NOTES:
1. ALL SIGNAGE AS SHOWN FURNISHED AND INSTALLED BY BOB'S DISCOUNT FURNITURE.
2. REFER TO SIGNAGE COMPANY DRAWINGS FOR ALL SIGNAGE INFORMATION.
3. SEPARATE PERMIT, INCLUDING REVIEW, IS REQUIRED FOR SIGNAGE INSTALLATION. SIGN VENDOR RESPONSIBLE FOR ALL MUNICIPAL REVIEWS, APPROVALS, PERMITS, AND FEES.



ELEVATION - FOR REFERENCE ONLY

NOT TO SCALE

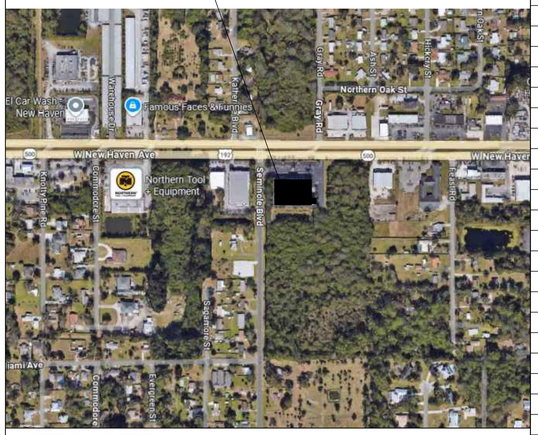
BOB'S Discount Furniture®

INTERIOR BUILD-OUT OF EXISTING SPACE

3401 W NEW HAVEN AVE.
MELBOURNE, FL 32904

NORTH

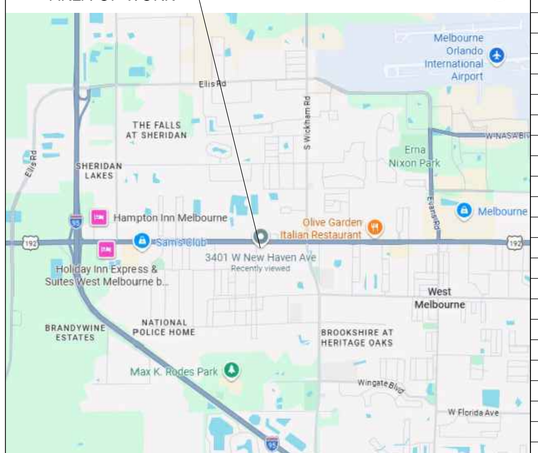
PROJECT SITE - AREA OF WORK



AERIAL SITE

NOT TO SCALE

PROJECT SITE - AREA OF WORK



VICINITY MAP

NOT TO SCALE

1. FOR LIFE SAFETY PLAN, PROJECT SCOPE, EGRESS & PLUMBING CALCULATIONS SEE SHEET GN-1.
2. FOR PROPOSED EXIT SIGNAGE LOCATIONS SEE SHEET E8.1.

PLAN EXAMINER NOTES:

DEFERRED SUBMITTALS

THE FOLLOWING ITEMS SHALL BE SUBMITTED SEPARATELY FROM THESE BUILDING PERMIT SUBMISSION PLANS:

BUILDING SIGNAGE

MODIFICATIONS TO EXISTING FIRE SPRINKLER SYSTEM & NEW FIRE ALARM SYSTEM.

OWNER / TENANT
BOB'S DISCOUNT FURNITURE:
434 TOLLAND TURNPIKE
MANCHESTER, CT 06042
ATTN: CHUCK LEE
Charles.lee@mybobs.com
SENIOR CONSTRUCTION MANAGER

BOB'S DISCOUNT FURNITURE:
CONSTRUCTION MANAGER
ATTN: RUTH HATCHER
EMAIL: ruth.chape-hatcher@mybobs.com

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REGISTERED DESIGN PROFESSIONAL:
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FL LICENSE #AR97057
CONTACT:
KYLE HAMMER (kyleh@ctarch.com)

STRUCTURAL ENGINEER
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825 S SCOVILLE AVE.
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MASON, NH 03048
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WESTBOROUGH, MA 01581
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CONTACT:
KYLE HAMMER (kyleh@ctarch.com)

GENERAL CONTRACTOR
TO BE DETERMINED PROJECT
CURRENTLY OUT TO BID

LIST OF DRAWINGS

	ARCHITECTURAL
CS-1	COVER SHEET
GN-1	BUILDING CODE / OCCUPANCY & LIFE SAFETY PLAN
GN-2	ACCESSIBILITY DETAILS
D1.0A	FIRST FLOOR DEMOLITION PLAN
D1.0B	SECOND FLOOR DEMOLITION PLAN
A1.0A	FIRST FLOOR CONSTRUCTION PLAN
A1.0B	SECOND FLOOR CONSTRUCTION PLAN
A1.1A	FIRST FLOOR FINISH PLAN
A1.1B	SECOND FLOOR FINISH PLAN
A1.2A	FIRST FLOOR PAINT FINISH PLAN
A1.2B	SECOND FLOOR PAINT FINISH PLAN
A2.0A	FIRST FLOOR REFLECTED CEILING PLAN
A2.0B	SECOND FLOOR REFLECTED CEILING PLAN
A3.0	ROOF PLAN
A4.0	ELEVATIONS
A4.1	ELEVATIONS
A5.0	BUILDING SECTIONS
A6.0	INTERIOR ELEVATIONS & DETAILS
A7.0	ENLARGED PLANS - OFFICES, SALES, BREAK ROOM, CAFE, RESTROOMS, & RESTROOM ACC.
A7.1	ENLARGED PLANS & DETAILS - SLEEP CENTER & VESTIBULE
A8.0	FINISH SCHEDULES & NOTES
A8.1	DOOR SCHEDULES & NOTES
A8.2	PARTITION SCHEDULE AND DETAILS
A8.3	STANDARD DETAILS
	SPECIFICATIONS
OS-1	OUTLINE SPECIFICATIONS
OS-2	OUTLINE SPECIFICATIONS
	STRUCTURAL
S0.1	STRUCTURAL NOTES
S1.0	FRAMING PLAN
S1.1	FRAMING DETAILS
	MECHANICAL
M1.0	MECHANICAL SYMBOLS AND NOTES
M2.0	FIRST FLOOR MECHANICAL PLANS
M2.1	SECOND FLOOR MECHANICAL PLANS
M3.0	MECHANICAL SCHEDULES
M3.1	MECHANICAL SPECIFICATIONS AND SCHEDULE
M4.0	MECHANICAL DETAILS
	PLUMBING
P1.0	PLUMBING SYMBOLS AND NOTES
P2.0	OVERALL PLUMBING PLANS
P3.0	PLUMBING SCHEDULES AND DETAILS
P3.1	PLUMBING DIAGRAMS
	ELECTRICAL
E1.1	ELECTRICAL LEGEND & PARTS PLAN
E2.1	FIRST FLOOR GENERAL LIGHTING PLAN
E2.2	SECOND FLOOR GENERAL LIGHTING
E3.1	FIRST FLOOR DISPLAY TRACK LIGHTING PLAN
E3.2	SECOND FLOOR DISPLAY TRACK LIGHTING PLAN
E4.1	FIRST FLOOR COMPOSITE LIGHTING PLAN
E4.2	SECOND FLOOR COMPOSITE LIGHTING PLAN
E5.1	FIRST FLOOR POWER PLAN
E5.2	SECOND FLOOR POWER PLAN
E5.3	FIRST FLOOR MECHANICAL PLAN
E5.4	SECOND FLOOR MECHANICAL PLAN
E6.1	FIRST FLOOR UNDERSLAB CONDUIT PLAN
E6.2	SECOND FLOOR UNDERSLAB CONDUIT PLAN
E7.1	FIRST FLOOR ENERGY CONTROL PLAN
E7.2	SECOND FLOOR ENERGY CONTROL PLAN
E7.3	ENERGY CONTROL DETAILS
E8.1	FIRST FLOOR LIFE SAFETY PLAN
E8.2	SECOND FLOOR LIFE SAFETY PLAN
E9.1	ELECTRICAL PANELS & RISERS
E10.1	ELECTRICAL DETAILS
E11.1	ELECTRICAL SPECIFICATIONS
E12.1	LIGHTING COMCHECK
FA1.1	FIRST FLOOR FIRE ALARM PERFORMANCE SPECS
FA1.2	SECOND FLOOR FIRE ALARM PERFORMANCE SPECS
EM1.1	FIRST FLOOR ENERGY MANAGEMENT SYSTEM PLAN
EM1.2	SECOND FLOOR ENERGY MANAGEMENT SYSTEM PLAN
EM1.3	ENERGY MANAGEMENT SYSTEM DETAILS
EM1.4	ENERGY MANAGEMENT SYSTEM DETAILS
LV1.1	FIRST FLOOR VOICE & DATA PLAN
LV1.2	SECOND FLOOR VOICE & DATA PLAN
B1.1	FIRST FLOOR BURGLAR PLAN
B1.2	SECOND FLOOR BURGLAR PLAN
CCTV1.1	FIRST FLOOR CCTV PLAN
CCTV1.2	SECOND FLOOR CCTV PLAN
SD1.1	FIRST FLOOR SOUND SYSTEM PLAN
SD1.2	SECOND FLOOR SOUND SYSTEM PLAN

CERTIFICATION:

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BOB'S Discount Furniture.
3401 W NEW HAVEN AVE.
MELBOURNE, FL 32904

REVISION DATES

NO.	DATE	TYPE

ISSUE DATES

TYPE	DATE
PERMIT/CONSTRUCTION SET	08/14/26

DRAWN BY

CHECKED BY

PROJECT NUMBER
26-91020

DATE
08/14/2026

SHEET TITLE
COVER SHEET

SHEET NUMBER
CS-1

LIFE SAFETY PROJECT NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING/OBTAINING SPRINKLER PLANS/PERMIT (DESIGN BUILD OF EXISTING SYSTEMS) FROM THE APPROVED COMPANY PER THE LOCAL FIRE DEPARTMENT. LANDLORD'S FIRE ALARM COMPANY SHALL BE USED, IF APPLICABLE. GC TO COORDINATE.
2. ALL EXIT DOOR TACTILE SIGNAGE SHALL COMPLY WITH NFPA 101,7.10.1.3 REQUIREMENTS AND SHALL HAVE RAISED CHARACTERS IN BRAILLE. REFER TO A8.0 DOOR/HARDWARE SCHEDULE NOTES FOR ADDITIONAL INFORMATION.
3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING FIRE EXTINGUISHERS MODEL #2A10BC ABC RATING PER QUANTITY AND LOCATIONS AS FOLLOWS:

   MOUNTING HEIGHT TO BOTTOM OF FIRE EXTINGUISHER TO BE 27" MAX AFF

   5.2.1 FIRE EXTINGUISHER SIZE AND PLACEMENT FOR CLASS A HAZARDS

   CRITERIA
   ORDINARY (MODERATE)
   HAZARD OCCUPANCY

   MIN. RATED SINGLE EXTINGUISHER 2-A
   MAX. FLOOR AREA PER UNIT OF "A" 1500 FT
   MAX. FLOOR AREA FOR EXTINGUISHER 11,250 FT.
   MAX. TRAVEL DISTANCE TO EXTINGUISHER 75 FT.CO

   FINAL FIRE EXTINGUISHER QUANTITY AND LOCATIONS SUBJECT TO LOCAL FIRE AUTHORITY REQUESTS OR ADJUSTMENTS AT TIME OF INSPECTION. GC RESPONSIBLE FOR ADDITIONAL EXTINGUISHERS AS REQUIRED BY FIRE AUTHORITY. COMPLY WITH NFPA 10.
4. SEE SHEET E8.1 FOR EXIT SIGNAGE CIRCUITING. GENERAL CONTRACTOR RESPONSIBLE FOR PROVIDING ADDITIONAL EXIT SIGNAGE AS REQUIRED BY LOCAL AUTHORITY INSPECTION REQUESTS.

EXIT REQUIREMENTS

REQUIRED NUMBER OF EXITS	PROVIDED NUMBER OF EXITS
3 SALES 1 RECEIVING	4 SALES 1 RECEIVING

ALLOWABLE OCCUPANT LOAD BASED ON EGRESS WIDTH

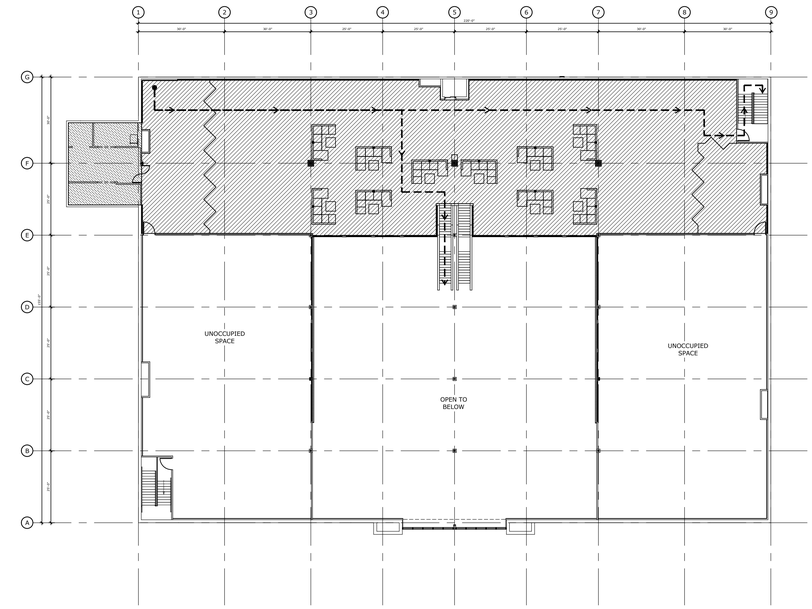
EXIT DOORS	PROVIDED WIDTH (IN INCHES)	REQUIRED WIDTH = .2 INCH/PER .3 AT STAIRS
EXIT 1 (DOOR 001A 001B) (SALES)	70"	
EXIT 2 (DOOR 020B) (STAIRS)	46"	
EXIT 3 (DOOR 004) (BEDROOM)	34"	
EXIT 4 (DOOR 021B) (STAIRS)	46"	
EXIT 5 (DOOR 016D) (RECEIVING)	34"	
TOTAL EGRESS WIDTHS SALES	196"	FIRST: 103 SECOND: 57
TOTAL EGRESS WIDTHS RECEIVING	34"	1.4" (MIN 34")

