



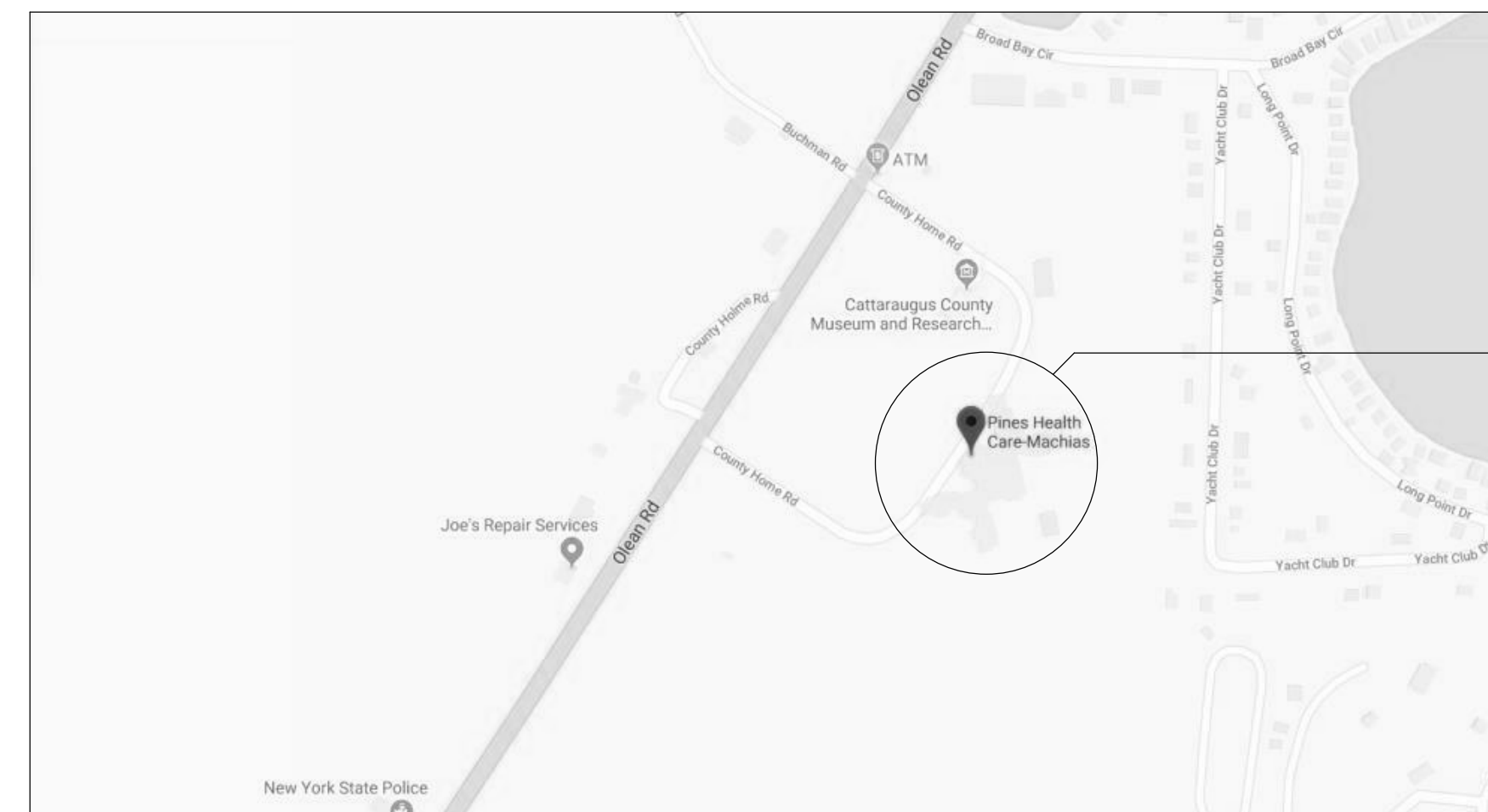
CATTARAUGUS COUNTY
 CATTARAUGUS COUNTY PINES
 MACHIAS FIRE ALARM
 DESIGN DEVELOPEMNT

CATTARAUGUS COUNTY

CATTARAUGUS COUNTY PINES MACHIAS FIRE ALARM

9822 ROUTE 16 MACHIAS, NEW YORK

DESIGN DEVELOPEMNT
 07/05/2019



SITE



Centerpointe Corporate Park
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 Williamsville, NY 14221
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ED-101	FIRST FLOOR - REMOVALS - AREA "A"
ED-102	FIRST FLOOR - REMOVALS - AREA "B"
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Wendel Project No. 123456



CS-001



CATTARAUGUS COUNTY

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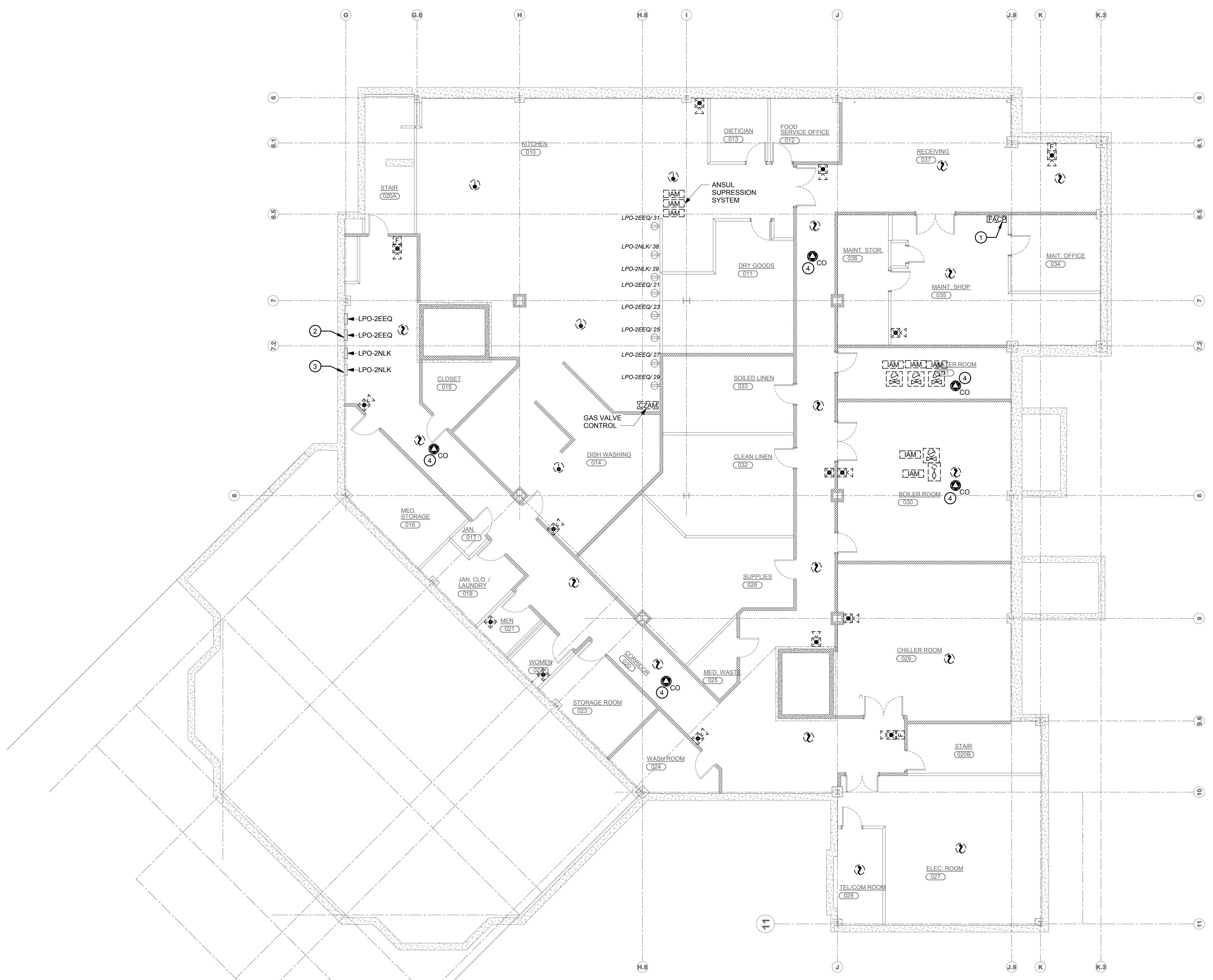
Wendel WD Architecture, Engineering, Surveying and
Landscape Architecture, P.C.

GENERAL DEMOLITION NOTES:

- A. MAINTAIN INTEGRITY OF EXISTING CIRCUIT WIRING PRESENTLY INSTALLED AND SERVING EQUIPMENT OUTSIDE THE WORK AREA. VERIFY ROUTE OF EACH FEEDER AND BRANCH CIRCUIT SCHEDULED FOR REMOVAL.
- B. PROVIDE PROTECTION FOR ALL EXISTING SCHEDULED TO REMAIN DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OR RECONDITIONING OF EQUIPMENT/ITEMS DAMAGED DURING REMOVALS.
- C. FIRE ALARM AND SECURITY SYSTEMS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. PROVIDE TEMPORARY WIRING AS REQUIRED TO MAINTAIN FIRE ALARM SYSTEM DETECTION/NOTIFICATION THROUGHOUT CONSTRUCTION PHASE AND OPERATION OF SECURITY SYSTEM. NOTIFY OWNER OF AREAS TO BE SHUTDOWN WHILE WORK IS BEING PERFORMED. FIRE ALARM AND SECURITY SYSTEMS SHALL BE FULLY OPERATIONAL AT END OF EACH WORK DAY. CONTRACTOR SHALL NOTE LEAVE ANY AREAS WITHOUT FIRE ALARM SYSTEM BEING FULLY FUNCTIONAL AND SECURITY SYSTEM FULLY OPERATIONAL.
- D. UNLESS OTHERWISE NOTED, DISCONNECT AND REMOVE ALL ELECTRICAL WORK ASSOCIATED WITH DEVICE/FIXTURE SCHEDULED FOR REMOVAL. ASSOCIATED ELECTRICAL WORK SHALL INCLUDE BUT NOT LIMITED TO CONDUCTORS, CONDUIT, BOXES, CONNECTORS, HANGERS, CONTROL EQUIPMENT, ETC. BACK TO SOURCE PANEL.
- E. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ELECTRICAL DEVICES AND MISC. ITEMS AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR ANY COST ASSOCIATED WITH DISPOSAL.
- F. DEMOLITION SHOWN SHALL BE SELECTIVE. UNLESS OTHERWISE INDICATED ON THE PLAN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF DISCREPANCIES FOUND IN THE FIELD PRIOR TO DEMOLITION OF ANY ITEMS NOT SHOWN. CONTRACTOR SHALL, AT HIS EXPENSE, REPLACE OR REPAIR ANY DEMOLISHED ITEM(S) THAT WERE NOT CALLED FOR ON THE PLANS OR BROUGHT TO ENGINEER'S ATTENTION.

④ REMOVAL NOTES:

- 1. DISCONNECT AND REMOVE FIRE ALARM SYSTEM, PANEL, DEVICES AND ALL ITS ASSOCIATED ELECTRICAL WORK IN ITS ENTIRETY. CONNECTION TO WANDERGUARD DOORS (3 TOTAL), ACCESS CONTROL SYSTEM, BMS SYSTEM AND TELEPHONE LINES SHALL REMAIN FOR EXTENSION AND RECONNECTION TO NEW.
- 2. DISCONNECT AND REMOVE BRANCH CIRCUIT BREAKERS 21, 23, 25, 27, 29, AND 31, AND TURN OVER TO OWNER. PROVIDE 24VDC SHUT TRIP TYPE 20A/1P BREAKERS IN PLACE OF THREE (3) REMOVED AND EXTEND THREE OTHER CIRCUITS TO ADJACENT PANEL. RECONNECT EXISTING BRANCH CIRCUIT WIRING AND PROVIDE 2#12+8 12EG IN 3/4" CONDUIT AS REQUIRED FOR EXTENDED CIRCUITS.
- 3. DISCONNECT AND REMOVE BRANCH CIRCUIT BREAKERS 29, AND 31, AND TURN OVER TO OWNER. PROVIDE 24VDC SHUT TRIP TYPE 20A/1P BREAKERS IN PLACE OF REMOVED AND RECONNECT EXISTING BRANCH CIRCUIT WIRING.
- 4. DISCONNECT AND REMOVE BATTERY OPERATED CO DETECTOR AND TURN OVER TO OWNER.



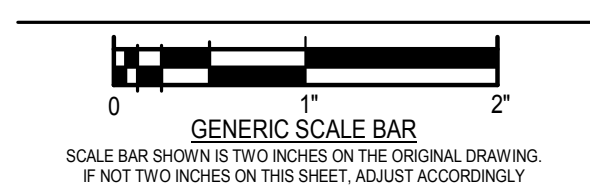
① BASEMENT - REMOVALS - AREA "B"
1/8" = 1'-0"



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DWG. TITLE
BASEMENT - REMOVALS - AREA "B"



DATE 07/05/2019
 SCALE 1/8" = 1'-0"
 DWN. JJR CHK. CDW
 PROJ. No. 307663
 DWG. No.

ED-100



CATTARAUGUS COUNTY

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GENERAL DEMOLITION NOTES:

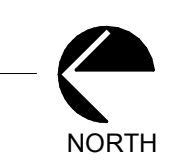
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- E. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ELECTRICAL DEVICES AND MISC. ITEMS AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR ANY COST ASSOCIATED WITH DISPOSAL.
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REMOVAL NOTES:

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- 2. DISCONNECT AND REMOVE FIRE ALARM ADDRESSABLE INPUT MODULE. MONITORING SECURITY DOOR. EXISTING WIRING SHALL REMAIN FOR RECONNECTION TO NEW MODULE.



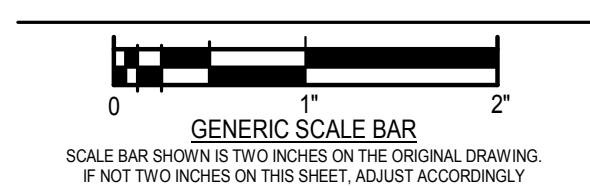
1 FIRST FLOOR - REMOVALS - AREA "A"
1/8" = 1'-0"



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DWG. TITLE
FIRST FLOOR - REMOVALS - AREA "A"



DATE 07/05/2019
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 DWN CDW CHK. JUR
 PROJ. No. 307663
 DWG. No.

