



CITY OF PHILADELPHIA DEPARTMENT OF PUBLIC PROPERTY

MAYOR – JAMES F. KENNEY

MANAGING DIRECTOR – TUMAR AEXANDER

COMMISSIONER – DEPARTMENT OF PUBLIC PROPERTY – BRIDGET COLLINS-GREENWALD

FIRE COMMISSIONER – ADAM K. THIEL

DECONTAMINATION SUITE ENGINE 72

1127 W. LOUDON ST. | PHILA., PA 19141
PROJECT No. 13-21-4643-01

BID DOCUMENTS DATE SEPTEMBER 9, 2021

ARCHITECT



Blackney Hayes Architects
150 S. Independence Mall West, Suite 1200
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MEPFP ENGINEER

Wick Fisher White
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CONTACT PERSON: Charles Deal

CODE SUMMARY

CODE DATA		
Applicable Codes		
IBC 2018		
IEBC 2018		
IMC 2018		
IPC 2018		
PHILADELPHIA FIRE CODE 2018		
IFGC 2018		
IECC 2018		
ADAAG 2010		
SUMMARY		REFERENCE
Use Group	B, S-1, R	302.1
Construction Type	IIB	Table 601
Fire Protection System	Sprinklered (per NFPA 13)	
IEBC 2018		REFERENCE
Classification of Work	Level 2 Alteration	Chapter 6

PA One Call Number: 1.800.242.1776

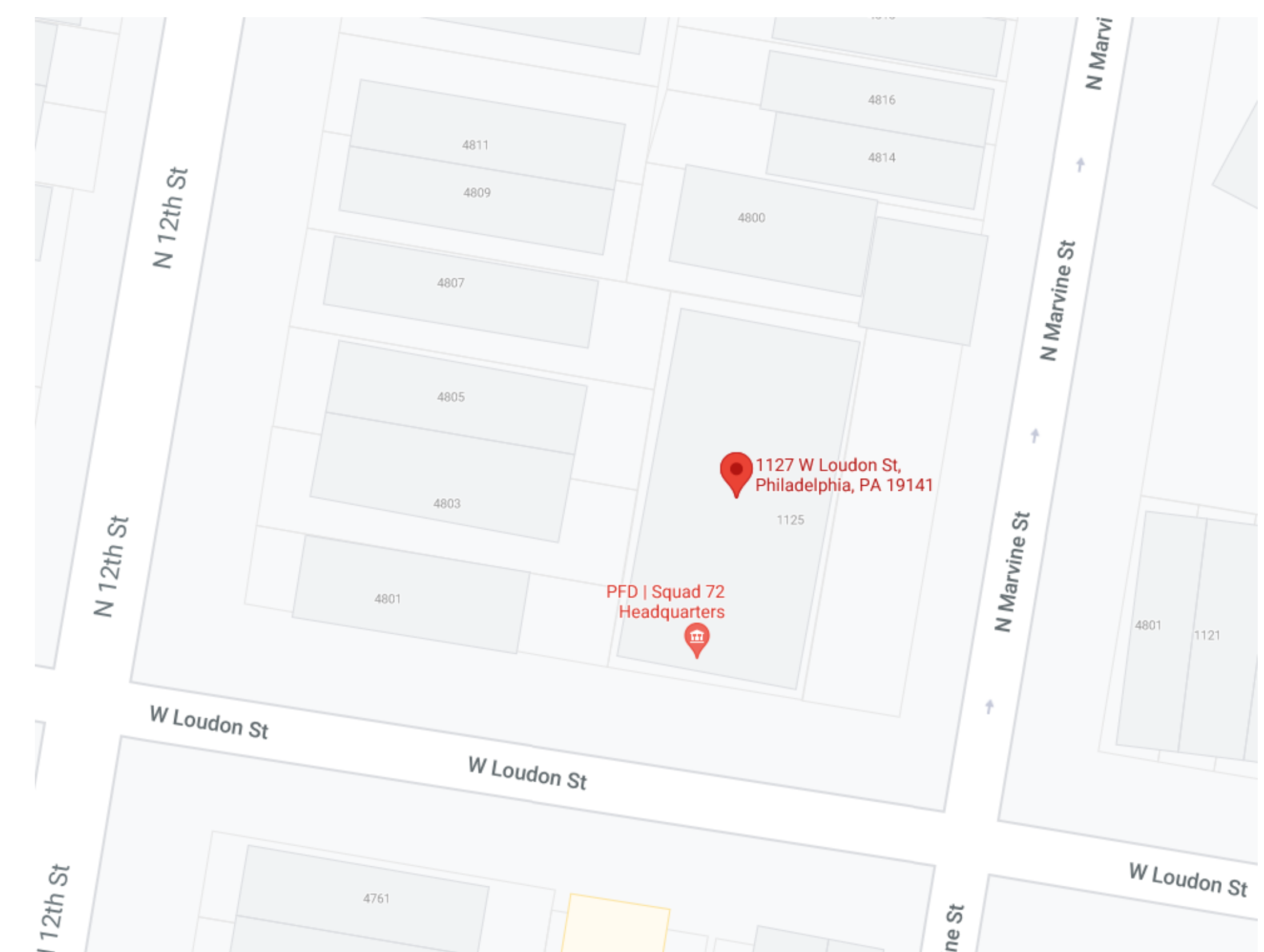
Accessibility Notes:

- Scope of work does not include an area of primary function

DRAWING LIST

SHEET LIST		09/09/21 ISSUE FOR BID
SHEET NO.	SHEET NAME	
01-General		
CS	PROJECT COVER SHEET	X
06-Demolition		
D1.1	DEMOLITION PLANS	X
07-Architectural		
A1.1	FLOOR PLANS	X
A1.2	ENLARGED PLANS AND DOORS	X
A1.3	DETAILS	X
08-MPE		
MPE-1.1	MPE COVER SHEET	X
MPE-1.2	MECHANICAL SPECIFICATIONS	X
MPE-1.3	ELECTRICAL SPECIFICATIONS	X
09-Mechanical		
M1.2	ENLARGED PLANS, SCHEDULES & DETAILS	X
10-Plumbing		
P-1.1	FLOOR PLANS	X
P-1.2	ENLARGED PLANS	X
P-5.1	DETAILS, SCHEDULES AND DIAGRAMS	X
12-Electrical		
E-1.1	FLOOR PLANS	X
E-1.2	ENLARGED PLANS	X
E-5.1	DETAILS AND DIAGRAMS	X

LOCATION PLAN



PROJECT APPROVED

COMMISSIONER/DEPARTMENT OF PUBLIC PROPERTY

DEPUTY COMMISSIONER/DEPARTMENT OF PUBLIC PROPERTY

PROJECT DIRECTOR/PPP-CAPITAL PROJECTS DIVISION

ART COMMISSION

HISTORICAL COMMISSION

SEALS

CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY
1400 JFK BOULEVARD
7TH FLOOR, CITY HALL
PHILADELPHIA PENNSYLVANIA

PROJECT NO.

13-21-4643-01

DATE

09/09/21

SCALE

DRAWN BY

BH

CHECKED BY

CS

DRAWING NO.

CS





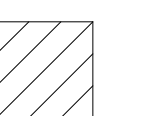
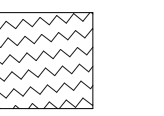
BHA No.: 20-105

NOTE: ALL DIMENSIONS AND CONSTRUCTION SHALL BE DEFINED BY THE CONTRACTOR'S FIELD SITE MEASUREMENTS UNLESS OTHERWISE NOTED.

REVISIONS

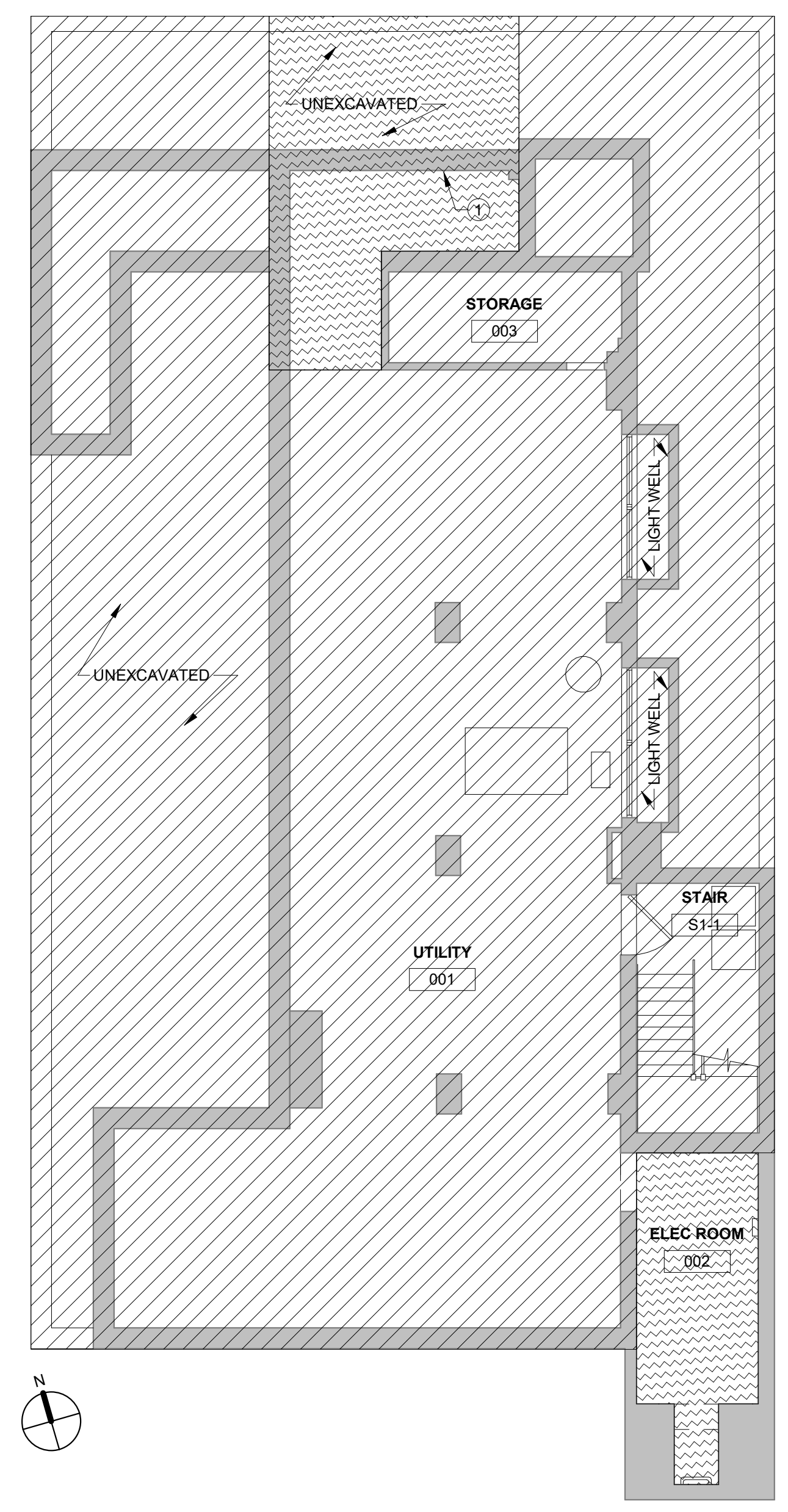
ISSUE	DATE	REVISIONS
	09/09/21	ISSUE FOR BID

FLOOR PLAN LEGEND

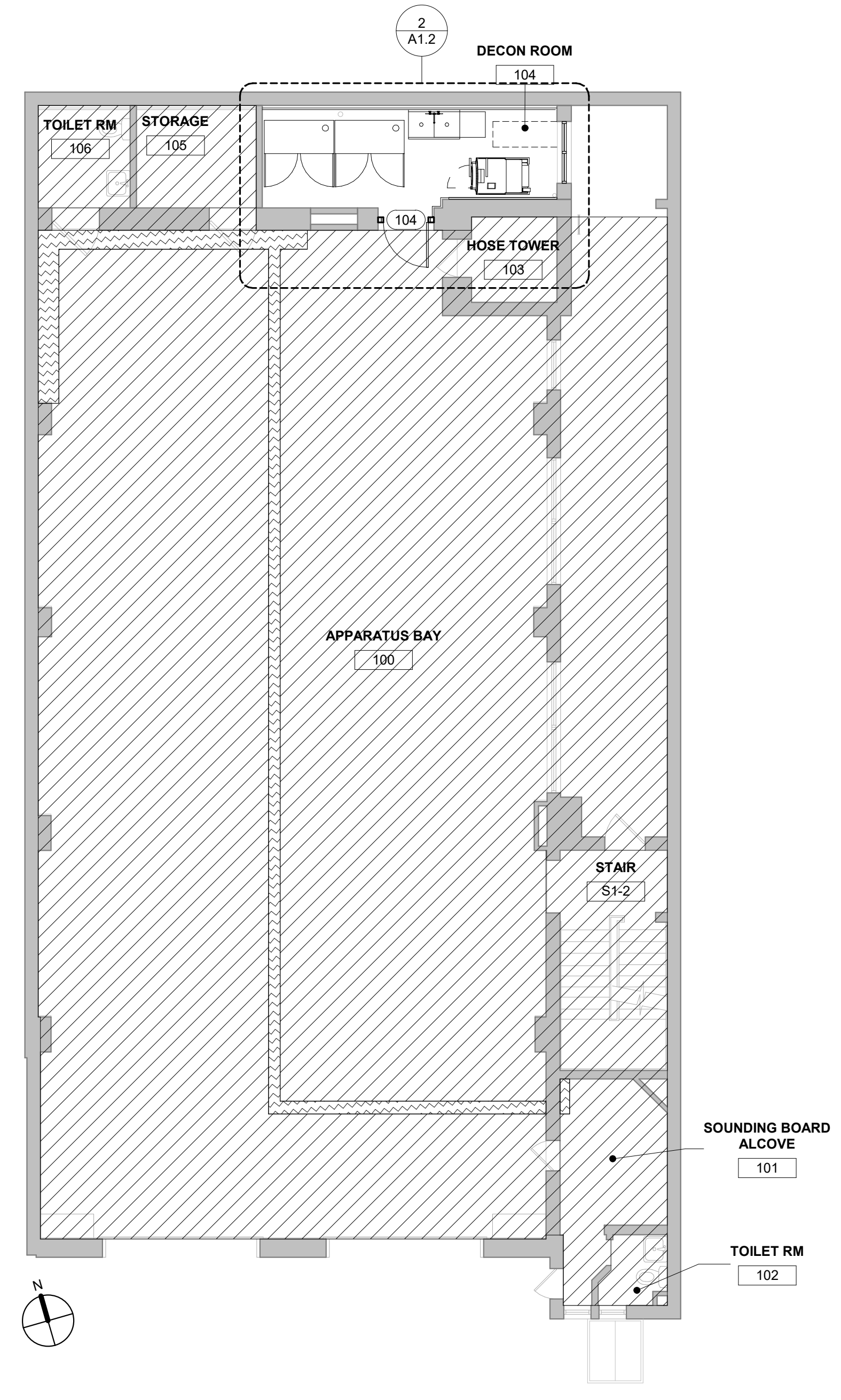
-  EXISTING WALL TO REMAIN
-  NEW WALL
-  EXISTING DOOR TO REMAIN
-  NEW DOOR, SEE SCHED.
-  AREA NOT IN SCOPE
-  SEE MEP DWGS FOR ADDITIONAL SCOPE OF WORK IN THIS AREA

FLOOR PLAN KEYED NOTES

- ① COORDINATE PLACEMENT OF PIPING PENETRATION THROUGH WALL TO FALL BETWEEN BEAMS AND ABOVE BEARING POINT



② **BASEMENT PLAN**
1/8" = 1'-0"



① **1ST FLOOR PLAN**
1/8" = 1'-0"



KYLE O'CONNOR, PROJECT MANAGER

SEALS

SPACE FOR CONSULTANT RECOGNITION



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CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY
1400 JFK BOULEVARD
7TH FLOOR, CITY HALL
PHILADELPHIA, PENNSYLVANIA

