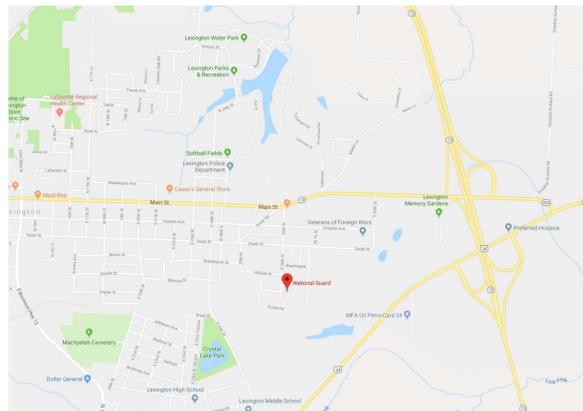


RENOVATE EXTERIOR & INTERIOR LEXINGTON READINESS CENTER

LEXINGTON, MISSOURI

LOCATION MAP:



OWNER: STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

DEPARTMENT OF PUBLIC SAFETY
MISSOURI NATIONAL GUARD
OFFICE OF ADJUTANT GENERAL

**PROJECT
MANAGEMENT:** OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION



DESIGNERS:

ARCHITECTS:
ELLISON-AUXIER ARCHITECTS, INC.
924 FRANCIS
ST. JOSEPH, MO 64501

ENGINEER:
HENDERSON ENGINEERS, INC.
1617 WALNUT STREET
KANSAS CITY, MO 64108

PROJECT NO: T1906-01
SITE NO: 6264
ASSET NO: 8136264001

CODE INFORMATION:

INTERNATIONAL BUILDING CODE (IBC) 2009
INTERNATIONAL PLUMBING CODE (IPC) 2009
INTERNATIONAL MECHANICAL CODE (IMC) 2009
INTERNATIONAL FIRE CODE (IFC) 2009
INTERNATIONAL EXISTING BUILDING CODE (IEBC) 2009
NATIONAL ELECTRIC CODE (NEC) 2008

CONSTRUCTION TYPE: 2B

USE GROUP: B (BUSINESS) & A-2 (ASSEMBLY)

SHEET NUMBER

G-001

1 of 40 SHEETS
DEC. 9, 2019

ABBREVIATIONS:

AB	ANCHOR BOLT	DIM	DIMENSION	INCL	INCLUDED / INCLUDING	PREFAB	PREFABRICATED
AC	AIR CONDITIONING	DS	DOWNSPOUT	INFO	INFORMATION	PROJ	PROJECT
ACC	ACCESSIBLE	DIA	DIAMETER	INSUL	INSULATION	PT	POINT
ACOUST	ACOUSTICAL	DIFF	DIFFUSER	INT	INTERIOR	PTD	PAINTED
ACT	ACOUSTICAL CEILING TILE	DISP	DISPENSER				
AD	AREA DRAIN	DN	DOWN	JAN	JANITOR	QT	QUARRY TILE
ADD	ADDITIONAL	DR	DOOR	JC	JANITOR CLOSET	QTY	QUANTITY
ADJ	ADJUSTABLE	DW	DISHWASHER	JST	JOIST		
AFF	ABOVE FINISHED FLOOR	DWG	DRAWING	JT	JOINT	REQ'D	REQUIRED
AGGR	AGGREGATE					REV	REVERSE / REVISE
ALT	ALTERNATE	E	EAST	LAV	LAVATORY	RAD	RADIUS
ALUM	ALUMINUM	EXIST	EXISTING	LDG	LANDING	RCP	REFLECTED CEILING PLAN
ANCH	ANCHOR BOLT	EJ	EXPANSION JOINT	LAM	LAMINATE / LAMINATION	REINF	REINFORCED / REINFORCING
ANNO	ANNOZED	ELEV	ELEVATION	LB	POUND	REL	RELOCATE
APPD	APPROVED	EQ	EQUAL	LF	LINEAR FOOT	REM	REMOVABLE
APPROX	APPROXIMATE	EA	EACH	LT	LIGHT	RO	ROUGH OPENING
ARCH	ARCHITECTURAL	ETR	EXISTING TO REMAIN			RTD	RATED
AUTO	AUTOMATIC	EQUIP	EQUIPMENT	MACH	MACHINE	RD	ROOF DRAIN
AV	AUDIO VISUAL	EXT	EXTERIOR	MAINT	MAINTENANCE		
				MATL	MATERIAL	S	SOUTH
BD	BOARD	FD	FLOOR DRAIN	MAX	MAXIMUM	SC	SEALED CONCRETE
BLDG	BUILDING	FEC	FIRE EXTINGUISHER CABINET	MECH	MECHANICAL	SHT	SHEET
BLKG	BLOCKING	FE	FIRE EXTINGUISHER	MTL	METAL	SIM	SIMILAR
BM	BEAM	FIN	FINISH	MEMB	MEMBRANE	SPEC	SPECIFICATION
BO	BOTTOM OF	FLR	FLOOR	MIN	MINIMUM	STL	STEEL
BRK	BRICK	FB	FACE BRICK	MISC	MISCELLANEOUS	STRUCT	STRUCTURAL
BSMT	BASEMENT	FDN	FOUNDATION	MO	MASONRY OPENING	SUSP	SUSPENDED
BT	BOLT	FIXT	FIXTURE	MR	MOLD RESISTANT	SECT	SECTION
		FLASH	FLASH	MTD	MOUNTED	SHR	SHOWER
CAB	CABINET	FOW	FACE OF WALL	MTG	MOUNTING	SQ	SQUARE FEET / FOOT
CAT	CATEGORY	FS	FLOOR SINK	MULL	MULLION	STD	STANDARD
CB	CATCH BASIN	FV	FIELD VERIFY			STOR	STORAGE
CEM	CEMENT	FT	FEET	N	NORTH	SYS	SYSTEM
CER	CERAMIC	FTG	FOOTING	NA	NOT APPLICABLE		
CC	CENTER TO CENTER	FURN	FURNITURE	NIC	NOT IN CONTRACT		
CHAN	CHANNEL			NTS	NOT TO SCALE	TO	TOP OF:
CIP	CAST-IN-PLACE	GA	GAUGE			TYP	TYPICAL
CJ	CONTROL JOINT	GALV	GALVANIZED	OC	ON CENTER	TEMP	TEMPERED
CG	CORNER GUARD	GYP	GYPSUM	OD	OUTSIDE DIAMETER	THK	THICKNESS
CMU	CONCRETE MASONRY UNIT	GB	GRAB BAR	OH	OVERHEAD	TPD	TOILET PAPER DISPENSER
CONC	CONCRETE	GR	GRADE	OFD	OVERFLOW DRAIN		
CL	CENTER LINE	GRD	GROUND	OPG	OPENING	UL	UNDERWRITERS LABORATORIES
CLG	CEILING	GC	GENERAL CONTRACTOR	OPP	OPPOSITE	UNO	UNLESS NOTED OTHERWISE
CLR	CLEAR					UR	URINAL
CNTR	COUNTER	HT	HEIGHT	PAV	PAVING	UNFIN	UNFINISHED
CO	CLEANOUT	HB	HOSE BIBB	PTN	PARTITION		
COL	COLUMN	HC	HOLLOW CORE	PATD	PAPER TOWEL DISPENSER	VCT	VINYL COMPOSITION TILE
CONT	CONTINUOUS	HCP	HANDICAPPED	PBD	PARTICLEBOARD	VERT	VERTICAL
CONTR	CONTRACTOR	HDW	HARDWARE	PC	PRECAST CONCRETE	VEST	VESTIBULE
COORD	COORDINATE	HDWD	HARDWARE	PERF	PERFORATED		
CORR	CORRIDOR	HM	HOLLOW METAL	PERIM	PERIMETER	W/	WITH
CT	CERAMIC TILE	HNDRL	HANDRAIL	PERP	PERPENDICULAR	W	WEST
		HORIZ	HORIZONTAL	PL	PLATE	WC	WATER CLOSET
DBL	DOUBLE	HR	HOUR	PLAM	PLASTIC LAMINATE	WD	WOOD
DEG	DEGREE	HVAC	HEATING, VENTILATING & AIR	PLYWD	PLYWOOD	W/O	WITHOUT
DEMO	DEMOLITION		CONDITIONING	PLBG	PLUMBING	WP	WATERPROOFING
DEPT	DEPARTMENT			PNL	PANEL	WSCT	WAINSCOT
DTL	DETAIL	ID	INSIDE DIAMETER	PR	PAIR	WT	WEIGHT
DF	DRINKING FOUNTAIN	IN	INCH				

SYMBOLS LEGEND:

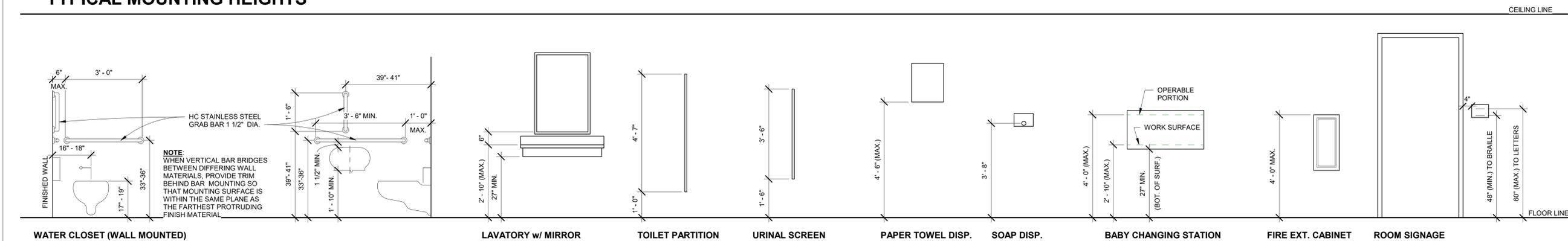
SYMBOL	DESCRIPTION
	ROOM TAG
	DOOR NUMBER TAG
	WINDOW NUMBER TAG
	PARTITION TYPE TAG
	EXTERIOR / INTERIOR ELEVATION MARKER
	BUILDING SECTION MARKER
	WALL SECTION MARKER
	DETAIL REFERENCE (SECTION VIEW)
	DETAIL / ENLARGED PLAN REFERENCE (PLAN VIEW)

MATERIALS LEGEND:

	CONCRETE		EARTH/BACKFILL
	CONCRETE BLOCK		FINISHED WOOD
	BRICK MASONRY		GYPSUM BOARD
	RIGID INSULATION		PLYWOOD
	BATT OR BLOWN INSUL.		INSULATION BOARD
	DIMENSIONAL LUMBER		

LIST OF DRAWINGS	
SHEET NUMBER	SHEET NAME
01 GENERAL	
G-001	COVER SHEET
G-002	SHEET INDEX, SYMBOLS & LEGENDS, MOUNTING HEIGHTS & ABBREVIATIONS
03 ARCHITECTURAL	
A-101	LEVEL 1 FLOOR PLAN
A-102	LEVEL 2 FLOOR PLAN
A-103	ENLARGED FLOOR PLAN
A-201	ROOF PLAN - ALTERNATE BID #1
A-301	BUILDING ELEVATION
A-601	DOOR SCHEDULE AND DETAILS
A-602	FINISH SCHEDULE AND DETAILS
A-701	NEW LEVEL 1 REFLECTED CEILING PLAN
A-702	NEW LEVEL 2 REFLECTED CEILING PLAN
D-101	DEMOLITION LEVEL 1
D-102	DEMOLITION LEVEL 2
03 FIRE	
F-111	FIRST FLOOR FIRE ALARM PLAN
F-112	SECOND FLOOR FIRE ALARM PLAN
F-601	FIRE ALARM DETAILS AND SCHEDULES
04 PLUMBING	
P-001	PLUMBING SYMBOLS, SCHEDULES, LEGENDS, & DETAILS
P-111	PLUMBING 1ST FLOOR PLAN
P-112	PLUMBING 2ND FLOOR PLAN
P-401	PLUMBING ENLARGED PLAN
P-501	PLUMBING SCHEDULES & DETAILS
05 MECHANICAL	
M-001	MECHANICAL SYMBOLS & LEGENDS
M-111	MECHANICAL 1ST FLOOR PLAN
M-112	MECHANICAL 2ND FLOOR PLAN
M-201	MECHANICAL ROOF PLAN
M-501	MECHANICAL DETAILS
M-601	MECHANICAL SCHEDULES
M-602	MECHANICAL SCHEDULES
06 ELECTRICAL	
E-001	ELECTRICAL SYMBOLS & LEGENDS
E-110	FIRST FLOOR ELECTRICAL POWER DEMO PLAN
E-111	SECOND FLOOR ELECTRICAL POWER DEMO PLAN
E-112	FIRST FLOOR ELECTRICAL POWER PLAN
E-113	SECOND FLOOR ELECTRICAL POWER PLAN
E-114	ELECTRICAL ROOF PLAN
E-601	ELECTRICAL SCHEDULES AND ONE-LINE
E-602	ELECTRICAL SCHEDULES
E-603	ELECTRICAL SCHEDULES
E-604	ELECTRICAL SCHEDULES
E-701	FIRST FLOOR ELECTRICAL LIGHTING PLAN
E-702	SECOND FLOOR ELECTRICAL LIGHTING PLAN
Grand total: 40	

TYPICAL MOUNTING HEIGHTS



STATE OF MISSOURI
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MISSOURI NATIONAL GUARD

RENOVATE EXTERIOR &
INTERIOR LEXINGTON
READINESS CENTER
408 S. 26TH STREET
LEXINGTON, MISSOURI

PROJECT #: T1906-01
SITE #: 6264
ASSET#: 8136264001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: DEC. 9, 2019

CAD DWG FILE:T1906-01-6264-G-002
DRAWN BY: AML
CHECKED BY: JKE
DESIGNED BY: JKE

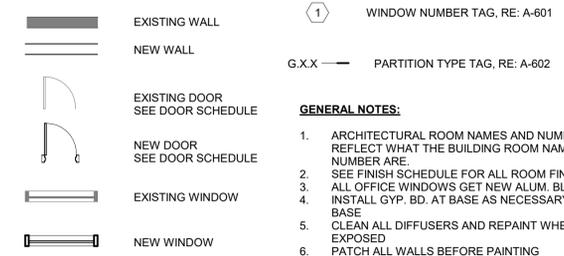
SHEET TITLE:
SHEET INDEX, SYMBOLS
& LEGENDS, MOUNTING
HEIGHTS &
ABBREVIATIONS

SHEET NUMBER:

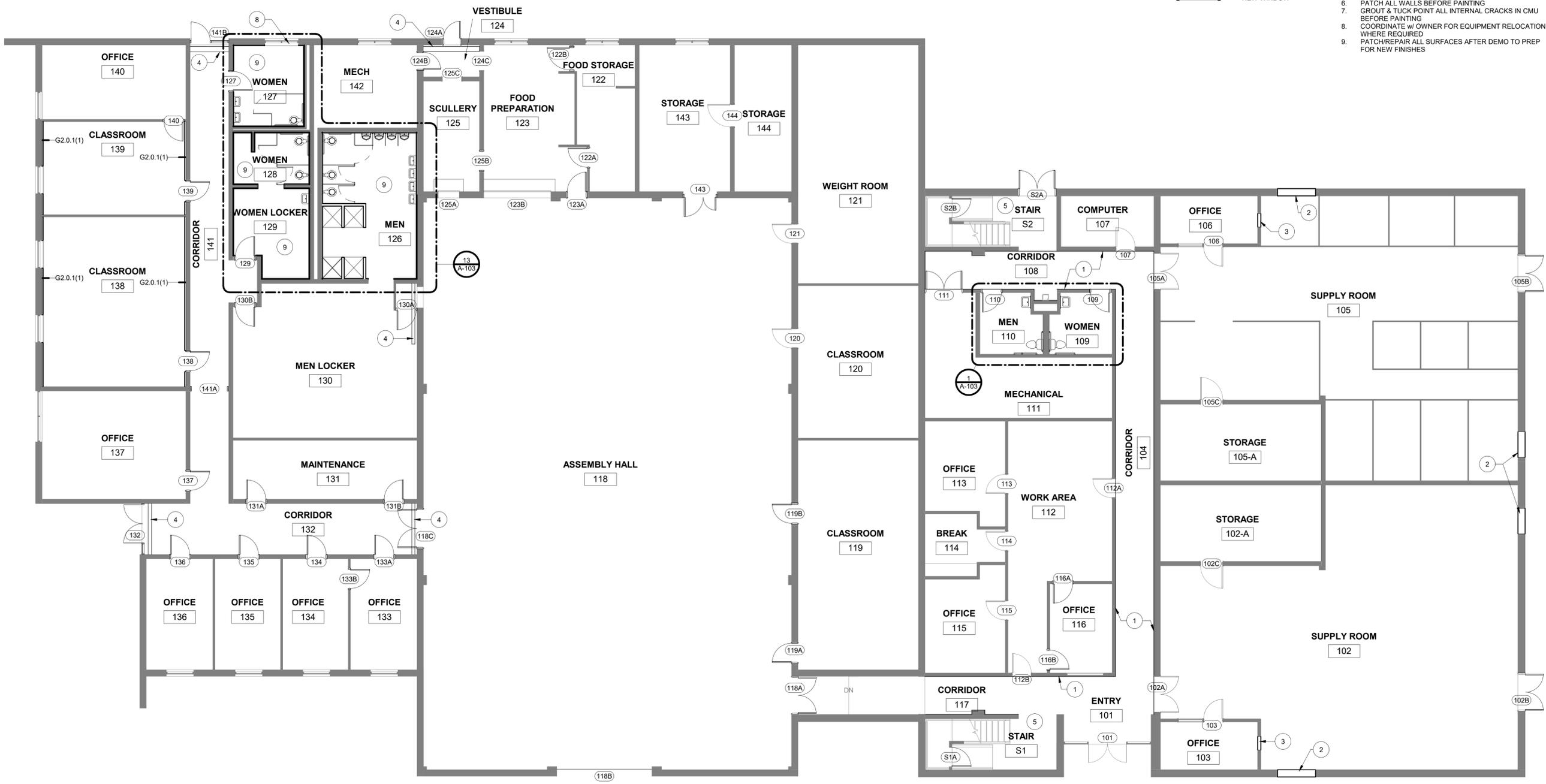
G-002

# PLAN NOTES	
NUMBER	NOTE
1	INSTALL 1/4" GYP. BD. ON WALL ABOVE BLOCK.
2	INFILL EXISTING OPENING WITH 8" CMU, 1 1/2" RIGID INSULATION AND BRICK TO MATCH EXISTING
3	INFILL EXISTING OPENING WITH GYP. BD. AND MTL. STUD TO MATCH EXISTING.
4	INSTALL NEW COVER PLATE.
5	PAINT RAILING AND EXPOSED METAL OF STAIRS.
6	PAINT COLUMNS.
7	ENCLOSE EXISTING CONDUITS.
8	INSTALL FROSTED FILM ON WINDOW
9	INSTALL 7/8" HAT CHANNELS AND 5/8" GYP. BD. ON ALL EXISTING WALLS FROM FLOOR TO CEILING OR 6" ABOVE

LEGEND



- GENERAL NOTES:**
1. ARCHITECTURAL ROOM NAMES AND NUMBERS DO NOT REFLECT WHAT THE BUILDING ROOM NAME AND NUMBER ARE.
 2. SEE FINISH SCHEDULE FOR ALL ROOM FINISHES.
 3. ALL OFFICE WINDOWS GET NEW ALUM. BLINDS.
 4. INSTALL GYP. BD. AT BASE AS NECESSARY FOR NEW BASE
 5. CLEAN ALL DIFFUSERS AND REPAINT WHEN RUST IS EXPOSED
 6. PATCH ALL WALLS BEFORE PAINTING
 7. GROUT & TUCK POINT ALL INTERNAL CRACKS IN CMU BEFORE PAINTING
 8. COORDINATE w/ OWNER FOR EQUIPMENT RELOCATION WHERE REQUIRED
 9. PATCH/REPAIR ALL SURFACES AFTER DEMO TO PREP FOR NEW FINISHES



STATE OF MISSOURI
MICHAEL L. PARSON
GOVERNOR



PROFESSIONAL SEAL



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RENOVATE EXTERIOR &
INTERIOR LEXINGTON
READINESS CENTER
408 S. 26TH STREET
LEXINGTON, MISSOURI

PROJECT #: T1906-01
SITE #: 6264
ASSET#: 8136264001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: DEC. 9, 2019

CAD DWG FILE:T1906-01-6264-A-101
DRAWN BY: AML
CHECKED BY: JKE
DESIGNED BY: JKE

SHEET TITLE:
LEVEL 1 FLOOR PLAN

SHEET NUMBER:

A-101

3 of 40 SHEETS

1 LEVEL 1 FLOOR PLAN
SCALE: 1/8" = 1'-0"



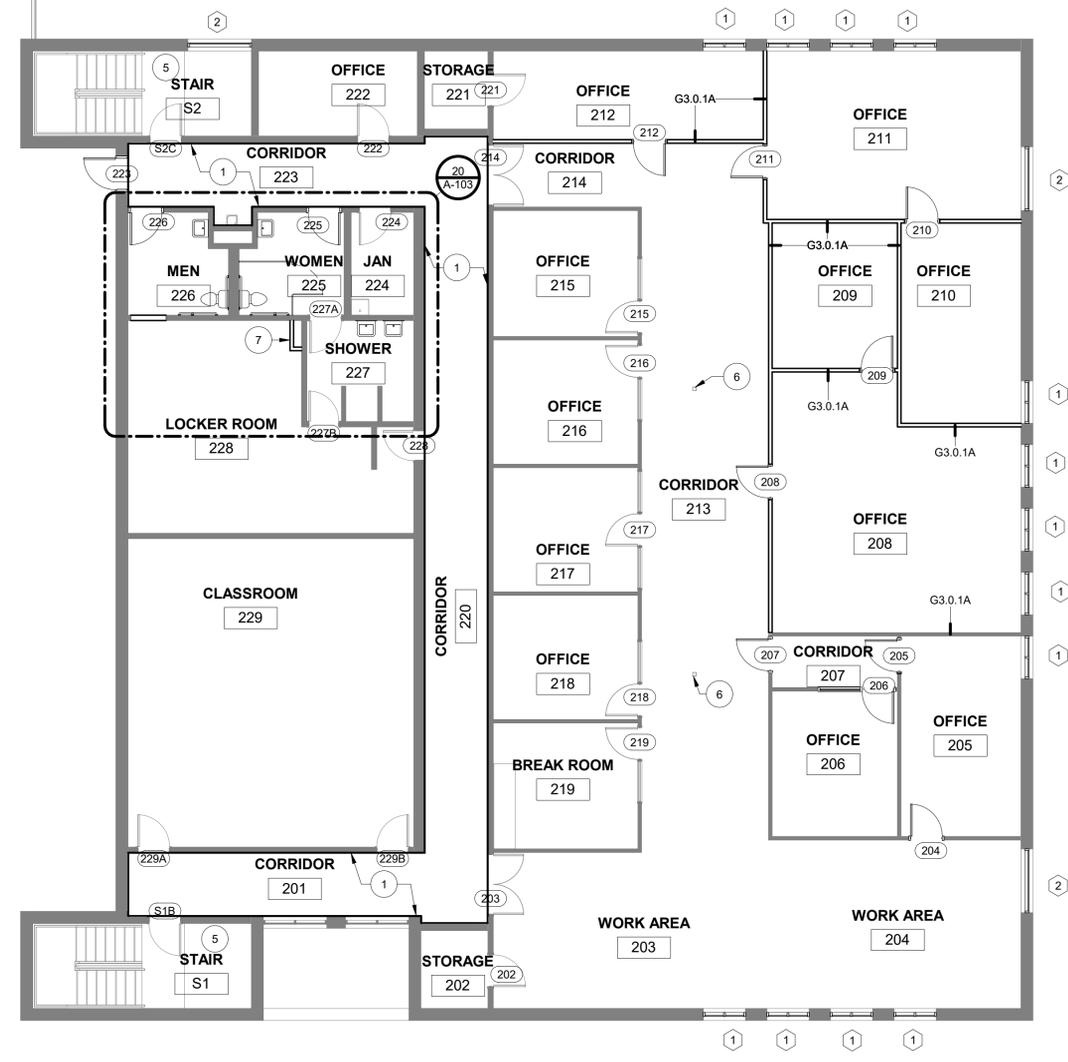
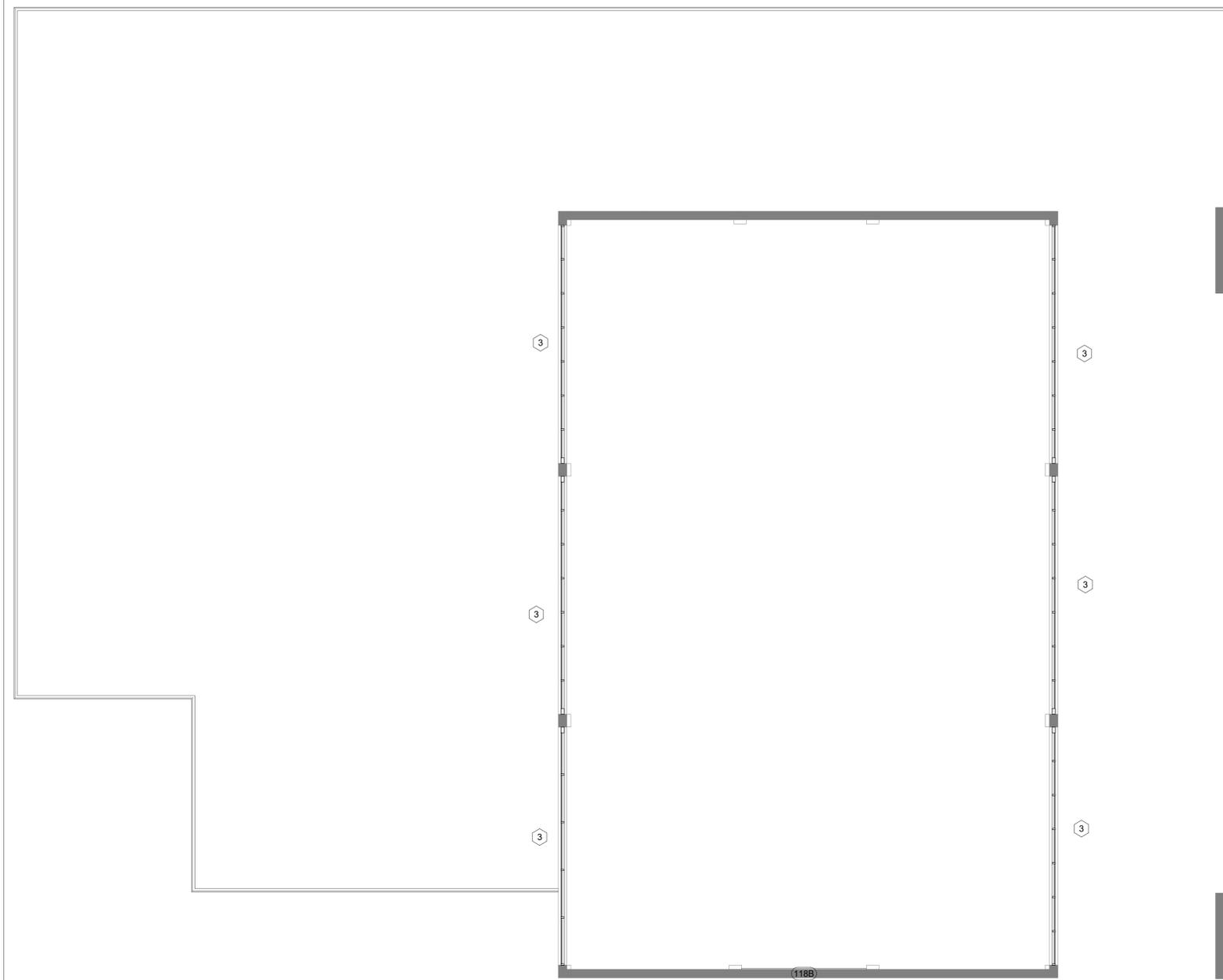
# PLAN NOTES	
NUMBER	NOTE
1	INSTALL 1/4" GYP. BD. ON WALL ABOVE BLOCK.
2	INFILL EXISTING OPENING WITH 8" CMU, 1 1/2" RIGID INSULATION AND BRICK TO MATCH EXISTING
3	INFILL EXISTING OPENING WITH GYP. BD. AND MTL. STUD TO MATCH EXISTING.
4	INSTALL NEW COVER PLATE.
5	PAINT RAILING AND EXPOSED METAL OF STAIRS.
6	PAINT COLUMNS.
7	ENCLOSE EXISTING CONDUITS.
8	INSTALL FROSTED FILM ON WINDOW
9	INSTALL 7/8" HAT CHANNELS AND 5/8" GYP. BD. ON ALL EXISTING WALLS FROM FLOOR TO CEILING OR 6" ABOVE

LEGEND

- EXISTING WALL
- NEW WALL
- EXISTING DOOR
SEE DOOR SCHEDULE
- NEW DOOR
SEE DOOR SCHEDULE
- EXISTING WINDOW
- NEW WINDOW
- WINDOW NUMBER TAG, RE: A-601
- PARTITION TYPE TAG, RE: A-602

GENERAL NOTES:

1. ARCHITECTURAL ROOM NAMES AND NUMBERS DO NOT REFLECT WHAT THE BUILDING ROOM NAME AND NUMBER ARE.
2. SEE FINISH SCHEDULE FOR ALL ROOM FINISHES.
3. ALL OFFICE WINDOWS GET NEW ALUM. BLINDS.
4. INSTALL GYP. BD. AT BASE AS NECESSARY FOR NEW BASE
5. CLEAN ALL DIFFUSERS AND REPAINT WHEN RUST IS EXPOSED
6. PATCH ALL WALLS BEFORE PAINTING
7. GROUT & TUCK POINT ALL INTERNAL CRACKS IN CMU BEFORE PAINTING
8. COORDINATE W/ OWNER FOR EQUIPMENT RELOCATION WHERE REQUIRED
9. PATCH/REPAIR ALL SURFACES AFTER DEMO TO PREP FOR NEW FINISHES



STATE OF MISSOURI
MICHAEL L. PARSON
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PROFESSIONAL SEAL



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LEXINGTON, MISSOURI

PROJECT #: T1906-01
SITE #: 6264
ASSET#: 8136264001

REVISION: _____
DATE: _____
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DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: DEC. 9, 2019

CAD DWG FILE:T1906-01-6264-A-102
DRAWN BY: AML
CHECKED BY: JKE
DESIGNED BY: JKE

SHEET TITLE:
LEVEL 2 FLOOR PLAN

SHEET NUMBER:

A-102

4 of 40 SHEETS



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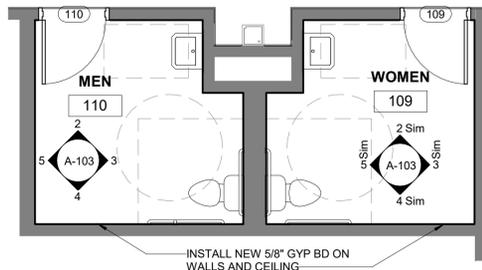
REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: DEC. 9, 2019

CAD DWG FILE:T1906-01-6264-A-103
DRAWN BY: AML
CHECKED BY: JKE
DESIGNED BY: JKE

SHEET TITLE:
ENLARGED FLOOR PLAN

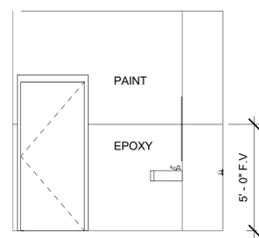
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A-103



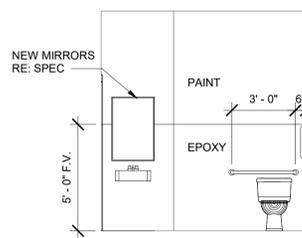
1 LEVEL 1 ENLARGED RESTROOM

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



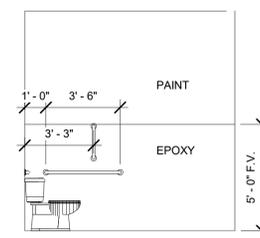
2 MEN 110 - NORTH,
WOMEN 111 - SIM

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



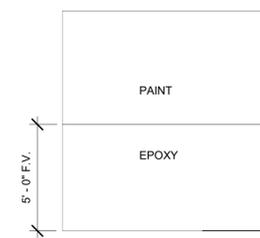
3 MEN 110 - EAST,
WOMEN 111 - SIM

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



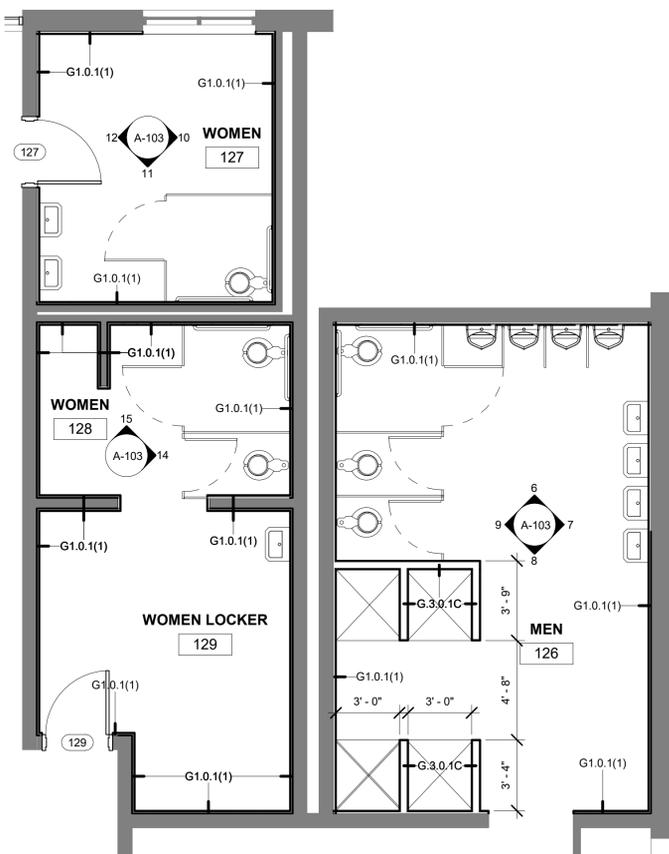
4 MEN 110 - SOUTH,
WOMEN 111 - SIM

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



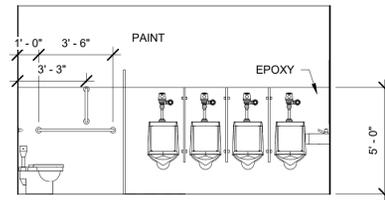
5 MEN 110 - WEST,
WOMEN 111 - SIM

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



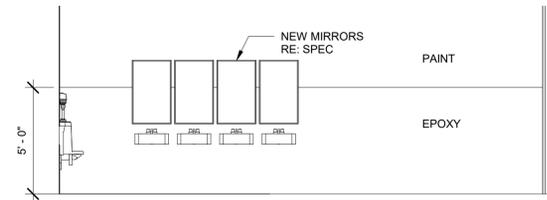
13 LEVEL 1 - ENLARGED LOCKER ROOM

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



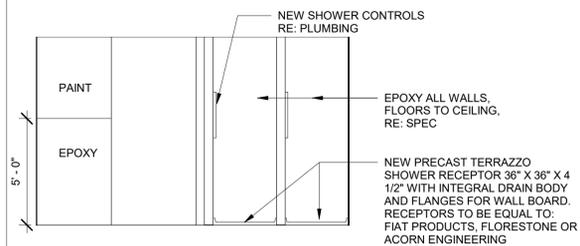
6 MEN 126 - NORTH

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



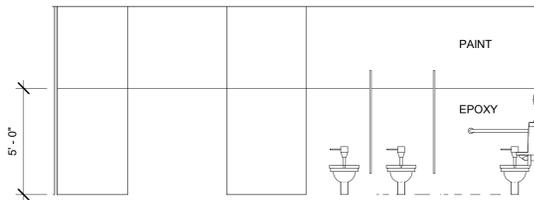
7 MEN 126 - EAST

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



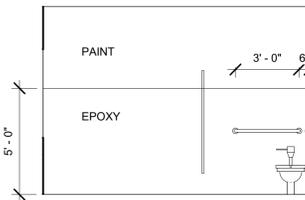
8 MEN 126 - SOUTH

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



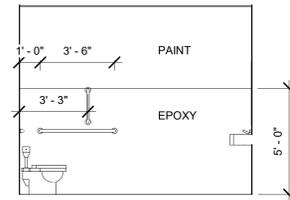
9 MEN 126 - WEST

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



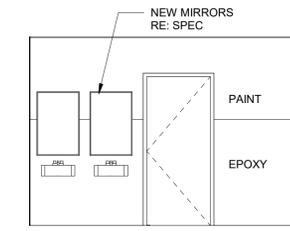
10 WOMEN 127 - EAST

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



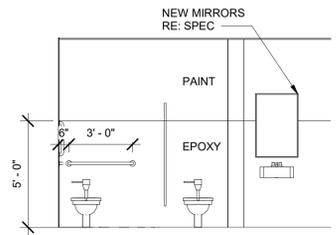
11 WOMEN 127 - SOUTH

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



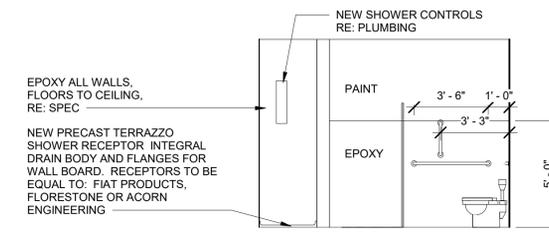
12 WOMEN 127 - WEST

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



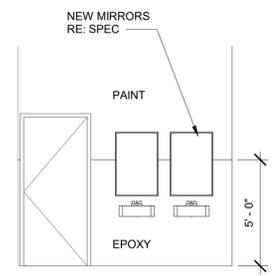
14 WOMEN 128 - EAST

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



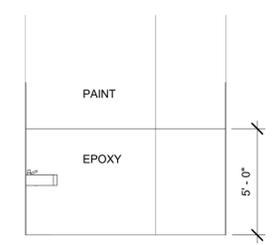
15 WOMEN 128 - NORTH

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



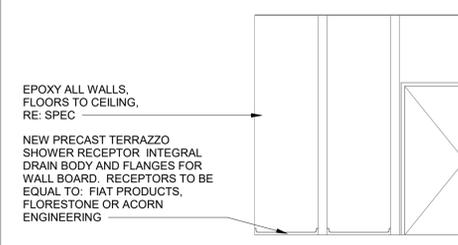
16 SHOWER 227 - NORTH

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



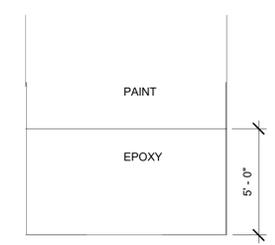
17 SHOWER 227 - EAST

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



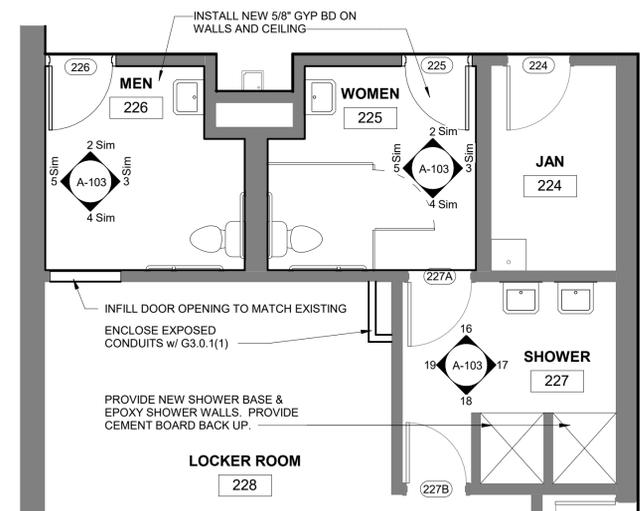
18 SHOWER 227 - SOUTH

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



19 SHOWER 227 - WEST

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



20 LEVEL 2 ENLARGED RESTROOM AND SHOWER

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



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CONSTRUCTION

MISSOURI NATIONAL GUARD

RENOVATE EXTERIOR &
INTERIOR LEXINGTON
READINESS CENTER
408 S. 26TH STREET
LEXINGTON, MISSOURI

PROJECT #: T1906-01
SITE #: 6264
ASSET#: 8136264001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

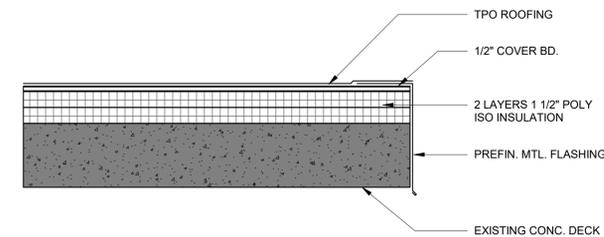
ISSUE DATE: DEC. 9, 2019

CAD DWG FILE: T1906-01-6264-A-201
DRAWN BY: AML
CHECKED BY: JKE
DESIGNED BY: JKE

SHEET TITLE:
ROOF PLAN -
ALTERNATE BID #1

SHEET NUMBER:

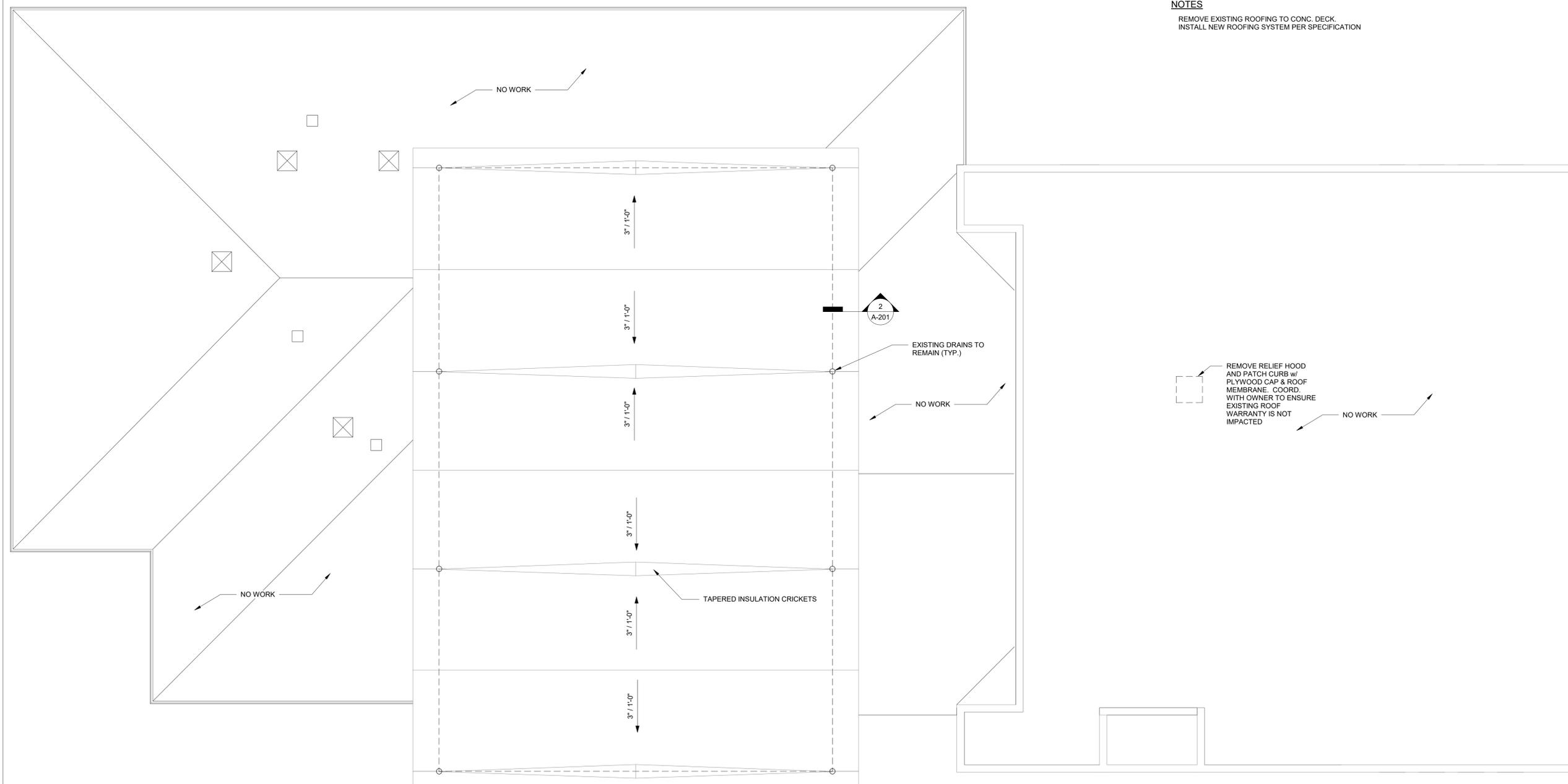
A-201



2 ROOF DETAIL
SCALE: 1 1/2" = 1'-0"

NOTES

REMOVE EXISTING ROOFING TO CONC. DECK.
INSTALL NEW ROOFING SYSTEM PER SPECIFICATION



1 ROOF PLAN - ALTERNATE BID #1
SCALE: 1/8" = 1'-0"





PROFESSIONAL SEAL



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ISSUE DATE: DEC. 9, 2019

CAD DWG FILE: T1906-01-6264-A-301
DRAWN BY: AML
CHECKED BY: JKE
DESIGNED BY: JKE

SHEET TITLE:
BUILDING ELEVATION

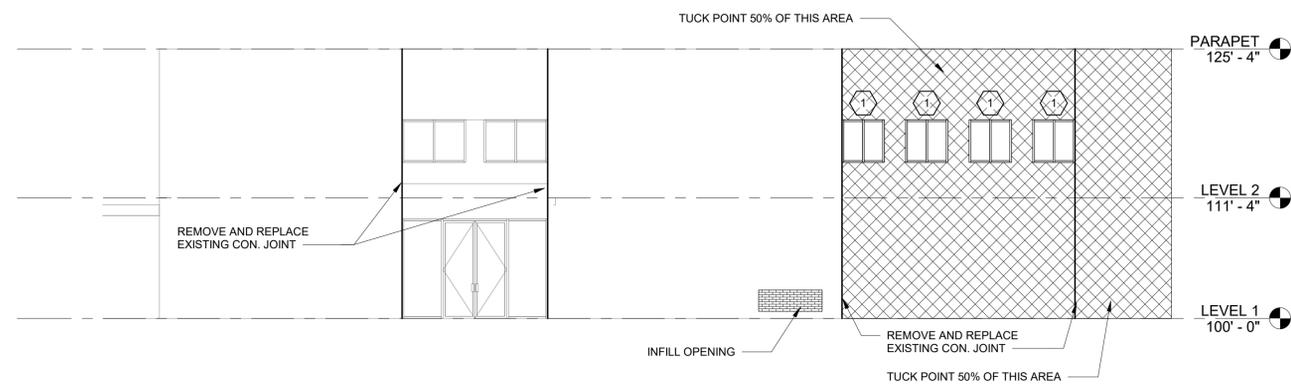
SHEET NUMBER:

A-301

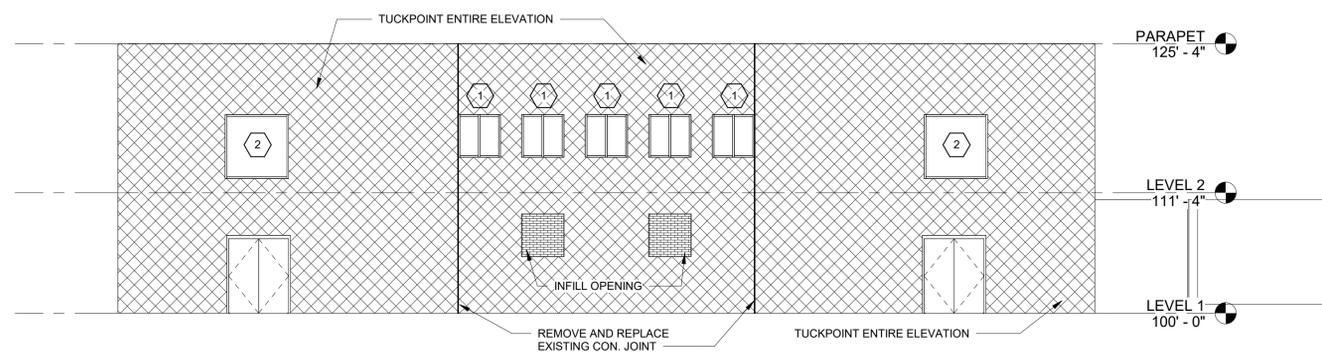
NOTES:

OPENING NOTED ① & ② SHALL REMAIN AND BE REGLAZED.