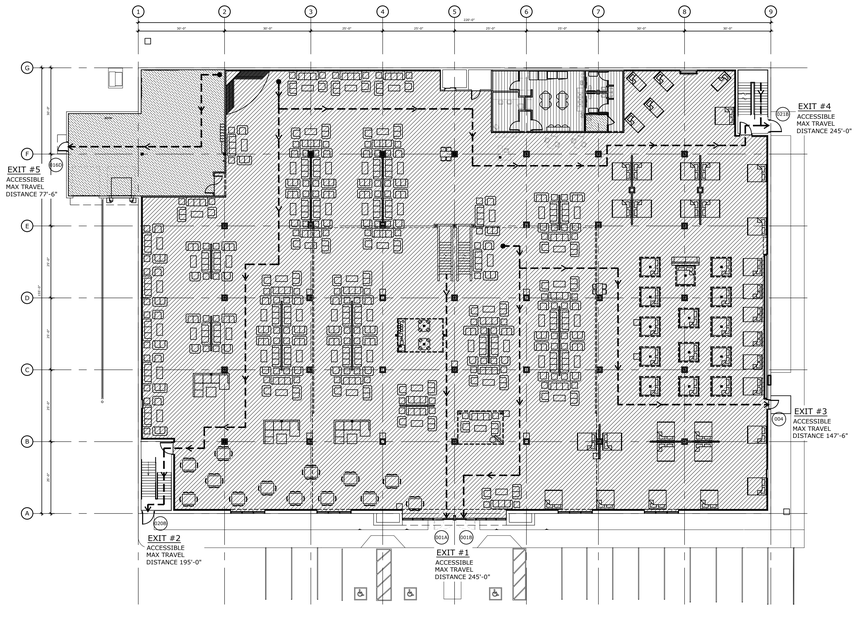
196" > 160" COMPLIES

50% OF SALES EGRESS WIDTH REQUIRED = 80"
REMAINING EXIT WIDTHS AFTER LOSS OF LARGEST = 126" COMPLIES

MAIN STORE OCC. CALCULATIONS

OCCUPANCY TYPE KEY	CALCULATION SF/OCCUPANT	OCC.
MERCANTILE SALES: FIRST FLOOR 30,456 SF/60 = 508	60 SF / OCCUPANT	508
MERCANTILE SALES: SECOND FLOOR 11,210 SF/60 = 187		187
MERCANTILE OFFICE 937 SF/150 = 7	150 SF / OCCUPANT	7
MERCANTILE STORAGE STOCKROOM FIRST 2,037 SF/300 = 7	300 SF / OCCUPANT	7
MERCANTILE STORAGE STOCKROOM SECOND 729 SF/300 = 3		3
TOTAL: 45,369 SF	SF/OCCUPANT	712





NORTH

OCCUPANCY LOAD / LIFE SAFETY PLAN

SCALE: NTS

APPLICABLE CODES

2023 FLORIDA BUILDING CODE
2023 FLORIDA MECHANICAL CODE
2020 NATIONAL ELECTRICAL CODE
2023 FLORIDA PLUMBING CODE
2023 FLORIDA FIRE CODE
2023 FLORIDA ACCESSIBILITY CODE
2023 FLORIDA ENERGY CONSERVATION CODE

CODE ANALYSIS

	EXISTING TENANT SPACE	PROPOSED TENANT	REMARKS
USE GROUP/MIXED USE	M/B	M/B	
TYPE OF CONSTRUCTION:	IV	IV	
TENANT AREA (USABLE MAIN INTERIOR):	59,500 SF	45,369 SF	SEE LOAD AND EXIT FOR SF BREAKDOWN
FULLY SUPPRESSED (SPRINKLED) (Y/N)	Y	Y	SEE SPRINKLER NOTES BELOW
FIRE-RESISTANCE TREATED LUMBER, PLYWOOD, AND BLOCKING REQ'D (Y/N)	Y	Y	
NON-COMBUSTIBLE VAPOR BARRIER (Y/N)	Y	Y	
TENANT NUMBER OF FLOORS:	2	2	
OCCUPANCY LOAD:	N/A	712	SEE OCCUPANCY LOAD DIAGRAM
ALLOWABLE EGRESS WIDTH:	N/A	TOTAL PROVIDED: 196" TOTAL REQ: 160"	EXIT LOCATIONS SHOWN
MERCANTILE MAXIMUM TRAVEL DISTANCE: 250'-0"	OK	245'-0"	SEE EXIT PATHWAY DIAGRAM

FIRE RESISTANCE OF BUILDING ELEMENTS

ELEMENT	REQUIRED	PROVIDED	REMARKS
STRUCTURAL FRAME (INCLUDING COLUMNS, BEAMS, GIRDERS)	0	0	EXISTING TO REMAIN
BEARING WALLS EXTERIOR INTERIOR	0	0	EXISTING EXTERIOR CMU WALL
NON-BEARING WALLS & PARTITIONS EXTERIOR INTERIOR	0	0	EXISTING TO REMAIN
FLOOR CONSTRUCTION	0	0	EXISTING TO REMAIN
ROOF CONSTRUCTION	0	0	EXISTING TO REMAIN

FIRE RESISTANCE OF BUILDING ELEMENTS

INTERIOR WALL + CEILING FINISHES:

ELEMENT	REQUIRED	PROVIDED
ROOMS & ENCLOSED SPACES	CLASS C	GWB: CLASS A (FLAME SPREAD: 0-25) ACOUSTIC CEILING TILE: SEE CEILING TYPES FINISH SCHEDULE FRP: CLASS A (FLAME SPREAD: 0-25) CERAMIC TILE: CLASS A (FLAME SPREAD: 0-25)
EXIT CORRIDORS	NA	
VERT EXITS, LOBBIES & PASSAGEWAYS	NA	

INTERIOR WALL + CEILING FINISHES:

ELEMENT	REQUIRED	PROVIDED
ROOMS & ENCLOSED SPACES	CLASS II	CARPET VINYL FLOORING CERAMIC TILES WOOD FLOORING
EXIT CORRIDORS	NA	
VERT EXITS, LOBBIES & PASSAGEWAYS	NA	

PUBLIC AND EMPLOYEE RESTROOM FIXTURE REQUIREMENTS:

TOTAL NUMBER OF REQUIRED PLUMBING FIXTURES:

OCCUPANCY CALCULATED 712 / 2 = 356	URINALS		WATER CLOSETS				LAVATORIES				DRINKING FOUNTAIN	SERVICE SINK
	RATIO	MEN	RATIO	MEN	RATIO	WOMEN	RATIO	MEN	RATIO	WOMEN		
	N/A		1-500	356	1-500	356	1-750	356	1-750	356	1-1000	1
TOTAL REQUIRED	N/A		1		1		1		1		1	1
PROVIDED	N/A		1		1		1		1		1 HI-LOW	1

FIRE SPRINKLER NOTES

- NO WORK SHALL BEGIN UNTIL FIRE SPRINKLER SHOP DWGS ARE APPROVED BY THE FIRE MARSHAL OR BUILDING OFFICIAL.
- PER BUILDING CODE, SPRINKLER SYSTEM SHALL BE CENTRALLY MONITORED.
- CONCEALED ROOF AREA-ALL NON-COMBUSTIBLE & CONSTRUCTION FRT WOOD & PLYWOOD TO COMPLY WITH NFPA 13 SECTION 8.14.1.2.11. IF APPLICABLE.
- DESIGN AND LAYOUT TO BE BY SPRINKLER CONTRACTOR. SUBMISSION TO THE FIRE MARSHAL FOR THE NECESSARY APPROVALS ARE THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR. ALL WORK SHALL CONFORM TO THE LATEST NFPA STANDARDS AND ALL CODES HAVING JURISDICTION. SPRINKLER HEADS TO BE LOCATED OR RELOCATED AS REQUIRED TO CONFORM WITH THE NEW LIGHTING AND HVAC DIFFUSER SHOWN ON THE LIGHTING AND MECHANICAL PLANS. COORDINATE ALL SHUTDOWNS AND TURN-ONS WITH OWNER/ LANDLORD PRIOR TO COMMENCEMENT OF THIS WORK.
- ALL SPRINKLER HEADS SHALL BE ESFR W/ CHROME FINISH & SEMI-RECESSED PLATE - VERIFY WITH AUTHORITIES HAVING JURISDICTION.
- REPLACE ALL PENDANT TYPE HEADS FOR UPRIGHT HEADS WHERE THERE IS AN OPEN STRUCTURE

EQUIPMENT RESPONSIBILITIES

OWNER FURNISHED/CONTRACTOR INSTALLED (OFCI):

A. CASH DRAWERS
B. ICE CREAM FREEZER (FOR CAFE)
C. COMMERCIAL UPRIGHT FREEZER
D. VESTIBULE CARPET SQUARES
E. 36 LOCKERS (TWO BANKS OF 18)
F. FEMININE HYGIENE DISPOSAL CANS
G. TOILET SEAT COVER DISPENSERS
H. AIR FRESHENER DISPENSERS
I. BABY CHANGING STATIONS
J. SOAP DISPENSERS
K. PAPER TOWEL DISPENSERS
L. TOILET TISSUE DISPENSERS
M. TRASH RECEPTACLES
N. XLERATOR HAND DRYERS
O. SAFE
P. SOME LVT (LUXURY VINYL TILE) & ADHESIVES.
Q. PREFABRICATED SALES STATIONS
R. FINANCING DESKS
S. INTERIOR SIGNAGE (OCCUPANCY, BATHROOMS, OFFICES, EXITS, ETC.)
T. FILE CABINETS.

CONTRACTOR FURNISHED/CONTRACTOR INSTALLED (CFCI):

A. FIRE EXTINGUISHERS
B. AWNING
C. TOILET PARTITIONS
D. COAT HOOKS IN RESTROOMS

OWNER FURNISHED/OWNER INSTALLED (OFOI):

1. FIRST AID KIT FOR SALES OFFICE, BREAK ROOM AND RECEIVING ROOM (WALL MOUNTED)
2. WATER COOLERS
3. ACRYLIC COOKIE DISPLAY CASES
4. SELF SERVE COFFEE DISPENSERS
5. NAPKIN, CREAMER, SUGAR, TEA, STIRRER, CUPS & LIDS DISPENSERS
6. CANDY JARS
7. COFFEE BREWERS
8. MICROWAVE (COUNTERTOP MODEL)
9. EXTERIOR SIGNAGE AND SIGNAGE PERMITS. (POWER TO SIGNAGE BY G.C.)
10. DOOR LOCK SETS (CORE). ALL OTHER HARDWARE BY G.C.
11. VENDING MACHINES
12. TELEVISIONS AND WALL MOUNTING BRACKETS
13. BREAK ROOM REFRIGERATOR
14. MANAGER'S OFFICE REFRIGERATOR (UNDER COUNTER)
15. RUG RACK
16. PREFABRICATED SALES STATIONS.

NOTE: REFER TO FINISH SCHEDULE SHEET A8.0 FOR SPECIFIC WALL & FLOOR FINISHES THAT ARE OWNERS FURNISHED & CONTRACTOR INSTALLED (OFCI). ALL OTHER FINISHES ARE CFCI.

BDF GENERAL NOTES

1. THE TERM "WORK" AS USED IN THESE NOTES SHALL INCLUDE ALL PROVISIONS AS DRAWN OR SPECIFIED IN THESE DOCUMENTS AS WELL AS ALL OTHER PROVISIONS SPECIFICALLY INCLUDED BY THE OWNER IN THE FORM OF DRAWINGS, SPECIFICATIONS, AND WRITTEN INSTRUCTIONS.
2. BIDDING REQUIREMENT: BEFORE SUBMITTING A BID, THE CONTRACTOR & ALL SUB-CONTRACTORS SHALL ADHERE TO THE FOLLOWING:
   A. RELOAD TO EXISTING CONSTRUCTION, VISIT THE PREMISES TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND THE EXTENT OF WORK REQUIRED TO COMPLETE THE PROJECT
   B. CONTRACTORS SHALL NOT SUBMIT A BID FOR THIS WORK UNLESS THEY ARE FULLY QUALIFIED AND LICENSED BY THE STATE IN WHICH THE WORK IS TO BE PERFORMED.
   C. IF THE CONTRACT DRAWINGS APPEAR TO BE UNCLEAR, AMBIGUOUS OR CONTRADICTORY, THE CONTRACTOR MUST REQUEST CLARIFICATION FROM CONSTRUCTION MANAGER IN WRITING MORE THAN 72 HOURS BEFORE SUBMITTING BIDS.
3. THE ARCHITECT SHALL BE AVAILABLE TO VISIT THE SITE WHEN REQUESTED BY THE OWNER. IF A CONDITION EXISTS THAT REQUIRES OBSERVATION OR ACTION BY THE ARCHITECT OR ENGINEER, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ARCHITECT.
4. CONTRACTOR SHALL BE FAMILIAR WITH PROVISIONS OF ALL APPLICABLE CODES AND SHALL INSURE THE COMPLIANCE OF THE WORK WITH ALL LOCAL, STATE AND FEDERAL CODES. IN THE EVENT OF CONFLICT BETWEEN LOCAL, STATE AND NATIONAL CODES, THE MORE STRINGENT SHALL GOVERN.
5. THESE DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. SAFETY, CARE OF ADJACENT PROPERTIES DURING CONSTRUCTION, COMPLIANCE WITH STATE AND FEDERAL REGULATION REGARDING SAFETY AND COMPLIANCE WITH REQUIREMENTS SPECIFIED IN THE OWNER/CONTRACTOR CONTRACT IS, AND SHALL BE, THE CONTRACTOR'S RESPONSIBILITY.
6. G.C. IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND SAFETY PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK.
7. DO NOT SCALE DRAWINGS. USE WRITTEN DIMENSIONS FOR ALL MEASUREMENTS. ALL DIMENSIONS ARE TO FACE OF FINISH OR FACE OF MASONRY UNLESS OTHERWISE NOTED.
8. SCOPE OF WORK. THE CONTRACTOR SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION AND PAY ALL EXPENSES INCURRED IN THE PROPER COMPLETION OF WORK UNLESS SPECIFICALLY NOTED TO BE THE WORK OF OTHERS. CONTRACTOR SHALL PERFORM ALL WORK NECESSARY FOR PRODUCING A COMPLETE, HABITABLE PROJECT, INCLUDING BUT NOT LIMITED TO SITE WORK, ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING AND HVAC.
9. INSURANCE: WORKMEN'S COMPENSATION, AS REQUIRED BY LAW, AND PUBLIC LIABILITY SHALL BE CARRIED BY THE CONTRACTOR. REFER TO OWNER CONTRACT DOCUMENTS FOR ADDITIONAL INSURANCE REQUIREMENTS.
10. PROTECTION: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS WORK AND THAT OF ITS SUBCONTRACTORS FOR LOSSES AND DAMAGES TO EQUIPMENT, TOOLS, AND MATERIAL USED IN CONJUNCTION WITH THE WORK AND FOR ACTS OF ITS EMPLOYEES.
11. CLEANING UP: THE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FROM ACCUMULATION OF WASTE MATERIALS AND RUBBISH AND AT COMPLETION OF THE WORK THE CONTRACTOR SHALL REMOVE ALL RUBBISH, IMPLEMENTS, AND SURPLUS MATERIALS AND LEAVE THE BUILDING CLEAN, WITH PAINTED AND WOOD SURFACES CLEAN, FLOORS WAXED AND/OR POLISHED AS SPECIFIED, AND ALL GLASS AND MIRRORS CLEANED AND POLISHED.
12. CONTRACTOR SHALL PROVIDE A LIST OF ALL SUBCONTRACTORS USED TO THE OWNER, COMPLETE WITH ADDRESSES, PHONE NUMBERS AND COPIES OF ALL WARRANTIES.
13. GENERAL CONTRACTOR SHALL PROVIDE AND PAY FOR TRASH DUMPSTER SERVICE AND/OR REFUSE REMOVAL FOR ALL SUB-CONTRACTORS WHICH INCLUDE MILLWORK, AND FLOORING SUB-CONTRACTORS.
14. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW BUILDING PERMIT APPROVED PLANS FOR ALL PERMIT REVISIONS AND CHANGES. NO WORK SHALL BEGIN PRIOR TO RECEIPT OF THE BUILDING PERMIT AND REVIEW OF PERMIT PLANS BY THE GENERAL CONTRACTOR.
15. ALL REFERENCES TO "OWNER": WITH-IN CONSTRUCTION DOCUMENTS IS REFERRING TO BOB'S FURNITURE. OWNER DOES NOT CONSTITUTE LANDLORD RESPONSIBILITY.

