

FINISH SCHEDULE

FINISH	DESCRIPTION
FLOOR FINISHES	
VT	VINYL COMPOSITE TILE 12" x 12" x 1/8" ARMSTRONG, EXCELON (OR APPROVED EQUAL). COLOR TO BE SELECTED BY OWNER. REMOVE EXIST. FLOOR FINISH AND PREP FLOOR PER MANUF. INSTRUCTIONS PRIOR TO INSTALLATION OF NEW FLOORING (V.I.F.).
EP	EPoxy FLOOR PAINT, VERIFY MANUF. WITH OWNER AND VERIFY PER MANUF. INSTRUCTIONS.
CT	CERAMIC FLOOR TILE TO BE INSTALLED AFTER REMOVAL OF EXISTING FLOORING. PREP FLOOR FOR NEW TILE PER MANUF. INSTRUCTIONS. VERIFY SIZE, STYLE, AND MANUF. OF NEW TILE WITH OWNER AND INSTALL PER MANUF. INSTRUCTIONS.
BASE FINISHES	
VB	VINYL BASE LAMINATE (OR APPROVED EQUAL) 4" HIGH VINYL COVE, 1/8" THICK ROLL INSTALLATION. COLOR TO BE SELECTED BY OWNER.
CT	CERAMIC TILE BASE TO MATCH FLOOR.
NA	NO BASE OR INCLUDED WITH OR SEALED PER METAL PANEL MANUF. SPECS. (V.I.F.)
WALL FINISHES	
FF	FACTORY PAINTED METAL WALL PANELS, VERIFY COLOR WITH OWNER.
GB	PAINTED GYPSUM BOARD (VERIFY FINISH OF EXISTING WALLS WITHIN SPACE AND REPAIR AS NEEDED OR AT THE DIRECTION OF THE OWNER. (V.I.F.) REFER TO PLAN NOTES FOR ADDITIONAL REQUIREMENTS.
FG	FIBERGLASS REINFORCED PLASTIC PANELING APPLIED PER MANUF. INSTRUCTIONS OVER EXIST. GYP. BD. TO 4" ABOVE FINISHED FLOOR.
PA	REPAINT EXISTING WALLS AS NEEDED OR AT THE DIRECTION OF OWNER. VERIFY EXISTING CONDITIONS OF EXISTING WALLS IN THE FIELD.
CEILING FINISHES	
AT	SUSPENDED ACOUSTIC CEILING TILE SYSTEM. ARMSTRONG WHITE FINE FIGURED 2'x2' TILES. EXISTING CEILING TILES TO BE REMOVED FROM EXISTING SPACES. REUSE EXISTING T.G.R.D., REPAIR OR REPLACE G.R.D. AS REQUIRED. ADD / MODIFY T.G.R.D. IN SPACES BEING MODIFIED TO MATCH EXISTING. (V.I.F.) (TYP.)
XP	EXPOSED TO STRUCTURE ABOVE. PAINT UNDERSIDE OF METAL DECK. ALL EXPOSED METAL STRUCTURE AND ALL MEP EQUIPMENT, PIPING, CONDUIT ETC. WITH A RUST INHIBITING PAINT. BENJAMIN MOORE SUPER SPEC OTM ALKYL SEMI-GLOSS (PAINT WHITE (OR APPROVED EQUAL) (VERIFY WITH OWNER)).
GB	EXISTING GYPSUM BOARD CEILING. REPAIR WITH SCRUBBLE SEMI-GLOSS WHITE CEILING PAINT AS REQUIRED (VERIFY IN FIELD AND WITH OWNER).
BASE FINISH (X)	FLOOR FINISH (X)
WALL FINISH (Y)	CEILING FINISH (X)
ROOM FINISH PLAN TAG	

REVISIONS

NO.	DATE	DESCRIPTION
1	2024.12.12	ISSUED FOR REVIEW

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ARCHITECT

JOB NO.	PAP	APPROVED:

A NEW CULTIVATION FACILITY FOR CRAFT CROW
 740 SCHNEIDER DR.
 SOUTH ELGIN, IL 60177

FIRST FLOOR PLAN

1/8" = 1'-0"

WALL LEGEND

	EXISTING METAL BUILDING EXTERIOR WALLS (VERIFY EXISTING CONDITIONS IN FIELD AND REPAIR / REFRESH AS DETERMINED NECESSARY BY THE OWNER)
	EXISTING PARTITION (VERIFY EXISTING CONDITIONS IN FIELD AND REPAIR / REFRESH AS DETERMINED NECESSARY BY THE OWNER)
	NEW 1.6 LB. METAL WALL STUD PARTITION WITH 5/8" GYP. BD. ON BOTH SIDES (U.I.O.)
	NEW 3" INSULATED METAL WALL PANEL PARTITION

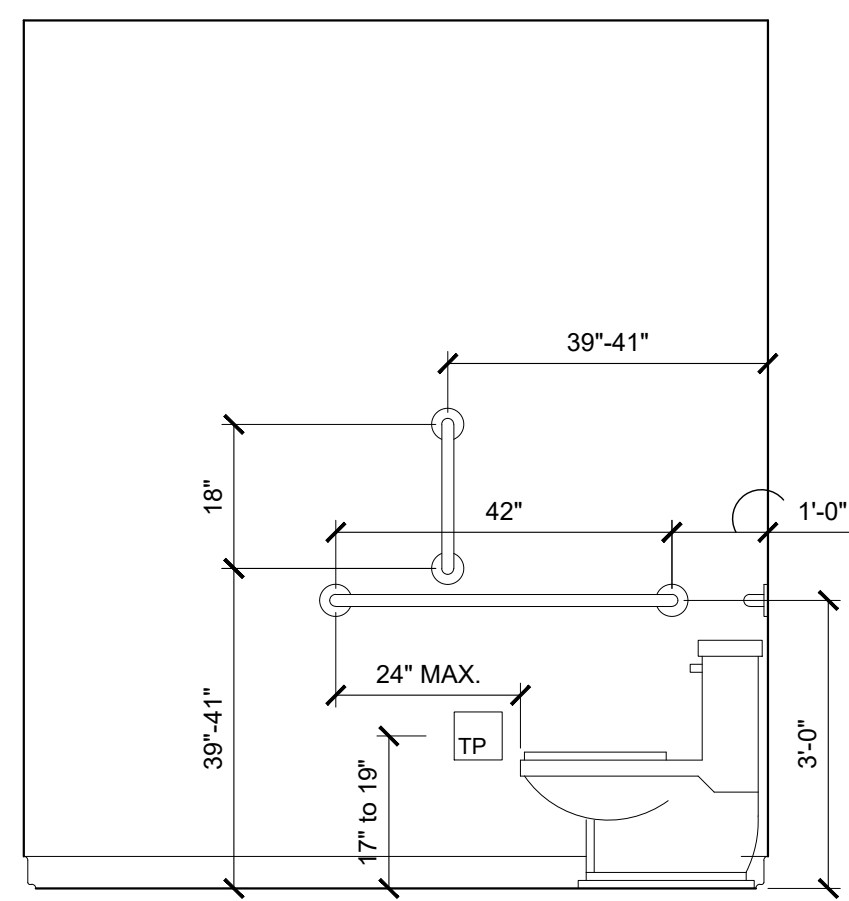
NOTE: REFER TO WALL TYPE SECTION DETAILS FOR ADDITIONAL INFORMATION ABOUT WALL CONSTRUCTION.

- ### FLOOR PLAN KEY NOTES:
- SECURITY OFFICE WINDOW WITH PASS THRU, SEE SECTION 5A-2 AND ELEVATION 6A-2 FOR MORE DETAILS, AND VERIFY WITH OWNER. PROVIDE A MIN. 30" WIDE x 48" DEEP CLEAR FLOOR SPACE IN FRONT OF WINDOW FOR A.D.A. ACCESSIBILITY.
 - VERIFY LOCKER TYPE AND ARRANGEMENT. LOCKER ROOMS ARE TO PROVIDE ADA ACCESSIBLE ROUTE TO ACCESSIBLE LOCKERS. 5% OR AT LEAST ONE ACCESSIBLE LOCKER SHALL BE PROVIDED WITH CLEAR FLOOR SPACE OF 30"X48" ADJACENT TO LOCKER AND ACCESS TO A 17" x 17" HIGH SEAT. PROVIDE SHOP DRAWINGS FOR APPROVAL.
 - DIMENSIONS SHOWN AND DASHED LINES AT DOOR ARE THE ADA REQUIRED MINIMUM FLOOR SPACE MANEUVERING CLEARANCES TYPICAL AT FRONT APPROACH / FULL SIZE DOORS. REFER TO ADA GUIDELINES FOR ADDITIONAL DOOR CLEARANCE REQUIREMENTS.
 - NEW BREAKROOM COUNTER TO MEET A.D.A. CODE COMPLIANCE. SEE ELEVATION 2A-2 AND DET. 3A-2.
 - EXISTING COLUMN (TYP.). VERIFY LOCATIONS AND COORDINATE WITH THE BACK SYSTEMS AND NEW WALL PANEL LAYOUT. (V.I.F.)
 - EXISTING RESTROOMS TO BE RENOVATED PER PLAN, VERIFY A.D.A. COMPLIANCE WITH TOILET ROOM ELEVATIONS ON SHEET A-2. MODIFY OR ADD PROVISIONS AS REQUIRED TO COMPLY (V.I.F.). REFER TO THE LATEST A.D.A. CODE FOR FLOOR CLEARANCE REQUIREMENTS FOR ACCESS TO TOILET AND LAVATORIES, VERIFY EXISTING CONDITIONS AND UPGRADE AS REQUIRED.
 - ADA ACCESSIBLE HI-LO DRINKING FOUNTAINS, SEE DETAIL 4A-2 FOR ADA HEIGHT REQUIREMENTS. AND PROVIDE A MIN. 30" X 48" CLEAR FLOOR SPACE IN FRONT OF ACCESSIBLE FOUNTAIN. (VERIFY LOCATION WITH EXISTING CONDITIONS)
 - ADD NEW FRAMED WALL ADJACENT TO THE EXISTING FRAME WALL AND EXTEND TO THE UNDERSIDE OF THE ROOF DECK. PROVIDE TOP CHANNEL WITH SLP CONNECTION TO ALLOW FOR ROOF DEFLECTION - 1/8" @ 5' STUDS @ 16" O.C. W/ 2" GYP. BD.
 - VERIFY EXISTING CONDITIONS AND PROVIDE GYP. BD. BULKHEAD AS REQUIRED TO TRANSITION FROM ACOUSTIC CEILING TILE TO EXPOSED CEILING. (V.I.F.)
 - VERIFY EXISTING DOOR HARDWARE COMPLIES WITH THE DOOR NOTES ON SHEET A-2. VERIFY IF ANY OF THE EXISTING DOORS WILL REQUIRE CHED READERS AND ELECTRIC STRIKES AS REQUIRED. (VERIFY IN FIELD WITH OWNER)
 - EXISTING DOOR CLEARANCE ON THE LATCH SIDE UPON APPROACH DOES NOT MEET ADA CLEARANCE REQUIREMENTS. DOOR SWING CAN BE PUPPED TO SWING INTO THE BREAKROOM TO COMPLY. NO CLOSER CAN BE INSTALLED. LATCH SIDE CLEARANCE IS LESS THAN 12" (V.I.F.). SEE ADA DOOR CLEARANCE REQUIREMENTS ON SHEET A-2.

- ### GENERAL PLAN NOTES:
- VERIFY ALL EXTERIOR BUILDING DIMENSIONS AND COLUMN LOCATION ON SITE PRIOR TO CONSTRUCTION AND COORDINATE WITH NEW WALL LOCATIONS. NOTIFY ARCHITECTS OF ANY DISCREPANCIES THAT MAY AFFECT EGRESS OR ADA CLEARANCE REQUIREMENTS. (V.I.F.)
 - INTERIOR DIMENSIONS OF NEW WALLS ARE FROM THE FACE OF METAL PANELS OR FACE OF GYP. BD.
 - ALL WALL FINISHES AND CEILING FINISHES TO MEET CLASS I FLAME SPREAD RATINGS. ALL FLOOR COVERINGS NOT TO EXCEED 75 (MMA).
- FE** WALL MOUNTED FIRE EXTINGUISHER WITH 2A 10BC FIRE EXTINGUISHER PER 201 @ 10' C. SECTION 906 AND NFPA 10. MOUNT MAX. 5'-0" AFF WITH CLEARANCE. 75" MAXIMUM TRAVEL DISTANCE TO F.E. (COORDINATE LOCATIONS WITH LOCAL FIRE MARSHALL)
- CT** VERIFY LOCATIONS FOR CARD READERS AT NEW AND EXISTING DOORS. GENERAL CONTRACTOR TO PROVIDE WIRING TO ELECTRIC STRIKES PER MANUF. SPECS. THE SECURITY OR HARDWARE INSTALLER SHALL SPECIFY READER MANUF. TO COORDINATE WITH DOORS AND HARDWARE, AND INSTALL READERS PER MANUF. INSTALLATION INSTRUCTIONS UPON APPROVAL OF OWNER.

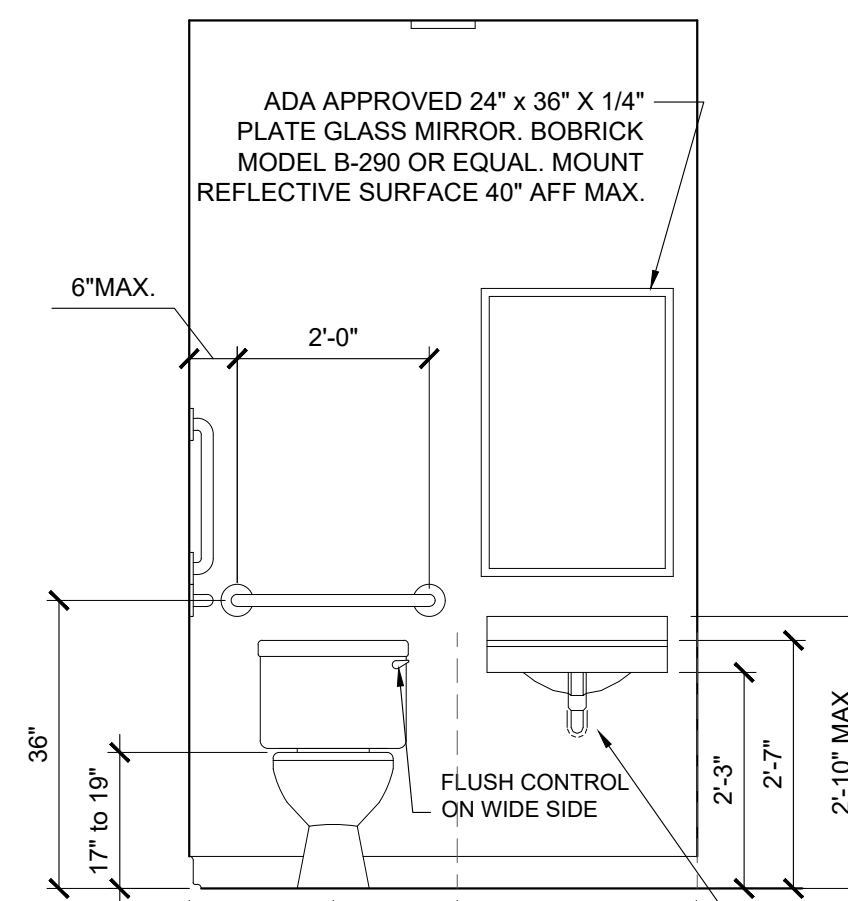
SIGNAGE LEGEND

	TACTILE DOT SIGN WITH RAISED LETTERS AND BRILLE ARE TO BE MOUNTED ON THE LATCH SIDE OF DOOR OR ON THE INTRINSIC LEAF OF A DOUBLE DOOR. TYPICAL AT ALL DOORS ON THE EGRESS ROUTE OR EXITING THE BUILDING. RAISED LETTERS SHALL BE 48 INCHES MINIMUM AND 60 INCHES MAXIMUM ABOVE THE FLOOR. REFER TO SEC. 703.3 OF THE ASIA 117.1 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES FOR ADDITIONAL SIGN REQUIREMENTS.
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RESTROOM ELEVATION

1/2" = 1'-0"



RESTROOM ELEVATION

1/2" = 1'-0"

INTERIOR ELEVATIONS SHOWN ARE FOR REFERENCE ONLY AND DO NOT REPRESENT THE ACTUAL PROPOSED CONSTRUCTION. USE FOR ADA DIMENSIONAL REQUIREMENTS ONLY. REFER TO ADA GUIDELINES FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

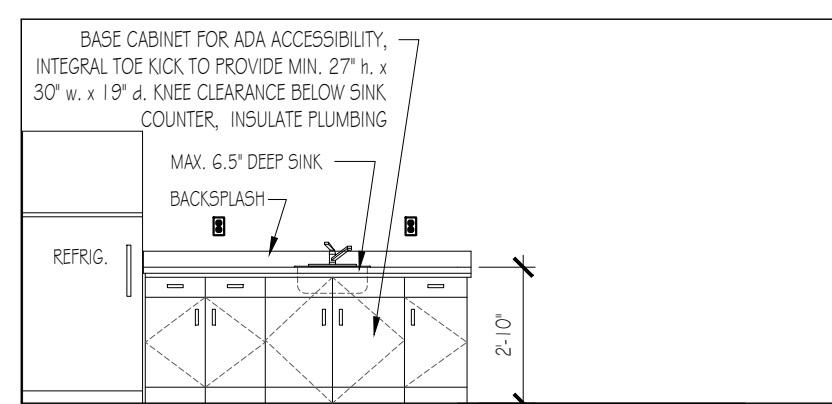
TOILET ROOM NOTES:

ALL GRAB BAR ASSEMBLIES TO BE 1 1/2" DIA. STAINLESS STEEL AND RESIST A HORIZONTAL THRUST OF 50 P.L.F. APPLIED AT THE TOP OF THE RAILING OR A 250 POUND LOAD APPLIED IN ANY DIRECTION - WHICHEVER IS THE MOST RESTRICTIVE FOR EACH AND EVERY CONDITION.

TOILET PAPER DISPENSER: BOBRICK MODEL B-6857 OR EQUAL.

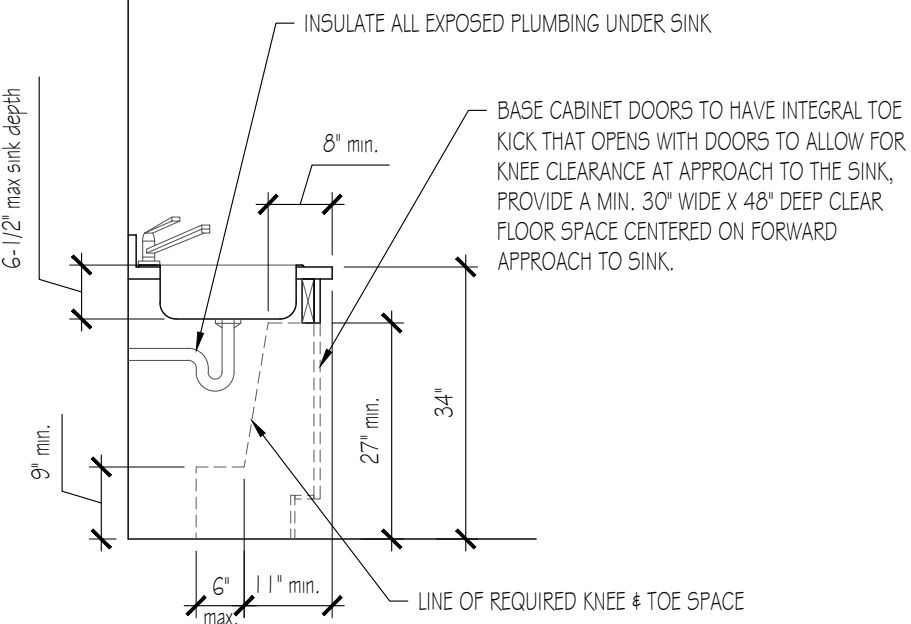
PROVIDE BACKUP SUPPORTS FOR ALL WALL-HUNG LAVATORIES, GRAB BARS AND ALL OTHER WALL-HUNG ACCESSORIES AS REQUIRED PER MANUF. CUT SHEETS

ALL CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH THE USE OF ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF WRIST. THE FORCE REQUIRED TO OPERATE CONTROLS SHALL NOT EXCEED 5 LBS. OF FORCE.



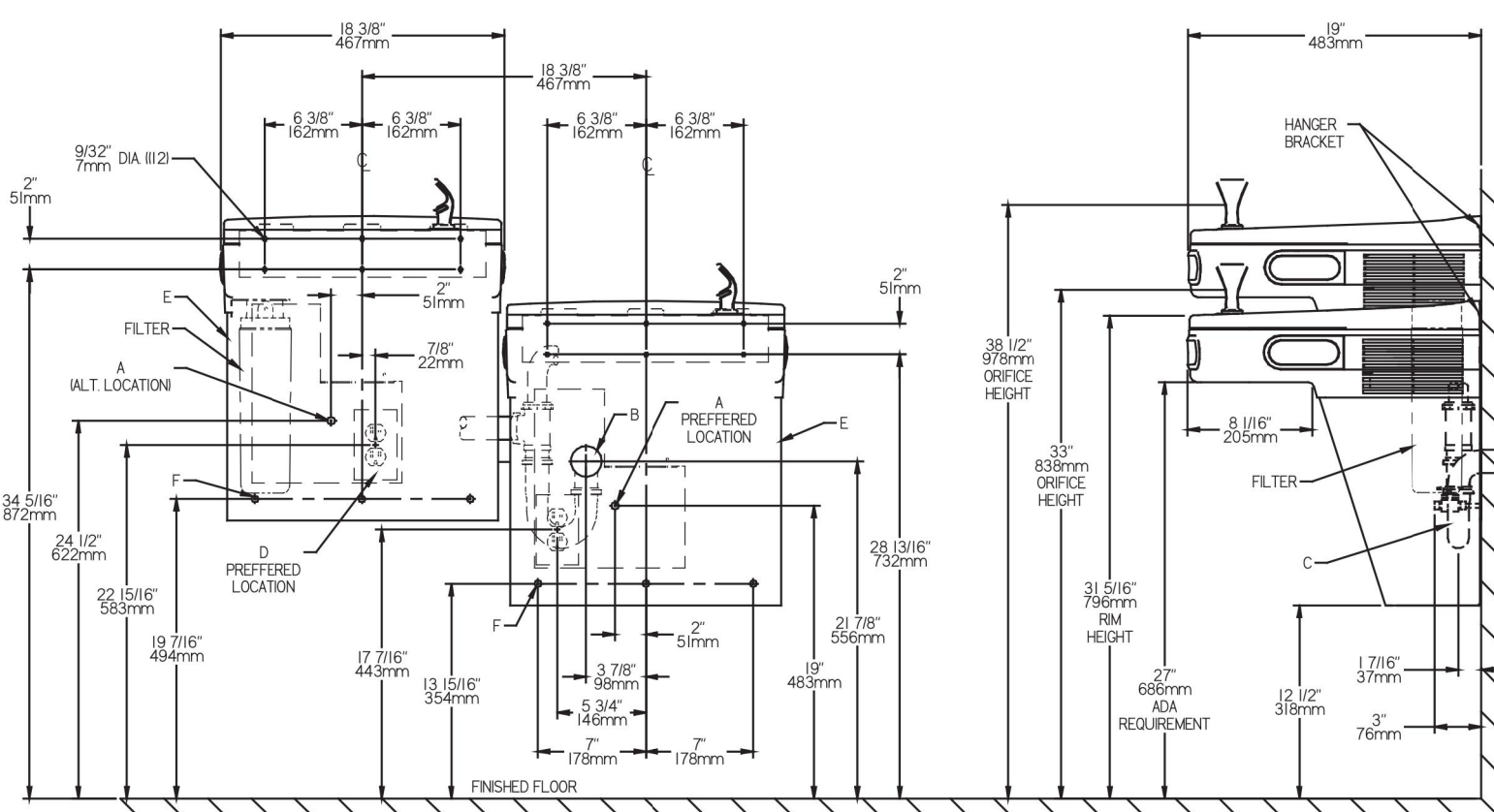
BREAK ROOM COUNTER ELEV.

1/2" = 1'-0"



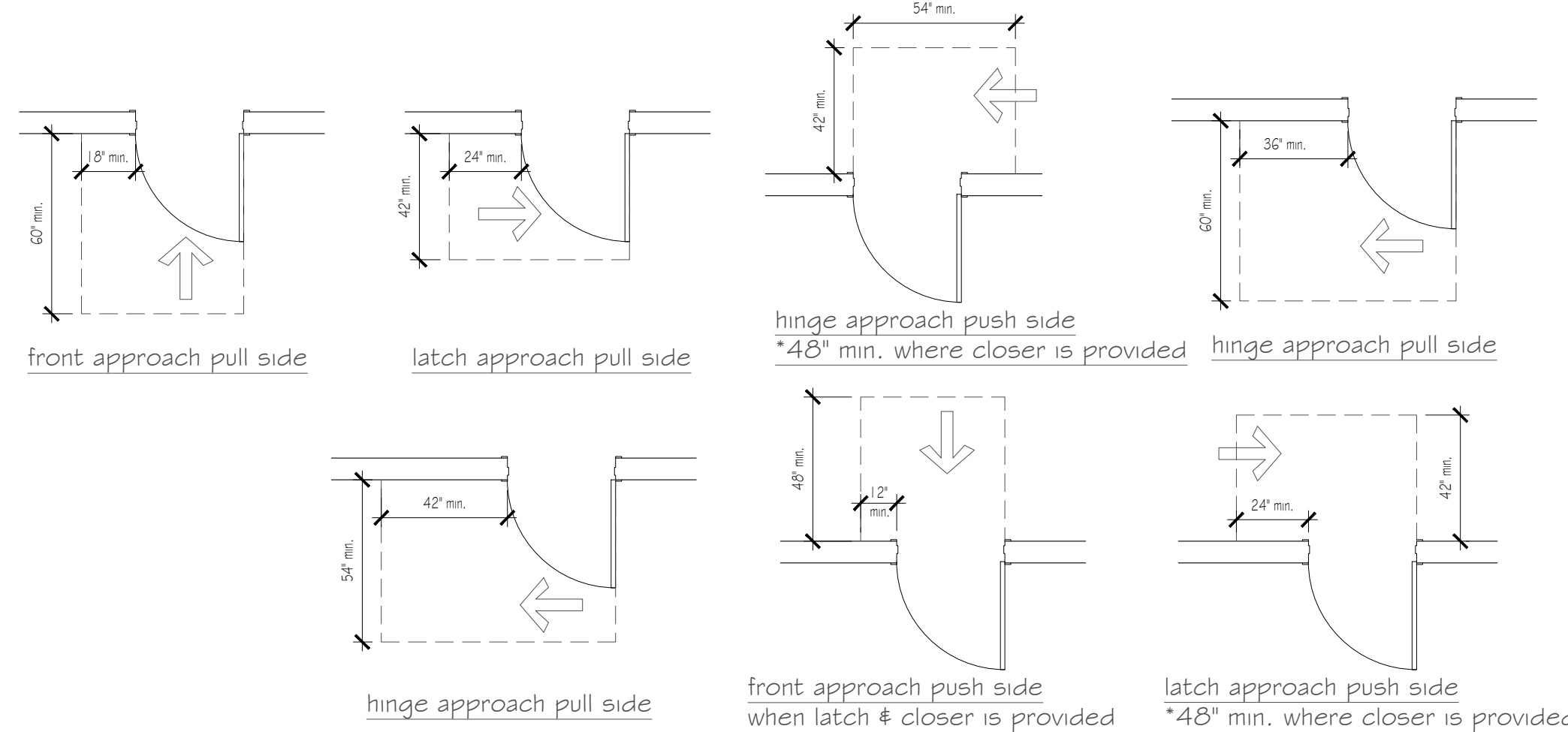
ADA ACCESSIBLE SINK COUNTER

1/2" = 1'-0"



HI / LO DRINKING FOUNTAIN ELEVATIONS

N.T.S.



A.D.A. DOOR CLEARANCE REQUIREMENTS

NUMBER	TYPE	MATL	SIZE	THICK	FINISH	HARDWARE	FRAME TYPE	FRAME MATL	FRAME FINISH	JAMB DET.	HAND	REMARKS	
01	D-1	H.M.	3'-0" x 7'-0"	1 3/4"	PT	EN	F-1	K.D.H.M.	PT	V.I.F.	RH	MECHANICAL CORRIDOR - 101 / INSULATED	
02	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	RH	FLOWER ROOM #5 - 102	
03	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	LH	FLOWER ROOM #5 - 102	
04	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	RH	FLOWER ROOM #1 - 110	
05	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	LH	FLOWER ROOM #1 - 110	
06	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	LH	FLOWER ROOM #2 - 109	
07	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	RH	FLOWER ROOM #2 - 109	
08	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	RH	FLOWER ROOM #6 - 103	
09	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	LH	FLOWER ROOM #6 - 103	
10	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	RH	FLOWER ROOM #7 - 104	
11	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	LH	FLOWER ROOM #7 - 104	
12	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	LH	FLOWER ROOM #3 - 108	
13	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	RH	FLOWER ROOM #3 - 108	
14	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	LH	FLOWER ROOM #4 - 107	
15	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	RH	FLOWER ROOM #4 - 107	
16	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	RH	FLOWER ROOM #8 - 105	
17	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	LH	FLOWER ROOM #8 - 105	
18	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	V.I.F.	RH	CORRIDOR - 124
19	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	RH	VEGETATION #5 - 135	
20	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-2	RH	MECHANICAL - 134	
21	D-1	H.M.	3'-0" x 7'-0"	1 3/4"	PT	EN	F-1	K.D.H.M.	PT	J-2	RH	CORRIDOR - 124	
22	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	RH	VEGETATION #4 - 132	
23	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-2	RH	EXTRACTION - 131	
24	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-2	RH	VEGETATION #3 - 130	
25	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-2	LH	CURE - 129	
26	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	RH	VEGETATION #2 - 128	
27	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	RH	VEGETATION #1 - 127	
28	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-2	LH	VAULT - 126	
29	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	LH	NUG POPPING - 123	
30	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-2	RH	DELIVERY / LOADING - 125	
31	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	RH	DRY ROOM - 122	
32	D-3	H.M.	(2)3'-0" x 7'-0"	1 3/4"	PT	DL	F-3	K.D.H.M.	PT	J-1	LH / RH	NEW HARVEST - 117	
33	D-3	H.M.	(2)3'-0" x 7'-0"	1 3/4"	PT	DL	F-3	K.D.H.M.	PT	J-1	LH / RH	CANNABIS WASTE - 119	
34	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	LH	QUARANTINE - 118	
35	D-3	H.M.	(2)3'-0" x 7'-0"	1 3/4"	PT	DL	F-3	K.D.H.M.	PT	J-1	LH / RH	MECHANICAL - 116	
36	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	LH	CORRIDOR - 112	
37	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	LH	CLONE - 113	
38	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	RH	CLONE - 113	
39	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	LH	MOTHER - 114	
40	D-2	H.M.	3'-6" x 7'-0"	1 3/4"	PT	GZ	F-2	K.D.H.M.	PT	J-1	RH	FERTIGATION - 115	
41	D-4	INSUL. STL.	10'-0" x 10'-0"	2"	PT	OH	F-4	H.M.	FF	V.I.F.	OH	FERTIGATION - 115	
42	D-1	H.M.	3'-0" x 7'-0"	1 3/4"	PT	EN	F-1	K.D.H.M.	PT	J-2	RH	RECORDS - 143	
43	D-1	H.M.	3'-0" x 7'-0"	1 3/4"	PT	TO	F-1	K.D.H.M.	PT	J-2	LH	MEN'S LOCKER - 144	
44	D-1	H.M.	3'-0" x 7'-0"	1 3/4"	PT	TO	F-1	K.D.H.M.	PT	J-2	RH	EXIST. MEN'S - 137	
45	D-1	H.M.	3'-0" x 7'-0"	1 3/4"	PT	PS	F-1	K.D.H.M.	PT	J-2	RH	EXIST. BREAKROOM - 149 (CHANGE DOOR SWING FOR ADA)	

ABBREVIATIONS: K.D.H.M. - KNOCK DOWN HOLLOW METAL; PT - PAINTED; H.M. - HOLLOW METAL; LH - LEFT HAND SWING; RH - RIGHT HAND SWING; INSUL. STL. - INSULATED STEEL (MIN. R-6)

DOOR HARDWARE TYPES: EN - ALL DOORS LABELED AS EX. ARE EXISTING TO REMAIN (V.I.F.). VERIFY CONDITION OF EXISTING DOOR FINISHES AND REPAIR AND/OR REFINISH AS REQUIRED (V.I.F.). COORDINATE MATCHING OF NEW INTERIOR DOOR HARDWARE TO EXISTING KEYED LOCK SETS PER DIRECTION OF THE OWNER. EXISTING HARDWARE SHALL ALWAYS ALLOW FOR EGRESS (TYP.). COORDINATE MODIFICATIONS OF EXISTING DOORS FOR ELECTRIC STRIKES AND CARD READERS WITH OWNER (V.I.F.).

DL - DOUBLE DOOR - ACTIVE LEAF - SCHLAGE NO SERIES (or approved equal) LEVER LOCKSET, NRP HINGES, VERIFY NRP HINGES. VERIFY CARD READER AND POWER SUPPLY FOR ELECTRIC STRIKE THROUGH INACTIVE DOOR LEAF. DROP SEAL, CLOSER AND ASTRAHAL. INACTIVE LEAF: HEAVY DUTY SURFACE MOUNTED FLUSH-BOLT.

EN - DOUBLE DOOR - ACTIVE LEAF - SCHLAGE NO SERIES (or approved equal) LEVER LOCKSET, NRP HINGES, AUTOMATIC DOOR CLOSER, ELECTRIC STRIKE, CARD READER, VERIFY DOORS THAT MAY REQUIRE WEATHER STRIPPING, DRAFT STOPS, SWEEP, OR WALL STOP WITH THE OWNER.

