TELCOM SYMBOL LIST

	FIRE ALARM SYMBOLS		ABBREVIATIONS
F	FIRE ALARM MANUAL PULL STATION, +48" A.F.F.	A.F.F.	7 10 01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
M	MAGNETIC DOOR HOLDER	APP.	APPROXIMATE
	SMOKE DETECTOR, DUCT, IONIZATION TYPE W/SAMPLING TUBE	С	CONDUIT
₽-	SMOKE DETECTOR, DUCT, PHOTO TYPE W/SAMPLING TUBE	C.O.	CONDUIT ONLY
0	SMOKE DETECTOR, IONIZATION TYPE	CATV	CABLE TELEVISION
©	SMOKE DETECTOR, PHOTO TYPE	CCTV	CLOSED CIRCUIT TELEVISION
Θ	HEAT DETECTOR, RATE-OF-RISE OR FIXED TEMP.	CLG	CEILING MOUNTED
\oslash	FIRE MAIN FLOW DETECTION SWITCH	(E)	EXISTING
	FIRE MAIN TAMPER DETECTION SWITCH	FACP	FIRE ALARM CONTROL PANEL
	FIRE ALARM BELL, +80" A.F.F., U.O.N.	FP	FACEPLATE
E√ - - E√	FIRE ALARM HORN, +80" A.F.F.	FS	FLOW SWITCH (SEE FIRE ALARM SYMBOLS)
	FIRE ALARM HORN/STROBE, +80" TO 96" A.F.F.	FSD	FIRE/SMOKE DAMPER
F OR F	FIRE ALARM STROBE, +80" TO 96" A.F.F.	GND	GROUND
IM	FIRE ALARM INPUT MODULE	ΙR	INFRARED
DM	FIRE ALARM OUTPUT MODULE	JB	JUNCTION BOX
FACP	FIRE ALARM CONTROL PANEL	N.I.C.	NOT IN CONTRACT
FARA	FIRE ALARM REMOTE ANNUNCIATOR	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
S	STAND ALONE - RESIDENTIAL SMOKE DETECTOR 120V W/ BATTERY	OFOI	OWNER FURNISHED, OWNER INSTALLED
<u>@</u>	CARBON MONOXIDE DETECTOR RESIDENTIAL 120V W/ BATTERY	P.A.	PUBLIC ADDRESS
		P.E.T.	PROTECTIVE ENTRANCE TERMINAL
		SD	SMOKE DAMPER
		TS	TAMPER SWITCH (SEE FIRE ALARM SYMBOLS)
$\langle 1 \rangle$	NOTATIONS	TTB	TELEPHONE TERMINAL BOARD
<u>'</u>	DRAWING NOTE	TYP.	TYPICAL
2		U.G.	UNDERGROUND
E3	DETAIL REFERENCE: TOP=DETAIL NO., BOTTOM=SHEET NO.	U.O.N.	UNLESS OTHERWISE NOTED
$\frac{\overline{EF}}{2}$		W.G.	WIRE GUARD
\2/	MECHANICAL EQUIPMENT MARK NO. (SEE EQUIPMENT SCHEDULE)	W.P.	WEATHERPROOF
<aaa></aaa>		X.P.	EXPLOSION PROOF
· · · · ·	EQUIPMENT NO. (SEE EQUIPMENT SCHEDULE)		

NOTE: SOME OF THE SYMBOLS AND ABBREVIATIONS ON THIS LIST MAY NOT APPLY TO THIS PROJECT.

ROUGH-IN MATRIX

	SYSTEM	DEVICE	BACK BOX	CONDUIT COUNT AND SIZE	NOTES
1	ACCESS CONTROL	APARTMENT ENTRY	PER SYSTEM DESIGNER	(2) 1" CONDUITS	48" MAX A.F.F TO HIGHEST OPERABLE PART
2	ACCESS CONTROL	CARD READER	SINGLE GANG	SEE DETAIL 1, T1.22	48" MAX A.F.F TO HIGHEST OPERABLE PART
3	CCTV	CAMERA	SINGLE GANG	(1) 3/4" CONDUIT	CEILING MOUNTED U.O.N.
4	AREA OF REFUGE	CALL BOX	PER SYSTEM DESIGNER	(1) 1" CONDUIT	COORDINATE HEIGHT WITH SYSTEM DESIGNER
5	DATA	WiFi	SINGLE GANG	(1) 3/4" CONDUIT	CEILING MOUNTED U.O.N.
6	TELEPHONE/DATA	RESIDENT OUTLET	SINGLE GANG MUDRING	3/4" FLEX TO SMART PANEL	18" A.F.F. U.O.N.
7>	AUDIO/VISUAL	AUDIO CONTROL	SINGLE GANG	(1) 3/4" CONDUIT	COORDINATE HEIGHT WITH SYSTEM DESIGNER
8	DATA	OFFICE OUTLET	SINGLE GANG	(1) 3/4" CONDUIT	18" A.F.F. U.O.N.

GENERAL NOTES:

- A. DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE & NATIONAL CODES.
- C. CONTRACTOR SHALL REVIEW THE DIVISION 27&28 SPECIFICATIONS AND THE ENTIRE DRAWING PACKAGE FOR THIS PROJECT PRIOR TO THE START OF ANY WORK.
- D. THE INSTALLING CONTRACTOR SHALL CONSULT WITH ALL OTHER TRADES PRIOR TO ROUGH-IN TO COORDINATE ANY ADDITIONAL BLOCKING, ACCESS, OR POWER REQUIRED FOR DEVICES TO BE INSTALLED.
- E. THE CONTRACTOR SHALL IMMEDIATELY ADVISE THE ARCHITECT OF ANY DISCREPANCIES DISCOVERED WITHIN THE DOCUMENTS.
- F. ALL PRODUCT SUBMITTALS AND SUBSTITUTIONS SHALL BE PROVIDED TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO PLACING ANY ORDERS.
- G. THE INSTALLING CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES.
- H. REFER TO ENLARGED UNIT PLANS (T4 SERIES SHEETS) FOR TYPICAL SMART PANEL, TELCOM DEVICES, AND FIRE ALARM LAYOUT.
- I. ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH PGE ELECTRICAL SERVICE REQUIREMENTS.

DESIGN INTENT:

- A. TELEPHONE AND DATA DESIGN AS SHOWN IS ROUGH-IN ONLY, PROVIDING BACK BOX AND CONDUIT TO ACCESSIBLE CEILING SPACE. FINAL DESIGN OF CABLING AND EQUIPMENT WILL BE COMPLETED BY OWNER SELECTED VENDOR.
- B. ACCESS CONTROL AS SHOWN IS ROUGH-IN ONLY, PROVIDING BACK BOX AND CONDUIT TO ACCESSIBLE CEILING SPACE. FINAL DESIGN OF CABLING AND EQUIPMENT WILL BE COMPLETED BY OWNER SELECTED VENDOR.
- C. SECURITY SYSTEM DESIGN AS SHOWN IS ROUGH-IN ONLY, PROVIDING BACK BOX AND CONDUIT TO ACCESSIBLE CEILING SPACE. FINAL DESIGN OF CABLING AND EQUIPMENT WILL BE COMPLETED BY OWNER SELECTED VENDOR.

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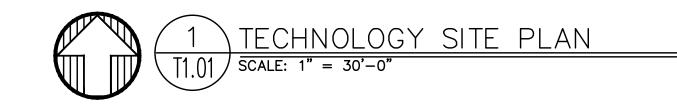
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GENERAL POWER NOTES:

- A. ALL PLANS ARE CONSIDERED DIAGRAMMATICAL. THEREFORE ALL EQUIPMENT SIZES AND DEVICE LOCATIONS ARE APPROXIMATE AND SUBJECT TO FIELD CONDITIONS AND PRODUCT APPROVAL.
- B. COORDINATE WITH LOCAL UTILITY PROVIDER FOR EXACT SERVICE CONDUIT SIZES AND ROUTING.



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CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES BEFORE TRENCHING. UTILITY REQUIREMENTS

1. CUSTOMER TO PROVIDE ALL TRENCHING AND BACKFILLING. TRENCH TO BE

2. ALL UTILITY CONDUCTORS TO BE INSTALLED IN GRAY SCHEDULE 40, ELECTRICAL GRADE, PVC CONDUIT WITH NYLON PULL STRINGS (MIN 500 LBS. TEST). ALL BENDS MUST BE FACTORY MADE. IF MORE THAN 270 DEGREES OF BENDS OR IF RUN IS LONGER THAN 150 FEET, BENDS MUST BE RIGID STEEL.

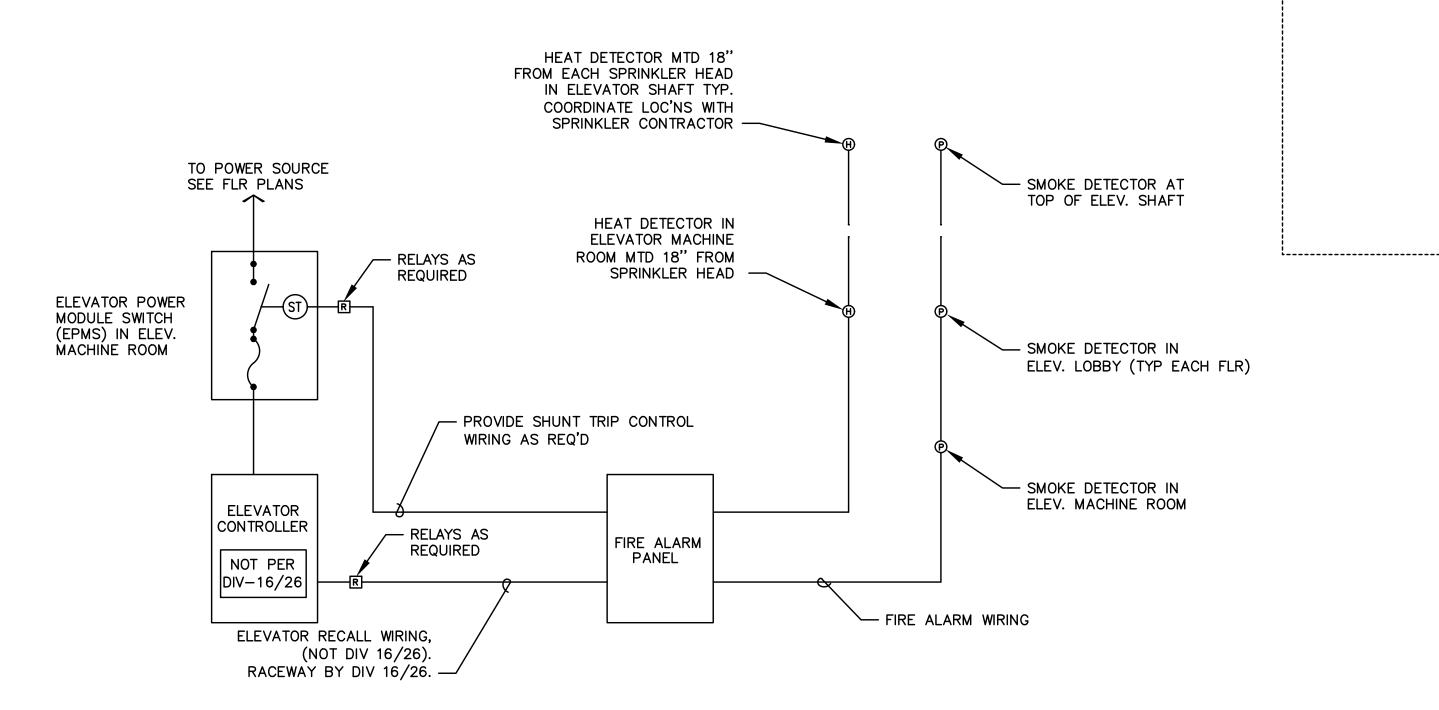
36 INCHES DEEP AND 30 INCHES WIDE, MEASURED FROM FINAL GRADE.

3. CONSULT WITH UTILITY REPRESENTATIVES 2 WEEKS BEFORE STARTING MAIN POWER TRENCHING FOR A PRE-CONSTRUCTION CONFERENCE. INCLUDED IN THIS CONFERENCE WILL BE EXCAVATOR, CPU, TELCO, CATV, AND GAS.

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<u>NOTES</u>

- 1. CONNECT HEAT DETECTORS IN MACHINE RM AND ELEVATOR SHAFT SUCH THAT AN ALARM CONDITION WILL ACTIVATE SHUNT TRIP DEVICE IN 'EMPS'.
- CONNECT SMOKE DETECTORS IN MACHINE ROOM, ELEVATOR LOBBYS, AND ELEVATOR SHAFT SUCH THAT AN ALARM CONDITION WILL ACTIVATE ELEVATOR RECALL SYSTEM. COORDINATE WITH ELEVATOR SUPPLIER.

2 ELEVATOR RECALL & AUTO DISCONNECT DETAIL
T1.21 NTS

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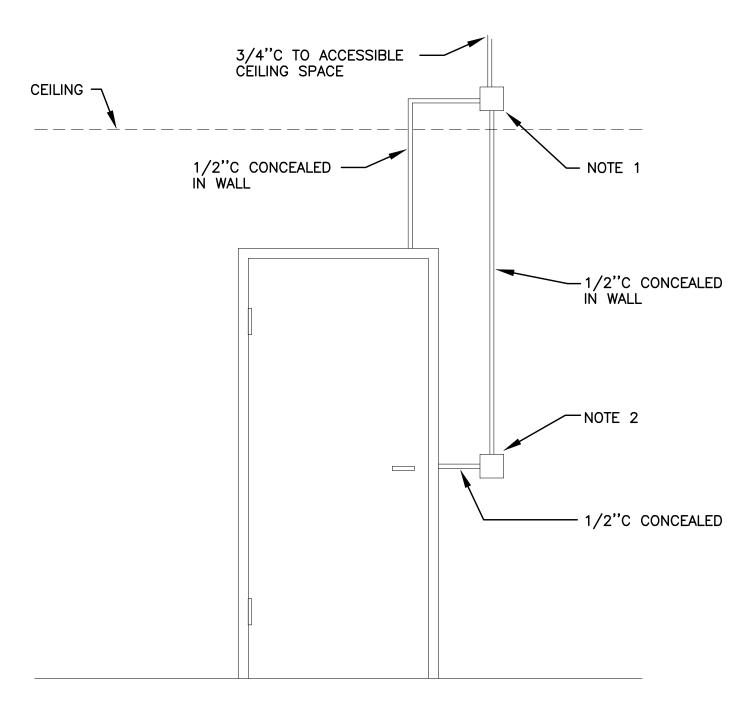
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IXED-USE DEVELOPMENT

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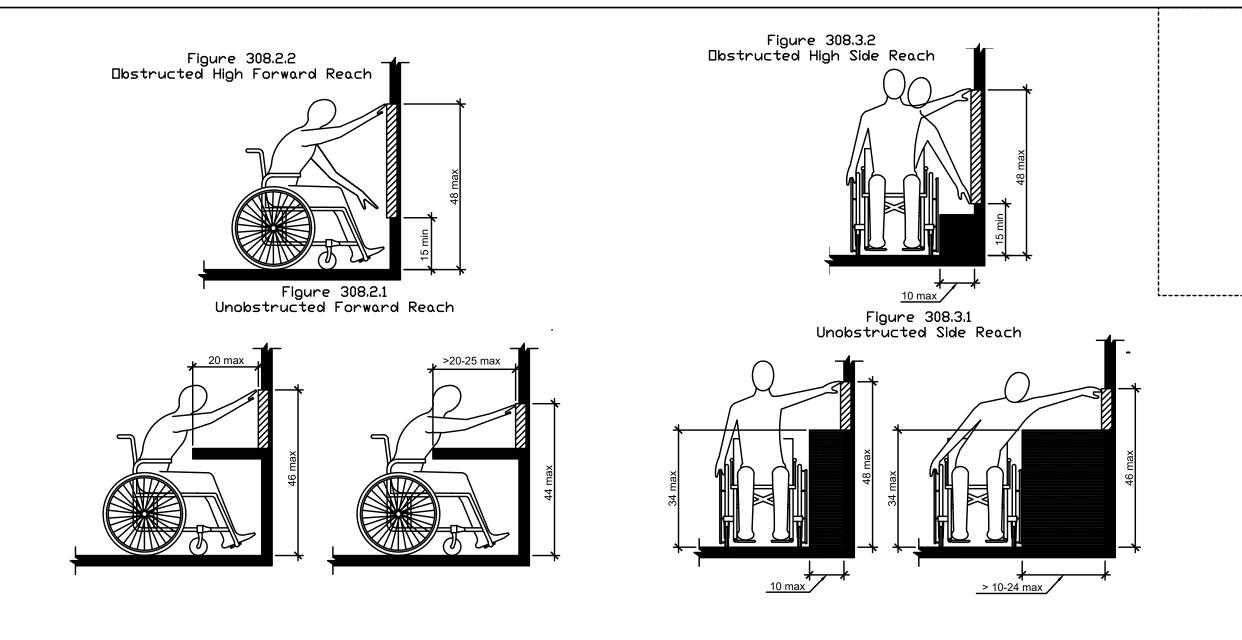
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SECURITY ROUGH-IN NOTES

- 1. 4 SQUARE J-BOX @ 0'-6" ABOVE FINISHED CEILING, VERIFY WITH ARCHITECT.
- 2. DBL GANG BOX, PROVIDE SNGL GANG REDUCER RING IF NEEDED BY SECURITY DEVICE. COORDINATE WITH ARCHITECT TO MEET ADA REQUIREMENTS.