PROJECT TITLE
**ENGINE 72
DECONTAMINATION SUITE**

DRAWING TITLE
FLOOR PLANS

PROJECT NO. 13-21-4643-01	DRAWING NO. A1.1
DATE 09/09/21	
SCALE NOTED	
DRAWN BY BH	
CHECKED BY CS	BHA No.: 20-105

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

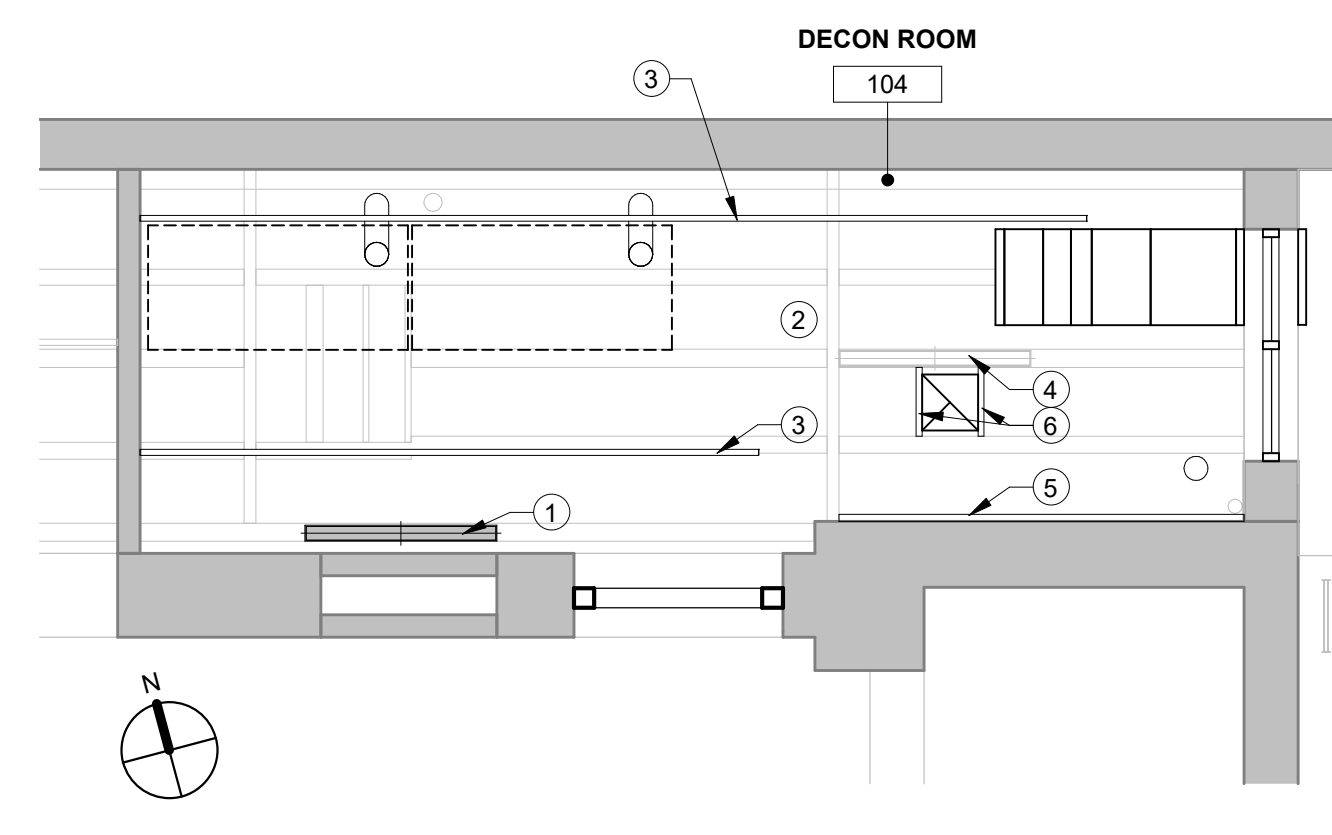
REVISIONS

ISSUE	DATE	REVISIONS
	09/09/21	ISSUE FOR BID

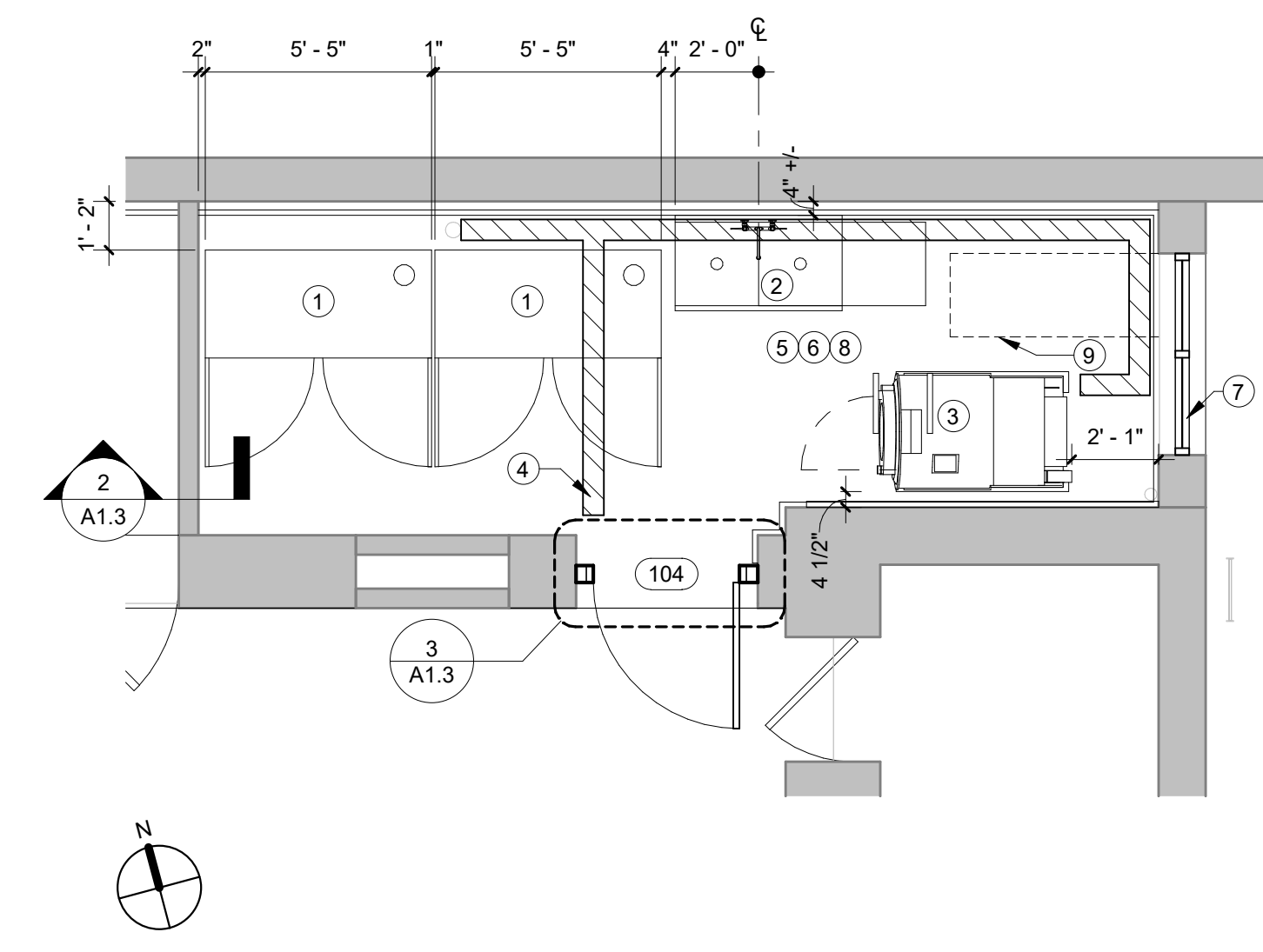
RCP LEGEND

TYPE	DESCRIPTION
	SURFACE MOUNTED UTILITY LIGHT
	EXPOSED STRUCTURE - SCRAPE LOOSE PAINT, PREP SURFACES FOR REPAINTING, AND PAINT. COLOR: SHERWIN WILLIAMS CEILING BRIGHT WHITE

- RCP KEYED NOTES**
- RELOCATE EXISTING FIXTURE TO NEW LOCATION AS SHOWN
 - SCRAPE, PREP, AND PAINT EXPOSED STRUCTURE AND ROOF DECK - PT-1
 - PAINT EXPOSED SPRINKLER PIPE SAFETY YELLOW
 - EXISTING FIXTURE TO REMAIN
 - NEW 2X8 JOIST ANCHORED TO EXISTING MASONRY
 - NEW SUPPLEMENTAL 2X8 WD FRAMING AT NEW ROOF OPENING

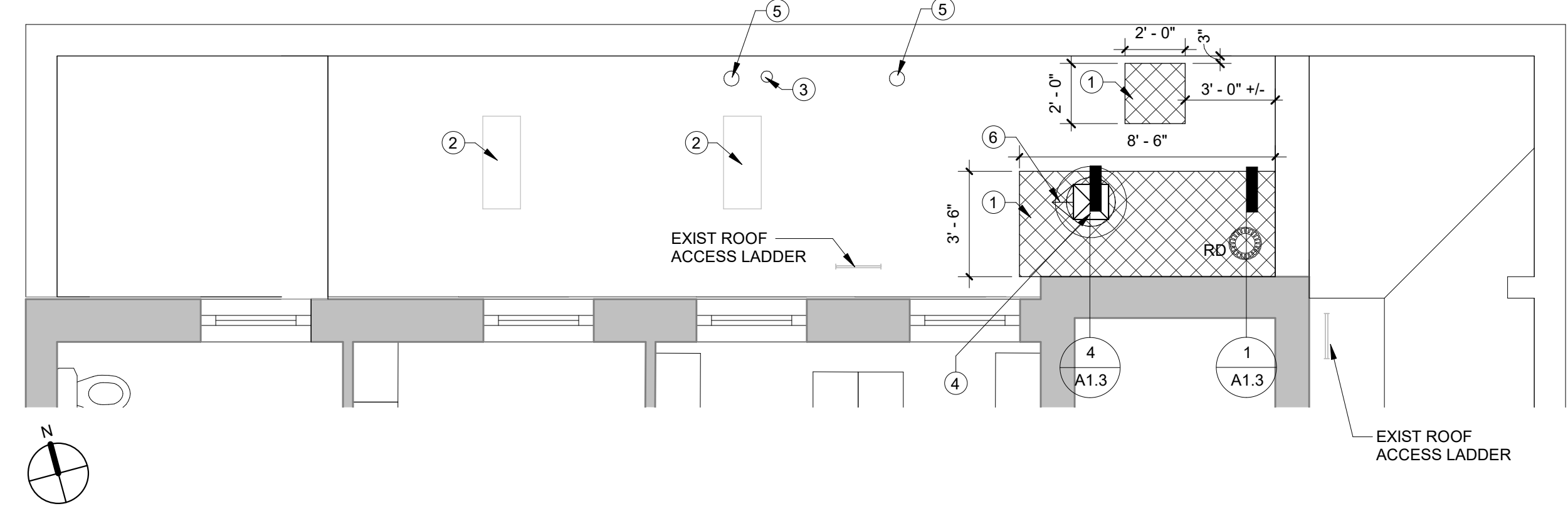


3 ENLARGED DECON ROOM RCP
1/4" = 1'-0"



- FLOOR PLAN KEYED NOTES**
- DRYING CABINET: ADC ECODRY ADFG-6 - OF/CI
 - UTILITY SINK: REGENCY 600S22424B WITH REMOVABLE 24" DRAINBOARD - CF/CI
 - WASHER EXTRACTOR: MILNOR 30022V/RJ - CF/CI - MOUNT TO EXISTING CONCRETE SLAB PER MANUFACTURER'S RECOMMENDATIONS
 - PATCH CONCRETE SLAB IN HATCHED AREA
 - APPLY FLOOR LEVELING COMPOUND OVER EXISTING SLAB TO ESTABLISH SLOPE TO DRAIN AND PREP FLOOR FOR EPOXY INSTALLATION
 - SCRAPE LOOSE PAINT FROM EXISTING MASONRY WALLS, PREP, PRIME, AND PAINT. COLOR: SHERWIN WILLIAMS CEILING BRIGHT WHITE
 - NEW LOUVER IN EXISTING OPENING - FIELD VERIFY SIZE OF EXIST OPNG - SEE MECH DWGS
 - EPOXY FLOOR FINISH, COLOR: TO BE SELECTED FROM STANDARD RANGE
 - LINE OF DUCTWORK ABOVE

2 ENLARGED DECONTAMINATION ROOM PLAN
1/4" = 1'-0"

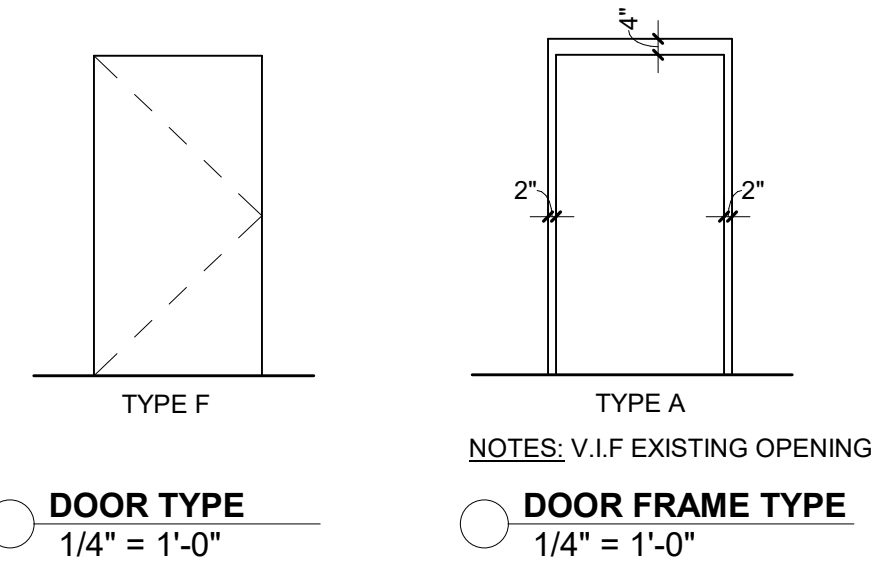


- ROOF PLAN KEYED NOTES**
- HATCH INDICATES AREA OF ROOF DECK AND SYSTEM REPLACEMENT - CONTRACTOR TO FIELD CONFIRM ROOF COMPOSITION
 - EXISTING CONDENSING UNIT TO REMAIN
 - EXISTING VENT TO REMAIN
 - NEW EXHAUST FAN - SEE MECH DWGS
 - DRYER CABINET EXHAUST - NEW PENETRATION IN EXISTING ROOF SYSTEM
 - CRICKET AT NEW ROOF PENETRATION

1 ENLARGED LOW ROOF PLAN
1/4" = 1'-0"

DOOR SCHEDULE

DOOR NO.	DOOR TYPE	ROOM LOCATION NUMBER	ROOM LOCATION NAME	DOOR				FRAME			HARDWARE	COMMENTS	
				WIDTH	HEIGHT	MATERIAL	FINISH	FIRE RATING	TYPE	MATERIAL			FINISH
1ST FLOOR													
104	F	104	DECON ROOM	3'-6"	6'-8"	HM	PTD	--	A	HM	PTD	SET 1	