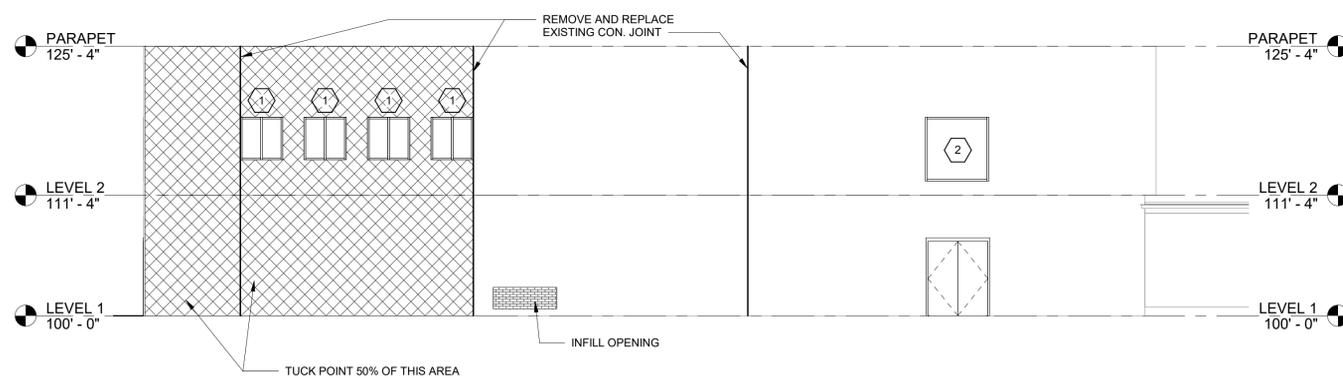
AREAS OF TUCK POINTING IN BASE BID:
SOUTH ELEVATION 725 SQFT
EAST ELEVATION 2065 SQFT
NORTH ELEVATION 725 SQFT
TOTAL 3515 SQFT



1 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



2 EAST ELEVATION
SCALE: 1/8" = 1'-0"

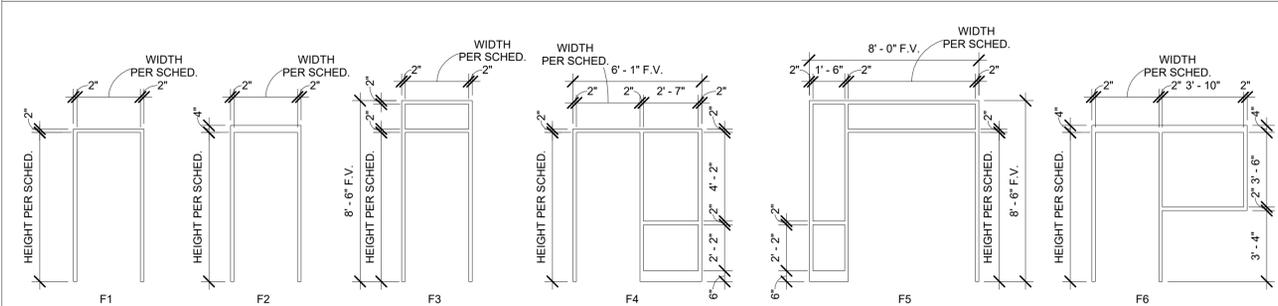


3 NORTH ELEVATION
SCALE: 1/8" = 1'-0"

DOOR SCHEDULE												
NUMBER	WIDTH	HEIGHT	THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	HARDWARE	FIRE RATING	COMMENTS
101	6'-0"	9'-2"	1 3/4"	ETR.	--	--	ETR.	--	--	--		NO WORK
102A	5'-8"	7'-0"	1 3/4"	ETR.	--	PAINT	ETR.	--	PAINT	ETR.		
102B	5'-8"	7'-0"	1 3/4"	D1	HM.	PAINT	F2	HM.	PAINT	SET 3		
102C	3'-6"	7'-0"	1 3/4"	ETR.	--	PAINT	ETR.	--	PAINT	ETR.		
103	3'-0"	7'-0"	1 3/4"	ETR.	--	PAINT	ETR.	--	PAINT	ETR.		
105A	5'-8"	7'-0"	1 3/4"	ETR.	--	PAINT	ETR.	--	PAINT	ETR.		
105B	5'-8"	7'-0"	1 3/4"	D1	HM.	PAINT	F2	HM.	PAINT	SET 3		
105C	3'-6"	7'-0"	1 3/4"	ETR.	--	PAINT	ETR.	--	PAINT	ETR.		
106	3'-0"	7'-0"	1 3/4"	ETR.	--	PAINT	ETR.	--	PAINT	ETR.		
107	3'-0"	7'-0"	1 3/4"	ETR.	ETR.	PAINT	ETR.	ETR.	PAINT	SET 1		
109	3'-0"	7'-0"	1 3/4"	D1	HM.	PAINT	F2	HM.	PAINT	SET 5		
110	3'-0"	7'-0"	1 3/4"	D1	HM.	PAINT	F2	HM.	PAINT	SET 5		
111	5'-8"	7'-0"	1 3/4"	D1	HM.	PAINT	F2	HM.	PAINT	SET 4		
112A	3'-0"	7'-0"	1 3/4"	ETR.	ETR.	PAINT	ETR.	ETR.	PAINT	SET 1		
112B	3'-0"	7'-0"	1 3/4"	ETR.	ETR.	PAINT	ETR.	ETR.	PAINT	SET 1		
113	3'-0"	7'-0"	1 3/4"	ETR.	ETR.	PAINT	ETR.	ETR.	PAINT	SET 1		
114	3'-0"	7'-0"	1 3/4"	ETR.	ETR.	PAINT	ETR.	ETR.	PAINT	SET 1		
115	3'-0"	7'-0"	1 3/4"	ETR.	ETR.	PAINT	ETR.	ETR.	PAINT	SET 1		
116A	3'-0"	7'-0"	1 3/4"	D3	HM.	PAINT	F2	HM.	PAINT	SET 1		
116B	3'-0"	7'-0"	1 3/4"	D3	HM.	PAINT	F2	HM.	PAINT	SET 1		
118A	5'-8"	7'-0"	1 3/4"	D2	HM.	PAINT	F1	HM.	PAINT	SET 6		
118B	15'-0"	14'-0"	1 1/2"	ETR.	ETR.	--	ETR.	ETR.	--	ETR.		REPLACE WEATHER STRIPPING.
118C	6'-0"	7'-0"	1 3/4"	D6	HM.	PAINT	F1	HM.	PAINT	SET 6		
119A	3'-0"	7'-0"	1 3/4"	D1	HM.	PAINT	F1	HM.	PAINT	SET 2		
119B	3'-0"	7'-0"	1 3/4"	D1	HM.	PAINT	F1	HM.	PAINT	SET 2		
120	3'-0"	7'-0"	1 3/4"	ETR.	ETR.	PAINT	ETR.	ETR.	PAINT	ETR.		
121	3'-0"	7'-0"	1 3/4"	ETR.	ETR.	PAINT	ETR.	ETR.	PAINT	ETR.		
122A	3'-0"	7'-0"	1 3/4"	D7	HM.	PAINT	ETR.	HM.	PAINT	SET 4		
122B	3'-6"	7'-0"	1 3/4"	D7	HM.	PAINT	ETR.	HM.	PAINT	SET 4		
123A	3'-0"	7'-7"	1 3/4"	D2	HM.	PAINT	F1	HM.	PAINT	SET 2		PROVIDE 24" x 24" LOUVER IN DOOR
123B	10'-7"	4'-9"	1 1/2"	ETR.	ETR.	--	ETR.	ETR.	--	ETR.		NO WORK
124A	2'-8"	7'-0"	1 3/4"	D1	HM.	PAINT	F2	HM.	PAINT	SET 3		
124B	2'-8"	7'-0"	1 3/4"	D1	HM.	PAINT	F2	HM.	PAINT	SET 4		
124C	3'-0"	7'-0"	1 3/4"	--	--	ETR.	--	--	PAINT	--		PATCH FRAME
125A	3'-4"	4'-5"	1 1/2"	ETR.	ETR.	--	ETR.	ETR.	--	--		NO WORK
125B	3'-0"	8'-8"	1 3/4"	--	--	--	F1	HM.	PAINT	--		
125C	3'-0"	7'-0"	1 3/4"	--	--	--	ETR.	--	PAINT	--		PATCH FRAME
127	3'-0"	7'-0"	1 3/4"	D1	HM.	PAINT	F3	HM.	PAINT	SET 5		
129	3'-0"	7'-0"	1 3/4"	D7	HM.	PAINT	F3	HM.	PAINT	SET 6		
130A	3'-0"	7'-0"	1 3/4"	D3	HM.	PAINT	F3	HM.	PAINT	SET 6		
130B	3'-0"	7'-0"	1 3/4"	D3	HM.	PAINT	F3	HM.	PAINT	SET 6		
131A	3'-0"	7'-0"	1 3/4"	D1	HM.	PAINT	F3	HM.	PAINT	SET 1		
131B	3'-0"	7'-0"	1 3/4"	D1	HM.	PAINT	F3	HM.	PAINT	SET 1		
132	6'-0"	7'-0"	1 3/4"	D2	HM.	PAINT	F5	HM.	PAINT	SET 3		
133A	3'-0"	7'-0"	1 3/4"	D3	HM.	PAINT	F3	HM.	PAINT	SET 1		
133B	3'-0"	7'-0"	1 3/4"	D1	HM.	PAINT	F3	HM.	PAINT	SET 1		

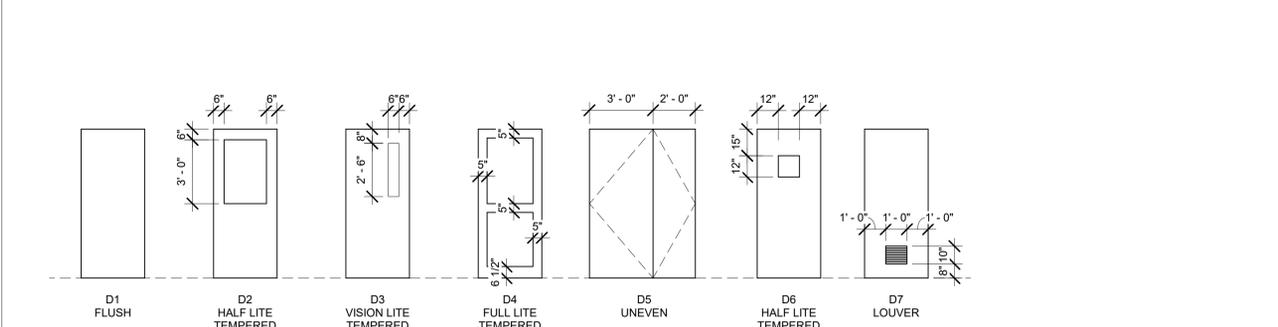
DOOR SCHEDULE												
NUMBER	WIDTH	HEIGHT	THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	HARDWARE	FIRE RATING	COMMENTS
134	3'-0"	7'-0"	1 3/4"	D3	HM.	PAINT	F3	HM.	PAINT	SET 1		
135	3'-0"	7'-0"	1 3/4"	D3	HM.	PAINT	F3	HM.	PAINT	SET 1		
136	3'-0"	7'-0"	1 3/4"	D3	HM.	PAINT	F3	HM.	PAINT	SET 1		
137	3'-0"	7'-0"	1 3/4"	D3	HM.	PAINT	F3	HM.	PAINT	SET 1		
138	3'-0"	7'-0"	1 3/4"	D3	HM.	PAINT	F3	HM.	PAINT	SET 1		
139	3'-0"	7'-0"	1 3/4"	D3	HM.	PAINT	F3	HM.	PAINT	SET 1		
140	3'-0"	7'-0"	1 3/4"	D3	HM.	PAINT	F1	HM.	PAINT	SET 1		
141A	5'-8"	7'-0"	1 3/4"	--	--	--	ETR.	ETR.	PAINT	--		PATCH FRAME
141B	3'-0"	7'-0"	1 3/4"	D1	HM.	PAINT	F4	HM.	PAINT	SET 3		
143	5'-0"	7'-0"	1 3/4"	D5	HM.	PAINT	F3	HM.	PAINT	SET 4		
144	3'-6"	7'-0"	1 3/4"	ETR.	ETR.	--	ETR.	ETR.	--	ETR.		NO WORK
202	3'-0"	7'-0"	1 3/4"	ETR.	ETR.	PAINT	ETR.	ETR.	PAINT	SET 4		
203	5'-8"	7'-0"	1 3/4"	D2	HM.	PAINT	F2	HM.	PAINT	SET 1		
204	3'-0"	7'-0"	1 3/4"	D3	HM.	PAINT	F2	HM.	PAINT	SET 1		
205	3'-0"	7'-0"	1 3/4"	D3	HM.	PAINT	F2	HM.	PAINT	SET 1		
206	3'-0"	7'-0"	1 3/4"	D3	HM.	PAINT	ETR.	HM.	PAINT	SET 1		REUSE EXISTING FRAME AND DOOR PANEL
207	3'-0"	7'-0"	1 3/4"	D3	HM.	PAINT	F2	HM.	PAINT	SET 1		
208	3'-0"	7'-0"	1 3/4"	D3	HM.	PAINT	F2	HM.	PAINT	SET 1		
209	3'-0"	7'-0"	1 3/4"	D3	HM.	PAINT	F2	HM.	PAINT	SET 1		
210	3'-0"	7'-0"	1 3/4"	D3	HM.	PAINT	F2	HM.	PAINT	SET 1		
211	3'-0"	7'-0"	1 3/4"	D3	HM.	PAINT	F2	HM.	PAINT	SET 1		
212	3'-0"	7'-0"	1 3/4"	D3	HM.	PAINT	F2	HM.	PAINT	SET 1		
214	5'-8"	7'-0"	1 3/4"	D2	HM.	PAINT	F2	HM.	PAINT	SET 1		
215	3'-0"	7'-0"	1 3/4"	ETR.	ETR.	PAINT	ETR.	ETR.	PAINT	SET 1		
216	3'-0"	7'-0"	1 3/4"	ETR.	ETR.	PAINT	ETR.	ETR.	PAINT	SET 1		
217	3'-0"	7'-0"	1 3/4"	ETR.	ETR.	PAINT	ETR.	ETR.	PAINT	SET 1		
218	3'-0"	7'-0"	1 3/4"	ETR.	ETR.	PAINT	ETR.	ETR.	PAINT	SET 1		
219	3'-0"	7'-0"	1 3/4"	ETR.	ETR.	PAINT	ETR.	ETR.	PAINT	SET 1		
221	3'-0"	7'-0"	1 3/4"	ETR.	ETR.	PAINT	ETR.	ETR.	PAINT	SET 4		
222	3'-0"	7'-0"	1 3/4"	ETR.	ETR.	PAINT	ETR.	ETR.	PAINT	SET 1		
223	3'-0"	7'-0"	1 3/4"	D1	HM.	PAINT	F2	HM.	PAINT	SET 3		
224	3'-0"	7'-0"	1 3/4"	D1	HM.	PAINT	F2	HM.	PAINT	SET 4		
225	3'-0"	7'-0"	1 3/4"	D1	HM.	PAINT	F2	HM.	PAINT	SET 6		
226	3'-0"	7'-0"	1 3/4"	D1	HM.	PAINT	F2	HM.	PAINT	SET 6		
227A	3'-0"	7'-0"	1 3/4"	ETR.	ETR.	PAINT	ETR.	ETR.	PAINT	SET 6		
227B	2'-10"	7'-0"	1 3/4"	ETR.	ETR.	PAINT	ETR.	ETR.	PAINT	SET 6		
228	2'-10"	7'-0"	1 3/4"	ETR.	ETR.	PAINT	ETR.	ETR.	PAINT	SET 5		
229A	3'-0"	7'-0"	1 3/4"	ETR.	ETR.	PAINT	ETR.	ETR.	PAINT	SET 2		
229B	3'-0"	7'-0"	1 3/4"	ETR.	ETR.	PAINT	ETR.	ETR.	PAINT	SET 2		
S1A	3'-0"	5'-9"	1 3/4"	D1	HM.	PAINT	F1	HM.	PAINT	SET 4		
S1B	3'-0"	7'-0"	1 3/4"	D6	HM.	PAINT	F2	HM.	PAINT	SET 6	2 HR	
S2A	5'-8"	7'-0"	1 3/4"	D1	HM.	PAINT	F2	HM.	PAINT	SET 3		
S2B	3'-0"	5'-9"	1 3/4"	D1	HM.	PAINT	F1	HM.	PAINT	SET 4		
S2C	3'-0"	7'-0"	1 3/4"	D6	HM.	PAINT	F2	HM.	PAINT	SET 6	2 HR	

*213 NOT USED



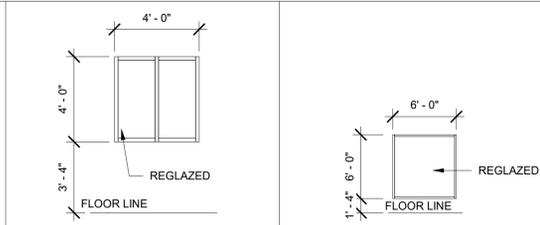
DOOR FRAME TYPE ELEVATIONS

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



DOOR TYPE ELEVATIONS

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

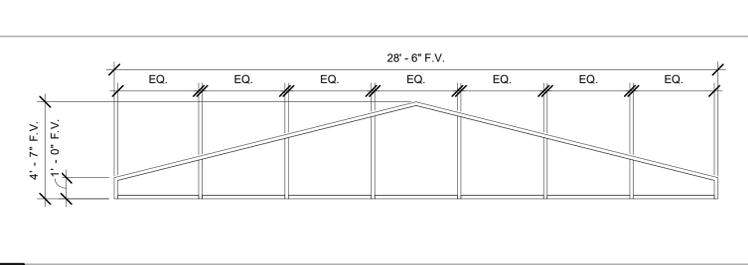


1 EXISTING WINDOW 2 EXISTING WINDOW

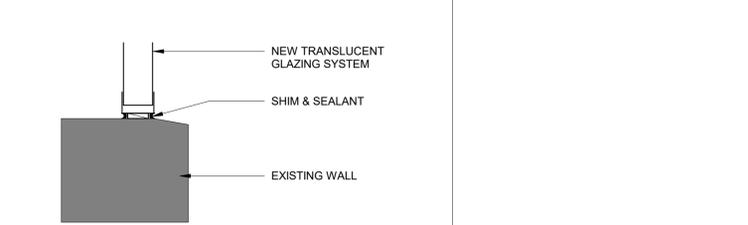
WINDOW NOTES:
 1. EXISTING FRAMES & SASHES ARE OPERABLE AND ARE TO REMAIN.
 2. REPLACE GLAZING PER SPECIFICATION. ON UNITS NOTED (1) & (2)
 3. REMOVE EXISTING GLAZING & FRAMES NOTES (3), REPLACE WITH NEW TRANSLUCENT WALL ASSEMBLY PER SPECIFICATION. RE: DTL 3 & 5 ON A-601

HARDWARE NOTES:
 1. PROVIDE KICK PLATES AT ALL DOORS.
 2. F.V. ALL DIMENSION.

HARDWARE SETS:
 SET 1: "OFFICE" PROVIDE LOCKSET, HINGES AND STOP
 SET 2: "CLASSROOM" PROVIDE LOCKSET, HINGES, STOP AND CLOSER
 SET 3: "EXIT" PROVIDE EXIT DEVICE, EXTERIOR TRIM, HINGES, STOP, CLOSER, THRESHOLD, WEATHER STRIP, REMOVABLE MULL AND BOLTS AT PAIRS
 SET 4: "STORE ROOM" PROVIDE LOCKSET, HINGES, STOPS, CLOSER AND FLUSH BOLTS AT PAIRS
 SET 5: "PRIVACY" PROVIDE LOCKSET, HINGES AND STOPS
 SET 6: "LATRINE" PROVIDE PUSH/PULL, HINGES, CLOSER AND STOPS
 SET 7: "PASSAGE" PROVIDE LOCKSET, HINGES AND STOPS



3 ALUMINUM (TRANSLUCENT GLAZING)



5 TRANSLUCENT DETAIL
 SCALE: 1 1/2" = 1'-0" JAMB & HEAD SIMILAR



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ea

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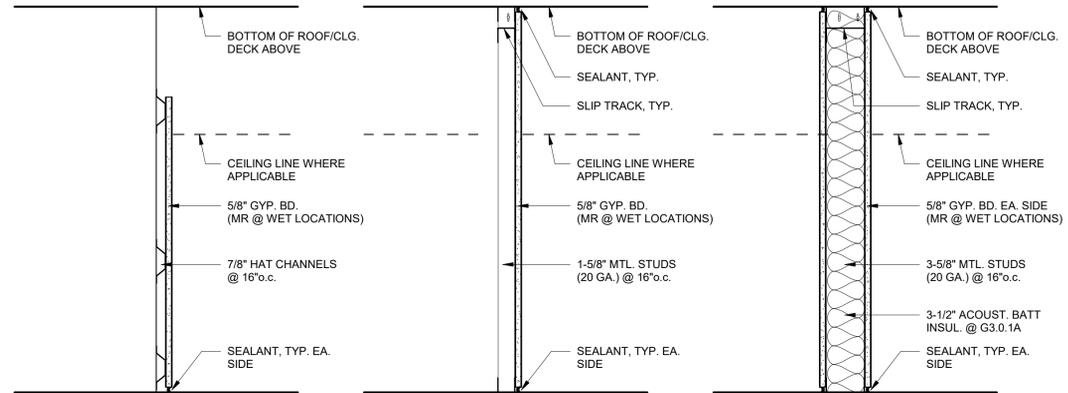
CAD DWG FILE:T1906-01-6264-A-601
 DRAWN BY: AML
 CHECKED BY: JKE
 DESIGNED BY: JKE

SHEET TITLE:
 DOOR SCHEDULE AND
 DETAILS

SHEET NUMBER:

A-601

FINISH SCHEDULE								COMMENTS
NUMBER	NAME	FLOOR FINISH	BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	
101	ENTRY	VCT	ETR.	PAINT	PAINT	PAINT	PAINT	
102	SUPPLY ROOM	ETR.	--	--	PAINT	--	--	SCRAPE & TUCKPOINT WALL @ WATER DAMGED AREA BEFORE PAINTING.
102-A	STORAGE							
103	OFFICE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
104	CORRIDOR	VCT	ETR.	PAINT	PAINT	PAINT	PAINT	
105	SUPPLY ROOM	ETR.	--	--	PAINT	--	--	SCRAPE & TUCKPOINT WALL @ WATER DAMGED AREA BEFORE PAINTING.
105-A	STORAGE							
106	OFFICE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
107	COMPUTER	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
108	CORRIDOR	VCT	ETR.	PAINT	PAINT	PAINT	PAINT	
109	WOMEN	EPOXY	EPOXY	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	SEE INTERIOR ELEVATION FOR EPOXY/PAINT LIMITS
110	MEN	EPOXY	EPOXY	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	SEE INTERIOR ELEVATION FOR EPOXY/PAINT LIMITS
111	MECHANICAL	ETR.	--	--	--	--	--	
112	WORK AREA	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
113	OFFICE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
114	BREAK	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
115	OFFICE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
116	OFFICE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
117	CORRIDOR	VCT	ETR./RUBBER	PAINT	PAINT	PAINT	PAINT	
118	ASSEMBLY HALL	ETR.	PAINT	PAINT	PAINT	PAINT	PAINT	PAINT FROM FLOOR TO 4'-8" A.F.F.
119	CLASSROOM	ETR.	ETR.	--	--	--	--	
120	CLASSROOM	ETR.	ETR.	--	--	--	--	
121	WEIGHT ROOM	ETR.	ETR.	--	--	--	--	
122	FOOD STORAGE	EPOXY	EPOXY	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	EPOXY 7'-0" A.F.F. (F.V.) PAINT TO CEILING
123	FOOD PREPARATION	EPOXY	EPOXY	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	EPOXY 7'-0" A.F.F. (F.V.) PAINT TO CEILING
124	VESTIBULE	EPOXY	EPOXY	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	EPOXY 7'-0" A.F.F. (F.V.) PAINT TO CEILING
125	SCULLERY	EPOXY	EPOXY	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	EPOXY 7'-0" A.F.F. (F.V.) PAINT TO CEILING
126	MEN	EPOXY	EPOXY	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	SEE INTERIOR ELEVATION FOR EPOXY/PAINT LIMITS
127	WOMEN	EPOXY	EPOXY	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	SEE INTERIOR ELEVATION FOR EPOXY/PAINT LIMITS
128	WOMEN	EPOXY	EPOXY	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	SEE INTERIOR ELEVATION FOR EPOXY/PAINT LIMITS
129	WOMEN LOCKER	EPOXY	EPOXY	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	SEE INTERIOR ELEVATION FOR EPOXY/PAINT LIMITS
130	MEN LOCKER	ETR.	PAINT	PAINT	PAINT	PAINT	PAINT	
131	MAINTENANCE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
132	CORRIDOR	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
133	OFFICE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
134	OFFICE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
135	OFFICE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
136	OFFICE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
137	OFFICE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
138	CLASSROOM	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
139	CLASSROOM	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
140	OFFICE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
141	CORRIDOR	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
142	MECH							
143	STORAGE							
144	STORAGE							
201	CORRIDOR	VCT	--	PAINT	PAINT	PAINT	PAINT	
202	STORAGE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
203	WORK AREA	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
204	WORK AREA	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
205	OFFICE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
206	OFFICE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
207	CORRIDOR	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
208	OFFICE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
209	OFFICE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
210	OFFICE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
211	OFFICE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
212	OFFICE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
213	CORRIDOR	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
214	CORRIDOR	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
215	OFFICE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
216	OFFICE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
217	OFFICE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
218	OFFICE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
219	BREAK ROOM	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
220	CORRIDOR	VCT	--	PAINT	PAINT	PAINT	PAINT	
221	STORAGE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
222	OFFICE	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
223	CORRIDOR	VCT	--	PAINT	PAINT	PAINT	PAINT	
224	JAN	ETR.	ETR.	PAINT	PAINT	PAINT	PAINT	
225	WOMEN	EPOXY	EPOXY	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	
226	MEN	EPOXY	EPOXY	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	
227	SHOWER	EPOXY	EPOXY	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	EPOXY/PAINT	
228	LOCKER ROOM	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
229	CLASSROOM	VCT	RUBBER	PAINT	PAINT	PAINT	PAINT	
S1	STAIR	RUBBER	ETR.	PAINT	PAINT	PAINT	PAINT	
S2	STAIR	RUBBER	ETR.	PAINT	PAINT	PAINT	PAINT	



G1.0	FIRE RATING: 0 HR.	UL #: N/A	G2.0	FIRE RATING: 0 HR.	UL #: N/A	G3.0	FIRE RATING: 0 HR.	UL #: N/A
G1.0.1(1)	7/8" HAT CHANNELS w/ GYP. ONE SIDE		G2.0.1(1)	1-5/8" METAL STUDS		G3.0.1	3-5/8" METAL STUDS	
						G3.0.1A	3-5/8" METAL STUDS w/ ACOUST. INSUL.	
						G3.0.1C	3-5/8" METAL STUDS w/ CEMENT BD.	

1 WALL TYPES
SCALE: 1 1/2" = 1'-0"

STATE OF MISSOURI
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408 S. 26TH STREET
LEXINGTON, MISSOURI

PROJECT #: T1906-01
SITE #: 6264
ASSET#: 8136264001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: DEC. 9, 2019

CAD DWG FILE:T1906-01-6264-A-602
DRAWN BY: AML
CHECKED BY: JKE
DESIGNED BY: JKE

SHEET TITLE:
FINISH SCHEDULE AND
DETAILS

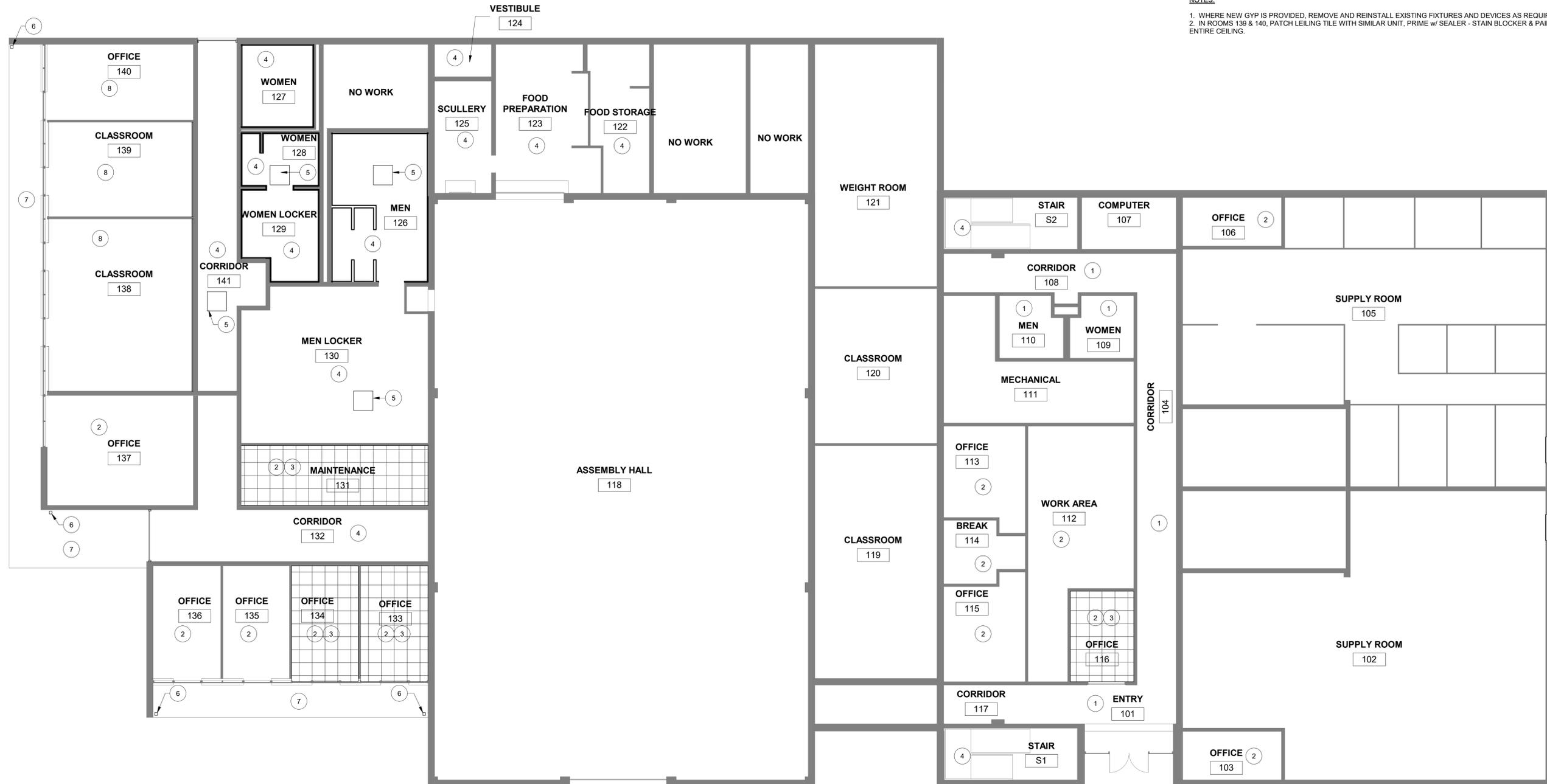
SHEET NUMBER:

A-602

# CEILING NOTES	
NUMBER	NOTE
1	INSTALL 1/4" GYP. BD. ON CEILING
2	INSTALL NEW 2X2 ACOUST. CEILING TILE IN EXISTING GRID
3	INSTALL NEW CEILING GRID
4	PREP & PAINT EXISTING CEILING
5	INFILL EXISTING SKYLIGHT OPENING. SEE SKYLIGHT DETAIL #2 & 3, SHEET A-702
6	INFILL EXISTING DOWN SPOUT OPENING WITH 5/8" EXT. GRADE PLYWD
7	PREP AND PAINT SOFFIT, PATCH ALL HOLES IN SOFFIT
8	PATCH CEILING AND PAINT

NOTES:

- WHERE NEW GYP IS PROVIDED, REMOVE AND REINSTALL EXISTING FIXTURES AND DEVICES AS REQUIRED.
- IN ROOMS 139 & 140, PATCH CEILING TILE WITH SIMILAR UNIT, PRIME w/ SEALER - STAIN BLOCKER & PAINT ENTIRE CEILING.



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REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: DEC. 9, 2019

CAD DWG FILE:T1906-01-6264-A-701
DRAWN BY: AML
CHECKED BY: JKE
DESIGNED BY: JKE

SHEET TITLE:
NEW LEVEL 1
REFLECTED CEILING
PLAN

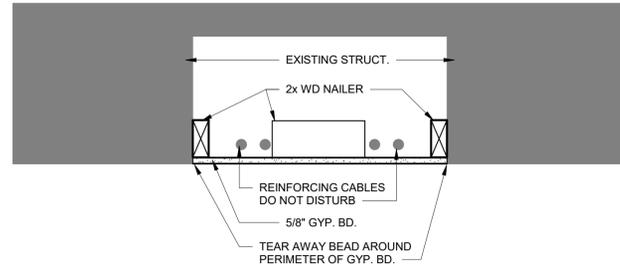
SHEET NUMBER:

A-701

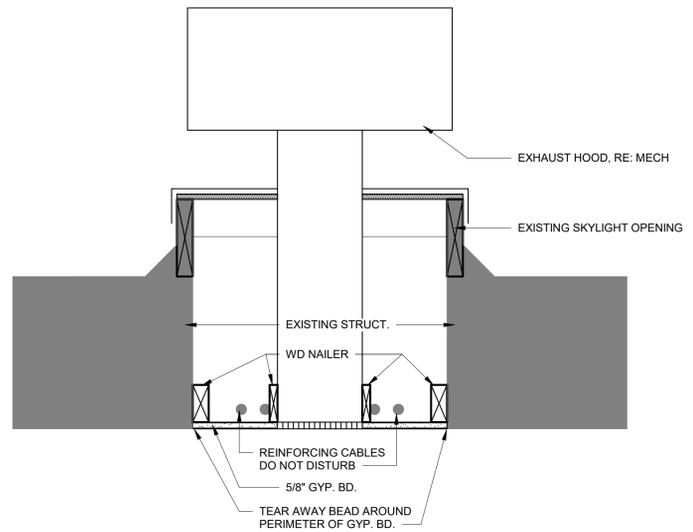


1 NEW LEVEL 1 REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"



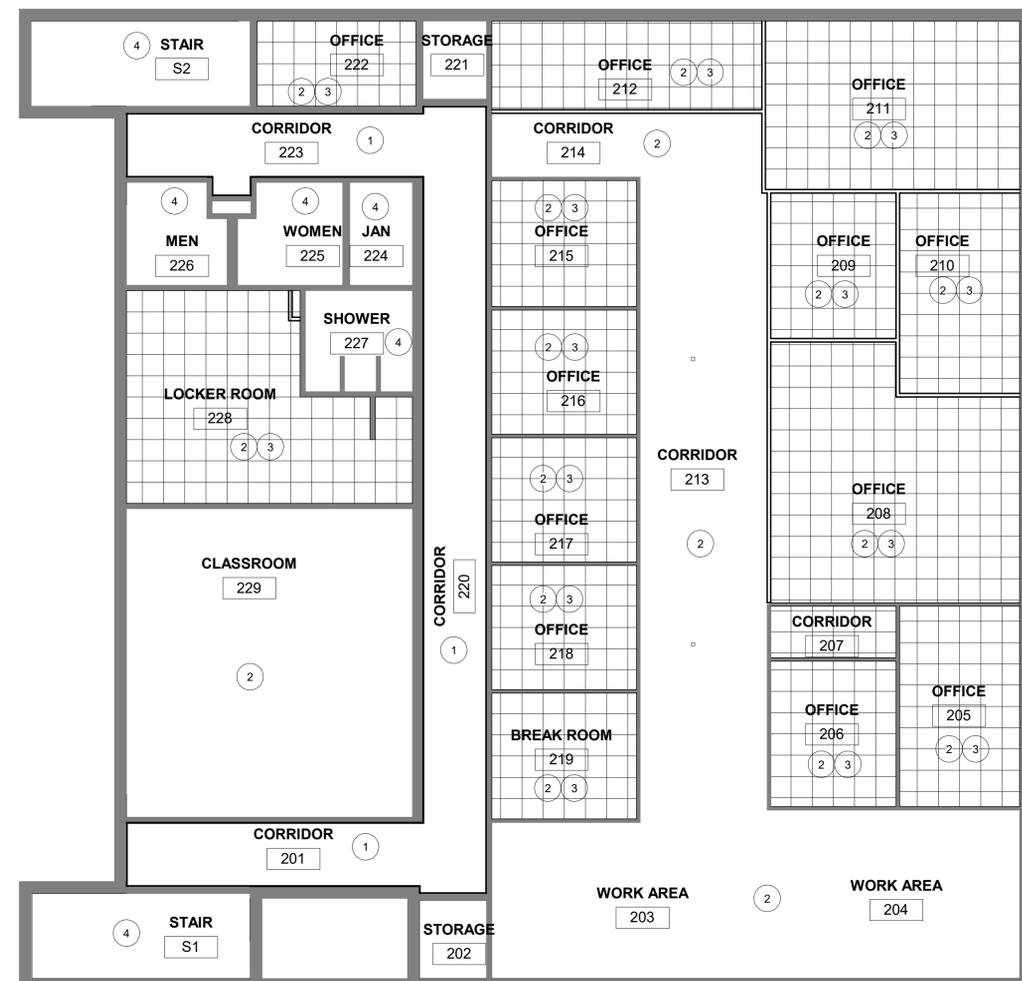
2 SKYLIGHT DETAIL
SCALE: 1 1/2" = 1'-0"



3 SKYLIGHT DETAIL EXHAUST FAN
SCALE: 1 1/2" = 1'-0"

#	CEILING NOTES
NUMBER	NOTE
1	INSTALL 1/4" GYP. BD. ON CEILING
2	INSTALL NEW 2X2 ACOUST. CEILING TILE IN EXISTING GRID
3	INSTALL NEW CEILING GRID
4	PREP & PAINT EXISTING CEILING
5	INFILL EXISTING SKYLIGHT OPENING. SEE SKYLIGHT DETAIL #2 & 3, SHEET A-702
6	INFILL EXISTING DOWN SPOUT OPENING WITH 5/8" EXT. GRADE PLYWD
7	PREP AND PAINT SOFFIT, PATCH ALL HOLES IN SOFFIT
8	PATCH CEILING AND PAINT

NOTES:
1. WHERE NEW GYP IS PROVIDED, REMOVE AND REINSTALL EXISTING FIXTURES AND DEVICES AS REQUIRED.
2. IN ROOMS 139 & 140, PATCH CEILING TILE WITH SIMILAR UNIT, PRIME w/ SEALER - STAIN BLOCKER & PAINT ENTIRE CEILING.



