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09.17.2018	
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TELCOM
SYMBOL
LIST

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TELCOM SYMBOL LIST

SIGNAL SYMBOLS

▼	TELEPHONE OUTLET +18" A.F.F.
▼W	WALL TELEPHONE OUTLET +48" A.F.F.
▽	CABLE FOR WIRELESS ACCESS POINT
▼C	(2) PORTS PER OUTLET +18" A.F.F., U.O.N.
▼(X)	'C' INDICATES OUTLET ABOVE COUNTER
▼(X)	'X' INDICATES CABLE/PORT COUNT IN FP
▼(X)	OUTLET IN FLOOR BOX (2) PORTS U.O.N.
▼(X)	OUTLET INSTALLED IN POKE-THROUGH
○	CATV OUTLET +18" A.F.F., U.O.N.
○	JUNCTION BOX
Ⓜ	AUDIO/VISUAL OUTLET +18" A.F.F., U.O.N.
Ⓜ	CLOCK
Ⓜ	FLOOR STANDING DATA RACK
Ⓜ	DOUBLE SIDED VERTICAL CABLE MANAGER
Ⓜ	LADDER RACK/ CABLE TRAY

WIRING SYMBOLS

1-1/4" C	CONDUIT SIZE
CONDUIT (UNDER SLAB OR FLOOR)	
~~~~~	FLEXIBLE CONNECTION
----->	CONDUIT, STUBBED & CAPPED

FIRE ALARM SYMBOLS

□	FIRE ALARM MANUAL PULL STATION, +48" A.F.F.
□	MAGNETIC DOOR HOLDER
□	SMOKE DETECTOR, DUCT, IONIZATION TYPE W/SAMPLING TUBE
□	SMOKE DETECTOR, DUCT, PHOTO TYPE W/SAMPLING TUBE
○	SMOKE DETECTOR, IONIZATION TYPE
○	SMOKE DETECTOR, PHOTO TYPE
⊙	HEAT DETECTOR, RATE-OF-RISE OR FIXED TEMP.
⊙	FIRE MAIN FLOW DETECTION SWITCH
⊙	FIRE MAIN TAMPER DETECTION SWITCH
⊙	FIRE ALARM BELL, +80" A.F.F., U.O.N.
⊙	FIRE ALARM HORN, +80" A.F.F.
⊙	FIRE ALARM HORN/STROBE, +80" TO 96" A.F.F.
⊙	FIRE ALARM STROBE, +80" TO 96" A.F.F.
⊙	FIRE ALARM INPUT MODULE
⊙	FIRE ALARM OUTPUT MODULE
⊙	FIRE ALARM CONTROL PANEL
⊙	FIRE ALARM REMOTE ANNUNCIATOR
⊙	STAND ALONE - RESIDENTIAL SMOKE DETECTOR 120V W/ BATTERY
⊙	CARBON MONOXIDE DETECTOR RESIDENTIAL 120V W/ BATTERY

NOTATIONS

①	DRAWING NOTE
2 E3	DETAIL REFERENCE: TOP=DETAIL NO., BOTTOM=SHEET NO.
FE 7	MECHANICAL EQUIPMENT MARK NO. (SEE EQUIPMENT SCHEDULE)
AAA	EQUIPMENT NO. (SEE EQUIPMENT SCHEDULE)

SECURITY SYMBOLS

□	CCTV CAMERA
Ⓜ	PTZ
Ⓜ	INTRUSION SENSOR ('X' INDICATES DEG. OF COVERAGE)
Ⓜ	GLASS BREAK SENSOR