SCOPE OF WORK

TENANT FIT-OUT FOR BOB'S DISCOUNT FURNITURE
ELECTRICAL, WATER, SEWER & GAS SERVICES - EXISTING SERVICE TO REMAIN
NEW LIGHTING, POWER OUTLETS & SECURITY SYSTEM
MODIFY PLUMBING LINES FOR RESTROOMS & WATER COOLERS
NEW HVAC RTUS AND DISTRIBUTION

STANDARD ARCHITECTURAL SYMBOLS

- XX — KEY NOTES
- XXXX — DOOR SCHEDULE
- XX — EQUIPMENT NOTES
- XXX — ROOM NUMBERS
- XXXXX — FINISH NUMBER
- X — REVISION NUMBER
- XXX — DEMOLITION NOTES
- X / AX.X — WALL SECTION
- X / AX.X — ELEVATION
- X / AX.X — DETAILS

ABBREVIATIONS

I.E.: HM OR H.M. = HOLLOW METAL

ABBREV	DEFINITION
+/-	FIELD VERIFY ASSOC DIM
ABV	ABOVE
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
BRL	BUILDING RESTRICTION LINE
CJ	CONTROL JOINT
CKT	ELECTRICAL CIRCUIT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPRESSIBLE
CONC	CONCRETE
CONT	CONTINUOUS
CRS	COURSE
CS	CARPET STRIP
CT	CERAMIC TILE
DBL	DOUBLE
DF	DRINKING FOUNTAIN
DIM	DIMENSION
DS	DOWNSPOUT
DW	DRYWALL
EA	EACH
EJ	EXPANSION JOINT
ELEV	ELEVATION
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST	EXISTING
FD	FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FF	FINISH FLOOR
FLUOR	FLUORESCENT
FRT	FIRE RETARDANT TREATED
FT	FIRE RETARDANT TREATED
FV	FIELD VERIFY
GA	GAUGE
GC	GENERAL CONTRACTOR
GWB	GYPSUM WALL BOARD
H.C.	HANDICAPPED ACCESSIBLE
HC	HOLLOW CORE
HDR	HEADER
HDW	HARDWARE
HM	HOLLOW METAL
HT	HEIGHT
KD	KNOCK DOWN
LAM	LAMINATE/LAMINATED
MAS	MASONRY
MAX	MAXIMUM
MDF	MED DENSITY FIBERBOARD
MFR	MANUFACTURE(D)
MIN	MINIMUM
MO	MASONRY OPENING
MR	MOISTURE RESISTANT
MTD	MOUNTED
NIC	NOT IN CONTRACT
NR	NOT REQUIRED
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIMENSION
PAF	POWDER ACTUATED FASTENER
PCC	PRECAST CONCRETE
PL	PLATE
PLAM	PLASTIC LAMINATE
PT	PAINT
PT	PRESSURE TREATED
PTD	PAINT(ED)
PTN	PARTITION
QT	QUARRY TILE
R	RISER
RA	RETURN AIR
RD	ROOF DRAIN
RD/D	ROOF DRAIN
RO	ROUGH OPENING
RR	RESTROOM
RTU	ROOF TOP UNIT
SC	SOLID CORE
SF	SQUARE FEET
SI	SINGLE
SIM	SIMILAR TO
SQ	SQUARE
SQ	SQUARE MASONRY PIER
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
T	TREAD
TBD	TO BE DETERMINED
THK	THICK(NESS)
THLD	THRESHOLD
TMP	TEMPERED
TOD	TOP OF DIAM
TOM	TOP OF MASONRY
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITION TILE
VWC	VINYL WALL COVERING
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITH OUT
WC	WATER CLOSET
WD	WOOD
WF	WIDE FLANGE
WH	WATER HEATER
WWF	WOVEN WIRE FABRIC

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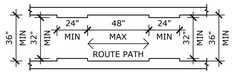
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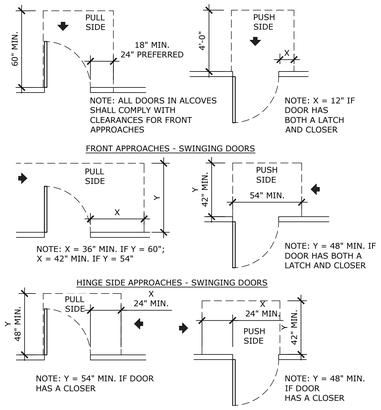
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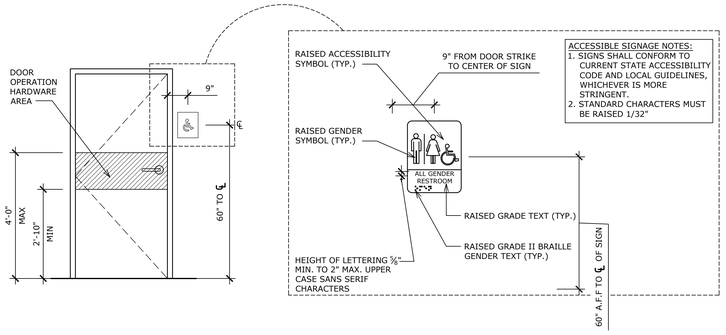


CLEAR WIDTH OF ACCESSIBLE ROUTE
*CLEARANCES BETWEEN 27" & 80" A.F.F.

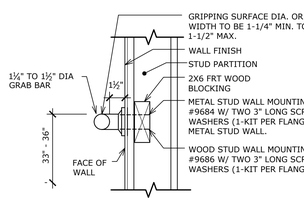
CLEAR WIDTH REQUIREMENTS



CLEARANCE AT DOOR SWINGS

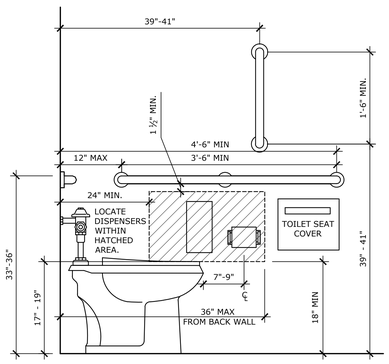


ACCESSIBLE RESTROOM SIGNAGE

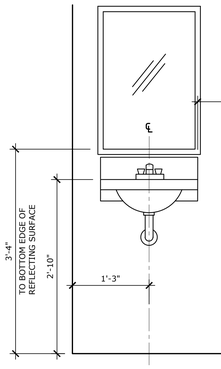


NOTE:
GRAB BAR FASTENERS AND MOUNTING SUPPORT SHALL BE ABLE TO WITHSTAND 250 LBS. POINT LOAD IN BENDING AND SHEAR TENSION.

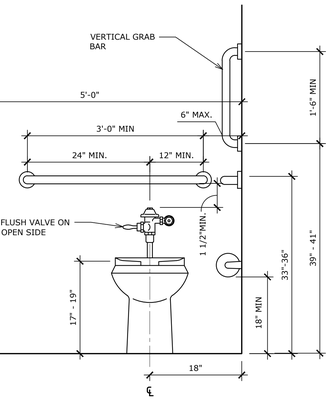
ACCESSIBLE GRAB BAR DETAIL



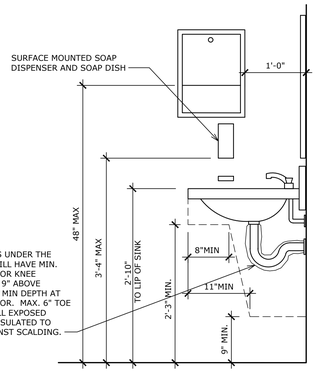
SIDE ELEVATION

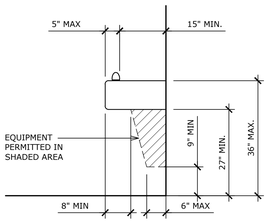


FRONT ELEVATIONS

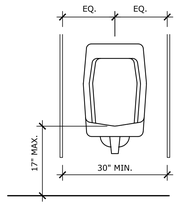


LAVATORY CLEARANCES

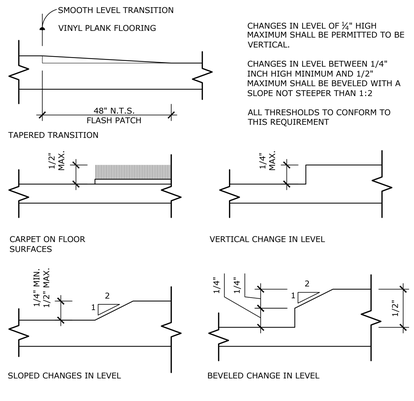




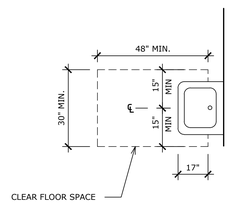
DRINKING FOUNTAINS



URINAL ELEVATION



CHANGES IN LEVEL



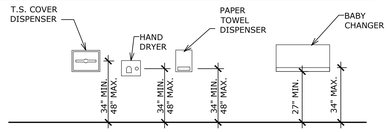
LAV CLEARANCE

CLEAR FLOOR SPACE

ADA NOTES:
INSIDE CLEAR DIMENSIONS SHOWN ARE AS REQUIRED TO MEET HANDICAPPED CLEARANCE CRITERIA. COORDINATE STUD/SUBSTRATE DIMENSIONS W/ WALL TYPES SHOWN ON FLOOR PLAN.
PROVIDE FRT WOOD BLOCKING IN WALL BEHIND ALL WALL MOUNTED TOILET ACCESSORIES & EQUIPMENT.

NOTE: ALL OPERABLE PARTS OF DISPENSERS SHALL BE 48" MAX A.F.F. (FORWARD APPROACH)

(ADA) HANDICAPPED ACCESSIBLE FIXTURE NOTES:
*TOILETS SHALL MEASURE 17" TO 19" TO THE TOP OF THE TOILET SEAT.
*ACCESSIBLE LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER THAN 34 INCHES AND THE LOWER FRONT EDGE AT LEAST 8 INCHES DEEP AND 27 INCHES HIGH, AND A TOE CLEARANCE AT LEAST 9 INCHES HIGH.
*FAUCET HANDLES OR CONTROLS SHALL BE OPERABLE WITH ONE HAND. IN THE AREA BENEATH ALL LAVATORIES THERE SHALL BE NO SHARP OR ABRASIVE SURFACES.
*HOT WATER AND DRAIN PIPES SHALL BE INSULATED OR COVERED AND PROTRUDE NO MORE THAN 6 INCHES FROM THE WALL.



ACCESSIBLE MOUNTING DIMENSIONS TABLE

OPERABLE PARTS MAXIMUM REACH DEPTH & HEIGHT						
MATCH REACH DEPTH	1/2" (13 mm)	2" (50 mm)	5" (125 mm)	6" (150 mm)	9" (230 mm)	11" (280 mm)
MATCH REACH HEIGHT	48" (1220 mm)	46" (1170 mm)	42" (1065 mm)	40" (1015 mm)	36" (915 mm)	34" (865 mm)

ACCESSIBLE MOUNTING HEIGHTS AND CLEARANCES

ACCESSIBILITY STANDARDS
SIGNAGE SHOULD COMPLY W/ RELEVANT GUIDELINES AS FOLLOWS.
A. ALL PERMANENT ROOM AND SPACE IDENTIFICATION SIGNAGE SHALL COMPLY WITH SECTIONS 1 THROUGH 5.
B. ALL DIRECTIONAL AND INFORMATIONAL SIGNAGE SHALL COMPLY WITH SECTIONS 1 & 2.
C. ALL IDENTIFICATION, INFORMATIONAL OR DIRECTIONAL SIGNAGE ABOUT ACCESSIBLE ELEMENTS AND FEATURES SHALL COMPLY WITH SECTIONS 1 THROUGH 5.

SIGNAGE DESIGN CRITERIA:
1. FINISH AND CONTRAST:
CHARACTER, SYMBOLS, BACKGROUNDS SHALL HAVE A NON-GLARE FINISH. CHARACTER & SYMBOLS SHALL CONTRAST A MIN. OF 70% W/ THEIR BACKGROUND. LRV FINISH (LIGHT REFLECTANCE VALUE) OF MATERIAL FINISHES SHALL BE ASTM E1349-90 OR EQUAL.
2. PROPORTIONS:
CHARACTERS ARE TO HAVE A WIDTH-TO-HEIGHT RATIO OF 3:5 TO 1:1.
CHARACTER STROKE WIDTH-TO-HEIGHT OF 1:5 TO 1:10.
3. RAISED CHARACTERS AND PICTORIAL SIGN SYMBOLS:
CHARACTER TYPE:
-1/32" RAISED (MIN.)
-SANS SERIF UPPERCASE WITH GRADE 2 BRAILLE.
-CHARACTER SIZE: MIN. 5/8" AND MAX. 2" HIGH
PICTOGRAMS:
ACCOMPANY W/ VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. OUTSIDE DIMENSION OF PICTOGRAM FIELD TO BE MIN. 6" HEIGHT.
CHARACTER PLACEMENT:
-CHARACTERS AND BRAILLE SHALL BE IN HORIZONTAL FORMAT
-BRAILLE SHALL BE PLACED 3/8" (MIN.) & 1/2" (MAX.) DIRECTLY BELOW THE TACTILE CHARACTERS (FLUSH LEFT OR CENTER).
-IF TACTILE TEXT IS MULTILINE, ALL BRAILLE SHALL BE PLACED TOGETHER BELOW ALL LINES OF TACTILE TEXT.
4. BRAILLE:
A. CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER APPLICABLE STANDARDS REQUIRE BRAILLE.
B. DOTS SHALL BE 1/10" ON CENTERS IN EACH CELL W/ 2/10" SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL.
C. DOTS SHALL BE RAISED A 1/40" MIN ABOVE THE BACKGROUND.
D. DOTS SHALL BE DOMED OR ROUNDED.
5. MOUNTING LOCATION AND HEIGHT:
A. INSTALL ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR.
B. WHERE NO WALL SPACE EXISTS ON THE LATCH SIDE OF THE DOOR (INCL. DOUBLE LEAFS), PLACE SIGN ON THE NEAREST ADJACENT WALL, PREFERABLY TO THE RIGHT SIDE.

