

VICINITY MAP

CITY OF YONKERS REHABILITATION OF THE ELEVATOR AT THE WILL BRANCH OF THE YONKERS PUBLIC LIBRARY 1500 CENTRAL PARK AVE., YONKERS, NY

LIST OF DRAWINGS:

DWG. #	DESCRIPTION
GENERAL	
T-001	COVER SHEET
CONV -100	CONVEY SYSTEM - DEMOLITION
CONV -101	CONVEY SYSTEM - INSTALLATION
ARCHITECTURAL	
A-101	LOWER FLOOR PLAN
A-102	SCHEDULES AND DETAILS
A-103	DOOR SCHEDULE AND DETAILS
ELECTRICAL	
E-001	GENERAL NOTES & SYMBOLS
E-101	LOWER FLOOR PLAN
E-102	LOWER FLOOR PLAN - POWER
E-103	LOWER FLOOR PLAN - LTG
E-200	RISER DIAGRAMS

LIST OF DRAWINGS (CONT.)

DWG. #	DESCRIPTION
FIRE ALARM	
FA-001	FIRE ALARM GENERAL NOTES
FA-101	LOWER FLOOR FIRE ALARM PLAN
MECHANICAL	
M-001	GENERAL NOTES, LEGEND, SYMBOLS & SCHEDULE
M-101	PARTIAL LOWER FLOOR PLAN & DETAILS
M-102	MEZZANINE & ROOF FLOOR PLAN
PLUMBING	
P-101	PLUMBING - DRAIN PLAN
P-102	PLUMBING DETAILS
FIRE PROTECTION	
FP-101	NOTES, LEGEND, SCHEDULES & PARTIAL LOWER FLOOR FLOOR SPRINKLER PLAN
FP-102	SPRINKLER RISER

No.	Revision	Date	By
0	BID SUBMISSION	06/29/2022	JDL

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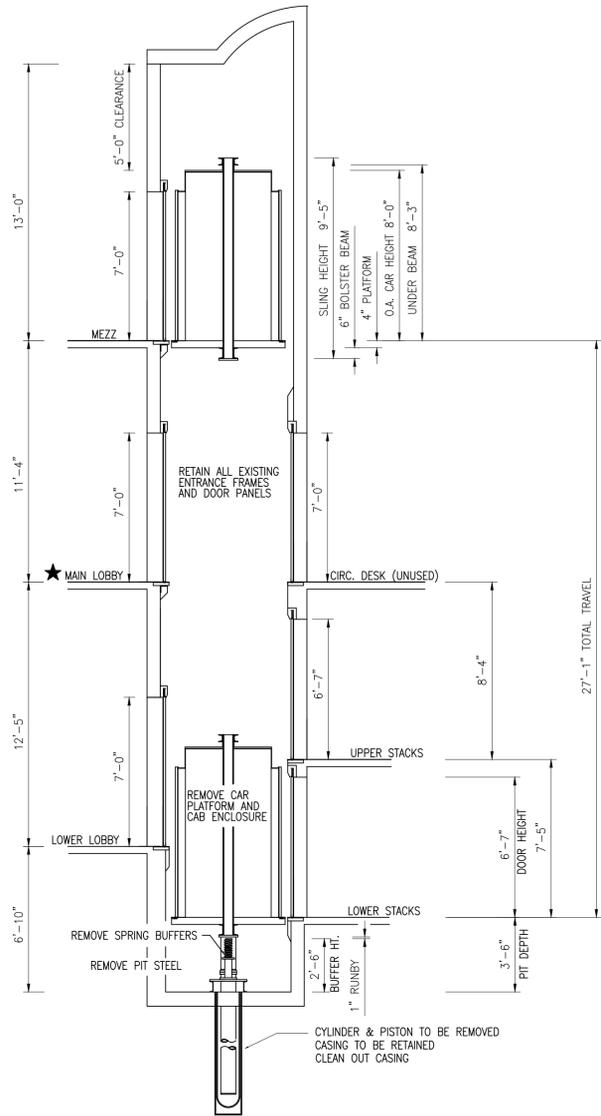
Project WILL LIBRARY OF THE YONKERS PUBLIC LIBRARY ELEVATOR REHABILITATION 1500 CENTRAL PARK AVE., YONKERS, NY

Drawing Title
COVER SHEET

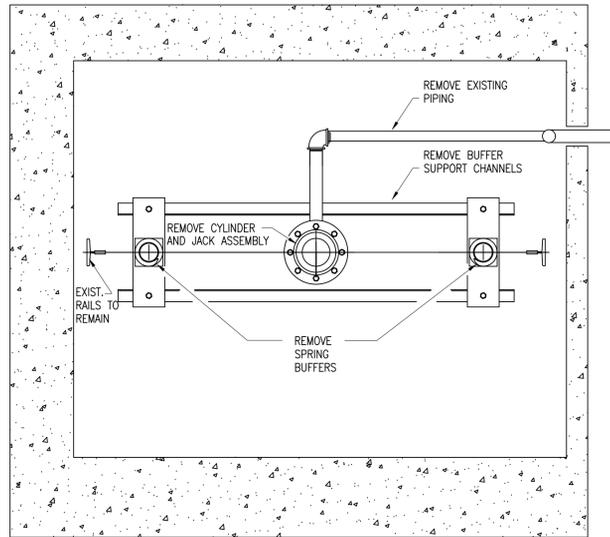
Date	Scale	Designed By	Drawn By	Checked By
06/29/2022	AS SHOWN	ERF	OO	MP

Seal Project No. MNY-2200036.00

Drawing No. T-001



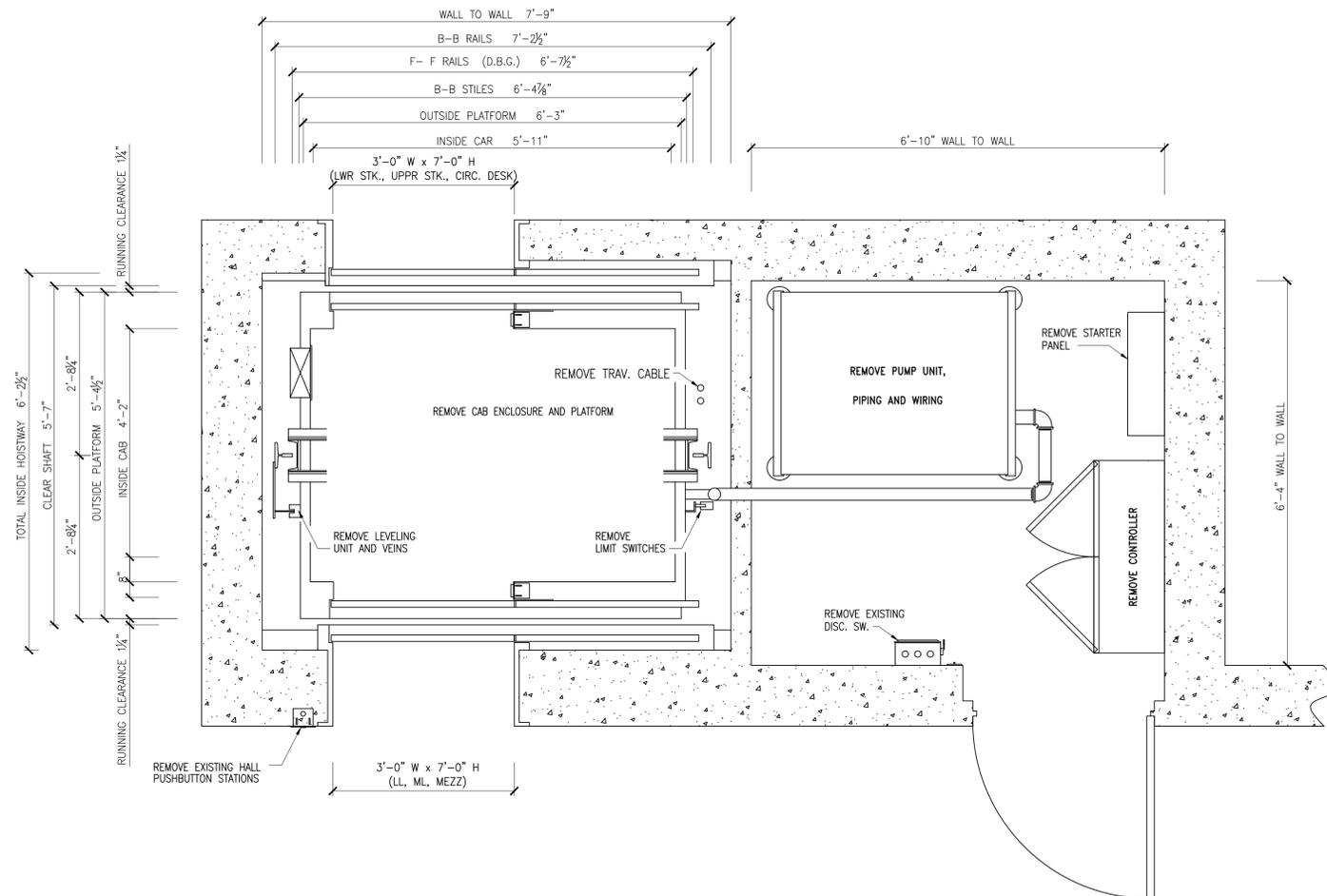
1 ELEVATOR SHAFT ELEVATION
CONV-100 SCALE: 1/4"=1'-0"



2 ELEVATOR PIT PLAN
CONV-100 SCALE: 3/4"=1'-0"

GENERAL DEMOLITION NOTES:

1. CONTRACTOR TO COMPLY WITH ALL OSHA, STATE, LOCAL AND NYC SAFETY RULES AND REGULATIONS.
2. CONTRACTOR TO PROVIDE PROTECTION OF ALL EQUIPMENT IN THIS AREA DURING DEMOLITION.
3. ALL MATERIAL BEING REMOVED SHALL BE PROPERLY AND LEGALLY DISPOSED OFF SITE.
4. CONTRACTOR TO BROOM CLEAN WORK AREA AND EQUIPMENT DAILY.
5. PROVIDE 25 LB FIRE EXTINGUISHERS APPROVED FOR 'A', 'B', AND 'C' TYPE FIRES, TO BE LOCATED AT THE ENTRY/EXIT POINTS TO THE SITE. FIRE EXTINGUISHERS ARE TO REMAIN IN WORKING ORDER ON THE FLOORS WHEN CONTRACTING WORK IS IN PROGRESS.
6. DEMOLITION AND REMOVAL OPERATION SHALL NOT UNDERMINE THE STRUCTURAL INTEGRITY OF THE BUILDING.
7. SEE DEMOLITION AND SAFETY REQUIREMENTS SPECIFICATION.



3 HOISTWAY AND MACHINE ROOM PLAN
CONV-100 SCALE: 3/4"=1'-0"

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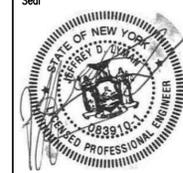
Drawing Title
CONVEY SYSTEM --
DEMOLITION

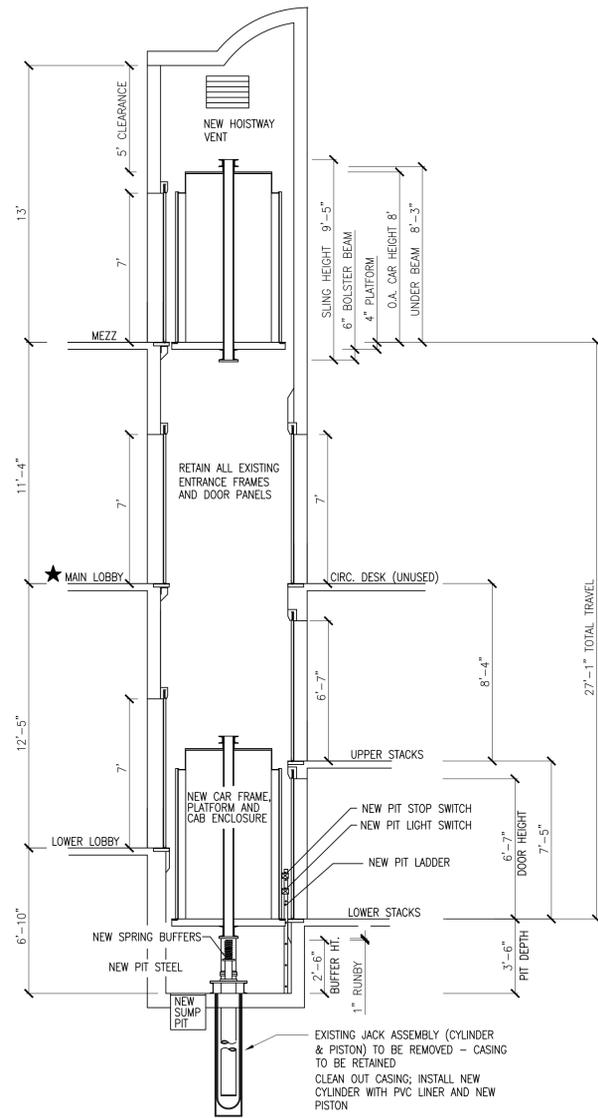
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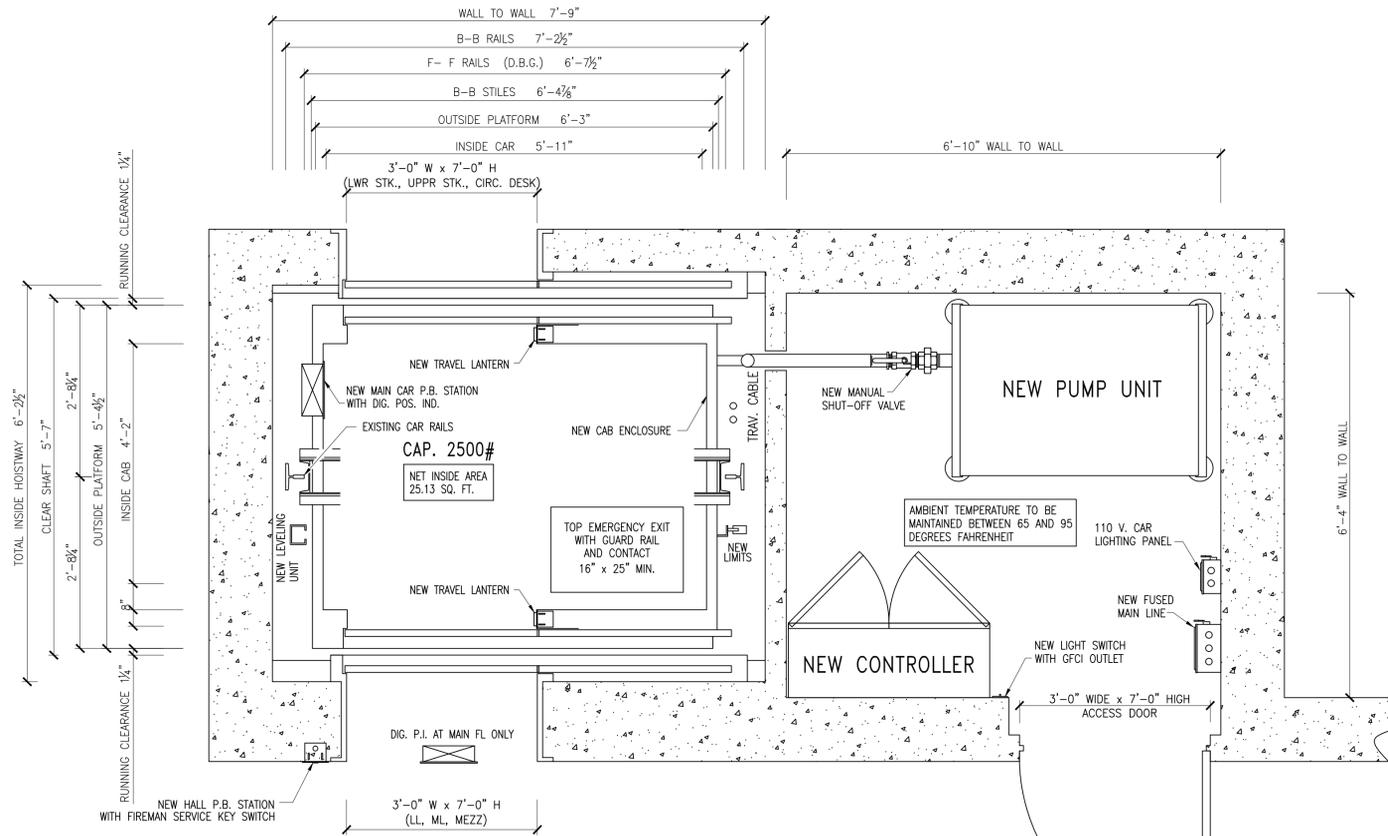
Drawing No.
CONV-100

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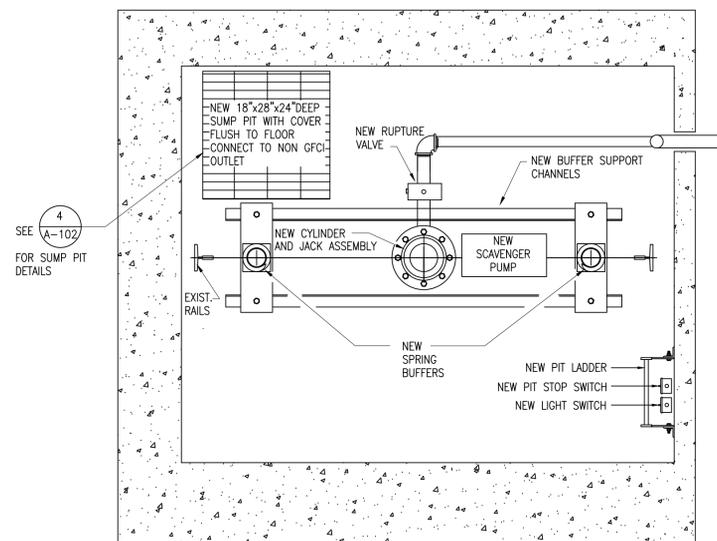




1 ELEVATOR SHAFT ELEVATION
CONV-101 SCALE: 1/4"=1'-0"



3 HOISTWAY AND MACHINE ROOM PLAN
CONV-101 SCALE: 3/4"=1'-0"



2 ELEVATOR PIT PLAN
CONV-101 SCALE: 3/4"=1'-0"

INSTALLATION NOTE

1. SEE M-001 GENERAL NOTES.

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Drawing Title
CONVEY SYSTEM --
INSTALLATION

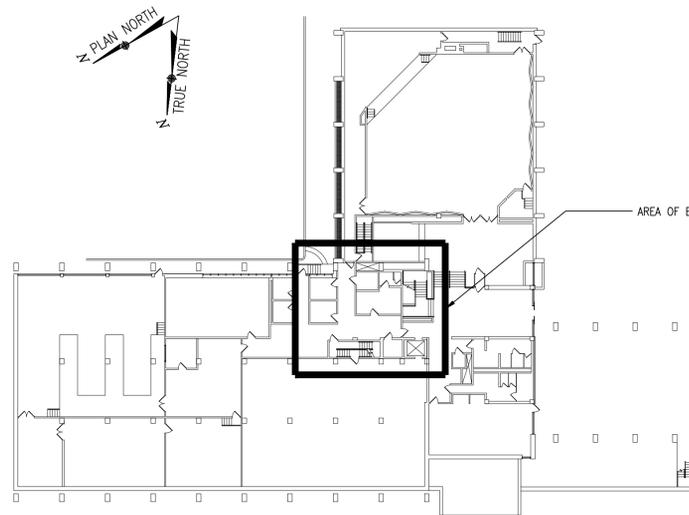
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Drawing No.
CONV-101

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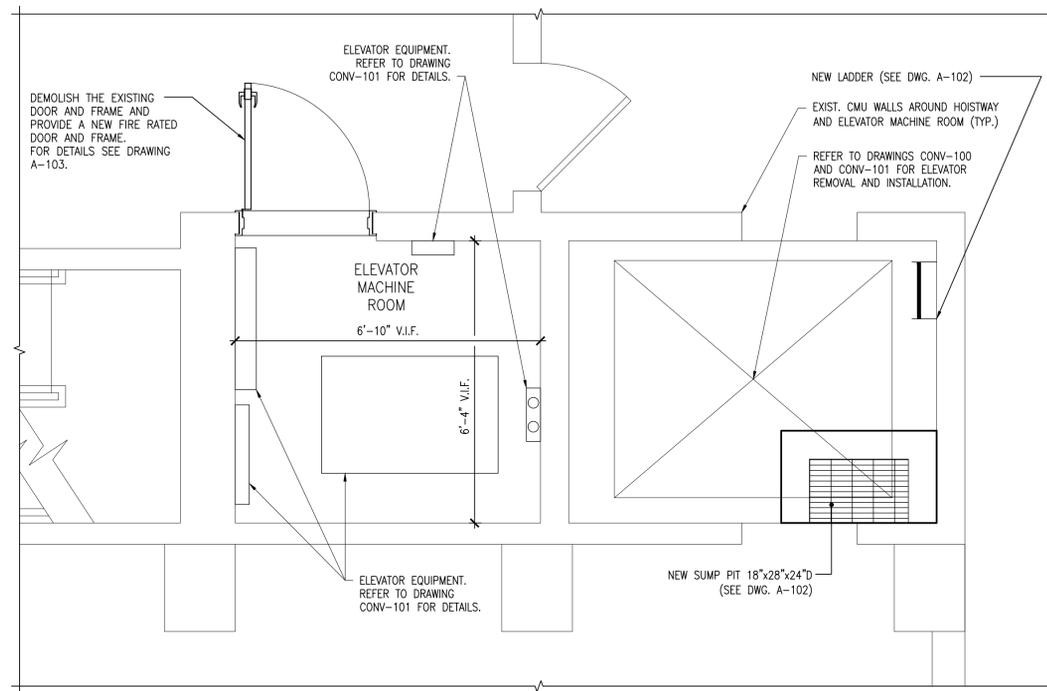




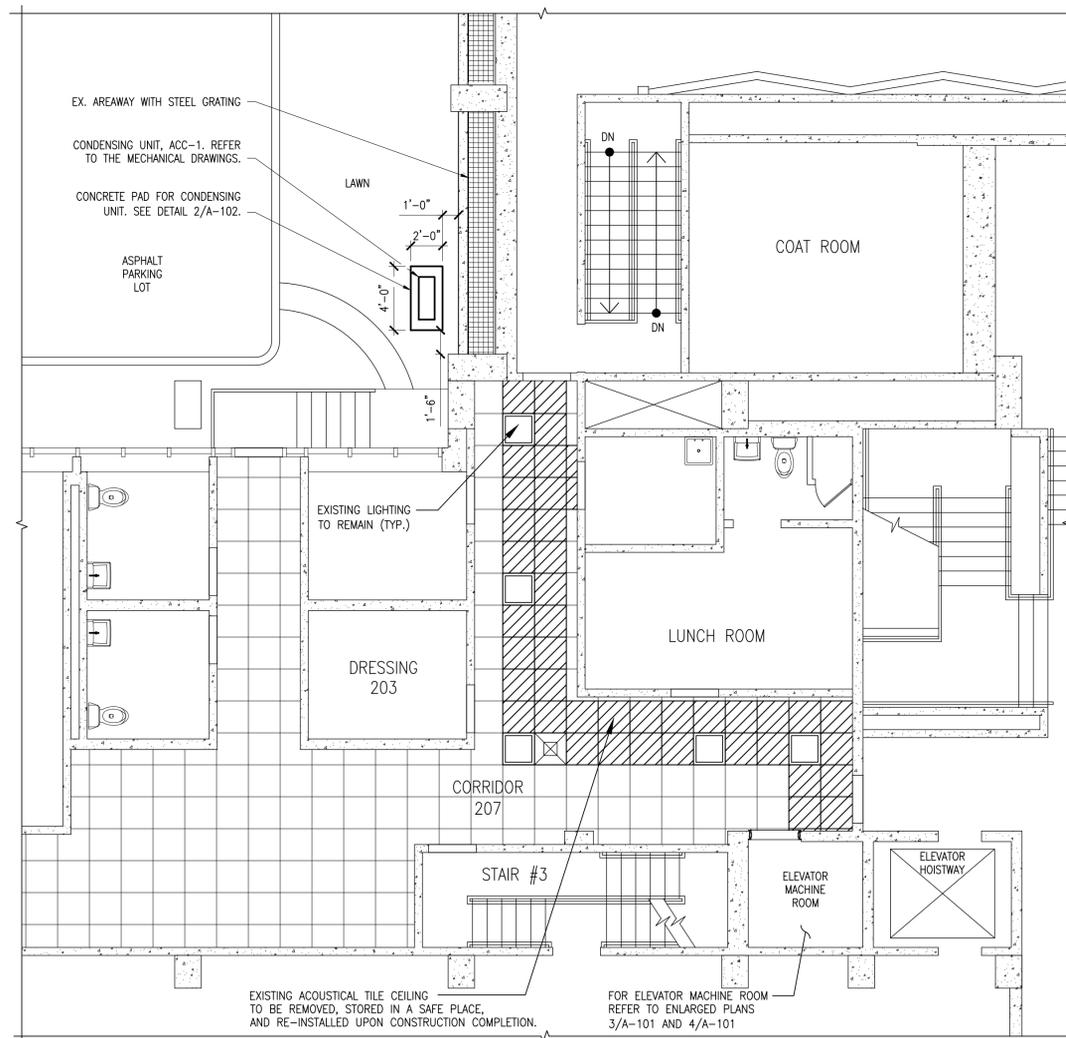
1 LOWER FLOOR KEY PLAN
A-101 SCALE: 1/32" = 1'-0"

LEGEND:

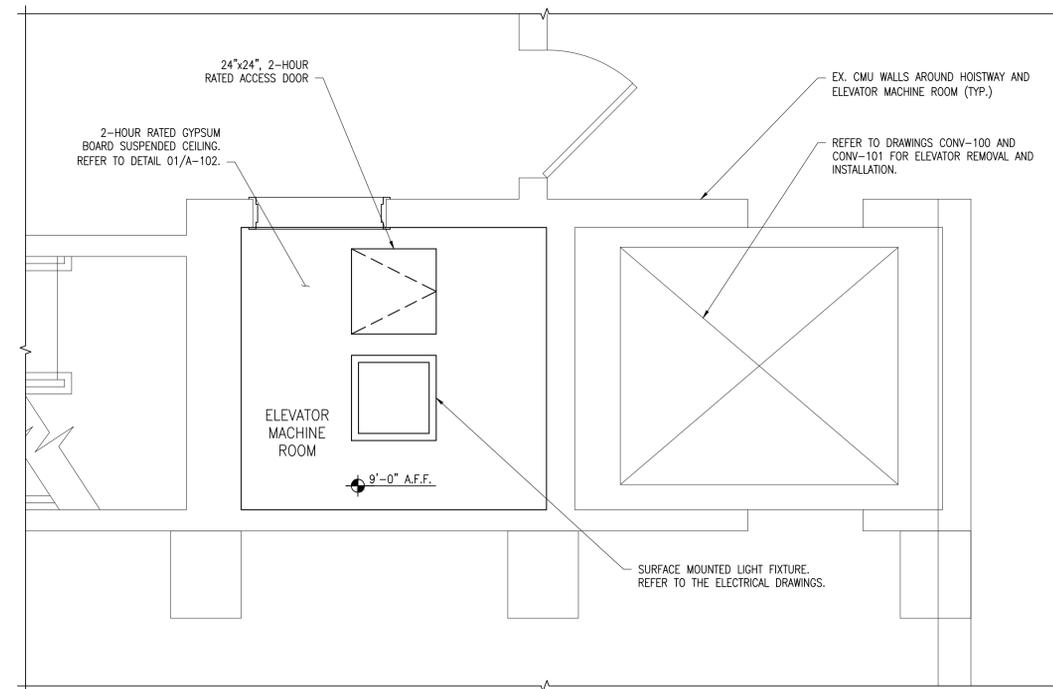
- EXISTING ACOUSTICAL TILE CEILING TO REMAIN
- EXISTING ACOUSTICAL TILE CEILING TO REMOVE, STORE IN THE SAFE PLACE AND RE-INSTALL UPON CONSTRUCTION COMPLETION
- NEW ACOUSTICAL TILE CEILING
- EXIST. 2'x2' RECESSED FLOOR LIGHT FIXTURE
- NEW 2'x2' SURFACE MOUNTED LIGHT FIXTURE
- EXIST. SUPPLY DIFFUSER



3 ELEVATOR MACHINE ROOM FLOOR PLAN
A-101 SCALE: 1/2" = 1'-0"



2 PARTIAL SUSPENDED CEILING LOWER FLOOR PLAN
A-101 SCALE: 3/16" = 1'-0"



4 ELEVATOR MACHINE ROOM REFLECTED CEILING PLAN
A-101 SCALE: 1/2" = 1'-0"

CEILING NOTES:

1. CEILING HEIGHT SHALL BE AS NOTED ON THE REFLECTED CEILING PLAN.
2. CEILING AND SOFFIT ELEVATION MARKS INDICATES HEIGHT FROM FINISH FLOOR.
3. CEILING TO BE 2 HOUR RATED SUSPENDED GYPSUM BOARD. REFER TO DETAIL 1/A-102.
5. ALL CEILING LIGHTS, DIFFUSERS, GRILLES, ETC. ARE TO BE LOCATED AS PER ARCHITECTURAL DRAWINGS.
6. IF CEILING DEVICES ARE NOT INDICATED ON ARCHITECTURAL PLANS INSTALL CENTERED IN CEILING.

