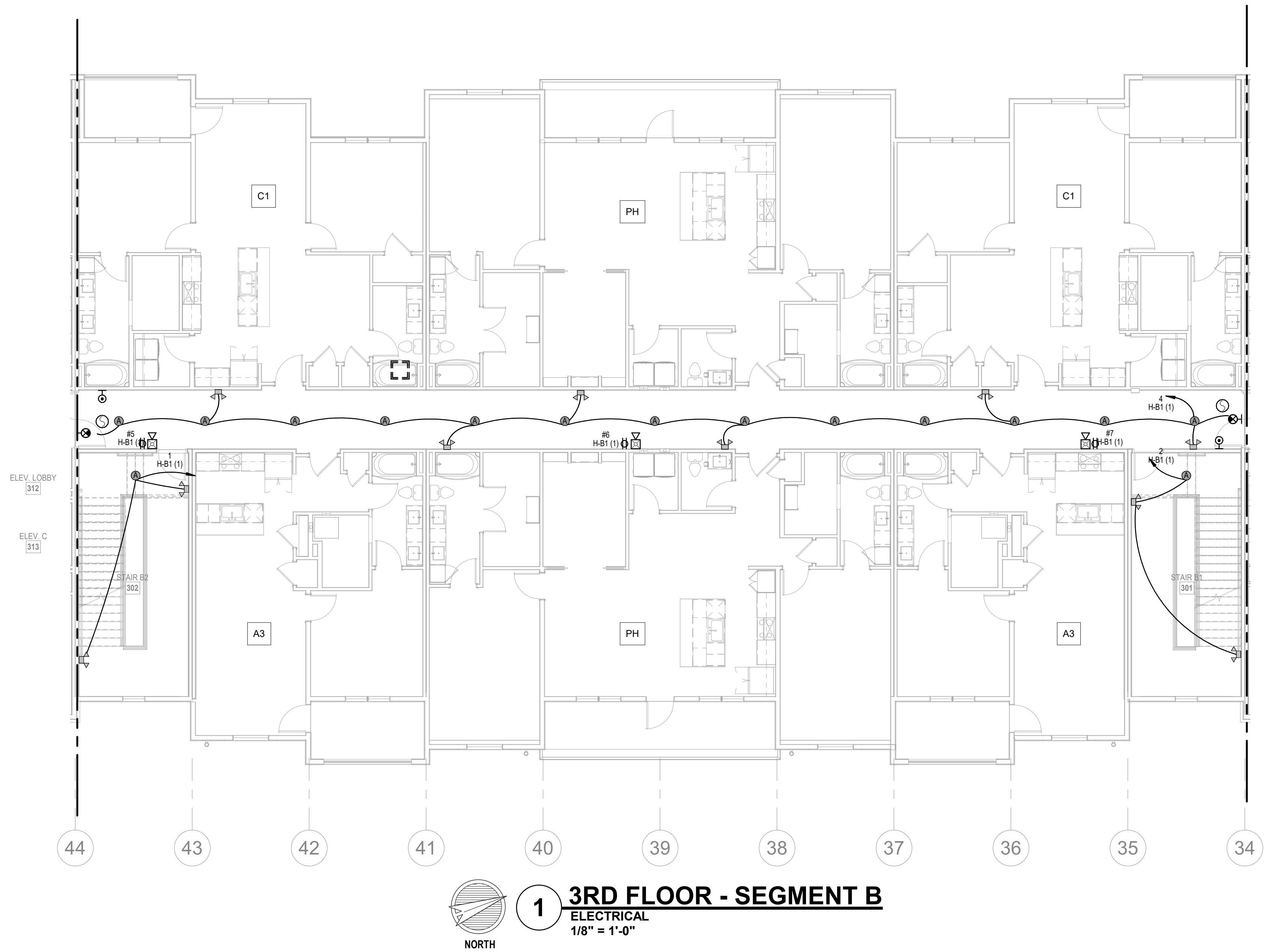


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SHEET NO.

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E1.06



- NOTES:
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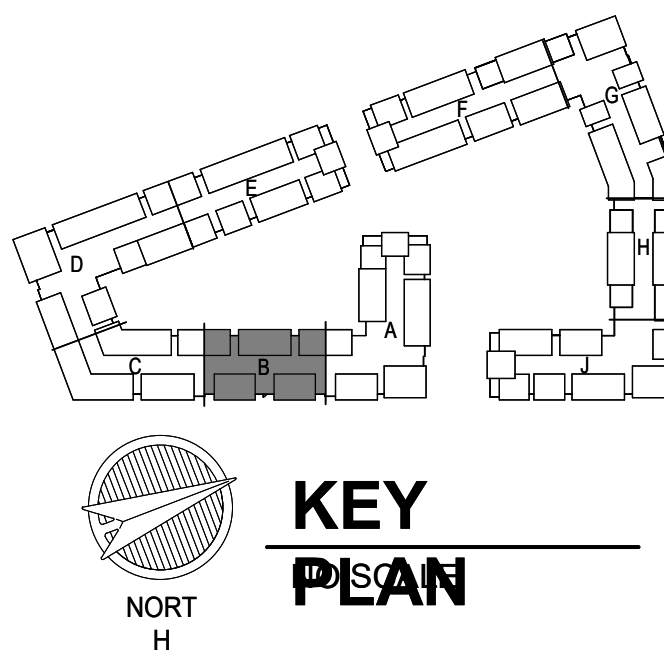
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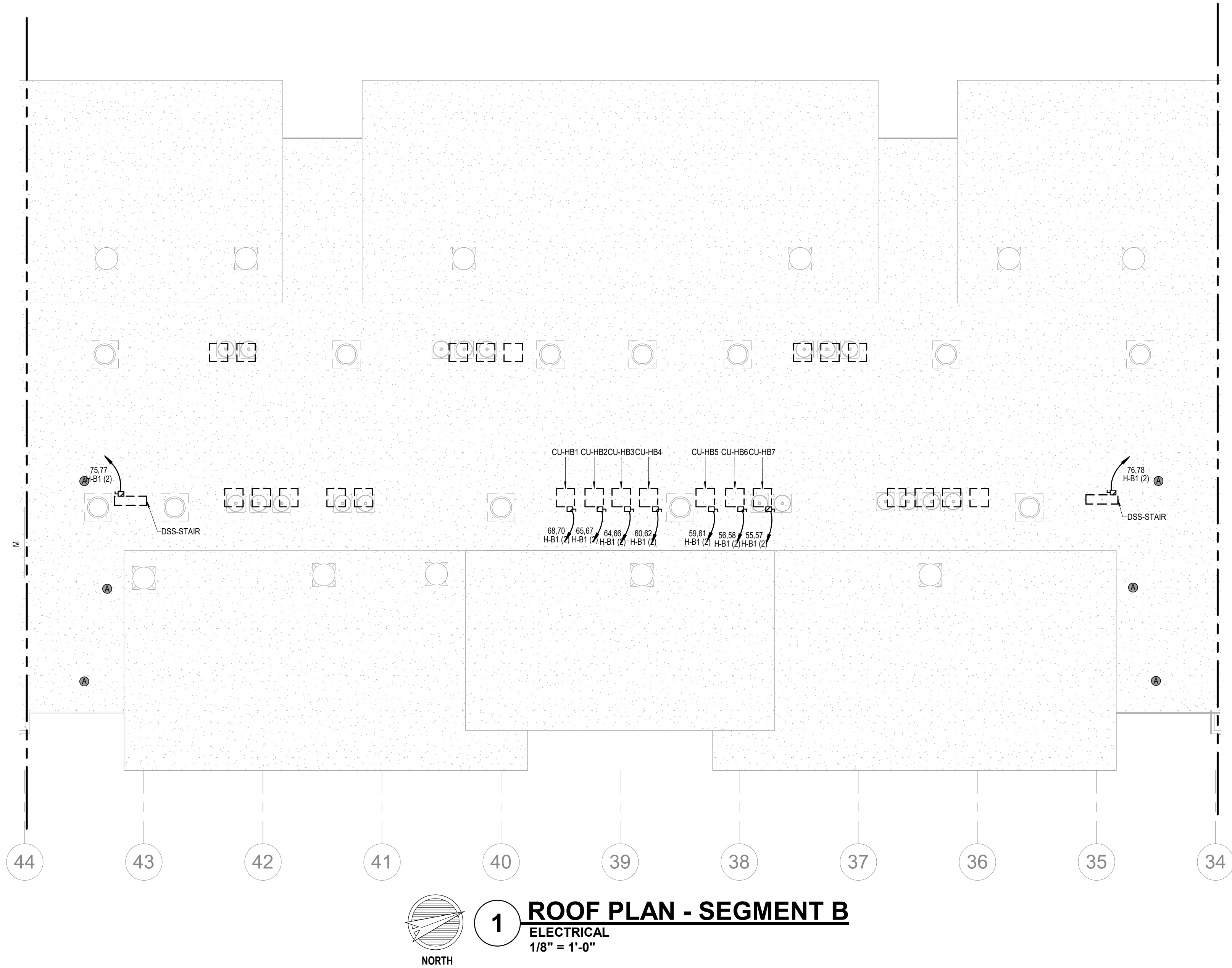
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SHEET NO.

E1.07



1 ROOF PLAN - SEGMENT B
ELECTRICAL
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 13. REVIEW HVAC PLANS FOR FIRE/SMOKE DAMPERS AND CONNECT TO 120V AND FIRE ALARM.

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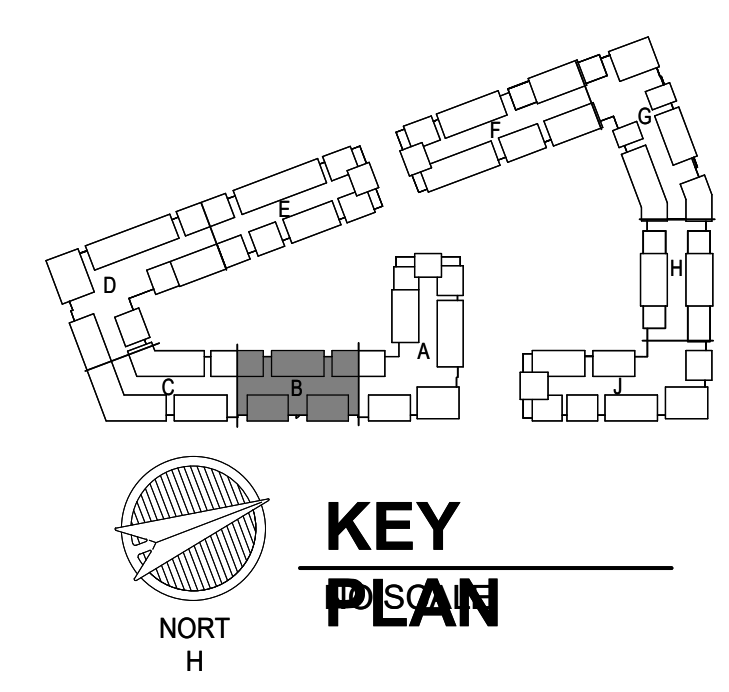
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LSA PROJECT NO. 2204061

JOB NO.
705921

DATE
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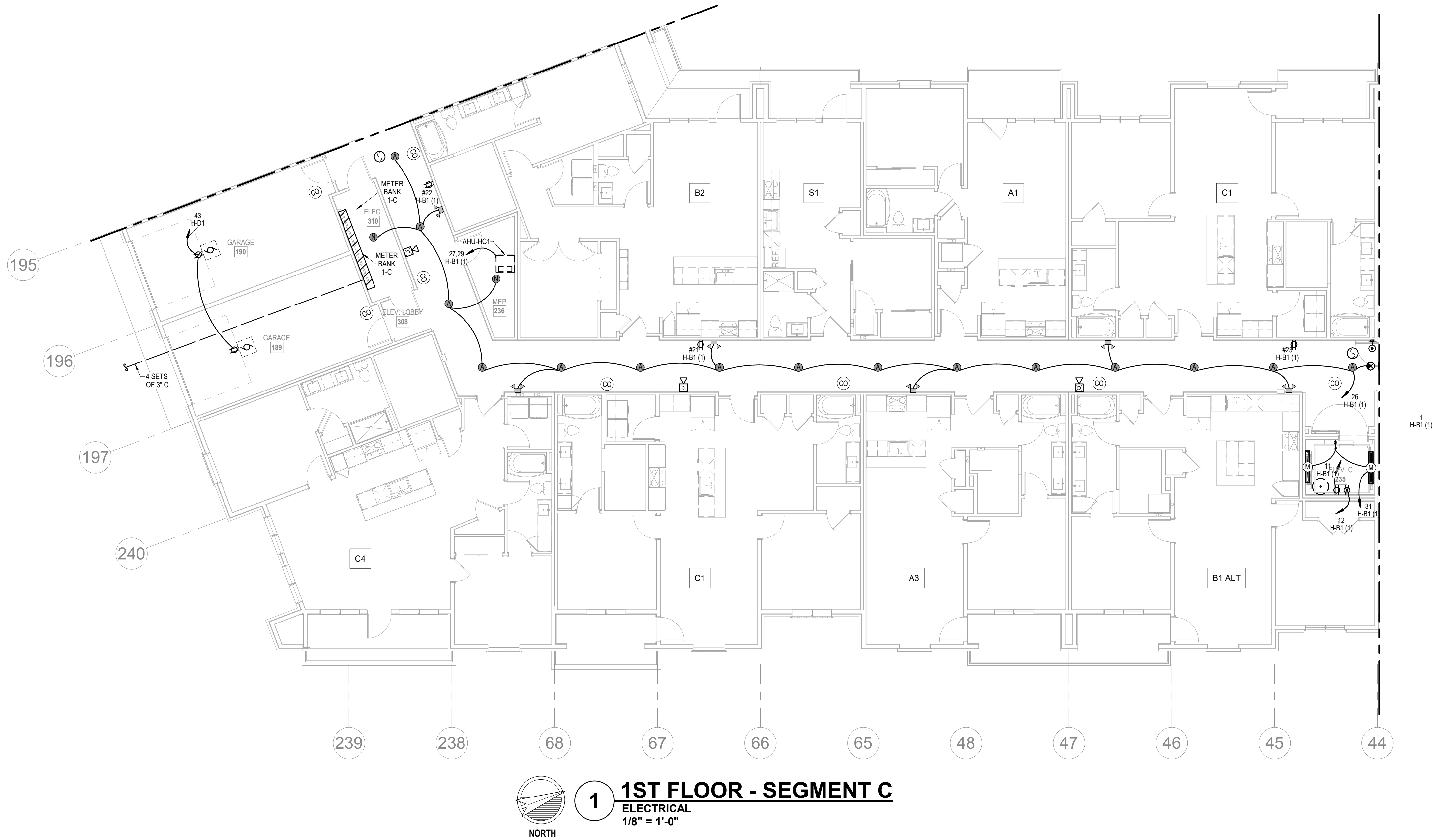
4/11/2023

SHEET NAME
CITY COMMENTS

SEGMENT B - ROOF PLAN - ELECTRICAL

SHEET NO.

E1.08



1 1ST FLOOR - SEGMENT C
ELECTRICAL
1/8" = 1'-0"

- NOTES:
- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
 - SEE FIRE SUPPRESSION SUBMITTALS AND INCORPORATE ALL DEVICES INTO FIRE ALARM.
 - EXIT LIGHTS SHALL BE VISIBLE TO OCCUPANTS.
 - PROVIDE NEC CLEARANCES FOR ALL PANELS AND ELECTRICAL EQUIPMENT.
 - FOLLOW THE DRAWINGS FOR HOME RUNS AND CIRCUIT NUMBERS. DO NOT COMBINE CIRCUITS IN LARGER CONDUITS UNLESS PRE-APPROVED BY THE ENGINEER.
 - LABEL ALL JUNCTION BOXES AS TO THE PANEL AND CIRCUIT NUMBER SERVED.
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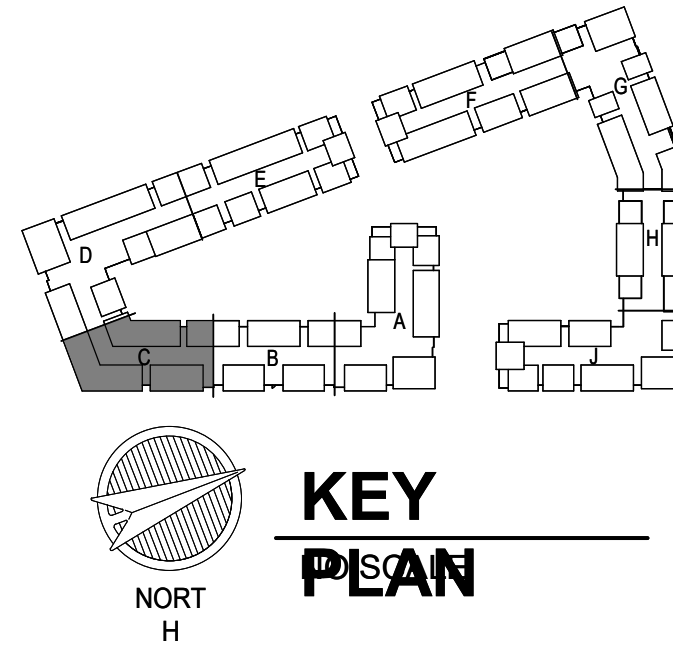
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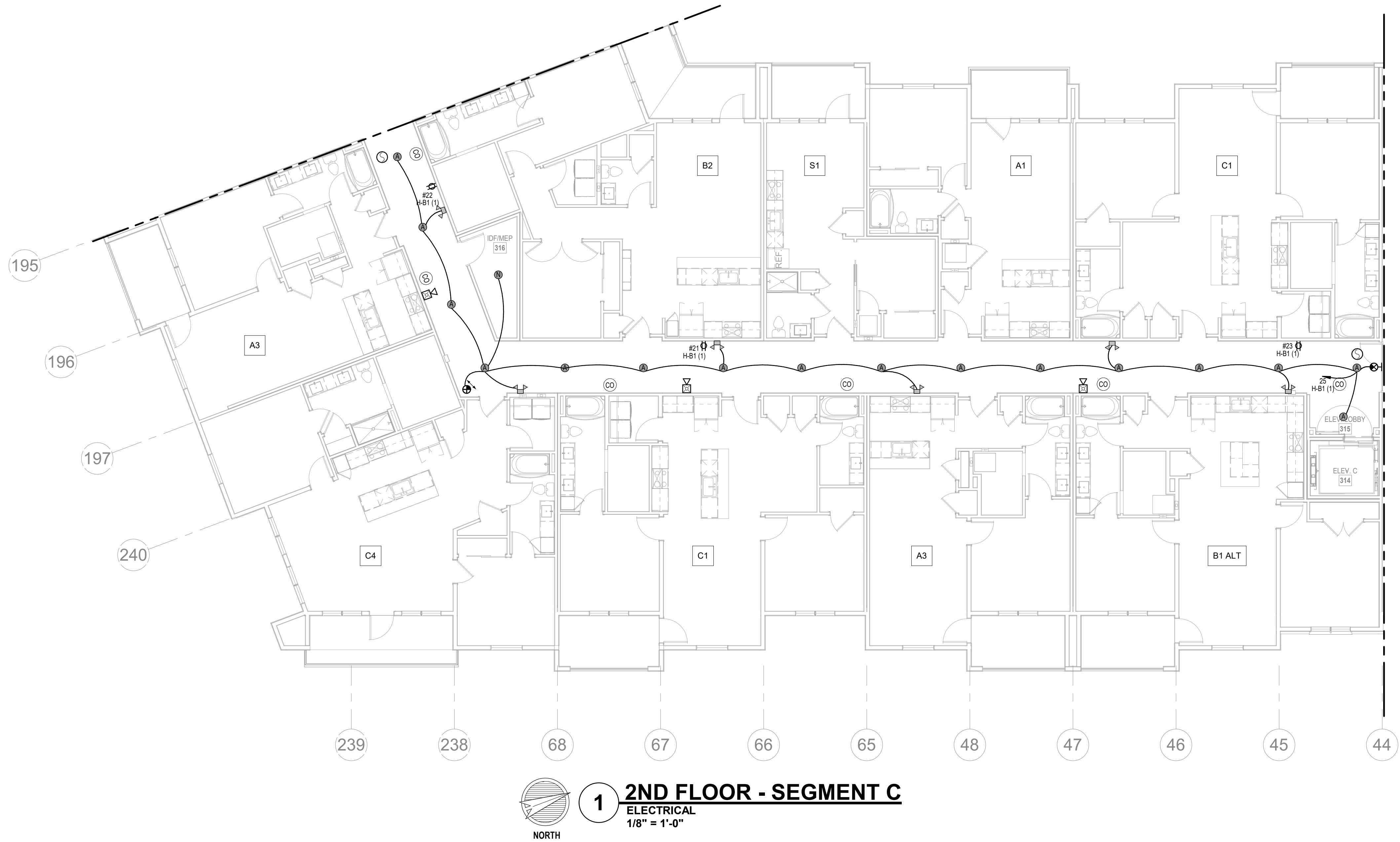
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CITY COMMENTS





SHEET NAME
SEGMENT C - 1ST FLOOR - ELECTRICAL

SHEET NO.

E1.09



1 2ND FLOOR - SEGMENT C
ELECTRICAL
1/8" = 1'-0"

- NOTES:
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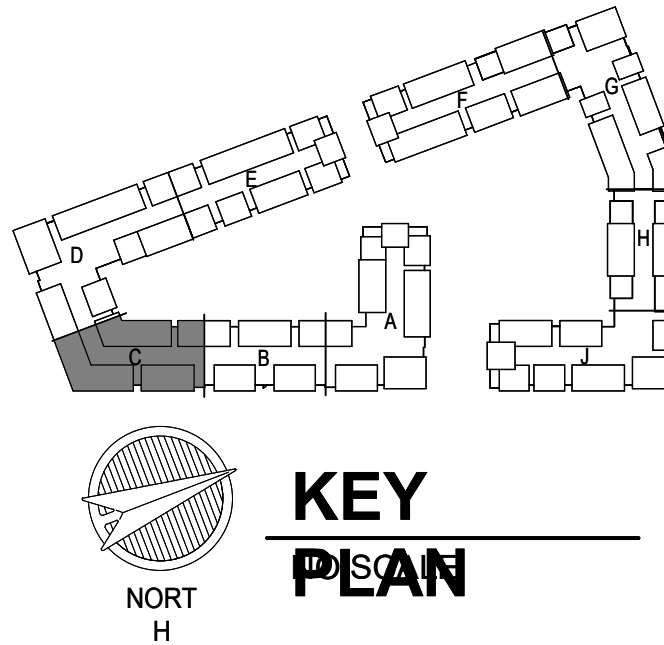


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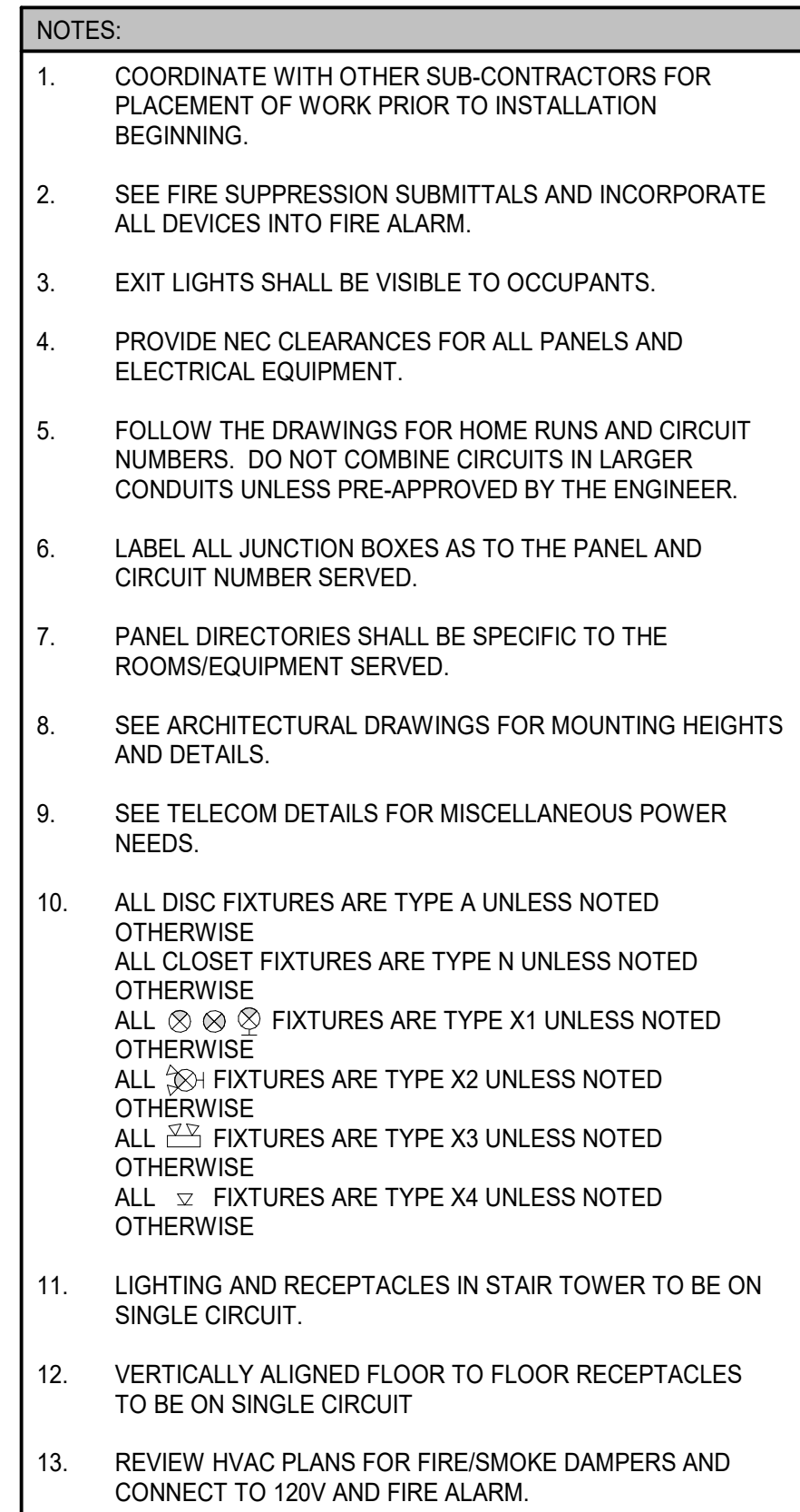
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CITY COMMENTS
SEGMENT C - 2ND FLOOR - ELECTRICAL
SHEET NO. E1.10

DATE 03.15.2023





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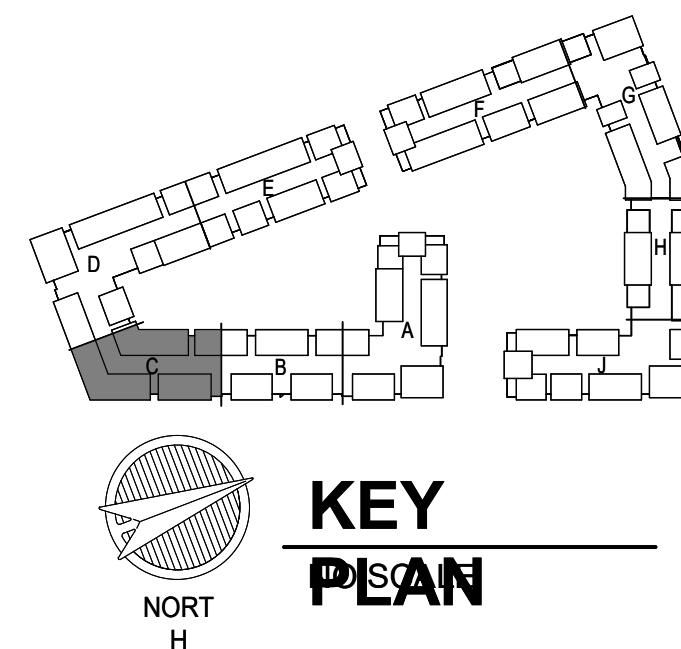
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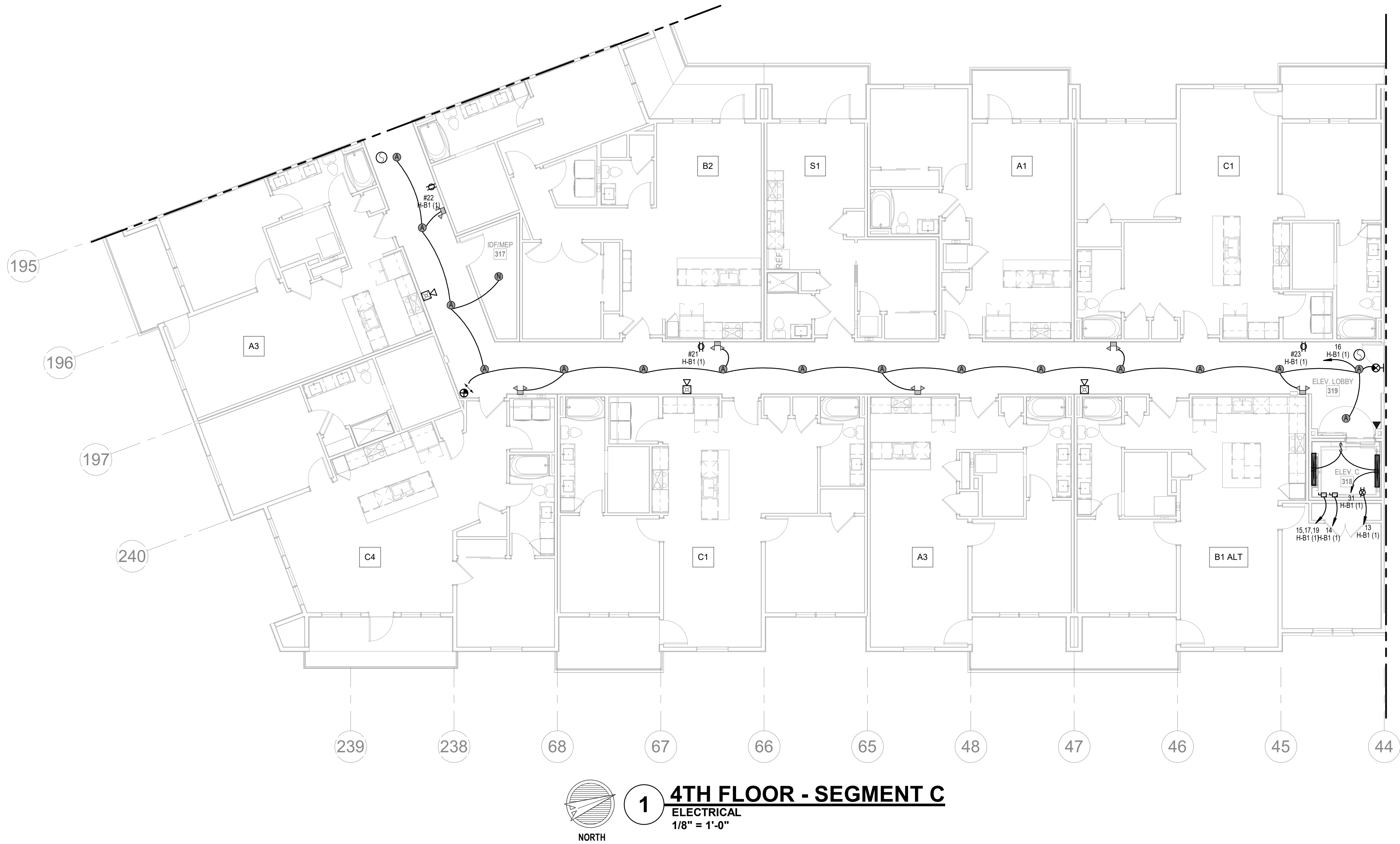


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JOB NO. **705921** DATE **03.15.2023**
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 4/11/2023
CITY COMMENTS
 SHEET NAME
SEGMENT C - 3RD FLOOR -
ELECTRICAL
 SHEET NO.

E1.11



1 4TH FLOOR - SEGMENT C
ELECTRICAL
1/8" = 1'-0"

- NOTES:**
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 3. EXIT LIGHTS SHALL BE VISIBLE TO OCCUPANTS.
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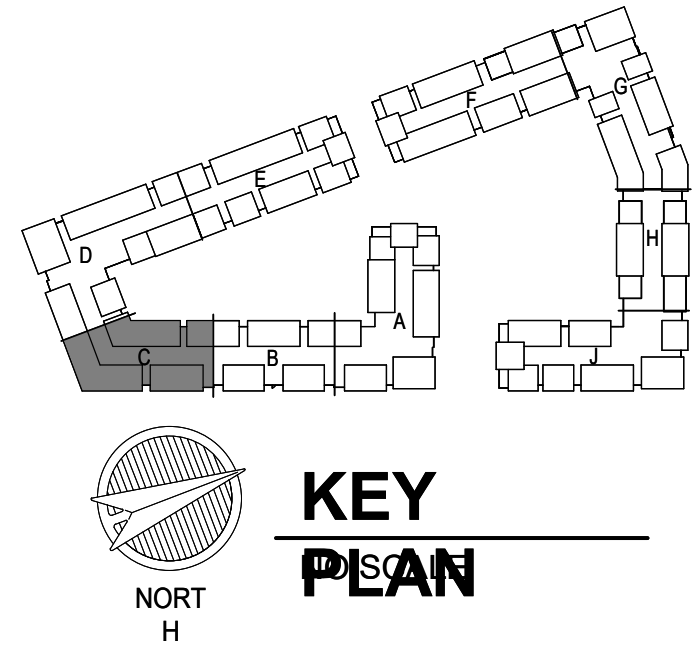
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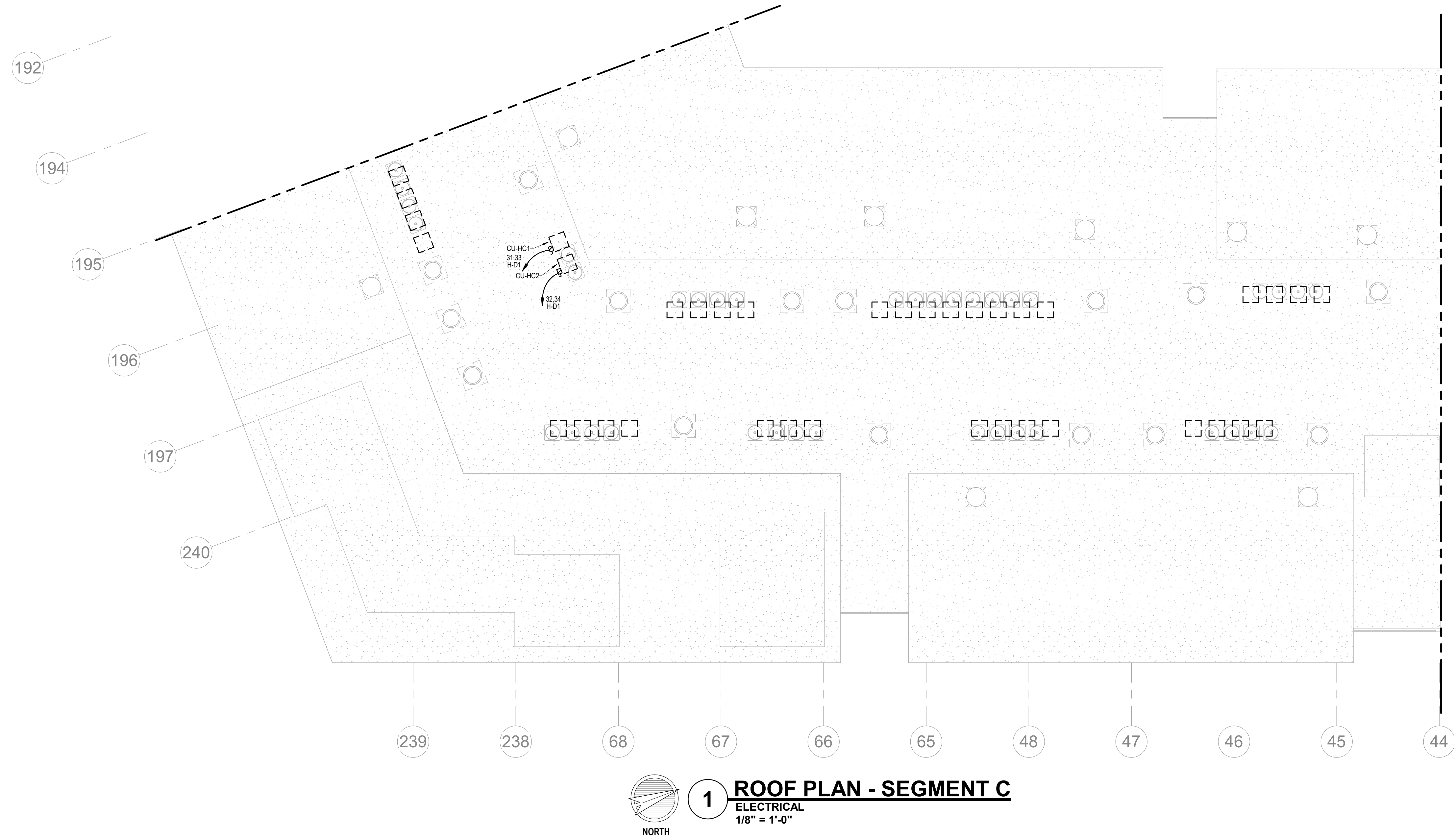
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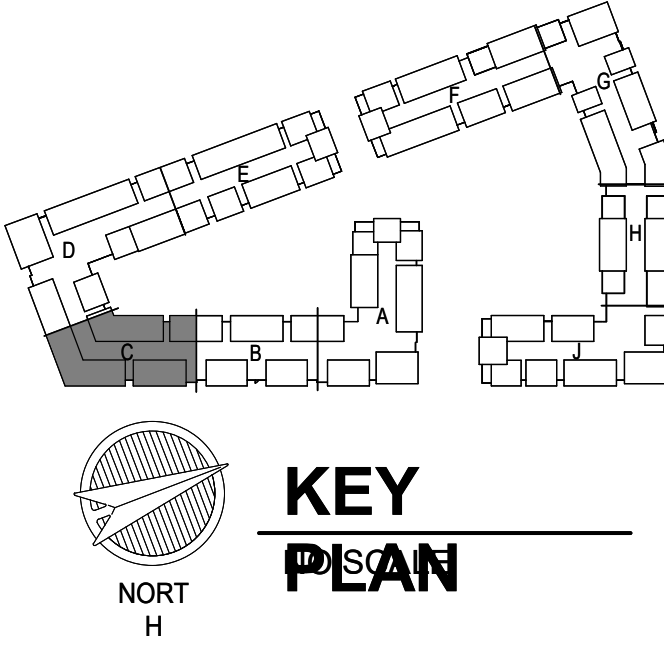
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4/11/2023
CITY COMMENTS
SEGMENT C - 4TH FLOOR - ELECTRICAL
SHEET NO.

E1.12



- NOTES:
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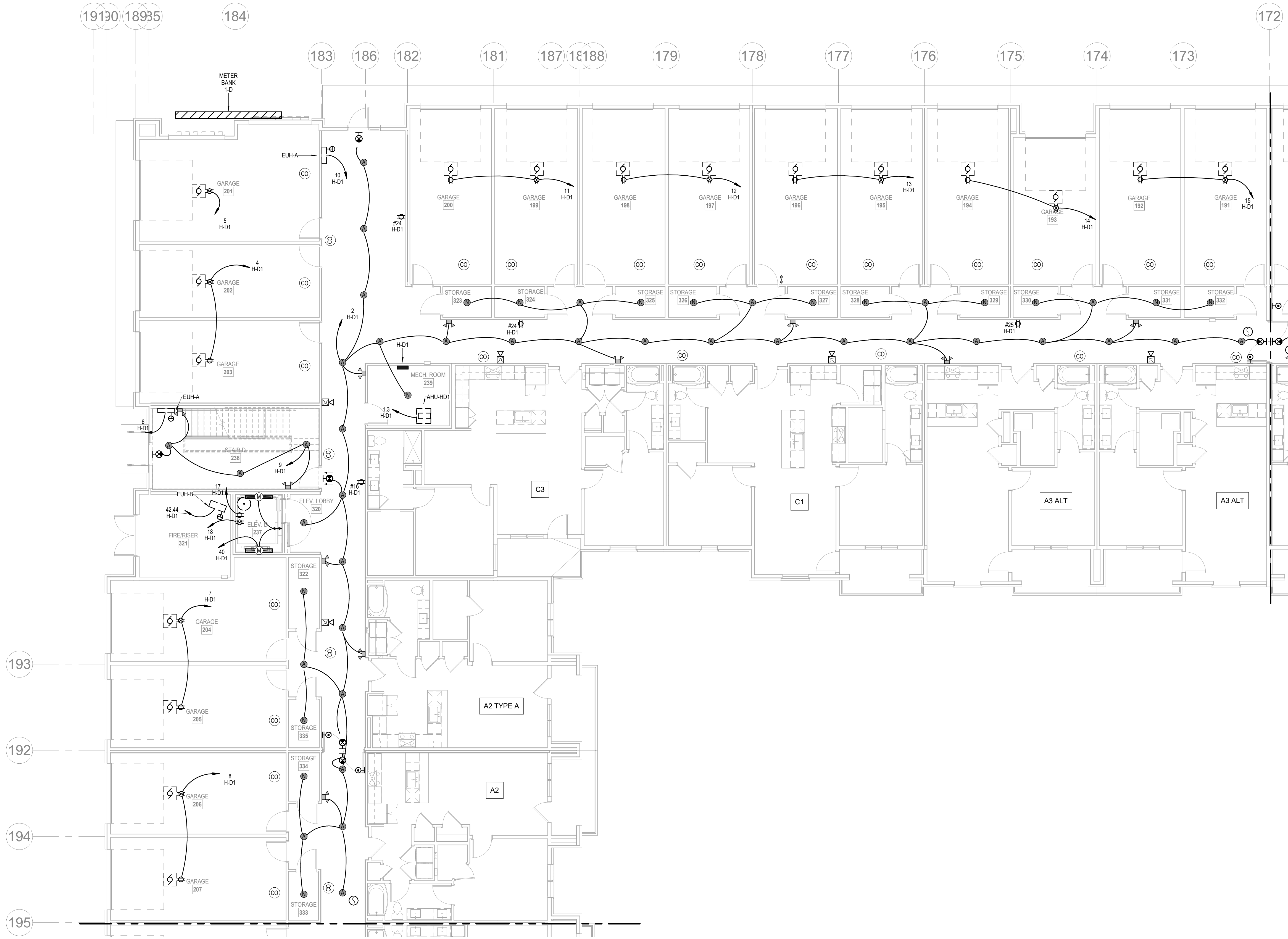
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CITY COMMENTS
SEGMENT C - ROOF PLAN - ELECTRICAL
SHEET NO.

E1.13

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1 1ST FLOOR - SEGMENT D
ELECTRICAL
1/8" = 1'-0"

- NOTES:**
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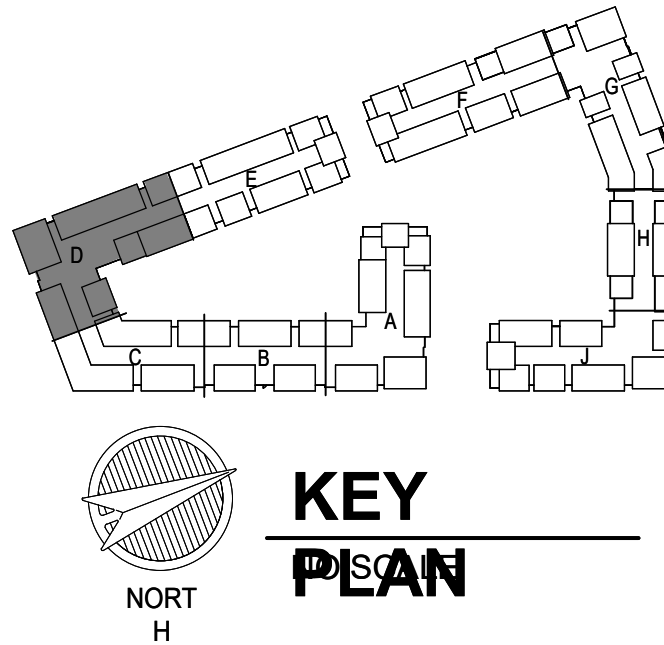
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JOB NO.
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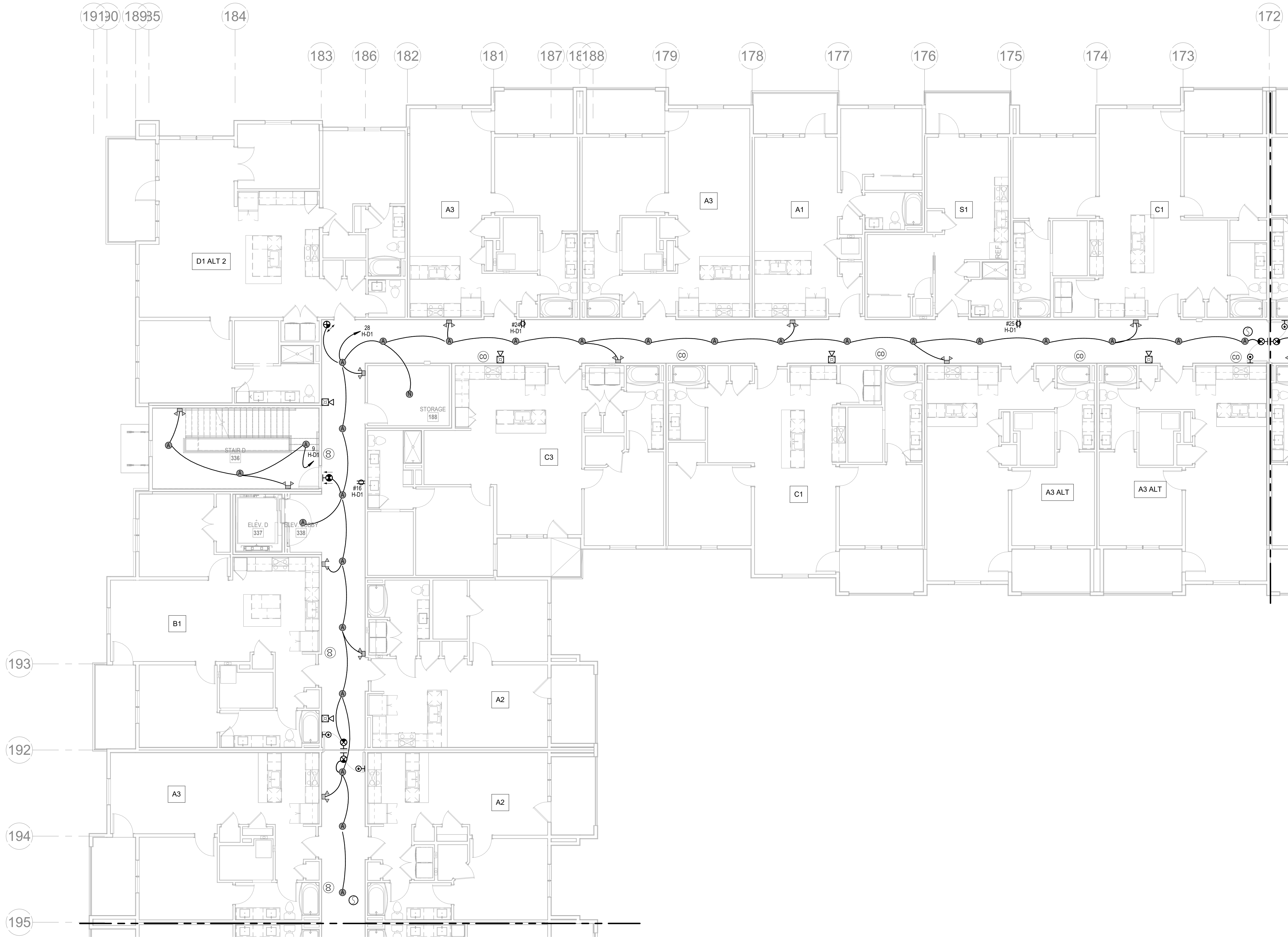
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SHEET NAME
CITY COMMENTS

SEGMENT D - 1ST FLOOR -
ELECTRICAL

SHEET NO.

E1.14



1 2ND FLOOR - SEGMENT D
ELECTRICAL
1/8" = 1'-0"

- NOTES:
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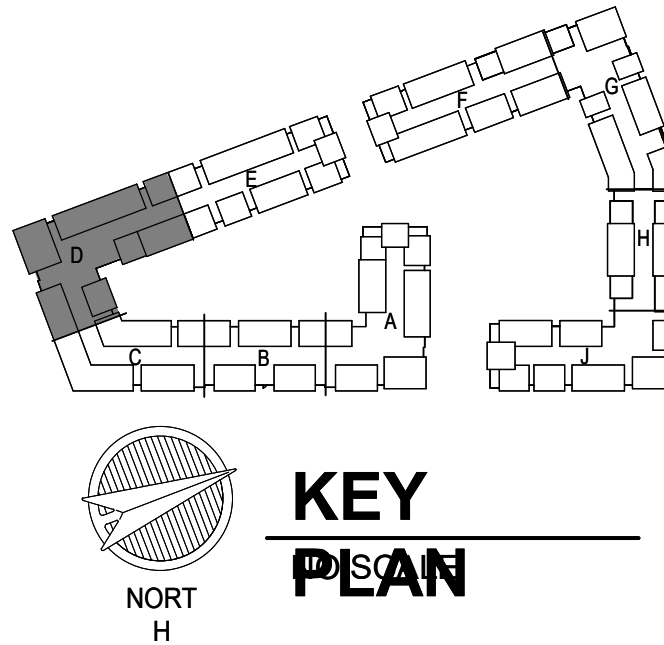
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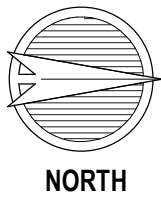
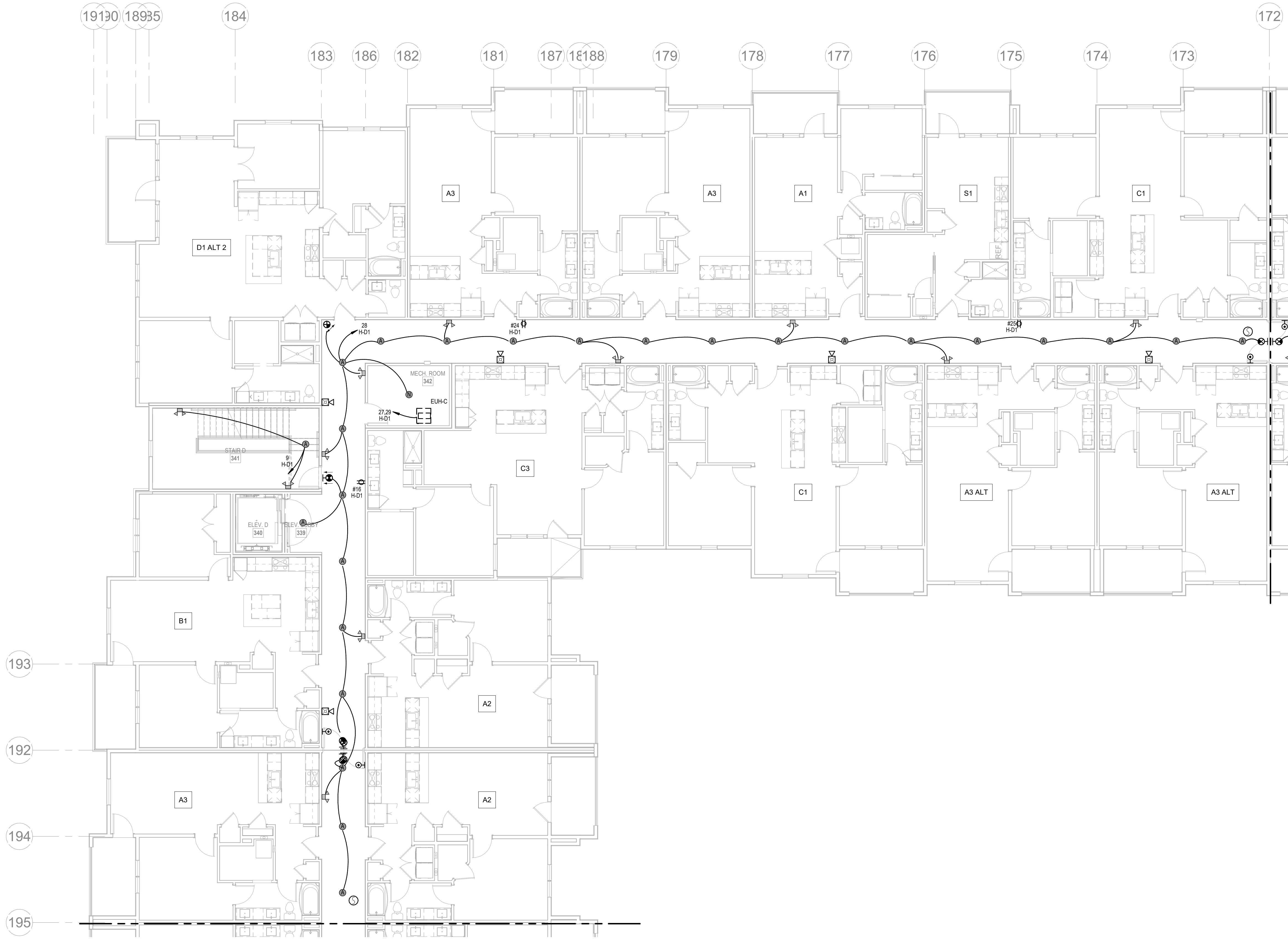
4/11/2023

SHEET NAME
CITY COMMENTS

SEGMENT D - 2ND FLOOR - ELECTRICAL

SHEET NO.

