FURNITURE MALL TENANT IMPROVEMENT

INTERIOR IMPROVEMENTS

HIVE DESIGN COLLABORATIVE, INC.
1617 WALNUT ST., KANSAS CITY, MO 64108
816.581.6363

GENERAL PROJECT NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE GOVERNING LAWS AND CODES, AND IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION.

2. GC TO VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. CONTRACTOR ACKNOWLEDGES REVIEW OF CONDITIONS AND INTENT OF ALL CONSTRUCTION DOCUMENTS UPON SUBMITTING BID.

3. CALCULATE AND MEASURE REQUIRED DIMENSIONS. DO NOT SCALE DRAWINGS UNLESS OTHERWISE INDICATED. ALL DIMENSIONS TO BE TAKEN FROM DESIGNATED DATUM POINT. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER GRAPHIC REPRESENTATION. DETAIL DIMENSIONS TAKE PRECEDENCE OVER PLAN DIMENSIONS.

4. ALL ITEMS SUPPLIED BY THE OWNER AND INSTALLED BY THE CONTRACTOR WILL BE COORDINATED BY THE CONTRACTOR FROM DELIVERY TO INSTALLATION.

5. DIMENSIONS ON DRAWINGS ARE TO FACE OF STUD AND CENTERLINE OF COLUMNS UNLESS OTHERWISE NOTED.

6. THE GENERAL CONTRACTOR (GC, HEREAFTER) UPON SIGNING THE OWNER/GC AGREEMENT, ACCEPTS THE CD (INCLUDING THESE DRAWINGS W/ THE INCLUDED NOTES & DESCRIPTIVE MATERIAL) & AGREES TO EXECUTE THE NECESSARY WORK IN MANNER DESCRIBED THEREIN.
   A) UPON EXAMINATION / FAMILIARIZATION OF CD & JOB SITE VISIT, ANY DISCREPANCIES, OMISSIONS, AMBIGUITIES AND/OR CONFLICTS NOTED, SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT IN WRITING, FOR CORRECTION.
   B) ANY ELEMENT, WHATSOEVER, REQUIRED BY BUILDING TO BE INCORPORATED IN CONSTRUCTION BUT NOT SPECIFIED IN CD SHALL BE BROUGHT TO ATTENTION OF ARCHITECT FOR REVIEW/ACTION.
   C) NO MODIFICATIONS / REVISIONS / CHANGES SHALL BE UNDERTAKEN UNLESS SPECIFICALLY SO INSTRUCTED AND APPROVED BY OWNER.
   D) DURING COURSE OF PROJECT, GENERAL CONTRACTOR SHALL MAKE EVERY EFFORT TO FULLY INFORM ALL CONCERNED PARTIES REGARDING DECISIONS/ACTIONS TAKEN WHICH, IN ANY WAY, MIGHT AFFECT ANY SAID CONSTRUCTION CONDITIONS.

7. ALL EXISTING HOLES/CRACKS IN SLAB AND THOSE RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE FILLED/REPAIRED AND THE SURFACE PATCHED SMOOTH AND LEVEL WITH ADJACENT FLOOR SURFACE, IN A MANNER ACCEPTABLE TO OWNER AND ARCHITECT

8. GC SHALL BE RESPONSIBLE FOR FIELD MEASURING OF EXISTING CONDITIONS PRIOR TO START OF WORK AND DURING CONSTRUCTION, AS NECESSARY, TO ASSURE CONSTRUCTION ADHERENCE TO DRAWINGS. BY ENTERING INTO A CONSTRUCTION CONTRACT FOR THIS WORK, GC SHALL INDICATE HIS FAMILIARITY WITH THE SITE/FIELD CONDITIONS.
   A) ALL "HOLD" DIMENSIONS SHALL BE MONITORED TO ASSURE CORRECTNESS.
   B) ANY DIMENSION REVISIONS/MODIFICATIONS ARE TO BE BROUGHT TO ATTENTION OF THE ARCHITECT FOR REVIEW/APPROVAL.

9. ALL VERTICAL DIMENSIONS SHALL BE TAKEN FROM "BENCH MARK" OR OTHER SIMILAR GUIDE ESTABLISHED PRIOR TO START OF CONSTRUCTION. HIGH POINTS, LOW POINTS, IRREGULARITIES IN FLOOR SLAB, PARTICULARLY, WHICH COULD IN ANY WAY AFFECT FABRICATION/INSTALLATION WORK OF OTHER TRADES OR VENDORS (I.E., CABINET CONTRACTORS), SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
   A) VARIATIONS IN FLOOR LEVEL IN EXCESS OF 1/2" FOR EVERY 10'-0" IN EVERY DIRECTION WILL REQUIRE LEVELING OF SLAB BY G.C. LEVELING OF SLAB TO BE DONE AS REQUIRED READY TO RECEIVE FLOOR FINISHES, (I,E, VINYL TILE FLOORS, CARPETING, ETC). G.C. TO VERIFY SLAB CONDITION PRIOR TO BID SUBMISSION AND CONTACT LANDLORD.

10. GC, SUBCONTRACTORS, AND ALL VENDORS ARE TO VERIFY ALL CLEARANCES (CORRIDORS, STAIRS, ELEVATORS, ETC.) REQUIRED FOR DELIVERIES AND PASSAGE OF ALL JOB MATERIALS/EQUIPMENT.

11. ALL NECESSARY WOOD BLOCKING / GROUNDS, ETC., ARE TO BE SUPPLIED AS FIREPROOFED ELEMENTS. GC SHALL FULLY COORDINATE SETTING/PLACEMENT OF THESE ELEMENTS AS REQUIRED BY LOCAL CODE/BUILDING OR SURROUNDINGS.
   A) GROUND/BLOCKING MAY NOT BE WHOLLY SHOWN ON DRAWINGS AND GOOD CONSTRUCTION PRACTICE SHALL GOVERN/DETERMINE SAID USE WHERE A QUESTION ARISES.
   B) GC TO PAY PARTICULAR ATTENTION TO ALL LOCATIONS OF DRYWALL PARTITION CONSTRUCTION THAT ABUT OR RECEIVE MILLWORK OR CABINET WORK CONSTRUCTION.
   INTERNAL WOOD BLOCKING SHALL BE SUPPLIED FOR STURDY ANCHORAGE AT INTERSECTIONS OF WOOD/GLASS BORROWED LIGHT PARTITIONS AND ADJACENT DRYWALL CONSTRUCTION AS REQUIRED.

12. THE CONTRACTOR SHALL INSTALL DUST PROOF CURTAINS BETWEEN THE AREAS TO BE REMODELED AND THE AREAS TO REMAIN UNTIL ALL DUST PRODUCING WORK IS COMPLETED AND ALL DEBRIS IS CLEANED UP.

13. PROTECT THE AREAS OF THE BUILDING NOT BEING REMODELED FROM DAMAGE AT ALL TIMES.

14. KEEP ACCESS TO EMERGENCY EXITS AVAILABLE AT ALL TIMES

15. CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE PROJECT SITE AND DISPOSE IN A LICENSED LANDFILL

GENERAL NOTES

12" = 1'-0"

ABBREVIATIONS

1/4" = 1'-0"

	Above Finish Floor
A.F.F.	Acoustical
ACOUS.	Acoustical Ceiling
ACT	Tile
ADJ	Adjacent, Adjustable
A/C	Air Conditioning
ALT	Alternate
ALUM	Aluminum
ANG	Angle
APPROX	Approximate
ARCH	Architect(ural)
AD	Area Drain
ASPH	Asphalt
BSMT	Basement
BM	Beam
BYND	Beyond
BITUM.	Bituminous
BLK	Block
BLKG	Blocking
BD	Board
BOT	Bottom
BO	Bottom of
B.C.	Bottom of curb
BOS	Bottom of steel
BLDG	Building
BO	By Others/Owner
CAB	Cabinet
CPT	Carpet
C.I.P.	Cast-In-Place
C.B.	Catch Basin
CLG.	Ceiling
CEM.	Cement
CTR	Center
CL	Center Line
C/C	Center to Center
CER.	Ceramic
CT.	Ceramic Tile
C. OF O.	Certificate of Occupancy
C.	Channel
C.O.	Cleanout
CL.	Clear
CLR	Clear
CLOS.	Closet
CW	Cold Water
COL.	Column
CONC	Concrete
CMU	Concrete Masonry Unit
CONF.	Conference
CONST.	Construction
C.M.	Construction Manager
CONT	Continuous
CONTR	Contractor
C.J.	Control Joint
CONV.	Convector
CG	Corner Guard
CORR.	Dark Duty
DB	Decibel
DEG.	Degree
DEPT.	Department
D.O.B.	Dept. Of Building
D.E.P.	Dept. Of Environmental Protection
DTL.	Detail
DIA.	Diameter
DIFF.	Diffuser
DIM.	Dimension
DW	Dishwasher
DISP.	Dispenser
DR	Door
D.O.	Door Opening
DBL.	Double
DN	Down
DWG(S)	Drawing, Drawings
D.F.	Drinking Fountain
EA	Each
EW	Each Way
E	East
EPDM	Elastomeric Roof Membrane
ELECT	Electric, Electrical
ELEC.	Electrical
E.P.	Electrical Panelboard
EL.	Elevation
ELEV.	Elevator
EMER.	Emergency
ENCL.	Enclosure
EQ.	Equal
EQ. EQUIP.	Equipment
EXIST.	Existing
EXP	Expansion
E.J.	Expansion Joint
EXT.	Exterior
EIFS	Exterior Insulation Finish System

FOC	Face of Concrete
FOF	Face of Finish
FOS	Face of Studs
FOW	Face of Wall
FV	Field Verify
FIN.	Finish
F.A.	Fire Alarm
F.E.	Fire Extinguisher
F.E.C.	Fire Extinguisher Cabinet
F.R.	Fire Rated, Fire Retardant
F.S.P.	Fire Stand Pipe
F.V.C.	Fire Valve Cabinet
F.P.	Fireproof
FPSC	Fireproof Self Closing
FIX. FIXT	Fixture
FLASH	Flashing
FL, FLR	Floor
F.D.	Floor Drain
FLUOR.	Fluorescent
FT.'	Foot, Feet
FTG.	Footing
FDN.	Foundation
F.A.I.	Fresh Air Intake
F.S.	Full Size
F.B.O.	Furnished by Others
FURR.	Furring
GALV.	Galvanize
G.	Gas
GA.	Gauge
G.C.	General Contractor
GL.	Glass
G.F.R.C.	Glass Fiber Reinforced Concrete
G.F.R.G.	Glass Fiber Reinforced Gypsum
GR.	Grade
GSF	Gross Square Feet
GND	Ground
GYP.	Gypsum
GYP. BD	Gypsum Wallboard
HDWR	Hardware
HDWD	Hardwood
HD	Head
HTR	Heater
HVAC	Heating, Venting, Air Conditioning
HT.	Height
HPC	High Performance Coating
H.P.	High Point
HWY	Highway
H.C.	Hollow Core
H.M.	Hollow Metal
HORIZ.	Horizontal
H.B.	Hose Bibb
HW	Hot Water
HR	Hour
IN, "	Inside
INC.	Include
I.D.	Inside Diameter
INSUL.	Insulation
INT.	Interior
JAN	Janitor
J.C.	Janitor's Closet
JT.	Joint
JST	Joist
KIT.	Kitchen
K.O.	Knock Out
LS	Life Safety
LAM.	Laminate, Laminated
LAV.	Lavatory
L.H.	Left Hand
L.	Length
LT	Light
L.W.	Lightweight
L.P.	Low Point
MH	Manhole
MFR, MANUF	Manufacturer
M.O.	Masonry Opening
MATL	Material
MAX	Maximum
MECH.	Mechanical
MEPFP	Mechanical, Electrical, Plumbing, Fire Protection
M.E.R.	Mechanical Equipment Room
MDF	Medium Density Fireboard
MEMB.	Membrane
MTL	Metal
MEZZ.	Mezzanine
MIN.	Minimum
MIR	Mirror
MISC.	Miscellaneous
MTD.	Mounted
MTG.	Mounting
MULT.	Multiple
N.R.C.	Noise Reduction Coefficient
NOM.	Nominal
N	North
N.A.	Not applicable
NIC	Not in Contact
N.I.C.	Not in Contract
NTS	Not to Sale
N.T.S.	Not to Scale
NO. NUM, #	Number

OFF.	Office
O.C.	On Center
OPNG.	Opening
OPP.	Opposite
O.H.	Opposite Hand
O.D.	Outer Diameter (Dim.)
OFD	Over Flow Drain
O.A.	Overall
O.R.D.	Overflow Roof Drain
PT	Paint
PTD.	Painted
PR.	Pair
PNL	Panel, Panelboard
PERF.	Perforated
PERP	Perpendicular
PLAS	Plaster
P-LAM	Plastic Laminate
PL.	Plate
PLYWD.	Plywood
PT.	Point
PVC	Polyvinyl Chloride
PSF	Pounds per Sq. Foot
PC	Precast Concrete
PREFAB.	Prefabricated
PRT	Pressure Treated
PROJ	Project
PROP	Property
QTY	Quantity
Q.T.	Quarry Tile
R., RAD.	Radius
RE, REF.	Reference
REINF.	Reinforced
R.C.P.	Reinforced Concrete Pipe
R.A.	Relieving Angle
REQ.	Required
R.H.	Right Hand
R.	Riser
RD.	Road
R.D.	Roof Drain
RM..	Room
R.O.	Rough Opening
RB	Rubber Base
SAB	Sound Attenuation Batt
SCHED.	Schedule
SEC.	Second
SECT.	Section
SHT.	Sheet
SIM.	Similar
S.C.	Solid Core
STC	Sound Transmission Coefficient
S	South
SPKR.	Speaker
SPEC.	Specification
S.F.P.	Spray on Fireproofing
SQ.	Square
S.F.	Square Feet
S.S.	Stainless Steel
ST	Stair
STD.	Standard
STA	Station
STL	Steel
STOR.	Storage
ST.	Street
STRUCT.	Structural
SUSP.	Suspended
SYM	Symmetrical
TEL.	Telephone
T.V.	Television
TEMP.	Temporary
THK	Thick, Thickness
T.&G.	Tongue and Groove
T.O.	Top Of
T.O.B.	Top Of Beam
T.O.C.	Top Of Curb
T.O.S.	Top Of Sidewalk
T.O.W.	Top Of Wall
T	Tread
TYP.	Typical
TW	Through wall
UNFIN.	Unfinished
U.N.O.	Unless Noted Otherwise
V.I.F.	Verify in Field
VERT.	Vertical
VEST.	Vestibule
V.C.P.	Vetrified Clay Pipe
VCT	Vinyl Composition Tile
VWC	Vinyl Wallcovering
W	Water
W.C.	Water Closet
WR.	Water Resistant
WP.	Waterproofing
WT	Weight
WWF	Welded Wire Fabric
W	West
W.F	Wide flange
W	Width
WIN	Window
W, W/O	With, Without
WD.	Wood
YD	Yard

SYMBOLS

12" = 1'-0"

DIVISION 01: GENERAL

- XX / AXXX — BUILDING SECTION / DETAIL SECTION CALLOUT
- XX / AXXX — DETAIL REFERENCE CALLOUT
- XX AXXX — BUILDING ELEVATION CALLOUT
- XX AXXX — INTERIOR ELEVATION CALLOUT
- XXXXX / XXXXX — LEVEL / ELEVATION DESIGNATION
- XXX — DOOR TAG
- X-X — WALL ASSEMBLY TYPE TAG
- X-X — GLAZING ASSEMBLY TYPE TAG
- ROOM NAME / 000 / XX SF — ROOM TAG
- X — DEMOLITION KEY NOTE TAG
- X — GENERAL KEY NOTE TAG
- X — MATERIAL / ACCESSORY KEY NOTE TAG
- X — EQUIPMENT KEY NOTE TAG
- X — CENTER LINES OF COL. / BLDG. GRIDS
- 1 HR - FIRE RATED ASSEMBLY
- 2 HR - FIRE RATED ASSEMBLY
- 2 HOUR SMOKE - FIRE RATED ASSEMBLY
- 4 HOUR - FIRE RATED ASSEMBLY
- SMOKE - FIRE RATED ASSEMBLY
- NEW WALL
- EXISTING WALL

DIVISION 03: CONCRETE

- CAST-IN-PLACE CONCRETE
- PRECAST CONCRETE
- PRECAST CONCRETE WALL
- PRECAST CONCRETE COLUMN
- CAST-IN-PLACE CONCRETE WALL & CAST-IN-PLACE COLUMN

DIVISION 04: MASONRY

- BRICK
- CONCRETE MASONRY UNIT
- CUT STONE
- CAST STONE
- BRICK PAVER
- LIMESTONE
- QUARRY TILE
- GROUT

DIVISION 05: METALS

- STEEL/ IRON (LARGE SCALE)
- ALUMINUM
- OTHER METALS (TBD PER PROJECT)

DIVISION 06: WOOD AND PLASTICS

- WOOD (DIMENSION) (THROUGH MEMBER)
- WOOD BLOCKING (DIMENSION) (INTERRUPTED MEMBER)
- PLYWOOD
- WOOD (FINISH)
- HARDBOARD
- PARTICLE BOARD
- SOLID SURFACE MATERIAL

DIVISION 07: THERMAL & MOISTURE PROTECTION

- RIGID INSULATION
- FIREPROOFING / FIRESTOPPING INSULATION
- BLANKET INSULATION
- LOOSE FILL INSULATION
- SEALANT W/ BACKER ROD
- MEMBRANE WATERPROOFING & DRAINAGE MAT COMPOSITE SYSTEM
- SPRAY-ON FIREPROOFING

DIVISION 08: DOORS & WINDOWS

- GLASS INSULATING
- GLASS ELEVATION
- PLASTIC GLAZING
- NEW DOUBLE DOOR
- NEW SINGLE DOOR
- NEW SWINGING DOOR
- NEW DOUBLE ACTING DOOR
- EXISTING DOUBLE DOORS
- EXISTING SINGLE DOOR

DIVISION 09: FINISHES

- LATH AND PLASTER
- GYPSUM BOARD
- CERAMIC TILE
- CEILING PANEL
- CARPET

HIVE

FURNITURE MALL TENANT IMPROVEMENT

900 NW BLUE PARKWAY
LEE'S SUMMIT, MO 64086

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seal/signature

STATE OF MISSOURI
LOGAN HAYES NUMBER A-2015040535
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SYMBOLS AND ABBREVIATIONS

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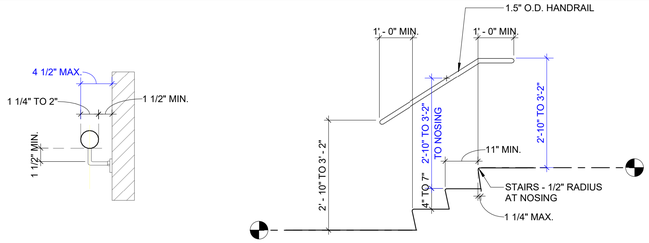

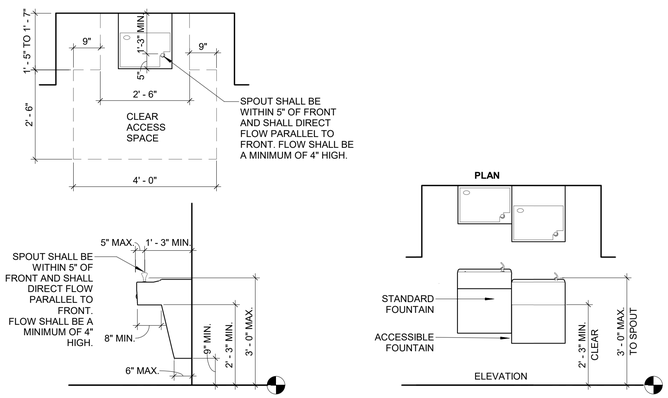

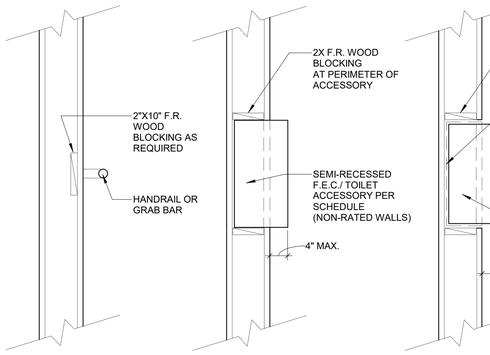

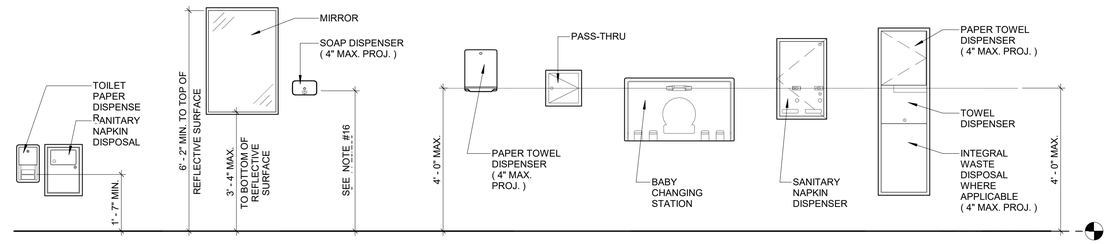

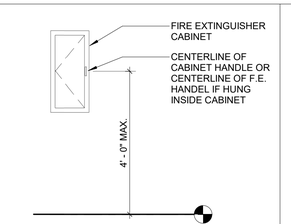

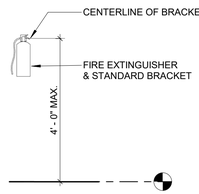

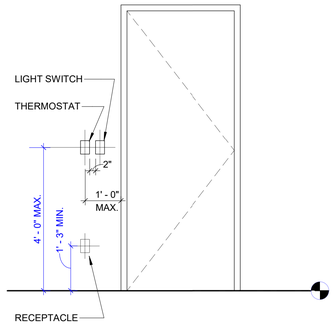

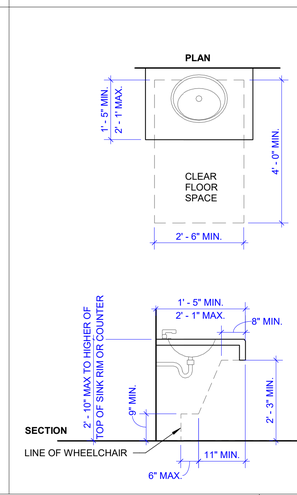

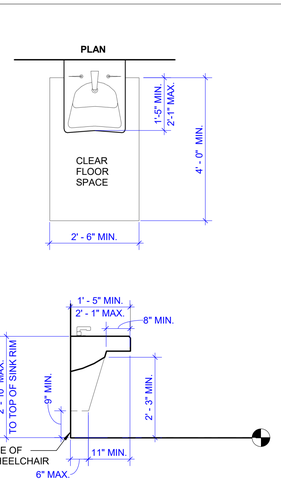

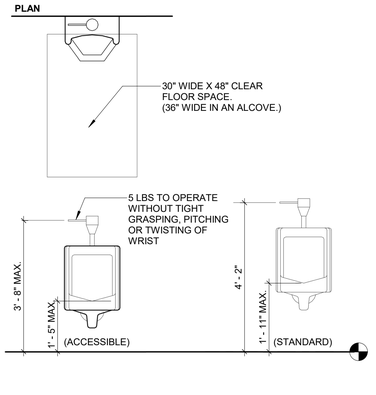

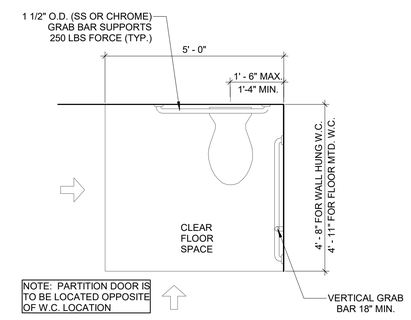

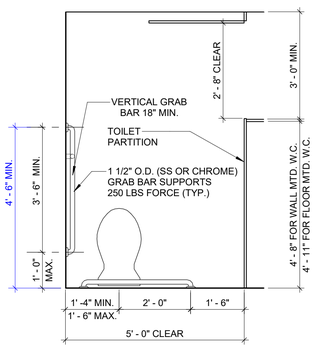

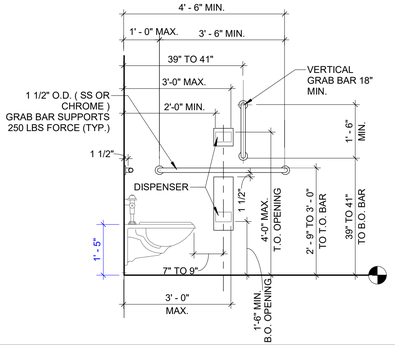

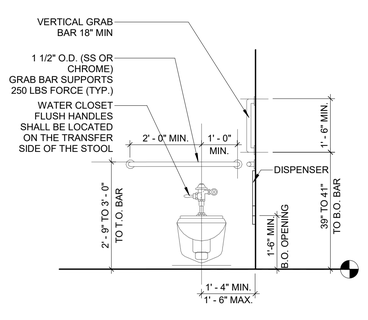

NOTES

GENERAL NOTES - ACCESSIBILITY GUIDELINES:

1. NOTE: ALL DIMENSIONS ARE MEASURED FROM FLOOR, UNLESS NOTED OR SHOWN OTHERWISE.
2. ADA UNOBSTRUCTED REACH RANGES: ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
3. ELEVATORS: STANDARD CALL BUTTONS: 35" TO 48" TO C.L. & PROTRUDE 1" MAX. ADA CALL BUTTONS: 42" TO C.L. (TYP.) & 48" MAX. (3/4" SMALLEST DIM.). ADA VISIBLE SIGNALS: 72" MIN. TO C.L. (2 1/2" SMALLEST DIM.). TACTILE SIGNAL ON HOISTWAY: 60" TO BASE OFCHARACTERS W/ TACTILE STAR & 2" HIGH CHARACTERS.
4. DOOR HARDWARE (TO CENTER OF HARDWARE): STANDARD MOUNTING HEIGHTS: PUSH PLATES = 42", PULL HANDLES = 42", KNOBS/ LEVERS = 40", PANIC EXIT = 42" CENTERLINE OF BAR, KICKPLATES: WIDTH = DOOR WIDTH MINUS 2", CENTER, HEIGHT = 16" FROM B.O. DOOR. THRESHOLDS: STANDARD = 1/2" MAX. AT EXT. SLIDING DOORS = 3/4" MAX., ADA HARDWARE = 34" MIN. TO 48" MAX.
5. DRINKING FOUNTAINS & EWC'S (TO SPOUT): STANDARD = 38" MIN., 43" MAX. ADA =36" MAX. (27" MIN. CLEAR KNEE SPACE)
6. COUNTERTOPS (TO SINK RIM/ COUNTERTOP): ADA = 28" MIN. TO 34" MAX.
7. WATER CLOSETS (TO TOP OF SEAT): STANDARD = 14" TO 15". ADA (TO TOP OF SEAT) = 17" TO 19". ADA FLUSH CONTROLS = 44" MAX.
8. URINALS (TO RIM): STANDARD = 24" MAX. ADA =17" MAX. ADA FLUSH CONTROLS = 44" MAX.
9. LAVATORIES (TO SINK RIM/ COUNTERTOP): STANDARD = 36" MAX. ADA = 34" MAX. (29" MIN. CLEAR KNEE SPACE)
10. MIRRORS (TO B.O. REFLECTIVE SURFACE): STANDARD = VARIES. ADA = 40" MAX.
11. GRAB BARS - ADA (TO TOP OF BAR): WATER CLOSETS = 33" MIN. TO 36" MAX. SHOWERS = 33" MIN. TO 36" MAX. (FROM B.O.SHOWER). BATHTUBS: TOP BAR = 33" MIN. TO 36" MAX. BOT. BAR = 9" ABOVE T.O. TUB
12. SHOWER HEADS (FROM FLOOR TO HEAD): STANDARD = 72" TO 84". ADA = SPRAY UNIT W/ HOSE 60" LONG MIN. ADA = FIXED SHOWER HEAD = 48" AFF.
13. SHOWER CONTROLS (TO CONTROL AREA): STANDARD = 48" MAX. (TO TOP). ADA = 38" MIN. TO 48" MAX.
14. SHOWER ROD (FROM FLOOR TO C.L.): STANDARD = 78" MAX.
15. TOILET ROOM PARTITIONS: TOILETS = 12" TO BOT. & 70" TO TOP. URINALS = 18" TO BOT. & 60" TO TOP
16. TOILET PAPER DISPENSERS (TO C.L. OF OUTLET): STANDARD = 24". ADA = 19" MIN. TO 24" MAX
17. WALL MOUNTED SOAP DISPENSERS (TO C. L. OF PUSH BUTTON): STANDARD = 40". ADA = VARIES. RE: OBSTRUCTED AND UNOBSTRUCTED REACH RANGES. ADA SIDE REACH = 46" MAX. ABOVE SINK INCOUNTER.
18. PAPER TOWEL DISPENSER/ WASTE RECEPTACLE (TO TOWEL SLOT): STANDARD = 40" MAX. ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
19. WARM AIR HAND DRYER (TO PUSH SWITCH): STANDARD = 44" MAX. ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
20. SANITARY NAPKIN DISPENSER (TO C.L. OF COIN SLOT): STANDARD = 40" MAX. ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
21. SANITARY NAPKIN DISPOSAL (TO TOP OF UNIT): STANDARD = 28" MAX. ADA = 19" MIN. TO 24" MAX. (TO OPNG.)
22. TOILET SEAT COVER DISPENSERS (TO OPNG.): STANDARD = 40" MAX. ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
23. SHELVES: ADA = 48" MAX.
24. COAT HOOKS: STANDARD = 68", ADA = 48" MAX.
25. CHALKBOARDS, TACKBOARDS,& MARKERBOARDS: STANDARD = 32" TO 39" (TO B.O. BOARD OR CHALKTRAY). STANDARD = 80" (RECOMMENDED, TO T.O. BOARD)
26. THERMOSTATS & CONTROL DEVICES (TO TOP): ADA FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX.
27. LIGHT SWITCHES & CARD READERS (TO C.L.): LOCATE 6" FROM DOOR JAMB. ADA = 48" MAX.
28. CONVENIENCE RECEPTACLES – ELECTRICAL/ TELEPHONE/ DATA (TO C.L.): STANDARD = 18". ADA = 15" MIN.
29. EXIT LIGHTS - WALL MOUNTED: 2" MIN. BELOW CEILING, 2" MIN. ABOVE DOOR FRAME. EQUAL SPACE FROM CEILING TO TOP OF FRAME
30. FIRE EXTINGUISHERS (TO TOP, U.N.O.): GROSS WT. 40 LBS. OR LESS = 60" MAX. GROSS WT. MORE THAN 40 LBS. = 42" MAX. ADA = 40" MAX. (B.O. CABINET)
31. FIRE ALARM PULL STATIONS (TO LEVER): STANDARD = 48" MAX. ADA FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX.
32. SMOKE AND/OR HEAT DETECTORS: STANDARD = CEILING HEIGHT
33. HORN/ SPEAKER/ VISUAL SIGNALS: STANDARD = 80" AFF. OR 6" BELOW CEILING - WHICHEVER IS LOWER.
34. ROOM SIGNAGE (TO C.L.): STANDARD = 60" HIGH AFF. & WITHIN 18" OFLATCH SIDE OF DOOR

HIVE

FURNITURE MALL TENANT IMPROVEMENT

900 NW BLUE PARKWAY
LEE'S SUMMIT, MO 64086

HIVE DESIGN COLLABORATIVE, INC.
1617 WALNUT STREET, KANSAS CITY, MO 64108
816.581.6363

seal/signature

STATE OF MISSOURI
LOGAN HAYES NUMBER A-2015010635
ARCHITECT
02/11/22

project number	2021-055
date	02.10.2022
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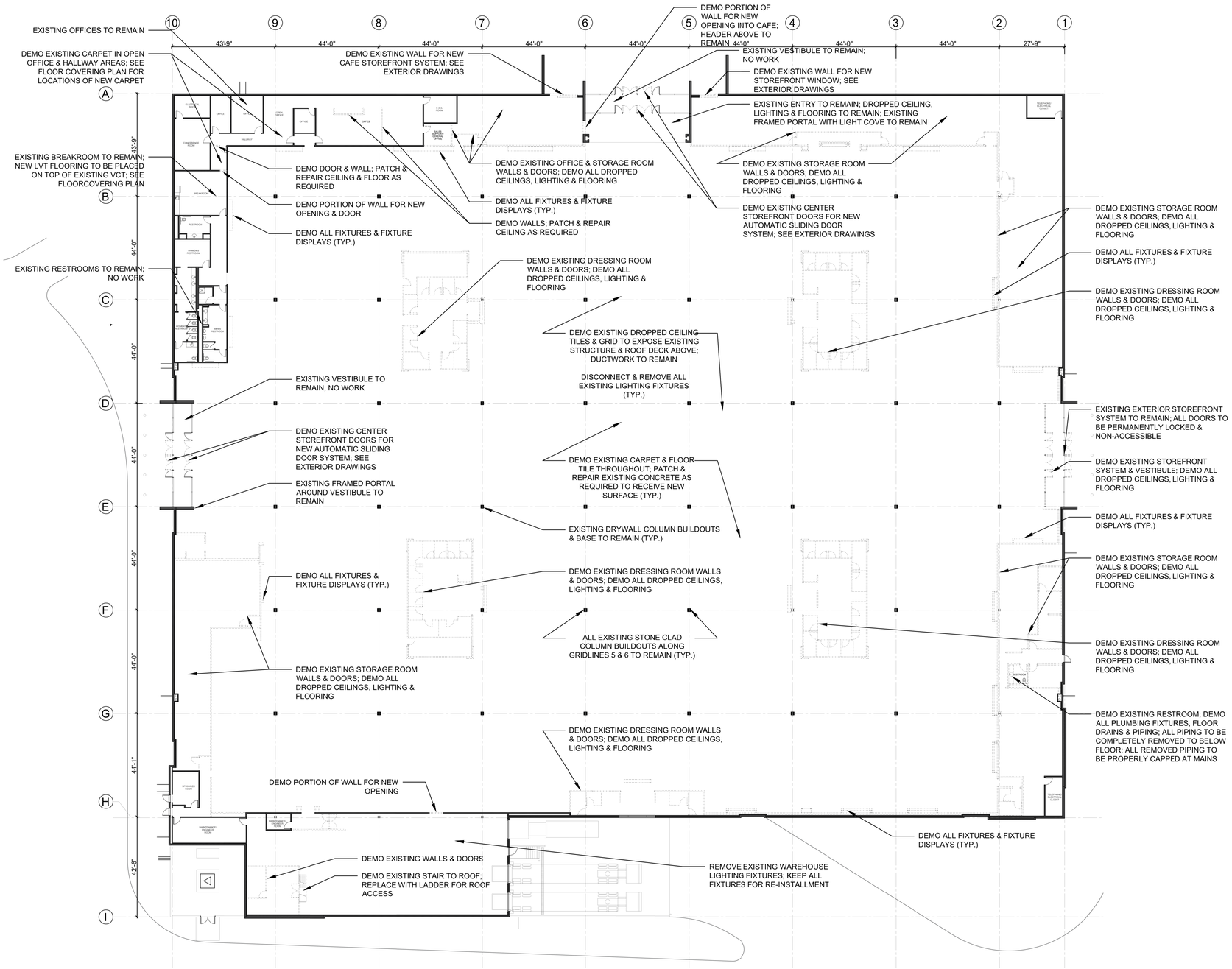
rev	date	description

ACCESSIBILITY GUIDELINES

sheet number

G003



DEMO LEGEND

- EXISTING WALLS TO BE REMOVED
- EXISTING WALLS TO REMAIN
- EXISTING DOORS TO BE REMOVED
- EXISTING WINDOWS TO BE REMOVED

NOTES

1. ALL AREAS AND COMPONENTS EXISTING TO REMAIN TO BE PROTECTED DURING DEMO .
2. REMOVE ALL ABANDONED ELECTRICAL WIRING, CABLE, PIPING AND SURFACE MOUNTED CONDUIT AND RECEPTACLES, BACK TO ORIGINAL SOURCE, UNLESS OTHERWISE SPECIFIED.
3. ALL CUTTING, PATCHING & DEMOLITION WORK TO BE CLOSELY COORDINATED WITH EXISTING CONDITIONS & REQUIRED NEW WORK.
4. G.C. TO PATCH & FINISH PENETRATIONS OF EXISTING SURFACES TO MATCH ADJACENT SURFACES.