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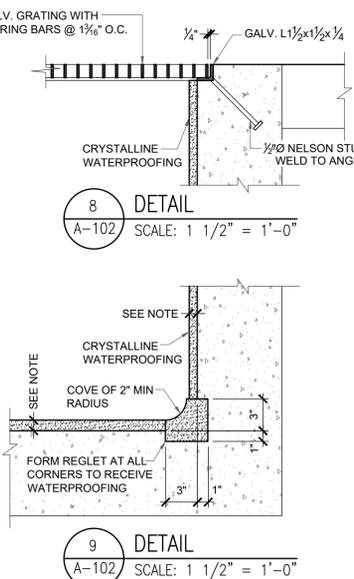
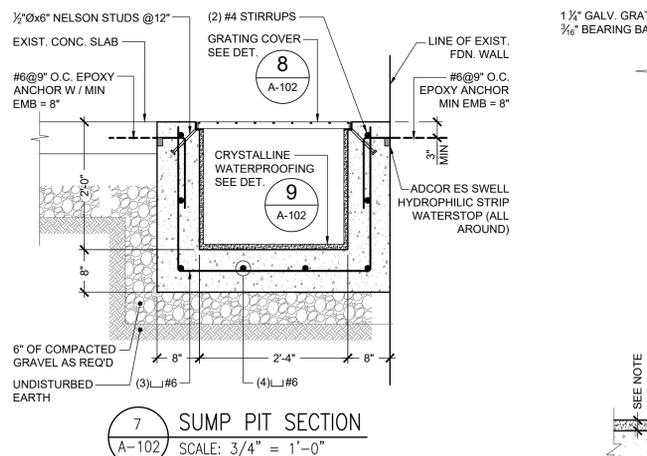
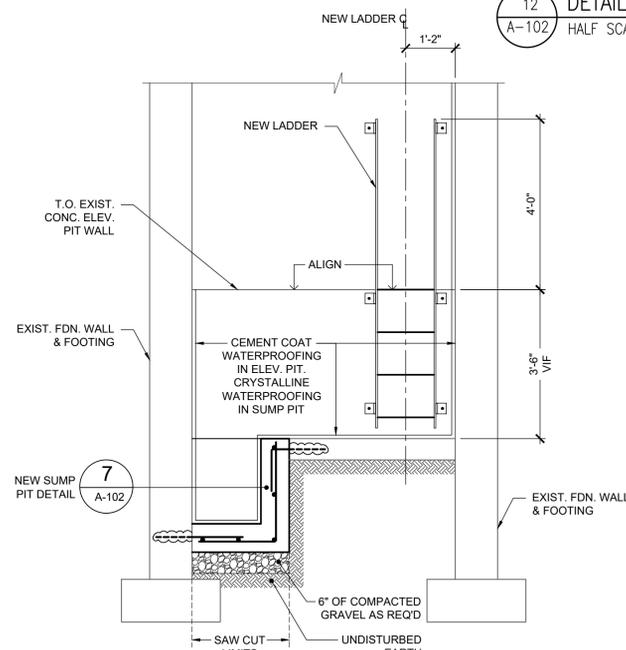
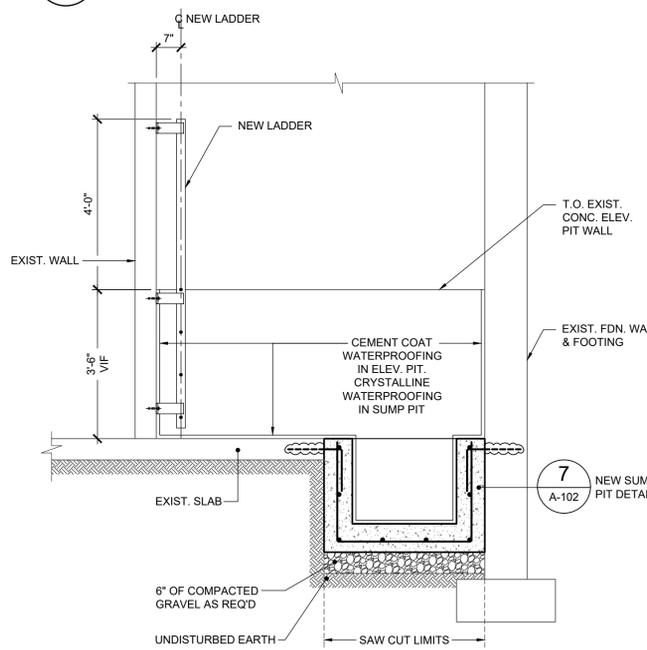
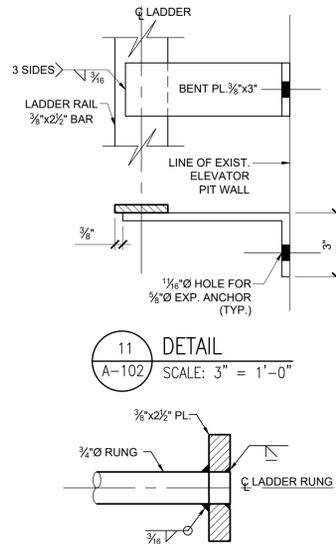
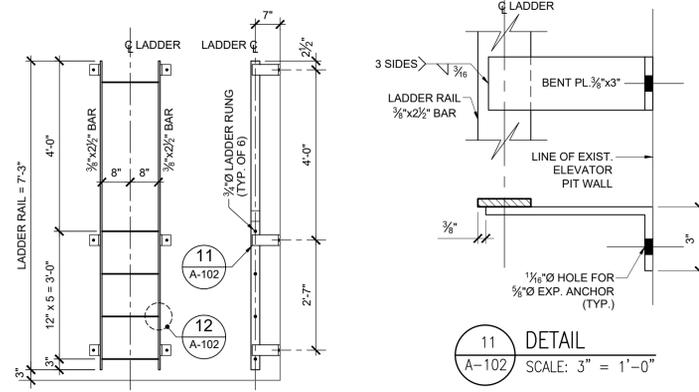
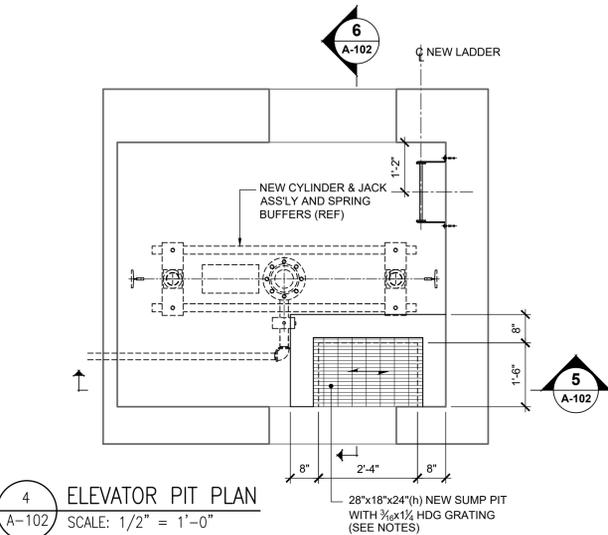
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1500 CENTRAL PARK AVE., YONKERS, NY

Drawing Title LOWER FLOOR PLAN

Date	Scale	Designed By	Drawn By	Checked By
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Seal Project No. MNY-2200036.00

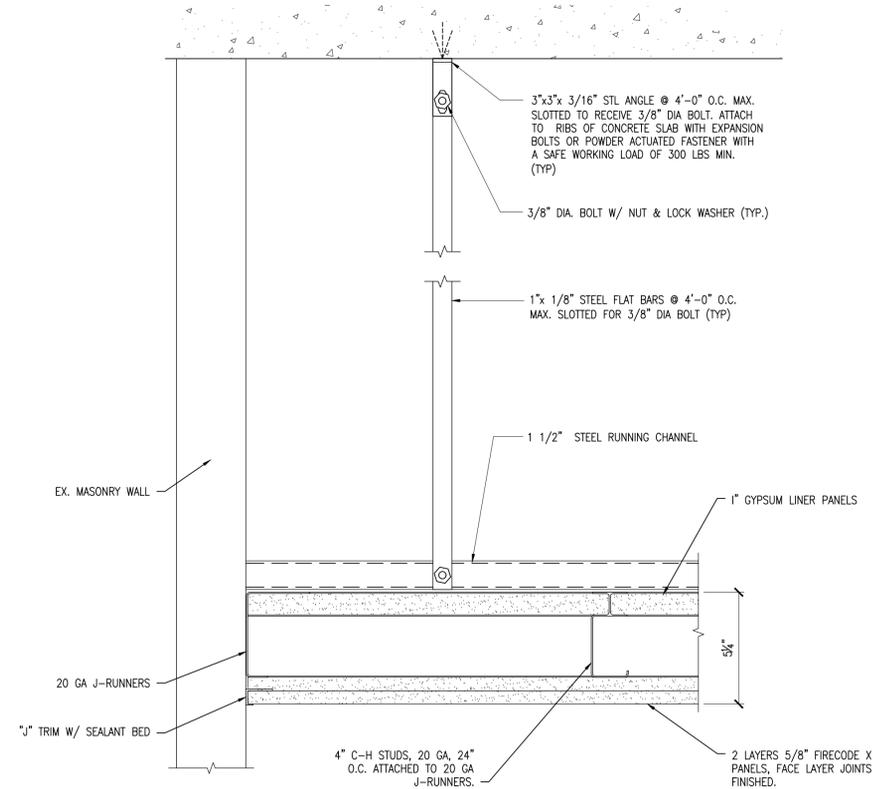
Drawing No. A-101
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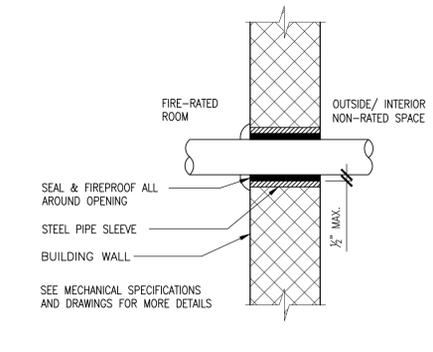
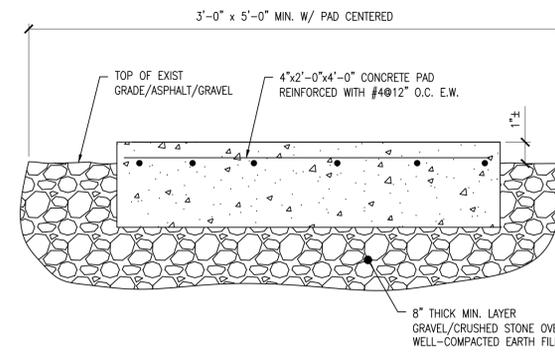
ROOM FINISH SCHEDULE							
ROOM NAME	AREA	FLOOR	BASE	WALL	CEILING	CEILING HT.	REMARKS
ELEVATOR MACHINE ROOM	±48 S.F.	F-1	N/A	W-1	C-1	+9'-0" A.F.F.	

FINISH LEGEND						
FLOORS	BASES	WALLS	CEILING			
F-1	PAINT ON CONCRETE	N/A	W-1	C-1	PAINT ON MASONRY	SUSPENDED GYP. BOARD, 2-HOUR RATED

- FINISH NOTES:**
- CLEAN ALL SURFACES PER THE MANUFACTURER'S RECOMMENDATIONS BEFORE PAINTING.
 - COLOR TO BE SELECTED BY THE OWNER.
 - TAPE, SPACKLE, AND SAND GWB CEILING TO #4 FINISH BEFORE PAINTING.



- NOTES:**
- ALL MECHANICAL EQUIPMENT AND DUCTS SHALL BE SUPPORTED INDEPENDENTLY FROM THE CEILING SYSTEM.
 - THE CEILING SYSTEM SHALL BE INSTALLED AS PER UL DESIGN U437 OR APPROVED EQUAL. SUBMIT DETAILS OF THE CEILING FOR APPROVAL PRIOR TO FABRICATION.



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SCHEDULES AND DETAILS

Date	Scale	Designed By	Drawn By	Checked By
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Project No. MNY-2200036.00
Drawing No. A-102



DOOR SCHEDULE

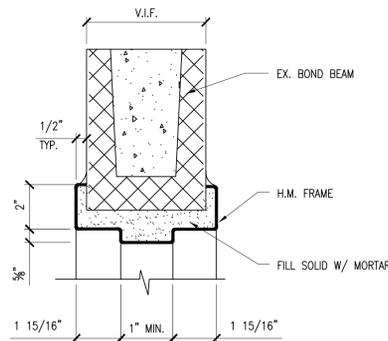
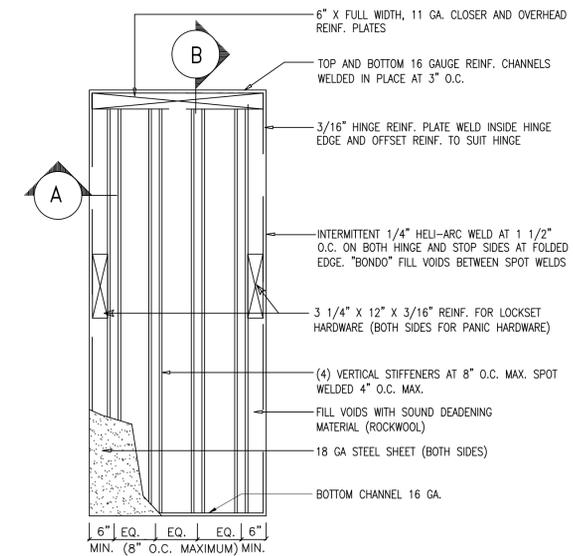
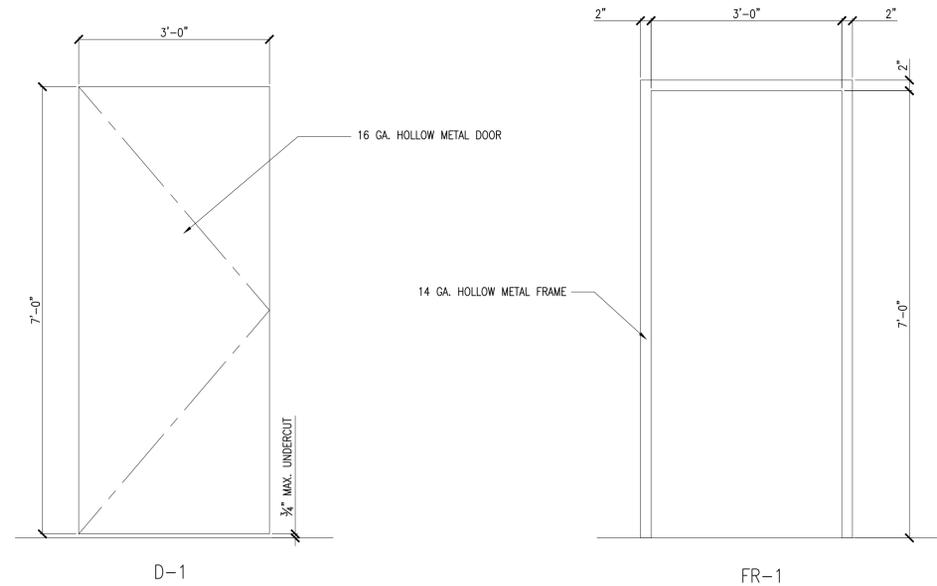
DOOR NO.	LOCATION	DOOR																		REMARKS	
		INT./EXT.	TYPE	MAT.	QTY NO.	NOMINAL SIZE			LOUVER			STC	FRAME				FIRE RATING (HR.)	HARDWARE SET			
						WIDTH	HEIGHT	THK.	WIDTH	HEIGHT	TYPE		MAT.	JAMB	HEAD	THRES			HORIZ MULLION		
FROM	TO																				
1	CORRIDOR 207	ELEVATOR MACHINE ROOM	INT.	D-1	H.M.	1	3'-0"	7'-0"	3/8"	-	-	-	FR-1	H.M.	4/A103	3/A103	-	-	1 1/2	1	LABEL "B"

ABBREVIATIONS:

H.M. - HOLLOW METAL
V.I.F. - VERIFY IN FIELD

DOOR NOTES:

- ALL DIMENSIONS TO BE VERIFIED IN FIELD.
- COORDINATE WITH SPECIFICATIONS FOR HARDWARE INFORMATION.
- NEW DOOR HARDWARE SHALL BE ACCESSIBLE HARDWARE COMPLYING WITH ANSI 117.1-89.4.13.9.
- NEW FIRE RATED DOOR SHALL HAVE PERMANENTLY AFFIXED MEA/BSA LABELS.
- OPENING FORCE FOR DOORS SHALL NOT EXCEED 5 LBS.
- DOOR WIDTHS AND HEIGHTS ARE INDICATED IN THE DOOR SCHEDULE.
- ALL INDICATED GAUGES ARE BASED ON U.S. STANDARD GAUGE FOR HOT ROLLED AND COLD ROLLED STEEL SHEETS.
- TOP HINGE - 5" FROM FRAME HEAD RABBIT TO TOP OF HINGE. CENTER HINGE - EQUAL DISTANCE FROM TOP AND BOTTOM HINGE. BOTTOM HINGE - 10" FROM FINISH FLOOR TO UNDERSIDE OF HINGE.
- THE SPACING OF STIFFENERS MAY NOT EXCEED 8" ON CENTERS.
- DOOR HARDWARE SET:
 - 1 1/2" PAIR HINGES, 4 1/2" x 4 1/2" NRP.
 - 1 STOREROOM FUNCTION LOCKSET.
 - 1 DOOR CLOSER - OVERHEAD.
 - 3 SILENCERS

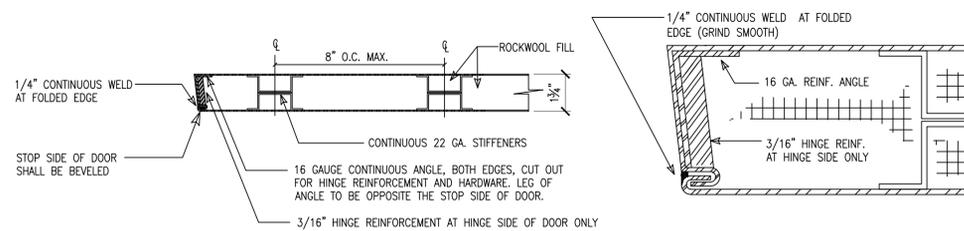


3 H.M. DOOR FRAME (HEAD) - TYPE FR-1
A-103 SCALE: 3" = 1'-0"

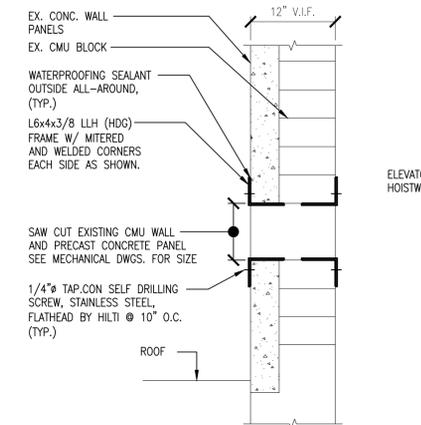
1 DOOR TYPE
A-103 SCALE: 1/2" = 1'-0"

2 FRAME TYPE
A-103 SCALE: 1/2" = 1'-0"

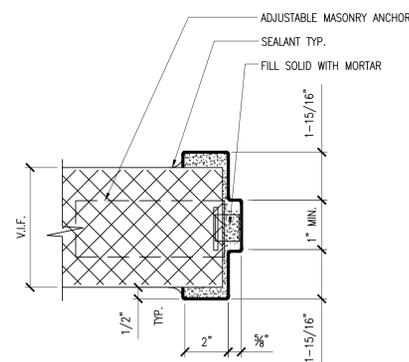
5 HOLLOW METAL DOOR / INTERIOR - TYPICAL CONSTRUCTION
A-103 SCALE: 3/4" = 1'-0"



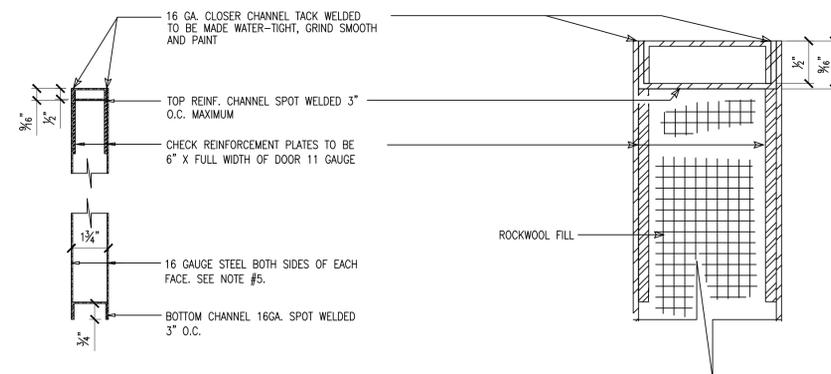
6 HOLLOW METAL DOOR - SECTION "A"
A-103 SCALE: 3" = 1'-0"



8 LOUVER LINTEL DETAIL
A-103 SCALE: N.T.S.



4 H.M. DOOR FRAME (JAMB) - TYPE FR-1
A-103



7 HOLLOW METAL DOOR - SECTION "B"
A-103 SCALE: 3" = 1'-0"

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DOOR SCHEDULE AND DETAILS

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Seal Project No. MNY-2200036.00