Ⓜ	DOOR POSITION SENSOR
Ⓜ	KEYPAD +48" A.F.F.
Ⓜ	PROXIMITY CARD READER +48" A.F.F.
Ⓜ	ELECTRIC LATCH/LOCK
Ⓜ	REQUEST TO EXIT DEVICE

APPROX. CAMERA VIEW

PAGING AND  
INTERCOM SYMBOLS

Ⓜ	CEILING MOUNTED SPEAKER
Ⓜ	WALL MOUNTED SPEAKER
Ⓜ	INTERCOM CALL SWITCH
Ⓜ	SIGNAL BUZZER
Ⓜ	SIGNAL HORN
Ⓜ	VOLUME CONTROL +48" A.F.F.

Z01	HOMERUN TO EQUIPMENT
Z01	ZONE INDICATION
Z01	SPEAKER CONNECTION, NOT INDICATING CABLE PATH

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
APP.	APPROXIMATE
C	CONDUIT
C.O.	CONDUIT ONLY
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CLG	CEILING MOUNTED
(E)	EXISTING
FACP	FIRE ALARM CONTROL PANEL
FP	FACEPLATE
FS	FLOW SWITCH (SEE FIRE ALARM SYMBOLS)
FSD	FIRE/SMOKE DAMPER
GND	GROUND
I R	INFRARED
JB	JUNCTION BOX
N.I.C.	NOT IN CONTRACT
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
P.A.	PUBLIC ADDRESS
P.E.T.	PROTECTIVE ENTRANCE TERMINAL
SD	SMOKE DAMPER
TS	TAMPER SWITCH (SEE FIRE ALARM SYMBOLS)
TTB	TELEPHONE TERMINAL BOARD
TYP.	TYPICAL
U.G.	UNDERGROUND
U.O.N.	UNLESS OTHERWISE NOTED
W.G.	WIRE GUARD
W.P.	WEATHERPROOF
X.P.	EXPLOSION PROOF

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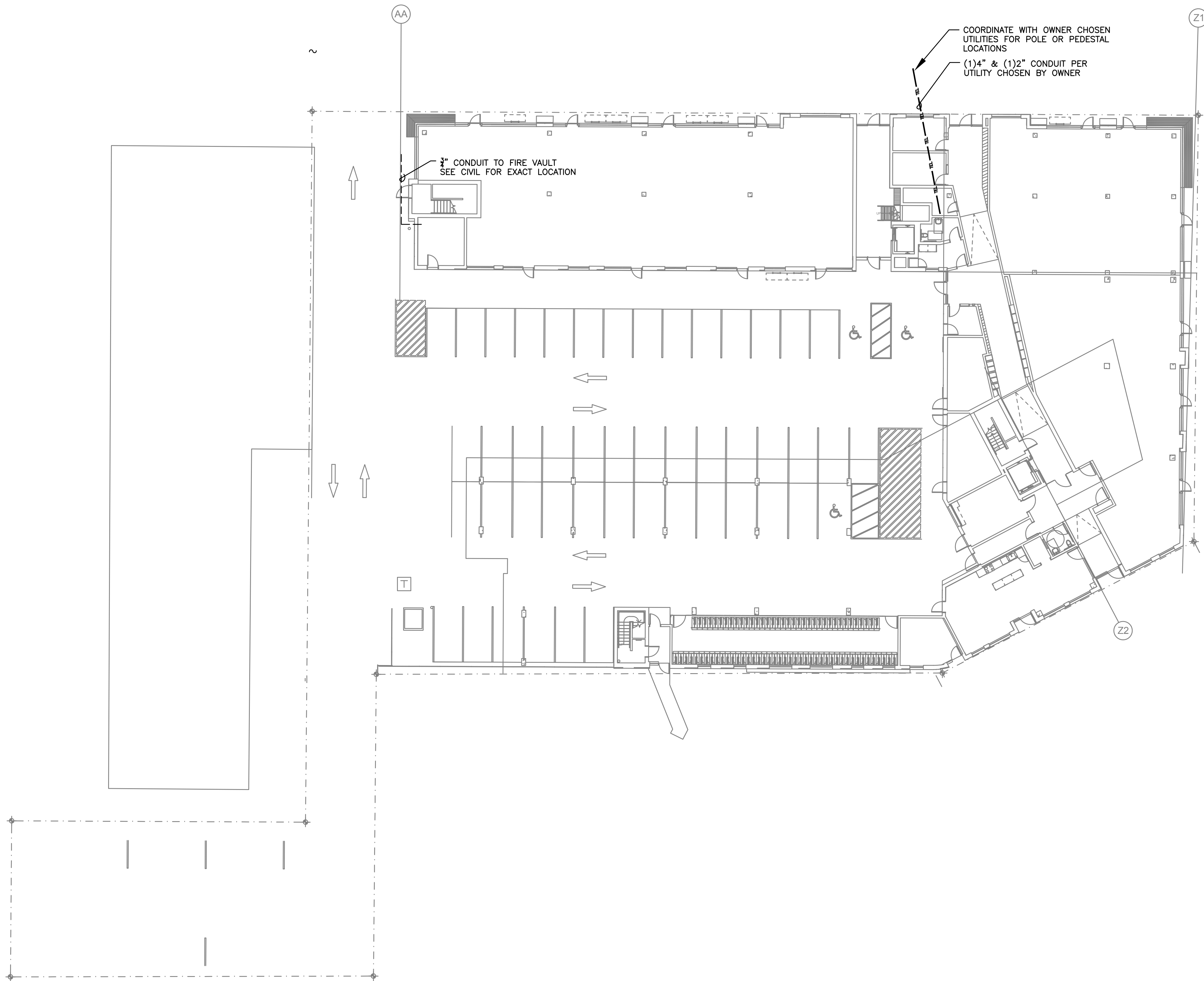
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**TELCOM  
SITE PLAN**

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**T1.00**



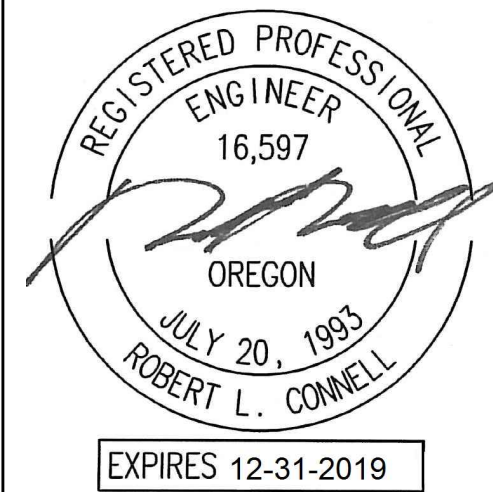
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1 SITE PLAN  
T1.00 1/16" = 1'-0"



## HALSEY 106

JOB NO. 17-067.00



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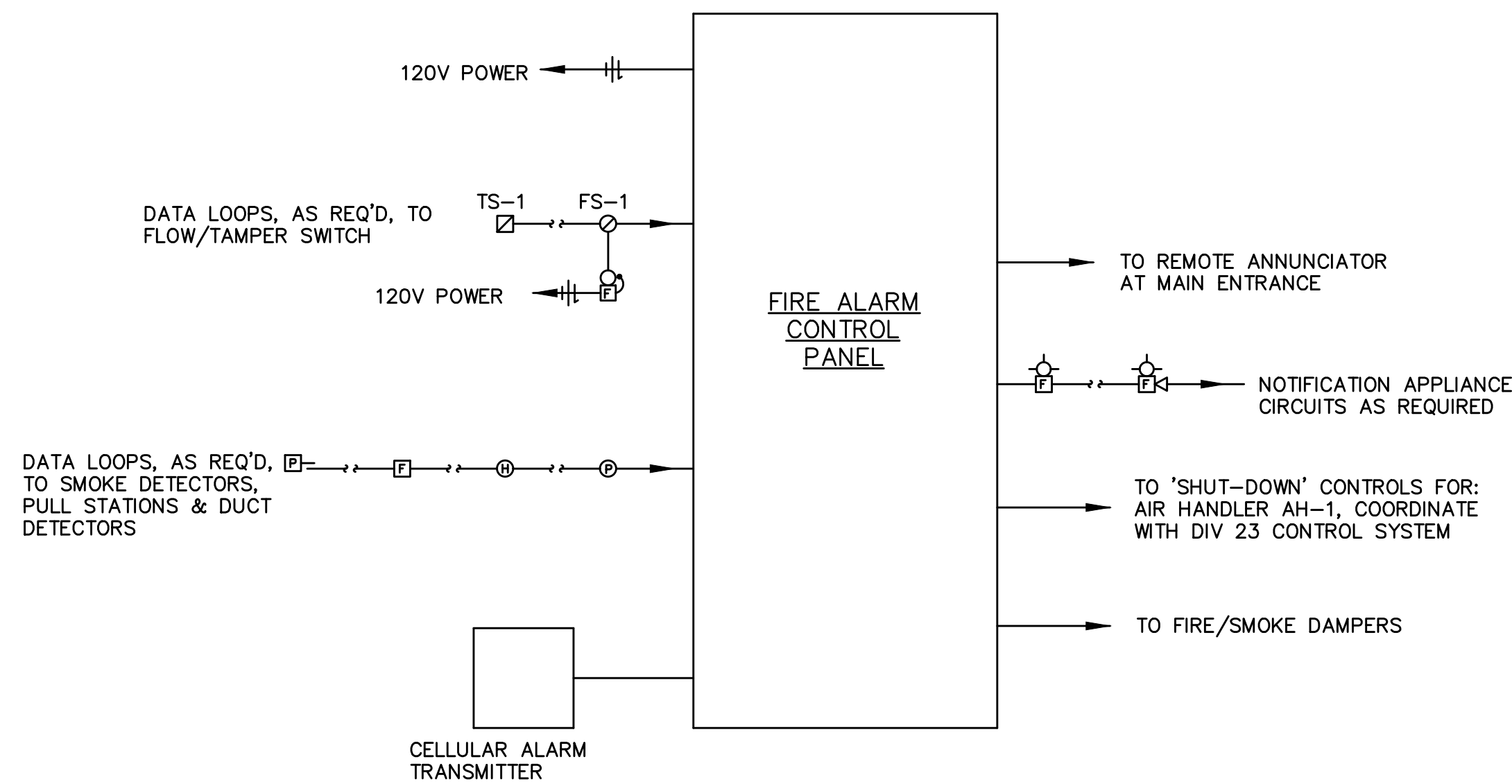
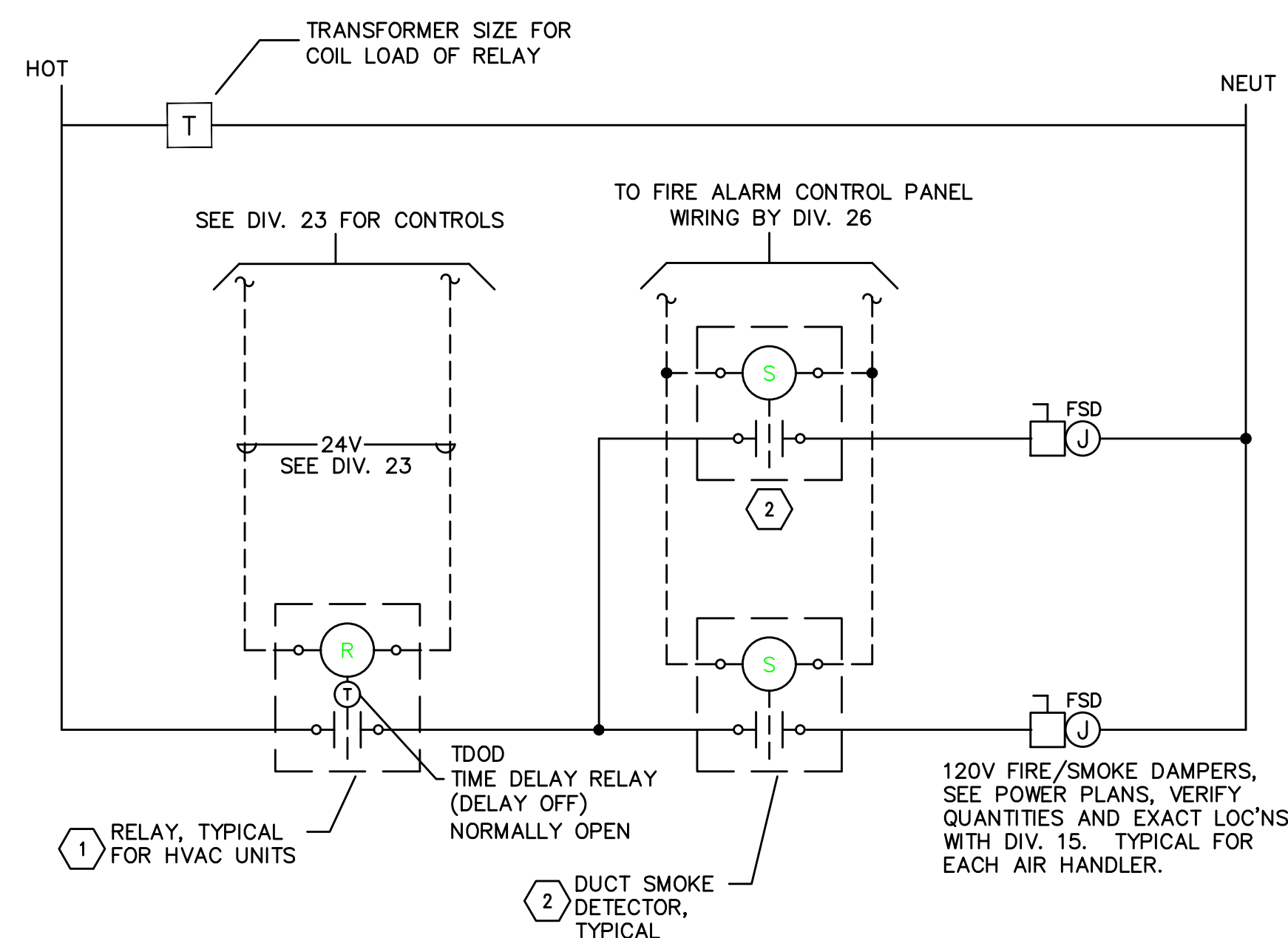
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FIRE ALARM  
ONE-LINE  
DIAGRAMS

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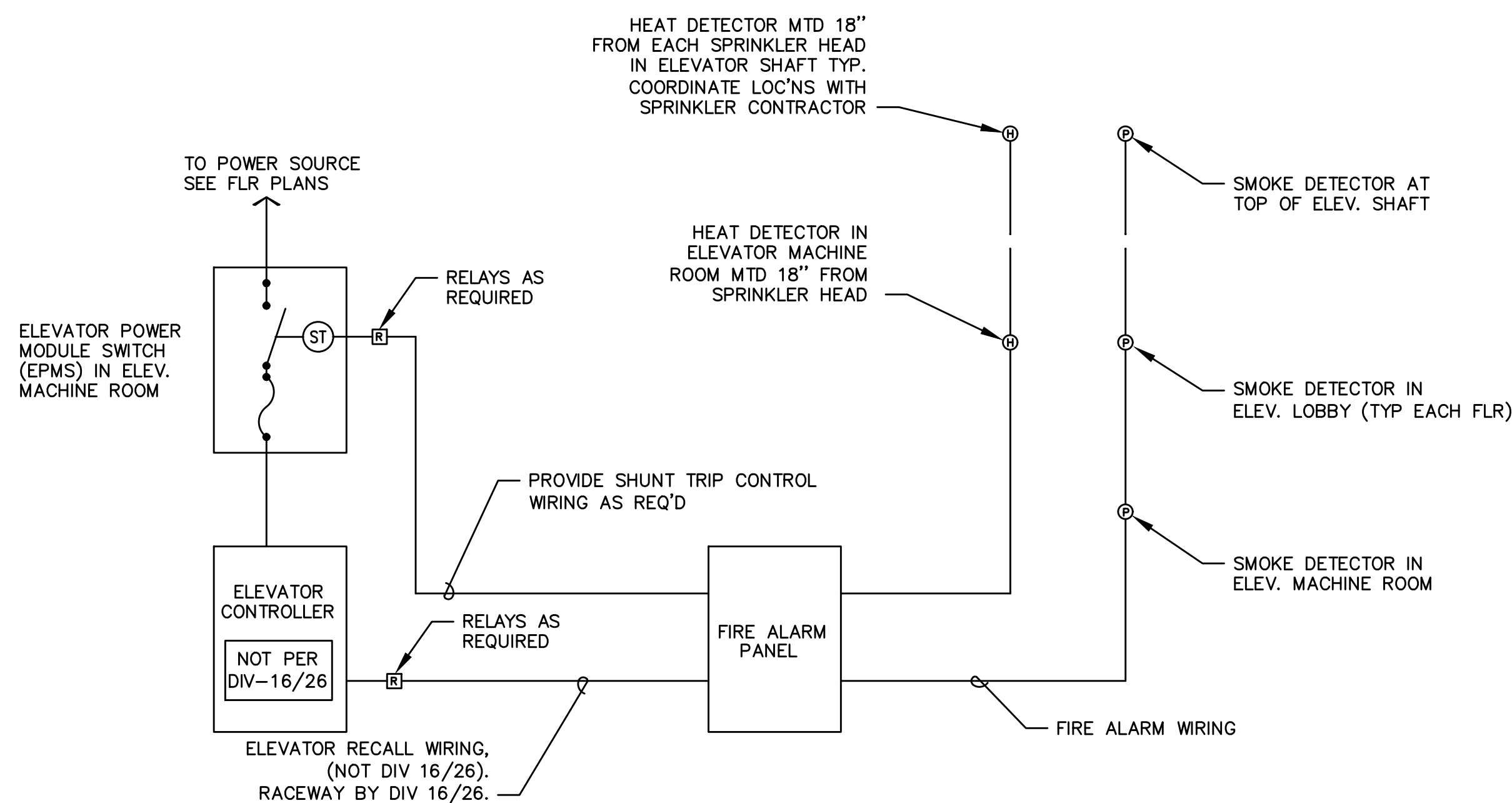
T2.00

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**1 FIRE ALARM DETAIL**  
T2.00 N.T.S.