ED-101



CATTARAUGUS COUNTY

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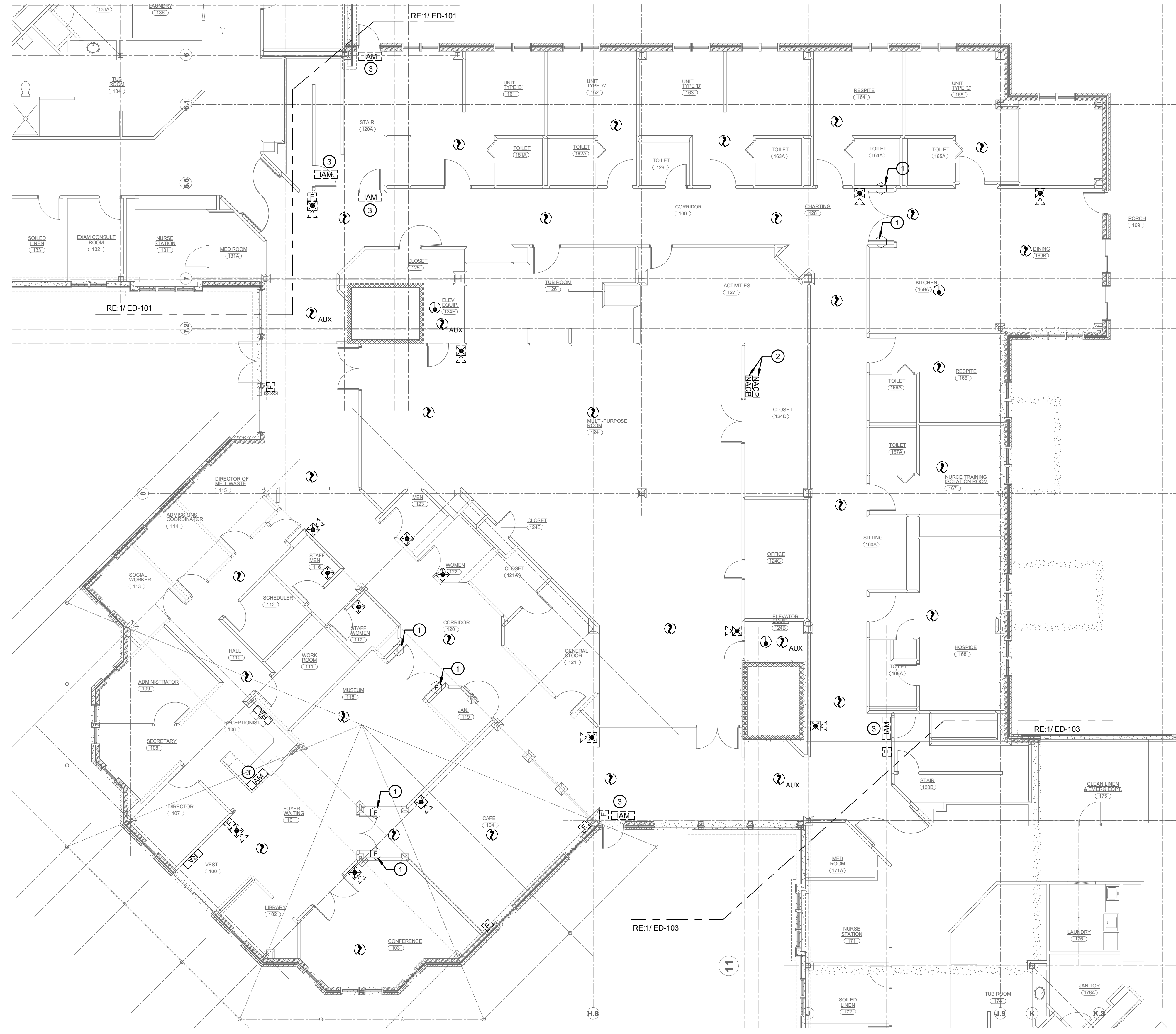
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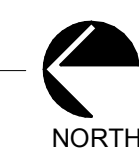
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REMOVAL NOTES:

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- 2. DISCONNECT AND REMOVE NOTIFICATION APPLIANCE POWER PANEL AND ALL ITS ASSOCIATED ELECTRICAL WORK IN ITS ENTIRETY BACK TO SOURCE PANEL. EMERGENCY BRANCH CIRCUIT SERVING PANELS SHALL REMAIN FOR RECONNECTION AND USE BY NEW.
- 3. DISCONNECT AND REMOVE FIRE ALARM ADDRESSABLE INPUT MODULE, MONITORING SECURITY DOOR. EXISTING WIRING SHALL REMAIN FOR RECONNECTION TO NEW MODULE.



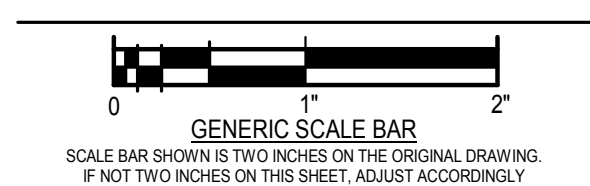
1 FIRST FLOOR - REMOVALS - AREA "B"
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DWG. TITLE
FIRST FLOOR - REMOVALS - AREA "B"



DATE 07/05/2019
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DWN CDW CHK. JUR
PROJ. No. 307663
DWG. No.

ED-102



CATTARAUGUS COUNTY

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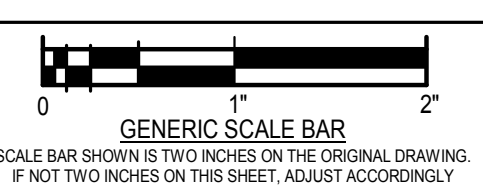
REMOVAL NOTES:

- 1. DISCONNECT AND REMOVE FIRE ALARM SYSTEM WIRING AND POWER TO MAGNETIC DOOR HOLDERS IN THEIR ENTIRETY BACK TO SOURCE. DOOR HOLDERS SHALL REMAIN FOR CONNECTION TO NEW SYSTEM.
- 2. DISCONNECT FIRE ALARM SYSTEM CONNECTION AND CONTROL RELAY FROM WANDERGUARD SYSTEM DOOR CONTROLLER AND ALL ITS ASSOCIATED ELECTRICAL WORK IN ITS ENTIRETY BACK TO SOURCE PANEL.
- 3. DISCONNECT AND REMOVE FIRE ALARM ADDRESSABLE INPUT MODULE, MONITORING SECURITY DOOR. EXISTING WIRING SHALL REMAIN FOR RECONNECTION TO NEW MODULE.

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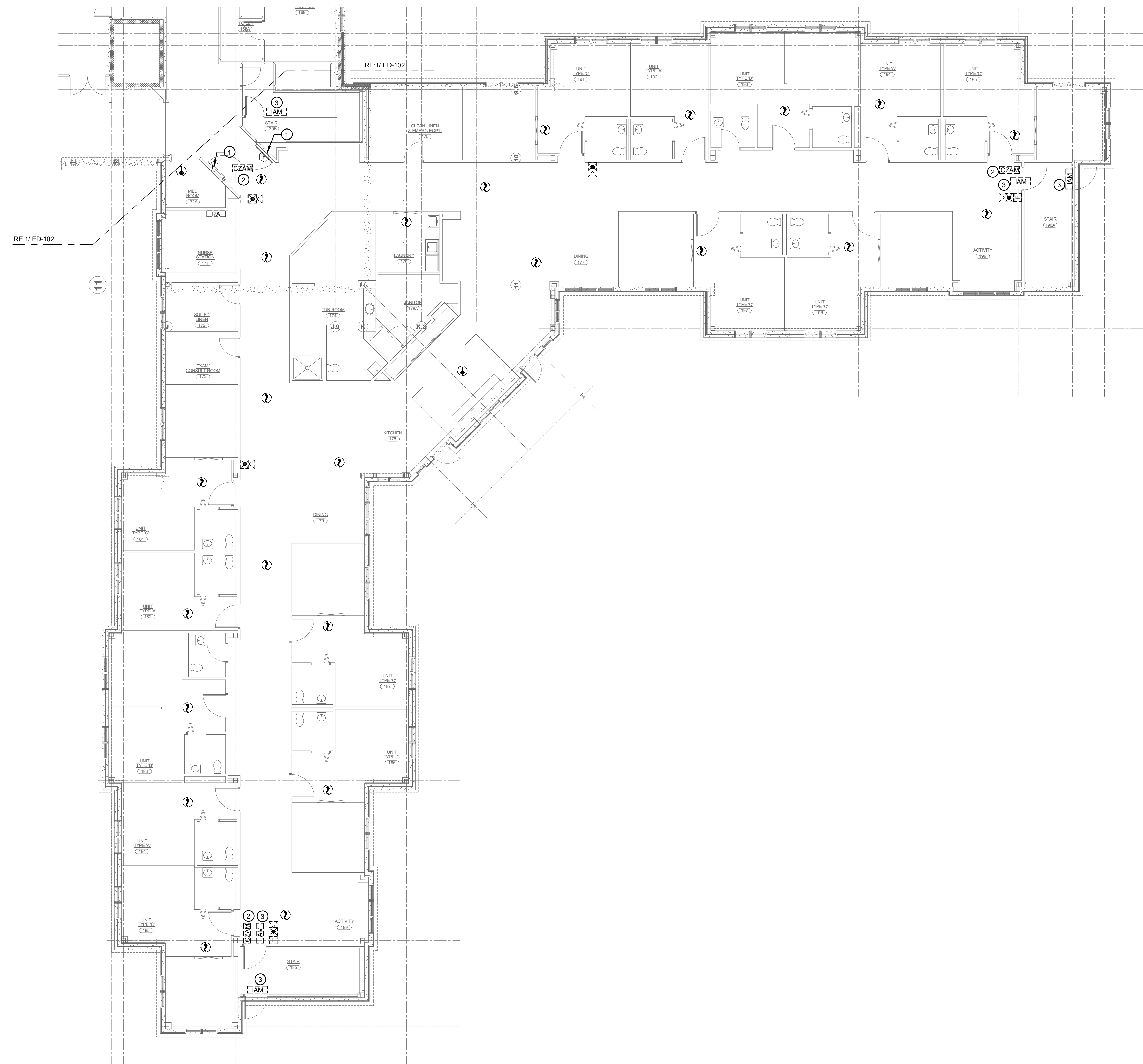
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DWG. TITLE
FIRST FLOOR - REMOVALS - AREA "C"



DATE 07/05/2019
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DWN. CDW CHK. JUR
PROJ. No. 307663
DWG. No.

ED-103



1 FIRST FLOOR - REMOVALS - AREA "C"
1/8" = 1'-0"





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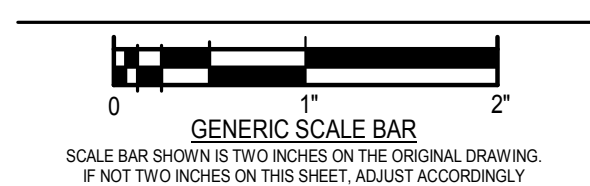
1 SECOND FLOOR - REMOVALS - AREA "A"
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SECOND FLOOR - REMOVALS - AREA "A"



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ED-104



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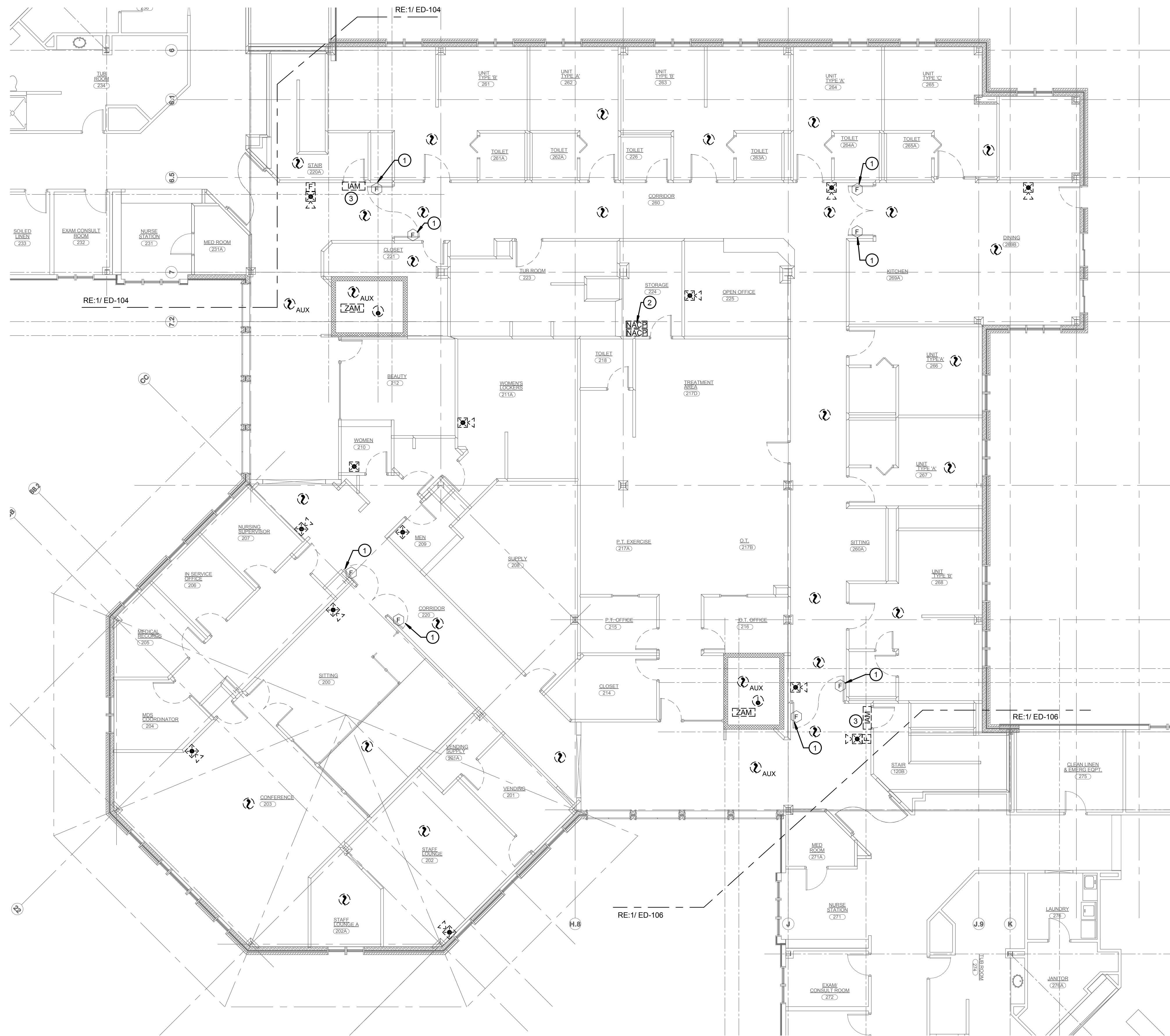
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- E. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ELECTRICAL DEVICES AND MISC. ITEMS AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR ANY COST ASSOCIATED WITH DISPOSAL.
- F. DEMOLITION SHOWN SHALL BE SELECTIVE. UNLESS OTHERWISE INDICATED ON THE PLAN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF DISCREPANCIES FOUND IN THE FIELD PRIOR TO DEMOLITION OF ANY ITEMS NOT SHOWN. CONTRACTOR SHALL, AT HIS EXPENSE, REPLACE OR REPAIR ANY DEMOLISHED ITEM(S) THAT WERE NOT CALLED FOR ON THE PLANS OR BROUGHT TO ENGINEERS ATTENTION.

REMOVAL NOTES:

- 1. DISCONNECT AND REMOVE FIRE ALARM SYSTEM WIRING AND POWER TO MAGNETIC DOOR HOLDERS IN THEIR ENTIRETY BACK TO SOURCE. DOOR HOLDERS SHALL REMAIN FOR CONNECTION TO NEW SYSTEM.
- 2. DISCONNECT AND REMOVE NOTIFICATION APPLIANCE POWER PANEL AND ALL ITS ASSOCIATED ELECTRICAL WORK IN ITS ENTIRETY BACK TO SOURCE PANEL. EMERGENCY BRANCH CIRCUIT SERVING PANELS SHALL REMAIN FOR RECONNECTION AND USE BY NEW.
- 3. DISCONNECT AND REMOVE FIRE ALARM ADDRESSABLE INPUT MODULE. MONITORING SECURITY DOOR. EXISTING WIRING SHALL REMAIN FOR RECONNECTION TO NEW MODULE.