E1.15



1 **3RD FLOOR - SEGMENT D**
ELECTRICAL
1/8" = 1'-0"

- NOTES:**
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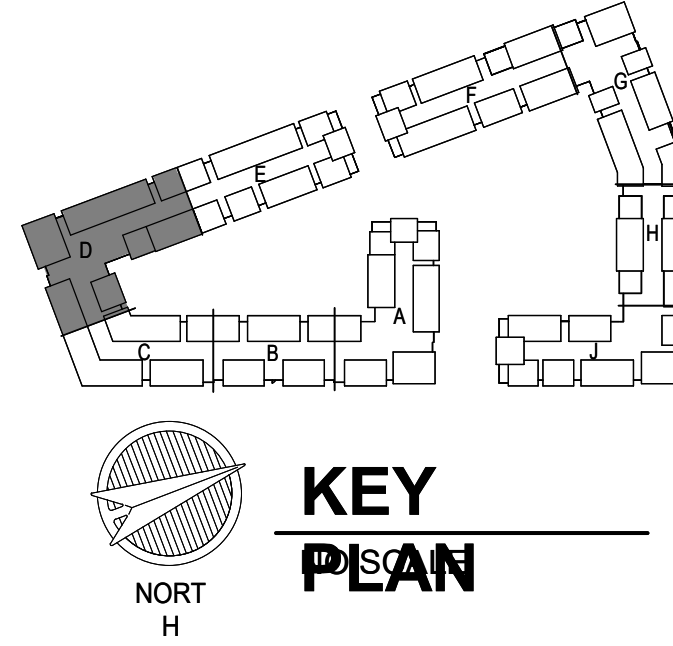
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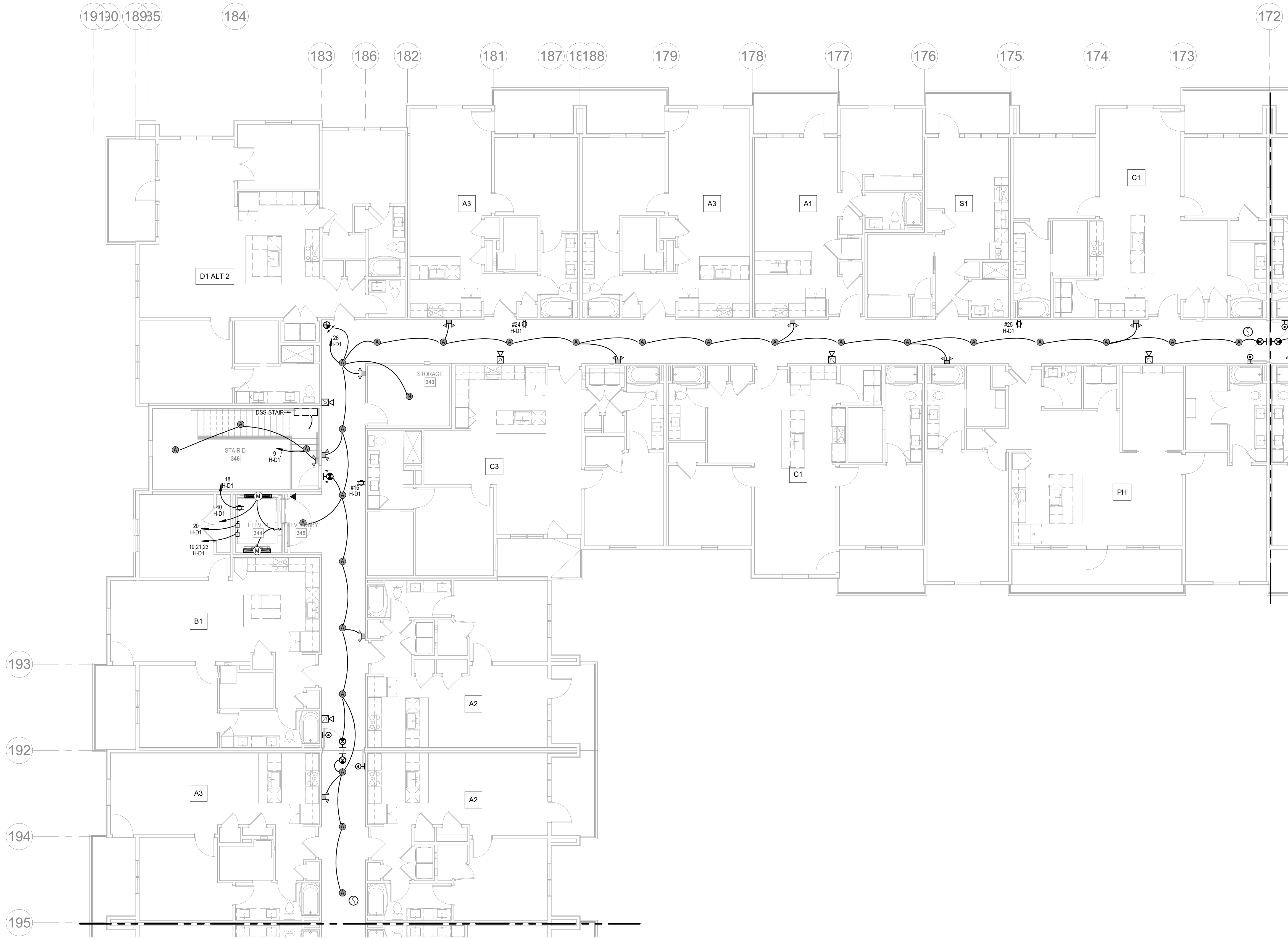
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SHEET NAME
CITY COMMENTS

SEGMENT D - 3RD FLOOR -
ELECTRICAL

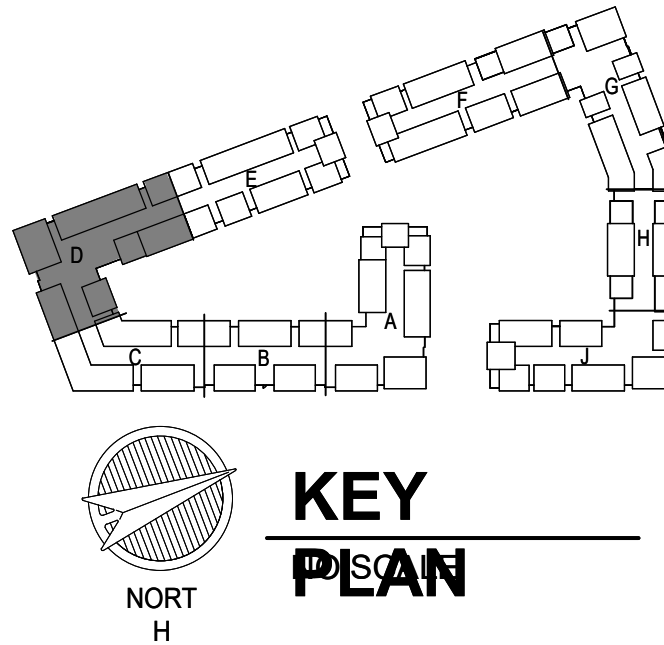
SHEET NO.

E1.16



1 4TH FLOOR - SEGMENT D
ELECTRICAL
1/8" = 1'-0"

- NOTES:**
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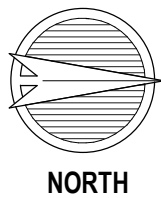
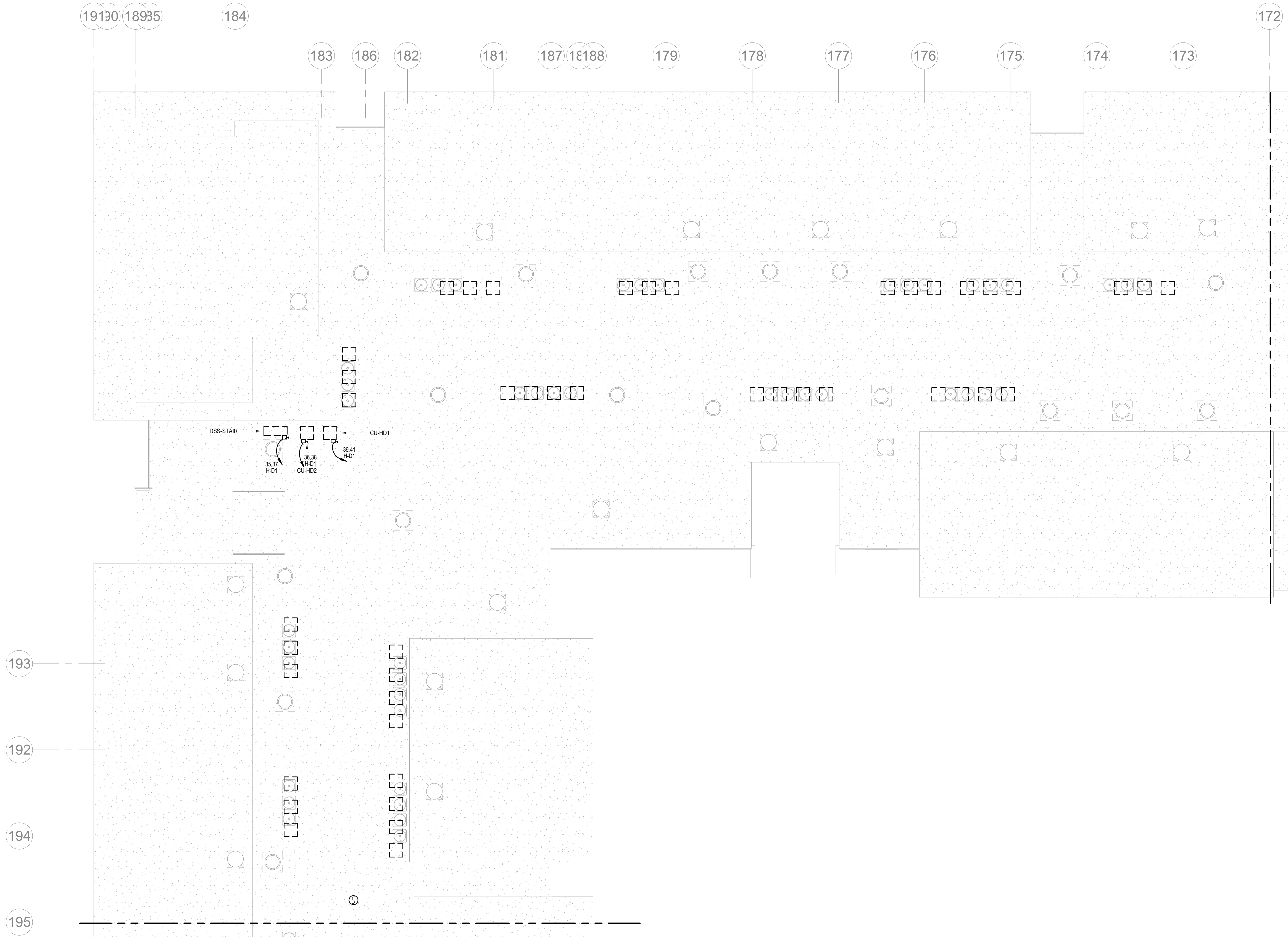
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4/11/2023
CITY COMMENTS
SEGMENT D - 4TH FLOOR - ELECTRICAL
SHEET NO.

DATE 03.15.2023
SHEET NAME
E1.17



1 ROOF PLAN - SEGMENT D
ELECTRICAL
1/8" = 1'-0"

- NOTES:**
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JOB NO.
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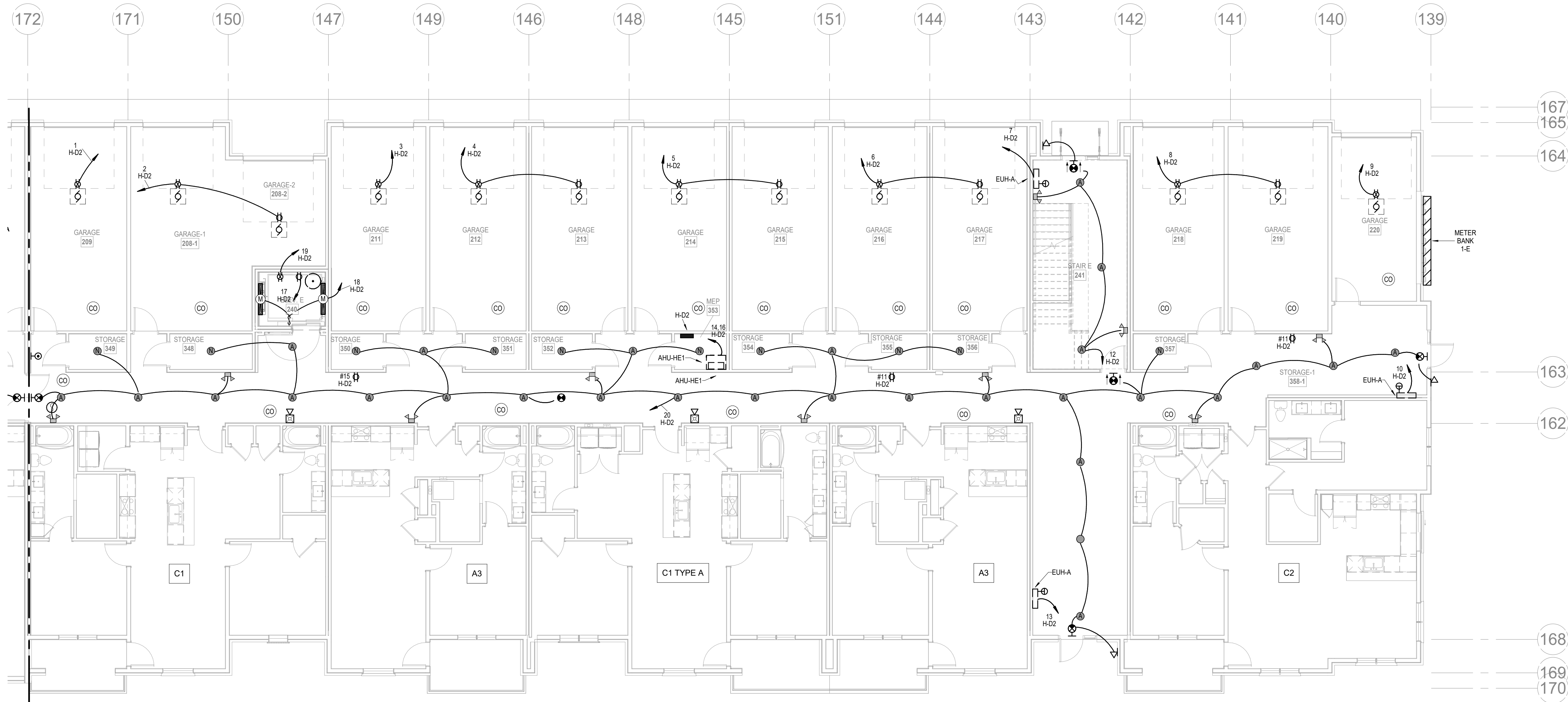
4/11/2023

CITY COMMENTS





SHEET NAME
SEGMENT D - ROOF PLAN - ELECTRICAL

SHEET NO.

E1.18



 **1 1ST FLOOR - SEGMENT E**
ELECTRICAL
1/8" = 1'-0"

- NOTES:**
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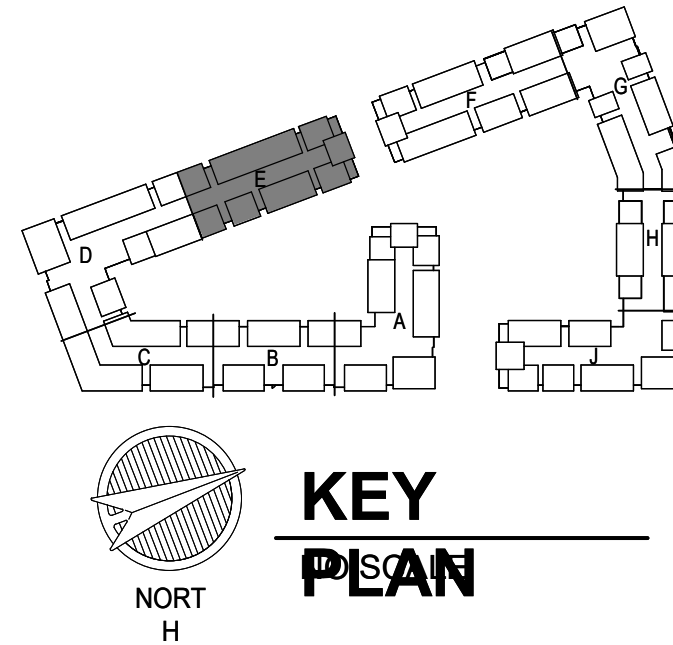

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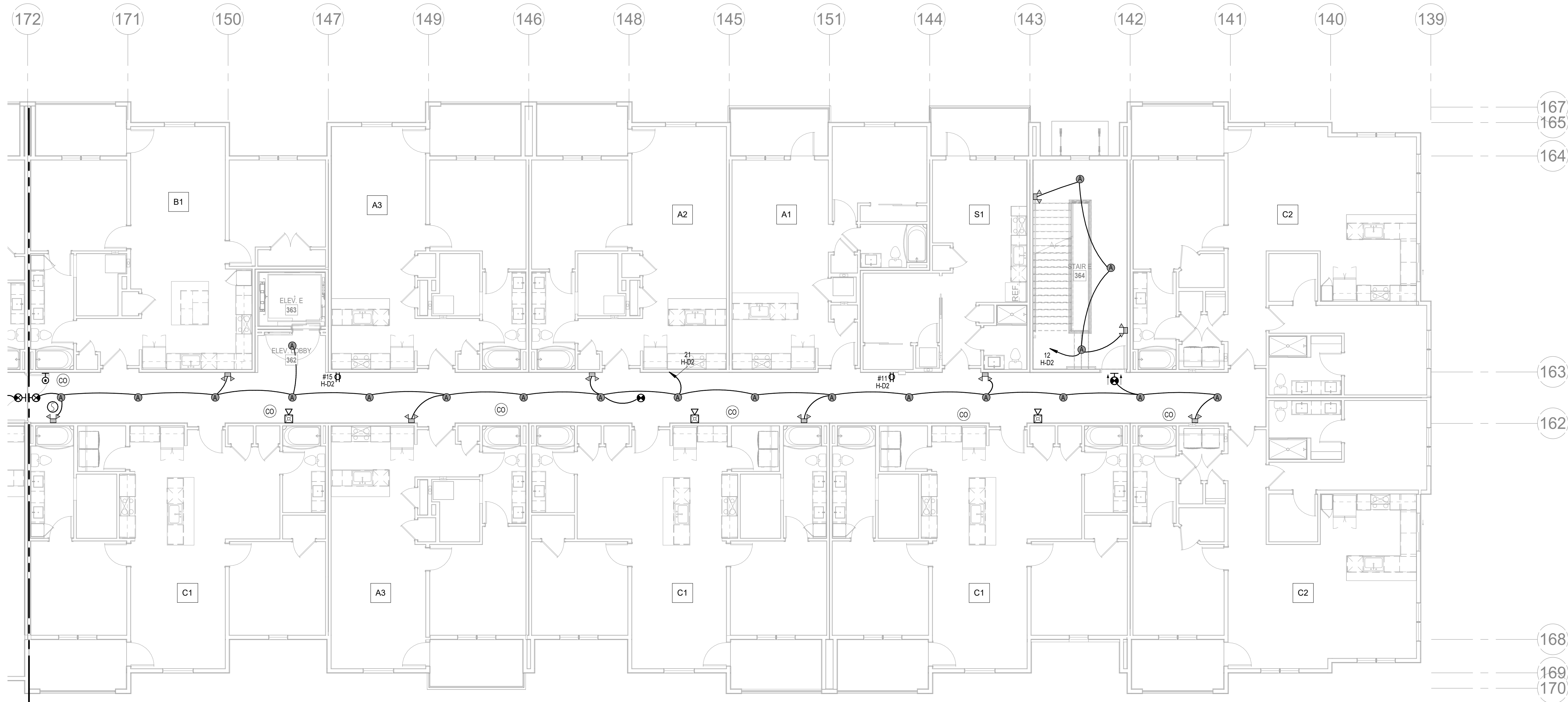
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CITY COMMENTS





SHEET NAME
SEGMENT E - 1ST FLOOR - ELECTRICAL

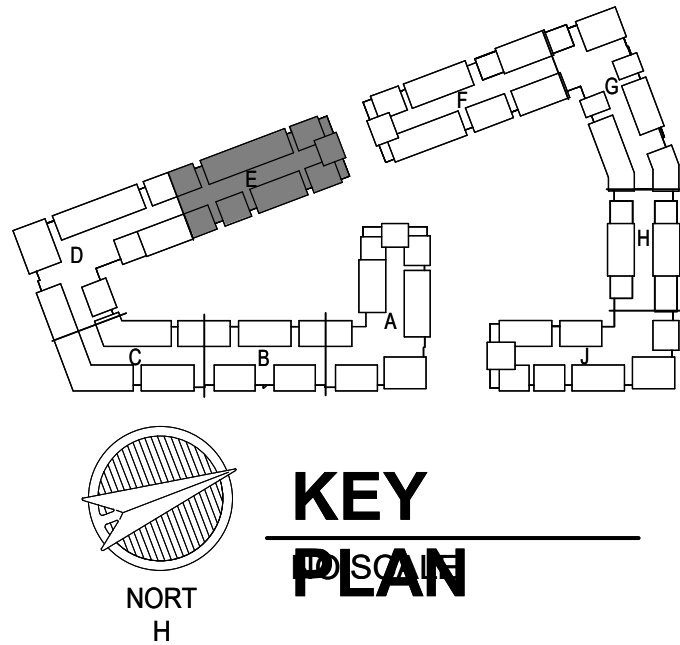
SHEET NO.

E1.19



 **1** **2ND FLOOR - SEGMENT E**
ELECTRICAL
1/8" = 1'-0"

- NOTES:**
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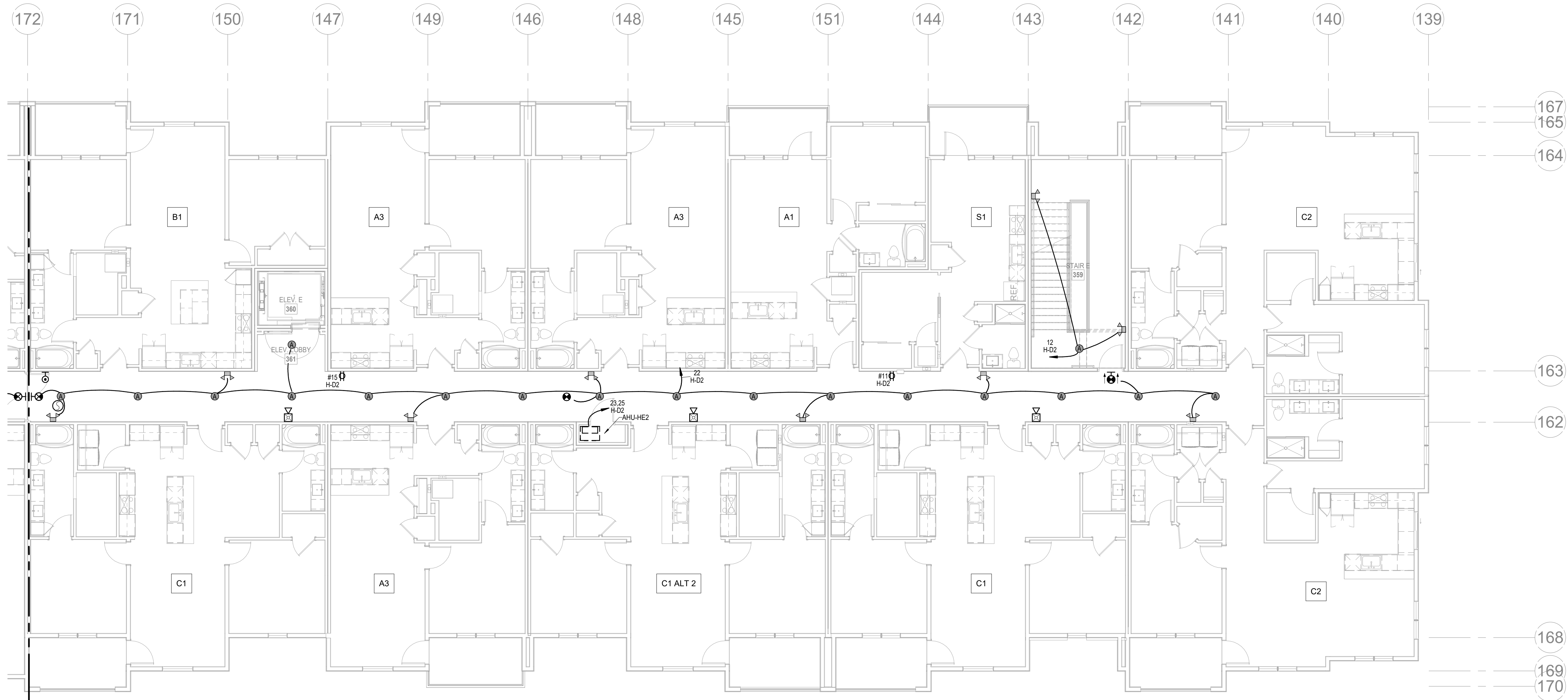
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SEGMENT E - 2ND FLOOR - ELECTRICAL
SHEET NO.

E1.20

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1 3RD FLOOR - SEGMENT E
ELECTRICAL
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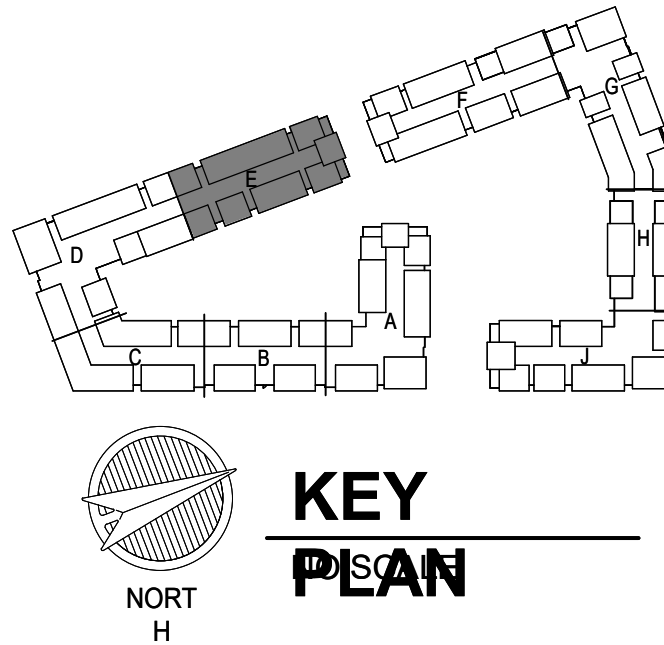
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CITY COMMENTS

SHEET NAME
SEGMENT E - 3RD FLOOR - ELECTRICAL

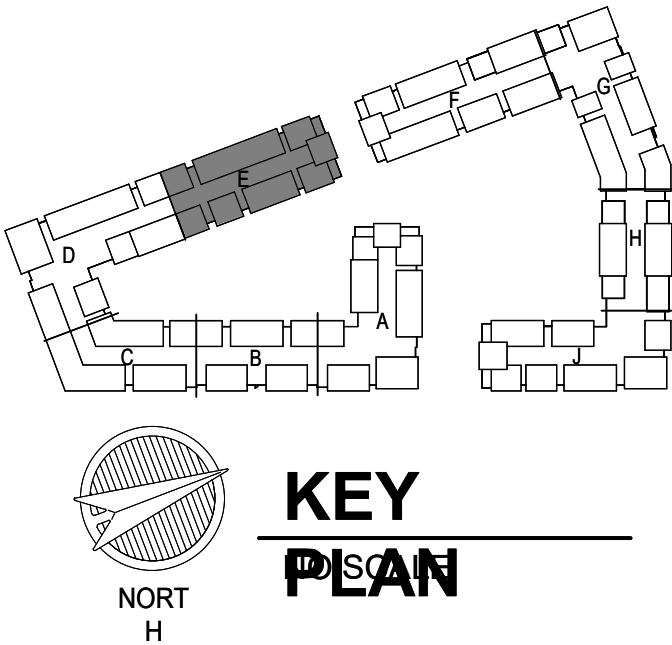
SHEET NO.

E1.21



1 4TH FLOOR - SEGMENT E
ELECTRICAL
1/8" = 1'-0"

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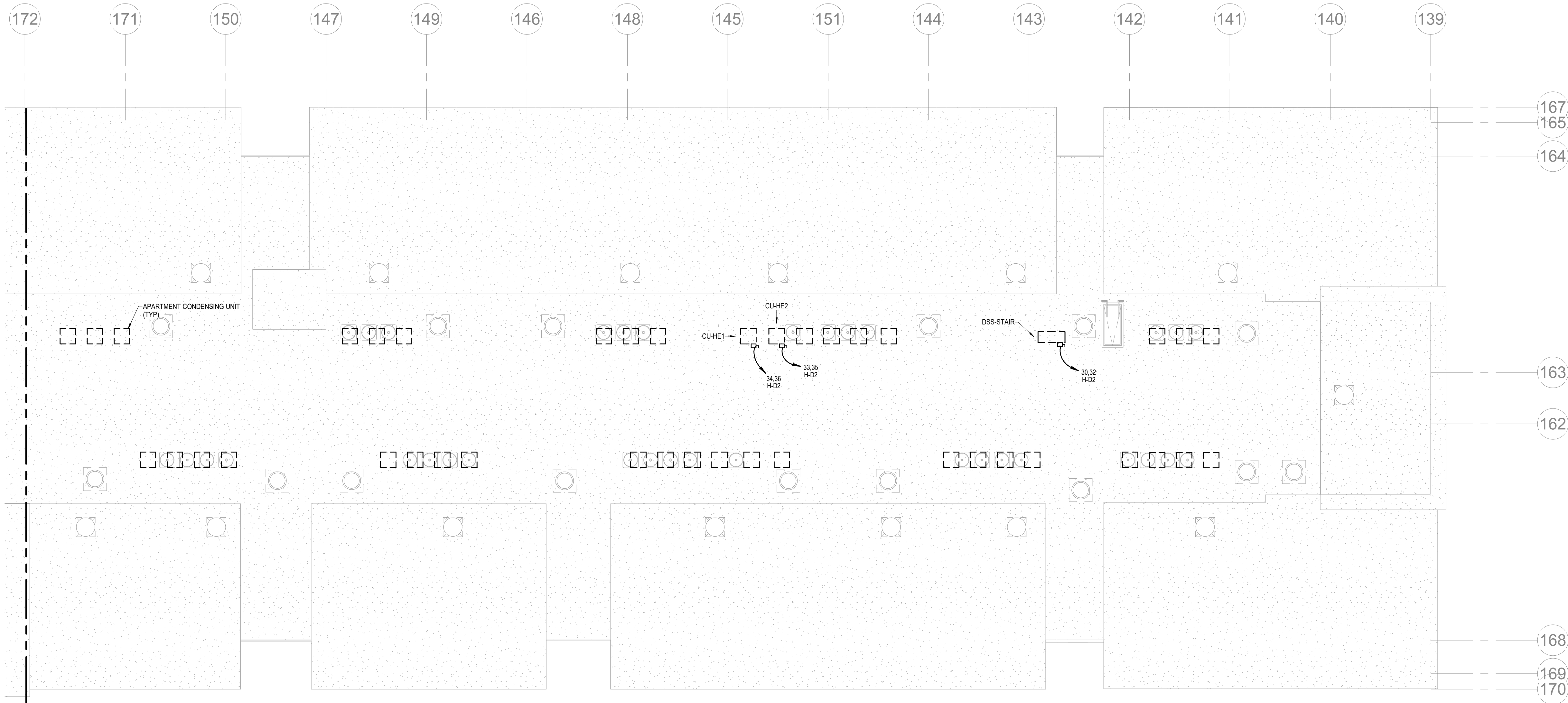
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SHEET NAME
SEGMENT E - 4TH FLOOR - ELECTRICAL
SHEET NO.

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1 ROOF PLAN - SEGMENT E
ELECTRICAL
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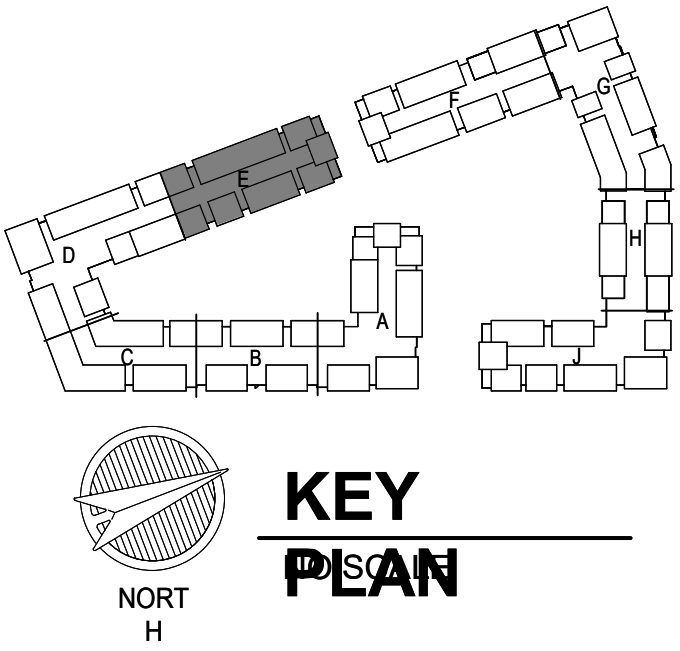
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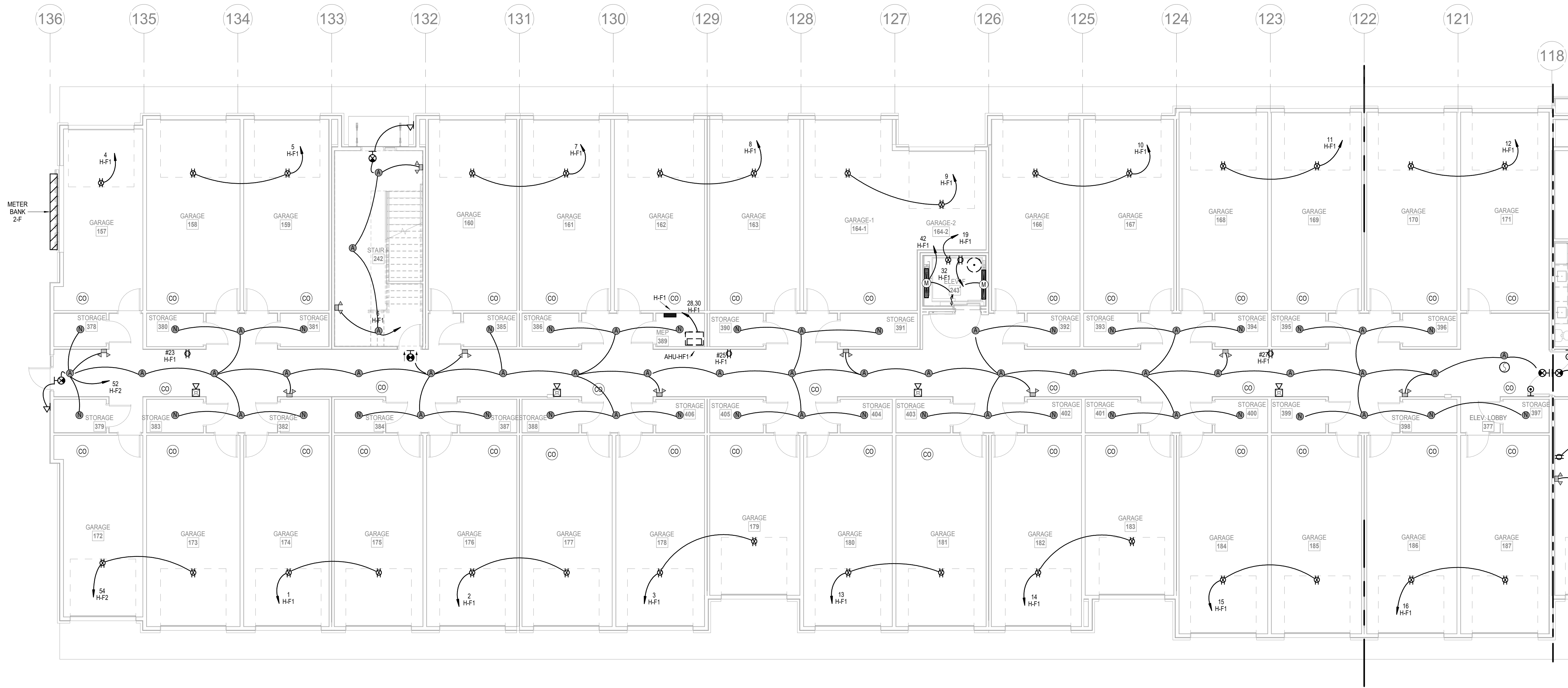
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CITY COMMENTS

SHEET NAME
SEGMENT E - ROOF PLAN - ELECTRICAL

SHEET NO.

E1.23



1 1ST FLOOR - SEGMENT F
ELECTRICAL
1/8" = 1'-0"

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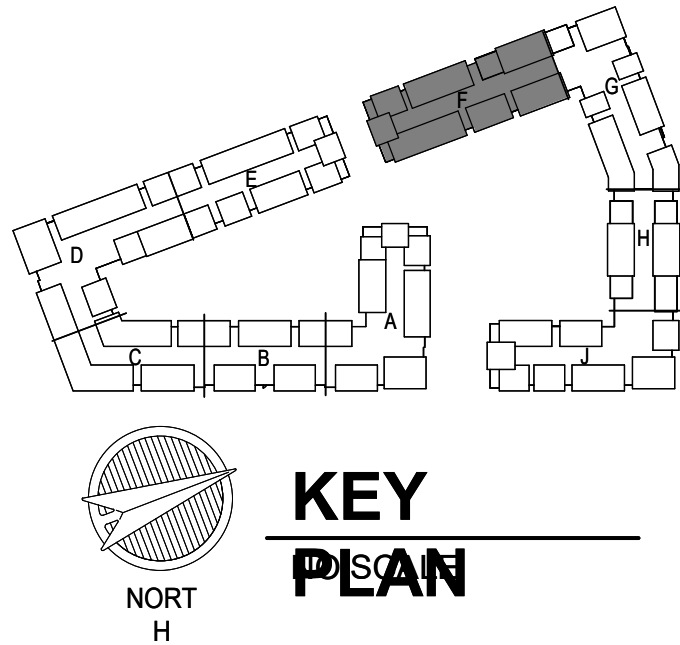
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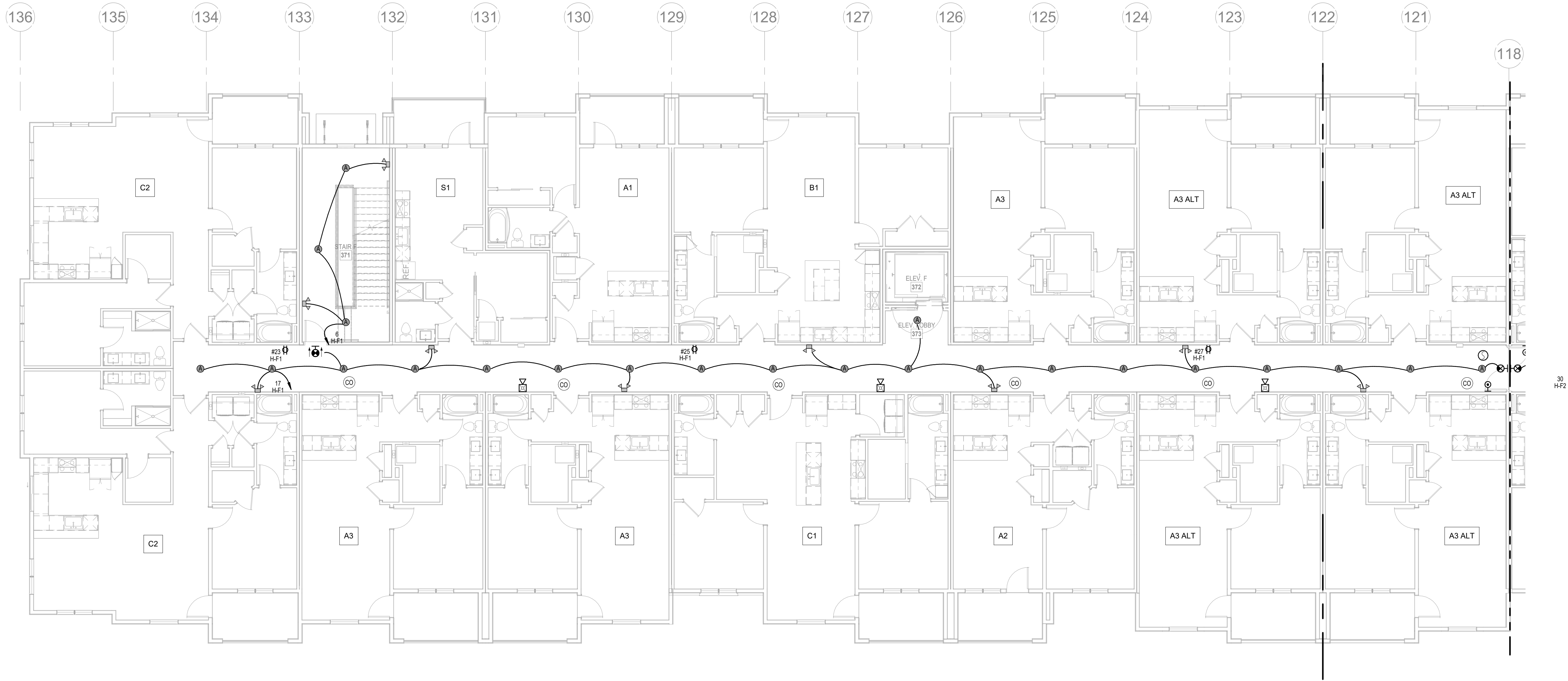


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DRAWN BY LSA CAD
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DATE 03.15.2023

SHEET NAME
SEGMENT F - 1ST FLOOR - ELECTRICAL
SHEET NO.

E1.24



1 2ND FLOOR - SEGMENT F
ELECTRICAL
1/8" = 1'-0"

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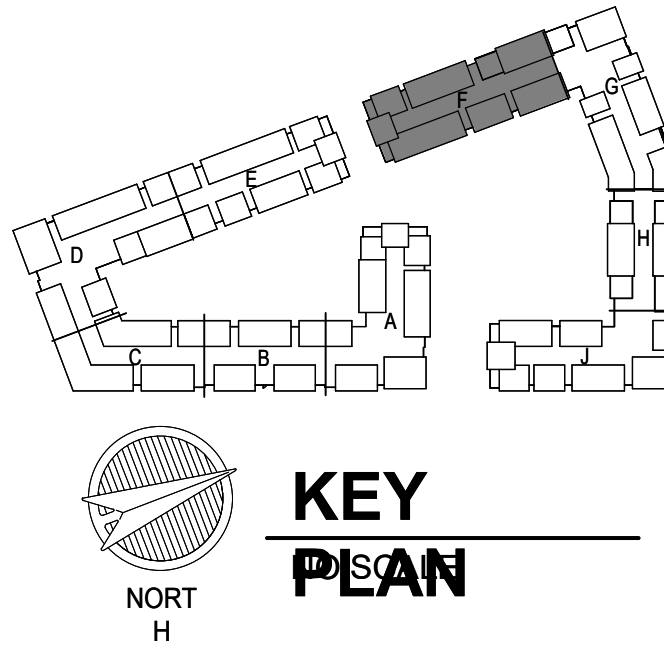
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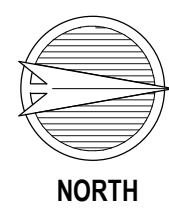
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4/11/2023
CITY COMMENTS
SHEET NAME
SEGMENT F - 2ND FLOOR - ELECTRICAL
SHEET NO.

E1.25

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6625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3332
Email: lsas@lsaspa.com
LSA PROJECT NO. 2204061



1 3RD FLOOR - SEGMENT F
ELECTRICAL
1/8" = 1'-0"

- 
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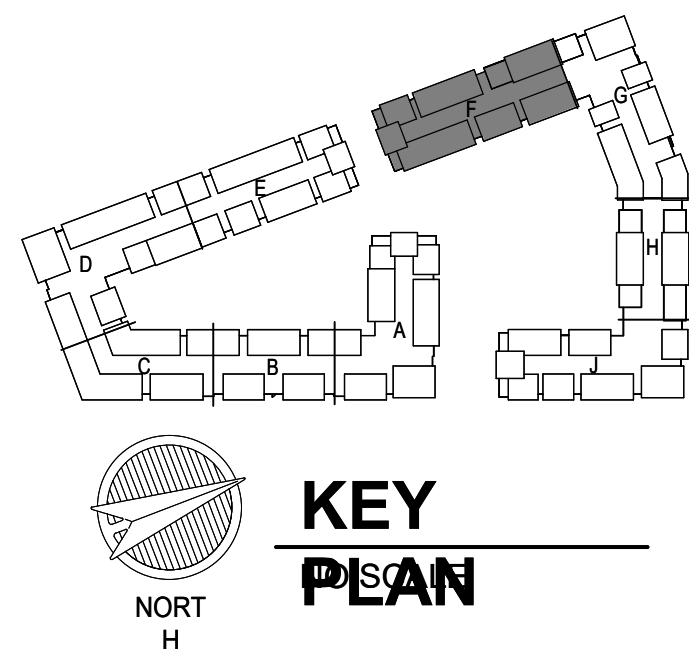
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CITY COMMENTS

SHEET NAME
SEGMENT 5 - 2ND FLOOR

SEGMENT F - 3RD FLOOR - ELECTRICAL

SHEET NO.
E1 06

E1.26

Figure 1



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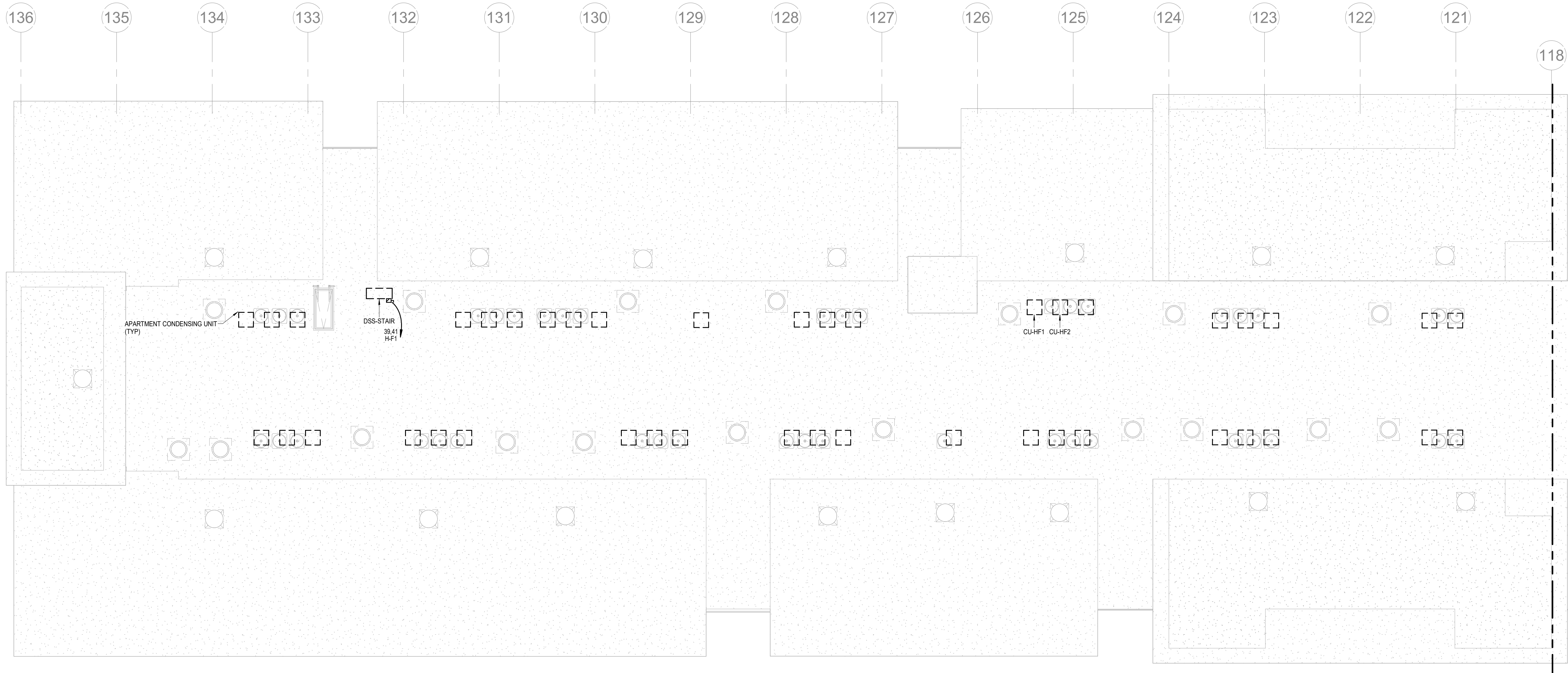
SHEET NAME
SEGMENT 5 - 4TH FLOOR

SEGMENT F - 4TH FLOOR -
ELECTRICAL

SHEET NO.
T1 07

EL.27

RESULTS



1 ROOF PLAN - SEGMENT F
ELECTRICAL
1/8" = 1'-0"

- NOTES:**
- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
 - SEE FIRE SUPPRESSION SUBMITTALS AND INCORPORATE ALL DEVICES INTO FIRE ALARM.
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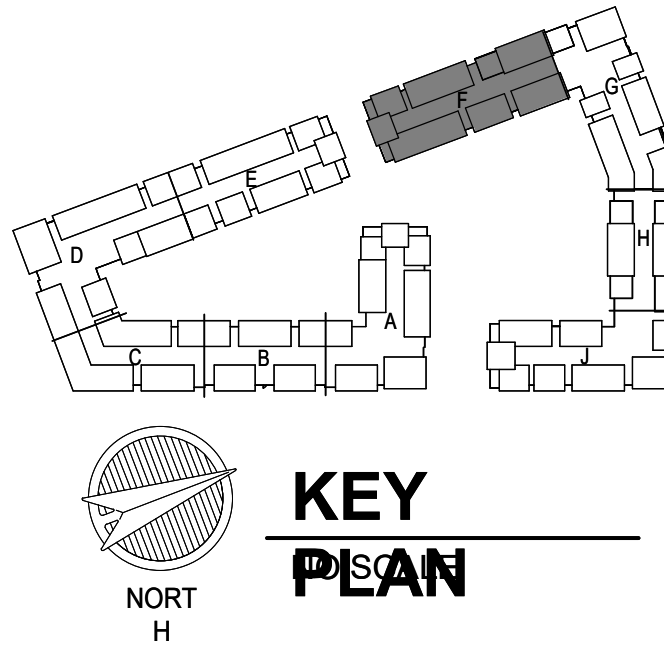
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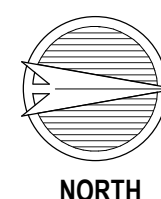
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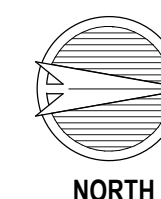
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Email: lsa@lsaa.com
LSA PROJECT NO. 2204061

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CITY COMMENTS
SEGMENT F - ROOF PLAN - ELECTRICAL
SHEET NO.

E1.28



1 1ST FLOOR - SEGMENT G
ELECTRICAL
1/8" = 1'-0"



2 BASEMENT - SEGMENT G
ELECTRICAL
1/8" = 1'-0"

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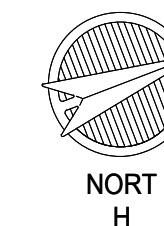
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KEY DISCUSSION

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CITY COMMENTS

SEGMENT G - BASEMENT &

1ST FLOOR
SHEET NO.