TO - SCHLAGE TOILET ROOM PUSH/PULL CLOSER, BUTT HINGES, WALL STOP WHERE REQUIRED

PS - SCHLAGE NO SERIES (or approved equal) PRIVATE LEVER LOCKSET, BUTT HINGES, WALL STOP

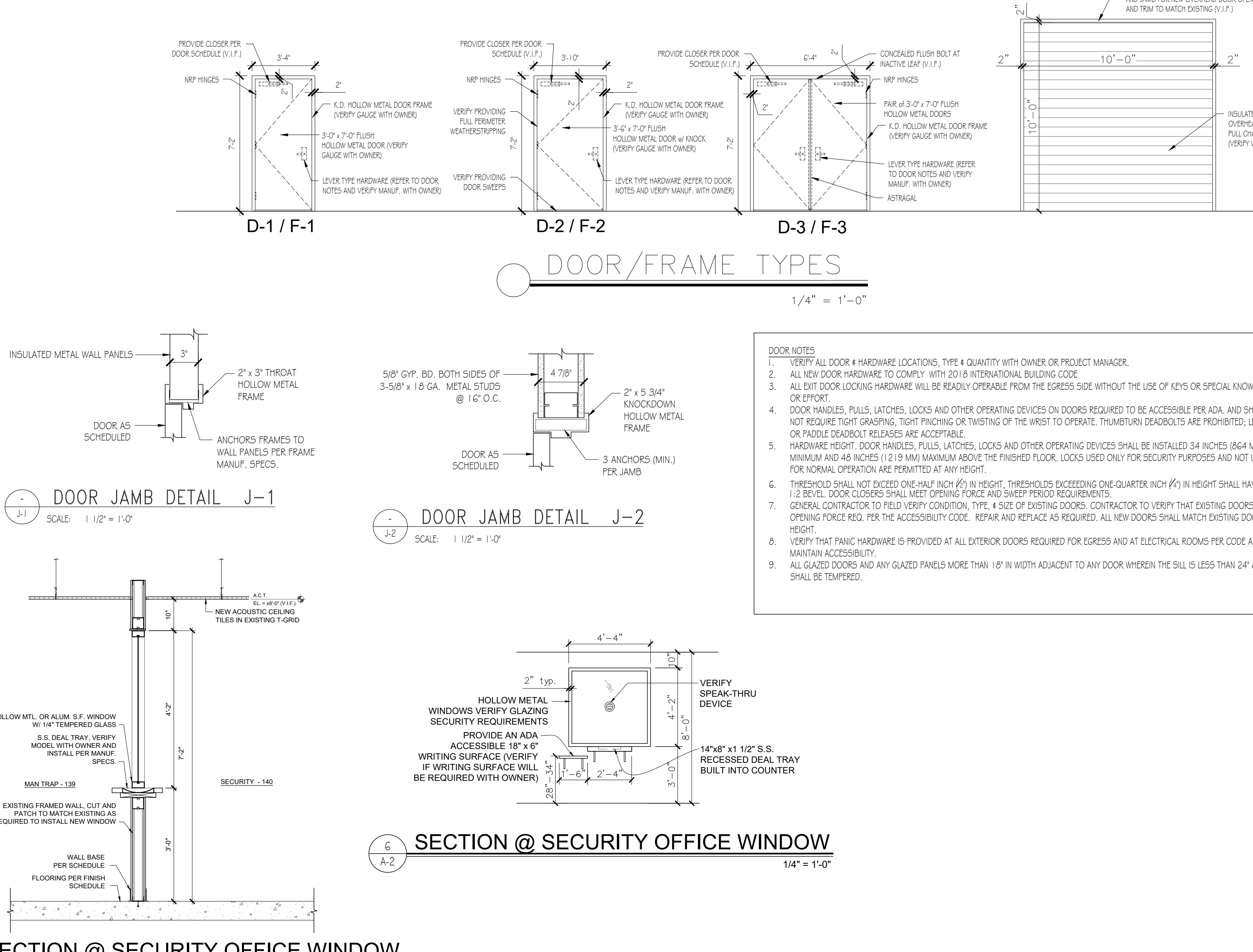
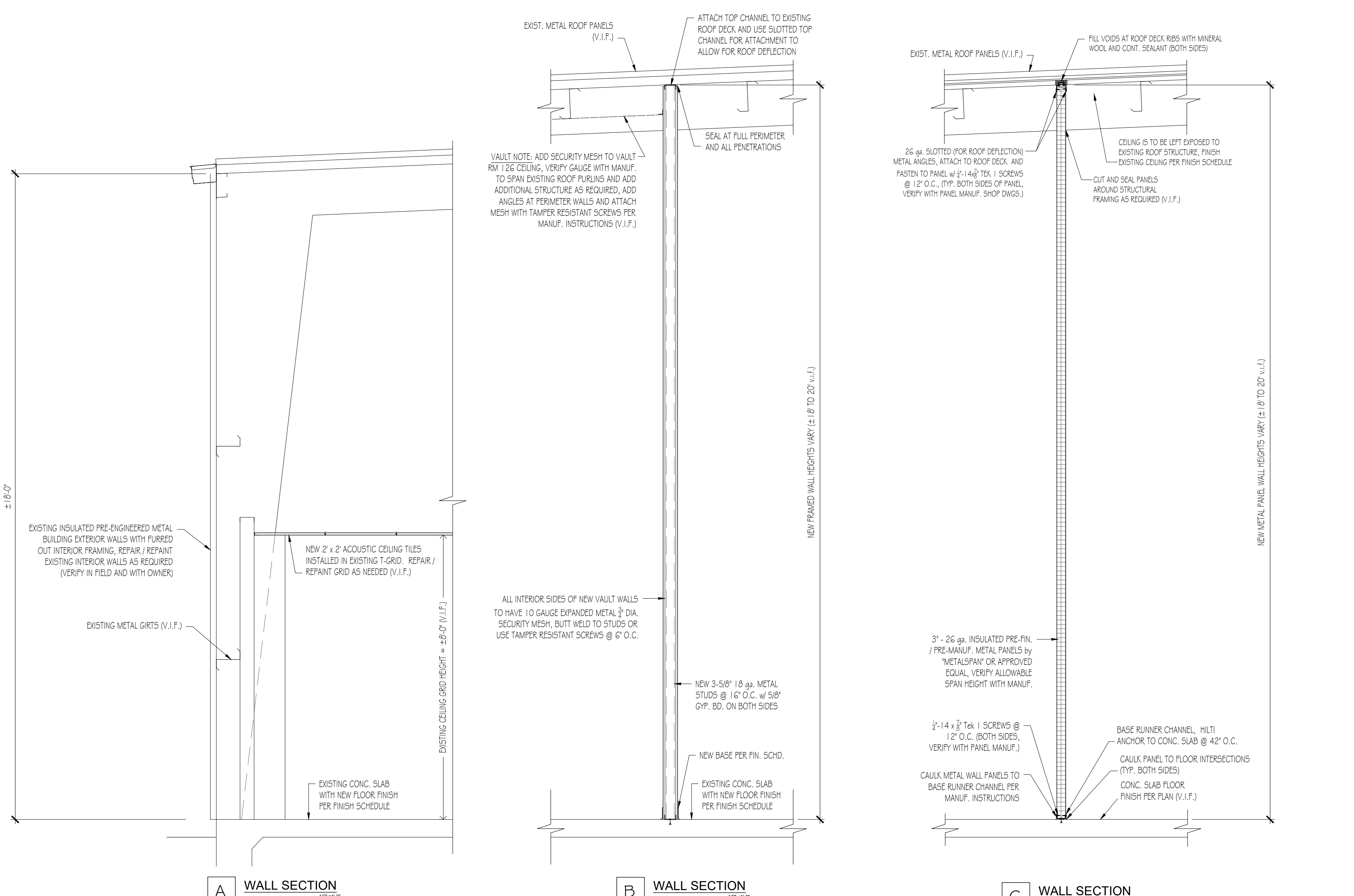
PA - SCHLAGE NO SERIES (or approved equal) PASSAGE LEVER LOCKSET, BUTT HINGES, WALL STOP

OH - OVERHEAD STOP WITH MANUAL PULL CHAIN OPERATOR, LOCKING MECHANISM OPERATING FROM INSIDE (ONLY VERIFY WITH OWNER)

GZ - SCHLAGE NO SERIES (or approved equal) STORE ROOM LEVER LOCKSET, STAINLESS NRP HINGES, NOCK PLATES, ELECTRIC STRIKE W/ CARD READER, DROP SEAL, AND GROW ZONE CLOSER. PROVIDE DOOR JAMB & HEAD SEALS. VERIFY HARDWARE WITH OWNER (V.I.F.)

DL - DOUBLE DOOR WITH PAMIC - PUSH BAR HARDWARE ON ACTIVE LEAF. FLUSH BOLT ON INACTIVE LEAF. VERIFY IF CARD READER WITH ELECTRIC STRIKE IS REQUIRED BY OWNER.

GENERAL HARDWARE NOTES: 1. ALL DOORS SHALL BE EQUIPPED WITH PROVISIONS FOR ELECTRIC STRIKES, ELECTRICAL FEED CARD READER, (VERIFY NEED FOR CAMERA OUTLET), COORDINATE SECURITY REQUIREMENTS WITH OWNER. NOTE THAT A CARD READER IS TO BE INSTALLED. DOOR OPERATING HARDWARE SHALL BE A STOREFRONT LOOK ALLOWING FOR EGRESS AT ALL TIMES AND A CLOSER SHALL BE ADDED TO DOOR (TYP.). 2. IF ANY DOORS ARE TO BE LOCKED ALONG THE EGRESS ROUTE, THEY MUST BE ELECTRONICALLY CONNECTED TO THE FIRE PROTECTION SYSTEM SO IN THE EVENT OF AN ALARM THEY ARE AUTOMATICALLY RELEASED. REFER TO 1015.1.9 OF THE 2018 IBC FOR ADDITIONAL CODE REQUIREMENTS. 3. VERIFY ALL DOOR SWING DIRECTIONS BETWEEN PLAN AND DOOR SCHEDULE.



REVISIONS

NO.	DATE	DESCRIPTION
1	12-15-22	ISSUED FOR REVIEW

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DOOR SCHEDULE / DOOR TYPES / MISC. DETAILS

A NEW CULTIVATION FACILITY FOR CRAF CROW
740 SCHNEIDER DR.
SOUTH ELGIN, IL 60177

JOB NO. _____
DRAWN BY: PJP
CHECKED BY: PJP
APPROVED: PJP

SHEET NO. A-2
SHEET 2 OF 3

GENERAL NOTES:

PRIOR TO SUBMITTING BID, CONTRACTOR SHALL VISIT THE SITE TO EXAMINE THE EXISTING CONDITIONS. ANY DISCREPANCIES ARE TO BE POINTED OUT PRIOR TO SUBMITTING BID OR SHALL BE NOTED IN THE BID FORMS. NO PLEA OF IGNORANCE OF EXISTING CONDITIONS SHALL JUSTIFY REQUESTS FOR ADDITIONAL FUNDS. COMMENCEMENT OF WORK SHALL CONSTITUTE ACCEPTANCE OF EXISTING CONDITIONS.

PLANS AND SPECIFICATIONS ARE INTENDED TO BE COMPLIMENTARY. ANY WORK EXHIBED IN EITHER OF THEM WHETHER IN THE OTHER OR NOT, IS TO BE EXECUTED ACCORDING TO THE TRUE INTENT AND MEANING THEREOF THE SAME AS IF SET FORTH IN ALL. PROVIDED, HOWEVER, THAT SHOULD ANY LAW, ORDINANCE, OR REGULATION OF STATE, OR COUNTY, OR CITY, IN WHICH THE WORK IS TO BE DONE, BE IN VIOLATION OF THE REQUIREMENTS OF ANY SUCH LAW OR ORDINANCES, OR REGULATION, THEN THE REQUIREMENT OF SUCH LAWS, ORDINANCES, OR REGULATIONS SHALL PREVAIL AND SHALL BE COMPLIED WITH BY CONTRACTOR AS A PART OF HAS WORK CALLED FOR AND NO EXTRA COMPENSATION SHALL BE ALLOWED THEREFORE.

ALL CONTRACTORS SHALL VISIT AND CAREFULLY EXAMINE SITE OF PROPOSED WORK AND ACQUAINT THEMSELVES WITH THE CONDITIONS UNDER WHICH WORK WILL BE PERFORMED AND NATURE AND EXTENT OR WORK INVOLVED.

BEFORE COMMENCEMENT OF WORK THE GENERAL CONTRACTOR AND REQUIRED SUBCONTRACTORS SHALL VERIFY DIMENSIONS AND CONDITIONS SHOWN IN THE CONTRACT DOCUMENTS, ANY DEVIATIONS, DISCREPANCIES AND/OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

THE GENERAL CONTRACTOR SHALL MEET WITH THE BUILDING OWNER TO VERIFY AND REVIEW HIS REGULATIONS AND BUILDING PROCEDURES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING ELEVATOR USE FOR DELIVERY OF MATERIALS WITH THE LANDLORD AND SHALL INCLUDE ANY FEE FOR THE OPERATION OF SAME IN HIS BID. THE INSTALLATION OF TEMPORARY BARRICADES IN PUBLIC AREAS OR ON THE EXTERIOR OF THE BUILDING MUST MEET WITH THE OWNER'S APPROVAL.

SUBSTITUTIONS OF MATERIALS OR EQUIPMENT WHERE SPECIFIED HEREIN OR ON DRAWINGS ARE NOT ACCEPTABLE UNLESS WRITTEN APPROVAL HAS BEEN OBTAINED FROM THE ARCHITECTS AND/OR OWNERS AGENT.

ALL MATERIALS, METHODS OF INSTALLATION, AND FINISHING OF CONSTRUCTION SYSTEMS (PARTITIONS, CEILING, DOORS, FRAMES, FLOORS, ETC.) SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR THE EXPECTED BUILDING SYSTEMS.

ALL DOORS USED IN CONNECTION WITH EXITS, SHALL BE SO ARRANGED AS TO BE READILY OPENED WITHOUT THE USE OF A KEY, FROM THE SIDE FROM WHICH EGRESS IS MADE.

ALL WALL FINISHES AND CEILING TILE FINISHES TO MEET CLASS 1 FLAME SPREAD RATINGS. ALL FLOOR COVERINGS NOT TO EXCEED 75 (MAX).

CONTRACTOR AND HIS SUBCONTRACTORS SHALL TURN THE PROJECT OVER TO OWNER: FREE FROM ALL CONSTRUCTION DEBRIS: MATERIAL AND EQUIPMENT. ALL INTERIOR GLASS FREE FROM LABELS, AND CLEANED ON BOTH SIDES. ALL MILLWORK AND BUILT-INS FREE OF DIRT, GREASE, AND OTHER FOREIGN MATERIALS. ALL RESILIENT FLOORINGS MOP CLEANED. VINYL WALL COVERINGS FREE OF DIRT AND OTHER FOREIGN MATERIALS.

GENERAL CONTRACTOR IS RESPONSIBLE FOR THE DAILY REMOVAL OF CONSTRUCTION DEBRIS AND SHALL THOROUGHLY CLEAN AND REMOVE ALL DEBRIS UPON COMPLETION OF FINAL WORK INCLUSIVE OF ALL TRADE DESIGNATED HEREIN AS N.I.C.

GENERAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF OTHER CONTRACTORS, WHETHER HIS OWN, OR THOSE ON SEPARATE CONTRACT.

CONTRACTOR SHALL NOTIFY ARCHITECT AND/OR LANDLORD OF ANY UNFORESEEN JOB CONDITIONS WHICH MIGHT AFFECT PROJECT COSTS. EXTRA WORK AND/OR COSTS MUST BE APPROVED IN WRITING PRIOR TO CONSTRUCTION OF SUCH WORK.

NOTHING IN THESE DRAWINGS SHALL IMPOSE LIABILITY ON THE ARCHITECT FOR CLAIMS, LAWSUITS, EXPENSE, OR DAMAGES ARISING FROM OR ANY MANNER RELATED TO THE EXPOSURE TO, OR THE HANDLING, MANUFACTURE, OR DISPOSAL OF ASBESTOS, ASBESTOS PRODUCT, OF HAZARDOUS WASTE OR ANY OF ITS VARIOUS FORMS, (IF THEY EXIST) DEFINED BY THE ENVIRONMENTAL PROTECTION AGENCY.

ALL WORK IN THIS CONTRACT SHALL BE GUARANTEED AGAINST ANY DEFECTIVE MATERIALS OF WORKMANSHIP FOR ONE YEAR AFTER DATE OF FINAL COMPLETION. ANY DEFECTIVE MATERIAL OR WORKMANSHIP SHALL BE REPLACED AT NO COST TO THE OWNER.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUB CONTRACT TRADES SUBMISSION OF AS BUILT DRAWINGS UPON COMPLETION OF THE PROJECT.

THE GENERAL CONDITIONS OF THE 'CONTRACT FOR CONSTRUCTION' A.I.A. DOCUMENT A 201, LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS, (APPLY TO THIS WORK AND ARE MADE A PART OF THIS CONTRACT TO THE SAME EXTENT AS IF WRITTEN OUT IN FULL.)

CONSTRUCTION NOTES:

DO NOT SCALE DRAWINGS; DIMENSIONS SHALL GOVERN. LARGE SCALE DETAILS SHALL GOVERN OVER SMALL SCALE DETAILS.

ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH ALL LOCAL ORDINANCES AND BUILDING CODES.

SPECIFIC WALL CONSTRUCTION TYPES ARE INDICATED ON THESE PLANS ONLY. USE CONSTRUCTION PLANS TO VERIFY WALL TYPES FOR CONSTRUCTION. NOTIFY ARCHITECT FOR CLARIFICATION IF WALL TYPE IS UNCLEAR.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROCUREMENT OF ALL REQUIRED BUILDING PERMITS AND THE PAYMENT OF ALL APPLICABLE FEES.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING OF PARTITION WALLS AND DOOR OPENINGS, AS REQUIRED PER ADOPTED CODES AND STRUCTURAL LIMITATIONS OF PARTITION FRAMING.

ALL PARTITION ENDS TO BE FLUSH AND STRAIGHT WITH METAL CORNER BEADS, CEMENT, TAPE, AND SPACKLE DRYWALL PARTITION ENDS.

ALL EXISTING WALLS, COLUMNS, ETC., THAT ARE TO REMAIN SHALL BE PATCHED AND PLASTERED AS REQUIRED TO MAKE THEM STRAIGHT, TRUE, AND FLUSH WITH NEW CONSTRUCTION, AND SUITABLE FOR A GOOD PAINT JOB. SAME SHALL MATCH NEW WORK (IN AREAS OF REMODELING ONLY)

WHERE NEW WORK CONNECTS WITH EXISTING, THE CONTRACTOR SHALL DO ALL NECESSARY CUTTING, FITTING, AND PATCHING. HE SHALL FURNISH ALL NECESSARY LABOR AND MATERIALS FOR THIS WORK, WHETHER OR NOT SHOWN AND/OR SPECIFIED. ALL CONSTRUCTION TO REMAIN SHALL BE PATCHED, REPAIRED, AND PROPERLY MEMBERED/ALIGNED SO AS TO LEAVE NO EVIDENCE OF REMODELING AND DEMOLITION WORK. EXISTING PARTITION THAT IS NOT SHOWN ON PLANS IS TO BE DEMOLISHED AND REMOVED. V.I.F.

GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL PATCHING AND PAINTING AFTER INSTALLATION OF MILLWORK. ALL NEW WALLS ARE TO ALIGN AND TO BE LEVEL WITH EXISTING ADJACENT WALLS AND CONDITIONS UNLESS NOTED OTHERWISE.

NEW DOORS AND FRAMES SHOULD BE IN ACCORDANCE WITH BUILDING STANDARDS. WHERE EXISTING DOORS ARE SPECIFIED TO REMAIN IN DOOR SCHEDULE, THE GENERAL CONTRACTOR PRIOR TO BIDDING SHALL FIELD INSPECT THESE DOORS TO ASCERTAIN THEIR CONDITION AND SUITABILITY FOR REUSE. DEFECTIVE OR DAMAGED DOORS, INCLUSIVE OF HARDWARE AND FRAMES, SHALL BE REPAIRED TO INSURE THEIR PROPER OPERATION AND SATISFACTORY APPEARANCE. ALL EXISTING DOORS AND FRAMES SHALL BE SANDED AND FINISHED PER FINISH PLAN SPECIFICATIONS.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL HARDWARE WITH OTHER TRADES.

THE HARDWARE SUPPLIER SHALL BE RESPONSIBLE FOR PROVIDING THE PROPER LOCK CYLINDERS AS REQUIRED TO CONFORM TO THE BUILDING OWNER'S MASTER KEY SYSTEM.

THE HARDWARE SUPPLIER SHALL FURNISH THE DOOR AND FRAME MANUFACTURERS WITH THE NECESSARY TEMPLATES AND SPECIFICATIONS TO ENSURE THE PROPER INSTALLATION OF HARDWARE.

GENERAL CONTRACTOR TO PROVIDE AND INSTALL BUILDING STANDARD HAT SHELF IN CLOSETS INDICATED. SUPPORT AS REQUIRED. ALL SHELVES TO HAVE HARDWOOD EDGES AND BE PAINTED TO MATCH ADJACENT WALLS. PROVIDE CENTER SUPPORT IF REQUIRED.

ALL BUILT-IN PLUMBING FIXTURES TO BE SUPPLIED AND INSTALLED BY PLUMBING CONTRACTOR. PLUMBING CONTRACTOR TO SUPPLY ALL NECESSARY INFORMATION FOR CUT-OUTS TO BE PERFORMED BY CABINET CONTRACTOR.

ALL NON BUILT-IN PLUMBING FIXTURES TO BE SUPPLIED AND INSTALLED BY PLUMBING CONTRACTOR.

PLUMBING CONTRACTOR SHALL REFER TO THE PLUMBING PLANS AND SPECIFICATIONS FOR ALL PLUMBING WORK ON THIS CONSTRUCTION PROJECT. CONTRACTOR SHALL VISIT SITE TO VERIFY ALL EXISTING CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN PLUMBING PLANS AND ARCHITECTURAL PLANS OR ANY DIFFERENCES BETWEEN THESE CONSTRUCTION DOCUMENTS AND THE AS-BUILT CONDITIONS PRIOR TO COMMENCING WORK.

THE MECHANICAL CONTRACTOR SHALL REFER TO THE HVAC PLANS AND SPECIFICATIONS FOR ALL HVAC WORK ON THIS CONSTRUCTION PROJECT. THE MECHANICAL CONTRACTOR SHALL VISIT THE SITE TO INSPECT THE EXISTING CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL AND HVAC PLANS OR ANY DIFFERENCES BETWEEN THESE CONSTRUCTION DOCUMENTS AND THE AS-BUILT CONDITIONS PRIOR TO COMMENCING WORK.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR BLOCKING OFF SUPPLY AND RETURN GRILLES, DIFFUSERS, AND DUCTS TO KEEP DUST FROM ENTERING INTO THE BUILDING SYSTEM.

THE ELECTRICAL CONTRACTOR SHALL REFER TO THE POWER AND LIGHTING PLANS AND SPECIFICATIONS FOR ALL ELECTRICAL WORK ON THIS CONSTRUCTION PROJECT. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO INSPECT THE EXISTING CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND POWER / LIGHTING ELECTRICAL PLANS OR ANY DIFFERENCES BETWEEN THESE CONSTRUCTION DOCUMENTS AND THE AS-BUILT CONDITIONS PRIOR TO COMMENCING WORK.

ALL WORK SHALL BE EXECUTED IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES, ACCEPTED BY THE ARCHITECT, AND LEFT IN PERFECT OPERATING CONDITION.

OSHA RULES REGULATIONS AND REQUIREMENTS ARE A PART OF THIS PROJECT. ELECTRICAL / MECHANICAL / PLUMBING CONTRACTORS SHALL FOLLOW THEM ALONG WITH FEDERAL, STATE AND LOCAL REQUIREMENTS FOR THE SAFETY OF WORKERS ON THE JOB AND PASSERS - BY.

OMISSIONS FROM THE ARCHITECTS DRAWINGS OR SPECIFICATIONS OF ANY ITEM NECESSARY FOR THE PROPER COMPLETION AND OPERATION OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR FROM FURNISHING SAME WITHOUT ANY ADDITIONAL COST TO THE OWNER. REVIEW ALL CONSTRUCTION DOCUMENTS AND COORDINATE EACH INSTALLATION TO AVOID ALL CONFLICTS.

MILLWORK NOTES:

ELEC. CONTRACTOR TO WIRE AND BALANCE ALL CIRCUITS TO NEW LIGHTING AND POWER OUTLETS

ALL CABINET WORK SHALL BE DONE IN ACCORDANCE WITH ARCHITECTURAL WOODWORKING INSTITUTE QUALITY STANDARD FOR 'CUSTOM GRADE' (AS APPLIC.)

CABINET CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD FOR BUILT-IN WORK PRIOR TO FABRICATION.

ALL CUSTOM CABINET WORK TO BE FURNISHED, DELIVERED, AND INSTALLED BY THE CABINET CONTRACTOR.

ALL WOOD BLOCKING TO BE FURNISHED AND INSTALLED BY GENERAL CONTRACTOR. CONTRACTOR TO COORDINATE WITH MILLWORK CONTRACTOR FOR TYPE AND LOCATIONS REQUIRED.

THE CABINET CONTRACTOR SHALL SHOP-INSTALL, WHERE POSSIBLE ALL ELECTRICAL FIXTURES, SWITCHES, OUTLETS, ETC., OR ALL NECESSARY CUT-OUTS. THIS WORK SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR.

WHERE ELECTRICAL WORK IS SPECIFIED, IN CABINET WORK, LAMPS, AND FIXTURES ARE TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR. CUT-OUTS FOR SWITCHES, OUTLETS, ETC., AS REQUIRED, ARE BY THE CABINET CONTRACTOR AND TO BE COORDINATED WITH THE ELECTRICAL CONTRACTOR.

MILLWORK CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WALL COVERING IN OR ON CABINET WORK. UNLESS NOTED OTHERWISE.

ALL WOOD SURFACES TO BE PAINTED SHALL BE PROPERLY SEALED, SANDED, AND SHOP PRIMED TO RECEIVE SHOP FINISH COATS BY THE CABINET CONTRACTOR. EDGES TO BE SHELF EDGED PRIOR TO

FINISH NOTES:

PAINTING AND DECORATING CONTRACTOR SHALL EXAMINE EXISTING CONDITIONS AND REPORT ALL IRREGULARITIES IMMEDIATELY TO THE GENERAL CONTRACTOR. COMMENCEMENT OF WORK SHALL INDICATE ACCEPTANCE OF EXISTING SURFACE.

ALL PAINT SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION FOR TYPE OF PAINT AND SURFACE CONDITIONS.

ALL WALL AND CEILING FINISHES TO HAVE CLASS 1 SPREAD RATING.

WALL COVERING CONTRACTOR TO COORDINATE ALL WALL COVERING APPLICATIONS OVER NEW WORK.

FLOOR COVERINGS IN CLOSETS SHALL BE THE SAME AS THAT OF THE SPACE ONTO WHICH THE CLOSET DOOR OPENS, UNLESS NOTED OTHERWISE.

FLASH PATCH ALL AREAS WHERE FLOOR IS NOT LEVEL OR TRUE, PRIOR TO FLOOR INSTALLATION.

PROVIDE AND INSTALL ALL THE TILE FLOORING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. FLAME SPREAD RATING OF ALL INTERIOR FLOOR COVERINGS TO BE 75 OR LESS.

PROTECT ALL WORK FINISHED UNDER THIS SECTION AND ALL ADJACENT WORK AND MATERIALS BY SUITABLE COVERINGS OR OTHER METHOD DURING PROGRESS OF THE PAINTING WORK.

FILL ALL NAIL HOLES WITH SUITABLE FILLER. REMOVE ALL SPATTER OF SPILLAGE OF PAINT ON GLASS, FLOORS, AND OTHER FINISHED SURFACES.

CLEAN ALL SURFACES TO BE FINISHED AS REQUIRED TO REMOVE OIL, GREASE, DUST, AND DIRT. SAND WHERE NECESSARY AND AT EXISTING PAINTED SURFACES TO PROPERLY PREPARE SURFACES TO RECEIVE FINISH.

FINAL COATS SHALL NOT BE APPLIED UNTIL AFTER OTHER TRADE WHOSE OPERATIONS WOULD BE DETRIMENTAL TO FINISH PAINTING HAVE FINISHED WITH THEIR WORK IN THE AREAS TO BE PAINTED.

ACCESS PANELS, ELECTRICAL PANELS, AIR DIFFUSING OUTLETS, SUPPLY AND EXHAUST GRILLES, LOUVERS, EXPOSED CONDUIT, PRIMED OUTLET COVERS, PRIMED WALL AND CEILING PLATES AND OTHER ITEMS IN PAINTED AREAS SHALL BE PAINTED TO MATCH THE AREAS IN WHICH THEY OCCUR UNLESS OTHERWISE SPECIFIED.

ALL SURFACES SHALL BE PROPERLY PREPARED, PRIOR TO THE INSTALLATION OF WALL COVERINGS.

WHERE NEW WORK CONNECTS WITH EXISTING, THE GEN. CONTRACTOR SHALL DO ALL NECESSARY CUTTING, FITTING AND PATCHING. HE SHALL FURNISH ALL NECESSARY LABOR AND MATERIALS OF THIS WORK, WHETHER OR NOT SHOWN OR SPECIFIED.

WORKMANSHIP SHALL BE FIRST CLASS IN EVERY RESPECT WITH ALL MATERIALS EVENLY SPREAD AND SMOOTHLY FLOWED ON WITHOUT RUNS AND SAGS.

ALL DOORS, WHEN PAINTED, TO BE SAME COLOR BOTH SIDES, UNLESS OTHERWISE NOTED.

ALL AIR CONDITIONER CEILING DIFFUSERS AND REGISTERS SHALL BE PAINTED TO MATCH CEILING, UNLESS NOTED OTHERWISE.

ALL WOOD GROUNDS TO BE FIREPROOF WOOD IN ACCORDANCE WITH LOCAL BUILDING CODES.

ALL WOODWORK AND BLOCKING ATTACHED TO THE PREMISES SHALL BE FIREPROOFED IN ACCORDANCE WITH LOCAL BUILDING CODES.

GENERAL CONTRACTOR SHALL PROVIDE ALL BLOCKING CONCEALED WITHIN WALLS AND COMBINE ABOVE CEILING. ALL OTHER BLOCKING TO BE PROVIDED BY INDIVIDUAL TRADES.

ALL SURFACES THAT ARE TO RECEIVE PLASTIC LAMINATE FINISHES SHALL ALSO HAVE PLASTIC LAMINATE ON THE BACK AND EDGES, WHERE APPLICABLE, UNLESS NOTED OTHERWISE.

WHERE WOOD SURFACES ARE PAINTED, WOOD IS TO BE PROPERLY SEALED, SANDED, AND SHOP PRIMED TO RECEIVE FINISH COAT, BY CASEWORK CONTRACTOR.

GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL WOOD BLOCKING OR ADDITIONAL STRUCTURAL SUPPORT WITHIN THE PARTITION OR CEILING FLENUM AS REQUIRED FOR THE INSTALLATION OF SPECIAL CONSTRUCTION AS NOTED. MATERIALS TO RECEIVE PAINTED OR NATURAL TRANSPARENT FINISHED SHALL BE FREE FROM DEFECTS AND BE FILLED, SEALED, AND SANDED SMOOTH BEFORE FINISHING. FINISHES SHALL BE SHOP APPLIED WITH A PRESSURIZED SPRAY GUN IN A DUST-FREE SPRAY BOOTH. FINISHES SHALL BE TOUCHED UP IN THE FIELD AFTER INSTALLATION.

GENERAL CONTRACTOR TO SUPPLY ALL NECESSARY INFORMATION FOR CUTOUTS TO CABINET WORK CONTRACTOR.

DEMOLITION NOTES:

WHERE DEMOLITION OCCURS, ALL REMAINING WALLS ARE TO BE PATCHED, SANDED SMOOTH AND PRE-PREPARED FOR FINISHING AS REQUIRED. PATCH AND REPAIR FLR., WALL, CLG. AS REQUIRED FOR SMOOTH, LEVEL FINISH.

ALL EXISTING WALL FINISHES TO BE REMOVED. WALLS ARE TO BE PATCHED, SANDED SMOOTH AND PREPARED FOR NEW FINISHES AS REQUIRED.

WHERE NEW PARTITION MEETS EXISTING FURRED COLUMN OR CORE WALL, REMOVE CORNER BEAD, ALIGN, TAPE, AND SPACKLE NEW PARTITION TO EXISTING GYPSUM BOARD.

ALL CONSTRUCTION TO REMAIN AND EFFECTED BY DEMOLITION SHALL BE PATCHED AND SPACKLED AND BE PROPERLY MEMBERED AND ALIGNED SO AS TO LEAVE NO EVIDENCE OF PATCHING OR REPAIRS.

ALL EXISTING CARPETING SHALL BE REMOVED, INCLUDING CARPET STRIPS AND PADDING IN AREA OF CONST. (AS DIRECTED BY OWNER)

EXISTING ELECTRICAL AND TELEPHONE OUTLETS LOCATED ON DEMOLISHED WALLS ARE TO BE REMOVED INCLUDING CONDUIT AND WIRING BACK TO JUNCTION BOX.

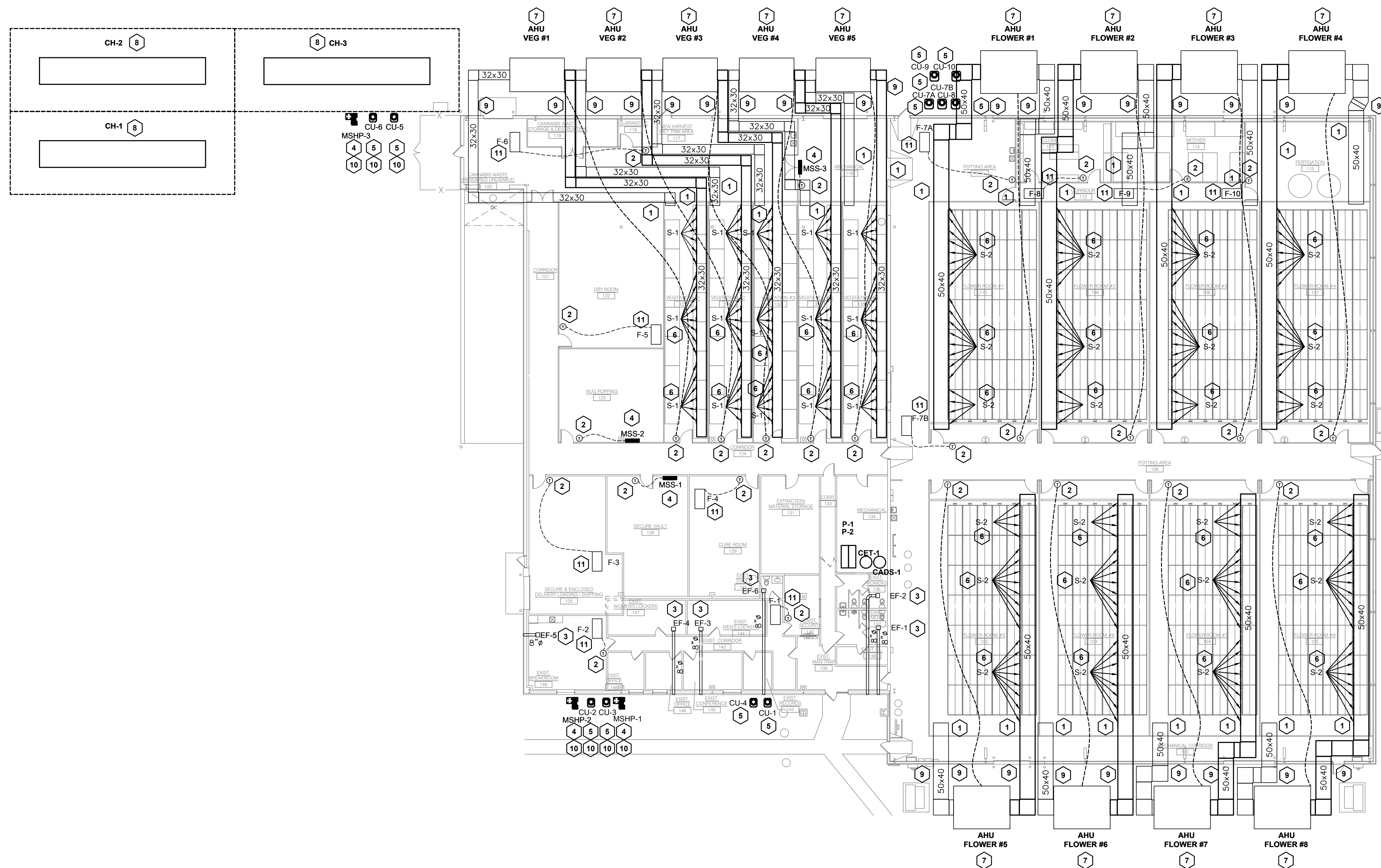
WHERE PLUMBING FIXTURES ARE BEING REMOVED OR WHERE EXPOSED PLUMBING PIPES OCCUR, CAP LINES BEHIND FINISHED SURFACES.

