

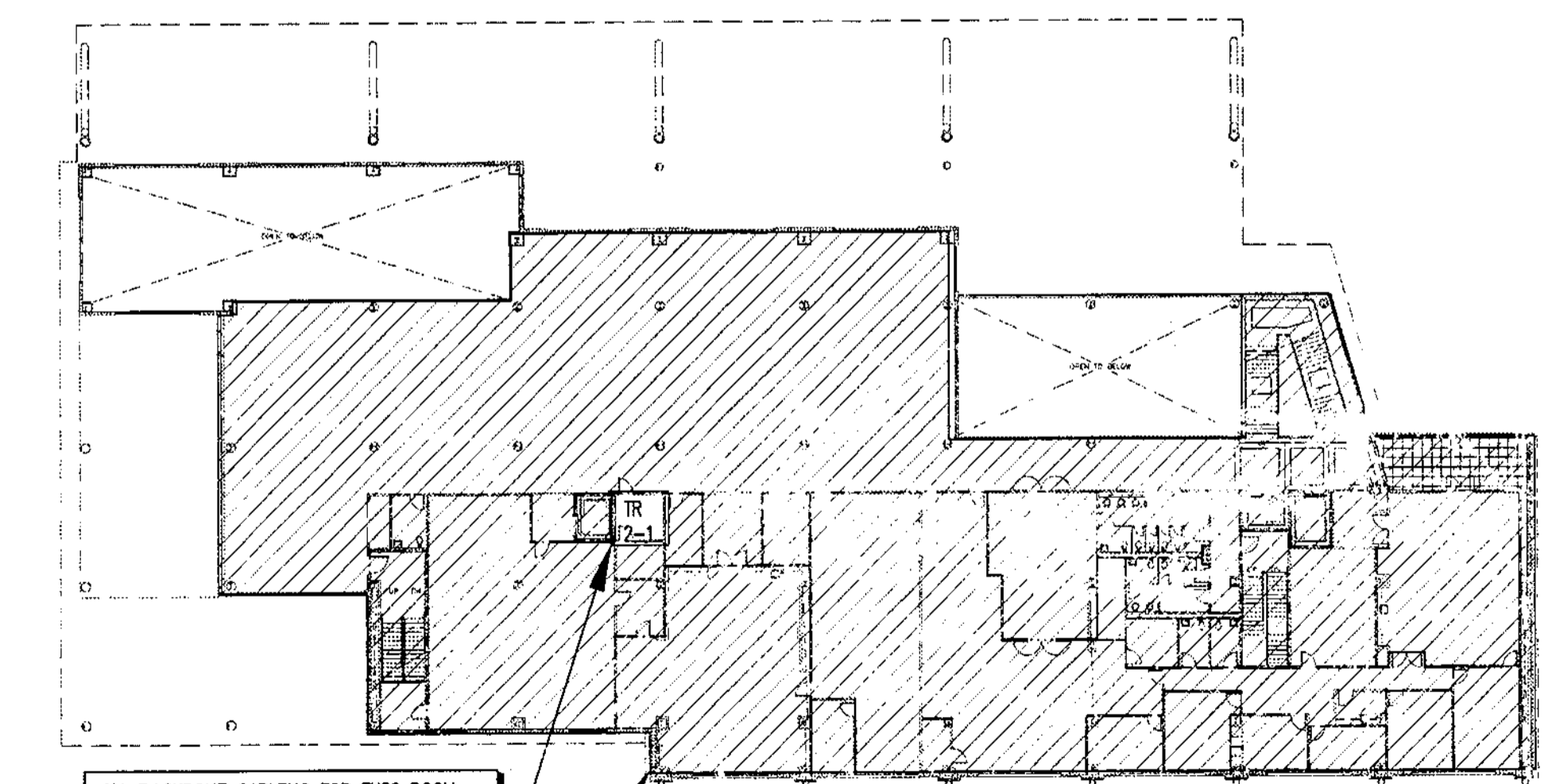
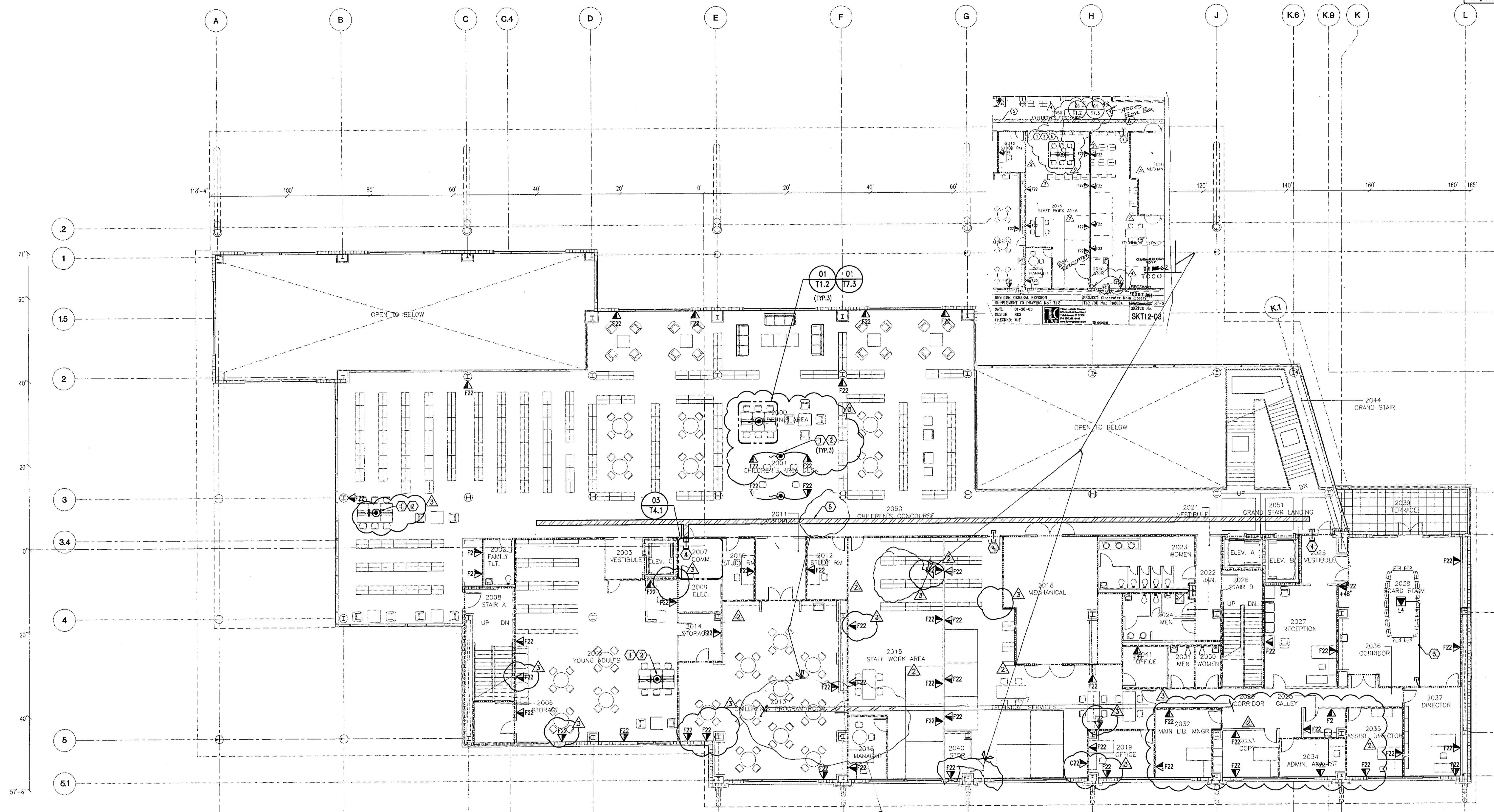
**Project #:** N/A

**Project Name:** CITY OF CLEARWATER, CLEARWATER MAIN  
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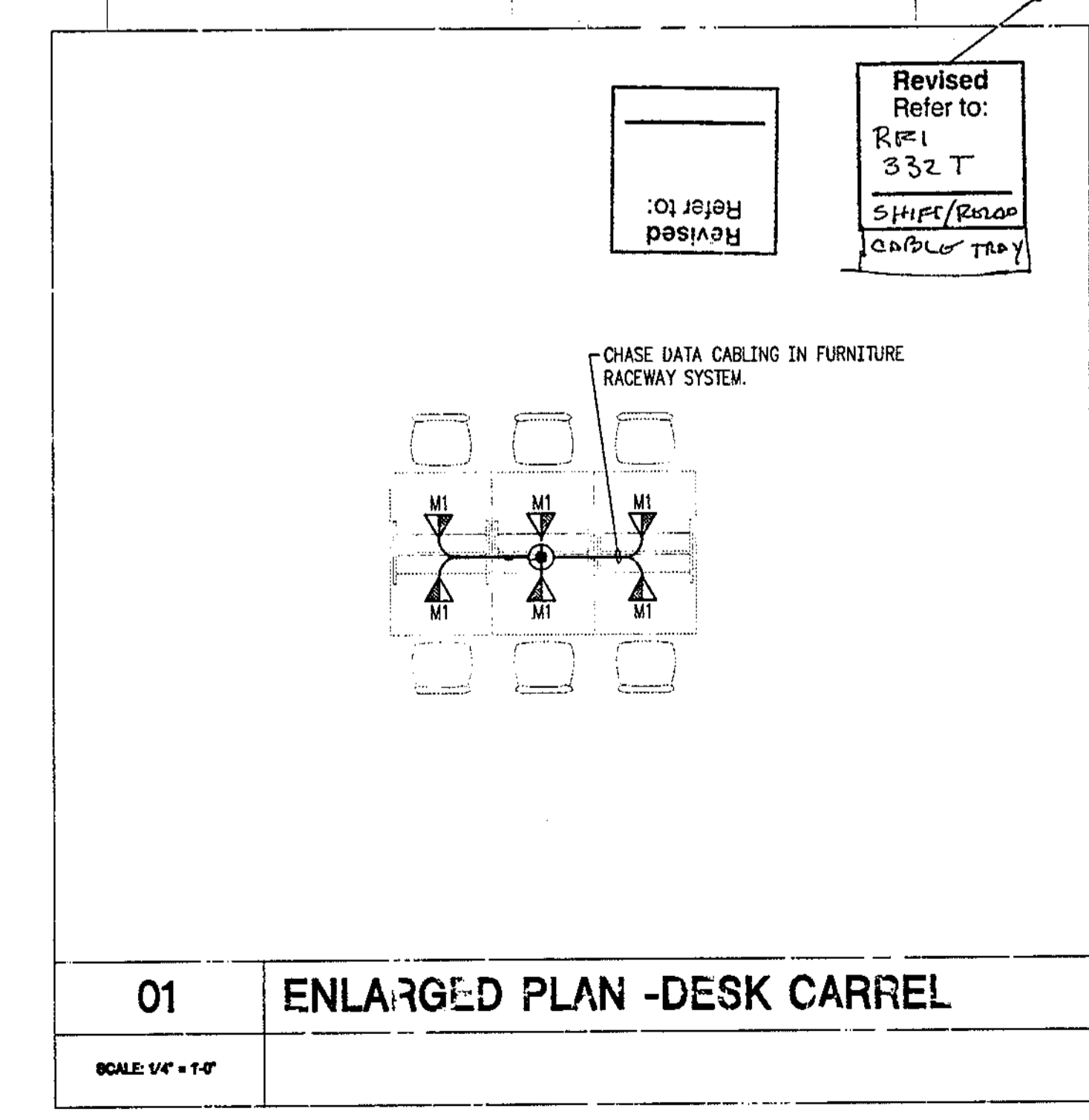
**Job #:** 2002118

**Consultant:** Havard, Jolly, Clees, Toppe Architects

**Comments:** CD in CD cabinet, CD #2006-19, CAD files



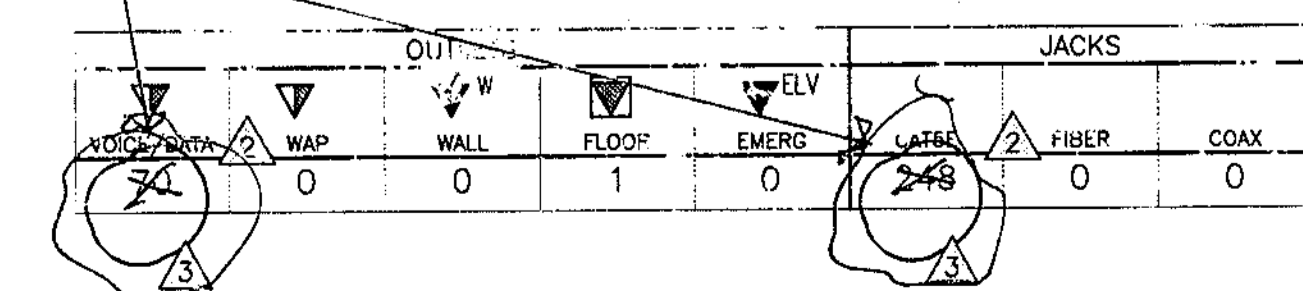
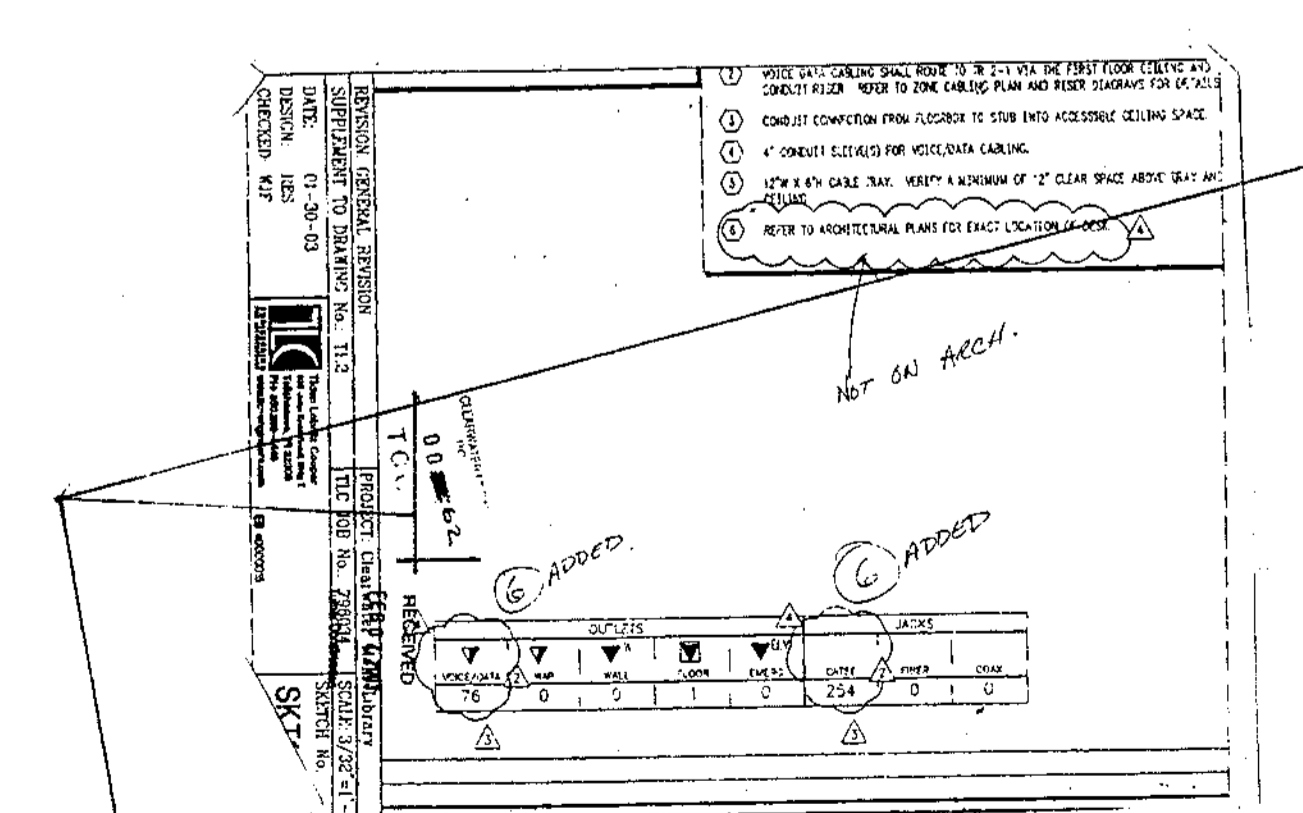
SECOND FLOOR - ZONE PLAN - COMMUNICATIONS



01 ENLARGED PLAN - DESK CARREL

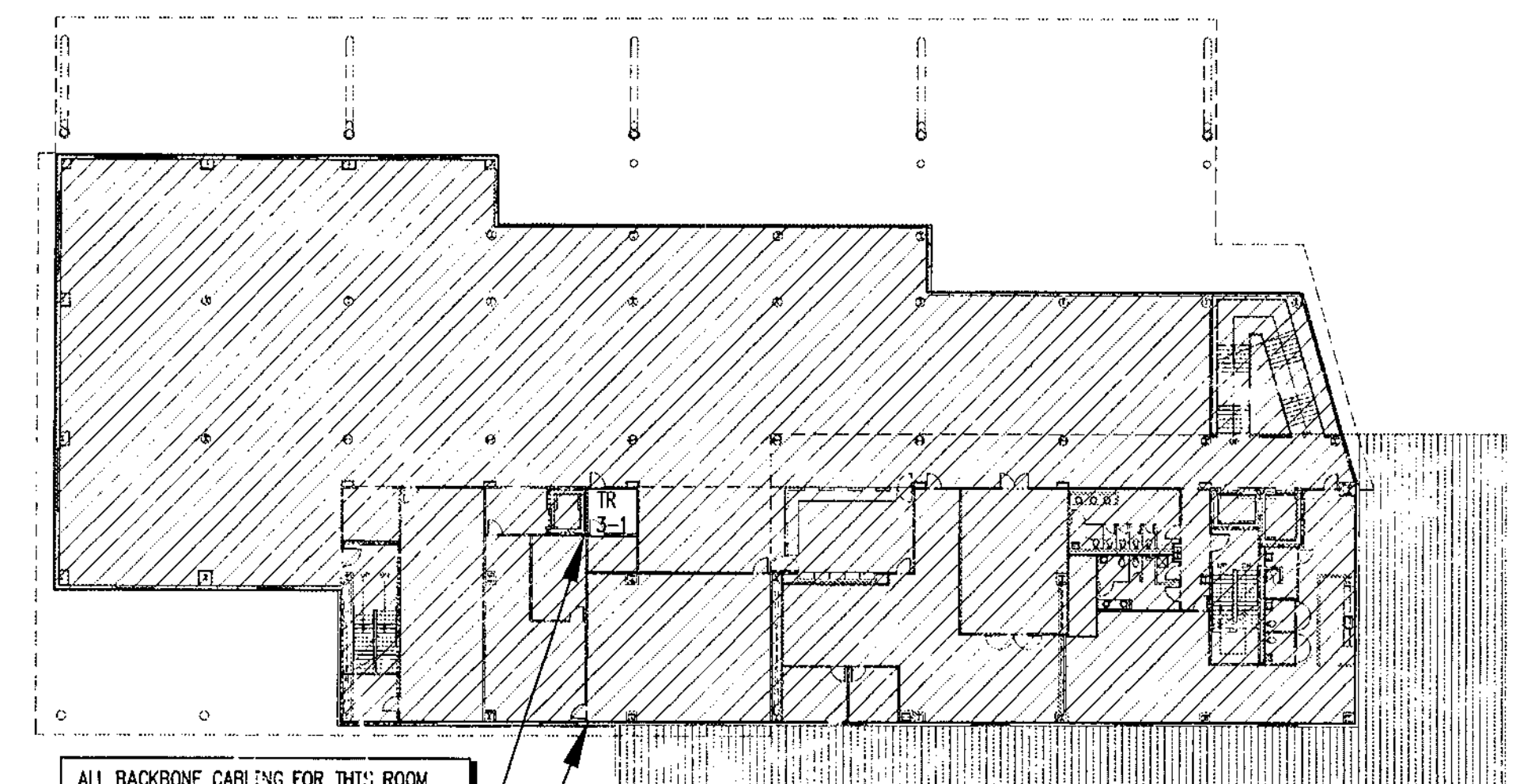
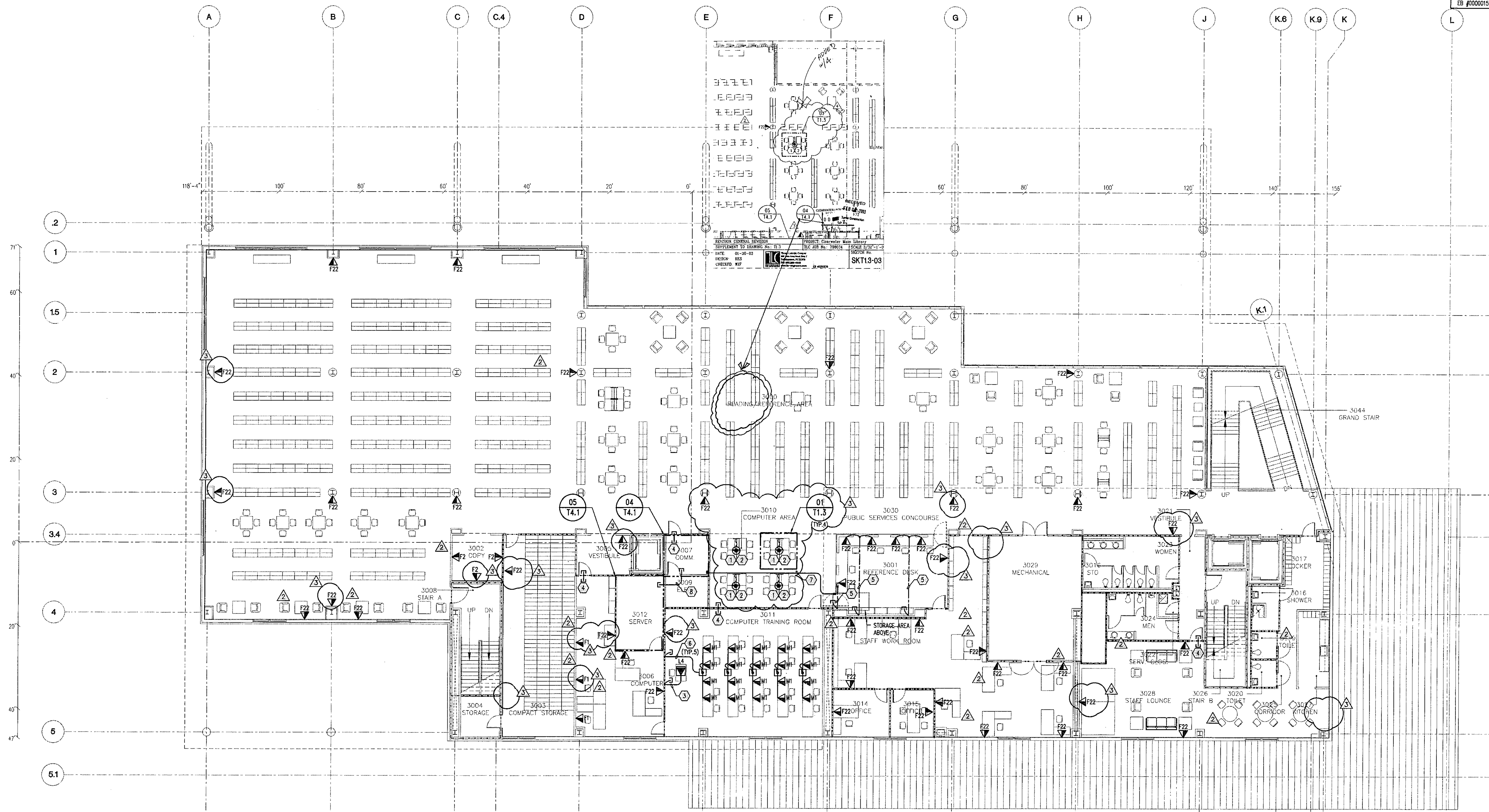
GENERAL NOTES  
 1. REFER TO GENERAL NOTES ON SHEET T1.1.

- PLAN NOTES
1. PROVIDE POKE-THRU DEVICE FOR VOICE/DATA CABLING.
  2. VOICE/DATA CABLING SHALL ROUTE TO TR 2-1 VIA THE FIRST FLOOR CEILING AND TR 1-1 CONDUIT RISER. REFER TO ZONE CABLING PLAN AND RISER DIAGRAMS FOR DETAILS.
  3. CONDUIT CONNECTION FROM FLOORBOX TO STUB INTO ACCESSIBLE CEILING SPACE.
  4. 4" CONDUIT SLEEVE(S) FOR VOICE/DATA CABLING.
  5. 12"W X 6"H CABLE TRAY. VERIFY A MINIMUM OF 12" CLEAR SPACE ABOVE TRAY AND CEILING.



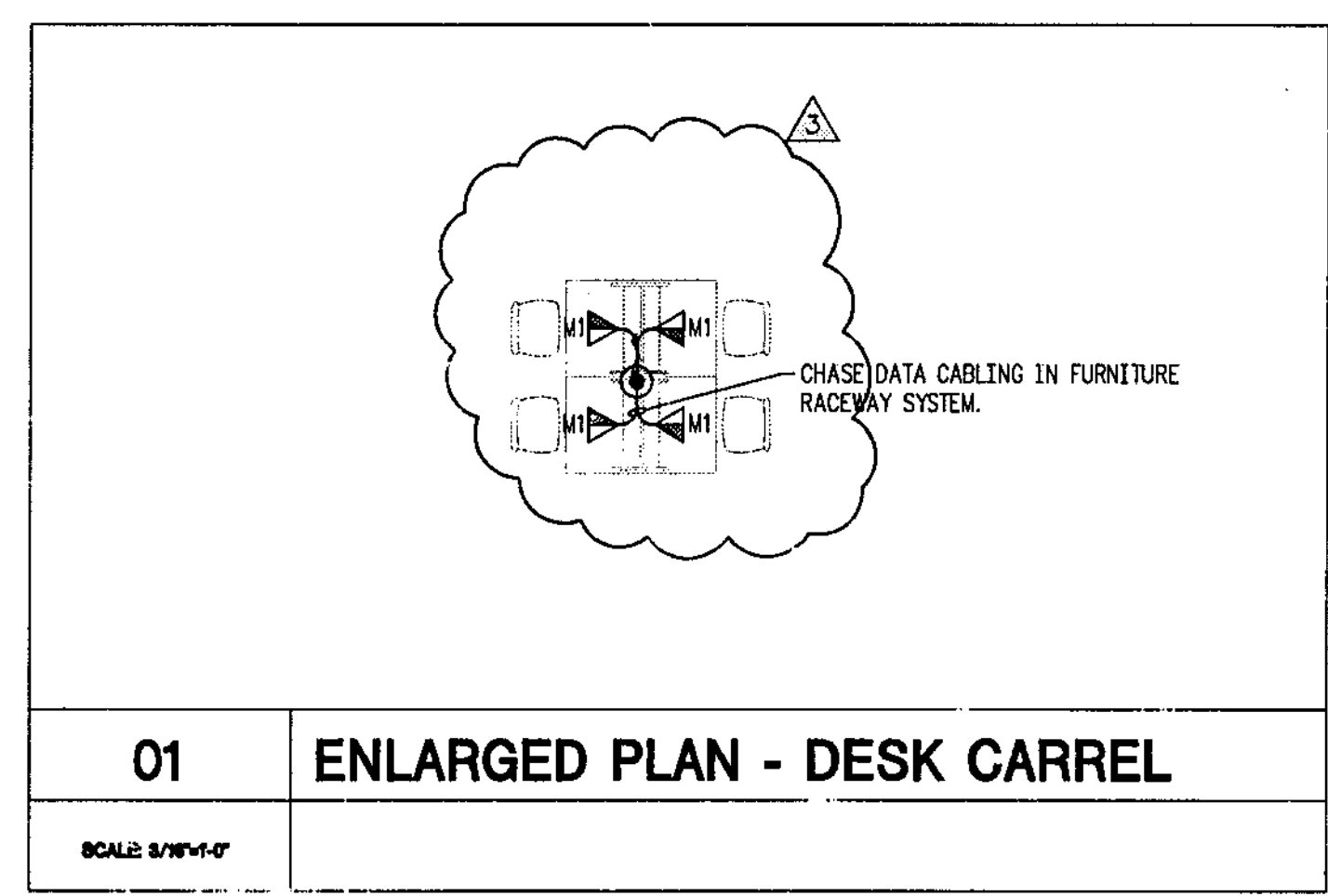
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ALL BACKBONE CABLING FOR THIS ROOM SHALL ORIGINATE FROM EX-100. REFER TO RISER DIAGRAM FOR DETAILS.  
ALL VOICE/DATA CABLING IN THIS AREA SHALL ROUTE TO & TERMINATE IN TR 3-1 UNLESS SPECIFIED OTHERWISE.

THIRD FLOOR - ZONE PLAN - COMMUNICATIONS

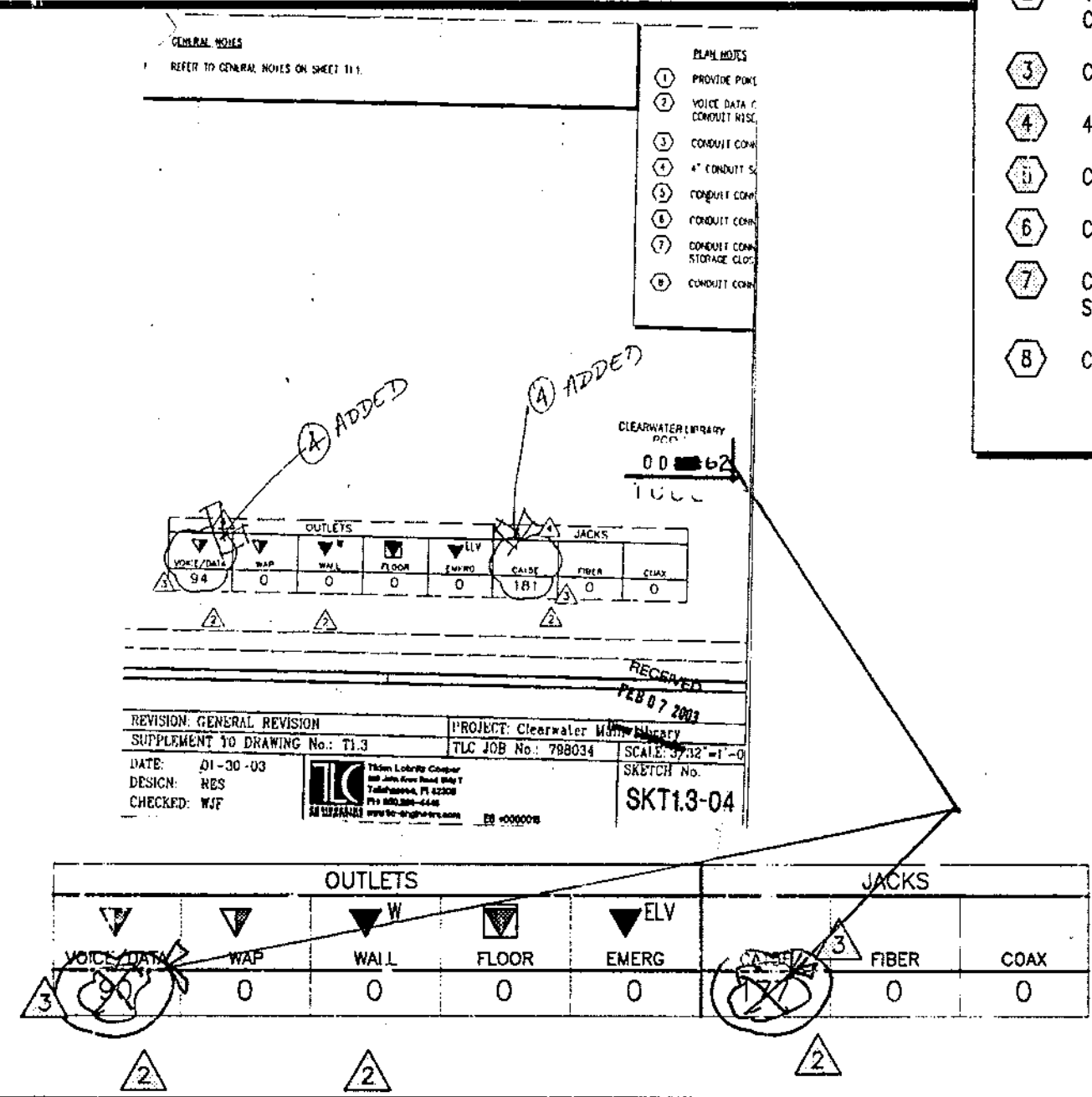


01 ENLARGED PLAN - DESK CARREL

SCALE: 3/32"=1'-0"

**GENERAL NOTES**  
1. REFER TO GENERAL NOTES ON SHEET T1.1.

- PLAN NOTES**
- PROVIDE POKE-THRU DEVICE FOR VOICE/DATA CABLING.
  - VOICE/DATA CABLING SHALL ROUTE TO TR 3-1 VIA THE SECOND FLOOR CEILING AND TR 2-1 CONDUIT RISER. REFER TO ZONE CABLING PLAN AND RISER DIAGRAMS FOR DETAILS.
  - CONDUIT CONNECTION FROM FLOORBOX TO STUB INTO ACCESSIBLE CEILING SPACE.
  - 4" CONDUIT SLEEVE(S) FOR VOICE/DATA CABLING.
  - CONDUIT CONNECTION FROM REFERENCE DESK TO STUB INTO ACCESSIBLE CEILING SPACE.
  - CONDUIT CONNECTION FROM FURNITURE TO STUB INTO ACCESSIBLE CEILING SPACE.
  - CONDUIT CONNECTION FROM TR 3-1 TO ACCESSIBLE CEILING SPACE OF FOURTY' FLOOR STORAGE CLOSET FOR VOICE/DATA AND AUDIO/VISUAL CABLING.
  - CONDUIT CONNECTION FROM TR 3-1 TO SERVER ROOM.



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12-20-02 OWNER REVISIONS  
01-07-03 OWNER REVISIONS

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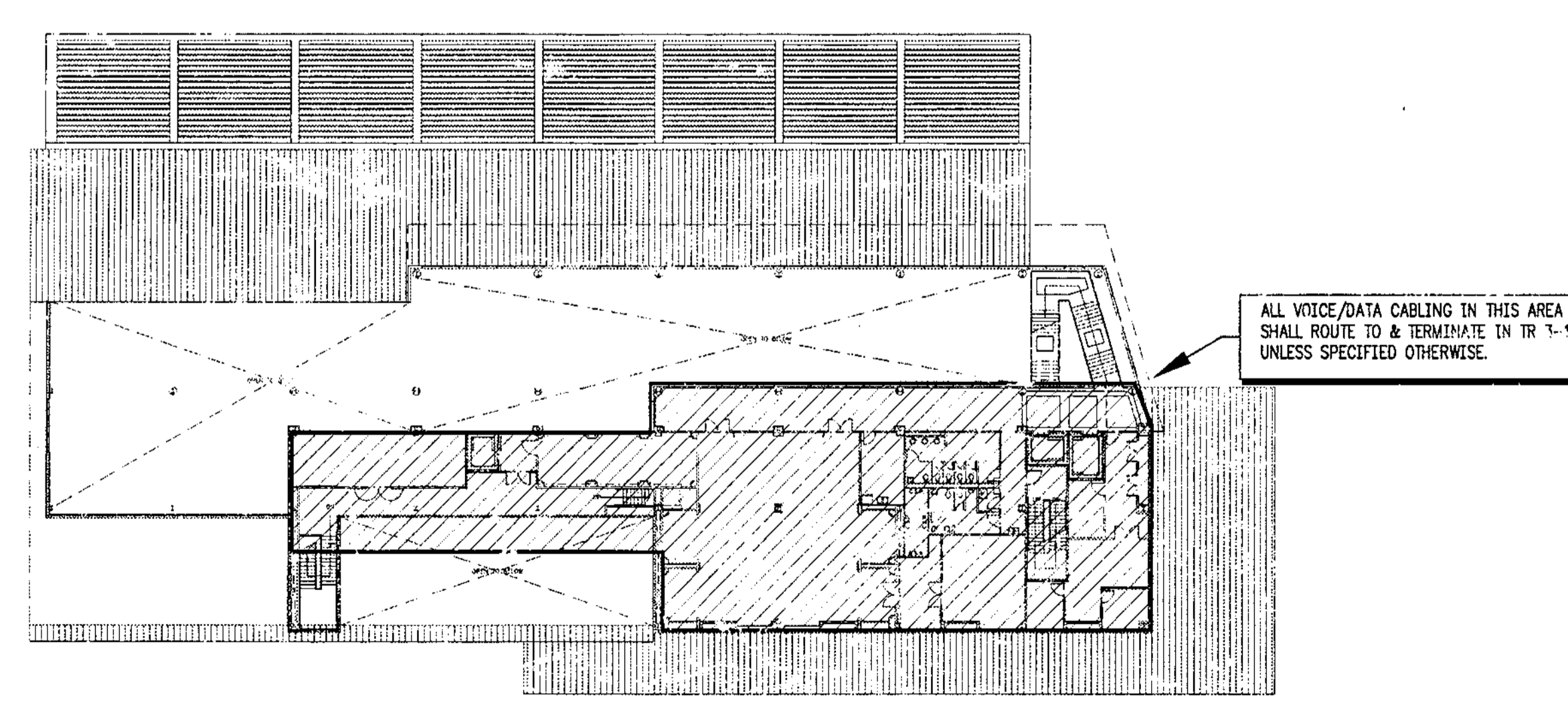
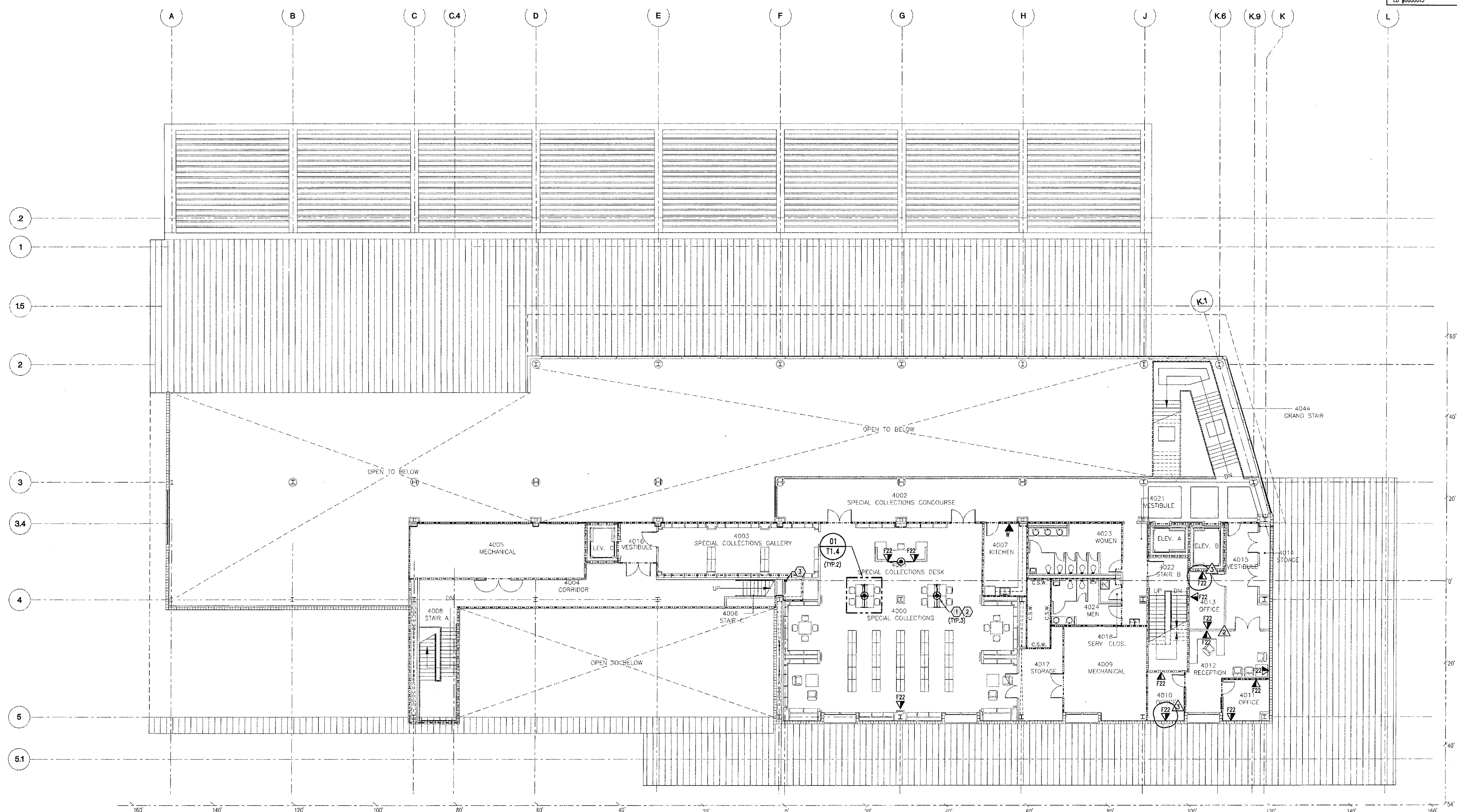
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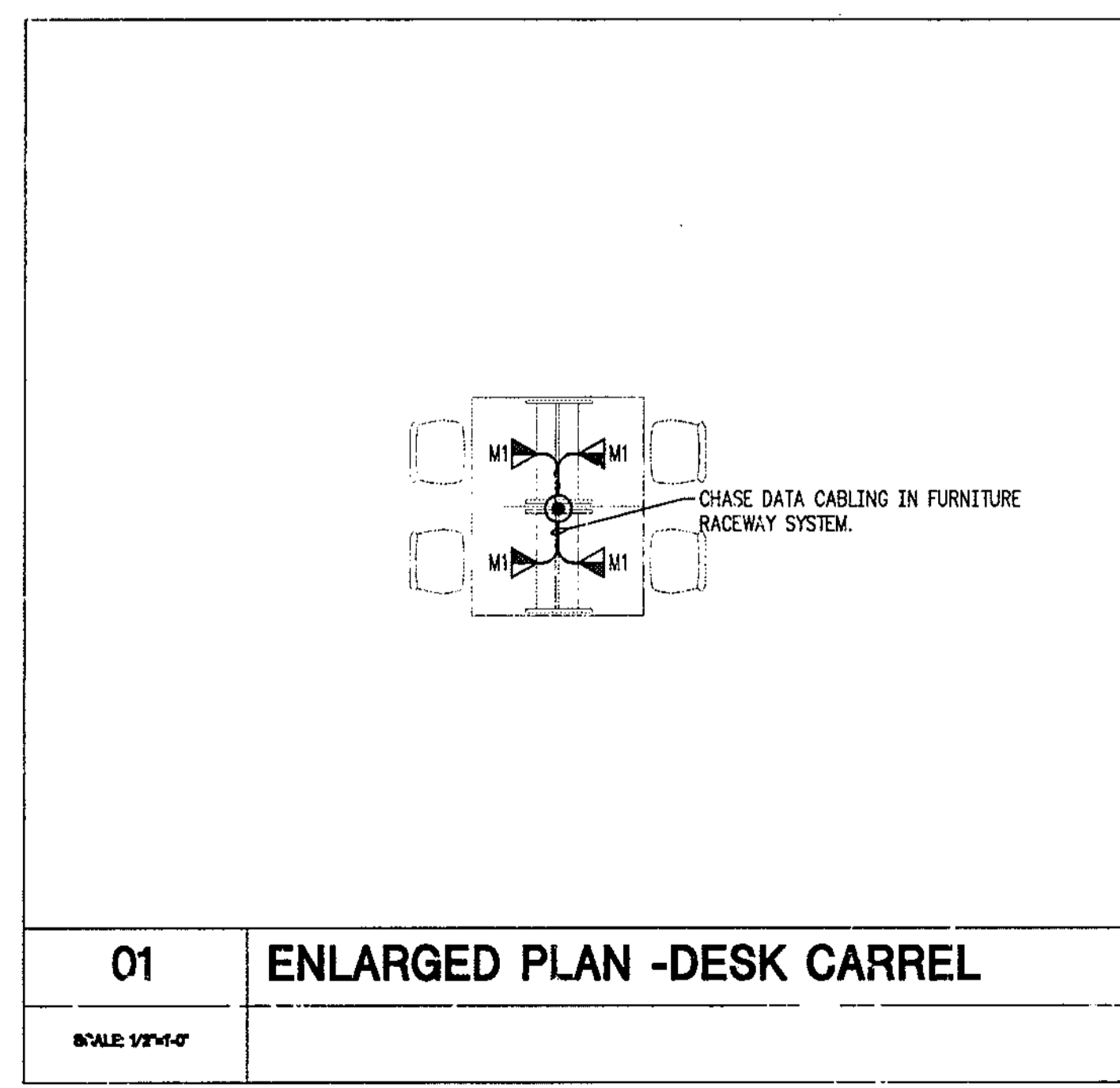
Record Set





**GENERAL NOTES**  
 1. REFER TO GENERAL NOTES ON SHEET T1.1.

**PLAN NOTES**  
 1. PROVIDE POKE-THRU DEVICE FOR VOICE/DATA CABLING.  
 2. VOICE/DATA CABLING SHALL ROUTE TO TR 3-1 VIA THE THIRD FLOOR CEILING. REFER TO ZONE CABLING PLAN AND RISER DIAGRAMS FOR DETAILS.  
 3. CONDUIT CONNECTION FROM ACCESSIBLE CEILING SPACE OF FOURTH FLOOR STORAGE CLOSET TO TR 3-1 FOR VOICE/DATA AND AUDIO/VISUAL CABLING.



01 ENLARGED PLAN -DESK CARREL

OUTLETS		JACKS					
VOICE/DATA	WALL	FLOOR	EMERG.	ELV.	CAT5E	FIBER	COAX
20	0	1	0	0	57	0	0

FOURTH FLOOR - ZONE PLAN - COMMUNICATIONS

FOURTH FLOOR PLAN - COMMUNICATIONS  
 SCALE: 3/32"=1'-0"

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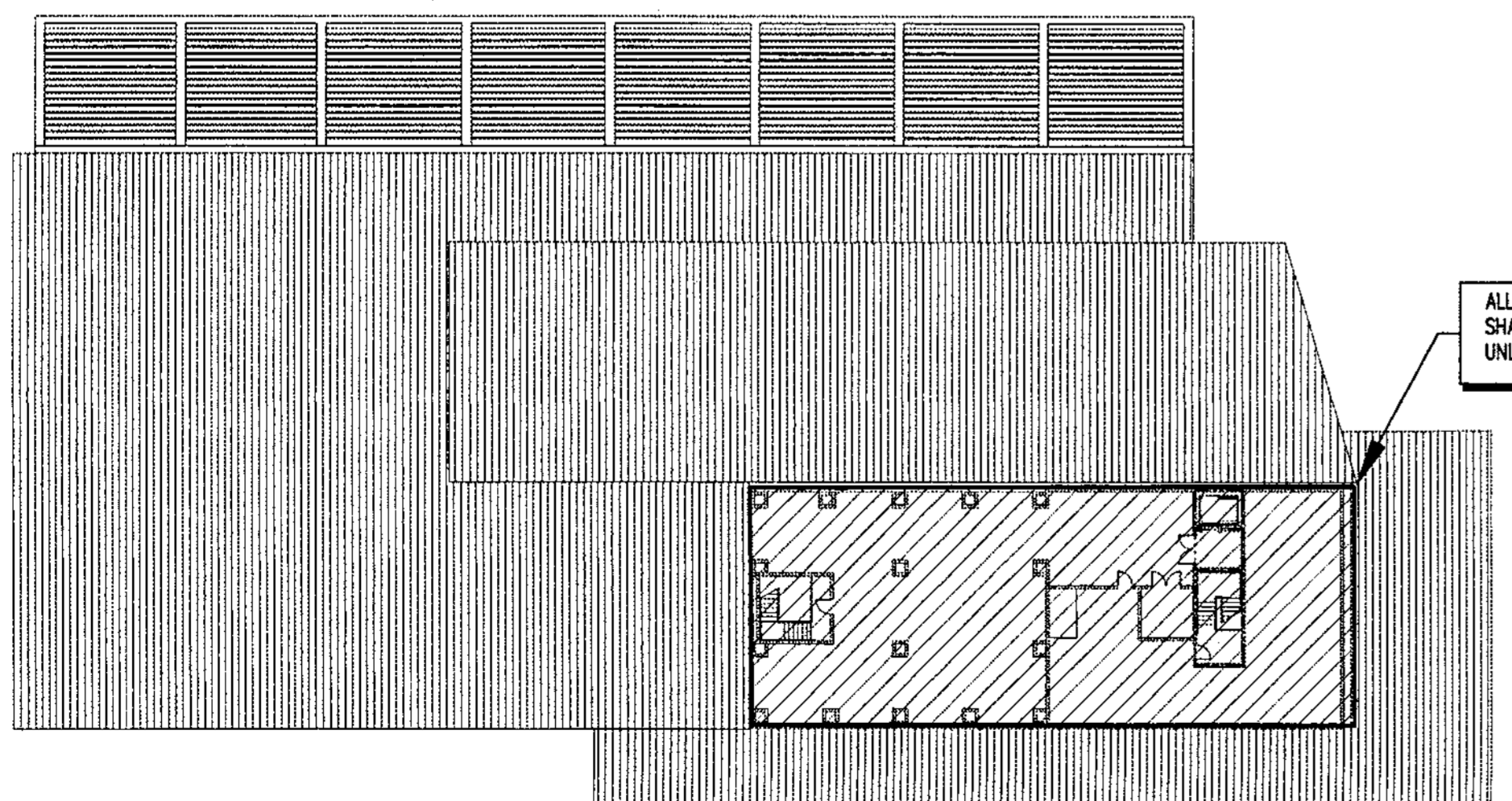
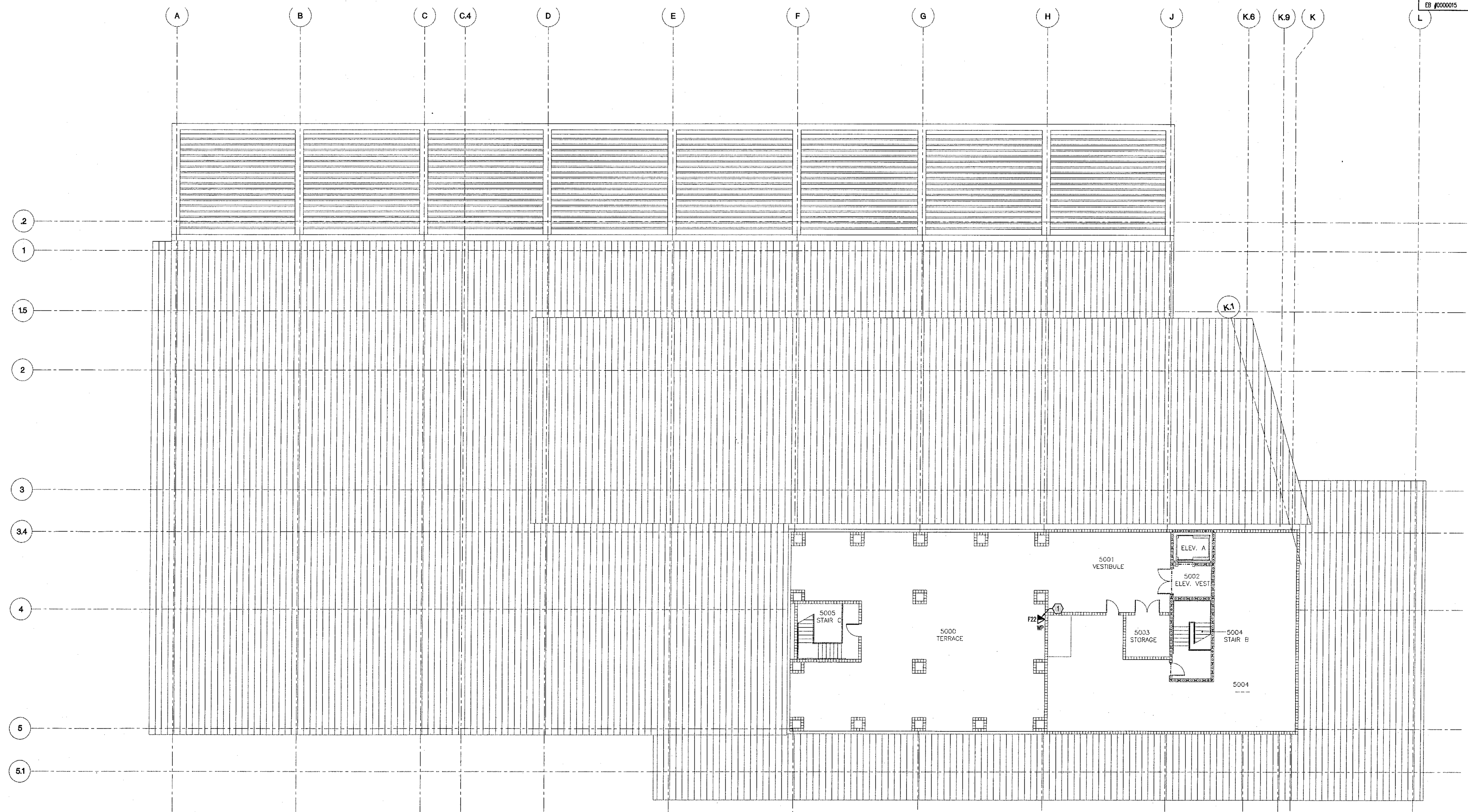
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T1.4

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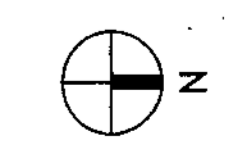
ALL VOICE/DATA CABLING IN THIS AREA SHALL ROUTE TO & TERMINATE IN TR 3-1 UNLESS SPECIFIED OTHERWISE.

**GENERAL NOTES**  
 1. REFER TO GENERAL NOTES ON SHEET T-1.1.

**PLAN NOTES**  
 ① VOICE DATA CABLING SHALL ROUTE TO TR 3-1 VIA THE FOURTH FLOOR CEILING. REFER TO RISER DIAGRAMS FOR DETAILS.

PENTHOUSE - ZONE PLAN - COMMUNICATIONS

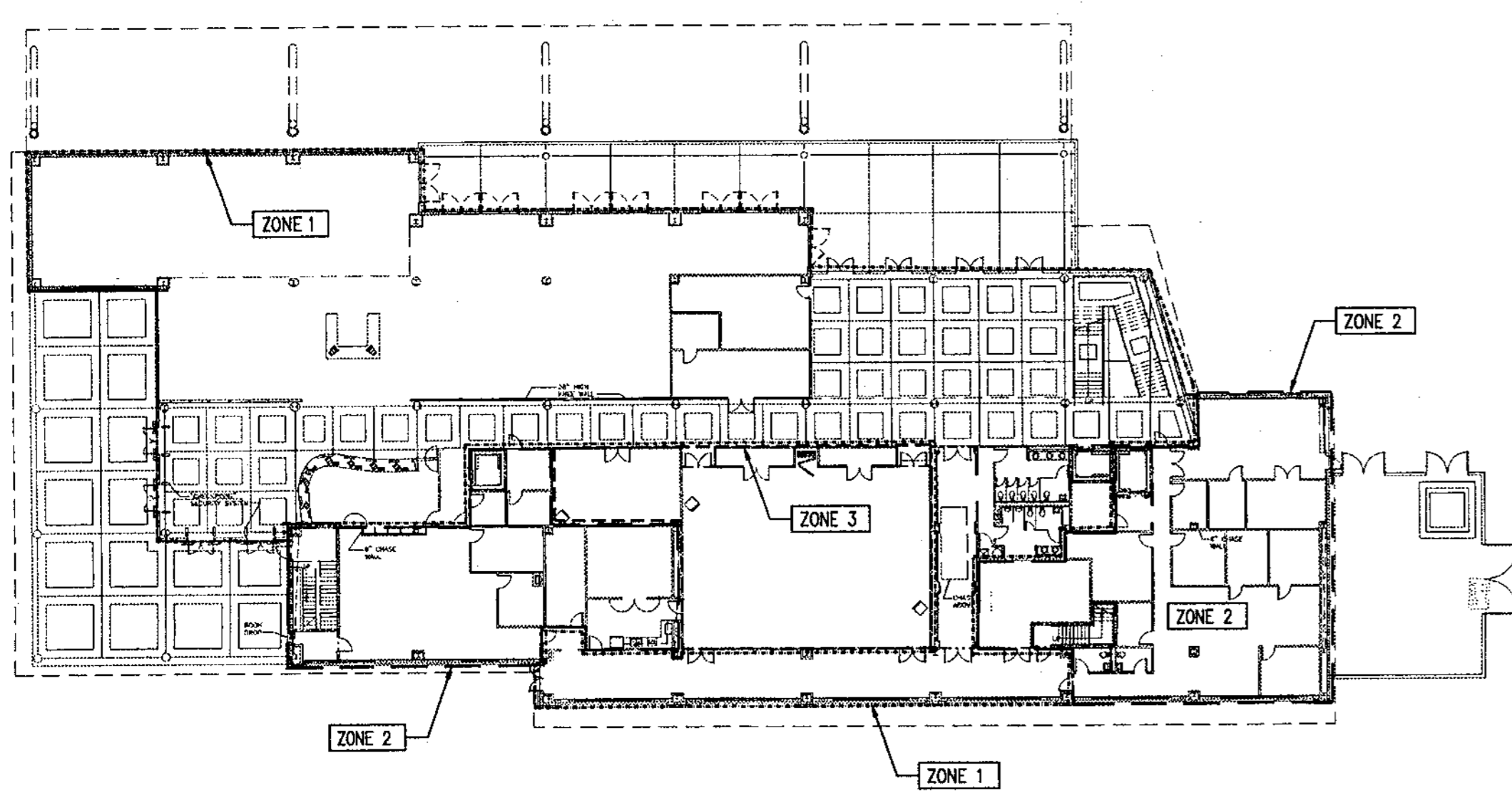
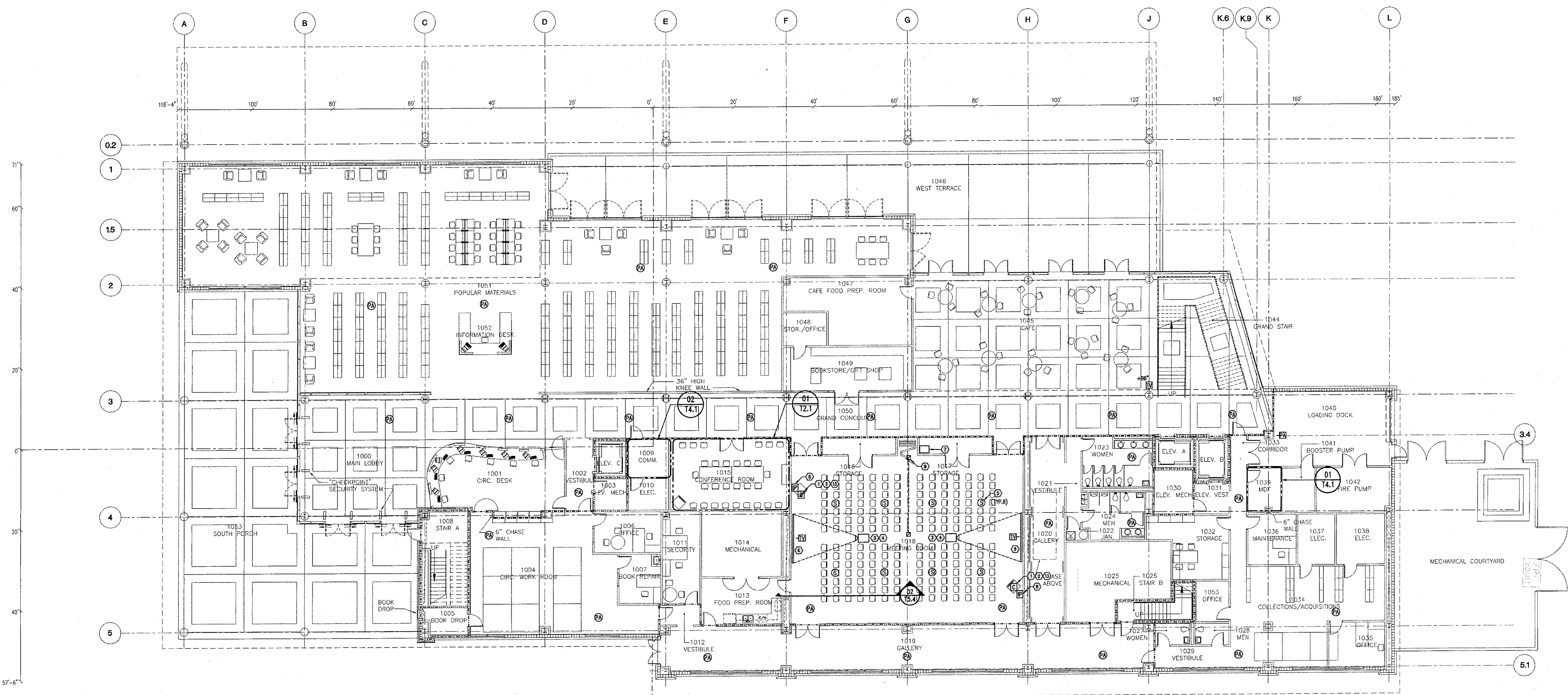
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VOICE/DATA	WAP	WALL	FLOOR	EMERG	CAT5E	FIBER	COAX
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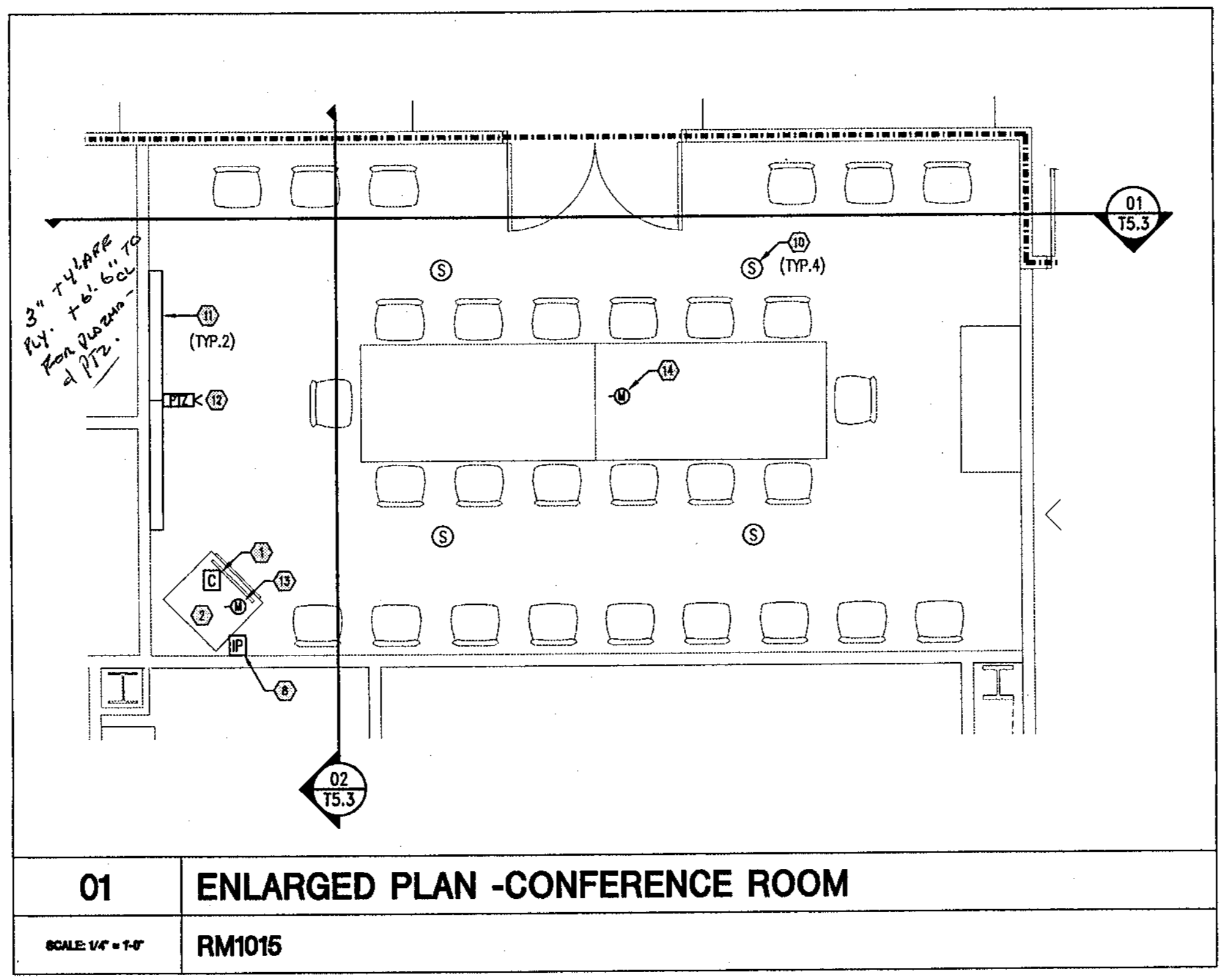
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GROUND FLOOR - ZONE PLAN - PAGING



01 ENLARGED PLAN - CONFERENCE ROOM  
SCALE: 1/4" = 1'-0"  
RM1015

- GENERAL NOTES**
- REFER TO GENERAL NOTES ON SHEET T01.
  - CABLE ROUTING SHALL BE LAID OUT AND COORDINATED WITH RACEWAY PROVISIONS PRIOR TO INSTALLATION.
  - RACEWAY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE SYSTEM'S ENGINEER PRIOR TO INSTALLATION.
  - COORDINATE CABLE ROUTING AND OUTLET INSTALLATION WITH ALL TRADES AS REQUIRED.
  - BUNDLED AUDIO/VISUAL CABLE SHALL INCLUDE FLEXIBLE NON-METALLIC COVERING FOR ENTIRE EXPOSED LENGTH.
  - REFER TO RISER DIAGRAMS FOR EQUIPMENT SPECIFICATIONS AND CONNECTIVITY.
- PLAN NOTES**
- PROVIDE AN INTEGRATED ROOM CONTROLLER FOR THE AUDIO-VISUAL EQUIPMENT.
  - PROVIDE PODIUM WITH MEDIUM DUTY DROP LEAF, CASTOR BASE AND REMOVABLE RACK BOX. DESIGN SELECTION: (MARSHALL MLC0-30.)
  - PROVIDE 3000 LUMEN LCD PROJECTOR WITH MATCHED PENDANT MOUNT. 120 VAC POWER FOR PROJECTOR SHALL BE PROVIDED BY THE DIVISION 16 CONTRACTOR.
  - PROVIDE CABLING AND CONNECTIONS FROM LCD PROJECTOR TO THE AUDIO-VISUAL EQUIPMENT RACK IN STORAGE ROOM 1017.
  - PROVIDE CEILING MOUNTED SPEAKERS AND REQUIRED CABLING AND CONNECTIONS TO AUDIO-VISUAL EQUIPMENT LOCATED IN STORAGE ROOM 1017.
  - PROVIDE RECESSED ELECTRIC PROJECTION SCREEN WITH LOW VOLTAGE CONTACTS. CONNECT INTEGRATED AUDIO-VISUAL CONTROLLER WITH SCREEN CONTROLS. DESIGN SELECTION: (DA-LITE 10' X 12' ADVANTAGE ELECTRICAL SERIES). 120 VAC PHR SHALL BE PROVIDED BY THE DIVISION 16 CONTRACTOR.
  - PROVIDE 18" RACK FOR AUDIO-VISUAL EQUIPMENT. REFER TO DETAIL 03/75.5 FOR EQUIPMENT.
  - PROVIDE AN ARCHITECTURAL SERIES INTERFACE PLATE COORDINATE WITH THE ARCHITECT/OWNER FOR THE FINAL COLOR.
  - PROVIDE AUDIO ROOM COMBINING EQUIPMENT WITH 2-POSITION SENSORY CONTACTS MOUNTED IN RAIL OF AIRWALL PARTITION.
  - PROVIDE CABLING AND CONNECTIONS FROM CEILING MOUNTED PROGRAM SPEAKERS TO AUDIO-VISUAL EQUIPMENT LOCATED IN PODIUM RACKBOX.
  - PROVIDE 42" PLASMA DISPLAY WITH STATIC WALL MOUNTS AND ASSOCIATED CABLING AND CONNECTIONS.
  - PROVIDE VIDEO TELECONFERENCING CAMERA.
  - PROVIDE MICROPHONE, CABLING AND CONNECTIONS TO ROOM AUDIO VISUAL EQUIPMENT.
  - PROVIDE DESKTOP AUDIO-CONFERENCING MICROPHONE, CABLING AND CONNECTIONS TO ROOM AUDIO VISUAL EQUIPMENT.