HEIGHT: 60" ABOVE FINISH FLOOR TO THE CENTERLINE OF THE SIGN.
LOCATION: PLACE SO THE APPROACHING PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWINGING DOOR PATH.

DOORS
A. LATCHES AND LOCKSETS: PROVIDE LEVER TYPE, PUSH-PULL OR PANIC TYPE HARDWARE 30 INCHES TO 44 INCHES ABOVE FLOOR.
B. MAXIMUM FORCE TO OPERATE DOORS SHALL BE 5 LBS. PRESSURE. FIRE DOORS SHALL BE 15 LBS. MAXIMUM.
C. FLOOR SHALL BE LEVEL AT ALL DOORS.
1. THRESHOLDS: THE FLOOR OR LANDING SHALL NOTE BE MORE THAN 1/2-INCH LOWER THAN THE THRESHOLD OF THE DOOR WAY. CHANGE IN LEVEL BETWEEN 1/4-INCH AND 1/2-INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. (SEE BELOW).
2. LEVEL FLOOR OR LANDING: THERE SHALL BE A LEVEL AND CLEAR AREA ON EACH SIDE ON AN EXIT DOOR. THE LEVEL AREA SHALL BE AS ILLUSTRATED IN FIGURE A. THE SPACE BETWEEN THE TWO CONSECUTIVE DOOR OPENING (VESTIBULE) SHALL PROVIDE 48-INCHES OF CLEAR SPACE FROM ANY DOOR OPENING INTO SUCH SPACE. (SEE BELOW)
D. DOOR WIDTH AND HEIGHT: 3-FEET WIDE AND 6-FEET-8-INCHES HIGH. CLEAR WIDTH: 32-INCHES MINIMUM WITH DOOR OPEN 90-DEG. MEASURED FROM THE FACE OF THE DRR TO THE OPPOSITE SIDE.
E. THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOT - REST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.

EACH GRADE LEVEL EXTERIOR DOOR SHALL BE IDENTIFIED BY A TACTILE EXIT WITH THE WORDS 'EXIT'.

EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT MY MEANS OF A STAIRWAY OR RAMP SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE FOLLOWING WORDS AS APPROPRIATE:
1. 'EXIT STAIRS DOWN'
2. 'EXIT RAMP DOWN'
3. 'EXIT STAIR UP'
4. 'EXIT RAMP UP'
EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF AN EXIT ENCLOSURE OR AN EXIT PASSAGEWAY SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS 'EXIT ROUTE'.

EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS 'EXIT ROUTE'.
EACH EXIT DOOR THROUGH A HORIZONTAL EXIT SHALL BE IDENTIFIED BY A SIGN WITH THE WORDS 'TO EXIT'.
PROTRUDING OBJECTS:
A. PROJECTIONS FROM WALLS WITH A LEADING EDGE BETWEEN 27 INCHES AND 80 INCHES ABOVE FLOOR MAY PROJECT 4 INCHES MAXIMUM. LEADING EDGE AT OR BELOW 27 INCHES MAY PROJECT ANY AMOUNT. FREESTANDING PROJECTIONS WITH LEADING EDGE BETWEEN 27 INCHES AND 80 INCHES ABOVE FLOOR MAY PROJECT 12 INCHES MAX. PROJECTIONS MAY NOT REDUCE MANEUVERING SPACE, OR CLEAR WIDTH OF AN ACCESSIBLE ROUTE.
B. PROVIDE MINIMUM OF 80 INCHES HEAD ROOM.
ELECTRICAL
A. ELECTRICAL RECEPTACLES (15, 20, AND 30 AMPS) SHALL BE AT LEAST 15 INCHES ABOVE THE FLOOR.
B. SWITCHES AND CONTROLS FOR LIGHTS, APPLIANCES, COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE NOT LESS THAN 36" AND NO MORE THAN 48" A.F.F.
C. FIRE ALARM INITIATING DEVISES SHALL BE 48" ABOVE THE FLOOR, GROUND OR SIDEWALK.
SANITARY FACILITIES
A. GEOMETRIC SYMBOLS
1. SYMBOLS
A) MEN'S SANITARY FACILITIES SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE 1/4" THICK WITH SIDE 12" LONG AND VERTEX POINTING UPWARD.
B) WOMEN'S SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK, 12" DIAMETER.
C) UNISEX SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK, 12" DIAMETER, WITH A 1/4" THICK EQUILATERAL TRIANGLE SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12 INCH DIAMETER.
2. GEOMETRIC (CIRCLE AND TRIANGLE) SYMBOLS ON SANITARY DOORS SHALL BE CENTERED ON THE DOOR AT A HEIGHT OF 60" AND THEIR COLOR AND CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR.
3. RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH SECTION 1117B.5.6. THEY SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60 INCHES ABOVE THE FINISH FLOOR TO THE CENTER OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3 INCHES OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF THE DOOR.
SECTION 1117B.5.6
A) LETTER TYPE: LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32 INCH (0.794mm) MINIMUM AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE.
B) SYMBOL SIZE: RAISED CHARACTERS OR SYMBOLS SHALL BE MINIMUM OF ⅝ INCH (15.9mm) HIGH.
C) PICTORIAL SYMBOL SIGNS (PICTOGRAMS): PICTORIAL SYMBOL SIGNS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE A MINIMUM OF 6 INCHES (152mm) IN HEIGHT.
B. ACCESSIBLE COMPARTMENT DOORS SHALL BE EQUIPPED WITH AN AUTOMATIC CLOSING DEVICE. THE INSIDE AND OUTSIDE OF THE COMPARTMENT DOOR SHALL BE EQUIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELOW THE LATCH. THE LATCH SHALL BE FLIP-OVER STYLE, SLIDING OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST.
C. WATER CLOSET: FLUSH CONTROLS ARE TO BE OPERABLE BY AN OSCILLATING HANDLE WITH A MINIMUM OPERATING FORCE OF 3 LB./F OR BY A LOW VOLTAGE BUTTON. THE HANDLE OR BUTTON IS TO BE LOCATED ON THE WIDE SIDE SO AS TO BE OPERABLE WITHOUT REQUIRING EXCESSIVE BODY MOVEMENT.
D. URINALS: PROVIDE ALL WALL HUNG URINALS WITH ELONGATED RIM. FLUSH CONTROLS ARE TO BE HAND OPERATED AND ARE TO MEET THE SAME REQUIREMENTS AS THE FLUSH CONTROLS FOR THE WATER CLOSET AND ARE TO BE A MAXIMUM OF 44 INCHES ABOVE THE FLOOR. RIM ELEVATION TO BE 17 INCHES A.F.F.
E. LAVATORY: PROVIDE AT LEAST 29 INCHES FROM THE FLOOR TO THE BOTTOM OF THE APRON WITH KNEE CLEARANCE UNDER THE FRONT LIP EXTENDING A MINIMUM OF 30 INCHES WIDE. TO 8 INCHES MINIMUM DEPTH AT THE TOP. PROVIDE FOR THE CLEARANCE AT LEAST 30 INCHES WIDE. TO 9 INCHES ABOVE THE FLOOR AND 17 INCHES DEEP FROM THE FRONT OF THE LAVATORY.
PROVIDE A CLEAR FLOOR SPACE 30 INCHES x 48 INCHES IN FRONT OF THE LAVATORY. THE CLEAR SPACE MAY EXTEND INTO KNEE AND TOE SPACE UNDERNEATH THE LAVATORY. INSULATE HOT WATER AND DRAIN PIPES UNDER LAVATORIES. NO SHARP OR ABRASIVE SURFACES ARE ALLOWED UNDER LAVATORIES. FAUCET CONTROLS ARE REQUIRED TO BE OPERABLE WITH ONE HAND AND CANNOT REQUIRE GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE NECESSARY TO OPERATE CONTROLS IS NOT TO EXCEED 5 LB./F.
F. ACCESSORIES: WHERE TOWEL, SANITARY NAPKIN AND WASTE RECEPTACLES AND SIMILAR DISPENSING AND DISPOSAL FIXTURES ARE PROVIDED, AT LEAST ONE OF EACH TYPE IS TO BE LOCATED WITH ALL OPERABLE PARTS, INCLUDING COIN SLOTS, WITHIN 40 INCHES FROM THE FLOOR.
1. MOUNT MIRRORS WITH THE BOTTOM EDGE NO MORE THAN 40 INCHES A.F.F.
2. LOCATE TOILET TISSUE DISPENSERS ON THE WALL WITHIN 12 INCHES OF THE FRONT EDGE OF THE TOILET SEAT.
G. THE STRUCTURAL STRENGTH OF GRAB BARS, FASTENERS AND MOUNTING DEVICES SHALL MEET THE SPECIFICATIONS OF THE AMERICAN DISABILITIES ACT AND THE STATE OF CALIFORNIA TITLE 24, IF APPLICABLE.

H. SINGLE ACCOMMODATION: A CLEAR FLOOR SPACE OF AT LEAST 60 INCHES IN DIAMETER IS REQUIRED FOR SINGLE ACCOMMODATION TOILET ROOMS.
DRINKING FOUNTAINS
CLEAR FLOOR SPACE
A. A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305, POSITIONED FOR A FORWARD APPROACH TO THE DRINKING FOUNTAIN, SHALL BE PROVIDED. KNEE AND TOE SPACE COMPLYING WITH SECTION 306 SHALL BE PROVIDED. THE CLEAR FLOOR SPACE SHALL BE CENTERED ON THE DRINKING FOUNTAIN.
EXCEPTIONS:
A. DRINKING FOUNTAINS FOR STANDING PERSONS.
B. DRINKING FOUNTAINS PRIMARILY FOR CHILDREN'S USE SHALL BE PERMITTED WHERE THE SPOUT IS 30 INCHES (760 MM) MAXIMUM ABOVE THE FLOOR, AND A PARALLEL APPROACH COMPLYING WITH SECTION 305, CENTERED ON THE DRINKING FOUNTAIN, IS PROVIDED.
C. IN EXISTING BUILDINGS, EXISTING DRINKING FOUNTAINS PROVIDING A PARALLEL APPROACH COMPLYING WITH SECTION 305, CENTERED ON THE DRINKING FOUNTAIN, SHALL BE PERMITTED.
D. WHERE SPECIFICALLY PERMITTED BY THE ADMINISTRATIVE AUTHORITY, A PARALLEL APPROACH COMPLYING WITH SECTION 305, CENTERED ON THE DRINKING FOUNTAIN, SHALL BE PERMITTED FOR DRINKING FOUNTAINS THAT RÉPLACE EXISTING DRINKING FOUNTAINS WITH A PARALLEL APPROACH

OPERABLE PARTS
A. OPERABLE PARTS SHALL COMPLY WITH SECTION 309.
SPOUT OUTLET HEIGHT
A. SPOUT OUTLETS OF WHEELCHAIR ACCESSIBLE DRINKING FOUNTAINS SHALL BE 36 INCHES (915 MM) MAXIMUM ABOVE THE FLOOR. SPOUT OUTLETS OF DRINKING FOUNTAINS FOR STANDING PERSONS SHALL BE 38 INCHES (965 MM) MINIMUM AND 43 INCHES (1090 MM) MAXIMUM ABOVE THE FLOOR.
SPOUT LOCATION
A. THE SPOUT SHALL BE LOCATED 15 INCHES (380 MM) MINIMUM FROM THE VERTICAL SUPPORT AND 5 INCHES (125 MM) MAXIMUM FROM THE FRONT EDGE OF THE DRINKING FOUNTAIN, INCLUDING BUMPERS. WHERE ONLY A PARALLEL APPROACH IS PROVIDED, THE SPOUT SHALL BE LOCATED 3 1/2 INCHES (89 MM) MAXIMUM FROM THE FRONT EDGE OF THE DRINKING FOUNTAIN, INCLUDING BUMPERS.