ADA REACH REQUIREMENTS

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48" maximum and the low forward reach shall be 15" minimum above the floor or ground.

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor or ground space shall extend beneath the element for a distance not less thank the required reach depth over the obstruction. The high forward reach shall be 48" maximum where the reach depth is 20" maximum. Where the reach depth exceeds 20", the high forward reach shall be 44" maximum and the reach depth shall be 25" maximum.

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48" maximum and the low side reach shall be 15" minimum above the floor or ground.

Exception: Existing elements shall be permitted at 54" maximum above

the floor or ground.

308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an object and the high side reach is over an obstruction, the height of the obstruction shall be 34" maximum and the depth of the obstruction shall 24" maximum. The high side reach shall be 48" maximum for a reach depth of 10" maximum. Where the reach depth exceeds 10", the high side reach shall be 46" maximum for a reach depth of 24" maximum.

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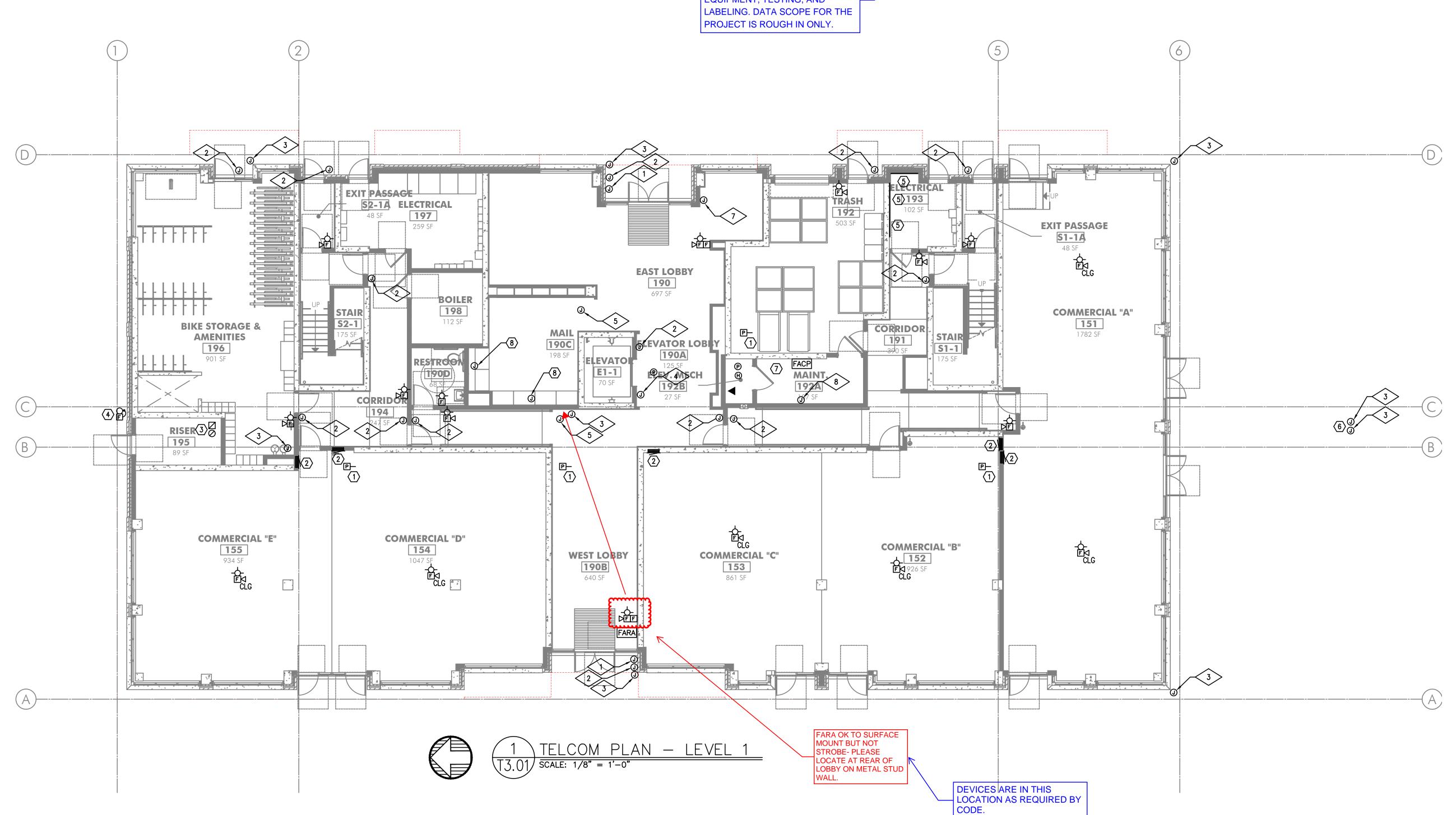
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- B. FOR VOICE/DATA OUTLETS IN COMMERCIAL SPACE, PROVIDE A SINGLE GANG MUD-RING WITH A 1" CONDUIT FROM THE TOP OF THE MUD-RING TO ACCESSIBLE CEILING SPACE. TERMINATE CONDUIT WITH END CONNECTORS AND THREAD ON PLASTIC BUSHING FOR CABLE PROTECTION. OUTLET SHALL BE AT THE SAME HEIGHT AS ADJACENT POWER OUTLET AND LESS THAN 18" SEPARATION. COORDINATE WITH ELECTRICAL.
- C. PROVIDE 3/4" CONDUIT FROM FIRE ALARM, ACCESS CONTROL, SECURITY, AND CCTV LOCATIONS TO ACCESSIBLE CEILING SPACE WITH CABLE PROTECTION AT BOTH ENDS.
- D. COORDINATE ALL DEVICE LOCATIONS WITH LATEST ARCHITECTURAL INTERIOR ELEVATIONS TO VERIFY DEVICES WILL NOT BE OBSTRUCTED.
- E. PROVIDE PULL STRING IN ALL CONDUITS FOR LATER USE.
- F. ALL PENETRATIONS THROUGH FIREWALLS WILL NEED FIRESTOP OF THE APPROPRIATE RATING.
- G. DO NOT SURFACE MOUNT ANY CONDUIT OR FIXTURE WITHOUT PRIOR APPROVAL FROM ARCHITECT, IN ANY PUBLICLY ACCESSIBLE SPACE.

O NOTES:

- VERIFY THE EXACT LOCATION OF FIRE-SMOKE AND SMOKE DAMPERS WITH MECHANICAL PLANS.
- 2. PROVIDE SMART PANEL WITH (2) 1" CONDUITS TO ACCESSIBLE CEILING SPACE FOR UTILITY CABLING TO DEMARCATION POINT.
- 3. VERIFY NUMBER OF DEVICES NECESSARY WITH FIRE SPRINKLER PLANS.
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- 8. PROVIDE BACK BOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE FOR CABLING ACCESS TO PACKAGE DELIVERY SYSTEM.

A DATA OUTLET WOULD REQUIRE
DATA CABLE, TERMINATION
EQUIPMENT, TESTING, AND





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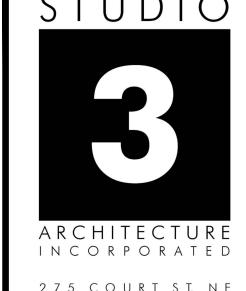
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A T3.01

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- G. DO NOT SURFACE MOUNT ANY CONDUIT OR FIXTURE WITHOUT PRIOR APPROVAL FROM ARCHITECT, IN ANY PUBLICLY ACCESSIBLE SPACE.

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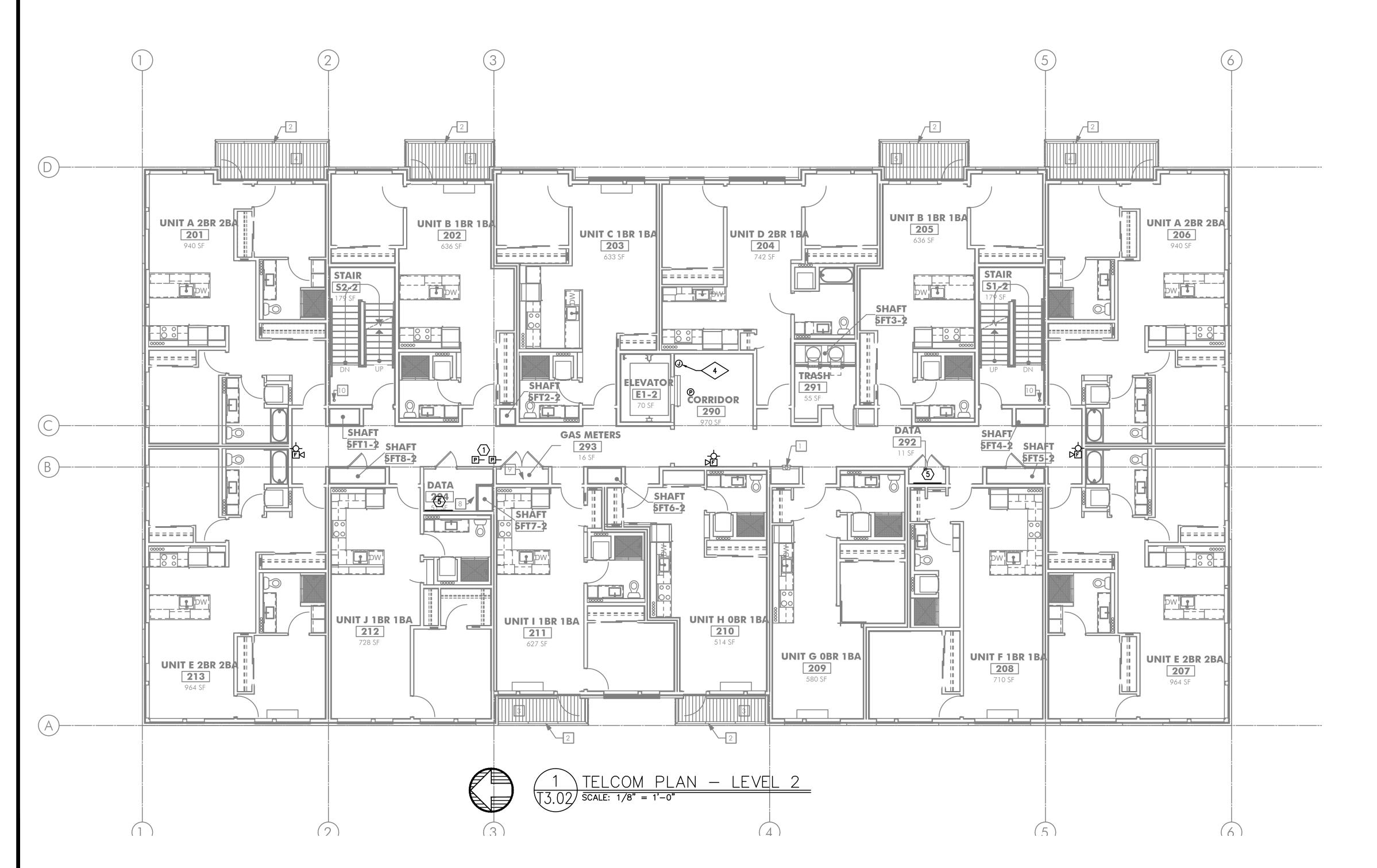
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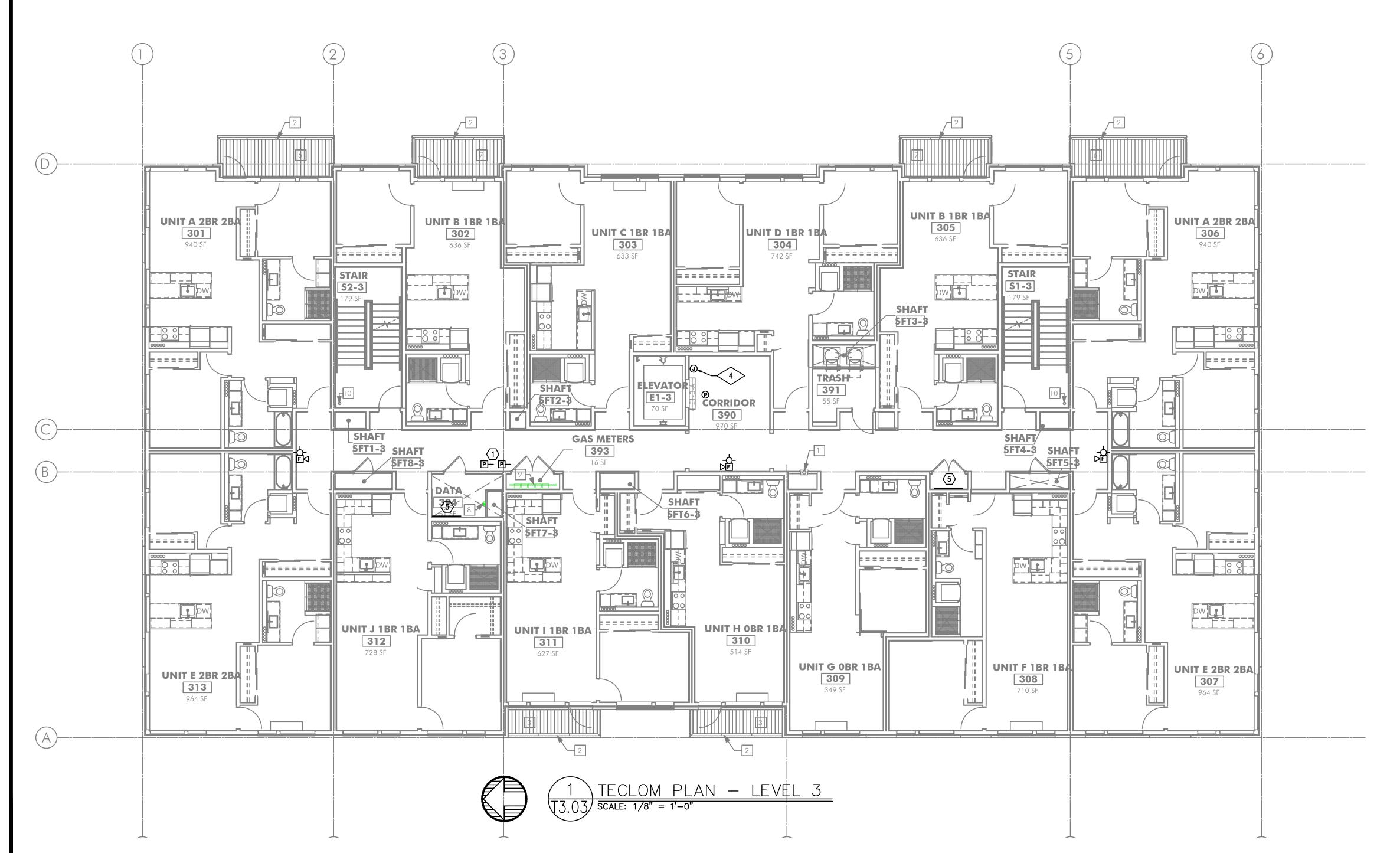
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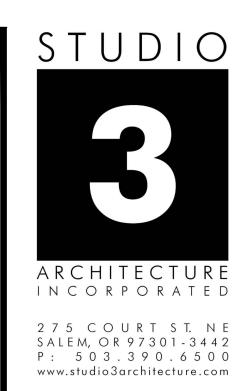