## NOTES

- RELAY TO BE 'NORMALLY OPEN'. TDOD (TIME DELAY ON DE-ENERGY) SET FOR 15 SECONDS. RELAY TO CLOSE UPON SIGNAL FROM HVAC CONTROL SYSTEM (ALLOWS DAMPER TO OPEN); DAMPERS TO CLOSE ON DE-ENERGIZE AFTER 15 SEC. TIME-OUT. PROVIDE WITH 20A CONTACTS AND COIL VOLTAGE AS REQ'D BY HVAC CONTROL SYSTEM. EACH RELAY TO CONTROL FIRE/SMOKE DAMPERS ASSOCIATED WITH ITS RESPECTIVE AIR HANDLER. MOUNT RELAYS IN NEMA 1 ENCLOSURE ADJACENT TO HVAC CONTROL PANEL.
- DUCT SMOKE DETECTOR WITH AUXILIARY CONTACTS MOUNTED WITHIN 5 FT OF EACH FIRE/SMOKE DAMPER IN ACCORDANCE WITH U.B.C. 713.10. 20A RATED AUXILIARY CONTACTS TO BE 'NORMALLY ENERGIZED' TO KEEP DAMPER IN OPEN POSITION, DAMPERS TO CLOSE WHEN CONTACTS ARE DE-ENERGIZED.

**3 FIRE/SMOKE DAMPER DETAIL**  
T2.00 N.T.S.

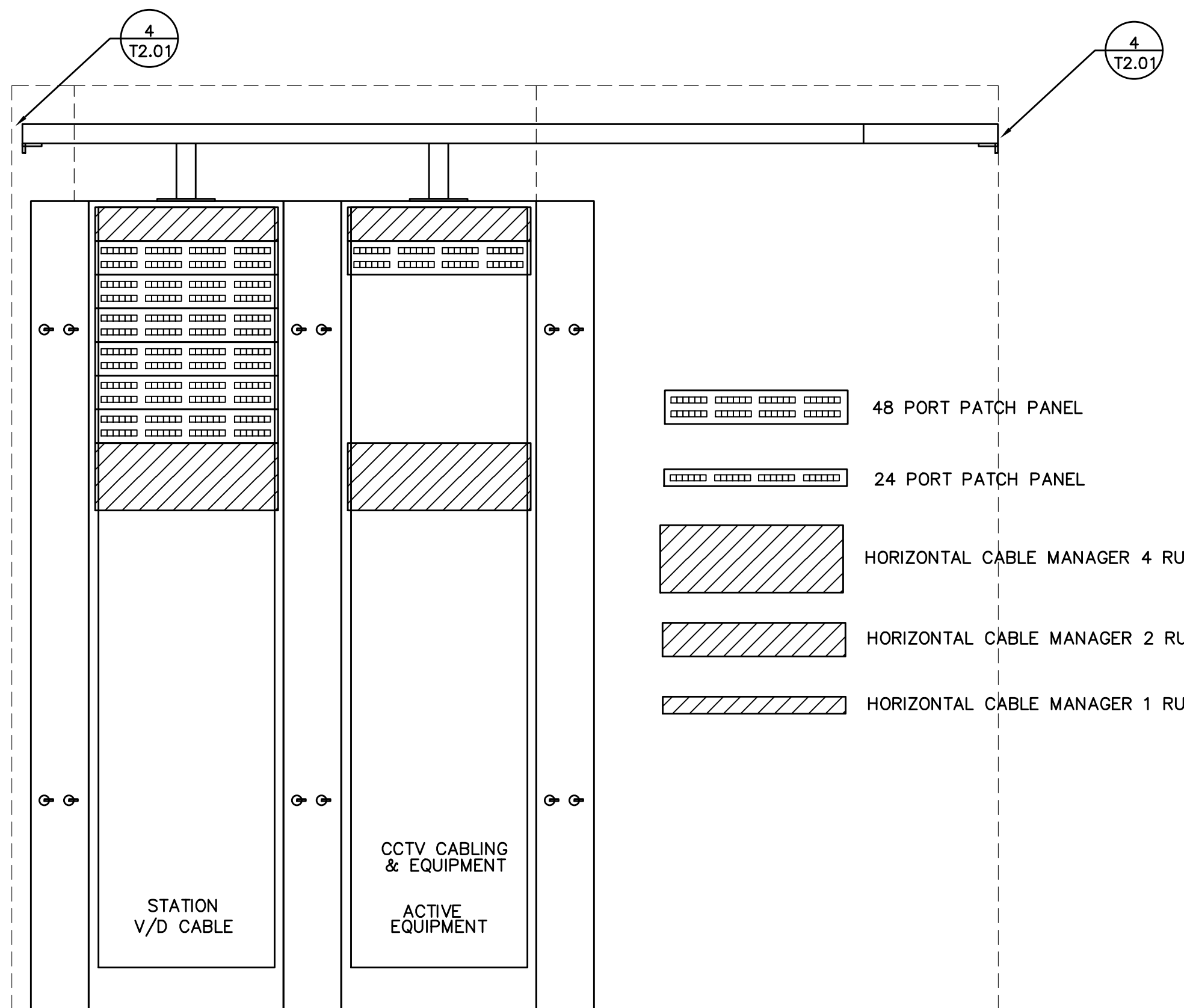
## NOTES

- 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.

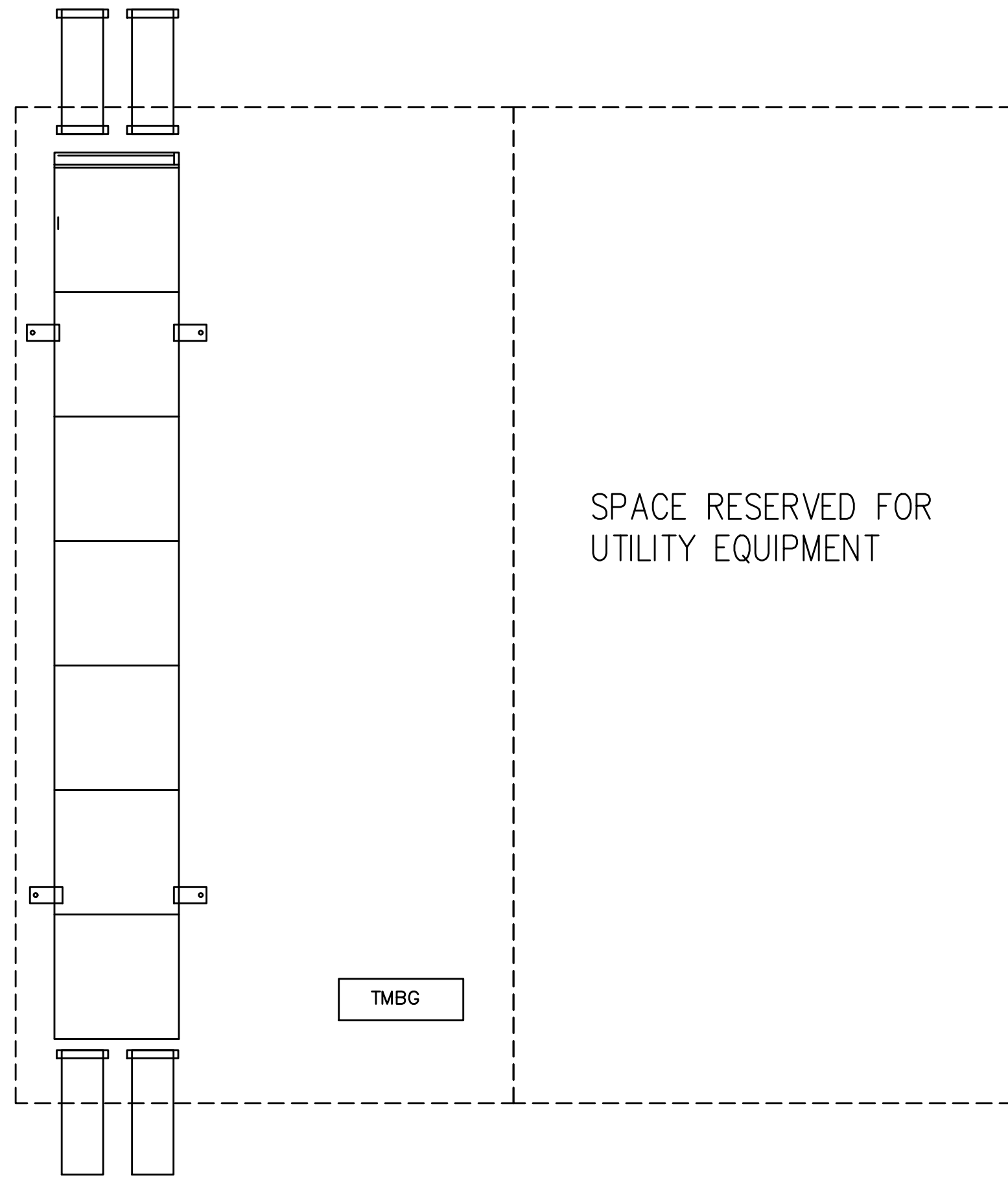
**2 ELEVATOR RECALL & AUTO DISCONNECT DETAIL**  
T2.00 N.T.S.