KYLE O'CONNOR, PROJECT MANAGER

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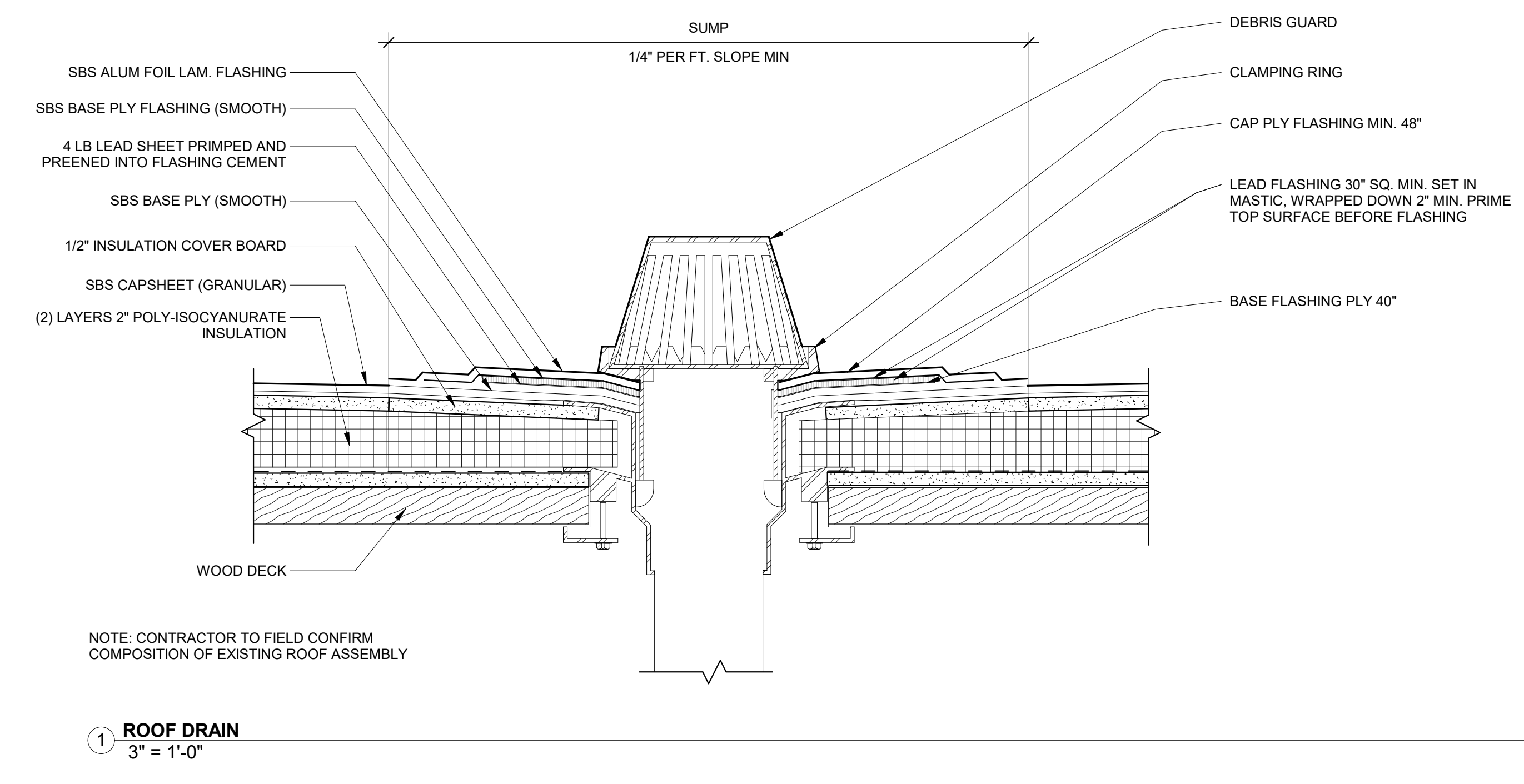
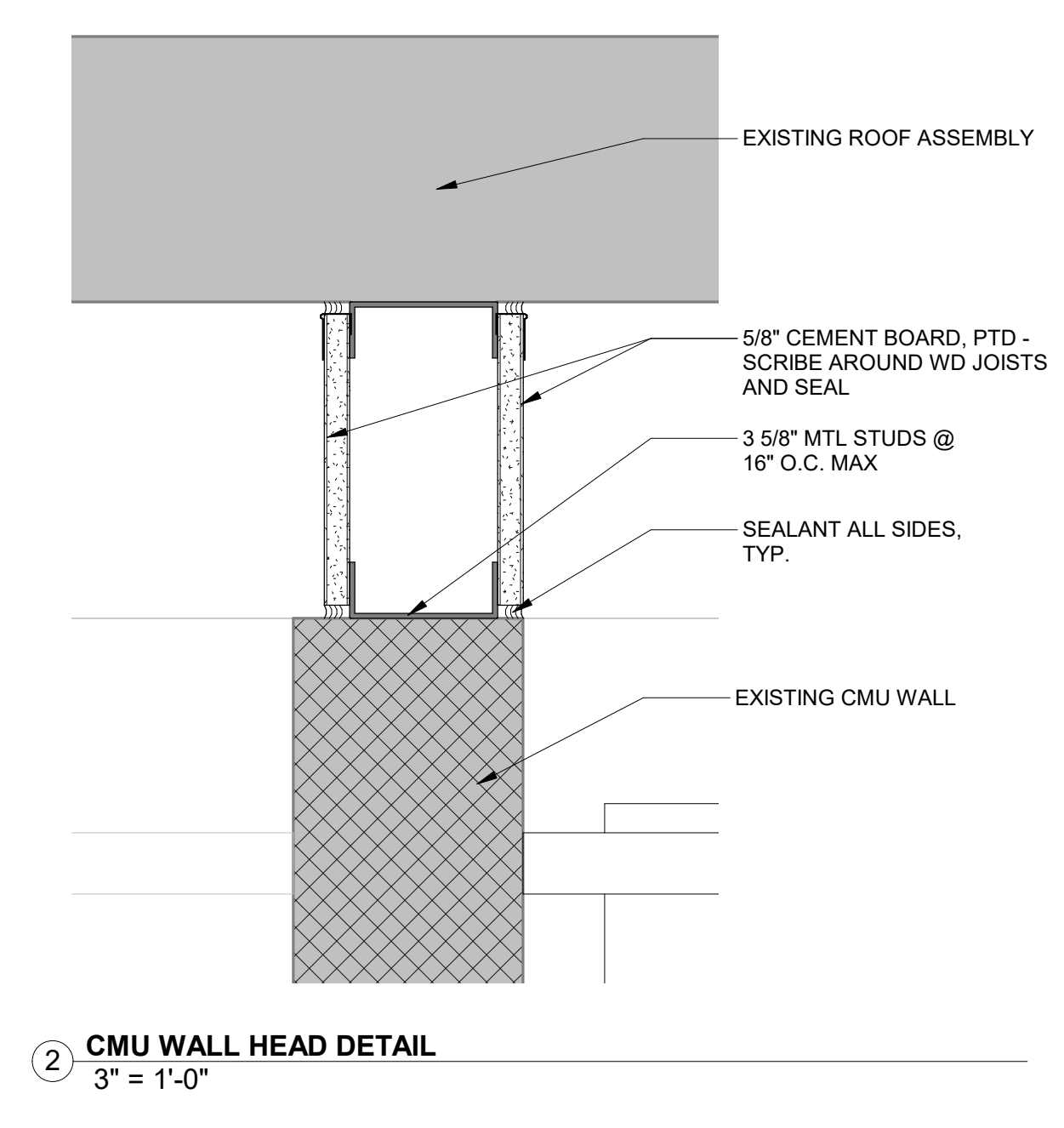
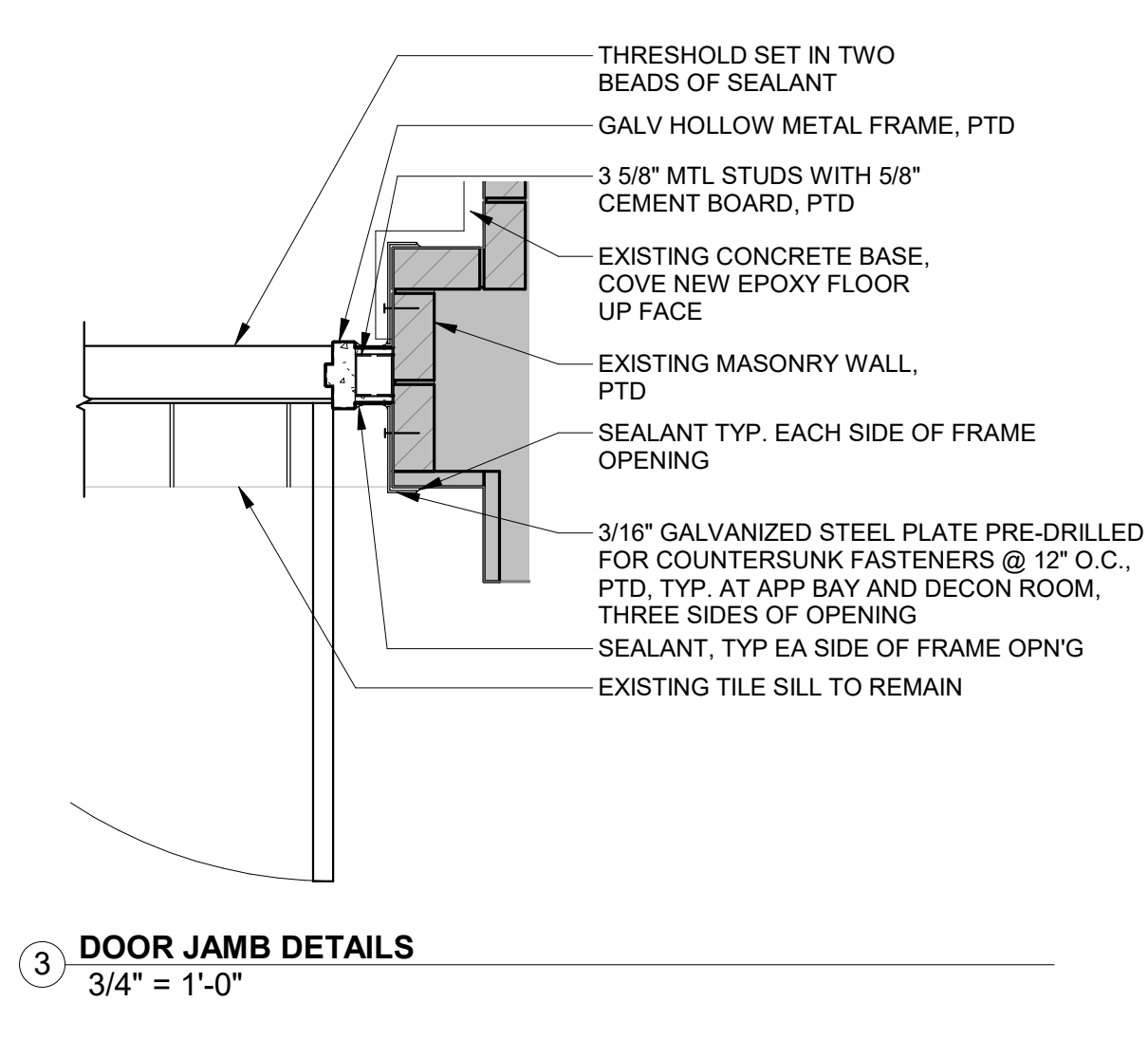
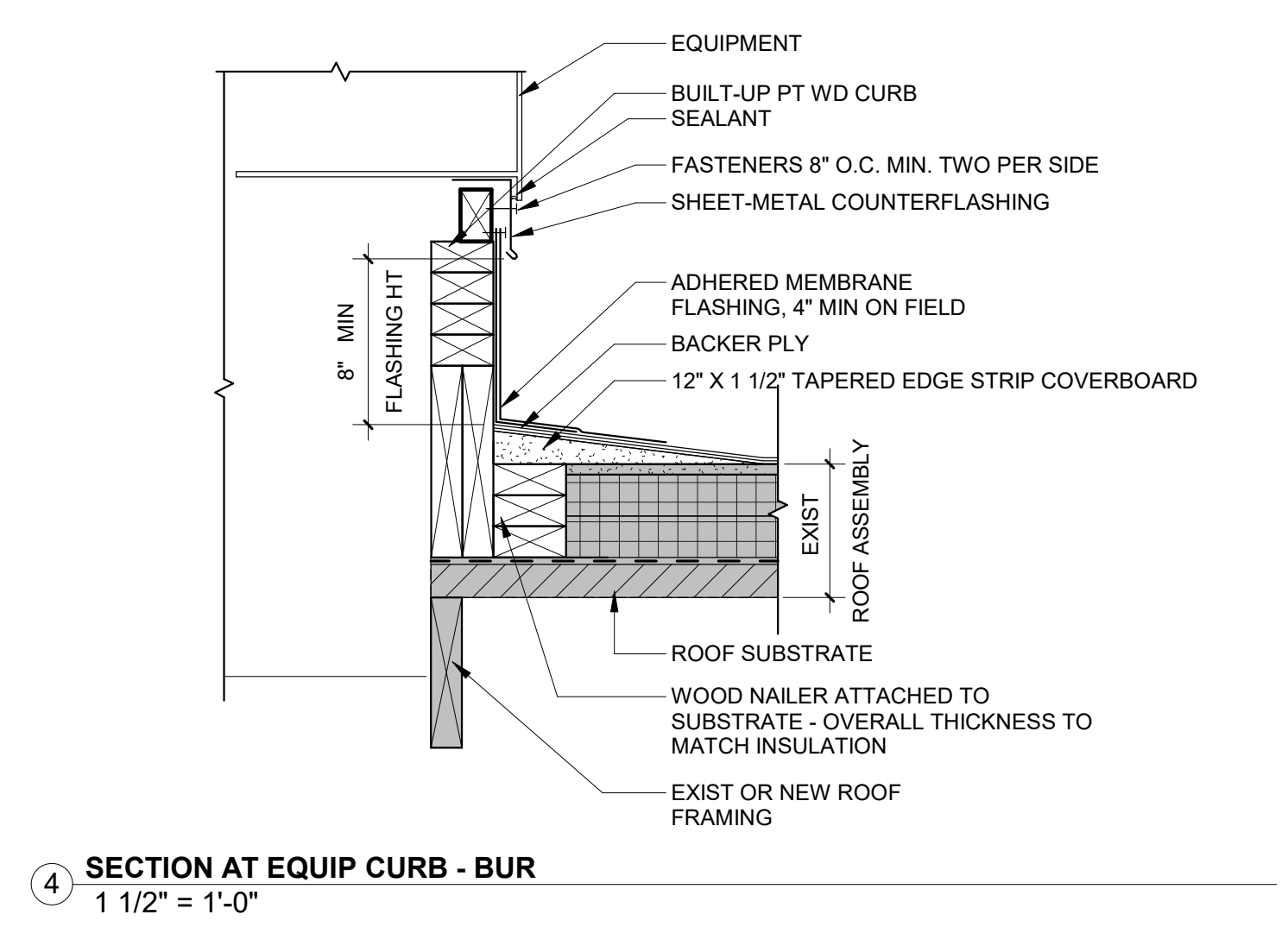
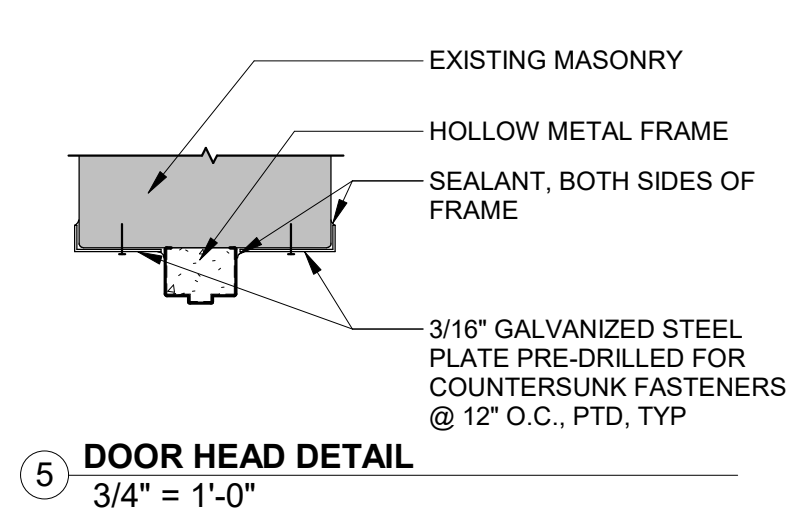
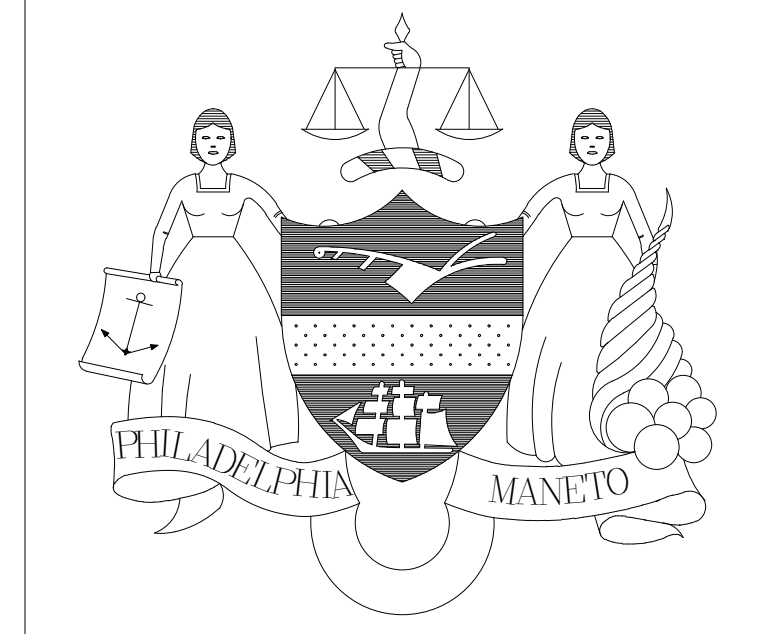
PROJECT TITLE
**ENGINE 72
DECONTAMINATION SUITE**

