



LAKE METROPARKS PENITENTIARY GLEN RESERVATION

KEVIN P. CLINTON WILDLIFE CENTER
PROPOSED QUARANTINE ROOM ADDITION
8668 KIRTLAND CHARDON RD., KIRTLAND, OH 44094



LOCATION MAP
SCALE: NONE



BUILDING CODE ANALYSIS OHIO BUILDING CODE 2024

USE GROUP: (OBC 302.1) B BUSINESS
TYPE OF CONSTRUCTION: VB (OBC Table 601)

ALLOWABLE BUILDING HEIGHT 40' 2 STORIES
ALLOWABLE AREA 9,000 S.F.
EXISTING HEIGHT 23'-0"
PROPOSED HEIGHT 23'-0"
EXISTING AREA, 1st FLOOR 3,992 S.F.
EXISTING AREA, 2nd FLOOR 550 S.F.
PROPOSED AREA, 1st FLOOR 707 S.F.

FIRE PROTECTION: (OBC 903)
AUTOMATIC SPRINKLER SYSTEM REQUIRED IF:
FIRE AREA EXCEEDS 12,000 S.F.
FIRE AREA LOCATED MORE THAN 3 STORIES ABOVE GRADE
OR COMBINED FIRE AREAS EXCEED 24,000 S.F.

NO AUTOMATIC SPRINKLER SYSTEM REQUIRED.

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General Notes

- CONTRACTOR TO PERFORM WORK IN ACCORDANCE WITH THE RESIDENTIAL CODE OF OHIO AND ALL APPROPRIATE LOCAL CODES WHETHER INDICATED ON DRAWINGS OR NOT.
- THE CONTRACTOR(S) SHALL HAVE THE RESPONSIBILITY TO BE FAMILIAR WITH THE ARCHITECTURAL WORK AS WELL AS THE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WORK. ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL AND ENGINEERING SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION BEFORE INSTALLATION OF THE WORK. DO NOT SCALE THE DRAWINGS. THE CONTRACTOR(S) SHALL VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO THE START OF CONSTRUCTION. DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION BEFORE COMMENCEMENT OF WORK.
- BIDDING CONTRACTORS SHALL VISIT THE SITE AND BECOME KNOWLEDGEABLE OF EXISTING CONDITIONS. CONTRACTOR SHALL NOTIFY THE OWNER OF ANY CONDITIONS REQUIRING MODIFICATION BEFORE PROCEEDING WITH WORK.
- THE SCALE SHOWN ON THE DRAWINGS ARE FOR FULL SIZE (24"x36") SHEETS.
- DIMENSIONS SHOWN ARE FROM FACE OF STUD TO FACE OF STUD ON INTERIOR WALLS. ALL NEW INTERIOR WALLS ARE 2X4 WOOD STUDS @ 16" O.C. ALL NEW EXTERIOR WALLS ARE 2x6 WOOD STUDS @ 16" O.C. MAX. EXTERIOR WALL DIMENSIONS INCLUDE EXTERIOR SHEATHING.
- FINISH GRADE AROUND THE STRUCTURE SHALL SLOPE AWAY FROM THE FOUNDATION FOR THE ENTIRE PERIMETER. CREATE SWALES AS NECESSARY FOR SITE DRAINAGE. IF CLAY OR OTHER IMPERMEABLE SOILS ARE ENCOUNTERED, FOUNDATION WATERPROOFING MAY NEED TO BE INCREASED.
- ALL ROOFS SHALL HAVE GUTTERS AND DOWNSPOUTS AS REQUIRED FOR PROPER DISCHARGE INTO STORM SEWERS OR ONTO SPLASHBLOCKS AS PERMITTED BY LOCAL CODES.
- HVAC AND ELECTRICAL WORK IS AN EXTENSION OF EXISTING SERVICES AND ALL NEW WORK MUST COMPLY WITH THE RESIDENTIAL CODE OF OHIO

No.	Revision/Issue	Date
	Issued For Bidding	5/1/24

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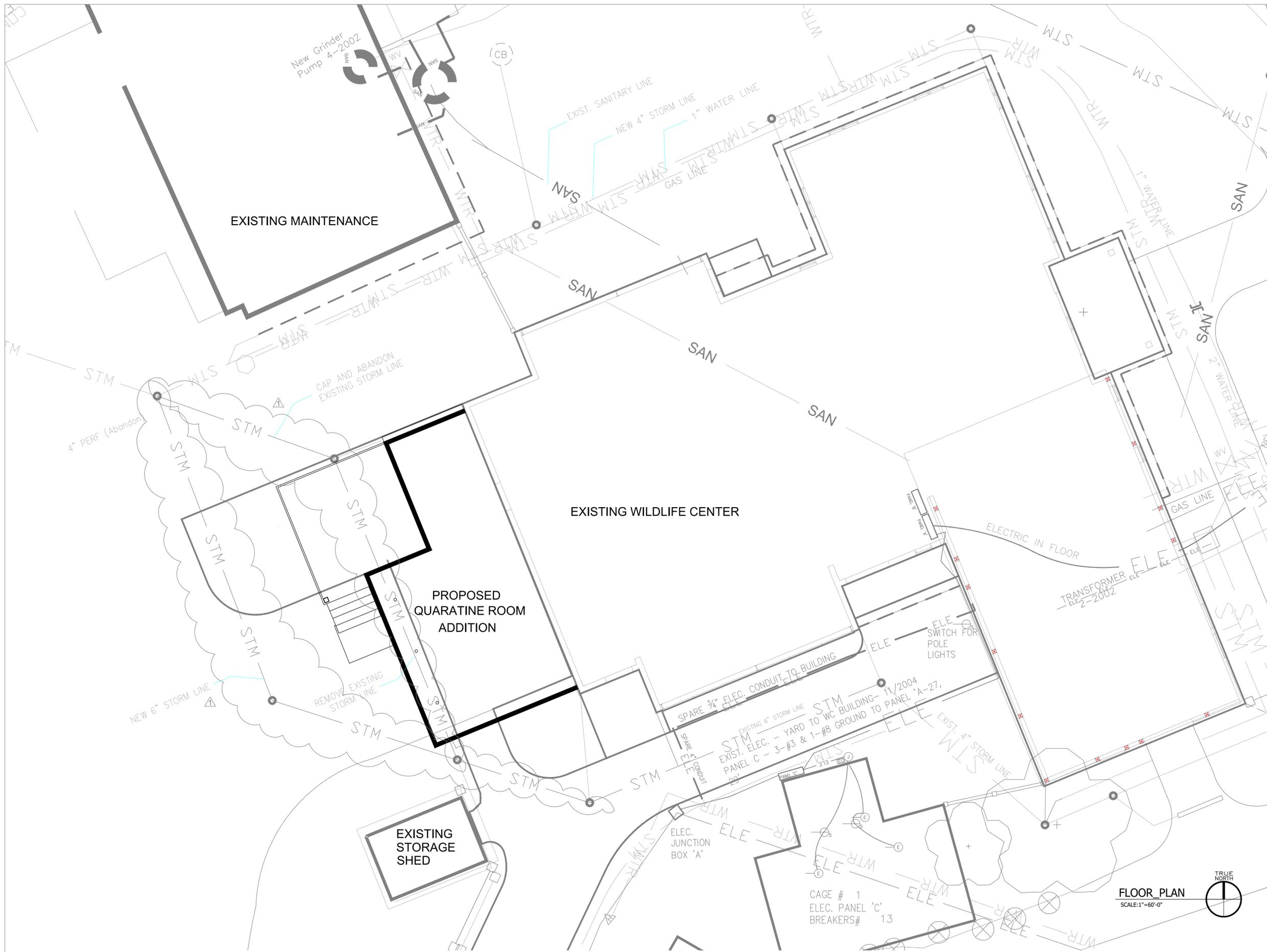
Project Name and Address

Proposed Quarantine Room:

Lake Metroparks
Penitentiary Glen Reservation
Kevin P. Clinton Wildlife Center

8668 Kirtland Chardon Rd. Kirtland, OH 44094

Project	Sheet
202303	G1
Date	
3/24	
Drawing Title	
Title Sheet	



General Notes

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1	Revision	7/8/24
2	Issued For Permits	5/22/24
3	Issued For Bidding	5/1/24

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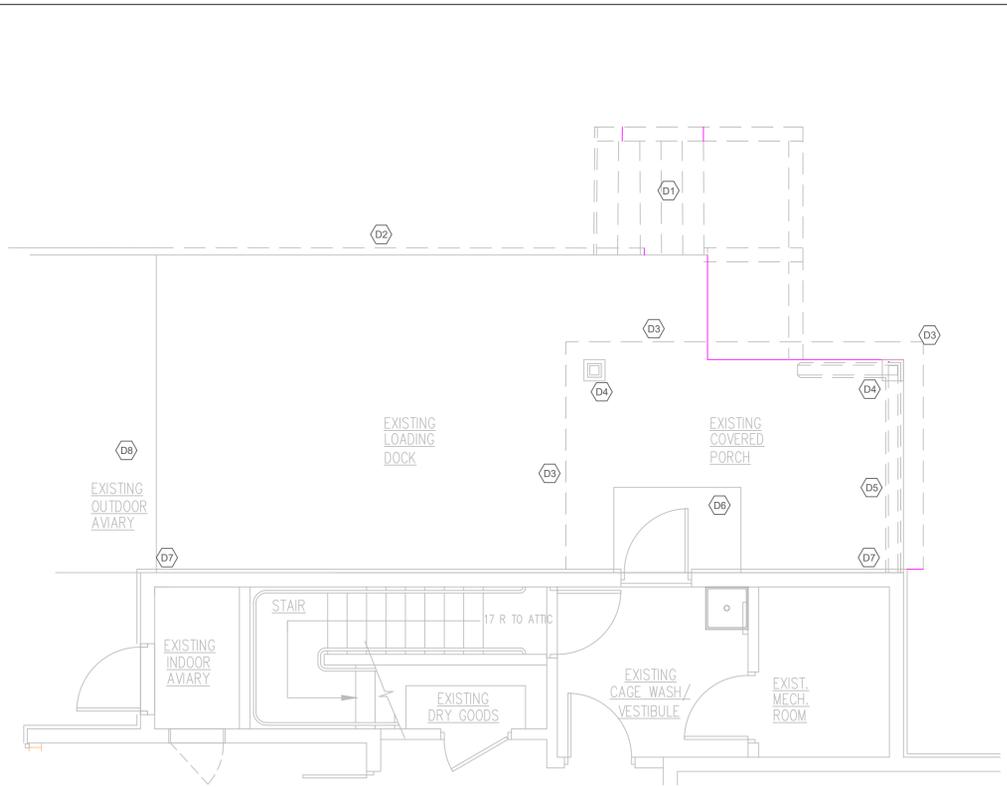
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Project 202303	Sheet
Date 2/24	C1
Drawing Title Site Plan	

FLOOR PLAN
 SCALE: 1"=60'-0"



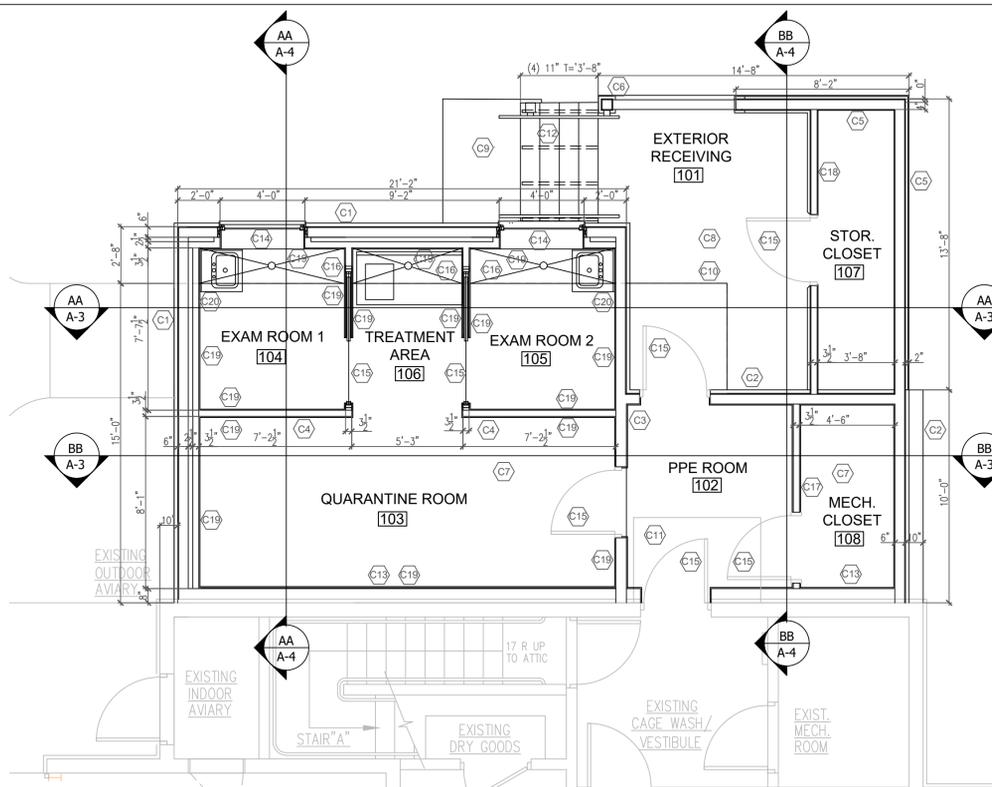
CAGE # 1
 ELEC. PANEL 'C'
 BREAKERS# 13



DEMOLITION-PLAN
SCALE: 1/4"=1'-0"
PLAN NORTH TRUE NORTH

CODED DEMO NOTES

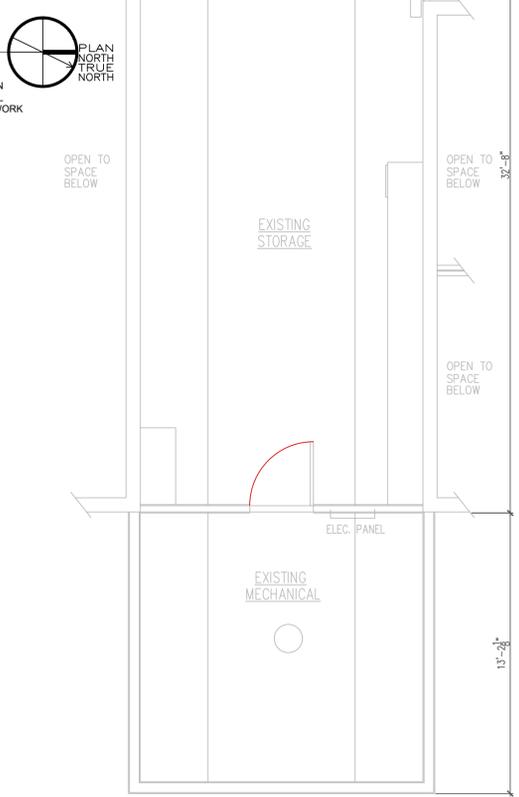
- (D1) REMOVE RAILROAD TIE STEPS AND BORDERS.
- (D2) REMOVE WOOD LOADING DOCK BUMPER.
- (D3) REMOVE PORCH ROOF FRAMING AND RELATED STRUCTURE.
- (D4) REMOVE POSTS AND RELATED PEDISTALS TO EXISTING CONCRETE SLAB.
- (D5) REMOVE WOOD FRAMED PARTITION.
- (D6) EXISTING FROST SLAB TO REMAIN.
- (D7) CHANNEL EXISTING STUCCO BACK TO WALL SHEATHING TO ACCOMMODATE FASTENING NEW WALL FRAMING TO EXISTING.
- (D8) REMOVE PORTION OF EXISTING OUTDOOR AVIARY TO ACCOMMODATE NEW CONSTRUCTION AND RE-INSTALL UPON COMPLETION.
- (D9) ALL DEBRIS, RUBBISH AND OTHER MATERIAL RESULTING FROM DEMOLITION AND NEW CONSTRUCTION SHALL BE TRANSPORTED AND LEGALLY DISPOSED OF OFF-SITE. IF SUSPECTED HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION, NOTIFY ARCHITECT, THEN COMPLY WITH APPLICABLE REGULATIONS, LAWS AND ORDINANCES CONCERNING REMOVAL, HANDLING AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION. COORDINATE VEHICLE ACCESS TO SITE WITH OWNER.



PROPOSED FLOOR PLAN
SCALE: 1/4"=1'-0"
PLAN NORTH TRUE NORTH

PARTIAL EXISTING SECOND FLOOR PLAN

SCALE: 1/4"=1'-0"
NOTE: PARTIAL EXISTING SECOND FLOOR PLAN TO SHOW LOCATION OF EXISTING MECHANICAL ROOM. INTENT IS TO EXTEND EXISTING DUCTWORK TO CONDITION PROPOSED PPE ROOM #102. SEE SHEET M-1.



CODED NOTES

- (C1) EXTERIOR WALL 1: VINYL VERTICAL BOARD AND BATTEN SIDING ON 1" RIGID FOAM BOARD INSULATION SHEATHING (R-5) ON 1/2" OSB SHEATHING ON 2x6 WOOD STUDS @ 16" O.C. MAX. W/ R-19 BATT INSULATION, 4" PIPE SPACE, 2x4 WOOD STUDS @ 16" O.C. AND 5/8" MOISTURE RESISTANT GYP. BOARD INTERIOR FINISH. SEE WALL SECTIONS FOR ANCHORING OF WALL BASE PLATE.
- (C2) EXTERIOR WALL 2: VINYL VERTICAL BOARD AND BATTEN SIDING ON 1" RIGID FOAM BOARD INSULATION SHEATHING ON 1/2" OSB SHEATHING ON 2x6 WOOD STUDS @ 16" O.C. MAX. W/ R-19 BATT INSULATION 5/8" MOISTURE RESISTANT GYP. BOARD INTERIOR FINISH. SEE WALL SECTIONS FOR ANCHORING OF WALL BASE PLATE.
- (C3) 2x6 WOOD STUD PARTITION W/ ONE LAYER OF 5/8" MOISTURE RESISTANT GYP. DRYWALL ON EACH FACE. LEVEL PPT BASE PLATE TO ADJUST FOR SLOPING SLAB.
- (C4) 2x4 WOOD STUD PARTITION W/ ONE LAYER OF 5/8" MOISTURE RESISTANT GYP. DRYWALL ON EACH FACE. LEVEL PPT BASE PLATE TO ADJUST FOR SLOPING SLAB.
- (C5) 2x6 WOOD STUDS @ 16" O.C. MAX. W/ VINYL VERTICAL BOARD AND BATTEN SIDING ON 1" RIGID FOAM INSULATION SHEATHING ON 1/2" OSB SHEATHING ON EXTERIOR FACE AND 3/8" T1-11 COMPOSITE BOARD ON INTERIOR FACE. ANCHOR STUD WALL TO CONCRETE SLAB. LEVEL PPT BASE PLATE TO ADJUST FOR SLOPING SLAB.
- (C6) 6x6 WOOD POST W/ 1x CELLULAR PVC TRM WRAP. SEE ELEVATIONS.
- (C7) EXISTING CONCRETE SLAB. PREP SURFACE TO RECEIVE EPOXY FLOOR SURFACE.
- (C8) 5" AIR ENTRAINED CONCRETE SLAB W/ 6x6 W1.4W1.4 WWF ON 10 MIL VAPOR BARRIER ON 4" MIN. GRANULAR FILL. SLOPE SURFACE TO DRAIN WATER AWAY FROM CORNER.
- (C9) CONCRETE FROST SLAB. SEE STRUCTURAL.
- (E-19) LINE OF EDGE OF EXISTING LOADING DOCK.
- (E-11) EXISTING FROST SLAB.
- (E-12) WOOD STAIRS. SEE STRUCTURAL.
- (E-13) 2x6 WOOD STUD PARTITION WITH ONE LAYER OF 5/8" MOISTURE RESISTANT GYP. DRYWALL ON ONE LAYER OF 1/2" OSB SHEATHING ON EXPOSED FACE.
- (E-14) VINYL FIXED INSULATED GLASS WINDOW.
- (E-15) SEE DOOR SCHEDULE ON A-6.
- (E-16) 5" CONCRETE SLAB W/ 6x6 W1.4W1.4 WWF ON 10 MIL VAPOR BARRIER ON 4" MIN. GRANULAR FILL. SLOPE SURFACE TO FLOOR DRAIN.
- (E-17) SAME AS C3 EXCEPT 2x4 WOOD STUDS.
- (E-18) 2x4 WOOD STUDS WITH 3/8" T1-11 COMPOSITE SIDING ON EACH FACE.
- (E-19) 3'-4" FRP FRP WANSKOT W/ PVC COMPOSITE CAP TRIM. FULL HEIGHT FRP IN EXAM ROOMS 1&2.
- (E-20) PROVIDE BLOCKING IN STUD WALL TO SUPPORT WALL MOUNTED RETRACTABLE HOSE REEL. COORDINATE LOCATION WITH PLUMBING SUB CONTRACTOR.