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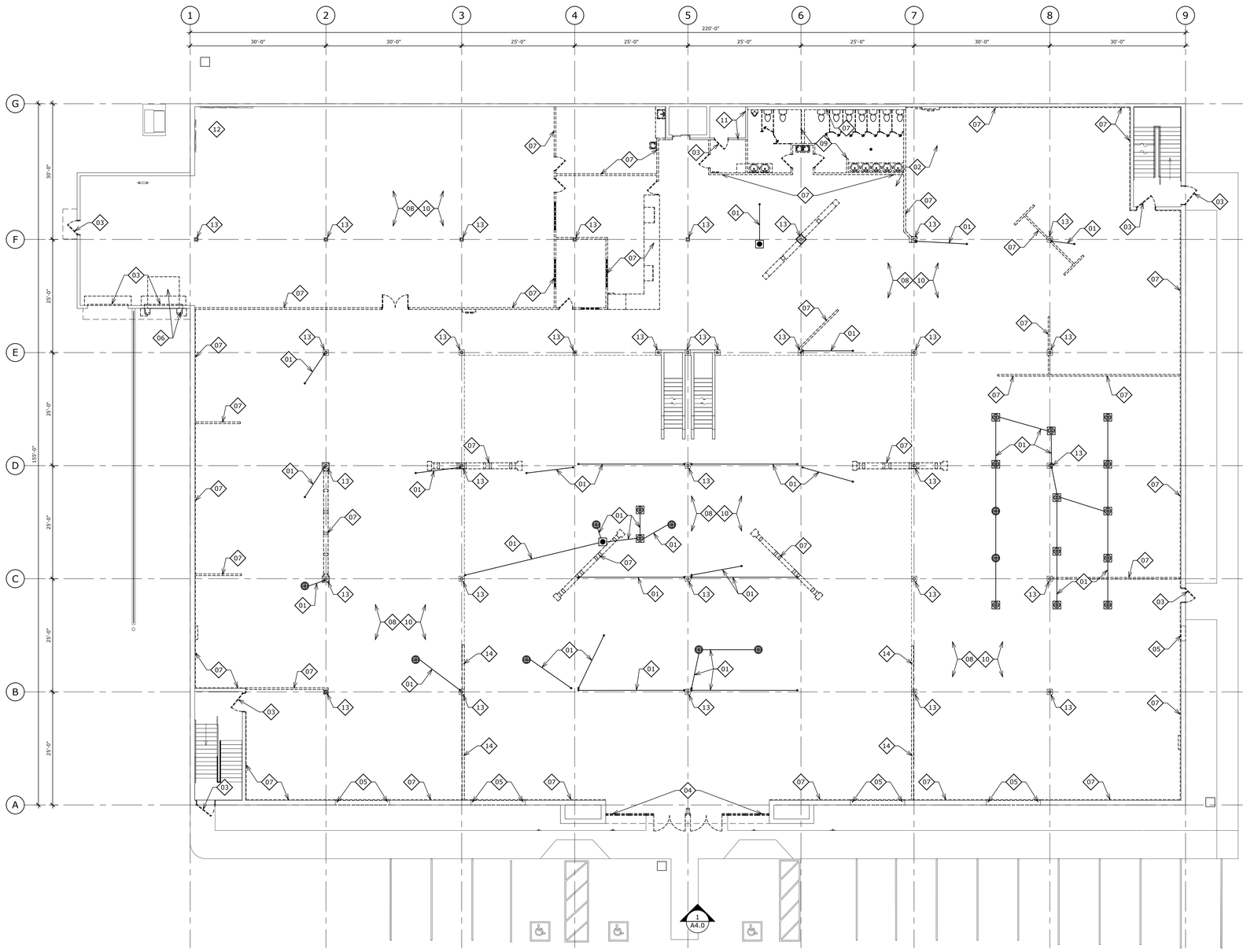
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DATE
08/14/2026

SHEET TITLE
ACCESSIBILITY DETAILS

SHEET NUMBER
GN-2



1 FIRST FLOOR DEMOLITION PLAN

SCALE: 3/32" = 1'-0"

NORTH

DEMOLITION GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR BECOMING FAMILIAR WITH THE DEMOLITION AND ARCHITECTURAL DRAWINGS. FIELD VERIFY ALL CONDITIONS AND DIMENSIONS BEFORE BIDDING OR START OF ANY DEMOLITION WORK, CONTRACTOR MUST NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
2. DEMOLITION AT NO TIME PRIOR TO OR DURING CONSTRUCTION SHALL THE INTEGRITY OF THE EXISTING BUILDING BE JEOPARDIZED.
3. THE CONTRACTOR IS TO PROTECT FROM DAMAGE ALL EXISTING FINISH WORK TO REMAIN. ANY DAMAGE CAUSED BY DEMOLITION OR CONSTRUCTION IS TO BE REPAIRED TO ORIGINAL STATE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER/ARCHITECT.
4. THIS PLAN SHOWS GENERAL DEMOLITION WORK TO BE PERFORMED AND DOES NOT RELIEVE THE CONTRACTOR FROM OTHER DEMOLITION WORK REQUIRED TO PRODUCE THE BUILDING MODIFICATIONS SHOWN ON REMAINING CONTRACT DRAWINGS WITH-IN THIS SET.
5. DISPOSAL OF WASTE MATERIALS AND DEBRIS: EXCEPT WHERE NOTED, OTHERWISE ALL REMOVED MATERIALS BECOME THE PROPERTY OF THE GENERAL CONTRACTOR WHO SHALL PROMPTLY AND LEGALLY DISPOSE OF SAME, TOGETHER WITH ALL DEBRIS RESULTING FROM HIS WORK AWAY FROM OWNER'S PROPERTY. SUCH RUBBISH AND DEBRIS SHALL BE REMOVED EACH DAY AND AT THE JOB COMPLETION AND AT SUCH OTHER TIMES AS THE RUBBISH MAY ACCUMULATE TO THE EXTEND OF INTERFERING WITH THE JOB PROGRESS OR BUILDING OPERATION.
6. CONTRACTOR TO PATCH OR REPLACE ALL UNEVEN FLOOR CONDITIONS TO A CONSISTENT ELEVATION SUITABLE TO RECEIVE THE NEW FLOOR FINISH. FLOOR LEVELING MATERIAL MAY BE REQUIRED TO ACHIEVE PROPER FLOOR PREP. VERIFY CONDITIONS AND/OR REQUIREMENTS AT BID WALK THRU.
7. REMOVE ALL UNUSED AND UNNECESSARY ELECTRICAL EQUIPMENT.
8. STRUCTURAL ELEMENT(S) DEMOLITION: PROVIDE TEMPORARY STRUCTURAL SHORING SUPPORT AS REQUIRED PER QUALIFIED ELIMINATION OF BEARING WALLS AND/OR STRUCTURAL ELEMENTS. SHORING SHALL BE PROVIDED BY A LICENSED COMPANY AND SHALL REMAIN IN PLACE DURING DEMOLITION AND UNTIL NEW CONSTRUCTION AND STRUCTURAL WORK IS COMPLETED. THE CONTRACTOR IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. ITS THE CONTRACTORS RESPONSIBILITY TO BE FAMILIAR WITH THE WORK REQUIRED IN THE CONSTRUCTION DOCUMENTS. REFER TO STRUCTURAL AND DEMO SHEETS FOR COORDINATION.
9. SAW-CUT CONC. SLAB FOR ALL NEW CONDUIT INSTALLATION IN FLOOR SLAB AND NEW UNDERGROUND PLUMBING WORK. REFER TO PLUMBING & ELECTRICAL DRAWINGS FOR LOCATIONS. PATCH AND REPAIR CONC. SLAB TO MATCH EXIST. ADJOINING SURFACES TO NEW FINISHES. USE #5 DOWELS TO TIE SLAB INFILL INTO EXISTING.
10. INFILL ALL HOLES IN SLAB TO MATCH EXISTING CONSTRUCTION. THIS INCLUDES ALL ELECTRICAL BOXES, ELEVATOR PITS OR ANY OTHER HOLES IN THE SLAB. GC TO VERIFY EXISTING CONDITIONS AT BID WALK THRU.
11. GC IS TO INCLUDE IN THE BASE CONTRACT SCOPE TO REMOVE ALL PRIOR TENANT IMPROVEMENTS AND PATCH BACK TO MATCH ADJACENT FINISH CONDITIONS UNLESS SPECIFICALLY CALLED OUT TO REMAIN AND REUSE (INTERIOR AND EXTERIOR).

KEYED DEMOLITION NOTES

01 SAWCUT PORTION OF EXISTING SLAB FOR NEW CONDUIT UNDER SLAB FOR ELECTRICAL RECEPTACLES. REPAIR SLAB AS REQUIRED RE: 2/D1.0 RE: ELECTRICAL PLANS AND FLOOR PLAN FOR WALL DROP AND OUTLET LOCATIONS

01A CORE PORTION OF EXISTING SLAB FOR NEW ELECTRICAL RECEPTACLES. REPAIR SLAB AS REQUIRED RE: ELECTRICAL PLANS FOR OUTLET LOCATIONS

02 SAWCUT PORTION OF EXISTING SLAB FOR NEW PLUMBING LINES. REPAIR SLAB AS REQUIRED RE: 2/D1.0, RE: PLUMBING PLANS FOR SANITARY PIPE LOCATIONS.

03 REMOVE ALL DOORS, FRAMES, HARDWARE, GLAZING (IF APPLICABLE) AND ALL OTHER ASSOCIATED ITEMS IN THEIR ENTIRETY. RE: A1.0 FOR SCOPE OF NEW DOOR OR INFILL.

04 REMOVE EXISTING STOREFRONT, ENTRY DOOR, GLAZING, AND ACCESSORIES. PREPARE FOR NEW DOOR AND STOREFRONT GLAZING. TAKE PRECAUTIONS TO PROTECT NEW AND EXISTING CONSTRUCTION. PATCH AND REPAIR ADJACENT FINISHES TO REMAIN. RE: A4.0.

05 REMOVE PORTION OF EXISTING CMU WALL TO PROVIDE NEW OPENING IN EXISTING WALL AS INDICATED, SEE SHEET A1.0 AND STRUCTURAL. TAKE ALL PRECAUTIONS TO PROTECT NEW AND EXISTING CONSTRUCTION. PROVIDE TEMPORARY STRUCTURAL SUPPORT AS REQUIRED DURING DEMOLITION AND UNTIL NEW LINTELS ARE INSTALLED. NOTIFY ARCHITECT IF THERE ARE ADDITIONAL OR MISSING COLUMNS IN WALL. SEE DEMOLITIONS NOTES & STRUCTURAL SHEETS FOR EXTENT OF DEMOLITION.

06 REMOVE EXISTING DOCK LEVELER, BUMPERS AND DOCK SEAL. PREPARE FOR PIT DOCK LEVELER BUMPERS AND DOCK SEAL. REFER TO A1.0.

07 EXISTING INTERIOR PARTITION WALLS, WALL FURRING, FIXTURES, DOORS, GLAZING, AND ASSOCIATED ITEMS (FASTENERS/ATTACHMENT BRACKETS, ELECTRICAL CONDUIT/BOXES, LOWER VOLTAGE, ETC.) TO BE REMOVED AND CAPPED BACK TO SOURCE.

08 REMOVE EXISTING FLOORING AND MASTIC AND ANY IN-SLAB OUTLETS. PREPARE SLAB FOR NEW FINISHES. TYPICAL THROUGHOUT ENTIRE SPACE. AT AREAS OF SLAB THAT ARE POLISHED, GRIND SLAB TO RECEIVE NEW FINISHES (60 GRIT GRINDING). APPLY ARDEX CONCRETE PATCH AS NECESSARY PER MANUFACTURER'S SPECIFICATIONS.

09 REMOVE EXISTING PLUMBING FIXTURES AND CAP ALL ABANDONED UTILITIES BACK TO MAIN. REUSE EXISTING MAIN LINES RE: PLUMBING DRAWINGS.

10 REMOVE ALL CEILING TILES (IF APPLICABLE), HANGING CEILING ELEMENTS, AND LIGHTING. RE: MECHANICAL DRAWINGS FOR DUCTWORK SCOPE OF WORK.

11 EXISTING FURRING/PARTITION TO REMAIN. REMOVE ALL TRIM AND VINYL BASE, PATCH/REPAIR G.W.B. SURFACE FOR A SMOOTH CONTIGUOUS LEVEL 4 FINISH, READY TO PAINT.

12 REMOVE UNUSED ELECTRICAL GEAR AND PREPARE FOR NEW ELECTRICAL GEAR. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.

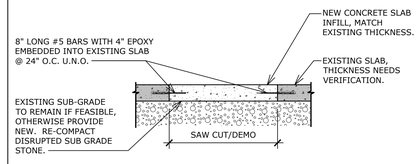
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DEMOLITION LEGEND

- EXISTING FURRING TO BE REMOVED
- EXISTING WALL TO BE REMOVED
- EXISTING DOOR TO BE REMOVED
- EXISTING PRECAST OR CMU WALL TO REMAIN
- EXISTING WALL TO REMAIN



2 SLAB INFILL SCALE: 1/8" = 1'-0"

CERTIFICATION:

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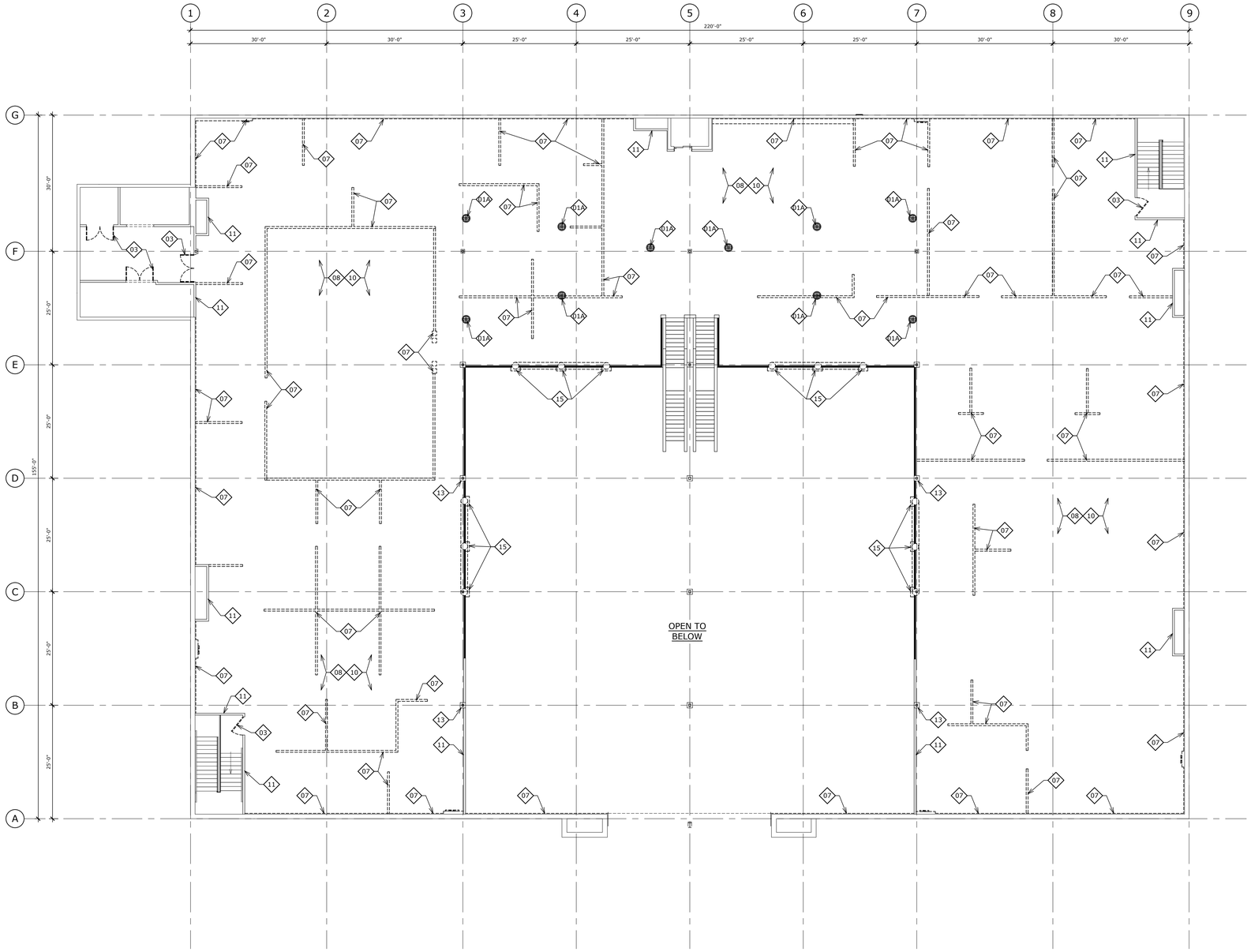
DRAWN BY
CHECKED BY