E1.29

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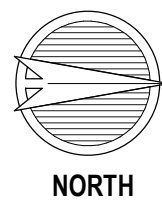
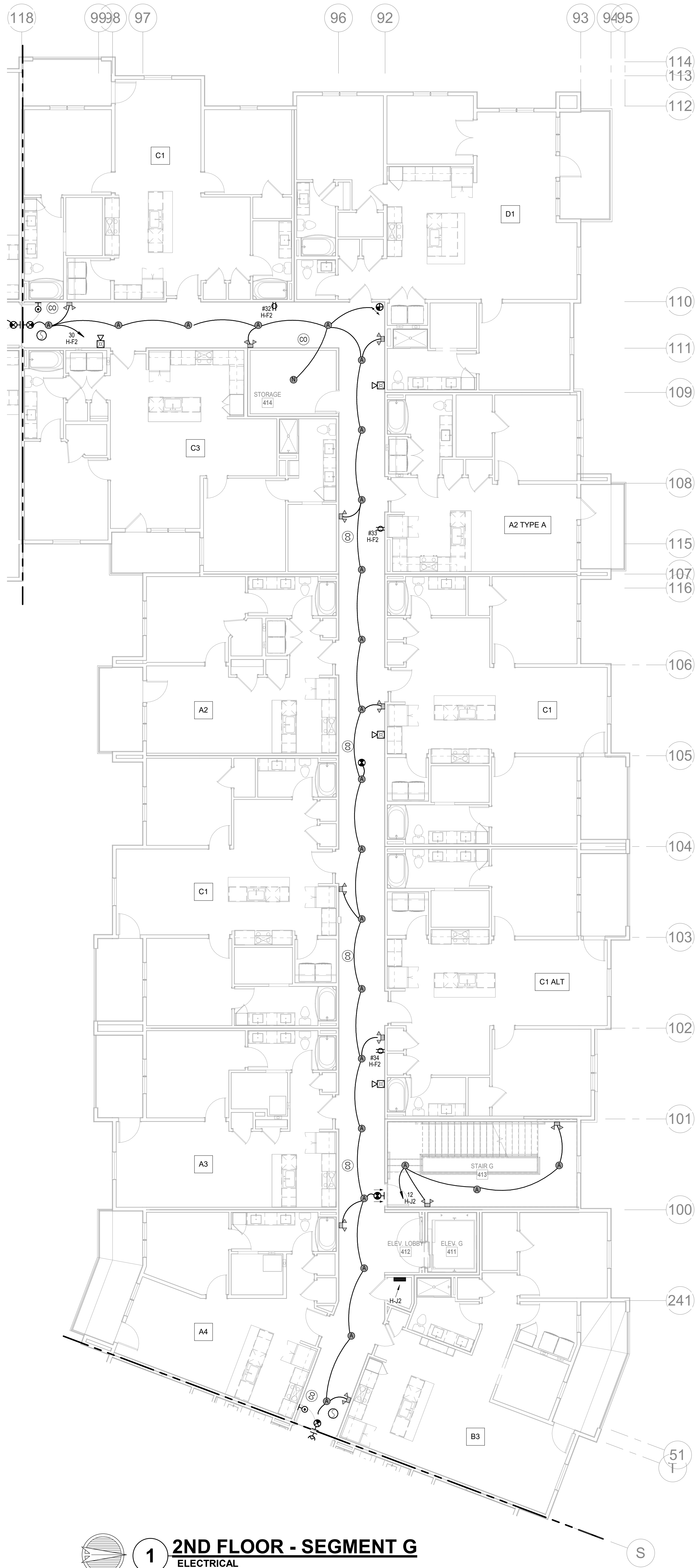
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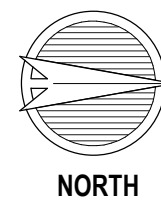
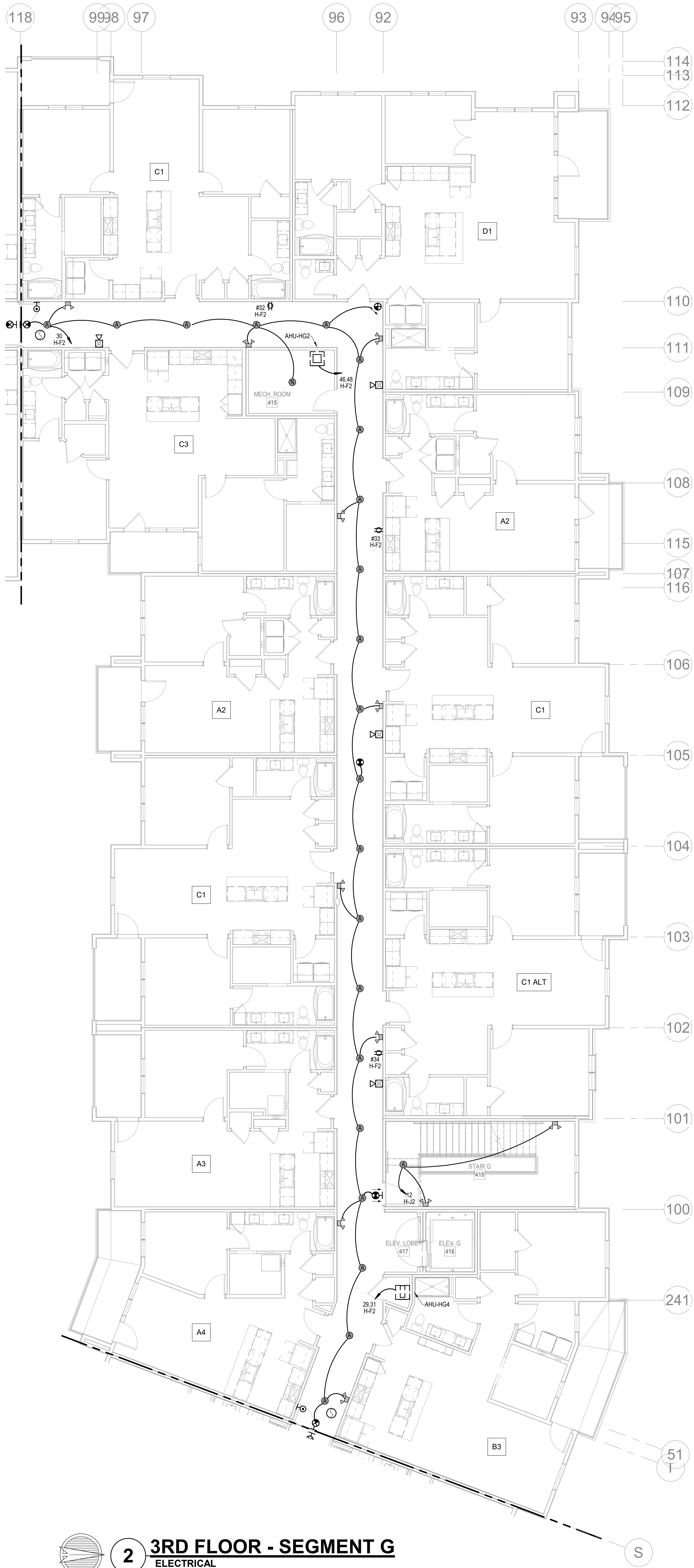
SEGMENT C

1ST FLOOR
SHEET NO.

E1.29

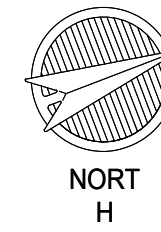
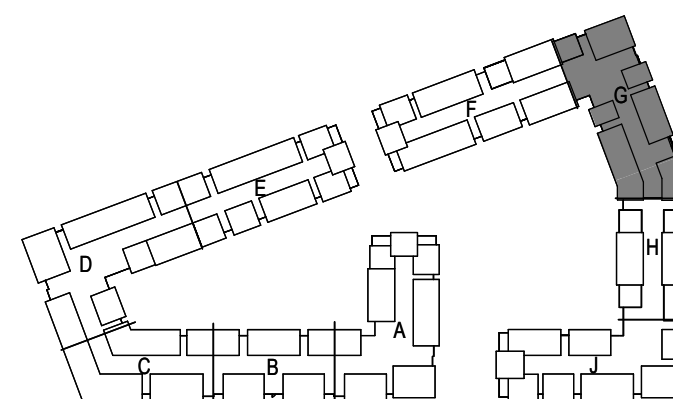


1 2ND FLOOR - SEGMENT G
ELECTRICAL
1/8" = 1'-0"



2 3RD FLOOR - SEGMENT G
ELECTRICAL
1/8" = 1'-0"

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KEY PLAN

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Email: lsapa@lsapa.com
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SHEET NAME

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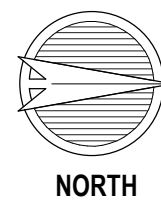
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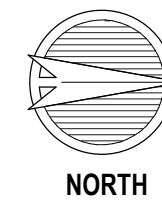
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1 4TH FLOOR - SEGMENT G
ELECTRICAL
1/8" = 1'-0"



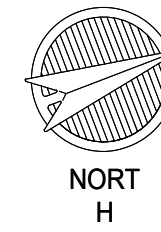
2 ROOF PLAN - SEGMENT G
ELECTRICAL
1/8" = 1'-0"

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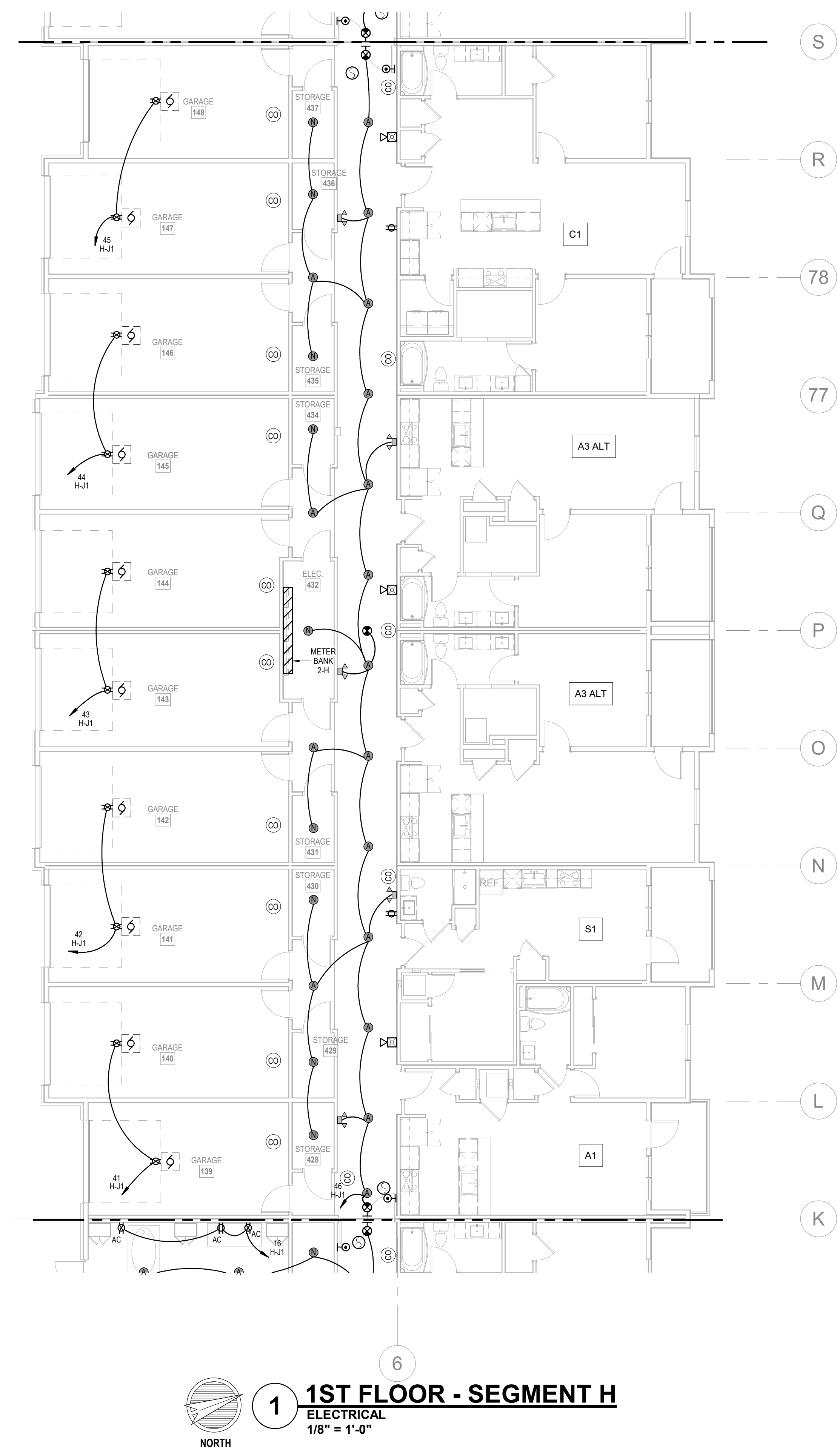
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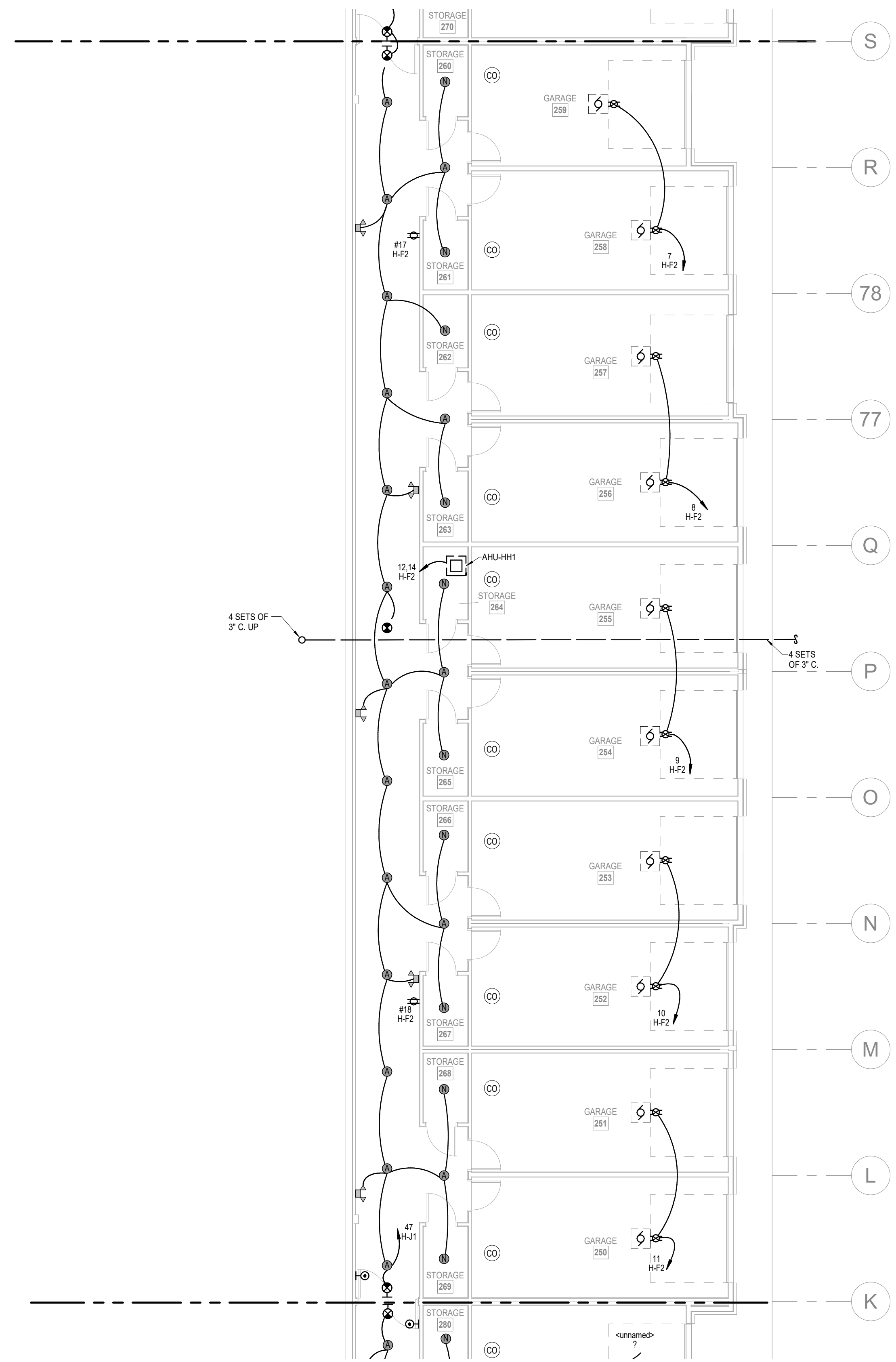
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**SEGMENT G - 4TH FLOOR &
ROOF PLAN - ELECTRICAL**

SHEET NO.

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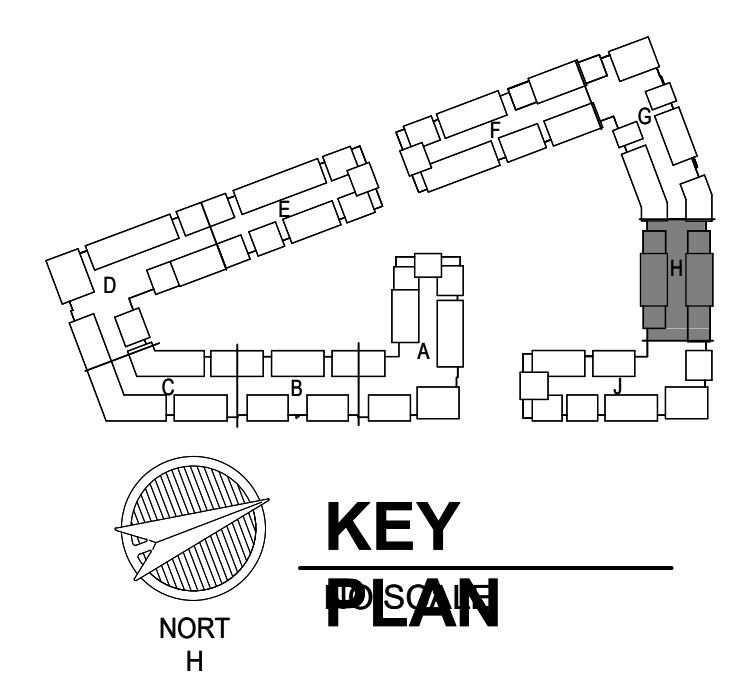


1 1ST FLOOR - SEGMENT H
ELECTRICAL
1/8" = 1'-0"



2 BASEMENT - SEGMENT H
ELECTRICAL
1/8" = 1'-0"

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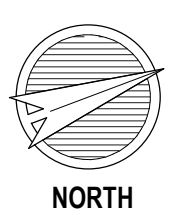
SHEET NAME
SEGMENT H - BASEMENT & 1ST FLOOR - ELECTRICAL
SHEET NO.

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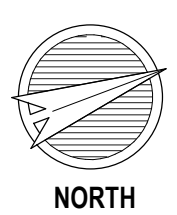
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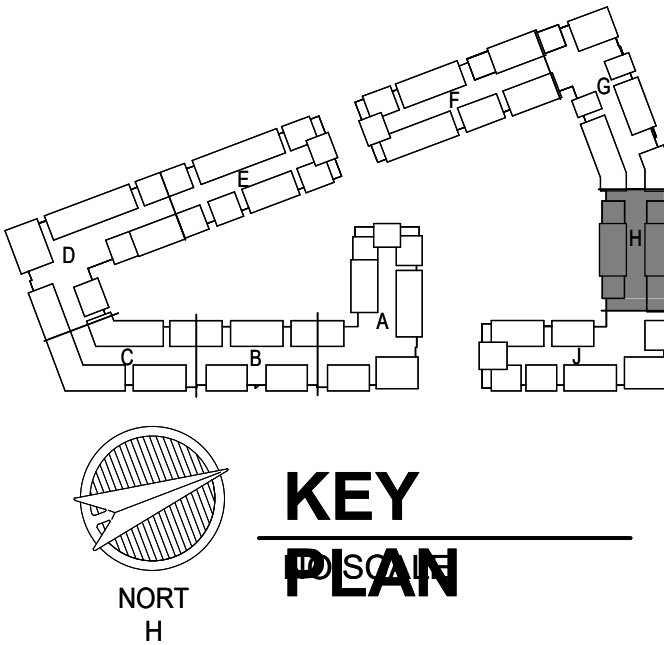


1 3RD FLOOR - SEGMENT H
ELECTRICAL
1/8" = 1'-0"



2 2ND FLOOR - SEGMENT H
ELECTRICAL
1/8" = 1'-0"

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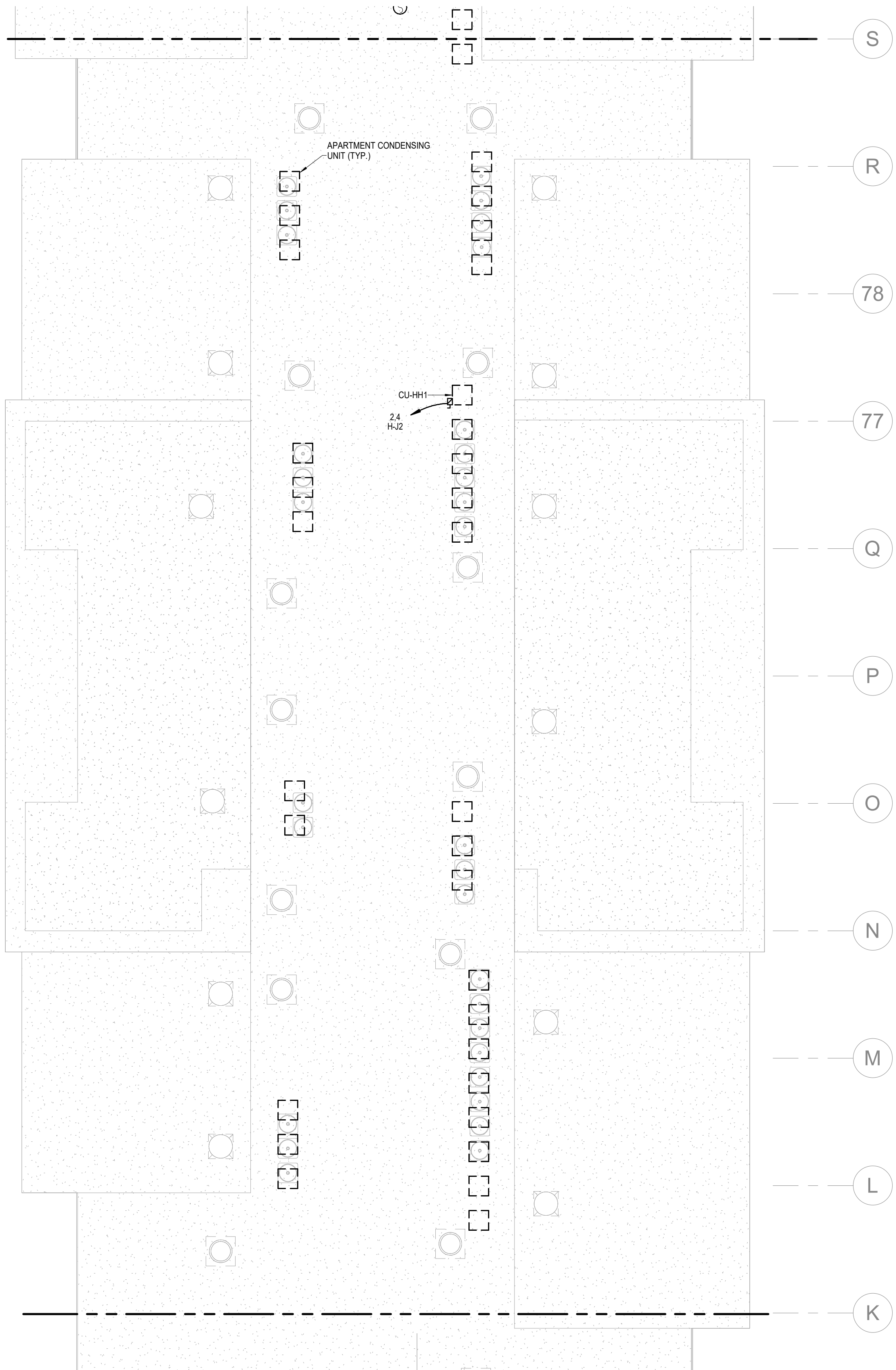
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SHEET NO.

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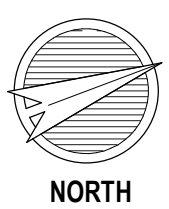
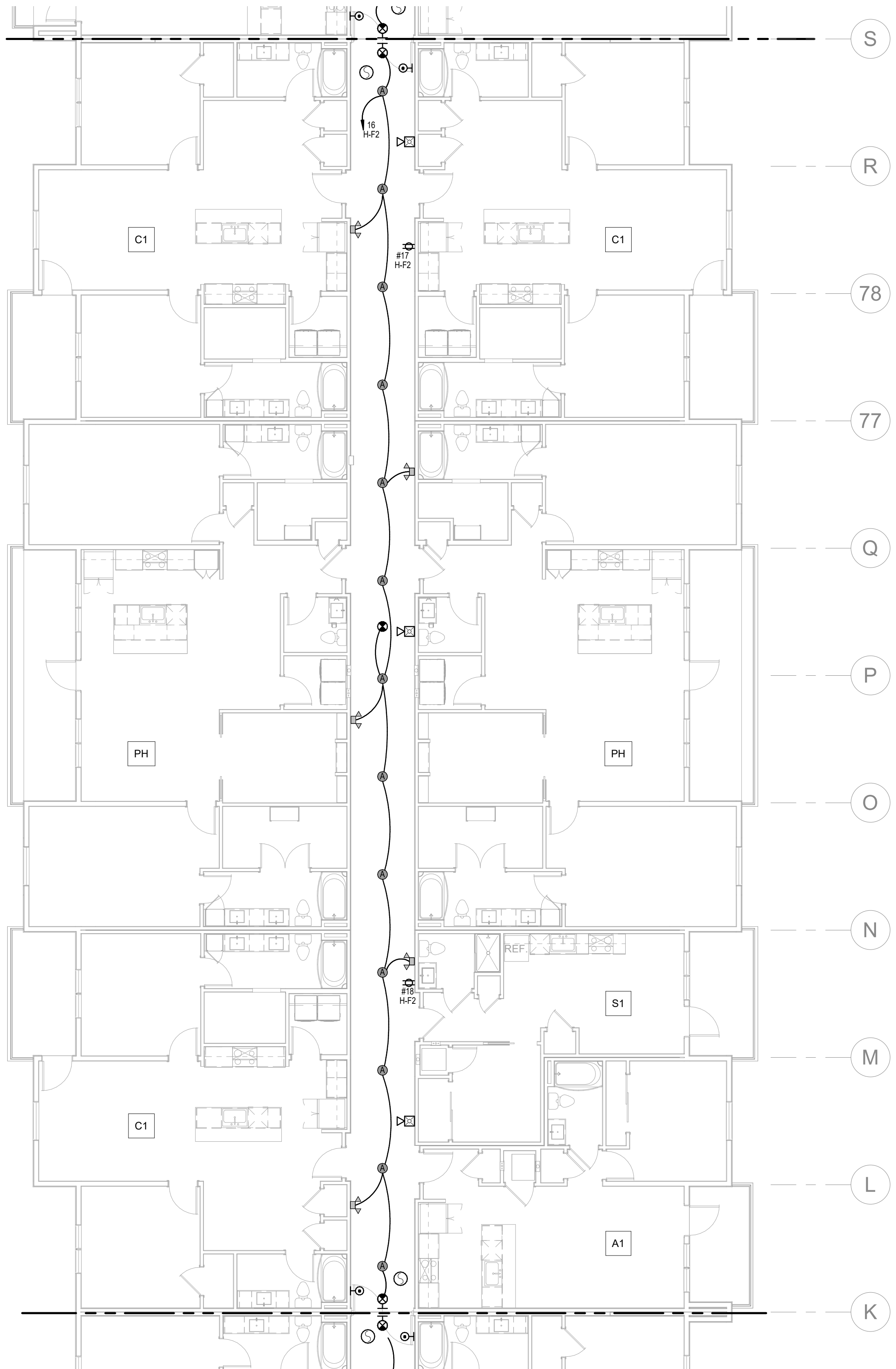
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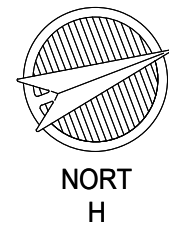
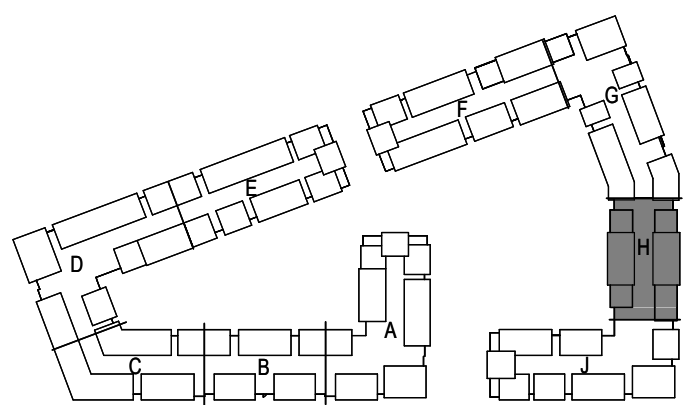


1 ROOF PLAN - SEGMENT H
ELECTRICAL
1/8" = 1'-0"



2 4TH FLOOR - SEGMENT H
ELECTRICAL
1/8" = 1'-0"

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KEY PLAN

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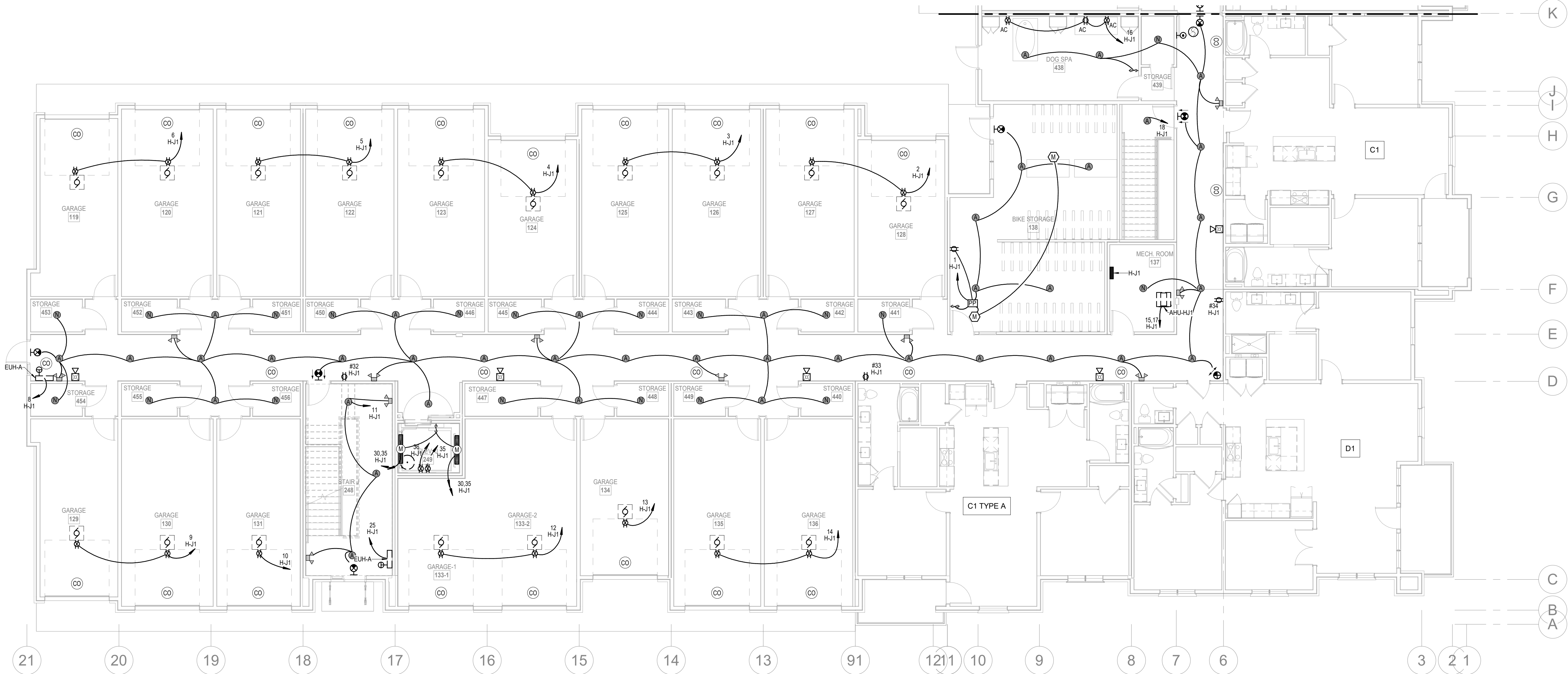
ROOF PLAN - ELECTRICAL

SHEET NO.

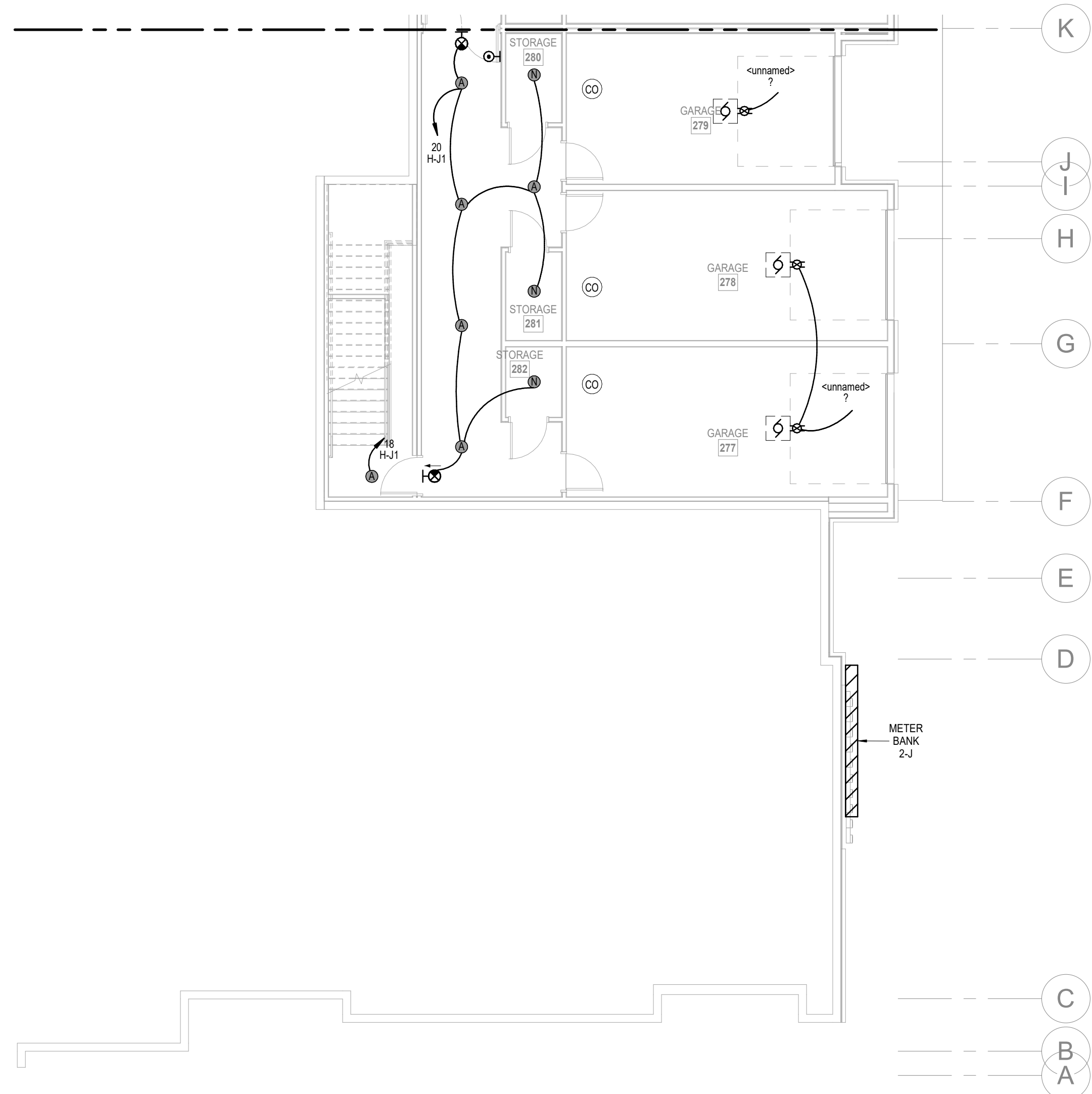
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1 1ST FLOOR - SEGMENT J
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2 BASEMENT - SEGMENT J
ELECTRICAL
1/8" = 1'-0"

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 - ALL DISC FIXTURES ARE TYPE A UNLESS NOTED OTHERWISE
ALL CLOSET FIXTURES ARE TYPE N UNLESS NOTED OTHERWISE
ALL FIXTURES ARE TYPE X1 UNLESS NOTED OTHERWISE
ALL FIXTURES ARE TYPE X2 UNLESS NOTED OTHERWISE
ALL FIXTURES ARE TYPE X3 UNLESS NOTED OTHERWISE
ALL FIXTURES ARE TYPE X4 UNLESS NOTED OTHERWISE
 - LIGHTING AND RECEPTACLES IN STAIR TOWER TO BE ON SINGLE CIRCUIT.
 - VERTICALLY ALIGNED FLOOR TO FLOOR RECEPTACLES TO BE ON SINGLE CIRCUIT
 - REVIEW HVAC PLANS FOR FIRE/SMOKE DAMPERS AND CONNECT TO 120V AND FIRE ALARM.

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STATE OF MISSOURI
BOARDS & COMMISSIONS
REGISTERED PROFESSIONAL ENGINEER
No. 14466
03/15/2023

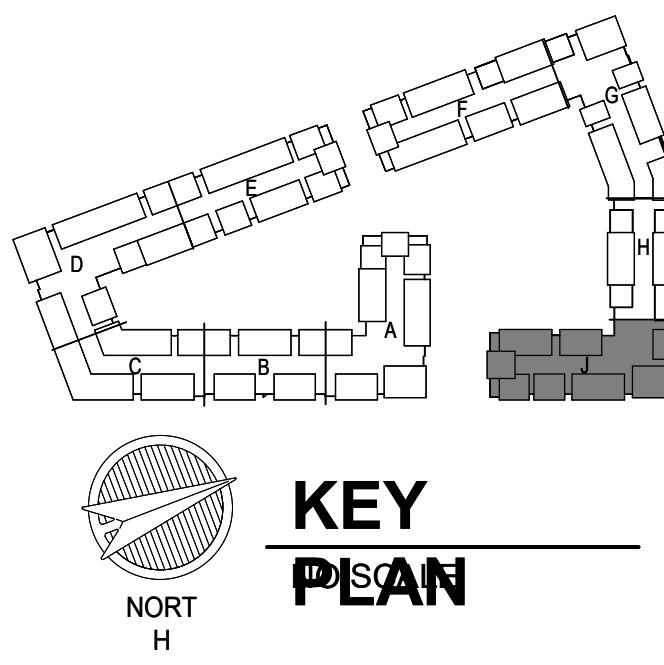
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Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DRAWN BY LSA CAD
4/11/2023
SHEET NAME CITY COMMENTS
SEGMENT J - BASEMENT & 1ST FLOOR - ELECTRICAL
SHEET NO.

DATE 03.15.2023

E1.35



1 2ND FLOOR - SEGMENT J
ELECTRICAL
1/8" = 1'-0"



2 3RD FLOOR - SEGMENT J
ELECTRICAL
1/8" = 1'-0"

- NOTES:**
- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
 - SEE FIRE SUPPRESSION SUBMITTALS AND INCORPORATE ALL DEVICES INTO FIRE ALARM.
 - EXIT LIGHTS SHALL BE VISIBLE TO OCCUPANTS.
 - PROVIDE NEC CLEARANCES FOR ALL PANELS AND ELECTRICAL EQUIPMENT.
 - FOLLOW THE DRAWINGS FOR HOME RUNS AND CIRCUIT NUMBERS. DO NOT COMBINE CIRCUITS IN LARGER CONDUITS UNLESS PRE-APPROVED BY THE ENGINEER.
 - LABEL ALL JUNCTION BOXES AS TO THE PANEL AND CIRCUIT NUMBER SERVED.
 - PANEL DIRECTORIES SHALL BE SPECIFIC TO THE ROOMS/EQUIPMENT SERVED.
 - SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS.
 - SEE TELECOM DETAILS FOR MISCELLANEOUS POWER NEEDS.
 - ALL DISC FIXTURES ARE TYPE A UNLESS NOTED OTHERWISE
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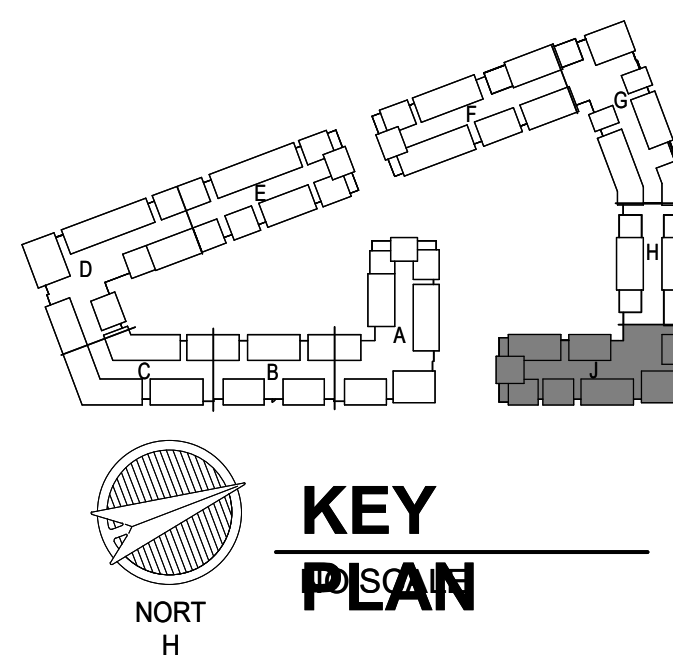
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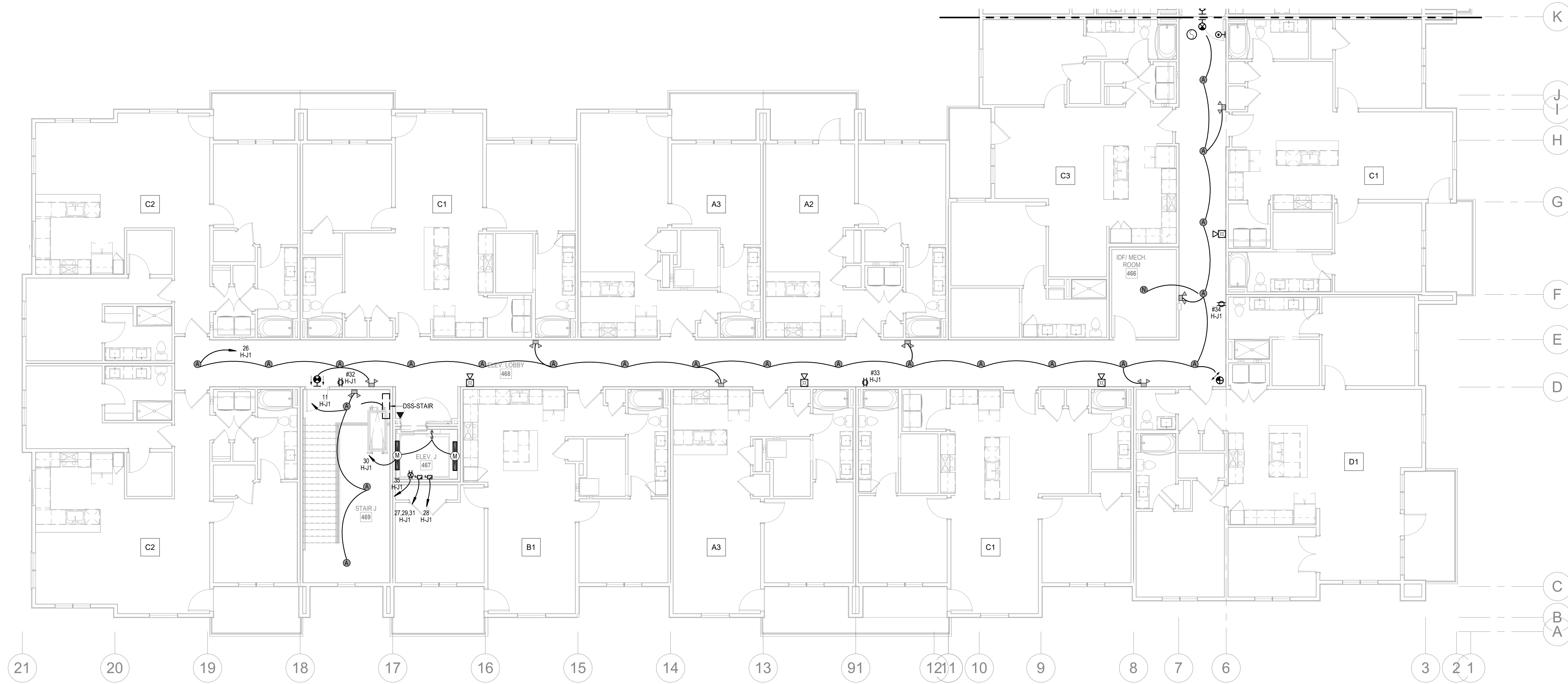
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Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

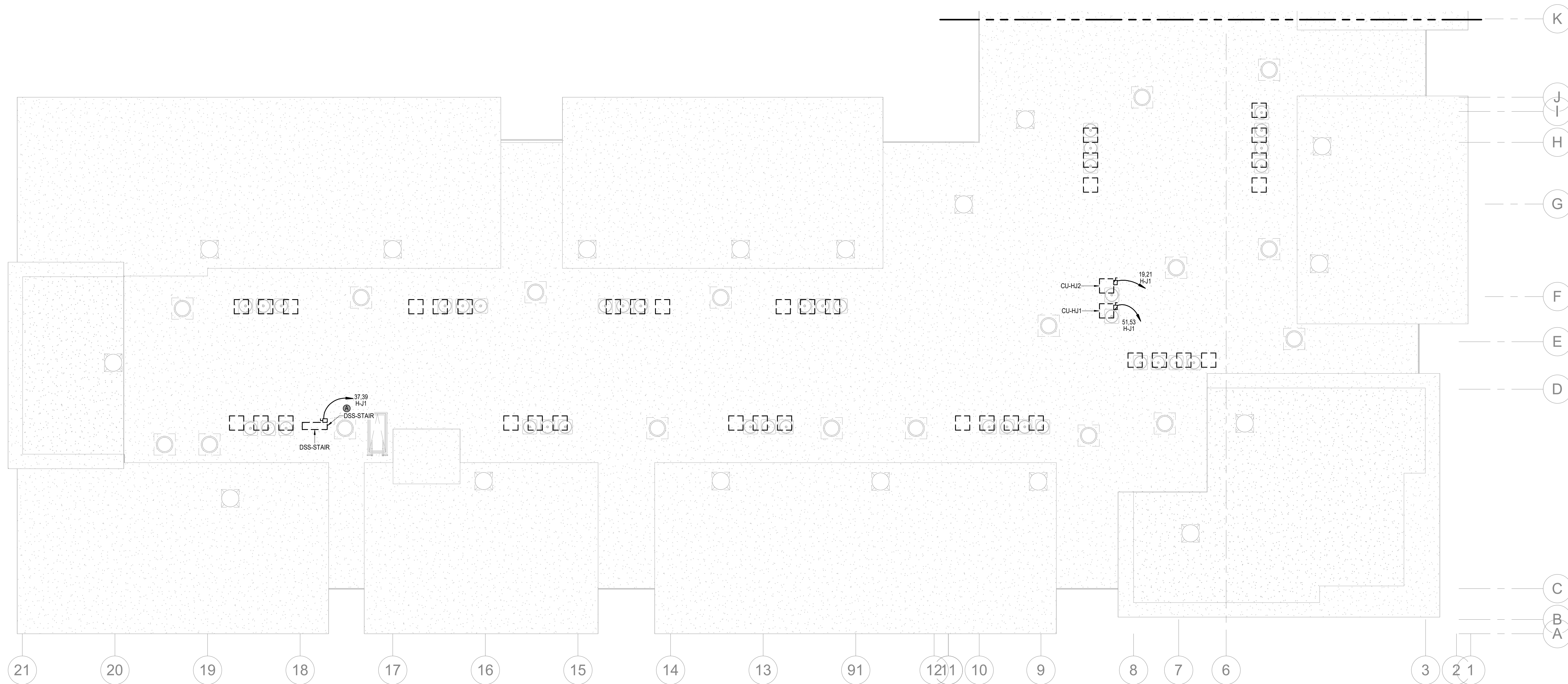
JOB NO. 705921
DRAWN BY LSA CAD
4/11/2023

SHEET NAME
SEGMENT J - 2ND & 3RD
FLOOR - ELECTRICAL
SHEET NO.

E1.36



1 4TH FLOOR - SEGMENT J
ELECTRICAL
1/8" = 1'-0"



2 ROOF PLAN - SEGMENT J
ELECTRICAL
1/8" = 1'-0"

- NOTES:**
- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
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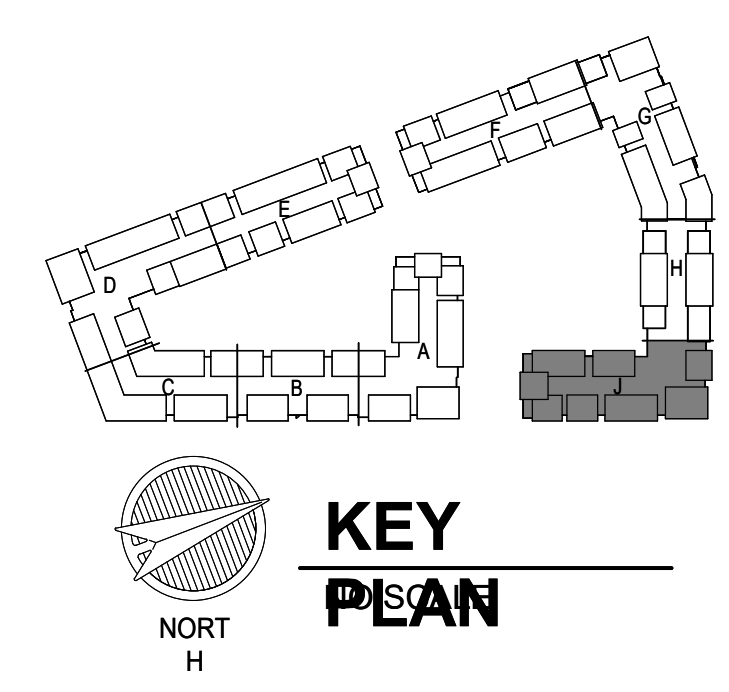
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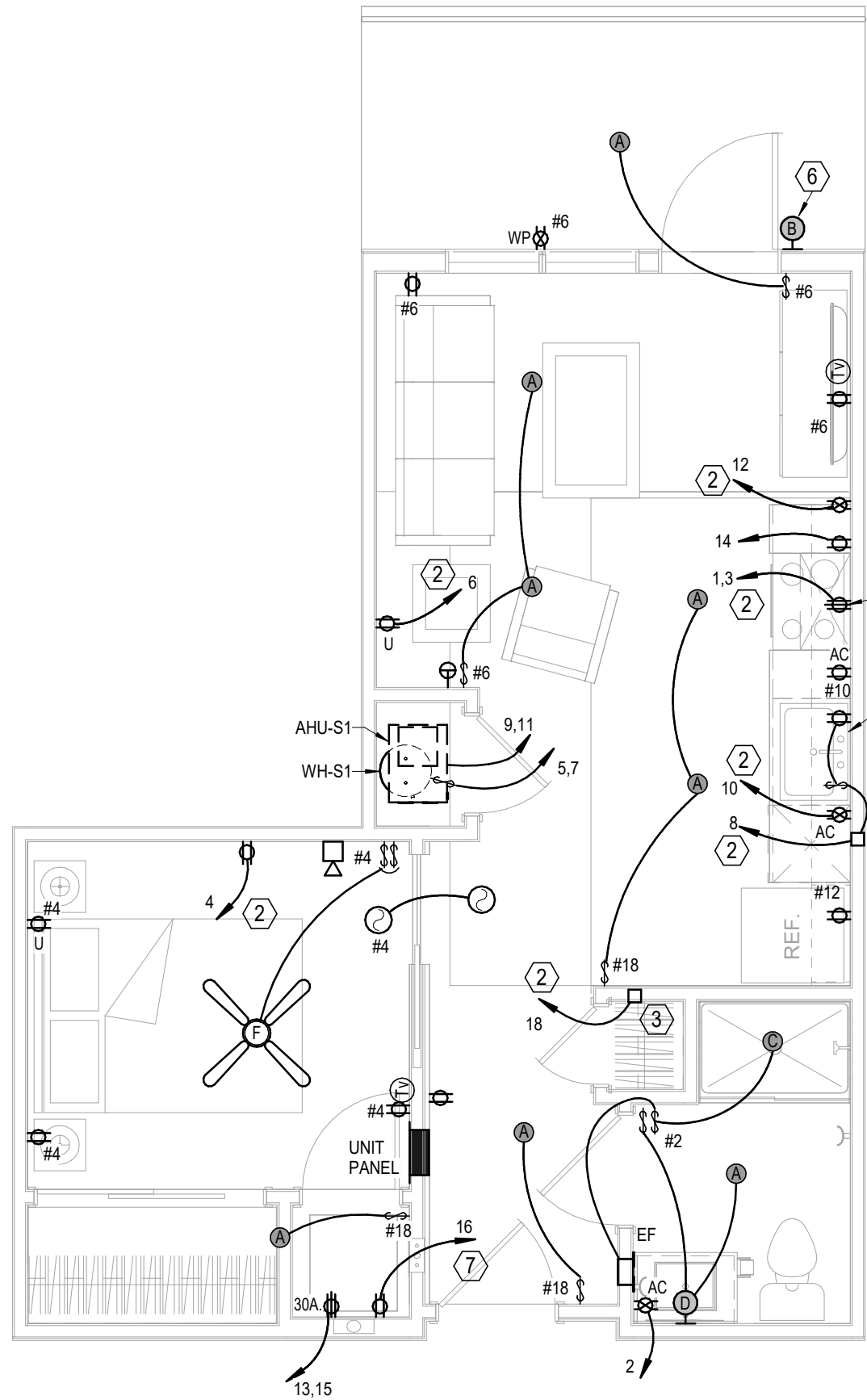
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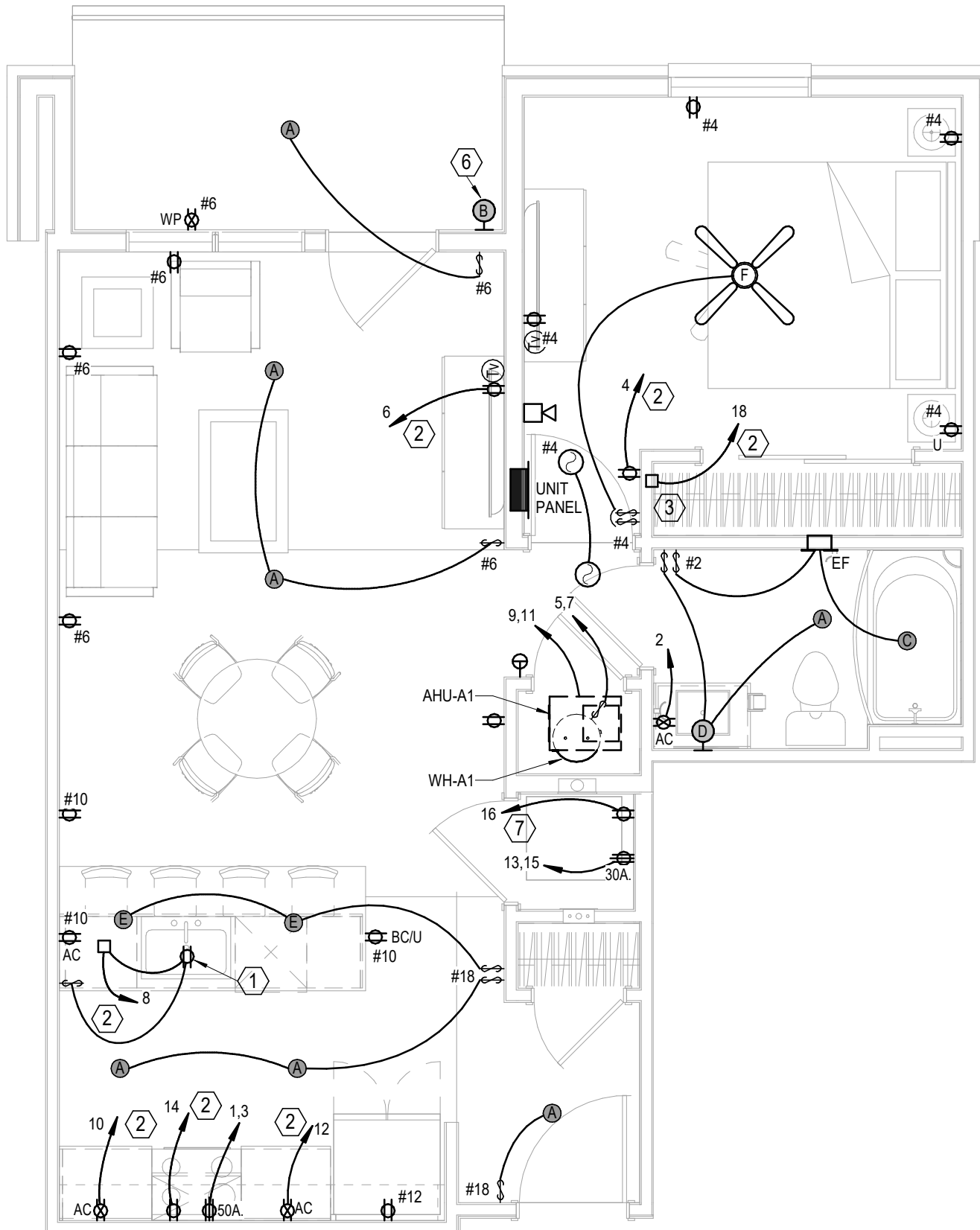
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Telephone: (785) 233-3332
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DRAWN BY LSA CAD
4/11/2023
SHEET NAME CITY COMMENTS
SEGMENT J - 4TH FLOOR & ROOF PLAN - ELECTRICAL
SHEET NO.