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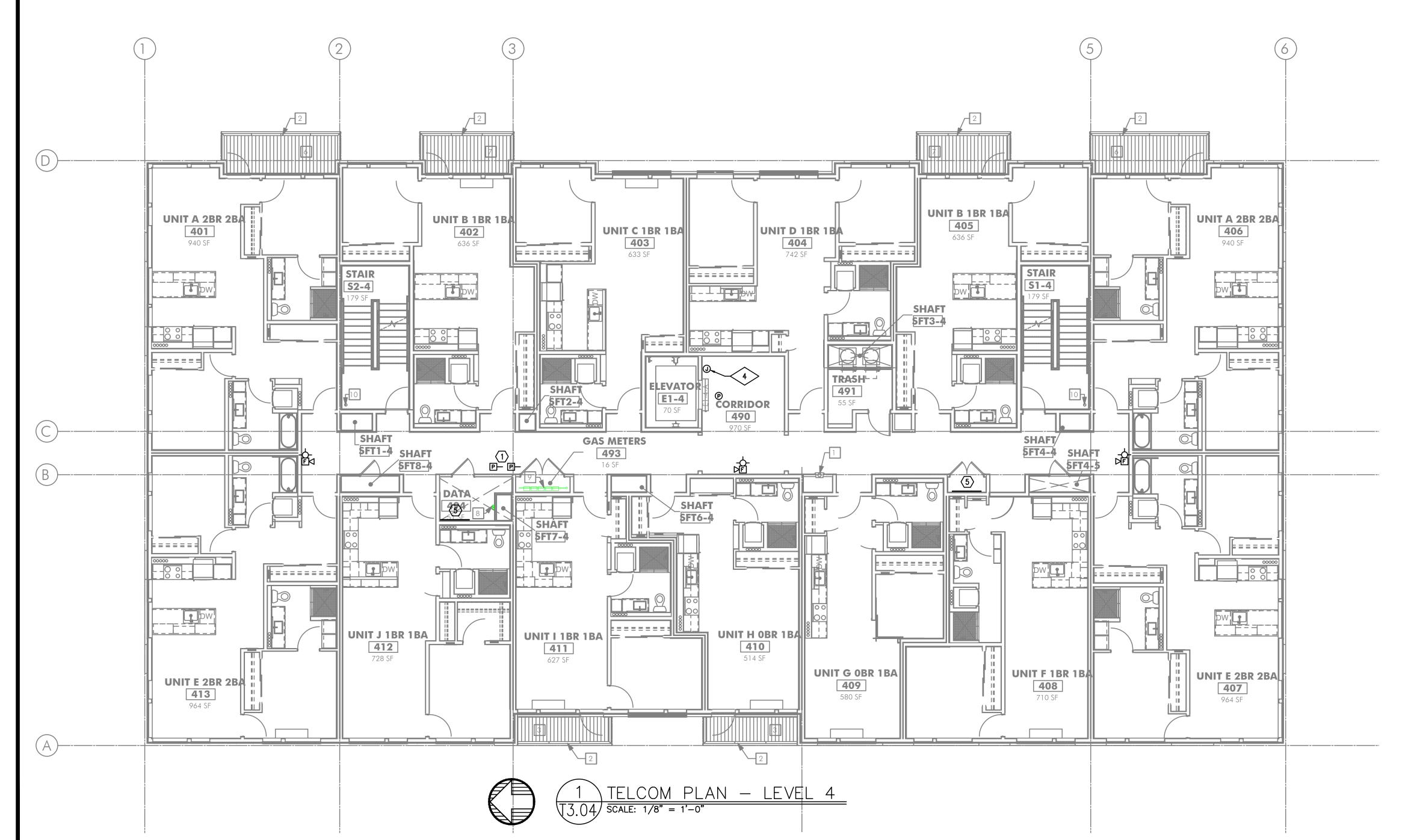
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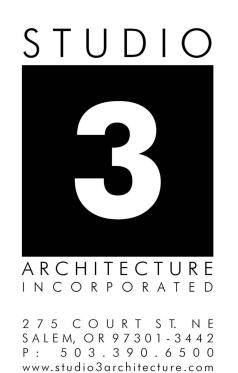
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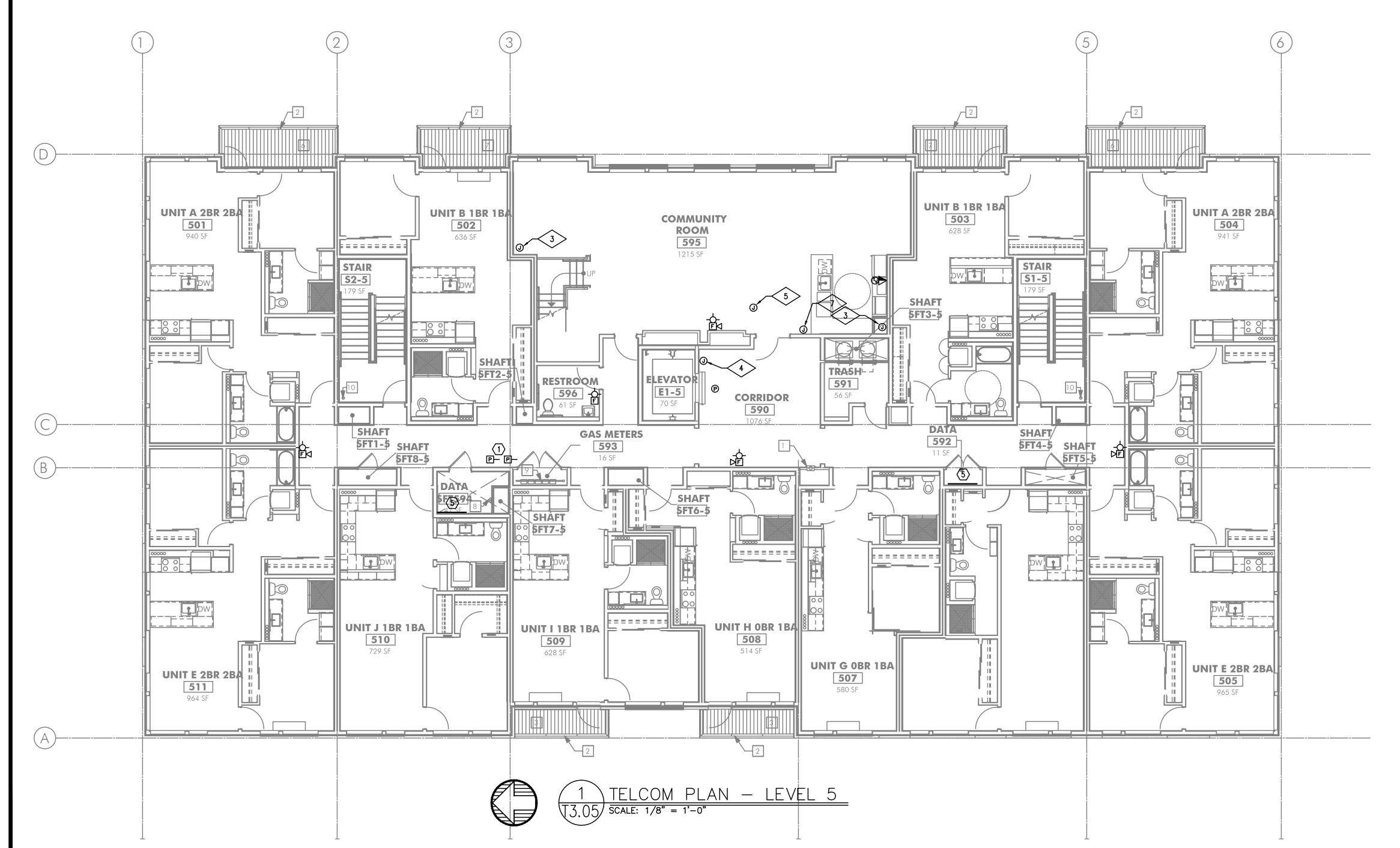
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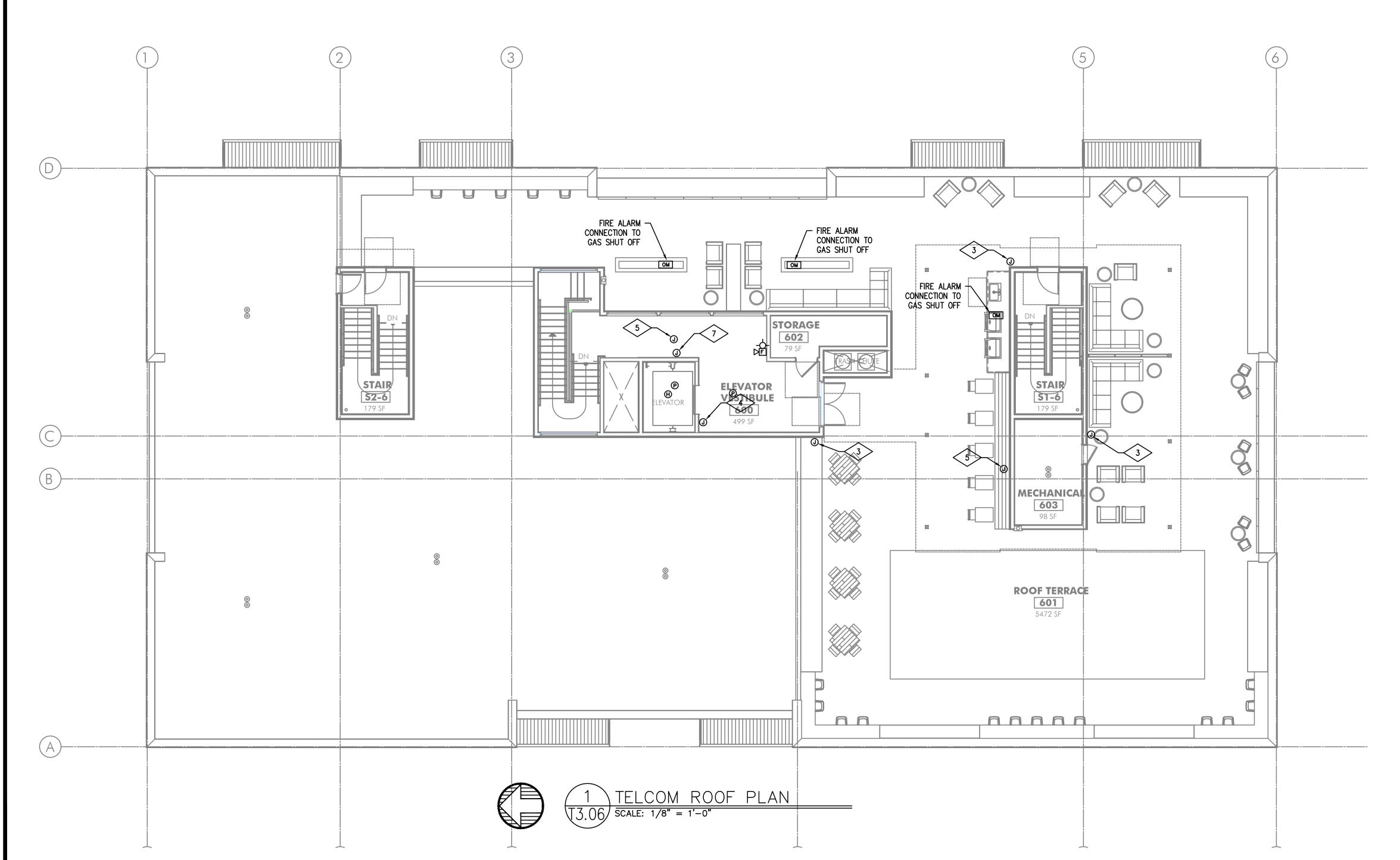
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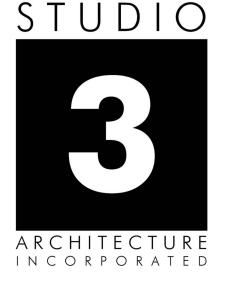
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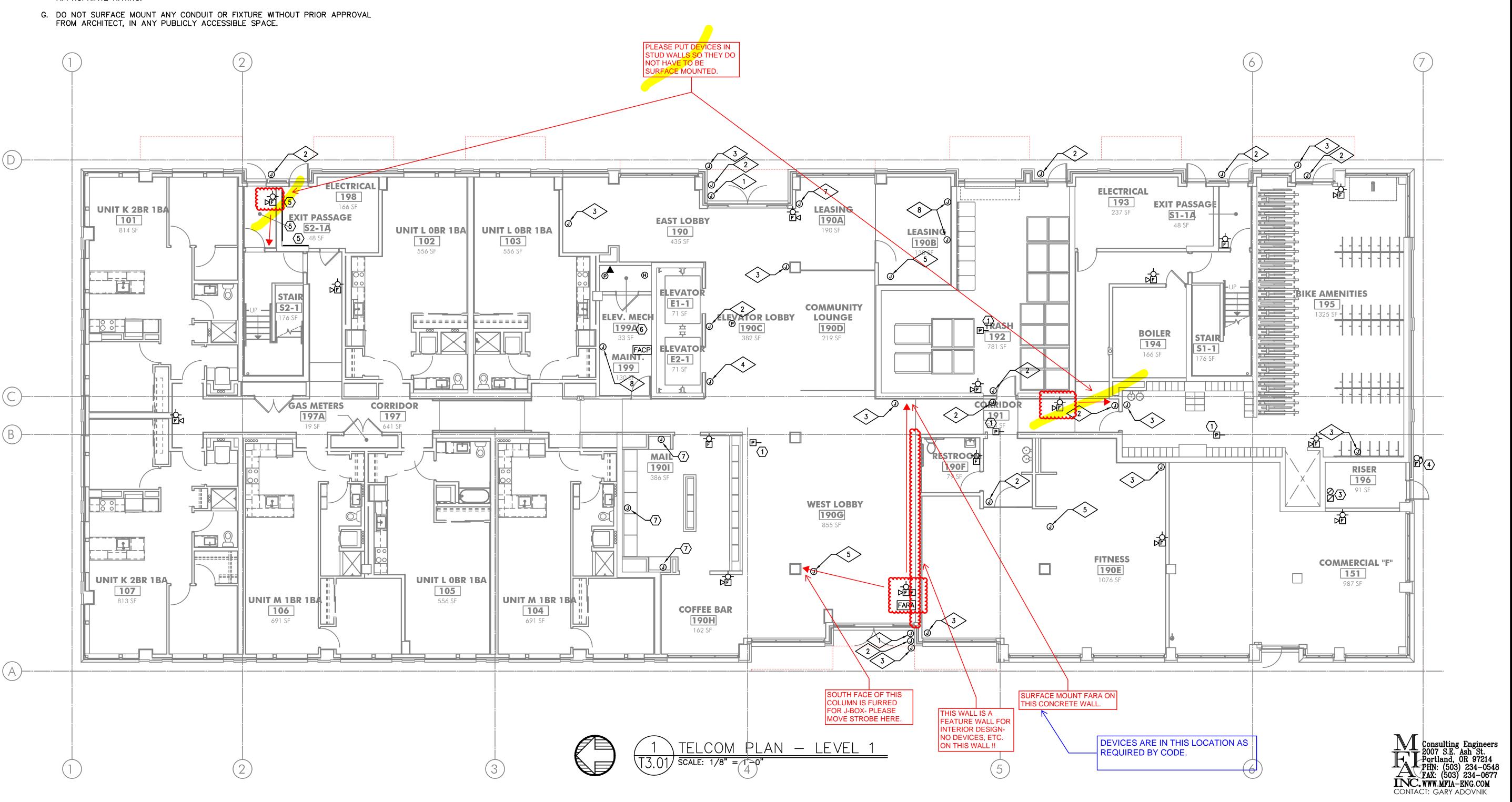
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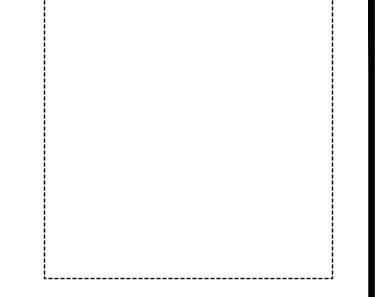
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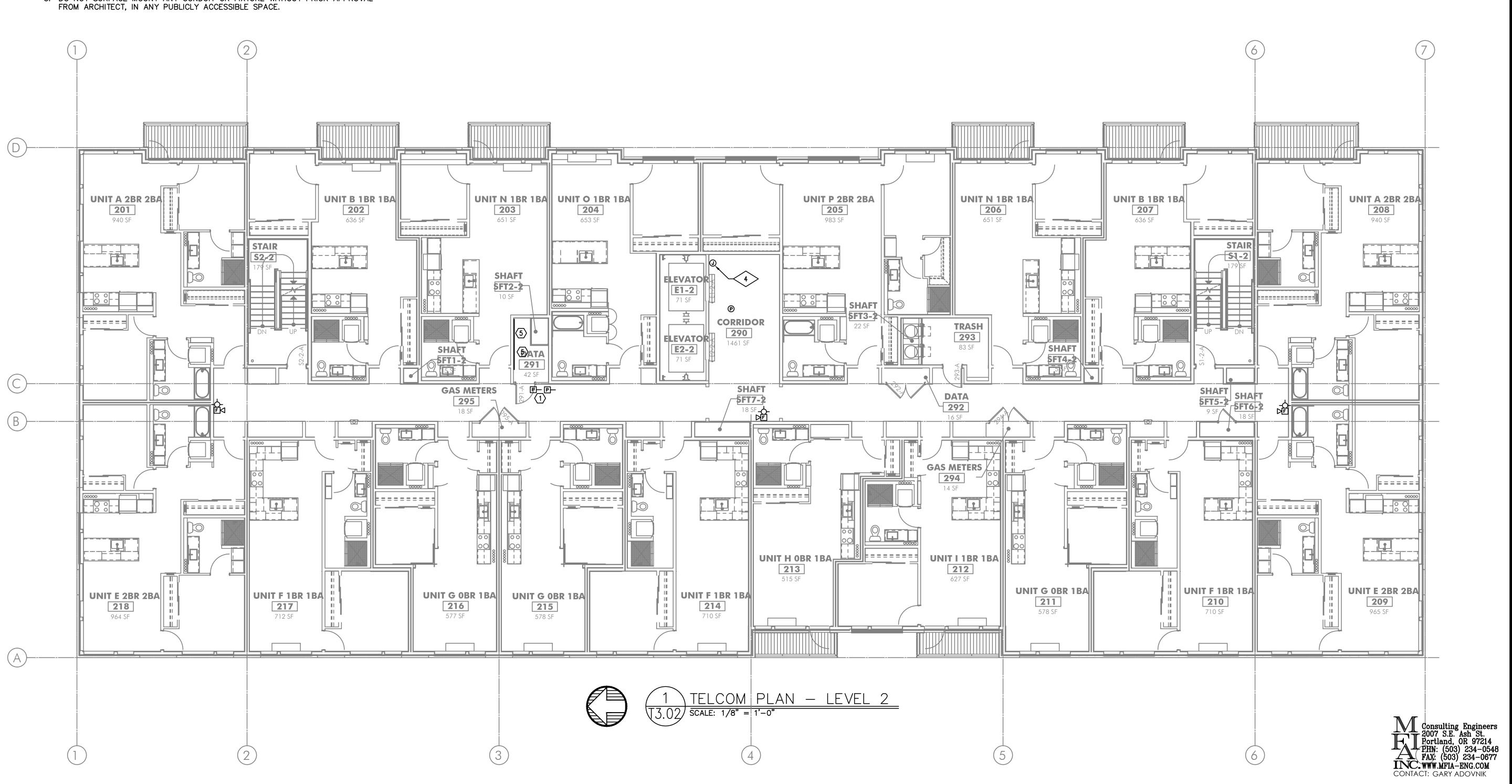