ALL EXISTING CONSTRUCTION WHERE INDICATED INCLUDING ELECTRICAL, TELEPHONE, PLUMBING, AND MECHANICAL DEVICES INDICATED ON THESE CONSTRUCTION DRAWINGS SHALL BE REMOVED IN A CAREFUL MANNER SO AS NOT TO DAMAGE ADJOINING CONSTRUCTION.

DATE	REVISION	ISSUED FOR REVIEW
12-11-12		
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	CHECKED BY:	PAP
	APPROVED:	PAP
A NEW CULTIVATION FACILITY FOR CRAFT CROW 740 SCHNEIDER DR. SOUTH ELGIN, IL 60177		
SHEET NO.		
SHEET 3 OF 3		

HVAC KEYED "8" NOTES

1. PROVIDE SUPPLY & RETURN AIR DUCTWORK AS HIGH AS POSSIBLE. COORDINATE WITH ALL OTHER BUILDING ELEMENTS.
2. LOCATION OF NEW THERMOSTAT/HUMIDISTAT. FIELD VERIFY FINAL LOCATION.
3. PROVIDE CEILING MOUNTED EXHAUST FAN AND ROUTE TO EXTERIOR WALL.
4. PROVIDE NEW DUCTLESS MINI-SPLIT AND REMOTE AIR COOLED HEAT PUMP AS SCHEDULED. ROUTE REFRIGERANT PIPING IN MOST DIRECT PATH.
5. PROVIDE NEW CONDENSING UNIT ON NEW CONDENSATE PAD AT GRADE.
6. PROVIDE SIDEWALL SUPPLY GRILLE.
7. PROVIDE AND INSTALL NEW AHU ON GRADE/CONCRETE PAD.
8. PROVIDE AND INSTALL NEW CHILLER ON GRADE/CONCRETE PAD.
9. ROUTE DUCT UP AS HIGH AS POSSIBLE. MAINTAIN PATH FOR EGRESS WALKWAY.
10. ROUTE REFRIGERANT PIPING IN MOST DIRECT PATH.
11. PROVIDE AND INSTALL NEW HORIZONTAL FURNACE AS HIGH AS POSSIBLE. ROUTE DUCTWORK APPROXIMATELY AS SHOWN.

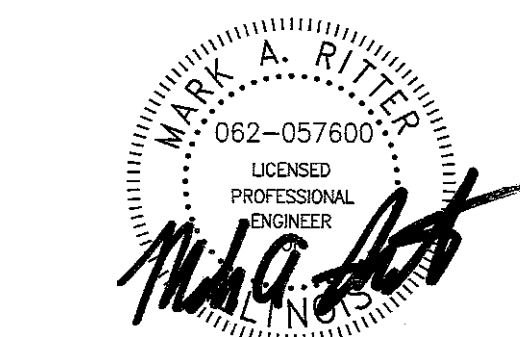


1 FLOOR PLAN - HVAC DUCTWORK
M-1 1/16" = 1'-0"
 NORTH



112 NORTH KANSAS ST.
 EDWARDSVILLE, IL 62025
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ILLINOIS DESIGN FIRM
 184.006312



SIGNATURE

12/10/2021

DATE

11/30/2023

LICENSE EXPIRES

GRI Holdings, LLC
 740 Schneider
 South Elgin, IL 60177

PROJECT NO. R21-049

DATE 12/10/21

DRAWN CDB

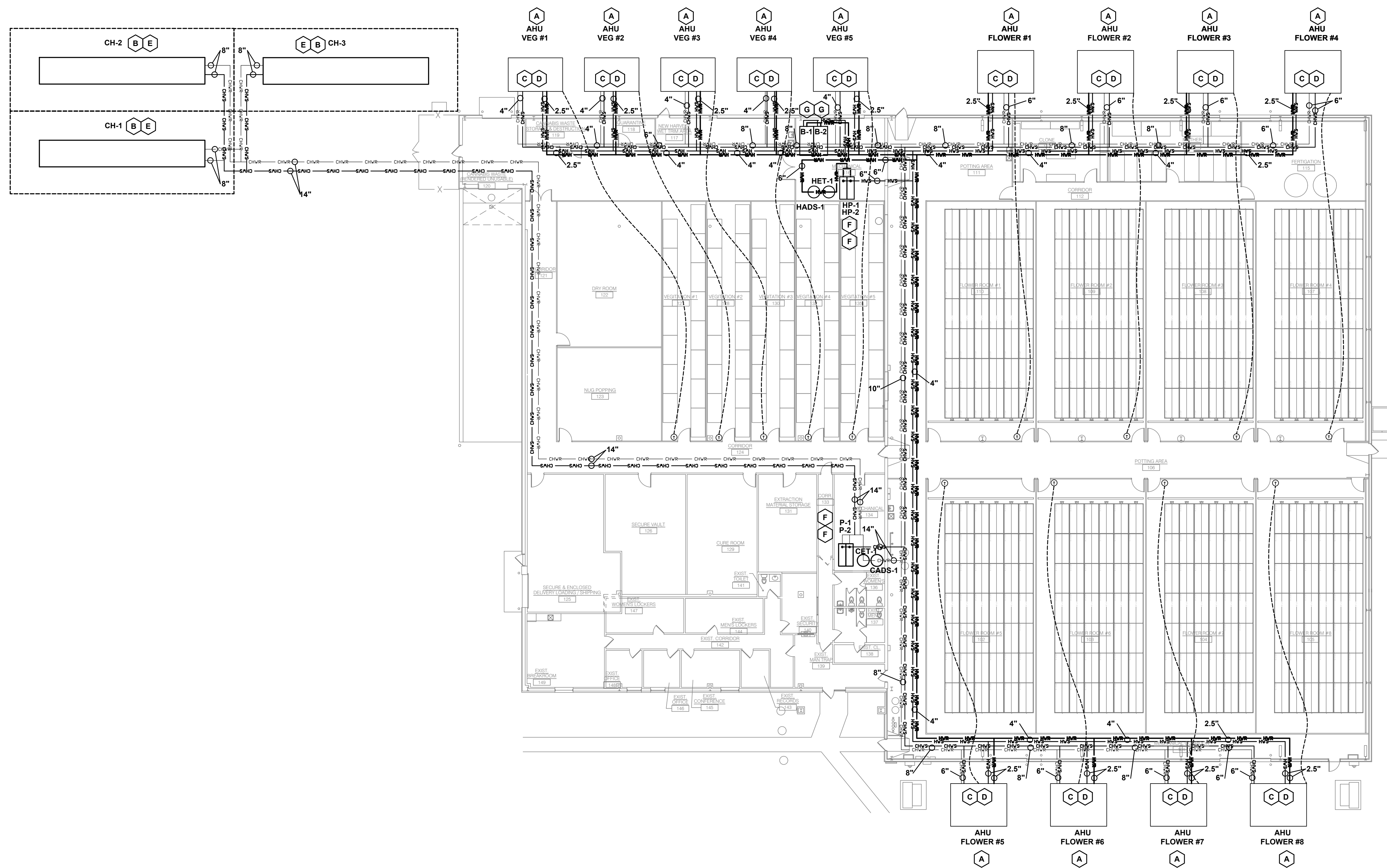
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FLOOR PLAN -
 HVAC DUCTWORK

M-1

HVAC KEYED " " NOTES

- A. PROVIDE NEW AHU ON CONCRETE PAD AT GRADE.
- B. CHILLERS ON CONCRETE PAD.
- C. PROVIDE 2 WAY VALVE ON CWS/CWR AND HWS/HWR FOR ISOLATION. PROVIDE 3 WAY VALVE FOR CONTROL ON BOTH CWS/CWR AND HWS/HWR.
- D. PROVIDE NEW 2 WAY ISOLATION VALVES FOR CHILLER (BOTH CWS/CWR). CHILLER TO CLOSE 2-WAY VALVES IF CHILLER IS OFF. CHILLER TO OPEN VALVES AND START CHILLER ON PROOF OF FLOW.
- E. ESTIMATED CHILLED WATER SYSTEM VOLUME IS ~10,200 GALLONS. IT IS BELIEVED THAT A CHILLED WATER BUFFER TANK IS NOT REQUIRED. CHILLER SUPPLIER TO VERIFY.
- F. PROVIDE BASE MOUNTED PUMP(S), INCLUDE VFD & MULTI-PURPOSE VALVES.
- G. PROVIDE BOILER. ROUTE FLUE AND COMBUSTION AIR THROUGH ROOF. MAINTAIN ALL CLEARANCES AS REQUIRED BY CODE AND EQUIPMENT SUPPLIER. BOILER CONNECTIONS ARE 6". BOILER HEADER FROM PIPING INJECTION LOOP TO SYSTEM LOOP TO BE 6".

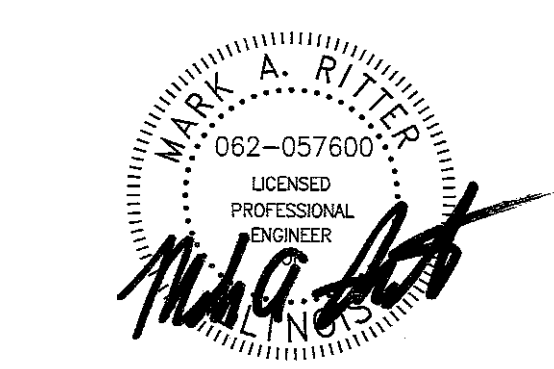


1 FLOOR PLAN - HVAC PIPING
M-1.1 1/16" = 1'-0"
 NORTH



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 740 Schneider
 South Elgin, IL 60177

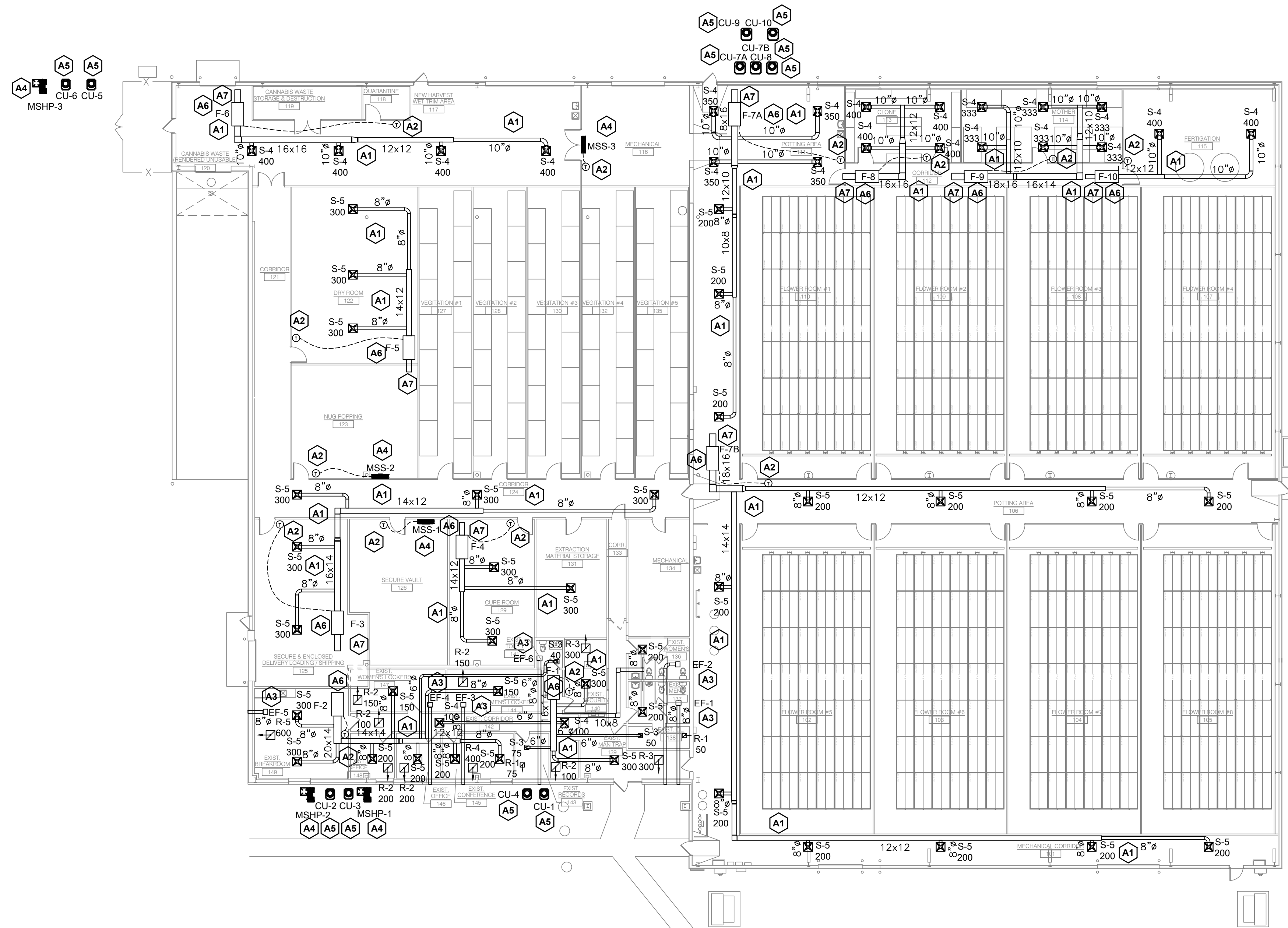
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CHECKED	KDW

**FLOOR PLAN -
 HVAC PIPING**

M-1.1

HVAC KEYED " " NOTES

- A1. PROVIDE SUPPLY & RETURN AIR DUCTWORK AS HIGH AS POSSIBLE. COORDINATE WITH ALL OTHER BUILDING ELEMENTS.
- A2. LOCATION OF NEW THERMOSTAT. FIELD VERIFY FINAL LOCATION.
- A3. PROVIDE CEILING MOUNTED EXHAUST FAN AND ROUTE TO EXTERIOR WALL.
- A4. PROVIDE NEW DUCTLESS MINI-SPLIT AND REMOTE AIR COOLED HEAT PUMP AS SCHEDULED. ROUTE REFRIGERANT PIPING IN MOST DIRECT PATH.
- A5. PROVIDE NEW CONDENSING UNIT ON NEW CONDENSATE PAD AT GRADE. ROUTE REFRIGERANT PIPING IN MOST DIRECT PATH.
- A6. PROVIDE AND INSTALL NEW HORIZONTAL FURNACE AS HIGH AS POSSIBLE. ROUTE DUCTWORK APPROXIMATELY AS SHOWN.
- A7. ADD FILTER IN RETURN PATH ON RETURN SIDE.

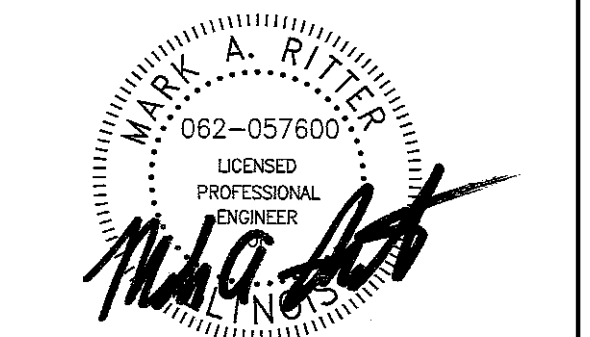


1 FLOOR PLAN - SPLIT SYSTEMS
M-1.2 1/16" = 1'-0"
 NORTH



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 740 Schneider
 South Elgin, IL 60177

PROJECT NO.	R21-049
DATE	12/10/21
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CHECKED	KDW

FLOOR PLAN -
 SPLIT SYSTEMS

M-1.2

GENERAL HVAC NOTES:

- A. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- B. PROVIDE WORK IN ACCORDANCE WITH THE LATEST EDITION OF ALL RULES, CODES AND REGULATIONS OF THE STATE OF PENNSYLVANIA AND JURISDICTIONAL REQUIREMENTS.
- C. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
- D. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS AND APPLICABLE CODES AND REGULATIONS.
- E. ALL TESTS SHALL BE COMPLETED BEFORE ANY EQUIPMENT, DUCTWORK OR PIPING INSULATION IS APPLIED.
- F. WHERE TWO OR MORE ITEMS OF THE SAME TYPE AND EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.
- G. COORDINATE DIFFUSER, REGISTER AND GRILLE LOCATIONS WITH ARCHITECTURAL CEILING PLANS, LIGHTING AND OTHER CEILING ITEMS AND MAKE MINOR DUCT MODIFICATIONS TO SUIT.
- H. LOCATE ALL MECHANICAL EQUIPMENT FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS & CONTROLS.
- I. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS CONNECTED TO FANS AND OTHER EQUIPMENT. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.
- J. BALANCE AIR FLOW TO ALL NEW HVAC EQUIPMENT, AS SPECIFIED AND INDICATED ON PLANS.
- K. ALL HVAC EQUIPMENT AND ASSOCIATED DISCONNECTS SHALL BE LABELED WITH THE EQUIPMENT NUMBER PERMANENTLY AFFIXED WITH AN ENGRAVED PLASTIC LABEL.
- L. WIRE TIE ALL T-BAR MOUNTED CEILING DIFFUSERS TO THE MAIN RUNNERS OF THE CEILING AND STRUCTURAL SUPPORT.
- M. PROVIDE VIBRATION ISOLATION TO ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
- N. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS. DO NOT SCALE DRAWINGS.
- O. LOCATIONS AND SIZES OF ALL FLOOR, WALL AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
- P. INSTALL ALL EXTERIOR VENTS, EXHAUSTS, AND OUTSIDE-AIR INTAKES SO THAT ANY OUTSIDE-AIR INTAKE IS EITHER 2'-0" LOWER THAN ANY EXHAUST OR VENT WITHIN 15' OR 15' CLEAR OF ANY EXHAUST OR VENT AT THE SAME HEIGHT. COORDINATE WITH PLUMBING WORK FOR PLUMBING VENTS. OUTSIDE AIR EXHAUST AND INTAKE OPENINGS SHALL BE PROTECTED WITH CORROSION-RESISTANT SCREENS, LOUVERS OR ROOF/WALL CAPS, AS SHOWN AND SPECIFIED. OPENINGS SHALL BE PROTECTED AGAINST ALL LOCAL WEATHER CONDITIONS.
- Q. CONTRACTOR SHALL FLASH AND SEAL ALL NEW ROOF PENETRATIONS AND OPENINGS CREATED BY PROJECT SCOPE PER ROOFING MANUFACTURERS RECOMMENDATIONS.
- R. COORDINATE DUCTWORK IN INTERSTITIAL SPACE WITH ROOF STRUCTURE. THIS WILL INCLUDE COORDINATING WITH NEW STRUCTURE TO PROVIDE FRAMED OPENINGS AS NECESSARY.
- S. ALL DUCTWORK TO BE INSTALLED AS TIGHT TO THE UNDERSIDE OF THE ROOF STRUCTURE AS POSSIBLE TO PERMIT SPACE FOR OTHER PIPING, WIRING, ETC.
- T. WRAP ALL SUPPLY AND RETURN DUCTS WITH 1-1/2" DUCT WRAP.
- U. USE RADIUS ELBOWS ON ALL SUPPLY DUCTWORK. IF SPACE LIMITATIONS REQUIRE THE USE OF SQUARE ELBOWS, USE TURNING VANES.
- V. PROVIDE 150% TAKE-OFF AND MANUAL VOLUME DAMPERS AT ALL ROUND DUCT TAKE-OFFS FROM RECTANGULAR DUCTWORK, TYPICAL.
- W. MECHANICAL EQUIPMENT, DUCTWORK AND PIPING SHALL NOT BE SUPPORTED FROM METAL DECK.
- X. ALL CONDENSATE PIPING IS TO BE SCH. 40 PVC. PROVIDE CLEANOUTS AT EACH ACCESSIBLE 90° BEND (TEE AND REMOVABLE PLUG) ON THE CONDENSATE DRAIN PIPING FOR PIPING THAT CONTAIN TWO OR MORE 90° BENDS.
- Y. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND PLUMBING WORK SHOWN ON OTHER CONTRACT DRAWINGS.
- Z. PAINT ALL ROOF JACKS/CAPS TO MATCH EXTERIOR FINISH.
- AA. ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED.
- AB. ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS.
- AC. PROVIDE ROUND U.L. CLASS 1 FLEXIBLE DUCT WITH 1" THICK FIBERGLASS INSULATION AND BI-DIRECTIONAL REINFORCED METALLIZED VAPOR BARRIER. MAXIMUM LENGTH 6'-0". FLEXIBLE DUCT SHALL BE THE SAME SIZE AS AIR DISTRIBUTION DEVICE NECK DIAMETER. SECURE FLEXIBLE DUCT TO SPIN-IN AND AIR DEVICE NECK WITH CORROSION RESISTANT METAL CLAMPS AND SEAL VAPOR BARRIER WITH SMACNA APPROVED TAPE.
- AD. ALL DUCTWORK MUST BE SEALED IN ACCORDANCE WITH SMACNA. PRESSURE SENSITIVE TAPE SHALL NOT BE USED AS THE PRIMARY SEALANT.
- AE. INSTALL ALL DUCTS AS PER SMACNA AND NFPA 90A. ENSURE THAT DUCT FASTENERS AND SEALANTS ARE USED. SEAL ALL LONGITUDINAL SEAMS AND ALL TRANSVERSE SEAMS.
- AF. CONTRACTOR TO PROVIDE OWNER WITH OPERATION AND MAINTENANCE MANUALS FOR ALL HVAC SYSTEMS WITHIN 90 DAYS OF PROJECT COMPLETION.
- AG. CONTRACTOR TO PROVIDE OWNER WITH AS-BUILT RECORD DRAWINGS WITHIN 90 DAYS OF PROJECT COMPLETION.
- AH. WHEN MECHANICAL WORK IS SUBCONTRACTED, IT SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE SUBCONTRACTORS AND THE ASSOCIATED CONTRACTS.
- AI. THE MECHANICAL DRAWINGS INDICATE THE GENERAL DESIGN AND ARRANGEMENT OF LINES, EQUIPMENT, SYSTEM, ETC. INFORMATION SHOWN IS DIAGRAMMATIC IN CHARACTER AND DOES NOT INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DO NOT SCALE FOR DIMENSIONS.
- AJ. SOME ASSUMPTIONS WERE MADE REGARDING DUCT CONFIGURATION DURING DESIGN. THIS CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL FIELD CONDITIONS PRIOR TO THE PURCHASE OF ANY MATERIALS AND COMMENCEMENT OF ANY WORK AND IS TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FOR RESOLUTION.
- AK. PROVIDE SUFFICIENT ACCESS TO SERVICE ALL MECHANICAL EQUIPMENT.
- AL. ALL EQUIPMENT, MATERIALS AND INSTALLATION IS TO BE WARRANTED FOR ONE YEAR TO BE FREE FROM DEFECT. PROVIDE WRITTEN WARRANTY TO OWNER.
- AM. ALL DUCTWORK TO BE OF SHEETMETAL CONSTRUCTION PER SMACNA STANDARDS FOR LOW PRESSURE DISTRIBUTION. PROVIDE ALL VOLUME DAMPERS AND TURNING VANES NECESSARY FOR A COMPLETE AND FUNCTIONAL SYSTEM. COORDINATE SHEETMETAL LAYOUT WITH ALL OTHER TRADES PRIOR TO ANY FABRICATION. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK.
- AN. ALL CONTROL WORK TO BE PER MECHANICAL EQUIPMENT LIST. PROVIDE ANY NECESSARY TRANSFORMERS FOR LOW VOLTAGE CONTROL CIRCUITS. LOW VOLTAGE (24V) WIRING TO BE BY M.C.
- AO. DUCTWORK SIZES ARE CLEAR INSIDE DIMENSIONS.
- AP. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
- AQ. ALL REFRIGERANT LINES GET INSULATED WITH 1/2" ELASTOMERIC CELL INSULATION (ARMACELL/RUBATEX, ETC). ANY LINES EXTERIOR TO THE BUILDING SHALL HAVE AN ALUMINUM JACKET FOR WEATHER PROTECTION.
- AR. ALL CHILLED WATER LINES SHALL HAVE 1-1/2" THICK FIBERGLASS INSULATION. ALL EXTERIOR CHILLED WATER LINES SHALL HAVE 1-1/2" THICK ELASTOMERIC CELL INSULATION AND ALUMINUM JACKET. ALL EXTERIOR CHILLED WATER INSULATION SHALL ALSO HAVE HEAT TRACE AT 5 WATTS/LF FOR FREEZE PROTECTION.
- AS. ALL HEATING WATER LINES SHALL HAVE 2" THICK FIBERGLASS INSULATION.

SCHEDULE OF GAS FURNACES												
MARK	MANUFACTURER AND MODEL NO.	INPUT MBH	OUTPUT MBH	SUPPLY CFM	TEMP. RISE °F	O.A. CFM	EXTERNAL S.P.	PILOT TYPE	ELECTRICAL			REMARKS
									HP	FLAM/CA	VOLT/PH	
F-1	CARRIER 59TP6-100V211114	100/65	97/63	1325	40-70	250	0.50"	HOT SRFC	1	14.7	115/1	1-7
F-2	CARRIER 59TP6-120V241120	120/78	117/76	1740	40-70	470	0.50"	HOT SRFC	1	12.6	115/1	1-7
F-3	CARRIER 59TP6-100V211116	100/65	97/63	1500	40-70	132	0.50"	HOT SRFC	1	14.7	115/1	1-7
F-4	CARRIER 59TP6-80V211110	80/52	78/50	900	40-70	64	0.50"	HOT SRFC	1	14.7	115/1	1-7
F-5	CARRIER 59TP6-80V171110	80/52	78/50	900	40-70	207	0.50"	HOT SRFC	3/4	10.0	115/1	1-7
F-6	CARRIER 59TP6-120V241116	120/78	117/76	1600	40-70	340	0.50"	HOT SRFC	1	12.6	115/1	1-7
F-7A	CARRIER 59TP6-120V241120	120/78	117/76	2000	40-70	414	0.50"	HOT SRFC	1	12.6	115/1	1-7
F-7B	CARRIER 59TP6-120V241120	120/78	117/76	2000	40-70	414	0.50"	HOT SRFC	1	12.6	115/1	1-7
F-8	CARRIER 59TP6-120V241116	120/78	117/76	1600	40-70	107	0.50"	HOT SRFC	1	12.6	115/1	1-7
F-9	CARRIER 59TP6-120V241120	120/78	117/76	2000	40-70	138	0.50"	HOT SRFC	1	12.6	115/1	1-7
F-10	CARRIER 59TP6-80V171110	80/52	78/50	800	40-70	134	0.50"	HOT SRFC	3/4	10.0	115/1	1-7

- NOTE:
1. PROVIDE CONCENTRIC VENT TERMINATION KIT.
 2. PROVIDE CONDENSATE NEUTRALIZER KIT.
 3. PROVIDE OR FABRICATE SIDE FILTER RETURN RACK.
 4. SEE NOTES ON EVAPORATOR COIL SCHEDULE FOR EVAPORATOR COIL PLENUM MATING REQUIREMENTS.
 5. PROVIDE PROGRAMMABLE THERMOSTAT WITH 7-DAY OPERATION AND COMPATIBLE WITH FURNACE; AUTO-CHANGE OVER TYPE.
 6. MOTOR SHALL BE EC TYPE.
 7. FURNACE IS 2 STAGE HEATING.

SCHEDULE OF DIRECT EXPANSION COILS											
MARK	MANUFACTURER AND MODEL NO.	CFM	DEB	WEB	DB	LB	SUCTION TEMP.	SENSIBLE MBH	TOTAL MBH	REMARKS	
											EC-1
EC-2	CARRIER CNPVP6024	1740	80	67	55	55	40	46.6	63.1	1-4	
EC-3	CARRIER CNPVP4821	1500	80	67	55	55	40	38.1	41.5	1-4	
EC-4	CARRIER CNPVP3621	900	80	67	55	55	40	25.4	37.1	1-4	
EC-5	CARRIER CNPVP2417	900	80	67	55	55	40	19.4	24.8	1-4	
EC-6	CARRIER CNPVP6024	1600	80	67	55	55	40	37.7	47.3	1-4	
EC-7A	CARRIER CNPVP6024	2000	80	67	55	55	40	42.05	53.25	1-4	
EC-7B	CARRIER CNPVP6024	2000	80	67	55	55	40	42.05	53.25	1-4	
EC-8	CARRIER CNPVP6024	1600	80	67	55	55	40	40.4	55.8	1-4	
EC-9	CARRIER CNPVP6024	2000	80	67	55	55	40	55.4	76.1	1-4	
EC-10	CARRIER CNPVP2417	800	80	67	55	55	40	15.3	18.9	1-4	

- NOTE:
1. DEB AND WEB ARE DESIGN CONDITION PARAMETERS (DESIGN WET BULB/DRY BULB).
 2. DB AND LB ARE TARGET CONDITION OUTPUTS FROM EQUIPMENT AND ARE ASSUMED.
 3. ENSURE COMPARABILITY BETWEEN FURNACE, CONDENSING UNIT AND EVAPORATOR COIL TO MEET CAPACITIES.
 4. ALL SENSIBLE AND LATENT CAPACITIES ARE MINIMUM REQUIREMENTS - SUPPLIER SHALL MAKE EQUIPMENT SELECTION ADJUSTMENTS TO MEET OR EXCEED THE MINIMUM REQUIREMENTS WITHIN THIS SCHEDULE.

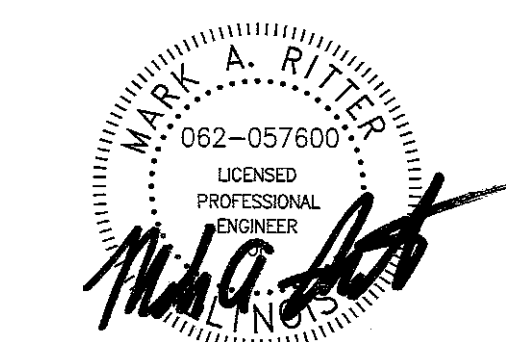
SCHEDULE OF AIR COOLED CONDENSING UNITS							SUMMER AMBIENT: _95 °F	
MARK	MANUFACTURER AND MODEL NO.	NOMINAL MBH	REFRIGERANT	ELECTRICAL		REMARKS		
				MCA	VOLT/PH			
CU-1	CARRIER 24ACB748A0030	48	R-410a	27.8	208-230/1	1-5		
CU-2	CARRIER 24ACB760A0030	60	R-410a	37.3	208-230/1	1-5		
CU-3	CARRIER 24ACB748A0030	48	R-410a	27.8	208-230/1	1-5		
CU-4	CARRIER 24ACB736A0030	36	R-410a	19.8	208-230/1	1-5		
CU-5	CARRIER 24ACB724A0030	24	R-410a	14.5	208-230/1	1-5		
CU-6	CARRIER 24ACB760A0030	60	R-410a	37.3	208-230/1	1-5		
CU-7A	CARRIER 24ACB760A0030	60	R-410a	37.3	208-230/1	1-5		
CU-7B	CARRIER 24ACB760A0030	60	R-410a	37.3	208-230/1	1-5		
CU-8	CARRIER 24ACB760A0030	60	R-410a	37.3	208-230/1	1-5		
CU-9	CARRIER 24ACB760A0030	60	R-410a	37.3	208-230/1	1-5		
CU-10	CARRIER 24ACB724A0030	24	R-410a	14.5	208-230/1	1-5		

- NOTE:
1. PROVIDE FREEZESTAT.
 2. PROVIDE HARD START KIT.
 3. PROVIDE SUPPORT FEET.
 4. PROVIDE LINESET FROM CONDENSING UNIT TO EVAPORATOR COIL.
 5. CONDENSING UNIT IS 2-STAGE.



112 NORTH KANSAS ST.
EDWARDSVILLE, IL 62025
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ILLINOIS DESIGN FIRM
184.006312



SIGNATURE

12/10/2021

DATE

11/30/2023

LICENSE EXPIRES

GRI Holdings, LLC
740 Schneider
South Elgin, IL 60177

PROJECT NO. R21-049

DATE 12/10/21

DRAWN CDB

CHECKED KDW

HVAC NOTES &
SCHEDULES

M-2

SCHEDULE OF AIR SEPARATOR						
MARK	MANUFACTURER AND MODEL NO.	CONNECTION SIZE	GPM	PRESSURE DROP	AIR REMOVAL	REMARKS
HADS-1	TACO 4910ADH	10"	681	~0.75'	AIR & DIRT HIGH VELOCITY	
CADS-1	TACO 4916ADH	16"	3102	~1.5'	AIR & DIRT HIGH VELOCITY	

- NOTES:
1. PROVIDE PIPE TRANSITIONS AS REQUIRED.

SCHEDULE OF EXPANSION TANKS					
MARK	MANUFACTURER AND MODEL NO.	SYSTEM	GALLON VOLUME		REMARKS
			TANK	ACCEPTANCE	
HET-1	TACO CA-300	HEATING	79	79	
CET-1	TACO CA-1300	COOLING	344	344	

- NOTES:
1. SET ON CONCRETE HOUSEKEEPING PAD.
2. PROVIDE NEW RPZ ON MAKEUP WATER LINE. DESIGN BASE IS WATTS 009 SIZED AT 3/4".
3. FLOOR MOUNT VERTICAL UNIT.