1 NEW LEVEL 2 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

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ASSET#: 8136264001

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DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: DEC. 9, 2019

CAD DWG FILE:T1906-01-6264-A-702
DRAWN BY: AML
CHECKED BY: JKE
DESIGNED BY: JKE

SHEET TITLE:
NEW LEVEL 2
REFLECTED CEILING
PLAN

SHEET NUMBER:

A-702



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DATE: _____
ISSUE DATE: DEC. 9, 2019

CAD DWG FILE:T1906-01-6264-D-101
DRAWN BY: AML
CHECKED BY: JKE
DESIGNED BY: JKE

SHEET TITLE:
DEMOLITION LEVEL 1

SHEET NUMBER:

D-101

12 of 40 SHEETS

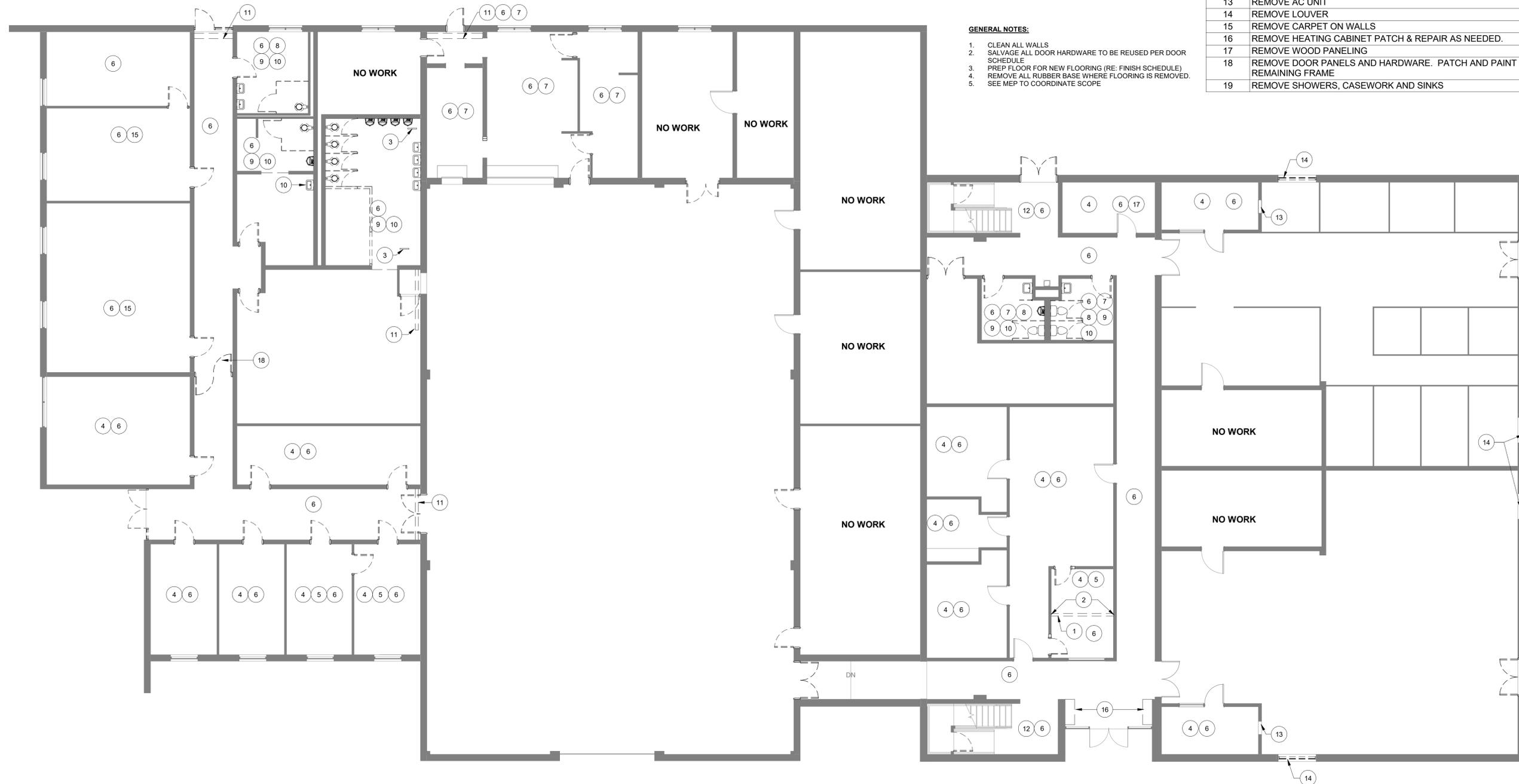
DEMOLITION LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE REMOVED
- EXISTING WINDOW TO REMAIN
- EXISTING WINDOW TO BE RE-GLAZED

GENERAL NOTES:

1. CLEAN ALL WALLS
2. SALVAGE ALL DOOR HARDWARE TO BE REUSED PER DOOR SCHEDULE
3. PREP FLOOR FOR NEW FLOORING (RE: FINISH SCHEDULE)
4. REMOVE ALL RUBBER BASE WHERE FLOORING IS REMOVED.
5. SEE MEP TO COORDINATE SCOPE

#	DEMOLITION NOTES
NUMBER	Note text
1	REMOVE BULKHEAD
2	REMOVE TRIM AND CAULKING. PATCH WALL TO MATCH EXISTING
3	REMOVE BRACKET ON CEILING
4	REMOVE CEILING TILE
5	REMOVE CEILING GRID
6	REMOVE FLOORING
7	REMOVE WALL TILE
8	REMOVE GYP. BD. ON WALLS & CEILING
9	REMOVE TOILET PARTITIONS AND ACCESSORIES
10	REMOVE PLUMBING FIXTURES. (RE: MECHANICAL)
11	REMOVE PLATE ON FLOOR
12	REMOVE STAIR TREADS & LANDING FINISH
13	REMOVE AC UNIT
14	REMOVE LOUVER
15	REMOVE CARPET ON WALLS
16	REMOVE HEATING CABINET PATCH & REPAIR AS NEEDED.
17	REMOVE WOOD PANELING
18	REMOVE DOOR PANELS AND HARDWARE. PATCH AND PAINT REMAINING FRAME
19	REMOVE SHOWERS, CASEWORK AND SINKS



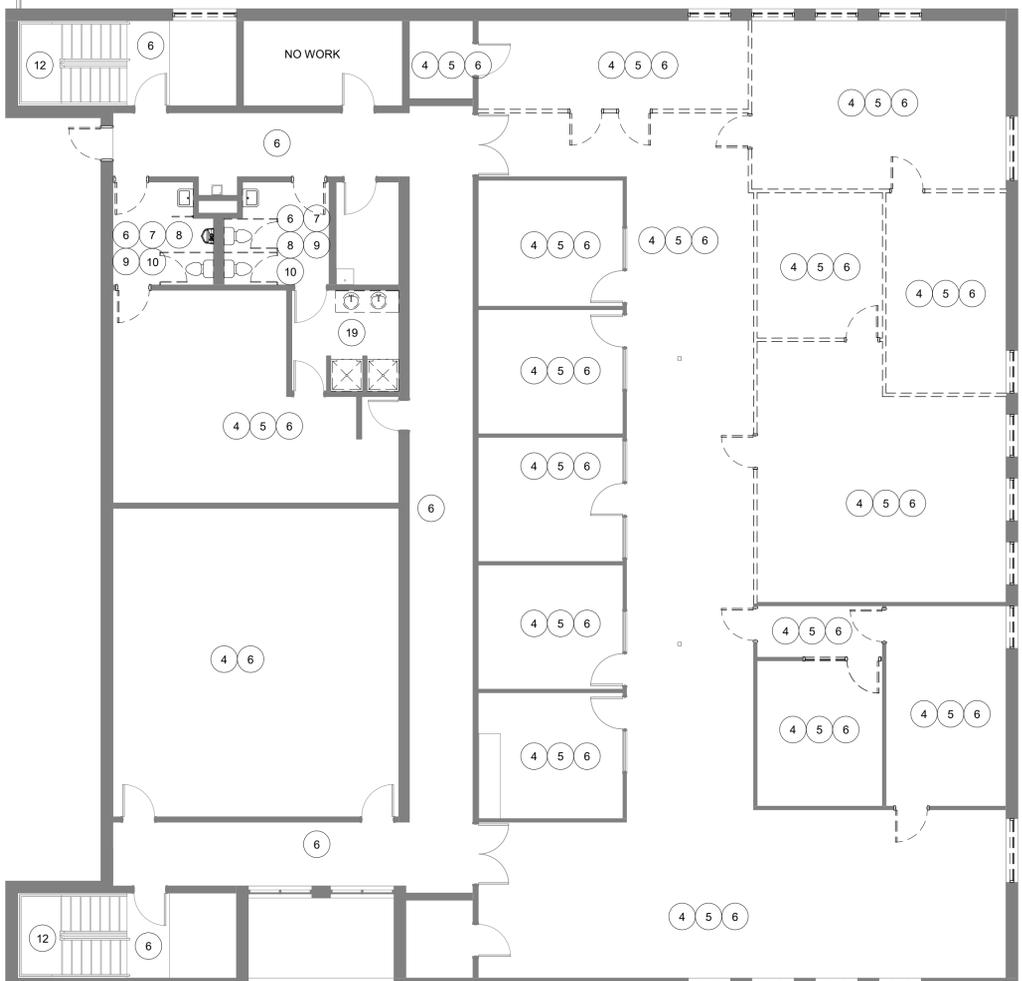
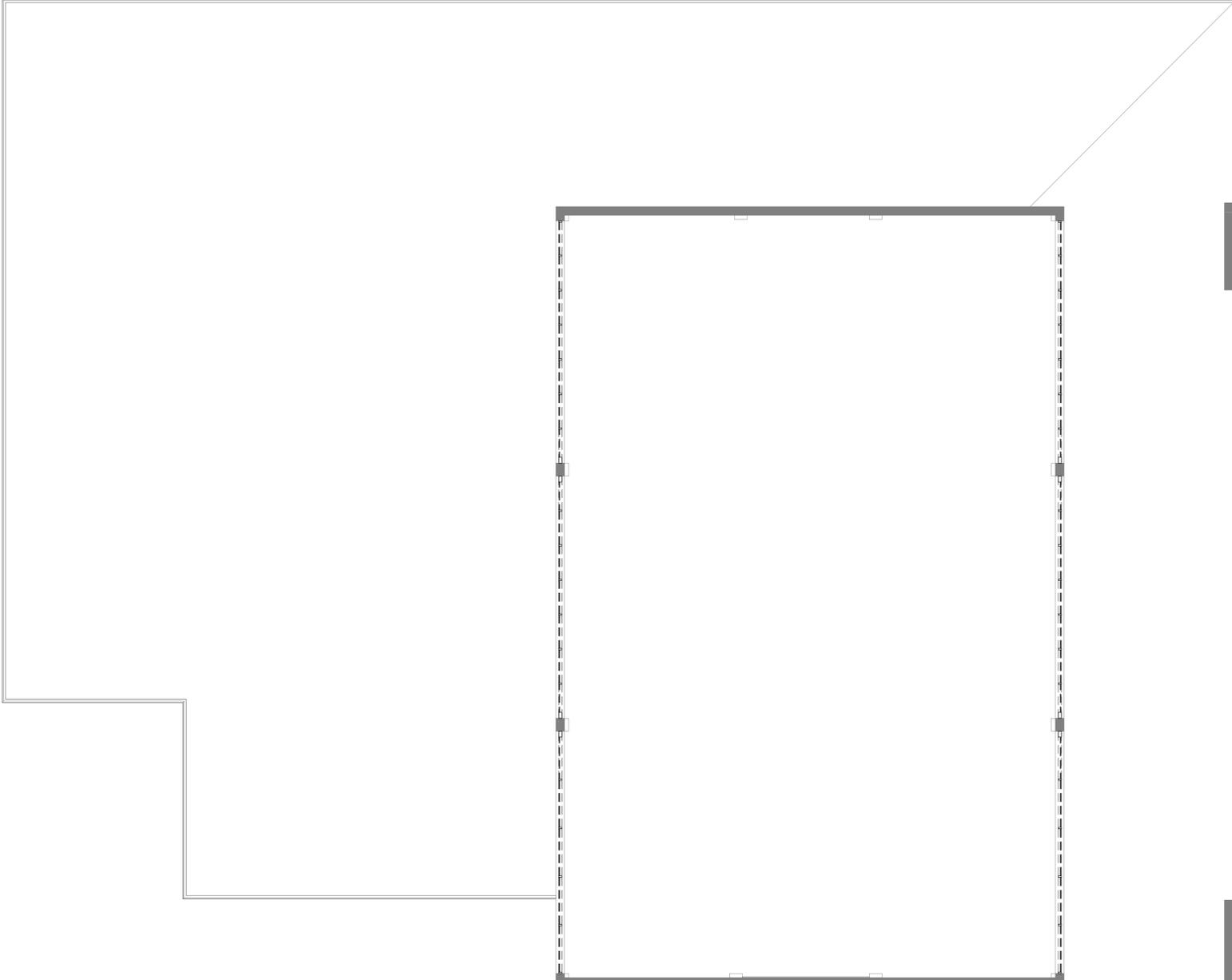
DEMOLITION LEGEND

-  EXISTING WALL TO REMAIN
-  EXISTING WALL TO BE REMOVED
-  EXISTING DOOR TO REMAIN
-  EXISTING DOOR TO BE REMOVED
-  EXISTING WINDOW TO REMAIN
-  EXISTING WINDOW TO BE RE-GLAZED

GENERAL NOTES:

1. CLEAN ALL WALLS
2. SALVAGE ALL DOOR HARDWARE TO BE REUSED PER DOOR SCHEDULE
3. PREP FLOOR FOR NEW FLOORING (RE: FINISH SCHEDULE)
4. REMOVE ALL RUBBER BASE WHERE FLOORING IS REMOVED.
5. SEE MEP TO COORDINATE SCOPE

#	DEMOLITION NOTES
NUMBER	Note text
1	REMOVE BULKHEAD
2	REMOVE TRIM AND CAULKING. PATCH WALL TO MATCH EXISTING
3	REMOVE BRACKET ON CEILING
4	REMOVE CEILING TILE
5	REMOVE CEILING GRID
6	REMOVE FLOORING
7	REMOVE WALL TILE
8	REMOVE GYP. BD. ON WALLS & CEILING
9	REMOVE TOILET PARTITIONS AND ACCESSORIES
10	REMOVE PLUMBING FIXTURES. (RE: MECHANICAL)
11	REMOVE PLATE ON FLOOR
12	REMOVE STAIR TREADS & LANDING FINISH
13	REMOVE AC UNIT
14	REMOVE LOUVER
15	REMOVE CARPET ON WALLS
16	REMOVE HEATING CABINET PATCH & REPAIR AS NEEDED.
17	REMOVE WOOD PANELING
18	REMOVE DOOR PANELS AND HARDWARE. PATCH AND PAINT REMAINING FRAME
19	REMOVE SHOWERS, CASEWORK AND SINKS



STATE OF MISSOURI
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ASSET#: 8136264001

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ISSUE DATE: DEC. 9, 2019

CAD DWG FILE:T1906-01-6264-D-102
DRAWN BY: AML
CHECKED BY: JKE
DESIGNED BY: JKE

SHEET TITLE:
DEMOLITION LEVEL 2

SHEET NUMBER:

D-102





CHRISTOPHER J. CULP
LICENSE # PE-2013037646

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ASSET #: 8136264001

REVISION:
DATE: _____
REVISION:
DATE: _____
REVISION:
DATE: _____
REVISION:
DATE: _____
ISSUE DATE: 12-9-19

CAD DWG FILE: T1906-001-6264-F-111
DRAWN BY: HEI
CHECKED BY: HEI
DESIGNED BY: HEI

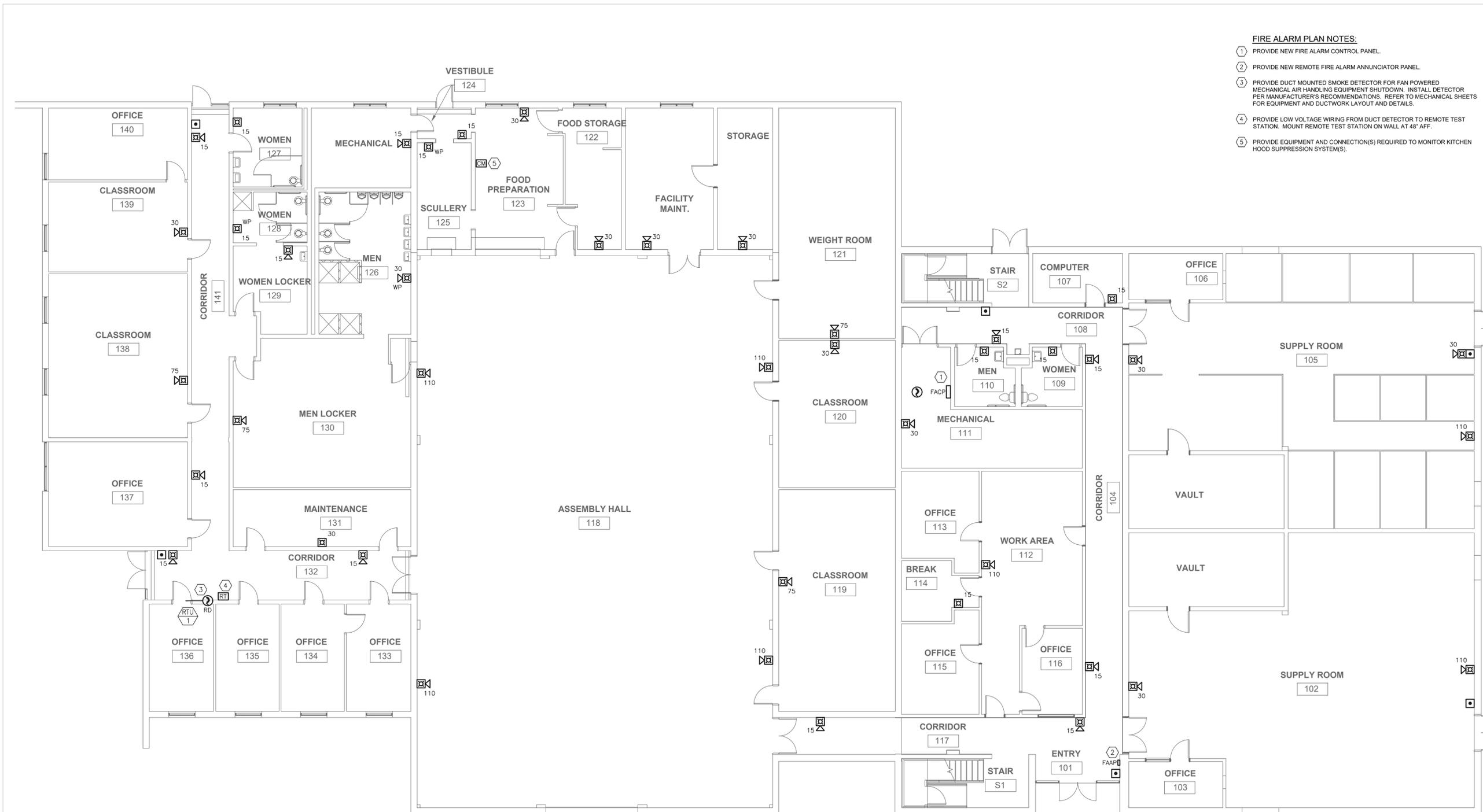
SHEET TITLE:
FIRST FLOOR
FIRE ALARM
PLAN

SHEET NUMBER:

F-111

FIRE ALARM PLAN NOTES:

- ① PROVIDE NEW FIRE ALARM CONTROL PANEL.
- ② PROVIDE NEW REMOTE FIRE ALARM ANNUCIATOR PANEL.
- ③ PROVIDE DUCT MOUNTED SMOKE DETECTOR FOR FAN POWERED MECHANICAL AIR HANDLING EQUIPMENT SHUTDOWN. INSTALL DETECTOR PER MANUFACTURER'S RECOMMENDATIONS. REFER TO MECHANICAL SHEETS FOR EQUIPMENT AND DUCTWORK LAYOUT AND DETAILS.
- ④ PROVIDE LOW VOLTAGE WIRING FROM DUCT DETECTOR TO REMOTE TEST STATION. MOUNT REMOTE TEST STATION ON WALL AT 48" AFF.
- ⑤ PROVIDE EQUIPMENT AND CONNECTION(S) REQUIRED TO MONITOR KITCHEN HOOD SUPPRESSION SYSTEM(S).



1 FIRST FLOOR FIRE ALARM PLAN
SCALE: 1/8"=1'-0"





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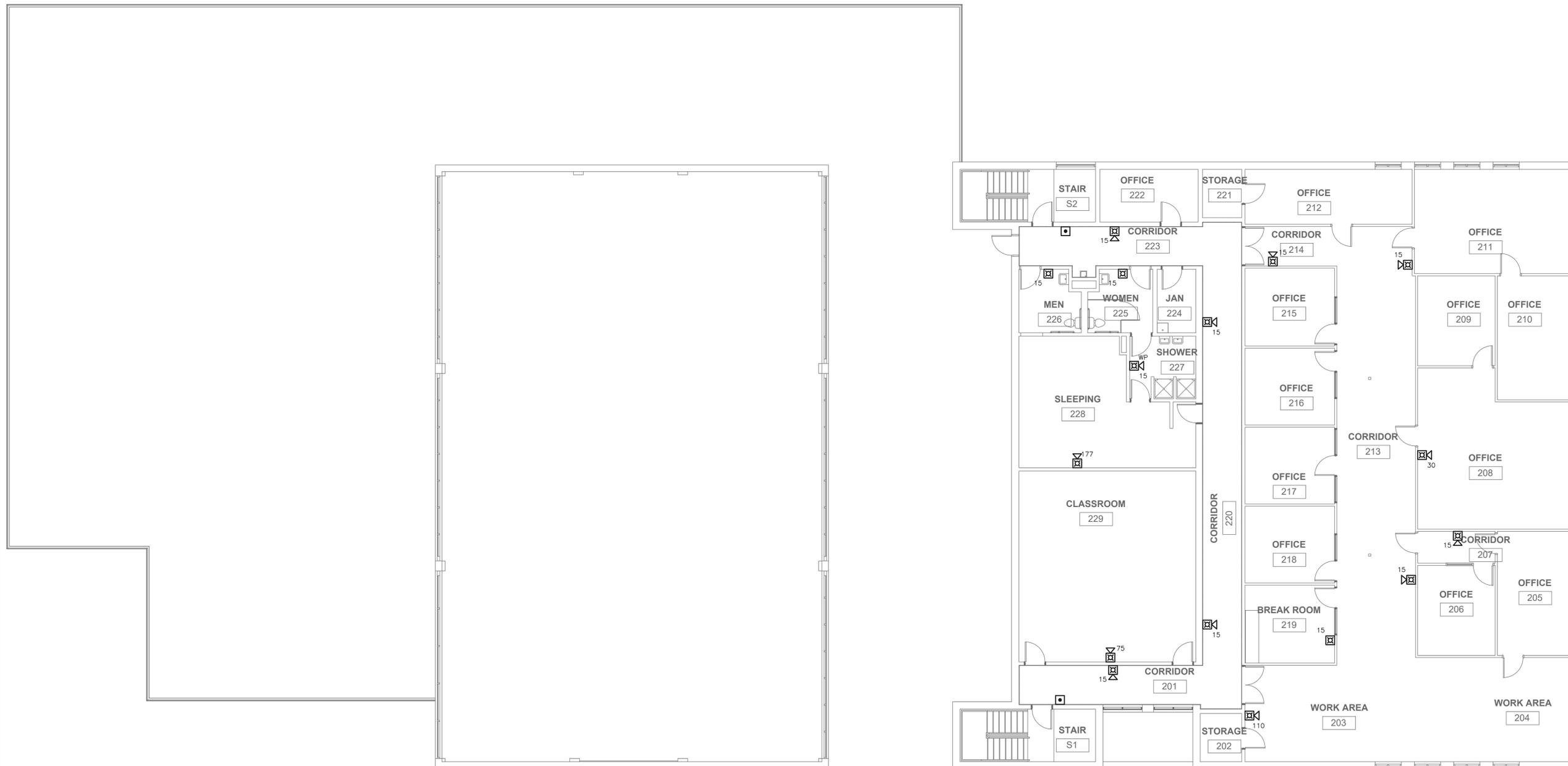
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DATE: _____
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DATE: _____
ISSUE DATE: 12-9-19

CAD DWG FILE: T1906-001-6264-F-112
DRAWN BY: HEI
CHECKED BY: HEI
DESIGNED BY: HEI

SHEET TITLE:
SECOND FLOOR
FIRE ALARM
PLAN

SHEET NUMBER:

F-112



1 SECOND FLOOR FIRE ALARM PLAN
SCALE: 1/8"=1'-0"



SCALE: 1/8"=1'-0"

GENERAL NOTES:

- DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE TO OBSERVE THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- PROVIDE A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE ARCHITECT REFLECTING ANY VARIANCES OF INSTALLED PIPING LOCATIONS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS, REFER TO SPECIFICATIONS.
- PROVIDE TO THE ARCHITECT A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS, REFER TO SPECIFICATIONS.
- PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
- VERIFY LOCATION AND DEPTH OF UTILITIES AT POINTS OF CONNECTION BEFORE START OF PIPING INSTALLATION.
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
- DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING.
- INSTALL CONCEALED PIPING TIGHT TO THE STRUCTURE AND AS HIGH AS POSSIBLE. INSTALL EXPOSED PIPING TIGHT TO THE STRUCTURE, WALL OR CEILING AND AS HIGH AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS.
- VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
- PIPING IN FINISHED AREAS SHALL BE ROUTED CONCEALED; EXPOSED PIPING, WHERE NECESSARY, SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO WALLS.
- INSTALL NO PLASTIC PIPE IN THE CEILING RETURN AIR PLENUM.
- COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC. WHERE REQUIRED AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR BEFORE CONCRETE IS INSTALLED.
- CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.
- PROVIDE TRAP PRIMERS WHERE REQUIRED BY LOCAL AUTHORITIES.
- COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL PIPING OVER ELECTRICAL PANELS.
- COORDINATE ALL ROOF PENETRATIONS WITH OTHER TRADES. MAINTAIN 10" MINIMUM CLEARANCE FROM ALL AIR INTAKES. MAINTAIN 2" CLEARANCE FROM ALL OTHER EQUIPMENT.
- INSULATE PIPING ROUTED IN EXTERIOR BUILDING WALLS WITH MINIMUM 2" BATT INSULATION TO PREVENT FREEZING.
- FLOW CONTROL VALVES SHALL BE SIZE 1/2" AND SET AT 0.5 GPM UNLESS NOTED OTHERWISE.
- WATER HAMMER ARRESTORS SHALL BE SIZE "A" UNLESS NOTED OTHERWISE.
- VERIFY EXISTING EQUIPMENT, INCLUDING ACCESSORIES, IS NOT DAMAGED AND IS IN GOOD WORKING ORDER. REPORT ANY DEFICIENCIES TO THE ARCHITECT.

GENERAL DEMOLITION NOTES:

- PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- OWNER RETAINS RIGHTS OF SALVAGE FOR EQUIPMENT AND FIXTURES TO BE REMOVED. COORDINATE WITH THE OWNER THE EQUIPMENT AND FIXTURES TO BE SALVAGED AND THE LOCATION FOR STORAGE. AVOID DAMAGE TO EQUIPMENT, FIXTURES AND DEVICES DURING DEMOLITION WORK AND DURING TRANSPORT TO OWNER'S DESIGNATED STORAGE LOCATION.
- REMOVE ITEMS SHOWN HEAVY LINED AND/OR CROSSHATCHED AND/OR NOTED TO BE REMOVED.
- AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN FOR NEW INSTALLATION. REPAIR ANY DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO THE OWNER.
- SEAL ALL PENETRATIONS THROUGH FLOORS, WALLS, CEILING AND ROOFS WHERE PLUMBING COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR SURFACES TO MATCH ADJACENT AREAS.
- INSTALL PERMANENT CAPS WHERE PIPING IS REMOVED AND THE EXISTING TAPS ARE NOT USED FOR THE NEW INSTALLATION. INSTALL TEMPORARY CAPS WHERE PIPING IS REMOVED AND THE EXISTING TAPS WILL BE USED FOR THE NEW INSTALLATION TO PROTECT THE INTERIOR SURFACES UNTIL NEW PIPING IS INSTALLED.
- REMOVE PIPE HANGERS, PIPE SUPPORTS AND EQUIPMENT SUPPORTS WHERE PIPING OR EQUIPMENT IS REMOVED AND THE EXISTING HANGERS AND SUPPORTS ARE NOT USED FOR THE NEW INSTALLATION.
- VERIFY THAT EXISTING EQUIPMENT TO REMAIN IS OPERATING PROPERLY. NOTIFY THE ARCHITECT, ENGINEER AND/OR OWNER OF ANY DAMAGED AND/OR MALFUNCTIONING COMPONENTS.
- WHERE SHUTDOWN OF EXISTING ACTIVE PIPING SYSTEMS IS REQUIRED DURING DEMOLITION PHASE OF WORK IN PREPARATION FOR NEW TIE-IN PHASE OF WORK, COORDINATE WITH THE OWNER AND MINIMIZE DOWNTIME. VERIFY EXISTING SYSTEMS, EQUIPMENT, AND COMPONENTS WILL BE PROVIDED WITH BACKUP SERVICE WHERE REQUIRED. NOTIFY OWNER A MINIMUM OF SEVEN (7) DAYS PRIOR TO INTERRUPTION OF SERVICE.

PLUMBING FIXTURE SCHEDULE: #

FIXTURES IN THIS SCHEDULE OR THEIR APPROVED EQUIVALENT ARE PROVIDED BY THE PLUMBING CONTRACTOR. SUBMIT SHOP DRAWINGS ON EACH OF THESE ITEMS. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION AND INSTALLATION REQUIREMENTS. VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE PLUMBING FIXTURE MOUNTING HEIGHTS.

ELECTRIC WATER COOLER AND DRINKING FOUNTAIN

EWFC-3 ELECTRIC WATER COOLER (ADA ACCESSIBLE): ELKAY EZS8WSLPL BARRIER FREE, LEAD FREE WITH BOTTLE FILLING STATION, FRONT AND SIDE PUSH ACTUATOR BARS, STAINLESS STEEL BOWL, FLEXIBLE POLYESTER ELASTOMER SAFETY BUBBLER AND GALVANIZED STEEL FRONT AND SIDES, CHILLER WITH CAPACITY OF 8.0 GALLONS PER HOUR CAPACITY, 50° F DRINKING WATER AT 80° F INLET TEMPERATURES 90° F ROOM TEMPERATURE, BOTTLE FILLING STATION, ELECTRONIC SENSOR FOR TOUCHLESS ACTIVATION WITH AUTO 20-SECOND SHUT-OFF TIMER, UNIT PROVIDES 1.1-1.5 GPM WITH LAMINAR FLOW TO MINIMIZE SPLASHING.

TRIM: McGUIRE # LF2165CC LEAD FREE BRASS COMPRESSION ANGLE STOP VALVE WITH RISER AND ESCUTCHEON, McGUIRE # B887Z0F 1-1/4" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, AND SUITABLE CARRIER WITH STANCHIONS TO FLOOR.

ELECTRICAL REQUIREMENTS: 120-VOLT, 5 FULL LOAD AMPS

DESIGNER TO SELECT ONE OF THE OPTIONS BELOW:

PROVIDE ELKAY # MP20 SURFACE MOUNTING PLATE (FOR MASONRY WALLS ONLY) OR ELKAY # ML100 IN WALL FLOOR SUPPORT LEGS (FOR STUD WALLS ONLY).

ELECTRICAL REQUIREMENTS: 120-VOLT, 4 FULL LOAD AMPS.

FLOOR DRAINS

FD-1 FLOOR DRAIN: JAY R. SMITH # 2005L (A), CAST IRON BODY AND CLAMPING COLLAR, ADJUSTABLE 6" ROUND NICKEL BRONZE STRAINER.

TRAP SEAL: PROVIDE TRAP SEAL PER SPECIFICATIONS FOR ACTUAL IFLOOR DRAIN MODEL AND SIZE. FLOW CONTROL VALVE

FCV-1 FLOW CONTROL VALVE: FLOWDESIGN # ICSS "AUTOFLOW", SERIES 300 STAINLESS UNION BODY WITH NICKEL PLATED UNION NUT, STAINLESS STEEL PRESSURE COMPENSATING CARTRIDGE, MEETING NSF 61 ANNEX G, NAEMLATE AND 1/2" VALVE BODY SIZE UNLESS SHOWN OTHERWISE ON PLANS. PROVIDE 0.5 GPM FLOW RATE CARTRIDGE UNLESS SHOWN OTHERWISE ON PLANS.

LAVATORIES

WML-1 WALL-MOUNTED LAVATORY: AMERICAN STANDARD # 0355 012 "LUCERNE" 20-1/2" X 18-1/4" RECTANGULAR WALL MOUNTED WHITE VITREOUS CHINA FIXTURE WITH FAUCET LEDGE AND FRONT OVERFLOW.

FAUCET: SLOAN # ETF-600-LT 4" CENTERSET, HARD WIRED, SENSOR OPERATED FAUCET LESS TRANSFORMER WITH "Y" STRAINER FILTERED SOLENOID VALVE AND 0.5 GPM AERATOR.

TRIM: McGUIRE # 155A GRID DRAIN WITH TALLPIECE, McGUIRE # LF2165CCLK LEAD FREE BRASS LOOSE KEY COMPRESSION ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE # B887Z0F 1-1/4" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, CONCEALED ARM CARRIER WITH STANCHIONS TO FLOOR.

WML-2 WALL-MOUNTED LAVATORY (ADA ACCESSIBLE): AMERICAN STANDARD # 0355 012 "LUCERNE" 20-1/2" X 18-1/4" RECTANGULAR WALL MOUNTED WHITE VITREOUS CHINA FIXTURE WITH FAUCET LEDGE AND FRONT OVERFLOW.

FAUCET: SLOAN # ETF-600-LT 4" CENTERSET, HARD WIRED, SENSOR OPERATED FAUCET LESS TRANSFORMER WITH "Y" STRAINER FILTERED SOLENOID VALVE AND 0.5 GPM AERATOR.

TRIM: McGUIRE # 155A GRID DRAIN WITH TALLPIECE, McGUIRE # LF2165CCLK LEAD FREE BRASS LOOSE KEY COMPRESSION ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE # B887Z0F 1-1/4" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, CONCEALED ARM CARRIER WITH STANCHIONS TO FLOOR.

THERMOSTATIC MIXING VALVES

TMV-1 THERMOSTATIC MIXING VALVE: POWERS # LF6480, SOLID LEAD FREE BRASS BODY, THERMOSTATIC WAX ELEMENT, CORROSION RESISTANT INTERNAL PARTS, AND INTEGRAL CHECKS, ASSE 1070 COMPLIANT, CAPABLE OF 2.2 GPM WITH A 20 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 0.5 GPM. SET TEMPERATURE TO 110F FOR DUEL TEMPERATURE LAVATORIES AND HAND SINKS, 100F FOR SINGLE TEMPERATURE LAVATORIES AND HAND SINKS AND 120F FOR SINKS. MOUNT BELOW THE PLUMBING FIXTURE WHERE INDICATED ON PLANS(S). TMV-1a THERMOSTATIC MIXING VALVE: POWERS # LF6480, SOLID LEAD FREE BRASS OR BRONZE BODY, THERMOSTATIC WAX ELEMENT, CORROSION RESISTANT INTERNAL PARTS, AND INTEGRAL CHECKS, ASSE 1070 COMPLIANT, CAPABLE OF 1.6 GPM WITH A 20 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 0.25 GPM. MAXIMUM TEMPERATURE STOP SET FOR 110 DEGREES. MOUNT BELOW THE PLUMBING FIXTURE WHERE INDICATED ON PLANS(S).

RECIRCULATION PUMPS

TS-1 TIME SWITCH: INTERMATIC #ET1705CSPST, 7 DAY ONE CIRCUIT SINGLE POLE SINGLE THROW ELECTRONIC TIME SWITCH OR EQUAL BY TORK. TIME SWITCH SHALL BE MOTOR RATED (1 H.P. @ 120 VOLT, SINGLE PHASE), MINIMUM OF 20 SET POINTS (14 ON/OFF CYCLES) AND BATTERY BACK UP. COORDINATE WITH DIVISION 16 FOR INSTALLATION AND INTERLOCK OF TIME SWITCH IN SERIES WITH THE AQUASTAT AND RECIRCULATION PUMP.

SHOWERS

SV-1 SHOWER VALVE: SYMMONS # 1-903-1.5 "HYDAPPIPE" SURFACE MOUNTED SHOWER ASSEMBLY WITH 18 GAUGE STAINLESS STEEL ENCLOSURE WITH BRUSHED FINISH, CEILING FLANGE, WITH "TEMPTRON" PISTON TYPE PRESSURE BALANCING MIXING VALVE, MEETING ASSE 1016P, WITH BRASS STEM, SINGLE BLADE LEVER HANDLE, SET ADJUSTABLE LIMIT STOP SCREW TO 110F, INTEGRAL SERVICE STOPS, FIXED 1.5 GPM SHOWER HEAD. PROVIDE WITH CUSTOM SHROUD WITH LENGTH EXTENDED TO FOR USE WITH SHOWER HEAD MOUNTING HEIGHT OF AT 8'-0" FOR MEN AND 7'-0" FOR WOMEN. PROVIDE WITH VERTICAL EXTENSION SHROUD FOR CONCEAL PIPES FROM THE CEILING, LENGTH AS REQUIRED.

URINALS

UR-1 URINAL: AMERICAN STANDARD "WASHBROOK FLOWISE" # 6590 001 1/8 GPF, ECOVANTAGE, ULTRA LOW CONSUMPTION URINAL SYSTEM, WHITE VITREOUS CHINA FIXTURE WITH FLUSHING RIM, 3/4" TOP SPUD, AND WASHOUT FLUSHING ACTION. 0.125 TO 1.0 GPF UNIVERSAL BOWL, MEETS DEFINITION FOR HIGH EFFICIENCY URINAL (HEU).

VALVE: SLOAN "SLOAN" # 186-0 125 0 125 GALLON PER FLUSH, EXPOSED CHROME-PLATED DIAPHRAGM TYPE FLUSH VALVE WITH CHLORAMINE RESISTANT DIAPHRAGM AND PROTECTED ORIFICE, OSCILLATING ADA COMPLIANT HANDLE WITH VANDAL RESISTANT CAP, ESCUTCHEON, INTEGRAL SCREWDRIVER STOP, VACUUM BREAKER, 3/4" FLUSH TUBE, AND SWEAT ADAPTER KIT.

TRIM: SUITABLE CARRIER WITH STANCHIONS TO FLOOR.

UR-2 URINAL (ADA ACCESSIBLE): AMERICAN STANDARD "WASHBROOK FLOWISE" # 6590 001 1/8 GPF, ECOVANTAGE, ULTRA LOW CONSUMPTION URINAL SYSTEM, WHITE VITREOUS CHINA FIXTURE WITH FLUSHING RIM, 3/4" TOP SPUD, AND WASHOUT FLUSHING ACTION. 0.125 TO 1.0 GPF UNIVERSAL BOWL, MEETS DEFINITION FOR HIGH EFFICIENCY URINAL (HEU).

VALVE: SLOAN "SLOAN" # 186-0 125 0 125 GALLON PER FLUSH, EXPOSED CHROME-PLATED DIAPHRAGM TYPE FLUSH VALVE WITH CHLORAMINE RESISTANT DIAPHRAGM AND PROTECTED ORIFICE, OSCILLATING ADA COMPLIANT HANDLE WITH VANDAL RESISTANT CAP, ESCUTCHEON, INTEGRAL SCREWDRIVER STOP, VACUUM BREAKER, 3/4" FLUSH TUBE, AND SWEAT ADAPTER KIT.

TRIM: SUITABLE CARRIER WITH STANCHIONS TO FLOOR.

WATER CLOSETS

WC-1 FLOOR-MOUNTED WATER CLOSET: AMERICAN STANDARD # 224 001 "MADERA" WHITE VITREOUS CHINA FIXTURE WITH ELONGATED UNIVERSAL BOWL AND DIRECT-FED SIPHON JET ACTION.

VALVE: SLOAN "OPTIMA" - SLOAN MODEL # 111 ES-S TMO 1.6 GALLON PER FLUSH EXPOSED, CHROME-PLATED, HARD WIRED, SENSOR OPERATED, DIAPHRAGM TYPE, FLUSH VALVE LESS TRANSFORMER WITH CHLORAMINE RESISTANT DIAPHRAGM AND PROTECTED ORIFICE, MANUAL OVERRIDE, ESCUTCHEON, INTEGRAL SCREWDRIVER STOP, VACUUM BREAKER, AND SWEAT ADAPTER KIT.

TRIM: CHURCH # 9500SCT WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, HEAVY DUTY, SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES AND STAINLESS STEEL BOLTS.

WC-2 FLOOR-MOUNTED WATER CLOSET (ADA ACCESSIBLE): AMERICAN STANDARD # 3043 001 "MADERA" WHITE VITREOUS CHINA FIXTURE WITH ELONGATED UNIVERSAL BOWL AND DIRECT-FED SIPHON JET ACTION. MEETS DEFINITION FOR HIGH EFFICIENCY TOILET (HET).

VALVE: SLOAN "OPTIMA" - SLOAN MODEL # 111 ES-S TMO 1.6 GALLON PER FLUSH EXPOSED, CHROME-PLATED, HARD WIRED, SENSOR OPERATED, DIAPHRAGM TYPE, FLUSH VALVE LESS TRANSFORMER WITH CHLORAMINE RESISTANT DIAPHRAGM AND PROTECTED ORIFICE, MANUAL OVERRIDE, ESCUTCHEON, INTEGRAL SCREWDRIVER STOP, VACUUM BREAKER, AND SWEAT ADAPTER KIT. INSTALL FLUSH VALVE HANDLE ON THE WIDE SIDE OF THE STALL.

TRIM: CHURCH # 9500SCT WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, HEAVY DUTY, SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES AND STAINLESS STEEL BOLTS.

T-1 TRANSFORMER: SLOAN # EL-154 120 VAC / 24 VAC, 50 VA, REFER TO ELECTRICAL DRAWINGS FOR WIRING OF TRANSFORMER.

MANUFACTURERS LISTED IN SCHEDULE ARE BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ADDITIONAL APPROVED MANUFACTURERS.

PLUMBING SYMBOLS

NOTE: THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ABBREVIATIONS, ETC. ARE NECESSARILY USED ON THE DRAWINGS.

ANNOTATION

- ① PLUMBING PLAN NOTE CALLOUT
- ① PLUMBING EQUIPMENT DESIGNATION. (CONTRACTOR FURNISHED AND INSTALLED). REFER TO PLUMBING FIXTURE OR EQUIPMENT SCHEDULES
- ① EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)
- CU ① MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)
- ① CONNECTION POINT OF NEW WORK TO EXISTING
- ① M1 DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
- ① M1 SECTION CUT DESIGNATION

STANDARD MOUNTING HEIGHTS

PLUMBING (AFF, AFG, UNLESS NOTED OTHERWISE)

REFER TO THE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE MOUNTING HEIGHTS. UNO, INSTAL PLUMBING FIXTURES WITH THE MOUNTING HEIGHTS AS LISTED BELOW WITH FINAL APPROVAL BY THE ARCHITECT.

ADA ACCESSIBLE DRINKING FOUNTAIN	36" MAX. FLOOR TO SPOUT
ADA ACCESSIBLE LAVATORIES	34" FLOOR TO RIM
ADA ACCESSIBLE SHOWER VALVES	38" MINIMUM TO 48" MAXIMUM FLOOR TO CENTERLINE
ADA ACCESSIBLE TUB VALVES	CENTER-BETWEEN GRAB BAR AND TUB RIM
ADA ACCESSIBLE URINALS	17" FLOOR TO RIM
ADA ACCESSIBLE WATER CLOSET	17" TO 19" FLOOR TO TOP OF SEAT
ADA ACCESSIBLE WATER COOLER	35" FLOOR TO RIM
ADULT STANDARD DRINKING FOUNTAIN	41" FLOOR TO RIM
ADULT STANDARD WATER COOLER	41" FLOOR TO RIM
CHILD STANDARD DRINKING FOUNTAIN	30" FLOOR TO RIM
CHILD STANDARD WATER COOLER	30" FLOOR TO RIM
CHILD URINAL	14" FLOOR TO RIM
CLINIC SERVICE SINKS	30" FLOOR TO RIM
JANITOR'S SINK FAUCET FITTINGS	42" FLOOR TO CENTERLINE
HOSE BIBBS	36" AFF TO CENTERLINE
ICE MAKER OUTLET BOXES	24" FLOOR TO CENTER OF BOX
LAVATORY OR SINK	31" FLOOR TO RIM
NON FREEZE HYDRANT	18" AFG TO CENTERLINE
SHOWER HEADS	6"-6" MEN & 6"-0" WOMEN FLOOR TO CENTERLINE
SHOWER VALVES	48" MEN & 42" WOMEN FLOOR TO CENTERLINE
STANDARD URINALS	22" FLOOR TO RIM
SURGEON'S SCRUB-UP SINKS	35" FLOOR TO FRONT RIM
TUB VALVES	32" FLOOR TO CENTERLINE
WASHING MACHINE OUTLET BOXES	42" FLOOR TO RIM
WATER CLOSET	15" FLOOR TO RIM

ABBREVIATIONS

AFF ABOVE FINISHED FLOOR	MH MANHOLE
AFG ABOVE FINISHED GRADE	MIN MINIMUM
AHU AIR HANDLING UNIT	N/C NORMALLY CLOSED
BFF BELOW FINISHED FLOOR	N/O NORMALLY OPEN
BFG BELOW FINISHED GRADE	ORD OVERFLOW ROOF DRAIN
BOP BOTTOM OF PIPE	PDI PLUMBING DRAINAGE INSTITUTE
BOS BOTTOM OF STRUCTURE	PVC POLYVINYL CHLORIDE
BTU BRITISH THERMAL UNIT	PRV PRESSURE REDUCING VALVE
CPVC CHLORINATED POLYVINYL CHLORIDE	RD ROOF DRAIN
DN DOWN	RTM REVOLUTIONS PER MINUTE
DFU DRAINAGE FIXTURE UNIT	RTU ROOFTOP UNIT
DS DOWNSPOUT	SF SQUARE FEET, SUPPLY FAN
ETR EXISTING TO REMAIN	SP SUMP PUMP
EWC ELECTRIC WATER COOLER	SS STAINLESS STEEL, SANITARY
FD FLOOR DRAIN	SEWER, SOIL STACK
FFA FROM FLOOR ABOVE	TDH TOTAL DYNAMIC HEAD
FFB FROM FLOOR BELOW	TFA TO FLOOR ABOVE
FF FINISHED FLOOR	TFB TO FLOOR BELOW
FL FLOW LINE	TYP TYPICAL
FLA FULL LOAD AMPS	UL UNDERWRITERS LABORATORIES, INC.
FLR FLOOR	UNO UNLESS NOTED OTHERWISE
GPM GALLONS PER MINUTE	UPS UNINTERRUPTIBLE POWER SUPPLY
HD HEAD, HUB DRAIN	V VOLT(S)
IE INERT ELEVATION	VCP VITRIFIED CLAY PIPE
IN WC INCHES OF WATER COLUMN	VS VENT STACK
JB JUNCTION BOX	VTR VENT THROUGH ROOF
J-BOX JUNCTION BOX	W/ WITH
KW KILOWATT	W/O WITHOUT
MAU MAKE-UP AIR UNIT	WC WATER COLUMN
MAX MAXIMUM	WS WASTE STACK
MBH 1000 BTU PER HOUR	WSFU WATER SUPPLY FIXTURE UNIT

PIPING

- DOMESTIC COLD WATER (CW)
- SCW SOFTENED COLD WATER (SCW)
- DOMESTIC HOT WATER (HW)
- DOMESTIC HOT WATER RECIRC. (HWR)
- 140' 140" DOMESTIC HOT WATER (140")
- T TRAP PRIMER LINE (T)
- S SOIL PIPING - ABOVE FLOOR (S)
- S SOIL PIPING - BELOW FLOOR (S)
- W WASTE PIPING - ABOVE FLOOR (W)
- W WASTE PIPING - BELOW FLOOR (W)
- GW GREASE WASTE - ABOVE FLOOR (GW)
- GW GREASE WASTE - BELOW FLOOR (GW)
- ST STORM DRAIN - ABOVE FLOOR (ST)
- ST STORM DRAIN - BELOW FLOOR (ST)
- OST OVERFLOW STORM DRAIN - ABOVE FLOOR (OST)
- VBG VENT BELOW GRADE (VBG)
- VBF VENT BELOW FLOOR (VBF)
- ID INDOOR DRAIN (ID)
- CDH CONDENSATE DRAIN - HIGH EFFICIENCY RTU (CDH)
- CD CONDENSATE DRAIN (CD)
- ACD AUXILIARY CONDENSATE DRAIN (ACD)
- SPD SUMP OR SEWAGE PUMP DISCHARGE (SPD)
- G NATURAL GAS (G)
- G NATURAL GAS ON ROOF (G)
- MPG MEDIUM PRESSURE NATURAL GAS (MPG)
- MPG MEDIUM PRESSURE NATURAL GAS ON ROOF (MPG)
- NPW NON POTABLE WATER (NPW)
- LPG LIQUIFIED PETROLEUM GAS (LPG)
- WS WATER SERVICE (WS)
- FP FIRE PROTECTION (FP)
- PD CONDENSATE PUMP DISCHARGE (PD)
- EXISTING PIPING TO BE REMOVED
- EXISTING PIPING TO REMAIN
- V VENT PIPING (V)
- FLOOR SINK (FS), SIZE & TYPE
- FLOOR DRAIN (FD), SIZE & TYPE
- ROOF DRAIN (RD), SIZE & TYPE
- BALL VALVE
- CONTROL VALVE
- SHUTOFF VALVE
- CHECK VALVE
- BALANCING VALVE WITH PRESSURE PORTS
- WATER METER
- STRAINER
- STRAINER WITH BLOWOFF
- RELIEF/SAFETY VALVE
- SOLENOID VALVE
- PRESSURE REDUCING VALVE
- GAS PRESSURE REGULATOR
- THERMOSTATIC MIXING VALVE
- PIPE ANCHOR
- EXPANSION JOINT
- BACKFLOW PREVENTER
- PRESSURE GAUGE
- THERMOMETER
- UNION
- FLANGE CONNECTION
- ROOFTOP UNIT
- SQUARE FEET, SUPPLY FAN
- SUMP PUMP
- STAINLESS STEEL, SANITARY
- SEWER, SOIL STACK
- TOTAL DYNAMIC HEAD
- TO FLOOR ABOVE
- TO FLOOR BELOW
- TYP TYPICAL
- UNDERWRITERS LABORATORIES, INC.
- UNLESS NOTED OTHERWISE
- UNINTERRUPTIBLE POWER SUPPLY
- VOLT(S)
- VITRIFIED CLAY PIPE
- VENT STACK
- VENT THROUGH ROOF
- WITH
- WITHOUT
- WATER COLUMN
- WASTE STACK
- WATER SUPPLY FIXTURE UNIT
- WALL CLEANOUT (WCO)
- FLOOR CLEANOUT (FCO)
- EXTERIOR CLEANOUT (ECO)
- ELBOW UP
- ELBOW DOWN
- TEE UP
- TEE DOWN
- ELBOW UP WITH SHUT-OFF VALVE (SOV)
- ELBOW DOWN WITH SHUT-OFF VALVE (SOV)
- TEE UP WITH SHUT-OFF VALVE (SOV)
- TEE DOWN WITH SHUT-OFF VALVE (SOV)
- WATER HAMMER ARRESTER (WHA) WITH PDI SIZES, (A, B, C, D, & E)
- RECIRCULATION PUMP
- P-TRAP
- GAS COCK
- TRAP PRIMER
- TRAP PRIMER WITH DISTRIBUTION UNIT

ELECTRIC STORAGE WATER HEATER SCHEDULE

MARK	MANUFACTURER/ MODEL#	AREA SERVED	TANK SIZE (GALLONS)	ELECTRICAL DATA VOLTS PHASE KW	RECOVERY (GPH)	NOTES
WH-1	A.O. SMITH #DRE-80-15	RESTROOMS	80	240 3 15	66	A, B, C

NOTES:

A. 100° TEMPERATURE RISE WITH 140°F OPERATING TEMPERATURE.

B. DUAL ELEMENT WIRED FOR SIMULTANEOUS OPERATION WITH UNBALANCED THREE PHASE CIRCUIT

C. FURNISH WITH IMMERSION THERMOSTAT

A.O. SMITH IS BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ADDITIONAL APPROVED MANUFACTURERS.