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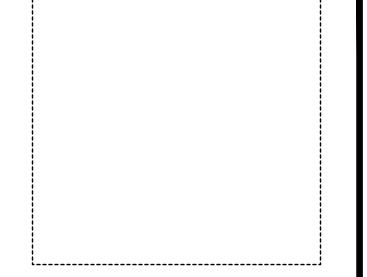
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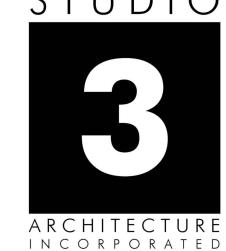


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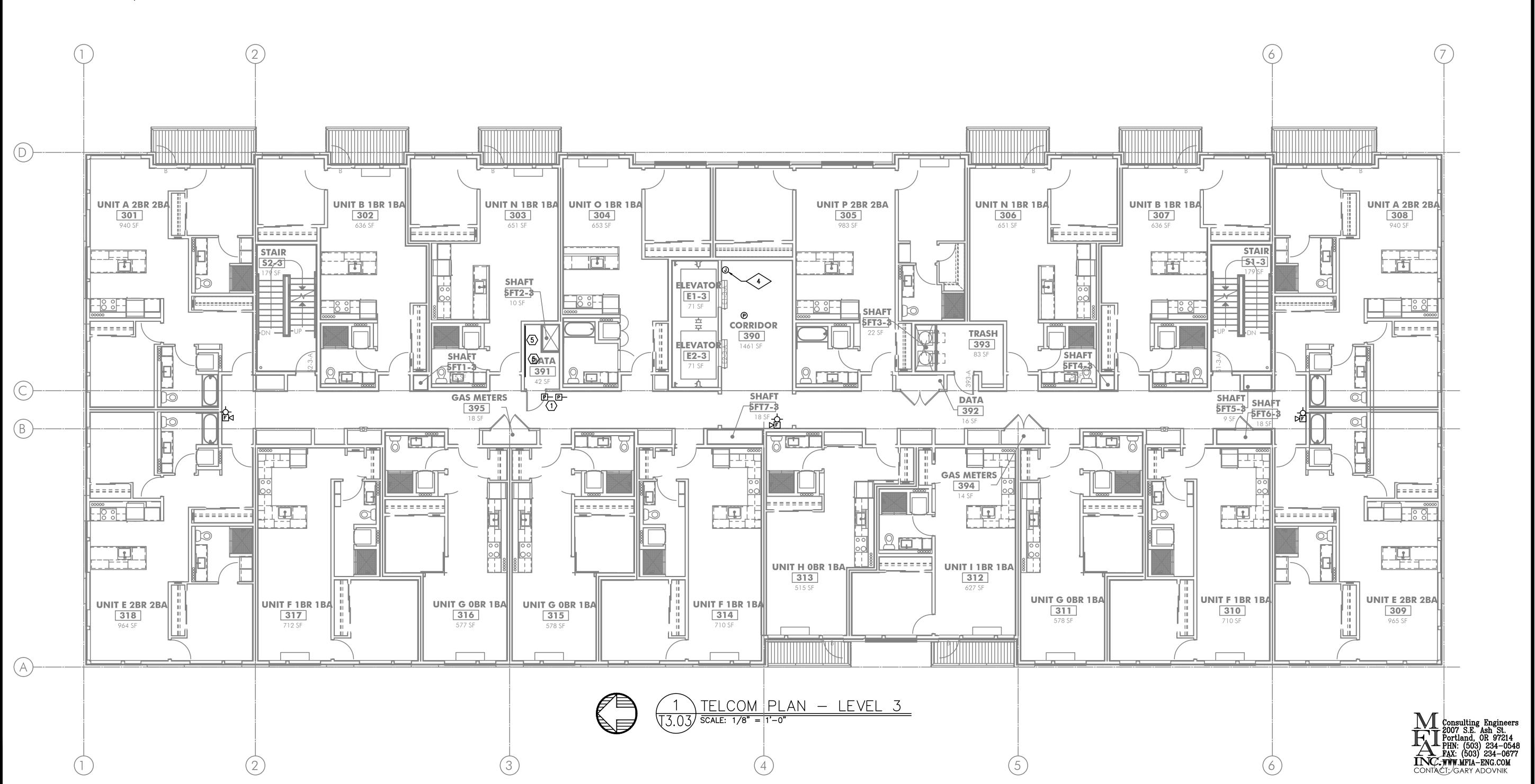


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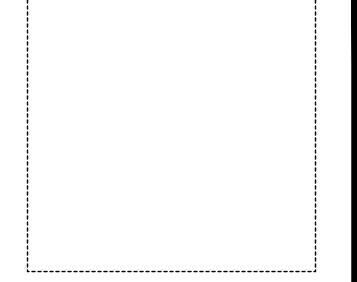
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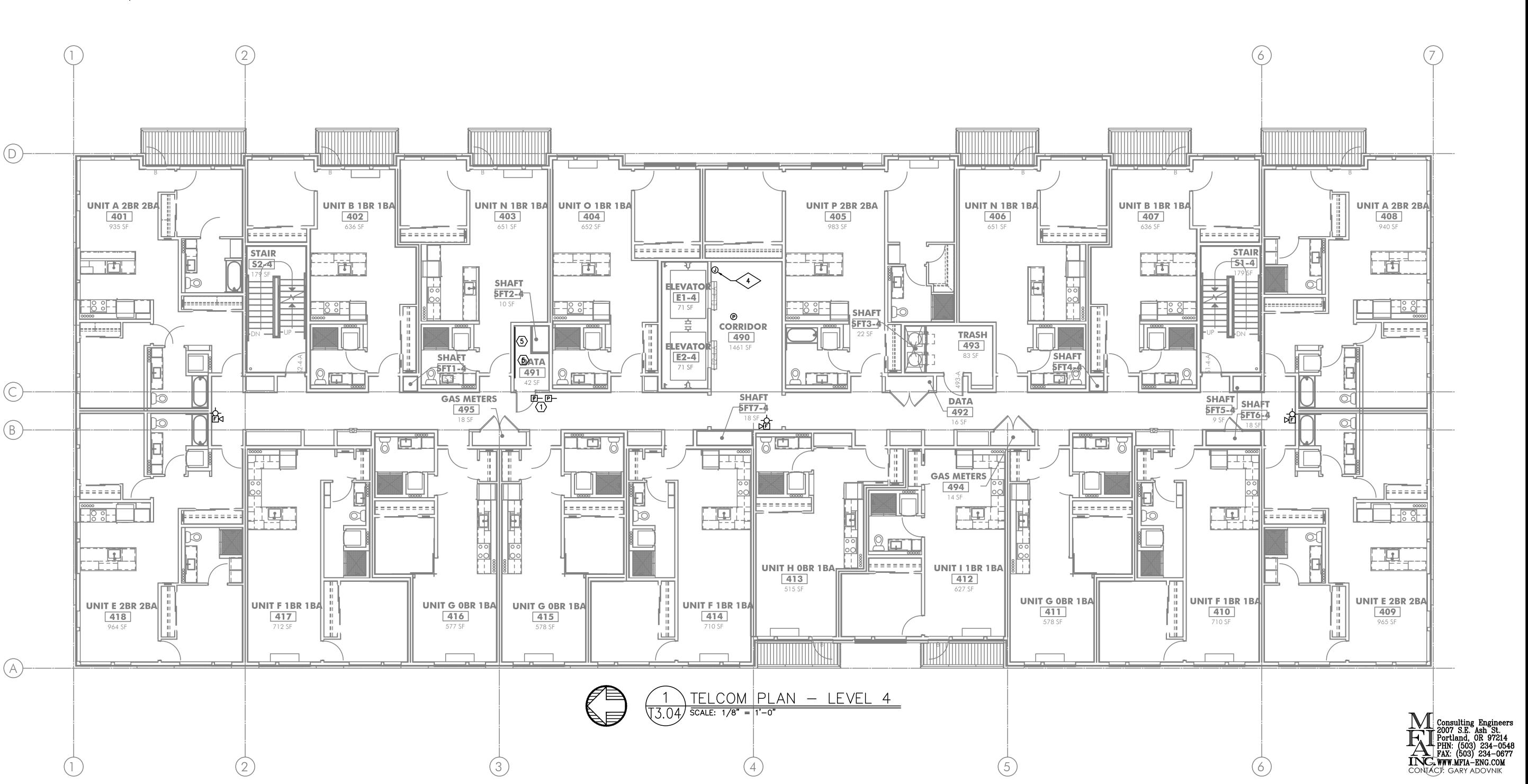