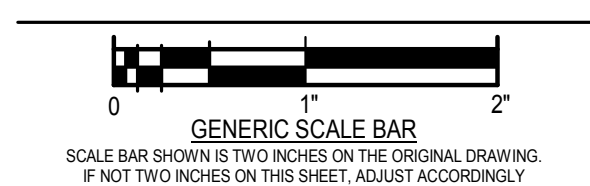
1 SECOND FLOOR - REMOVALS - AREA "B"
1/8" = 1'-0"



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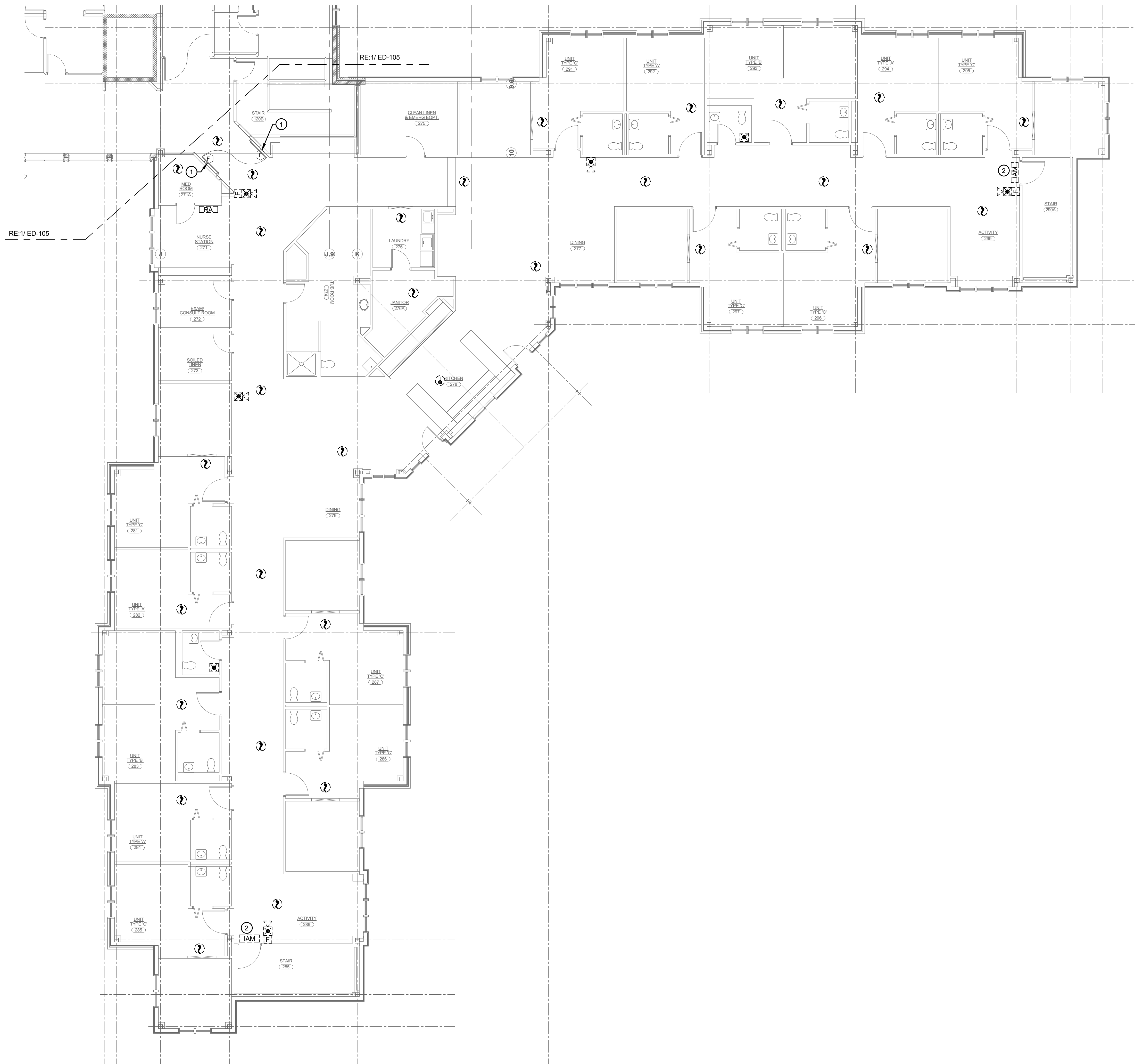
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DWG TITLE
SECOND FLOOR - REMOVALS - AREA "B"



DATE 07/05/2019
SCALE 1/8" = 1'-0"
DWN CDW CHK. JUR
PROJ. No. 307663
DWG. No.

ED-105



GENERAL DEMOLITION NOTES:

- A. MAINTAIN INTEGRITY OF EXISTING CIRCUIT WIRING PRESENTLY INSTALLED AND SERVING EQUIPMENT OUTSIDE THE WORK AREA. VERIFY ROUTE OF EACH FEEDER AND BRANCH CIRCUIT SCHEDULED FOR REMOVAL.
- B. PROVIDE PROTECTION FOR ALL EXISTING CONSTRUCTION SYSTEMS/EQUIPMENT SCHEDULED TO REMAIN DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OR RECONDITIONING OF EQUIPMENT/ITEMS DAMAGED DURING REMOVALS.
- C. FIRE ALARM AND SECURITY SYSTEMS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. PROVIDE TEMPORARY WIRING AS REQUIRED TO MAINTAIN FIRE ALARM SYSTEM DETECTION/NOTIFICATION THROUGHOUT CONSTRUCTION PHASE AND OPERATION OF SECURITY SYSTEM. NOTIFY OWNER OF AREAS TO BE SHUTDOWN WHILE WORK IS BEING PERFORMED. FIRE ALARM AND SECURITY SYSTEMS SHALL BE FULLY OPERATIONAL AT END OF EACH WORK DAY. CONTRACTOR SHALL NOTE LEAVE ANY AREAS WITHOUT FIRE ALARM SYSTEM BEING FULLY FUNCTIONAL AND SECURITY SYSTEM FULLY OPERATIONAL.
- D. UNLESS OTHERWISE NOTED, DISCONNECT AND REMOVE ALL ELECTRICAL WORK ASSOCIATED WITH DEVICE/FIXTURE SCHEDULED FOR REMOVAL. ASSOCIATED ELECTRICAL WORK SHALL INCLUDE BUT NOT LIMITED TO CONDUCTORS, CONDUIT, BOXES, CONNECTORS, HANGERS, CONTROL EQUIPMENT, ETC. BACK TO SOURCE PANEL.
- E. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ELECTRICAL DEVICES AND MISC. ITEMS AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR ANY COST ASSOCIATED WITH DISPOSAL.
- F. DEMOLITION SHOWN SHALL BE SELECTIVE. UNLESS OTHERWISE INDICATED ON THE PLAN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF DISCREPANCIES FOUND IN THE FIELD PRIOR TO DEMOLITION OF ANY ITEMS NOT SHOWN. CONTRACTOR SHALL, AT HIS EXPENSE, REPLACE OR REPAIR ANY DEMOLISHED ITEM(S) THAT WERE NOT CALLED FOR ON THE PLANS OR BROUGHT TO ENGINEERS ATTENTION.

REMOVAL NOTES:

- 1. DISCONNECT AND REMOVE FIRE ALARM SYSTEM WIRING AND POWER TO MAGNETIC DOOR HOLDERS IN THEIR ENTIRETY BACK TO SOURCE. DOOR HOLDERS SHALL REMAIN FOR CONNECTION TO NEW SYSTEM.
- 2. DISCONNECT AND REMOVE FIRE ALARM ADDRESSABLE INPUT MODULE, MONITORING SECURITY DOOR. EXISTING WIRING SHALL REMAIN FOR RECONNECTION TO NEW MODULE.



CATTARAUGUS COUNTY

9822 ROUTE 16
MACHIAS, NEW YORK

CATTARAUGUS COUNTY
PINES MACHIAS FIRE
ALARM
DESIGN DEVELOPEMNT



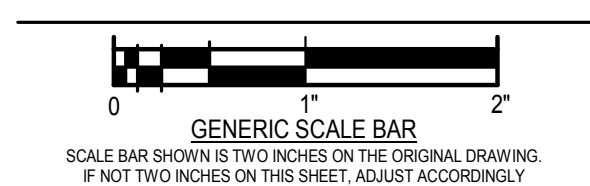
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DWG. TITLE
SECOND FLOOR - REMOVALS - AREA "C"



DATE 07/05/2019
SCALE 1/8" = 1'-0"
DWN CDW CHK. JUR
PROJ. No. 307663
DWG. No.

1 SECOND FLOOR - REMOVALS - AREA "C"
1/8" = 1'-0"



ED-106



CATTARAUGUS COUNTY

9822 ROUTE 16
MACHIAS, NEW YORK

CATTARAUGUS COUNTY
PINES MACHIAS FIRE
ALARM
DESIGN DEVELOPEMNT

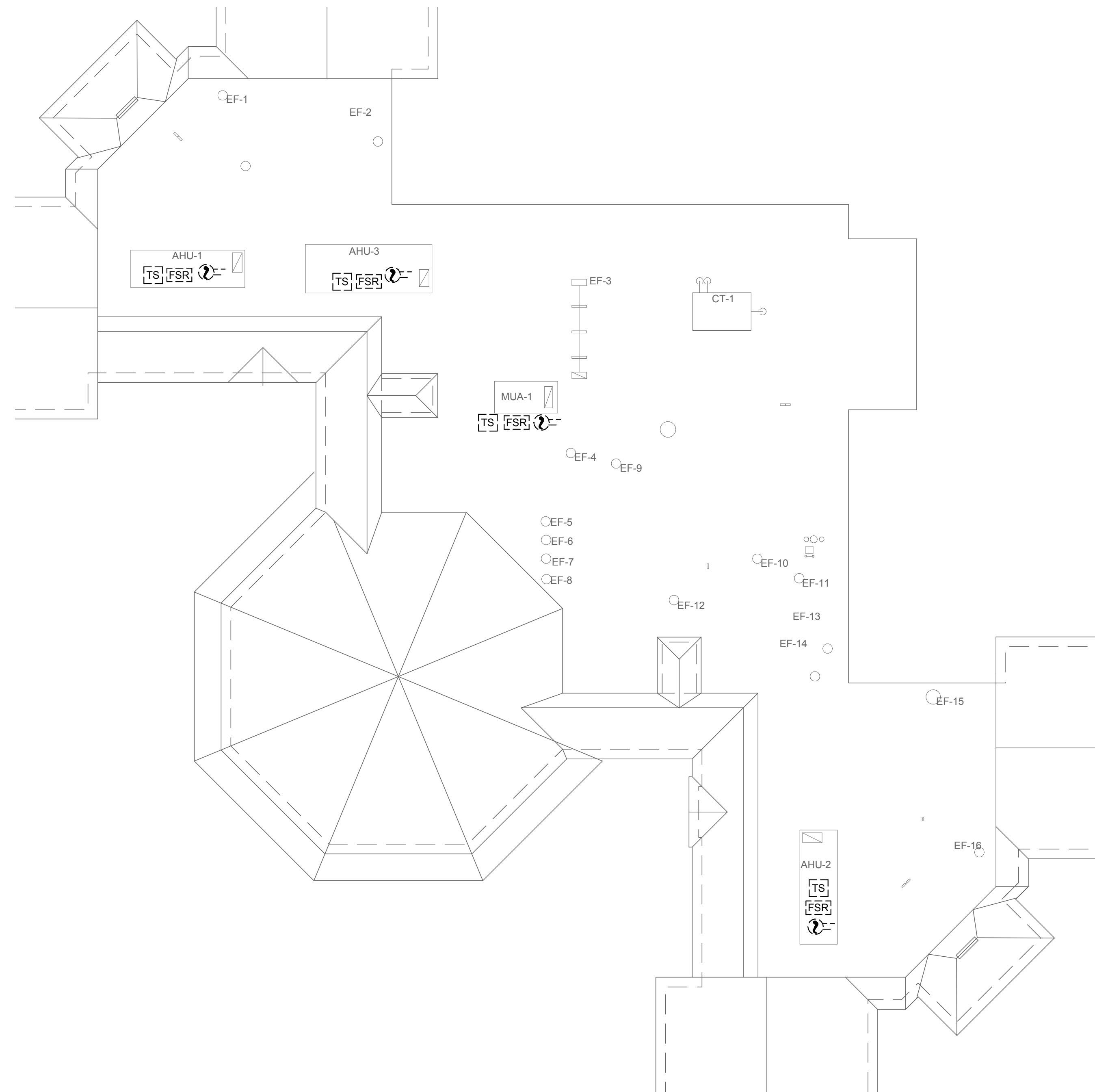


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GENERAL DEMOLITION NOTES:

- A. MAINTAIN INTEGRITY OF EXISTING CIRCUIT WIRING PRESENTLY INSTALLED AND SERVING EQUIPMENT OUTSIDE THE WORK AREA. VERIFY ROUTE OF EACH FEEDER AND BRANCH CIRCUIT SCHEDULED FOR REMOVAL.
- B. PROVIDE PROTECTION FOR ALL EXISTING CONSTRUCTION SYSTEMS/EQUIPMENT SCHEDULED TO REMAIN DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OR RECONDITIONING OF EQUIPMENT/ITEMS DAMAGED DURING REMOVALS.
- C. FIRE ALARM AND SECURITY SYSTEMS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. PROVIDE TEMPORARY WIRING AS REQUIRED TO MAINTAIN FIRE ALARM SYSTEM DETECTION/NOTIFICATION THROUGHOUT CONSTRUCTION PHASE AND OPERATION OF SECURITY SYSTEM. NOTIFY OWNER OF AREAS TO BE SHUTDOWN WHILE WORK IS BEING PERFORMED. FIRE ALARM AND SECURITY SYSTEMS SHALL BE FULLY OPERATIONAL AT END OF EACH WORK DAY. CONTRACTOR SHALL NOTE LEAVE ANY AREAS WITHOUT FIRE ALARM SYSTEM BEING FULLY FUNCTIONAL AND SECURITY SYSTEM FULLY OPERATIONAL.
- D. UNLESS OTHERWISE NOTED, DISCONNECT AND REMOVE ALL ELECTRICAL WORK ASSOCIATED WITH DEVICE/FIXTURE SCHEDULED FOR REMOVAL. ASSOCIATED ELECTRICAL WORK SHALL INCLUDE BUT NOT LIMITED TO CONDUCTORS, CONDUIT, BOXES, CONNECTORS, HANGERS, CONTROL EQUIPMENT, ETC. BACK TO SOURCE PANEL.
- E. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ELECTRICAL DEVICES AND MISC. ITEMS AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR ANY COST ASSOCIATED WITH DISPOSAL.
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1 ROOF - REMOVALS - AREA "A" "B" AND "C"
1/16" = 1'-0"

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ROOF - REMOVALS



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PROJ. No. 307663
DWG. No.

ED-107

SYMBOLS & ABBREVIATIONS SCHEDULE

RECEPTACLES

LP2, 12 	DUPLEX RECEPTACLE OUTLET, 18" A.F.F., 20AMP COMMERCIAL GRADE GROUNDING TYPE WITH MATCHING COVERPLATE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.
LP2, 12 	GFCI RECEPTACLE OUTLET, 18" A.F.F., 20AMP COMMERCIAL GRADE GROUNDING TYPE WITH MATCHING COVERPLATE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.
LP2, 12 	DUPLEX RECEPTACLE OUTLET, 18" AFF., 20AMP COMMERCIAL GRADE GROUNDING TYPE WITH MATCHING COVERPLATE. TAG INDICATES PANELBOARD & DEDICATED BRANCH CIRCUIT THAT IT IS CONNECTED TO. RECEPTACLE SHALL BE SUPPLIED BY A GFCI CIRCUIT BREAKER. PROVIDE LABEL ON COVER "PROTECTED BY GFCI"
LP2, 12 	INDICATES (2) 20 AMP, COMMERCIAL GRADE RECEPTACLES IN 2-GANG BOX UNDER A COMMON MATCHING COVERPLATE. RECEPTACLES SHALL BE GROUNDING TYPE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.
LP2, 12 	(2) GFCI RECEPTACLE OUTLETS, 18" A.F.F., 20AMP COMMERCIAL GRADE GROUNDING TYPE IN 2-GANG BACKBOX WITH MATCHING COMMON COVERPLATE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.
LP2, 10, 12 	RANGE OR DRYER OUTLET VERIFY RECEPTACLE NEMA CONFIGURATION, RATING & INSTALLATION HEIGHT WITH SELECTED EQUIPMENT SUPPLIER. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO. COVER PLATES SHALL BE STAINLESS STEEL.
LP2, 12 	SPECIAL PURPOSE RECEPTACLE AS CALLED FOR ON DRAWINGS OR AS REQUIRED BY EQUIPMENT MANUFACTURER. VERIFY NEMA CONFIGURATION. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.
LP2, 12 	FLOOR MOUNTED RECEPTACLE AS CALLED FOR ON DRAWINGS OR AS REQUIRED BY EQUIPMENT MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE RECESSED IN CONCRETE WITH A METAL COVER. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.
WALL FLOOR 	PROVIDE COMPLETE ELECTRICAL POWER CONNECTION TO MODULAR FURNITURE. WHIP TO BE PROVIDED WITH FURNITURE. CONNECTION SHALL INCLUDE MINIMUM WALL OR FLOOR JUNCTION BOX. WIRING TO CIRCUIT INDICATED, FINAL CONNECTION TO APPROPRIATE FURNITURE GROUP.
M 	MANUAL MOTOR STARTER WITH INDICATOR LIGHT.