ROOM AMBIENT REFERENCE GUIDE					
	MOTHER ROOM	CLONE ROOM	VEGETATIVE ROOM	FLOWERING ROOM	DRY/CURE ROOM
Temperature	60 - 75 degrees F	72 - 78 degrees F	60 - 75 degrees F	72 - 74 degrees F	65 - 70 degrees F
Humidity Level	40 - 50% RH	45 - 50% RH	40 - 50% RH	40 - 50% RH	55 - 60% RH
CO2 Content	NA	NA	NA	NA	NA

HVAC CONTROLS / MONITORING

PROVIDE WEB-BASED MONITORING FOR THE FOLLOWING CRITICAL POINTS:

- CARBON DIOXIDE (CO2): PROVIDE A SEPARATE REMOTE SENSOR AND TIE THRU THE MICRO PROCESSOR OF THE AC UNIT. MONITOR THE CO2 LEVELS AND PROVIDE ALARM SET POINTS (ADJUSTABLE).
- TEMPERATURE: MONITOR THE TEMPERATURE IN EACH LOCATION. PROVIDE ALARM POINTS. (ADJUSTABLE)
- HUMIDITY: MONITOR THE HUMIDITY IN EACH LOCATION. PROVIDE ALARM POINTS. (ADJUSTABLE)
- MONITORING OF EACH AC UNIT SYSTEM OPERATING PARAMETERS.

SCHEDULE OF GRILLES AND DIFFUSERS									
MARK	MANUFACTURER AND MODEL NO.	TYPE	CFM	MOUNT	NECK	DAMPER	MATERIAL	FINISH	REMARKS
S-1	KRUEGER 880	DOUBLE DEFLECTION 3/4" BLADES STEEL GRILLE	500	DUCT	12"x10"	YES	STEEL	WHITE	1-2
S-2	KRUEGER 880	DOUBLE DEFLECTION 3/4" BLADES STEEL GRILLE	1275	DUCT	24"x14"	YES	STEEL	WHITE	1-2
S-3	KRUEGER SHR W/OBD	LOUVERED 4-WAY CEILING FLUSH FACE DIFFUSER	40-75	CEILING	6"	YES	STEEL	WHITE	1-2, 5
S-4	KRUEGER SHR W/OBD	LOUVERED 4-WAY CEILING FLUSH FACE DIFFUSER	100	CEILING	6"	YES	STEEL	WHITE	1-3
S-5	KRUEGER SHR W/OBD	LOUVERED 4-WAY CEILING FLUSH FACE DIFFUSER	150-300	CEILING	8"	YES	STEEL	WHITE	1-3
S-6	KRUEGER SHR W/OBD	LOUVERED 4-WAY CEILING FLUSH FACE DIFFUSER	333-400	CEILING	10"	YES	STEEL	WHITE	1-3
R-1	KRUEGER S80 RETURN	RETURN 3/4" SPACE & 35" DEFL.	50-75	ACT	6"x6"	NO	STEEL	WHITE	1-2, 4-5
R-2	KRUEGER S80 RETURN	RETURN 3/4" SPACE & 35" DEFL.	100-200	ACT	8"x6"	NO	STEEL	WHITE	1-4
R-3	KRUEGER S80 RETURN	RETURN 3/4" SPACE & 35" DEFL.	300	ACT	8"x8"	NO	STEEL	WHITE	1-4
R-4	KRUEGER S80 RETURN	RETURN 3/4" SPACE & 35" DEFL.	400	ACT	10"x8"	NO	STEEL	WHITE	1-4
R-5	KRUEGER S80 RETURN	RETURN 3/4" SPACE & 35" DEFL.	600	ACT	12"x10"	NO	STEEL	WHITE	1-4

- NOTES:
1. SEE DRAWINGS FOR LOCATION AND SIZES OF GRILLES AND DIFFUSERS.
2. INCLUDE OPTIONAL BALANCING DAMPER IN NECK.
3. MODULE SIZE IS 24"x24".
4. PROVIDE DUCT CONNECTIONS WHERE SHOWN.
5. MODULE SIZE IS 12"x12".

AIR HANDLING UNIT SCHEDULE																											
MARK	CARRIER MODEL NUMBER	AIR FLOW					CHILLED WATER COOLING COIL					HOT WATER HEATING COIL					FAN DATA			ELECTRICAL POWER			FILTER DATA	UNIT DATA			
		SUPPLY AIR FLOW CFM	TOTAL MBH	SENSIBLE MBH	ENT. OA TEMP °F	OA TEMP °F DB/WB	AIR TEMP DEG. F DB/WB ENT. LVG.	GPM	FLUID PRESSURE DROP (FT)	HEATING CAPACITY MBH	AIR TEMP DEG. F LVG.	GPM	FLUID TEMP °F	FLUID TEMP °F	APPROX. EXT. SP IN W.C.	TOTAL SP (IN W.C.)	RPM	APPROX. MOTOR BHP	VOLT	PHASE	HZ	MOP	MCA	TYPE	WEIGHT LBS.		
AHU VEG #1	39MW SIZE 40W	10,000	967.53	405.36	95/78	78.1/74.2	39.69/39.69	204.5	21"	446.74	36.90	75.82	45.1	1.2"	120"	100.2"	2.0"	3.34"	2236	7.9	460	3	60	40.4	45	MERV 13	6209 LBS
AHU VEG #2	39MW SIZE 40W	10,000	967.53	405.36	95/78	78.1/74.2	39.69/39.69	204.5	21"	446.74	36.90	75.82	45.1	1.2"	120"	100.2"	2.0"	3.34"	2236	7.9	460	3	60	40.4	45	MERV 13	6209 LBS
AHU VEG #3	39MW SIZE 40W	10,000	967.53	405.36	95/78	78.1/74.2	39.69/39.69	204.5	21"	446.74	36.90	75.82	45.1	1.2"	120"	100.2"	2.0"	3.34"	2236	7.9	460	3	60	40.4	45	MERV 13	6209 LBS
AHU VEG #4	39MW SIZE 40W	10,000	967.53	405.36	95/78	78.1/74.2	39.69/39.69	204.5	21"	446.74	36.90	75.82	45.1	1.2"	120"	100.2"	2.0"	3.34"	2236	7.9	460	3	60	40.4	45	MERV 13	6209 LBS
AHU VEG #5	39MW SIZE 40W	10,000	967.53	405.36	95/78	78.1/74.2	39.69/39.69	204.5	21"	446.74	36.90	75.82	45.1	1.2"	120"	100.2"	2.0"	3.34"	2236	7.9	460	3	60	40.4	45	MERV 13	6209 LBS
AHU FLOWER #1	39MW SIZE 85W	25,500	1107.79	662.21	95/78	76.6/66.7	51.89/51.89	234.4	19.4"	507.94	52.00	69.93	51.3	2.2"	120"	100.2"	2.0"	3.20"	1917	20.6	460	3	60	60.2	70	MERV 13	8478 LBS
AHU FLOWER #2	39MW SIZE 85W	25,500	1107.79	662.21	95/78	76.6/66.7	51.89/51.89	234.4	19.4"	507.94	52.00	69.93	51.3	2.2"	120"	100.2"	2.0"	3.20"	1917	20.6	460	3	60	60.2	70	MERV 13	8478 LBS
AHU FLOWER #3	39MW SIZE 85W	25,500	1107.79	662.21	95/78	76.6/66.7	51.89/51.89	234.4	19.4"	507.94	52.00	69.93	51.3	2.2"	120"	100.2"	2.0"	3.20"	1917	20.6	460	3	60	60.2	70	MERV 13	8478 LBS
AHU FLOWER #4	39MW SIZE 85W	25,500	1107.79	662.21	95/78	76.6/66.7	51.89/51.89	234.4	19.4"	507.94	52.00	69.93	51.3	2.2"	120"	100.2"	2.0"	3.20"	1917	20.6	460	3	60	60.2	70	MERV 13	8478 LBS
AHU FLOWER #5	39MW SIZE 85W	25,500	1107.79	662.21	95/78	76.6/66.7	51.89/51.89	234.4	19.4"	507.94	52.00	69.93	51.3	2.2"	120"	100.2"	2.0"	3.20"	1917	20.6	460	3	60	60.2	70	MERV 13	8478 LBS
AHU FLOWER #6	39MW SIZE 85W	25,500	1107.79	662.21	95/78	76.6/66.7	51.89/51.89	234.4	19.4"	507.94	52.00	69.93	51.3	2.2"	120"	100.2"	2.0"	3.20"	1917	20.6	460	3	60	60.2	70	MERV 13	8478 LBS
AHU FLOWER #7	39MW SIZE 85W	25,500	1107.79	662.21	95/78	76.6/66.7	51.89/51.89	234.4	19.4"	507.94	52.00	69.93	51.3	2.2"	120"	100.2"	2.0"	3.20"	1917	20.6	460	3	60	60.2	70	MERV 13	8478 LBS
AHU FLOWER #8	39MW SIZE 85W	25,500	1107.79	662.21	95/78	76.6/66.7	51.89/51.89	234.4	19.4"	507.94	52.00	69.93	51.3	2.2"	120"	100.2"	2.0"	3.20"	1917	20.6	460	3	60	60.2	70	MERV 13	8478 LBS

- NOTE:
1. UNIT HAS DOUBLE WALL R-13 SEALED INSULATED PANELS.
2. EXTERIOR PANELS HAVE PAINTED FINISH.
3. INTERIOR PANELS ARE GALVANIZED.
4. UNITS HAVE LEVEL 2 THERMAL BREAK.
5. UNIT INCLUDES 6" BASE RAIL.
6. UNIT INCLUDES 4" PLEATED FILTER, MERV 13.
7. UNIT HAS 304 STAINLESS STEEL DRAIN PAIN.
8. UNIT HAS SUPPLY FAN WITH VFD.
9. CHILLED WATER COIL/LOOP SIZED FOR 30% PROPYLENE GLYCOL.
10. HOT WATER HEATING COIL/LOOP DOES NOT HAVE GLYCOL.

HOT WATER BOILER SCHEDULE								
PLAN MARK	MFG	MODEL	MBH		FUEL	LWT	Δ T	REMARKS
			INPUT	OUTPUT				
B-1	LOCHINVAR CREST	FCB6000	6000	5766	N. GAS	120"	20	W/ PRIMARY PUMP
B-2	LOCHINVAR CREST	FCB6000	6000	5766	N. GAS	120"	20	W/ PRIMARY PUMP

- NOTE: BOILER(S) SHALL BE PROVIDED WITH THE FOLLOWING OPTIONS:
1. UNIT TO HAVE 96.1% THERMAL EFFICIENCY.
2. UNIT HAS TOUCH SCREEN OPERATING CONTROL.
3. UNIT HAS BUILT-IN CASCADING CAPABILITY.
4. UNIT IS CAPABLE OF BUILDING MANAGEMENT SYSTEM INTEGRATION.
5. UNIT HAS OUTDOOR RESET CONTROL WITH OUTDOOR AIR SENSOR.
6. UNIT HAS CONTROL FOR SYSTEM PUMPS AND BOILER PUMPS.
7. UNIT HAS 20:1 TURNDOWN.
8. UNIT HAS DIRECT SPARK IGNITION.
9. UNIT SHALL USE VERTICAL VENTING THROUGH ROOF.
10. UNIT SHALL HAVE ALARM BELL OPTION.
11. UNIT SHALL HAVE CONDENSATE NEUTRALIZATION KIT.
12. UNIT SHALL COME WITH VARIABLE SPEED BOILER PUMP.

SCHEDULE OF AIR COOLED CHILLERS											AMBIENT AIR: 95°F		
MARK	MANUFACTURER AND MODEL NO.	FLUID TYPE	EVAPORATOR				ELECTRICAL				WEIGHT LBS	REMARKS	
			TONS	EWV °F	LWT °F	GPM	WPD	MCA	MOP	VOLT/PH			EER
CH-1	CARRIER 30XV500	30% PROPYLENE GLYCOL	441.9	46	36	1020	20.6'	949.3	1200	460/3	8.683	27,938	1-11
CH-2	CARRIER 30XV500	30% PROPYLENE GLYCOL	441.9	46	36	1100	24.6'	938.3	1200	460/3	9.136	26,356	1-11
CH-3	CARRIER 30XV500	30% PROPYLENE GLYCOL	441.9	46	36	1100	24.6'	938.3	1200	460/3	9.136	26,356	1-11

- NOTE:
1. SEE DRAWINGS FOR LOCATIONS OF CHILLERS.
2. INCLUDE BASE UNIT.
3. INCLUDE 2-WAY ISOLATION VALVES.
4. INCLUDE SUCTION LINE INSULATION.
5. INCLUDE CONTROL TRANSFORMER.
6. INCLUDE FLOODED EVAPORATOR, WITH HEATER FOR BRINE APPLICATION, 2 PASS WITH HEATER.
7. INCLUDE VARIABLE SPEED CONDENSER FANS.
8. INCLUDE COIL TRIM PANELS.
9. INCLUDE LOW AMBIENT HEAD PRESSURE CONTROL.
10. STANDARD TIER.
11. INCLUDE BACNET/MODBUS TRANSLATOR INTERFACE CARD.

PUMP SCHEDULE									
PLAN MARK	MANUF.	MODEL	USE	GPM	FT HEAD	IMP SIZE	ELECTRICAL		REMARKS
							HP	VOLT/Ø	
HP-1	TACO	SF4013D	HEATING WATER LOOP	681	100	11.30	30	460/3	1-3
HP-2	TACO	SF4013D	HEATING WATER LOOP	681	100	11.30	30	460/3	1-3
CP-1	TACO	SF18013D	CHILLED WATER LOOP	3102	135	13.10	150	460/3	1-3
CP-2	TACO	SF18013D	CHILLED WATER LOOP	3102	135	13.10	150	460/3	1-3

- NOTES:
1. VFD'S FOR THE PUMPS SHALL BE PROVIDED BY THE PUMP SUPPLIER.
2. PUMPS SHALL BE SELF SENSING.
3. PUMPS SHALL BE PRESSURE CLASS 250 RATED.

SCHEDULE OF EXHAUST FANS									
MARK	MANUFACTURER AND MODEL NO.	TYPE	CFM	EXT. S.P.	RPM	MAX. SONES	ELECTRICAL		REMARKS
							POWER	VOLT/PH	
EF-1	GREENHECK SP-A290	CEILING	225	0.40"	1046	3.0	81 WATTS	115/1	1-7
EF-2	GREENHECK SP-A290	CEILING	225	0.40"	1046	3.0	81 WATTS	115/1	1-7
EF-3	GREENHECK SP-B150	CEILING	125	0.40"	885	2.0	128 WATTS	115/1	1-7
EF-4	GREENHECK SP-B150	CEILING	125	0.40"	885	2.0	128 WATTS	115/1	1-7
EF-5	GREENHECK SP-A290	CEILING	225	0.40"	1046	3.0	81 WATTS	115/1	1-7
EF-6	GREENHECK SP-B110	CEILING	75	0.40"	773	1.3	80 WATTS	115/1	1-7

- NOTE: UNIT SHALL BE PROVIDED WITH THE FOLLOWING OPTIONS:
1. PROVIDE SOLID STATE SPEED CONTROL, SHIPPED LOOSE.
2. PROVIDE ROUND HOODED WALL CAP, PAINTED TO MATCH COLOR AS SELECTED.
3. PROVIDE ALUMINUM GRILLE WITH WHITE FINISH.
4. PROVIDE ROUND DUCT CONNECTION.
5. PROVIDE ISOLATION KIT.
6. MOTOR IS UL 507 LISTED.
7. PROVIDE ROUND DUCT CONNECTOR.

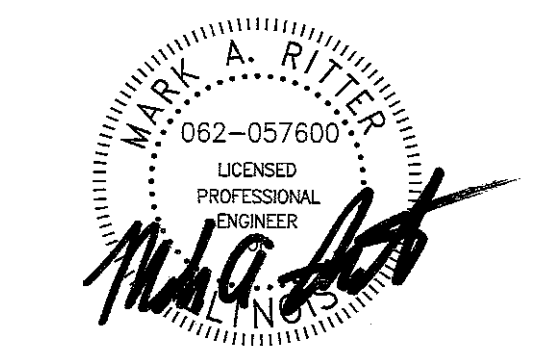
SCHEDULE OF DUCTLESS HEAT PUMPS UNITS									
MARK	MANUFACTURER AND MODEL NO.	MOUNTING STYLE	CAPACITY BTUH	SEER COP @ 17°	CFM	ELECTRICAL		REMARKS	
						MCA	VOLT/PH		
MSS-1	MITSUBISHI PKA-A24KA7	WALL	10,000-24,000	21.4 2.95	570-700	1	208-230/1	SEE NOTES	
MSSHP-1	MITSUBISHI PUZ-A24NH47					19	208-230/1		
MSS-2	MITSUBISHI PKA-A24KA7	WALL	10,000-24,000	21.4 2.95	570-700	1	208-230/1	SEE NOTES	
MSSHP-2	MITSUBISHI PUZ-A24NH47					19	208-230/1		
MSS-3	MITSUBISHI PKA-A24KA7	WALL	10,000-24,000	21.4 2.95	570-700	1	208-230/1	SEE NOTES	
MSSHP-4	MITSUBISHI PUZ-A24NH47					19	208-230/1		

- NOTES:
1. UNIT USES R-410a.
2. PROVIDE WIRED REMOTE CONTROLLER (PAR-40MAA).
3. PROVIDE LOW AMBIENT OPERATION WITH THE INSTALLATION OF LOW AMBIENT KIT (WIND BAFFLES).
4. PROVIDE MOUNTING RAILS FOR CONDENSING UNIT, 24" TALL MINIMUM.
5. PROVIDE CONDENSATE LIFT KIT.



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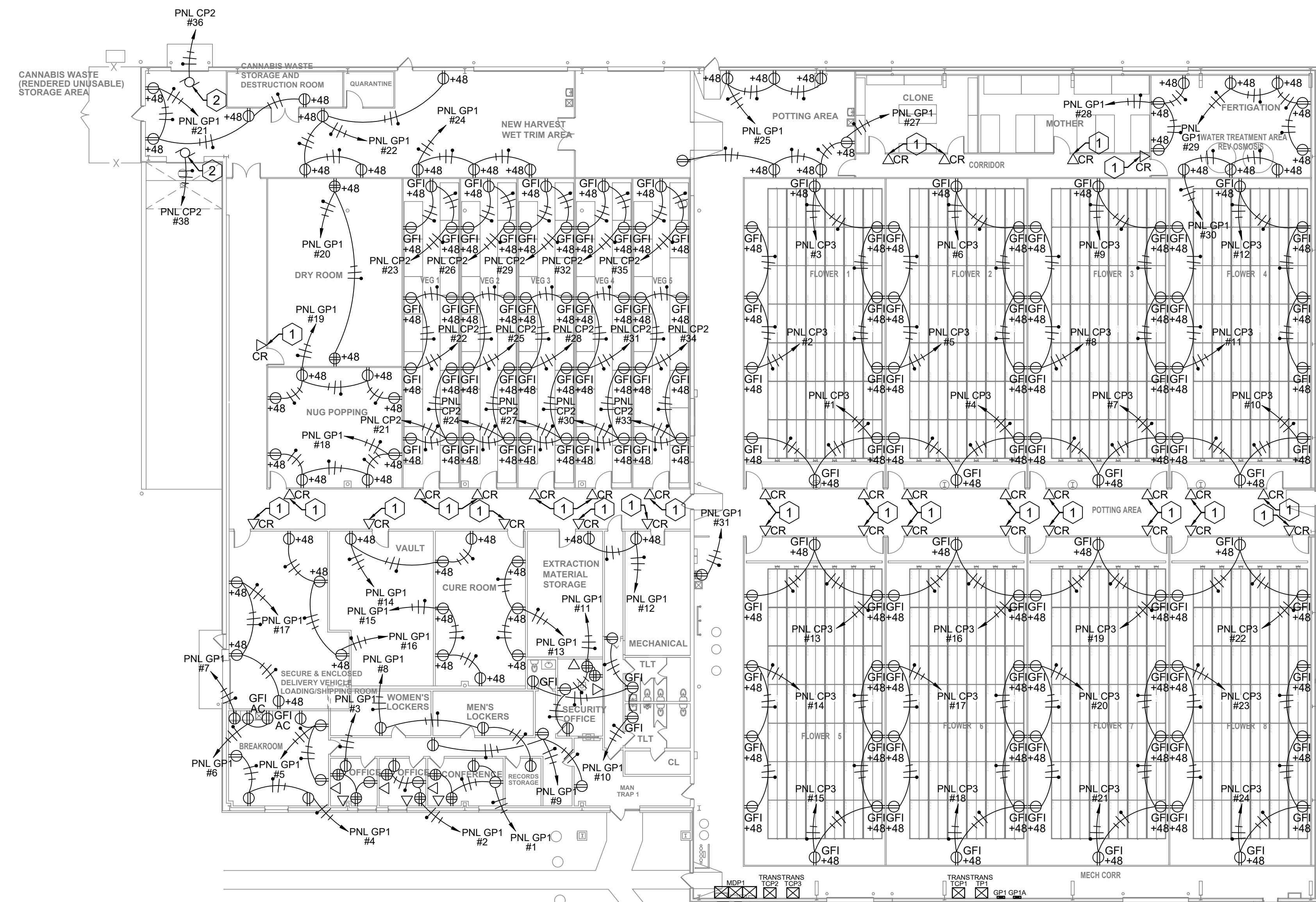
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- PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL PANELBOARDS.

ELECTRICAL KEYED (X) NOTES:

- INSTALL BLANK BOX AT NEW DOOR FOR CARD READER PROVIDED BY THE OWNERS REPRESENTATIVE. ROUTE A 3/4" PVC CONDUIT FROM BLANK BOX BACK UP WALL AS HIGH AS PRACTICAL. PROVIDE PULL STRING IN CONDUIT.
- PROVIDE TOGGLE TYPE DISCONNECT SWITCH AND ELECTRICAL CONNECTIONS FOR OVERHEAD DOOR OPERATOR. ROUTE WIRING TO OPERATOR AS REQUIRED.
- EXISTING PAD MOUNTED TRANSFORMER TO BE UPGRADED BY COM ED. NEW TRANSFORMER SHALL BE 3750 KVA, 277/480V, THREE PHASE.
- CT AND METERING IN ACCORDANCE WITH COM ED REQUIREMENTS.
- EXISTING PAD MOUNTED TRANSFORMER TO BE ABANDONED FOR THIS PHASE OF CONSTRUCTION. TRANSFORMER TO BE UPGRADED AS PART OF A FUTURE PHASE OF CONSTRUCTION.

ELECTRICAL SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
⊕	DUPLEX RECEPTACLE
⊕ GFI	GFI DUPLEX RECEPTACLE
⊕+48	DUPLEX RECEPTACLE INSTALLED 48" A.F.F.
⊕	QUADPLEX RECEPTACLE
▽	SINGLE GANG BACK BOX WITH 3/4" CONDUIT STUBBED TO ABOVE CEILING
⊠	ELECTRICAL PANEL
— — —	ELECTRICAL WIRING IN CONDUIT



1 ELECTRICAL - PLAN
E-1
1/16" = 1'-0"
NORTH

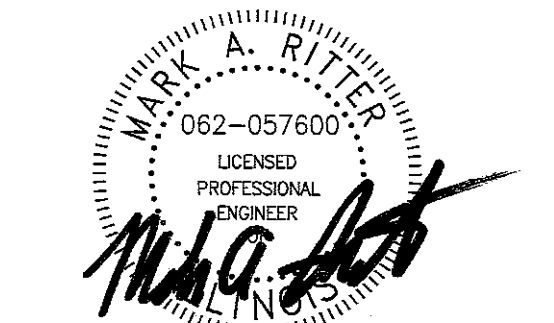
4 UTILITY TRANS 1

5 UTILITY TRANS 1



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ELECTRICAL PLAN

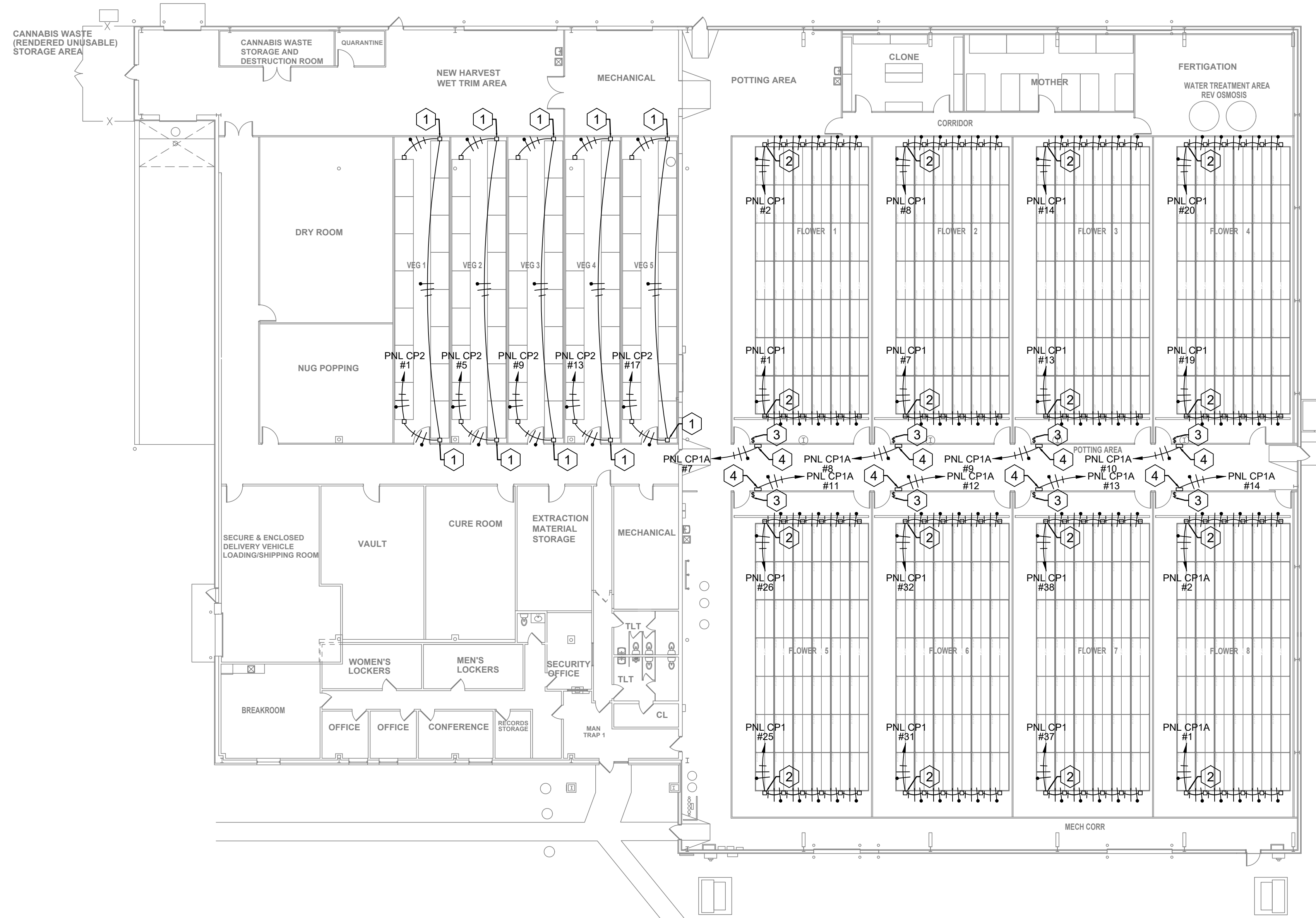
E-1

ELECTRICAL GENERAL NOTES:

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4. PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL PANELBOARDS.

ELECTRICAL KEYED (X) NOTES:

1. VERTICAL AIR SOLUTIONS FANS AT END OF RACK. EACH RACK HAS (1) FAN. PROVIDE WEATHERPROOF GFCI RECEPTACLE MOUNTED TO RACK. TYPICAL FOR THE TWO LOWER TIER OF RACKS IN THIS VEG ROOM. INSTALL (5) FANS ON A SINGLE 20A CIRCUIT.
2. VERTICAL AIR SOLUTIONS FANS AT END OF RACK. EACH RACK HAS (1) FAN. PROVIDE WEATHERPROOF GFCI RECEPTACLE MOUNTED TO RACK. TYPICAL FOR THE TWO LOWER TIER OF RACKS IN THIS FLOWER ROOM. INSTALL (5) FANS ON A SINGLE 20A CIRCUIT.
3. INSTALL SINGLE POLE SWITCH FOR CONTROL OF THE NIVOLA CIRCULATION FANS IN THIS ROOM.
4. PROVIDE 120V ELECTRICAL CONNECTIONS FOR LIGHTING SYSTEM CONTROL PANEL. COORDINATE EXACT LOCATION OF CONTROL PANEL PRIOR TO INSTALLATION.

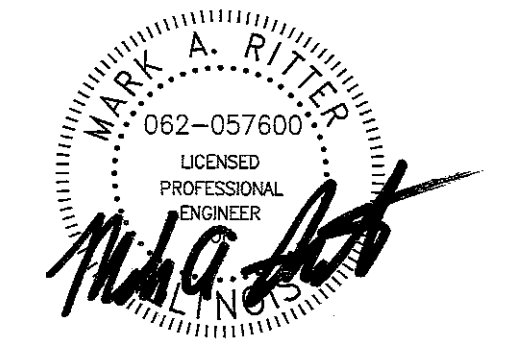


1 RACK FAN ELECTRICAL PLANS - TIER 1
E-1.1 1/16" = 1'-0"



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**RACK FAN
 ELECTRICAL
 PLAN - TIER 1**

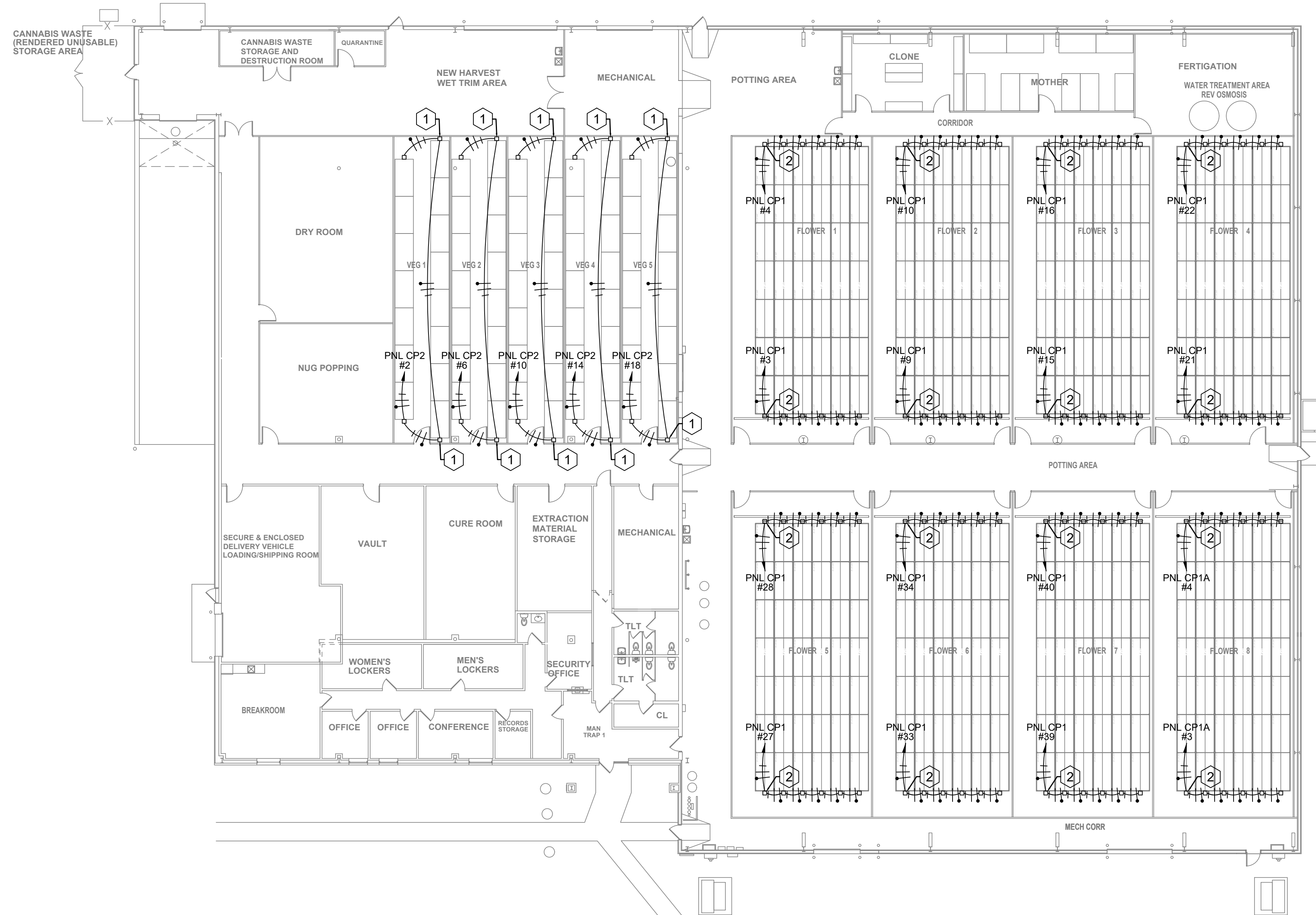
E-1.1

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4. PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL PANELBOARDS.

ELECTRICAL KEYED (X) NOTES:

1. VERTICAL AIR SOLUTIONS FANS AT END OF RACK. EACH RACK HAS (1) FAN. PROVIDE WEATHERPROOF GFCI RECEPTACLE MOUNTED TO RACK. TYPICAL FOR THE TWO LOWER TIER OF RACKS IN THIS VEG ROOM. INSTALL (5) FANS ON A SINGLE 20A CIRCUIT.
2. VERTICAL AIR SOLUTIONS FANS AT END OF RACK. EACH RACK HAS (1) FAN. PROVIDE WEATHERPROOF GFCI RECEPTACLE MOUNTED TO RACK. TYPICAL FOR THE TWO LOWER TIER OF RACKS IN THIS FLOWER ROOM. INSTALL (5) FANS ON A SINGLE 20A CIRCUIT.