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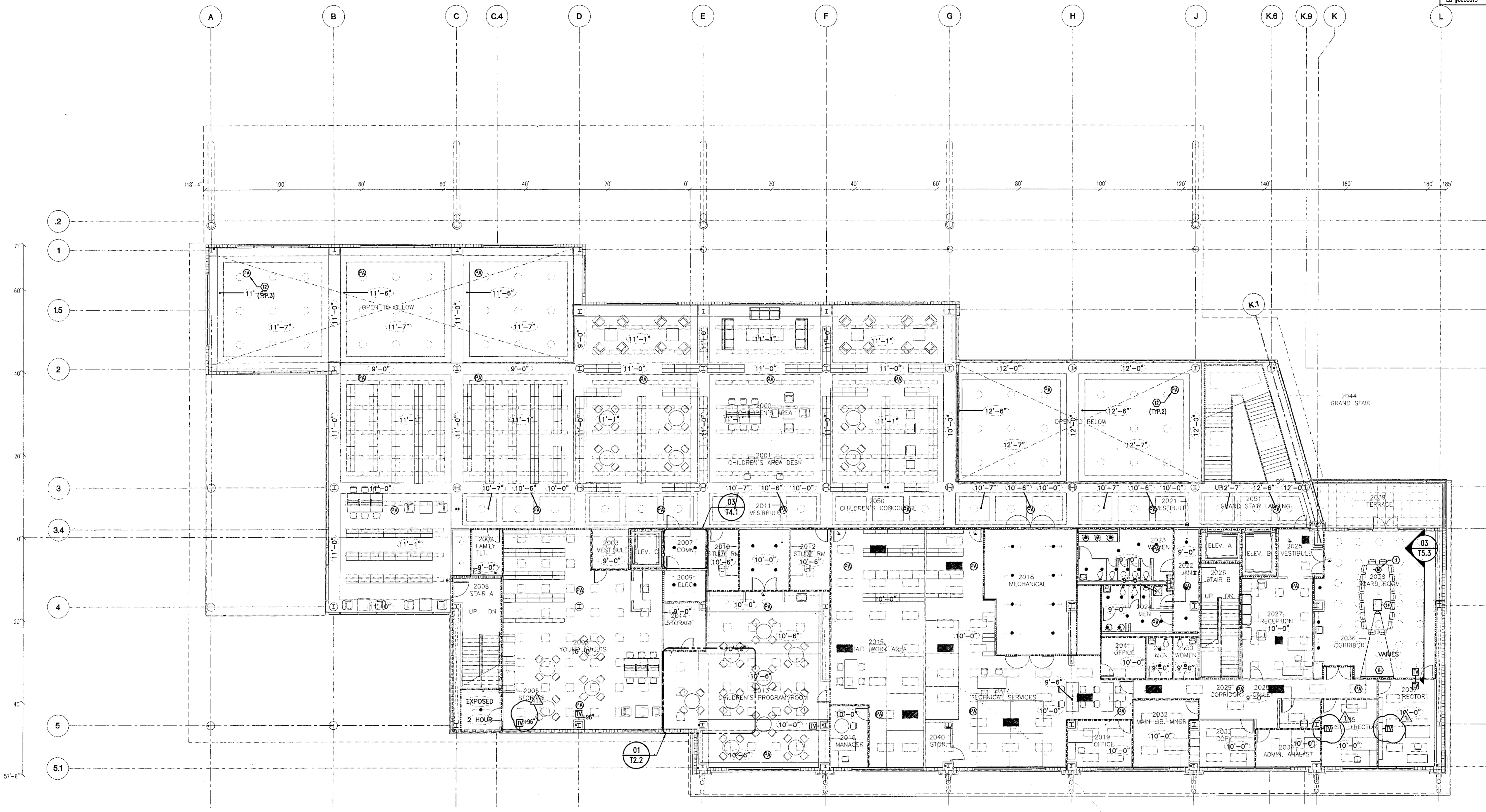
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T2.1

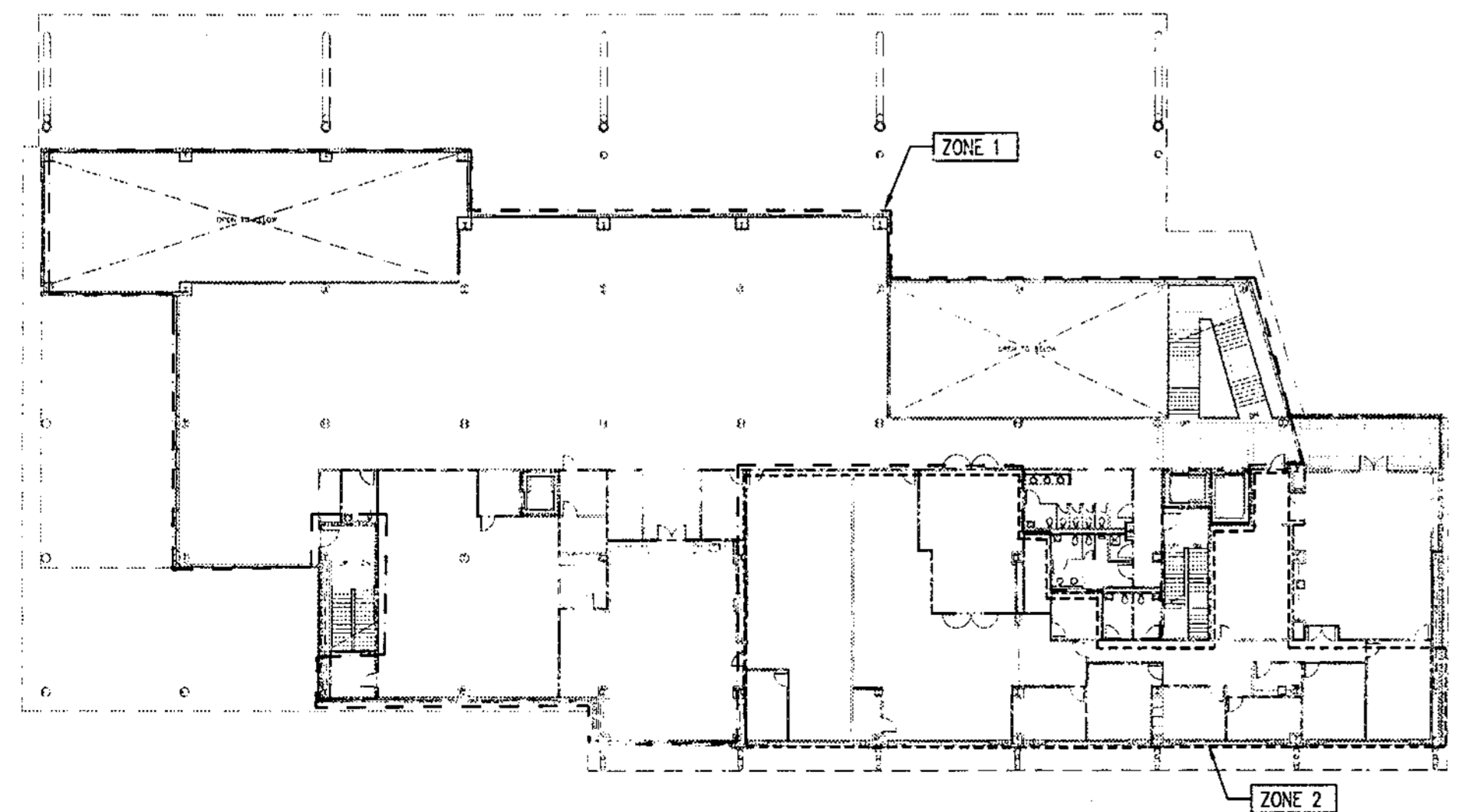
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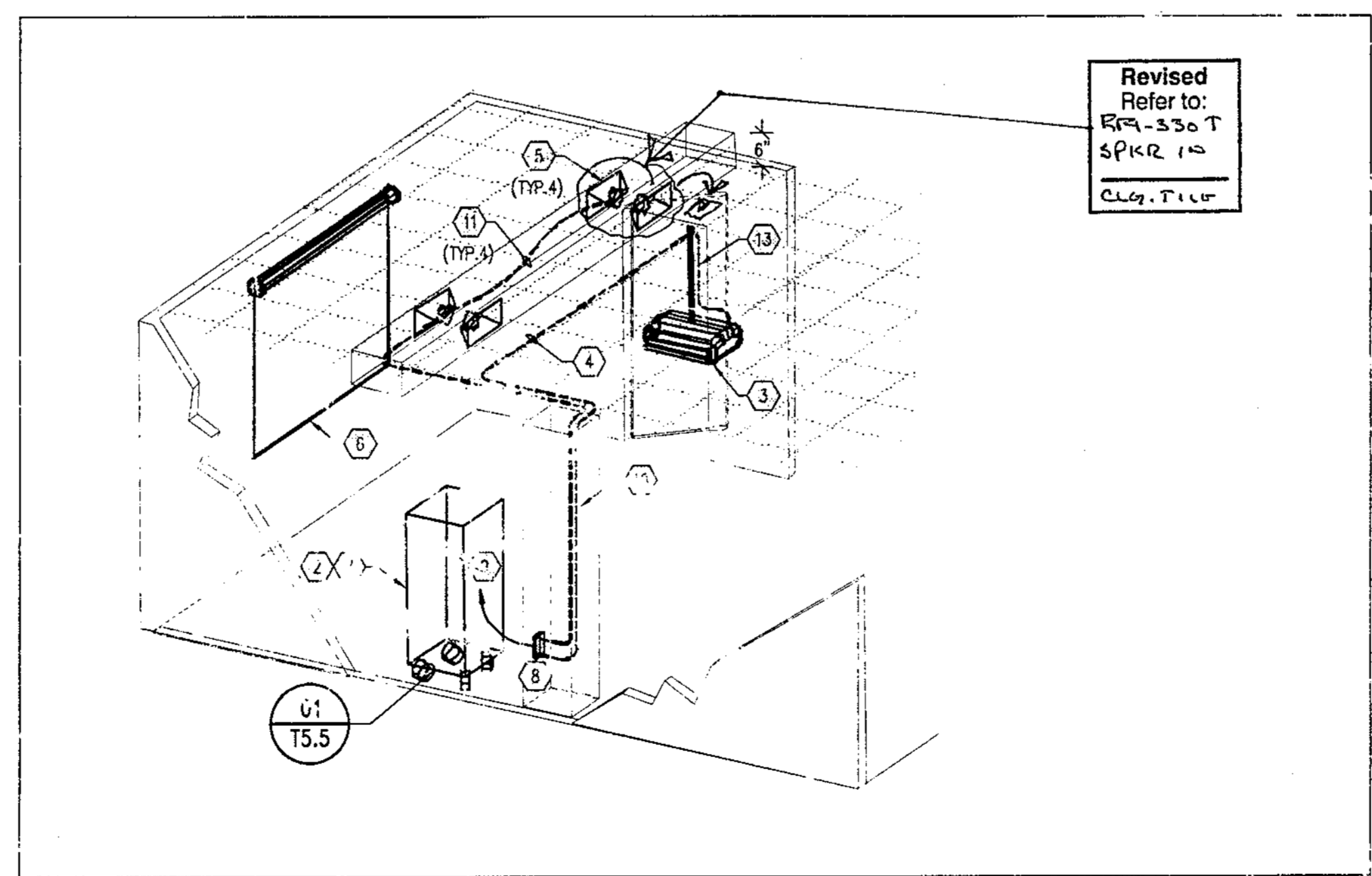




OUTLETS		JACKS					
VOICE/DATA	WMP	WALL	FLOOR	EMERG.	CAT5E	FIBER	COAX
77	0	1	0	0	143	0	0



SECOND FLOOR - ZONE PLAN - PAGING



01 ENLARGED PLAN - CHILDREN'S PROGRAM ROOM  
 SCALE NONE RM 2013

Revised  
 Refer to:  
 RM-550 T  
 SPKR 10  
 CLG-FILL

GENERAL NOTES  
 1. REFER TO GENERAL NOTES ON SHEET T2.1.

- PLAN NOTES
- PROVIDE DESKTOP AUDIO-CONFERENCE MICROPHONE, CABLEING AND CONNECTIONS TO ROOM AUDIO VISUAL EQUIPMENT.
  - PROVIDE AUDIO-VISUAL CART WITH CASTOR BASE. DESIGN SELECTION: MIDDLE ATLANTIC BRK-20.
  - PROVIDE 3000 LUMEN LCD PROJECTOR WITH MATCHED PENDANT MOUNT. 120 VAC POWER FOR PROJECTOR SHALL BE PROVIDED BY THE DIVISION 16 CONTRACTOR.
  - PROVIDE CABLEING AND CONNECTIONS FROM LCD PROJECTOR TO THE AUDIO-VISUAL EQUIPMENT CART.
  - PROVIDE SOFFIT MOUNTED SPEAKERS WITH REQUIRED CABLEING AND CONNECTIONS TO AUDIO-VISUAL INTERFACE PLATE.
  - PROVIDE MANUAL PROJECTION SLIDE™ DESIGN SELECTION: (DA-LITE 6' X 8' E SERIES).
  - PROVIDE WIRELESS MICROPHONE, CABLEING AND CONNECTIONS TO ROOM AUDIO VISUAL EQUIPMENT.
  - PROVIDE AN ARCHITECTURAL SERIES INTERFACE PLATE. COORDINATE WITH THE ARCHITECT/OWNER FOR THE FINAL COLOR.
  - AUDIO-VISUAL CART CONNECTED TO ARCHITECTURAL INTERFACE PLATE VIA CUSTOM UNBELLICAL.
  - AUDIO-VISUAL CABLEING TO CHASE DOWN COLUMN BOX-OUT.
  - PROVIDE STEREO CONNECTION TO SOFFIT MOUNTED PROGRAM SPEAKERS.
  - PROVIDE 7W CEILING MOUNTED SPEAKER.
  - ROUTE PROJECTOR CABLEING ALONG PROJECTOR MOUNT INTO ACCESSIBLE CEILING SPACE.
  - OWNER PROVIDED DESKTOP PROJECTOR.

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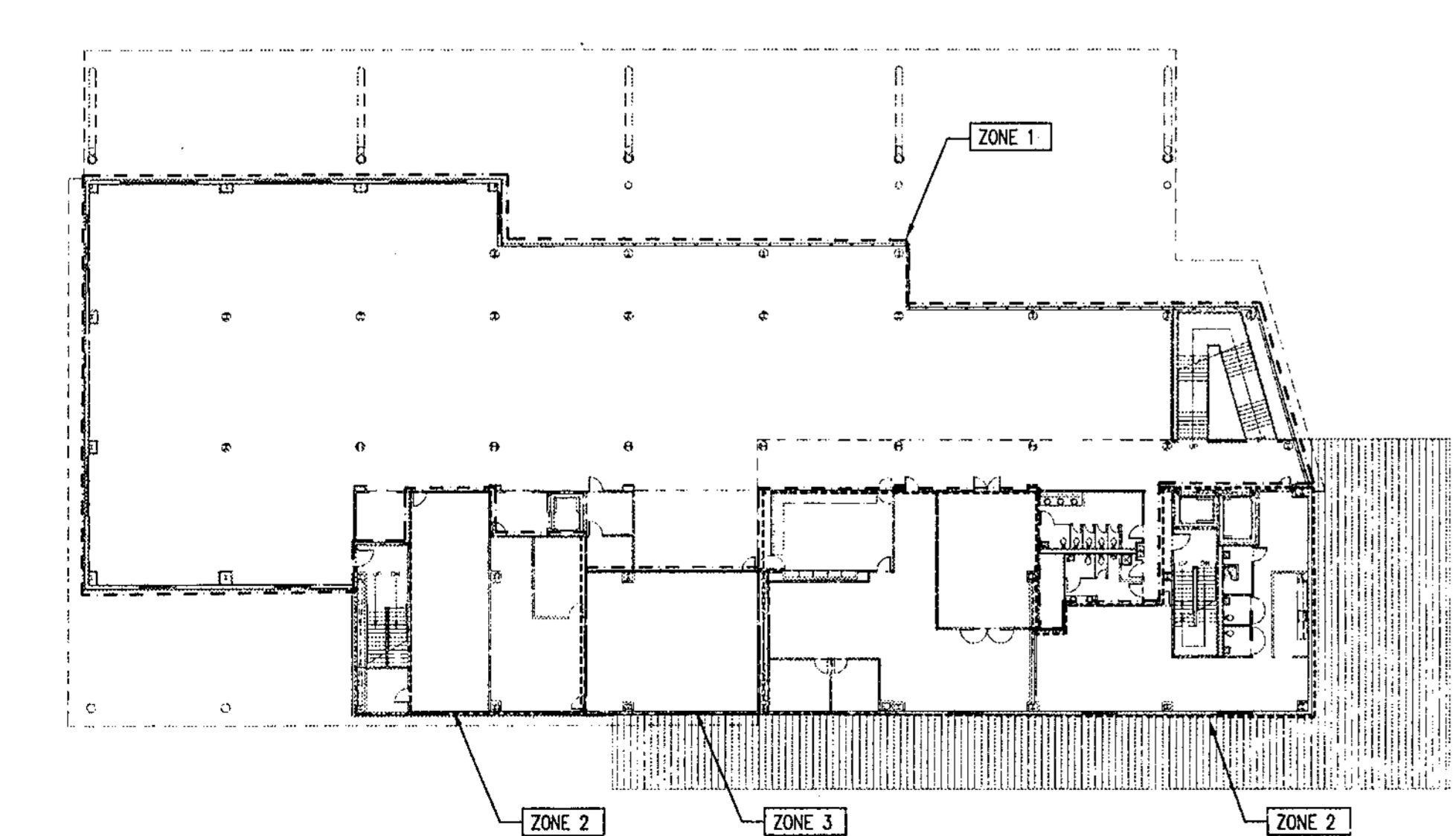
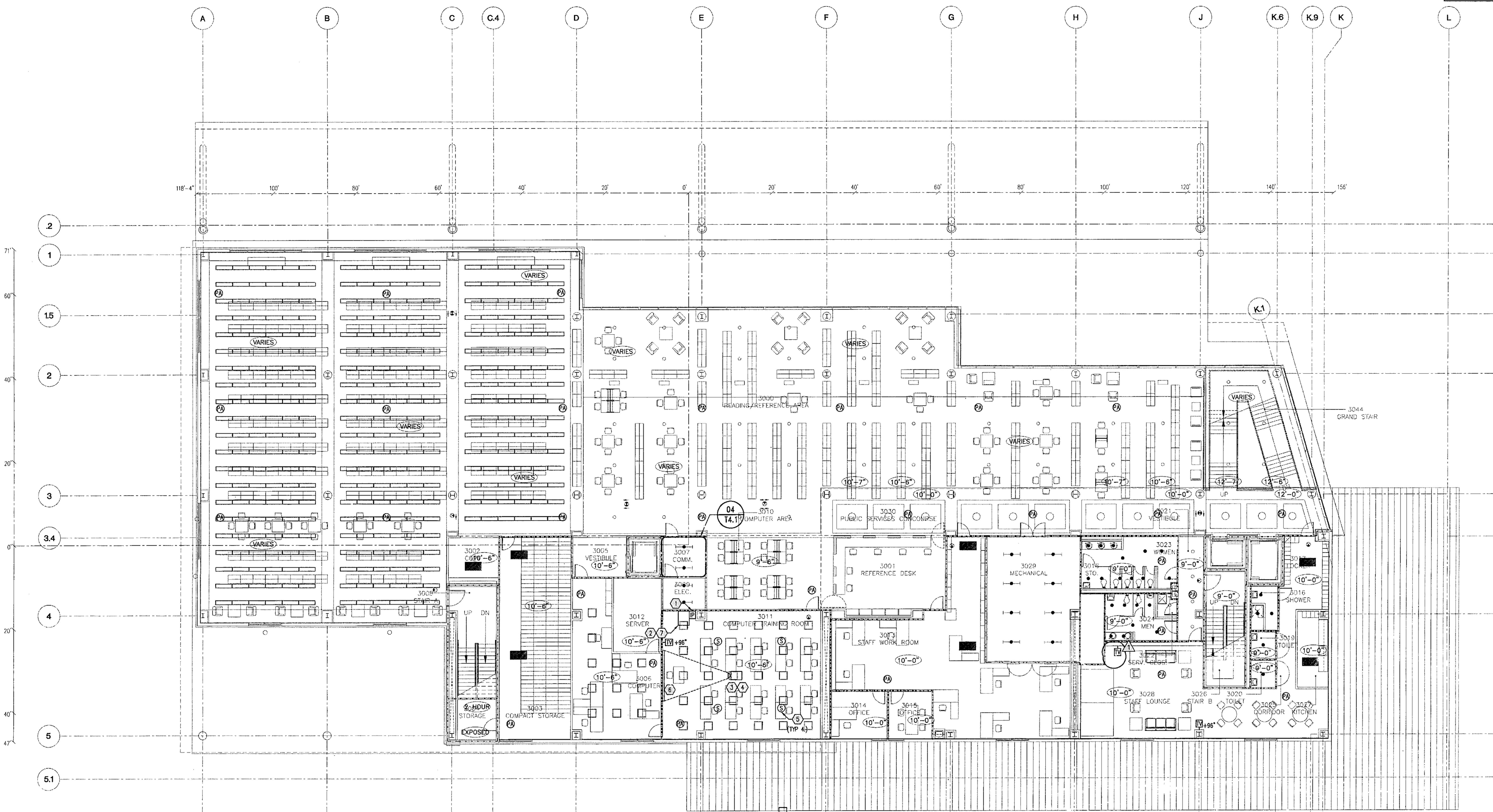
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T2.2





THIRD FLOOR - ZONE PLAN - PAGING

**GENERAL NOTES**

- REFER TO GENERAL NOTES ON SHEET T2.1.

**PLAN NOTES**

- PROVIDE AN ARCHITECTURAL SERIES INTERFACE PLATE. COORDINATE WITH THE ARCHITECT/OWNER FOR THE FINAL COLOR.
- PROVIDE PODIUM WITH MEDIUM DUTY DROP LEAF, CASTOR BASE AND REMOVABLE RACK BOX. DESIGN SELECTION: (MARSHALL MFG. 371) 17"5"2" TO DETAIL 02/15.5 FOR EQUIPMENT.
- PROVIDE 3000 LUMEN LCD PROJECTOR WITH MATCHED PENDANT MOUNT. 120 VAC POWER FOR PROJECTOR SHALL BE PROVIDED BY THE DIVISION 16 CONTRACTOR.
- PROVIDE CABLING AND CONNECTIONS FROM LCD PROJECTOR TO THE AUDIO-VISUAL EQUIPMENT CART.
- PROVIDE CEILING MOUNTED SPEAKERS WITH REQUIRED CABLING AND CONNECTIONS TO AUDIO-VISUAL INTERFACE PLATE.
- PROVIDE RECESSED ELECTRIC PROJECTION SCREEN WITH LOW VOLTAGE CONTACTS. CONNECT TO INTEGRATED AUDIO VISUAL CONTROLLER WITH SCREEN CONTROLS. DESIGN SELECTION: (DA-LITE 6' X 8' ADVANTAGE ELECTRICAL SERIES). 120 VAC PWR SHALL B. PROVIDED BY THE DIVISION 16 CONTRACTOR.
- PROVIDE WIRELESS MICROPHONE, CABLING AND CONNECTIONS TO ROOM AUDIO VISUAL EQUIPMENT.

THIRD FLOOR PLAN - AUDIO/VISUAL  
 SCALE: 3/32"=1'-0"

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T2.3

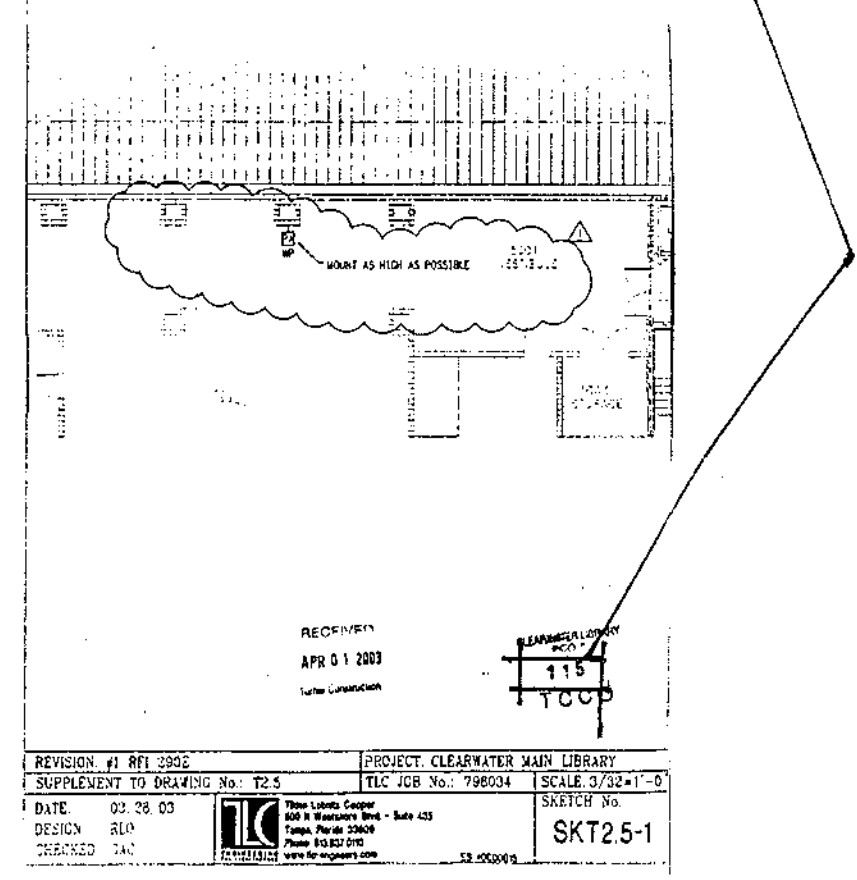
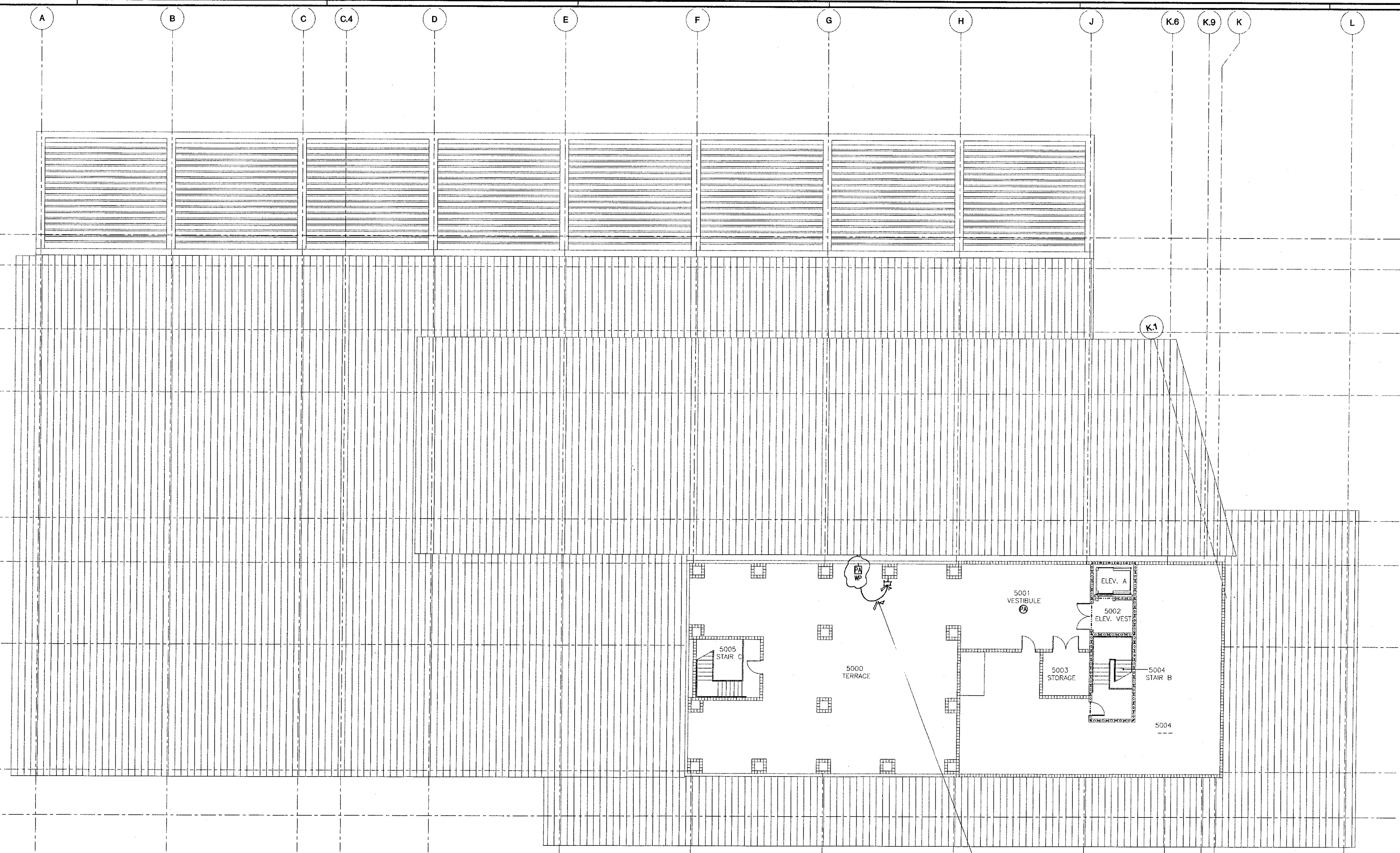
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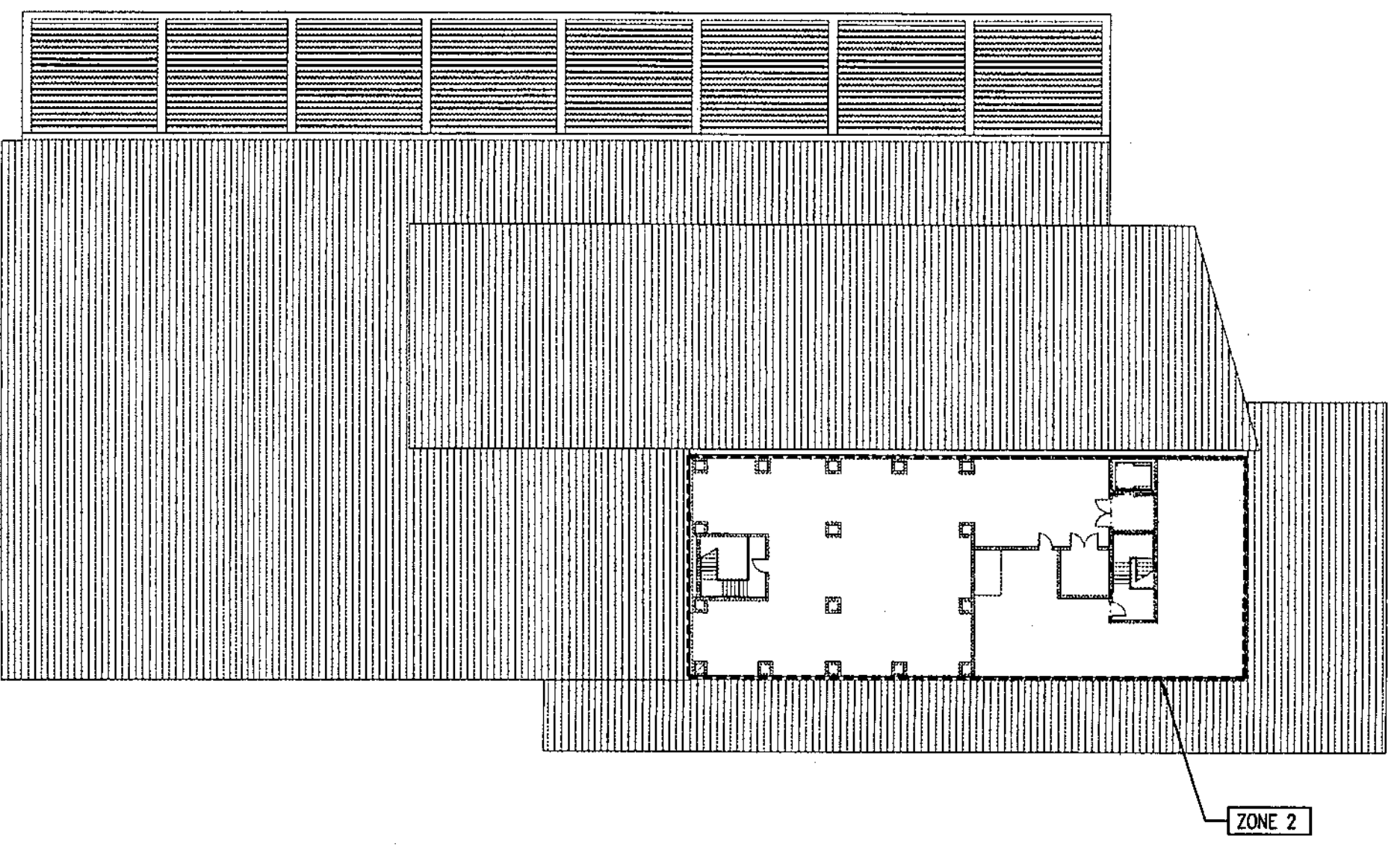








GENERAL NOTES  
 1. REFER TO GENERAL NOTES ON SHEET T2.1.

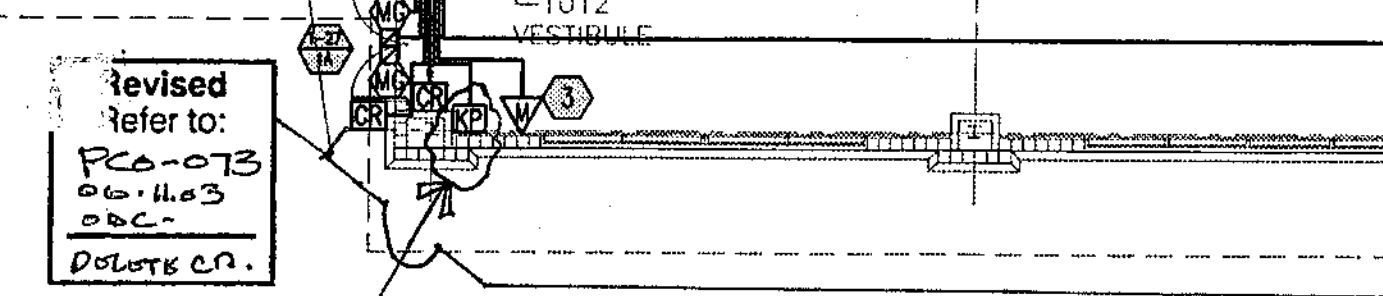
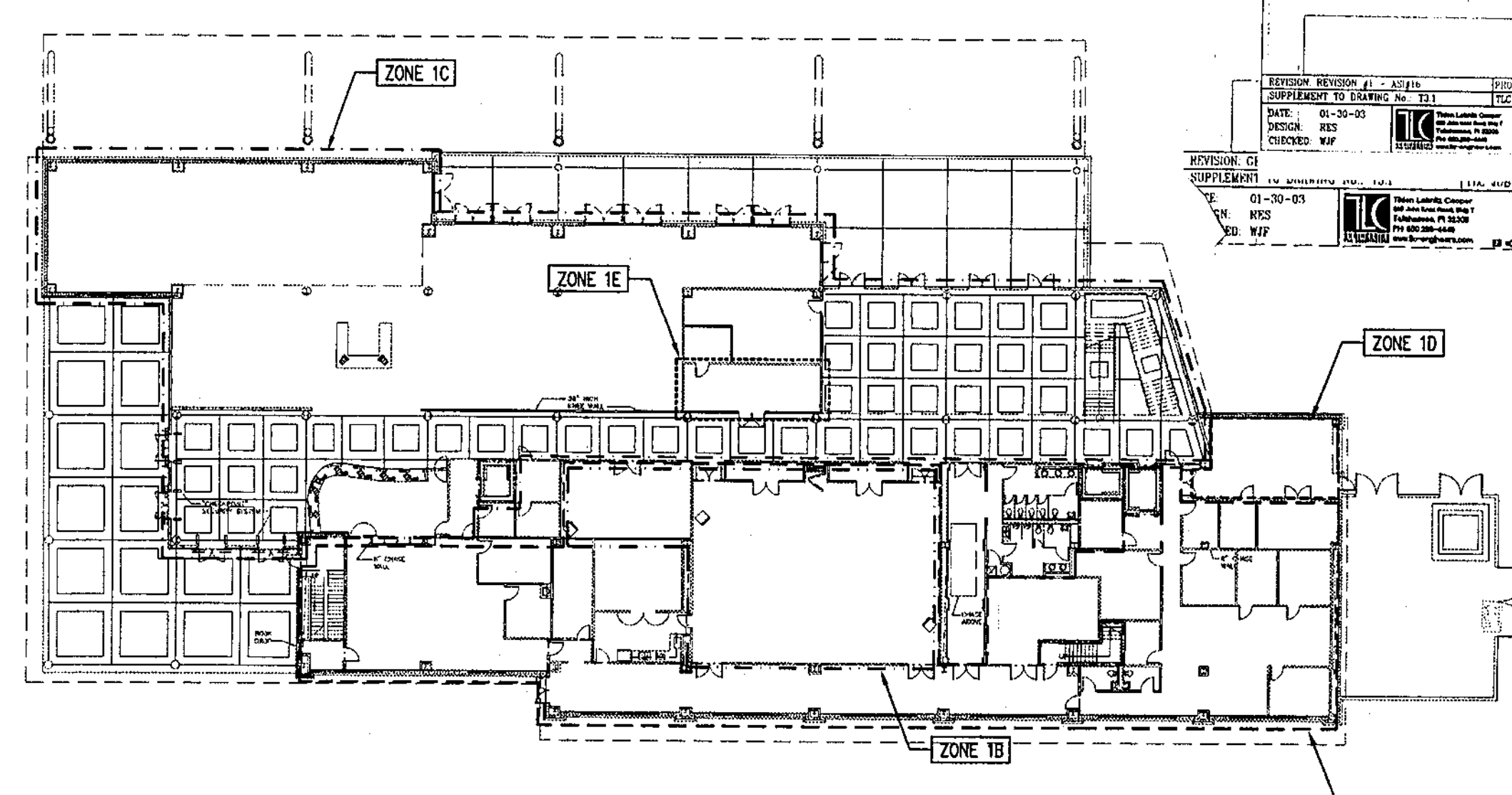
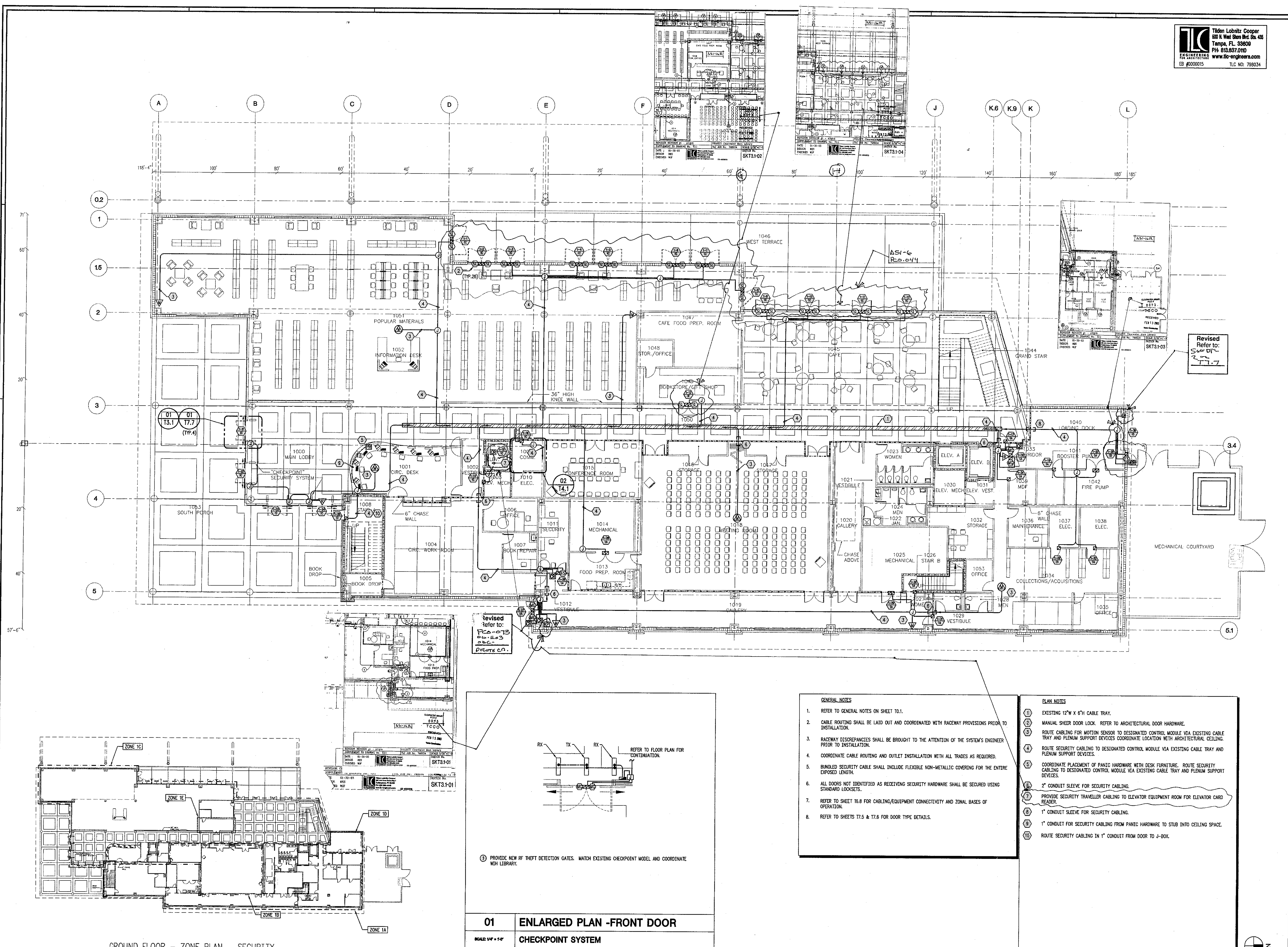


PENTHOUSE - ZONE PLAN - PAGING

PENTHOUSE PLAN - AUDIOVISUAL  
 SCALE: 3/32"=1'-0"

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- GENERAL NOTES**
- REFER TO GENERAL NOTES ON SHEET T0.1.
  - CABLE ROUTING SHALL BE LAID OUT AND COORDINATED WITH RACEWAY PROVISIONS PRIOR TO INSTALLATION.
  - RACEWAY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE SYSTEM'S ENGINEER PRIOR TO INSTALLATION.
  - COORDINATE CABLE ROUTING AND OUTLET INSTALLATION WITH ALL TRADES AS REQUIRED.
  - BUNDLED SECURITY CABLE SHALL INCLUDE FLEXIBLE NON-METALLIC COVERING FOR THE ENTIRE EXPOSED LENGTH.
  - ALL DOORS NOT IDENTIFIED AS RECEIVING SECURITY HARDWARE SHALL BE SECURED USING STANDARD LOCKSETS.
  - REFER TO SHEET T6.8 FOR CABLE/EQUIPMENT CONNECTIVITY AND ZONAL BASES OF OPERATION.
  - REFER TO SHEETS T7.5 & T7.6 FOR DOOR TYPE DETAILS.

- ELAN NOTES**
- EXISTING 12" W X 6" H CABLE TRAY.
  - MANUAL SHEER DOOR LOCK. REFER TO ARCHITECTURAL DOOR HARDWARE.
  - ROUTE CABLE FOR MOTION SENSOR TO DESIGNATED CONTROL MODULE VIA EXISTING CABLE TRAY AND PLENUM SUPPORT DEVICES COORDINATE LOCATION WITH ARCHITECTURAL CEILING.
  - ROUTE SECURITY CABLING TO DESIGNATED CONTROL MODULE VIA EXISTING CABLE TRAY AND PLENUM SUPPORT DEVICES.
  - COORDINATE PLACEMENT OF PANIC HARDWARE WITH DESK FURNITURE. ROUTE SECURITY CABLING TO DESIGNATED CONTROL MODULE VIA EXISTING CABLE TRAY AND PLENUM SUPPORT DEVICES.
  - 2" CONDUIT SLEEVE FOR SECURITY CABLING.
  - PROVIDE SECURITY TRAVELLER CABLING TO ELEVATOR EQUIPMENT ROOM FOR ELEVATOR CARD READER.
  - 1" CONDUIT SLEEVE FOR SECURITY CABLING.
  - 1" CONDUIT FOR SECURITY CABLING FROM PANIC HARDWARE TO STUB INTO CEILING SPACE.
  - ROUTE SECURITY CABLING IN 1" CONDUIT FROM DOOR TO J-BOX.

① PROVIDE NEW RF THEFT DETECTION GATES. MATCH EXISTING CHECKPOINT MODEL AND COORDINATE WITH LIBRARY.

**01 ENLARGED PLAN -FRONT DOOR CHECKPOINT SYSTEM**  
 SCALE 1/4" = 1'-0"

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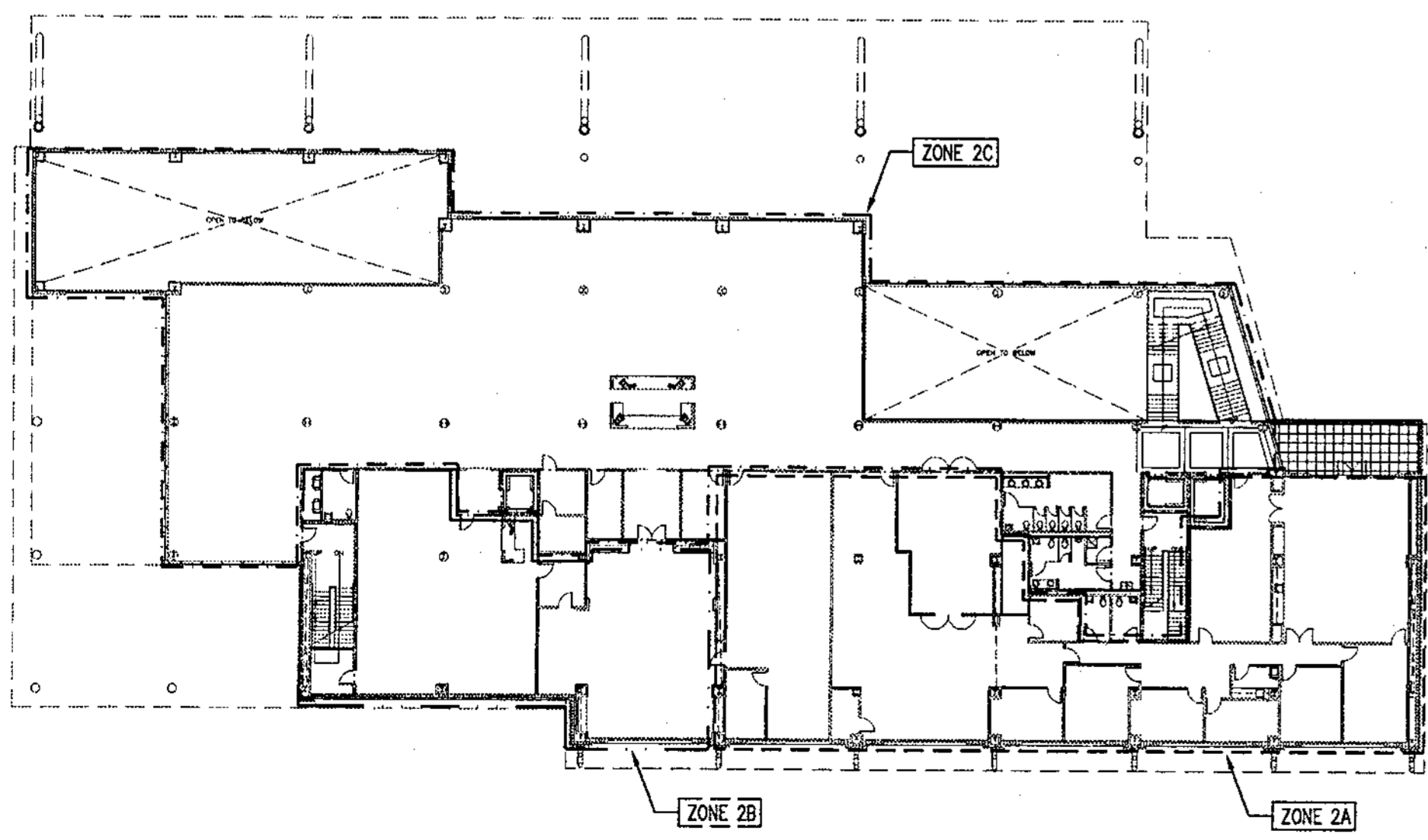
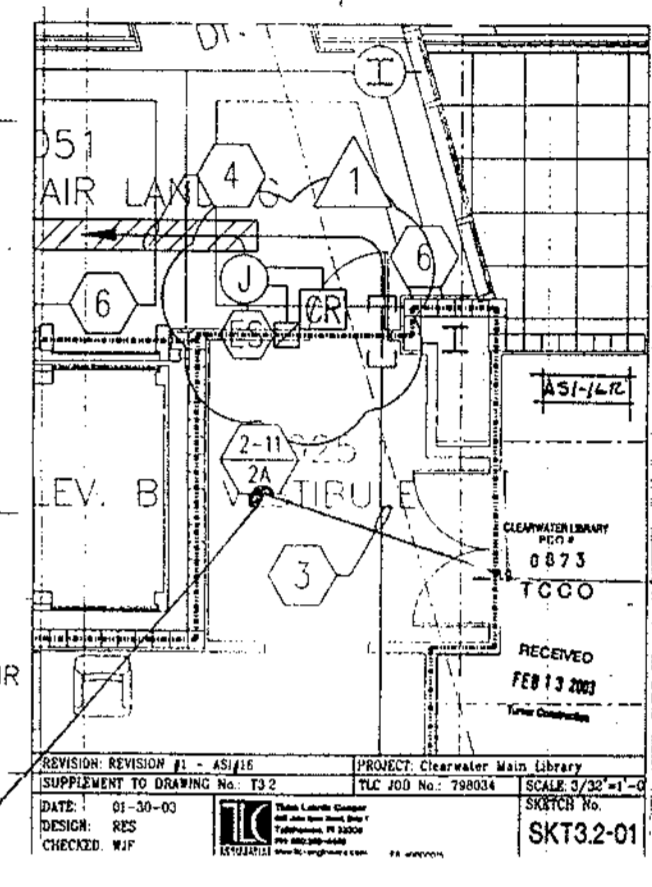
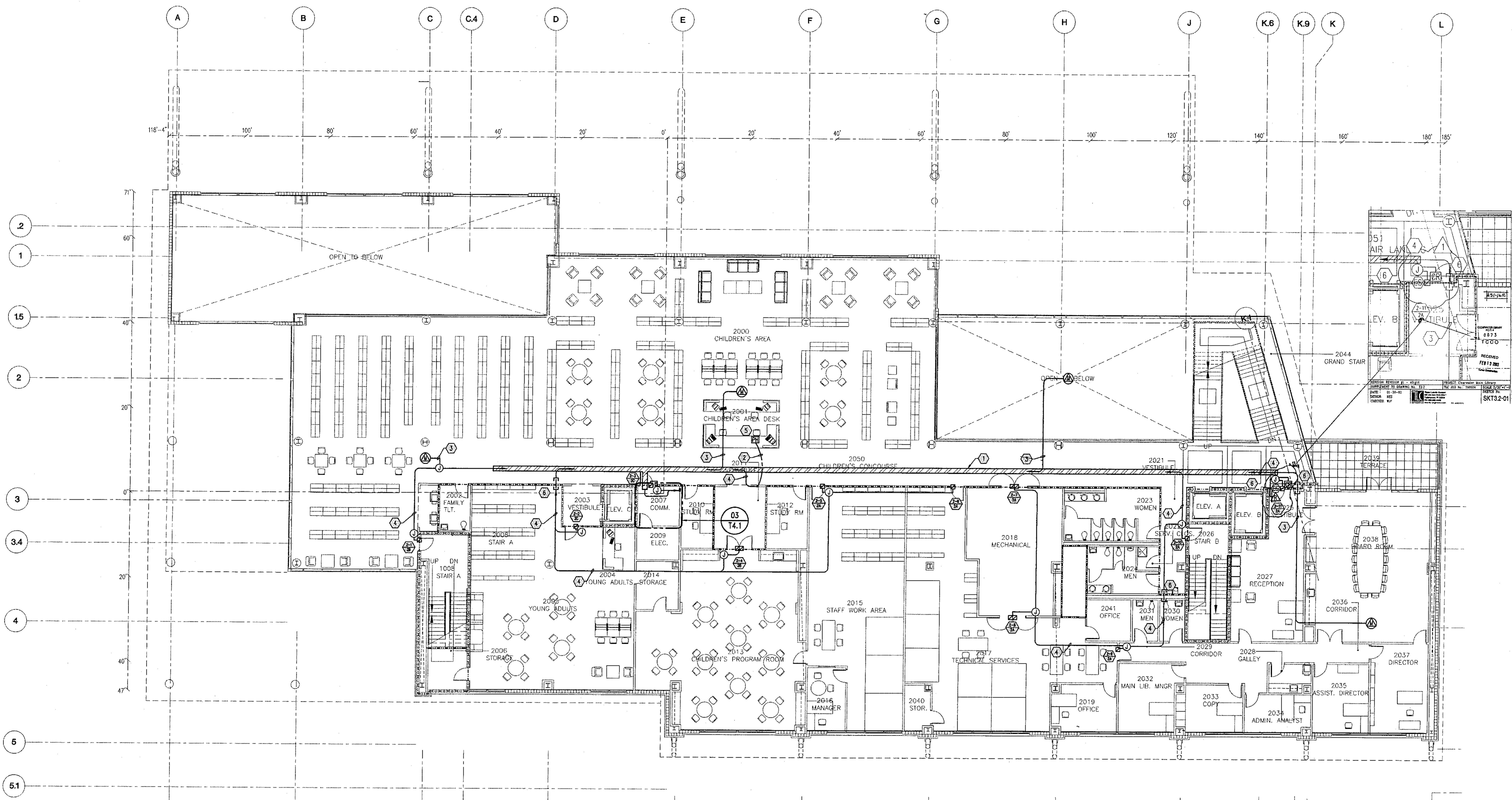
Revised:

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T3.1





SECOND FLOOR - ZONE PLAN - SECURITY

GENERAL NOTES	PLAN NOTES
1. REFER TO GENERAL NOTES ON SHEET T3.1.	① EXISTING 12" W X 6" H CABLE.
	② 1" CONDUIT FOR SECURITY CABLING FROM PANIC HARDWARE TO STUB INTO CEILING SPACE.
	③ ROUTE CABLING FOR MOTION SENSOR TO DESIGNATED CONTROL MODULE VIA EXISTING CABLE TRAY AND PLENUM SUPPORT DEVICES.
	④ ROUTE SECURITY CABLING TO DESIGNATED CONTROL MODULE VIA EXISTING CABLE TRAY AND PLENUM SUPPORT DEVICES.
	⑤ COORDINATE PLACEMENT OF PANIC HARDWARE WITH DESK FURNITURE. ROUTE SECURITY CABLING TO DESIGNATED CONTROL MODULE VIA EXISTING CABLE TRAY AND PLENUM SUPPORT DEVICES.
	⑥ 1" CONDUIT SLEEVE FOR SECURITY CABLING.

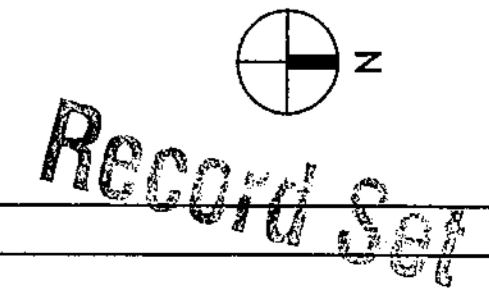
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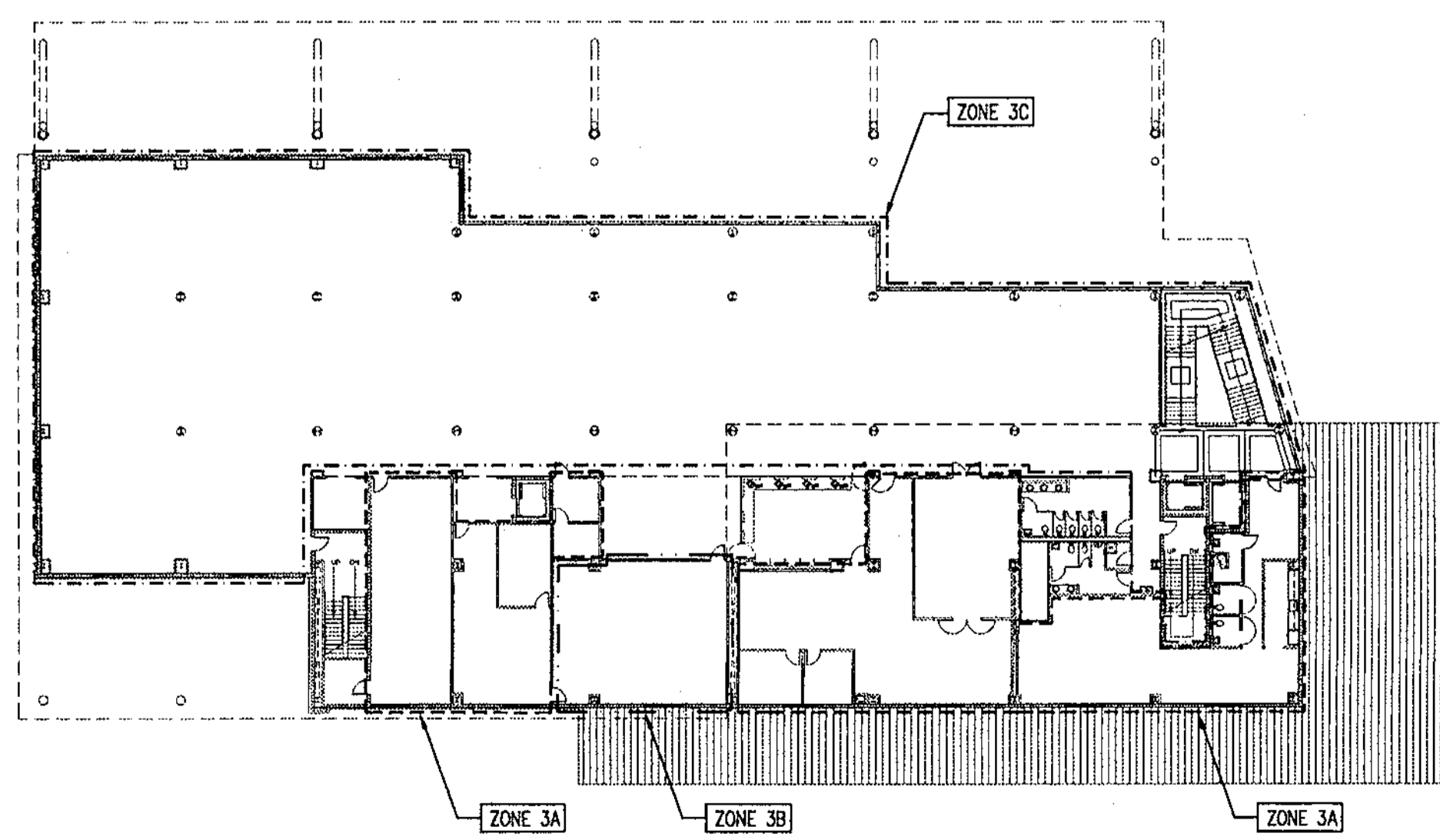
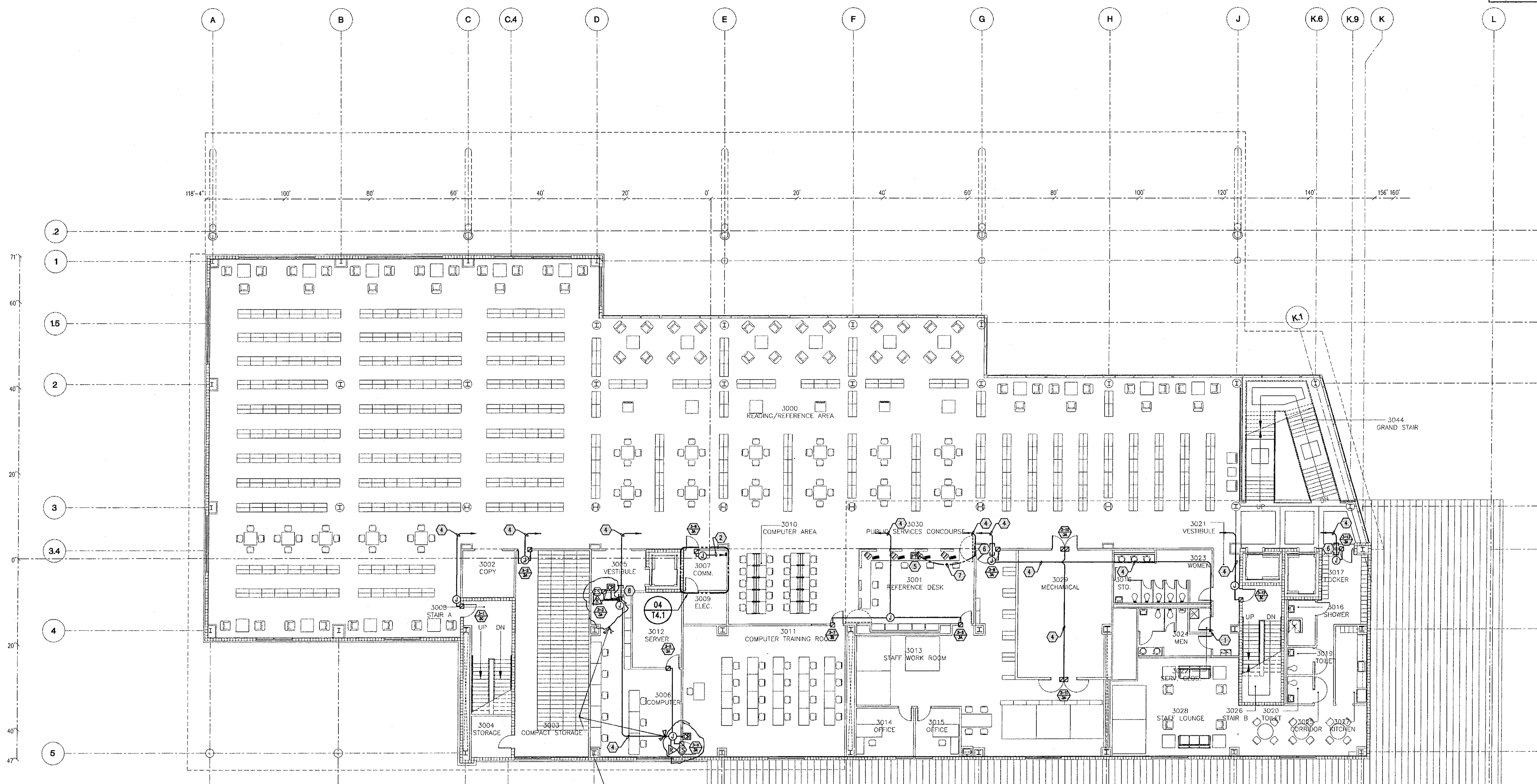
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T3.2

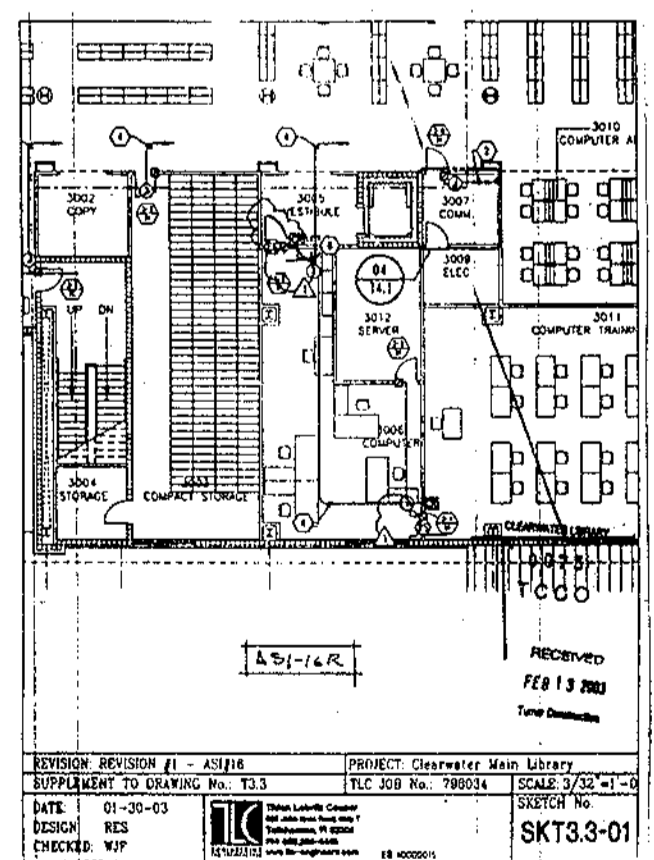


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THIRD FLOOR - ZONE PLAN - SECURITY



GENERAL NOTES	PLAN NOTES
1. REFER TO GENERAL NOTES ON SHEET T3.1.	① CONDUIT CONNECTION FROM THIRD FLOOR SERVICE CLOSET TO ACCESSIBLE CEILING SPACE OF FOURTH FLOOR SERVICE CLOSET.
	② ROUTE TO TR 2-1
	③ ROUTE CABLING FOR MOTION SENSOR TO DESIGNATED CONTROL MODULE VIA EXISTING CABLE TRAY AND PLENUM SUPPORT DEVICES.
	④ ROUTE SECURITY CABLING TO DESIGNATED CONTROL MODULE VIA EXISTING PLENUM SUPPORT DEVICES.
	⑤ COORDINATE PLACEMENT OF PANIC HARDWARE WITH DESK FURNITURE. ROUTE SECURITY CABLING TO DESIGNATED CONTROL MODULE VIA EXISTING CABLE TRAY AND PLENUM SUPPORT DEVICES.
	⑥ 2" CONDUIT SLEEVES FOR SECURITY CABLING.
	⑦ 1" CONDUIT FOR SECURITY CABLING FROM PANIC HARDWARE TO STUB INTO CEILING SPACE.