POWER

J 	WALL MOUNTED JUNCTION BOX, SIZE AS INDICATED OR PROVIDE MINIMUM SIZE REQUIRED BY LATEST EDITION OF NATIONAL ELECTRICAL CODE (NFPA 70-NEC).
ⓐ 	CEILING MOUNTED JUNCTION BOX, SIZE AS INDICATED OR PROVIDE MINIMUM SIZE REQUIRED BY LATEST EDITION OF NATIONAL ELECTRICAL CODE (NFPA 70-NEC).
	PROVIDE COMPLETE ELECTRICAL CONNECTION TO EQUIPMENT INDICATED (INCLUDING DISCONNECT, CONDUCTORS, RACEWAY, & OTHER REQUIRED HARDWARE. XX-X INDICATES EQUIPMENT TAG. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
	PROVIDE COMPLETE ELECTRICAL CONNECTION TO MOTOR INDICATED (INCLUDING DISCONNECT, STARTER, CONDUCTORS, RACEWAY, & OTHER REQUIRED HARDWARE. XX-X INDICATES EQUIPMENT TAG. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
	EMERGENCY POWER OFF BUTTON (EPO). PROVIDE WHERE INDICATED ON DRAWINGS. PROVIDE ALL REQUIRED INTERFACES AS CALLED FOR ON DRAWINGS OR REQUIRED BY EQUIPMENT MANUFACTURER.
	ELECTRICAL PANELBOARD, SURFACE MOUNTED. UNLESS OTHERWISE NOTED, INSTALL AT 72" A.F.F. TO THE TOP OF THE BOX.
	ELECTRICAL PANELBOARD, FLUSH MOUNTED. UNLESS OTHERWISE NOTED, INSTALL AT 72" A.F.F. TO THE TOP OF THE BOX.
	TYPICAL DISCONNECT (SAFETY SWITCH). REFER TO DRAWINGS FOR SIZE & ADDITIONAL FUSING REQUIREMENTS.
	TYPICAL DRY-TYPE TRANSFORMER (SIZE MIGHT VARY). UNLESS OTHERWISE NOTED, PROVIDE FLOOR MOUNTED WITH CONCRETE EQUIPMENT PAD.
	ELECTRICAL PIECE OF EQUIPMENT. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.

FIRE ALARM

	FIRE ALARM SYSTEM SMOKE SENSOR (CEILING MOUNTED) PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. (ROUND-CEILING MOUNTED, SQUARE-WALL MOUNTED). TAG 'EL' INDICATES SMOKE DETECTORS SHALL BE PROGRAMMED FOR ELEVATOR RECALL.
	FIRE ALARM SYSTEM HEAT DETECTOR. UNLESS OTHERWISE NOTED, PROVIDE COMBINATION FIXED (135°F) & RATE-OF-RISE (15" PER MINUTE) TYPE DEVICE. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	CARBON MONOXIDE DETECTOR. PROVIDE ALL REQUIRED WIRING BY SELECTED MANUFACTURER.
	FLAME DETECTOR, CEILING MOUNTED. PROVIDE ALL REQUIRED WIRING BY SELECTED MANUFACTURER. TAG INDICATES UV OR IR TECHNOLOGY.
	FIRE ALARM SYSTEM DUCT DETECTOR. PROVIDE COMPLETE INSTALLATION INCLUDING SAMPLING TUBES EXTENDING THE FULL WIDTH OF DUCT. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM REMOTE TEST STATION. PROVIDE WHERE INDICATED ON DRAWING & INTERFACE WITH DETECTION DEVICE INDICATED. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM MANUAL PULL STATION. PROVIDE COMPLETE INSTALLATION WITH PROTECTIVE COVER WHERE REQUIRED. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM BEAM DETECTOR TRANSMITTER. PROVIDE COMPLETE INSTALLATION INCLUDING REMOTE TEST STATION. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM BEAM DETECTOR RECEIVER. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM WATER FLOW SWITCH. PROVIDE COMPLETE INTERFACE BETWEEN FLOW SWITCH & FIRE ALARM CONTROL PANEL. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM TAMPER SWITCH. PROVIDE COMPLETE INTERFACE BETWEEN TAMPER SWITCH & FIRE ALARM CONTROL PANEL. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM AUDIO/VISUAL NOTIFICATION APPLIANCE (WALL MOUNTED BETWEEN 80" TO 96", INSTALL NOT CLOSER THEN 6" TO THE FINISHED CEILING). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE 15cd VISUAL DEVICE.
	FIRE ALARM SYSTEM VISUAL NOTIFICATION APPLIANCE (WALL MOUNTED BETWEEN 80" TO 96", INSTALL NOT CLOSER THEN 6" TO THE FINISHED CEILING). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE 15cd VISUAL DEVICE.
	FIRE ALARM SYSTEM AUDIO NOTIFICATION APPLIANCE (WALL MOUNTED BETWEEN 80" TO 96", INSTALL NOT CLOSER THEN 6" TO THE FINISHED CEILING). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM AUDIO/VISUAL NOTIFICATION APPLIANCE (CEILING MOUNTED). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE 75cd VISUAL DEVICE.
	FIRE ALARM SYSTEM VISUAL NOTIFICATION APPLIANCE (CEILING MOUNTED). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE 75cd VISUAL DEVICE.
	FIRE ALARM SYSTEM AUDIO NOTIFICATION APPLIANCE (CEILING MOUNTED). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM WATER FLOW ALARM INTERFACE. PROVIDE COMPLETE ELECTRICAL INTERFACE TO ALARM (PROVIDED BY SPRINKLER CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR). PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM ZONE ADDRESSABLE MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM CONTROLLABLE ZONE ADDRESSABLE MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM INDIVIDUAL ADDRESSABLE MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM FAN SHUT-DOWN RELAY. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. CONTACT RATING SHALL MATCH FAN MOTOR FEEDER RATING. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM ISOLATION MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. INSTALL EVERY 25TH INITIATING DEVICE ON SLC LOOP. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM ELECTROMAGNETIC DOOR HOLDER. VERIFY REQUIRED VOLTAGE PRIOR TO ORDERING. PROVIDE COMPLETE INTERFACE TO FACP AS REQUIRED. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	TYPICAL FIRE ALARM CONTROL PANEL. SURFACE OR FLUSH MOUNTED. PROVIDE WHERE INDICATED ON FLOOR PLANS. INSTALL APPROXIMATELY 72" A.F.F. TO TOP OF BOX. PROVIDE DEDICATED 120VAC, 20A/1P CIRCUIT & PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM NOTIFICATION APPLIANCE CONTROL PANEL (POWER SUPPLY). PROVIDE WHERE INDICATED ON FLOOR PLANS. INSTALL APPROXIMATELY 72" A.F.F. TO TOP OF BOX. PROVIDE DEDICATED 120VAC, 20A/1P CIRCUIT & PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL. PROVIDE WHERE INDICATED ON FLOOR PLANS. INSTALL APPROXIMATELY 72" A.F.F. TO TOP OF BOX. PROVIDE INTERFACE TO FACP & PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

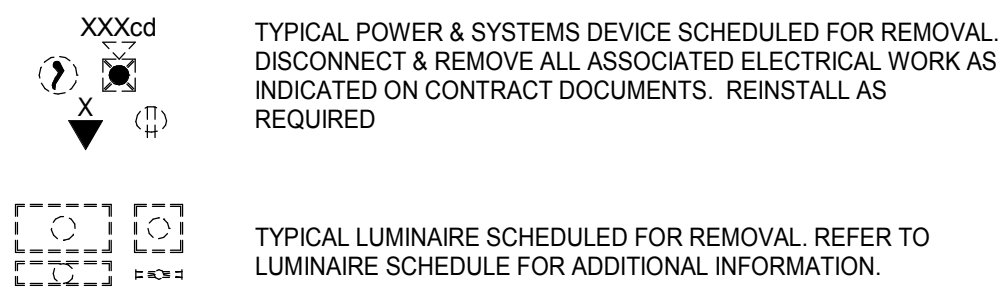
ABBREVIATIONS:

WP	INDICATES WEATHERPROOF DEVICE OR EQUIPMENT
WG	INDICATES DEVICE SHALL HAVE WIRE GUARD PROTECTION
AFG	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
(ETR)	EXISTING EQUIPMENT SHALL REMAIN IN PLACE
OC	OVER COUNTER (INSTALL 12" ABOVE COUNTER HEIGHT)
UC	UNDER COUNTER (INSTALL 18" ABOVE FINISHED FLOOR)
VNAC	VISUAL NOTIFICATION APPLIANCE CIRCUIT
ANAC	AUDIO NOTIFICATION APPLIANCE CIRCUIT
SLC	SIGNALING LINE CIRCUIT
ATS	AUTOMATIC TRANSFER SWITCH
HP	HORSEPOWER
KW	KILOWATT
KVA	KILOVOLT-AMPERES
VFD	VARIABLE FREQUENCY DRIVE
EM	EMERGENCY
NL	NIGHTLIGHT (TYPICAL FOR LIGHTING, 'ON' ALL THE TIME)
LTG	LIGHTING
CPWR	CONTINUOUS LOAD (POWER)
PWR	POWER
EH	ELECTRIC HEAT
KIT	KITCHEN EQUIPMENT
LMTR	LARGEST MOTOR
EQP	SHOP EQUIPMENT
NEC	NATIONAL ELECTRICAL CODE
MLO	MAIN LUGS ONLY
MCB	MAIN CIRCUIT BREAKER
AWG	AMERICAN WIRE GAGE

BRANCH CIRCUIT WIRING NOTES:

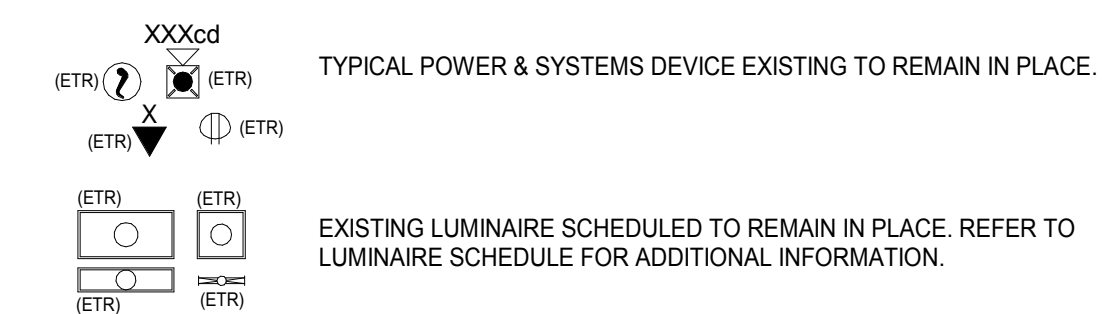
- A. UNLESS OTHERWISE NOTED, MINIMUM HOMERUN (HOMERUN SHALL BE CONSIDERED TOTAL LENGTH FROM SOURCE TO LAST DEVICE ON THE CIRCUIT) CONDUCTORS FOR 20A/1P BRANCH CIRCUITS INCLUDING LIGHTING SHALL BE AS FOLLOWS:
- 1-100FT - #12 AWG
 - 101-150FT - #10 AWG
 - 151-250FT - #8 AWG
 - 251-400FT - #6 AWG.
 - 401 & LONGER - #4 AWG.
- REDUCE CONDUCTORS SIZE TO A MAXIMUM CONDUCTOR SIZE THAT THE LOAD TERMINALS CAN ACCOMMODATE. REDUCED SIZE NOT LONGER THAN ONE FOOT. INCREASE RACEWAY SIZE AS NEEDED PER NEC, FOR THE LARGER SIZES OF CONDUCTORS.

REMOVAL (TYPICAL FOR ALL DEVICES):



REMOVAL NOTES:
NOT ALL DEVICES SCHEDULED FOR REMOVAL ARE SHOWN ON THIS SCHEDULE. ALL DEVICES TO BE REMOVED ARE MARKED WITH THE SAME LINETYPE & LINE WEIGHT AS SYMBOLS ABOVE. REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION.

EXISTING TO REMAIN (TYPICAL FOR ALL DEVICES):



EXISTING TO REMAIN NOTES:
NOT ALL EXISTING DEVICES SCHEDULED TO REMAIN ARE SHOWN ON THIS SCHEDULE. ALL DEVICES SCHEDULED TO REMAIN ARE MARKED WITH THE SAME LINETYPE & LINE WEIGHT AS SYMBOLS ABOVE. REFER TO FLOOR PLAN DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL NOTES: (FOR ALL DRAWINGS)

- A. THE DRAWINGS ARE DIAGRAMMATIC & INDICATE GENERALLY THE LOCATIONS OF THE MATERIAL & EQUIPMENT. THESE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE.
- B. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION & OPERATION, SHALL BE INCLUDED IN THE CONTRACTOR'S BID, THE SAME AS IF HEREIN SPECIFIED OR SHOWN.
- C. ALL MATERIAL & INSTALLATION SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE NATIONAL ELECTRIC CODE, LATEST EDITION OF LOCAL CODES, & ORDINANCES.
- D. ALL CONDUITS ON EXPOSED WORK SHALL BE RUN AT RIGHT ANGLES TO, & PARALLEL WITH, THE SURROUNDING WALL & SHALL CONFORM TO THE FORM OF THE CEILING. DIAGONAL RUNS WILL NOT BE ALLOWED. BENDS IN PARALLEL CONDUIT RUNS SHALL BE CONCENTRIC. ALL CONDUIT SHALL RUN PERFECTLY STRAIGHT & TRUE.
- E. ALL CONDUIT RUNS ARE TO BE CONCEALED IN WALLS, CEILINGS, EXPOSED CONDUIT SHALL ONLY BE INSTALLED WHERE MEANS OF CONCEALING DOES NOT EXIST. CONTRACTOR IS TO NOTIFY ENGINEER & GET OWNERS APPROVAL PRIOR TO RUNNING EXPOSED CONDUITS.
- F. INTERIOR RECEPTACLE & LIGHT FIXTURE BRANCH CIRCUITS SHALL BE IN EMT CONDUIT. A MAXIMUM OF (3) CIRCUITS CAN BE GROUPED TOGETHER IN A HOMERUN CONDUIT. EACH CIRCUIT SHALL HAVE SEPARATE NEUTRAL. GROUPING OF NEUTRALS SHALL NOT BE ACCEPTABLE. EACH CIRCUIT SHALL ALSO HAVE A GROUND WIRE SIZED PER NEC. USING CONDUIT, OR MC CABLE AS GROUND PATH SHALL NOT BE ACCEPTABLE. CABLE MUST BE SUPPORTED PER NEC, GROUPING OF GROUND WIRES ((1) GROUND PER (3) CIRCUITS) IS ACCEPTABLE. MAXIMUM 6' LENGTH OF MC CABLE ALLOWED FOR A WHIP CONNECTION TO LUMINAIRE ONLY. EXTERIOR (OUTDOOR) RECEPTACLE & LIGHT FIXTURE BRANCH CIRCUITS SHALL BE IN RMC CONDUIT OR AS PERMITTED IN THE SPECIFICATIONS.
- G. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED COSTS FOR SEALING ALL PENETRATIONS THROUGH FIRE & SMOKE WALLS USING UL APPROVED SEALANT & METHODS.
- H. UNLESS OTHERWISE NOTED, PROVIDE ALL NEW RACEWAYS. USE SURFACE RACEWAY ONLY WHERE INDICATED ON THE PLANS. IF CONTRACTOR INTENDS TO UTILIZE SURFACE RACEWAY IN AREAS OTHER THOSE INDICATED ON PLANS, PRIOR APPROVAL IS REQUIRED FROM ENGINEER & OWNER.
- I. CONTRACTOR MAY REUSE EXISTING CONCEALED CONDUIT UNLESS OTHERWISE NOTED ON THE PLANS.
- J. ALL RECEWAYS CROSSING BUILDING EXPANSION JOINTS SHALL BE EQUIPPED WITH EXPANSION FITTINGS.
- K. CONTRACTOR SHALL PROVIDE INFORMATION LABELS ON JUNCTION BOXES LABELS SHALL BE PHENALIC TYPE WITH BLACK BACKGROUND & WHITE ENGRAVED LETTERING. LABEL SHALL INDICATED CIRCUIT/FEEDER SOURCE & EQUIPMENT ID NAME.

GENERAL SYMBOLS NOTE:

THIS SYMBOLS & ABBREVIATIONS SCHEDULE IS FOR THE ELECTRICAL CONTRACTOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS SCHEDULE DOES NOT IMPLY INCLUSION AND /OR EXCLUSION OF ANY PARTICULAR ITEM FROM THE PROJECT.



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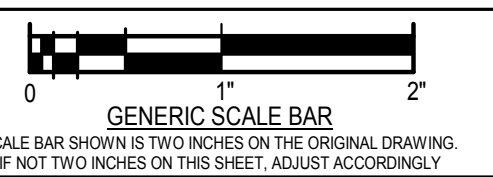
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DWG TITLE

SYMBOLS AND
ABBREVIATIONS



DATE 07/05/2019
SCALE 12" = 1'-0"
DWN CDW CHK. JUR
PROJ. No. 307663
DWG. No.