EXPANSION TANK SCHEDULE

MARK	MANUFACTURER / MODEL #	TANK SIZE (GALLONS)	MIN. ACCEPTANCE VOLUME (GALLONS)	AIR PRESSURE SETTING (PSI)	SERVICE
ET-1	AMTRON ST-8	3.2	1.44	70	WH-1

NOTES:

A. CHARGE TANK WITH AIR TO IDENTICAL PRESSURE AS STATIC DOMESTIC WATER PRESSURE.

AMTRON IS BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ADDITIONAL APPROVED MANUFACTURERS.

RECIRCULATION PUMP SCHEDULE

MARK	MANUFACTURER / MODEL#	SERVICE	GPM	HEAD (FT.)	CONNECTION SIZE (IN.)	IMPELLER SIZE (IN.)	ELECTRICAL DATA VOLTS PHASE HP	NOTES
RP-1	BELL & GOSSETT # NBF-12U	WH-1	2.5	11	3/4"	N/A	120 1 1/18	A, B, C
RP-2	BELL & GOSSETT # NBF-12U	WH-2	2.5	11	3/4"	N/A	120 1 1/18	A, B, C

NOTES:

A. ALL LEAD FREE CAST BRONZE BOOSTER.

B. PROVIDE WITH STRAINER UPSTREAM OF PUMP

C. PROVIDE ADJUSTABLE, SURFACE MOUNTED AQUASTAT - HONEYWELL L6008C

D. SET AQUASTAT TO SHUT OFF RECIRCULATION PUMP AT WATER HEATER SET POINT AND ON AT 10F BELOW SET POINT

E. SET AQUASTAT TO SHUT OFF RECIRCULATION PUMP AT 3F ABOVE MIXING VALVE SET POINT AND ON AT 7F BELOW SET POINT

BELL & GOSSETT IS BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ADDITIONAL APPROVED MANUFACTURERS.

INSTANTANEOUS GAS WATER HEATER RACK SCHEDULE

MARK	MANUFACTURER: RACK MODEL#	WH QTY.	WATER HEATER MODEL	WH INPUT (MBTUH)	RACK INPUT (MBTUH)	EFF.	OUTLET TEMP. (DEGREES F)	TEMP. RISE (DEGREES F)	FLOWRATE (GPM)	MINIMUM FLOW RATE (GPM)	ELECTRICAL DATA VOLTS PHASE AMPS	NOTES
VHR-1	NORITZ CVHS606	1	NCC199CDV	199.9	199.9	98%	140	93	16.5	0.5	120 1 4	A,F
VHR-2	NORITZ CVHS606	1	NCC199CDV	199.9	199.9	98%	140	93	16.5	0.5	120 1 4	A,F
VHR-3	NORITZ CVHS606	1	NCC199CDV	199.9	199.9	98%	140	93	16.5	0.5	120 1 4	A,F
VHR-4	NORITZ CVHS606	1	NCC199CDV	199.9	199.9	98%	140	93	16.5	0.5	120 1 4	A,F

NOTES:

A. PROVIDE WITH FACTORY STARTUP

B. RINNAI #MC-91-2 TEMPERATURE CONTROLLER INTEGRATED INTO UNIT.

C. FREE STANDING MULTI-UNIT RACK SYSTEM. FACTORY PROGRAMMED AND PIPED WITH 2"HW, 2"CW, AND 1-1/4" G TRUNK LINES. CONTRACTOR SHALL PROVIDE 1/2" CD FROM EACH UNIT AND A 3/4" CD TRUNK LINE.

D. TERMINATE COMBUSTION AIR AND FLUE PIPES THROUGH ROOF WITH MAUFACTURER FURNISHED CONCENTRIC VENT KIT EQUIPPED WITH PLASTIC RAIN CAP. REFER TO MECHANICAL DRAWINGS FOR MORE DETAILS.

E. PROVIDE WITH NORITZ #NC-20A CONDENSATE NETRALIZER. COMBINE DRAIN PIPE FROM ALL UNITS UPSTREAM OF NEUTRALIZER CONNECTION.

F. COORDINATE ELECTRICAL CONNECTION WITH ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE AND PROVIDE A DISCONNECT FOR EACH WATER HEATER IN THE RACK SYSTEM.

NOR

PLUMBING PLAN NOTES:

- ROUTE 3/4" CONDENSATE LINE TO EXTERIOR AND DISCHARGE ON GRADE. SLOPE LINE AT 1/8" PER 1'-0". PROVIDE CLEANOUT IN ALL TURNS.

STATE OF MISSOURI
MICHAEL L. PARSON
GOVERNOR



BRADLEY E. CHAMBON
LICENSE # PE-023695
2019
PROFESSIONAL SEAL



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12/31/20

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION

MISSOURI NATIONAL GUARD

RENOVATE EXTERIOR &
INTERIOR LEXINGTON
READINESS CENTER

408 S. 26TH STREET
LEXINGTON, MISSOURI

PROJECT #: T1906-01
SITE #: 6264
ASSET #: 8136264001

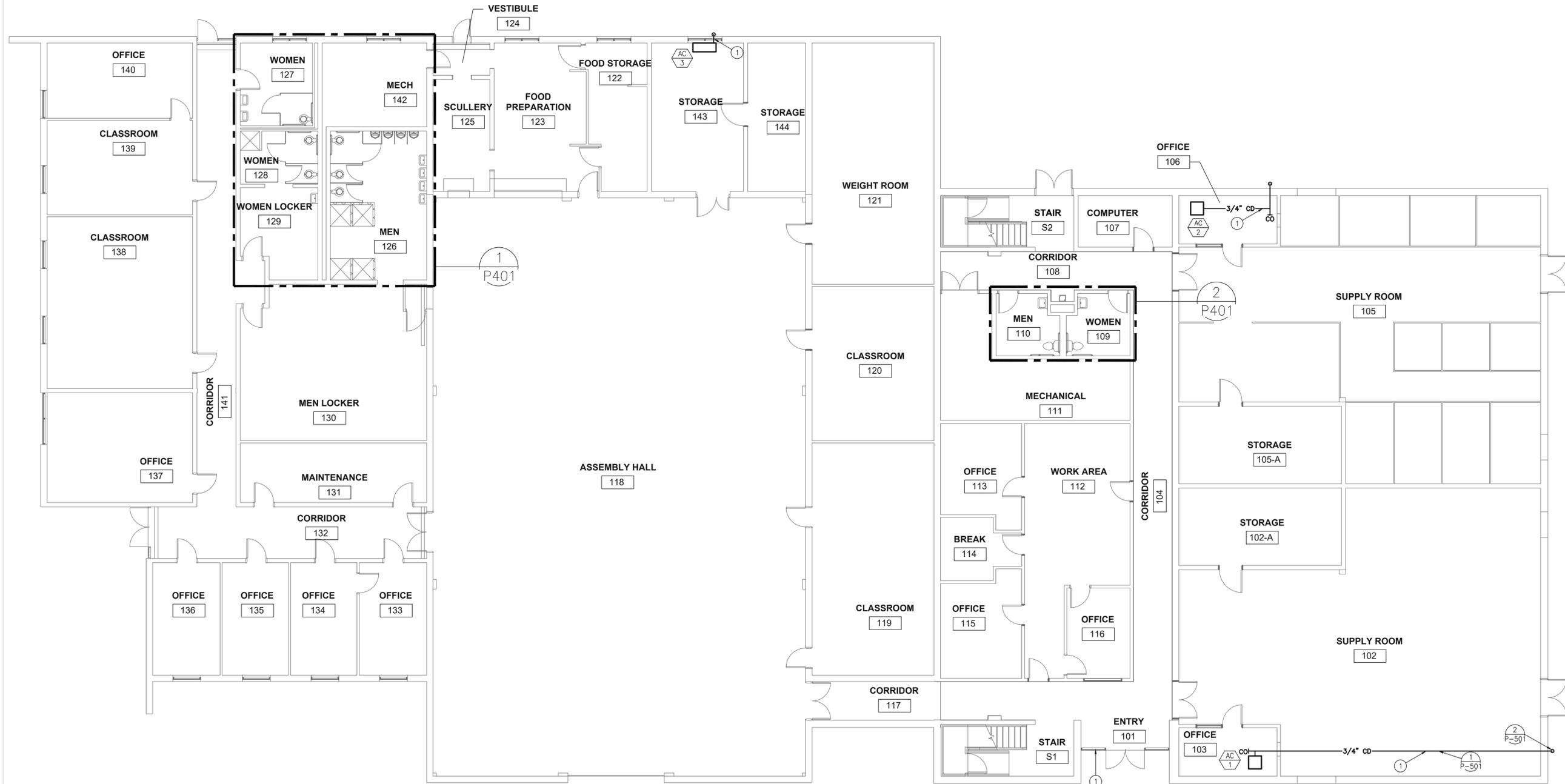
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 12-9-19

CAD DWG FILE: P-FP-1.DWG
DRAWN BY: HEI
CHECKED BY: HEI
DESIGNED BY: HEI

SHEET TITLE:
PLUMBING
1ST FLOOR
PLAN

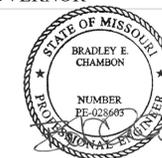
SHEET NUMBER:

P-111



1 PLUMBING 1ST FLOOR PLAN
SCALE: 1/8"=1'-0"





BRADLEY E. CHAMBON
LICENSE # PE-023685
2019

PROFESSIONAL SEAL



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408 S. 26TH STREET
LEXINGTON, MISSOURI

PROJECT #: T1906-01
SITE #: 6264
ASSET #: 8136264001

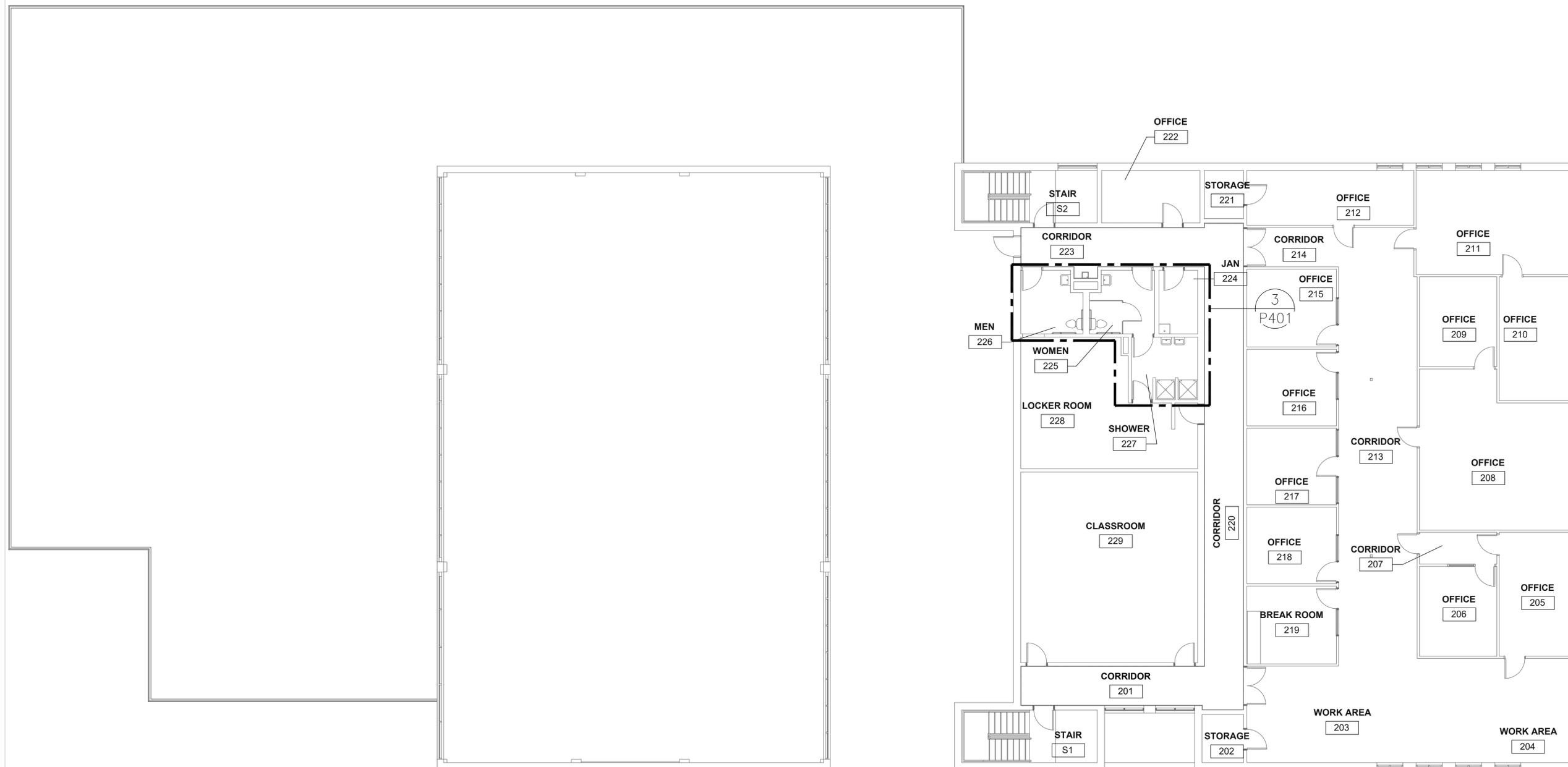
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REVISION: _____
DATE: _____
ISSUE DATE: 12-9-19

CAD DWG FILE: P-FP-1.DWG
DRAWN BY: HEI
CHECKED BY: HEI
DESIGNED BY: HEI

SHEET TITLE:
PLUMBING
2ND FLOOR
PLAN

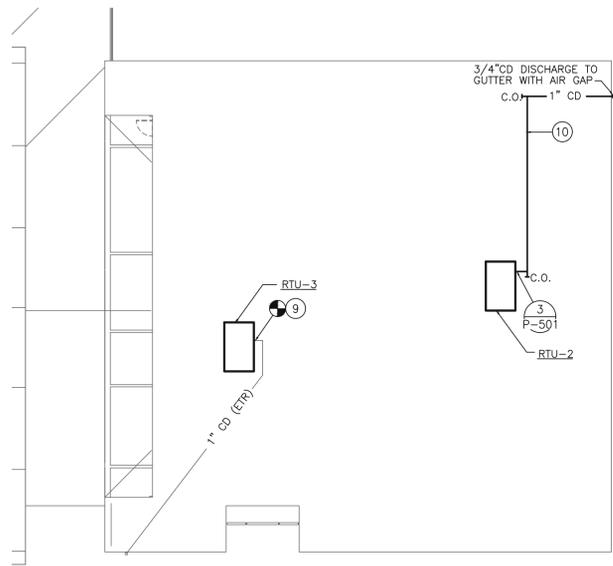
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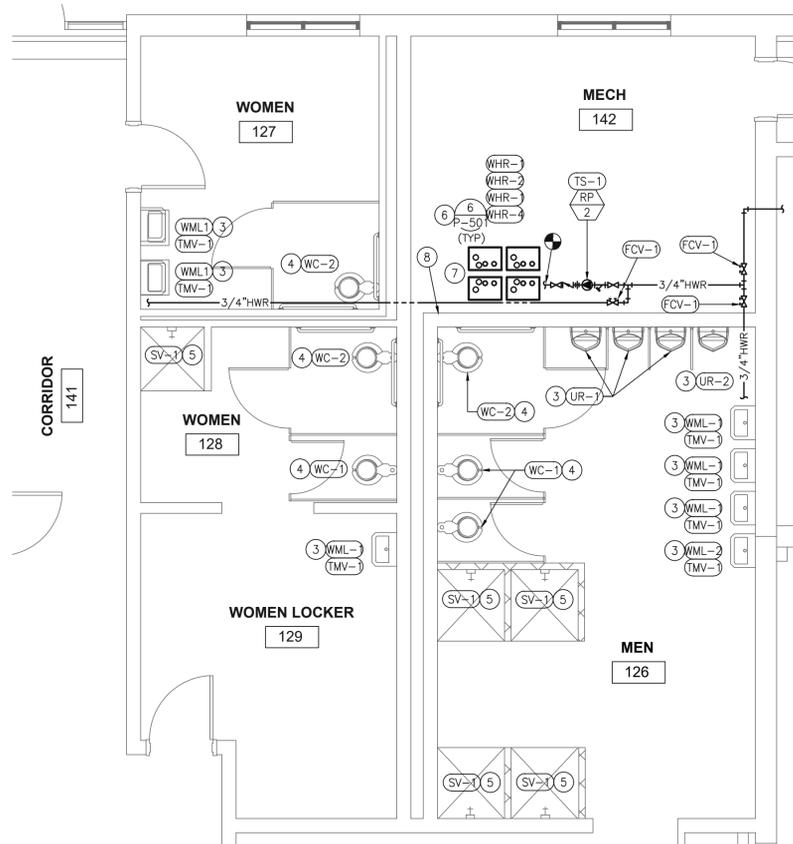


1 PLUMBING 2ND FLOOR PLAN
SCALE: 1/8"=1'-0"

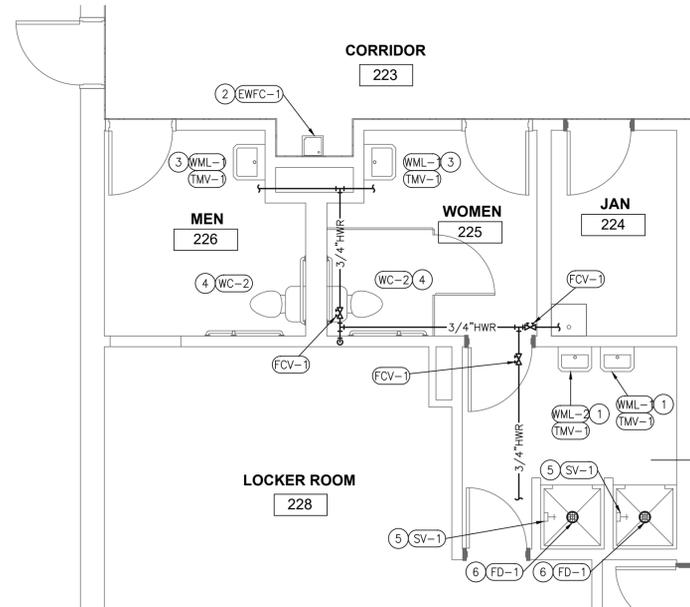




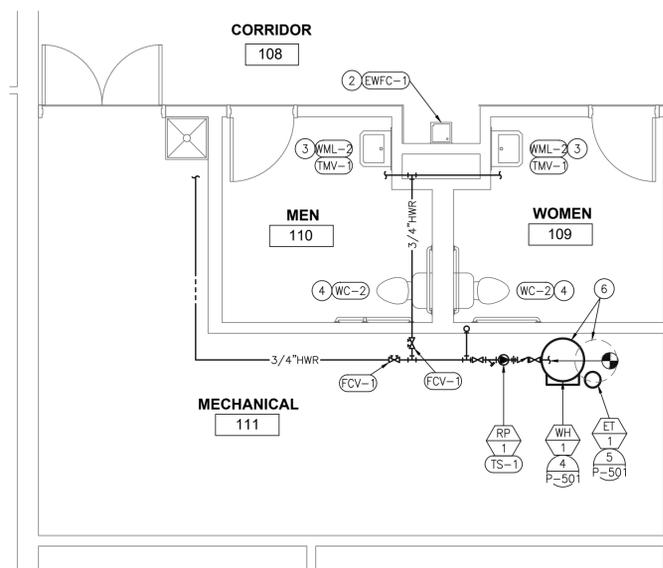
3 ENLARGED LEVEL 2
ROOF TOP UNIT CONDENSATE DRAINAGE
SCALE: 1/16"=1'-0"

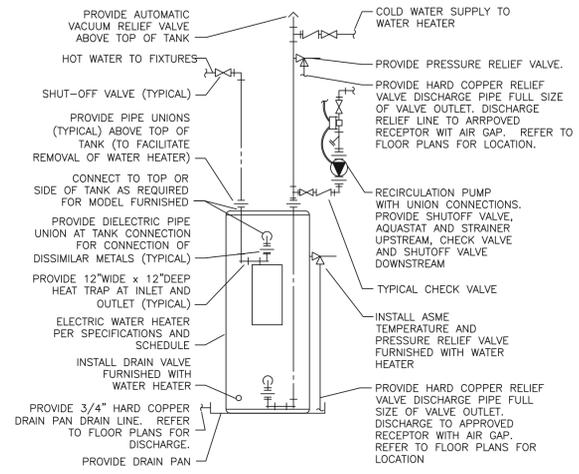


1 ENLARGED
RESTROOM PLUMBING PLAN
SCALE: 1/4"=1'-0"



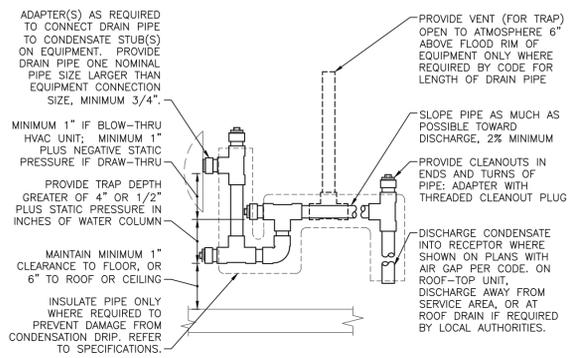
3 ENLARGED LEVEL 2
RESTROOM PLUMBING PLAN
SCALE: 1/4"=1'-0"





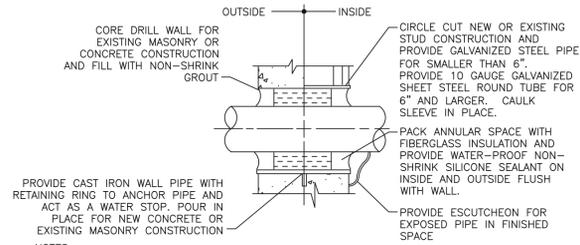
REFER TO SPECIFICATIONS, SCHEDULES, AND NOTES FOR MORE INFORMATION. PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. VERIFY CONNECTION SIZES AND LOCATIONS WITH WATER HEATER FURNISHED. REFER TO FLOOR PLANS FOR PIPE SIZES AND CONTINUATIONS. PROVIDE SEISMIC STRAP OR BRACING WHEN REQUIRED BY LOCAL AUTHORITIES. POWER WIRING AND DISCONNECT SWITCH ARE SPECIFIED BY ELECTRICAL. INTERLOCK OF AQUASTAT WITH RECIRCULATION PUMP IS SPECIFIED BY ELECTRICAL.

4 ELECTRIC WATER HEATER AND PUMP
NO SCALE



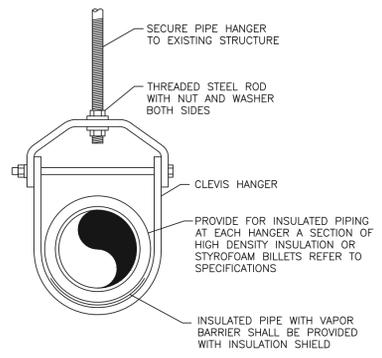
ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. PROVIDE CONNECTIONS SHOWN IN EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO SPECIFICATIONS FOR PIPE AND FITTING MATERIALS AND INSTALLATION. PROVIDE DIELECTRIC UNION IF CONNECTING DISSIMILAR METALS. AT MOTORIZED EQUIPMENT ABOVE CEILING, PROVIDE NEOPRENE TUBE AND STAINLESS STEEL SCREW CLAMPS FOR FLEXIBLE CONNECTION. FOR PIPE SIZE(S) REFER TO FLOOR PLANS, OR CODE REQUIREMENTS FOR HVAC UNIT TONNAGE. PROVIDE HANGERS OR SUPPORTS PER SPECIFICATIONS. DO NOT COMBINE CONDENSATE DRAIN PIPES WITH NON-CONDENSATE INDIRECT DRAINS.

3 CONDENSATE DRAIN INSTALLATION
NO SCALE

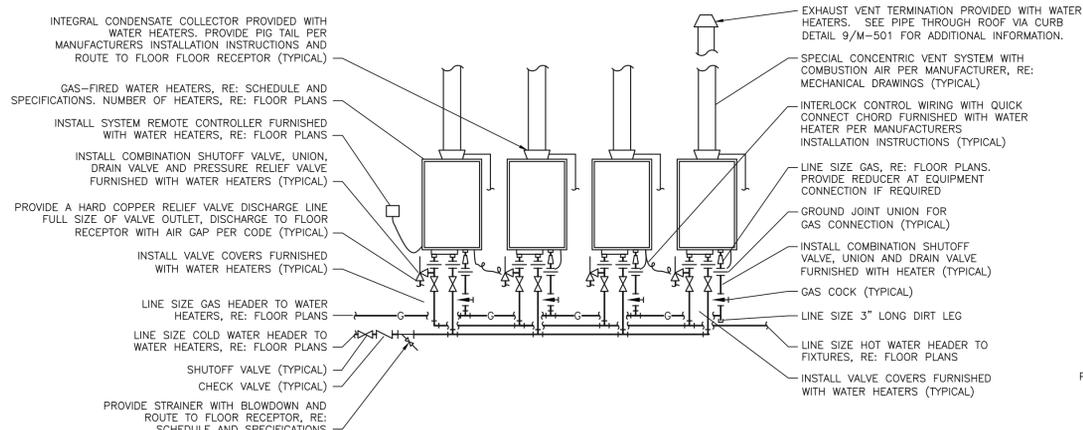


NOTES:
1. PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. REFER TO SPECIFICATIONS FOR MORE INFORMATION ON INSULATION AND SEALANT. COORDINATE SLEEVE INSTALLATION WITH DIVISION 1 CONTRACTOR. PVC SLEEVES ARE ACCEPTABLE FOR USE IN AREAS WITHOUT RETURN AIR PLENUMS.

2 ABOVE GROUND EXTERIOR WALL PENETRATION DETAIL
NO SCALE

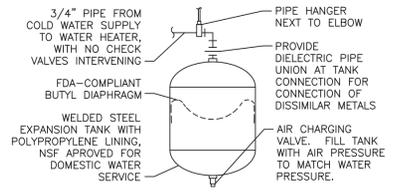


1 PIPE HANGER DETAIL
NO SCALE



REFER TO SCHEDULES, SPECIFICATIONS AND NOTES FOR MORE INFORMATION. PIPING ARRANGEMENT SHOWN IS SCHEMATIC. VERIFY ALL CONNECTION SIZES AND LOCATIONS PER MANUFACTURER'S REQUIREMENTS. ADJUST TO SUIT FIELD CONDITIONS. REFER TO FLOOR PLANS FOR PIPE SIZES.

6 MULTIPLE INDOOR INSTANTANEOUS GAS WATER HEATER CONNECTIONS WITH CONCENTRIC VENT
NO SCALE



PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION PROCEDURE. VERIFY PROPER OPERATION WHEN INSTALLED. PROVIDE SEISMIC STRAP OR BRACING WHEN REQUIRED BY LOCAL AUTHORITIES.

5 SMALL EXPANSION TANK
NO SCALE



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CAD DWG FILE: P-GP-0.DWG
DRAWN BY: HEI
CHECKED BY: HEI
DESIGNED BY: HEI

SHEET TITLE:

PLUMBING
SCHEDULES & DETAILS

SHEET NUMBER:

P-501

GENERAL NOTES:

- PRIOR TO SUBMITTING BID, IT IS RECOMMENDED THAT THE CONTRACTOR VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- COORDINATE THE INSTALLATION OF THE MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE PROPER INSTALLATION. INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF DUCTWORK AND PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
- WHERE SHUTDOWN OF EXISTING SYSTEMS IS REQUIRED DURING NEW WORK, COORDINATE SHUTDOWN TIME AND DURATION WITH THE OWNER TO MINIMIZE DOWNTIME. NOTIFY OWNER SEVEN (7) DAYS PRIOR TO INTERRUPTION OF SERVICE.
- DURING INSTALLATION OF NEW WORK, AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN. REPAIR DAMAGE CAUSED DURING CONSTRUCTION AT NO EXTRA COST TO THE OWNER.
- PROVIDE TEMPORARY BARRIERS TO CONTAIN DUST AND DEBRIS RESULTING FROM THE PERFORMANCE OF THE WORK TO THE AREA WHERE WORK IS BEING PERFORMED.
- ALL MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.
- NEW MECHANICAL EQUIPMENT, DUCTWORK AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL DUCTWORK AND PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE DUCTWORK AND PIPING WITHIN THE AVAILABLE SPACE. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
- REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE HVAC SYSTEM. VERIFY CHASES AND PENETRATIONS SHOWN ON ARCHITECTURAL DRAWINGS THAT ARE INTENDED FOR DUCTWORK AND PIPING MEET REQUIREMENTS.
- COORDINATE LOCATION OF ROOF MOUNTED HVAC EQUIPMENT AND ROOF PENETRATIONS WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- INDOOR AIR QUALITY MEASURES: PROTECT INSIDE OF (INSTALLED AND DELIVERED) DUCTWORK AND HVAC UNITS FROM EXPOSURE TO DUST, DIRT, PAINT AND MOISTURE. REPLACE INSULATION THAT HAS GOTTEN WET AT ANY TIME DURING CONSTRUCTION, DRYING THE INSULATION IS NOT ACCEPTABLE. SEAL ANY TEARS OR JOINTS OF INTERNAL FIBERGLASS INSULATION. REMOVE DEBRIS FROM CEILING/RETURN AIR PLENUM INCLUDING DUST. AN INDEPENDENT, PROFESSIONAL DUCT CLEANING COMPANY SHALL VACUUM CLEAN ANY DUCTWORK CONNECTED TO HVAC UNITS THAT WERE OPERATED DURING THE CONSTRUCTION PERIOD AFTER NEW FILTERS ARE INSTALLED AND PRIOR TO TURNING SYSTEM OVER TO THE OWNER. THE INTERNAL SURFACES AND ASSOCIATED COILS OF ANY HVAC UNITS THAT WERE OPERATED SHALL ALSO BE CLEANED.
- INSTALL DUCTWORK AND PIPING PARALLEL TO BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR NOTED.
- OVERHEAD HANGERS AND SUPPORTS FOR EQUIPMENT, DUCTWORK AND PIPING SHALL BE FASTENED TO BUILDING JOISTS OR BEAMS. DO NOT ATTACH HANGERS AND SUPPORTS TO THE ABOVE FLOOR SLAB OR ROOF EXCEPT WHERE CONCRETE INSERTS IN CONCRETE SLABS ARE ALLOWED BY THE SPECIFICATIONS.
- COORDINATE LOCATION OF EQUIPMENT SUPPORTS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT AND/OR FILTER REPLACEMENT.
- SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.
- CONTRACTOR SHALL DRAIN, FLUSH, AND REFILL ALL PIPING SYSTEMS NECESSARY TO PERFORM THE WORK. PROVIDE CHEMICAL TREATMENT FOR ALL PIPING SYSTEMS AFTER REFILLING SYSTEM.
- COORDINATE THE EXACT MOUNTING SIZE AND FRAME TYPE OF DIFFUSERS, REGISTERS AND GRILLES WITH THE SUPPLIER TO MEET THE CEILING, WALL AND DUCT INSTALLATION REQUIREMENTS.
- ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL CEILING GRID AND LIGHTING LOCATIONS.
- DUCTWORK CROSSING FIRE RATED WALLS OR OTHER FIRE RATED ASSEMBLIES SHALL BE MINIMUM 26 GAUGE SHEET METAL.
- LOCATE AND SET THERMOSTAT AT LOCATIONS SHOWN ON PLANS. VERIFY EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL DEVICES WITH TOP OF DEVICE AT MAXIMUM 48" AFF TO MEET ADA REQUIREMENTS UNLESS NOTED OTHERWISE ON PLANS. PROVIDE INSULATED BACKING FOR THERMOSTATS MOUNTED ON EXTERIOR BUILDING WALLS. INSTALL WIRING IN CONDUIT PROVIDED BY DIVISION 26. AT A MINIMUM, PROVIDE CONDUIT IN THE WALL FROM THE JUNCTION BOX TO 6" ABOVE THE CEILING.
- COORDINATE THE LOCATION AND ELEVATION OF WALL-MOUNTED DEVICES WITH PRESENTATION BOARDS, DISPLAY CABINETS, SHELVES OR OTHER COMPONENTS SHOWN ON THE ARCHITECTURAL DRAWINGS THAT ARE TO BE INSTALLED UNDER OTHER DIVISIONS. CONTRACTOR WILL NOT BE REIMBURSED FOR RELOCATION OF WALL-MOUNTED DEVICES CAUSED BY A LACK OF COORDINATION.
- PROVIDE A MANUAL BALANCING DAMPER IN EACH BRANCH DUCT TAKEOFF FROM MAIN SUPPLY, RETURN, OUTDOOR AND EXHAUST AIR DUCTS.
- PROVIDE A PREFABRICATED 45 DEGREE, HIGH EFFICIENCY, RECTANGULAR/ROUND BRANCH DUCT TAKEOFF FITTING WITH MANUAL BALANCING DAMPER AND LOCKING QUADRANT FOR BRANCH DUCT CONNECTIONS AND TAKE-OFFS TO INDIVIDUAL DIFFUSERS, REGISTERS AND GRILLES.
- BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS OTHERWISE NOTED.
- REFER TO SPECIFICATIONS FOR DUCTWORK AND PIPING INSULATION REQUIREMENTS. DUCT SIZES ON MECHANICAL PLANS INDICATE CLEAR INSIDE AIRFLOW DIMENSIONS, INCREASE SHEET METAL SIZES ACCORDINGLY TO ACCOUNT FOR THICKNESS OF DUCT LINER.
- FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH AND SHALL BE INSTALLED AND SUPPORTED TO AVOID SHARP BENDS AND SAGGING. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE EQUIPMENT VENTS AND FLUES PER EQUIPMENT MANUFACTURERS RECOMMENDATIONS AND EQUIPMENT SPECIFICATIONS. KEEP PENETRATIONS THROUGH ROOF A MINIMUM OF 10'-0" FROM HVAC EQUIPMENT FRESH AIR INLETS AND 2'-0" FROM ROOF PARAPETS.
- PROVIDE A NEW SET OF AIR FILTERS IN UNITS PRIOR TO TESTING, ADJUSTING AND BALANCING AND BEFORE TURNING SYSTEM(S) OVER TO OWNER.
- CONTRACTOR SHALL FIELD VERIFY THAT THE EXISTING EQUIPMENT INCLUDING ACCESSORIES BEING REUSED FOR THIS PROJECT IS NOT DAMAGED AND IS IN GOOD WORKING ORDER. REPORT ANY DEFICIENCIES TO THE OWNER OR ARCHITECT. CONTRACTOR SHALL SUBMIT TO THE OWNER AND ARCHITECT A WRITTEN REPORT DESCRIBING TESTS PERFORMED TO VERIFY OPERATION AND RESULTS OF THE TESTS.
- CLEAN EXISTING EQUIPMENT AND EQUIPMENT COMPONENTS BEING REUSED FOR THIS PROJECT. PROVIDE NEW FILTERS FOR EXISTING AIR HANDLING EQUIPMENT PRIOR TO STARTUP OF EQUIPMENT. NEW FILTERS SHALL BE COMPATIBLE WITH THE EXISTING EQUIPMENT AND EQUAL IN PERFORMANCE TO THE EXISTING FILTERS AT NEW CONDITION UNLESS OTHERWISE NOTED. CLEAN STRAINERS IN PIPING SYSTEMS PRIOR TO STARTING PUMPS.
- LUBRICATE EXISTING EQUIPMENT BEING REUSED FOR THIS PROJECT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. OBTAIN INSTRUCTIONS FROM MANUFACTURER IF THEY ARE NOT AVAILABLE AT THE SITE.
- FULLY CHARGE EXISTING REFRIGERANT SYSTEMS BEING REUSED FOR THIS PROJECT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. CHARGE SYSTEMS WITH NEW REFRIGERANT MATCHING EXISTING.

GENERAL DEMOLITION NOTES:

- COORDINATE ALL DEMOLITION WITH WHAT IS SHOWN ON ARCHITECTURAL PLANS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER OR OWNER, AS DEFINED IN BID DOCUMENTS, OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- OWNER RETAINS RIGHTS OF SALVAGE FOR EQUIPMENT AND FIXTURES TO BE REMOVED. COORDINATE WITH OWNER THE EQUIPMENT AND FIXTURES TO BE SALVAGED AND THE LOCATION FOR STORAGE. AVOID DAMAGE TO SALVAGED EQUIPMENT, FIXTURES AND DEVICES DURING DEMOLITION WORK AND DURING TRANSPORT TO OWNER'S DESIGNATED STORAGE LOCATION.
- REMOVE ITEMS SHOWN HEAVY-LINED DASHED, CROSSHATCHED, AND/OR NOTED TO BE REMOVED.
- AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN FOR NEW INSTALLATION. REPAIR DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO THE OWNER.
- SEAL PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS AND ROOFS WHERE MECHANICAL COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR DAMAGED SURFACES TO MATCH ADJACENT AREAS OR AS INDICATED ON THE ARCHITECTURAL DRAWINGS.
- REMOVE HANGERS AND SUPPORTS WHERE DUCTWORK, PIPING AND/OR EQUIPMENT ARE REMOVED AND THE EXISTING HANGERS AND SUPPORTS ARE NOT USED FOR THE NEW INSTALLATION.
- INSTALL PERMANENT CAPS WHERE DUCTWORK AND PIPING IS REMOVED AND THE EXISTING TAPS ARE NOT USED FOR THE NEW INSTALLATION. WHERE DUCTWORK AND PIPING ARE REMOVED AND THE EXISTING TAPS WILL BE USED FOR THE NEW INSTALLATION, INSTALL TEMPORARY CAPS TO PROTECT THE INTERIOR SURFACES UNTIL NEW DUCTWORK AND PIPING ARE INSTALLED.
- INSPECT EXISTING EQUIPMENT TO REMAIN TO VERIFY THAT EQUIPMENT IS OPERATING PROPERLY. NOTIFY OWNER OF DAMAGED AND/OR MALFUNCTIONING COMPONENTS.
- WHERE SHUTDOWN OF EXISTING SYSTEMS IS REQUIRED DURING DEMOLITION, COORDINATE SHUTDOWN TIME AND DURATION WITH OWNER TO MINIMIZE DOWNTIME. NOTIFY OWNER SEVEN (7) DAYS PRIOR TO INTERRUPTION OF SERVICE.
- CONTRACTOR SHALL CEASE WORK AND IMMEDIATELY NOTIFY THE OWNER SHOULD ANY HAZARDOUS MATERIALS BE ENCOUNTERED DURING THE PERFORMANCE OF THE WORK.
- REMOVAL, RECOVERY, RECYCLING, AND DISPOSAL OF REFRIGERANT, CONTAINED IN ANY EQUIPMENT TO BE REMOVED, SHALL BE PERFORMED IN STRICT ACCORDANCE WITH CURRENT EPA GUIDELINES.

MECHANICAL SYMBOLS

NOTE: THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ETC. ARE NECESSARILY USED ON THE DRAWINGS.

PIPING		ANNOTATION	
— CD —	CONDENSATE DRAIN (CD)	①	MECHANICAL PLAN CALLOUT
- - -	EXISTING PIPING TO BE REMOVED	⬢	MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)
—	EXISTING PIPING TO REMAIN	⊙	CONNECTION POINT OF NEW WORK TO EXISTING
→	DIRECTION OF FLOW	① M1	DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
●	BALL VALVE	⊠	SECTION CUT DESIGNATION
⊘	CONTROL VALVE		
⊘	THREE-WAY CONTROL VALVE		
⊘	SHUTOFF VALVE		
—	CHECK VALVE		
⊘	BALANCING VALVE WITH PRESSURE PORTS		
⊘	TRIPLE DUTY VALVE WITH PRESSURE PORTS		
⊘	WATER METER		
⊘	STRAINER		
⊘	SOLENOID VALVE		
⊘	PRESSURE GAUGE		
⊘	THERMOMETER		
⊘	PRESSURE AND TEMPERATURE TEST PLUG		
⊘	UNION		
⊘	FLANGE CONNECTION		
⊘	ELBOW UP		
⊘	ELBOW DOWN		
⊘	TEE UP		
⊘	TEE DOWN		
⊘	REDUCER		

HVAC EQUIPMENT & DUCTWORK

NOTE: ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE DIMENSIONS. SEE SECTION 15250 OF THE SPECIFICATION FOR DUCTWORK TO RECEIVE INSULATION OR LINER.