DRAWING TITLE
**ENLARGED PLANS
AND DOORS**

PROJECT NO. 13-21-4643-01	DRAWING NO.
DATE 09/09/21	A1.2
SCALE NOTED	
DRAWN BY BH	
CHECKED BY CS	BHA No.: 20-105

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

REVISIONS		
ISSUE	DATE	REVISIONS
09/09/21		ISSUE FOR BID



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PROJECT TITLE
**ENGINE 72
DECONTAMINATION SUITE**

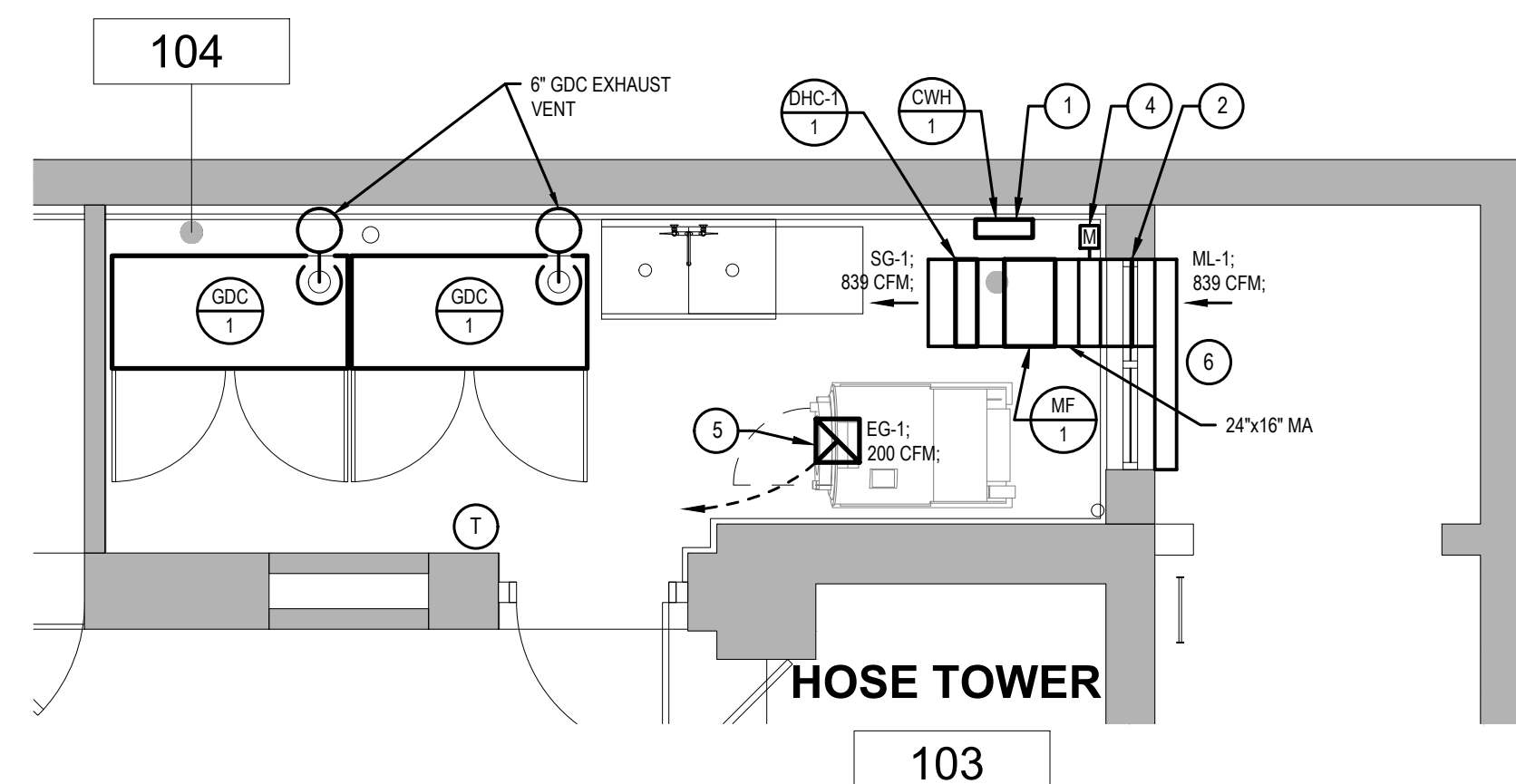
DRAWING TITLE
DETAILS

PROJECT NO. 13-21-4643-01	DRAWING NO.
DATE 09/09/21	A1.3
SCALE NOTED	
DRAWN BY BH	
CHECKED BY CS	
BHA No.: 20-105	

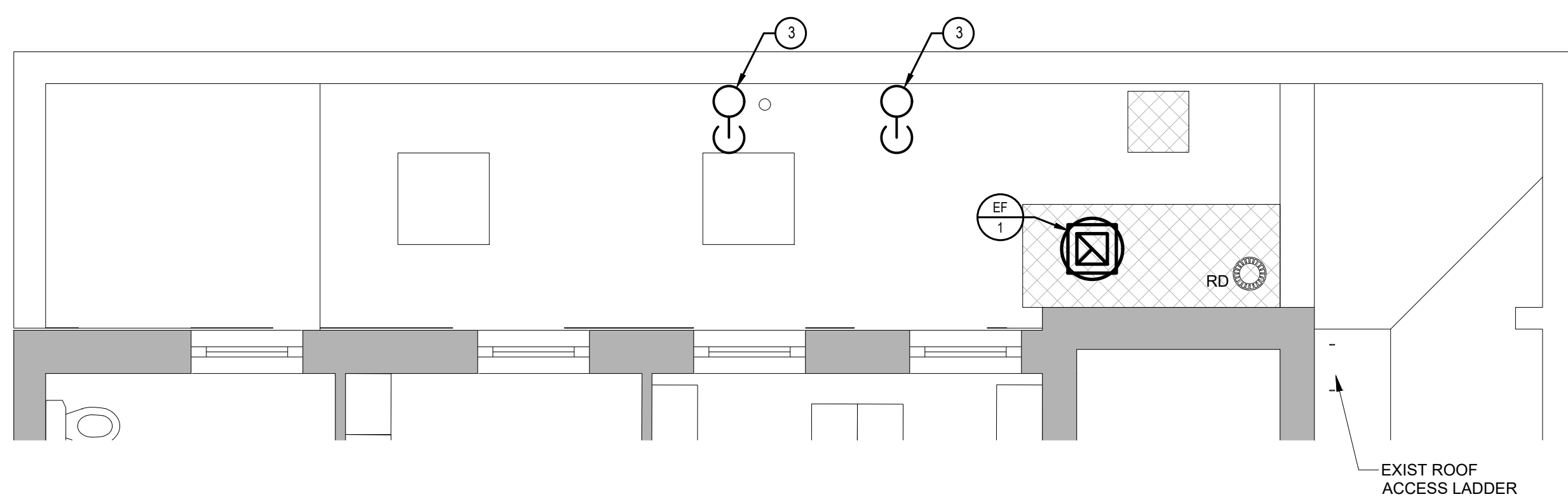
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DRAWING SPECIFICATIONS - MECHANICAL (DIVISION 15)		REVISIONS		
SECTION 1501 - SUMMARY OF THE WORK		ISSUE	DATE	REVISIONS
1. WORK UNDER DIVISION 15 SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: HEATING, VENTILATING, PIPING AND FURNISHING A NEW GAS WASHING UNOCCUPIED LUNAR ROOM M.C. AND P.C. WILL BE RESPONSIBLE FOR INSTALLING ALL OWNER SUPPLIED EQUIPMENT AND OPERATING THE MECHANICAL, PLUMBING AND FIRE PROTECTION WORK AS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND SERVICES FOR THE MECHANICAL, PLUMBING AND FIRE PROTECTION WORK AS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND SERVICES NECESSARY FOR REMOVAL OR RELOCATION OF EXISTING MECHANICAL EQUIPMENT AS REQUIRED BY THE CONTRACTOR. TEST AND OPERATE ALL SYSTEMS TO DEMONSTRATE TO THE OWNER, OR HIS DESIGNATED REPRESENTATIVE, THAT THE INSTALLATION OF THESE SYSTEMS CONFORM TO DESIGN INTENT. THE CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS OF THE OWNER, LOCAL, STATE AND FEDERAL LAWS, ORDINANCES, RULES AND REGULATIONS APPLICABLE TO THE WORK SHOWN OR SPECIFIED, AND WITH THE RULES OF THE NATIONAL FIRE PROTECTION ASSOCIATION, THE OWNERS UNDERWRITERS AND ALL RELATED ELEMENTS, PERTAINING TO THE MECHANICAL, PLUMBING AND FIRE PROTECTION WORK AS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS TO MAKE THE WORK COMPLETE AND PERFECT IN ALL RESPECTS. THE CONTRACTOR MUST FILE NECESSARY DRAWINGS, PERMITS, PREPARE DOCUMENTS AND MAKE APPLICATION FOR EACH REQUIRED PERMIT AND BEFORE SUBMITTING HIS BID, THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF HIS OBLIGATION TO THE OWNER FOR ALL COSTS THAT MAY BE INCURRED DUE TO THE NECESSARY REVISIONS AND MODIFICATION OF ANY PART OF THE EXISTING MECHANICAL, PLUMBING AND FIRE PROTECTION WORK THAT MAY BE REQUIRED, OR ANY CONDITION THAT MAY AFFECT THE COST OF INSTALLING THE NEW WORK. IT IS THE INTENTION OF THE DRAWINGS AND SPECIFICATIONS TO CALL FOR CLEAR FINISHED WORK, TESTED AND READY FOR OPERATION, ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND PERFECT IN ALL RESPECTS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS, SUPPLIES, AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS TO MAKE THE WORK COMPLETE AND PERFECT IN ALL RESPECTS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS, SUPPLIES, AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS TO MAKE THE WORK COMPLETE AND PERFECT IN ALL RESPECTS. SUBMIT ELECTRICAL COPIES OF SHOP DRAWINGS, SHOP DRAWINGS SHALL INCLUDE PLANS, ELEVATIONS, SECTIONS, MOUNTING DETAILS OF COMPONENT PARTS, PIPING ASSEMBLIES, DIAGRAMS, CONTROL WIRING AND ANY OTHER DRAWINGS NECESSARY TO SHOW THE FABRICATION AND CONSTRUCTION OF THE COMPLETE ITEM OR SYSTEM. SHOP DRAWINGS SHALL BE CLEARLY MARKED, INDICATING THE MODEL NUMBER, SERIAL NUMBER, AND ANY AND ALL OPTIONS THAT ARE INCLUDED. THE SLOWING SHOP DRAWINGS SHALL BE SUBMITTED FOR ENGINEERING REVIEW AND APPROVAL. A. FIRE PROTECTION SYSTEMS B. SHEET METAL WORK C. MECHANICAL EQUIPMENT ROOMS - PAD AND EQUIPMENT LAYOUTS (SHOWING ELECTRICAL PANELS AND GEAR OR SIMILAR LARGE COMPONENTS IN THE AREA PROVIDED FOR UNDER OTHER TRADES) D. AUTOMATIC TEMPERATURE CONTROLS E. INSULATION F. HVAC SYSTEMS AND COMPONENTS G. PLUMBING FIXTURES, PIPING, VALVES AND APPURTENANCES H. GRILLS, REGISTERS AND DIFFUSERS I. SPECIALTIES J. VALVES K. SUPPORTS AND ANCHORS L. FIRESTOPPING M. FILTERS N. CONTROL WIRING DIAGRAMS O. LUNTEL DETAILS P. STEEL SUPPORTS AND PLATFORMS Q. CONCRETE FOUNDATIONS R. OTHER PLUMBING SUPPLY AND DRAINAGE PIPING ASSEMBLY DRAWINGS S. ITEMS WHICH MAY BE REQUESTED BY THE OWNERS AGENT RECORD DRAWINGS SHALL BE KEPT IN THE CONTRACTORS JOB SITE OFFICE FROM THE BEGINNING OF THE WORK. THE SET SHALL BE MAINTAINED LATE AND SHALL BE PROVIDED FOR INSPECTION BY THE OWNER OR HIS AGENTS UPON DEMAND. AT THE COMPLETION OF THE PROJECT, THE PRINTS MUST BE SET AND FORWARDED TO THE OWNERS AGENT. THE RECORD DRAWINGS SHALL CONSIST OF A COMPLETE SET OF ALL CONTRACT DRAWINGS ON WHICH SHALL BE RECORDED IN INK OR COLORED PENCIL, THE FOLLOWING: A. PIPING RUNS THAT VARY FROM DESIGN. B. VALVE LOCATIONS. C. DEVICE LOCATIONS. D. ALL WORK ADDED TO THE CONTRACT BY LAYOUT DRAWINGS, FIELD SKETCHES, ADDENDUM OR CHANGE ORDER. E. CONTROL WIRING DIAGRAMS. BEFORE COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL FURNISH THREE COPIES OF MANUALS COVERING IN DETAIL ALL REQUIRED INSTRUCTIONS FOR THE OPERATION OF THE SYSTEMS PROVIDED. FURNISH ALL LABOR REQUIRED BY THE OWNERS AGENT, AND OR INSPECTION AGENCIES IN MAKING EXAMINATION OF WORK, DURING THE COURSE OF CONSTRUCTION. THE CONTRACTOR SHALL FURNISH A WRITTEN WARRANTY FOR THIS INSTALLATION, THE WARRANTY SHALL BE FOR THE LIFE OF THE SYSTEMS AND SHALL COVER ALL APURTENANCES AND THE SYSTEMS WHICH THEY COMPRISE ARE FREE FROM INHERENT DEFECTS OR FLAWS IN WORKMANSHIP OR OPERATION, AND ARE GUARANTEED TO BE OPERATIONAL AND CAPABLE OF PROVIDING SATISFACTORY OPERATION IN ACCORDANCE WITH DESIGN CONDITIONS, ANY DEFECTS IN WORKMANSHIP, DEFECTIVE MATERIALS, MALFUNCTION OF EQUIPMENT OR UNSATISFACTORY PERFORMANCE, AND ALL OTHER WORK DAMAGED THEREBY, SHALL BE REPAIRED, REPLACED OR OTHERWISE REMEDIATED WITHOUT EXPENSE TO THE OWNER, SUCH REPAIRS AND REPLACEMENTS SHALL BE MADE WITHIN REASONABLE TIME AND AT THE CONVENIENCE OF THE OWNER, SUCH WARRANTY SHALL BE IN EFFECT FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE OF THE SYSTEMS AS A WHOLE. MATERIAL OR EQUIPMENT SPECIFIED BY MANUFACTURER, BRAND NAME, TYPE OR CATALOG NUMBER, ARE DESIGNED TO ESTABLISH STANDARDS OF DESIRED QUALITY, TYPE PERFORMANCE, ELECTRICAL, MECHANICAL, AND PHYSICAL CHARACTERISTICS, AND DIMENSIONS. SUBSTITUTION OF ANY ITEMS SO SPECIFIED SHALL BE WITHOUT THE WRITTEN APPROVAL OF THE OWNERS AGENT. WHERE THE SUBSTITUTION REQUIRES ANY REDUCTION OR RELOCATION OF THE CONTRACTORS QUALITY ASSURANCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY OTHER PART OF THE MECHANICAL, ELECTRICAL, STRUCTURAL, OR ARCHITECTURAL WORK, ALL SUCH REDUCTIONS AND ALL THE NEW DRAWINGS AND DETAILS SHALL BE PREPARED BY THE CONTRACTOR AT HIS OWN EXPENSE AND SUBMITTED FOR THE APPROVAL OF THE OWNERS AGENT, ALL SUCH ADDITIONAL WORK AND ADDITIONAL EQUIPMENT FOR THESE SYSTEMS SHALL BE PROVIDED AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE UPON REQUEST, COPIES OF MATERIAL SAFETY DATA SHEETS FOR ANY MATERIAL OR PRODUCT USED IN THE WORK AND NOT SUPPLIED BY THE OWNER. MSDS SHEETS SHALL BE PROVIDED PRIOR TO DELIVERY OF MATERIALS TO THE JOB SITE. WORKMANSHIP SHALL BE FIRST CLASS IN EVERY RESPECT AND SHALL BE PERFORMED BY TRADESMAN SKILLED IN THE PARTICULAR AREA OF THE WORK AND IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE OR PUBLIC UTILITY ORDINANCES OR REGULATIONS. THE CONTRACTOR SHALL EFFECTIVELY PROTECT EXISTING WORK, UTILITIES, CONTENTS AND ALL HIS NEW WORK AGAINST DAMAGE FROM ANY SOURCE RELATED TO THIS CONTRACT. UNLESS FULLY COMPLETED AND ACCEPTANCE BY THE OWNER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNERS AGENT. AT ALL TIMES, KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL, AND RUBBISH CAUSED BY AGENTS AND EMPLOYEES OF THE CONTRACTOR. THE CONTRACTOR SHALL NOT PERFORM ANY FUNCTIONS WHICH WILL INTERRUPT MECHANICAL, ELECTRICAL, STRUCTURAL OR OTHER WORK IN PROGRESS. APPROVAL OF THE OWNER, NECESSARY INTERUPTIONS SHALL BE REVIEWED, SCHEDULED AND APPROVED BY THE OWNER, DURING PARTIAL OR FULL OCCUPANCY OF THE FACILITY. ALL WORK SHALL BE SCHEDULED AND COORDINATED WITH THE OWNER SO THAT DISRUPTION TO THE AREAS INVOLVED IS KEPT TO A MINIMUM. THE CONTRACTOR SHALL OBTAIN A MINIMUM OF FIVE WORKING DAYS NOTICE OF ANY AND ALL WORK THAT WILL INTERFERE WITH THE OWNERS OPERATION SO A SCHEDULE SUITABLE TO THE OWNER CAN BE ARRANGED. ANY INCIDENTAL INTERUPTIONS TO SERVICES SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNER.		09/09/21	ISSUED FOR BID	