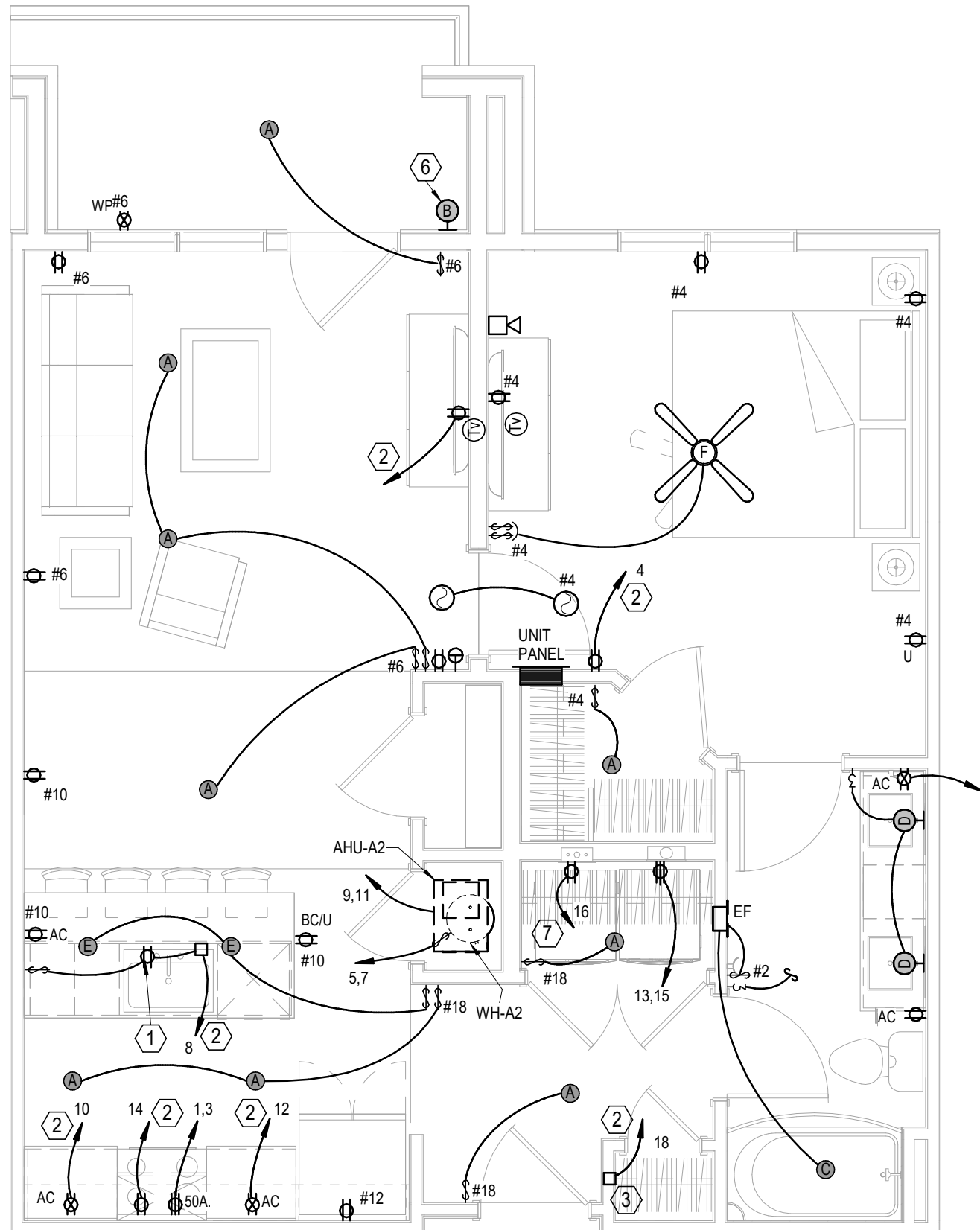
DATE 03.15.2023



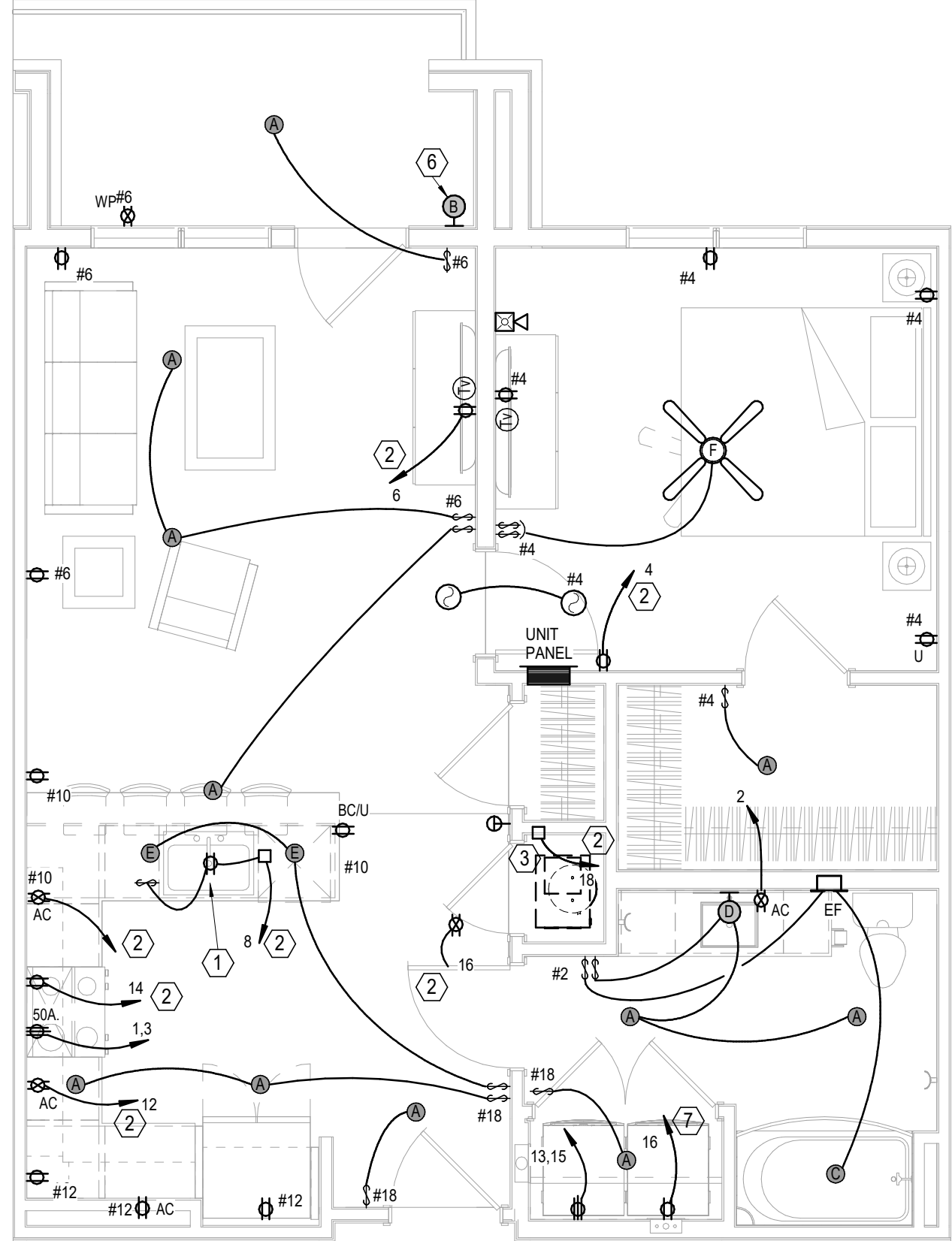
1 UNIT S1
ELECTRICAL
1/4" = 1'-0"



2 UNIT A1
ELECTRICAL
1/4" = 1'-0"



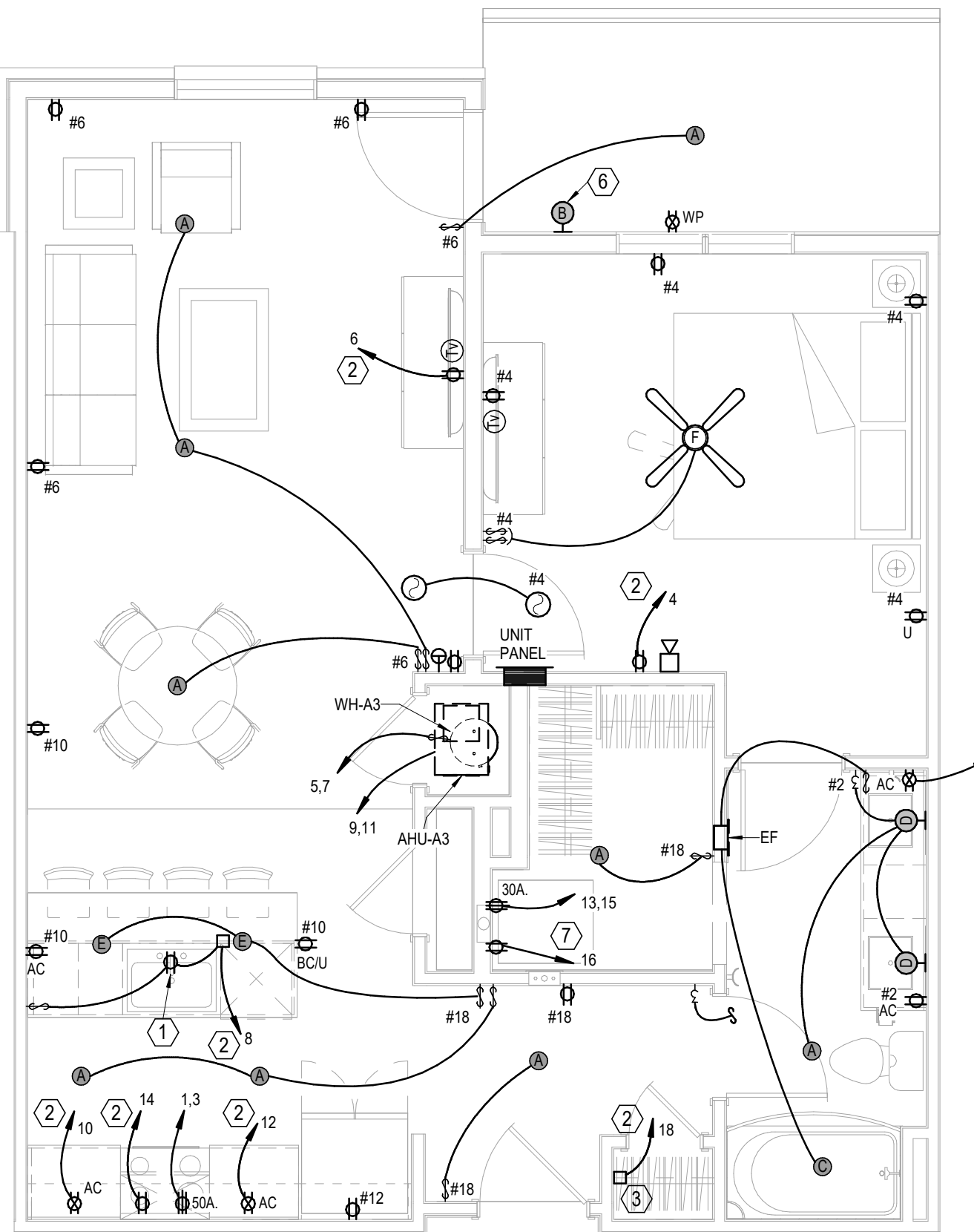
3 UNIT A2
ELECTRICAL
1/4" = 1'-0"



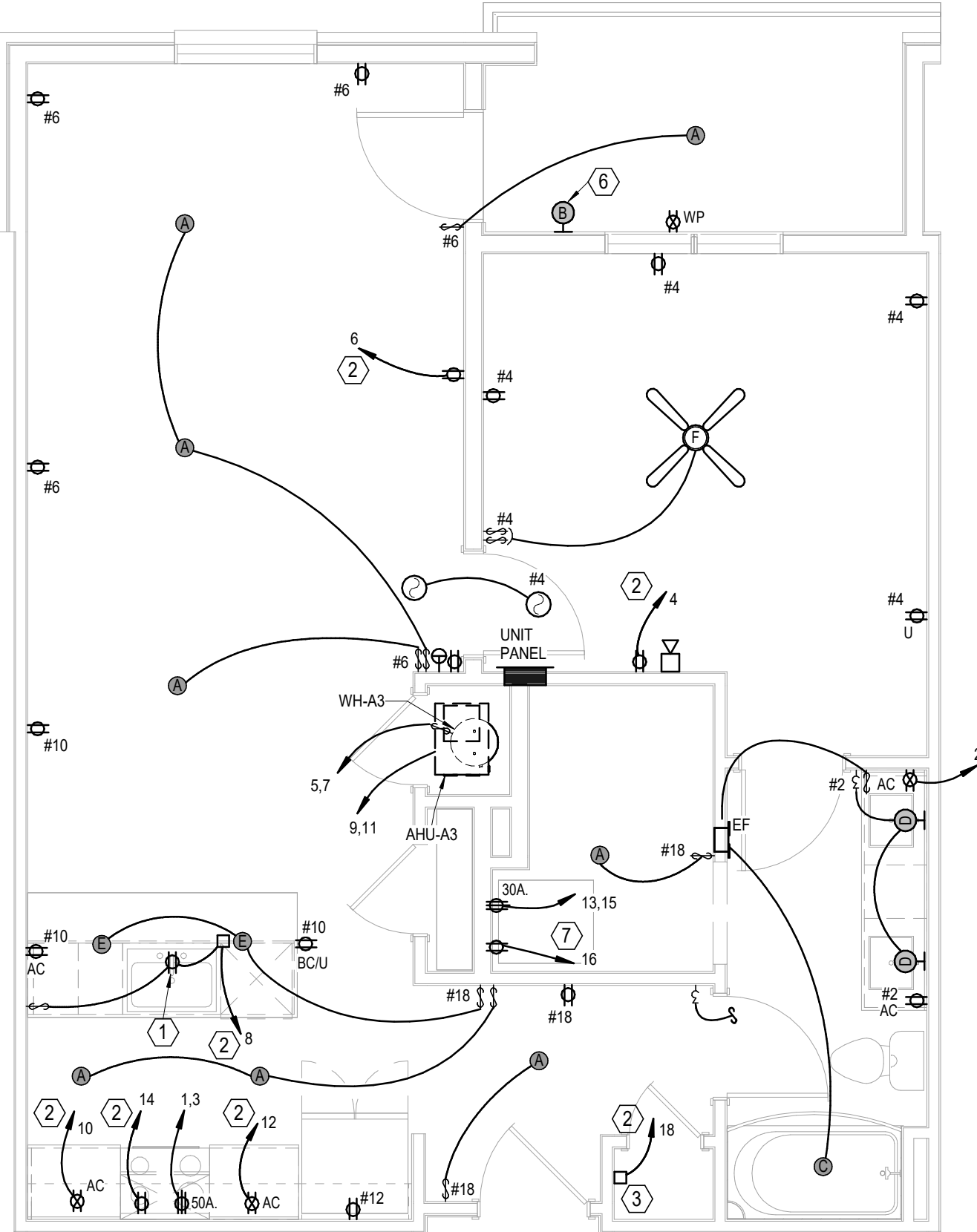
4 UNIT A2 TYPE A
ELECTRICAL
1/4" = 1'-0"

- UNIT ELECTRICAL NOTES:**
1. CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX.
 2. CENTER KITCHEN ISLAND PENDANT LIGHTS OVER BASE BACK WALL AND CENTERED EQUALLY LEFT TO RIGHT OVER SINK. THESE ARE SEPARATELY SWITCHED.
 3. GENERALLY CENTER LIGHT ON WINDOWS, DOOR, HALLWAYS, SINKS, OVER TUBS, ETC. VERIFY ALL LOCATIONS IN EACH UNIT DIMENSIONALLY WITH ARCHITECT, INTERIOR DESIGNER AND OWNER. MOUNT SWITCHES CLOSE TO DOORS OR WALL CORNERS.
 4. THERMOSTATS HAVE LOW VOLTAGE WIRE BACK TO AHU. CONDENSING UNITS HAVE LOW VOLTAGE WIRE BACK TO AHU.
 6. ② = 120V. SMOKE ALARM WITH BATTERY BACK-UP AND AUXILIARY CONTACT SO ALL SOUND TOGETHER.
 7. CO ALARM JUST OUTSIDE BEDROOMS ONLY AND NOT TWO FLOORS ABOVE GARAGE LEVEL. BLDG 3 AND 4 HAVE NO CO ALARMS.
 8. ALL ARC—FAULT CIRCUIT BREAKERS SHALL BE COMPATIBLE WITH CEILING FANS, COMPACT AND STANDARD FLUORESCENT AND LED LAMP/FIXTURES AND OTHER ELECTRONIC DEVICES.
 9. PROVIDE PROTECTION AT ELECTRICAL BOXES AT RATED CEILING MEMBRANES PER IBC 712.4.1.2(2). BOXES TO BE LISTED FOR RATED MEMBRANES. NOT EXCEED 16 SQUARE INCHES. NOT COMBINE FOR MORE THAN 100 SQUARE INCHES IN 100 SQUARE FEET AND ANNULAR SPACE NOT EXCEED 1/8".
 10. FIRE ALARM HORN/STROBE CIRCUITS SHALL BE SIZED TO ACCEPT BEDROOM HORN/STROBES IN FUTURE INCLUDING WIRING AND PANEL CAPACITY.
 11. ALL RANGES SERVED BY (3) #8 A (1) # 10 AND 50A RECEPTACLE.
 12. ALL WATER HEATERS SERVED BY (3) #10. ALL DRYERS SERVED BY (4) #10 AND 30A RECEPTACLE.
 13. ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48".
 14. MOUNT TV OUTLET AND ADJACENT PLUG AT 48" IN LIVING ROOMS AND BEDROOMS.
 15. SEE HVAC SCHEDULE AND SHOP DRAWINGS FOR AHU AND HEAT PUMP CIRCUITS.
 16. MOUNT TOP BREAKER IN UNIT PANELS AT 48" AFF.
 17. BELOW COUNTER RECEPTACLES AND PLATES SHALL MATCH THE BASE CABINET'S WHERE THEY ARE MOUNTED (BROWN, WHITE, ETC.) VERIFY WITH ARCHITECT.
 18. PROVIDE ALTERNATE FOR ARC-FAULT CIRCUITS AS SHOWN. BASE BID TO HAVE ARC-FAULT ON BEDROOM AND LIVING ROOM CKTS ONLY.

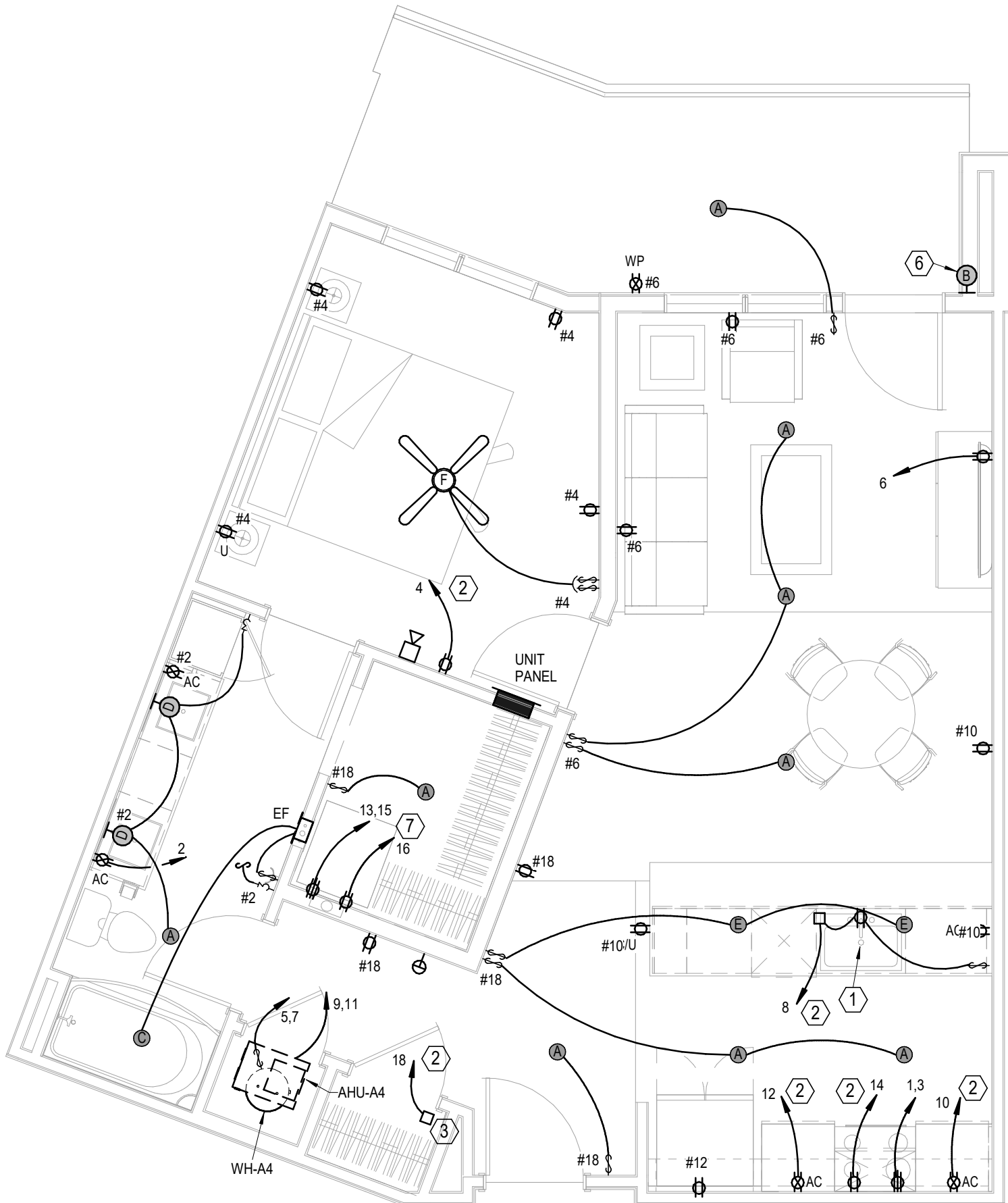
- LEGEND:**
- ① SWITCHED RECEPTABLE FOR GARBAGE DISPOSER. CONTINUE CIRCUIT TO DISHWASHER. TO GFI BREAKER.
 - ② PROVIDE ARC-FAULT BREAKER IN PANEL.
 - ③ TELE/TV DEMARK FLUSH BOX WITH DUPLEX OUTLET. SEE DETAIL.
 - ④ SWITCHES FOR OVERHEAD MW FAN & LIGHT.
 - ⑤ SMOKE ALARM TO HAVE STROBES.
 - ⑥ TOP FLOOR UNITS TO RECEIVE WALL SCONE TYPE "B".
 - ⑦ TO COMBINATION GFI AND ARC FAULT BREAKER.



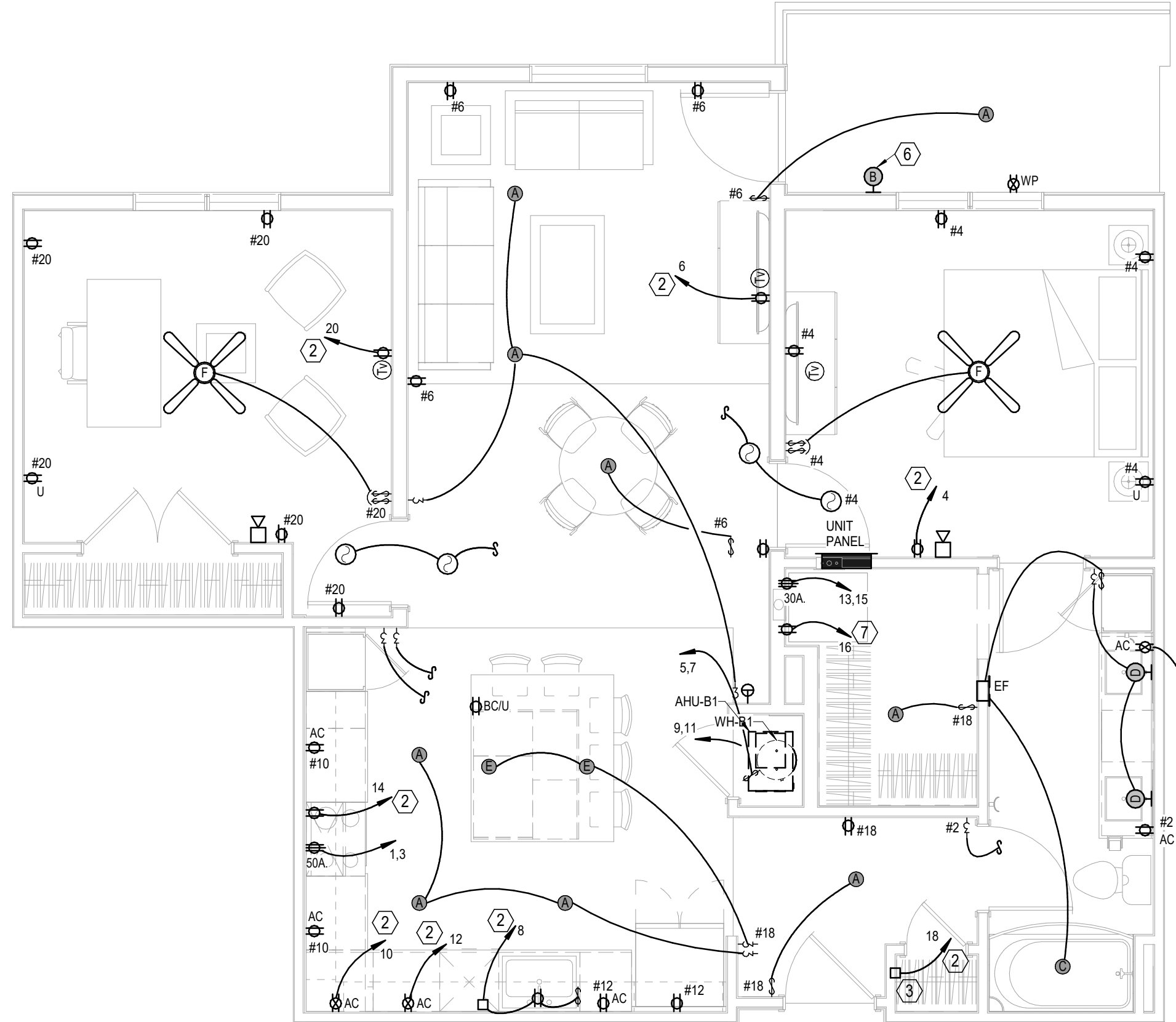
5 UNIT A3
ELECTRICAL
1/4" = 1'-0"



6 UNIT A3 ALT 1
ELECTRICAL
1/4" = 1'-0"



7 UNIT A4
ELECTRICAL
1/4" = 1'-0"



8 UNIT B1
ELECTRICAL
1/4" = 1'-0"

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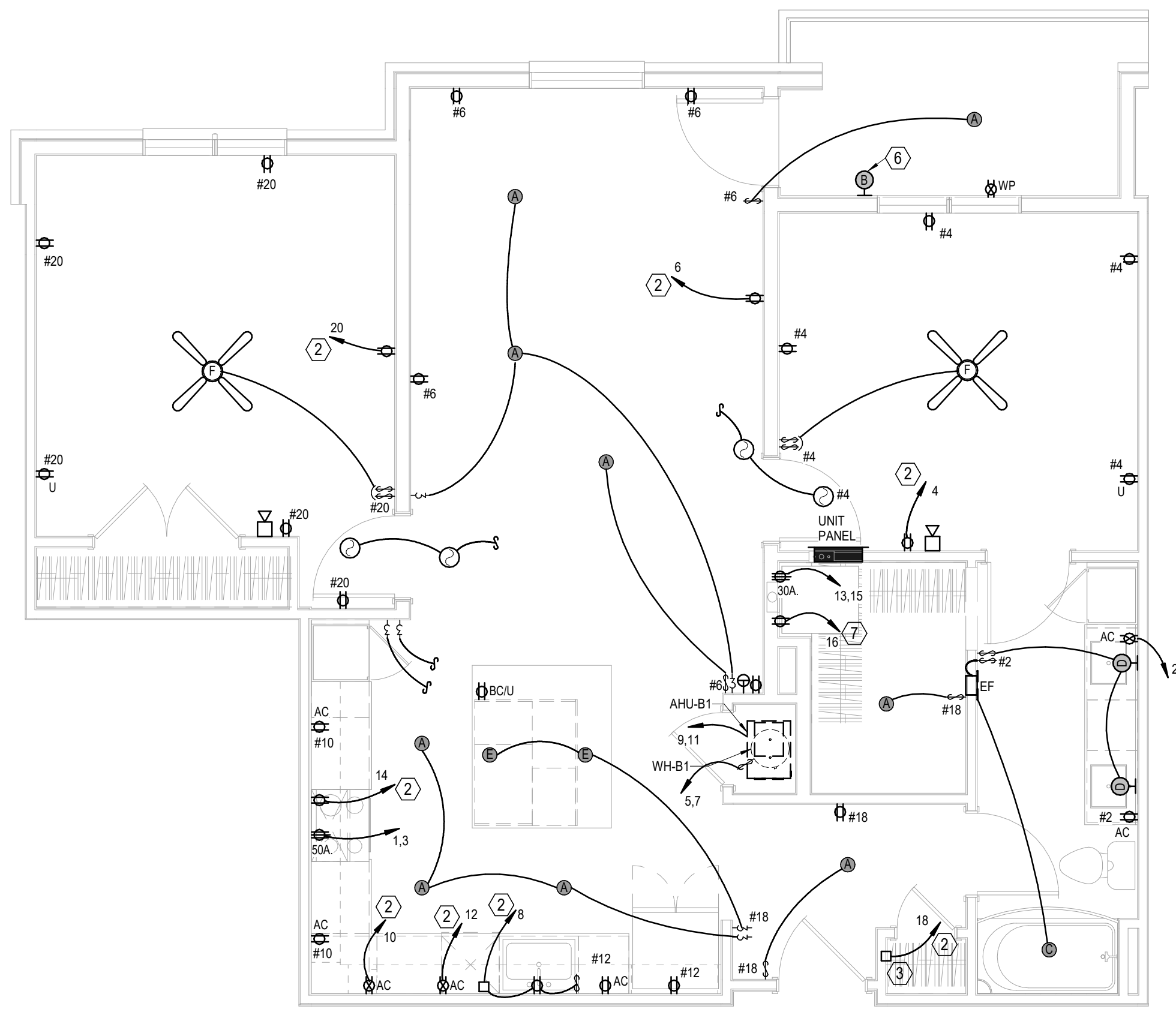
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4/11/2023
CITY COMMENTS
SHEET NAME
UNIT PLANS - ELECTRICAL

SHEET NO.

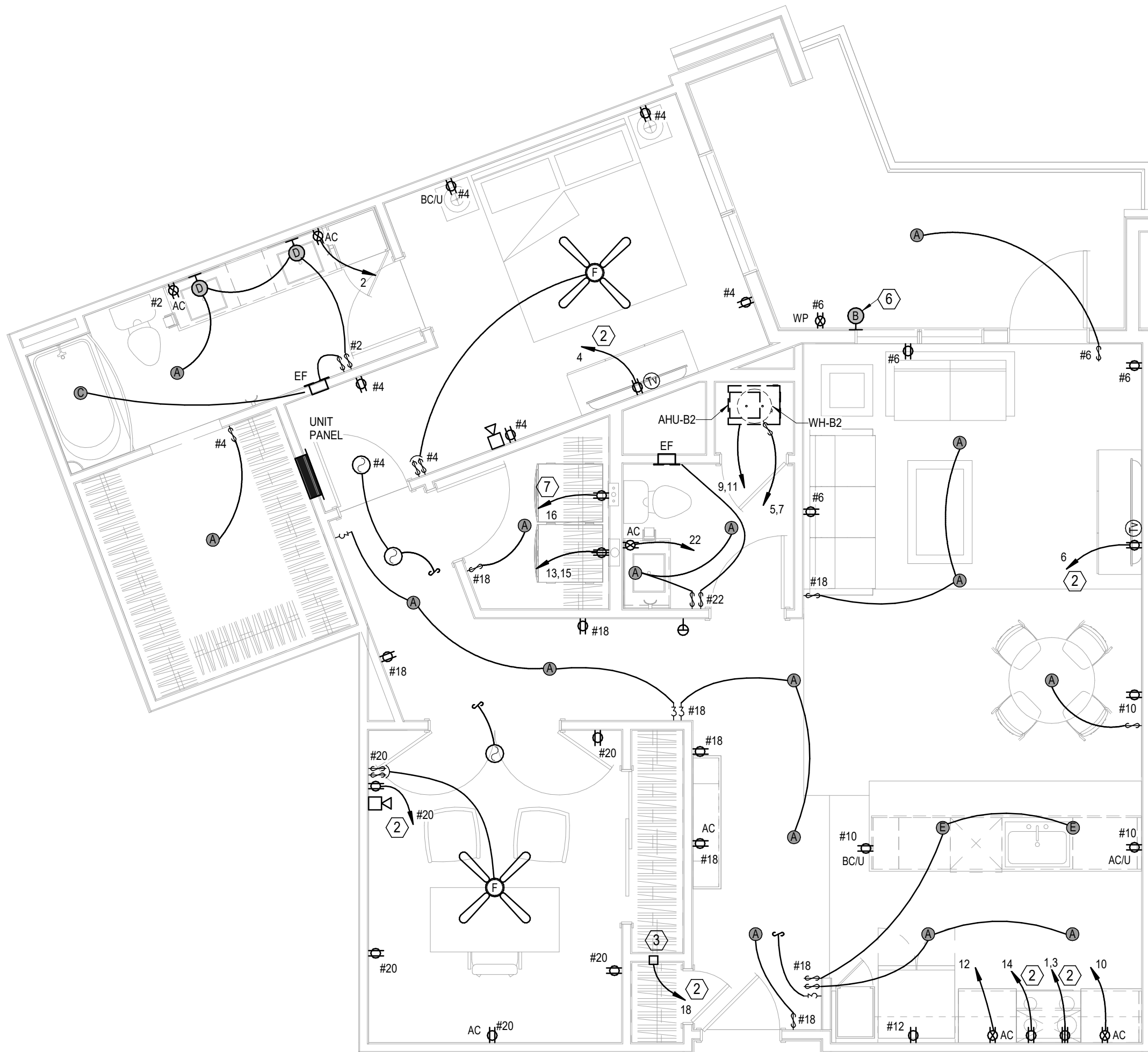
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LSA PROJECT NO. 2204061

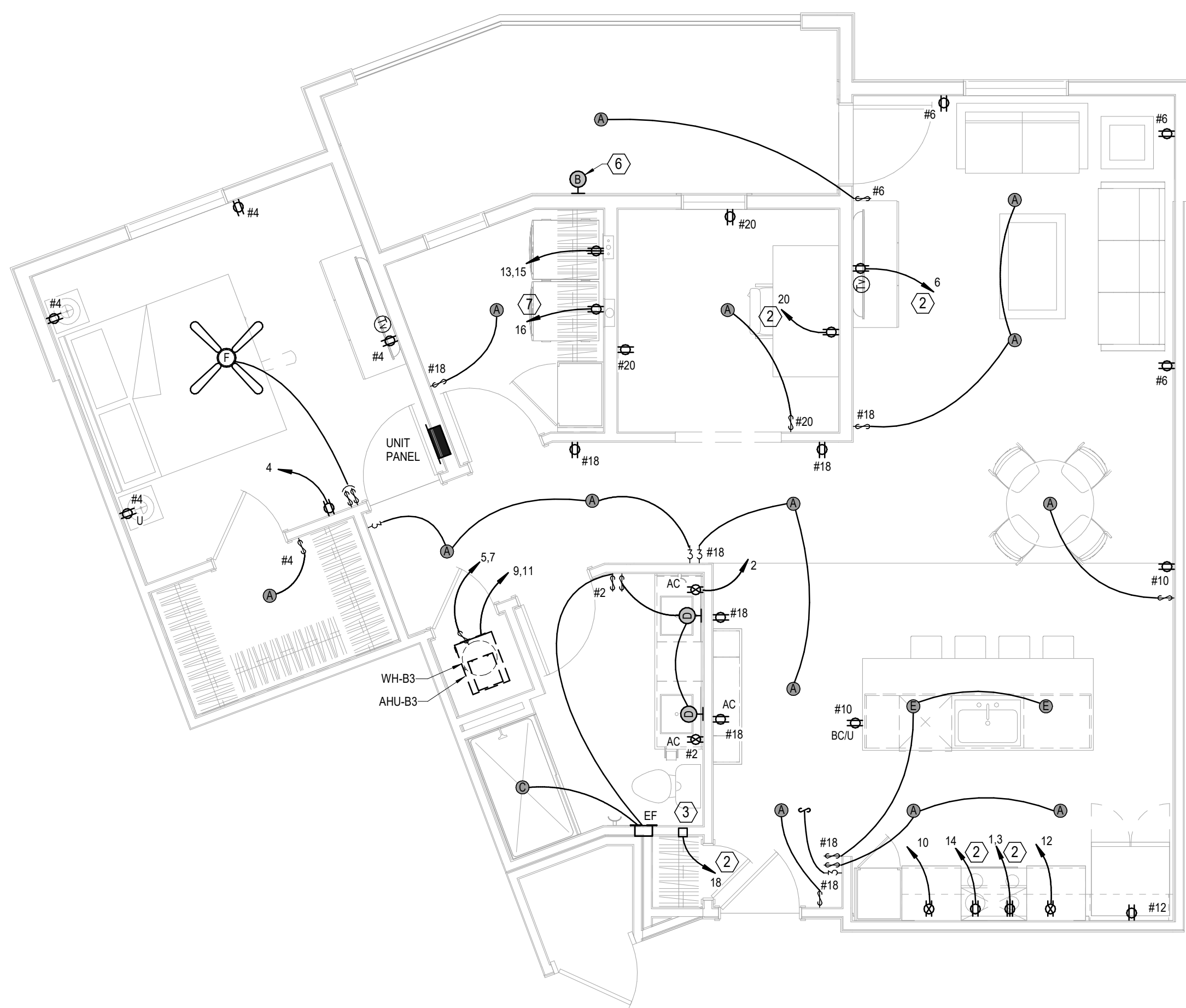
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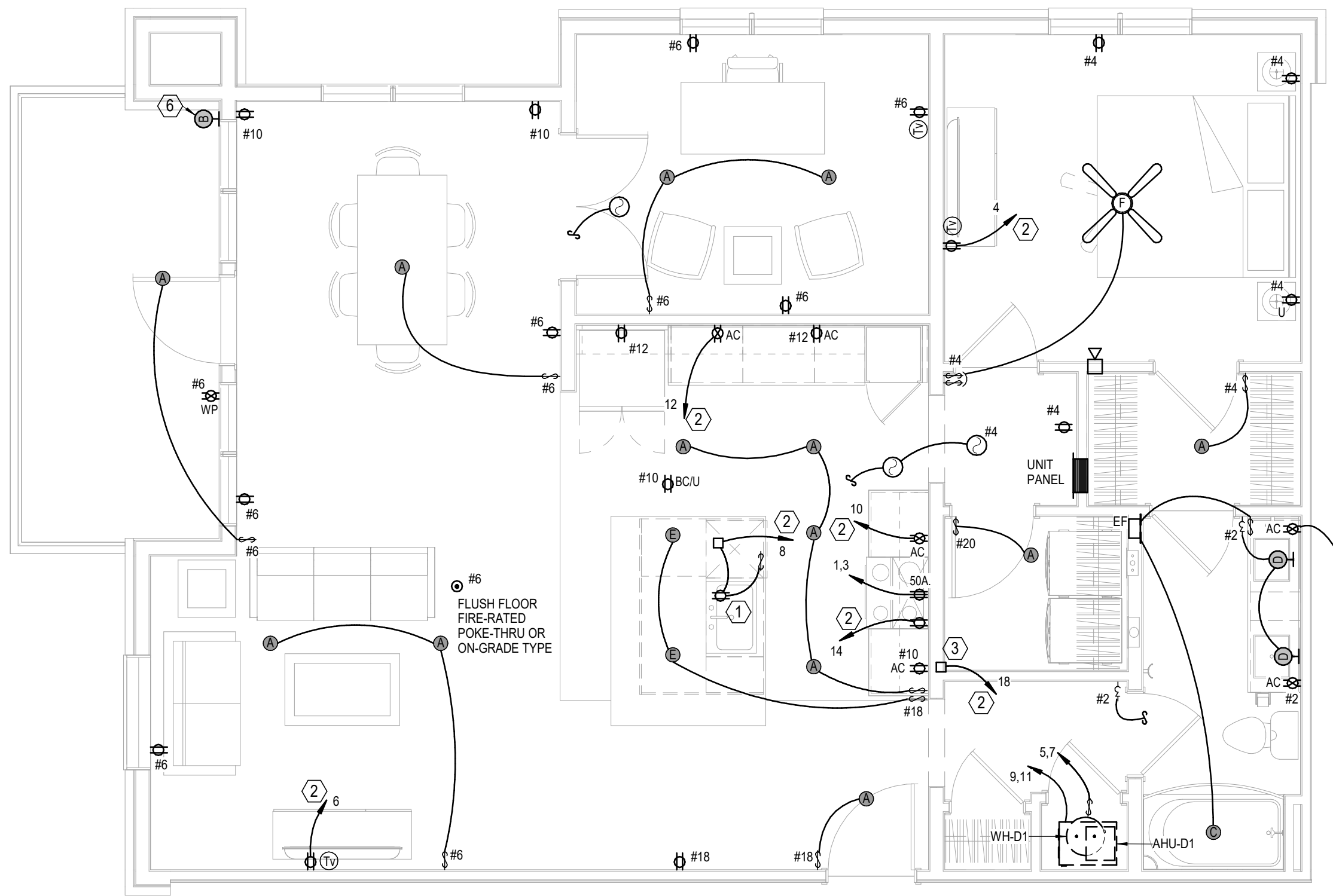
1 UNIT B1 ALT
ELECTRICAL
1/4" = 1'-0"



2 UNIT B2
ELECTRICAL
1/4" = 1'-0"



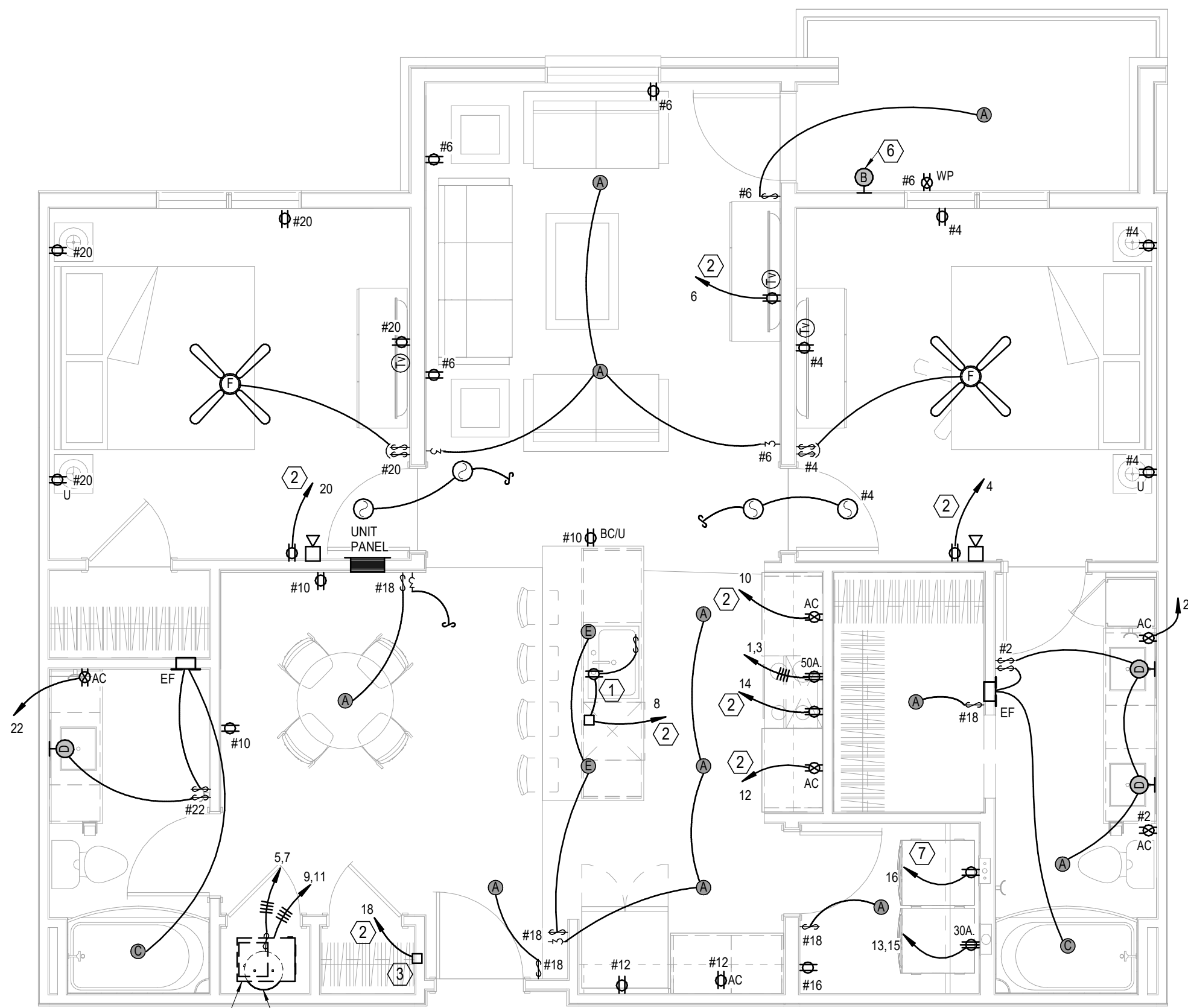
3 UNIT B3
ELECTRICAL
1/4" = 1'-0"



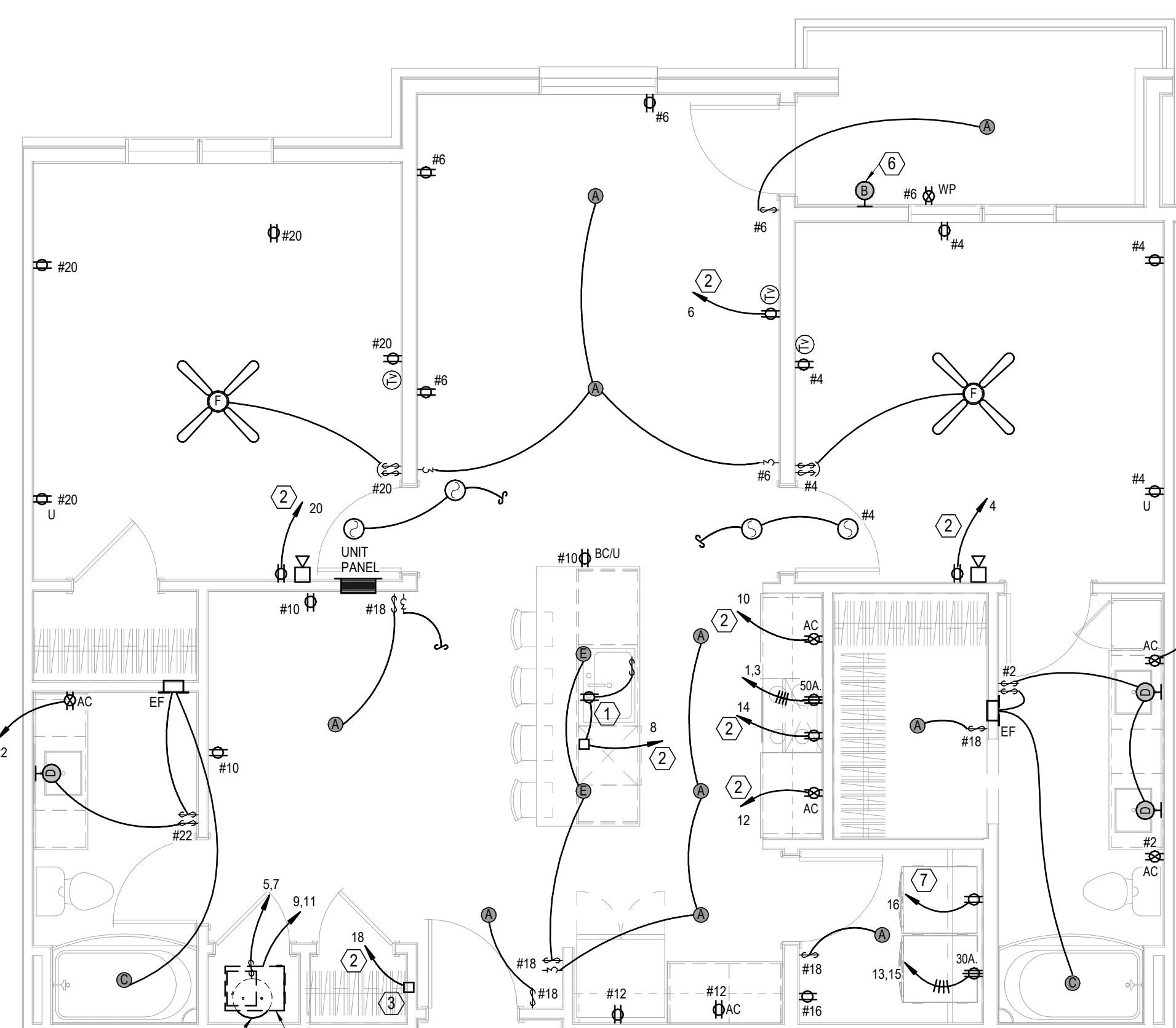
4 UNIT B4
ELECTRICAL
1/4" = 1'-0"

- UNIT ELECTRICAL NOTES:**
1. CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX.
 2. CENTER KITCHEN ISLAND PENDANT LIGHTS OVER BASE BACK WALL AND CENTERED EQUALLY LEFT TO RIGHT OVER SINK. THESE ARE SEPARATELY SWITCHED.
 3. GENERALLY CENTER LIGHT ON WINDOWS, DOOR, HALLWAYS, SINKS, OVER TUBS, ETC. VERIFY ALL LOCATIONS IN EACH UNIT DIMENSIONALLY WITH ARCHITECT, INTERIOR DESIGNER AND OWNER. MOUNT SWITCHES CLOSE TO DOORS OR WALL CORNERS.
 4. THERMOSTATS HAVE LOW VOLTAGE WIRE BACK TO AHU. CONDENSING UNITS HAVE LOW VOLTAGE WIRE BACK TO AHU.
 5. 20 = 120V. SMOKE ALARM WITH BATTERY BACK-UP AND AUXILIARY CONTACT SO ALL SOUND TOGETHER.
 7. CO ALARM JUST OUTSIDE BEDROOMS ONLY AND NOT TWO FLOORS ABOVE GARAGE LEVEL. BLDG 3 AND 4 HAVE NO CO ALARMS.
 8. ALL ARC-FAULT CIRCUIT BREAKERS SHALL BE COMPATIBLE WITH CEILING FANS, COMPACT AND STANDARD FLUORESCENT AND LED LAMPS/FIXTURES AND OTHER ELECTRONIC DEVICES.
 9. PROVIDE PROTECTION AT ELECTRICAL BOXES AT RATED CEILING MEMBRANES PER IBC 712.4.1.2(2). BOXES TO BE LISTED FOR RATED MEMBRANES. NOT EXCEED 16 SQUARE INCHES. NOT COMBINE FOR MORE THAN 100 SQUARE INCHES IN 100 SQUARE FEET AND ANNULAR SPACE NOT EXCEED 1/8".
 10. FIRE ALARM HORN/STROBE CIRCUITS SHALL BE SIZED TO ACCEPT BEDROOM HORN/STROBES IN FUTURE INCLUDING WIRING AND PANEL CAPACITY.
 11. ALL RANGES SERVED BY (3) #8 A (1) # 10 AND 50A RECEPTACLE.
 12. ALL WATER HEATERS SERVED BY (3) #10. ALL DRYERS SERVED BY (4) #10 AND 30A RECEPTACLE.
 13. ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48".
 14. MOUNT TV OUTLET AND ADJACENT PLUG AT 48" IN LIVING ROOMS AND BEDROOMS.
 15. SEE HVAC SCHEDULE AND SHOP DRAWINGS FOR AHU AND HEAT PUMP CIRCUITS.
 16. MOUNT TOP BREAKER IN UNIT PANELS AT 48" AFF.
 17. BELOW COUNTER RECEPTACLES AND PLATES SHALL MATCH THE BASE CABINET'S WHERE THEY ARE MOUNTED (BROWN, WHITE, ETC.) VERIFY WITH ARCHITECT.
 18. PROVIDE ALTERNATE FOR ARC-FAULT CIRCUITS AS SHOWN. BASE BID TO HAVE ARC-FAULT ON BEDROOM AND LIVING ROOM CKTS ONLY.