BASIS OF DESIGN

THE FOLLOWING IS INTENDED TO BE A LIST OF "BASIS OF DESIGN" MATERIALS AND EQUIPMENT AND NOT A PROPRIETARY SPECIFICATION. SUBSTITUTE OR "OR EQUAL" ITEM OF MATERIAL OR EQUIPMENT MAY BE INCLUDED IN THE BID OR FURNISHED BY THE CONTRACTOR IF ACCEPTABLE TO THE ARCHITECT. CONTRACTOR SHALL SUBMIT SUFFICIENT INFORMATION TO THE ARCHITECT TO ALLOW A DETERMINATION THAT ITEM OF MATERIAL OR EQUIPMENT PROPOSED IS ESSENTIALLY EQUIVALENT TO THAT NAMED AS "BASIS OF DESIGN".

SIMULATED WOOD TRIM: PAINTABLE CELLULAR PVC 1" THICK WOOD GRAIN TRIM BOARD, PLY GEM "BUILD READY" TRIM.

COMPOSITE SIDING: GROOVED PANEL SIDING, "SMARTSIDE" AS MANUFACTURED BY LOUISIANA PACIFIC.

VINYL SIDING: VINYL VERTICAL BOARD AND BATTEN SIDING. MIN. THICKNESS .048" 9/16" PROFILE WITH 5" BOARD AND 1-1/2" BATTEN AND RELATED ACCESSORY TRIM. MANUFACTURED BY PLY GEM.

VINYL SOFFIT: MIN. THICKNESS .042" DOUBLE 5" VENTED PANELS W/ RELATED ACCESSORY TRIM. MANUFACTURED BY PLY GEM.

BUILDING INSULATION: UNFACED MINERAL FIBER BATT INSULATION AND KRAFT FACED MINERAL FIBER BATT INSULATION AS MANUFACTURED BY OWENS CORNING.

INSULATION SHEATHING: EXTRUDED POLYSTYRENE (XPS) RIGID FOAM BOARD SHEATHING R-5, OWENS CORNING FOAMULAR 150.

ASPHALT SHINGLES: ARCHITECTURAL SHINGLE, CLASS A, TIMBERLINE NATURAL SHADOW LIFETIME (MATCHING EXISTING COLOR), TIGERPAW ROOF DECK PROTECTION UNDERLAYMENT, STORM GUARD FILM SURFACED LEAK BARRIER AND COBRA SHINGLE OVER RIDGE VENTS AS MANUFACTURED BY GAF.

FLASHING AND SHEET METAL: GUTTERS-6" 24GA PRE-FINISHED STEEL (MATCH EXISTING PROFILE), DOWNSPOUTS- 3"x4" 20GA PRE-FINISHED STEEL WITH STANDARD ELBOWS AND STRAPS. PROVIDE MANUFACTURERS STANDARD, 1.0 MIL DRY FILM THICKNESS, BAKED-ON ACRYLIC SHOP FINISH ON GUTTERS, DOWNSPOUTS AND SIMILAR EXPOSED ITEMS. PROVIDE 3'x12'x20" MIN. REINFORCED PRECAST CONCRETE SPLASH BLOCKS WHERE DOWNSPOUTS ONTO NON-CONCRETE SURFACES.

DOORS AND FRAMES - HOLLOW METAL: DOORS - FULL FLUSH 1-3/4" 14GA STEEL ZINC COATED AND BONDZERIZED SURFACE SHEETS. DOORS SHALL HAVE 20GA STEEL CHANNEL STIFFENERS AND 14GA STEEL CHANNEL EDGES WELDED TO THE VERTICAL STIFFENERS. FRAMES - 16GA ZINC-COATED, BONDZERIZED AND WELDED IN PROFILES SHOWN ON DRAWINGS. DOORS AND FRAMES SHALL BE MANUFACTURED BY CURRIES, ASSA ABLOY.

POCKET DOORS AND FRAMES: DOORS - PLASTIPRO SMOOTH SERIES FIBERGLASS 3'x7' DOOR FRAME - JOHNSON HARDWARE 1500HD SERIES POCKET DOOR FRAME.

FINISH HARDWARE: SEE HARDWARE SCHEDULE ON SHEET A-6.

GYPSUM DRYWALL: USG SHEETROCK BRAND 5/8" TYPE X GLASS-MAT PANELS WITH MOISTURE AND MOLD RESISTANCE ON WALLS AND CEILING.

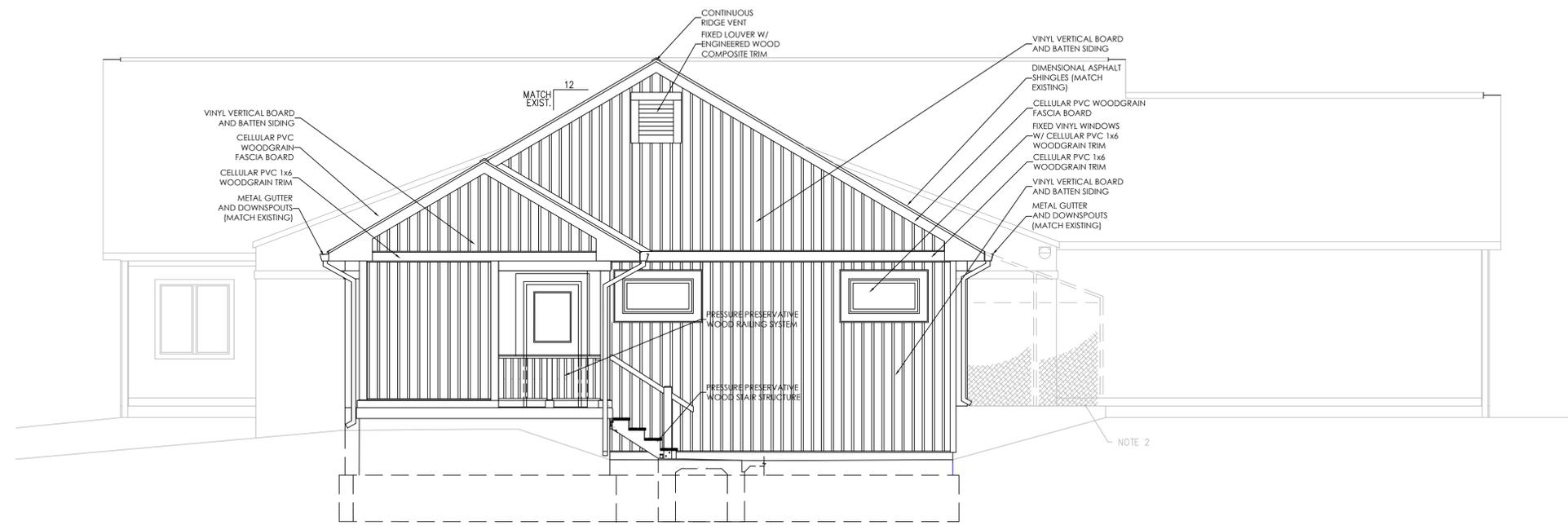
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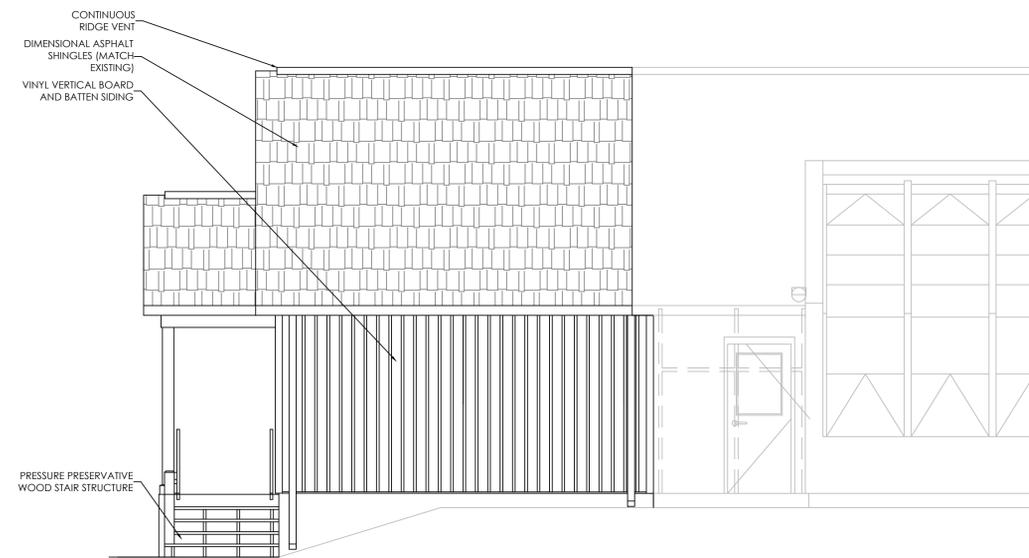
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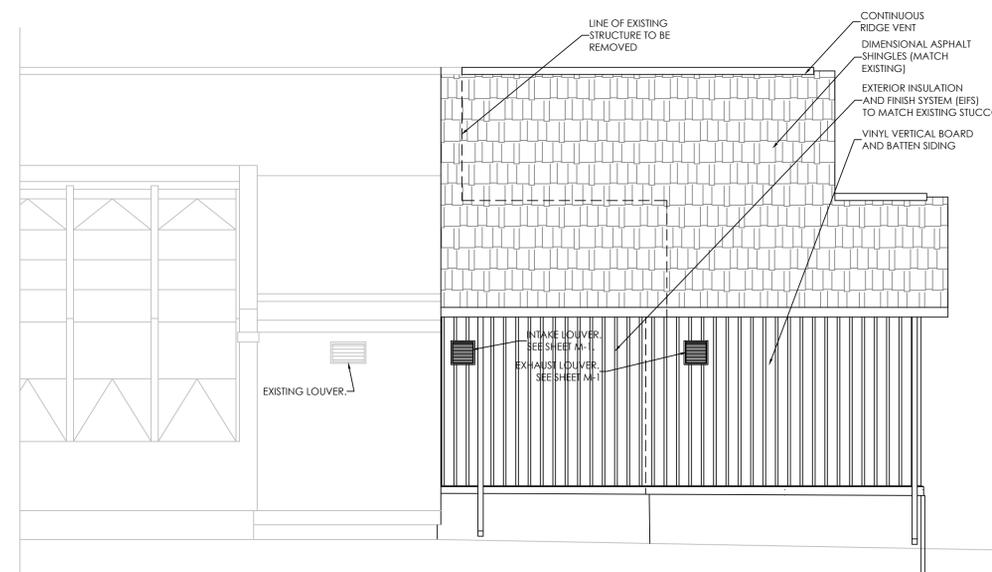
Project 202303	Sheet
Date 2/24	A1
Scale Plan	



3 WEST ELEVATION
Scale: 1/4" = 1'-0"



2 SOUTH ELEVATION
Scale: 1/4" = 1'-0"



1 NORTH ELEVATION
Scale: 1/4" = 1'-0"

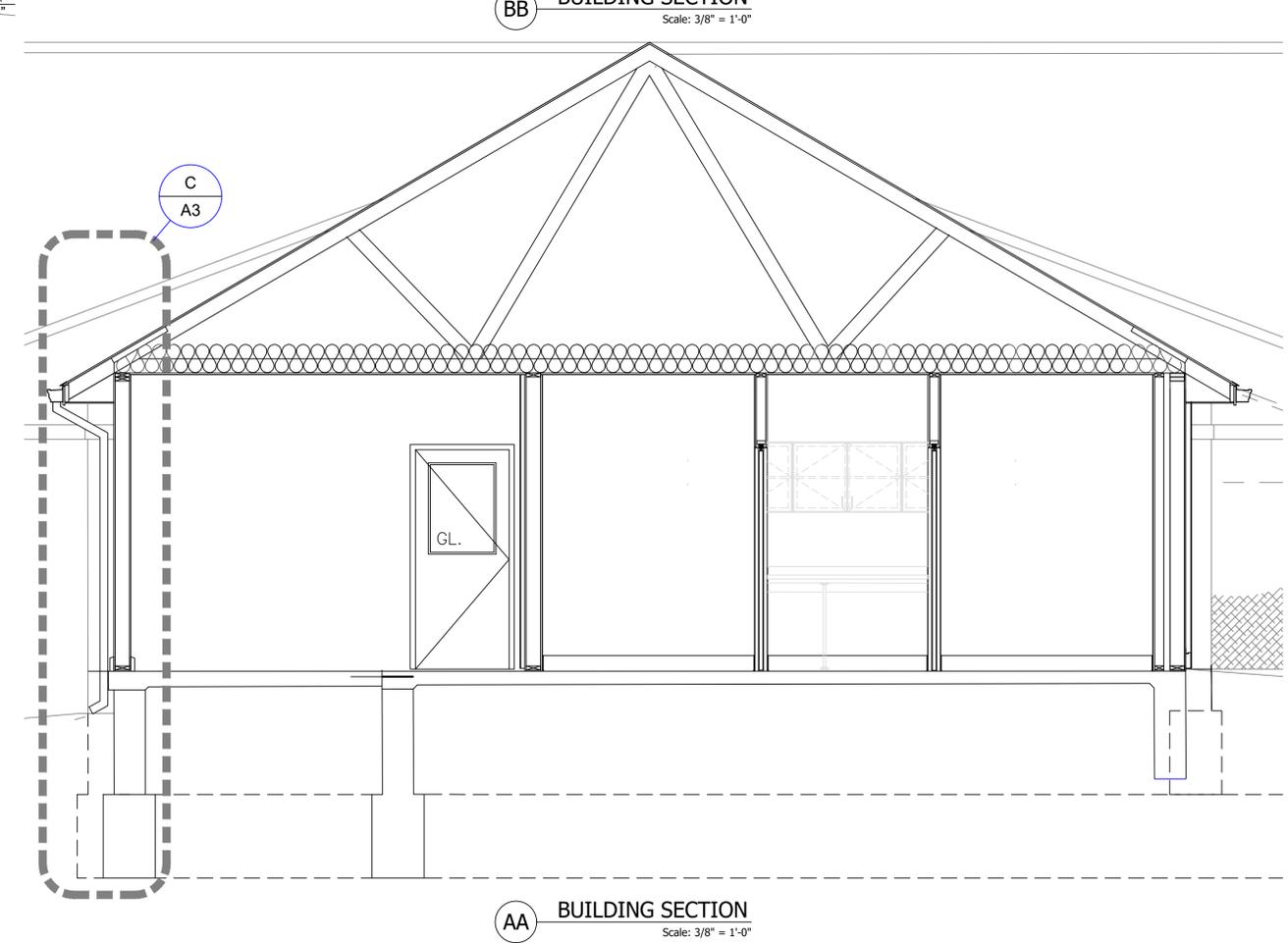
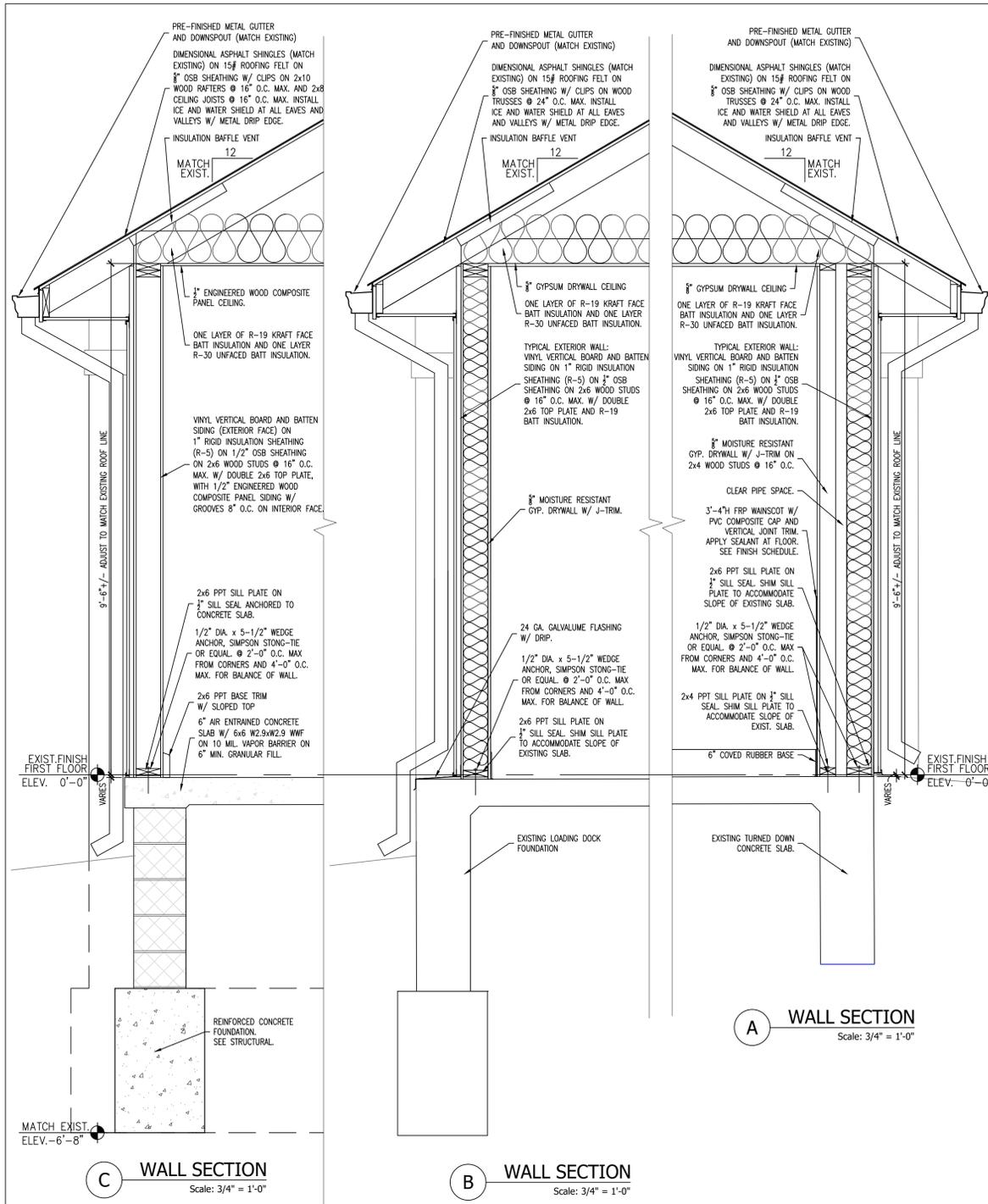
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Project 202303	Sheet
Date 3/24	A2
Scale Elevations	