Drawing No. A-103

Sheet 6 of 20

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE 2017 NATIONAL ELECTRICAL CODE (NEC), THE APPLICABLE SECTIONS OF THE NFPA, 2020 INTERNATIONAL BUILDING CODE, AND ALL GOVERNING LOCAL CODES, LAWS, AND REGULATIONS.
- PROVIDE A COMPLETE OPERABLE SYSTEM IN A NEAT AND SKILLFUL MANNER. OUTLINE DESCRIPTION AND EQUIPMENT. DO NOT LIMIT CONTRACTOR'S LIABILITY FOR THE INSTALLATION OF A COMPLETE OPERABLE SYSTEM.
- VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS THAT MAY AFFECT THE WORK. NO ADDITIONAL COMPENSATION WILL BE DUE FOR FAILURE TO DO SO.
- CONTRACTOR TO BE RESPONSIBLE FOR REVIEWING THE FULL SET OF BID DOCUMENTS; CONTRACTOR TO BE AWARE OF THE TOTAL SCOPE PRIOR TO SUBMITTING BID. ALL WORK SHOWN ON THE DRAWINGS NOT SPECIFICALLY CALLED OUT AS EXISTING SHALL BE CONSIDERED WORK TO BE PERFORMED UNDER THIS CONTRACT.
- BIDDERS, BEFORE SUBMITTING A PROPOSAL, SHALL VISIT AND CAREFULLY EXAMINE THE SITE, TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND WITH THE DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED. NO ALLOWANCE WILL SUBSEQUENTLY BE MADE TO THE CONTRACTOR BY REASON OF ANY ERROR DUE TO THE CONTRACTOR'S NEGLIGENCE TO COMPLY WITH THIS REQUIREMENT. REPORT ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS TO THE ENGINEER.
- BEFORE COMMENCING WORK, THE CONTRACTOR SHALL FILE ALL REQUIRED CERTIFICATES OF INSURANCE WITH THE BUILDING DEPARTMENT. OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES REQUIRED.
- UPON COMPLETION OF ALL ELECTRICAL WORK, ELECTRICAL CONTRACTOR SHALL ADJUST AND TEST ALL CIRCUITS, DEVICES AND ANY OTHER ELECTRICAL ITEMS INSTALLED. ANY DEFECTIVE ITEMS SHALL BE IMMEDIATELY REPAIRED OR REPLACED WITH NEW EQUIPMENT OR MATERIALS AND THAT PORTION OF THE SYSTEM SHALL BE RETESTED. ALL SUCH REMEDIAL WORK SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE AUTHORITY.
- ALL NOTATIONS OF "SCALE" ARE INTENDED AS APPROXIMATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO ASCERTAIN THE EXACT DIMENSIONS IN FIELD.
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. SIZES AND LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY ON THE DRAWINGS.
- UNLESS OTHERWISE NOTED, ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO PULL BOXES, JUNCTION BOXES, LOW VOLTAGE SYSTEMS DEVICES, ETC WHERE INDICATED ON DRAWINGS, SHALL BE CONSIDERED SHOWN AT THEIR APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL LOCATE THESE ITEMS AS FIELD CONDITIONS DICTATE AND AS APPROVED BY THE ARCHITECT OR THE AUTHORITY REPRESENTATIVE.
- ALL CONDUIT RUNS, WHEN SHOWN ON THE DRAWINGS, ARE SHOWN DIAGRAMMATICALLY TO OUTLINE THE GENERAL ROUTING OF MAJOR FEEDERS AND BRANCH WIRING. IT IS NOT WITHIN THE SCOPE OF THESE DRAWINGS TO SHOW ALL NECESSARY BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK TO CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.
- ADDITIONAL PULL AND JUNCTION BOXES NOT SHOWN ON DRAWINGS SHALL BE PROVIDED WHERE REQUIRED BY APPLICABLE CODE REQUIREMENTS OR WHERE CALLED FOR BY FIELD CONDITIONS. PULL AND JUNCTION BOXES SHALL BE SURFACE MOUNTED THROUGHOUT.
- CONDUIT RUNS SHALL CLEAR ALL ARCHITECTURAL FEATURES (DOORS, WINDOWS, ETC) AND STRUCTURAL MEMBERS. CONDUIT INSTALLATION SHALL ALSO BE MADE TO AVOID OBSTRUCTION AND CLEAR ACCESS WITH PIPES, DUCTS, OR OTHER EQUIPMENT CORRESPONDING TO OTHER TRADES, INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION. SHALL ANY OF THESE ELEMENTS PREVENT THE INSTALLATION OF RACEWAY AS DELINEATED ON THE CONTRACT DOCUMENTS, DEVIATION MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ANY VARIATION DUE TO FIELD CONDITIONS SHALL NOT REPRESENT AN ADDITIONAL COST TO OWNER.
- ALL CONDUITS BEING INSTALLED AS PART OF THIS PROJECT ARE EXPOSED EXCEPT IN AREAS WITH ACCESSIBLE HUNG CEILING, WHEN EXPOSED, CONDUIT AND BOXES SHALL BE PAINTED. PAINTING SHALL CONSIST OF A PRIME COAT AND A FINISH COAT, COLOR AS SELECTED BY ARCHITECT OR TO MATCH SURROUNDING SURFACES. FACTORY PAINTING WILL BE ACCEPTED AS A PRIME COAT. CONDUIT SHALL BE RUN ABOVE HUNG CEILING WHERE AVAILABLE.
- MINIMUM SIZE OF CONDUITS SHALL BE 3/4", UNLESS OTHERWISE NOTED.
- PROVIDE OUTLET BOXES AND ENCLOSURES APPROPRIATE FOR THE PURPOSE AT ALL LOCATIONS WHERE THE DRAWINGS REQUIRE THE INSTALLATION OF ELECTRICAL DEVICES OR ELECTRICAL EQUIPMENT.
- ALL OPENINGS BETWEEN FLOORS, THROUGH RATED FIRE AND SMOKE WALLS, CREATED BY THE CONTRACTOR FOR CABLE OR CONDUIT PASSES THROUGH SHALL BE SEALED WITH A FIRE STOPPING MATERIAL. FIRE STOPPING MATERIAL AND ITS APPLICATION SHALL BE ACCOMPLISHED IN SUCH A MANNER THAT IS ACCEPTABLE TO THE LOCAL FIRE AND BUILDING AUTHORITIES HAVING JURISDICTION OVER THIS WORK. ANY OPENINGS CREATED BY OR FOR THE CONTRACTOR AND LEFT UNUSED SHALL ALSO BE SEALED AS PART OF THIS WORK.
- ALL EXPOSED NONCURRENT-CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT AND RACEWAYS SHALL BE GROUNDED. A SEPARATE GROUND CONDUCTOR SHALL BE RUN IN ALL CONDUITS IN ALL CASES. ENSURE CONTINUITY OF THE GROUNDING CIRCUIT FROM THE SUPPLYING PANELBOARD GROUNDING BUS TO THE LOAD GROUND TERMINAL SHALL NOT EXCEED 1 OHM.
- NO LOW VOLTAGE WIRING SHALL BE PERMITTED IN THE SAME RACEWAY AS POWER WIRING.
- ALL ELECTRICAL EQUIPMENT AND ACCESSORIES INSTALLED OUTSIDE OR EXPOSED TO WEATHER SHALL HAVE NEMA 3R ENCLOSURES AND SHALL BE TIGHTLY GASKETED FOR A COMPLETE RAINTIGHT INSTALLATION.
- ALL EQUIPMENT SHALL HAVE COPPER CURRENT CARRYING PARTS INCLUDING GROUND BUS AND TERMINALS.
- REMOVE ALL DEBRIS RESULTING FROM REMOVAL AND/OR INSTALLATION OF ELECTRICAL WORK FROM THE PREMISES.
- UNLESS OTHERWISE NOTED, "INSTALL" MEANS TO BE PROVIDED AND INSTALLED BY THIS CONTRACTOR.
- CONTRACTOR TO BE RESPONSIBLE FOR ALL RESTORATION, SEALING, WATERPROOFING, PENETRATIONS, CORE DRILLING, CUTTING, PATCHING, AND PAINTING FOR THE COMPLETE CONTRACT WORK INDICATED. ALL RESTORATION WORK PERFORMED BY CONTRACTOR SHALL RESTORE DISTURBED SURFACES TO MATCH ALL SURROUNDING CONSTRUCTION.
- UNLESS OTHERWISE NOTED PROVIDE 2#12, 1#12G IN 3/4" CONDUIT TO 20A CIRCUIT BREAKERS IN PANELS INDICATED.
- IF DURING THE COURSE OF THE PROJECT, ASBESTOS OR OTHER HAZARDOUS MATERIAL CONTAMINATION IS ENCOUNTERED OR SUSPECTED, THE CONTRACTOR SHALL NOTIFY THE OWNER, THE PROJECT MANAGER, AND THE DESIGN PROFESSIONAL IMMEDIATELY (WITHIN 24 HRS.) IN WRITING. CONTRACTOR WILL SUSPEND WORK IN THE AFFECTED AREA UNTIL SUCH TIME THAT THE SAID AREA IS CERTIFIED AS CONTAMINATION FREE.

GENERAL DEMOLITION NOTES

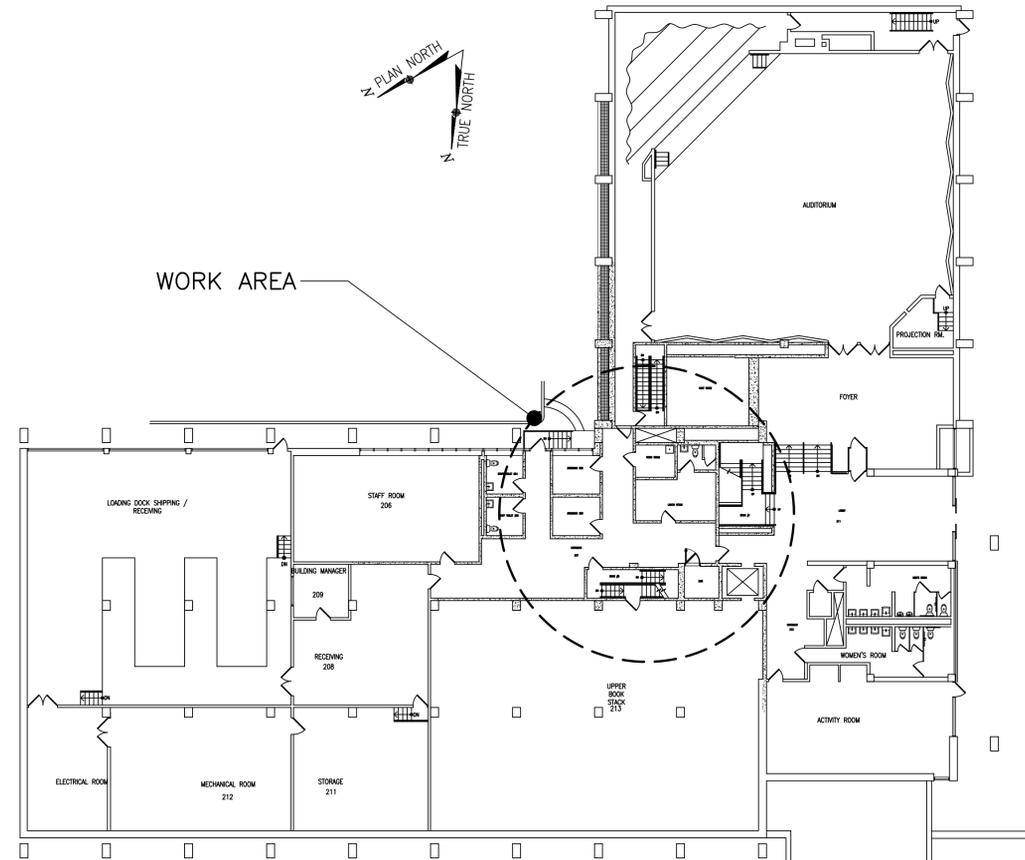
- THE DEMOLITION WORK SHALL BE CARRIED ON IN EVERY RESPECT IN A THOROUGH AND WORKMANLIKE MANNER.
- ALL DEMOLITION, REMOVAL, AND DISPOSAL WORK SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE BUILDING CODE AND WITH ALL STATE AND FEDERAL REGULATIONS.
- REMOVE ALL DEBRIS NOT EXPLICITLY DESIGNATED TO BE SALVAGED (TO REMAIN) FROM THE PREMISES AND LEGALLY DISPOSE OFF AWAY FROM PREMISES.
- ITEMS INDICATED TO BE SALVAGED SHALL BE REMOVED EITHER BEFORE DEMOLITION OR DURING THE PROCESS OF THE WORK, STORED AND PROTECTED ON THE SITE IN A LOCATION DESIGNATED BY THE OWNER'S REPRESENTATIVE. THESE ITEMS WILL BE IDENTIFIED AND RETAINED BY THE OWNER.
- CAREFULLY REMOVE AND PROTECT ALL ITEMS TO BE SAVED AND REUSED AS INDICATED ON DRAWINGS. REPLACE ANY ITEMS THAT ARE DAMAGED BY REMOVAL AT YOUR OWN COST. NOTIFY THE OWNER IN WRITING OF ANY ITEM THAT IS DAMAGED PRIOR TO REMOVAL SO THAT THEY MAY ASCERTAIN THE ITEM'S CONDITION.
- PROTECT MATERIALS, SURFACES AND STRUCTURE, WHICH ARE TO REMAIN, FROM DAMAGE; IF DAMAGE OCCURS, REPAIR OR REPLACEMENT SHALL BE MADE BY THE CONTRACTOR, TO THE SATISFACTION OF THE OWNER, AND AT THE EXPENSE OF THE CONTRACTOR.
- DISCONNECT, REMOVE AND RELOCATE ANY ELECTRICAL EQUIPMENT NOT SHOWN ON THESE DRAWINGS AS PART OF THIS CONTRACT, BUT INTERFERES WITH THE WORK UNDER THIS CONTRACT. THIS WORK SHALL NOT BE CONSIDERED EXTRA AND SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
- VISIT AND EXAMINE CAREFULLY THE AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH THE DIFFICULTIES THAT ATTEND THE EXECUTION OF THIS WORK. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT, OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED.
- RELOCATE AND/OR ALTER THE EXISTING BUILDING COMPONENTS AS DIRECTED BY OWNER'S REPRESENTATIVE. ALL RELOCATION OR ALTERATIONS TO BUILDING SHALL BE RESTORED TO THEIR ORIGINAL WORKING CONDITIONS AFTER SUCH RELOCATION OR ALTERATION WORK.
- AT THE COMPLETION OF DEMOLITION WORK, ALL RUBBISH, DEBRIS AND WASTE MATERIALS SHALL BE REMOVED BY THE CONTRACTOR AND THE PREMISES SHALL BE LEFT IN CLEAN CONDITION.
- THE CONTRACTOR SHALL DISCONNECT THE CIRCUIT WIRING NOT IN USE AND SHALL REMOVE ALL NECESSARY WIRING MATERIALS, INCLUDING EXPOSED CONDUITS AND JUNCTION BOXES WHICH IMPEDE THE NEW WORK.
- MAINTAIN CONTINUITY FOR ALL EQUIPMENT TO REMAIN. PROVIDE ALL REQUIRED ACCESSORIES, WIRING AND CONDUIT AS REQUIRED.
- SUBSTANTIAL JOB COMPLETION INCORPORATES DEMOLITION OF EXISTING SYSTEMS IN CONTRACT.
- PRIOR TO DEMOLITION CONTRACTOR SHALL REVIEW WITH OWNER ALL MATERIALS TO BE REMOVED. SHOULD THE OWNER DECIDE TO KEEP ANY MATERIALS, THE CONTRACTOR SHALL REMOVE AND DELIVER THE PARTS TO THE OWNER ON THE SITE WHERE SO DIRECTED. OTHERWISE, ALL DEMOLISHED OR REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND BE DISPOSED OF IN A LEGAL MANNER.
- DEMOLITION SHALL INCLUDE REMOVAL OF ALL PARTS AND PIECES IN THEIR ENTIRETY BACK THE POINTS INDICATED OR IF NOT INDICATED, BACK TO SOURCE. REMOVE CONDUCTORS FROM REMAINED CONDUITS WHERE INDICATED. WHERE CONDUCTORS ARE ABANDONED IN CONDUITS, DISCONNECT, ISOLATE AND CAP THEM TO ENSURE SAFETY AND PROTECTION. WHERE CONDITIONS PROHIBIT TOTAL REMOVAL OF THE WORK, THE REMAINING PORTION SHALL BE CUT FLUSH WITH THE SURROUNDING SURFACE AND BE CAPPED, PLUGGED OR SEALED AND THE SURROUNDING SURFACE SHALL BE REFINISHED IN AN APPROVED MANNER.
- MAINTAIN EXISTING UTILITIES INDICATED OR REQUIRED TO REMAIN, KEEP IN SERVICE, AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITY SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN SCHEDULED WITH THE OWNER.
- DO NOT REMOVE EXISTING STRUCTURAL WORK OR OPERATIONAL ELEMENTS AND SAFETY-RELATED COMPONENTS IN A MANNER OF RESULTING IN A REDUCTION OF CAPACITIES TO PERFORM IN THE MANNER INTENDED OR RESULTING IN DECREASED OPERATIONAL LIFE, INCREASED MAINTENANCE, OR DECREASED SAFETY.
- REMOVALS SHALL BE PERFORMED BY SKILLED WORKMAN IN THE TRADE INVOLVED AND SHALL BE EMPLOYED BY THE CONTRACTOR LICENSED IN THE TRADE INVOLVED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ACCEPTED TRADE PRACTICES.
- PROVIDE ADEQUATE TEMPORARY SUPPORT FOR WORK TO REMAIN, TO PREVENT FAILURE OR ENDANGERING OF OTHER WORKERS.
- TEMPORARY DUST RETAINING BARRIERS AND BARRICADES SHALL BE ERECTED WHERE REQUIRED FOR PROTECTION OF PERSONNEL FROM DUST, DIRT OR DEBRIS, FOR SECURITY, AND FOR FIRE AND WEATHER PROTECTION. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.

INSTALLATION NOTES

- CONTRACTOR TO BE RESPONSIBLE FOR ALL POWER CONNECTIONS TO THE ELEVATOR, SUMP PUMP, PIT LIGHTING AND ALL ANCILLARY COMPONENTS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM INSTALLATION. THIS SHALL INCLUDE BUT IS NOT LIMITED TO COMMUNICATION, ELECTRICAL AND NOTIFICATION CONNECTIONS AS WELL AS ANY OTHER REQUIRED TO MAKE THE EQUIPMENT OPERATIONAL.
- CONTRACTOR SHALL PERMANENTLY FASTEN ALL THE EQUIPMENT AS INDICATED ON THE DRAWINGS IN AN APPROVED MANNER, WITH ALL NECESSARY HARDWARE.
- CONTRACTOR SHALL PROVIDE ALL CONDUITS, WIRING, PULL AND JUNCTION BOXES, AND ALL ACCESSORIES NECESSARY TO COMPLETE THE WIRING TO ALL COMPONENTS OF THE SYSTEM. ALL CONNECTIONS SHALL BE MADE COMPLETE AND TESTED.
- IN ACCORDANCE WITH NEC ARTICLE 210.4 (B), CONTRACTOR SHOULD PROVIDE SEPARATE NEUTRAL CONDUCTORS FOR EACH PHASE CONDUCTOR OF SINGLE PHASE LIGHTING OR RECEPTACLE BRANCH CIRCUITS, OR PROVIDE MULTI-POLE BREAKERS IN PANELS WHEN USING A COMMON NEUTRAL FOR 2-3 SINGLE PHASE CIRCUIT HOMERUNS.

LIGHTING & POWER SYMBOLS

SYMBOL	DESCRIPTION
	CONDUIT AND WIRE RUN CONCEALED IN FLOOR, CEILING OR WALL. HASHMARKS DENOTE NUMBER OF WIRES IF MORE THAN TWO ARE REQUIRED. ARROWS DENOTE HOMERUNS OF PARTICULAR CIRCUITS. MINIMUM 2 #12 THWN IN 3/4" CONDUIT.
	RISER CONDUIT UP, WITH WIRING.
	RISER CONDUIT DOWN, WITH WIRING.
	CEILING MOUNTED JUNCTION/SPLICE BOX, SIZE AS REQUIRED. SUBSCRIPT 'F' INDICATES FLOOR MOUNTED.
	SINGLE POLE TOGGLE SWITCH. 'o' DENOTES WHICH LIGHT FIXTURES THE SWITCH OPERATES.
	DUPLEX THREE WIRE GROUNDED RECEPTACLE, 20A, 125V. 'GFCI' OR 'GFI' INDICATES GROUND FAULT CIRCUIT INTERRUPTER
	EXISTING EQUIPMENT TO BE REMOVED
	MOTOR. '1' DENOTES ONE HORSEPOWER MOTOR.
	DISCONNECT SWITCH, RATING AND FUSING NOTED. HORSEPOWER RATING AS REQUIRED BY MOTOR LOAD. 'WP' INDICATES WEATHERPROOF ENCLOSURE, OTHERWISE NEMA-1. INSCRIBED 'F' INDICATES FUSIBLE TYPE.
	NEW POWER PANELBOARD, SURFACE MOUNTED ON WALL. UNLESS NOTED OTHERWISE.



1 LOWER FLOOR PLAN-WORK AREA
E-001 SCALE: 3/32" = 1'-0"

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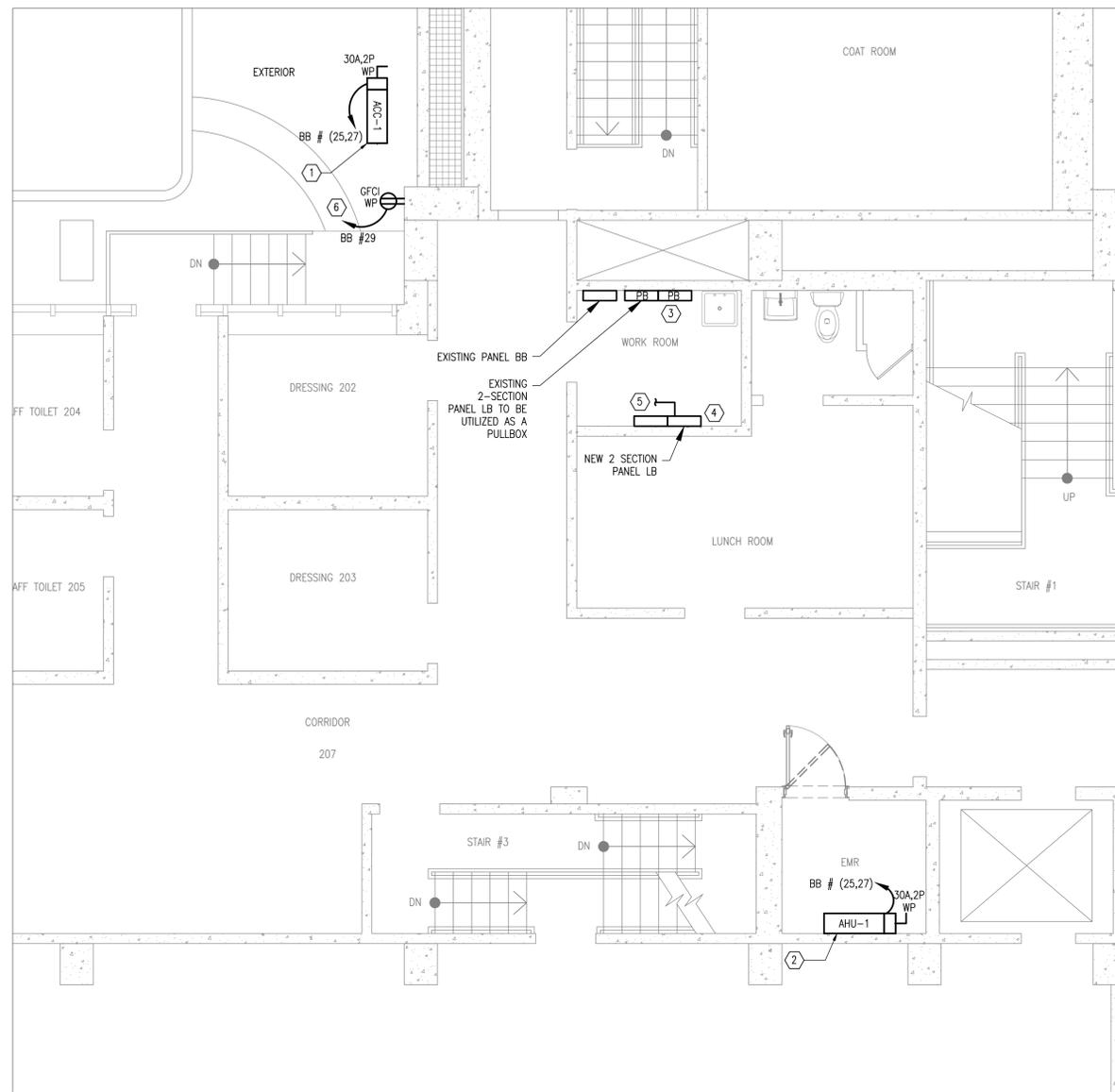
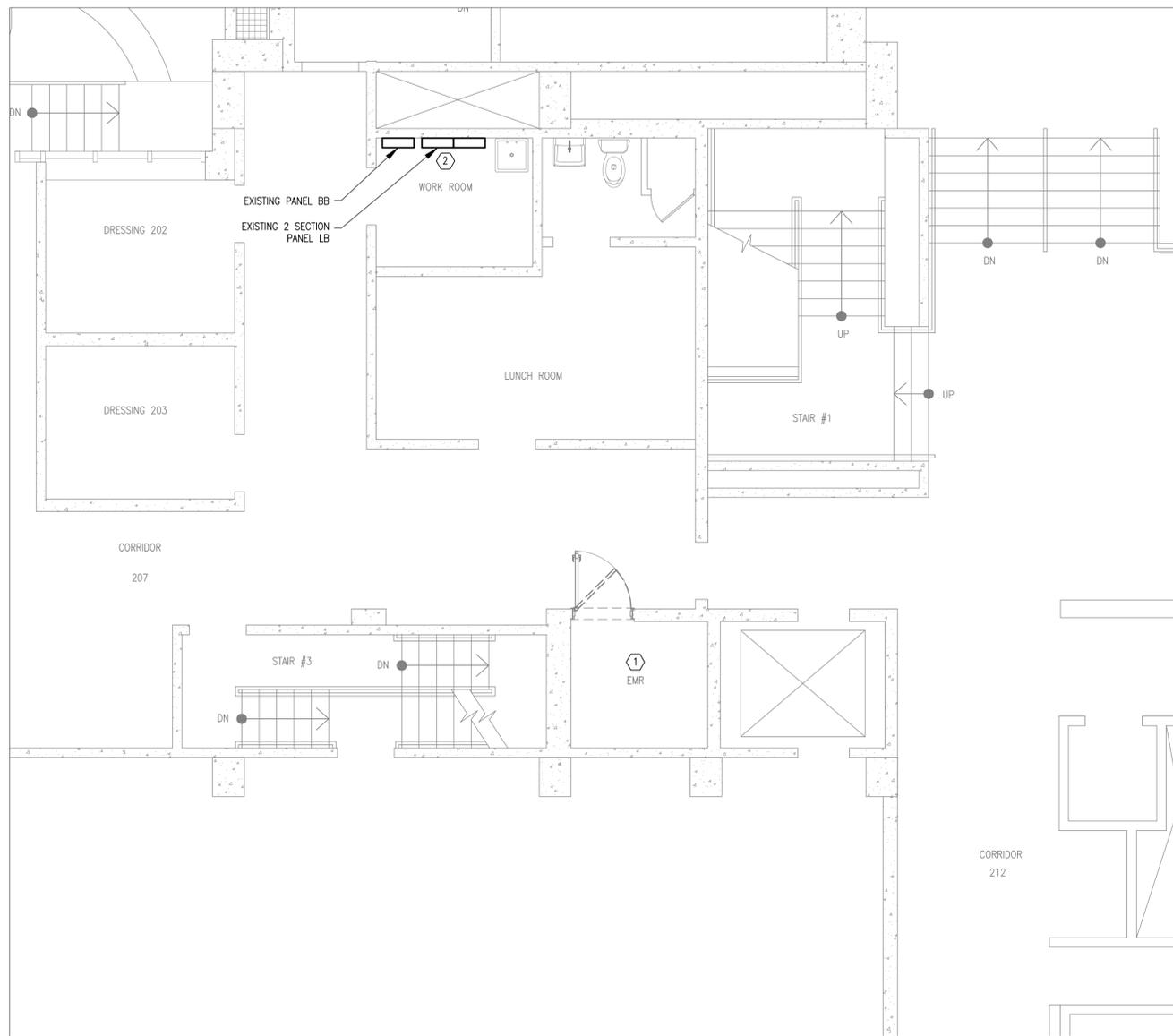
Drawing Title

GENERAL NOTES & SYMBOLS

Date	Scale	Designed By	Drawn By	Checked By
06/29/2022	AS SHOWN	JJ	JJ	MP

Seal	Project No.
	MNY-2200036.00

Drawing No.
E-001



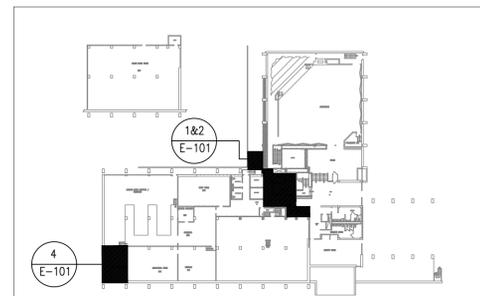
1 PARTIAL LOWER FLOOR PLAN - DEMO
E-101 SCALE: 1/4" = 1'-0"

NOTES:

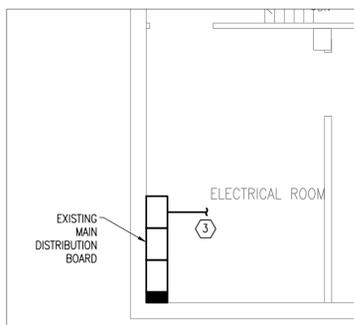
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL REMOVALS AND CONNECTIONS ASSOCIATED WITH THE ELEVATOR UPGRADE, WHERE NOT PERFORMED BY THE ELEVATOR CONTRACTOR. COORDINATE THIS WORK WITH THE ELEVATOR CONTRACTOR.
- ALL DEVICES CALLED TO BE DEMOLISHED SHALL BE REMOVED ALONG WITH ASSOCIATED WIRING, EXPOSED CONDUIT AND ACCESSORIES, BACK TO SOURCE. FOR ALL CONCEALED CONDUITS, WIRING SHALL BE REMOVED AND CONDUITS SHALL BE ABANDONED IN PLACE AND CAPPED AT BOTH ENDS. ALL EXPOSED CONDUIT SHALL BE REMOVED.
- FINISH DISTURBED AREAS TO MATCH EXISTING.
- SAFEGUARD ALL REMOVED ITEMS AND DISPOSE OFF AS DIRECTED BY THE OWNER.

KEY NOTES:

- DISCONNECT AND REMOVE THE EXISTING ELEVATOR DISCONNECT, ELEVATOR CONTROLLER, ETC. AS PER THE ELEVATOR CONSULTANTS' DRAWINGS. DISCONNECT AND REMOVE THE EXISTING LIGHT FIXTURE AND REPLACE WITH NEW AS SHOWN ON DRAWING E-102. PROVIDE A NEAT AND COMPLETE DEMOLITION IN A WORKMANLIKE MANNER.
- DISCONNECT AND REMOVE THE EXISTING ELEVATOR FEEDER BACK TO EXISTING PANEL LB (RIGHT SECTION), CIRCUIT #25. VERIFY EXISTING CIRCUITRY IN THE FIELD.



