GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT

TERMINAL INTERIOR RENOVATION

140 N VALLEY ROAD, XENIA, OH 045385

ISSUED FOR BID
FEBRUARY 2023

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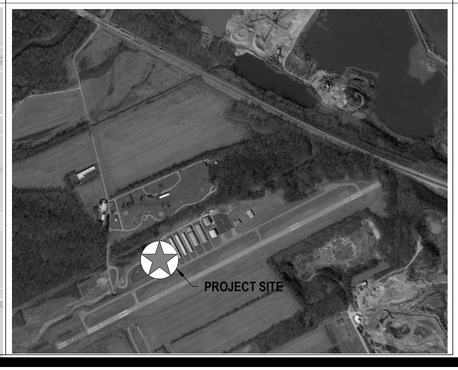
PROJECT INFORMATION

PROJECT LOCATION:	140 N VALLEY ROAD, XENIA, OH 45385
PROJECT NAME:	GREENE COUNTY INTERIOR TERMINAL I19 RENOVATION
GOVERNING BUILDING CODE:	2017 OHIO BUILDING CODE (2015 INTERNATIONAL BUILDING CODE) 2017 OHIO FIRE CODE (2015 INTERNATIONAL FIRE CODE)
PROJECT TYPE:	INTERIOR RENOVATION

LOCATION MAP

VICINITY MAP



PROJECT TEAM

WOOLPERT
ARCHITECTURE | ENGINEERING | GEOSPATIAL

ARCHITECTURAL	MECHANICAL	ELECTRICAL
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
STATE OF OHIO Jill M. Elder 02.20.23 ARC.1917677 REGISTERED ARCHITECT	STATE OF OHIO DOUGLAS S. THOMA E-68159 REGISTERED PROFESSIONAL ENGINEER	STATE OF OHIO ROBERT D VOISARD E-79035 REGISTERED PROFESSIONAL ENGINEER
Jill Elder 02.20.23	Douglas Thoma 02/20/2023	Robert Voisard 02/20/2023
(NAME AND LICENSE)	**(NAME AND LICENSE)**	**(NAME AND LICENSE)**

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SUBMITTAL

PRELIMINARY
NOT FOR CONSTRUCTION

ISSUANCE SCHEDULE

NUMBER	DESCRIPTION	DATE

GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT
INTERIOR TERMINAL I19 RENOVATION
140 N. VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 02/20/2023

DESIGNED BY: F. HEISTERKAMP
DRAWN BY: F. HEISTERKAMP
CHECKED BY: J. ELDER

SHEET NAME:
COVER SHEET

SHEET NO:
G-001

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO ALL GOVERNING CODES.
2. ALL CONTRACTORS SUBMITTING BID PROPOSALS FOR THIS PROJECT ARE REQUIRED TO VISIT THE SITE PRIOR TO BIDDING TO VERIFY EXISTING CONDITIONS AND FEASIBILITY OF DESIGN INTENT OF THESE CONSTRUCTION DOCUMENTS (CONSTRUCTION DRAWINGS AND SPECIFICATIONS). ANY VARIATION IN SITE CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE CONTRACTING OFFICER OR OWNER'S REPRESENTATIVE'S ATTENTION IN WRITING IMMEDIATELY AND (5) BUSINESS DAYS PRIOR TO BID DATE. THE SUBMISSION OF BID PROPOSAL'S SHALL BE CONSIDERED EVIDENCE THAT THE CONTRACTOR HAS VISITED THE SITE, VERIFIED ITS CONDITIONS AND IS PREPARED TO PERFORM WORK AS INTENDED IN THESE DOCUMENTS. NO EXTRA PAYMENT'S SHALL BE ALLOWED DUE TO THE CONTRACTORS CLAIMS FOR EXTRA WORK REQUIRED BY THEIR FAILURE TO VISIT THE SITE.
3. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE CONTRACTING OFFICER OR OWNER'S REPRESENTATIVE BEFORE CONTINUING WITH THE WORK.
4. EACH CONTRACTOR IS RESPONSIBLE FOR COORDINATING THEIR WORK WITH ALL SURROUNDING CONSTRUCTION ELEMENTS AND TRADES AFFECTED.
5. EACH CONTRACTOR IS RESPONSIBLE FOR CREATING ALL OPENINGS, PENETRATIONS, LINTELS, ETC. AS REQUIRED TO PERFORM THEIR PORTION OF WORK. AT FIRE RATED PARTITIONS, CLOSE OPENINGS / PENETRATIONS / ETC. WITH FIRESTOPPING THAT MATCHES OR EXCEEDS THE PARTITION RATING.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR THE COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS AS REQUIRED TO PERFORM THE WORK AS CALLED FOR, SHOWN AND REASONABLY IMPLIED IN THE CONTRACT DOCUMENTS.
7. ASBESTOS CONTAINING MATERIALS SHALL NOT BE USED ON ANY PROJECT.
8. FINISH AND PAINT WALLS BEFORE INSTALLING CASEWORK, EQUIPMENT, FIXTURES, ELEC. PANELS, BOXES, SURFACE CONDUIT, ETC., IF APPLICABLE.
9. CONTRACTOR TO INSTALL WOOD OR METAL BLOCKING FOR ALL CASEWORK, EQUIPMENT, HANDRAILS, RESTROOM ACCESSORIES, FIXTURES, ETC. AS RECOMMENDED BY MANUFACTURER, IF NOT OTHERWISE SHOWN HEREIN.
10. IF DISCREPANCIES BETWEEN PLANS OR SPECIFICATIONS OCCUR THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER OR OWNER'S REPRESENTATIVE. TREAT ANYTHING MENTIONED IN THE SPECIFICATIONS BUT NOT SHOWN ON THE DRAWINGS OR SHOWN ON THE DRAWINGS BUT NOT INCLUDED IN THE SPECIFICATIONS AS IF SHOWN OR MENTIONED IN BOTH. IF DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE SPECIFICATIONS TAKE PRECEDENCE.
11. FOR INSTALLATION OF ALL WORK WHICH IS DEPENDENT ON CONDITION OF SUBSTRATE, CAREFULLY INSPECT AND VERIFY SUITABILITY OF SUBSTRATE FOR INSTALLATION OF WORK. DO NOT INSTALL WORK OVER UNSUITABLE OR UNACCEPTABLE SUBSTRATES. CORRECT UNACCEPTABLE SUBSTRATES BEFORE INSTALLING WORK. CONTRACTOR IS RESPONSIBLE FOR ALL GRINDING, LEVELING, SANDING, PATCHING, ETC. TO CORRECT ALL EXISTING SURFACES TO PREPARE FOR NEW FINISHES.
12. MOUNTING HEIGHTS OF ELECTRICAL, PLUMBING, MECHANICAL, AND OTHER DEVICES SHALL COMPLY WITH HEIGHTS INDICATED ON DRAWINGS. NOTIFY CONTRACTING OFFICER OR OWNER'S REPRESENTATIVE IF CONFLICTS ARE ENCOUNTERED.
13. ALL EXPOSED METAL, METAL DECK, STRUCTURAL, BAR JOISTS, CONDUITS, PIPES, ANGLES, BRACKETS, DUCT, ETC. SHALL NOT BE PAINTED UNLESS NOTED OTHERWISE.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY EXISTING ANCHORS, BRACKETS, ETC. AND PATCH LIKE NEW BEFORE INSTALLING NEW FINISHES.
15. FIRECAULK ALL PENETRATIONS IN GYPSUM BOARD WHERE IT ACTS AS A THERMAL BARRIER TO ISOLATE SPRAY-IN FOAM INSULATION FROM INSIDE OF BUILDING.
16. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO ORDERING OR FABRICATION OF MATERIALS OR THE BEGINNING OF CONSTRUCTION. NOTIFY ARCHITECT AND OWNER REPRESENTATIVE OF ALL DISCREPANCIES. ALL WORK REQUIRING MEASURING TO BE DONE ACCORDING TO FIGURES ON DRAWINGS. DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND DRAWINGS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND OWNER REPRESENTATIVE. CONTRACTOR TO SUBMIT SPECIFIC DISCREPANCY FOR ARCHITECT REVIEW, PRIOR TO COMMENCING WITH THE WORK IN QUESTION.
17. THE CONTRACTOR SHALL ARRANGE FOR THE PREMISES TO BE MAINTAINED IN AN ORDERLY MANNER, FREE OF DUST AND DEBRIS,THROUGHOUT THE COURSE OF THE WORK. PROVIDE AND MAINTAIN TEMPORARY BARRICADES AS REQUIRED TO PROTECT THE PUBLIC AND OWNERS PERSONNEL DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STRUCTURE OR EQUIPMENT. ANY SUCH DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
18. CONTRACTOR SHALL PROVIDE DAILY OR MORE FREQUENT GENERAL CLEAN UP IN COMPLIANCE WITH OWNER'S REQUIREMENTS OF AREAS WITHIN THE LIMITS OF CONSTRUCTION, AND FINAL CLEAN UP AT CONCLUSION OF WORK.
19. CONTRACTOR TO REVIEW OTHER DRAWINGS ISSUED FOR THIS PROJECT FOR ADDITIONAL INFORMATION FROM OTHER TRADES TO COORDINATE THE REQUIRED SCOPE OF WORK.
20. INTERIOR DIMENSIONS ARE TO FACE OF EXTERIOR STUD, FACE OF MASONRY, FACE OF CONCRETE, CENTERLINE OF COLUMNS, OR FACE OF INTERIOR STUD UNLESS OTHERWISE NOTED.
21. ALL MATERIALS, FIXTURES AND EQUIPMENT INDICATED IN THE CONSTRUCTION DOCUMENTS SHALL BE NEW AND AS SPECIFIED, UNLESS IDENTIFIED OTHERWISE.
22. ALL NEW FINISHED AND PATCHED SURFACES SHALL BE SMOOTH, CONTINUOUSLY FREE OF IMPERFECTIONS AND IN PROPER CONDITION TO RECEIVE THE SPECIFIED FINISH. PATCHED AREAS SHALL MATCH THE ADJACENT MATERIALS CONSTRUCTION AND FINISH.
23. ALL FLOORS ON EITHER SIDE OF A DOORWAY OR OPENING SHALL BE LEVEL AND HAVE MAXIMUM ELEVATION DIFFERENCE OR THRESHOLD HEIGHT OF 1/2".
24. DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE 4" FROM THE FACE OF STUD TO FACE OF STUD OF DOOR FRAME JAMB UNLESS NOTED OTHERWISE.
25. DOOR SIZES, STYLES, AND SPECIFICATIONS, ROUGH OPENING SIZES AND EXACT LOCATIONS TO BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE ORDERING AND BEFORE CONSTRUCTION BEGINS.
26. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS AND CEILINGS TO BE SEALED WITH PROPER APPROVED MATERIALS TO THE FULL THICKNESS OF THE CONSTRUCTION ELEMENTS.
27. FIRE STOP ALL FLOORS, WALLS AND CEILINGS AS REQUIRED BY APPLICABLE CODE.
28. ALL WOOD BLOCKING IN INTERIOR WALLS TO BE FIRE RETARDANT TREATED IN ACCORDANCE WITH SPECIFICATIONS.
29. INSTALL SEALANT AT EXTERIOR SIDE OF ALL JOINTS, SEAMS, CONNECTIONS OR OPENINGS WHICH WOULD ALLOW WATER OR AIR INFILTRATION EXCEPT AS NOTED OTHERWISE. SEALANT COLOR TO MATCH ARCHITECT'S SAMPLE. COLOR REQUIRES ARCHITECT'S APPROVAL.
30. PROVIDE FIRE EXTINGUISHER COMPLYING WITH NFPA 10, AS INDICATED ON LIFE SAFETY DRAWINGS WITH MAX TRAVEL DISTANCE OF 75'.
31. THE LOCATIONS OF EXISTING UTILITIES HAVE BEEN PREPARED FROM DOCUMENTS PROVIDED BY THE OWNER AND MAY NOT REPRESENT THE ACTUAL FIELD CONDITIONS. CONTRACTOR TO REVIEW ALL OWNER DOCUMENTS AND BECOME FAMILIAR WITH ALL EXISTING UTILITIES. THE CONTRACTOR HAS THE RESPONSIBILITY TO VERIFY LOCATIONS IN THE FIELD BY EMPLOYING FIELD UTILITY LOCATING SERVICES BEFORE CONSTRUCTION STARTS, AND COORDINATE ALL NEW UTILITY LOCATIONS, CONNECTIONS AND PENETRATIONS.
32. THE SUBCONTRACTOR SHALL VERIFY AND COORDINATE, WITH ALL TRADES, THE SIZES AND LOCATIONS OF ALL OPENINGS FOR MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT, EQUIPMENT PADS, OR BASES AS WELL AS POWER, WATER, AND DRAIN INSTALLATIONS BEFORE PROCEEDING WITH WORK. SUBCONTRACTOR SHALL PROVIDE COORDINATION DRAWINGS FOR PROPER PLACEMENT OF ALL TRADES' WORK. ALL CONCERNS, SPACE LIMITATIONS OR STRUCTURAL CONFLICTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT, PRIOR TO COMMENCING WITH THE WORK IN QUESTION.
33. IT IS THE SUBCONTRACTOR'S RESPONSIBILITY TO COORDINATE AND LOCATE ELECTRICAL, DATA, AND PHONE RECEPTACLES, SWITCHES, ETC. TO AVOID CONFLICTS WITH CASEWORK, DOORS, AND OTHER TRADES.

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INTERIOR TERMINAL I19 RENOVATION

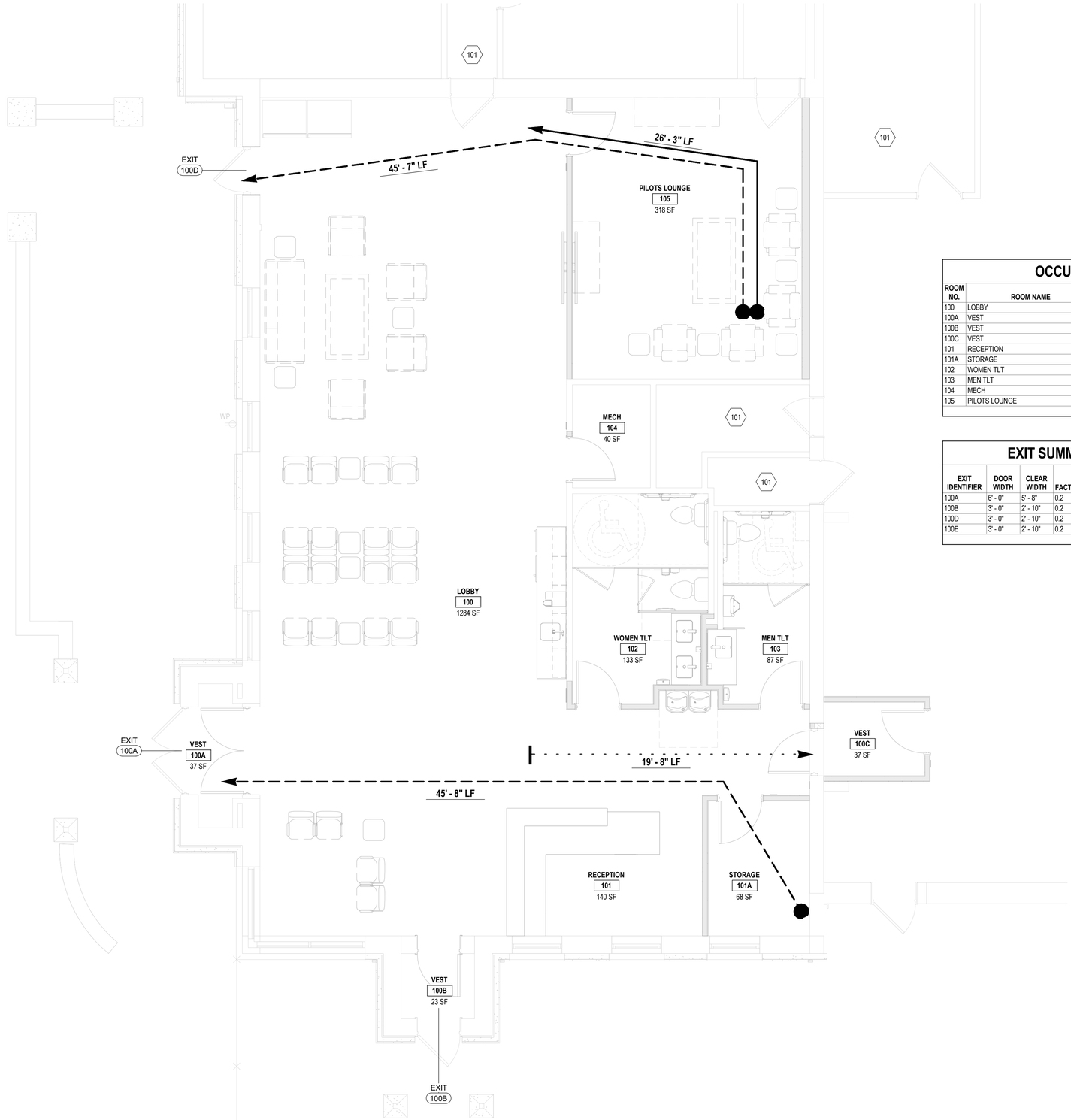
140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 02/20/2023

DESIGNED BY: F. HEISTERKAMP
DRAWN BY: F. HEISTERKAMP
CHECKED BY: J. ELDER

SHEET NAME:
GENERAL NOTES

SHEET NO:
G-002



A1 LIFE SAFETY PLAN
1/4" = 1'-0"

OCCUPANT LOAD

ROOM NO.	ROOM NAME	AREA	OCCUPANCY LOAD FACTOR	OCCUPANT LOAD
100	LOBBY	1284 SF	15	86
100A	VEST	37 SF	0	0
100B	VEST	23 SF	0	0
100C	VEST	37 SF	0	0
101	RECEPTION	140 SF	150	1
101A	STORAGE	68 SF	300	1
102	WOMEN TLT	133 SF	0	0
103	MEN TLT	87 SF	0	0
104	MECH	40 SF	300	1
105	PILOTS LOUNGE	318 SF	15	22
				111

EXIT SUMMARY

EXIT IDENTIFIER	DOOR WIDTH	CLEAR WIDTH	FACTOR	DOOR CAPACITY (PERSONS)	ACTUAL USE (PERSONS)
100A	6' - 0"	5' - 8"	0.2	340	55
100B	3' - 0"	2' - 10"	0.2	170	36
100D	3' - 0"	2' - 10"	0.2	170	20
100E	3' - 0"	2' - 10"	0.2	170	36
					147

GENERAL NOTES:

A. ALL WALLS DESIGNATED AS FIRE RATED OR RPS (RESIST THE PASSAGE OF SMOKE) PARTITIONS SHALL EXTEND TO THE UNDERSIDE OF ROOF OR FLOOR DECK ABOVE. PROVIDE SPECIFIED FIRE SAFING MATERIAL AT ALL VOIDS AND PENETRATIONS.
B. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED AND SEALED AS REQUIRED TO MAINTAIN INTEGRITY OF THE FIRE RATED ASSEMBLY.

SHEET KEYNOTES:

101	NO WORK, EXISTING TO REMAIN

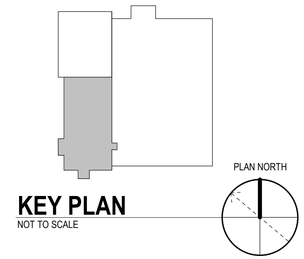
LEGEND:

TRAVEL DISTANCE

COMMON PATH DISTANCE

DEAD-END DISTANCE

EXIT 100C.2 — EXIT IDENTIFIER



KEY PLAN
NOT TO SCALE

GRAPHIC SCALE
1/4"=1'-0"
0 2' 4' 8' 12'

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INTERIOR TERMINAL I19 RENOVATION

140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 02/20/2023

DESIGNED BY: J. ZIMMERMAN
DRAWN BY: C. LEIDENHEIMER
CHECKED BY: J. ELDER

SHEET NAME:
LIFE SAFETY PLAN

SHEET NO:
LS-101

ABBREVIATIONS

SYMBOLS

&	AND
∠	ANGLE
@	AT
℄	CENTER LINE
∅	DIAMETER
⊏	CHANNEL

A

ACOUS	ACOUSTICAL
ACP	ACOUSTICAL PANEL
ACPL	ACOUSTICAL PLASTER
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHR	ANCHOR
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATELY
AP	ACOUSTICAL PANEL
APC	ACOUSTICAL PANEL CEILING
APT	ACCENT PAINT
ATTEN	ATTENUATION

B

BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BM	BEAM
BMD	BOTTOM OF METAL DECK
BOD	BOTTOM OF DECK
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BSMT	BASEMENT

C

CAB	CABINET
CB	CATCH BASIN
CEM	CEMENT
CEM PLAS	CEMENT PLASTER
CER	CERAMIC
CG	CORNER GUARD
CJ	CONTROL JOINT
CLG	CEILING
CM	CERAMIC MOSAIC
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CPT	CARPET
CR	COLD ROLLED
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CTW	CERAMIC TILE WAINSCOT

D

DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DWG	DRAWING

E

E	EAST
EA	EACH
EG	EDGE GUARD
EH	ELECTRIC HEATER
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATION
ENAM	ENAMEL
EPT	EPOXY PAINT
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPANSION
EXP	EXPOSED STRUCTURE
EXT	EXTERIOR

F

FD	FLOOR DRAIN
FDTN	FOUNDATION

F Cont'd.

FEC	FIRE EXTINGUISHER CABINET
FH	FLAT HEAD
FIN	FINISH
FLR	FLOOR
FLUOR	FLUORESCENT
F.PRG	FIREPROOFING
FR	FRAME
FRT	FIRE RETARDANT TREATED
FSEP	FOOD SERVICE EQUIPMENT PROVIDER
FT	FOOT
FTG	FOOTING
FV	FIELD VERIFY

G

G	GROUND
G BLK	GLAZED BLOCK
GA	GAUGE
GALV	GALVANIZED
GB	GYPSUM BOARD
GC	GENERAL CONTRACTOR
GEN	GENERAL
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GI	GALVANIZED IRON
GL	GLASS
GL BLK	GLASS BLOCK
GS	GROUT SOLID
GT	GLAZED TILE
GT	GROUT
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTER

H

HC	HOLLOW CORE
HD	HEAD
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HT	HEIGHT

I

ID	INSIDE DIAMETER
IN	INCH
INSUL	INSULATION
INT	INTERIOR
INV	INVERT

J

JAN	JANITOR
JT	JOINT
J-BOX	JUNCTION BOX

K

KIT	KITCHEN
KPL	KICKPLATE

L

LAM	LAMINATE
LAV	LAVATORY
LINO	LINOLEUM
LT WT	LIGHT WEIGHT
LVR	LOUVER

M

MACH	MACHINE
MAX	MAXIMUM
MB	MARKER BOARD
MB/MR	MARKER BOARD/MAP RAIL
MECH	MECHANICAL
MFR	MANUFACTURER
MGB	MOISTURE GYPSUM BOARD
MGYP BD	MOISTURE GYPSUM BOARD
MH	MAN HOLE
MIN	MINIMUM
MIRR	MIRROR
MR	MOISTURE RESISTANT
MO	MASONRY OPENING
MTL	METAL
MULL	MULLION

N

N	NORTH
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE

O

OC	ON CENTER
OH	OVERHANG
OHD	OVERHEAD DOOR
OD	OUTSIDE DIAMETER
OPNG	OPENING
OP	OPERABLE PARTITION
OPP	OPPOSITE

P

PC	PRECAST CONCRETE
PL	PLATE
PEMB	PRE-ENGINEERED METAL BUILDING
PLAS	PLASTER
PLYWD	PLYWOOD
PORC	PORCELAIN
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PVC	POLYVINYL CHLORIDE

Q

QT	QUARRY TILE

R

R	RADIUS
R	RISERS
RB	RESILIENT BASE
RBR	RUBBER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECESSED
REF	REFERENCE
REINF	REINFORCED
REQD	REQUIRED
RES	RESISTANT
RESIL	RESILIENT
RET	RETAINING
RM	ROOM
RO	ROUGH OPENING

S

S	SOUTH
SC	SEALED CONCRETE
SCHED	SCHEDULE
SCW	SOLID CORE WOOD
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SKF	SPECIALTY KITCHEN FLOORING
SLNT	SEALANT
SPEC	SPECIFICATION
SQ	SQUARE
SRB	STAIR RUBBER BASE
SSMR	STANDING SEAM METAL ROOF
SST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STUC	STUCCO
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL

T

T	TREADS
T & B	TOP AND BOTTOM
T & G	TONGUE AND GROOVE
TB	TACK BOARD
TEL	TELEPHONE
TER	TERRAZZO
TFF	TO FINISHED FACE
TOC	TOP OF CONCRETE
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOW	TOP OF WALL
THRU	THROUGH
TS	TACK STRIP
TTD	TOILET TISSUE DIPENSER
TYP	TYPICAL

U

UR	URINAL
UNO	UNLESS NOTED OTHERWISE

V

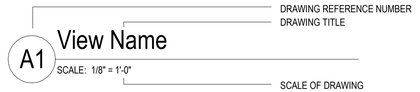
VCP	VITRIFIED CLAY PIPE
VCT	VINYL COMPOSITION TILE
VET	VINYL ENHANCED TILE
VERT	VERTICAL
VWB	VENTED WALL BASE
VWC	VINYL WALL COVERING

W

W	WEST
W/	WITH
WC	WATER CLOSET
WD	WOOD
WF	WIDE FLANGE
WDP	WOOD PANELING
WR	WATER-RESISTANT
WP	WATERPROOF
WWF	WELDED WIRE FABRIC

REFERENCE SYMBOLS

DRAWING TITLE

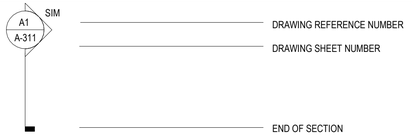


EXTERIOR ELEVATIONS

INTERIOR ELEVATIONS

BUILDING SECTION

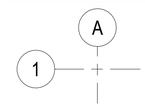
WALL SECTION



DETAIL/ENLARGED PLAN

DRAWING SYMBOLS

COLUMN GRID LINES

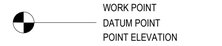


MISCELLANEOUS SYMBOLS

F.D.	FLOOR DRAIN
R.D.	ROOF DRAIN
	CHANGE IN ELEVATION

ROOM SYMBOL

GRAPHIC SYMBOLS



DOOR SYMBOL

REVISION

WALL TYPE

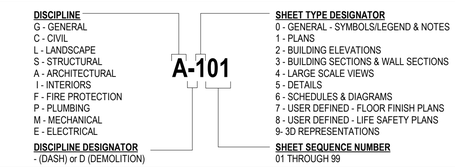
MATCH LINE

WINDOW TAG

KEY NOTE

ACCESSORY

SHEET NUMBERING SYSTEM



MATERIAL SYMBOLS

EARTHWORK

CONCRETE

MASONRY

STONE

METAL

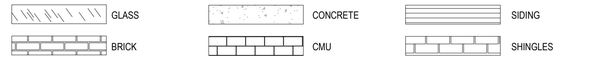
WOOD

GLASS

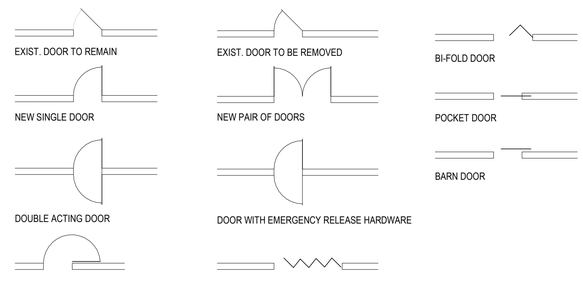
INSULATION

FINISHES

ELEVATION INDICATIONS



DOOR CONVENTIONS



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ISSUANCE SCHEDULE

NUMBER	DESCRIPTION	DATE

GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT

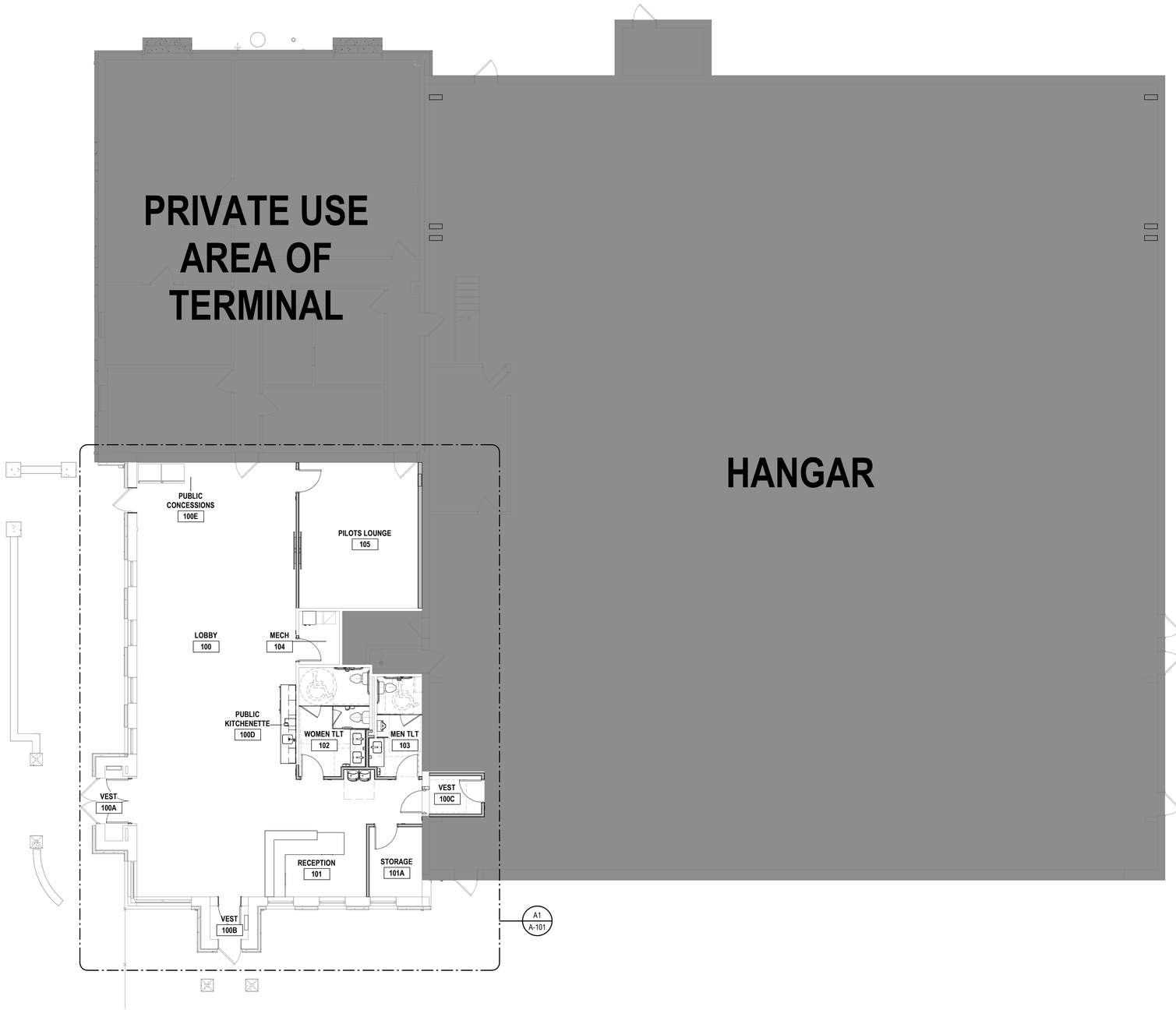
INTERIOR TERMINAL I19 RENOVATION

140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 02/20/2023
DESIGNED BY: F. HEISTERKAMP
DRAWN BY: F. HEISTERKAMP
CHECKED BY: K. BARKER

SHEET NAME:
SYMBOLS AND ABBREVIATIONS

SHEET NO:
A-001

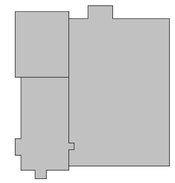


A1 RENOVATION PLAN
1/8" = 1'-0"

LEGEND:

NO RENOVATION

RENOVATION



KEY PLAN
NOT TO SCALE

PLAN NORTH

GRAPHIC SCALE
1/8"=1'-0"
0 4' 8' 16' 24'

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NUMBER	DATE	DESCRIPTION

GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT

INTERIOR TERMINAL I19 RENOVATION

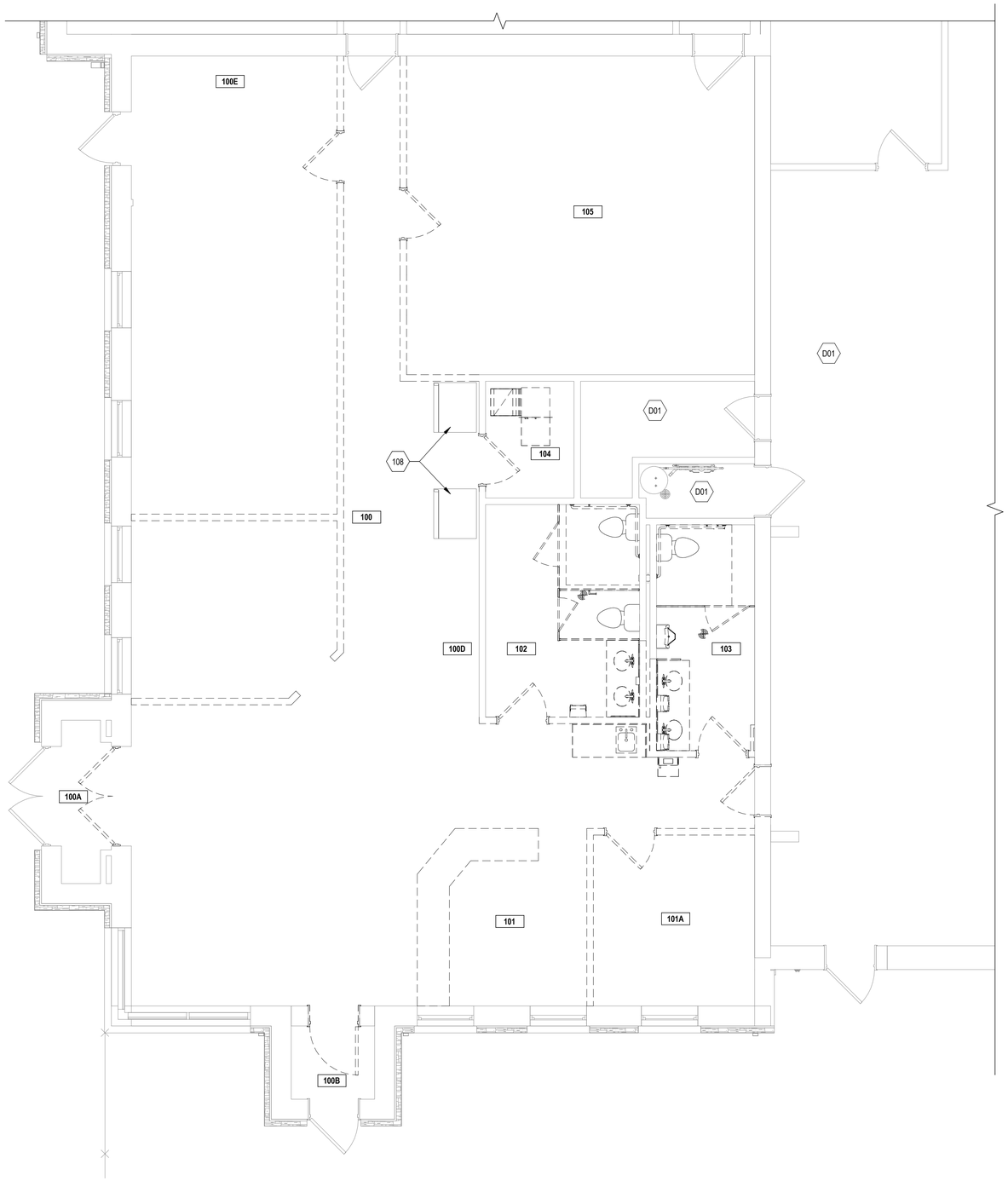
140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 02/20/2023

DESIGNED BY: F. HEISTERKAMP
DRAWN BY: F. HEISTERKAMP
CHECKED BY: K. BARKER

SHEET NAME:
RENOVATION PLAN

SHEET NO:
A-002



A1 FLOOR PLAN - DEMOLITION
1/4" = 1'-0"

GENERAL NOTES:

A. ALL DIMENSIONS TO BE VERIFIED IN FIELD PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF ALL DISCREPANCIES PRIOR TO STARTING WORK.
B. ALL EXISTING MATERIALS TO REMAIN WHICH ARE DAMAGED OR OTHERWISE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE PATCHED AND REPAIRED TO MATCH EXISTING ADJACENT MATERIALS SO THAT REPAIR IS IMPERCEPTIBLE.
C. REFER TO MEP DRAWINGS FOR OTHER DISCIPLINE DEMOLITION SCOPE OF WORK.
D. CONTRACTOR SHALL MAINTAIN ALL REQUIRED EXITS UNOBSTRUCTED, ILLUMINATED AND PROTECTED FROM CONSTRUCTION ACTIVITIES.
E. CONTRACTOR TO CLEAN AREAS ADJACENT TO DEMOLITION AREA OF DUST, DIRT AND DEBRIS CAUSED BY DEMOLITION OPERATIONS.
F. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE. TRANSPORT DEMOLISHED MATERIALS AND LEGALLY DISPOSE OF THEM.
G. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY CONFLICTS BETWEEN EXISTING CONSTRUCTION AND CONSTRUCTION DOCUMENTS.
H. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONTRACT DOCUMENTS WITH EACH OTHER AND SHALL IMMEDIATELY REPORT ANY ERRORS, INCONSISTENCIES OR OMISSIONS TO THE CONTRACTING OFFICER OR OWNER'S REPRESENTATIVE. IF THE CONTRACTOR PERFORMS ANY CONSTRUCTION ACTIVITY KNOWING IT INVOLVES A RECOGNIZED ERROR, INCONSISTENCY OR OMISSION IN THE CONTRACT DOCUMENTS WITHOUT SUCH NOTICE TO THE CONTRACTING OFFICER OR OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL ASSUME APPROPRIATE RESPONSIBILITY FOR SUCH PERFORMANCE AND SHALL BEAR AN APPROPRIATE AMOUNT OF THE ATTRIBUTABLE COSTS FOR CORRECTION.
I. ALL INTERIOR FINISHES ARE TO BE DEMOLISHED IN THE SCHEDULED RENOVATION AREA.
J. GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR ASBESTOS MATERIAL ABATEMENT FOR DEMO AREAS PER THE HAZARDOUS MATERIAL REPORT IN THE PROJECT SPECIFICATIONS.

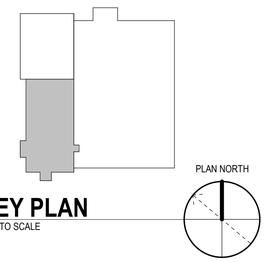
SHEET KEYNOTES:

108	EXISTING VENDING MACHINES TO BE RELOCATED BY OWNER. REFER TO NEW WORK FOR NEW SCHEDULED LOCATION.
D01	NO WORK, EXISTING TO REMAIN

LEGEND:

EXISTING TO REMAIN

EXISTING TO BE DEMOLISHED



KEY PLAN
NOT TO SCALE

GRAPHIC SCALE
1/4"=1'-0"
0 2' 4' 8' 12'

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ISSUANCE SCHEDULE
NUMBER | DESCRIPTION | DATE

GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT

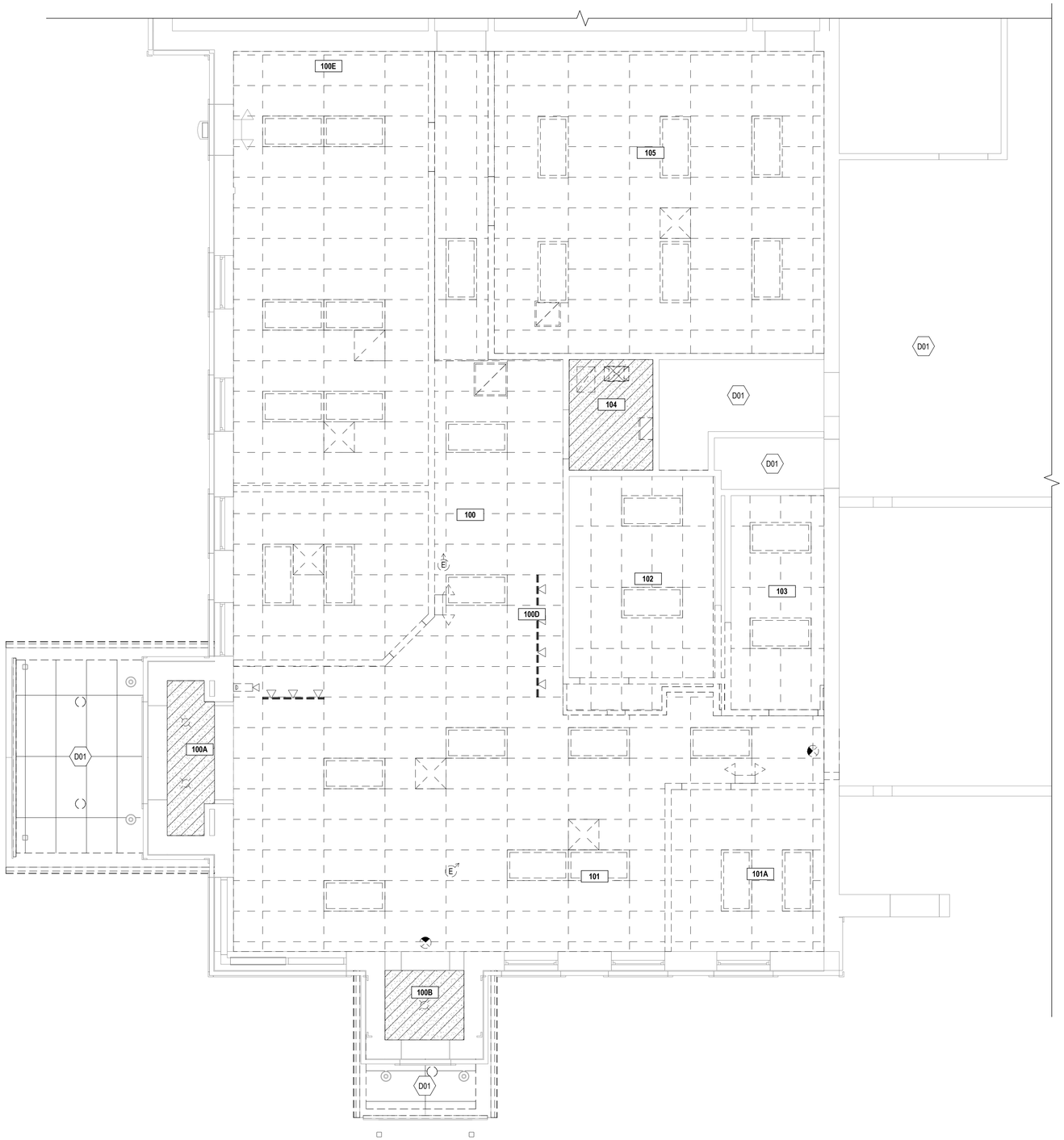
INTERIOR TERMINAL I19 RENOVATION

140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 02/20/2023
DESIGNED BY: F. HEISTERKAMP
DRAWN BY: F. HEISTERKAMP
CHECKED BY: K. BARKER

SHEET NAME:
FLOOR PLAN - DEMOLITION

SHEET NO:
AD101



A1 REFLECTED CEILING PLAN - DEMOLITION
1/4" = 1'-0"

GENERAL NOTES:

A. ALL DIMENSIONS TO BE VERIFIED IN FIELD PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF ALL DISCREPANCIES PRIOR TO STARTING WORK.
B. ALL EXISTING MATERIALS TO REMAIN WHICH ARE DAMAGED OR OTHERWISE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE PATCHED AND REPAIRED TO MATCH EXISTING ADJACENT MATERIALS SO THAT REPAIR IS IMPERCEPTIBLE.
C. REFER TO MEP DRAWINGS FOR OTHER DISCIPLINE DEMOLITION SCOPE OF WORK.
D. CONTRACTOR SHALL MAINTAIN ALL REQUIRED EXITS UNOBSTRUCTED, ILLUMINATED AND PROTECTED FROM CONSTRUCTION ACTIVITIES.
E. CONTRACTOR TO CLEAN AREAS ADJACENT TO DEMOLITION AREA OF DUST, DIRT AND DEBRIS CAUSED BY DEMOLITION OPERATIONS.
F. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE. TRANSPORT DEMOLISHED MATERIALS AND LEGALLY DISPOSE OF THEM.
G. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY CONFLICTS BETWEEN EXISTING CONSTRUCTION AND CONSTRUCTION DOCUMENTS.
H. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONTRACT DOCUMENTS WITH EACH OTHER AND SHALL IMMEDIATELY REPORT ANY ERRORS, INCONSISTENCIES OR OMISSIONS TO THE CONTRACTING OFFICER OR OWNER'S REPRESENTATIVE. IF THE CONTRACTOR PERFORMS ANY CONSTRUCTION ACTIVITY KNOWING IT INVOLVES A RECOGNIZED ERROR, INCONSISTENCY OR OMISSION IN THE CONTRACT DOCUMENTS WITHOUT SUCH NOTICE TO THE CONTRACTING OFFICER OR OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL ASSUME APPROPRIATE RESPONSIBILITY FOR SUCH PERFORMANCE AND SHALL BEAR AN APPROPRIATE AMOUNT OF THE ATTRIBUTABLE COSTS FOR CORRECTION.
I. ALL INTERIOR FINISHES ARE TO BE DEMOLISHED IN THE SCHEDULED RENOVATION AREA.
J. GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR ASBESTOS MATERIAL ABATEMENT FOR DEMO AREAS PER THE HAZARDOUS MATERIAL REPORT IN THE PROJECT SPECIFICATIONS.