DEMOLITION PLAN

NTS

HIVE

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LOGAN HAYES
NUMBER A-2015040635
ARCHITECT

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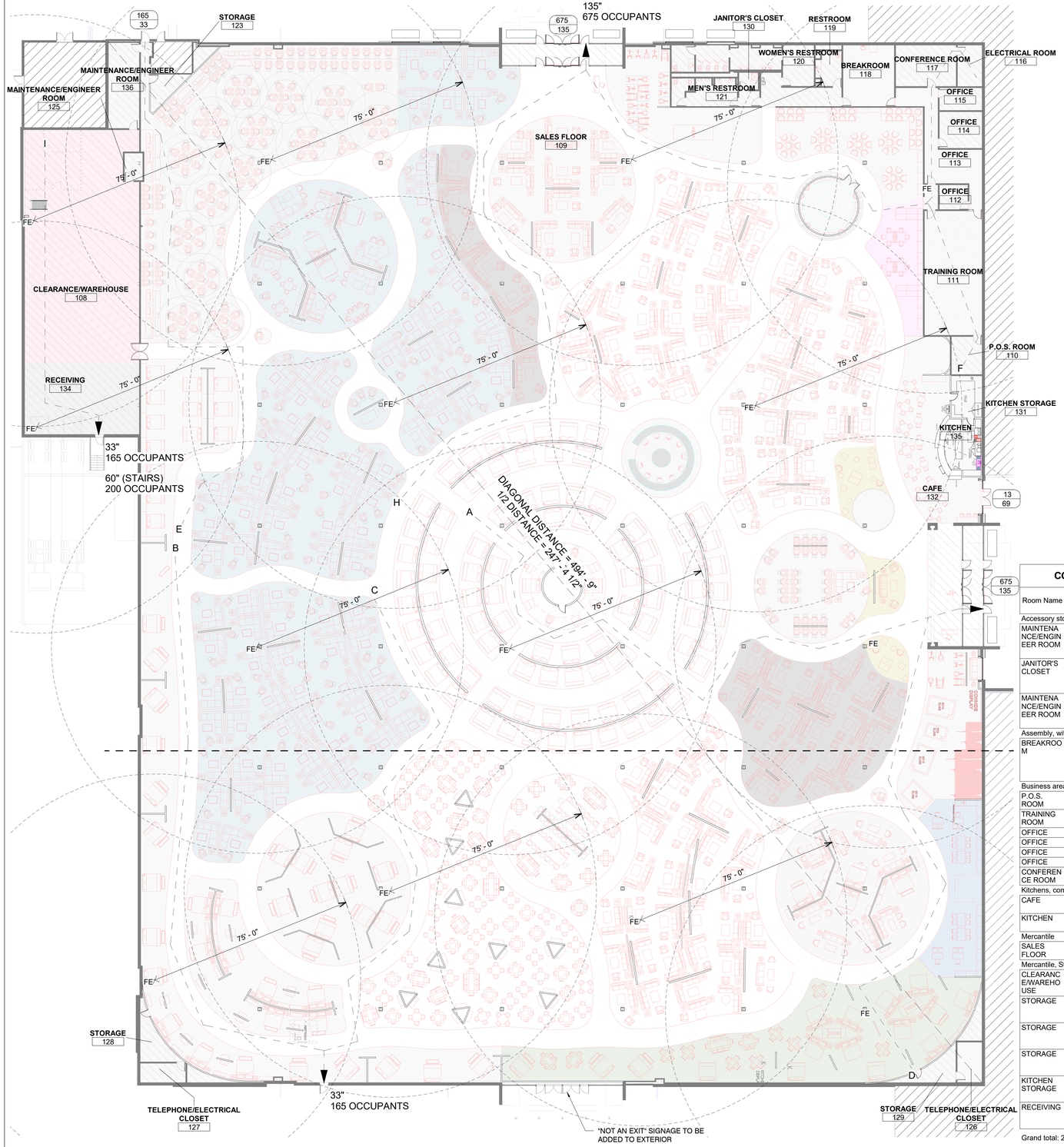
DEMOLITION PLAN

sheet number

AD110



CODE - OCCUPANCY CALCULATIONS

Room Name	Rm #	Area	Space Function (1004.1.2)	Load Factor	Net or Gross (1004.1.2)	# of People
Accessory storage areas, mechanical equipment rooms						
MAINTENANCE/ENGINEER ROOM	125	66 SF	Accessory storage areas, mechanical equipment rooms	300	gross	0.2
JANITOR'S CLOSET	130	43 SF	Accessory storage areas, mechanical equipment rooms	300	gross	0.1
MAINTENANCE/ENGINEER ROOM	136	351 SF	Accessory storage areas, mechanical equipment rooms	300	gross	1.2
Assembly, without fixed, Unconcentrated (tables and chairs)						
BREAKROOM	118	390 SF	Assembly, without fixed, Unconcentrated (tables and chairs)	15	net	26.0
Business areas						
P.O.S. ROOM	110	155 SF	Business areas	150	gross	1.0
TRAINING ROOM	111	951 SF	Business areas	150	gross	6.3
OFFICE	112	93 SF	Business areas	150	gross	0.6
OFFICE	113	304 SF	Business areas	150	gross	2.0
OFFICE	114	207 SF	Business areas	150	gross	1.4
OFFICE	115	130 SF	Business areas	150	gross	0.9
CONFERENCE ROOM	117	328 SF	Business areas	150	gross	2.2
Kitchens, commercial						
CAFE	132	1,064 SF	Kitchens, commercial	200	gross	5.3
KITCHEN	135	299 SF	Kitchens, commercial	200	gross	1.5
Mercantile						
SALES FLOOR	109	106,681 SF	Mercantile	60	gross	1778.0
Mercantile, Storage, stock, shipping areas						
CLEARANCE/WAREHOUSE	108	3,500 SF	Mercantile, Storage, stock, shipping areas	300	gross	11.7
STORAGE	123	112 SF	Mercantile, Storage, stock, shipping areas	300	gross	0.4
STORAGE	128	156 SF	Mercantile, Storage, stock, shipping areas	300	gross	0.5
STORAGE	129	145 SF	Mercantile, Storage, stock, shipping areas	300	gross	0.5
KITCHEN STORAGE	131	172 SF	Mercantile, Storage, stock, shipping areas	300	gross	0.6
RECEIVING	134	1,078 SF	Mercantile, Storage, stock, shipping areas	300	gross	3.6
Grand total: 20		116,223 SF				1844.0

1 **LIFE SAFETY PLAN**

1" = 20'-0"

0' 5' 10' 20' 40'

VICINITY MAP

CODE INFORMATION SUMMARY:

SUBJECT	DATA		REFERENCE
PROJECT DESCRIPTION	RENOVATION OF AN EXISTING MERCANTILE BUILDING TO ACCOMMODATE A NEW MERCANTILE TENANT		
JURISDICTION	LEE'S SUMMIT BUILDING DEPT		
APPLICABLE CODE	2018 IBC		
ADA STANDARDS	2010 ADA STANDARDS FOR ACCESSIBLE DESIGN		
OCCUPANCY CLASS	M (NO CHANGE)		SECTION 303
CONSTRUCTION TYPE	IIB (NO CHANGE)		SECTION 601
FIRE RESISTANCE	STRUCTURAL FRAME	-	SECTION 601
	BEARING WALLS, EXT.	-	
	NON BEARING WALLS	-	
	FLOOR CONSTRUCTION	-	
	ROOF CONSTRUCTION	-	
FIRE PROTECTION	AUTOMATIC SPRINKLER	EXISTING	CHAPTER 9
	FIRE ALARM SYSTEM	EXISTING	
	FIRE EXTINGUISHER(S)	REQUIRED	
ALLOWABLE HEIGHT AND AREA	55', UNLIMITED		SECTION 504 & 506
FLOOR AREA (GROSS)	118,712		TABLE 1004.5
OCCUPANT LOAD	1850		TABLE 1004.5
EXITS REQUIRED	4		SECTION 1006
EXITS PROVIDED	6		
EXIT ACCESS TRAVEL DISTANCE	250'		SECTION 1016

PLUMBING FIXTURE REQUIREMENT: IBC 2018 TABLE 2902.1

PLUMBING FIXTURE	MALE		FEMALE		TOTAL	
	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED
WATER CLOSETS	2	2	2	4	-	-
LAVATORIES	2	2	2	2	-	-
DRINKING FOUNTAINS	-	-	-	-	2	2
SERVICE SINKS	-	-	-	-	1	#

EGRESS (MAXIMUM TRAVEL...	
TYPE	DISTANCE
Egress Path A	240' - 2"
Egress Path B	230' - 4"
Egress Path C	212' - 11"
Egress Path D	207' - 8"
Egress Path E	216' - 3"
Egress Path F	223' - 9"
Egress Path G	242' - 4"
Egress Path H	217' - 1"
Egress Path I	118' - 9"

CODE PLAN LEGEND

ROOM OCCUPANT LOAD

101 — ROOM NUMBER

ROOM NAME
150 SF — SQUARE FEET OF SPACE OR ROOM

XXX / XX — ALLOWABLE NUMBER OF OCCUPANTS / EXIT WIDTH IN INCHES

2-HR RATED WALL

1-HR RATED WALL

EXIT WIDTH FACTORS:
STAIRS: 0.3" PER OCCUPANT SERVED
DOORS: 0.2" PER OCCUPANT SERVED

FDC — FIRE DEPARTMENT CONNECTION

K.B. — KNOX BOX

F.E.C. — FIRE EXTINGUISHER CABINET

R.F.A.A.P. — REMOTE FIRE ALARM ANNUNCIATOR PANEL

F.A.C.P. — FIRE ALARM CONTROL PANEL

CODE INFORMATION

HIVE

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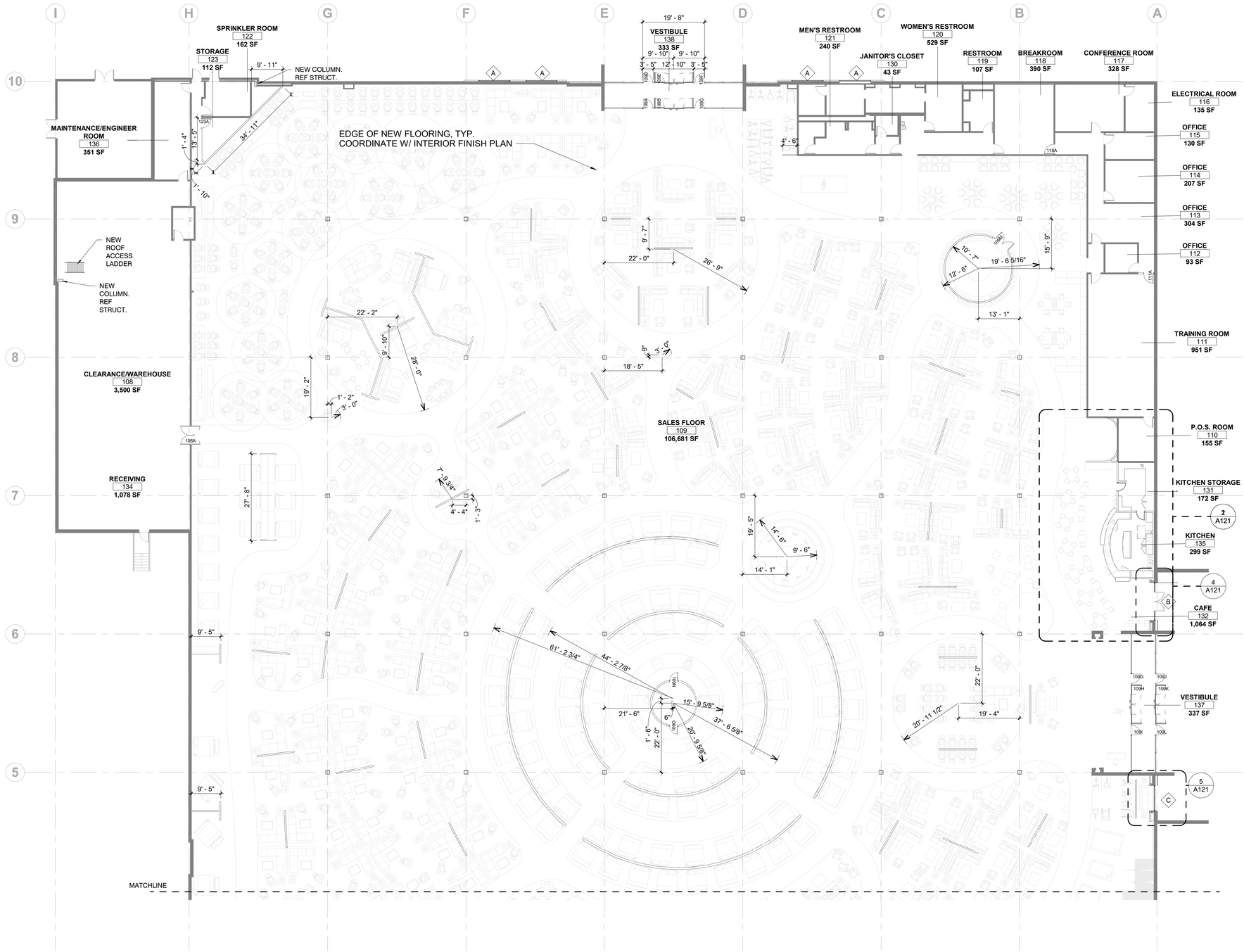
CODE FLOOR PLAN

sheet number

G111



1	**FLOOR PLAN**	
	1/16" = 1'-0"	

0' 4' 8' 16' 32'

GENERAL NOTES - FLOOR PLANS:

1. DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF GYP. BOARD/ WALL (FOG), FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
2. DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE CENTERED IN WALL SHOWN OR LOCATED 4 INCHES FROM FINISH WALL TO HINGE SIDE OF THE DOOR, ALWAYS ALLOWING A MINIMUM OF 18" FROM THE PULL SIDE (STRIKE SIDE) OF THE DOOR TO THE INTERSECTING WALL, OR OTHER PROTRUDING OBJECTS.
3. ALL CLOSETS AND ALCOVES WITHOUT A SPACE IDENTIFICATION NUMBER SHALL HAVE THE SAME FINISHES AS THE ADJOINING SPACES.
4. ALL PUBLIC SPACES: THE WALLS WILL BE FINISHED WITH 5/8" GYP. BD. TO A LEVEL 4 FINISH AND PAINTED, UNLESS NOTED OR SPECIFIED OTHERWISE.
5. RE: FINISH LEGEND, FINISH SCHEDULE AND SPECIFICATIONS FOR DOOR AND DOOR FRAME FINISHES.
6. ALL GLAZING IN CODE SPECIFIED "HAZARDOUS LOCATIONS" (i.e. DOORS, SIDE LITES, ETC.) SHALL COMPLY WITH THE SAFETY GLAZING REQUIREMENTS AS OUTLINED IN SECTIONS 2406 AND 2406.3 OF THE IBC.
7. CONTRACTOR TO COORDINATE WITH OWNER AND INTERIOR FINISHES PLAN EXACT STORE MERCHANDISE LAYOUT AND MOVABLE WALL LOCATIONS.
8. CONTRACTOR TO PROVIDE AND DESIGN SPRINKLER MODIFICATION FOR NEW WORK AREAS PER CURRENT CODE. CONTRACTOR TO VERIFY EXISTING SYSTEM. SHOP DRAWINGS TO BE SUBMITTED TO AND APPROVED BY GOVERNING AUTHORITIES AND ARCHITECT.
9. ALL EXISTING EXIT DOORS HAVE PANIC HARDWARE. CONTRACTOR TO VFERIFY ALL DOORS AND HARDWARE FUNCTION PROPERLY
10. PROVIDE AND INSTALL FIRE EXTINGUISHERS. COORDINATE SIZE AND LOCATION WITH FIRE DEPARTMENT.
11. CONTRACTOR TO PATCH AND REPAIR FINISHES TO REMAIN TO MATCH EXISTING ADJACENT FINISHES AND CONSTRUCTION WHERE AFFECTED BY FLOOR SLAB SAW CUTTING. POUR BACK CONCRETE INFILL TO MATCH EXISTING ADJACENT CONCRETE SUBFLOOR AND PREPARE FOR NEW FINISHES PER THE OWNER.

	NOTES
	1/4" = 1'-0"

HIVE

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LEE'S SUMMIT, MO 64086

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seal/signature

MISSOURI STATE LOGAN HAYES NUMBER A-2015040635 ARCHITECT

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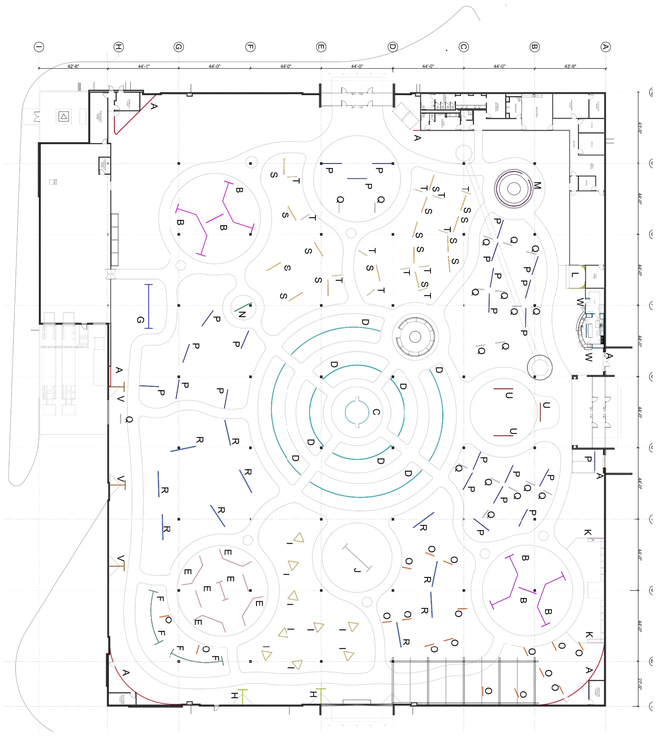
FLOOR PLAN

sheet number

A111

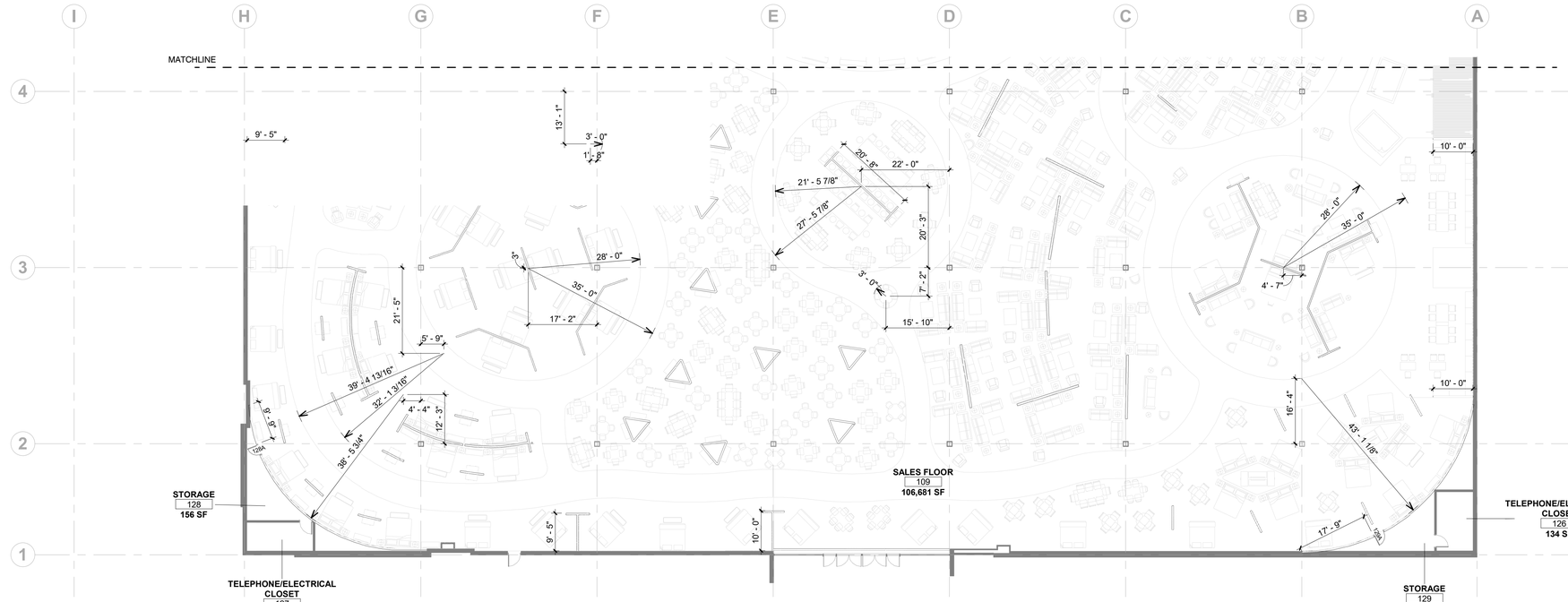


	TYPE		QUANTITY
A		INDICATES FULL HEIGHT FIXED WALLS TO UNDERSIDE OF ROOF DECK	N/A
B		INDICATES 11'-0" HIGH MOVABLE MOTION/ UPHOLSTERY FEATURE CIRCLE WALLS	QTY: 6
C		INDICATES 18'-0" HIGH FIXED MATTRESSES STORAGE WALLS	QTY: 1
D		INDICATES LOW MOVABLE CURVED/ SLOPED MATTRESSES WALLS	QTY: 8
E		INDICATES 11'-0" HIGH MOVABLE BEDROOMS FEATURE CIRCLE WALLS	QTY: 7
F		INDICATES 12'-0" HIGH MOVEABLE BEDROOM I-WALL UNITS WITH 6'-0" ENDCAPS	QTY: 4
G		INDICATES 10'-0" HIGH MOVABLE BEDROOM I-WALL UNIT WITH 5'-0" END CAPS	QTY: 1
H		INDICATES 12'-0" HIGH MOVABLE T-WALL UNITS WITH 6'-0" END CAPS	QTY: 2
I		INDICATES 10'-0" HIGH MOVEABLE TRIANGULAR DINING WALL UNIT WITH WHEELS	QTY: 9
J		INDICATES 10'-0" HIGH MOVABLE DINING I-WALL UNIT WITH 5'-0" END CAPS	QTY: 1
K		INDICATES 10'-0" LONG X 12'-0" HIGH FIXED DESIGN CENTER WALLS	QTY: 2
L		INDICATES FULL HEIGHT FIXED IMMERSION ROOM WALL TO UNDERSIDE OF ROOF DECK	QTY: 1

	TYPE		QUANTITY
M		INDICATES 3'-0" HIGH FIXED CURVED FURNITURE FACTORY WALLS	QTY: 1
N		INDICATES 12'-0" LONG X 10'-0" HIGH MOVABLE VR/ GAMING WALL	QTY: 1
O		INDICATES 6'-0" LONG X 12'-0" HIGH MOVABLE WALL UNIT	QTY: 17
P		INDICATES 12-0" LONG X 11'-0" HIGH MOVABLE WALL UNIT	QTY: 24
Q		INDICATES 6'-0" LONG X 11'-0" HIGH MOVABLE WALL UNIT	QTY: 18
R		INDICATES 16'-0" LONG X 12'-0" HIGH MOVABLE WALL UNIT	QTY: 10
S		INDICATES 10'-0" LONG X 10'-0" HIGH MOVABLE WALL UNIT	QTY: 16
T		INDICATES 6'-0" LONG X 10'-0" HIGH MOVABLE WALL UNIT	QTY: 12
U		INDICATES 12-0" LONG X 3'-6" HIGH MOVABLE WALL UNIT	QTY: 3
V		INDICATES 11'-0" HIGH MOVABLE T-WALL UNITS WITH 6'-0" END CAPS	QTY: 3
W		INDICATES 12'-0" HIGH FIXED CAFE WALLS	N/A

MERCHANDISE PLAN

NTS



1 FLOOR PLAN

1/16" = 1'-0"

0' 4' 8' 16' 32'

NOTES

1/4" = 1'-0"

GENERAL NOTES - FLOOR PLANS:

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FLOOR PLAN

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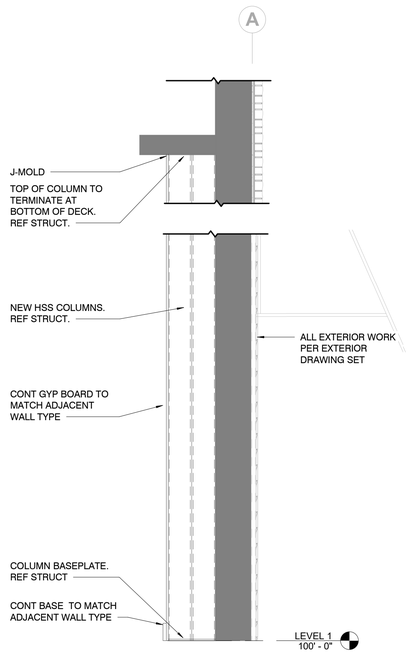
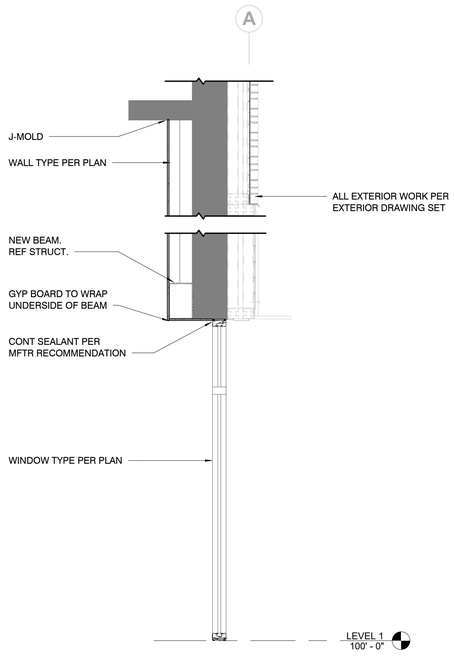


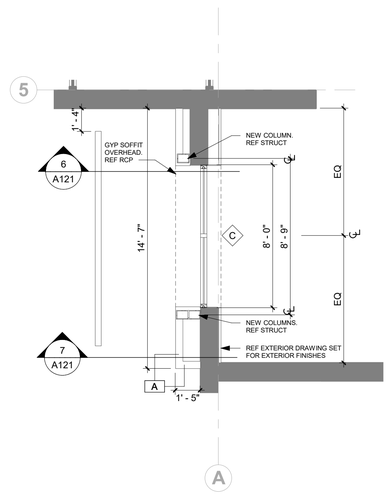
7 WALL SECTION

1/2" = 1'-0"



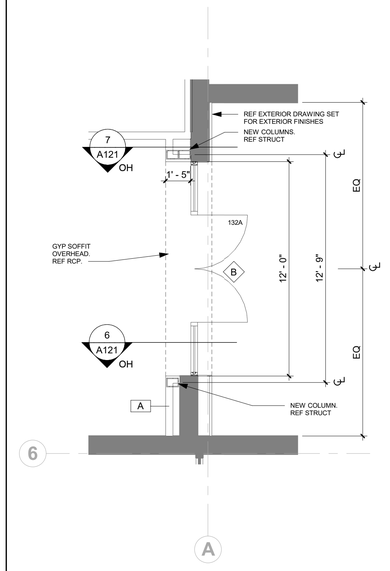
6 WALL SECTION

1/2" = 1'-0"



5 ENLARGED FLOOR PLAN

1/4" = 1'-0"



4 ENLARGED FLOOR PLAN

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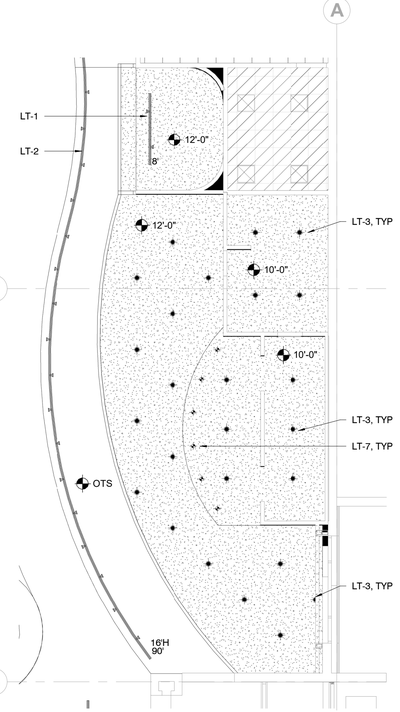
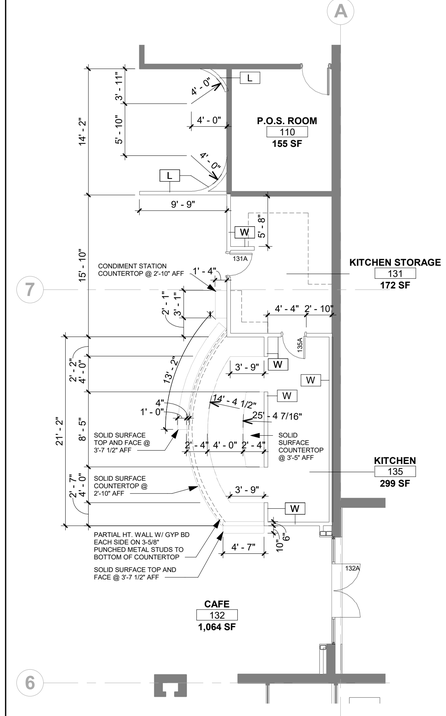


3 ENLARGED CAFE RCP

1/8" = 1'-0"



2 ENLARGED CAFE PLAN

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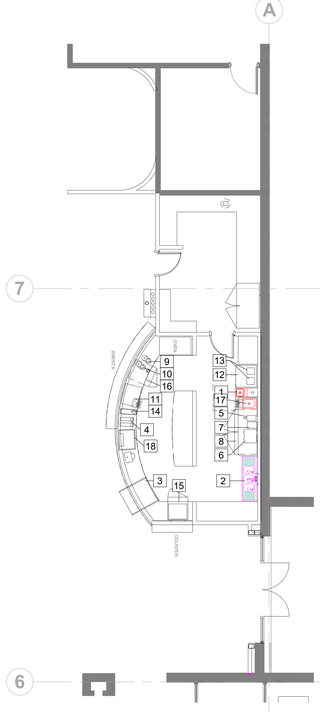

1 ENLARGED CAFE FIXTURE PLAN

1/8" = 1'-0"

EQUIPMENT SCHEDULE				
MARK	QTY	MANUFACTURER	EQUIPMENT	MODEL NUMBER
1	1	ADVANCE TABCO	SINK, DROP-IN	D1-I-1-SP
2	1	KROWNE METAL	UNDERBAR SINK	21-53C
3	1	STRUCTURAL CONCEPTS	DISPLAY CASE, MULTI TEMPERATURE	C323667
4	6	SAN JAMAR	DISPENSER, CUP	C2210C18
5	1	BUNN-O-MATIC	DISPENSER, HOT WATER	H5X
6	1	FETCO	COFFEE MAKER, AUTOMATIC	CBS-2032E
7	1	DITTING	COFFEE GRINDER	120V 750W
8	1	TRUE FOOD SERVICE	REFRIGERATOR, UNDERCOUNTER, COMPACT	TUC-60
9	1	ANFIM BEST	COFFEE GRINDER	ECA
10	1	MAZZER	COFFEE GRINDER	ROBUR
11	1	LA MARZOCCO	ESPRESSO MACHINE	LINEA EE 2GRP
12	1	MANITOWOC ICE	ICE MAKER W/ BIN	QD-0272A
13	2	BLENDTEC	ON COUNTER BLENDER	EZ SERIES
14	1	ESPRESSO PARTS	SINK, MISC.	PITCHER RINSER
15	1	TURBO AIR	FREEZER, WORKTOP	TWF-28SD
16	1	TRUE FOOD SERVICE	REFRIGERATOR, UNDERCOUNTER, COMPACT	TUC-27-ADA
17	1	ADVANCE TABCO	HAND SINK, WALL MOUNT	7-PS-56
18	1	PACIFIC STAINLESS PRODUCTS	DRIP TRAY, DROP-IN	DP20X24 CUSTOM

NOTES

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5. RE: FINISH LEGEND, FINISH SCHEDULE AND SPECIFICATIONS FOR DOOR AND DOOR FRAME FINISHES.
6. ALL GLAZING IN CODE SPECIFIED "HAZARDOUS LOCATIONS" (i.e. DOORS, SIDE LITES, ETC.) SHALL COMPLY WITH THE SAFETY GLAZING REQUIREMENTS AS OUTLINED IN SECTIONS 2406 AND 2406.3 OF THE IBC.
7. CONTRACTOR TO COORDINATE WITH OWNER AND INTERIOR FINISHES PLAN EXACT STORE MERCHANDISE LAYOUT AND MOVABLE WALL LOCATIONS.
8. CONTRACTOR TO PROVIDE AND DESIGN SPRINKLER MODIFICATION FOR NEW WORK AREAS PER CURRENT CODE. CONTRACTOR TO VERIFY EXISTING SYSTEM. SHOP DRAWINGS TO BE SUBMITTED TO AND APPROVED BY GOVERNING AUTHORITIES AND ARCHITECT.
9. ALL EXISTING EXIT DOORS HAVE PANIC HARDWARE. CONTRACTOR TO VFERIFY ALL DOORS AND HARDWARE FUNCTION PROPERLY
10. PROVIDE AND INSTALL FIRE EXTINGUISHERS. COORDINATE SIZE AND LOCATION WITH FIRE DEPARTMENT.