19. PROVIDE SCAFFOLDING, LADDERS, ROOSTING AND ALL OTHER EQUIPMENT REQUIRED FOR THE INSTALLATION OF THE WORK.		SECTION 1590 - AUTOMATIC TEMPERATURE CONTROLS		
20. ESTABLISH PASSAGE CLEARANCES REQUIRED TO DELIVER, INSTALL, AND ERECT ALL REQUIRED EQUIPMENT, F. STRUCTURES, EQUIPMENT AND SYSTEMS MUST BE ALTERED TO PROVIDE PASSAGE OF EQUIPMENT. THE CONTRACTOR SHALL RESTORE STRUCTURES, EQUIPMENT AND SYSTEMS TO THEIR ORIGINAL CONDITION, AT THE CONTRACTORS EXPENSE.		1. SEE CONTROL, SEQUENCE NOTES AND CONTROL DIAGRAM LOCATED ON 2-D DRAWINGS FOR DETAILED INSTRUCTIONS.		
21. AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL MAKE A THOROUGH INSPECTION OF ALL THE MECHANICAL, PLUMBING AND FIRE PROTECTION WORK. THE CONTRACTOR SHALL PROVIDE A WRITTEN REPORT TO THE OWNER, WHICH SHALL BE 100 PERCENT COMPLETE AND TESTS SHALL BE PERFORMED IN STRICT COMPLIANCE WITH EACH EQUIPMENT MANUFACTURERS STANDARD TEST PROCEDURES AND INSTRUMENTS, METERS, WIRING, PERSONNEL ETC., REQUIRED FOR TESTING SHALL BE INCLUDED UNDER THIS CONTRACT.		SECTION 1596 - TESTING, ADJUSTING AND BALANCING		
22. PROVIDE SERVICES OF MANUFACTURER FACTOR ENGINEERS TO SUPERVISE INSTALLATION, FINAL CONNECTIONS AND TESTING. PROVIDE SERVICES OF FACTOR ENGINEERS OR REPRESENTATIVES WHO SHALL GIVE FULL INSTRUCTIONS AND DEMONSTRATIONS IN THE OPERATION AND MAINTENANCE OF ALL THE MECHANICAL, SYSTEMS AND EQUIPMENT INSTALLED TO THE DESIGNATED REPRESENTATIVE OF THE OWNER.		1. PRIOR TO MAKING FINAL CONNECTIONS TO EXISTING WASTE AND VENT LINES, TEST NEW WASTE AND VENT PIPING FOR LEAKS BY MEANS OF HYDROSTATIC HEAD EQUIPMENT TO THE WORKING AREA. CORRECT ALL LEAKS THAT DEVELOP.		
SECTION 1515 - CUTTING AND PATCHING		2. AT THE COMPLETION OF THE WORK, ALL NEW EQUIPMENT AND ALL PIPING AND CONTROL SYSTEMS SHALL BE ISOLATED BY MEANS OF WELDED PIPING TO THE APPROXIMATE NUMBER OF PIPE ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS, ALL SUCH ADJUSTING AND BALANCING SHALL BE IN ACCORDANCE WITH THE SPECIFIC CODES UNDER WHICH THE WORK IS BEING PERFORMED.		
1. NEW OPENINGS THROUGH MASONRY WALLS SHALL BE PROVIDED FRONT AND BACK BY ANGLE IRON LUNTELS. PROVIDE NEW LUNTELS IF EXISTING OPENINGS TO BE UTILIZED ARE NOT SUITABLY SUPPORTED.		3. BEFORE ANY OPERATIONS ARE BALANCED THE CONTRACTOR UNDER THIS SPECIFICATION SHALL SUBMIT TO THE ENGINEER, FOR APPROVAL, THE BALANCING METHODS AND INSTRUMENTS HE PROPOSES TO USE. THE CONTRACTOR SHALL NOT PROCEED WITH ANY INSTRUMENTS THAT SHALL BE CALIBRATED BEFORE BEING FIRST USED, AND ADDITIONALLY, DURING THE PROCESS OF THE BALANCING, IT IS THE OPINION OF THE ENGINEER, SUCH RECALIBRATION IS NECESSARY.		
2. OPENINGS THROUGH FLOORS FOR PIPING SHALL BE CORE BORED.		4. PROVIDE ALL REQUIRED BELTS, SHEAVES, ETC. TO ASSURE DELIVERY OF THE REQUIRED AIR QUANTITIES. SUPPLY, RETURN AND EXHAUST AIR QUANTITIES SHALL BE MEASURED AND RECORDED.		
3. AT ALL PENETRATIONS OF WALLS, PARTITIONS, CEILING OR FLOOR CONSTRUCTION, COMPLETE SEAL VOIDS WITH U/L FIRE-RATED MATERIAL TO FULL THICKNESS OF THE PENETRATION AND ALL RELATED ELEMENTS, PERTAINING TO THE MECHANICAL, PLUMBING AND FIRE PROTECTION WORK AS INDICATED ON THE DRAWINGS.		5. PREPARE AIR BALANCE REPORT IN ACCORDANCE WITH NEB "PROCEDURAL STANDARDS" FOR TESTING, ADJUSTING AND BALANCING OF ENVIRONMENTAL CONTROL SYSTEMS FOR THE NEW SYSTEM. THE REPORT SHALL BE APPROVED AND SUBMITTED TO THE ENGINEER FOR APPROVAL. A CONTRACTOR APPROVED BY THE NEB OR ABCI SHALL PREPARE BALANCING REPORT. NEB OR ABCI FORMS SHALL BE USED FOR THE REPORT.		
4. WHERE NEW OPENINGS ARE CREATED BY THE REMOVAL OF DUCTWORK, PIPING, ETC., COMPLETELY SEAL VOIDS WITH U/L FIRE-RATED MATERIAL TO FULL THICKNESS OF THE OPENING ELEMENTS, RESTORING THE AREA TO MAINTAIN THE SPECIFIED LEVEL OF INTEGRITY OF THE AREA PENETRATED.		6. ALL SUPPLY AND RETURN AIR OUTLETS WITH AN AIR QUANTITY INDICATED SHALL BE TESTED AND BALANCED. ALL MAIN TRUNK DUCTS SHALL HAVE PILOT TRAVELERS AND DIRECT AIR DOWNWARD. LOWER WINDING SHALL HAVE A FORMED EDGE TO AVOID STRENGTH. MOTOR COVER SHALL BE DRAWN FROM A DISC. ALL HOUSING COMPONENTS SHALL HAVE FULL THICKNESS EQUAL TO OR GREATER THAN THE COVER. THE MOTOR COVER SHALL BE PRE-PUNCHED MOUNTING HOLES TO ENSURE CORRECT ATTACHMENT WITH RIGID INTERNAL SUPPORT STRUCTURE AND BE LEAK PROOF.		
5. WHERE NEW OPENINGS ARE CREATED BY THE REMOVAL OF DUCTWORK, PIPING, ETC., COMPLETELY SEAL VOIDS WITH U/L FIRE-RATED MATERIAL TO FULL THICKNESS OF THE OPENING ELEMENTS, RESTORING THE AREA TO MAINTAIN THE SPECIFIED LEVEL OF INTEGRITY OF THE AREA PENETRATED.		7. INSURE SUPPORTS AND DRIVE FRAME. DRIVE FRAME ASSEMBLIES SHALL BE CONSTRUCTED OF HEAVY GAUGE STEEL AND MOUNTED ON VIBRATION ISOLATORS.		
6. PROVIDE DUST CONTAINMENT PARTITIONS AND TEMPORARY EXHAUST SYSTEMS TO MAINTAIN A NEGATIVE PRESSURE UNDER THE WORK AREA.		8. AFTER FINAL TESTING FOR LEAKS, ALL POTABLE WATER LINES SHALL BE TESTED FOR LEAKS. THE SYSTEMS SHALL BE REPAIRED, BEFORE PLACING THE SYSTEMS IN SERVICE, IN ACCORDANCE WITH THE APPLICABLE SERVICE ORGANIZATION TO STERILIZE THE WATER LINES.		
SECTION 1603 - EXCAVATION		A. SUBMIT CERTIFICATE TO ARCHITECT SHOWING SYSTEM HAS BEEN STERILIZED.		
1. EACH CONTRACTOR SHALL PROVIDE ALL EXCAVATIONS, LABOR, MATERIAL, EQUIPMENT, SHEETS, BRACING, BACKFILL, DISPOSAL, AND RESTORATION OF SERVICES RELATING TO THEIR RESPECTIVE TRADE.		SECTION 1596 - WATER TREATMENT		
2. INSTALL AND OPERATE TEMPORARY PUMPS TO KEEP THE EXCAVATION DRY.		1. AFTER FINAL TESTING FOR LEAKS, ALL POTABLE WATER LINES SHALL BE TESTED FOR LEAKS. THE SYSTEMS SHALL BE REPAIRED, BEFORE PLACING THE SYSTEMS IN SERVICE, IN ACCORDANCE WITH THE APPLICABLE SERVICE ORGANIZATION TO STERILIZE THE WATER LINES.		
3. BACKFILL SHALL BE CLEAN FRESH, FREE OF ROCK, STONES AND DEBRIS. SURPLUS EARTH SHALL BE REMOVED FROM THE SITE.		SECTION 1596 - WATER TREATMENT		
4. EXCAVATE TO PROVIDE MINIMUM PRACTICAL, BUT ADEQUATE, WORKING CLEARANCES.		1. AFTER FINAL TESTING FOR LEAKS, ALL POTABLE WATER LINES SHALL BE TESTED FOR LEAKS. THE SYSTEMS SHALL BE REPAIRED, BEFORE PLACING THE SYSTEMS IN SERVICE, IN ACCORDANCE WITH THE APPLICABLE SERVICE ORGANIZATION TO STERILIZE THE WATER LINES.		
5. DO NOT EXCAVATE BELOW REQUIRED DEPTHS, AND HAND EXCAVATE BOTTOM CUT TO ACCURATE ELEVATIONS.		SECTION 1596 - WATER TREATMENT		
6. DO NOT BACKFILL LUNTEL, INSTALLED WORK HAS BEEN TESTED AND ACCEPTED.		1. AFTER FINAL TESTING FOR LEAKS, ALL POTABLE WATER LINES SHALL BE TESTED FOR LEAKS. THE SYSTEMS SHALL BE REPAIRED, BEFORE PLACING THE SYSTEMS IN SERVICE, IN ACCORDANCE WITH THE APPLICABLE SERVICE ORGANIZATION TO STERILIZE THE WATER LINES.		
7. UNLESS NOTED OTHERWISE, THE CONTRACT SHALL BE BASED ON UNCLASSIFIED EXCAVATION.		SECTION 1596 - WATER TREATMENT		
8. SCHEDULE EXCAVATION TO AVOID DISRUPTION OF ACCESS TO THE SITE. PROVIDE SCHEDULE FOR VEHICULAR ACCESS AND/OR PEDESTRIAN ACCESS AS REQUIRED.		SECTION 1596 - WATER TREATMENT		
9. SHOULD EXCAVATION PROCESS INVOLVE CONTAMINATED SOIL, HAZARDOUS MATERIAL, OR UNSTABLE SOIL, THIS CONTRACTOR SHALL STOP WORK AND NOTIFY THE OWNERS AGENT FOR DIRECTION.		SECTION 1596 - WATER TREATMENT		
10. ALL SURFACES, DRIVEWAYS, LAWNS, SIDEWALKS, AND SO ON, DAMAGED BY EXCAVATION SHALL BE RESTORED TO ORIGINAL CONDITION AND SHALL BE RESTORED IN A MANNER APPROVED BY THE OWNER AND/OR AGENT.		SECTION 1596 - WATER TREATMENT		
SECTION 1510 - VALVES		SECTION 1596 - WATER TREATMENT		
1. VALVES SHALL BE OF THE TYPES AND RATINGS SPECIFIED. FIGURE NUMBERS USED SHALL BE THE SAME AS SHOWN ON THE DRAWINGS. VALVE BRANDS SHALL BE: BARNETT, MILWAUKEE, NIBCO, JENNIS, OR STOCKHAM.		SECTION 1596 - WATER TREATMENT		
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83. VALVES SHALL BE OF THE TYPES AND RATINGS SPECIFIED. FIGURE NUMBERS USED SHALL				