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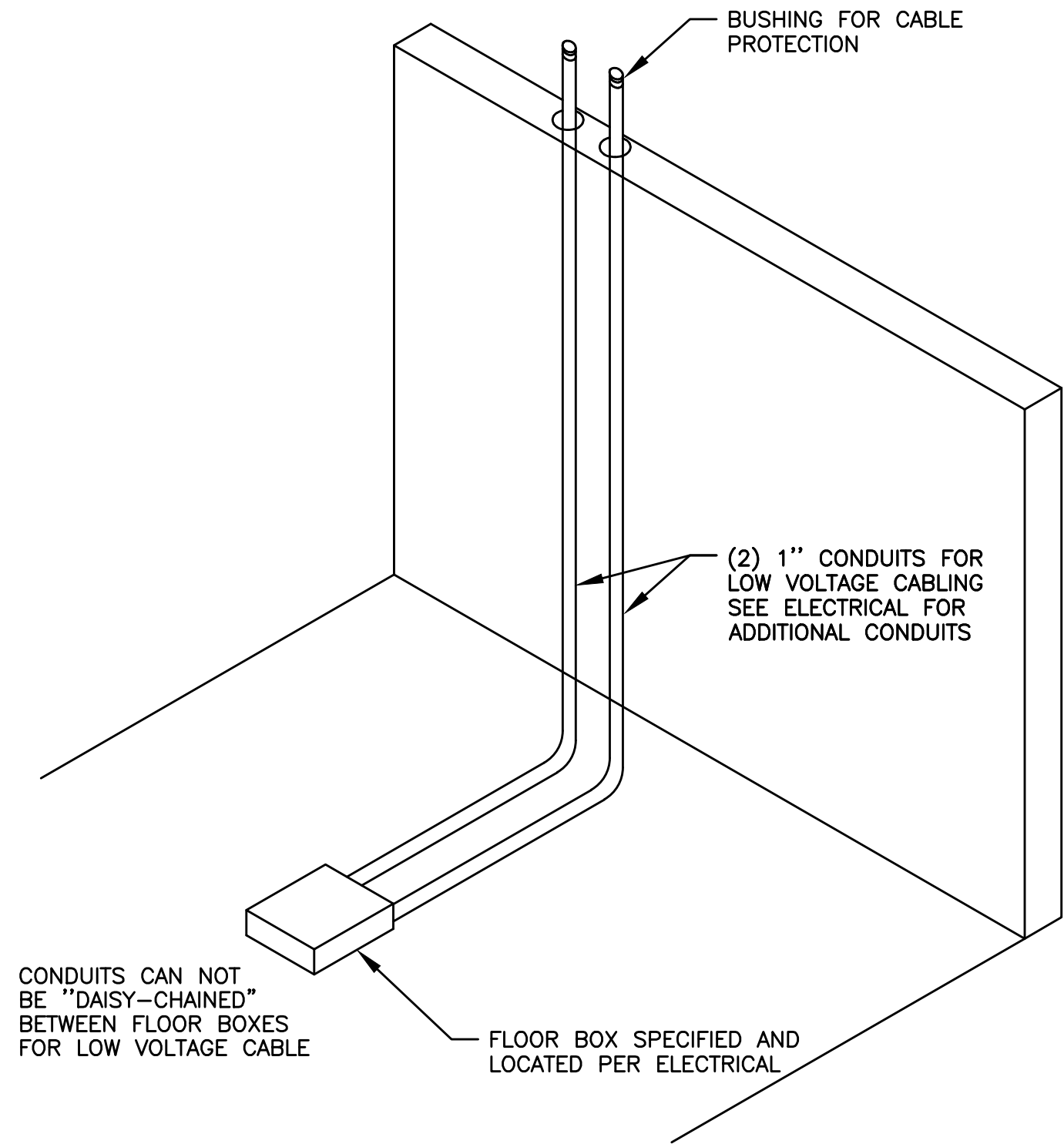




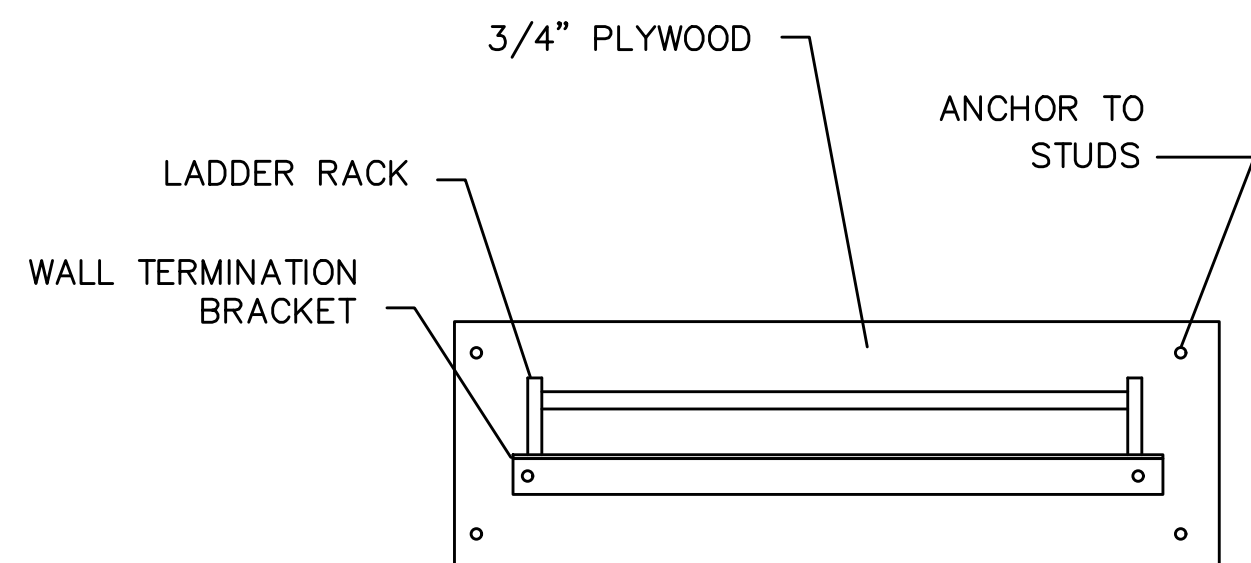
1 DATA RACK ELEVATION  
T2.01 N.T.S.



2 UTILITY ROOM DETAIL  
T2.01 N.T.S.



3 FLOOR BOX CONDUIT DETAIL  
T2.01 N.T.S.



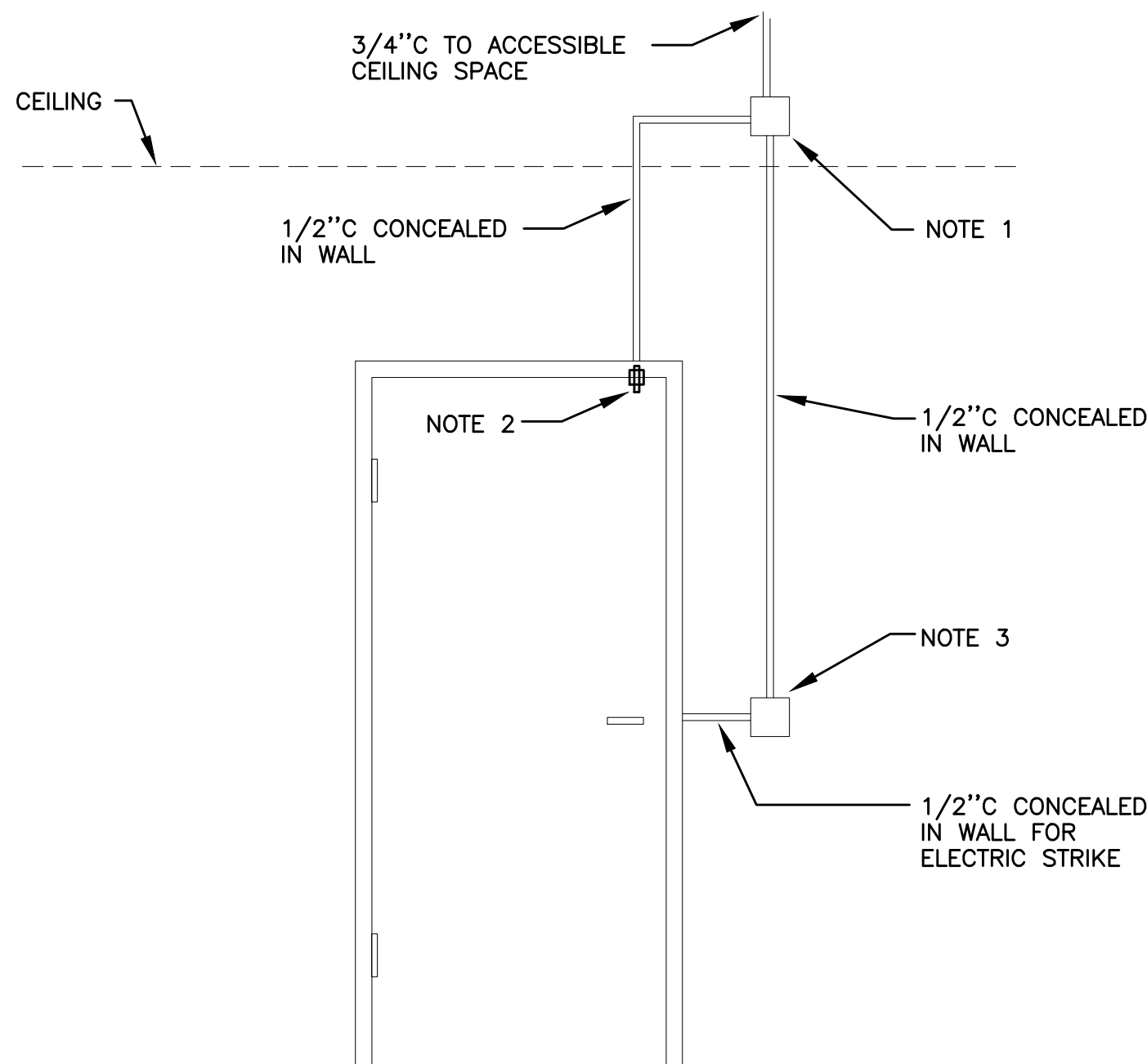
4 LADDER RACK TERMINATION DETAIL  
T2.01 N.T.S.