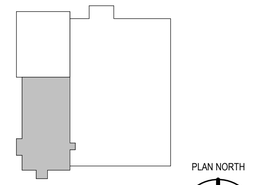
SHEET KEYNOTES:

D01	NO WORK, EXISTING TO REMAIN

LEGEND:

EXISTING GYPSUM BOARD CEILING TO BE DEMOLISHED

EXISTING CEILING GRID AND TILE TO BE DEMOLISHED



KEY PLAN
NOT TO SCALE

GRAPHIC SCALE
1/4"=1'-0"
0 2' 4' 8' 12'

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ISSUANCE SCHEDULE

NUMBER	DATE	DESCRIPTION

GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT

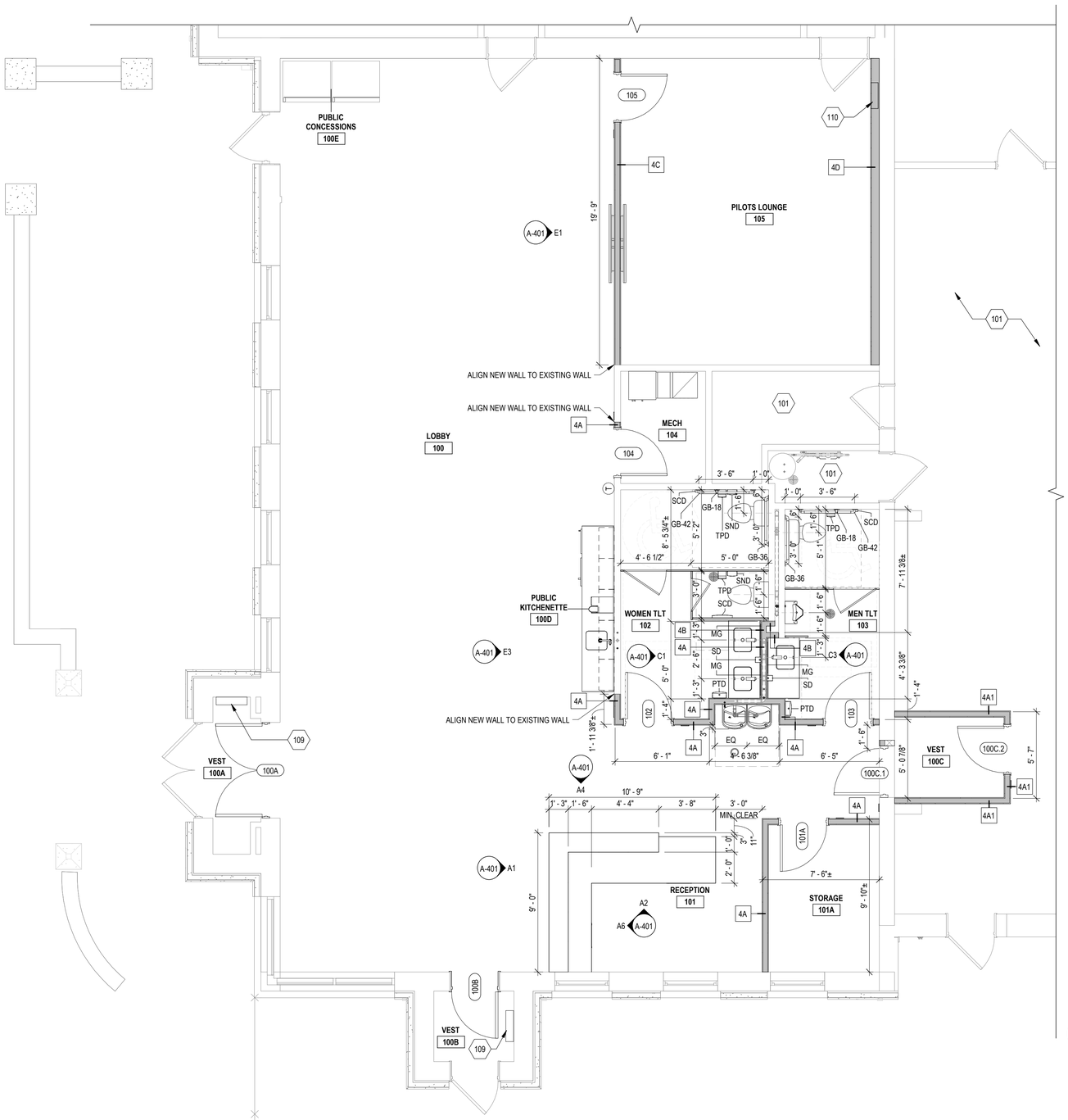
INTERIOR TERMINAL I19 RENOVATION

140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 02/20/2023
DESIGNED BY: F. HEISTERKAMP
DRAWN BY: F. HEISTERKAMP
CHECKED BY: K. BARKER

SHEET NAME:
REFLECTED CEILING PLAN - DEMOLITION

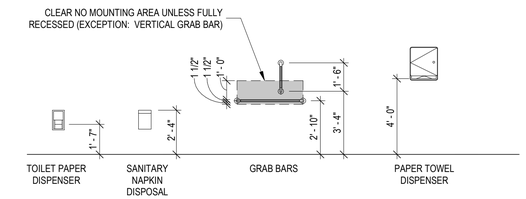
SHEET NO:
AD102

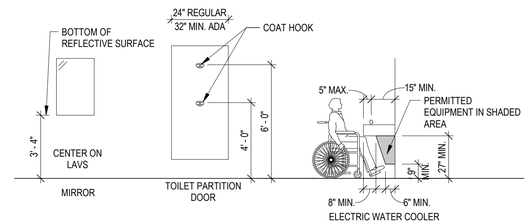


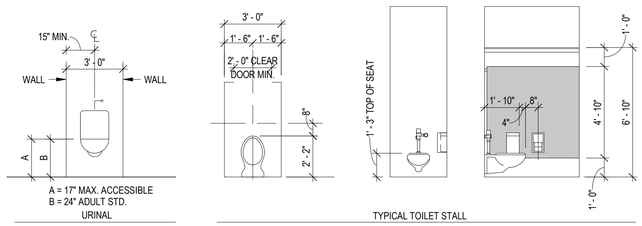
A1 FLOOR PLAN - NEW WORK
1/4" = 1'-0"

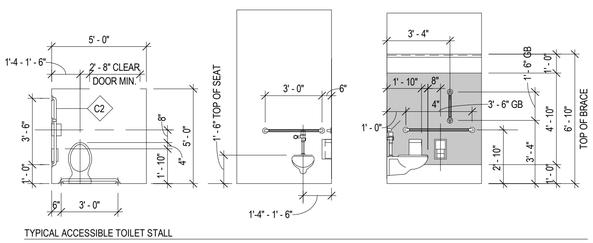
TOILET ACCESSORY SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS
GB-18	GRAB BAR, 18"	BOBRICK	B-5806 X 18	WALL MOUNTED
GB-36	GRAB BAR, 36"	BOBRICK	B-5806 X 36	WALL MOUNTED
GB-42	GRAB BAR, 42"	BOBRICK	B-5806 X 42	WALL MOUNTED
MG	MIRROR GLASS, 24" X 36"	BOBRICK	B-165 2436	WALL MOUNTED
PTD	PAPER TOWEL DISPENSER	BOBRICK	B-4262	WALL MOUNTED
SCD	SEAT COVER DISPENSER	BOBRICK	B-4221	WALL AND SURFACE MOUNTED
SD	SOAP DISPENSER	BOBRICK	B-2013	WALL MOUNTED
SND	SANITARY NAPKIN DISPOSAL	BOBRICK	B-270	WALL AND SURFACE MOUNTED
TPD	TOILET PAPER DISPENSER	BOBRICK	B-4288	WALL AND SURFACE MOUNTED









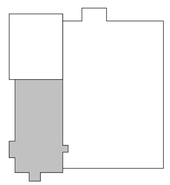
B5 TYP. PLUMB. FIXT. & TOILET ACCESSORY ELEVATIONS
1/4" = 1'-0"

GENERAL NOTES:

A. ALL DIMENSIONS TO BE VERIFIED IN FIELD PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF ALL DISCREPANCIES PRIOR TO STARTING WORK.
B. ALL DIMENSIONS ARE FACE OF MASONRY, POURED CONCRETE, OR FACE OF STUD (WOOD OR METAL, U.N.O.)
C. ALL INTERIOR PARTITIONS TO BE **TYPE 4A** UNLESS NOTED OTHERWISE. REFER TO SHEET A-501 FOR PARTITION DETAILS.
D. ALL INTERIOR DOOR FRAMES SHALL BE LOCATED A DISTANCE OF SIX INCHES FROM THROAT RETURN TO THE CLOSEST ADJACENT PERPENDICULAR PARTITION, U.N.O.
E. PROVIDE SOLID BLOCKING/BACKING IN-WALL CAVITIES AT ALL WALL MOUNTED CASEWORK, FIXTURES, EQUIPMENT AND SHELVING. REFER TO TYPICAL PARTITION AND BACK PLATE DETAILS FOR ADDITIONAL INFORMATION.
F. REFER TO MEP AND FIRE PROTECTION DRAWINGS FOR MOUNTING HEIGHTS OF SWITCHES, OUTLETS, ALARMS AND ALL SURFACE MOUNTED COMPONENTS.
G. ALL MASONRY DIMENSIONS ARE NOMINAL, U.N.O.

SHEET KEYNOTES:

101	NO WORK, EXISTING TO REMAIN
109	MECHANICAL EQUIPMENT, REFER TO MECHANICAL DRAWINGS
110	ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS



KEY PLAN
NOT TO SCALE

GRAPHIC SCALE
1/4"=1'-0"
0 2' 4' 8' 12'

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ISSUANCE SCHEDULE

NUMBER	DESCRIPTION	DATE

GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT

INTERIOR TERMINAL I19 RENOVATION

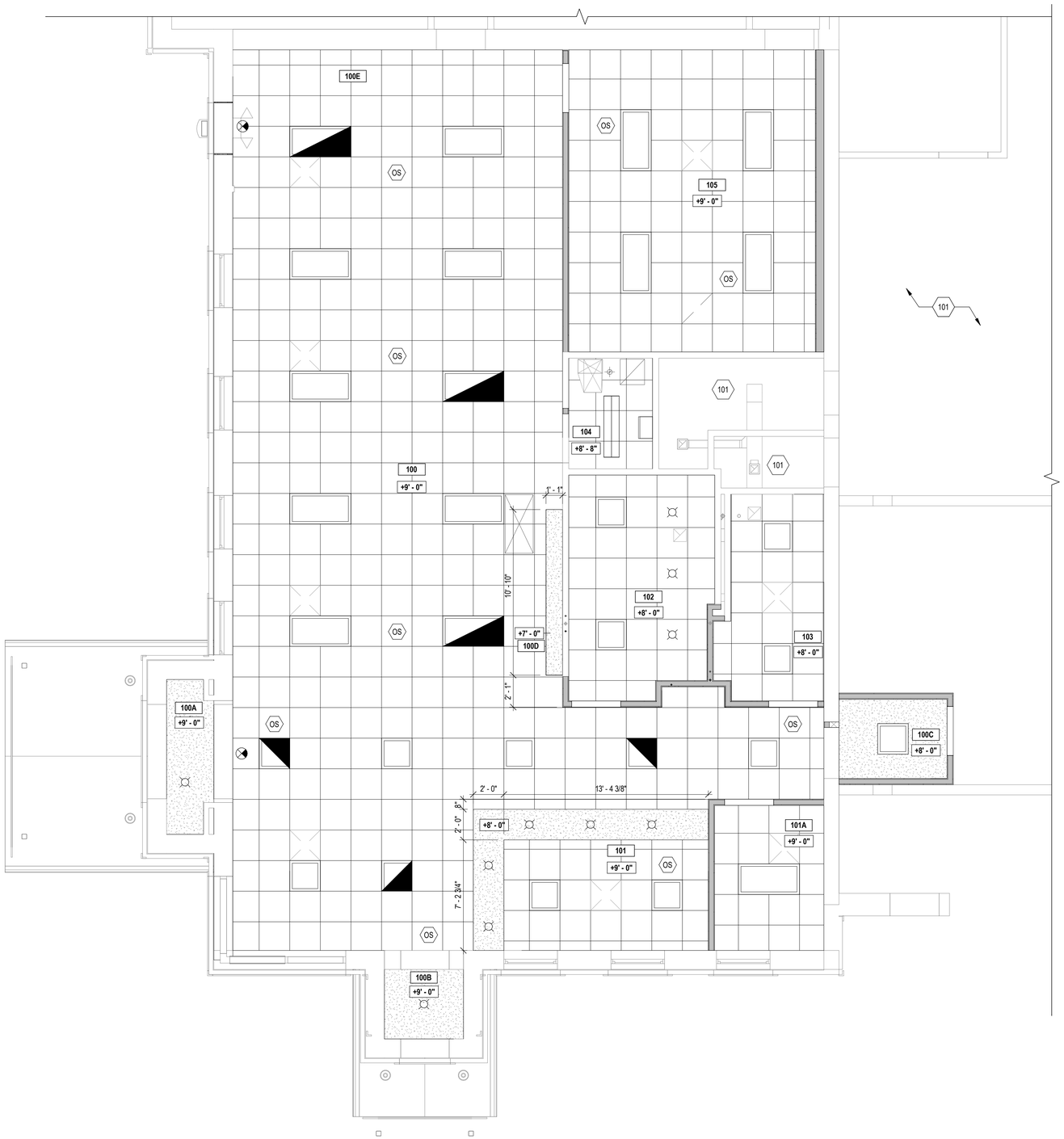
140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 02/20/2023

DESIGNED BY: F. HEISTERKAMP
DRAWN BY: F. HEISTERKAMP
CHECKED BY: K. BARKER

SHEET NAME:
FLOOR PLAN - NEW WORK

SHEET NO:
A-101



A1 REFLECTED CEILING PLAN - NEW WORK

1/4" = 1'-0"

GENERAL NOTES:

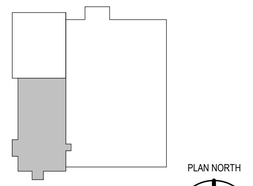
A. IN THE CASE OF MINOR DISCREPANCIES BETWEEN MEP AND ARCHITECTURAL DOCUMENTS IN THE LOCATION OF CEILING MOUNTED COMPONENTS, THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN. NOTIFY ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
B. REFER TO MEP AND FIRE PROTECTION DRAWINGS FOR DETAILED INFORMATION, LOCATION AND ADDITIONAL INFORMATION.
C. LIGHTS, DIFFUSERS, SPRINKLER HEADS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, STROBES AND MISCELLANEOUS DEVICES SHALL BE CENTERED IN THE CEILING TILE IN WHICH THEY OCCUR, U.N.O.
D. ALL GYPSUM BOARD CEILING WITHIN 4'-0" OF PERIMETER SHALL BE MOISTURE RESISTANT.
E. SMOKE AND HEAT DETECTORS TO BE GREATER THAN 3'-0" RFOM MECHANICAL DIFFUSERS.

SHEET KEYNOTES:

101	NO WORK, EXISTING TO REMAIN

LEGEND:

	GYPSUM BOARD CEILING, SOFFIT OR BULKHEAD
	2' x 2' SUSPENDED ACOUSTIC CEILING TILES
	LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
	EMERGENCY / NIGHT LIGHT FIXTURES, REFER TO ELECTRICAL DRAWINGS
	HVAC SUPPLY, RETURN, EXHAUST DIFFUSER. REFER TO MECHANICAL DRAWINGS
	ACCESS PANEL
SD	SMOKE DETECTOR
(S)	SPEAKER



KEY PLAN
NOT TO SCALE

GRAPHIC SCALE

1/4"=1'-0" 0 2' 4' 8' 12'

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ISSUANCE SCHEDULE

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GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT

INTERIOR TERMINAL I19 RENOVATION

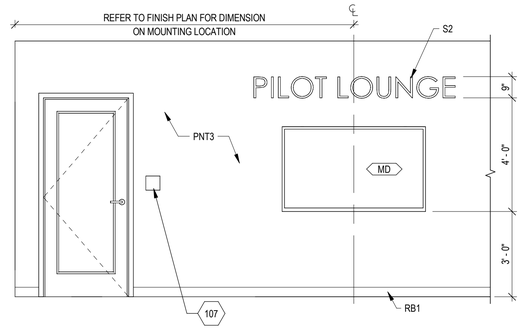
140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 02/20/2023

DESIGNED BY: F. HEISTERKAMP
DRAWN BY: F. HEISTERKAMP
CHECKED BY: K. BARKER

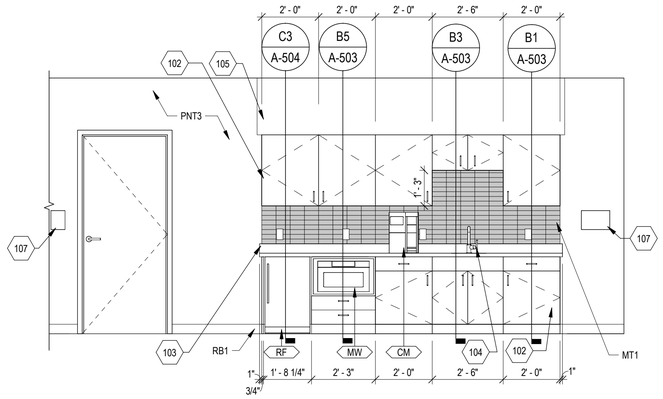
SHEET NAME:
REFLECTED CEILING PLAN - NEW WORK

SHEET NO:
A-102



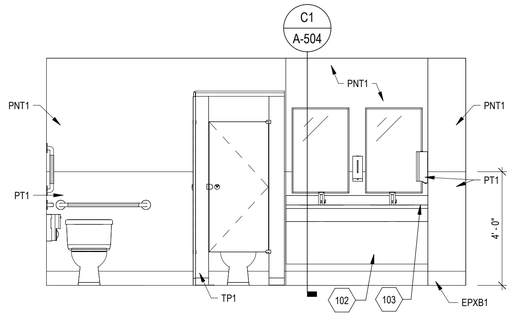
E1 LOBBY 100 - PILOT LOUNGE SIGNAGE

E1 / A-101 — 3/8" = 1'-0"



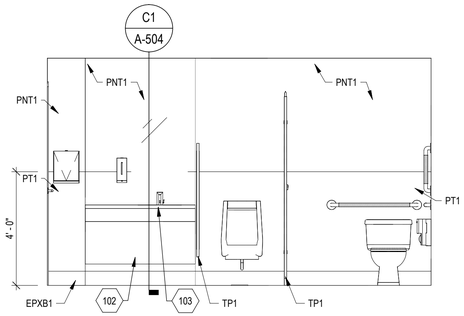
E3 PUBLIC KITCHENETTE 100D

E3 / A-101 — 3/8" = 1'-0"



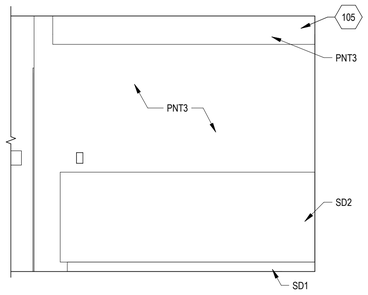
C1 WOMEN TOILET 104 - EAST

C1 / A-101 — 3/8" = 1'-0"



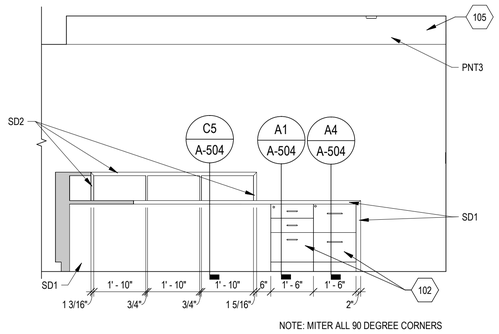
C3 MEN TOILET 103 - WEST

C3 / A-101 — 3/8" = 1'-0"



A1 RECEPTION 101 - EAST

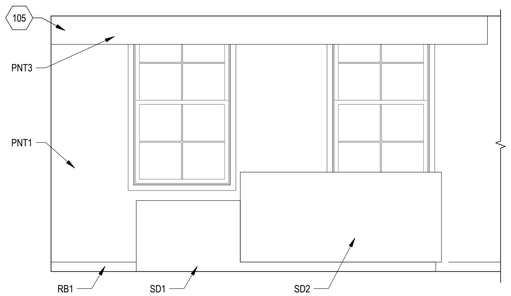
A1 / A-101 — 3/8" = 1'-0"



NOTE: MITER ALL 90 DEGREE CORNERS

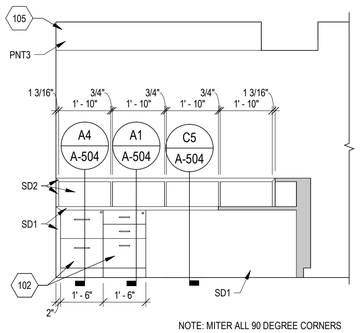
A2 RECEPTION 101 - NORTH

A2 / A-101 — 3/8" = 1'-0"



A4 RECEPTION 101 - SOUTH

A4 / A-101 — 3/8" = 1'-0"



NOTE: MITER ALL 90 DEGREE CORNERS

A6 RECEPTION 101 - WEST

A6 / A-101 — 3/8" = 1'-0"

GENERAL NOTES:

A. REFERENCE THE FINISH SCHEDULE AND LEGEND FOR CASEWORK MATERIALS FINISH COLORS.
B. REFERENCE THE EQUIPMENT SCHEDULE ON SHEET A-701 FOR ALL ITEMS TAGGED WITH THE FOLLOWING SYMBOL: ⬡

SHEET KEYNOTES:

102	PLASTIC LAMINATE CABINETRY
103	SOLID SURFACE COUNTERTOP AND BACKSPLASH
104	SINK, REFER TO PLUMBING DRAWINGS
105	GYPSUM WALLBOARD SOFFIT
107	INTERIOR SIGNAGE, REFER TO SIGNAGE SCHEDULE

GRAPHIC SCALE
3/8"=1'-0"
0 1' 2' 3' 4' 6' 8'

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100%
SUBMITTAL

PRELIMINARY
NOT FOR CONSTRUCTION

ISSUANCE SCHEDULE

NUMBER	DESCRIPTION	DATE

GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT

INTERIOR TERMINAL I19 RENOVATION

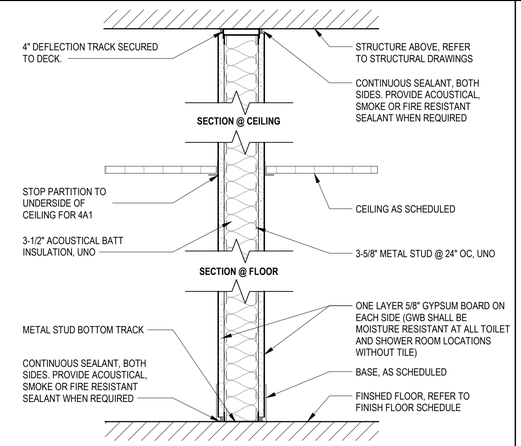
140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 02/20/2023

DESIGNED BY: F. HEISTERKAMP
DRAWN BY: F. HEISTERKAMP
CHECKED BY: K. BARKER

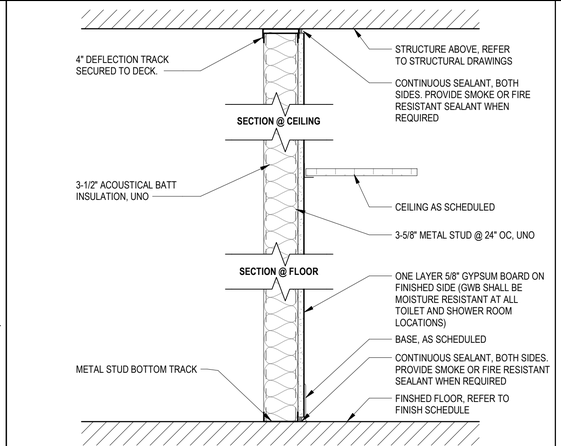
SHEET NAME:
INTERIOR ELEVATIONS

SHEET NO:
A-401



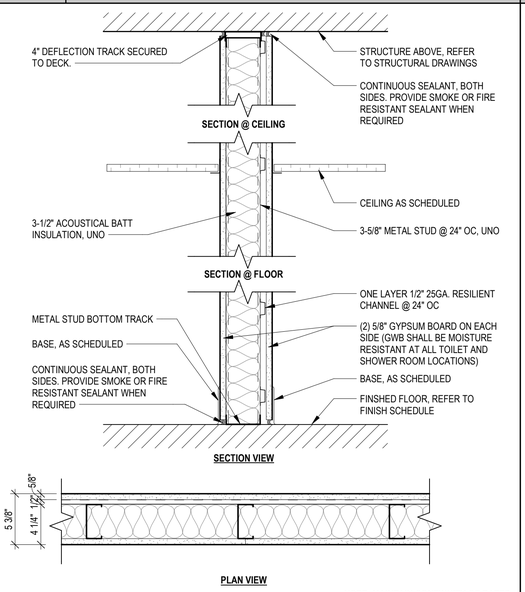
4A

4A	**ASSEMBLY TO COMPLY WITH UL DESIGN NO: UL U465 / STC 46 (NGC 2018106) / SMOKE RATED** 3-5/8" METAL STUD AT 24" OC WITH 5/8" GWB ON EACH SIDE WITH CONTINUOUS 3-1/2" ACOUSTICAL ATTENUATION BATTS. EXTEND PARTITION AND SEAL TIGHT TO METAL DECK ABOVE. SEAL ALL OPENINGS AND PENETRATIONS.
4A1	**ASSEMBLY TO COMPLY WITH UL DESIGN NO: UL U465 / STC 46 (NGC 2018106) / SMOKE RATED** 3-5/8" METAL STUD AT 24" OC WITH 5/8" GWB ON EACH SIDE WITH CONTINUOUS 3-1/2" ACOUSTICAL ATTENUATION BATTS. EXTEND PARTITION AND SEAL TIGHT TO CEILING. SEAL ALL OPENINGS AND PENETRATIONS.



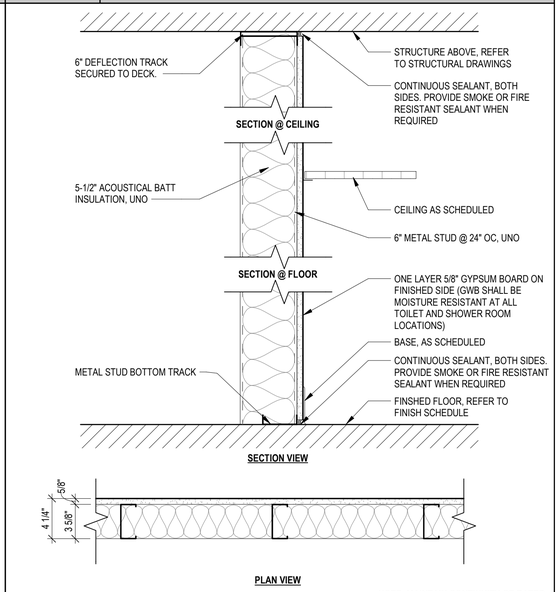
4B

4B	3-5/8" METAL STUD AT 24" OC WITH 5/8" GWB ON ONE SIDE WITH CONTINUOUS 3-1/2" ACOUSTICAL ATTENUATION BATTS. EXTEND PARTITION AND SEAL TIGHT TO METAL DECK ABOVE.



4C

4C	**ASSEMBLY TO COMPLY WITH UL DESIGN NO: UL U419 / STC 57 / SMOKE RATED** 3-5/8" METAL STUD AT 24" OC WITH ONE LAYER OF 5/8" GWB ON EACH SIDE WITH ONE LAYER OF RESILIENT CHANNEL ON ONE SIDE AND CONTINUOUS 3-1/2" ACOUSTICAL ATTENUATION BATTS. EXTEND PARTITION AND SEAL TIGHT TO METAL DECK ABOVE. SEAL ALL OPENINGS AND PENETRATIONS.



4D

4D	6" METAL STUD AT 24" OC WITH 5/8" GWB ON ONE SIDE WITH CONTINUOUS 5-1/2" ACOUSTICAL ATTENUATION BATTS. EXTEND PARTITION AND SEAL TIGHT TO METAL DECK ABOVE.

GENERAL NOTES:

A. REFER TO LIFE SAFETY PLANS FOR LOCATIONS AND RATINGS OF FIRE RATED PARTITIONS AND PARTITIONS THAT RESIST THE PASSAGE OF SMOKE.
B. PARTITION TYPES DO NOT INCLUDE ALL APPLIED FINISHES. REFER TO FINISH SCHEDULE.
C. SEAL TOP OF WALL AT STRUCTURAL (ROOF/FLOOR) DECK, AT PERIMETER, AT WALL INTERSECTIONS, AT FLOOR, AND AT ALL PENETRATIONS. USE FIRE RATED SEALANT AS REQUIRED TO SEAL IN ACCORDANCE WITH JOINT SYSTEM **UL HWD0039** AT CMU AND **UL HWD0034** AT GYPSUM WALLBOARD PARTITIONS, WHERE PARTITIONS ARE INDICATED TO BE FIRE RATED.
D. FOR ALL METAL STUD PARTITIONS, FINISHES SHALL BE TERMINATED AT SAME HEIGHT AS STUD ON BOTH SIDES, UNLESS NOTED OTHERWISE.
E. ALL NON-BEARING WALLS AND PARTITIONS WHICH EXTEND TO THE UNDERSIDE OF THE METAL DECK SHALL BE POCKETED TO RECEIVE METAL JOINTS. POCKETS IN RATED WALLS SHALL BE FIRESTOPPED AS REQUIRED BY THE SPECIFICATIONS AND NOTES. POCKETS IN NON-RATED WALLS SHALL BE STOPPED WITH MINERAL WOOL.
F. WHERE WALL AND PARTITION TYPES ARE INDICATED AS FIRE RATED ASSEMBLIES, THE MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FIRE RATED ASSEMBLY INDICATED. REFER TO LIFE SAFETY PLAN(S).
G. AT ALL FIRE RATED PARTITIONS PROVIDE APPROVED FIRE STOPPING MATERIAL AT ALL PENETRATIONS AND ALONG INTERSECTING SURFACES.
H. IN ALL RATED MASONRY WALLS, LOAD-BEARING AND ALL WALLS THAT WHICH TERMINATE AT UNDERSIDE OF METAL DECK, ALL VOIDS SHALL BE FILLED WITH AN APPROVED FIRESAFING MATERIAL.
I. PROVIDE 5/8" TYPE 'X' MOISTURE RESISTANT GWB AT ALL TOILET AND SHOWER LOCATIONS.
J. ALL CMU WALLS SHALL BE REINFORCED WITH HORIZONTAL MASONRY REINFORCING AT 16" ON CENTER VERTICALLY, UNLESS OTHERWISE NOTED.
K. MASONRY FIREWALLS SHALL BE CONSTRUCTED OF MATERIALS CERTIFIED TO ACHIEVE THE FIRE RATING REQUIRED FOR THE THICKNESS INDICATED.
L. (1) LAYER 5/8" GLASS MAT WATER-RESISTANT GYPSUM TILE BACKING BOARD AT CERAMIC TILE LOCATIONS AS OCCURRING. REFERENCE FINISH SCHEDULE AND FLOOR PLANS.

GRAPHIC SCALE
1 1/2"=1'-0"
0 3" 6" 9" 1' 2'

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ISSUANCE SCHEDULE

NUMBER	DATE	DESCRIPTION

GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT

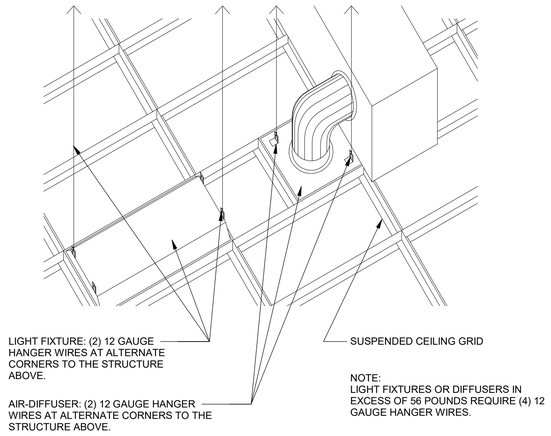
INTERIOR TERMINAL I19 RENOVATION

140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 02/20/2023
DESIGNED BY: F. HEISTERKAMP
DRAWN BY: F. HEISTERKAMP
CHECKED BY: J. ELDER

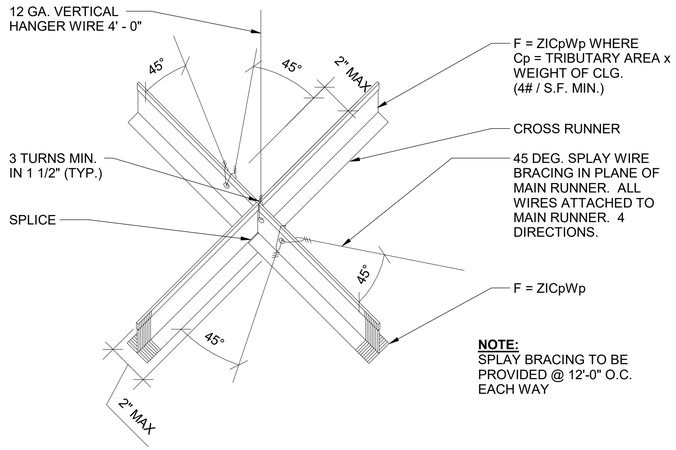
SHEET NAME:
PARTITION TYPES

SHEET NO:
A-501



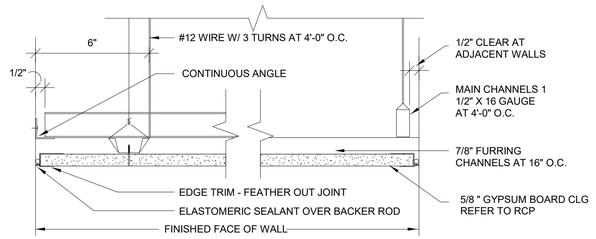
D1 TYPICAL FIXTURE BRACING DETAIL

1/2" = 1'-0"



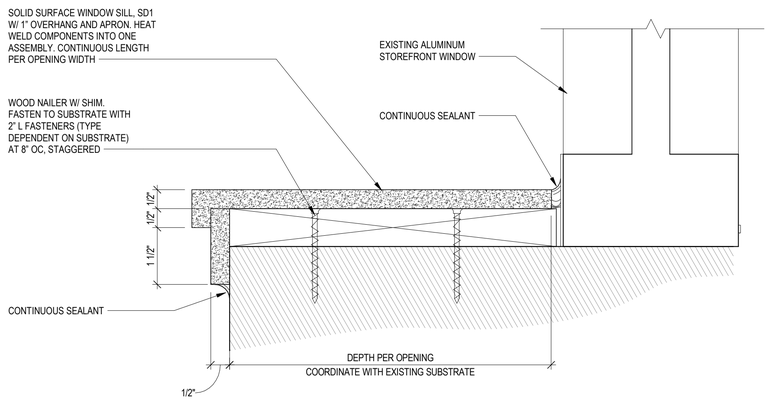
D3 TYPICAL SWAY BRACING AT APC CEILING

3" = 1'-0"



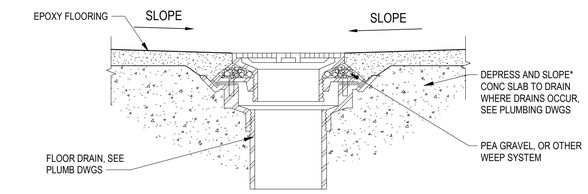
D5 TYPICAL DETAIL AT GWB CEILING

3" = 1'-0"



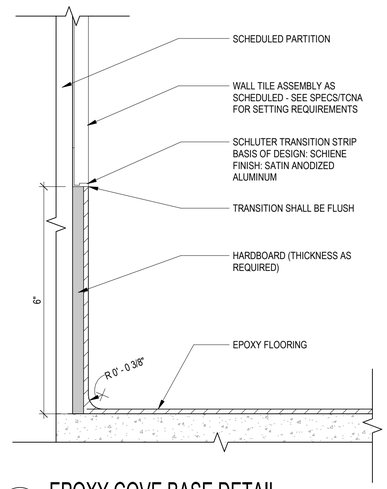
B1 TYPICAL SOLID SURFACE WINDOW STOOL DETAIL

6" = 1'-0"



B4 SLOPE TO FLOOR DRAIN DETAIL - EPOXY FLOORING

3" = 1'-0"



B6 EPOXY COVE BASE DETAIL

6" = 1'-0"

GRAPHIC SCALE

1/2"=1'-0" 0 6" 1' 2' 3' 4' 5' 6'

3"=1'-0" 0 1" 2" 3" 4" 5" 6" 9" 1'

6"=1'-0" 0 1" 2" 3" 6"

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GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT

INTERIOR TERMINAL I19 RENOVATION

140 N VALLEY ROAD
XENIA, OH 45386

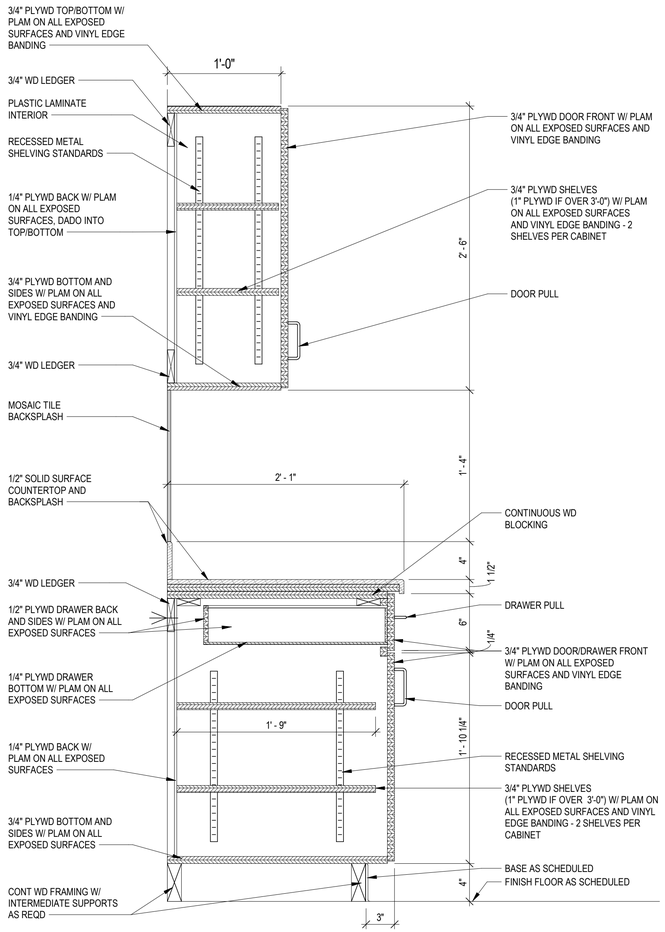
PROJECT NO: 10012540
DATE ISSUED: 02/20/2023
DESIGNED BY: F. HEISTERKAMP
DRAWN BY: F. HEISTERKAMP
CHECKED BY: J. ELDER

SHEET NAME:
CEILIING AND MISCELLANEOUS DETAILS

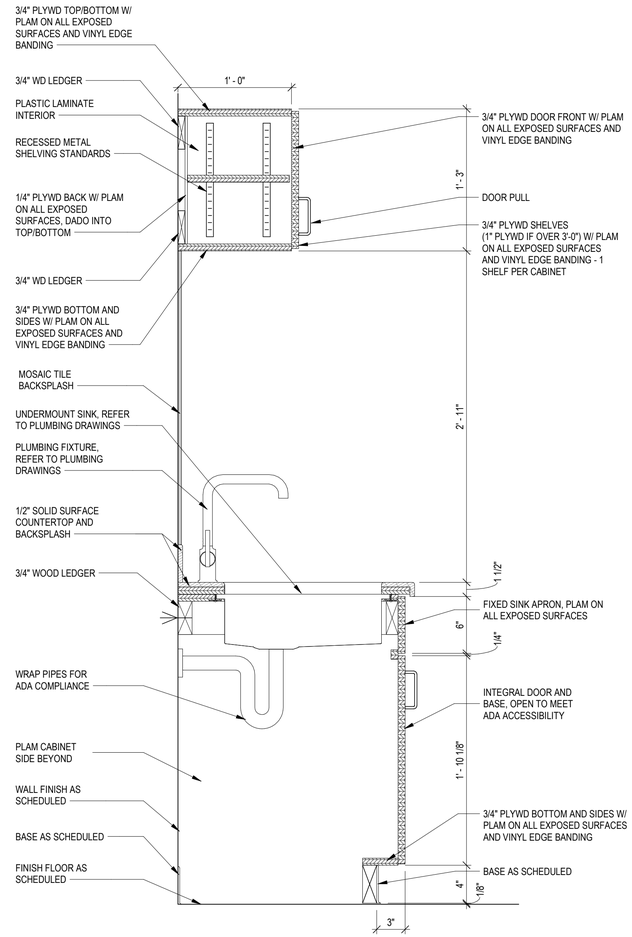
SHEET NO:
A-502

GENERAL NOTES:

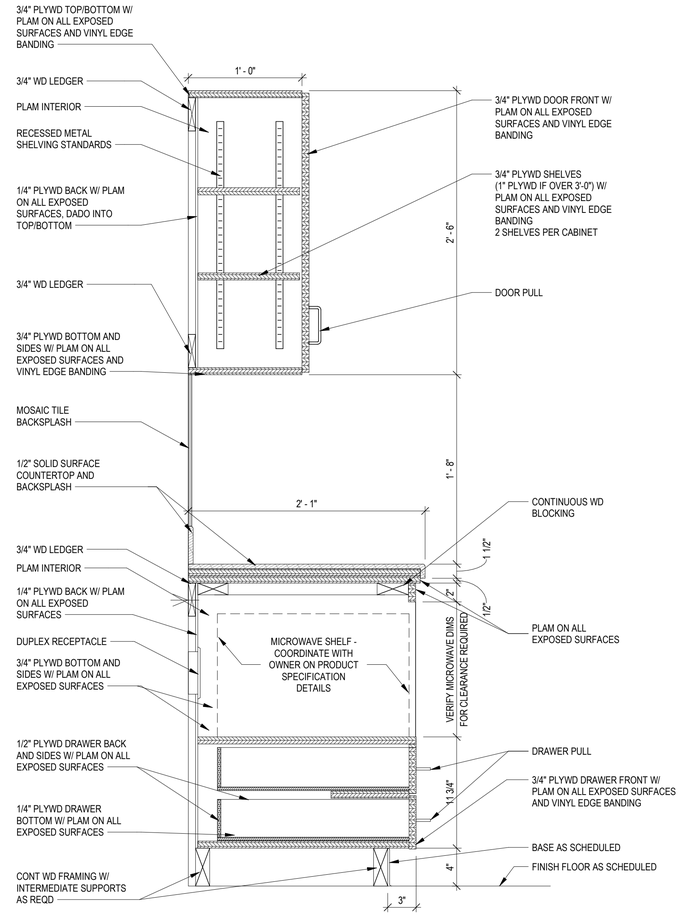
A. REFERENCE THE FINISH SCHEDULE AND LEGEND FOR CASEWORK MATERIALS FINISH COLORS.
B. REFERENCE THE EQUIPMENT SCHEDULE ON SHEET A-701 FOR ALL ITEMS TAGGED WITH THE FOLLOWING SYMBOL: ⟨ ⟩



B1 / A-401 TYP CASEWORK SECTION
1 1/2" = 1'-0"



B3 / A-401 TYP ADA CASEWORK SECTION AT SINK
1 1/2" = 1'-0"



B5 / A-401 TYP MICROWAVE CUBBY CASEWORK SECTION
1 1/2" = 1'-0"

GRAPHIC SCALE
1 1/2"=1'-0"
0 3" 6" 9" 1' 2'

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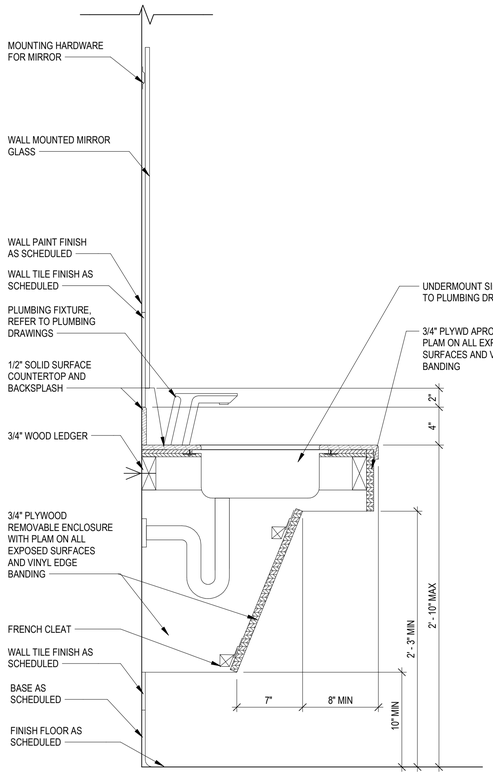
INTERIOR TERMINAL I19 RENOVATION
140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 02/20/2023
DESIGNED BY: F. HEISTERKAMP
DRAWN BY: F. HEISTERKAMP
CHECKED BY: K. BARKER

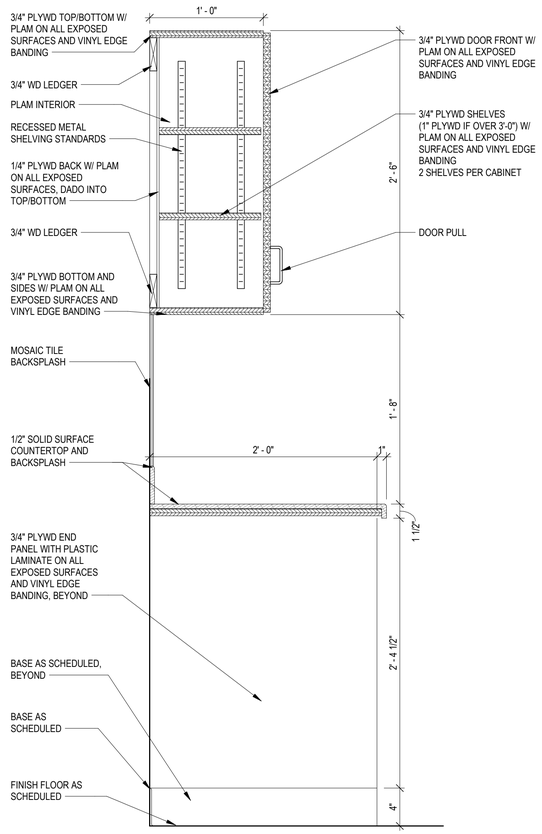
SHEET NAME:
CASEWORK DETAILS

SHEET NO:
A-503



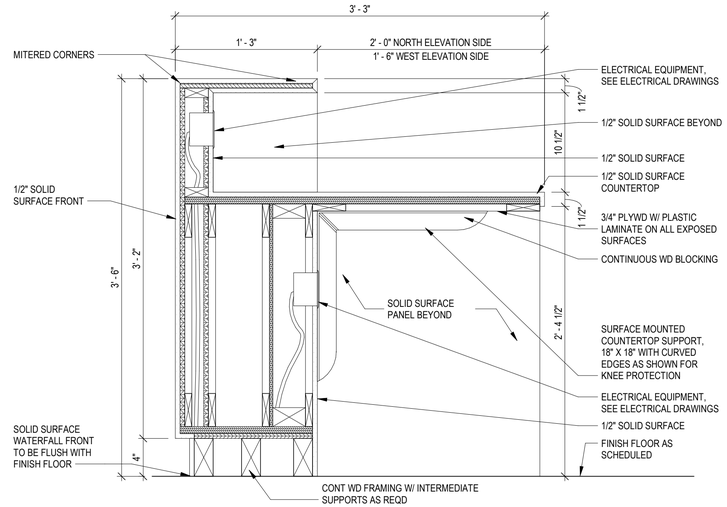
C1 A-401 TYP ADA CASEWORK SECTION AT SINK

1 1/2" = 1'-0"



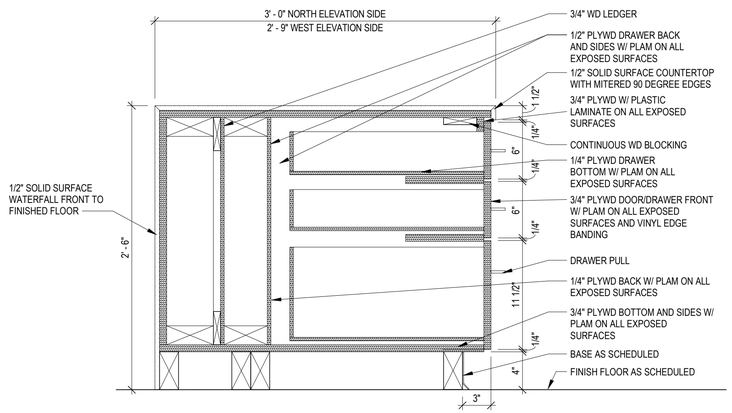
C3 A-401 TYP OPEN BASE CASEWORK SECTION

1 1/2" = 1'-0"



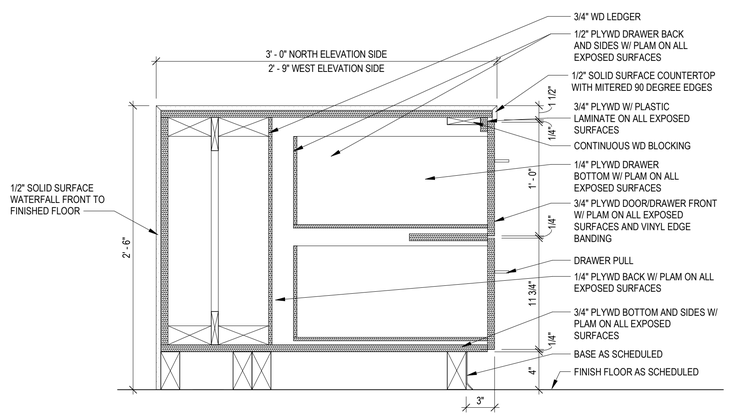
C5 A-401 TYP SECTION - TRANSACTION AT RECEPTION DESK

1 1/2" = 1'-0"



A1 A-401 TYP B/B/F AT RECEPTION DESK

1 1/2" = 1'-0"



A4 A-401 TYP F/F AT RECEPTION DESK

1 1/2" = 1'-0"

GENERAL NOTES:

A. REFERENCE THE FINISH SCHEDULE AND LEGEND FOR CASEWORK MATERIALS FINISH COLORS.
B. REFERENCE THE EQUIPMENT SCHEDULE ON SHEET A-701 FOR ALL ITEMS TAGGED WITH THE FOLLOWING SYMBOL:

GRAPHIC SCALE
1 1/2"=1'-0" 0 3" 6" 9" 1' 2'

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INTERIOR TERMINAL I19 RENOVATION

140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 02/20/2023
DESIGNED BY: F. HEISTERKAMP
DRAWN BY: F. HEISTERKAMP
CHECKED BY: K. BARKER

SHEET NAME:
CASEWORK DETAILS

SHEET NO:
A-504

DOOR SCHEDULE

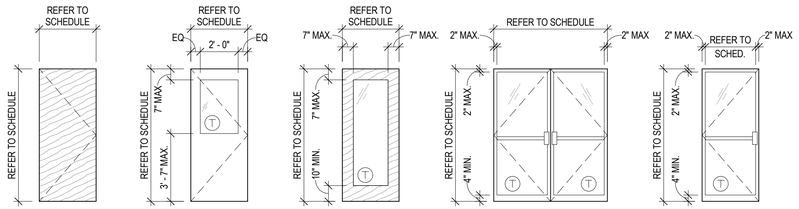
DOOR NO.	DOOR TYPE	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICKNESS	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	RATING STC	RATING FIRE	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	HARDWARE SET (SEE SPECS)	DOOR NOTES
100A	D4	6' - 0"	7' - 0"	0' - 1 3/4"	TEMPERED GLAZING	CLEAR	F3	ALUMINUM	CLEAR ANODIZED	-	NON-RATED	-	-	-	01	1
100B	D5	3' - 0"	7' - 0"	0' - 1 3/4"	TEMPERED GLAZING	CLEAR	F4	ALUMINUM	CLEAR ANODIZED	-	NON-RATED	-	-	-	02	1
100C.1	D2	3' - 0"	7' - 0"	0' - 1 3/4"	HOLLOW METAL W/ TEMPERED GLAZING	PAINT	F2	HOLLOW METAL	PAINT	-	90 MIN.	H2	J2	-	03	
100C.2	D2	3' - 0"	7' - 0"	0' - 1 3/4"	HOLLOW METAL W/ TEMPERED GLAZING	PAINT	F1	HOLLOW METAL	PAINT	-	SMOKE RATED	H1	J1	-	04	
100E	D5	3' - 0"	7' - 0"	0' - 1 3/4"	TEMPERED GLAZING	CLEAR	F4	ALUMINUM	CLEAR ANODIZED	-	NON-RATED	-	-	-	02	1
101A	D1	3' - 0"	7' - 0"	0' - 1 3/4"	SOLID CORE WOOD	STAIN	F1	HOLLOW METAL	PAINT	-	SMOKE RATED	H1	J1	-	05	
102	D1	3' - 0"	7' - 0"	0' - 1 3/4"	SOLID CORE WOOD	STAIN	F1	HOLLOW METAL	PAINT	46	SMOKE RATED	H1	J1	-	06	
103	D1	3' - 0"	7' - 0"	0' - 1 3/4"	SOLID CORE WOOD	STAIN	F1	HOLLOW METAL	PAINT	46	SMOKE RATED	H1	J1	-	06	
104	D1	3' - 0"	7' - 0"	0' - 1 3/4"	SOLID CORE WOOD	STAIN	F1	HOLLOW METAL	PAINT	-	SMOKE RATED	H1	J1	-	05	
105	D3	3' - 0"	7' - 0"	0' - 1 3/4"	SOLID CORE WOOD	STAIN	F1	HOLLOW METAL	PAINT	57	SMOKE RATED	H1	J1	-	07	2

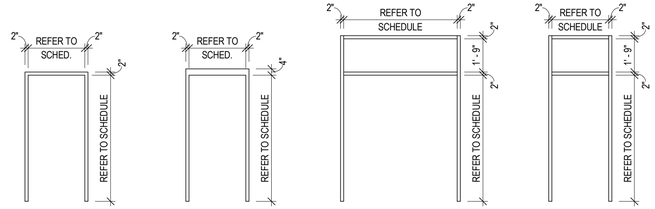
GENERAL NOTES:

A. REFER TO SPECIFICATIONS FOR DOOR HARDWARE REQUIREMENTS, INCLUDING SUBMITTAL REQUIREMENTS.
B. ALL HARDWARE TO BE COORDINATED WITH ELECTRICAL, SECURITY AND ACCESS CONTROL REQUIREMENTS.
C. REFER TO FINISH SCHEDULE FOR MORE INFORMATION ON WOOD DOOR FINISH.
D. SMOKE RATED DOORS TO RESIST THE PASSAGE OF SMOKE; SMOKE SEALS NOT REQUIRED. DOORS REQUIRED TO BE SELF-CLOSING AND POSITIVE LATCHING.
E. FIRE RATED DOORS ARE REQUIRED TO BE SELF-CLOSING AND POSITIVE LATCHING.
F. REFER TO SHEET A-702 FOR SILL / FLOOR TRANSITION DETAILS.