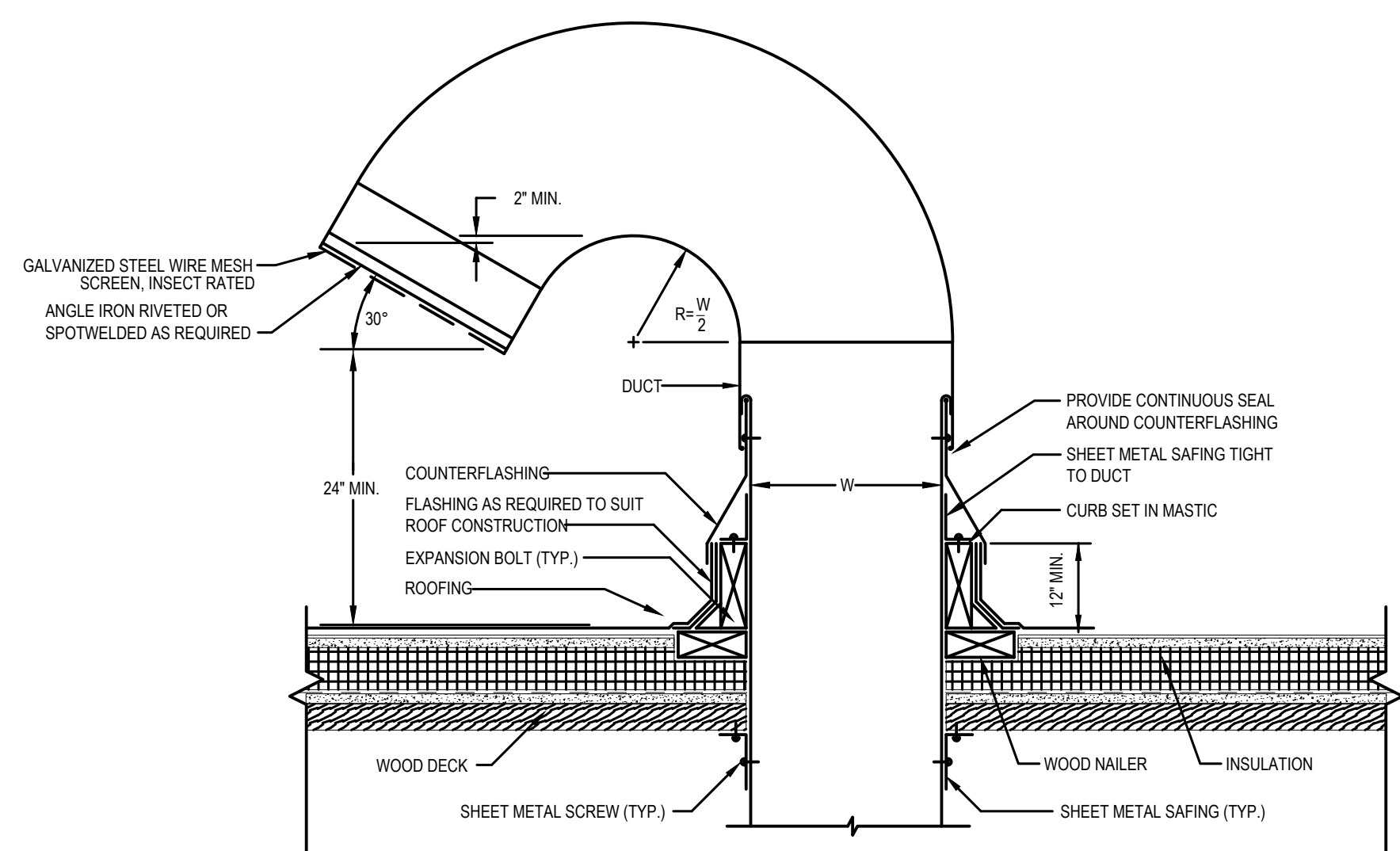
DECON ROOM



1 PARTIAL FIRST FLOOR PLAN
MECHANICAL NEW WORK
SCALE : 1/4" = 1'-0"



2 PARTIAL ROOF PLAN
MECHANICAL NEW WORK
SCALE : 1/4" = 1'-0"



3 GOOSENECK GDC EXHAUST
DUCT THROUGH ROOF DETAIL
SCALE : NONE

FAN SCHEDULE

No	LOCATION	TYPE	CFM	W	RPM	ESP (IN.W.C)	DRIVE	ELECTRICAL DATA			BASIS OF DESIGN	NOTES
								V	Ø	Hz		
EF-1	ROOF TOP AREA OF DECON ROOM 104	ROOF MOUNTED DOWNBLAST DIRECT DRIVEN EXHAUST FAN	200	1.6 HP	1140	0.20	DIRECT	115	1	60	GREENHECK 500V 6" X 10" W/ Ø100	INSTALLED AND FURNISHED BY M.C. MOUNT ON ROOF CURB. W/ BACK DRAFT DAMPER (GREEN HECK BD-100. SPRING LOADED) AND TERMINATED WITH AN EXHAUST GRILLE. PROVIDE ROOF PENETRATION. SEE CONTROL NOTES DIAGRAM FOR DETAILS. COORDINATE CONTROL. MEANS OF DISCONNECT INSTALLATION WITH E.C.
MF-1	DECON ROOM 104	INLINE MOUNTED SUSPENDED FROM ROOF MAKE UP AIR FAN	839	467 W	1070	0.66	DIRECT	115	1	60	GREENHECK CSP-A1050	INSTALLED AND FURNISHED BY M.C. MOUNT INLINE ON THE DUCT. SEE CONTROL NOTES DIAGRAM FOR DETAILS. COORDINATE CONTROL. MEANS OF DISCONNECT INSTALLATION WITH E.C.

ELECTRIC CABINET WALL HEATER SCHEDULE

No	LOCATION	TYPE	BASIS OF DESIGN	KW	ELECTRICAL DATA			FAN DATA	NOTES
					V	Ø	Hz		
WCH-1	DECON ROOM 104	SEMI RECESSED CABINET WALL HEATER	BERRI FR48M424F	4.2	240	1	60	100	INSTALLED AND FURNISHED BY M.C. MOUNT AT 3' 6" A.F.F. PROVIDE THERMOSTAT AND SEE CONTROL DIAGRAM AND NOTES FOR DETAILS. PROVIDE A SURFACE MOUNTING BOX KIT (PREFIX "SM") AND MOUNT ON SURFACE INSTEAD OF RECESSED. SEE ELECTRICAL PLANS FOR MEANS OF DISCONNECT. PROVIDE MOUNTING EQUIPMENT REQUIRED.

ELECTRIC DUCT HEATER COIL

No	LOCATION	TYPE	BASIS OF DESIGN	KW	ELECTRICAL DATA			AIR FLOW DATA		NOTES	
					V	Ø	Hz	CFM	PRESSURE DROP		DELTA T/F
DHC-1	DECON ROOM 104	DUCT HEATER COIL OPEN COIL W/ PRESSURE PLATE DESIGN	INDECO	16	240	1	60	839	0.034" W.C.	80°F	INSTALLED AND FURNISHED BY M.C. MOUNT INSIDE DUCT AFTER THE MF-1 AS INDICATED ON FLOOR PLANS. SEE CONTROL NOTES DIAGRAM FOR DETAILS. COORDINATE CONTROL. MEANS OF DISCONNECT INSTALLATION WITH E.C. PROVIDE INTEGRAL PLC TO START ON 70°F AND CUT OFF AT 80°F. MOUNT INSIDE DUCT BEHIND COIL.

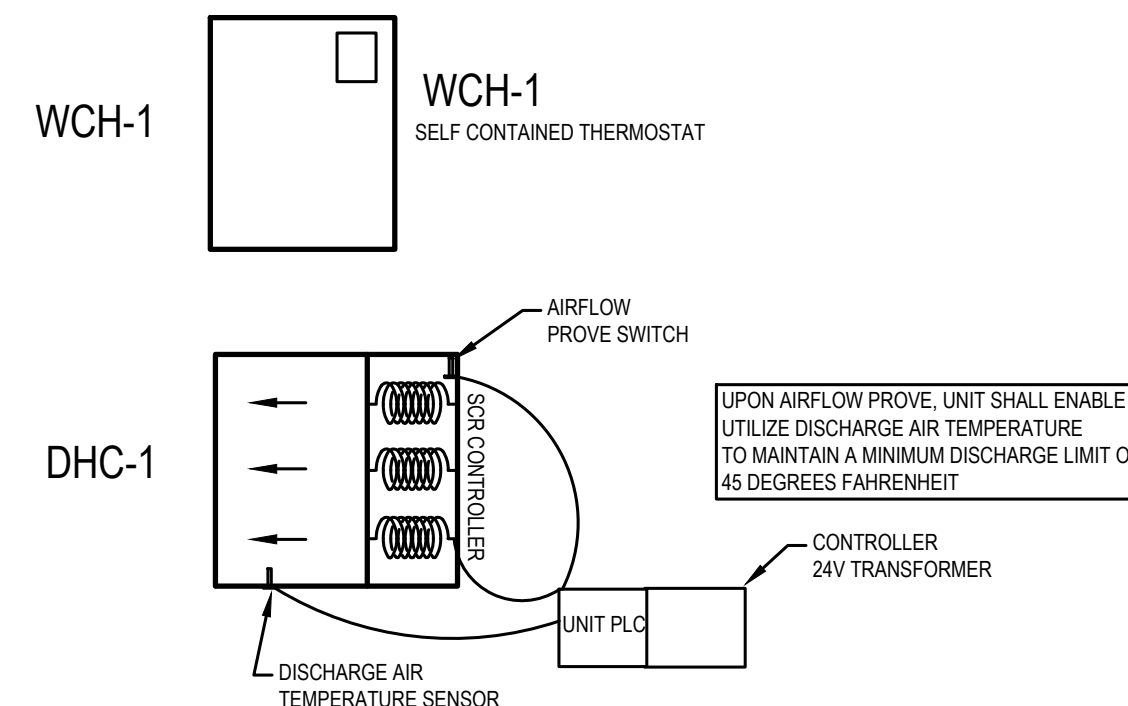
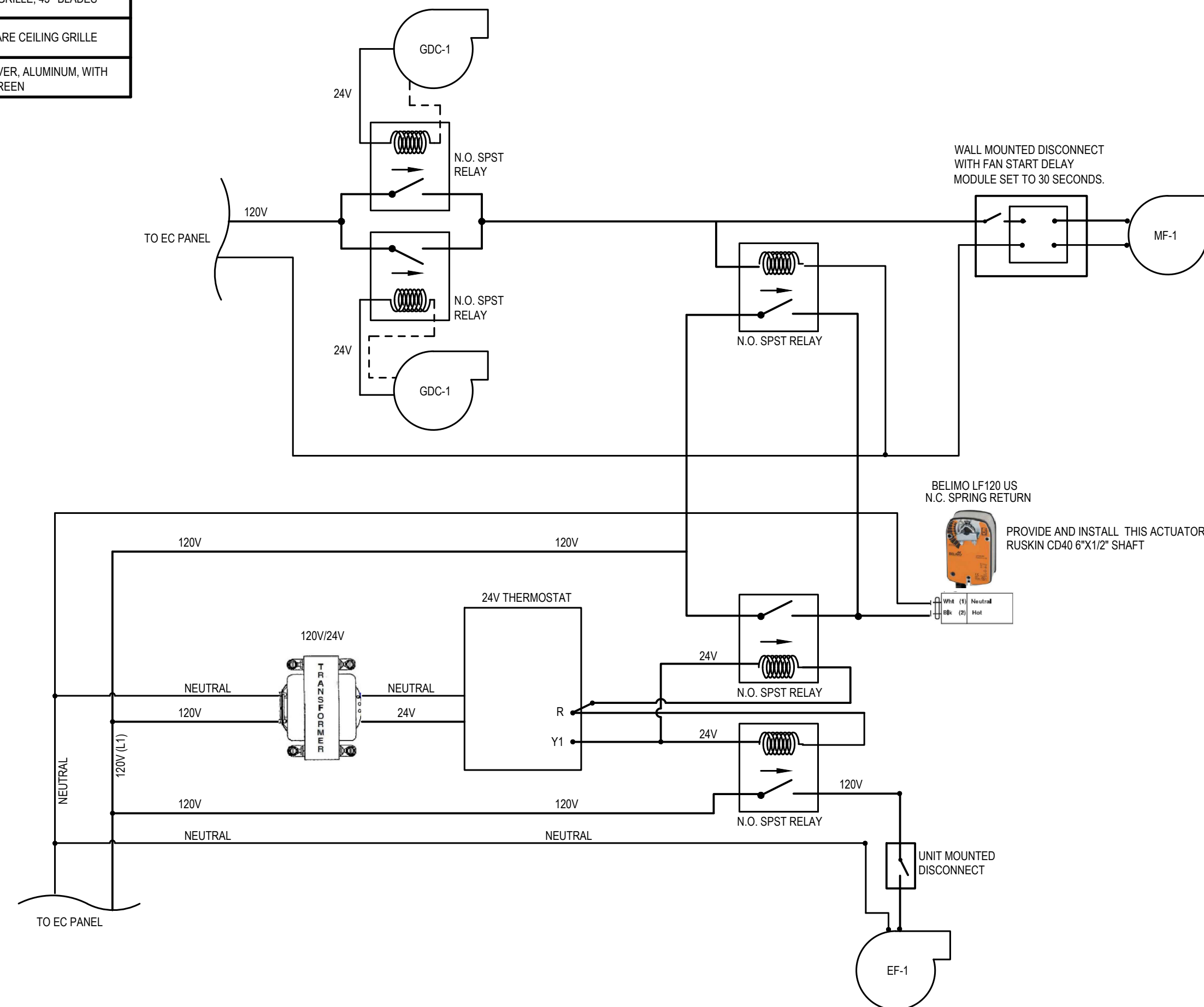
PROVIDE AND INSTALL WITH UNIT CONTROLLER (PLC) AND SCR CONTROL. NOTED TO CONTROL DETAIL FOR FURTHER REQUIREMENTS.

GEAR DRYING CABINET

No	LOCATION	TYPE	BASIS OF DESIGN	KW	ELECTRICAL DATA			EXHAUST DATA	NOTES
					V	Ø	Hz		
GDC-1	DECON ROOM 104	FLOOR MOUNTED CABINET	ADC LAUNDRY MODEL ADFG-6	12	240	1	60	300	INSTALLED BY M.C. SELECTED FURNISHED BY OPIPPD. NO SUBSTITUTIONS WILL BE ACCEPTED. SEE PLUMBING DRAWINGS FOR DRAIN LINES. FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS. NO MORE THAN 2 90° ELBOWS IN EXHAUST DUCT. COORDINATE CONTROL. MEANS OF DISCONNECT INSTALLATION WITH E.C.

AIR DEVICE SCHEDULE

DEVICE NO.	FUNCTION	NECK SIZE	MANUFACTURER & MODEL NO.	FINISH	NC LEVEL	REMARKS
SG-1	MAKE UP	24"x18"	KRUEGER 80 STEEL	WHITE	<30	LOUVERED FACE SUPPLY GRILLE: 45° BLADES
EG-1	EXHAUST	14"x14"	KRUEGER 6490	WHITE	<30	STEEL PERFORATED SQUARE CEILING GRILLE
ML-1	MAKE UP	58"x40"	RUSKIN ELF211	GRAY	<30	THIN LINE STATIONARY LOUVER, ALUMINUM, WITH VERMIL SCREEN



4 CONTROL WIRING
DIAGRAMS
SCALE : NONE

NOTES :

- REFER TO DRAWING MPE1.1 FOR HVAC, PLUMBING/FIRE PROTECTION & ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS & DRAWING LIST.
- ALL EXPOSED DUCTWORK SHALL BE 1" ACoustically LINED. EXPOSED DUCTWORK SHALL NOT BE EXTERNALLY LINED AND CONTRACTOR SHALL REMOVE ALL MARKINGS FROM EXPOSED DUCTWORK. UNEXPOSED DUCTWORK SHALL BE EXTERNALLY INSULATED PER SPECIFICATION.
- WORK TO CONFORM TO PHILADELPHIA IBC 2018 AS ADOPTED BY COUNTY OF PHILADELPHIA
- THIS DRAWING IS DIAGRAMMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING DUCT ROUTES WITH ALL OTHER TRADES. NO SUPPORT HANGER OR CLAMP TO BE MOUNTED ON DUCTWORK. CONSULT STRUCTURAL TEAM FOR ALL ROOF PENETRATIONS AND MOUNTING METHODS PRIOR TO IMPLEMENTING THEM.
- PROVIDE AND INSTALL CLEAR LOCKABLE COVERS FOR ALL THERMOSTATS.
- TEST ALL INTERLOCKED CONTROLS. BALANCE THE ROOM TO BE POSITIVELY PRESSURIZED, AS NO MAKE UP AIR IS ALLOWED TO BE DRAWN FROM GARAGE.

DRAWING NOTES :

- INSTALL NEW WCH-1 WITH REMOTE THERMOSTATIC CONTROLS. SEE CONTROL NOTES FOR WIRING INFORMATION.
- PROVIDE NEW 24"x18" TYPE B FIRE DAMPER, MATCHING OUTSIDEWALL RATING. IF RATING CAN NOT BE DETERMINED, PROVIDE A 2H RATED TYPE B FIRE DAMPER.
- 6" Ø EXHAUST DUCT GOOSE NECK TERMINATION. SEE THE DETAIL 3/1/1-2 FOR ADDITIONAL INFORMATION. TERMINATE W/ 45° ELBOW. PROVIDE GALVANIZED STEEL WIRE MESH SCREEN ON THE END.
- PROVIDE A MOTORIZED BACK DRAFT DAMPER RUSKIN CD40 OR EQUAL MATCHING THE DUCT 24"x18" IN SIZE. SEE CONTROL NOTES FOR WIRING INFORMATION.
- INSTALL AN EF-1 W/ Ø100 AND EG-1 W/ ENOUGH DUCT TO HOUSE THE BACKDRAFT DAMPER UNOBSTRUCTED. SEE CONTROL NOTES FOR WIRING INFORMATION.
- PROVIDE INSULATED PANEL BEHIND LOUVER TO INFILL THE REMAINDER OF THE EXISTING WINDOW OPENING UNSEED BY NEW DUCT.