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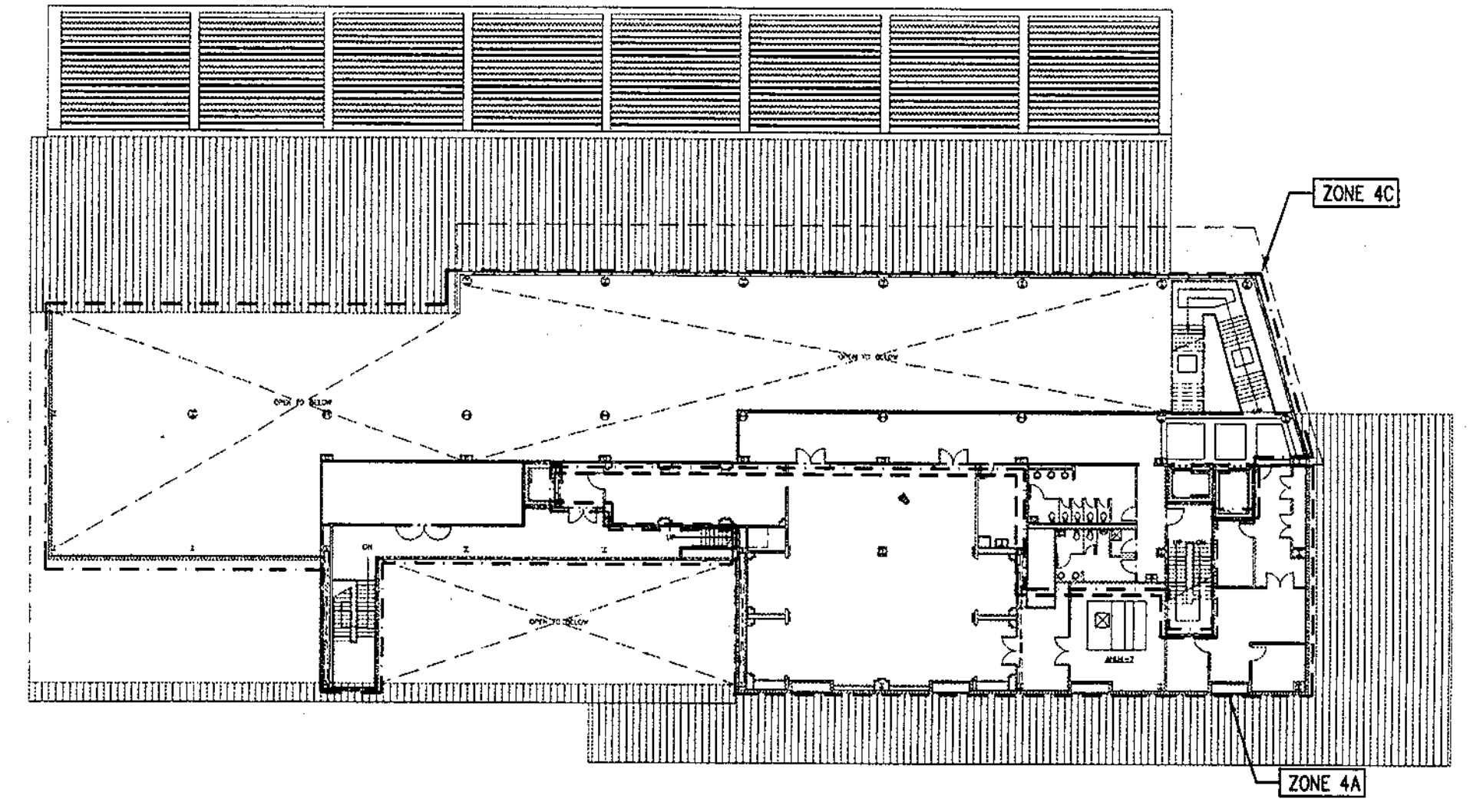
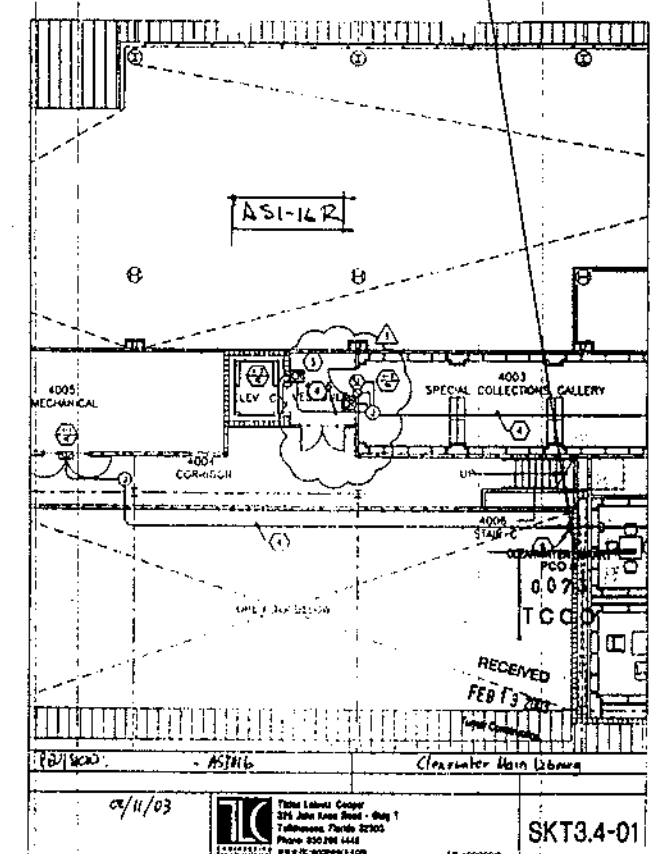
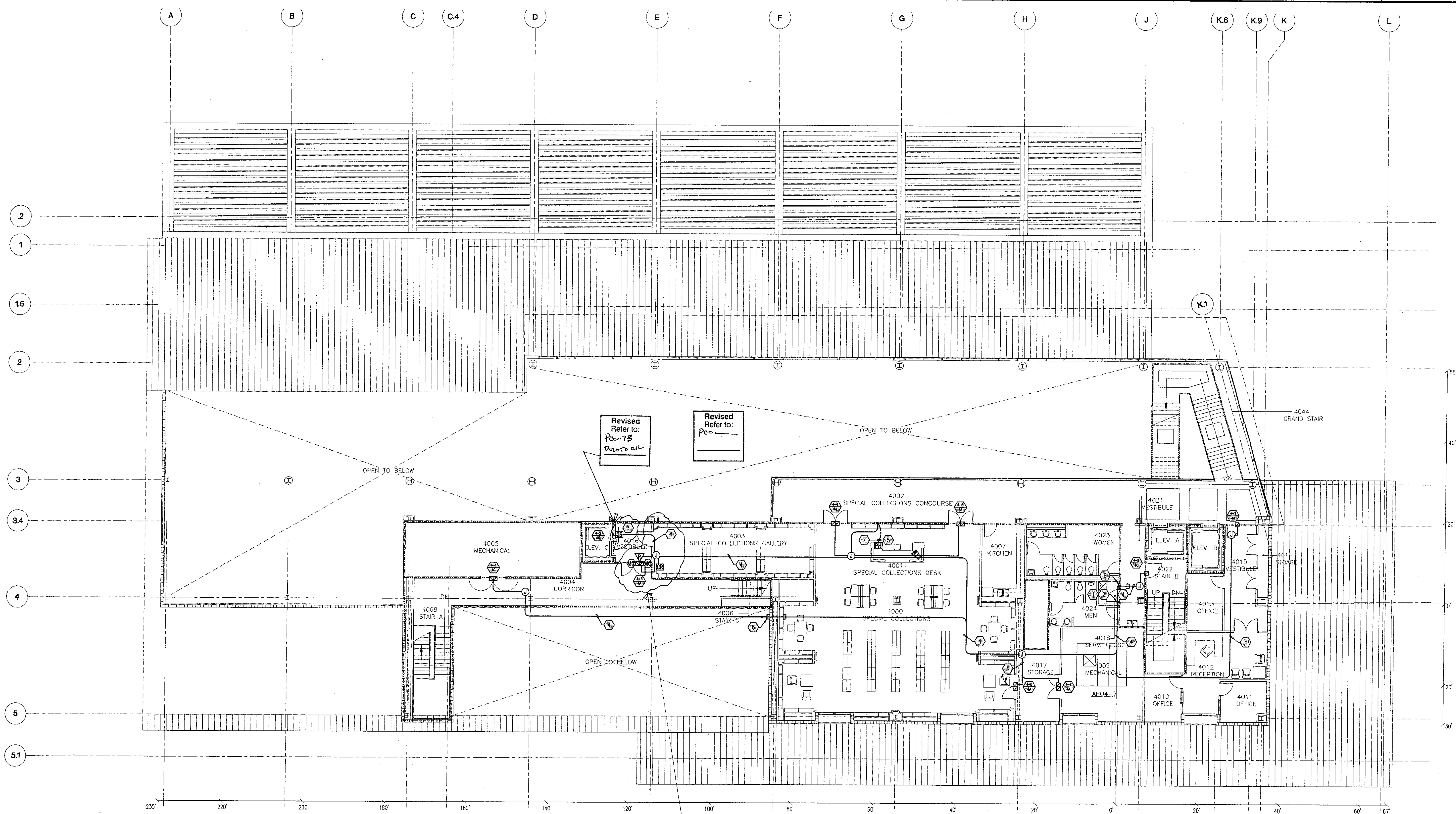
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**T3.3**



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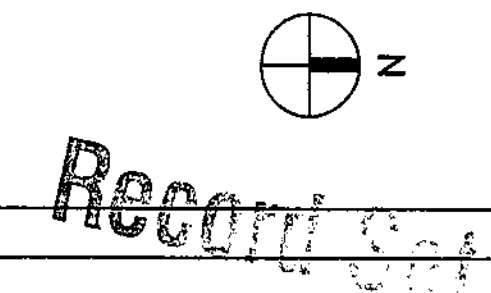




FOURTH FLOOR - ZONE PLAN - SECURITY

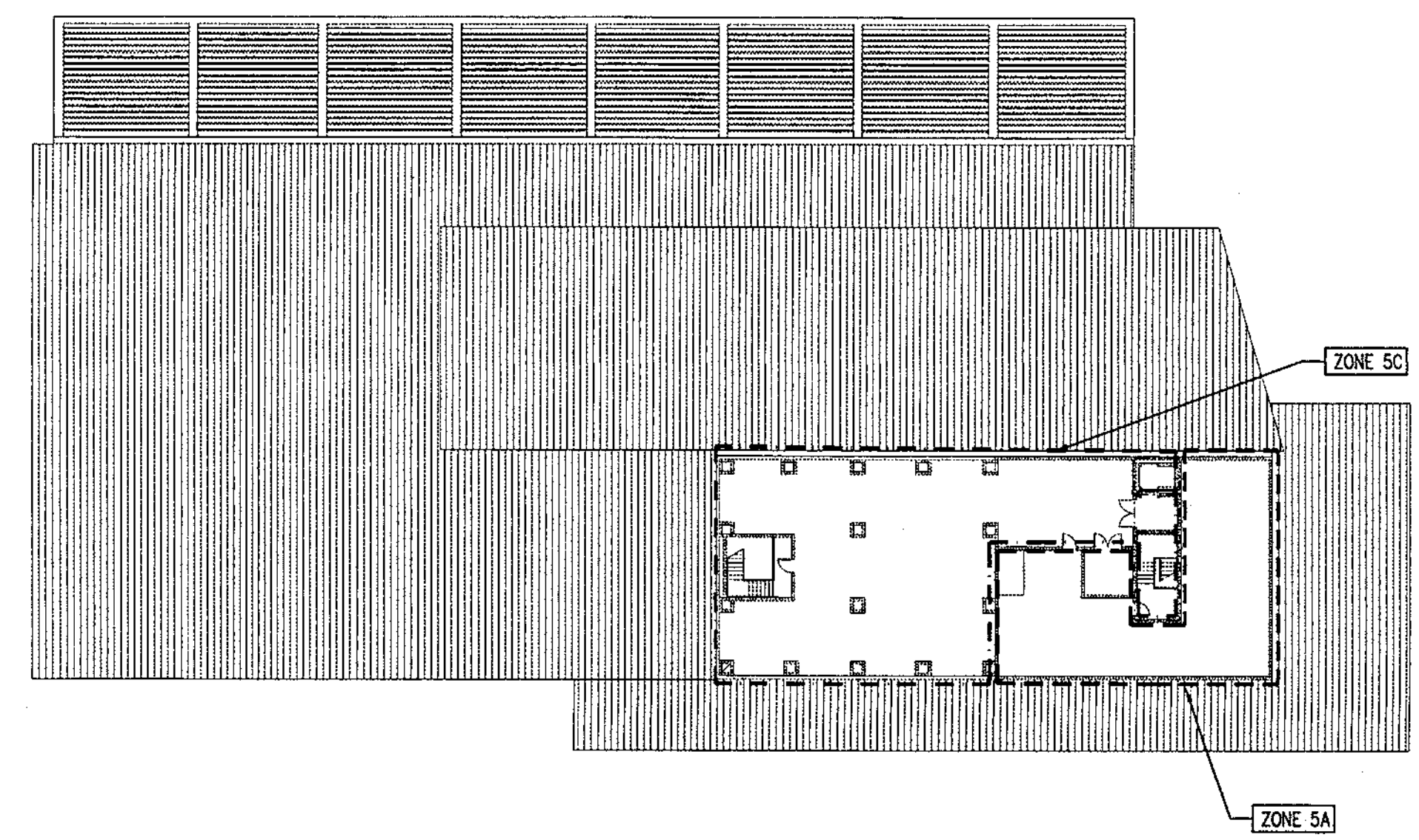
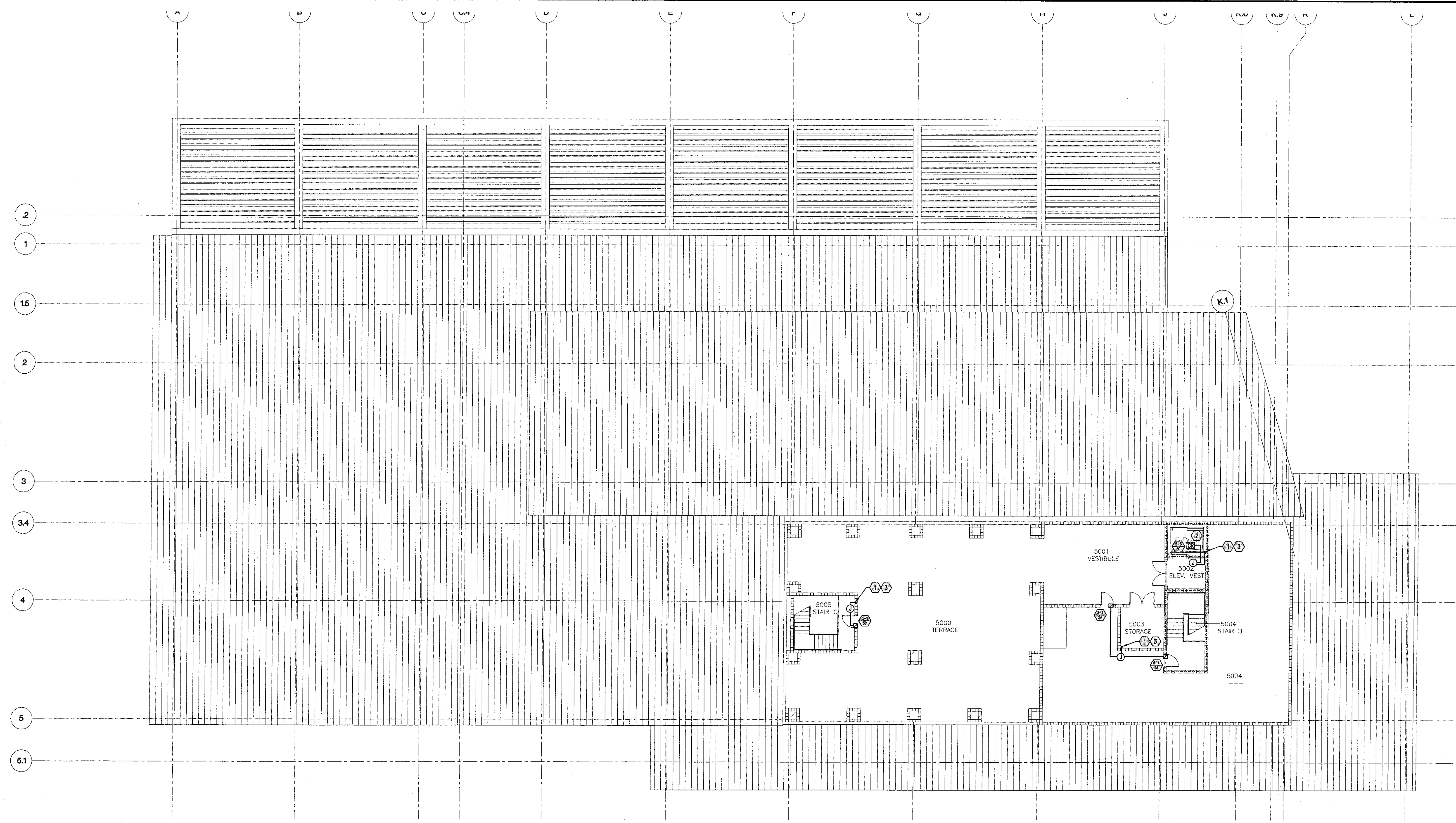
FOURTH FLOOR PLAN - SECURITY  
 SCALE: 3/32"=1'-0"

- GENERAL NOTES**
- REFER TO GENERAL NOTES ON SHEET T3.1.
- PLAN NOTES**
- CONDUIT CONNECTION FROM THIRD FLOOR SERVICE CLOSET TO ACCESSIBLE CEILING SPACE OF FOURTH FLOOR SERVICE CLOSET.
  - ROUTE SECURITY EQUIPMENT CABLING TO THIRD FLOOR VIA 2" CONDUIT.
  - CARD READER ACCESS TO ELEVATOR FROM FOURTH FLOOR REQUIRED.
  - ROUTE SECURITY CABLING TO DESIGNATED CONTROL MODULE VIA EXISTING CABLE TRAY AND PLENUM SUPPORT DEVICES.
  - COORDINATE PLACEMENT OF PANIC HARDWARE WITH DESK FURNITURE. ROUTE SECURITY CABLING TO DESIGNATED CONTROL MODULE VIA EXISTING CABLE TRAY AND PLENUM SUPPORT DEVICES.
  - 2" CONDUIT SLEEVES FOR SECURITY CABLING.
  - 1" CONDUIT FOR SECURITY CABLING FROM PANIC HARDWARE TO STUB INTO CEILING SPACE.



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PENTHOUSE - ZONE PLAN - SECURITY

GENERAL NOTES	PLAN NOTES
1. REFER TO GENERAL NOTES ON SHEET T3.1.	① 1" CONDUIT TO FOURTH FLOOR CEILING SPACE.
	② CARD READER ACCESS TO MEZZANINE REQUIRED.
	③ ROUTE CABLING FOR MOTION SENSOR TO DESIGNATED CONTROL MODULE VIA EXISTING CABLE TRAY AND PLENUM SUPPORT DEVICES.

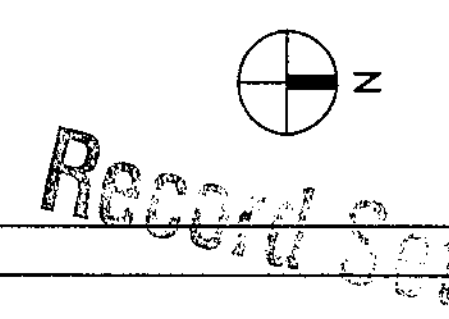
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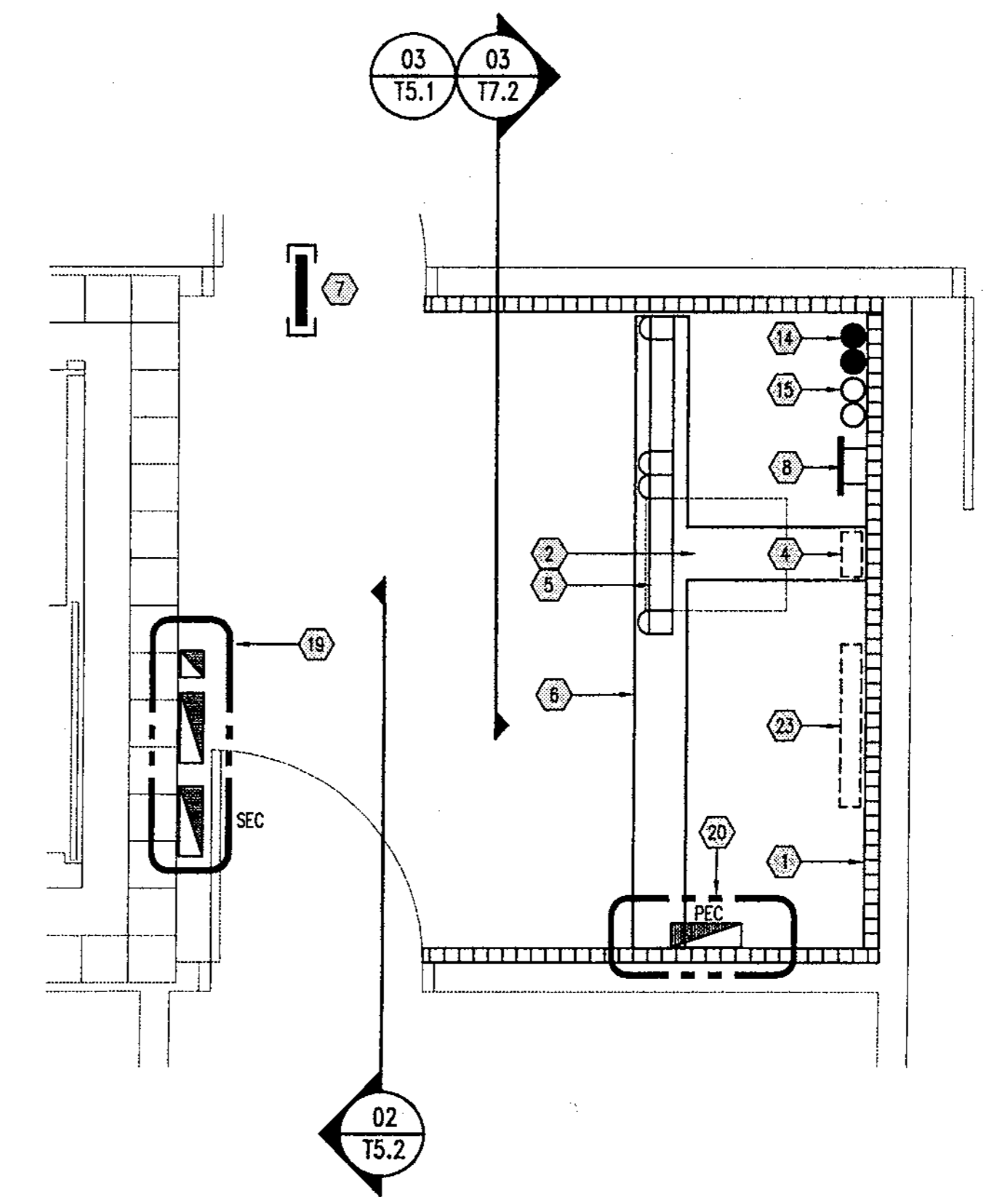
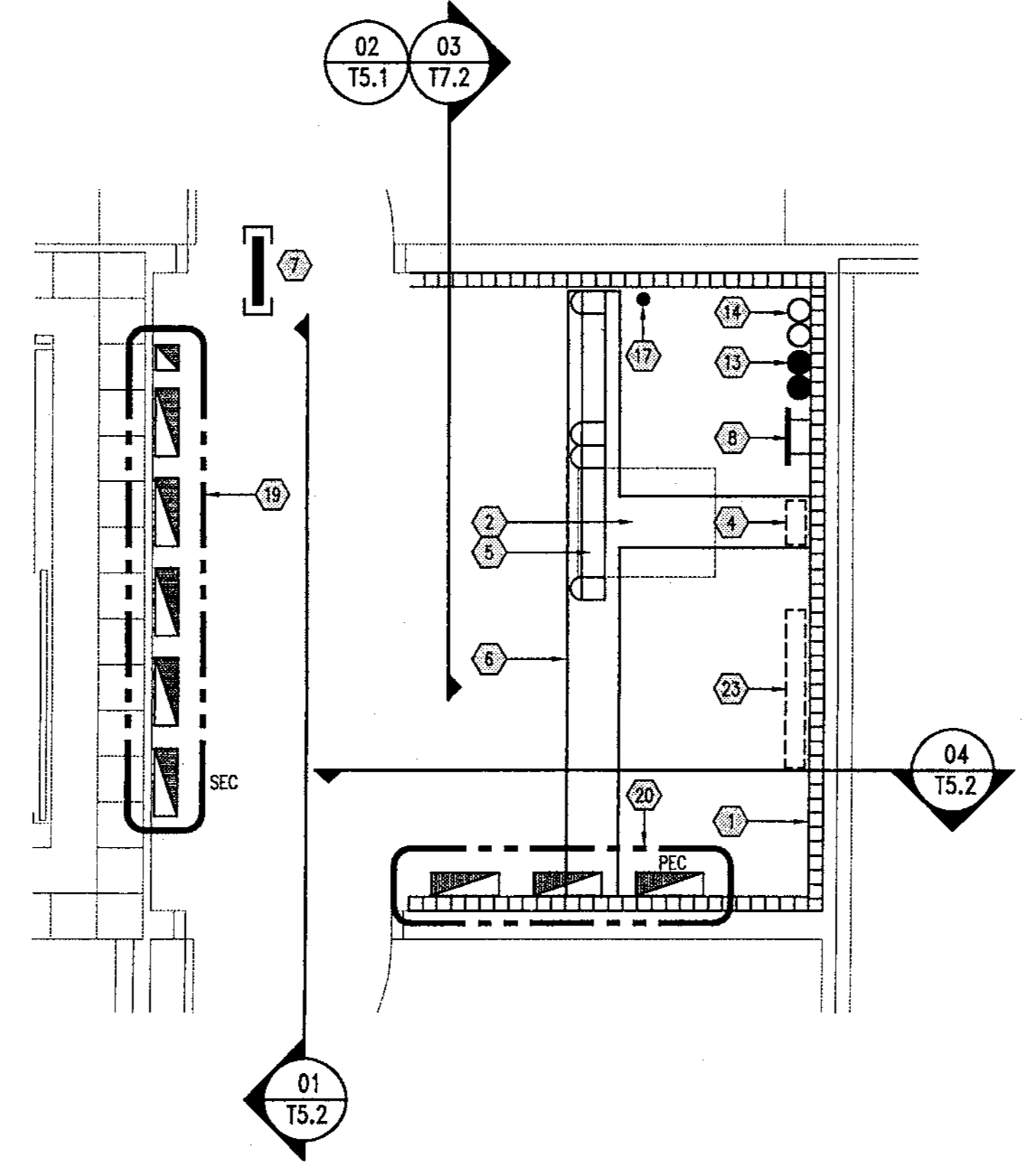
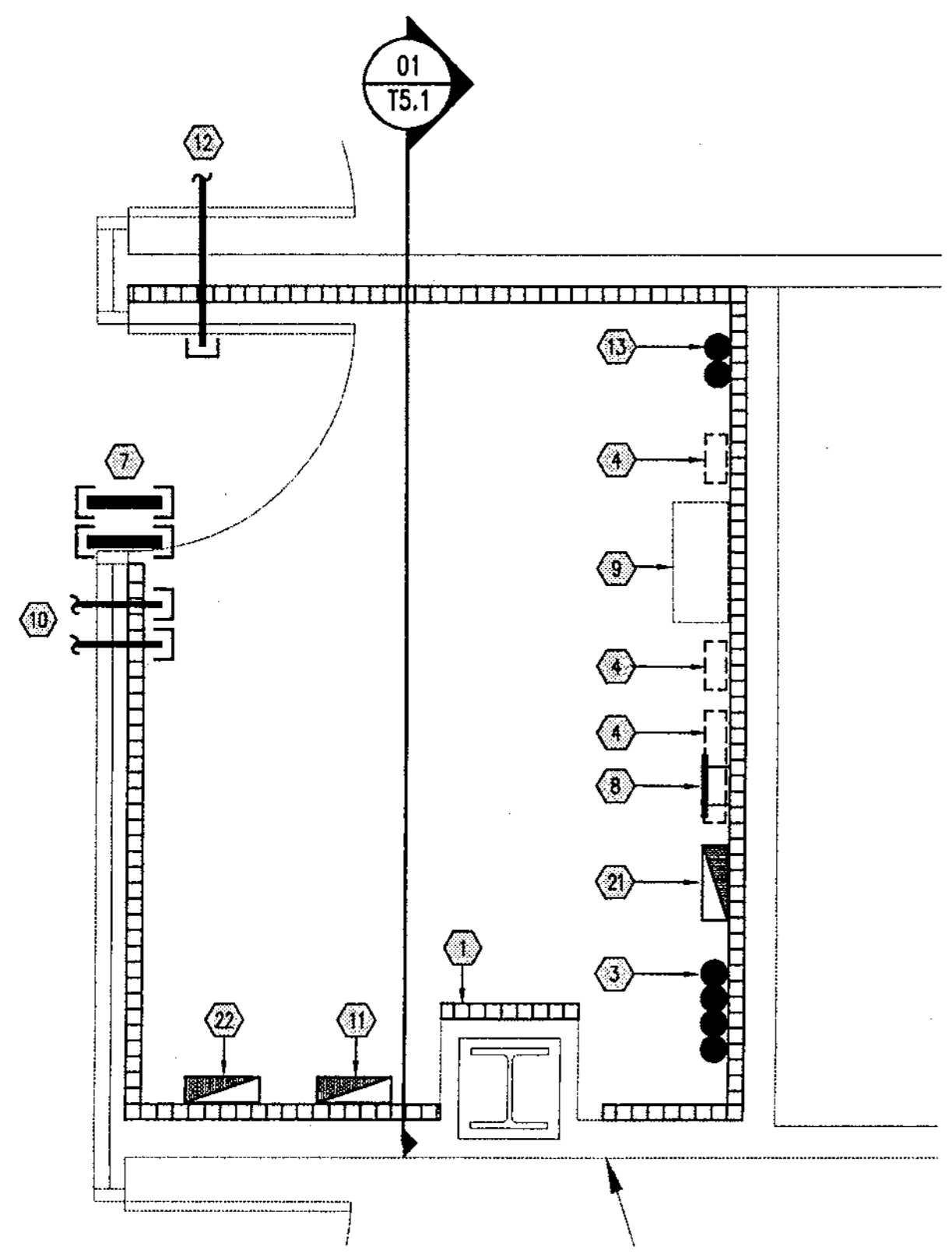
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T3.5



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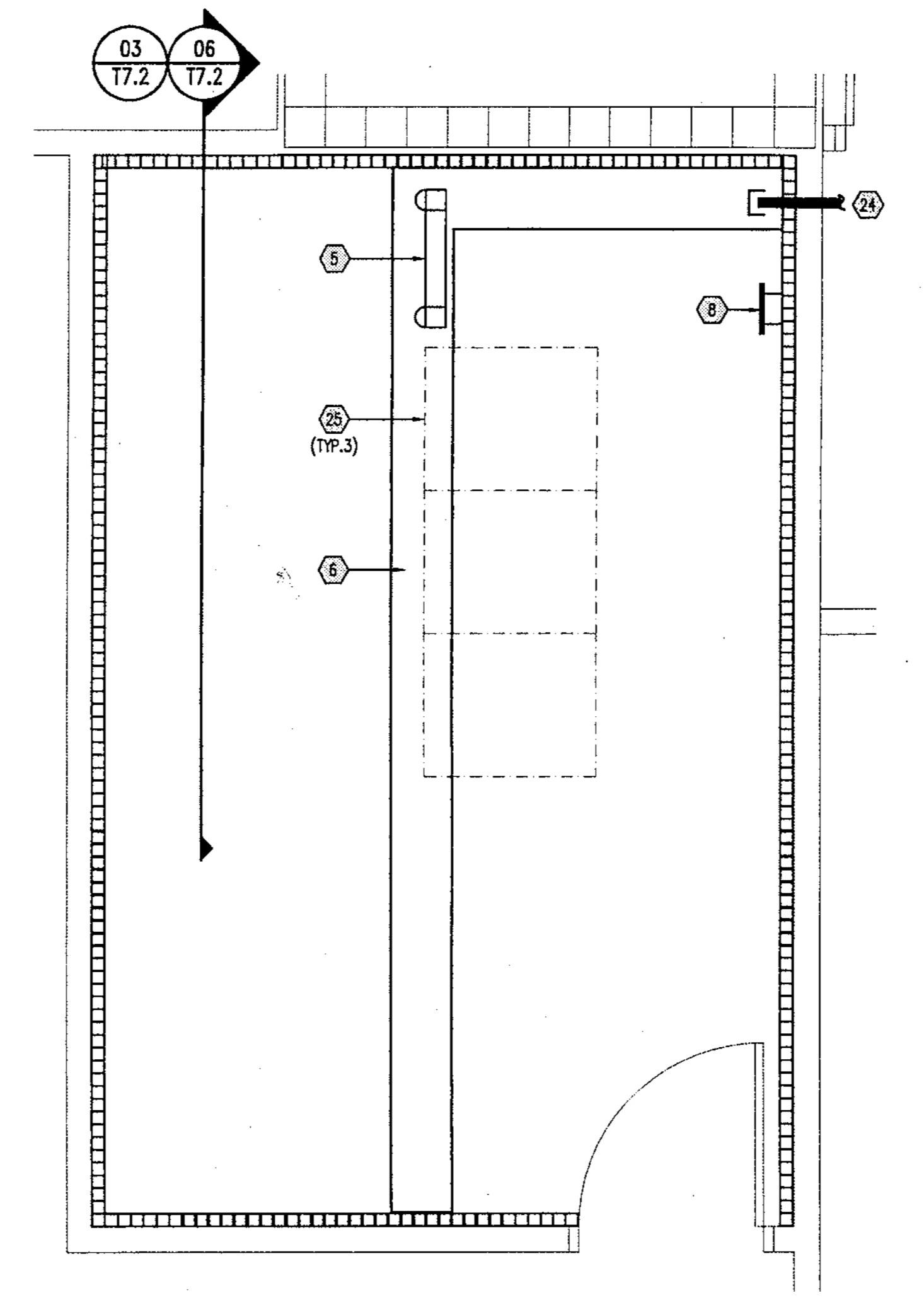
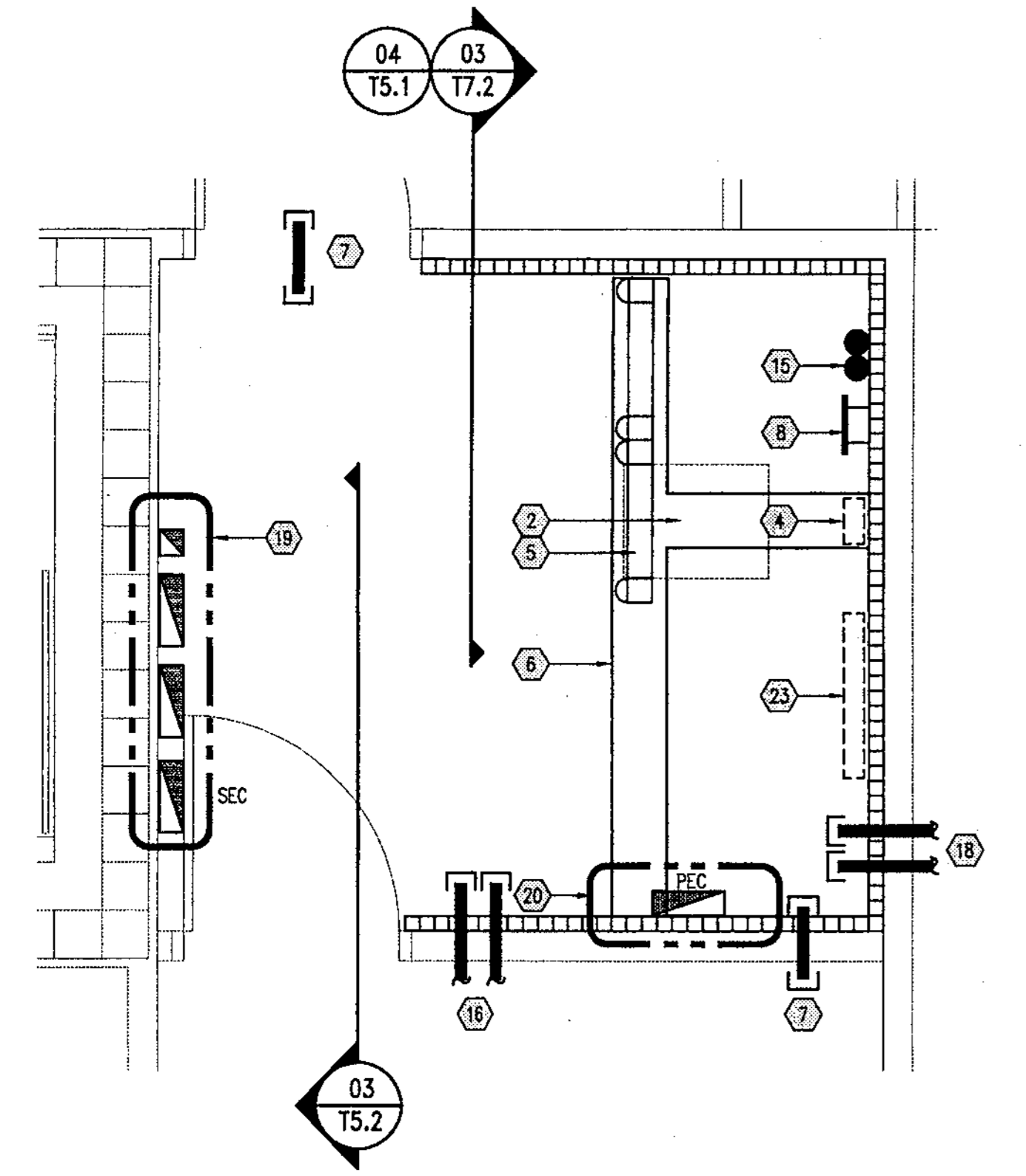




01 ENLARGED PLAN - EF/MC  
 RM 1039  
 SCALE: 1/2" = 1'-0"

02 ENLARGED PLAN - TR 1-1  
 RM 1009  
 SCALE: 1/2" = 1'-0"

03 ENLARGED PLAN - TR 2-1  
 RM 2007  
 SCALE: 1/2" = 1'-0"



04 ENLARGED PLAN - TR 3-1  
 RM 3007  
 SCALE: 1/2" = 1'-0"

05 ENLARGED PLAN - SERVER ROOM  
 RM 3012  
 SCALE: 1/2" = 1'-0"

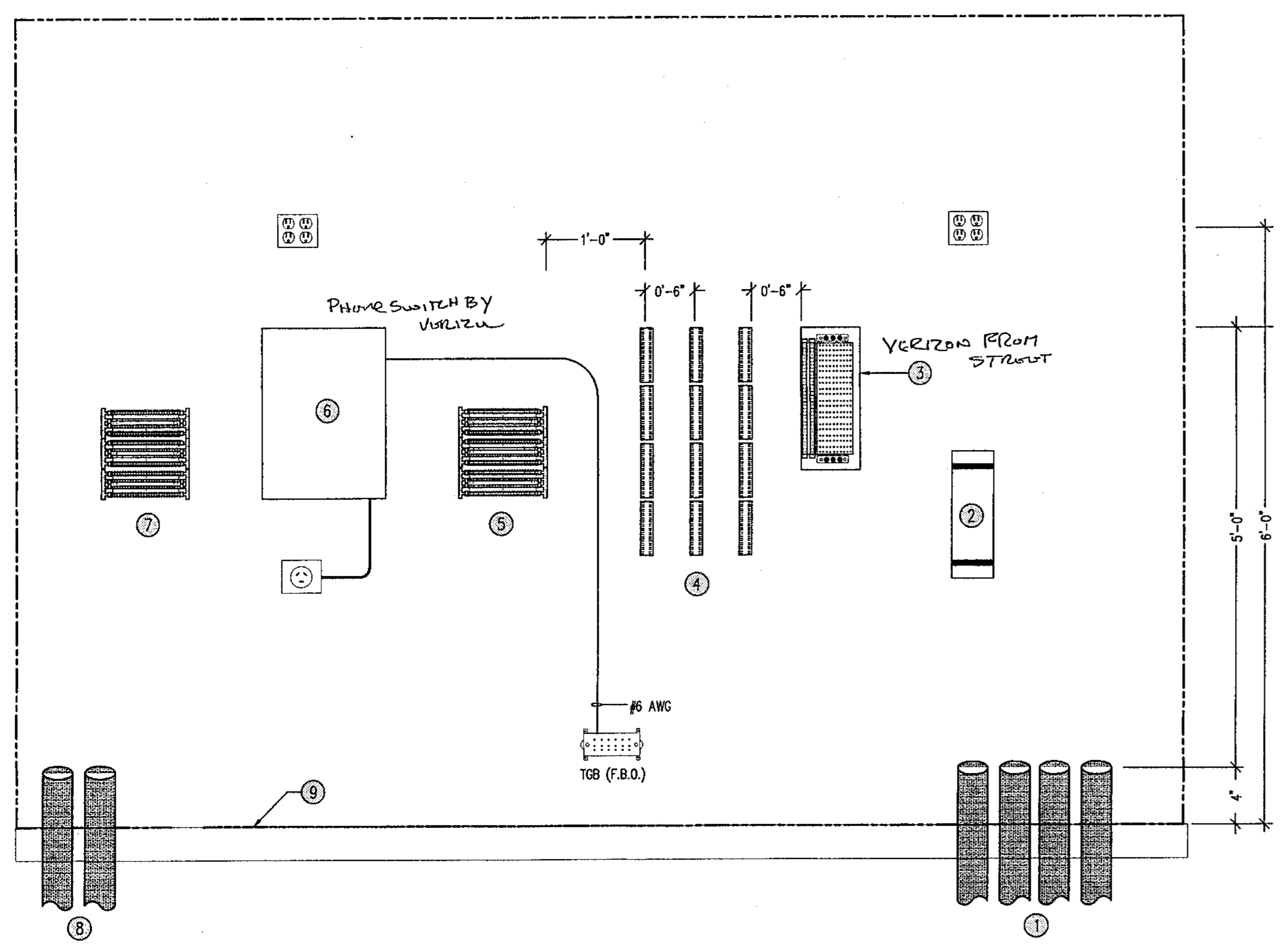
- GENERAL NOTES:
- 1 3/4" TYPE A/C PLYWOOD BACKBOARD WITH FIRE RESISTANT PAINT.
  - 2 OWNER FURNISHED NETWORK EQUIPMENT.
  - 3 4" CONDUITS FOR TELECOMMUNICATIONS SERVICE ENTRANCE.
  - 4 VOICE PUNCH DOWN BLOCKS.
  - 5 19" EQUIPMENT RACKS WITH VERTICAL WIRE MANAGEMENT.
  - 6 12" CABLE RUNWAY MOUNTED ABOVE EQUIPMENT RACK @ 84" AFF.
  - 7 4" CONDUIT SLEEVES (TYPICAL).
  - 8 TELECOMMUNICATIONS GROUNDING BUSBAR.
  - 9 TELEPHONE SWITCH (F.B.O.).
  - 10 DEDICATED 1" CONDUITS TO ELEVATOR MACHINERY ROOM.
  - 11 FIBER OPTIC SERVICE ENTRANCE ENCLOSURE.
  - 12 1" CONDUIT TO CAFE ROOM 1047 FOR FUTURE TENANT PHONE SERVICE CABLING.
  - 13 4" CONDUITS BETWEEN EF/MC AND TR 1-1 FOR VOICE AND DATA BACKBONE CABLING.
  - 14 4" CONDUITS BETWEEN TR 1-1 AND TR 2-1 FOR VOICE AND DATA BACKBONE CABLING.
  - 15 4" CONDUITS BETWEEN TR 2-1 AND TR 3-1 FOR VOICE AND DATA BACKBONE CABLING.
  - 16 4" CONDUITS BETWEEN TR 3-1 AND SERVER ROOM FOR DATA BACKBONE CABLING.
  - 17 1" CONDUIT TO CIRCULATION DESK FOR HORIZONTAL CABLING.
  - 18 4" CONDUITS TO FOURTH FLOOR CEILING SPACE VIA STORAGE ROOM.
  - 19 SECURITY EQUIPMENT TERMINATIONS.
  - 20 PAGING EQUIPMENT TERMINATIONS.
  - 21 PRIMARY BUILDING ENTRANCE PROTECTION (F.B.O.).
  - 22 CATV SERVICE ENTRANCE TERMINATION ENCLOSURE (12" W X 24" H X 6" D).
  - 23 CATV EQUIPMENT TERMINATIONS.
  - 24 4" SEGMENTED CONDUIT CONNECTION FOR FIBER OPTIC BACKBONE.
  - 25 OWNER PROVIDED EQUIPMENT RACK.

Record Set

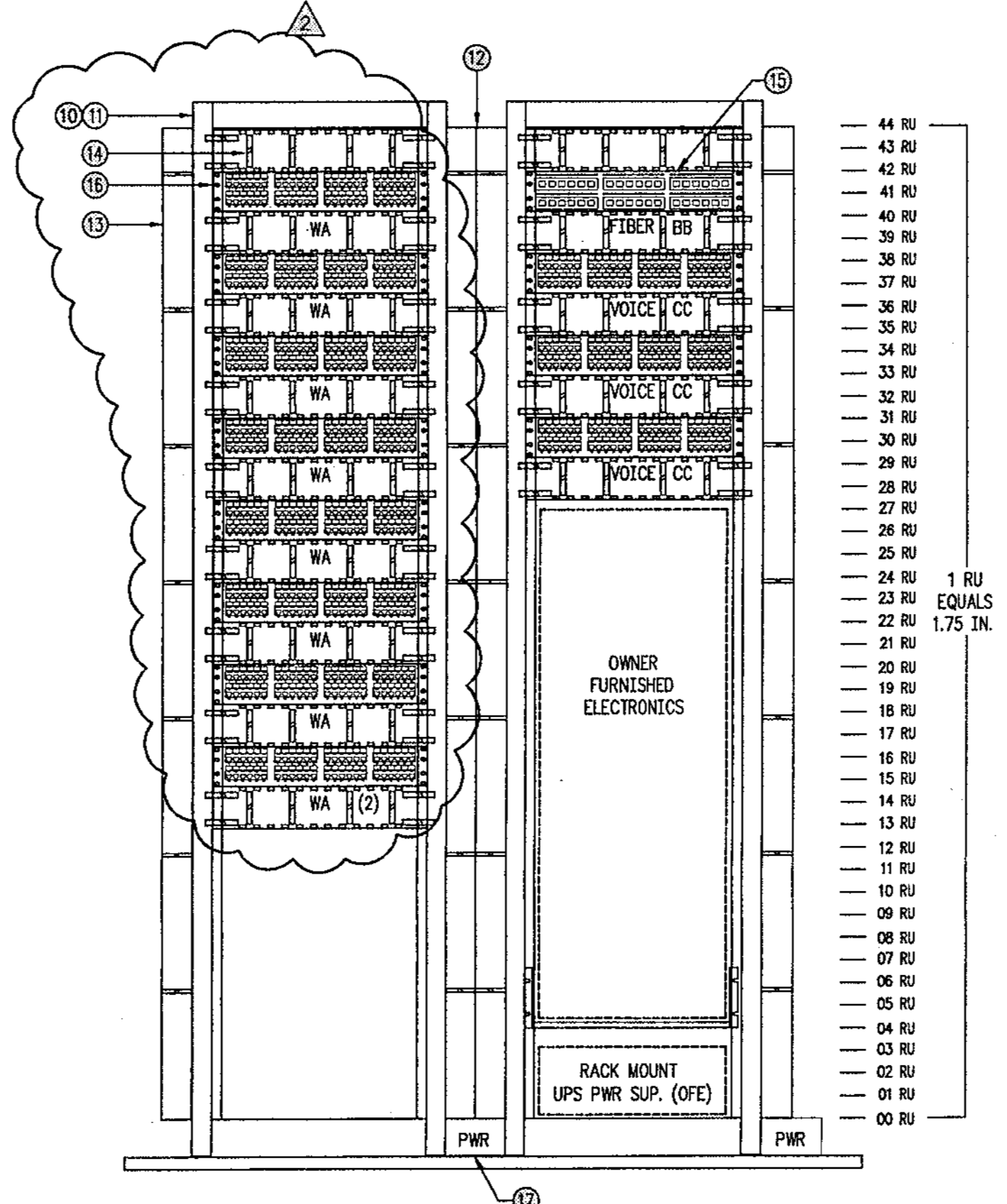
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- NOTES
- ① 4" CONDUITS FOR TELCO SERVICE ENTRANCE (TYP.)
  - ② TRANSITION SPLICE ENCLOSURE (U.S.C.)
  - ③ PRIMARY PROTECTION FIELD (U.S.C.)
  - ④ DEMARC (U.S.C.)
  - ⑤ PBX FIELD (SERVICE SIDE)
  - ⑥ PBX (U.S.C.)
  - ⑦ PBX DISTRIBUTION FIELD (U.S.C.)
  - ⑧ 4" CONDUITS TO TR 1-1 FOR BACKBONE CABLING (TYP.)
  - ⑨ 3/4" TYPE A/C PLYWOOD BACKBOARD WITH FIRE RESISTANT PAINT.
  - ⑩ 18" X 84" FREE STANDING, FLOOR MOUNTED EQUIPMENT RACK. DESIGN SELECTION: (CPI #5004-703)
  - ⑪ PROVIDE (1) MODULAR PATCH PANEL GROUNDING KIT FOR EACH RACK. DESIGN SELECTION: (PANDUIT #RGS191)
  - ⑫ PROVIDE DOUBLE-SIDED WIDE VERTICAL CABLING SECTION. DESIGN SELECTION: (CPI #11729-703).
  - ⑬ PROVIDE DOUBLE-SIDED NARROW VERTICAL CABLING SECTION. DESIGN SELECTION: (CPI #12098-703).
  - ⑭ PROVIDE 2RU HORIZONTAL CABLING SECTION. (TYPICAL) DESIGN SELECTION: (PANDUIT #PMH2W)
  - ⑮ PROVIDE 36 PORT MODULAR FIBER TERMINATION PANEL. DESIGN SELECTION: (PANDUIT #FME36EB). 3C DUPLEX ADAPTER PLATE. (PANDUIT #AP6W30C)
  - ⑯ PROVIDE 48 PORT MODULAR PATCH PANELS (TYPICAL). DESIGN SELECTION: (PANDUIT #PP48C6810U).
  - ⑰ UPS POWER CONNECTION BY DIV. 16 CONTRACTOR. (TYP.)



1. COORDINATE LOCATION OF PBX WITH OWNER.
2. REFER TO RISER DIAGRAM FOR CONNECTIVITY.

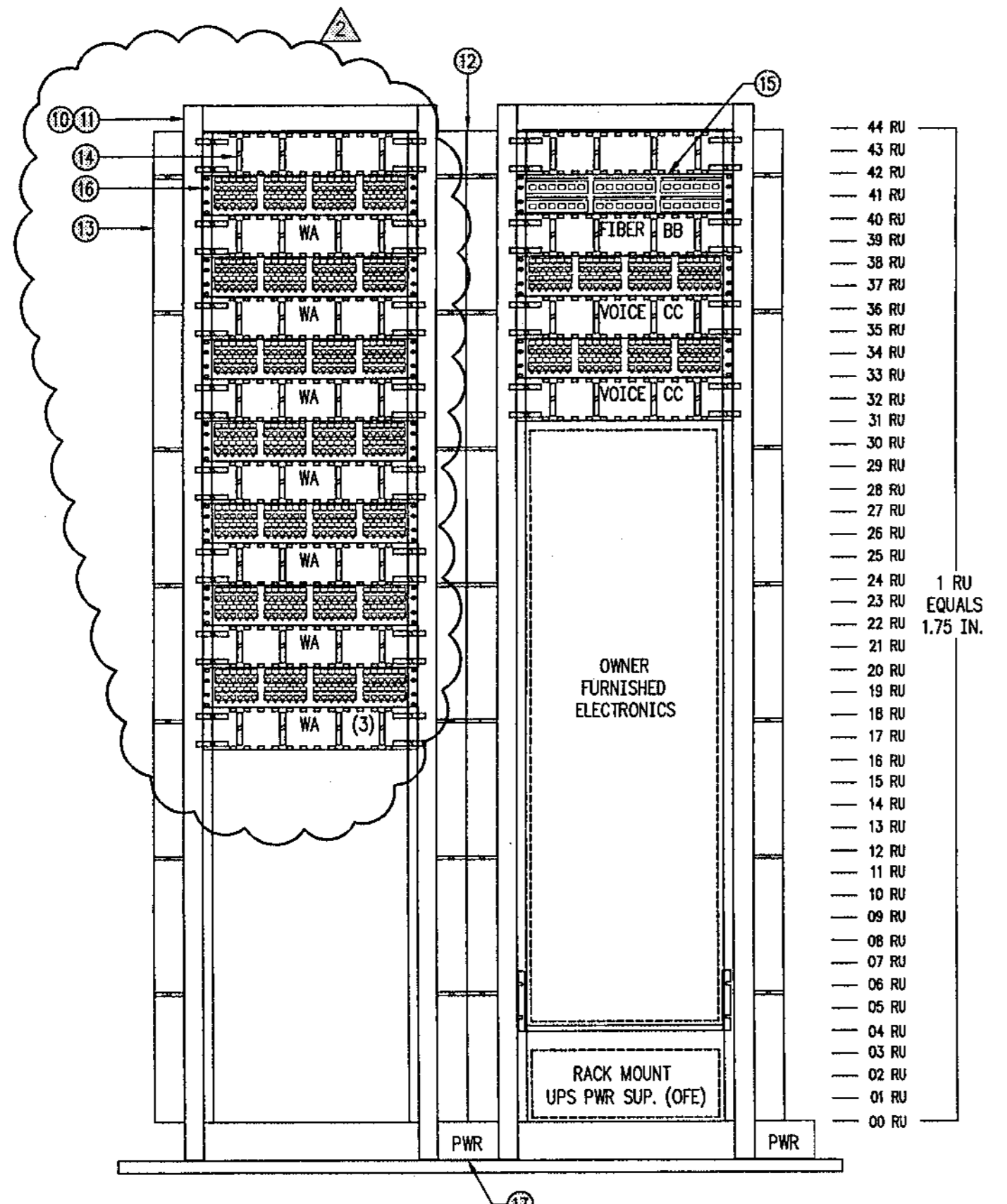


01 COMMUNICATIONS ROOM - EF/MC

SCALE: NONE EF

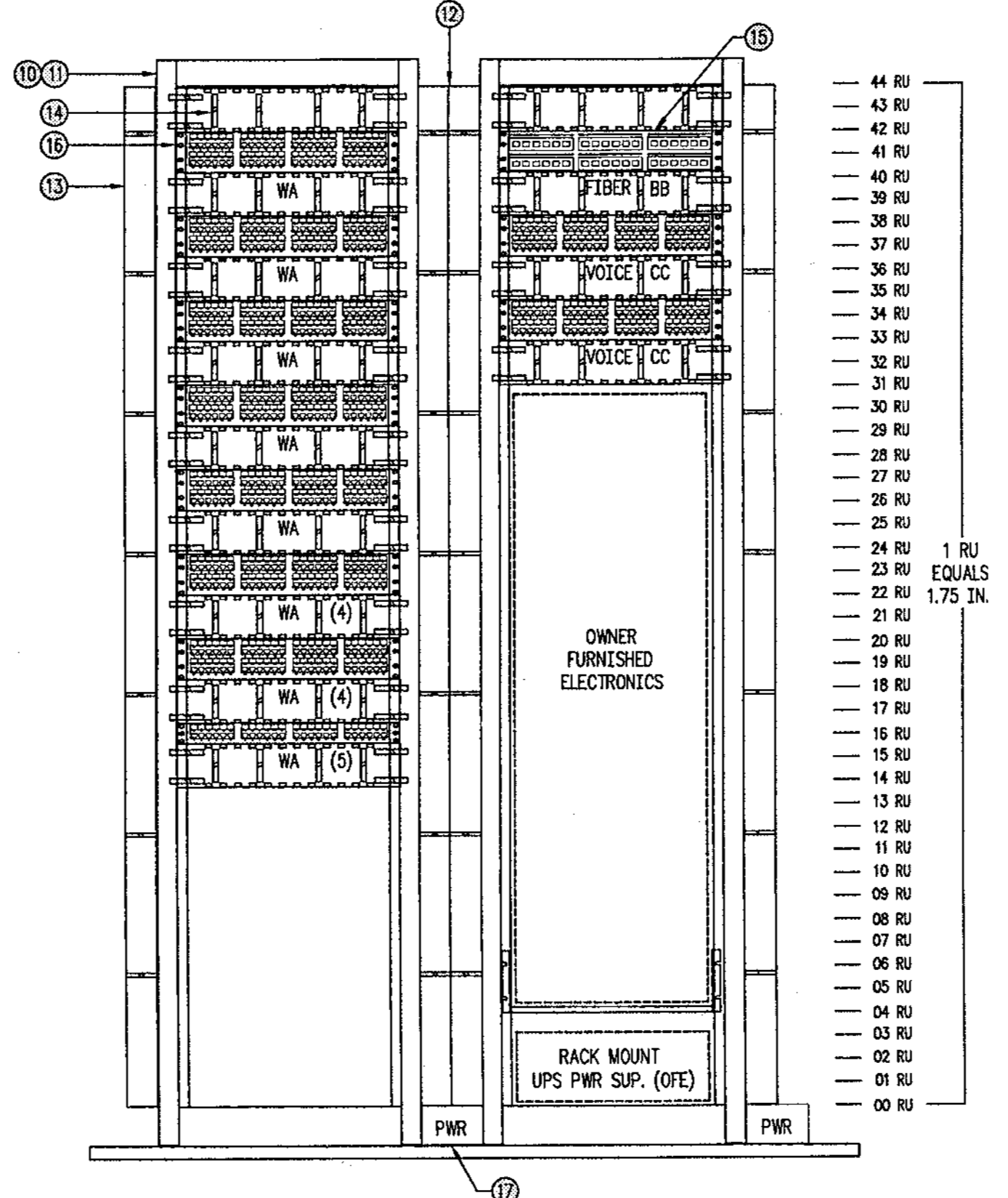
02 ELEVATION - TR 1-1

SCALE: NONE ROOM 1009



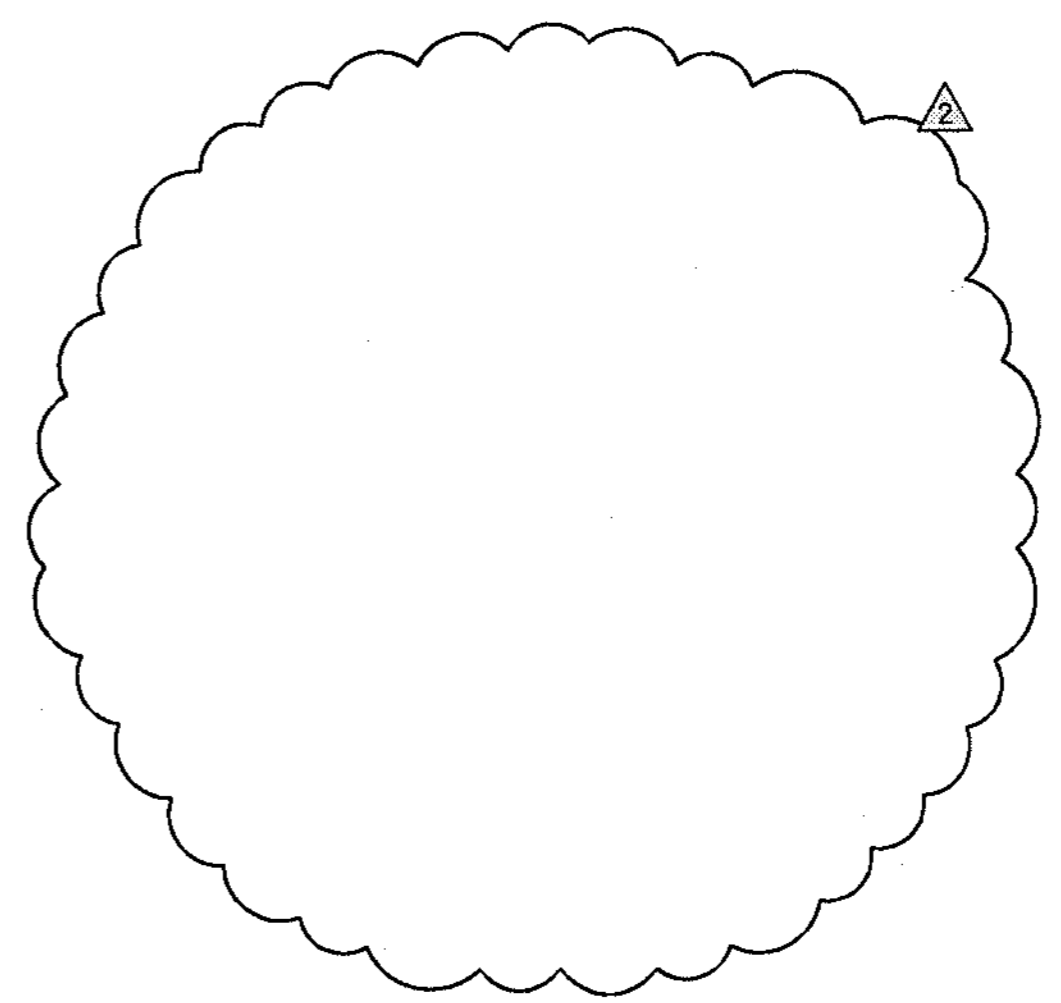
03 ELEVATION - TR 2-1

SCALE: NONE ROOM 2007  
 ELEVATIONS - SYSTEMS  
 SCALE: NONE



04 ELEVATION TR 3-1

SCALE: NONE RM 3007



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T5.1

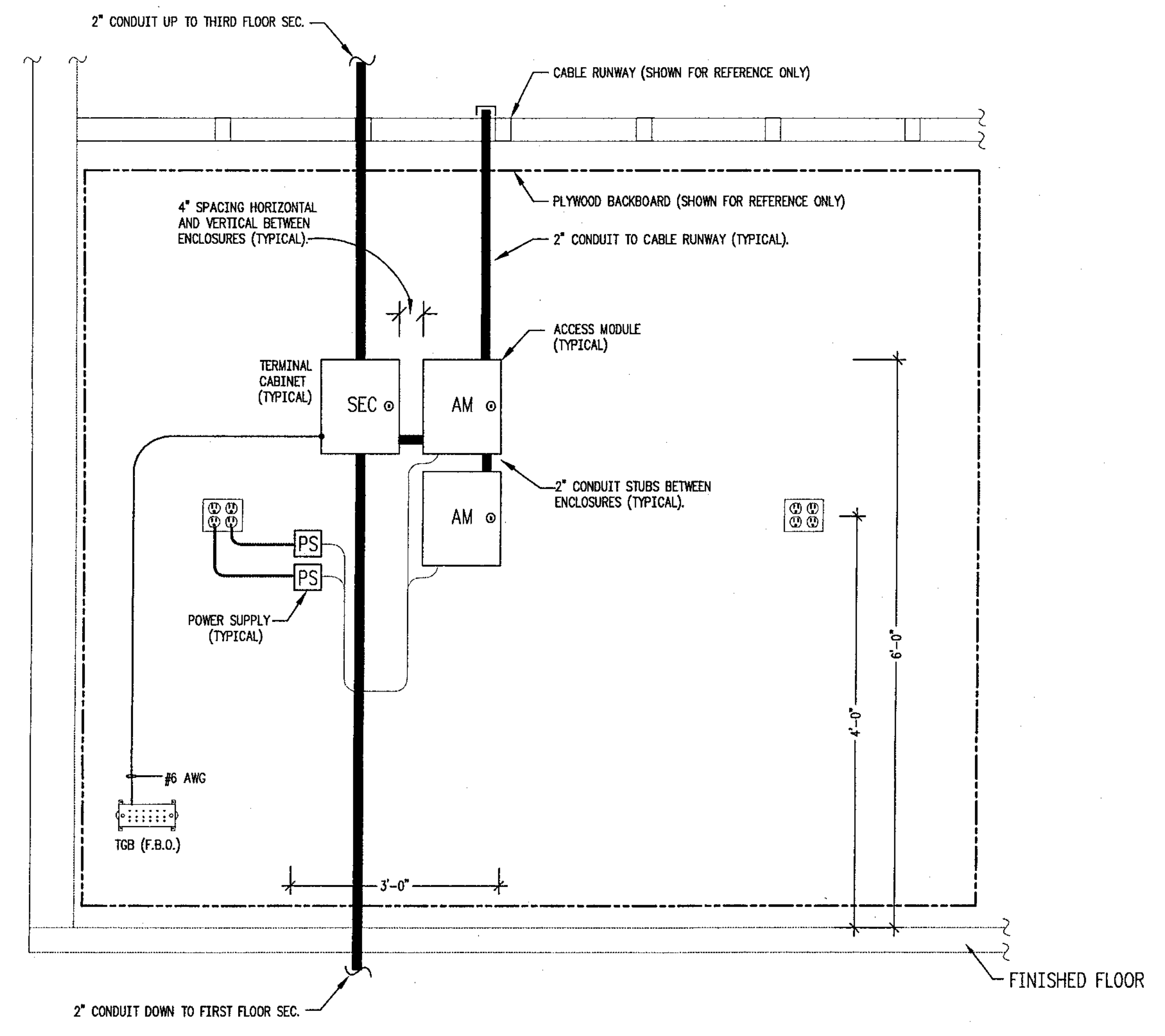
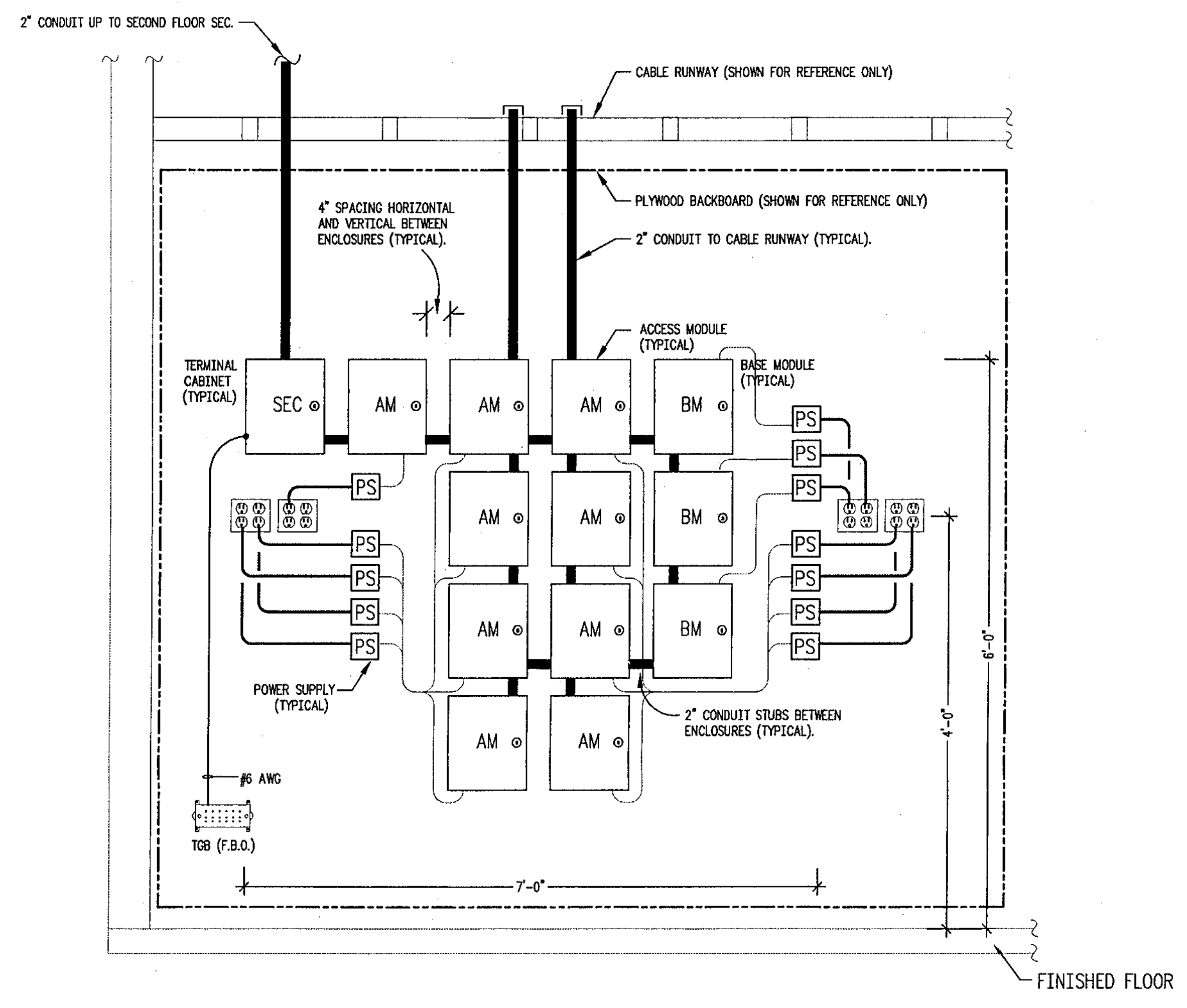
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**GENERAL NOTES**

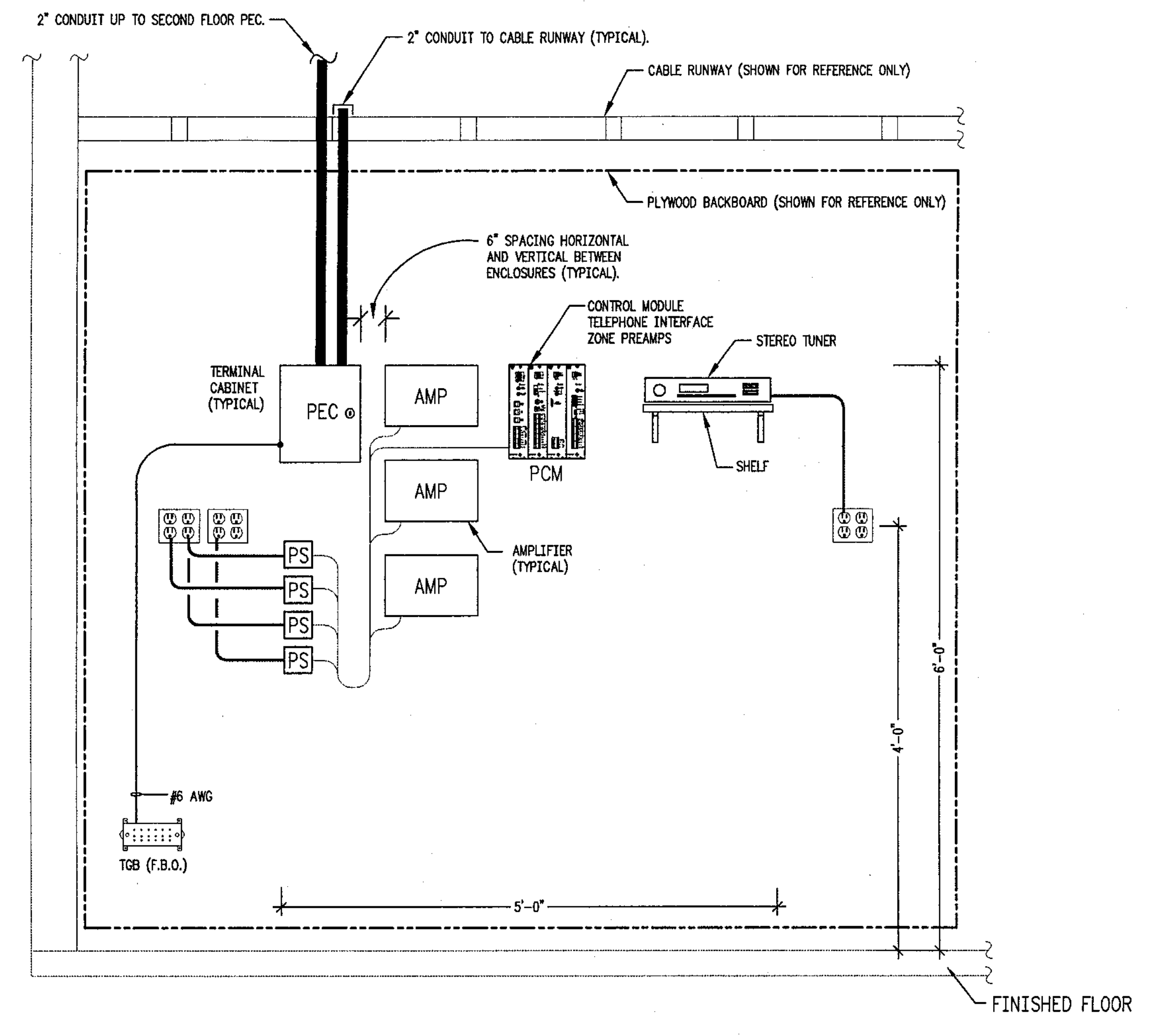
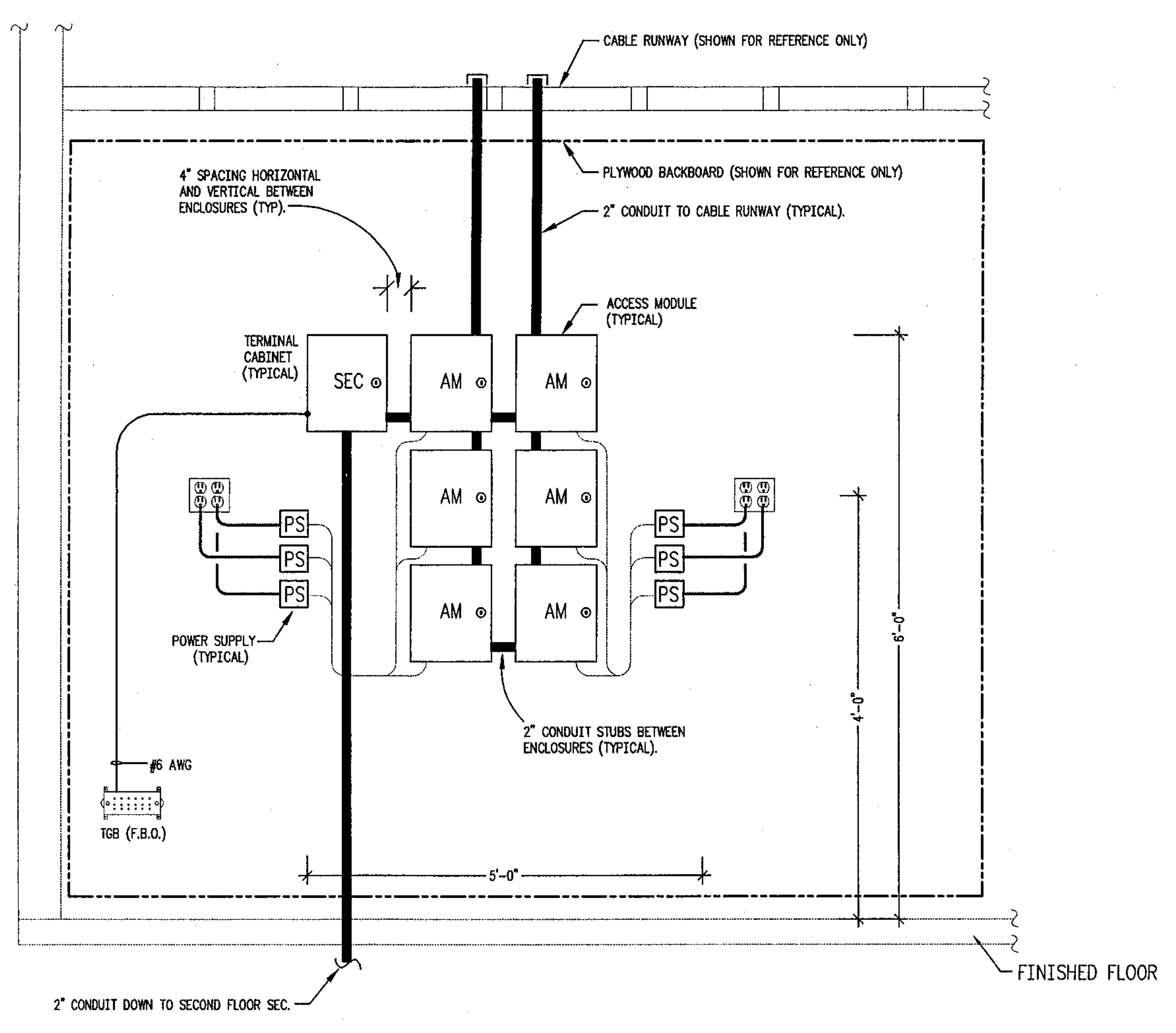
① REFER TO GENERAL NOTES ON SHEET T0.1.