DOOR SCHEDULE NOTES

1. ALUMINUM STOREFRONT ASSEMBLY. HARDWARE AND TYPICAL HEAD, JAMB AND SILL DETAILS SHALL BE PROVIDED BY MANUFACTURER.\
2. ALL DOOR HARDWARE BY STC ASSEMBLY MANUFACTURER.





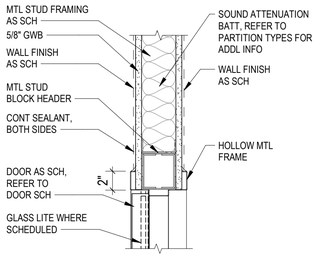
DOOR TYPES

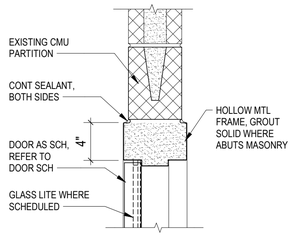
1/4" = 1'-0"

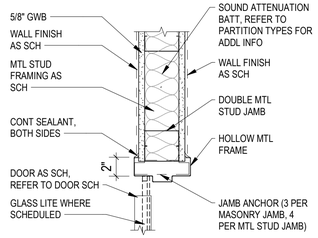
T = TEMPERED SAFETY GLASS

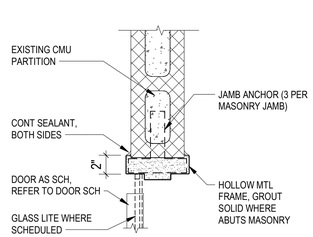
DOOR FRAMES

1/4" = 1'-0"









DOOR DETAILS

1 1/2" = 1'-0"

GRAPHIC SCALE
1/4"=1'-0" 0 2' 4' 8' 12'
1 1/2"=1'-0" 0 3" 6" 9" 1' 2'

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INTERIOR TERMINAL I19 RENOVATION
140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 02/20/2023

DESIGNED BY: F. HEISTERKAMP
DRAWN BY: F. HEISTERKAMP
CHECKED BY: J. ELDER

SHEET NAME:
DOOR SCHEDULE, TYPES AND DETAILS

SHEET NO:
A-601

FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL MATERIAL	WALL FINISH	CEILING MATERIAL	CEILING FINISH	NOTES
100	LOBBY	LVT1, LVT2, CPT1	RB1	EX-GWB, GWB	IRP1, PNT1, PNT3	APC / GWB	APC1 / PNT2	
100A	VEST	CPT1	RB1	EX-GWB	PNT1	GWB	PNT2	
100B	VEST	CPT1	RB1	EX-GWB	PNT1	GWB	PNT2	
100C	VEST	EX CONC	RB1	EX-CMU, GWB	IRP1, PNT1	GWB	PNT2	
100D	PUBLIC KITCHENETTE	LVT1	RB1	EX-GWB	PNT1	GWB	PNT3	1
100E	PUBLIC CONCESSIONS	LVT1	RB1	EX-GWB	PNT1	APC	APC1	
101	RECEPTION	LVT1	RB1	EX-GWB, GWB	IRP1, PNT1, PNT3	APC / GWB	APC1 / PNT3	
101A	STORAGE	LVT1	RB1	EX-CMU, GWB	PNT1	APC	APC1	
102	WOMEN TLT	EPX1	EPXB1	EX-GWB, GWB	PT1, PNT1	APC	APC1	2
103	MEN TLT	EPX1	EPXB1	EX-GWB, GWB	PT1, PNT1	APC	APC1	2
104	MECH	EPX1	EPXB1	EX-GWB, EX-CMU, GWB	PNT1	APC	APC1	
105	PILOTS LOUNGE	CPT2	RB1	EX-GWB, GWB	PNT1, PNT3	APC	APC1	

FINISH SCHEDULE NOTES

1. PROVIDE PLASTIC LAMINATE, PLAM1 CABINETRY AND SOLID SURFACE, SD1 COUNTERTOPS AND BACKSPLASHES. PROVIDE SIDE SPLASHES AS INDICATED IN INTERIOR ELEVATIONS.
2. PROVIDE TOILET PARTITIONS, TP1.

GENERAL NOTES:

A. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD.
B. ALL EXISTING MATERIALS TO REMAIN WHICH ARE DAMAGED OR OTHERWISE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE PATCHED AND REPAIRED TO MATCH EXISTING ADJACENT MATERIALS SO THAT REPAIR IS IMPERCEPTIBLE.
C. ON ALL ARCHITECTURAL SHEETS, ALL MATERIALS NOTED ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING. ALL MATERIALS NOTED AS EXISTING SHALL REMAIN UNLESS SPECIFICALLY NOTED TO BE REMOVED. SEE DEMOLITION AND NEW WORK NOTES FOR SPECIFIC NOTES.
D. ALL FLOOR FINISH TRANSITIONS SHALL BE CONCEALED BY A CLOSED DOOR.
E. HATCH PATTERNS ON FINISH PLANS ARE REPRESENTATIONAL ONLY TO DISTINGUISH COLOR CHANGES, UNLESS OTHERWISE NOTED.
F. ALL WOOD DOORS TO BE WD1.
G. ALL HOLLOW METAL DOORS AND FRAMES TO BE PAINTED, PNT4.
H. ALL EXTERIOR WINDOWS TO INCLUDE WINDOW STOOL, SD1.
I. ALL INTERIOR SIGNAGE TO BE S1.

GENERAL SIGNAGE NOTES

A. ALL SIGNAGE QUANTITIES, TEXT, AND ROOM NUMBERS TO BE VERIFIED BY OWNER AND ARCHITECT PRIOR TO SIGNAGE ORDER PLACEMENT.
B. SIGNAGE SHALL COMPLY WITH ADA AND ANSI A117.1 U.O.N.
C. INTERIOR SIGNAGE DESCRIPTION U.O.N. ON SIGN ELEVATION:
   a. SIGN FACE FINISH: TBD
   b. TEXT FONT TYPE: HELVETICA (ADA-COMPLIANT)
   c. RAISED CHARACTERS: MINIMUM 1/32" RAISED TEXT, HEIGHT AS INDICATED ON ELEVATIONS.
   d. RAISED PICTOGRAMS: MINIMUM 1/32" RAISED SYMBOLS AS SHOWN ON ELEVATIONS.
   e. BRAILLE: GRADE II, SAME COLOR AS SIGN FACE
   f. MOUNTING METHOD: ADHESIVE TAPE MOUNT.
   g. FOLLOW SIGNAGE MOUNTING HEIGHTS FOR TYPICAL MOUNTING APPLICATIONS. SEE SIGNAGE PLAN AND SIGNAGE SCHEDULE FOR ATYPICAL MOUNTING INFORMATION.

FINISH LEGEND

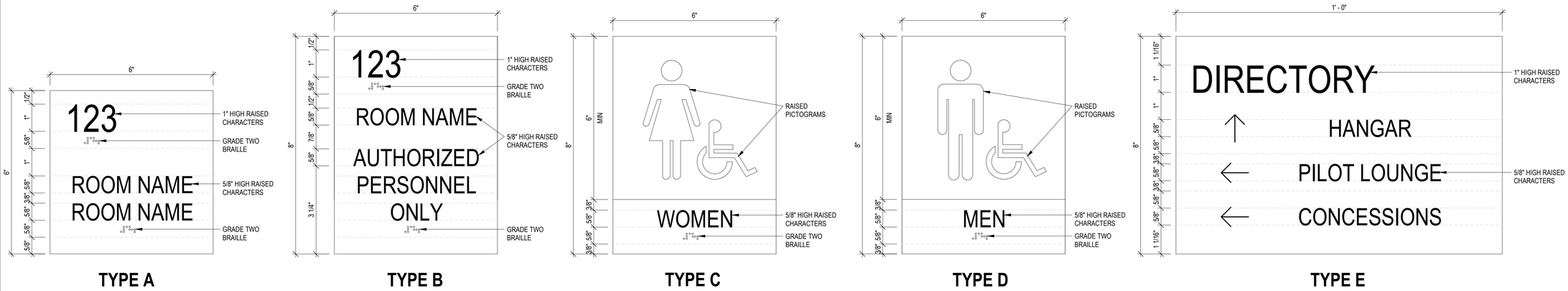
TAG	MATERIAL	MANUFACTURER	STYLE / TYPE / COLOR	FINISH	SIZE	INSTALLATION
APC1	ACOUSTICAL PANEL CEILING	ARMSTRONG CEILINGS	ULTIMA 1911 15/16" BEVELED TEGULAR / WHITE	-	24" X 24" X 3/4"	-
CPT1	CARPET TILE - WALK OFF	TARKETT	ABRASIVE ACTION II 02578 / WINTER GRAY 19103	-	24" X 24"	MONOLITHIC
CPT2	CARPET TILE	TARKETT	SQUARE UP 04990 / BALI BLUE 71616	-	24" X 24"	VERTICAL ASHLAR
EPX1	EPOXY FLOORING	DUR-A-FLEX	DUR-A-QUARTZ / Q28-24	-	-	-
EPXB1	EPOXY FLOORING - BASE	DUR-A-FLEX	DUR-A-QUARTZ / INTEGRAL COVE BASE / Q28-24	-	-	-
GR1	GROUT	CUSTOM BUILDING PRODUCTS	#545 BLEACHED WOOD	-	-	INSTALL WITH PT1 AND MT1
IRP1	IMPACT RESISTANT PANEL	CONSTRUCTION SPECIALTIES	ACROVYN 4000 / .040" THICK / 1472 PUTTY	SUEDE	-	36" AFF, RAILROADED, INSTALL ABOVE SCHEDULED BASE
LVT1	LUXURY VINYL TILE - FIELD	TARKETT	ARTIFICE / PCAR HONED METAL 10771	-	12" X 36"	INSTALL AS INDICATED ON THE FINISH PLAN
LVT2	LUXURY VINYL TILE - ACCENT	TARKETT	ARTIFICE / PCAR PILLAR 10773	-	12" X 36"	INSTALL AS INDICATED ON THE FINISH PLAN
MT1	MOSAIC TILE - CASEWORK BACKSPLASH	DALTILE	PERFIT MOSAIX / CALACATTA DOLOMITI PT31 / MARBLE 2X6 STRAIGHT STACK	HONED	18" X 12-3/16" X 5/16" SHEET	INSTALL AS INDICATED ON INTERIOR ELEVATIONS
PLAM1	PLASTIC LAMINATE - CASEWORK	WILSONART	5TH AVE ELM 7966K-12 / AEON SCRATCH RESISTANCE	SOFTGRAIN	-	-
PNT1	PAINT - FIELD	SHERWIN WILLIAMS	SW 7005 PURE WHITE	EGGSHELL	-	-
PNT2	PAINT - CEILING	SHERWIN WILLIAMS	SW 7757 HIGH REFLECTIVE WHITE	FLAT	-	-
PNT3	PAINT - ACCENT	SHERWIN WILLIAMS	SW 7602 INDIGO BATIK	EGGSHELL	-	-
PNT4	PAINT - HM DOORS AND FRAMES	SHERWIN WILLIAMS	SW 7018 DOVETAIL	SEMI-GLOSS	-	-
PT1	PORCELAIN TILE - WALL	DALTILE	ARTICULO / EDITORIAL WHITE AR06	MATTE	6" X 18" X 3/8"	STAGGERED BRICK - JOINT PATTERN. UTILIZE COORDINATING TRIM 12" JOLLY S1/212J FOR TRIM WHERE REQUIRED.
RB1	RUBBER BASE	TARKETT	BASEWORKS THERMOSET / 29 MOON ROCK	-	4"H	INSTALL NO TOE STYLE ON CARPET TILE AND TOE STYLE ON RESILIENT FLOORING
S1	SIGNAGE - INTERIOR	2/90 SIGNS	FLXSIGN / BACKER COLOR: 711 ASH / COPY COLOR: 708 SOFT WHITE	-	-	-
S2	SIGNAGE - DIMENSIONAL	WOODLAND MANUFACTURING	ALUMINUM LETTERS - NATURAL SATIN / FONT TYPE: CENTURY GOTHIC	NATURAL SATIN	1" THICK	REFERENCE THE INTERIOR ELEVATIONS FOR DIMENSIONS AND MOUNTING LOCATION
SD1	SOLID SURFACE - CASEWORK, WINDOW STOOLS, & RECEPTION DESK	LX HAUSYS	HI-MACS / AURORA GRAY M608	-	-	-
SD2	SOLID SURFACE - RECEPTION DESK	LX HAUSYS	HI-MACS / URBAN CONCRETE G316	-	-	-
TP1	TOILET PARTITIONS	ASI GLOBAL PARTITIONS	STAINLESS STEEL / DIAMOND PATTERN FINISH	-	-	-
TR1	TRANSITION - FLOOR	SCHLUTER	VINPRO-S 1/8" VPS 30 ATGB / BRUSHED NICKEL ANODIZED ALUMINUM	-	FIELD VERIFY PRIOR TO ASSEMBLY	REFERENCE THE FLOOR TRANSITION DETAILS FOR MORE INFO
TR2	TRANSITION - FLOOR	SCHLUTER	VINPRO-T 1" VPTL 3/25 ATGB / BRUSHED NICKEL ANODIZED ALUMINUM	-	FIELD VERIFY PRIOR TO ASSEMBLY	REFERENCE THE FLOOR TRANSITION DETAILS FOR MORE INFO
TR3	TRANSITION - FLOOR	TARKETT	REDUCER 1/8" SSR-XX-B / 29 MOON ROCK	-	FIELD VERIFY PRIOR TO ASSEMBLY	REFERENCE THE FLOOR TRANSITION DETAILS FOR MORE INFO
TR4	TRANSITION - FLOOR	TARKETT	REDUCER 3/8" CRS-XX-B / 29 MOON ROCK	-	FIELD VERIFY PRIOR TO ASSEMBLY	REFERENCE THE FLOOR TRANSITION DETAILS FOR MORE INFO
TR6	TRANSITION - WALL	SCHLUTER	JOLLY 5/16" A 80 AT / SATIN NICKEL ANODIZED ALUMINUM	-	FIELD VERIFY PRIOR TO ASSEMBLY	INSTALL PLUMB AT MT1'S EXPOSED TILE EDGES AT BACKSPLASH.
WD1	WOOD DOOR	VT INDUSTRIES	SPECIES: SELECT WHITE MAPLE / STAIN COLOR: RIVERSTONE R118	-	-	-

EQUIPMENT SCHEDULE

TAG	DESCRIPTION	CFCI	OFCI	REQUIRES POWER / DATA	REQUIRES PLUMBING	REQUIRES BLOCKING	MANUFACTURER / MODEL
CM	COFFEEMAKER	-	X	X	X	-	TO BE DETERMINED BY OWNER. INFRASTRUCTURE IN PLACE FOR RECOMMENDED PRODUCT: KEURIG COMMERCIAL / K-3500 / FINISH: BLACK AND SILVER / 12.4"W x 19"D x 17.25"H
MD	MONITOR DISPLAY	-	X	X	-	X	TO BE DETERMINED BY OWNER
MW	MICROWAVE DRAWER	-	X	X	-	-	TO BE DETERMINED BY OWNER
RF	REFRIGERATOR - UNDERCOUNTER ADA	-	X	X	-	-	TO BE DETERMINED BY OWNER. INFRASTRUCTURE IN PLACE FOR ADA HEIGHT SPECIFIC PRODUCT ONLY.
VM	VENDING MACHINE - EXISTING	-	-	X	-	-	-

SIGNAGE SCHEDULE

ROOM NUMBER	ROOM NAME	SIGN TYPE	SIGN TEXT
100	LOBBY	E	SEE SIGN TYPICAL FOR TEXT
100C	VEST	A	HANGAR
100C	VEST	A	
101A	STORAGE	A	STORAGE
102	WOMEN TLT	C	WOMEN
103	MEN TLT	D	MEN
104	MECH	B	MECHANICAL AUTHORIZED PERSONNEL ONLY
105	PILOTS LOUNGE	A	PILOT'S LOUNGE



A1 TYPICAL SIGNAGE (S1 TYPE)
6" = 1'-0"

GRAPHIC SCALE
6"=1'-0" 0 1" 2" 3" 6"

WOOLPERT
ARCHITECTURE | ENGINEERING | GEOSPATIAL
4454 IDEA CENTER BOULEVARD
DAYTON, OH 45430-1500
800.414.1045

100%
SUBMITTAL

PRELIMINARY
NOT FOR CONSTRUCTION

ISSUANCE SCHEDULE

NUMBER	DESCRIPTION	DATE

GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT

INTERIOR TERMINAL I19 RENOVATION

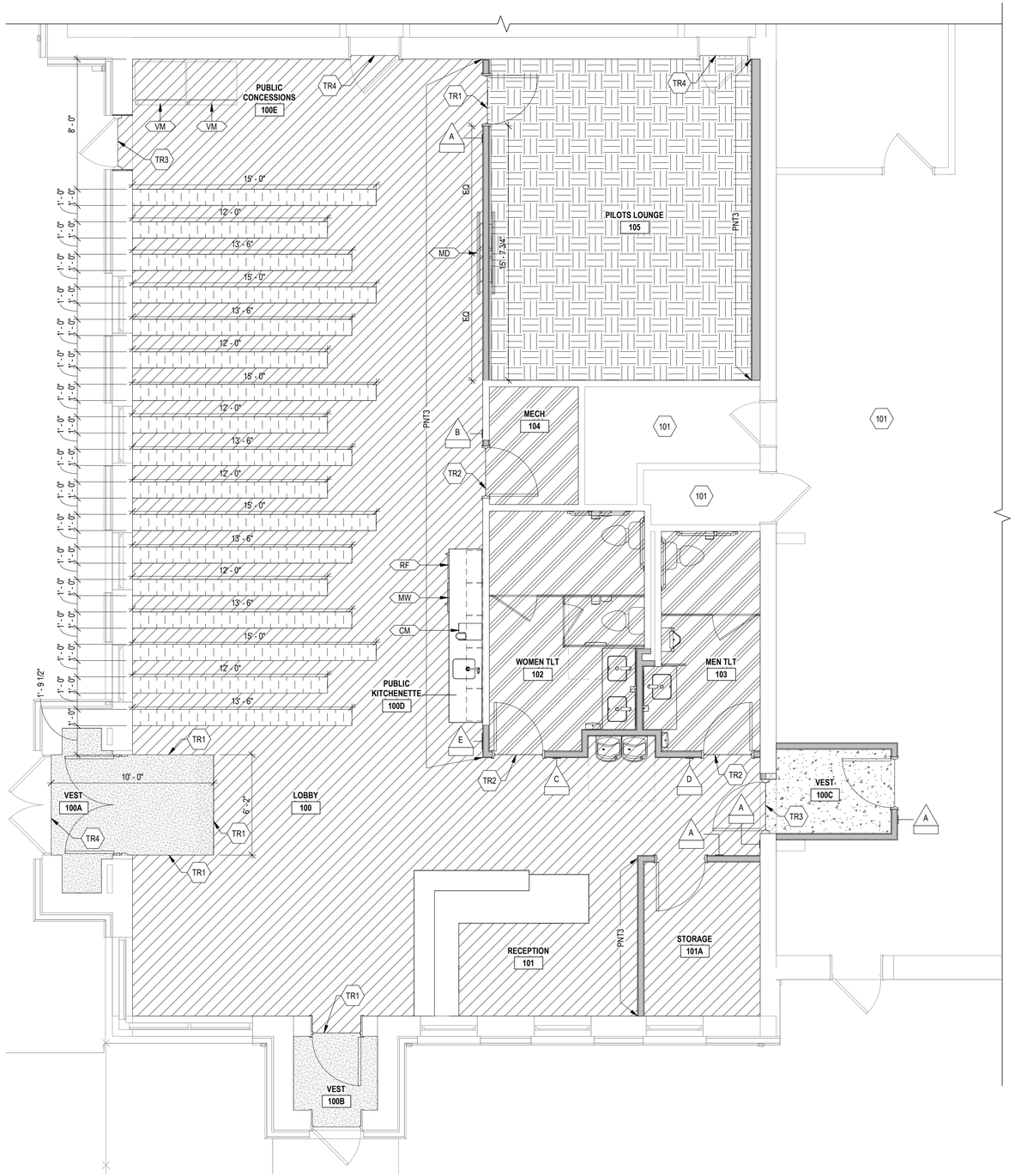
140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 02/20/2023

DESIGNED BY: F. HEISTERKAMP
DRAWN BY: F. HEISTERKAMP
CHECKED BY: K. BARKER

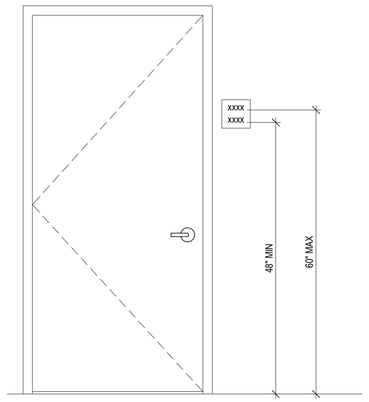
SHEET NAME:
FINISH, EQUIPMENT AND SIGNAGE SCHEDULE

SHEET NO:
A-701



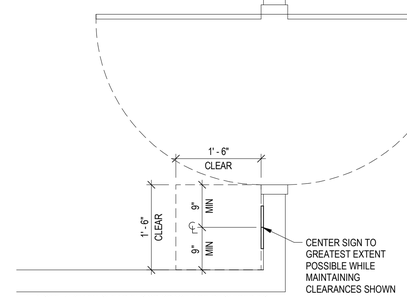
A1 FINISH, EQUIPMENT AND SIGNAGE PLAN

1/4" = 1'-0"



TYPICAL MOUNTING HEIGHT REQUIREMENTS

TYPICAL WALL PLACEMENT
ADJACENT TO DOOR AT SWINGING
(IN OR OUT) SINGLE DOORS



NOTE: 1'-6" MIN CLEAR FLOOR SPACE ARE REQUIRED TO MOUNT SIGN AT THIS LOCATION.

B5 SIGNAGE MOUNTING DIAGRAM

3/4" = 1'-0"

GENERAL NOTES:

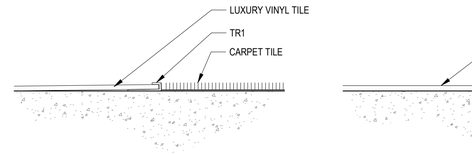
A. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD.
B. ALL EXISTING MATERIALS TO REMAIN WHICH ARE DAMAGED OR OTHERWISE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE PATCHED AND REPAIRED TO MATCH EXISTING ADJACENT MATERIALS SO THAT REPAIR IS IMPERCEPTIBLE.
C. ON ALL ARCHITECTURAL SHEETS, ALL MATERIALS NOTED ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING. ALL MATERIALS NOTED AS EXISTING SHALL REMAIN UNLESS SPECIFICALLY NOTED TO BE REMOVED. SEE DEMOLITION AND NEW WORK NOTES FOR SPECIFIC NOTES.
D. ALL FLOOR FINISH TRANSITIONS SHALL BE CONCEALED BY A CLOSED DOOR.
E. HATCH PATTERNS ON FINISH PLANS ARE REPRESENTATIONAL ONLY TO DISTINGUISH COLOR CHANGES, UNLESS OTHERWISE NOTED.
F. ALL WOOD DOORS TO BE WD1.
G. ALL HOLLOW METAL DOORS AND FRAMES TO BE PAINTED, PNT4.
H. ALL EXTERIOR WINDOWS TO INCLUDE WINDOW STOOL, SD1.
I. ALL INTERIOR SIGNAGE TO BE S1.

SHEET KEYNOTES:

101	NO WORK, EXISTING TO REMAIN
TR1	LUXURY VINYL TILE TO CARPET TILE TRANSITION.
TR2	LUXURY VINYL TILE TO EPOXY FLOORING TRANSITION
TR3	LUXURY VINYL TILE TO CONCRETE TRANSITION
TR4	CARPET TILE TO CONCRETE TRANSITION

LEGEND:

- CPT1 (CARPET TILE - WALK OFF)
- CPT2 (CARPET TILE)
- EPX1 (EPOXY FLOORING)
- LVT1 (LUXURY VINYL TILE)
- LVT2 (LUXURY VINYL TILE)
- EX CONC (EXISTING CONCRETE)



WHERE LUXURY VINYL TILE MEETS CARPET TILE FLOORING

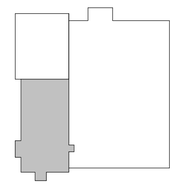
WHERE LUXURY VINYL TILE MEETS EPOXY FLOORING

WHERE LUXURY VINYL TILE MEETS SEALED CONCRETE FLOORING

WHERE CARPET TILE MEETS CONCRETE FLOORING

A5 FLOOR TRANSITION DETAILS

6" = 1'-0"



KEY PLAN

NOT TO SCALE

PLAN NORTH

GRAPHIC SCALE

1/4"=1'-0" 0 2' 4' 8' 12'

3/4"=1'-0" 0 6" 1' 2' 3' 4'

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ISSUANCE SCHEDULE

NUMBER	DESCRIPTION	DATE

GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT

INTERIOR TERMINAL I19 RENOVATION

140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 02/20/2023
DESIGNED BY: F. HEISTERKAMP
DRAWN BY: F. HEISTERKAMP
CHECKED BY: K. BARKER

SHEET NAME:
FINISH, EQUIPMENT AND SIGNAGE PLAN

SHEET NO:
A-702

LIGHTING

	2'x4' LIGHT FIXTURE SHADING DENOTES EMERGENCY OPERATION
	RECESSED DOWNLIGHT SHADING DENOTES EMERGENCY OPERATION
	STRIP LIGHT
	TRACK LIGHT
	CEILING MOUNTED EXIT SIGN
	WALL MOUNTED EXIT SIGN
	EMERGENCY FIXTURE
A2b	LIGHT FIXTURE CALLOUT DENOTES SWITCH LEG DENOTES CIRCUIT NUMBER DENOTES FIXTURE TYPE
S	SINGLE POLE SWITCH
S3	3-WAY SWITCH
S4	4-WAY SWITCH
SLV	LOW VOLTAGE SWITCH
SD	DIMMER SWITCH
SOS	OCCUPANCY SENSOR SWITCH
OS	CEILING MOUNTED OCCUPANCY SENSOR

POWER

	SIMPLEX RECEPT.
	DUPLEX RECEPT.
TV	DUPLEX RECEPT. FOR TV
USB	DUPLEX RECEPT. WITH USB OUTLET
C	DUPLEX RECEPT. ABOVE COUNTERTOP
	GROUND FAULT PROTECTED DUPLEX RECEPT.
	FOURPLEX RECEPT.
	MULTI-POLE RECEPT.
J	JUNCTION BOX
Sm	MOTOR RATED TOGGLE SWITCH
	SAFETY DISC. SW. (NON-FUSED)
	SAFETY DISC. SW. (FUSED)
	MOTOR (SEE SCHEDULE)
	HALFTONE SYMBOLS INDICATES EXISTING
	DASHED SYMBOLS INDICATES TO BE REMOVED
	CIRCUIT BREAKER PANEL
X-#	HOME RUN TO PANEL GROUND NEUTRAL HOT PANEL-CIRCUIT NUMBER

NOTE: NOT ALL SYMBOLS ARE USED

TELECOM & SYSTEMS

	STANDARD TELECOMMUNICATIONS OUTLET.
TV	TELEPHONE/DATA OUTLET
	CCTV CAMERA (WALL MOUNTED)
X	CCTV CAMERA (CEILING MOUNTED)

ONE-LINE SYMBOLS

Panel Name MCB-MLO Ampacity Voltage No. Circuits Room No.	ONE-LINE PANEL
AMP/POLES	CIRCUIT BREAKER
XXX	WIRE CALLOUT

ABBREVIATIONS

1P	1 POLE (2P, 3P, 4P, ETC.)
A	AMPERE
AC	AIR CONDITIONER
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC FAULT CIRCUIT INTERRUPTER
AHU	AIR HANDLING UNIT
AL	ALUMINUM
APPX	APPROXIMATELY
ARCH	ARCHITECT, ARCHITECTURAL
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CP	CIRCULATING PUMP
CT	CURRENT TRANSFORMER
CTR	CENTER
CU	COPPER
DET	DETAIL
DISC	DISCONNECT
DIST	DISTRIBUTION
DS	DISCONNECT SWITCH
DT	DOUBLE THROW
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ELEV	ELEVATOR
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FLR	FLOOR
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GPR	GENERAL PURPOSE RECEPTACLE
GRS	GALVANIZED RIGID STEEL (CONDUIT)
HP	HORSEPOWER
HT	HEIGHT
HWB	HOT WATER BOILER
HWP	HOT WATER PUMP
IG	ISOLATED GROUND
LTG	LIGHTING
LV	LOW VOLTAGE
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MH	MANHOLE
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MSB	MAIN SWITCHBOARD
MTS	MANUAL TRANSFER SWITCH
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE
PB	PULL BOX OR PUSHBUTTON
PC	PLUMBING CONTRACTOR
PH	PHASE
PP	POWER POLE
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE (CONDUIT)
PWR	POWER
RCPT	RECEPTACLE
RSC	RIGID STEEL CONDUIT
RTU	ROOF TOP UNIT
SEC	SECONDARY
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STD	STANDARD
SW	SWITCH
SWBD	SWITCHBOARD
SYS	SYSTEM
TEL	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
UC	UNDER COUNTER
UE	UNDERGROUND ELECTRICAL
UG	UNDERGROUND
UH	UNIT HEATER
UT	UNDERGROUND TELEPHONE
UTIL	UTILITY
V	VOLT
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
W/	WITH
WG	WIRE GUARD
WH	WATER HEATER
W/O	WITHOUT
WP	WEATHERPROOF
WR	WEATHER RESISTANT
XFMR	TRANSFORMER
Ø	PHASE

GENERAL NOTES:

1. INSTALL ELECTRICAL SYSTEM IN ACCORDANCE WITH ALL STATE CODES, LOCAL CODES AND THE LATEST LOCALLY ADOPTED N.E.C. AND ITS APPENDICES, UNLESS OTHERWISE DIRECTED SPECIFICALLY BY THESE PLANS.
2. FOR CLARITY, ONLY EXISTING LIGHT FIXTURES, SWITCHES, RECEPTACLES, ETC. ARE SHOWN WHICH ARE PERTINENT TO THIS WORK.
3. FOR CLARITY, THE QUANTITY OF BRANCH CIRCUIT CONDUCTORS ARE NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL BRANCH CIRCUITRY. RECORD AS-BUILT CIRCUIT PATHS AND PRESENT DRAWINGS FOR ENGINEER VERIFICATION WHEN REQUESTED BY ENGINEER.
4. EXISTING CIRCUITS WITH NEW OR REVISED LOADS SHALL HAVE THE CIRCUIT DIRECTORY UPDATED TO REFLECT NEW LOAD.
5. REFER TO ARCHITECTURAL SHEETS FOR ALL FIRE-RATED PARTITION LOCATIONS AND RATINGS.
6. CONTRACTOR SHALL PROVIDE ALL FIRESTOPPING FOR CONDUIT OR CABLE TRAY PENETRATIONS THAT PENETRATE ACOUSTICAL RATED OR SMOKE AND FIRE RATED ASSEMBLIES. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL RATED ASSEMBLIES. ALL RATED PENETRATIONS SHALL BE FIRESTOPPED TO ORIGINAL ASSEMBLY RATING. ALL NON-RATED FLOOR PENETRATIONS SHALL BE SEALED WATER TIGHT WITH A FLEXIBLE SEALANT.
7. OPENINGS IN NEW WALLS AND FLOORS SHALL BE PLANNED AND COORDINATED WITH GENERAL CONTRACTOR FOR THE INSTALLATION OF APPROPRIATE SLEEVES. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CORE-DRILLS REQUIRED FOR INSTALLATION OF ELECTRICAL WORK.
8. PRIOR TO CORE DRILLING OR DESTRUCTIVE REMOVAL OF EXISTING FLOOR AREAS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH OWNER AND ELECTRONICALLY SCAN FLOOR FOR EXISTING CIRCUITRY, PIPING, ETC, WHICH MAY BE ENCOUNTERED AND BRING POTENTIAL CONFLICTS TO THE ATTENTION OF THE ENGINEER WHERE IN CONFLICT WITH ELECTRICAL INSTALLATION.
9. VERIFY AND COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF ALL DEVICES MOUNTED IN CASEWORK OR ABOVE COUNTERS WITH SPECIFIC EQUIPMENT FURNISHED. CONTRACTOR SHALL COORDINATE EXACT HEIGHT OF DEVICES DESIGNED AS OVER COUNTER WITH CASE WORK AND FURNITURE DRAWINGS. ROUTING OF CIRCUITRY INSTALLED IN CASEWORK, CABINETRIES, ETC. SHALL BE COORDINATED FOR PROPER CONCEALMENT AND FUNCTION OF CASEWORK, CABINETRIES, ETC.
10. VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION, TRENCHING OR DRILLING.
11. ON ALL ELECTRICAL TRENCHING THE ELECTRICAL CONTRACTOR SHALL REVISIT SITE IN 6 MONTHS AND CHECK TRENCHES FOR SETTLEMENT. ADDITIONAL BACKFILL AND RE-SEEDING SHALL BE DONE FOR PROPER GRADE LEVELING. THE ELECTRICAL CONTRACTOR SHALL BEAR ALL COSTS.
12. IN THE SPACE ABOVE THE CEILING USED AS A RETURN AIR PLENUM, THE ELECTRICAL CONTRACTOR SHALL INSURE THAT ALL ELECTRICAL WIRING, CABLES, BUSHINGS AND CABLE TIES ARE PLENUM RATED.
13. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ACCESS PANELS REQUIRED FOR ELECTRICAL WORK.
14. CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING AS REQUIRED FOR HIS WORK. OPENINGS IN WALLS, FLOORS AND CEILINGS SHALL BE FILLED IN, PATCHED, PAINTED AND FINISHED IN A MANNER TO MATCH THE QUALITY OF THE EXISTING AREA.
15. ALL EXPOSED METAL CONDUITS ARE TO BE PAINTED TO MATCH THE ADJACENT SURFACE. PAINTING OF CONDUIT IS TO BE BY THE ELECTRICAL CONTRACTOR.
16. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED JUNCTION BOXES, PULL BOXES, ETC. FOR A COMPLETE INSTALLATION PER THE N.E.C. AND LOCAL CODES.
17. ALL CONDUCTORS AND EQUIPMENT LUGS SHALL BE RATED FOR 75 DEGREE CELSIUS MINIMUM.
18. ALL ITEMS INCLUDED ON THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE INCLUDED IN THE CONTRACTORS BID. ANY ITEMS THAT ARE UNCLEAR OR FOUND TO BE INCORRECT BY THE CONTRACTOR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AT LEAST 7 CALENDAR DAYS PRIOR TO THE BID DUE DATE.
19. COORDINATE WORK WITH OTHER TRADES. COORDINATION OR SCHEDULING SHALL BE THE RESPONSIBILITY OF THE INVOLVED CONTRACTORS.
20. ALL CIRCUIT DIRECTORIES SHALL BE COORDINATED WITH OWNER FOR CORRECT CALL-OUT OF ROOM NUMBERS/ROOM NAMES.
21. IN AREAS WHERE SYSTEM CABLING GOES THROUGH CMU WALLS THE ELECTRICAL CONTRACTOR SHALL PROVIDE 3/4" CONDUIT STUB (MINIMUM) FOR ROUTING OF CABLES. ELECTRICAL CONTRACTOR TO SEAL AROUND CONDUIT OPENING.

LIGHTING & POWER NOTES:

1. LIGHT FIXTURES DESIGNATED AS "NIGHT LIGHTS" SHALL BE ON UNSWITCHED CIRCUIT, UNLESS NOTED.
2. LIGHT FIXTURES DESIGNATED AS "EMERGENCY LIGHTS" SHALL BE SWITCHED AND PROVIDED WITH EMERGENCY DRIVER ON UNSWITCHED CIRCUIT (SAME CIRCUIT AS SWITCH LEG), UNLESS NOTED.
3. EXIT LIGHTS SHALL BE ON UNSWITCHED CIRCUIT, UNLESS NOTED.
4. ALL RECESSED DOWNLIGHTS MOUNTED IN GRID CEILING SHALL BE CENTERED IN CEILING TILE, UNLESS NOTED.
5. VERIFY CEILING TYPES PER THE ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE APPROPRIATE TYPE FIXTURE, LAY-IN FOR GRID, FLANGE FOR DRYWALL, ETC.
6. IN ALL MECHANICAL ROOMS COORDINATE EXACT LOCATION OF LIGHT FIXTURES WITH HVAC AND PLUMBING EQUIPMENT AND HVAC DUCTWORK.
7. CONDUCTORS FOR BRANCH CIRCUITRY ARE #12 AWG MINIMUM, UNLESS NOTED.
8. ALL HOMERUN CONDUCTORS BACK TO PANEL SHALL BE #10 AWG MINIMUM, UNLESS NOTED.
9. ALL WIRING SHALL BE INSTALLED IN 3/4" CONDUIT, MINIMUM, UNLESS NOTED OTHERWISE. CONDUIT SHALL BE CONCEALED IN CEILING OR WALLS WHEREVER POSSIBLE.
10. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC, UNLESS NOTED OTHERWISE. UNDERGROUND PVC CONDUITS SHALL HAVE RIGID GALVANIZED STEEL ELBOWS.
11. ALL SWITCHES AND RECEPTACLES DESIGNATED TO BE RELOCATED SHALL BE PROVIDED WITH NEW DEVICE AND COVER PLATE.
12. PROVIDE A GREEN GROUND CONDUCTOR IN ALL BRANCH CIRCUITRY. REFER TO SPECS FOR OTHER GROUNDING CONDUCTOR TYPES. GROUNDING BY MEANS OF RACEWAY SHALL NOT BE PERMITTED.
13. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR ALL SINGLE POLE CIRCUITS. SHARING OF NEUTRALS SHALL NOT BE PERMITTED.
14. ALL CONDUIT DROPS FOR PLENUM RATED CABLES SHALL BE PROVIDED WITH A CONDUIT BUSHING ABOVE THE CEILING.
15. WHERE TERMINATED IN A J-BOX, ALL SPARE CIRCUITRY SHALL BE LABELED WITH PANEL AND CIRCUIT NUMBER.
16. COORDINATE ELECTRICAL REQUIREMENTS FOR NEW OR RENOVATED WORK WITH THE PLUMBING AND MECHANICAL CONTRACTORS. VERIFY VOLTAGE, PHASE AND ACCESSORY REQUIREMENTS, SUCH AS MOTOR STARTERS AND DISCONNECTS. PROVIDE ALL NECESSARY AUXILIARY CONTACTS, RELAY, ETC. IN MOTOR STARTERS FOR REQUIRED CONTROL OF MECHANICAL EQUIPMENT.
17. WHEN A DEVICE IS REMOVED AND RE-INSTALLED, DEVICE SHALL BE CLEANED BEFORE RE-INSTALLATION.
18. ALL LIGHT FIXTURES ARE TO BE SUPPORTED BY SUPPORT WIRES DIRECTLY FROM STRUCTURE ABOVE AND NOT FROM CEILING GRID SUPPORTS. CONDUIT AND CIRCUITRY TO BE SUPPORTED INDEPENDENTLY AND NOT FROM LIGHT FIXTURE SUPPORT WIRES.
19. DO NOT SUPPORT CONDUIT OFF OF CEILING GRID, CEILING GRID SUPPORTS, MECHANICAL SUPPORTS, OR ANY OTHER TRADE'S SUPPORTS. INSTALL CONDUITS AND BOXES ON SEPARATE SUPPORTS FROM BAR JOIST OR STRUCTURE.
20. DO NOT SUPPORT ELECTRICAL EQUIPMENT AND DEVICES FROM METAL ROOF DECK. PROVIDE SUPPORT FROM CONCRETE SLABS, BAR JOISTS, STRUCTURAL BEAMS, COLUMNS OR UNISTRUT BETWEEN STRUCTURAL ELEMENTS.
21. ALL GFCI TYPE RECEPTACLES TO BE INSTALLED AS SEPARATELY CONNECTED RECEPTACLES. FEED-THROUGH OR GFI TYPE BREAKERS NOT ALLOWED UNLESS NOTED OTHERWISE.
22. ALL RECEPTACLES OR J-BOX LOCATIONS FOR POWER TO ELECTRIC WATER COOLERS SHALL BE COORDINATED WITH THE INSTALLATION LOCATIONS OF THE ELECTRIC WATER COOLERS, UNLESS NOTED. ALL CIRCUITS FOR WATER COOLERS ARE TO BE GFCI PROTECTED.
23. ALL DASHED CIRCUITRY IS ROUTED BELOW FLOOR SLAB OR BELOW GRADE UNLESS NOTED OTHERWISE.
24. FIXTURE WHIPS (HEAT LOOPS) (#18 GA. WITH GROUND IN FLEXIBLE CONDUIT OR MC CABLE EXTENDED FROM HARD-PIPED JUNCTION BOXES) MAY BE USED FOR A FEED TO A SINGLE LIGHT FIXTURE UNIT ONLY. FIXTURE WHIPS FEEDING MULTIPLE LIGHT FIXTURES MAY NOT BE USED.

DEVICE MOUNTING HEIGHT (TO TOP OF DEVICE):

COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL PLANS AND ELEVATIONS.

1. RECEPTACLES MOUNTED AT 20" AFF, UNLESS NOTED.
2. SWITCHES MOUNTED AT 48" AFF, UNLESS NOTED.
3. TELECOM OUTLETS MOUNTED AT 20" AFF, UNLESS NOTED.
4. "C" DEVICES TO BE MOUNTED ABOVE COUNTER AND BACKSPLASH. COORDINATE WITH ARCHITECTURAL DRAWINGS AND APPROVED SHOP DRAWINGS FOR CASEWORK.
5. "TV" DEVICES TO BE MOUNTED AT 68" AFF. COORDINATE WITH ARCHITECTURAL DRAWINGS.

DEMOLITION NOTES:

1. THE DEMOLITION DRAWINGS ARE DERIVED FROM FIELD OBSERVATIONS AND EXISTING DRAWINGS. NOT ALL DEVICES ARE SHOWN. SOME WERE HIDDEN DURING SITE INVESTIGATIONS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL DEMOLITION WORK REQUIRED FOR THE INSTALLATION OF NEW ELECTRICAL WORK AND WORK REQUIRED BY OTHER TRADES.
2. THE ELECTRICAL CONTRACTOR SHALL NOTE ANY EXISTING DAMAGE ON CEILING TILES, LIGHT FIXTURES, WALLS, FLOORS, FURNITURE, PAVING, ETC. PRIOR TO THE START OF ANY WORK. THE CONTRACTOR SHALL PHOTOGRAPH THESE ITEMS AND SUBMIT THEM TO THE ENGINEER BEFORE BEGINNING WORK.
3. ALL EXISTING CEILING TILES TO REMAIN WHICH ARE DAMAGED BY THIS CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED WITH NEW CEILING TILES (MATCHING EXISTING) AT THIS CONTRACTOR'S EXPENSE.
4. ALL LIGHT FIXTURES, RECEPTACLES, TELECOMMUNICATION DEVICES, ETC. TO BE REMOVED SHALL HAVE OPENINGS PATCHED TO MATCH EXISTING CONDITIONS. NOTE THAT SOME LOCATIONS MAY BE ABLE TO BE REUSED. ALL CUTTING AND PATCHING OF ELECTRICAL WORK SHALL BE BY THE ELECTRICAL CONTRACTOR.
5. ALL DEMO'D CIRCUITS WITH NO REMAINING LOAD SHALL BE RE-LABELED "SPARE" IN EXISTING PANELS.
6. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MOVING AND PROTECTING ALL OWNER OWNED FURNITURE, EQUIPMENT ETC. AS REQUIRED TO PERFORM THE WORK OF THIS PROJECT.
7. THE ELECTRICAL CONTRACTOR SHALL DISPOSE OF ALL DEMOLISHED EQUIPMENT EXCEPT WHERE NOTED OTHERWISE.
8. WHEN A DEVICE IS REMOVED THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED CIRCUITRY TO MAINTAIN CONTINUITY OF ALL DOWNSTREAM DEVICES TO REMAIN.
9. ALL ITEMS TO BE REMOVED SHALL BE DISPOSED OF PROPERLY OFFSITE OR TURNED OVER TO THE OWNER AT THE OWNER'S DISCRETION.