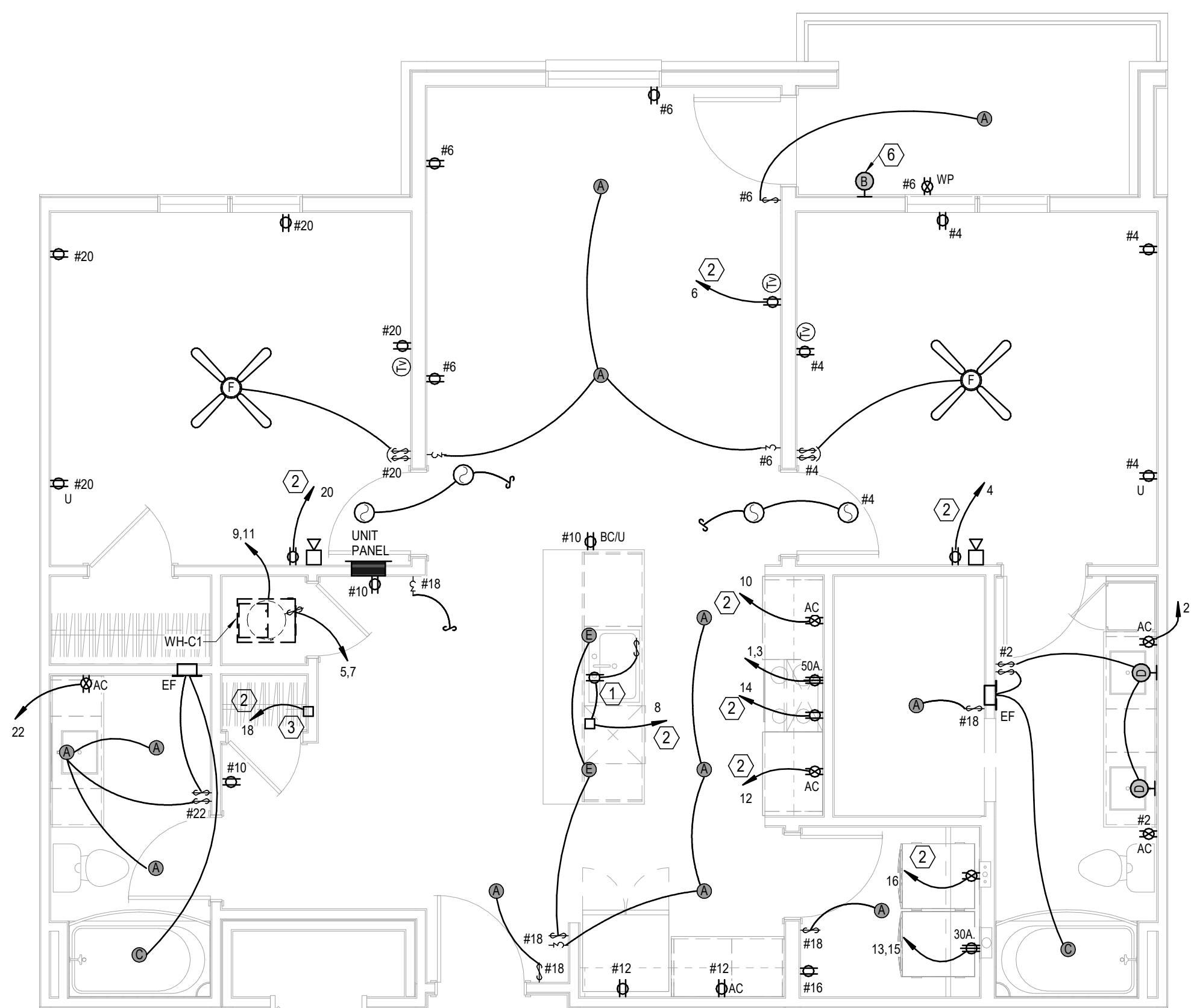
- LEGEND:**
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 - ② PROVIDE ARC-FAULT BREAKER IN PANEL.
 - ③ TELE/TV DEMARK FLUSH BOX WITH DUPLEX OUTLET. SEE DETAIL.
 - ④ SWITCHES FOR OVERHEAD MW FAN & LIGHT.
 - ⑤ SMOKE ALARM TO HAVE STROBES.
 - ⑥ TOP FLOOR UNITS TO RECEIVE WALL Scone TYPE "B".
 - ⑦ TO COMBINATION GFI AND ARC FAULT BREAKER.



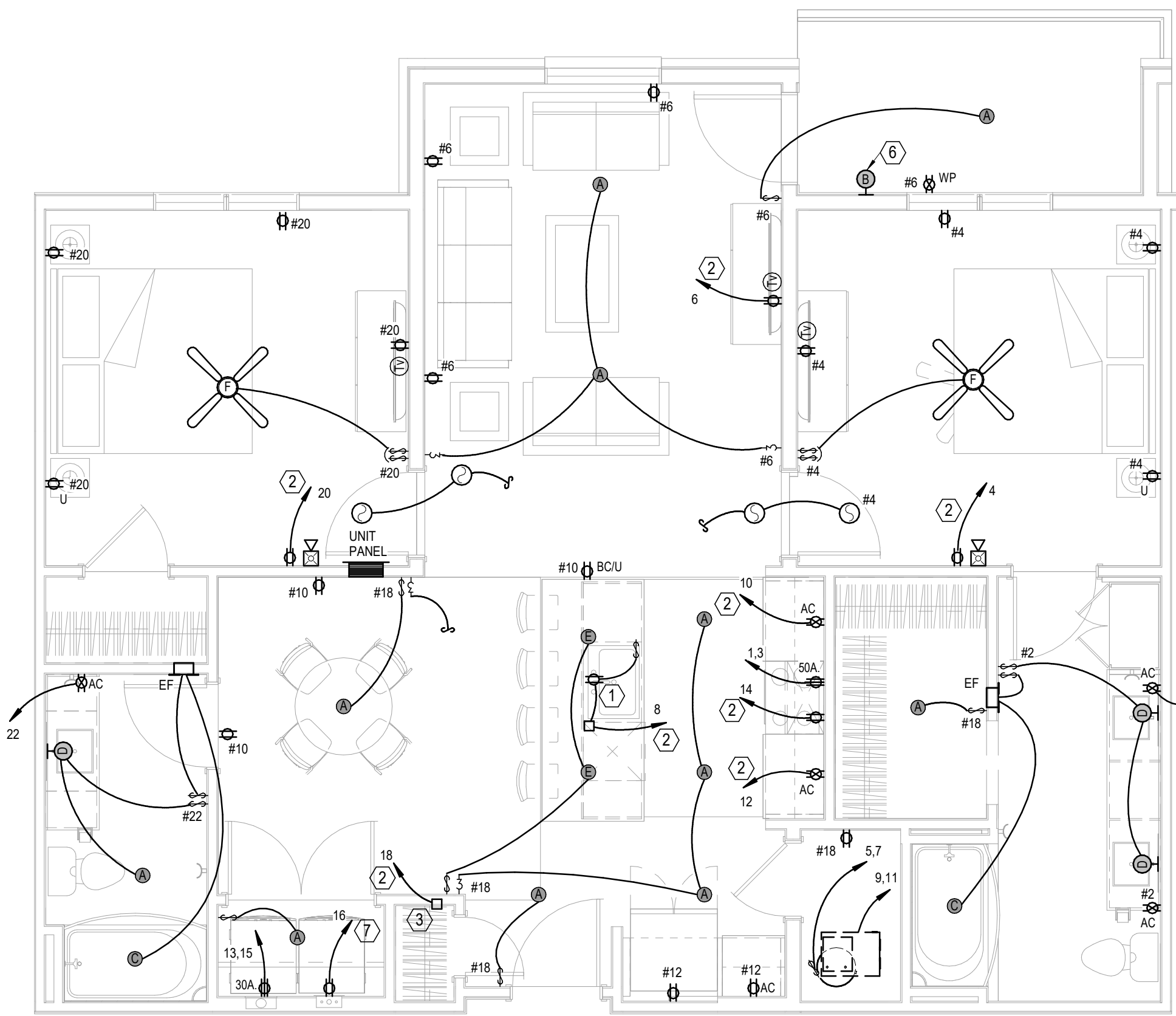
1 **UNIT C1**
ELECTRICAL
1/4" = 1'-0"



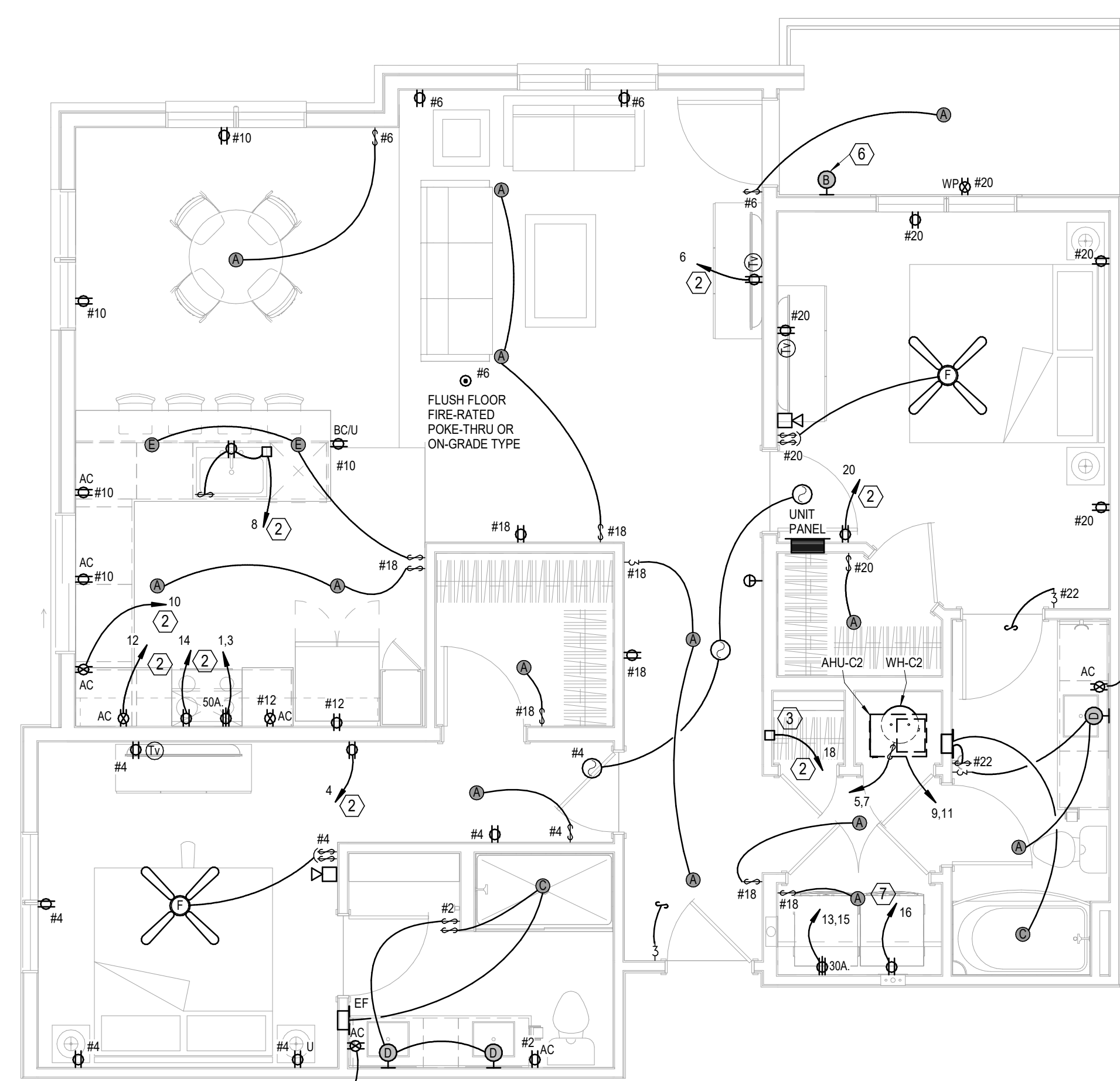
2 **UNIT C1 ALT**
ELECTRICAL
1/4" = 1'-0"



3 **UNIT C1 ALT 2**
ELECTRICAL
1/4" = 1'-0"



4 **UNIT C1 TYPE A**
ELECTRICAL
1/4" = 1'-0"



5 **UNIT C2**
ELECTRICAL
1/4" = 1'-0"

- UNIT ELECTRICAL NOTES:**
1. CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX.
 2. CENTER KITCHEN ISLAND PENDANT LIGHTS OVER BASE BACK WALL AND CENTERED EQUALLY LEFT TO RIGHT OVER SINK. THESE ARE SEPARATELY SWITCHED.
 3. GENERALLY CENTER LIGHT ON WINDOWS, DOOR, HALLWAYS, SINKS, OVER TUBS, ETC. VERIFY ALL LOCATIONS IN EACH UNIT DIMENSIONALLY WITH ARCHITECT, INTERIOR DESIGNER AND OWNER. MOUNT SWITCHES CLOSE TO DOORS OR WALL CORNERS.
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 13. ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48".
 14. MOUNT TV OUTLET AND ADJACENT PLUG AT 48" IN LIVING ROOMS AND BEDROOMS.
 15. SEE HVAC SCHEDULE AND SHOP DRAWINGS FOR AHU AND HEAT PUMP CIRCUITS.
 16. MOUNT TOP BREAKER IN UNIT PANELS AT 48" AFF.
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- LEGEND:**
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 - ② PROVIDE ARC-FAULT BREAKER IN PANEL.
 - ③ TELE/TV DEMARK FLUSH BOX WITH DUPLEX OUTLET. SEE DETAIL.
 - ④ SWITCHES FOR OVERHEAD MW FAN & LIGHT.
 - ⑤ SMOKE ALARM TO HAVE STROBES.
 - ⑥ TOP FLOOR UNITS TO RECEIVE WALL SCENE TYPE "B".
 - ⑦ TO COMBINATION GFI AND ARC FAULT BREAKER.

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REVISIONS

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CITY COMMENTS
SHEET NAME
UNIT PLANS - ELECTRICAL

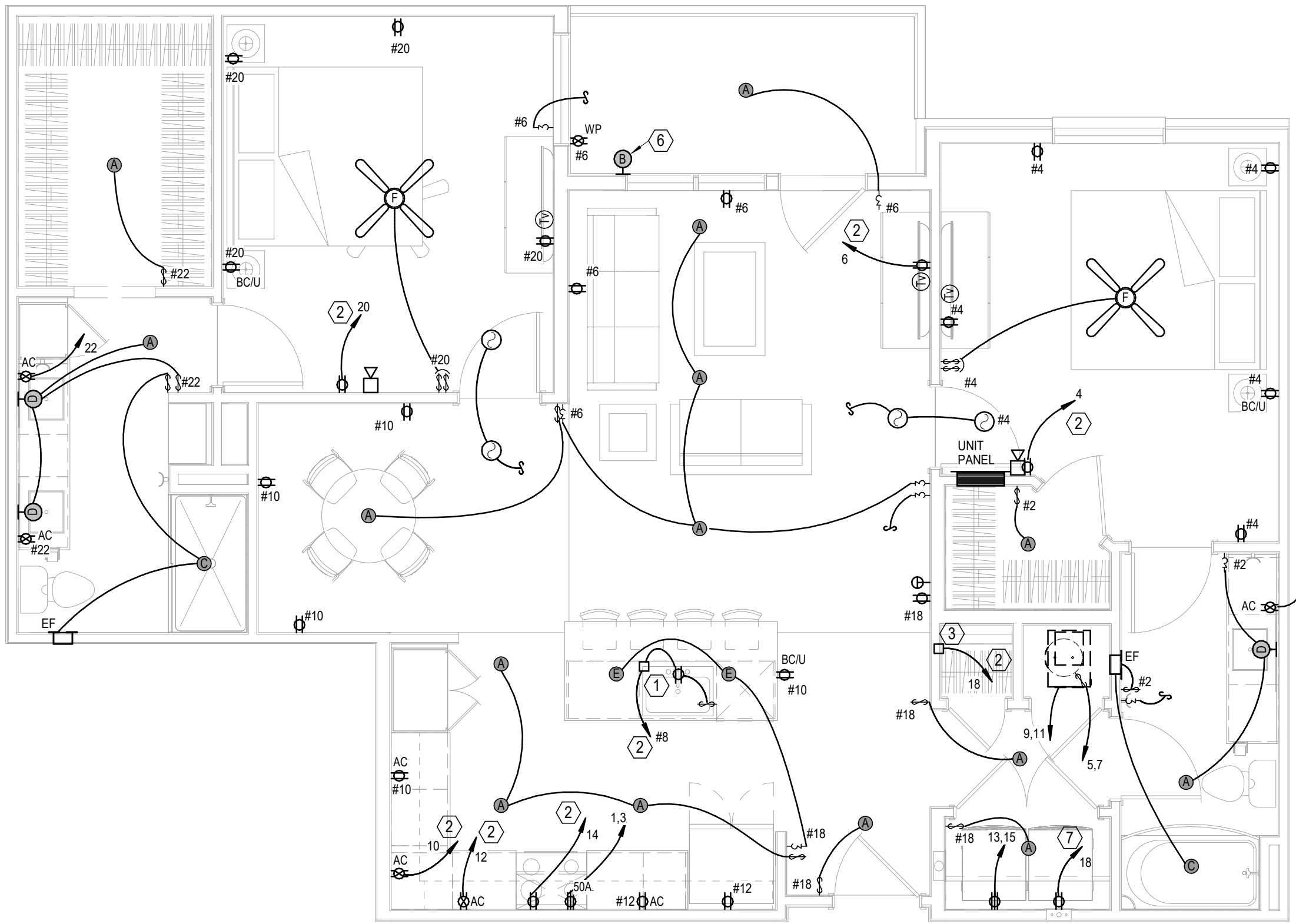
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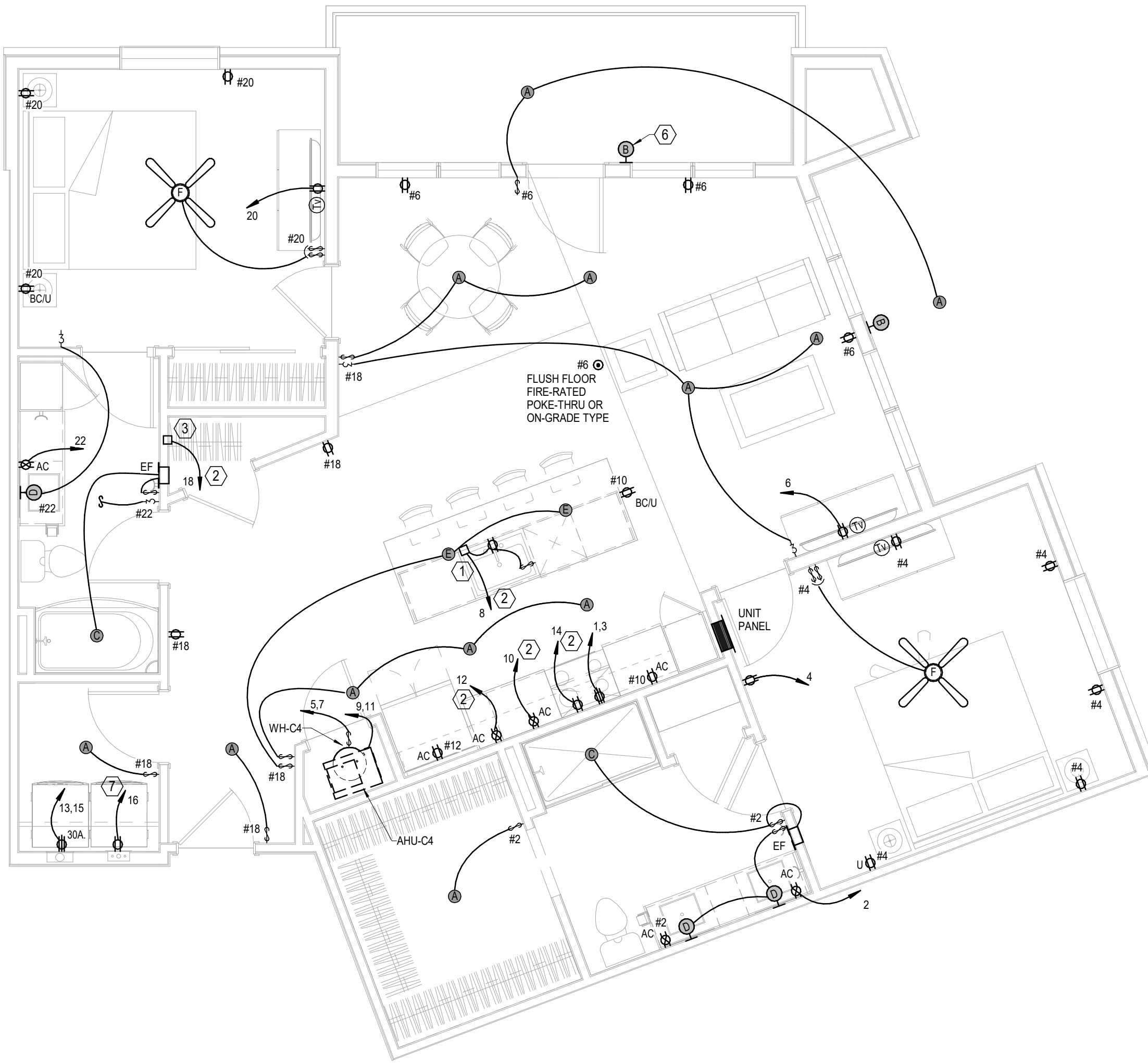
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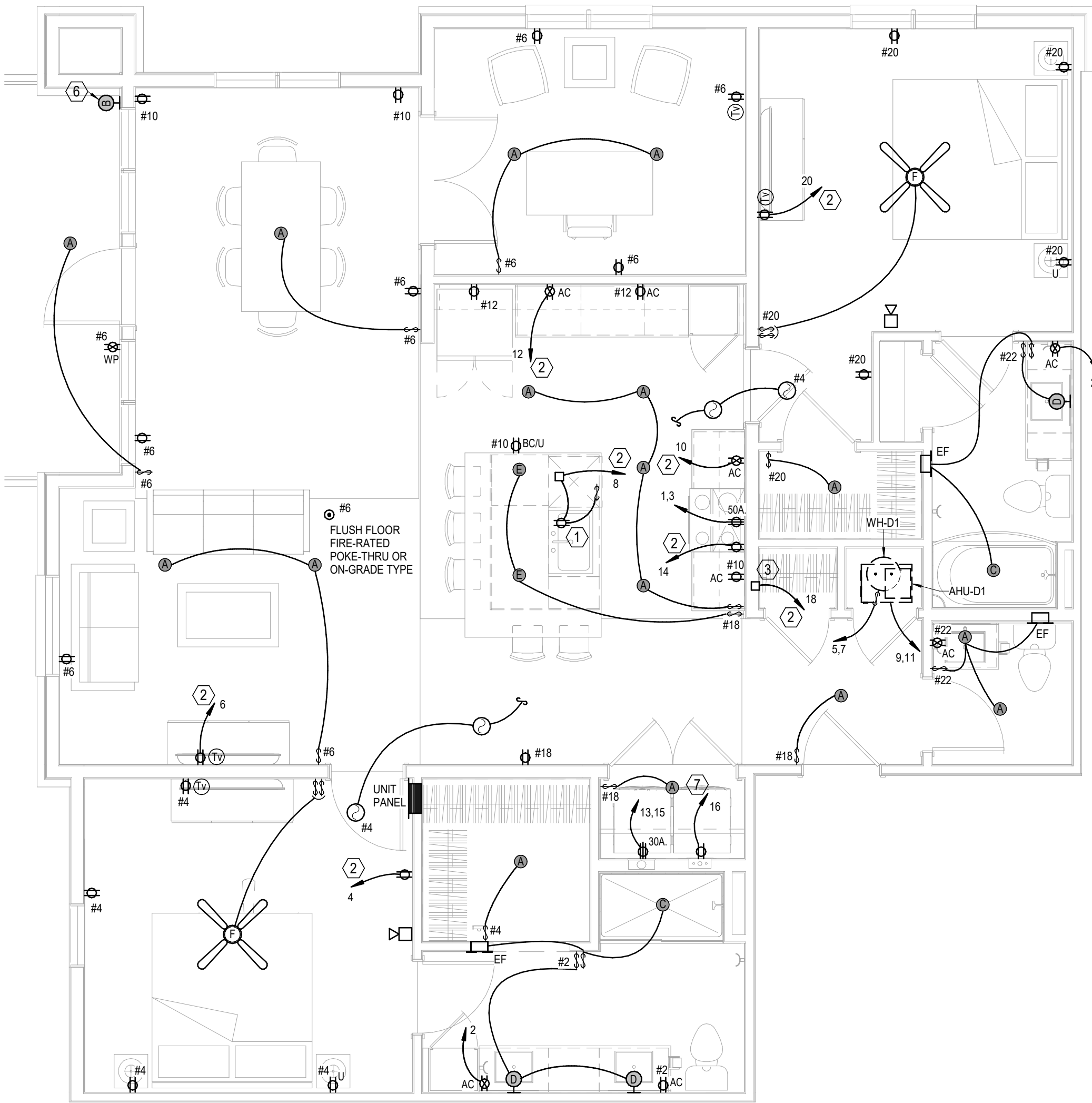
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6025 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3332
Email: lsan@lsapa.com
LSA PROJECT NO. 2204061



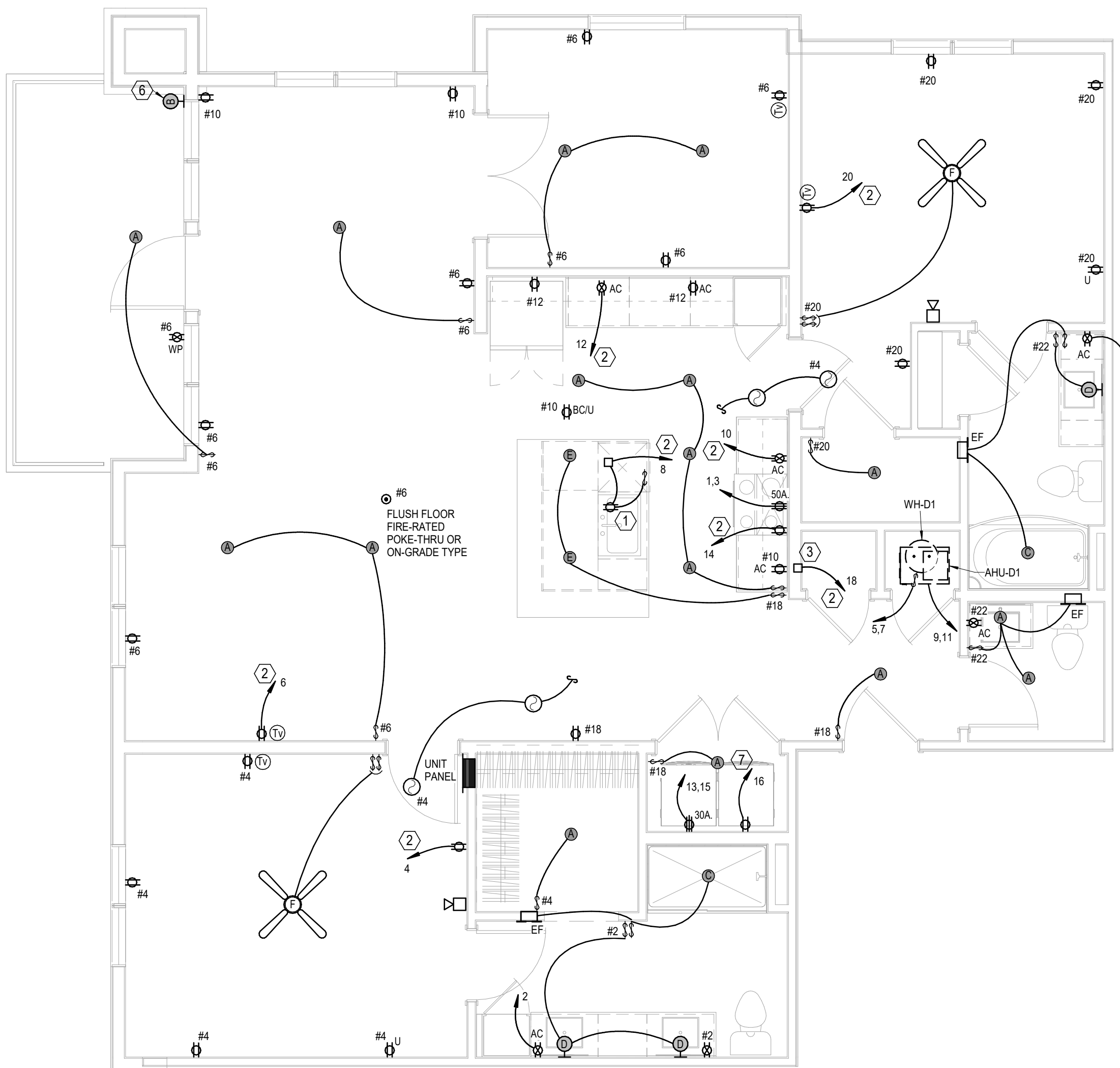
1 UNIT C3
ELECTRICAL
1/4" = 1'-0"



2 UNIT C4
ELECTRICAL
1/4" = 1'-0"



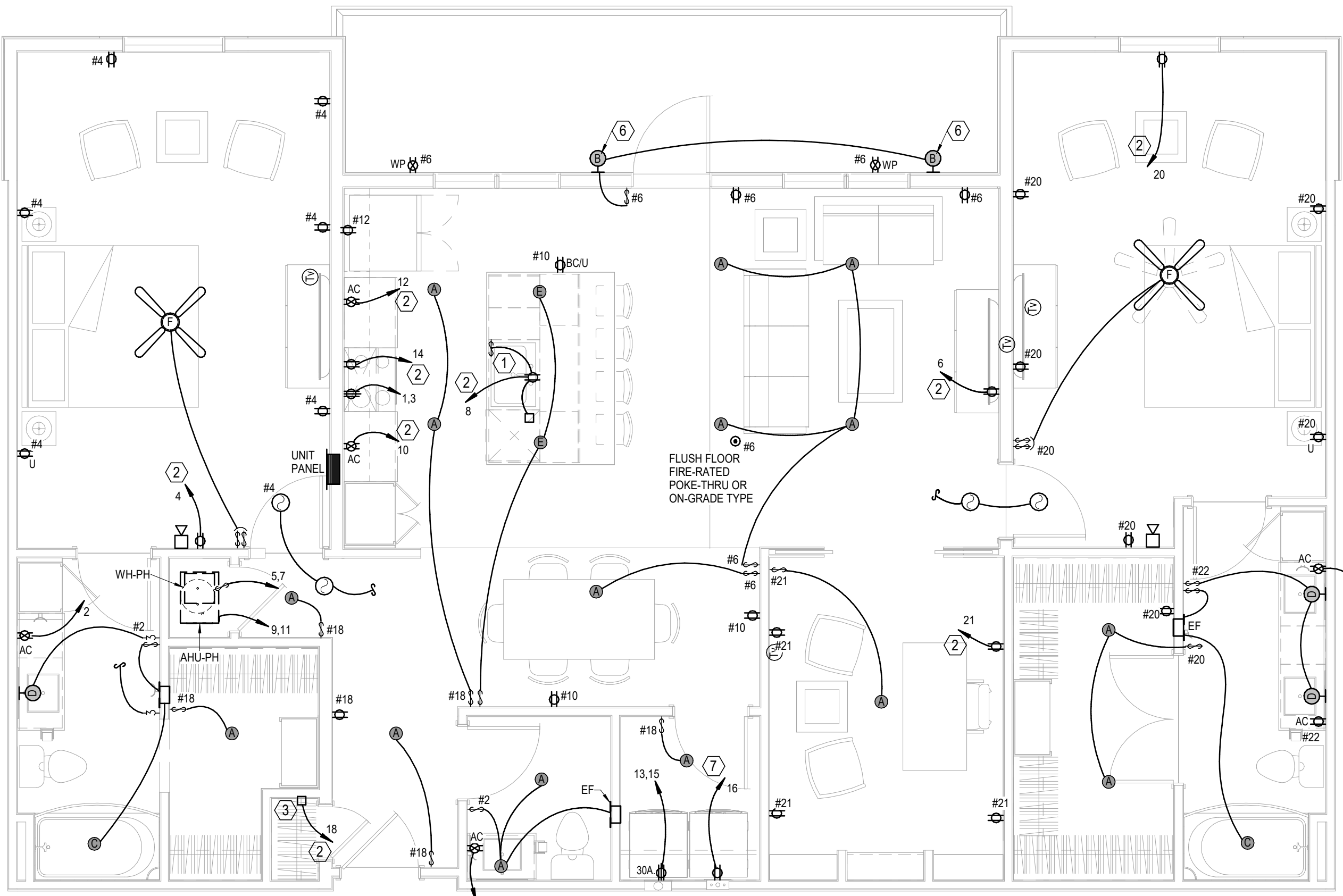
3 UNIT D1
ELECTRICAL
1/4" = 1'-0"



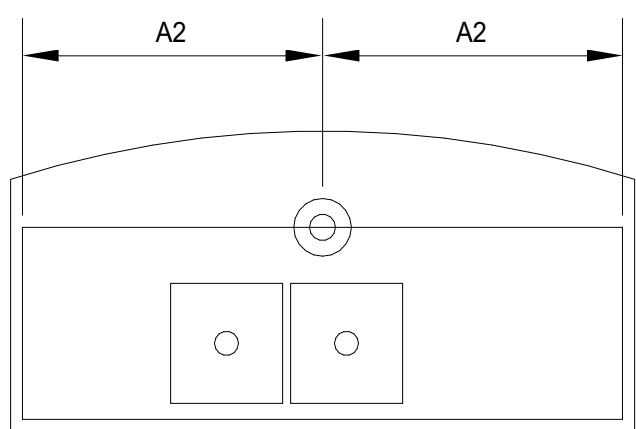
4 UNIT D1 ALT 2
ELECTRICAL
1/4" = 1'-0"

- UNIT ELECTRICAL NOTES:**
1. CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX.
 2. CENTER KITCHEN ISLAND PENDANT LIGHTS OVER BASE BACK WALL AND CENTERED EQUALLY LEFT TO RIGHT OVER SINK. THESE ARE SEPARATELY SWITCHED.
 3. GENERALLY CENTER LIGHT ON WINDOWS, DOOR, HALLWAYS, SINKS, OVER TUBS, ETC. VERIFY ALL LOCATIONS IN EACH UNIT DIMENSIONALLY WITH ARCHITECT, INTERIOR DESIGNER AND OWNER. MOUNT SWITCHES CLOSE TO DOORS OR WALL CORNERS.
 4. THERMOSTATS HAVE LOW VOLTAGE WIRE BACK TO AHU. CONDENSING UNITS HAVE LOW VOLTAGE WIRE BACK TO AHU.
 5. 120V. SMOKE ALARM WITH BATTERY BACK-UP AND AUXILIARY CONTACT SO ALL SOUND TOGETHER.
 6. CO ALARM JUST OUTSIDE BEDROOMS ONLY AND NOT TWO FLOORS ABOVE GARAGE LEVEL. BLDG 3 AND 4 HAVE NO CO ALARMS.
 8. ALL ARC—FAULT CIRCUIT BREAKERS SHALL BE COMPATIBLE WITH CEILING FANS, COMPACT AND STANDARD FLUORESCENT AND LED LAMPS/FIXTURES AND OTHER ELECTRONIC DEVICES.
 9. PROVIDE PROTECTION AT ELECTRICAL BOXES AT RATED CEILING MEMBRANES PER IBC 712.4.1.2(2). BOXES TO BE LISTED FOR RATED MEMBRANES. NOT EXCEED 16 SQUARE INCHES IN 100 SQUARE FEET AND ANNULAR SPACE NOT EXCEED 1/8".
 10. FIRE ALARM HORN/STROBE CIRCUITS SHALL BE SIZED TO ACCEPT BEDROOM HORN/STROBES IN FUTURE INCLUDING WIRING AND PANEL CAPACITY.
 11. ALL RANGES SERVED BY (3) #8 A (1) # 10 AND 50A RECEPTACLE.
 12. ALL WATER HEATERS SERVED BY (3) #10. ALL DRYERS SERVED BY (4) #10 AND 30A RECEPTACLE.
 13. ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48".
 14. MOUNT TV OUTLET AND ADJACENT PLUG AT 48" IN LIVING ROOMS AND BEDROOMS.
 15. SEE HVAC SCHEDULE AND SHOP DRAWINGS FOR AHU AND HEAT PUMP CIRCUITS.
 16. MOUNT TOP BREAKER IN UNIT PANELS AT 48" AFF.
 17. BELOW COUNTER RECEPTACLES AND PLATES SHALL MATCH THE BASE CABINET'S WHERE THEY ARE MOUNTED (BROWN, WHITE, ETC.) VERIFY WITH ARCHITECT.
 18. PROVIDE ALTERNATE FOR ARC-FAULT CIRCUITS AS SHOWN. BASE BID TO HAVE ARC-FAULT ON BEDROOM AND LIVING ROOM CKTS ONLY.

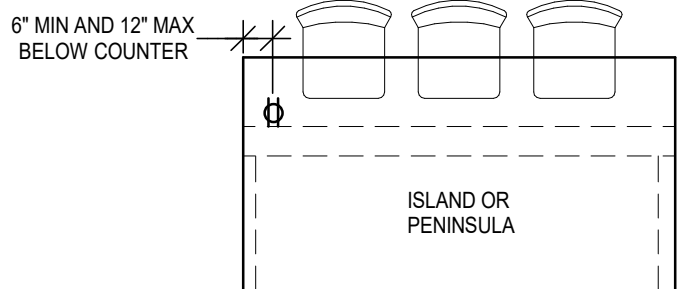
- LEGEND:**
- (1) SWITCHED RECEPTACLE FOR GARBAGE DISPOSER. CONTINUE CIRCUIT TO DISHWASHER. TO GFI BREAKER.
 - (2) PROVIDE ARC-FAULT BREAKER IN PANEL.
 - (3) TELE/TV DEMARK FLUSH BOX WITH DUPLEX OUTLET. SEE DETAIL.
 - (4) SWITCHES FOR OVERHEAD MW FAN & LIGHT.
 - (5) SMOKE ALARM TO HAVE STROBES.
 - (6) TOP FLOOR UNITS TO RECEIVE WALL Scone TYPE "B".
 - (7) TO COMBINATION GFI AND ARC FAULT BREAKER.



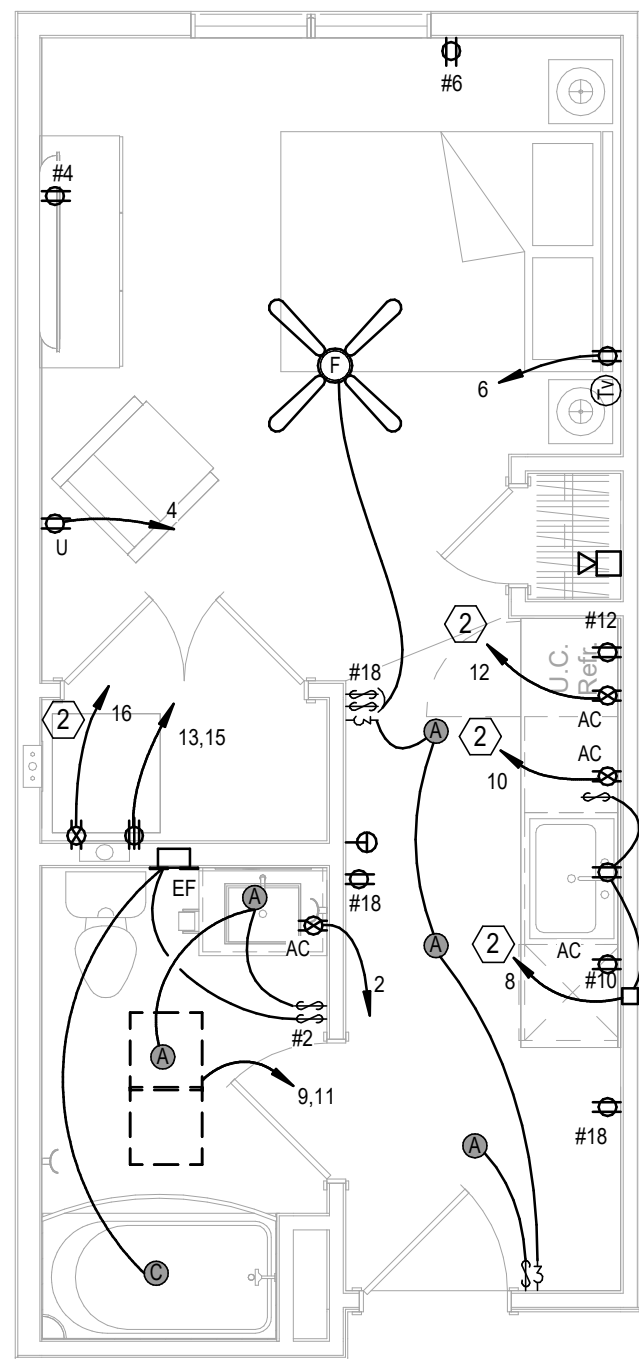
1 **PENTHOUSE**
ELECTRICAL
1/4" = 1'-0"



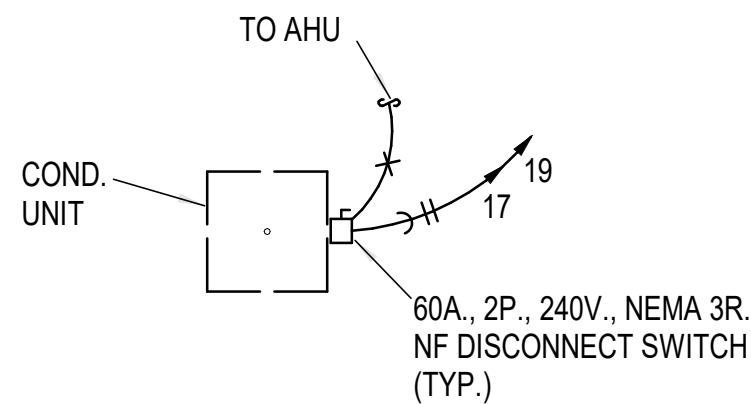
3 **KITCHEN ISLAND LIGHTING DETAIL**
NOT TO SCALE