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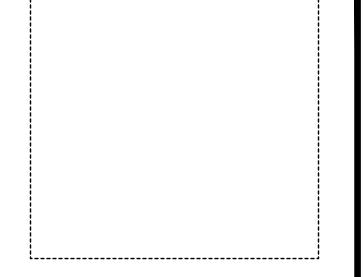
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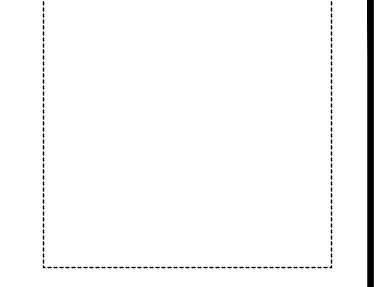
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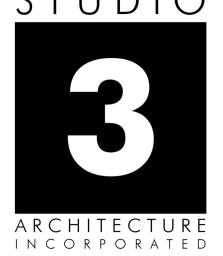


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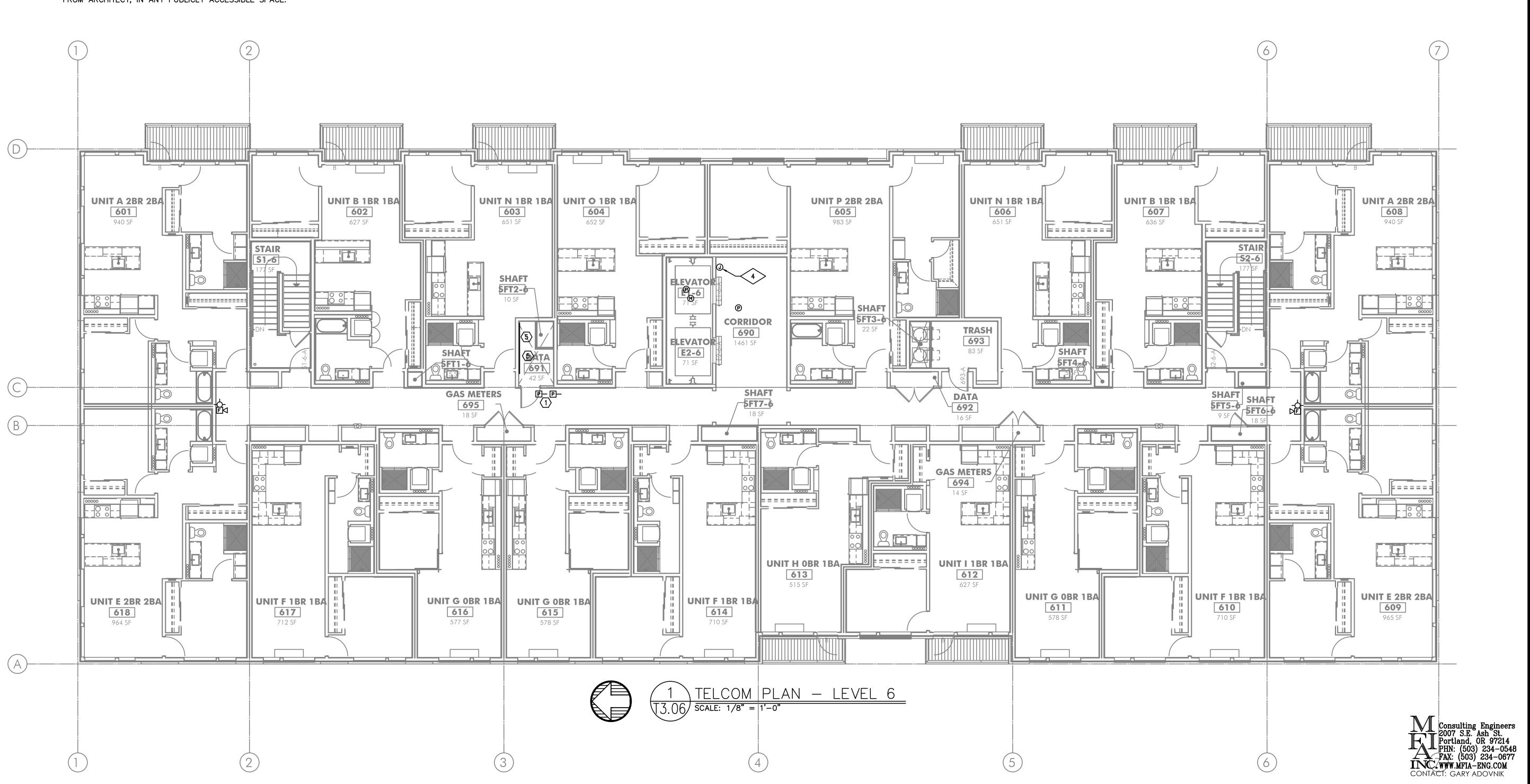
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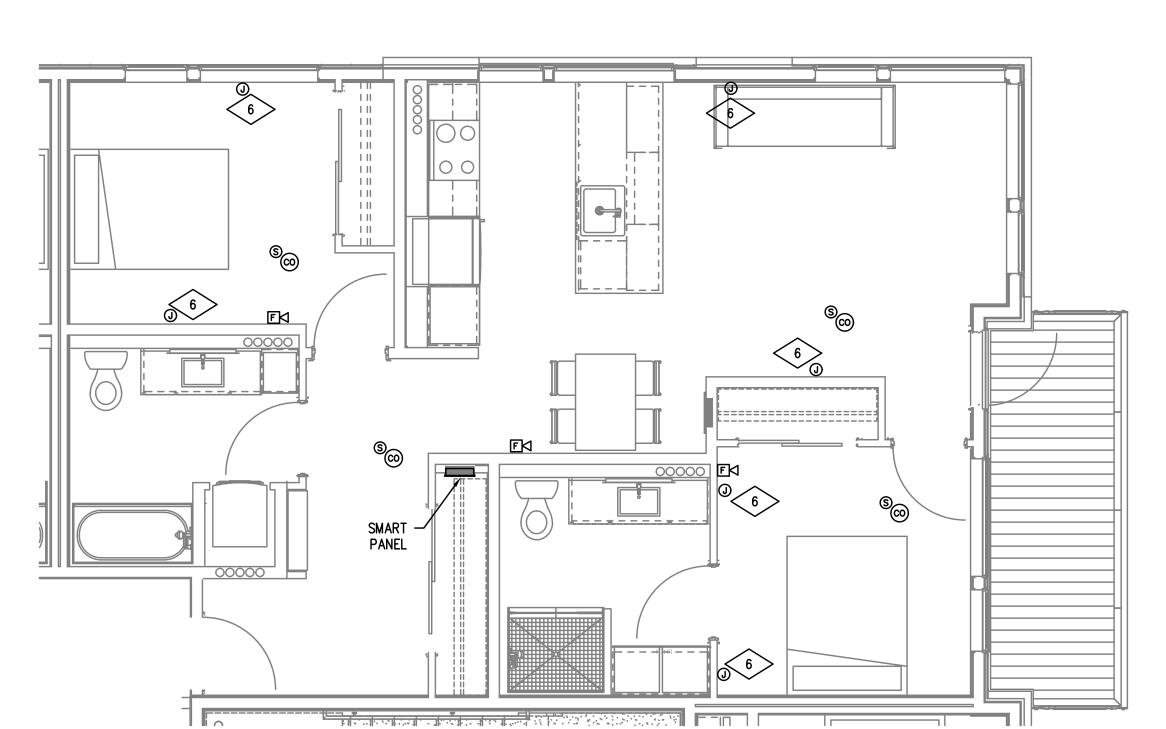
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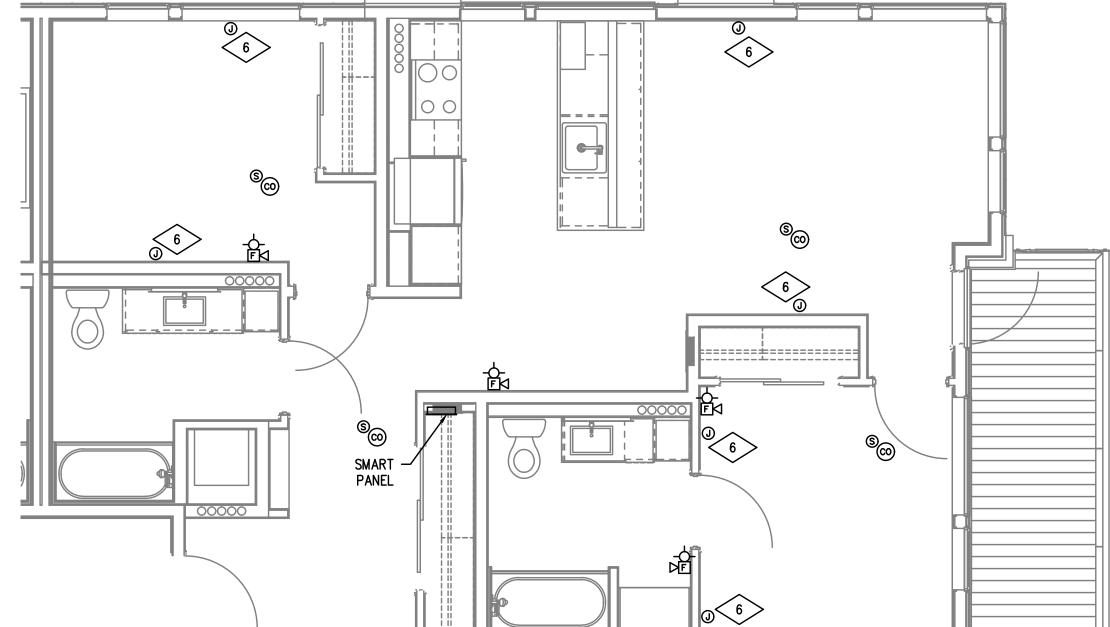
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B 13.06







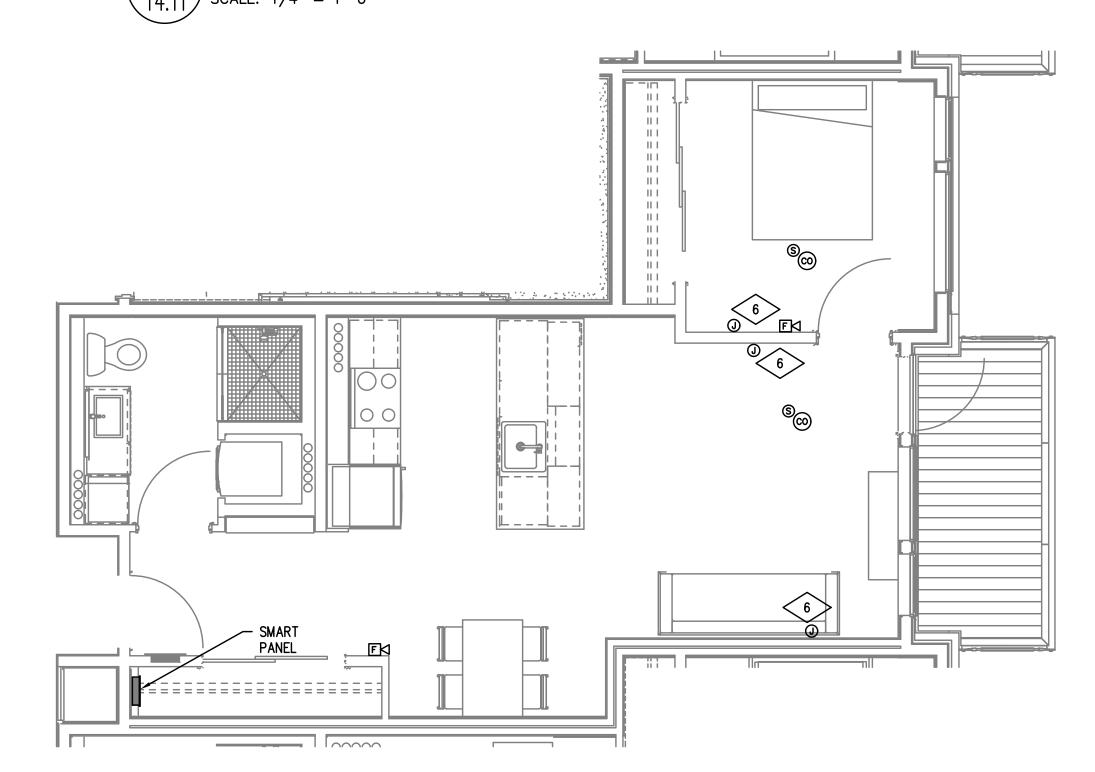
THERE WILL BE SOME MINOR ADJUSTMENTS IN A FEW UNITS- UPDATED BACKGROUNDS TO BE SENT OUT SHORTLY. PLEASE UPDATE TO LATEST BEFORE ISSUING PERMIT SET. THANK YOU.

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TYPICAL UNIT TYPE A

1 2 BED/2 BATH — TELCOM PLAN

T4.11 SCALE: 1/4" = 1'-0"



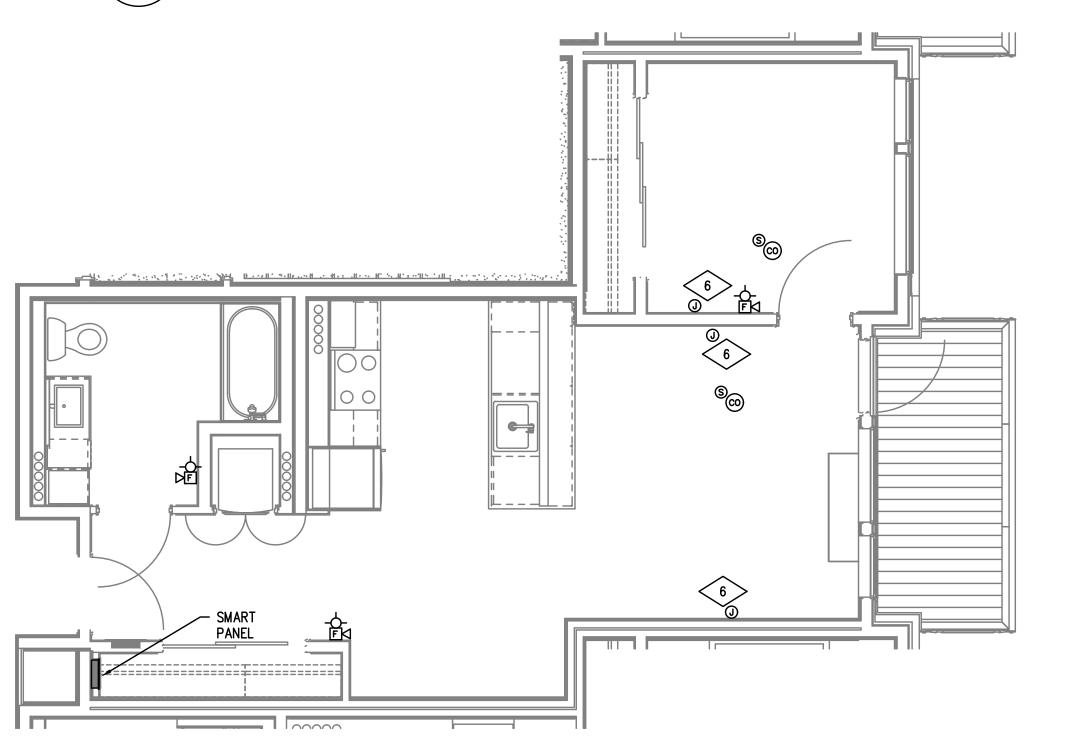
TYPICAL UNIT TYPE B

1 BED/1 BATH - TELCOM PLAN

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

TYPICAL UNIT TYPE A-ADA 2 BED/2 BATH — TELCOM PLAN

T4.11 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE B-ADA

(4) 1 BED/1 BATH — TELCOM PLAN

[74.11] SCALE: 1/4" = 1'-0"