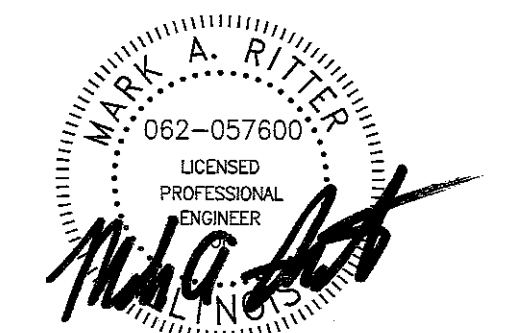


1 RACK FAN ELECTRICAL PLANS - TIER 2
E-1.2 1/16" = 1'-0"



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RACK FAN
 ELECTRICAL
 PLAN - TIER 2

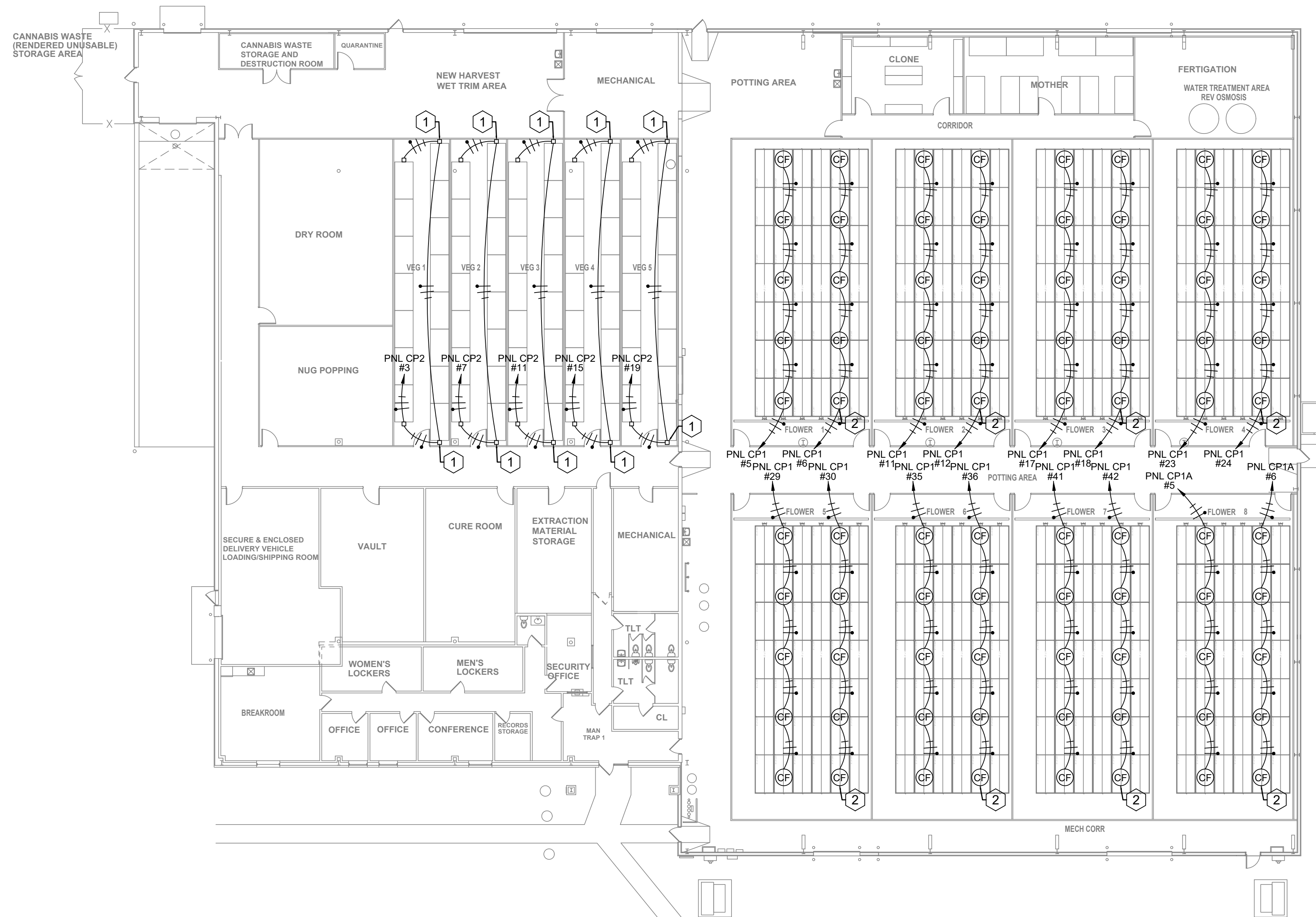
E-1.2

ELECTRICAL GENERAL NOTES:

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4. PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL PANELBOARDS.

ELECTRICAL KEYED (X) NOTES:

1. VERTICAL AIR SOLUTIONS FANS AT END OF RACK. EACH RACK HAS (1) FAN. PROVIDE WEATHERPROOF GFCI RECEPTACLE MOUNTED TO RACK. TYPICAL FOR THE TWO LOWER TIER OF RACKS IN THIS VEG ROOM. INSTALL (5) FANS ON A SINGLE 20A CIRCUIT.
2. NIVOLA CIRCULATION FAN, MODEL TVE-7 w/ V-9 FAN (120V) NIVOLATOR TO BE INSTALLED AT 27 FEET ABOVE FINISHED FLOOR. PROVIDE ELECTRICAL CONNECTIONS FOR FAN. TYPICAL OF ALL FANS IN THIS ROOM.



1 RACK FAN ELECTRICAL PLANS - TIER 3
E-1.3 1/16" = 1'-0"



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**RACK FAN
 ELECTRICAL
 PLAN - TIER 3**

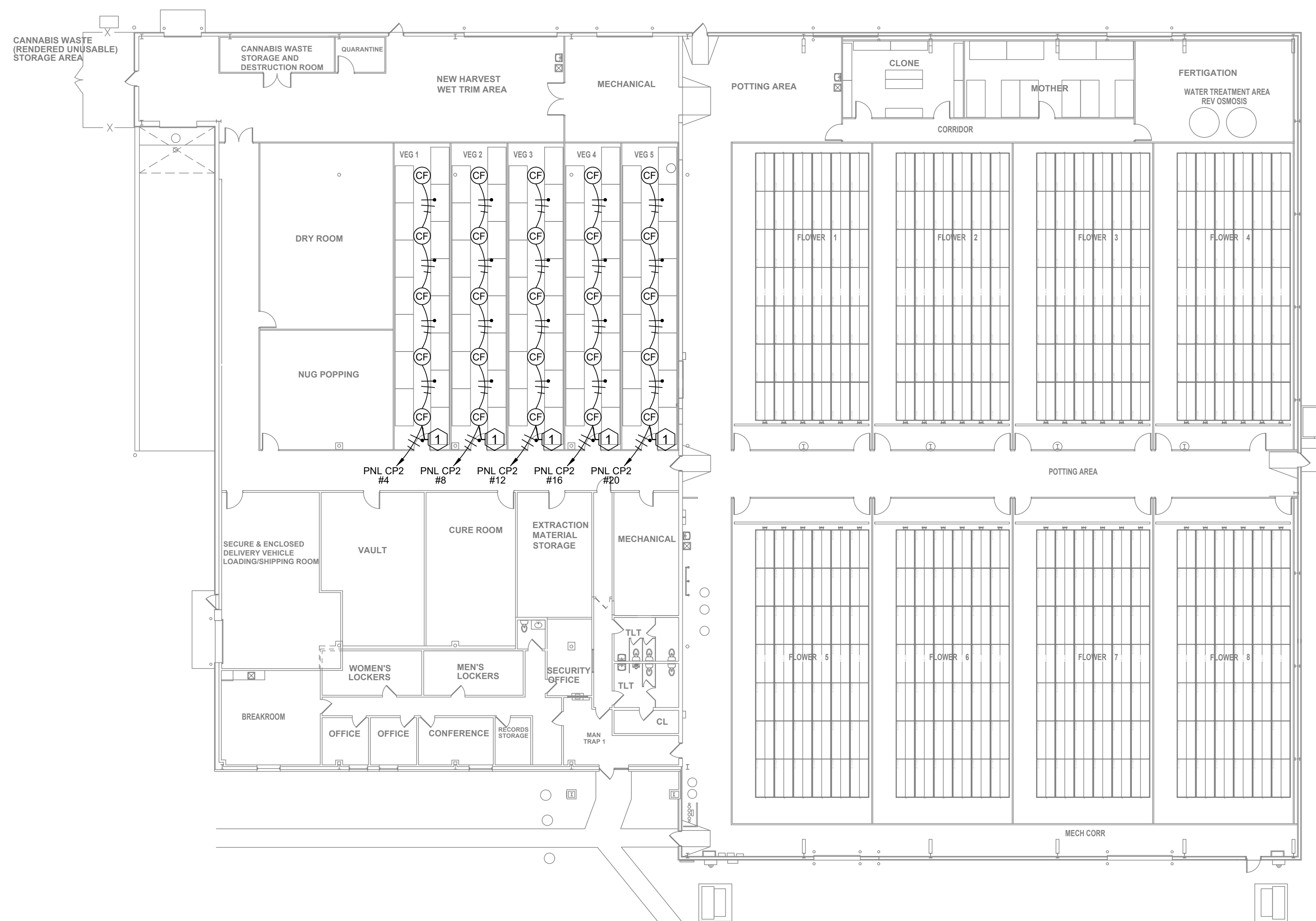
E-1.3

ELECTRICAL GENERAL NOTES:

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4. PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL PANELBOARDS.

ELECTRICAL KEYED (X) NOTES:

1. NIVOLA CIRCULATION FAN, MODEL TVE-7 w/ V-9 FAN (120V) NIVOLATOR TO BE INSTALLED AT 27 FEET ABOVE FINISHED FLOOR. PROVIDE ELECTRICAL CONNECTIONS FOR FAN. TYPICAL OF ALL FANS IN THIS ROOM.

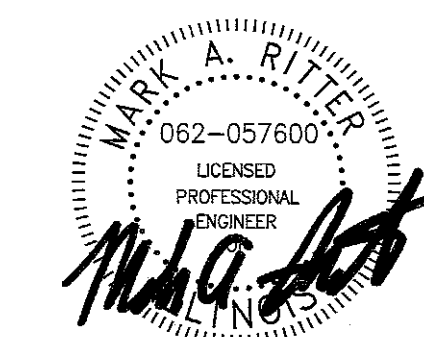


1 RACK FAN ELECTRICAL PLANS - TIER 4
E-1.4 1/16" = 1'-0"



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**RACK FAN
 ELECTRICAL
 PLAN - TIER 4**

E-1.4

ELECTRICAL GENERAL NOTES:

1. PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE.
2. ALL WIRING SHALL BE COPPER, #12 AWG MINIMUM UNLESS SPECIFIED OTHERWISE.
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4. PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL PANELBOARDS.

ELECTRICAL KEYED (X) NOTES:

1. PROVIDE GFI RECEPTACLE MOUNTED ON WALL APPROXIMATELY 96" A.F.F. FOR OWNER SUPPLIED OSCILLATING FAN. COORDINATE EXACT MOUNTING HEIGHT WITH OWNER. (TYPICAL OF ALL RECEPTACLES SHOWN IN THIS ROOM) .

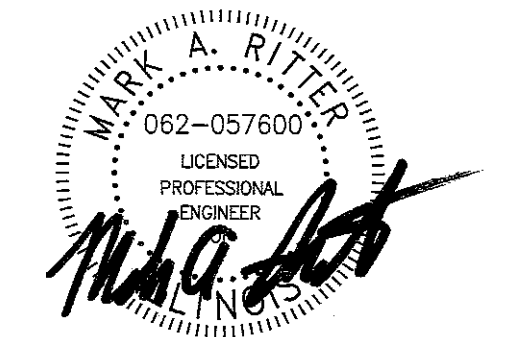


1 OSCILLATING FAN ELECTRICAL PLANS - TIER 2
E-1.5 1/16" = 1'-0"



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OSCILLATING FAN
 ELECTRICAL
 PLAN - TIER 2

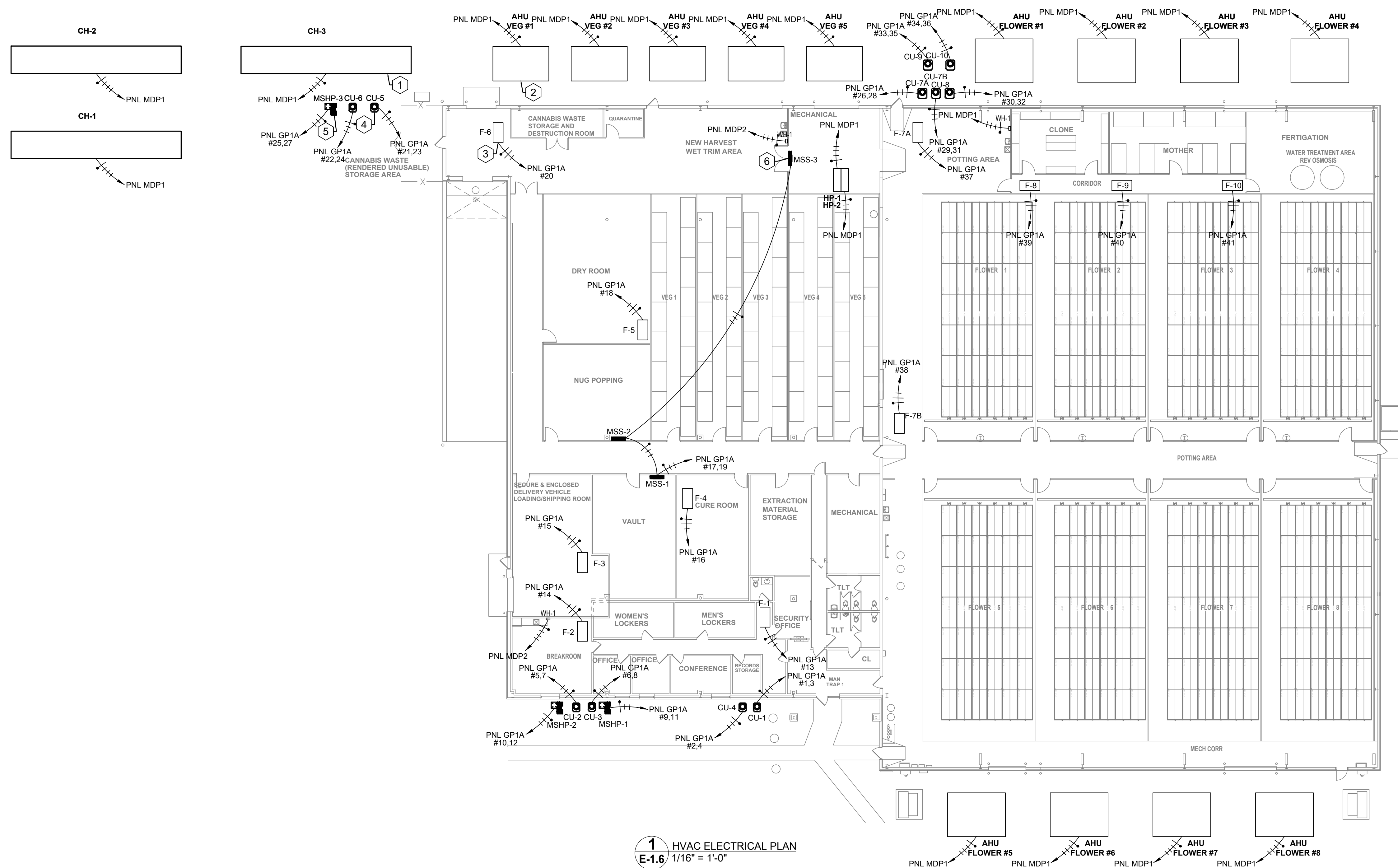
E-1.5

ELECTRICAL GENERAL NOTES:

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4. PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL PANELBOARDS.

ELECTRICAL KEYED (X) NOTES:

1. PROVIDE NEMA 3R DISCONNECT SWITCH AND ELECTRICAL CONNECTIONS FOR CHILLER. (TYPICAL OF ALL CHILLERS SHOWN ON THIS SHEET)
2. PROVIDE NEMA 3R DISCONNECT SWITCH AND ELECTRICAL CONNECTIONS FOR AIR HANDLING UNIT. (TYPICAL OF ALL AIR HANDLING UNITS SHOWN ON THIS SHEET)
3. PROVIDE TOGGLE TYPE DISCONNECT SWITCH AND ELECTRICAL CONNECTIONS FOR AFURNAAACE. (TYPICAL OF ALL FURNACES SHOWN ON THIS SHEET)
4. PROVIDE NEMA 3R DISCONNECT SWITCH AND ELECTRICAL CONNECTIONS FOR AIR HANDLING UNIT. (TYPICAL OF ALL CONDENSING UNITS SHOWN ON THIS SHEET)
5. PROVIDE NEMA 3R DISCONNECT SWITCH AND ELECTRICAL CONNECTIONS FOR HEAT PUMP. (TYPICAL OF ALL HEAT PUMPS SHOWN ON THIS SHEET)
6. PROVIDE DISCONNECT SWITCH AND ELECTRICAL CONNECTIONS FOR HEAT PUMP WALL CASSETTE. (TYPICAL OF ALL WALL CASSETTES SHOWN ON THIS SHEET)

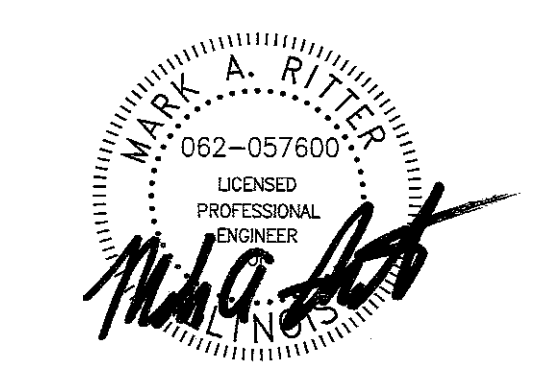


1 HVAC ELECTRICAL PLAN
E-1.6 1/16" = 1'-0"



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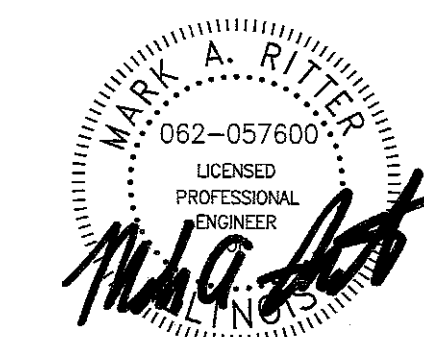
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HVAC
ELECTRICAL
PLAN

E-1.6



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11/30/2023

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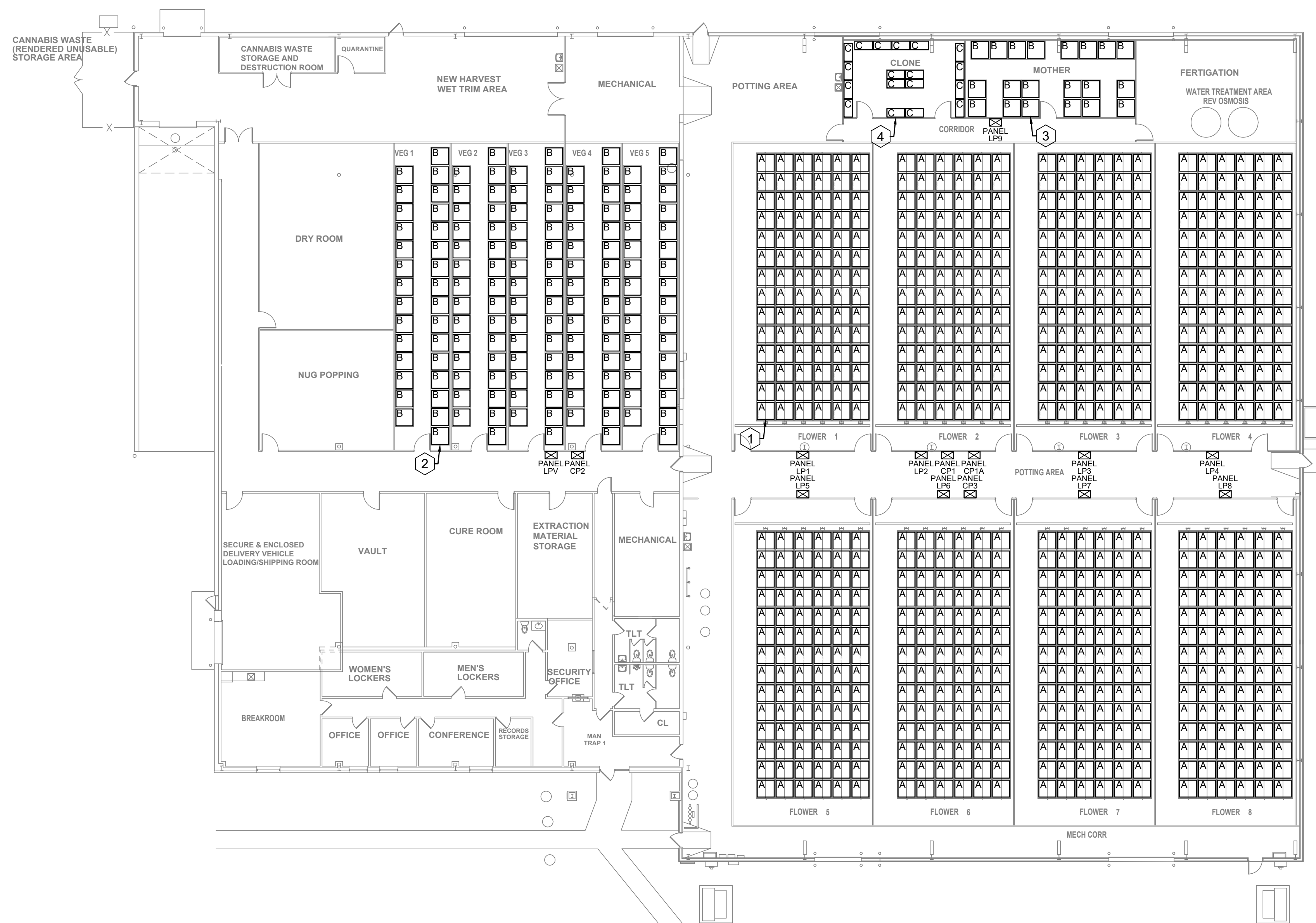
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GROW LIGHTING
PLAN - TIER 1

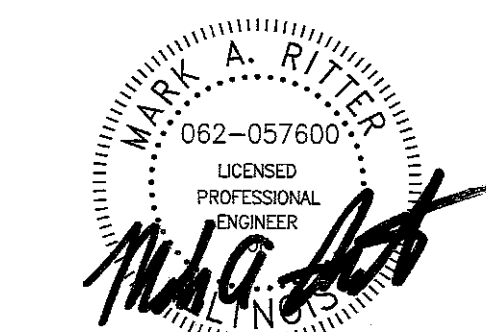
E-2.1

ELECTRICAL KEYED NOTES:

1. TYPE "A" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN FLOWER ROOM.
2. TYPE "B" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN VEG ROOM.
3. TYPE "B" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN MOTHER ROOM.
4. TYPE "C" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN CLONE ROOM.



1 GROW LIGHTING PLAN - TIER 1
E-2.1 1/16" = 1'-0"



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DRAWN CDB

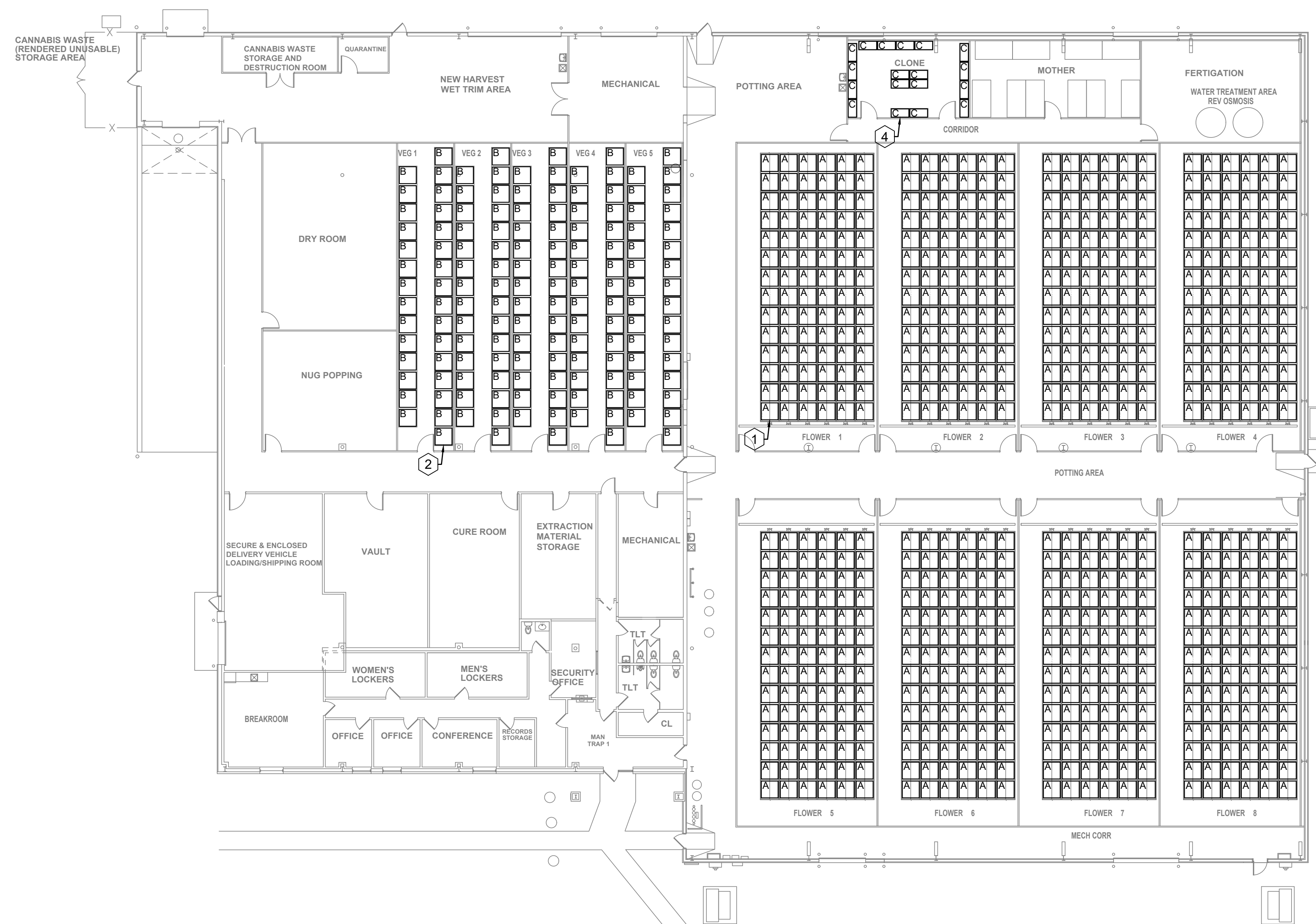
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GROW LIGHTING
PLAN - TIER 2

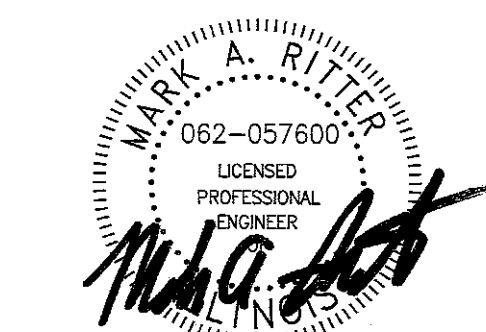
E-2.2

ELECTRICAL KEYED NOTES:

1. TYPE "A" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN FLOWER ROOM.
2. TYPE "B" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN VEG ROOM.
3. NOT USED..
4. TYPE "C" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN CLONE ROOM.



1 GROW LIGHTING PLAN - TIER 2
E-2.2 1/16" = 1'-0"



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12/10/2021

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11/30/2023

LICENSE EXPIRES

GRI Holdings, LLC
740 Schneider
South Elgin, IL 60177

PROJECT NO. R21-049

DATE 12/10/21

DRAWN CDB

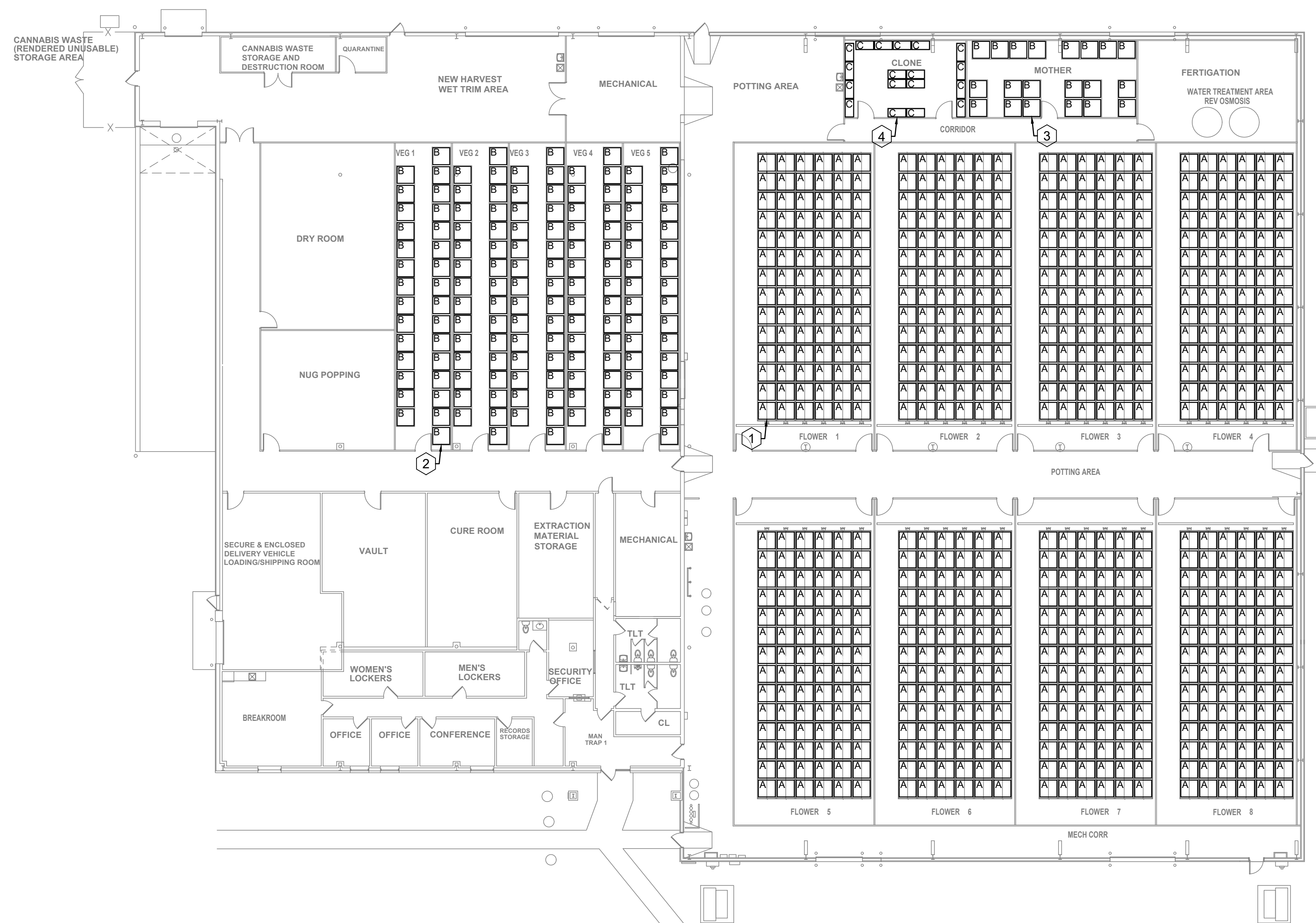
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GROW LIGHTING
PLAN - TIER 3

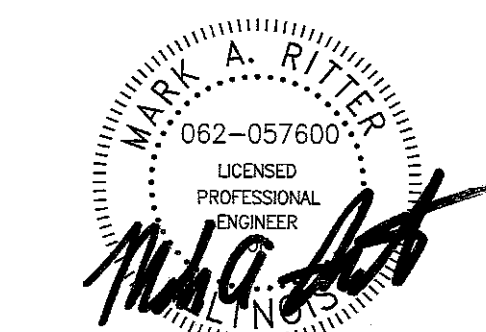
E-2.3

ELECTRICAL KEYED NOTES:

1. TYPE "A" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN FLOWER ROOM.
2. TYPE "B" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN VEG ROOM.
3. TYPE "B" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN MOTHER ROOM.
4. TYPE "C" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN CLONE ROOM.



1 GROW LIGHTING PLAN - TIER 3
E-2.3 1/16" = 1'-0"



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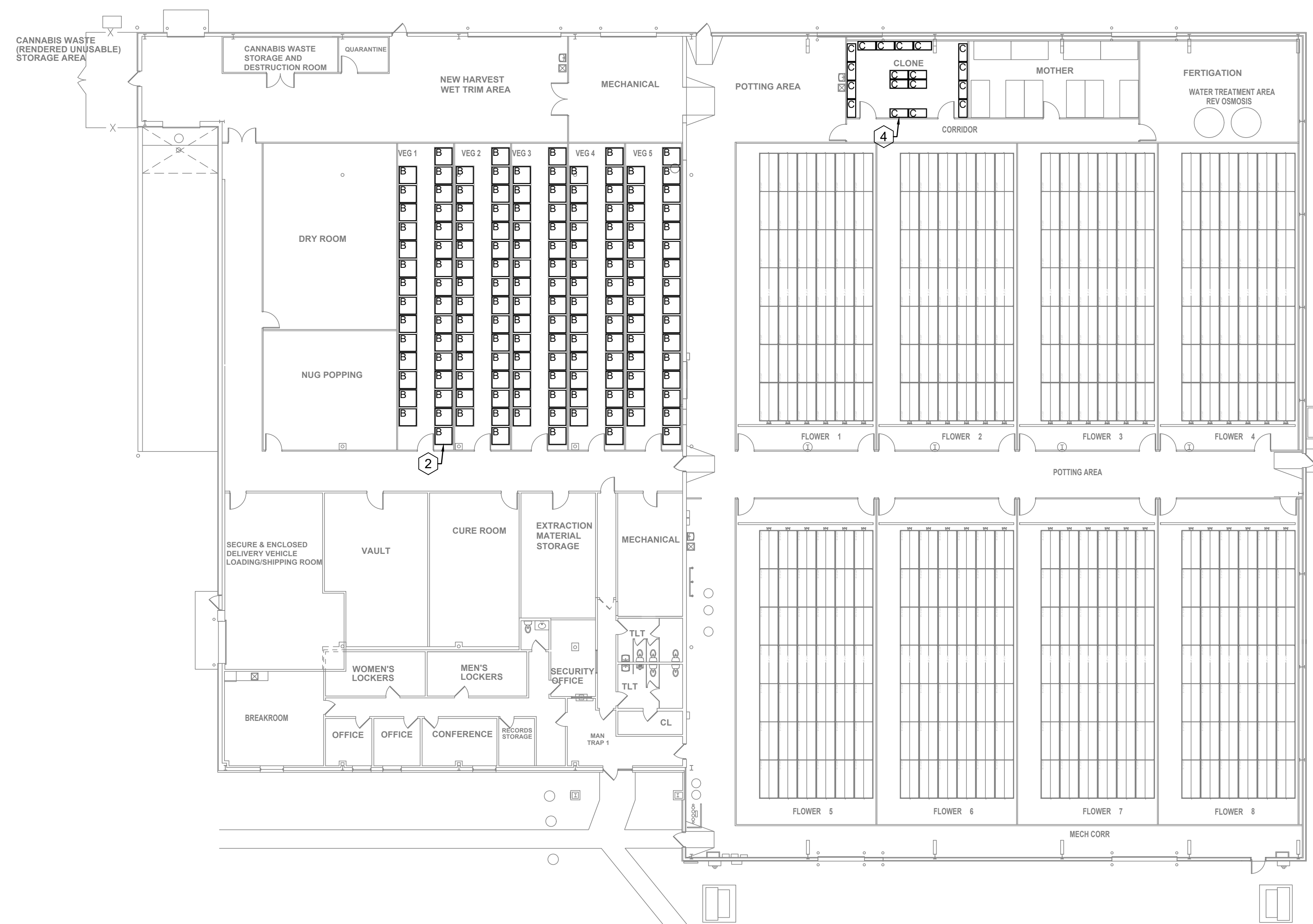
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740 Schneider
South Elgin, IL 60177

ELECTRICAL KEYED (X) NOTES:

1. NOT USED.
2. TYPE "B" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN VEG ROOM.
3. NOT USED.
4. TYPE "C" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN CLONE ROOM.