4 **ISLAND RECEPTALCE DETAIL**
NOT TO SCALE



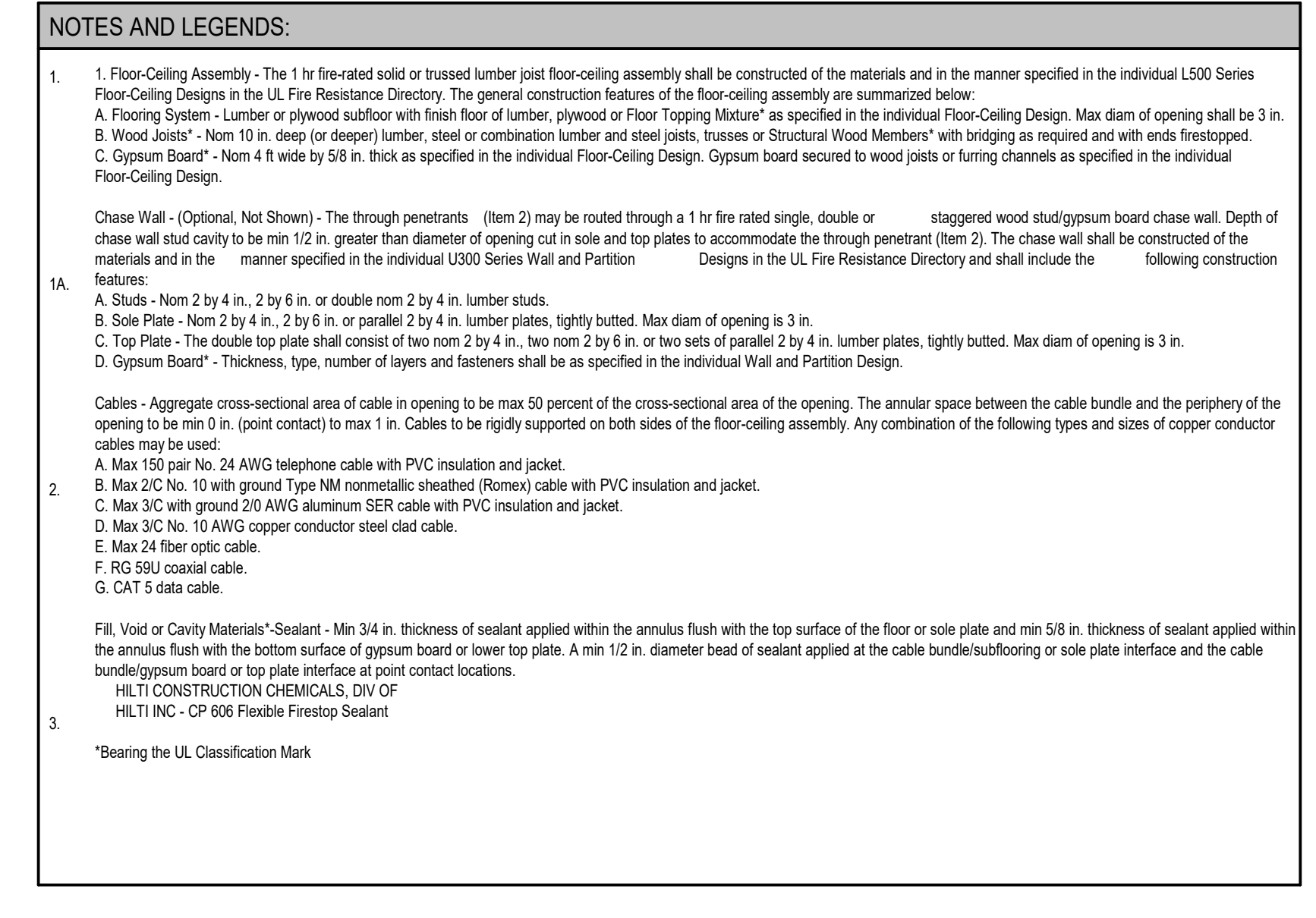
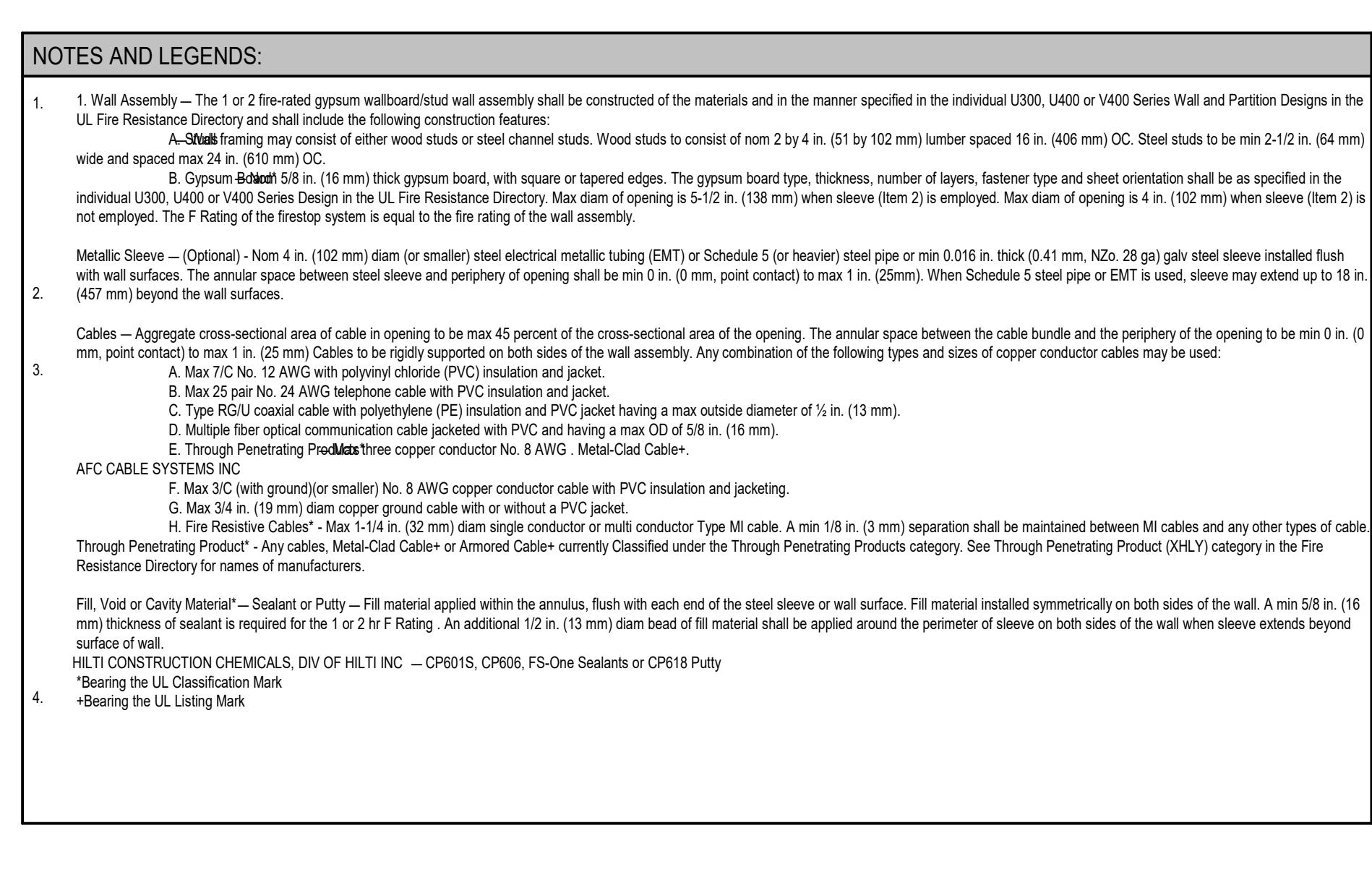
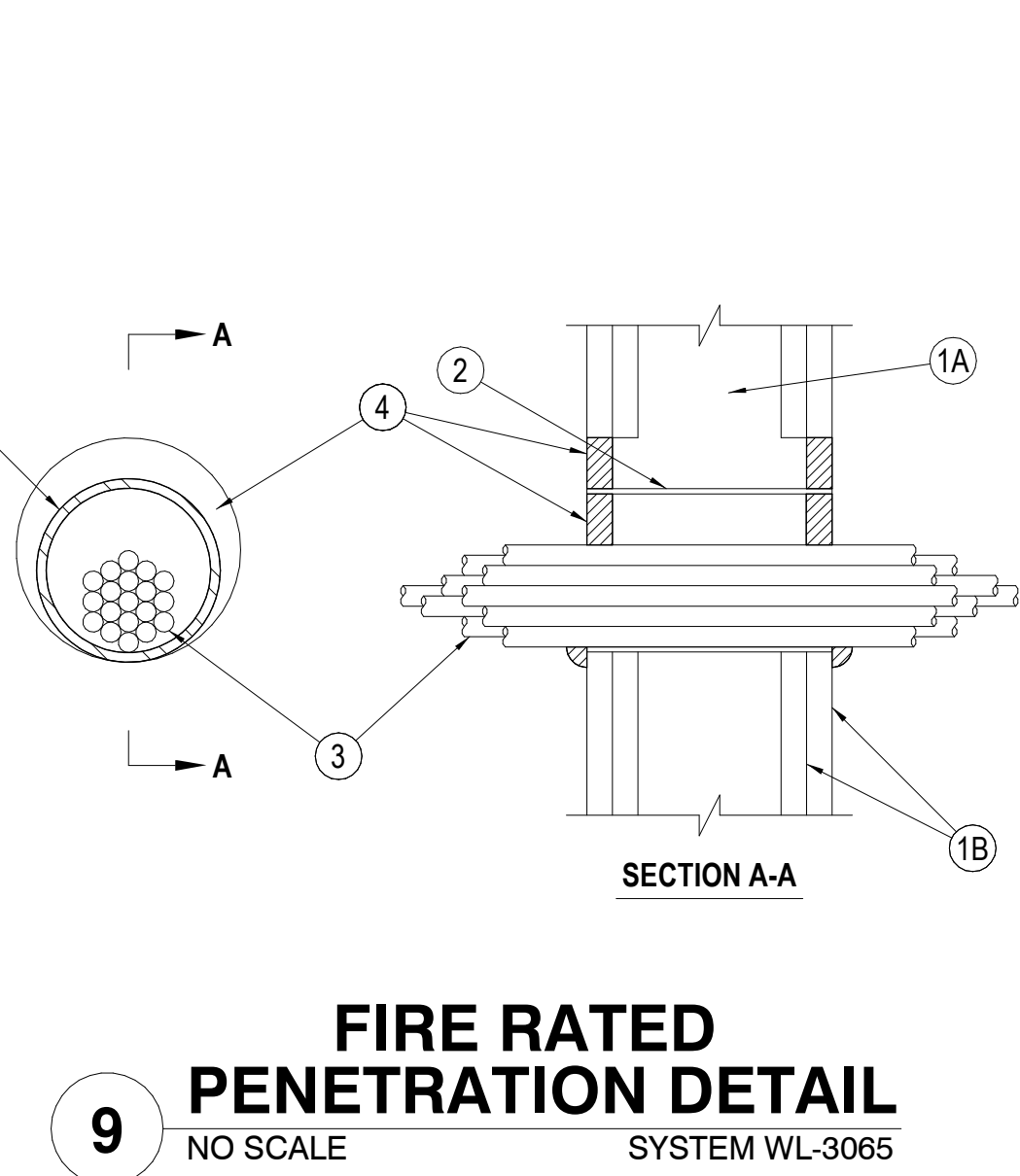
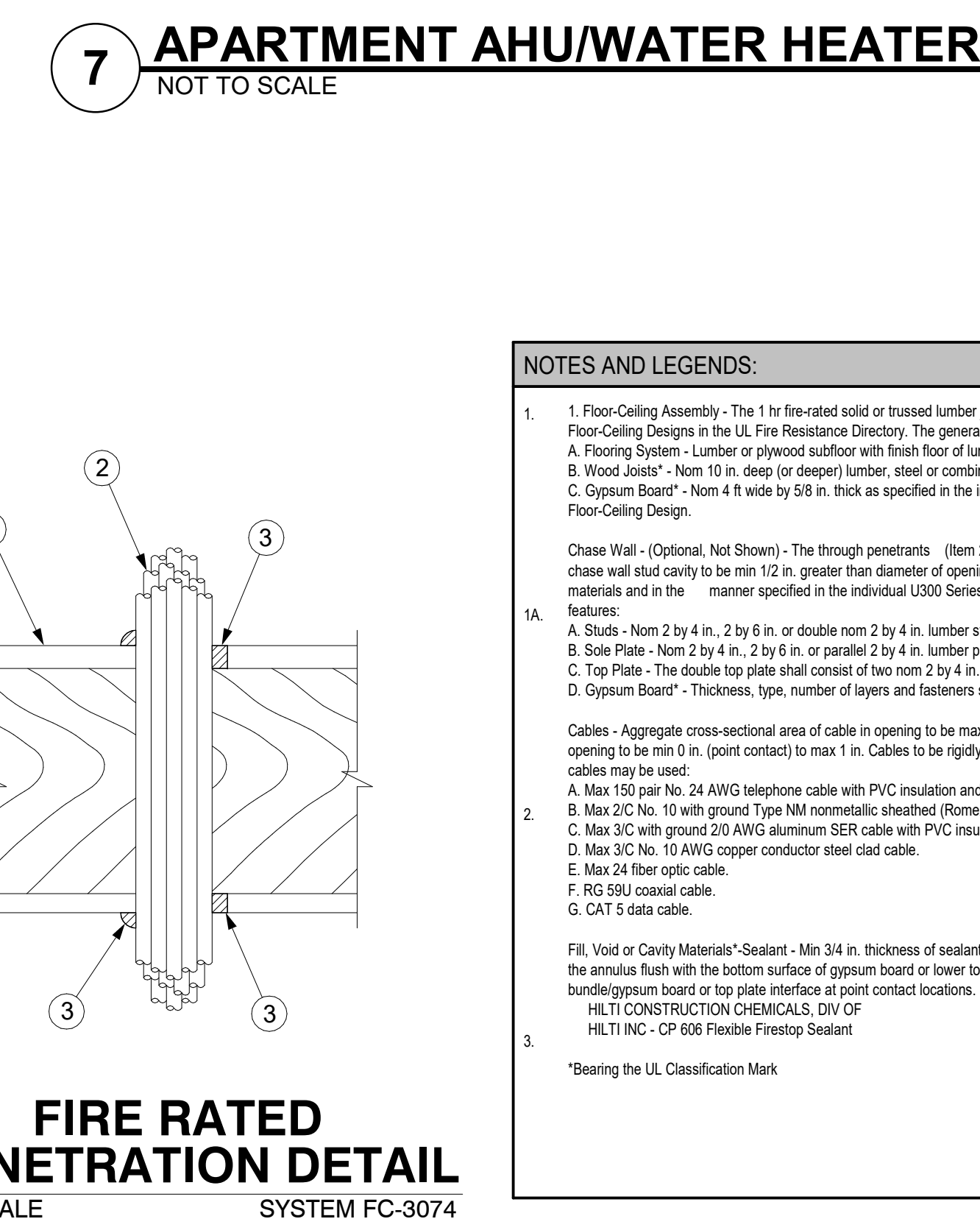
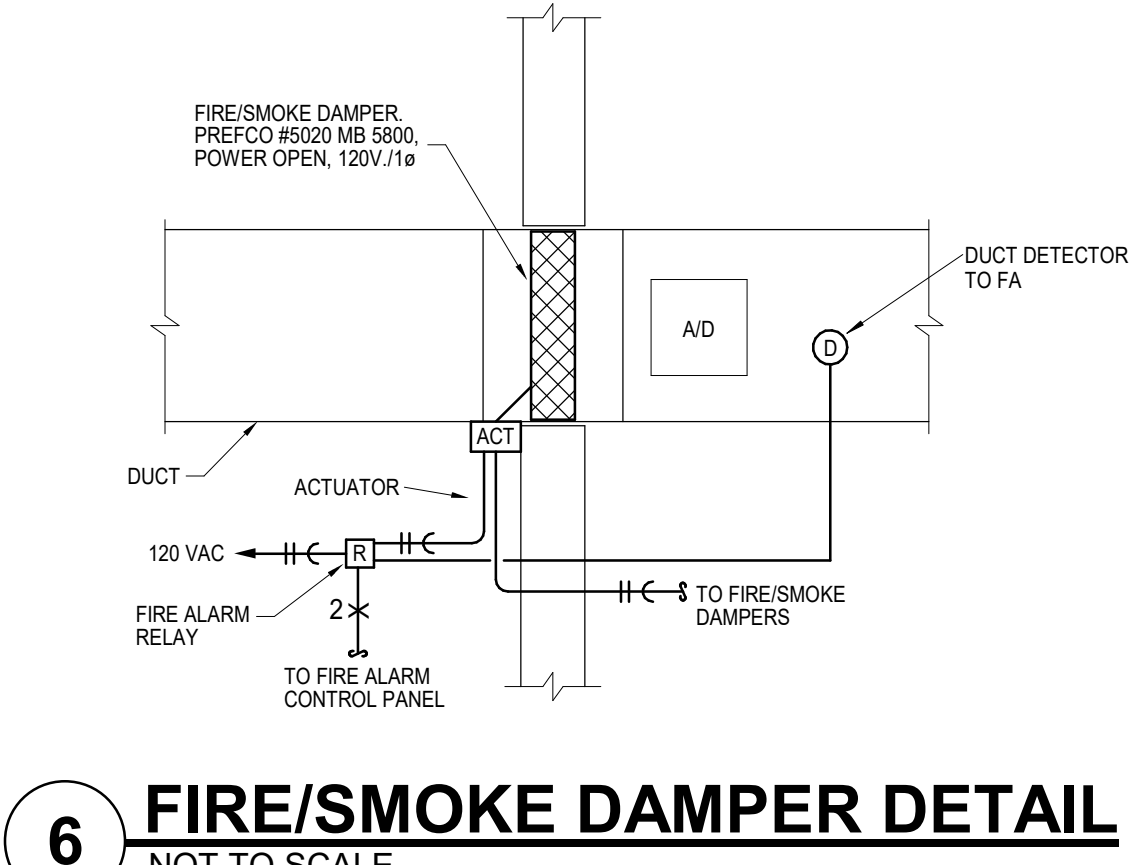
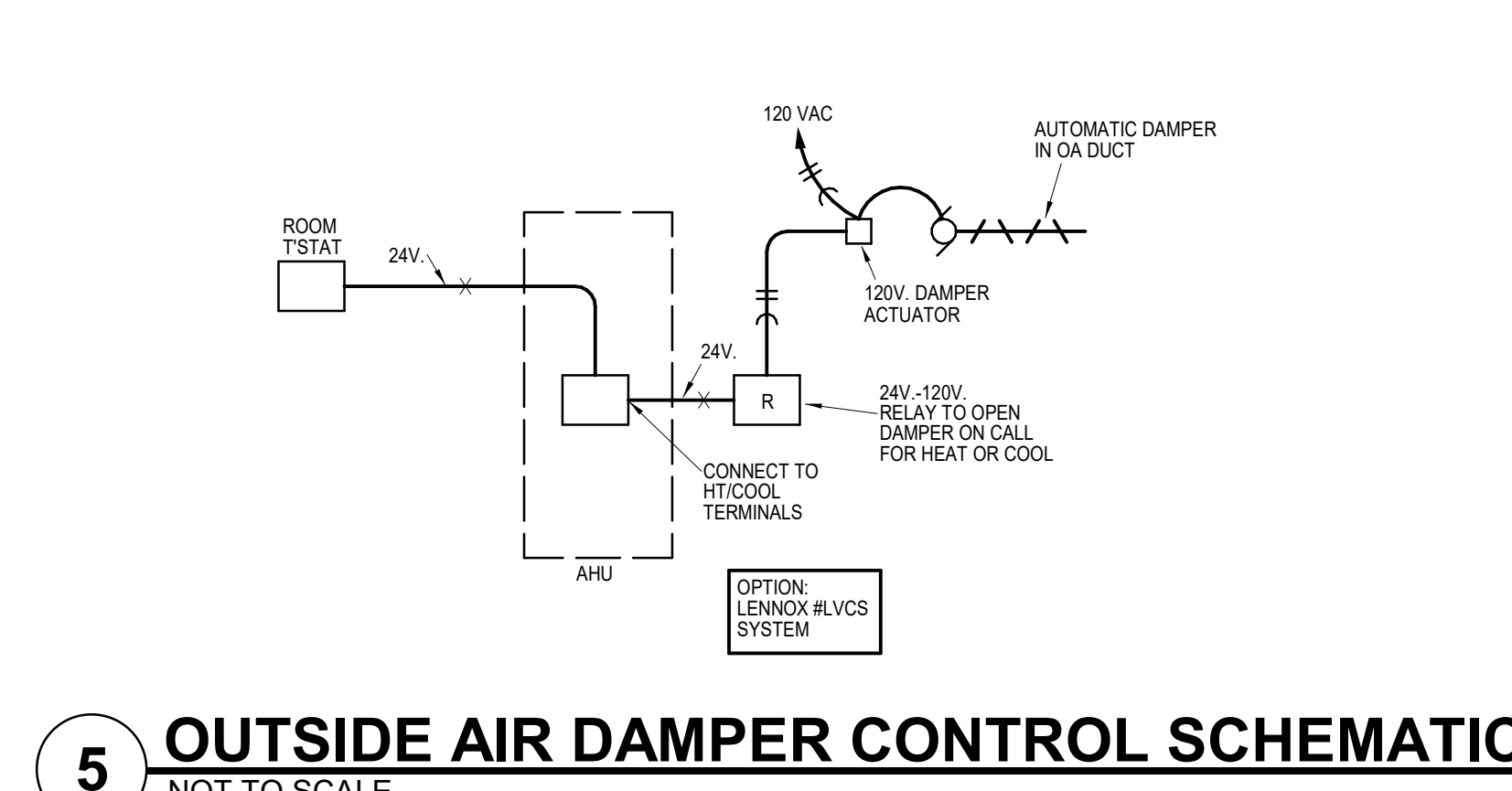
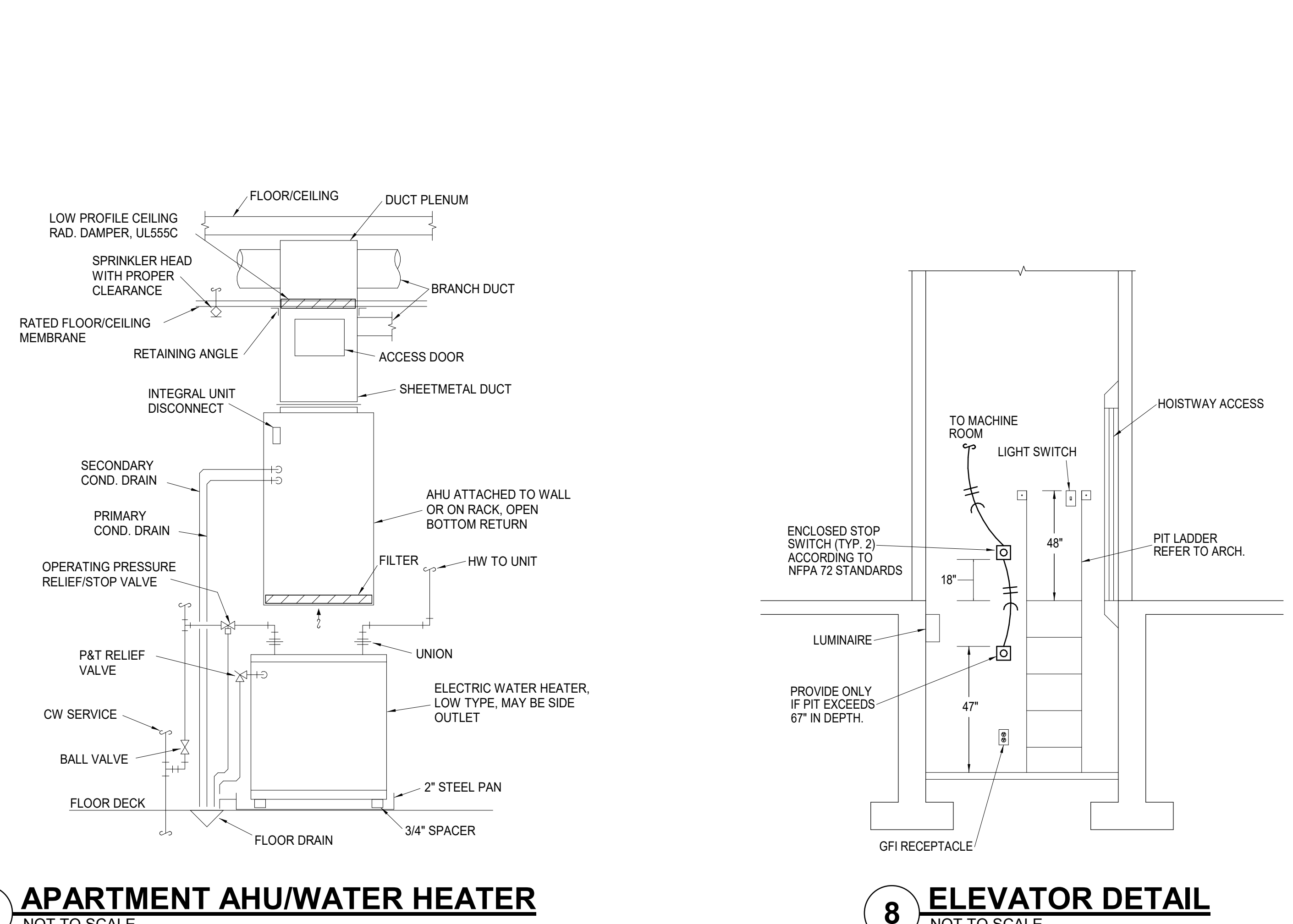
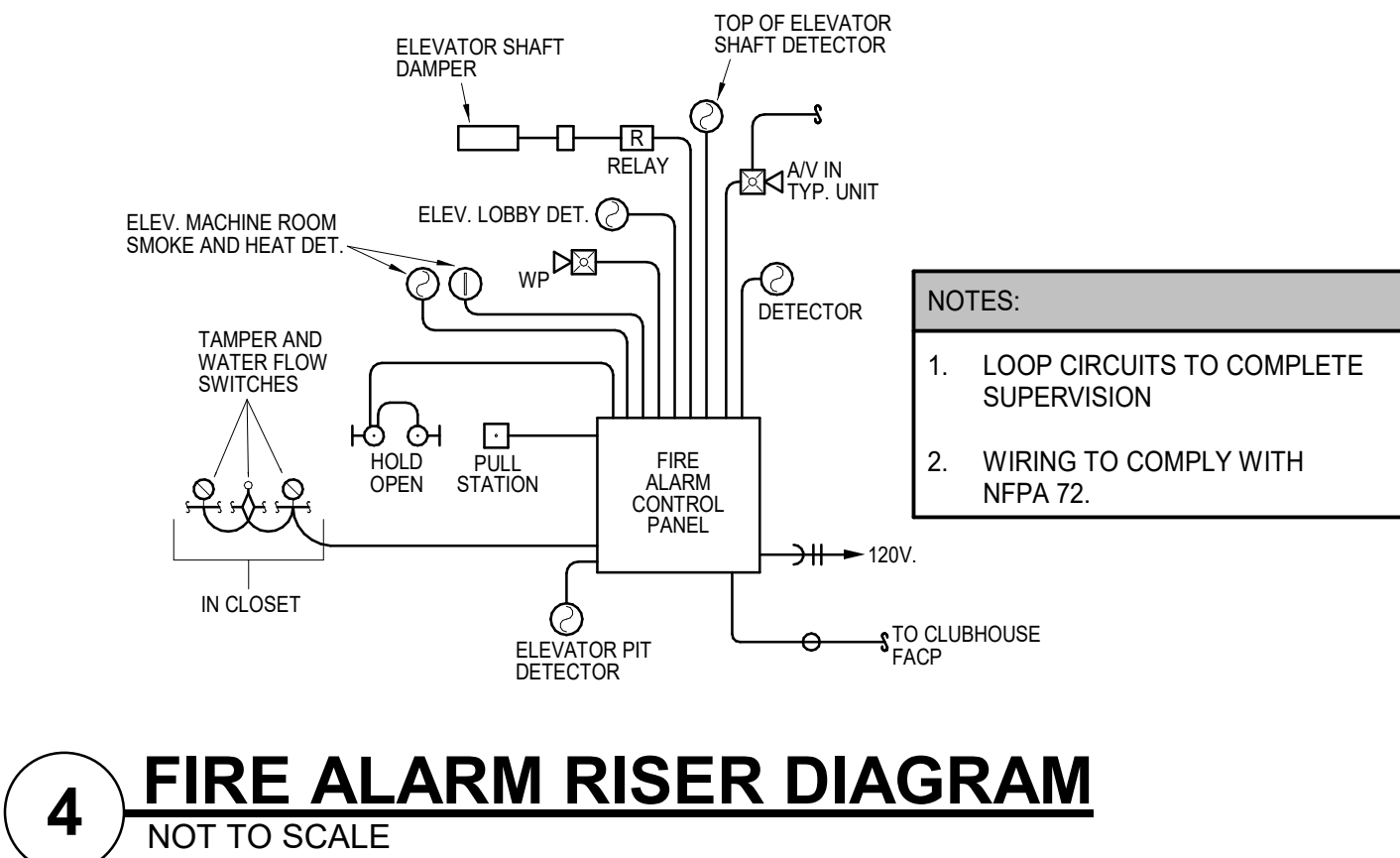
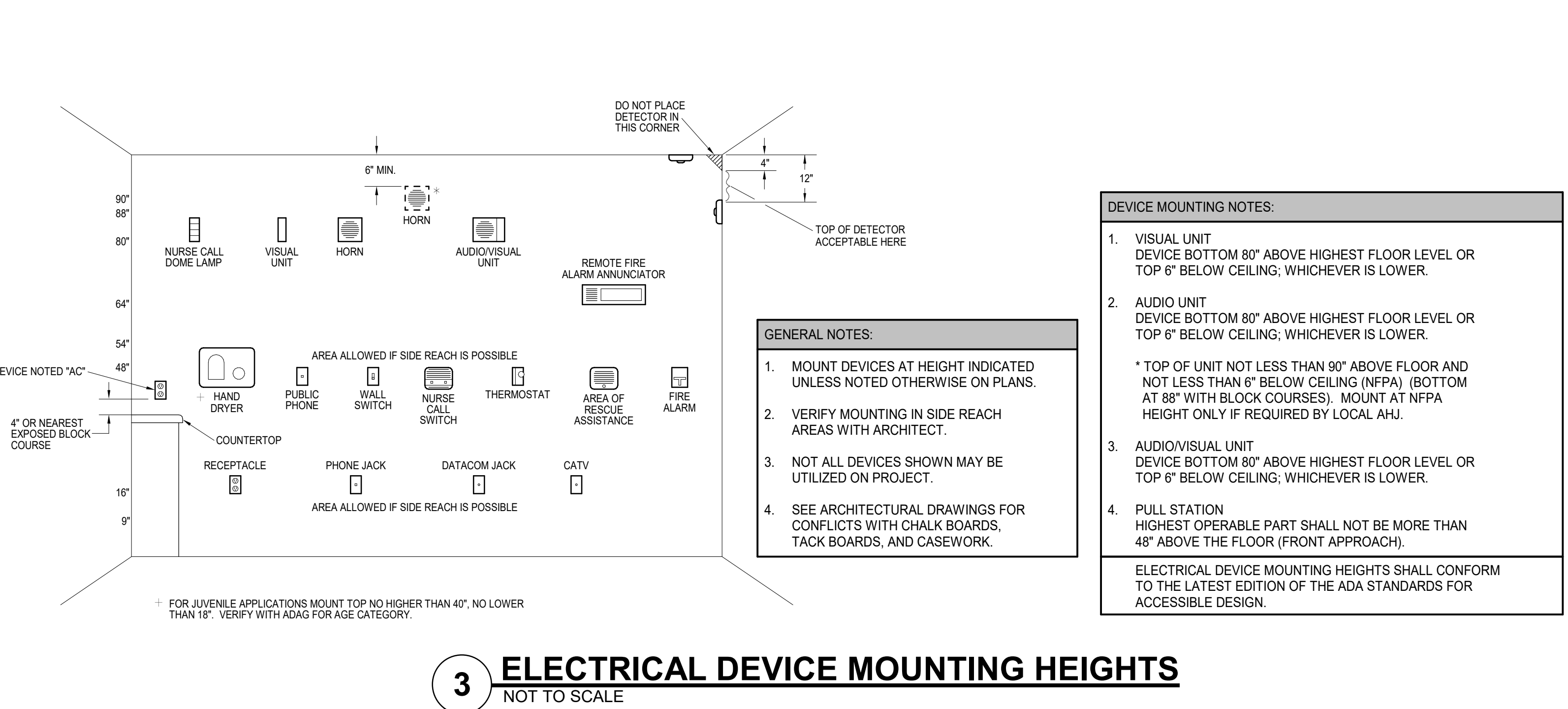
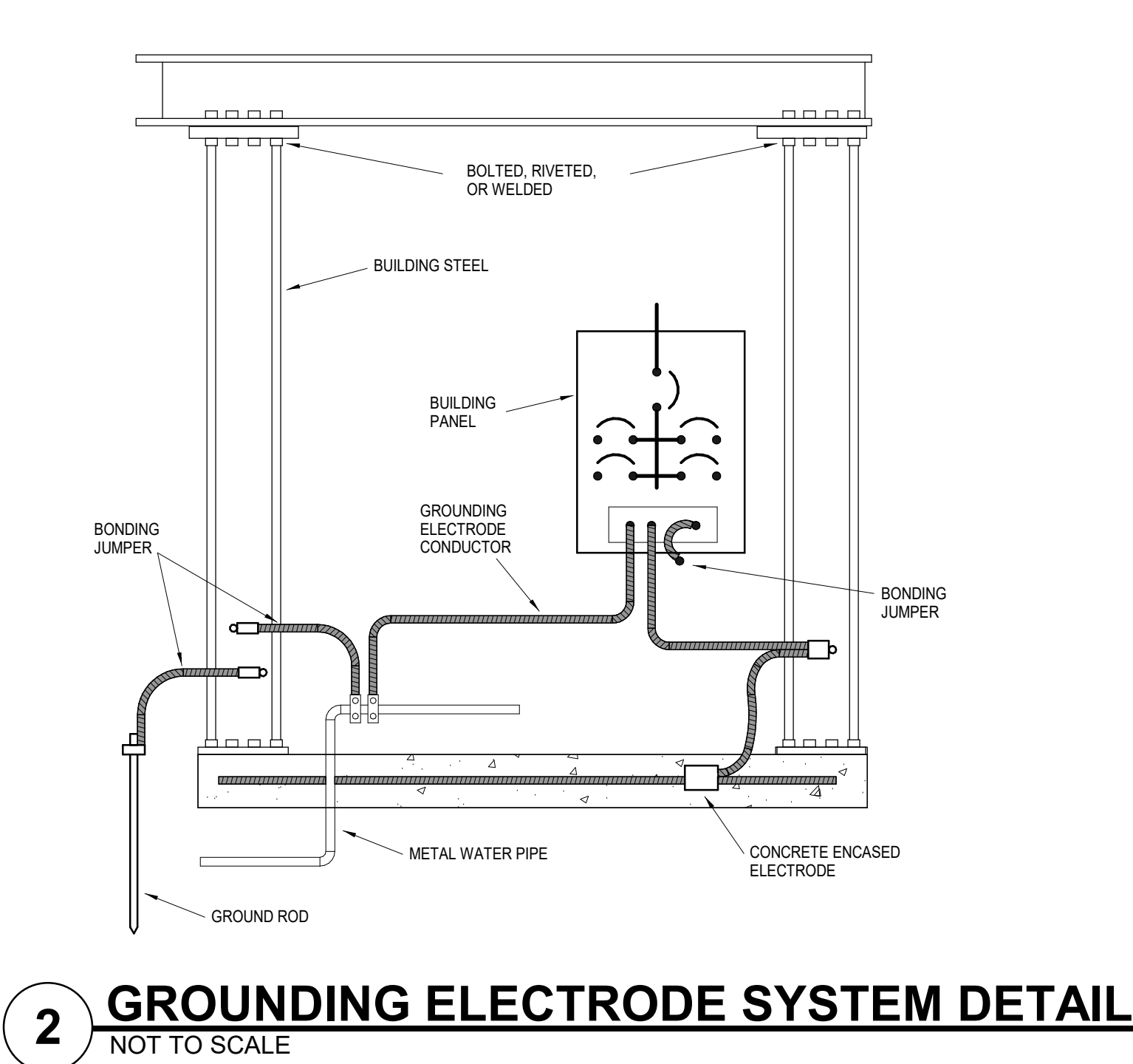
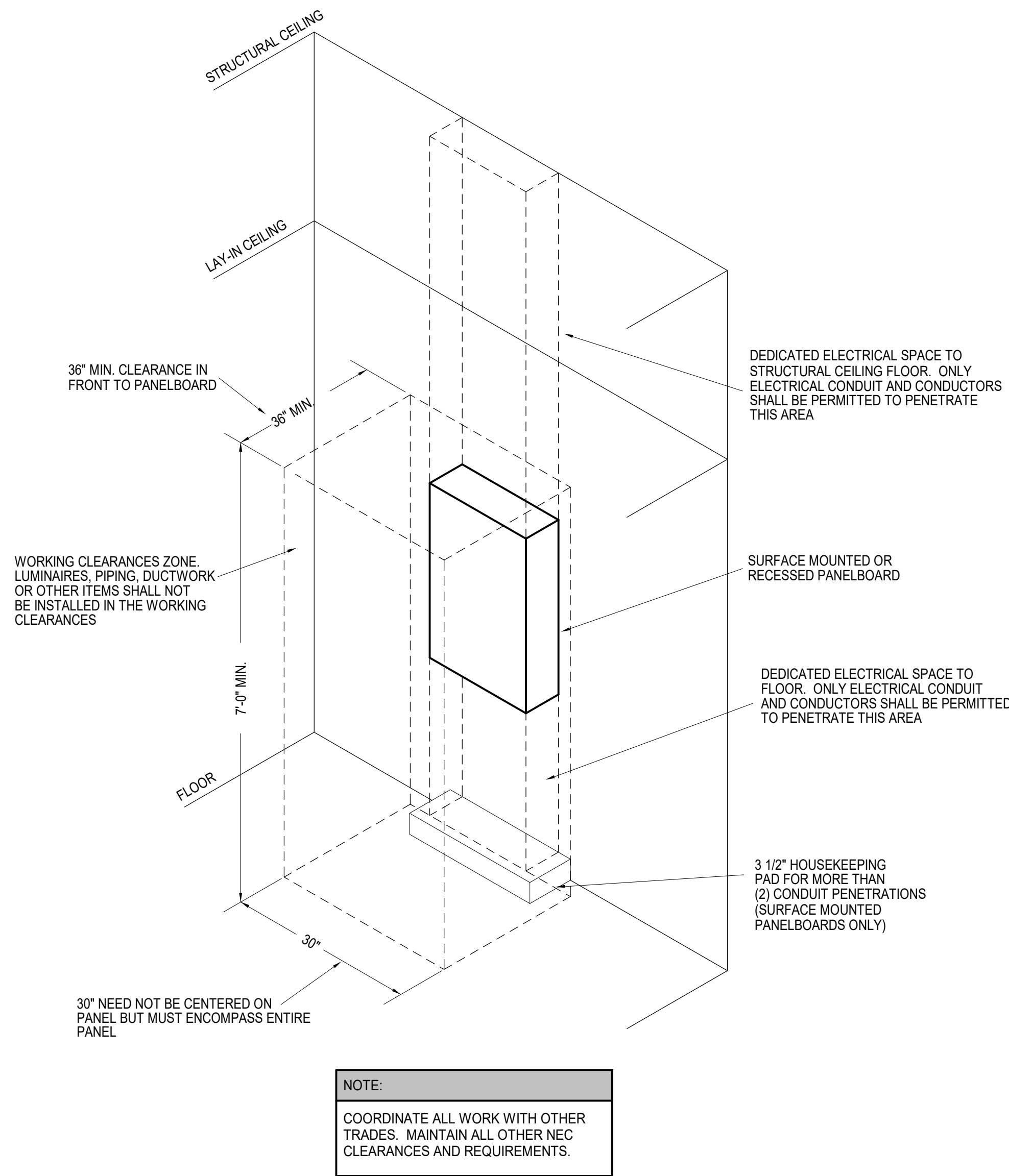
2 **UNIT - GUEST SUITE**
ELECTRICAL
1/4" = 1'-0"

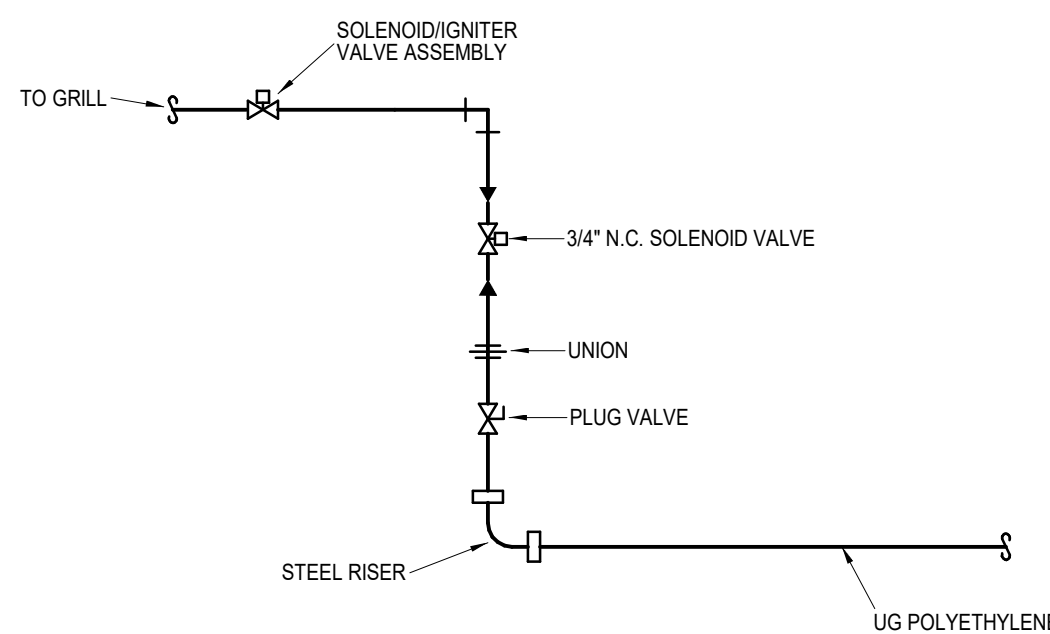


5 **TYPICAL COND. UNIT DETAIL**
NOT TO SCALE

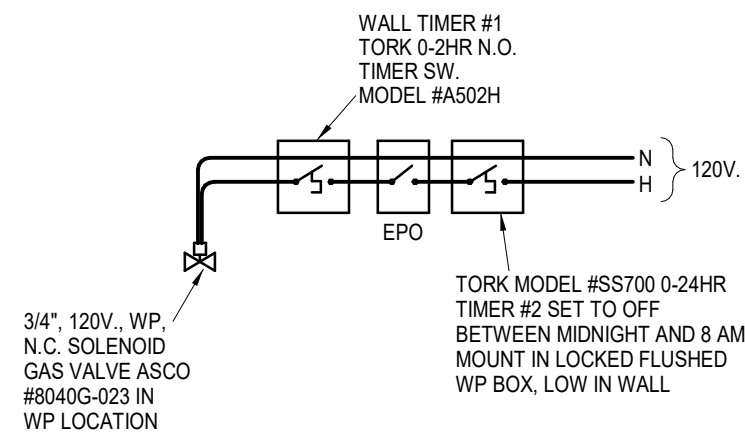
- UNIT ELECTRICAL NOTES:**
1. CEILING FAN SWITCHES PROVIDED WITH FAN, CONTROL LIGHT AND FAN SEPARATELY, INTENDED FOR SINGLE GANG BOX.
 2. CENTER KITCHEN ISLAND PENDANT LIGHTS OVER BASE BACK WALL AND CENTERED EQUALLY LEFT TO RIGHT OVER SINK. THESE ARE SEPARATELY SWITCHED.
 3. GENERALLY CENTER LIGHT ON WINDOWS, DOOR, HALLWAYS, SINKS, OVER TUBS, ETC. VERIFY ALL LOCATIONS IN EACH UNIT DIMENSIONALLY WITH ARCHITECT, INTERIOR DESIGNER AND OWNER. MOUNT SWITCHES CLOSE TO DOORS OR WALL CORNERS.
 4. THERMOSTATS HAVE LOW VOLTAGE WIRE BACK TO AHU. CONDENSING UNITS HAVE LOW VOLTAGE WIRE BACK TO AHU.
 6. Ⓢ = 120V. SMOKE ALARM WITH BATTERY BACK-UP AND AUXILIARY CONTACT SO ALL SOUND TOGETHER.
 7. CO ALARM JUST OUTSIDE BEDROOMS ONLY AND NOT TWO FLOORS ABOVE GARAGE LEVEL. BLDG 3 AND 4 HAVE NO CO ALARMS.
 8. ALL ARC—FAULT CIRCUIT BREAKERS SHALL BE COMPATIBLE WITH CEILING FANS, COMPACT AND STANDARD FLUORESCENT AND LED LAMPS/FIXTURES AND OTHER ELECTRONIC DEVICES.
 9. PROVIDE PROTECTION AT ELECTRICAL BOXES AT RATED CEILING MEMBRANES PER IBC 712.4.1.2(2). BOXES TO BE LISTED FOR RATED MEMBRANES, NOT EXCEED 16 SQUARE INCHES, NOT COMBINE FOR MORE THAN 100 SQUARE INCHES IN 100 SQUARE FEET AND ANNULAR SPACE NOT EXCEED 1/8".
 10. FIRE ALARM HORN/STROBE CIRCUITS SHALL BE SIZED TO ACCEPT BEDROOM HORN/STROBES IN FUTURE INCLUDING WIRING AND PANEL CAPACITY.
 11. ALL RANGES SERVED BY (3) #8 A (1) # 10 AND 50A. RECEPTACLE.
 12. ALL WATER HEATERS SERVED BY (3) #10. ALL DRYERS SERVED BY (4) #10 AND 30A. RECEPTACLE.
 13. ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48".
 14. MOUNT TV OUTLET AND ADJACENT PLUG AT 48" AFF. ROOMS AND BEDROOMS.
 15. SEE HVAC SCHEDULE AND SHOP DRAWINGS FOR AHU AND HEAT PUMP CIRCUITS.
 16. MOUNT TOP BREAKER IN UNIT PANELS AT 48" AFF.
 17. BELOW COUNTER RECEPTACLES AND PLATES SHALL MATCH THE BASE CABINET'S WHERE THEY ARE MOUNTED (BROWN, WHITE, ETC.) VERIFY WITH ARCHITECT.
 18. PROVIDE ALTERNATE FOR ARC-FAULT CIRCUITS AS SHOWN. BASE BID TO HAVE ARC-FAULT ON BEDROOM AND LIVING ROOM CKTS ONLY.

- LEGEND:**
- ① SWITCHED RECEPTABLE FOR GARBAGE DISPOSER. CONTINUE CIRCUIT TO DISHWASHER. TO GFI BREAKER.
 - ② PROVIDE ARC-FAULT BREAKER IN PANEL.
 - ③ TELE/TV DEMARK FLUSH BOX WITH DUPLEX OUTLET. SEE DETAIL.
 - ④ SWITCHES FOR OVERHEAD MW FAN & LIGHT.
 - ⑤ SMOKE ALARM TO HAVE STROBES.
 - ⑥ TOP FLOOR UNITS TO RECEIVE WALL SCONE TYPE "B".
 - ⑦ TO COMBINATION GFI AND ARC FAULT BREAKER.



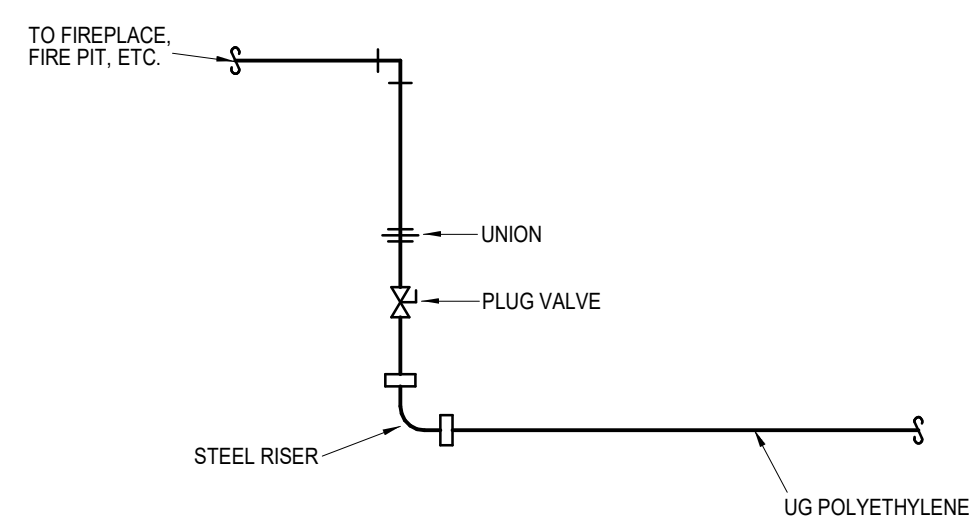


PIPING SCHEMATIC

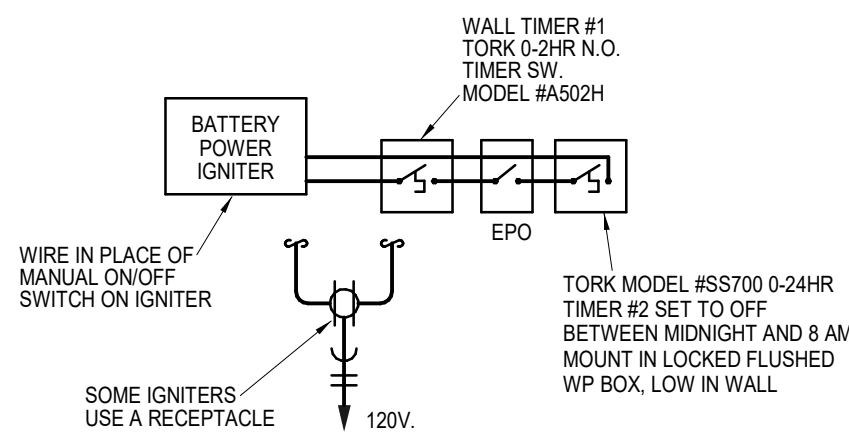


CONTROL SCHEMATIC (GRILL)

1 **GAS GRILL/FIRE PIT DETAIL**
NOT TO SCALE

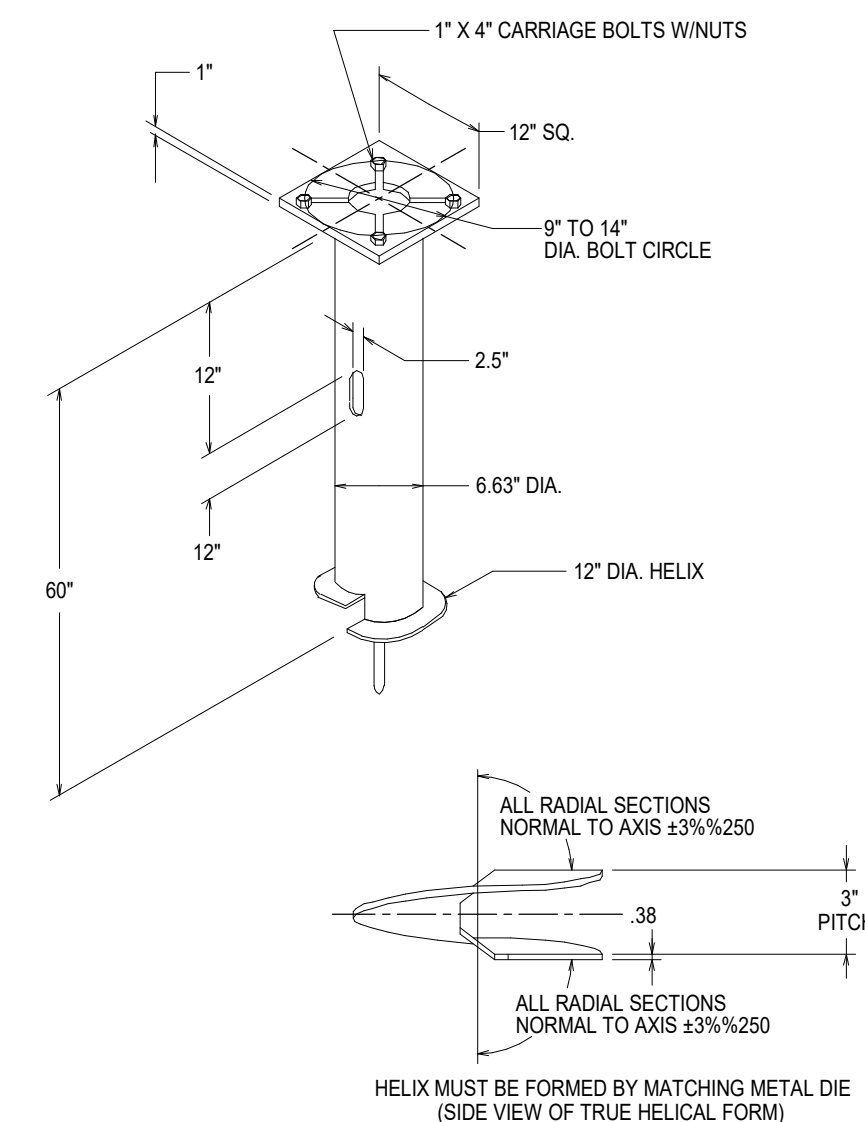
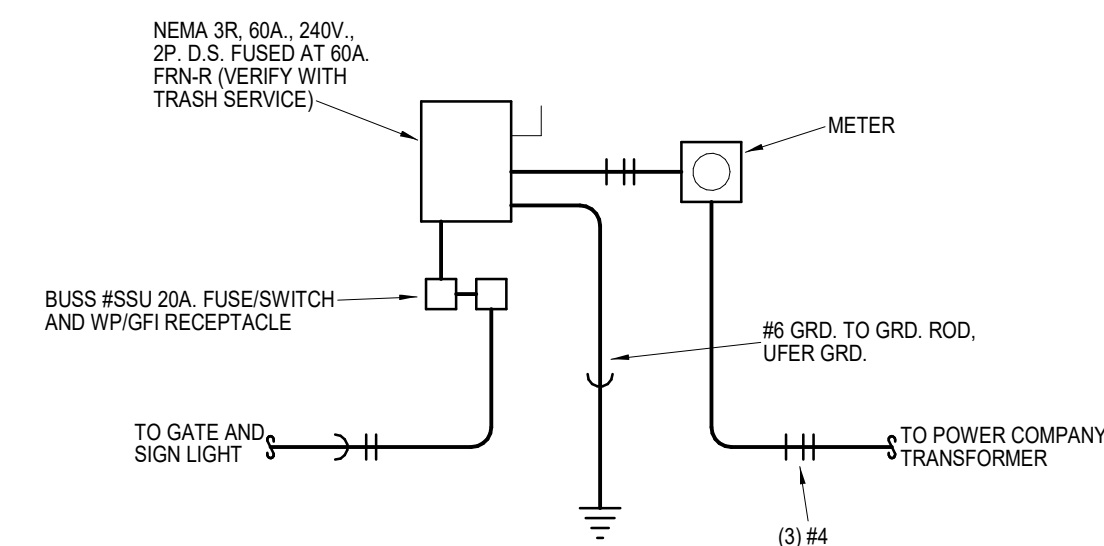


PIPING SCHEMATIC



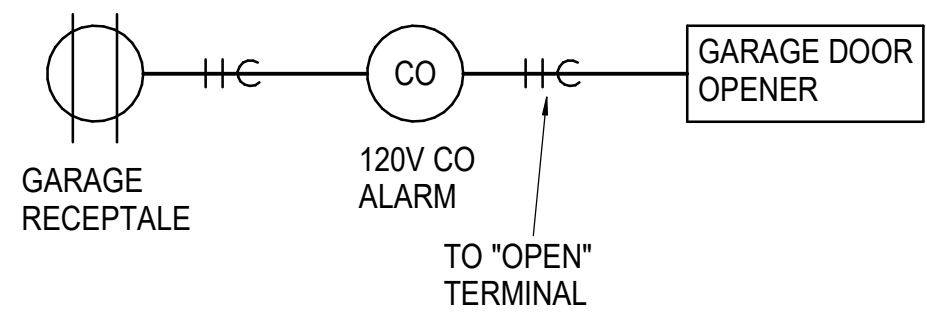
CONTROL SCHEMATIC (FIRE PIT)

2 **COMPACTOR ELECTRICAL SERVICE DETAIL**
NOT TO SCALE



- NOTES-**
1. FINISH: HOT DIP GALVANNE PER ASTM A153 (LATEST REVISION).
 2. BASE PLATE TO BE PERPENDICULAR TO SHAFT AXIS (±1/16\"/>
 3. STENCIL: MIN. 1/2 IN. LETTERS MANUFACTURER'S NUMBER AFTER GALVANIZING.
 4. PILOT POINT AND SHAFT AXES TO BE CONCENTRIC (±.125 FIM) AND IN THE SAME PLANE.
 5. FLAME CUT SLOT PERPENDICULAR TO THE BASE PLATE.
 6. PRE-HEAT, TUMBLE-BLAST, HAND-GRIND, AND CLEAN BASE PLATE, HELIX AND PILOT POINT ON ALL WELDED AREAS.
 7. FLAME CUT PERPENDICULARITIES PERMISSIBLE: (1) VALVEWAYS NOT TO EXCEED .030 IN. BELOW NOMINAL SURFACE LEVEL; (2) PEAKS OR GROOVES PERPENDICULARITIES NOT TO EXCEED .030 IN. ABOVE NOMINAL SURFACE LEVEL OR INTERSECTIONS OF NOMINAL SURFACES.
 8. MANUFACTURER TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES.
 9. ALL MATERIAL IS TO BE NEW, UNUSED AND MILL TRACEABLE MEETING THE FOLLOWING SPECIFICATIONS:
BASE PLATE: ASTM A36 (LATEST REVISION) HOT ROLLED STEEL PLATE, (CONFORM TO AASHTO TECH. BUL. #270)
SHAFT: STEEL PIPE PILES, SEAMLESS OR STRAIGHT WELDED, 60,000 PSI YIELD STRENGTH, A53, 20\"/>
 10. BASE PLATE IS PERMANENTLY STAMPED WITH MANUFACTURER'S IDENTIFICATION ABC IN 1/2\"/>

3 **LIGHT POLE FOUNDATION DETAIL**
NOT TO SCALE

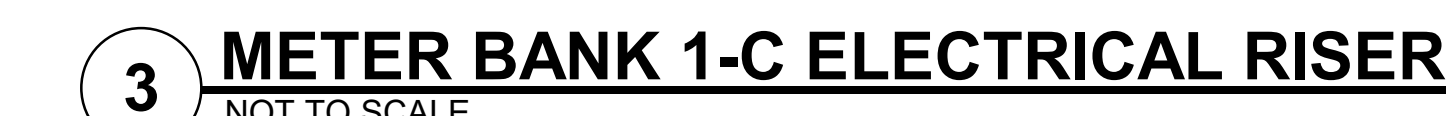
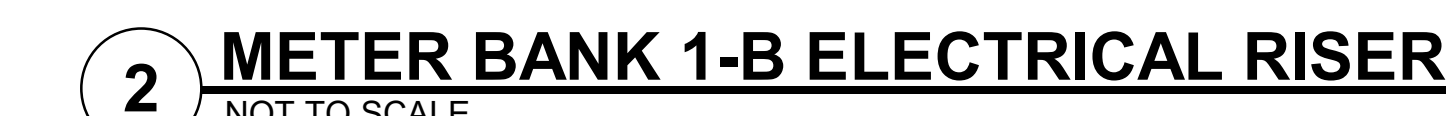


SEQUENCE:
GARAGE DOOR
TO OPEN WHEN
CO SENSOR IS
TRIPPED

4 **GARAGE CARBON MONOXIDE SENSOR DOOR CONNECTION DETAIL**
NOT TO SCALE



03/15/2023

[illegible]

FEEDER SCHEDULE							
MARK	QCP	SETS	NO. COND.	SIZE ALUM.	SIZE GRD.	CONDUIT	
0.1	0 A	1	1		3/0 CU	#2	
1	1600 A	5		600 KCMIL		#4	
2	1200 A	4	4	500 KCMIL		#3	
3	1000 A	3	3	400 KCMIL		#4	
4	600 A	2	4	500 KCMIL	#20	#3	
5	400 A	2	4	#10	#1	#2	
6	225 A	1	1	300 KCMIL	#2	#3	
7	100 A	1	4	#10	#4	#2	

APARTMENT PANEL FEEDER - TYPE SER ALUMINUM	
100A.: 2 - 2 - 2 - 6 UP TO 120 FT. 1 - 1 - 1 - 4 UP TO 150 FT. 0 - 0 - 0 - 4 UP TO 185 FT. 2/0 - 2/0 - 2/0 - 3 UP TP 235 FT.	110A.: 1 - 1 - 1 - 4 UP TO 135 FT. 0 - 0 - 0 - 4 UP TP 170 FT. 2/0 - 2/0 - 2/0 - 3 UP TO 215 FT.

NOTE:

- UNDERGROUND CONDUIT MATERIAL = SCH. 40 PVC.
- CONDUCTOR INSULATION = THHN/THWN.