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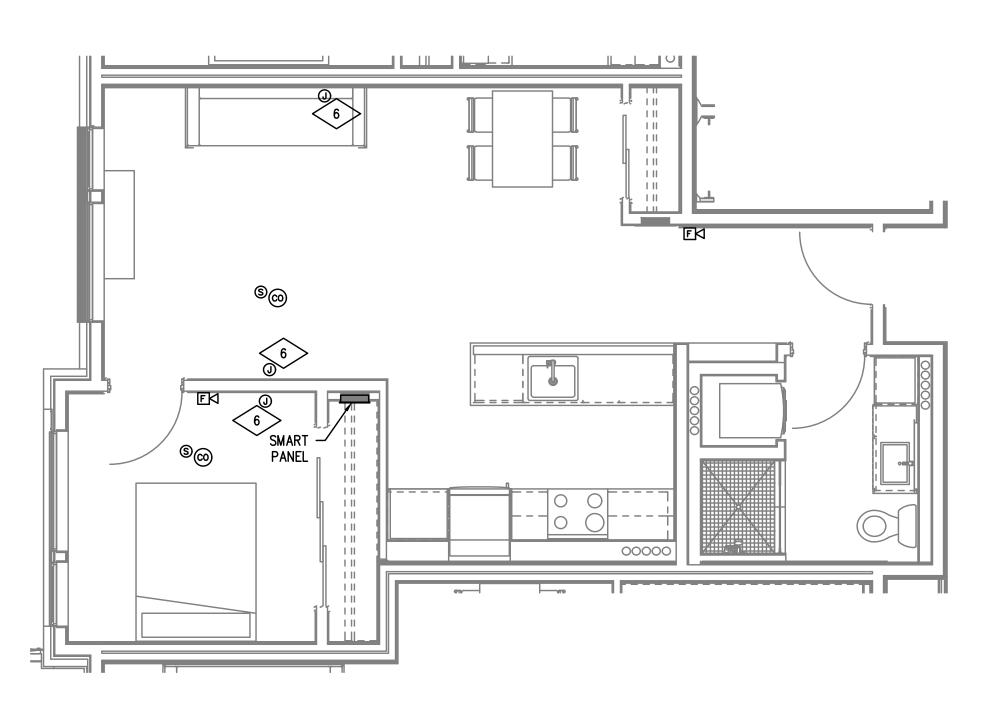
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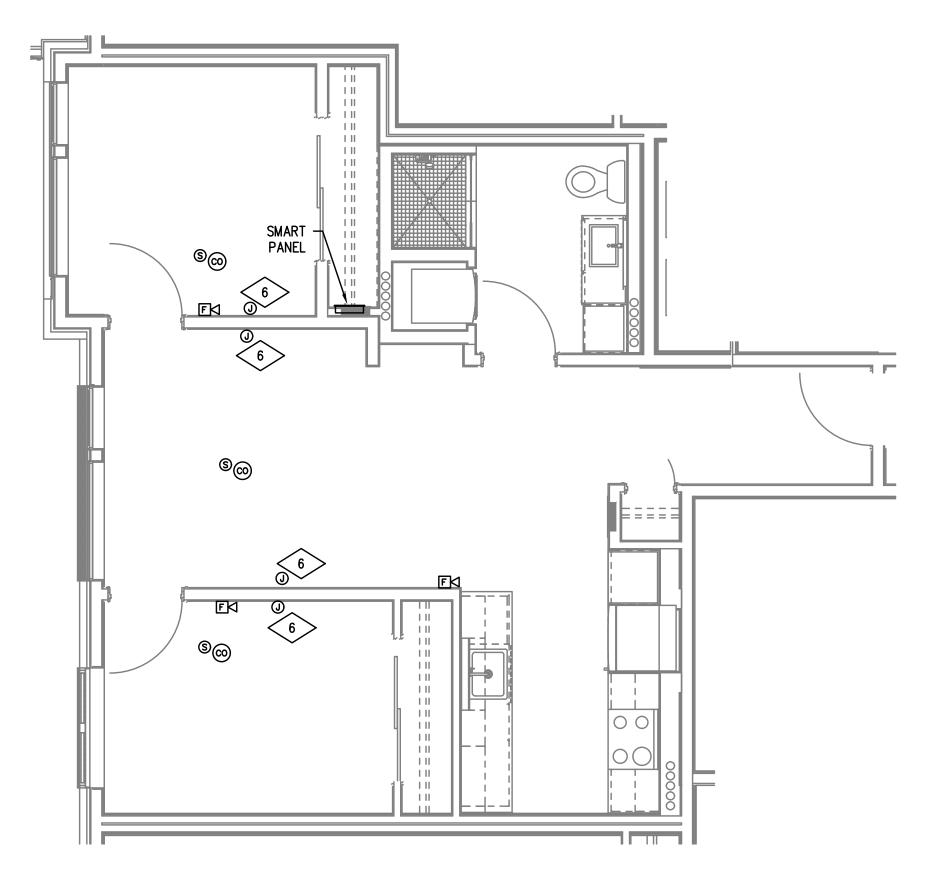
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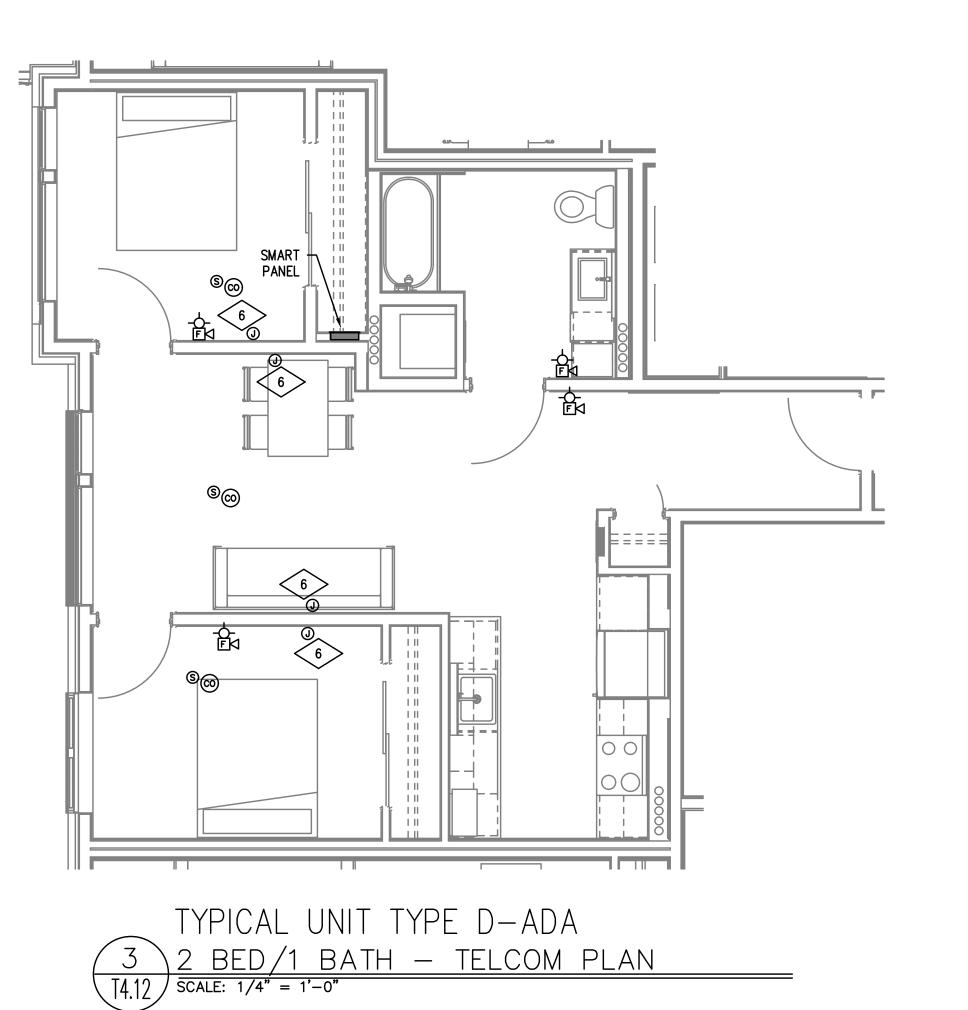


TYPICAL UNIT TYPE C 1 BED/1 BATH - TELCOM PLAN 74.12 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE D 2 BED/1 BATH — TELCOM PLAN

[14.12] SCALE: 1/4" = 1'-0"



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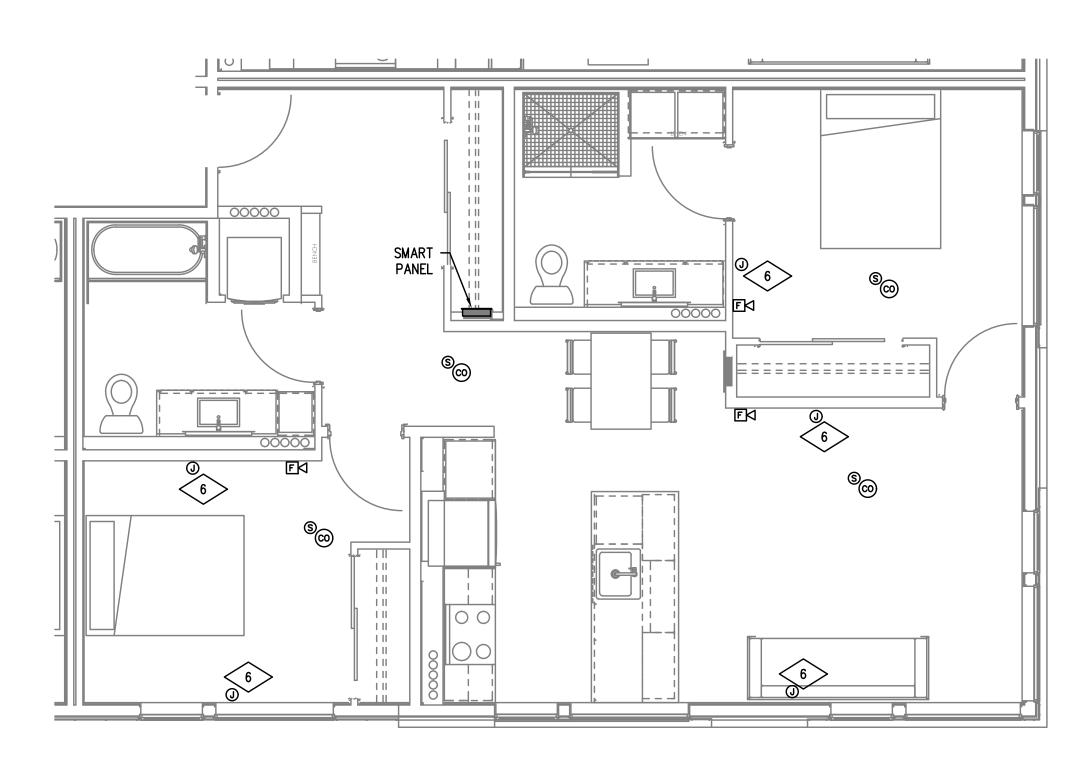
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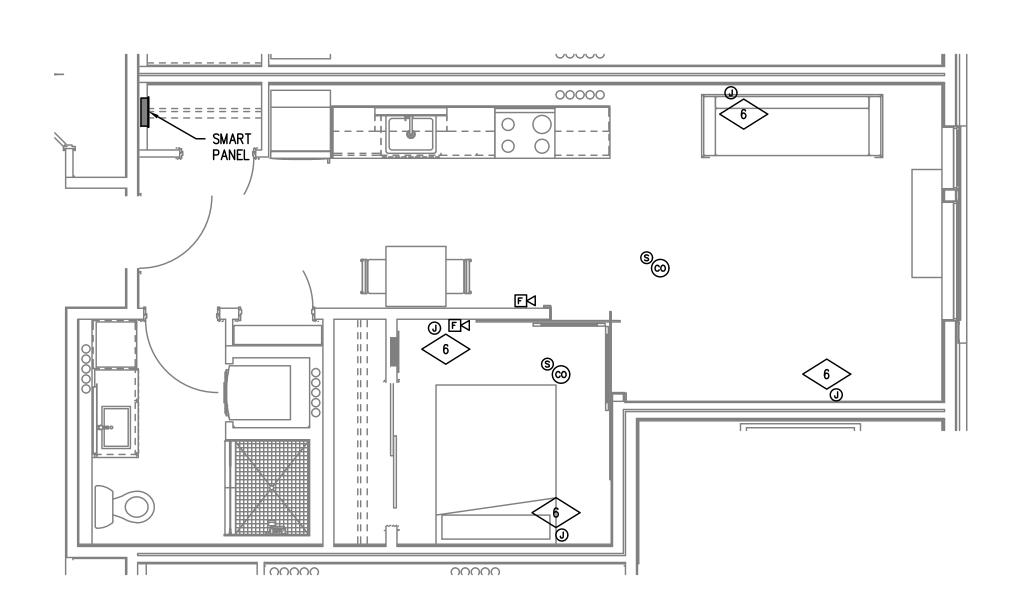
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TYPICAL UNIT TYPE E

1 2 BED/2 BATH — TELCOM PLAN

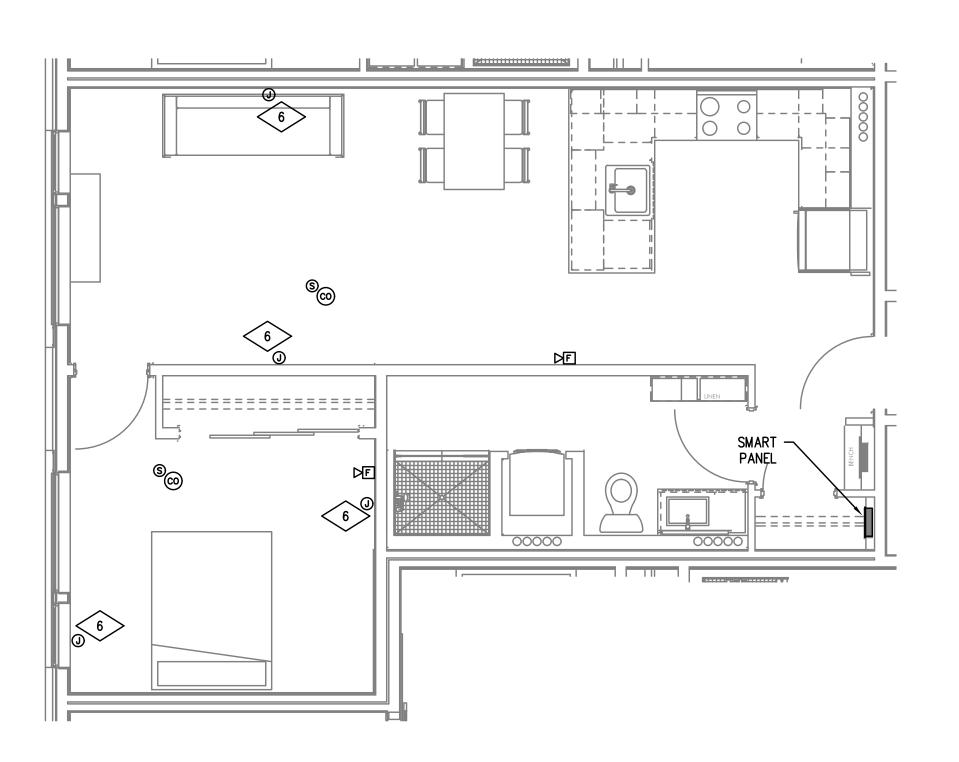
T4.13 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE G