PROJECT NUMBER
26-91020

DATE
08/14/2026

SHEET TITLE
FIRST FLOOR DEMOLITION PLAN

SHEET NUMBER
D1.0A



1 SECOND FLOOR DEMOLITION PLAN SCALE: 3/32" = 1'-0"

NORTH

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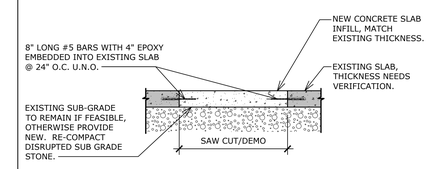
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2 SLAB INFILL SCALE: 1/8" = 1'-0"

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DRAWN BY
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PROJECT NUMBER
26-91020

DATE
08/14/2026

SHEET TITLE
SECOND FLOOR DEMOLITION PLAN

SHEET NUMBER
D1.0B

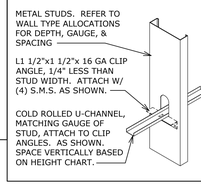
DISPLAY PARTITION SCHEDULE

SYMBOL	DESCRIPTION	LOCATION	REMARKS
P-1	HALF HEIGHT PARTITION - 6'-0" A.F.F. SEE SECTIONS 1/A8.2. 3 5/8" X 20 GA. MTL STUDS @ 16" O.C. W/ ONE LAYER 5/8" G.W.B. EACH SIDE & EDGES.	BEDROOMS SLEEP CENTER	PROVIDE ADDITIONAL STEEL SUPPORT; SEE DETAIL 3/A8.2
P-2	HALF HEIGHT PARTITION - 4'-0" A.F.F. SEE SECTIONS 1/A8.2. 3 5/8" X 20 GA. MTL STUDS @ 16" O.C. W/ ONE LAYER 5/8" G.W.B. EACH SIDE & EDGES.	UPHOLSTERY/ MOTION/ LEATHER	PROVIDE ADDITIONAL STEEL SUPPORT; SEE DETAIL 3/A8.2
P-3	HALF HEIGHT PARTITION - 3'-6" A.F.F. SEE SECTIONS 1/A8.2. 3 5/8" X 20 GA. MTL STUDS @ 16" O.C. W/ ONE LAYER 5/8" G.W.B. EACH SIDE & EDGES.	UPHOLSTERY/ MOTION/ LEATHER	PROVIDE ADDITIONAL STEEL SUPPORT; SEE DETAIL 3/A8.2

INTERIOR FRAMING

- 5" NOMINAL WALL THICKNESS = 5/8" GWB EA SIDE OF 3⅝" 18 GAUGE METAL (362S125-43) STUDS @ 16" O.C. WHERE EXTENDED TO ROOF DECK. WHERE 3⅝" STUDS STOP ABOVE FINISHED CEILINGS 20 GAUGE STUDS (362S125-33) ARE ACCEPTABLE.
- 7" NOMINAL WALL THICKNESS = 5/8" GWB EA SIDE OF 6" 18 GAUGE METAL (600S125-43) STUDS @ 16" O.C. WHERE EXTENDED TO ROOF DECK.
- EXTEND GWB AT EXISTING AND NEW PARTITIONS TO MIN 6" ABOVE FINISHED CEILING PLAN AND TO DECK ABOVE WHERE NO FINISHED CEILING OR AN OPEN CEILING GRID IS PRESENT AND FULL HEIGHT AT MANAGERS OFFICE AND DATA ROOM.
- REFER TO PARTITION HEIGHT LEGEND FOR HEIGHT OF STUDS ABOVE FINISHED FLOOR.
- PROVIDE BATT/SOUND PROOFING INSULATION AT RESTROOM AND OFFICE WALLS.
- PROVIDE POLYISO RIGID INSULATION AT PERIMETER EXTERIOR WALLS AS NOTED.

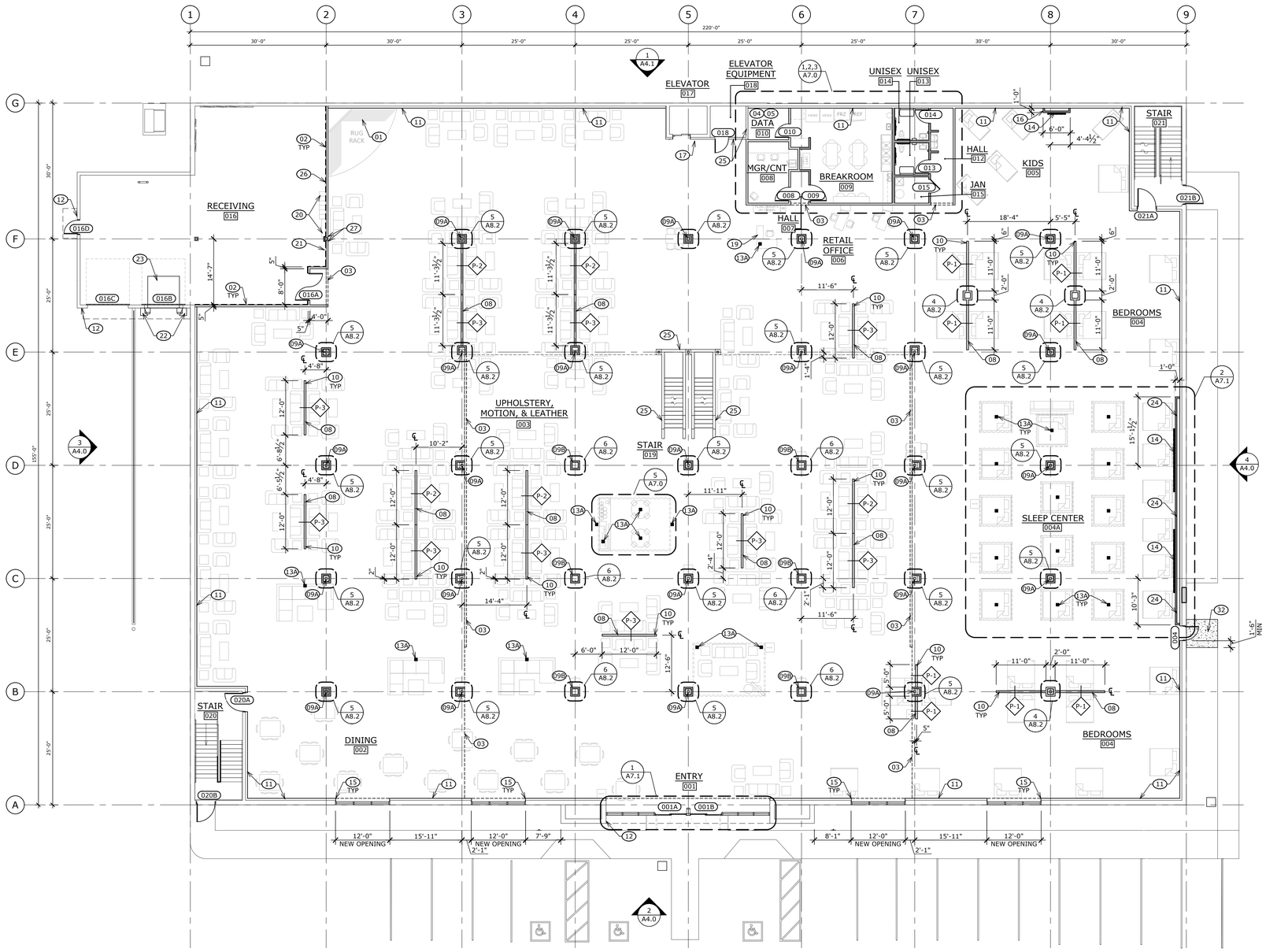
HORIZONTAL STUD BRACING REQ.



MAX WALL HEIGHT	# OF BRIDGING ROWS	BRIDGING LOCATION
10'-0" TO 14'-0"	ONE	AT MID SPAN
14'-0" TO 18'-0"	TWO	AT THIRD PTS
18'-0" TO 22'-0"	THREE	AT QUARTER PTS
ABOVE 22'-0"	FIELD VERIFY	EQUAL SPACING

NOTE: PROVIDE BRIDGING ONLY IF ONE OR BOTH SIDES OF STUD HAS NO CONTINUOUS WALL SHEATHING.

NOTE:
ALL MONOKOTE FIREPROOFING THAT IS MISSING OR MODIFIED DUE TO NEW LAYOUT OF WALLS TO BE PROPERLY PATCHED BACK.



NORTH

SCALE: 3/32" = 1'-0"

1 | FIRST FLOOR CONSTRUCTION PLAN

GENERAL NOTES

A. DO NOT SCALE THESE PRINTS - USE PLAN DIMENSIONS AS NOTED. CALL ARCHITECT REGARDING ANY DISCREPANCIES.
B. ALL INTERIOR GWB PARTITIONS MEASURED FROM FACE OF GWB U.N.O.
C. ALL PERIMETER WALLS MEASURED FROM INTERIOR FACE OF EXISTING WALL.
D. ALL HALF-HEIGHT PARTITIONS MEASURED FROM FACE OF GWB.
E. VERIFY LOCATION OF ALL DRAINS ON PLUMBING PLAN.
F. PROVIDE WALL WATERPROOFING IN RESTROOM.
G. SEE RCP FOR ALL CEILING INFO (SHEET A2.0)
H. REFER TO SHEET A8.2 FOR ALL DISPLAY PARTITIONS IN SALES AREA.
J. PROVIDE TILE BACKER BOARD AT ALL AREAS SCHEDULED TO HAVE TILE FINISH (M.R. GWB NOT ACCEPTABLE). PROVIDE MOISTURE RESISTANT GYPSUM BOARD ELSEWHERE IN TOILET & JANITOR ROOMS.
K. PROVIDE FRT WOOD BLOCKING IN PARTITIONS FOR: ROBE HOOKS, CHANGING STATIONS, BULLETIN BOARDS, LOCKERS, MIRRORS, RECESSED WALL LIGHTING, HANDRAILS, GRAB BARS, LADDERS, COUNTERTOPS, ETC. REFER TO CODE ANALYSIS ON SHEET GN-1 FOR FIRE RETARDANT TREATMENT REQUIREMENTS.
L. PROVIDE SLIP DEFLECTION TRACK FOR ALL PARTITIONS EXTENDING TO DECK ABOVE.
M. ALL COLUMN FRAMING & COLUMN CAPITALS SHALL ALIGN WITH THE CEILING\DECK (DO NOT INSTALL AT 45 DEGREES).
N. PROVIDE BRACING AS REQ'D FOR ALL INTERIOR STUD FRAMED WALLS THAT STOP SHORT OF ROOF DECK /STRUCTURE. BACK TO SUITABLE STRUCTURE. PROVIDE COLD FORMED CHANNELS VERTICALLY THRU STUD KNOCKOUTS AS REQUIRED.
O. GYPSUM BOARD CONTROL JOINTS 30'-0" O.C. MAX. AND ALL CORNERS OF DOORS, WINDOWS AND FRAMED OPENINGS
P. PROVIDE METAL CORNER BEAD AT ALL GYP. BOARD. OUTSIDE CORNERS. TAPE, SAND, AND PREP AS REQUIRED.
Q. PROVIDE METAL J-BEAD AT ALL EXPOSED GYP. BD. ENDS. TAPE, SAND, AND PREP AS REQUIRED.
R. ALL FURRING TO RUN VERTICAL.
S. CONTRACTOR TO SEAL ALL NEW PIPE, DUCT, AND JOIST PENETRATIONS THRU FIRE RATED WALLS. PROVIDE 3M FIRE PRODUCTS, AND INCLUDE COLLARS ON PLASTIC PIPES OVER 2" IN DIAMETER.
T. FINISH FLOOR ELEVATION (0'-0") IS FOR REFERENCE ONLY.
U. N/A
V. CAULK ALL PENETRATIONS AND OPENINGS TO PREVENT WATER AND AIR INFILTRATION.
W. DURING CONSTRUCTION PORTABLE FIRE EXTINGUISHERS SHALL BE ON SITE IN EVERY STORAGE AND CONSTRUCTION SHED AND WHERE SPECIAL HAZARDS EXIST.
X. ALL NON-COMPOSITE PARTITIONS EXTENDING TO DECK, WITH A BOTTOM OF DECK ELEVATION AT OR GREATER THAN 23'-0", SHALL INCLUDE BRACING @ 48" O.C. ABOVE FINISHED CEILING TO THE ROOF DECK.