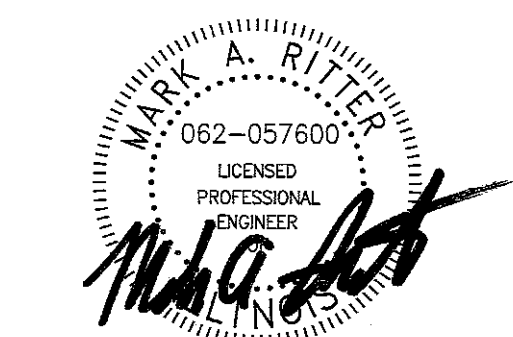


1 GROW LIGHTING PLAN - TIER 4
E-2.4 1/16" = 1'-0"

PROJECT NO.	R21-049
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**GROW LIGHTING
PLAN - TIER 4**

E-2.4



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South Elgin, IL 60177

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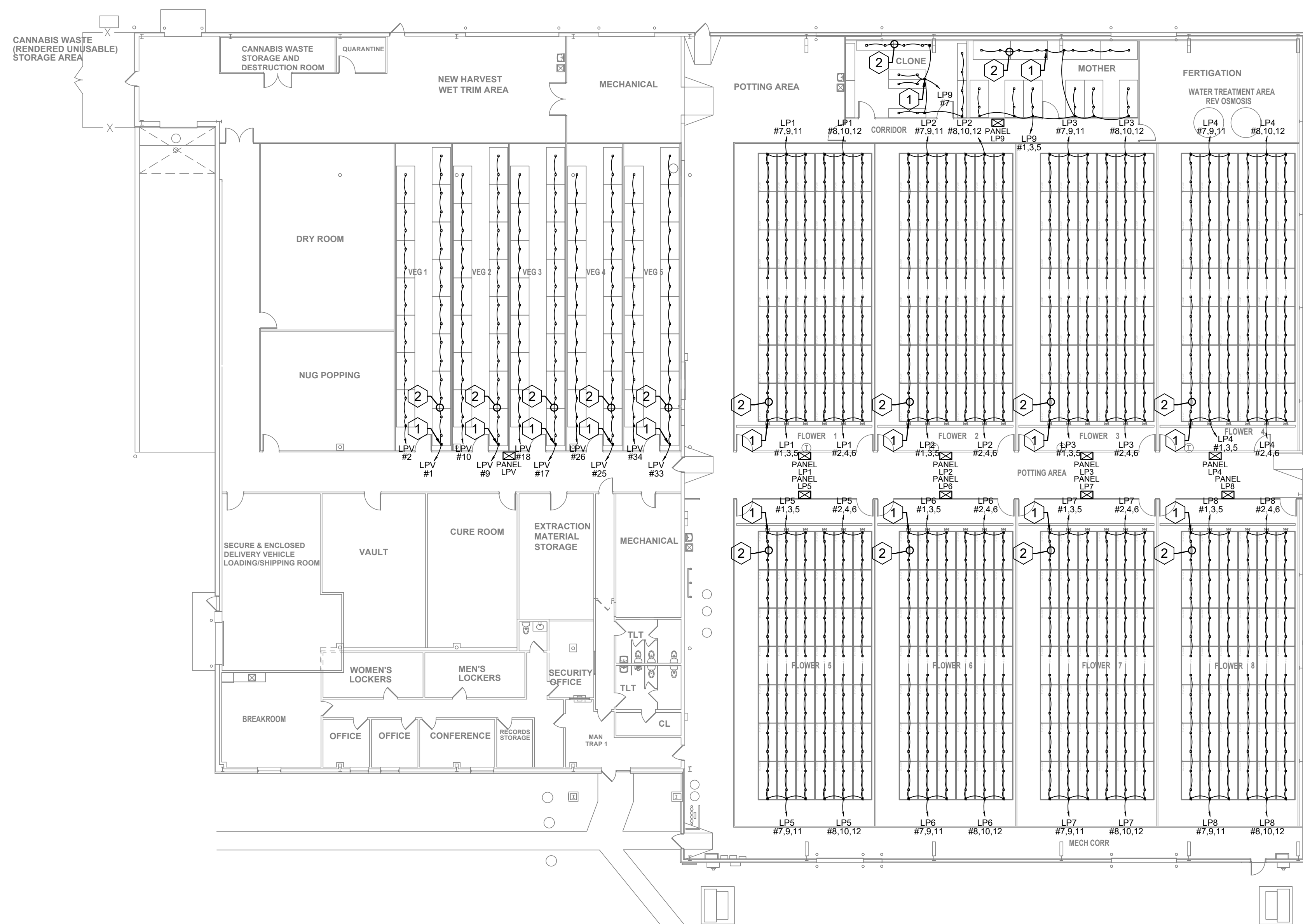
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GROW LIGHTING
WIRING PLAN
TIER 1

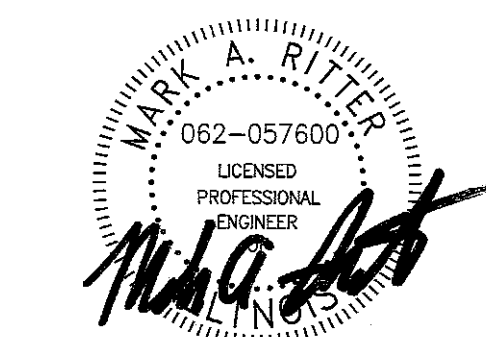
E-2.1A

ELECTRICAL KEYED (X) NOTES:

1. PROVIDE JUNCTION BOX MOUNTED TO RACK. WIRING SHALL BE CONNECTED FROM LIGHT FIXTURE TO THE JUNCTION BOX WITH FLUENCE FLEX WIRING CONNECTOR. (TYPICAL OF ALL LIGHTS IN FLOWER, VEG, MOTHER AND CLONE ROOMS) .
2. WIRING BETWEEN LIGHTS SHALL BE FLUENCE FLEX WIRING CONNECTORS. (TYPICAL OF ALL LIGHTS IN FLOWER, VEG, MOTHER AND CLONE ROOMS) .



1 GROW LIGHTING WIRING PLAN - TIER 1
E-2.1A 1/16" = 1'-0"



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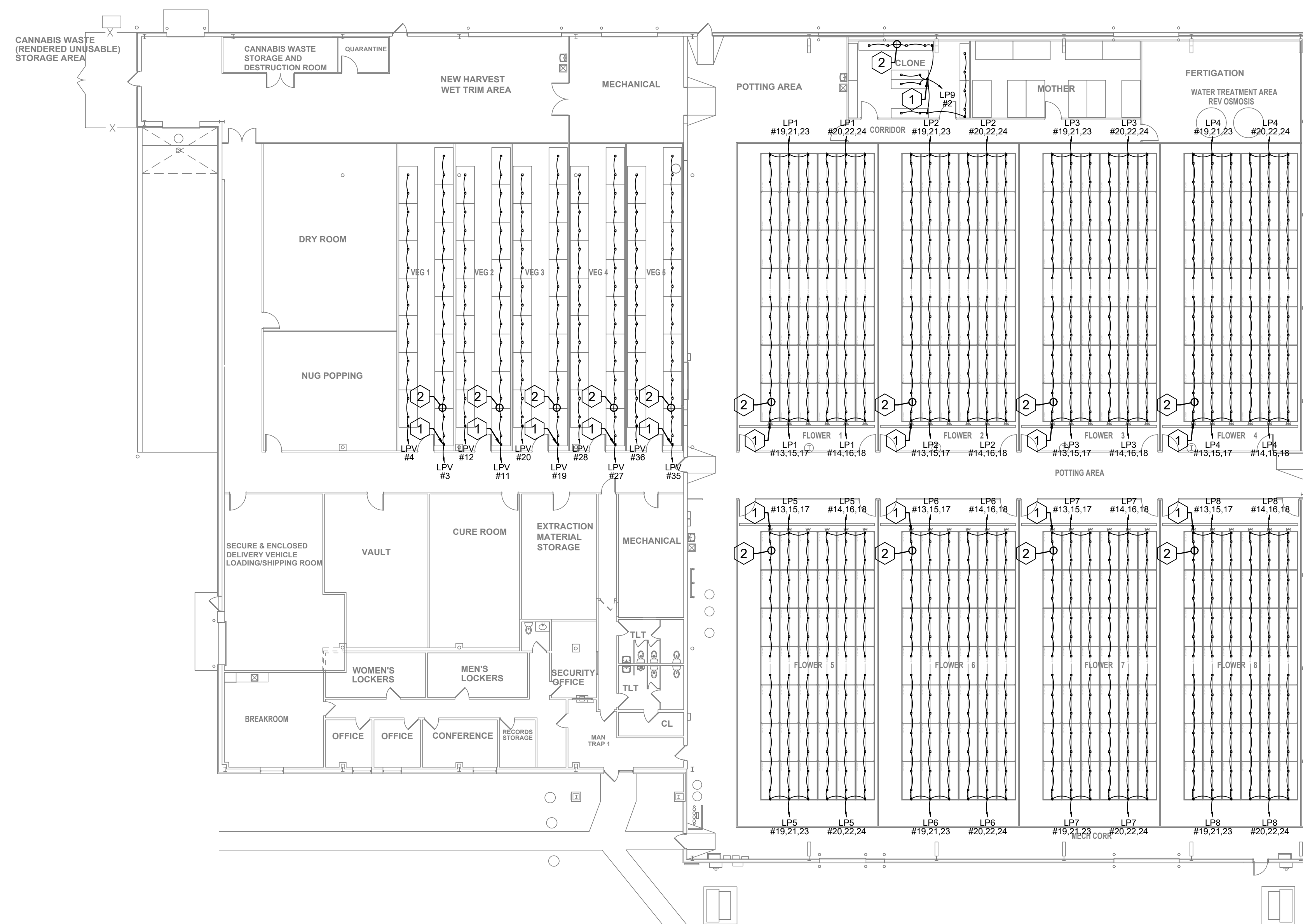
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740 Schneider
South Elgin, IL 60177

ELECTRICAL KEYED (X) NOTES:

1. PROVIDE JUNCTION BOX MOUNTED TO RACK. WIRING SHALL BE CONNECTED FROM LIGHT FIXTURE TO THE JUNCTION BOX WITH FLUENCE FLEX WIRING CONNECTOR. (TYPICAL OF ALL LIGHTS IN FLOWER, VEG, MOTHER AND CLONE ROOMS) .
2. WIRING BETWEEN LIGHTS SHALL BE FLUENCE FLEX WIRING CONNECTORS. (TYPICAL OF ALL LIGHTS IN FLOWER, VEG, MOTHER AND CLONE ROOMS) .



1 GROW LIGHTING WIRING PLAN - TIER 2
E-2.2A 1/16" = 1'-0"

PROJECT NO. R21-049

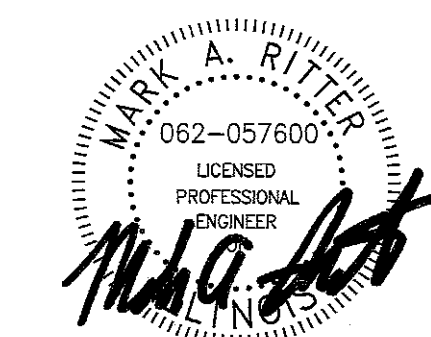
DATE 12/10/21

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CHECKED KDW

GROW LIGHTING
WIRING PLAN
TIER 2

E-2.2A



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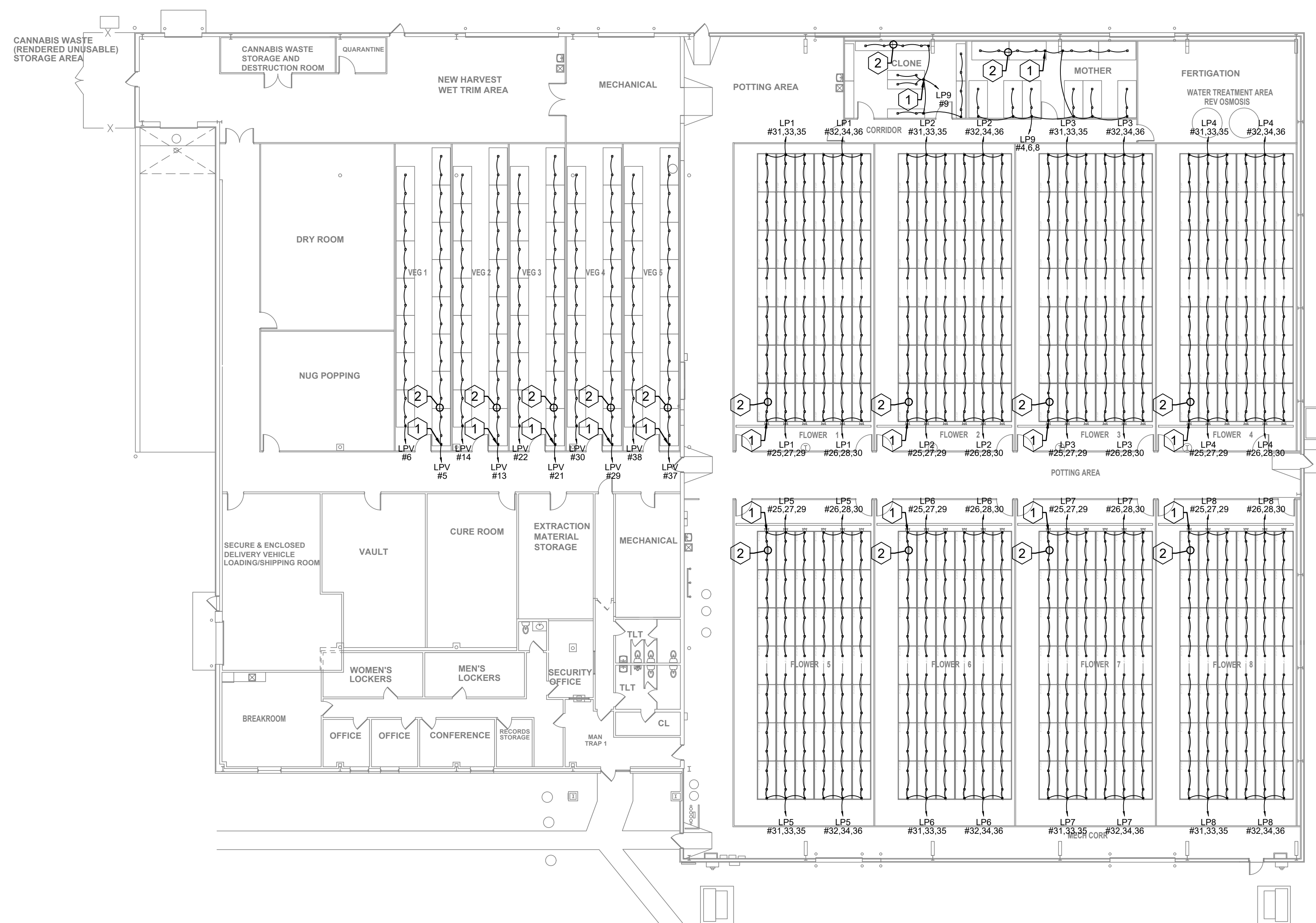
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740 Schneider
South Elgin, IL 60177

ELECTRICAL KEYED (X) NOTES:

1. PROVIDE JUNCTION BOX MOUNTED TO RACK. WIRING SHALL BE CONNECTED FROM LIGHT FIXTURE TO THE JUNCTION BOX WITH FLUENCE FLEX WIRING CONNECTOR. (TYPICAL OF ALL LIGHTS IN FLOWER, VEG, MOTHER AND CLONE ROOMS)
2. WIRING BETWEEN LIGHTS SHALL BE FLUENCE FLEX WIRING CONNECTORS. (TYPICAL OF ALL LIGHTS IN FLOWER, VEG, MOTHER AND CLONE ROOMS)



1 GROW LIGHTING WIRING PLAN - TIER 3
E-2.3A 1/16" = 1'-0"

PROJECT NO. R21-049

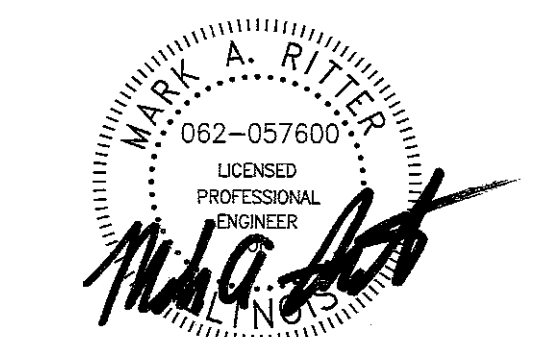
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**GROW LIGHTING
WIRING PLAN
TIER 3**

E-2.3A



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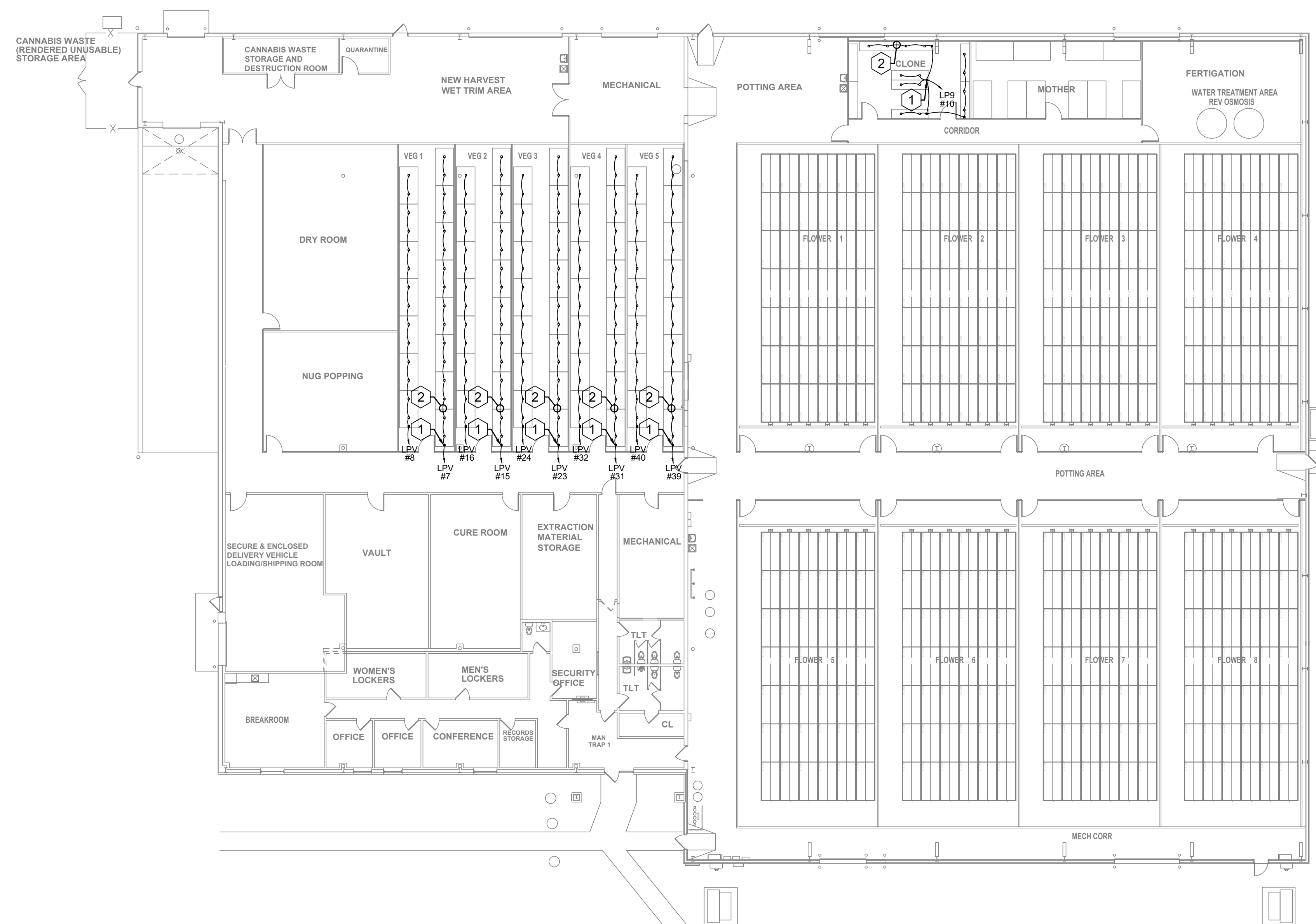
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GROW LIGHTING
WIRING PLAN
TIER 4

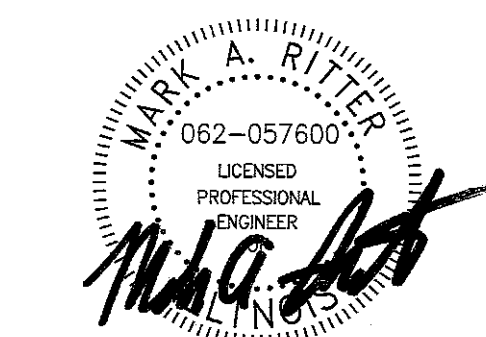
E-2.4A

ELECTRICAL KEYED NOTES:

1. PROVIDE JUNCTION BOX MOUNTED TO RACK. WIRING SHALL BE CONNECTED FROM LIGHT FIXTURE TO THE JUNCTION BOX WITH FLUENCE FLEX WIRING CONNECTOR. (TYPICAL OF ALL LIGHTS IN FLOWER, VEG, MOTHER AND CLONE ROOMS) .
2. WIRING BETWEEN LIGHTS SHALL BE FLUENCE FLEX WIRING CONNECTORS. (TYPICAL OF ALL LIGHTS IN FLOWER, VEG, MOTHER AND CLONE ROOMS) .



1 GROW LIGHTING WIRING PLAN - TIER 4
E-2.4A 1/16" = 1'-0"



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**ELECTRICAL
SCHEDULES**

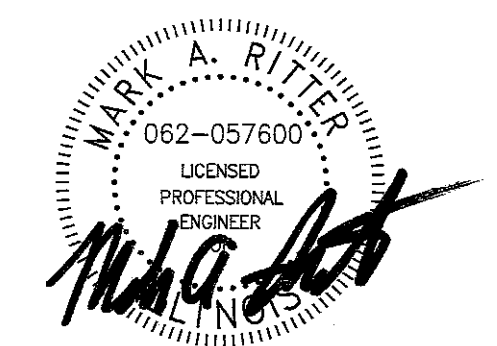
E-3

PANEL SCHEDULE - PANEL LP1			
TAG: PANEL LP1 SURFACE MOUNTED PANELBOARD		277/480 VOLTS 3 PH 4 WIRE 400 AMPS MAIN LUG ONLY	
CIRCUIT DESCRIPTION	AMP	AMP	CIRCUIT DESCRIPTION
FLOWER 1 - TIER 1 LIGHTS	20	1	FLOWER 1 - TIER 1 LIGHTS
FLOWER 1 - TIER 1 LIGHTS	20	3	FLOWER 1 - TIER 1 LIGHTS
FLOWER 1 - TIER 1 LIGHTS	20	5	FLOWER 1 - TIER 1 LIGHTS
FLOWER 1 - TIER 1 LIGHTS	20	7	FLOWER 1 - TIER 1 LIGHTS
FLOWER 1 - TIER 1 LIGHTS	20	9	FLOWER 1 - TIER 1 LIGHTS
FLOWER 1 - TIER 1 LIGHTS	20	11	FLOWER 1 - TIER 1 LIGHTS
FLOWER 1 - TIER 2 LIGHTS	20	13	FLOWER 1 - TIER 2 LIGHTS
FLOWER 1 - TIER 2 LIGHTS	20	15	FLOWER 1 - TIER 2 LIGHTS
FLOWER 1 - TIER 2 LIGHTS	20	17	FLOWER 1 - TIER 2 LIGHTS
FLOWER 1 - TIER 2 LIGHTS	20	19	FLOWER 1 - TIER 2 LIGHTS
FLOWER 1 - TIER 2 LIGHTS	20	21	FLOWER 1 - TIER 2 LIGHTS
FLOWER 1 - TIER 2 LIGHTS	20	23	FLOWER 1 - TIER 2 LIGHTS
FLOWER 1 - TIER 3 LIGHTS	20	25	FLOWER 1 - TIER 3 LIGHTS
FLOWER 1 - TIER 3 LIGHTS	20	27	FLOWER 1 - TIER 3 LIGHTS
FLOWER 1 - TIER 3 LIGHTS	20	29	FLOWER 1 - TIER 3 LIGHTS
FLOWER 1 - TIER 3 LIGHTS	20	31	FLOWER 1 - TIER 3 LIGHTS
FLOWER 1 - TIER 3 LIGHTS	20	33	FLOWER 1 - TIER 3 LIGHTS
FLOWER 1 - TIER 3 LIGHTS	20	35	FLOWER 1 - TIER 3 LIGHTS
SPARE	20	37	SPARE
SPARE	20	39	SPARE
SPARE	20	41	SPARE
		PANEL RATING - 35 KAIC	

PANEL SCHEDULE - PANEL LP2			
TAG: PANEL LP2 SURFACE MOUNTED PANELBOARD		277/480 VOLTS 3 PH 4 WIRE 400 AMPS MAIN LUG ONLY	
CIRCUIT DESCRIPTION	AMP	AMP	CIRCUIT DESCRIPTION
FLOWER 2 - TIER 1 LIGHTS	20	1	FLOWER 2 - TIER 1 LIGHTS
FLOWER 2 - TIER 1 LIGHTS	20	3	FLOWER 2 - TIER 1 LIGHTS
FLOWER 2 - TIER 1 LIGHTS	20	5	FLOWER 2 - TIER 1 LIGHTS
FLOWER 2 - TIER 1 LIGHTS	20	7	FLOWER 2 - TIER 1 LIGHTS
FLOWER 2 - TIER 1 LIGHTS	20	9	FLOWER 2 - TIER 1 LIGHTS
FLOWER 2 - TIER 1 LIGHTS	20	11	FLOWER 2 - TIER 1 LIGHTS
FLOWER 2 - TIER 2 LIGHTS	20	13	FLOWER 2 - TIER 2 LIGHTS
FLOWER 2 - TIER 2 LIGHTS	20	15	FLOWER 2 - TIER 2 LIGHTS
FLOWER 2 - TIER 2 LIGHTS	20	17	FLOWER 2 - TIER 2 LIGHTS
FLOWER 2 - TIER 2 LIGHTS	20	19	FLOWER 2 - TIER 2 LIGHTS
FLOWER 2 - TIER 2 LIGHTS	20	21	FLOWER 2 - TIER 2 LIGHTS
FLOWER 2 - TIER 2 LIGHTS	20	23	FLOWER 2 - TIER 2 LIGHTS
FLOWER 2 - TIER 3 LIGHTS	20	25	FLOWER 2 - TIER 3 LIGHTS
FLOWER 2 - TIER 3 LIGHTS	20	27	FLOWER 2 - TIER 3 LIGHTS
FLOWER 2 - TIER 3 LIGHTS	20	29	FLOWER 2 - TIER 3 LIGHTS
FLOWER 2 - TIER 3 LIGHTS	20	31	FLOWER 2 - TIER 3 LIGHTS
FLOWER 2 - TIER 3 LIGHTS	20	33	FLOWER 2 - TIER 3 LIGHTS
FLOWER 2 - TIER 3 LIGHTS	20	35	FLOWER 2 - TIER 3 LIGHTS
SPARE	20	37	SPARE
SPARE	20	39	SPARE
SPARE	20	41	SPARE
		PANEL RATING - 35 KAIC	

PANEL SCHEDULE - PANEL LP3			
TAG: PANEL LP3 SURFACE MOUNTED PANELBOARD		277/480 VOLTS 3 PH 4 WIRE 400 AMPS MAIN LUG ONLY	
CIRCUIT DESCRIPTION	AMP	AMP	CIRCUIT DESCRIPTION
FLOWER 3 - TIER 1 LIGHTS	20	1	FLOWER 3 - TIER 1 LIGHTS
FLOWER 3 - TIER 1 LIGHTS	20	3	FLOWER 3 - TIER 1 LIGHTS
FLOWER 3 - TIER 1 LIGHTS	20	5	FLOWER 3 - TIER 1 LIGHTS
FLOWER 3 - TIER 1 LIGHTS	20	7	FLOWER 3 - TIER 1 LIGHTS
FLOWER 3 - TIER 1 LIGHTS	20	9	FLOWER 3 - TIER 1 LIGHTS
FLOWER 3 - TIER 1 LIGHTS	20	11	FLOWER 3 - TIER 1 LIGHTS
FLOWER 3 - TIER 2 LIGHTS	20	13	FLOWER 3 - TIER 2 LIGHTS
FLOWER 3 - TIER 2 LIGHTS	20	15	FLOWER 3 - TIER 2 LIGHTS
FLOWER 3 - TIER 2 LIGHTS	20	17	FLOWER 3 - TIER 2 LIGHTS
FLOWER 3 - TIER 2 LIGHTS	20	19	FLOWER 3 - TIER 2 LIGHTS
FLOWER 3 - TIER 2 LIGHTS	20	21	FLOWER 3 - TIER 2 LIGHTS
FLOWER 3 - TIER 2 LIGHTS	20	23	FLOWER 3 - TIER 2 LIGHTS
FLOWER 3 - TIER 3 LIGHTS	20	25	FLOWER 3 - TIER 3 LIGHTS
FLOWER 3 - TIER 3 LIGHTS	20	27	FLOWER 3 - TIER 3 LIGHTS
FLOWER 3 - TIER 3 LIGHTS	20	29	FLOWER 3 - TIER 3 LIGHTS
FLOWER 3 - TIER 3 LIGHTS	20	31	FLOWER 3 - TIER 3 LIGHTS
FLOWER 3 - TIER 3 LIGHTS	20	33	FLOWER 3 - TIER 3 LIGHTS
FLOWER 3 - TIER 3 LIGHTS	20	35	FLOWER 3 - TIER 3 LIGHTS
SPARE	20	37	SPARE
SPARE	20	39	SPARE
SPARE	20	41	SPARE
		PANEL RATING - 35 KAIC	

PANEL SCHEDULE - PANEL LP4			
TAG: PANEL LP4 SURFACE MOUNTED PANELBOARD		277/480 VOLTS 3 PH 4 WIRE 400 AMPS MAIN LUG ONLY	
CIRCUIT DESCRIPTION	AMP	AMP	CIRCUIT DESCRIPTION
FLOWER 4 - TIER 1 LIGHTS	20	1	FLOWER 4 - TIER 1 LIGHTS
FLOWER 4 - TIER 1 LIGHTS	20	3	FLOWER 4 - TIER 1 LIGHTS
FLOWER 4 - TIER 1 LIGHTS	20	5	FLOWER 4 - TIER 1 LIGHTS
FLOWER 4 - TIER 1 LIGHTS	20	7	FLOWER 4 - TIER 1 LIGHTS
FLOWER 4 - TIER 1 LIGHTS	20	9	FLOWER 4 - TIER 1 LIGHTS
FLOWER 4 - TIER 1 LIGHTS	20	11	FLOWER 4 - TIER 1 LIGHTS
FLOWER 4 - TIER 2 LIGHTS	20	13	FLOWER 4 - TIER 2 LIGHTS
FLOWER 4 - TIER 2 LIGHTS	20	15	FLOWER 4 - TIER 2 LIGHTS
FLOWER 4 - TIER 2 LIGHTS	20	17	FLOWER 4 - TIER 2 LIGHTS
FLOWER 4 - TIER 2 LIGHTS	20	19	FLOWER 4 - TIER 2 LIGHTS
FLOWER 4 - TIER 2 LIGHTS	20	21	FLOWER 4 - TIER 2 LIGHTS
FLOWER 4 - TIER 2 LIGHTS	20	23	FLOWER 4 - TIER 2 LIGHTS
FLOWER 4 - TIER 3 LIGHTS	20	25	FLOWER 4 - TIER 3 LIGHTS
FLOWER 4 - TIER 3 LIGHTS	20	27	FLOWER 4 - TIER 3 LIGHTS
FLOWER 4 - TIER 3 LIGHTS	20	29	FLOWER 4 - TIER 3 LIGHTS
FLOWER 4 - TIER 3 LIGHTS	20	31	FLOWER 4 - TIER 3 LIGHTS
FLOWER 4 - TIER 3 LIGHTS	20	33	FLOWER 4 - TIER 3 LIGHTS
FLOWER 4 - TIER 3 LIGHTS	20	35	FLOWER 4 - TIER 3 LIGHTS
SPARE	20	37	SPARE
SPARE	20	39	SPARE
SPARE	20	41	SPARE
		PANEL RATING - 35 KAIC	



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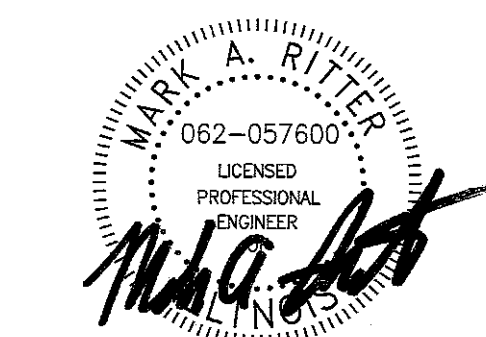
E-3.1