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ROBERT D. VOISARD
E-79035
REGISTERED PROFESSIONAL ENGINEER
02/20/2023

ISSUANCE SCHEDULE

NUMBER	DESCRIPTION	DATE

GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT

INTERIOR TERMINAL I19 RENOVATION

140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 02/20/2023

DESIGNED BY: R. VOISARD
DRAWN BY: R. VOISARD
CHECKED BY: P. DIETERLEN

SHEET NAME:
ELECTRICAL LEGENDS

SHEET NO:
E-001

ELECTRICAL SPECIFICATIONS

COMPLIANCE WITH CODES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE MOST RECENTLY ADOPTED NATIONAL ELECTRIC CODE, INTERNATIONAL BUILDING CODE, NFPA 72, 99, AND 101, OHSA REQUIREMENTS, AND ALL REGULATIONS LAWS, AND ORDINANCES WHICH MAY BE APPLICABLE. ALL ELECTRICAL MATERIAL SHALL BE LISTED BY UL (UNDERWRITER'S LABRATORIES, INC.).

PERMITS, LICENSES, AND INSPECTION FEES

1. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITES, LICENSES, AND INSPECTION FEES REQUIRED FOR THE ELECTRICAL INSTALLATION SHOWN ON THE DRAWINGS.

GUARANTEE

1. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE THE ENTIRE ELECTRICAL SYSTEM FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPATANCE BY OWNER AND SHALL MAKE ALL REQUIRED REPAIRS AND REPLACEMENTS AND RENDER FREE SERVICES, LABOR AND MATERIALS DURING THE GUARANTEE PERIOD.

QUALTIY OF INSTALLATION

1. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER AND SHALL FIT THE SPACE PROVIDED.

COORDINATION

1. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AS REQUIRED TO PROVIDE THE BEST OVERALL SYSTEMS INSTALLATION.
2. IN CASE OF CONFLICT, THE PROJECT COORDINATOR SHALL DECIDE THE PROPER LOCATION OR ARRANGEMENT, AND ANY COSTS IN REVISIONS OR RELOCATING EQUIPMENT OR MATERIAL SHALL BE AT THE EXPENSE OF THE CONTRACTOR RESPONSIBLE FOR THE WORK.

SEISMIC MOUNTING

1. THE ENTIRE INSTALLATION OF THIS PROJECT SHALL CONFORM TO CODES LISTED ABOVE.
2. SUSPENDED RECTANGULAR UNITS OF EQUIPMENT SHALL BE PROVIDED WITH A MINIMUM OF ONE SWAY BRACE AT EACH CORNER.
3. SUSPENDED RUNS OF CONDUIT AND BUSDUCT SHALL BE PROVIDED WITH TRANSVERSE AND LONGITUDINAL SWAY BRACING MEETING THE SPACING LIMITATIONS. PROVIDE A TRANSVERSE AND LONGITUDINAL SWAY BRACE AT THE BEGINNING AND END OF EACH CONTINOUS RUN GREATER THAN 12' AD WITHIN 24" OF ONE END OF EACH HORIZONTAL OFFSET OF 45 DEGREES OR MORE AND WITHIN 24" OF THE TOP AND BOTTOM OF EACH VERITCAL OFFSET.
4. LATERAL/TRANSVERSE SWAY BRACES SHALL BE INSTALLED WITIN 24" OF EVERY OTHER FLEXIBLE COUPLING NOT REQURIED FOR FLEXIBILITY DUE TO DIFFERENTIAL MOVEMENT OF CONDUIT.
5. LATERAL/TRANSVERSE SWAY BRACES SHALL BE INSTALLED AT THE END OF EACH RUN OF CONDUIT, ETC. 6' OR LONGER.
6. MAXIMUM SPACING OF TRANSVERSE AND LONGITUDINAL SWAY BRACING:
   EMT CONDUIT
   SINGLE HANGER SUPPORTED RUNS OF EMT CONDUIT LESS THAN 2-1/2"
   TRANSVERSE SWAY BRACING: MAX. SPACING 15'
   LONGITUDINAL SWAY BRACING: MAX. SPACING 80'
   SINGLE HANGER SUPPORTED RUNS OF EMT CONDUIT 2-1/2" AND LARGER
   TRANSVERSE SWAY BRACING: MAX. SPACING 20'
   LONGITUDINAL SWAY BRACING: MAX. SPACING 40'
7. FIXTURE IN SUSPENDED CEILING OVER 144 SQ FT
   A. FIXTURES UP TO 56 LBS REQUIRE TWO SUPPORT WIRES AND MUST BE POSITIVELY ATTACHED TO CEILING FRAMING MEMBERS.
   B. FIXTURES SUCH AS RECESSED CANS, EXIT SIGNS, OR SIMILIAR SMALL LIGHTWEIGHT FIXTURES REQUIRE ONE SUPPORT WIRE AND MUST BE POSITIVELY ATTACHED TO CEILING FRAMING MEMBERS.
   C. THE FIXTURE SUPPORT WIRE MAY BE USED TO ATTACH THE BRANCH CIRCUIT WIRING FOR THE FIXTURE.
   D. FIXTURES OVER 56 LBS NEED INDEPENDENT SUPPORT.

QUALITY ASSURANCE STANDARDS

1. COMPATIBILITY: PROVIDE PRODUCTS WHICH ARE COMPATIBLE WITH OTHER PRODUCTS OF THE ELECTRICAL WORK, AND WITH OTHER WORK REQUIRING INTERFACE WITH THE ELECTRCIAL WORK, INCLUDING ELECTRICAL CONNECTIONS AND CONTROL DEVICES. FOR EXPOSED ELECTRICAL WORK, COORDINATE COLORS AND FINISHED WITH OTHER WORK. DETERMINE IN ADVANCE OF PURCHASE THAT EQUIPMENT AND MATERIAL PROPOSED FOR INSTALLATION WILL FIT INTO THE CONFINES INDICATED, LEAVING ADEQUATE CLEARANCE AS REQUIRED BY APPLICABLE CODES, AND FOR ADJUSTMENT, REPAIR, OR REPLACEMENT.
2. ALL EQUIPMENT FURNISHED BY THE ELCTRICAL CONTRACTOR SHALL BE NEW AND HSALL BE OF THE LATEST, STANDARD CATALOG PRODUCTS. WHERE TWO OR MORE ITEMS OS THE SAME KIND ARE REQUIRED, THEY SHALL BE THE PRODUCT OF THE SAME MANUFACTURER.
3. THE WORK SHALL MEE THE STANDARDS SET FORTH IN THE APPLICABLE PORTIONS OF THE FOLLOWING RECOGNIZED CODES AND STANDARDS:
   A. ASSOCIATION OF EDISON ILLUMINATING COMPANIES (AEIC)
   B. CERTIFIED BALLAST MANUFACTURERS (CBM)
   C. FACTORY MUTUAL (FM)
   D. INSULATED CABLE ENGINEERING ASSOCIATION (ICEA)
   E. NATIONAL ELECTRIC CODE 2017 (NEC 2017)
   F. NATIONAL ELECTRICAL CONTRACTOR'S ASSOCIATION (NECA)
   G. NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION (NEMA)
   H. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
   I. UNDERWRITERS' LABRATORIES, INC. (UL)

START-UP AND TESTING

1. THE ELECTRICAL SYSTEM SHALL BE TESTED AND FOUND FREE OF DEFECTS (PRIOR TO UNATTENDED OPERATION) UPON COMPLETION OF THE INSTALLATION.

SHOP DRAWINGS

1. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO RELEASE OF ORDER FOR THE FOLLOWING:
   A. LIGHT FIXTURES
   B. WIRING DEVICES
   C. LIGHTING CONTROLS
   D. SAFETY AND DISCONNECT SWITCHES
   E. PANELBOARDS

MAINTENANCE MANUALS

1. SUBMIT TWO COPIES, INCLUDING WIRING DIAGRAMS, MAINTENANCE AND OPERATING INSTRUCTIONS, PARTS LISTING, AND COPIES OF ALL OTHER SUBMITTALS REQURED BY THE DIVISION. ORGANIZE EACH MAINTENANCE MANUAL WITH TABLE OF CONTENTS, INDEX, AND THUMB-TAB MARKED FOR EACH SECTION OF INFORMATION. DING IN 2", 3-RING BINDERS, VINYL COVERED, WITH POCKETS TO CONTAIN FOLDED SHEETS. PROPERLY LABEL CONTENTS ON SPINE AND FACE OF BINDER.

CUTTING AND PATCHING

1. ALL CUTTING THAT MAY BE NECESSARY FOR THE INSTALLATION OF THE WORK AND ANY REQUIRED PATCHING THAT RESULTS THEREFROM SHALL BE DONE BY THE PROPER TRADE INVOLVED AND SHALL BE INCLUDED AS PART OF THE ELECTRICAL CONTRACTOR'S WORK. COLUMNS, BEAMS, GIRDERS, OR JOISTS SHALL NOT BE CUT.

GENERAL

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION LIGHTING.
2. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUBMITTING A PROPOSAL AND SHALL FULLY ACQUAINT HIMSELF WITH ALL CONDITIONS AT THE SITE.
3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE NEW PANELBOARD CIRCUIT DIRECTORIES TO REFLECT ALL CHANGES MADE TO BRANCH CIRCUITS.

RACEWAYS

1. THE WIRING OF ELECTRICAL SYSTEMS SHALL BE MECHANICALLY PROTECTED. ALL FEEDERS SHALL BE ROUTED IN EMT. EXTERIOR CONDUIT SHALL BE GRS.
2. MC CABLE SHALL BE USED FOR BRANCH CIRCUITS IN EXISTING WALLS AND CEILINGS, SIX FOOT WHIP CONECTS FROM J-BOX TO LUMINAIRE AND FOR FLEXIBLE CONNECTION TO EQUIPMENT.
3. MC CABLE SHALL BE USED FOR A NORMAL BRANCH WIRING FOR LIGHT FIXTURES THAT ARE 7'-6" A.F.F
4. ALL CONDUITS SHALL BE INSTALLED IN A FIRST CLASS MANNER, RUN PARALLEL OR AT RIGHT ANGLES TO WALLS, BEAMS, OR COLUMS. NO "SHORT-CUT" DIAGONAL METHOD WILL BE ALLOWED. PROVIDE EXPANSION FITTINGS WHERE CONDUITS PASS THROUGH STRUCTURAL EXPANSION JOINTS.
5. MINIMUM CONDUIT SIZE SHALL BE 3/4".

OUTLET BOXES, PULL BOXES, AND CONDUIT FITTINGS

1. PROVIDE OUTLET BOXES, PULL BOXES, AND CONDUIT FITTINGS EQUAL TO THE APPLETON ELECTRIC COMPANY MODELS LISTED BELOW. STEEL CITY, NATIONAL AND RACO ARE ALSO ACCEPTABLE.
   A. LIGHTING BOXES (CONCEALED) - #4O-3/4
   B. LIGHTING BOXES (CONCRETE) - #OCR SERIES
   C. LIGHTING BOXES (EXPOSED) - #4S-3/4 OR 4O-3/4
2. SWITCH, RECEPTACLES, TELE/DATA, AND JUNCTION BOXES (FLUSH) - #4SD-3/4 OR #255 WHERE SEPERATE EXTENSION OR PLASTER RING CANNOT BE UTILIZED.

CONDUCTORS

1. PROVIDE SOLID COPPER CONDUCTORS TYPE THHN (90°C DRY), OR TWN (75°C WET OR DRY) FOR ALL CONDUCTORS NO. 10 AWG AND SMALLER. MINIMUM SIZE SHALL BE 12 AWG UNLESS OTHERWISE NOTED.
2. PROVIDE STRANDED COPPER CONDUCTORS TYPE RHW, THW, THWN (75°C WET OR DRY), OR THHN (90°C DRY) FOR ALL CONDUCTORS NO. 8 AWG OR LARGER.

WIRING DEVICES

1. WIRING DEVICES (SWITCHES AND RECEPTACLES) SHALL BE UL LISTED. ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE, RATED 20 AMPS. COLORS SHALL BE DETERMINED BY ARCHITECT.
2. ALL 120V RECEPTACLES ARE TO BE TAMPER RESISTANT.

ELECTRICAL SYSTEM IDENTIFICATION

1. CABLE/CONDUCTOR IDENTIFICATION: COORDINATE A UNIFORM AND CONSISTENT SCHEME OF COLOR IDENTIFICATION THROUGHOUT THE BUILDING SYSTEM. IDENTIFICATION SHALL BE BY THE PERMANENT COLOR OF THE SELECTED COVERING. ON LARGE CONDUCTORS, SECURE IDENTIFICATION BY MEANS OF PAINTED COLOR BONDING OR PLASTIC TAPE. COLOR SCHEME SHALL BE AS FOLLOWS:
   A. 120/240 VOLT
      a. PHASE A: BLACK
      b. PHASE B: RED
      c. NEUTRAL: WHITE
      d. GROUND: GREEN
2. IDENTIFICATION OF EQUIPMENT:
   A. ALL MAJOR EQUIPMENT SHALL HAVE A MNUFACTURER'S LABEL IDENTIFYING THE MANUFACTURER'S ADDRESS EQUIPMENT MODEL AND SERIAL NUMBER, EQUIPMENT SIZE, AND OTHER PERTINENT DATA. CARE SHALL BE TAKEN NOT TO OBLITERATE THIS NAMEPLATE IN ANY WAY.
   B. A BLACK-WHITE LAMINATED PLASTIC ENGRAVED IDENTIFYING NAMEPLATE SHALL BE SECURED BY SCREW TO EACH PANELBOARD, AND INDIVIDUAL MOTOR STARTER OR DISCONNECT SWITCH. IDENTIFYING NAMEPLATES SHALL HAVE 1/2" HIGH ENGRAVED LETTERS. EACH SWITCHBOARD, DISTRIBUTION PANEL, AND MOTOR CONTROL CENTER DEVICES SHALL HAVE A NAMEPLATE SHOWING THE LOAD SERVED IN 1/4" HIGH ENGRAVED LETTERS.
   C. CARDHOLDERS AND DIRECTORY CARDS SHALL BE FURNISHED FOR CIRCUIT IDENTIFICATION IN PANELBOAR. CARDHOLDERS SHALL BE LOCATED ON INSIDE OF PANEL DOOR AND SHALL BE IN A METAL FRAME WITH CLEAR PLASTIC FRONT. CIRCUIT LISTS SHALL BE TYPEWRITTEN. CIRCUIT DESCRIPTION SHALL INCLUDE THE NAME OR EACH ITEM OF EQUIPMENT SERVED.
   D. RECEPTACLES SHALL HAVE THE PANEL AND CIRCUIT NUMBER LOCATION ON BACK SIDE OF COVER PLATE.

GROUNDING

1. GROUNDING SHALL MEET CRITERIA SET FORTH IN SECTION 250-50 OF THE NATIONAL ELECTRIC CODE.

SAFETY SWITCHES

1. PROVIDE SAFETY SWITCHES THAT ARE SINGLE-THROW WITH NON-TEASIBLE POSITIVE QUICK-MAKE, QUICK-BREAK CONTACT MECHANISM, FUSIBLE OR NON-FUSIBLE AS INDICATED DUAL HORSEPOWER RATED, DEAD-FRONT, AND FRONT ACCESSIBLE. THE SWITCH HANDLE SHALL PHYSICALLY INDICATE THE "ON" AND "OFF" POSITIONS AND SHALL BE CAPABLE OF BEING PADLOCKED IN EITHER POSITION.
2. THE SAFETY SWITCHED SHALL BE HEAVY DUTY RATED AS MANUFACTURED BY SQUARE D, ITE (SIEMENS), CUTLER HAMMER OR GENERAL ELECTRIC.

LIGHT FIXTURES

1. LIGHTING EQUIPMENT IS SHOWN ON THE FIXTURE SCHEDULE ON THE DRAWINGS TO ESTABLISH GENERAL REQUIREMENTS AND MINIMUM QUALITY.
2. LIGHT FIXTURES SHALL BE EQUIPPED WITH PROPER ACCESSORIES, LENSES LOUVERS, REFLECTORS, SHIELDS, HANGERS, CLIPS, FRAMES, LAMPS, BALLASTS, DRIVERS, AND OTHER CONSTRUCTION FEATURES, AND SHALL BE PROPERLY PAINTED FOR PROTECTION AND PRESERVATION APPROPRIATE TO THE PLACE INSTALLED.
3. ALL LIGHT FIXTURES SHALL BE UL APPROVED AND SHALL BEAR IBEW LABELS.

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STATE OF OHIO
ROBERT D. VOISARD
E-79035
REGISTERED PROFESSIONAL ENGINEER
02/20/2023

PRELIMINARY NOT FOR CONSTRUCTION

ISSUANCE SCHEDULE

NUMBER	DESCRIPTION	DATE

GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT

INTERIOR TERMINAL I19 RENOVATION

140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 12/02/22

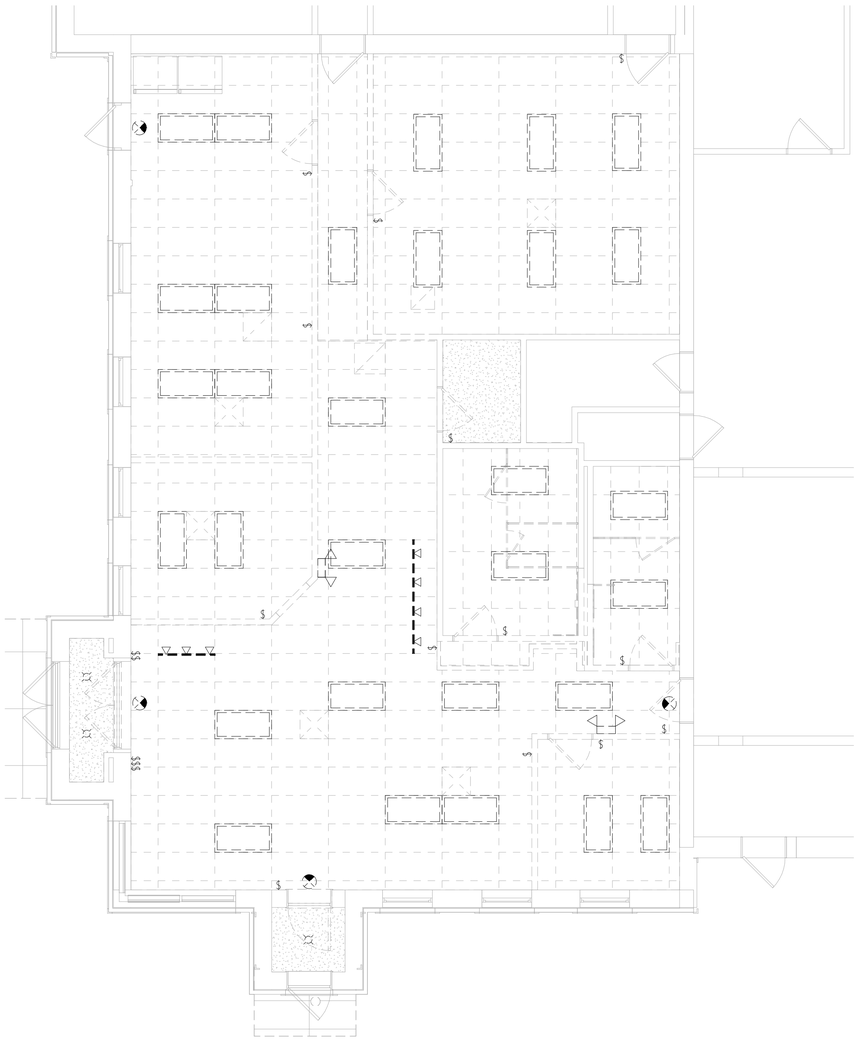
DESIGNED BY: R. VOISARD
DRAWN BY: R. VOISARD
CHECKED BY: P. DIETERLEN

SHEET NAME:
SPECIFICATIONS

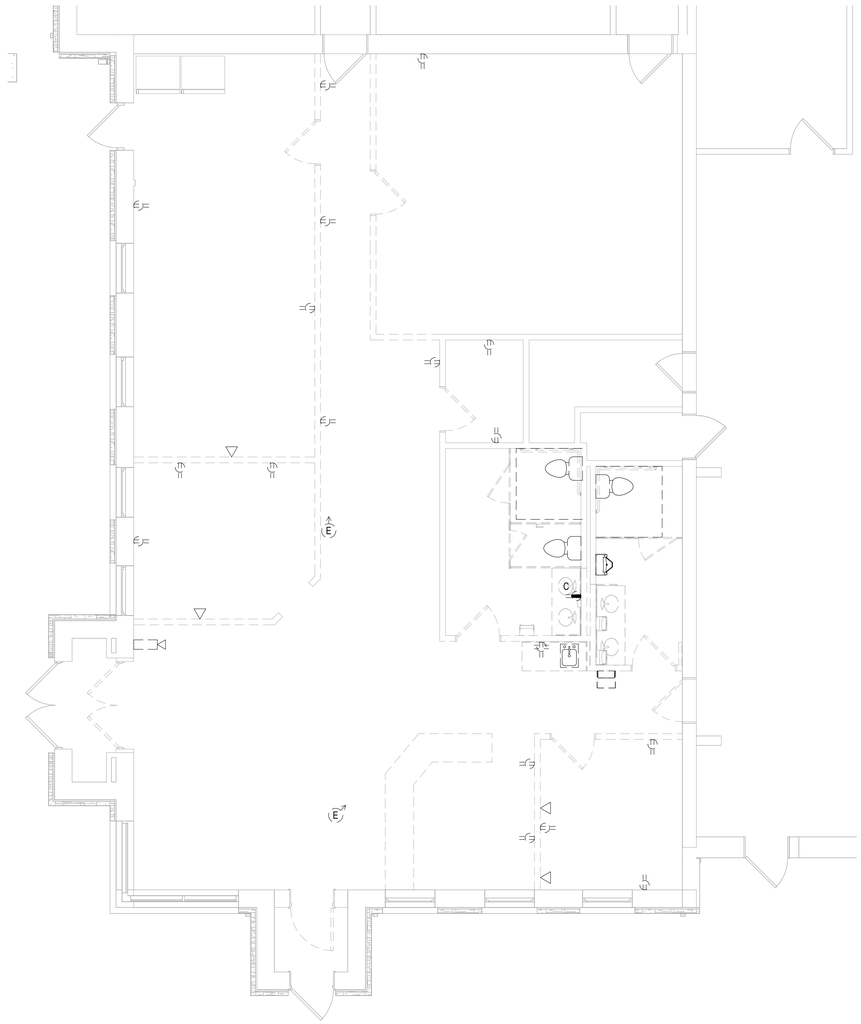
SHEET NO:
E-002

GENERAL NOTES:

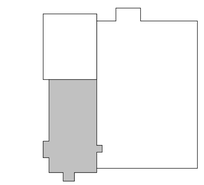
1. UNLESS NOTED OTHERWISE, ALL EXTERIOR LIGHTING TO REMAIN. KEEP EXISTING CIRCUIT WHERE POSSIBLE. IF A LIGHTING CIRCUIT IS TO BE REMOVED, EXTERIOR LIGHTING TO BE ADDED TO NEAREST LIGHTING CIRCUIT.



A1 LIGHTING PLAN - DEMO
3/16" = 1'-0"



A4 POWER PLAN - DEMO
3/16" = 1'-0"



KEY PLAN
NOT TO SCALE

PLAN NORTH

3/16"=1'-0" 0 2' 4' 8' 16'

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GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT

INTERIOR TERMINAL I19 RENOVATION

140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO:	10012540
DATE ISSUED:	02/20/2023
DESIGNED BY:	R. VOISARD
DRAWN BY:	R. VOISARD
CHECKED BY:	P. DIETERLEN

SHEET NAME:
ELECTRICAL DEMOLITION PLAN

SHEET NO:
ED101

A1 LIGHTING PLAN

1/4" = 1'-0"

GENERAL NOTES:

1. EXTERIOR EGRESS LIGHTING WAS INSTALLED DURING THE EXTERIOR RENOVATION PROJECT.

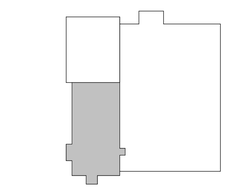
SHEET KEYNOTES:

701 LIGHTS TO BE ON EXTERIOR LIGHTING CIRCUIT AND ROUTED THROUGH EXISTING INVERTER (INSTALLED DURING EXTERIOR RENOVATION).

702 SWITCH TO CONTROL THE LIGHTS IN THIS ROOM.

703 REFER TO ROOM LIGHTING CONTROL DETAIL FOR WIRING INFORMATION ON LIGHTING. REFER TO MANUFACTURER DESIGN FOR NUMBER OF GANG BOX REQUIRED.

704 REFER TO LIGHTING SCHEDULE FOR CONTROL OF THIS FIXTURE.



KEY PLAN

NOT TO SCALE

PLAN NORTH

1/4"=1'-0" 0 2' 4' 8' 12'

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ISSUANCE SCHEDULE

NUMBER	DATE	DESCRIPTION

GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT

INTERIOR TERMINAL I19 RENOVATION

140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO:	10012540
DATE ISSUED:	02/20/2023
DESIGNED BY:	R. VOISARD
DRAWN BY:	R. VOISARD
CHECKED BY:	P. DIETERLEN

SHEET NAME:
LIGHTING PLAN

SHEET NO:
E-101

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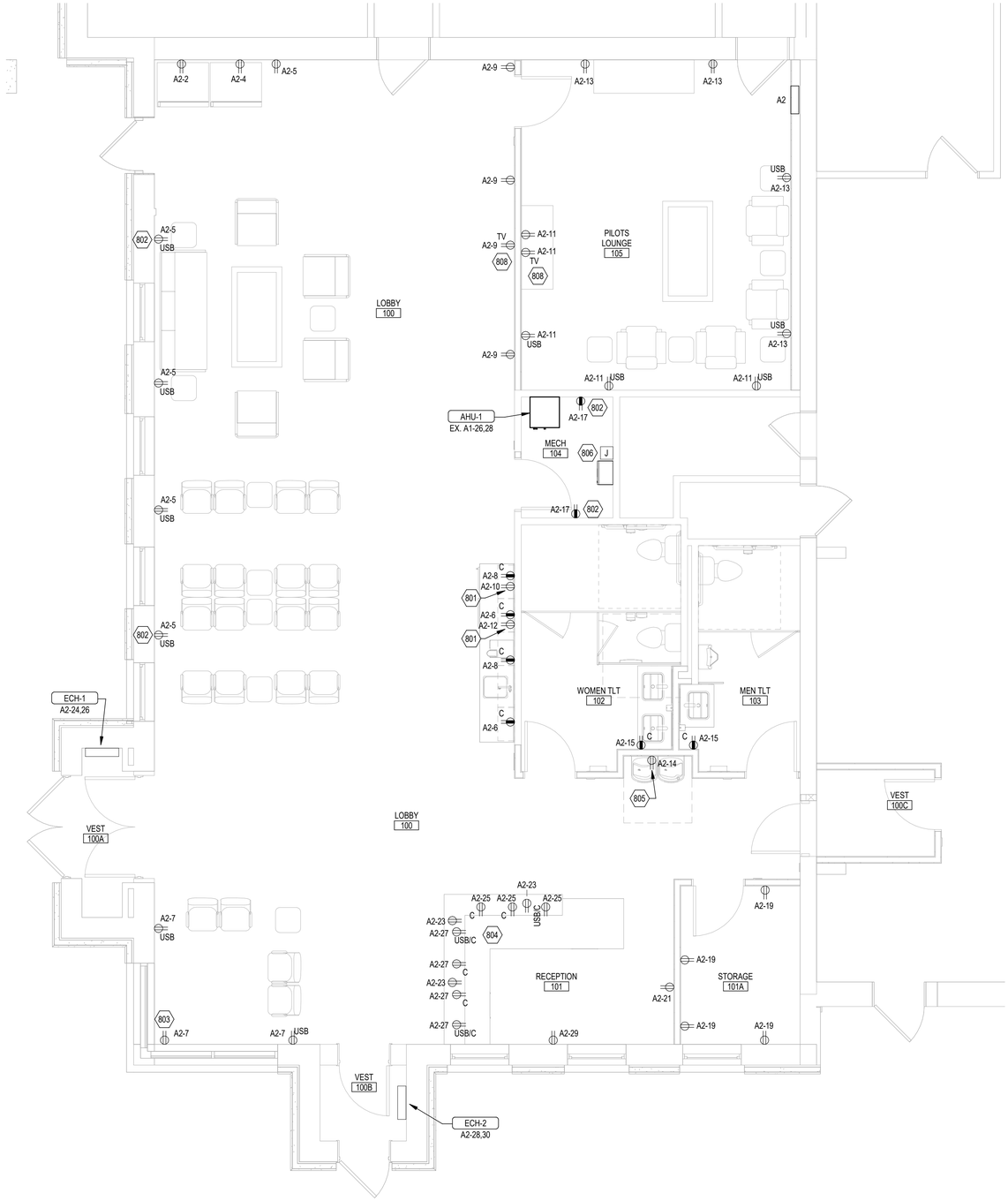
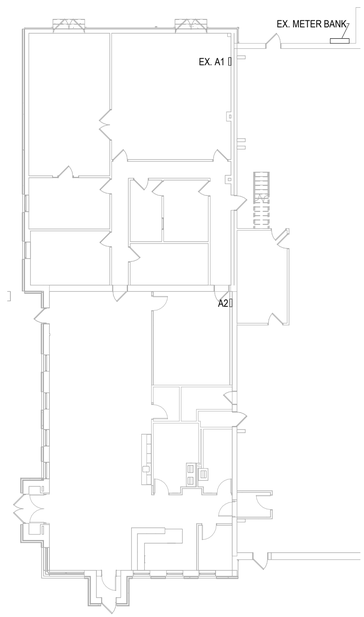
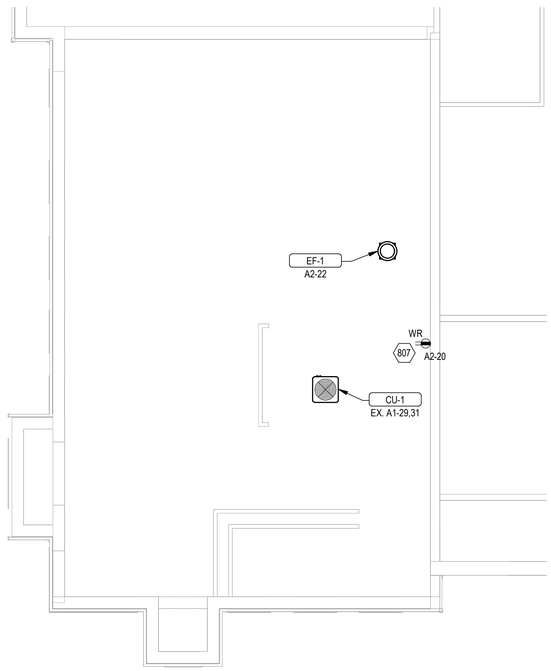


A1 POWER PLAN
1/4" = 1'-0"



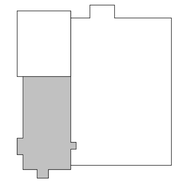
C5 OVERALL POWER PLAN
1/16" = 1'-0"



A5 ROOF POWER PLAN
1/8" = 1'-0"

SHEET KEYNOTES:

801 RECEPTACLE TO BE MOUNTED AT 24" AFF IN CASEWORK FOR APPLIANCE. COORDINATE WITH CASEWORK INSTALLER.
802 NEW RECEPTACLE TO BE MOUNTED IN SAME LOCATION AS EXISTING THAT WAS REMOVED. EXISTING CONDUIT AND BOX MAY BE REUSED.
803 RECEPTACLE TO BE MOUNTED UNDER WINDOW AT 10" AFF.
804 TYPE "C" RECEPTACLE TO BE MOUNTED ABOVE COUNTER, OTHER RECEPTACLES TO BE MOUNTED UNDER COUNTER. REFER TO ARCHITECTURAL DRAWINGS.
805 COORDINATE LOCATION OF RECEPTACLE WITH WATER COOLER INSTALLER.
806 POWER CONNECTION FOR HVAC CONTROL UNIT. COORDINATE REQUIREMENTS WITH HVAC CONTRACTOR.
807 MOUNT RECEPTACLE WITHIN 25' OF MECHANICAL EQUIPMENT. RECEPTACLE TO BE GFCI, WATER RESISTANT TYPE WITH IN-USE COVER.
808 REFER TO ARCHITECTURAL DRAWINGS FOR TV MOUNTING. RECEPTACLE TO BE AT 66" AFF OR ABOVE BRACKET.



KEY PLAN
NOT TO SCALE

PLAN NORTH

1/16"=1'-0" 0 4' 8' 16' 32' 48'
1/8"=1'-0" 0 4' 8' 16' 24'
1/4"=1'-0" 0 2' 4' 8' 12'

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4454 IDEA CENTER BOULEVARD
DAYTON, OH 45430-1500
800.414.1045

STATE OF OHIO
ROBERT D. VOISARD
E-79035
REGISTERED PROFESSIONAL ENGINEER
02/20/2023

ISSUANCE SCHEDULE

NUMBER	DESCRIPTION	DATE

GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT

INTERIOR TERMINAL I19 RENOVATION

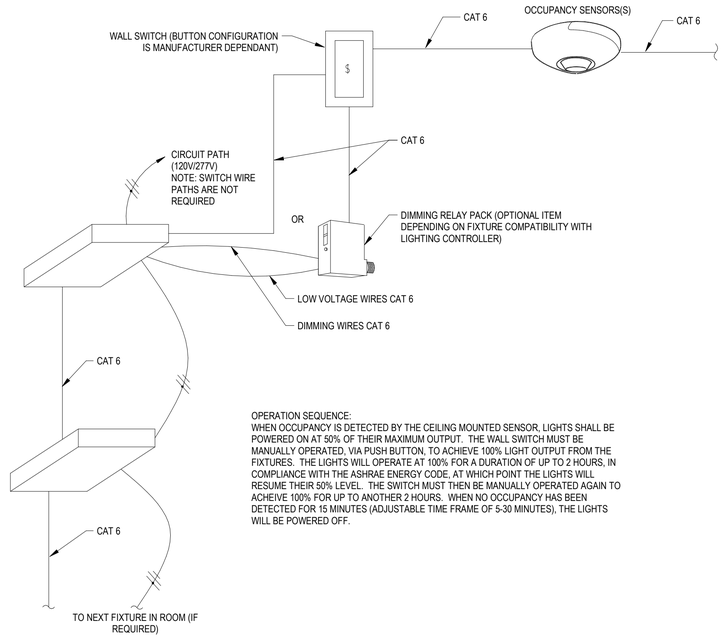
140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO:	10012540
DATE ISSUED:	02/20/2023
DESIGNED BY:	R. VOISARD
DRAWN BY:	R. VOISARD
CHECKED BY:	P. DIETERLEN

SHEET NAME:
POWER PLANS

SHEET NO:
E-201

2/18/2023 1:22:57 PM
Autodesk Docs://Greene County Airport - Hub/_W_10012540_Greene Co Airport Int Terminal Reno_MEPC_R22.rvt



OPERATION SEQUENCE:
WHEN OCCUPANCY IS DETECTED BY THE CEILING MOUNTED SENSOR, LIGHTS SHALL BE POWERED ON AT 50% OF THEIR MAXIMUM OUTPUT. THE WALL SWITCH MUST BE MANUALLY OPERATED. VIA PUSH BUTTON, TO ACHIEVE 100% LIGHT OUTPUT FROM THE FIXTURES. THE LIGHTS WILL OPERATE AT 100% FOR A DURATION OF UP TO 2 HOURS, IN COMPLIANCE WITH THE ASHRAE ENERGY CODE, AT WHICH POINT THE LIGHTS WILL RESUME THEIR 50% LEVEL. THE SWITCH MUST THEN BE MANUALLY OPERATED AGAIN TO ACHEIVE 100% FOR UP TO ANOTHER 2 HOURS. WHEN NO OCCUPANCY HAS BEEN DETECTED FOR 15 MINUTES (ADJUSTABLE TIME FRAME OF 5-30 MINUTES), THE LIGHTS WILL BE POWERED OFF.

C1 ROOM LIGHTING CONTROL WITH CEILING MOUNTED OCCUPANCY SENSOR

NTS

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140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 02/20/2023

DESIGNED BY: R. VOISARD
DRAWN BY: R. VOISARD
CHECKED BY: P. DIETERLEN

SHEET NAME:
ELECTRICAL DETAILS

SHEET NO:
E-501

PANELBOARD: EX. A1

LOCATION:
MOUNTING: SURFACE
MAIN DEVICE: MLO
BUS AMPS: 225
# of Circuits 42

VOLTAGE: 120/240V, 1Ø, 3W
A.I.C. RATING:
SPECIAL: ITALICIZED CIRCUIT BREAKERS ARE EXISTING AND LOADS ARE ESTIMATED BASED ON FIELD CONDITIONS. CIRCUIT BREAKERS THAT HAVE LOADS REMOVED SHALL HAVE THE CIRCUIT BREAKER RE-LABELED AS SPARE. LOADS IN LOAD CLASSIFICATION DO NOT INCLUDE EXISTING LOADS.

NOTES	LOAD DESCRIPTION	BKR	POLES	CKT	A		B		CKT	POLES	BKR	LOAD DESCRIPTION	NOTES
	BAY LIGHTS	*20*	*1*	*1*	*1100*	*1260*			*2*	*1*	*20*	*RECEPT*	
	BAY LIGHTS	*20*	*1*	*3*			*1100*	*1260*	*4*	*1*	*20*	*RECEPT*	
	OFFICE LIGHTS	*20*	*1*	*5*	*800*	*1440*			*6*	*1*	*20*	*RECEPT*	
	BAY LIGHTS	*20*	*1*	*7*			*1200*	*1440*	*8*	*1*	*20*	*RECEPT*	
	HALLWAY LIGHTS	*20*	*1*	*9*	*600*	*1260*			*10*	*1*	*20*	*RECEPT*	
	SPARE	20	1	11			0	*800*	*12*	*1*	*20*	*COPIER*	
	AIR CONDITIONER & FURNACE	60	2	13	*4968*	0			14	1	20	SPARE	
				15			*4968*	0	16	1	20	SPARE	
1	PANEL A2	125	2	17	12705	*180*			*18*	*1*	*20*	*GW AVIATION RECEPT*	
				19			12046	*180*	*20*	*1*	*20*	*GW AVIATION RECEPT*	
	TRAILER 220V RECEPT	*30*	*2*	*21*	*1600*	*180*			*22*	*1*	*20*	*GW AVIATION BENCH...*	
				23			*1600*	*180*	*24*	*1*	*20*	*DEDICATED RECEPT*	
	WELDER 220V RECEPT	*30*	*2*	*25*	*1200*	3600			26	2	50	AHU-1	2
				27			*1200*	3600	28				
2	CU-1	60	2	29	3936				30				
				31			3936		32				
				33					34				
				35					36				
				37					38				
				39					40				
				41					42				
		TOTAL LOAD:			34.8 kVA		33.5 kVA						
		TOTAL AMPS:			290.2 A		279.3 A						

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
HVAC	20256 VA	80.00%	16205 VA		
LIGHTING	1467 VA	100.00%	1467 VA	**CONNECTED LOAD:**	68339 VA
MTR	1320 VA	125.00%	1650 VA	**ESTIMATED DEMAND:**	63228 VA
RECEPTS	12780 VA	89.12%	11390 VA	**CONNECTED CURRENT:**	284.7
				EST. DEMAND CURRENT:	263.4

NOTES:
1. CIRCUIT BREAKER IS EXISTING AND WILL BE REUSED FOR NEW PANEL A2.
2. PROVIDE NEW CIRCUIT BREAKER FOR EXISTING PANEL (EATON - PRL1)

PANELBOARD: A2

LOCATION: PILOTS LOUNGE 105
MOUNTING: RECESSED
MAIN DEVICE: MLO
BUS AMPS: 125
# of Circuits 42

VOLTAGE: 120/240V, 1Ø, 3W
A.I.C. RATING:
SPECIAL:

NOTES	LOAD DESCRIPTION	BKR	POLES	CKT	A		B		CKT	POLES	BKR	LOAD DESCRIPTION	NOTES
	LIGHTING	20	1	1	633	800			2	1	20	RECEPT - VENDING	1
	LIGHTING	20	1	3			834	800	4	1	20	RECEPT - VENDING	1
	RECEPTS - LOBBY	20	1	5	900	360			6	1	20	RECEPTS - COUNTER	
	RECEPTS - LOBBY	20	1	7			540	360	8	1	20	RECEPTS - COUNTER	
	RECEPTS - LOBBY	20	1	9	720	800			10	1	20	RECEPT - REFRIGERATOR	
	RECEPTS - PILOTS LOUNGE	20	1	11			900	1000	12	1	20	RECEPT - MICROWAVE	
	RECEPTS - PILOTS LOUNGE	20	1	13	720	600			14	1	20	RECEPT - WATER COOLER	1
	RECEPTS - RESTROOMS	20	1	15			360	500	16	1	20	HVAC CONTROL PANEL	
	RECEPTS - MECH 104	20	1	17	360	0			18	1	20	SPARE	
	RECEPTS - STORAGE 101A	20	1	19			720	180	20	1	20	RECEPT - ROOF	
	RECEPTS - RECEPTION 101	20	1	21	180	1320			22	1	20	EF-1	
	RECEPTS - RECEPTION 101	20	1	23			540	1296	24	2	20	ECH-1	
	RECEPTS - RECEPTION 101	20	1	25	540	1296			26				
	RECEPTS - RECEPTION 101	20	1	27			720	1296	28	2	20	ECH-2	
	RECEPTS - RECEPTION 101	20	1	29	180	1296			30				
2	EXISTING WATER HEATER	30	2	31			2000		32				
				33	2000				34				
	SPARE	20	1	35			0	0	36	1	20	SPARE	
	SPARE	20	1	37	0	0			38	1	20	SPARE	
	SPARE	20	1	39			0	0	40	1	20	SPARE	
	SPARE	20	1	41	0	0			42	1	20	SPARE	
		TOTAL LOAD:			12.7 kVA		12.0 kVA						
		TOTAL AMPS:			105.9 A		100.4 A						

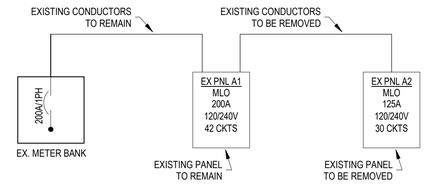
LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
HVAC	5184 VA	80.00%	4147 VA		
LIGHTING	1467 VA	100.00%	1467 VA	**CONNECTED LOAD:**	24751 VA
MTR	1320 VA	125.00%	1650 VA	**ESTIMATED DEMAND:**	22654 VA
RECEPTS	12780 VA	89.12%	11390 VA	**CONNECTED CURRENT:**	103.1
				EST. DEMAND CURRENT:	94.4

NOTES:
1. PROVIDE GFCI TYPE CIRCUIT BREAKER
2. PROVIDE NEW FEED TO EXISTING WATER HEATER. UTILIZE (3)#10, (1)#10 GND. IN 3/4" CONDUIT.

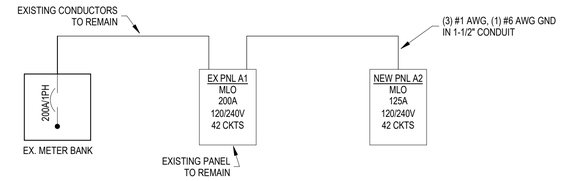
NOTE: PER NEC 220.87, ONE YEAR OF UTILITY BILLS SHOWING DEMAND PER MONTH PERMIT LOADS ON PANELS TO EXCEED CAPACITY OF PANEL AND OVERCUREENT PROTECTION. REFER TO LOAD SUMMARY DOCUMENTATION ON THIS SHEET.

EXISTING ONE LINE DIAGRAM NOTES:

A. PRE-DESIGN FIELD OBSERVATION ASSUMED THAT EXISTING PANEL A2 IS FED FROM EXISTING PANEL A1. CONTRACTOR TO VERIFY AND NOTIFY ENGINEER IF DIFFERENT.
B. ALL LOADS IN EXISTING PANEL A2 ARE ASSUMED TO BE REMOVED. IF THERE IS A LOAD THAT IS NOT BEING DEMO'D, IT IS TO BE REFED FROM NEW PANEL A2.