HIVE

FURNITURE MALL TENANT IMPROVEMENT

900 NW BLUE PARKWAY
LEE'S SUMMIT, MO 64086

HIVE DESIGN COLLABORATIVE, INC.
1617 WALNUT STREET, KANSAS CITY, MO 64108
816.581.6363

seal/signature

STATE OF MISSOURI
LOGAN HAYES
NUMBER A-2015040635
ARCHITECT
02/11/22

project number	2021-055
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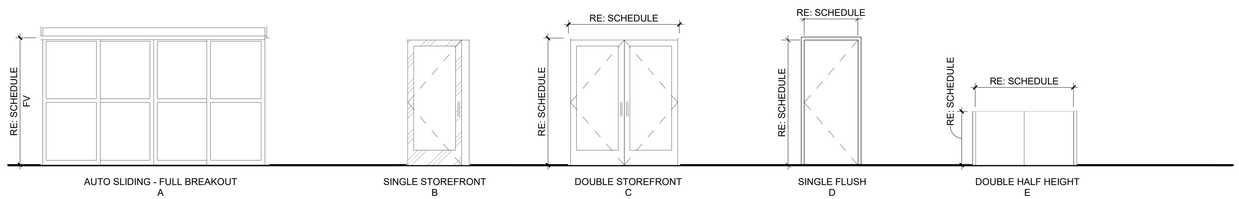
ENLARGED FLOOR PLANS AND WALL SECTIONS

sheet number

A121

DOOR SCHEDULE

DOOR #	ROOM: NAME	WIDTH	HEIGHT	DOOR MATERIAL	DOOR TYPE	FRAME MATERIAL	HARDWARE	HEAD	JAMB	REMARKS
108A	CLEARANCE/WAREHOUSE	6' - 0"	7' - 0"	WD	D	HM	STOREROOM - DOUBLE ACTING	2/A511	1/A511	
109A	SALES FLOOR	3' - 0"	7' - 0"	AL/GL	B	AL	EGRESS	PER MFTR	PER MFTR	
109B	SALES FLOOR	12' - 5"	7' - 0"	AL/GL	A	AL	EGRESS	PER MFTR	PER MFTR	
109C	SALES FLOOR	3' - 0"	7' - 0"	AL/GL	B	AL	EGRESS	PER MFTR	PER MFTR	
109D	VESTIBULE	3' - 0"	7' - 0"	AL/GL	B	AL	EGRESS	PER MFTR	PER MFTR	
109E	VESTIBULE	12' - 5"	7' - 0"	AL/GL	A	AL	EGRESS	PER MFTR	PER MFTR	
109F	VESTIBULE	3' - 0"	7' - 0"	AL/GL	B	AL	EGRESS	PER MFTR	PER MFTR	
109G	SALES FLOOR	3' - 0"	7' - 0"	AL/GL	B	AL	EGRESS	PER MFTR	PER MFTR	
109H	SALES FLOOR	12' - 5"	7' - 0"	AL/GL	A	AL	EGRESS	PER MFTR	PER MFTR	
109I	SALES FLOOR	3' - 0"	7' - 0"	AL/GL	B	AL	EGRESS	PER MFTR	PER MFTR	
109J	VESTIBULE	3' - 0"	7' - 0"	AL/GL	B	AL	EGRESS	PER MFTR	PER MFTR	
109K	VESTIBULE	12' - 5"	7' - 0"	AL/GL	A	AL	EGRESS	PER MFTR	PER MFTR	
109L	VESTIBULE	3' - 0"	7' - 0"	AL/GL	B	AL	EGRESS	PER MFTR	PER MFTR	
109M	SALES FLOOR	5' - 6"	3' - 0"	WD	E	HM	PASSAGE	---	1/A511	
109N	SALES FLOOR	2' - 6"	7' - 0"	WD	D	HM	STOREROOM	2/A511	1/A511	
109O	SALES FLOOR	2' - 6"	7' - 0"	WD	D	HM	STOREROOM	2/A511	1/A511	
111A	TRAINING ROOM	3' - 0"	7' - 0"	WD	D	HM	PASSAGE	2/A511	1/A511	
118A	BREAKROOM	3' - 0"	7' - 0"	WD	D	HM	PASSAGE	2/A511	1/A511	
123A	STORAGE	3' - 0"	7' - 0"	WD	D	HM	STOREROOM	2/A511	1/A511	
128A	STORAGE	2' - 6"	7' - 0"	WD	D	HM	STOREROOM	2/A511	1/A511	
129A	SALES FLOOR	2' - 6"	7' - 0"	WD	D	HM	STOREROOM	2/A511	1/A511	
131A	KITCHEN STORAGE	2' - 6"	7' - 0"	WD	D	HM	STOREROOM	2/A511	1/A511	
132A	CAFE	6' - 0"	7' - 0"	AL/GL	C	AL	EGRESS	PER MFTR	PER MFTR	
135A	KITCHEN	2' - 6"	7' - 0"	WD	D	HM	STOREROOM	2/A511	1/A511	



DOOR TYPES

1/4" = 1'-0"

DOOR HEADER / JAMB SCHEDULE

OPENING	HEADER	JAMB STUDS
UP TO 4'-0"	2'-6" 18 GA	(2) 18 GA
4'-1" TO 8'-0"	2'-8" 16 GA	(3) 18 GA
8'-1" TO 12'-0"	2'-10" 16 GA	(4) 18 GA

NOTES:

1. FOR OPENINGS GREATER THAN 12'-0": STUDS ARE SUPPORTED VERTICALLY BY STRUCTURE AND HORIZONTALLY BY DIAGONAL BRACING. PROVIDE HEADER AND JAMB STUDS PER 8'-0" OPENING.

2. INCREASE JAMB STUD GAUGE IF HEIGHT REQUIRES IT.

GENERAL NOTES:

1. HM REFERS TO HOLLOW METAL
2. AL REFERS TO ALUMINUM
3. WD REFERS TO WOOD
4. ALL EXTERIOR ALUMINUM DOORS & FRAMES ARE TO BE FINISHED TO MATCH ADJACENT ALUMINUM WINDOW FRAME. U.N.O.
5. REFER TO FINISH SCHEDULE FOR FINISH OF INTERIOR DOORS AND FRAMES.
6. ALL GLAZING IN CODE SPECIFIED "HAZARDOUS LOCATIONS" (i.e. DOORS, SIDE LITES, ETC.) SHALL COMPLY WITH THE SAFETY GLAZING REQUIREMENTS AS OUTLINED IN SECTIONS 2406 AND 2406.3 OF THE IBC.

NOTES

1 1/2" = 1'-0"

HIVE

FURNITURE MALL TENANT IMPROVEMENT

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LEE'S SUMMIT, MO 64086

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816.581.6363

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STATE OF MISSOURI
LOGAN HAYES NUMBER A-2015010635
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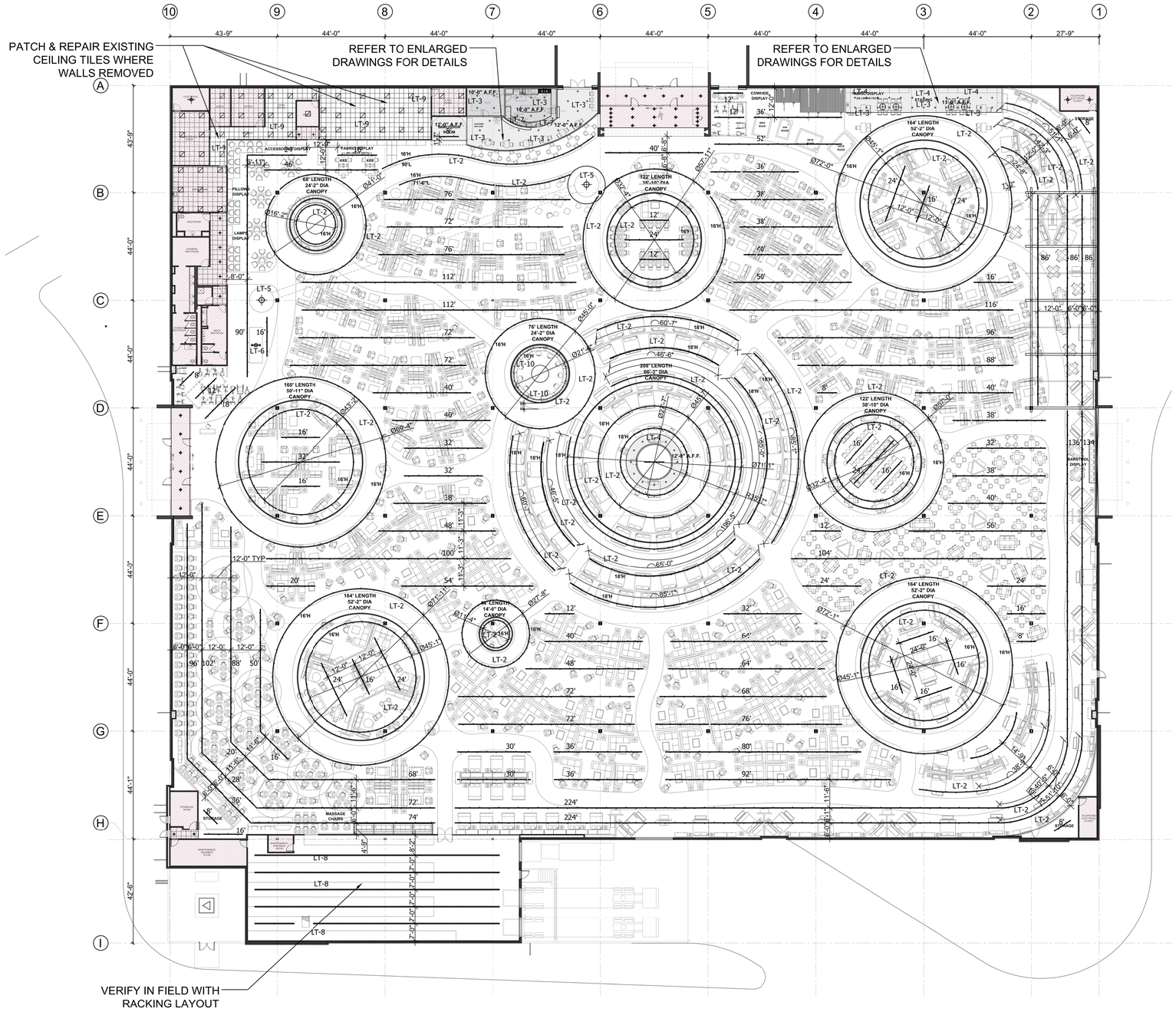
DOOR TYPES AND SCHEDULE

sheet number

A511



INDICATES NO WORK

**** ALL LINEAR TRACK LIGHTING AT 14'H UNLESS OTHERWISE NOTED**

BREAKDOWN

LT-1 INDICATES LINEAR TRACK LIGHTING
11'-0" A.F.F.
8 FOOT
6 FOOT
4 FOOT

LT-2 INDICATES CURVED TRACK LIGHTING

LT-3 INDICATES RECESSED LIGHT FIXTURES

LT-4 INDICATES RECESSED WALL WASHER LIGHTS

LT-5 INDICATES SILO PENDANT LIGHTS

LT-6 INDICATES GAS STATION STREET LAMP

LT-7 INDICATES CUSTOMER CAFE COUNTER PENDANT LIGHTING

LT-8 INDICATES EXISTING WAREHOUSE LINEAR LIGHTING

LT-9 INDICATES 2'X 2' CEILING GRID WITH 2'X 2' RECESSED LIGHTS

REFLECTED CEILING PLAN

NTS

HIVE

FURNITURE MALL TENANT IMPROVEMENT
900 NW BLUE PARKWAY
LEE'S SUMMIT, MO 64086

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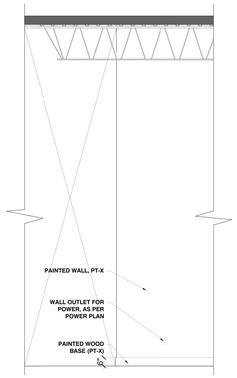
REFLECTED CEILING PLAN

sheet number

A611

PLAN

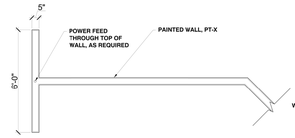


SIDE ELEVATION

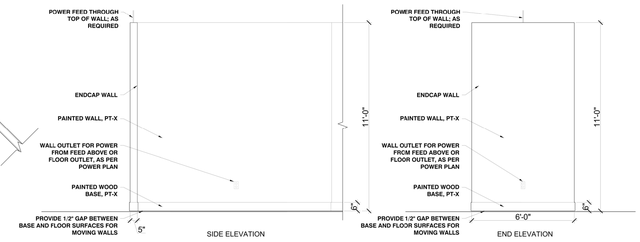
TYPE A

INDICATES FULL HEIGHT FIXED WALLS TO UNDERSIDE OF ROOF DECK

** ALL DRAWINGS REPRESENT DESIGN INTENT ONLY, NOT FOR CONSTRUCTION. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN FIELD.



PLAN

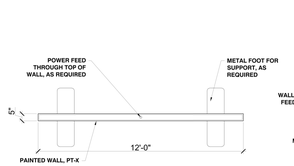


SIDE ELEVATION

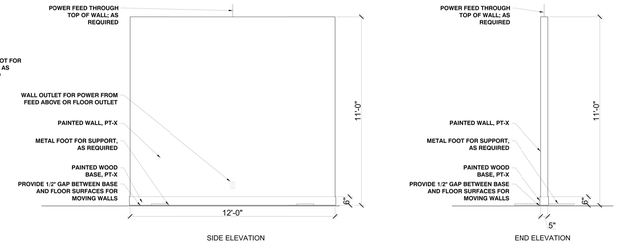
END ELEVATION

TYPE B

INDICATES 11'-0" HIGH MOVABLE MOTION/ UPHOLSTERY FEATURE CIRCLE WALLS



PLAN



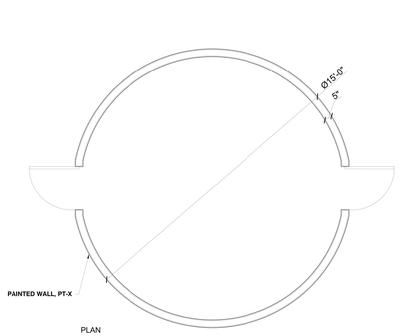
SIDE ELEVATION

END ELEVATION

TYPE B-2

INDICATES 11'-0" HIGH MOVABLE MOTION/ UPHOLSTERY FEATURE CIRCLE WALLS

** ALL DRAWINGS REPRESENT DESIGN INTENT ONLY, NOT FOR CONSTRUCTION. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN FIELD.



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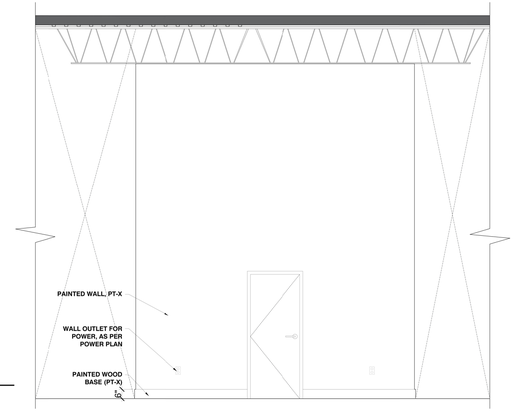
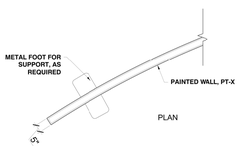


ELEVATION

TYPE C

INDICATES 18'-0" HIGH FIXED MATTRESSES STORAGE WALLS



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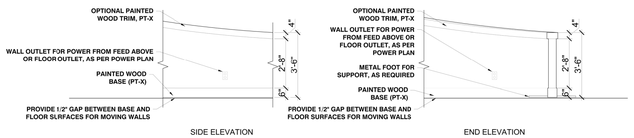


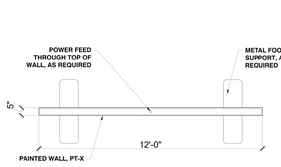
SIDE ELEVATION

END ELEVATION

TYPE D

INDICATES LOW MOVABLE CURVED/ SLOPED MATTRESSES WALLS

** ALL DRAWINGS REPRESENT DESIGN INTENT ONLY, NOT FOR CONSTRUCTON. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN FIELD.



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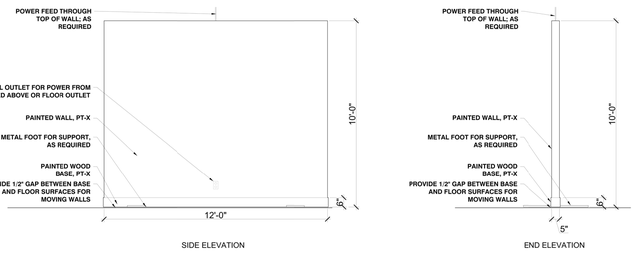
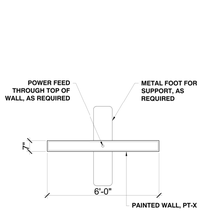


SIDE ELEVATION

END ELEVATION

TYPE N

INDICATES 12'-0" LONG X 10'-0" HIGH MOVABLE VR/ GAMING WALL



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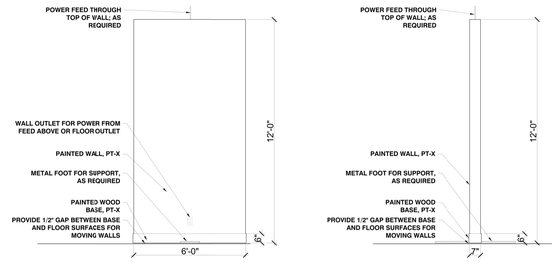

SIDE ELEVATION

END ELEVATION

TYPE O

INDICATES 6'-0" LONG X 12'-0" HIGH MOVABLE WALL UNIT

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WALL TYPE DETAILS

NTS

HIVE

FURNITURE MALL TENANT IMPROVEMENT

900 NW BLUE PARKWAY
LEE'S SUMMIT, MO 64086

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LOGAN HAYES NUMBER A-2015040635 ARCHITECT
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project number	2021-055
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WALL TYPE DETAILS

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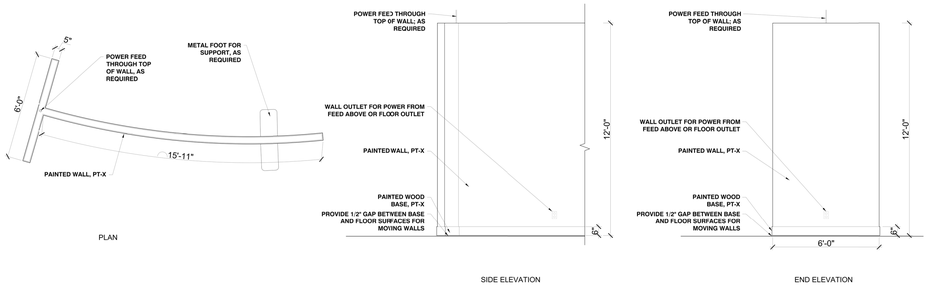
A821



PLAN

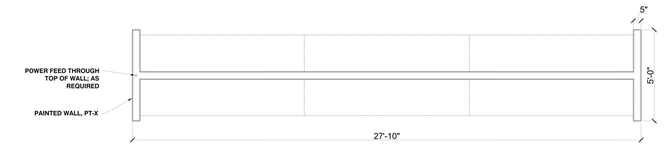
SIDE ELEVATION

END ELEVATION

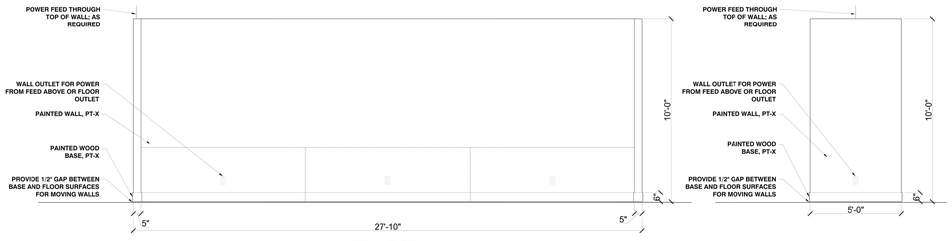
TYPE F

INDICATES 12'-0" HIGH MOVEABLE BEDROOM I-WALL UNITS WITH 6'-0" ENDCAPS

** ALL DRAWINGS REPRESENT DESIGN INTENT ONLY. NOT FOR CONSTRUCTION. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN FIELD.



PLAN



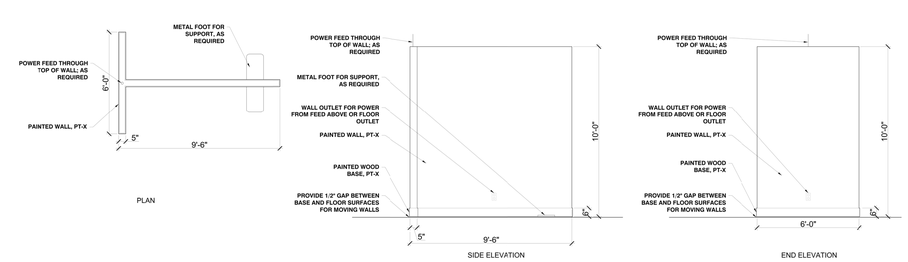
SIDE ELEVATION

END ELEVATION

TYPE G

INDICATES 10'-0" HIGH MOVABLE BEDROOM I-WALL UNIT WITH 5'-0" END CAPS

** ALL DRAWINGS REPRESENT DESIGN INTENT ONLY. NOT FOR CONSTRUCTION. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN FIELD.



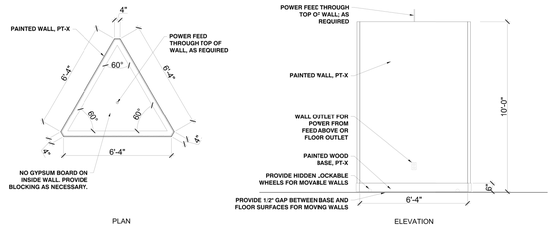
PLAN

SIDE ELEVATION

END ELEVATION

TYPE H

INDICATES 12'-0" HIGH MOVABLE T-WALL UNITS WITH 6'-0" END CAPS



PLAN

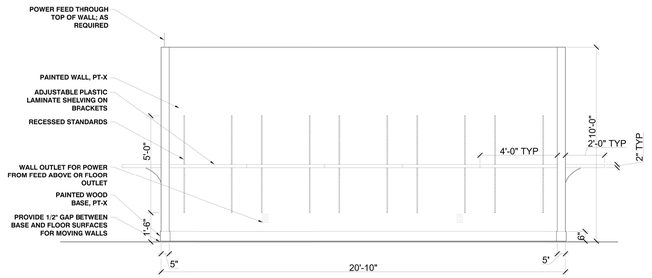
ELEVATION

TYPE I

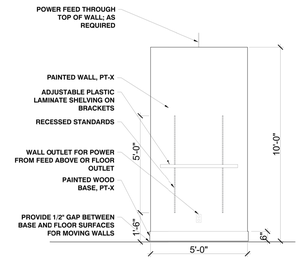
INDICATES 10'-0" HIGH MOVEABLE TRIANGULAR DINING WALL UNIT WITH WHEELS

** ALL DRAWINGS REPRESENT DESIGN INTENT ONLY. NOT FOR CONSTRUCTION. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN FIELD.

PLAN



SIDE ELEVATION



END ELEVATION

TYPE J

INDICATES 10'-0" HIGH MOVABLE DINING I-WALL UNIT WITH 5'-0" END CAPS

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WALL TYPE DETAILS

NTS

HIVE

FURNITURE MALL TENANT IMPROVEMENT

900 NW BLUE PARKWAY
LEE'S SUMMIT, MO 64086

HIVE DESIGN COLLABORATIVE, INC.
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WALL TYPE DETAILS

sheet number

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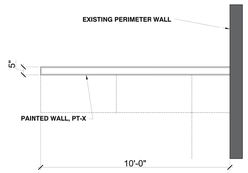
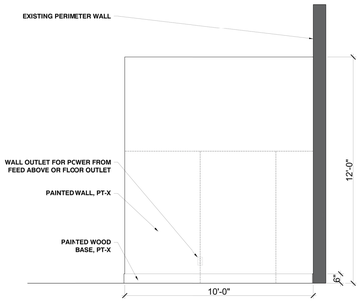
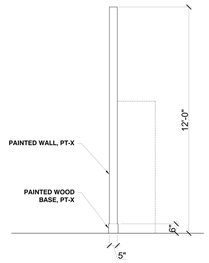


PLAN



SIDE ELEVATION



END ELEVATION

TYPE K

INDICATES 10'-0" LONG X 12'-0" HIGH FIXED DESIGN CENTER WALLS

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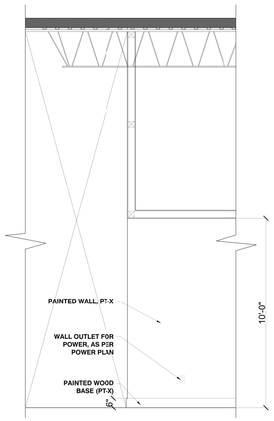
PLAN



SIDE ELEVATION

TYPE L

INDICATES FULL HEIGHT FIXED IMMERSION ROOM WALL TO UNDERSIDE OF ROOF DECK

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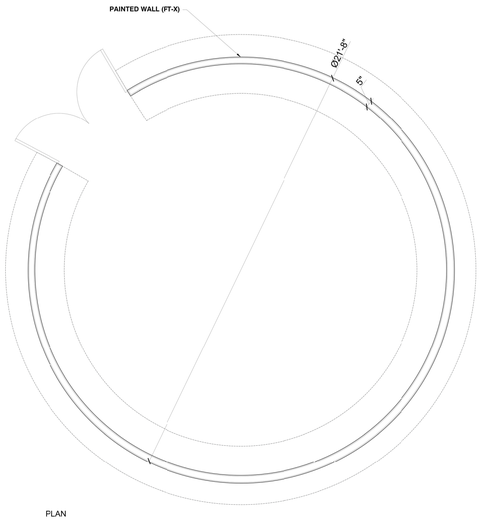
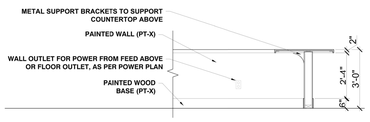


PLAN

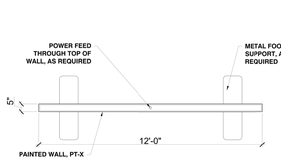
TYPE M

INDICATES 3'-0" HIGH FIXED CURVED FURNITURE FACTORY WALLS

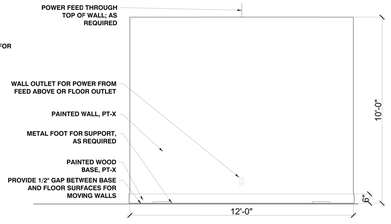


SECTION ELEVATION

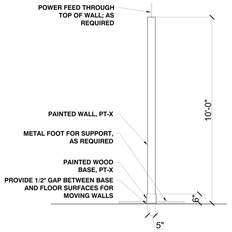
** ALL DRAWINGS REPRESENT DESIGN INTENT ONLY. NOT FOR CONSTRUCTION. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN FIELD.



PLAN



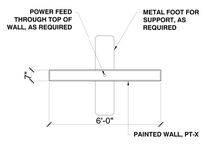
SIDE ELEVATION



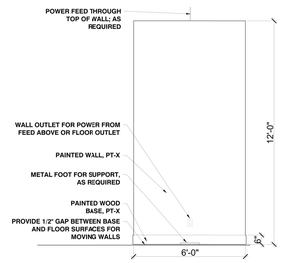
END ELEVATION

TYPE N

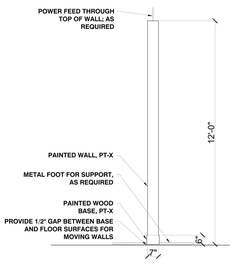
INDICATES 12'-0" LONG X 10'-0" HIGH MOVABLE VR/ GAMING WALL



PLAN



SIDE ELEVATION



END ELEVATION

TYPE O

INDICATES 6'-0" LONG X 12'-0" HIGH MOVABLE WALL UNIT

** ALL DRAWINGS REPRESENT DESIGN INTENT ONLY. NOT FOR CONSTRUCTION. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN FIELD.

WALL TYPE DETAILS

NTS

HIVE

FURNITURE MALL TENANT IMPROVEMENT

900 NW BLUE PARKWAY
LEE'S SUMMIT, MO 64086

HIVE DESIGN COLLABORATIVE, INC.
1617 WALNUT STREET, KANSAS CITY, MO 64108
816.581.6363

seal/signature

STATE OF MISSOURI
LOGAN HAYES NUMBER A-2015040535 ARCHITECT
02/11/22

project number 2021-055

date 02.10.2022

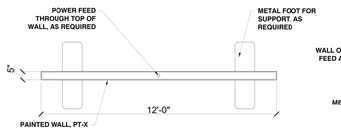
issued for PERMIT

rev	date	description

WALL TYPE DETAILS

sheet number

A823



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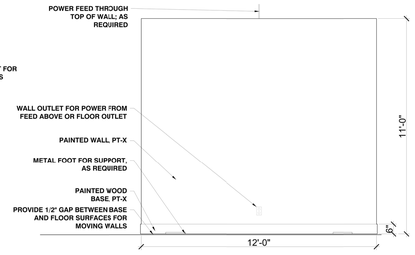
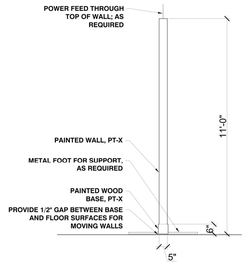


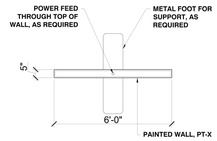
SIDE ELEVATION



END ELEVATION

TYPE P

INDICATES 12-0" LONG X 11'-0" HIGH MOVABLE WALL UNIT



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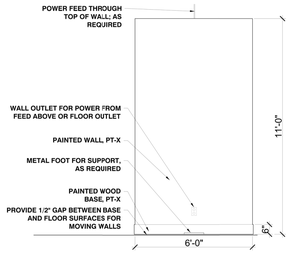

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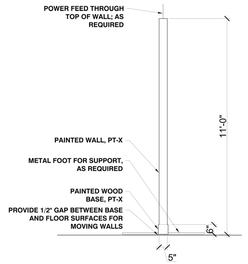
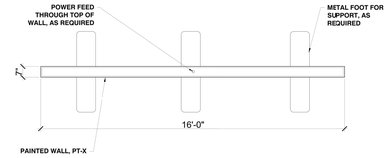


END ELEVATION

TYPE Q

INDICATES 6'-0" LONG X 11'-0" HIGH MOVABLE WALL UNIT

** ALL DRAWINGS REPRESENT DE
INTENT ONLY. NOT FOR CONSTR
CONTRACTOR TO VERIFY ALL EO
CONDITIONS AND DIMENSONS IN



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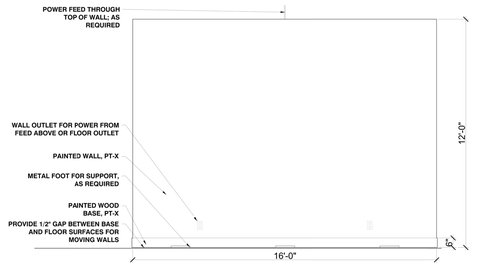

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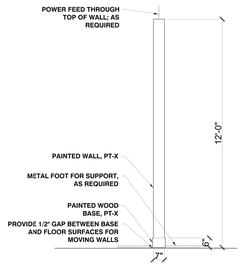

END ELEVATION

TYPE R

INDICATES 16'-0" LONG X 12'-0" HIGH MOVABLE WALL UNIT

** ALL DRAWINGS REPRESENT DESIGN
INTENT ONLY. NOT FOR CONSTRUCTION.
CONTRACTOR TO VERIFY ALL EXISTING
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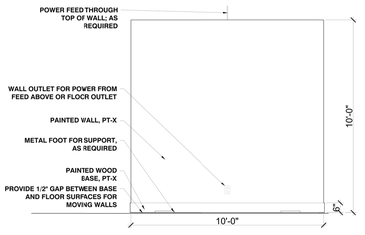
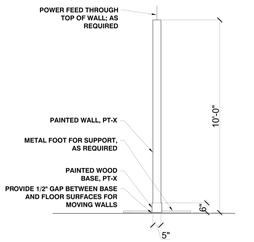
PLAN



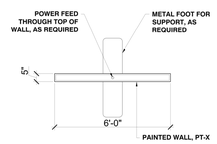
SIDE ELEVATION



END ELEVATION

TYPE S

INDICATES 10'-0" LONG X 10'-0" HIGH MOVABLE WALL UNIT



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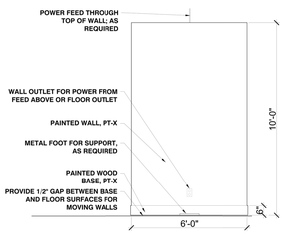
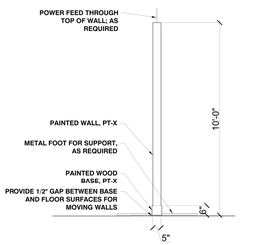


SIDE ELEVATION



END ELEVATION

TYPE T

INDICATES 6'-0" LONG X 10'-0" HIGH MOVABLE WALL UNIT

** ALL DRAWINGS REPRESENT DESIGN
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CONTRACTOR TO VERIFY ALL EXISTING
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WALL TYPE DETAILS

NTS

HIVE

FURNITURE MALL TENANT IMPROVEMENT

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LEE'S SUMMIT, MO 64086

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816.581.6363

seal/signature

STATE OF MISSOURI
LOGAN HAYES NUMBER A-2015010635
ARCHITECT
02/11/22

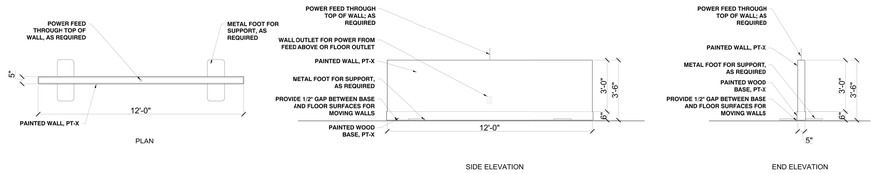
project number	2021-055
date	02.10.2022
issued for	PERMIT

rev	date	description

WALL TYPE DETAILS

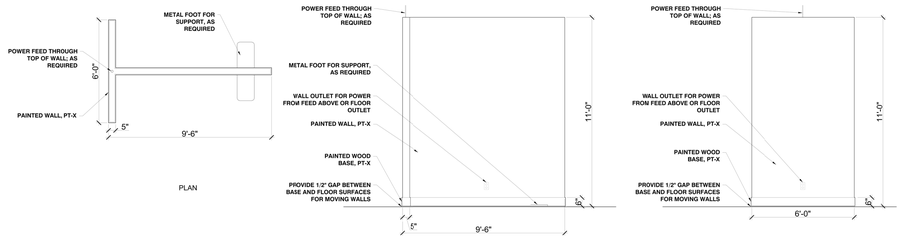
sheet number

A824



TYPE U

INDICATES 12-0" LONG X 3'-6" HIGH MOVABLE WALL UNIT



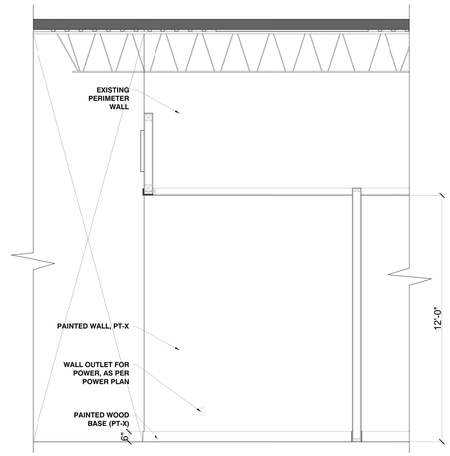
TYPE V

INDICATES 11'-0" HIGH MOVABLE T-WALL UNITS WITH 6'-0" END CAPS

** ALL DRAWINGS REPRESENT DESIGN INTENT ONLY. NOT FOR CONSTRUCTION. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN FIELD.