3 AREA OF WORK - LOWER FLOOR
E-101 SCALE: NTS



4 MAIN ELEC ROOM - LOWER FLOOR
E-101 SCALE: NTS

1 PARTIAL LOWER FLOOR PLAN - NEW
E-101 SCALE: 1/4" = 1'-0"

NOTES:

- FOR GENERAL NOTES, ABBREVIATIONS AND ELECTRICAL SYMBOL LIST, REFER TO DRAWING 'E001'.
- REFER TO DRAWING E-102 FOR THE NEW ELEVATOR MACHINE ROOM LAYOUT.

KEY NOTES:

- PROVIDE A NEW WEATHER PROOF 30 AMP UNFUSED LOCKABLE DISCONNECT SWITCH FOR THE OUTDOOR "ACC-1" UNIT. RUN 2#12, 1#12G IN 3/4" CONDUIT FROM PANEL BB TO THE NEW OUTDOOR UNIT. PROVIDE A NEW 2P, 20A BREAKER IN PANEL BB. COORDINATE THE CONDUIT RUNS AS PER THE FIELD CONDITIONS.
- THE INDOOR UNIT "AHU-1" RECEIVES POWER FROM THE OUTDOOR UNIT "ACC-1" THROUGH FIELD-SUPPLIED INTERCONNECTED WIRING. COORDINATE WITH THE MECHANICAL CONTRACTOR FOR MORE INFORMATION. PROVIDE 3/4" FOR CONTROL WIRING.
- THE EXISTING FEEDER FED FROM THE MAIN ELEC ROOM TO EXISTING PANEL LB SHALL BE REPLACED WITH NEW TO FEED THE NEW PANEL LB. UTILIZE THE EXISTING 2 1/2" CONDUIT AND RUN 4#3/0, 1#66. EXTEND THE EXISTING CONDUIT AS NECESSARY FOR A COMPLETE CODE COMPLIANT INSTALLATION IN A NEAT AND WORKMANLIKE MANNER.
- PROVIDE AND INSTALL A NEW 200A, 120/208V, 3PH, 4W, (2) 42 POLE CIRCUIT BREAKER TYPE SURFACE MOUNTED 2-SECTION PANELBOARD LB IN THE WORK ROOM. VERIFY EXACT LOCATION IN FIELD. DISCONNECT ALL EXISTING BRANCH CIRCUITS FED FROM EXISTING PANEL LB, EXTEND AND RECONNECT TO THE NEW PANEL LB. PROVIDE CONDUIT, WIRING, PULLBOXES AS REQUIRED FOR COMPLETE TRANSFER OF ALL EXISTING BRANCH CIRCUITS FROM EXISTING PANEL TO NEW PANEL. THE EXISTING FEDERAL PACIFIC PANEL SHALL BE GUTTED OUT AS NECESSARY AND BE UTILIZED AS A PULL BOX TO EXTEND THE EXISTING BRANCH CIRCUITS. ALL EXTENDED BRANCH CIRCUITS SHALL MATCH THE EXISTING. PROVIDE A COMPLETE, CODE COMPLIANT INSTALLATION IN A NEAT AND WORKMANLIKE MANNER.
- PROVIDE A 100A, 3P CIRCUIT BREAKER IN NEW PANEL LB AND RUN 3#2, 1#6G IN 1 1/4" CONDUIT TO THE ELEVATOR MACHINE ROOM FUSED LOCKABLE DISCONNECT SWITCH. REFER TO DRAWING E-102 FOR MORE INFORMATION.
- PROVIDE A 1P, 20A CIRCUIT UTILIZING THE SPACE #29 IN PANEL BB TO FEED THE NEW CONVENIENCE OUTLET. RUN 2#12, 1#12G IN 3/4".

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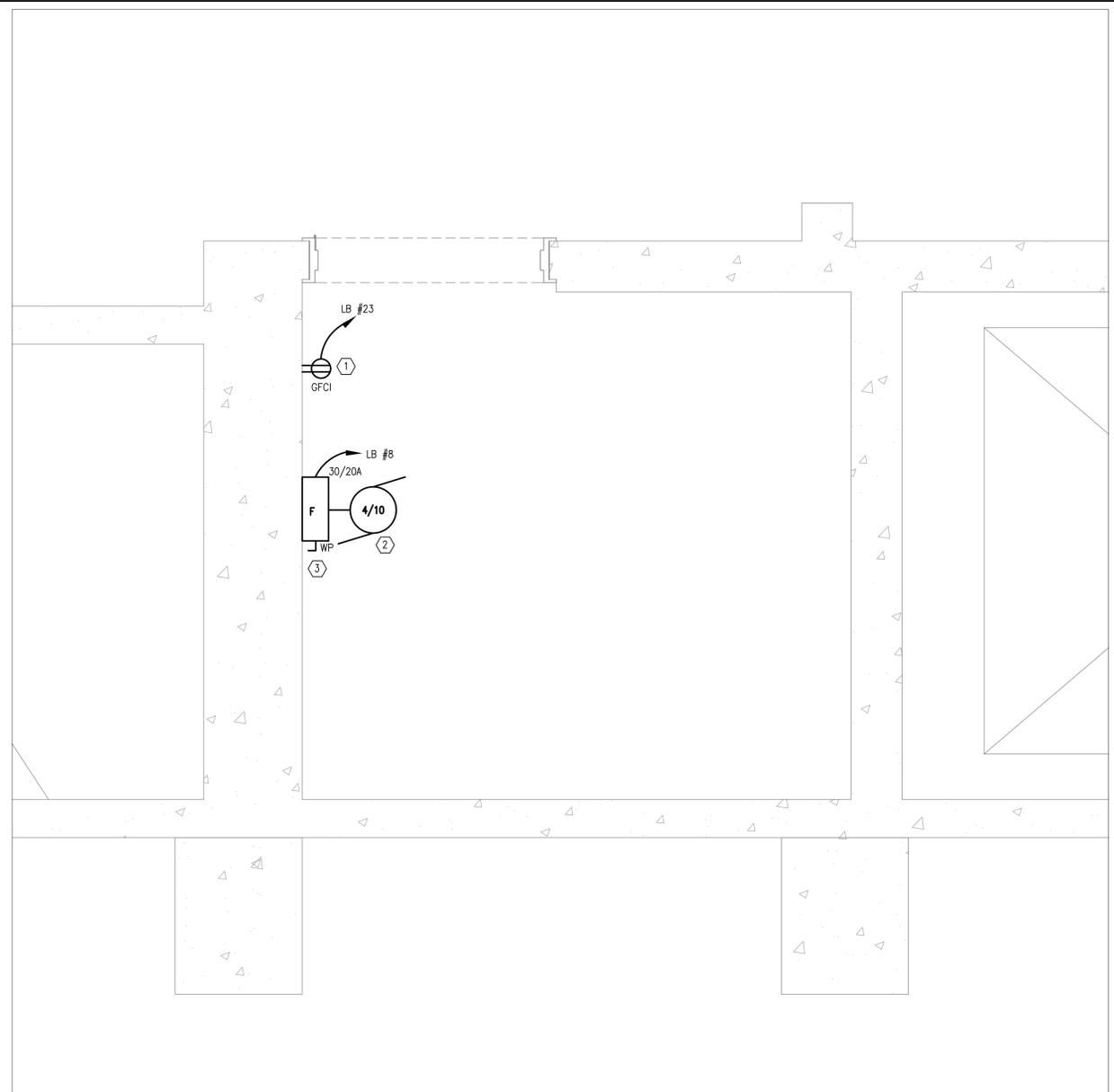
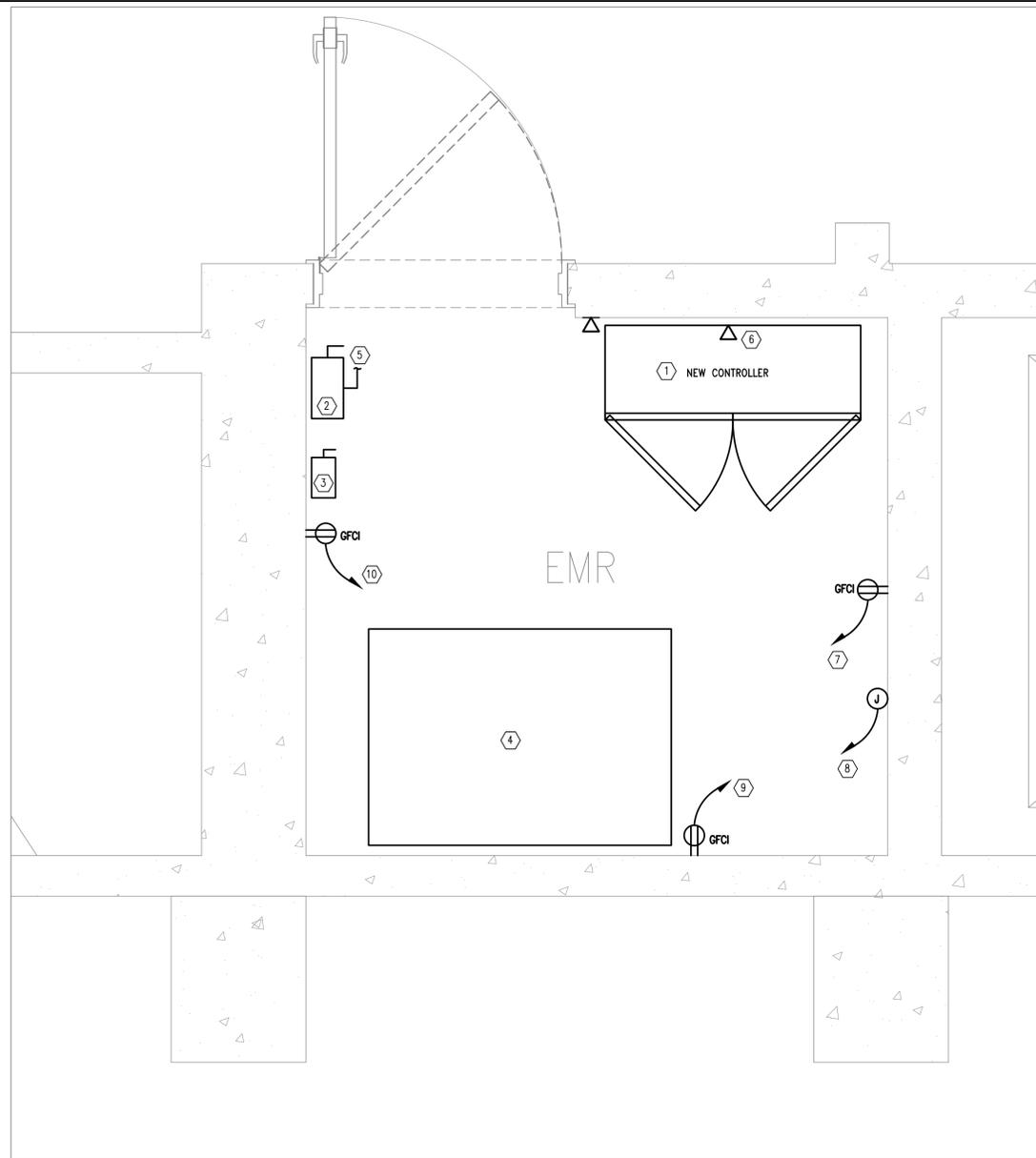
Drawing Title LOWER FLOOR PLAN

Date	Scale	Designed By	Drawn By	Checked By
06/29/2022	AS SHOWN	JJ	JJ	MP

Seal Project No. MNY-2200036.00

Drawing No. E-101

Sheet 8 of 20



1 ELEVATOR MACHINE ROOM POWER PLAN – NEW
E-102 SCALE: 1" = 1'-0"

NOTES:

- FOR GENERAL NOTES, ABBREVIATIONS AND ELECTRICAL SYMBOL LIST, REFER TO DRAWING E-001.
- PROVIDE ALL THE NECESSARY RELAYS, AUXILIARY CONTACTS AND ASSOCIATED REPROGRAMMING NECESSARY. COORDINATE WITH ELEVATOR CONSULTANT FOR INSTALLATION REQUIREMENTS OF ALL ANCILLARY COMPONENTS REQUIRED FOR A FUNCTIONAL ELEVATOR SYSTEM INSTALLATION.

KEY NOTES:

- NEW ELEVATOR CONTROLLER. REFER TO THE ELEVATOR CONSULTANTS DRAWINGS FOR THE EXACT LOCATION AND DIMENSIONS OF THE CONTROLLER. PROVIDE ALL THE NECESSARY RELAYS, AUXILIARY CONTACTS AND ASSOCIATED REPROGRAMMING NECESSARY TO PROVIDE CONNECTION BETWEEN THE EXISTING ELEVATOR RECALL SYSTEM AND THE FIRE ALARM CONTROL PANEL. COORDINATE THIS INSTALLATION WITH FIRE ALARM MAINTENANCE COMPANY. PROVIDE A NEW 1P, 20A CIRCUIT IN NEW PANEL 'LB' TO FEED THE NEW ELEVATOR CONTROLLER. RUN 2#12, 1#12G IN 3/4".
- PROVIDE A NEW 100A LOCKABLE DISCONNECT SWITCH FUSED AT 90A FOR THE NEW ELEVATOR. PROVIDE NEW CONDUITS AND WIRING FROM THE NEW WORK ROOM PANEL LB AS SHOWN ON DRAWING E-101. DISCONNECT SWITCH SHALL BE PROVIDED WITH AUXILIARY CONTACTS FOR BATTERY LOWERING MECHANISM.
- PROVIDE 30A LOCKABLE FUSED DISCONNECT SWITCH FUSED AT 20A FOR ELEVATOR CAB LIGHTING.
- NEW PUMP UNIT.
- 3#2, 1#8G IN 1 1/4" CONDUIT FROM NEW PANEL LB TO THE ELEVATOR MACHINE ROOM FUSED DISCONNECT SWITCH.
- TELEPHONE/INTERCOM FOR EMERGENCY CALL CONNECTED TO AUTODIALER. SEE DWG E-200 FOR RISER DIAGRAM. COORDINATE THE EXACT LOCATION OF DEVICE WITH THE ELEVATOR CONSULTANT.
- PROVIDE A NEW 1P, 20A CIRCUIT IN NEW PANEL 'LB' TO FEED THE NEW DEDICATED OUTLET FOR ELEVATOR INTERCOM SYSTEM. RUN 2#12, 1#12G IN 3/4".
- POWER SUPPLY FOR THE OIL MINDER PUMP CONTROL PANEL. COORDINATE ALL POWER CONNECTION REQUIREMENTS WITH PLUMBING DRAWINGS. THE CONTROL PANEL SHALL BE FED FROM NEW PANEL LB. PROVIDE NEW, 2#12, 1#12G IN 3/4". PROVIDE A NEW 20A, 1P CIRCUIT BREAKER.
- POWER SUPPLY FOR THE CONDENSATE PUMP. COORDINATE ALL POWER CONNECTION REQUIREMENTS WITH MECHANICAL DRAWINGS. THE CONTROL PANEL SHALL BE FED FROM NEW PANEL LB. PROVIDE NEW, 2#12, 1#12G IN 3/4". PROVIDE A NEW 20A, 1P CIRCUIT BREAKER.
- POWER SUPPLY FOR THE CONVENIENCE OUTLET. PROVIDE A NEW 1P, 20A CIRCUIT BREAKER IN NEW PANEL LB AND RUN NEW, 2#12, 1#12G IN 3/4".

2 ELEVATOR PIT POWER PLAN – NEW
E-102 SCALE: 1" = 1'-0"

NOTES:

- FOR GENERAL NOTES, ABBREVIATIONS AND ELECTRICAL SYMBOL LIST, REFER TO DRAWING E-001.

KEY NOTES:

- PROVIDE NEW DUPLEX 20AMP GFCI RECEPTACLE AS SHOWN. RECEPTACLE SHALL BE FED FROM NEW PANEL LB. PROVIDE NEW, 2#12, 1#12G IN 3/4". PROVIDE A NEW 20A, 1P CIRCUIT BREAKER. COORDINATE EXACT LOCATIONS OF DEVICES WITH THE ELEVATOR CONSULTANT.
- NEW OIL MINDER PUMP SHALL BE FED FROM NEW PANEL LB. RUN 2#12, 1#12G IN 3/4". PROVIDE A NEW 20A, 1P CIRCUIT BREAKER.
- PROVIDE A NEW 30A LOCAL DISCONNECT SWITCH FUSED AT 20A FOR THE OIL MINDER PUMP.

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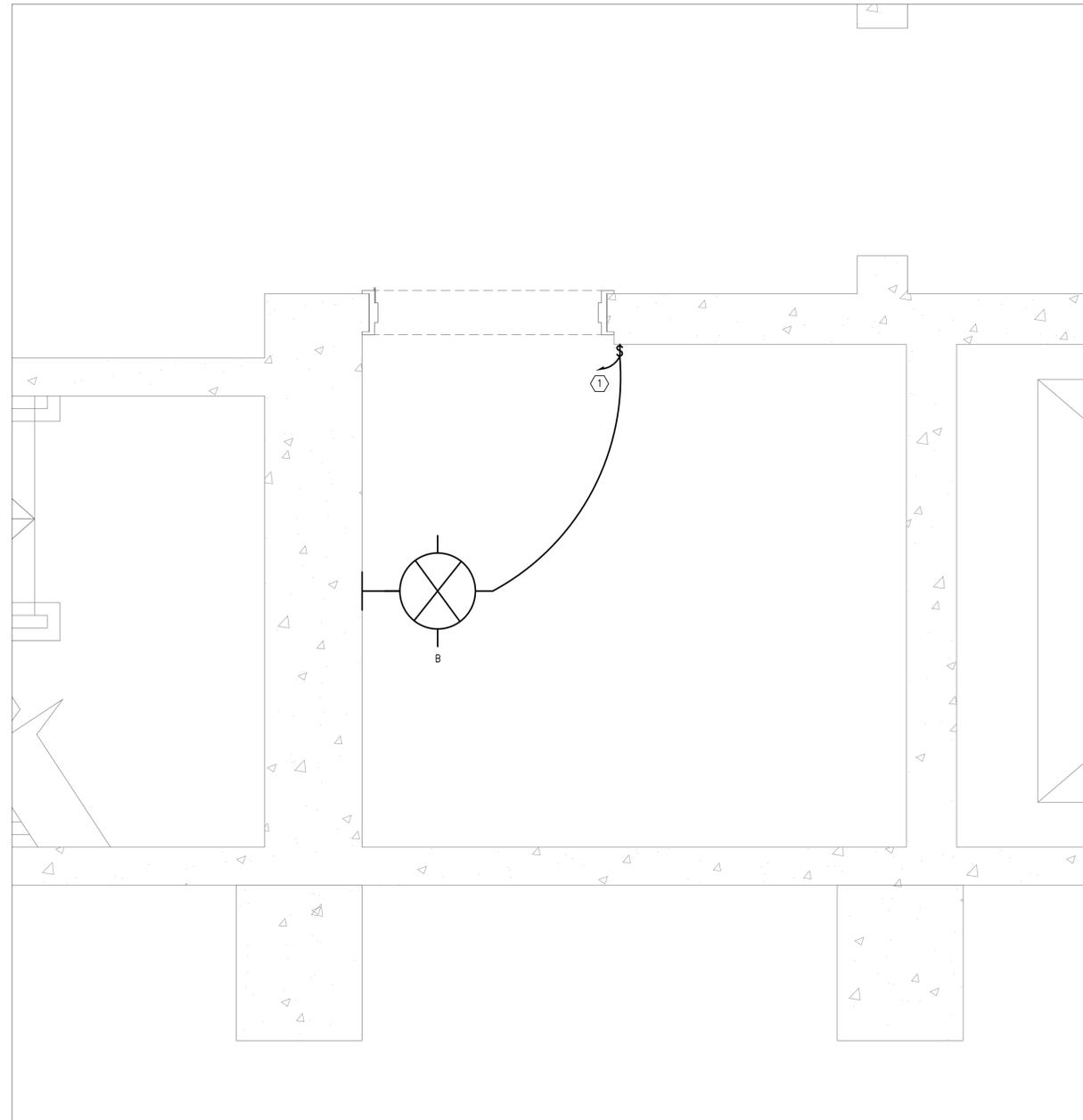
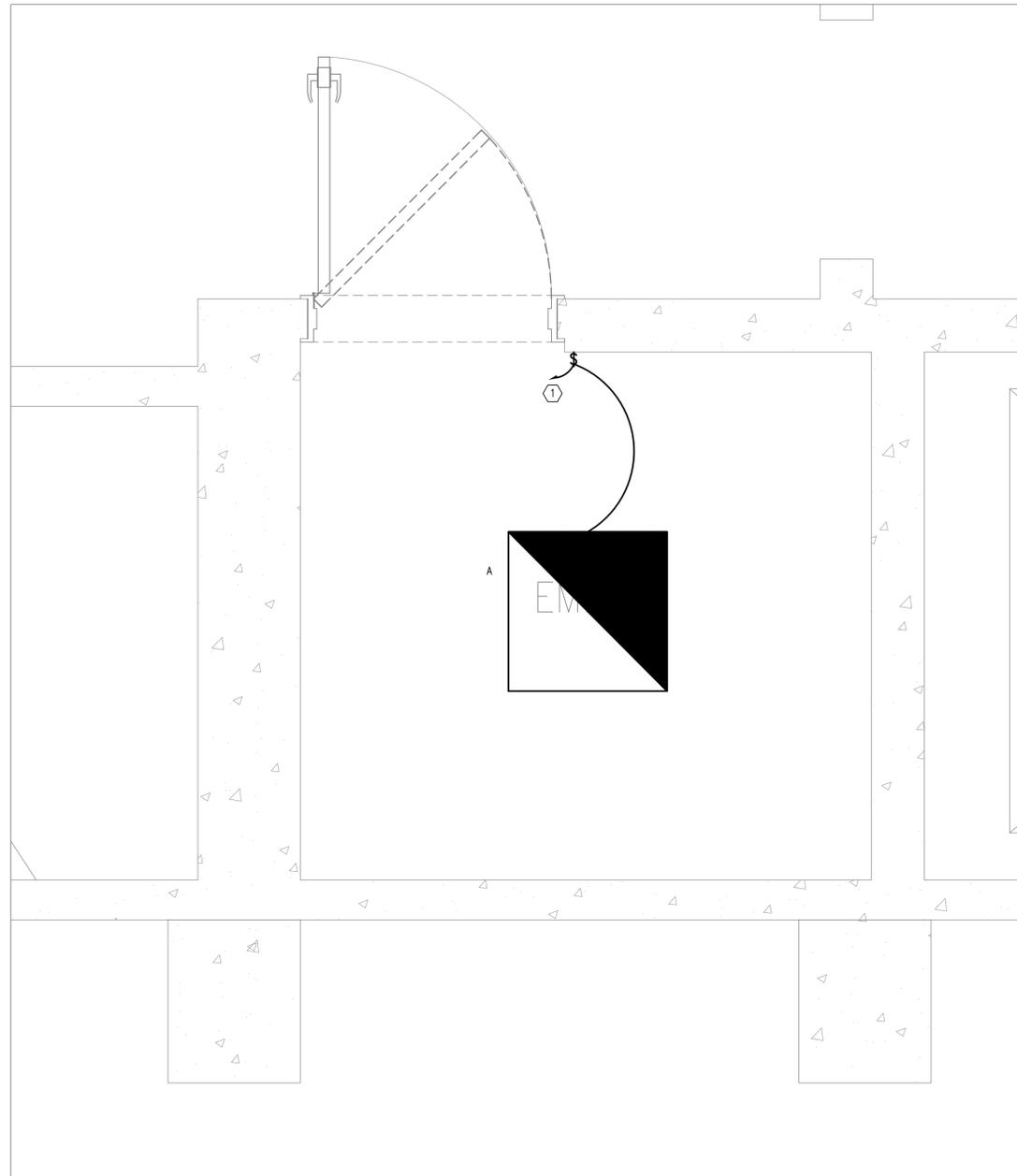
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Drawing Title
**LOWER FLOOR PLAN –
POWER**

Date	Scale	Designed By	Drawn By	Checked By
06/29/2022	AS SHOWN	JJ	JJ	MP

Seal Project No.
MNY-2200036.00

Drawing No.
E-102



1 ELEVATOR MACHINE ROOM LIGHTING PLAN – NEW
E-102 SCALE: 1" = 1'-0"

NOTES:

1. FOR GENERAL NOTES, ABBREVIATIONS AND ELECTRICAL SYMBOL LIST, REFER TO DRAWING E-001.

KEY NOTES:

1 PROVIDE NEW LIGHTING FIXTURE IN THE ELEVATOR MACHINE ROOM AS SHOWN. REFER TO THE LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION. NEW LIGHTING FIXTURES SHALL BE CONNECTED TO NEW PANEL LB. RUN 2#12, 1#12G IN 3/4" CONDUIT. PROVIDE AND INSTALL A NEW 20A, 1P CIRCUIT BREAKER IN THE PANEL. PROVIDE NEW LIGHTING SWITCH AS SHOWN ON THIS DRAWING. COORDINATE EXACT LOCATIONS OF DEVICES WITH THE ELEVATOR CONSULTANT.

2 ELEVATOR PIT LIGHTING PLAN – NEW
E-102 SCALE: 1" = 1'-0"

NOTES:

1. FOR GENERAL NOTES, ABBREVIATIONS AND ELECTRICAL SYMBOL LIST, REFER TO DRAWING E-001.

KEY NOTES:

1 PROVIDE NEW LIGHTING FIXTURE WITH WIRE GUARD IN THE ELEVATOR PIT AS SHOWN. REFER TO THE LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION. NEW LIGHTING FIXTURES SHALL BE CONNECTED TO NEW PANEL LB. RUN 2#12, 1#12G IN 3/4" CONDUIT. PROVIDE AND INSTALL A NEW 20A, 1P CIRCUIT BREAKER IN THE PANEL. PROVIDE NEW LIGHTING SWITCH AS SHOWN ON THIS DRAWING. COORDINATE EXACT LOCATIONS OF DEVICES WITH THE ELEVATOR CONSULTANT.

NEW LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	LAMPS	VOLTS.	MANUFACTURER/MODEL	LOCATION
A	2' X 2' SURFACE MOUNTED LED LIGHT FIXTURE.	SURFACE	LED	120	LITHONTIA BLT SERIES 2BLT2-40LHE-ADP-GZ1-LP835- EL14L, OR APPROVED EQUAL	ELEVATOR MACHINE ROOM
B	WALL MOUNT FIXTURE HEAVY DUTY DIECAST ALUMINUM HOUSING WITH SCREW IN GLASS JAR AND DIECAST ALUMINUM AND 4" DIECAST ALUMINUM JUNCTION BOX. FIXTURE SHALL BE WEATHER PROOF, SUITABLE FOR WET LOCATION.	WALL MOUNTED	LED	120	SIMILAR TO EXCELINE #RLW-42HF-PLT-G-C-GRN-1 OR APPROVED EQUAL	IN ELEVATOR PIT. WALL MOUNTED W/CLEAR GLOBE LENS AND GAGE – KALEIDOSCOPE "VAPORTITE SERIES". PROVIDE LED SCREW-IN TYPE LUMINAIRE.