D4 EXISTING ONE-LINE DIAGRAM
NTS



C4 PROPOSED ONE-LINE DIAGRAM
NTS

AES OHIO ACCOUNT 6019342246 - LOAD SUMMARY
Electric service includes existing panels A1 & A2 - Service Disconnect=200 Amps

Month	Existing Billing Demand (kW) (AES Bill)	power factor (assumed)	Voltage	Amps
Jan-2022	19.3	0.85	240	94.6
Feb-2022	18.9	0.85	240	92.6
Mar-2022	18.5	0.85	240	90.7
Apr-2022	18.5	0.85	240	90.7
May-2022	18.6	0.85	240	91.2
Jun-2022	22.8	0.85	240	111.8
Jul-2022	21.4	0.85	240	104.9
Aug-2022	21.2	0.85	240	103.9
Sep-2022	18.5	0.85	240	90.7
Oct-2022	18.5	0.85	240	90.7
Nov-2022	19.7	0.85	240	96.6
Dec-2022	24.0	0.85	240	117.6
Using NEC 220.87, 1 year usage (January 2022-December 2022)				
Max Demand =	24.0			117.6
Demand at 125% =				147.1
Loads removed from demo'd panel A2 (using HVAC max values)				
Condenser (from nameplate)	5.6	0.85	240	27.6
Furnace L1/L2 (from nameplate)	8.2	0.85	240	40.0
Furnace L3/L4 (from nameplate)	8.2	0.85	240	40.0
General lighting (1.2W/sf, per T220.12)	3.0	0.85	240	14.7
General recepts (1.0W/sf, per 220.14(K))	2.5	0.85	240	12.3
	27.5			134.6
Loads added to new panel A2 (using HVAC max values)				
Condesner (from mechanical design/plans)	6.7	0.85	240	32.8
Furnance (from mechanical design/plans)	6.1	0.85	240	30.0
Cabinet Heater 1 (from mechanical design/plans)	2.2	0.85	240	10.8
Cabinet Heater 2 (from mechanical design/plans)	2.2	0.85	240	10.8
General lighting (from plans)	1.5	0.85	240	7.4
General recepts (from plans)	12.8	0.85	240	62.7
	31.5			154.5
New Demand Total with removed loads and new loads =	28.1	0.85	240	137.6
New Demand at 125% =				172.0
Serivce Capacity (Main Circuit Breaker)				200.0
Spare Capacity ((200 Amps x 80%) - New Demand Total)				22.4

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02/20/2023

ISSUANCE SCHEDULE

NUMBER	DESCRIPTION	DATE

GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT

INTERIOR TERMINAL I19 RENOVATION

140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 02/20/2023

DESIGNED BY: R. VOISARD
DRAWN BY: R. VOISARD
CHECKED BY: P. DIETERLEN

SHEET NAME:
ELECTRICAL ONE-LINE DIAGRAM & PANEL SCHEDULE

SHEET NO:
E-601

LIGHTING FIXTURE SCHEDULE

TYPE	VOLTS	WATTAGE	DESCRIPTION	LIGHT SOURCE		COLOR TEMP.	MANUF. #1	MODEL #1	MANUF. #2	MODEL #2	MANUF. #3	MODEL #3	NOTES
				LUMENS	TYPE								
A	120	45	2X4 RECESSED, CENTER OPTICS WITH CURVED REFELCTOR, LAY-IN GRID, WHITE	3000	LED	4000K	LITHONIA	STAK 2X4 3000LM 80CRI 40K COL MIN10 ZT MVOLT	HUBBELL		COOPER		
AEM	120	45	2X4 RECESSED, CENTER OPTICS WITH CURVED REFELCTOR, LAY-IN GRID, WHITE, EMERGENCY DRIVER	3000	LED	4000K	LITHONIA	STAK 2X4 3000LM 80CRI 40K COL MIN10 ZT MVOLT E7W	HUBBELL		COOPER		
B	120	45	2X2 RECESSED, CENTER OPTICS WITH CURVED REFELCTOR, LAY-IN GRID, WHITE	3000	LED	4000K	LITHONIA	STAK 2X2 3000LM 80CRI 40K COL MIN10 ZT MVOLT	HUBBELL		COOPER		
BEM	120	45	2X2 RECESSED, CENTER OPTICS WITH CURVED REFELCTOR, LAY-IN GRID, WHITE, EMERGENCY DRIVER	3000	LED	4000K	LITHONIA	STAK 2X2 3000LM 80CRI 40K COL MIN10 ZT MVOLT E7W	HUBBELL		COOPER		
C	120	15	6" LOW-PROFILE, HOUSELESS, DOWNLIGHT, REMOTE DRIVER, POLYCARBONATE LENS	1100	LED	4000K	LITHONIA	WF6 LED 30K40K50K 90CRI MW	HUBBELL		COOPER		
D	120	45	2X2 RECESSED, CENTER OPTICS WITH CURVED REFELCTOR, LAY-IN GRID, INTEGRAL OCCUPANCY SENSOR WITH ON/OFF AND AUTO DIMMING, DRYWALL MOUNTING, WHITE	3000	LED	4000K	LITHONIA	STAK 2X2 3000LM 80CRI 40K COL MIN10 ZT MVOLT APIR DGA22	HUBBELL		COOPER		
EX	120	3	EXIT SIGN, WHITE WITH RED LETTERING AND 90 MINUTE BATTERY		LED		LITHONIA	LQM S W 3 R 120/277 EL N	HUBBELL		COOPER		
F	120	36	4 FOOT STRIP LIGHT WITH ACRYLIC LENS	4000	LED	4000K	LITHONIA	CSS L48 AL03 MVOLT SWW3 80CRI	HUBBELL		COOPER		

EQUIPMENT DATA SCHEDULE

PLAN MARK	LOCATION		EQUIPMENT INFORMATION					CIRCUIT INFORMATION				STARTER			CONTROL		DISCONNECT			NOTES
	NAME	NO	FLA	MCA	MOCP	VOLT	PH	PANEL	NO.	APPARENT LOAD	WIRE & CONDUIT SIZE	TYPE	FURNISH	INSTALL	FURNISH	INSTALL	TYPE	FURNISH	INSTALL	
AHU-1			30.0	37.5	50	240	1	EX. A1	26,28	7200 VA	3/4"C - 2#6, 1#10 GND				MC	MC	NF D/S	EC	EC	
CU-1				41.0	60	240	1	EX. A1	29,31	7872 VA	3/4"C - 2#6, 1#10 GND				MC	MC	D/S	MC	EC	
ECH-1				15.6	20	240	1	A2	24,26	2995 VA	3/4"C - 2#12, 1#12 GND				MC	MC		MC	MC	
ECH-2				15.6	20	240	1	A2	28,30	2995 VA	3/4"C - 2#12, 1#12 GND				MC	MC		MC	MC	
EF-1			11.0	13.8	20	120	1	A2	22	1320 VA	3/4"C - 2#12, 1#12 GND				MC	MC	MRS	EC	EC	

D/S DISCONNECT SWITCH
EC ELECTRICAL CONTRACTOR
MC MECHANICAL CONTRACTOR
MRS MOTOR RATED SWITCH
NF NON-FUSED

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SHEET NAME:
LIGHTING & EQUIPMENT SCHEDULES

SHEET NO:
E-701

GENERAL MECHANICAL SYMBOLS

REVISION NUMBER - SHOWN ON PLANS (#)
KEYNOTE (#)
PIPE BREAK SYMBOL
THERMOSTAT (T)
HUMIDISTAT (H)
SWITCH (S)
HVAC EMERGENCY SHUTOFF SWITCH (E)
CARBON DIOXIDE SENSOR (C)
EQUIPMENT TAG MARK-###
AIR DEVICE TAG SC-100

POINT WHERE NEW CONNECTS TO EXISTING
NUMBER OF DETAIL ON SHEET
NUMBER OF SHEET WHERE DETAIL APPEARS
ROOM ####
ROOM NAME AND NUMBER
ITEM TO BE DEMOLISHED
AREA NOT IN CONTRACT
MARK-### EXISTING EQUIPMENT TAG

MECHANICAL PIPING SYMBOLS

CONDENSATE DRAINAGE	CD	HWR	HEATING HOT WATER RETURN
STEAM CONDENSATE RETURN	CDR	HWS	HEATING HOT WATER SUPPLY
CHILLED WATER RETURN	CHR	G	NATURAL GAS
CHILLED WATER SUPPLY	CHS	PG	PROPANE GAS
CONDENSER WATER RETURN	CWR	REF-L	REFRIGERANT-LIQUID
CONDENSER WATER SUPPLY	CWS	REF-S	REFRIGERANT-SUCTION
DUAL TEMPERATURE RETURN	DTR	REF-HG	REFRIGERANT-HOT GAS
DUAL TEMPERATURE SUPPLY	DTS	STM	STEAM
PIPE SIZE TAG (DIAMETER)	2"		ABOVE GROUND PIPING
EXISTING PIPE	(E)		BELOW GROUND PIPING
PIPING BEING DEMOLISHED			

PIPE TEE UP
PIPE TEE DOWN
PIPE RISE
PIPE TEE
CAPPED PIPE
PIPE DROP

4" 4" 2"
4"
PLUG
REDUCING 45 DEGREE TEE
45 DEGREE TEE

HVAC SYMBOLS

16X8 RECTANGULAR DUCT SIZE TAG (WIDTH x HEIGHT)
16/8 OVAL DUCT SIZE TAG (WIDTH / HEIGHT)
16"Ø ROUND DUCT SIZE TAG (DIAMETER)

EXISTING DUCT TAG	(E)		DUCT BEING DEMOLISHED
SUPPLY AIR	SA	RA	RETURN AIR
VENTILATION AIR	VA	EA	EXHAUST / RELIEF AIR
OUTSIDE AIR	OA	TA	TRANSFER AIR

DUCTWORK SYMBOLS LEGEND

DROP RECTANGULAR SUPPLY/OUTSIDE AIR DUCT RISE
DROP ROUND SUPPLY/OUTSIDE AIR DUCT RISE
DROP RECTANGULAR RETURN/TRANSFER AIR DUCT RISE
DROP ROUND RETURN/TRANSFER AIR DUCT RISE
DROP RECTANGULAR EXHAUST/RELIEF AIR DUCT RISE
DROP ROUND EXHAUST/RELIEF AIR DUCT RISE

STANDARD RECTANGULAR ELBOW
RADIUS RECTANGULAR ELBOW
ROUND ELBOW
RECTANGULAR BRANCH TAKEOFF
ROUND TAKEOFF WITH DAMPER
RECTANGULAR TRANSITION
RECTANGULAR TO ROUND TRANSITION
ROUND TRANSITION
RECTANGULAR TO ROUND TAKEOFF
ROUND WYE

DUCT ACCESSORIES

BACKDRAFT DAMPER BDD
FIRE DAMPER FD
SMOKE DAMPER SD
GRAVITY DAMPER
MANUAL BALANCE DAMPER
MANUAL OPPOSED/PARALLEL BLADE DAMPER
MOTORIZED OPPOSED/PARALLEL BLADE DAMPER
SECURITY BARS
TRANSFER AIR OPENING

AIR DEVICE LEGEND

*SUPPLY DIFFUSER (HARD CONNECTION)
RETURN GRILLE (HARD CONNECTION)
EXHAUST GRILLE (HARD CONNECTION)
SUPPLY AIR DIFFUSER WITH FLEXIBLE RUNOUT AND DAMPER
SIDEWALL SUPPLY GRILLE
SIDEWALL RETURN OR EXHAUST GRILLE
LINEAR SLOT DIFFUSER

*NOTE: NO ARROWS INDICATES DIFFUSER HAS 4-WAY THROW. IF ARROWS ARE SHOWN, THROW IS AS INDICATED.

ONE-WAY TWO-WAY THREE-WAY

MECHANICAL EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT	EH	ELECTRIC HEATER
ACC	AIR COOLED CONDENSER	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	F	FURNACE
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	GRV	GRAVITY ROOF VENTILATOR
B	STEAM BOILER	HRU	HEAT RECOVERY UNIT
CH	CHILLER	HVU	HEATING/VENTILATING UNIT
CHP	CHILLED WATER PUMP	HWB	HOT WATER BOILER
CRP	CONDENSATE RETURN PUMP	HWP	HEATING WATER PUMP
CT	COOLING TOWER	HX	HEAT EXCHANGER
CU	CONDENSING UNIT	ODU	OUTDOOR UNIT
CUH	CABINET UNIT HEATER	RF	RETURN/RELIEF FAN
CWP	CONDENSER WATER PUMP	RTU	ROOFTOP UNIT
DTP	DUAL TEMPERATURE PUMP	SF	SUPPLY FAN
ECH	ELECTRIC CABINET HEATER	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	UV	UNIT VENTILATOR
EF	EXHAUST FAN	VAV	VAV TERMINAL UNIT

HVAC DESIGN CRITERIA

GENERAL DESIGN INFORMATION

BUILDING LOCATION: XENIA, OHIO
ELEVATION: 823'

INDOOR DESIGN CONDITIONS (WHEN OCCUPIED)

INDOOR SUMMER DRY BULB:	76°F
INDOOR SUMMER RELATIVE HUMIDITY:	50%
INDOOR WINTER DRY BULB:	68°F
INDOOR WINTER RELATIVE HUMIDITY:	UNCONTROLLED

OUTDOOR DESIGN CONDITIONS

SUMMER DRY BULB:	91.1°F
SUMMER WET BULB:	74.4°F
WINTER DRY BULB:	3.2°F

MECHANICAL ABBREVIATIONS

Ø	ROUND	ILC	INLINE CENTRIFUGAL FAN
A	AMPS	IN	INCH
ABV	ABOVE	INV	INVERT
AC	AIR CONDITIONING	LAT	LEAVING AIR TEMPERATURE
ACR	ACR COPPER REFRIG. PIPE	LB	POUND
AD	AREA DRAIN	LB/HR	POUNDS PER HOUR
ADD	ADDENDUM	LDB	LEAVING DRY BULB TEMPERATURE
AFF	ABOVE FINISHED FLOOR	LP	LIQUID PROPANE
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	LP	LOW PRESSURE
ALT	ALTERNATE	LPS	LOW PRESSURE STEAM
ALUM	ALUMINUM	LVR	LOUVER
AP	ACCESS PANEL	LWB	LEAVING WET BULB TEMPERATURE
APD	AIR PRESSURE DROP	LWT	LEAVING WATER TEMPERATURE
ARCH	ARCHITECT/ARCHITECTURAL	M	MOTORIZED
ASJ	ALL SERVICE INSULATION JACKET	MA	MIXED AIR
BAS	BUILDING AUTOMATION SYSTEM	MAT	MATERIAL
BDD	BACKDRAFT DAMPER	MAX	MAXIMUM
BFF	BELOW FINISHED FLOOR	MBH	ONE THOUSAND BTU PER HOUR
BHP	BRAKE HORSEPOWER	MC	MECHANICAL CONTRACTOR
BLW	BELOW	MCA	MINIMUM CIRCUIT AMPS
BOD	BOTTOM OF DUCT	MCF	ONE THOUSAND CUBIC FEET
BOP	BOTTOM OF PIPE	MD	MANUAL DAMPER
BR	BRAZED	MECH	MECHANICAL
BTU	BRITISH THERMAL UNITS	MFF	MATT FACED FIBERGLASS
BTUH	BRITISH THERMAL UNITS PER HOUR	MFR	MANUFACTURER
C-AL	CORRUGATED ALUMINUM	MI	MALLEABLE IRON
CAL	CALCIUM SILICATE INSULATION	MIN	MINIMUM
CAP	CAPACITY	MISC	MISCELLANEOUS
CCP	CALCIUM CARBONATE POWDER	MTR	MOTOR
CF	CUBIC FEET	MUA	MAKE-UP/AIR
CFM	CUBIC FEET PER MINUTE	NC	NOISE CRITERIA
CHW	CHILLED WATER	NC	NORMALLY CLOSED
CI	CAST IRON	NIC	NOT IN CONTRACT
CL	CENTERLINE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CLP	CENTERLINE OF PIPE	NTS	NOT TO SCALE
CMC	CEILING MOUNTED CENTRIFUGAL FAN	O	OXYGEN
CO	CLEAN OUT	OA	OUTSIDE AIR
CONC	CONCRETE	OBD	OPPOSED BLADE DAMPER
CPVC	CHLORINATED PVC	O.C.	ON CENTER
CS	CARBON STEEL	PC	PLUMBING CONTRACTOR
CU	COPPER	PD	PRESSURE DROP
CW	COLD WATER	PGGS	PAINT GRIP GALVANIZED STEEL
CW	CONDENSER WATER	PLBG	PLUMBING
D	DEGREE	PP	POLYPROPYLENE
D	DRAIN	PPM	PARTS PER MILLION
DB	DECIBEL	PRESS	PRESSURE
DB	DRY BULB	PRV	PRESSURE REGULATING VALVE
DCW	DOMESTIC COLD WATER	PS	PRESSURE SENSOR
DDC	DIRECT DIGITAL CONTROLS	PSI	POUNDS PER SQUARE INCH
DHW	DOMESTIC HOT WATER	PSIG	POUNDS PER SQUARE INCH GAUGE
DIA	DIAMETER	PVC	POLYVINYL CHLORIDE
DN	DOWN	PVCGS	PVC COATED GALVANIZED STEEL
DS	DUCT SILENCER (SOUND ATTENUATOR)	PWR	POWER
DT	DUAL TEMPERATURE	RA	RETURN AIR
E-AL	EMBOSSED ALUMINUM	RC	ROOM CRITERIA LEVEL
EA	EACH	RCP	RADIANT CEILING PANEL
EA	EXHAUST AIR	RD	ROOF DRAIN
EAT	ENTERING AIR TEMPERATURE	REC	RECESSED
EC	ELECTRICAL CONTRACTOR	RECT	RECTANGULAR
EDB	ENTERING DRY BULB TEMPERATURE	RED	REDUCER
ELEC	ELECTRICAL	REFRIG.	REFRIGERANT
EQUIP	EQUIPMENT	RH	RELATIVE HUMIDITY
EWB	ENTERING WET BULB TEMPERATURE	RLA	RELIEF AIR
EWT	ENTERING WATER TEMPERATURE	RM	ROOM
EXH	EXHAUST	RMC	ROOF MOUNTED CENTRIFUGAL FAN
EXIST	EXISTING	RMP	ROOF MOUNTED PROPELLER FAN
F	DEGREES FAHRENHEIT	RPM	REVOLUTIONS PER MINUTE
FD	FLOOR DRAIN	RV	RELIEF VALVE
FD	FIRE DAMPER	S	SWITCH
FFJ	FOIL FACED JACKET	SA	SUPPLY AIR
FG	FIBERGLASS	SC	SENSIBLE CAPACITY
FGB	FIBERGLASS BOARD INSULATION	SCH	SCHEDULE
FGW	FIBERGLASS WRAP	SCR	SCREWED (THREADED)
FL	FLOOR	SD	SMOKE DAMPER
FLA	FULL LOAD AMPS	SF	SQUARE FOOT
FLG	FLANGE	SM	SURFACE MOUNT
FLGD	FLANGED	SO	SHUT OFF VALVE TERMINAL
FMG	FOAM GLASS	SP	STATIC PRESSURE
FO	FUEL OIL	SQ	SQUARE
FOV	FUEL OIL VENT	SS	STAINLESS STEEL
FOR	FUEL OIL RETURN	STM	STEAM
FOS	FUEL OIL SUPPLY	SW	SWEAT CONNECTION
FPM	FEET PER MINUTE	SWLD	SOLVENT WELD
FPP	FAN POWERED PARALLEL VAV	T	THERMOSTAT
FPS	FAN POWERED SERIES VAV	TC	TOTAL CAPACITY
FS	FLOW SWITCH	TD	TEMPERATURE DROP
FT	FOOT/FEET	TEMP	TEMPERATURE
FTR	FIN TUBE RADIATION	TH	THICKNESS
FW	FEED WATER	THRD	THREADED
GA	GAGE (GAUGE)	TOD	TOP OF DUCT
GAL	GALLON	TOJ	TOP OF JOIST
GALV	GALVANIZED	TOS	TOP OF STEEL
GC	GENERAL CONTRACTOR	TS	TEMPERATURE SENSOR
GPH	GALLONS PER HOUR	T/S	PIPE TYPE OR SCHEDULE
GPM	GALLONS PER MINUTE	TYP	TYPICAL
GRV	GROOVED PIPE	UBC	UPBLAST CENTRIFUGAL FAN
GS	GALVANIZED STEEL	UC	FLEXIBLE UNICELLULAR
H	HUMIDIFIER (HUMIDITY)	V	VOLTS
HC	HEATING CONTRACTOR	VAV	VARIABLE AIR VOLUME
HF	HEAT FUSION	VC	VENTILATING CONTRACTOR
HP	HORSE POWER	VENT	VENTILATION
HPS	HIGH PRESSURE STEAM	WB	WET BULB
HS	HUMIDITY SENSOR	WCS	WROUGHT CARBON STEEL
HTG	HEATING	WCU	WROUGHT COPPER
HTR	HEATER	WLD	WELDED CONNECTION
HW	HEATING HOT WATER	WMP	WALL MOUNTED PROPELLER FAN
HYD	HYDRANT	WPD	WATER PRESSURE DROP
ID	INDIRECT	WT	WEIGHT (OR DENSITY)

* NOTE *
THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

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DAYTON, OH 45430-1500
800.414.1045

95%
SUBMITTAL

PRELIMINARY
NOT FOR CONSTRUCTION

ISSUANCE SCHEDULE

NUMBER	DESCRIPTION	DATE

GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT
INTERIOR TERMINAL I19 RENOVATION
140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 12/02/2022
DESIGNED BY: D. THOMA
DRAWN BY: E. REEVE
CHECKED BY: M. BEHRMANN

SHEET NAME:
MECHANICAL LEGENDS

SHEET NO:
M-001

1/24/23 15:16:01
Autodesk Docs://Greene County Airport - Hub/_W_10012540_Greene Co Airport Int Terminal Reno_MEPC_R22.rvt

GENERAL PROJECT NOTES

GENERAL:

1. INSTALL THE H.V.A.C. SYSTEM AS INDICATED IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.
2. COORDINATE ALL WORK WITH OTHER TRADES. REWORK OF PIPING, DUCTWORK, EQUIPMENT LOCATION, CONDUIT, ETC. AS A RESULT OF POOR PLANNING. COORDINATION OR SCHEDULING SHALL BE THE RESPONSIBILITY OF THE INVOLVED CONTRACTORS. NOTIFY THE ARCHITECT/ENGINEER OF ANY CONFLICTS PRIOR TO START OF WORK.
3. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ANY FRAMING REVISIONS, EQUIPMENT LOCATIONS, ADDITION OF CONTROLS, ELECTRICAL CIRCUITING REVISIONS, ETC. THAT RESULT FROM USING EQUIPMENT OTHER THAN THOSE INDICATED ON THE DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ARCHITECT/ENGINEER WILL NOT WAIVE THE CONTRACTOR OF THIS RESPONSIBILITY.
4. THE MECHANICAL CONTRACTOR SHALL HAVE THE FINAL RESPONSIBILITY FOR SYSTEM START UP, TRAINING, WARRANTY AND TURN OVER TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTRUCTING THE OWNER ON ANY ROUTINE MAINTENANCE REQUIRED DURING THE WARRANTY PERIOD.
5. ALL ITEMS INCLUDED ON THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE INCLUDED IN THE CONTRACTORS BID. ANY ITEMS THAT ARE UNCLEAR OR FOUND TO BE INCORRECT BY THE CONTRACTOR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE BID DUE DATE. EXCLUSIONS OF WORK FROM THE BID ARE NOT ACCEPTABLE.
6. ALL WORK INDICATED ON THE MECHANICAL DRAWINGS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
7. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL FIRESTOPPING FOR DUCT AND PIPE PENETRATIONS THAT PENETRATE FIRE RATED ASSEMBLIES. SEE ARCHITECTURAL DRAWINGS OR REFER TO THE OWNERS RECORD DRAWINGS FOR LOCATIONS OF FIRE RATED ASSEMBLIES. ALL FLOOR PENETRATIONS SHALL BE FIRESTOPPED AND SEALED WATER TIGHT WITH A FLEXIBLE SEALANT.
8. THE MECHANICAL CONTRACTOR SHALL PATCH ALL WALLS, CEILINGS OR FLOORS WHERE EQUIPMENT, CONTROLS, CONDUIT, DUCTWORK OR PIPING HAS BEEN REMOVED, RELOCATED OR INSTALLED NEW. PATCHING SHALL MATCH EXISTING SURFACES WITH RESPECT TO MATERIALS, COLOR AND TEXTURE.
9. THE MECHANICAL CONTRACTOR SHALL PROVIDE ROOF PATCHING FOR ANY ROOF PENETRATIONS NOT SPECIFICALLY IDENTIFIED ON THE ARCHITECTURAL DRAWINGS. ALL PATCHING SHALL BE PERFORMED IN A MANNER CONSISTENT WITH THE ROOF SYSTEMS CURRENT WARRANTY REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.
10. THE MECHANICAL CONTRACTOR SHALL NOT PERFORM ANY WELDING OR TORCH CUTTING OPERATIONS WITHIN THE OCCUPIED BUILDING WITHOUT OBTAINING PERMISSION OR A BURN PERMIT FROM THE OWNER.
11. VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION, TRENCHING OR DRILLING.
12. VERIFY THE LOCATION OF CONCEALED PIPING, CONDUIT, DUCTWORK, WIRING, ETC. PRIOR TO CUTTING OR DRILLING THROUGH WALLS, FLOORS, CEILINGS OR ROOF DECKS.

PIPING NOTES:

1. PITCH ALL CONDENSATE PIPING NO LESS THAN 1/8" PER 10' TOWARD THE FLOOR DRAINS, ROOF DRAINS OR SPLASH BLOCKS.
2. ALL PIPING SHALL BE PROVIDED WITH SEISMIC RESTRAINTS IN ACCORDANCE WITH THE SEISMIC RESTRAINT MANUAL: GUIDELINES FOR MECHANICAL SYSTEMS, 3RD EDITION 2008, AS PUBLISHED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION, INC. (SMACNA) AS WELL AS ALL LOCAL CODES.
3. PROVIDE P-TRAPS WITH CLEANOUT ON ALL FAN COIL UNITS, UNIT VENTILATORS, DX FURNACE COIL CONDENSATE DRAIN CONNECTIONS. PIPE PER MANUFACTURERS RECOMMENDATIONS.

EQUIPMENT - GENERAL:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE SERVICE ACCESS SPACE FOR ALL EQUIPMENT WITH OTHER TRADES TO MAINTAIN PROPER CLEARANCES FOR EQUIPMENT MAINTENANCE AND OPERATION.
2. VARIATIONS IN THE EQUIPMENT ORDERED AND THAT SHOWN ON THE DRAWINGS SHALL BE COORDINATED BEFORE THE INSTALLATION OF ANY PIPING, DUCTWORK, EQUIPMENT PADS, CONDUIT ETC.
3. THE H.V.A.C. EQUIPMENT AND SYSTEM SHALL NOT BE USED TO TEMPORARILY HEAT, COOL OR DEHUMIDIFY THE SPACE DURING CONSTRUCTION (PRIOR TO SUBSTANTIAL COMPLETION) WITHOUT APPROVAL BY THE OWNER. THE WARRANTY PERIOD SHALL NOT BEGIN UNTIL SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY ADDITIONAL CHARGES TO EXTEND THE EQUIPMENT WARRANTY PERIOD AS NECESSARY.

PAINTING:

1. MECHANICAL SUPPORTS, INTERIOR, FINISHED SPACE: EXPOSED UNPAINTED, PRIMED OR NON-PLATED STEEL SUPPORTS, HANGERS, BRACKETS, ETC., LOCATED WITHIN INTERIOR FINISHED SPACES VIEWABLE BY THE GENERAL BUILDING POPULATION SHALL BE PAINTED WITH ONE COAT OF RUST INHIBITIVE PRIMER AND TWO COATS OF ENAMEL OR ACRYLIC PAINT. COLOR AND FINISH TO BE SELECTED BY THE ARCHITECT.
2. MECHANICAL SUPPORTS, MECHANICAL ROOMS: UNPAINTED, PRIMED OR NON-PLATED STEEL SUPPORTS, HANGERS, BRACKETS, ETC., LOCATED WITHIN MECHANICAL OR UTILITY ROOMS SHALL BE PAINTED WITH ONE COAT OF RUST INHIBITIVE PRIMER AND TWO COATS OF ENAMEL OR ACRYLIC PAINT. PAINT GLOSS GRAY OR BLACK.
3. NON-INSULATED PIPING, NON-INSULATED DUCTWORK, AND CONDUIT, INTERIOR, FINISHED SPACE: EXPOSED, NON-INSULATED PIPING, NON-INSULATED DUCTWORK, AND CONDUIT LOCATED WITHIN INTERIOR FINISHED SPACES, VIEWABLE BY THE GENERAL BUILDING POPULATION, SHALL BE PAINTED WITH ONE COAT OF RUST INHIBITIVE PRIMER AND TWO COATS OF ENAMEL OR ACRYLIC PAINT. COLOR AND FINISH TO BE SELECTED BY THE ARCHITECT.
4. INSULATED PIPING AND DUCTWORK, INTERIOR, FINISHED SPACE: EXPOSED, INSULATED PIPING AND DUCTWORK, LOCATED WITHIN INTERIOR FINISHED SPACES, VIEWABLE BY THE GENERAL BUILDING POPULATION, SHALL BE PAINTED WITH TWO COATS OF LATEX PAINT. COLOR AND FINISH TO BE SELECTED BY THE ARCHITECT.
5. NON-INSULATED PIPING, NON-INSULATED DUCTWORK, AND CONDUIT, MECHANICAL ROOMS: NON-INSULATED PIPING, NON-INSULATED DUCTWORK, AND CONDUIT LOCATED WITHIN MECHANICAL AND UTILITY ROOMS SHALL BE PAINTED WITH ONE COAT OF RUST INHIBITIVE PRIMER AND TWO COATS OF GLOSS ENAMEL OR ACRYLIC PAINT PER THE COLOR CODE LOCATED ON THE PIPE SCHEDULE.
6. INSULATED PIPING AND DUCTWORK, MECHANICAL ROOMS: WHERE PVC OR FOIL FACED JACKETS HAVE NOT BEEN SPECIFIED PER THE PIPE AND DUCT SCHEDULES ON EXPOSED, INSULATED PIPING AND DUCTWORK LOCATED WITHIN MECHANICAL ROOMS, PAINT THE ALL SERVICE JACKET WITH TWO COATS OF GLOSS LATEX PAINT. PAINT PIPE PER THE COLOR CODE LOCATED ON THE PIPE SCHEDULE. PAINT DUCTWORK WHITE.
7. WHERE GALVANIZED DUCTWORK REQUIRES PAINTING PROVIDE A PAINT GRIP FINISH OR CHEMICALLY CLEAN AND PREPARE THE DUCT SURFACE PRIOR TO PAINTING.
8. DO NOT PAINT OVER NAME PLATES, WARNING SIGNS, IDENTIFICATION LABELS, ETC.

TEMPERATURE CONTROL NOTES:

1. LABEL ALL CONTROL PANELS, ACTUATORS, SENSORS, ETC WITH 1/8" THICK PLASTIC LAMINATE SIGNS. SEE DRAWINGS FOR LABEL AND LETTERING REQUIREMENTS. LABEL DESIGNATIONS SHALL BE CONSISTENT WITH THE DRAWINGS, TEMPERATURE CONTROL SYSTEM MANUAL AND DIAGRAMS.
2. MOUNT THERMOSTATS AND SENSORS 48" (FRONT REACH) OR 54" SIDE REACH ABOVE FINISH FLOOR. DO NOT MOUNT IN DIRECT SUNLIGHT OR NEAR HEAT PRODUCING EQUIPMENT.
3. ALL WALL TRIM ON SENSORS LOCATED IN OCCUPIED SPACES TO BE WHITE.
4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SMOKE DETECTORS FOR THE H.V.A.C SYSTEM. THE ELECTRICAL CONTRACTOR SHALL ALSO PROVIDE ALL WIRING BETWEEN THE STARTERS OR DRIVES AND THE FIRE ALARM SYSTEM AS REQUIRED TO SHUT DOWN THE EQUIPMENT IN THE EVENT OF A FIRE AS DESCRIBED BY THE SEQUENCE OF OPERATION. THE BUILDING AUTOMATION SYSTEM (BAS) SHALL NOT BE USED AS PART OF THE FIRE ALARM SYSTEM.
5. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL INTERFACE WIRING REQUIRED BETWEEN THE TEMPERATURE CONTROL SYSTEM AND THE FIRE ALARM SYSTEM. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE INTERFACE TERMINALS AS PART OF THE FIRE ALARM SYSTEM AS REQUIRED TO PROVIDE THE SPECIFIED SEQUENCE OF OPERATION.
6. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR H.V.A.C. EQUIPMENT UNLESS THEY ARE INCLUDED WITH THE EQUIPMENT AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS. COORDINATE STARTER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR AND THE BAS CONTRACTOR PRIOR TO ORDERING.
7. WHERE AUXILIARY CONTACTS ARE REQUIRED IN STARTERS PROVIDED BY THE ELECTRICAL CONTRACTOR, THE MECHANICAL CONTRACTOR SHALL COORDINATE THE QUANTITY AND TYPE OF CONTACTS WITH THE ELECTRICAL CONTRACTOR PRIOR TO PURCHASE.
8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS IN THE ELECTRICAL PANELS THAT ARE SPECIFICALLY DEDICATED FOR THE TEMPERATURE CONTROL SYSTEM. COORDINATE THE QUANTITY AND SIZES WITH THE BAS CONTRACTOR. SEE ELECTRICAL DRAWINGS FOR LOCATION.
9. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL TEMPERATURE CONTROL SYSTEM WIRING AND CONDUIT REGARDLESS OF VOLTAGE AS REQUIRED TO PROVIDE THE SPECIFIED SEQUENCE OF OPERATION OR SATISFY ANY MANUFACTURER REQUIREMENTS. POWER AND CONTROL WIRING AND CONDUIT FOR VALVE ACTUATORS, DAMPER ACTUATORS, REFRIGERANT MONITORS, CARBON DIOXIDE SENSORS, TEMPERATURE CONTROL PANELS, RELAYS, INDICATOR LIGHTS, REMOTE CONTROL PANELS, SOLENOID VALVES AND OTHER SIMILAR DEVICES THAT ARE PART OF THE H.V.A.C SYSTEM SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS FOR THE LOCATION OF CIRCUIT BREAKERS SPECIFICALLY DEDICATED FOR TEMPERATURE CONTROL SYSTEM COMPONENTS.
10. ALL CONDUIT SHALL BE CONCEALED WITHIN THE WALL OR CEILING CAVITY WITH THE EXCEPTION OF MECHANICAL ROOMS, ELECTRICAL ROOMS, OR WHERE NOTED OTHERWISE. CONDUIT MAY BE EXPOSED AT THE CEILING LEVEL OF AREAS WITHOUT CEILINGS (EXPOSED STRUCTURE). COORDINATE THE ROUGH-IN OF CONDUIT AND JUNCTION BOXES IN MASONRY WALLS WITH THE GENERAL CONTRACTOR. SURFACE MOUNTED RACEWAYS OR EXPOSED CABLE ARE NOT ACCEPTABLE UNLESS SPECIFICALLY NOTED OTHERWISE.
11. IT SHALL BE THE MECHANICAL CONTRACTORS RESPONSIBILITY TO COORDINATE ALL TEMPERATURE CONTROL SYSTEM REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR PRIOR TO THE PURCHASE OR INSTALLATION OF ANY OF THE ELECTRICAL POWER OR TEMPERATURE CONTROL SYSTEM COMPONENT.
12. ALL DAMPER ACTUATORS FOR DUCT SYSTEMS OR EQUIPMENT THAT COMMUNICATES DIRECTLY WITH THE OUTDOORS SHALL BE SPRING RETURN TYPE TO CLOSE IN THE EVENT OF A POWER FAILURE.
13. ALL DAMPERS ON THE INLET OR OUTLET OF THE FAN SHALL BE OPEN PRIOR TO STARTING THE FAN. PROVIDE ANY TIME DELAYS OR END SWITCHES AS REQUIRED.
14. PROVIDE CLEAR PLASTIC LOCKABLE GUARDS ON ALL THERMOSTATS OR SENSORS WITH ADJUSTABLE SET-POINTS LOCATED IN PUBLIC SPACES.

DEMOLITION:

1. THE CONTRACTOR SHALL MAKE ALL PROVISIONS TO PROTECT THE PREMISES FROM DAMAGE DURING DEMOLITION WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MOVING AND PROTECTING ALL OWNER OWNED FURNITURE, EQUIPMENT ETC. AS REQUIRED TO PERFORM THE WORK OF THIS PROJECT.
3. THE CONTRACTOR SHALL PROTECT THE ROOF MEMBRANE DURING DEMOLITION AND MAKE ANY PROVISIONS REQUIRED TO MAINTAIN THE CURRENT ROOFING SYSTEM WARRANTY.
4. PROVIDE TEMPORARY WEATHERPROOFING AND CURBING AT ROOF OPENINGS AS REQUIRED DURING DEMOLITION TO PROTECT THE SPACE BELOW.
5. WHEN TEMPORARY OPENINGS THROUGH THE ROOF MUST REMAIN OPEN 8 HOURS OR LONGER, FRAME AND COVER OPENINGS WITH 3/4" PLYWOOD. TEMPORARY OPENING ENCLOSURES SHALL BE SECURED IN PLACE WITH MECHANICAL MEANS TO WITHSTAND POTENTIAL ADVERSE WEATHER CONDITIONS.
6. WHERE THE USE OF CUTTING TORCHES ARE REQUIRED, PROVIDE A MEANS TO VENTILATE THE SPACE TO REMOVE SMOKE AND ODORS. COORDINATE ALL TORCH CUTTING OPERATIONS WITH THE OWNER AND OBTAIN NECESSARY BURN PERMITS. PROVIDE A DOCUMENTED FIRE SAFETY PLAN PRIOR TO CUTTING OPERATIONS AND INSTRUCT ALL PERSONNEL ON THE PLANS IMPLEMENTATION. FIRE EXTINGUISHERS SHALL BE PRESENT AT ALL TIMES.
7. THE CONTRACTOR SHALL NOTE ANY EXISTING DAMAGE ON CEILING TILES, ROOFING, LIGHT FIXTURES, WALLS, FLOORS FURNITURE, PAVING, ETC. PRIOR TO THE START OF ANY WORK. THE CONTRACTOR SHALL PHOTOGRAPH THESE ITEMS AND SUBMIT THEM TO THE ENGINEER BEFORE BEGINNING WORK.
8. THE CONTRACTOR SHALL DISPOSE OF ALL DEMOLISHED EQUIPMENT EXCEPT WHERE NOTED OTHERWISE.
9. THE CONTRACTOR SHALL REMOVE ALL ABANDONED THERMOSTATS, CONDUIT, ELECTRICAL COMPONENTS, EQUIPMENT, WIRING, CONTROLS, ETC.
10. WHERE EXISTING PIPING, DUCTWORK, EQUIPMENT, CONTROLS, CONDUIT, WIRE MOLD, ETC. HAVE BEEN REMOVED FROM WALLS, PATCH WALL AND PAINT TO NEAREST "EYE BREAK" OR MASONRY UNIT. OBTAIN THE APPROPRIATE PAINT COLOR FROM THE OWNER OR USE COMPUTER COLOR MATCHING BY THE PAINT SUPPLIER.
11. WHERE EXISTING PIPING, DUCTWORK, EQUIPMENT, CONTROLS, CONDUIT, WIRE MOLD, ETC. HAVE BEEN REMOVED FROM CEILINGS, PATCH CEILING AND BLEND PAINT INTO EXISTING AS MUCH AS POSSIBLE. OBTAIN THE APPROPRIATE PAINT COLOR FROM THE OWNER OR USE COMPUTER COLOR MATCHING BY THE PAINT SUPPLIER.
12. WHERE EXISTING PIPING, DUCTWORK, EQUIPMENT, CONDUIT, SUPPORT PADS ETC. HAVE BEEN REMOVED FROM FLOORS, PATCH FLOOR TO MATCH EXISTING MATERIALS, COLOR AND SURFACE FINISH TO MATCH EXISTING AND BLEND PAINT INTO EXISTING AS MUCH AS POSSIBLE. OBTAIN SPARE TILE AND OR CARPET MATERIAL FROM THE OWNER WHERE POSSIBLE.
13. WHERE PIPING, CONDUIT, DUCTWORK, CONTROLS, EQUIPMENT, ETC ARE CALLED FOR TO BE DEMOLISHED, REMOVE ALL ASSOCIATED HANGERS, SUPPORTS AND OTHER ASSOCIATED AND OR CONNECTED ITEMS ABANDONED AS A RESULT OF THE DEMOLITION.

IDENTIFICATION:

1. PROVIDE PLASTIC LAMINATE IDENTIFICATION LABELS ON ALL EQUIPMENT SCHEDULED ON THE DRAWINGS. THE IDENTIFICATION SHALL BE CONSISTENT WITH THE PLANMARKS SHOWN ON THE DRAWINGS AND THE BAS SYSTEM USER INTERFACE. SEE DETAILS ON DRAWINGS REGARDING COLOR, SIZE, TEXT HEIGHT, ETC.
2. PROVIDE PLASTIC LAMINATE IDENTIFICATION LABELS ON ALL TEMPERATURE CONTROL COMPONENTS SUCH AS VALVE AND DAMPER ACTUATORS, CONTROL PANELS, TEMPERATURE SENSORS, HUMIDITY SENSORS, ETC. THE IDENTIFICATION SHALL BE CONSISTENT WITH THE PLANMARKS SHOWN ON THE DRAWINGS WHERE AVAILABLE AND THE BAS SYSTEM USER INTERFACE. SEE DETAILS ON DRAWINGS REGARDING COLOR, SIZE, TEXT HEIGHT, ETC.
3. PROVIDE IDENTIFICATION LABELS ON ALL PIPING SYSTEMS. SEE DETAILS ON DRAWINGS REGARDING COLOR, SIZE, TEXT HEIGHT, ETC.
4. PROVIDE A STENCILED LABEL ON ALL ACCESS DOORS PROVIDED FOR ACCESS TO FIREDAMPERS. THE STENCILED LABEL SHALL BE RED, 2" HIGH AND READ "FD"
5. PLASTIC LAMINATE SIGNS AND LABELS ON OUTDOOR EQUIPMENT SHALL BE FIXED TO EQUIPMENT WITH STAINLESS STEEL OR ALUMINUM RIVETS OR STAINLESS STEEL OR PLATED SCREWS.
6. CLEAN EQUIPMENT AND PIPING PRIOR TO AFFIXING ADHESIVE TYPE LABELS AND SIGNS.

DUCTWORK - GENERAL:

1. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER THE LATEST VERSION OF THE S.M.A.C.N.A. H.V.A.C. DUCT CONSTRUCTION STANDARDS. UNLESS SPECIFIED MORE STRINGENTLY ELSEWHERE IN THESE CONSTRUCTION DOCUMENTS.
2. ALL 90° RECTANGULAR ELBOWS, 2" PRESSURE CLASS AND BELOW, SHALL BE EQUIPPED WITH SINGLE THICKNESS TURNING VANES MOUNTED TO A PREFABRICATED VANE RAIL, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
3. ALL RECTANGULAR 90° ELBOWS, 3" PRESSURE CLASS AND HIGHER, SHALL BE RADIUS TYPE, EQUIPPED WITH 3 SPLITTER VANES FOR DUCT 40" AND WIDER, AND TWO SPLITTER VANES FOR DUCTS 39" WIDE AND SMALLER. SPACE AND MOUNT SPLITTER VANES ACCORDING TO THE S.M.A.C.N.A. STANDARDS.
4. ALL RECTANGULAR RADIUS ELBOWS TO BE FABRICATED WITH AN INSIDE RADIUS NO LESS THAN 1/2 OF WIDTH OF THE DUCT. THE WIDTH IS DEFINED AS THE DIMENSION OF THE DUCT IN THE PLANE IN WHICH THE DUCT IS TURNING.
5. RECTANGULAR DUCTWORK SHALL BE SUPPORTED PER THE S.M.A.C.N.A. STANDARDS AND AT EACH CHANGE IN DIRECTION.
6. "BULL HEAD" RECTANGULAR TEES WITH OR WITHOUT TURNING VANES AND SPIRAL DUCT TEES ARE NOT ACCEPTABLE.
7. PROVIDE MANUAL, SINGLE BLADE, BALANCING DAMPERS WITH LOCKING QUADRANT AND INTEGRAL POSITION INDICATOR ON ALL RUNOUTS TO SUPPLY AND EXHAUST AIR DEVICES.
8. PROVIDE MANUAL OPPOSED BLADE, BALANCING DAMPERS WITH LOCKING QUADRANT AND INTEGRAL POSITION INDICATOR ON ALL RECTANGULAR BRANCH DUCTS AND AIR DEVICE RUNOUTS THAT EXCEED 12" IN HEIGHT.
9. MANUAL SPLITTER DAMPERS ARE NOT ACCEPTABLE.
10. ALL DUCT, 3" PRESSURE CLASS AND HIGHER, SHALL BE SEALED EXTERNALLY AT EACH JOINT AND INTERNALLY ALONG ALL LONGITUDINAL SEAMS.
11. ALL DUCT, 3" PRESSURE CLASS AND HIGHER, SHALL BE EXTERNALLY SEALED AT EACH JOINT.
12. ALL DUCTWORK LOCATED WITHIN MECHANICAL ROOMS SHALL BE SEALED EXTERNALLY AT EACH JOINT REGARDLESS OF PRESSURE CLASS.
13. ALL DUCTWORK SHALL BE PROVIDED WITH SEISMIC RESTRAINTS IN ACCORDANCE WITH THE SEISMIC RESTRAINT MANUAL: GUIDELINES FOR MECHANICAL SYSTEMS, 3RD EDITION 2008, AS PUBLISHED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION, INC. (SMACNA) AS WELL AS ALL LOCAL CODES.
14. ALL DUCTWORK SHALL BE SUPPORTED FROM ROOF OR FLOOR STRUCTURE ABOVE. DUCTWORK SHALL NOT LAY ON TOP OF CEILING OR LIGHT FIXTURES.
15. FLEXIBLE DUCT RUNOUTS TO AIR DEVICES SHALL NOT EXCEED 5'-0" IN LENGTH. FLEXIBLE RUNOUTS SHALL BE TRIMMED TO THE MINIMUM LENGTH NECESSARY TO MAKE THE CONNECTION.
16. WHERE DAMPER ACTUATORS ARE MOUNTED TO DUCTWORK OR PLENUMS PROVIDE A HEAVY GAGE BASE PLATE, ANGLE STIFFENERS OR MOUNTING AS REQUIRED TO ELIMINATE DEFLECTION OF DUCTWORK DURING ACTUATOR OPERATION.
17. COORDINATION OF DUCT SYSTEM INSTALLATION WITH OTHER TRADES SHALL BE PERFORMED PRIOR TO THE FABRICATION OF ANY DUCTWORK. VERIFY DUCT CLEARANCES PRIOR TO FABRICATION. NOTIFY THE ARCHITECT/ENGINEER OF ANY CONFLICTS THAT REQUIRE DIMENSIONAL CHANGES OR REQUIRE MAJOR RELOCATION OF DUCTWORK.
18. PROVIDE STANDARD FLEXIBLE DUCT CONNECTIONS ON ALL FAN POWERED TERMINAL UNITS, FAN COIL UNITS, FURNACES, BLOWER COILS AND EXHAUST FANS.
19. PROVIDE HIGH TEMPERATURE SYSTEM FLEXIBLE CONNECTORS ON ALL KITCHEN AND DISHWASHER EXHAUST EQUIPMENT AND DUCTWORK.
20. PROVIDE 45° FLARED TAKEOFFS FOR ALL RECTANGULAR BRANCH DUCT CONNECTIONS TO THE MAIN DUCT.
21. ALL DUCTWORK SIZES SHOWN ARE EXTERNAL DIMENSIONS. ALLOWANCE HAS BEEN MADE FOR 1" DUCTLINER WHERE AND IF REQUIRED. SEE DUCTWORK SCHEDULE ON DRAWINGS.