② POWER RECEPTACLES SHALL BE PROVIDED BY THE DIVISION 16 CONTRACTOR. COORDINATE FINAL POWER REQUIREMENTS WITH THE ENGINEER.



01 ELEVATION - SECURITY PANEL TERMINATION WALL TR 1-1

02 ELEVATION - SECURITY PANEL TERMINATION WALL TR 2-1



03 ELEVATION - SECURITY PANEL TERMINATION WALL TR 3-1

04 ELEVATION - PAGING TERMINATION WALL TR 1-1

ELEVATIONS - SYSTEMS  
 SCALE: NONE

Record Set

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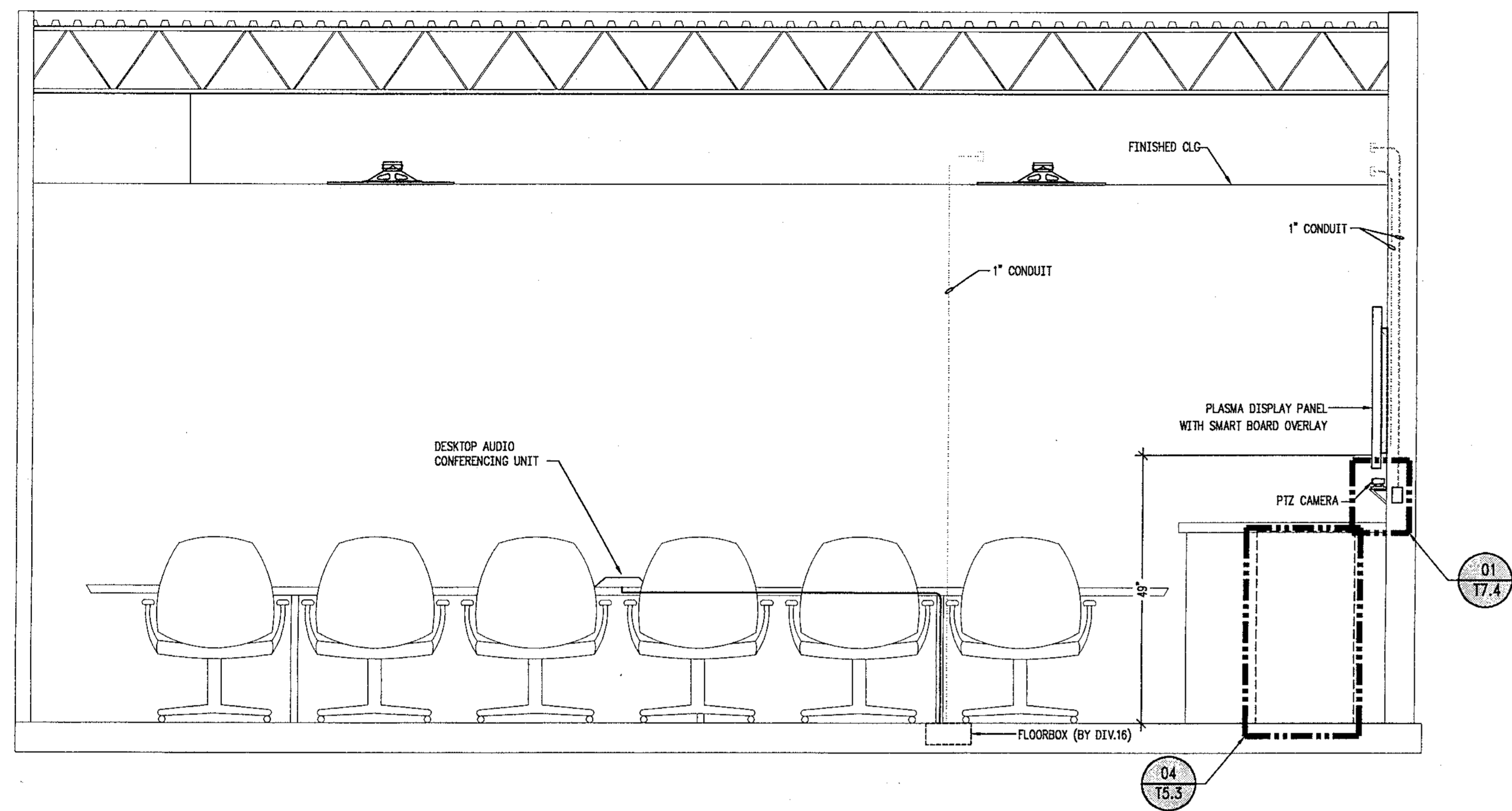
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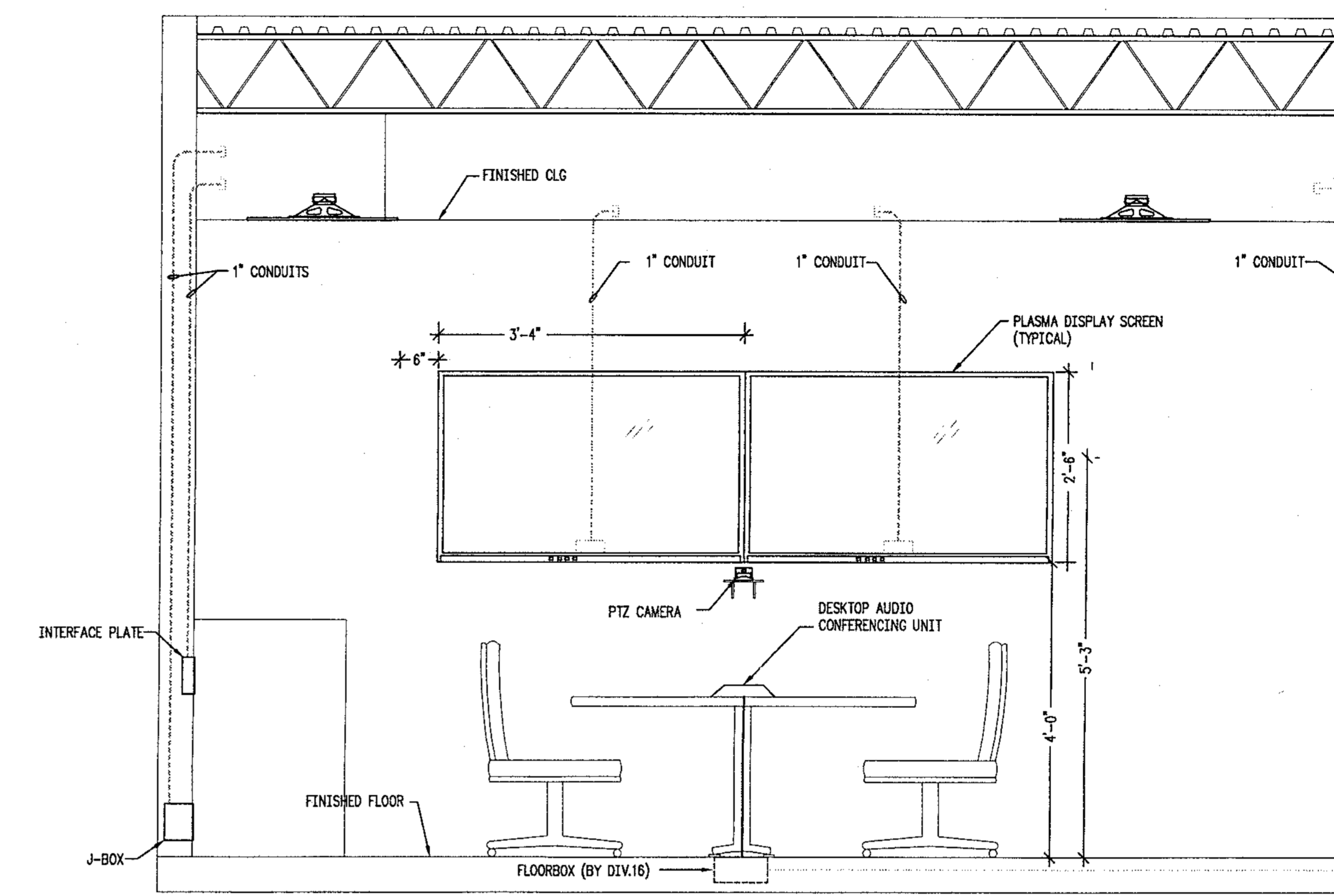
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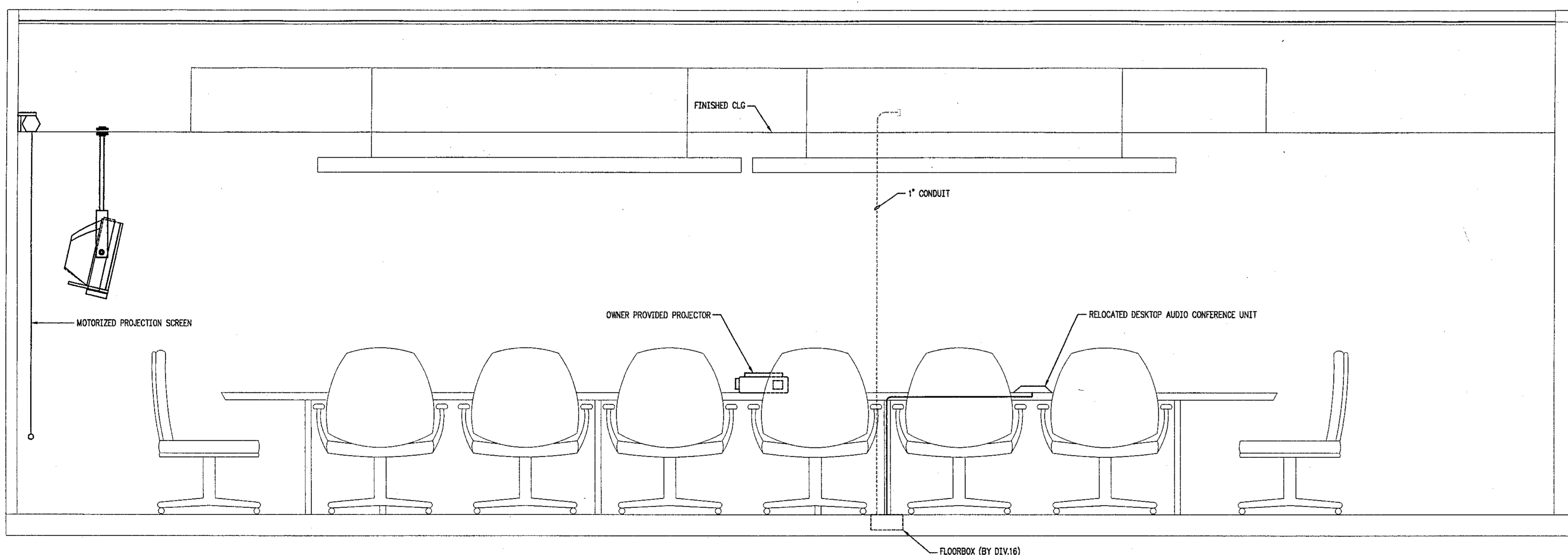




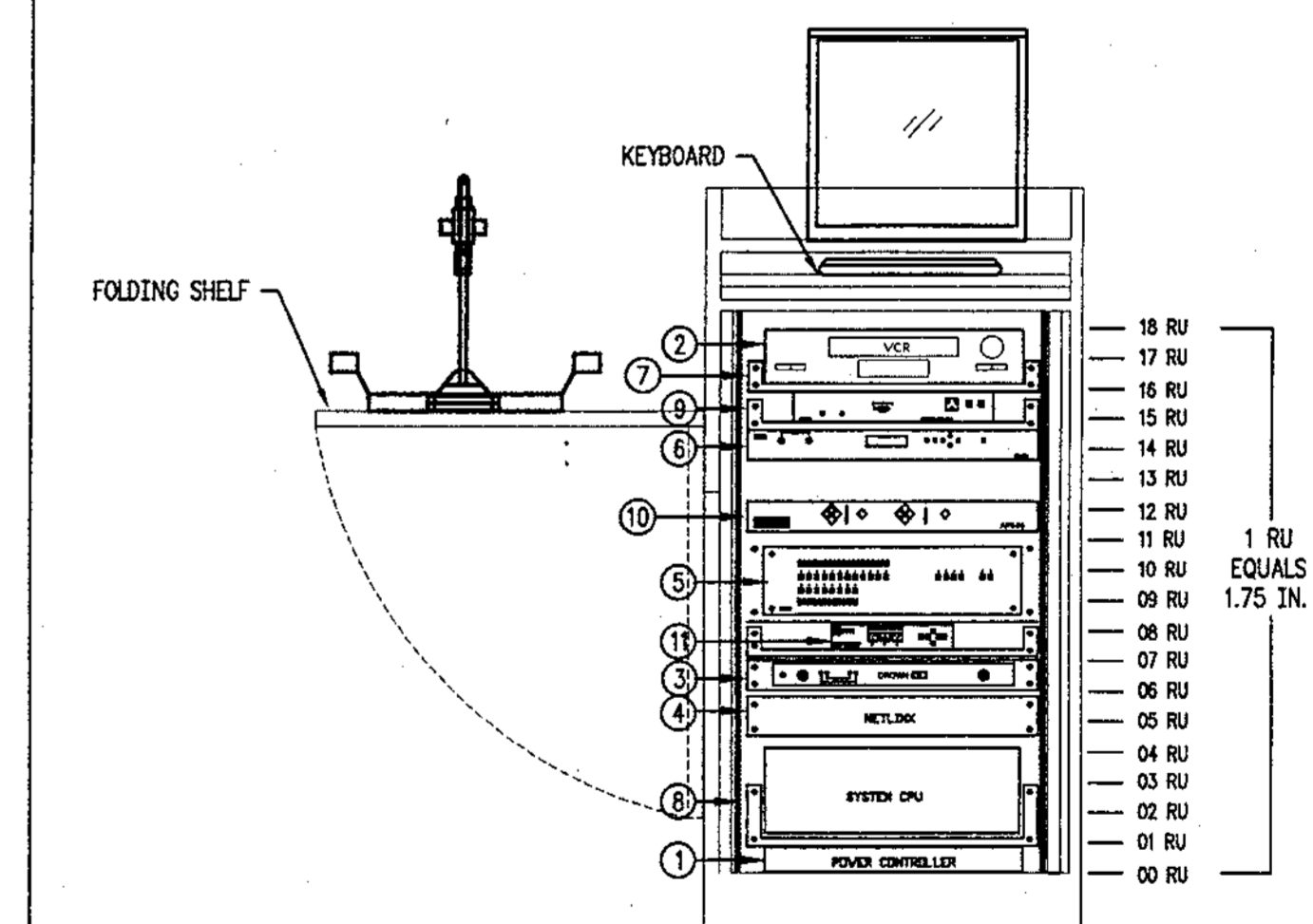
**01** ELEVATION - VIDEO CONFERENCE ROOM  
 SCALE: NONE SIDE VIEW



**02** ELEVATION - VIDEO CONFERENCE ROOM  
 SCALE: NONE END VIEW



**03** ELEVATION - BOARD ROOM 2038 #  
 SCALE: NONE SIDE VIEW



**RACK EQUIPMENT SCHEDULE:**

① POWER CONTROLLER	⑩ MICROPHONE MIXER
② SVHS HI-PI VCR	⑪ VIDEO SCALER
③ MIXER/AMPLIFIER	
④ AMX NETLINK NXI INTEGRATED CONTROLLER	
⑤ SWITCHER	
⑥ SCAN CONVERTER	
⑦ 2RU RACK SHELF	
⑧ MARSHALL MLC0-30	
⑨ DISTRIBUTION AMP	

**04** PRESENTATION PODIUM  
 SCALE: NONE SIDE VIEW

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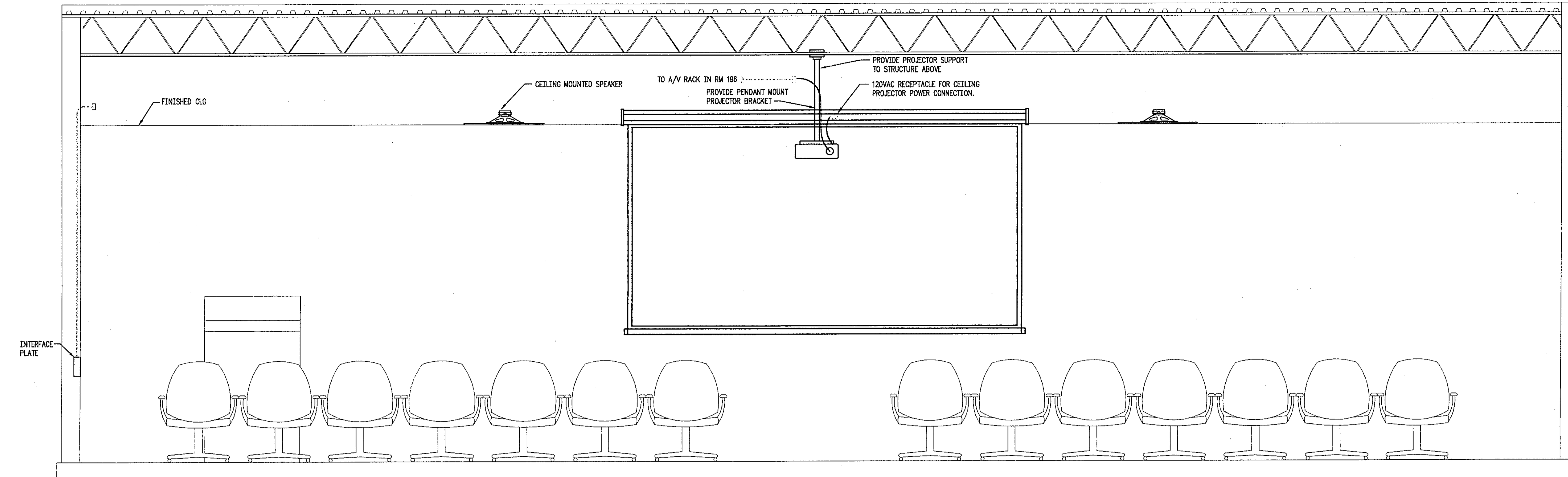
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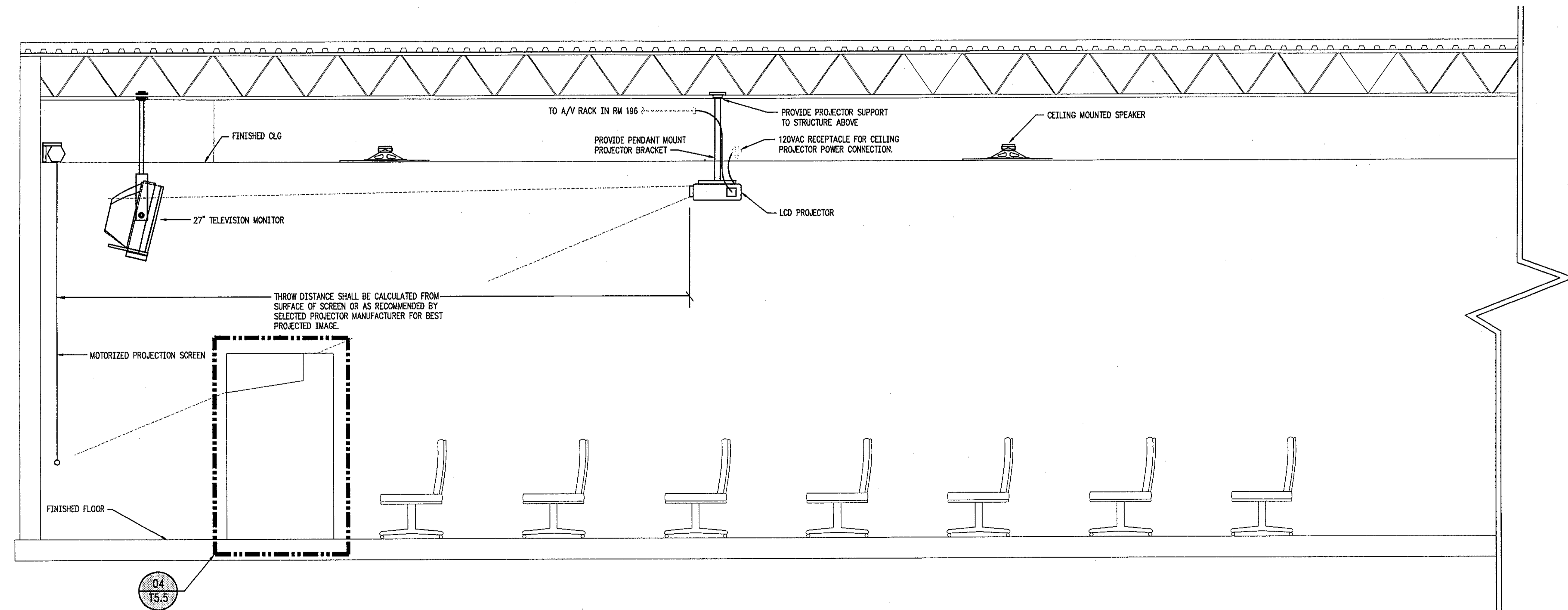
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01 ELEVATION - MEETING ROOM

SCALE: NONE END VIEW



02 ELEVATION - MEETING ROOM

SCALE: NONE SIDE VIEW

ELEVATIONS - SYSTEMS  
 SCALE: NONE

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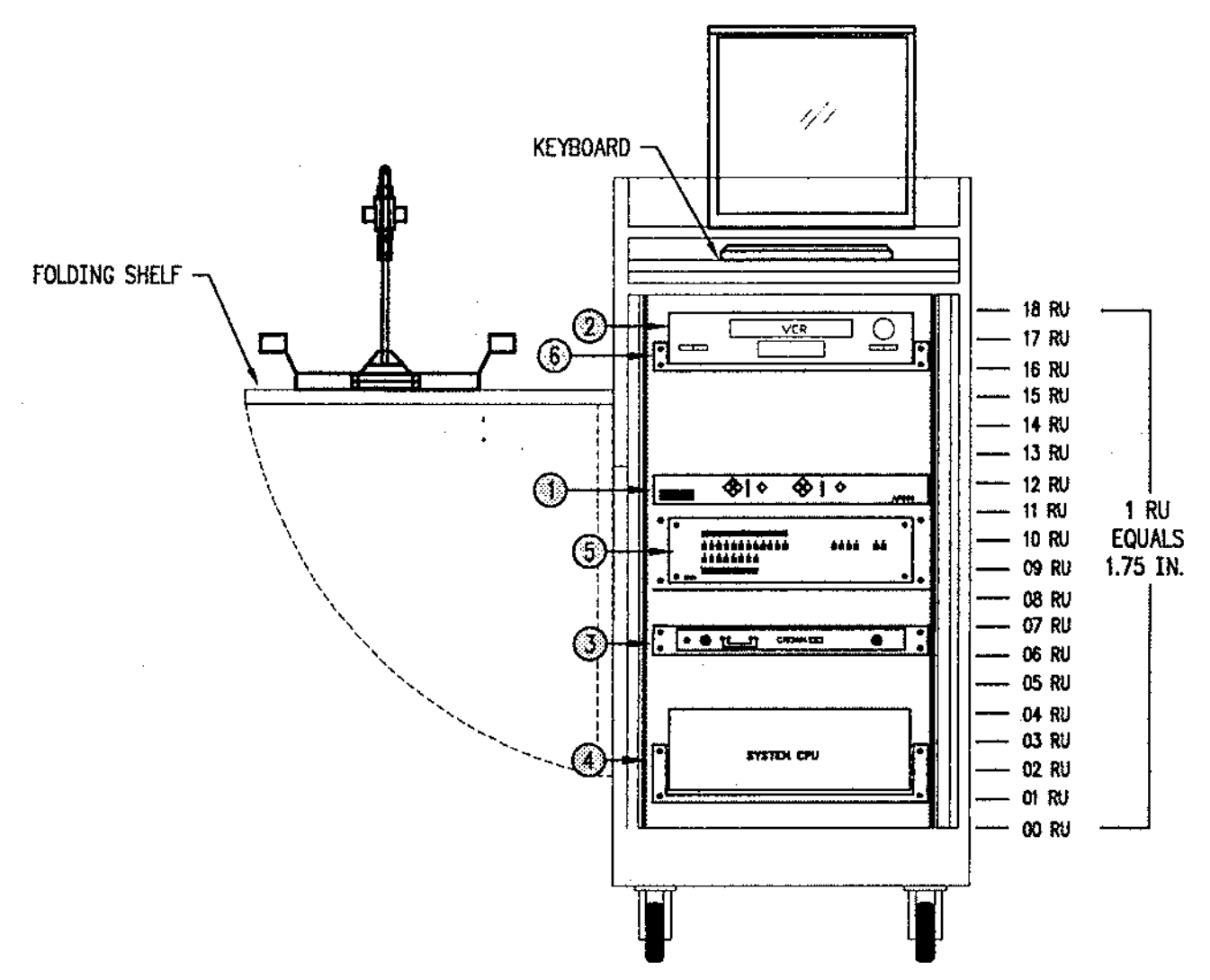
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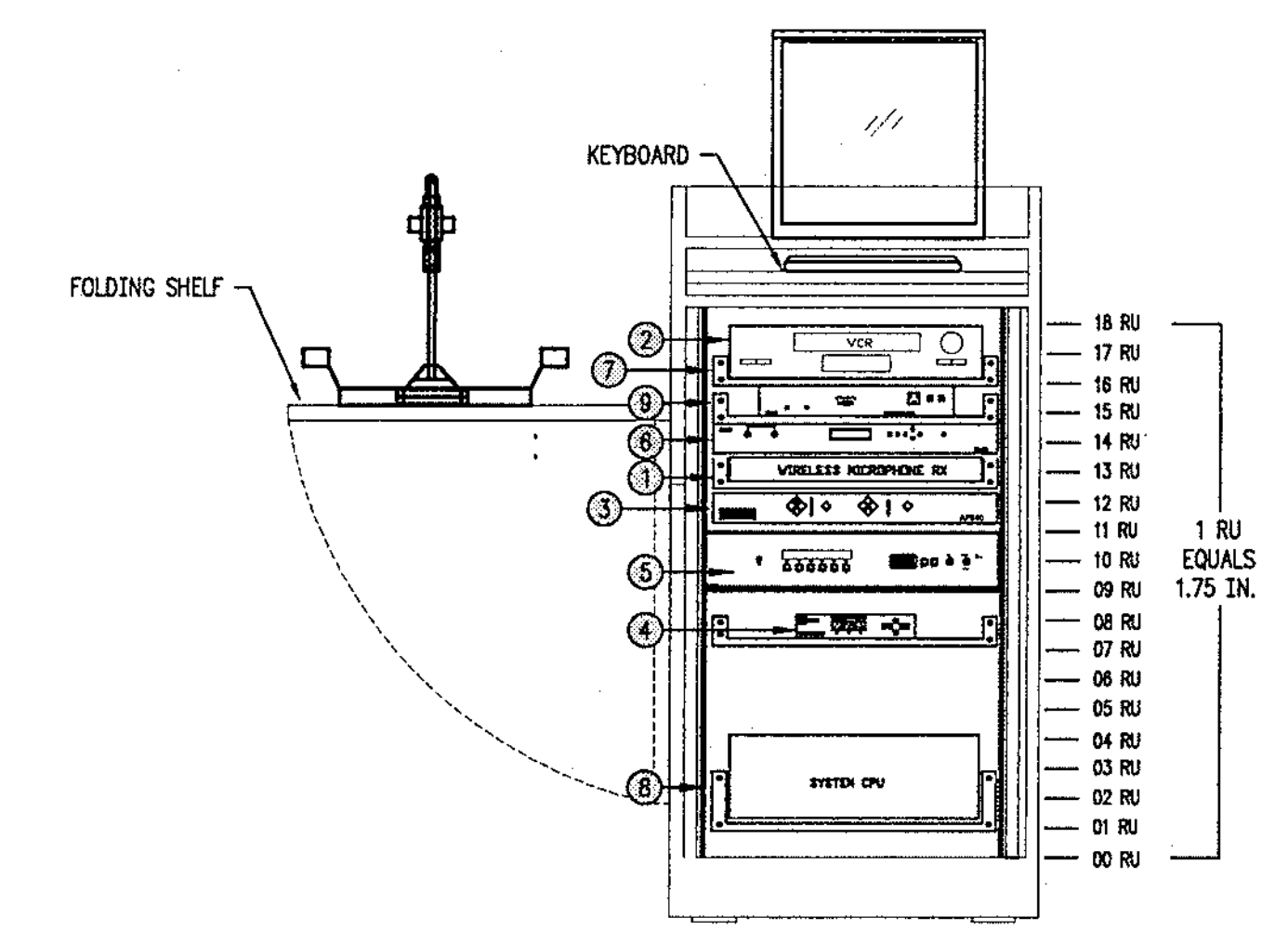
T5.4

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- BACK EQUIPMENT SCHEDULE:
- ① MICROPHONE MIXER
  - ② SWS HI-FI VCR
  - ③ MIXER/AMPLIFIER
  - ④ MIDDLE ATLANTIC BRK SERIES EQUIPMENT RACK.
  - ⑤ MATRIX SWITCHER
  - ⑥ 2RU RACK SHELF



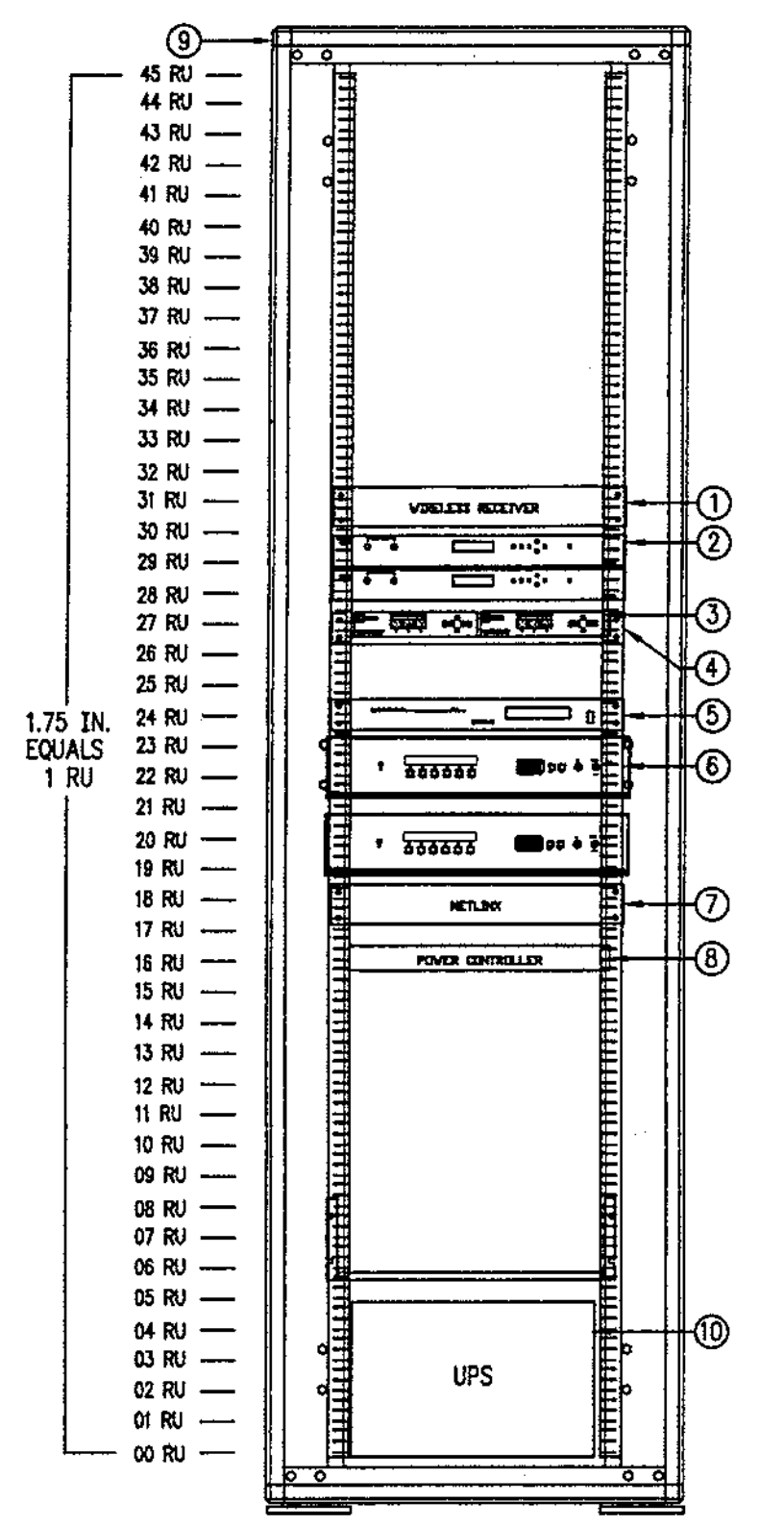
- BACK EQUIPMENT SCHEDULE:
- ① WIRELESS RECEIVER
  - ② SWS HI-FI VCR
  - ③ MICROPHONE MIXER
  - ④ VIDEO SCALER
  - ⑤ MATRIX SWITCHER
  - ⑥ SCAN CONVERTER
  - ⑦ 2RU RACK SHELF
  - ⑧ MIDDLE ATLANTIC BRK SERIES EQUIPMENT RACK.
  - ⑨ DISTRIBUTION AMP

**01 ELEVATION - MEDIA CART**

SCALE: NONE ROOM 2013 - CHILDREN'S PROGRAM ROOM

**02 ELEVATION - PODIUM**

SCALE: NONE RM 3011 - COMPUTER TRAINING ROOM

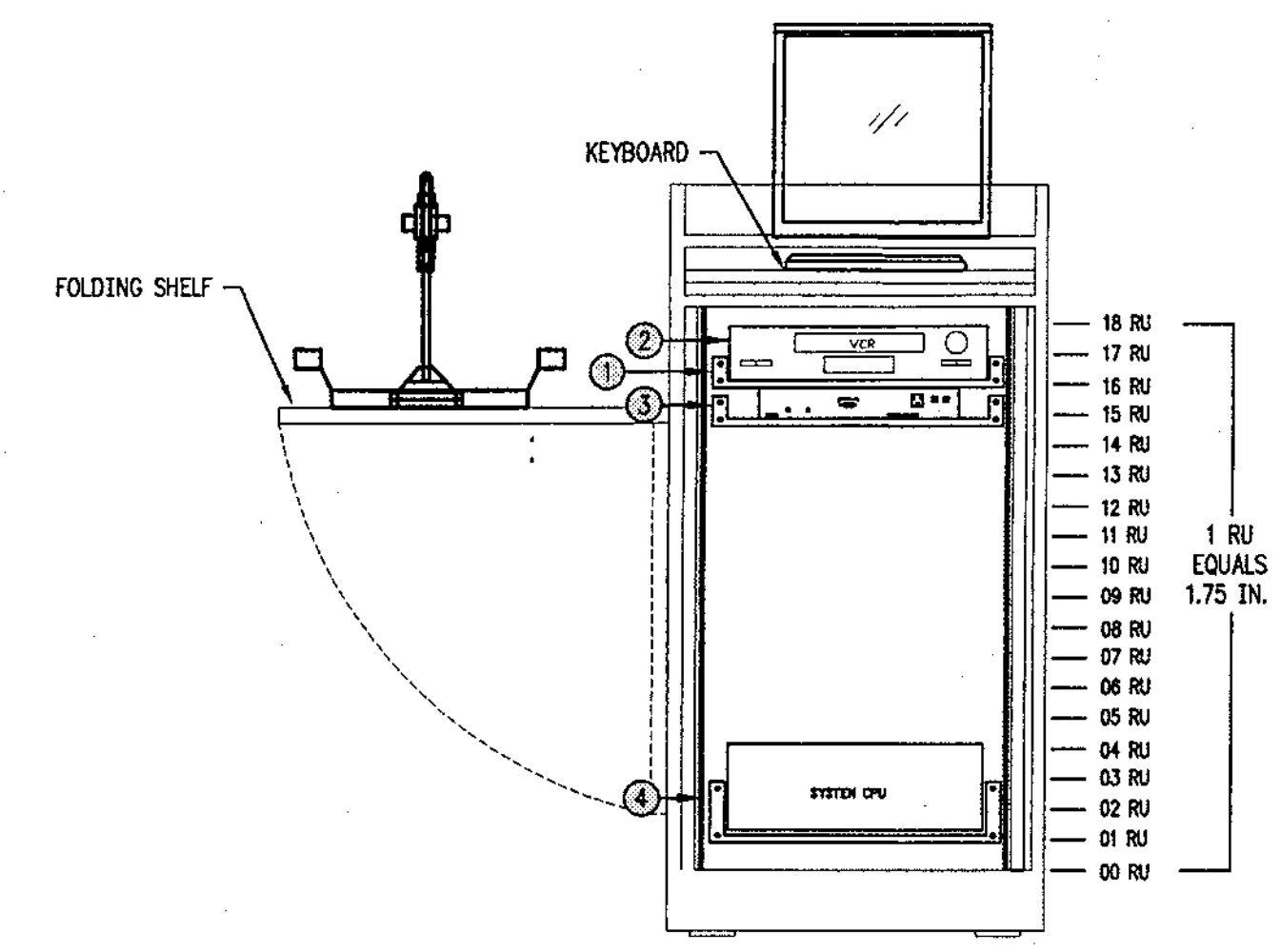


- BACK EQUIPMENT SCHEDULE:
- ① WIRELESS MICROPHONE RX DESIGN SELECTION: SHURE
  - ② SCAN CONVERTER (TYP) DESIGN SELECTION: EXTRON VSC200
  - ③ VIDEO SCALER DESIGN SELECTION: INLINE IN140Z (TYPICAL)
  - ④ 1 RU RACK SHELF (TYPICAL)
  - ⑤ ROOM COMBINER DESIGN SELECTION: ELECTROSONICS MMB
  - ⑥ MATRIX SWITCHER DESIGN SELECTION: EXTRON MLS 506SA (TYPICAL)
  - ⑦ SYSTEM CONTROLLER DESIGN SELECTION: AMX NETLINK NCF
  - ⑧ POWER CONTROLLER DESIGN SELECTION: AMX UPS200
  - ⑨ 84" EQUIPMENT CABINET DESIGN SELECTION: CHATSWORTH MEGAFRAME MPI SERIES (TYPICAL)
  - ⑩ PROVIDE RACK MOUNTABLE UPS WITH 120 VAC OUTPUT, MINIMUM CAPACITY 8KVA, DESIGN SELECTION APC OR EQUIVALENT.

**03 AUDIO VISUAL RACK**

SCALE: NONE MEETING RM 1018

ELEVATIONS - SYSTEMS  
SCALE: NONE



- BACK EQUIPMENT SCHEDULE:
- ① 2RU RACK SHELF
  - ② SWS HI-FI VCR
  - ③ DISTRIBUTION AMP
  - ④ MIDDLE ATLANTIC BRK SERIES EQUIPMENT RACK.

**04 ELEVATION - PRESENTATION PODIUM**

SCALE: NONE ROOM 1018 - MEETING ROOM

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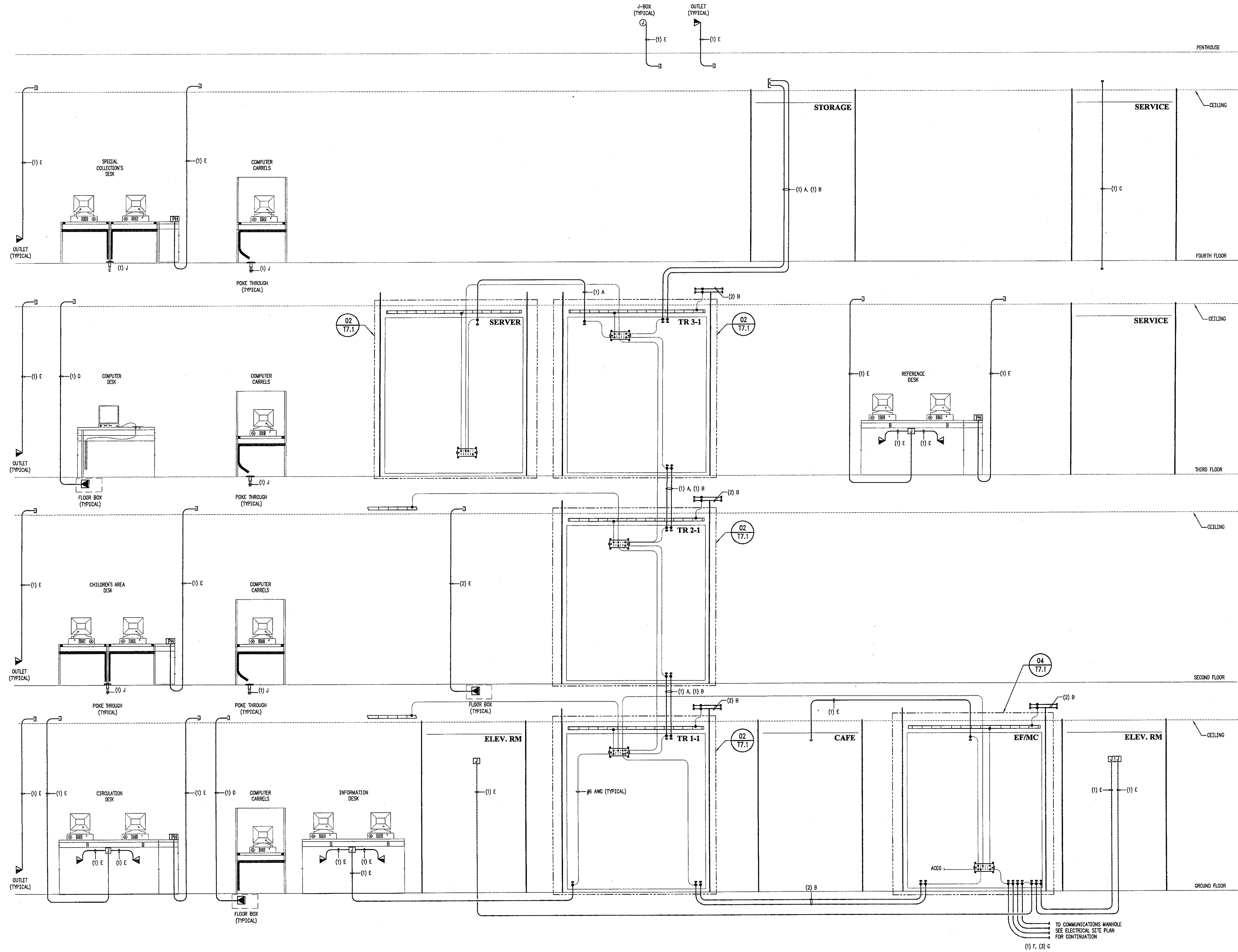
**ABBREVIATION SCHEDULE**

ACEG	ALTERNATING CURRENT EQUIPMENT GROUND
BC	BONDING CONDUCTOR
EF	ENTRANCE FACILITY
ER	EQUIPMENT ROOM
GEC	GROUNDING ELECTRODE CONDUCTOR
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TBBBC	TELECOMMUNICATIONS BONDING BACKBONE INTERCONNECTING BONDING CONDUCTOR
TGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TMB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TR	TELECOMMUNICATIONS ROOM

**CONDUIT RISER LEGEND**

TYPE	TAG	DESCRIPTION
⊗	A	4" EMT WITH (3) 1" INNERDUCTS AND GROUNDING BUSHINGS
○	B	4" EMT WITH GROUNDING BUSHINGS
○	C	2" EMT WITH GROUNDING BUSHINGS
○	D	1 1/4" EMT WITH GROUNDING BUSHINGS
○	E	1" EMT WITH INSULATOR BUSHINGS
⊗	F	4" PVC WITH (3) 1" INNERDUCTS
○	G	4" PVC SCHEDULE 40
○	H	1" PVC
T	J	1-1/2" THROUGH CAPACITY

REFER TO FLOOR PLAN SHEETS FOR DEVICE QUANTITY AND LOCATION.



**01 RISER DIAGRAM - CONDUIT & GROUNDING**

SCALE: NONE  
 RISER DIAGRAMS - SYSTEMS  
 SCALE: NONE

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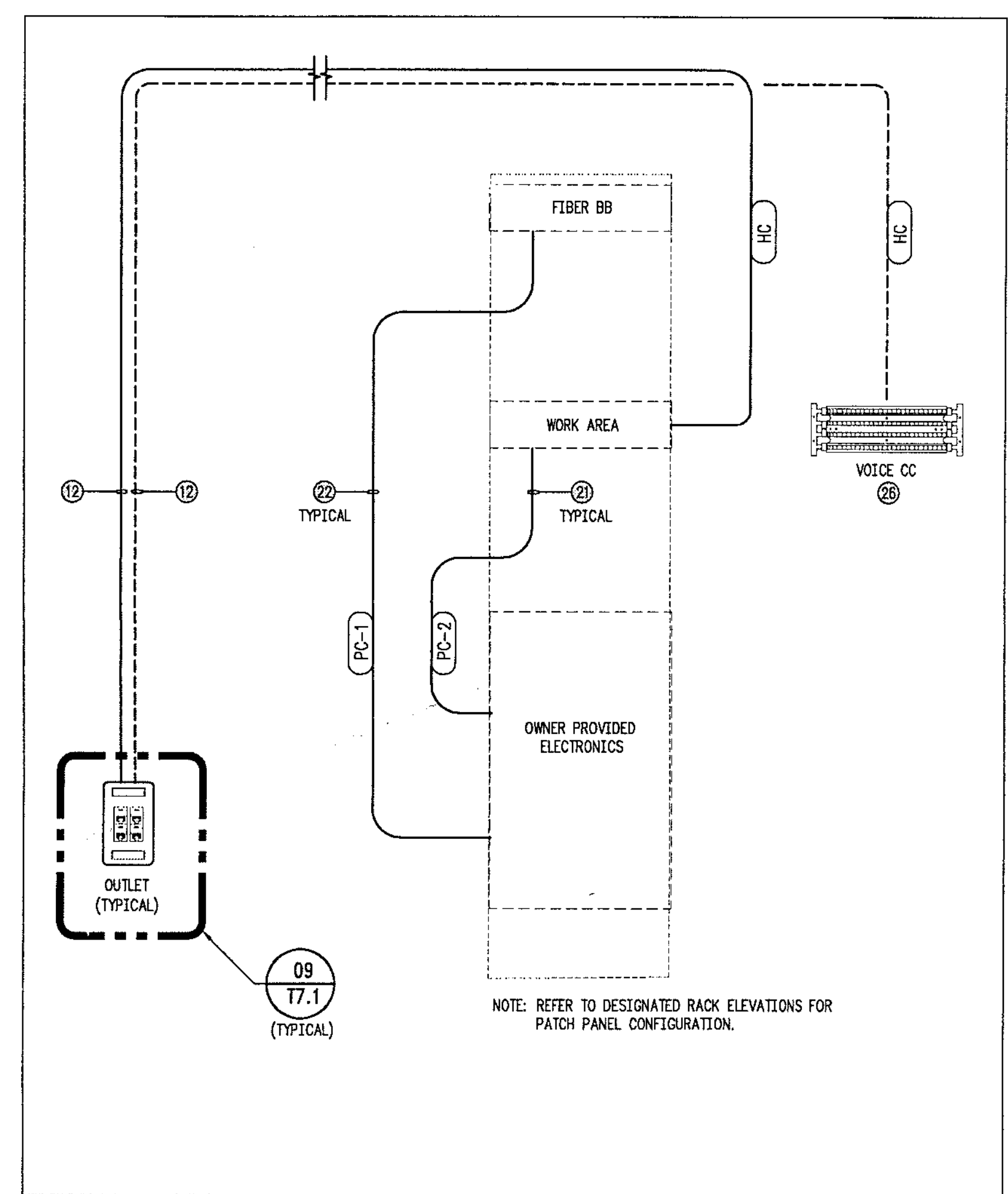
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**T6.1**

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- PLAN NOTES:**
- 300 PAIR TELCO SERVICE ENTRANCE (F.B.O.)
  - OSP TRANSITION SPLICE (F.B.O.)
  - 300 PAIR PRIMARY ENTRANCE PROTECTION (F.B.O.)
  - SERVICE ENTRANCE DEMARC CABLING (F.B.O.)
  - TELCO SERVICE ENTRANCE DEMARC (F.B.O.)
  - PBX FIELD MAIN CROSS CONNECT JUMPER WIRE (U.L.C.)
  - (3) 100 PAIR 110 STYLE TERMINATION BLOCKS (PBX LINE FIELD) (U.S.C.)
  - (8) 50 PAIR, PLENUM RATED UTP, MATED PBX CABLING (U.L.C.)
  - TELEPHONE SWITCH (U.S.C.)
  - (5) 100 PAIR 110 STYLE TERMINATION BLOCKS (PBX LOAD FIELD) (U.S.C.)
  - MULTI-PAIR COPPER CATEGORY 3 VOICE BACKBONE CABLING
  - HORIZONTAL COPPER, CATEGORY 5E, VOICE-DATA CABLING
  - FIBER OPTIC SERVICE ENTRANCE (F.B.O.)
  - PROVIDE WALL MOUNT FIBER TERMINATION ENCLOSURE (PANDUIT #FIM4885TB1).
  - HYBRID FIBER OPTIC CABLE, GIGABIT RATED, DATA BACKBONE CABLING
  - FUTURE TENANT VOICE BACKBONE CABLING (U.S.C.)
  - DEDICATED 4 PAIR, UTP, CATEGORY 3 VOICE CABLING TO ELEVATOR MACHINE ROOM (TYPICAL) FOR EMERGENCY CAB PHONE.
  - TERMINATE HORIZONTAL CABLING INTO FACEPLATE ON SURFACE MOUNTED OUTLET UNDERNEATH MILLWORK COUNTERTOP.
  - TERMINATE HORIZONTAL CABLING INTO FACEPLATE INSTALLED IN FLOOR MOUNTED ACCESS BOX.
  - COORDINATE EXACT EQUIPMENT CORD LENGTHS WITH OWNER PRIOR TO TESTING CHANNEL.
  - PROVIDE UTP PATCH CABLING AS SPECIFIED. COORDINATE EXACT QUANTITY OF SPECIFIC LENGTHS PRIOR TO CHANNEL TESTING.
  - PROVIDE F.O. PATCH CABLING AS SPECIFIED. COORDINATE EXACT QUANTITY OF SPECIFIC LENGTHS PRIOR TO CHANNEL TESTING.
  - ROUTE HORIZONTAL CABLING THROUGH POKE-THROUGH DEVICE AND TERMINATE WITH RJ45 CONNECTOR FOR DIRECT CONNECTION TO LINE EQUIPMENT.
  - ROUTE HORIZONTAL CABLING THROUGH FLOOR BOX AND TERMINATE INTO FLUSH MOUNTED FACEPLATE. COORDINATE FACEPLATE INSTALLATION WITH FURNITURE VENDOR.
  - PROVIDE FACEPLATE TERMINATIONS WITH WEATHERPROOF COVER/ENCLOSURE.
  - PROVIDE WALL MOUNTED 110 TERMINATION BLOCKS. DESIGN SELECTION: (PANDUIT #110K10041G)



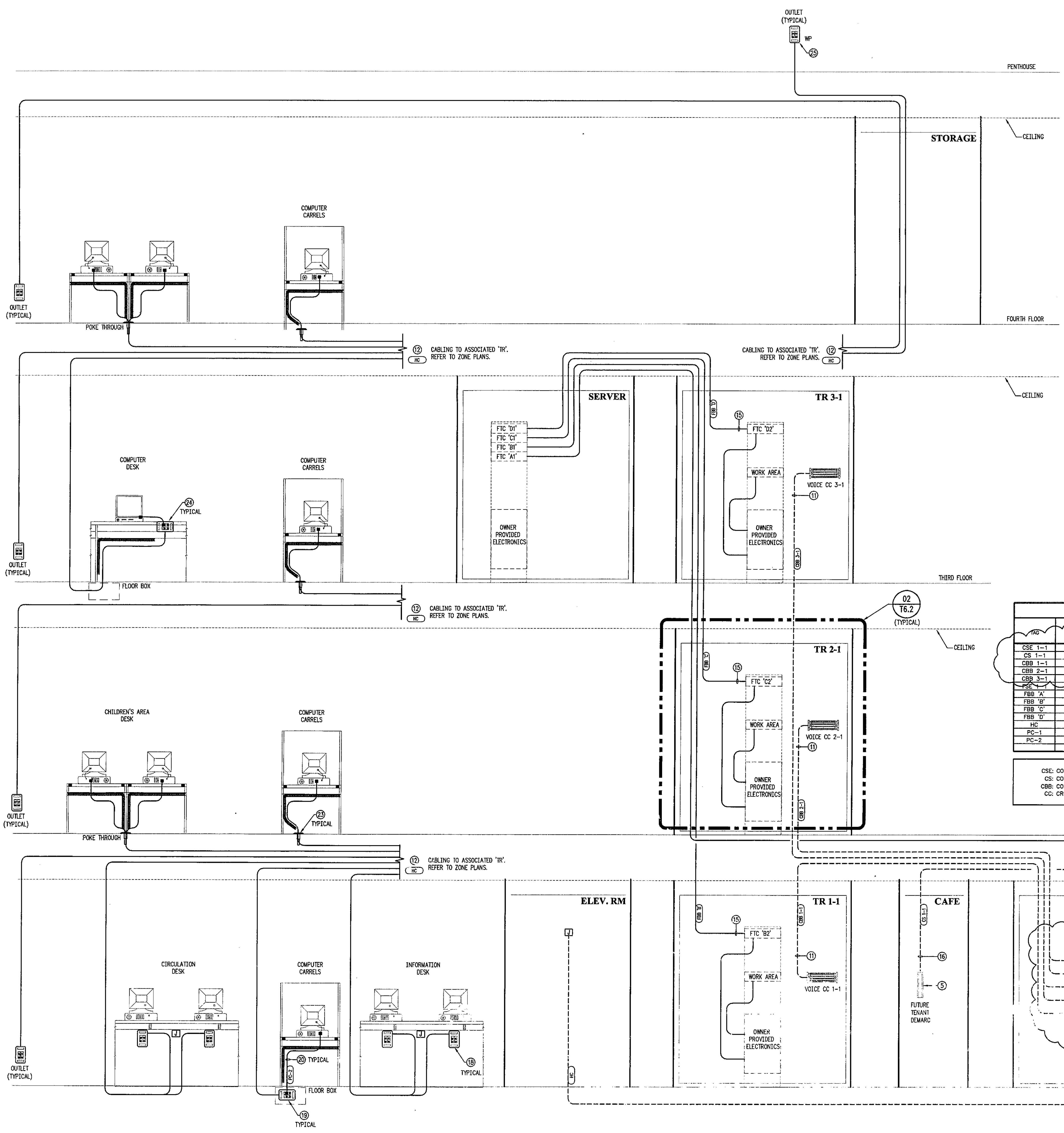
**02 RISER DIAGRAM - TR CONNECTIONS**

SCALE: NONE  
**WORK AREA HORIZONTAL CABLING**

**WIRE LEGEND - VOICE & DATA**

TR	TYPE	QTY	CU PAIR	QTY	DU PAIR	MM (22.5)	FO - STRANDS	SM (2)	RATING	MANUFACTURER	PART #
CSE 1-1	UTP	1	400	-	-	-	-	-	OSP	-	-
CS 1-1	UTP	-	-	-	-	-	-	-	RISER	BELDEN	1271A
CBB 1-1	UTP	1	100	-	-	-	-	-	RISER	BELDEN	1271A / 1270A
CBB 2-1	UTP	1	100	1	50	-	-	-	RISER	BELDEN	1271A / 1270A
CBB 3-1	UTP	1	100	1	50	-	-	-	RISER	BELDEN	1271A / 1270A
FBB 'A'	F.O.	1	-	-	-	24	12	12	RISER	OCC	DX912-0850-8W3ER/11C-8S
FBB 'B'	F.O.	1	-	-	-	12	6	6	RISER	OCC	DX912-0850-8W3ER/11C-8S
FBB 'C'	F.O.	1	-	-	-	12	6	6	RISER	OCC	DX912-0850-8W3ER/11C-8S
FBB 'D'	F.O.	1	-	-	-	12	6	6	RISER	OCC	DX912-0850-8W3ER/11C-8S
HC	UTP	TYPICAL	4	-	-	-	-	-	PLENUM	BELDEN	1701A
PC-1	F.O.	TYPICAL	-	-	-	2*	2*	-	PLENUM	BELDEN	FXD3-3M3
PC-2	UTP	TYPICAL	4	-	-	-	-	-	PLENUM	BELDEN	UTPCHX-XX

CSE: COPPER SERVICE ENTRANCE  
 CS: COPPER SERVICE  
 CBB: COPPER BACKBONE  
 CC: CROSS CONNECT  
 FSE: FIBER OPTIC SERVICE ENTRANCE  
 FBB: FIBER OPTIC BACKBONE  
 HC: HORIZONTAL COPPER  
 PC: PATCH CABLE  
 \* : MM/SM AS SPECIFIED



**01 RISER DIAGRAM - BACKBONE & STATION CABLE**

SCALE: NONE  
 NOTE: REFER TO FLOOR PLAN SHEETS FOR DEVICE QUANTITY AND LOCATION

RISER DIAGRAMS - SYSTEMS  
 SCALE: NONE

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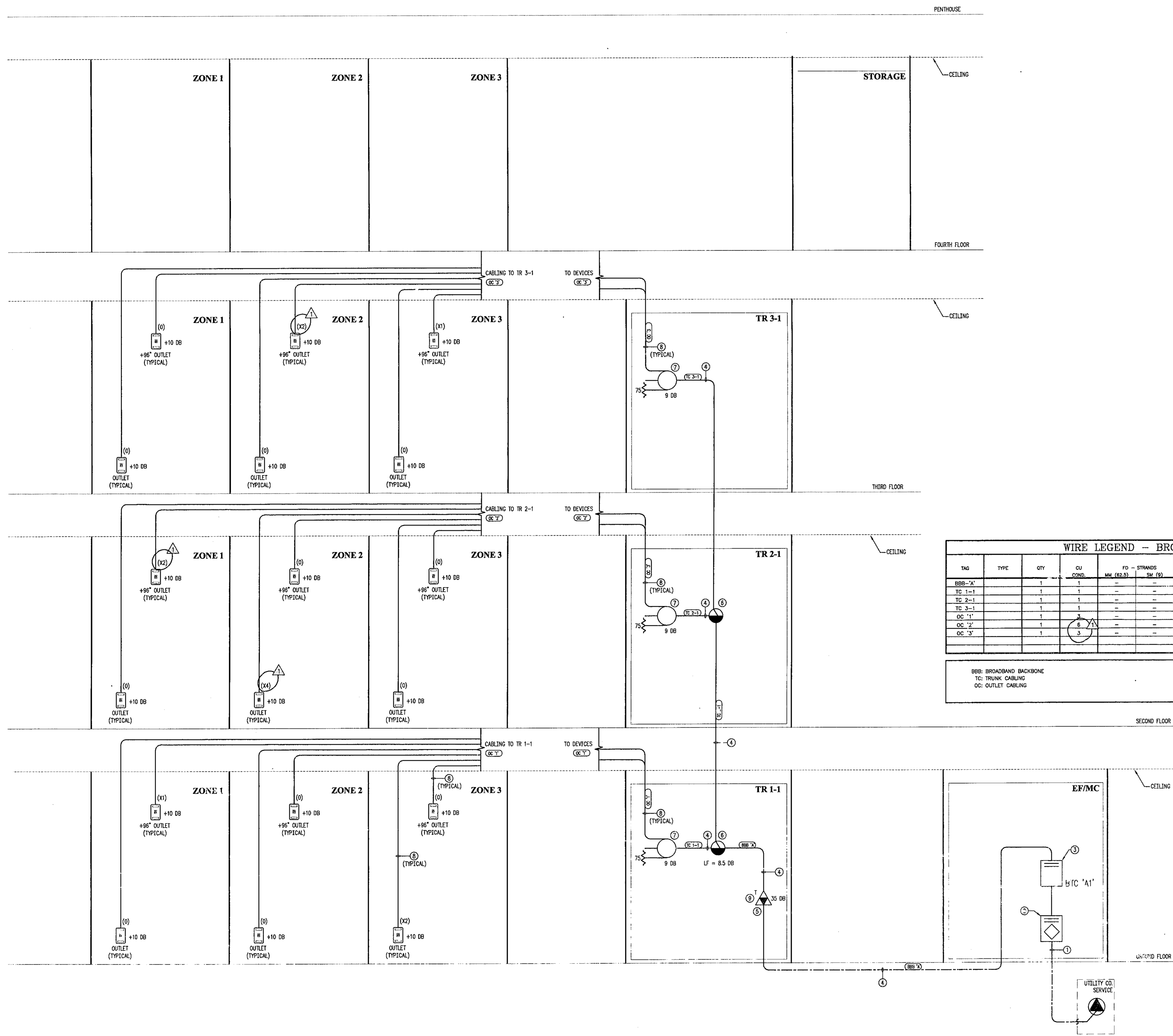
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- GENERAL NOTES**
1. SYSTEM BASED ON 550 MHZ FORWARD PATH AND 50 MHZ RETURN PATH.
  2. ALL UNUSED TAPS/PORTS SHALL BE TESTED & TERMINATED.
  3. FINAL VALUES AT ALL OUTLETS SHALL BE +10DB REFERENCED TO 1 MILLIVOLT.

- PLAN NOTES**
- ① SERVICE ENTRANCE COAX. (F.B.O.)
  - ② PROVIDE RF SURGE SUPPRESSION. (F.B.O.)
  - ③ PROVIDE CATV EQUIPMENT CABINET (18" W X 24" H X 4") DESIGN SELECTION: SQUARE D 18244B, 1824TS.
  - ④ RG-11 CABLING. (3.01 DB/100FT)
  - ⑤ PROVIDE TRUNK AMPLIFIER  
DESIGN SELECTION: BLONDER TONGUE BIDA-550-3D.
  - ⑥ PROVIDE DIRECTIONAL COUPLER  
DESIGN SELECTION: BLONDER TONGUE ZCW SERIES.
  - ⑦ PROVIDE 3-PORT TAP.  
DESIGN SELECTION: BLONDER TONGUE SUV-4.
  - ⑧ RG-6 CABLING. (4.76 DB/100FT)
  - ⑨ OUTPUT: +40DB REFERENCED TO 1 MILLIVOLT AT 550 MHZ.