TYPE W

INDICATES 12'-0" HIGH FIXED CAFE WALLS



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WALL TYPE DETAILS

NTS

HIVE

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LEE'S SUMMIT, MO 64086

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02/11/22

project number	2021-055
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issued for	PERMIT

rev	date	description

WALL TYPE DETAILS

sheet number

A825

STRUCTURAL GENERAL NOTES

GENERAL NOTES:

ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE OTHER PROJECT DRAWINGS AND SPECIFICATIONS. THE MATERIAL REQUIREMENTS IN THESE NOTES ARE TO BE CONSIDERED AS MINIMUM. SPECIFICATIONS SHALL GOVERN WHEN MORE STRINGENT.

VERIFY ALL DIMENSIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. DISCREPANCIES SHALL BE RESOLVED BEFORE PROCEEDING WITH CONSTRUCTION. CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND MAKE NECESSARY INVESTIGATIONS AND FIELD MEASUREMENTS. INFORM ENGINEER OF ALL DISCREPANCIES.

THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATIONS OF PENETRATIONS AND EMBEDDED ITEMS THROUGH THE STRUCTURE FOR ALL TRADES. PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER.

SEE MECHANICAL, ELECTRICAL, ARCHITECTURAL DRAWINGS FOR ANCHORS, PIPE SLEEVES, CONDUITS OR OTHER ITEMS TO BE EMBEDDED IN OR PASS THROUGH CONCRETE. IN GENERAL, EMBEDMENTS AND PENETRATIONS LESS THAN 12 INCHES IN DIAMETER ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS.

SEE ARCHITECTURAL DRAWINGS FOR DOOR HEIGHTS AND WALL OPENING DIMENSIONS.

STRUCTURAL ELEMENTS ARE NON-SELF SUPPORTING AND REQUIRE INTERACTION WITH OTHER ELEMENTS FOR STABILITY. FRAMING AND WALLS SHALL BE TEMPORARILY BRACED BY THE CONTRACTOR UNTIL PERMANENT BRACING, FLOOR AND ROOF DECKS AND WALLS HAVE BEEN INSTALLED AND CONNECTIONS BETWEEN THESE ELEMENTS HAVE BEEN MADE.

SUPPORT OF ALL NON-STRUCTURAL ELEMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NON-STRUCTURAL ELEMENTS ARE THOSE THAT DO NOT CONTRIBUTE TO THE DIRECT LOAD PATH OF BOTH THE GRAVITY AND LATERAL FORCE RESISTING SYSTEMS. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO PARTITIONS, FINISHES, MILLWORK, MECHANICAL EQUIPMENT, DUCTWORK, PIPING, LIGHT FIXTURES,ELECTRICAL CONDUIT, STORAGE RACKS, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THESE ELEMENTS ARE ADEQUATELY CONNECTED TO THE STRUCTURE TO RESIST ALL APPLIED LOADS. NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF UNUSUAL SUPPORT CONDITIONS EXIST.

WORK REQUIRING SPECIAL INSPECTIONS SHALL BE INSPECTED ACCORDING TO THE BUILDING CODE AND INCLUDES: CONCRETE, REINFORCING STEEL, STRUCTURAL WELDING, HIGH-STRENGTH BOLTING, AND MASONRY. RE: SPECIAL INSPECTION PROGRAM TABLE WHEN APPLICABLE.

DESIGN CRITERIA:

BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT, MISSOURI.

LIVE LOADS:
- ROOF: 20 PSF

SNOW LOADS:
- GROUND SNOW LOAD, Pg: 20 PSF
- FLAT-ROOF SNOW LOAD, Pf: 20 PSF
- SNOW EXPOSURE FACTOR, Ce: 0.9
- SNOW LOAD IMPORTANCE FACTOR, Is: 1.0
- THERMAL FACTOR, Ct: 1.0

WIND LOAD:
- BASIC WIND SPEED: 115 MPH
- EXPOSURE CATEGORY: B
- WIND IMPORTANCE FACTOR, Iw: 1.0
- BASIC INTERNAL PRESSURE COEFFICIENT, GCpi: ±0.18
- BASIC COMPONENTS AND CLADDING PRESSURE (ADJUSTED TO COMPLY WITH BUILDING CODE): ±30 PSF @ INTERIOR ZONES
  ±35 PSF @ END ZONES

SEISMIC LOAD:
- SEISMIC IMPORTANCE FACTOR, Ie: 1.0
- SPECTRAL RESPONSE ACCELERATIONS:
  - Ss: 0.1005
  - S1: 0.0686
- SPECTRAL RESPONSE COEFFICIENTS:
  - Sds: 0.107
  - Sd1: 0.110
- SITE CLASS: D
- SEISMIC DESIGN CATEGORY: B
- BASIC SEISMIC-FORCE-RESISTING SYSTEM: ORDINARY REINFORCED CONCRETE SHEAR WALL
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

THE NEW STRUCTURAL FRAMING INTRODUCES ADDTIONAL LATERAL LOAD TO THE MAIN WIND FORCE RESISTING SYSTEM (MWFRS). PER BUILDING CODE, "ANY EXISTING LATERAL LOADS CARRYING STRUCTURAL ELEMENTS WHOSE DEMAND-CAPACITY RATIO WITH THE ALTERATIONS CONSIDERED IS NOT MORE THAN 10% GREATER THAN ITS DEMAND-CAPACITY RATIO WITH THE ALTERATION IGNORED SHALL BE PERMITTED TO REMAIN UNALTERED."

STRUCTURAL STEEL NOTES:

STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:
- WIDE FLANGE SHAPES (W, WT): ASTM A992 (Fy=50 KSI)
- OTHER ROLLED SHAPES (M, S, HP, C, L): ASTM A36 (Fy=36 KSI)
- STEEL PIPE: ASTM A53, GRADE B (Fy=35 KSI)
- SQUARE AND RECTANGULAR TUBE: ASTM A500, GRADE B (Fy=46 KSI)
- ANCHOR BOLTS: ASTM F1554, GRADE 36
- HEADED ANCHOR STUDS: ASTM A108, GRADES 1010 TO 1020
- PLATES AND BARS: ASTM A36 (Fy=36 KSI)

SHEAR CONNECTORS AND HEADED WELDED STUDS OF TYPE AND SIZE NOTED SHALL BE TYPE B.

STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH GOOD STANDARD PRACTICE AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

PROPER FIT IN THE FIELD OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH GOOD STANDARD PRACTICE AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

THE FABRICATOR SHALL BE RESPONSIBLE FOR THE DESIGN AND PERFORMANCE OF ALL CONNECTIONS NOT FULLY DESIGNED OR DETAILED ON THE CONTRACT DOCUMENTS.

ANCHOR BOLTS SHALL BE ASTM F1554, A36 UON. ANCHOR BOLTS SHALL BE SET WITH TEMPLATES WITH THE APPROPRIATE BOLT PROJECTION, 4" MINIMUM UON. PROVIDE DOUBLE NUTS AND DOUBLE WASHERS FOR STEEL COLUMN ANCHOR BOLTS TO ALLOW FOR ADJUSTMENT IN BASE PLATE ELEVATION.

NON-SHRINK GROUT UNDER BASE PLATES SHALL BE NON-METALLIC WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS.

HIGH STRENGTH BOLTED CONNECTIONS SHALL CONFORM TO THE AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING A325 BOLTS. UNLESS OTHERWISE NOTED, HIGH STRENGTH BOLTS MAY BE TIGHTENED BY ANY METHOD THEREIN. REGARDLESS OF THE METHOD USED IN TIGHTENING, A HARDENED WASHER SHALL BE USED UNDER THE TURNED ELEMENT. UNLESS OTHERWISE NOTED, BOLTED CONNECTIONS SHALL BE MADE WITH ¾"Ø, ASTM A325 HIGH STRENGTH BOLTS.

CONNECTIONS REQUIRING FULL PRETENSIONING ARE SLIP-CRITICAL, AND INCLUDE BOLTED COLUMN SPLICES, BEAM SPLICES, BRACED FRAMES AND CONNECTIONS SUBJECT TO DIRECT TENSION.

ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STRUCTURAL WELDING CODE, AWS D1.1. THE MINIMUM WELD SIZE SHALL BE $\frac{3}{16}$" FILLET UNLESS OTHERWISE NOTED.

FIELD WELDING SHALL NOT BE STARTED UNTIL JOINT ELEMENTS ARE BOLTED IN INTIMATE CONTACT AND/OR ADJUSTED TO DIMENSIONS INDICATED WITH ALLOWANCE FOR EXPECTED WELD SHRINKAGE. MAINTAIN PLUMBNESS AND TRUENESS OF THE STRUCTURE.

FIELD WELDS FOR STRUCTURAL STEEL SHALL BE MADE WITH LOW HYDROGEN ELECTRODES. WELD FILLER METAL SHALL HAVE A MINIMUM TENSILE STRENGTH OF 70 KSI.

LIGHT GAGE STEEL NOTES:

LIGHT GAGE FRAMING SHALL MEET THE FOLLOWING REQUIREMENTS:

A. ASTM A653, PROVIDE GRADE 33 FOR MEMBERS 18 GAGE AND LIGHTER AND GRADE 50 FOR MEMBERS 16 GAGE AND HEAVIER. SEE PLANS FOR SECTION SIZE.

B. GALVANIZING SHALL CONFORM TO ASTM A924 WITH A COATING CLASS OF G60.

FOR 18 GAGE AND LIGHTER FRAMING, CONNECTIONS SHALL BE MADE USING SELF-DRILLING, SELF-TAPPING SCREWS. FOR 16 GAGE AND HEAVIER FRAMING, CONNECTIONS SHALL BE MADE BY WELDING. COMPONENTS SHALL BE FASTENED TO INSURE THE STRENGTH OF THE CONNECTION. SEE DETAILS FOR FASTENER SIZES. SCREWS SHALL EXTEND A MINIMUM OF 3 EXPOSED THREADS PAST TRUSS/JOIST FLANGE.

WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.3. ELECTRODES SHALL BE E70.

FOR AXIALLY LOADED STUDS, INSTALL BRIDGING ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. APPLIED MATERIALS SHALL NOT BE CONSIDERED TO BRACE THE MEMBERS. AS A MINIMUM, MECHANICAL BRIDGING SHALL NOT BE MORE THAN 4'-0" O.C..

INSTALL WEB STIFFENERS IN JOIST AT ALL BEARING LOCATIONS AND SUPPORTED CONCENTRATED LOADS.

PROVIDE RESTRAINT OF ROTATION FOR JOISTS AT ALL SUPPORTS BY FULL-DEPTH BLOCKING.

AXIALLY LOADED STUDS SHALL BE FULLY BEARING AGAINST UPPER AND LOWER TRACKS PRIOR TO CONNECTION. SPLICES IN AXIALLY LOADED STUDS ARE NOT PERMITTED. SPACE STUDS SUCH THAT THEY OCCUR AT SUPPORTED MEMBERS.

HIVE

CERTUS STRUCTURAL ENGINEERS
900 S. Kansas Avenue; Suite 400
Topeka, Kansas 66612
Phone: (785)291-0400
Fax: (785)291-0401
P.N. 01210125
Certificate Of Authorization
E-2007035402

FOR REVIEW ONLY, NOT FOR CONSTRUCTION

FURNITURE MALL TENANT IMPROVEMENT
900 NW BLUE PARKWAY
LEE'S SUMMIT, MO 64086

HIVE DESIGN COLLABORATIVE, INC.
1617 WALNUT STREET, KANSAS CITY, MO 64108
816.581.6363

seal/signature

project number	2021-055
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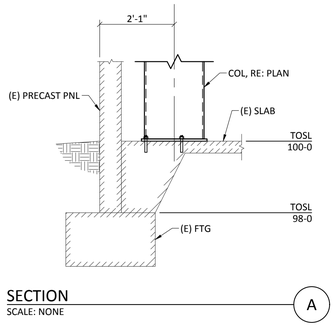
issued for	PDP

rev	date	description

GENERAL NOTES

sheet number

S001



SECTION
SCALE: NONE

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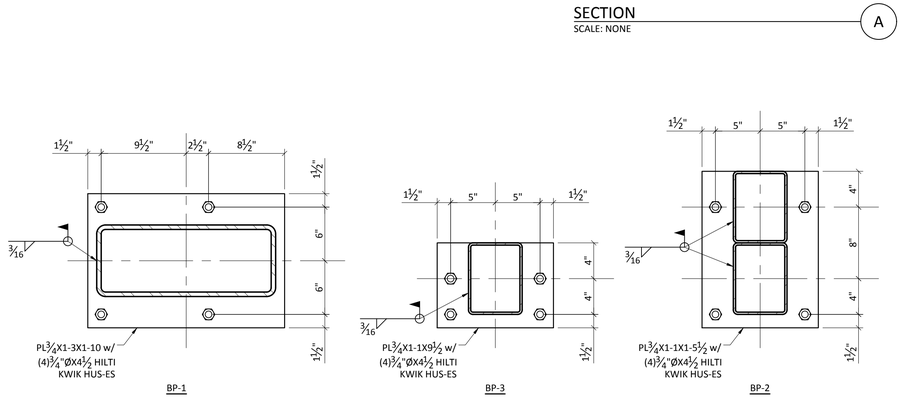
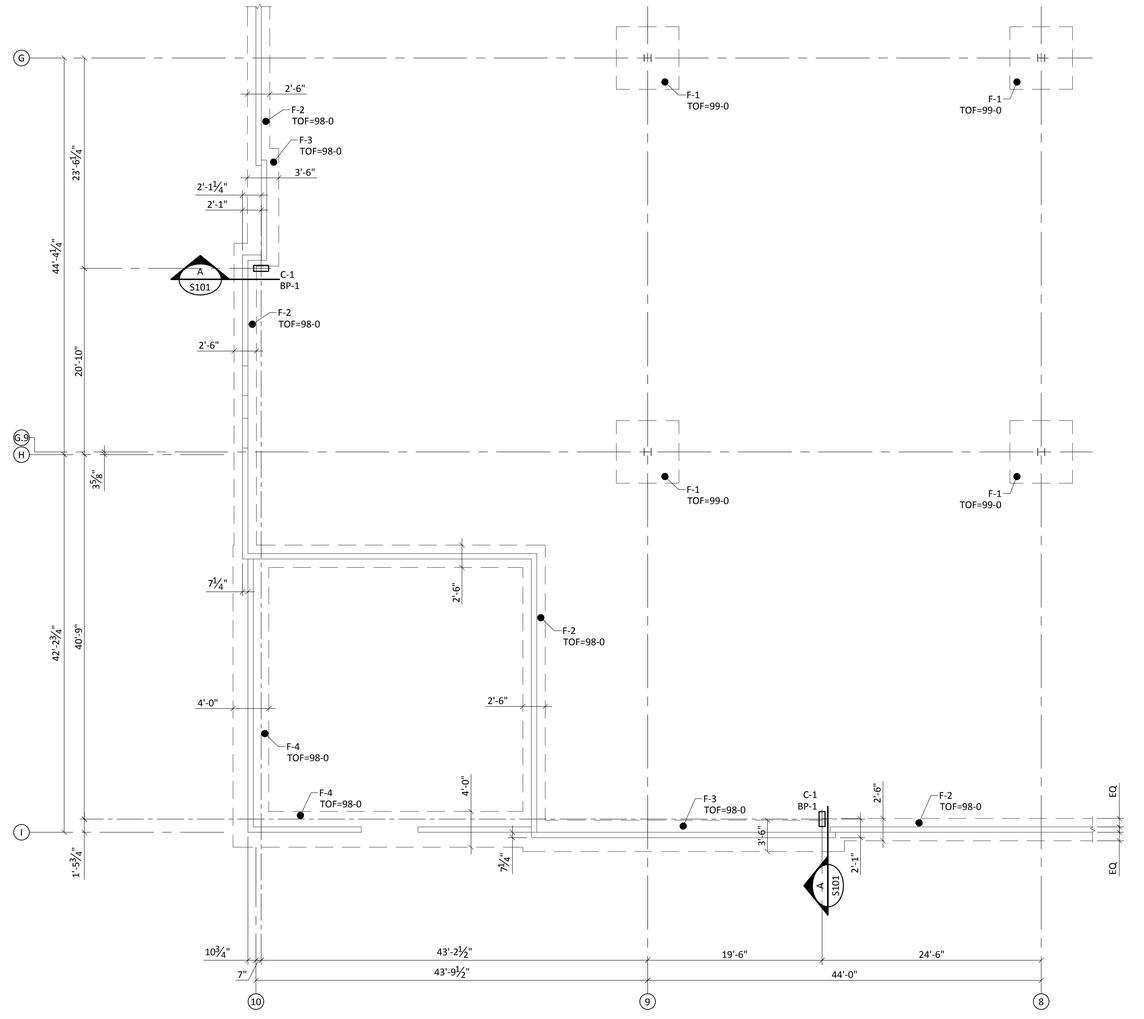


BASEPLATE DETAILS
SCALE: NONE

1



PARTIAL NORTHWEST FOUNDATION PLAN
SCALE: ⅛" = 1'-0"

TOSL - TOP OF SLAB ELEV = 100-0 = SITE ELEV = 1005.00

C(#) DENOTES COLUMN MARK, SEE SCHEDULE
BP(#) DENOTES COLUMN BASE PLATE TYPE, SEE DETAILS

* INDICATE DIMENSION TO BE VERIFY WITH ARCH PLANS.

COORDINATE ALL PENETRATIONS THROUGH THE SLAB AND ALL UNDER SLAB ITEMS WITH OTHER TRADES BEFORE CONSTRUCTION.

VERIFY ALL DIMENSIONS SHOWN WITH ARCHITECTURAL AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. INFORM ENGINEER OF ALL DISCREPANCIES.

EXISTING FOOTING SCHEDULE

MARK	SIZE	REINFORCING		COLUMN
		LAT.	LONG.	
F-1	7'-0"X7'-0"X1'-6"	(9) #5 BOTTOM EW		W10X45
F-2	2'-6"	#4@18 OC	(3) #5 CONT	--
F-3	3'-6"	#4@18 OC	(5) #5 CONT	--
F-4	4'-0"	#4@18 OC	(6) #5 CONT	--
F-5	3'-2"	#4@18 OC	(3) #5 CONT	--

COLUMN SCHEDULE

MARK	SIZE
C-1	HSS20X8X1/2
C-2	HSS8X8X1/4
C-3	HSS8X6X1/4

HIVE

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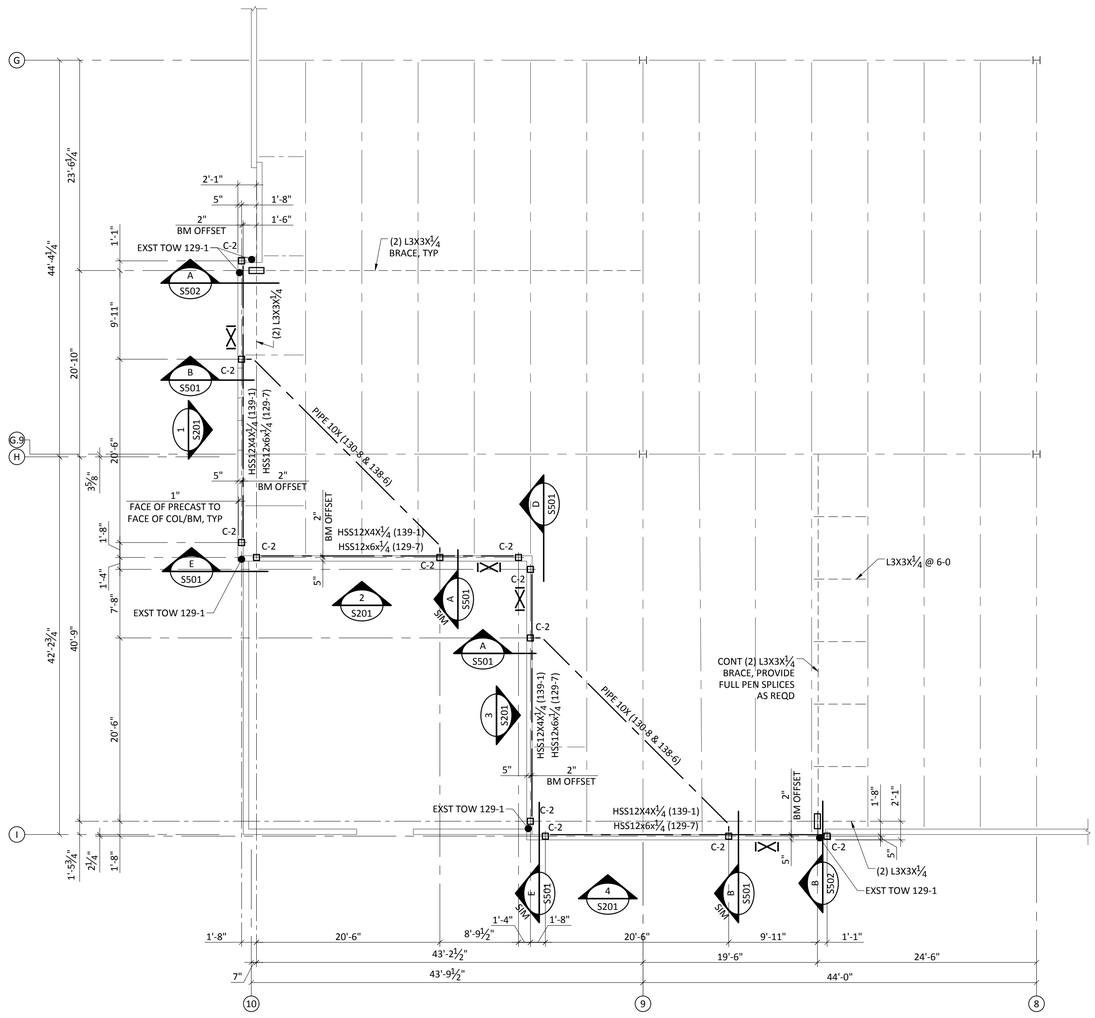
NORTHWEST FOUNDATION PLAN

sheet number

S101



PARTIAL NORTHWEST FRAMING PLAN

SCALE: ⅛" = 1'-0"

TOS - TOP OF STEEL BEAM ELEV NOTED THUS:(ELEV)

TOW - TOP OF WALL ELEV = 129-1 UNO

INDICATES BRACED BAY.

* INDICATE DIMENSION TO BE VERIFY WITH ARCH PLANS.

VERIFY ALL DIMENSIONS SHOWN WITH ARCHITECTURAL AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. INFORM ENGINEER OF ALL DISCREPANCIES.

COLUMN SCHEDULE	
MARK	SIZE
C-1	HSS20X8X1/2
C-2	HSS8X8X1/4
C-3	HSS8X6X1/4

CERTUS STRUCTURAL ENGINEERS
900 S. Kansas Avenue; Suite 400
Topeka, Kansas 66612
Phone: (785)291-0400
Fax: (785)291-0401
P.N. 01210125
Certificate Of Authorization
E-2007035402

FOR REVIEW ONLY, NOT FOR CONSTRUCTION

FURNITURE MALL TENANT IMPROVEMENT

900 NW BLUE PARKWAY
LEE'S SUMMIT, MO 64086

HIVE DESIGN COLLABORATIVE, INC.
1617 WALNUT STREET, KANSAS CITY, MO 64108
816.581.6363

seal/signature

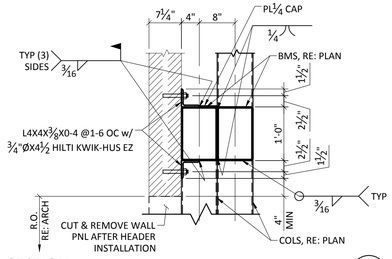
project number	2021-055
date	12.13.21
issued for	PDP

rev	date	description

NORTHWEST FRAMING PLAN

sheet number

S102



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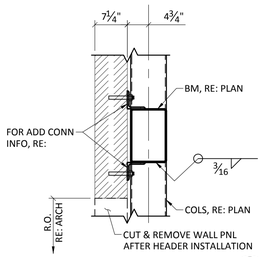

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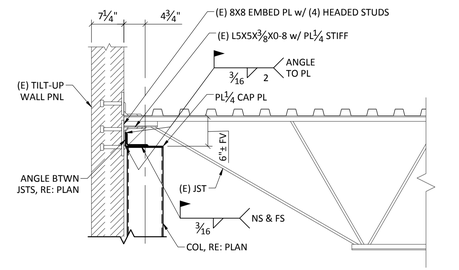

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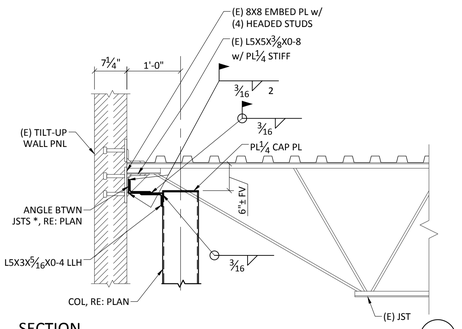
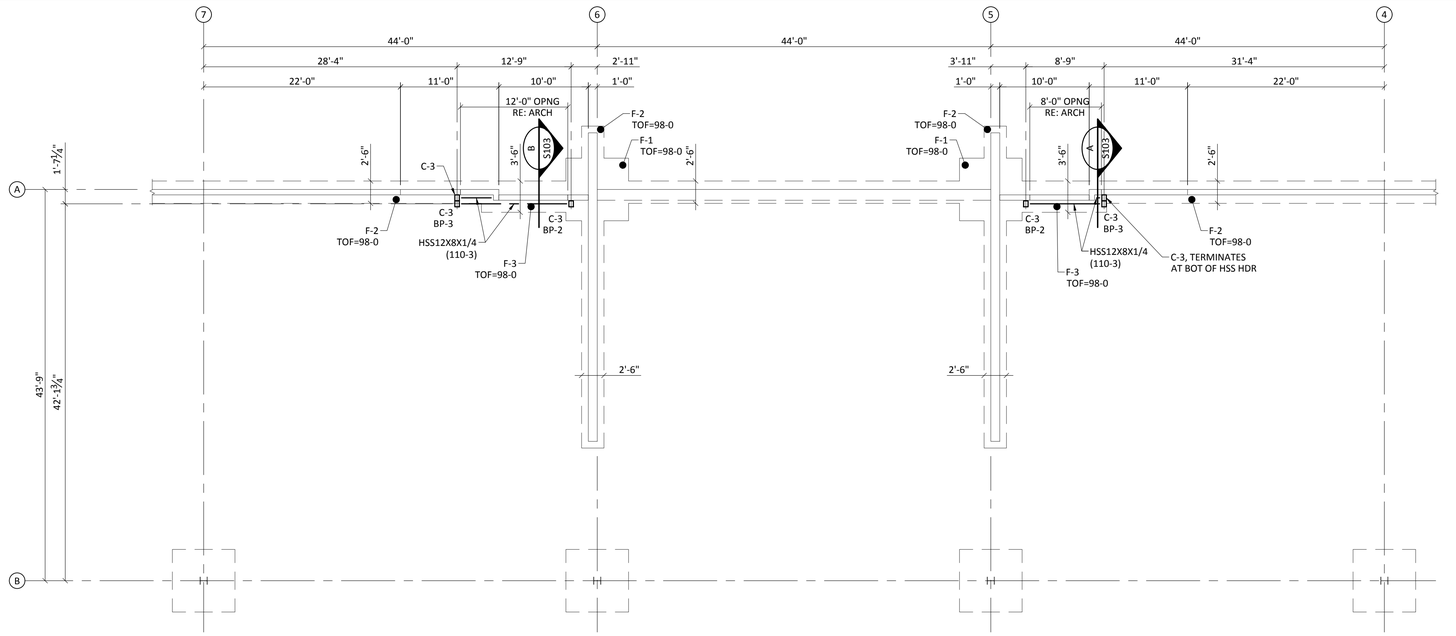


SECTION
SCALE: NONE

D

* L5X3X5/16X0-4 WELDED TO EMBED PL AT SIM. IF COLUMN IS MORE THAN 4" FROM CENTERLINE OF JOIST, PROVIDE ANGLE BTWN JOIST AS INDICATED IN D/S103.



PARTIAL EAST FOUNDATION PLAN
SCALE: ⅛" = 1'-0"

TOSL - TOP OF SLAB ELEV = 100-0 = SITE ELEV = 1005.00

C(#) DENOTES COLUMN MARK, SEE SCHEDULE
BP(#) DENOTES COLUMN BASE PLATE TYPE, SEE DETAILS

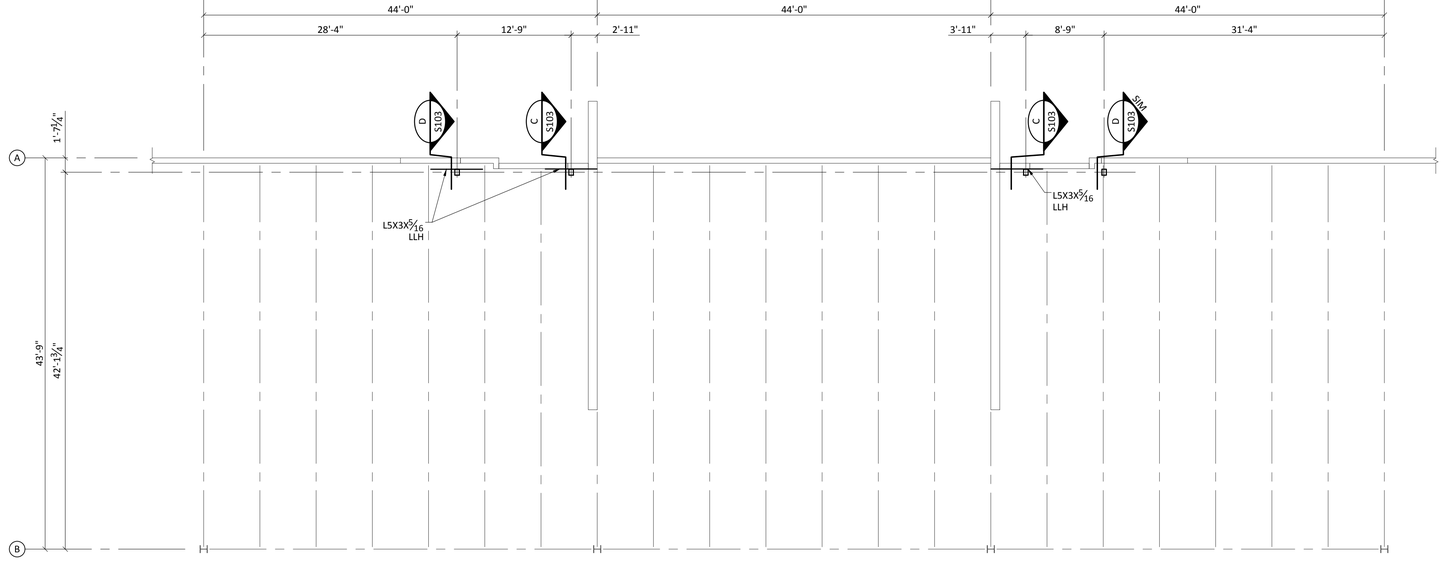
* INDICATE DIMENSION TO BE VERIFY WITH ARCH PLANS.

COORDINATE ALL PENETRATIONS THROUGH THE SLAB AND ALL UNDER SLAB ITEMS WITH OTHER TRADES BEFORE CONSTRUCTION.

VERIFY ALL DIMENSIONS SHOWN WITH ARCHITECTURAL AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. INFORM ENGINEER OF ALL DISCREPANCIES.

COLUMN SCHEDULE

MARK	SIZE
C-1	HSS20X8X1/2
C-2	HSS8X8X1/4
C-3	HSS8X6X1/4



PARTIAL EAST FRAMING PLAN
SCALE: ⅛" = 1'-0"

TOS - TOP OF STEEL BEAM ELEV NOTED THUS:(ELEV)

TOW - TOP OF WALL ELEV = 129-1 UNO

* INDICATE DIMENSION TO BE VERIFY WITH ARCH PLANS.

VERIFY ALL DIMENSIONS SHOWN WITH ARCHITECTURAL AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. INFORM ENGINEER OF ALL DISCREPANCIES.