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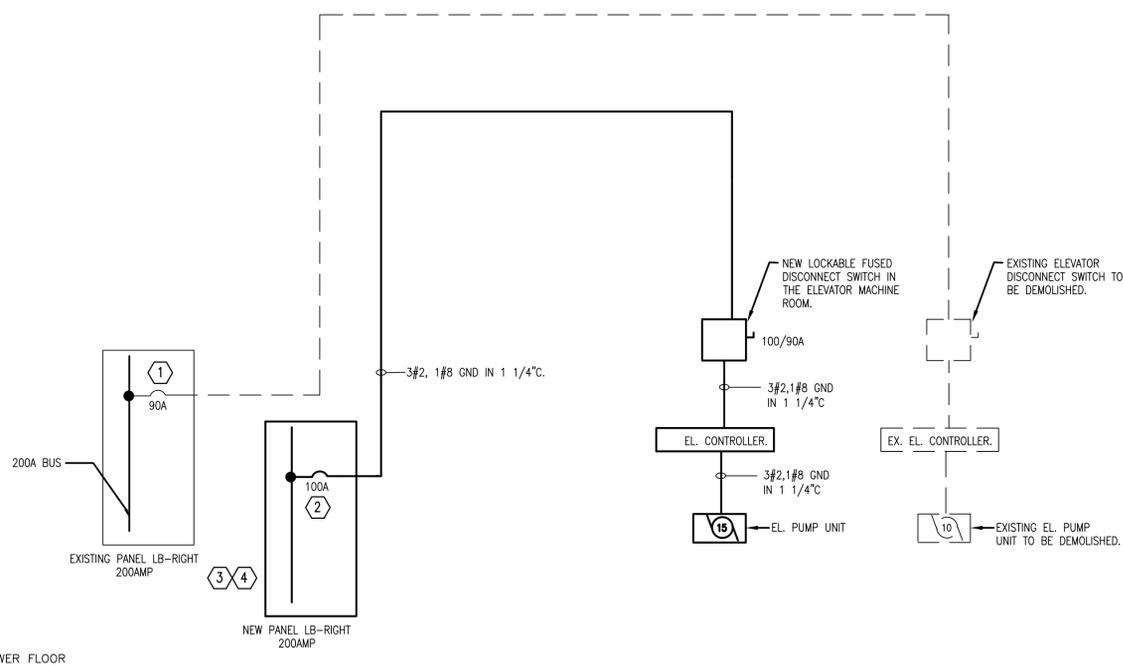
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Drawing Title
LOWER FLOOR PLAN – LTG

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Seal	Project No.
	MNY-2200036.00

Drawing No.
E-103



LOWER FLOOR

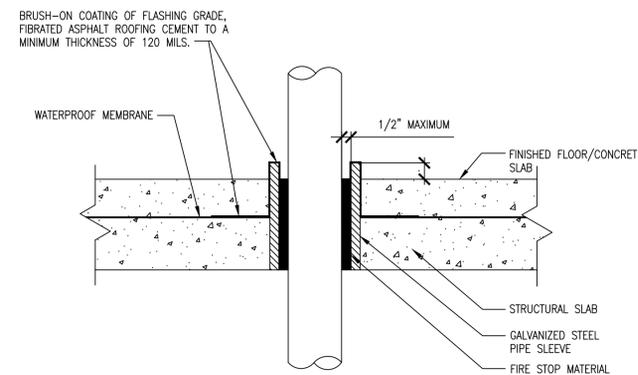
2 POWER ONE LINE DIAGRAM
E200 NOT TO SCALE

INSTALLATION KEY NOTES:

- 1 DISCONNECT AND REMOVE THE EXISTING ELEVATOR FEEDER BACK TO PANEL LB (RIGHT SECTION), CIRCUIT #25. VERIFY EXISTING CIRCUITRY IN THE FIELD.
- 2 PROVIDE A 100A, 3P CIRCUIT BREAKER IN NEW PANEL LB AND RUN 3#2, 1#8G IN 1 1/4" CONDUIT TO THE ELEVATOR MACHINE ROOM FUSED LOCKABLE DISCONNECT SWITCH. REFER TO DRAWING E-102 FOR MORE INFORMATION.
- 3 THE EXISTING FEEDER FED FROM THE MAIN ELEC ROOM TO EXISTING PANEL LB SHALL BE REPLACED WITH NEW TO FEED THE NEW PANEL LB. UTILIZE THE EXISTING 2 1/2" CONDUIT AND RUN 4#3/0, 1#6G. EXTEND THE EXISTING CONDUIT AS NECESSARY FOR A COMPLETE CODE COMPLIANT INSTALLATION IN A NEAT AND WORKMANLIKE MANNER.
- 4 PROVIDE AND INSTALL A NEW 200A, 120/208V, 3PH, 4W, (2) 42 POLE CIRCUIT BREAKER TYPE SURFACE MOUNTED 2-SECTION PANELBOARD LB IN THE WORK ROOM. VERIFY EXACT LOCATION IN FIELD. DISCONNECT ALL EXISTING BRANCH CIRCUITS FED FROM EXISTING PANEL LB, EXTEND AND RECONNECT TO THE NEW PANEL LB. PROVIDE CONDUIT, WIRING, PULLBOXES AS REQUIRED FOR COMPLETE TRANSFER OF ALL EXISTING BRANCH CIRCUITS FROM EXISTING PANEL TO NEW PANEL. THE EXISTING FEDERAL PACIFIC PANEL SHALL BE GUTTED OUT AS NECESSARY AND BE UTILIZED AS A PULL BOX TO EXTEND THE EXISTING BRANCH CIRCUITS. ALL EXTENDED BRANCH CIRCUITS SHALL MATCH THE EXISTING. PROVIDE A COMPLETE, CODE COMPLIANT INSTALLATION IN A NEAT AND WORKMANLIKE MANNER.

NOTES FOR ELEVATOR INTERCOM SYSTEM:

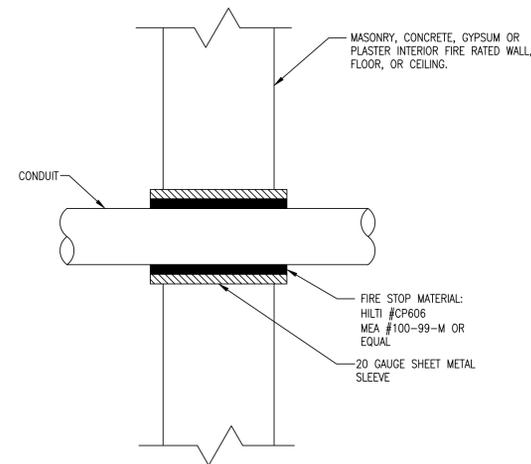
1. THE CONTRACTOR SHALL COORDINATE EXACT SCOPE OF WORK WITH ELEVATOR SPECIFICATIONS, HANDS-FREE AUTO DIAL EMERGENCY TELEPHONE IN ELEVATOR CAB(S), AND NEW MASTER STATION IN MACHINE ROOM; REFER TO ELEVATOR SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE ALL TELEPHONE WORK WITH THE TELEPHONE SYSTEM INTEGRATOR AND THE ELEVATOR CONTRACTOR.
2. PROVIDE MICRO-SWITCH TO TRANSFER POWER FROM NORMAL FEED OVER TO BATTERY UPON LOSS OF POWER TO LOWER ELEVATOR TO THE DESIGNATED FLOOR, CONNECT TWO WIRES BACK FROM THE SWITCH TO THE BATTERY AS REQUIRED BY NEC ARTICLE 620-91(C).
3. VERIFY IN FIELD AND COORDINATE THE EXACT CONDUIT ROUTING AND REQUIREMENTS IN FIELD WITH THE OWNER/ ELEVATOR CONTRACTOR.



NOTES:
1. USE THIS DETAIL WHERE CONDUITS PENETRATE A WATERPROOF SLAB, (I.E. TOILETS, BATHROOMS, JANITORS CLOSET, ETC.)

CONDUIT PENETRATION THROUGH WATERPROOF SLAB

SCALE: NOT TO SCALE

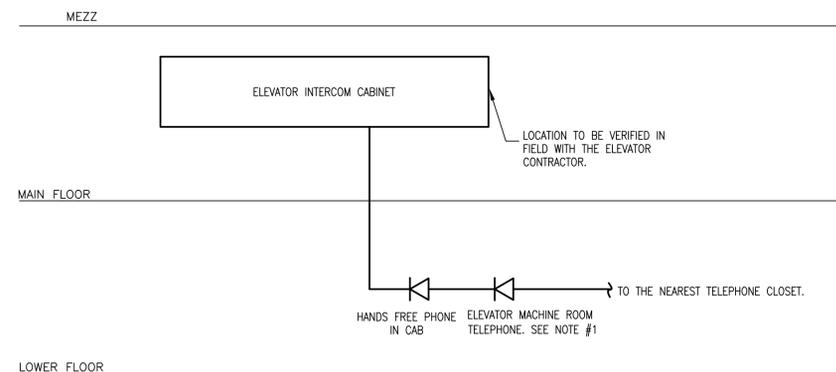


NOTES:

1. USE THIS DETAIL WHERE CONDUITS PASS THROUGH FIRE RATED WALL.
2. WHERE CONDUITS PASS THROUGH FOUNDATION WALLS, FLOOR SLAB ON EARTH, ROOF, CONCRETE BEAM, BRICK WALL, OR WATER PROOF FLOORS, USE PIPE SLEEVES.

CONDUIT PENETRATION IN INTERIOR WALL

SCALE: NOT TO SCALE



LOWER FLOOR

1 ELEVATOR INTERCOM SYSTEM RISER DIAGRAM
E200 NOT TO SCALE

No.	Revision	Date	By
0	BID SUBMISSION	06/29/2022	JDL

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Drawing Title

RISER DIAGRAMS

Date	Scale	Designed By	Drawn By	Checked By
06/29/2022	AS SHOWN	JJ	JJ	MP

Seal Project No. MNY-2200036.00

Drawing No. E-200

FIRE DETECTION & ALARM SYSTEM

SYMBOL	DESCRIPTION
FACP	FIRE SYSTEM CONTROL PANEL
F	FIRE SYSTEM PULL STATION
G	FIRE SIGNAL STROBE – SUBSCRIPT 'G' DENOTES WITH GUARD
G	FIRE SIGNAL HORN WITH FIRE SIGNAL STROBE. SUBSCRIPT 'G' DENOTES WITH GUARD
EL	WIRELESS SMOKE DETECTOR – SUBSCRIPT 'D' INDICATES DUCT MOUNTED, SUBSCRIPT 'EL' INDICATES FOR ELEVATOR RECALL
H	WIRELESS HEAT DETECTOR
DGP	DATA GATHERING PANEL
FSD	MOTORIZED FIRE AND SMOKE DAMPER
FARA	FIRE ALARM REMOTE ANNUNCIATOR
DH	MAGNETIC DOOR HOLDER
TTS	FIRE ALARM TAMPERSwitch
WF	WATER FLOW SWITCH
B	6" TROUBLE BELL
CR	CONTROL RELAY MODULE
R	RELAY OUTPUT FOR FAN SHUT DOWN
MM	FIRE ALARM INTERFACE MONITORING MODULE
O	FIRE ALARM RISER
⊕	POWER RECEPTACLE
FA	TELEPHONE CONNECTION FOR FIRE ALARM SYSTEM
J	JUNCTION BOX
RP	RELAY/ REPEATER PANEL
⊖	WIRELESS CO DETECTOR
⊠	FIRE PROTECTIVE ALARM SYSTEM COMBINATION LOUDSPEAKER AND VISUAL STATION

NOTE: NOT ALL SYMBOLS ON THE SYMBOL LIST ARE NECESSARILY UTILIZED IN THIS CONTRACT.

SCOPE OF WORK

THE WORK REQUIRES UPGRADE OF THE FIRE ALARM SYSTEM AS DETAILED IN THE CONTRACT DOCUMENTS AND SPECIFICATIONS. THE WORK GENERALLY REQUIRES THE FOLLOWING:

1. PROVIDE AND INSTALL NEW FIRE ALARM DEVICES IN THE ELEVATOR LOBBY, SHAFT MACHINE ROOM AND THE ELEVATOR PIT. PROVIDE NEW WIRING AND CONDUITS FOR CONNECTION TO ELEVATOR CONTROLLER AND FACP AS REQUIRED. PROVIDE ELEVATOR TELEPHONE CONNECTION TO FIRE COMMAND CENTER AS REQUIRED.

GENERAL NOTES:

1. ALL WIRING, POWER, CONDUCTORS, CONDUITS ETC. SHALL MEET NEW YORK STATE ELECTRICAL CODE.
2. ALL WORK SHALL BE IN ACCORDANCE WITH NEW YORK STATE BUILDING CODE.
3. ALL FIRE ALARM CIRCUITS SHALL BE SIZED TO A MAXIMUM OF 80% OF CAPACITY.
4. CONDUITS MAY NOT ENTER THE TOP OF ANY FIRE ALARM EQUIPMENT CABINET.
5. ALL FIRE ALARM EQUIPMENT SHALL BE INSTALLED WITH AESTHETICS IN MIND. CABINETS SHALL BE SEMI FLUSH MOUNTED AND CABLE TRAYS SHALL BE HIDDEN. PAINT ALL NEW CONDUIT AND BOXES TO MATCH EXISTING CONDITIONS. PATCH AND PAINT LOCATIONS OF REMOVED BOXES TO MATCH EXISTING.
6. ALL FIRE ALARM CABINETS AND JUNCTION BOXES SHALL BE PAINTED FIRE DEPARTMENT RED. ALL FIRE ALARM CABINETS SHALL BE CLEARLY LABELED WITH A NEW YORK STATE APPROVED LAMINATE ENGRAVED LABEL.
7. ALL FIRE ALARM WIRE SHALL BE CLEARLY LABELED IN JUNCTION BOXES AND CABINETS. ALL TERMINALS SHALL BE NUMBERED AND LABELED. ALL CONNECTIONS SHALL BE EITHER SOLDERED, APPROVED TERMINAL STRIPS OR SCOTCH LOCKS.
8. POLARITY SHALL BE OBSERVED ON ALL CIRCUITS. T-TAPPING SHALL NOT BE ALLOWED.
9. ALL WIRING SHALL BE INSPECTED TO ASSURE THERE ARE NO OPENS, SHORTS OR EARTH GROUNDS.
10. SHIELDED CONDUCTORS OR RUNNING IN SEPARATE RACEWAY SHALL BE AS INSTRUCTED BY THE FIRE ALARM MANUFACTURER'S DOCUMENTATION. ALL NON-POWER LIMITED WIRING, INCLUDING CIRCUITS FOR CENTRALIZED AMPLIFIERS SHALL BE RUN IN A SEPARATE RACEWAY (NOTE: CENTRALIZED AMPLIFIERS ARE NOT PERMITTED ON NEW SYSTEMS).
11. A CENTRAL STATION DIALER AND TWO DEDICATED PHONE LINES SHALL BE PROVIDED. THE DIALER SHALL BE CAPABLE OF SENDING THE FOLLOWING EVENTS: ALARM, MANUAL STATION, WATERFLOW, SUPERVISORY, TROUBLE, PUMP RUNNING AND PUMP TROUBLE.
12. ALL AREA OR DUCT SMOKE DETECTORS SHALL BE PHOTO-ELECTRIC TYPE.
13. SMOKE DETECTORS MUST BE MOUNTED AT LEAST 3 FT AWAY FROM ANY AIR REGISTER.
14. ALL CEILING MOUNT DEVICES MUST BE SECURELY FASTENED TO BUILDING CONSTRUCTION.
15. DEVICE LOCATIONS MUST BE READILY ACCESSIBLE TO ALLOW FOR MAINTENANCE AND REPAIR.
16. ALL AUXILIARY RELAYS FOR ELEVATOR CONTROL SHALL BE WIRED A MAXIMUM OF 3 FT FROM THE CONTROLLED DEVICE. THE AUXILIARY RELAY SHALL FUNCTION WITHIN THE REQUIRED VOLTAGE AND CURRENT OF THE CONTROLLED DEVICE. SLAVE OR INTERPOSING RELAYS SHALL BE INCLUDED AND POWERED BY THE FIRE ALARM CONTROL PANEL IN A FAIL-SAFE (FIRE FUNCTION) POSITION. POWER TO THE INTERPOSING RELAY SHALL BE MONITORED BY THE FIRE ALARM SYSTEM.
17. LOCATIONS OF ALL FIRE ALARM EQUIPMENT SHALL BE SUBJECT TO THE REQUIREMENTS OF THE NEW YORK STATE BUILDING CODE. NO CHANGE OR MODIFICATION TO THE SYSTEM OR PLANS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD. IF ANY CHANGES ARE MADE TO THE DRAWINGS PRIOR TO OR DURING INSTALLATION, AS BUILT PLANS SHALL BE PREPARED BY THE ENGINEER AND FILED WITH THE APPROPRIATE NEW YORK STATE AGENCIES FOR FINAL ACCEPTANCE.
18. THE CONTRACTOR SHALL RETAIN A NY STATE PE TO SIGN AND SEAL ALL NECESSARY DOCUMENTS REQUIRED FOR INSPECTION AND TO OBTAIN A FINAL LETTER OF APPROVAL. THIS SHALL INCLUDE A SIGNED AND SEALED 11X17 AS-BUILT DRAWING, STATEMENT OF OPERATION, AN NFPA PROGRAMMING MATRIX, AND THE CONTRACTORS SIGNED AND SEALED A-433 FORM. THESE DOCUMENTS SHALL BE SUBMITTED AS NECESSARY TO THE NEW YORK STATE FIRE DEPARTMENT/NEW YORK STATE DEPARTMENT OF BUILDINGS TO OBTAIN A FIRE ALARM INSPECTION. IF A LETTER OF DEFECT IS ISSUED, THE CONTRACTOR SHALL CORRECT ALL ITEMS AND SUBMIT A SIGNED AND SEALED CERTIFICATE OF CORRECTION TO THE NEW YORK STATE FIRE DEPARTMENT TO OBTAIN A FINAL LETTER OF APPROVAL AT NO ADDITIONAL COST.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY AND ALL ABANDONED FIRE ALARM CABINETS, DEVICES, AND WIRE. PAINT, PATCH AND CLEANUP SHALL ALSO BE INCLUDED.
20. FOR APPLICATIONS REQUIRING A FIRE ALARM SYSTEM REPLACEMENT (FCC, FACP, OR SOP, SSCP ETC), THE CONTRACTOR SHALL BE RESPONSIBLE FOR INTERFACING THE NEW SYSTEM WITH THE OLD SYSTEM SO THAT THEY ACT AS ONE. ONCE SYSTEM APPROVAL IS GRANTED, THE CONTRACTOR SHALL THEN BE RESPONSIBLE FOR REMOVING THE OLD SYSTEM INCLUDING REMOVING OLD WIRE AND CONDUIT, PATCH, PAINT, AND CLEANUP. FIRE WATCH, IF NECESSARY, SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
21. LOCATION OF DEVICES AND EQUIPMENT ARE APPROXIMATE. FINAL LOCATIONS MUST BE DETERMINED ACCORDING TO THE SITE CONDITIONS.
22. GROUND FIRE ALARM PANEL TO MAIN ELECTRICAL SYSTEM GROUND. IF NOT AVAILABLE GROUND TO MAIN WATER MAIN WITH A MINIMUM #10 CONDUCTOR.
23. CONDUITS SHALL BE ELECTRIC METALLIC TUBING (EMT) AS REQUIRED, 3/4" MINIMUM.
24. IONIZATION TYPE SMOKE DETECTORS SHALL BE USED FOR ALL ELECTRICAL EQUIPMENT ROOMS AND ELECTRICAL CLOSETS.

Fire Alarm System I/O Matrix

	SYSTEM INPUTS													SYSTEM OUTPUTS												
	A	B	C	D	E	F	G	H	I	J	K	L	M	A	B	C	D	E	F	G	H	I	J	K	L	M
1 SMOKE DETECTORS	X	X	X	X	X	X	X	X	X	X	X	X	X													
2 ELEVATOR LOBBY & ELEVATOR MACHINE RM. SMOKE DETECTORS	X	X	X	X	X	X	X	X	X	X	X	X	X													
3 IN-DUCT SMOKE DETECTORS	X	X	X	X	X	X	X	X	X	X	X	X	X													
4 SPRINKLER FLOW SWITCH	X	X	X	X	X	X	X	X	X	X	X	X	X													
5 SPRINKLER TAMPERSwitch				X	X	X	X	X	X	X	X	X	X													
6 OPEN CIRCUIT				X	X	X	X	X	X	X	X	X	X													
7 GROUND FAULT				X	X	X	X	X	X	X	X	X	X													
8 FIRE ALARM AC POWER FAILURE				X	X	X	X	X	X	X	X	X	X													
9 FIRE ALARM SYSTEM LOW BATTERY				X	X	X	X	X	X	X	X	X	X													

SEQUENCE OF OPERATION

SEQUENCE TO MATCH EXISTING.

INDIVIDUALLY CODED FIRE ALARM SYSTEM WITH VOICE

A. ACTIVATION OF AN AREA SMOKE DETECTOR SHALL:

1. CAUSE SAME SYSTEM OPERATIONS AND FUNCTIONS AS MANUAL FIRE ALARM PULL STATION ON THAT FLOOR EXCEPT THAT A DISTINCT CODE SHALL BE ASSIGNED FOR THE SMOKE DETECTOR ZONE IN ALARM AND INDICATE A VISUAL ALARM IDENTIFYING THE ZONE IN ALARM AT THE FIRE ALARM PANEL.
2. SHUT DOWN AIR CONDITIONING AND FAN SYSTEMS SERVING THAT FLOOR.
3. CLOSE ALL ASSOCIATED AUTOMATIC FIRE AND SMOKE DAMPERS ON THE FLOOR IN ALARM.
4. CAUSE THE ACTIVATION OF THE AIR EXHAUST FANS AND DAMPERS IN SMOKE SHAFTS AND/OR THE PRESSURIZATION FANS IN STAIR ENCLOSURES.

B. ACTIVATION OF ELEVATOR LOBBY (ELEVATOR RECALL) OR ELEVATOR MACHINE ROOM DETECTORS SHALL:

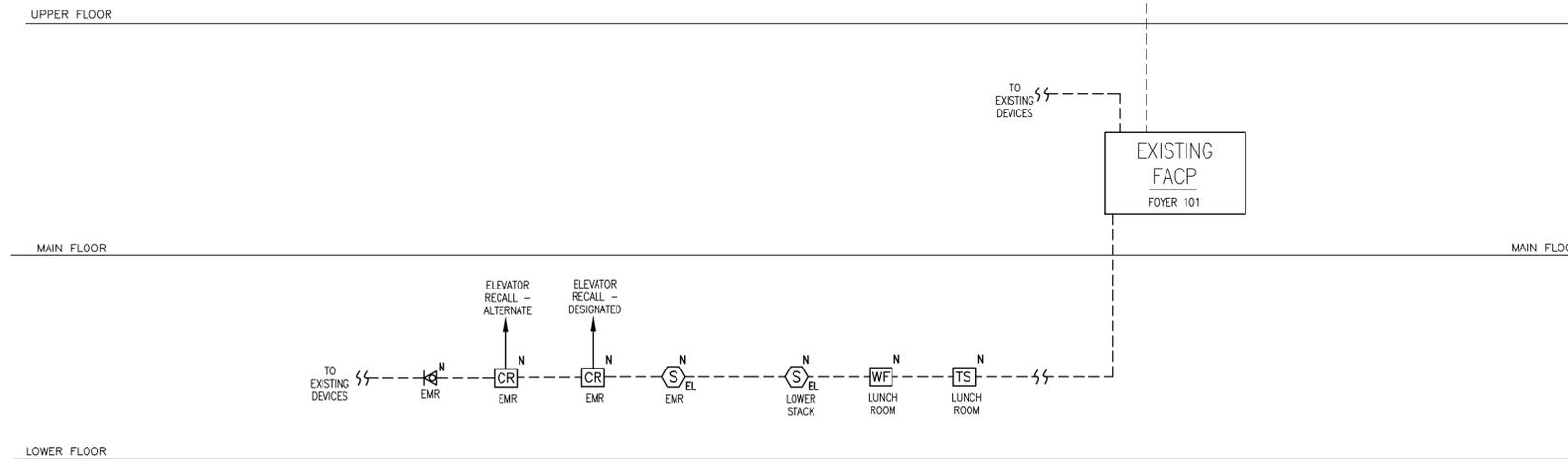
1. CAUSE THE SAME SYSTEM OPERATIONS AND FUNCTIONS AS AN AREA SMOKE DETECTOR.
2. RECALL ELEVATORS SERVED TO THE FLOOR DESIGNATED OR THE ALTERNATE FLOOR (REFER TO ELEVATOR RECALL SCHEDULE SECTION 210.13C OF RS18-1).
3. INITIATE AUDIBLE AND VISUAL ALARMS IN CARS.

C. ACTUATION OF ANY SYSTEM TROUBLE ALARM SHALL:

1. INITIATE AUDIBLE AND INDIVIDUAL VISUAL ALARMS AT THE FIRE ALARM CONTROL PANEL.
2. CAUSE A SILENCEABLE AUDIBLE AND A PERSISTENT VISUAL ALARM AT THE REMOTE ANNUNCIATOR.
3. RECORD RELEVANT ALARM TYPE AND LOCATION DATA VIA THE SYSTEM RECORDER.

RISER NOTES:

1. LOCATION OF DEVICES AND EQUIPMENT ARE APPROXIMATE. FINAL LOCATIONS MUST BE DETERMINED ACCORDING TO THE SITE CONDITIONS.
2. N – DENOTES NEW DEVICE, WITH NEW CONDUIT AND WIRING.
3. ALL CONDUITS AND CONTROL PANELS SHALL BE GROUNDED.
4. THE PARTIAL RISER DIAGRAM ON THIS DRAWING IS FOR DESIGN PURPOSE ONLY. FIRE ALARM CONTRACTOR SHALL PROVIDE A COMPLETE RISER DIAGRAM WITH ACTUAL FIELD WIRING REQUIRED.
5. EACH FIRE ALARM INITIATING AND INDICATING CIRCUIT SHALL BE ELECTRICALLY SUPERVISED.
6. EACH VISUAL FIRE ALARM CIRCUIT SHALL CONTAIN AT LEAST 20% SPARE CAPACITY.
7. ALL CONTROL PANELS AND REPEATERS SHALL BE PROPERLY LABELED WITH MINIMUM 1/4" HIGH LETTERS.
8. CONTRACTOR TO PROVIDE ALL REQUIRED FIRE ALARM PANEL REPROGRAMMING AND OTHER REQUIRED MODULES TO ACCOMMODATE THE INITIATING AND NOTIFICATION DEVICES IN THIS CONTRACT. VERIFY AND COORDINATE WITH BUILDING FIRE ALARM MAINTENANCE VENDOR.
9. CONTRACTOR SHALL PROVIDE ALL NECESSARY COMPONENTS AND PROGRAMMING TO ADD ELEVATOR RECALL FUNCTIONALITY TO THE EXISTING ADEMCO WIRELESS FIRE ALARM SYSTEM.
10. ALL FIRE ALARM DEVICES TO BE INSTALLED UNDER THIS CONTRACT SHALL BE COMPATIBLE AND CONSISTENT WITH THE EXISTING FIRE ALARM PANEL. VERIFY AND COORDINATE WITH SYSTEM MANUFACTURER AND/OR SYSTEM VENDOR FOR TYPE OF FIRE ALARM DEVICES TO BE USED.
11. THIS CONTRACTOR SHALL OBTAIN SERVICES OF THE CURRENT FIRE ALARM VENDOR TO FACILITATE THE FINAL CONNECTIONS TO THE FIRE ALARM CONTROL PANEL.