**WIRE LEGEND -- BROADBAND**

TAG	TYPE	QTY	CU COND.	FD - STRANDS	RATING	MANUFACTURER	PART #
BBB-A'		1	1		PLENUM	BELDEN	9784
TC 1-1		1	1		PLENUM	BELDEN	9084
TC 2-1		1	1		PLENUM	BELDEN	9084
TC 3-1		1	1		PLENUM	BELDEN	9084
OC '1'		1	1		PLENUM	BELDEN	B2120
OC '2'		1	1		PLENUM	BELDEN	B2120
OC '3'		1	3		PLENUM	BELDEN	B2120

BBB: BROADBAND BACKBONE  
 TC: TRUNK CABLING  
 OC: OUTLET CABLING

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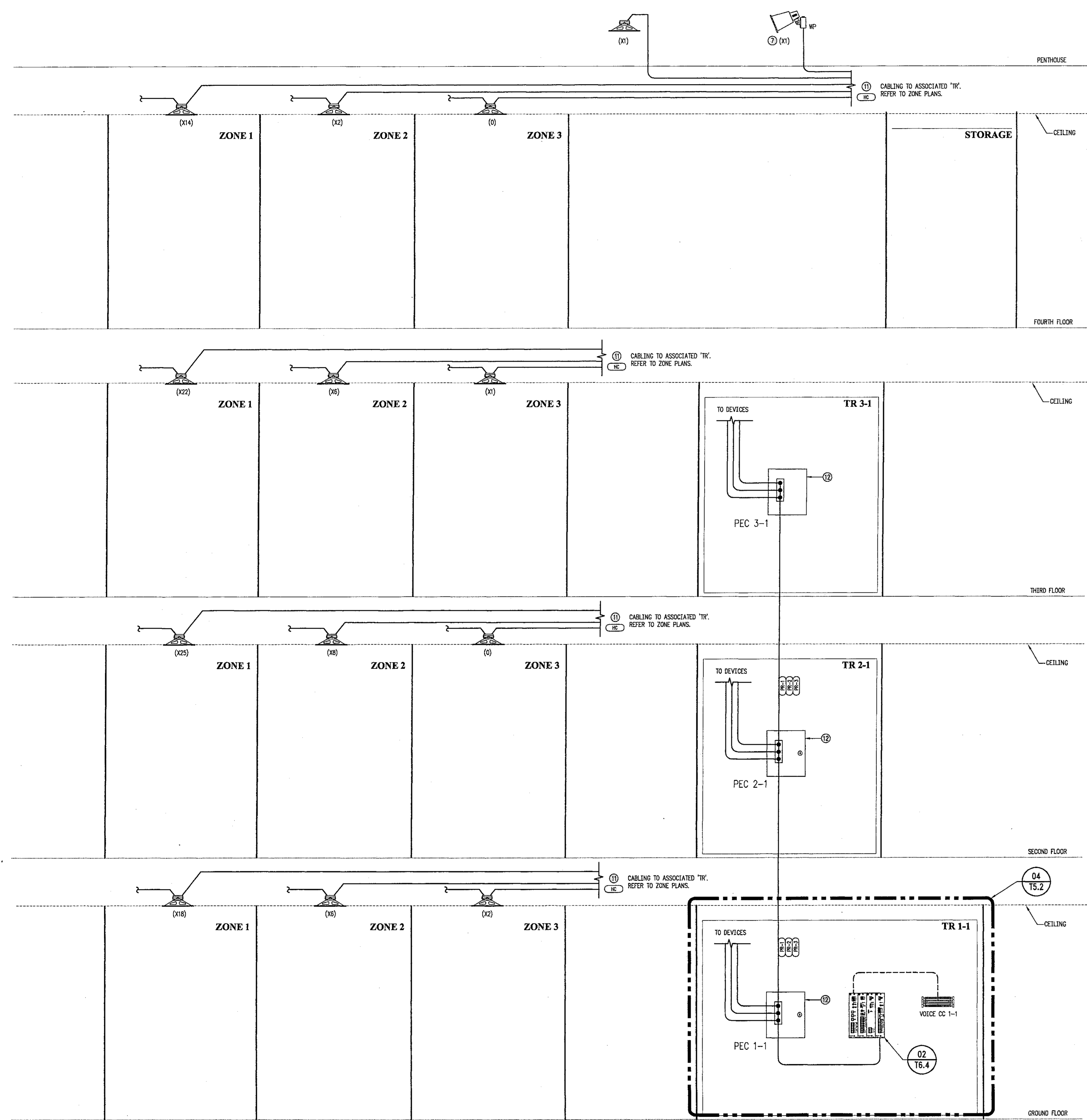
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**01 RISER DIAGRAM - BROADBAND DISTRIBUTION**

SCALE: NONE  
 RISER DIAGRAMS - SYSTEMS  
 SCALE: NONE

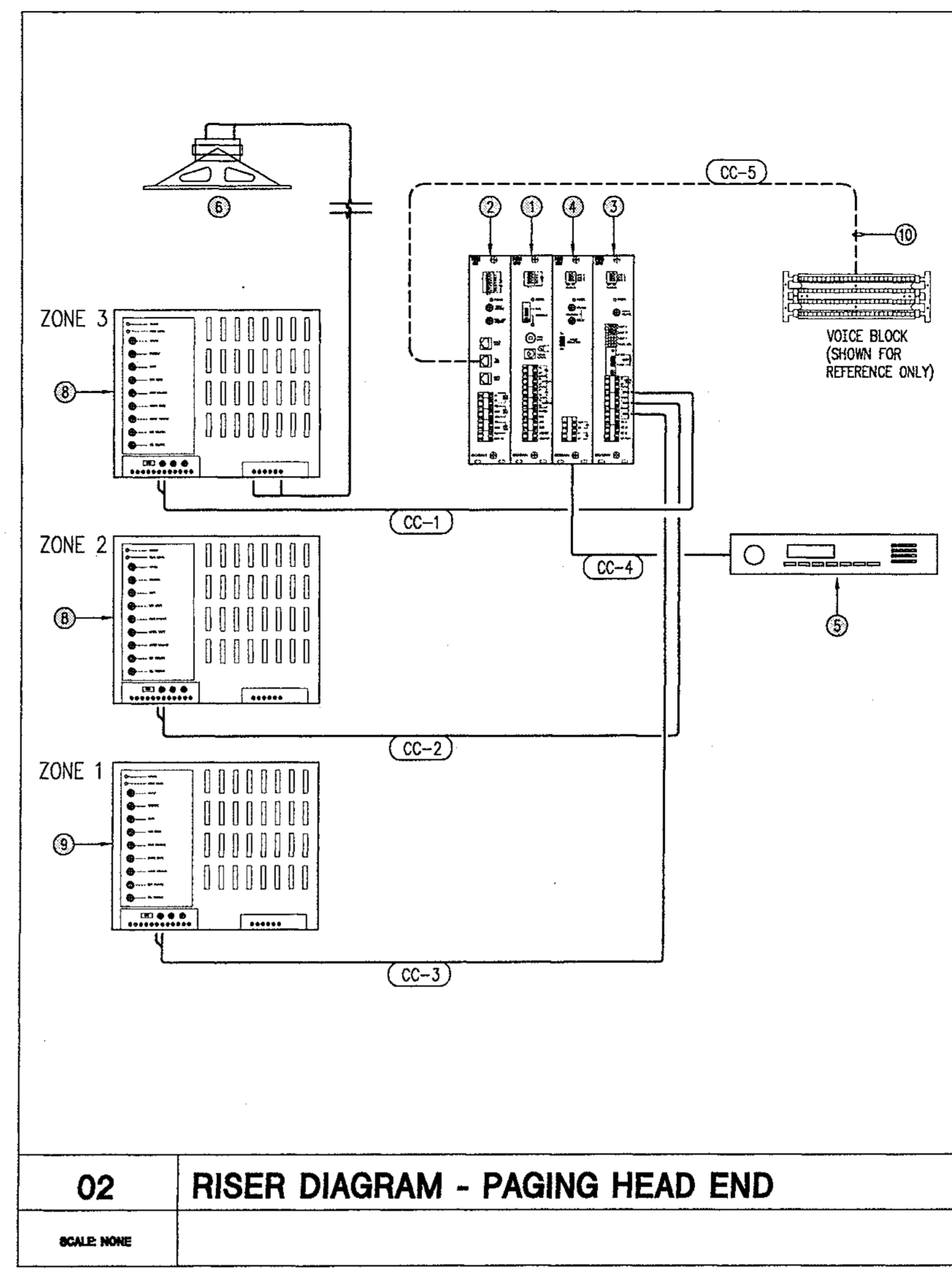
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**01 RISER DIAGRAM - PAGING**

SCALE: NONE  
RISER DIAGRAMS - SYSTEMS  
SCALE: NONE



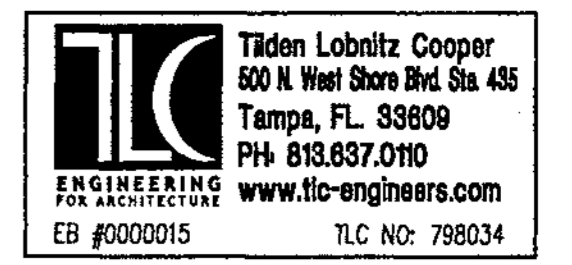
**02 RISER DIAGRAM - PAGING HEAD END**

SCALE: NONE

**WIRE LEGEND - PAGING**

TAG	TYPE	QTY	CU COND.	FD - MIN. (E2.5)	FD - STRANDS	SM. (8)	RATING	MANUFACTURER	PART #
PR-1	STP	1	2	--	--	--	PLENUM	WEST PENN	50225
PR-2	STP	1	2	--	--	--	PLENUM	WEST PENN	50225
PR-3	STP	1	2	--	--	--	PLENUM	WEST PENN	50225
CC-1	UTP	1	2	--	--	--	PLENUM		
CC-2	UTP	1	2	--	--	--	PLENUM		
CC-3	UTP	1	2	--	--	--	PLENUM		
CC-4	UTP	1	2	--	--	--	PLENUM		
CC-5	UTP	1	4	--	--	--	PLENUM	BELDEN	1701A
HC	STP	TYPICAL	--	--	--	--	PLENUM	WEST PENN	28225

CC: CROSS CONNECT  
PR: PAGING RISER



- PLAN NOTES:**
- PROVIDE ZONE PAGING CENTRAL PROCESSING MODULE. DESIGN SELECTION: (BOGEN #P0MCPU).
  - PROVIDE ZONE PAGING TELEPHONE INTERFACE MODULE. DESIGN SELECTION: (BOGEN #P0MTPM).
  - PROVIDE ZONE PAGING 3-ZONE MODULE. DESIGN SELECTION: (BOGEN #P0M3PM).
  - PROVIDE ZONE PAGING TALK BACK MODULE. DESIGN SELECTION: (BOGEN #P0MTRM).
  - PROVIDE AM/FM DIGITAL TUNER. DESIGN SELECTION: (TDA #D1-820).
  - PROVIDE CEILING MOUNT 6" COAXIAL SPEAKER WITH BAFFLE. DESIGN SELECTION: (SOUNDOLIER #D72W).
  - PROVIDE SURFACE MOUNT, ENVIRONMENT RESISTANT, MUSIC SPEAKER. DESIGN SELECTION: (SOUNDOLIER #MR-3T).
  - PROVIDE 100 WATT ZONE PAGING AMPLIFIER. DESIGN SELECTION: (BOGEN #P0A100).
  - PROVIDE 250 WATT ZONE PAGING AMPLIFIER. DESIGN SELECTION: (BOGEN #P0A250).
  - COORDINATE CONNECTION TO OWNER TELEPHONE SWITCH WITH VOICE-DATA CONTRACTOR.
  - HORIZONTAL, COPPER SPEAKER CABLING.
  - PROVIDE PAGING EQUIPMENT CABINET (18"W X 24"H X 4"D). DESIGN SELECTION: SQUARE D 18244B, 18241S.

Revised  
Refer to:  
Riser - 3-1  
Riser - 2-1  
Riser - 1-1  
Riser - 02

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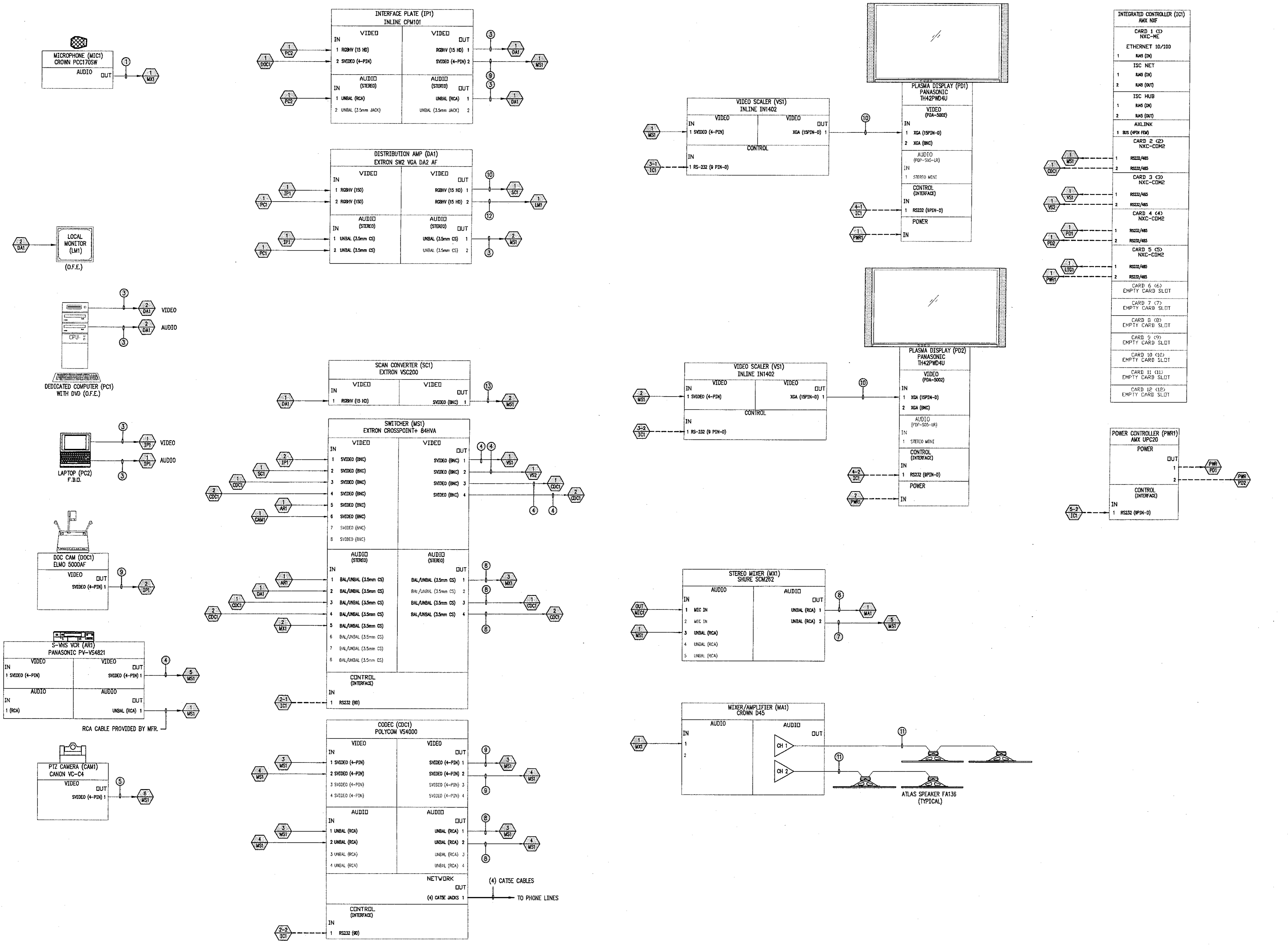
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- GENERAL NOTES:
- MICROPHONE CABLE.
  - (1) (M-M) RS-232 CABLE.
  - (1) (M-M) 3' 15-PIN HD, WITH COMPUTER AUDIO CABLE.
  - (1) (M-M) 6' 4-PIN MINI DIN-TO-BNC S-VHS CABLE.
  - (1) (M-M) 50' 4-PIN MINI DIN-TO-BNC S-VHS CABLE.
  - (1) (M-M) 6' CABLE WITH 22 AWG WIRE WITH 3.5 MM CONNECTORS.
  - (1) (M-M) 6' CABLE WITH 3.5 MM CS TO (L-R) RCA CONNECTORS.
  - (1) (M-M) 4' RCA CABLES.
  - (1) (M-M) 3' 15-PIN HD CABLE.
  - SPEAKER WIRE.
  - PROVIDED WITH EQUIPMENT.
  - (1) 3' BNC-TO-BNC S-VHS CABLE.

- LEGEND:
- MIC: MICROPHONE
  - MX: MIXER
  - SB: SMART BOARD
  - PC: PERSONAL COMPUTER
  - LM: LOCAL MONITOR
  - DA: DISTRIBUTION AMPLIFIER
  - IP: INTERFACE PLATE
  - DOC: DOCUMENT CAMERA
  - AR: ANALOG RECORDER
  - MA: MIXER/AMPLIFIER
  - VS: VIDEO SCALER
  - SC: SCAN CONVERTER
  - PD: PLASMA DISPLAY
  - IC: INTEGRATED CONTROLLER



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**01 RISER DIAGRAM - VIDEO CONFERENCING**  
SCALE: NONE  
RM 1015 - CONFERENCE RM  
RISER DIAGRAMS - SYSTEMS  
SCALE: NONE

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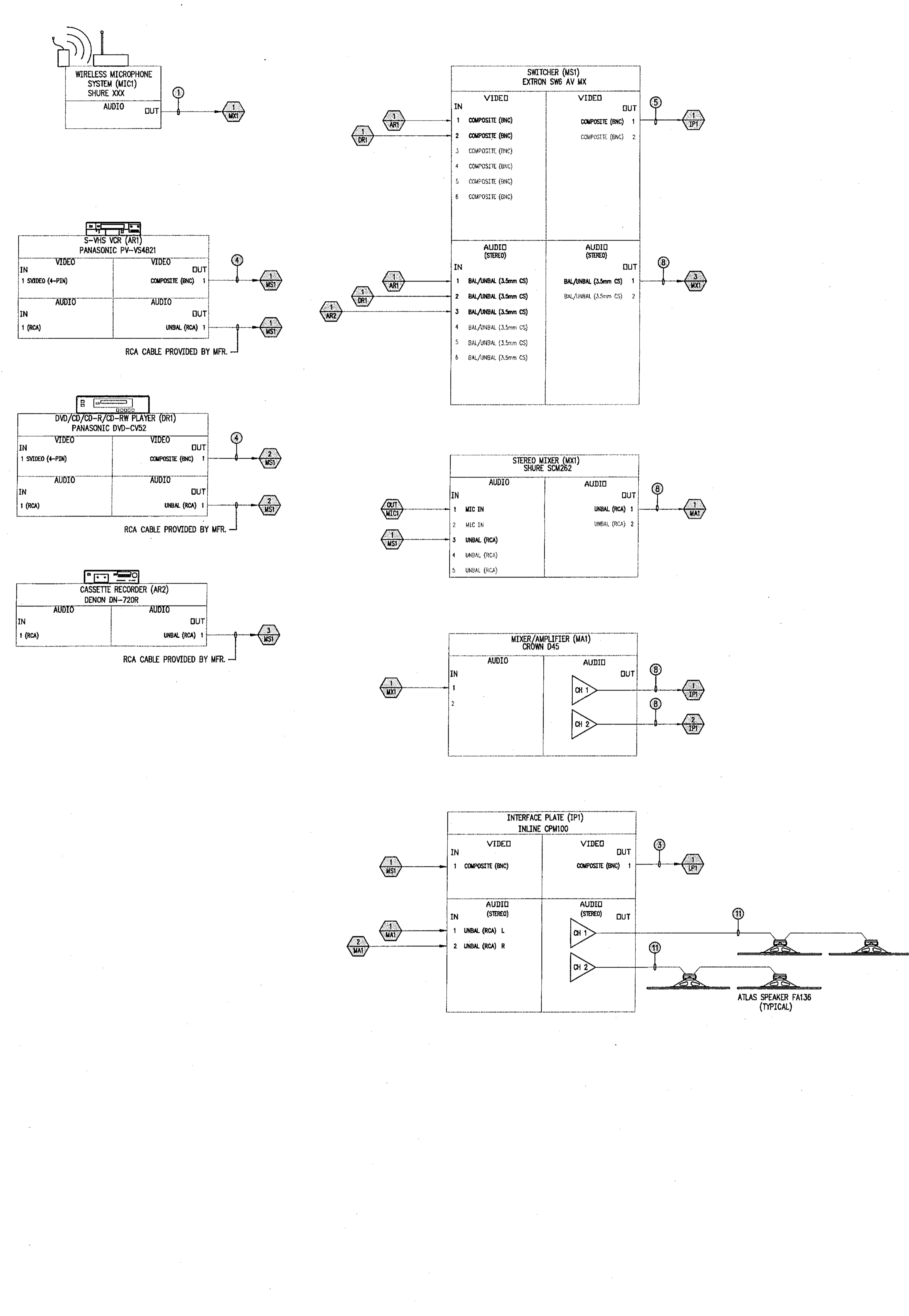
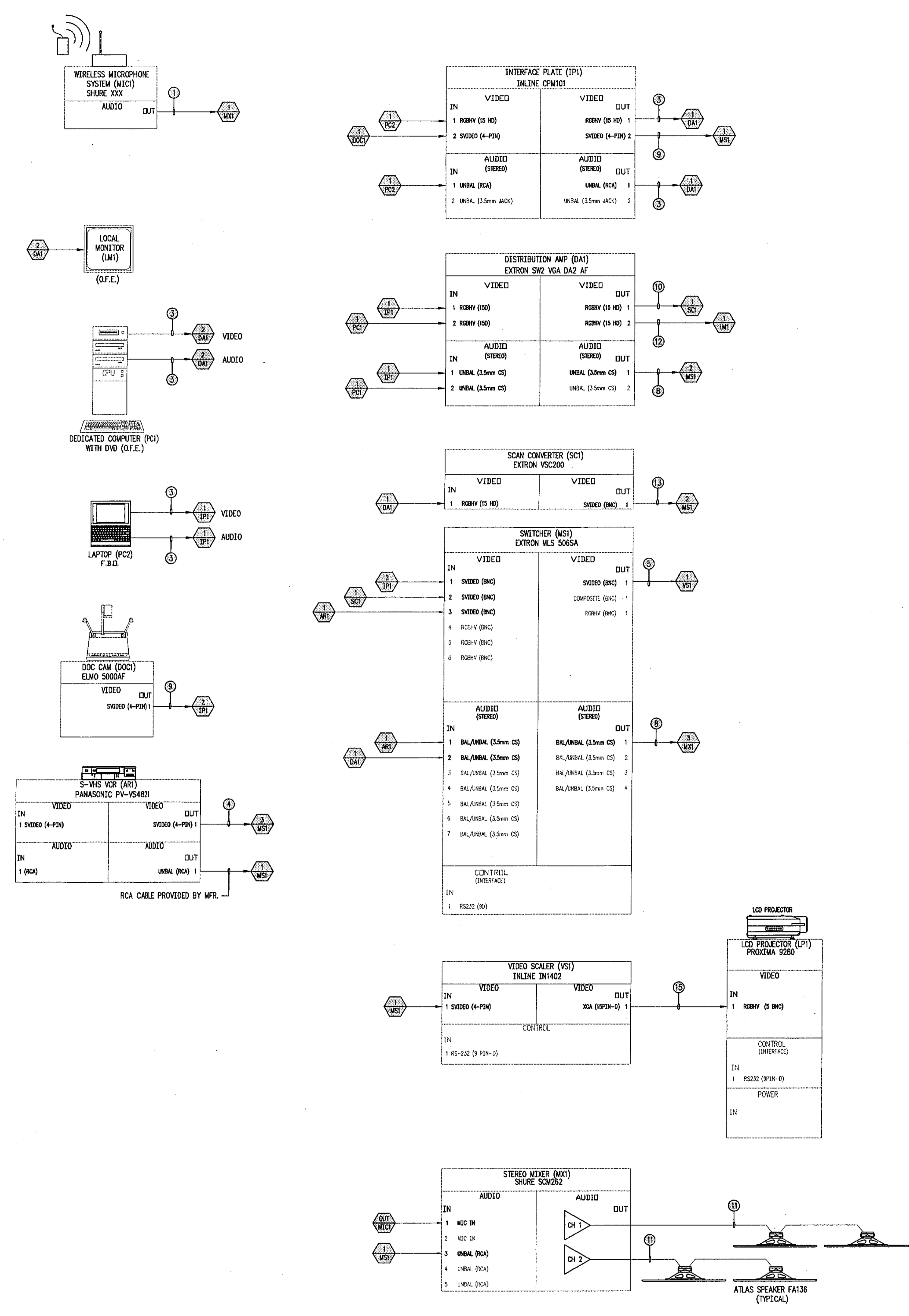
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Tallahassee, FL  
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850/769 1181  
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- GENERAL NOTES:
- 1 MICROPHONE CABLE.
  - 2 (1) (M-W) RS-232 CABLE.
  - 3 (1) (M-W) 3' 15-PIN HD, WITH COMPUTER AUDIO CABLE.
  - 4 (1) (M-W) 6' 4-PIN MINI DIN-TO-BNC S-WHS CABLE.
  - 5 (1) (M-W) 50' 4-PIN MINI DIN-TO-BNC S-WHS CABLE.
  - 6 (1) (M-W) 6' CABLE WITH 22 AWG WIRE WITH 3.5 MM CONNECTORS.
  - 7 (1) (M-W) 6' CABLE WITH 3.5 MM CS TO (L-R) RCA CONNECTORS.
  - 8 (1) (M-W) 6' RCA CABLES.
  - 9 (1) (M-W) 3' 4-PIN MINI DIN S-WHS CABLE.
  - 10 (1) (M-W) 3' 15-PIN HD CABLE.
  - 11 SPEAKER WIRE.
  - 12 PROVIDED WITH EQUIPMENT.
  - 13 3' BNC-TO-BNC S-WHS CABLE.
  - 14 (1) (M-W) 50' 4-PIN MINI DIN S-WHS CABLE.
  - 15 (1) (M-W) 50' 15PIN-D TO 5 BNC CABLE.

- LEGEND:
- MIC: MICROPHONE
  - MX: MIXER
  - SB: SMART BOARD
  - PC: PERSONAL COMPUTER
  - LM: LOCAL MONITOR
  - DA: DISTRIBUTION AMPLIFIER
  - IP: INTERFACE PLATE
  - DOC: DOCUMENT CAMERA
  - AR: ANALOG RECORDER
  - MA: MIXER/AMPLIFIER
  - VS: VIDEO SCALER
  - SC: SCAN CONVERTER
  - LP: LCD PROJECTOR
  - IC: INTEGRATED CONTROLLER
  - PWR: POWER CONTROLLER



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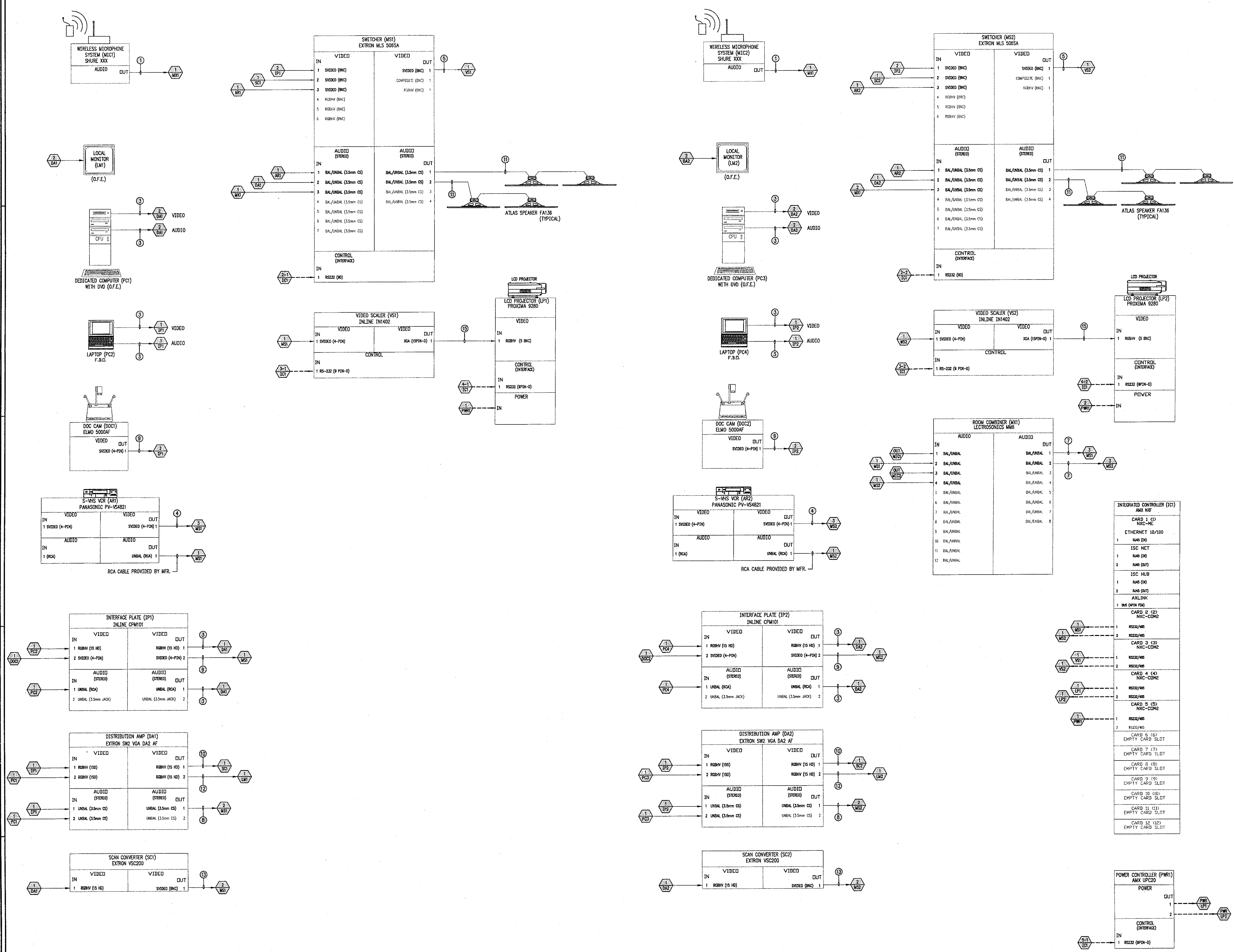
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- GENERAL NOTES:**
- MICROPHONE CABLE.
  - (1) (M-M) RS-232 CABLE.
  - (1) (M-M) 3' 15-PIN HD, WITH COMPUTER AUDIO CABLE.
  - (1) (M-M) 6' 4-PIN MINI DIN-TO-BNC S-VHS CABLE.
  - (1) (M-M) 50' 4-PIN MINI DIN-TO-BNC S-VHS CABLE.
  - (1) (M-M) 6' CABLE WITH 22 AWG WIRE WITH 3.5 MM CONNECTORS.
  - (1) (M-M) 3' 15-PIN HD CABLE WITH 3.5 MM CS TO 3.5 MM CS CONNECTORS.
  - (1) (M-M) 6' RCA CABLES.
  - (1) (M-M) 3' 4-PIN MINI DIN S-VHS CABLE.
  - (1) (M-M) 3' 15-PIN HD CABLE.
  - SPEAKER WIRE.
  - PROVIDED WITH EQUIPMENT.
  - (1) 3' BNC-TO-BNC S-VHS CABLE.
  - (1) (M-M) 50' 4-PIN MINI DIN S-VHS CABLE.
  - (1) (M-M) 50' 15PIN-0 TO 5 BNC CABLE.
- LEGEND:**
- MIC: MICROPHONE
  - MX: MIXER
  - SB: SMART BOARD
  - PC: PERSONAL COMPUTER
  - LM: LOCAL MONITOR
  - DA: DISTRIBUTION AMPLIFIER
  - IP: INTERFACE PLATE
  - DOC: DOCUMENT CAMERA
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  - MA: MIXER/AMPLIFIER
  - VS: VIDEO SCALER
  - SC: SCAN CONVERTER
  - LP: LCD PROJECTOR
  - IC: INTEGRATED CONTROLLER
  - PWR: POWER CONTROLLER



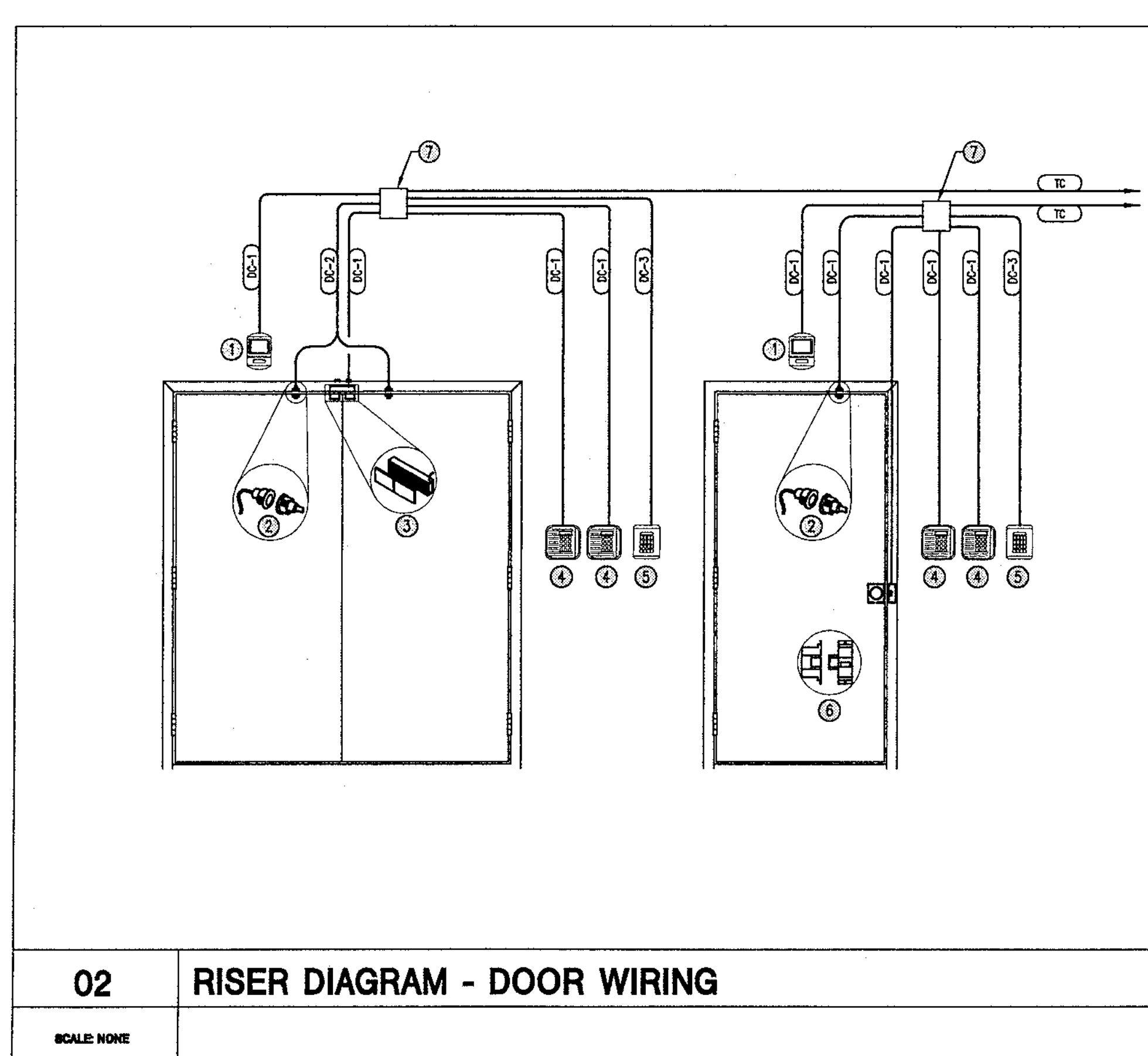
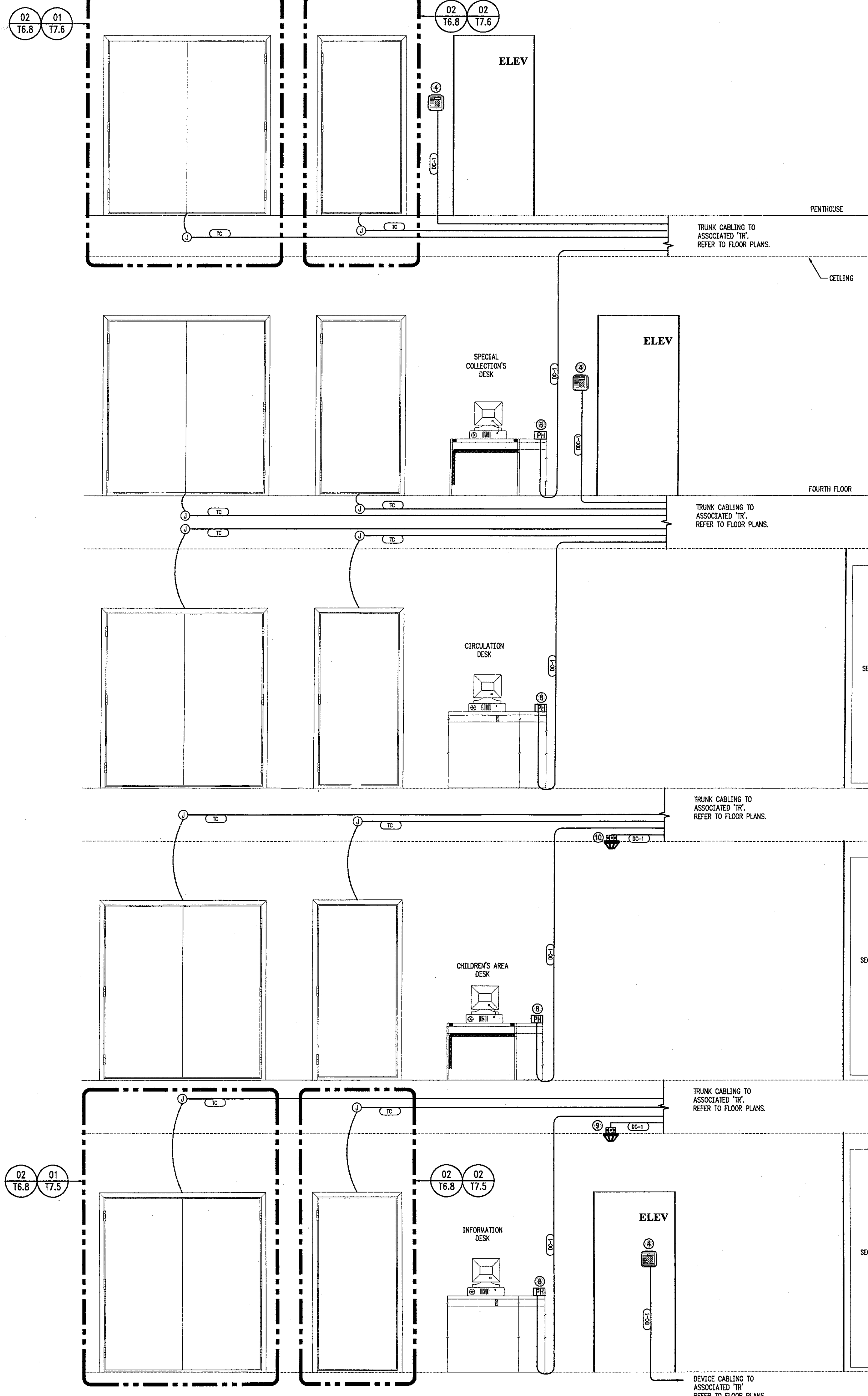
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**01 RISER DIAGRAM - CLASSROOM PRESENTATION**  
 SCALE: NONE  
 RM 1018  
 ELEVATIONS - SYSTEMS  
 SCALE: NONE



**02 RISER DIAGRAM - DOOR WIRING**  
SCALE: NONE

- GENERAL NOTES**
- DOOR WIRING DETAIL DEFECTS CABLING REQUIREMENTS FOR POSSIBLE DOOR DEVICES. REFER TO FLOOR PLANS FOR SPECIFIC REQUIREMENTS AT EACH DOOR.
- PLAN NOTES**
- REQUEST TO EXIT MOTION SENSOR. DESIGN SELECTION: (DETECTION SYSTEMS DS-DS1511).
  - DOOR POSITION SWITCHES. DESIGN SELECTION: (STEEL DOOR: SENTROL SR-1078TN/M WOOD DOOR: SENTROL 1138T GLASS DOOR: SENTROL 1138T CURTAIN DOOR: SENTROL 2302)
  - ELECTROMAGNETIC LOCKS. DESIGN SELECTION: (DORMA EML-1012).
  - CARD READER. DESIGN SELECTION: (HID PROXPPOINT PLUS).
  - KEYPAD. DESIGN SELECTION: (HID PROXPPOINT WITH KEYPAD).
  - ELECTRIC STRIKE. DESIGN SELECTION: (RUTHERFORD #7114).
  - 4" SQUARE J-BOX.

- PLAN NOTES**
- PANIC HARDWARE (SINGLE BUTTON EMERGENCY PANEL). DESIGN SELECTION: (RADIONICS).
  - PASSIVE INFRARED MOTION DETECTOR. DESIGN SELECTION: (SENTROL 6100 SHARPSHOOTER SERIES).
  - 360 DEGREE MOTION DETECTOR. DESIGN SELECTION: (SENTROL AP669).
  - PROVIDE SECURITY EQUIPMENT CABINET (18" W X 24" H X 4" D). DESIGN SELECTION: (SQUARE D 18244B, 18241S).
  - BASE MODULE/CPU. DESIGN SELECTION: (RADIONICS).
  - DOOR CONTROL ACCESS MODULE (4 DOOR MINIMUM). DESIGN SELECTION: (RADIONICS).
  - CONTROL CABLING DAISSY CHAIN CONNECTION BETWEEN BASE MODULES.
  - CONTROL CABLING DAISSY CHAIN CONNECTION BETWEEN ACCESS MODULES. (TYPICAL).
  - CONTROL CABLING DAISSY CHAIN CONNECTION ACCESS MODULE WITH 8 DOOR EXPANSION CARD INSTALLED. DESIGN SELECTION: (RADIONICS).

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AA C000119

**WIRE LEGEND - SECURITY**

TAG	TYPE	QTY	CU COND.	FD - STRANDED MM (42/5)	SM (10)	RATING	MANUFACTURER	PART #
DC 1"	STP	1	2			PULNAM	BELEN	6520FE
DC 2"	STP	1	4			PULNAM	BELEN	6522FE
DC 3"	STP	1	8			PULNAM	BELEN	6421FE
SC 1"	STP	1	2			PULNAM	BELEN	6520FE
SC 2"	STP	1	2			PULNAM	BELEN	6520FE
SC 3"	STP	1	2			PULNAM	BELEN	6520FE
TC 1"	STP	1	8			PULNAM	BELEN	6421FE

SC: SECURITY CONTROL CABLING  
TR: TRUNK CABLING  
DC: DEVICE CABLING

**ZONE OPERATION NOTES**

ALL DOORS IN ZONE C AREAS SHALL REMAIN OPEN DURING NORMAL OPERATING HOURS.

INITIAL ENTRY INTO THE BUILDING OUTSIDE OF NORMAL OPERATING HOURS SHALL BE THROUGH DOOR 1-27 ONLY.

ACCESS TO ZONE A SPACES (FLOORS 1-5) SHALL BE LIMITED TO PERSONNEL IN POSSESSION OF ZONE A CARDS ONLY.

ACCESS TO ZONE 10 SHALL BE LIMITED TO PERSONNEL IN POSSESSION OF ZONE A CARDS ONLY.

ACCESS TO ZONE 1E SHALL BE LIMITED TO GIFT SHOP TENANT AND SECURITY PERSONNEL WITH ACCESS TO RM 1011.

**EXCEPTIONS:**  
CARDS WHICH PERMIT ENTRY TO RM 1011 SHALL PERMIT ENTRY TO ALL CARD READER BLOCKED SPACES.

**EQUIPMENT CABINET SCHEDULE**

DOOR	LOCATION	SHEET	DOOR TYPE	EGRESS	PANEL	PANEL	
			SINGLE DOOR	DOUBLE DOOR	FIRE ALARM RELEASE	EXPIRYNT CABINET	BASE MODULE
1-1	POPULAR MATERIALS	T3.1	X			AM 1	BM 1
1-2	POPULAR MATERIALS	T3.1	X			AM 1	BM 1
1-3	POPULAR MATERIALS	T3.1	X			AM 1	BM 1
1-4	POPULAR MATERIALS	T3.1	X			AM 1	BM 1
1-5	POPULAR MATERIALS	T3.1	X			AM 2	BM 1
1-6	POPULAR MATERIALS	T3.1	X			AM 2	BM 1
1-7	POPULAR MATERIALS	T3.1	X			AM 2	BM 1
1-8	POPULAR MATERIALS	T3.1	X			AM 2	BM 1
1-9	CAFE	T3.1	X			AM 3	BM 1
1-10	CAFE	T3.1	X			AM 3	BM 1
1-11	CAFE	T3.1	X			AM 3	BM 1
1-12	CAFE	T3.1	X			AM 3	BM 1
1-13	BOOKSTORE/ART SHOP	T3.1	X			AM 4	BM 1
1-14	ELEV MECH RM	T3.1	X			AM 4	BM 1
1-15	ELEVATOR C	T3.1	X			AM 4	BM 1
1-16	COMM ROOM 1009	T3.1	X			AM 4	BM 1
1-17	CORRIDOR	T3.1	X			AM 5	BM 1
1-18	CORRIDOR	T3.1	X			AM 5	BM 1
1-19	BOOKSTER PUMP	T3.1	X			AM 5	BM 1
1-20	FIRE PUMP	T3.1	X			AM 5	BM 1
1-21	MAIN LOBBY	T3.1	X			AM 6	BM 1
1-22	MAIN LOBBY	T3.1	X			AM 6	BM 1
1-23	MAIN LOBBY	T3.1	X			AM 6	BM 1
1-24	MAIN LOBBY	T3.1	X			AM 6	BM 1
1-25	MAIN LOBBY	T3.1	X			AM 7	BM 1
1-26	SECURITY	T3.1	X			AM 7	BM 1
1-27	VESTIBULE	T3.1	X			AM 7	BM 1
1-28	MECHANICAL	T3.1	X			AM 7	BM 1
1-29	MECHANICAL	T3.1	X			AM 8	BM 2
1-30	STAIR B	T3.1	X			AM 8	BM 2
1-31	VESTIBULE	T3.1	X			AM 8	BM 2
1-32	ELEC 1037	T3.1	X			AM 8	BM 2
1-33	ELEC 1038	T3.1	X			AM 8	BM 2
1-34	ME	T3.1	X			AM 9	BM 2
1-35	LOADING DOCK	T3.1	X			AM 9	BM 2
1-36	LOADING DOCK	T3.1	X			AM 9	BM 2
2-1	STAIR A	T3.2	X			AM 10	BM 2
2-2	VESTIBULE	T3.2	X			AM 10	BM 2
2-3	COMM ROOM 2007	T3.2	X			AM 10	BM 2
2-4	CHILDREN'S ROOM	T3.2	X			AM 10	BM 2
2-5	STAFF WORK ROOM	T3.2	X			AM 11	BM 2
2-6	TECH SERVICES	T3.2	X			AM 11	BM 2
2-7	MECHANICAL	T3.2	X			AM 11	BM 2
2-8	MECHANICAL	T3.2	X			AM 11	BM 2
2-9	CORRIDOR	T3.2	X			AM 11	BM 2
2-10	STAIR B	T3.2	X			AM 11	BM 2
2-11	VESTIBULE	T3.2	X			AM 11	BM 2
3-1	STAIR A	T3.3	X			AM 12	BM 3
3-2	COMPACT STORAGE	T3.3	X			AM 12	BM 3
3-3	COMPUTER	T3.3	X			AM 12	BM 3
3-4	COMPUTER	T3.3	X			AM 12	BM 3
3-5	SERVER	T3.3	X			AM 13	BM 3
3-6	COMM ROOM 3007	T3.3	X			AM 13	BM 3
3-7	COMM ROOM 3007	T3.3	X			AM 13	BM 3
3-8	STAFF WORK ROOM	T3.3	X			AM 13	BM 3
3-9	STAFF WORK ROOM	T3.3	X			AM 14	BM 3
3-10	MECHANICAL	T3.3	X			AM 14	BM 3
3-11	MECHANICAL	T3.3	X			AM 14	BM 3
3-12	STAIR B	T3.3	X			AM 14	BM 3
3-13	LOCKER	T3.3	X			AM 14	BM 3
4-1	MECHANICAL	T3.4	X			AM 15	BM 3
4-2	ELEVATOR C	T3.4	X			AM 15	BM 3
4-3	VESTIBULE	T3.4	X			AM 15	BM 3
4-4	SPECIAL COLLECTIONS CONC.	T3.4	X			AM 15	BM 3
4-5	SPECIAL COLLECTIONS CONC.	T3.4	X			AM 16	BM 3
4-6	SPECIAL COLLECTIONS CONC.	T3.4	X			AM 16	BM 3
4-7	MECHANICAL	T3.4	X			AM 16	BM 3
4-8	STAIR B	T3.4	X			AM 16	BM 3
4-9	VESTIBULE 4015	T3.4	X			AM 16	BM 3
5-1	STAIR C	T5.1	X			AM 17	BM 3
5-2	VESTIBULE	T5.2	X			AM 17	BM 3
5-3	ELEVATOR	T5.3	X			AM 17	BM 3
5-4	STAIR B	T5.4	X			AM 17	BM 3

**NOTE: FIRE ALARM RELEASE:** All rotated doors shall release the controlled egress function in order to permit emergency exit during a FIRE ALARM ACTIVATION.

Motion detector and panic hardware cabling for 1st floor devices shall route to BM-1.  
Motion detector and panic hardware cabling for 2nd floor devices shall route to BM-2.  
Panic hardware cabling for 3rd floor devices shall route to BM-3.  
Panic hardware cabling for 4th floor devices shall route to BM-3.

**01 RISER DIAGRAM - BACKBONE & STATION CABLE**  
SCALE: NONE  
NOTE: REFER TO FLOOR PLAN SHEETS FOR DEVICE QUANTITY AND LOCATION  
RISER DIAGRAMS - SYSTEMS  
SCALE: NONE

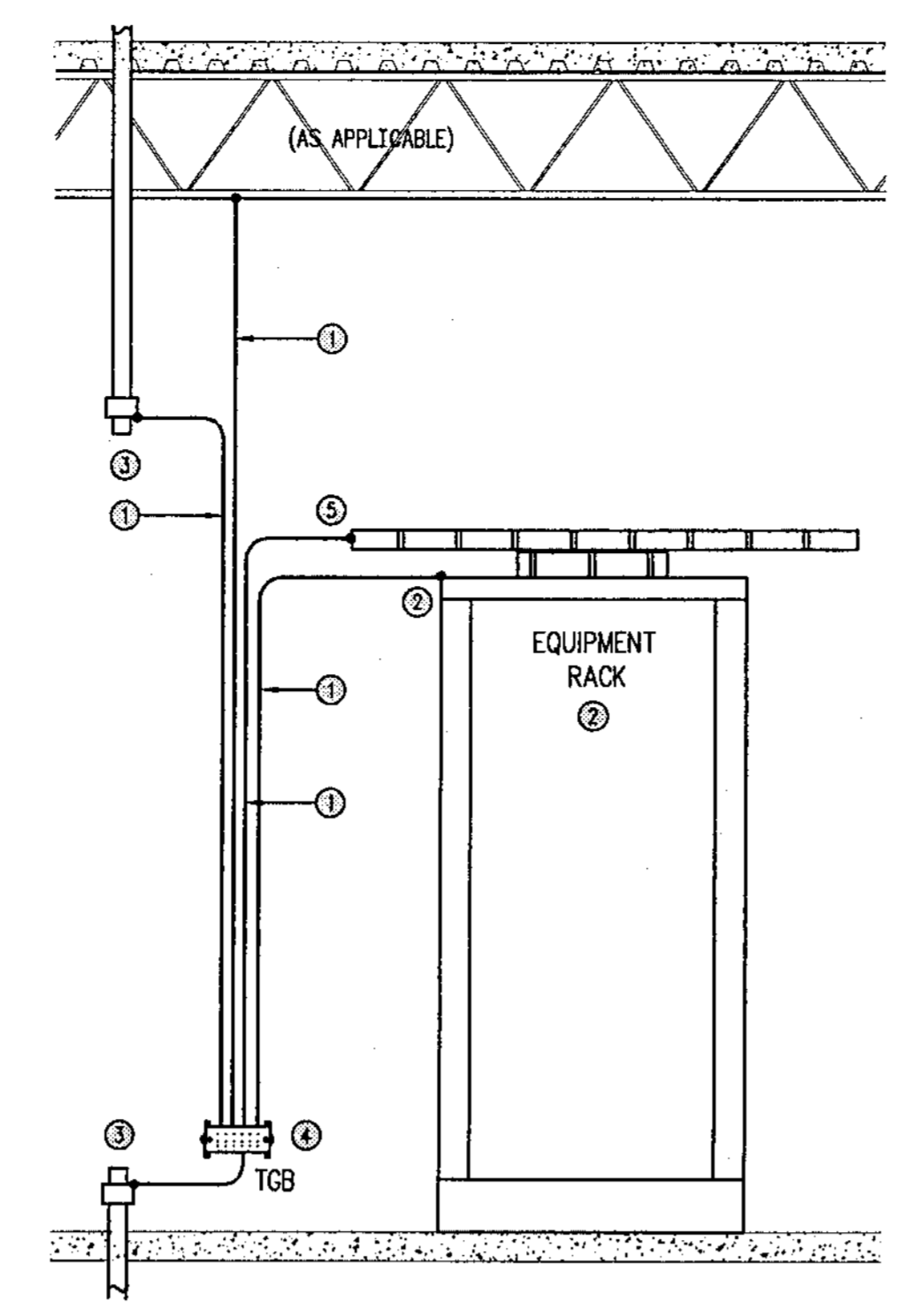
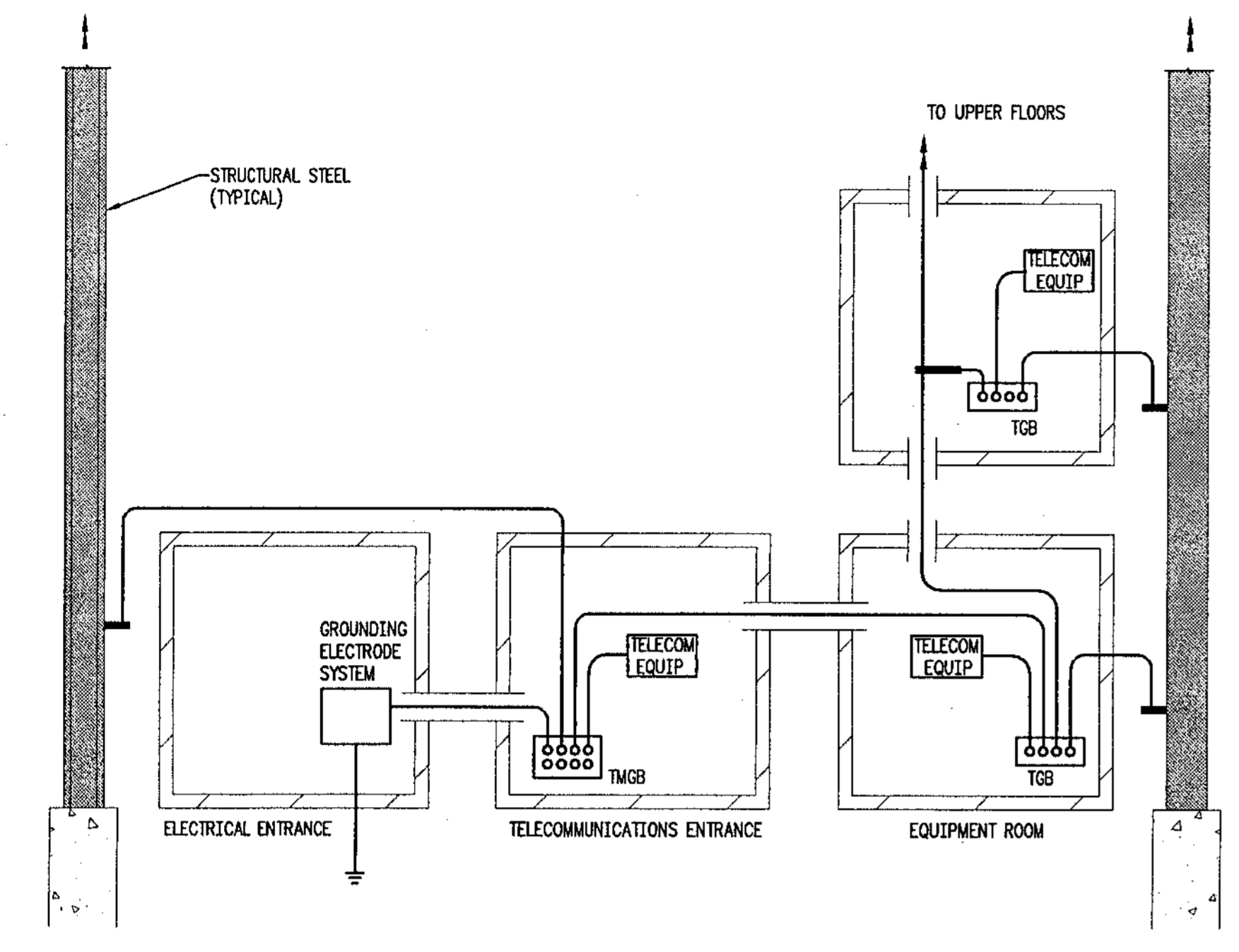
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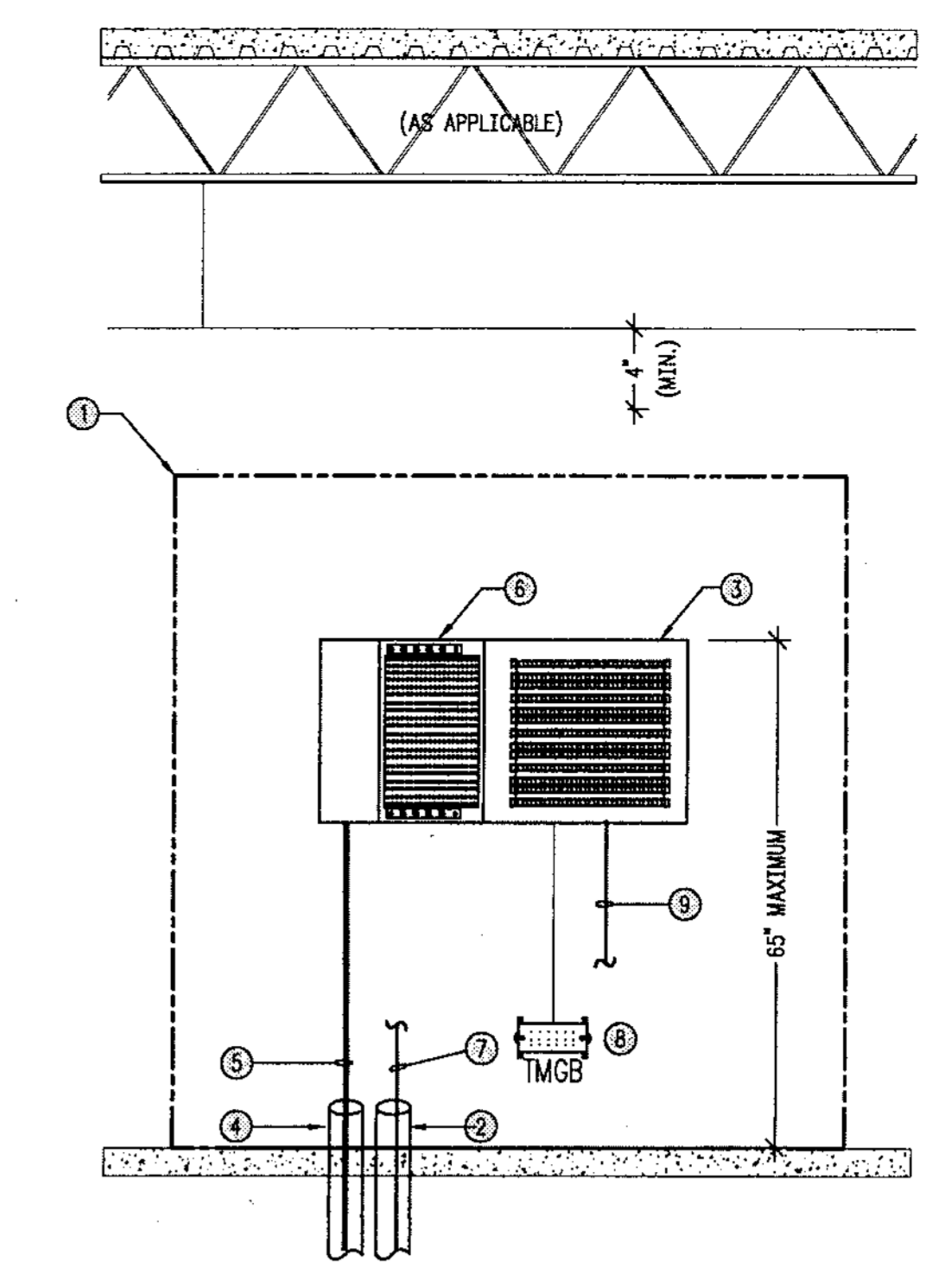
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- ① #6 AWG COPPER GROUNDING CONDUCTOR
- ② BOND RACKS TO BUSBAR
- ③ BOND METAL CONDUIT TO BUSBAR
- ④ REFER TO DETAIL 6 OF THIS SHEET AND RISER DIAGRAM FOR TGB CONNECTIVITY.
- ⑤ BOND CABLE TRAY & RUNWAY TO BUSBAR.



- GENERAL**  
 COORDINATION OF THE SERVICE ENTRANCE FACILITY WITH TELCO UTILITY SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- NOTES:**
- ① 3/4" PLYWOOD PANEL 6H X 4"W. PAINTED WITH 2 COATS OF FIRE RETARDANT PAINT.
  - ② 4" CONDUITS FOR CAMPUS FIBER OPTICAL CABLING.
  - ③ INSTALL ORANGE COVERS OVER DEMARC TERMINALS.
  - ④ 4" CONDUIT FOR TELCO SERVICE ENTRANCE.
  - ⑤ TELCO UTILITY LINES.
  - ⑥ PRIMARY PROTECTION FIELD BLOCK. \*\*IF PRIMARY PROTECTION IS NOT FURNISHED IN THE TELCO CONTRACT, THEN PROVIDE SERVICE ENTRANCE PROTECTION BLOCK WITH 5-PIN SOLID STATE 300V NOMINAL CLAMPING PROTECTORS & 350mA SNEAK CURRENT PROTECTION.\*\*
  - ⑦ FIBER OPTIC CABLING FOR CAMPUS NETWORK SHALL TERMINATE INTO RACK MOUNTED F.O. CABINET.
  - ⑧ PROVIDE COPPER BUSBAR AND GROUNDING. REFER TO DETAIL 6 THIS SHEET AND RISER DIAGRAM FOR CONNECTIVITY.
  - ⑨ UTP COPPER CABLE CROSS CONNECTIONS TO PATCH PANEL TERMINATIONS IN THE CROSS CONNECT FIELD.

**01 SCHEMATIC OF GROUNDING / BONDING NETWORK**

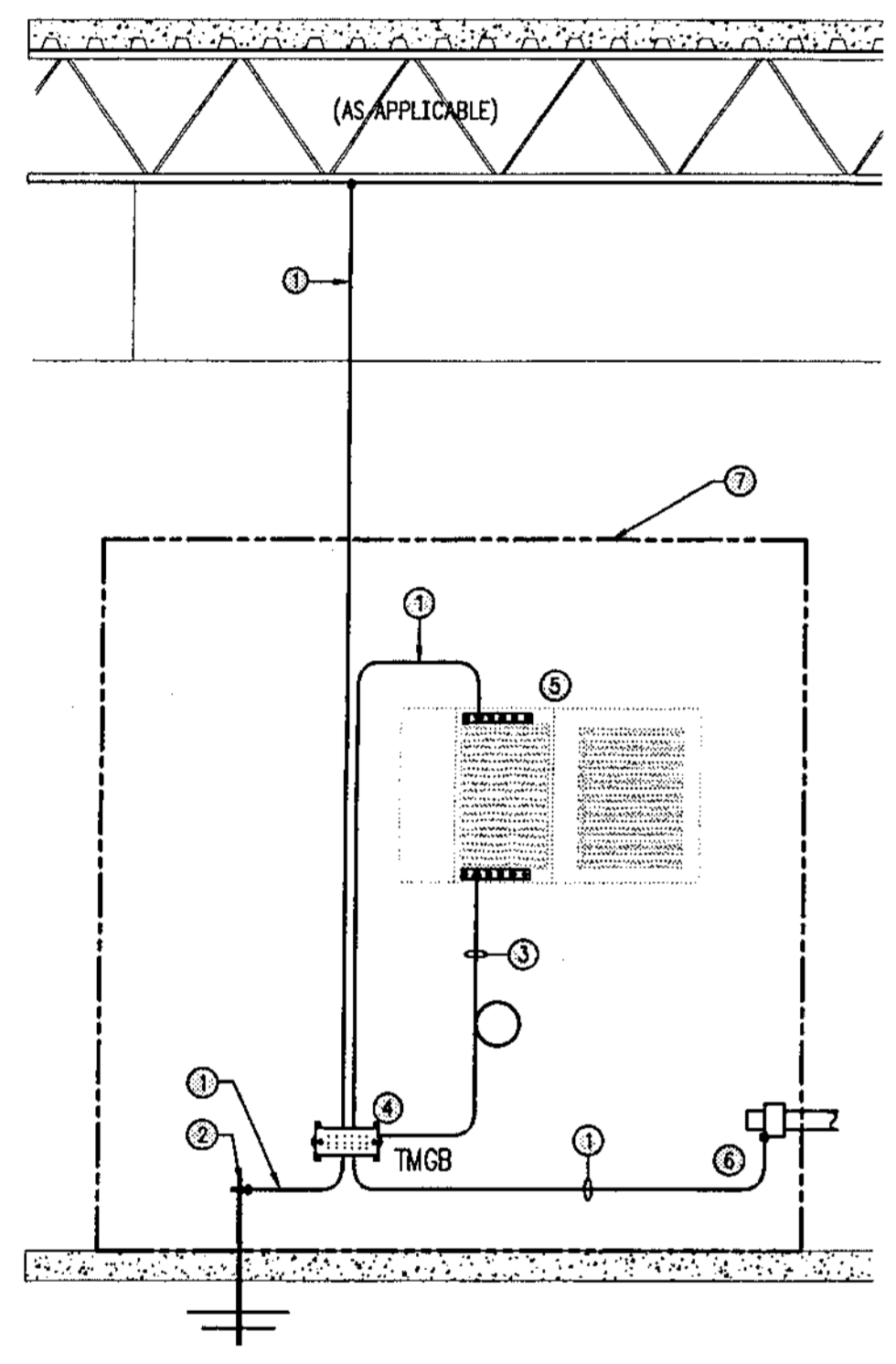
**02 GROUNDING DETAIL (TYP. TELECOMMUNICATIONS ROOM)**

**03 TELECOMMUNICATIONS PRIMARY PROTECTION DETAIL**

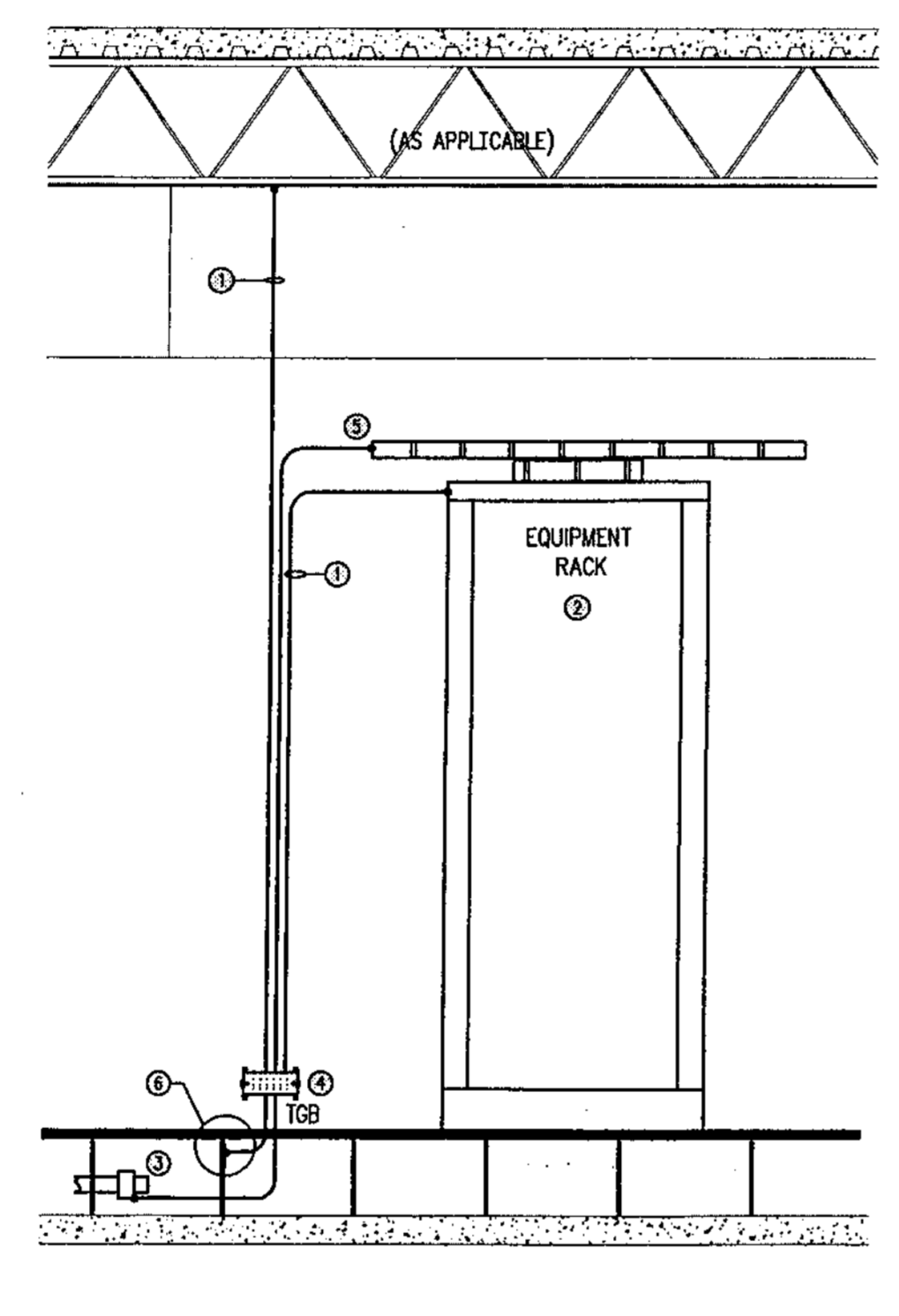
SCALE: NONE  
 REFER TO GROUNDING RISER DIAGRAM FOR CONNECTIVITY

SCALE: NONE

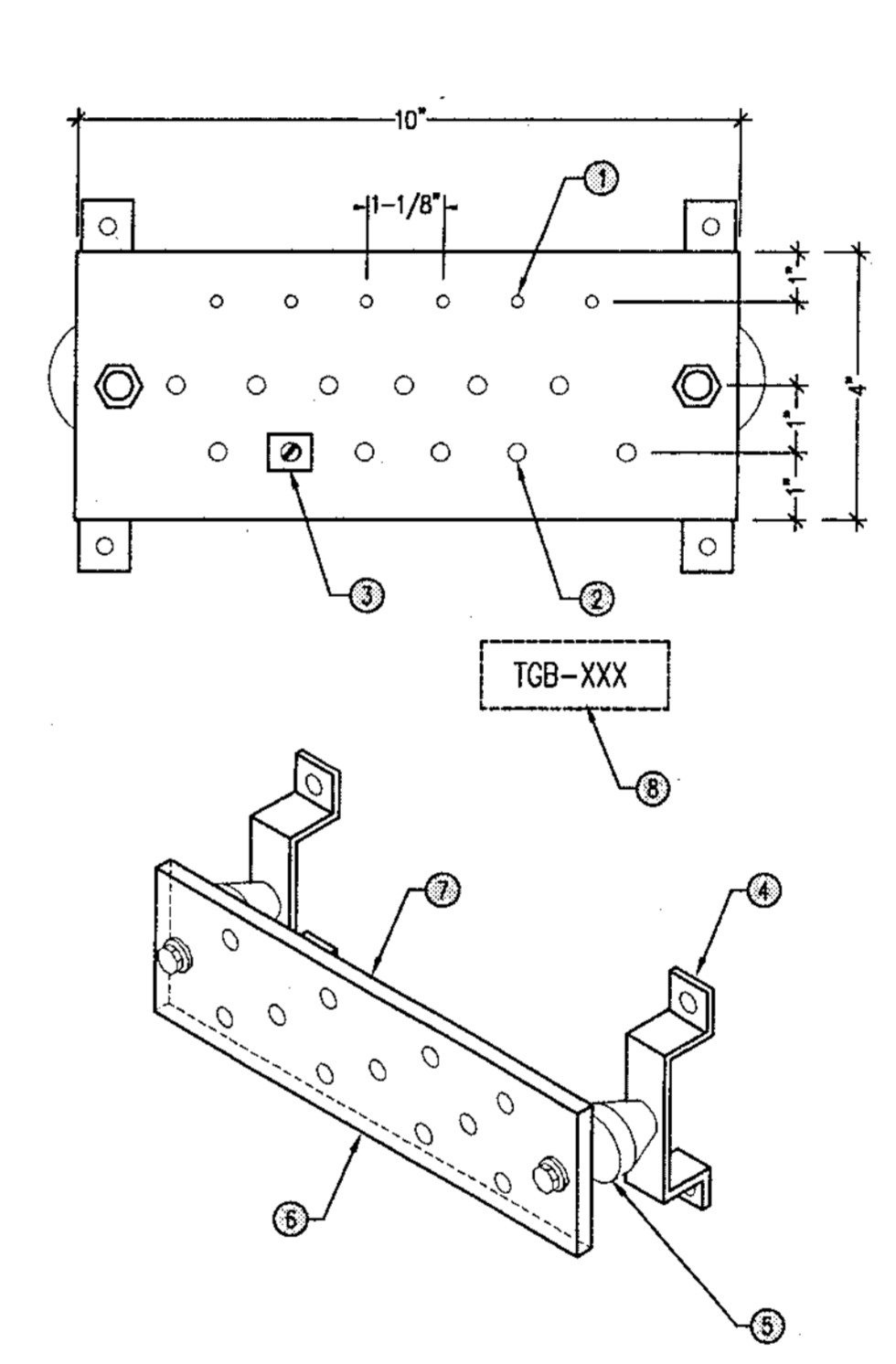
SCALE: NONE



- ① #6 AWG COPPER GROUNDING CONDUCTOR.
- ② SUPPLEMENTAL GROUNDING ELECTRODE (NEC 800-11c).
- ③ #6 AWG COPPER GROUNDING CONDUCTOR & 5' COIL FOR CONNECTION TO OVERCURRENT PROTECTIVE DEVICE.
- ④ REFER TO DETAIL 6 OF THIS SHEET AND RISER DIAGRAM FOR TGBS CONNECTIVITY.
- ⑤ PROTECTION FIELD. REFER TO DETAIL 3 THIS SHEET FOR MOUNTING AND CONNECTIVITY.
- ⑥ BOND METAL CONDUIT TO BUSBAR.
- ⑦ PLYWOOD BACKBOARD.