⊠	EXISTING DUCTWORK OR EQUIPMENT TO REMAIN	⊠	EXISTING DUCTWORK OR EQUIPMENT TO BE REMOVED
⊠	BRANCH DUCT WITH 45° RECTANGLE-ROUND BRANCH FITTING AND MANUAL VOLUME DAMPER	⊠	ELBOW WITH TURNING VANES
⊠	RETURN, EXHAUST, OR OUTSIDE AIR DUCT UP	⊠	RETURN, EXHAUST, OR OUTSIDE AIR DUCT DOWN
⊠	SUPPLY AIR DUCT UP	⊠	SUPPLY AIR DUCT DOWN
⊠	EQUIPMENT WITH FLEXIBLE DUCT CONNECTION	⊠	10" CSD-1,300 CFM NECK SIZE, TYPE, CFM OF SUPPLY DIFFUSER OR REGISTER
⊠	MANUAL VOLUME DAMPER	⊠	SQUARE TO ROUND TRANSITION
⊠	DUCT MOUNTED SMOKE DETECTOR (SD=SUPPLY/RD=RETURN)	⊠	FIRE DAMPER
⊠	FIRE SMOKE DAMPER	⊠	CARBON DIOXIDE SENSOR
⊠	SMOKE DAMPER	⊠	HUMIDITY SENSOR
⊠	VOLUME DAMPER	⊠	PULL STATION
⊠	MOTORIZED DAMPER	⊠	STATIC PRESSURE SENSOR
⊠	BACKDRAFT DAMPER	⊠	TEMPERATURE SENSOR
⊠	CARBON MONOXIDE SENSOR	⊠	HUMIDISTAT
		⊠	THERMOSTAT

ABBREVIATIONS

AFB	ABOVE FINISHED FLOOR	MC	MECHANICAL CONTRACTOR
AFG	ABOVE FINISHED GRADE	MCA	MAX CURRENT AMPERAGE
BAS	BUILDING AUTOMATION SYSTEM	MIN	MINIMUM
BD	BACKDRAFT DAMPER	MOP	MAX OVERCURRENT PROTECTION
COP	PERFORMANCE COEFFICIENT	NC	NOISE CRITERIA
CFM	CUBIC FEET PER MINUTE	NOM	NOMINAL
DCV	DEMAND CONTROL VENTILATION	OA	OUTSIDE AIR
DDC	DIRECT DIGITAL CONTROL	RA	RETURN AIR
DX	DIRECT EXPANSION	RAG	RETURN AIR GRILLE
EA	EXHAUST AIR	RFR	REFRIGERANT
EAG	EXHAUST AIR GRILLE	SA	SUPPLY AIR
EH	ELECTRIC HEATER	SAG	SUPPLY AIR GRILLE
ETR	EXISTING TO REMAIN	SD	SMOKE DUCT DETECTOR
FFA	FROM FLOOR ABOVE	TFA	TO FLOOR ABOVE
FFB	FROM FLOOR BELOW	TFB	TO FLOOR BELOW
GPM	GALLONS PER MINUTE	TYP	TYPICAL
IN WC	INCHES OF WATER COLUMN	UNO	UNLESS NOTED OTHERWISE
IMC	INTERNATIONAL MECHANICAL CODE	V/PH	VOLTAGE/PHASE
KW	KILOWATT	W/	WITH
MAX	MAXIMUM	W/O	WITHOUT
MBH	1000 BTU PER HOUR		

STANDARD MOUNTING HEIGHTS

MECHANICAL	(AFF, AFG, UNLESS NOTED OTHERWISE)
THERMOSTATS (USER ADJUSTABLE)(TOP OF DEVICE)	48"
CONTROLS (TOP OF DEVICE)	48"

STATE OF MISSOURI
MICHAEL L. PARSON
GOVERNOR



BRADLEY E. CHAMBON
LICENSED PROFESSIONAL ENGINEER
2019
PROFESSIONAL SEAL



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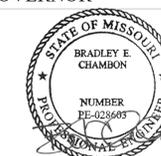
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CAD DWG FILE: M-GP-0.DWG
DRAWN BY: HEI
CHECKED BY: HEI
DESIGNED BY: HEI

SHEET TITLE:
MECHANICAL
SYMBOLS &
LEGENDS

SHEET NUMBER:

M-001



BRADLEY E. CHAMBON
LICENSED PROFESSIONAL ENGINEER
2019

PROFESSIONAL SEAL



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LEXINGTON, MISSOURI

PROJECT #: T1906-01
SITE #: 6264
ASSET #: 8136264001

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ISSUE DATE: 12-9-19

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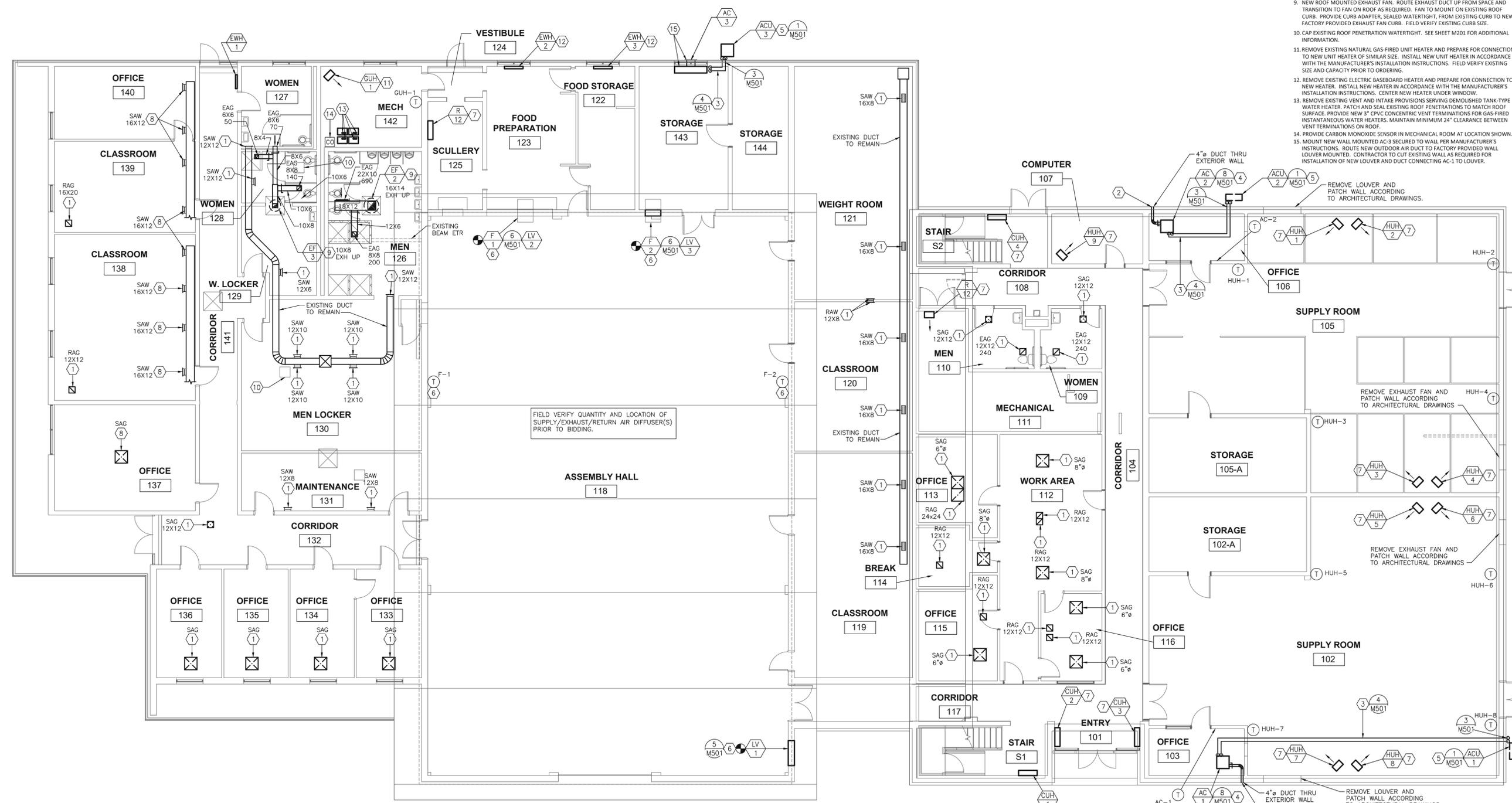
SHEET TITLE:
MECHANICAL
1ST FLOOR
PLAN

SHEET NUMBER:

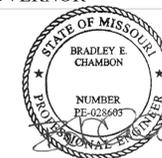
M-111

MECHANICAL PLAN NOTES:

1. REPLACE EXISTING AIR DEVICE WITH NEW AIR DEVICE PER AIR DEVICES SCHEDULE. TRANSITION FOR CONNECTION TO EXISTING DUCT IF NECESSARY. FIELD VERIFY SIZE AND LOCATION PRIOR TO ORDERING NEW AIR DEVICES. PRIOR TO DEMOLITION, MEASURE AND RECORD EXISTING AIRFLOWS FOR AFFECTED DIFFUSERS AND GRILLES. REBALANCE NEW AIR DEVICE'S AIRFLOW TO MATCH EXISTING AIR DEVICE'S AIRFLOW.
2. 4" OUTSIDE AIR DUCT ROUTED TO FACTORY PROVIDED INTAKE ON WALL WITH INTEGRAL BACKDRAFT DAMPER. PROVIDE TRANSITION AS REQUIRED TO MATCH INDOOR UNIT CONNECTION SIZE. MAINTAIN MINIMUM OF 10'-0" CLEARANCE FROM ALL EXHAUST/PLUE DUCTS ON ROOF.
3. ROUTE REFRIGERANT PIPING FROM EXTERIOR CONDENSING UNIT TO INTERIOR EVAPORATOR UNIT. SIZE AND ROUTE PIPING PER MANUFACTURER'S RECOMMENDATIONS.
4. NEW CEILING MOUNTED CASSETTE IN OFFICE. INSTALL PER MANUFACTURER RECOMMENDATIONS.
5. NEW CONDENSING UNIT LOCATED ON GROUND, MOUNTED ON CONCRETE PAD. FIELD COORDINATE WITH EXISTING SITE AND OTHER EQUIPMENT ON GROUND FOR FINAL LOCATION. RUN REFRIGERANT PIPING FROM INTERIOR UNIT, SLEEVED AND SEALED WATERTIGHT THROUGH EXTERIOR WALL AND TO CONDENSING UNIT.
6. REPLACE EXISTING WALL MOUNTED EXHAUST FAN AND INTAKE LOUVER WITH NEW SCHEDULED EQUIPMENT. REPLACE EXISTING EXHAUST LOUVERS. NEW FANS SHALL BE CONTROLLED BY THERMOSTATS SHOWN ON THIS PLAN. SET THERMOSTATS TO 80°F. REPLACE EXISTING INTAKE LOUVER. INTERLOCK NEW INTAKE LOUVER TO OPEN IF EITHER EXHAUST FAN IS ACTIVATED TO PREVENT NEGATIVE PRESSURIZATION OF SPACE.
7. REMOVE EXISTING HYDRONIC HEATER AND PREPARE FOR CONNECTION TO NEW HEATER OF SIMILAR SIZE. INSTALL NEW HEATER IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. FIELD VERIFY EXISTING SIZE AND CAPACITY PRIOR TO ORDERING.
8. EXISTING SUPPLY AIR DIFFUSER TO REMAIN. CLEAN DIFFUSER THOROUGHLY AND RE-DIRECT TURNING BLADES TO THROW AIR DOWN INTO THE ROOM.
9. NEW ROOF MOUNTED EXHAUST FAN. ROUTE EXHAUST DUCT UP FROM SPACE AND TRANSITION TO FAN ON ROOF AS REQUIRED. FAN TO MOUNT ON EXISTING ROOF CURB. PROVIDE CURB ADAPTER, SEALED WATERTIGHT. FROM EXISTING CURB TO NEW FACTORY PROVIDED EXHAUST FAN CURB. FIELD VERIFY EXISTING CURB SIZE.
10. CAP EXISTING ROOF PENETRATION WATERTIGHT. SEE SHEET M201 FOR ADDITIONAL INFORMATION.
11. REMOVE EXISTING NATURAL GAS-FIRED UNIT HEATER AND PREPARE FOR CONNECTION TO NEW UNIT HEATER OF SIMILAR SIZE. INSTALL NEW UNIT HEATER IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. FIELD VERIFY EXISTING SIZE AND CAPACITY PRIOR TO ORDERING.
12. REMOVE EXISTING ELECTRIC BASEBOARD HEATER AND PREPARE FOR CONNECTION TO NEW HEATER. INSTALL NEW HEATER IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. CENTER NEW HEATER UNDER WINDOW.
13. REMOVE EXISTING VENT AND INTAKE PROVISIONS SERVING DEMOLISHED TANK-TYPE WATER HEATER. PATCH AND SEAL EXISTING ROOF PENETRATIONS TO MATCH ROOF SURFACE. PROVIDE NEW 3" CPVC CONCENTRIC VENT TERMINATIONS FOR GAS-FIRED INSTANTANEOUS WATER HEATERS. MAINTAIN MINIMUM 24" CLEARANCE BETWEEN VENT TERMINATIONS ON ROOF.
14. PROVIDE CARBON MONOXIDE SENSOR IN MECHANICAL ROOM AT LOCATION SHOWN.
15. MOUNT NEW WALL MOUNTED AC-3 SECURED TO WALL PER MANUFACTURER'S INSTRUCTIONS. ROUTE NEW OUTDOOR AIR DUCT TO FACTORY PROVIDED WALL LOUVER MOUNTED. CONTRACTOR TO CUT EXISTING WALL AS REQUIRED FOR INSTALLATION OF NEW LOUVER AND DUCT CONNECTING AC-1 TO LOUVER.



1 MECHANICAL 1ST FLOOR PLAN
SCALE: 1/8"=1'-0"



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CHECKED BY: HEI
DESIGNED BY: HEI

SHEET TITLE:
MECHANICAL
2ND FLOOR
PLAN

SHEET NUMBER:

M-112

MECHANICAL PLAN NOTES:

1. REPLACE EXISTING AIR DEVICE WITH NEW AIR DEVICE PER AIR DEVICES SCHEDULE. TRANSITION FOR CONNECTION TO EXISTING DUCT IF NECESSARY. FIELD VERIFY SIZE AND LOCATION PRIOR TO ORDERING NEW AIR DEVICES. PRIOR TO DEMOLITION, MEASURE AND RECORD EXISTING AIRFLOWS FOR AFFECTED DIFFUSERS AND GRILLES. REBALANCE NEW AIR DEVICE'S AIRFLOW TO MATCH EXISTING AIR DEVICE'S AIRFLOW.
2. REMOVE EXISTING WALL MOUNTED HYDRONIC RADIATOR AND PREPARE FOR CONNECTION TO NEW RADIATOR OF SIMILAR SIZE. INSTALL NEW RADIATOR IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. FIELD VERIFY EXISTING SIZE AND CAPACITY PRIOR TO ORDERING.
3. REMOVE EXISTING HYDRONIC CABINET UNIT HEATER AND PREPARE FOR CONNECTION TO NEW HEATER OF SIMILAR SIZE. INSTALL NEW HEATER IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. FIELD VERIFY EXISTING SIZE AND CAPACITY PRIOR TO ORDERING.
4. REMOVE EXISTING HYDRONIC UNIT HEATER AND PREPARE FOR CONNECTION TO NEW UNIT HEATER OF SIMILAR SIZE. INSTALL NEW UNIT HEATER IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. FIELD VERIFY EXISTING SIZE AND CAPACITY PRIOR TO ORDERING.

FIELD VERIFY QUANTITY AND LOCATION OF SUPPLY/EXHAUST/RETURN AIR DIFFUSER(S) PRIOR TO BIDDING.

1 MECHANICAL 2ND FLOOR PLAN
SCALE: 1/8"=1'-0"



BRADLEY E. CHAM_\nLICENSED PROFESSIONAL ENGINEER
December 2019

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SHEET TITLE:
MECHANICAL
ROOF PLAN

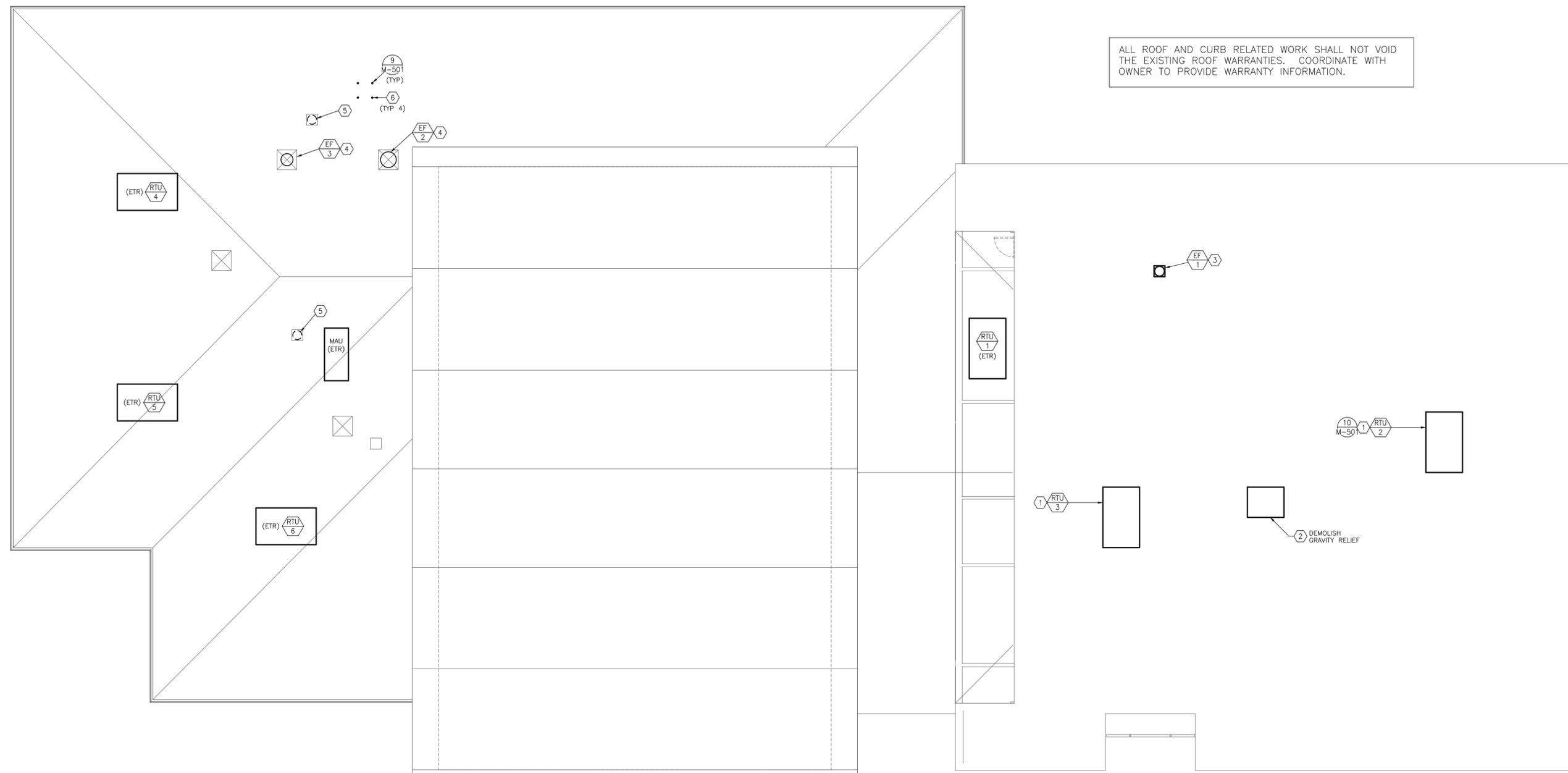
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M-201

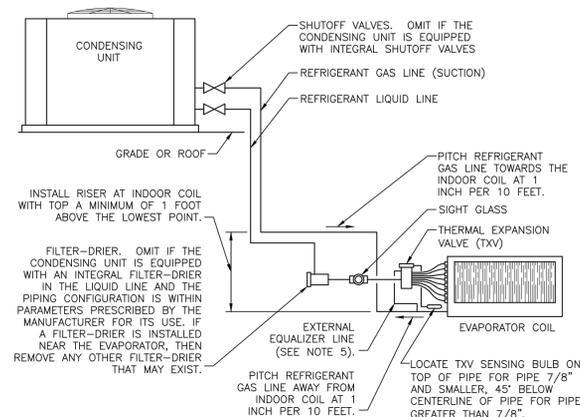
MECHANICAL PLAN NOTES:

1. REMOVE EXISTING ROOF TOP UNIT AND PREPARE DUCTWORK, CURB, GAS PIPING, AND ELECTRICAL SERVICE FOR CONNECTION TO NEW ROOF TOP UNIT. PROVIDE CURB ADAPTOR IF NECESSARY. CONNECT NEW ROOF TOP UNIT TO EXISTING DUCTWORK, GAS PIPING, AND ELECTRICAL. ALTER EXISTING CONDITIONS AS NECESSARY FOR CONNECTION TO NEW UNIT.
2. REMOVE EXISTING GRAVITY RELIEF HOOD. CAP EXISTING ROOF CURB WITH SHEETMETAL CAP, INSULATED WITH MINIMUM R-8 AND SLOPED TO SHED WATER.
3. REMOVE EXISTING EXHAUST FAN AND REPLACE WITH NEW ON EXISTING CURB. TRANSITION FROM EXISTING DUCTWORK TO NEW FAN AS REQUIRED.
4. NEW ROOF MOUNTED EXHAUST FAN. ROUTE EXHAUST DUCT UP FROM SPACE AND TRANSITION TO FAN ON ROOF AS REQUIRED. FAN TO MOUNT ON EXISTING ROOF CURB. PROVIDE CURB ADAPTER, SEALED WATERTIGHT, FROM EXISTING CURB TO NEW FACTORY PROVIDED EXHAUST FAN CURB. FIELD VERIFY EXISTING CURB SIZE. ENSURE NEW FAN IS GREATER THAN OR EQUAL TO 10' AWAY FROM ALL OPERABLE WINDOWS AND MECHANICAL AIR INTAKES.
5. REMOVE EXISTING TURBINE STYLE VENT AND ASSOCIATED DUCTWORK DOWN TO 12" ABOVE ROOF SURFACE AND PROVIDE SLOPED, INSULATED CAP ON TOP OF DUCTWORK SEALED WATERTIGHT.
6. PROVIDE VENT THRU ROOF FOR INSTANTANEOUS WATER HEATER BELOW. MAINTAIN MINIMUM 2'-0" SEPARATION BETWEEN VENT TERMINATIONS. TERMINATE VENT MINIMUM 3'-0" ABOVE FINISHED ROOF SURFACE. FOR ROOF PENETRATION, REFER TO PIPE THROUGH ROOF VIA CURB DETAIL 9/M-501.

ALL ROOF AND CURB RELATED WORK SHALL NOT VOID THE EXISTING ROOF WARRANTIES. COORDINATE WITH OWNER TO PROVIDE WARRANTY INFORMATION.

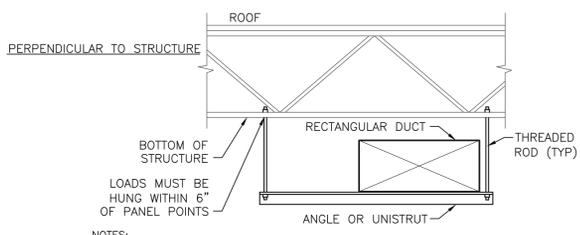
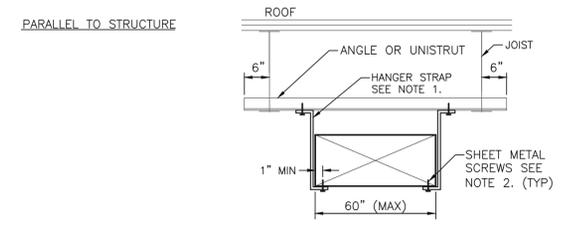


1 MECHANICAL ROOF PLAN
SCALE: 1/8"=1'-0"



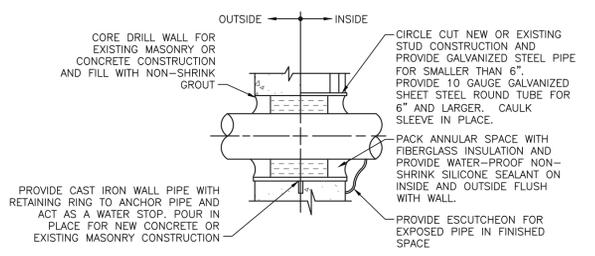
- NOTES:**
1. INSTALL REFRIGERANT PIPING AND COMPONENTS IN STRICT CONFORMANCE WITH ALL MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS, WHICH SHALL TAKE PRECEDENT OVER INFORMATION PRESENTED IN THIS DETAIL.
 2. ALL COMPONENTS INSTALLED SHALL BE THE EXACT MODEL RECOMMENDED BY THE MANUFACTURER WITHOUT EXCEPTION.
 3. CONSULT THE MANUFACTURER REGARDING THE NEED TO INSTALL A SOLENOID VALVE IN THE LIQUID LINE BETWEEN THE FILTER-DRIER AND SITE GLASS.
 4. INSTALL REFRIGERATION PIPE SIZES RECOMMENDED BY THE MANUFACTURER AND CONSULT THE MANUFACTURER REGARDING THE NEED FOR INTERMEDIATE TRAPS BASED ON THE RECOMMENDED PIPE SIZES AND PIPING CONFIGURATION.
 5. INSTALL THERMAL EXPANSION VALVE WITH BALANCED PORT CONSTRUCTION AND EXTERNAL EQUALIZER LINES FOR ALL EVAPORATOR COILS EQUIPPED WITH A REFRIGERANT DISTRIBUTOR.

1 REFRIGERANT PIPING DETAIL (SINGLE CIRCUIT WITH COIL ABOVE OR BELOW CU)
NO SCALE



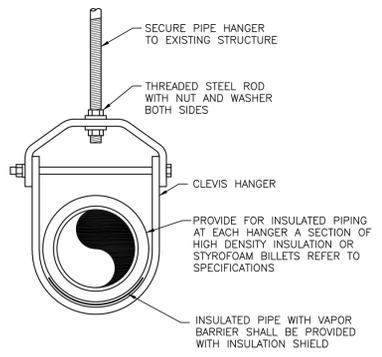
- NOTES:**
1. USE THREADED ROD FOR ALL DUCTS LARGER THAN 60% WIDE.
 2. SHEET METAL SCREWS MAY BE OMITTED IF HANGER STRAP IS CONTINUOUS AND LOOPS UNDER ENTIRE DUCT.

2 RECTANGULAR DUCT SUPPORT DETAIL
NO SCALE

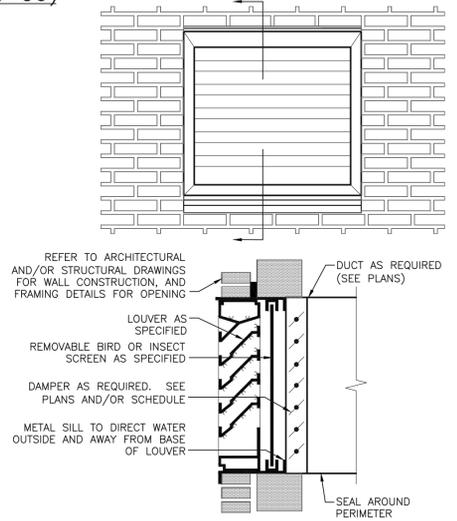


- NOTES:**
1. PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. REFER TO SPECIFICATIONS FOR MORE INFORMATION ON INSULATION AND SEALANT. COORDINATE SLEEVE INSTALLATION WITH DIVISION 1 CONTRACTOR. PVC SLEEVES ARE ACCEPTABLE FOR USE IN AREAS WITHOUT RETURN AIR PLENUMS.

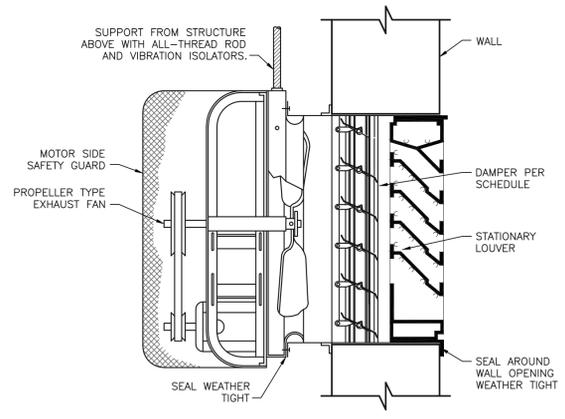
3 ABOVE GROUND EXTERIOR WALL PENETRATION DETAIL
NO SCALE



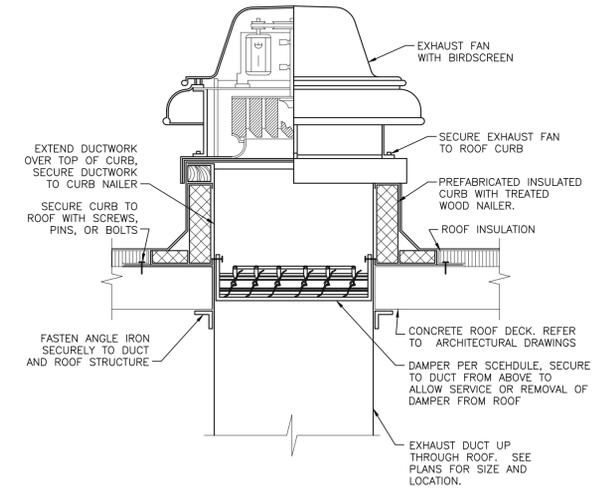
4 PIPE HANGER DETAIL
NO SCALE



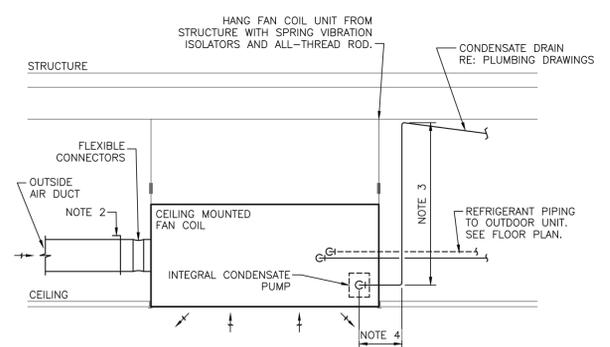
5 INTAKE LOUVER INSTALLATION DETAIL
NO SCALE



6 SIDE WALL PROPELLER EXHAUST FAN WITH LOUVER DETAIL
NO SCALE

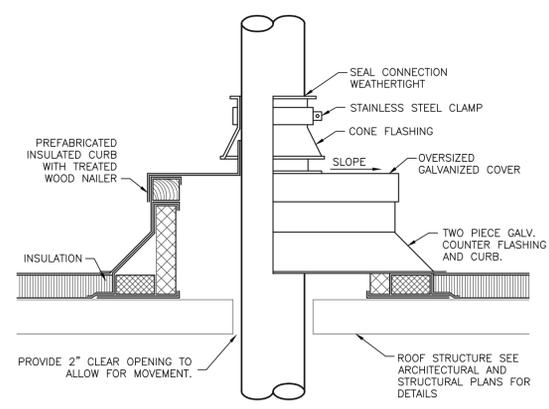


7 DOWNBLAST EXHAUST FAN DETAIL
NO SCALE

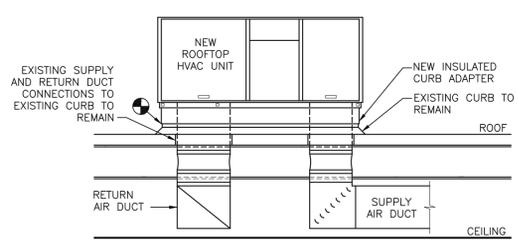


- NOTES:**
1. ARRANGEMENT SHOWN IS SCHEMATIC, ADJUST TO SUIT FIELD CONDITIONS OR MEET LOCAL CODE REQUIREMENTS.
 2. SET DAMPER TO DELIVER SCHEDULED OUTSIDE AIRFLOW.
 3. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR MAXIMUM CONDENSATE DRAIN LIFT LENGTHS.
 4. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR HORIZONTAL CONDENSATE DRAIN CONNECTION FROM THE UNIT.

8 CEILING CASSETTE FAN COIL UNIT
NO SCALE



9 PIPE THROUGH ROOF VIA CURB
NO SCALE



- NOTES:**
1. CURB ADAPTER SHALL INCLUDE ALL REQUIRED SUPPLY AND RETURN DUCT TRANSITIONS TO ENABLE THE NEW ROOFTOP TO BE INSTALLED WITHOUT NECESSITATING DUCT MODIFICATIONS BELOW THE ROOF.
 2. INSTALL ADAPTER CURB AND ROOFTOP UNIT IN A MANNER THAT ENSURES A WEATHER TIGHT INSTALLATION.

10 ROOFTOP UNIT REPLACEMENT UTILIZING ADAPTER CURB
NO SCALE



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MECHANICAL
DETAILS

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M-501

LOUVER SCHEDULE LV

MARK	SERVICE	MANUFACTURER	MODEL	SIZE (W x H)	CFM	MIN. FREE AREA (SF)	MAX. VEL. (FPM)	MAX. P.D. (IN. W.C.)	NOTES
LV-1	INTAKE	RUSKIN	ELF6375DX	48X48	7420	9	820	0.05	A-H
LV-2	EXHAUST	RUSKIN	ELF6375DX	48X48	3710	8.9	500	0.05	A-H
LV-3	EXHAUST	RUSKIN	ELF6375DX	48X48	3710	8.9	500	0.05	A-H

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:

A. PROVIDE 1/2" MESH STEEL BIRD SCREEN.
 B. PROVIDE STANDARD MILL FINISH.
 C. FRAME TYPE SHALL MATCH WALL CONSTRUCTION. COORDINATE WITH ARCHITECT.
 D. PROVIDE WITH INTEGRAL 24 V MOTOR OPERATED DAMPER.
 E. INTERLOCK MOTOR-OPERATED DAMPER WITH EXHAUST FAN F-1 AND F-2 TO OPEN WHILE FAN IS OPERATIONAL.
 F. PROVIDE WINDBOURNE-DEBRIS-IMPACT RESISTANCE LOUVER.
 G. PROVIDE LOUVER WITH WIND DRIVEN RAIN PERFORMANCE AS DEFINED IN THE SPECIFICATIONS.
 H. PROVIDE SNOWELIMINATOR FACTORY INSTALLED WITH LOUVER.

RUSKIN IS BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ADDITIONAL APPROVED MANUFACTURERS.

FAN SCHEDULE EF F

MARK	SERVICE DESCRIPTION	MANUFACTURER	MOUNTING	MODEL	CFM	ESP (IN)	BHP	FAN RPM	DRIVE (BELT/DIRECT)	VFD (Y/N)	ELECTRICAL		WEIGHT (LBS)	NOTES
											V/PH	DISC TYPE		
EF-1	EXHAUST	GREENHECK	ROOF	GB-141	1465	0.5	1/3	1078	BELT	N	120/1	NON-FUSED	64	A,B,D,E,F,H
EF-2	EXHAUST	GREENHECK	ROOF	G-095-V8	690	0.375	1/8	1505	DIRECT	N	120/1	NON-FUSED	38	A,B,D,E,J,H
EF-3	EXHAUST	GREENHECK	ROOF	G-095-V8	290	0.375	1/8	1435	DIRECT	N	120/1	NON-FUSED	38	A,B,D,E,J,H
F-1	EXHAUST	GREENHECK	WALL	SBE-1L20	3710	0.125	1/3	871	BELT	N	120/1	NON-FUSED	66	B,C,D,E,G,H
F-2	EXHAUST	GREENHECK	WALL	SBE-1L20	3710	0.125	1/3	871	BELT	N	120/1	NON-FUSED	66	B,C,D,E,G,H

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NOTES:

A. PROVIDE A CURB ADAPTER TO TRANSITION FROM THE EXISTING ROOF CURB TO THE NEW EXHAUST FAN. FIELD VERIFY SIZE AND REQUIREMENTS.
 B. PROVIDE BIRDSCREEN AND GRAVITY BACKDRAFT DAMPER.
 C. PROVIDE FAN COMPLETE WITH WEATHERHOOD AND OSHA MOTOR SIDE GUARD.
 D. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
 E. DIVISION 28 CONTRACTOR TO FURNISH STARTER.
 F. INTERLOCK FAN OPERATION WITH TIMELOCK.
 G. INTERLOCK EACH FAN OPERATION WITH AN INDEPENDENT THERMOSTAT. SET (1) THERMOSTAT AT 80°F AND (1) AT 84°F.
 H. NOMINAL MOTOR HP SHALL BE NO LARGER THAN THE FIRST AVAILABLE NOMINAL MOTOR SIZE GREATER THAN THE BHP.
 J. INTERLOCK FAN OPERATION WITH LIGHT SWITCH.

GREENHECK IS BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ADDITIONAL APPROVED MANUFACTURERS.

UNIT HEATER SCHEDULE (NATURAL GAS) GUH

MARK	MANUFACTURER	MODEL	MIN OUT (MBH)	MIN EFF (%)	GAS VALVE TYPE	CFM	MOTOR HP	THROW (FT)	V/PH	DISC TYPE	NOTES
GUH-1	REZTOR	UDAS30	24.6	82	STAGED	450	1/20	15	240/3	NF	A-H

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:

A. MOUNT 12" BELOW CEILING WITHOUT OBSTRUCTING AIRFLOW.
 B. PROVIDE WITH WALL MOUNTED THERMOSTAT.
 C. PROVIDE MANUAL SUMMER/WINTER CHANGE-OVER SWITCH.
 D. PROVIDE NECESSARY MOUNTING BRACKET AND ACCESSORIES FOR HORIZONTAL HANGING.
 E. DISCONNECT SWITCH PROVIDED BY DIVISION 26 CONTRACTOR.
 F. SEALED COMBUSTION UNIT HEATER. PROVIDE WITH CONCENTRIC ROOF TERMINATION KIT
 G. PROVIDE WITH ALUMINIZED STEEL HEAT EXCHANGER.
 H. PROVIDE ELECTRONIC OPERATED GAS CONTROL VALVE.

REZTOR IS BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ADDITIONAL APPROVED MANUFACTURERS.

UNIT HEATER SCHEDULE (ELECTRIC) EWH

MARK	MANUFACTURER	MODEL	MIN OUT (MBH)	NOM (KW)	MIN NO OF STAGES	LENGTH (FT)	AMPS	V/PH	DISC TYPE	NOTES
EWH-1	BERKO	BKOC25026W	1706	0.5	1	2.5	2.4	208/1	NF	A-D
EWH-2	BERKO	BKOC2506W	5120	1.5	1	6	7.2	208/1	NF	A-D
EWH-2	BERKO	BKOC2506W	5120	1.5	1	6	7.2	208/1	NF	A-D

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:

A. MOUNT 6" ABOVE FINISHED FLOOR WITHOUT OBSTRUCTING AIRFLOW.
 B. PROVIDE WITH UNIT MOUNTED TAMPER RESISTANT THERMOSTAT.
 C. PROVIDE NECESSARY MOUNTING BRACKET AND ACCESSORIES FOR SURFACE WALL MOUNTING.
 D. PROVIDE FACTORY MOUNTED DISCONNECT INSTALLED ON SERVICE SIDE OF UNIT.

BERKO IS BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ADDITIONAL APPROVED MANUFACTURERS.

HOT WATER BASEBOARD HEATER SCHEDULE R

MARK	MANUFACTURER	MODEL	LENGTH (IN)	SIZE (IN)	MIN. OUTPUT (MBH)	EWT (°F)	LWT (°F)	ENT. AIR TEMP (°F)	FLOW (GPM)	INTAKE	OUTLET	MOUNTING TYPE	NOTES
R-1	MQUAY	F CHF	36	24	2	180	160	68	0.5	BOTTOM	TOP	WALL	A-D
R-2	MQUAY	F CHF	24	24	1.1	180	160	68	0.5	BOTTOM	TOP	WALL	A-D
R-3	MQUAY	F CHF	12	24	0.7	180	160	68	0.5	BOTTOM	TOP	WALL	A-D
R-4	MQUAY	F CHF	30	24	1.8	180	160	68	0.5	BOTTOM	TOP	WALL	A-D
R-5	MQUAY	F CHF	30	24	1.8	180	160	68	0.5	BOTTOM	TOP	WALL	A-D
R-6	MQUAY	F CHF	24	24	1.4	180	160	68	0.5	BOTTOM	TOP	WALL	A-D
R-7	MQUAY	F CHF	42	24	2.3	180	160	68	0.5	BOTTOM	TOP	WALL	A-D
R-8	MQUAY	F CHF	42	24	2.3	180	160	68	0.5	BOTTOM	TOP	WALL	A-D
R-9	MQUAY	F CHF	24	24	1.4	180	160	68	0.5	BOTTOM	TOP	WALL	A-D
R-10	MQUAY	F CHF	30	24	1.8	180	160	68	0.5	BOTTOM	TOP	WALL	A-D
R-11	MQUAY	F CHF	30	24	1.8	180	160	68	0.5	BOTTOM	TOP	WALL	A-D
R-12	MQUAY	F CHF	30	24	1.8	180	160	68	0.5	BOTTOM	TOP	WALL	A-D

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:

MQUAY IS BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ADDITIONAL APPROVED MANUFACTURERS.

A. PROVIDE NECESSARY MOUNTING BRACKETS AND ACCESSORIES (UNIT SHALL BE APPROVED FOR ZERO CLEARANCE).
 B. PROVIDE WITH INTEGRAL TAMPER PROOF THERMOSTAT AND DISCONNECT SWITCH.
 C. ENCLOSURE SHALL BE STEEL WITH BAKED ENAMEL FINISH (COLOR BY ARCHITECT). AIR GRILLES SHALL BE EXTRUDED ALUMINUM WITH CLEAR ANODIZED ALUMINUM FINISH.
 D. PROVIDE 6" HIGH SUPPORT LEGS FOR FLOOR-MOUNTED UNITS.

HOT WATER UNIT HEATER SCHEDULE HUH

MARK	MANUFACTURER	MODEL	MIN. OUTPUT (MBH)	EWT (°F)	LWT (°F)	ENT. AIR TEMP (°F)	FLOW (GPM)	ELECTRICAL		CFM	INTAKE	OUTLET	MOUNTING TYPE	NOTES
								V/PH	HP					
HUH-1	TRANE	UHS	13.4	180	160	68	1	120/1	1/20	543	BACK	FRONT	HANGING	A-D
HUH-2	TRANE	UHS	13.4	180	160	68	1	120/1	1/20	543	BACK	FRONT	HANGING	A-D
HUH-3	TRANE	UHS	7.7	180	160	68	0.85	120/1	1/50	315	BACK	FRONT	HANGING	A-D
HUH-4	TRANE	UHS	13.7	180	160	68	1	120/1	1/20	543	BACK	FRONT	HANGING	A-D
HUH-5	TRANE	UHS	7.7	180	160	68	0.85	120/1	1/50	315	BACK	FRONT	HANGING	A-D
HUH-6	TRANE	UHS	13.4	180	160	68	1	120/1	1/20	543	BACK	FRONT	HANGING	A-D
HUH-7	TRANE	UHS	13.4	180	160	68	0.85	120/1	1/20	543	BACK	FRONT	HANGING	A-D
HUH-8	TRANE	UHS	13.4	180	160	68	1	120/1	1/20	543	BACK	FRONT	HANGING	A-D
HUH-9	TRANE	UHS	4.9	180	160	68	1	120/1	1/50	280	BACK	FRONT	HANGING	A-D
HUH-10	TRANE	UHS	3.6	180	160	68	1	120/1	1/50	280	BACK	FRONT	HANGING	A-D
HUH-11	TRANE	UHS	4.0	180	160	68	1	120/1	1/50	280	BACK	FRONT	HANGING	A-D

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:

TRANE IS BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ADDITIONAL APPROVED MANUFACTURERS.

A. PROVIDE NECESSARY HANGING MOUNTING BRACKETS AND ACCESSORIES (UNIT SHALL BE APPROVED FOR ZERO CLEARANCE).
 B. PROVIDE WITH DISCONNECT SWITCH AND REMOTE WALL MOUNTED THERMOSTAT.
 C. ENCLOSURE SHALL BE STEEL WITH BAKED ENAMEL FINISH (COLOR BY ARCHITECT). AIR GRILLES SHALL BE EXTRUDED ALUMINUM WITH CLEAR ANODIZED ALUMINUM FINISH.
 D. NOT USED.

HOT WATER CABINET HEATER SCHEDULE CUH

MARK	MANUFACTURER	MODEL	LENGTH (IN)	SIZE (IN)	MIN. OUTPUT (MBH)	EWT (°F)	LWT (°F)	ENT. AIR TEMP (°F)	FLOW (GPM)	ELECTRICAL		INTAKE	OUTLET	MOUNTING TYPE	NOTES
										V/PH	HP				
CUH-1	MQUAY	F CHF	36	24	14.3	180	160	68	1.00	120/1	1/12	BOTTOM	TOP	WALL	A-D
CUH-2	MQUAY	F CHF	24	24	17.3	180	160	68	1.00	120/1	1/12	BOTTOM	TOP	WALL	A-D
CUH-3	MQUAY	F CHF	12	24	17.3	180	160	68	1.00	120/1	1/12	BOTTOM	TOP	WALL	A-D
CUH-4	MQUAY	F CHF	30	24	16	180	160	68	1.50	120/1	1/12	BOTTOM	TOP	WALL	A-D
CUH-5	MQUAY	F CHF	30	24	6.8	180	160	68	0.75	120/1	1/12	BOTTOM	TOP	WALL	A-D
CUH-6	MQUAY	F CHF	24	24	9.4	180	160	68	0.75	120/1	1/12	BOTTOM	TOP	WALL	A-D

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:

MQUAY IS BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ADDITIONAL APPROVED MANUFACTURERS.

A. PROVIDE NECESSARY MOUNTING BRACKETS AND ACCESSORIES (UNIT SHALL BE APPROVED FOR ZERO CLEARANCE).
 B. PROVIDE WITH INTEGRAL TAMPER PROOF THERMOSTAT AND DISCONNECT SWITCH.
 C. ENCLOSURE SHALL BE STEEL WITH BAKED ENAMEL FINISH (COLOR BY ARCHITECT). AIR GRILLES SHALL BE EXTRUDED ALUMINUM WITH CLEAR ANODIZED ALUMINUM FINISH.
 D. FLOOR MOUNTED UNIT.