E-001



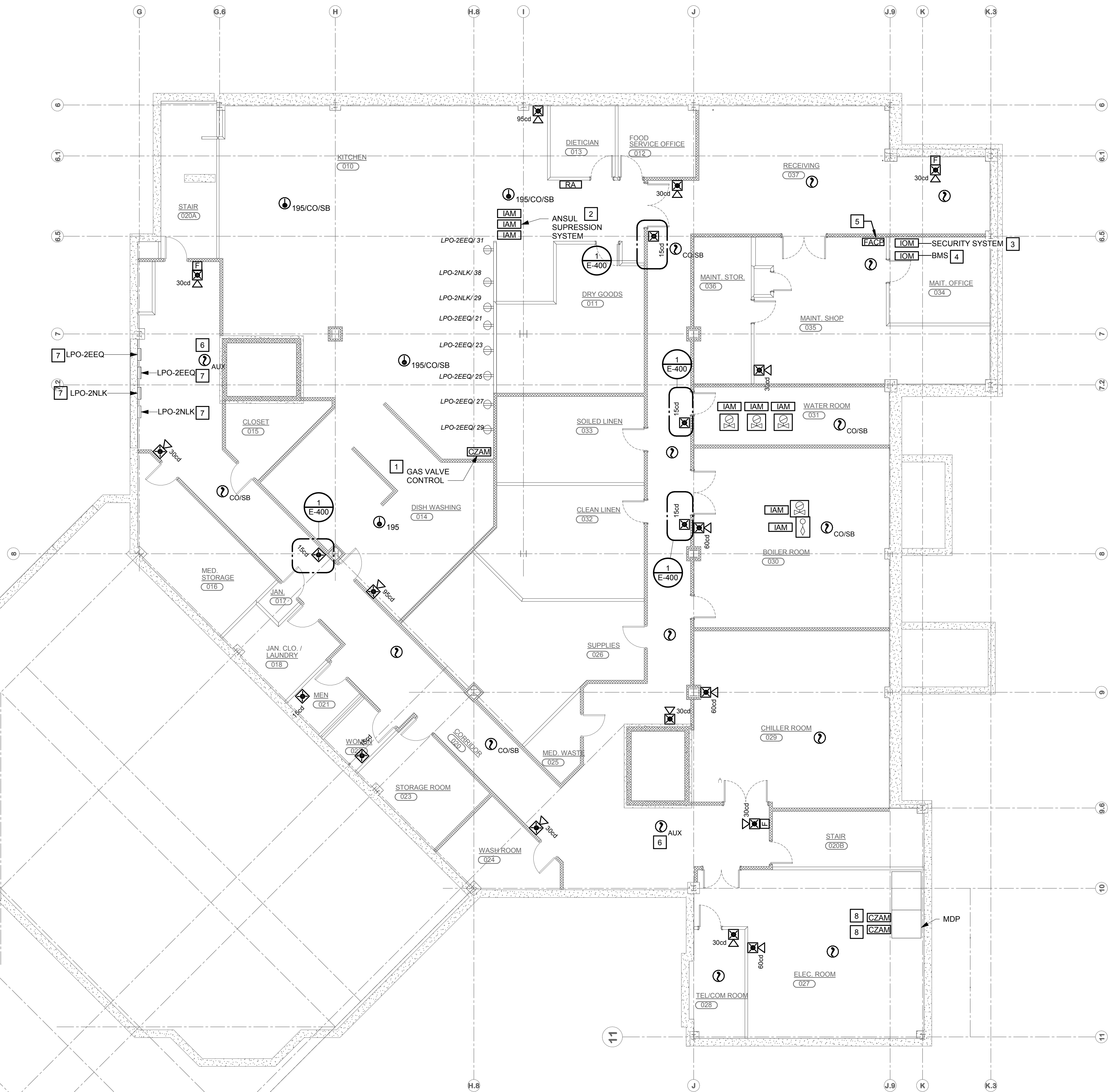
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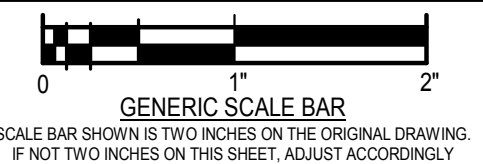
CONSTRUCTION NOTES:

1. PROVIDE FIRE ALARM CONTROLLED RELAY TO INTERRUPT EXISTING 120 VOLT GAS POWER UPON ACTIVATION OF FIRE ALARM SYSTEM.
2. PROVIDE (3) ADDRESSABLE INPUT MODULES TO MONITOR ANSUL HOOD SYSTEM, ALARM, TROUBLE AND SUPERVISORY.
3. PROVIDE ADDRESSABLE OUTPUT MODULE TO SECURITY SYSTEM INPUT. UTILIZE EXISTING CONNECTION POINT AND EXTEND AS REQUIRED.
4. PROVIDE ADDRESSABLE OUTPUT MODULE TO BMS SYSTEM INPUT. UTILIZE EXISTING CONNECTION POINT AND EXTEND AS REQUIRED.
5. UTILIZE EXISTING EMERGENCY BRANCH FROM EXISTING FIRE ALARM SYSTEM TO POWER NEW. EXTEND BRANCH CONNECT BRANCH CIRCUIT AS REQUIRED. PROVIDE 2# 12 1 #12EG IN 3/4" CONDUIT.
6. PROGRAM DETECTORS FOR ELEVATOR RECALL FUNCTIONS.
7. PROVIDE 24 VDC SIGNAL FROM FIRE ALARM SYSTEM TO SHUNT TRIP BREAKERS UPON INITIATION OF SUPPRESSION SYSTEM ALARM.
8. PROVIDE 24 VDC SIGNAL FROM FIRE ALARM SYSTEM TO SHUNT TRIP ELEVATOR BREAKERS. BREAKERS SHALL BE ACTIVATED UPON INITIATION OF HEAT DETECTOR IN ELEVATOR MACHINE ROOM.

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DWG. TITLE
BASEMENT - NEW WORK - AREA "B"



DATE 07/05/2019
SCALE 1/8" = 1'-0"
DWN CDW CHK. JUR
PROJ. No. 307663
DWG. No.

1 BASEMENT - NEW WORK - AREA "B"
1/8" = 1'-0"





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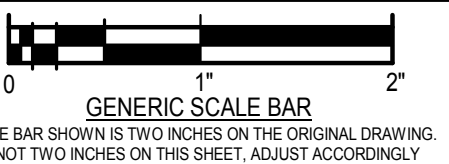
CONSTRUCTION NOTES:

1. UTILIZE EXISTING DOOR HOLDERS AND EXTEND 24VDC AND FIRE ALARM SYSTEM CONTROL AS REQUIRED.
2. CONNECT FIRE ALARM INPUT ADDRESSABLE MODULE TO EXISTING DOOR ACCESS CONTROLLER TO MONITOR IF THE DOOR HAS BEEN BREACHED. EXTEND SECURITY SYSTEM WIRING AS REQUIRED. OPENING OF DOOR WITH OUT DEPRESSING ADJACENT GREEN BUTTON WILL SOUND LOCAL ALARM AND SHOW UP AS A TROUBLE ON THE FIRE ALARM SYSTEM AND REMOTE ANNUNCIATORS.
3. PROVIDE FIRE ALARM INPUT ADDRESSABLE MODULE FOR FUTURE SECURITY/ACCESS CONTROL DOOR.

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DWG TITLE
FIRST FLOOR - NEW WORK - AREA "A"



DATE 07/05/2019
SCALE 1/8" = 1'-0"
DWN CDW CHK. JUR
PROJ. No. 307663
DWG. No.

1 FIRST FLOOR - NEW WORK - AREA "A"
1/8" = 1'-0"





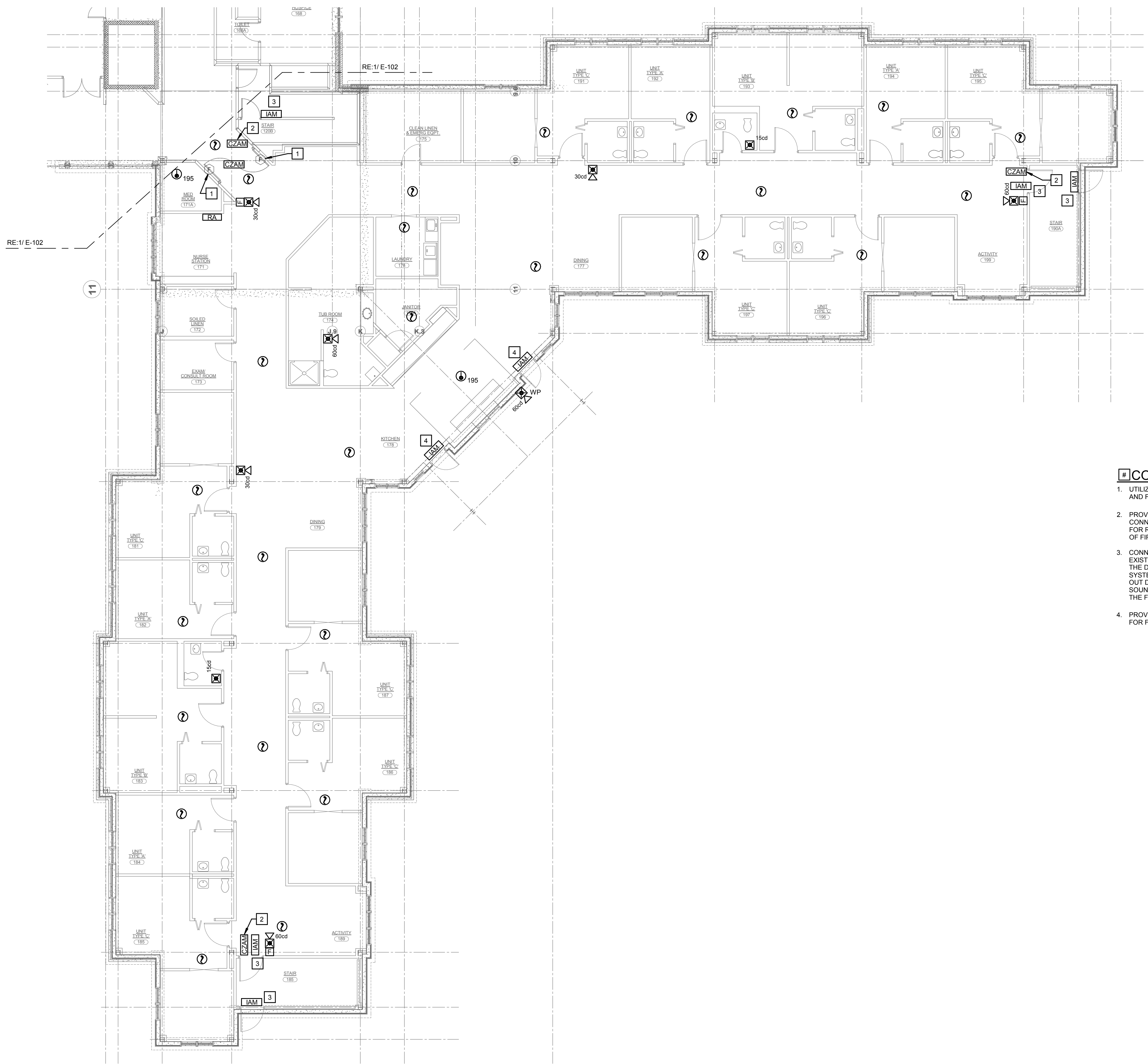
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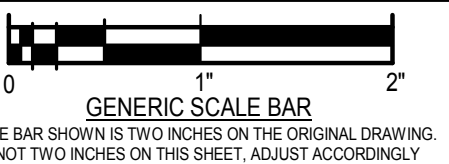
CONSTRUCTION NOTES:

1. UTILIZE EXISTING DOOR HOLDERS AND EXTEND 24VDC AND FIRE ALARM SYSTEM CONTROL AS REQUIRED.
2. PROVIDE CONTROLABLE ADDRESSABLE MODULE FOR CONNECTION TO WANDERGUARD DOOR CONTROLLER FOR RELEASE OF DOOR MAGLOCK UPON ACTIVATION OF FIRE ALARM SYSTEM
3. CONNECT FIRE ALARM INPUT ADDRESSABLE MODULE TO EXISTING DOOR ACCESS CONTROLLER TO MONITOR IF THE DOOR HAS BEEN BREACHED. EXTEND SECURITY SYSTEM WIRING AS REQUIRED. OPENING OF DOOR WITH OUT DEPRESSING ADJACENT GREEN BUTTON WILL SOUND LOCAL ALARM AND SHOW UP AS A TROUBLE ON THE FIRE ALARM SYSTEM AND REMOTE ANNUNCIATORS.
4. PROVIDE FIRE ALARM INPUT ADDRESSABLE MODULE FOR FUTURE SECURITY/ACCESS CONTROL DOOR.

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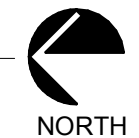
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DWG. TITLE
FIRST FLOOR - NEW WORK - AREA "C"



DATE 07/05/2019
SCALE 1/8" = 1'-0"
DWN CDW CHK. JUR
PROJ. No. 307663
DWG. No.

1 FIRST FLOOR - NEW WORK - AREA "C"
1/8" = 1'-0"





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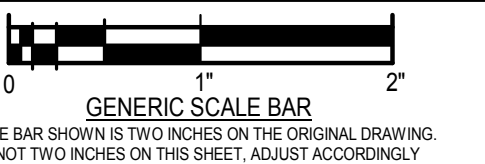
CONSTRUCTION NOTES:

1. UTILIZE EXISTING DOOR HOLDERS AND EXTEND 24VDC AND FIRE ALARM SYSTEM CONTROL AS REQUIRED.
2. CONNECT FIRE ALARM INPUT ADDRESSABLE MODULE TO EXISTING DOOR ACCESS CONTROLLER TO MONITOR IF THE DOOR HAS BEEN BREACHED. EXTEND SECURITY SYSTEM WIRING AS REQUIRED. OPENING OF DOOR WITH OUT DEPRESSING ADJACENT GREEN BUTTON WILL SOUND LOCAL ALARM AND SHOW UP AS A TROUBLE ON THE FIRE ALARM SYSTEM AND REMOTE ANNUNCIATORS.
3. PROVIDE FIRE ALARM INPUT ADDRESSABLE MODULE FOR FUTURE SECURITY/ACCESS CONTROL DOOR.

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DWG. TITLE
SECOND FLOOR - NEW WORK - AREA "A"



DATE 07/05/2019
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DWN CDW CHK. JUR
PROJ. No. 307663
DWG. No.