3 1 BED/1 BATH — TELCOM PLAN

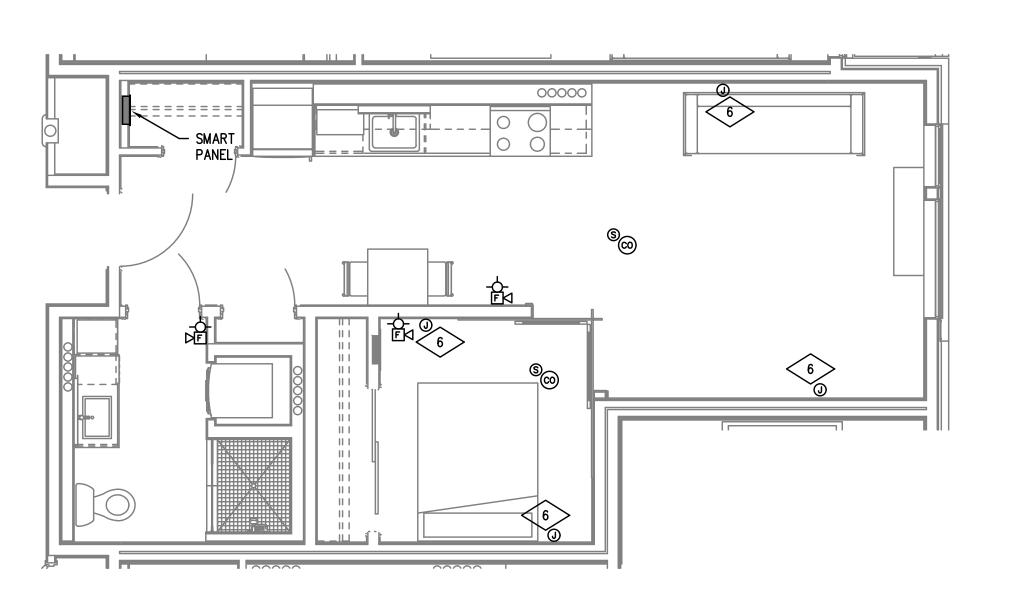
T4.13 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE F

2 1 BED/1 BATH — TELCOM PLAN

T4.13 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE G-ADA

4 1 BED/1 BATH - TELCOM PLAN

T4.13 SCALE: 1/4" = 1'-0"

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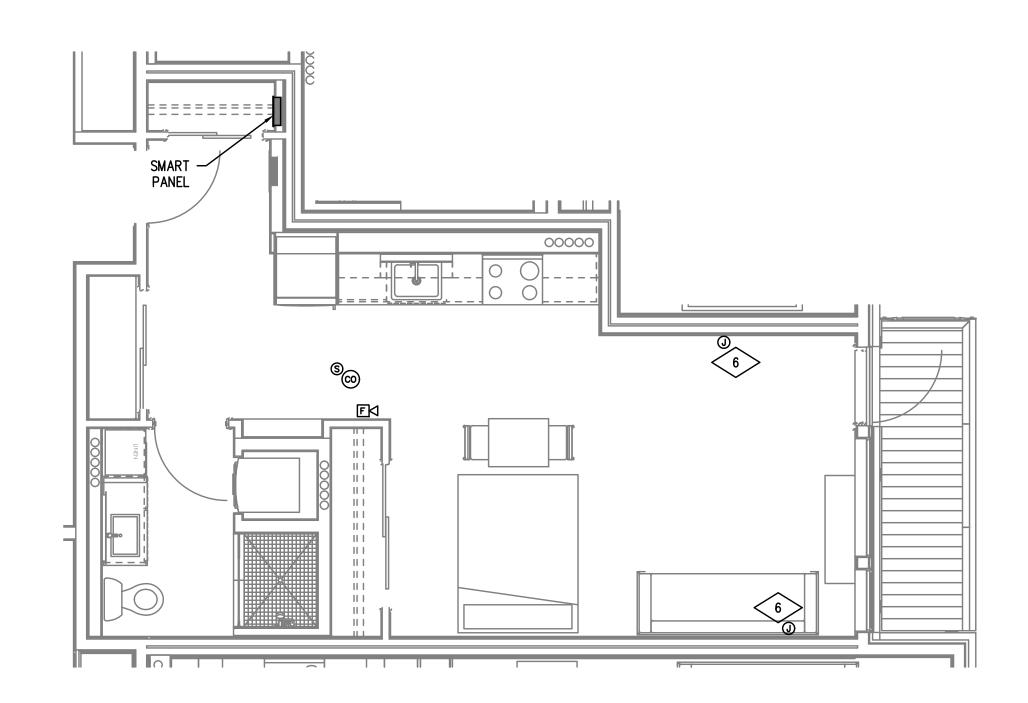
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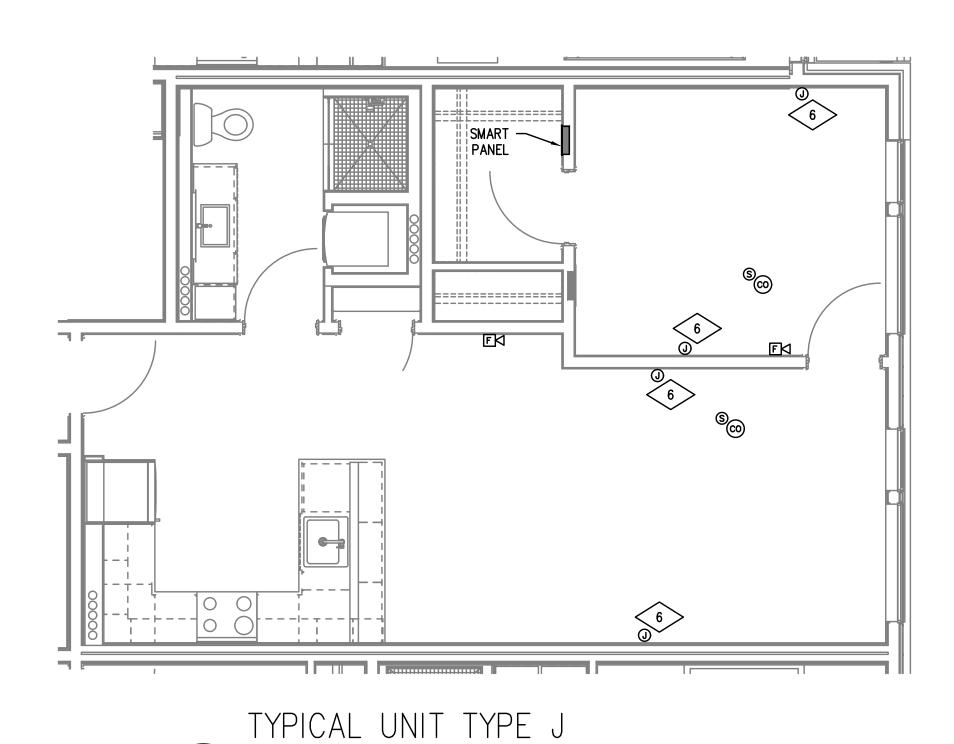
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T4.13

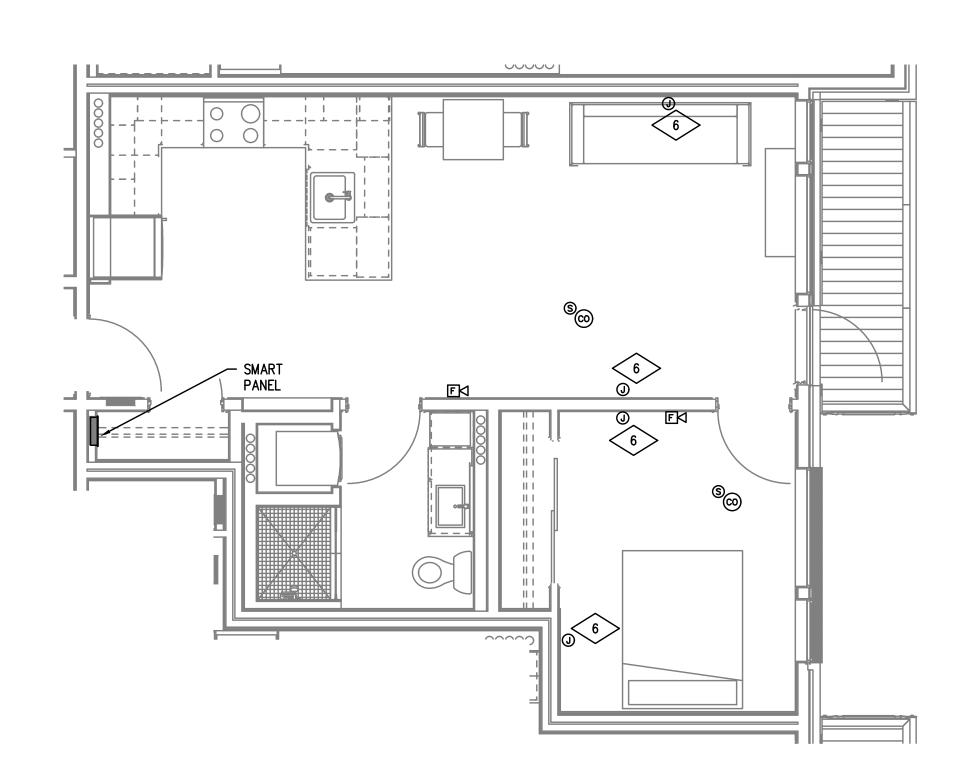


TYPICAL UNIT TYPE H 1 0 BED/2 BATH — TELCOM PLAN

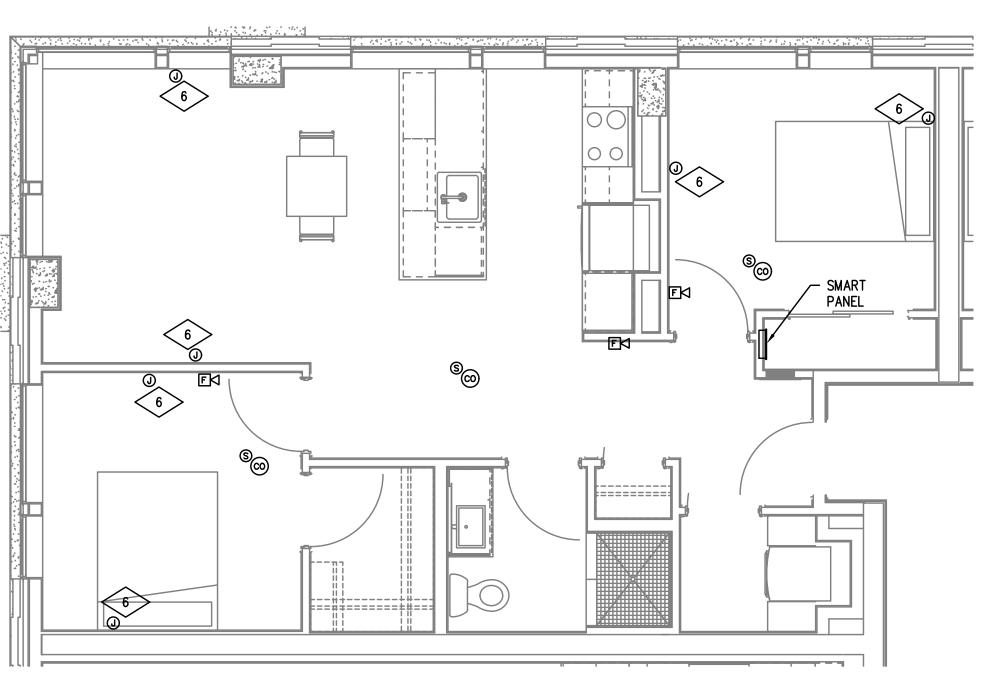
T4.14 SCALE: 1/4" = 1'-0"



 $\frac{3}{14.14} \frac{1}{\text{SCALE: } 1/4" = 1'-0"}$



TYPICAL UNIT TYPE I BED/1 BATH - TELCOM PLAN 74.14 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE K 4 2 BED/1 BATH — TELCOM PLAN

[14.14] SCALE: 1/4" = 1'-0"

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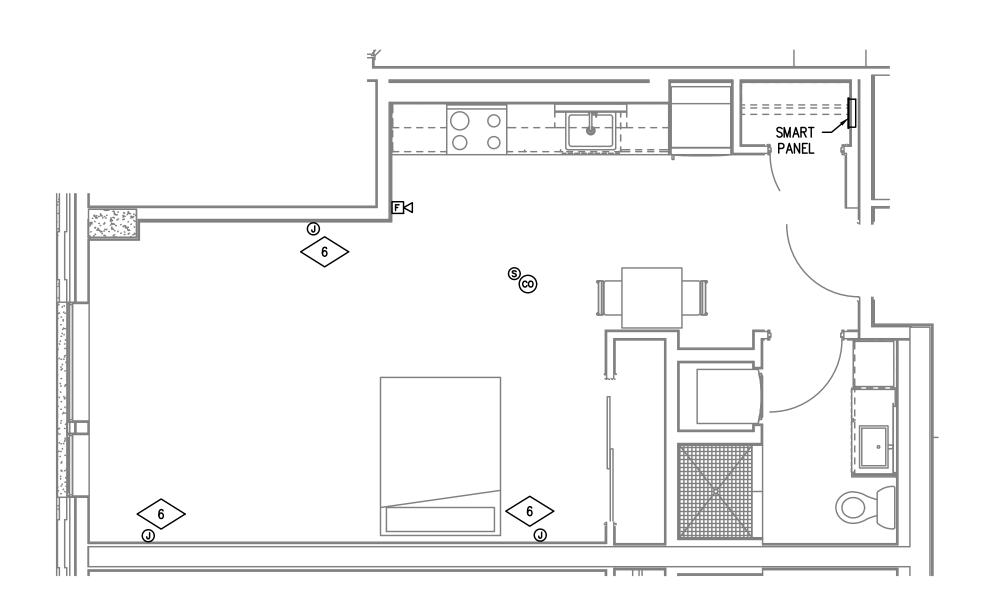
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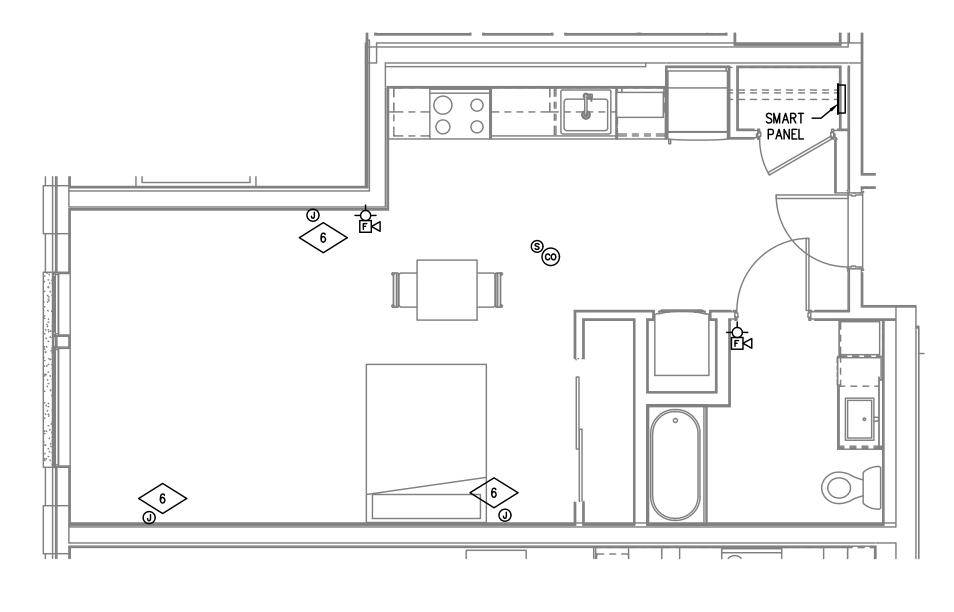
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TYPICAL UNIT TYPE L