1 PARTIAL FIRE ALARM RISER DIAGRAM
FA001 NOT TO SCALE

No.	Revision	Date	By
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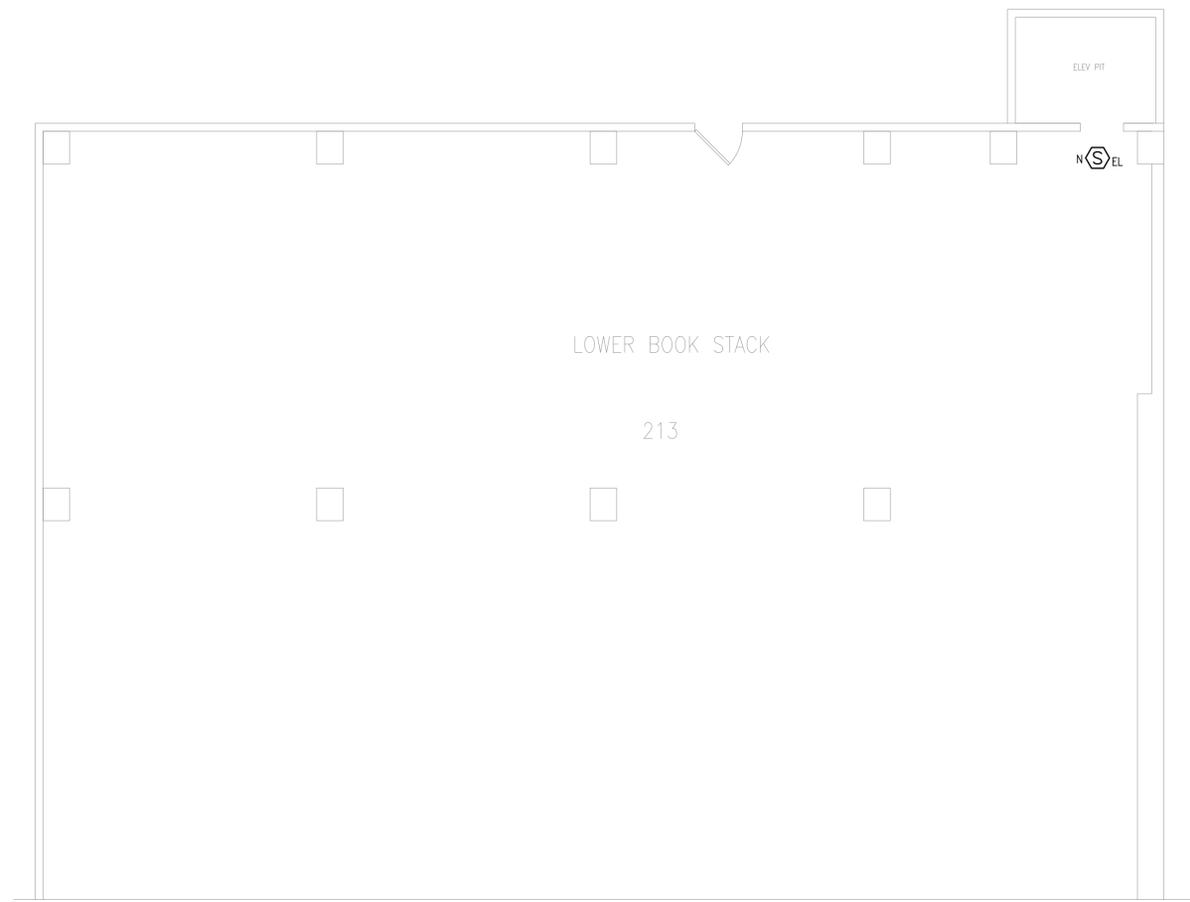
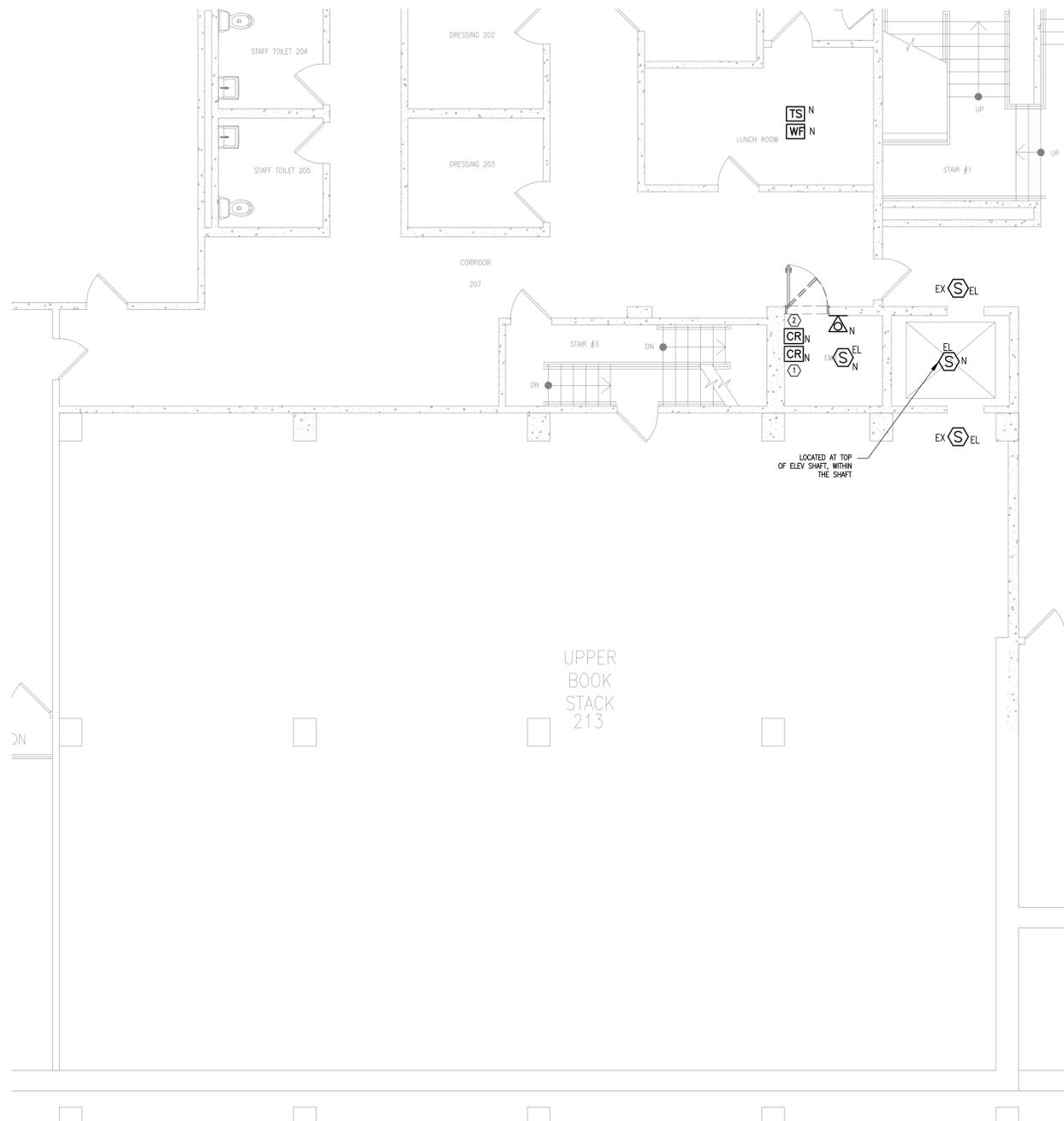
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Drawing Title
FIRE ALARM GENERAL NOTES

Date	Scale	Designed By	Drawn By	Checked By
06/29/2022	AS SHOWN	JJ	JJ	MP

Seal Project No. MNY-2200036.00

Drawing No. FA-001



1 PARTIAL LOWER FLOOR PLAN – UPPER BOOK STACK LEVEL
FA-101 SCALE: 3/16" = 1'-0"

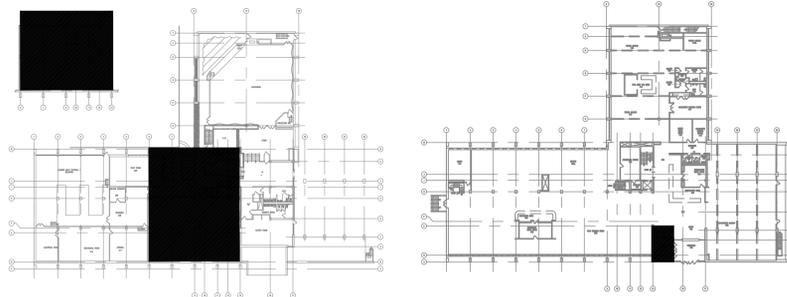
2 PARTIAL LOWER FLOOR PLAN – LOWER BOOK STACK LEVEL
FA-101 SCALE: 3/16" = 1'-0"

NOTE:

- COORDINATE IN THE FIELD FOR EXACT LOCATION OF DEVICES.
- EX – DENOTES EXISTING DEVICE, ALONG WITH THE CONDUIT AND WIRING, TO REMAIN.
N – DENOTES NEW DEVICE, WITH NEW CONDUIT AND WIRING.
- CONTRACTOR TO PROVIDE ALL REQUIRED FIRE ALARM PANEL REPROGRAMMING AND ADD OTHER REQUIRED MODULES TO ACCOMMODATE THE INITIATING AND NOTIFICATION DEVICES IN THIS CONTRACT. VERIFY AND COORDINATE WITH BUILDING FIRE ALARM MAINTENANCE VENDOR.
- PROVIDE CONNECTION BETWEEN EXISTING FIRE ALARM CONTROL PANEL AND THE NEW ELEVATOR CONTROLLER. ACTIVATION OF THE FACP SHALL DELIVER A SIGNAL TO THE ELEVATOR CONTROL PANEL TO ACTIVATE ELEVATOR RECALL. COORDINATE THIS INSTALLATION WITH FIRE ALARM MAINTENANCE COMPANY.
- PROVIDE CONNECTION BETWEEN NEW WATER FLOW SWITCH AND THE NEW ELEVATOR CONTROLLER. ACTIVATION OF THE WATER FLOW SWITCH SHALL DELIVER A SIGNAL TO THE ELEVATOR CONTROL PANEL TO ACTIVATE ELEVATOR RECALL.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY COMPONENTS AND PROGRAMMING TO ADD ELEVATOR RECALL FUNCTIONALITY TO THE EXISTING ADEMCO WIRELESS FIRE ALARM SYSTEM.
- ALL FIRE ALARM DEVICES TO BE INSTALLED UNDER THIS CONTRACT SHALL BE COMPATIBLE AND CONSISTENT WITH THE EXISTING FIRE ALARM PANEL. VERIFY AND COORDINATE WITH SYSTEM MANUFACTURER AND/OR SYSTEM VENDOR FOR TYPE OF FIRE ALARM DEVICES TO BE USED.

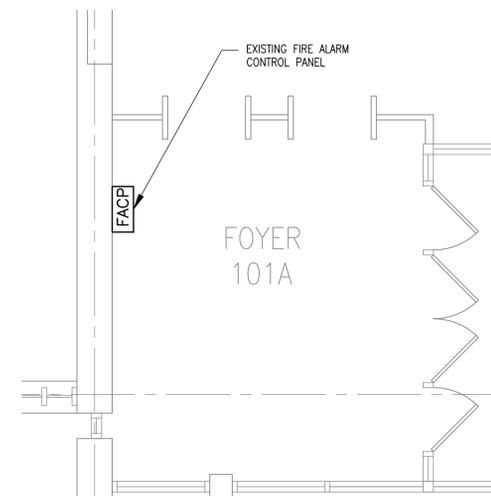
KEY NOTES:

- NEW RELAY TO THE EXISTING FIRE ALARM CONTROL PANEL FOR ELEVATOR RECALL TO THE DESIGNATED LEVEL.
- NEW RELAY TO THE EXISTING FIRE ALARM CONTROL PANEL FOR ELEVATOR RECALL TO THE ALTERNATE LEVEL.



4 AREA OF WORK – LOWER FLOOR
FA-101 SCALE: NTS

5 AREA OF WORK – MAIN FLOOR
FA-101 SCALE: NTS



3 PARTIAL MAIN FLOOR PLAN – FACP LOCATION
FA-101 SCALE: 1/4" = 1'-0"

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Drawing Title
**LOWER FLOOR
FIRE ALARM PLAN**

Date	Scale	Designed By	Drawn By	Checked By
06/29/2022	AS SHOWN	JJ	JJ	MP

Seal Project No.
MNY-2200036.00

Drawing No.
FA-101

Sheet 13 of 20

GENERAL NOTES

- SUPERVISING CONTRACTOR SHALL REFER TO AND COORDINATE WITH MECHANICAL, STRUCTURAL, ELECTRICAL AND ELEVATOR DRAWINGS AND INDIVIDUAL SCOPE OF WORK FOR EXACT DESCRIPTION OF EACH CONTRACTOR'S RESPONSIBILITIES.
- INDIVIDUAL CONTRACTORS SHALL REFER TO AND COORDINATE WITH ARCHITECTURAL, ELECTRICAL, ELEVATOR AND STRUCTURAL DRAWINGS, INCLUDING WORK FOR ALL CONCRETE PADS, WALL/ROOF PENETRATIONS, TRENCHING, PUMP PITS AND OTHER RELEVANT DETAILS.
- CONTRACTOR SHALL CHECK AND VERIFY THE EXACT LOCATION OF ALL PIPE PENETRATIONS, SUPPORTS AND ROUTING AND MAKE CERTAIN THERE ARE NO OBSTRUCTIONS AND INTERFERENCES. PRIOR TO INSTALLATION.
- CONTRACTOR SHALL FURNISH AND MOUNT ALL MOTORS, STARTERS AND CONTROL DEVICES FOR ALL EQUIPMENT SUPPLIED. REFER TO ELECTRICAL DRAWINGS FOR MOTORS AND CONTROL EQUIPMENT.
- CONTRACTOR SHALL REFER TO AND COORDINATE WITH ELECTRICAL DRAWING AND WORK ENSURING NO PIPE IS RUN DIRECTLY ABOVE NOR WITHIN THREE FEET OF ELECTRICAL PANELS.
- ALL PIPES PENETRATED THROUGH WALLS, FLOORS, AND UNDERGROUND FOUNDATION WALLS SHALL BE PROVIDED WITH REQUIRED OPENINGS, SLEEVES, SEALS AND FIRE STOP PACKINGS AS NECESSARY.
- ALL PIPE ROUTING DETAILED IN THE DESIGN DRAWINGS DEPICT SUGGESTED ROUTING AND LOCATIONS. CONTRACTOR SHALL FIELD VERIFY ALL ROUTING PRIOR TO DEMOLITION OR INSTALLATION. ALTERNATE PIPE ROUTING BASED ON FIELD CONDITIONS IS ACCEPTABLE BASED ON ENGINEER AND FACILITY APPROVALS.
- SEE ELECTRICAL DRAWINGS AND DETAILS FOR INSTALLATION AND FINAL CONNECTION FOR SPRINKLER FLOW SWITCHES. ALL SPRINKLER PIPING AND WORK SHALL BE DONE I.A.W. NFPA 13.
- MECHANICAL & ELECTRICAL CONTRACTORS TO COORDINATE WITH EACH OTHER THE QUANTITY, LOCATION AND SIZE OF ALL WALL, FLOOR & ROOF PENETRATIONS.
- MECHANICAL CONTRACTOR TO FIRESTOP AND WEATHERPROOF ALL PENETRATIONS.

PIPE SUPPORTS

- PROVIDE ADEQUATE SUPPORT FOR ALL PIPE AND IN-LINE COMPONENTS TO PREVENT VIBRATION OR SWAYING, AND TO ASSURE THAT EQUIPMENT IS NOT STRESSED BY PIPING WEIGHT OR EXPANSION, AS PER CODE.
- FOR COPPER PIPE AND TUBING, USE CLAMPS AND SUPPORTS, WITH ELECTROPLATED COPPER FINISH.
- MAXIMUM SUPPORT SPACING FOR HORIZONTAL PIPING:
 - A. STEEL: 6 FEET
 - B. COPPER/TUBING 2 INCH AND SMALLER: 6 FEET.
 - C. POLYPROPYLENE PIPE : 5 FEET
- PROVIDE ADDITIONAL SUPPORTS AT CHANGES IN DIRECTION, BRANCH PIPING AND RUN OUTS OVER 4 FEET AND CONCENTRATED LOADS DUE TO VALVES, AND OTHER SIMILAR ITEMS.
- PROVIDE SUITABLE AND SUBSTANTIAL SUPPORTS FOR ALL PIPING. DO NOT HANG PIPING FROM DUCTWORK OR OTHER PIPING. HANGERS OR AS APPROVED:
 - SWIVEL SPLIT RING, GRINNELL FIG. 104
 - WROUGHT & PIPE CLAMP, GRINNELL FIG. 216
 - ADJUSTABLE WROUGHT CLEVIS, GRINNELL FIG. 260
- CONNECTION TO STRUCTURE FOR PIPING SUPPORTS; USE BEAM CLAMPS OR SUITABLE EXPANDABLE ANCHOR BOLTS.
- CONTRACTOR TO SUBMIT FOR APPROVAL ALL PERTINENT DESIGN DATA RELATING TO SUPPORT OF PIPE.

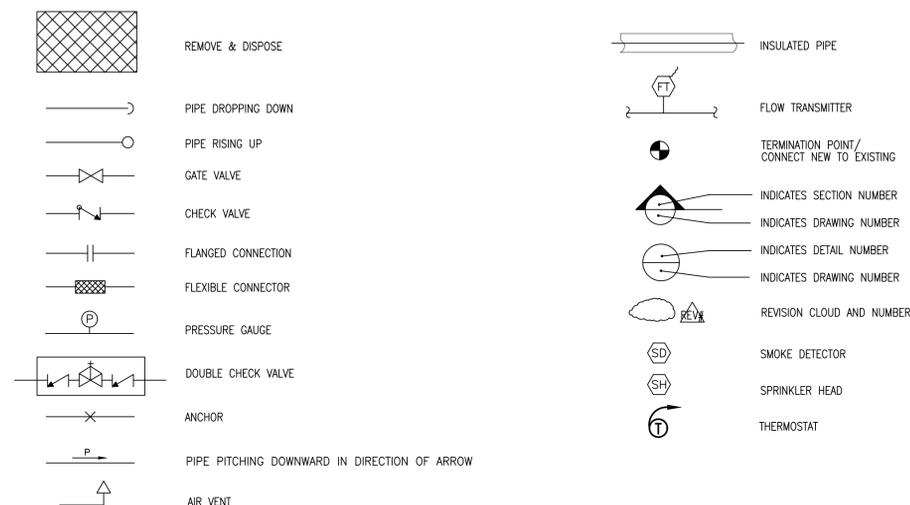
PIPING

- PROVIDE PIPES, PIPE FITTINGS, PIPE SPECIALTIES, AND PIPE SUPPORTS AS SPECIFIED HEREIN, AS SHOWN ON THE DRAWINGS AND AS NEEDED FOR A COMPLETE AND PROPER INSTALLATION.
- PIPE USED SHALL BE FREE FROM SCALE OR RUST. EACH LENGTH OF PIPE SHALL BE PROPERLY MARKED AT THE MILL FOR PROPER IDENTIFICATION WITH NAME OR SYMBOL OF MANUFACTURER. DIMENSIONS FOR STEEL PIPE SHALL BE IN ACCORDANCE WITH THE ANSI B.36.10. DIMENSIONS FOR RED BRASS PIPE SHALL BE IN ACCORDANCE WITH ASTM B251.
 - A) STEEL PIPE
 - 1) BLACK OR GALVANIZED; ASTM A106 GRADE B, SEAMLESS STANDARD WEIGHT; SCHEDULE 40
 - 2) STEEL PIPE SHALL BE MANUFACTURED BY: U.S. STEEL CO. SAWHILL TUBULAR CO. NORTH STAR STEEL CO. SHARON TUBE CO. KOPPEL STEEL CORP.
 - B) COPPER TUBING
 - 1) HARD TEMPER, WATER TUBE TYPE L; REFRIGERANT TUBE DRY SEALED, HARD ANNEALED; ASTM B88., MC1107.4
 - 2) COPPER TUBING AND FITTING SHALL BE MANUFACTURED BY: MUELLER INDUSTRIES PHELPS-DODGE COPPER PRODUCTS CORP. REVERE COPPER & BRASS, INC. NIBCO CO.

3. FITTINGS:

- A) STEEL:
 - 1) STEEL FITTINGS, EXCEPT COUPLINGS & UNIONS, 2 1/2" AND LESS; THREADED PATTERN, STANDARD WEIGHT, BLACK CAST IRON, SUITABLE FOR A WORKING STREAM PRESSURE OF 125 PSI, EXCEPT AS OTHERWISE SPECIFIED BELOW. THREADED FITTINGS SHALL CONFORM TO FEDERAL SPECIFICATION WW-P-501E, TYPE A, CLASS 1.
 - 2) MALLEABLE IRON, STEAM PATTERN THREADED FITTINGS SHALL CONFORM TO ANSI/ASME B16.3 FOR 300 LB CLASS.
 - 3) STEEL PIPE FITTINGS SHALL BE MANUFACTURED BY: GRINNELL CORP. CRANE CO. STOCKHAM VALVES & FITTINGS TUBE-LINE VICTAULIC CO. OF AMERICA
- B) UNIONS 3" SIZE AND UNDER SHALL BE STEEL, MALLEABLE IRON, 300 LB CLASS WITH BRASS TO IRON OR BRASS TO BRASS SEATS AND BRONZE TO BRONZE, BRONZE TO IRON OR BRASS TO IRON GROUND JOINT, EXCEPT AS OTHERWISE SPECIFIED. THE PRESSURE RATING SHALL BE INDICATED ON THE UNION.
 - 1) UNIONS SHALL BE MANUFACTURED BY: E.M. DART CO. S.G. FLAGG CO. GRINNELL CO. STOCKHAM VALVES & FITTINGS NIBCO CO.
- C) FITTINGS FOR TYPE "L" COPPER TUBING SHALL BE WROUGHT COPPER SOLDER JOINT FITTINGS SUITABLE FOR BRAZING AND SHALL BE IN ACCORDANCE WITH ANSI B.16.22-1973. TYPE "L" FITTINGS SHALL HAVE A MINIMUM WORKING WATER PRESSURE OF 150 PSI.
 - 1) FLUX FOR BRAZING SHALL BE EQUAL TO "HANDY FLUX" AND SHALL COMPLY WITH NAVY DEPARTMENT SPEC. 51F 4a.
 - 2) THE SILVER BRAZING ALLOY FOR BRAZED JOINTS SHALL BE SIMILAR TO HANDY & HARMON SIL-FOS BRAZING ALLOY HAVING A SILVER CONTENT OF NOT LESS THAN 15% AND A FLOW POINT OF 1300° FAHRENHEIT.
 - 3) TYPE "L" FITTINGS SHALL BE MANUFACTURED BY: NIBCO INC. STANLEY G. FLAGG & CO.

MECHANICAL LEGENDS AND SYMBOLS



AIR COOLED CONDENSER INSTALLATION NOTES:

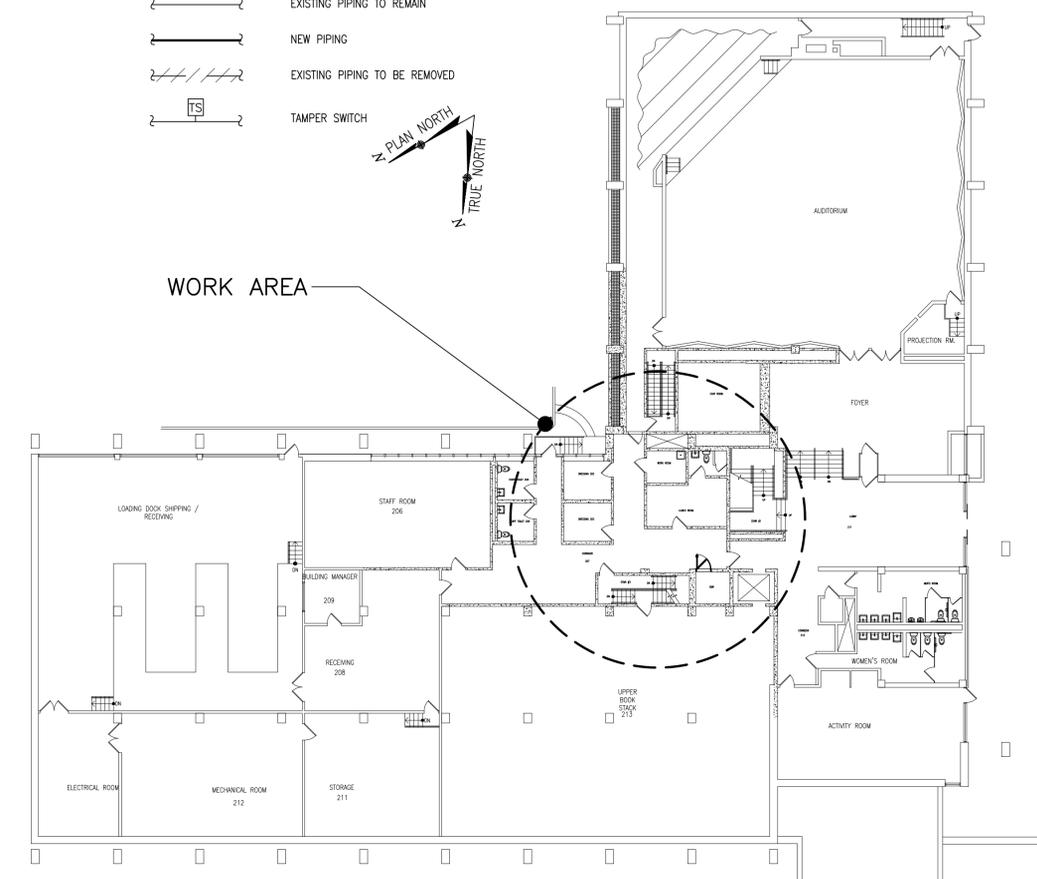
- FOLLOW ALL MANUFACTURERS INSTALLATION GUIDLINES FOR UNIT CLEARANCES AND MOUNTING RECOMMENDATIONS / HARDWARE. FINAL UNIT LOCATIONS TO BE DETERMINED AND VERIFIED IN FIELD WITH FACILITIES APPROVAL.
- REFRIGERANT LINES SHOULD NOT BE BURIED IN THE GROUND.
- THE VAPOR LINE MUST BE INSULATED. USE MINIMUM OF 1/2" THICK INSULATION. CLOSED CELL INSULATION IS RECOMMENDED IN ALL LONG LINE APPLICATIONS.
- LIQUID LINES SHOULD BE 3/8" ONLY. DO NOT RESIZE LINES FOR ADDITIONAL LENGTH.
- FOR LINE LENGTHS OVER 50FT, A CRANKCASE HEATER SHOULD BE ADDED TO THE SCROLL COMPRESSOR (ALL NON-SCROLL COMPRESSOR UNITS HAVE STANDARD CRANKCASE HEATERS). CRANKCASE HEATERS PREVENT REFRIGERANT MIGRATION BACK TO THE COMPRESSOR DURING THE OFF CYCLE.
- ANYTIME THE EQUIVALENT LENGTH IS OVER 100FT, A LIQUID LINE SOLENOID MUST BE USED AND INSTALLED WITHIN 2FT OF THE FAN COIL. THE SOLENOID MUST ALSO BE USED ANYTIME THERE IS A VERTICAL LIFT OVER 25FT.
- CONDENSER PISTON SIZE AND REFRIGERANT PIPE SIZE ARE SPECIFIED BASED ON ELEVATION AND PIPE ROUTING AS SHOWN ON DESIGN DRAWINGS. FIELD CHANGES TO PIPE ROUTING MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION AND/OR PURCHASE OF THE CONDENSING UNIT.
- MAX. ELEVATION DIFFERENCE BETWEEN FAN COIL UNIT AND CONDENSER IS 150FT
- SEE ELECTRICAL AND STRUCTURAL DRAWINGS FOR FINAL ELECTRICAL CONNECTIONS AND SPECIFIC MOUNTING DETAILS.
- ANYWHERE WHERE REFRIGERANT LINES ARE VISABLE AND CAN BE POTENTIALLY DAMAGED, LINES SHOULD BE ENCASED IN A SECURED SHEET METAL "BOXED" ENCLOSURE WITH PIPING ACCESS FOR PROTECTION.