1 SECOND FLOOR - NEW WORK - AREA "A"
1/8" = 1'-0"





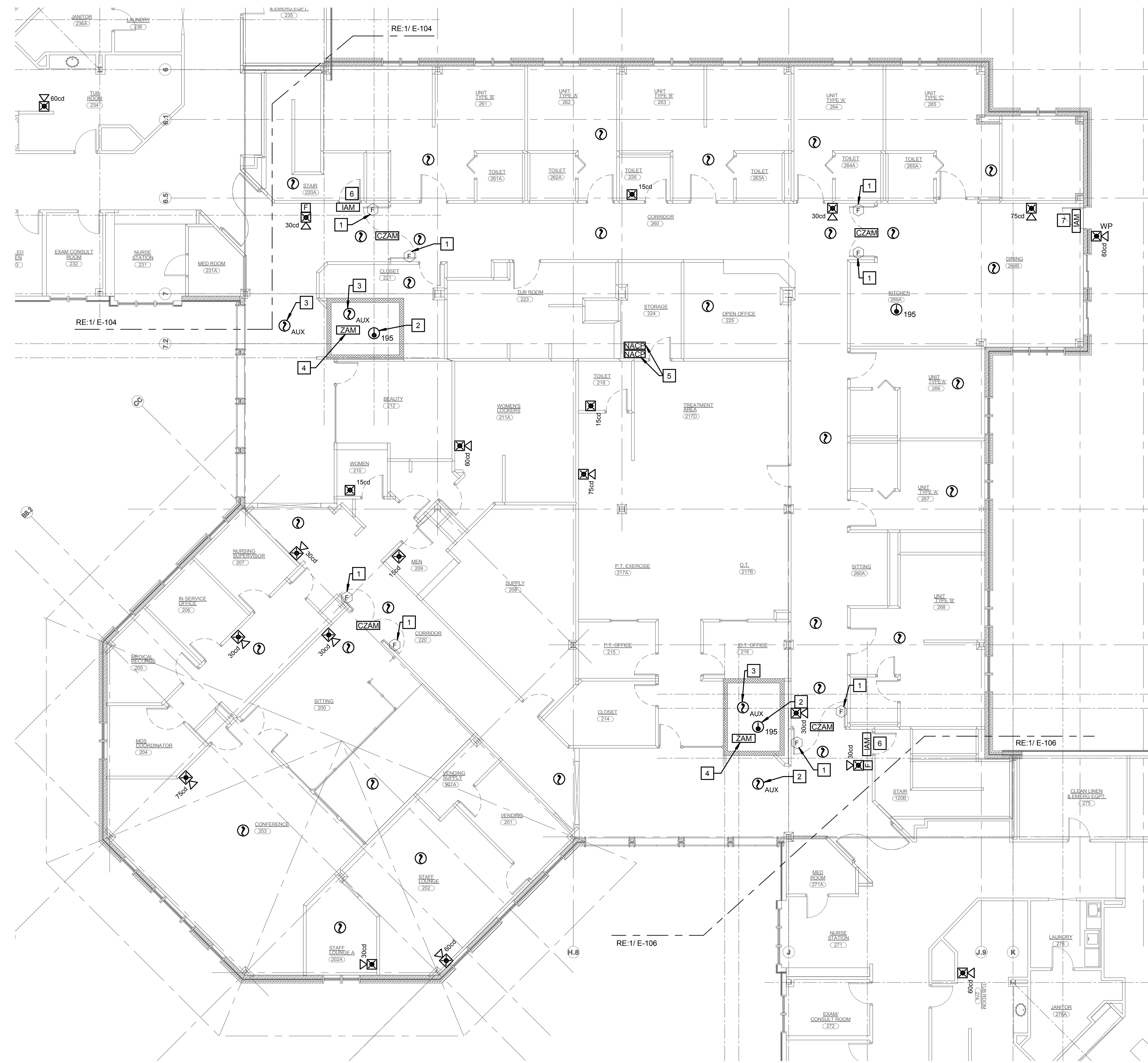
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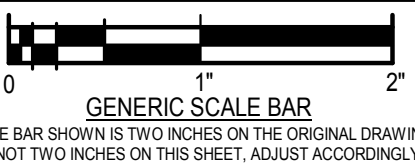
CONSTRUCTION NOTES:

1. UTILIZE EXISTING DOOR HOLDERS AND EXTEND 24VDC AND FIRE ALARM SYSTEM CONTROL AS REQUIRED.
2. INITIATION OF HEAT DETECTOR IN ELEVATOR MACHINE ROOM SHALL SHORT TRIP ELEVATOR FEEDER BREAKER IN MAIN DISTRIBUTION PANEL IN BASEMENT.
3. SMOKE DETECTOR SHALL INITIATE ELEVATOR RECALL FUNCTION FOR ASSOCIATED ELEVATOR.
4. SMOKE DETECTOR IN ELEVATOR SHAFT SHALL OPERATE ELEVATOR SHAFT SMOKE HATCH. THE EXISTING SMOKE HATCH RELEASE SOLENOID CIRCUIT TO CONTROLLABLE ADDRESSABLE MODULE.
5. LOCATION OF EXISTING EMERGENCY BRANCH CIRCUIT FOR NOTIFICATION APPLIANCE CIRCUIT PANEL. EXTEND BRANCH CIRCUIT TO NEW EQUIPMENT AS REQUIRED. PROVIDE 2#12 & #12EG IN 3/4" C.
6. CONNECT FIRE ALARM INPUT ADDRESSABLE MODULE TO EXISTING DOOR ACCESS CONTROLLER TO MONITOR IF THE DOOR HAS BEEN BREACHED. EXTEND SECURITY SYSTEM WIRING AS REQUIRED. OPENING OF DOOR WITH OUT DEPRESSING ADJACENT GREEN BUTTON WILL SOUND LOCAL ALARM AND SHOW UP AS A TROUBLE ON THE FIRE ALARM SYSTEM AND REMOTE ANNUNCIATORS.
7. PROVIDE FIRE ALARM INPUT ADDRESSABLE MODULE FOR FUTURE SECURITY/ACCESS CONTROL DOOR.

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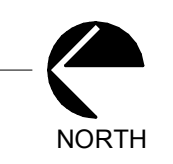
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DWG TITLE
SECOND FLOOR - NEW WORK - AREA "B"



DATE 07/05/2019
SCALE 1/8" = 1'-0"
DWN CDW CHK. JUR
PROJ. No. 307663
DWG. No.

1 SECOND FLOOR - NEW WORK - AREA "B"
1/8" = 1'-0"



E-105



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CONSTRUCTION NOTES:

1. UTILIZE EXISTING DOOR HOLDERS AND EXTEND 24VDC AND FIRE ALARM SYSTEM CONTROL AS REQUIRED.
2. CONNECT FIRE ALARM INPUT ADDRESSABLE MODULE TO EXISTING DOOR ACCESS CONTROLLER TO MONITOR IF THE DOOR HAS BEEN BREACHED. EXTEND SECURITY SYSTEM WIRING AS REQUIRED. OPENING OF DOOR WITH OUT DEPRESSING ADJACENT GREEN BUTTON WILL SOUND LOCAL ALARM AND SHOW UP AS A TROUBLE ON THE FIRE ALARM SYSTEM AND REMOTE ANNUNCIATORS.
3. PROVIDE FIRE ALARM INPUT ADDRESSABLE MODULE FOR FUTURE SECURITY/ACCESS CONTROL DOOR.

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DWG TITLE
SECOND FLOOR - NEW WORK - AREA "C"



GENERIC SCALE BAR
SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING.
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DATE 07/05/2019
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DWG. No.

1 SECOND FLOOR - NEW WORK - AREA "C"
1/8" = 1'-0"





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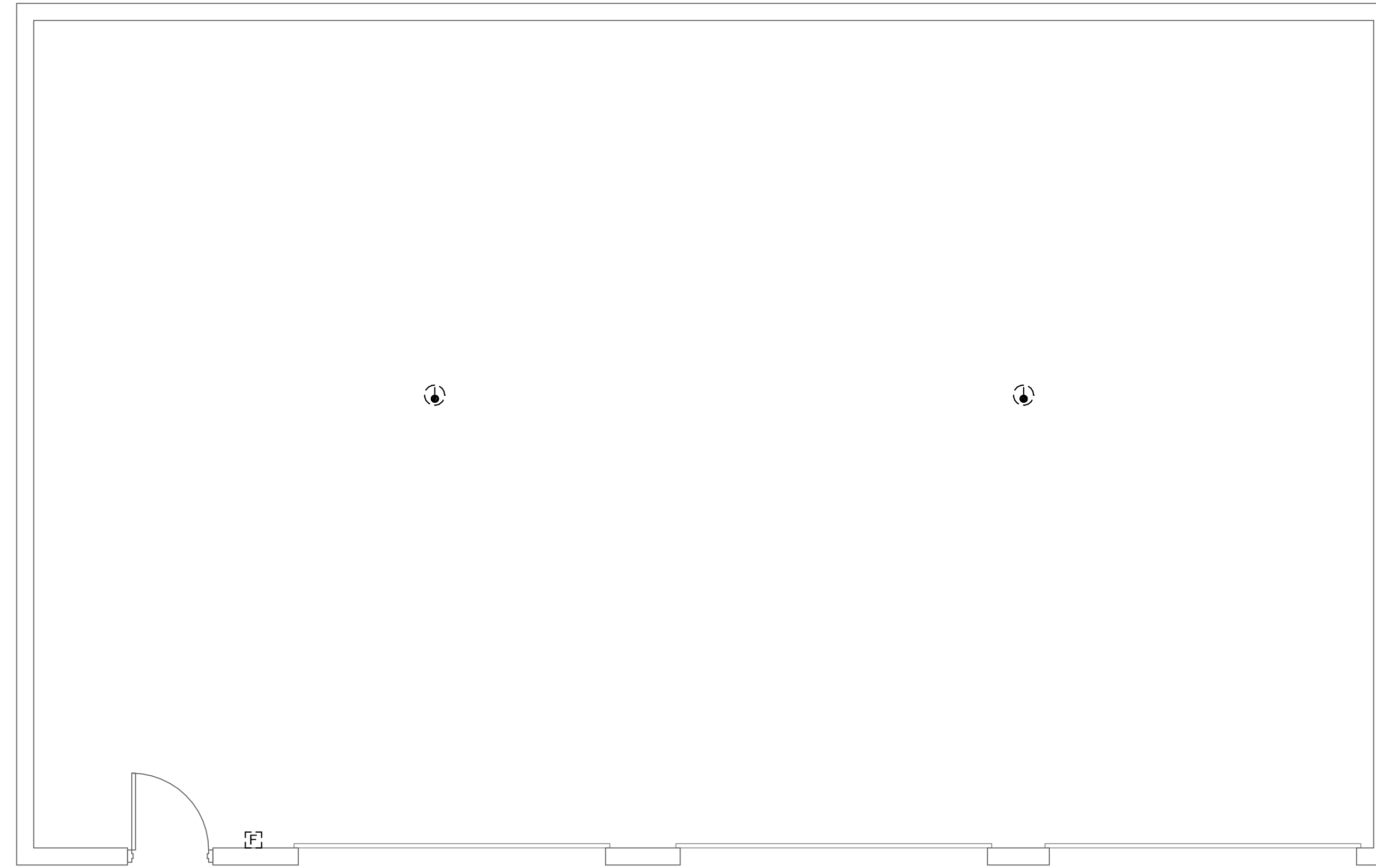
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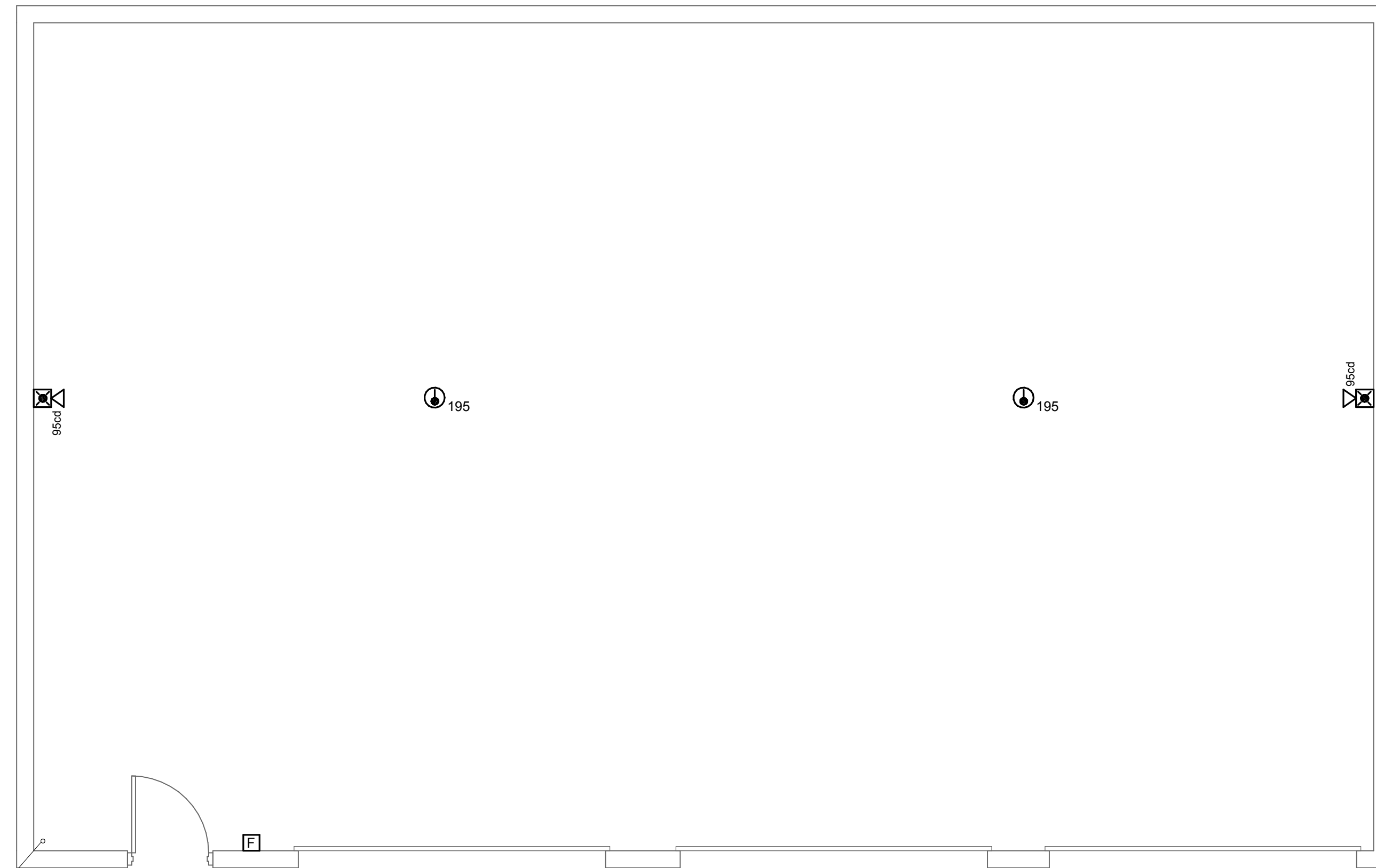
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GENERAL DEMOLITION NOTES:

- A. MAINTAIN INTEGRITY OF EXISTING CIRCUIT WIRING PRESENTLY INSTALLED AND SERVING EQUIPMENT OUTSIDE THE WORK AREA. VERIFY ROUTE OF EACH FEEDER AND BRANCH CIRCUIT SCHEDULED FOR REMOVAL.
- B. PROVIDE PROTECTION FOR ALL EXISTING CONSTRUCTION SYSTEMS/EQUIPMENT SCHEDULED TO REMAIN DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OR RECONDITIONING OF EQUIPMENT/ITEMS DAMAGED DURING REMOVALS.
- C. FIRE ALARM AND SECURITY SYSTEMS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. PROVIDE TEMPORARY WIRING AS REQUIRED TO MAINTAIN FIRE ALARM SYSTEM DETECTION/NOTIFICATION THROUGHOUT CONSTRUCTION PHASE AND OPERATION OF SECURITY SYSTEM. NOTIFY OWNER OF AREAS TO BE SHUTDOWN WHILE WORK IS BEING PERFORMED. FIRE ALARM AND SECURITY SYSTEMS SHALL BE FULLY OPERATIONAL AT END OF EACH WORK DAY. CONTRACTOR SHALL NOTE LEAVE ANY AREAS WITHOUT FIRE ALARM SYSTEM BEING FULLY FUNCTIONAL AND SECURITY SYSTEM FULLY OPERATIONAL.
- D. UNLESS OTHERWISE NOTED, DISCONNECT AND REMOVE ALL ELECTRICAL WORK ASSOCIATED WITH DEVICE/FIXTURE SCHEDULED FOR REMOVAL. ASSOCIATED ELECTRICAL WORK SHALL INCLUDE BUT NOT LIMITED TO CONDUCTORS, CONDUIT, BOXES, CONNECTORS, HANGERS, CONTROL EQUIPMENT, ETC. BACK TO SOURCE PANEL.
- E. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ELECTRICAL DEVICES AND MISC. ITEMS AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR ANY COST ASSOCIATED WITH DISPOSAL.
- F. DEMOLITION SHOWN SHALL BE SELECTIVE. UNLESS OTHERWISE INDICATED ON THE PLAN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF DISCREPANCIES FOUND IN THE FIELD PRIOR TO DEMOLITION OF ANY ITEMS NOT SHOWN. CONTRACTOR SHALL, AT HIS EXPENSE, REPLACE OR REPAIR ANY DEMOLISHED ITEM(S) THAT WERE NOT CALLED FOR ON THE PLANS OR BROUGHT TO ENGINEERS ATTENTION.