CONTROL NOTES :

- PROVIDE CONTROLS, RELAYS AND INTERLOCKS, AS NOTED IN DETAIL BELOW.
- ALL CONTROL AND LOW VOLTAGE WIRING SHALL BE ENCASED IN RIGID GALVANIZED STEEL CONDUIT WITH ALL RELAYS, TRANSFORMERS AND SENSORS MOUNTED IN LABELED JUNCTION BOXES AND PLCs SHALL BE INSTALLED IN A NEMA 3R ENCLOSURE.
- PROVIDE A CIRCUIT WIRED IN PARALLEL THAT ENERGIZES MAKE UP AIR FAN MF-1 WHEN EITHER OF THE GEAR DRYING CABINETS GDC-1s ARE ENERGIZED AS NOTED IN CONTROL DIAGRAM.
- 24V SOURCE FROM DRYING CABINETS SHALL BE TAPPED FROM CONTROL NODE FOR INTERNAL FAN CONTACT. REFER TO MANUFACTURERS WIRING DIAGRAM.

REVISIONS

ISSUE	DATE	REVISIONS
	09/09/21	ISSUED FOR BID



KYLE O'CONNOR, PROJECT MANAGER

SEALS



CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY
1400 JFK BOULEVARD
7TH FLOOR, CITY HALL
PHILADELPHIA, PENNSYLVANIA

ENGINE 72
DECONTAMINATION SUITE

ENLARGED PLANS,
SCHEDULES & DETAILS

PROJECT NO.	DRAWING NO.
13-21-4643-01	M1.2
DATE	09/09/21
SCALE	NOTED
DRAWN BY	WFW
CHECKED BY	WFW
BHA No.:	20-150

ALL DIMENSIONS AND CONDITIONS SHALL BE AS SHOWN ON THIS DRAWING UNLESS OTHERWISE NOTED ON THE WORK.

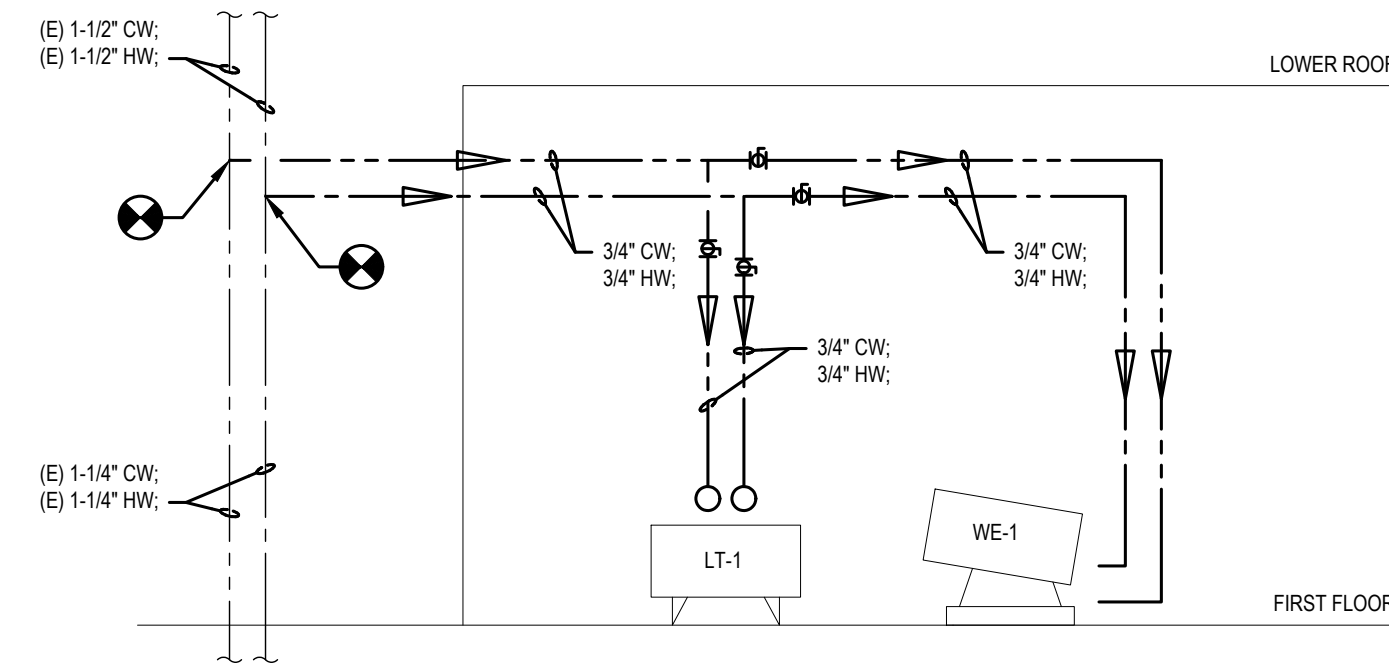
PLUMBING FIXTURE SCHEDULE												
No	FIXTURE	MANUFACTURER	MODEL #	TYPE	TRIM	DRAINAGE FIXTURE UNITS	CONNECTIONS				REMARKS	
							CW	HW	WASTE	TRAP		
LT-1	TWO COMPARTMENT LAUNDRY TRAY	REGENCY TABLES AND SINKS	600S2424B	16 GA TYPE 430 STAINLESS STEEL W/ BACKSPASH AND ROLLED EDGES, 3" CENTERED FAUCET, 48" L x 24" W x 13" D.	FAUCET: CHICAGO FAUCET 960-0263-3170W/AB, DRAIN KOHLER K-861, REGENCY 600T24213 24" DETACHABLE DRAIN BOARD; SHUT OFF BALL VALVES MOUNTED TIGHT TO CEILING	2	3/4"	3/4"	1-1/2"		FURNISHED AND INSTALLED BY P.C. INSTALL AGAINST THE WALL, DIRECT DRAINAGE TO FS-1 INSTALLED BELOW. MAINTAIN 1" AIR GAP. PROVIDE SHUT OFF VALVES TIGHT TO CEILING IN THE DECON 104 ROOM.	
FS-1	FLOOR SINK	ZURN INDUSTRIES	ZN1801-NL	CAST IRON ENAMEL COATED 18" DEEP FLOOR SINK W/ A GRATE AND A STEEL FRAME AND NEOLOCK OUTLET. PROVIDE CHARLOTTE SERVICE WEIGHT DEEP SEAL TRAP.	PROVIDE ALL LISTED OPTIONS AND A CHARLOTTE SERVICE WEIGHT DEEP SEAL TRAP OR EQUAL.	2				3"	3"	FURNISHED AND INSTALLED BY P.C. INSTALL UNDER LT-1 AND DIRECT LT-1, WE-1 AND BOTH GDC-1s DISCHARGES TO THIS FLOOR SINK.
RD-1	MAIN ROOF DRAIN	ZURN INDUSTRIES	ZC100-C	CAST IRON DOME PRIMARY ROOF DRAIN W/ UNDERDECK CLAMP & CAST IRON DOME.	PROVIDE ALL LISTED OPTIONS.					3"		FURNISHED AND INSTALLED BY P.C. PROVIDE ANY OTHER PRODUCT OPTION (SUFFIX) THAT IS REQUIRED FOR COMPLETE INSTALLATION.
WE-1	RIGID MOUNTED WASHER EXTRACTOR	MILNOR INC.	30022 VRJ	RIGID MOUNTED WASHER EXTRACTOR, 60L.B. CAPACITY, 208V / 3PH / 60HZ, 5 HP MOTOR.	PROVIDE ISOLATION BALL VALVES AND UNIONS FOR COLD AND HOT WATER SUPPLY. PROVIDE A 3" DWV COPPER DRAIN. PROVIDE WATER HAMMER ARRESTORS.		3/4"	3/4"	3"			FURNISHED AND INSTALLED BY P.C. MOUNT AND CONNECT AS DIRECTED BY MANUFACTURER. PROVIDE VIBRATIONAL ISOLATION MOUNTS AS REQUIRED BY MANUFACTURER. PROVIDE A 3" DWV COPPER DRAIN PIPE AND ROUTE AGAINST THE WALL AND TERMINATE AT FS-1 W/ A 1" AIR GAP. PROVIDE WVA.

PIPE INSULATION SCHEDULE					
SERVICE	MANUFACTURER	TYPE	VAPOR BARRIER	INSULATION THICKNESS	REMARKS
DOMESTIC COLD WATER	OWENS CORNING OR AEROFLEX	FIBERGLASS OR CLOSED CELL ELASTOMERIC	YES, FACTORY APPLIED OR INTEGRAL	1" : FOR PIPES 2" AND BELOW 1-1/2" : FOR PIPES 2-1/2" AND ABOVE	RUNOUTS NOT TO EXCEED 12" IN LENGTH. ASTM C534 5 PCF DENSITY FOR ELASTOMERIC. ASTM C547 4 PCF DENSITY FOR MINERAL FIBER.
DOMESTIC HOT WATER / HOT WATER RETURN	OWENS CORNING OR AEROFLEX	FIBERGLASS OR CLOSED CELL ELASTOMERIC	YES, FACTORY APPLIED OR INTEGRAL	1" : FOR PIPES 2" AND BELOW 1-1/2" : FOR PIPES 2-1/2" AND ABOVE	RUNOUTS NOT TO EXCEED 12" IN LENGTH. ASTM C534 5 PCF DENSITY FOR ELASTOMERIC. ASTM C547 4 PCF DENSITY FOR MINERAL FIBER.
STORM WATER	OWENS CORNING OR AEROFLEX	FIBERGLASS OR CLOSED CELL ELASTOMERIC	YES, FACTORY APPLIED OR INTEGRAL	1" : FOR PIPES 2" AND BELOW 1-1/2" : FOR PIPES 2-1/2" AND ABOVE	RUNOUTS NOT TO EXCEED 12" IN LENGTH. ASTM C534 5 PCF DENSITY FOR ELASTOMERIC. ASTM C547 4 PCF DENSITY FOR MINERAL FIBER.

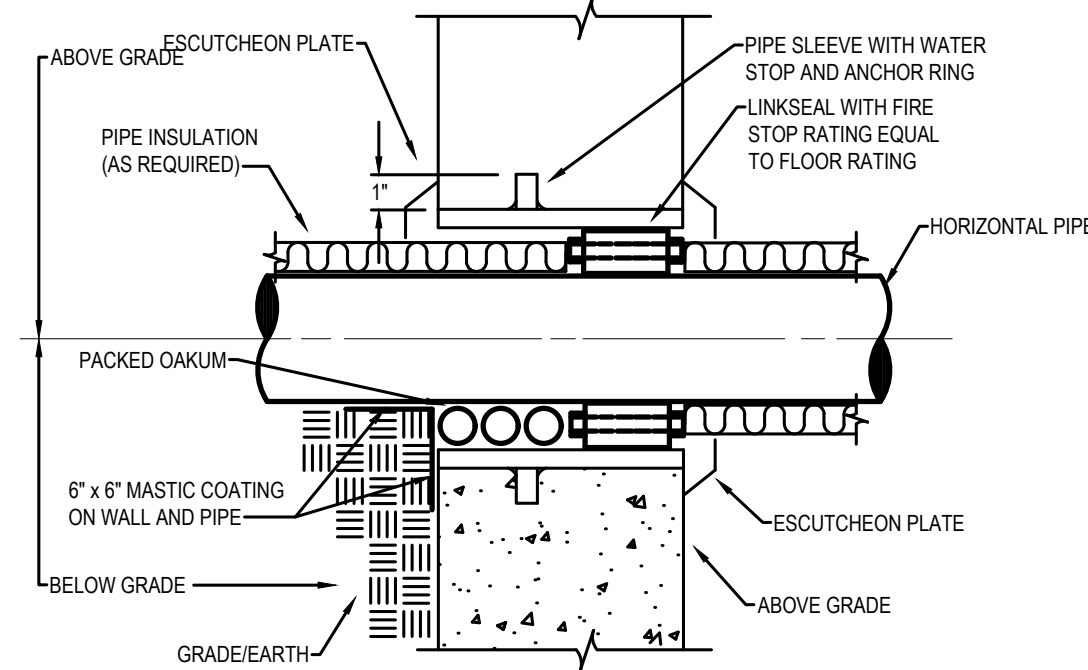
PLUMBING PIPE AND FITTING SCHEDULE							
SYSTEM	PIPE SIZE	LOCATION	MATERIAL	SCHEDULE AND/OR TYPE	FITTING	JOINT	REMARKS
SANITARY, STORM & WASTE	2" & LARGER	ABOVE GRADE/GROUND	CAST IRON	SERVICE WEIGHT	CAST IRON	NO-HUB	STAINLESS STEEL CLAMPS & NEOPRENE GASKETS
	1-1/2" & SMALLER	ABOVE GRADE/GROUND	COPPER	TYPE DWV	COPPER	SOLDERED	95% TIN & 5% ANTIMONY
SANITARY VENT & WASTE VENT	ALL	BELOW GRADE/GROUND	CAST IRON	SERVICE WEIGHT	CAST IRON	BELL AND SPIGOT	PUSH ON RUBBER GASKET JOINTS OR LEAD AND OAKUM
	2" & LARGER	ABOVE GRADE/GROUND	CAST IRON	SERVICE WEIGHT	CAST IRON	NO-HUB	STAINLESS STEEL CLAMPS & NEOPRENE GASKETS
COLD WATER	1-1/2" & SMALLER	ABOVE GRADE/GROUND	COPPER	TYPE DWV	COPPER	SOLDERED	95% TIN & 5% ANTIMONY
	ALL	BELOW GRADE/GROUND	CAST IRON	SERVICE WEIGHT	CAST IRON	BELL AND SPIGOT	PUSH ON RUBBER GASKET JOINTS OR LEAD AND OAKUM
HOT WATER / HOT WATER RETURN	ALL	ABOVE GRADE/GROUND	COPPER	TYPE L	COPPER	SOLDERED	95% TIN & 5% ANTIMONY
	ALL	BELOW GRADE/GROUND	COPPER	TYPE L	COPPER	SOLDERED	95% TIN & 5% ANTIMONY
NATURAL GAS PIPING	ALL	BELOW GRADE/GROUND					CONSULT PGW COMPANY FOR DETAILS
	ALL	ABOVE GRADE/GROUND, CONCEALED AND OR >7" W.C.	BLACK STEEL	SCHEDULE 40	FORGED, CLASS 2000 SOCKET WELD	SOCKET WELDED	IN CONCEALED SPACES, NO UNIONS ARE PERMITTED.
	ALL	ABOVE GRADE/GROUND AND BELOW 4" W.C.	BLACK STEEL	SCHEDULE 40	CAST IRON CLASS 125	THREADED	PROTECTIVE COATING PER IFGC 2009 403.8

WATER HAMMER SCHEDULE WA-1					
PPP SIZE	P.D.I. SYMBOL	MAX FIXTURE RATINGS	"A" SIZE	"B" SIZE	
1/2"	A	1-11	5"	1/2"	
3/4"	B	12-32	5"	3/4"	