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seal/signature

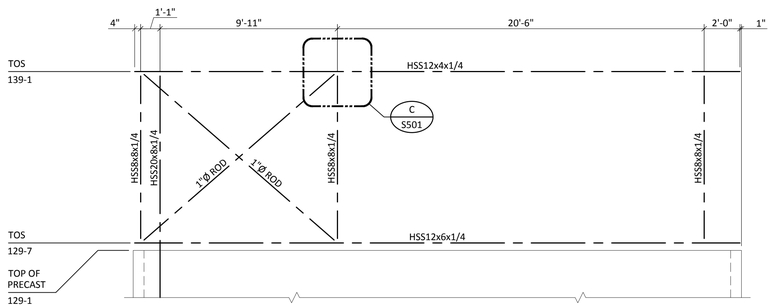
project number	2021-055
date	12.13.21
issued for	PDP

rev	date	description

EAST FOUNDATION & FRAMING PLANS

sheet number

S103



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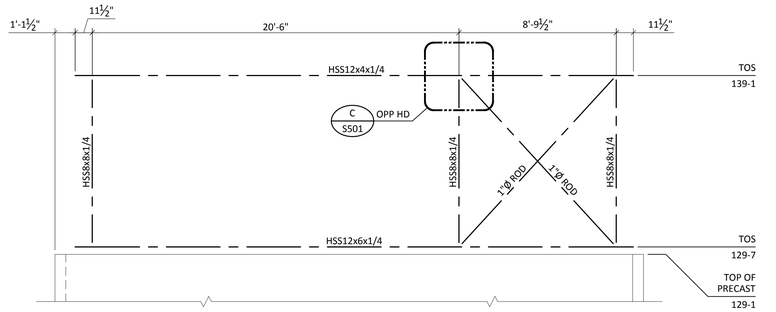

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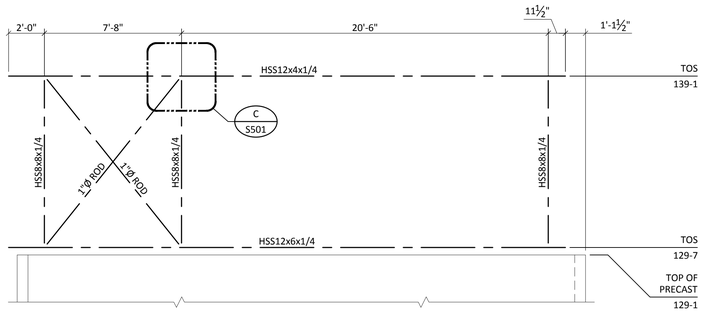

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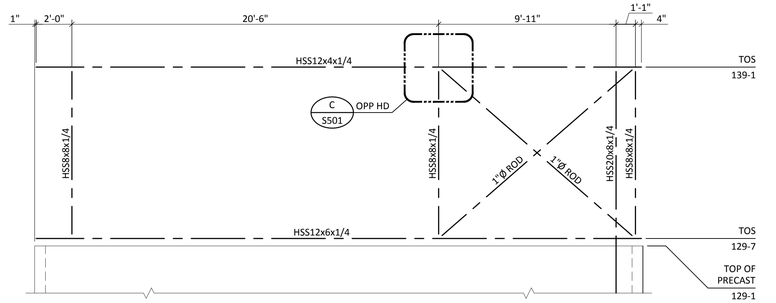

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SCALE: NONE

4

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seal/signature

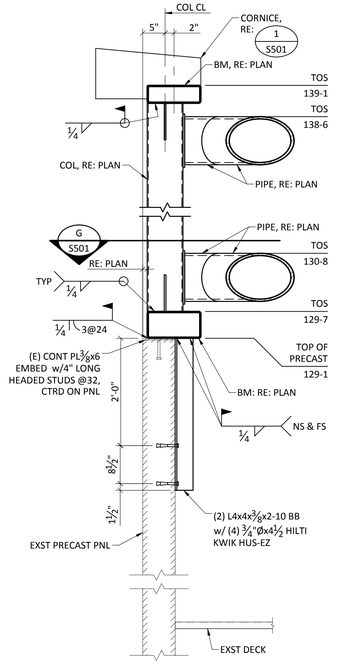
project number	2021-055
date	12.13.21
issued for	PDP

rev	date	description

ELEVATIONS

sheet number

S201



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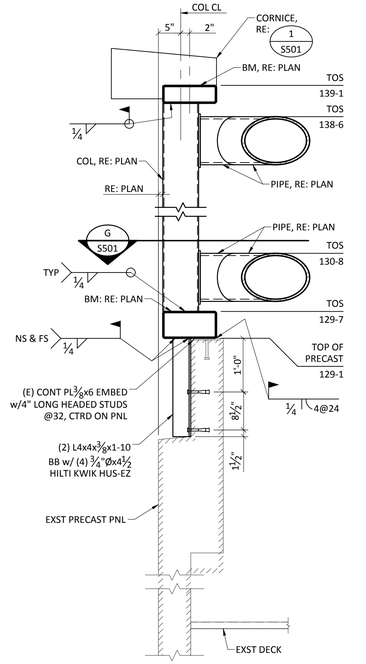

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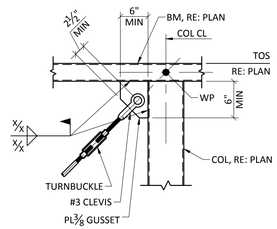

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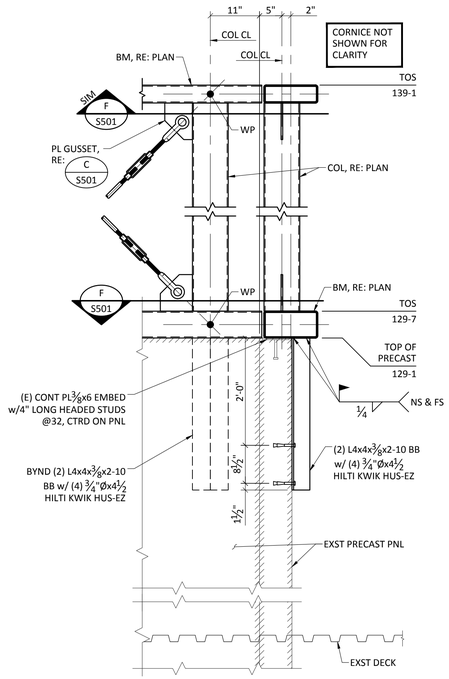

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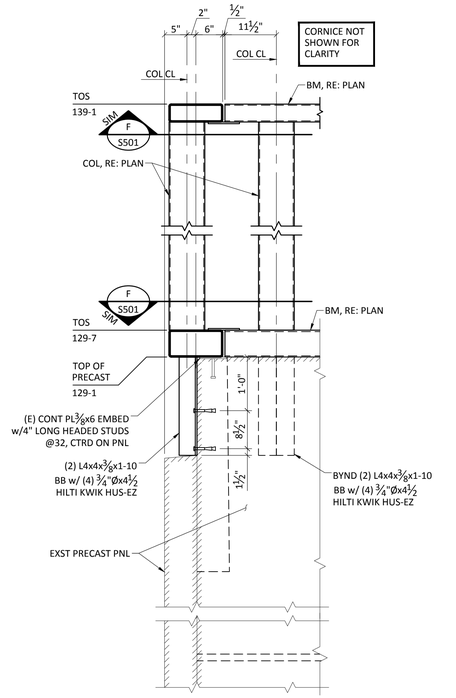

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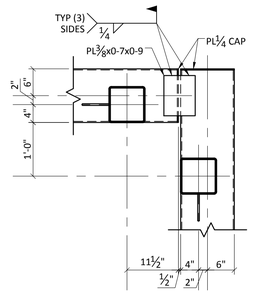

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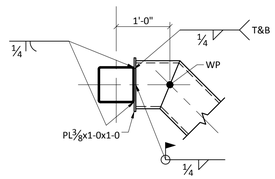

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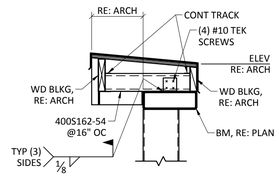

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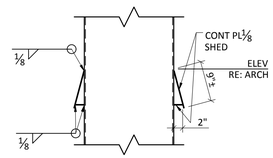

TYPICAL SHED PLATE
SCALE: NONE
2

HIVE

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HIVE DESIGN COLLABORATIVE, INC.
1617 WALNUT STREET, KANSAS CITY, MO 64108
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seal/signature

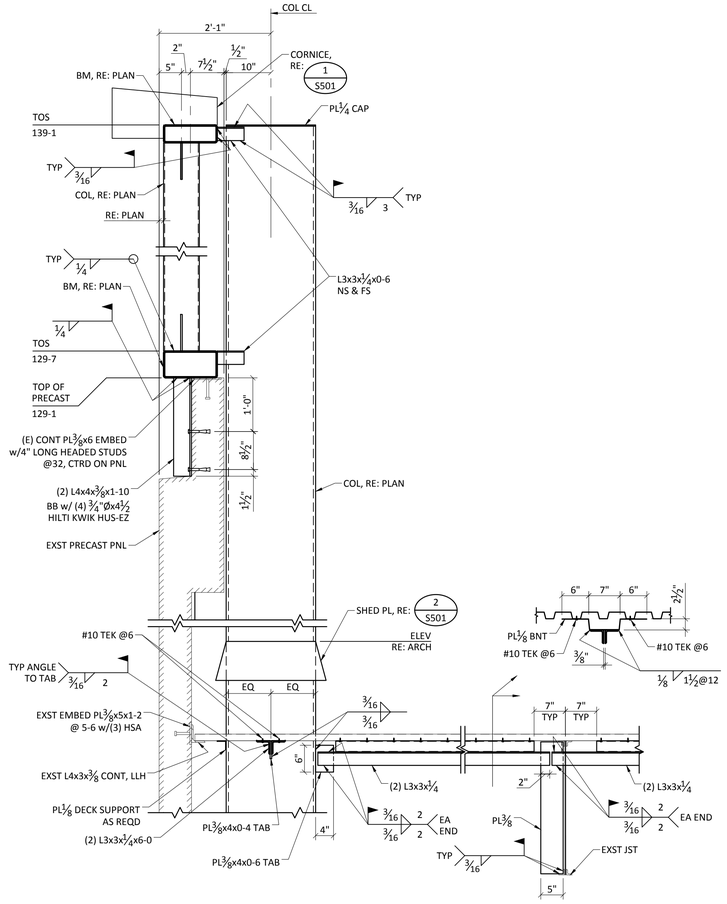
project number	2021-055
date	12.13.21
issued for	PDP

rev	date	description

FRAMING SECTIONS & DETAILS I

sheet number

S501



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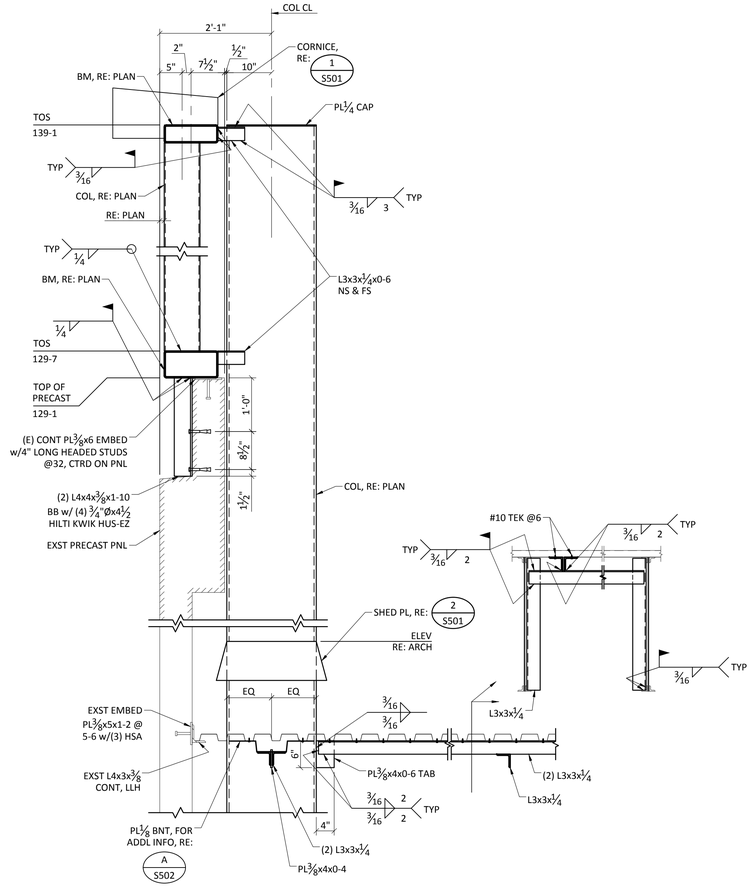

SECTION
SCALE: NONE

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HIVE

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HIVE DESIGN COLLABORATIVE, INC.
1617 WALNUT STREET, KANSAS CITY, MO 64108
816.581.6363

seal/signature

STATE OF MISSOURI
NUMBER PE-2009017101
PROFESSIONAL ENGINEER

project number	2021-055
date	12.13.21
issued for	PDP

rev	date	description

FRAMING SECTIONS & DETAILS II

sheet number

S502

HVAC ROOFTOP UNIT SCHEDULE

MARK	CFM	OA CFM	TOTAL COOLING CAPACITY (TONS)	HEATING CAPACITY (BTUH)		ELECTRICAL		REMARKS
				INPUT	OUTPUT	BLOWER HP	VOLTS	
RTU-1	5800	1875	15	169,000	135,000	5	460	1
RTU-2	5800	2025	15	169,000	135,000	5	460	1
RTU-3	5800	1740	15	169,000	135,000	5	460	1
RTU-4	5800	2050	17.5	260	208	5	460	1
RTU-5	2000	350	5	78	62.4	2	460	1, 2
RTU-6	1675	370	5	78	62.4	2	460	1, 2
RTU-7	5600	1460	15	169	135	3	460	1,3
RTU-8	4200	1375	13	169	135	3	460	1,3
RTU-9	4200	1445	13	169	135	3	460	1,3
RTU-10	4200	1345	13	169	135	3	460	1,3
RTU-11	5600	1460	15	169	135	3	460	1,3
RTU-12	5800	1375	15	169	135	3	460	1,3
RTU-13	5600	1445	15	169	135	3	460	1,3
RTU-14	5600	1350	15	169	135	3	460	1,3
RTU-15	1675	400	5	78	62.4	2	460	1, 2
RTU-16	2000	405	5	78	62.4	2	460	1, 2
RTU-17	5800	1465	15	130	104	5	460	1
RTU-18	5800	1650	15	169	135	5	460	1
RTU-19	5800	1710	15	169	135	5	460	1
RTU-20	5800	1960	17.5	169	135	5	460	1
RTU-21	3000	520	7.5	130	104	2	460	1, 2
RTU-22	2700	900	10	130	104	2	460	1
RTU-23	3400	540	7.5	130	104	2	460	1
RTU-24	2000	380	5	78	62.4	2	460	1, 2
RTU-25	3600	250	10	130	104	3	460	1
RTU-26	2950	355	7.5	130	104	2	460	1, 2
RTU-27	2800	645	7.5	130	104	3	460	1

NOTES:
1. CLEAN AND PERFORM MANUFACTURERS RECOMMENDED MAINTENANCE ON THE EQUIPMENT THAT IS TO REMAIN INCLUDING CLEANING, FILTER/BELT REPLACEMENTS, AND CHECKING REFRIGERANT LEVELS.
2. ABANDON PACKAGE UNIT IN PLACE AND REMOVE ALL ASSOCIATED INTERIOR DUCTWORK. UNIT SHALL REMAIN AS A POSSIBLE BACKUP UNIT.
3. REMOVE ALL DUCTWORK ASSOCIATED WITH THE PACKAGE UNIT AND REPLACE WITH A CONCENTRIC DIFFUSER TO MATCH THE EXISTING UNITS.

INTERNAL HEAT GAIN

ITEM DESCRIPTION	QUANTITY	WATTAGE	RATED (BTUH)	USAGE FACTOR	RADIATION FACTOR	SENSIBLE HEAT GAIN (BTUH)	LATENT HEAT GAIN (BTUH)	TOTAL (BTUH)
UNHOODED ELECTRIC APPLIANCES								
ESPRESSO MACHINE	1	0	8200	0.15	0.33	1200	0	1200
COFFEE BREWING URN/WATER TOWER	2	0	1300	0.09	0.17	500	700	2400
OVEN	1	11000	37510	0.2	0.08	7500	0	7500
REACH-IN FRIDGE/FREEZER/DISPLAY CASE	4	0	4800	0.25	0.25	1200	0	4800
ICE MAKER	1	0	5961	0.41	0.45	2444	0	2444
CUSTARD MACHINE	1	0	28371	0.41	0.45	11632	0	11632
TOTAL		11000	51810			10400	700	29976
							TOTAL (TONS)	2.5

REQUIRED MINIMUM OUTDOOR VENTILATION

2018 INTERNATIONAL MECHANICAL CODE TABLE 403.3

AREA DESCRIPTION	OCCUPANCY CLASSIFICATION	PERSONS	OUTDOOR CFM/PERSON	AREA SQUARE FOOTAGE	OUTDOOR CFM/S.F.	CFM USED
OFFICES	OFFICE SPACE	16	5	3,350	0.06	281
SALES FLOOR	SALES	1200	7.5	88,075	0.12	19569
CIRCULATION	MALL COMMON AREAS	300	5	20,425	0.06	2726
CAFÉ	CAFÉ AREA	35	7.5	1,300	0.18	497
RECEIVING	WAREHOUSE		0	4,575	0.06	275
					TOTAL	23347

AIR DEVICE SCHEDULE

MARK	NECK SIZE	DIFFUSER FACE OR CEILING GRID SIZE	TYPE			CFM RANGE	MOUNTING		DUTY			MFR.	MODEL NO.
			DIFFUSER	REGISTER	GRILLE		LAY-IN	RECESSED	SUPPLY	RETURN	EXHAUST		
S-1	8"Ø	24" x 24"	X			200		X	X			TITUS	OMNI
S-2	EXISTING DIFFUSER. REBALANCE TO SPECIFIED CFM.												
S-3	8"Ø	6" x 48"	X			200		X	X			TITUS	FLOWBAR

DESIGN CONDITIONS

LOCATION: LEE SUMMIT, MO
TOTAL CONDITIONED AREA: RETAIL: 117,040 SF

WET BULB: 57
DAILY RANGE: MEDIUM
DESIGN MONTH: JULY
DESIGN HOUR: 3:00 PM

(KANSAS CITY AP)

	OUTDOOR DRY BULB	INDOOR DRY BULB
SUMMER	93	75
WINTER	4	70

HEAT LOSS/GAIN SUMMARY

	U-VALUE	LOSS	SENSIBLE GAIN	LATENT GAIN
WALLS	0.117	138,768	33,847	0
WINDOWS	0.75	93,456	62,272	0
DOORS	0.56	9,978	3,048	0
CEILINGS	0.087	471,203	359,627	0
FLOORS	1.18	0	0	0
INTERNAL LOADS		0	448,757	118,750
INFILTRATION		0	0	0
VENTILATION		1,661,092	453,025	622,338
TOTAL		2,374,497	1,171,263	741,088

DESIGN CONDITIONS

LOCATION: LEE SUMMIT, MO
TOTAL CONDITIONED AREA: DOCK AREA: 4,746 SF

WET BULB: 57
DAILY RANGE: MEDIUM
DESIGN MONTH: JULY
DESIGN HOUR: 3:00 PM

(KANSAS CITY AP)

	OUTDOOR DRY BULB	INDOOR DRY BULB
SUMMER	93	75
WINTER	4	70

HEAT LOSS/GAIN SUMMARY

	U-VALUE	LOSS	SENSIBLE GAIN	LATENT GAIN
WALLS	0.117	29,395	8,714	0
WINDOWS	0.75	0	0	0
DOORS	0.56	14,138	5,177	0
CEILINGS	0.087	19,107	6,882	0
FLOORS	1.18	0	0	0
INTERNAL LOADS		0	1,707	0
INFILTRATION		179,556	24,575	33,759
VENTILATION		0	0	0
TOTAL		242,196	47,055	33,759

DESIGN CONDITIONS

LOCATION: LEE SUMMIT, MO
TOTAL CONDITIONED AREA: CAFE : 1,080 SF

WET BULB: 57
DAILY RANGE: MEDIUM
DESIGN MONTH: JULY
DESIGN HOUR: 3:00 PM

(KANSAS CITY AP)

	OUTDOOR DRY BULB	INDOOR DRY BULB
SUMMER	93	75
WINTER	4	70

HEAT LOSS/GAIN SUMMARY

	U-VALUE	LOSS	SENSIBLE GAIN	LATENT GAIN
WALLS	0.117	2,598	354	0
WINDOWS	0.75	4,118	1,841	0
DOORS	0.56	804	294	0
CEILINGS	0.087	7,556	2,268	0
FLOORS	1.18	0	0	0
INTERNAL LOADS		0	30,283	1,400
INFILTRATION		18,456	2,570	3,530
VENTILATION		0	0	0
TOTAL		33,532	37,610	4,930

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE LATEST ADOPTED VERSION OF THE INTERNATIONAL MECHANICAL CODE (IMC).

2. ALL DUCT CONSTRUCTION, GAUGES, METHODS OF HANGING AND SUPPORTING SHALL CONFORM TO THE LATEST SMACNA STANDARDS AND CHAPTER 6 OF THE IMC.

3. ALL EXHAUST, RETURN, AND SUPPLY DUCTS SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL TO SMACNA 2" PRESSURE CLASS. ALL JOINTS AND SEAMS SHALL BE SEALED AIRTIGHT.

4. ALL ROUND EXHAUST AND SUPPLY DUCTS SHALL BE STANDARD GALVANIZED "SNAP - LOCK" PIPE WITH ALL CHANGES IN DIRECTION MADE VIA ADJUSTABLE ELBOWS. ALL JOINTS AND SEAMS SHALL BE SEALED AIRTIGHT.

5. PROVIDE MANUAL DAMPERS WITH LOCKING QUADRANTS IN ALL LOCATIONS INDICATED OR REQUIRED TO BALANCE THE AIR SYSTEM.

6. COORDINATE THE LOCATION OF DUCTWORK WITH THE PLACEMENT OF THE EXISTING LIGHT FIXTURES AND THE EXISTING STRUCTURAL MEMBERS.

7. LINE ALL DUCTS WITH 1/2" INSULATION. (EXCLUDE EXHAUST AND DUCTS UNDER 10" IN DIAMETER OR 10" x 10" IN SIZE.) ALL DUCT DIMENSIONS GIVEN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS (W x D).

8. THE CONTRACTOR SHALL VERIFY ALL STRUCTURAL CONDITIONS FOR THE CEILING SPACE AND EXACT DUCT ROUTE PRIOR TO FABRICATION. VERIFY IN THE FIELD EXACT ROUTING OF DUCTWORK TO ALLOW PROPER LOCATION OF LIGHTS AS SHOWN.

9. ANY FRAMING REQUIRED FOR DIFFUSER INSTALLATION IN HARD CEILINGS SHALL BE BY THE GENERAL CONTRACTOR.

10. ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED, WITH ADEQUATE ROOM FOR SERVICING.

11. HVAC UNITS SHALL BE MOUNTED LEVEL.

12. SUPPLY SPECIFIED EQUIPMENT OR APPROVED EQUAL.

13. CONTRACTOR SHALL REVIEW ALL EQUIPMENT NAME PLATES AND INSTALLATION REQUIREMENTS PRIOR TO DOING WORK. EQUIPMENT IS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

14. ALL NEW THERMOSTATS SHALL BE 7-DAY PROGRAMMABLE DEVICES.

HUGHES CONSULTING ENGINEERING, PA
HVAC - Electrical - Plumbing - Energy Studies
Steven Hughes, PE
920 Massachusetts St., Suite 2
Lawrence, KS 66044
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fax: (785) 842-2492
steven@hce-pa.com

FOR REVIEW ONLY

FURNITURE MALL OF MISSOURI
900 NW BLUE PARKWAY
LEE'S SUMMIT, MO

No.	Description	Date
1	REVIEW 1	2-11-2022
2	PERMIT PRICING	2-23-2022

Sheet Index

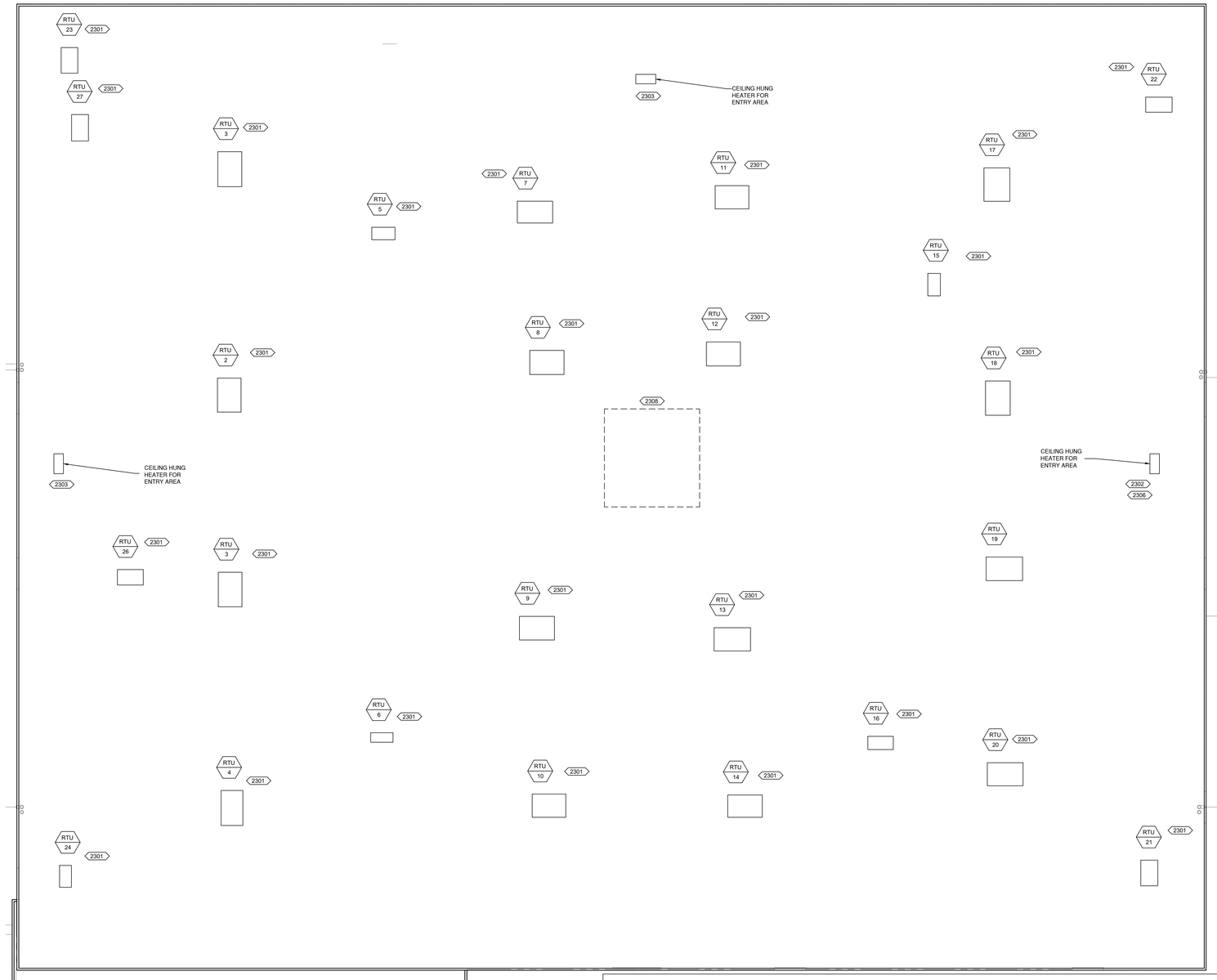
Mechanical Schedules

Date	2-23-2022
Drawn by	SCH
Checked by	SCH

M1.0

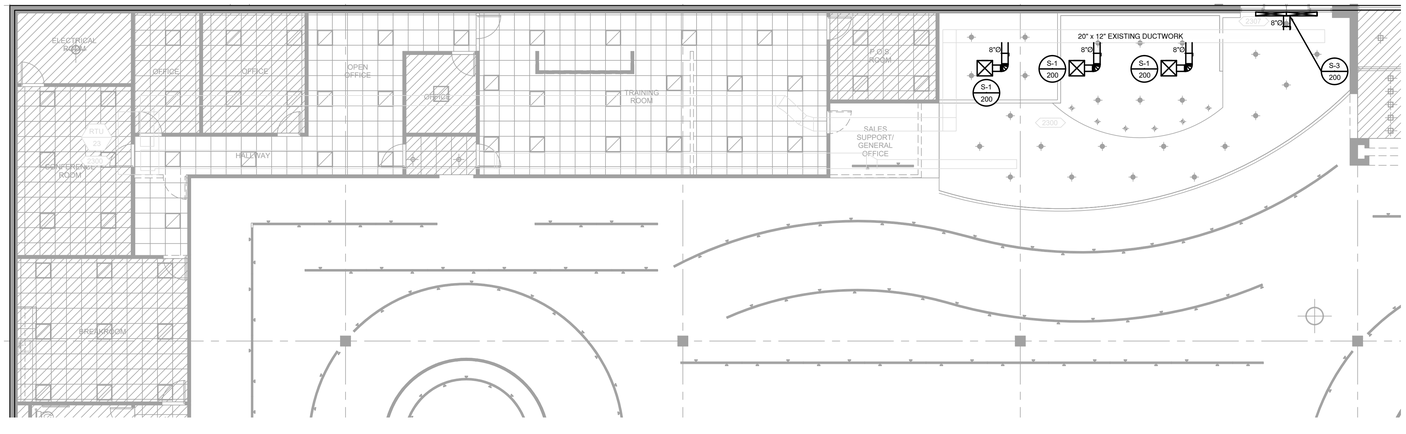
Scale: AS NOTED

1 MECHANICAL SCHEDULES AND GENERAL NOTES
SCALE: NONE



1 MECHANICAL ROOF PLAN

SCALE: 1/16" = 1'-0"



2 CAFE AND OFFICE MECHANICAL

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

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE LATEST ADOPTED VERSION OF THE INTERNATIONAL MECHANICAL CODE (IMC).

2. ALL DUCT CONSTRUCTION, GAUGES, METHODS OF HANGING AND SUPPORTING SHALL CONFORM TO THE LATEST SMACNA STANDARDS AND CHAPTER 6 OF THE IMC.

3. ALL EXHAUST, RETURN, AND SUPPLY DUCTS SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL TO SMACNA 2" PRESSURE CLASS. ALL JOINTS AND SEAMS SHALL BE SEALED AIRTIGHT.

4. ALL ROUND EXHAUST AND SUPPLY DUCTS SHALL BE STANDARD GALVANIZED "SNAP - LOCK" PIPE WITH ALL CHANGES IN DIRECTION MADE VIA ADJUSTABLE ELBOWS. ALL JOINTS AND SEAMS SHALL BE SEALED AIRTIGHT.

5. PROVIDE MANUAL DAMPERS WITH LOCKING QUADRANTS IN ALL LOCATIONS INDICATED OR REQUIRED TO BALANCE THE AIR SYSTEM.

6. COORDINATE THE LOCATION OF DUCTWORK WITH THE PLACEMENT OF THE EXISTING LIGHT FIXTURES AND THE EXISTING STRUCTURAL MEMBERS.

7. LINE ALL DUCTS WITH 1/2" INSULATION. (EXCLUDE EXHAUST AND DUCTS UNDER 10" IN DIAMETER OR 10" x 10" IN SIZE.) ALL DUCT DIMENSIONS GIVEN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS (W x D).

8. THE CONTRACTOR SHALL VERIFY ALL STRUCTURAL CONDITIONS FOR THE CEILING SPACE AND EXACT DUCT ROUTE PRIOR TO FABRICATION. VERIFY IN THE FIELD EXACT ROUTING OF DUCTWORK TO ALLOW PROPER LOCATION OF LIGHTS AS SHOWN.

9. ANY FRAMING REQUIRED FOR DIFFUSER INSTALLATION IN HARD CEILINGS SHALL BE BY THE GENERAL CONTRACTOR.

10. ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED, WITH ADEQUATE ROOM FOR SERVICING.

11. HVAC UNITS SHALL BE MOUNTED LEVEL.

12. SUPPLY SPECIFIED EQUIPMENT OR APPROVED EQUAL.

13. CONTRACTOR SHALL REVIEW ALL EQUIPMENT NAME PLATES AND INSTALLATION REQUIREMENTS PRIOR TO DOING WORK. EQUIPMENT IS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

14. ALL NEW THERMOSTATS SHALL BE 7-DAY PROGRAMMABLE DEVICES.

INSTALLATION NOTES: (THIS SHEET ONLY)

2300 EXISTING DUCTWORK FOR RTU-23 SHALL BE RECONFIGURED FOR THE CAFE AND NEW ENTRY.

2301 UPDATE AND RESET BUILDING MANAGEMENT SYSTEM (BMS) FOR OPERATION BY NEW OWNERSHIP. BMS SHALL BE UPDATED WITH THE LATEST SOFTWARE AND ANY NECESSARY HARDWARE REPLACEMENT DUE TO THE NEW UPDATED SOFTWARE. SYSTEM SHALL BE FULLY OPERATIONAL FOR NEW OWNERSHIP. ALTERNATE: PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT FOR EACH RTU REMOVED UNIT FROM THE BMS.

2302 REMOVE HEATER SERVING REMOVED ENTRY AREA. CONSULT ARCHITECTURAL DRAWINGS FOR NEW CONFIGURATION.

2303 PERFORM MAINTENANCE ON REMAINING CEILING MOUNTED HEATERS SERVING THE ENTRY VESTIBULES. THIS SHALL INCLUDE THE REPLACEMENT OF FILTERS AND CLEANING THE UNIT.

2304 PROVIDE HVAC SHUT-OFF DEVICE AT OVERHEAD DOORS IN RECEIVING THAT SHALL SHUT OFF THE HEATING COOLING AND HUMIDITY CONTROL FOR RTU-32 WHEN A DOOR IS OPEN.

2305 EXISTING PERMANENT ROOF ACCESS AND HATCH TO REMAIN. ROOF HATCH IS LOCATED IN LOADING DOCK AREA.

2306 REMOVE EXHAUST FAN ASSOCIATED WITH REMOVED ENTRY VESTIBULE. REMOVED SINGLE USER RESTROOM, AND COSMETIC COUNTER AREA. PERFORM MAINTENANCE ON ALL OTHER EXHAUST FANS SERVING ELECTRICAL ROOMS AND RESTROOMS. FIELD VERIFY LOCATIONS.