WALL MOUNTED FAN COIL UNIT INSTALLATION NOTES:

- FOLLOW ALL MANUFACTURERS INSTALLATION & MOUNTING INSTRUCTIONS, GUIDELINES AND STARTUP PROCEDURES.
- INSTALL "SLIM-LINE" THERMOSTAT WHERE INDICATED ON DESIGN DRAWINGS OR AS DIRECTED BY THE OWNER. FIELD ROUTE THERMOSTAT CONTROL WIRING AS PER ELECTRICAL WIRING SPECIFICATIONS & MANUFACTURERS INSTRUCTIONS.
- INSTALL FAN COIL UNIT CONDENSATE DRAIN LINE AND DRIP PAN AS PER MANUFACTURERS INSTRUCTIONS. ROUTE DRAIN PIPING ALONG WALL TO J.C. SLOP SINK, PITCH TO DRAIN IN SINK
- FOLLOW ALL MANUFACTURERS INSTALLATION GUIDLINES FOR UNIT CLEARANCES AND MOUNTING RECOMMENDATIONS / HARDWARE. FINAL UNIT LOCATIONS TO BE DETERMINED AND VERIFIED IN FIELD WITH FACILITIES APPROVAL. ADJUST THREADED ROD ELEVATION AND LOCATION TO SUIT INDIVIDUAL ELEVATOR MACHINE ROOM CEILING.

ELECTRICAL WIRING AND CONTROL:

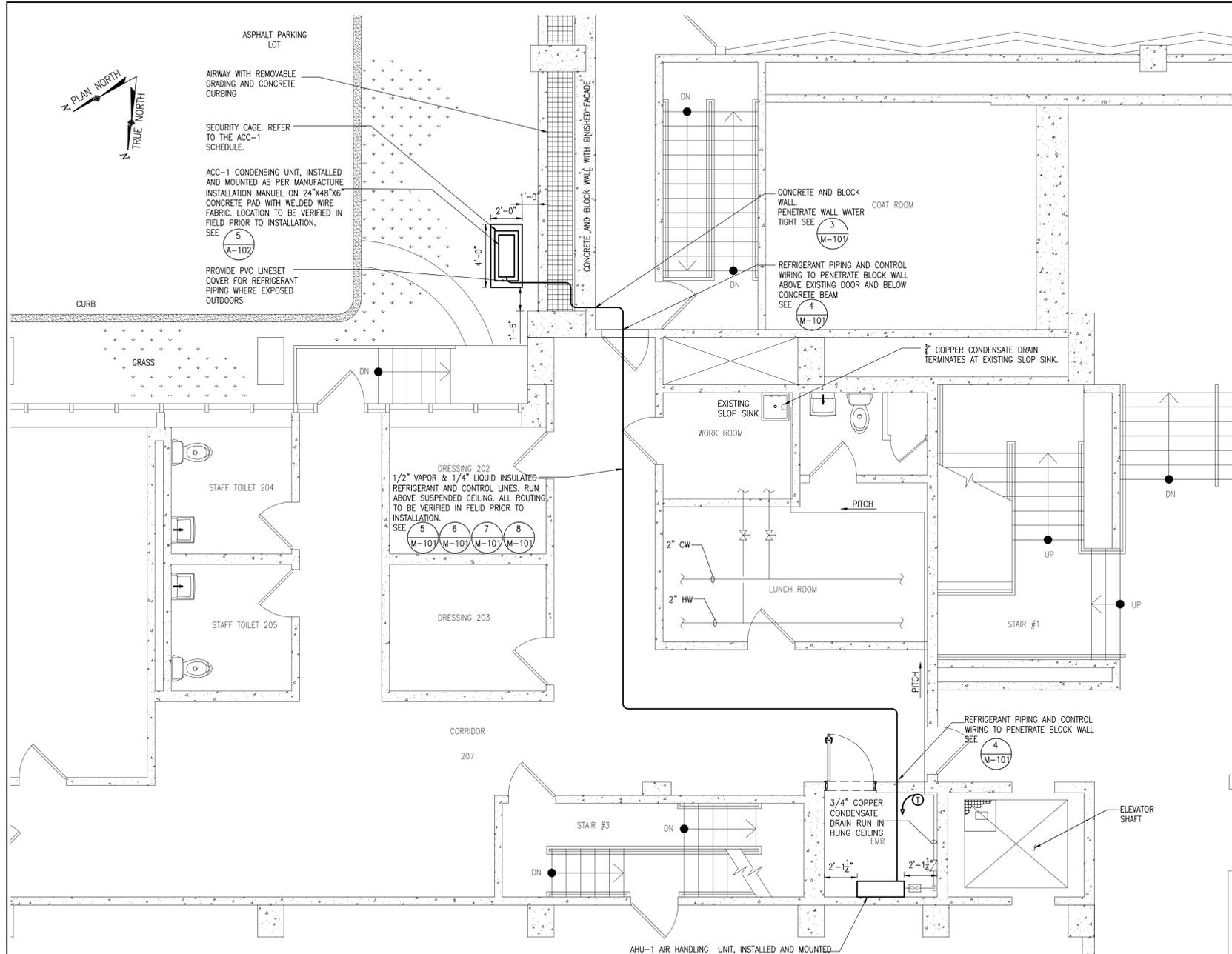
- MECHANICAL CONTRACTOR SHALL PROVIDE TRANSFORMERS AND MAKE ALL CONNECTIONS TO MOTORIZED DAMPERS, DIFFUSERS AND REMOTE TEMPERATURE ADJUST UNITS.
- ALL CONTROL WIRING SHALL BE DONE ACCORDING TO SEQUENCE OF OPERATION, AS SPECIFIED, AND IN ACCORDANCE WITH MANUFACTURER CONTROL DATA.



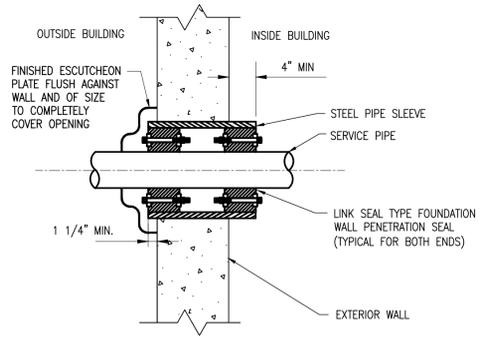
1 LOWER FLOOR PLAN-WORK AREA
M-001 SCALE: 3/32" = 1'-0"

AIR HANDLING UNIT SCHEDULE																
UNIT	LOCATION & SERVICE	TYPE	TONS COOLING	SIZE (IN) (LxWxD)	MAX CFM	BLOWER MOTOR DATA					VAPOR/ LIQUID LINE	WEIGHT	SOUND PRESS	MAKE/ MODEL	REMARKS/ OPTIONS	
						FUSE	MCA	PHASE	CYCLE	VOLTS						BTU/H
AHU-1	ELEVATOR MACHINE ROOM	SPLIT SYSTEM AIR HANDLER WALL MOUNTED	1.5	36"x12"x10"	425	15	1	1	60	208/230	18,000	1/2" / 1/4"	29	43	MITSUBISHI / PKA-A18NHA7	MINI CONDENSATE PUMP, L-CONNECTOR PIPE, WIND BAFFLE, WIRED WALL MOUNT CONTROLLER, LOW AMBIENT KIT, PROVIDE SECURITY CAGE FOR OUTDOOR UNIT WITH A 16 GA POWER-COATED FRAME, EXPANDED METAL SIDES & TOP, & TWO PADLOCKS. SECURE TO THE CONCRETE PAD WITH 3/8" SS CENTER-PIN TORX SCREWS USING SS DROP-IN ANCHORS. (AC-GUARD MODEL #ACMS OR EQUAL).
ACC-1	EXTERIOR ELEVATOR MACHINE ROOM	CONDENSER EXTERIOR MOUNTED		32"x12"x24"		20	13	1	60	208/230					89	

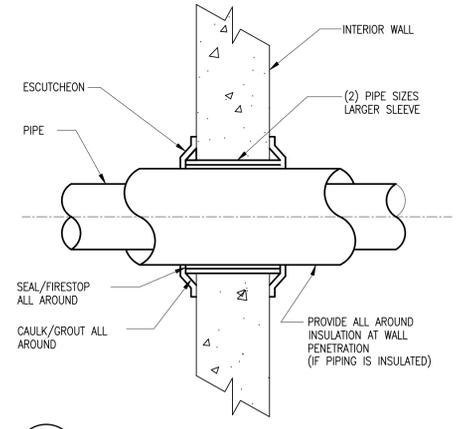
0		BID SUBMISSION	06/29/2022	JDL
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Drawing Title GENERAL NOTES, LEGEND, SYMBOLS & SCHEDULE				
Date	Scale	Designed By	Drawn By	Checked By
06/29/2022	AS SHOWN	00	ERF	MP
Seal		Project No. MNY-2200036.00		
Drawing No. M-001		Sheet 14 of 20		



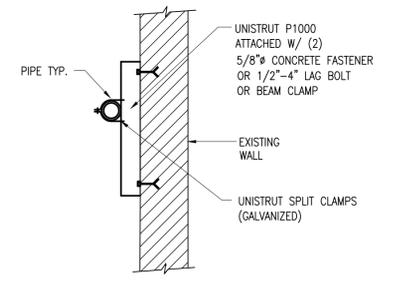
1 PARTIAL LOWER FLOOR AC - PLAN
M-101 SCALE: 1/4" = 1'-0"



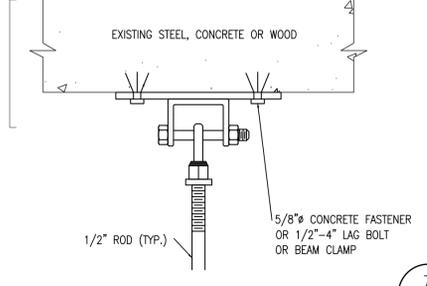
3 EXTERIOR WALL WEATHER TIGHT PIPE PENETRATION DETAIL
M-101 SCALE: NONE



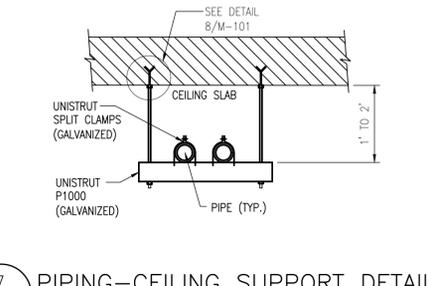
4 TYPICAL WALL PENETRATION
M-101 SCALE: NONE



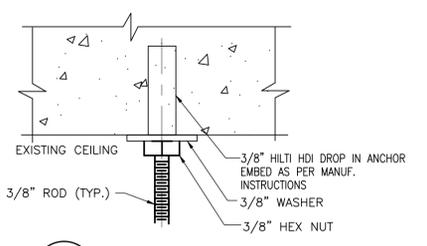
5 WALL SUPPORT
M-101 SCALE: NONE



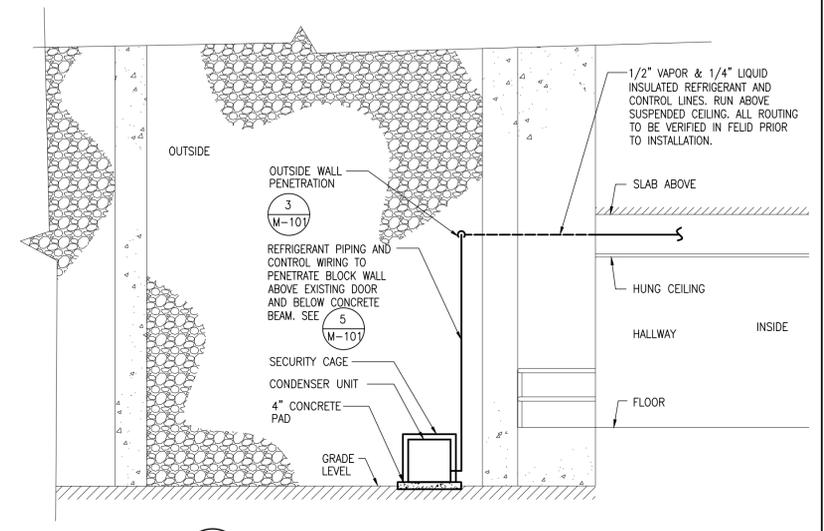
6 CLEVISES HANGER
M-101 SCALE: NONE



7 PIPING-CEILING SUPPORT DETAIL
M-101 SCALE: NONE



8 HANGER DETAIL
M-101 SCALE: NONE



2 PARTIAL-ELEVATION
M-101 SCALE: 1/8" = 1'-0"

- NOTES:
1. ALL PIPE ROUTING TO BE FIELD VERIFIED PRIOR TO INSTALLATION.
 2. ALL WALL PENETRATIONS SHALL BE FIRESTOPPED AND/OR WATERTIGHT WITH STEEL SLEEVES.
 3. INSULATE REFRIGERANT LINES WITH 1/2" MIN CLOSED CELL INSULATION.
 4. ANYWHERE WHERE REFRIGERANT LINES ARE VISIBLE AND CAN BE POTENTIALLY DAMAGED, LINES SHOULD BE ENCASED IN A REMOVABLE SHEET METAL "BOXED" ENCLOSURE FOR PROTECTION.

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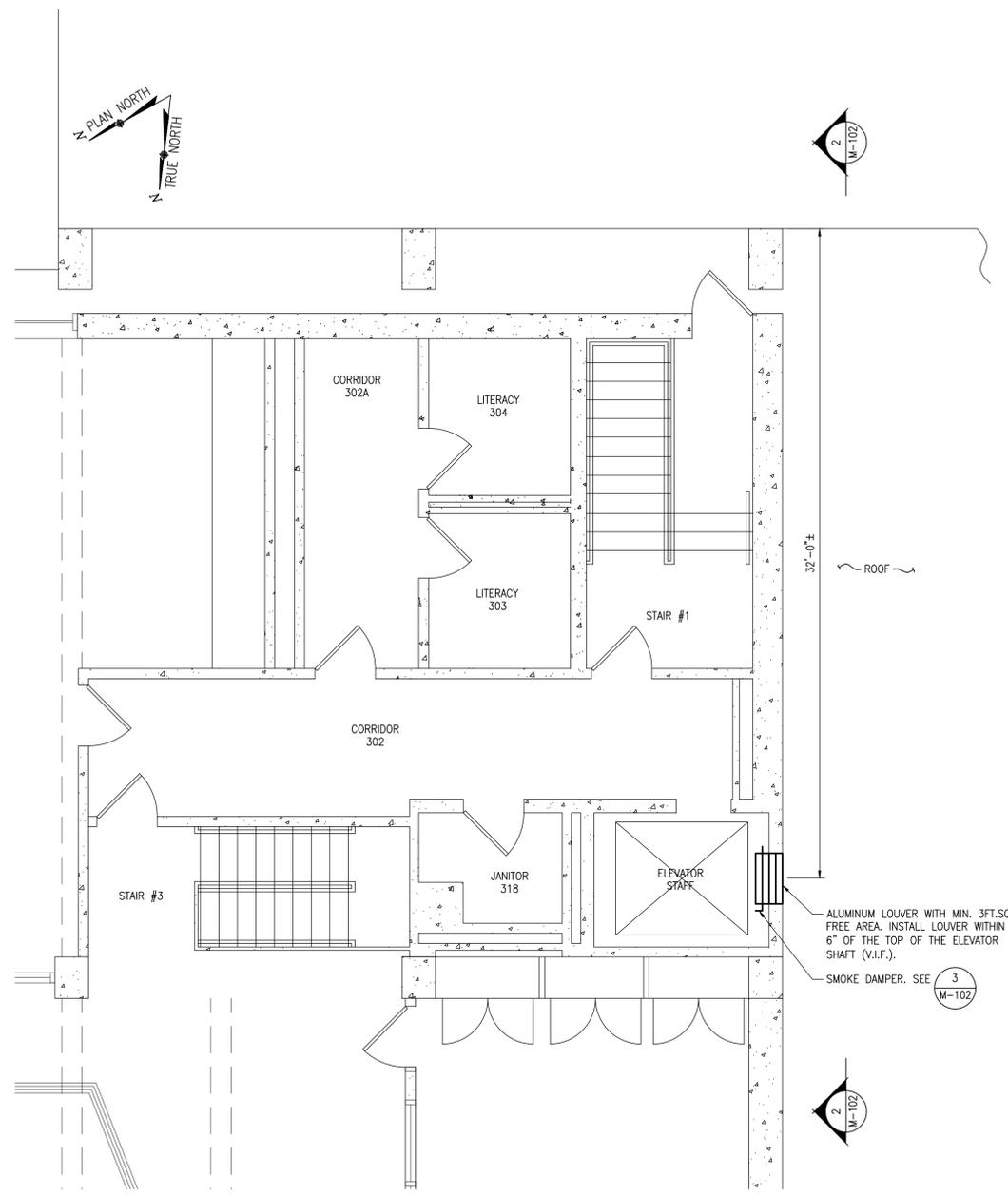
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Drawing Title
PARTIAL LOWER FLOOR PLAN & DETAILS

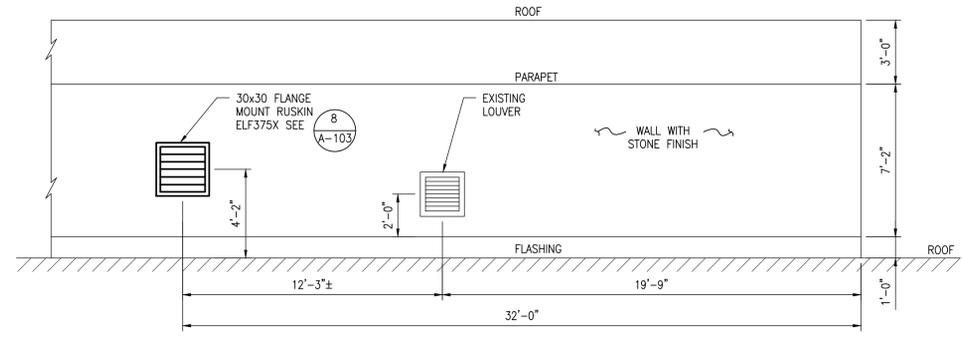
Date	Scale	Designed By	Drawn By	Checked By
06/29/2022	AS SHOWN	QQ	ERF	MP

Seal Project No. MNY-2200036.00

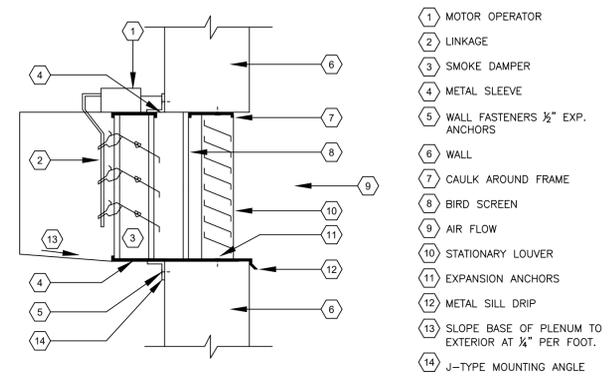
Drawing No. M-101



1 PART MEZZANINE & ROOF PLAN
M-102 SCALE: 1/4" = 1'-0"



2 PART ROOF ELEVATION
M-102 SCALE: 1/4" = 1'-0"



NOTES:
1. PRIOR TO INSTALLATION OF LOUVER AND DAMPER, CONTRACTOR IS TO REVIEW INSTALLATION WITH THE OWNER.
2. IN ALL CASES, WALL SLEEVES SHALL BE CONTINUOUS FROM INSIDE TO OUTSIDE AND SEALED WATER TIGHT.

3 HOISTWAY VENT DETAIL
M-102 SCALE: N.T.S.

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Drawing Title MEZZANINE &
ROOF FLOOR PLAN

Date	Scale	Designed By	Drawn By	Checked By
06/29/2022	AS SHOWN	QQ	ERF	MP

Seal Project No. MNY-2200036.00

Drawing No. M-102

GENERAL NOTES

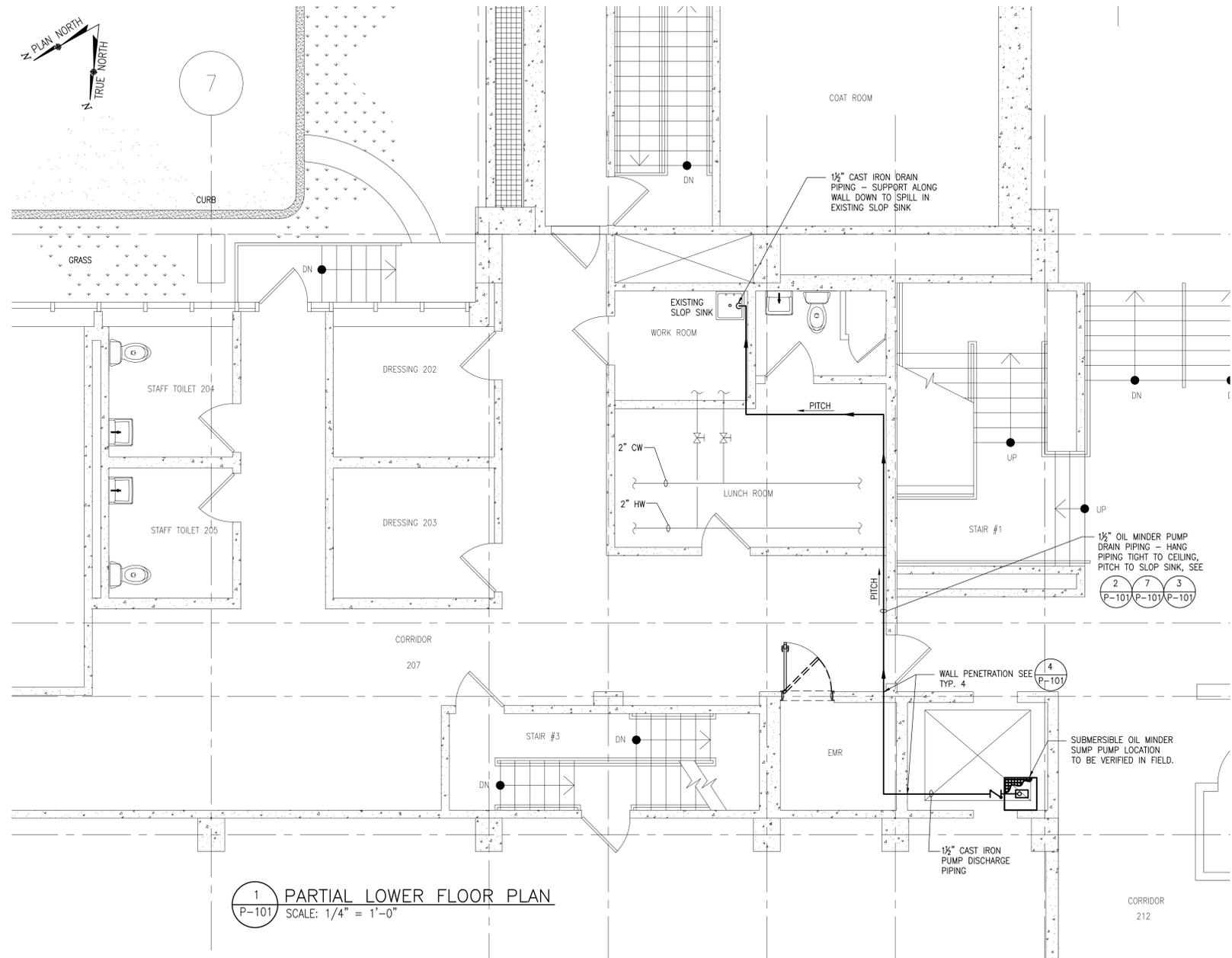
1. PROVIDE LABOR, MATERIALS, TOOLS, MACHINERY, EQUIPMENT, AND SERVICES NECESSARY TO COMPLETE THE WORK UNDER THIS CONTRACT. ALL SYSTEMS AND EQUIPMENT SHALL BE COMPLETE IN EVERY ASPECT AND ALL ITEMS OF MATERIAL, EQUIPMENT AND LABOR SHALL BE PROVIDED FOR A FULLY OPERATIONAL SYSTEM AND READY FOR USE. COORDINATE THE WORK WITH THE WORK OF THE OTHER TRADES IN ORDER TO RESOLVE ALL CONFLICTS WITHOUT IMPEDING THE JOB PROGRESS.
2. EXAMINE THE DRAWINGS AND OTHER DIVISIONS, AND SECTIONS OF THE SPECIFICATIONS IN ORDER TO DETERMINE THE EXTENT OF THE WORK REQUIRED TO BE COMPLETED UNDER THIS DIVISION. FAILURE TO EXAMINE ALL THE CONTRACT DOCUMENTS FOR THIS PROJECT WILL NOT RELIEVE THIS SECTION AND ANY OTHER SECTIONS OF THEIR RESPONSIBILITIES TO PERFORM THE WORK REQUIRED FOR A COMPLETE FULLY OPERATIONAL AND SATISFACTORY INSTALLATION.
3. THE WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING SYSTEMS, EQUIPMENT AND SERVICES, AS SPECIFIED HEREBY.
4. START-UP SERVICES SHALL BE INCLUDED IN THE BID.
5. ALL SYSTEMS, EQUIPMENT AND SERVICES SPECIFIED HEREIN SHALL BE PROVIDED COMPLETE AND READY FOR USE. ALL EQUIPMENT, PIPING, ARE NEW, FURNISHED AND INSTALLED BY THIS CONTRACTOR, UNLESS OTHERWISE NOTED.
6. INSTALL ACCESS FOR SERVICING AND MAINTENANCE. COORDINATE THE FINAL LOCATION OF CONCEALED EQUIPMENT AND DEVICES REQUIRING ACCESS WITH FINAL LOCATION OF ACCESS PANELS AND DOORS. ALLOW AMPLE SPACE FOR REMOVAL OF ALL PARTS THAT REQUIRE REPLACEMENT OR SERVICING.
7. VERIFY FINAL LOCATIONS FOR ROUGH WORK WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT BEING CONNECTED.
8. PIPING ARE SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING OF PIPING TO AVOID OBSTRUCTIONS. EXACT LOCATIONS ARE SUBJECT TO APPROVAL OF ARCHITECT. COORDINATION WITH THE EXISTING SERVICES, INCLUDING THOSE OF OTHER TRADES IS REQUIRED.
9. ARRANGE FOR CHASES, SLOTS, AND OPENINGS IN OTHER AND ALL COMPONENTS TO ALLOW FOR INSTALLATIONS.
10. COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SIZE OF SLEEVES TO BE SET IN POURED CONCRETE AND OTHER STRUCTURAL COMPONENTS AS THEY ARE CONSTRUCTED.
11. COORDINATE THE INSTALLATION OF MATERIALS AND EQUIPMENT ABOVE GRADE WITH MECHANICAL AND SUPPRESSION SYSTEM, LIGHT FIXTURES, AND ALL OTHER INSTALLATIONS AND ACCESSORIES.
12. PROVIDE EQUIPMENT AND SYSTEMS THAT, AS DEFINED HEREIN, SHALL BE QUIET AND FREE OF APPARENT VIBRATION IN OPERATIONS.
13. OBTAIN EQUIPMENT THAT IS QUIET IN OPERATION AS COMPARED TO OTHER AVAILABLE EQUIPMENT OF ITS SIZE, CAPACITY, AND TYPE; INSTALL EQUIPMENT SO THAT A MINIMUM AMOUNT OF NOISE AND/OR VIBRATION IS TRANSMITTED TO THE BUILDING; AND FABRICATE THE DUCT SYSTEM SO THAT AIR NOISES GENERATED IN THE SYSTEM ARE HELD TO AN ABSOLUTE MINIMUM.
14. PROVIDE A COMPLETE SYSTEM OF VIBRATION ISOLATION FOR EACH ITEM OF HVAC EQUIPMENT AND APPARATUS AS SPECIFIED HEREIN, AS SHOWN ON THE DRAWINGS AND AS NEEDED FOR A COMPLETE AND PROPER INSTALLATION.
15. PROVIDE SEISMIC RESTRAINTS FOR ALL EQUIPMENT FURNISHED AS PART OF THIS CONTRACT. ANCHOR ALL EQUIPMENT FURNISHED BY OTHERS WHEN INSTALLATION IS CLAIMED BY THIS CONTRACT. DUCTWORK SHALL HAVE SUPPORTS, HANGERS, VIBRATION ISOLATORS, AND SHALL BE SEISMICALLY RESTRAINED IN ACCORDANCE WITH NYSBC.
16. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES INVOLVING EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
17. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACE AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER IN THE INTERIOR OR THE EXTERIOR.
18. SEAL OPENINGS AROUND PIPING THROUGH PARTITIONS, AND WALLS WITH MINERAL WOOL OR OTHER NONCOMBUSTIBLE MATERIAL.
19. ALL PRESENT MATERIAL, EQUIPMENT AND CONSTRUCTION DEBRIS TO BE REMOVED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE CONTRACTOR WITH THE EXCEPTION OF SPECIFIC EQUIPMENT AND APPARATUS REQUESTED BY THE BUILDING REPRESENTATIVE, ARCHITECT OR AS NOTED TO BE RELOCATED ON THE DRAWINGS SHALL BE PROPERLY DISPOSED OF BY THIS CONTRACTOR.
20. THE FINAL ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, BALANCED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL.
21. CONTRACTOR TO COMPLY WITH THE 2010 NYS BUILDING CODE AND ADAPTED APPENDICES.
22. CONTRACTOR TO SUBMIT SHOP DRAWING FOR APPROVAL FOR ALL SYSTEMS
23. PUMP CONTROLS AND SET POINTS TO REMAIN THE SAME, CONNECT TO NEW HIGH AND LOW PRESSURE SENSORS.
24. PRESSURE TEST WATER SUPPLY SYSTEM 1 1/2 TIMES WORKING PRESSURE FOR 2 HR MIN.