- ① #6 AWG GROUNDING CONDUCTOR
- ② BOND RACKS TO BUSBAR
- ③ BOND METAL CONDUIT TO BUSBAR
- ④ REFER TO DETAIL 6 AND RISER DIAGRAM FOR TGB CONNECTIVITY.
- ⑤ BOND CABLE TRAY & RUNWAY TO BUSBAR
- ⑥ BOND ACCESS FLOORING TO BUSBAR.



- GENERAL**
- 1. ALL HARDWARE (BOLTS, NUTS, WASHERS, ETC.) SHALL BE SOLID COPPER OR BRONZE. COPPER PLATING SHALL NOT BE ACCEPTABLE.
  - 2. BUSBAR SHALL BE 1/4" THICK (MINIMUM).
  - 3. INCREASE LENGTH OF BUSBAR FOR NUMBER OF CONNECTIONS, AS REQUIRED TO MAINTAIN CORRECT SPACING BETWEEN LUGS.
- NOTE**
- ① #6/32 (TYPICAL)
  - ② #9/32 (TYPICAL)
  - ③ PROVIDE COPPER CABLE CLAMPS FOR CABLE CONNECTIONS (BY DIV16).
  - ④ STANDOFF BRACKET
  - ⑤ INSULATOR
  - ⑥ CHATSWORTH # 10622-00
  - ⑦ COPPER BUSBAR
  - ⑧ PROVIDE WHITE CORE BAKELITE NAMEPLATE FASTENED TO A WALL/SURFACE BELOW BUSBAR AT EACH FLOOR, WITH DESIGNATION ENGRAVED THEREON IN 1/2" HIGH LETTERS.

**04 GROUNDING DETAIL (TYPICAL ENTRANCE FACILITY)**

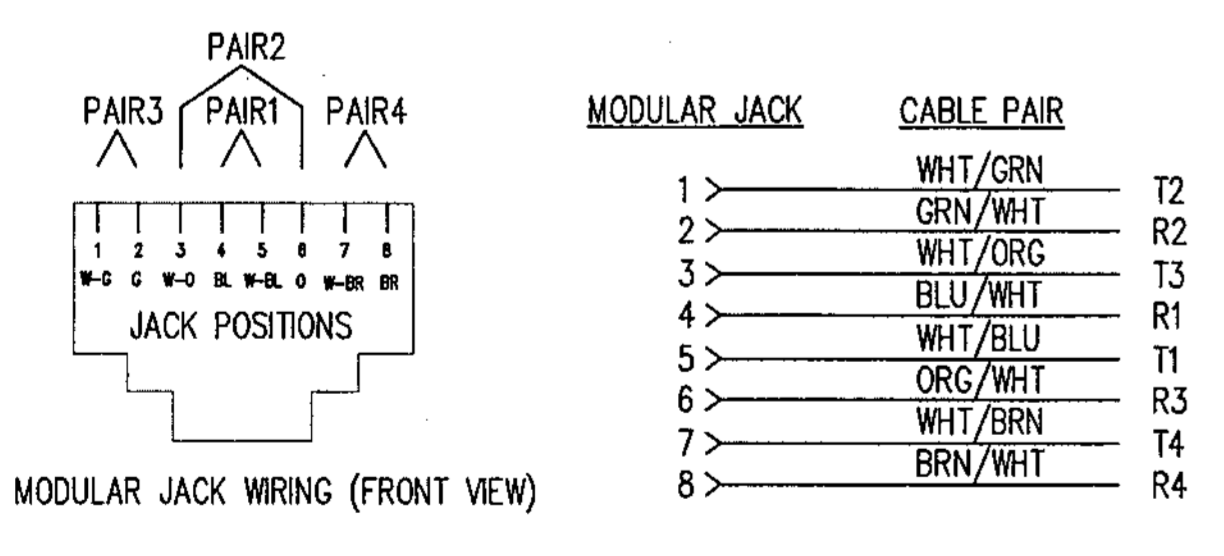
**05 GROUNDING DETAIL (TYPICAL EQUIPMENT ROOM)**

**06 TYPICAL GROUND BUS BAR**

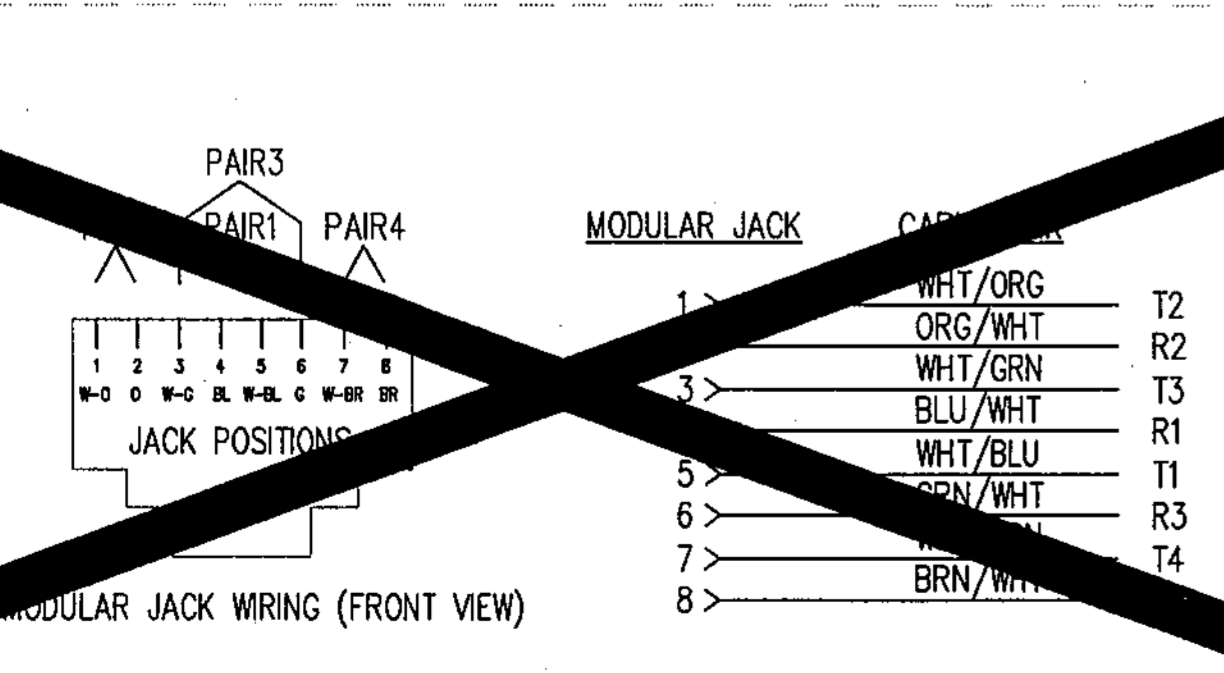
SCALE: NONE

SCALE: NONE

SCALE: NONE



**ANSI EIA/TIA 568A PIN-OUT**



**ANSI EIA/TIA 568B PIN-OUT**

**07 MODULAR JACK WIRING DETAIL**

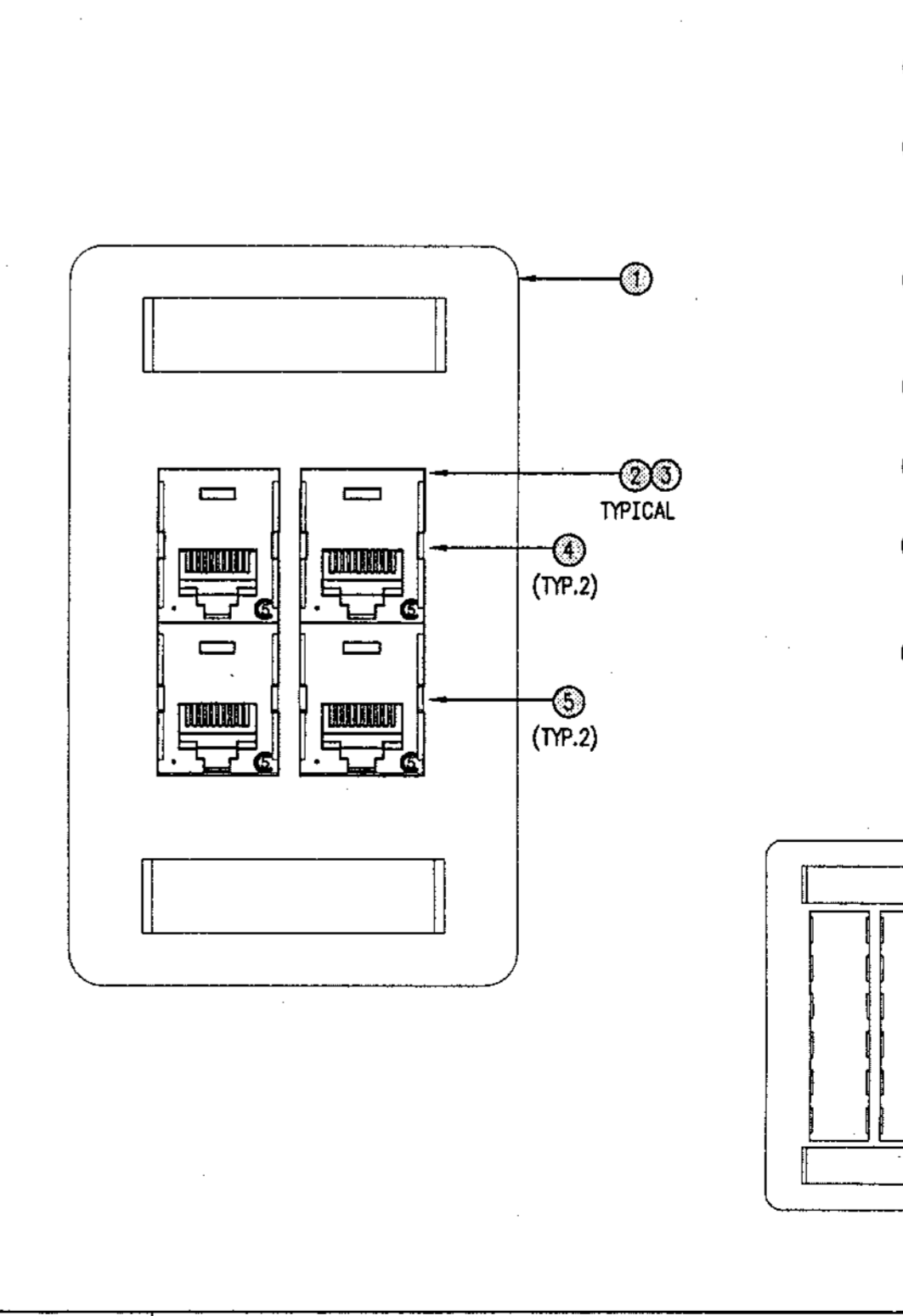
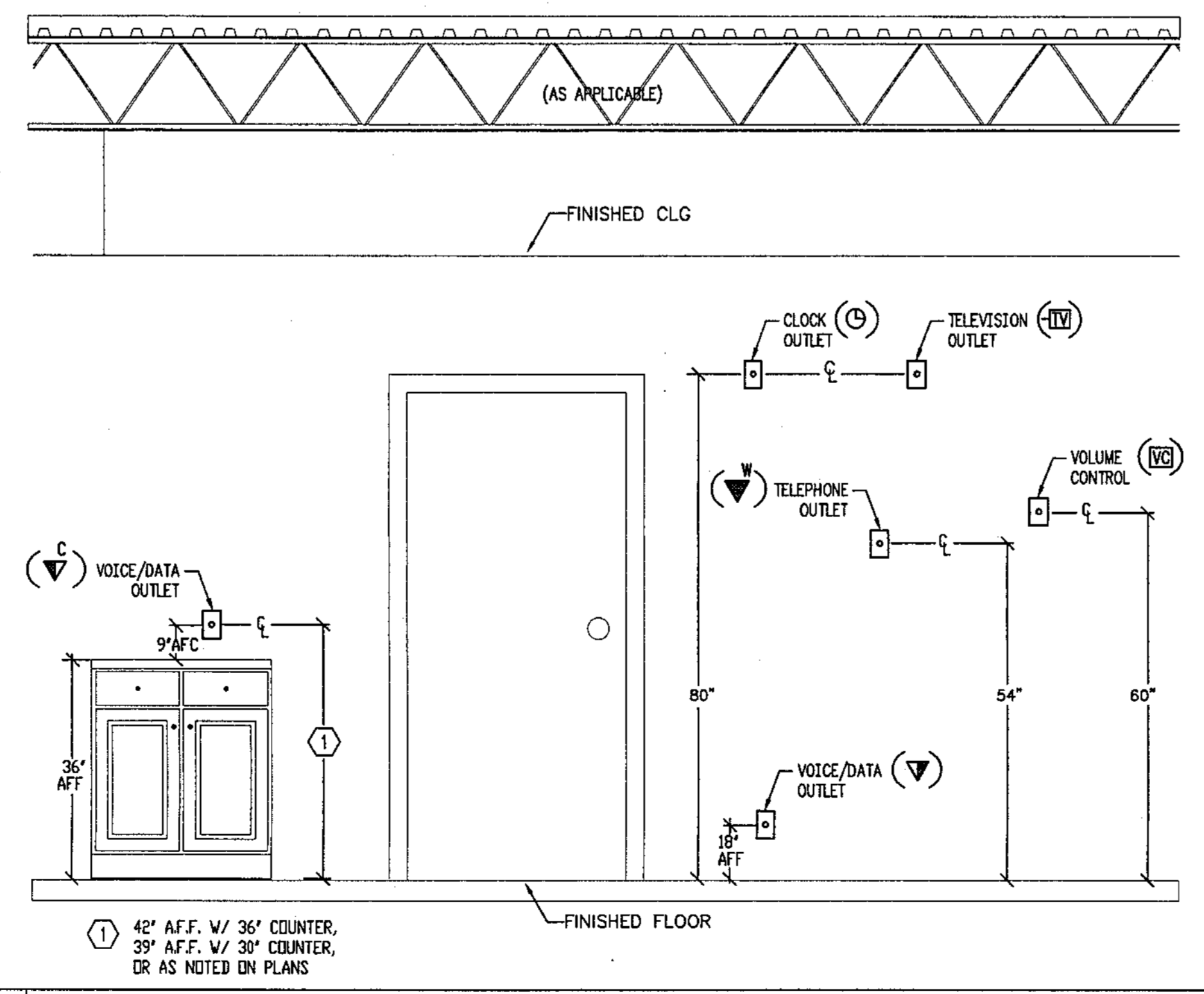
**08 TYP. SYS OUTLET MOUNTING HEIGHT DETAIL**

**09 TYPICAL VOICE/DATA OUTLET**

SCALE: NONE  
 DETAILS - SYSTEMS  
 SCALE: NONE

SCALE: NONE

SCALE: NONE



- ① 4 MODULE SPACE, SINGLE GANG FACEPLATE DESIGN SELECTION: (PANDUIT #PFL4)
- ② UNIVERSAL 8 POSITION, 8 WIRE MODULE. DESIGN SELECTION: (PANDUIT #U588-XX). VOICE MODULES - WHITE. DATA MODULES - BLUE.
- ③ PROVIDE BLANK MODULES FOR ALL UNPOPULATED MODULE LOCATIONS. DESIGN SELECTION: (PANDUIT #CMB).
- ④ THE TOP TWO MODULES SHALL BE USED FOR VOICE CABLING TERMINATIONS.
- ⑤ THE BOTTOM TWO MODULES SHALL BE USED FOR DATA CABLING TERMINATIONS.
- ⑥ FOR GREATER THAN 4 MODULE SPACE REQUIREMENTS PROVIDE A 6 MODULE SPACE, SINGLE GANG FACEPLATE DESIGN SELECTION: (PANDUIT #PFL6).
- ⑦ PROVIDE WEATHERPROOF FACEPLATE AS INDICATED. DESIGN SELECTION: (PANDUIT #PFW4-XX)

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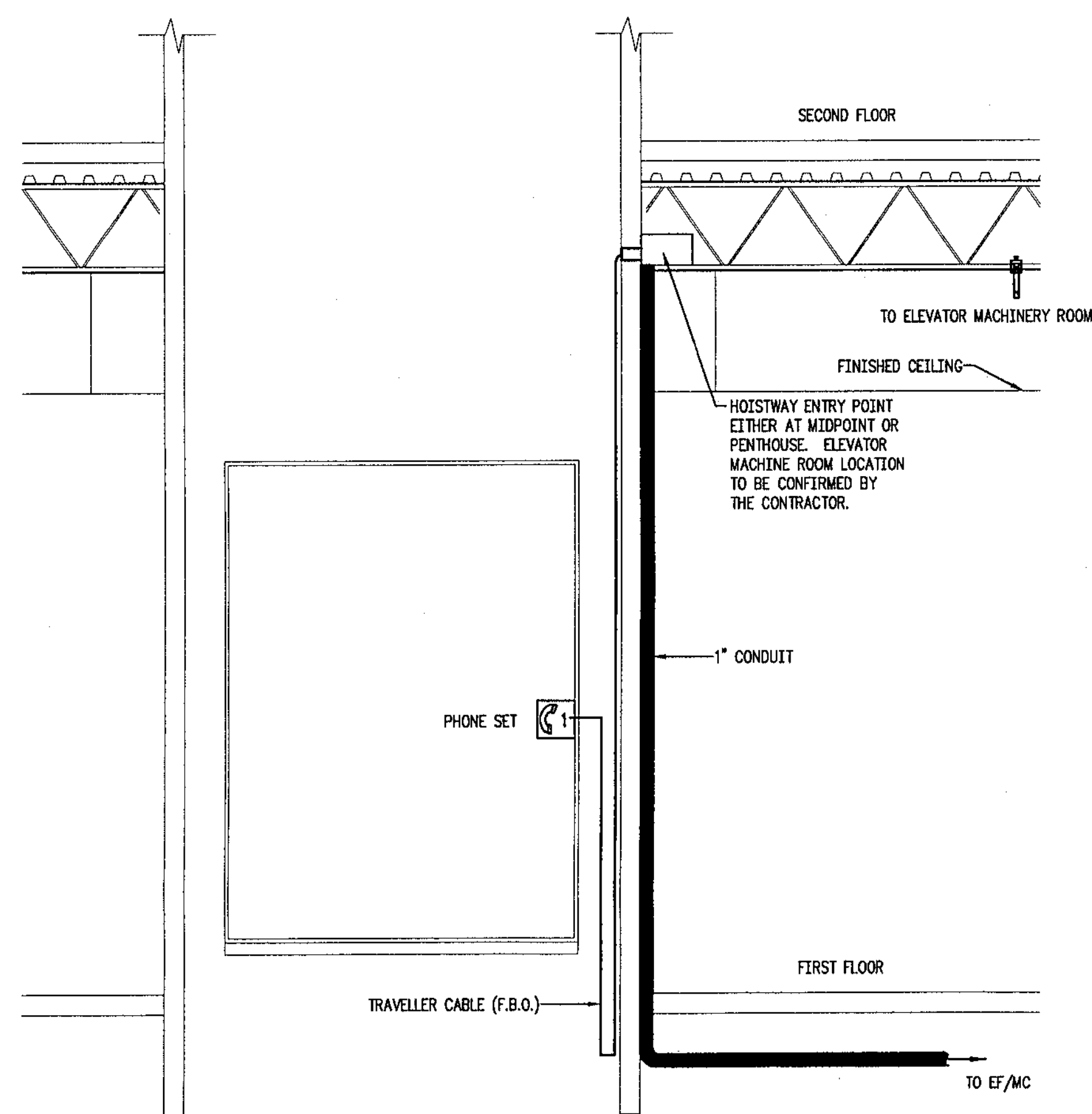
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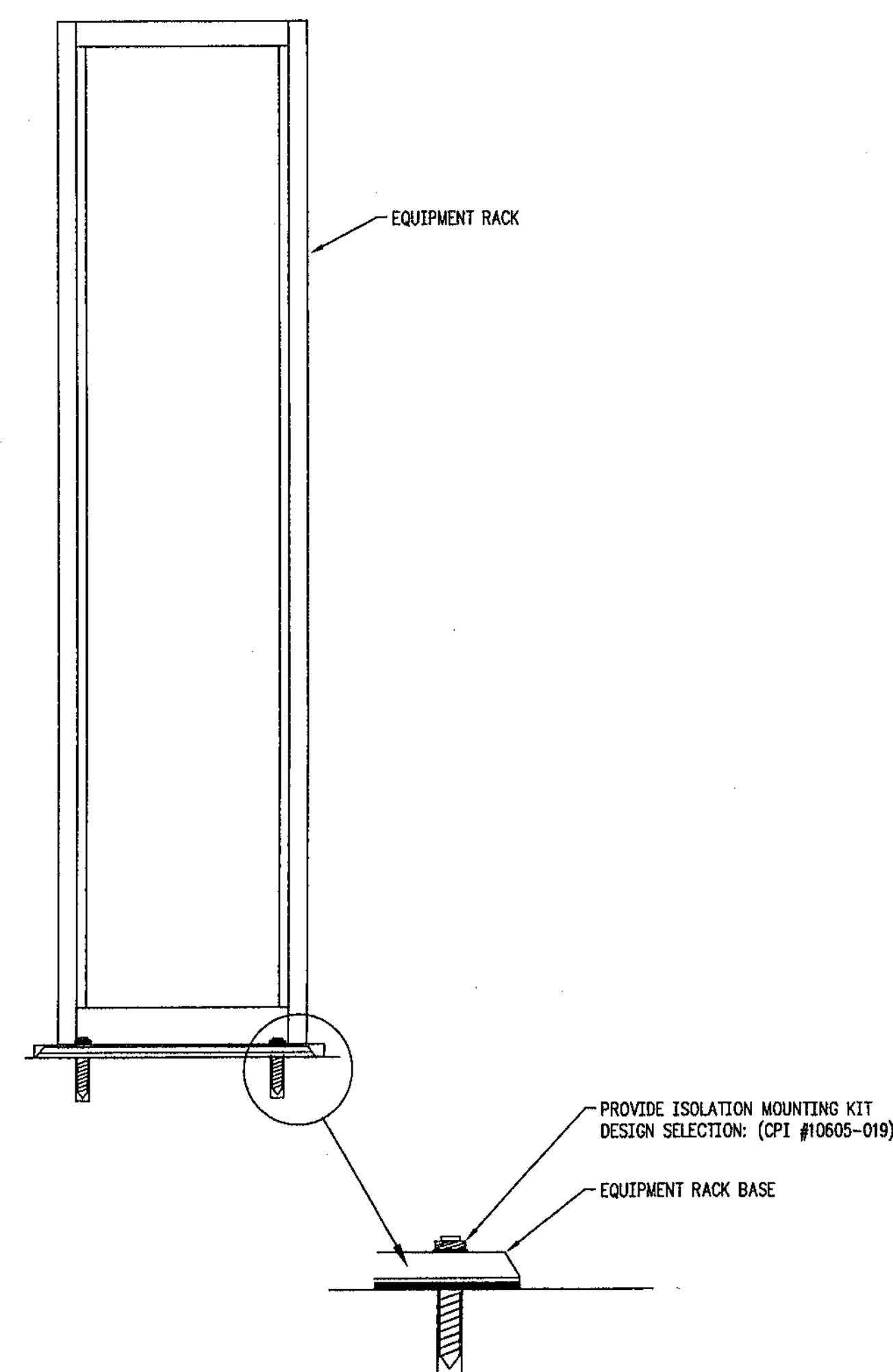
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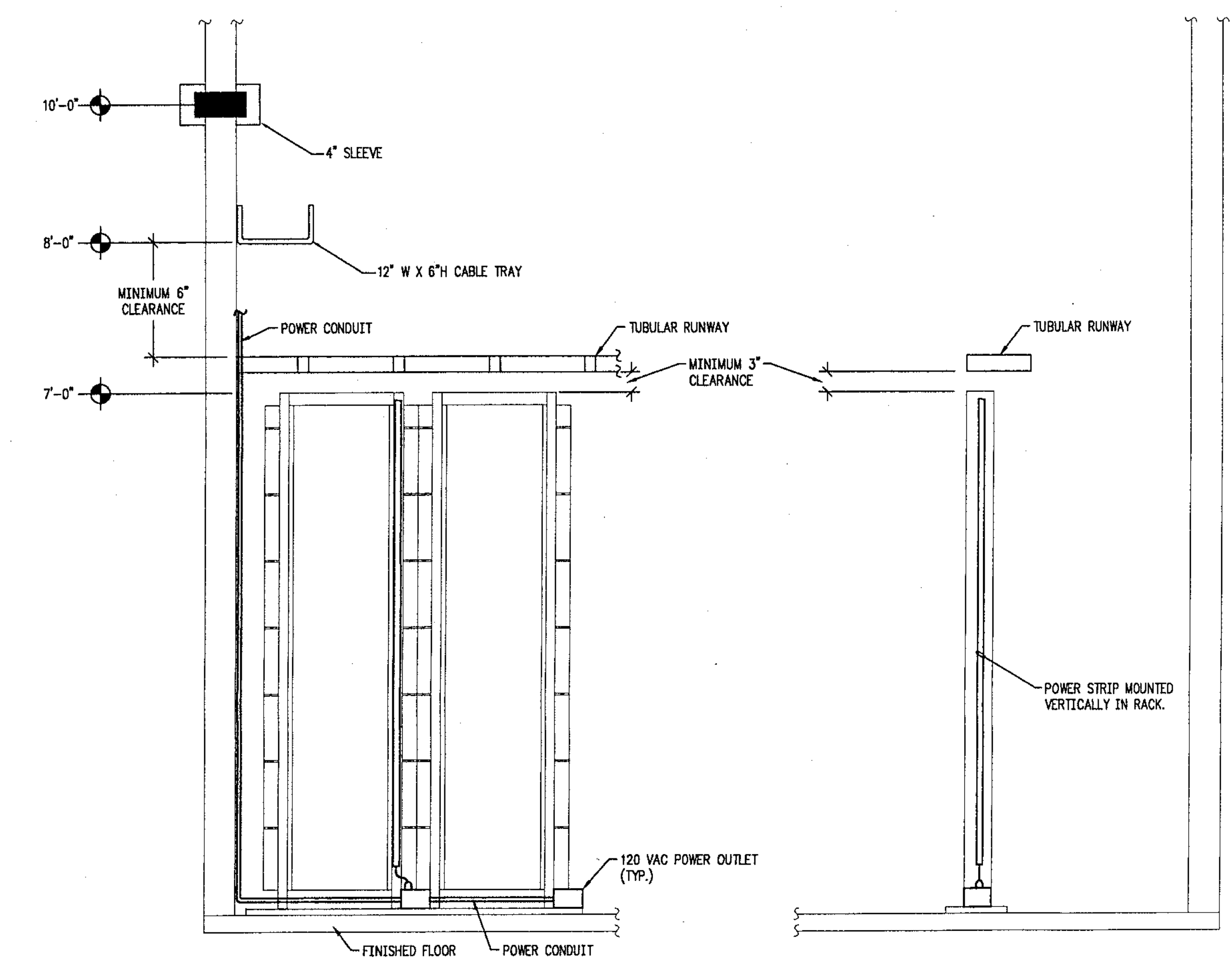
**01 ELEVATOR CAB PHONE CONNECTION**

SCALE: NONE



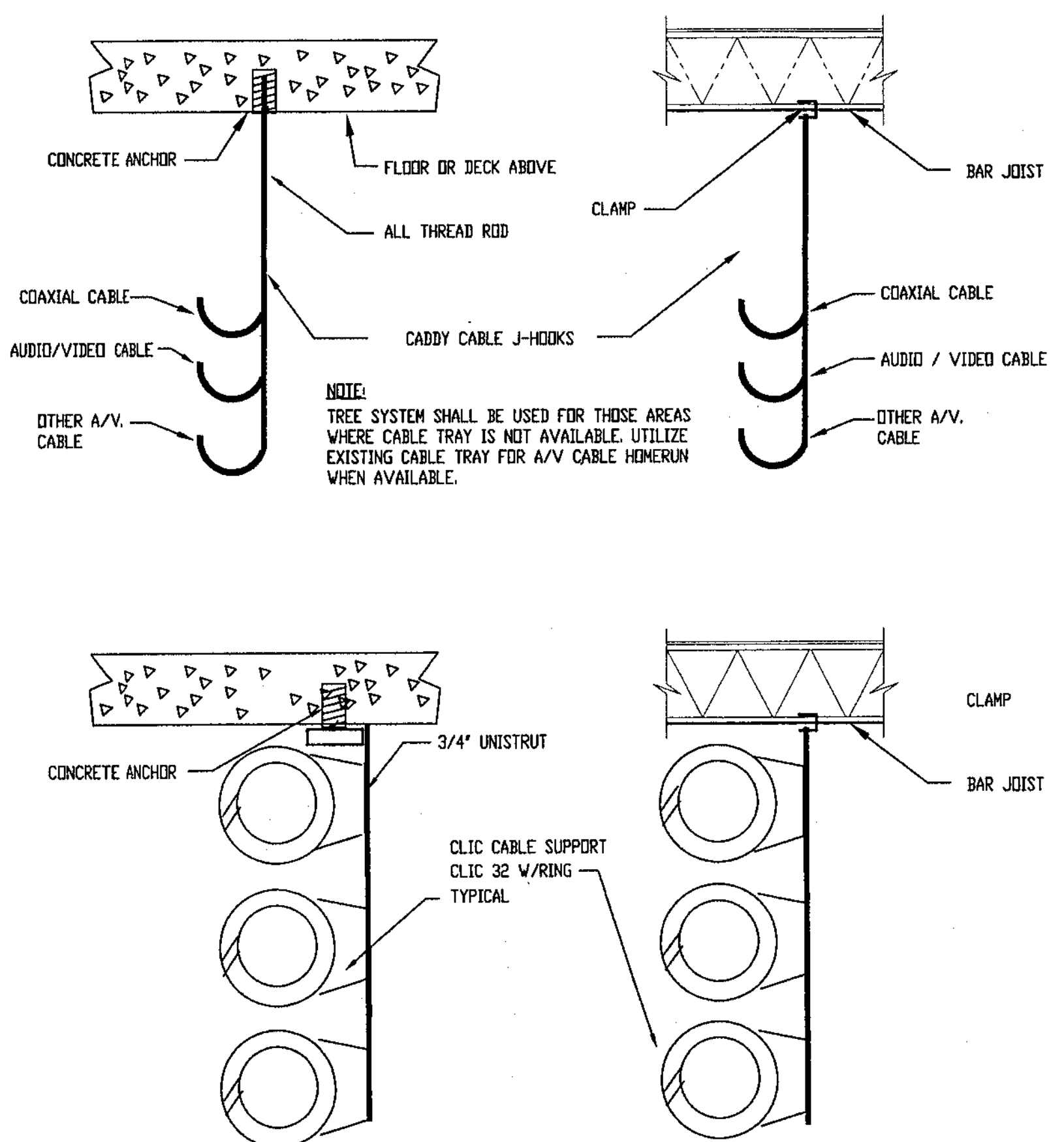
**02 FLOOR RACK MOUNTING DETAIL**

SCALE: NONE  
 TYPICAL



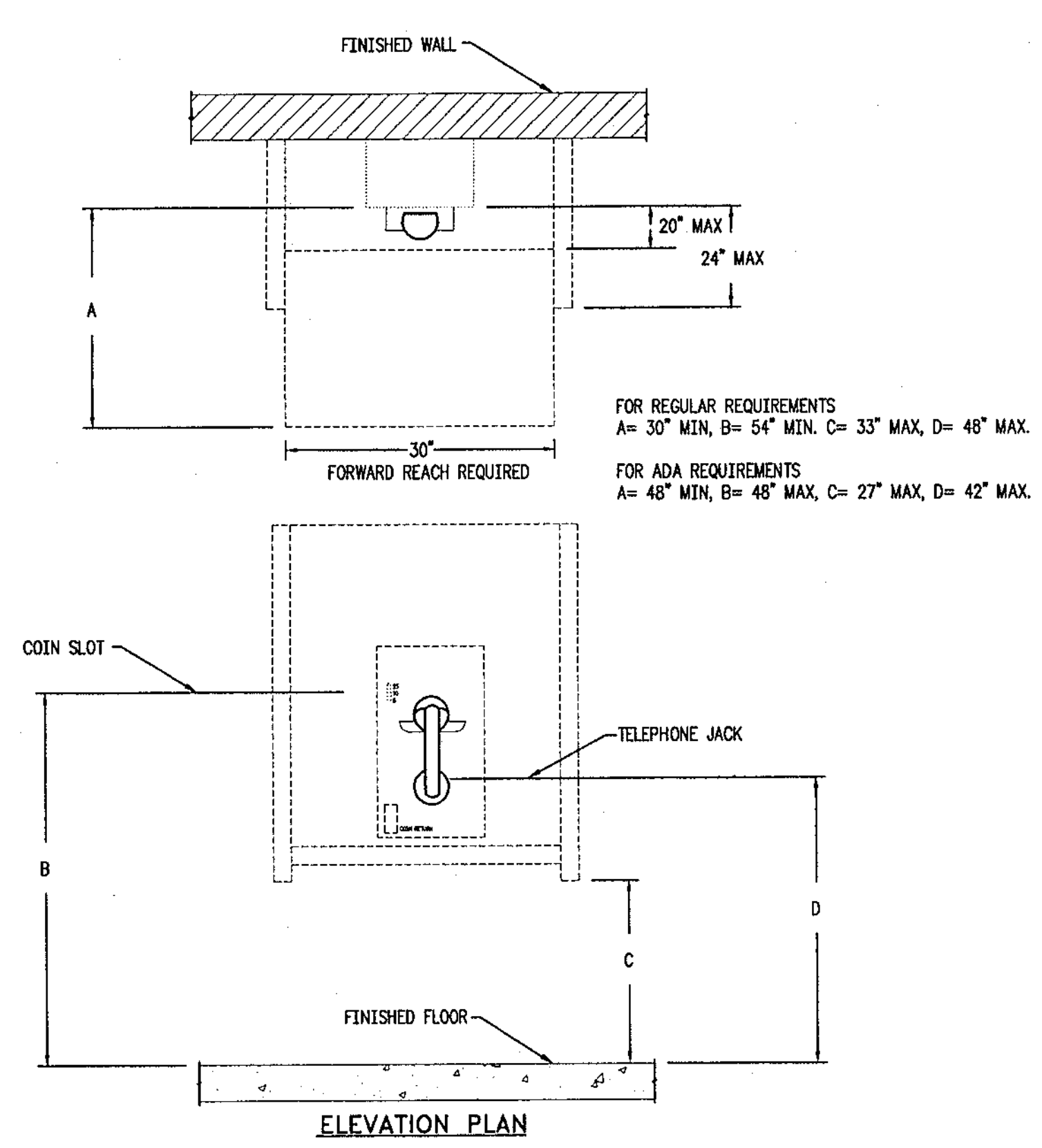
**03 RACK POWER DETAIL**

SCALE: NONE  
 TYPICAL



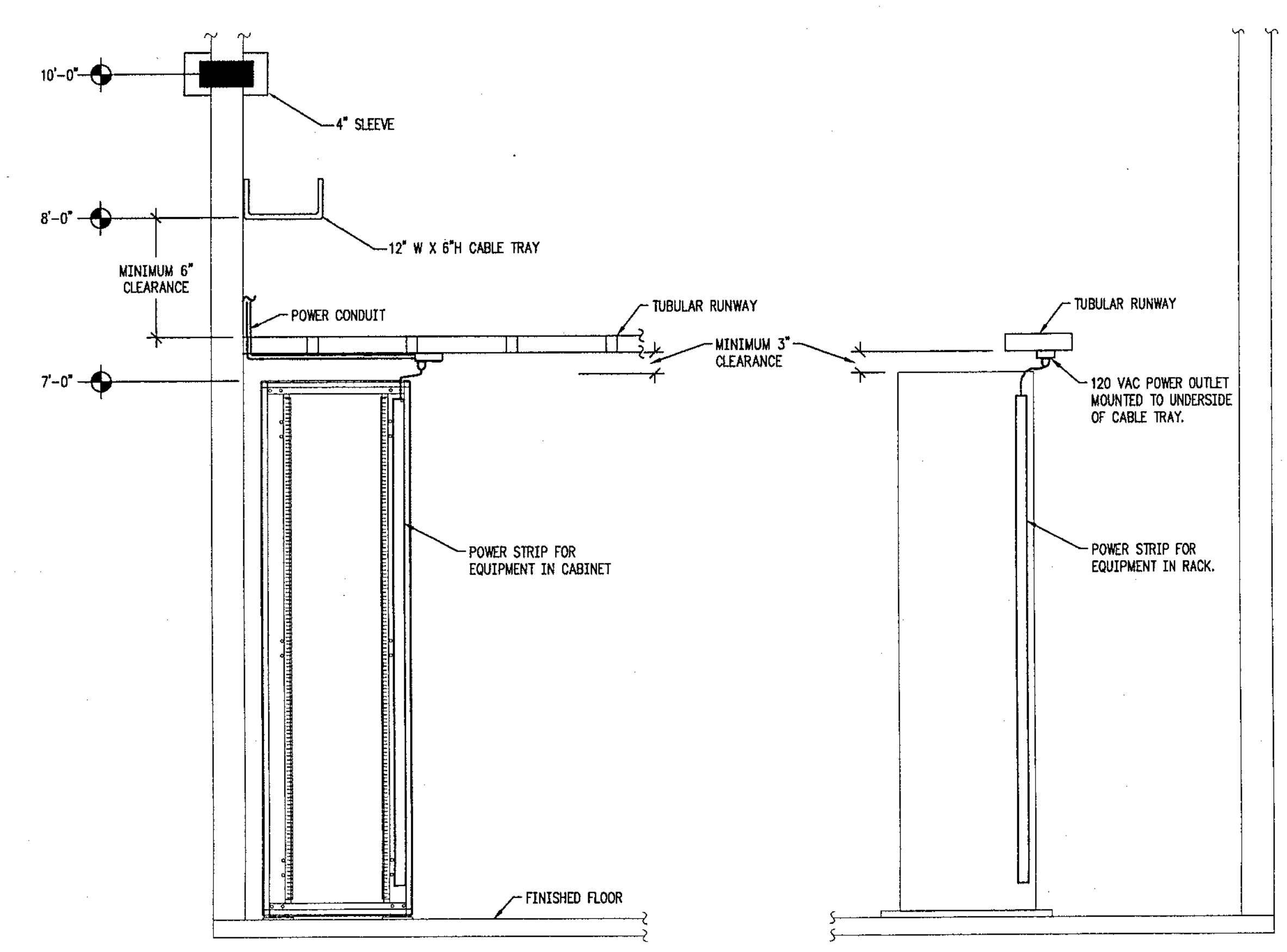
**04 AUDIO / VIDEO CABLE HANGERS**

SCALE: NONE



**05 MOUNTING HEIGHTS AND CLEARANCES FOR WALL PHONES**

SCALE: NONE



**06 CABINET POWER DETAIL**

SCALE: NONE  
 TYPICAL

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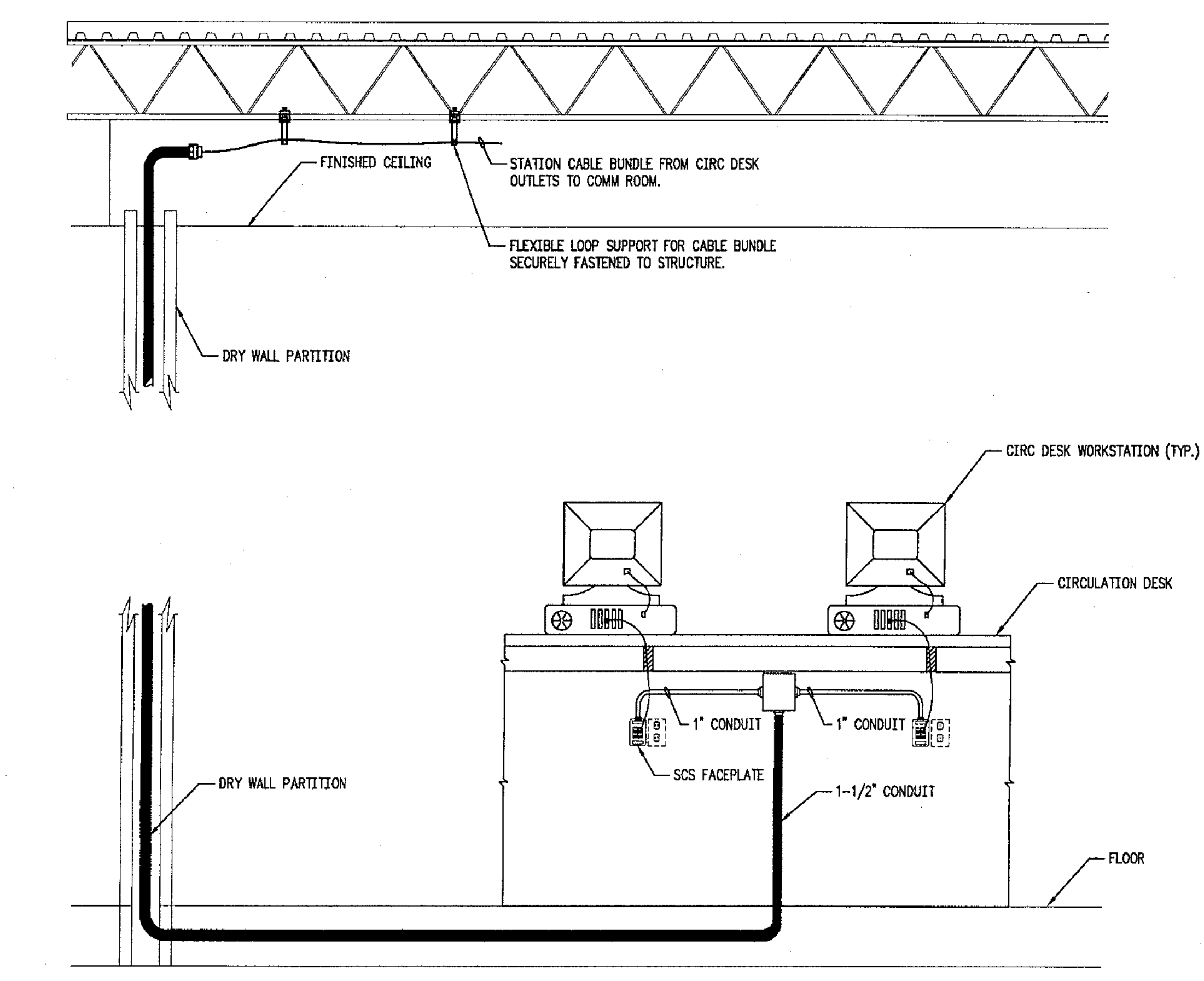
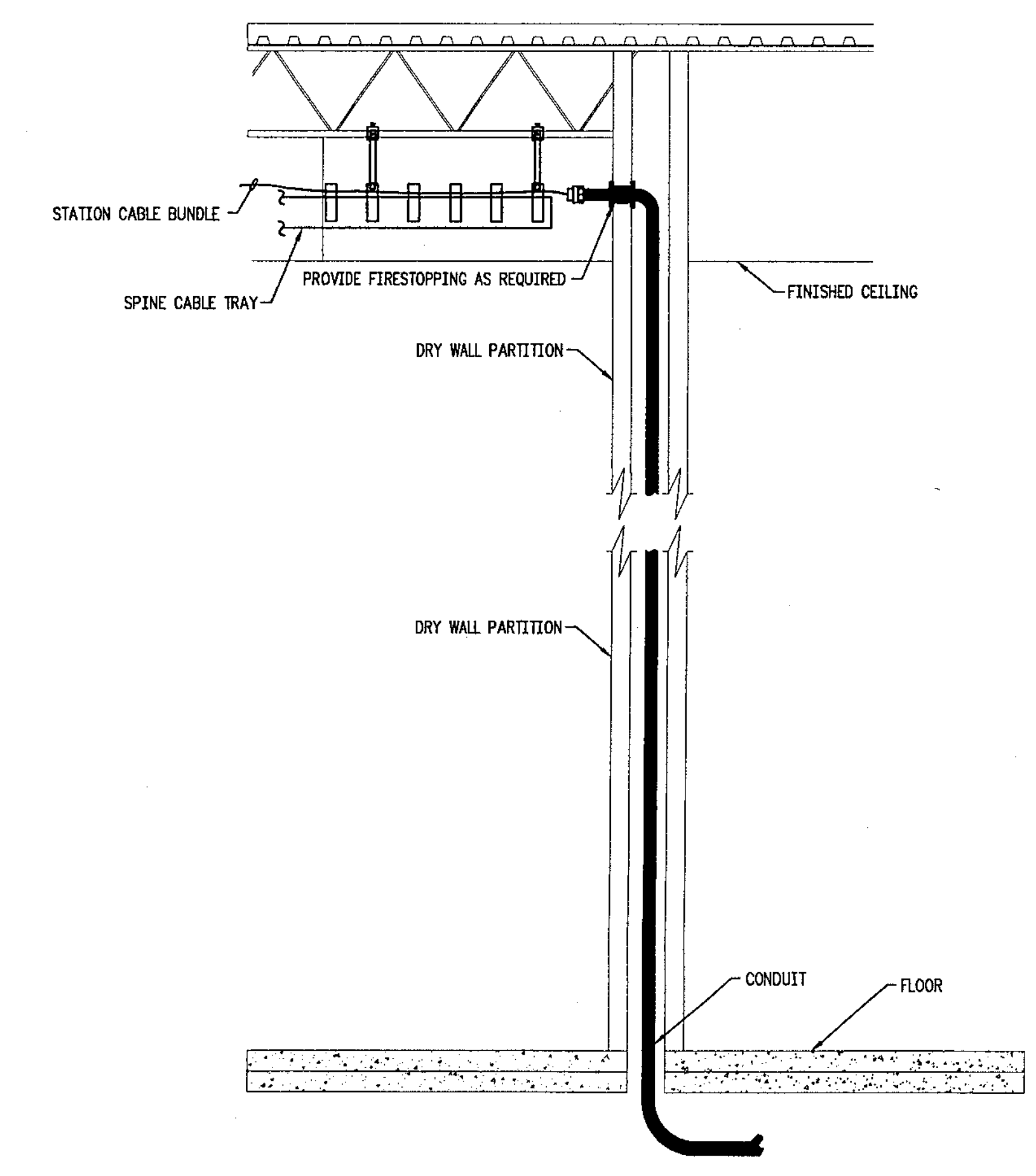
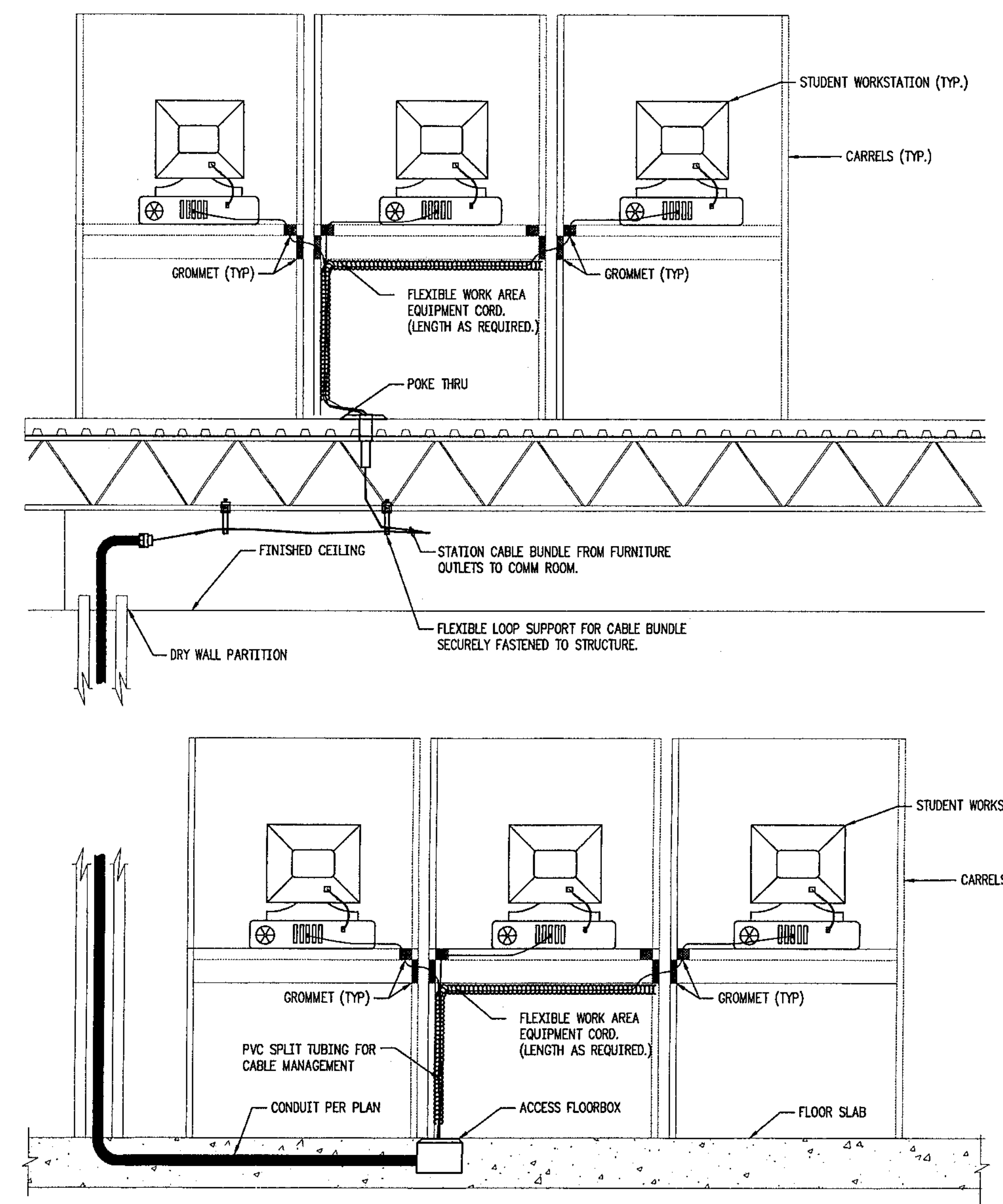
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01 VOICE/DATA CABLING FEED FOR CARRELS

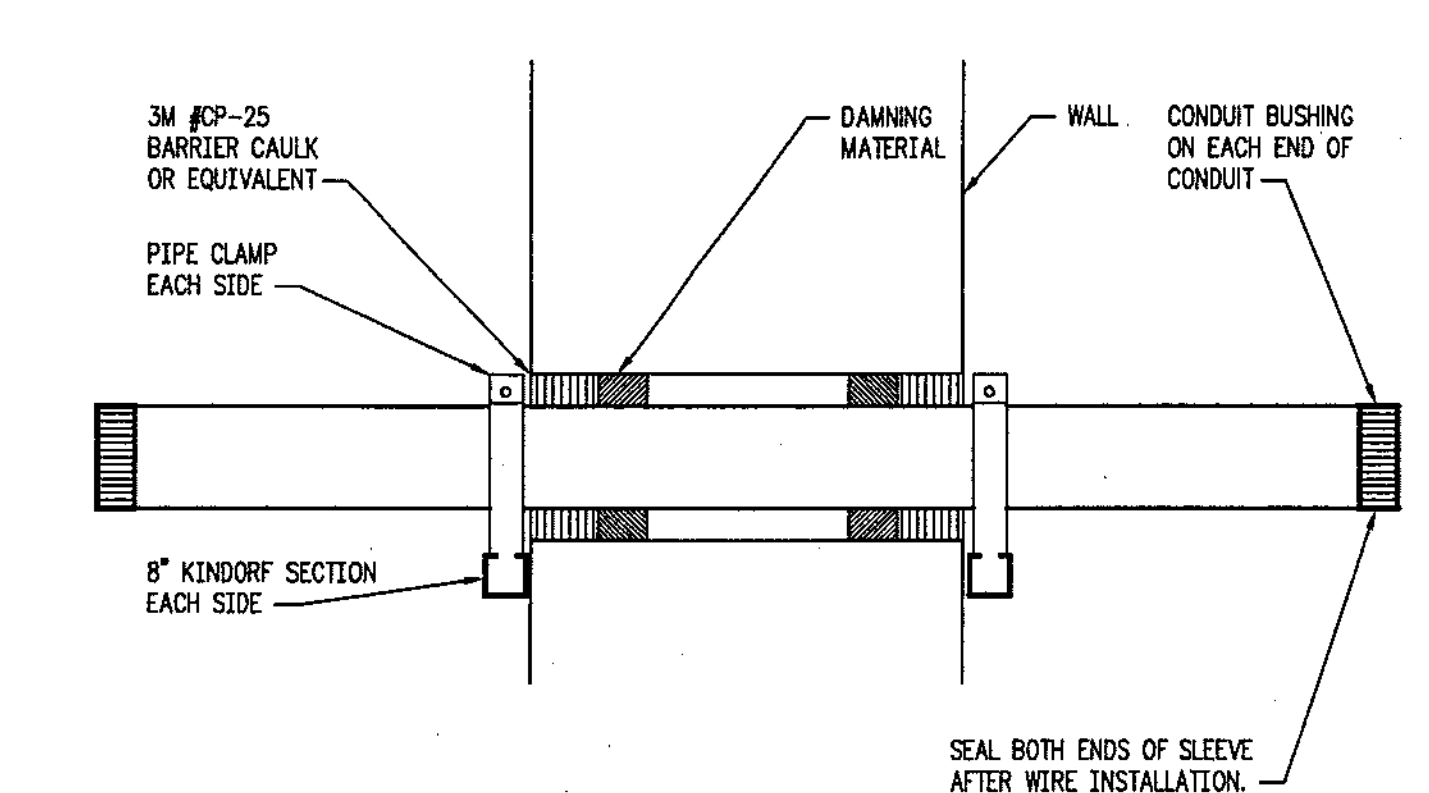
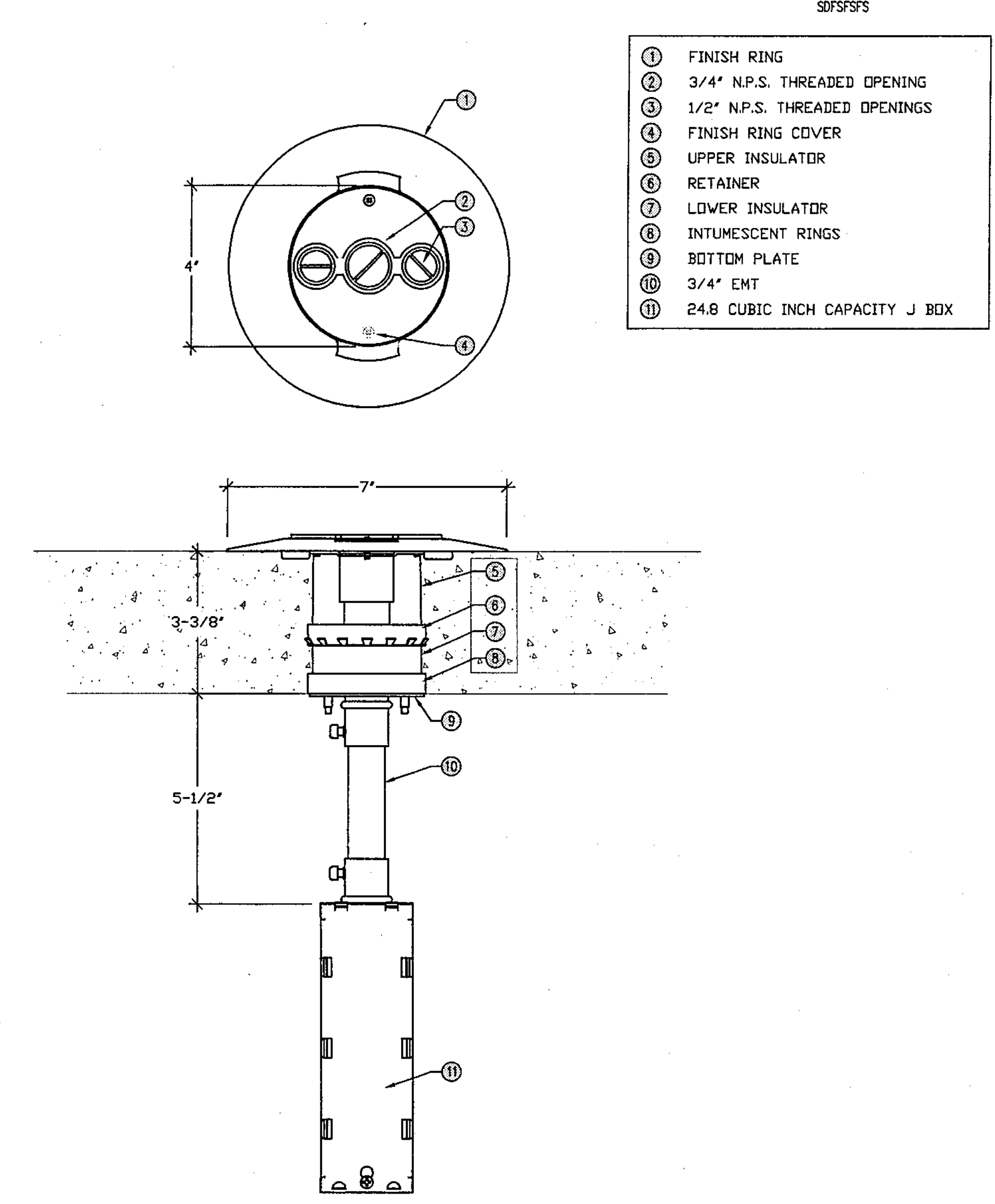
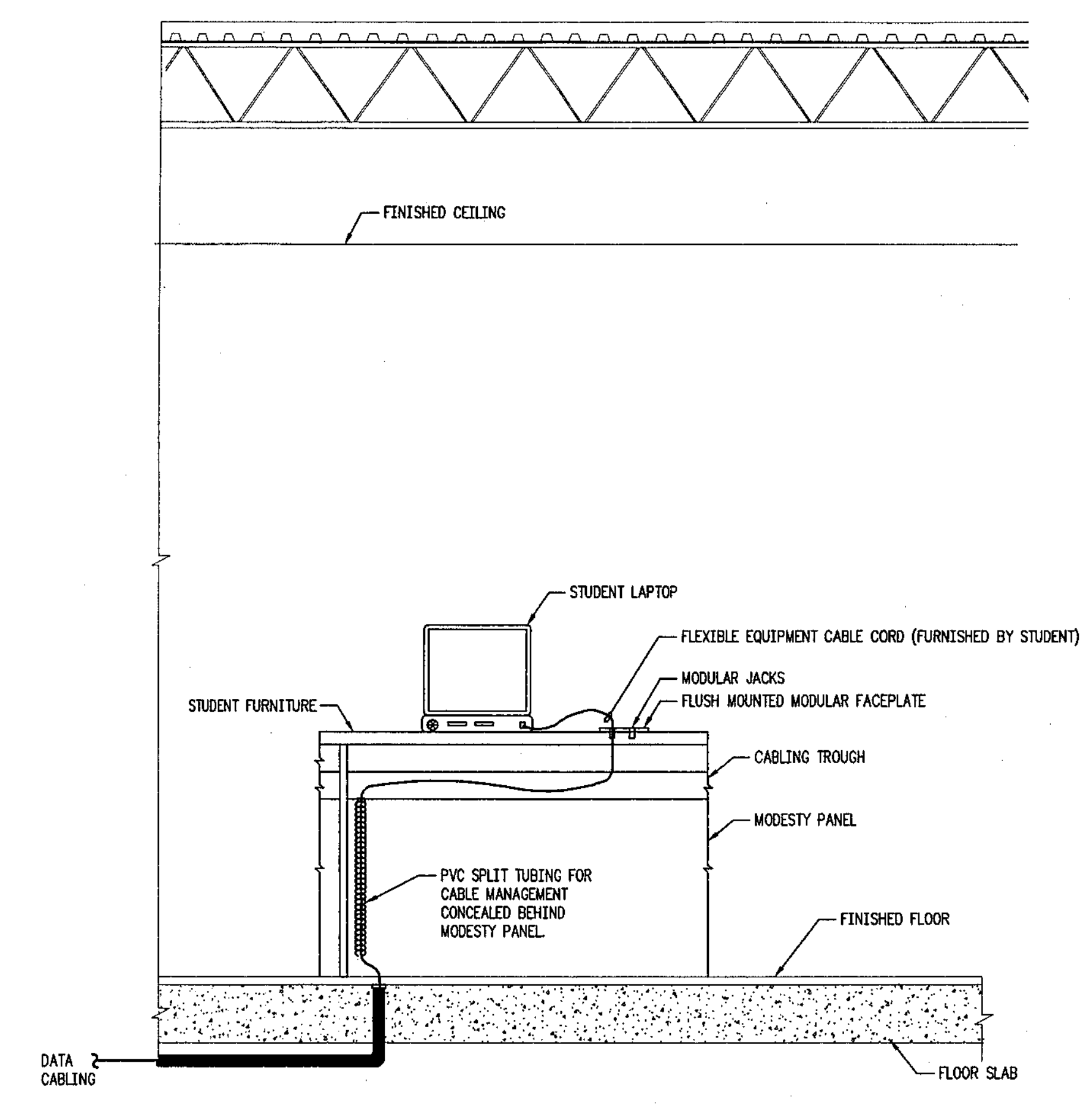
02 CONDUIT TO CABLE TRAY TRANSITION