GRILLE, REGISTER AND DIFFUSER SCHEDULE

MARK	MANUFACTURER	SERVICE	MODEL	FACE TYPE	MOUNTING LOCATION	BORDER TYPE	FACE SIZE (IN)	MAX. NC	MAX. PRESS. DROP (IN. W.C.)	NOTES
SAG	TITUS	SUPPLY	TMS	LAY-IN	CEILING	25	24X24	25	0.1	A,B,C,H
RAG	TITUS	SUPPLY	50F	GRILLE	CEILING	25	SEE PLANS	25	0.1	A,B,C,H
EAG	TITUS	EXHAUST	355FL	GRILLE	CEILING	25	SEE PLANS	25	0.1	A,B,C,H
SAW	TITUS	SUPPLY	300RS	DEFLECTION	DUCT	25	SEE PLANS	25	0.1	A-H
RAW	TITUS	RETURN	25R	LOUVERED	DUCT/WALL	25	SEE PLANS	25	0.1	A,B,C,F,G,H

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:

TITUS IS BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ADDITIONAL APPROVED MANUFACTURERS.

A. NECK SIZE SHOWN ON DRAWINGS.
 B. BRANCH DUCT SIZE SHALL BE SAME AS NECK SIZE UNLESS OTHERWISE SHOWN ON DRAWINGS.
 C. BAKED ENAMEL FINISH, WHITE TO MATCH CEILING/WALL COLOR.
 D. FRONT BLADES PARALLEL TO LONG DIMENSION.
 E. DOUBLE DEFLECTION BARS SHALL BE ADJUSTABLE.
 F. PROVIDE NECK FOR DUCT CONNECTION.
 G. PROVIDE OPPOSED BLADE DAMPER ADJUSTABLE FROM FACE OF DEVICE.
 H. ALUMINUM CONSTRUCTION.

NOTE: SAG - SUPPLY AIR GRILLE, RAG - RETURN AIR REGISTER, EAG - EXHAUST AIR GRILLE, SAW - SUPPLY AIR GRILLE (WALL), RAW - RETURN AIR REGISTER (WALL)

STATE OF MISSOURI
 MICHAEL L. PARSON
 GOVERNOR



BRADLEY E. CHAMBERLAIN
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 2019

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OFFICE OF ADMINISTRATION
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 DESIGN AND
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MISSOURI NATIONAL GUARD

RENOVATE EXTERIOR &
 INTERIOR LEXINGTON
 READINESS CENTER

408 S. 26TH STREET
 LEXINGTON, MISSOURI

PROJECT #: T1906-01
 SITE #: 6264
 ASSET #: 8136264001

REVISION:
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 DATE: _____
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 DATE: _____
 REVISION:
 DATE: _____
 ISSUE DATE: 12-9-19

CAD DWG FILE: M-FP-6.DWG
 DRAWN BY: HEI
 CHECKED BY: HEI
 DESIGNED BY: HEI

SHEET TITLE:
 MECHANICAL
 SCHEDULES

SHEET NUMBER:

M-601

SEQUENCE OF OPERATIONS:

DUCTLESS SPLIT SYSTEM CONTROL (AC-1, AC-2, AC-3 / ACU-1, ACU-2, ACU-3)

DURING OCCUPIED HOURS (6AM TO 6PM), OPERATE DUCTLESS SPLIT SYSTEM SUPPLY FAN CONTINUOUSLY AND OPEN OUTDOOR AIR DAMPER TO MAINTAIN MINIMUM VENTILATION. CYCLE STAGE(S) OF DX COOLING AND HEAT PUMP HEATING TO MAINTAIN ROOM THERMOSTAT SET POINT (72 DEGREES FAHRENHEIT COOLING, 72 DEGREES FAHRENHEIT HEATING ADJUSTABLE).

DURING UNOCCUPIED HOURS, CYCLE THE DUCTLESS SPLIT SYSTEM SUPPLY FAN AND COOLING OR HEATING SYSTEM TO MAINTAIN TEMPERATURE SET POINTS. OUTDOOR AIR DAMPER SHALL BE CLOSED DURING UNOCCUPIED HOURS.

ROOFTOP UNIT CONTROL MATRIX				
CONTROL FEATURE	UNITS	RTU-2 SETPOINT OR Y/N	RTU-3 SETPOINT OR Y/N	NOTES
SETPOINTS				
COOLING - OCCUPIED SETPOINT	*F	75	75	
COOLING - UNOCCUPIED SETPOINT	*F	80	80	
DEAD BAND - MINIMUM HEATING AND COOLING TEMPERATURE SETPOINT DIFFERENCE	*F	5	5	
HEATING - OCCUPIED SETPOINT	*F	70	70	
HEATING - UNOCCUPIED SETPOINT	*F	60	60	
PROGRAMMED CONTROL FEATURES				
HVAC SYSTEM OCCUPIED/UNOCCUPIED MODE - PROGRAMMABLE THERMOSTAT		Y	Y	B
EQUIPMENT ACCESSORIES AND CONTROL MODULES				
OUTSIDE AIR DAMPER - MOTOR OPERATED (2-POSITION)		Y	Y	K
RELIEF - CONSTANT VOLUME POWERED EXHAUST FAN	IN. W.C.	Y	Y	H
LOW AMBIENT CONTROL KIT	*F	25 F	25 F	
COOLING COIL (DX - STAGED)		Y	Y	M
HEATING COIL (NATURAL GAS)		Y	Y	M
SUPPLY FAN CONTROL METHODS				
ON DURING OCCUPIED HOURS		Y	Y	
CONSTANT VOLUME FAN CONTROL		N	N	
SAFETIES, INTERLOCKS, AND ALARMS				
GAS VALVE SAFETY		Y	Y	F
DIV. 23 CONTRACTOR SHALL PROVIDE CONTROL PANEL(S), WIRING, THERMOSTAT(S), TEMPERATURE SENSOR(S), HUMIDISTAT(S), AND/OR CO2 SENSOR(S) WHERE SHOWN ON THE DRAWINGS AND AS REQUIRED TO FACILITATE THE SCHEDULED CONTROL MODULES AND SEQUENCES OF OPERATION. EACH UNIT SHALL CONTROL BASED ON ITS OWN INTERNAL SAFETIES, TIME DELAYS, AND SEQUENCES UNLESS NOTED OTHERWISE. COORDINATE WITH OWNER FINAL BUILDING AND EQUIPMENT SCHEDULES DURING STARTUP. REFERENCE DIVISION SPECIFICATIONS FOR INDIVIDUAL DEVICE REQUIREMENTS.				
NOTES:				
B. DIVISION 23 CONTRACTOR SHALL PROVIDE DEVICE.				
F. DEVICE SHALL BE FACTORY MOUNTED AND PRE-WIRED FOR OPERATION SUBJECT TO THE ONBOARD CONTROLLER.				
H. POWERED EXHAUST FAN SHALL STAGE ON AND OFF ACCORDING TO DAMPER POSITION.				
K. DETERMINE MINIMUM DAMPER POSITION IN FIELD DURING BALANCING TO PROVIDE SCHEDULED OUTDOOR AIRFLOW DURING OCCUPIED HOURS. DAMPER SHALL BE CLOSED DURING UNOCCUPIED HOURS.				
M. UNITARY CONTROLLER SHALL MODULATE AND/OR CYCLE SUPPLY FAN SPEED SETTING AND COIL CAPACITY STAGES SUBJECT TO THE INTERNAL SAFETIES AND SEQUENCES TO MAINTAIN SCHEDULED SETPOINTS.				

ROOFTOP UNIT SCHEDULE (DX COOLING, NATURAL GAS HEAT)

MARK	MANUFACTURER	MODEL	UNIT TYPE	SUPPLY FAN			COOLING COIL								HEAT EXCHANGER						MIN O/A CFM	ELECTRICAL			WEIGHT (LBS)	NOTES				
				CFM	ESP (IN)	NOM HP	VFD (Y/N)	TH (MBH)	SH (MBH)	EAT		LAT	REFR TYPE	MIN EFF (EER)	MIN NO STAGES	MIN OUT (MBH)	NOM INPUT (MBH)	MIN EFF (%)	EAT	LAT		MIN NO STAGES	VPH	MCA			MCCP	DISC TYPE		
RTU-2	TRANE	YSD150	SINGLE	5,000	1	3.00	N	139.2	130	83	68	55	54	R-410A	---	11	2	200	250	80	63.5	90	2	500	208/3	61	80	HACR	1500	A-S
RTU-3	TRANE	YSC048	SINGLE	1,350	0.5	1.0	N	45	40	83	69	55	54	R-410A	12	14	1	81	100	81	63.5	90	2	135	208/3	26	35	HACR	500	A-S

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:

- A. REFER TO ROOFTOP UNIT CONTROL MATRIX FOR CONTROL FEATURES, MODULES, AND ACCESSORIES THAT SHALL BE PROVIDED WITH THE EQUIPMENT.
- B. EQUIPMENT SIZED FOR 105°F AMBIENT TEMPERATURE.
- C. PROVIDE 2 INCH MERV 8, EFFICIENT PLEATED THROWAWAY AIR FILTERS.
- D. PROVIDE FACTORY MOUNTED DISCONNECT INSTALLED ON SERVICE SIDE OF UNIT.
- F. PROVIDE SHAFT GROUNDING SYSTEM ON MOTOR. REFER TO MOTOR SPECIFICATION FOR ADDITIONAL INFORMATION.
- G. PROVIDE SINGLE POINT POWER CONNECTION.
- H. COORDINATE SIZE OF CONDUCTOR TERMINATION LUGS WITH CONDUCTOR SIZES SHOWN ON ELECTRICAL DRAWINGS.
- J. PROVIDE DUPLEX RECEPTACLE MOUNTED ON UNIT FOR FIELD WIRING.
- K. SPECIFIED FAN ESP ACCOUNTS FOR DUCT LOSSES EXTERNAL TO UNIT.
- L. PROVIDE MOTOR HORSEPOWER TO OVERCOME INTERNAL UNIT STATIC PRESSURE DROP PLUS SPECIFIED EXTERNAL STATIC PRESSURE DROP. NOMINAL MOTOR HP SHALL BE NO LARGER THAN THE FIRST AVAILABLE NOMINAL MOTOR SIZE GREATER THAN THE REQUIRED BHP.
- M. PROVIDE STANDARD ROOF CURB ADAPTER.
- N. SCHEDULED WEIGHT IS THE MAXIMUM ALLOWABLE OPERATING WEIGHT OF THE EQUIPMENT.
- O. COOLING COIL LAT IS LEAVING AIR TEMPERATURE OF COIL.
- P. PROVIDE GUARDS TO PROTECT CONDENSER COIL FROM HAIL OR OTHER DAMAGE.
- Q. PROVIDE HEATER TO MEET OR EXCEED SCHEDULED MINIMUM MBH OUTPUT. NOMINAL INPUT IS BASED ON LISTED MANUFACTURER'S STANDARD PRODUCT. COORDINATE EQUIPMENT GAS LOAD WITH PLUMBING CONTRACTOR IF DIFFERENT FROM THAT SCHEDULED. MEET MINIMUM EFFICIENCY SCHEDULED.
- R. SELECT EQUIPMENT FOR ELEVATION OF 1000 FEET ABOVE SEA LEVEL.
- S. PROVIDE UNIT WITH POWERED EXHAUST FACTORY MOUNTED.

TRANE IS BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ADDITIONAL APPROVED MANUFACTURERS.

DUCTLESS SPLIT SYSTEM HEAT PUMP

MARK	SERVICE	MANUFACTURER	MODEL (INDOOR/ OUTDOOR)	REFR. TYPE	COOLING TOTAL CAPACITY (MBH)	SEER	HEATING TOTAL CAPACITY (MBH)	COP	INDOOR UNIT (CRU)			OUTDOOR UNIT (CU)			NOTES		
									CFM	VPH	MCA/MOP	O/A CFM	COOLING AMB (°F)	HEATING AMB (°F)		VPH	MCA/MOP
AC-1/ACU-1	NEW OFFICE 103	MITSUBISHI	SLZ-KA09NA/SUZ-KA09NA	R-410A	8.4	15	10.9	3.4	250-320	208/1	1/15	40	105	-4	208/1	12/15	A - K, M
AC-2/ACU-2	NEW OFFICE 106	MITSUBISHI	SLZ-KA09NA/SUZ-KA09NA	R-410A	8.4	15	10.9	3.4	250-320	208/1	1/15	40	105	-4	208/1	12/15	A - K, M
AC-3/ACU-3	STORAGE 143	MITSUBISHI	MSZ-WR18NA/MUZ-WR18NA	R-410A	17.2	16	18	3.2	328-625	208/1	1/15	15	105	-4	208/1	10/15	A, C, D, F, G, J, K, L, M

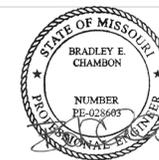
NOTES:

- A. CONTRACTOR SHALL VERIFY EXACT QUANTITY AND SIZE OF REFRIGERANT PIPING.
- B. INDOOR UNIT TO BE MOUNTED IN CEILING IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. FIELD COORDINATE AS REQUIRED.
- C. PROVIDE WALL-MOUNTED WIRELESS THERMOSTAT BY THE MANUFACTURER WITH PROGRAMMABLE SCHEDULE.
- D. PROVIDE REFRIGERANT, CONDENSATE DRAIN AND POWER CONNECTIONS ON THE SIDE OF THE UNIT.
- E. PROVIDE INDOOR UNIT WITH INTEGRAL CONDENSATE PUMP AND FLOAT-SWITCH TO SHUTDOWN UNIT IF CONDENSATE PUMP FAILS.
- F. DIVISION 26 CONTRACTOR SHALL PROVIDE NONFUSED DISCONNECT SWITCH. COORDINATE WITH ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- G. PROVIDE UNIT WITH LOW-AMBIENT KIT.
- J. POWER CONNECTION FOR INDOOR MOUNTED UNIT IS POWERED FROM ONE POWER CONNECTION THRU CONDENSING UNIT. COORDINATE WITH MANUFACTURER RECOMMENDATION.
- K. EQUIPMENT SHALL BE CAPABLE OF PROVIDING COOLING DOWN TO OUTDOOR AMBIENT TEMPERATURE OF 15°DB AND HEATING DOWN TO OUTDOOR AMBIENT TEMPERATURE OF -4°DB.
- L. INDOOR UNIT TO BE MOUNTED ON WALL AT 16" AFF (BELOW WINDOW) IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. FIELD COORDINATE AS REQUIRED.
- M. MOUNT HEAT PUMP UNIT ON GROUND WITH 4" THICK CONCRETE PAD 6" LARGER THAN UNIT ON ALL SIDES. PROVIDE WITH FACTORY OUTDOOR AIR INTAKE LOUVER.

MITSUBISHI IS BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ADDITIONAL APPROVED MANUFACTURERS.

OUTSIDE AIR REQUIREMENTS, IMC 2018-SINGLE ZONE SYSTEMS

Ventilation Zone	Associated System	ASHRAE Space Use Category	FLOOR AREA SERVED BY SYSTEM [As] (SF)	SYSTEM AVERAGED AREA BASED OUTDOOR AIR RATE (CFM/SF)	SYSTEM POPULATION [Ps] (PEOPLE)	SYSTEM AVERAGED PEOPLE BASED OUTDOOR AIR RATE (CFMP)	ADJUST CALCULATIONS FOR 30% EXCESS OUTSIDE AIR FLOW	ZONE DCV CONTROL	REQUIRED OA INTAKE FLOW [Vot] (CFM)	REQUIRED DCV OA INTAKE FLOW [Vot] (CFM)	DESIGN OA INTAKE FLOW (CFM)
103 - OFFICE	AC-1	Office spaces	115	0.06	0.575	5		NO	12	N/A	40
106 - OFFICE	AC-2	Office spaces	115	0.06	0.575	5		NO	12	N/A	40
NEW OFFICE (ADJ KITCHEN)	AC-3	Office spaces	115	0.06	0.575	5		NO	12	N/A	15
SYSTEM TOTALS			345		2						
			Total Floor Area		Total Zone Population						



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12/31/20

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MISSOURI NATIONAL GUARD

RENOVATE EXTERIOR &
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LEXINGTON, MISSOURI

PROJECT #: T1906-01
SITE #: 6264
ASSET #: 8136264001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 12-9-19

CAD DWG FILE: M-FP-6.DWG
DRAWN BY: HEI
CHECKED BY: HEI
DESIGNED BY: HEI

SHEET TITLE:
MECHANICAL
SCHEDULES

SHEET NUMBER:

M-602

ELECTRICAL SYMBOLS

NOTE: THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ABBREVIATIONS, ETC. ARE NECESSARILY USED ON THE DRAWINGS.

FIRE ALARM	
	FIRE ALARM CONTROL PANEL/UNIT
	RECESSED FIRE ALARM CONTROL PANEL/UNIT
	FIRE ALARM ANNUNCIATOR PANEL
	RECESSED FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM TRANSPONDER
	AMPLIFIER PANEL
	REMOTE POWER SUPPLY
	REMOTE TEST STATION WITH INDICATING LIGHT
	REMOTE INDICATING LIGHT
	PRESSURE SWITCH LOW/HIGH
	WATERFLOW ALARM SWITCH
	CONTROL VALVE TAMPER SWITCH
	MAGNETIC DOOR HOLD OPEN DEVICE
	CONTROL MODULE
	MONITOR MODULE
	KNOX BOX
	PULL STATION
	FIREFIGHTER'S PHONE JACK
	HEAT DETECTOR (E INDICATES ELEVATOR RECALL)
	SMOKE DETECTOR (E INDICATES ELEVATOR RECALL)
	SINGLE STATION SMOKE DETECTOR
	BEAM DETECTOR
	DUCT MOUNTED SMOKE DETECTOR (SD=SUPPLY/RD=RETURN)
	AREA OF REFUGE 2-WAY COMMUNICATION SYSTEM
	WALL MOUNTED AUDIBLE NOTIFICATION APPLIANCE
	WALL MOUNTED VISIBLE NOTIFICATION APPLIANCE
	## INDICATES CANDELA
	WALL MOUNTED AUDIBLE/VISIBLE NOTIFICATION APPLIANCE, ## INDICATES CANDELA
	CEILING MOUNTED AUDIBLE NOTIFICATION APPLIANCE, ## INDICATES CANDELA
	CEILING MOUNTED VISIBLE NOTIFICATION APPLIANCE, ## INDICATES CANDELA
	CEILING MOUNTED AUDIBLE/VISIBLE NOTIFICATION APPLIANCE, ## INDICATES CANDELA
	ABORT SWITCH
	BELL

ELECTRICAL ONE-LINE & RISER	
	PANELBOARD (SEE SCHEDULES)
	MULTI-SECTION PANELBOARD (SEE SCHEDULES)
	TRANSFORMER TYPE AND RATINGS AS SHOWN
	SHIELDED TRANSFORMER TYPE AND RATINGS AS SHOWN
	800A SWITCH RATING AS SHOWN
	200AS FUSED SWITCH RATING, POLES AND FUSE TYPE AS SHOWN
	200AF FUSE TYPE AS SHOWN
	CIRCUIT IDENTIFICATION - SEE CIRCUIT SCHEDULE
	GROUND FAULT RELAY
	SHUNT TRIP
	UTILITY METER (AS REQUIRED BY UTILITY)
	CURRENT TRANSFORMER RATING AS SPECIFIED OR REQUIRED
	TRANSIENT VOLTAGE SURGE SUPPRESSOR
	GROUND CONNECTION
	GROUND ROD
	CONTACT (OPEN OR CLOSED)
	HEATER
	MOTOR
	BLOCK LOAD KW OR KVA

SIGNALING	
	SIGNALING BELL
	SIGNALING BUZZER
	LV TRANSFORMER

ABBREVIATIONS	
A	AMPERES, AIR (COMPRESSED)
A/C	AIR CONDITIONING
AF	AMPERE FUSE
AFC	ABOVE FINISHED CEILING
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFEA	AREA FOR EVACUATION ASSISTANCE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AI	ANALOG INPUT
AIC	AMPERE INTERRUPTING CURRENT
AL	ALUMINUM
AO	ANALOG OUTPUT
AP	ACCESS PANEL
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BI	BINARY INPUT
BKR	BREAKER
BO	BINARY OUTPUT
C	CONDUIT
CD	CANDELA
CT	CURRENT TRANSFORMER
CATV	CABLE TELEVISION SYSTEM
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CPT	CONTROL POWER TRANSFORMER
CJ	COPPER, CONDENSING UNIT
CHD	CUMULATIVE VOLTAGE DROP
DDC	DIRECT DIGITAL CONTROL
DI	DIGITAL INPUT, DUCTILE IRON
DN	DOWN
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
EM	EMERGENCY
EPO	EMERGENCY POWER OFF
ETR	EXISTING TO REMAIN
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS/OWNER
FCA	FAULT CURRENT AMPS
FF	FINISHED FLOOR
FLA	FULL LOAD AMPS
FLR	FLOOR
FVNR	FULL-VOLTAGE, NON-REVERSING
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFR	GROUND FAULT RELAY
G	GROUND
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HOA	HAND-OFF-AUTOMATIC
IG	ISOLATED GROUND
ISC	SHORT CIRCUIT CURRENT
JB	JUNCTION BOX
J-BOX	JUNCTION BOX
KcMil	1000 CIRCULAR MILS
KK	KIRK KEY
KV	KILOVOLT
KVA	KILOVOLT-AMPS
KVAR	KILOVOLT-AMPS REACTIVE
KW	KILOWATT
KWH	KILOWATT-HOUR
L	LINEAR FEET
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MG	MOTOR GENERATOR
MH	MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MCCP	MAXIMUM OVERCURRENT PROTECTION
MSB	MAIN SWITCHBOARD
MSWB	MAIN SWITCHBOARD
MS/TP	MASTER SLAVE/TOKEN PASSING COMMUNICATION TRUNK
MTD	MOUNTED
N/A	NOT APPLICABLE
N/C	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N/O	NORMALLY OPEN
OC	ON CENTER
OS	OCCUPANCY SENSOR
PDU	POWER DISTRIBUTION UNIT
PH, Ø	PHASE
PV	POST INDICATOR VALVE
PNL	PANEL
PNLBD	PANELBOARD
PT	PROVIDE FURNISH AND INSTALL POTENTIAL TRANSFORMER
PTZ	PAN, TILT, ZOOM
QTY	QUANTITY
RCPT	RECEPTACLE
RLA	RUNNING LOAD AMPS
RTU	ROOFTOP UNIT
SD	SMOKE DETECTOR, SUPPLY DUCT
SF	SQUARE FEET, SUPPLY FAN
SPDT	SINGLE-POLE, DOUBLE-THROW
SPST	SINGLE-POLE, SINGLE-THROW
SS	STAINLESS STEEL, SANITARY
SEWER	SEWER, SOIL STACK
ST	SHUNT TRIP, STEAM TRAP
SWBD	SWITCHBOARD
TL	TWISTLOCK
TR	TAMPER RESISTANT
TX	TRANSFORMER
TYP	TYPICAL
U/F	UNDERFLOOR
U/G	UNDERGROUND
UH	UNIT HEATER
U/S	UNDERSLAB
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT(S)
VAC	VOLTS ALTERNATING CURRENT
VD	VOLTAGE DROP
VDC	VOLTS DIRECT CURRENT
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
WP	WEATHER PROOF COVER
WR	WEATHER RESISTANT
XP	EXPLOSION-PROOF

CIRCUITING & WIRING	
	SWITCHED HOT CONDUCTORS (SHOWN TRAILING NEUTRAL) NEUTRAL CONDUCTOR
	UNSWITCHED HOT CONDUCTORS (SHOWN LEADING NEUTRAL)
	HOMERUN TO PANELBOARD, ARROWS INDICATE NUMBER OF CIRCUITS, HASH MARKS INDICATE NUMBER OF CONDUCTORS, INFORMATION AT ARROWS ARE CIRCUIT NUMBERS AND PANELBOARD.
	EQUIPMENT GROUNDING CONDUCTOR IN CONDUIT (GREEN INSULATION OR BARE)
	ISOLATED GROUNDING CONDUCTOR IN CONDUIT (GREEN INSULATION WITH YELLOW TRACER)
	CONDUIT CONCEALED
	CONDUIT IN/UNDER FLOOR/GROUND CONSTRUCTION
	EXPOSED CONDUIT
	FLEXIBLE CONDUIT
	LOW VOLTAGE CABLE (NOT ROUTED IN CONDUIT)
	CONDUIT TURNING DOWN
	CONDUIT TURNING UP
	CONNECTION POINT OR EQUIPMENT TERMINATION
	EQUIPMENT TERMINATION

LIGHTING	
	LIGHT FIXTURE
	a = SWITCHED BY SWITCH "a"
	A = LIGHT FIXTURE TYPE "A"
	NL = NIGHT LIGHT
	= WALL MOUNT
	> = ARROW INDICATES AIMING DIRECTION
	LIGHT FIXTURE WITH NIGHT LIGHT
	EMERGENCY LIGHT FIXTURE WITH EMERGENCY LIGHTING BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE
	LIGHT FIXTURE WITH DUAL BALLASTS CIRCUITED SEPARATELY. (SHADING IMPLIES EMERGENCY LIGHT FIXTURE)
	LIGHTING TRACK WITH LIGHT FIXTURE TYPES AS INDICATED
	MIRROR LIGHTS
	SITE LIGHTING FIXTURE
	EXIT SIGN - CEILING / WALL MOUNTED, ARROWS AS INDICATED.
	EMERGENCY BATTERY PACK LIGHT FIXTURE - CEILING/WALL MOUNTED
	AFE (AREA FOR EVACUATION ASSISTANCE) SIGN - CEILING/WALL MOUNTED, ARROWS AS INDICATED.

STANDARD MOUNTING HEIGHTS	
(AFF, AFG, UNLESS NOTED OTHERWISE)	
ELECTRICAL	
ALARMS	48"
ANNUNCIATOR PANELS	48"
CLOCK OUTLETS (CENTERLINE)	84"
CONTROLS (CENTERLINE)	48"
EXIT SIGNS (WALL MOUNTED, BOTTOM)	80"
INTERCOM (AFEA ONLY)	36"
INTERCOMS	48"
PANELS/PANELBOARDS (TOP)	72"
PHOTOCELLS	144"
RECEPTACLES (CENTERLINE)	18"
RECEPTACLES (EXTERIOR)	24"
RECEPTACLES (GARAGES)	26"
RECEPTACLES IN EQUIPMENT ROOMS	48"
REMOTE INDICATING LIGHT (EQUIPMENT ROOMS)	48"
REMOTE INDICATING LIGHT (FINISHED AREAS)	CEILING
SAFETY SWITCHES	48"
STARTERS	48"
SWITCHES (CENTERLINE)	48"
TELEPHONES (PUBLIC)	1 @ 48", 1 @ 36"
TELEPHONE, DATA OUTLETS (CENTERLINE)	18"
TELEPHONE TERMINAL BOARD (BOTTOM)	6"
TELEVISION OUTLETS	18"

ANNOTATION	
	ELECTRICAL PLAN NOTE CALLOUT
	TECHNOLOGY PLAN CALLOUT
	EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)
	CONNECTION POINT OF NEW WORK TO EXISTING
	DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
	SECTION CUT DESIGNATION

WIRING DEVICES & OUTLETS	
	SINGLE POLE WALL SWITCH (NO LETTER DESIGNATION)
	SWITCH LETTER DESIGNATIONS AS FOLLOWS: 2 = TWO POLE WALL SWITCH 3 = THREE-WAY WALL SWITCH 4 = FOUR-WAY WALL SWITCH D = DIMMER TYPE SWITCH F = FAN SPEED CONTROL SWITCH OS# = OCCUPANCY SENSOR (SEE OCCUP. SENSOR SCHEDULE) P = SPST PILOT LIGHT SWITCH K = KEYED LIGHT SWITCH M = MOTOR RATED SWITCH WP = WEATHER PROOF
	OCCUPANCY SENSOR (SEE OCCUPANCY SENSOR SCHEDULE FOR TYPE AND MOUNTING CONFIGURATIONS) # = OCCUPANCY SENSOR TYPE "#"
	SENSOR POWER PACK FOR LIGHTING CONTROL
	SENSOR AUXILIARY RELAY PACK FOR LIGHTING CONTROL
	SIMPLEX RECEPTACLE - NEMA 5-20R, UNO
	DUPLEX RECEPTACLE - NEMA 5-20R, UNO
	DOUBLE DUPLEX RECEPTACLE - NEMA 5-20R, UNO
	SPECIAL RECEPTACLE - NEMA TYPE AS NOTED
	TWIST-LOCK TYPE RECEPTACLE
	GFCI TYPE RECEPTACLE*
	ISOLATED GROUND TYPE RECEPTACLE*
	EMERGENCY RECEPTACLE*
	RECEPTACLE INSTALLED 6" ABOVE COUNTER OR BACKSPASH*
	RECEPTACLE INSTALLED IN CEILING*
	RECEPTACLE INSTALLED IN FLOOR*
	RECEPTACLE INSTALLED VIA DROP CORD*
	*DUPLEX RECEPTACLE SHOWN, SIMILAR FOR OTHERS
	RECEPTACLE LETTER DESIGNATIONS AS FOLLOWS: C = CLOCK HANGER TYPE E = EMERGENCY POWER S = SWITCHED IG = ISOLATED GROUND TR = TAMPER RESISTANT WP = WEATHER PROOF COVER WR = WEATHER RESISTANT
	MULTI-OUTLET SURFACE RACEWAY WITH NEMA 5-20R RECEPTACLES 12" ON CENTER, UNO.
	TELEPHONE OUTLET - FLOOR OR WALL MOUNTED. INSTALL AT SAME ELEVATION AS ADJACENT RECEPTACLE, UNO.
	DATA OUTLET - FLOOR OR WALL MOUNTED. INSTALL AT SAME ELEVATION AS ADJACENT RECEPTACLE, UNO.
	MULTI-SERVICE OUTLET; TELEPHONE AND DATA - FLOOR OR WALL MOUNTED. INSTALL AT SAME ELEVATION AS ADJACENT RECEPTACLE, UNO.
	MULTI-SERVICE POWER POLE WITH TELEPHONE, DATA AND POWER OUTLETS A = TYPE, SEE SCHEDULE IN SPECIFICATIONS
	MULTI-SERVICE FLOOR BOX WITH TELEPHONE, DATA AND POWER OUTLETS A = TYPE, SEE SCHEDULE IN SPECIFICATIONS
	POKE THROUGH, A = TYPE, SEE SCHEDULE IN SPECIFICATIONS
	THERMOSTAT
	JUNCTION BOX/OUTLET BOX
	BLANK FACE GFCI FEED THROUGH DEVICE
	AUTOMATIC LOAD CONTROL RELAY

POWER EQUIPMENT & DEVICES	
	ELECTRICAL SERVICE PANELBOARD (SURFACE OR FLUSH MOUNT)
	TERMINAL CABINET (SURFACE OR FLUSH MOUNT), TYPE AS NOTED
	PLYWOOD TERMINAL BOARD FOR TELEPHONE SYSTEM, UNO. SIZE AS NOTED.
	ELECTRICAL DISTRIBUTION PANELBOARD
	SWITCHBOARD OR MOTOR CONTROL CENTER ON HOUSEKEEPING PAD
	TRANSFORMER
	MOTOR
	DISCONNECT SWITCH - "200/3/150" DENOTES AMPERES/POLE/FUSE NF= NON-FUSED CB= CIRCUIT BREAKER (200/3/CB)
	COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER "30/3/15/1" DENOTES AMPERES/POLE/FUSE/NEMA STARTER SIZE NF= NON-FUSED CB= CIRCUIT BREAKER (30/3/CB/1)
	MAGNETIC MOTOR STARTER, NEMA SIZE AS NOTED. 3-POLE, UNO.
	MANUAL STARTER
	VARIABLE FREQUENCY DRIVE
	RELAY OR CONTACTOR (IN SCHEMATICS)
	MAGNETIC CONTACTOR, SIZE, COIL VOLTAGE AND NUMBER OF POLES AS INDICATED (L= LIGHTING CONTACTOR, P= POWER CONTACTOR)
	TIME SWITCH
	PHOTOCELL
	INDICATING LIGHT
	PUSH BUTTON
	STOP-START PUSH BUTTON CONTROL STATION
	HAND-OFF-AUTO PUSH BUTTON CONTROL STATION
	MUSHROOM-TYPE PUSH BUTTON
	OVERHEAD PADDLE FAN

- ### GENERAL NOTES
- ALL EQUIPMENT SHOWN IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
 - COORDINATE CONDUIT ROUTING WITH ALL OTHER TRADES PRIOR TO ROUGH-IN.
 - CONSTRUCTION WILL BE PERFORMED AT A FUNCTIONING SITE. EXTREME CARE AND CAUTION SHALL BE EXERCISED AND CONTRACTOR SHALL ENSURE THAT CONSTRUCTION DOES NOT CAUSE ANY NEGATIVE EFFECT ON THE PERFORMANCE OF THE SITE.
 - PROVIDE ALL NEW, TYPEWRITTEN, DIRECTORIES FOR ALL PANELBOARDS. NO HANDWRITTEN DIRECTORIES WILL BE ACCEPTED.
 - CONTRACTOR SHALL PATCH AND REPAIR TO MATCH FLOOR OR WALL OPENINGS CREATED BY WORK UNDER THIS CONTRACT TO ARCHITECT'S SATISFACTION.
 - LOCATION AND DETAIL OF EQUIPMENT CONNECTIONS ARE APPROXIMATE. COORDINATE THIS WORK WITH THE CONTRACTOR PROVIDING THE EQUIPMENT AND ADJUST INSTALLATION DETAILS PRIOR TO ROUGH-IN.
 - LOCATION OF SWITCHES, RECEPTACLES, LIGHTING, OR OTHER DEVICES SHOWN ARE NOT TO SCALE UNLESS DIMENSIONED, COORDINATE WITH ALL OTHER DISCIPLINES PRIOR TO ROUGH-IN. ADJUST LOCATIONS AS NECESSARY AND DOCUMENT ADJUSTMENTS FOR FINAL AS-BUILTS.
 - WIRING TO EXISTING DEVICES AND EQUIPMENT SHALL REMAIN UNLESS OTHERWISE SHOWN, NOTED OR SPECIFIED. RETAIN OR RECONNECT POWER WIRING TO MAINTAIN OPERATION OF EXISTING EQUIPMENT. REMOVE UNUSED WIRING BACK TO NEAREST "ACTIVE" JUNCTION BOX OR PANEL, UNLESS OTHERWISE NOTED.
 - IN GENERAL, RACEWAYS, WIRING AND FITTINGS REMOVED DURING DEMOLITION SHALL NOT BE REUSED, UNLESS NOTED OTHERWISE.
 - DO NOT SUPPORT ANY ELECTRICAL COMPONENTS OR SYSTEMS FROM PIPING, DUCTWORK, OR CEILING SYSTEMS. WHERE MECHANICAL AND ELECTRICAL SYSTEMS SHARE COMMON SUPPORTS, PROVIDE STRUCTURAL LOAD CALCULATIONS TO INSURE SUPPORTS ARE ADEQUATE.
 - SEAL ALL NEW OR EXISTING FLOOR OR WALL PENETRATIONS CREATED OR AFFECTED BY WORK UNDER THIS PROJECT IN ACCORDANCE WITH THESE DOCUMENTS, APPLICABLE CODES AND STANDARDS. SEALING SYSTEMS AND COMPONENTS SHALL INCLUDE, BUT ARE NOT LIMITED TO, FIRE, SMOKE, AND WEATHER-PROOF AREAS.

- ### GENERAL DEMOLITION NOTES:
- REMOVE ELECTRICAL ITEMS SHOWN AS DASHED LINE, CROSS-HATCHED, AND/OR NOTED TO BE REMOVED.
 - AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN DURING DEMOLITION. REPAIR DAMAGE CAUSED DURING WORK AT NO EXTRA COST.
 - AVOID DAMAGING EXISTING WIRING FOR ALL EXISTING SYSTEMS. REPAIR DAMAGE CAUSED DURING WORK AT NO EXTRA COST. SYSTEMS SHALL OPERATE AT NORMAL CAPACITY UPON COMPLETION OF WORK.
 - SEAL ALL PENETRATIONS THROUGH FLOORS, WALLS AND CEILINGS WHERE ELECTRICAL COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR DAMAGED SURFACES TO MATCH ADJACENT AREAS. NEW SEAL WORK SHALL MAINTAIN OR EXCEED RATING OF BARRIER. PROVIDE LABEL(S) AS REQUIRED TO COMPLY WITH CODE AND APPLICABLE STANDARDS.
 - COORDINATE NEW WORK AND DEMOLITION WITH OTHER TRADES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
 - UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING WIRING, CABLEING AND CONDUIT SERVING EXISTING ITEMS AND REMOVED EQUIPMENT BACK TO THE SOURCE. WHERE REMOVAL OF EXISTING WIRING INTERRUPTS THE ELECTRICAL CONTINUITY OF CIRCUITS THAT ARE TO REMAIN IN USE, PROVIDE NECESSARY WIRING, RACEWAYS, JUNCTION BOXES AND ADDITIONAL MATERIALS AS REQUIRED TO ENSURE CONTINUED ELECTRICAL CONTINUITY.
 - IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO PERFORM ALL SELECTIVE DEMOLITION NECESSARY TO PERFORM THE WORK SHOWN ON THE DRAWINGS.
 - OWNER SHALL HAVE THE RIGHT TO CLAIM OR DENY ALL SALVAGED MATERIALS AND EQUIPMENT OR PORTION THEREOF. ALL REMOVED EQUIPMENT AND MATERIALS NOT RETAINED BY THE OWNER SHALL BE CONSIDERED PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE PROPERTY AND LEGALLY DISPOSED OF. OWNER ASSUMES NO RESPONSIBILITY FOR CONDITION OF EQUIPMENT OR MATERIAL TO BE DEMOLISHED.
 - REMOVAL OF CONDUITS SHALL INCLUDE REMOVAL OF HANGERS AND SUPPORTS, AND ASSOCIATED MISCELLANEOUS MATERIALS.
 - ALL PIPING, TUBING, CONDUITS, ETC. MADE OBSOLETE BY WORK UNDER THIS CONTRACT, THAT ARE EXPOSED OR IN CONFLICT WITH NEW WORK, ARE TO BE REMOVED. REPAIR ALL HOLES IN WALLS, FLOORS, AND CEILINGS TO MATCH EXISTING CONDITIONS AND FIRE/SMOKE RATINGS. PROVIDE LABELS AS REQUIRED PER CODE.
 - LOW VOLTAGE CABLES/WIRING NOT BEING REUSED SHALL BE REMOVED UNLESS IDENTIFIED FOR FUTURE USE. COORDINATE REQUIREMENTS WITH OWNER. CARE SHOULD BE TAKEN DURING THE REMOVAL PROCESS TO PROTECT THE EXISTING REUSED CABLES/WIRING FROM DAMAGE.

STATE OF MISSOURI
MICHAEL L. PARSON
GOVERNOR



ANDRIA J. ODROWSKI
Dec 6 2019
LICENSE # E-27453

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LEXINGTON, MISSOURI

PROJECT #: T1906-01
SITE #: 6264
ASSET #: 8136264001

REVISION:
DATE:
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ISSUE DATE: 12-9-19



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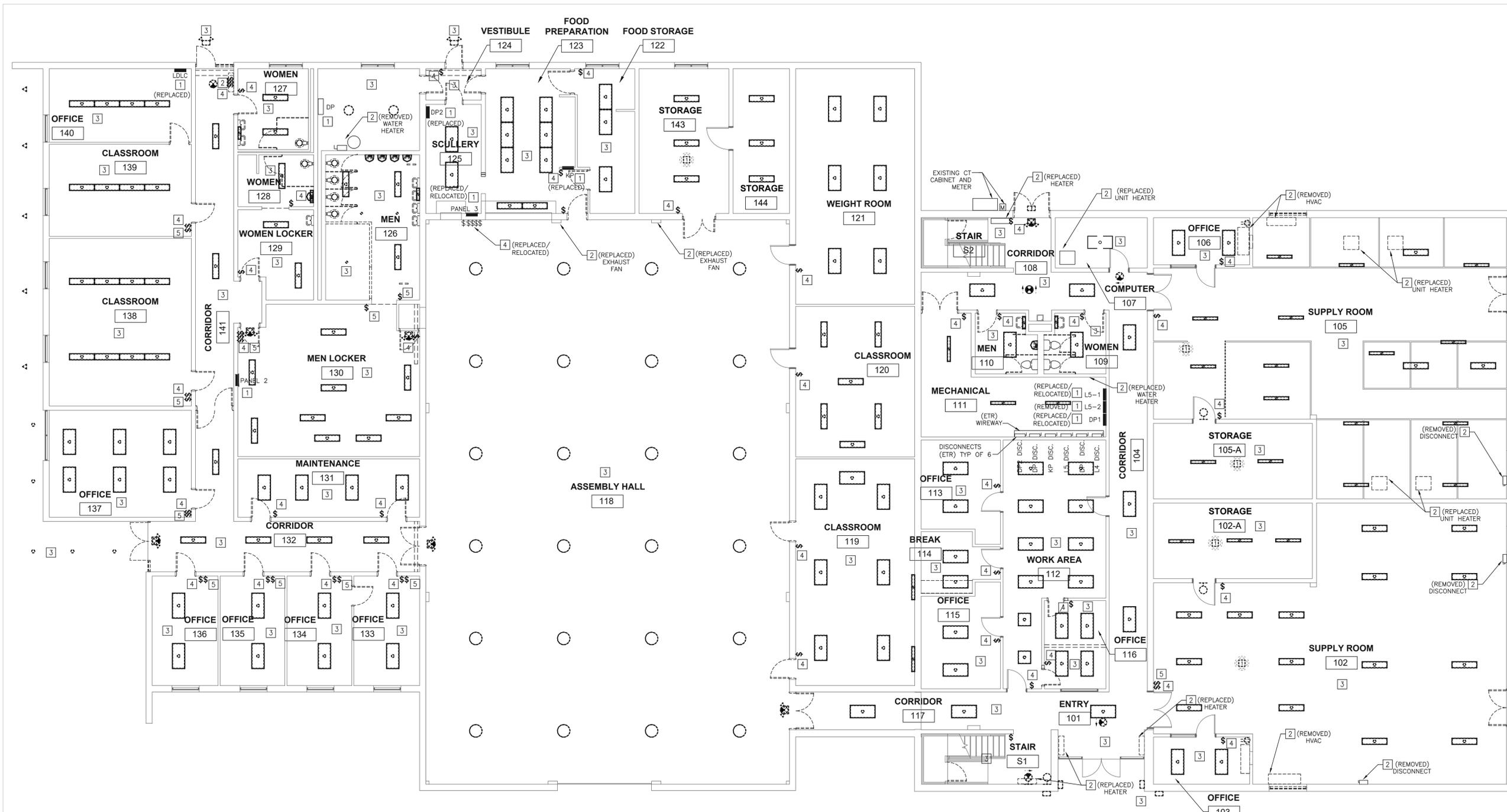
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DATE:
ISSUE DATE: 12-9-19

CAD DWG FILE: T1906-001-6264-E-110
DRAWN BY: JRF
CHECKED BY: BW
DESIGNED BY: JRF

SHEET TITLE:
FIRST FLOOR
ELECTRICAL
POWER DEMO
PLAN

SHEET NUMBER:

E-110



1 FIRST FLOOR ELECTRICAL POWER DEMO PLAN
SCALE: 1/8"=1'-0"

ELECTRICAL PLAN NOTES:

- 1 EXISTING PANELBOARD IS TO BE REPLACED/REVISED/RELOCATED. REMOVE EXISTING WIRING DEVICES, EXPOSED RACEWAY, CIRCUITRY AND RELATED ACCESSORIES NOT BEING REUSED BACK TO SOURCE PANELBOARD. REFER TO ELECTRICAL POWER PLAN, ONE-LINE DIAGRAM AND SCHEDULES, E112, E601, E602, E603 FOR NEW AND RELOCATED ELECTRICAL PANELBOARD INFORMATION.
- 2 EXISTING EQUIPMENT IS TO BE REPLACED/REVISED/RELOCATED/REMOVED. REMOVE EXISTING WIRING DEVICES, EXPOSED RACEWAY, CIRCUITRY AND RELATED ACCESSORIES NOT BEING REUSED BACK TO SOURCE PANELBOARD OR NEAREST REMAINING DEVICE AND UPDATE CIRCUIT DIRECTORY ACCORDINGLY. MAINTAIN EXISTING ELECTRICAL INSTALLATIONS TO SERVE REMAINING EQUIPMENT AND THAT USED FOR TEMPORARY PURPOSES. REFER TO ELECTRICAL POWER AND LIGHTING PLANS FOR NEW AND RELOCATED ELECTRICAL EQUIPMENT INFORMATION. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR ADDITIONAL INFORMATION.
- 3 REPLACE EXISTING LIGHT FIXTURE(S) IN ROOM AND REVISE AND EXTEND RELATED CIRCUITRY. EXISTING RACEWAY, CIRCUITRY AND RELATED ACCESSORIES MAY BE REUSED IF IN GOOD CONDITION AND NEW DESIGN CRITERIA CAN BE MET; OTHERWISE REPLACE. REFER TO ELECTRICAL POWER AND LIGHTING PLANS FOR ADDITIONAL INFORMATION.
- 4 EXISTING LIGHT SWITCH TO BE REPLACED. REFERENCE SHEET E701 FOR ADDITIONAL INFORMATION.
- 5 EXISTING LIGHT SWITCH TO BE DEMOLISHED. PATCH OR COVER WITH BLANK FACE PLATE IF LOCATED ON AN EXISTING TO REMAIN WALL.