KEYED NOTES

01. NEW GALT DISPLAY RACK RUG GALLERY FREESTANDING DISPLAY. OWNER FURNISHED OWNER INSTALLED.
02. ⅝" FRT PLYWOOD FROM FLOOR TO 4'-0" A.F.F. ALONG STUD WALLS IN RECEIVING AREA IF NOT EXISTING.
03. LINE OF GWB SOFFIT OR BULKHEAD ABOVE. RE: A2.0 FOR HEIGHT A.F.F.
04. 5/8" FIRE TREATED PLYWOOD TO 9'-0" A.F.F.; ONLY ON INTERIOR OF DATA ROOM.
05. 6"Ø PVC TUBE & WALL MOUNTED FOLDER HOLDER BY G.C. FOR DRAWINGS AND DOCUMENT STORAGE. LOCATION IN ROOM TO BE VERIFIED WITH BOBS CM.
06. NOT USED
07. EXISTING ROOF HATCH, LADDER, AND NEW SAFETY BAR CAGE. REFER TO SHEET A8.3. CONTACT NATIONAL ACCOUNT MANAGER MICHELE ORAS (800-770-8851 (OFFICE), 734-812-2740 (CELL), MICHELE@LADDERPORT.COM) FOR ADDITIONAL INFORMATION.
08. DISPLAY PARTITION - REFER TO DISPLAY PARTITION SCHEDULE AND SHEET A8.2 FOR DETAILS (P-#)
09A. EXISTING STEEL COLUMN AND FIRE RATED FURRING. FRAME AROUND PER PLAN (24"x24") REFER TO SHEET A8.2.
09B. NEW (24"x24") LOW WALL IN LINE WITH COLUMN GRID REFER TO SHEET A8.2.
10. DISPLAY WALL END WALL SUPPORT (LOW WALLS) TYPICAL EACH END. REFER TO DETAILS ON SHEET A8.2.
11. NEW PERIMETER 3⅝" 18 GAUGE METAL STUDS @ 16" O.C. WITH ⅝" GYPSUM BOARD OVER 1" POLYISOCYANURATE RIGID INSULATION FULLY ADHERED TO EXISTING WALL TO BE FULL HEIGHT AT EXTERIOR WALLS. TAPE RIGID INSULATION SEAMS PER MFG. REQUIREMENTS. WALL TO BE LEVEL 4 FINISH (READY TO PAINT).
12. DOORBELLS AT ENTRY DOOR, CUSTOMER PICKUP/LOADING DOCK SWING DOOR AND CUSTOMER PICK DOOR. SEE ELECTRICAL DRAWINGS.
13A. LOCATION OF (N) FLOOR POWER RECEPTACLES, SAWCUT SLAB & PROVIDE TRENCH TO NEAREST WALL. COORDINATE EXACT LOCATION W/ ELECTRICAL. PATCH FLUSH W/ EXISTING FLOOR, PROVIDE #5 DOWNS DRILLED & EPOXY SET AT 24" O.C.
13B. LOCATION OF (N) FLOOR POWER RECEPTACLES. RECEPTACLES TO BE THRU FLOOR FIRE RATED. COORDINATE EXACT LOCATION AND TYPE W/ ELECTRICAL.
14. NEW ILLUMINATED SIGN. SEE ELECTRICAL DRAWINGS.
15. RETURN GYPSUM AT WINDOWS.
16. KID'S BUMPOUT TO BE 6'-0" WIDE, 12" DEEP, & 12'-0" TALL. 3⅝" 20 GAUGE METAL STUD @ 16" O.C. BRACED TO WALL AT MID POINT AND TOP. BUMPOUT TO BE PAINTED P-2. TOP OF BUMPOUT TO BE LEFT OPEN NO LID ON TOP.
17. EXISTING WALL FURRING TO REMAIN. WALL TO BE LEVEL 4 FINISH (READY TO PAINT).
18. ADJUSTABLE CURTAINS, MAINTAIN CLEAR ROUTE TO EXISTING EXIT STAIRS.
19. ACCESSIBLE PREFABRICATED SALES STATIONS. PROVIDED BY BDF, INSTALLED BY CONTRACTOR.
20. EMPLOYEE LOCKERS AND WALL MOUNTED COAT RACK. PROVIDE BLOCKING AS REQUIRED. 6 LOCKERS ARE ACCESSIBLE
21. ACCESSIBLE COAT HOOK MOUNTED BETWEEN 44" - 48" AFF.
22. NEW NORDOCK WEARTOUGH SERIES MODEL FP AT LOADING DOCK AREA. INSTALL PER MANUFACTURER'S REQUIREMENTS. CONTACT NATIONAL ACCOUNT MANAGER RICK GABLE (414-234-8732, RICK.GABLE@4FRONTES.COM) FOR ADDITIONAL INFORMATION.
23. NEW NORDOCK PIT DOCK LEVELER MODEL CH. GC TO VERIFY IN FIELD EXACT SIZE REQUIRED TO MATCH EXISTING, INSTALL PER MANUFACTURER'S REQUIREMENTS. CONTACT NATIONAL ACCOUNT MANAGER RICK GABLE (414-234-8732, RICK.GABLE@4FRONTES.COM) FOR ADDITIONAL INFORMATION.
24. SLEEP CENTER BUMPOUT TO BE 12" DEEP & 12'-0" TALL. 3⅝" 20 GAUGE METAL STUD @ 16" O.C. WITH ⅝" GYPSUM BOARD BRACED TO WALL AT MID POINT AND TOP. BUMPOUT TO BE PAINTED P-3. TOP OF BUMPOUT TO BE LEFT OPEN NO LID ON TOP.
25. EXISTING WALL TO REMAIN. PATCH AND REPAIR EXISTING GYPSUM AS REQUIRED TO LEVEL 4 FINISH (READY TO PAINT).
26. GC TO INSTALL (2) EYE BOLTS INTO THE WALL TO SECURE LADDERS WITH CHAIN WITH HASPS TO CONNECT THE CHAIN TO THE EYE BOLTS. EYE BOLTS TO BE INSTALLED AT 6'-0" AFF AND BE 3'-0" APART. PROVIDE BLOCKING IN WALL AT LOCATIONS OF EYE BOLTS.
27. NEW WALL TO ALIGN WITH EXISTING COLUMN SURROUND.
28. HANGING SOFFIT WALL TO ENCLOSE UNUSED AREA RE: CEILING PLAN.
29. 4' HIGH LOW WALL INFILL AT REMOVAL OF EXISTING PREVIOUS TENANT DISPLAY. 3⅝" 20 GA METAL STUDS AT 16" O.C. WITH GWB ON EACH SIDE TO MATCH EXISTING LOW WALL. GC TO VIF. EXISTING RAILING AND GLASS TO DIE INTO NEW LOW WALL. REPAIR EXISTING GYPSUM AS REQUIRED.
30. 1 HOUR RATED COLUMN BOX OUT TO MATCH EXISTING.
31. EXISTING OPENING TO BE INFILLED WITH METAL DECK AND CONCRETE TO MATCH EXISTING OR WALL OFF EXISTING FLOOR OPENING FROM FLOOR TO CEILING. COORDINATE EXACT SCOPE WITH BDF CONSTRUCTION PROJECT MANAGER AT TIME OF WALKTHRU.
32. NEW 4" SIDEWALK WITH 6x6 W1.4xW1.4 WWF REINFORMENT CONNECT TO EXISTING SIDEWALK. PROVIDE 8" COMPACTED SUB-BASE AS REQUIRED. GRADES TO BE COORDINATED IN FIELD. REMOVE EXISTING LANDSCAPING AS REQUIRED.

PARTITION TYPES

SYMBOL	DESCRIPTION
	EXISTING EXTERIOR WALL, PRECAST OR CMU WALL TO REMAIN
	SALES FLOOR PERIMETER FURRING. WALL TO BE LEVEL 4 FINISH (READY TO PAINT).
	EXISTING STEEL STUD & GWB WALL OR FURRING. PATCH AND REPAIR AS REQUIRED FOR SMOOTH PAINT FINISH. EXTEND GWB TO DECK ON OPEN SIDE OF WALL.
	INFILL EXISTING OPENING WITH CMU/BRICK TO MATCH EXISTING.
	20 GAUGE METAL STUDS @ 16" O.C. & 5/8" GWB PARTITION OR WALL FURRING TO 6" ABOVE HIGHEST ADJACENT CEILING. SEE FINISH SCHEDULE FOR FINISH & REFER TO ENLARGED PLANS FOR FRT BLOCKING REQUIREMENTS. BRACE WALL TO STRUCTURE ABOVE AS REQUIRED FOR RIGID CONSTRUCTION. PROVIDE 5/8" CEMENT TILE BACKER BOARD AT AREAS SCHEDULED TO RECEIVE TILE. REFER TO INTERIOR ELEVATIONS FOR EXACT TILE LOCATIONS.
	18 GAUGE METAL STUDS @ 16" O.C. WALLS TO BOTTOM OF DECK ABOVE. EXTEND 5/8" GWB TO DECK ON OPEN GRID SIDE OF WALL AND EXTEND 5/8" GWB TO 6" ABOVE CEILING ON CONCEALED SIDE WHERE APPLICABLE. AT MANAGERS OFFICE AND DATA ROOM EXTEND GWB FULL HEIGHT.
	SALES FLOOR AREA DISPLAY PARTITION. HEIGHT VARIES, SEE SCHEDULE. REFER TO SHEET A8.2 FOR DISPLAY PARTITION DETAILS.
	PLYWOOD SHEATHING OVER GWB TO 48" A.F.F.

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PROJECT NUMBER
26-91020

DATE
08/14/2026

SHEET TITLE
FIRST FLOOR CONSTRUCTION PLAN

SHEET NUMBER
A1.0A

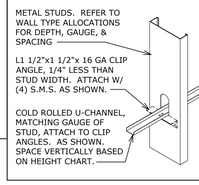
DISPLAY PARTITION SCHEDULE

SYMBOL	DESCRIPTION	LOCATION	REMARKS
P-1	HALF HEIGHT PARTITION - 6'-0" A.F.F. SEE SECTIONS 1/A8.2. 3 5/8" X 20 GA. MTL STUDS @ 16" O.C. W/ ONE LAYER 5/8" G.W.B. EACH SIDE & EDGES.	BEDROOMS SLEEP CENTER	PROVIDE ADDITIONAL STEEL SUPPORT; SEE DETAIL 3/A8.2
P-2	HALF HEIGHT PARTITION - 4'-0" A.F.F. SEE SECTIONS 1/A8.2. 3 5/8" X 20 GA. MTL STUDS @ 16" O.C. W/ ONE LAYER 5/8" G.W.B. EACH SIDE & EDGES.	UPHOLSTERY/ MOTION/ LEATHER	PROVIDE ADDITIONAL STEEL SUPPORT; SEE DETAIL 3/A8.2
P-3	HALF HEIGHT PARTITION - 3'-6" A.F.F. SEE SECTIONS 1/A8.2. 3 5/8" X 20 GA. MTL STUDS @ 16" O.C. W/ ONE LAYER 5/8" G.W.B. EACH SIDE & EDGES.	UPHOLSTERY/ MOTION/ LEATHER	PROVIDE ADDITIONAL STEEL SUPPORT; SEE DETAIL 3/A8.2

INTERIOR FRAMING

- 5" NOMINAL WALL THICKNESS = 5/8" GWB EA SIDE OF 3⅝" 18 GAUGE METAL (362S125-43) STUDS @ 16" O.C. WHERE EXTENDED TO ROOF DECK. WHERE 3⅝" STUDS STOP ABOVE FINISHED CEILINGS 20 GAUGE STUDS (362S125-33) ARE ACCEPTABLE.
- 7" NOMINAL WALL THICKNESS = 5/8" GWB EA SIDE OF 6" 18 GAUGE METAL (600S125-43) STUDS @ 16" O.C. WHERE EXTENDED TO ROOF DECK.
- EXTEND GWB AT EXISTING AND NEW PARTITIONS TO MIN 6" ABOVE FINISHED CEILING PLAN AND TO DECK ABOVE WHERE NO FINISHED CEILING OR AN OPEN CEILING GRID IS PRESENT AND FULL HEIGHT AT MANAGERS OFFICE AND DATA ROOM.
- REFER TO PARTITION HEIGHT LEGEND FOR HEIGHT OF STUDS ABOVE FINISHED FLOOR.
- PROVIDE BATT/SOUND PROOFING INSULATION AT RESTROOM AND OFFICE WALLS.
- PROVIDE POLYISO RIGID INSULATION AT PERIMETER EXTERIOR WALLS AS NOTED.

HORIZONTAL STUD BRACING REQ.



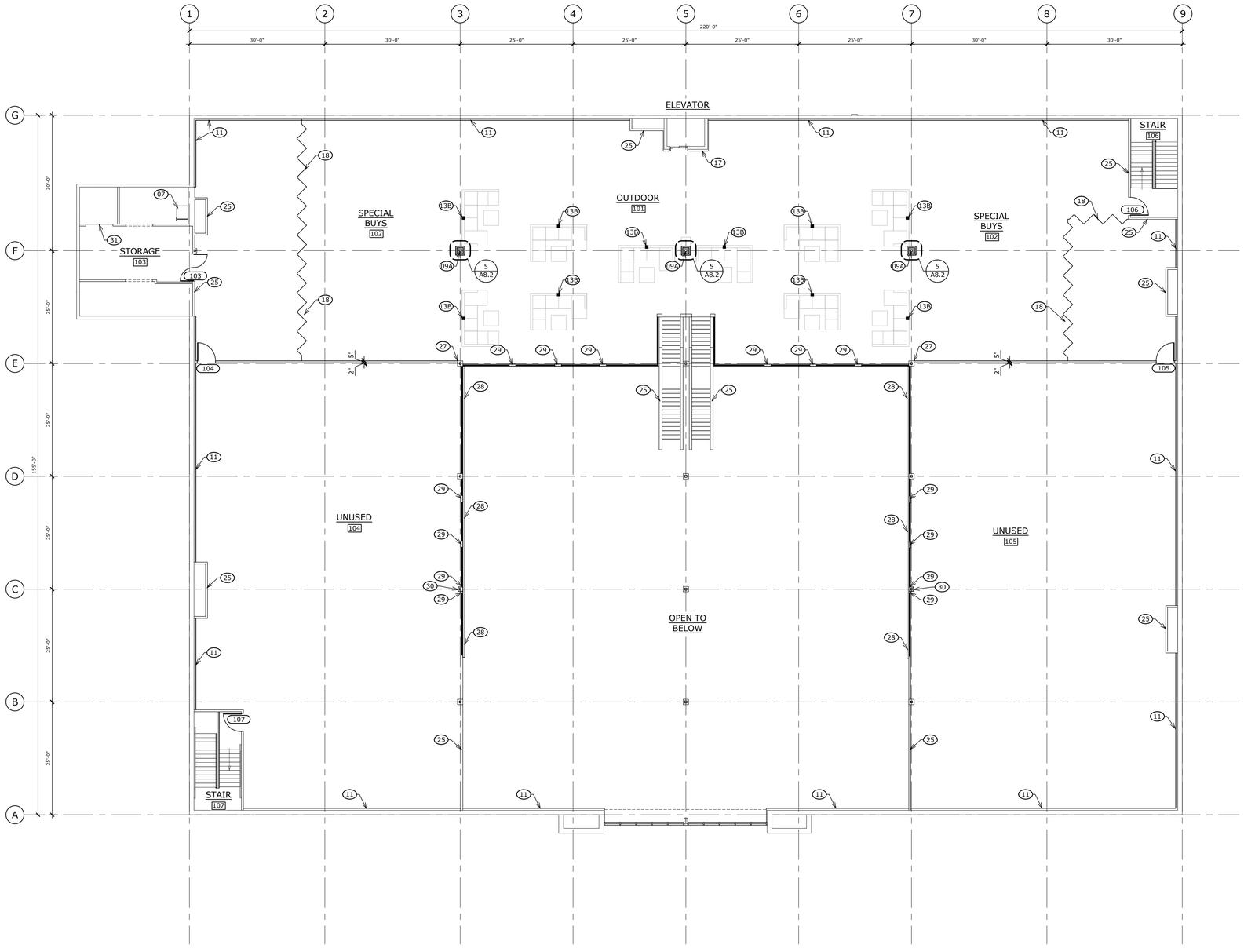
MAX WALL HEIGHT	# OF BRIDGING ROWS	BRIDGING LOCATION
10'-0" TO 14'-0"	ONE	AT MID SPAN
14'-0" TO 18'-0"	TWO	AT THIRD PTS
18'-0" TO 22'-0"	THREE	AT QUARTER PTS
ABOVE 22'-0"	FIELD VERIFY	EQUAL SPACING

NOTE: PROVIDE BRIDGING ONLY IF ONE OR BOTH SIDES OF STUD HAS NO CONTINUOUS WALL SHEATHING.