03 VOICE/DATA CABLING FEED FOR CIRCULATION DESKS

SCALE NONE TYPICAL

SCALE NONE TYPICAL

SCALE NONE TYPICAL



04 MODULAR FURNITURE CONNECTION

05 VOICE/DATA POKE THRU

06 TYPICAL CONDUIT PENETRATION DETAIL

SCALE NONE TYPICAL

SCALE NONE TYPICAL

SCALE NONE

DETAILS - SYSTEMS  
 SCALE: NONE

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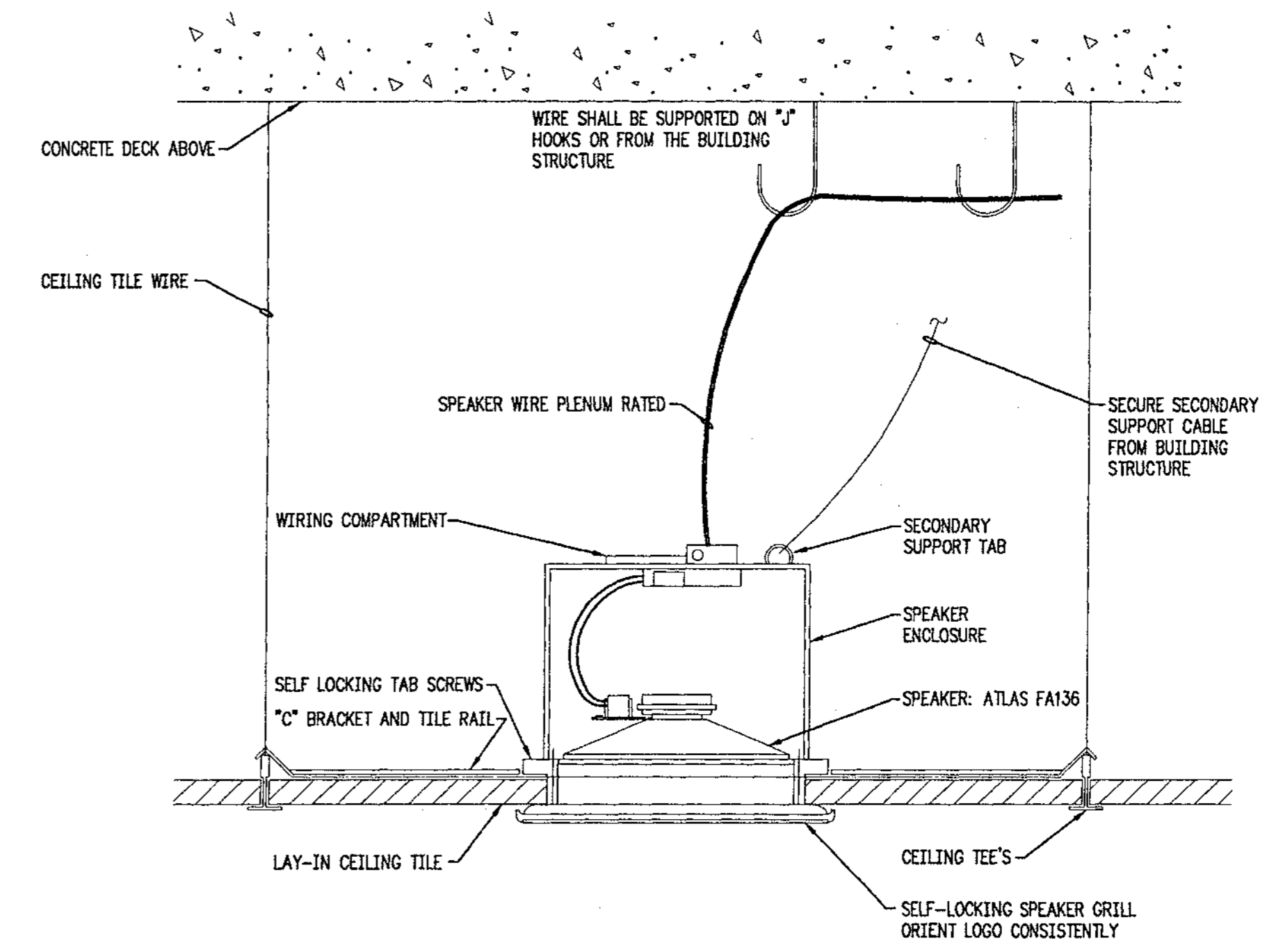
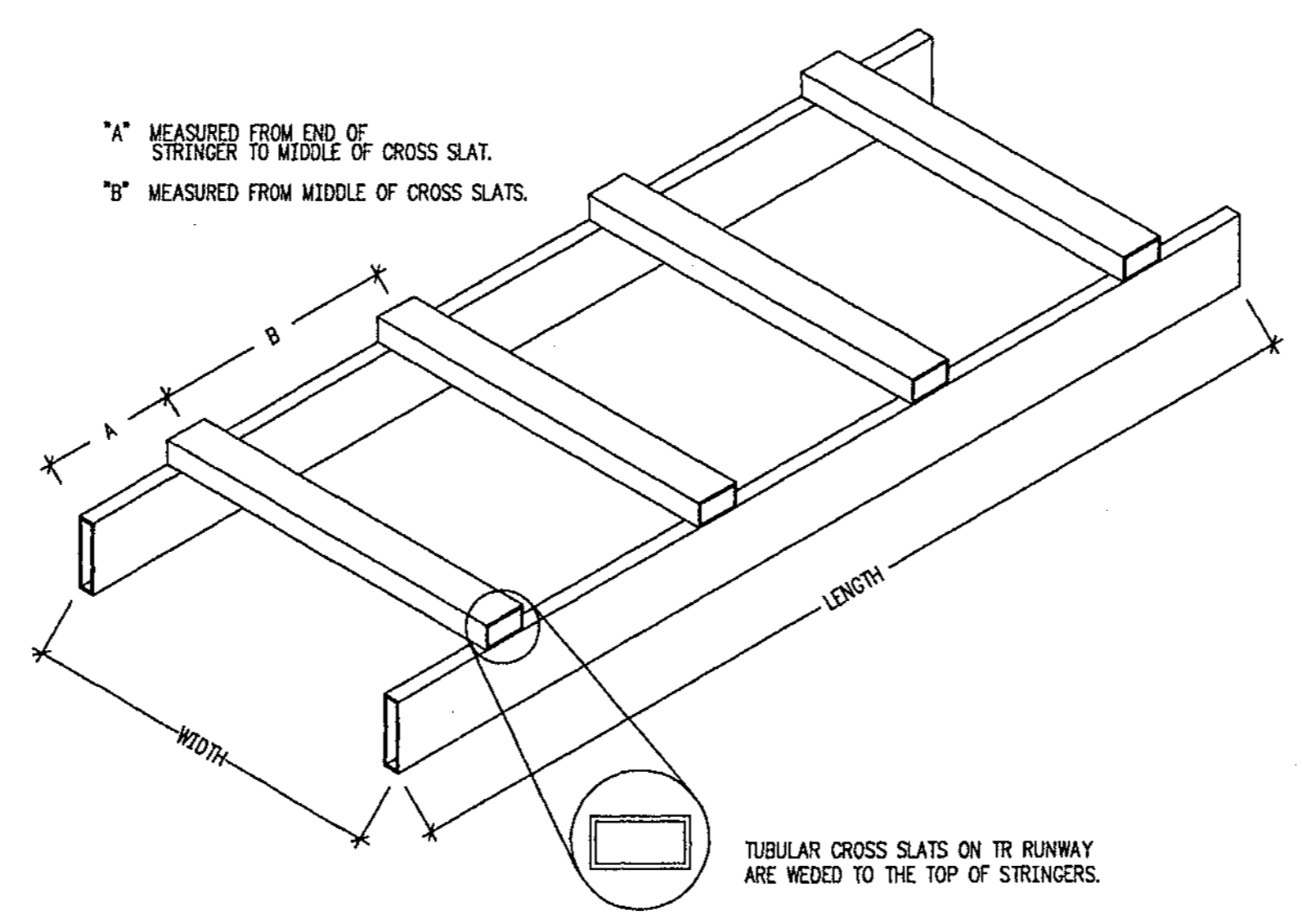
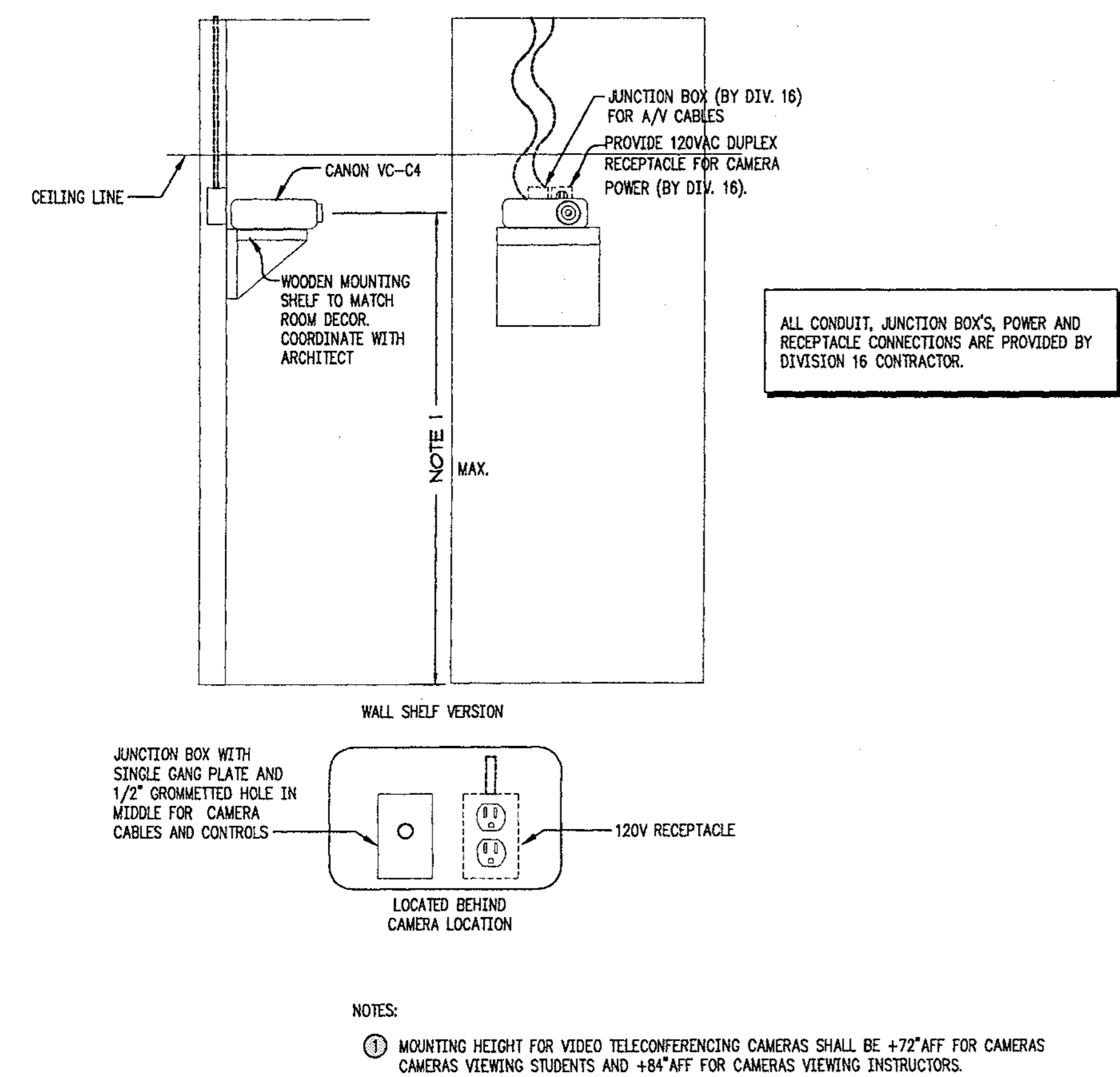
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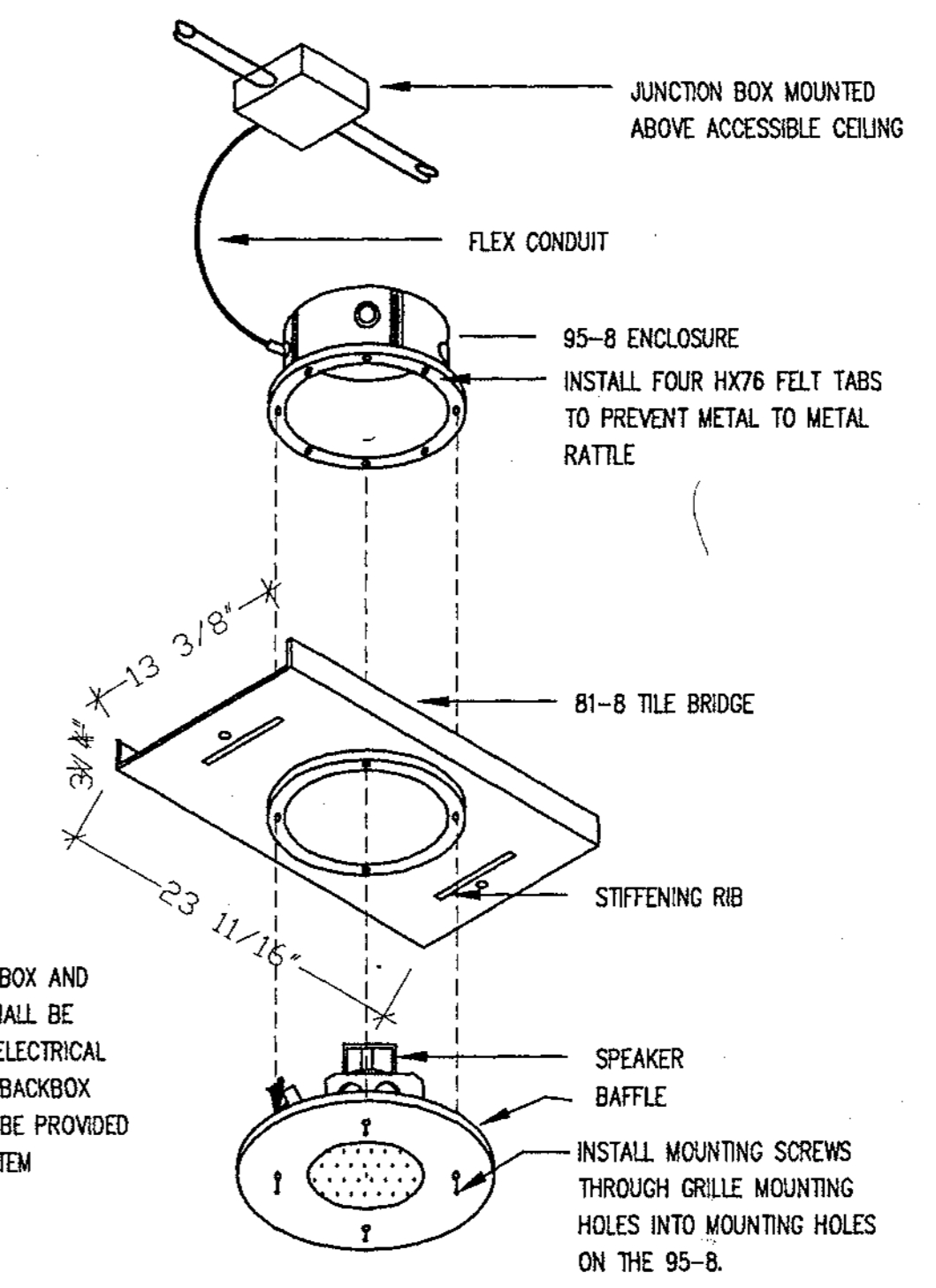
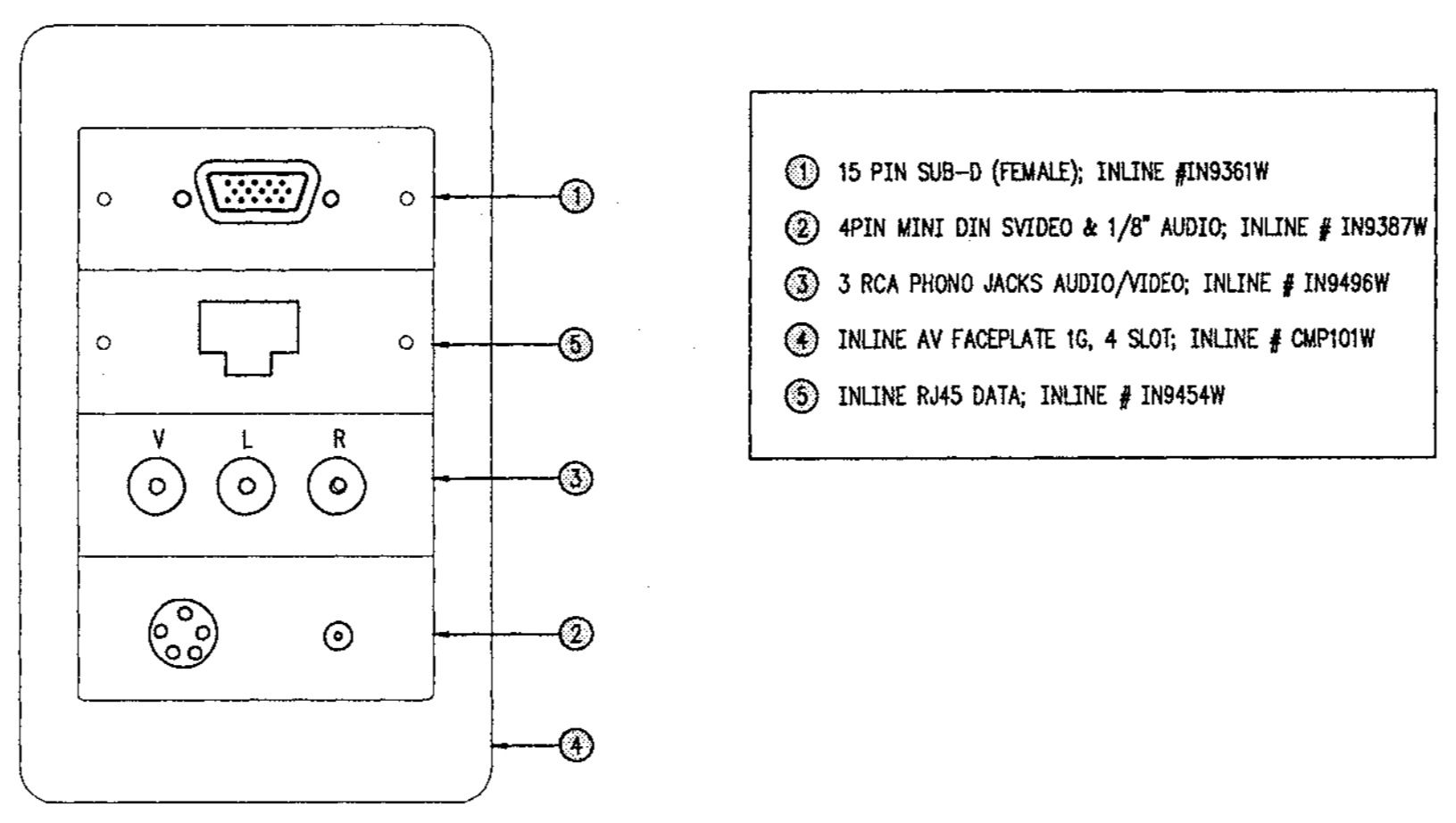
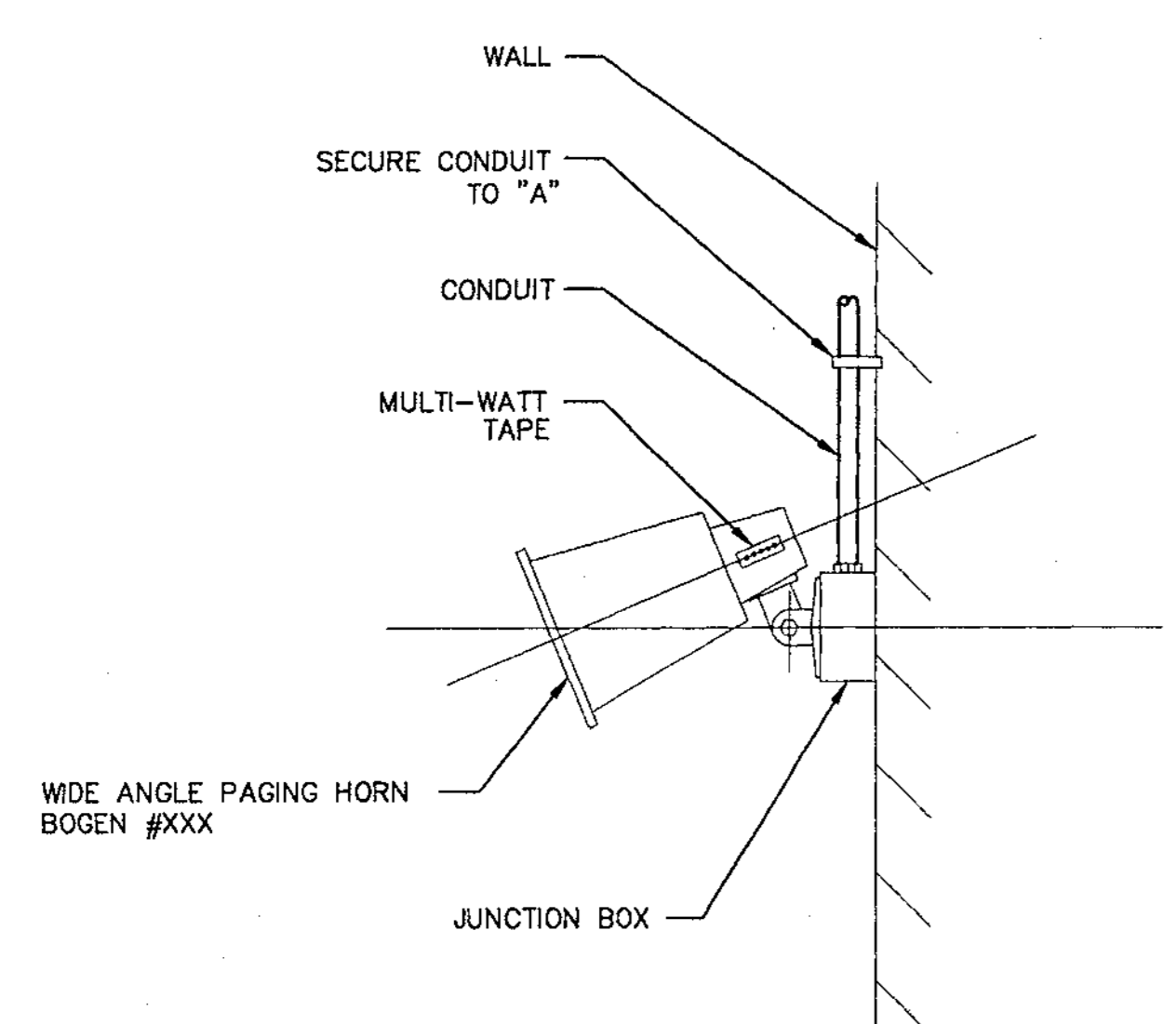
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01 CAMERA MOUNTING DETAIL

02 TYPICAL TELECOMMUNICATIONS CABLE RUNWAY

03 RECESSED SPEAKER MOUNTING DETAIL



04 TYPICAL OUTDOOR PAGING SPEAKER MOUNTING DETAIL

05 AUX I/O PLATE

06 TYPICAL LOUDSPEAKER MOUNTING DETAIL

DETAILS - SYSTEMS  
 SCALE: NONE

REFER TO RISER DIAGRAM FOR CONNECTIONS

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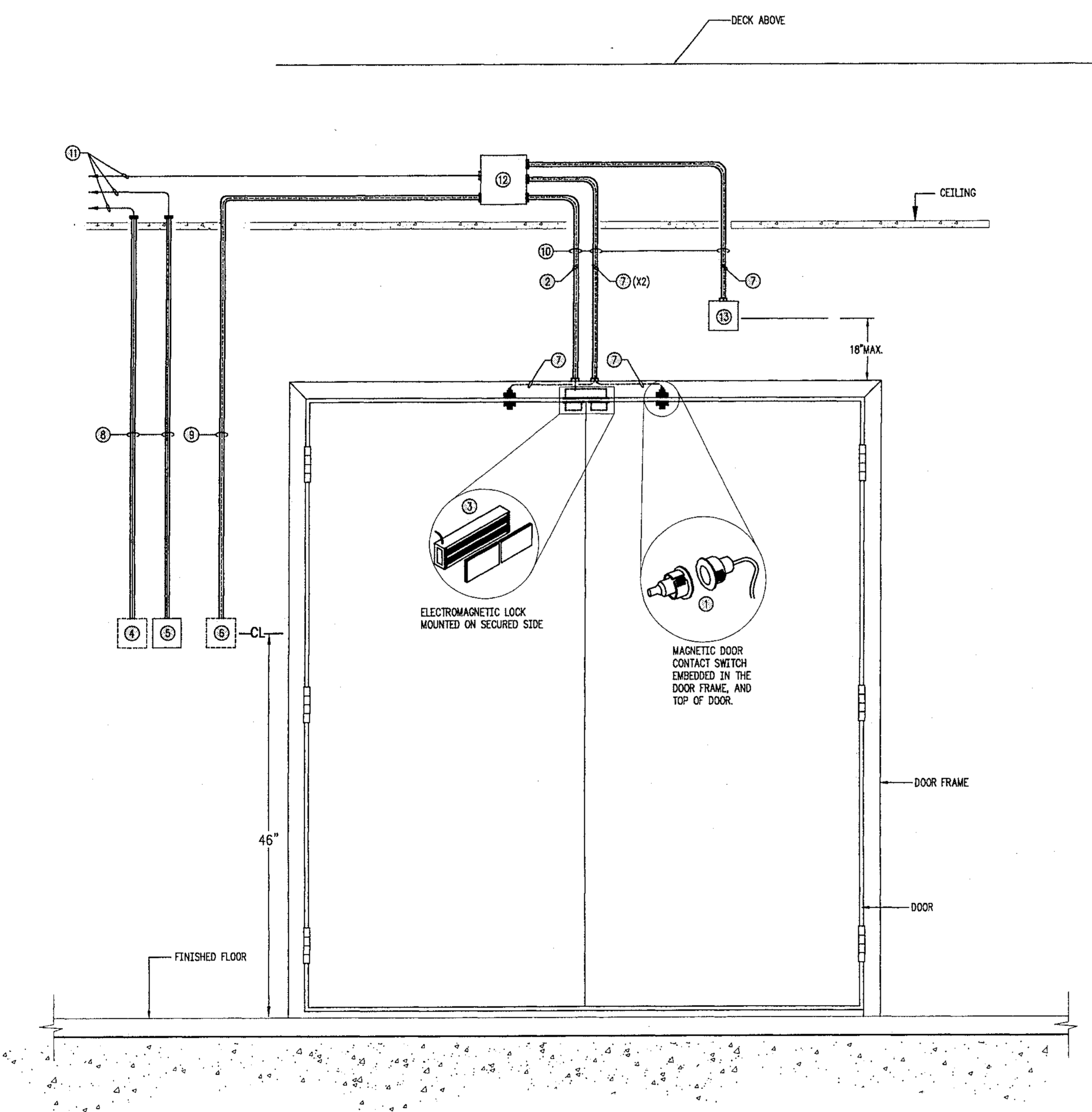


- GENERAL NOTES**
- REFER TO GENERAL NOTES ON SHEET T0.1.
  - SECURITY CONTRACTOR SHALL PROVIDE ALL WIRING SHOWN ON THIS SHEET.
  - VERIFY SECURITY DEVICE SELECTION WITH ARCHITECT DOOR HARDWARE PRIOR TO INSTALLATION.

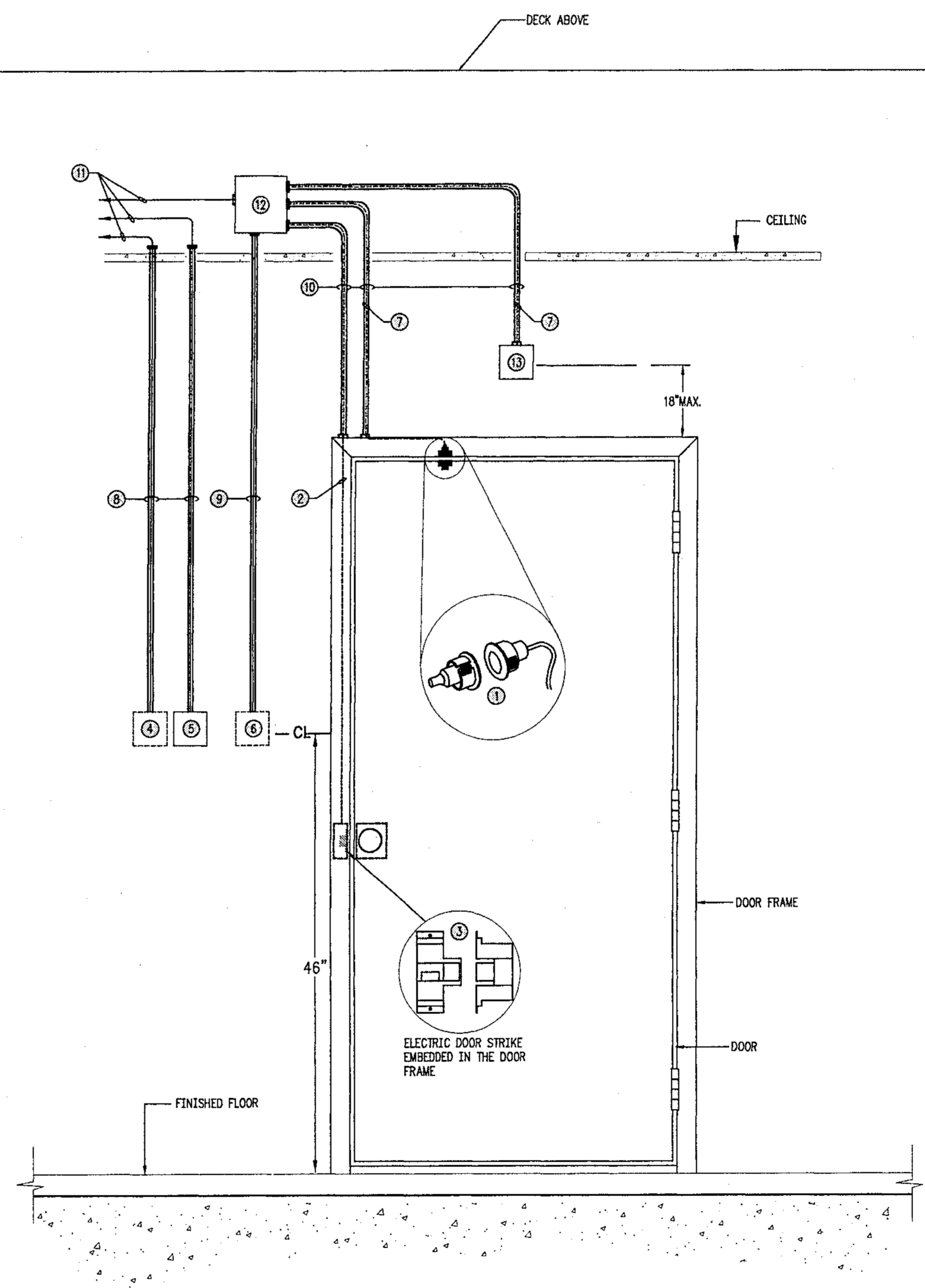
- PROVIDE MAGNETIC DOOR CONTACT SWITCHES EMBEDDED IN DOOR FRAME AND TOP OF DOOR.
- PROVIDE 2-CONDUCTOR #22 AWG WIRE FOR ELECTROMAGNETIC LOCKS.
- PROVIDE ELECTROMAGNETIC LOCKS.
- PROVIDE 4" SQUARE J-BOX. (FOR KEYPAD ON SECURE SIDE)
- PROVIDE 4" SQUARE J-BOX. (FOR CARD READER ON UNSECURE SIDE)
- PROVIDE 4" SQUARE J-BOX. (FOR CARD READER OR REQUEST TO EXIT BUTTON ON SECURE SIDE)
- PROVIDE 2-CONDUCTOR #22 AWG WIRE FROM DOOR DEVICES.
- PROVIDE 1" EMT CONDUITS CONCEALED IN THE WALL STUB INTO CEILING CAVITY AND TERMINATE WITH INSULATED BUSHING.
- PROVIDE 1" EMT CONDUIT CONCEALED IN WALL STUB INTO J-BOX.
- PROVIDE 1/2" EMT CONDUIT CONCEALED IN WALL STUB INTO J-BOX.
- PROVIDE 8-CONDUCTOR #24 AWG CABLES ROUTED TO ACCESS MODULES. REFER TO SECURITY RISER DIAGRAM ON SHEET T-6.5 FOR DETAILS.
- PROVIDE 6" X 6" J-BOX MOUNTED IN CEILING.
- PROVIDE 4" SQUARE J-BOX. (FOR REQUEST TO EXIT MOTION SENSOR. ON SECURE SIDE)

- GENERAL NOTES**
- REFER TO GENERAL NOTES ON SHEET T0.1.
  - SECURITY CONTRACTOR SHALL PROVIDE ALL WIRING SHOWN ON THIS SHEET.
  - VERIFY SECURITY DEVICE SELECTION WITH ARCHITECT DOOR HARDWARE PRIOR TO INSTALLATION.

- PROVIDE MAGNETIC DOOR CONTACT SWITCHES EMBEDDED IN DOOR FRAME AND TOP OF DOOR.
- PROVIDE 2-CONDUCTOR #22 AWG WIRE FOR ELECTRIC STRIKE.
- PROVIDE ELECTRIC STRIKE.
- PROVIDE 4" SQUARE J-BOX. (FOR KEYPAD ON SECURE SIDE)
- PROVIDE 4" SQUARE J-BOX. (FOR CARD READER ON UNSECURE SIDE)
- PROVIDE 4" SQUARE J-BOX. (FOR CARD READER OR REQUEST TO EXIT BUTTON ON SECURE SIDE)
- PROVIDE 2-CONDUCTOR #22 AWG WIRE FROM DOOR DEVICES.
- PROVIDE 1" EMT CONDUITS CONCEALED IN THE WALL STUB INTO CEILING CAVITY AND TERMINATE WITH INSULATED BUSHING.
- PROVIDE 1" EMT CONDUIT CONCEALED IN WALL STUB INTO J-BOX.
- PROVIDE 1/2" EMT CONDUIT CONCEALED IN WALL STUB INTO J-BOX.
- PROVIDE 8-CONDUCTOR #24 AWG CABLES ROUTED TO ACCESS MODULES. REFER TO SECURITY RISER DIAGRAM ON SHEET T-6.5 FOR DETAILS.
- PROVIDE 6" X 6" J-BOX MOUNTED IN CEILING.
- PROVIDE 4" SQUARE J-BOX. (FOR REQUEST TO EXIT MOTION SENSOR. ON SECURE SIDE)



NOTE: REFER TO FLOOR PLANS FOR SPECIFIC DEVICES REQUIRED AT EACH DOOR.



NOTE: REFER TO FLOOR PLANS FOR SPECIFIC DEVICES REQUIRED AT EACH DOOR.

<b>01</b>	<b>TYPICAL SECURITY EQUIPMENT - DOOR CONFIGURATION</b>
SCALE: NONE	<b>DOUBLE DOOR</b>
DETAILS - SYSTEMS	
SCALE: NONE	

<b>02</b>	<b>TYPICAL SECURITY EQUIPMENT - DOOR CONFIGURATION</b>
SCALE: NONE	<b>SINGLE DOOR</b>

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**T7.5**

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**GENERAL NOTES**

- REFER TO GENERAL NOTES ON SHEET T0.1.
- VERIFY SECURITY DEVICE SELECTION WITH ARCHITECT DOOR HARDWARE PRIOR TO INSTALLATION.

**PLAN NOTES**

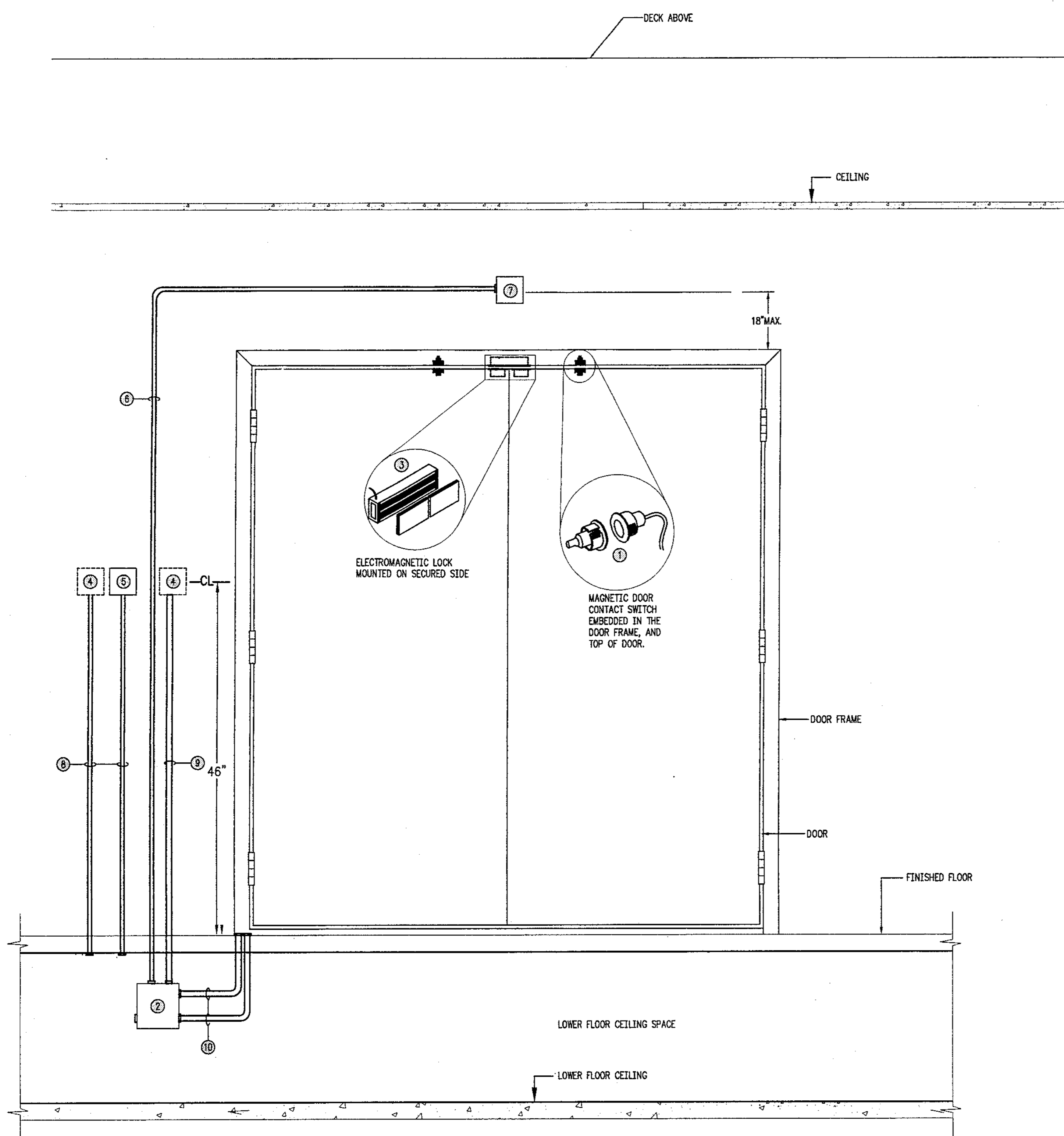
- PROVIDE MAGNETIC DOOR CONTACT SWITCHES EMBEDDED IN DOOR FRAME AND TOP OF DOOR.
- PROVIDE 6" X 6" J-BOX MOUNTED IN CEILING.
- PROVIDE ELECTROMAGNETIC LOCKS.
- PROVIDE 4" SQUARE J-BOX (FOR KEYPAD ON SECURE SIDE)
- PROVIDE 4" SQUARE J-BOX (FOR DEVICE ON UNSECURE SIDE)
- PROVIDE 1/2" EMT CONDUIT CONCEALED IN WALL STUB INTO J-BOX.
- PROVIDE 4" SQUARE J-BOX (FOR REQUEST TO EXIT MOTION SENSOR ON SECURE SIDE)
- PROVIDE 1" EMT CONDUITS CONCEALED IN THE WALL STUB INTO CEILING CAVITY AND TERMINATE WITH INSULATED BUSHING.
- PROVIDE 1" EMT CONDUIT CONCEALED IN WALL STUB INTO J-BOX.

**GENERAL NOTES**

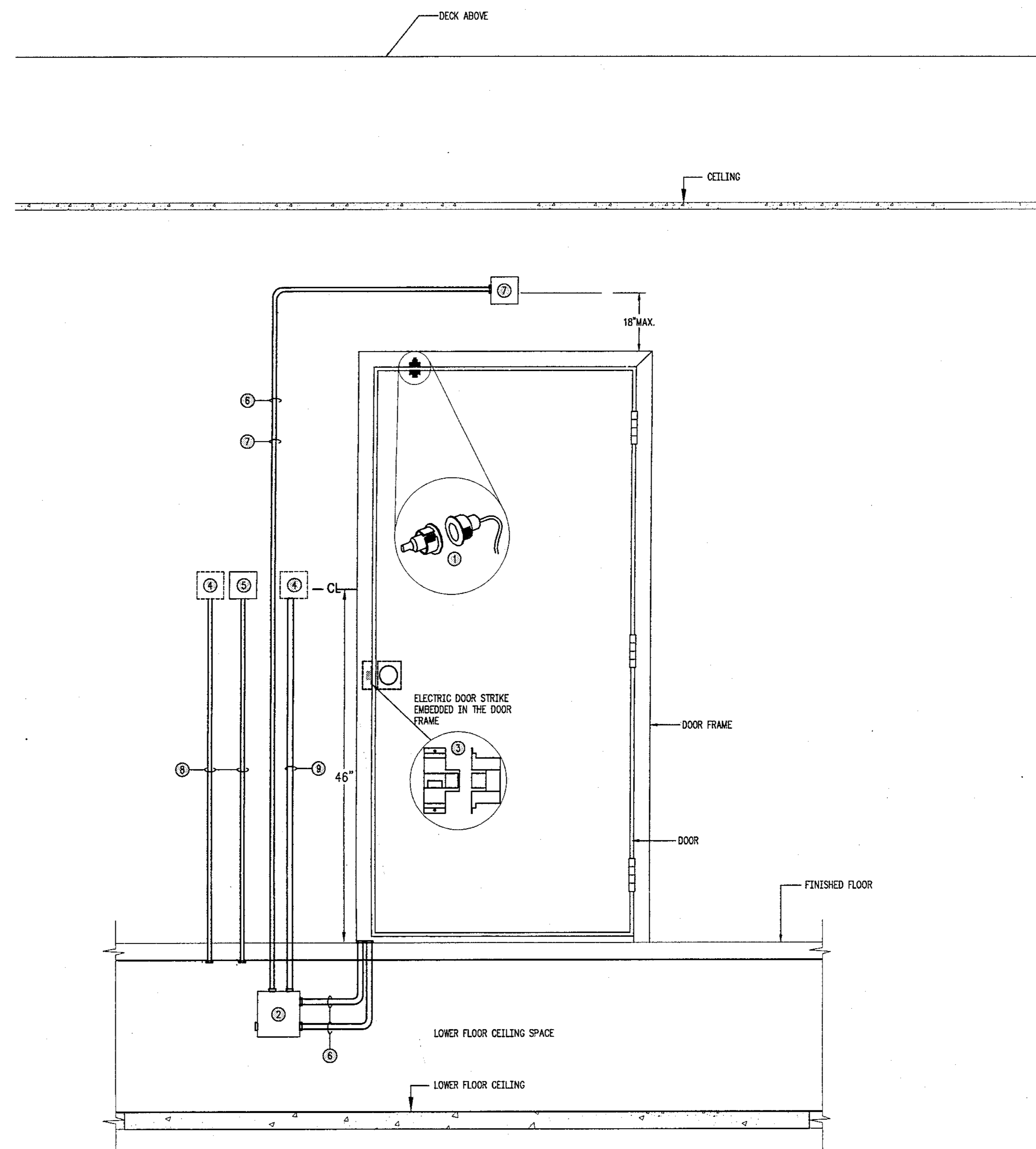
- REFER TO GENERAL NOTES ON SHEET T0.1.
- VERIFY SECURITY DEVICE SELECTION WITH ARCHITECT DOOR HARDWARE PRIOR TO INSTALLATION.

**PLAN NOTES**

- PROVIDE MAGNETIC DOOR CONTACT SWITCHES EMBEDDED IN DOOR FRAME AND TOP OF DOOR.
- PROVIDE 6" X 6" J-BOX MOUNTED IN CEILING.
- PROVIDE ELECTRIC STRIKE.
- PROVIDE 4" SQUARE J-BOX (FOR DEVICE ON SECURE SIDE)
- PROVIDE 4" SQUARE J-BOX (FOR DEVICE ON UNSECURE SIDE)
- PROVIDE 1/2" EMT CONDUIT CONCEALED IN WALL STUB INTO J-BOX.
- PROVIDE 4" SQUARE J-BOX (FOR REQUEST TO EXIT MOTION SENSOR ON SECURE SIDE)
- PROVIDE 1" EMT CONDUITS CONCEALED IN THE WALL STUB INTO CEILING CAVITY AND TERMINATE WITH INSULATED BUSHING.
- PROVIDE 1" EMT CONDUIT CONCEALED IN WALL STUB INTO J-BOX.



NOTE: REFER TO FLOOR PLANS FOR SPECIFIC DEVICES REQUIRED AT EACH DOOR.



NOTE: REFER TO FLOOR PLANS FOR SPECIFIC DEVICES REQUIRED AT EACH DOOR.

01 TYPICAL CONDUIT AND J-BOX REQUIREMENTS

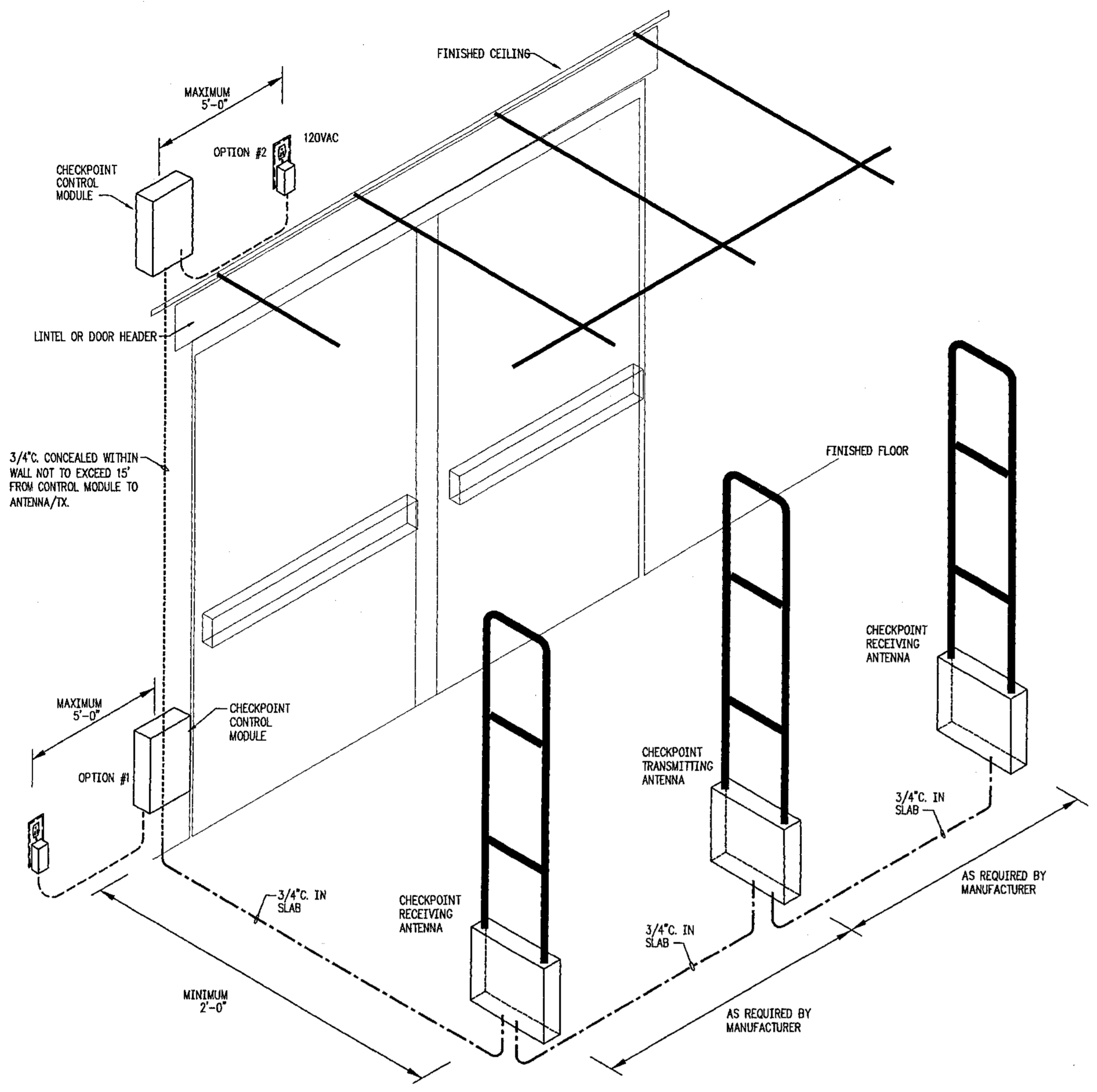
SCALE: NONE DOUBLE DOOR - LOWER FLOOR FEED

02 TYPICAL CONDUIT AND J-BOX REQUIREMENTS

SCALE: NONE SINGLE DOOR - BELOW FLOOR FEED

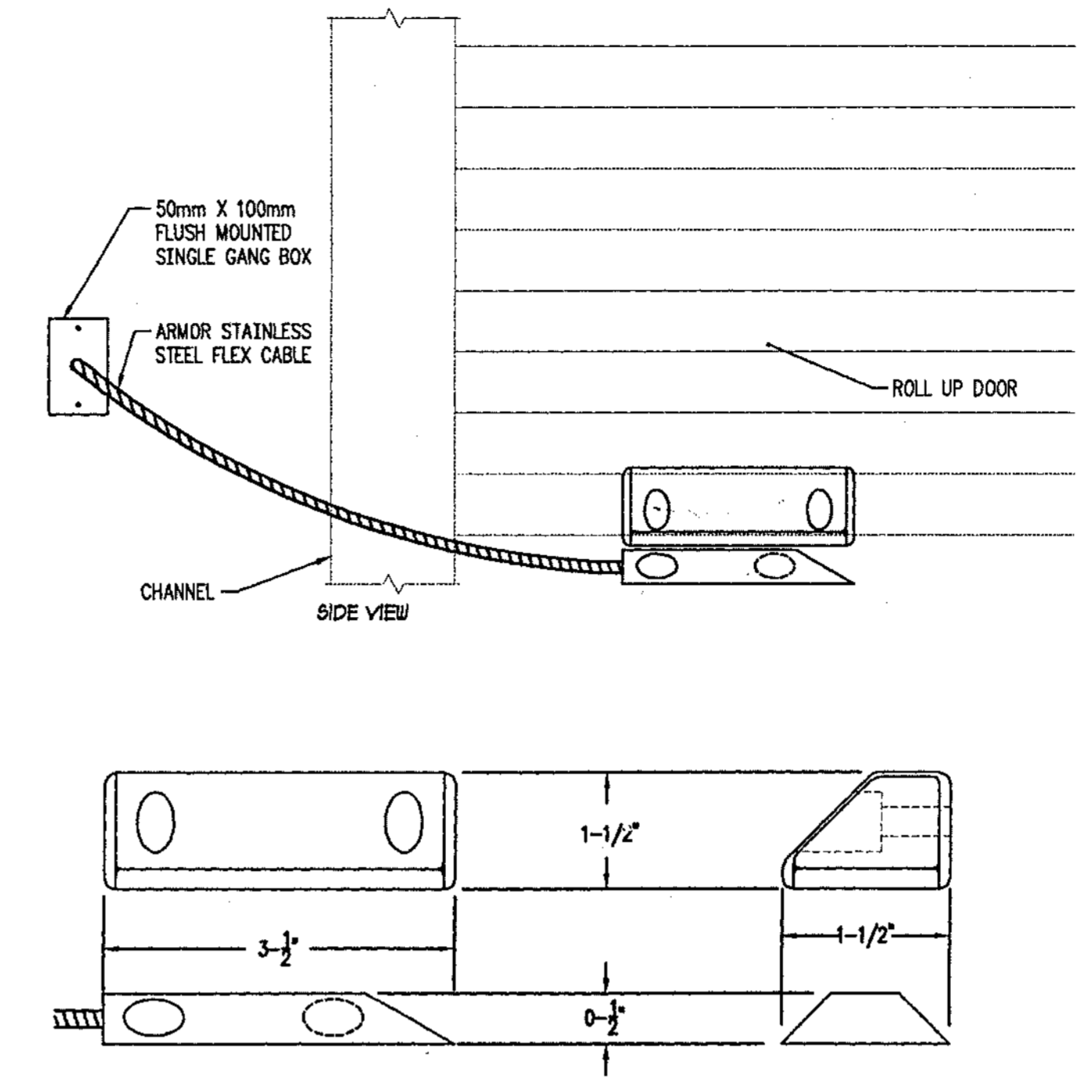
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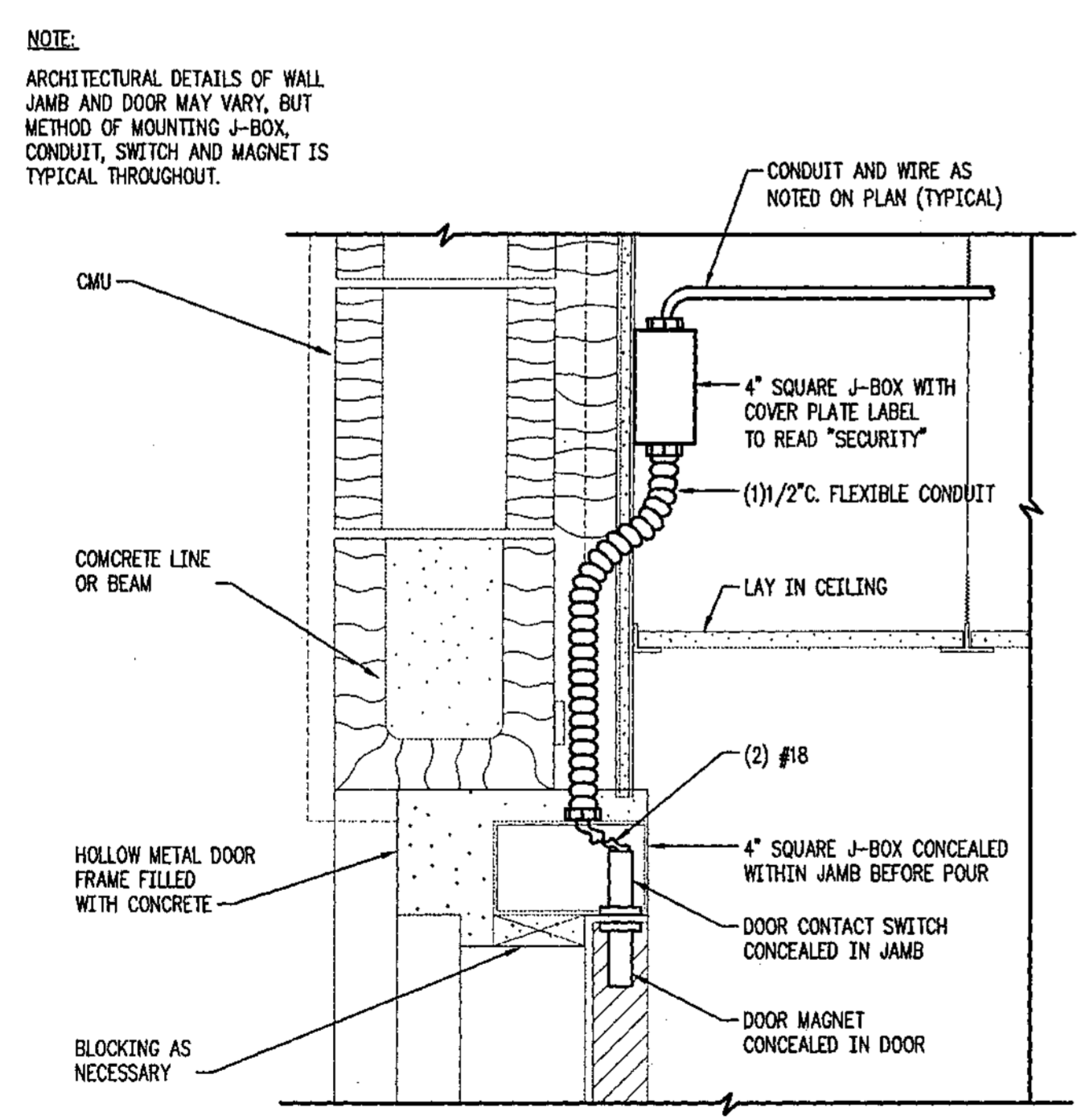
01 TYPICAL RF THEFT DETECTION DETAIL

SCALE: NONE



02 TYPICAL CURTAIN DOOR MAGNETIC FLOOR CONTACT

SCALE: NONE



03 TYPICAL MAGNETIC DOOR CONTACT SWITCH

SCALE: NONE

04 NOT USED

SCALE: NONE

DETAILS - SYSTEMS  
 SCALE: NONE

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**FIRE PROTECTION GENERAL NOTES**

1. FIRE PROTECTION SYSTEM TO COMPLY WITH NFPA 13 (1999) AND ALL APPLICABLE STATE CODES.
2. FINAL INSPECTION AND APPROVAL BY LOCAL FIRE MARSHAL AND ARCHITECT/ENGINEER.
3. SPRINKLER SHOP DRAWINGS AND MATERIAL SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER AND STATE FIRE MARSHAL AND SHALL BE APPROVED PRIOR TO ANY INSTALLATION.
4. PIPE ROUTING SHOWN SHALL BE SCHEMATIC ONLY. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE ANY ADDITIONAL OFFSETS REQUIRED FOR PROPER INSTALLATION AND COORDINATION WITH OTHER TRADES.
5. PIPING IN AREAS WITH EXPOSED STRUCTURE SHALL BE INSTALLED AS HIGH AS POSSIBLE TO ALLOW THE OWNER MAXIMUM USE OF THE SPACE.
6. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING DESCRIPTIONS AND HEIGHTS.
7. SPRINKLERS ARE TO BE COORDINATED WITH ALL DIFFUSERS, SPEAKERS, LIGHTING FIXTURES AND CEILING SYSTEMS. SPACING OF SPRINKLERS SHALL BE IN ACCORDANCE WITH NFPA 13 (1999) AND THE LISTING OF THE SPRINKLER.
8. SPRINKLERS LOCATIONS SHALL BE CENTERED IN THE TILE AS INDICATED ON THE DRAWINGS. PROVIDE ARMORS OR SWING JOINT AS REQUIRED.
9. SPRINKLERS IN AREAS WITH EXPOSED STRUCTURE (OBSTRUCTED CONSTRUCTION) SHALL BE INSTALLED WITH DEFLECTOR 1" BELOW THE BOTTOM OF THE BEAM (MAX 22" BELOW ROOF DECK). EXPOSED BAR JOISTS THAT HAVE SPRAY ON FIRE PROOFING THAT MAKES THE JOIST SOLID SHALL BE TREATED LIKE A BEAM WITH THE SPRINKLERS 1" BELOW THE BOTTOM OF THE FIRE PROOFING.
10. FIRE STOP ALL PENETRATIONS OF SMOKE/FIRE WALLS, CEILING, FLOORS, ROOFS, ETC. FLASH AND COUNTERFLASH ROOF PENETRATIONS. (SEE FIRE RATED PIPE PENETRATION DETAIL).
11. PROVIDE ACCESS PANELS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILING AND CHASES.
12. PROVIDE A PERMANENTLY ATTACHED NAME TAG ATTACHED TO THE RISER STATING THE REQUIRED DESIGN CRITERIA FOR EACH HYDRAULICALLY DESIGNED SYSTEM.
13. PROVIDE SPRINKLERS UNDER ALL EXPOSED DUCTWORK OVER 48" WIDE AND SPACE HEADS AROUND ALL OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13. HEADS UNDER DUCTS ARE NOT INDICATED ON THE DRAWINGS BUT ARE REQUIRED AND SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13 (1999). SPRINKLER LOCATIONS UNDER DUCTWORK AND AROUND OBSTRUCTIONS SHALL BE COVERED BY FINAL INSTALLED LOCATIONS.
14. PROVIDE SPRINKLERS AT THE TOP AND BOTTOM OF ALL STAIRWELLS AND AT THE LANDING OF EACH FLOOR THAT OPENS INTO MORE THAN ONE FIRE ZONE.
15. PROVIDE SPRINKLER GUARD ON ALL HEADS IN ELECTRIC ROOMS, TELEPHONE ROOMS, ELEVATOR ROOMS, ELEVATOR SHAFTS AND ON ANY HEADS LESS THAN 7'-0" ABOVE THE FLOOR.
16. IF SYSTEM PRESSURE EXCEEDS 100 PSI. ALL HANGERS ON END HEADS IN PENDANT POSITION SHALL BE WITHIN 12" OF END OF LINE IN ACCORDANCE WITH NFPA 13 (1999).
17. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER ELECTRICAL SHALL BE ROUTED AT NO ADDITIONAL COST.
18. PROVIDE 20 GAUGE STEEL SPRINKLER CANOPY SHIELD AT SPRINKLERS IN TRASH CHUTE PER NFPA #13 (1999).
19. SPRINKLERS IN ELEVATOR SHAFTS AND EQUIPMENT ROOMS SHALL BE 288F SPRINKLER.
20. WET BULK SUPPLY MAINS AND HOSE SUPPLY MAINS EXPOSED TO THE WEATHER SHALL BE INSULATED AND PROVIDED WITH AN ALUMINUM JACKET.

**FIRE PROTECTION LEGEND**

- CONTROL VALVE W/TAMPER SWITCH
- CHECK VALVE
- FLOW SWITCH
- FIRE DEPARTMENT CONNECTION
- STANDPIPE WITH FIRE DEPARTMENT VALVE
- BACKFLOW PREVENTER
- HYDRAULIC REFERENCE NODE
- NEW SPRINKLER PIPING
- FLUSHING CONNECTION
- DRAWING NOTE

**FIRE PROTECTION DRAWING INDEX**

SHEET	DESCRIPTION	ISSUED
FO.1	FIRE PROTECTION GENERAL NOTES, LEGEND & SITE PLAN	Yes
FO.2	FIRE PROTECTION DETAILS	Yes
F1.1	GROUND FLOOR PLAN - FIRE PROTECTION	Yes
F1.2	SECOND FLOOR PLAN - FIRE PROTECTION	Yes
F1.3	THIRD FLOOR PLAN - FIRE PROTECTION	Yes
F1.4	FOURTH FLOOR PLAN - FIRE PROTECTION	Yes
F1.5	PENTHOUSE FLOOR PLAN - FIRE PROTECTION	Yes
F2.1	FIRE PROTECTION - ENLARGED FIRE PUMP ROOM PLAN	Yes

**WATER FLOW TEST DATA**

STATIC	- 64	DATE	- 10/12/01
RESIDUAL	- 62	TIME	- N/A
FLOW	- 860		

LOCATION: DREW & OSCEOLA  
AT HYDRANTS 3 & 9  
BY: CITY OF CLEARWATER

DEC. 13, 2002 14:28 8136370013 100 ENGINEERING #8576 2.027.015

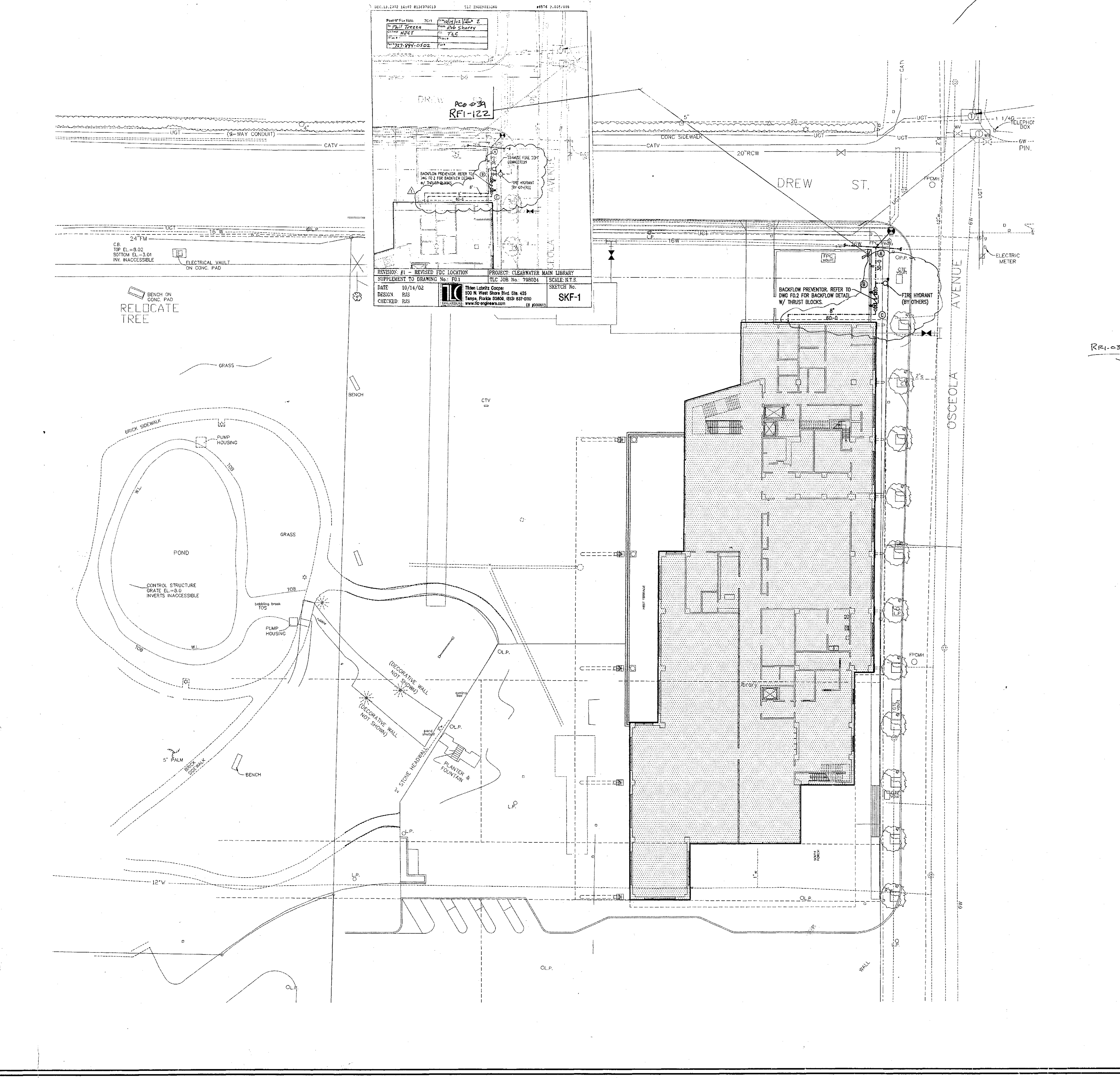
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TLC JOB No. 798034  
DATE: 10/14/02  
DESIGN: RJS  
CHECKED: RJS

SKF-1

REVISION: #1 - REVISED FDC LOCATION  
SUPPLEMENT TO DRAWING No. F0.1

DATE: 10/14/02  
DESIGN: RJS  
CHECKED: RJS

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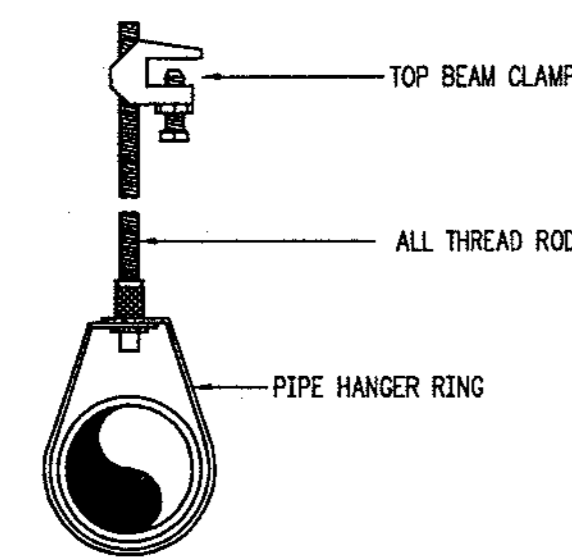
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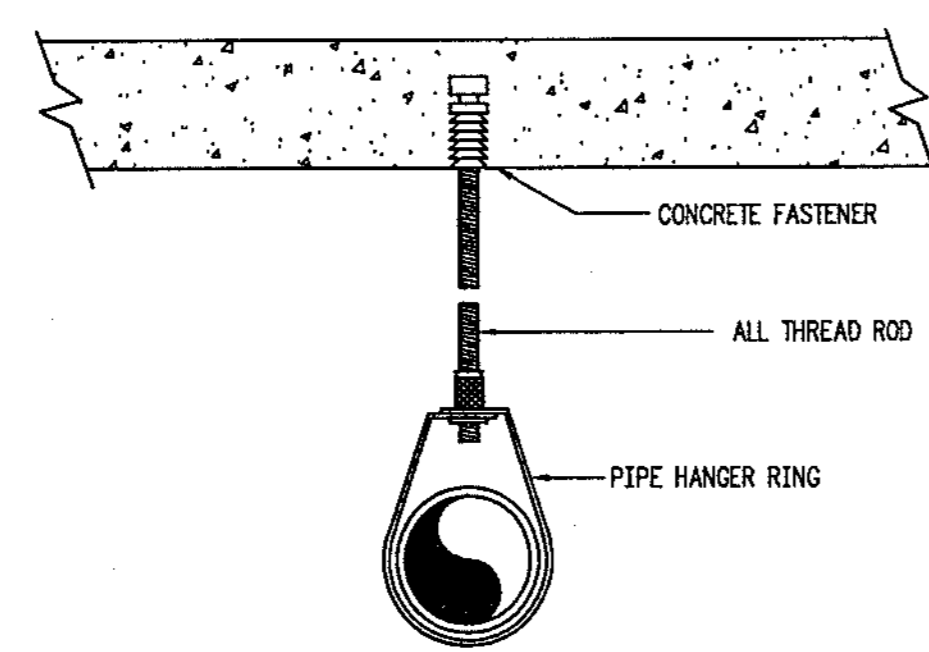
**FO.1**

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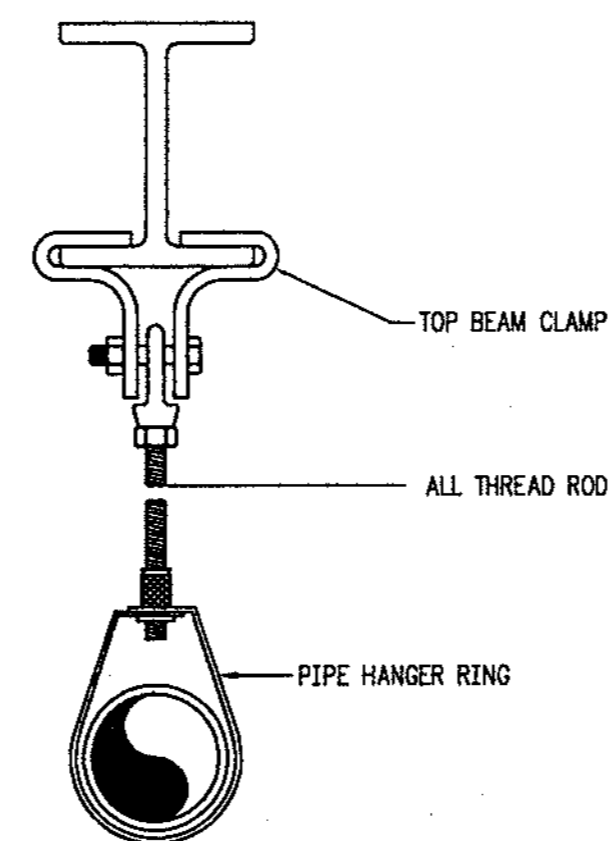




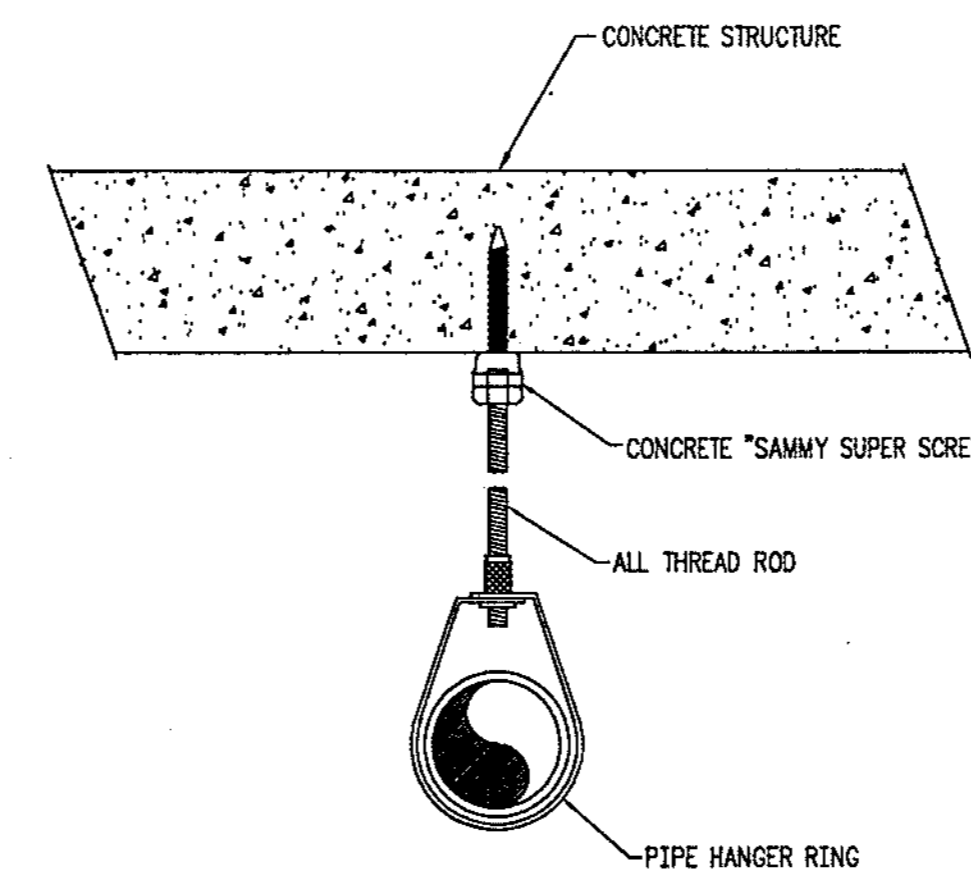
**TOP BEAM CLAMP DETAIL**  
 (U.L. LISTED OR F.M. APPROVED) N.T.S.