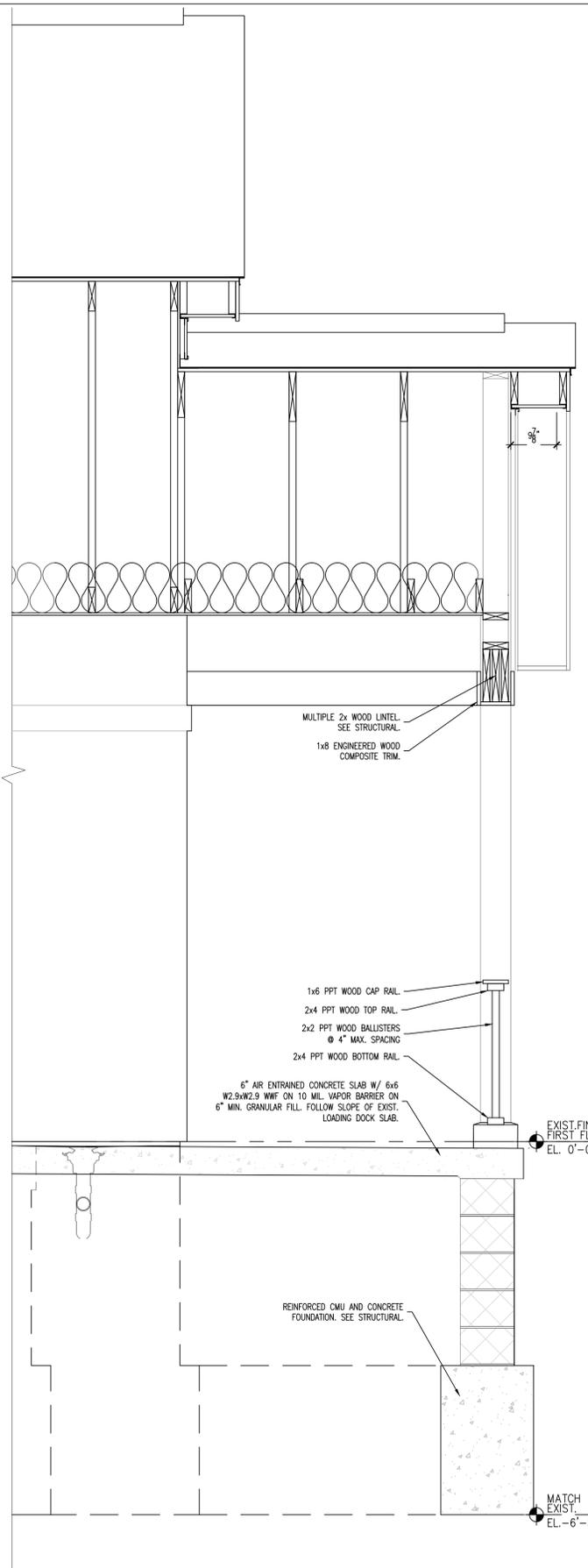
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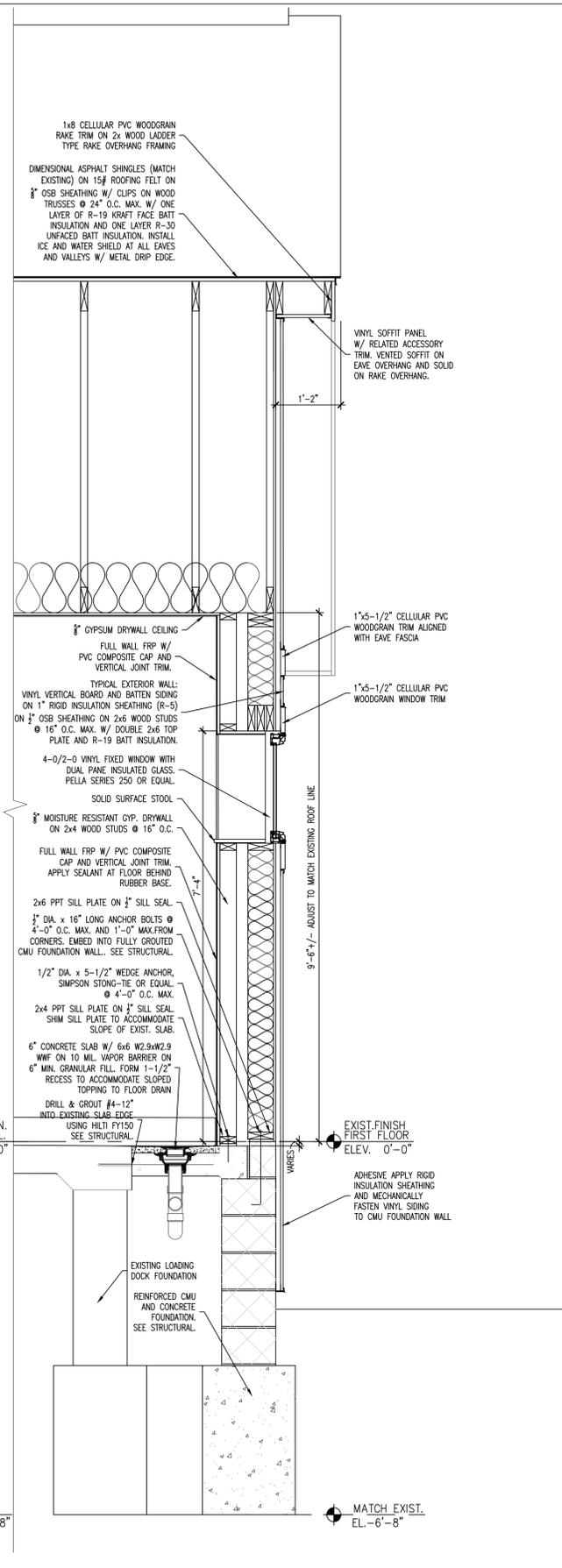
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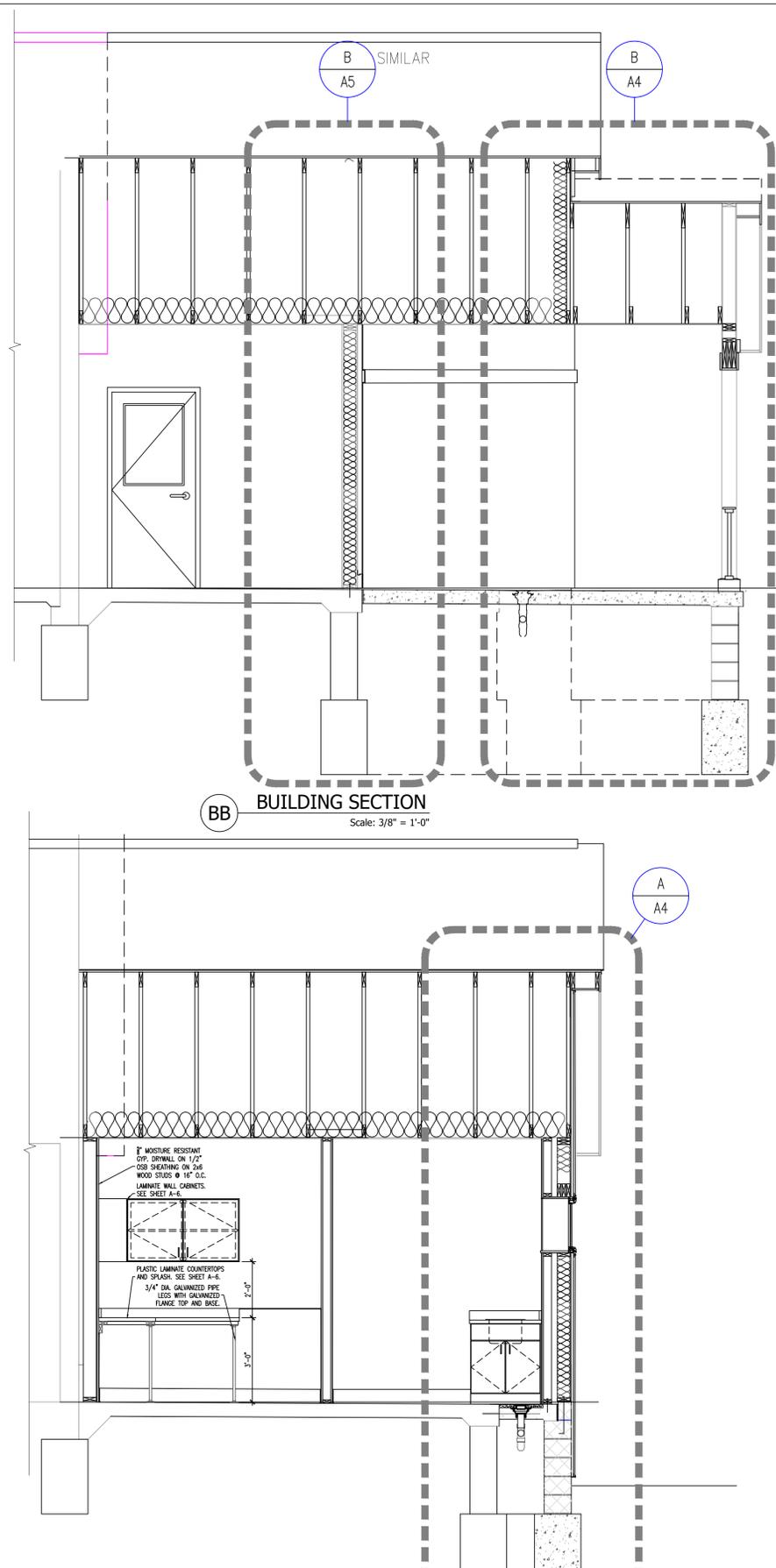
Project	Sheet
202303	
Date	
3/24	
Scale	
Building Sections	A3



B WALL SECTION
Scale: 3/4" = 1'-0"



A WALL SECTION
Scale: 3/4" = 1'-0"



AA BUILDING SECTION
Scale: 3/8" = 1'-0"

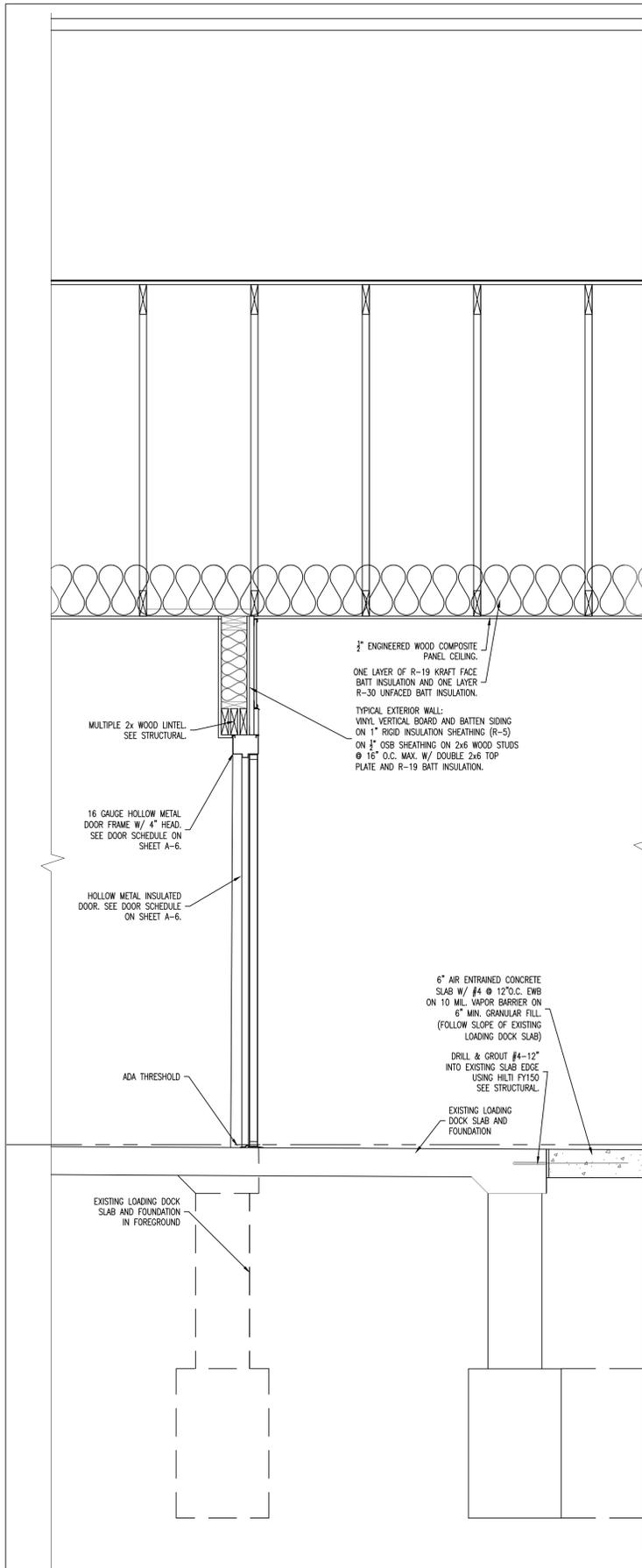
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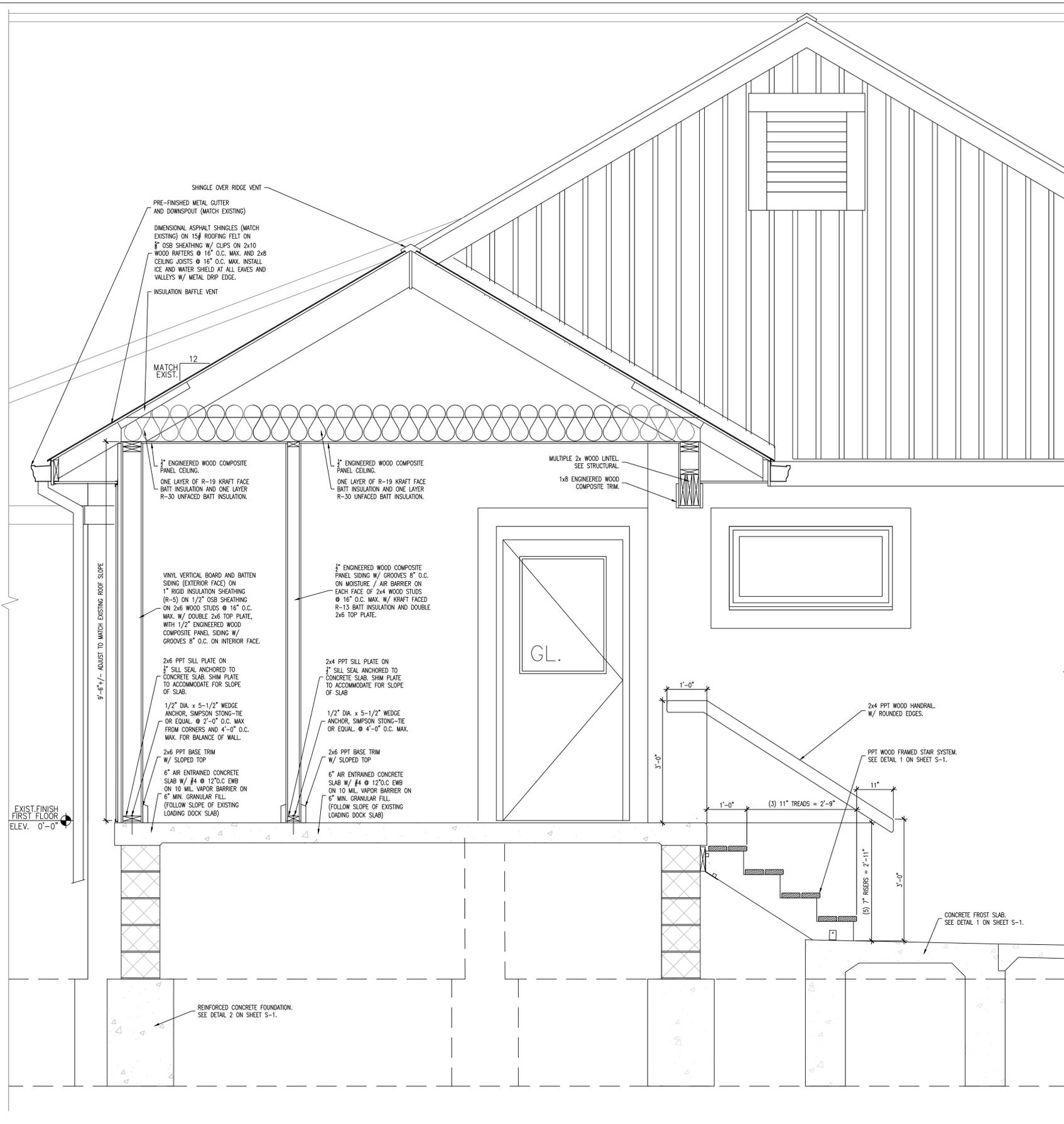
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Project	Sheet
202303	
Date	
3/24	
Scale	
Building Sections	A4



A WALL SECTION
Scale: 3/4"=1'-0"



A WALL SECTION
Scale: 3/4"=1'-0"

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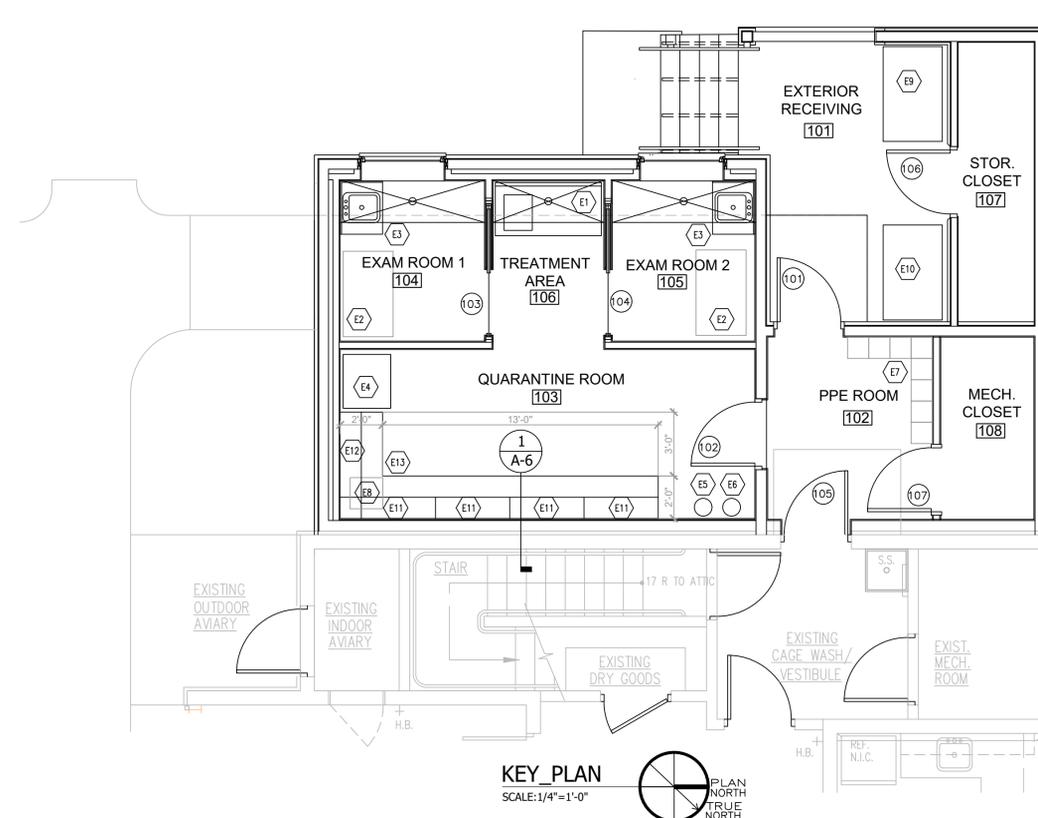
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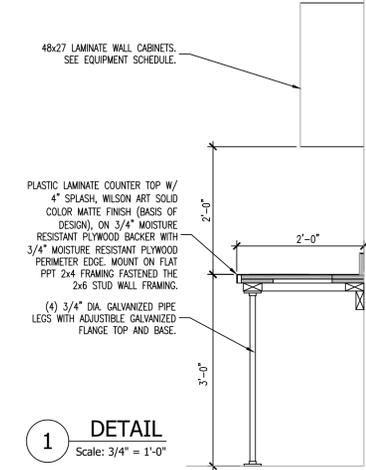
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Project 202303	Sheet
Date 3/24	A5
Scale Wall Sections	