PANEL SCHEDULE - PANEL LP5			
TAG: PANEL LP5 SURFACE MOUNTED PANELBOARD		A B C	277/480 VOLTS 3 PH 4 WIRE 400 AMPS MAIN LUG ONLY
CIRCUIT DESCRIPTION	AMP		AMP CIRCUIT DESCRIPTION
FLOWER 5 - TIER 1 LIGHTS	20	1	20 FLOWER 5 - TIER 1 LIGHTS
FLOWER 5 - TIER 1 LIGHTS	20	3	20 FLOWER 5 - TIER 1 LIGHTS
FLOWER 5 - TIER 1 LIGHTS	20	5	20 FLOWER 5 - TIER 1 LIGHTS
FLOWER 5 - TIER 1 LIGHTS	20	7	20 FLOWER 5 - TIER 1 LIGHTS
FLOWER 5 - TIER 1 LIGHTS	20	9	20 FLOWER 5 - TIER 1 LIGHTS
FLOWER 5 - TIER 1 LIGHTS	20	11	20 FLOWER 5 - TIER 1 LIGHTS
FLOWER 5 - TIER 2 LIGHTS	20	13	20 FLOWER 5 - TIER 2 LIGHTS
FLOWER 5 - TIER 2 LIGHTS	20	15	20 FLOWER 5 - TIER 2 LIGHTS
FLOWER 5 - TIER 2 LIGHTS	20	17	20 FLOWER 5 - TIER 2 LIGHTS
FLOWER 5 - TIER 2 LIGHTS	20	19	20 FLOWER 5 - TIER 2 LIGHTS
FLOWER 5 - TIER 2 LIGHTS	20	21	20 FLOWER 5 - TIER 2 LIGHTS
FLOWER 5 - TIER 2 LIGHTS	20	23	20 FLOWER 5 - TIER 2 LIGHTS
FLOWER 5 - TIER 3 LIGHTS	20	25	20 FLOWER 5 - TIER 3 LIGHTS
FLOWER 5 - TIER 3 LIGHTS	20	27	20 FLOWER 5 - TIER 3 LIGHTS
FLOWER 5 - TIER 3 LIGHTS	20	29	20 FLOWER 5 - TIER 3 LIGHTS
FLOWER 5 - TIER 3 LIGHTS	20	31	20 FLOWER 5 - TIER 3 LIGHTS
FLOWER 5 - TIER 3 LIGHTS	20	33	20 FLOWER 5 - TIER 3 LIGHTS
FLOWER 5 - TIER 3 LIGHTS	20	35	20 FLOWER 5 - TIER 3 LIGHTS
SPARE	20	37	20 SPARE
SPARE	20	39	20 SPARE
SPARE	20	41	20 SPARE
		G N	PANEL RATING - 35 KAIC

PANEL SCHEDULE - PANEL LP6			
TAG: PANEL LP6 SURFACE MOUNTED PANELBOARD		A B C	277/480 VOLTS 3 PH 4 WIRE 400 AMPS MAIN LUG ONLY
CIRCUIT DESCRIPTION	AMP		AMP CIRCUIT DESCRIPTION
FLOWER 6 - TIER 1 LIGHTS	20	1	20 FLOWER 6 - TIER 1 LIGHTS
FLOWER 6 - TIER 1 LIGHTS	20	3	20 FLOWER 6 - TIER 1 LIGHTS
FLOWER 6 - TIER 1 LIGHTS	20	5	20 FLOWER 6 - TIER 1 LIGHTS
FLOWER 6 - TIER 1 LIGHTS	20	7	20 FLOWER 6 - TIER 1 LIGHTS
FLOWER 6 - TIER 1 LIGHTS	20	9	20 FLOWER 6 - TIER 1 LIGHTS
FLOWER 6 - TIER 1 LIGHTS	20	11	20 FLOWER 6 - TIER 1 LIGHTS
FLOWER 6 - TIER 2 LIGHTS	20	13	20 FLOWER 6 - TIER 2 LIGHTS
FLOWER 6 - TIER 2 LIGHTS	20	15	20 FLOWER 6 - TIER 2 LIGHTS
FLOWER 6 - TIER 2 LIGHTS	20	17	20 FLOWER 6 - TIER 2 LIGHTS
FLOWER 6 - TIER 2 LIGHTS	20	19	20 FLOWER 6 - TIER 2 LIGHTS
FLOWER 6 - TIER 2 LIGHTS	20	21	20 FLOWER 6 - TIER 2 LIGHTS
FLOWER 6 - TIER 2 LIGHTS	20	23	20 FLOWER 6 - TIER 2 LIGHTS
FLOWER 6 - TIER 3 LIGHTS	20	25	20 FLOWER 6 - TIER 3 LIGHTS
FLOWER 6 - TIER 3 LIGHTS	20	27	20 FLOWER 6 - TIER 3 LIGHTS
FLOWER 6 - TIER 3 LIGHTS	20	29	20 FLOWER 6 - TIER 3 LIGHTS
FLOWER 6 - TIER 3 LIGHTS	20	31	20 FLOWER 6 - TIER 3 LIGHTS
FLOWER 6 - TIER 3 LIGHTS	20	33	20 FLOWER 6 - TIER 3 LIGHTS
FLOWER 6 - TIER 3 LIGHTS	20	35	20 FLOWER 6 - TIER 3 LIGHTS
SPARE	20	37	20 SPARE
SPARE	20	39	20 SPARE
SPARE	20	41	20 SPARE
		G N	PANEL RATING - 35 KAIC

PANEL SCHEDULE - PANEL LP7			
TAG: PANEL LP7 SURFACE MOUNTED PANELBOARD		A B C	277/480 VOLTS 3 PH 4 WIRE 400 AMPS MAIN LUG ONLY
CIRCUIT DESCRIPTION	AMP		AMP CIRCUIT DESCRIPTION
FLOWER 7 - TIER 1 LIGHTS	20	1	20 FLOWER 7 - TIER 1 LIGHTS
FLOWER 7 - TIER 1 LIGHTS	20	3	20 FLOWER 7 - TIER 1 LIGHTS
FLOWER 7 - TIER 1 LIGHTS	20	5	20 FLOWER 7 - TIER 1 LIGHTS
FLOWER 7 - TIER 1 LIGHTS	20	7	20 FLOWER 7 - TIER 1 LIGHTS
FLOWER 7 - TIER 1 LIGHTS	20	9	20 FLOWER 7 - TIER 1 LIGHTS
FLOWER 7 - TIER 1 LIGHTS	20	11	20 FLOWER 7 - TIER 1 LIGHTS
FLOWER 7 - TIER 2 LIGHTS	20	13	20 FLOWER 7 - TIER 2 LIGHTS
FLOWER 7 - TIER 2 LIGHTS	20	15	20 FLOWER 7 - TIER 2 LIGHTS
FLOWER 7 - TIER 2 LIGHTS	20	17	20 FLOWER 7 - TIER 2 LIGHTS
FLOWER 7 - TIER 2 LIGHTS	20	19	20 FLOWER 7 - TIER 2 LIGHTS
FLOWER 7 - TIER 2 LIGHTS	20	21	20 FLOWER 7 - TIER 2 LIGHTS
FLOWER 7 - TIER 2 LIGHTS	20	23	20 FLOWER 7 - TIER 2 LIGHTS
FLOWER 7 - TIER 3 LIGHTS	20	25	20 FLOWER 7 - TIER 3 LIGHTS
FLOWER 7 - TIER 3 LIGHTS	20	27	20 FLOWER 7 - TIER 3 LIGHTS
FLOWER 7 - TIER 3 LIGHTS	20	29	20 FLOWER 7 - TIER 3 LIGHTS
FLOWER 7 - TIER 3 LIGHTS	20	31	20 FLOWER 7 - TIER 3 LIGHTS
FLOWER 7 - TIER 3 LIGHTS	20	33	20 FLOWER 7 - TIER 3 LIGHTS
FLOWER 7 - TIER 3 LIGHTS	20	35	20 FLOWER 7 - TIER 3 LIGHTS
SPARE	20	37	20 SPARE
SPARE	20	39	20 SPARE
SPARE	20	41	20 SPARE
		G N	PANEL RATING - 35 KAIC

PANEL SCHEDULE - PANEL LP8			
TAG: PANEL LP8 SURFACE MOUNTED PANELBOARD		A B C	277/480 VOLTS 3 PH 4 WIRE 400 AMPS MAIN LUG ONLY
CIRCUIT DESCRIPTION	AMP		AMP CIRCUIT DESCRIPTION
FLOWER 8 - TIER 1 LIGHTS	20	1	20 FLOWER 8 - TIER 1 LIGHTS
FLOWER 8 - TIER 1 LIGHTS	20	3	20 FLOWER 8 - TIER 1 LIGHTS
FLOWER 8 - TIER 1 LIGHTS	20	5	20 FLOWER 8 - TIER 1 LIGHTS
FLOWER 8 - TIER 1 LIGHTS	20	7	20 FLOWER 8 - TIER 1 LIGHTS
FLOWER 8 - TIER 1 LIGHTS	20	9	20 FLOWER 8 - TIER 1 LIGHTS
FLOWER 8 - TIER 1 LIGHTS	20	11	20 FLOWER 8 - TIER 1 LIGHTS
FLOWER 8 - TIER 2 LIGHTS	20	13	20 FLOWER 8 - TIER 2 LIGHTS
FLOWER 8 - TIER 2 LIGHTS	20	15	20 FLOWER 8 - TIER 2 LIGHTS
FLOWER 8 - TIER 2 LIGHTS	20	17	20 FLOWER 8 - TIER 2 LIGHTS
FLOWER 8 - TIER 2 LIGHTS	20	19	20 FLOWER 8 - TIER 2 LIGHTS
FLOWER 8 - TIER 2 LIGHTS	20	21	20 FLOWER 8 - TIER 2 LIGHTS
FLOWER 8 - TIER 2 LIGHTS	20	23	20 FLOWER 8 - TIER 2 LIGHTS
FLOWER 8 - TIER 3 LIGHTS	20	25	20 FLOWER 8 - TIER 3 LIGHTS
FLOWER 8 - TIER 3 LIGHTS	20	27	20 FLOWER 8 - TIER 3 LIGHTS
FLOWER 8 - TIER 3 LIGHTS	20	29	20 FLOWER 8 - TIER 3 LIGHTS
FLOWER 8 - TIER 3 LIGHTS	20	31	20 FLOWER 8 - TIER 3 LIGHTS
FLOWER 8 - TIER 3 LIGHTS	20	33	20 FLOWER 8 - TIER 3 LIGHTS
FLOWER 8 - TIER 3 LIGHTS	20	35	20 FLOWER 8 - TIER 3 LIGHTS
SPARE	20	37	20 SPARE
SPARE	20	39	20 SPARE
SPARE	20	41	20 SPARE
		G N	PANEL RATING - 35 KAIC



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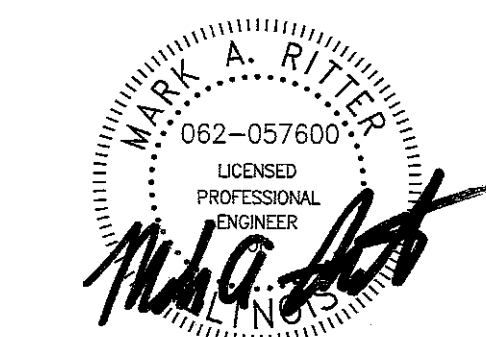
E-3.2

PANEL SCHEDULE - PANEL LP9			
TAG: PANEL LP9 SURFACE MOUNTED PANELBOARD		A B C	277/480 VOLTS 3 PH 4 WIRE 250 AMPS MAIN LUG ONLY
CIRCUIT DESCRIPTION	AMP		AMP CIRCUIT DESCRIPTION
MOTHER TIER 1 LIGHTS	20	1	20 CLONE TIER 2 LIGHTS
MOTHER TIER 1 LIGHTS	20	3	20 MOTHER TIER 3 LIGHTS
MOTHER TIER 1 LIGHTS	20	5	20 MOTHER TIER 3 LIGHTS
CLONE TIER 1 LIGHTS	20	7	20 MOTHER TIER 3 LIGHTS
CLONE TIER 3 LIGHTS	20	9	20 CLONE TIER 4 LIGHTS
FLOWER 1 LIGHTING CONTROLLER	20	11	20 FLOWER 2 LIGHTING CONTROLLER
FLOWER 3 LIGHTING CONTROLLER	20	13	20 FLOWER 4 LIGHTING CONTROLLER
FLOWER 5 LIGHTING CONTROLLER	20	15	20 FLOWER 6 LIGHTING CONTROLLER
FLOWER 8 LIGHTING CONTROLLER	20	17	20 FLOWER 8 LIGHTING CONTROLLER
VEG 1 LIGHTING CONTROLLER	20	19	20 VEG 2 LIGHTING CONTROLLER
VEG 3 LIGHTING CONTROLLER	20	21	20 VEG 5 LIGHTING CONTROLLER
VEG 5 LIGHTING CONTROLLER	20	23	20 OFFICES/VAULT/CURE LIGHTING
WET TRIM AREA/CORR LIGHTING	20	25	20 POTTING/FERT/CORR LIGHTING
SPARE	20	27	20 SPARE
SPARE	20	29	20 SPARE
SPARE	20	31	20 SPARE
SPARE	20	33	20 SPARE
SPARE	20	35	20 SPARE
SPARE	20	37	20 SPARE
SPARE	20	39	20 SPARE
SPARE	20	41	20 SPARE
		G N	PANEL RATING - 35 KAIC

PANEL SCHEDULE - PANEL CP1			
TAG: PANEL CP1 SURFACE MOUNTED PANELBOARD		A B C	120/208 VOLTS 3 PH 4 WIRE 400 AMPS MAIN BREAKER
CIRCUIT DESCRIPTION	AMP		AMP CIRCUIT DESCRIPTION
FLOWER 1 - TIER 1 FANS	20	1	20 FLOWER 1 - TIER 1 FANS
FLOWER 1 - TIER 2 FANS	20	3	20 FLOWER 1 - TIER 2 FANS
FLOWER 1 - TIER 3 FANS	20	5	20 FLOWER 1 - TIER 3 FANS
FLOWER 2 - TIER 1 FANS	20	7	20 FLOWER 2 - TIER 1 FANS
FLOWER 2 - TIER 2 FANS	20	9	20 FLOWER 2 - TIER 2 FANS
FLOWER 2 - TIER 3 FANS	20	11	20 FLOWER 2 - TIER 3 FANS
FLOWER 3 - TIER 1 FANS	20	13	20 FLOWER 3 - TIER 1 FANS
FLOWER 3 - TIER 2 FANS	20	15	20 FLOWER 3 - TIER 2 FANS
FLOWER 3 - TIER 3 FANS	20	17	20 FLOWER 3 - TIER 3 FANS
FLOWER 4 - TIER 1 FANS	20	19	20 FLOWER 4 - TIER 1 FANS
FLOWER 4 - TIER 2 FANS	20	21	20 FLOWER 4 - TIER 2 FANS
FLOWER 4 - TIER 3 FANS	20	23	20 FLOWER 4 - TIER 3 FANS
FLOWER 5 - TIER 1 FANS	20	25	20 FLOWER 5 - TIER 1 FANS
FLOWER 5 - TIER 2 FANS	20	27	20 FLOWER 5 - TIER 2 FANS
FLOWER 5 - TIER 3 FANS	20	29	20 FLOWER 5 - TIER 3 FANS
FLOWER 6 - TIER 1 FANS	20	31	20 FLOWER 6 - TIER 1 FANS
FLOWER 6 - TIER 2 FANS	20	33	20 FLOWER 6 - TIER 2 FANS
FLOWER 6 - TIER 3 FANS	20	35	20 FLOWER 6 - TIER 3 FANS
FLOWER 7 - TIER 1 FANS	20	37	20 FLOWER 7 - TIER 1 FANS
FLOWER 7 - TIER 2 FANS	20	39	20 FLOWER 7 - TIER 2 FANS
FLOWER 7 - TIER 3 FANS	20	41	20 FLOWER 7 - TIER 3 FANS
		G N	FEED THROUGH LUGS

PANEL SCHEDULE - PANEL LPV			
TAG: PANEL LPV SURFACE MOUNTED PANELBOARD		A B C	277/480 VOLTS 3 PH 4 WIRE 400 AMPS MAIN LUG ONLY
CIRCUIT DESCRIPTION	AMP		AMP CIRCUIT DESCRIPTION
VEG 1 - TIER 1 LIGHTS	20	1	20 VEG 1 - TIER 1 LIGHTS
VEG 1 - TIER 2 LIGHTS	20	3	20 VEG 1 - TIER 2 LIGHTS
VEG 1 - TIER 3 LIGHTS	20	5	20 VEG 1 - TIER 3 LIGHTS
VEG 1 - TIER 4 LIGHTS	20	7	20 VEG 1 - TIER 4 LIGHTS
VEG 2 - TIER 1 LIGHTS	20	9	20 VEG 2 - TIER 1 LIGHTS
VEG 2 - TIER 2 LIGHTS	20	11	20 VEG 2 - TIER 2 LIGHTS
VEG 2 - TIER 3 LIGHTS	20	13	20 VEG 2 - TIER 3 LIGHTS
VEG 2 - TIER 4 LIGHTS	20	15	20 VEG 2 - TIER 4 LIGHTS
VEG 3 - TIER 1 LIGHTS	20	17	20 VEG 3 - TIER 1 LIGHTS
VEG 3 - TIER 2 LIGHTS	20	19	20 VEG 3 - TIER 2 LIGHTS
VEG 3 - TIER 3 LIGHTS	20	21	20 VEG 3 - TIER 3 LIGHTS
VEG 3 - TIER 4 LIGHTS	20	23	20 VEG 3 - TIER 4 LIGHTS
VEG 4 - TIER 1 LIGHTS	20	25	20 VEG 4 - TIER 1 LIGHTS
VEG 4 - TIER 2 LIGHTS	20	27	20 VEG 4 - TIER 2 LIGHTS
VEG 4 - TIER 3 LIGHTS	20	29	20 VEG 4 - TIER 3 LIGHTS
VEG 4 - TIER 4 LIGHTS	20	31	20 VEG 4 - TIER 4 LIGHTS
VEG 5 - TIER 1 LIGHTS	20	33	20 VEG 5 - TIER 1 LIGHTS
VEG 5 - TIER 2 LIGHTS	20	35	20 VEG 5 - TIER 2 LIGHTS
VEG 5 - TIER 3 LIGHTS	20	37	20 VEG 5 - TIER 3 LIGHTS
VEG 5 - TIER 4 LIGHTS	20	39	20 VEG 5 - TIER 4 LIGHTS
SPARE	20	41	20 SPARE
		G N	PANEL RATING - 35 KAIC

PANEL SCHEDULE - PANEL CP1A			
TAG: PANEL CP1A SURFACE MOUNTED PANELBOARD		A B C	120/208 VOLTS 3 PH 4 WIRE 400 AMPS MAIN LUG ONLY
CIRCUIT DESCRIPTION	AMP		AMP CIRCUIT DESCRIPTION
FLOWER 8 - TIER 1 FANS	20	1	20 FLOWER 8 - TIER 1 FANS
FLOWER 8 - TIER 2 FANS	20	3	20 FLOWER 8 - TIER 2 FANS
FLOWER 8 - TIER 3 FANS	20	5	20 FLOWER 8 - TIER 3 FANS
FLOWER 1 CONTROL PANEL	20	7	20 FLOWER 2 CONTROL PANEL
FLOWER 3 CONTROL PANEL	20	9	20 FLOWER 4 CONTROL PANEL
FLOWER 5 CONTROL PANEL	20	11	20 FLOWER 6 CONTROL PANEL
FLOWER 7 CONTROL PANEL	20	13	20 FLOWER 8 CONTROL PANEL
FLOWER 1 - OSCILLATING FANS	20	15	20 FLOWER 1 - OSCILLATING FANS
FLOWER 2 - OSCILLATING FANS	20	17	20 FLOWER 2 - OSCILLATING FANS
FLOWER 3 - OSCILLATING FANS	20	19	20 FLOWER 3 - OSCILLATING FANS
FLOWER 4 - OSCILLATING FANS	20	21	20 FLOWER 4 - OSCILLATING FANS
FLOWER 5 - OSCILLATING FANS	20	23	20 FLOWER 5 - OSCILLATING FANS
FLOWER 6 - OSCILLATING FANS	20	25	20 FLOWER 6 - OSCILLATING FANS
FLOWER 7 - OSCILLATING FANS	20	27	20 FLOWER 7 - OSCILLATING FANS
FLOWER 8 - OSCILLATING FANS	20	29	20 FLOWER 8 - OSCILLATING FANS
SPARE	20	31	20 SPARE
SPARE	20	33	20 SPARE
SPARE	20	35	20 SPARE
SPARE	20	37	20 SPARE
SPARE	20	39	20 SPARE
SPARE	20	41	20 SPARE
		G N	



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GRI Holdings, LLC
740 Schneider
South Elgin, IL 60177

PROJECT NO. R21-049

DATE 12/10/21

DRAWN CDB

CHECKED KDW

**ELECTRICAL
SCHEDULES**

E-3.3

PANEL SCHEDULE - PANEL CP2

TAG: PANEL CP2 SURFACE MOUNTED PANELBOARD		120/208 VOLTS 400 AMPS		3 PH 4 WIRE MAIN BREAKER	
CIRCUIT DESCRIPTION	AMP	AMP	CIRCUIT DESCRIPTION	AMP	CIRCUIT DESCRIPTION
VEG 1 - TIER 1 FANS	20	1	VEG 1 - TIER 2 FANS	20	2
VEG 1 - TIER 3 FANS	20	3	VEG 1 - TIER 4 FANS	20	4
VEG 2 - TIER 1 FANS	20	5	VEG 2 - TIER 2 FANS	20	6
VEG 2 - TIER 3 FANS	20	7	VEG 2 - TIER 4 FANS	20	8
VEG 3 - TIER 1 FANS	20	9	VEG 3 - TIER 2 FANS	20	10
VEG 3 - TIER 3 FANS	20	11	VEG 3 - TIER 4 FANS	20	12
VEG 4 - TIER 1 FANS	20	13	VEG 4 - TIER 2 FANS	20	14
VEG 4 - TIER 3 FANS	20	15	VEG 4 - TIER 4 FANS	20	16
VEG 5 - TIER 1 FANS	20	17	VEG 5 - TIER 2 FANS	20	18
VEG 5 - TIER 3 FANS	20	19	VEG 5 - TIER 4 FANS	20	20
VEG 1 - GENERAL RECEPTACLES	20	21	VEG 1 - GENERAL RECEPTACLES	20	22
VEG 1 - GENERAL RECEPTACLES	20	23	VEG 2 - GENERAL RECEPTACLES	20	24
VEG 2 - GENERAL RECEPTACLES	20	25	VEG 2 - GENERAL RECEPTACLES	20	26
VEG 3 - GENERAL RECEPTACLES	20	27	VEG 3 - GENERAL RECEPTACLES	20	28
VEG 3 - GENERAL RECEPTACLES	20	29	VEG 4 - GENERAL RECEPTACLES	20	30
VEG 4 - GENERAL RECEPTACLES	20	31	VEG 4 - GENERAL RECEPTACLES	20	32
VEG 5 - GENERAL RECEPTACLES	20	33	VEG 5 - GENERAL RECEPTACLES	20	34
VEG 5 - GENERAL RECEPTACLES	20	35	OVERHEAD DOOR	20	36
SPARE	20	37	OVERHEAD DOOR	20	38
SPARE	20	39	SPARE	20	40
SPARE	20	41	SPARE	20	42

PANEL SCHEDULE - PANEL GP1

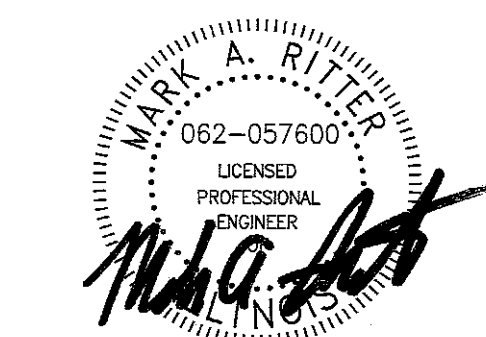
TAG: PANEL GP1 SURFACE MOUNTED PANELBOARD		120/208 VOLTS 400 AMPS		3 PH 4 WIRE MAIN BREAKER	
CIRCUIT DESCRIPTION	AMP	AMP	CIRCUIT DESCRIPTION	AMP	CIRCUIT DESCRIPTION
CONFERENCE RECEPTACLES	20	1	OFFICE RECEPTACLES	20	2
OFFICE RECEPTACLES	20	3	BREAKROOM RECEPTACLES	20	4
BREAKROOM RECEPTACLES	20	5	BREAKROOM COUNTER RCPTS	20	6
BREAKROOM REFRIGERATOR	20	7	LOCKER ROOMS/STORAGE RCPTS	20	8
CORRIDOR RECEPTACLES	20	9	RESTROOM RECEPTACLES	20	10
SECURITY OFFICE	20	11	MECHANICAL/STORAGE RCPTS	20	12
CURE ROOM RECEPTACLES	20	13	CURE ROOM/VAULT RCPTS	20	14
CURE ROOM RECEPTACLES	20	15	LOADING/SHIPPING ROOM RCPTS	20	16
LOADING/SHIPPING ROOM RCPTS	20	17	NUG POPPING RECEPTACLES	20	18
NUG POPPING RECEPTACLES	20	19	DRY ROOM RECEPTACLES	20	20
WET TRIM AREA RECEPTACLES	20	21	WET TRIM AREA RECEPTACLES	20	22
SPARE	20	23	WET TRIM AREA/MECH RCPTS	20	24
POTTING AREA RECEPTACLES	20	25	SPARE	20	26
POTTING AREA RECEPTACLES	20	27	FERTIGATION RECEPTACLES	20	28
FERTIGATION RECEPTACLES	20	29	FERTIGATION RECEPTACLES	20	30
WATER FOUNTAIN	20	31	FLOWER 1 GREEN LIGHTING	20	32
FLOWER 2 GREEN LIGHTING	20	33	FLOWER 3 GREEN LIGHTING	20	34
FLOWER 4 GREEN LIGHTING	20	35	FLOWER 5 GREEN LIGHTING	20	36
FLOWER 6 GREEN LIGHTING	20	37	FLOWER 7 GREEN LIGHTING	20	38
FLOWER 8 GREEN LIGHTING	20	39	SPARE	20	40
SPARE	20	41	SPARE	20	42

PANEL SCHEDULE - PANEL CP3

TAG: PANEL CP3 SURFACE MOUNTED PANELBOARD		120/208 VOLTS 400 AMPS		3 PH 4 WIRE MAIN BREAKER	
CIRCUIT DESCRIPTION	AMP	AMP	CIRCUIT DESCRIPTION	AMP	CIRCUIT DESCRIPTION
FLOWER 1 - GENERAL RCPTS	20	1	FLOWER 1 - GENERAL RCPTS	20	2
FLOWER 1 - GENERAL RCPTS	20	3	FLOWER 2 - GENERAL RCPTS	20	4
FLOWER 2 - GENERAL RCPTS	20	5	FLOWER 2 - GENERAL RCPTS	20	6
FLOWER 3 - GENERAL RCPTS	20	7	FLOWER 3 - GENERAL RCPTS	20	8
FLOWER 3 - GENERAL RCPTS	20	9	FLOWER 4 - GENERAL RCPTS	20	10
FLOWER 4 - GENERAL RCPTS	20	11	FLOWER 4 - GENERAL RCPTS	20	12
FLOWER 5 - GENERAL RCPTS	20	13	FLOWER 5 - GENERAL RCPTS	20	14
FLOWER 5 - GENERAL RCPTS	20	15	FLOWER 6 - GENERAL RCPTS	20	16
FLOWER 6 - GENERAL RCPTS	20	17	FLOWER 6 - GENERAL RCPTS	20	18
FLOWER 7 - GENERAL RCPTS	20	19	FLOWER 7 - GENERAL RCPTS	20	20
FLOWER 8 - GENERAL RCPTS	20	21	FLOWER 7 - GENERAL RCPTS	20	22
FLOWER 8 - GENERAL RCPTS	20	23	FLOWER 8 - GENERAL RCPTS	20	24
SPARE	20	25	SPARE	20	26
SPARE	20	27	SPARE	20	28
SPARE	20	29	SPARE	20	30
SPARE	20	31	SPARE	20	32
SPARE	20	33	SPARE	20	34
SPARE	20	35	SPARE	20	36
SPARE	20	37	SPARE	20	38
SPARE	20	39	SPARE	20	40
SPARE	20	41	SPARE	20	42

PANEL SCHEDULE - PANEL GP1A

TAG: PANEL GP1A SURFACE MOUNTED PANELBOARD		120/208 VOLTS 400 AMPS		3 PH 4 WIRE MAIN LUG ONLY	
CIRCUIT DESCRIPTION	AMP	AMP	CIRCUIT DESCRIPTION	AMP	CIRCUIT DESCRIPTION
CONDENSING UNIT 1	30	1	CONDENSING UNIT 4	30	2
CONDENSING UNIT 2	40	3	CONDENSING UNIT 3	40	4
CONDENSING UNIT 2	40	5	CONDENSING UNIT 3	40	6
MSHP-1	20	7	CONDENSING UNIT 3	40	8
FURNACE 1	20	9	MSHP-2	20	10
FURNACE 3	20	11	FURNACE 2	20	12
FURNACE 3	20	13	FURNACE 2	20	14
MSS	20	15	FURNACE 4	20	16
MSS	20	17	FURNACE 5	20	18
MSS	20	19	FURNACE 6	20	20
CONDENSING UNIT 5	20	21	CONDENSING UNIT 6	40	22
CONDENSING UNIT 5	20	23	CONDENSING UNIT 6	40	24
MSHP-3	20	25	CONDENSING UNIT 7A	40	26
MSHP-3	20	27	CONDENSING UNIT 7A	40	28
CONDENSING UNIT 7B	40	29	CONDENSING UNIT 8	40	30
CONDENSING UNIT 7B	40	31	CONDENSING UNIT 8	40	32
CONDENSING UNIT 9	40	33	CONDENSING UNIT 10	20	34
CONDENSING UNIT 9	40	35	CONDENSING UNIT 10	20	36
FURNACE 7A	20	37	FURNACE 7B	20	38
FURNACE 8	20	39	FURNACE 9	20	40
FURNACE 10	20	41	SPARE	20	42



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South Elgin, IL 60177

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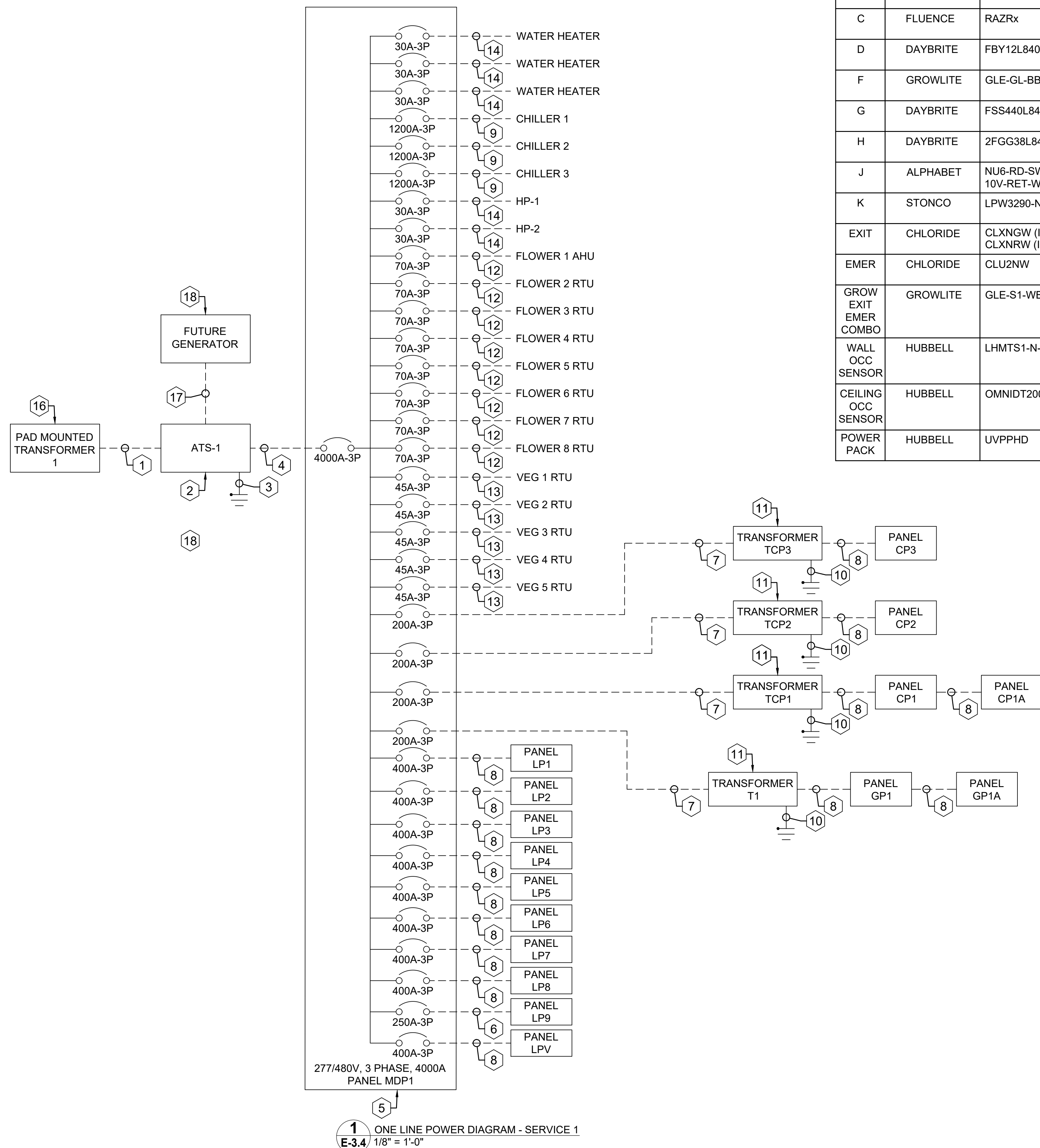
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ELECTRICAL SCHEDULES

E-3.4

LIGHTING SCHEDULE

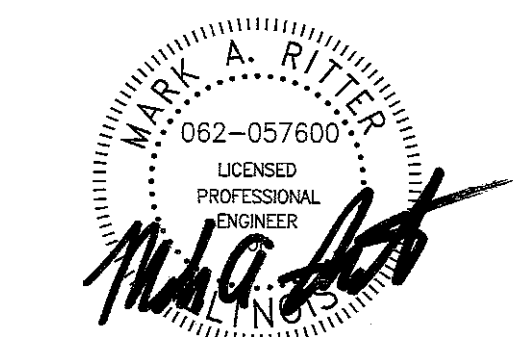
TAG	MANUF.	CAT. NO.	VOLT	LAMPS			DESCRIPTION
				NO.	WATTS	TYPE	
A	FLUENCE	SPYDR 2i	277	1	630	LED	630W LED FLOWER ROOM GROW LIGHT BY OWNER.
B	FLUENCE	SPYDR 2x	277	1	345	LED	345W LED VEG AND MOTHER ROOM GROW LIGHT BY OWNER.
C	FLUENCE	RAZRx	277	1	114	LED	114W LED CLONE ROOM GROW LIGHT BY OWNER.
D	DAYBRITE	FBY12L840-UNV-LFA-HCH5-VHOOK	277	1	88	LED	2 FOOT, 12,000 LUMEN LED HIGH BAY LIGHT FIXTURE.
F	GROWLITE	GLE-GL-BB	120	1	48	LED	3 FOOT, 4,700 LUMEN GREEN LED LIGHT FIXTURE.
G	DAYBRITE	FSS440L840-UNV-DIM	277	1	31	LED	4 FOOT, 4000 LUMEN LED STRIP LIGHT FIXTURE.
H	DAYBRITE	2FGG38L840-2-D-UNV-DIM-FSF22	277	1	33	LED	2x2 RECESSED, 3800 LUMEN LED LIGHT FIXTURE.
J	ALPHABET	NU6-RD-SW-15LM-40K-80-WH70-UNV-10V-RET-WH-WH	277	1	14	LED	6" DIAMETER, 1200 LUMEN LED LIGHT FIXTURE.
K	STONCO	LPW3290-NWG3-3-UNV-PCB	277	1	89	LED	10,000 LUMEN LED WALL PACK WITH INTEGRAL PHOTOCELL.
EXIT	CHLORIDE	CLXNGW (IN FLOWER & VEG ROOMS) CLXNRW (IN ALL OTHER SPACES)	277			LED	THERMOPLASTIC EXIT SIGN WITH BATTERY BACKUP.
EMER	CHLORIDE	CLU2NW	277			LED	THERMOPLASTIC EXIT SIGN WITH BATTERY BACKUP.
GROW EXIT EMER COMBO	GROWLITE	GLE-S1-WB-BL-EL2-G1	277				WALL MOUNTED GREEN LED EXIT SIGN/EMERGENCY LIGHT COMBINATION.
WALL OCC SENSOR	HUBBELL	LHMTS1-N-WH	277				WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH OVERRIDE SWITCH.
CEILING OCC SENSOR	HUBBELL	OMNIDT2000	277				CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH OVERRIDE SWITCH.
POWER PACK	HUBBELL	UVPPHD	277				UNIVERSAL LIGHTING POWER PACK.