ABBREVIATIONS

- | | |
|----------------|-------------------------------|
| A.F.F. | ABOVE FINISHED FLOOR |
| A.H.J. | AUTHORITY HAVING JURISDICTION |
| CL OR ☉ | CENTER LINE |
| CLG. | CEILING |
| COL. | COLUMN |
| CONN. | CONNECTION |
| CONT. | CONTINUED |
| DIA., ⌀ | DIAMETER |
| DN. | DOWN |
| DWG. | DRAWING |
| ELEV. | ELEVATION |
| F.F./FIN. FLR. | FINISHED FLOOR |
| FLR. | FLOOR |
| G.P.M. | GALLONS PER MINUTE |
| G.P.H. | GALLONS PER HOUR |
| MAX. | MAXIMUM |
| MIN. | MINIMUM |
| NC | NORMALLY CLOSED |
| N.I.C. | NOT IN CONTRACT |
| PRESS. | PRESSURE |
| P.S.I. | POUNDS PER SQUARE INCH |
| S.F./SQ. FT. | SQUARE FEET |
| STD. | STANDARD |
| TYP. | TYPICAL |
| D | DRAIN PIPE |
| HP | HORSE POWER |
| OD | OUTSIDE DIAMETER |
| TYP. V.I.F. | TYPICAL VERIFY IN FIELD |
| OC | ON CENTER |

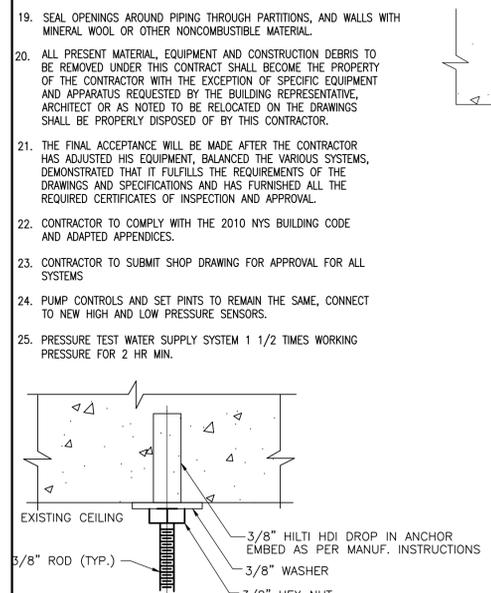
LEGEND

- | | |
|--|------------------------------|
| | EXISTING TO BE REMOVED |
| | EXISTING ABOVE GROUND PIPING |
| | NEW ABOVE GROUND PIPING |
| | GATE VALVE |
| | CHECK VALVE |
| | BALL VALVE |
| | FLOW SENSOR/SWITCH |
| | CONNECT TO EXISTING |
| | PIPE DROPPING DOWN |
| | PIPE RISING UP |
| | PIPE BOTTOM CONNECTION |
| | PIPE TOP CONNECTION |
| | PUMP |
| | DETAIL 3, DRAWING M-5 |

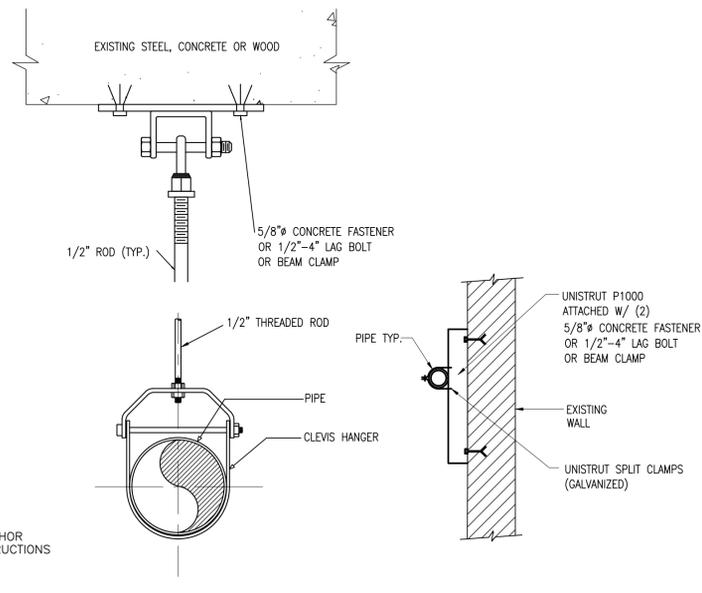


1 PARTIAL LOWER FLOOR PLAN
SCALE: 1/4" = 1'-0"

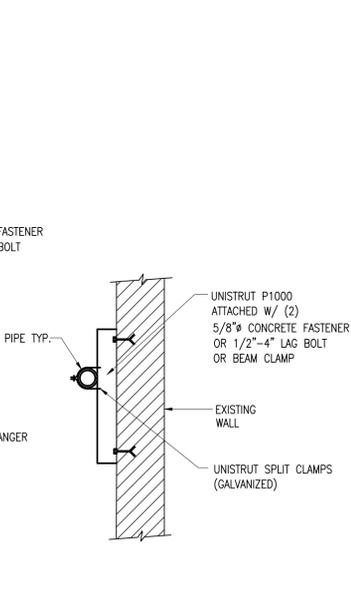
SUMP PUMP SCHEDULE											
PUMP #	LOCATION	TYPE	SERVICE	GPM	TDH	MOTOR DATA				REMARKS	
						RPM	HP	PHASE	CYCLE		VOLTS
P-1	ACADEMIC-1 ELEVATOR SHAFT PIT	SUBMERSIBLE WATER TIGHT SWITCH & FLOAT	ELEVATOR SHAFT	69 (MAX.)	38	1750	4/10	1	60	115	ZOELLER OIL GUARD MODEL N152 940-0006 SUBMERSIBLE EFFLUENT PUMP 4/10 HP, 115 VOLT 1 1/2" DISCHARGE, 69 GPM MAX.



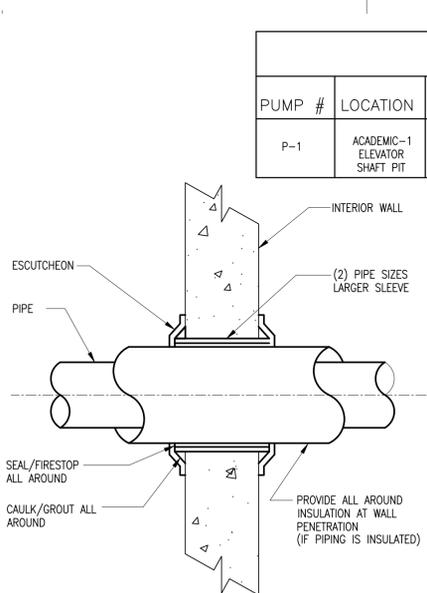
7 HANGER DETAIL
SCALE: NONE



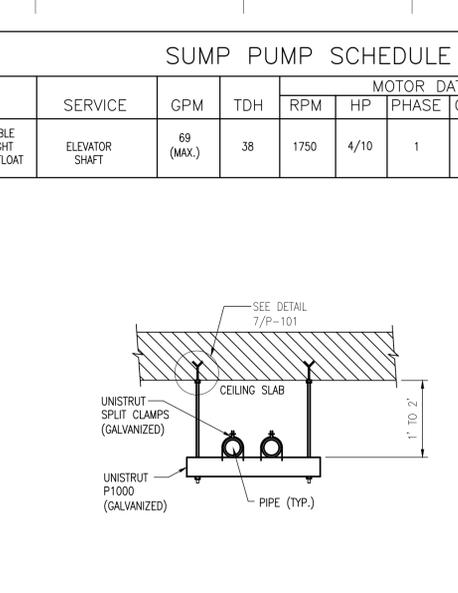
2 CLEVISES HANGER
SCALE: NONE



3 WALL SUPPORT
SCALE: NONE



4 TYPICAL WALL PENETRATION
SCALE: NONE



5 PIPING-CEILING SUPPORT DETAIL
SCALE: NONE

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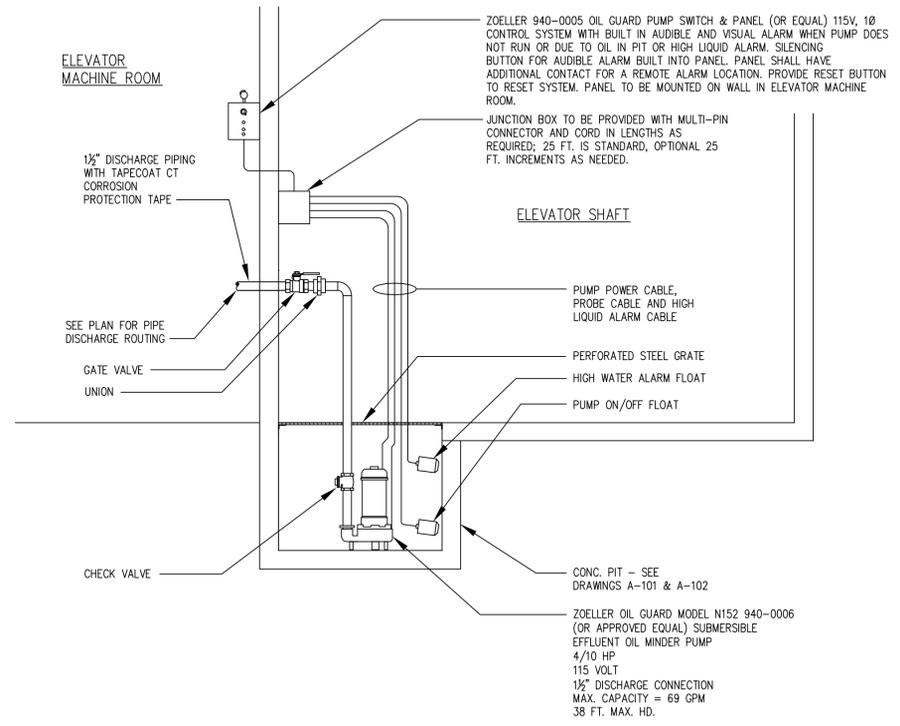
Drawing Title PLUMBING-DRAIN PLAN

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Drawing No. P-101

Sheet 17 of 20



1 **ELEVATOR OIL MINDER PUMP DETAIL**
P-102 SCALE: NONE

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Drawing Title
PLUMBING DETAILS

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Seal
Project No. **MNY-2200036.00**

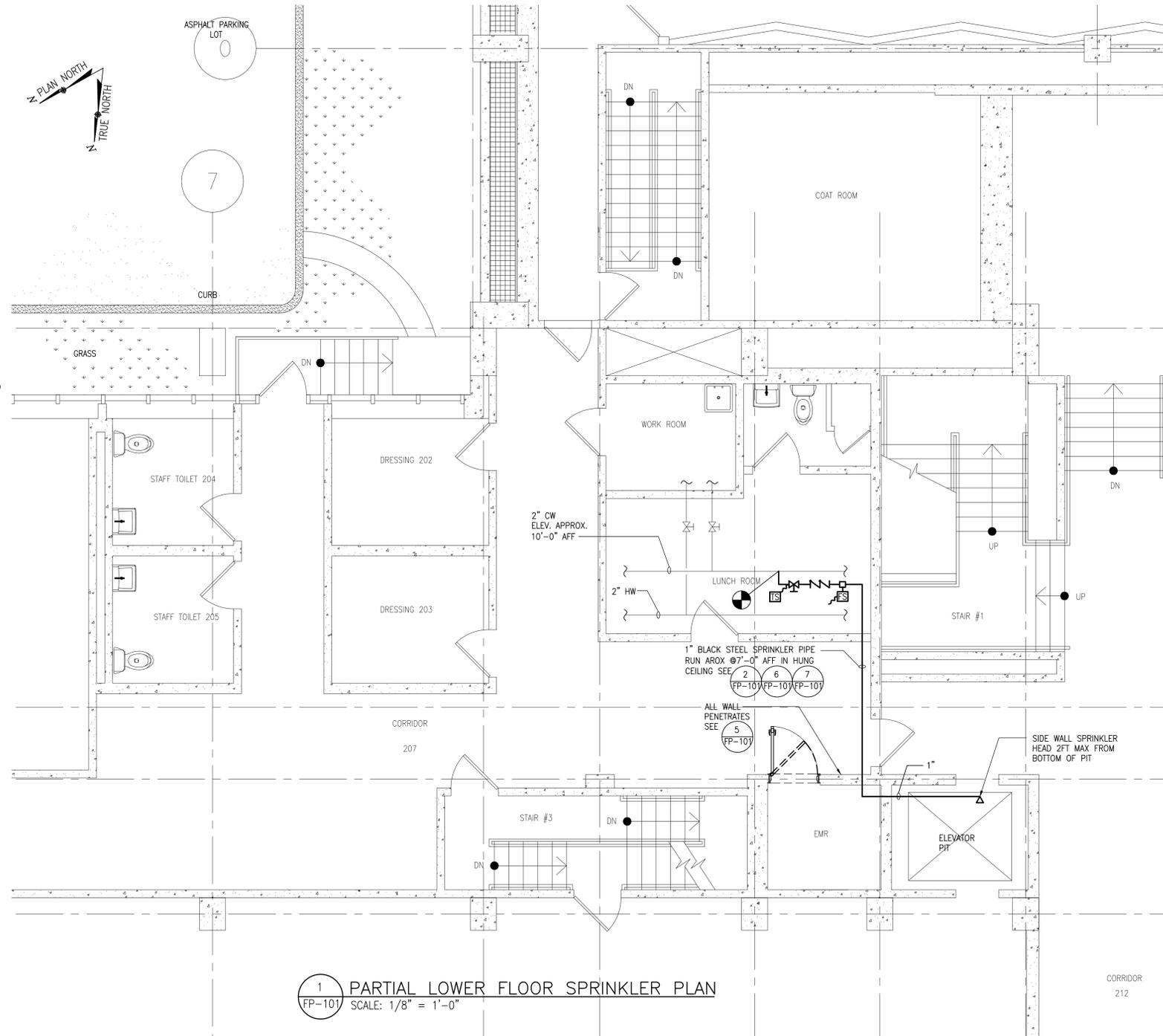
Drawing No.
P-102

FIRE PROTECTION LEGEND

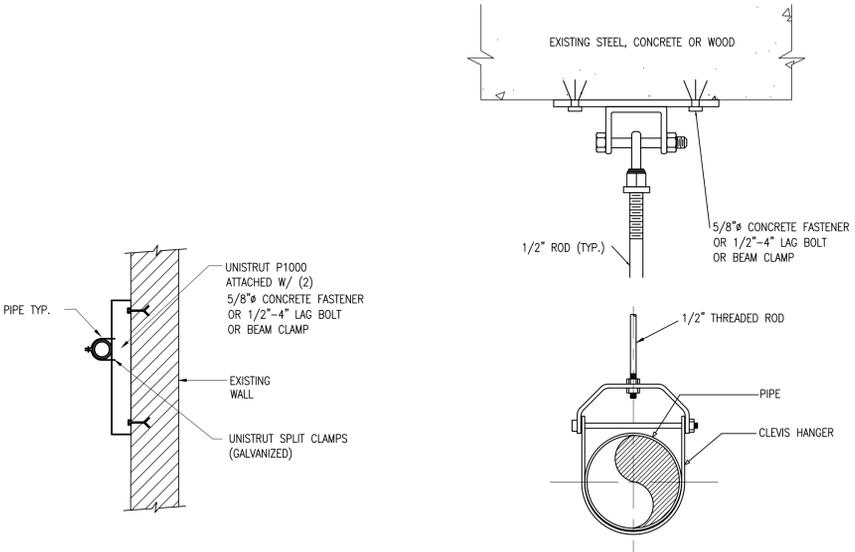
- ABOVEGROUND FIRE SPRINKLER PIPING
- - - BELOW GROUND FIRE SPRINKLER PIPING
- EXISTING PIPING
- NEW CONCEALED PENDENT SPRINKLER HEAD
- NEW UPRIGHT SPRINKLER HEAD
- △ NEW SIDEWALL SPRINKLER HEAD
- ▽ REDUCER
- ⊗ GATE VALVE WITH NON-RISING STEM
- ⊘ CHECK VALVE
- ⊗ GATE VALVE
- ⊗ CONTROL VALVE W/ TAMPER SWITCH
- ⊗ SOLENOID VALVE
- ⊗ BACKFLOW PREVENTER DOUBLE DETECTOR
- ⊕ CONNECT TO EXISTING
- ⊖ DISCONNECT FROM EXISTING

FIRE PROTECTION NOTES:

1. PERFORM ALL WORK IN ACCORDANCE WITH O.S.H.A., NFPA-13 AND ALL RULES AND REGULATIONS OF THE AUTHORITY HAVING JURISDICTION.
2. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION/INSTALLATION.
3. PIPING SHALL BE RUN APPROXIMATELY IN THE AREAS AS INDICATED ON THE DRAWING. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MODIFICATIONS TO THE ARRANGEMENT OF THE PIPING AS MAY BE REQUIRED TO SUIT ACTUAL FIELD CONDITIONS.
4. CONTRACTOR SHALL PREPARE AND FURNISH TO THE OWNER "AS-BUILT" DRAWINGS FOR ALL WORK INSTALLED.
5. PIPES, UNLESS OTHERWISE NOTED, SHALL BE CARBON STEEL, A-53, SCH. 40.
6. FITTINGS, UNLESS OTHERWISE NOTED, SHALL BE 150 LBS. MALLEABLE IRON, SCREWED. HOWEVER, VICTAULIC GROOVED TYPE FITTINGS MAY BE USED FOR PIPE SIZES 2 1/2" AND LARGER.
7. A ONE PIECE REDUCING FITTING SHALL BE USED WHEREVER A CHANGE IS MADE IN THE SIZE. THE USE OF BUSHINGS OR REDUCING FLANGES WILL NOT BE PERMITTED.
8. PIPE HANGERS SHALL CONFORM TO NFPA-13.
9. ALL EQUIPMENT AND MATERIALS USED SHALL BE UL/FM APPROVED.
10. PIPING SHALL BE ROUTED TO MINIMIZE FLOW RESTRICTION & SUPPORTED BY APPROVED HANGERS, KEEPING CLEAR OF ALL INTERFERENCES, AND MAINTAINING ACCESSIBILITY.
11. ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS OR FLOORS SHALL BE FIRE STOPPED WITH APPROVED FIRE STOP/ SEALANT.
12. ALL DAMAGES CAUSED BY THE CONTRACTOR IN THE PERFORMANCE OF HIS WORK SHALL BE REPAIRED BY HIM. SUCH REPAIRS SHALL MATCH EXISTING CONDITIONS.
13. THE CONTRACTOR IS RESPONSIBLE FOR FILING ALL APPLICATIONS AND PAYING ALL FEES NECESSARY FOR SPRINKLER SYSTEM MODIFICATION. CONTRACTOR SHALL SUBMIT 1/8" SCALE SHOP DRAWINGS & HYDRAULIC CALCULATIONS SIGNED & SEALED BY LICENSED NEW JERSEY ENGINEER FOR REVIEW.
14. ALL NEW SPRINKLER LOCATIONS TO BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS, INCLUDING REFLECTED CEILING PLANS, LIGHTING PLANS AND SHOP DRAWINGS TO AVOID CONFLICTS.

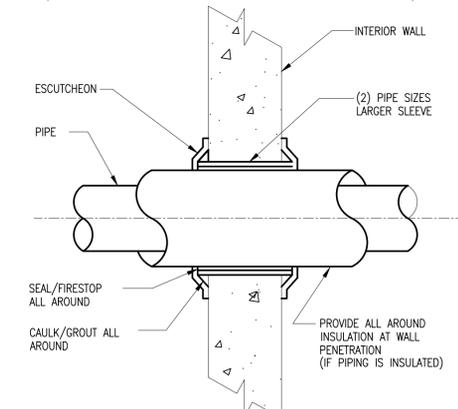


1 PARTIAL LOWER FLOOR SPRINKLER PLAN
 FP-101 SCALE: 1/8" = 1'-0"

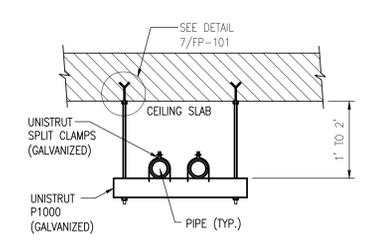


3 WALL SUPPORT
 FP-101 SCALE: NONE

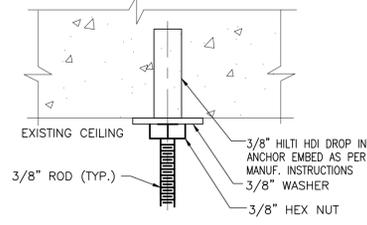
2 CLEVIS HANGER
 FP-101 SCALE: NONE



5 TYPICAL WALL PENETRATION
 FP-101 SCALE: NONE



6 PIPING-CEILING SUPPORT DETAIL
 FP-101 SCALE: NONE



7 HANGER DETAIL
 FP-101 SCALE: NONE

SPRINKLER FLOW SWITCH SCHEDULE				
QTY	MFGR	SIZE	MODEL NO.	LOCATION
1	POTTER ROEMER	1"	6216	ELEVATOR MECH ROOM SPRINKLER PIPES (5)

SPRINKLER HEAD SCHEDULE							
QTY	LOCATION	TYPE	SERVICE	ORIFICE SIZE (IN)	"K" FACTOR	DEFLECTOR TYPE	REMARKS
1	MECH RM	SIDEWALL	ELEVATOR PIT	1/2	5.6	HSW1	RELIABLE - MODEL F1FR56- QUICK RESPONSE HORIZONTAL SIDEWALL

4 SPRINKLER HEAD SCHEDULE
 FP-101 SCALE: NONE

No.	Revision	Date	By
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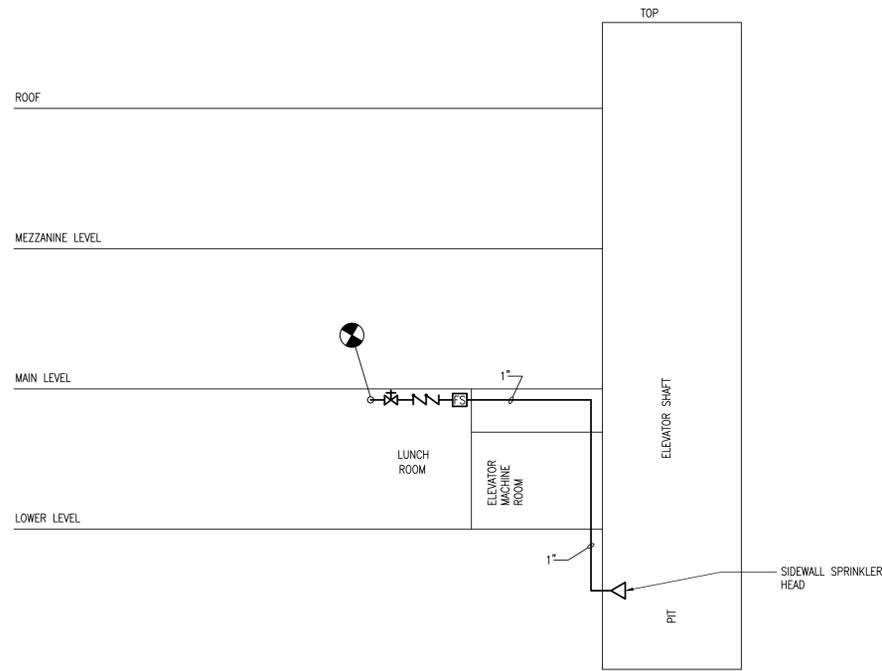
Drawing Title
NOTES, LEGEND, SCHEDULES & PARTIAL LOWER FLOOR SPRINKLER PLAN

Date	Scale	Designed By	Drawn By	Checked By
06/29/2022	AS SHOWN	JM	JM	MP

Project No. **MINY-2200036.00**
 Drawing No. **FP-101**

Seal: [Professional Engineer Seal]

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1 SPRINKLER RISER
 FP-102 SCALE: NONE

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Drawing Title
 MEZZANINE &
 ROOF FLOOR PLAN
 & SPRINKLER RISER

Date	Scale	Designed By	Drawn By	Checked By
06/29/2022	AS SHOWN	JM	JM	MP

Seal Project No.
 MNY-2200036.00

Drawing No.
 FP-102