EQUIPMENT SCHEDULE		
E1	16 GA. STAINLESS STEEL TABLE W/ SINK	REGENCY 60ST3060L
E2	ANIMAL ISOLATION CAGES BY OWNER	
E3	30" SINK BASE CABINET W/ SINK	KRAFTMAID SB30 BUTT.W
E4	STACKABLE WASHER / DRYER BY OWNER	
E5	O2 TANK BY OWNER	
E6	CO2 TANK BY OWNER	
E7	WARDROBE LOCKERS BY OWNER	
E8	MINI REFRIGERATOR BY OWNER	
E9	EXISTING 2022 FREEZER	
E10	EXISTING 2018 FREEZER	
E11	WALL DOUBLE DOOR CABINET	KRAFTMAID W4227
E12	WALL DOUBLE DOOR CABINET	KRAFTMAID W4827
E13	PLASTIC LAMINATE COUNTERTOP & SPLASH: W/ GALVANIZED STEEL PIPE LEGS	

CABINETS TO BE KRAFTMAID R-MAXTON THERMOFOIL ON MDF SUBSTRATE WITH SQUARE EDGE FULL OVERLAY SLAB STYLE SQUARE EDGE PANELS. DOVE WHITE HIGH GLOSS FINISH. HARDWARE: SLOAN COLLECTION, DOORS: PULL4026BN. (BASIS OF DESIGN)
PLASTIC LAMINATE COUNTERTOP & SPLASH: WILSON ART, SOLID COLOR, MATTE FINISH (BASIS OF DESIGN)



ROOM FINISH SCHEDULE									
ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS: MATERIAL / FINISH				CEILING	REMARKS
				NORTH	EAST	SOUTH	WEST		
101	EXTERIOR RECEIVING	CONC	-	COMP G/PNT	COMP G/PNT	VVBB	VVBB	COMP G/PNT	
102	PPE ROOM	EX CONC	RB	MRGBD/PNT	MRGBD/PNT	MRGBD/PNT	MRGBD/PNT	MRGBD/PNT	
103	QUARANTINE ROOM	EX CONC	RB	MRGBD/PNT	MRGBD/PNT	MRGBD/PNT	MRGBD/PNT	MRGBD/PNT	3'-4" FRP WAINSCOT
104	EXAM ROOM 1	EX CONC/CONC	RB	MRGBD/FRP	MRGBD/FRP	MRGBD/FRP	MRGBD/FRP	MRGBD/PNT	FRP FULL HEIGHT
105	EXAM ROOM 2	EX CONC/CONC	RB	MRGBD/FRP	MRGBD/FRP	MRGBD/FRP	MRGBD/FRP	MRGBD/PNT	FRP FULL HEIGHT
106	TREATMENT AREA	EX CONC/CONC	RB	MRGBD/PNT	MRGBD/PNT	MRGBD/PNT	MRGBD/PNT	MRGBD/PNT	3'-4" FRP WAINSCOT
107	MECHANICAL CLOSET	CONC	PPT	COMP G/PNT	COMP G/PNT	COMP G/PNT	COMP G/PNT	COMP G/PNT	

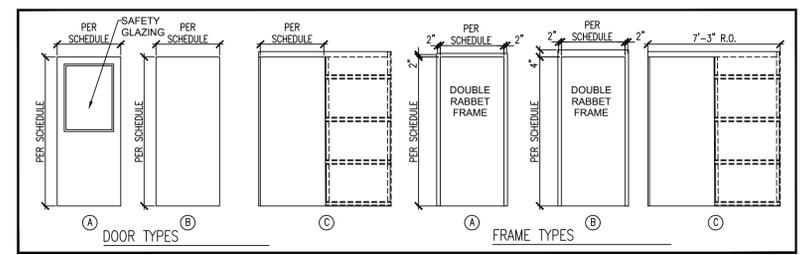
ABBREVIATIONS:
 COMP G COMPOSITE TEXTURED GROOVED SIDING
 RB 6" COVERED RUBBER BASE
 GBD GYPSUM BOARD DRYWALL
 FRP FIBERGLASS REINFORCED PANEL
 VVBB VINYL VERTICAL BOARD & BATTEN SIDING
 MRGBD MOISTURE RESISTANT GYP. BD. DRYWALL
 PNT PAINT
 CONC NEW CONCRETE
 EX CONC EXISTING CONCRETE
 SL SEALED
 PPT 2x6 PRESSURE PRESERVATIVE TREATED WOOD

Hardware Schedule					
Heading #1					
1 Single Door #101	EXTERIOR RECEIVING 101 from PPE ROOM 102				105" RHR
Opening Description: 3' 0" x 7' 0" x 1-3/4" x HM Type A x HMF Type B					
3 Hinges	MPB99 4 1/2 X 4 1/2 NRP	32D			MC
1 Mortise Lockset-Entrance	LC 9243 LNL	32D	LHR	32D	SA
1 Cylinder Core	33600006 (N) (26) DBK KEYWAY (S) (N) (N) (**4KS)	26			EINV
1 SFIC Core Housing	33-076021	26			ME
1 Closer x Hold-Open	351 CPSH		EN		SA
1 Protection Plate	K1050 10" x 34" CSK			US32D	RO
1 Weatherstrip	2891 APK 1 x 36" 2 x 84"				PE
1 Sweep	203 NA 36"				NA
1 Threshold	2715 AK 36"				PE
4 Key Blank	KYB386900 DBK KEYWAY 99 C7FK N X4 (**4KS)				EINV
Heading #2					
1 Single Door #102	PPE ROOM 102 to QUARANTINE ROOM 103				105" LH
Opening Description: 3' 0" x 7' 0" x 1-3/4" x HM Type A x HMF Type HMF A					
3 Hinges	MPB79 4 1/2 X 4 1/2	26D			MC
1 Mortise Lockset-Passage	8215 LNL		LH	26D	SA
1 Closer x Hold-Open	351 CPSH		EN		SA
1 Protection Plate	K1050 10" x 34" CSK			US32D	RO
Heading #3					
1 Single Door #106	EXTERIOR RECEIVING 101 from STOR. CLOSET 107				105" RHR
1 Single Door #107	PPE ROOM 102 from MECH. CLOSET 108				105" LHR
Opening Description: 3' 0" x 7' 0" x 1-3/4" x HM Type B x HMF Type HMF A					
6 Hinges	MPB99 4 1/2 X 4 1/2 NRP	32D			MC
2 Mortise Lockset-Closet	LC 8236 LNL	32D		RHR	SA
2 Cylinder Core	33600006 (N) (26) DBK KEYWAY (S) (N) (N) (**4KS)	26			EIN V
2 SFIC Core Housing	33-076021	26			ME
2 Protection Plate	K1050 10" x 34" CSK			US32D	RO
2 Key Blank	KYB386900 DBK KETWAY 99 C7FK N X4 (**4KS)				EINV
1 Wall Stop	406			US32D	RO

- REMARKS LEGEND:
- CLOSER
 - ENTRANCE FUNCTION LOCKSET
 - OFFICE FUNCTION LOCKSET
 - CLOSET FUNCTION LOCKSET
 - PASSAGE FUNCTION LOCKSET
 - 1 1/2 PR. BUTT HINGES
 - WEATHERSTRIPPING
 - ADA THRESHOLD
 - 1" INSUL. SAFETY GLASS
 - 1" SAFETY GLASS
 - JOHNSON HARDWARE POCKET DOOR FRAME #153070HD, 200PD POCKET DOOR HARDWARE, 134U515 1-3/4" DUMMY POCKET DOOR PULL SET AND 150U515 US15 SATIN NICKEL EDGE PULL (BASIS OF DESIGN) REPLACE EXISTING LOCKSET WITH NEW PASSAGE LOCKSET SIMILAR TO HARDWARE SET 2.

MANUFACTURE LIST	
CODE	DESCRIPTION
MC	MCKINNEY
ME	MEDECO
NA	NATIONAL GUARD
PE	PEMCO
RO	ROCKWOOD
SA	SARGENT
FINISH LIST	
CODE	DESCRIPTION
US26	POLISHED CHROME
US26D	BRUSHED CHROME
US32D	BRUSHED STAINLESS STEEL
EN	SPRAYED FINISH, ALUMINUM

DOOR AND FRAME SCHEDULE									
DOOR NO.	DOOR				FRAME			HARDWARE SETS	REMARKS
	DIMENSION			MATERIAL	TYPE	MATERIAL	TYPE		
	WIDTH	HEIGHT	THICK						
101	3'-0"	7'-0"	1-3/4"	HOLLOW METAL-INSULATED	A	HOLLOW METAL	B	1	1,2,6,7,8,9
102	3'-0"	7'-0"	1-3/4"	HOLLOW METAL	A	HOLLOW METAL	A	2	1,5,6,10
103	3'-0"	7'-0"	1-3/4"	FIBERGLASS	C	WOOD/METAL	C		11
104	3'-0"	7'-0"	1-3/4"	FIBERGLASS	C	WOOD/METAL	C		11
105	3'-0"	7'-0"	1-3/4"	EXISTING	EX	EXISTING	EX	2	5,12
106	3'-0"	7'-0"	1-3/4"	HOLLOW METAL	B	HOLLOW METAL	A	3	4,6
107	3'-0"	7'-0"	1-3/4"	HOLLOW METAL	B	HOLLOW METAL	A	3	4,6



General Notes

Issued For Bidding	5/1/24
No.	Revision/Issue
Date	

Firm Name and Address

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Project Name and Address

Proposed Quarantine Room:

Lake Metroparks
Penitentiary Glen Reservation
Kevin P. Clinton Wildlife Center

8668 Kirtland Chardon Rd., Kirtland, OH 44094

Project	Sheet
202303	
Date	
2/24	
Scale	
Schedules	A6

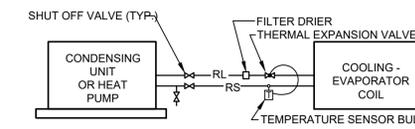
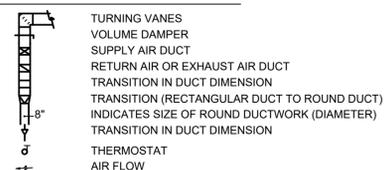
GENERAL NOTES

- COORDINATE SCHEDULE OF WORK REQUIRED IN OCCUPIED AND OPERATING AREAS WITH OWNER PRIOR TO STARTING SUCH WORK.
- SCHEDULE UTILITY SERVICE SHUTDOWNS REQUIRED FOR NEW CONSTRUCTION WITH OWNER AND GENERAL TRADES PRIOR TO SHUTTING DOWN SYSTEMS. GIVE ONE WEEK ADVANCE NOTICE IN WRITING.
- COORDINATE AIR DISTRIBUTION DEVICE LOCATIONS WITH FINAL REFLECTED CEILING PLAN.
- THE DUCTWORK SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- UNLESS OTHERWISE NOTED, DUCTWORK SERVING A SINGLE DIFFUSER, GRILLE OR REGISTER IS TO BE FULL NECK SIZE OF AIR DISTRIBUTION DEVICE FROM BRANCH TAKE-OFF TO DEVICE CONNECTION.
- MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES FOR ALL APPLICABLE MECHANICAL EQUIPMENT.

MECHANICAL ABBREVIATIONS

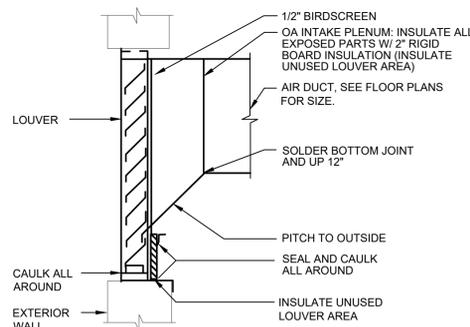
- CFM CUBIC FEET PER MINUTE
- CLG CEILING
- deg. F DEGREES FAHRENHEIT
- DIA DIAMETER
- EA EXHAUST AIR
- ETR EXISTING TO REMAIN
- G.C. GENERAL CONTRACTOR
- HZ HERTZ
- MAX MAXIMUM
- MBH THOUSAND BRITISH THERMAL UNITS (BTU)
- MC MECHANICAL CONTRACTOR
- MCA MINIMUM CIRCUIT AMPACITY
- MIN MINIMUM
- MOCP MAXIMUM OVERCURRENT PROTECTION
- NEC NATIONAL ELECTRIC CODE
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- OA OUTSIDE AIR
- OBC OHIO BUILDING CODE
- OMC OHIO MECHANICAL CODE
- RA RETURN AIR
- RPM REVOLUTIONS PER MINUTE
- RTU ROOFTOP UNIT
- SA SUPPLY AIR
- TYP TYPICAL
- UL UNDERWRITERS LABORATORY

MECHANICAL SYMBOLS

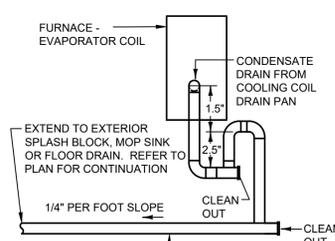


NOTE: PITCH HORIZONTAL PIPING MINIMUM 1/2" PER 10'-0" IN DIRECTION OF FLOW

REFRIGERANT-SPLIT SYSTEM PIPING
NO SCALE

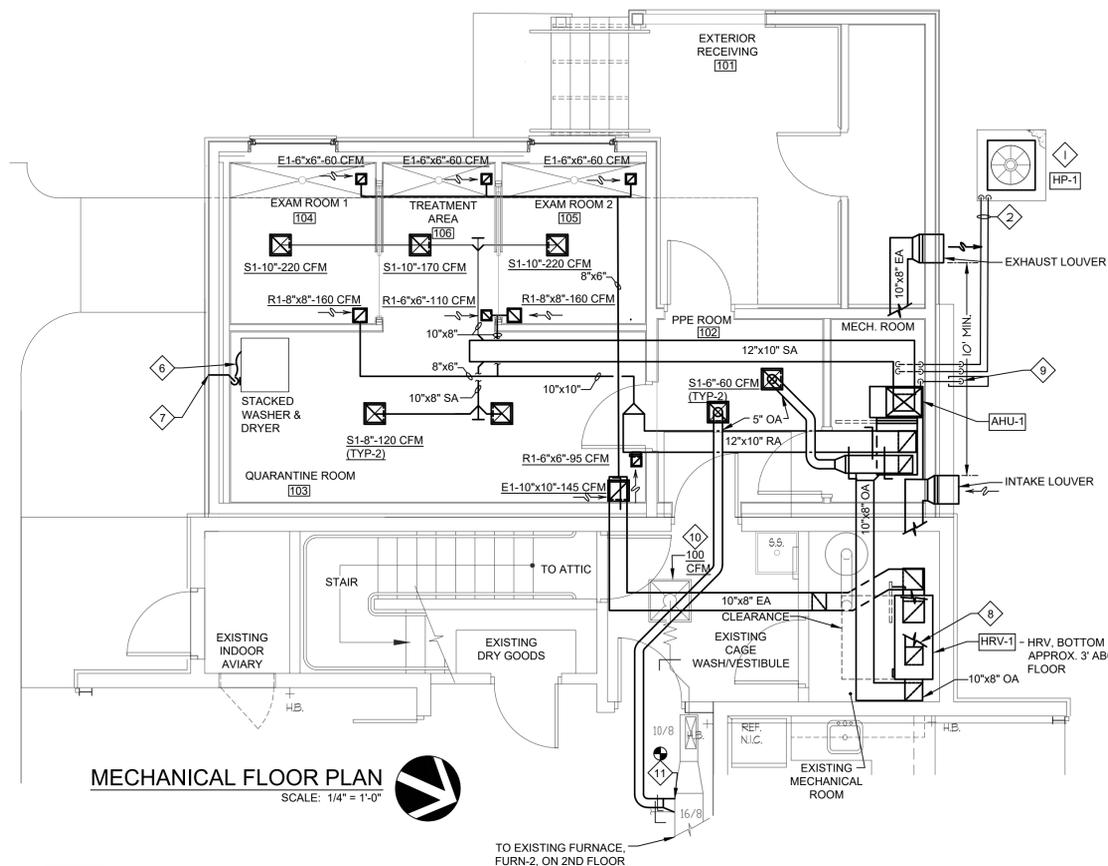


DUCT-LOUVER CONNECTION
NO SCALE



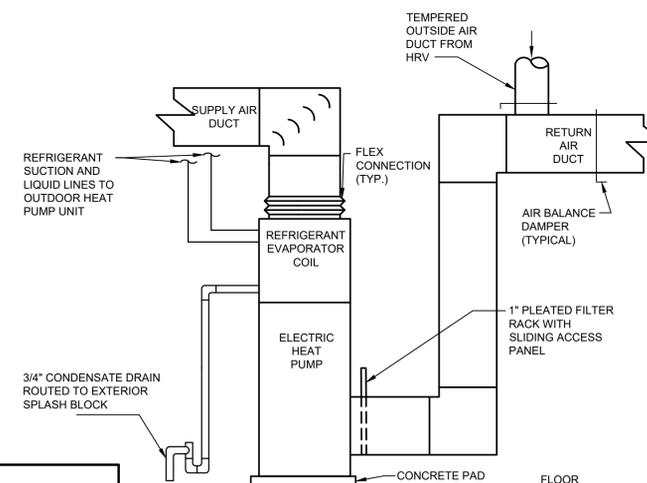
FURNACE & EVAPORATOR CONDENSATE DETAIL
NO SCALE

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



PLAN NOTES

- MOUNT CONDENSING UNIT ON 4 INCH HIGH CONCRETE PAD.
- ROUTE REFRIGERANT PIPES ON SIDE OF BUILDING TO EXISTING MECHANICAL BUILDING.
- FURNACE IS MOUNTED ON CONCRETE PAD. ALLOW SPACE FOR MAINTENANCE.
- ROUTE INTAKE AND EXHAUST FLUE PIPES THROUGH ROOF.
- ROUTE OUTSIDE AIR DUCT FROM EXTERIOR WALL LOUVER TO ENERGY RECOVERY UNIT.
- 4" DRYER VENT. PROVIDE 5'-0" LONG METAL FLEXIBLE CONNECTOR FOR DRYER OUTLET.
- 4" DRYER VENT THROUGH WALL WITH WALL CAP, 18" ABOVE GRADE, TYPICAL.
- ROUTE DUCT IN ATTIC TO NEW EXHAUST LOUVER IN EXTERIOR MECHANICAL ROOM.
- EXTEND AC DRAIN PIPING OUTSIDE TO CONCRETE DRAIN PAD.
- EXISTING DIFFUSER TO REMAIN. CLEAN DIFFUSER AND AIR BALANCE TO CFM NOTED.
- CONNECT TO EXISTING DUCTWORK FROM EXISTING FURNACE, FURN-2, LOCATED ON 2ND FLOOR. PROVIDE NEW AIR BALANCE DAMPER AND AIR BALANCE EXISTING FURNACE PER EXISTING DRAWINGS. INCREASE FURNACE AIR FLOW BY 60 CFM.