2307 INSTALL SLOT DIFFUSER AT NEW ENTRY WITH NO VESTIBULE.

2308 ABANDON AND LEAVE-IN-PLACE 5-TON RTUs SERVING DRESSING ROOM AREAS. REMOVED ASSOCIATED DUCTWORK.

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FOR REVIEW ONLY

FURNITURE MALL OF MISSOURI

900 NW BLUE PARKWAY

LEE'S SUMMIT, MO

No.	Description	Date
1	REVIEW 1	2-11-2022
2	PERMIT PRICING	2-23-2022

Sheet Index

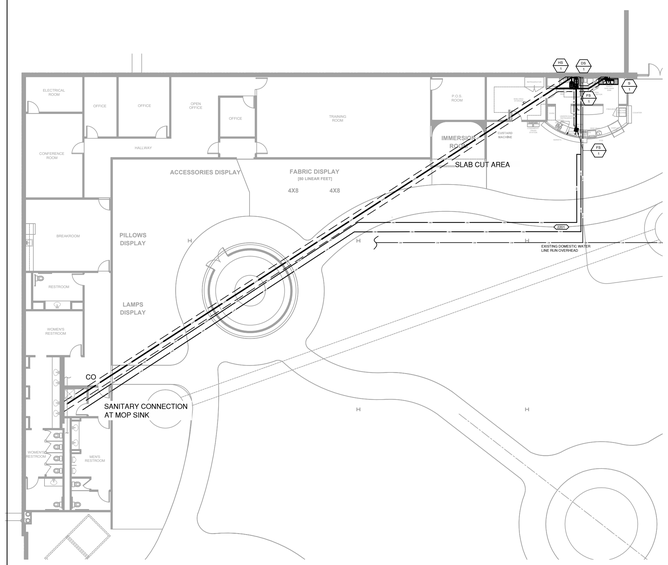
Mechanical Plan

Detailed Mechanical Plans

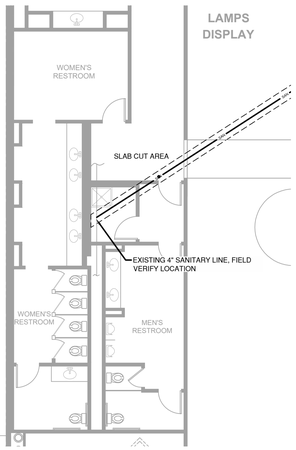
Date	2-23-2022
Drawn by	SCH
Checked by	SCH

M2.0

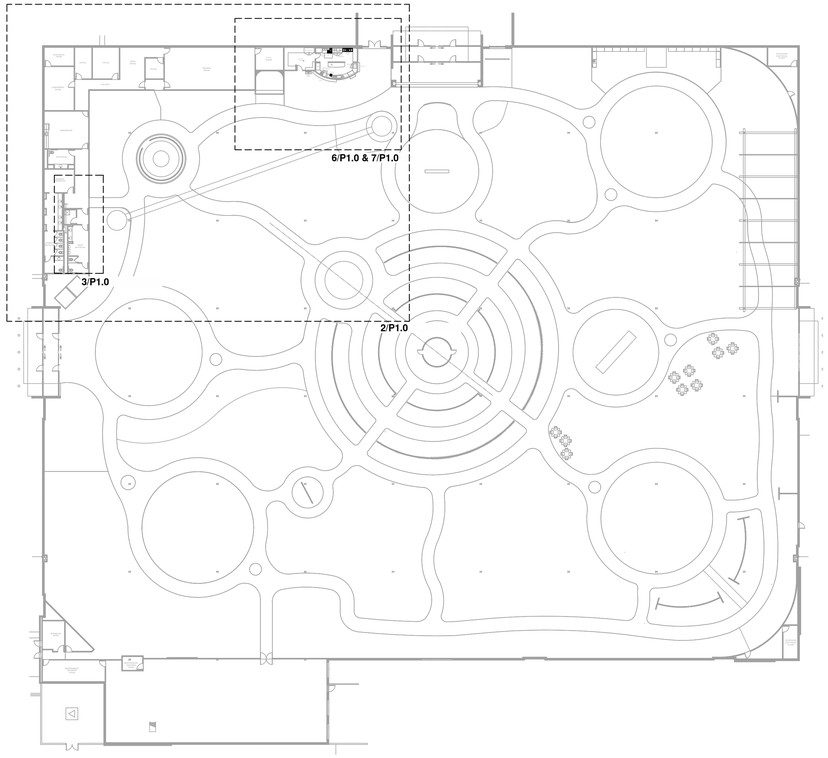
Scale AS NOTED



2 OVERALL PLUMBING
SCALE: 1/16" = 1'-0"



3 SANITARY CONNECTION
SCALE: 1/16" = 1'-0"



1 KEY PLAN
SCALE: NONE

GENERAL NOTES:

1. ALL NEW WORK SHALL CONFORM TO THE LATEST ADOPTED VERSION OF THE INTERNATIONAL PLUMBING CODE.

2. TYPE L HARD COPPER WITH 95/90 SOLDERED FITTINGS SHALL BE USED FOR ALL DOMESTIC WATER PIPING. PEX DOMESTIC WATER PIPING MAY BE USED WHERE ALLOWED BY CODE AND WHERE CONTRACTOR PROVIDES EVIDENCE OF TRAINING ON PEX PIPING INSTALLATION.

3. STANDARD WEIGHT CENTRIFUGALLY CAST, CAST IRON DWV PIPE WITH "NO-HUB" FITTINGS AND JOINTS SHALL BE USED FOR SOIL, WASTE, AND VENT PIPING. STANDARD WEIGHT CENTRIFUGALLY CAST, CAST IRON DWV PIPE WITH "TY-SEAL" FITTINGS AND JOINTS SHALL BE USED FOR SOIL, WASTE, AND VENT PIPING BELOW GRADE. PVC DWV MAY BE USED WHERE ALLOWED BY CODE.

4. PIPE HANGERS SHALL BE DESIGNED FOR FERROUS, PLASTIC, AND COPPER PIPE WITH HANGER RODS IN DIAMETERS AS REQUIRED BY HANGERS. HANGER SPACING SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE.

5. DOMESTIC HOT AND COLD WATER LINES SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS PREFORMED INSULATION WITH SELF-SEALING JOINTS. THE COLD WATER PIPING SYSTEM SHALL BE PROVIDED WITH A VAPOR BARRIER. PEX PIPING MAY BE INSTALLED WITHOUT INSULATION.

6. EXPOSED HANDICAPPED LAVATORY P-TRAPS AND SUPPLY FITTINGS SHALL BE INSULATED WITH PREFORMED FLEXIBLE CELLULAR INSULATION.

7. ALL PIPING SYSTEMS SHALL BE TESTED BEFORE COVERING AND CONCEALING IN THE PRESENCE OF THE OWNER OR THE OWNER'S REPRESENTATIVE. ALL LEAKS SHALL BE REPAIRED IN A SATISFACTORY MANNER.

8. TEST DOMESTIC WATER PIPING AT 100 PSI.

9. SOIL AND WASTE PIPE SHALL SLOPE 2% MINIMUM, UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.

10. CONTRACTOR SHALL VERIFY THE LOCATION OF THE SANITARY SEWER AND SHALL REVISE THE SEWER SYSTEM AS REQUIRED.

11. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC. AND THE OWNER'S REPRESENTATIVE PRIOR TO ANY INSTALLATION.

12. INSTALL SHUT-OFF VALVES ON ALL HOT & COLD WATER LINES TO FIXTURE OR APPLIANCE. ALL EXPOSED WATER AND WASTE LINES TO BE CHROMED PLATED.

13. ALL VALVES, UNIONS, ETC. TO BE THE SAME SIZE AS THE PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.

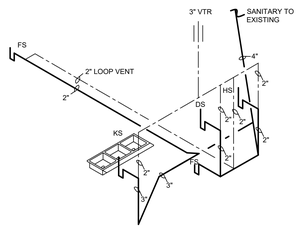
14. PROVIDE EITHER WATER HAMMER ARRESTOR OR AIR CHAMBERS FOR WATER LINES AS REQUIRED BY CODE. THIS SHALL INCLUDE ALL FLUSH VALVE PLUMBING EQUIPMENT.

15. CONTRACTOR SHALL COORDINATE INSTALLATION OF PLUMBING WORK WITH ALL OTHER TRADES SO AS TO AVOID UNNECESSARY DELAY OF INTERFERENCES. CONTRACTOR TO REVIEW ARCHITECTURAL AND EQUIPMENT SHEETS.

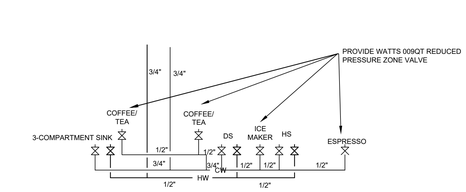
16. SCHEDULE 40 STEEL PIPE WITH EITHER WELDED OR MALLEABLE SCREWED FITTINGS SHALL BE USED FOR ABOVE GRADE GAS PIPING. NO FLEXIBLE GAS PIPING WILL BE ALLOWED.

PLUMBING LEGEND

HW	DOMESTIC HOT WATER
CW	DOMESTIC COLD WATER
SAN	WASTE LINE
– –	VENT LINE
	PLUMBING FIXTURE DESIGNATION / DESIGNATED NUMBER



4 CAFE SANITARY/VENT ISOMETRIC
SCALE: 1/8" = 1'-0"



5 CAFE SUPPLY PLUMBING RISER
SCALE: 1/8" = 1'-0"

PROJECT PLUMBING FIXTURE SCHEDULE								
ITEM	FIXTURE	SOIL OR WASTE	VENT	COLD WATER	HOT WATER	WASTE FU	WATER FU	DESCRIPTION
S 1	3-COMPARTMENT SINK	2"	2"	1/2"	1/2"	3	3	ADVANCE TABCO ADV-93-3-54-24R THREE COMPARTMENT SINK WITH RIGHT HAND DRAIN BOARD. EACH COMPARTMENT SHALL HAVE A 16" X 20" BOWL SIZE. CONSTRUCTION SHALL BE WELDED 300 SERIES STAINLESS STEEL WITH ADJUSTABLE BULLET FEET FOR LEVELING. WITH FISHER COMMERCIAL GRADE FAUCET MODEL # FIS-3251, WALL-MOUNT, 8" CENTERS, 8" SWING SPOUT.
DS 1	DROP SINK	2"	2"	1/2"	1/2"	1	1	ADVANCE TABCO 7-PS-60, HAND SINK
S 1	HAND SINK	2"	2"	1/2"	1/2"	1	1	ELKAY DAYTON BAR MODEL D11515 15" X 15" SELF RIMMING STAINLESS STEEL SINK WITH 4" CENTER TO CENTER FAUCET HOLES. FAUCET DELTA 2-HOLE 4" O.C. MODEL 2523HDF CHROME DOUBLE HANDLE TYPE.
FCO 1	FLOOR CLEANOUT	--	--	--	--	--	--	WADE IFCO2-R, CAST IRON W/ ADJUSTABLE HOUSING, ROUND HEAVY CAST IRON VANDAL PROOF TOP. (ALTERNATE JOSAM NO. 56054-15)
FS 1	FLOOR SINK	2"	2"	--	--	3	--	ZURN LIGHT COMMERCIAL 12" X 12" FLOOR SINK WITH 6" SUMP DEPTH. MODEL #FD2375-NH2-F CAST IRON BODY WITH A WHITE ACID-RESISTING COATING.

PLUMBING CONTRACTOR SHALL SUBMIT PLUMBING FIXTURE INFORMATION PRIOR TO CONSTRUCTION AND ONCE APPROVED INFORMATION SHALL BE DISTRIBUTED TO ALL SUBCONTRACTORS.

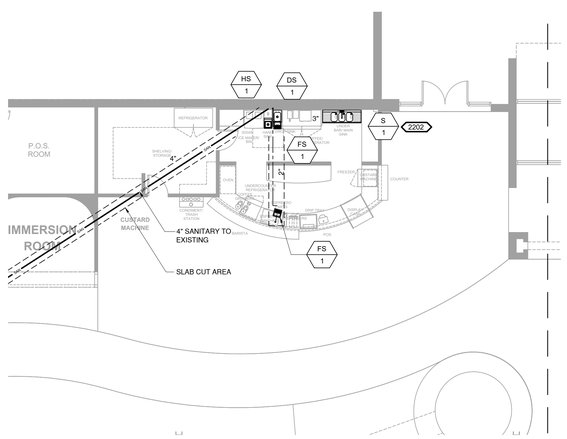
INSTALLATION NOTES: (THIS SHEET ONLY)

2200 PROVIDE LOOP VENT FOR ISLAND FLOOR SINK.

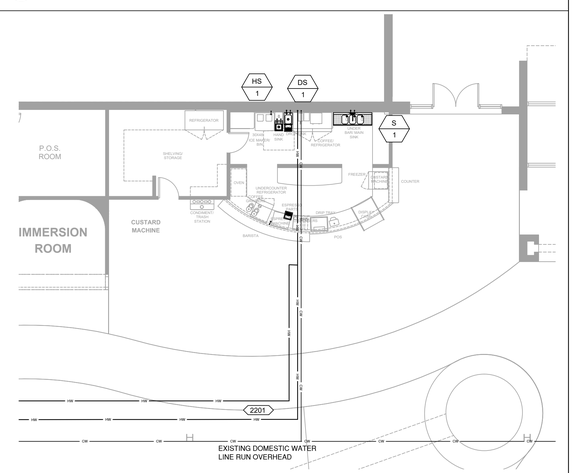
2201 PROVIDE DOMESTIC HOT WATER RE-CIRCUALTION LOOP TO THE CAFE AREA WITH 3/ 8" LINE AND RE-CIRCUALTION PUMP WITH TIMER. TAP IN TO HOT WATER AT THE EXISITNG MOP SINK AREA.

2202 PROVIDE INDIRECT DRAIN (AIR GAP) AT DRAIN FROM THREE-COMPARTMENT SINK TO FLOOR SINK.

8 PLUMBING FIXTURE SCHEDULE & NOTES
SCALE: NONE



6 CAFE SANITARY/VENT PLUMBING
SCALE: 1/8" = 1'-0"



7 CAFE SUPPLY PLUMBING
SCALE: 1/8" = 1'-0"

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2	PERMIT PRICING	2-23-2022

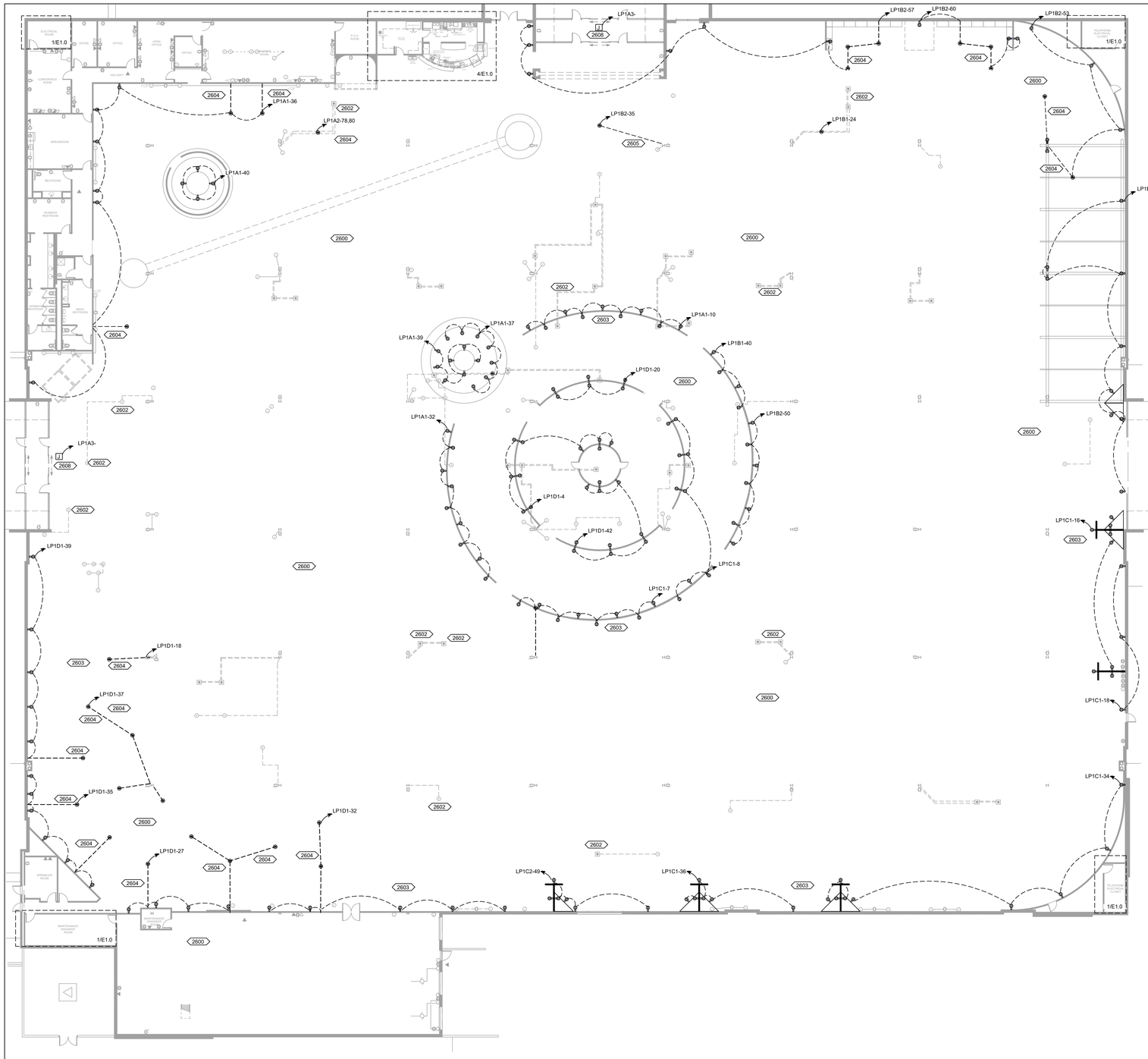
Sheet Index

Plumbing Plan
Sanitary Riser
Plumbing Schedule

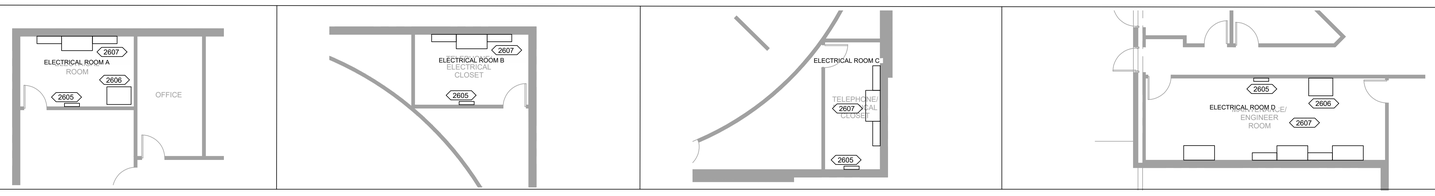
Date	2-23-2022
Drawn by	---
Checked by	SCH

P1.0

Scale: AS NOTED



2 POWER PLAN
SCALE: 1/16" = 1'-0"



1 POWER PLAN FOR ELECTRICAL ROOMS
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE (NEC).

2. ALL WIRING SHALL BE IN CONDUIT. METAL-CLAD CABLE MAY BE USED IF ALLOWED BY LOCAL JURISDICTION AND APPROVED BY OWNER.

3. CONDUIT SHALL BE EMT WITH COMPRESSION TYPE OR SCREW FITTINGS.

4. ALL FLEXIBLE METALLIC AND PVC CONDUIT WHERE ALLOWED BY LOCAL CODE IS TO BE PROVIDED WITH SEPARATE GROUND WIRE.

5. ALL POWER WIRES AND CABLES SHALL BE COPPER #12 AWG, UNLESS NOTED OTHERWISE OR REQUIRED BY THE MANUFACTURER OF THE CONNECTED DEVICE. WIRE SHALL BE CODE TYPE THWN/THHN, UNLESS OTHERWISE STATED. POWER WIRE SIZE SHALL BE UP SIZED FOR LONG CIRCUIT RUNS TO ELIMINATE VOLTAGE DROP. #12 AWG USED TO SUPPLY CIRCUITS UP TO 114' FROM PANEL,#10 AWG USED TO SUPPLY CIRCUITS WITH RUNS UP TO 181' FROM PANEL, #8 AWG USED TO SUPPLY CIRCUITS WITH RUNS UP TO 288' FROM PANEL, #6 AWG USED TO SUPPLY CIRCUITS WITH RUNS UP TO 458' FROM PANEL.

6. ALL CIRCUITS SHALL HAVE SEPARATE NEUTRALS, THROUGHOUT THE ENTIRE CIRCUIT.

7. ALL SWITCHES SHALL BE RATED AT 20 AMPS UNLESS OTHERWISE STATED.

8. ALL OUTLETS SHALL BE RATED 15 AMPS. GROUND-FAULT CIRCUIT INTERRUPTER TYPE OUTLETS SHALL BE INSTALLED IN THOSE LOCATIONS AS REQUIRED BY THE NEC OR AS DESIGNATED ON THE DRAWINGS.

9. PROVIDE ALL OUTLET, LIGHTING FIXTURES, AND J-BOXES THROUGHOUT THE AREA IN ACCESSIBLE LOCATIONS. BOXES SHALL BE OF GALVANIZED KNOCK OUT TYPE WITH SCREW COVERS.

10. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUITS, J-BOXES, WIRING, AND DISCONNECT SWITCHES. NEW THERMOSTAT J-BOXES FOR EACH HVAC UNIT SHALL BE INSTALLED IF THE CURRENT BMS IS REMOVED.

11. SUPPLY SPECIFIED EQUIPMENT OR APPROVED EQUAL.

12. CONTRACTOR SHALL VERIFY ALL EQUIPMENT NAME PLATES AND INSTALLATION REQUIREMENTS PRIOR TO DOING WORK. EQUIPMENT IS TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS. NOTE CAFE EQUIPMENT.

13. CLASSROOMS, MULTIPURPOSE ROOMS, OPEN OFFICE AREAS, ENCLOSED OFFICES, BREAKROOMS, RESTROOMS, STORAGE ROOMS, AND WAREHOUSE AREAS SHALL BE PROVIDED WITH OCCUPANT SENSOR CONTROLS PER IECC C405.2.1..

14. PROVIDE LIGHTING REDUCTION CONTROLS WITH MANUAL CONTROL THAT ALLOWS THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A UNIFORM PATTERN BY NOT LESS THAN 50% BY AN APPROVED METHOD PER IECC C405.2.2.2. EXCEPTIONS INCLUDE EMERGENCY AREAS, SECURITY AREAS, STAIRWAYS, EXIT PASSAGES, AND EMERGENCY EGRESS LIGHTING THAT IS NORMALLY OFF.

INSTALLATION NOTES: (THIS SHEET ONLY)

2600 SEE ARCHITECTURAL OR STORE DESIGN DRAWINGS FOR MOST CURRENT ELECTRICAL LAYOUT PRIOR TO BEGINNING CONSTRUCTION.

2601 ALL RECEPTACLES IN THE FOOD SERVICE AREA SHALL BE GFCI TYPE OR CONNECTED TO A GFCI BREAKER IN THE NEW ELECTRICAL DISTRIBUTION PANEL.

2602 EXISTING FLOOR RECEPTACLES TO BE REMOVED FOR NEW FLOORING. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

2603 GENERAL 20 AMP RECEPTACLE CIRCUITS SHALL BE LIMITED TO NO MORE THAN 10 DUPLEX RECEPTACLES.

2604 CUT OUT AREA TO RUN WIRES IN SLAB FOR DISPLAY WALLS.

2605 LEVITON TLLP G32S1-130 PANELS WITH 15 AMP BREAKERS THAT SERVE THE TRACK LIGHTING AND MOVABLE WALL RECEPTACLES.

2606 EXISTING STEP-DOWN ELECTRICAL TRANSFORMER MOVED FROM ELECTRICAL ROOM D TO FEED NEW CAFE PANEL.

2607 EXISTING ELECTRICAL PANELS. SEE PANEL SCHEDULES ON SHEET E3.0 AND EXISTING ELECTRICAL RISER ON SHEET E4.0 FOR REFERENCE.

2608 PROVIDE JUNCTION BOX AND POWER FOR NEW AUTOMATIC SLIDING ENTRY DOORS.

POWER LEGEND:

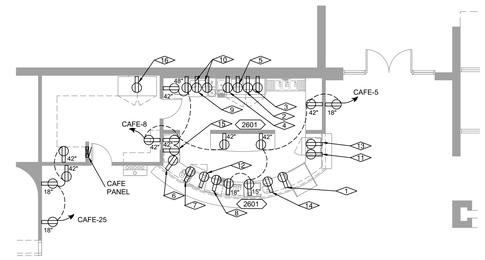
- NEW STANDARD DUPLEX RECEPTACLE MOUNTED AT 18" TO CENTER ABOVE FINISHED FLOOR. (A.F.F.)
- EXISTING STANDARD DUPLEX RECEPTACLE
- GROUND FAULT INTERRUPTER TYPE RECEPTACLE, LEVITON RGF15-WG OR EQUIVALENT - FOR USE IN BATHROOMS/RESTROOMS/KITCHEN, AND OTHER AREAS WHERE WATER IS PRESENT.
- WEATHER RESISTANT GROUND FAULT INTERRUPTER TYPE RECEPTACLE WITH WEATHERPROOF BOX, LEVITON IUM1V-KRG OR EQUIVALENT - FOR USE OUTDOORS.
- STANDARD DUPLEX RECEPTACLE MOUNTED ON CEILING - FOR USE IN STOREFRONT WINDOWS OR CEILING MOUNTED EQUIPMENT
- NEW STANDARD DUPLEX RECEPTACLE MOUNTED IN FLOOR IN CONCRETE FLOOR BOX.
- EXISTING STANDARD DUPLEX RECEPTACLE MOUNTED IN FLOOR IN CONCRETE FLOOR BOX.
- POWER DROP WITH A MAXIMUM OF THREE RECEPTACLES UNLESS NOTED OTHERWISE.
- NEW ELECTRICAL PANEL
- EXISTING DATA OUTLET

ELECTRICAL EQUIPMENT SCHEDULE:

ITEM NO.	RECEPT. HEIGHT	DESCRIPTION	SERVICE TO EQUIPMENT		REMARKS
			PANEL & CIRCUIT NUMBER	LOAD (VOLT / AMP)	
1	15"	REFRIGERATED DISPLAY CASE	CAFE-1	120 V / 24 A	CONSULT EQUIPMENT NAMEPLATE
2	45"	WATER TOWER	CAFE-16	120 V / 12.5 A	CONSULT EQUIPMENT NAMEPLATE
3	45"	COFFEE BREWER	CAFE-10,12	220 V / 25.8 A	CONSULT EQUIPMENT NAMEPLATE
4	45"	COFFEE GRINDER	CAFE-14	120 V / 15 A	CONSULT EQUIPMENT NAMEPLATE
5	18"	UC REFRIGERATOR	CAFE-11	115 V / 8.5 A	CONSULT EQUIPMENT NAMEPLATE
6	18"	ESPRESSO GRINDER	CAFE-15,17	220 V / 15 A	CONSULT EQUIPMENT NAMEPLATE
7	18"	ESPRESSO GRINDER	CAFE-13	120 V / 15 A	CONSULT EQUIPMENT NAMEPLATE
8	18"	ESPRESSO MACHINE	CAFE-7,9	220 V / 30 A	CONSULT EQUIPMENT NAMEPLATE
9	18"	ICE MAKER	CAFE-24	115 V / 10.7 A	CONSULT EQUIPMENT NAMEPLATE
10	48"	BLENDER (2)	CAFE-20 & CAFE-22	115 V / 13 A	CONSULT EQUIPMENT NAMEPLATE
11	18"	UC FREEZER	CAFE-12	115 V / 15 A	CONSULT EQUIPMENT NAMEPLATE
12	18"	UC REFRIGERATOR	CAFE-11	120 V / 15 A	CONSULT EQUIPMENT NAMEPLATE
13	42"	CUSTARD MACHINE	CAFE-4,6	230 V / 60 A	CONSULT EQUIPMENT NAMEPLATE
14	15"	POS	CAFE-3	120 V / 5 A	PROVIDE ISOLATED GROUND
15	18"	OVEN (11 KW)	CAFE-19,21	208 V / 70 A	CONSULT EQUIPMENT NAMEPLATE
16	18"	REACH-IN REFRIGERATOR	CAFE-23	120 V / 12 A	CONSULT EQUIPMENT NAMEPLATE

VERIFY EQUIPMENT WITH OWNER OR OWNER REPRESENTATIVE. SEE ARCHITECT AND DESIGNER DRAWING FOR ADDITIONAL INSTALLATION INFORMATION AND COORDINATION WITH CABINETRY. CONSULT EQUIPMENT MANUFACTURE FOR POWER CONNECTION INFORMATION.

3 ELECTRICAL EQUIPMENT SCHEDULE
SCALE: NONE



4 POWER PLAN FOR CAFE
SCALE: 1/8" = 1'-0"

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No.	Description	Date
1	REVIEW 1	2-11-2022
2	PERMIT PRICING	2-23-2022

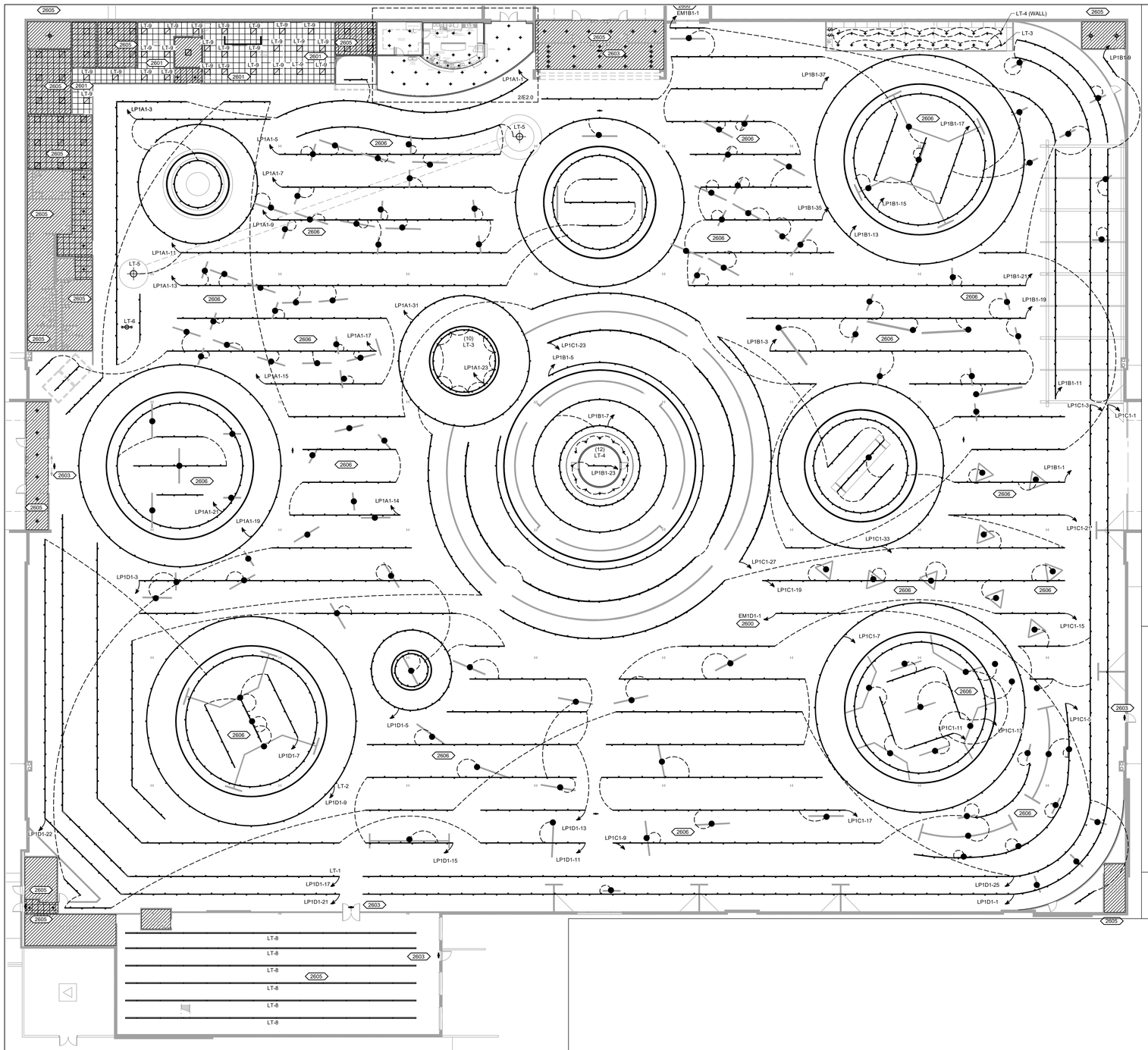
Sheet Index

Power Plan, Riser, Cafe Power Plan Cafe Equipment Schedule

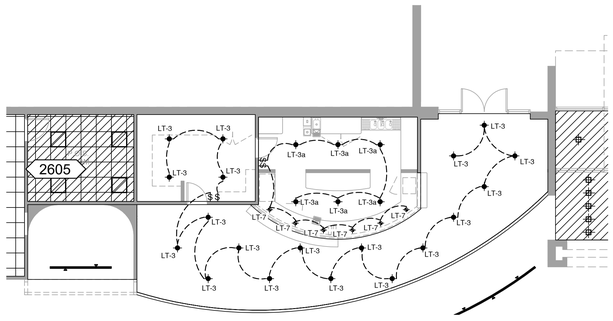
Date	2-23-2022
Drawn by	SAE
Checked by	SCH

E1.0

Scale: AS NOTED



1 LIGHTING PLAN AND WALL DROPS
SCALE: 1/16" = 1'-0"



2 CAFE LIGHTING PLAN
SCALE: 1/8" = 1'-0"

TRACK LIGHT INSTALLATION NOTES:

HANGING METHOD FOR TRACK LIGHTING IS TO BE TESTED ON A 90' SECTION AND APPROVED BY OWNER OR OWNER REPRESENTATIVE PRIOR TO FULL INSTALLATION BEING COMPLETED. METHODS FOR TESTING CAN BE:
1. ALL-THREAD ROD METHOD
2. CABLE METHOD
3. ANOTHER METHOD PROPOSED BY ELECTRICIAN

CABLE METHOD:

1. CHALK LINE ON THE FLOOR WHERE TRACK GOES.
2. MARK SPOTS ON FLOOR ALONG CHALK LINE FOR CABLE LOCATION TO ALIGN WITH HOLES IN TRACK.
3. USE LASER TO SPOT MARK ON DECK FOR SAMMY.
4. USING PRE-ASSEMBLED AIRCRAFT CABLE WITH STABILIZER BAR, SCREW CABLE INTO THE DECK. GET ENTIRE RUN HUNG IN ROUGH HEIGHT LOCATION.
5. USING SMALL MAGNETIC DISTANCE LASER--ATTACH LASER TO TRACK TO MEASURE HEIGHT OFF OF THE FLOOR AND ADJUST HEIGHT ACCORDINGLY.

*WHERE 12' TRACKS ARE USED, ATTACH CABLE EVERY 6'.

POWER SUPPLIED BY TRACK LIGHTS:

ENGINEER MUST BE CONSULTED FOR CHANGES TO INTERIOR WALLS AND RECEPTACLES WHERE RECEPTACLES ARE POWERED BY DROPS FROM TRACK LIGHTING.

INSTALLATION NOTES: (THIS SHEET ONLY)

2600 CIRCUIT TRACK RUN TO EMERGENCY POWER LIGHT CIRCUIT. (PANELS EM1B1 AND EM1D1)

2601 NEW 277V LIGHTING INSTALLED TO MATCH EXISTING 2X2 TROFFER, PANEL HP-1A1.

2603 REUSE EXISTING EXIT SIGNS OR REPLACE WITH LIKE UNITS.

2604 SEE E3.0-2 FOR TRACK LIGHT CONTROLS.

2605 EXISTING 277V LIGHTING TO REMAIN IN THIS ROOM.

2606 NEW MOVABLE DISPLAY WALL RECEPTACLES SHALL BE POWERED BY OVERHEAD POWER DROPS FROM THE TRACK LIGHTING SYSTEM. CONSULT OWNER OR OWNER REPRESENTATIVE FOR FINAL CIRCUIT ROUTING TO POWER TO MOVABLE DISPLAY WALLS.

EMERGENCY EXIT LIGHTING LEGEND:

- EXISTING ILLUMINATED EXIT SIGN
- NEW ILLUMINATED EXIT SIGN. SEE FIXTURE Y IN LIGHTING SCHEDULE.

LIGHTING LEGEND:

- $ STANDARD AC TOGGLE SWITCH MOUNTED AT 48" TO CENTER ABOVE FINISHED FLOOR (A.F.F.), LEVITON SKU 01221-380-002 OR EQUIVALENT.
- $3 3 - WAY AC TOGGLE SWITCH MOUNTED AT 48" TO CENTER ABOVE FINISHED FLOOR (A.F.F.), LEVITON SKU 01223-380-002 OR EQUIVALENT.
- $3M 3-WAY OCCUPANCY SENSOR SWITCH MOUNTED AT 48" TO CENTER ABOVE FINISHED FLOOR (A.F.F.), LEVITON IPS15-LZ OR EQUIVALENT.
- $MD 3-WAY CAPABLE OCCUPANCY DIMMER COMBINATION MOUNTED AT 48" TO CENTER ABOVE FINISHED FLOOR (A.F.F.), LUTRON MSCL-OP153M OR EQUIVALENT.
- POWER DROP TO MOVABLE WALLS FROM RECEPTACLE ADAPTER ON LIGHTING TRACK.