① MAINTENACE GARAGE - REMOVALS
1/4" = 1'-0"



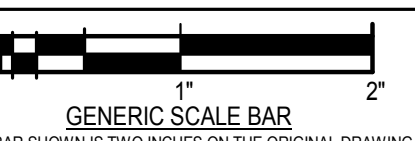
② MAINTENANCE GARAGE - NEW WORK
1/4" = 1'-0"

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DWG. TITLE

**MAINTENANCE BUILDING -
NEW WORK - REMOVALS**



GENERIC SCALE BAR
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DATE 07/05/2019

SCALE As indicated

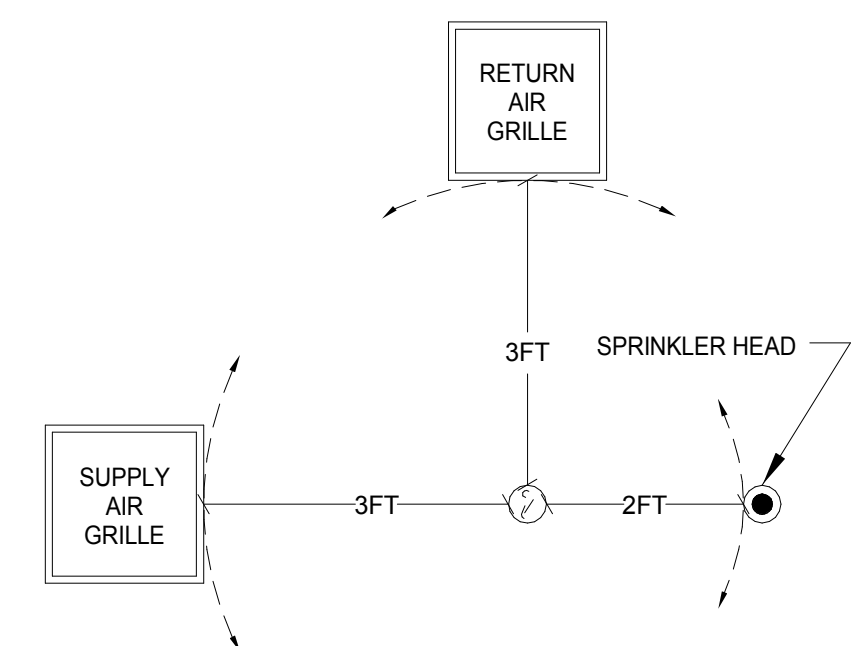
DWN MLH CHK. JUR

PROJ. No. 307663

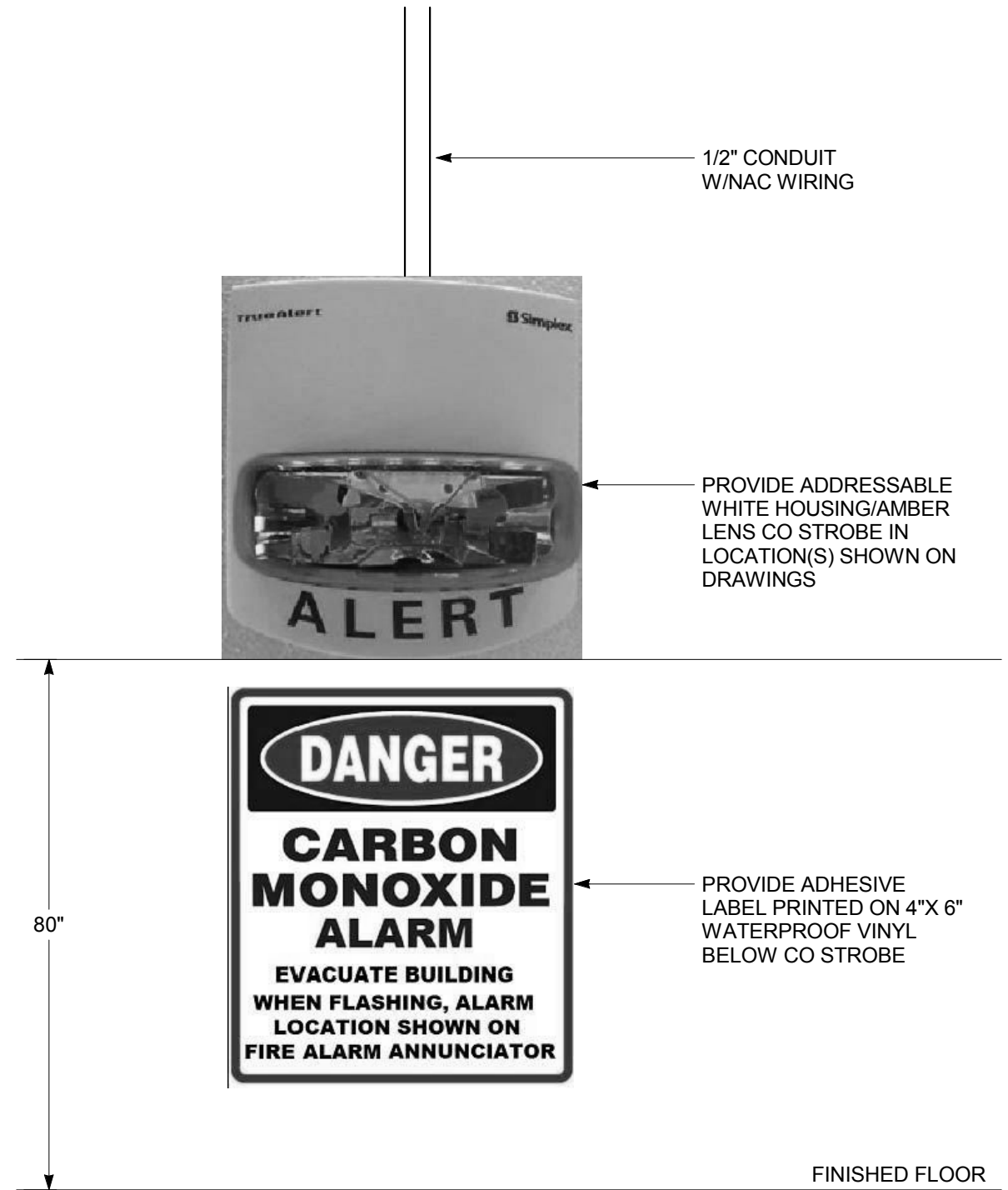
DWG. No.

FIRE ALARM SYSTEM SEQUENCE OF OPERATION INPUT/OUTPUT MATRIX	SYSTEM OUTPUTS																									
	FACU ANNUNCIATION										NOTIFICATION										REQUIRED FIRE SAFETY CONTROL					
SYSTEM INPUTS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	
1 FIRE ALARM SYSTEM AC POWER FAILURE																										
2 FIRE ALARM SYSTEM LOW BATTERY																										
3 OPEN CIRCUIT																										
4 GROUND FAULT																										
5 NOTIFICATION APPLIANCE CIRCUIT SHORT																										
6 MANUAL PULL STATIONS																										
7 CORRIDOR SMOKE DETECTORS																										
8 AREA SMOKE DETECTORS																										
9 HVAC AIR DUCT DETECTORS																										
10 AREA HEAT DETECTORS																										
11 HOOD OR ROOM FIRE SUPPRESSION SYSTEM ALARM																										
12 SPRINKLER TAMPER SWITCH																										
13 SPRINKLER WATER FLOW SWITCH																										
14 SPRINKLER WATER FLOW IN ELEV EQUIP RM OR HOISTWAY																										
15 ELEV EQUIP RM AREA SMOKE DETECTOR																										
16 ELEV HOISTWAY & ELEV EQUIP RM HEAT DETECTORS																										
17 ELEV LOBBY SMOKE DETECTORS - UPPER FLOORS																										
18 ELEV LOBBY SMOKE DETECTOR - RECALL FLOOR																										
19 ELEV CONTROLLER POWER SHUNT TRIP STATUS																										
20 CO DETECTOR																										
21																										
22																										
23																										
24																										
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26																										
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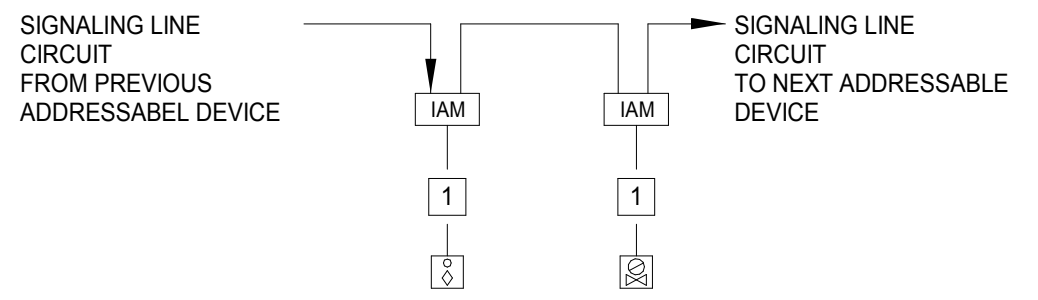
5 FIRE ALARM SYSTEM INPUT OUTPUT MATRIX
SCALE: NONE



4 SMOKE DETECTOR MINIMUM CLEARANCES
SCALE: NONE

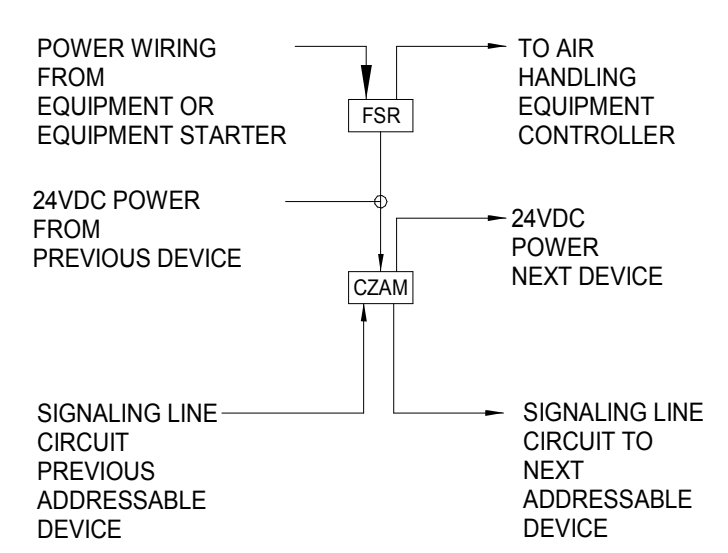


1 CO NOTIFICATION DEVICE
1/8" = 1'-0"



NOTES:
1. (1) NON DATA CONDUCTORS - (2) #14 AWG IN FLEXIBLE METAL RACEWAY.

2 TYPICAL SPRINKLER SYSTEM INTERFACE WIRING SCHEMATIC
SCALE: NONE



3 TYPICAL FAN SHUTDOWN RELAY WIRING DIAGRAM
SCALE: NONE



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DWG. TITLE

DETAILS



SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY.

DATE 07/05/2019
SCALE As indicated
DWN CDW CHK. JUR
PROJ. No. 307663
DWG. No.

E-400



CATTARAUGUS COUNTY

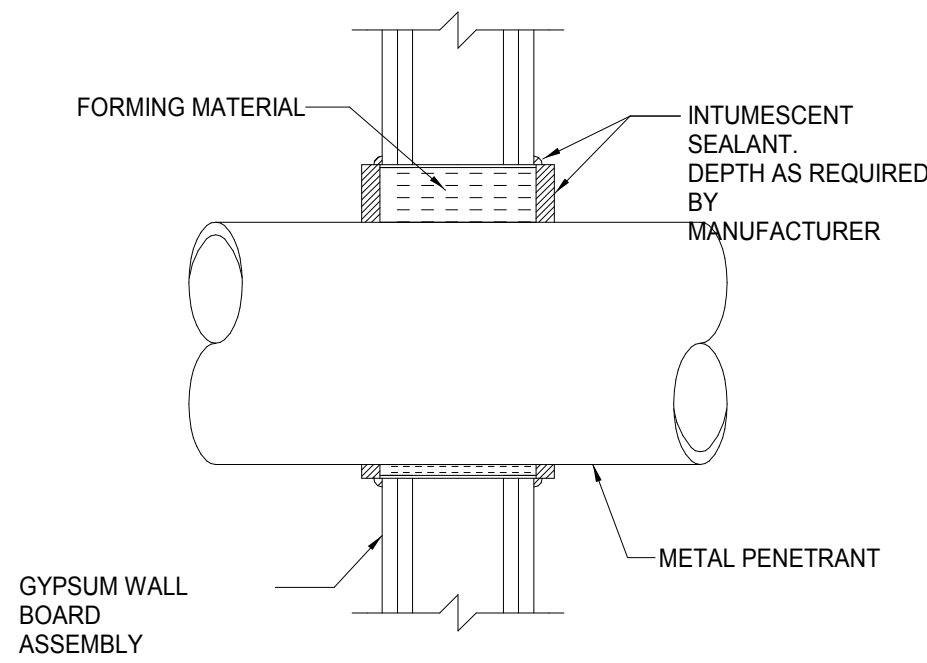
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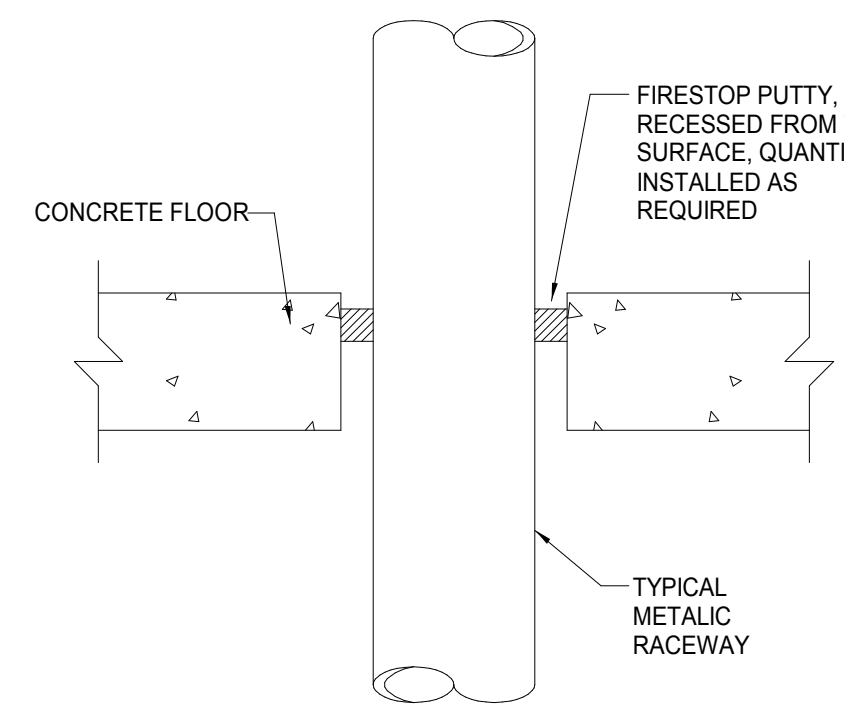
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STUD WALL PENETRATION

* REFER TO UL FIRE RESISTANCE DIRECTORY FOR COMPLETE INSTALLATION REQUIREMENTS

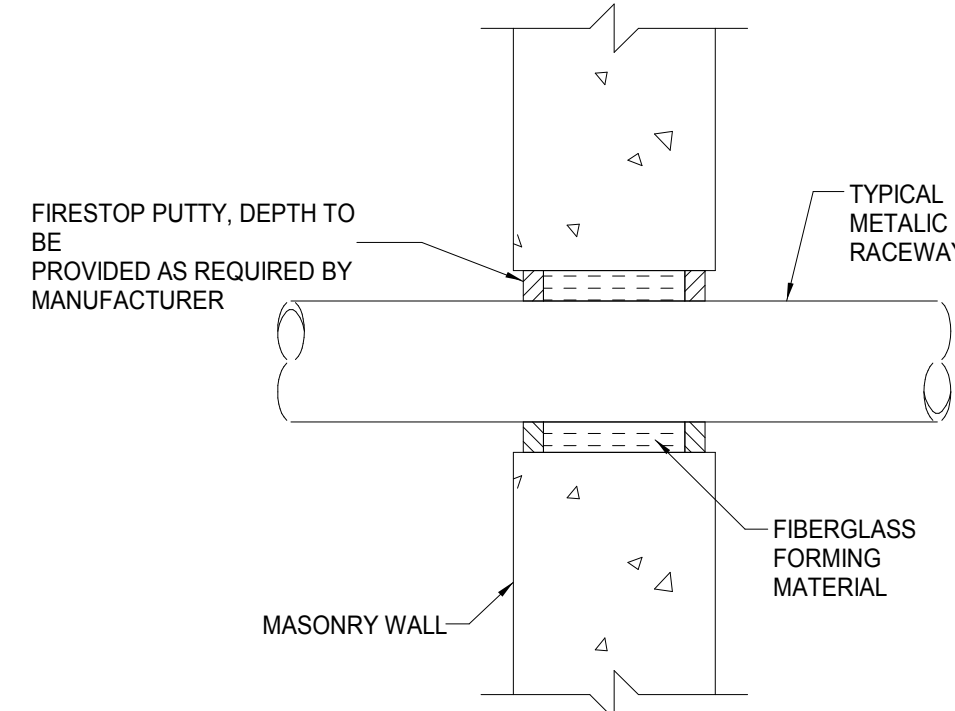
1 **UL SYSTEM W-L-1079*
STUD WALL PENETRATION DETAIL**
SCALE: NONE