AIR HANDLER DETAIL
NO SCALE

REGISTERS, GRILLES, AND DIFFUSERS SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	MATERIAL	FINISH	FRAME TYPE	GRILLE OR DIFFUSER SIZE	MAX. NC	REMARKS
S1	PRICE	SCD SQUARE CONE DIFFUSER	SUPPLY GRILLE	STEEL	BY ARCHITECT	12"x12" CEILING MOUNTED	6"Ø NECK	30	
S2	PRICE	SCD SQUARE CONE DIFFUSER	SUPPLY GRILLE	STEEL	BY ARCHITECT	24"x24" CEILING MOUNTED	8"Ø NECK	30	
R1	PRICE	535	RETURN GRILLE	STEEL	BY ARCHITECT	CEILING MOUNTED	22" W. X 22" H.	30	
E1	PRICE	535	EXHAUST GRILLE	STEEL	BY ARCHITECT	CEILING MOUNTED	6" W. X 6" H.	30	

LOUVER SCHEDULE

MARK	SERVICE	MANUFACTURER	MODEL	CFM	FREE AREA (FT2)	FREE AREA VELOCITY (FPM.)	SIZE (WIDTH X HEIGHT)	REMARKS
L-1	EXHAUST	GREENHECK	ESD-435	210	0.3	700	12" W X 12" H	1-2
L-2	OA INTAKE	GREENHECK	ESD-435	50-150	0.3	167-500	12" W X 12" H	1-2

- REMARKS:
1. PROVIDE FLANGED LOUVER. CONTRACTOR TO CAULK WEATHER TIGHT.
2. COLOR SELECTION BY ARCHITECT.

SPLIT SYSTEM HEATING/COOLING UNIT SCHEDULE

MARK	SERVICE	MANUFACTURER/MODEL	NOMINAL TONS	INDOOR UNIT COOLING-EVAP						HEATING						OUTDOOR UNIT						SEER	REMARKS				
				TOTAL CFM	OA CFM	OA DUCT SIZE DIA. (INCHES)	ESP (INCHES)	RPM	MOTOR HP or W	MODEL	TOTAL MBH	SENSIBLE MBH	EAT DB (DEGREES F)	EAT WB (DEGREES F)	FUEL	INPUT	MBH OUTPUT	VOLTAGE	MCA	MOCP	MODEL			AIR ON CONDENSER (DEGREES F)	VOLTAGE	MCA	MOCP
AHU-1/HP-1	EXAM & QUAR. ROOM	LENNOX CBA27UHE-024	1.5	840	265	10"Ø	0.8	1200	1/2 HP	CX35-30B-6F-20	20	16	80	67	ELECT.	8 KW	27.2	208V/1Ø	41	45	EL16XP1-018-230	95	208V/1Ø	12	20	16	1-10

- REMARKS:
1. MOUNT CU AND HP ON CONCRETE PAD. SECURE UNIT TO CONCRETE PAD USING STAINLESS STEEL FASTENERS.
2. TYPE B FLUE VENT.
3. ROUTE CONDENSATE DRAIN TO SPLASHBLOCK, FLOOR DRAIN OR MOP SINK.
4. UPFLOW, VERTICAL MOUNTING FOR FURNACE, EVAPORATOR COIL, FILTER BOX.

- REFRIGERANT LINES SIZED FOR ACTUAL LENGTH, INCLUDING ALL PIPE FITTINGS.
- PROVIDE WITH CRANKCASE HEATER, CYCLE PROTECTOR, FILTER DRYER, LOW AMBIENT COOLING CAPABILITY.
- WALL MOUNTED, PROGRAMMABLE THERMOSTAT.
- OTHER MANUFACTURER'S WILL BE CONSIDERED IF APPROVED BY ENGINEER AND PERFORMANCE IS EQUAL, SPECIFICATIONS MET, ETC.
- PROVIDE WITH FURNACE FLUE DRAIN TRAP ASSEMBLY, AND FILTER

- BOX. CONTRACTOR TO INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
6. PROVIDE CRANKCASE HEATER AND NON-BLEED PORT TXV. TXV REQUIRED WHEN EQUIVALENT LENGTH OF REFRIGERANT PIPING EXCEEDS 80'. TXV FIELD INSTALLED BY CONTRACTOR, IF REQUIRED.

HEAT RECOVERY VENTILATOR SCHEDULE

MARK	SERVICE	MANUFACTURER	MODEL	EXHAUST AIR CFM	OUTDOOR AIR CFM	DUCTWORK SIZE (TO BOTH INLETS AND OUTLETS)	MOTOR				REMARKS
							HP	VOLTAGE	MCA	MOCP	
HRV-1	AHU-1 & AC-1	GREENHECK	MINICORE-5-VG-P	325	325	REFER TO PLAN	(2) 1/4	120V/1Ø	6.4	20	1-3

- REMARKS:
1. INTERLOCK WITH AHU AND AC UNIT.
2. PROVIDE BALANCE DAMPERS AT EACH INPUT AND OUTPUT (TYPICAL -4).
3. OTHER MANUFACTURER'S WILL BE CONSIDERED IF APPROVED BY ENGINEER AND PERFORMANCE & PHYSICAL SIZE IS EQUAL, SPECIFICATIONS MET, ETC.

General Notes

PRELIMINARY
NOT FOR CONSTRUCTION
PRELIMINARY



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No.	Revision/Issue	Date
1	Revision 1 Plan Review	7/8/24
	For Bid Only	5/1/24

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Project Name and Address
Proposed Quarantine Room:
Lake Metroparks
Penitentiary Glen Reservation
Kevin P. Clinton Wildlife Center
8668 Kirtland Chardon Rd., Kirtland, OH 44094

Project	Sheet
202303	
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2/24	
Scale	
Plan	

M1

PLUMBING & HVAC SPECIFICATIONS

SECTION 22 05 00 - COMMON WORK RESULTS FOR PLUMBING

- PART 1 GENERAL
- 1.1 SUBMITTALS
 - A. PRODUCT DATA: REQUIRED
- 1.2 LEAD CONTENT OF DRINKING WATER PIPE AND FITTINGS:
 - A. PIPE, PIPE FITTINGS, JOINTS, VALVES FAUCETS AND FIXTURE FITTINGS UTILIZED TO SUPPLY WATER FOR DRINKING OR COOKING PURPOSES WILL COMPLY WITH THE REQUIREMENTS OF NSF 372 AND SHALL HAVE A WEIGHTED LEAD CONTENT OF 0.25 PERCENT LEAD OR LESS.

PART 2 PRODUCTS

- 2.1 PIPING
 - A. SANITARY SEWER AND VENT BURIED: SERVICE WEIGHT CAST IRON, TYPE DWV COPPER TUBE, ABS TYPE DWV, SOLID WALL PVC TYPE DWV.
 - B. DOMESTIC WATER ABOVE GRADE: TYPE L COPPER TUBE, HARD DRAWN, SOLDERED JOINTS WITH 60-5 SOLDER, OR COPPER PRESS FITTINGS CONFORMING TO ASME B18.18 CAST COPPER ALLOY OR ASME B16.22, WROUGHT COPPER AND BRONZE WITH EPDM O-RING SEALS, COMPRESSION TYPE JOINTS MADE WITH MANUFACTURER'S TOOL.
 - C. DOMESTIC WATER ABOVE GRADE, 2 INCH AND SMALLER: CROSS-LINKED POLYETHYLENE (PEX-B) TUBE, SILANE OR MOISTURE CURE MANUFACTURING PROCESS, ASTM F876, AND ASTM F2023, RATED FOR 100 PSI AT 180 DEGREES F, MAXIMUM EXPOSURE OF SIX MONTHS, RATED FOR END USE CONDITION OF 100 PERCENT AT 140 DEGREES F, AND APPROVED FOR CONTINUOUS DOMESTIC HOT WATER CIRCULATION SYSTEMS USE, JOINTS POLYMER BODY WITH COMPRESSION TYPE FITTINGS MADE WITH MANUFACTURERS TOOL.

- 2.2 CLEAN OUTS SHALL BE BRASS, AND BE PROVIDED PER LOCAL, AND INTERNATIONAL CODE REQUIREMENTS.
 - A. OVER 2 INCHES: CAST IRON BODY AND FULL PORT FLUG.
- 2.3 PIPE HANGERS
 - A. ALL SERVICES: CLEVIS TYPE CONFORMING TO MSS TYPE 1.
 - B. UPPER ATTACHMENTS: COMPATIBLE WITH TYPE OF STRUCTURE BEING USED, AT STEEL JOIST LOCATIONS ATTACH HANGERS TO TOP CHORD OF JOISTS.

PART 3 EXECUTION

- 3.1 INSTALLATION
 - A. PROVIDE DIELECTRIC CONNECTIONS WHEREVER JOINTING DISSIMILAR METALS.
 - B. REAM PIPE AND TUBE ENDS, REMOVE BURRS, BEVEL PLAIN END FERROUS PIPE.

SECTION 22 07 00 - PLUMBING INSULATION

- PART 1 GENERAL
- 1.1 SUBMITTALS
 - A. PRODUCT DATA: REQUIRED.

PART 2 PRODUCTS

- 2.1 PIPE INSULATION
 - A. GLASS FIBER: RIGID MOLDED, NONCOMBUSTIBLE WITH VAPOR BARRIER JACKET.
 - B. CELLULAR FOAM: FLEXIBLE, CELLULAR ELASTOMERIC, MOLDED OR SHEET.
 - C. PIPE INSULATION RATED FOR 0-1000 DEGREES F, WITH A "K" FACTOR OF 0.24 AT A MEAN TEMPERATURE OF 100 DEGREES F, REFER TO SCHEDULE FOR INSULATION REQUIRED THICKNESS.
 - D. INSULATION SHALL NOT CONTAIN ANY PBDE (POLYBROMINATED DIPHENYL ETHERS) FLAME RETARDANTS.

PART 3 EXECUTION

- 3.1 INSTALLATION
 - A. PIPING INSULATION
 - 1. INSULATE COMPLETE SYSTEM.

SECTION 23 05 00 - COMMON WORK RESULTS FOR HVAC

- PART 1 GENERAL
- 1.1 SUBMITTALS
 - A. PRODUCT DATA: SUBMIT VALVES AND GAGES.

PART 2 PRODUCTS

- 2.1 HVAC IDENTIFICATION
 - A. EQUIPMENT IDENTIFICATION: IDENTIFY NEW EQUIPMENT WITH TAGS SECURED TO EQUIPMENT.
- 2.2 FIRESTOPPING
 - A. MANUFACTURERS:
 - 1. DOW CORNING CORP.
 - 2. FIRE TRAK CORP.
 - 3. HLTI CORP.
 - 4. INTERNATIONAL PROTECTIVE COATING CORP.
 - 5. 3M FIRE PROTECTION PRODUCTS.
 - 6. SPECIFIED TECHNOLOGY, INC.
 - 7. TREMCO, INC.
 - B. MATERIALS CONFORMING TO FLAME (F) AND TEMPERATURE (T) RATINGS REQUIRED BY LOCAL BUILDING CODE AND AS TESTED BY NATIONALLY ACCEPTED TEST AGENCIES ACCORDING TO ASTM E814 OR UL 1479 FIRE TESTS IN CONFIGURATION THAT IS REPRESENTATIVE OF FIELD CONDITIONS, DEGREE RATING MUST BE MINIMUM OF ONE (1) HOUR BUT NOT LESS THAN FIRE RESISTANCE OF ASSEMBLY BEING PENETRATED.
 - C. DO NOT USE FIRESTOP MATERIALS WHICH DISSOLVE IN WATER AFTER CURING.
 - D. DO NOT USE FIRESTOP MATERIALS WHOSE SHELF LIFE HAS EXPIRED.

PART 3 EXECUTION

- 3.1 INSTALLATION - FIRESTOPPING
 - A. INSTALL FIRESTOPPING AT THE FOLLOWING PENETRATIONS:
 - 1. WHERE PENETRATIONS INCLUDING PIPING OR DUCTWORK WHICH PASS THROUGH ONE OR BOTH OUTER SURFACES OF FIRE-RATED WALL OR CEILING.

SECTION 23 05 93 - TESTING, ADJUSTING, AND BALANCING FOR HVAC

- PART 1 GENERAL
- 1.1 SUBMITTALS
 - A. FINAL REPORT: REQUIRED.
- 1.2 REPORT FORMS: AABC NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE FORMS.
- 1.3 AIR HANDLING SYSTEMS: ADJUST FANS AND AIR DISTRIBUTION OUTLETS AND INLETS AIRFLOWS TO WITHIN PLUS OR MINUS 5 PERCENT OF DESIGN.

SECTION 23 07 00 - HVAC INSULATION

- PART 1 GENERAL
- 1.1 SUBMITTALS
 - A. PRODUCT DATA: REQUIRED.

PART 2 PRODUCTS

- 2.1 DUCTWORK INSULATION
 - A. FLEXIBLE GLASS FIBER: FLEXIBLE, NONCOMBUSTIBLE BLANKET WITH VAPOR BARRIER JACKET.
 - B. RIGID GLASS FIBER: RIGID, NONCOMBUSTIBLE BLANKET WITH VAPOR BARRIER JACKET.
 - C. DUCT INSULATION "R" VALUES SHALL BE EQUAL TO OR GREATER THAN REQUIRED BY CODE.
 - D. INSULATION SHALL NOT CONTAIN ANY PBDE (POLYBROMINATED DIPHENYL ETHERS) FLAME RETARDANTS.

PART 3 EXECUTION

- 3.1 INSTALLATION
 - A. EXTERNAL DUCTWORK INSULATION
 - 1. PROVIDE COLD DUCTWORK WITH VAPOR BARRIER, JACKET, SEAL, VAPOR BARRIER PENETRATIONS WITH VAPOR BARRIER ADHESIVE.
 - 2. FOR EXPOSED DUCTWORK IN UNCONDITIONED ATTIC, FINISH WITH ALUMINUM JACKET.
 - 3. FOR EXTERIOR APPLICATIONS, PROVIDE OUTDOOR JACKET.

SCHEDULES

INSULATION	INSULATION THICKNESS	INCH
A. DUCTWORK INSULATION	1. FLEXIBLE GLASS FIBER	
	SUPPLY DUCTS IN ATTIC	2.0
	RETURN DUCTS IN ATTIC	2.0
	OUTSIDE AIR INTAKE DUCTS	2.0

SECTION 23 09 00 - INSTRUMENTATION AND CONTROL FOR HVAC

- PART 1 GENERAL
- 1.1 SYSTEM DESCRIPTION
 - A. DESIGN REQUIREMENTS: ELECTRIC SYSTEM INCLUDING CONTROL DEVICES, ACTUATORS, AND ELECTRIC ACCESSORIES.
- 1.2 SUBMITTALS
 - A. PRODUCT DATA: REQUIRED.
 - B. SHOP DRAWINGS: REQUIRED.

PART 2 PRODUCTS

- 2.1 CONTROL COMPONENTS
 - A. FURNISH MATERIALS AND EQUIPMENT OF STANDARD COMPONENTS, MANUFACTURED FOR USE IN CONTROL SYSTEMS AND NOT CUSTOM DESIGNED ESPECIALLY FOR THIS PROJECT. FURNISH COMPONENTS TESTED AND PROVEN IN ACTUAL USE.
 - B. FURNISH PRODUCTS TO ACCOMPLISH SEQUENCES OF OPERATION DESCRIBED IN PART 3.
 - C. CONTROL WIRING: WIRING IN ACCORDANCE WITH REQUIREMENTS OF DIVISION 26. MINIMUM WIRE SIZE TO BE 14 GAUGE.

PART 3 EXECUTION

- 3.1 INSTALLATION
 - A. AFTER COMPLETION OF INSTALLATION, TEST AND ADJUST CONTROL EQUIPMENT.
 - B. PROVIDE CONDUIT AND ELECTRICAL WIRING IN ACCORDANCE WITH APPROPRIATE REQUIREMENTS OF DIVISION 26.
- 3.2 SEQUENCES OF OPERATION
 - A. ENERGY RECOVER VENTILATORS
 - 1. OCCUPIED CYCLE: FAN OPERATES CONTINUOUSLY. OUTSIDE AIR DAMPERS ARE OPEN TO THEIR MINIMUM POSITION. UNOCCUPIED CYCLE: THE UNIT FAN AND FANS ARE OFF.

SECTION 23 30 00 - HVAC AIR DISTRIBUTION

- PART 1 GENERAL
- 1.1 SUBMITTALS
 - A. PRODUCT DATA: REQUIRED.
 - B. SHOP DRAWINGS: NOT REQUIRED.

PART 2 PRODUCTS

- 2.1 DUCTWORK
 - A. MATERIALS
 - 1. STEEL DUCTS: GALVANIZED STEEL SHEET, LOCK-FORMING QUALITY.
 - 2. FLEXIBLE DUCTS: FABRIC SUPPORTED BY HELICALLY WOUND SPRING STEEL WIRE OR FLAT STEEL BANDS.
 - B. METAL DUCTWORK
 - 1. FABRICATE AND SUPPORT IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.
 - 2. CONSTRUCT T'S, BENDS, AND ELBOWS WITH RADIUS OF 1-1/2 TIMES WIDTH OF DUCT ON CENTER LINE OR PROVIDE TURNING VANES.
 - 3. INCREASE DUCT SIZES GRADUALLY, NOT EXCEEDING 30 DEGREES DIVERGENCE AND 45 DEGREES CONVERGENCE.
 - C. MANUFACTURED DUCTWORK AND FITTINGS
 - 1. MANUFACTURE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE. FURNISH DUCT MATERIAL, GAGES, REINFORCING, AND SEALING FOR OPERATING PRESSURES AS INDICATED ON DRAWINGS.
- 2.2 DUCT ACCESSORIES
 - A. VOLUME CONTROL DAMPERS
 - 1. FABRICATION: SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.
 - 2. SINGLE BLADE DAMPERS: FABRICATE FOR DUCT SIZES TO 12 X 30 INCH.
 - 3. QUADRANTS: PROVIDE LOCKING, INDICATING REGULATORS ON DAMPERS.
 - B. FLEXIBLE DUCT CONNECTIONS: UL LISTED FIRE-RETARDANT NEOPRENE COATED WOVEN GLASS FIBER FABRIC TO NFPA 90A, APPROXIMATELY 3 INCHES WIDE, CRIMPED INTO METAL EDGING STRIP.

2.3 GRILLES, REGISTERS, AND DIFFUSERS

- A. MANUFACTURER: TITUS OR SIMILAR BY ANEMOSTAT, KRUEGER, E. H. PRICE COMPANY OR NAILOR-HART.
- B. GENERAL: GRILLE, REGISTER, AND DIFFUSER INFORMATION MARK, MODEL NUMBER, TYPE, SIZE, FINISH, AND ACCESSORY ITEMS ARE INDICATED IN SCHEDULE LOCATIONS, TYPE, CFM, AND DIRECTIONS OF THROW (WHERE APPLICABLE) ARE INDICATED ON DRAWINGS.
- C. DEFINITIONS: TERMS USED FOR GRILLES, REGISTERS, AND DIFFUSERS ARE AS FOLLOWS:

- 1. GRILLES: SAME STYLE AS REGISTERS BUT WITHOUT DAMPER. REGISTERS: ITEMS LABELED AS REGISTERS ARE TO BE FURNISHED WITH OPPOSED BLADE DAMPERS.
- D. FINISH: FURNISH GRILLES, REGISTERS AND DIFFUSERS WITH FACTORY APPLIED OFF-WHITE FINISH UNLESS NOTED OTHERWISE.

PART 3 EXECUTION

- 3.1 INSTALLATION
 - A. CONNECT DIFFUSERS OR TROFFER BOOTS TO LOW PRESSURE DUCTS WITH 5 FEET MAXIMUM LENGTH OF FLEXIBLE DUCT.
 - B. INSTALL FLEXIBLE CONNECTIONS IMMEDIATELY ADJACENT TO EQUIPMENT IN DUCTS ASSOCIATED WITH FANS AND MOTORIZED EQUIPMENT.
 - C. CHECK LOCATION OF AIR OUTLETS AND INLETS AND MAKE NECESSARY ADJUSTMENTS IN POSITION TO CONFORM WITH ARCHITECTURAL FEATURES, SYMMETRY, AND LIGHTING ARRANGEMENT.
 - D. PROVIDE BALANCING DAMPERS ON DUCT TAKE-OFF TO DIFFUSERS, AND GRILLES AND REGISTERS.
 - E. PAINT DUCTWORK VISIBLE BEHIND AIR OUTLETS AND INLETS MATTE BLACK.