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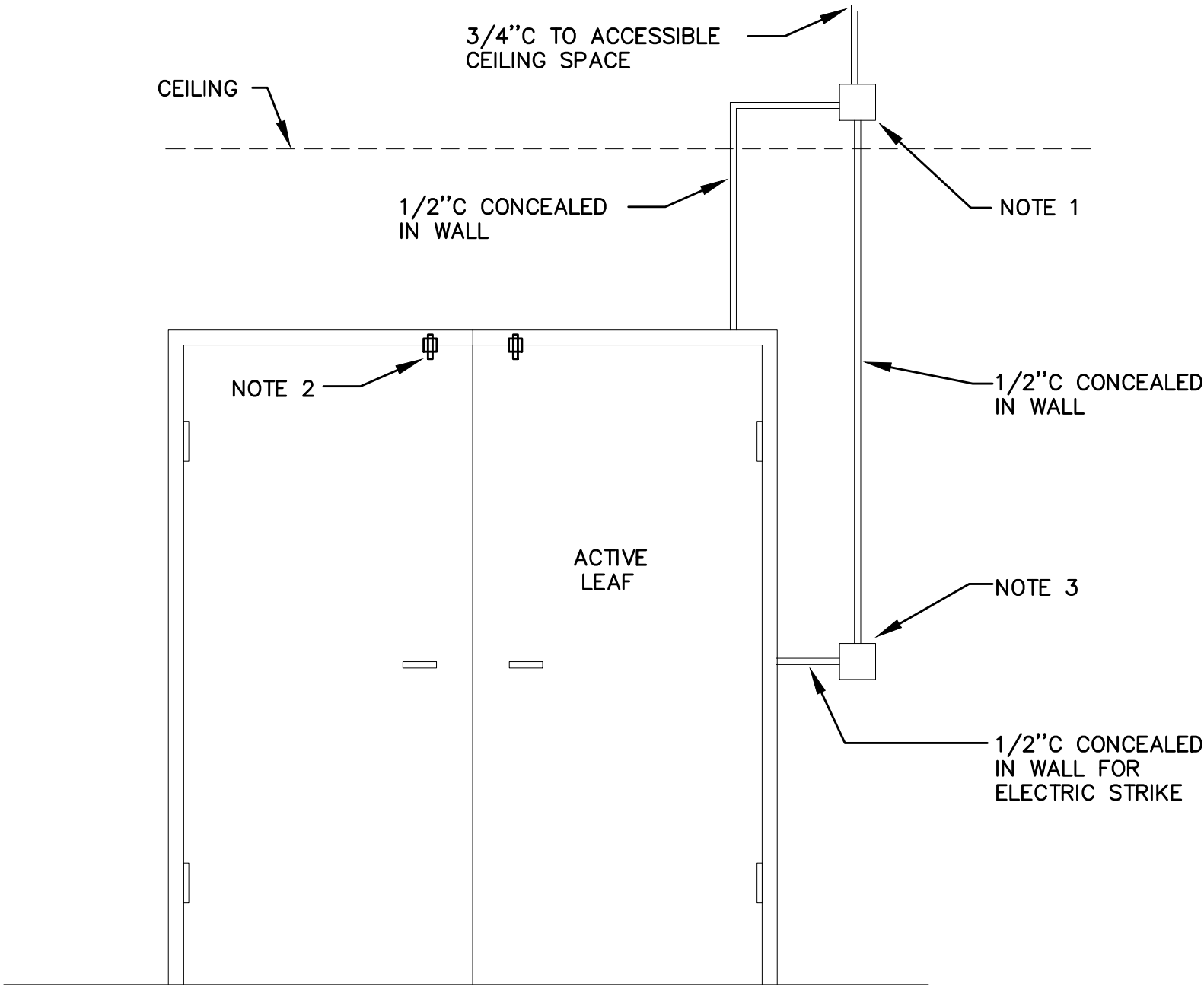


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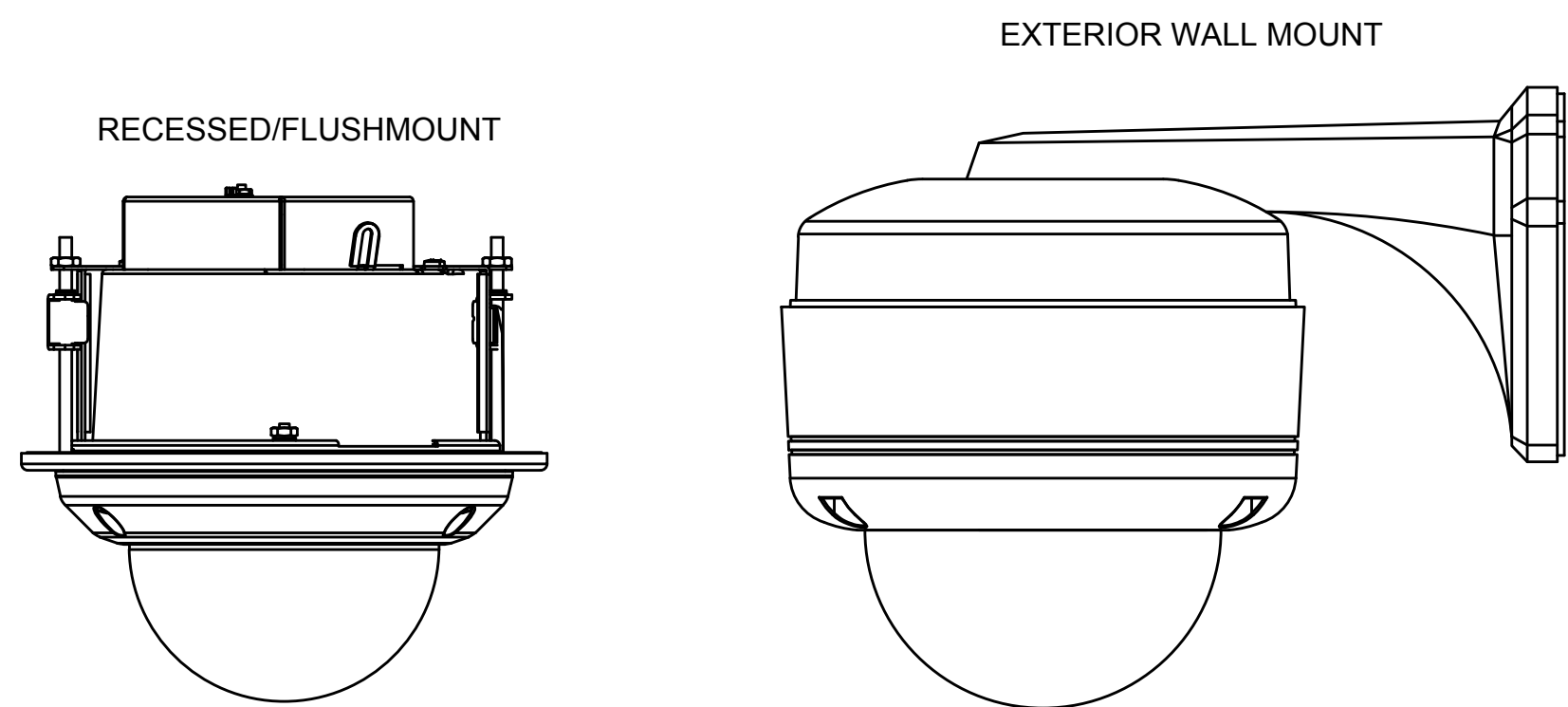
- SECURITY ROUGH-IN NOTES**
1. 4 SQUARE J-BOX @ 0'-6" ABOVE FINISHED CEILING, VERIFY WITH ARCHITECT.
  2. DOOR STATUS CONTACT, ONLY NEEDED WHEN STRIKE DOES NOT HAVE INTEGRAL SWITCH.
  3. DBL GANG BOX, PROVIDE SNGL GANG REDUCER RING IF NEEDED BY SECURITY DEVICE. COORDINATE WITH ARCHITECT TO MEET ADA REQUIREMENTS.

**1** SINGLE DOOR ACCESS CONTROL DETAIL  
T2.02 N.T.S.



- SECURITY ROUGH-IN NOTES**
1. 4 SQUARE J-BOX @ 0'-6" ABOVE FINISHED CEILING, VERIFY WITH ARCHITECT.
  2. DOOR STATUS CONTACT, ONLY NEEDED WHEN STRIKE DOES NOT HAVE INTEGRAL SWITCH.
  3. DBL GANG BOX, PROVIDE SNGL GANG REDUCER RING IF NEEDED BY SECURITY DEVICE. COORDINATE WITH ARCHITECT TO MEET ADA REQUIREMENTS.

**2** DOUBLE DOOR ACCESS CONTROL DETAIL  
T2.02 N.T.S.



**3** CCTV CAMERA MOUNT  
T2.02 N.T.S.