1 0 BED/1 BATH — TELCOM PLAN

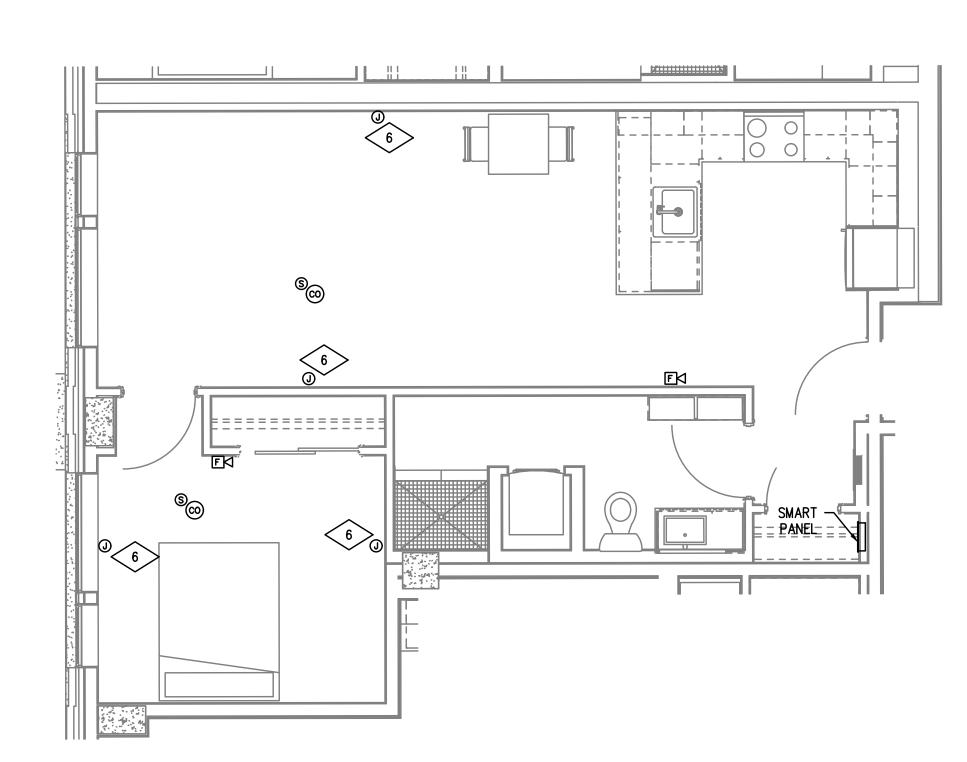
T4.15 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE L-ADA

2 0 BED/1 BATH - TELCOM PLAN

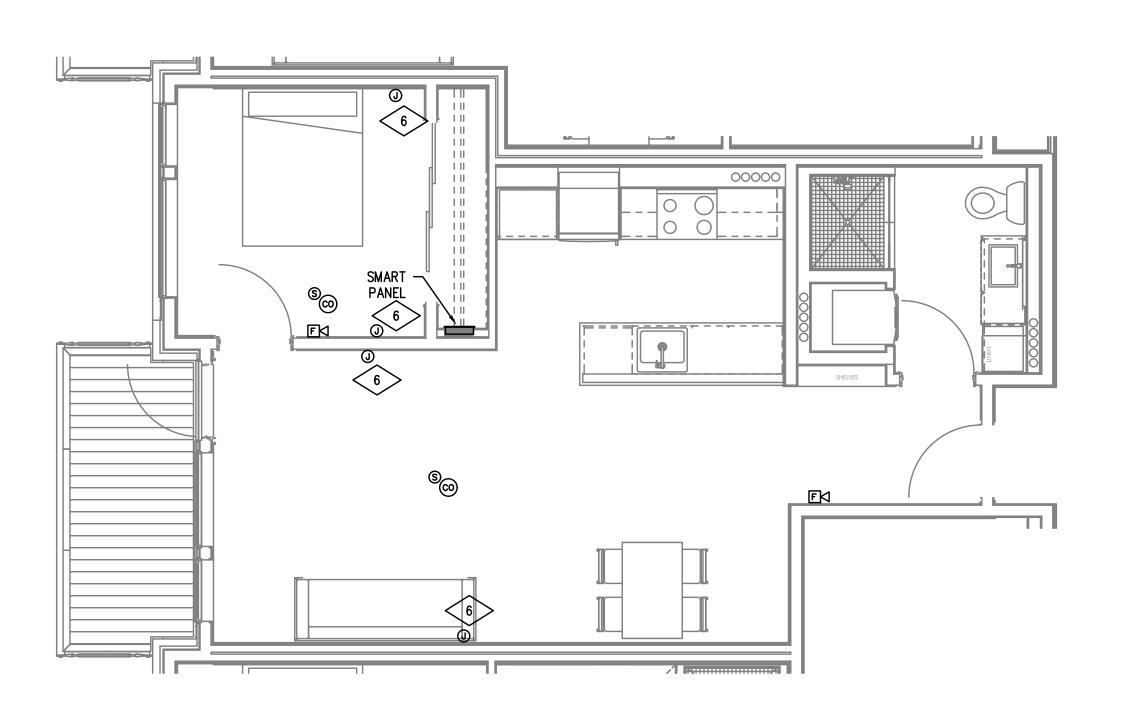
T4.15 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE M

3 1 BED/1 BATH — TELCOM PLAN

T4.15 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE N

4 1 BED/1 BATH — TELCOM PLAN

T4.15 SCALE: 1/4" = 1'-0"

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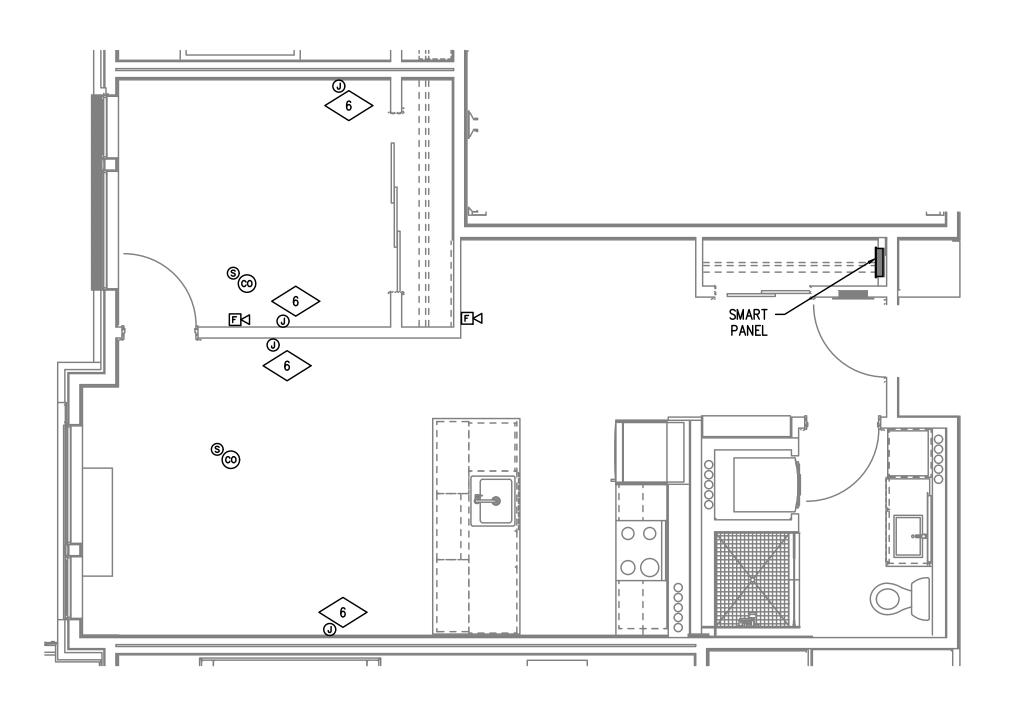
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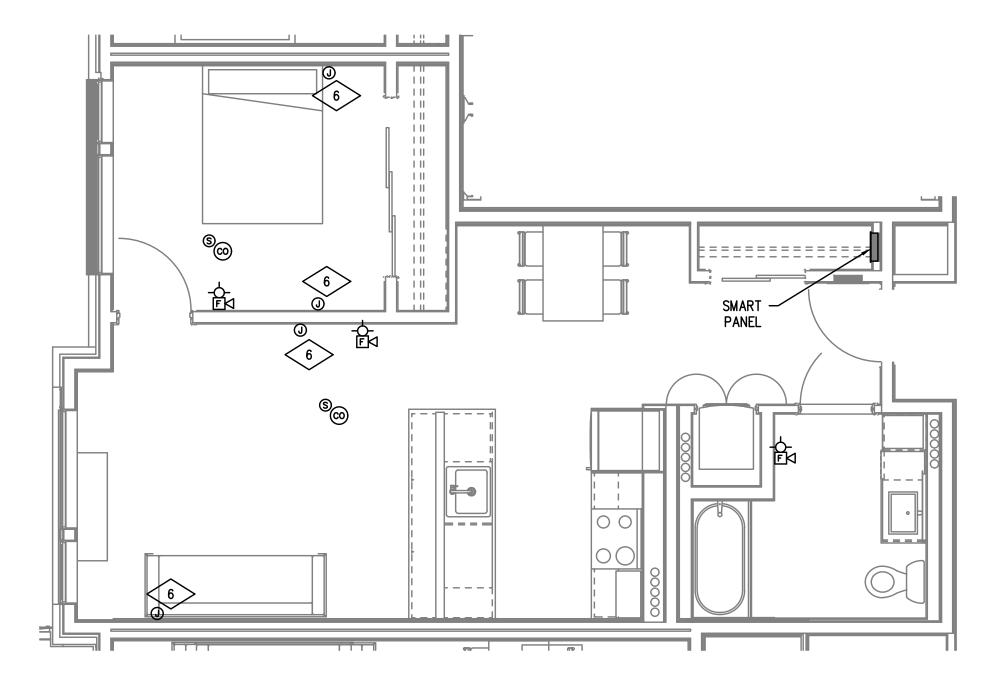
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T4.15

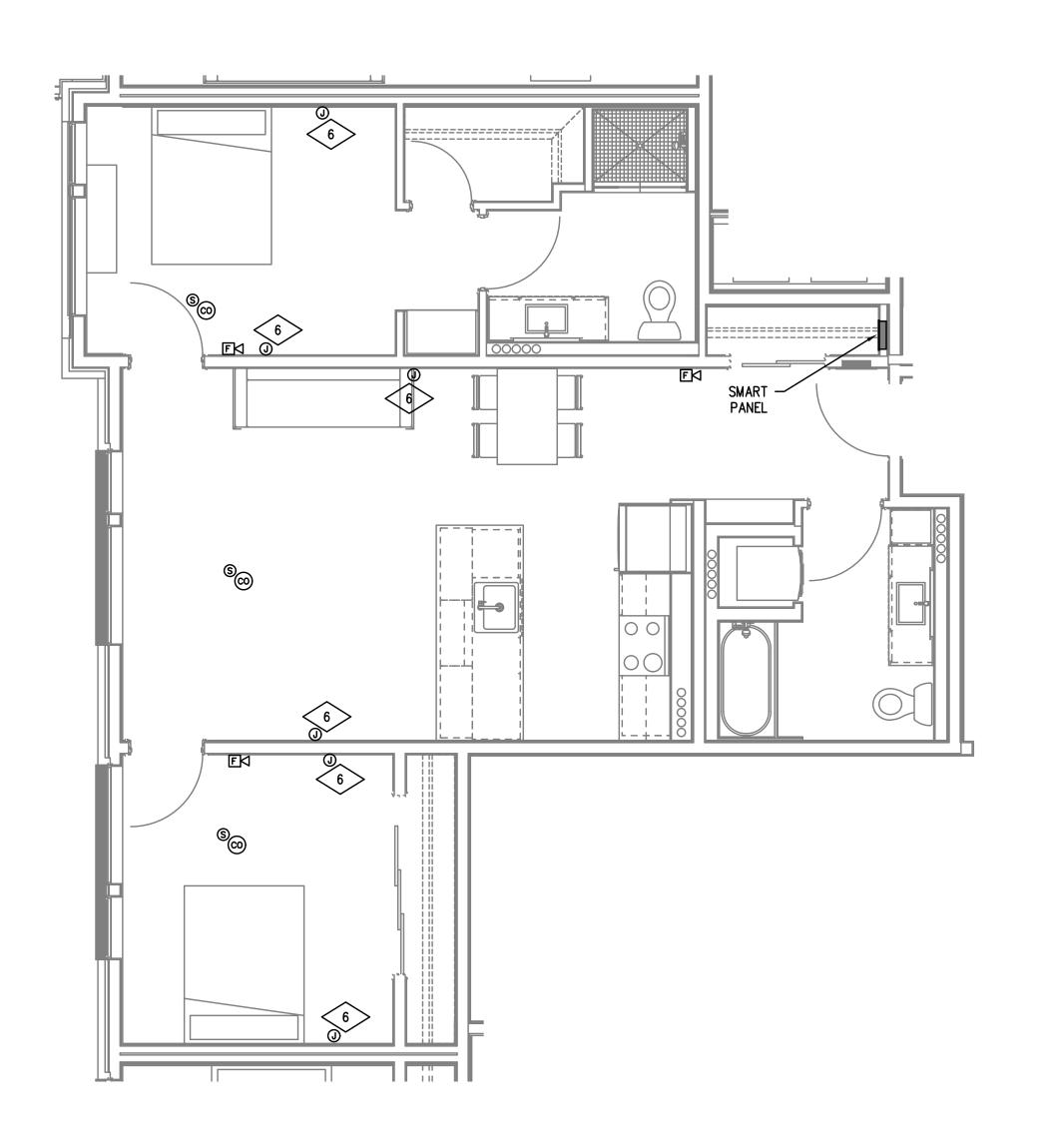


TYPICAL UNIT TYPE O BED/1 BATH - TELCOM PLAN 74.16 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE O-ADA 2 1 BED/1 BATH — TELCOM PLAN

T4.16 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE P 2 BED/2 BATH — TELCOM PLAN

T4.16 SCALE: 1/4" = 1'-0"

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