SECTION 23 80 00 - DECENTRALIZED HVAC EQUIPMENT

- PART 1 GENERAL
- 1.1 SUBMITTALS
 - A. PRODUCT DATA: REQUIRED.
 - B. SHOP DRAWINGS: NOT REQUIRED.

PART 2 PRODUCTS

- 2.1 ENERGY RECOVERY UNITS
 - A. ENERGY RECOVERY COMPONENT SHALL BE OF FIXED-PLATE CROSS-FLOW CONSTRUCTION, WITH NO MOVING PARTS CAPABLE OF OPERATING IN BOTH WINTER AND SUMMER CONDITIONS WITHOUT GENERATING CONDENSATE.
 - B. CASE CONSTRUCTED OF 20 GAUGE GALVANIZED STEEL, WITH LAPPED CORNERS AND ZINC-PLATED SCREW FASTENERS. ACCESS DOORS SHALL PROVIDE EASY ACCESS TO BLOWERS, ERV CORES, AND FILTERS. DOORS SHALL HAVE AN AIRTIGHT COMPRESSION SEAL USING CLOSED CELL FOAM GASKETS. PRESSURE TAPS, WITH CAPTIVE PLUGS, SHALL BE PROVIDED ALLOWING CROSS-CORE PRESSURE MEASUREMENT ALLOWING FOR ACCURATE AIRFLOW MEASUREMENT. CASE WALLS AND DOORS SHALL BE INSULATED WITH 1 INCH, 4 POUND DENSITY, FOLIOSCRIM FACED, HIGH-DENSITY FIBERGLASS BOARD INSULATION, PROVIDING A CLEANABLE SURFACE AND ELIMINATING THE POSSIBILITY OF EXPOSING THE FRESH AIR TO GLASS FIBERS, AND WITH MINIMUM R-VALUE OF 4.3 (R-F12 F/RTU). THE ERV CORES SHALL BE PROTECTED BY A MERV-8 RATED, 2" NOMINAL, PLEATED, DISPOSABLE FILTER IN BOTH AIRSTREAMS.
 - C. UNIT SHALL HAVE SINGLE-POINT POWER CONNECTION AND A SINGLE-POINT 24 VAC CONTACTOR CONTROL CONNECTION.
 - D. BLOWER MOTORS: PREMIUM EFFICIENCY, IE3A COMPLIANT FOR ENERGY EFFICIENCY, TOTALLY ENCLOSED (TEFC) AND BE SHALL BE SUPPLIED WITH FACTORY INSTALLED MOTOR STARTERS. DIRECT DRIVE MODELS SHALL BE IE3A-COMPLIANT FOR ENERGY EFFICIENCY WITH OPEN DRIP PROOF DESIGN AND INTEGRAL THERMAL PROTECTION.
 - E. BLOWERS: DIRECT DRIVE FORWARD CURVE TYPE.
 - F. THE UNIT ELECTRICAL BOX SHALL INCLUDE A FACTORY INSTALLED, NON-FUSED DISCONNECT SWITCH AND A 24 VAC, CLASS II TRANSFORMER/RELAY PACKAGE.
 - G. OPTIONS:
 - 1. PROVIDE UNIT AND DUCT CONNECTION ORIENTATION AS INDICATED ON THE DRAWINGS.
 - 2. PROVIDE DOUBLE WALL CONSTRUCTION WITH 24-GAUGE GALVANIZED STEEL LINER.
 - 3. UNIT OPERATING VOLTAGE AS INDICATED ON THE DRAWINGS.
 - 4. PROVIDE UNIT WITH FACTORY INSTALLED DISCONNECT FUSES.
 - 5. PROVIDE FACTORY INSTALLED FILTER MONITORS FOR EACH AIRSTREAM.
 - 6. PROVIDE ECM CONTROLLED MOTORS ALLOWING EITHER TWO PRESET SPEEDS OR VARIABLE SPEED OPERATION WITH A 0-10 VOLT DC CONTROL SIGNAL.
 - 7. PROVIDE FACTORY INSTALLED ISOLATION DAMPERS FOR EITHER OR BOTH AIR STREAMS (AVAILABLE FOR ALL MODELS EXCEPT EV450N). THE INSULATED DAMPERS SHALL BE OF A LOW LEAKAGE DESIGN AND SHALL NOT RESTRICT THE AIRSTREAM, REDUCING AIRFLOW, IN ANY WAY. THE DAMPERS SHALL BE OPENED WITH A MOTOR ACTUATOR POWERED BY THE STANDARD UNIT TRANSFORMER PACKAGE AND HAVE A SPRING RETURN FOR LOW OFF-POSITION POWER CONSUMPTION.
 - H. MANUFACTURER: RENAISSA, MODEL AS INDICATED ON THE DRAWINGS.

PART 3 EXECUTION

- 3.1 INSTALLATION ENERGY RECOVERY UNITS
 - A. LOCATE, ORIENT, AND CONNECT DUCTWORK PER AMCA, ASHRAE, AND SMACNA GUIDELINES. PROVIDE SERVICE CLEARANCES AS INDICATED ON THE PLANS AND MANUFACTURERS WRITTEN INSTALLATION DOCUMENTATION.
 - B. PROVIDE A STRUCTURALLY SUITABLE SUPPORT FOR THE BASE OF ANY WALL MOUNTED OR HUNG UNITS.
 - C. PROVIDE RUBBER OR SPRING TYPE ISOLATORS APPROPRIATELY SIZED FOR CORNER WEIGHTS OF ALL UNITS.
 - D. PROVIDE FLEXIBLE DUCT CONNECTIONS AT UNIT DUCT CONNECTIONS.
 - E. THERMALLY INSULATE AT LEVELS APPROPRIATE TO THE LOCAL CLIMATE. A CONTINUOUS VAPOR BARRIER SHALL ALSO BE PROVIDED ON WARM SURFACE OF THE INSULATION.
 - F. TEST AND BALANCING MAY NOT BEGIN UNTIL 100% OF THE INSTALLATION IS COMPLETE AND FULLY FUNCTIONAL.

SECTION 23 70 00 - HEATING, VENTILATING, AND AIR CONDITIONING EQUIPMENT

- PART 1 GENERAL
- 1.1 SUBMITTALS
 - A. SHOP DRAWINGS: REQUIRED.

PART 2 PRODUCTS

- 2.1 PACKAGED DUCTLESS AIR CONDITIONING UNITS (ACU-1 & CU-10)
 - A. UNITS: LENNOX, TOSHIBA OR MITSUBISHI PACKAGED, SELF-CONTAINED, WALL MOUNTED CABINET, ELECTRIC REFRIGERATION SYSTEM, REMOTE TEMPERATURE CONTROLS.
 - B. CABINET: WALL MOUNTED ABOVE DOOR, ALLOW FOR APPROXIMATELY 4" MINIMUM ABOVE CABINET.
 - C. AIR SYSTEM: FAN
 - 1. THE INDOOR FAN SHALL BE AN ASSEMBLY WITH A TURBO FAN DIRECT DRIVEN BY A SINGLE MOTOR.
 - 2. THE INDOOR FAN SHALL BE STATICALLY AND DYNAMICALLY BALANCED TO RUN ON A MOTOR WITH PERMANENTLY LUBRICATED BEARINGS.
 - 3. THE INDOOR FAN SHALL CONSIST OF THREE (3) SPEEDS, LOW, MID, AND HIGH.
 - 4. THE AUTO AIR SWING VANES SHALL BE CAPABLE OF AUTOMATICALLY SWINGING UP AND DOWN FOR UNIFORM AIR DISTRIBUTION.
 - D. HEATING: PROVIDED BY HEAT PUMP FUNCTIONALITY OR REVERSING VALVE OPERATION.

- E. FILTER: RETURN AIR SHALL BE FILTERED BY MEANS OF A LONG-LIFE WASHABLE FILTER.
- F. COIL:
 - 1. THE INDOOR COIL SHALL BE OF NONFERROUS CONSTRUCTION WITH SMOOTH PLATE FINS ON COPPER TUBING. ALL TUBE JOINTS SHALL BE BRAZED WITH PHOS-COPPER OR SILVER ALLOY.
 - 2. THE COILS SHALL BE PRESSURE TESTED AT THE FACTORY.
 - 3. THE UNIT SHALL INCLUDE A CONDENSATE LIFT MECHANISM THAT WILL BE ABLE TO RAISE DRAIN WATER 19-11/16" INCHES ABOVE THE CONDENSATE PAN.

G. OUTDOOR HEAT PUMP/CONDENSING UNIT:

- 1. CABINET: THE CASING SHALL BE FABRICATED OF GALVANIZED STEEL, BONDERIZED, FINISHED WITH AN ELECTROSTATICALLY APPLIED, THERMALLY FUSED ACRYLIC OR POLYESTER POWDER COATING FOR CORROSION PROTECTION. ASSEMBLY HARDWARE SHALL BE CADMIUM PLATED FOR WEATHER RESISTANCE. ASSEMBLY SHALL WITHSTAND LATERAL WIND GUST UP TO 155 MPH TO MEET APPLICABLE WEATHER CODES.

1.1 SUBMITTALS

- 2. FAN: THE UNIT SHALL BE FURNISHED WITH A DIRECT DRIVE, HIGH PERFORMANCE PROPELLER TYPE FAN. THE CONDENSER FAN MOTOR SHALL HAVE PERMANENTLY LUBRICATED BEARINGS. FAN SPEED SHALL BE SWITCHED AUTOMATICALLY ACCORDING TO THE NUMBER OF OPERATING INDOOR UNIT AND THE COMPRESSOR OPERATING FREQUENCY. THE FAN MOTOR SHALL BE MOUNTED WITH VIBRATION ISOLATION FOR QUIET OPERATION. OUTDOOR UNIT SOUND LEVEL SHALL NOT EXCEED 55 DBA.

H. COIL:

- 1. THE OUTDOOR UNIT COIL SHALL BE OF NONFERROUS CONSTRUCTION WITH LANCED OR CORRUGATED PLATE FINS ON COPPER TUBING.
- 2. THE COIL SHALL BE PROTECTED WITH AN INTEGRAL GUARD.
- 3. REFRIGERANT FLOW FROM THE OUTDOOR UNIT TO THE INDOOR UNITS SHALL BE INDEPENDENTLY CONTROLLED BY MEANS OF INDIVIDUAL ELECTRONIC LINEAR EXPANSION VALVES FOR EACH INDOOR UNIT.

I. COMPRESSOR:

- 1. THE COMPRESSOR SHALL BE A HIGH PERFORMANCE, HERMETIC, INVERTER DRIVEN, VARIABLE SPEED, DUAL ROTARY TYPE MANUFACTURED BY MITSUBISHI ELECTRIC CORPORATION.
- 2. THE COMPRESSOR MOTOR SHALL BE DIRECT CURRENT (DC) TYPE EQUIPPED WITH A FACTORY SUPPLIED AND INSTALLED INVERTER DRIVE PACKAGE.
- 3. THE OUTDOOR UNIT SHALL BE EQUIPPED WITH A SUCTION SIDE REFRIGERANT ACCUMULATOR.
- 4. THE COMPRESSOR WILL BE EQUIPPED WITH AN INTERNAL THERMAL OVERLOAD.
- 5. THE COMPRESSOR SHALL BE MOUNTED TO AVOID THE TRANSMISSION OF VIBRATION.

J. CONTROLS: PROVIDE WALL MOUNTED CONTROLLER, SECURED TO WALL.

- K. ACCESSORIES, AS NOTED ON SCHEDULE, INCLUDE, BUT NOT LIMITED TO: AC CONDENSATE PUMP AND LOW AMBIENT COOLING SHALL BE PROVIDED FOR ELEVATOR MACHINE ROOM COOLING (ACU-1); AIR BAFFLES TO COOL AT -20 DEGREES F EXTERIOR TEMPERATURE. CONTRACTOR TO INSTALL ACCESSORIES IF SHIPPED SEPARATELY, AND COORDINATE WIRING OF CONDENSATE PUMP WITH ELECTRICAL TRADES, AS REQUIRED FOR SYSTEM TO OPERATE COMPLETELY.

2.2 AIR SYSTEM: CENTRIFUGAL FORWARD CURVED EVAPORATOR FAN WITH PERMANENT SPLIT CAPACITOR MOTOR, POSITIVE PRESSURE.

2.3 FILTERS: WASHABLE AND ACCESSIBLE.

2.4 CONDENSATE DRAIN: DRAIN PAN TO DIRECT CONDENSATE TO CONDENSER COIL FOR RE-EVAPORATION.

2.5 CONTROLS: THERMOSTAT: REMOTE MOUNTED AND ADJUSTABLE FOR OFF-HEAT-AUTO-COOL SWITCH.

PART 3 EXECUTION

- 3.1 INSTALLATION
 - A. INSTALL UNITS LEVEL AND PER MANUFACTURER'S RECOMMENDATIONS.
 - B. PIPE DRAIN FROM INDOOR EVAPORATOR COOLING COILS' CONDENSATE PUMP TO OUTDOOR SPLASH BLOCK.
 - C. MOUNT AIR COOLED CONDENSER-COMPRESSOR PACKAGE ON ROOF CURB.

3.2 CLEANING

- A. AFTER CONSTRUCTION IS COMPLETED, INCLUDING PAINTING, CLEAN EXPOSED SURFACES OF UNITS.
- B. VACUUM CLEAN COILS AND INSIDE OF CABINETS.
- C. TOUCH UP MARRED OR SCRATCHED SURFACES OF FACTORY FINISHED CABINETS, USING FINISH MATERIALS FURNISHED BY MANUFACTURER.
- D. INSTALL NEW FILTERS IN UNITS AFTER SUBSTANTIAL COMPLETION.

3.3 DEMONSTRATION

- A. DEMONSTRATE UNIT OPERATION AND MAINTENANCE FOR A MINIMUM OF 4 HOURS, OR AS REQUIRED BY OWNER.

General Notes

**PRELIMINARY
NOT FOR
CONSTRUCTION
PRELIMINARY**



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For Bid Only	5/1/24
No.	Revision/Issue Date

Firm Name and Address

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Project Name and Address

**Proposed Quarantine Room:
Lake Metroparks
Penitentiary Glen Reservation
Kevin P. Clinton Wildlife Center**

8668 Kirtland Chardon Rd., Kirtland, OH 44094

Project 202303	Sheet
Date 2/24	MP1
Scale Plan	

GENERAL NOTES

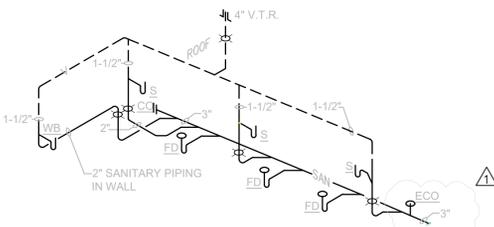
- A. COORDINATE SCHEDULE OF WORK REQUIRED IN OCCUPIED AREAS WITH OWNER PRIOR TO STARTING SUCH WORK.
- B. SCHEDULE UTILITY SERVICE SHUTDOWNS REQUIRED FOR NEW CONSTRUCTION WITH OWNER AND GENERAL TRADES CONTRACTOR PRIOR TO SHUTTING DOWN SYSTEMS. GIVE ONE WEEK ADVANCE NOTICE IN WRITING.
- C. CUT FLOOR, WALL, AND CEILING CONSTRUCTION FOR PENETRATIONS TO ACCOMMODATE PIPING. COORDINATE WITH GENERAL TRADES CONTRACTOR. PATCH CONSTRUCTION TO MATCH, OR TO SATISFACTION OF ARCHITECT AND OWNER.
- D. COORDINATE ROUTING OF NEW PIPING WITH NEW BUILDING CONDITIONS AND WITH WORK OF OTHER TRADES. PROVIDE CHANGES IN LOCATION, DIRECTION, OFFSETS, AS MAY BE REQUIRED, WHETHER SPECIFICALLY INDICATED OR NOT, AND AT NO ADDITIONAL COST TO THE OWNER.
- E. COORDINATE ROUTING OF PLUMBING PIPES WITH DUCTWORK PRIOR TO ANY ROUGH-IN INSTALLATION.
- F. ALL FIXTURES SHALL BE PROVIDED WITH SHUT-OFF BALL VALVES ON SUPPLY LINES.
- G. ALL FLOOR DRAINS TO MEET SECTIONS 1002.4 OF THE OPC
- H. ALL PUBLIC HAND WASHING SINKS SHALL BE SUPPLIED WITH TEMPERED WATER WITH AN APPROVED TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070.
- I. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE LOCAL, STATE, AND FEDERAL BUILDING CODES AND AUTHORITY HAVING JURISDICTION.
- J. PLUMBING WORK SHALL BE COMPLETED BY AN INDIVIDUAL OR BUSINESS THAT IS LICENSED BY THE STATE CONSTRUCTION INDUSTRY LICENSING BOARD.