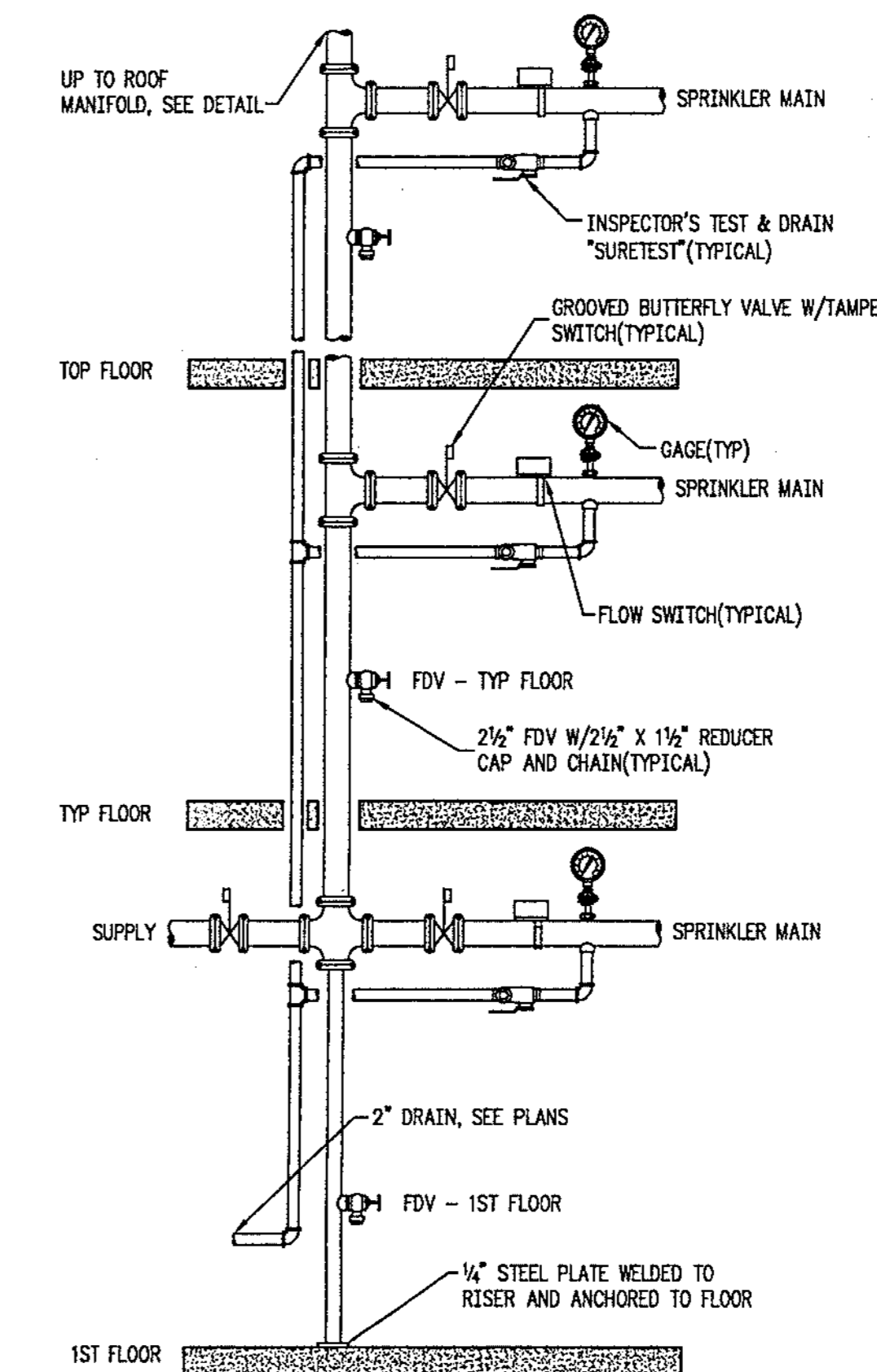
**CONCRETE INSERT DETAIL**  
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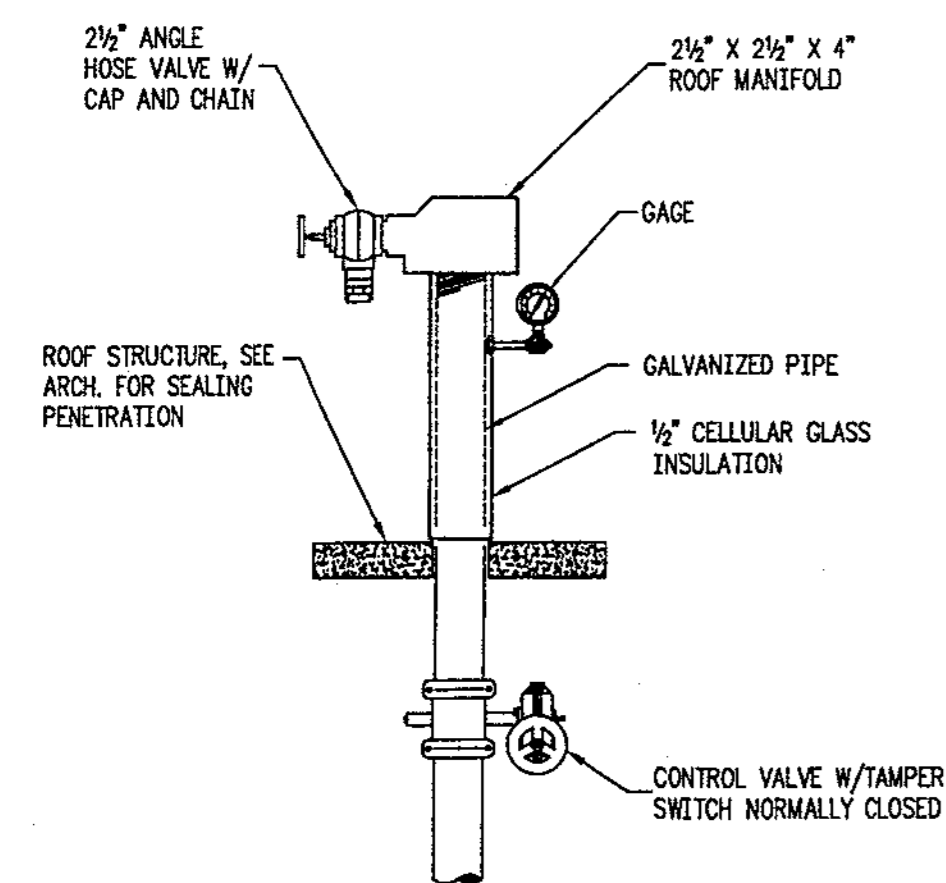
**CENTER BEAM CLAMP DETAIL**  
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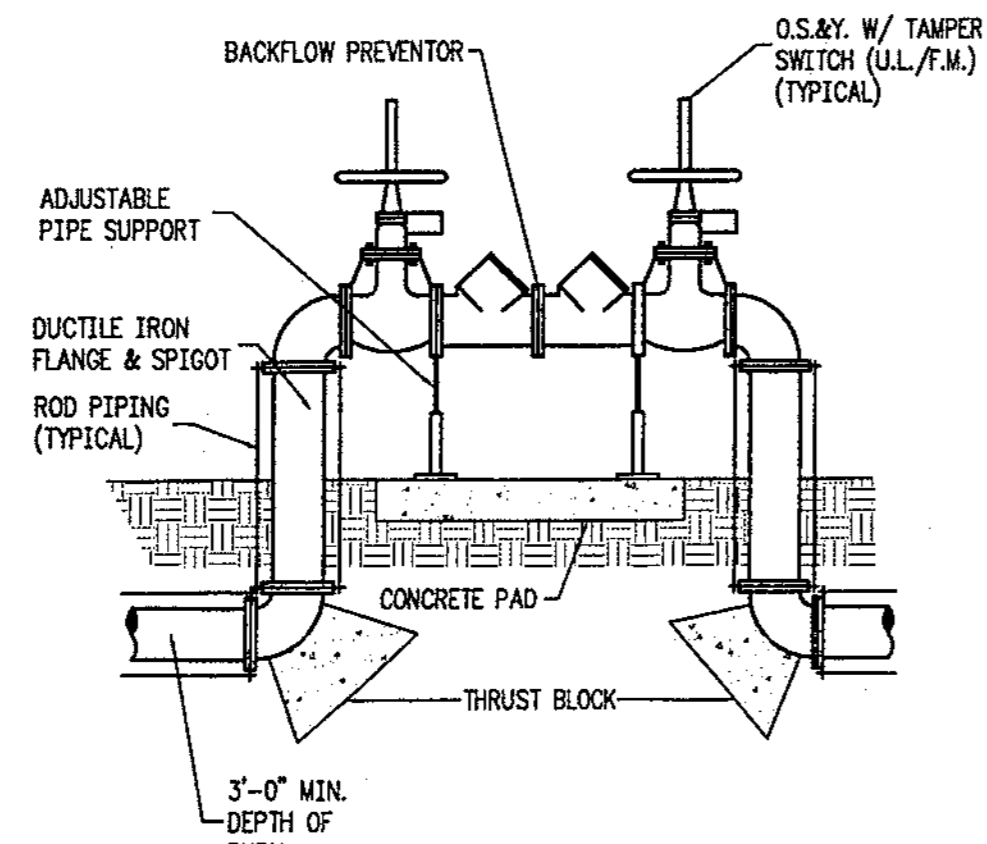
**CONCRETE INSERT DETAIL**  
 (U.L. LISTED OR F.M. APPROVED) N.T.S.



**SPRINKLER/STANDPIPE DETAIL**  
 N.T.S.



**ROOF MANIFOLD DETAIL**  
 N.T.S.



**BACKFLOW PREVENTOR DETAIL**  
 N.T.S.

TABLE A-1  
 AREA OF BEARING FACE OF CONCRETE THRUST BLOCKS

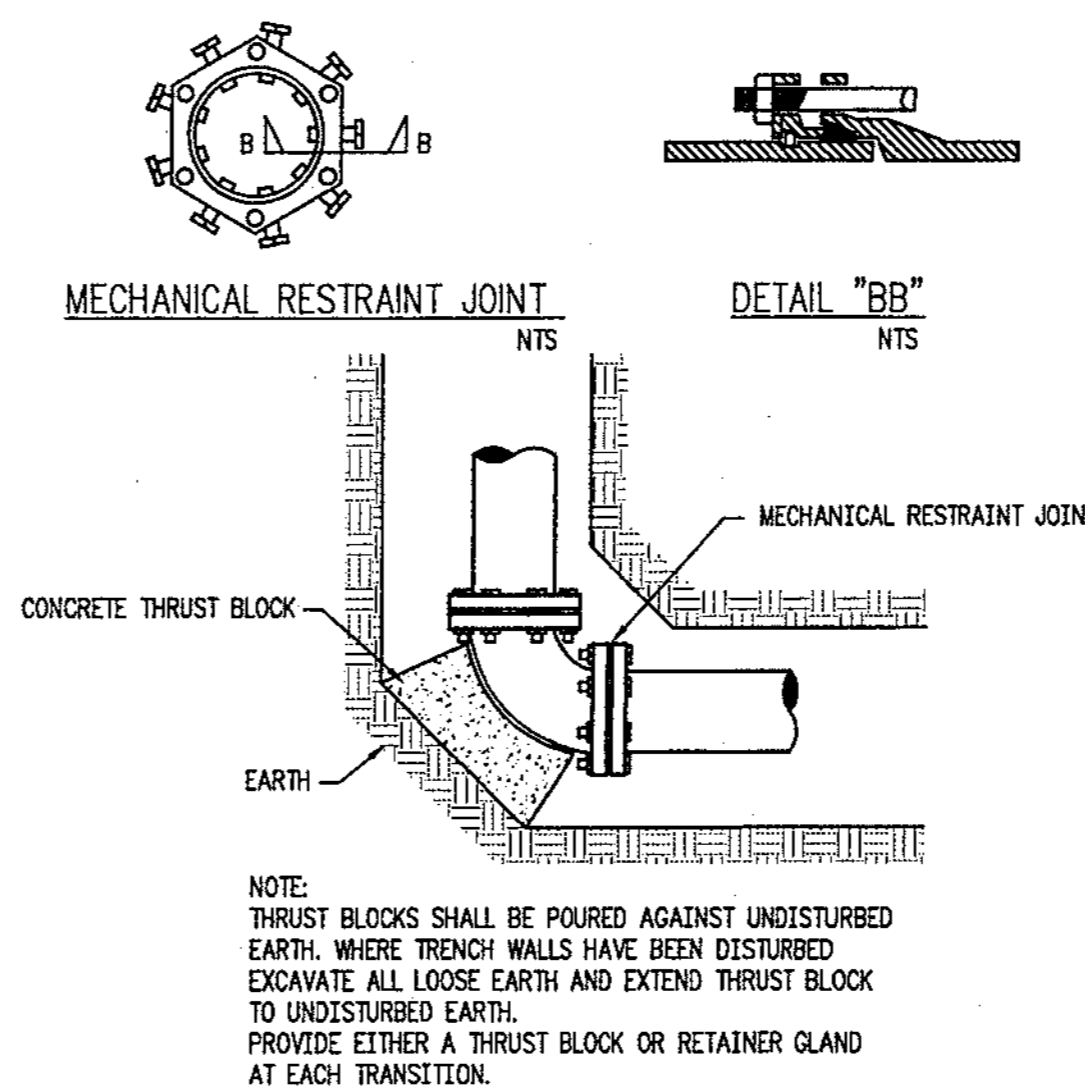
PIPE SIZE IN.	1/4 BEND		1/2 BEND		TEES, PLUGS, CAPS AND TRISOMBS	
	sq. ft.	sq. in.	sq. ft.	sq. in.	sq. ft.	sq. in.
4	2	0.19	2	0.19	2	0.19
6	5	0.46	3	0.28	4	0.37
8	8	0.74	5	0.46	6	0.56
10	13	1.21	7	0.85	9	0.84
12	18	1.67	10	0.93	13	1.21
14	25	2.32	14	1.30	18	1.67
16	32	2.97	18	1.67	23	2.14

AREAS IN TABLE HAVE BEEN DERIVED USING A WATER PRESSURE OF 225 POUNDS PER SQUARE INCH (1.5 BARS) AND A SOIL RESISTANCE OF 2000 POUNDS PER SQUARE FOOT (1.0 BARS).

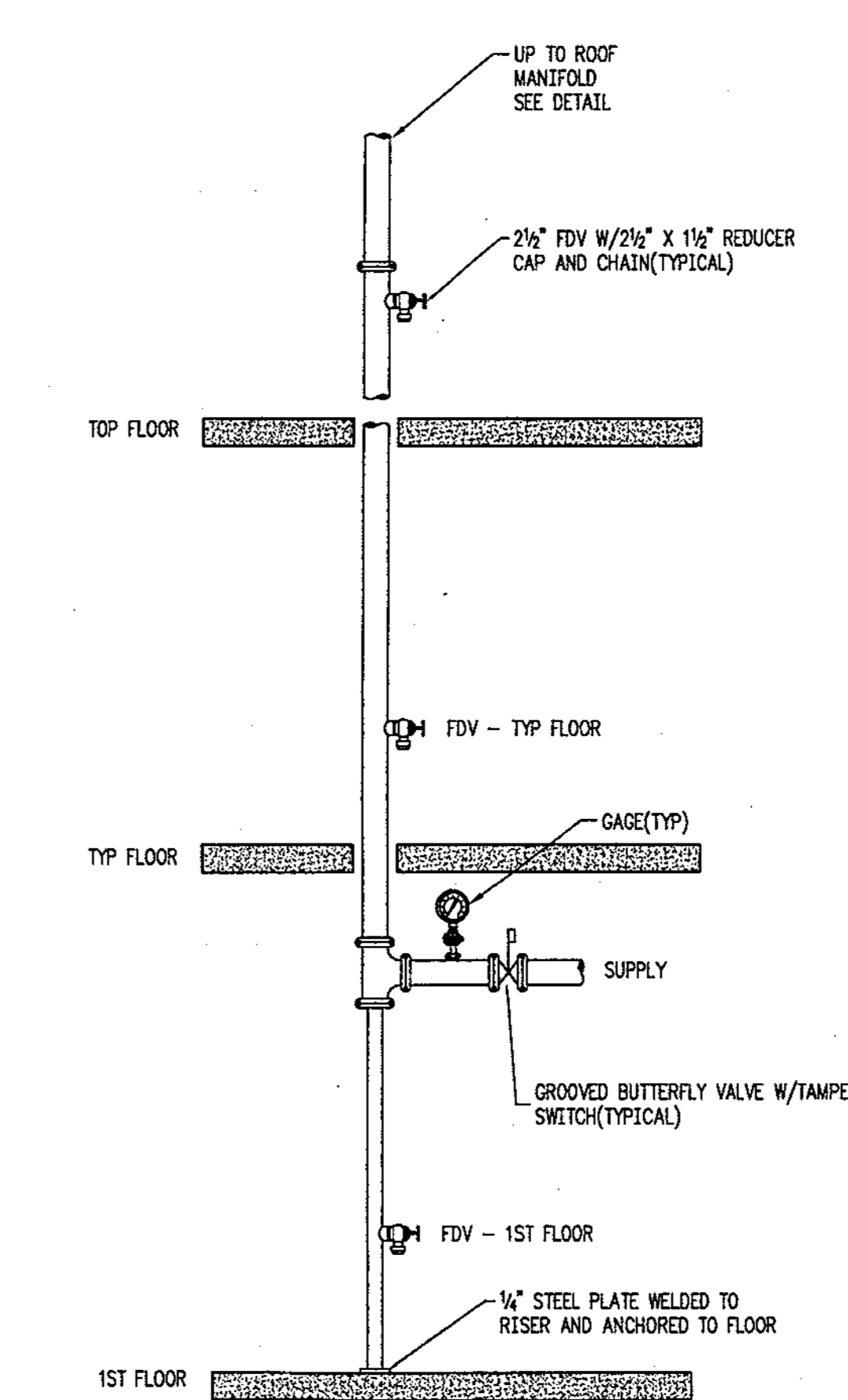
TABLE A-2  
 THRUST AT FITTINGS OF 225 PSI WATER PRESSURE

NOM. PIPE DIA. IN.	90 DEGREE BEND		22 1/4 DEGREE BEND		11 1/4 DEGREE BEND	
	sq. ft.	sq. in.	sq. ft.	sq. in.	sq. ft.	sq. in.
4	4022.50	5753.75	3183.25	4568.50	798.75	1118.25
6	8412.75	11988.00	6438.50	9013.75	1649.25	2329.25
8	14473.25	20468.25	11076.75	15473.50	2837.25	3972.25
10	21773.25	30791.25	16663.50	23309.00	4268.25	5976.25
12	30791.25	43544.25	23364.50	32755.00	6038.75	8454.25
14	41368.25	58202.25	31652.00	44343.00	8109.00	11352.00
16	53622.75	74633.00	40941.75	57375.00	10467.25	14657.25

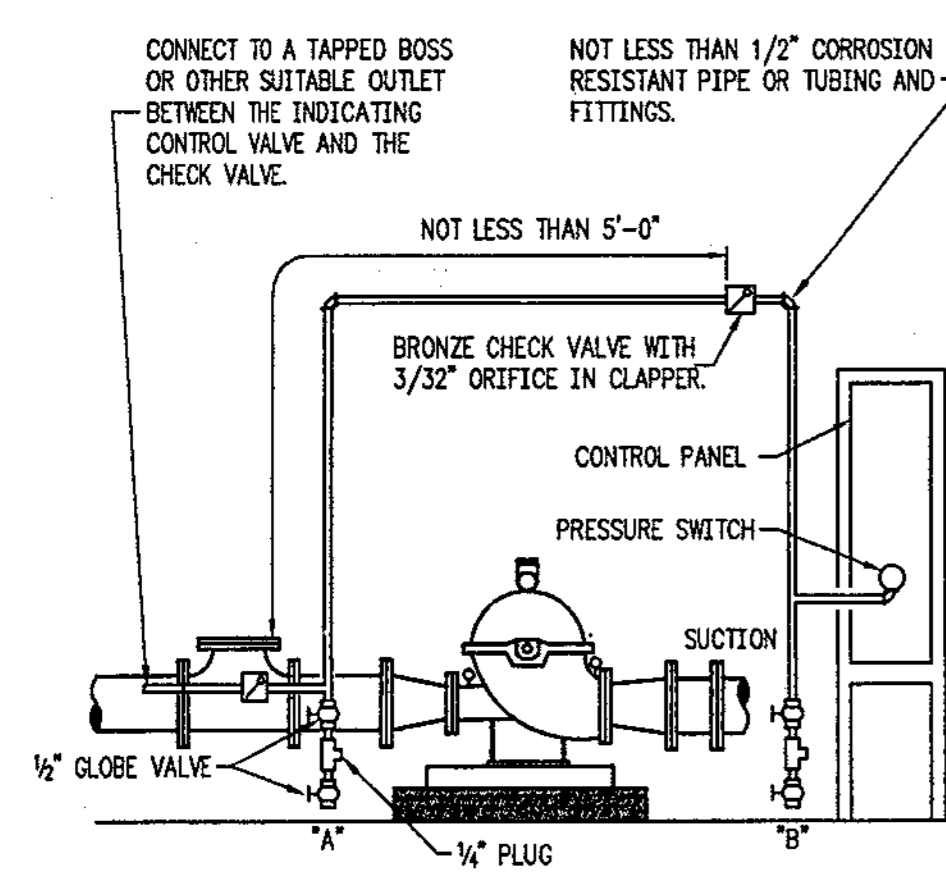
**THRUST BLOCK TABLES**  
 N.T.S.



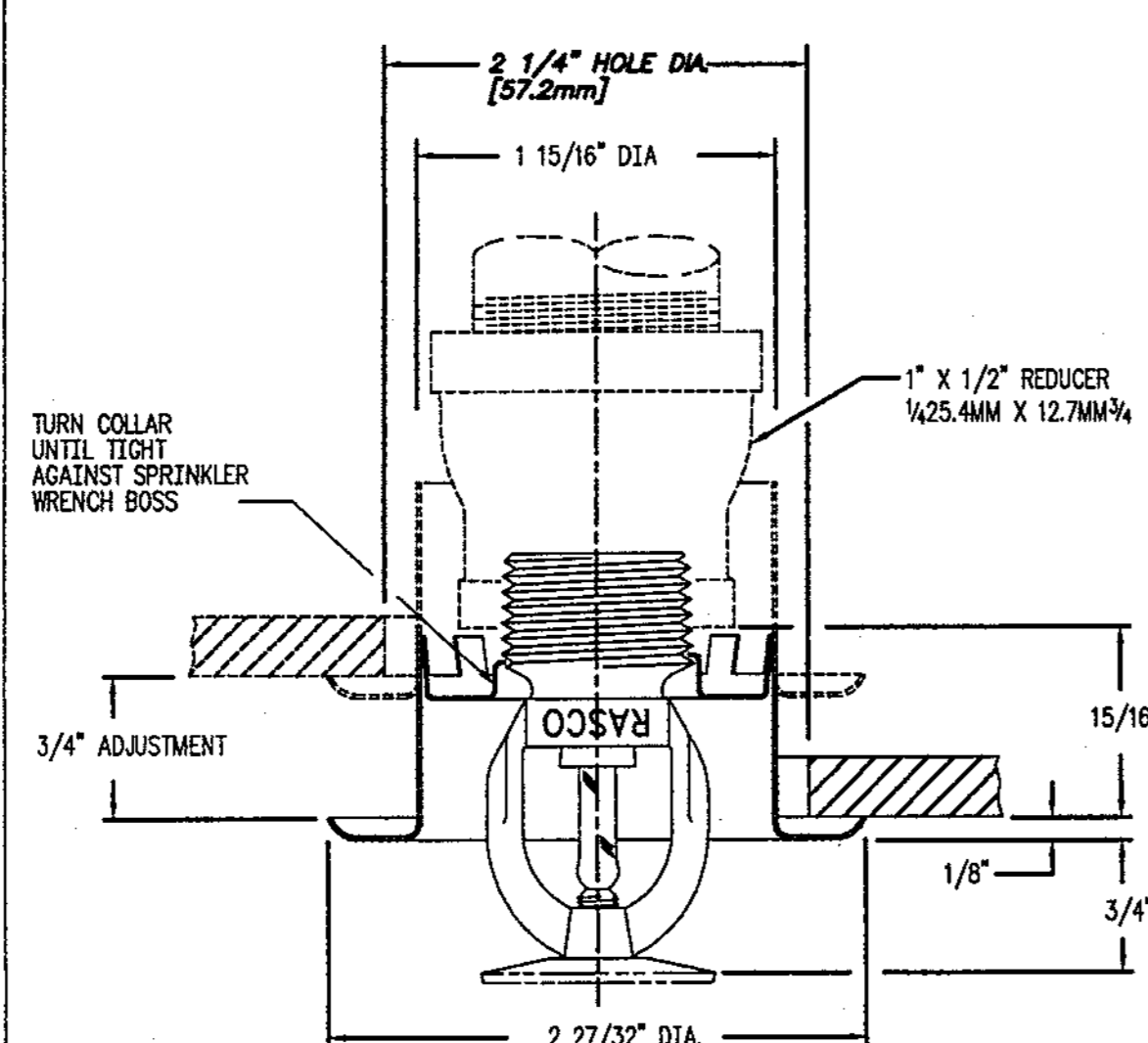
**THRUST BLOCK DETAIL**  
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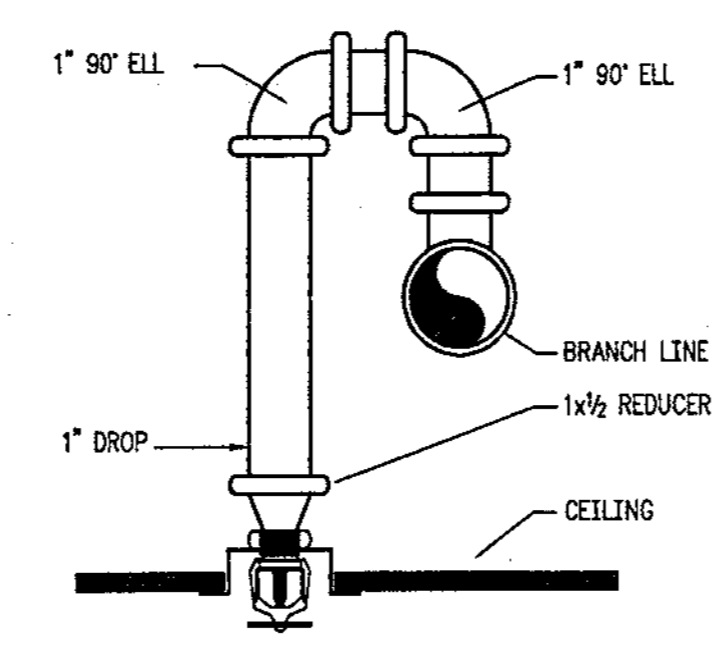
**STANDPIPE DETAIL**  
 N.T.S.



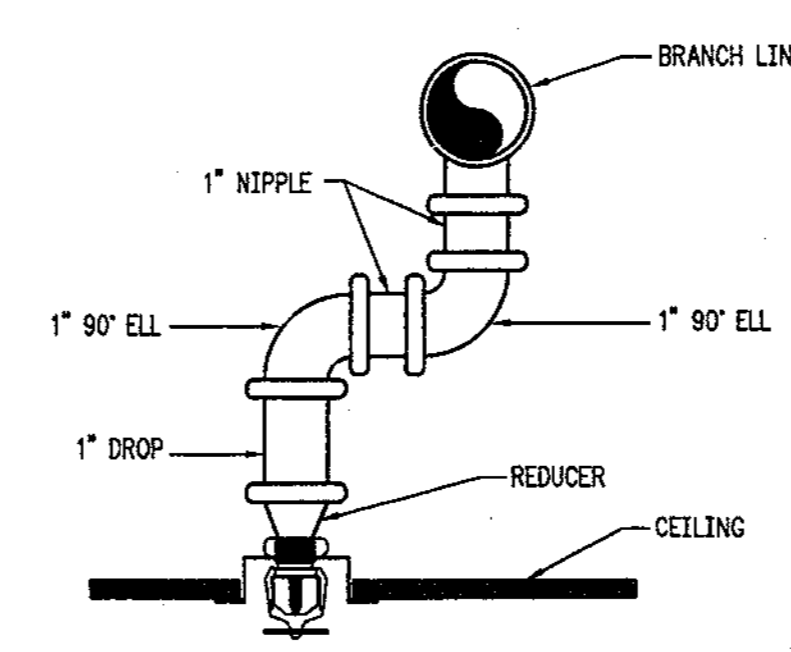
**TEST LINE DETAIL**  
 N.T.S.



**RECESSED SPRINKLER DETAIL**  
 NEW INSTALLATION N.T.S.



**RETURN BEND DETAIL**  
 NEW INSTALLATION N.T.S.



**SWING JOINT DETAIL**  
 NEW INSTALLATION N.T.S.

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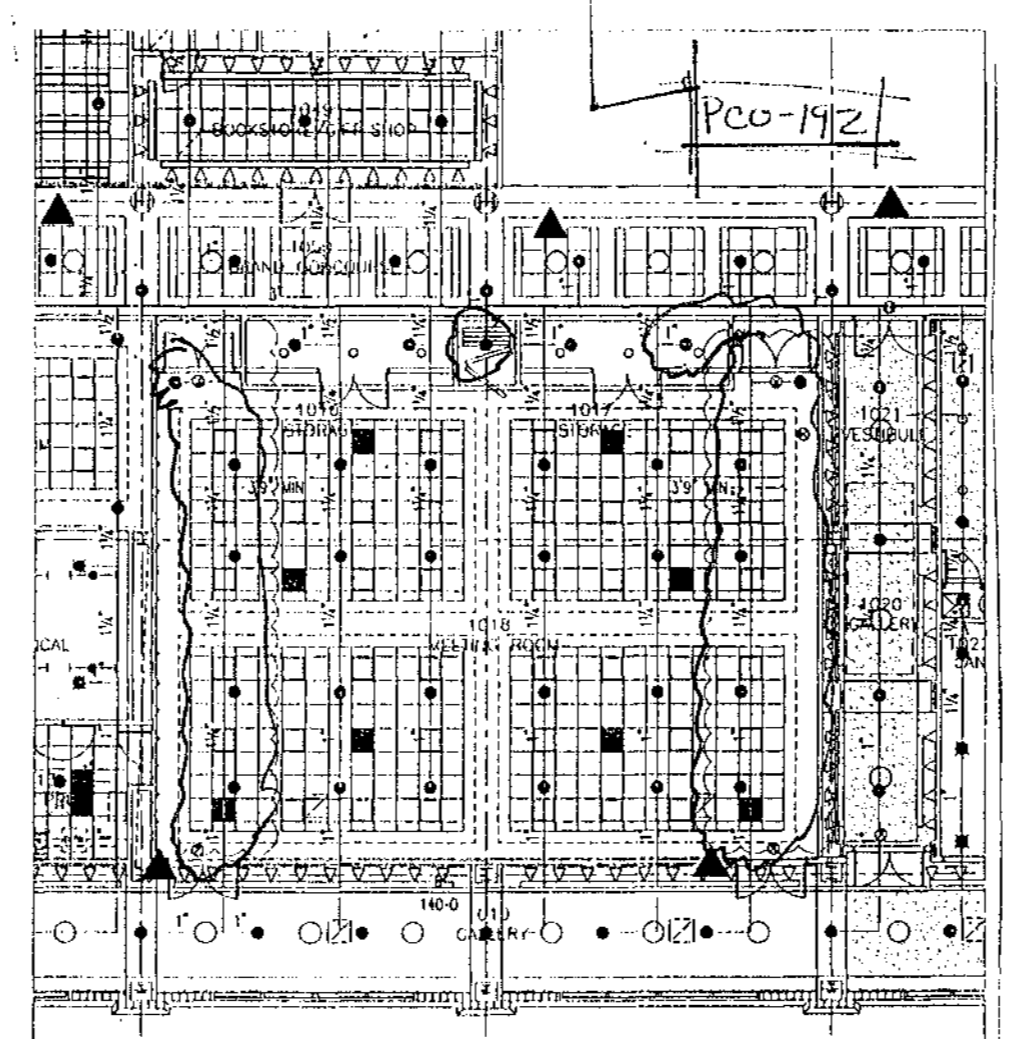
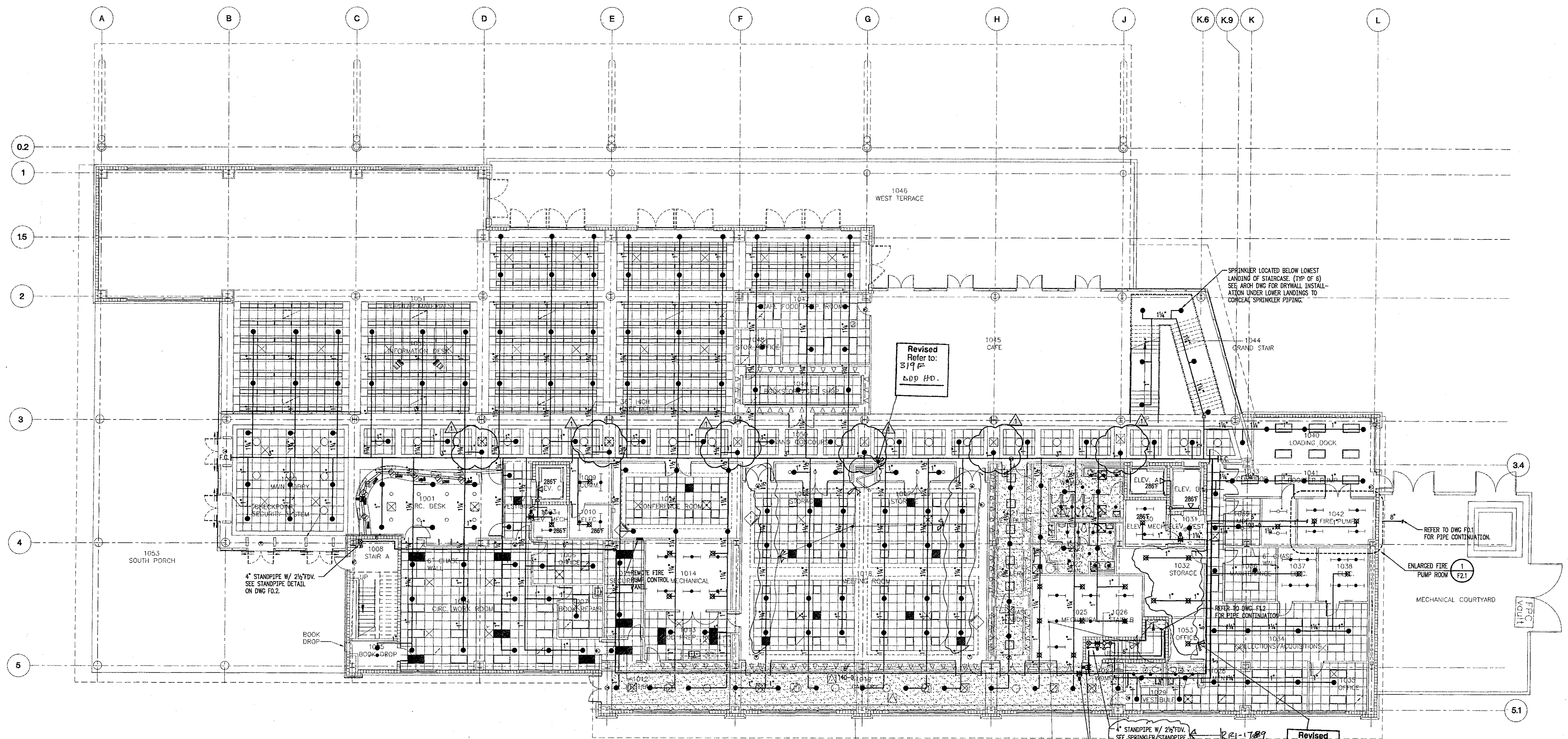
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SYMBOL	ORF	TEMP	RESPONSE	K-FAC	FINISH	MODEL	STYLE	PLATE	MFG.
●	1/4"	155°	QUICK	5.62	CHROME	F1FR	RECESSED	CHROME	RELIABLE
○	1/4"	155°	QUICK	5.62	BRASS	F1FR	UPRIGHT	NONE	RELIABLE
⊗	1/4"	155°	QUICK	5.62	BRASS	F1FR	UPRIGHT	HD/CD	RELIABLE
◁	1/2"	155°	QUICK	5.62	CHROME	F1FR	HOR. SIDEWALL	CHROME	RELIABLE

REVISION: #3 - AS/44  
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Brenda V. Morawa  
 44070  
 JAN 09 2003

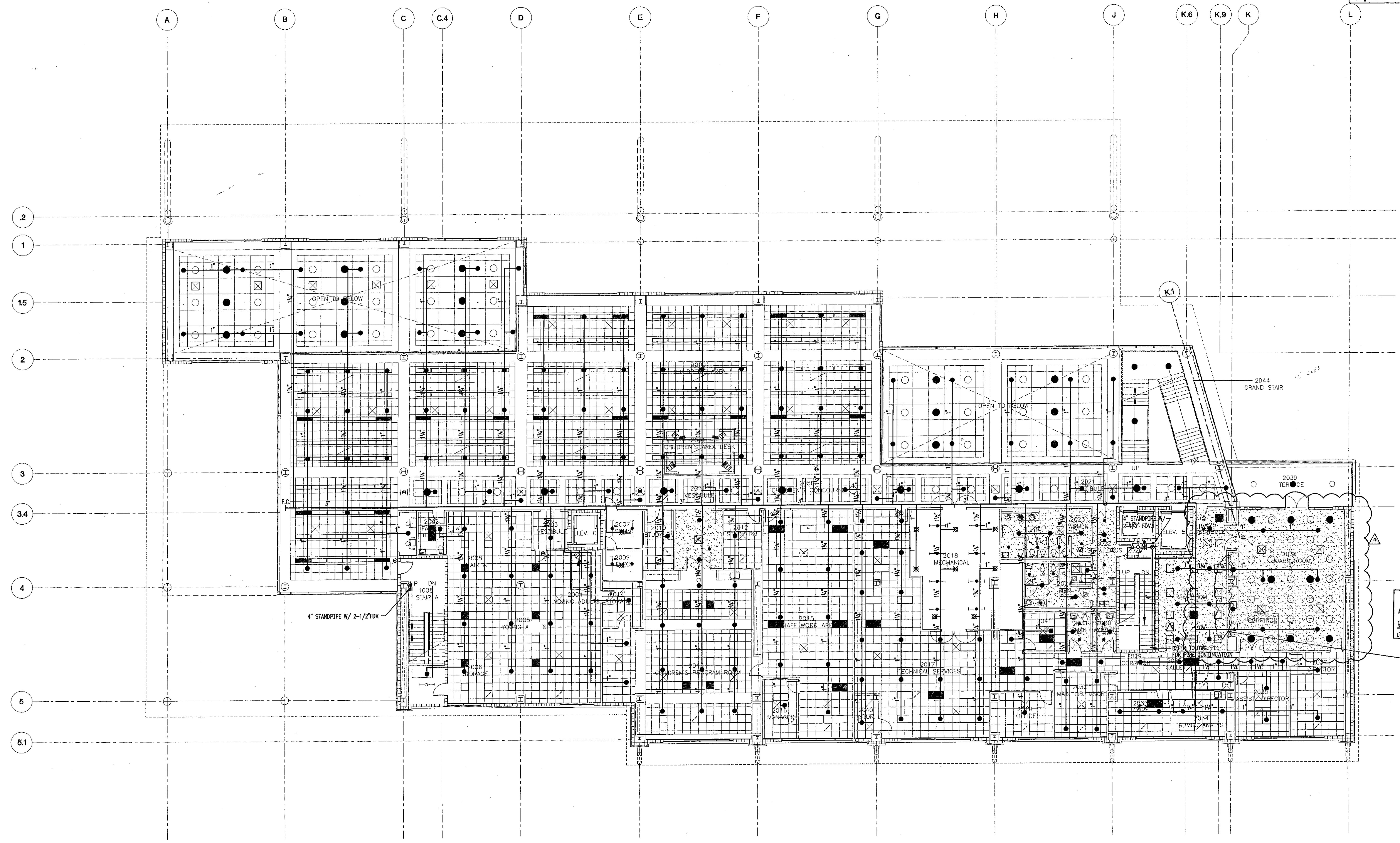
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 A-58-0403  
 R-326F  
 R-326F  
 R-326F

FIRE SPRINKLER HEAD LEGEND									
SYMBOL	ORF	TEMP	RESPONSE	K-FACTOR	FINISH	MODEL	STYLE	PLATE	MFG.
●	1/2"	155°	QUICK	5.62	CHROME	F1FR	RECESSED	CHROME	RELIABLE
○	1/2"	155°	QUICK	5.62	BRASS	F1FR	UPRIGHT	NONE	RELIABLE
■	1/2"	155°	QUICK	5.62	BRASS	F1FR	UPRIGHT	NO GO	RELIABLE
◁	1/2"	155°	QUICK	5.62	CHROME	F1FR	NOR. SIDEWALL	CHROME	RELIABLE

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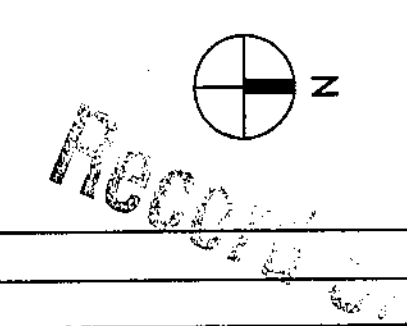
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Revised:  
 ADDENDUM #1  
 B-13-02

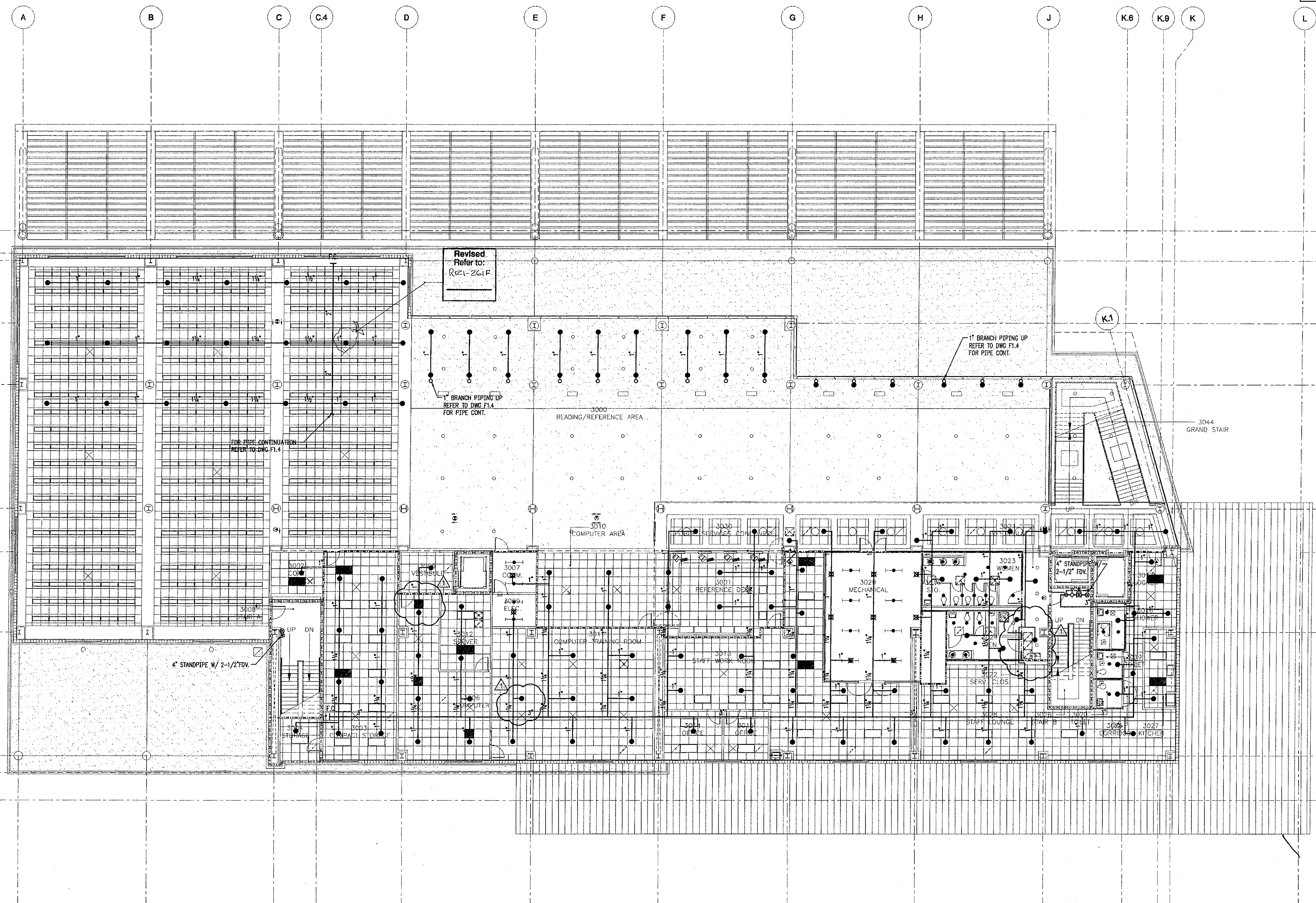
Brendo V. Morawa  
 8/9/02

Seal  
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F1.2







FIRE SPRINKLER HEAD LEGEND									
SYMBOL	ORF	TEMP	RESPONSE	K-FACTOR	FINISH	MODEL	STYLE	PLATE	MFG.
●	1/2"	155°	QUICK	5.62	CHROME	F1FR	RECESSED	CHROME	RELIABLE
○	1/2"	155°	QUICK	5.62	BRASS	F1FR	UPRIGHT	NONE	RELIABLE
⊠	1/2"	155°	QUICK	5.62	BRASS	F1FR	UPRIGHT	HD/SD	RELIABLE
◁	1/2"	155°	QUICK	5.62	CHROME	F1FR	HOR. SIDEWALL	CHROME	RELIABLE

THIRD FLOOR PLAN - FIRE PROTECTION  
SCALE: 3/32"=1'-0"

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Revised:  
ADDENDUM #1  
8-13-02

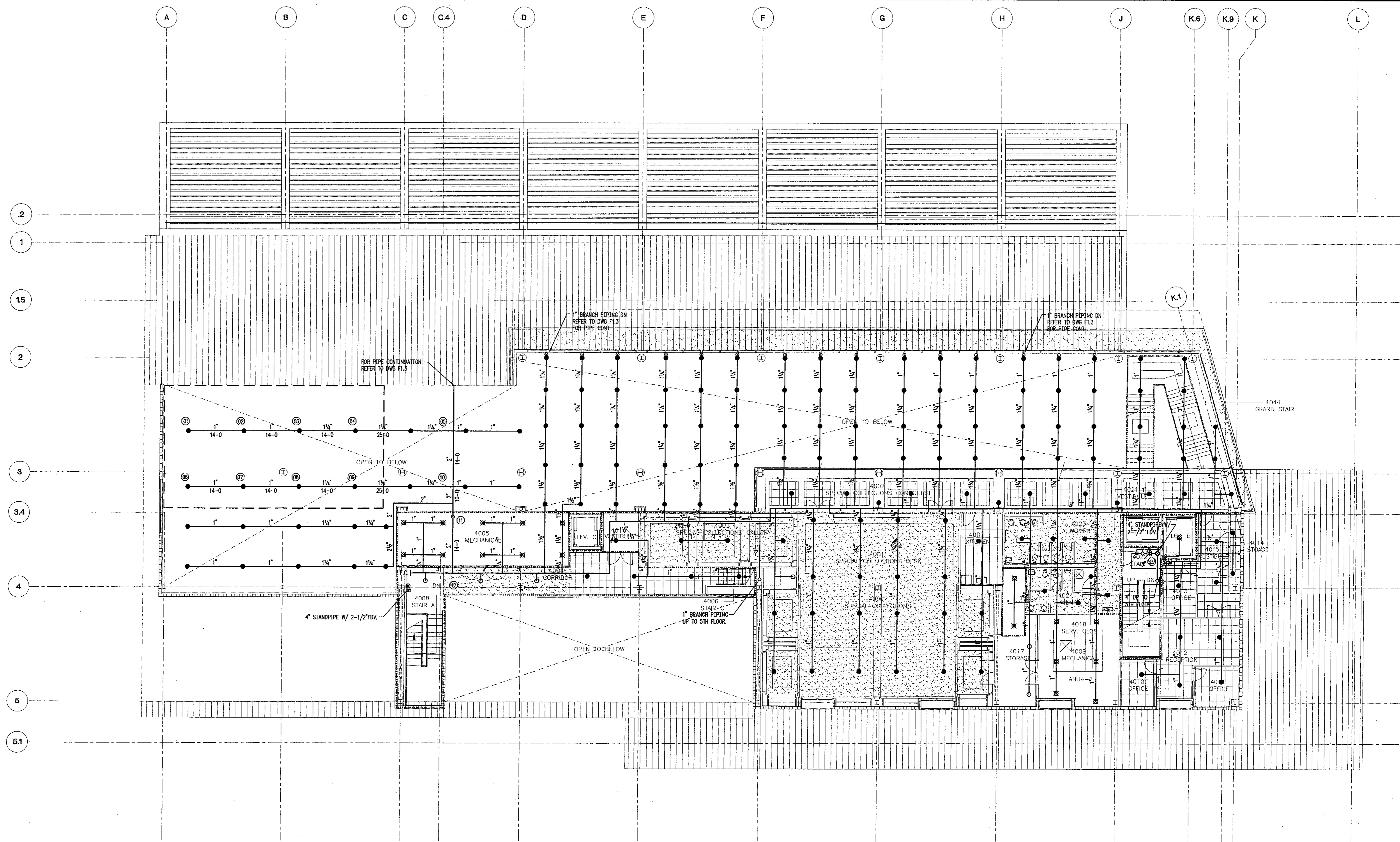
Brendg V. Morawa  
44070

JAN 09 2003

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SYMBOL	ORF	TEMP	RESPONSE	K-FAC	FINISH	MODEL	STYLE	PLATE	MFG.
●	1/2"	155°	QUICK	5.62	CHROME	F1FR	RECESSED	CHROME	RELIABLE
○	1/2"	155°	QUICK	5.62	BRASS	F1FR	UPRIGHT	NONE	RELIABLE
⊗	1/2"	155°	QUICK	5.62	BRASS	F1FR	UPRIGHT	HD/CD	RELIABLE
◁	1/2"	155°	QUICK	5.62	CHROME	F1FR	HQR. SIDEWALL	CHROME	RELIABLE

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F14

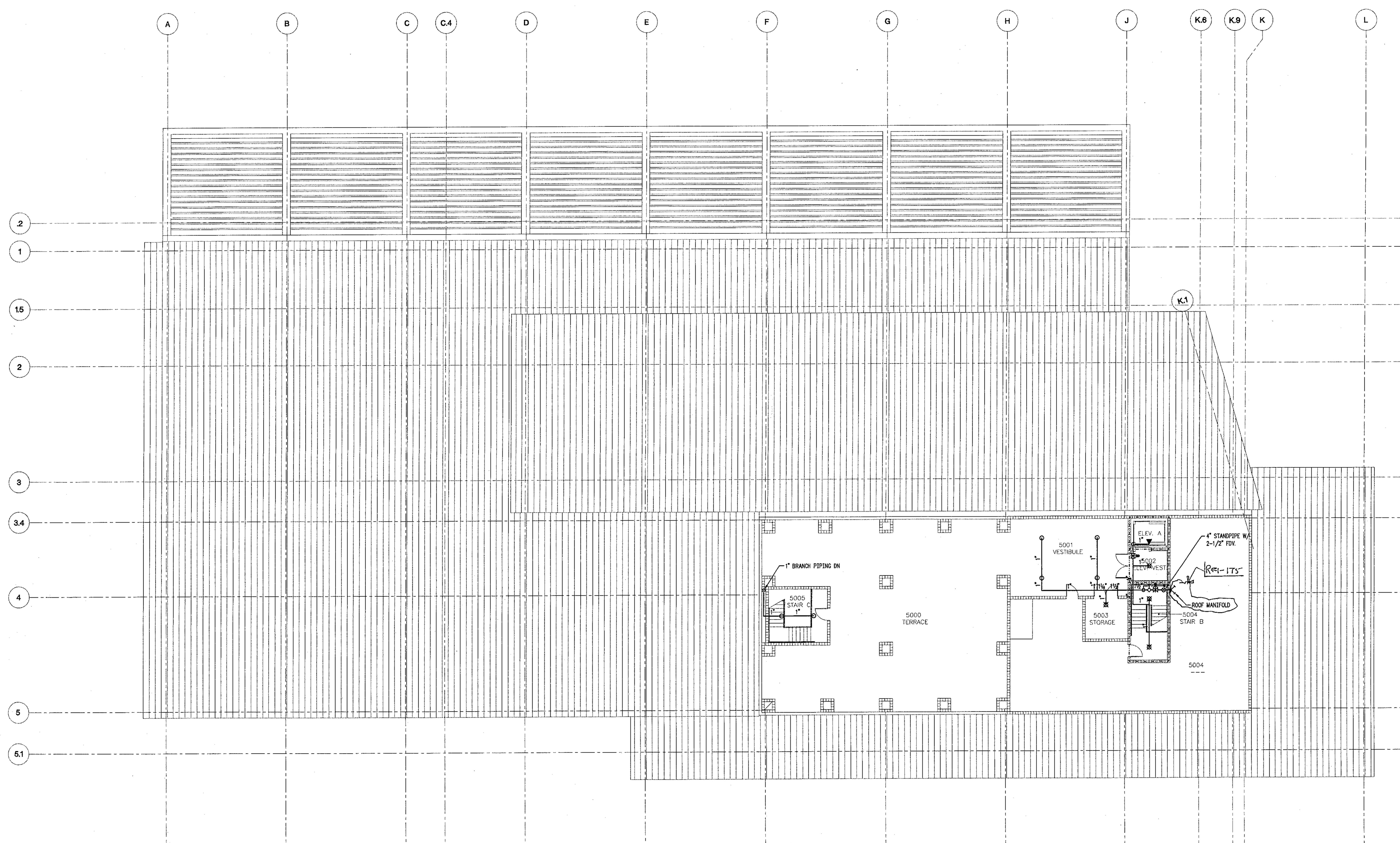
2002118

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FOURTH FLOOR PLAN - FIRE PROTECTION  
 SCALE: 3/32"=1'-0"

RECEIVED





FIRE SPRINKLER HEAD LEGEND									
SYMBOL	ORF	TEMP	RESPONSE	K-FACTOR	FINISH	MODEL	STYLE	PLATE	MFG.
●	1/4"	155°	QUICK	5.62	CHROME	FIFR	RECESSED	CHROME	RELIABLE
○	1/4"	155°	QUICK	5.62	BRASS	FIFR	UPRIGHT	NONE	RELIABLE
⊗	1/4"	155°	QUICK	5.62	BRASS	FIFR	UPRIGHT	HD/CD	RELIABLE
<	1/4"	155°	QUICK	5.62	CHROME	FIFR	HOR. SIDEWALL	CHROME	RELIABLE

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F15

L: 798034, F1-5.dwg, 07/19/02, 14:29, rob.shorey

PENTHOUSE PLAN - FIRE PROTECTION  
 SCALE: 3/32"=1'-0"

2002118



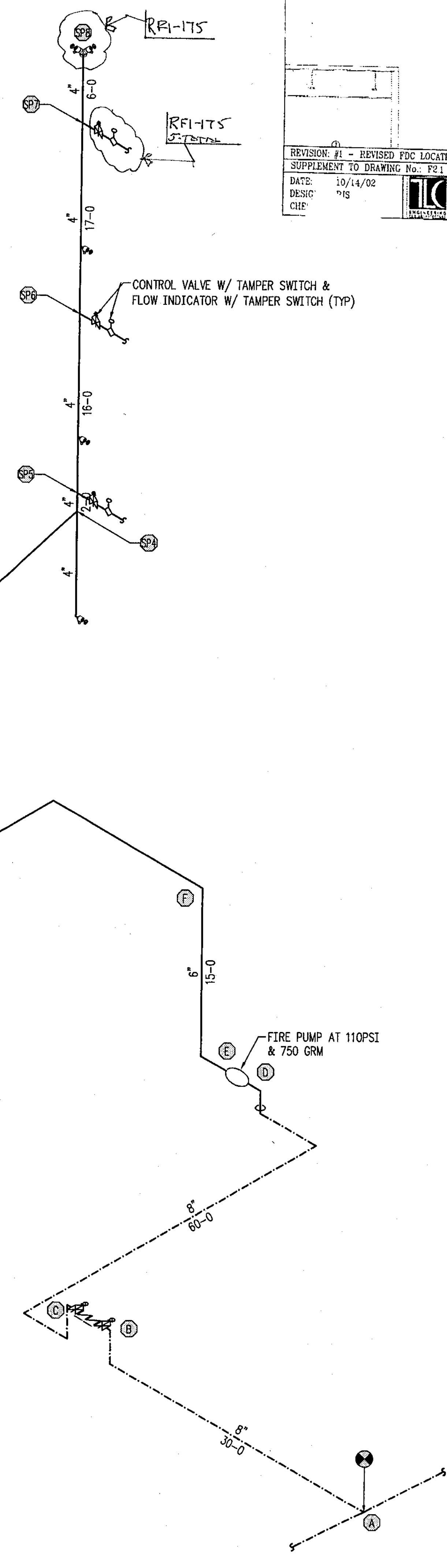
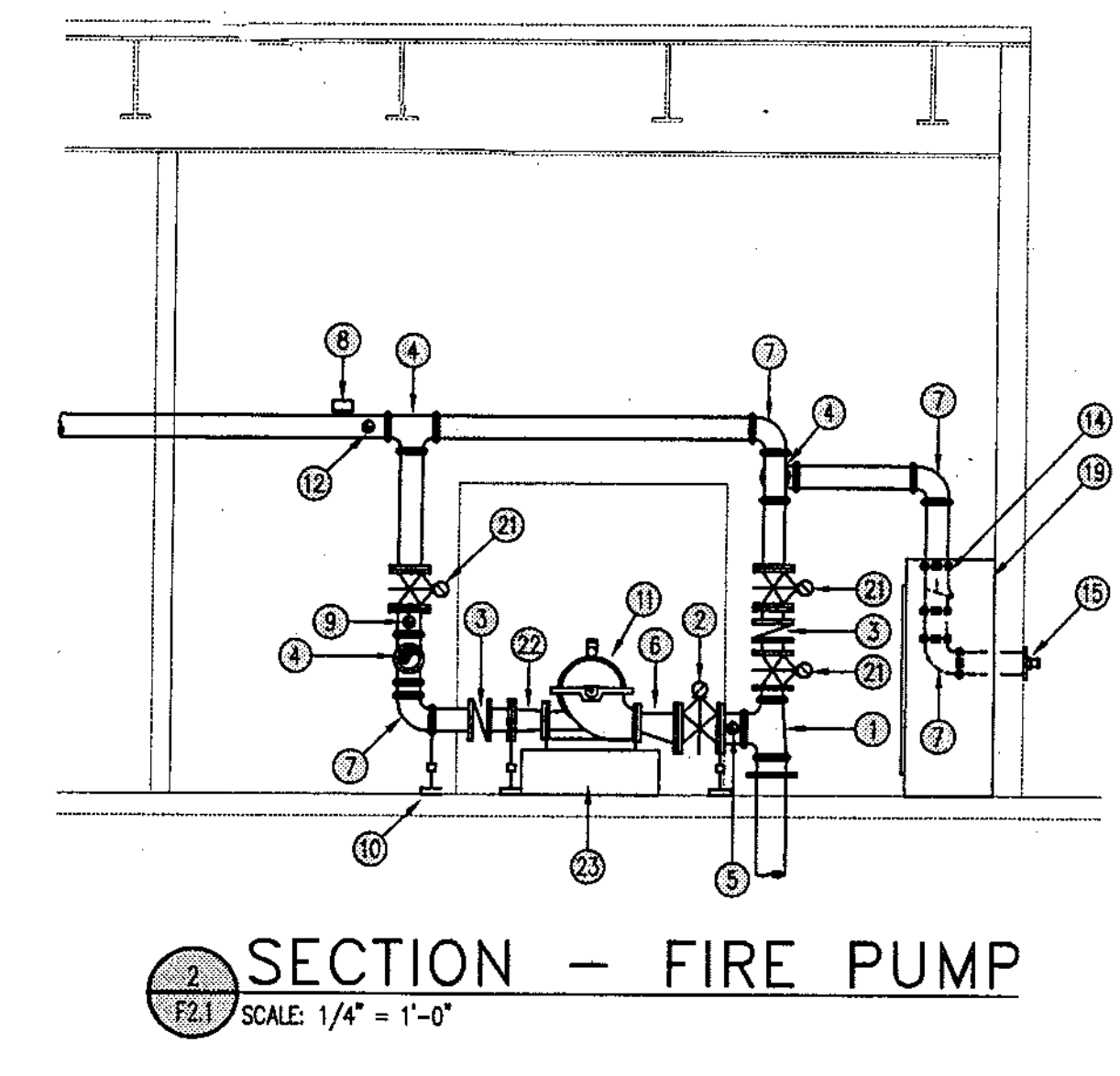
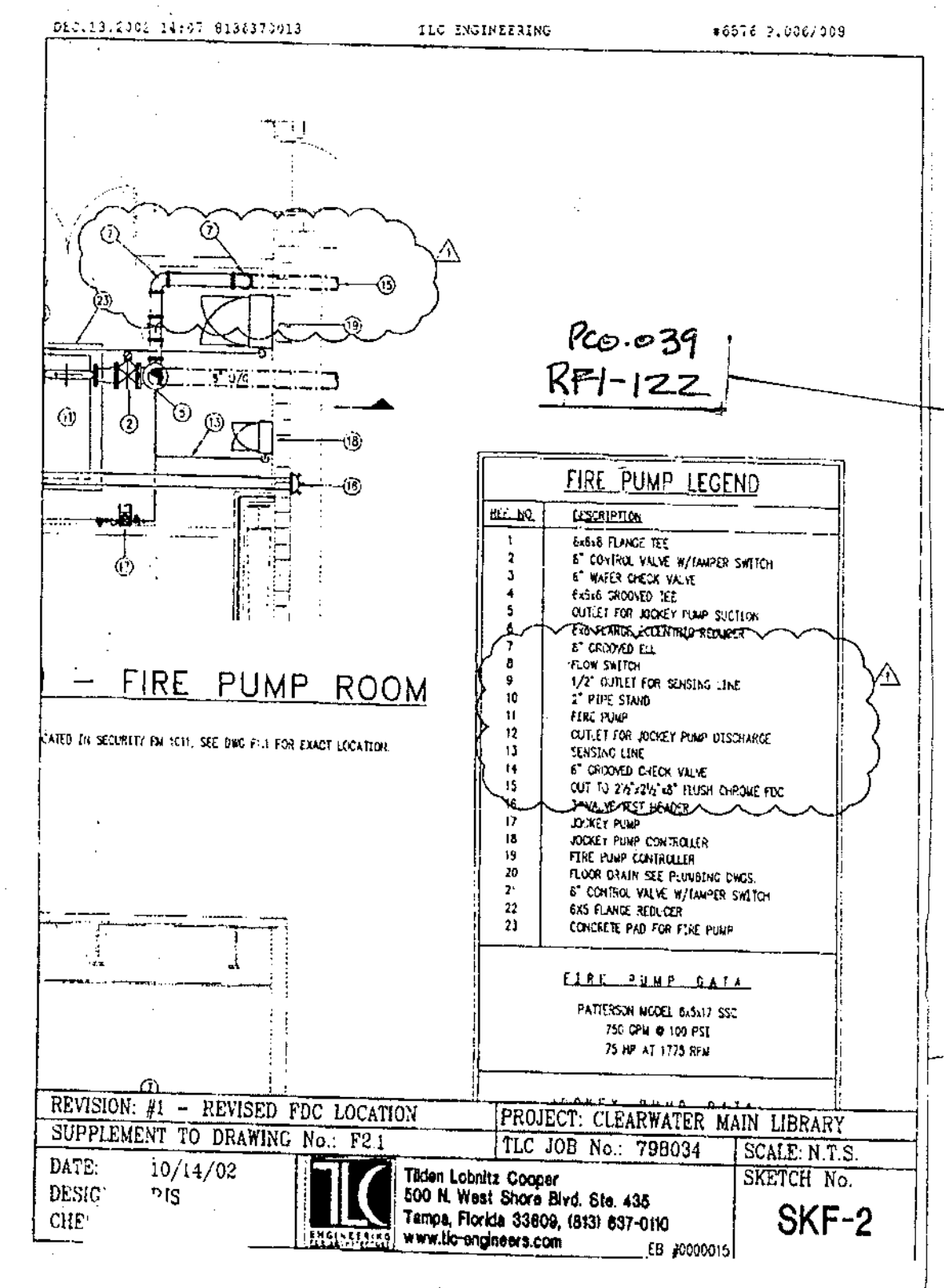
FIRE PUMP LEGEND	
REF. NO.	DESCRIPTION
1	8x6x8 FLANGE TEE
2	8" CONTROL VALVE W/TAMPER SWITCH
3	6" WAFER CHECK VALVE
4	8x6x8 GROOVED TEE
5	OUTLET FOR JOCKEY PUMP SUCTION
6	7/8x6 FLANGE ECCENTRIC REDUCER
7	6" GROOVED ELL
8	FLOW SWITCH
9	1/2" OUTLET FOR SENSING LINE
10	2" PIPE STAND
11	FIRE PUMP
12	OUTLET FOR JOCKEY PUMP DISCHARGE
13	SENSING LINE
14	6" GROOVED CHECK VALVE
15	2 1/2" x 2 1/2" 36" FLUSH CHROME FDC
16	3" VALVE TEST HEADER
17	JOCKEY PUMP
18	JOCKEY PUMP CONTROLLER
19	FIRE PUMP CONTROLLER
20	FLOOR DRAIN SEE PLUMBING DWGS.
21	6" CONTROL VALVE W/TAMPER SWITCH
22	6x5 FLANGE REDUCER
23	CONCRETE PAD FOR FIRE PUMP

FIRE PUMP DATA:	
PATTERSON MODEL 6x5x17 SSC	
750 GPM @ 100 PSI	
75 HP AT 1775 RPM	

JOCKEY PUMP DATA:	
GRUNDFOS MODEL CR2-120U	
7.5 GPM @ 110 PSI	
3600 RPM - 3 HP - 3 PHASE / 60 CYCLE / 480 VOLT	



Revised Refer to:  
 Ref: 220A  
 DWG: 220A

Revised Refer to:  
 Ref: 019  
 DWG: 019

Revised Refer to:  
 SHIP COND. BOOST TO SOL. PUMP  
 N.T.S. W/ 1/2" x 1/2" x 1/2" x 1/2"

Revised Refer to:  
 Ref: 220A  
 DWG: 220A

Record Set