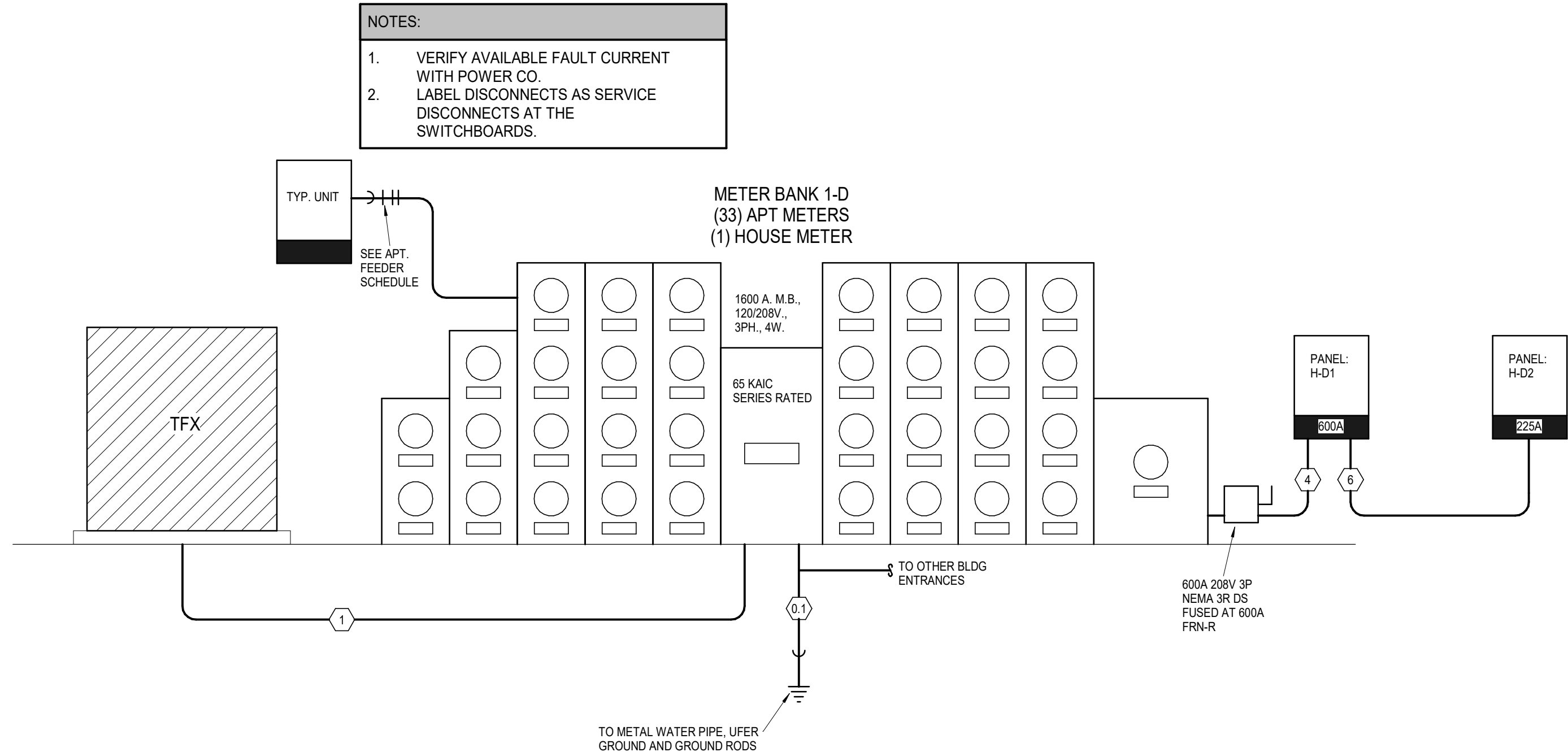
PERMANENT PLACARDS SHALL BE POSTED AT EACH EXTERIOR SERVICE ENTRANCE AND METER BANK TO DISPLAY AREA SERVED.

SEE UNIT LOAD CALCS FOR APT PANEL BREAKER, 100A/2P, 110A/2P.

MULTI-FAMILY BUILDING LOAD ANALYSIS BLDG 1									
Panel	Total Units	Total Connected Load	Total KVA	NEC Building Diversity	Diversified KVA	Amps @ 208V/3PH	House Load	Total Demand - Amps	
Unit Type (Connected Load)	Unit Quantity	Sum of Units							
METER BANK 1-A	43	1,367,095 VA	1367	27%	369	1025	0	1025	
1-1-(28,670 VA)	3	86010 VA							
2-1-(28,670 VA)	4	114680 VA							
3-3 ALT-(28,880 VA)	6	173280 VA							
4-1-(31,500 VA)	3	94500 VA							
5-1-(31,740 VA)	1	31740 VA							
6-1-(33,730 VA)	4	134920 VA							
7-1 ALT-(33,730 VA)	4	134920 VA							
8-1-(33,970 VA)	7	237760 VA							
9-1-(33,940 VA)	4	135760 VA							
10-1-(34,810 VA)	3	104430 VA							
11-1-(34,960 VA)	1	34960 VA							
12-1-(28,025 VA)	3	84075 VA							
METER BANK 1-B	16	509,540 VA	510	39%	199	552	600	1152	
1-3-(28,880 VA)	6	173280 VA							
2-1-(33,730 VA)	5	168650 VA							
3-1-QUEST SUITE-(27,650 VA)	1	27650 VA							
4-1-(34,960 VA)	4	139860 VA							
METER BANK 1-C	35	1,098,760 VA	1089	30%	327	907	0	907	
1-1-(28,670 VA)	4	114680 VA							
2-1-(28,880 VA)	7	202160 VA							
3-1 ALT-(31,590 VA)	4	126360 VA							
4-1-(32,31,860 VA)	4	127560 VA							
5-1-(33,730 VA)	8	269840 VA							
6-1-(34,015 VA)	4	136060 VA							
7-1-(28,025 VA)	4	112100 VA							
METER BANK 1-D	33	1,012,230 VA	1012	31%	314	872	400	1272	
1-1-(28,670 VA)	2	57340 VA							
2-1-(28,670 VA)	5	143350 VA							
3-2 TYPE A-(28,670 VA)	1	28670 VA							
4-1-(28,880 VA)	6	173280 VA							
5-1 ALT-(28,880 VA)	4	115520 VA							
6-1-(31,500 VA)	2	63000 VA							
7-1-(33,730 VA)	5	168650 VA							
8-1-(33,940 VA)	3	101820 VA							
9-1 ALT 2-(34,780 VA)	2	69560 VA							
10-1-(34,960 VA)	1	34960 VA							
11-1-(28,025 VA)	2	56050 VA							
METER BANK 1-E	38	1,190,875 VA	1191	29%	345	930	0	959	
1-1-(28,670 VA)	3	86010 VA							
2-1-(28,670 VA)	1	28670 VA							
3-1-(28,880 VA)	10	288800 VA							
4-1-(31,500 VA)	3	94500 VA							
5-1-(33,730 VA)	9	303870 VA							
6-1 ALT 2-(33,730 VA)	1	33730 VA							
7-1 TYPE A-(33,730 VA)	1	33730 VA							
8-1-(33,970 VA)	7	237760 VA							
9-1-(28,025 VA)	3	84075 VA							

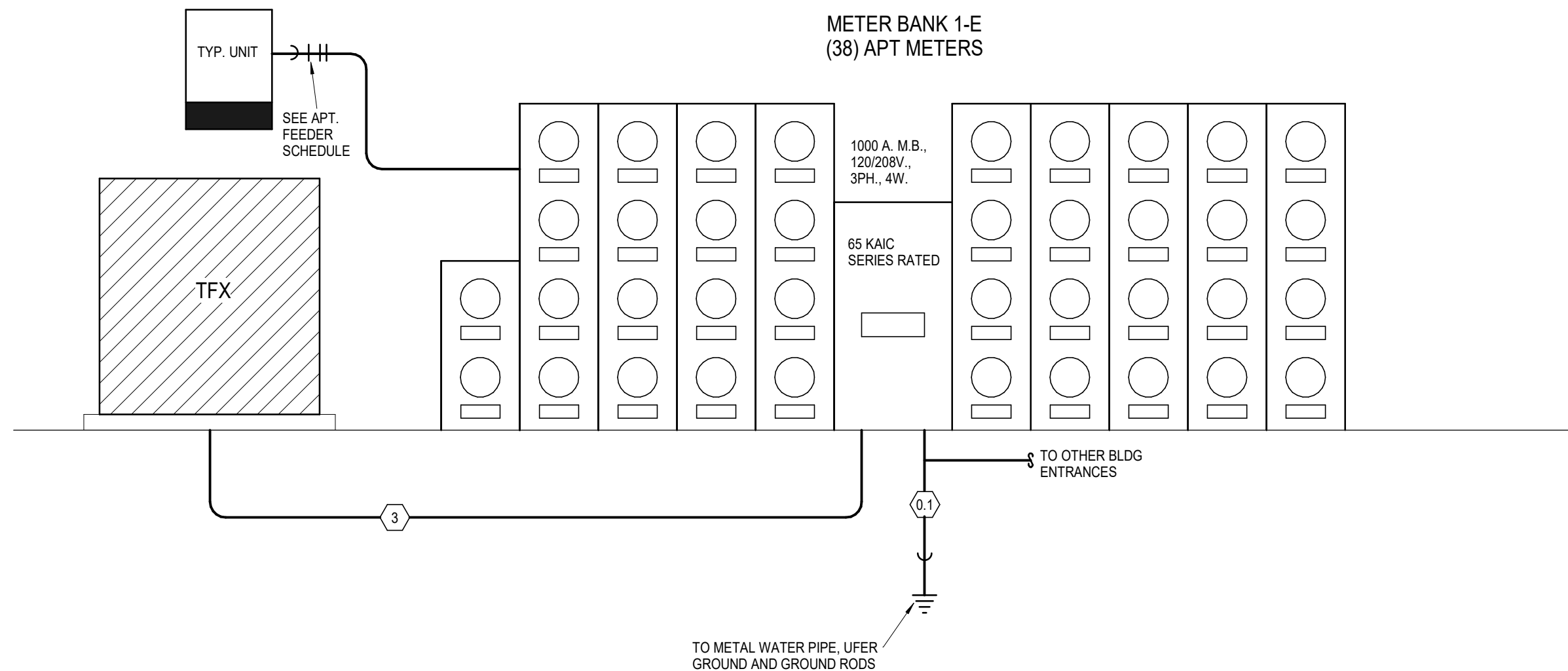
MULTI-FAMILY BUILDING LOAD ANALYSIS BLDG 2									
Panel	Total Units	Total Connected Load	Total KVA	NEC Building Diversity	Diversified KVA	Amps @ 208V/3PH	House Load	Total Demand - Amps	
Unit Type (Connected Load)	Unit Quantity	Sum of Units							
METER BANK 2-F	34	1,031,045 VA	1031	30%	309	859	400	1259	
1-1(-28,670 VA)	3	86010 VA							
2-2(-28,670 VA)	3	86010 VA							
3-3(-28,880 VA)	9	259820 VA							
4-3 ALT (-28,880 VA)	4	115520 VA							
5-1(-31,500 VA)	3	94500 VA							
6-3(-33,730 VA)	2	67460 VA							
7-1 ALT 2(-33,730 VA)	1	33730 VA							
8-2(-33,970 VA)	6	203820 VA							
9-1(-28,025 VA)	3	84075 VA							
METER BANK 2-G	45	1,432,390 VA	1432	27%	387	1074	0	1074	
1-2(-28,670 VA)	5	143350 VA							
2-2 TYPE A (-28,670 VA)	2	57340 VA							
3-3(-28,880 VA)	3	86640 VA							
4-1(-33,730 VA)	4	115520 VA							
5-4(-28,730 VA)	3	96190 VA							
6-3(-31,590 VA)	4	126360 VA							
7-1(-33,730 VA)	10	337300 VA							
8-1 ALT (-33,730 VA)	4	134620 VA							
9-1 TYPE A (-33,730 VA)	1	33730 VA							
10-3(-33,940 VA)	3	101820 VA							
11-1(-34,810 VA)	4	139240 VA							
12-4(-34,990 VA)	2	69980 VA							
METER BANK 2-H	30	922,860 VA	923	33%	305	846	0	846	
1-1(-28,670 VA)	4	114680 VA							
2-3 ALT (-28,880 VA)	10	288800 VA							
3-1(-33,730 VA)	10	337300 VA							
4-4(-34,990 VA)	2	69980 VA							
5-1(-28,025 VA)	4	112100 VA							
METER BANK 2-J	33	1,083,060 VA	1083	31%	338	933	400	1333	
1-2(-28,670 VA)	3	86010 VA							
2-3(-28,880 VA)	3	86640 VA							
3-1(-31,500 VA)	3	94500 VA							
4-1(-33,730 VA)	10	337300 VA							
5-1 TYPE A (-33,730 VA)	1	33730 VA							
6-2(-33,970 VA)	6	203820 VA							
7-3(-33,940 VA)	3	101820 VA							
8-1(-34,810 VA)	4	139240 VA							

MARK	DESCRIPTION	MFGR	MODEL	MOUNTING	FINISH	LAMPS	NOTES
A1	Disk Light	Halo	SLD612/8027/WH	jb/surface	white	1200 Lumen 2700K 15W LED	Wet Location
A1	Unit Disk Light	RP Lighting	8556-90-90	jb/surface	CONFIRM	1000 Lumen 2700K 15W LED	
B	Patio Sconce	Kichler	9234BK	wall	Black	1-10W LED	Wet Location
C	Shower Disk Light	Halo	SLD606/8027/WH	jb/surface	white	600 Lumen 2700K 10W LED	Wet Location
D	Vanity Sconce	Sunset Lighting	F2663-80-LED-JA8	wall	br. Nickel	1740 Lumen 24W LED	
E	Kitchen Pendant	Lithology	MKL542186	jb/surface	white	1-13W 3000K LED	
F	5-blade fan, 3-spd, rev. w/globe	Westinghouse	72059 - 52"	surface	br. Nickel	2-8W LED	Energy Star Rated
G	NOT USED						
H	NOT USED						
J	Closest Light	Luminaire	F1712-53-LED	jb/surface	CONFIRM	1500 Lumen 3000K 20W	
K	Exterior Sconce	Kichler	9234BK (CONFIRM WITH ARCH/OWNER)	wall	black	1-10W LED	Wet Location
L	Strip Light	Lithonia	CSS-L48-4000LM-MVOLT-40K-80CRI	surface	white	4000 Lumen 4000K LED	
L1	Strip Light	Lithonia	CSS-L48-4000LM-MVOLT-40K-80CRI	surface	white	4000 Lumen 4000K LED	With 2HR Battery
M	Vapor Tight Strip	Lithonia	CSVT-L48-4000LM-MVOLT-35K-80CRI-E7/WCP	surface	white	4000 Lumen 3500K LED	With 2HR Battery
N	Surface Downlight	Satco	62-1312	jb/surface	white	1050 Lumen 3000K 15W	
X1	Exit	Progress	PETPE-UR-30-RC	surface	white/red	1.5W LED	
X2	Exit w/heads	Progress	PECUE-UR-30-RC	surface	white/red	1.5W LED	
X3	Dual-Head Emergency	NICOR	EML7	surface	std	700 lumen	
X4	Exterior Remote Head	Progress	PERHC-SG-OD-30	surface	std	1W LED	



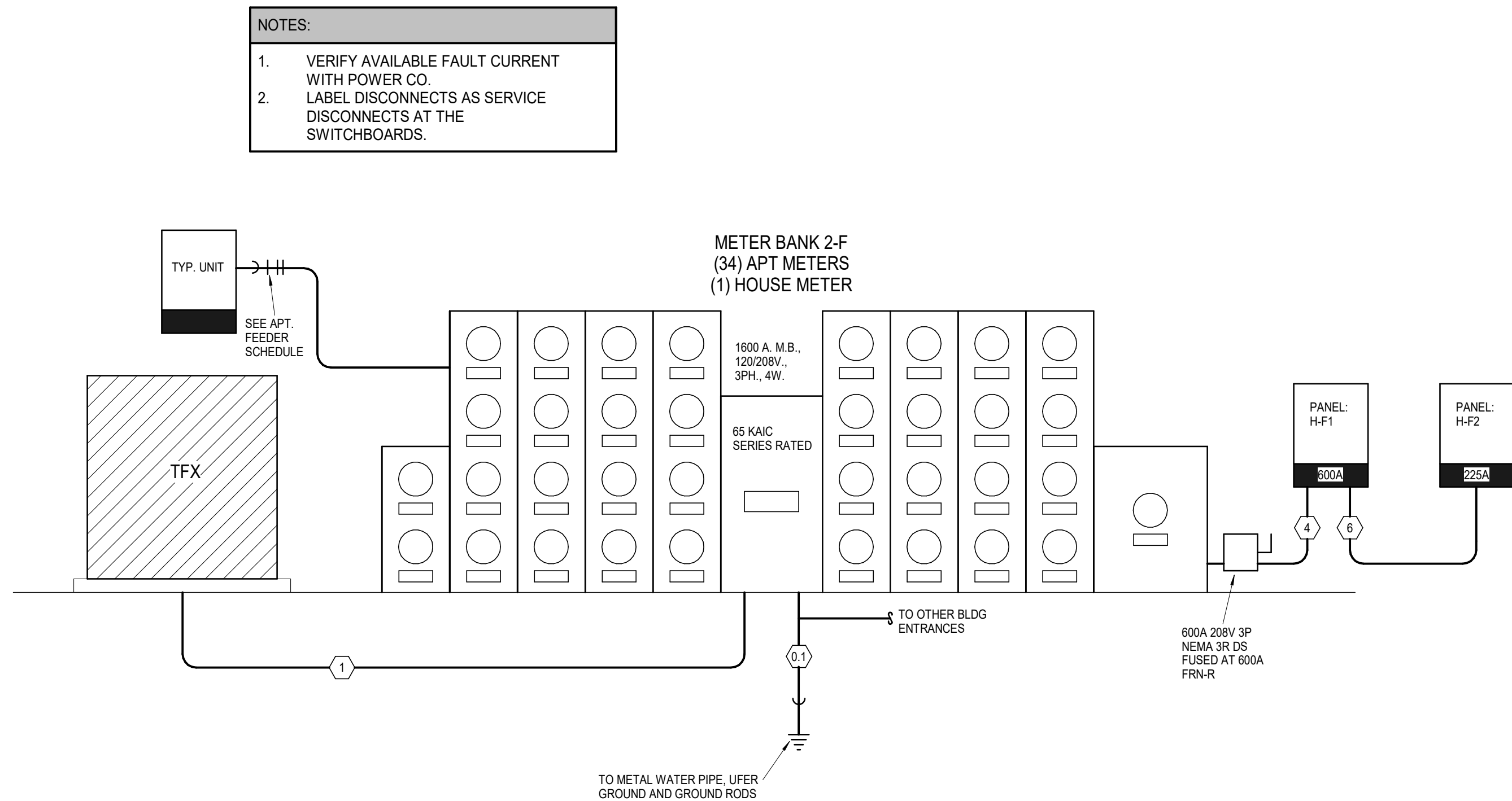
1 METER BANK 1-D ELECTRICAL RISER

NOT TO SCALE



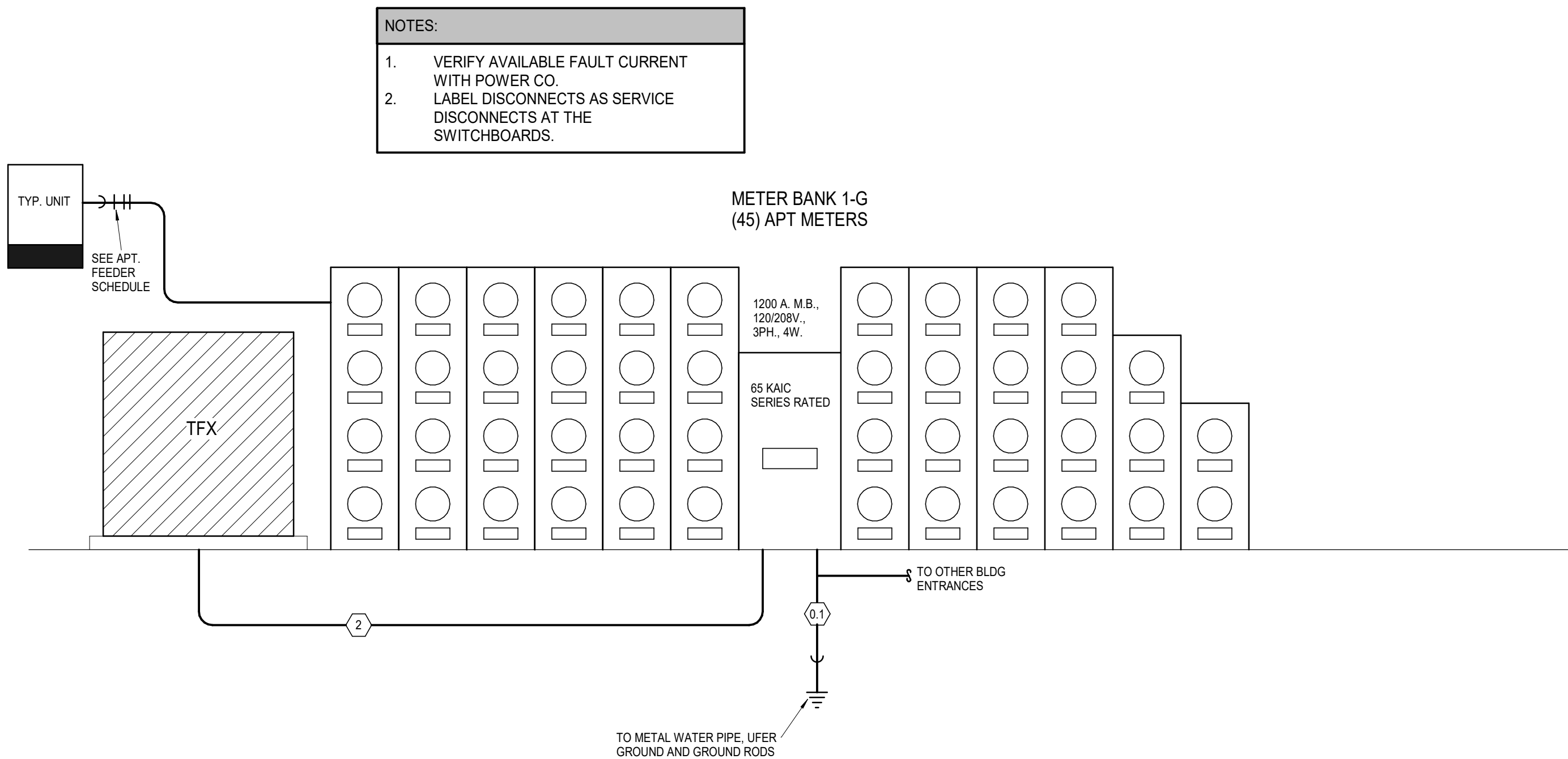
2 METER BANK 1-E ELECTRICAL RISER

NOT TO SCALE



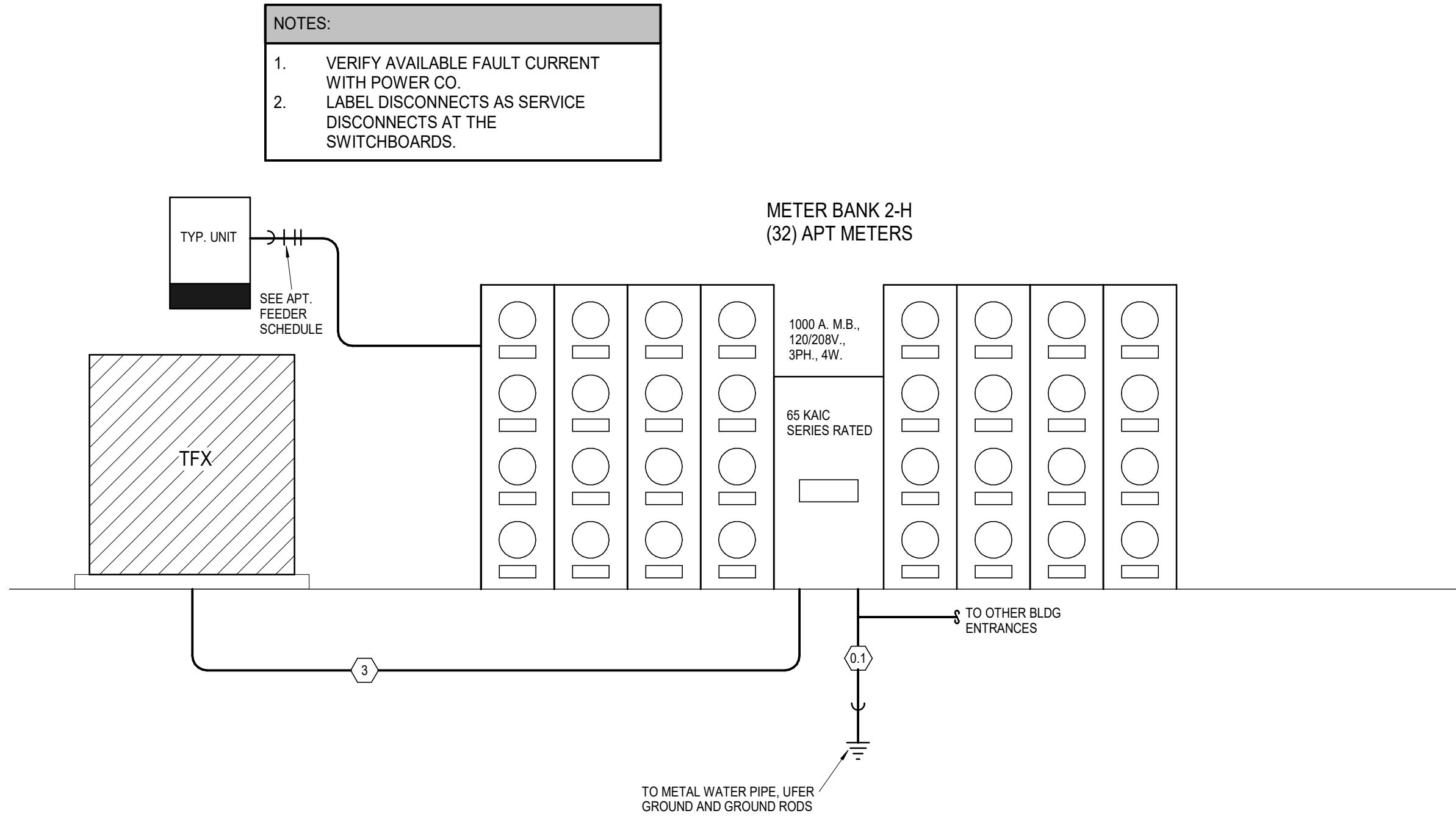
3 METER BANK 2-F ELECTRICAL RISER

NOT TO SCALE



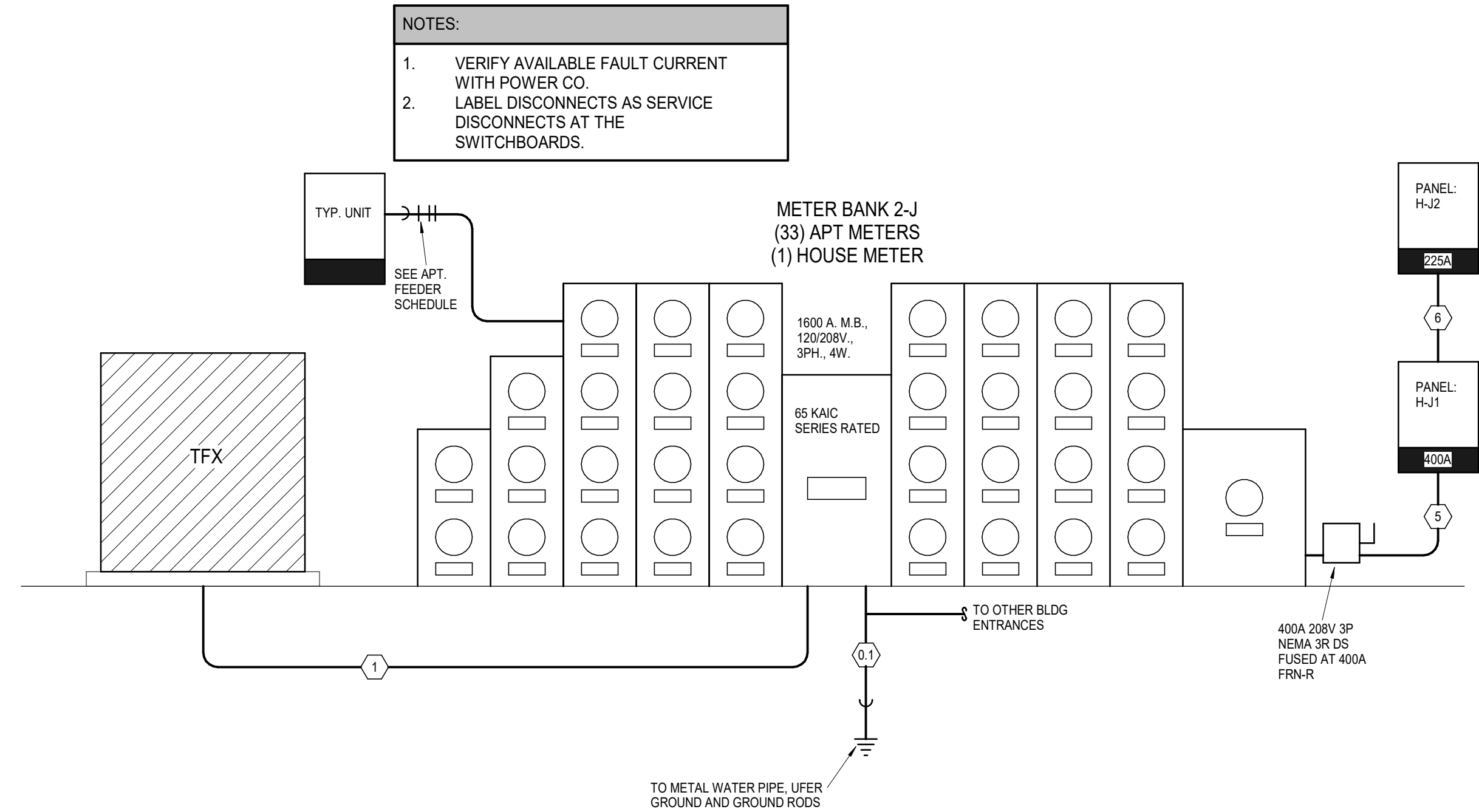
4 METER BANK 2-G ELECTRICAL RISER

NOT TO SCALE



5 METER BANK 2-H ELECTRICAL RISER

NOT TO SCALE



6 METER BANK 2-J ELECTRICAL RISER

NOT TO SCALE

FEEDER SCHEDULE						
MARK	OCB	SETS	NO. COND.	SIZE ALUM.	SIZE GRD.	CONDUIT
0.1	0 A	1	1		3/8 CU	2"
1	1600 A	5	4	600 KCMIL		4"
2	1200 A	4	4	500 KCMIL		3"
3	1000 A	3	4	600 KCMIL		4"
4	600 A	2	4	500 KCMIL	#20	3"
5	400 A	2	4	300 KCMIL	#1	2"
6	225 A	1	4	300 KCMIL	#2	3"
7	100 A	1	4	#10	#4	2"

Panel: H-B1 (1)											
Location: Supply From: Mounting: Enclosure:				Volts: 120/208 Wye Phases: 3 Wires: 4				A.I.C. Rating: Mains Type: Mains Rating: MCB Rating:			
Notes:											
CKT	Circuit Description	Trip	Wire Size	A	B	C	Wire Size	Trip	Circuit Description	CKT	
1	Lighting STAIR B2 234	20 A		0	0			20 A	Lighting STAIR B1 233	2	
3	AHU-HB9	20 A			0	195		20 A	Lighting	4	
5	Receptacle Space 2240	20 A					360 360	20 A	Receptacle Space 2240	6	
7	Receptacle Space 2240	20 A	360	195				20 A	Lighting	8	
9	Lighting Space 2240	20 A			15	15		20 A	Lighting Space 2240	10	
11	Receptacle ELEV. C 235	20 A					180 180	20 A	Receptacle ELEV. C 235	12	
13	Receptacle ELEV. C 313	20 A		180	0			20 A	Power ELEV. C 318	14	
15					0	240		20 A	Lighting	16	
17	Power ELEV. C 318	20 A				0	0	20 A	Lighting	18	
19				0	0			20 A	AHU-HC2	20	
21	Receptacle ELEV. LOBBY 308	20 A			720	720		20 A	Receptacle ELEV. LOBBY 308	22	
23	Receptacle ELEV. LOBBY 308	20 A					720 240	20 A	Lighting	24	
25	Lighting ELEV. LOBBY 312	20 A	240	225				20 A	Lighting	26	
27					0	360		20 A	Lighting	28	
29	AHU-HC1	20 A				0	4444	20 A	Lighting	30	
31	Lighting ELEV. C 235	20 A	480	7336				20 A	H1-B2	32	
33	Lighting ELEV. F 369	20 A			240	8376				34	
35										36	
37										38	
39										40	
41										42	
43										44	
45										46	
47										48	
49										50	
51										52	
53										54	
			Total Load:	25809 VA	22064 VA	17699 VA					
			Total Amps:	221 A	180 A	147 A					
Legend:											
Load Classification			Connected Load	Demand Factor	Estimated...	Panel Totals					
HVAC			50544 VA	100.00%	50544 VA						
Lighting			3870 VA	125.00%	4838 VA	Total Conn. Load: 65572 VA					
Other			0 VA	0.00%	0 VA	Total Est. Demand: 65827 VA					
Power			0 VA	0.00%	0 VA	Total Conn.: 182 A					
Receptacle			11340 VA	94.09%	10670 VA	Total Est. Demand: 183 A					
Notes:											

Panel: H-B1 (2)											
Location:				Volts: 120/208 Wye				A.I.C. Rating:			
Supply From:				Phases: 3				Mains Type:			
Mounting:				Wires: 4				Mains Rating:			
Enclosure:								MCB Rating:			
Notes:											
CKT	Circuit Description	Trip	Wire Size	A	B	C	Wire Size	Trip	Circuit Description	CKT	
55	CU-HB7	20 A		2808	2808			20 A	CU-HB6	56	
57					2808	2808				58	
59	CU-HB5	20 A		2808	2808	2808	2808	20 A	CU-HB4	60	
61				2808	2808					62	
63	EUH-A	20 A			0	2808		20 A	CU-HB3	64	
65										66	
67	CU-HB2	20 A		2808	2808	2808	2808	20 A	CU-HB1	68	
69					2808					70	
71										72	
73										74	
75	DSS-STAIR	20 A			0	0		20 A	DSS-STAIR	76	
77						0	0			78	
79										80	
81										82	
83										84	
85										86	
87										88	
89										90	
91				0				20 A	Power	92	
93					0					94	
95										96	
				Total Load:	16848 VA	11232 VA	11232 VA				
				Total Amps:	140 A	94 A	94 A				
Legend:											
Load Classification				Connected Load	Demand Factor	Estimated...	Panel Totals				
HVAC				39312 VA	100.00%	39312 VA	Total Conn. Load: 39312 VA				
Power				0 VA	0.00%	0 VA	Total Est. Demand: 39312 VA				
							Total Conn.: 109 A				
							Total Est. Demand: 109 A				
Notes:											

Panel: H-B2													
Location: Supply From: Mounting: Enclosure:				Volts: 120/208 Wye Phases: 3 Wires: 4				A.I.C. Rating: Mains Type: Mains Rating: MCB Rating:					
Notes:													
CKT	Circuit Description	Trip	Wire Size	A		B		C		Wire Size	Trip	Circuit Description	CKT
1	AHU-HA1	20 A		0	900						20 A	Receptacle ELEV. LOBBY 291	2
3						0	0				20 A	EUH-A	4
5	Receptacle ELEV. A 223	20 A						240	180		20 A	Receptacle ELEV. A 223	6
7	Receptacle ELEV. A 223	20 A		180	1000						20 A	Receptacle GARAGE-1 224-1	8
9	Receptacle ELEV. LOBBY 291	20 A				720	1000				20 A	Receptacle GARAGE 226	10
11	Receptacle GARAGE 228	20 A						1000	900		20 A	Receptacle ELEV. LOBBY 291	12
13	Receptacle GARAGE 230	20 A		500	1000						20 A	Receptacle GARAGE 231	14
15	EUH-A	20 A				0	0				20 A	Receptacle GARAGE 231	16
17	Lighting	20 A						285	0		20 A	AHU-HA2	18
19	Lighting STAIR A 288	20 A		90	570						20 A	Lighting	20
21						0	0				20 A	Power ELEV. 301	22
23	Power ELEV. 301	20 A						0	180		20 A	Receptacle ELEV. 301	24
25				0	240						20 A	Lighting ELEV. 301	26
27						2808	2808						28
29	CU-HA2	20 A						2808	2808		20 A	CU-HA1	30
31													32
33													34
35													36
37													38
39													40
41													42
43													44
45													46
47													48
49													50
51													52
53													54
				Total Load:	4444 VA	7336 VA	8376 VA						
				Total Amps:	37 A	65 A	74 A						
Legend:													
Load Classification				Connected Load	Demand Factor	Estimated...	Panel Totals						
HVAC				11232 VA	100.00%	11232 VA							
Lighting				1425 VA	125.00%	1781 VA	Total Conn. Load: 20151 VA						
Other				0 VA	0.00%	0 VA	Total Est. Demand: 20492 VA						
Power				0 VA	0.00%	0 VA	Total Conn.: 56 A						
Receptacle				7560 VA	100.00%	7560 VA	Total Est. Demand: 57 A						
Notes:													

Panel: H-D1											
Location: Supply From: Mounting: Enclosure:				Volts: 120/208 Wye Phases: 3 Wires: 4				A.I.C. Rating: Mains Type: Mains Rating: MCB Rating:			
Notes:											
CKT	Circuit Description	Trip	Wire Size	A	B	C	Wire Size	Trip	Circuit Description	CKT	
1	AHU-HD1	20 A		0	405			20 A	Lighting	2	
3					0	360		20 A	Receptacle GARAGE 202	4	
5	Receptacle GARAGE 201	20 A					180 0	20 A	EUH-A	6	
7	Receptacle GARAGE 204	20 A	360 360					20 A	Receptacle GARAGE 206	8	
9	Lighting	20 A			30 0			20 A	EUH-A	10	
11	Receptacle GARAGE 199	20 A				360 360		20 A	Receptacle GARAGE 197	12	
13	Receptacle GARAGE 195	20 A	360 360					20 A	Receptacle GARAGE 193	14	
15	Receptacle GARAGE 191	20 A			360 720			20 A	Receptacle ELEV. LOBBY 320	16	
17	Receptacle ELEV. D 237	20 A				180 360		20 A	Receptacle ELEV. D 237	18	
19				0 0				20 A	Power ELEV. D 344	20	
21	Power ELEV. D 344	20 A			0			20 A		22	
23						0 900		20 A	Receptacle ELEV. LOBBY 320	24	
25	Receptacle ELEV. LOBBY 320	20 A	720 360					20 A	Lighting	26	
27	EUH-C	20 A			0 720			20 A	Lighting	28	
29						0 180		20 A	Receptacle ELEV. E 240	30	
31	CU-HC1	20 A		2808 2808				20 A	CU-HC2	32	
33					2808 2808			20 A		34	
35	DSS-STAIR	20 A				0 2808		20 A	CU-HD2	36	
37			0 2808							38	
39					2808 360			20 A	Lighting ELEV. D 237	40	
41	CU-HD1	20 A					2808 750	20 A	HVAC FIRERISER 321	42	
43	Lighting	20 A	360 750							44	
45										46	
47										48	
49										50	
51										52	
53										54	
Total Load:				12423 VA	10924 VA	8886 VA					
Total Amps:				106 A	94 A	74 A					
Legend:											
Load Classification			Connected Load	Demand Factor	Estimated...	Panel Totals					
HVAC			23964 VA	100.00%	23964 VA	Total Conn. Load:			32231 VA		
Lighting			1875 VA	125.00%	2344 VA	Total Est. Demand:			32679 VA		
Other			0 VA	0.00%	0 VA	Total Conn.:			69 A		
Power			0 VA	0.00%	0 VA	Total Est. Demand:			91 A		
Receptacle			6480 VA	100.00%	6480 VA						
Notes:											

Panel: H-F1											
Location:				Volts: 120/208 Wye				A.I.C. Rating:			
Supply From:				Phases: 3				Mains Type:			
Mounting:				Wires: 4				Mains Rating:			
Enclosure:								MCB Rating:			
Notes:											
CKT	Circuit Description	Trip	Wire Size	A	B	C	Wire Size	Trip	Circuit Description	CKT	
1	Lighting	20 A		360	360			20 A	Lighting	2	
3	Lighting	20 A			360	180		20 A	Lighting	4	
5	Lighting	20 A				360	45	20 A	Lighting Space 3352	6	
7	Lighting	20 A		360	360			20 A	Lighting	8	
9	Lighting	20 A			360	360		20 A	Lighting	10	
11	Lighting	20 A				360	360	20 A	Lighting	12	
13	Lighting	20 A		360	360			20 A	Lighting	14	
15	Lighting	20 A			360	360		20 A	Lighting	16	
17	Lighting	20 A				300	300	20 A	Lighting	18	
19	Receptacle ELEV. F 243	20 A		360						20	
21	Power ELEV. F 369	20 A			0	0				22	
23	Receptacle ELEV. LOBBY 377	20 A				720	0	20 A	Power ELEV. F 369	24	
25	Receptacle ELEV. LOBBY 377	20 A		720	0					26	
27	Receptacle ELEV. LOBBY 377	20 A			720	0		20 A	AHU-HF1	28	
29	Receptacle MEP 613	20 A				1000	0	20 A	Receptacle ELEV. F 243	30	
31	Receptacle MEP 613	20 A		1000	180					32	
33	Lighting	20 A			300	2506		20 A	120/208V-3PH, 120 V/208 V, Three Phase, 4 Wires, Wye	34	
35							3391			36	
37				4563				20 A		38	
39	Power	20 A			0					40	
41						0	120	20 A	Lighting ELEV. F 243	42	
43										44	
45										46	
47										48	
49										50	
51										52	
53										54	
				Total Load:	8981 VA	5487 VA	6926 VA				
				Total Amps:	77 A	46 A	60 A				
Legend:											
Load Classification				Connected Load	Demand Factor	Estimated...	Panel Totals				
HVAC				0 VA	0.00%	0 VA	Total Conn. Load: 21389 VA				
Lighting				3330 VA	125.00%	4163 VA	Total Est. Demand: 18101 VA				
Other				0 VA	0.00%	0 VA	Total Conn.: 59 A				
Power				0 VA	0.00%	0 VA	Total Est. Demand: 50 A				
Receptacle				18200 VA	77.47%	14100 VA					
Notes:											

Panel: H-F2													
Location:			Volts: 120/208 Wye				A.I.C. Rating:						
Supply From:			Phases: 3				Mains Type:						
Mounting:			Wires: 4				Mains Rating:						
Enclosure:							MCB Rating:						
Notes:													
CKT	Circuit Description	Trip	Wire Size	A		B		C		Wire Size	Trip	Circuit Description	CKT
1													2
3													4
5													6
7	Lighting	20 A		360	360						20 A	Lighting	8
9	Lighting	20 A				360	360				20 A	Lighting	10
11	Lighting	20 A						360	0		20 A	AHU-HH1	12
13	Lighting Space 2742	20 A		195	0	195	195				20 A	Lighting	14
17	Receptacle Space 3702	20 A						900	900		20 A	Receptacle Space 3702	18
19													20
21													22
23													24
25	Lighting	20 A		330									26
27													28
29	AHU-HG4	20 A						0	630		20 A	Lighting ELEV. LOBBY 409	30
31				0	720						20 A	Receptacle ELEV. LOBBY 419	32
33	Receptacle ELEV. LOBBY 419	20 A				720	720				20 A	Receptacle ELEV. LOBBY 419	34
35	Receptacle MAINTENANCE 245	20 A						540	180		20 A	Receptacle MAINTENANCE 245	36
37	Other MAINTENANCE 245	20 A		60	180						20 A	Lighting	38
39	Lighting	20 A				180	360				20 A	Lighting	40
41	Lighting	20 A						360	360		20 A	Lighting	42
43											20 A		44
45	AHU-HG3	20 A		0	330						20 A	Lighting	46
47						0	0				20 A	AHU-HG2	48
49									0		20 A		50
51					0						20 A	WH-C10	52
53	AHU-HG1	20 A				0	330				20 A	Lighting	54
				Total Load:	2506 VA	3391 VA	4563 VA						
				Total Amps:	21 A	29 A	39 A						
Legend:													
Load Classification				Connected Load	Demand Factor	Estimated...	Panel Totals						
HVAC				0 VA	0.00%	0 VA	Total Conn. Load:				10456 VA		
Lighting				2265 VA	125.00%	2831 VA	Total Est. Demand:				11005 VA		
Other				0 VA	0.00%	0 VA	Total Conn.:				29 A		
Receptacle				8280 VA	100.00%	8280 VA	Total Est. Demand:				31 A		
Notes:													

Panel: H-J1											
Location:			Volts: 120/208 Wye				A.I.C. Rating:				
Supply From:			Phases: 3				Mains Type:				
Mounting:			Wires: 4				Mains Rating:				
Enclosure:							MCB Rating:				
Notes:											
CKT	Circuit Description	Trip	Wire Size	A	B	C	Wire Size	Trip	Circuit Description	CKT	
1	Other BIKE STORAGE 138	20 A		0	360			20 A	Lighting	2	
3	Lighting	20 A			360	360		20 A	Lighting	4	
5	Lighting	20 A				360	360	20 A	Lighting	6	
7	Lighting	20 A		315	0			20 A	EUH-A	8	
9	Lighting	20 A			360	180		20 A	Lighting	10	
11	Lighting STAIR J 248	20 A				0	360	20 A	Lighting	12	
13	Lighting	20 A		180	360			20 A	Lighting	14	
15	AHU-HJ1	20 A			0	540		20 A	Receptacle DOG SPA 438	16	
17						0	0	20 A	Lighting	18	
19	CU-HJ2	20 A		2808	0			20 A	Lighting	20	
21					2808	0		20 A	AHU-HJ2	22	
23	Lighting ELEV. LOBBY 458	20 A				570	0	20 A		24	
25	EUH-A	20 A		0	285			20 A	Lighting	26	
27					0	0		20 A	Power ELEV. J 467	28	
29	Power ELEV. J 467	20 A				0	480	20 A	Lighting ELEV. J 249	30	
31				0	720			20 A	Receptacle STORAGE 439	32	
33	Receptacle STORAGE 439	20 A			720	720		20 A	Receptacle STORAGE 439	34	
35	Receptacle ELEV. J 249	20 A				360	180	20 A	Receptacle ELEV. J 249	36	
37				0						38	
39	Power	20 A			0					40	
41	Lighting	20 A			0					42	
43	Lighting	20 A		360	360			20 A	Lighting	44	
45	Lighting	20 A			360	195		20 A	Lighting	46	
47	Lighting	20 A				195	9061			48	
49					6336			20 A	H-J2	50	
51						2808	2988			52	
53	CU-HJ1	20 A				2808				54	
				Total Load:	12055 VA	12389 VA	15400 VA				
				Total Amps:	100 A	104 A	129 A				
Legend:											
Load Classification			Connected Load	Demand Factor	Estimated...	Panel Totals					
HVAC			28080 VA	100.00%	28080 VA	Total Conn. Load:			39842 VA		
Lighting			2520 VA	125.00%	3150 VA	Total Est. Demand:			40444 VA		
Other			0 VA	0.00%	0 VA	Total Conn.:			111 A		
Power			0 VA	0.00%	0 VA	Total Est. Demand:			112 A		
Receptacle			9360 VA	100.00%	9360 VA						
Notes:											

ELECTRICAL PANEL SCHEDULE							
PANEL: S1, A1, A2, A3, A4		POLES: 20		MOUNTING: FLUSH			
BUS: 100A.		MAINS: MLO		VOLTAGE: 120/208		PHASE/WIRE: 1 Ph 3 Wire	KAIC: 10K
CIRCUIT NUMBERS	DESCRIPTION	AMPS	POLES	QUANTITY			
1, 3	RANGE	40	2	1			
5, 7, 13, 15	WATER HEATER, DRYER	30	2	2			
9, 11	AHU	30	2	1			
17, 19	CONDENSING UNIT	20	2	1			
2	LIGHTS AND RECEPTACLES	20	1	1			
4-18 EVEN	ARC-FAULT LIGHTS AND RECEPTACLES	20	1	8			
20	SPARE	20	1	1			



LEGEND:	
①	PROVIDE 3/4"x4"x8" A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
②	TGMB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGB114416/TGMBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.
③	TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGB114412/TGMBKT OR EQUAL PROVIDE #1/0 TO TGMB IN MDF.
④	(2) 2" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLEING.
⑤	2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) CABLEING PATHWAY. REFER TO WEATHERHEAD DETAIL.

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ARCHITECTURE
LANDSCAPE
ARCHITECTURE
ENERGY SERVICES

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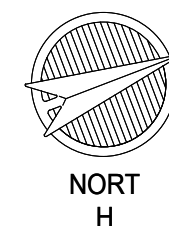
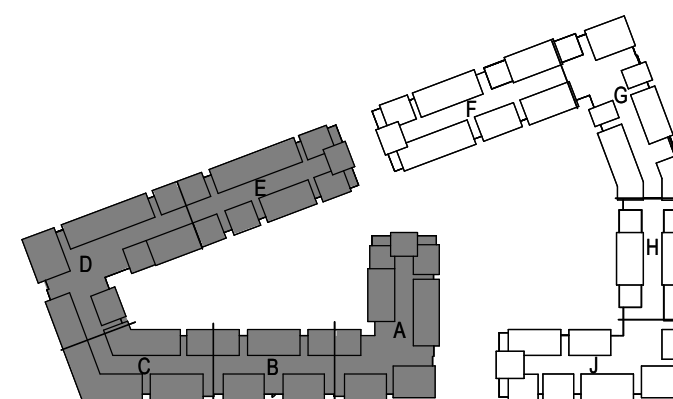
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 DRAWING RELEASE LOG
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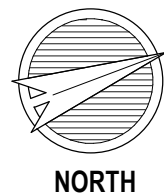
KEY TO SOLUTIONS

JOB NO. 705921 DATE 03.15.2023

4/11/2023
CITY COMMENTS
SHEET NAME
BUILDING 1 - OVERALL 1ST
FLOORPLAN
SHEET NO.