PLUMBING ABBREVIATIONS

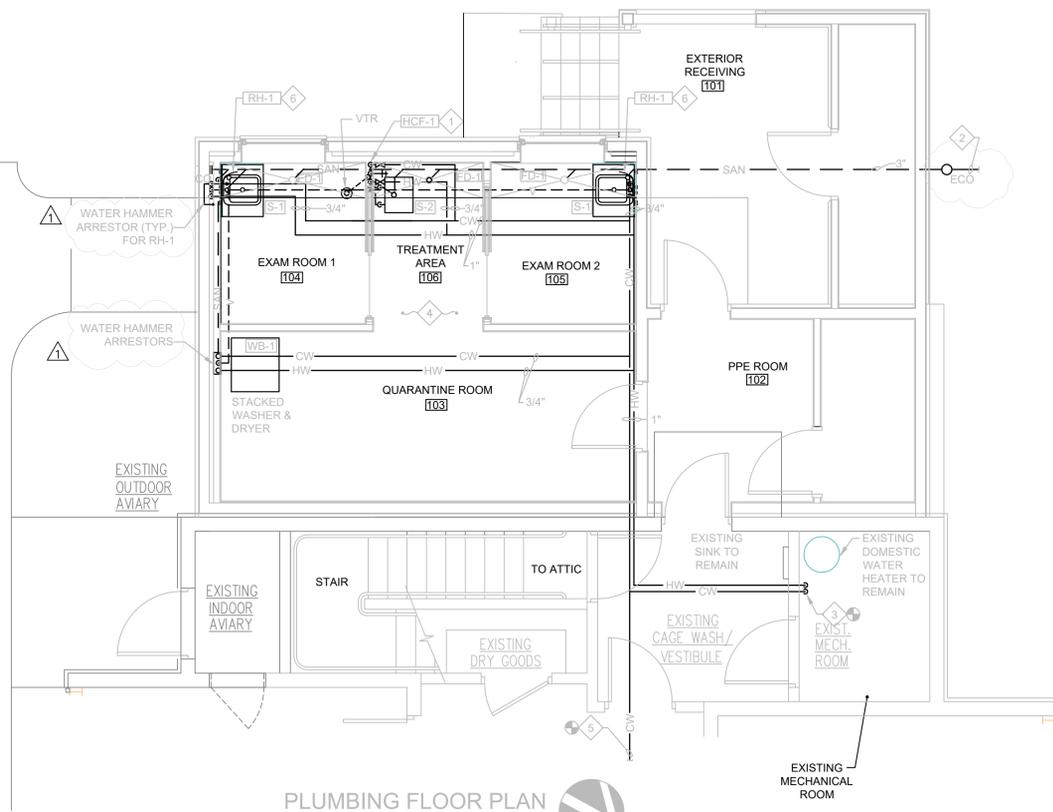
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
ARCH	ARCHITECT
BFF	BELOW FINISHED FLOOR
CBV	CALIBRATED BALANCING VALVE
CFH	CUBIC FEET PER HOUR
CW	DOMESTIC COLD WATER
deg. F	DEGREES FAHRENHEIT
DIA	DIAMETER
E.C.	ELECTRICAL CONTRACTOR
ECO	EXTERIOR CLEANOUT
EWC	ELECTRIC WATER COOLER
FD	FLOOR DRAIN
FS	FLOOR SINK
G.C.	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HP	HORSEPOWER
HW	DOMESTIC HOT WATER
in. w.c.	INCHES WATER COLUMN
KW	KILOWATT
L	LAVATORY
MB	MOP BASIN
M.C.	MECHANICAL CONTRACTOR
MIN	MINIMUM
MV	MIXING VALVE
NPSH	NET POSITIVE SUCTION HEAD
OPC	OHIO PLUMBING CODE
P	PUMP
P.C.	PLUMBING CONTRACTOR
PH	PHASE
PVC	POLYVINYL CHLORIDE PLASTIC
QTY	QUANTITY
S	SINK
TYP.	TYPICAL
V	VOLTS
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT

PLUMBING SYMBOLS

	AQUASTAT
	BACKFLOW PREVENTER
	CALIBRATED BALANCING VALVE
	CHECK VALVE
	CLEANOUT
	CLEANOUT (HORIZONTAL)
	FLOW DIRECTION
	PIPE ELBOW, DOWN
	PIPE ELBOW, UP
	PIPE TEE, DOWN
	PIPE TEE, UP
	TEMPERATURE AND PRESSURE RELIEF VALVE
	VACUUM RELIEF VALVE
	SHUTOFF VALVE
	THERMOMETER
	UNION
	SANITARY WASTE (BELOW FLOOR)
	VENT PIPING
	STORM WATER (ABOVE FLOOR)
	STORM SEWER (BELOW FLOOR)
	DOMESTIC COLD WATER
	120° DOMESTIC HOT WATER
	140° DOMESTIC HOT WATER
	140° RECIRCULATING DOMESTIC HOT WATER
	NATURAL GAS



STACK DIAGRAM



PLUMBING FLOOR PLAN

SCALE: 1/4" = 1'-0"

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	WASTE	VENT	HW	CW	MANUFACTURER AND MODEL NUMBER
S-1	SINGLE BOWL COUNTERTOP SINK	1-1/2"	1-1/2"	1/2"	1/2"	FIXTURE: 21 INCH BY 17 INCH BY 10 INCH DEPTH, INSIDE DIMENSIONS 16 INCH BY 14 INCH, 20 GAUGE, TYPE 304 STAINLESS STEEL, SELF RIM, DOUBLE LEDGE, SINGLE COMPARTMENT WITH UNDERCOATING, DRILLED TO ACCOMMODATE FAUCET. REGENCY 600DII1416R OR SIMILAR BY JUST OR ELKAY. FAUCET: CHROME PLATED BRASS FAUCET, WRIST BLADE HANDLES, 4 INCH CENTER, RIGID/SWING GOOSENECK SPOUT, 2.0 GPM FLOW RESTRICTOR, LAMINAR FLOW, REGENCY OR APPROVED EQUAL. SUPPLIES: FURNISH CHROME PLATED RIGID OR FLEXIBLE SUPPLIES, REDUCERS, AND ESCUTCHEONS. DRAIN: STAINLESS STEEL BASKET STRAINER WITH CHROME PLATED BRASS 1-1/2 INCH DIAMETER TAILPIECE. TRAP: FURNISH CHROME PLATED BRASS ADJUSTABLE "P" TRAP WITH CLEANOUT AND 17 GAUGE WASTE TO WALL WITH ESCUTCHEON.
S-2	SINGLE BOWL INTEGRAL SINK	1-1/2"	1-1/2"	1/2"	1/2"	FIXTURE: STAINLESS STEEL TABLE WITH SINK, PROVIDED BY ARCHITECTURAL TRADES (CONFIRM) REGENCY 60S73060L FAUCET: CHROME PLATED BRASS FAUCET, WRIST BLADE HANDLES, 4 INCH CENTER, RIGID/SWING GOOSENECK SPOUT, 2.0 GPM FLOW RESTRICTOR, LAMINAR FLOW, REGENCY OR APPROVED EQUAL. SUPPLIES: FURNISH CHROME PLATED RIGID OR FLEXIBLE SUPPLIES, REDUCERS, AND ESCUTCHEONS. DRAIN: STAINLESS STEEL BASKET STRAINER WITH CHROME PLATED BRASS 1-1/2 INCH DIAMETER TAILPIECE. TRAP: FURNISH CHROME PLATED BRASS ADJUSTABLE "P" TRAP WITH CLEANOUT AND 17 GAUGE WASTE TO WALL WITH ESCUTCHEON.
WB-1	WASHER BOX	2" STAND PIPE	1-1/2"	1/2"	1/2"	OATEY "QUADRO" WASHING MACHINE OUTLET BOX, 1/4" TURN BALL VALVES WITH HAMMER ARRESTERS AND 2 INCH DRAIN.
HCF-1	HOSE BIBB FAUCET HOT & COLD WATER	-	-	3/4"	3/4"	FAUCET: CHROME PLATED SERVICE FAUCET, THREADED SPOUT WITH BUCKET HOOK, VACUUM BREAKER, HOSE OUTLET SPOUT END, WALL BRACE, FOUR-ARM HOT AND COLD HANDLES, AND STOPS IN SHANKS. ZURN Z1996-SF OR APPROVED EQUAL.
RH-1	RETRACTABLE HOSE BIBB COLD WATER	-	-	-	1/2"	OPEN STAINLESS STEEL HOSE REEL WITH HOSE AND HEAVY-DUTY FRONT TRIGGER WATER GUN, 5 GPM. ADJUSTABLE GUIDE ARM. HOSE SHALL HAVE A LOCKING MECHANISM TO ALLOW FOR LOCKING A T PREFERRED LENGTH. 35' HOSE, 300 PSI RATED, 3/8" CW INLET CONNECTION. MANUFACTURER: REGENCY ITEM NUMBER 600HRSS35FWG. MOUNT ABOVE SINK AS DIRECTED BY OWNER.
FD-1	FLOOR DRAIN	3"	-	-	-	ZURN EZ1, 5 INCH TOP ASSEMBLY ADJUSTABLE FLOOR DRAIN. PVC OR ABS SOLVENT WELD BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND TOP ASSEMBLY OR EQUAL. PROVIDE WITH SURE SEAL MODEL SS3009V & SS4009V INLINE FLOOR DRAIN TRAP SEAL. COMMERCIAL GRADE UV AND OZONE RESISTANT ABS PLASTIC HOUSING WITH PROPRIETARY EPDM RUBBER DIAPHRAGM AND SOFT RUBBER SEALING GASKET. FLOOR RATING ASSE - 1072 AF-GW.
HB-1	HOSE BIBB	-	-	-	1/2"	ANGLE SILL FAUCET WITH 3/8" THREADED CONNECTION (OUTLET TO MATCH CONNECTION TO RH-1) HEAVY PATTERN CAST BRASS, NICKEL PLATED, CAST ALUMINUM HANDLE. PRIER MODEL C135NP.50.
ECO	EXTERIOR CLEANOUT	-	-	-	-	EXTRA HEAVY CAST IRON ACCESS HOUSING WITH ADJUSTABLE ANCHOR FLANGE AND EXTRA HEAVY SECURED NON-SKID CAST IRON COVER WITH VANDAL PROOF SCREWS. CAST IRON CLEANOUT FERRULE WITH COUNTERSUNK BRASS CLEANOUT PLUG. SMITH FIGURE 4250 OR SIMILAR BY MIFAB OR ZURN. FULL SIZE OF PIPE AND NOT LESS THAN 4 INCHES FOR LARGER SIZES.
	WATER HAMMER ARRESTORS	SIZE PER PDI STANDARD-WH 201 TABLE 5				PERMANENTLY SEALED BELLOWS OR EXPANDING CHAMBER TYPE DEVICE FOR CONTROL OF WATER HAMMER, P.D.I. APPROVED. SMITH HYDROTROL OR SIMILAR BY JOSAM, MIFAB, WADE OR ZURN.

- NOTES:
 1 - PLUMBING FIXTURES AND EQUIPMENT ARE TO BE PROVIDED BY PLUMBING CONTRACTOR, UNLESS OTHERWISE NOTED.
 2 - VERIFY ALL PLUMBING FIXTURES WITH OWNER PRIOR TO ORDERING.

PLAN NOTES

1. EXTEND 3/4" CW & HW DOWN IN WALL TO 1/2" BRANCH PIPING TO SINK AND HOSE-BIBB.
2. EXTEND SANITARY PIPING TO EXTERIOR SANITARY PIPING, MINIMUM 3 INCH DIAMETER, SLOPE PIPE 1/4" PER 1' SLOPE.
3. EXTEND 1" CW & HW TO EXISTING 1" CW & HW PIPING RESPECTIVELY.
4. INSULATE ALL PIPING IN ATTIC, AND DOWN TO PLUMBING FIXTURES.
5. EXTEND NEW 1" DOMESTIC COLD WATER DOWN CORRIDOR, NEAR "STAFF TOILET ROOM", ABOVE CEILING TO EXISTING 1" DOMESTIC COLD WATER PIPING. PROVIDE SHUT-OFF VALVE AT CONNECTION TO EXISTING PIPING.
6. PROVIDE RETRACTABLE COLD WATER HOSE REEL ON WALL, ABOVE SINK. REFER TO ARCHITECTURAL DRAWINGS TO COORDINATE LOCATION OF HOSE REEL TO BE INSTALLED ON BLOCKING PROVIDING BY ARCHITECTURAL TRADES.

General Notes

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Issued For Bidding	5/1/24
No.	Revision/Issue
	Date

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Project Name and Address
 Proposed Quarantine Room:
 Lake Metroparks
 Penitentiary Glen Reservation
 Kevin P. Clinton Wildlife Center
 8668 Kirtland Chardon Rd., Kirtland, OH 44094

Project 202303	Sheet P1
Date	
Scale	

LUMINAIRE SCHEDULE								
TYPE	LUMINAIRE		LAMP TYPE	DESCRIPTION	MOUNTING	MANUFACTURER	CATALOG NUMBER	REMARKS
	WATTS	VOLTS						
A	43	120	LED 3,500K 5,000 LUMENS	4' STRIP WITH ROUND FROSTED LENS.	SURFACE	LITHONIA, OR EQUALS BY OTHERS	CSS L48 AL03 MVOLT SWW3 80CRI	
EM	2	120	LED	EMERGENCY BATTERY PACK WITH (2) LED LAMP HEADS, WHITE THERMOPLASTIC HOUSING, AND NICKEL CADMIUM BATTERY.	SURFACE / WALL	QUANTUM OR EQUALS BY OTHERS	ELM4L	1
RH	2	120	LED	EMERGENCY REMOTE HEAD WITH (2) LED LAMP HEADS, GRAY THERMOPLASTIC HOUSING, WET LOCATION LISTED.	SURFACE / WALL	QUANTUM OR EQUALS BY OTHERS	ERE-GY-T-RD-WP	1
X	2	120	LED	EXIT SIGN WITH WHITE THERMOPLASTIC HOUSING, RED STENCIL LETTERING, AND NICKEL CADMIUM BATTERY. ARROW DIRECTIONS AS INDICATED ON DRAWINGS.	CEILING / SURFACE / WALL	QUANTUM OR EQUALS BY OTHERS	LQM-S-3-R-MVOLT-ELN- SD	1
X2	4	120	LED	COMBINATION EXIT SIGN WITH (2) LED LAMP HEADS, WHITE THERMOPLASTIC HOUSING, RED STENCIL LETTERING, AND NICKEL CADMIUM BATTERY. ARROW DIRECTIONS AS INDICATED ON DRAWINGS.	CEILING / SURFACE / WALL	QUANTUM OR EQUALS BY OTHERS	LHQM-LED-R-HO	1

SCHEDULE REMARKS

- WIRE EXIT SIGNS AND EMERGENCY BATTERY PACKS AHEAD OF ALL LIGHTING CONTROLS.

MECHANICAL EQUIPMENT WIRING SCHEDULE													
ITEM NO.	EQUIPMENT	HP	KW	MCA	FLA	VOLTS	φ	CONNECTION BY EC	PANEL / CKT. NO.	CIRC BKR		WIRING AND CONDUIT	NOTES
										AMPS	POLES		
AHU-H	SPLIT SYSTEM - HEATING COIL	-	8	-	38.4	208	1	□ 60AS	A / 17,19	50	2	2-6 AWG & 1-10 AWG GND - 3/4" C.	
AHU-1	SPLIT SYSTEM - INDOOR UNIT	-	6.8	41	-	208	1	□ NEMA 3R 60AS	A / 13,15	45	2	2-6 AWG & 1-10 AWG GND - 3/4" C.	
HP-1	SPLIT SYSTEM - OUTDOOR UNIT	-	2	12	-	208	1	□ S	LPA / 2,4	20	2	2-12 AWG & 1-12 AWG GND - 3/4" C.	
HRV-1	HEAT RECOVERY VENTILATOR	-	0.6	6.4	-	120	1	□ S	LPA / 6	20	1	2-12 AWG & 1-12 AWG GND - 3/4" C.	②

SCHEDULE NOTES

- SINGLE POINT POWER CONNECTION. PROVIDE 30A NEMA 3R, NON-FUSED DISCONNECT FOR OUTDOOR UNIT, AND PROVIDE 20A NON-FUSED DISCONNECT FOR INDOOR UNIT. WIRE FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S REQUIREMENTS.
- OPERATION INTERLOCKED WITH FURNACE UNIT 'FUR-1'.

ELECTRICAL GENERAL NOTES

- THE ELECTRICAL INSTALLATION MUST MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE AND ANY APPLICABLE STATE OR LOCAL CODES, AS INTERPRETED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- CONFIRM THE CEILING TYPES IN ALL AREAS WITH THE GENERAL TRADES CONTRACTOR OR WITH THE EXISTING BUILDING CEILING CONDITIONS, AND FURNISH THE PROPER LIGHT FIXTURE TRIMS AND SUPPORTS TO SUIT EACH CEILING TYPE.
- ALL LIGHTING FIXTURE LOCATIONS INDICATED ON THIS DRAWING SHALL BE SUPERSEDED BY THE ARCHITECTURAL REFLECTED CEILING PLAN FOR THE AREA. ELECTRICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF LIGHT FIXTURES.
- ALL WALL MOUNTED LIGHTING FIXTURE LOCATIONS INDICATED ON THIS DRAWING SHALL HAVE THE MOUNTING HEIGHTS VERIFIED WITH THE ARCHITECT BEFORE ROUGH-IN.
- BRANCH CIRCUIT WIRING FOR EMERGENCY LIGHTING BATTERY PACKS AND EXIT LIGHTS SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH ARTICLE 700 OF THE NATIONAL ELECTRICAL CODE.
- THIS CONTRACTOR SHALL COORDINATE INSTALLATION OF AND MOUNTING OF ALL DUPLEX RECEPTACLES, TELEPHONE, DATA, OUTLETS, ETC., WITH ROOM ELEVATIONS AND ALL MILLWORK DRAWINGS BEFORE ROUGH-IN.
- ALL EXISTING UNUSED ELECTRICAL WIRE, CONDUIT, AND EQUIPMENT SHALL BE REMOVED.
- NOTE NOT USED.
- ALL WIRE FOR POWER, LIGHTING, AND CONTROL SYSTEMS SHALL BE 600 VOLT THHN-THWN, 90 DEGREE INSULATED AND SHALL BE COPPER. ALL WIRE FOR COMMUNICATIONS SYSTEMS SHALL BE COPPER.
- FIRE SEAL OPENINGS AROUND ALL CONDUIT PENETRATIONS. PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE SEALED WITH LISTED FIRE RATED MATERIALS.
- ALL HOMERUN WIRING SHALL BE RUN IN EMT THIN-WALL THREADLESS CONDUIT. TYPE MC CABLE MAY BE INSTALLED CONCEALED WITHIN WALL AND CEILING SPACES FOR BRANCH CIRCUIT WIRING.
- ALL ELECTRICAL EQUIPMENT SHALL BE U.L. LISTED OR LABELED.
- COORDINATE THE ELECTRICAL WORK WITH ALL TRADES ON SITE AND WITH THE OWNER'S REPRESENTATIVE. REFER TO THE PLANS AND DETAILS SHOWING THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND TECHNOLOGY WORK TO PROPERLY PLAN AND INSTALL THE ELECTRICAL SYSTEMS AND EQUIPMENT.

ELECTRICAL SYMBOLS

- BRANCH CIRCUIT HOMERUN TO PANEL "A". CIRCUIT #3 AND #5. PROVIDE THE PROPER QUANTITY OF 12 AWG CONDUCTORS FOR THE CIRCUIT(S) INDICATED. A SEPARATE GROUNDING CONDUCTOR IS REQUIRED FOR ALL BRANCH CIRCUITS.
- CONDUIT TURNED UP/CONDUIT TURNED DOWN
- HEAVY LINE WEIGHT INDICATES THIS EQUIPMENT IS NEW OR RELOCATED EXISTING UNLESS NOTED OTHERWISE
- LIGHT LINE WEIGHT INDICATES THIS EQUIPMENT IS EXISTING TO REMAIN, UNLESS NOTED OTHERWISE
- HEAVY DASHED LINE WEIGHT INDICATES EXISTING EQUIPMENT IS TO BE REMOVED UNLESS NOTED OTHERWISE
- SINGLE POLE SWITCH - MOUNTING AT 48" A.F.F.
- THREE-WAY SWITCH - MOUNTING AT 48" A.F.F.
- FOUR-WAY SWITCH - MOUNTING AT 48" A.F.F.
- OCCUPANCY SENSOR SWITCH WITH OVERRIDE SWITCH - WALL MOUNTED AT 48" A.F.F. OR AS NOTED
- OCCUPANCY SENSOR SWITCH - CEILING MOUNTED. PROVIDE ONE POWER PACK PER ZONE TO BE CONTROLLED. POWER PACKS ARE NOT SHOWN ON PLANS
- LIGHT FIXTURE TYPE 'A'
- LIGHT FIXTURE TYPE 'B'
- EXIT SIGN - CEILING MOUNTED. SHADING INDICATES LIGHTED FACE. ARROW INDICATES CHEVRON DIRECTION
- EXIT SIGN - WALL MOUNTED ABOVE DOOR OR AT 7'-6" A.F.F. UNLESS OTHERWISE NOTED
- EMERGENCY BATTERY PACK, WALL MOUNTED
- DUPLEX RECEPTACLE - MOUNTING AT 18" A.F.F.
- TWO DUPLEX RECEPTACLES MOUNTED IN A 2-GANG BOX AT 18" A.F.F. UNLESS OTHERWISE NOTED
- DUPLEX RECEPTACLE - INDICATES MOUNTING AT 48" A.F.F.
- DUPLEX RECEPTACLE - MOUNTING AT 6" ABOVE COUNTER
- DUPLEX RECEPTACLE - GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE
- GFCI TYPE DUPLEX RECEPTACLE IN WEATHERPROOF ENCLOSURE
- JUNCTION BOX - MOUNTING HEIGHT AND SIZE AS REQUIRED
- DATA OUTLET - MOUNTING AT 18" A.F.F.
- PANELBOARD - 0 TO 150 VOLTS TO GROUND
- DISTRIBUTION PANEL - 0 TO 150 VOLTS TO GROUND
- TRANSFORMER
- UNFUSED DISCONNECT SWITCH - "60/3" INDICATES 60 AMPERE SWITCH RATING AND POLES
- FUSED DISCONNECT SWITCH - "60AS" INDICATES 60 AMPERE SWITCH RATING AND POLES / "50AF" INDICATES 50 AMPERE FUSE
- ONE-LINE DIAGRAM REPRESENTATION OF A FUSED SWITCH - "60AS" INDICATES 60 AMPERE FUSIBLE SWITCH RATING, "50AF" INDICATES 50 AMPERE FUSE
- ONE-LINE DIAGRAM REPRESENTATION OF A MOLDED CASE CIRCUIT BREAKER - "60/3" INDICATES 60 AMPERE CIRCUIT BREAKER RATING AND POLES
- ONE-LINE DIAGRAM REPRESENTATION OF A TRANSFORMER, SIZE AS NOTED
- ONE-LINE DIAGRAM REPRESENTATION OF A METER
- PLAN NOTE TAG. REFER TO PLANS FOR DESCRIPTION
- INDICATES POWER CONNECTION TO AIR HANDLER #3-REFER TO EQUIPMENT CONNECTION SCHEDULES FOR REQUIREMENTS
- A.F.F. ABOVE FINISHED FLOOR
- AS/AF/AT AMPERE SWITCH/AMPERE FUSE/AMPERE TRIP
- MLO MAIN LUG ONLY
- MCB MAIN CIRCUIT BREAKER