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ISSUANCE SCHEDULE

NUMBER	DATE	DESCRIPTION

GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT

INTERIOR TERMINAL I19 RENOVATION

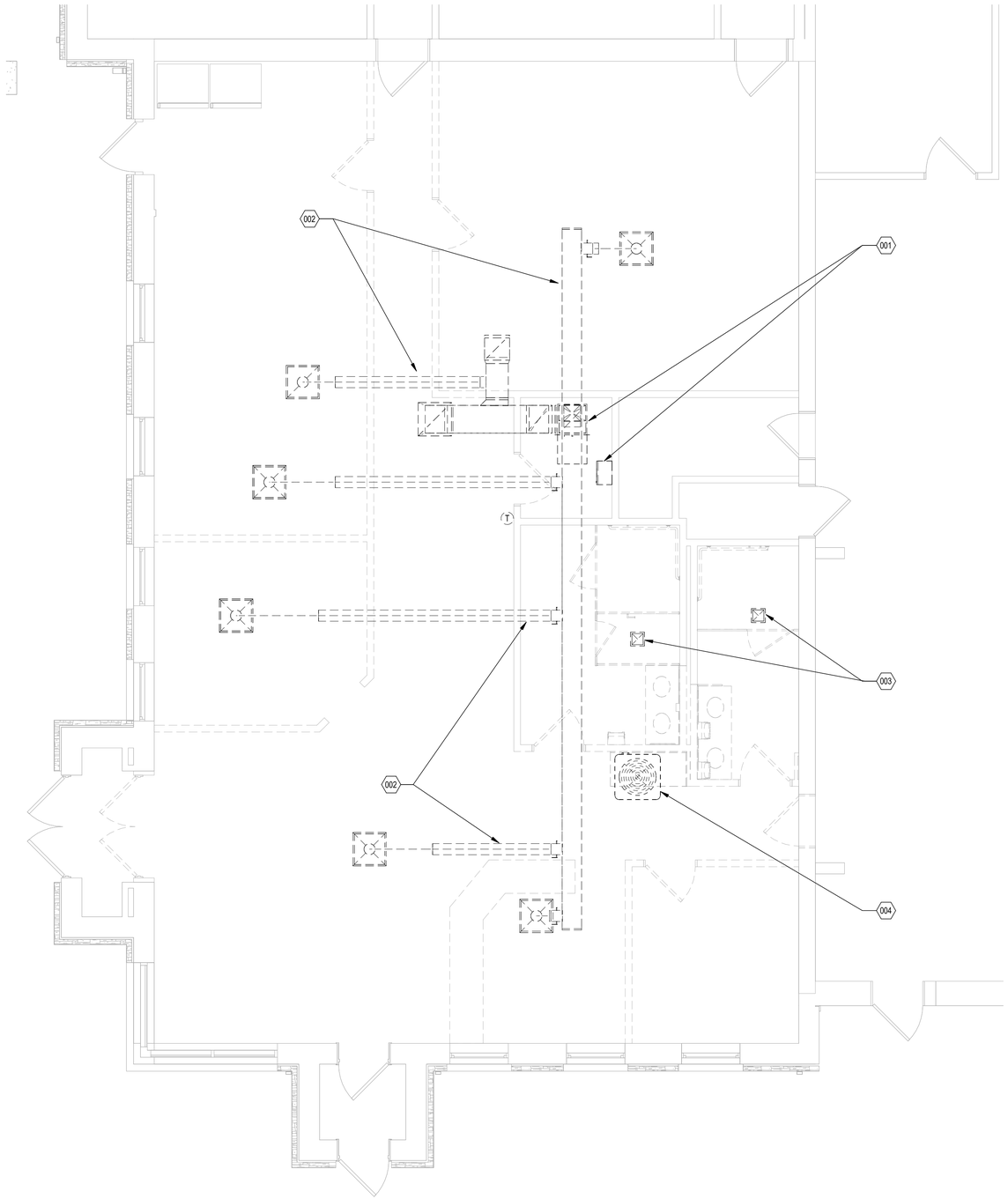
140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 12/02/2022

DESIGNED BY: D. THOMA
DRAWN BY: E. REEVE
CHECKED BY: M. BEHRMANN

SHEET NAME:
MECHANICAL NOTES

SHEET NO:
M-002

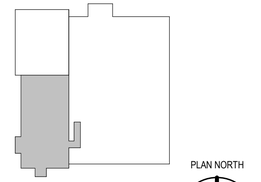


A2 FIRST FLOOR MECHANICAL DEMOLITION PLAN
1/4" = 1'-0"

GENERAL NOTES:

SHEET KEYNOTES:

001 REMOVE EXISTING FURNACE AND ASSOCIATED DUCTWORK, PIPING AND THERMOSTAT. SEE NEW WORK PLAN
002 REMOVE EXISTING DUCTWORK AND AIR DEVICES
003 REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK
004 REMOVE EXISTING CONDENSING UNIT LOCATED ON ROOF



KEY PLAN
NOT TO SCALE

1/4"=1'-0" 0 2' 4' 8' 12'

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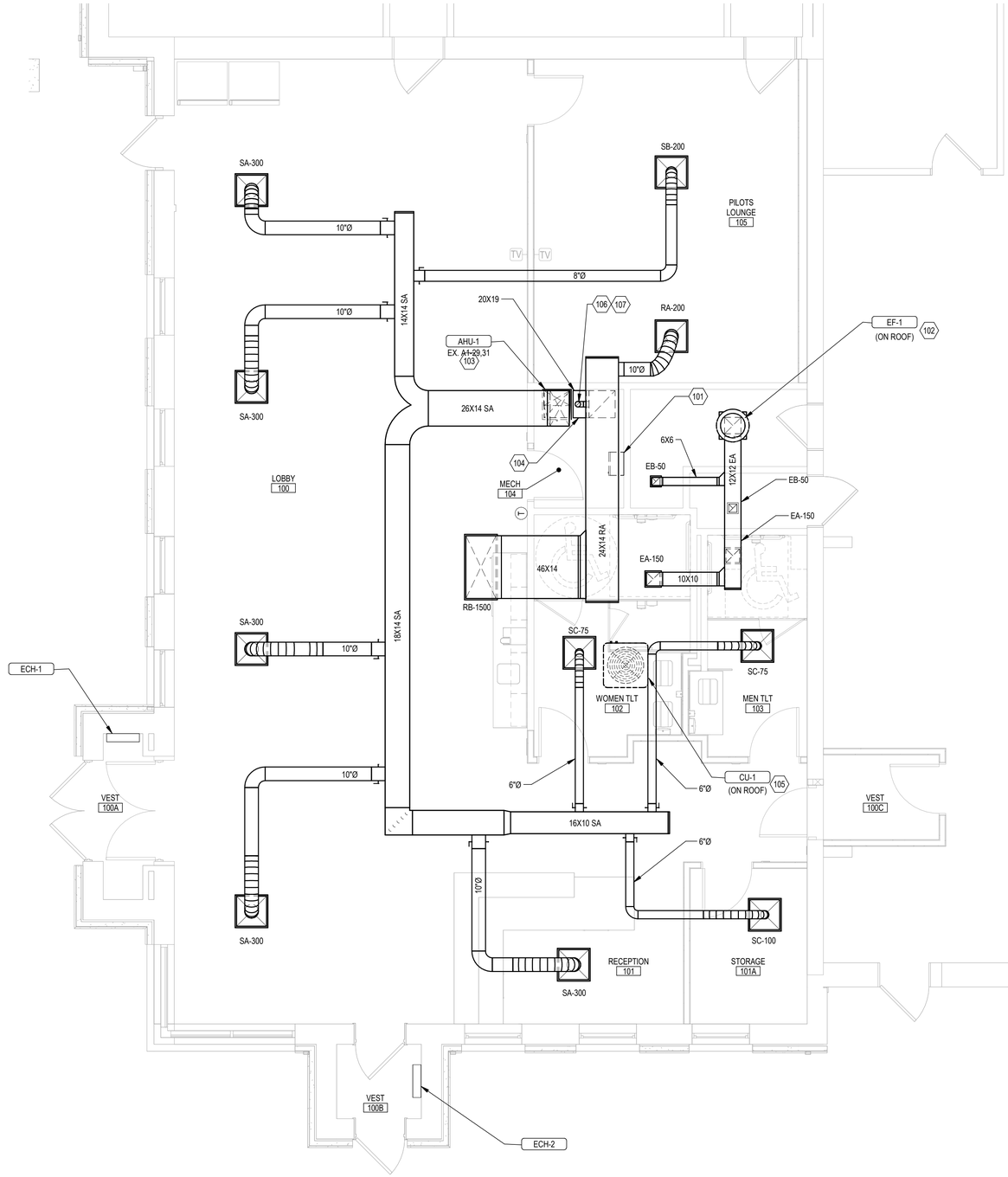
SHEET NAME:
FIRST FLOOR MECHANICAL DEMOLITION PLAN

SHEET NO:
MD101



A2 FIRST FLOOR MECHANICAL PLAN

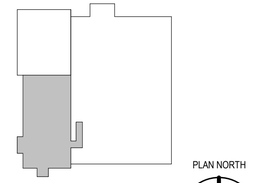
1/4" = 1'-0"

GENERAL NOTES:

A SEE ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLAN

SHEET KEYNOTES:

101 7-DAY PROGRAMMABLE TIME CLOCK
102 EXHAUST FAN ON ROOF, SEE SCHEDULE. FAN TO BE CONTROLLED BY TIME CLOCK, FAN TO ENERGIZE WHEN BUILDING IS OCCUPIED
103 FURNACE, SEE SCHEDULE
104 CONNECT CONDENSATE DRAIN (FULL SIZE) TO EXISTING CONDENSATE DRAIN LINE
105 CONDENSING UNIT ON ROOF, SEE SCHEDULE
106 OUTSIDE AIR DUCT UP THRU ROOF. PROVIDE GOOSENECK TERMINATION ABOVE ROOF. REFER TO DETAIL
107 MOTORIZED BALANCE DAMPER FOR VENTILATION AIR. BALANCE TO AIRFLOW TO 250 CFM. INTERLOCK WITH FURNACE OPERATION. DAMPER SHALL BE OPEN WHEN BUILDING IS OCCUPIED



KEY PLAN
NOT TO SCALE

1/4"=1'-0" 0 2' 4' 8' 12'

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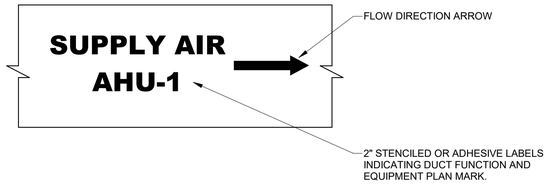
FIRST FLOOR MECHANICAL PLAN

SHEET NO:
M-101



NOTES:

1.) STENCIL OR LABEL COLORS SHALL CONTRAST WITH THE DUCT SYSTEM COLOR. USE BLACK ON FOIL FACED DUCT INSULATION.

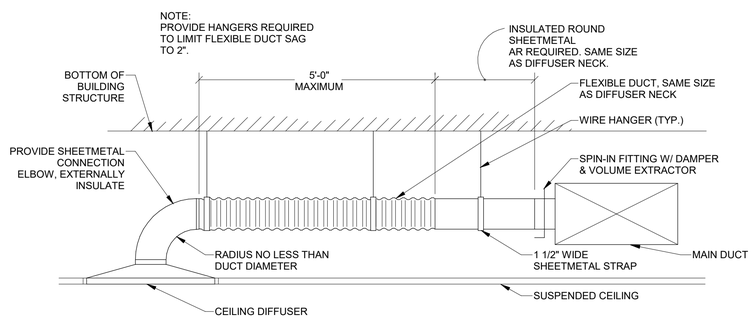
2.) LABEL ALL ACCESSIBLE DUCT SYSTEMS AFTER EXITING A MECHANICAL ROOM OR CHASE AND BEFORE ENTERING A MECHANICAL ROOM OR CHASE.

3.) LABEL DUCT SYSTEMS WHERE MULTIPLE DUCT SYSTEMS OCCUR IN A CONCENTRATED AREA OR CROSS PATHS. STENCIL PAINT SHALL BE AN ALKYD BASED GLOSS OR SEMI-GLOSS.

4.) CLEAN DUCTWORK PRIOR TO STENCILING OR APPLYING ADHESIVE LABELS.

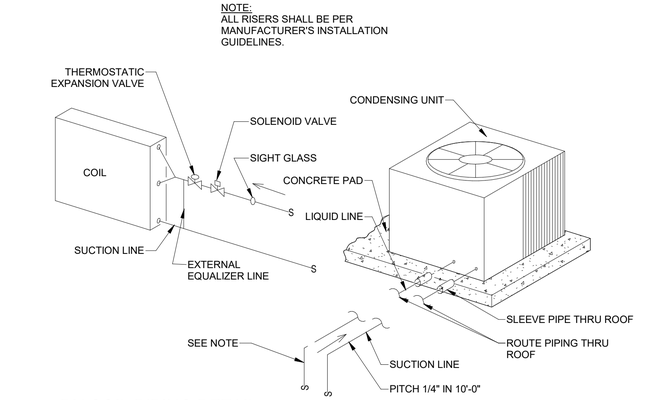
D2 DUCT SYSTEM LABELING DETAIL

NTS



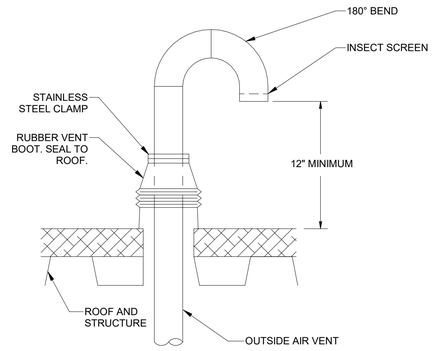
D5 AIR DEVICE RUNOUT CONNECTION DETAIL

NTS



B5 DX COIL PIPING DETAIL

NTS



A6 OUTSIDE AIR GOOSENECK DETAIL

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CHECKED BY: M. BEHRMANN

SHEET NAME:
MECHANICAL DETAILS

SHEET NO:
M-501

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AIR DEVICE SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	NECK SIZE	FUNCTION	LOCATION	THROW	MATERIAL	NOTES
EA	TITUS	50F	10X10	EXHAUST	CEILING	-	ALUMINUM	1,2,5
EB	TITUS	50F	6X6	EXHAUST	CEILING	-	ALUMINUM	1,2,5
RA	TITUS	355RL	22X22 (8"Ø)	RETURN	CEILING	-	STEEL	1,2,3,6
RB	TITUS	23RL	46X22	RETURN	CEILING	-	STEEL	1,2,3,6
SA	TITUS	TDC	18X18 (10"Ø)	SUPPLY	CEILING	4-WAY	STEEL	1,2,4
SB	TITUS	TDC	18X18 (8"Ø)	SUPPLY	CEILING	4-WAY	STEEL	1,2,4
SC	TITUS	TDC	18X18 (6"Ø)	SUPPLY	CEILING	4-WAY	STEEL	1,2,4

NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPE
2. STANDARD WHITE FINISH
3. HORIZONTAL FRONT BLADES (PARALLEL TO LONG DIMENSION)
4. LOUVERED FACE
5. EGG CRATE FACE
6. 1/2" BLADE SPACING

GENERAL NOTES:

1. PROVIDE LAY-IN CEILING PANELS FOR ALL AIR DEVICES MOUNTED IN LAY-IN CEILINGS. DO NOT MOUNT AIR DEVICE IN CEILING TILE.
2. PROVIDE OPPOSED BLADE DAMPERS IN NECK WHERE DAMPERS IN RUNOUT WOULD BE INACCESSIBLE.
3. ALL AIR DEVICES SHALL BE SELECTED FOR 25 NC OR LOWER AS DESIGNED UNLESS NOTED OTHERWISE.

INDOOR ELECTRIC FURNACE SCHEDULE

PLAN MARK	AREA SERVED	MFR.	MODEL	ELECTRIC HTG. CAPACITIES				BLOWER			ELECTRICAL					COOLING COIL CAPACITIES						NOTES AND ACCESSORIES
				KW	EAT (°F)	LAT (°F)	STAGES	NOM. CFM	ESP "WC	HP	TOTAL AMPS	PROPERTIES			MOP	SENS. MBH	TOTAL MBH	EAT		SEER	OPER. WEIGHT	
												VOLTAGE	PHASE	FREQUENCY				DB	WB			
AHU-1	LOUNGE/LOBBY	TRANE	4TEC3H60A	10	60.0	95.0	5	1800.0	0.50	0.75	30.0	240	1	60	50.0	52.0	60.0	78.0	72.0	14	185	1,2,3,4

NOTES:

1. UPFLOW CONFIGURATION WITH SIDEWALL RETURN
2. COOLING COIL WITH ENCLOSURE
3. PROVIDE BACNET COMPATIBLE SEVEN DAY PROGRAMMABLE THERMOSTAT WITH DIGITAL DISPLAY, AND TOUCH SCREEN
4. VARIABLE SPEED BLOWER
5. PROVIDE UNIT MFR APPROVED HOUSEKEEPING PAD

EXHAUST FAN SCHEDULE

PLAN MARK	AREA SERVED	MFR.	MODEL	TYPE	CFM	ESP ("WC)	RPM	DRIVE	SONES	ELECTRICAL					OPER. WEIGHT (LBS)	NOTES
										HP	VOLT	PH	HZ	FLA		
EF-1	TOILET RMS	GREENHECK	VG-1/6	RMC	400	0.50	1725	DIRECT	8.7	0.125	120	1	60	11.0	25	1,2,3,4

NOTES:

1. 14" ALUMINUM INSULATED ROOF CURB WITH DAMPER TRAY
2. UNIT MOUNTED DISCONNECT SWITCH
3. GRAVITY BACKDRAFT DAMPER
4. FAN TO BE CONTROLLED BY TIME-CLOCK

FAN TYPE LEGEND:

AFC	AXIAL FLOW CENTRIFUGAL
CMC	CEILING MTD CENTRIFUGAL
CVS	CENTRIFUGAL VENT SET
ILC	INLINE CENTRIFUGAL FAN
WMC	WALL MTD CENTRIFUGAL FAN
WMP	WALL MTD PROPELLER FAN
RMC	ROOF MTD CENTRIFUGAL FAN
RMP	ROOF MTD PROPELLER FAN
RMUP	ROOF MTD UPBLAST FAN
TAP	TUBE AXIAL PROPELLER

NOTE: FANS SELECTIONS BASED UPON A MEDIUM DRIVE LOSS FOR BELT DRIVEN MODELS. ALL FANS SELECTED AT AN ALTITUDE OF 500 FT AND 70°F UNLESS NOTED OTHERWISE.

ELECTRIC CABINET HEATER SCHEDULE

PLAN MARK	AREA SERVED	MFR.	MODEL	TYPE	CFM	KW	STEPS	MBH	ELECTRICAL				OPER. WEIGHT (LBS)	NOTES
									VOLT	PH	HZ	FLA		
ECH-1	VESTIBULE	MARKEL	3420	WALL HEATER	200	3.0	3	10.2	208	1	60	10.8	44	1,2,3,4,5,6
ECH-2	VESTIBULE	MARKEL	3420	WALL HEATER	200	3.0	3	10.2	208	1	60	10.8	44	1,2,3,4,5,6

NOTES:

1. INTERNAL TAMPERPROOF DOUBLE-POLE THERMOSTAT / CIRCUIT BREAKER DISCONNECT
2. THERMOAL OVERLOAD CUT OUT
3. LOUVERED GRILLE COVER
4. SURFACE WALL MOUNT
5. 2-POLE DISCONNECT SWITCH
6. INTEGRAL THERMOSTAT

AIR-COOLED CONDENSING UNIT SCHEDULE

PLAN MARK	ASSOCIATED INDOOR UNIT	MANUFACTURER	MODEL	COOLING CAPACITY			COMPRESSOR		CONDENSER		MIN. UNIT SEER	REFRIG.	ELECTRICAL				NOTES
				SENS. (MBH)	TOTAL (MBH)	AMB. TEMP (°F)	QTY	TONS EA	# OF CKTS	# OF FANS	HP EA			V	PH	MCA	MOCP	
CU-1	F-1	TRANE	4TTR7060	41.2	55.5	95	1	5	1	1	0.25	16	410A	230	1	41.0	60.0	1,2,3

NOTES:

1. PROVIDE UNIT WITH LOW AMBIENT OPERATION KIT, CRANKCASE HEATER AND SUPPORT LEGS
2. COMPRESSOR SHALL BE CAPABLE OF 2 SPEED OPERATION
3. PROVIDE EXTERIOR RATED DISCONNECT SWITCH FOR UNIT. WIRING BY ELECTRICAL CONTRACTOR

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PROJECT NO: 10012540
DATE ISSUED: 12/02/2022

DESIGNED BY: D. THOMA
DRAWN BY: E. REEVE
CHECKED BY: M. BEHRMANN

SHEET NAME:
MECHANICAL SCHEDULES

SHEET NO:
M-601

SEQUENCE OF OPERATION

GENERAL

1. THE MECHANICAL CONTROL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL NECESSARY TEMPERATURE CONTROLS, CONTROLLERS, CONTROL INTERFACE DEVICES (DEVICES ALLOWING DIFFERENT CONTROL COMPONENTS TO COMMUNICATE WITH EACH OTHER), DAMPERS, CONTROL VALVES, THERMOSTATS, SENSORS, RELAYS, SWITCHES, ACTUATORS, TRANSFORMERS, AND CONTROL WIRING & CONDUIT SYSTEMS REQUIRED TO PROVIDE THE SPECIFIED SEQUENCE OF OPERATIONS
2. THE OWNERS BUILDING USE SCHEDULE (OCCUPIED AND UNOCCUPIED PERIODS FOR THE BUILDING'S HVAC ZONES) PROGRAMMED BY CONTRACTOR. COORDINATE WITH OWNER FOR REQUIRED SCHEDULE REQUIREMENTS. SCHEDULE SHALL BE ADJUSTABLE BY OWNER

OCCUPIED / UNOCCUPIED DESIGN SET POINTS

OCCUPIED CONDITIONS:

ZONE TYPE:
CONDITIONED SPACES = 75°F DB
HEATED SPACES = 70°F DB

RETURN AIR RH HUMIDITY HIGH LIMIT:
60%RH (TYPICAL)

ALL SET POINTS SHALL BE ADJUSTABLE

UNOCCUPIED CONDITIONS:

ZONE TYPE:
CONDITIONED SPACES = 78°F DB
HEATED SPACES = 67°F DB

RETURN AIR RH HUMIDITY HIGH LIMIT:
60%RH (TYPICAL)

ALL SET POINTS SHALL BE ADJUSTABLE

EXHAUST FAN (EF-1)

1. FAN ACTIVATION (START/STOP) SHALL BE CONTROLLED BY PROGRAMMABLE TIME CLOCK

ELECTRIC CABINET HEATER (ECH-1)

1. THE FAN SHALL CYCLE ON A CALL FOR HEATING FROM INTEGRAL THERMOSTAT.

ELECTRIC FURNACES (F-1) & CONDENSING UNITS (CU-1)

FAN:
THE SUPPLY FAN WILL OPERATE INTERMITTENTLY UPON A CALL FOR HEATING OR COOLING BY THE SPACE THERMOSTAT.

COOLING:
UPON A CALL FOR COOLING FROM THE SPACE THERMOSTAT, THE COMPRESSORS SHALL CYCLE TO SATISFY THE THERMOSTAT COOLING TEMPERATURE SET-POINT. WHEN THERMOSTAT COOLING SET POINT IS MAINTAINED CU SHALL BE OFF.

HEATING:
UPON A CALL FOR HEATING FROM THE SPACE THERMOSTAT, THE HEAT PUMP WILL ACTIVATE AS NEEDED TO MAINTAIN HEATING TEMPERATURE SET-POINT. IF HEAT PUMP CANNOT SATISFY SPACE TEMPERATURE SET-POINT, THEN THE ELECTRIC HEATER WILL ENERGIZE AND OPERATE UNTIL SPACE TEMPERATURE SET-POINT IS MAINTAINED. WHEN HEATING SET-POINT IS MAINTAINED, UNIT SHALL OFF

OUTSIDE AIR INTAKE DAMPER:
THE TIME CLOCK WILL CONTROL THE OUTSIDE AIR DAMPER. THE OUTSIDE AIR DAMPER SHALL OPEN WHEN THE BUILDING IS OCCUPIED AND SHALL CLOSE WHEN THE BUILDING IS UNOCCUPIED. THE OUTSIDE AIR INTAKE DAMPER SHALL OPEN TO ITS PRESET MINIMUM BALANCED POSITION. THE OWNER'S BUILDING USE SCHEDULE (OCCUPIED AND UNOCCUPIED PERIODS) SHALL BE PROGRAMMED BY THE CONTRACTOR. CONTRACTOR TO COORDINATE WITH OWNER FOR REQUIRED SCHEDULE REQUIREMENTS. THE SHEDULE SHALL BE ADJUSTABLE BY THE OWNER.

UNOCCUPIED MODE - SETBACK MODE:
OPERATION SHALL BE AS DESCRIBED ABOVE WITH COOLING TEMPERATURE SET POINT 3 DEGREES ABOVE OCCUPIED AND HEATING SET POINT 3 DEGREES BELOW OCCUPIED SET POINT.

HVAC SYSTEM PIPING AND INSULATION SCHEDULE

PIPING SYSTEM	LOCATION	PIPE MATERIAL AND TYPE						FITTING TYPE AND MATERIALS						PIPE AND FITTING JOINING METHOD				PIPE AND FITTING INSULATION						PIPE JKT		FTG JKTS		NOTES
		≤ SIZE	MAT	T/S	≥SIZE	MAT	T/S	≤ SIZE	TYPE/MAT	CL/SCH	≥SIZE	TYPE/MAT	CL/SCH	≤ SIZE	METHOD	≥SIZE	METHOD	≤ SIZE	TH	TYPE	≥SIZE	TH	TYPE	MAT	VB	MAT	VB	
AC CONDENSATE DRAIN	MECHANICAL ROOM	3"	CU	L	-	-	-	3"	WCU	-	-	-	-	3"	SW, THRD, BR	-	-	3"	.5"	UC	4"	1"	UC	-	-	-	-	3
REFRIGERATION LIQUID	EXPOSED INDOORS	3"	ACR	-	-	-	-	3"	WCU	-	-	-	-	3"	BR	-	-	-	-	-	-	-	-	-	-	-	-	1
REFRIGERATION LIQUID	MECHANICAL ROOMS AND OUTDOORS	3"	ACR	-	-	-	-	3"	WCU	-	-	-	-	3"	BR	-	-	-	-	-	-	-	-	-	-	-	-	
REFRIGERATION SUCTION	EXPOSED INDOORS	3"	ACR	-	-	-	-	3"	WCU	-	-	-	-	3"	BR	-	-	.75"	.5"	UC	1"	1"	UC	-	-	-	-	1
REFRIGERATION SUCTION	MECHANICAL ROOMS	3"	ACR	-	-	-	-	3"	WCU	-	-	-	-	3"	BR	-	-	.75"	.5"	UC	1"	1"	UC	-	-	-	-	
REFRIGERATION SUCTION	OUTDOORS	3"	ACR	-	-	-	-	3"	WCU	-	-	-	-	3"	BR	-	-	.75"	.5"	UC	1"	1"	UC	-	-	-	-	2

SCHEDULE NOTES:

1. PAINT PER COLOR SELECTED BY THE ARCHITECT. USE PAINT OR COATING THAT IS SUITABLE FOR THE SURFACE ON WHICH IT IS BEING APPLIED.
2. PROVIDE A PROTECTIVE COATING OVER INSULATION AS RECOMMENDED BY THE MANUFACTURER ON ALL PIPE INSULATION INSTALLED OUTDOORS.
3. WHERE CONDENSATE PIPING IS INSTALLED AT FLOOR LEVEL IN CONDITIONED MECHANICAL ROOMS AND ARE LESS THAN 48" LONG NO INSULATION IS NEEDED, OTHERWISE INSULATE AS INDICATED..

PIPE SYSTEM COLOR SCHEDULE

PIPING SYSTEM	COLOR
CHILLED WATER	BLUE
CONDENSER WATER	GREEN
DUAL TEMPERATURE WATER	GRAY
FUEL OIL	YELLOW
HEATING HOT WATER	ORANGE
LOW PRESSURE STEAM AND CONDENSATE	WHITE
MAKE UP WATER	WHITE
NATURAL GAS	YELLOW
REFRIDGERANT PIPE OR VENT	BLACK

GENERAL NOTES:

1. INSULATED PIPING SYSTEMS THAT REQUIRE PAINTING SHALL UTILIZE MATERIALS, TAPES, JACKETS, SEALANTS, ETC. THAT ARE SUITABLE FOR PAINTING. COORDINATE PAINTING REQUIREMENTS PRIOR TO INSTALLATION OF ANY INSULATION OR JACKETS.
2. WHERE PVC JACKET IS CALLED FOR, BUT NO COLOR SPECIFIED, USE WHITE.

PIPE SYSTEM ABBREVIATION SCHEDULE

ACR	ACR COPPER	GS	GALVANIZED STEEL	SS	STAINLESS STEEL
AL-C	CORRUGATED ALUMINUM	HDPE	HIGH DENSITY POLYETHYLENE	SW	SWEAT CONNECTION
AL-E	EMBOSSED ALUMINUM	HF	HEAT FUSION	SWLD	SOLVENT WELD
ASJ	ALL SERVICE JACKET	MAT	MATERIAL	T/S	TYPE OR SCHEDULE
BND	BONDED	MF	MECHANICAL FITTING OR JOINT	TH	THICKNESS
BR	BRAZED	MI	MALLEABLE IRON	THRD	THREADED
CCP	CALCIUM SILICATE POWDER	MLWA	ABOVEGROUND MULIT-LAYER WRAP	UC	FLEXIBLE ELASTOMERIC UNICELLULAR
CI	CAST IRON	MLWU	UNDERGROUND MULIT-LAYER WRAP	VB	VAPOR BARRIER
CPVC	CHLORINATED PVC	N	NO	WCU	WROUGHT COPPER
CS	CARBON STEEL	PE	POLYETHYLENE	WLD	WELDED
CU	COPPER	PI	POLYISOCYANURATE FOAM	Y	YES
FG	FIBERGLASS	PP	POLYPROYLENE	≤	LESS THAN OR EQUAL TOO (SEE SPECIFICATIONS)
FLGD	FLANGED	PRESS	PRESSURE	≥	GREATER THAN OR EQUAL TOO (SEE SPECIFICATIONS)
FMG	FOAM GLASS	PU	POLYETHANE FOAM		
FS	FORGED STEEL	PVC	POLYVINYL CHLORIDE		
GR	GROOVED	PVDC	POLYVINYLIDENE CHLORIDE		

HVAC DUCTWORK SCHEDULE (ASHRAE 90.1 CLIMATE ZONE 4)

DUCT SYSTEM	FUNCTION	SHAPE	LOCATION	PRESSURE CLASS *wg	MATERIAL	GAGE	LINER TH	LINER TYPE	LINER D	INSULATION TH	INSULATION TYPE	INSULATION D	INSULATION JACKET	NOTES
AHU-1	SUPPLY	ALL	ABOVE CEILING, IN CHASES	2"	GS	*	-	-	-	2"	FGW	1.5	FFJ	
AHU-1	RETURN	ALL	ABOVE CEILING, IN CHASES	2"	GS	*	1"	MFF	1.5	-	-	-	-	
AHU-1	OUTSIDE AIR	ALL	ABOVE CEILING, IN CHASES	2"	GS	*	1"	MFF	1.5	-	-	-	-	
AIR DEVICE RUNOUTS	SUPPLY	RND	ABOVE CEILING - NOT SHOWN AS FLEX ON PLANS	1"	GS	*	-	-	-	1.5"	FGW	1.0	FFJ	
AIR DEVICE RUNOUTS	SUPPLY	RND	ABOVE CEILING	1"	IFD	*	-	-	-	-	-	-	-	
EF-1	GENERAL EXHAUST	ALL	EXPOSED TO VIEW	1"	GS	*	-	-	-	-	-	-	-	

GENERAL NOTES:

1. ALL INTERIOR CONCEALED SUPPLY, RETURN OR OUTSIDE AIR DUCTWORK NOT SPECIFICALLY LISTED ABOVE SHALL BE INSULATED WITH 1.5" FIBERGLASS WRAP WITH A FOIL FACED JACKET.
2. ALL INTERIOR EXPOSED SUPPLY, RETURN OR OUTSIDE AIR DUCTWORK NOT SPECIFICALLY LISTED ABOVE SHALL BE INSULATED WITH 2" FIBERGLASS BOARD WITH A FOIL FACED JACKET.
3. ALL EXTERIOR SUPPLY OR RETURN AIR DUCT NOT SPECIFICALLY LISTED ABOVE SHALL BE INSULATED WITH 2" OF EXTRUDED POLYSTYRENE BOARD WITH AN ALUMINUM JACKET.
4. SOUND SENSITIVE AREAS SHALL INCLUDE AS A MINIMUM ALL CLASSROOMS, TRAINING AREAS, MUSIC ROOMS, LIBRARIES, AUDITORIUM / STAGES, TELECONFERENCE ROOMS AND CONFERENCE ROOMS.
5. ALL RECTANGULAR DUCTWORK SIZES INDICATED ON THE DRAWINGS REFLECT SHEET METAL DIMENSIONS. ALLOWANCE HAS BEEN MADE FOR 1" DUCTLINER WHERE AND IF REQUIRED.
6. ALL DOUBLE WALL ROUND DUCTWORK SIZES INDICATED ON THE DRAWINGS REFLECT THE INSIDE DIAMETER.

ASHRAE 90.1 DUCT SEALING REQUIREMENTS

DUCT TYPE & PRESSURE CLASS	SMACNA DUCT SEALING CLASS/LEVEL		
	OUTDOOR DUCT	UNCONDITIONED SPACE*	CONDITIONED SPACE**
SUPPLY 2"w.g. AND BELOW	A	B	C
SUPPLY GREATER THAN 2" w.g.	A	A	B
EXHAUST 2"w.g. AND BELOW	C	C	B
EXHAUST GREATER THAN 2" w.g.	A	B	C

* UNCONDITIONED SPACE: INTERIOR SPACE NOT DIRECTLY OR INDIRECTLY HEATED AND/OR COOLED. MECHANICAL ROOF PENTHOUSES ARE UNCONDITIONED SPACES.
** CONDITIONED SPACE = INTERIOR SPACES THAT ARE DIRECTLY OR INDIRECTLY HEATED AND/OR COOLED. THESE SPACES INCLUDE RETURN AIR PLENUMS.

DUCT SEALING NOTES:

1. SEAL CLASS A: TRAVERSE AND LONGITUDINAL JOINTS AND DUCT WALL PENETRATIONS TO BE SEALED
2. SEAL CLASS B: TRAVERSE AND LONGITUDINAL JOINTS TO BE SEALED
3. SEAL CLASS C: TRAVERSE JOINTS ONLY TO BE SEALED
4. ALL DUCTWORK CARRYING HAZARDOUS FUMES (CLASS 3 OR 4 AIR), NOT REQUIRING LIQUID TIGHT JOINTS AND SEAMS, REGARDLESS OF PRESSURE CLASS OR LOCATION SHALL BE SMACNA SEAL CLASS A.
5. ALL DUCTWORK SERVING COMMERCIAL KITCHEN HOODS, DISHWASHERS OR WHERE SPECIFIED, SHALL HAVE WELDED, LIQUID TIGHT JOINTS AND SEAMS. USE APPROPRIATE GASKETS AND SEALANTS WHERE WELDING IS NOT POSSIBLE.

*** 20 GAGE MINIMUM, OTHERWISE SMACNA STANDARD FOR PRESSURE CLASS INDICATED
** 22 GAGE MINIMUM, OTHERWISE SMACNA STANDARD FOR PRESSURE CLASS INDICATED
* PER SMACNA STANDARD FOR PRESSURE CLASS INDICATED

DUCT ABBREVIATION SCHEDULE

ABA	ADHESIVE BACKED ALUMINUM	IFD	INSULATED FLEXIBLE DUCT
AIFD	ACCOUSTICAL INSULATED FLEXIBLE DUCT	MFF	MATT FACED FIBERGLASS
ALUM	ALUMINUM	PFL	PREFORMED LINER
ASJ	ALL SERVICE JACKET	PGGS	PAINT GRIP GALVANIZED STEEL
CS	CARBON STEEL	PVCGS	PVC COATED GALVANIZED STEEL
D	DENSITY	RETC	RECTANGULAR
EPTS	EXTRUDED POLYSTYRENE	RND	ROUND
FB	FIBERGLASS BOARD	SS	STAINLESS STEEL
FFJ	FOIL FACED JACKET	TH	THICKNESS
FGW	FIBERGLASS WRAP	UFD	UNINSULATED FLEXIBLE DUCT
FPW	FIRE-PROOF WRAP		
GS	GALVANIZED STEEL		
GSSP	GALVANIZED STEEL SPIRAL PIPE		

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ISSUANCE SCHEDULE

NUMBER	DESCRIPTION	DATE

GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT

INTERIOR TERMINAL I19 RENOVATION

140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 12/02/2022

DESIGNED BY: D. THOMA
DRAWN BY: E. REEVE
CHECKED BY: M. BEHRMANN

SHEET NAME:
MECHANICAL SCHEDULES AND SEQUENCE OF OPERATIONS

SHEET NO:
M-602

GENERAL PLUMBING SYMBOLS

- REVISION NUMBER - SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- NUMBER OF DETAIL ON SHEET / NUMBER OF SHEET WHERE DETAIL APPEARS
- KEYNOTE
- CONTINUATION / PIPE BREAK SYMBOL
- ROOM / 12345 — ROOM NAME AND NUMBER
- ITEM TO BE DEMOLISHED
- AREA NOT IN CONTRACT
- 2"XX — PIPE SIZE TAG (SIZE AND SYSTEM)
- EXISTING — EXISTING PIPE TAG
- PIPING BEING DEMOLISHED WITH NOTATION
- NOTATION

PLUMBING AND PIPING SYMBOLS

CD	CONDENSATE DRAINAGE
CW	COLD WATER
CWV	COMBINATION WASTE & VENT
CA	COMPRESSED AIR
F-CW	FILTERED COLD WATER
GW	GREASE WASTE
GV	GREASE VENT
H-CW	HARD COLD WATER
HW	HOT WATER
HW-T	HOT WATER w/ TEMP. MAINT. CABLE
HWR	HOT WATER RECIRCULATION
IW	INDIRECT WASTE
G	NATURAL GAS
OW	OIL WASTE
OV	OIL VENT
OSD	OVERFLOW STORM DRAINAGE
PD	PUMP DISCHARGE
RO	REVERSE OSMOSIS WATER
SD	STORM DRAINAGE - BELOW GRADE
SS	SANITARY SEWER- ABOVE GRADE
SS	SANITARY SEWER - BELOW GRADE
S-CW	SOFT COLD WATER
V	SANITARY VENT

FIXTURE AND EQUIPMENT ABBREVIATIONS

AHU	AIR HANDLING UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP
DDC	DETECTOR DOUBLE CHECK (BACKFLOW PREVENTER)
DW	DISHWASHER
EEW	EMERGENCY EYEWASH
ET	EXPANSION TANK
EWS	EMERGENCY EYEWASH SHOWER
GD	GARBAGE DISPOSER
GI	GREASE INTERCEPTOR
IPC	INTERNATIONAL PLUMBING CODE
LT	LAUNDRY TUB
LV	LAVATORY
MAU	MAKE-UP AIR UNIT
OB	OUTLET BOX
RPZ	REDUCED PRESSURE ZONE (BACKFLOW PREVENTER)
SEP	SEWAGE EJECTOR PUMP
SK	SINK
SP	SUMP PUMP
TMV	THERMOSTATIC MIXING VALVE
USB	UTILITY SERVICE WALL BOX
UR	URINAL
WC	WATER CLOSET
WH	WATER HEATER
x-_____	DESIGNATION FOR EXISTING EQUIPMENT/FIXTURE/PIPE

GENERAL PLUMBING ABBREVIATIONS

Ø	DIAMETER
ABA	ARCHITECTURAL BARRIERS ACT
ABV	ABOVE
AC	AIR COMPRESSOR
A/C	AIR CONDITIONING
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITY ACT
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
AP	ACCESS PANEL
ARCH	ARCHITECT/ARCHITECTURAL
A/E	ARCHITECT/ENGINEER
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BEL	BELOW
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS PER HOUR
CAP	CAPACITY
CB	CATCH BASIN
CF	CUBIC FEET
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CLG	CEILING
CO	CLEANOUT
COR	CONTRACTING OFFICERS REPRESENTATIVE
CW	COLD WATER
DIA	DIAMETER
DN	DOWN
DSO	DOWNSPOUT OUTLET
DWV	DRAIN/WASTE/VENT
EA	EACH
ELEC	ELECTRICAL
EQPT	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
°F	DEGREES FAHRENHEIT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FL	FLOOR
FO	FUEL OIL
FOV	FUEL OIL VENT
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FS	FLOOR SINK
FT	FOOT/FEET
GAL	GALLON
GC	GENERAL CONTRACTOR
GFCI	GOVERNMENT FURNISHED / CONTRACTOR INSTALLED
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
HB	HOSE BIBB
HP	HORSEPOWER
HTR	HEATER
HTG	HEATING
HW	HOT WATER
HYD	HYDRANT
IN	INCH
I.E.	INVERT ELEVATION
LB	POUND
LB/HR	POUNDS PER HOUR
LPG	LIQUEFIED PETROLEUM GAS
MAX	MAXIMUM
MBH	THOUSANDS OF BTU'S PER HOUR
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
O/A	OUTSIDE AIR
ORD	OVERFLOW ROOF DRAIN
PLBG	PLUMBING
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
RD	ROOF DRAIN
RED	REDUCER
RH	ROOF HYDRANT
R-I	ROUGH-IN
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RSD	ROOF SCUPPER DRAIN
SAN	SANITARY
SF	SQUARE FOOT
SOV	SHUT-OFF VALVE
SS	SANITARY SEWER
STM	STEAM
STN STL	STAINLESS STEEL
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TYP	TYPICAL
T/P	TEMPERATURE AND PRESSURE
UG	UNDERGROUND
VAC	VACUUM
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE
WCO	WALL CLEAN OUT
WHB	WALL HYDRANT HOSE BIBB
YCO	YARD CLEANOUT

* NOTE *

*ALL GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.

*SEE PLUMBING SCHEDULES FOR ADDITIONAL KEY MARK (ABBREVIATIONS) OF FIXTURE CALLOUTS.

*NOT ALL SYMBOLS AND ABBREVIATIONS WILL NECESSAIRLY BE USED WITHIN THESE DOCUMENTS.

PROJECT PLUMBING NOTES

GENERAL PLUMBING DEMOLITION NOTES:

1. AREAS OF DEMOLITION ARE BASED ON VISIBLE FIELD CONDITIONS AND ALL NOTED DEMOLITION IS ASSUMED TO BE WITHIN THE DESIGNATED AREAS SHOWN. PROVIDE ALL NECESSARY DEMOLITION AS REQUIRED TO COMPLY WITH THE DESIGN INTENT OF THESE DOCUMENTS WHETHER SPECIFICALLY FOUND IN AREA SHOWN OR IN ADJACENT SPACES, AND AS REQUIRED TO MEET LOCAL CODE REQUIREMENTS. PLUMBING SYSTEMS (DWV, DOMESTIC WATER, ETC.) IN ALL OTHER EXISTING AREAS ARE TO REMAIN OPERATIONAL UNLESS NOTED OTHERWISE. NOTIFY OWNER PRIOR TO INTERRUPTING BUILDING SERVICES.
2. THE CONTRACTOR SHALL MAKE ALL PROVISIONS TO PROTECT THE PREMISES FROM DAMAGE DURING DEMOLITION WORK.
3. THIS CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE QUANTITY, LOCATION AND ROUTING OF ALL EXISTING PLUMBING RELATED DEVICES, FIXTURES, PIPING SYSTEMS, DRAINS AND APPURTENANCES PRIOR TO BIDDING PROJECT.
4. PLUMBING DEMOLITION IS TO INCLUDE THE REMOVAL OF ALL UNUSED PLUMBING RELATED DEVICES, PIPE, HANGERS, SUPPORTS, INSULATION, AS WELL AS ANY PREVIOUSLY ABANDONED PLUMBING PIPING SYSTEMS AND ALL MISCELLANEOUS ITEMS ASSOCIATED WITH THE CURRENTLY DEMOLISHED PLUMBING SYSTEMS NOT REMOVED UNDER THE GENERAL DEMOLITION WORK NOTED ON THE ARCHITECTURAL DRAWINGS, AS REQUIRED TO COMPLY WITH THE DESIGN INTENT OF THESE DOCUMENTS, WHETHER SPECIFICALLY NOTED OR NOT, AND AS REQUIRED TO MEET LOCAL CODE REQUIREMENTS.
5. COORDINATE WITH THE GENERAL CONTRACTOR IN REGARD TO THE DEMOLITION AND RETENTION OF SUPPLY AND DWV PIPING SYSTEMS AS REQUIRED TO COMPLETE THE WORK INDICATED IN THESE DOCUMENTS.
6. COORDINATE THE TEMPORARY SHUT OFF OF THE EXISTING WATER SUPPLY TO THIS FACILITY, WHEN NECESSARY, WITH THE OWNER PRIOR TO BEGINNING WORK. LOCATE AND IDENTIFY THE ACTIVE AND THE "TO BE DEMOLISHED" SUPPLY AND DWV PIPING, PRIOR TO STARTING ANY DEMOLITION WORK. WHERE PORTIONS OF THE EXISTING PIPING SYSTEMS ARE TO BE RETAINED AND REUSED, DEMOLISH PIPING AS INDICATED AND CAP ENDS OF INACTIVE DWV AND COLD / HOT WATER SUPPLY BRANCHES WITHIN 12" OF THE ACTIVE SYSTEM, TO AVOID A DEAD-END CONDITION.
7. DURING THE COURSE OF DEMOLITION WORK, THIS CONTRACTOR SHALL KEEP IN MIND THE SUBSEQUENT RECONNECTION OR EXTENSION OF THE PLUMBING SYSTEMS AND ITS COMPONENTS AS SHOWN IN THESE DOCUMENTS.
8. PRIOR TO ANY CORE DRILLING OR DESTRUCTIVE REMOVAL OF EXISTING FLOOR AREAS, PLUMBING CONTRACTOR SHALL ELECTRONICALLY SCAN FLOOR FOR POSSIBLE CONDUIT, PIPING OR ANCILLARY MATERIALS WHICH MAY BE ENCOUNTERED AND BRING POTENTIAL CONFLICTS TO THE ATTENTION OF THE COR WHERE IN CONFLICT WITH NEW PLUMBING INSTALLATIONS. REPAIR OF DAMAGED ITEMS DUE TO INADEQUATE IDENTIFICATION WILL BE THE RESPONSIBILITY OF THE RESPONSIBLE CONTRACTOR.
9. ALL SANITARY PIPING BELOW SLAB ON GRADE INDICATED TO BE REMOVED MAY BE ABANDONED IN PLACE IF THE PIPING DOES NOT CONFLICT WITH THE INSTALLATION OF NEW WORK BY THIS OR OTHER TRADES. WHERE PIPE IS ABANDONED IN PLACE, THE PIPING SHALL BE CAPPED AT OPEN ENDS.
10. IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO LEGALLY DISPOSE OF ALL PLUMBING RELATED EQUIPMENT, FIXTURES, PIPING, FITTINGS, HANGERS, DRAINS, APPURTENANCES AND DEBRIS, DEMOLISHED AS PART OF THIS SCOPE OF WORK.
11. CONTRACTOR IS REQUIRED TO PROVIDE ASBESTOS ABATEMENT FOR ALL DESIGNATED AREAS DISTURBED FOR THE RENOVATION PROJECT. REFER TO PROVIDED SPECIFICATION SECTION AND HAZMAT INSPECTION AND TESTING REPORT PROVIDED.

GENERAL PLUMBING NOTES:

1. WORK PLANS TO BE CONSIDERED AS DIAGRAMMATIC AND ALONG WITH THE SPECIFICATIONS, REFLECT A MINIMUM ACCEPTABLE STANDARD. ALL WORK SHALL CONFORM TO THE 2018 OHIO PLUMBING CODE AND THE AMERICANS WITH DISABILITIES ACT GUIDELINES.
2. THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL FEES AND PERMITS ASSOCIATED WITH THIS PORTION OF THE WORK.
3. EQUIPMENT, MATERIAL AND WORKMANSHIP TO BE WARRANTED FOR ONE YEAR MINIMUM FROM DATE OF FINAL ACCEPTANCE EXCEPT WHERE NOTED AS MORE STRINGENT IN PROJECT MANUAL.
4. THIS CONTRACTOR SHALL COORDINATE ALL ASPECTS OF WORK WITH OTHER TRADES PRIOR TO AND DURING CONSTRUCTION / INSTALLATION.
5. THIS CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZES OF EXISTING SUPPLY AND DWV SYSTEMS UTILITIES INCLUDING ANY AND ALL FIELD CONDITIONS APPLICABLE TO THIS TRADE, PRIOR TO STARTING WORK.
6. UNDERGROUND AND ABOVE GROUND PLUMBING SYSTEMS HAVE BEEN PLOTTED FROM LIMITED AREA SURVEY AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY, THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT KNOWN. THE INCLUDED INFORMATION REPRESENTS ONLY THE ASSUMPTIONS OF THE ENGINEER AS TO THE LOCATION OF SUCH SYSTEMS AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER, IN RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATIONS OF THESE SYSTEMS OR THE MANNER IN WHICH THEY ARE TO BE REMOVED, EXTENDED OR ADJUSTED. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION AND PROPER IDENTIFICATION OF SAID PLUMBING SYSTEMS AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING SYSTEMS OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH THE NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE COR SO THAT THE CONFLICT MAY BE RESOLVED. WHERE UTILITIES ARE INADVERTENTLY DISTURBED, THE REPAIR OF SAME UTILITY SHALL BE THE RESPONSIBILITY OF THE RESPONSIBLE CONTRACTOR. VERIFICATION OF THE LOCATIONS, INVERTS, AND DIRECTION OF FLOWS OF UNDERGROUND SYSTEMS AND UTILITIES, SHOWN OR NOT SHOWN, WILL BE THE OBLIGATION OF THE CONTRACTOR PRIOR TO AND DURING CONSTRUCTION / INSTALLATION.
7. WHEN A CONFLICT BETWEEN PLANS AND SPECIFICATIONS OR NOTES OCCURS, THE ENGINEER SHALL DECIDE WHICH GOVERNS. GENERALLY, THE MORE RESTRICTIVE, MORE SPECIFIC, OR STRICTER PROVISION SHALL GOVERN. IF ANY DISCREPANCIES ARE DISCOVERED ON THE PLANS OR BETWEEN THE PLANS AND THE SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OBTAIN CLARIFICATION OF THE INTENT FROM THE ENGINEER PRIOR TO CONSTRUCTION OR INSTALLATION OF THE PROPOSED IMPROVEMENTS.
8. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL FIXTURES, PIPING, SPECIALTIES AND APPURTENANCES AS INDICATED ON THE PLUMBING DRAWINGS. SCHEDULES AND IN THE SPECIFICATIONS.
9. WHERE EXISTING PLUMBING SYSTEMS ARE MODIFIED OR WHERE NEW PLUMBING SYSTEMS INTERFACE WITH EXISTING SYSTEMS, THIS CONTRACTOR SHALL CLEAN AND FLUSH THE EXISTING PIPING SYSTEM. CONTRACTOR SHALL ENSURE THAT DRAINAGE LINES ALLOW PROPER FLOWS AND LINE CARRY. BRING ANY UNRESOLVED ADVERSE CONDITIONS TO THE ATTENTION OF THE ON COR.
10. NOT ALL HANGER TYPES, LABEL DESIGNATIONS, OR LEGEND REFERENCES WILL NECESSARILY BE USED FOR THIS PROJECT. STANDARD INDUSTRY PRACTICE, SPECIFICATIONS, AND PLANS INDICATE THE MAGNITUDE OF APPLICATION.
11. SEE ARCHITECTURAL DRAWINGS FOR FIXTURE HEIGHTS AND ACCESSIBILITY REQUIREMENTS.