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**TELCOM  
DETAILS**

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**T2.02**

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## HALSEY 106

JOB NO. 17-067.00



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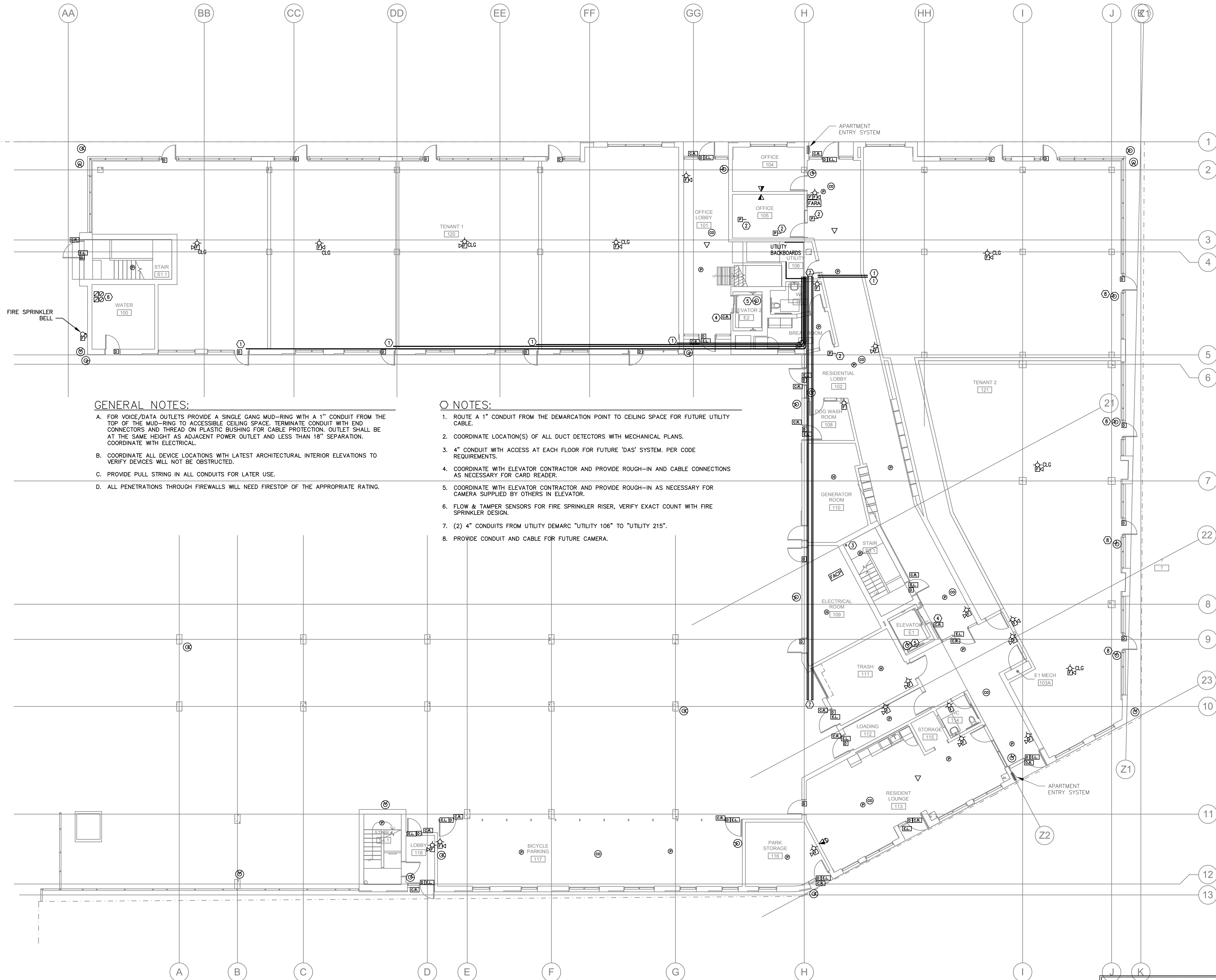
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FLOOR PLAN  
LEVEL 1

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T3.01

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## GENERAL NOTES:

- FOR VOICE/DATA OUTLETS 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.
- COORDINATE ALL DEVICE LOCATIONS WITH LATEST ARCHITECTURAL INTERIOR ELEVATIONS TO VERIFY DEVICES WILL NOT BE OBSTRUCTED.
- PROVIDE PULL STRING IN ALL CONDUITS FOR LATER USE.
- ALL PENETRATIONS THROUGH FIREWALLS WILL NEED FIRESTOP OF THE APPROPRIATE RATING.

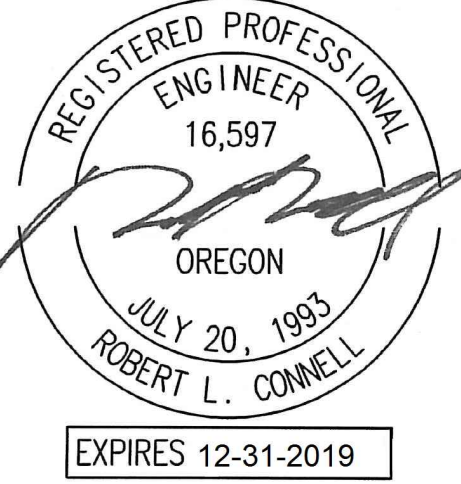
## NOTES:

- ROUTE A 1" CONDUIT FROM THE DEMARCATION POINT TO CEILING SPACE FOR FUTURE UTILITY CABLE.
- COORDINATE LOCATION(S) OF ALL DUCT DETECTORS WITH MECHANICAL PLANS.
- 4" CONDUIT WITH ACCESS AT EACH FLOOR FOR FUTURE 'DAS' SYSTEM. PER CODE REQUIREMENTS.
- COORDINATE WITH ELEVATOR CONTRACTOR AND PROVIDE ROUGH-IN AND CABLE CONNECTIONS AS NECESSARY FOR CARD READER.
- COORDINATE WITH ELEVATOR CONTRACTOR AND PROVIDE ROUGH-IN AS NECESSARY FOR CAMERA SUPPLIED BY OTHERS IN ELEVATOR.
- FLOW & TAMPER SENSORS FOR FIRE SPRINKLER RISER, VERIFY EXACT COUNT WITH FIRE SPRINKLER DESIGN.
- (2) 4" CONDUITS FROM UTILITY DEMARC "UTILITY 106" TO "UTILITY 215".
- PROVIDE CONDUIT AND CABLE FOR FUTURE CAMERA.

1 FLOOR PLAN - LEVEL 1  
T3.01 1/8" = 1'-0"

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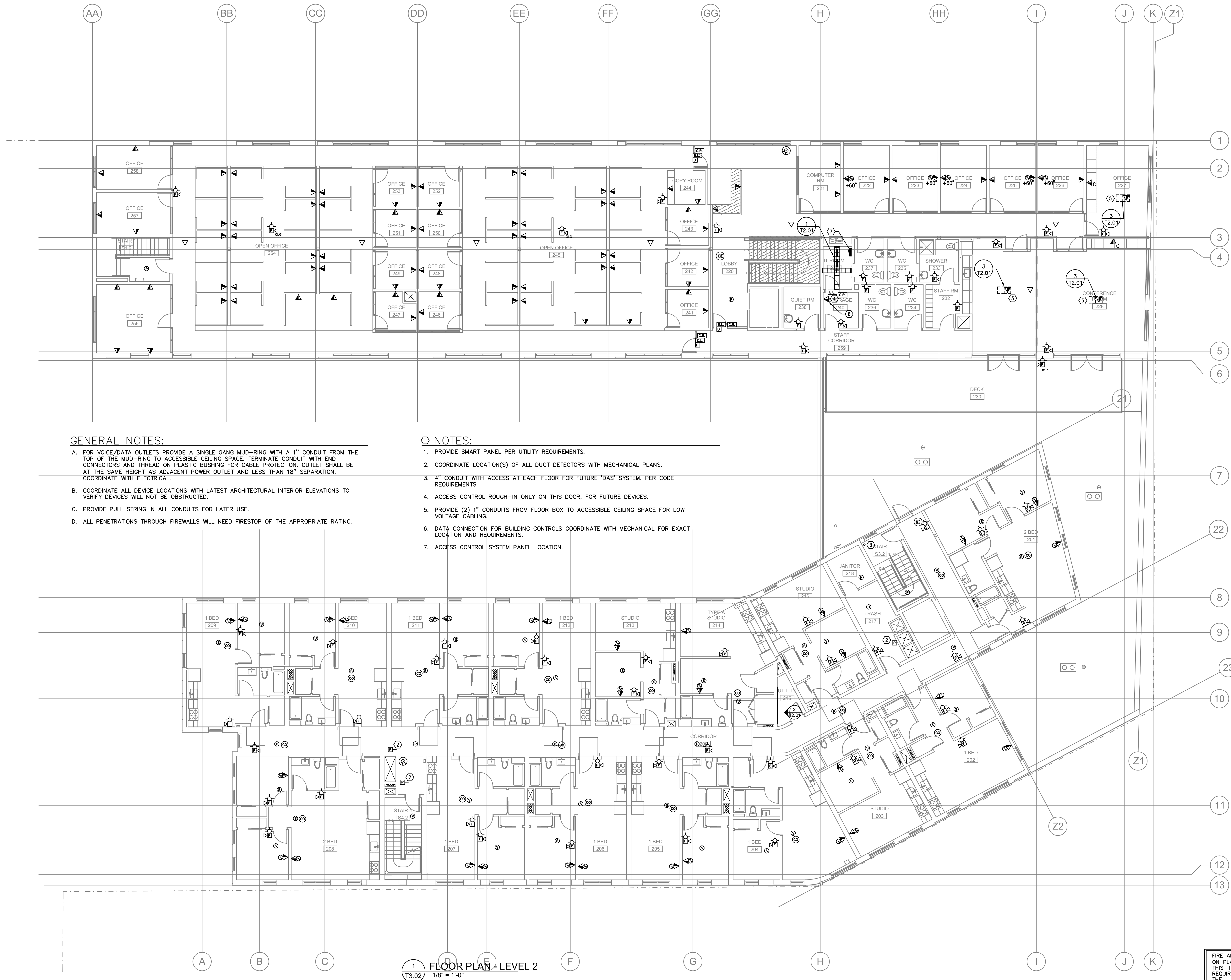
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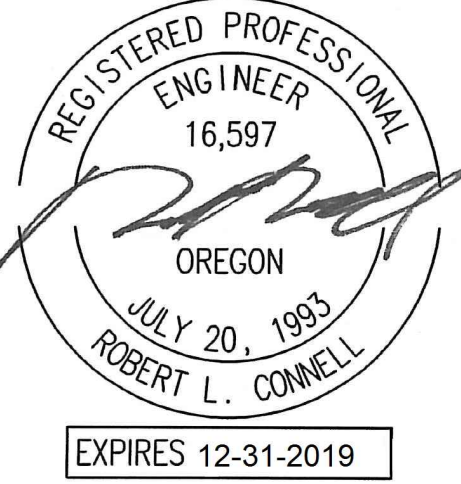
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FLOOR PLAN  
LEVEL 2  
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T3.02







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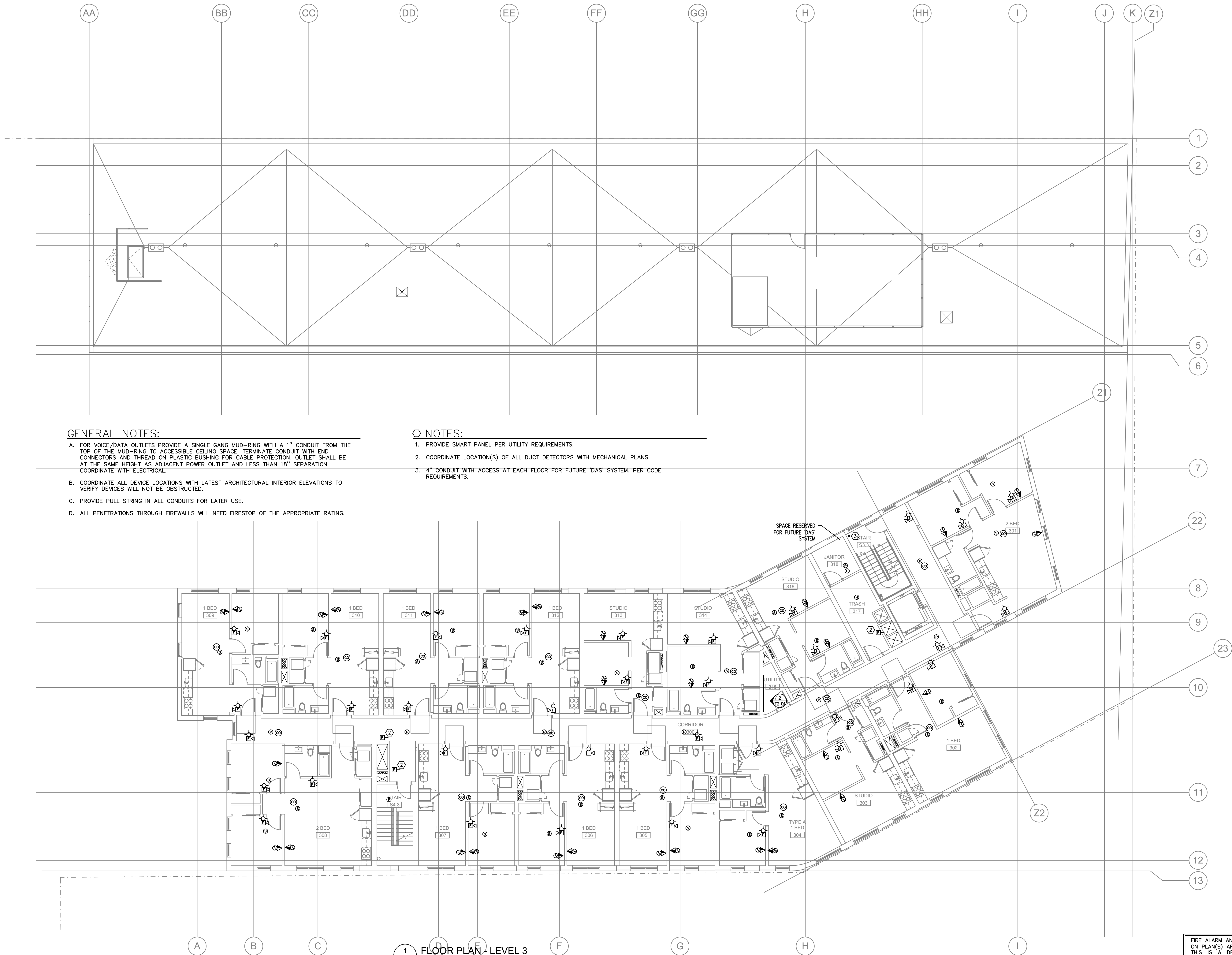