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Dec 6 2019

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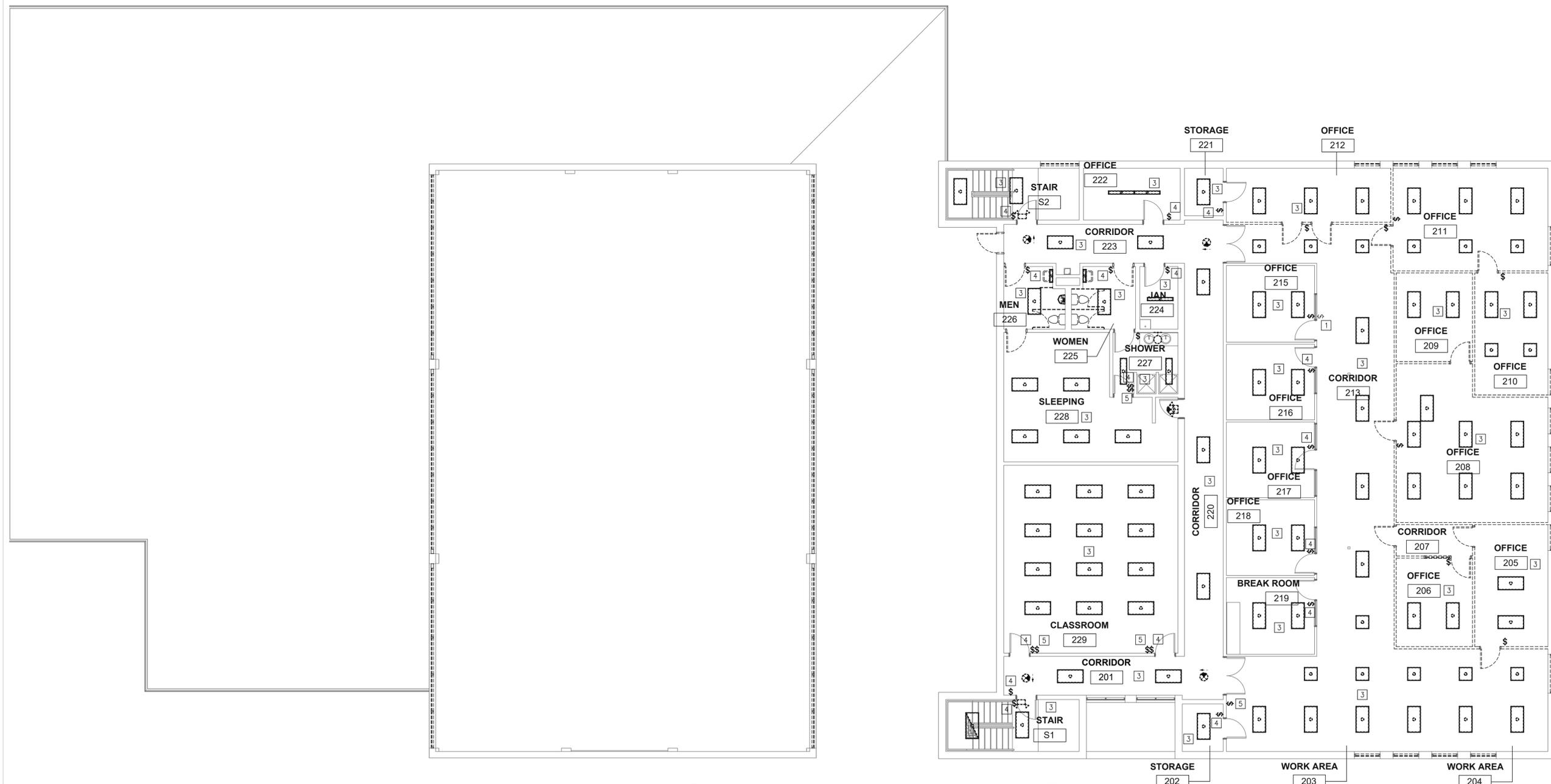
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CAD DWG FILE: T1906-001-6264-E-111
DRAWN BY: JRF
CHECKED BY: BW
DESIGNED BY: JRF

SHEET TITLE:
SECOND FLOOR
ELECTRICAL
POWER DEMO
PLAN

SHEET NUMBER:

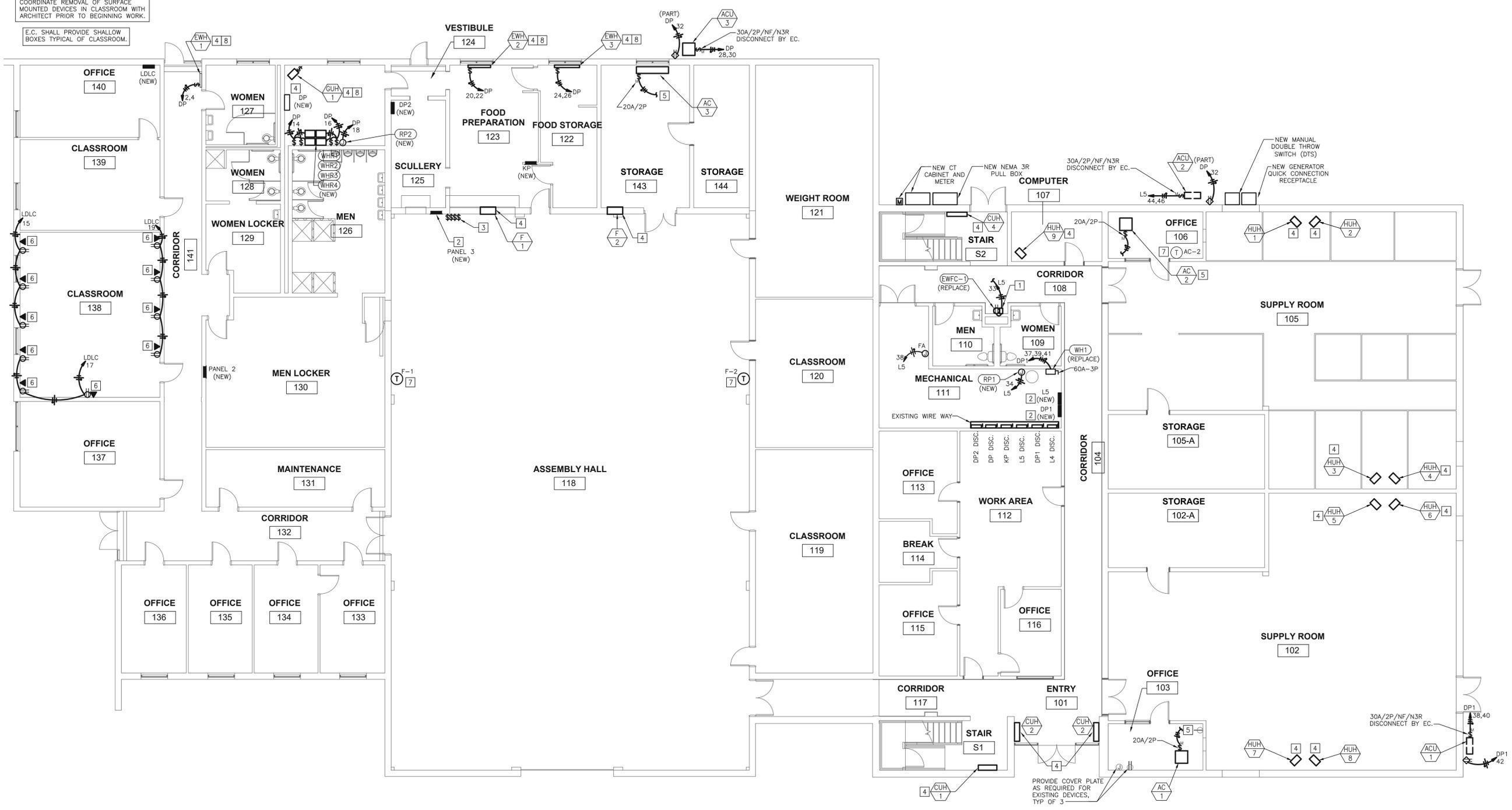
E-111



1 SECOND FLOOR ELECTRICAL POWER DEMO PLAN
SCALE: 1/8"=1'-0"

- ELECTRICAL PLAN NOTES:**
- 1 EXISTING PANELBOARD IS TO BE REPLACED/REVISED/RELOCATED. REMOVE EXISTING WIRING DEVICES, EXPOSED RACEWAY, CIRCUITRY AND RELATED ACCESSORIES NOT BEING REUSED BACK TO SOURCE PANELBOARD. REFER TO ELECTRICAL POWER PLAN, ONE-LINE DIAGRAM AND SCHEDULES, E112, E601, E602, E603 FOR NEW AND RELOCATED ELECTRICAL PANELBOARD INFORMATION.
 - 2 EXISTING EQUIPMENT IS TO BE REPLACED/REVISED/RELOCATED/REMOVED. REMOVE EXISTING WIRING DEVICES, EXPOSED RACEWAY, CIRCUITRY AND RELATED ACCESSORIES NOT BEING REUSED BACK TO SOURCE PANELBOARD OR NEAREST REMAINING DEVICE AND UPDATE CIRCUIT DIRECTORY ACCORDINGLY. MAINTAIN EXISTING ELECTRICAL INSTALLATIONS TO SERVE REMAINING EQUIPMENT AND THAT USED FOR TEMPORARY PURPOSES. REFER TO ELECTRICAL POWER AND LIGHTING PLANS FOR NEW AND RELOCATED ELECTRICAL EQUIPMENT INFORMATION. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR ADDITIONAL INFORMATION.
 - 3 REPLACE EXISTING LIGHT FIXTURE(S) IN ROOM AND REVISE AND EXTEND RELATED CIRCUITRY. EXISTING RACEWAY, CIRCUITRY AND RELATED ACCESSORIES MAY BE REUSED IF IN GOOD CONDITION AND NEW DESIGN CRITERIA CAN BE MET. OTHERWISE REPLACE. REFER TO ELECTRICAL POWER AND LIGHTING PLANS FOR ADDITIONAL INFORMATION.
 - 4 EXISTING LIGHT SWITCH TO BE REPLACED. REFERENCE SHEET E702 FOR ADDITIONAL INFORMATION.
 - 5 EXISTING LIGHT SWITCH TO BE DEMOLISHED. PATCH OR COVER WITH BLANK FACE PLATE IF LOCATED ON AN EXISTING TO REMAIN WALL.

COORDINATE REMOVAL OF SURFACE MOUNTED DEVICES IN CLASSROOM WITH ARCHITECT PRIOR TO BEGINNING WORK.
E.C. SHALL PROVIDE SHALLOW BOXES TYPICAL OF CLASSROOM.



1 FIRST FLOOR ELECTRICAL POWER PLAN
SCALE: 1/8"=1'-0"

- ELECTRICAL PLAN NOTES:**
- 1 PROVIDE BLANK FACE GFCI PROTECTION FEED THROUGH DEVICE FOR DOWNSTREAM RECEPTACLE(S).
 - 2 E.C. TO RELOCATE NEW PANELS PER NEC WORKING CLEARANCE REQUIREMENTS.
 - 3 RELOCATE EXISTING SWITCH BANK AS REQUIRED FOR NEW PANELBOARD. REFERENCE SHEET E110 FOR MORE INFORMATION.
 - 4 DISCONNECT EXISTING EQUIPMENT AND RECONNECT NEW EQUIPMENT. COORDINATE WITH MECHANICAL/PLUMBING CONTRACTOR. UPDATE PANELBOARD SCHEDULES AS REQUIRED.
 - 5 PROVIDE CONDUIT AND CONDUCTORS FOR POWER CONNECTIONS BETWEEN REMOTE CONDENSING UNIT AND THE RESPECTIVE MECHANICAL EQUIPMENT. PROVIDE DISCONNECT SWITCH FOR EQUIPMENT. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
 - 6 ALL NEW DATA BOXES WILL HAVE CAT5 DATA CABLE (TYPE-CMR, 4 PAIRS, 24 AWG) ROUTED IN 1/2" CONDUIT TO EXISTING DATA ENCLOSURE IN MECHANICAL ROOM. DATA CABLE SHALL HAVE 10' COILED AT DATA ENCLOSURE FOR FUTURE USE.
 - 7 INSTALL 1/2" CONDUIT FROM HVAC EQUIPMENT TO LOCATION SHOWN FOR TEMPERATURE SENSOR. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR.
 - 8 FACTORY PROVIDED DISCONNECTS.



ANDRIA J. ODROWSKI
Dec 6 2019
LICENSE # E-27453
PROFESSIONAL SEAL



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MO. CORPORATE NUMBER: E-556D
12/31/20

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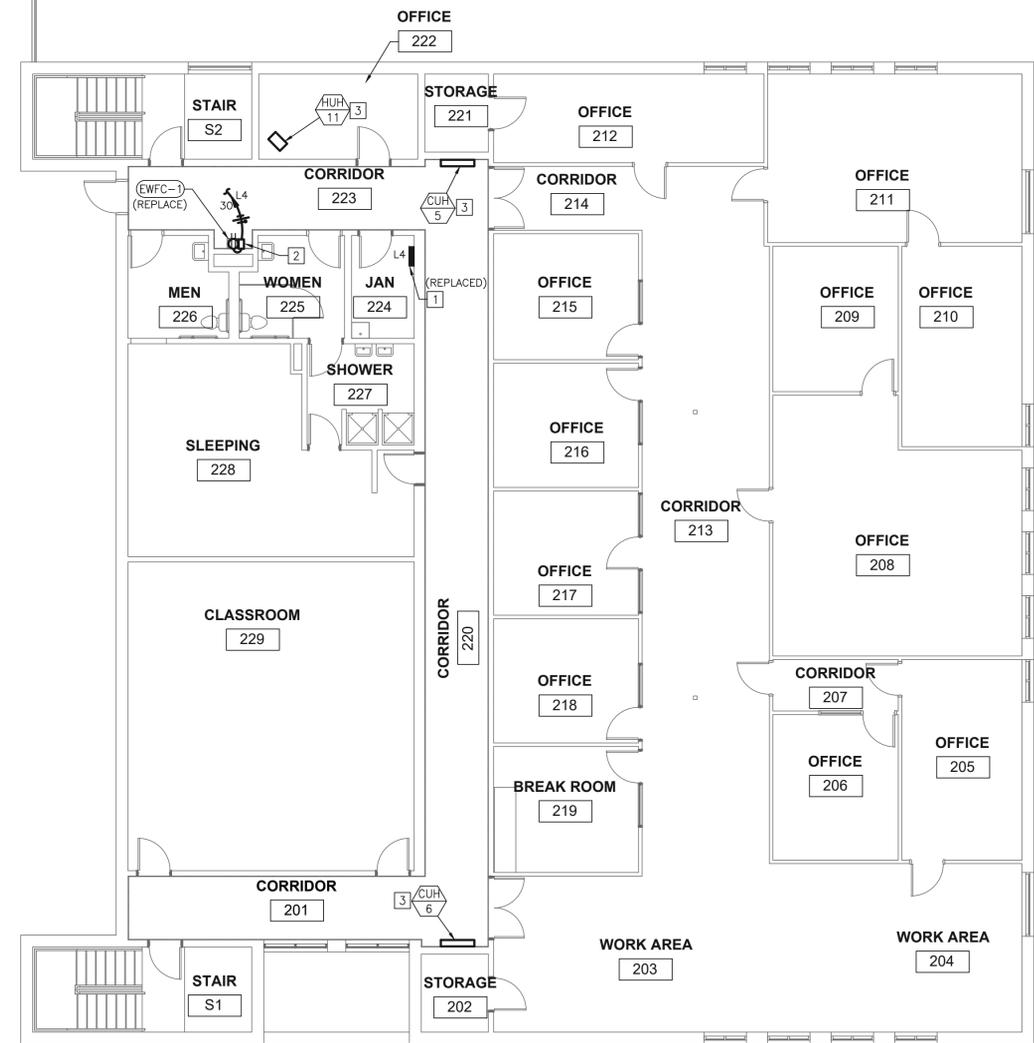
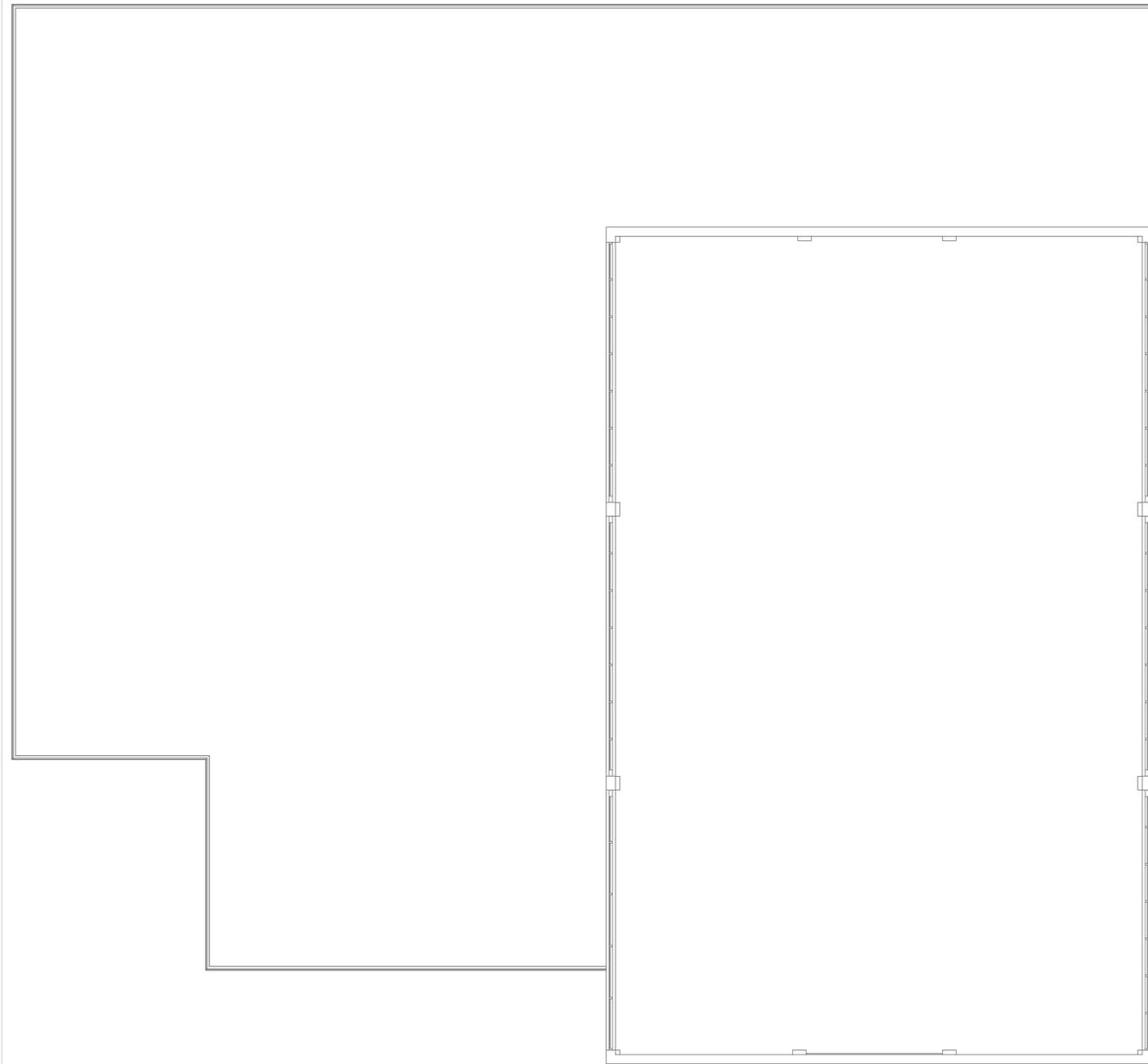
PROJECT #: T1906-01
SITE #: 6264
ASSET #: 8136264001

REVISION:
DATE: _____
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DATE: _____
REVISION:
DATE: _____
ISSUE DATE: 12-9-19

CAD DWG FILE: T1906-001-6264-E-112
DRAWN BY: JRF
CHECKED BY: BW
DESIGNED BY: JRF

SHEET TITLE:
FIRST FLOOR
ELECTRICAL
POWER
PLAN

SHEET NUMBER:



1 SECOND FLOOR ELECTRICAL POWER PLAN
 SCALE: 1/8"=1'-0"

- ELECTRICAL PLAN NOTES:**
- 1 EXISTING PANELBOARD IS TO BE REPLACED. REMOVE EXISTING WIRING DEVICES, EXPOSED RACEWAY, CIRCUITRY AND RELATED ACCESSORIES NOT BEING REUSED BACK TO SOURCE PANELBOARD. REFER TO ONE-LINE DIAGRAM E601, E602, E603 FOR NEW ELECTRICAL PANELBOARD INFORMATION.
 - 2 PROVIDE BLANK FACE GFCI PROTECTION FEED THROUGH DEVICE FOR DOWNSTREAM RECEPTACLE(S).
 - 3 DISCONNECT EXISTING EQUIPMENT AND RECONNECT NEW EQUIPMENT. COORDINATE WITH MECHANICAL/PLUMBING CONTRACTOR. UPDATE PANELBOARD SCHEDULES AS REQUIRED.



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PROJECT #: T1906-01
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 ASSET #: 8136264001

REVISION: _____
 DATE: _____
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 REVISION: _____
 DATE: _____
 ISSUE DATE: 12-9-19

CAD DWG FILE: T1906-001-6264-E-113
 DRAWN BY: JRF
 CHECKED BY: BW
 DESIGNED BY: JRF

SHEET TITLE:
 SECOND FLOOR
 ELECTRICAL
 POWER
 PLAN

SHEET NUMBER:

E-113

ELECTRICAL PLAN NOTES:

- 1 EXISTING EQUIPMENT IS TO BE REPLACED/REVISED/RELOCATED. REMOVE EXISTING WIRING DEVICES, EXPOSED RACEWAY, CIRCUITRY AND RELATED ACCESSORIES NOT BEING REUSED BACK TO SOURCE PANELBOARD OR NEAREST REMAINING DEVICE AND UPDATE CIRCUIT DIRECTORY ACCORDINGLY. MAINTAIN EXISTING ELECTRICAL INSTALLATIONS TO SERVE REMAINING EQUIPMENT AND THAT USED FOR TEMPORARY PURPOSES. REFER TO [ELECTRICAL POWER PLAN] FOR NEW AND RELOCATED ELECTRICAL EQUIPMENT INFORMATION. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR ADDITIONAL INFORMATION.
- 2 PROVIDE EXHAUST FAN CONTROL WIRING AS REQUIRED. REFERENCE SHEET E701 AND MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- 3 MANUFACTURER PROVIDED DISCONNECT. REFERENCE MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- 4 CONNECT EXHAUST FAN TO EXISTING CONTROLS.

STATE OF MISSOURI
MICHAEL L. PARSON
GOVERNOR



ANDRIA J. ODROWSKI
LICENSE # E-27453
Dec 6 2019
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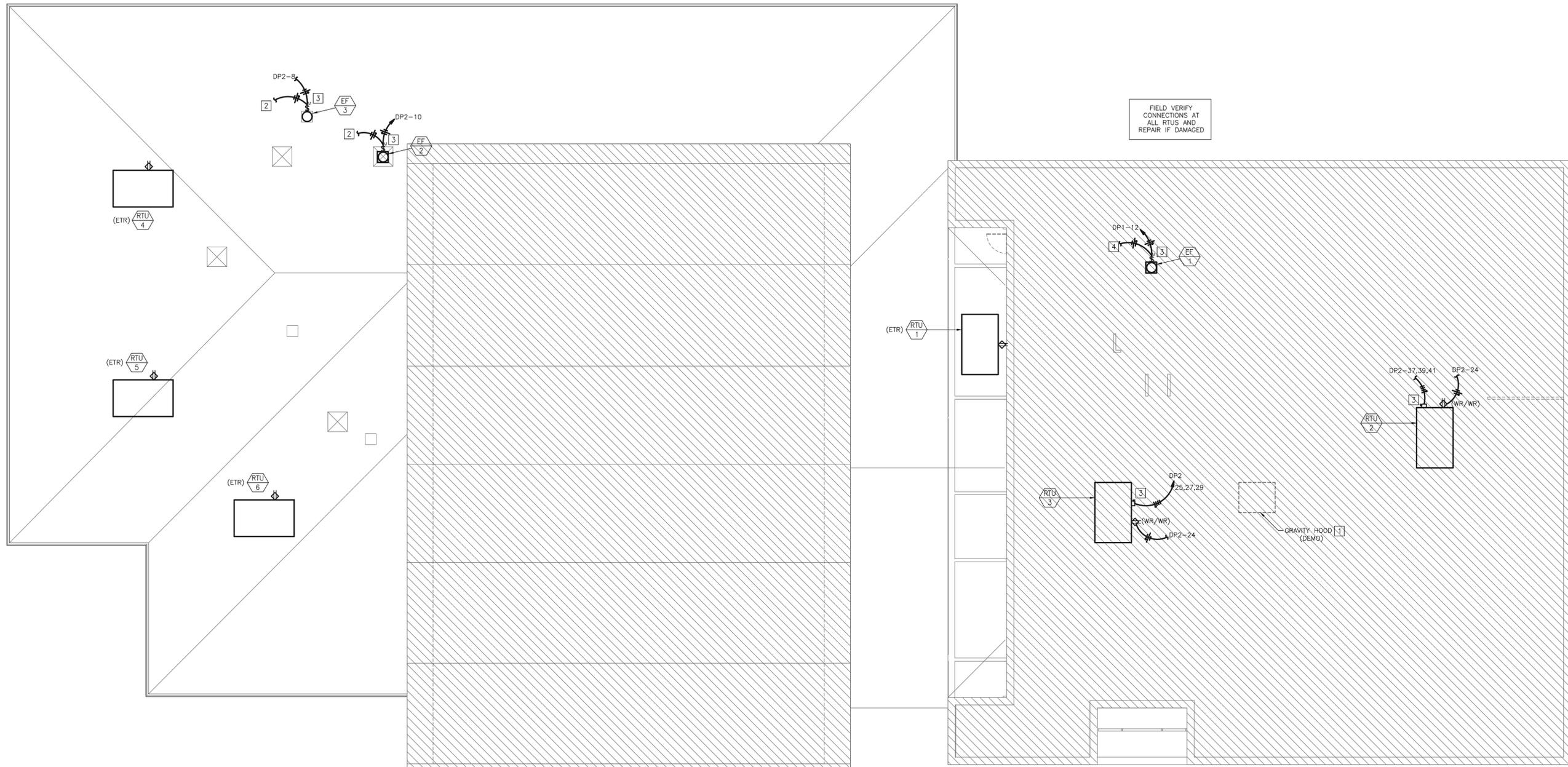
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REVISION:
DATE: _____
ISSUE DATE: 12-9-19

CAD DWG FILE:T1906-001-6264-E-114
DRAWN BY: JRF
CHECKED BY: BW
DESIGNED BY: JRF

SHEET TITLE:
ELECTRICAL
ROOF PLAN

SHEET NUMBER:

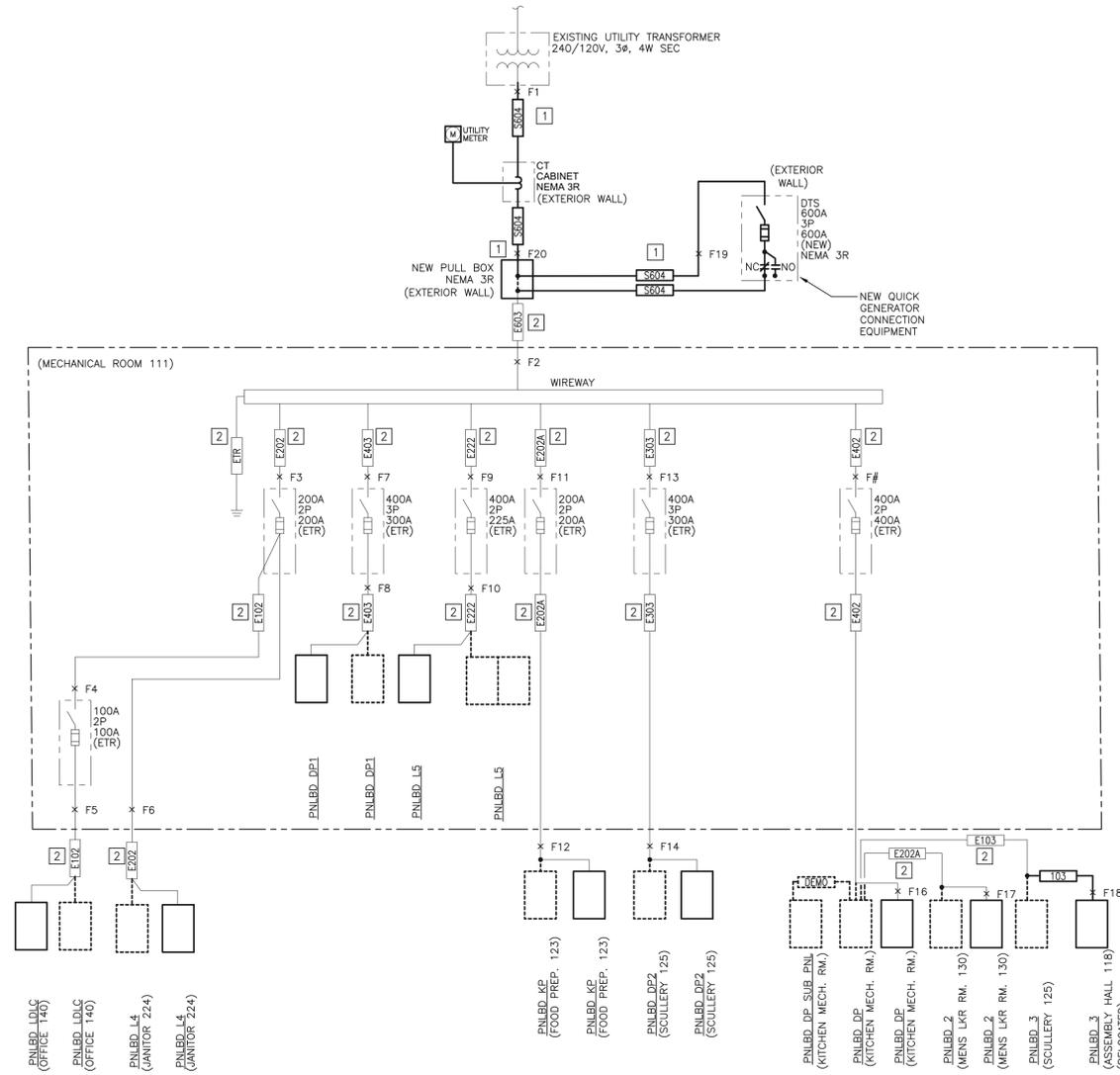
E-114



1 ELECTRICAL ROOF PLAN
SCALE: 1/8"=1'-0"

BUILDING ELECTRICAL SERVICE LOAD SUMMARY			
BUILDING OCCUPANCY TYPE:	M	SERVICE DESCRIPTION:	
BUILDING SQUARE FOOTAGE:	31,959	240Y/120V, 3PH	
LOAD DESCRIPTION	Connected KVA	Demand FACTOR	Demand KVA
EXISTING PEAK UTILITY LOAD @ 0.9 pf	N/A	125%	97.22
HVAC - SUMMER	44.29	100%	44.29
HVAC - WINTER	11.66	100%	0.00
LIGHTING (PER NEC-220)	0.00	125%	0.00
RECEPTACLES	2.34	100%/50%	2.34
KITCHEN EQUIPMENT	0.00	100%	0.00
MOTOR LOADS	2.28	100%	2.28
LARGEST MOTOR LOAD	0.00	125%	0.00
SUPPLEMENTAL ELECTRIC HEAT	1.92	100%	1.92
MISCELLANEOUS EQUIPMENT	15.50	100%	15.50
REFRIGERATION EQUIPMENT	1.20	100%	1.20
DISPLAY CASE/SIGNAGE	0.00	125%	0.00
SHOW WINDOW / TRACK LIGHTING	0.00	PER NEC	0.00
EXTERIOR LIGHTING	0.00	125%	0.00
EXISTING LOAD TO BE DELETED	24.24	100%	24.24
TOTAL LOAD	54.95	KVA	140.52
TOTAL AMPACITY **	132.20	AMPS	680.08
SERVICE AMPACITY	600	AMPS	600.00
SPARE CAPACITY		AMPS	0

*PER UTILITY COMPANY BILLING PEAK DEMAND OF: 70 KW Jun-19



CIRCUIT SCHEDULE:

- ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATIONS. COPPER CONDUCTORS ARE BASED ON THHN/THWN-2 INSULATION. ALUMINUM CONDUCTORS (PREFIX 'A') ARE BASED ON XHHW-2 INSULATION. FOR ANY OTHER CONDITIONS ALLOWED PER SPECIFICATIONS, OR FOR TERMINATIONS OR INSULATION TYPES RATED LESS THAN 75 DEG C, MODIFY SIZES ACCORDING TO NFPA 70.
- E103 100A, (3)#3, (1)#8G, 1" C
 - E202 600A, (2) 3" C, EACH W/ (4)-350kcmil
 - DEM0 DEMOLISH EXISTING FEEDER
 - ETR EXISTING TO REMAIN
 - E102 EXISTING 100A, (2)#3, W/ G
 - E103 EXISTING 100A, (3)#3, W/ G
 - E202 EXISTING 200A, (2)#4/0, W/ G
 - E202A EXISTING 200A, (2)#3/0, W/ G
 - E222 EXISTING 225A, (2)#4/0, W/ G
 - E303 EXISTING 300A, (3) 350 kcmil, W/ G
 - E402 EXISTING 400A, (2) 500 kcmil, W/ G
 - E403 EXISTING 400A, (3) 350 kcmil, W/ G
 - E603 EXISTING 600A, (3)C, EACH W/(2)600 kcmil, W/ G

ELECTRICAL PLAN NOTES:

- 1 COORDINATE WITH LOCAL ELECTRICAL UTILITY REQUIREMENTS PRIOR TO START OF CONSTRUCTION.
- 2 IF EXISTING WIRE SIZES DEVIATE FROM DRAWINGS NOTIFY THE EOR FOR REVIEW.

1 ONE-LINE DIAGRAM (ELECTRICAL ONE-LINE IS SHOWN FOR REFERENCE ONLY)
SCALE: NONE

Short-Circuit and Voltage Drop Calculations

Distances are for calculation purposes only and shall not be used for contractor takeoffs nor bidding - Contractor shall notify Engineer of any field condition that results in a change of 10% or greater circuit distance

The following calculations are based on the "Point-by-Point" method where:

ISC₍₁₎ = ISC₍₁₎ x M₁ M = 1/(1+f)
 ISC₍₁₎ = short circuit current at fault point 1
 ISC₍₂₎ = short circuit current at fault point 2

Feeder: $f_{(100)} = 1.732 \times L \times I_{sc}$
 C x E

XFMR: $f_{(30)} = \frac{IP(sca) \times Vp \times 1.73 \times \%Z}{100,000 \times KVA}$
 C x E

$I_{sc(100)} = \frac{Vp \times M \times IP(sca)}{Vs}$

VOLTAGE DROP (3Ø):
 $\%VD = ((R \times \cos(\arccos(pf)) + X \times \sin(\arccos(pf))) \times L \times I \times 1.73) / E$
 VOLTAGE DROP (1Ø):
 $\%VD = ((R \times \cos(\arccos(pf)) + X \times \sin(\arccos(pf))) \times 2 \times L \times I) / E$

IP = Primary short circuit current
 Vp = Primary voltage
 IS = Secondary short circuit current
 Vs = Secondary voltage
 L = Length of circuit E = Line to line volts
 C = "C" Factor from Bussman table where "C" = 1/impedance per linear foot

Feeder Types =
 NM - Non Magnetic Conduit, M - Magnetic Conduit, FB - Feeder Busway, PB - Plug-in Busway, TX - Transformer

%VD CUM = Cumulative Voltage Drop from Fault Point 1 to Fault Point #
 R = resistance in ohms per LF
 X = reactances in ohms per LF

Fault Point (F#)	Bus/Feeder Description	Source (Fault Point)	Phase	Source Isc (amps)	Conduit Type/TX	Material	Feeder Quantity of Parallel Sets and Bus/Phase & Neutral Size	Conductor "C" Value	Busway "C" Value	L-L Voltage (E)	Circuit Length (L)	Load Power Factor (pf)	Circuit Load (Amperage)	Resistance (R)	Reactance (X)	Arccos (pf) (Radians)	Type	Degree Rise	kVA	Transformer		Secondary Voltage	Tap Setting	f	M	Fault Current (amps)	Voltage Drop (%VD)	Cumulative Voltage Drop (%VD)	Fault Point (F#)	
																				New Xlmr Z	Existing Xlmr Z									
1	Utility Service Point			42,453																										
Motor Contribution																														
2	SERVICE WIRE WAY	20	3	18110	M	CU	2	22965	--	240	70	0.9	400	0.000025	0.000048	0.451027									0.199	0.83	15102	-0.44%	-1.87%	2
3	TO L4 DISC.	2	3	15102	M	CU	1	12844	--	240	1	0.9	160	0.000079	0.000052	0.451027									0.008	0.99	14975	-0.01%	-1.88%	3
4	TO LDLC DISC	3	1	14975	M	CU	1	4774	--	240	1	0.9	80	0.000250	0.000059	0.451027									0.026	0.97	14593	-0.02%	-1.90%	4
5	PNL LDLC	4	1	14593	M	CU	1	4774	--	240	200	0.9	22	0.000250	0.000059	0.451027									5.095	0.16	2394	-0.92%	-2.82%	5
6	PNL L4	3	3	14975	M	CU	1	12844	--	240	50	0.9	32	0.000079	0.000052	0.451027									0.421	0.70	10540	-0.11%	-1.99%	6
7	TO DP1 DISC	2	3	15102	M	CU	1	19704	--	240	1	0.9	200	0.000039	0.000050	0.451027									0.006	0.99	15019	-0.01%	-1.88%	7
8	PNL DP1	7	3	15019	M	CU	1	19704	--	240	10	0.9	200	0.000039	0.000050	0.451027									0.056	0.95	14236	-0.08%	-1.86%	8
9	TO L5 DISC.	2	1	15102	M	CU	1	15082	--	240	1	0.9	180	0.000063	0.000051	0.451027									0.008	0.99	14977	-0.01%	-1.88%	9
10	PNL L5	9	1	14977	M	CU	1	15082	--	240	10	0.9	180	0.000063	0.000051	0.451027									0.083	0.92	13832	-0.12%	-2.00%	10
11	TO KP DISC.	2	1	15102	M	CU	1	15082	--	240	1	0.9	120	0.000063	0.000051	0.451027									0.008	0.99	14977	-0.01%	-1.88%	11
12	PNL KP	11	1	14977	M	CU	1	15082	--	240	170	0.9	120	0.000063	0.000051	0.451027									1.407	0.42	6223	-1.34%	-3.22%	12
13	TO DP2 DISC.	2	3	15102	M	CU	1	19704	--	240	1	0.9	180	0.000039	0.000050	0.451027									0.006	0.99	15019	-0.01%	-1.88%	13
14	PNL DP2	13	3	15019	M	CU	1	19704	--	240	170	0.9	180	0.000039	0.000050	0.451027									0.935	0.52	7761	-1.26%	-3.13%	14
15	TO DP DISC.	2	1	15102	M	CU	1	22185	--	240	1	0.9	120	0.000029	0.000048	0.451027									0.006	0.99	15017	0.00%	-1.87%	15
16	PNL DP	2	1	15102	M	CU	1	22185	--	240	200	0.9	120	0.000029	0.000048	0.451027									1.135	0.47	7075	-0.94%	-2.81%	16
17	PNL 2	16	1	7075	M	CU	1	12844	--	240	70	0.9	50	0.000079	0.000052	0.451027									0.321	0.76	5354	-0.27%	-3.08%	17
18	PNL 3	16	1	7075	M	CU	1	4774	--	240	60	0.9	20	0.000250	0.000059	0.451027									0.741	0.57	4064	-0.25%	-3.06%	18
19	TO DOUBLE THROW SWITCH	1	3	42453	NM	CU	2	22737	--	240	150	0.9	400	0.000038	0.000040	0.451027									1.011	0.50	21114	-1.12%	-1.12%	19
20	PULL BOX	19	3	21114	M	CU	2	22965	--	240	50	0.9	400	0.000025	0.000048	0.451027									0.186	0.86	18110	-0.31%	-1.43%	20



ANDRIA J. ODROWSKI
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ISSUE DATE: 12-9-19

CAD DWG FILE:T1906-001-6264-E-601
DRAWN BY: JRF
CHECKED BY: BW
DESIGNED BY: JRF

SHEET TITLE:
ELECTRICAL
SCHEDULES AND
ONE-LINE

SHEET NUMBER:

E-601



ANDRIA J. ODROWSKI
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CAD DWG FILE:T1906-001-6264-E-603
DRAWN BY: JRF
CHECKED BY: BW
DESIGNED BY: JRF

SHEET TITLE:
ELECTRICAL
SCHEDULES

SHEET NUMBER:

E-603

PANELBOARD: 2 EXISTING										FED FROM: PANEL DP		EQUIPMENT GROUND BUS	
BUS AMPS: 225A										AIC RATING: FCA +10% MINIMUM FULLY RATED			
MAIN SIZE/TYPE: 200A MCB										SERVES: MOUNTING: RECESSED			
VOLTS/PHASE: 120/240V, 1PH, 3W										LOCATION: MENS LOCKER ROOM			
SECTION: 1													
CKT NO	DESCRIPTION	VOLTAMPS/PHASE		WIRE NO	BKR AMP	P	BKR WIRE NO	VOLTAMPS/PHASE		DESCRIPTION	CKT NO		
		A	B					A	B				
EX 1	LTG - M LOCKER	700			20	1	1	20	500	LTG - M LOCKER	2		
EX 3	RECEPT - OFFICE RAD		360		20	1	1	20	360	RECEPT - CL #1	4		
EX 5	RECEPT - DAY RM	360			20	1	1	20	500	LTG - CL #1	6		
EX 7	LTG - CL #1		700		20	1	1	20	500	LTG - DAY RM	8		
EX 9	LTG - DAY RM	500			20	1	1	20	360	RECEPT - OFFICE RAD	10		
EX 11	REC. OFFICE RAD		540		20	1	1	20	300	LTG - OFFICE W.	12		
EX 13	LTG - OFFICE W.	700			20	1	1	20	500	LTG - OFFICE E.	14		
EX 15	LTG - OFFICE E.		500		20	1	1	20	300	LTG - NO. FT.	16		
EX 17	LTG - CL #2	700			20	1	1	20	300	LTG - CL #2	18		
EX 19	LTG - HALL		500		20	1	1	20	500	LTG - HALL	20		
EX 21	RECEPT - LOCKER RM WALL		540		20	1	1	20	500	LTG - S4 OFFICE	22		
EX 23	RECEPT - LOCKER RM WALL		540		20	1	1	20		RECEPT - 20 AMP COPIER	24		
EX 25	SPACE								720	SPARE	26		
EX 27	SPACE									SPARE	28		
EX 29	SPACE									SPARE	30		
EX 31	SPACE									SPARE	32		
EX 33	SPACE									SPARE	34		
EX 35	SPACE									SPARE	36		
EX 37	SPACE									SPARE	38		
EX 39	SPACE									SPARE	40		
EX 41	SPACE									SPARE	42		
SUBTOTAL		3,500	3,140						3,380	1,960			
TOTAL PHASE A - VA		6,880											
AMPS		57											
TOTAL PHASE B - VA		5,100											
AMPS		43											
TOTAL PNLBD - VA		11,980							11,980	1.00			
AMPS		50									11,980 VA		
											50 A		

PANELBOARD NOTES
EX - EXTEND EXISTING BRANCH CIRCUITS FROM EXISTING PANEL. FIELD VERIFY EXISTING LOAD AND UPDATE DIRECTORY, IF UNUSED NOTE AS SPARE AND TURN OFF.

PANELBOARD: 3 NEW										FED FROM: PANEL DP		EQUIPMENT GROUND BUS	
BUS AMPS: 100A										AIC RATING: FCA +10% MINIMUM FULLY RATED			
MAIN SIZE/TYPE: 100A MCB										SERVES: SCULLERY			
VOLTS/PHASE: 120/240V, 1PH, 3W										MOUNTING: RECESSED			
SECTION: 1										LOCATION: ASSEMBLY HALL			
CKT NO	DESCRIPTION	VOLTAMPS/PHASE		WIRE NO	BKR AMP	P	BKR WIRE NO	VOLTAMPS/PHASE		DESCRIPTION	CKT NO		
		A	B					A	B				
1	SPARE				20	1	1	20		SPARE	2		
3	SPARE				20	1	1	20		SPARE	4		
EX 5	2 LTS ROW1	200			20	1	1	20	200	2 LTS ROW1	6		
EX 7	2 LTS ROW2		200		20	1	1	20	200	2 LTS ROW2	8		
EX 9	EXISTING LOAD	500			20	1	1	20		SPACE	10		
EX 11	SPACE									SPACE	12		
EX 13	SPACE								500	N. UNIT HEATER	14		
EX 15	SPACE								600	DOOR OPENER	16		
EX 17	SPACE								600	SODAMACHINE	18		
EX 19	2 LTS ROW4		200		20	1	1	20	200	2 LTS ROW4	20		
EX 21	2 LTS ROW5	200			20	1	1	20	200	2 LTS ROW5	22		
EX 23	2 LTS ROW6		200		20	1	1	20	200	2 LTS ROW6	24		
SUBTOTAL		900	600						1,500	1,200			
TOTAL PHASE A - VA		2,400											
AMPS		20											
TOTAL PHASE B - VA		1,800											
AMPS		15											
TOTAL PNLBD - VA		4,200							4,200	1.00			
AMPS		18									4,200 VA		
											18 A		

PANELBOARD NOTES
EX - EXTEND EXISTING BRANCH CIRCUITS FROM EXISTING PANEL. FIELD VERIFY EXISTING LOAD AND UPDATE DIRECTORY, IF UNUSED NOTE AS SPARE AND TURN OFF.