PIPING NOTES:

1. ALL UNDERGROUND SANITARY PIPING ROUTED NEAR COLUMN FOOTINGS SHALL BE LOCATED OUTSIDE OF THE ZONE OF INFLUENCE.
2. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY PIPE SLEEVES TO THE GENERAL CONTRACTOR & COORDINATING ALL PIPE SLEEVE LOCATIONS (ABOVE AND BELOW GRADE).
3. WASTE AND VENT PIPING SHALL BE STANDARD, CODE APPROVED, DWV PATTERN FITTINGS WITH THE MINIMIUM SIZE DRAINAGE PIPING BELOW FLOOR BEING 2". DIRECTIONAL CHANGES IN DRAINAGE PIPING SYSTEM SHALL NOT INCLUDE THE USE OF QUARTER BENDS OR SHORT SWEEP QUARTER BENDS AND UNLESS ACCOMPANIED BY AN APPROPRIATE CLEANOUT SHALL NOT EXCEED A 45 DEGREE BEND. SLOPE OF HORIZONTAL SANITARY SEWER PIPE SHALL BE AS NOTED: 2-1/2" OR LESS = 1/4" PER FOOT AND FOR 3" AND GREATER = 1/8" PER FOOT. FOR SIZES SEE PLANS, DETAILS, AND ISOMETRICS.
4. THIS CONTRACTOR SHALL SCHEDULE ALL WORK OF THIS TRADE TO AVOID INTERFERENCE WITH FIRE PROOFING WORK.
5. THIS CONTRACTOR SHALL INSTALL PIPING FREE OF SAGS AND BENDS. OVERHEAD PIPING SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO COLUMN LINES. CONTRACTOR SHALL PROVIDE HANGERS, CLAMPS, OFFSETS, EXPANSION LOOPS/JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
6. INTERIOR WATER SUPPLY PIPING TO BE TYPE "L" COPPER WITH LEAD-FREE SOLDER JOINTS. UNDERGROUND WATER PIPING TO BE TYPE "K" COPPER WITHOUT JOINTS.
7. INSTALLED PLUMBING PIPE, FITTINGS, VALVES, TRIM AND ETC, IN CONTACT WITH POTABLE WATER, SHALL BE MADE OF LEAD FREE MATERIALS IN COMPLIANCE WITH NSF/ANSI 61, SECTION 8 AND NSF/ANSI 372, IN CONFORMANCE WITH PUBLIC LAW 111-380 (S3874) ALSO KNOWN AS THE "REDUCTION IN LEAD IN DRINKING WATER ACT" EFFECTIVE JANUARY 4, 2014.
8. ALL PIPING, VALVES AND APPURTENANCES SHALL BE INSTALLED SUCH AS NOT TO OBSTRUCT ANY PORTION OF WINDOWS, DOORWAYS, STAIRS, PASSAGEWAYS, OR ACCESS TO VARIOUS MECHANICAL EQUIPMENT (INCLUDING BUT NOT LIMITED TO: VAV BOXES, CONTROLS, FANS, DAMPERS, FILTERS, AND ANY OTHER MAINTENANCE ACCESS POINTS) OR LIGHTING, ETC.
9. PIPING SHALL NOT BE ROUTED ABOVE ELECTRICAL PANELS NOR WITHIN 36" OF THE FRONT OF THE PANELS. COORDINATE INSTALLATION WITH ELECTRICAL TRADE.
10. DWV AND SUPPLY PIPING ROUTED THROUGH FINISHED AREAS SHALL BE CONCEALED ABOVE CEILING OR IN FURRED-OUT WALL. DWV AND SUPPLY PIPING SHALL NOT BE EXPOSED IN FINISHED AREAS UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS.
11. ACCESSIBLE SHUTOFF VALVES TO BE PROVIDED ON ALL BRANCH PIPING, AT EACH TOILET ROOM AND EACH FIXTURE. PLUMBING CONTRACTOR TO PROVIDE 8"x8" (MINIMUM) ACCESS PANELS FOR SHUTOFF VALVES WHERE REQUIRED, COORDINATE TYPE AND FINISH WITH DIVISION 8 REQUIREMENTS.
12. ALL ABOVE CEILING ISOLATION / SHUT-OFF VALVES SHALL BE INSTALLED SUCH THAT THEY MAY BE EASILY SEEN & REACHED FROM FLOOR OR STEP LADDER.
13. FIXTURES AND ROUGHED IN FIXTURES SHALL BE COMPLETE WITH SUPPLY PIPES WITH STOPS. SUPPLIES AND STOPS TO BE CHROME PLATE ESCUTCHEONS. WHERE EXPOSED TO VIEW ESCUTCHEONS SHALL BE SET SCREW TYPE.
14. PROVIDE TYPE "A" WATER HAMMER ARRESTORS AT COLD WATER CONNECTIONS TO ELECTRIC WATER COOLERS AND LOCATIONS AND WHERE THE USE OF QUICK CLOSING VALVES ARE INVOLVED. PROVIDE WATER HAMMER ARRESTORS FOR EACH RESTROOM FIXTURE GROUP PER THE RECOMMENDED METHODS OUTLINED BY THE PDI INSTITUTE AND APPLICABLE MANUFACTURERS.
15. THIS CONTRACTOR SHALL PROVIDE ALL DRAINAGE LINES FROM EQUIPMENT TO FLOOR DRAINS, FLOOR SINKS AND/OR HUB DRAINS. INSTALL DRAINAGE LINES WITH AN AIR GAP, A MINIMUM OF 2 TIMES THE DRAINAGE PIPE DIAMETER.
16. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL ROUGH-INS, FITTINGS AND TRIM FOR PLUMBING FIXTURES PROVIDED BY THE OWNER OR GENERAL CONTRACTOR SEE ARCHITECTURAL DRAWINGS & SPECIFICATIONS FOR ADDITIONAL INFORMATION.
17. DRY VENTS SHALL RISE VERTICALLY TO A POINT NOT LESS THAN 6" ABOVE THE FLOOD RIM LEVEL OF THE TRAP BEING VENTED.
18. PROVIDE ALL NECESSARY PIPE FITTINGS AND OFFSETS, ETC. AS REQUIRED PER THE OHIO PLUMBING CODE, CHAPTER 9, FOR VENTING OF FIXTURES, WHETHER OR NOT SPECIFICALLY INDICATED ON DRAWINGS OR ISOMETRICS, FOR A COMPLETE AND COMPLIANT INSTALLATION.
19. PRIOR TO BEGINNING WORK THIS CONTRACTOR SHALL SNAKE THE EXISTING SANITARY PIPING BELOW SLAB TO VERIFY THE CONDITION IS IN WORKING ORDER. ANY PIPING DISCOVERED TO BE DAMAGED SHALL BE INCLUDED IN THIS SCOPE TO BE REPLACED WITH NEW.

EQUIPMENT NOTES:

1. PROVIDE WATER HAMMER ARRESTORS WHERE WATER SUPPLY IS CONNECTED TO EQUIPMENT WHICH UTILIZE A SOLONOID VALVE IN IT'S OPERATION AND LOCATIONS WHERE THE USE OF QUICK CLOSING VALVES ARE INVOLVED, PER THE RECOMMENDED METHODS OUTLINED BY THE PDI INSTITUTE AND APPLICABLE MANUFACTURERS.

FINISH NOTES:

1. WHERE PIPE INSULATION HAS BEEN REMOVED OR DAMAGED IN THE COURSE OF THIS PROJECT, THIS CONTRACTOR SHALL REPLACE WITH LIKE KIND; INCLUDING ANY AND ALL TAPE, WIRES, BANDS AND APPURTENANCES.
2. THIS CONTRACTOR SHALL PROVIDE ALL FIRESTOPPING AND / OR ACOUSTICAL SEALANTS FOR PLUMBING PIPE PENETRATIONS THAT PENETRATE ACOUSTICAL RATED AND SMOKE AND FIRE RATED ASSEMBLIES. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL RATED ASSEMBLIES. ALL RATED PENETRATIONS SHALL BE ACOUSTICALLY SEALED AND / OR FIRESTOPPED TO ORIGINAL ASSEMBLY RATING. ALL NON-RATED FLOOR PENETRATIONS SHALL BE SEALED WATER TIGHT WITH A FLEXIBLE SEALANT.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING AND SLEEVES REQUIRED FOR HIS TRADE. FLOORS, WALLS AND SURFACES SHALL BE RETURNED TO ORIGINAL CONDITION WHERE PENETRATED OR DAMAGED. FINAL FINISHES SHALL BE THE RESPONSIBILITY OF GENERAL CONTRACTOR.
4. PROVIDE CEILING TILE MARKERS INDICATING THE LOCATION OF ABOVE CEILING PLUMBING VALVES.

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PRELIMINARY
NOT FOR CONSTRUCTION

ISSUANCE SCHEDULE

NUMBER	DESCRIPTION	DATE

GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT

INTERIOR TERMINAL I19 RENOVATION

140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO:	10012540
DATE ISSUED:	02/17/23
DESIGNED BY:	S. SAVAGE
DRAWN BY:	S. SAVAGE
CHECKED BY:	V. AMADOR

SHEET NAME:
PLUMBING LEGENDS

SHEET NO:
P-001

PLUMBING SPECIFICATIONS

PLUMBING REQUIREMENTS

PART 1 - GENERAL

1.1 SECTION INCLUDES
A. PLUMBING WORK.

1.2 SCOPE
A. WORK INCLUDED CONSISTS OF PROVIDING ALL LABOR, TOOLS, SUPERINTENDENCE, TESTS AND INSPECTIONS REQUIRED FOR THE INSTALLATION OF ALL FIXTURES, EQUIPMENT AND SYSTEMS AS SPECIFIED HEREIN, AS SHOWN ON THE CONTRACT DRAWINGS, AND AS DESCRIBED IN THE SUPPLEMENTS TO THE BID FORM.
B. ANY APPARATUS, APPLIANCE, MATERIAL OR WORK NOT SHOWN ON DRAWINGS BUT MENTIONED IN THE SPECIFICATIONS, OR VICE VERSA, OR ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND PERFECT IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SPECIFIED OR INDICATED, SHALL BE FURNISHED, DELIVERED AND / OR INSTALLED BY THE CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
C. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND OPERATION, SHALL BE INCLUDED IN THE WORK AND IN THE CONTRACTOR'S BID, THE SAME AS IF HEREIN SPECIFIED OR SHOWN ON THE DRAWINGS.
D. WORK INDICATED ON DRAWINGS BUT NOT MENTIONED IN SPECIFICATIONS, OR VISE VERSA, SHALL BE PERFORMED THE SAME AS IF SPECIFICALLY MENTIONED OR INDICATED IN BOTH LOCATIONS. ALL SUPPLEMENTARY LABOR OR MATERIALS REQUIRED FOR A COMPLETE, APPROVED, AND PROPERLY OPERATING INSTALLATIONS SHALL BE FURNISHED WHETHER OR NOT INDICATED AND SPECIFIED, AND WITHOUT ADDITIONAL COST TO OWNER.

1.3 QUALITY ASSURANCE
A. APPLICABLE CODES AND STANDARDS:
1. ALL WORK UNDER THIS SECTION SHALL COMPLY WITH THE FOLLOWING RECOGNIZED CODES AND STANDARDS:
A) STATE AND LOCAL BUILDING CODES AND PLUMBING CODES.
B) STATE DEPARTMENT OF HEALTH REQUIREMENTS.
C) AMERICAN SOCIETY OF TESTING MATERIALS "ASTM".
D) AMERICAN NATIONAL STANDARDS INSTITUTE "ANSI".
E) AMERICANS WITH DISABILITIES ACT (ADA).
2. REFERENCE TO CODES, STANDARDS, SPECIFICATIONS AND VARIOUS ASSOCIATIONS, SOCIETIES, REGULATORY AGENCIES, AND MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS AND DIRECTIONS ARE TO BE THE LATEST PUBLISHED EDITIONS AND AMENDMENTS THEREOF.
3. SUPERVISION: PERFORM THE WORK UNDER THE CONTINUOUS SUPERVISION OF A COMPETENT SUPERINTENDENT AND / OR FOREMAN CAPABLE OF UNDERSTANDING THE CONTRACT DOCUMENT AND IMPLEMENTING THEIR REQUIREMENTS. DO NOT CHANGE SUPERVISOR WITHOUT ACCEPTANCE OF SUBSTITUTION BY ARCHITECT.
4. WORKSMANSHIP: EMPLOY WORKMEN SKILLED IN THE VARIOUS TYPES OF WORK BEING PERFORMED.
5. PERFORM WORK AS SPECIFIED.
6. REPLACE WORK NOT CONFORMING TO REVIEWED / ACCEPTED SHOP DRAWINGS / PRODUCT DATA.
7. REPLACE WORK NOT CONFORMING TO CONTRACT REQUIREMENTS.

1.4 DEFINITIONS
A. "PIPING" INCLUDES IN ADDITION TO PIPE, ALL FITTINGS, VALVES, HANGERS AND OTHER ACCESSORIES RELATING TO SUCH PIPING.
B. "CONCEALED" MEANS HIDDEN FROM SIGHT IN TRENCHES, CHASES, FURRED SPACES, SHAFTS, HUNG CEILINGS, EMBEDDED IN CONSTRUCTION OR IN CRAWL SPACES.
D. "EXPOSED" MEANS NOT INSTALLED UNDERGROUND, UNDER SLAB ON GRAD OR "CONCEALED" AS DEFINED ABOVE.

1.5 SUBMITTALS
A. PRODUCT DATA:
1. FIXTURES, PIPING, VALVES, FLOOR DRAINS, ETC.:

1.6 DRAWINGS
A. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE SCOPE OF THE WORK AND INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, PIPING AND FIXTURES.
B. IF DIRECTED BY THE ARCHITECT / ENGINEER, THE CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK.
C. UNDER NO CIRCUMSTANCES SHALL ANY SIZES BE DECREASED OR INCREASED, AS APPLICABLE, OR RADICAL CHANGES IN ANY PART OF THE INSTALLATION BE MADE, WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT / ENGINEER.

1.7 MATERIALS AND MANUFACTURERS
A. THE MATERIALS USED ON THIS PROJECT SHALL BE AS SPECIFIED AND SHALL PERFORM THE REQUIRED FUNCTIONS.
B. THE PHYSICAL SIZE, ARRANGEMENT AND CAPACITIES OF EQUIPMENT SHOWN ON THE DRAWINGS CORRESPONDS TO THE PARTICULAR MANUFACTURER NAMED ON THE DRAWINGS. IF THIS CONTRACTOR ELECTS TO USE EQUIPMENT BY ANOTHER MANUFACTURER WHICH IS ACCEPTABLE TO THE ARCHITECT / ENGINEER, IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO ADJUST HIS WORK AND TO COMPENSATE THE OTHER CONTRACTORS FOR ADDITIONAL WORK THAT MAY BE REQUIRED BY THEM TO ACCOMMODATE OR SERVE THIS CONTRACTOR'S EQUIPMENT.

1.8 COORDINATION OF TRADES
A. EACH CONTRACTOR SHALL GIVE FULL COOPERATION TO OTHER TRADES AND SHALL FURNISH ANY INFORMATION NECESSARY TO PERMIT THE WORK OF ALL TRADES TO BE INSTALLED SATISFACTORILY, INCLUDING SERVICE CLEARANCES, AND WITH THE LEAST POSSIBLE INTERFERENCE OR DELAY.
B. CLAIMS FOR EXTRA COST TO COVER ADDITIONAL COORDINATION WORK PERFORMED BY THE CONTRACTOR WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT / ENGINEER WILL NOT BE APPROVED.

1.9 ACCESSIBILITY
A. ALL WORK SHALL BE INSTALLED SO THAT ALL REQUIRED PARTS ARE READILY ACCESSIBLE FOR INSPECTION, OPERATION MAINTENANCE AND REPAIR. SUCH ACCESS SHALL BE PROVIDED BY THIS CONTRACTOR, TO THE SATISFACTION OF THE ARCHITECT / ENGINEER, WHERE SAME IS NOT PART OF THE BIDDING DOCUMENTS, IN ANY PHASE OF THE WORK.

1.10 JOB CONDITIONS
A. VERIFY FIELD CONDITIONS: THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS. HE SHALL EXAMINE THE DRAWINGS AND SPECIFICATIONS FOR OTHER DISCIPLINES / BRANCHES OF THE WORK AND SHALL REFER TO THEM FOR THE PROPER COORDINATION OF THIS WORK.
B. PROTECTION OF WORK:
1. EQUIPMENT SHALL BE PROTECTED DURING HANDLING AND DELIVERY FROM BEING DROPPED, BUMPED OR OTHER DAMAGE.

1.11 WARRANTY
A. THE CONTRACTOR WARRANTIES BY HIS ACCEPTANCE OF THE CONTRACT THAT ALL WORK INSTALLED WILL BE FREE FROM ANY AND ALL DEFECTES IN WORKMANSHIP AND / OR MATERIAL, THAT ALL APPARATUS WILL DEVELOP CAPACITIES AND CHARACTERISTICS SPECIFIED, AND THAT IF, DURING A PERIOD OF ONE YEAR, OR AS OTHERWISE SPECIFIED, FROM DATE OF CERTIFICATE OF COMPLETION AND ACCEPTANCE OF WORK, OR OTHER DATE AS MAY BE MUTUALLY AGREED UPON BY THE OWNER AND CONTRACTOR, ANY SUCH DEFECTS IN WORKMANSHIP, MATERIAL OR PERFORMANCE APPEAR, HE SHALL, WITHOUT COST TO THE OWNER, REMEDY SUCH DEFECTS WITHIN A REASONABLE TIME TO BE SPECIFIED IN NOTICE FROM THE ARCHITECT / ENGINEER. IN DEFAULT THEREOF, THE OWNER MAY HAVE SUCH WORK DONE AND CHARGE THE COST TO THE CONTRACTOR.
B. THE CONTRACTOR WILL NOT BE RESPONSIBLE UNDER THE WARRANTY FOR THE NORMAL MAINTENANCE OBLIGATION OF THE OWNER.

1.12 RECORD DOCUMENTS
A. PROVIDE AS REQUIRED BY GENERAL CONDITIONS.
B. PROVIDE MAINTAIN SHOP DRAWINGS FOR WORK OF THIS SECTION.
C. PROVIDE RECORD DRAWINGS WITH INFORMATION THAT HAS BEEN KEPT UP TO DATE AS THE PROJECT PROGRESSES.

PART 2 - PRODUCTS
NOT USED

PART 3 - EXECUTION

3.1 SERVICE ACCESS
A. ALL EQUIPMENT SHALL BE INSTALLED SUCH THAT SERVICE CAN BE EASILY PERFORMED. ADJUSTABLE PARTS SHALL BE WITHIN EASY REACH.

3.2 PIPE LAYOUT
A. THIS CONTRACTOR SHALL LAY OUT THE WORK REQUIRED BY THIS SPECIFICATION AND SHALL BE RESPONSIBLE FOR FURNISHING AND PLACING ALL SLEEVES AND INSERTS, LOCATING ALL OPENINGS REQUIRED FOR INSTALLATION OF THIS WORK, AND SETTING ALL LINES AND LEVELS AND INSTALLATION OF PIPE AT PROPER PITCH, WITH ADEQUATE SUPPORT FOR ALL PIPE AND EQUIPMENT.
3.3 PIPE EXPANSION WORK
A. ALL PIPE CONNECTIONS SHALL BE INSTALLED TO ALLOW FOR FREEDOM OF MOVEMENT OF THE PIPING DURING EXPANSION AND CONTRACTION WITHOUT SPRINGING OF PIPING OR DISTORTION OF FITTINGS.

3.4 ACCESS DOORS
A. WHEREVER MECHANISM REQUIRING ACCESS FOR OPERATION AND / OR MAINTENANCE ARE CONCEALED IN THE STRUCTURE, AND WHEREVER ELSE INDICATED ON THE PLUMBING DRAWINGS, THIS CONTRACTOR SHALL SUPPLY ACCESS DOORS OF SIZES NECESSARY TO PROVIDE READY ACCESS TO THE CONCEALED ITEM (MINIMUM SIZE 12" x 12").

3.5 FIRESTOPPING
A. PROVIDE FIRESTOPPING AT RATED CONSTRUCTION IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.

3.6 FIXTURES
A. PROVIDE PLUMBING FIXTURES COMPLETE WITH SUPPORTS, CARRIERS, AND SUPPLY AND WASTE TRIM. SUPPLIES TO EACH FIXTURE SHALL BE INDIVIDUALLY VALVED. ALL WASTE AND SUPPLY TRIM SHALL BE CHROME PLATED BRASS. FIXTURES SHALL BE WHITE UNLESS OTHERWISE SPECIFIED. SEAL JOINTS AROUND EACH FIXTURE AT THE WALL, FLOOR, AND ANY ADJACENT CONSTRUCTION. JOINT SEALANT SHALL BE ONE PART,MILDEW RESISTANT SILICONE, ASTM C920, TYPE S, GRADE NS, CLASS 25.

B. ALL FIXTURES SHALL BE SECURELY ATTACHED TO SUPPORTING SURFACES AS SPECIFIED AND INSTALLED PLUMB AND LEVEL. GROUT BEHIND ALL WALL HUNG PLUMBING FIXTURES WITH WHITE, DURABLE PLASTIC MATERIAL, ELIMINATING ALL CRACKS AND VOIDS.

C. SEPARATELY VALVE EVERY SUPPLY TO EVERY FIXTURE AND PIECE OF EQUIPMENT REQUIRING VARIOUS SERVICES WITH LOOSE KEY STOPS. IN GENERAL, THESE VALVES ARE SPECIFIED WITH FIXTURE, BUT WHERE NOT CALLED FOR IN FIXTURE SPECIFICATIONS, PROVIDE SUITABLE STOPS IN ADDITION TO FAUCETS.

D. ALL CONNECTIONS TO FIXTURES SHALL BE MADE WITH DROP ELBOWS SECURED TO BUILDING STRUCTURE AND OUTLETS OF ELBOWS SHALL BE SCREWED. CONNECTIONS FROM ELBOW TO FIXTURE SUPPLY PIPE SHALL BE MADE WITH 85% BRASS CHROME PLATED NIPPLE.

3.7 RESPONSIBILITY
A. THE CONTRACTOR'S RESPONSIBILITY SHALL NOT END WITH THE INSTALLATION OF AND THE CONNECTING OF THE VARIOUS ITEMS OF EQUIPMENT, PIPING, ETC. HE SHALL PROVIDE MECHANICS TO PROPERLY ADJUST ALL SYSTEMS, MAKE REQUIRED TESTS, AND SHALL KEEP WORKMEN IN THE BUILDING UNTIL THE ENTIRE PLUMBING SYSTEM INSTALLATION PROPERLY FUNCTIONS IN EVERY DETAIL.

B. IF THE CONTRACTOR INSTALLS HIS WORK BEFORE COORDINATING WITH OTHER TRADES, OR SO AS TO CAUSE INTERFERENCE WITH WORK OF OTHER TRADES, HE SHALL AT HIS EXPENSE MAKE NECESSARY CHANGES IN HIS WORK TO CORRECT THE CONDITION.

VALVES

PART 1 - GENERAL

1.1 WORK INCLUDED
A. VALVES

PART 2 - PRODUCTS

2.1 BALL VALVES
A. 150 PSI, FORGED BRASS TWO-PIECE BODY, HARD CHROME PLATED FULL PORT FORGED BRASS BALL, ADJUSTABLE PACKING NUT, BLOW-OUT PROOF STEM AND "TEFLON" OR TFE SEATS AND SEALS. COMPLY WITH MSS SP-110.
B. VALVES USED IN INSULATED PIPING SYSTEMS SHALL HAVE A 2" STEM EXTENSION.

PART 3 - EXECUTION

3.1 INSTALLATION
A. PROVIDE CLEARANCE FOR INSTALLATION OF INSULATION AND ACCESS TO VALVES AND FITTINGS.
B. PROVIDE ACCESS WHERE VALVES AND FITTINGS ARE NOT EXPOSED. COORDINATE SIZE AND LOCATION OF ACCESS DOORS.
C. INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED.
D. VALVES USED IN INSULATED PIPING SYSTEMS SHALL HAVE A 2" STEM EXTENSION.

3.2 APPLICATION
A. INSTALL UNIONS DOWNSTREAM OF THREADED VALVES AND AT THREADED EQUIPMENT OR APPARATUS CONNECTIONS.
B. INSTALL BRASS MALE ADAPTERS EACH SIDE OF VALVES IN COPPER PIPED SYSTEM. SWEAT SOLDER ADAPTERS TO PIPE.
C. INSTALL BALL VALVES FOR SHUT-OFF DUTY AND TO ISOLATE EQUIPMENT, PART OF SYSTEMS, OR VERTICAL RISERS IN ALL PIPING 2" AND SMALLER.
D. INSTALL INSULATING (DIELECTRIC) UNIONS WHENEVER TWO DISSIMILAR METALS ARE BEING JOINED.

HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT

PART 1 - GENERAL

1.1 WORK INCLUDED
A. PIPE AND EQUIPMENT HANGERS, SUPPORTS, AND ASSOCIATED ANCHORS.
B. SLEEVES AND SEALS.

PART 2 - PRODUCTS

2.1 PIPE HANGARS AND SUPPORTS
A. HANGERS FOR PIPE SIZES 1/2 TO 1-1/2 INCH: CARBON STEEL, ADJUSTABLE SWIVEL, SPLIT RING.
B. HANGERS FOR PIPE SIZES 2 TO 4 INCHES: CARBON STEEL, ADJUSTABLE, CLEVIS.
C. SHIELD FOR INSULATED PIPING 2 INCHES AND SMALLER: 18 GAGE GALVANIZED STEEL SHIELD OVER INSULATION IN 180 DEGREE SEGMENTS, MINIMUM 12 INCHES LONG AT PIPE SUPPORT.
D. SEE PIPE HANGER DETAILS FOR ADDITIONAL INFORMATION.

2.2 HANGER RODS
A. STEEL HANGER RODS: THREADED BOTH ENDS, THREADED ONE END, OR CONTINUOUS THREADED.

2.3 FABRICATION
A. SIZE SLEEVES LARGE ENOUGH TO ALLOW FOR MOVEMENT DUE TO EXPANSION AND CONTRACTION. PROVIDE FOR CONTINUOUS INSULATION WRAPPING.
B. DESIGN HANGERS WITHOUT DISENGAGEMENT OF SUPPORTED PIPE.
C. PROVIDE COPPER PLATED HANGERS AND SUPPORTS FOR COPPER PIPING.
D. HANGER AND SUPPORT MATERIALS SHALL BE NEW AND MANUFACTURED FOR THE SPECIFIC PURPOSE OF SUPPORTING SYSTEMS, EQUIPMENT, PIPE AND ACCESSORIES.

PART 3 - EXECUTION

3.1 HANGER AND SUPPORT INSTALLATION
A. PIPE HANGERS SHALL BE SIZED TO ALLOW FOR INSULATION TO BE APPLIED CONTINUOUSLY WITH NO BREAKS IN THE INSULATION.
B. HANGERS FOR UNCOVERED / UNINSULATED PIPING SHALL INCLUDE FACTORY APPLIED PLACTIC COATINGS OR INSERTS OR SHALL BE OF SAME MATERIAL AS PIPE.
C. METAL PIPE-HANGER INSTALLATION: COMPLY WITH MSS SP-69 AND MSS SP-89. INSTALL HANGERS, SUPPORTS, CLAMPS, AND ATTACHMENTS AS REQUIRED TO PROPERLY SUPPORT PIPING FROM THE BUILDING STRUCTURE.

3.2 HANGER AND SUPPORT SCHEDULE
A. SUPPORT HORIZONTAL PIPING AS FOLLOWS:
B. INSTALL HANGERS TO PROVIDE MINIMUM 1/2 INCH SPACE BETWEEN FINISHED COVERING AND ADJACENT WORK.
C. PLACE A HANGER WITHIN 12 INCHES OF EACH HORIZONTAL ELBOW.

PIPE SIZE DIAMETER	MAX. HANGER SPACING	HANGER ROD
COPPER		
1/2 TO 3/4 INCH	5'-0"	3/8"
1 TO 1-1/2 INCH	7'-0"	3/8"
2 TO 2-1/2 INCH	8'-0"	1/2"
PVC		
3/4" AND SMALLER	2'-6"	3/8"
1 TO 2 INCH	4'-0"	3/8"
2-1/2 TO 3 INCH	4'-0"	1/2"
4 INCH	4'-0"	5/8"

D. USE HANGERS WITH 1-1/2 INCH MINIMUM VERTICAL ADJUSTMENT.
E. WHERE SEVERAL PIPES CAN BE INSTALLED IN PARALLEL AND AT SAME ELEVATION, PROVIDE MULTIPLE OR TRAPEZE HANGERS.
F. MAXIMUM VERTICAL SPACING BETWEEN SUPPORTS SHALL BE 8'-0" FOR COPPER PIPING AND 4'-0" PVC PIPING.

IDENTIFICATION FOR PLUMBING PIPING

PART 1 - GENERAL

1.1 SECTION INCLUDES
A. IDENTIFICATION OF PLUMBING PRODUCTS INSTALLED BY PLUMBING CONTRACTOR.

PART 2 - PRODUCTS

2.1 MATERIALS
A. COLOR: UNLESS SPECIFIED OTHERWISE, CONFORM WITH ANSI/ASME A13.1.
B. PLASTIC PIPE MARKERS: FACTORY FABRICATED, FLEXIBLE, SEMI-RIGID PLASTIC, PERFORMED TO FIT AROUND PIPE OR PIPE COVERING; MINIMUM INFORMATION INDICATING FLOW DIRECTION ARROW AND FLUID BEING CONVEYED.
C. PLASTIC TAPE PIPE MARKERS: FLEXIBLE, VINYL FILM TAPE WITH PRESSURE SENSITIVE ADHESIVE BACKING AND PRINTED MARKINGS.
D. PIPE LABELS
1. MANUFACTURERS STANDARD LEGENDS AND COLORS SHOULD BE USED WHENEVER POSSIBLE. PIPE MARKER COLOR FIELD AND LEGEND HEIGHT SHALL COMPLY WITH ASME/ANSE A 13.1 SPECIFICATIONS.
2. PRETENSIONED PIPE LABELS: PRECOILED, SEMI-RIGID PLASTIC FORMED TO PARTIALLY COVER CIRCUMFERENCE OF PIPE AND TO ATTACH TO PIPE WITHOUT FASTENERS OR ADHESIVE.
3. SELF-ADHESIVE PIPE LABELS: PRINTED PLASTIC WITH CONTACT-TYPE, PERMANENT ADHESIVE BACKING.
4. PIPE LABEL CONTENTS: INCLUDE IDENTIFICATION OF PIPING SERVICE USING SAME DESIGNATIONS OR ABBREVIATIONS AS USED ON DRAWINGS, PIPE SIZE, AND AN ARROW INDICATING FLOW DIRECTION.
5. FLOW-DIRECTION ARROWS: INTEGRAL WITH PIPING SYSTEM SERVICE LETTERING TO ACCOMMODATE BOTH DIRECTIONS, OR AS SEPARATE UNIT ON EACH PIPE LABEL TO INDICATE FLOW DIRECTION.

PART 3 - EXECUTION

3.1 PREPARATION
A. DEGREASE AND CLEAN SURFACES TO RECEIVE ADHESIVE FOR IDENTIFICATION MATERIALS.

3.2 INSTALLATION
A. PLASTIC PIPE MARKERS: INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. PLASTIC TAPE PIPE MARKERS: INSTALL COMPLETE AROUND PIPE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
C. PIPING: IDENTIFY PIPING, CONCEALED OR EXPOSED, WITH PLASTIC TAPE PIPE MARKERS. IDENTIFY SERVICE, FLOW DIRECTION. INSTALL IN CLEAR VIEW AND ALIGN WITH AXIS OF PIPING. LOCATE IDENTIFICATION EVERY 15 - 30 FEET ON STRAIGHT RUNS INCLUDING RISERS AND DROPS, ADJACENT TO EACH VALVE AND "T", AT EACH SIDE OF PENETRATION OF STRUCTURE OR ENCLOSURE, AND AT EACH OBSTRUCTION.

PLUMBING PIPING INSULATION

PART 1 - GENERAL

1.1 SECTION INCLUDES
A. SECTION INCLUDES INSULATING THE FOLLOWING PLUMBING PIPING SERVICES:
A) DOMESTIC COLD-WATER PIPING.
B) DOMESTIC HOT-WATER PIPING.

1.2 QUALITY ASSURANCE
A. APPLICATOR: COMPANY SPECIALIZING IN PIPING INSULATION APPLICATION WITH THREE YEARS MINIMUM EXPERIENCE.
B. MATERIALS: FLAME SPREAD / FUEL CONTRIBUTED / SMOKE DEVELOPED RATING OF 25/50 IN ACCORDANCE WITH ASTM E84.

PART 2 - PRODUCTS

2.1 INSULATION
A. ELASTOMERIC INSULATION SHALL BE MINIMUM 5.5 LB/FT3 DENSITY; THERMAL CONDUCTIVITY OF 0.27 AT 75°F TEMPERATURE DIFFERENTIAL; MAXIMUM 5.6% SHRINKAGE AT 200°F FOR 7 DAYS; MINIMUM 0.2 PERM-IN WATER VAPOR PERMEABILITY, MAXIMUM 4.8% BY WEIGHT WATER ABSORPTION; SELF-EXTINGUISHING; CLOSED-CELL CONSTRUCTION; FLAME SPREAD OF 25 BY ASTM E84 TEST METHOD; SMOKE DEVELOP RATING OF 50 BY ASTM E84 TEST METHOD. INSULATION SHALL BE FURNISHED IN FACTORY MOLDED PIPE INSULATION SECTIONS.
B. FIRE BARRIER PLENUM WRAP: ASTM E 84 & ASTM E 136 LIGHTWEIGHT, NON-ASBESTOS, HIGH TEMPERATURE, BIO-SOLUBLE, CALCIUM-MAGNESIUM-SILICATE (CMS) NON WOVEN BLANKET, ENCAPSULATED IN A SCRIM-REINFORCED FOIL, BLANKET THICKNESS OF 0.5 INCHES (13 MM) FOR PROTECTION OF ITEMS WITHIN A PLENUM AREA.

2.2 ACCESSORIES
A. FINISHING CEMENT: ASTM C449.
B. ADHESIVES AND TAPES: COMPATIBLE WITH INSULATION.
C. FITTINGS:
1. FITTINGS IN PIPING COVERED WITH PIPE INSULATION SHALL BE INSULATED WITH MITERED SECTIONS OF THE SAME MATERIAL. REMOVABLE PORTIONS OF VALVES, STRAINERS, ETC., SHALL BE INSULATED IN A MANNER TO ALLOW THE REMOVABLE PARTS TO BE REMOVED FOR SERVICING WITHOUT DISTURBING THE INSULATED BODY.

PART 3 - EXECUTION

3.1 PREPARATION
A. INSTALL MATERIALS AFTER PIPING HAS BEEN TESTED AND APPROVED.

3.2 INSTALLATION
A. INSTALL MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. VAPOR BARRIER INSULATION TO BE CONTINUED WITHOUT INTERRUPTION. CONTINUE INSULATION WITH VAPOR BARRIER THROUGH PENETRATIONS.
C. IN EXPOSED PIPING, LOCATE INSULATION AND COVER SEAMS IN LEAST VISIBLE LOCATIONS.
D. ON INSULATED PIPING INSULATE FITTINGS, VALVES, UNIONS, FLANGES, STRAINERS, FLEXIBLE CONNECTIONS, AND EXPANSION JOINTS.
E. NEATLY FINISH INSULATION AT SUPPORTS, PROTRUSIONS, AND INTERRUPTIONS.
F. CONDENSATE DRAINS FOR AIR CONDITIONING UNITS SHALL BE INSULATED INSIDE OF BUILDING.
G. INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED AND MAKE WEATHERPROOF BY COVERING WITH ALUMINUM JACKET. ARRANGE SEAMS TO PREVENT TRAPPING OF MOISTURE.

3.3 INSTALLATION TYPES
A. CONCEALED PIPING (IN WALLS AND ABOVE CEILING): USE ELASTOMERIC.
B. EXPOSED PIPING (EQUIPMENT ROOMS, MAINTENANCE ROOMS, PIPE CHASES, AND SERVICE AREAS): USE ELASTOMERIC.

3.4 INSULATION SCHEDULE
A. PLUMBING PIPE UP TO 140 DEG. F WATER TEMPERATURE:
PIPE SIZE THRU 1-1/4": 1" THICK.
PIPE SIZE 1-1/2 TO 2": 1" THICK
B. PLASTIC PIPING IN CEILING PLENUM SPACE: 3-M PLENUM WRAP INSULATION.
C. BRANCHES AND NON-RECIRCULATED MAINS: 1" THICK

SANITARY WASTE AND VENT PIPING

PART 1 - GENERAL

1.1 WORK INCLUDES
A. SANITARY WASTE
B. VENT PIPING

1.2 STANDARDS
A. CAST IRON PIPE: ASTM A-74, CISPI 301
B. PLASTIC: SOLID WALL, SCHEDULE 40 PVC-DWV PATTERN - ASTM D-2665-82.

PART 2 - PRODUCTS

2.1 PIPE AND FITTINGS
A. PIPING BELOW GRADE: PVC.
B. PIPING ABOVE GRADE: EITHER CAST IRON (CISPI 301) OR PVC AS SCHEDULED.

2.2 JOINTS
A. NO-HUB CAST IRON PIPE JOINTS: NEOPRENE SLEEVES WITH HEAVY DUTY BOLTED STAINLESS STEEL COMPRESSION BAND.
B. PLASTIC: SOLVENT WELDED JOINTS.

PART 3 - EXECUTION

3.1 PIPING
A. WHEN LAYING AND BACKFILLING PVC PIPE, THE TRENCH BOTTOM SHALL BE CONTINUOUS, RELETIVELY SMOOTH AND FREE OF ROCKS. WHERE LEDGE ROCK, ARDPAN OR BOLDERS ARE ENCOUNTERED, PAD THE TRENCH BOTTOM USING A MAXIMUM OF FOUR (4) INCHES OF TAMPED EARTH OR SAND BENEATH THE PIPE AS A CUSHION AND FOR PROTECTION OF THE PIPE FROM DAMAGE. BACKFILL MATERIALS SHALL BE FREE OF ROCKS WITH PARTICLE SIZE OF 1/2" OR LESS SURROUNDING THE PIPE WITH A MINIMUM OF 6" - 8" OF COVER. PIPING SHALL BE PROPERLY SUPPORTED ALONG IT'S HORIZONTAL RUN (MIN. OF EVERY 4'-0") PRIOR TO BACKFILLING. BACKFILL SHALL BE PLACED IN LAYERS TO A MINIMUM FILL OF TWO TIMES THE PIPE OUTSIDE DIAMETER. EACH SOIL LAYER SHALL BE SUFFICIENTLY COMPACTED OR VIBRATED TO UNIFORMLY DEVELOPE LATERAL PASSIVE SOIL FORCES DURING THE BACKFILL OPERATION. WHERE POSSIBLE, IT IS RECOMMENDED THAT THE CONTRACTOR PLACE THE PIPE UNDER PRESSURE (15 TO 25 PSI) DURING THE BACKFILLING. SEE ASTM D2321 AND MANUFACTURER'S SPECIFIC RECOMMENDATIONS AND REQUIREMENTS.
B. ABOVE GRADE PIPING TO BE SUPPORTED FROM THE BUILDING STRUCTURE. HORIZONTAL PIPING TO BE SUPPORTED AT EACH JOINT FROM THE STRUCTURE ABOVE WITH PIPE HANGERS OR FROM THE FLOOR BELOW WITH STANCHIONS OR MORTAR BEDDING.
C. SUPPORT CAST IRON PIPE AND FITTINGS PER CISPI 301-12. BRACE HORIZONTAL PIPE AND FITTINGS GREATER THAN 4" SHALL BE SUITABLY RESTRAINED TO PREVENT MOVEMENT. THIS SHALL BE DONE AT EVERY BRANCH OPENING AND CHANGE OF DIRECTION. SUPPORT AND RESTRAINT SHALL UTILIZE MANUFACTURED PIPE AND FITTING RESTRAINTS, BRACES AND RODDING AS NECESSARY TO PREVENT MOVEMENT AND / OR JOINT SEPARATION,
D. HUBBLESS CAST IRON MUST BE SUPPORTED WITHIN 18" OF HUB COUPLING. ALL OTHER PIPING SHALL BE SUPPORTED AS NOTED IN SPECIFICATIONS UNLESS MORE STRINGENT SUPPORT IS REQUIRED BY MFR. SUPPORT ALL PLUMBING PIPING FROM ROOF / FLOOR STRUCTURAL MEMBERS OR STRUCTURAL WALLS ONLY, NOT CEILING. WHERE STRUCTURE SUPPORT FOR LONG VERTICAL RUNS IS NOT POSSIBLE, PIPING SHALL BE SUPPORTED AND BRACED AT UPPER DECK FRAMING AND FLOOR. MULTIPLE VERTICAL PIPES SHALL ALSO BE SECURED TOGETHER AT INTERMEDIATE POINTS USING STRUT SUPPORT CHANNEL AND CLAMPS.
F. PIPING IN WALLS OR CHASES TO BE SECURELY SUPPORTED FROM THE WALL CONSTRUCTION.
G. PVC PIPING INSTALLED IN RETURN AIR PLENUM SHALL BE WRAPPED WITH FIRE BARRIER PLENUM WRAP FIRE RETARDANT INSULATION COMPLYING WITH FIRE CODE REQUIREMENTS.

3.2 JOINTS
A. THREADED JOINTS: PIPE DOPE OR TEFLON TAPE. DRAW UP TIGHT AND WITHOUT LEAKS.
B. NO-HUB JOINTS: USE THE PIPE MANUFACTURER'S SLEEVES AND COMPRESSION BANDS.
C. COPPER PIPING: USE SOLDER AND PETROLEUM FLUX APPLIED TO A BRIGHT, CLEAN COPPER SURFACE.
D. PLASTIC PIPING: USE MANUFACTURER'S RECOMMENDED PRIMER AND SOLVENT.

3.3 INSPECTION AND TESTING
A. SYSTEM SHALL BE INSPECTED AND TESTED PER THE REQUIREMENT OF THE LOCAL PLUMBING CODE, LOCAL AMENDMENTS AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

DOMESTIC WATER PIPING

PART 1 - GENERAL

1.1 WORK INCLUDES
A. PIPING, FITTINGS AND VALVES.

1.2 PERFORMANCE REQUIREMENTS FOR PIPING
A. PROVIDE COMPONENTS AND INSTALLATION CAPABLE OF PRODUCING DOMESTIC WATER PIPING SYSTEMS WITH THE FOLLOWING MINIMUM WORKING-PRESSURE RATINGS, UNLESS OTHERWISE INDICATED:
1. DOMESTIC WATER DISTRIBUTION PIPING: 125 PSIG (860 KPA).

1.3 QUALITY ASSURANCE
A. COMPLY WITH NSF 61, "DRINKING WATER SYSTEM COMPONENTS-HEALTH EFFECTS; SECTIONS 1" THROUGH 9," FOR POTABLE DOMESTIC WATER PIPING AND COMPONENTS.
B. COMPLY WITH NSF/ANSI 372, IN CONFORMANCE WITH PUBLIC LAW 111-380 (S3874) ALSO KNOWN AS THE "REDUCTION IN LEAD IN DRINKING WATER ACT" EFFECTIVE JAN. 4, 2014.
C. PUBLIC LAW III-380 (S.3874) "REDUCTION IN LEAD IN DRINKING WATER ACT"
D. THE SAFE WATER DRINKING ACT (SWDA)

PART 2 - PRODUCTS

2.1 COPPER PIPING
A. HARD COPPER TUBE: ASTM B 88, TYPE L WATER TUBE, DRAWN TEMPER.
B. VALVES: BRASS OR BRONZE WITH EXTENDED STEM TO ALLOW 1" INSULATION.
1. CAST-COPPER, SOLDER-JOINT FITTINGS: ASME B16.18, PRESSURE FITTINGS.
2. WROUGHT-COPPER, SOLDER-JOINT FITTINGS: ASME B16.22, WROUGHT-COPPER PRESSURE FITTINGS.
3. BRONZE FLANGES: ASME B16.24, CLASS 150, WITH SOLDER-JOINT ENDS.
4. COPPER UNIONS:
a.) MSS SP-123.
b.) CAST-COPPER-ALLOY, HEXAGONAL-STOCK BODY.
c.) BALL-AND-SOCKET, METAL-TO-METAL SEATING SURFACES.
d.) SOLDER-JOINT OR THREADED ENDS.

PART 3 - EXECUTION

3.1 PIPING AND VALVES
A. CLEAN PIPING BOTH INSIDE AND OUT BEFORE INSTALLATION. CUT PIPING CLEAN AND SQUARE WITH ALL BURRS REMOVED.
B. USE DIELECTRIC FITTING TO JOIN PIPING OF DISSIMILAR METALS.
C. SUPPORT PIPING IN WALLS AND CHASES USING NON-METALLIC, MANUFACTURED SUPPORTS SECURELY ANCHORED TO THE WALL CONSTRUCTION.
D. SUPPORT VERTICAL PIPING TO RESTRICT MOVEMENT FROM HORIZONTAL FORCES.
E. CONCEAL PIPING WITHIN THE WALLS OR PIPE CHASE UNLESS OTHERWISE NOTED. INSTALL PIPING PLUMB AND TRUE TO BUILDING WALLS AND STRUCTURAL COMPONENTS AND SO AS NOT TO INTERFERE WITH LIGHTS AND DUCTWORK.
F. SOLDER PIPING USING NON-LEAD SOLDER AND FLUX. CLEAN JOINT TO A BRIGHT COPPER FINISH ON BOTH THE MALE AND FEMALE PARTS WITH EMERY CLOTH. APPLY HEAT SUFFICIENT TO PRODUCE A MECHANICALLY SOUND AND WATERTIGHT JOINT.
G. INSTALL VALVES WITH STEMS IN AN UPWARD OR HORIZONTAL POSITION.
H. INSULATE PIPING AS SPECIFIED AND PROVIDE STEM EXTENSIONS ON VALVES LOCATED IN INSULATED PIPING RUNS.
I. SEAL PIPING TO PREVENT THE ENTRANCE OF FOREIGN MATTER DURING CONSTRUCTION.
J. SANITIZE THE DOMESTIC WATER SYSTEM PER THE REQUIREMENTS OF THE AHJ.
K. BURIED PIPE: PROVIDE MINIMUM 6" OF BURIAL DEPTH.

3.2 INSPECT
A. INSPECT THE WATER PIPING AS FOLLOWS:
1. DO NOT ENCLOSE, COVER, OR PUT PIPING INTO OPERATION UNTIL IT IS INSPECTED AND APPROVED BY AUTHORITIES HAVING JURISDICTION (AHJ).
2. DURING INSTALLATION, NOTIFY AHJ AT LEAST 72 HOURS PRIOR TO REQUIRED INSPECTION DEADLINES. PERFORM INSPECTIONS SPECIFIED BELOW IN PRESENCE OF THE AHJ:
a.) ROUGHING-IN INSPECTION: ARRANGE FOR INSPECTION OF PIPING BEFORE CONCEALING OR CLOSING-IN AFTER ROUGHING-IN AND BEFORE SETTING FIXTURES.
b.) FINAL INSPECTION: ARRANGE FOR FINAL INSPECTION BY AHJ TO OBSERVE TESTS SPECIFIED BELOW AND TO ENSURE COMPLIANCE WITH REQUIREMENTS.
3. REINSPECTION: IF AHJ FIND THAT PIPING WILL NOT PASS TEST OR INSPECTION, MAKE REQUIRED CORRECTIONS AND ARRANGE FOR REINSPECTION.

3.3 TEST
A. TEST FOR LEAKS AND DEFECTS IN NEW PIPING AND WHERE APPLICABLE, PARTS OF EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED. IF TESTING IS PERFORMED IN SEGMENTS, SUBMIT SEPARATE REPORT FOR EACH TEST, COMPLETE WITH DIAGRAM OF PORTION OF PIPING TESTED.
B. LEAVE UNCOVERED AND UNCONCEALED NEW, ALTERED, EXTENDED, OR REPLACED DOMESTIC WATER PIPING UNTIL IT HAS BEEN TESTED AND APPROVED BY THE LOCAL AUTHORITY. EXPOSE WORK THAT WAS PREMATURELY COVERED OR CONCEALED BEFORE BEING TESTED.
C. CAP AND SUBJECT PIPING TO STATIC WATER PRESSURE OF 50 PSIG (345 KPA) ABOVE OPERATING PRESSURE, WITHOUT EXCEEDING PRESSURE RATING OF PIPING SYSTEM MATERIALS. ISOLATE TEST SOURCE AND ALLOW TO STAND FOR FOUR HOURS. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED.
D. REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST PIPING OR PORTION THEREOF UNTIL SATISFACTORY RESULTS ARE OBTAINED.
E. PREPARE REPORTS FOR TESTS AND REQUIRED CORRECTIVE ACTION.