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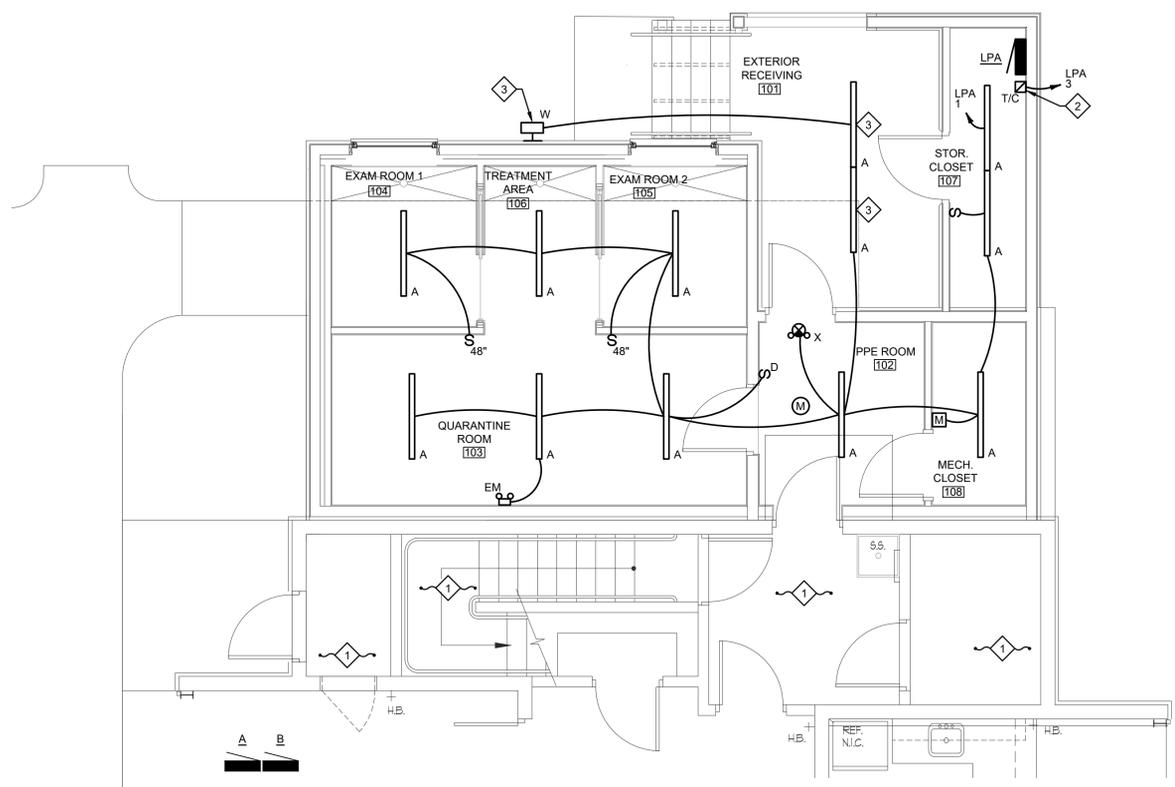
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1	Revision 1 Plan Review	7/8/24
	For Bid Only	5/1/24
No.	Revision/Issue	Date

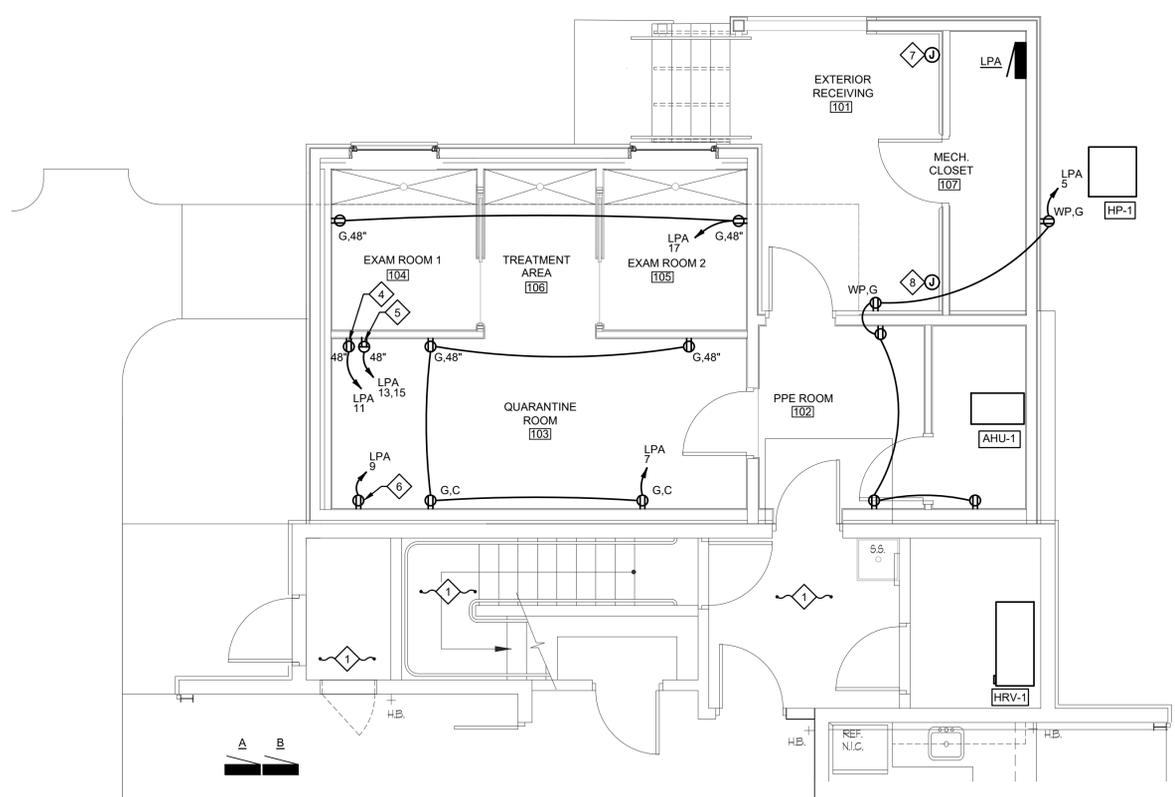
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Project Name and Address
Proposed Quarantine Room:
Lake Metroparks
Penitentiary Glen Reservation
Kevin P. Clinton Wildlife Center
8668 Kirtland Chardon Rd., Kirtland, OH 44094

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Scale Plan	



LIGHTING PLAN
SCALE: 1/4" = 1'-0"



POWER PLAN
SCALE: 1/4" = 1'-0"

PLAN NOTES

1. NO WORK IN THIS AREA, UNLESS OTHERWISE NOTED.
2. PROVIDE NEW ASTRONOMICAL, 4-CHANNEL TIMECLOCK TO BE INTERMATIC #ET2845C, OR EQUALS BY OTHERS.
3. FIXTURE CONTROLLED VIA TIMECLOCK OPERATION.
4. WASHER - 120V, 1.0KW.
5. ELECTRIC DRYER - 208V, 1PH, 5.0KW. PROVIDE NEMA 14-30R RECEPTACLE AND MATCHING PLUG. WIRING TO BE 4-10 AWG & 1-10 AWG GND - 3/4" CONDUIT.
6. MINI-REFRIGERATOR - 120V, 1.0KW. WIRE TO DEDICATED 120V, 20A GFCI RATED RECEPTACLE.
7. EXISTING 2022 FREEZER, REPAIR AND/OR EXTEND EXISTING BRANCH CIRCUIT WIRING & CONDUIT TO NEW LOCATION.
8. EXISTING 2018 FREEZER, REPAIR AND/OR EXTEND EXISTING BRANCH CIRCUIT WIRING & CONDUIT TO NEW LOCATION.

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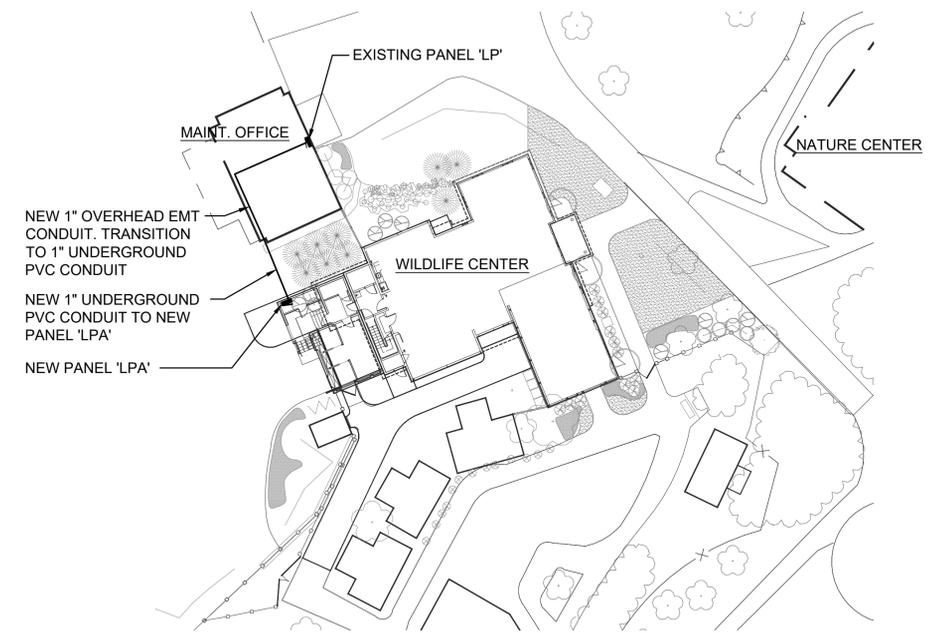
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ELECTRICAL SITE PLAN
NO SCALE

EXISTING CIRCUIT BREAKER PANEL SCHEDULE

PANEL A AMP 250 VOLTAGE 208/120V-3Ø-4W

INTERRUPTING CAPACITY 10,000 SPACES 42 AMPS RMS SYM 10,000 MAIN 225A M.C.B. MOUNTING FLUSH

LOAD DESCRIPTION	CONTINUOUS LOAD			NON-CONTINUOUS LOAD (60%)			RECEPTACLE LOAD			C/P / PHASE	C/T NO.	C/B / PHASE	NON-CONTINUOUS LOAD (60%)			CONTINUOUS LOAD			LOAD DESCRIPTION		
	ØA	ØB	ØC	ØA	ØB	ØC	ØA	ØB	ØC				ØA	ØB	ØC	ØA	ØB	ØC			
LOBBY REC.										20/1	1	A	2	20/1	0.7				LOBBY REC.		
ANIMAL RM LTS.	0.8									20/1	3	B	4	20/1		0.7			TRAGE RM REC.		
CLSRM LTS REC.		0.2								20/1	5	C	6	20/1		0.7			LOBBY REC.		
CLSRM REC.										20/1	7	A	8	20/1	0.4				MANAG OFFICE		
MECH RM REC.										30/1	9	B	10	20/1		0.7			CLSRM REC.		
CLSRM REC.		0.2								20/1	11	C	12	20/1				0.5	LOBBY LTS.		
AHU-1 (*)			3.4							45/2	13	A	14	20/1	0.3				NURSERY REC.		
				3.4						15	B	16	20/1				0.5		LAUNDRY LTS.		
AHU-H (*)		4.0								50/2	17	C	18	20/1		0.2			LAUNDRY REC.		
LOBBY REC (%)	4.0									19	A	20	20/1						SPARE		
FURNACE #4										20/1	21	B	22	20/1	0.4				CLSRM REC.		
BATHROOM										20/1	23	C	24	20/1			0.5		UNIT F-1		
PANEL C										20/1	25	A	26	20/1			0.2		LOBBY SECURITY		
UNIT F-4										100/2	27	B	28	20/1					CLINIC HALL REC.		
UNIT F-3										29	C	30	20/1					0.2	FURNACE RM LTS.		
UNIT F-2										15/1	31	A	32				2.9		HVAC - EXTERIOR UNIT		
DRYER										15/1	33	B	34	30/3			2.9				
										15/1	35	C	36								
										37	A	38				3.6		6.4			
										39	B	40	100/3			2.7		2.8			
										41	C	42				3.2		4.1			
SPACE										4						4.1		6.5			
	4.0	0.8	4.4	6.4	11.6	0.7	1.1	0.7	0.5	KW SUB-TOTALS KW			5.0	4.7	4.1	0.4	2.8	4.6	9.2	10.7	10.0

CONNECTED LOAD PER PHASE

PHASE A	26.1	KWC
	217.5	AMPS
PHASE B	31.3	KWC
	261.2	AMPS
PHASE C	30.4	KWC
	253.5	AMPS

TOTAL CONNECTED LOAD

TOTAL CONNECTED LOAD	87.9	KWC
	243.9	AMPS

TOTAL DEMAND LOAD

TOTAL DEMAND LOAD	71.8	KWD
	199.3	AMPS

SCHEDULE REMARKS:

ALL LOADS ARE EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.

(*) NEW LOAD. PROVIDE NEW CIRCUIT BREAKER, SIZE AS INDICATED.

(%) RELOCATED LOAD FROM CIRCUIT #19.

EXISTING CIRCUIT BREAKER PANEL SCHEDULE

PANEL LP AMP 200 VOLTAGE 120/208V-1Ø-3W

INTERRUPTING CAPACITY 10,000 SPACES 40 AMPS RMS SYM 10,000 MAIN 200A M.C.B. MOUNTING SURFACE

LOAD DESCRIPTION	CONTINUOUS LOAD			NON-CONTINUOUS LOAD (50%)			RECEPTACLE LOAD			C/P / PHASE	C/T NO.	C/B / PHASE	NON-CONTINUOUS LOAD (50%)			CONTINUOUS LOAD			LOAD DESCRIPTION	
	ØA	ØB	ØC	ØA	ØB	ØC	ØA	ØB	ØC				ØA	ØB	ØC	ØA	ØB	ØC		
AC UNIT	2.5									20/2	1	A	2						SPACE	
		2.5								3	B	4							SPACE	
SEPTIC SYSTEM ALARM										30/2	5	A	6	50/2			3.0		EXISTING LOAD	
SPACE										9	A	10							SPACE	
SPACE										11	B	12							SPACE	
SHOP LTS, PNL REC	0.5									20/1	13	A	14	20/1	0.2				BATHRM GFCI	
OFFICE REC										0.7	20/1	15	B	16	20/1			0.8	ICE MACHINE	
SPARE REC										20/1	17	A	18	20/1					SPACE	
REC.										0.7	20/1	19	B	20	20/1				SPACE	
FURNACE										20/1	21	A	22	20/1				0.2	ATTIC LTS.	
SPARE										50/2	23	B	24						SPACE	
										25	A	26	20/1	0.4			1.0		MICROWAVE / REC.	
SPARE										30/2	27	B	28	20/1				0.2	BTHRM JAN LTS.	
										29	A	30							SPACE	
FRIDGE										20/1	31	B	32						SPACE	
SPARE										20/1	33	A	34						SPACE	
WATER HEATER										30/2	35	B	36						SPACE	
										37	A	38				1.1		4.9	1.0	NEW PANEL 'LPA'
SPACE										39	B	40	60/2			0.7		3.5	1.2	
	3.0	2.5	5.3	5.5	0.2	1.4	KW SUB-TOTALS KW			1.6	0.7	8.9	7.3	1.2	1.4					

CONNECTED LOAD PER PHASE

PHASE A	20.2	KWC
	168.2	AMPS
PHASE B	18.9	KWC
	157.2	AMPS

TOTAL CONNECTED LOAD

TOTAL CONNECTED LOAD	39.0	KWC
	187.7	AMPS

TOTAL DEMAND LOAD

TOTAL DEMAND LOAD	25.6	KWD
	122.8	AMPS

SCHEDULE REMARKS

ALL LOADS ARE EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.

(*) NEW LOAD. PROVIDE NEW CIRCUIT BREAKER.

CIRCUIT BREAKER PANEL SCHEDULE

PANEL LPA AMP 60 VOLTAGE 120/208V-1Ø-3W

INTERRUPTING CAPACITY 10,000 SPACES 24 AMPS RMS SYM 10,000 MAIN 60A M.C.B. MOUNTING SURFACE

LOAD DESCRIPTION	CONTINUOUS LOAD			NON-CONTINUOUS LOAD (50%)			RECEPTACLE LOAD			C/P / PHASE	C/T NO.	C/B / PHASE	NON-CONTINUOUS LOAD (50%)			CONTINUOUS LOAD			LOAD DESCRIPTION	
	ØA	ØB	ØC	ØA	ØB	ØC	ØA	ØB	ØC				ØA	ØB	ØC	ØA	ØB	ØC		
LTS										20/1	1	A	2						1.0	HP-1
TIMELOCK										20/1	3	B	4						1.0	
PRE ROOM REC.		0.2								20/1	5	A	6	20/1					1.4	HRV-1
QUARANTINE RM										0.7	20/1	7	B	8	20/1					SPARE
FRIDGE (#)										1.0	20/1	9	A	10	20/1					SPARE
WASHER (#)										1.0	20/1	11	B	12	20/1					SPARE
										2.5	13	A	14	20/1						SPARE
ELEC DRYER (#)										2.5	40/2	15	B	16	20/1					SPARE
EXAM ROOM REC.										0.4	20/1	17	A	18	20/1					SPARE
SPARE										20/1	19	B	20	20/1						SPARE
SPARE										20/1	21	A	22	20/1						SPARE
SPARE										20/1	23	B	24	20/1						SPARE
	0.2	3.5	3.5	1.1	0.7	KW SUB-TOTALS KW			1.4	1.0	1.0									

CONNECTED LOAD PER PHASE

PHASE A	7.0	KWC
	58.0	AMPS
PHASE B	5.4	KWC
	45.2	AMPS

TOTAL CONNECTED LOAD

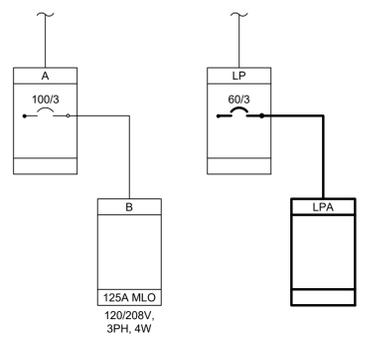
TOTAL CONNECTED LOAD	12.4	KWC
	59.5	AMPS

TOTAL DEMAND LOAD

TOTAL DEMAND LOAD	8.2	KWD
	39.4	AMPS

SCHEDULE REMARKS

(#) PROVIDE GFCI RATED CIRCUIT BREAKER.



PARTIAL ONE LINE DIAGRAM
NO SCALE

NOTE: ALL DISCONNECT SWITCHES, PANELBOARDS, TRANSFORMERS AND ASSOCIATED FEEDERS & CONDUIT ARE EXISTING TO REMAIN, UNLESS OTHERWISE NOTED. ONE LINE DIAGRAM SHOWN FOR REFERENCE ONLY.

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