PANELBOARD: LDLC NEW										FED FROM: SERVICE ENTRANCE		LINE-SIDE LUGS: MECHANICAL	
BUS AMPS: 100A										AIC RATING: FCA +10% MINIMUM FULLY RATED		EQUIPMENT GROUND BUS	
MAIN SIZE/TYPE: 100A MCB										SERVES: MOUNTING: SURFACE			
VOLTS/PHASE: 120/240V, 1PH, 3W										LOCATION: OFFICE 140			
SECTION: 1													
CKT NO	DESCRIPTION	VOLTAMPS/PHASE		WIRE NO	BKR AMP	P	BKR WIRE NO	VOLTAMPS/PHASE		DESCRIPTION	CKT NO		
		A	B					A	B				
EX 1	RECEPTS	180			20	1	1	20	180	RECEPTS	2		
EX 3	RECEPTS		180		20	1	1	20	180	RECEPTS	4		
EX 5	RECEPTS	180			20	1	1	20	180	RECEPTS	6		
EX 7	RECEPTS		180		20	1	1	20	180	RECEPTS	8		
EX 9	RECEPTS	180			20	1	1	30	1,000	30A RECEPTS	10		
EX 11	RECEPTS		180		20	1	1	20		SPARE	12		
EX 13	POWER POLE RECEPT	360			20	1	1	20	180	RECEPTS S. WALL	14		
EX 15	CLASS RM 138 RECEPTS		540		20	1	1			SPACE	16		
EX 17	CLASS RM 138 RECEPTS	540			20	1	1			SPACE	18		
EX 19	CLASS RM 138 RECEPTS		720		20	1	1			SPACE	20		
EX 21	SPACE									SPACE	22		
EX 23	SPACE									SPACE	24		
SUBTOTAL		1,440	1,800						1,540	360			
TOTAL PHASE A - VA		2,980											
AMPS		25											
TOTAL PHASE B - VA		2,160											
AMPS		18											
TOTAL PNLBD - VA		5,140							3,340	1.00			
AMPS		21									5,140 VA		
											21 A		

PANELBOARD NOTES
EX - EXTEND EXISTING BRANCH CIRCUITS FROM EXISTING PANEL. FIELD VERIFY EXISTING LOAD AND UPDATE DIRECTORY, IF UNUSED NOTE AS SPARE AND TURN OFF.

PANELBOARD: L4 (NEW)										FED FROM: SERVICE ENTRANCE		LINE-SIDE LUGS: MECHANICAL	
BUS AMPS: 225A										AIC RATING: FCA +10% MINIMUM FULLY RATED		EQUIPMENT GROUND BUS	
MAIN SIZE/TYPE: 200A MCB										SERVES: MOUNTING: SURFACE			
VOLTS/PHASE: 120/240V, 1PH, 3W										LOCATION: JANITOR 224			
SECTION: 1													
CKT NO	DESCRIPTION	VOLTAMPS/PHASE		WIRE NO	BKR AMP	P	BKR WIRE NO	VOLTAMPS/PHASE		DESCRIPTION	CKT NO		
		A	B					A	B				
EX 1	SPARE				20	1	1	20	500	LTG - 201A/B/C	2		
EX 3	LTG - 201D/E		500		20	1	1	20	500	LTG - 201A/B/C	4		
EX 5	LTG - DISCOM WKAR				20	1	1	20	500	LTG - 201F/G/M/J	6		
EX 7	LTG - 201	500			20	1	1	20	500	LTG - 202	8		
EX 9	SPARE				20	1	1	20		LTG - 202 FLAT TV	10		
EX 11	LTG - BATH/LKR RM		700		20	1	1	20	180	200	LTG - CORRIDOR & EXIT	12	
EX 13	RECEPT - FLOOR	360			20	1	1	20	200	LTG - STAIRS & EXIT	14		
EX 15	RECEPT - FLOOR		360		20	1	1	20	360	RECEPT - 201F/G	16		
EX 17	RECEPT - 201J/M		360		20	1	1	20		RECEPT - WIREMOLD	18		
EX 19	RECEPT - WIREMOLD	720			20	1	1	20	360	RECEPT - 201B/C/D	20		
EX 21	RECEPT - WIREMOLD		720		20	1	1	20	360	RECEPT - 201A	22		
EX 23	RECEPT - 201E		360		20	1	1	20		RECEPT - WIREMOLD	24		
EX 25	PROP HTRS - LOCKER RM	200			20	1	1	20	540	RECEPT - WIREMOLD	26		
EX 27	RECEPT - RTU'S & E		360		20	1	1	20	200	EF #1	28		
EX 29	RECEPT - 202/CAB HTR		180		20	1	1	20	12	600	WATER COOLER	30	
EX 31	RECS - LKR RM / CORRIDOR	360			20	1	1	20		SPARE	32		
EX 33	SPACE				20	1	1	20	360	RECEPT - BATHROOMS	34		
EX 35	SPACE				20	1	1	20		SPARE	36		
EX 37	SPACE									SPACE	38		
EX 39	SPACE									SPACE	40		
EX 41	SPACE									SPACE	42		
SUBTOTAL		2,140	1,940						2,100	1,960	2,380		
TOTAL PHASE A - VA		4,240											
AMPS		35											
TOTAL PHASE B - VA		3,900											
AMPS		33											
TOTAL PNLBD - VA		4,480							12,020	1.00			
AMPS		37									TOTAL DEMAND *		
TOTAL PNLBD - VA		12,620									12,620 VA		
AMPS		30									32 A		

PANELBOARD NOTES
EX - EXTEND EXISTING BRANCH CIRCUITS FROM EXISTING PANEL. FIELD VERIFY EXISTING LOAD AND UPDATE DIRECTORY, IF UNUSED NOTE AS SPARE AND TURN OFF.

PANELBOARD: L5 NEW										FED FROM: SERVICE ENTRANCE		LINE-SIDE LUGS: MECHANICAL	
BUS AMPS: 225A										AIC RATING: FCA +10% MINIMUM FULLY RATED		EQUIPMENT GROUND BUS	
MAIN SIZE/TYPE: MLO										SERVES: MOUNTING: SURFACE			
VOLTS/PHASE: 120/240V, 1PH, 3W										LOCATION: MECH ROOM			
SECTION: 1													
CKT NO	DESCRIPTION	VOLTAMPS/PHASE		WIRE NO	BKR AMP	P	BKR WIRE NO	VOLTAMPS/PHASE		DESCRIPTION	CKT NO		
		A	B					A	B				
EX.C1 1	LTG - 114B/115B	300			20	1	1	20	500	LTG - 115	2		
EX 3	LTG - 114/114A		500		20	1	1	20	500	LTG - 115	4		
EX.C1 5	LTG - 114/114A												



ANDRIA J. ODROWSKI
LICENSE # E-27453
Dec 6 2019

PROFESSIONAL SEAL



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12/31/20

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION

MISSOURI NATIONAL GUARD

RENOVATE EXTERIOR &
INTERIOR LEXINGTON
READINESS CENTER

408 S. 26TH STREET
LEXINGTON, MISSOURI

PROJECT #: T1906-01
SITE #: 6264
ASSET #: 8136264001

REVISION:
DATE: _____
REVISION:
DATE: _____
REVISION:
DATE: _____
ISSUE DATE: 12-9-19

CAD DWG FILE: T1906-001-6264-E-604
DRAWN BY: JRF
CHECKED BY: BW
DESIGNED BY: JRF

SHEET TITLE:
ELECTRICAL
SCHEDULES

SHEET NUMBER:

E-604

LIGHT FIXTURE SCHEDULE										
TYPE	MANUFACTURER / MODEL #	APPROVED ALTERNATES	LAMPING / LIGHT SOURCE	DIMMING TYPE	VOLT	INPUT WATTS	INPUT VA	DESCRIPTION	NOTES	
A1	COOPER #METALUX 24CGT4535C	ACUITY (LITHONIA), GE, LSI INDUSTRIES, PHILIPS, H.E. WILLIAMS	LED 80 CRI, 3500K 4300 LUMENS 60,000 HRS	0-10V	120	39	42	RECESSED 2'x4' LED FLAT PANEL. 0-10V DIMMING. PROVIDE MOUNTING KIT FOR RECESSED GRID APPLICATION.	1.2	
A1E	COOPER #METALUX 24CGT4535C - EBLED14W	ACUITY (LITHONIA), GE, LSI INDUSTRIES, PHILIPS, H.E. WILLIAMS	LED 80 CRI, 3500K 4300 LUMENS 60,000 HRS	0-10V	120	39	42	SAME AS TYPE "A2" FIXTURE EXCEPT WITH AN EMERGENCY BATTERY PACK. EMERGENCY BATTERY PACK SHALL BE CAPABLE OF OPERATING AT A TOTAL OF 14 WATTS IN EMERGENCY MODE FOR A MINIMUM OF 90 MINUTES. BATTERY PACK SHALL HAVE MAINTENANCE-FREE NICKEL-CADMIUM BATTERY, CHARGER, AND INTEGRAL INDICATING LIGHT AND TEST SWITCH.	1.2	
A2	COOPER #METALUX 24CGT4535C	ACUITY (LITHONIA), GE, LSI INDUSTRIES, PHILIPS, H.E. WILLIAMS	LED 80 CRI, 3500K 4300 LUMENS 60,000 HRS	0-10V	120	39	42	2'x4' SURFACE MOUNTED LED FLAT PANEL. 0-10V DIMMING. PROVIDE SURFACE MOUNT KIT.	1.2	
A2E	COOPER #METALUX 24CGT4535C - EBLED14W	ACUITY (LITHONIA), GE, LSI INDUSTRIES, PHILIPS, H.E. WILLIAMS	LED 80 CRI, 3500K 4300 LUMENS 60,000 HRS	0-10V	120	39	42	SAME AS TYPE "A2" FIXTURE EXCEPT WITH AN EMERGENCY BATTERY PACK. EMERGENCY BATTERY PACK SHALL BE CAPABLE OF OPERATING AT A TOTAL OF 14 WATTS IN EMERGENCY MODE FOR A MINIMUM OF 90 MINUTES. BATTERY PACK SHALL HAVE MAINTENANCE-FREE NICKEL-CADMIUM BATTERY, CHARGER, AND INTEGRAL INDICATING LIGHT AND TEST SWITCH.	1.2	
A3	COOPER #METALUX 14CGT4035C	ACUITY (LITHONIA), GE, LSI INDUSTRIES, PHILIPS, H.E. WILLIAMS	LED 80 CRI, 3500K 4000 LUMENS 60,000 HRS	0-10V	120	39	42	1'x4' SURFACE MOUNTED LED FLAT PANEL. 0-10V DIMMING. PROVIDE SURFACE MOUNT KIT.	1.2	
A3E	COOPER #METALUX 14CGT4035C - EBLED14W	ACUITY (LITHONIA), GE, LSI INDUSTRIES, PHILIPS, H.E. WILLIAMS	LED 80 CRI, 3500K 3000 LUMENS 60,000 HRS	0-10V	120	39	42	SAME AS TYPE "A3" FIXTURE EXCEPT WITH AN EMERGENCY BATTERY PACK. EMERGENCY BATTERY PACK SHALL BE CAPABLE OF OPERATING AT A TOTAL OF 14 WATTS IN EMERGENCY MODE FOR A MINIMUM OF 90 MINUTES. BATTERY PACK SHALL HAVE MAINTENANCE-FREE NICKEL-CADMIUM BATTERY, CHARGER, AND INTEGRAL INDICATING LIGHT AND TEST SWITCH.	1.2	
A4	COOPER #METALUX 22CGT3535C	ACUITY (LITHONIA), GE, LSI INDUSTRIES, PHILIPS, H.E. WILLIAMS	LED 80 CRI, 3500K 3500 LUMENS 60,000 HRS	0-10V	120	31	33	RECESSED 2'x2' LED FLAT PANEL. 0-10V DIMMING. PROVIDE MOUNTING KIT FOR RECESSED GRID APPLICATION.	1.2	
A4E	COOPER #METALUX 22CGT3535C - EBLED14W	ACUITY (LITHONIA), GE, LSI INDUSTRIES, PHILIPS, H.E. WILLIAMS	LED 80 CRI, 3500K 3500 LUMENS 60,000 HRS	0-10V	120	31	33	SAME AS TYPE "A4" FIXTURE EXCEPT WITH AN EMERGENCY BATTERY PACK. EMERGENCY BATTERY PACK SHALL BE CAPABLE OF OPERATING AT A TOTAL OF 14 WATTS IN EMERGENCY MODE FOR A MINIMUM OF 90 MINUTES. BATTERY PACK SHALL HAVE MAINTENANCE-FREE NICKEL-CADMIUM BATTERY, CHARGER, AND INTEGRAL INDICATING LIGHT AND TEST SWITCH.	1.2	
F1	WILLIAMS #75L SERIES	ACUITY (LITHONIA), GE, LSI INDUSTRIES, PHILIPS, EATON (COOPER),	LED 80 CRI, 3500K 3800 LUMENS 50,000 HRS	0-10V	120	41	42	4'-0" PENDANT OR SURFACE MOUNTED LED STRIP FIXTURE. 22 GAUGE DIE-FORMED STEEL HOUSING. FACTORY MOUNTED, PREWIRED SOCKETS. BAKED WHITE ENAMEL FINISH FOR ALL PARTS, PAINTED AFTER FABRICATION. HIGH POWER FACTOR ELECTRONIC BALLAST. UL LISTED FOR DRY AND DAMP LOCATIONS. 14 GAUGE WIRE GUARD. SURFACE MOUNT FIXTURE IN AREAS WITH CEILINGS AND SUSPEND FIXTURE AT 10' AFF IN AREAS OPEN TO STRUCTURE. 0-10V DIMMING.	1.2	
F1E	WILLIAMS #75L SERIES	ACUITY (LITHONIA), GE, LSI INDUSTRIES, PHILIPS, EATON (COOPER)	LED 80 CRI, 3500K 3000 LUMENS 60,000 HRS	0-10V	120	41	42	SAME AS TYPE "F1" EXCEPT WITH A UL LISTED EMERGENCY BATTERY RATED FOR 90 MINUTES	1.2	
F2	LITHONIA #STL4 SERIES	GE, LSI INDUSTRIES, PHILIPS, EATON (COOPER), H.E. WILLIAMS	LED 80 CRI, 3500K 3000 LUMENS 60,000 HRS	0-10V	120	33	34	4 FOOT NOMINAL LENGTH LED WRAPAROUND, DIE-FORMED ALUMINUM HOUSING WITH DIE-CAST ALUMINUM END CAPS, RIBBED ACRYLIC DIFFUSER, WHITE FINISH, PAINTED AFTER FABRICATION. HIGH POWER FACTOR ELECTRONIC BALLAST, UL LISTED FOR DRY AND DAMP LOCATIONS. SURFACE MOUNT FIXTURE. 0-10V DIMMING.	1.2	
F2E	LITHONIA #STL4 SERIES	GE, LSI INDUSTRIES, PHILIPS, EATON (COOPER), H.E. WILLIAMS	LED 80 CRI, 3500K 3000 LUMENS 60,000 HRS	0-10V	120	33	34	SAME AS TYPE "F2" FIXTURE EXCEPT WITH AN 90 MINUTE EMERGENCY BATTERY. BATTERY PACK SHALL DELIVER 1400 LUMENS IN EMERGENCY MODE AND HAVE A MAINTENANCE-FREE NICKEL-CADMIUM BATTERY, CHARGER, AND INTEGRAL INDICATING LIGHT AND TEST SWITCH.	1.2	
F3	LITHONIA #FEM-L48-3000LM-LPAFL-MD-120-GZ10-35K-80CRI	GE, LSI INDUSTRIES, PHILIPS, EATON (COOPER), H.E. WILLIAMS	LED 80 CRI, 3500K 3000 LUMENS 60,000 HRS	0-10V	120	23	24	4 FOOT NOMINAL LENGTH LED, DIE-FORMED ALUMINUM HOUSING WITH DIE-CAST ALUMINUM END CAPS, RIBBED ACRYLIC DIFFUSER, WHITE FINISH, PAINTED AFTER FABRICATION. UL LISTED FOR WET LOCATIONS. SURFACE MOUNT FIXTURE. 0-10V	1.2	
F3E	LITHONIA #FEM-L48-3000LM-LPAFL-MD-120-GZ10-35K-80CRI E15WCP	GE, LSI INDUSTRIES, PHILIPS, EATON (COOPER), H.E. WILLIAMS	LED 80 CRI, 3500K 3000 LUMENS 60,000 HRS	0-10V	120	23	24	SAME AS TYPE "F3" FIXTURE EXCEPT WITH AN EMERGENCY BATTERY PACK. EMERGENCY BATTERY PACK SHALL BE CAPABLE OF OPERATING AT A TOTAL OF 15 WATTS IN EMERGENCY MODE FOR A MINIMUM OF 90 MINUTES. BATTERY PACK SHALL HAVE MAINTENANCE-FREE NICKEL-CADMIUM BATTERY, CHARGER, AND INTEGRAL INDICATING LIGHT AND TEST SWITCH.	1.2	
F4	WILLIAMS #75L SERIES	ACUITY (LITHONIA), GE, LSI INDUSTRIES, PHILIPS, EATON (COOPER),	LED 80 CRI, 3500K 7600 LUMENS 50,000 HRS	0-10V	120	78	80	8'-0" PENDANT OR SURFACE MOUNTED LED STRIP FIXTURE. 22 GAUGE DIE-FORMED STEEL HOUSING. FACTORY MOUNTED, PREWIRED SOCKETS. BAKED WHITE ENAMEL FINISH FOR ALL PARTS, PAINTED AFTER FABRICATION. HIGH POWER FACTOR ELECTRONIC BALLAST. UL LISTED FOR DRY AND DAMP LOCATIONS. 14 GAUGE WIRE GUARD. SURFACE MOUNT FIXTURE IN AREAS WITH CEILINGS AND SUSPEND FIXTURE AT 10' AFF IN AREAS OPEN TO STRUCTURE. 0-10V DIMMING.	1.2	
F4E	WILLIAMS #75L SERIES	ACUITY (LITHONIA), GE, LSI INDUSTRIES, PHILIPS, EATON (COOPER)	LED 80 CRI, 3500K 4000 LUMENS 60,000 HRS	0-10V	120	42	43	SAME AS TYPE "F1" EXCEPT WITH A UL LISTED EMERGENCY BATTERY RATED FOR 90 MINUTES	1.2	
H1	ACUITY #E3-L-100LM-35K-MVOLT-G2-80CRI-ZT-AC22	GE, LSI INDUSTRIES, PHILIPS, EATON (COOPER), H.E. WILLIAMS	LED 80 CRI, 3500K 10,000 LUMENS	0-10V	120	84	86	HIGH-BAY LED FIXTURE SUSPENDED FROM STRUCTURE WITH BOTTOM OF FIXTURE AT 18' A.F.F. DIE CAST OR EXTRUDED ALUMINUM HOUSING WITH INTEGRAL HEAT SINK FOR COOL OPERATION. TEMPERED GLASS PROTECTIVE LENS, INTEGRAL SURGE PROTECTION. WIDE DISTRIBUTION OPTICS. 0-10V DIMMING.	1.2	
H1E	ACUITY #E3-L-100LM-35K-MVOLT-G2-80CRI-ZT-AC22	GE, LSI INDUSTRIES, PHILIPS, EATON (COOPER), H.E. WILLIAMS	LED 80 CRI, 3500K 10,000 LUMENS	0-10V	120	84	86	SAME AS TYPE "H1" EXCEPT FIXTURE SHALL BE CONNECTED TO AN EMERGENCY LIGHTING INVERTER FOR OPERATION IN EMERGENCY SITUATIONS.	1.2	
S1E	WILLIAMS #WPTZ SERIES	ACUITY (LITHONIA), GE, LSI INDUSTRIES, PHILIPS, EATON (COOPER)	LED 70 CRI, 5000K 3,800 LUMENS	NON-DIM	120	42	44	LED EXTERIOR WALL PACK. FULL CUTOFF. BRONZE FINISH. RATED FOR WET LOCATIONS. PROVIDE WITH 90 MINUTE EMERGENCY BATTERY. BATTERY PACK SHALL DELIVER 1400 LUMENS IN EMERGENCY MODE AND HAVE A LUMENS IN EMERGENCY MODE AND HAVE A MAINTENANCE-FREE NICKEL-CADMIUM BATTERY, CHARGER, AND INTEGRAL INDICATING LIGHT AND TEST SWITCH.	1.2	
S2E	GOTHAM #EVO CYL 40/20 6AR MMD LD MVOLT GZ10 FCM DDB	ACUITY (LITHONIA), GE, LSI INDUSTRIES, PHILIPS, EATON (COOPER)	LED 80 CRI, 4000K 2000 LUMENS	NON-DIM	120	23	25	LED EXTERIOR SURFACE MOUNTED CYLINDER. BRONZE FINISH. RATED FOR WET LOCATIONS. PROVIDE WITH 90 MINUTE EMERGENCY BATTERY. BATTERY PACK SHALL DELIVER 1400 LUMENS IN EMERGENCY MODE AND HAVE A LUMENS IN EMERGENCY MODE AND HAVE A MAINTENANCE-FREE NICKEL-CADMIUM BATTERY, CHARGER, AND INTEGRAL INDICATING LIGHT AND TEST SWITCH.	1.2	
S3	COOPER #LUMAR TCRL15 DDB	ACUITY (LITHONIA), GE, LSI INDUSTRIES, PHILIPS, EATON (COOPER)	LED 80 CRI, 4000K 2000 LUMENS	NON-DIM	120	15	18	LED EXTERIOR ADJUSTABLE SPOT LIGHT. SURFACE MOUNTED CYLINDER. BRONZE FINISH. RATED FOR WET LOCATIONS.	1.2	
W1	WILLIAMS #WMA SERIES	ACUITY (LITHONIA), GE, LSI INDUSTRIES, PHILIPS, EATON (COOPER)	LED 80 CRI, 3500K 1500 LUMENS 50,000 HRS	0-10V	120	41	43	2 FOOT NOMINAL LENGTH WALL-MOUNTED LED VANITY UP AND DOWN LIGHT. ACRYLIC DIFFUSER, WHITE FINISH, UL LISTED FOR DAMP LOCATIONS. 0-10V DIMMING	1.2	
W2	WILLIAMS #WMA SERIES	ACUITY (LITHONIA), GE, LSI INDUSTRIES, PHILIPS, EATON (COOPER)	LED 80 CRI, 3500K 3200 LUMENS 50,000 HRS	0-10V	120	41	43	4 FOOT NOMINAL LENGTH WALL-MOUNTED LED VANITY UP AND DOWN LIGHT. ACRYLIC DIFFUSER, WHITE FINISH, UL LISTED FOR DAMP LOCATIONS. 0-10V DIMMING	1.2	
X1	DUAL LITE #SE SERIES	ACUITY (LITHONIA), GE, LSI INDUSTRIES, PHILIPS, EATON (COOPER), H.E. WILLIAMS	RED LED	N/A	120	5	5	RECESSED, WALL MOUNTED LED EXIT SIGN WITH BATTERY BACKUP. INJECTION MOLDED, HIGH IMPACT CLEAR ACRYLIC PLAQUE. EXTRUDED ALUMINUM HOUSING AND TRIM WHITE HOUSING FINISH. RED LEDS. INTEGRAL NICKEL-CADMIUM BATTERY CAPABLE OF 90 MINUTES OF EMERGENCY OPERATION. SOLID STATE CHARGER WITH LOW VOLTAGE DISCONNECT. INTEGRAL LED INDICATING LIGHT AND TEST SWITCH. SINGLE FACE ON CLEAR BACKGROUND AND DOUBLE FACE ON MIRRORRED BACKGROUND. FACTORY-SCREENED DIRECTIONAL CHEVRON ARROWS. UL 924 COMPLIANT. UL LISTED FOR DAMP LOCATIONS. REFER TO PLANS FOR CHEVRON ARROWS AND NUMBER OF FACES REQUIRED.	1.2	

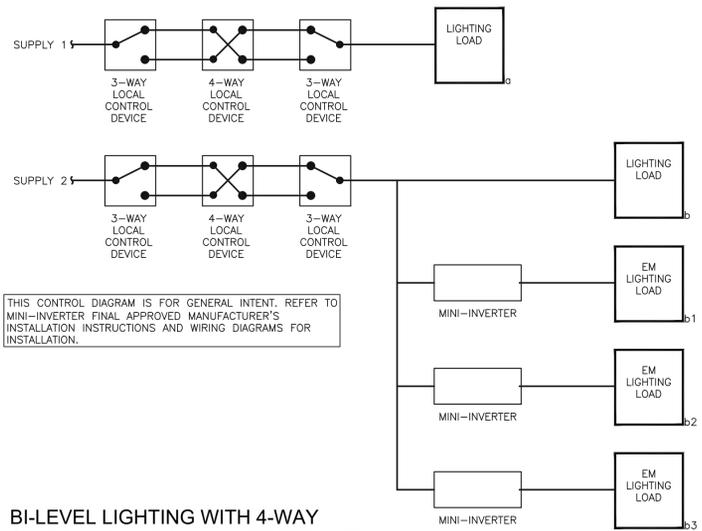
GENERAL NOTES:
A. REFER TO LIGHT FIXTURE SCHEDULE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

LIGHT FIXTURE SCHEDULE GENERAL NOTES:
A. ALL LIGHT FIXTURES AND RELATED COMPONENTS SHALL BE PROVIDED BY THE CONTRACTOR, UNLESS NOTED OTHERWISE.

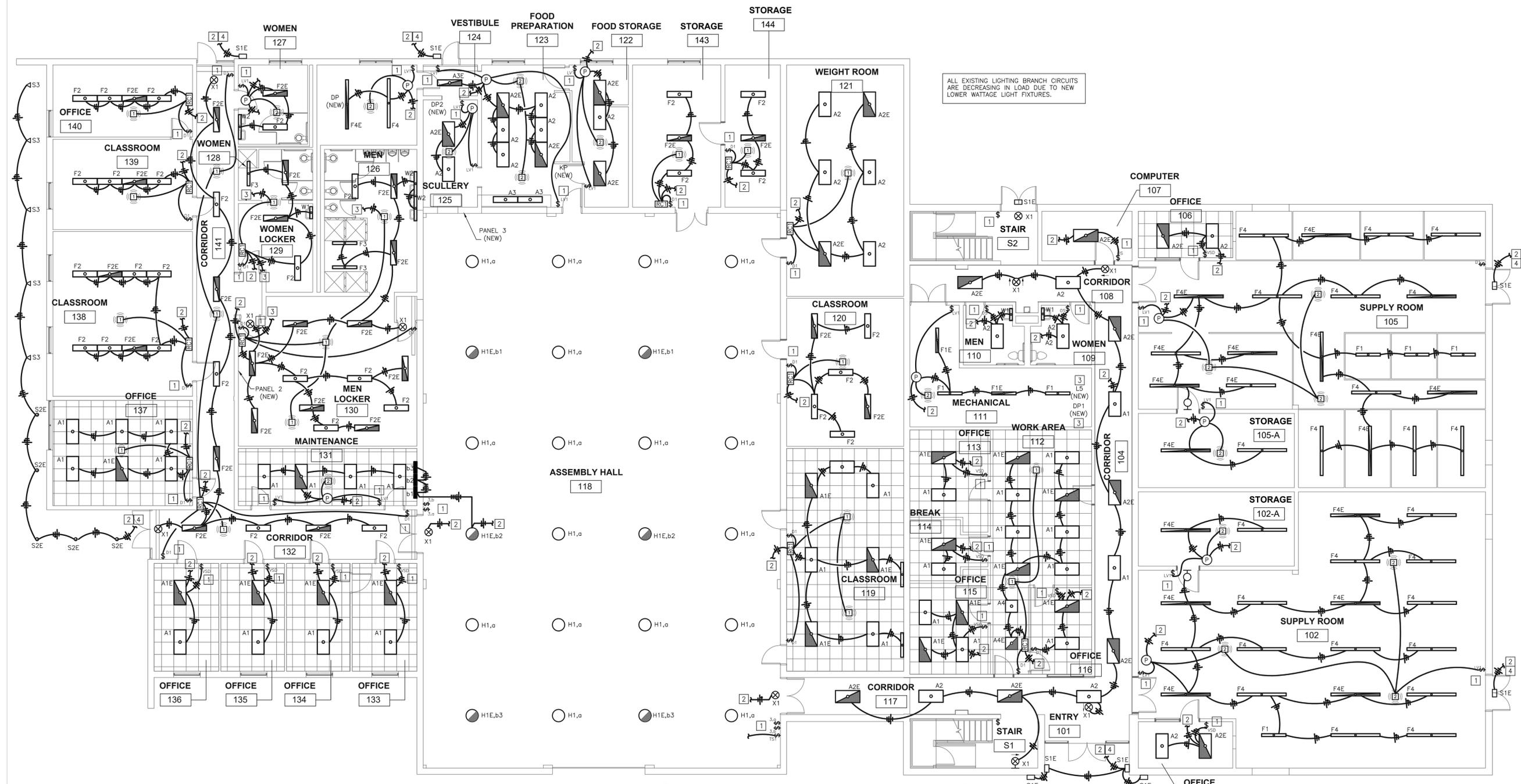
LIGHT FIXTURE SCHEDULE SUPPLEMENTAL SPECIFICATIONS:
1. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBERS ONLY. FIRST READ THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS IN CONJUNCTION WITH THE CATALOG NUMBER TO DETERMINE THE MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.
2. COORDINATE LIGHT FIXTURE MOUNTING HARDWARE AND TRIMS NEEDED TO SUIT CEILING CONDITIONS. LIGHT FIXTURES NEAR OR IN CONTACT WITH INSULATION SHALL COMPLY WITH CODE. MAINTAIN 3" MINIMUM WORKING CLEARANCE BETWEEN NON-IC RATED LIGHT FIXTURE HOUSINGS AND INSULATION ON ALL ADJACENT DUCTWORK, PIPING, WALLS, AND CEILINGS.

LIGHTING CONTROL DEVICE SCHEDULE						
LINE-VOLTAGE WALL SWITCH						
SYMBOL TAG	MANUFACTURER MODEL/SERIES	ALTERNATE MANUFACTURER	DEVICE DESCRIPTION	COVERAGE (W X D)	VOLTAGE	NOTES
STS1	LEGRAND TS-400		ON/OFF WALL BOX TIMER SWITCH WITH ELECTROLUMINESCENT LCD DISPLAY AND ADJUSTABLE TIME RANGE FROM 5 MINUTES TO 12 HOURS. UNIT ALLOWS TIME RESET TO ORIGINAL TIME. FLASHING/AUDIBLE BEEP SIGNALS APPROACHING END OF TIME.	120"	120V	A-H
LINE-VOLTAGE WALL SWITCH OCCUPANCY SENSORS						
SYMBOL TAG	MANUFACTURER MODEL/SERIES	ALTERNATE MANUFACTURER	DEVICE DESCRIPTION	COVERAGE (W X D)	VOLTAGE	NOTES
\$ OS	LEGRAND DW-100	ACUITY, COOPER HUBBELL, LEVITON LUTRON	WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR. INTEGRAL MANUAL OVERRIDE SWITCH. SINGLE RELAY. LINE VOLTAGE. LOAD: 120V=800W, 277V=1200W.	PIR MAJOR 30' x 35' PIR MINOR 15' x 20' ULT MAJOR 20' x 20' ULT MINOR 15' x 15'	120V 277	A-H
LINE-VOLTAGE DIMMING WALL SWITCH OCCUPANCY SENSORS						
SYMBOL TAG	MANUFACTURER MODEL/SERIES	ALTERNATE MANUFACTURER	DEVICE DESCRIPTION	COVERAGE (W X D)	VOLTAGE	NOTES
\$ VSD	LEGRAND PW-311	ACUITY, HUBBELL LUTRON	WALL MOUNT PASSIVE INFRARED OCCUPANCY SENSOR. MULTI-WAY. INTEGRAL MANUAL OVERRIDE SWITCH. SINGLE RELAY. LINE VOLTAGE. 0-10V DIMMING. 50mA SINK. LOAD: 120V=1000W, 277V=1200W.	MAJOR 30' x 35' MINOR 15' x 20'	120V 277	A-H
((2))	LEGRAND DT-300	ACUITY, COOPER HUBBELL, LEVITON	CEILING MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR. 90 DEGREE COVERAGE. LOW VOLTAGE. ISOLATED RELAY.	PIR MAJOR 36' Ø PIR MINOR 25' Ø ULT 36' x 36'	24	A-H
STAND-ALONE LOW-VOLTAGE POWER PACKS						
SYMBOL TAG	MANUFACTURER MODEL/SERIES	ALTERNATE MANUFACTURER	DEVICE DESCRIPTION	COVERAGE (W X D)	VOLTAGE	NOTES
P	LEGRAND BZ-250	ACUITY, COOPER HUBBELL, LEVITON	POWER PACK FOR LOW VOLTAGE OCCUPANCY SENSORS. 20A LOAD. (1) RELAY. MANUAL- AND AUTO-ON MODES. HOLD-ON AND -OFF INPUTS. LOAD: 16A AT 120V OR 277V. OUTPUT: 225mA AT 24V. FLENUM RATED.		120V 277	A-H
STAND-ALONE LOW-VOLTAGE SWITCHES						
SYMBOL TAG	MANUFACTURER MODEL/SERIES	ALTERNATE MANUFACTURER	DEVICE DESCRIPTION	COVERAGE (W X D)	VOLTAGE	NOTES
\$ LV1	LEGRAND DCC2	ACUITY, COOPER HUBBELL, LEVITON	MOMENTARY 1-BUTTON DECORATOR SWITCH FOR MANUAL ON/OFF CONTROL OF STAND-ALONE LOW-VOLTAGE OCCUPANCY SENSORS. INTEGRAL LED ILLUMINATES WHEN LOAD IS ON.		24	A-H
NETWORK LIGHTING CONTROL SYSTEMS						
NETWORK OCCUPANCY SENSORS						
SYMBOL TAG	MANUFACTURER MODEL/SERIES	ALTERNATE MANUFACTURER	DEVICE DESCRIPTION	COVERAGE (W X D)	VOLTAGE	NOTES
((1))	LEGRAND LMP-C-100	ACUITY, CRESTRON ETC, HUBBELL	CEILING MOUNT PASSIVE INFRARED OCCUPANCY SENSOR. 90 DEGREE COVERAGE. DIGITAL. (2) RJ45 PORTS. IR TRANSCIEVER FOR WIRELESS SETUP.	MAJOR 31' Ø MINOR 15' Ø	24	A-H
RC1	LEGRAND LMRC-211	ACUITY, CRESTRON ETC, HUBBELL	DIGITAL ROOM CONTROLLER FOR ON/OFF/0-10V DIMMING CONTROL OF LIGHTING LOADS. (1) 20A LOAD INPUT. (1) RELAY OUTPUT. 100mA SINK PER RELAY. MANUAL-, PARTIAL-, AND AUTO-ON MODES.		120V 277	A-H
NETWORK LIGHTING SWITCHES						
SYMBOL TAG	MANUFACTURER MODEL/SERIES	ALTERNATE MANUFACTURER	DEVICE DESCRIPTION	COVERAGE (W X D)	VOLTAGE	NOTES
\$ D1	LEGRAND LMDM-101	ACUITY, CRESTRON ETC, HUBBELL	DIGITAL SWITCH FOR MANUAL ON/OFF/DIMMING CONTROL. INTEGRAL LED ILLUMINATES WHEN LOAD IS ON. (2) RJ45 PORTS. IR TRANSCIEVER FOR WIRELESS SETUP.		24	A-H

GENERAL NOTES:
A. OCCUPANCY SENSOR LAYOUT DESIGNED FROM BASIS-OF-DESIGN COVERAGE PATTERNS. IF SUBMITTING ALTERNATE PER 'EQUIVALENT MANUFACTURER' COLUMN, ADJUST SENSOR QUANTITIES AND LOCATIONS PER MANUFACTURER-SPECIFIC SPACING CRITERIA.
B. PROVIDE SHOP DRAWINGS FOR ENGINEER AND ARCHITECT REVIEW THAT INCLUDE PRODUCT CUTSHEETS AND PROJECT-SPECIFIC LAYOUTS. LAYOUTS MUST INCLUDE SENSOR LOCATIONS, HEIGHTS, ORIENTATION, AND COVERAGE AREAS. SHOW COORDINATION WITH ALL OTHER CEILING DEVICES INCLUDING BUT NOT LIMITED TO HVAC SUPPLY AND RETURN GRILLES, SPRINKLERS, LIGHT FIXTURES, AND OTHER OWNER-PROVIDED CEILING MOUNTED DEVICES SUCH AS SPEAKERS, SECURITY CAMERAS, PROJECTORS, ETC. (SENSORS MAY BE ADVERSELY AFFECTED IF LOCATED TOO CLOSE TO OTHER CEILING MOUNTED DEVICES). ALSO PROVIDE SCHEMATICS AND SCHEDULES WHEN APPLICABLE.
C. NOT USED
D. VERIFY COLOR(S) FOR ALL WALL AND CEILING MOUNTED DEVICES WITH THE ARCHITECT.
E. ALL WALL SWITCH AND CEILING SENSORS SHALL HAVE AN ADJUSTABLE TIME DELAY RANGE OF 0-30 MIN. UNO. CONFIRM SENSOR SETTINGS WITH SEQUENCE OF OPERATIONS AND OWNER PRIOR TO SYSTEM COMMISSIONING.
F. PROVIDE COPIES OF OPERATION AND MAINTENANCE INSTRUCTIONS FOR ALL DEVICES TO OWNER.
G. PROVIDE A NEUTRAL CONDUCTOR TO ALL WALL SWITCH LOCATIONS PER NEC REQUIREMENTS.
H. DO NOT SHARE NEUTRAL CONDUCTOR ON LOAD SIDE OF DIMMERS.



1. BI-LEVEL LIGHTING WITH 4-WAY SWITCHING AND MINI-INVERTER DETAIL
NO SCALE



ALL EXISTING LIGHTING BRANCH CIRCUITS ARE DECREASING IN LOAD DUE TO NEW LOWER WATTAGE LIGHT FIXTURES.

1 FIRST FLOOR ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"

ELECTRICAL PLAN NOTES:

- 1 LOCATE NEW LIGHT SWITCH AT LOCATION OF DEMOLISHED SWITCH IF POSSIBLE. PROVIDE COVER PLATE FOR ALL ADDITIONAL DEMOLISHED DEVICES NOT UTILIZED IN NEW DESIGN.
- 2 CONNECT TO EXISTING CIRCUITRY PREVIOUSLY SERVING AREA LIGHTING. PROVIDE CONSTANT HOT FOR EMERGENCY EXIT AND LOCALLY CONTROLLED LIGHT FIXTURES.
- 3 ROUTE EXHAUST FAN CONTROL WIRING THROUGH RELAY PACK FOR MAXIMUM TIME DELAY UPON OCCUPANCY. REFERENCE SHEET E114 FOR ADDITIONAL INFORMATION.
- 4 CONNECT TO EXISTING TIMECLOCK FOR EXTERIOR LIGHTS.



ANDRIA J. ODROWSKI
Dec 6 2019
LICENSE # E-27453
PROFESSIONAL SEAL



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OFFICE OF ADMINISTRATION
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MANAGEMENT,
DESIGN AND
CONSTRUCTION

MISSOURI NATIONAL GUARD

RENOVATE EXTERIOR &
INTERIOR LEXINGTON
READINESS CENTER

408 S. 26TH STREET
LEXINGTON, MISSOURI

PROJECT #: T1906-01
SITE #: 6264
ASSET #: 8136264001

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 12-9-19

CAD DWG FILE: T1906-001-6264-E-701
DRAWN BY: JRF
CHECKED BY: BW
DESIGNED BY: JRF

SHEET TITLE:
FIRST FLOOR
ELECTRICAL
LIGHTING
PLAN

SHEET NUMBER:

E-701



ANDRIA J. ODROWSKI
LICENSE # E-27453
Dec 6 2019

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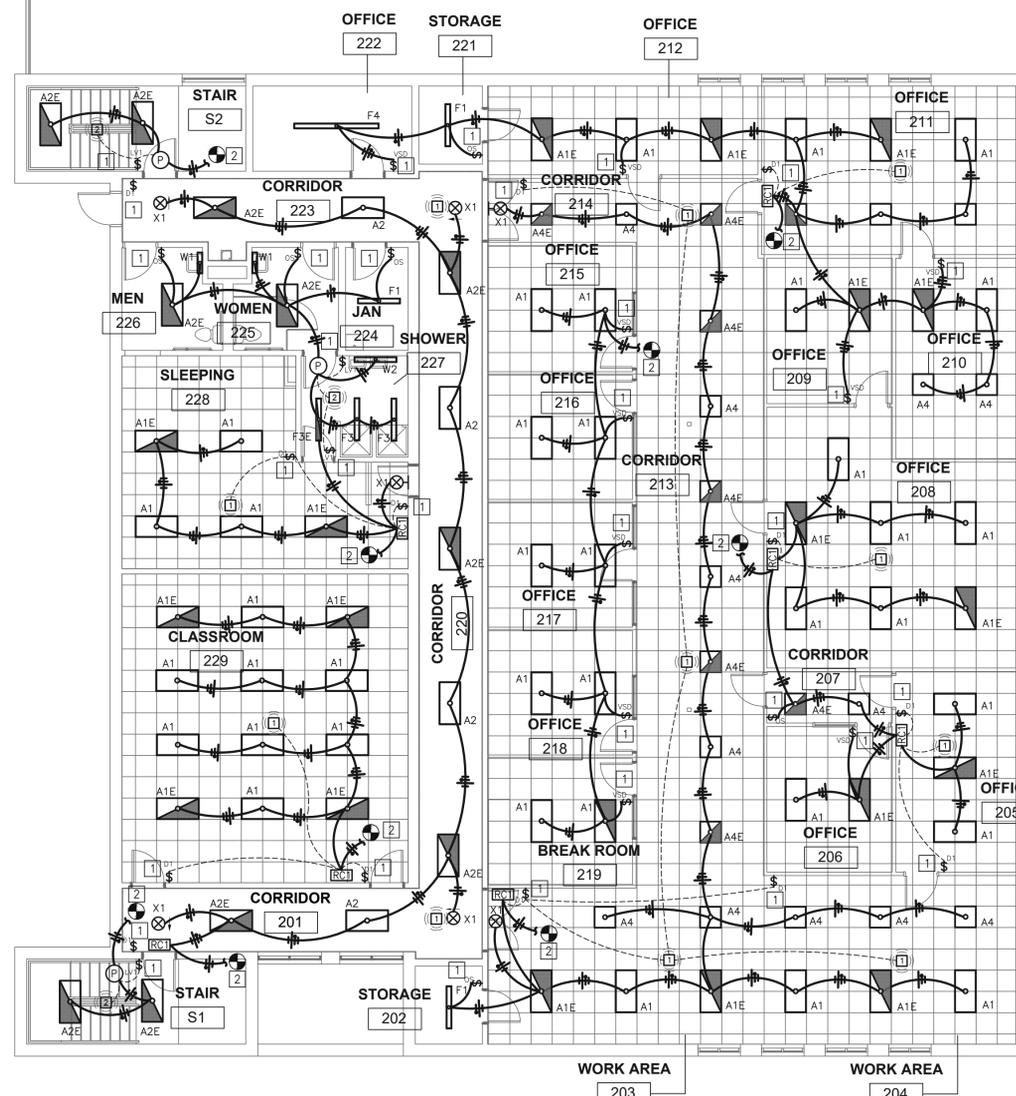
CAD DWG FILE: T1906-001-6264-E-702
DRAWN BY: JRF
CHECKED BY: BW
DESIGNED BY: JRF

SHEET TITLE:
SECOND FLOOR
ELECTRICAL
LIGHTING
PLAN

SHEET NUMBER:

E-702

ALL EXISTING LIGHTING BRANCH CIRCUITS
ARE DECREASING IN LOAD DUE TO NEW
LOWER WATTAGE LIGHT FIXTURES.



1 SECOND FLOOR ELECTRICAL LIGHTING PLAN
SCALE: 1/8"=1'-0"

ELECTRICAL PLAN NOTES:

- LOCATE NEW LIGHT SWITCH AT LOCATION OF DEMOLISHED SWITCH IF POSSIBLE. PROVIDE COVER PLATE FOR ALL ADDITIONAL DEMOLISHED DEVICES NOT UTILIZED IN NEW DESIGN.
- CONNECT TO EXISTING CIRCUITRY PREVIOUSLY SERVING AREA LIGHTING. PROVIDE CONSTANT HOT FOR EMERGENCY EXIT AND LOCALLY CONTROLLED LIGHT FIXTURES.