INTERIOR LIGHTING POWER DENSITY

AREA DESCRIPTION	FIXTURE TYPE	FIXTURE LOAD (W)	QUANTITY OF FIXTURES	ACTUAL LOAD (W)	ALLOWED DENSITY (W / S.F.)	AREA OF SPACE (S.F.)	ALLOWED LOAD (W)
SALES FLOOR	LT-1	16	2536	40576	0.95	85850	81558
	LT-2	16	672	10752			
	LT-3	50	4	200			
	LT-4	50	1	50			
OFFICE STORAGE	LT-7	19	8	152	1.0	1600	1520
CAFÉ	LT-5	28	15	420	0.7	1375	894
	LT-6	6	7	42			
OFFICES	EXISTING			0	1.0	500	490
ELECTRICAL ROOM	EXISTING			0	1.0	275	261
RESTROOMS/BREAKROOM	LT-7	19	53	1007	0.7	1825	1332
WAREHOUSE	EXISTING			0	1.0	4425	4204
Total				53199			90259

3 LIGHTING POWER DENSITY, NOTES
SCALE: 1/8" = 1'-0"

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FOR REVIEW ONLY

FURNITURE MALL OF MISSOURI
900 NW BLUE PARKWAY
LEE'S SUMMIT, MO

No.	Description	Date
1	REVIEW 1	2-11-2022
2	PERMIT PRICING	2-23-2022

Sheet Index

Lighting Plans

Date	2-23-2022
Drawn by	SAE
Checked by	SCH

E2.0

Scale AS NOTED

LP1A1

(10,000 A.I.C.)

VOLTAGE: 120/208 V | MAIN: 150 A | FEED: EXISTING

PHASE: 3Ø | WIRE: 4 | LOCATION: ELECTRICAL ROOM A | MOUNTING: EXISTING

DESCRIPTION	REC	LTG	VA A	VA B	VA C	BRKR AMP	BRKR P	CKT NO.	BUS CONN	CKT NO.	BRKR P	BRKR AMP	VA A	VA B	VA C	REC	LTG	DESCRIPTION
TRACK LIGHTING QUAD A	-	-	1650			20	1	1		2	1	20	1260			-	-	EXISTING
TRACK LIGHTING QUAD A	2	-		1793		20	1	3		4	1	20		840		-	-	EXISTING
TRACK LIGHTING QUAD A	10	-			1680	20	1	5		6	1	20			900	-	-	EXISTING
TRACK LIGHTING QUAD A	4	-	1755			20	1	7		8	1	20	720			-	-	EXISTING
TRACK LIGHTING QUAD A	12	-		1800		20	1	9		10	1	20		1440		9	-	RECEPTACLES QUAD A
TRACK LIGHTING QUAD A	10	-			1800	20	1	11		12	1	20			540	-	-	EXISTING
TRACK LIGHTING QUAD A	2	-	1725			20	1	13		14	1	20	1485			12	-	TRACK LIGHTING QUAD A
TRACK LIGHTING QUAD A	12	-		1560		20	1	15		16	1	20		540		-	-	EXISTING
TRACK LIGHTING QUAD A	14	-			1530	20	1	17		18	1	20			900	-	-	EXISTING
TRACK LIGHTING QUAD A	2	-	1763			20	1	19		20	1	20	900			-	-	EXISTING
TRACK LIGHTING QUAD A	8	-		1740		20	1	21		22	1	20		1080		-	-	EXISTING
EXISTING	-	-			800	20	1	23		24	1	20			1200	-	-	EXISTING
EXISTING	-	-	800			20	1	25		26	1	20	800			-	-	EXISTING
EXISTING	-	-		800		20	1	27		28	1	20		800		-	-	EXISTING
EXISTING	-	-			800	20	1	29		30	1	20			800	-	-	EXISTING
TRACK LIGHTING QUAD A	-	-	1673			20	1	31		32	1	20	1200			-	-	EXISTING
EXISTING	-	-		1200		20	1	33		34	1	20		220		-	-	EXISTING
EXISTING	-	-			380	20	1	35		36	1	20			1620	9	-	RECEPTACLES QUAD A
RECPTACLES QUAD A	8	-	1440			20	1	37		38	1	20	720			-	-	EXISTING
RECPTACLES QUAD A	7	-		1080		20	1	39		40	1	20		720		4	-	RECEPTACLES QUAD A
EXISTING	-	-			400	20	1	41		42	1	20			900	-	-	EXISTING
			10806	9973	7390								7085	5640	6860			

WATTS: BUS A: 17891
BUS B: 15613
BUS C: 14250
TOTAL WATTAGE 47754

ELECTRICAL PANEL: LA1A2

(10,000 A.I.C.)

VOLTAGE: 120/208 V | MAIN: 150A | FEED: EXISTING

PHASE: 3Ø | WIRE: 4 | LOCATION: ELECTRICAL ROOM A | MOUNTING: EXISTING

DESCRIPTION	REC	LTG	VA A	VA B	VA C	BRKR AMP	BRKR P	CKT NO.	BUS CONN	CKT NO.	BRKR P	BRKR AMP	VA A	VA B	VA C	REC	LTG	DESCRIPTION
EXISTING	-	-	1125			20	1	43		44	1	20	1260			-	-	EXISTING
EXISTING	-	-		1125		20	1	45		46	1	20		840		-	-	EXISTING
EXISTING	-	-			1380	20	1	47		48	1	20			900	-	-	EXISTING
EXISTING	-	-	1170			20	1	49		50	1	20	720			-	-	EXISTING
EXISTING	-	-		970		20	1	51		52	1	20		550		-	-	EXISTING
EXISTING	-	-			500	20	1	53		54	1	20			540	-	-	EXISTING
EXISTING	-	-	1260			20	1	55		56	1	20	540			-	-	EXISTING
EXISTING	-	-		1260		20	1	57		58	1	20		540		-	-	EXISTING
EXISTING	-	-			1305	20	1	59		60	1	20			900	-	-	EXISTING
EXISTING	-	-	1220			20	1	61		62	1	20	900			-	-	EXISTING
EXISTING	-	-		800		20	1	63		64	1	20		1080		-	-	EXISTING
EXISTING	-	-			800	20	1	65		66	1	20			1200	-	-	EXISTING
EXISTING	-	-	800			20	1	67		68	1	20	800			-	-	EXISTING
EXISTING	-	-		800		20	1	69		70	1	20		800		-	-	EXISTING
EXISTING	-	-			800	20	1	71		72	1	20			800	-	-	EXISTING
EXISTING	-	-	200			20	1	73		74	1	20	1200			-	-	EXISTING
EXISTING	-	-		1200		20	1	75		76	1	20		220		-	-	EXISTING
EXISTING	-	-			380	20	1	77		78	1	20			595	-	-	EXISTING
EXISTING	-	-	800			20	1	79		80	1	20	720			-	-	EXISTING
EXISTING	-	-		800		20	1	81		82	1	20		420		-	-	EXISTING
EXISTING	-	-			400	20	1	83		84	1	20			900	-	-	EXISTING
			6575	6955	5565								6140	4450	5835			

WATTS: BUS A: 12715
BUS B: 11405
BUS C: 11400
TOTAL WATTAGE 35520

ELECTRICAL PANEL: LP1A3

(10,000 A.I.C.)

VOLTAGE: 120/208 V | MAIN: 100A | FEED: EXISTING

PHASE: 3Ø | WIRE: 4 | LOCATION: ELECTRICAL ROOM A | MOUNTING: EXISTING

DESCRIPTION	REC	LTG	VA A	VA B	VA C	BRKR AMP	BRKR P	CKT NO.	BUS CONN	CKT NO.	BRKR P	BRKR AMP	VA A	VA B	VA C	REC	LTG	DESCRIPTION
EXISTING	-	-	865			20	1	85		86	1	20	2500			-	-	EXISTING
EXISTING	-	-		700		20	1	87		88	1	20		2600		-	-	EXISTING
EXISTING	-	-			700	20	1	89		90	1	20			2290	-	-	EXISTING
EXISTING	-	-	700			20	1	91		92	1	20	2290			-	-	EXISTING
EXISTING	-	-		696		20	1	93		94	1	20		500		-	-	EXISTING
EXISTING	-	-			1700	20	1	95		96	1	20			500	-	-	EXISTING
EXISTING	-	-	100			20	1	97		98	1	20				-	-	SPARE
SPARE	-	-				20	1	99		100	1	20				-	-	SPARE
SPARE	-	-				20	1	101		102	1	20				-	-	SPARE
SPARE	-	-				20	1	103		104	1	20				-	-	SPACE
SPACE	-	-				20	1	105		106	1	20				-	-	SPACE
SPACE	-	-				20	1	107		108	1	20				-	-	SPACE
SPACE	-	-				20	1	109		110	1	20				-	-	SPACE
SPACE	-	-				20	1	211		112	1	20				-	-	SPACE
SPACE	-	-				20	1	213		114	1	20				-	-	SPACE
SPACE	-	-				20	1	215		116	1	20				-	-	SPACE
SPACE	-	-				20	1	217		118	1	20				-	-	SPACE
SPACE	-	-				20	1	219		120	1	20				-	-	SPACE
SPACE	-	-				20	1	221		122	1	20				-	-	SPACE
SPACE	-	-				20	1	223		124	1	20				-	-	SPACE
SPACE	-	-				20	1	225		126	1	20				-	-	SPACE
			1665	1396	2400								4790	3100	2790			

WATTS: BUS A: 6455
BUS B: 4496
BUS C: 5190
TOTAL WATTAGE 16141

ELECTRICAL PANEL: LP1B1

(10,000 A.I.C.)

VOLTAGE: 120/208 V | MAIN: 150A | FEED: EXISTING

PHASE: 3Ø | WIRE: 4 | LOCATION: ELECTRICAL ROOM B | MOUNTING: EXISTING

DESCRIPTION	REC	LTG	VA A	VA B	VA C	BRKR AMP	BRKR P	CKT NO.	BUS CONN	CKT NO.	BRKR P	BRKR AMP	VA A	VA B	VA C	REC	LTG	DESCRIPTION
TRACK LIGHTING QUAD B	6	-	1410			20	1	1		2	1	20	900			-	-	EXISTING
TRACK LIGHTING QUAD B	12	-		1680		20	1	3		4	1	20		720		-	-	EXISTING
TRACK LIGHTING QUAD B	-	-			1478	20	1	5		6	1	20			920	-	-	EXISTING
TRACK LIGHTING QUAD B	-	-	1793			20	1	7		8	1	20	720			-	-	EXISTING
TRACK LIGHTING QUAD B	4	-		1590		20	1	9		10	1	20		900		-	-	EXISTING
TRACK LIGHTING QUAD B	6	-			1575	20	1	11		12	1	20			720	-	-	EXISTING
TRACK LIGHTING QUAD B	-	-	1703			20	1	13		14	1	20	900			-	-	EXISTING
TRACK LIGHTING QUAD B	12	-		1785		20	1	15		16	1	20		720		-	-	EXISTING
TRACK LIGHTING QUAD B	10	-			1770	20	1	17		18	1	20			900	-	-	EXISTING
TRACK LIGHTING QUAD B	16	-	1680			20	1	19		20	1	20	900			-	-	EXISTING
TRACK LIGHTING QUAD B	8	-		1725		20	1	21		22	1	20		945		-	-	EXISTING
EXISTING	-	-			360	20	1	23		24	1	20			800	-	-	EXISTING
EXISTING	-	-	800			20	1	25		26	1	20	800			-	-	EXISTING
EXISTING	-	-		800		20	1	27		28	1	20		800		-	-	EXISTING
EXISTING	-	-			800	20	1	29		30	1	20			800	-	-	EXISTING
EXISTING	-	-	800			20	1	31		32	1	20	900			-	-	EXISTING
EXISTING	-	-		720		20	1	33		34	1	20		900		-	-	EXISTING
TRACK LIGHTING QUAD B	14	-			1425	20	1	35		36	1	20			1440	-	-	EXISTING
TRACK LIGHTING QUAD B	6	-	1305			20	1	37		38	1	20	1440			-	-	EXISTING
EXISTING	-	-		800		20	1	39		40	1	20		420		4	-	RECEPTACLES QUAD B
EXISTING	-	-			800	20	1	41		42	1	20			600	-	-	EXISTING
			9491	9100	8208								6560	5405	6180			

WATTS: BUS A: 16051
BUS B: 14505
BUS C: 14388
TOTAL WATTAGE 44944

ELECTRICAL PANEL: LP1B2

(10,000 A.I.C.)

VOLTAGE: 120/208 V | MAIN: 100A | FEED: EXISTING

PHASE: 3Ø | WIRE: 4 | LOCATION: ELECTRICAL ROOM B | MOUNTING: EXISTING

DESCRIPTION	REC	LTG	VA A	VA B	VA C	BRKR AMP	BRKR P	CKT NO.	BUS CONN	CKT NO.	BRKR P	BRKR AMP	VA A	VA B	VA C	REC	LTG	DESCRIPTION
EXISTING	-	-	800			20	1	43		44	1	20	800			-	-	EXISTING
EXISTING	-	-		800		20	1	45		46	1	20		1620		9	-	RECEPTACLES QUAD B
EXISTING	-	-			800	20	1	47		48	1	20			800	-	-	EXISTING
EXISTING	-	-	800			20	1	49		50	1	20	1620			9	-	RECEPTACLES QUAD B
EXISTING	-	-		720		20	1	51		52	1	20		540		-	-	EXISTING
RECEPTACLES QUAD B	7	-			1260	20	1	53		54	1	20			400	-	-	EXISTING
EXISTING	-	-	800			20	1	55		56	1	20	200			-	-	EXISTING
RECEPTABCLES QUAD B	10	-		1800		20	1	57		58	1	20		700		-	-	EXISTING
EXISTING	-	-			800	20	1	59		60	1	20			1080	6	-	RECEPTACLES QUAD B
EXISTING	-	-	600			20	1	61		62	1	20	500			-	-	EXISTING
EXISTING	-	-		100		20	1	63		64	1	20		500		-	-	EXISTING
SPARE	-	-				20	1	65		66	1	20				-	-	SPARE
SPARE	-	-				20	1	67		68	1	20				-	-	SPARE
SPARE	-	-				20	1	69		70	1	20				-	-	SPARE
SPACE	-	-				20	1	71		72	1	20				-	-	SPACE
SPACE	-	-				20	1	73		74	1	20				-	-	SPACE
SPACE	-	-				20	1	75		76	1	20				-	-	SPACE
SPACE	-	-				20	1	77		78	1	20				-	-	SPACE
SPACE	-	-				20	1	79		80	1	20				-	-	SPACE
SPACE	-	-				20	1	81		82	1	20				-	-	SPACE
SPACE	-	-				20	1	83		84	1	20				-	-	SPACE
			3000	3420	2860								3120	3360	2280			

WATTS: BUS A: 6120
BUS B: 6780
BUS C: 5140
TOTAL WATTAGE 18040

ELECTRICAL PANEL: LP1C1

(10,000 A.I.C.)

VOLTAGE: 120/208 V | MAIN: 150A | FEED: EXISTING

PHASE: 3Ø | WIRE: 4 | LOCATION: ELECTRICAL ROOM C | MOUNTING: EXISTING

DESCRIPTION	REC	LTG	VA A	VA B	VA C	BRKR AMP	BRKR P	CKT NO.	BUS CONN	CKT NO.	BRKR P	BRKR AMP	VA A	VA B	VA C	REC	LTG	DESCRIPTION
TRACK LIGHTING QUAD C	6	-	1755			20	1	1		2	1	20	720			-	-	EXISTING
TRACK LIGHTING QUAD C	5	-		1560		20	1	3		4	1	20		720		-	-	EXISTING
TRACK LIGHTING QUAD C	#	-			1800	20	1	5		6	1	20			1080	-	-	EXISTING
TRACK LIGHTING QUAD C	-	-	1703			20	1	7		8	1	20	720			-	-	EXISTING
TRACK LIGHTING QUAD C	#	-		1695		20	1	9		10	1	20		510		-	-	EXISTING
TRACK LIGHTING QUAD C	#	-			1800	20	1	11		12	1	20			1140	-	-	EXISTING
TRACK LIGHTING QUAD C	8	-	1785			20	1	13		14	1	20	1140			-	-	EXISTING
TRACK LIGHTING QUAD C	4	-		1650		20	1	15		16	1	20		1440		8	-	RECEPTACLES QUAD C
TRACK LIGHTING QUAD C	6	-			1530	20	1	17		18	1	20			1800	10	-	RECEPTACLES QUAD C
TRACK LIGHTING QUAD C	#	-	1740			20	1	19		20	1	20	900			-	-	EXISTING
TRACK LIGHTING QUAD C	3	-		1545		20	1	21		22	1	20		900		-	-	EXISTING
TRACK LIGHTING QUAD C	-	-			1673	20	1	23		24	1	20			720	-	-	EXISTING
EXISTING	-	-	800			20	1	25		26	1	20	1440			-	-	EXISTING
TRACK LIGHTING QUAD C	6	-		1425		20	1	27		28	1	20		1440		-	-	EXISTING
EXISTING	-	-			800	20	1	29		30	1	20			540	-	-	EXISTING
EXISTING	-	-	800			20	1	31		32	1	20	555			-	-	EXISTING
TRACK LIGHTING QUAD C	2	-		1748		20	1	33		34	1	20		1440		8	-	RECEPTACLES QUAD C
EXISTING	-	-			540	20	1	35		36	1	20			1620	9	-	RECEPTACLES QUAD C
EXISTING	-	-	600			20	1	37		38	1	20	800			-	-	EXISTING
EXISTING	-	-		720		20	1	39		40	1	20		1080		-	-	EXISTING
EXISTING	-	-			530	20	1	41		42	1	20			700	-	-	EXISTING
			9183	10343	8673								6275	7530	7600			

WATTS: BUS A: 15458
BUS B: 17873
BUS C: 16273
TOTAL WATTAGE 49604

ELECTRICAL PANEL: LP1C2

(10,000 A.I.C.)

VOLTAGE: 120/208 V | MAIN: 100A | FEED: EXISTING

PHASE: 3Ø | WIRE: 4 | LOCATION: ELECTRICAL ROOM C | MOUNTING: EXISTING

DESCRIPTION	REC	LTG	VA A	VA B	VA C	BRKR AMP	BRKR P	CKT NO.	BUS CONN	CKT NO.	BRKR P	BRKR AMP	VA A	VA B	VA C	REC	LTG	DESCRIPTION
EXISTING	-	-	1170			20	1	43		44	1	20	500			-	-	EXISTING
EXISTING	-	-		1250		20	1	45		46	1	20		500		-	-	EXISTING
EXISTING	-	-			1250	20	1	47		48	1	20			100	-	-	EXISTING
RECEPTACLES QUAD C	10	-	1800			20	1	49		50	1	20	1050			-	-	EXISTING
SPARE	-	-				20	1	51		52	1	20				-	-	SPARE
SPARE	-	-				20	1	53		54	1	20				-	-	SPARE
SPARE	-	-				20	1	55		56	1	20				-	-	SPARE
SPACE	-	-				20	1	57		58	1	20				-	-	SPACE
SPACE	-	-				20	1	59		60	1	20				-	-	SPACE
SPACE	-	-				20	1	61		62	1	20				-	-	SPACE
SPACE	-	-				20	1	63		64	1	20				-	-	SPACE
SPACE	-	-				20	1	65		66	1	20				-	-	SPACE
SPACE	-	-				20	1	67		68	1	20				-	-	SPACE
SPACE	-	-				20	1	69		70	1	20				-	-	SPACE
SPACE	-	-				20	1	71		72	1	20				-	-	SPACE
SPACE	-	-				20	1	73		74	1	20				-	-	SPACE
SPACE	-	-				20	1	75		76	1	20				-	-	SPACE
SPACE	-	-				20	1	77		78	1	20				-	-	SPACE
SPACE	-	-				20	1	79		80	1	20				-	-	SPACE
SPACE	-	-				20	1	81		82	1	20				-	-	SPACE
SPACE	-	-				20	1	83		84	1	20				-	-	SPACE
			2970	1250	1250								1550	500	100			

WATTS: BUS A: 4520
BUS B: 1750
BUS C: 1350
TOTAL WATTAGE 7620

ELECTRICAL PANEL: LP1D1

(10,000 A.I.C.)

VOLTAGE: 120/208 V | MAIN: 150A | FEED: EXISTING

PHASE: 3Ø | WIRE: 4 | LOCATION: ELECTRICAL ROOM D | MOUNTING: EXISTING

DESCRIPTION	REC	LTG	VA A	VA B	VA C	BRKR AMP	BRKR P	CKT NO.	BUS CONN	CKT NO.	BRKR P	BRKR AMP	VA A	VA B	VA C	REC	LTG	DESCRIPTION
TRACK LIGHTING	2	-	1800			20	1	1		2	1	20	660			-	-	EXISTING
TRACK LIGHTING	#	-		1620		20	1	3		4	1	20		480		-	-	EXISTING
TRACK LIGHTING	2	-			1763	20	1	5		6	1	20			560	-	-	EXISTING
TRACK LIGHTING	#	-	1560			20	1	7		8	1	20	720			-	-	EXISTING
TRACK LIGHTING	-	-		1703		20	1	9		10	1	20		720		-	-	EXISTING
TRACK LIGHTING	2	-			1710	20	1	11		12	1	20			720	-	-	EXISTING
TRACK LIGHTING	4	-	1710			20	1	13		14	1	20	900			-	-	EXISTING
TRACK LIGHTING	#	-		1605		20	1	15		16	1	20		900		-	-	EXISTING
TRACK LIGHTING	-	-			1515	20	1	17		18	1	20			900	-	-	EXISTING
TRACK LIGHTING	-	-	1785			20	1	19		20	1	20	900			-	-	EXISTING
TRACK LIGHTING	-	-		825		20	1	21		22	1	20		720		-	-	EXISTING
EXISTING	-	-			800	20	1	23		24	1	20			1440	-	-	EXISTING
TRACK LIGHTING	-	-	1680			20	1	25		26	1	20	1440			-	-	EXISTING
RECEPTACLES QUAD D	8	-		1440		20	1	27		28	1	20		600		-	-	EXISTING
EXISTING	-	-			800	20	1	29		30	1	20			720	-	-	EXISTING
EXISTING	-	-	800			20	1	31		32	1	20	1260			7	-	RECEPTACLES QUAD D
EXISTING	-	-		380		20	1	33		34	1	20		1440		8	-	RECEPTACLES QUAD D
RECEPTACLES QUAD D	8	-			1440	20	1	35		36	1	20			540	-	-	EXISTING
RECEPTACLES QUAD D	8	-	1440			20	1	37		38	1	20	200			-	-	EXISTING
RECEPTACLES QUAD D	9	-		1620		20	1	39		40	1	20		400		-	-	EXISTING
EXISTING	-	-			720	20	1	41		42	1	20		360		#	-	RECEPTACLES QUAD D
			####	9193	8748								6080	5620	4880			

WATTS: BUS A: 16855
BUS B: 14813
BUS C: 13628
TOTAL WATTAGE 45296

ELECTRICAL PANEL: LP1D2

(10,000 A.I.C.)

VOLTAGE: 120/208 V | MAIN: 100A | FEED: EXISTING

PHASE: 3Ø | WIRE: 4 | LOCATION: ELECTRICAL ROOM D | MOUNTING: EXISTING

DESCRIPTION	REC	LTG	VA A	VA B	VA C	BRKR AMP	BRKR P	CKT NO.	BUS CONN	CKT NO.	BRKR P	BRKR AMP	VA A	VA B	VA C	REC	LTG	DESCRIPTION
EXISITING	-	-	800			20	1	43		44	1	20	1200			-	-	EXISITING
RECEPTACLES QUAD D	10	-		1800		20	1	45		46	1	20		1200		-	-	EXISITING
EXISITING	-	-			800	20	1	47		48	1	20			565	-	-	EXISITING
EXISITING	-	-	800			20	1	49		50	1	20	565			-	-	EXISITING
EXISITING	-	-		540		20	1	51		52	1	20		565		-	-	EXISITING
EXISITING	-	-			540	20	1	53		54	1	20			565	-	-	EXISITING
EXISITING	-	-	200			20	1	55		56	1	20	1440			-	-	EXISITING
EXISITING	-	-		1500		20	1	57		58	1	20		1250		-	-	EXISITING
EXISITING	-	-			1200	20	1	59		60	1	20				-	-	SPARE
SPARE	-	-				20	1	61		62	1	20				-	-	SPARE
SPARE	-	-				20	1	63		64	1	20				-	-	SPARE
SPARE	-	-				20	1	65		66	1	20				-	-	SPACE
SPACE	-	-				20	1	67		68	1	20				-	-	SPACE
SPACE	-	-				20	1	69		70	1	20				-	-	SPACE
SPACE	-	-				20	1	71		72	1	20				-	-	SPACE
SPACE	-	-				20	1	73		74	1	20				-	-	SPACE
SPACE	-	-				20	1	75		76	1	20				-	-	SPACE
SPACE	-	-				20	1	77		78	1	20				-	-	SPACE
SPACE	-	-				20	1	79		80	1	20				-	-	SPACE
SPACE	-	-				20	1	81		82	1	20				-	-	SPACE
SPACE	-	-				20	1	83		84	1	20				-	-	SPACE
			1800	3840	2540								3205	3015	1130			

WATTS: BUS A: 5005
BUS B: 6855
BUS C: 3670
TOTAL WATTAGE 15530

ELECTRICAL PANEL: EM1B1

(14,000 A.I.C.)

VOLTAGE: 120/208 V | MAIN: 100A | FEED: EXISTING

PHASE: 3Ø | WIRE: 4 | LOCATION: ELECTRICAL ROOM B | MOUNTING: EXISTING

DESCRIPTION	REC	LTG	VA A	VA B	VA C	BRKR AMP	BRKR P	CKT NO.	BUS CONN	CKT NO.	BRKR P	BRKR AMP	VA A	VA B	VA C	REC	LTG	DESCRIPTION
EMERG. LTG- QUAD A/B	-	-	1800			20	1	1		2	1	20	2060			-	-	EXISTING
EXISTING	-	-		2500		20	1	3		4	1	20		2040		-	-	EXISTING
EXISTING	-	-			500	20	1	5		6	1	20				-	-	SPARE
SPARE	-	-				20	1	7		8	1	20				-	-	SPACE
SPARE	-	-				20	1	9		10	1	20				-	-	SPACE
SPARE	-	-				20	1	11		12	1	20				-	-	SPACE
SPACE	-	-				20	1	13		14	1	20				-	-	SPACE
SPACE	-	-				20	1	15		16	1	20				-	-	SPACE
SPACE	-	-				20	1	17		18	1	20				-	-	SPACE
SPACE	-	-				20	1	19		20	1	20				-	-	SPACE
SPACE	-	-				20	1	21		22	1	20				-	-	SPACE
SPACE	-	-				20	1	23		24	1	20				-	-	SPACE
SPACE	-	-				20	1	25		26	1	20				-	-	SPACE
SPACE	-	-				20	1	27		28	1	20				-	-	SPACE
SPACE	-	-				20	1	29		30	1	20				-	-	SPACE
SPACE	-	-				20	1	31		32	1	20				-	-	SPACE
SPACE	-	-				20	1	33		34	1	20				-	-	SPACE
SPACE	-	-				20	1	35		36	1	20				-	-	SPACE
SPACE	-	-				20	1	37		38	1	20				-	-	SPACE
SPACE	-	-				20	1	39		40	1	20				-	-	SPACE
SPACE	-	-				20	1	41		42	1	20				-	-	SPACE
			1800	2500	500								2060	2040	0			

WATTS: BUS A: 3860
BUS B: 4540
BUS C: 500
TOTAL WATTAGE 8900

ELECTRICAL PANEL: EM1B2

(10,000 A.I.C.)

VOLTAGE: 120/208 V | MAIN: 100A | FEED: EXISTING

PHASE: 3Ø | WIRE: 4 | LOCATION: ELECTRICAL ROOM B | MOUNTING: EXISTING

DESCRIPTION	REC	LTG	VA A	VA B	VA C	BRKR AMP	BRKR P	CKT NO.	BUS CONN	CKT NO.	BRKR P	BRKR AMP	VA A	VA B	VA C	REC	LTG	DESCRIPTION
EXISTING	-	-	800			20	1	1		2	1	20	540			-	-	EXISTING
EXISTING	-	-		800		20	1	3		4	1	20		540		-	-	EXISTING
EXISTING	-	-			400	20	1	5		6	1	20			720	-	-	EXISTING
EXISTING	-	-	800			20	1	7		8	1	20	720			-	-	EXISTING
EXISTING	-	-		800		20	1	9		10	1	20		360		-	-	EXISTING
EXISTING	-	-			400	20	1	11		12	1	20			720	-	-	EXISTING
EXISTING	-	-	350			20	1	13		14	1	20	720			-	-	EXISTING
EXISTING	-	-		350		20	1	15		16	1	20		720		-	-	EXISTING
EXISTING	-	-			850	20	1	17		18	1	20			360	-	-	EXISTING
EXISTING	-	-	850			20	1	19		20	1	20	360			-	-	EXISTING
EXISTING	-	-		400		20	1	21		22	1	20		360		-	-	EXISTING
EXISTING	-	-			200	20	1	23		24	1	20			360	-	-	EXISTING
EXISTING	-	-	200			20	1	25		26	1	20	360			-	-	EXISTING
EXISTING	-	-		200		20	1	27		28	1	20		360		-	-	EXISTING
EXISTING	-	-			700	20	1	29		30	1	20				-	-	SPARE
SPACE	-	-				20	1	31		32	1	20				-	-	SPARE
SPACE	-	-				20	1	33		34	1	20				-	-	SPARE
SPACE	-	-				20	1	35		36	1	20				-	-	SPARE
SPACE	-	-				20	1	37		38	1	20				-	-	SPACE
SPACE	-	-				20	1	39		40	1	20				-	-	SPACE
SPACE	-	-				20	1	41		42	1	20				-	-	SPACE
			3000	2550	2550								2700	2340	2160			

WATTS: BUS A: 5700
BUS B: 4890
BUS C: 4710
TOTAL WATTAGE 15300

ELECTRICAL PANEL: EM1D1

(14,000 A.I.C.)

VOLTAGE: 120/208 V | MAIN: 100A | FEED: EXISTING

PHASE: 3Ø | WIRE: 4 | LOCATION: ELECTRICAL ROOM D | MOUNTING: EXISTING

DESCRIPTION	REC	LTG	VA A	VA B	VA C	BRKR AMP	BRKR P	CKT NO.	BUS CONN	CKT NO.	BRKR P	BRKR AMP	VA A	VA B	VA C	REC	LTG	DESCRIPTION
EMERG. LTG - QUAD C/D	-	-	1733			20	1	1		2	1	20	3140			-	-	EXISTING
EXISTING	-	-		2950		20	1	3		4	1	20		1740		-	-	EXISTING
EXISTING	-	-				20	1	5		6	1	20				-	-	SPARE
SPACE	-	-				20	1	7		8	1	20				-	-	SPARE
SPACE	-	-				20	1	9		10	1	20				-	-	SPARE
SPACE	-	-				20	1	11		12	1	20				-	-	SPARE
SPACE	-	-				20	1	13		14	1	20				-	-	SPACE
SPACE	-	-				20	1	15		16	1	20				-	-	SPACE
SPACE	-	-				20	1	17		18	1	20				-	-	SPACE
SPACE	-	-				20	1	19		20	1	20				-	-	SPACE
SPACE	-	-				20	1	21		22	1	20				-	-	SPACE
SPACE	-	-				20	1	23		24	1	20				-	-	SPACE
SPACE	-	-				20	1	25		26	1	20				-	-	SPACE
SPACE	-	-				20	1	27		28	1	20				-	-	SPACE
SPACE	-	-				20	1	29		30	1	20				-	-	SPACE
SPACE	-	-				20	1	31		32	1	20				-	-	SPACE
SPACE	-	-				20	1	33		34	1	20				-	-	SPACE
SPACE	-	-				20	1	35		36	1	20				-	-	SPACE
SPACE	-	-				20	1	37		38	1	20				-	-	SPACE
SPACE	-	-				20	1	39		40	1	20				-	-	SPACE
SPACE	-	-				20	1	41		42	1	20				-	-	SPACE
			1733	2950	0								3140	1740	0			

WATTS: BUS A: 4873
BUS B: 4690
BUS C: 0
TOTAL WATTAGE 9563

1 POWER PANELBOARD LAYOUTS

SCALE: NONE

NEW ELECTRICAL PANEL: CAFÉ

(10,000 A.I.C.)