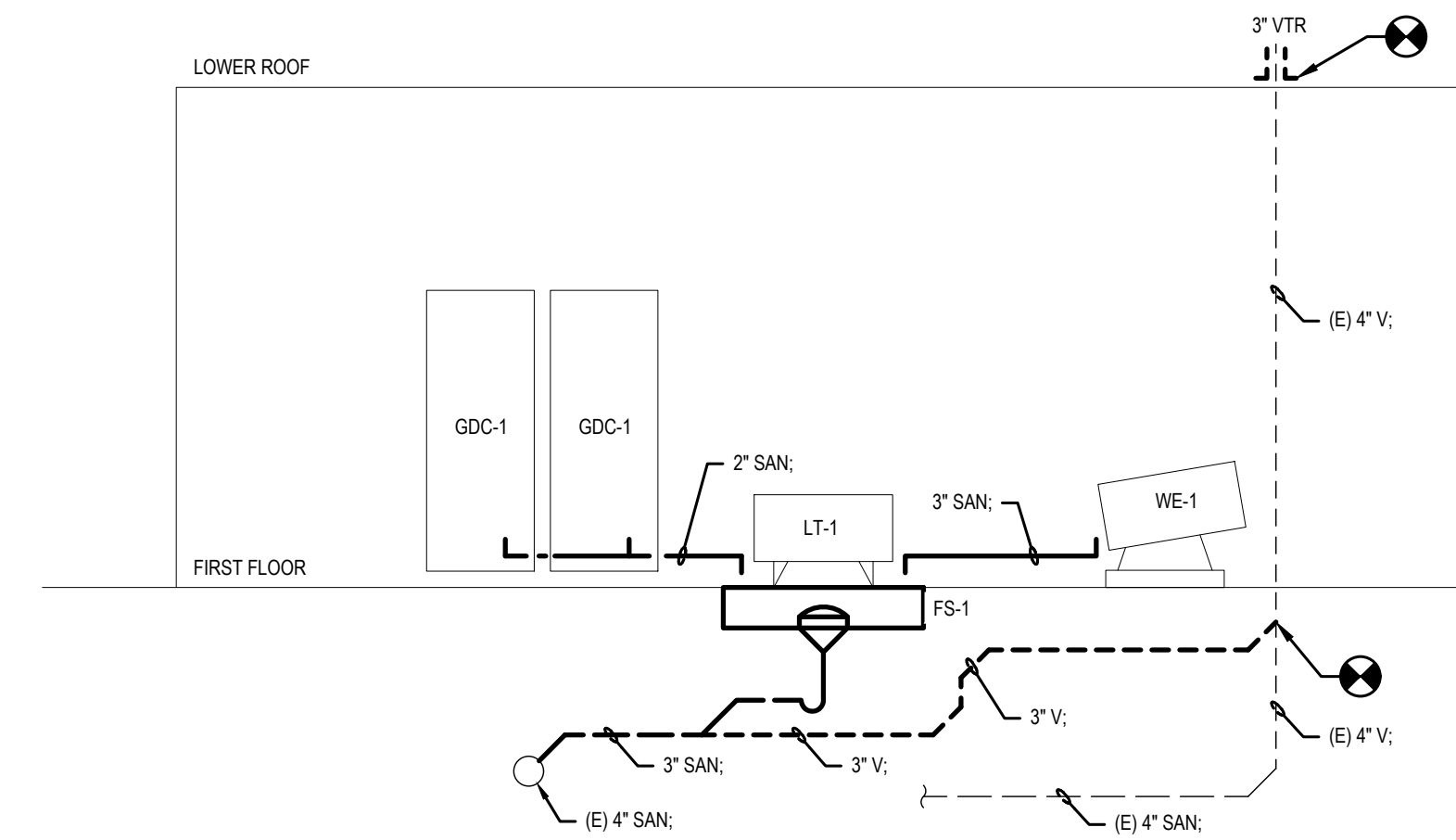
FIRE PROTECTION DESIGN DATA: DECON ROOM 104	
HAZARD CLASSIFICATION	: ORDINARY HAZARD GROUP II
SPRINKLER TAG	: SH-1
OPERATING AREA	: 1,500 SQ FT MINIMUM
DENSITY	: 0.2 MINIMUM GPM SQ FT
HOSE STREAM ALLOWANCE	: 250 GPM
SPRINKLER COVERAGE	: 130 SQ FT MAXIMUM
SPRINKLER TYPE	: UPRIGHT, W/ GUARDS
SPRINKLER RESPONSE TYPE	: QUICK RESPONSE HIGH TEMPERATURE
TEMPERATURE RATING	: PER NFPA 13
NOMINAL K-FACTOR	: 5.6
PIPING - WET SYSTEM	: SCHEDULE 40 BLACK STEEL, GROOVED, THREADED OR WELDED, CLASS 125 FITTINGS
HAZARD CLASSIFICATION	: ORDINARY HAZARD GROUP II
SPRINKLER TAG	: SH-2
OPERATING AREA	: 1,500 SQ FT MINIMUM
DENSITY	: 0.2 MINIMUM GPM SQ FT
HOSE STREAM ALLOWANCE	: 250 GPM
SPRINKLER COVERAGE	: 130 SQ FT MAXIMUM
SPRINKLER TYPE	: SIDEWALL, DRYTYPE, NITROGEN LOADED
SPRINKLER RESPONSE TYPE	: QUICK RESPONSE INTERMEDIATE TEMPERATURE
TEMPERATURE RATING	: PER NFPA 13
NOMINAL K-FACTOR	: 5.6
PIPING - WET SYSTEM	: SCHEDULE 40 BLACK STEEL, GROOVED, THREADED OR WELDED, CLASS 125 FITTINGS



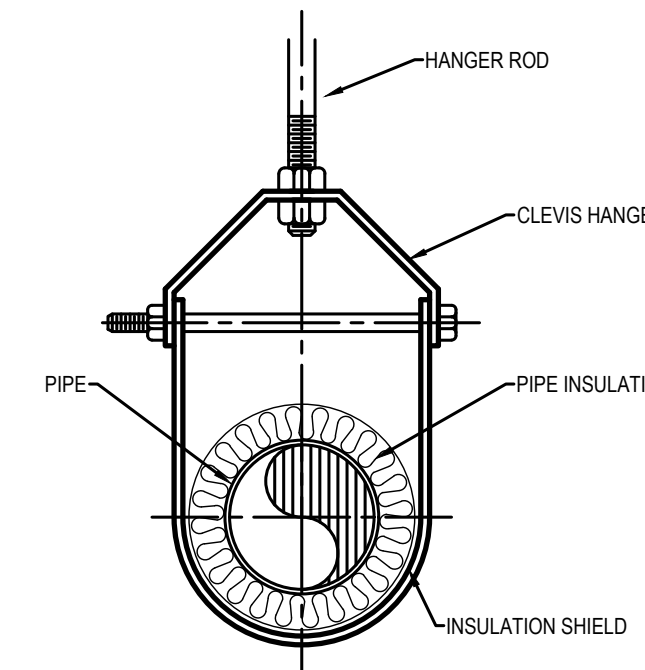
1
PS.1
PARTIAL RISER DIAGRAM
PLUMBING - DOMESTIC
SCALE : DIAGRAMMATIC



1
P2.0
FIRE STOPPING SLEEVE DETAIL
SCALE : NONE



2
PS.1
PARTIAL RISER DIAGRAM
PLUMBING - SANITARY
SCALE : DIAGRAMMATIC



2
P2.0
CLEVIS HANGER DETAIL
SCALE : NONE

REVISIONS		
ISSUE	DATE	REVISIONS
	09/09/21	ISSUED FOR BID

- NOTES :**
- REFER TO DRAWING MP-E1 FOR HVAC, PLUMBING/FIRE PROTECTION & ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS & DRAWING LIST.
 - WORK TO CONFORM TO PHILADELPHIA PLUMBING CODE 2018 EDITION, WITH ALL CURRENT AMENDMENTS AS WELL AS ALL EXCEPTIONS MANDATED BY OFFICE OF PHILADELPHIA PLUMBING INSPECTOR.



KYLE O'CONNOR, PROJECT MANAGER

SEALS

SCALE FOR CONSULTANT RECOGNITION



CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY
1400 JFK BOULEVARD
7TH FLOOR, CITY HALL
PHILADELPHIA, PENNSYLVANIA

PROJECT TITLE
**ENGINE 72
DECONTAMINATION SUITE**

DRAWING TITLE
**DETAILS, SCHEDULES
AND DIAGRAMS**

PROJECT NO.	DRAWING NO.
13-21-4643-01	P5.1
DATE	09/09/21
SCALE	NOTED
DRAWN BY	WFW
CHECKED BY	WFW
BHA No.:	20-150

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE SHOWN ON THIS DRAWING AND SHALL BE FOLLOWED UNLESS OTHERWISE NOTED ON THE WORK.

REVISIONS

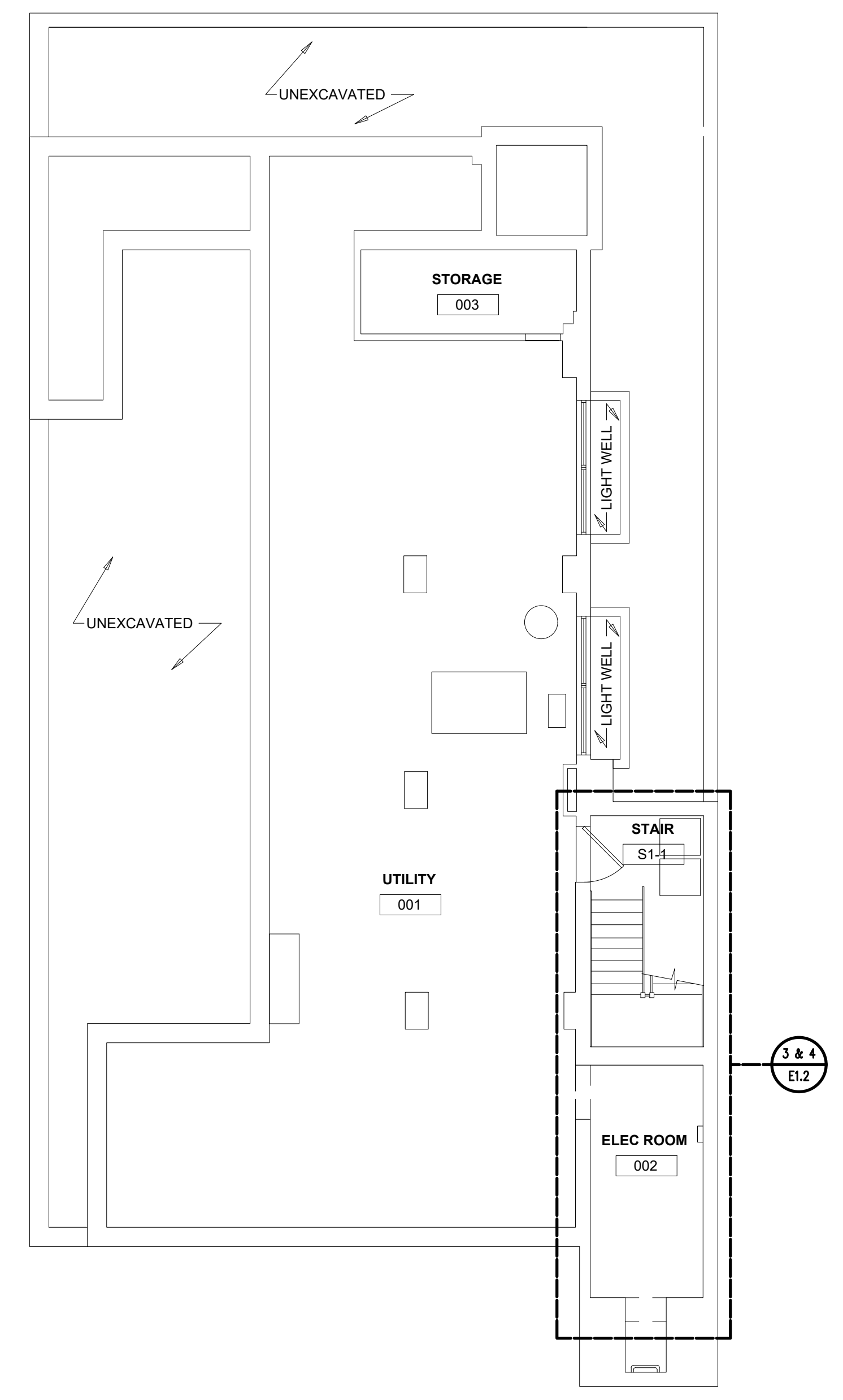
ISSUE	DATE	REVISIONS
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NOTES :

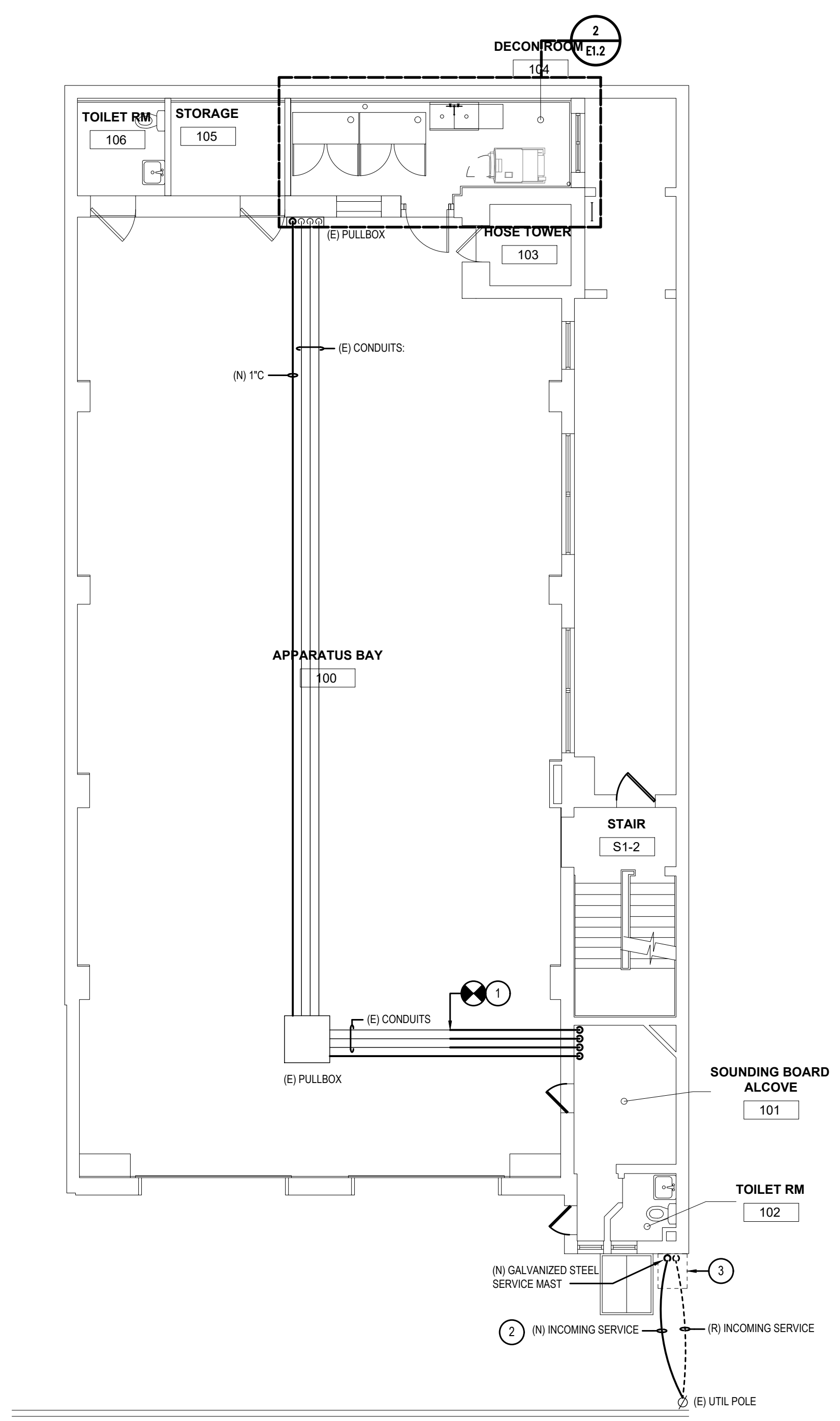
- 1- REFER TO DRAWING MPE-1 FOR HVAC, PLUMBING/FIRE PROTECTION & ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS & DRAWING LIST.

DRAWING NOTES :

- 1 EXTEND EXISTING CONDUIT PROVISIONS, AND CORE DOWN THROUGH FLOOR TO BASEMENT ELECTRICAL ROOM BELOW.
- 2 NEW INCOMING AERIAL SERVICE SHALL BE IN ACCORDANCE WITH PECC ILLUSTRATIONS 12.02 AND 12.03.
- 3 E.G. TO EXCAVATE FOR NEW SERVICE ENTRANCE AS REQUIRED, BACKFILL AND REPAIR SIDEWALK TO MATCH EXISTING. ENSURE GRADING SLOPES AWAY FROM BUILDING.



1
E1.1
BASEMENT FLOOR PLAN
ELECTRICAL NEW WORK
SCALE : 1/8" = 1'-0"



2
E1.1
FIRST FLOOR PLAN
ELECTRICAL NEW WORK
SCALE : 1/8" = 1'-0"



KYLE O'CONNOR, PROJECT MANAGER

SEALS

SPACE FOR CONSULTANT RECOGNITION



CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY
1400 JFK BOULEVARD
7TH FLOOR, CITY HALL
PHILADELPHIA, PENNSYLVANIA

PROJECT TITLE
**ENGINE 72
DECONTAMINATION SUITE**

DRAWING TITLE
FLOOR PLANS

PROJECT NO. 13-21-4643-01	DRAWING NO. E1.1
DATE 09/09/21	
SCALE NOTED	
DRAWN BY WFW	
CHECKED BY WFW	BHA No.: 20-150

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AS THEY ARE BEFORE PROCEEDING WITH THE WORK.