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FLOOR PLAN  
LEVELS 3-6

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T3.03



GENERAL NOTES:

- FOR VOICE/DATA OUTLETS 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.
- COORDINATE ALL DEVICE LOCATIONS WITH LATEST ARCHITECTURAL INTERIOR ELEVATIONS TO VERIFY DEVICES WILL NOT BE OBSTRUCTED.
- PROVIDE PULL STRING IN ALL CONDUITS FOR LATER USE.
- ALL PENETRATIONS THROUGH FIREWALLS WILL NEED FIRESTOP OF THE APPROPRIATE RATING.

NOTES:

- PROVIDE SMART PANEL PER UTILITY REQUIREMENTS.
- COORDINATE LOCATION(S) OF ALL DUCT DETECTORS WITH MECHANICAL PLANS.
- 4" CONDUIT WITH ACCESS AT EACH FLOOR FOR FUTURE "DAS" SYSTEM. PER CODE REQUIREMENTS.





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FLOOR PLAN  
LEVEL 4

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T3.04

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AA

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- COORDINATE ALL DEVICE LOCATIONS WITH LATEST ARCHITECTURAL INTERIOR ELEVATIONS TO VERIFY DEVICES WILL NOT BE OBSTRUCTED.
- PROVIDE PULL STRING IN ALL CONDUITS FOR LATER USE.
- ALL PENETRATIONS THROUGH FIREWALLS WILL NEED FIRESTOP OF THE APPROPRIATE RATING.

NOTES:

- PROVIDE SMART PANEL PER UTILITY REQUIREMENTS.
- COORDINATE LOCATION(S) OF ALL DUCT DETECTORS WITH MECHANICAL PLANS.
- 4" CONDUIT WITH ACCESS AT EACH FLOOR FOR FUTURE "DAS" SYSTEM. PER CODE REQUIREMENTS.

1  
T3.04  
FLOOR PLAN - LEVEL 4  
1/8" = 1'-0"





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FLOOR PLAN  
LEVEL 5

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T3.05

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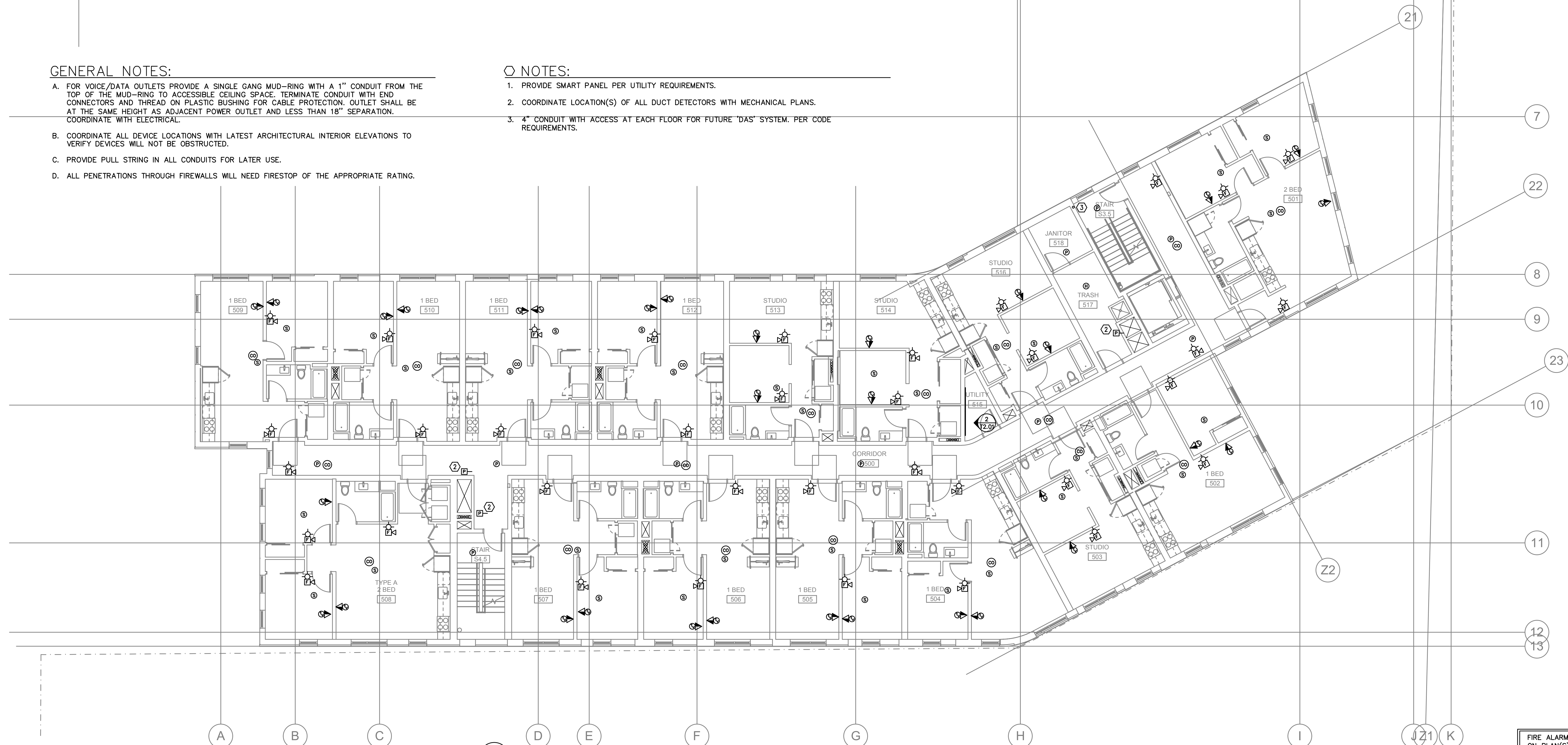
AA

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- FOR VOICE/DATA OUTLETS 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.
- COORDINATE ALL DEVICE LOCATIONS WITH LATEST ARCHITECTURAL INTERIOR ELEVATIONS TO VERIFY DEVICES WILL NOT BE OBSTRUCTED.
- PROVIDE PULL STRING IN ALL CONDUITS FOR LATER USE.
- ALL PENETRATIONS THROUGH FIREWALLS WILL NEED FIRESTOP OF THE APPROPRIATE RATING.