VOLTAGE: 120/208 V | MAIN: 200 A CB | FEED:SEE DRAWING

PHASE: 3Ø | WIRE: 4 | LOCATION: ELECTRICAL ROOM | MOUNTING: FLUSH

DESCRIPTION	REC	LTG	VA A	VA B	VA C	BRKR AMP	BRKR P	CKT NO.	BUS CONN	CKT NO.	BRKR P	BRKR AMP	VA A	VA B	VA C	REC	LTG	DESCRIPTION
DISPLAY CASE #1*	-	-	2880			30	1	1		2	1	15	1000			-	-	UC FREEZER #12*
POS #15	-	-		500		20	1	3		4	2	60		4000		-	-	CUSTARD MACHINE #13*
GENERAL USE RECEPT.	5	-			360	20	1	5		6					4000	-	-	
ESPRESSO MACHINE #8*	-	-	2500			30	2	7		8	1	20	900			5	-	GENERAL USE RECEPT.
	-	-		2500				9		10	2	35		2000		-	-	COFFEE BREWER #3*
UC FRIDGE #12*	-	-			1000	20	1	11		12					2000	-	-	
ESPRESSO GRINDER #7*	-	-	500			20	1	13		14	1	15	500			-	-	COFFEE GRINDER #4*
ESPRESSO GRINDER #6*	-	-		500		15	2	15		16	1	20		1500		-	-	WATER TOWER #2*
	-	-			500			17		18	1	15			1020	-	-	UC REFRIGERATOR #5*
OVEN #15*	-	-	5500			70	2	19		20	1	20	1500			-	-	BLENDER #10*
	-	-		5500				21		22	1	20		1500		-	-	BLENDER #10*
REACH-IN FRIDGE #16*	-	-			1500	20	1	23		24	1	15			1284	-	-	ICE MAKER #9*
GENERAL USE RECEPT.	4	-	720			20	1	25		26	1	20	500			-	#	CAFÉ AREA LIGHTING
SPARE	-	-		-		20	1	27		28	1	20		-		-	-	SPARE
SPARE	-	-			-	20	1	29		30	1	20			-	-	-	SPARE
SPARE	-	-				20	1	31		32	1	20	-			-	-	SPARE
BLANK	-	-		-		-	-	33		34	-	-		-		-	-	BLANK
BLANK	-	-			-	-	-	35		36	-	-			-	-	-	BLANK
BLANK	-	-	-			-	-	37		38	-	-	-			-	-	BLANK
BLANK	-	-		-		-	-	39		40	-	-		-		-	-	BLANK
BLANK	-	-			-	-	-	41		42	-	-			-	-	-	BLANK
			12100	9000	3360								4400	9000	8304			

WATTS: BUS A: 16500
BUS B: 18000
BUS C: 11664
TOTAL WATTAGE 46164

*DISCOUNT KITCHEN EQUIPMENT TO 65% CONNECTED LOAD
41264 VA X 0.65 = 26822
DISCOUNTED WATTAGE 29322

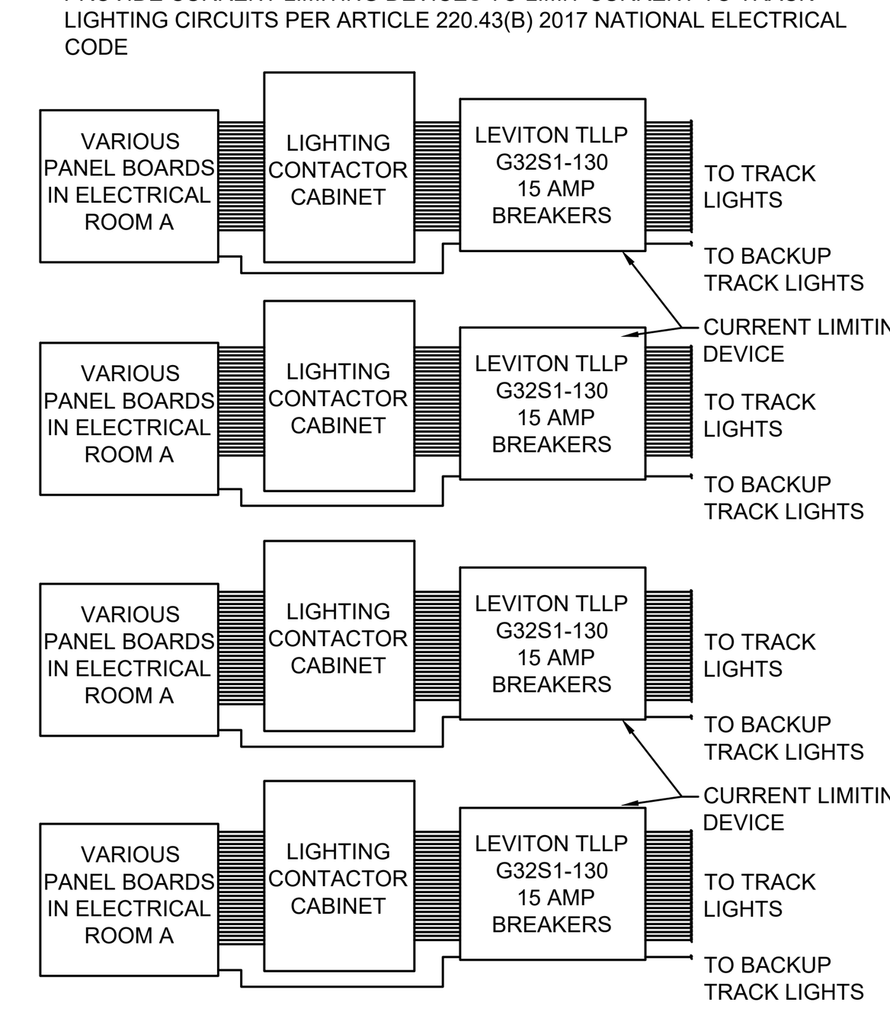
LIGHTING SCHEDULE

FIXTURE		MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMP TYPE	LAMP WATTS	LAMP LUMENS	LAMP COLOR (K)	MOUNTING WALL	MOUNTING RECESSED	MOUNTING SURFACE	MOUNTING PENDANT	HEIGHT	REMARKS
	LT-1	CON-TECH	CTL2838N	LINEAR TRACK LIGHT HEADS	LED	16	2000	3000					11'-0"	INSTALL WITH SINGLE CIRCUIT LINE VOLTAGE TRACK WITH GROUND AVAILABLE IN 4', 6', AND 8' SECTIONS 1 HEAD PER 2' OF TRACK
	LT-2	CON-TECH	CTL2838N	LINEAR TRACK LIGHT HEADS	LED	16	2000	3000					11'-0"	INSTALL WITH 120V "HTEK GLOBAL TRC" WITH GROUND CURVED TRACK FROM ZUMTOBEL AVAILABLE IN 4' AND 8' SECTIONS 1 HEAD PER 2' OF TRACK
	LT-3a	LITHONIA	LDN6 35/15 L06 WR LD MVOLT	RECESSED DOWNLIGHT	LED	17.5	1500	3500		X			10'-0"	INSTALL IN THE FOOD PREP AREA OF THE CAFE
	LT-3	LITHONIA	LDN6 35/10 L06 WR LD MVOLT	RECESSED DOWNLIGHT	LED	10.4	1000	3500		X			VARIES	MOUNT AT CEILING HEIGHT WHERE THE LIGHT FIXTURE IS INSTALLED
	LT-4	LITHONIA	LDN6 35/10 LW6 WR LD MVOLT	RECESSED WALL WASH DOWNLIGHT	LED	10.4	1000	3500		X			11'-0"	
	LT-5	ACCENT PENDANT CHOSEN BY OWNER FOR SILO			LED	50		3000					7'-6"	
	LT-6	BARN LIGHT ELECTRIC CO.	BLE-PMD-DCS-CGG-LED	GAS STATION STREET LAMP	LED	16.8	1600	3500					6'-6"	
	LT-7	JUNO	DPEND MP	SMALL CAFÉ PENDANT	LED	6	389	3000					6'-6"	
	LT-8	EXISTING WAREHOUSE LINEAR LIGHTING			FL	32	2900	3000					14'-6"	EXISTING LINEAR LIGHT FIXTURES IN VARIOUS LENGTHS, 3', 4', 6', AMD 8'.
	LT-9	LITHONIA	2ESL2 20L SLD LP830	2' X 2' TROFFER	LED	19	2200	3000		X			10'-0"	REPLACES LIGHT FIXTURES IN THE OLD OFFICE AREA THAT IS BEING RENOVATED. USE EXISTING LIGHTING CIRCUITS IN THE AREA FOR POWER (277 VOLT).
	Y	LITHONIA	LQM S W 3 R 120/277 M6	EXIT SIGN, ROUNDED EDGES	RED LED	0.69			X		X		7'-6"	REPLACE EXISTING FIXTURES AS NEEDED.

3 LIGHTING SCHEDULE

SCALE: NONE

PROVIDE CURRENT LIMITING DEVICES TO LIMIT CURRENT TO TRACK LIGHTING CIRCUITS PER ARTICLE 220.43(B) 2017 NATIONAL ELECTRICAL CODE



2 TRACK LIGHTING RISER

SCALE: NONE

HUGHES CONSULTING ENGINEERING, PA
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steven@hce-pa.com

FOR REVIEW ONLY

FURNITURE MALL OF MISSOURI

900 NW BLUE PARKWAY
LEE'S SUMMIT, MO

No.	Description	Date
1	REVIEW 1	2-11-2022
2	PERMIT PRICING	2-23-2022

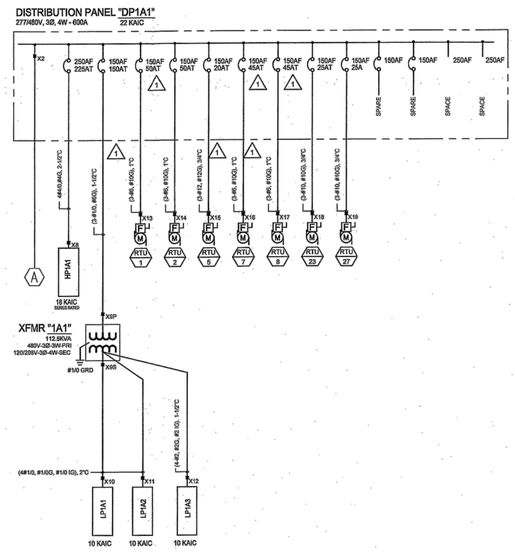
Sheet Index

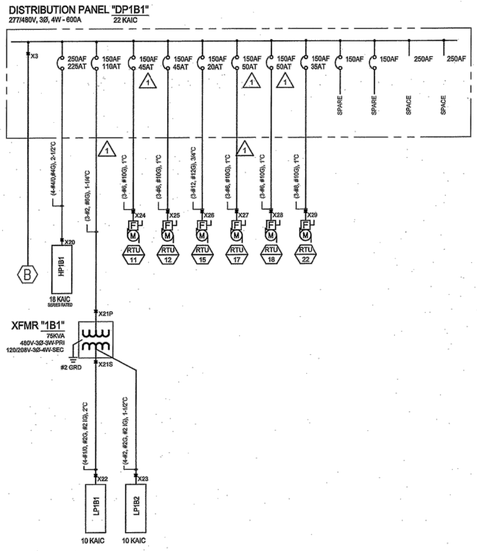
Panelboard Layouts
Lighting Fixture Schedule
Lighting Riser

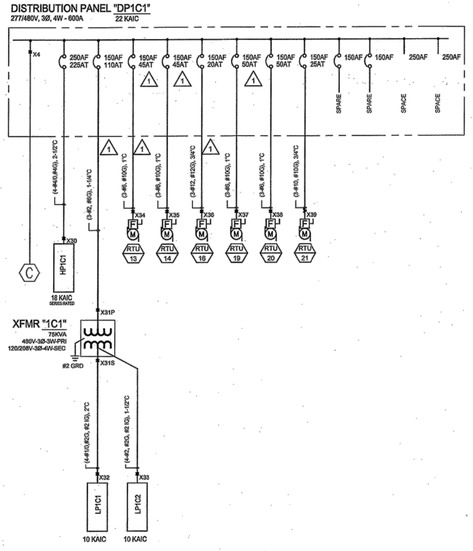
Date 2-23-2022
Drawn by ---
Checked by SCH

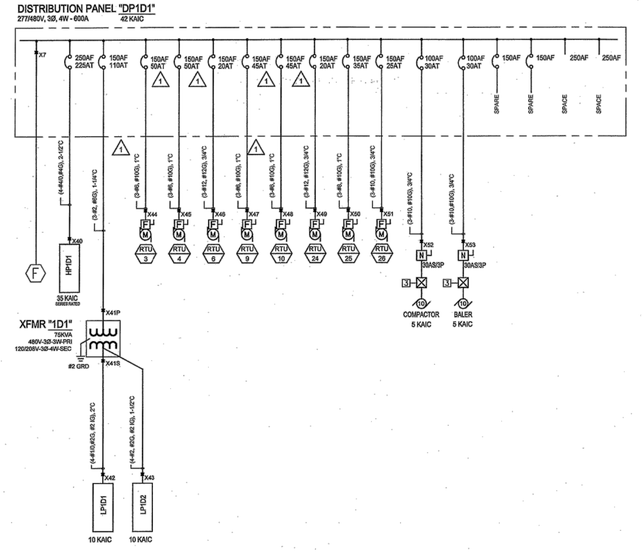
E3.0

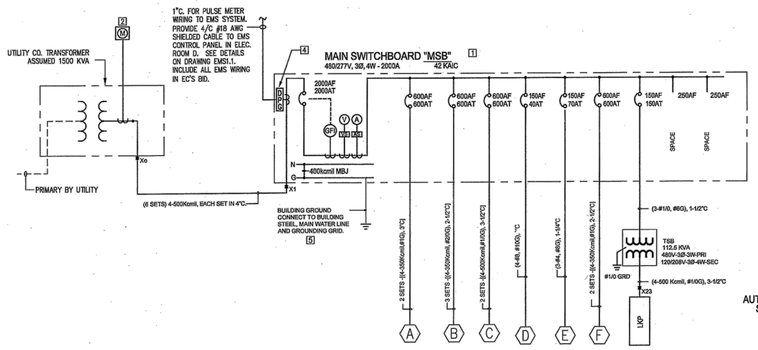
Scale AS NOTED

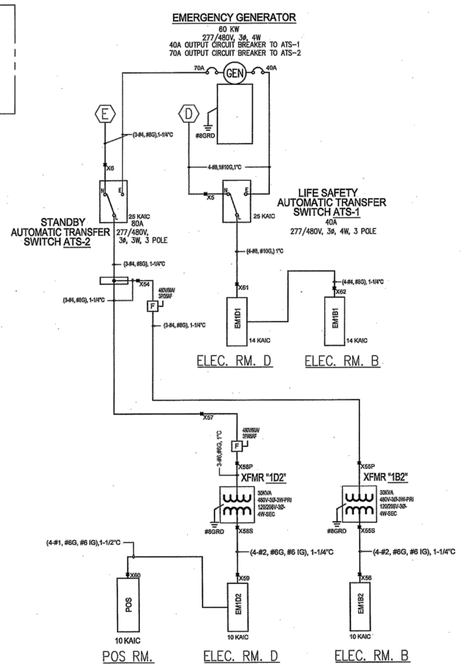












GENERAL NOTES:

1. ALL DISCONNECTS SHOWN SHALL BE PROVIDED BY THE EC UNLESS OTHERWISE NOTED. SEE MECHANICAL SCHEDULE DRAWING FOR DISCONNECTS FURNISHED BY OTHERS.
2. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250-122. SEE SPECIFICATIONS.
3. MSB, MODULAR DISTRIBUTION PANELS, TRANSFORMERS AND BRANCH CIRCUIT PANELS ARE FURNISHED BY MACY'S, INSTALLED BY EC.
4. EC SHALL REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT FURNISHED BY EC.
5. "POS" PANEL IS ISOLATED GROUND PANEL FOR POS ROOM OUTLETS ONLY.
6. EC SHALL INCLUDE ALL EMS WIRING FOR A COMPLETE AND OPERATIONAL SYSTEM IN THEIR BID. SEE EMS DRAWINGS FOR ADDITIONAL INFORMATION AND DETAILS.
7. EC SHALL USE COPPER CONDUCTORS AS INDICATED AS A BASE BID. AS AN ALTERNATE, PROVIDE ALUMINUM CONDUCTORS, PER THE FEEDER SCHEDULE THIS SHEET, FOR FEEDERS 100 AMPS AND GREATER. EC SHALL COORDINATE LUG SIZES AND MATERIALS TO ACCEPT THE CONDUCTORS INSTALLED.

KEYED NOTES:

[1] MSB IS FURNISHED BY MACY'S AND INSTALLED BY EC.

[2] EC SHALL PROVIDE THE UTILITY TRANSFORMER PAD, GROUND RODS (ONE PER WINDOW), SECONDARY CONDUIT, SECONDARY CONDUCTORS, AND TERMINATIONS AT MSB. UTILITY SHALL PROVIDE PRIMARY CONDUCTORS, TRANSFORMER, METER ENCLOSURE MOUNTED ON TRANSFORMER, CT'S IN TRANSFORMER, TERMINATIONS AT TRANSFORMER, METER AND METER WIRING. DEVELOPER SHALL PROVIDE THE PRIMARY CONDUITS. INSTALLATION SHALL BE IN CONFORMANCE WITH ALL SERVING UTILITY AND AHJ REQUIREMENTS. UTILITY CONTACT IS DOUG DAVIN (816-251-2647) AT KCP&L (FORMERLY AQUILA).

[3] EQUIPMENT CONTROLLER FURNISHED AND INSTALLED BY OTHERS. EC SHALL MAKE FINAL ELECTRICAL CONNECTIONS

[4] EC SHALL MAKE FINAL CONNECTIONS TO PULSE OUTPUT METER FURNISHED WITH MSB. EC SHALL COORDINATE INSTALLATION AND ENSURE PROPER OPERATION.

[5] PROVIDE ELECTRICAL GROUNDING SYSTEM PER DETAIL 2/E5.01.

FEEDER SCHEDULE

OCPD Setting	Copper Conductors	Conduit	Aluminum Conductors	Conduit	Load
2000	6 sets of (4-600 kcmil)	4"	6 sets of (4-600 kcmil)	4"	MSB
MBJ	400 Kcmil		600 KCMIL		MSB GND
600	2 sets of (4-350 kcmil, #1G)	2-1/2"	2 sets of (4-500 kcmil, #2/0G)	3"	DP1A1
600	3 sets of (4-350 kcmil, #2/0G)	2-1/2"	3 sets of (4-500 kcmil, #4/0G)	3"	DP1B1
600	2 sets of (4-500 kcmil, #1/0G)	3-1/2"	3 sets of (4-350 kcmil, #3/0G)	3"	DP1C1
600	2 sets of (4-350 kcmil, #1G)	2-1/2"	2 sets of (4-500 kcmil, #2/0G)	3"	DP1D1
400	4-500 kcmil, #1/0G	3-1/2"	2 sets of (4-250 kcmil, #3/0G)	2-1/2"	LXP
225	4#4/0, #4G	2-1/2"	4-300 kcmil, #2G	2-1/2"	HP1A1
225	4#4/0, #4G	2-1/2"	4-300 kcmil, #2G	2-1/2"	HP1B1
225	4#4/0, #4G	2-1/2"	4-300 kcmil, #2G	2-1/2"	HP1C1
225	4#4/0, #4G	2-1/2"	4-300 kcmil, #2G	2-1/2"	HP1D1
150	3#1/0, #6G	1-1/2"	3#3/0, #4G	2"	XFMR 1A1
GEC	#1/0G		#3/0G		1A1 GND
150	3#1/0, #6G	1-1/2"	3#3/0, #4G	2"	XFMR TSB
GEC	#1/0G		#3/0G		TSB GND
150	4#1/0, #1/0G, #1/0 IG	2"	4#3/0, #3/0 IG, #3/0 IG	2-1/2"	LP1A1
150	4#1/0, #1/0G, #1/0 IG	2"	4#3/0, #3/0 IG, #3/0 IG	2-1/2"	LP1A2
150	4#1/0, #2G, #2 IG	2"	4#3/0, #1/0G, #1/0 IG	2-1/2"	LP1B1
150	4#1/0, #2G, #2 IG	2"	4#3/0, #1/0G, #1/0 IG	2-1/2"	LP1C1
150	4#1/0, #2G, #2 IG	2"	4#3/0, #1/0G, #1/0 IG	2-1/2"	LP1D1
110	3#2, #6G	1-1/4"	3#1/0, #4G	1-1/2"	XFMR 1B1
110	3#2, #6G	1-1/4"	3#1/0, #4G	1-1/2"	XFMR 1C1
110	3#2, #6G	1-1/4"	3#1/0, #4G	1-1/2"	XFMR 1D1
GEC	#2G		#1/0		1B1 GND
GEC	#2G		#1/0		1C1 GND
GEC	#2G		#1/0		1D1 GND
100	4#2, #2G, #2 IG	1-1/2"	4#1/0, #1/0G, #1/0 IG	2"	LP1A3
100	4#2, #2G, #2 IG	1-1/2"	4#1/0, #1/0G, #1/0 IG	2"	LP1B2
100	4#2, #2G, #2 IG	1-1/2"	4#1/0, #1/0G, #1/0 IG	2"	LP1C2
100	4#2, #2G, #2 IG	1-1/2"	4#1/0, #1/0G, #1/0 IG	2"	LP1D2

LOAD CALCULATION SUMMARY

SUMMIT FAIR MALL - LEE'S SUMMIT, MO. JOB NO. 08130.00

LOAD TYPE	CONNECTED LOAD (KVA)	NEC FACTOR	NEC DEMAND LOAD (KVA)
LIGHTING:			
INTERIOR	209.95	1.25	262.44
EXTERIOR	0.00	1.25	0.00
RECEPTACLES			
1ST 10 KVA	10.00	1.00	10.00
REMAINDER	168.65	0.50	84.33
MECHANICAL			
HVAC	752.95	1.00	752.95
25% OF LARGEST MOTOR	34.92	0.25	8.73
PLUMBING	26.50	1.00	26.50
TOTAL	1168.96 KVA		1144.95 KVA
AT 480/3PH/4W	1405.51 AMPS		1377.79 AMPS

SIZE SERVICE AT 2000 AMPS
6 SETS OF 4-600Kcmil

1 EXISTING BUILDING ONE-LINE DIAGRAM (FOR REFERENCE ONLY, SOURCE: MACY'S PROGRESS SET 5-23-2008 DRAWING E4.01, DURRANT ENGINEERING)
SCALE: NONE

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FOR REVIEW ONLY

FURNITURE MALL OF MISSOURI
900 NW BLUE PARKWAY
LEE'S SUMMIT, MO

No.	Description	Date
1	REVIEW 1	2-11-2022
2	PERMIT PRICING	2-23-2022

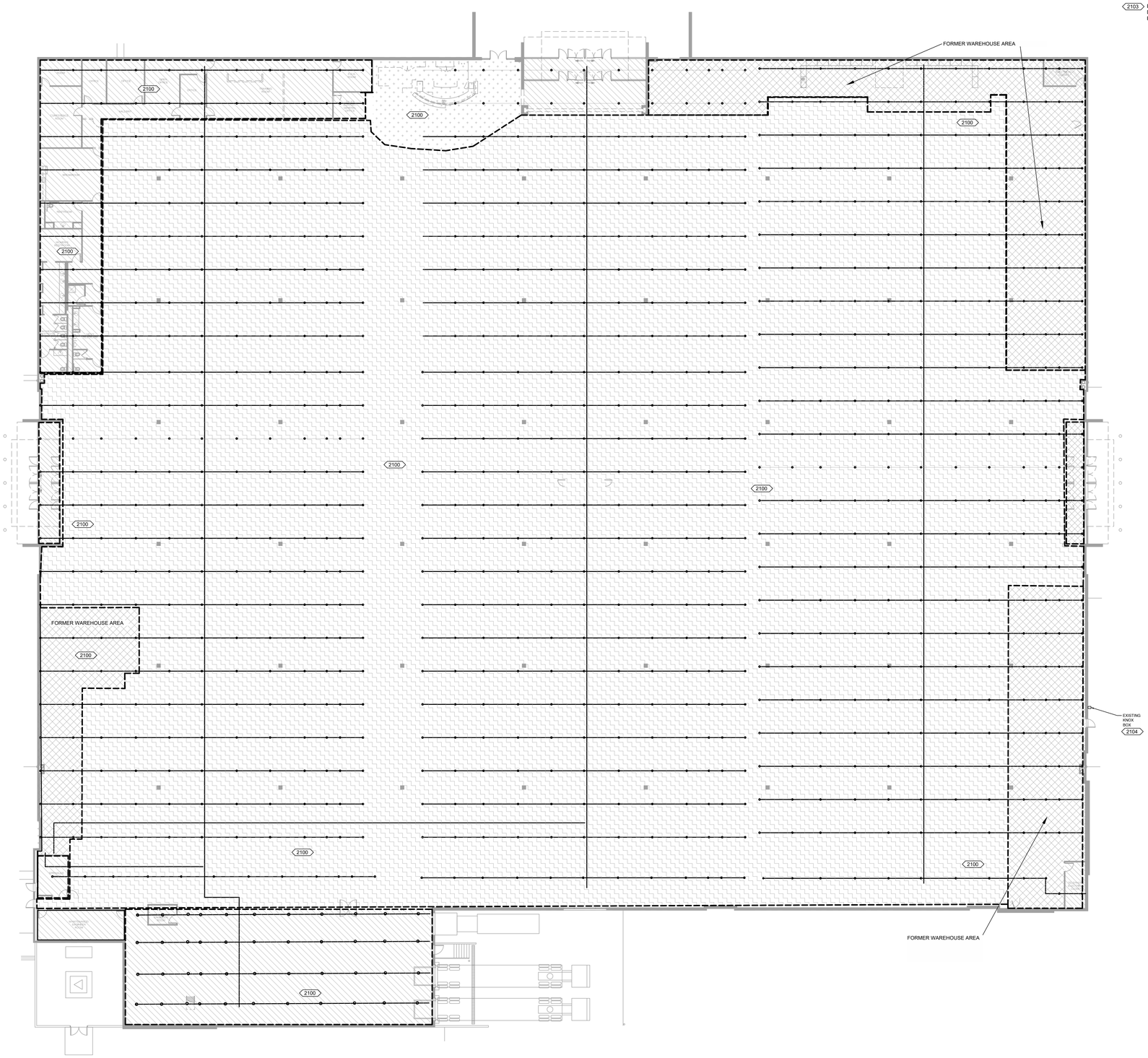
Sheet Index

Panelboard Layouts
Lighting Fixture Schedule
Lighting Riser

Date	2-23-2022
Drawn by	---
Checked by	SCH

E4.0

Scale AS NOTED



1 FIRE SPRINKLER PLAN
SCALE: 1/16" = 1'-0"

INSTALLATION NOTES:

2100 FIELD-VERIFY EXISTING CONDITIONS AND LAYOUT. PIPING AND SPRINKLER HEAD LOCATIONS SHOWN ARE GENERALLY FROM DRAWINGS FP-1 THROUGH FP-5, CODE CONSULTANTS, INC., MACY'S SOUTH DATED 08-08-08. SEE AREA DESIGNATION LEGEND FOR PROPOSED MODIFICATIONS.

2101 EXISTING FIRE SERVICE RISERS SERVING TWO ZONES.

2102 FIRE EXTINGUISHERS ARE EXITING AND REMAIN. CONTRACTOR SHALL FIELD VERIFY CONDITION AND SERVICE OR REPLACE AS NECESSARY. ADDITIONAL FIRE EXTINGUISHERS SHALL BE PROVIDED AS REQUIRED BY THE FIRE DEPARTMENT AND OWNER.

2103 EXISTING KNOX BOX LOCATION, CHANGE LOCK PER FIRE DEPARTMENT REQUIREMENTS. FINAL LOCATION SHALL BE DETERMINED BY FIRE DEPARTMENT.

AREA DESIGNATIONS:

- AREA TO REMAIN AS-IS, NO CHANGES TO CEILINGS OR WALLS PROPOSED
- CEILING AND WALLS TO BE REMOVED. ORIENT SPRINKLER HEADS UP.
- NEW WALLS AND CEILINGS TO BE INSTALLED.
- WALLS TO BE REMOVED.

GENERAL NOTES: (WET-PIPE FIRE SUPPRESSION SPRINKLERS)

1. INCLUDE ALL PLANT FACILITIES, LABOR, MATERIAL, EQUIPMENT AND SERVICE NECESSARY FOR THE DESIGN AND RECONFIGURATION OF THE EXISTING AUTOMATIC SPRINKLER SYSTEM AND PIPING.

2. SYSTEM RECONFIGURATION SHALL BE DESIGNED AND COMPLY WITH THE LATEST VERSION OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), NFPA 13 INSTALLATION OF SPRINKLER SYSTEMS, AND NFPA 70 NATIONAL ELECTRICAL CODE.

3. SUBMIT DRAWINGS SIGNED BY A REGISTERED FIRE PROTECTION ENGINEER OR SIGNED BY A NICET IP CERTIFIED FIRE SUPPRESSION DESIGNER IF ALLOWED BY LOCAL FIRE CODE OFFICIAL. SUBMIT HYDRAULIC CALCULATIONS TO SUBSTANTIATE COMPLIANCE WITH HYDRAULIC DESIGN REQUIREMENTS. SUBMIT NAME OF SOFTWARE PROGRAM IF USED AND CERTIFICATES.

4. DESIGN SHALL BE IN ACCORDANCE WITH HYDRAULIC CALCULATIONS FOR UNIFORM DISTRIBUTION OF WATER OVER THE DESIGN AREA. LOCATE SPRINKLER HEADS IN A CONSISTENT PATTERN.

5. DEVICES AND EQUIPMENT FOR FIRE PROTECTION SERVICE SHALL BE UL FPED LISTED.

6. IN GENERAL, WORK SHALL INCLUDE BUT NOT BE LIMITED TO:
   A. COMPLETE RECONFIGURED OVERHEAD AUTOMATIC SPRINKLER SYSTEM.

7. PROVIDE FITTINGS FOR CHANGES IN DIRECTION OF PIPING AND FOR CONNECTIONS. MAKE CHANGES IN PIPING SIZES THROUGH TAPERED REDUCING PIPE FITTINGS; BUSHINGS WILL NOT BE PERMITTED.

8. STEEL PIPING SHALL BE SCHEDULE 40. FITTINGS INTO WHICH SPRINKLER HEADS, SPRINKLER HEAD RISER NIPPLES, OR DROP NIPPLES ARE THREADED SHALL BE THREADED TYPE. FITTINGS SHALL BE UL FPED LISTED.

9. PROVIDE NOMINAL 0.50 INCH ORIFICE SPRINKLER HEADS. O-RINGS WILL NOT BE PERMITTED IN SPRINKLER HEADS. RELEASE ELEMENT OF EACH HEAD SHALL BE OF THE STANDARD TEMPERATURE RATING OR HIGHER AS SUITABLE FOR THE SPECIFIC APPLICATION.

10. PROVIDE NEW PIPE HANGERS AND SUPPORTS WHERE NECESSARY IN ACCORDANCE WITH NFPA 13.

11. INSTALL NEW PIPING STRAIGHT AND TRUE TO BEAR EVENLY ON HANGERS AND SUPPORTS. ALL NEW PIPING SHALL BE REAMED TO REMOVE ALL BURRS, AND PIPE SECTIONS SHALL BE CLEANED INSIDE TO REMOVE ALL CHIPS AND FOREIGN MATERIALS PRIOR TO MAKING JOINTS.

12. KEEP THE INTERIOR AND ENDS OF NEW PIPING AND EXISTING PIPING AFFECTED BY CONTRACTOR'S OPERATIONS THOROUGHLY CLEANED OF WATER AND FOREIGN MATTER. KEEP PIPING SYSTEMS CLEAN DURING INSTALLATION BY MEANS OF PLUGS OR OTHER APPROVED METHODS. WHEN WORK IS NOT IN PROGRESS, SECURELY CLOSE OPEN ENDS OF PIPING TO PREVENT ENTRY OF WATER AND FOREIGN MATTER. INSPECT PIPING BEFORE PLACING INTO POSITION.

13. PROVIDE TEFLON PIPE THREAD PASTE ON MALE THREADS.

14. ALL NEW DRAIN VALVES AND TEST VALVES IF NECESSARY SHALL BE REPLACEABLE RUBBER OR COMPOSITION DISCS.

15. ALL PENDANT SPRINKLERS LOCATED WITHIN SEVEN (7) FEET OF THE FLOOR SHALL BE PROVIDED WITH SPRINKLER GUARDS.

16. EXTRA SPRINKLERS IN QUANTITIES REQUIRED BY NFPA 13 SHALL BE PROVIDED AND SHALL BE PLACED WITHIN THE EXISTING CABINET WHICH IS LOCATED ADJACENT TO THE MAIN RISER. THE CABINET SHALL BE PROVIDED WITH A SPRINKLER WRENCH, OR SPECIAL WRENCH WHERE APPLICABLE.

17. NEW INSPECTOR'S TEST VALVES IF NECESSARY SHALL BE INSTALLED DOWNSTREAM OF WATER-FLOW DEVICE. INSPECTOR'S TEST OUTLETS SHALL BE PIPED TO DRAIN OUTSIDE OF THE BUILDING OR INTO THE SEWER DRAIN. VALVES SHALL BE WITHIN SIX (6) FEET OF THE FLOOR OR FINISHED GRADE. WHEN THE DISCHARGE OUTLET CANNOT BE SEEN FROM THE VALVE OR WHEN INSPECTOR'S TEST CONNECTIONS ARE PIPED INTO THE SEWER SYSTEM, A SIGHT GLASS SHALL BE PROVIDED. DIRECT INTERCONNECTIONS SHALL NOT BE MADE BETWEEN SEWERS AND SPRINKLER DRAINS.

18. NEW PRESSURE GAUGES SHALL BE PROVIDED AT EACH SIDE OF THE MAIN CHECK VALVE AND AT THE CONTROL VALVE.

19. PROVIDE PIPE MARKERS ON NEW EXPOSED PIPING WITH THE WORDS "AUTO SPRINKLER" OR "FIRE SPRINKLER" IN A MINIMUM 2 INCH HIGH LETTERING SO AS TO BE EASILY READ FROM THE GROUND OR FLOOR LEVEL. MARKERS SHALL BE SPACED AT A MAXIMUM OF 25 FEET BETWEEN MARKERS.

20. ALL COMPONENTS OF THE SYSTEM MUST BE HYDROSTATICALLY TESTED AT 200 PSI FOR A MINIMUM OF TWO (2) HOURS. ALL PIPING MUST BE EXPOSED FOR THE HYDROSTATIC TEST. PORTIONS OF THE SYSTEMS MAY BE TESTED SEPARATELY, BUT CARE MUST BE TAKEN TO INSURE THAT ALL PIPING, CONNECTIONS THERETO, AND DEVICES ARE TESTED.

21. THE CONTRACTOR SHALL CERTIFY THAT THE WORK IS INSTALLED IN ACCORDANCE WITH THE PROJECT REQUIREMENTS AND THE REQUIREMENTS OF NFPA 13 AND NFPA 24.

LEGEND: 1/8" scale (THIS SHEET ONLY)

- MAIN FIRE ALARM CONTROL PANEL
- AUDIO/VISUAL FIRE ALARM DEVICE WITH, FOR EXAMPLE, 50dB AND 15 CD OUTPUT, MOUNT AT 6'-8" A.F.F.
- AUDIO FIRE ALARM DEVICE WITH, FOR EXAMPLE, 50 dB OUTPUT, MOUNT AT 6'-8" A.F.F.
- VISUAL ALARM DEVICE WITH, FOR EXAMPLE, 15 CD OUTPUT, MOUNT AT 6'-8" A.F.F.
- PHOTOELECTRIC TYPE SMOKE DETECTOR
- IONIZATION TYPE SMOKE DETECTOR
- HEAT TYPE DETECTOR
- MANUAL FIRE ALARM PULL STATION, MOUNT AT 48" A.F.F.
- PHOTOELECTRIC DUCT TYPE SMOKE DETECTOR
- SPRINKLER SYSTEM ALARM SWITCH
- SPRINKLER SYSTEM FLOW SWITCH
- SPRINKLER VALVE TAMPER SWITCH
- AUXILIARY FAN SHUT DOWN RELAY
- MAGNETIC HOLD OPENS TIED INTO FIRE ALARM SYSTEM
- FIRE EXTINGUISHER
- INSPECTOR'S TEST CONNECTION
- FIRE ANNUNCIATOR PANEL
- HYDRANT
- FIRE DEPARTMENT CONNECTION
- SPRINKLER HEAD - UPRIGHT
- SPRINKLER HEAD - PENDANT
- SPRINKLER HEAD - CONCEALED
- SPRINKLER HEAD - SIDEWALL
- SPRINKLER ZONE CONTROL
- SPRINKLER SHUT OFF TOOL
- SUPPRESSION SYSTEM TANKS

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No.	Description	Date
1	REVIEW 1	2-11-2022
2	PERMIT PRICING	2-23-2022

Sheet Index

Fire Sprinkler Layout
Scope Work

Date	2-23-2022
Drawn by	---
Checked by	SCH

F1.0

Scale AS NOTED