T1.01

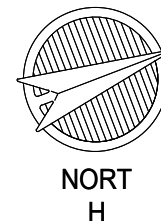
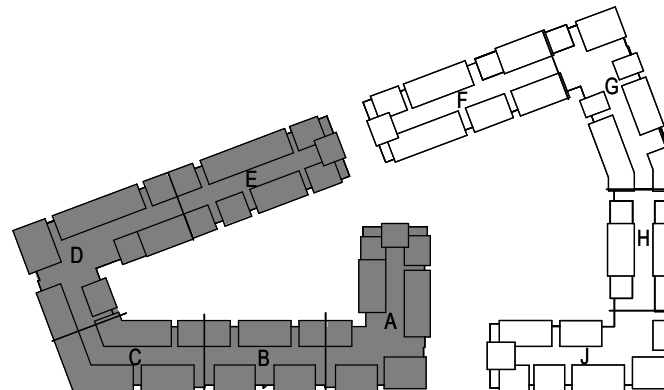




1

BUILDING 1 - OVERALL 2ND FLOORPLAN
TELECOM
1/16" = 1'-0"

- LEGEND:
- 1 PROVIDE 3/4"x4"x8' A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
 - 2 TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGB/14416TMGBKT OR EQUAL PROVIDE #30 MAIN ELECTRICAL SERVICE GROUND.
 - 3 TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGB/14412TMGBKT OR EQUAL PROVIDE #10 TO TMGB IN MDF.
 - 4 (2) 2" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLING.
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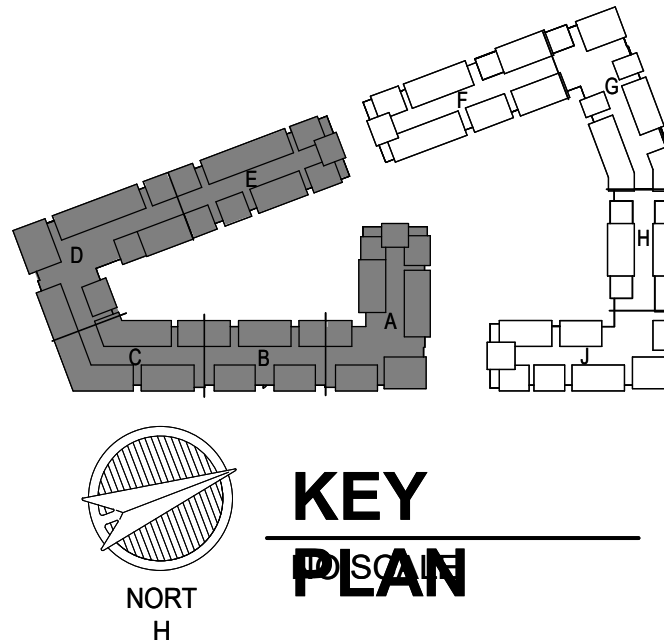
KEY PLAN

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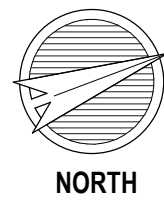


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1 BUILDING 1 - OVERALL 3RD FLOORPLAN

TELECOM
1/16" = 1'-0"



1 BUILDING 1 - OVERALL 4TH FLOORPLAN
TELECOM
1/16" = 1'-0"

- LEGEND:
- 1 PROVIDE 3/4"x4"x8' A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
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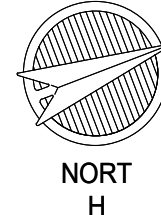
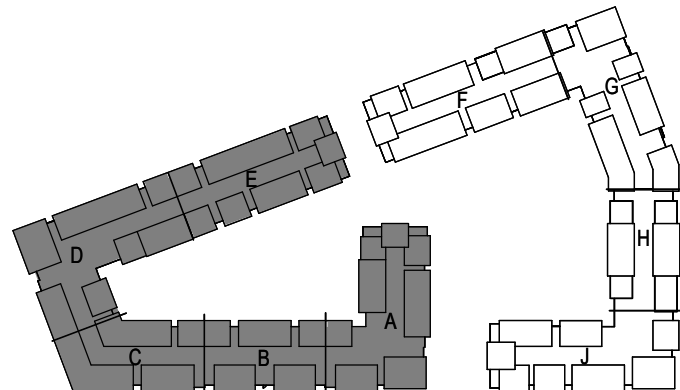
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TRILogy

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KEY PLAN

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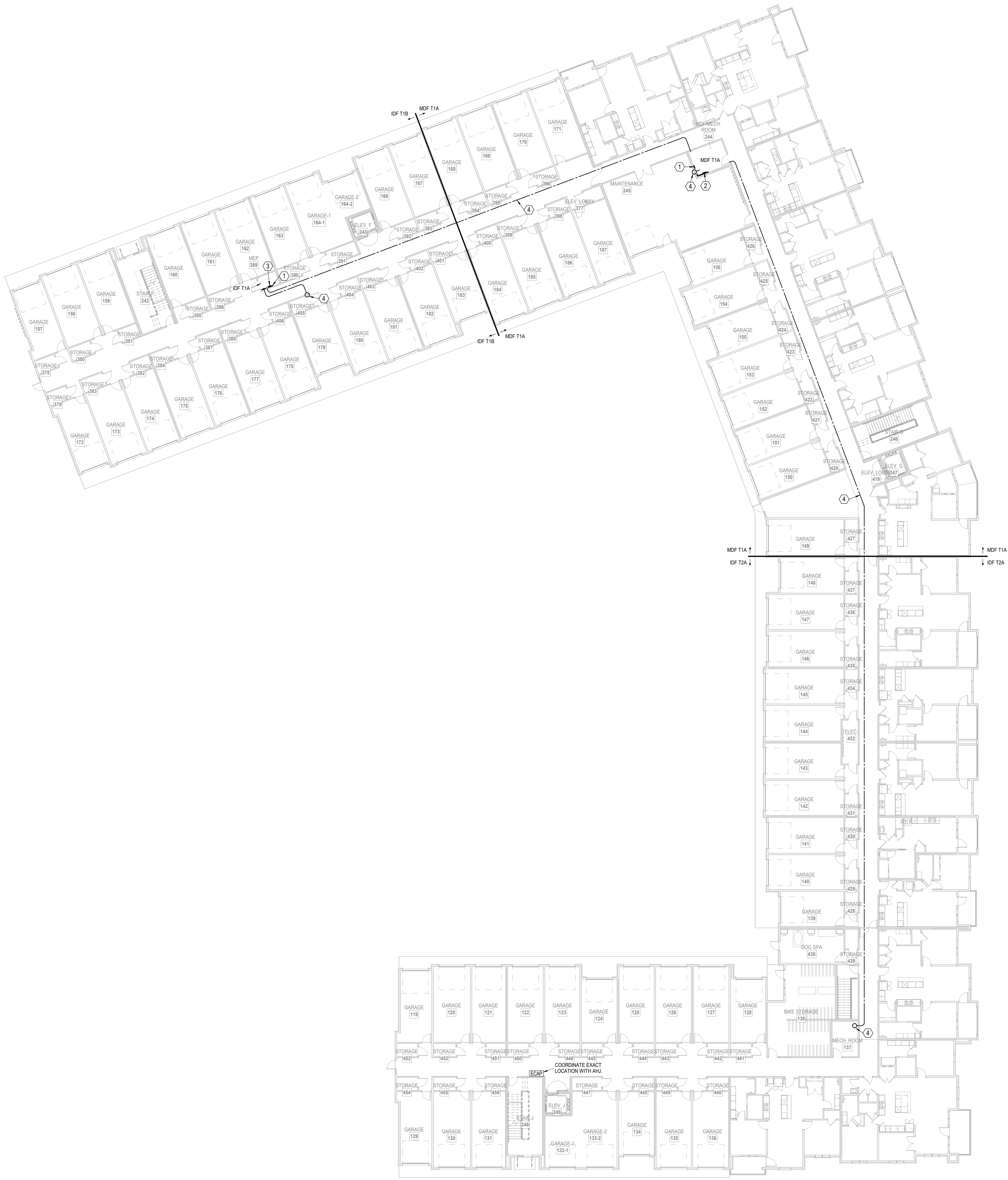
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8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3332
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO. 705921
DRAWN BY LSA CAD
4/11/2023

DATE 03.15.2023

CITY COMMENTS
SHEET NAME
BUILDING 1 - OVERALL 4TH FLOORPLAN
SHEET NO.

T1.04



- LEGEND:
- 1 PROVIDE 3/4"x4"x8" A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.
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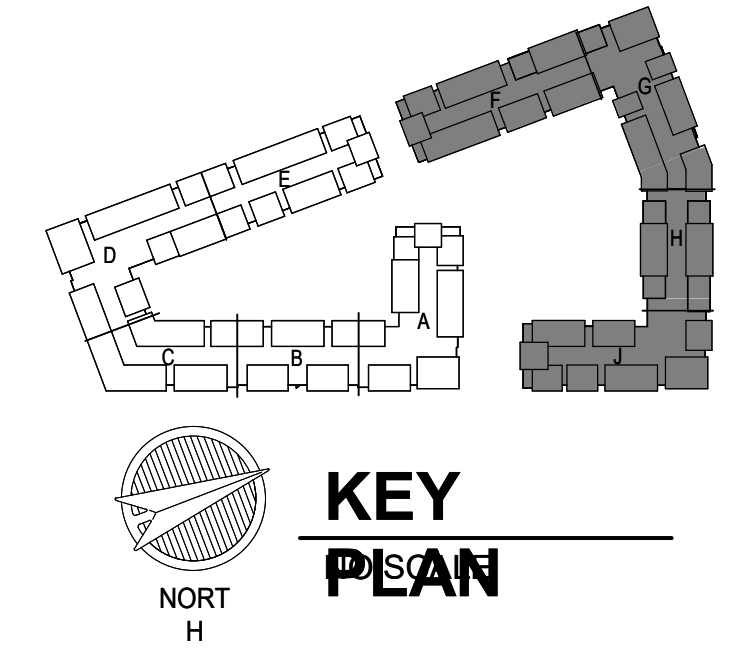
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REVISIONS



1 BUILDING 2 - OVERALL 1ST FLOORPLAN
TELECOM
1/16" = 1'-0"

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Email: lsapa@lsapa.com
LSA PROJECT NO. 2204061

JOB NO.
705921

DATE
03.15.2023

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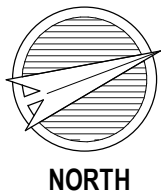
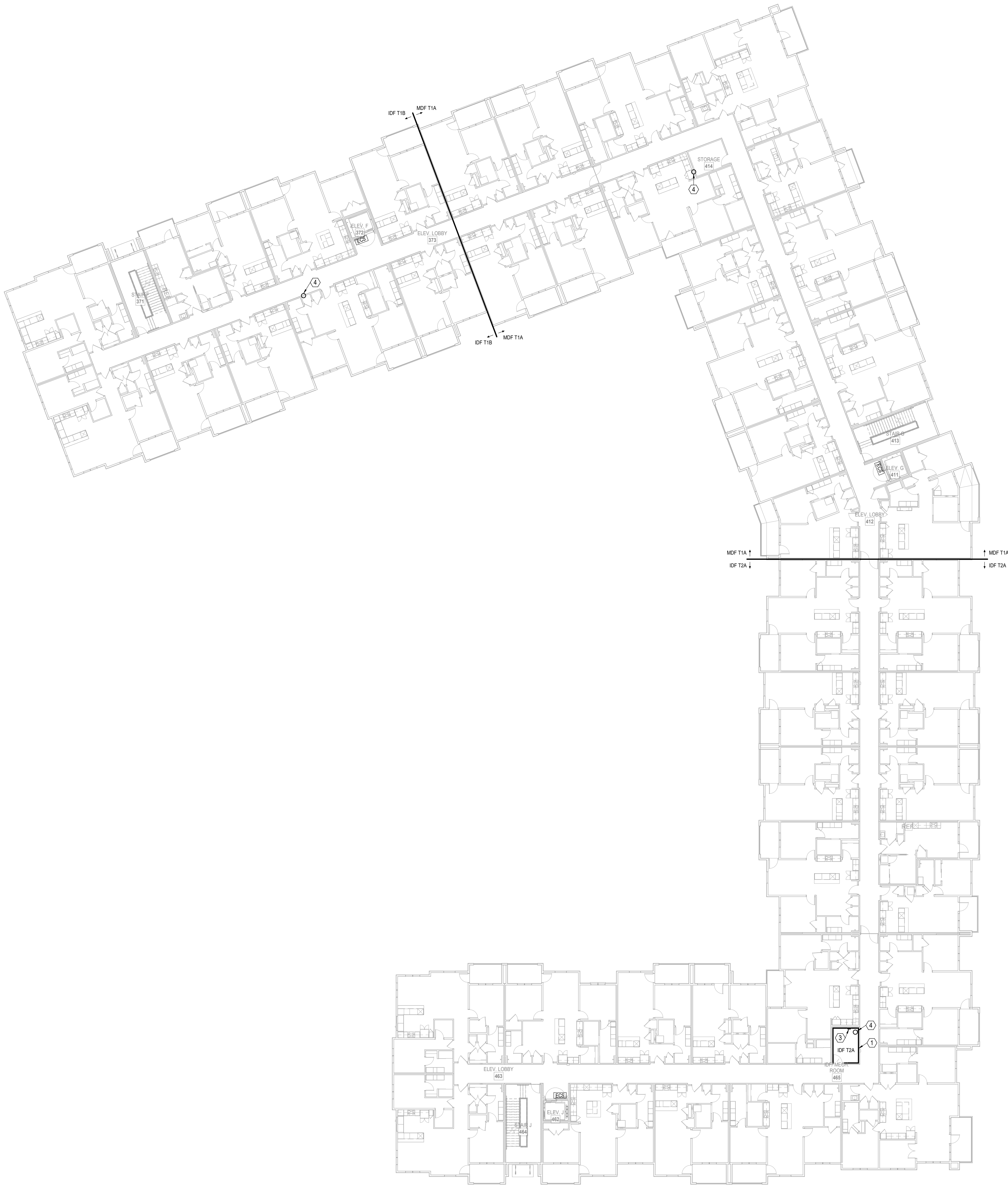
4/11/2023

SHEET NAME
CITY COMMENTS

BUILDING 2 - OVERALL 1ST
FLOORPLAN

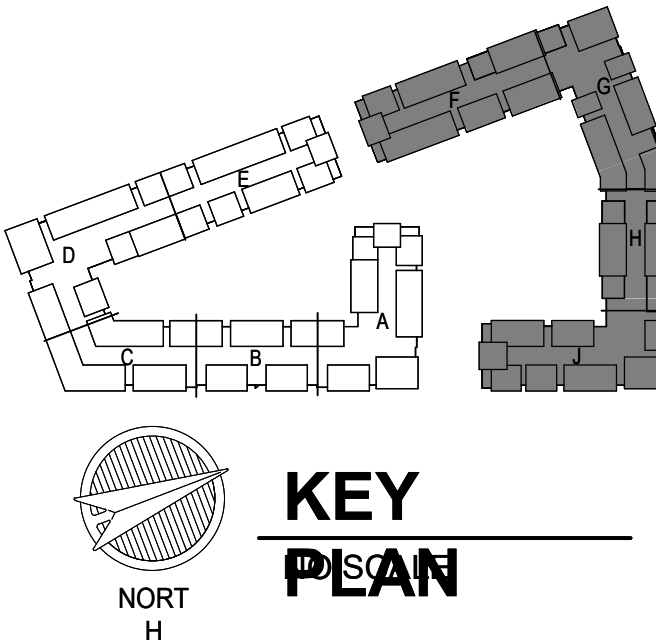
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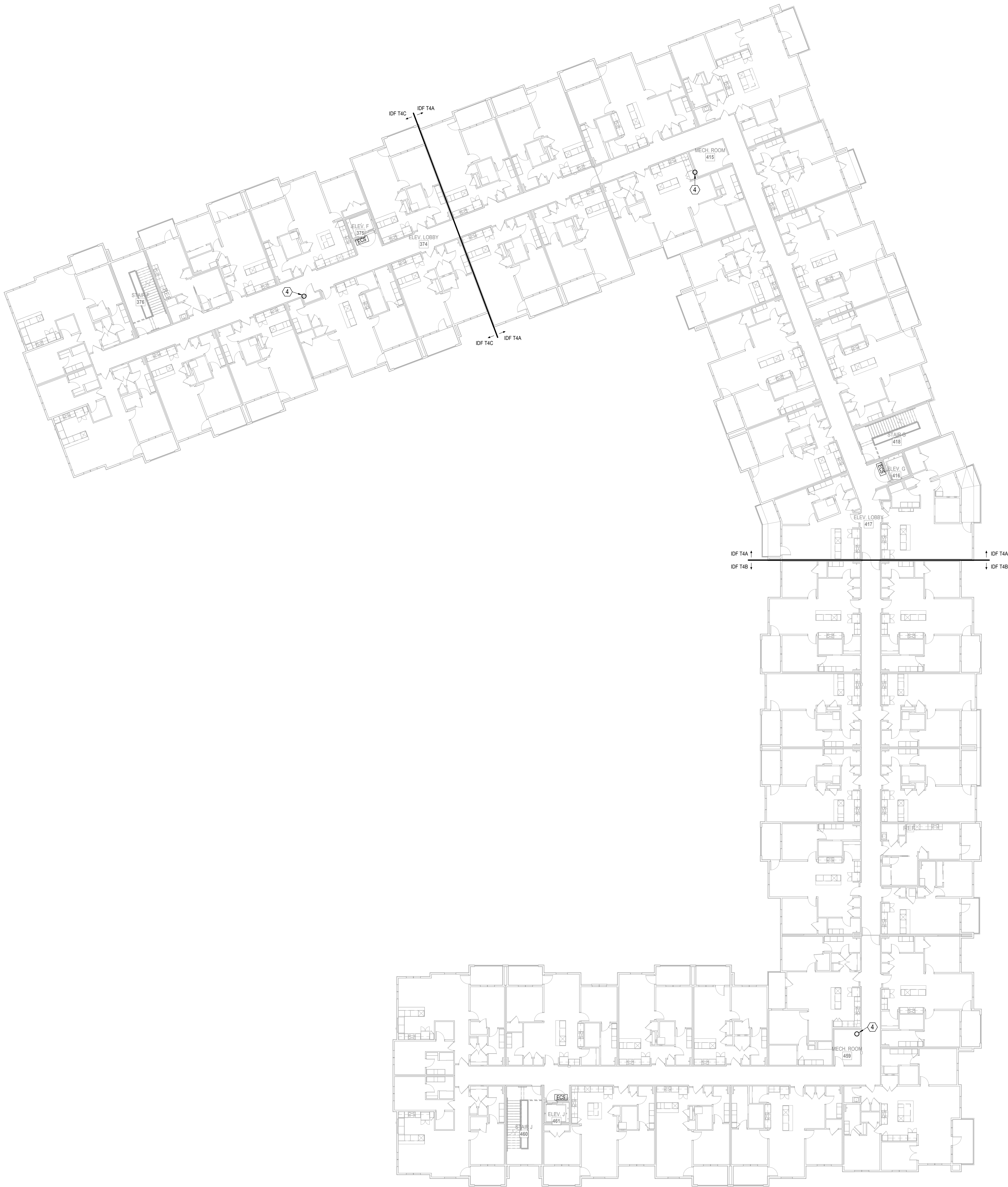
T1.05



1 BUILDING 2 - OVERALL 2ND FLOORPLAN
TELECOM
1/16" = 1'-0"

- LEGEND:
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- LEGEND:
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STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL
No. 10000
03/15/2023

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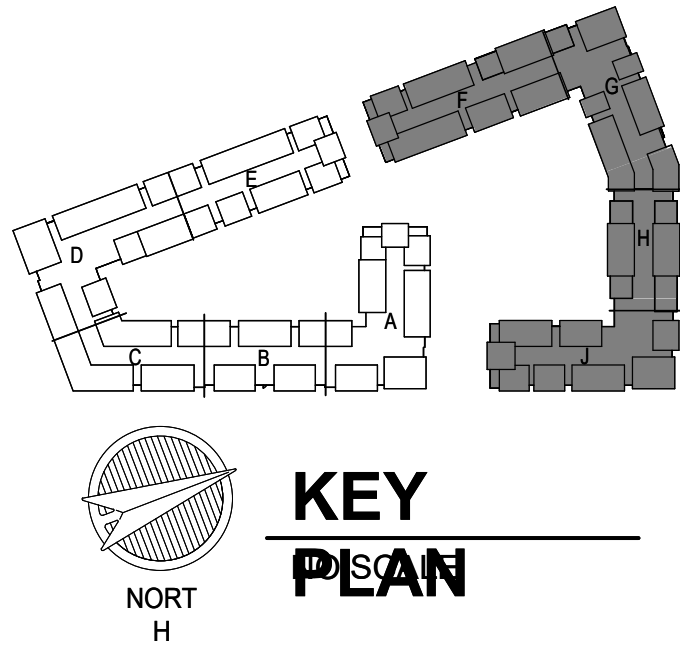
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TRILogy

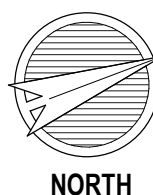
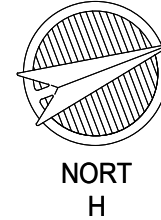
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KEY
PLAN



1

BUILDING 2 - OVERALL 3RD FLOORPLAN
TELECOM
1/16" = 1'-0"

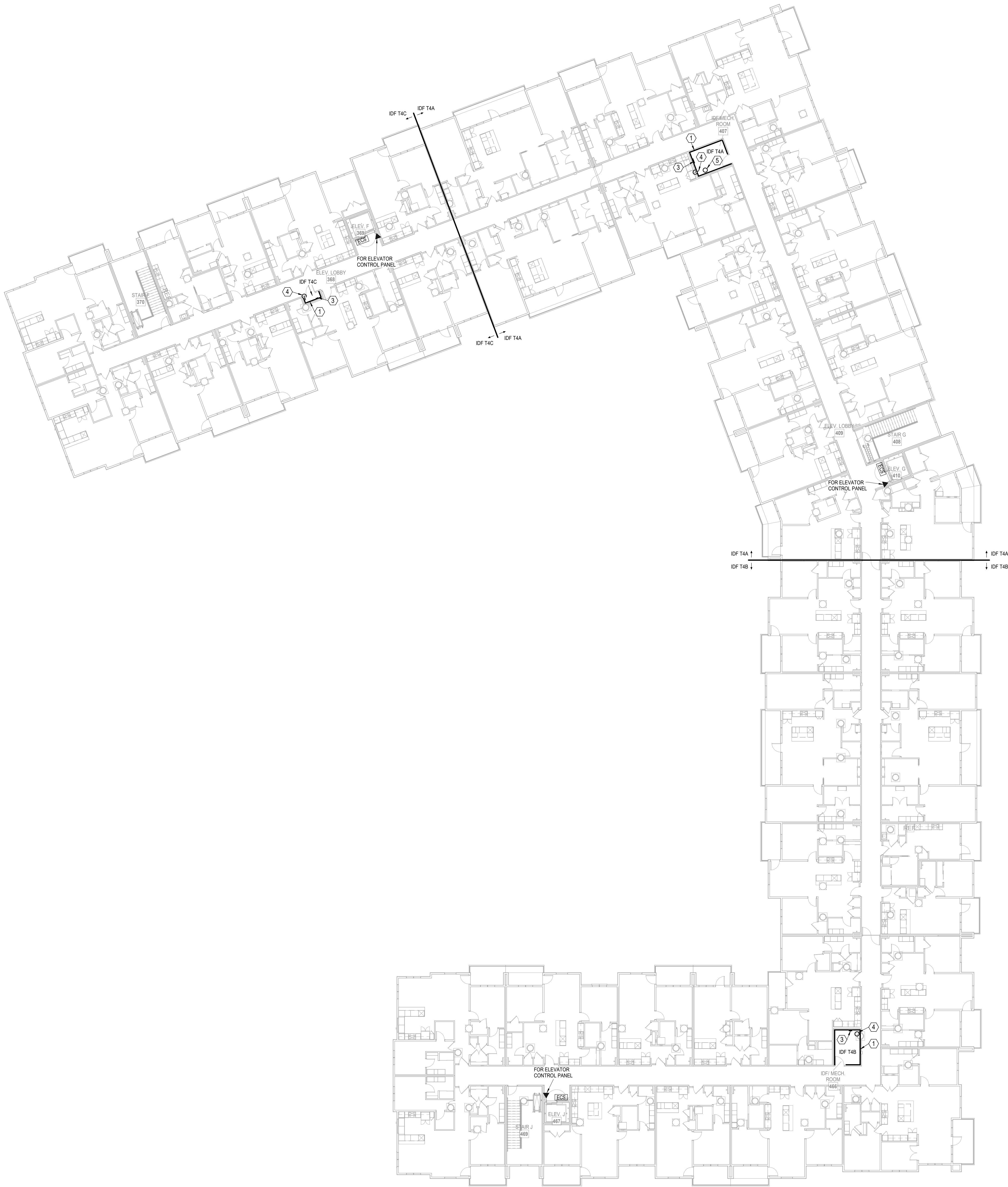
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LSA PROJECT NO. 2204061

JOB NO.
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4/11/2023
CITY COMMENTS
SHEET NAME
BUILDING 2 - OVERALL 3RD
FLOORPLAN
SHEET NO.

DATE
03.15.2023

T1.07

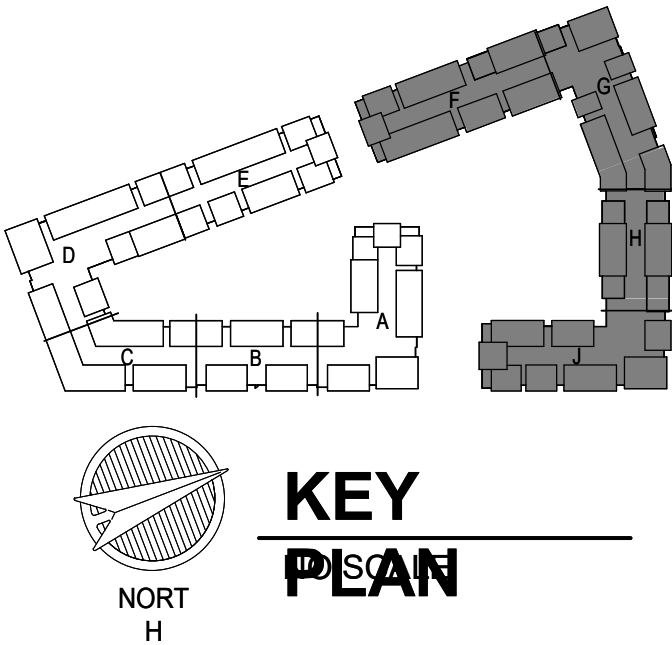


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1

BUILDING 2 - OVERALL 4TH FLOORPLAN
TELECOM
1/16" = 1'-0"



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SHEET NAME CITY COMMENTS

BUILDING 2 - OVERALL 4TH FLOORPLAN

SHEET NO.

T1.08

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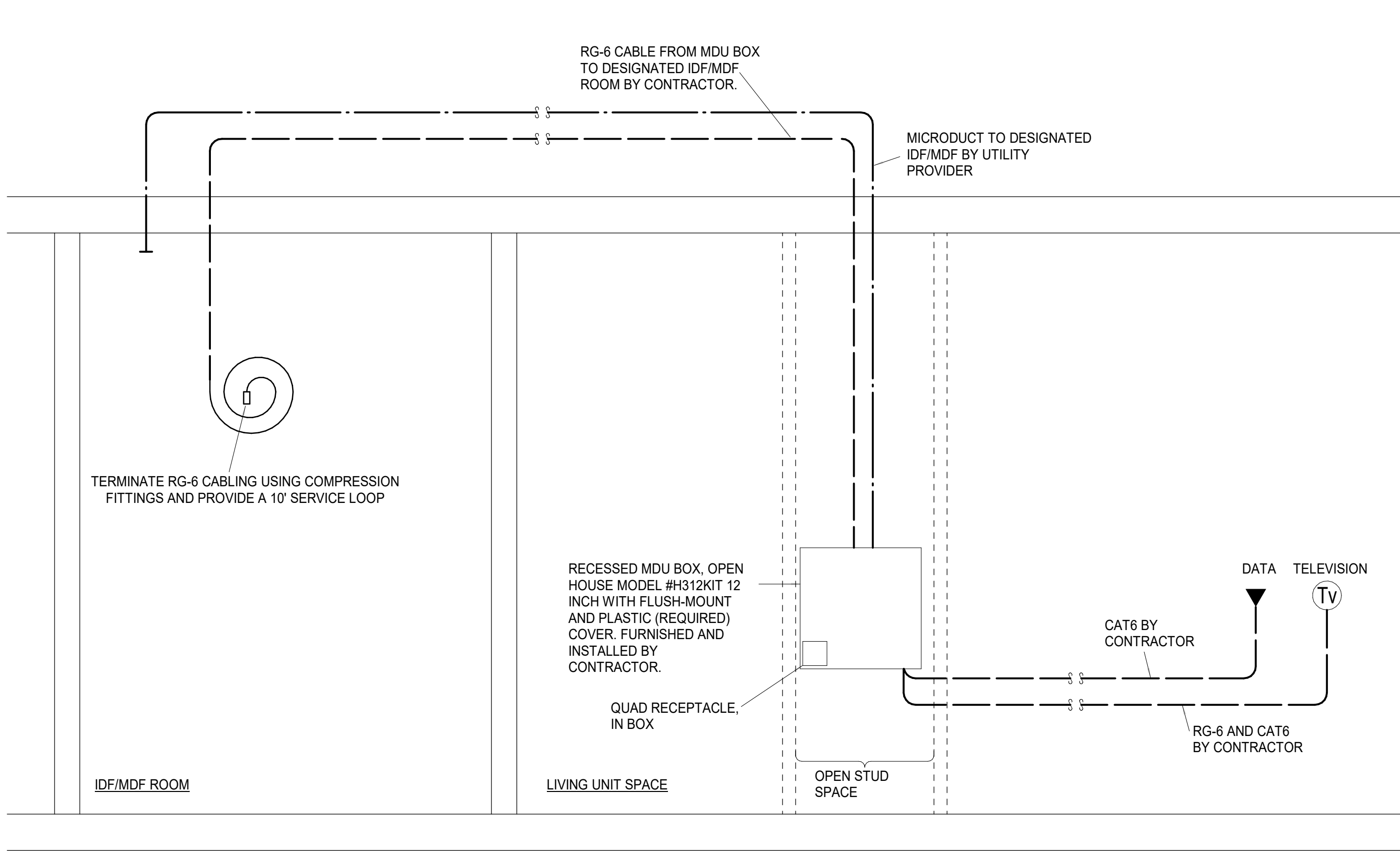
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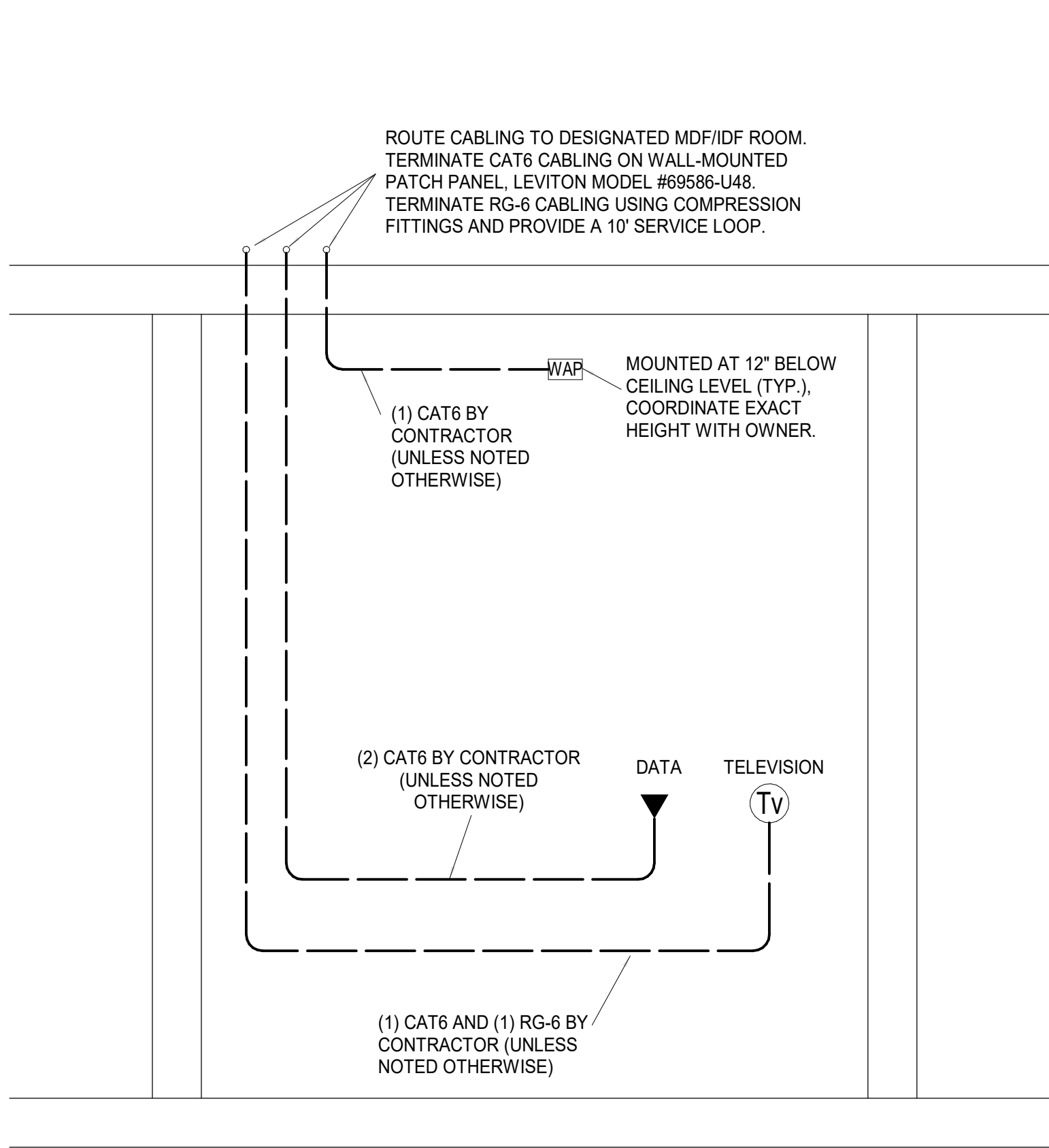
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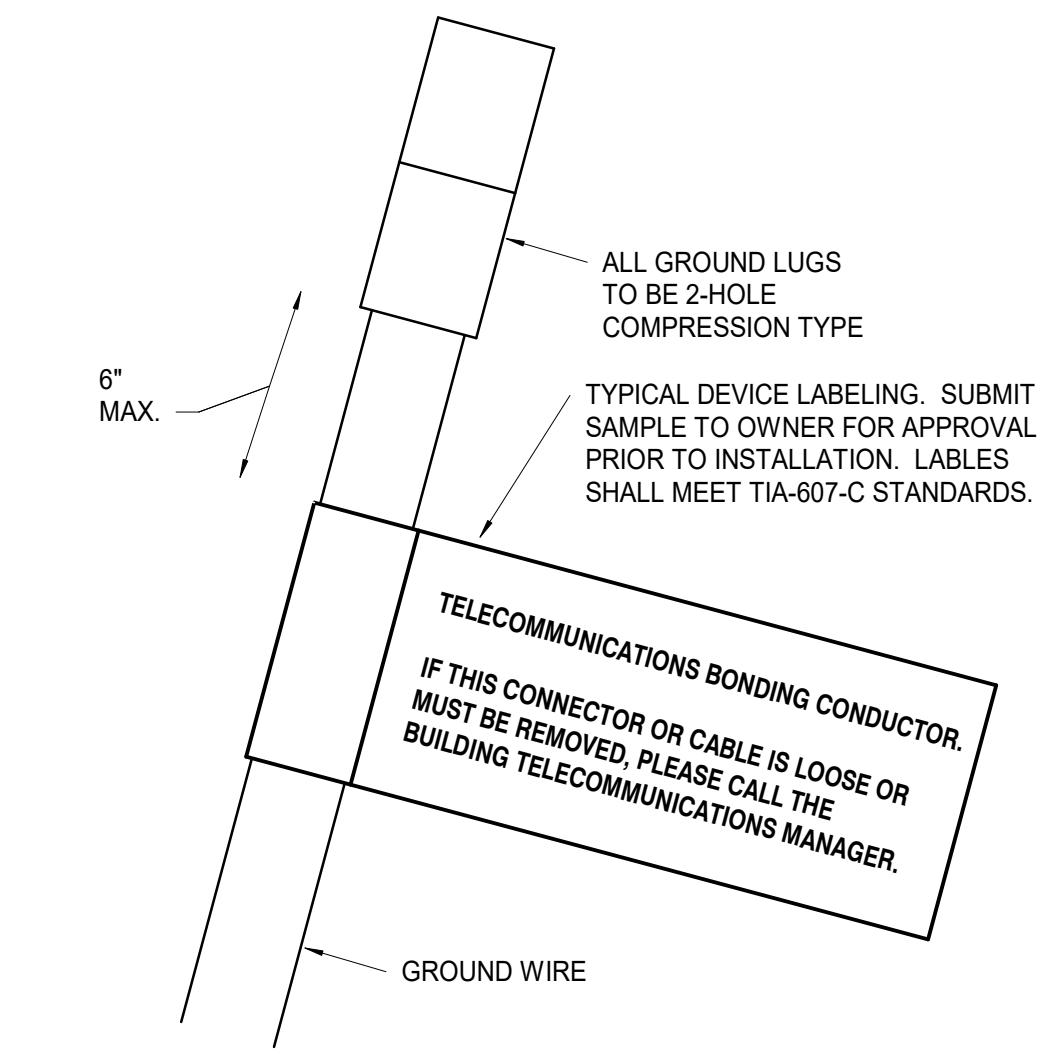
03/15/2023



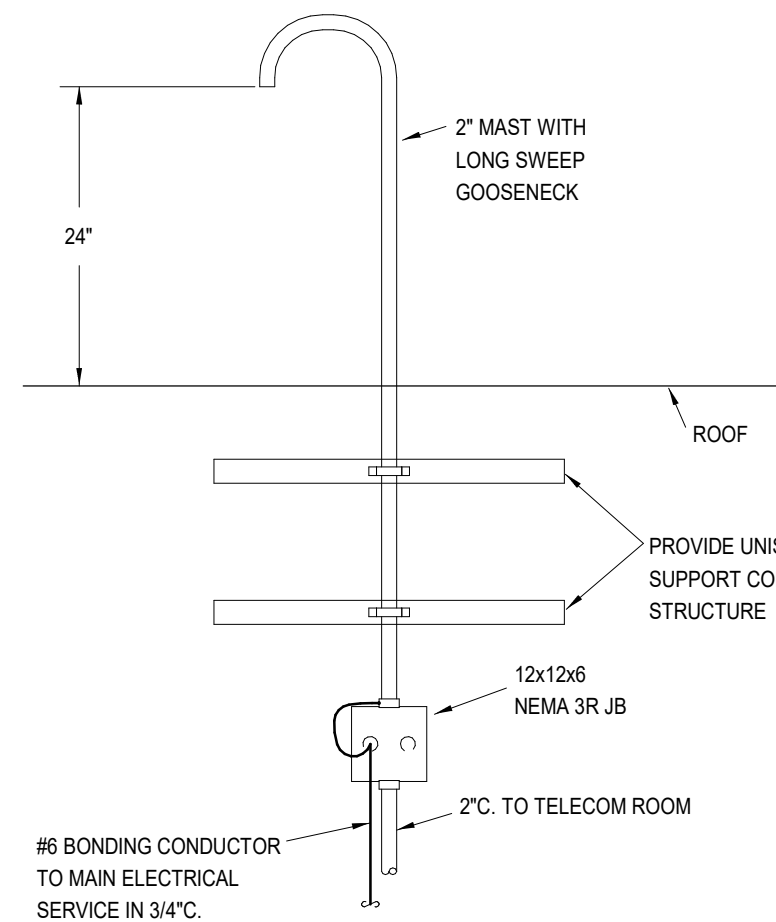
1 TYPICAL APARTMENT RISER DIAGRAM
NOT TO SCALE



2 TYPICAL COMMON/OFFICE AREA RISER DIAGRAM
NOT TO SCALE



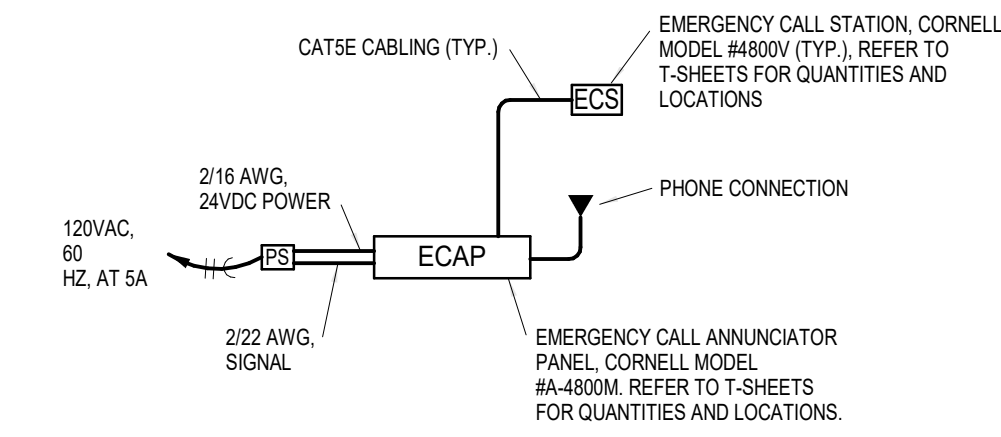
3 GROUND WIRE DETAIL
NOT TO SCALE



4 WEATHERHEAD DETAIL
NOT TO SCALE

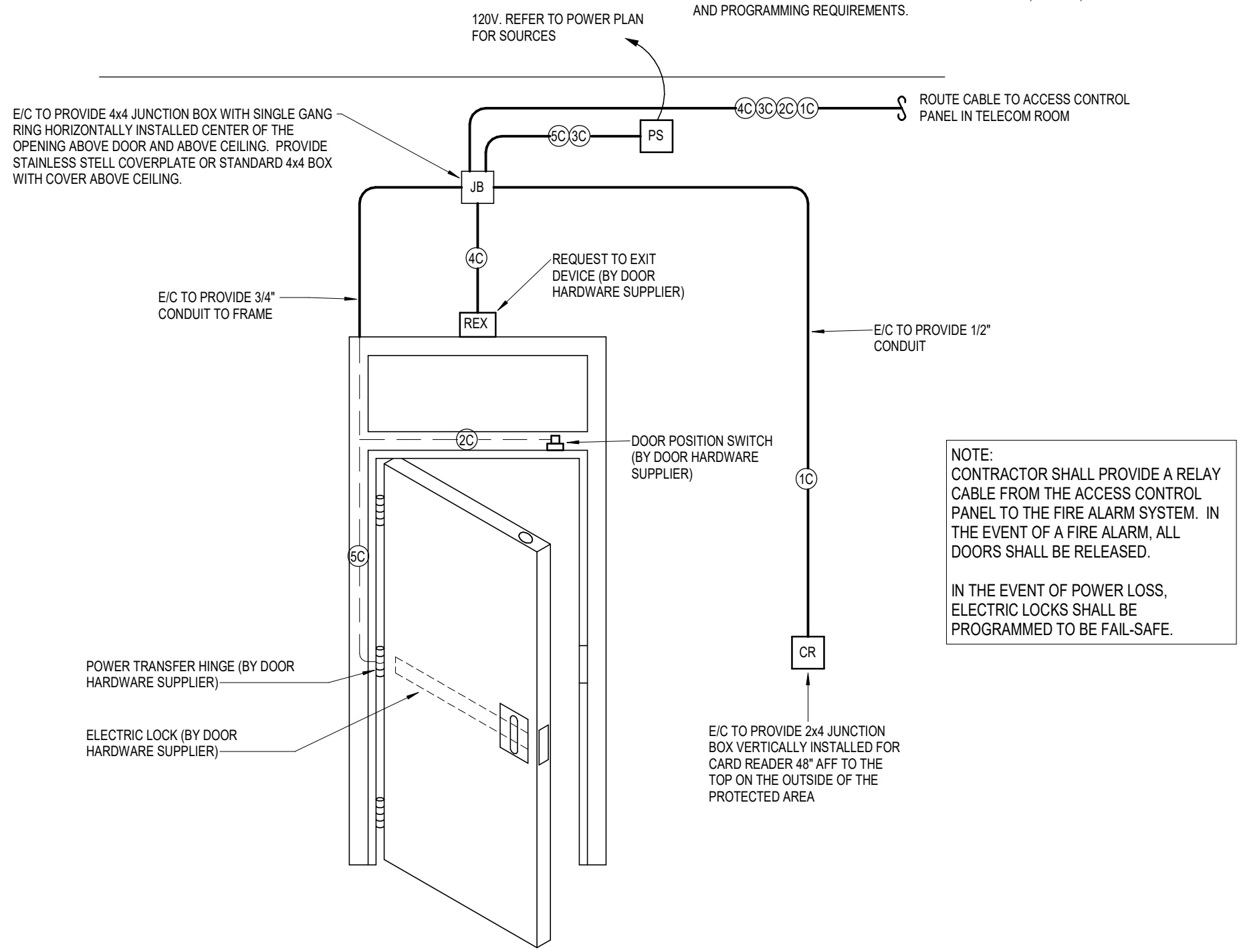
TWO-WAY COMMUNICATION SYSTEM SCHEDULE				
MARK	MANUFACTURER	MODEL NUMBER	DESCRIPTION	REMARKS
ECAP	CORNELL	A-4800M	EMERGENCY CALL ANNUNCIATOR PANEL	1, 4
ECS	CORNELL	4800V	EMERGENCY CALL STATION	2, 4
PS	CORNELL	B-5246A	POWER SUPPLY	3

REMARKS:
1 - PROVIDE POWER SUPPLIES AS REQUIRED. PROVIDE WITH ST1 MODEL #ST1-7521 NEMA 4X CLEAR ENCLOSURE WITH THUMB LOCK.
2 - PROVIDE WITH DOUBLE GANG BACKBOX AND ST1 MODEL #ST1-7511E CLEAR ENCLOSURE WITH THUMB LOCK.
3 - VERIFY SIZE OF POWER SUPPLY WITH LAYOUT OF THE SYSTEM.
4 - VERIFY LOCATION WITH AHJ.

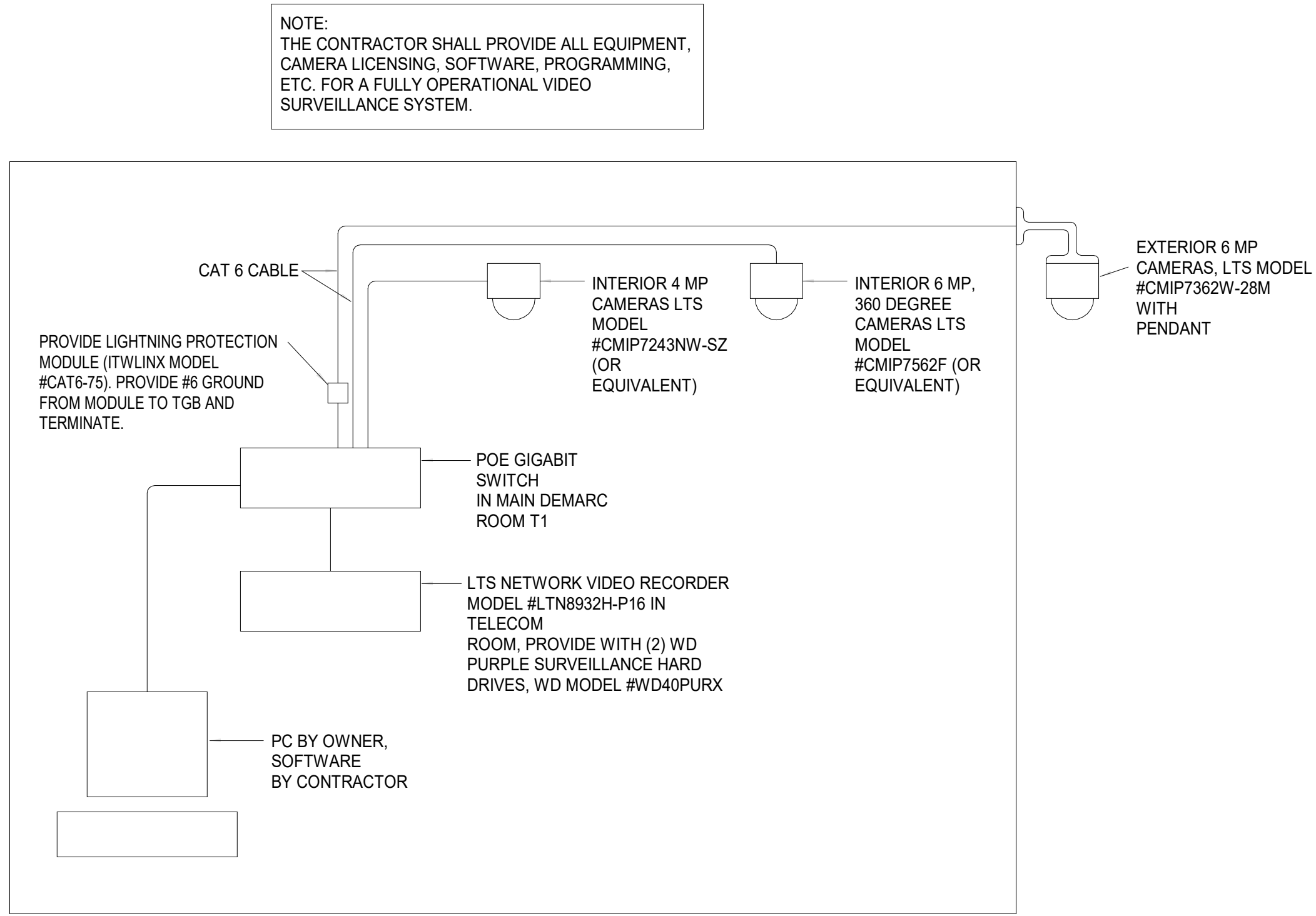


5 TWO-WAY COMMUNICATION DIAGRAM
NOT TO SCALE

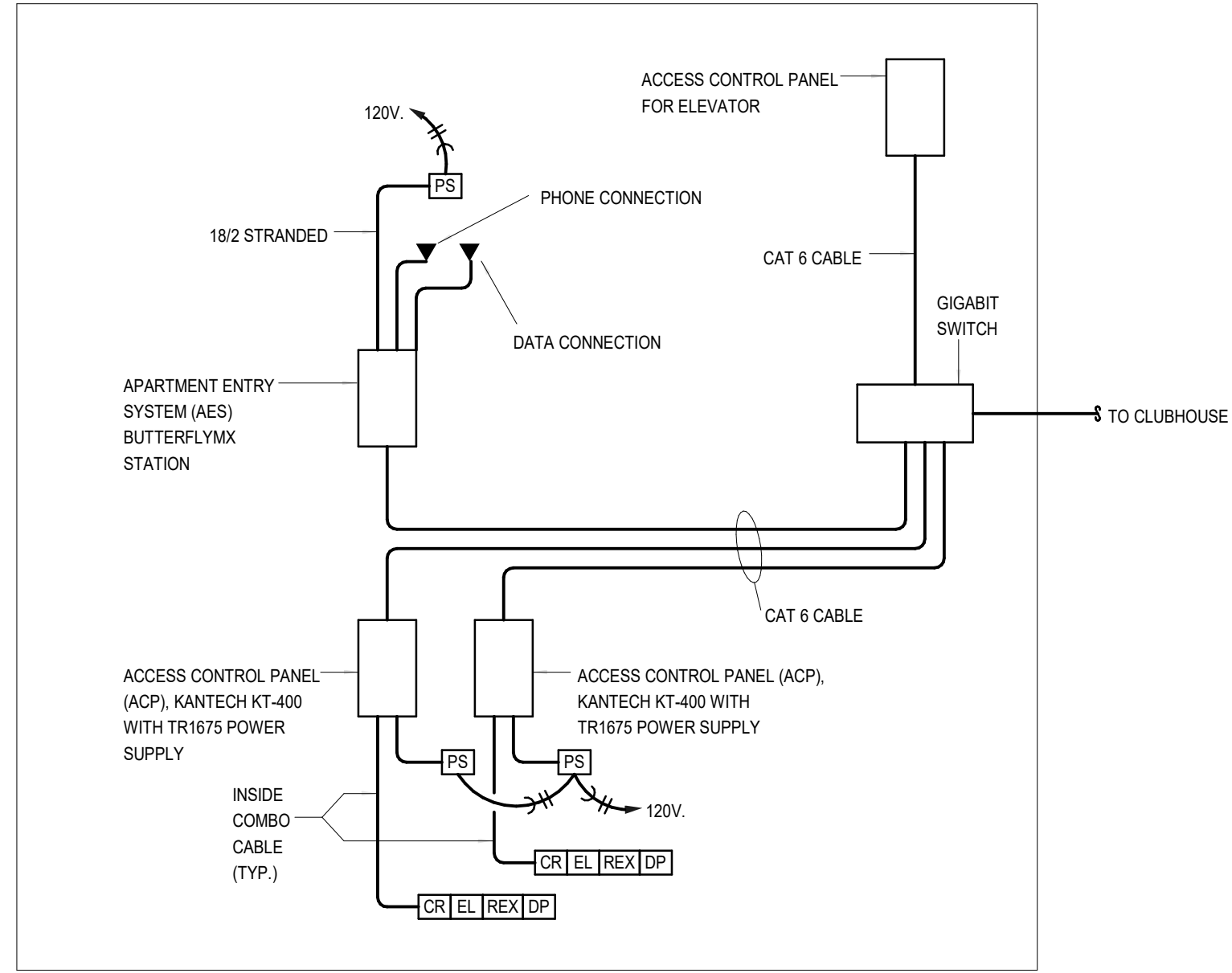
CABLE LEGEND:		ACCESS CONTROL DEVICE LEGEND:	
10	PROXIMITY CARD READER (ORANGE)	ACP	ACCESS CONTROL PANEL
25	18GA 8 COND. TWISTED OVERALL SHIELD, RISER RATED CABLE	CR	HID CARD READER
25	MAGNETIC SWITCH (WHITE)	REX	REQUEST TO EXIT*
10	ELECTRIC LOCK (GRAY)	DP	DOOR POSITION SWITCH*
40	18GA 4 COND. TWISTED OVERALL SHIELD, RISER RATED CABLE	EL	ELECTRIC LOCK (24V, DC)*
40	REQUEST TO EXIT (BLUE)	PS	POWER SUPPLY (24V, DC)*
60	18GA 4 COND. TWISTED OVERALL SHIELD, RISER RATED CABLE	ADA	ADA PUSHBUTTON*
60	ELECTRIC LOCK FROM PS TO PUSHBAR	DADA	DUAL ADA PUSHBUTTON*
60	18GA 4 COND. TWISTED OVERALL SHIELD, RISER RATED CABLE	ADM	ADA MOTORIZED OPERATOR*
ACCESS CONTROL CABLE SCHEDULE:		VMS	VIDEO INTERCOM MASTER STATION
10/20/30/40	BELDEN MODEL #538AFS	VC	VIDEO INTERCOM
50	BELDEN MODEL #5302FE	* - INDICATES PROVIDED BY DOOR HARDWARE SUPPLIER. REFER TO DOOR HARDWARE SPECIFICATIONS FOR FURTHER WIRING, POWER, AND PROGRAMMING REQUIREMENTS.	



6 TYPICAL ACCESS DOOR DETAIL
NOT TO SCALE



7 TYPICAL SECURITY CAMERA DETAIL
NOT TO SCALE



8 TYPICAL ACCESS CONTROL PANEL DETAIL
NOT TO SCALE

ACCESS CONTROL CABLE SCHEDULE				
MARK	MANUFACTURER	MODEL/PART NUMBER	DESCRIPTION	REMARKS
10/20/30/40	BELDEN	538AFS	INSIDE ACCESS CONTROL CABLE (COMBO CABLE)	1
50	BELDEN	5302UE	ELECTRIC LOCK CABLE 18 GA 4 COND STRANDED	1, 2
60	CSC	759218	OUTSIDE ACCESS CONTROL CABLE (COMBO CABLE)	1

REMARKS:
1 - PROVIDED AND INSTALLED BY EIC.
2 - EIC TO ROUTE CABLE FROM DEVICE AND LEAVE A 8'-0" SERVICE LOOP AT THE BURGLAR ALARM PANEL. PROVIDE A 24" SERVICE LOOP AT DEVICE.
3 - PROVIDED AS A PART OF THE DOOR HARDWARE PACKAGE.

SECURITY SCHEDULE				
MARK	MANUFACTURER	MODEL NUMBER	DESCRIPTION	REMARKS
CR	HID	RP40	CARD READER	
ACP	KANTECH	KT400	ACCESS CONTROL PANEL	3
AES	KANTECH	KTES	APARTMENT ENTRY SYSTEM	
	HID		FOBs	1

REMARKS:
1 - VERIFY QUANTITY WITH OWNER.
2 - DOUBLE POLE, DOUBLE THROW FOR ACCESS CONTROL AND BURGLAR ALARM.
3 - PROVIDE QUANTITIES SHOWN ON PLANS.



JOB NO. 705921
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4/11/2023
CITY COMMENTS
SHEET NAME TELECOM DETAILS
SHEET NO.

T2.01