CONCRETE FLOOR PENETRATION

* REFER TO UL FIRE RESISTANCE DIRECTORY FOR COMPLETE INSTALLATION REQUIREMENTS

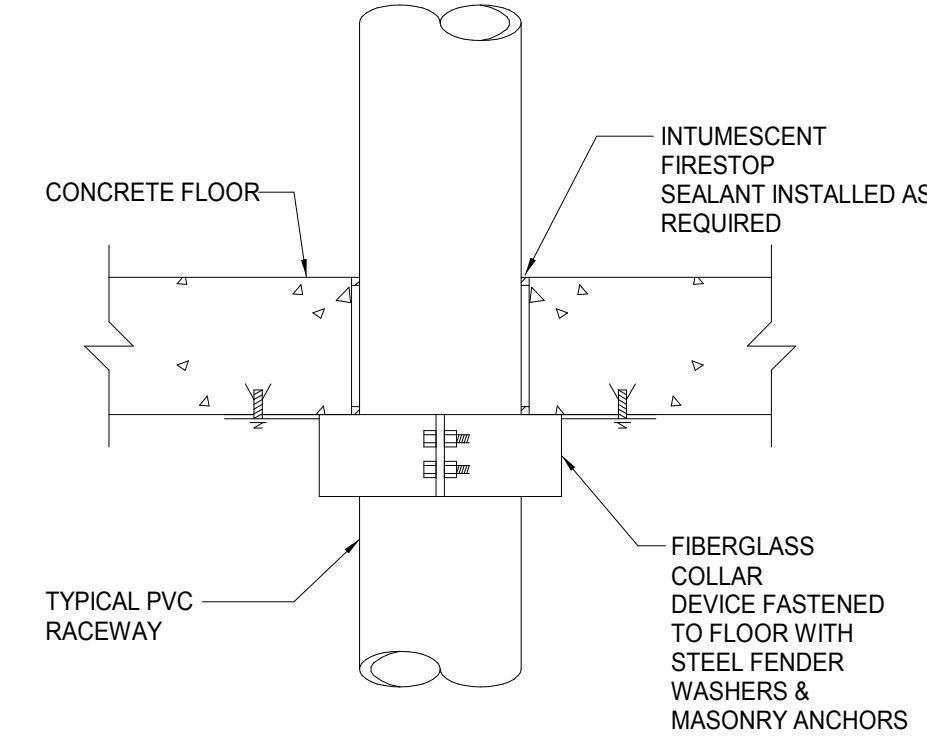
2 **UL SYSTEM C-AJ-1090*
CONCRETE FLOOR PENETRATION DETAIL**
SCALE: NONE



CONCRETE WALL PENETRATION

* REFER TO UL FIRE RESISTANCE DIRECTORY FOR COMPLETE INSTALLATION REQUIREMENTS

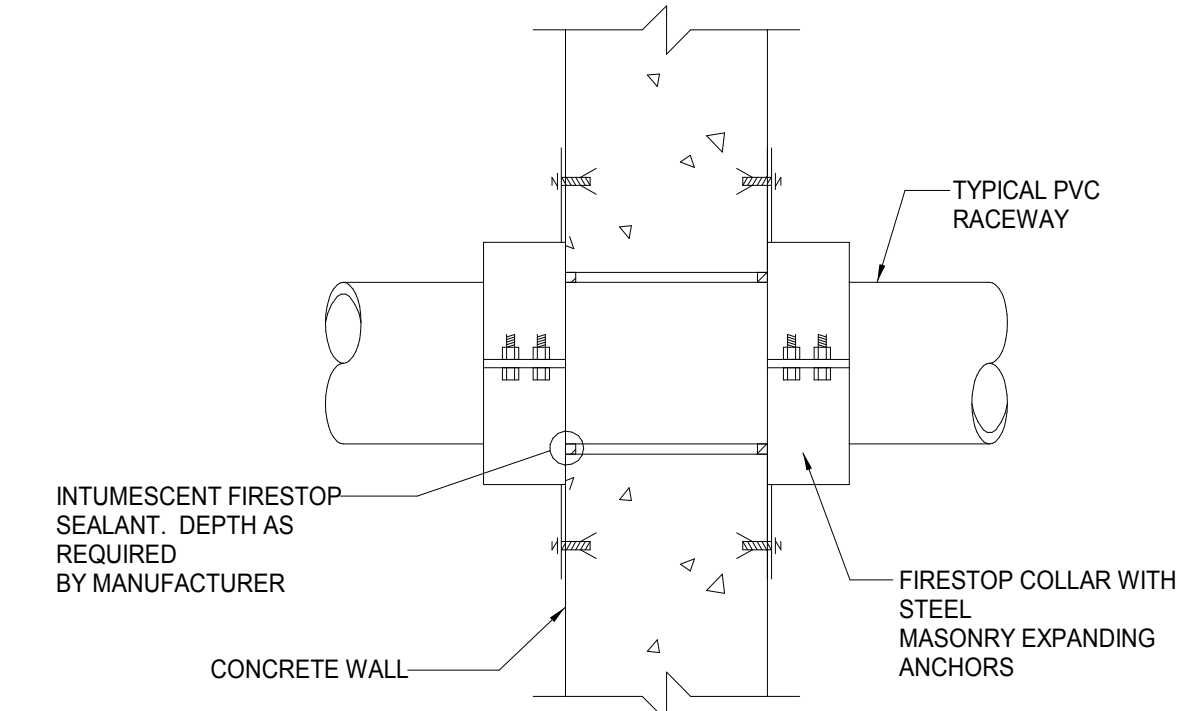
3 **UL SYSTEM CA-J-1090*
CONCRETE WALL PENETRATION DETAIL**
SCALE: NONE



CONCRETE FLOOR PENETRATION

* REFER TO UL FIRE RESISTANCE DIRECTORY FOR COMPLETE INSTALLATION REQUIREMENTS

4 **UL SYSTEM C-AJ-2038*
CONCRETE FLOOR PENETRATION DETAIL**
SCALE: NONE



CONCRETE WALL PENETRATION

* REFER TO UL FIRE RESISTANCE DIRECTORY FOR COMPLETE INSTALLATION REQUIREMENTS

5 **UL SYSTEM C-AJ-2038*
CONCRETE WALL PENETRATION DETAIL**
SCALE: NONE

THROUGH PENETRATION FIRESTOP SCHEDULE						
<ul style="list-style-type: none"> THIS SCHEDULE IDENTIFIES REQUIREMENTS FOR ACCEPTABLE THROUGH PENETRATION FIRESTOPS FOR THIS PROJECT BASED ON BARRIER TYPE, BASIS OF BARRIER CONSTRUCTION, AND PENETRANT TYPE. THROUGH PENETRATION FIRESTOPS ARE NOT REQUIRED FOR FLOOR PENETRATIONS CONTAINED TOTALLY WITHIN A RATED SHAFT ENCLOSURE. NOMENCLATURE OF UL CLASSIFIED FIRESTOP ASSEMBLIES USED IN THE CONTRACT DOCUMENTS IS IDENTICAL TO THAT USED IN CATALOGS OF APPROVED FIRESTOP MANUFACTURERS AND IN UNDERWRITERS LABORATORIES "FIRE RESISTANCE DIRECTORY". 						
RATED BARRIER			PENETRANT TYPE			
TYPE	BASIS OF CONSTRUCTION	FIRESTOP ASSEMBLY REQUIREMENTS	METALLIC CONDUIT	NONMETALLIC CONDUIT	ELECTRICAL BOXES	
WALL	METAL STUDS & GYPSUM WALLBOARD (U400 SERIES)	UL CLASSIFIED SERIES	SINGLE PENETRANT	UL # W-L-1079 DETAIL #8	N/A	CEYY OR CLIV
			MULTIPLE PENETRANTS			N/A
		EXCEPTIONS/ ADDED REQUIREMENTS		NOTE 1	N/A	NOTE 1 & 2
WALL	POURED CONCRETE, CONCRETE BLOCK OR MASONRY (BLOCK & U900 SERIES) (ANY THICKNESS)	UL CLASSIFIED SERIES	SINGLE PENETRANT	UL # C-AJ-1090 DETAIL #10	UL # C-AJ-2038 DETAIL #12	CEYY
			MULTIPLE PENETRANTS			N/A
		EXCEPTIONS/ ADDED REQUIREMENTS		NOTE 1	NOTE 1	NONE
FLOOR	POURED CONCRETE (ANY THICKNESS)	UL CLASSIFIED SERIES	SINGLE PENETRANT	UL # C-AJ-1090 DETAIL #9	UL # C-AJ-2038 DETAIL #11	CEYY
			MULTIPLE PENETRANTS			N/A

- NOTES:
- OPENINGS ACCOMODATING NONCOMBUSTIBLE CONDUITS THROUGH SINGLE MEMBRANES WHICH ARE PART OF A FIRE RESISTANCE RATED WALL ASSEMBLY ARE PERMITTED WHEN:
 - AGGREGATE AREA OF THE MEMBRANE OPENINGS DO NOT EXCEED 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL AREA.
 - CLASSIFIED TPFS ASSEMBLY IS NOT REQUIRED AT ELECTRICAL BOXES WHEN ALL THE FOLLOWING CONDITIONS ARE MET:
 - ELECTRICAL BOX IS STEEL AND UL LISTED.
 - AREA OF INDIVIDUAL BOX DOES NOT EXCEED 16 SQUARE INCHES.
 - OUTLET BOXES ON OPPOSITE SIDES OF THE WALL ARE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES.

- GENERAL NOTES:
- CONTRACTOR SHALL GIVE OWNER 24 HOURS NOTICE OF ANY AND ALL PENETRATIONS PROVIDED, SO THAT OWNER CAN OBSERVE THE INSTALLATION OF THE PENETRATION AND FIRSTOPPING PROVIDED. WORK SHALL THEN BE SIGNED OFF BY OWNER.

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DETAILS



GENERIC SCALE BAR
SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY.

DATE 07/05/2019
SCALE 12" = 1'-0"
DWN CDW CHK. JUR
PROJ. No. 307663
DWG. No.

E-401



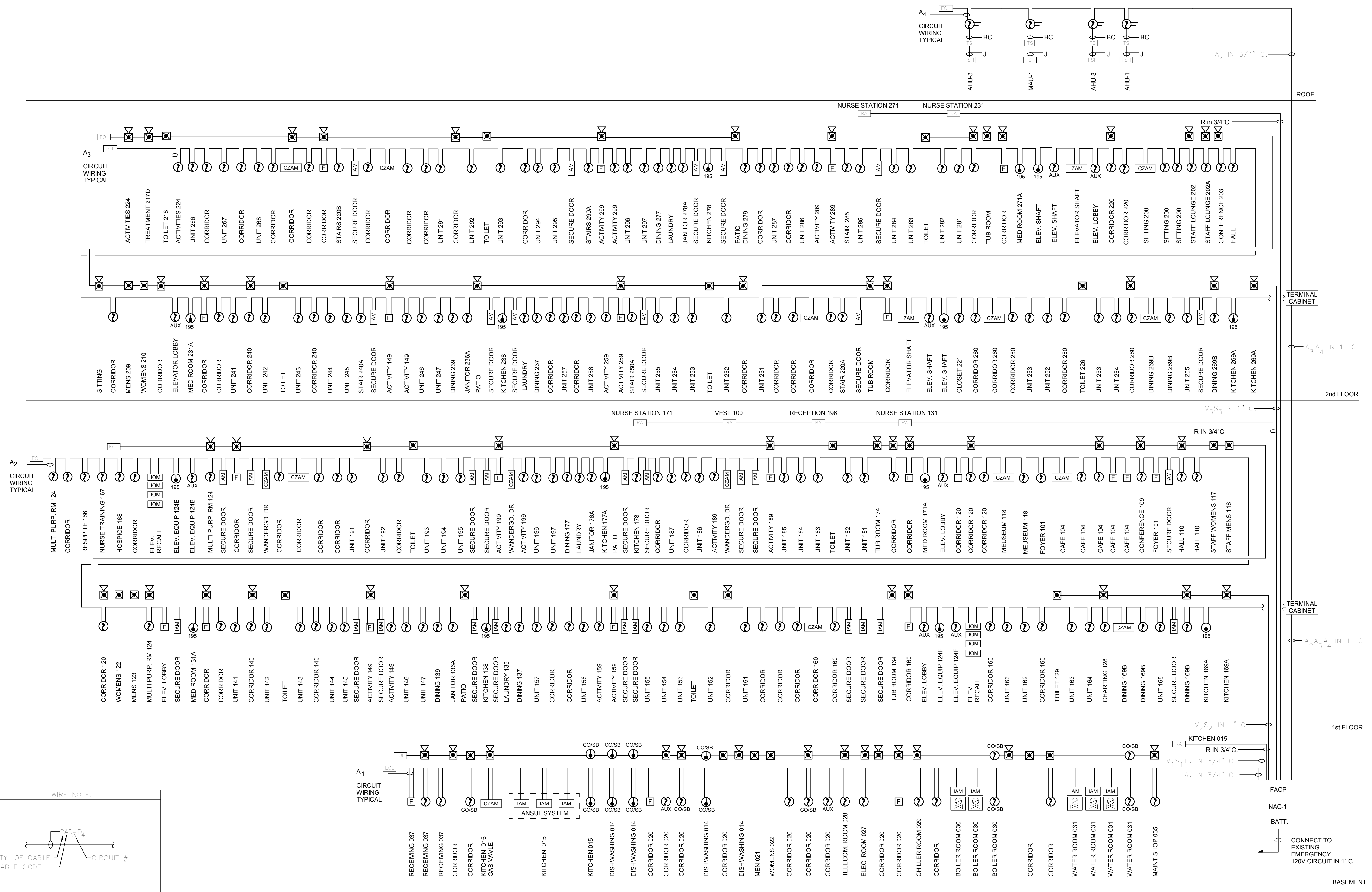
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WIRING LEGEND

CODE	WIRING	CIRCUIT
A	1-TSP 18AWG	IDNET
B	2-14AWG WIRES	24VDC POWER
C	2-14AWG WIRES	ZONE
D	2-12AWG WIRES	VISUAL CIRCUIT
S	1-TSP 18AWG	AUDIO CIRCUIT
T	1-TSP 18AWG	TEMPORAL 4 CIRCUIT
J	2-14AWG WIRES	FAN SHUTDOWN RELAY
R	3-SP18ga.CABLES & 2-12ga.WIRES	REMOTE PANELS

WIRING NOTE:

QTY. OF CABLE
CABLE CODE

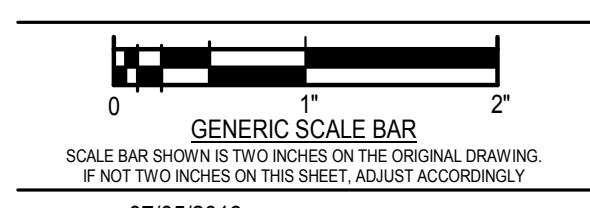
- GENERAL NOTES:**
- REFER TO FLOOR PLANS FOR DEVICE QUANTITIES AND LOCATIONS.
 - PROVIDE CIRCUIT QUANTITIES PER FLOOR AS INDICATED ON RISER DIAGRAM.
 - "T" TAPPING OR SPLICING OF CIRCUIT WIRING IS PROHIBITED.
 - ALL CIRCUIT WIRING SHALL BE INSTALLED IN CONDUIT.
 - PROVIDE ANY REQUIRED PROGRAMMING UPGRADES TO EXISTING NOTIFIER FIBER OPTIC NETWORK INTERFACE NION PANEL.
 - ALL FIRE ALARM DEVICES SHALL BE NEW. FIRE ALARM SYSTEM SHALL BE COMPLETELY RE WIRED TO FACILITATE NEW CONSTRUCTION WORK.

1 ONE-LINE DIAGRAM - FIRE ALARM
SCALE: NONE

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FIRE ALARM ONE LINE DIAGRAM



DATE 07/05/2019
SCALE SCALE: NONE
DWN CDW CHK. JUR
PROJ. No. 307663
DWG. No.

E-600