NOTES:

- PROVIDE SMART PANEL PER UTILITY REQUIREMENTS.
- COORDINATE LOCATION(S) OF ALL DUCT DETECTORS WITH MECHANICAL PLANS.
- 4" CONDUIT WITH ACCESS AT EACH FLOOR FOR FUTURE "DAS" SYSTEM. PER CODE REQUIREMENTS.



1 FLOOR PLAN - LEVEL 5  
T3.05 1/8" = 1'-0"





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FLOOR PLAN  
LEVEL 6

sheet:

T3.06

FIRE ALARM AND DETECTION SYSTEM SHOWN ON PLAN(S) ARE FOR DESIGN INTENT ONLY. THIS IS A DEFERRED SUBMITTAL SYSTEM REQUIRING THE CONTRACTOR TO COMPLETE THE PERMIT READY DESIGN AND CALCULATIONS AS REQUIRED PER THE AUTHORITY HAVING JURISDICTION. VERIFY BUILDING OCCUPANCY TYPE AND OCCUPANT LOAD WITH ARCHITECTURAL PLANS.

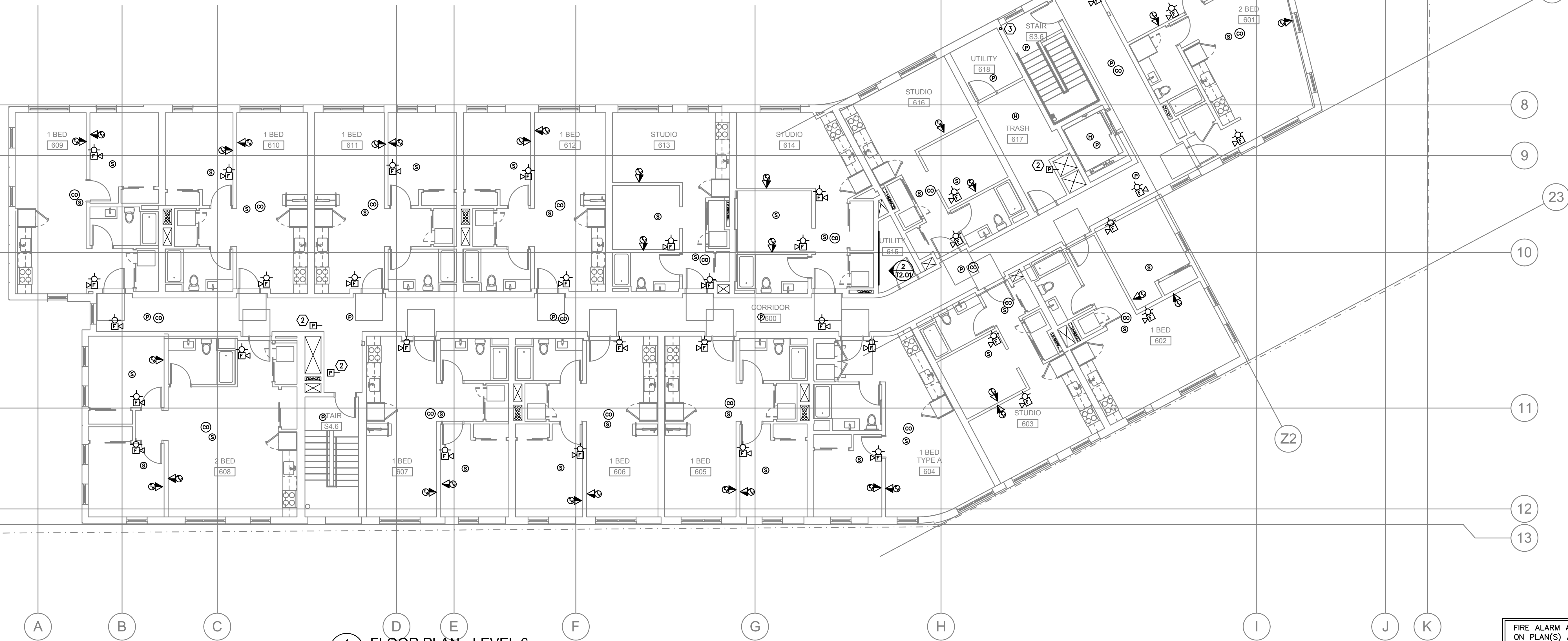
AA

GENERAL NOTES:

- FOR VOICE/DATA OUTLETS 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.
- COORDINATE ALL DEVICE LOCATIONS WITH LATEST ARCHITECTURAL INTERIOR ELEVATIONS TO VERIFY DEVICES WILL NOT BE OBSTRUCTED.
- PROVIDE PULL STRING IN ALL CONDUITS FOR LATER USE.
- ALL PENETRATIONS THROUGH FIREWALLS WILL NEED FIRESTOP OF THE APPROPRIATE RATING.

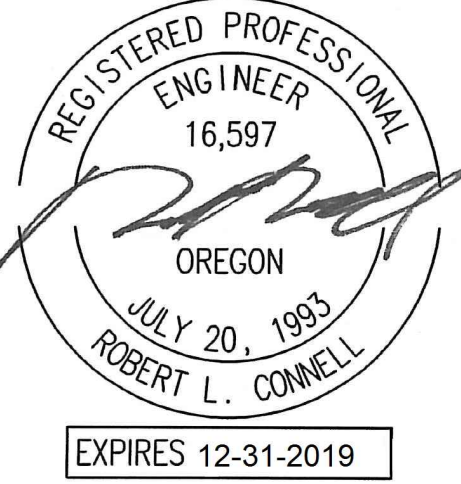
NOTES:

- PROVIDE SMART PANEL PER UTILITY REQUIREMENTS.
- COORDINATE LOCATION(S) OF ALL DUCT DETECTORS WITH MECHANICAL PLANS.
- 4" CONDUIT WITH ACCESS AT EACH FLOOR FOR FUTURE "DAS" SYSTEM. PER CODE REQUIREMENTS.



1 FLOOR PLAN - LEVEL 6  
T3.06 1/8" = 1'-0"





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PRELIMINARY - NOT  
FOR CONSTRUCTION

PERMIT SET

09.17.2018	date:
50% DD	04.30.2018
100% DD	06.19.2018
50% CD	08.03.2018
PERMIT	09.17.2018

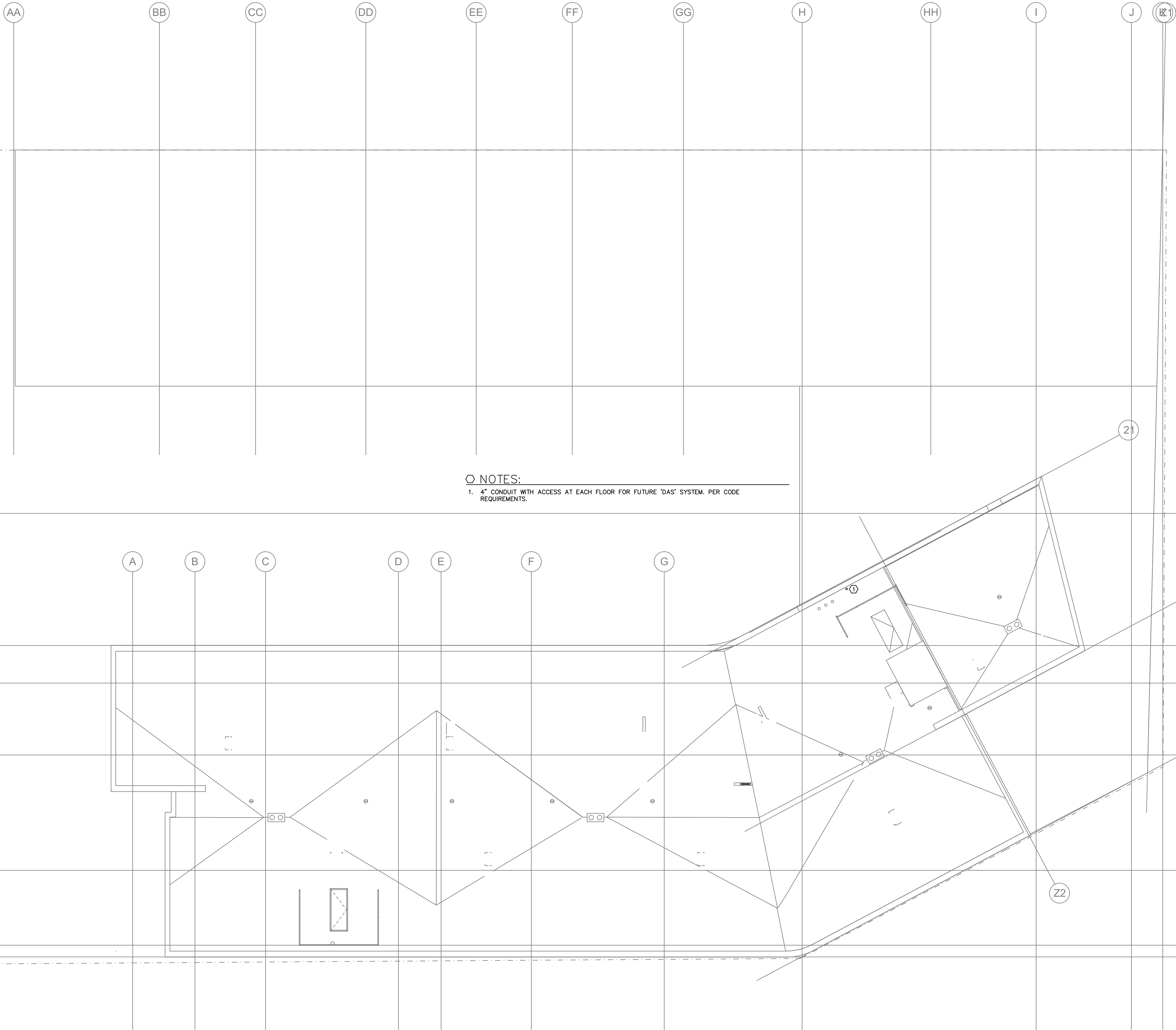
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ROOF PLAN

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T3.07



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1 ROOF PLAN  
T3.07 1/8" = 1'-0"