1 ONE LINE POWER DIAGRAM - SERVICE 1
E-3.4 1/8" = 1'-0"

ELECTRICAL KEYED (X) NOTES:

- ROUTE (8) SETS OF 4-600 MCM 4" CONDUITS.
- PROVIDE NEMA 3R SERVICE RATED, 4000A AUTOMATIC TRANSFER SWITCH. AUTOMATIC TRANSFER SWITCH SHALL HAVE A TAP BOX TO ACCEPT CAMLOCKS FOR A TEMPORARY ROLL-OFF GENERATOR. AUTOMATIC TRANSFER SWITCH SHALL BE SET UP IN MANUAL OPERATION.
- GROUND AND BOND AUTOMATIC TRANSFER SWITCH IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
- ROUTE (10) SETS OF 4-600 MCM & 3/0 GROUND IN 4" CONDUITS.
- PROVIDE 277/480V, 4000A, THREE PHASE, ELECTRICAL PANEL MDP1.
- ROUTE 4-250 MCM & #4 AWG GND IN A 2 1/2" CONDUIT.
- ROUTE 3-3/0 & #6 AWG GND IN A 2" CONDUIT.
- ROUTE 4-600 MCM & #2 AWG GND IN A 4" CONDUIT.
- ROUTE (3) SETS OF 3-600 MCM & 3/0 GROUND IN 4" CONDUITS.
- 1/0 GROUNDING ELECTRODE CONDUCTOR TO A 5/8" x 10'-0" COPPER GROUND ROD. ROUTE 1/0 BONDING CONDUCTOR TO NEAREST BUILDING STEEL.
- PROVIDE A 150 KVA DRY-TYPE TRANSFORMER, 480V PRIMARY x 120/208V SECONDARY.
- ROUTE 3-#4 AWG & #8 AWG GND IN A 1 1/4" CONDUIT.
- ROUTE 3-#8 AWG & #10 AWG GND IN A 3/4" CONDUIT.
- ROUTE 4-#10 AWG IN A 3/4" CONDUIT.
- ROUTE 3-#3 AWG & #8 AWG GND IN A 1 1/4" CONDUIT.
- 3750 KVA PAD MOUNTED TRANSFORMER BY COM ED. TRANSFORMER TO BE UPGRADED AS PART OF THIS PROJECT.
- STUB (8) 4" PVC CONDUITS 10 FEET OUT FROM AUTOMATIC TRANSFER SWITCH PAD FOR FUTURE EXTENSION TO GENERATOR.
- FUTURE GENERATOR AND WIRING.



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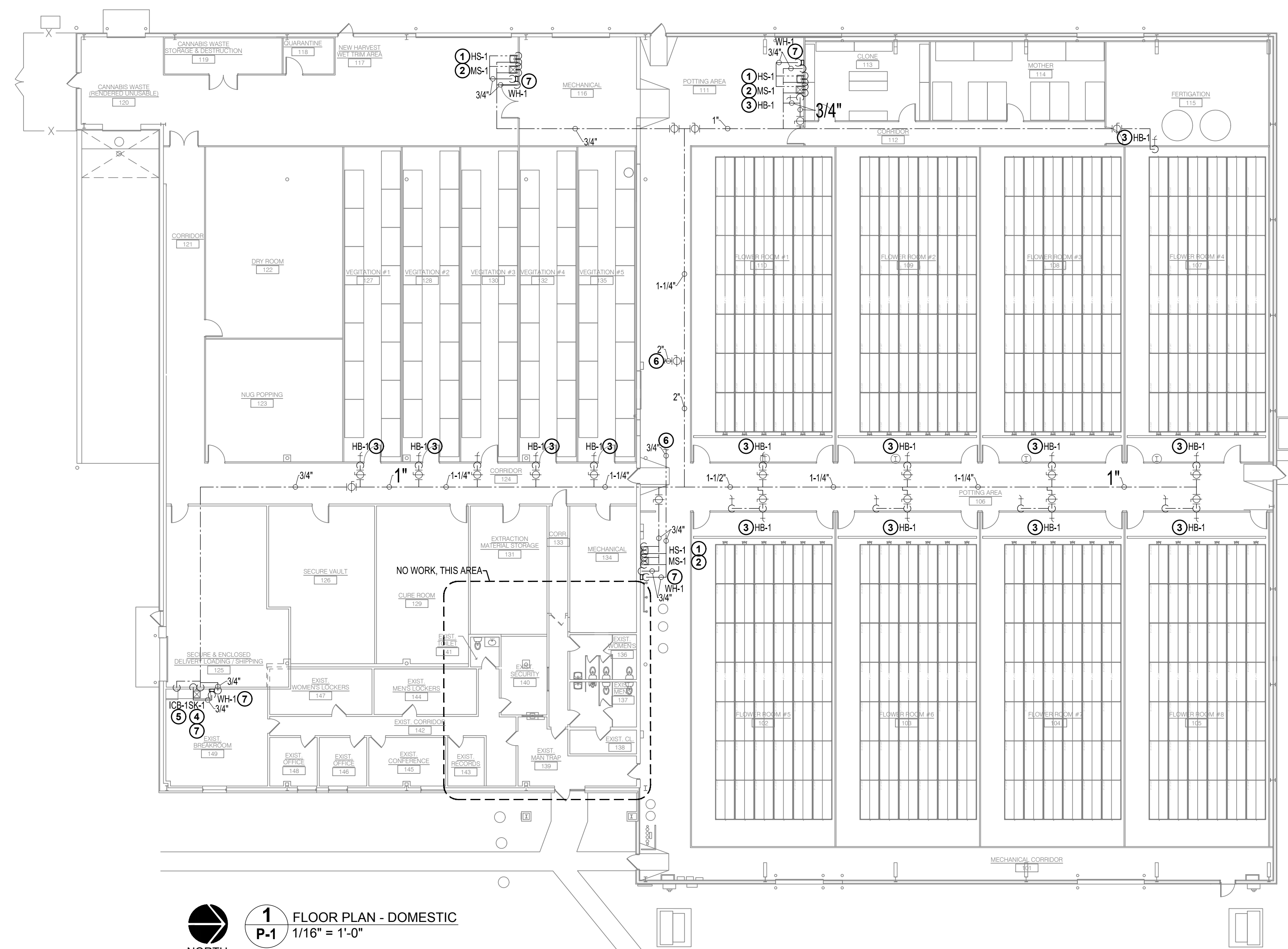
DATE 12/10/21

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CHECKED KDW

FLOOR PLAN -
DOMESTIC

P-1



1 FLOOR PLAN - DOMESTIC
P-1 1/16" = 1'-0"

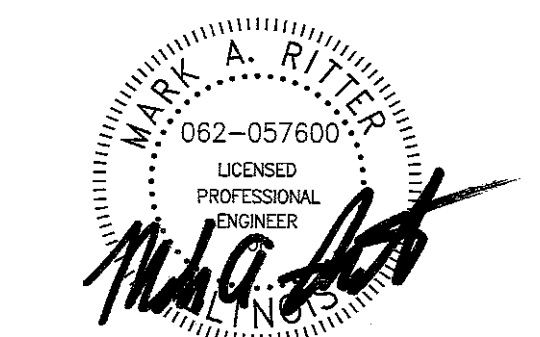


- GENERAL NOTES: (THIS SHEET ONLY)**
- ALL WORK SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE INTERNATIONAL PLUMBING CODE.
 - SEE SHEET P-4 FOR GENERAL NOTES, DETAILS, AND SCHEDULES.
 - PROVIDE ISOLATION VALVES AT ALL BRANCH TEES SERVING FIXTURE(S).

- PLUMBING KEYED (X) NOTES: (THIS SHEET ONLY)**
- PROVIDE HAND SINK (HS-1) ASSEMBLY WITH 1/2" CWS & HWS PIPING.
 - PROVIDE MOP SINK (MS-1) ASSEMBLY WITH 1/2" CWS & HWS PIPING.
 - PROVIDE WALL HOSE BIB (HB-1) WITH 3/4" CWS PIPING. COORDINATE LOCATION.
 - PROVIDE SINK (SK-1) ASSEMBLY WITH 1/2" CWS & HWS PIPING.
 - PROVIDE ICE MAKER CONNECTION BOX (ICB-1) ASSEMBLY WITH 3/8" CWS PIPING. COORDINATE LOCATION.
 - CONNECT TO EXISTING PIPING AT NEAREST AVAILABLE. CODE COMPLIANT LOCATION.
 - PROVIDE ELECTRIC INSTANTANEOUS WATER HEATER (WH-1) FOR FIXTURE(S). COORDINATE EXACT LOCATION WITH OWNER.

PLUMBING LEGEND	
A.C.	ABOVE CEILING
B.F.	BELOW FLOOR
CWS	COLD WATER SUPPLY
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HYD-X	WALL HYDRANT
HB-X	HOSE BIBB
HS-X	HAND SINK
FD-X	FLOOR DRAIN
FS-X	FLOOR SINK
COTF	CLEANOUT TO FLOOR
UR-X	URINAL
ICB-X	ICE MAKER CONNECTION BOX
LAV-X	LAVATORY
WC-X	WATER CLOSET
MS-X	MOP SINK
UR-X	URINAL
WH-X	WATER HEATER
DCP-X	DOMESTIC CIRCULATOR PUMP
DET-X	DOMESTIC EXPANSION TANK
SH-X	SHOWER
TD-X	TRENCH DRAIN
---	EXISTING COLD WATER SUPPLY PIPING
---	COLD WATER SUPPLY PIPING
---	EXISTING HOT WATER SUPPLY PIPING
---	HOT WATER SUPPLY PIPING
---	EXISTING HOT WATER RETURN PIPING
---	HOT WATER RETURN PIPING
---	EXISTING BELOW-GRADE SANITARY SEWER PIPING
---	BELOW-GRADE SANITARY SEWER PIPING
---	EXISTING VENT PIPING
---	VENT PIPING
---	EXISTING GAS PIPING
---	GAS PIPING
---	PIPE SHALL BE DEMOLISHED
○	ELBOW DOWN
○	ELBOW UP
○	BALL VALVE
○	CHECK VALVE
○	HOSE BIBB
○	HYDRANT
○	CIRCULATOR PUMP
○	INDICATES CONNECTION TO EXISTING

NOTE: SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT



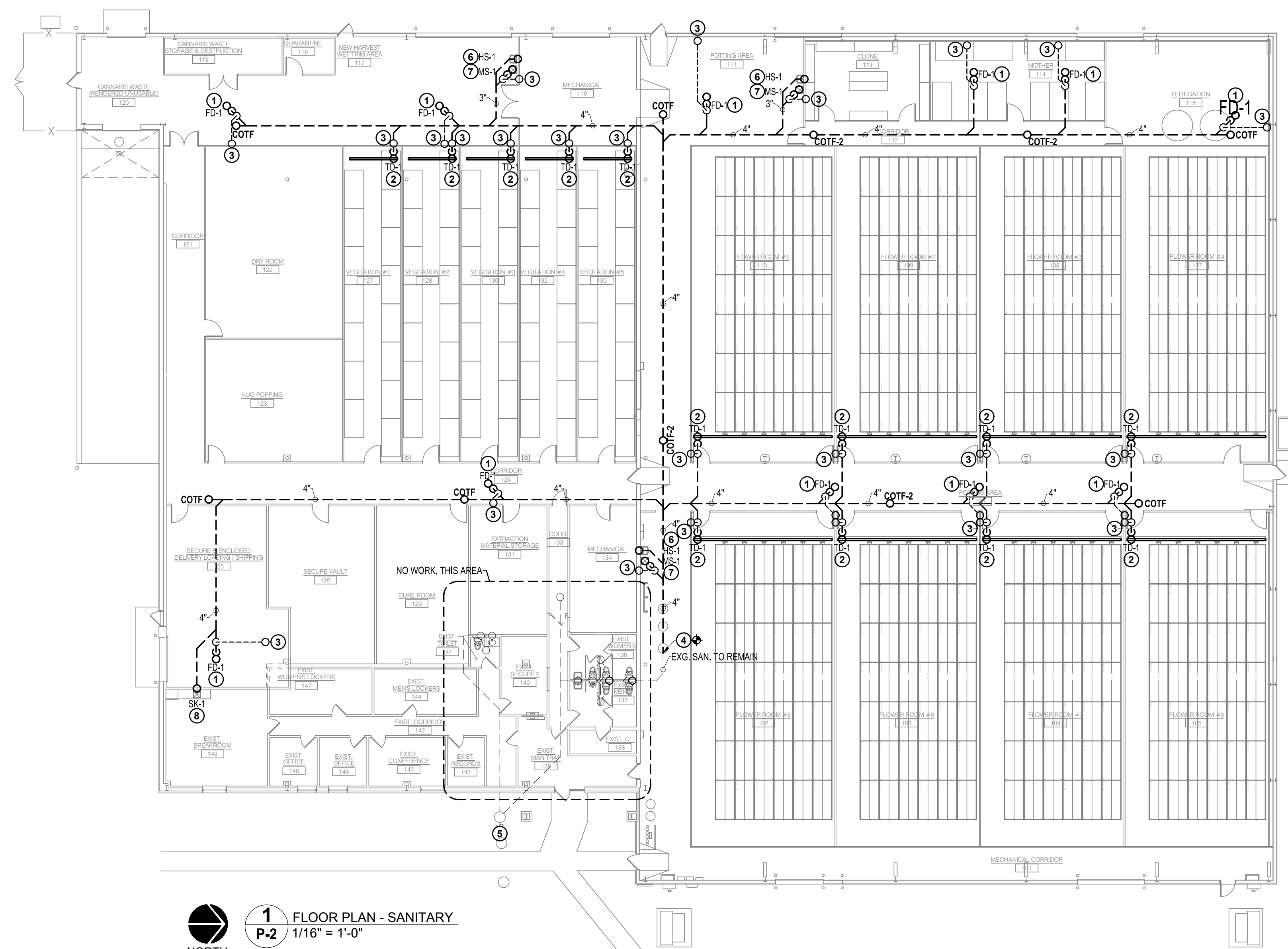
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1 FLOOR PLAN - SANITARY
P-2
1/16" = 1'-0"
NORTH

GENERAL NOTES: (THIS SHEET ONLY)

- A. ALL WORK SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE INTERNATIONAL PLUMBING CODE.
- B. SAWCUT AND REMOVE EXISTING CONCRETE FLOOR AS REQUIRED TO INSTALL NEW DRAINS AND RELATED PIPING AS INDICATED. PROVIDE MIN. 4" THICK CONCRETE ON COMPACTED FULL DEPTH GRANULAR FILL, FLUSH WITH ADJACENT CONCRETE FLOOR. SEE "A" SHEETS FOR ADDITIONAL INFORMATION.
- C. SEE SHEET P-4 FOR GENERAL NOTES, DETAILS, AND SCHEDULES.

PLUMBING KEYED (X) NOTES: (THIS SHEET ONLY)

- 1. PROVIDE FLOOR DRAIN (FD-1) WITH 3" SANITARY SEWER PIPING. COORDINATE EXACT LOCATION WITH OWNER.
- 2. PROVIDE TRENCH DRAIN (TD-1) WITH 3" SANITARY SEWER PIPING. PROVIDE QUANTITY OF SECTIONS REQUIRED TO PROVIDE TOTAL LENGTH REQUIRED AT EACH LOCATION. COORDINATE LOCATION/LENGTHS WITH OWNER.
- 3. VENT PIPING FROM BELOW FLOOR. ROUTE VENT PIPING UP. COMBINE VENT PIPING FROM ADJACENT FIXTURES IN AREA AND THEN ROUTE TO 4" V.I.R. COMBINE FIXTURE VENTS AS MUCH AS PRACTICAL TO PROVIDE THE FEWEST ROOF PENETRATIONS AS POSSIBLE.
- 4. CONNECT SANITARY SEWER PIPING TO EXISTING SANITARY SEWER PIPING AT APPROXIMATE LOCATION INDICATED. PROVIDE ALL FITTINGS/ADAPTORS AS REQUIRED.
- 5. EXISTING SANITARY SEWER TO SITE, TO REMAIN.
- 6. PROVIDE HAND SINK (HS-1) ASSEMBLY WITH 1-1/2" SANITARY SEWER PIPING.
- 7. PROVIDE MOP SINK (MS-1) ASSEMBLY WITH 3" SANITARY SEWER PIPING.
- 8. PROVIDE SINK (SK-1) ASSEMBLY WITH 2" SANITARY SEWER PIPING.

GRI Holdings, LLC
740 Schneider
South Elgin, IL 60177

PROJECT NO. R21-049

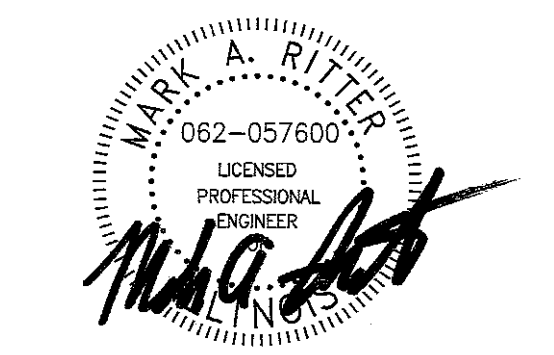
DATE 12/10/21

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CHECKED KDW

FLOOR PLAN -
SANITARY

P-2



SIGNATURE

12/10/2021

DATE

11/30/2023

LICENSE EXPIRES

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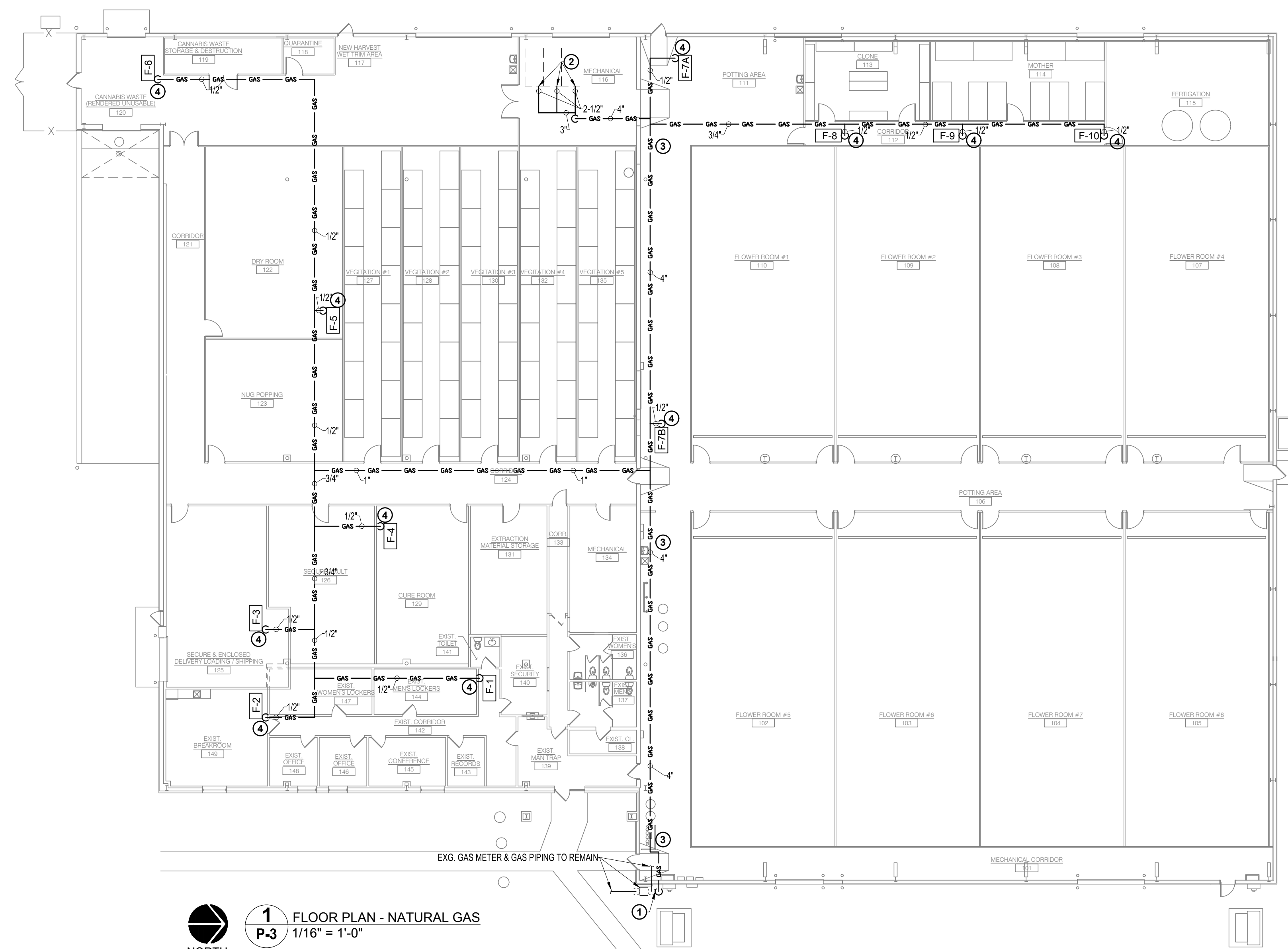
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GAS PIPING PLAN

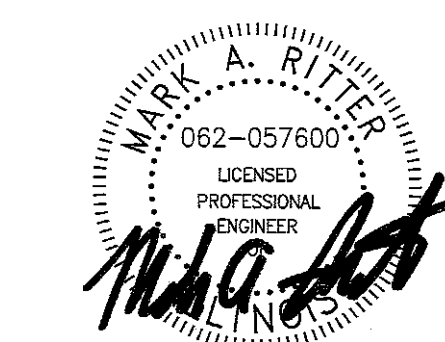
P-3



- PLUMBING KEYED (X) NOTES: (THIS SHEET ONLY)**
- CONNECT 4" GAS PIPING TO OUTLET OF EXISTING (OR NEW, IF UTILITY CO. MUST CHANGE OUT METER FOR LARGER CAPACITY) GAS METER. MODIFY EXISTING GAS PIPING AS REQUIRED. ROUTE 4" GAS PIPING THRU EXTERIOR WALL. PROVIDE WEATHERTIGHT SEAL. ROUTE THRU BUILDING TO NEW BOILERS. NEW WORK GAS ASSUMPTIONS: 19.160MBH, 300LF PIPING, 2PSI.
 - CONNECT 2-1/2" GAS TO MECHANICAL EQUIPMENT. PROVIDE ISOLATION VALVE, DIRT-LEG, UNION, AND LBS. TO INCHES REGULATOR AS REQUIRED.
 - COORDINATE ROUTE OF GAS PIPING WITH EXISTING BUILDING ELEMENTS AND OWNER. MOUNT/HANG PIPING FROM STRUCTURAL ELEMENTS ONLY. PAINT ALL GAS PIPING YELLOW.
 - CONNECT 1/2" GAS TO MECHANICAL EQUIPMENT. PROVIDE ISOLATION VALVE, DIRT-LEG, UNION, AND LBS. TO INCHES REGULATOR AS REQUIRED.

1 FLOOR PLAN - NATURAL GAS
P-3 1/16" = 1'-0"
NORTH

EXG. GAS METER & GAS PIPING TO REMAIN



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GENERAL NOTES,
DETAILS, AND
SCHEDULES

P-4

GENERAL PLUMBING NOTES:

- A. ALL PLUMBING WORK SHALL COMPLY WITH THE INTERNATIONAL PLUMBING CODE AND ALL OTHER APPLICABLE LOCAL CODES AND REGULATIONS, AND SHALL BE ENFORCED BY THE PLUMBING CONTRACTOR AT ALL TIMES.
- B. PROVIDE ALL MATERIAL, LABOR, PERMITS AND FEES NECESSARY TO INSTALL A COMPLETE WATER SUPPLY, WASTE AND VENT PIPING AS INDICATED BY THESE DRAWINGS AND SPECIFICATIONS, AND AS REQUIRED TO COMPLY WITH THE INTERNATIONAL PLUMBING CODE.
- C. CONNECT ALL WATER, AND WASTE LINES ETC., FOR ALL FIXTURES. LINE SIZES SHALL BE NO SMALLER THAN THE STUB-OUT PROVIDED FOR THE FIXTURE.
- D. FURNISH AND INSTALL READILY ACCESSIBLE BALL VALVES ON ALL WATER LINES TO INDIVIDUAL FIXTURES OR BANKS OF FIXTURES AS INDICATED. ALL SHUT-OFF VALVES SHALL BE INSTALLED FOR EASY ACCESS.
- E. FURNISH ALL SHUT-OFF VALVES, PRESSURE REDUCING VALVES, TAIL PIECES, 'P' TRAPS, BACK FLOW PREVENTION DEVICES, AND VACUUM BREAKERS AS REQUIRED BY CODES OR REQUIRED FOR PROPER INSTALLATION.
- F. INSULATE ALL DOMESTIC WATER LINES.
- G. ALL WASTE AND VENT PIPING IS TO BE SCH 40 PVC WITH SOLVENT WELD JOINTS OR WHERE NOTED OTHERWISE.
- H. DOMESTIC SUPPLY PIPING BELOW SLAB IS TO BE SOFT TYPE "K" COPPER (NO JOINTS BELOW SLAB) WITH CONTINUOUS CLOSED CELL INSULATION AND HARD TYPE "L" ABOVE SLAB.
- I. ALL PIPING IS TO BE HUNG OR FASTENED TO STRUCTURE WITH MANUFACTURED HANGERS AND SUPPORTS. PIPE STRAP IS NOT TO BE USED FOR PIPE SUPPORT OR ANCHORAGE.
- J. FIXTURE STOPS SHALL BE 1/4 TURN TYPE. TRAPS SHALL BE 17GA. CHROME PLATED BRASS. SUPPLIES SHALL BE FLEXIBLE STAINLESS STEEL.
- K. REFER TO ARCHITECTURAL SHEETS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES, AND WALL AND FLOOR FINISHES. CONTRACTOR SHALL COORDINATE ALL WORK REQUIRED WITH ALL OTHER DRAWINGS IN SET.
- L. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL WATER, SANITARY, VENT AND GAS PIPING, VALVES AND APPURTENANCES WITH RELATED STRUCTURAL, HVAC AND ELECTRICAL EQUIPMENT.
- M. FOR CLARITY ON PLANS, NOT ALL VENT PIPING IS SHOWN. CONTRACTOR SHALL GROUP VENT PIPING AND ROUTE TO VENTS AS REQUIRED.
- N. PIPING SHALL BE CONCEALED IN CHASE WALLS, CEILING, BELOW SLAB, ETC., UNLESS INDICATED OTHERWISE. PIPING SHOW OUTSIDE OF WALLS IS FOR CLARITY ONLY.
- O. CONTRACTOR TO COORDINATE ALL PATCHING AND REPAIRING OF WALLS, FLOORS, CEILINGS, ETC., WITH OTHER TRADES AND GENERAL WORK.
- P. WHERE NOT OTHERWISE INDICATED, CONTRACTOR SHALL PROVIDE CLEANOUTS NOT MORE THAN 50 FEET APART, INCLUDING THE DEVELOPED LENGTH OF THE CLEANOUT PIPE IN SANITARY SEWER PIPING 4" AND SMALLER. WHERE NOT INDICATED, CLEANOUTS SHALL BE PLACED IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE, CURRENT EDITION.
- Q. CONTRACTOR SHALL PROVIDE PIPE SLEEVES FOR ALL PLUMBING PIPING THAT PENETRATES FOUNDATIONS AND FLOORS. PENETRATION SHALL BE CODE COMPLIANT, ALLOW PIPE MOVEMENT AND SHALL BE WATERPROOF.
- R. THE LAYOUTS SHOWN ON THESE SHEETS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION AND AS OTHER WORK WILL PERMIT. CHANGES FROM THESE DRAWINGS REQUIRED TO MAKE THIS WORK CONFORM TO THE BUILDING CONSTRUCTION OR OTHER WORK OF OTHER TRADES SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNER, BUT ONLY WITH THE PRIOR APPROVAL OF THE A/E. ALL MAJOR CHANGES SHALL BE SHOWN ON SHOW DRAWINGS AND NOTED AS SUCH TO BE SUBMITTED BEFORE THE CHANGES ARE MADE.
- S. CONTRACTOR SHALL BE RESPONSIBLE FOR AIR SEALING ALL PLUMBING PENETRATIONS IN THE AIR BARRIER.

PLUMBING FIXTURE SCHEDULE				
TAG	DESCRIPTION	MANUFACTURER AND MODEL NO.	FAUCET/FLUSH VALVE/TRIM (WITH SINK) GOOSENECK, LEVER HANDLES	ADDITIONAL REMARKS
HS-1	WALL HUNG, 16"x14"x8" HEAVY GA. 304 STAINLESS STEEL WITH FAUCET	ADVANCED TABCO, 7-PS-49		
SK-1	ACCESSIBLE, SINGLE BOWL, 18GA. STAINLESS STEEL, TOP MOUNT, 19 5/8"x22 3/8"x1-1/2", HOLE PUNCHING SHALL MATCH FAUCET REQUIREMENTS	ELKAY, LRAD202265	KOHLER, K-15275-4	ADA, GOOSENECK, CENTERSET FAUCET, WITH QUARTER-TURN STOPS, BRADED S.S. SUPPLIES, 17GA. C.P. P-TRAP, OFFSET WASTE, ADA PIPE COVERS
MS-1	24"x24"x10" COMPOSITE MOP SINK BASIN WITH MANUAL WALL MOUNTED FAUCET WITH VACUUM BREAKER, PAIL HOOK, WALL BRACE, LEVER OR CROSS HANDLES	ZURN, Z1896-24	CHICAGO, 887-COP	PROVIDE WITH HOSE & HOSE HOLDER, MOP HANGAR, STAINLESS STEEL BUMPER AND WALL GUARDS
HB-1	SELF-DRAINING, CHROME FINISH HYDRANT, VACUUM BREAKER, WHEEL HANDLE	WOODFORD, 24	--	COORDINATE LOCATION WITH A/E AND OWNER
ICB-1	RECESSED ICE MAKER CONNECTION BOX, BALL VALVE, WATER HAMMER ARRESTOR	GUY GRAY, AB9700	--	COORDINATE LOCATION WITH A/E AND OWNER
WHA-1	WATER HAMMER ARRESTOR, BELLOW TYPE	SIoux CHIEF, 650 SERIES	--	--

FLOOR DRAINS, ROOF DRAINS, & CLEANOUT SCHEDULE				
TAG	DESCRIPTION	MANUFACTURER AND MODEL NO.	ADDITIONAL REMARKS	
FD-1	FLOOR DRAIN, ROUND DUCTILE IRON 6.5" STRAINER	SIoux CHIEF, 832-3DR-832-UM	6.5" DIA, HEAVY DUTY STRAINER, S.S. DEBRIS BASKET	
TD-1	LIGHT DUTY, MODULAR, PRE-SLOPED TRENCH DRAINS, 1/4" DIA. PERFORATED S.S. GRATE, 4" SINGLE-POINT OUTLET	JAY R SMITH, 9930 SERIES	S.S. PERFORATED GRATE SUITABLE FOR 1,162PSI, NOMINAL TOTAL LENGTH AS INDICATED ON PLAN. PROVIDE WITH DEEP-SEAL TRAP. COORDINATE EXACT LENGTH & LOCATION WITH OWNER	
COTG	CLEANOUT TO GRADE, ADJUSTABLE ROUND COATED C.I., NICKEL COVER	SIoux CHIEF, 851-64NS	NICKEL BRONZE, SECURED TOP	
COTF	FLOOR CLEANOUT, ADJUSTABLE ROUND COATED C.I., NICKEL COVER	SIoux CHIEF, 851-64NS	NICKEL BRONZE, SECURED TOP	
COTW	PVC PLUG WITH ROUND STAINLESS STEEL COVER, CHROME BOLT	SIoux CHIEF, 870-96S	20GA. COVER, STAMPED WITH "CO"	

ELECTRIC INSTANTANEOUS WATER HEATER SCHEDULE						
TAG	DESIGN BASE (MAKE & MODEL)	MINIMUM TURN ON (G.P.M.)	MAXIMUM FLOW RATE (G.P.M.)	TEMPERATURE RISE AT 2 G.P.M. (DEGREES F.)	KILOWATTS	ELECTRICAL
WH-1	EEMX, XTP024480	0.5	20.5	82	24	480V/3PH

- NOTES:
- COORDINATE EXACT LOCATION WITH A/E AND OWNER.
 - HIGH TEMPERATURE LIMIT SWITCH.
 - ADJUSTABLE TEMPERATURE SETTINGS: 60 - 180 DEGREES F.
 - OUTLET TEMPERATURE SHALL BE SET AT 130 DEGREES F. (TMV-1).

THERMOSTATIC MIXING VALVE SCHEDULE				
TAG	DESIGN BASE (MAKE & MODEL)	SERVICE	MINIMUM FLOW RATE (G.P.M.)	FLOW RATE AT 10 P.S.I. PRESSURE DROP (G.P.M.)
TMV-1	WATTS, LFFUSG-B-M2	HAND SINKS	0.5	2-5

- NOTES:
- COORDINATE EXACT LOCATION WITH A/E AND OWNER.
 - OUTLET TEMPERATURE SHALL BE SET AT 110 DEGREES F. (TMV-1).

PLUMBING FIXTURE SERVICE SCHEDULE						
TAG	WASTE	TRAP	VENT	COLD	HOT	
HS-1	1-1/2"	1-1/4"	1-1/4"	3/8"	3/8"	
SK-1	2"	1-1/2"	1-1/4"	1/2"	1/2"	
MS-1	3"	3"	1-1/2"	1/2"	1/2"	
HB-1	--	--	--	3/4"	--	
ICB-1	--	--	--	3/8"	--	
FD-1	2"	2"	1-1/2"	--	--	
TD-1	3"	3"	1-1/2"	--	--	

NOTE: ALL WASTE PIPING BELOW SLAB SHALL BE MINIMUM 2" DIAMETER.