3.4 CLEANING
A. CLEAN AND DISINFECT POTABLE DOMESTIC WATER PIPING AS FOLLOWS:
1. PURGE NEW PIPING AND PORTIONS OF EXISTING DOMESTIC WATER PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED PRIOR TO PLACING INTO USE.
B. LEAVE UNCOVERED AND UNCONCEALED NEW, ALTERED, EXTENDED, OR REPLACED DOMESTIC WATER PIPING UNTIL IT HAS BEEN TESTED AND APPROVED BY THE LOCAL AUTHORITY. EXPOSE WORK THAT WAS PREMATURELY COVERED OR CONCEALED BEFORE BEING TESTED.
C. CAP AND SUBJECT PIPING TO STATIC WATER PRESSURE OF 50 PSIG (345 KPA) ABOVE OPERATING PRESSURE, WITHOUT EXCEEDING PRESSURE RATING OF PIPING SYSTEM MATERIALS. ISOLATE TEST SOURCE AND ALLOW TO STAND FOR FOUR HOURS. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED.
D. REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST PIPING OR PORTION THEREOF UNTIL SATISFACTORY RESULTS ARE OBTAINED.
E. PREPARE REPORTS FOR TESTS AND REQUIRED CORRECTIVE ACTION.

3.5 CLEANING
A. CLEAN AND DISINFECT POTABLE DOMESTIC WATER PIPING AS FOLLOWS:
1. PURGE NEW PIPING AND PORTIONS OF EXISTING DOMESTIC WATER PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED PRIOR TO PLACING INTO USE.
2. USE PURGING AND DISINFECTING PROCEDURES PRESCRIBED BY AUTHORITIES HAVING JURISDICTION OR, IF METHODS ARE NOT PRESCRIBED, PROCEDURES DESCRIBED IN EITHER AWWA C651 OR AWWA C652 OR AS DESCRIBED BELOW:
a.) FLUSH PIPING SYSTEM WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT OUTLETS.
b.) FILL AND ISOLATE SYSTEM ACCORDING TO EITHER OF THE FOLLOWING:
(1) FILL SYSTEM OR PART THEREOF WITH WATER / CHLORINE SOLUTION WITH AT LEAST 50 PPM (50 MG/L) OF CHLORINE. ISOLATE WITH VALVES AND ALLOW TO STAND FOR 24 HOURS.
(2) FILL SYSTEM OR PART THEREOF WITH WATER / CHLORINE SOLUTION WITH AT LEAST 200 PPM (200 MG/L) OF CHLORINE. ISOLATE AND ALLOW TO STAND FOR 3 HRS.
c.) FLUSH SYSTEM WITH CLEAN, POTABLE WATER UNTIL NO CHLORINE IS IN WATER COMING FROM SYSTEM AFTER THE STANDING TIME.
d.) SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AHJ. REPEAT PROCEDURES IF BIOLOGICAL EXAMINATION SHOWS CONTAMINATION.
B. PREPARE AND SUBMIT REPORTS OF PURGING AND DISINFECTING ACTIVITIES TO THE AHJ.
C. CLEAN INTERIOR OF DOMESTIC WATER PIPING SYSTEM. REMOVE DIRT AND DEBRIS AS WORK PROGRESSES.

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CONSTRUCTION

ISSUANCE SCHEDULE

NUMBER	DATE	DESCRIPTION

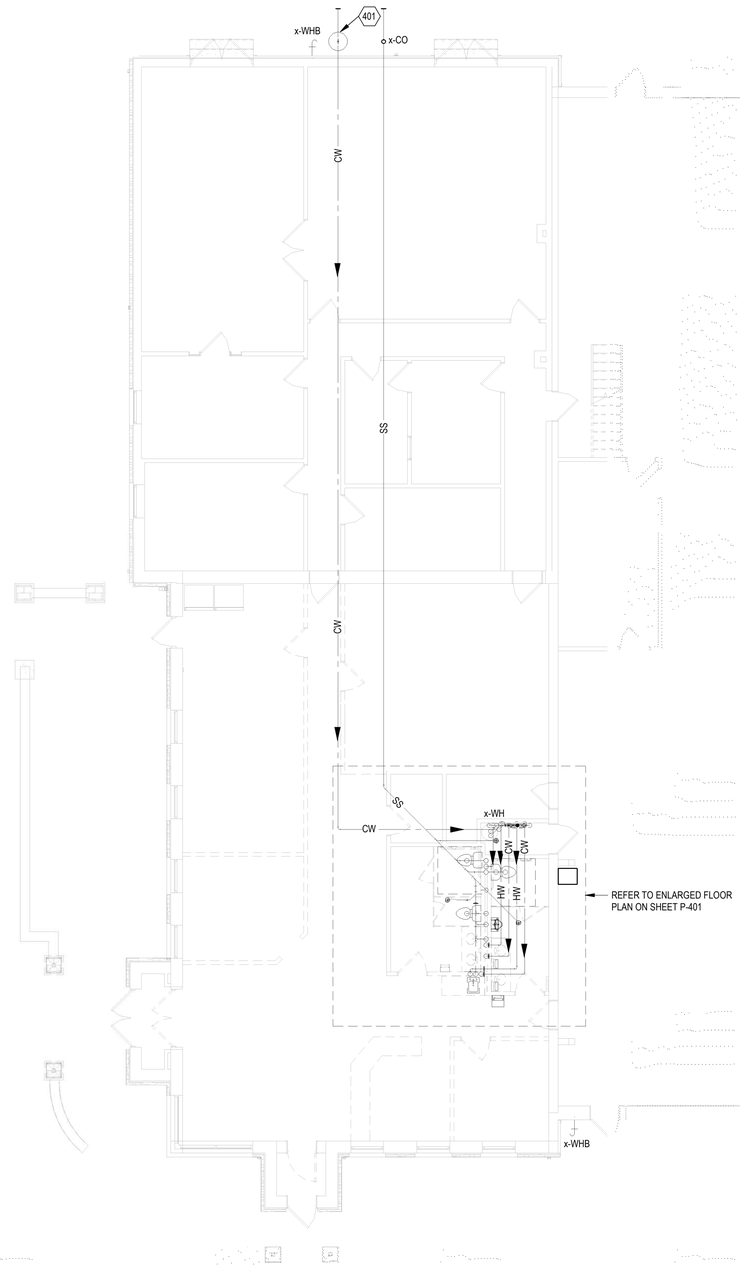
GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT
INTERIOR TERMINAL I19 RENOVATION
140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO: 10012540
DATE ISSUED: 02/17/23

DESIGNED BY: S. SAVAGE
DRAWN BY: S. SAVAGE
CHECKED BY: V. AMADOR

SHEET NAME:
PLUMBING SPECIFICATIONS

SHEET NO:
P-002



A1 OVERALL EXISTING FLOOR PLAN - DEMOLITION
1/8" = 1'-0"

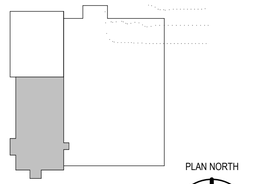
GENERAL NOTES:

A. ALL SANITARY WASTE AND SUPPLY PIPING IS LOCATED BELOW FLOOR IN GRADE UNLESS OTHERWISE NOTED.

B. ALL DWV AND SUPPLY PIPING LOCATIONS ARE ASSUMED, THERE ARE NO RECORD DRAWINGS FOR REFERENCE.

SHEET KEYNOTES:

401 EXISTING WATER METER TO REMAIN.



KEY PLAN
NOT TO SCALE

PLAN NORTH

PLAN NORTH

GRAPHIC SCALE
1/8"=1'-0"
0 4' 8' 16' 24'

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INTERIOR TERMINAL I19 RENOVATION

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XENIA, OH 45386

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DESIGNED BY:	S. SAVAGE
DRAWN BY:	S. SAVAGE
CHECKED BY:	V. AMADOR

SHEET NAME:
PLUMBING DEMOLITION PLAN

SHEET NO:
PD101

A1 OVERALL FIRST FLOOR PLAN
1/8" = 1'-0"

PLAN NORTH

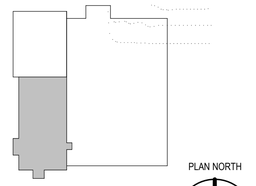
GENERAL NOTES:

A. ALL SANITARY WASTE AND SUPPLY PIPING IS LOCATED BELOW FLOOR IN GRADE UNLESS OTHERWISE NOTED.

B. ALL DWV AND SUPPLY PIPING LOCATIONS ARE ASSUMED, THERE ARE NO RECORD DRAWINGS FOR REFERENCE.

SHEET KEYNOTES:

501 EXISTING WATER METER TO REMAIN.



KEY PLAN
NOT TO SCALE

PLAN NORTH

GRAPHIC SCALE
1/8"=1'-0"
0 4' 8' 16' 24'

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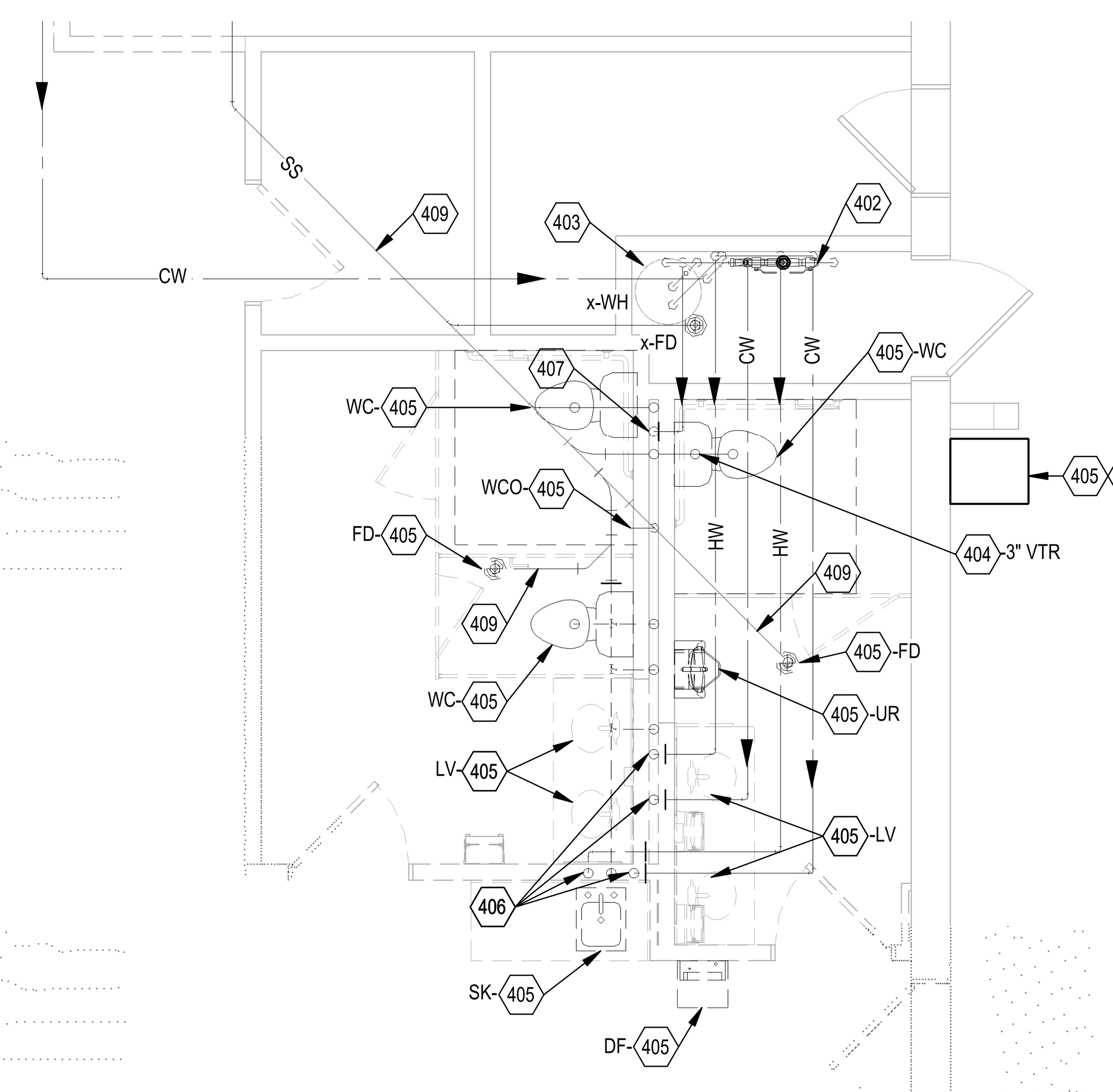
CHECKED BY:	V. AMADOR

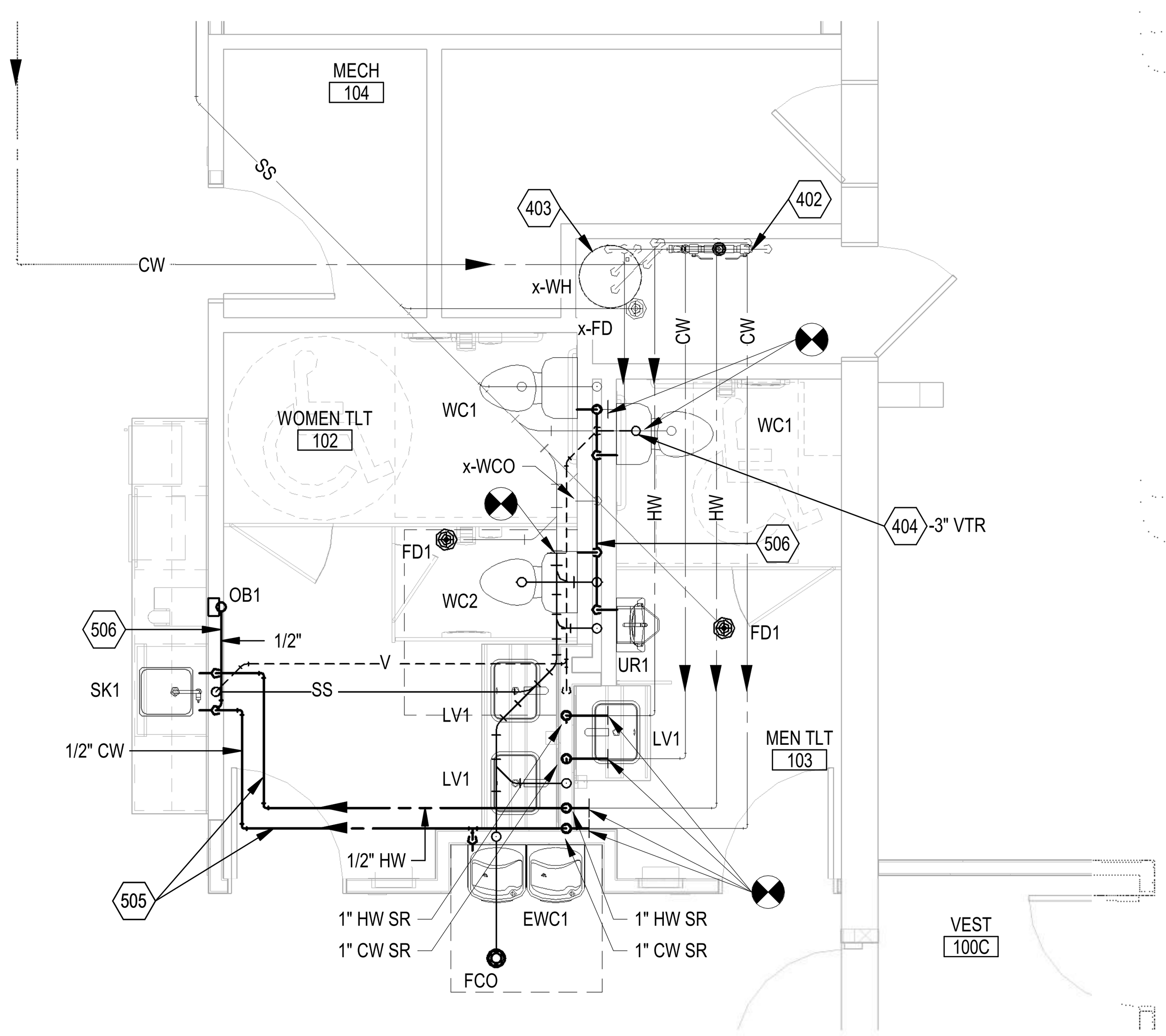
SHEET NAME:
PLUMBING PLAN

SHEET NO:
P-101



B2 ENLARGED RESTROOM FLOOR PLAN - DEMOLITION

1/4" = 1'-0"



B4 ENLARGED RESTROOM FLOOR PLAN - NEW WORK

1/4" = 1'-0"

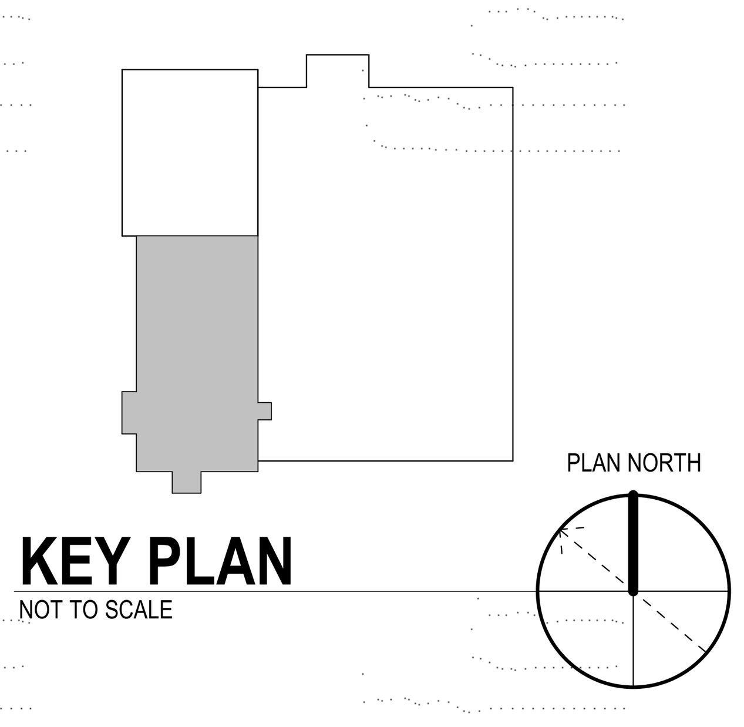
GENERAL NOTES:

A. ALL SANITARY WASTE AND SUPPLY PIPING IS LOCATED BELOW FLOOR IN GRADE UNLESS OTHERWISE NOTED.

B. ALL DWV AND SUPPLY PIPING LOCATIONS ARE ASSUMED, THERE ARE NO RECORD DRAWINGS FOR REFERENCE.

SHEET KEYNOTES:

402 EXISTING BACKFLOW PREVENTER TO REMAIN.
403 EXISTING WATER HEATER TO REMAIN.
404 EXISTING VENT THROUGH ROOF TO REMAIN.
405 REMOVE EXISTING PLUMBING FIXTURE IN ITS ENTIRETY.
406 APPROXIMATE LOCATIONS OF COLD AND HOT WATER SUPPLY RISERS SERVING EXISTING LAVATORIES AND SINK.
407 APPROXIMATE LOCATION OF COLD WATER SUPPLY RISER SERVING EXISTING WATER CLOSETS AND URINAL.
408 REMOVE ALL DRAIN, WASTE AND VENT PIPE AND COLD AND HOT WATER SUPPLY PIPING SERVING THE LAUNDRY TUB AS CLOSE AS POSSIBLE TO SUPPLY MAINS/RISERS AND CAP.
409 PRIOR TO BEGINNING WORK THIS CONTRACTOR SHALL SNAKE THE EXISTING SANITARY PIPING BELOW SLAB TO VERIFY THE CONDITION IS IN WORKING ORDER. ANY PIPING DISCOVERED TO BE DAMAGED SHALL BE INCLUDED IN THIS SCOPE TO BE REPLACED WITH NEW.
505 PIPING LOCATED ABOVE CEILING.
506 PIPING LOCATED IN WALL.



KEY PLAN

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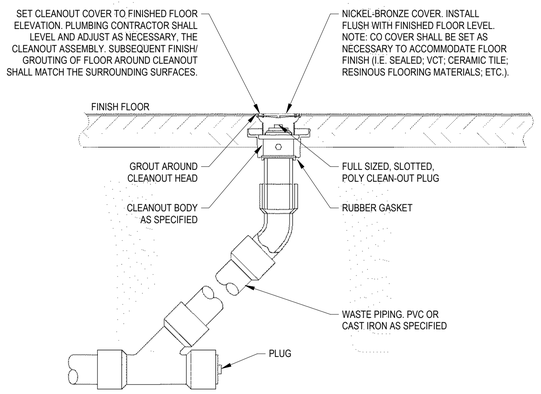
SHEET NAME:
ENLARGED PLUMBING PLANS

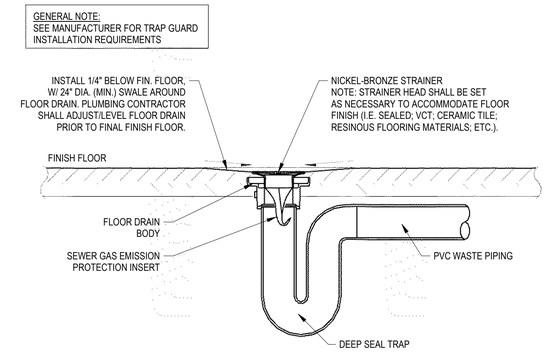
SHEET NO:
P-401

2/17/2023 4:22:25 PM
Autodesk Docs://Greene County Airport - Hub/_W_10012540_Greene Co Airport Int Terminal Reno_MEPC_R22.rvt



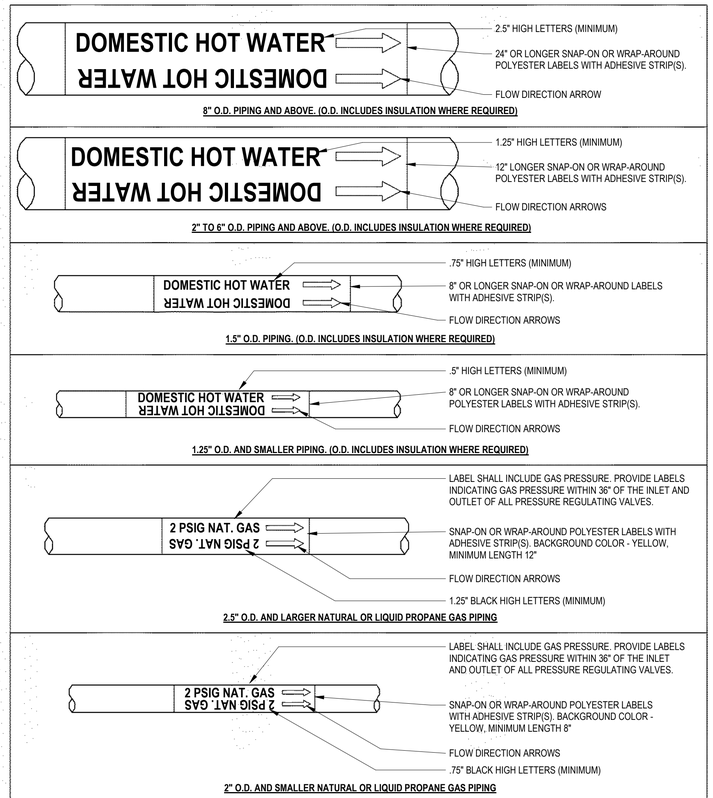
D1 FLOOR CLEANOUT INSTALLATION DETAIL

NTS



D3 FLOOR DRAIN INSTALLATION DETAIL

NTS



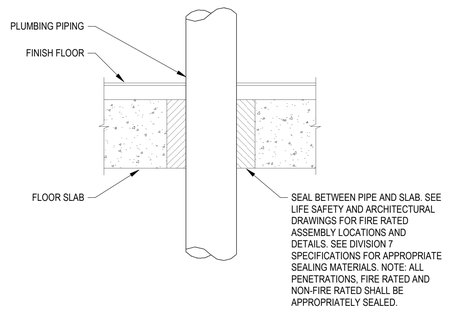
LABEL TEXT AND COLOR LEGEND

PIPE SYSTEM DESCRIPTION	LETTER COLOR	BACKGROUND COLOR	PIPE SYSTEM DESCRIPTION	LETTER COLOR	BACKGROUND COLOR
ACID VENT	BLACK	YELLOW	SPRINKLER-FIRE	WHITE	RED
ACID WASTE	BLACK	YELLOW	STORM	WHITE	GREEN
CITY WATER	WHITE	GREEN	MEDICAL AIR	BLACK	YELLOW
COMPRESSED AIR	WHITE	BLUE	MEDICAL VACUUM	BLACK	WHITE
DEIONIZED WATER	WHITE	GREEN	NITROGEN	WHITE	BLACK
DOMESTIC COLD WATER	WHITE	GREEN	NITROUS OXIDE	WHITE	BLUE
DOMESTIC HOT WATER*	BLACK	YELLOW	OXYGEN	WHITE	GREEN
DOMESTIC HOT WATER RETURN	BLACK	YELLOW			
NATURAL OR LP GAS	BLACK	YELLOW			
SANITARY DRAIN	WHITE	GREEN			

*NOTE: WHERE TEMPERATURE MAINTENANCE CABLE SYSTEM IS INSTALLED ON DOMESTIC HOT WATER PIPING, MANUFACTURER PROVIDED LABELS IDENTIFYING TEMPERATURE MAINTENANCE CABLE MUST BE INSTALLED.

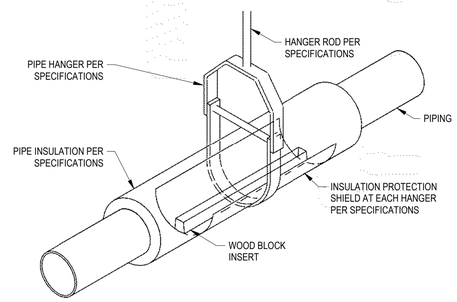
A5 PLUMBING PIPING LABEL DETAILS

NTS



A1 PIPE PENETRATION THRU FLOOR SLAB DETAIL

NTS



A3 PIPE HANGER AND INSULATION DETAIL

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INTERIOR TERMINAL I19 RENOVATION

140 N VALLEY ROAD
XENIA, OH 45386

PROJECT NO:	10012540
DATE ISSUED:	02/17/23
DESIGNED BY:	S. SAVAGE
DRAWN BY:	S. SAVAGE
CHECKED BY:	V. AMADOR

SHEET NAME:
PLUMBING DETAILS

SHEET NO:
P-501

PLUMBING FIXTURE SCHEDULE

PLAN MARK	DESCRIPTION	MANUFACTURER	MODEL	MATERIAL DESCRIPTION	FINISH	ADA COMPLIANT	MOUNTING	MOUNTING HEIGHT	TRIM			VOLTS/PHASE/HZ	HP	ROUGH-IN PIPE SIZE				NOTES
									OPERATION	MANUFACTURER	MODEL			WASTE	VENT	COLD WATER	HOT WATER	
EWC1	ELECTRIC WATER COOLER - DUAL HEIGHT - BOTTLE FILLER - ADA	ELKAY	EZSTL8WSSK	GALVANIZED STEEL	STAINLESS STEEL CABINET	YES	WALL HUNG	36" TO LOW BUBBLER	MANUAL	UNIT	UNIT	115 / 1 / 60	1/16	1-1/2"	1-1/2"	1/2"	---	1,2,3,6,7,11,G1,B2,B3
LV1	LAVATORY - COUNTER - ADA	KOHLER	K-20000	WHITE VITREOUS CHINA	WHITE	YES	UNDERMOUNT	34" TO RIM	ELECTRONIC	KOHLER	K-13468	120 / 1 / 60	1/16	1-1/2"	1-1/2"	1/2"	1/2"	1,2,3,5,6,8,9,H2,B3,C3
OB1	COFFEE MAKER OUTLET BOX	SIOUX CHIEF	696-G1000MF	ABS PLASTIC	WHITE	NO	IN WALL	40" TO BOTTOM	MANUAL	UNIT	UNIT	---	---	---	---	1/2"	---	1,2,3,6,M4
SK1	SINGLE BOWL SINK - KITCHENETTE - ADA	KOHLER	K-3331-NA	STAINLESS STEEL	STAINLESS STEEL	YES	UNDERMOUNT	34" TO RIM	MANUAL	KOHLER	K-7507	---	---	1-1/2"	1-1/2"	1/2"	1/2"	1,2,3,6,8,9,H2,B3,E3,F3
UR1	URINAL - ADA	AMERICAN STANDARD	WASHBROOK 6590.503	WHITE VITREOUS CHINA	WHITE	YES	WALL HUNG	17" TO LIP	MANUAL	SLOAN	186-0.125	---	---	2"	1-1/2"	3/4"	---	1,2,3,4,6,10,C1,K3
WC1	WATER CLOSET - FLOOR MOUNT - TANK TYPE - ADA	AMERICAN STANDARD	2467.016	WHITE VITREOUS CHINA	WHITE	YES	FLOOR	16-1/2" TO RIM	MANUAL	UNIT	UNIT	---	---	4"	2"	1"	---	1,2,3,4,6,10,A3,B3,D3
WC2	WATER CLOSET - FLOOR MOUNT - TANK TYPE	AMERICAN STANDARD	2462.016	WHITE VITREOUS CHINA	WHITE	NO	FLOOR	15" TO RIM	MANUAL	UNIT	UNIT	---	---	4"	2"	1/2"	---	1,2,3,4,6,10,A3,B3,D3

NOTES:
1. SEE PLUMBING SPECIFICATIONS, DRAWINGS AND DETAILS FOR ADDITIONAL INFORMATION.
2. SEE ARCHITECTURAL DRAWINGS FOR FIXTURE HEIGHTS AND LOCATION REQUIREMENTS.
3. SEE PLUMBING DRAWINGS AND DETAILS FOR ADDITIONAL INFORMATION.
4. FLUSH VALVE LEVER TO BE ON WIDE AREA SIDE OF TOILET ROOM.
5. LAVATORY MUST BE MOUNTED PER MANUFACTURER ACCESSIBILITY REQUIREMENTS IN ORDER TO COMPLY WITH ADA GUIDELINES FOR PROPER KNEE CLEARANCE.
6. CAULK / SEAL AROUND PERIMETER OF FIXTURE / UNIT.
7. RATED FOR 8 GPH AT 50° BASED ON 80° INLET WATER AND 90°F AMBIENT.
8. UNDER LAVATORY / SINK, IN-LINE INSTALLATION OF THERMOSTATIC MIXING VALVE. LAVATORY: SET TEMP: 105 DEGREES F. / SINK : SET TEMP: 115 DEGREES F.
9. SEE ARCHITECTURAL DRAWINGS FOR COUNTERTOP AND BOWL REQUIREMENTS.
10. RESTROOM FIXTURE GROUP ARRANGEMENTS MAY INCLUDE THE SUBSTITUTION OF ONE LARGER SHOCK ARRESTOR ("C"- COLD WATER AND "A"- HOT WATER) PER RESTROOM GROUP, IN LIEU OF ONE EACH, INDIVIDUAL FIXTURE SHOCK ARRESTOR . SEE MANUFACTURER'S INSTALLATION REQUIREMENTS WHERE THIS OPTION IS SELECTED.
11. CANE APRON WILL NOT BE REQUIRED IF WATER COOLER IS RECESSED INTO AN "ADA" APPROVED ALCOVE.

CARRIER/SUPPORTS
A1 - WATER CLOSET CARRIER
B1- CHAIR CARRIER
C1- CHAIR CARRIER WITH CONCEALED ARMS
D1 - WALL REINFORCEMENT FOR HANGER ATTACHMENT
E1 - MANUFACTURER'S STD
F1 - FIELD FABRICATED
G1 - WALL BRACKET / HANGER

EQUIPMENT/FITTINGS
A2 - LAVATORY TRAP COVER/SHROUD (TRUEBRO #2018-TO-L)
B2 - CANE BEZEL/APRON
C2 - INSULATION: PREMOLDED VINYL JACKETING ON SUPPLY & WASTE.
D2 - SHOWER ROD w/ RECEIVER CUPS AND WEIGHTED CURTAIN w/ HOOKS, STATIONARY SHOWER HEAD, SUPPLY ELBOW, FRONT TRENCH DRAIN
E2 - GRAB BARS, FOLDING SEAT, SHOWER ROD w/ RECEIVER CUPS AND WEIGHTED CURTAIN w/ HOOKS, HAND HELD SHOWER w/INLINE VACUUM BREAKER, 60"S.S. HOSE, SLIDE BAR/RAIL, STATIONARY SHOWER HEAD, SUPPLY ELBOW, DIVERTER, FRONT TRENCH DRAIN
F2 - HOSE WITH BRACKET & FOUR HOLDER MOP RACK
G2 - STAINLESS STEEL WALL GUARD
H2 - ASSE 1070 THERMOSTATIC MIXING VALVE
I2 - ASSE 1016T/P T'STATIC/PRESSURE BALANCE SHOWER VALVE
J2 - 2" STANDPIPE, 1/2" DUAL CLOSE BALL TYPE VALVES w/SHOCK ARRESTORS.
K2 - ANGLE BALL VALVE ARRANGEMENT w/ SHOCK ARRESTOR
L2 - ASSE 1070 THERMOSTATIC MIXING VALVE AND WALL ACCESS PANEL
M2 - GARBAGE DISPOSER - 3/4 HP

ACCESSORIES
A3 - TOILET SEAT - "ANTI-MICROBIAL"
B3 - SUPPLIES WITH SCREWDRIVER STOPS
C3 - STRAINER / DRAIN: GRID
D3 - NO-SEEP #3 URETHANE / WAX RING
E3 - STRAINER/DRAIN: BASKET TYPE
F3 - TRAP: 17 GAUGE, 1-1/4"; 1-1/2"; 2"; 3" NPS, WITH CLEANOUT PLUG
G3 - FOLD UP, PHENOLIC SHOWER SEAT
H3 - CONTINUOUS WASTE
K3 - SHOCK ARRESTOR (type: A,B,C,D)
L3 - ALARM PACKAGE
M3 - TWO 60" HOSES (WASHING MACHINE LOCATION ONLY)
M4 - FITTINGS AND FLEXIBLE TUBING FOR COFFEE MAKER CONNECTION. (COORDINATE REQUIREMENTS WITH OWNER ON SPECIFIC COFFEE MAKER CONNECTION REQUIREMENTS)
M5 - FITTINGS AND FLEXIBLE TUBING FOR ICE MAKER CONNECTION. (COORDINATE REQUIREMENTS WITH OWNER ON SPECIFIC ICE MAKER CONNECTION REQUIREMENTS.)

DRAIN AND CLEANOUT SCHEDULE

PLAN MARK	DESCRIPTION	MATERIAL DESCRIPTION		ROUGH-IN PIPE SIZE		NOTES
		DRAIN BODY	STRAINER/GRATE SIZE	WASTE	VENT	
FCO	FLOOR CLEANOUT	CAST IRON	NICKEL BRONZE	3"	---	1
FD1	FLOOR DRAIN	EPOXY COATED CAST IRON	NICKEL BRONZE	3"	1-1/2"	2

NOTES:
1. CLEANOUT SIZES SHALL BE SAME SIZE AS PIPE SERVED, UP TO 6". CONTRACTOR TO COORDINATE AND FIELD VERIFY.
2. PROVIDE SEWER EMISSIONS INSERT IN FLOOR DRAIN OUTLETS, SEE SPECIFICATIONS FOR ADDITIONAL SEWER EMISSION INSERT INFORMATION. INSTALL PER INSERT MANUFACTURER'S INSTALLATION INSTRUCTIONS.

WATER HAMMER ARRESTOR SIZING TABLE (PER PDI)

CONNECTION SIZE	FIXTURE UNITS	CROSS REF. PDI
1/2"	1-11	A
3/4"	12-32	B
1"	33-60	C
1-1/4"	61-113	D
1-1/2"	114-154	E
2"	155-300	F

WOOLPERT
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4454 IDEA CENTER BOULEVARD
DAYTON, OH 45430-1500
800.414.1045

100%
SUBMITTAL

PRELIMINARY
NOT FOR CONSTRUCTION

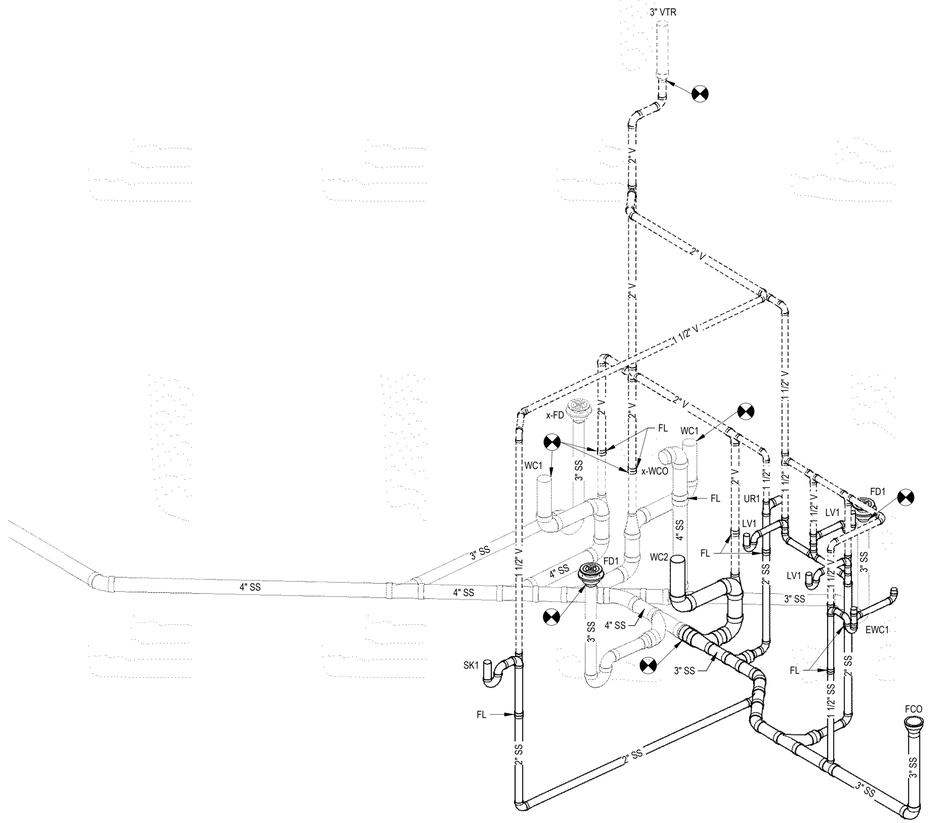
ISSUANCE SCHEDULE
NUMBER	DESCRIPTION	DATE

GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT
INTERIOR TERMINAL I19 RENOVATION
140 N VALLEY ROAD
XENIA, OH 45386

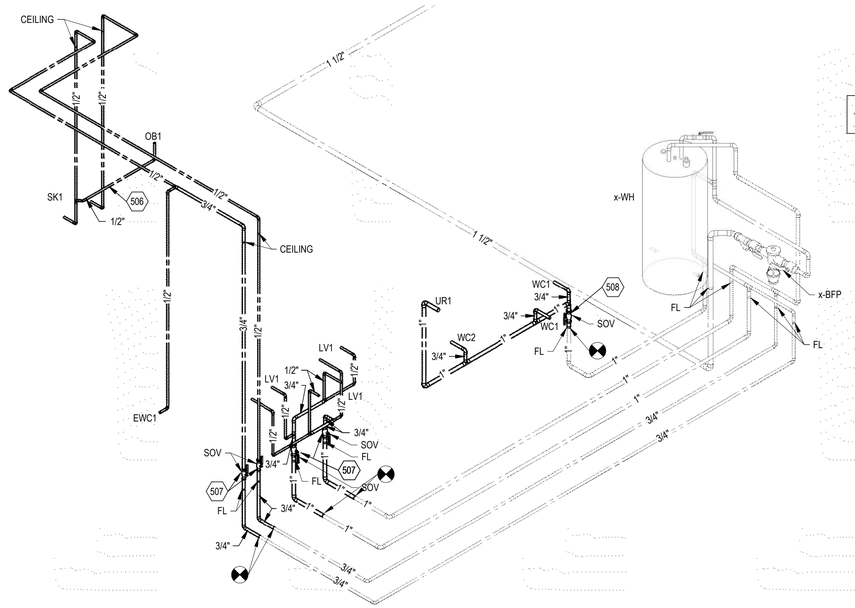
PROJECT NO: 10012540
DATE ISSUED: 02/17/23
DESIGNED BY: S. SAVAGE
DRAWN BY: S. SAVAGE
CHECKED BY: V. AMADOR

SHEET NAME:
PLUMBING SCHEDULES

SHEET NO:
P-601



A1 SANITARY WASTE AND VENT ISOMETRIC
NTS



C4 DOMESTIC WATER ISOMETRIC
NTS

SHEET KEYNOTES:

506 PIPING LOCATED IN WALL.

507 PROVIDE ACCESS PANELS FOR ALL SHUT-OFF VALVES. ACCESS PANELS SHALL BE LOCATED IN AN ACCESSIBLE LOCATION BELOW LAVATORY IN MEN'S TOILET ROOM 103.

508 PROVIDE ACCESS PANEL FOR SHUT-OFF VALVE. ACCESS PANEL SHALL BE LOCATED IN AN ACCESSIBLE LOCATION BELOW WATER CLOSET IN WOMEN'S TOILET ROOM 102.

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GREENE COUNTY - LEWIS A. JACKSON REGIONAL AIRPORT

INTERIOR TERMINAL I19 RENOVATION

140 N VALLEY ROAD
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PROJECT NO:	10012540
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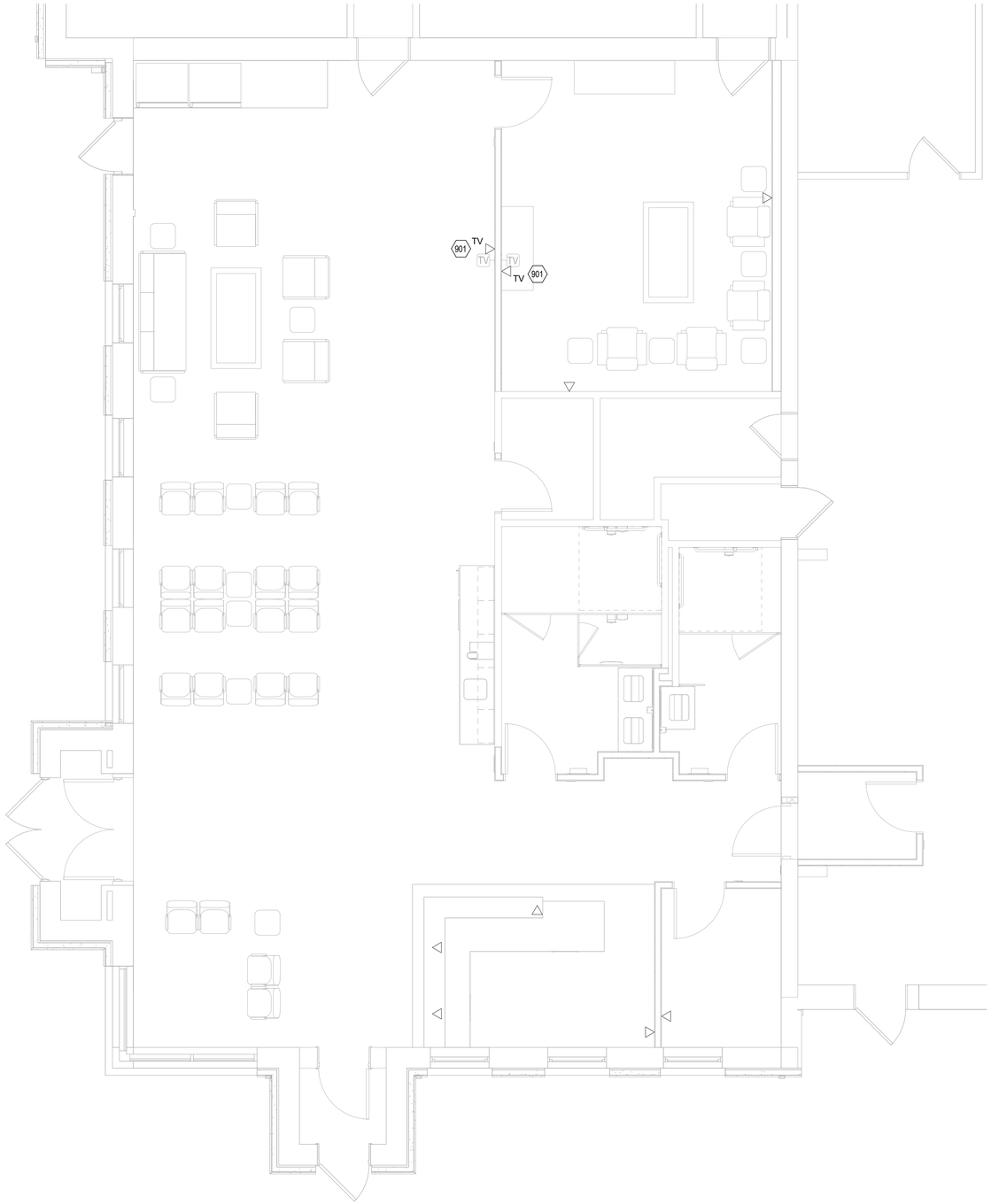
DESIGNED BY:	S. SAVAGE
DRAWN BY:	S. SAVAGE
CHECKED BY:	V. AMADOR

SHEET NAME:
SANITARY WASTE AND VENT AND DOMESTIC WATER ISOMETRIS

SHEET NO:
P-901



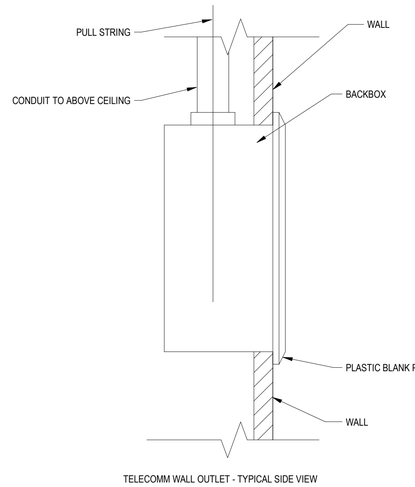
A1 TELECOM PLAN
1/4" = 1'-0"

GENERAL NOTES:

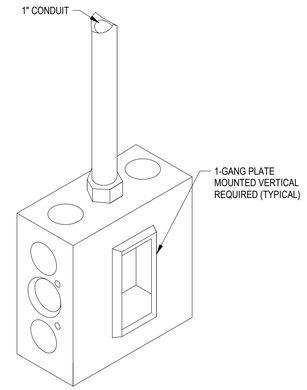
1. E.C. TO PROVIDE ROUGH-INS ONLY FOR TELECOMMUNICATIONS LOCATIONS. OWNER WILL PROVIDE ALL CABLING AND TERMINATIONS.

SHEET KEYNOTES:

901 MOUNT AT SAME HEIGHT AS RECEPTACLE.

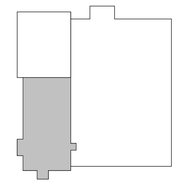


TELECOMM WALL OUTLET - TYPICAL SIDE VIEW



TWO GANG BACKBOX WITH 1-GANG RING
(4-11/16" SQ x 2-1/2" DEEP)

B5 LOW VOLTAGE ROUGH-IN BOX DETAIL
NTS



KEY PLAN
NOT TO SCALE

PLAN NORTH

1/4"=1'-0" 0 2' 4' 8' 12'

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STATE OF OHIO
ROBERT D VOISARD
E-79035
REGISTERED
PROFESSIONAL ENGINEER
02/20/2023

ISSUANCE SCHEDULE

NUMBER	DATE	DESCRIPTION

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DESIGNED BY:	R. VOISARD
DRAWN BY:	R. VOISARD
CHECKED BY:	P. DIETERLEN

SHEET NAME:
TELECOM PLANS

SHEET NO:
T-101