GENERAL NOTES

A. DO NOT SCALE THESE PRINTS - USE PLAN DIMENSIONS AS NOTED. CALL ARCHITECT REGARDING ANY DISCREPANCIES.
B. ALL INTERIOR GWB PARTITIONS MEASURED FROM FACE OF GWB U.N.O.
C. ALL PERIMETER WALLS MEASURED FROM INTERIOR FACE OF EXISTING WALL.
D. ALL HALF-HEIGHT PARTITIONS MEASURED FROM FACE OF GWB.
E. VERIFY LOCATION OF ALL DRAINS ON PLUMBING PLAN.
F. PROVIDE WALL WATERPROOFING IN RESTROOM.
G. SEE RCP FOR ALL CEILING INFO (SHEET A2.0)
H. REFER TO SHEET A8.2 FOR ALL DISPLAY PARTITIONS IN SALES AREA.
J. PROVIDE TILE BACKER BOARD AT ALL AREAS SCHEDULED TO HAVE TILE FINISH (M.R. GWB NOT ACCEPTABLE). PROVIDE MOISTURE RESISTANT GYPSUM BOARD ELSEWHERE IN TOILET & JANITOR ROOMS.
K. PROVIDE FRT WOOD BLOCKING IN PARTITIONS FOR: ROBE HOOKS, CHANGING STATIONS, BULLETIN BOARDS, LOCKERS, MIRRORS, RECESSED WALL LIGHTING, HANDRAILS, GRAB BARS, LADDERS, COUNTERTOPS, ETC. REFER TO CODE ANALYSIS ON SHEET GN-1 FOR FIRE RETARDANT TREATMENT REQUIREMENTS.
L. PROVIDE SLIP DEFLECTION TRACK FOR ALL PARTITIONS EXTENDING TO DECK ABOVE.
M. ALL COLUMN FRAMING & COLUMN CAPITALS SHALL ALIGN WITH THE CEILING\DECK (DO NOT INSTALL AT 45 DEGREES).
N. PROVIDE BRACING AS REQ'D FOR ALL INTERIOR STUD FRAMED WALLS THAT STOP SHORT OF ROOF DECK /STRUCTURE. BACK TO SUITABLE STRUCTURE. PROVIDE COLD FORMED CHANNELS VERTICALLY THRU STUD KNOCKOUTS AS REQUIRED.
O. GYPSUM BOARD CONTROL JOINTS 30'-0" O.C. MAX. AND ALL CORNERS OF DOORS, WINDOWS AND FRAMED OPENINGS
P. PROVIDE METAL CORNER BEAD AT ALL GYP. BOARD. OUTSIDE CORNERS. TAPE, SAND, AND PREP AS REQUIRED.
Q. PROVIDE METAL J-BEAD AT ALL EXPOSED GYP. BD. ENDS. TAPE, SAND, AND PREP AS REQUIRED.
R. ALL FURRING TO RUN VERTICAL.
S. CONTRACTOR TO SEAL ALL NEW PIPE, DUCT, AND JOIST PENETRATIONS THRU FIRE RATED WALLS. PROVIDE 3M FIRE PRODUCTS, AND INCLUDE COLLARS ON PLASTIC PIPES OVER 2" IN DIAMETER.
T. FINISH FLOOR ELEVATION (0'-0") IS FOR REFERENCE ONLY.
U. N/A
V. CAULK ALL PENETRATIONS AND OPENINGS TO PREVENT WATER AND AIR INFILTRATION.
W. DURING CONSTRUCTION PORTABLE FIRE EXTINGUISHERS SHALL BE ON SITE IN EVERY STORAGE AND CONSTRUCTION SHED AND WHERE SPECIAL HAZARDS EXIST.
X. ALL NON-COMPOSITE PARTITIONS EXTENDING TO DECK, WITH A BOTTOM OF DECK ELEVATION AT OR GREATER THAN 23'-0", SHALL INCLUDE BRACING @ 48" O.C. ABOVE FINISHED CEILING TO THE ROOF DECK.

NOTE:
ALL MONOKOTE FIREPROOFING THAT IS MISSING OR MODIFIED DUE TO NEW LAYOUT OF WALLS TO BE PROPERLY PATCHED BACK.



NORTH

KEYED NOTES

01. NEW GALT DISPLAY RACK RUG GALLERY FREESTANDING DISPLAY. OWNER FURNISHED OWNER INSTALLED.
02. ⅝" FRT PLYWOOD FROM FLOOR TO 4'-0" A.F.F. ALONG STUD WALLS IN RECEIVING AREA IF NOT EXISTING.
03. LINE OF GWB SOFFIT OR BULKHEAD ABOVE. RE: A2.0 FOR HEIGHT A.F.F.
04. 5/8" FIRE TREATED PLYWOOD TO 9'-0" A.F.F.; ONLY ON INTERIOR OF DATA ROOM.
05. 6"Ø PVC TUBE & WALL MOUNTED FOLDER HOLDER BY G.C. FOR DRAWINGS AND DOCUMENT STORAGE. LOCATION IN ROOM TO BE VERIFIED WITH BOBS CM.
06. NOT USED
07. EXISTING ROOF HATCH, LADDER, AND NEW SAFETY BAR CAGE. REFER TO SHEET A8.3. CONTACT NATIONAL ACCOUNT MANAGER MICHELE ORAS (800-770-8851 (OFFICE), 734-812-2740 (CELL), MICHELE@LADDERPORT.COM) FOR ADDITIONAL INFORMATION.
08. DISPLAY PARTITION - REFER TO DISPLAY PARTITION SCHEDULE AND SHEET A8.2 FOR DETAILS (P-#)
09A. EXISTING STEEL COLUMN AND FIRE RATED FURRING. FRAME AROUND PER PLAN (24"x24") REFER TO SHEET A8.2.
09B. NEW (24"x24") LOW WALL IN LINE WITH COLUMN GRID REFER TO SHEET A8.2.
10. DISPLAY WALL END WALL SUPPORT (LOW WALLS) TYPICAL EACH END. REFER TO DETAILS ON SHEET A8.2.
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PARTITION TYPES

SYMBOL	DESCRIPTION
	EXISTING EXTERIOR WALL, PRECAST OR CMU WALL TO REMAIN
	SALES FLOOR PERIMETER FURRING. WALL TO BE LEVEL 4 FINISH (READY TO PAINT).
	EXISTING STEEL STUD & GWB WALL OR FURRING. PATCH AND REPAIR AS REQUIRED FOR SMOOTH PAINT FINISH. EXTEND GWB TO DECK ON OPEN SIDE OF WALL.
	INFILL EXISTING OPENING WITH CMU/BRICK TO MATCH EXISTING.
	20 GAUGE METAL STUDS @ 16" O.C. & 5/8" GWB PARTITION OR WALL FURRING TO 6" ABOVE HIGHEST ADJACENT CEILING. SEE FINISH SCHEDULE FOR FINISH & REFER TO ENLARGED PLANS FOR FRT BLOCKING REQUIREMENTS. BRACE WALL TO STRUCTURE ABOVE AS REQUIRED FOR RIGID CONSTRUCTION. PROVIDE 5/8" CEMENT TILE BACKER BOARD AT AREAS SCHEDULED TO RECEIVE TILE. REFER TO INTERIOR ELEVATIONS FOR EXACT TILE LOCATIONS.
	18 GAUGE METAL STUDS @ 16" O.C. WALLS TO BOTTOM OF DECK ABOVE. EXTEND 5/8" GWB TO DECK ON OPEN GRID SIDE OF WALL AND EXTEND 5/8" GWB TO 6" ABOVE CEILING ON CONCEALED SIDE WHERE APPLICABLE. AT MANAGERS OFFICE AND DATA ROOM EXTEND GWB FULL HEIGHT.
	SALES FLOOR AREA DISPLAY PARTITION. HEIGHT VARIES, SEE SCHEDULE. REFER TO SHEET A8.2 FOR DISPLAY PARTITION DETAILS.
----	PLYWOOD SHEATHING OVER GWB TO 48" A.F.F.

1 SECOND FLOOR CONSTRUCTION PLAN

SCALE: 3/32" = 1'-0"

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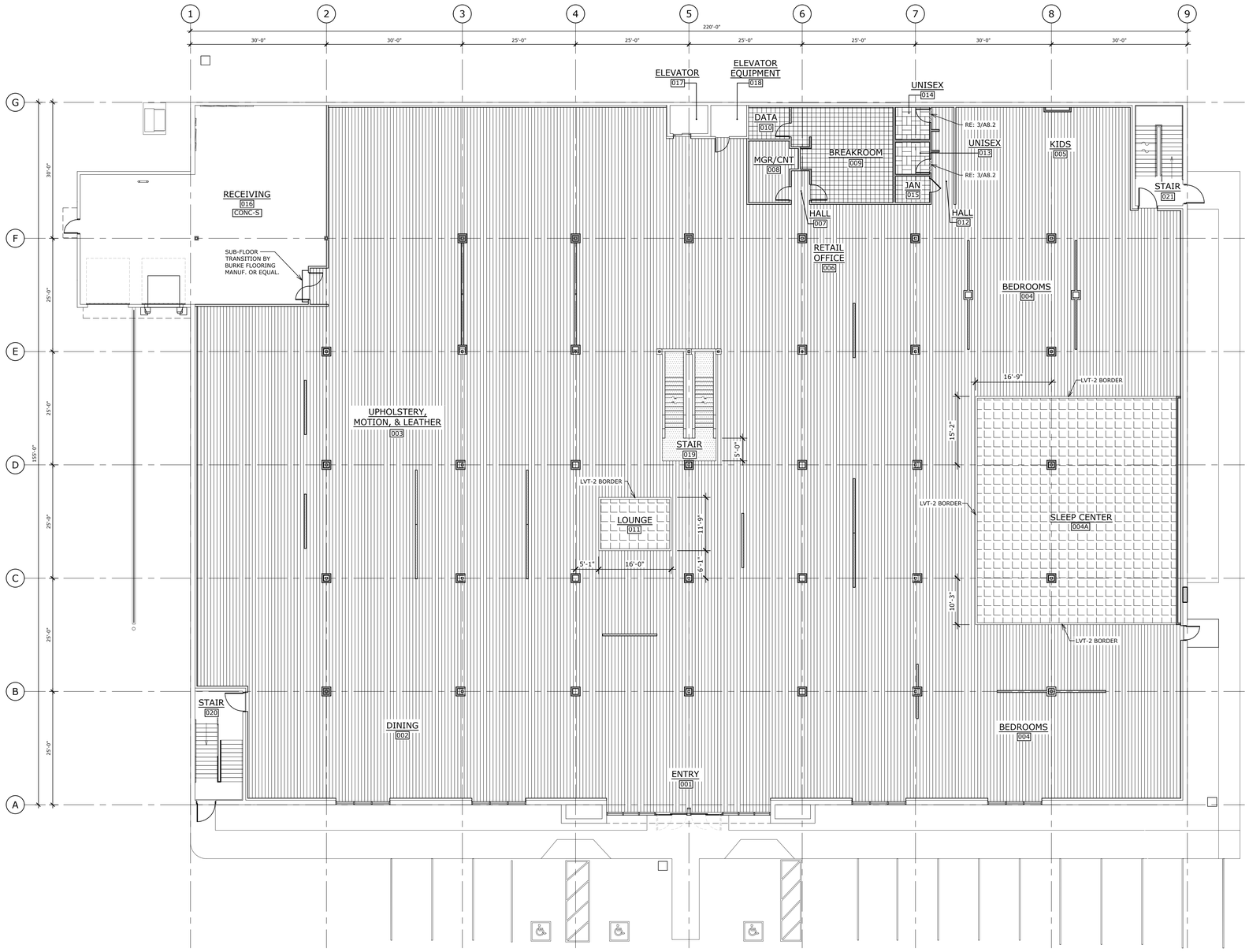
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PROJECT NUMBER
26-91020

DATE
08/14/2026

SHEET TITLE
SECOND FLOOR CONSTRUCTION PLAN

SHEET NUMBER
A1.0B



1 FIRST FLOOR FINISH PLAN — SCALE: 3/32" = 1'-0"

GENERAL NOTES

1. ALL INTERIOR FINISHES SHALL BE MINIMUM CLASS "C" MATERIALS W/ FLAME SPREAD RATING OF 0-75. SMOKE DEVELOPMENT 0-450. CONTRACTOR TO PROVIDE LAB TEST CERTIFICATES FROM MANUFACTURER OF SAME TO AUTHORITIES IF REQUIRED.
2. G.C. TO VERIFY AND ENSURE THAT SUB-FLOOR IS SOUND, TROWEL FINISHED SMOOTH, LEVEL & READY TO ACCEPT FINISH FLOORING MATERIALS - SEE SPEC SHEETS FOR ADDITIONAL INFO. FLOOR LEVELING AND/OR PREP WILL BE REQUIRED.
3. RAISE ALL FLOOR DRAINS & CLEAN OUTS TO NEW FINISH FLOOR LEVEL AND SLOPE TO DRAIN LOCATIONS TYP.
4. TRANSITION STRIPS TO BE PROVIDED AT ALL UNLIKE FLOORING MATERIALS.
5. G.C. TO MEASURE AND VERIFY DIMENSIONS. ANY DISCREPANCIES MUST BE REPORTED TO ARCHITECT BEFORE ANY FINISH FLOOR INSTALLATION CAN COMMENCE.
6. ALL CERAMIC FLOOR TILE IS TO BE PROTECTED IMMEDIATELY UPON INSTALLATION W/ 1/4" MASONITE BOARD, DUCT TAPED AT ALL EDGES. ALL TAPE & ADHESIVE RESIDUE ON TILE TO BE REMOVED & ALL TILE TO BE POLISHED BEFORE GRAND OPENING.
7. ANY DAMAGED FLOOR TILE SHALL BE REPLACED AT THE GENERAL CONTRACTORS EXPENSE - SEE GENERAL CONDITIONS FOR ADDITIONAL INFO.
8. INSTALL ALL PROPOSED FINISHES PER MANUFACTURER RECOMMENDATIONS.
9. SEE SHEET A8.0 FOR ROOM FINISH SCHEDULES AND OTHER INFORMATION ASSOCIATED WITH FLOORING LEGEND.

FLOORING LEGEND

- LVT-1 — LUXURY VINYL TILE
- LVT-2 — LUXURY VINYL TILE
- VCT-1 — VINYL TILE
- PT-1 — PORCELAIN TILE
- CPT-1 CARPET — ENTRY MAT SQUARES
- STAIR-1 — STAIR TREADS

2 FLOORING TRANSITION — SCALE: NTS

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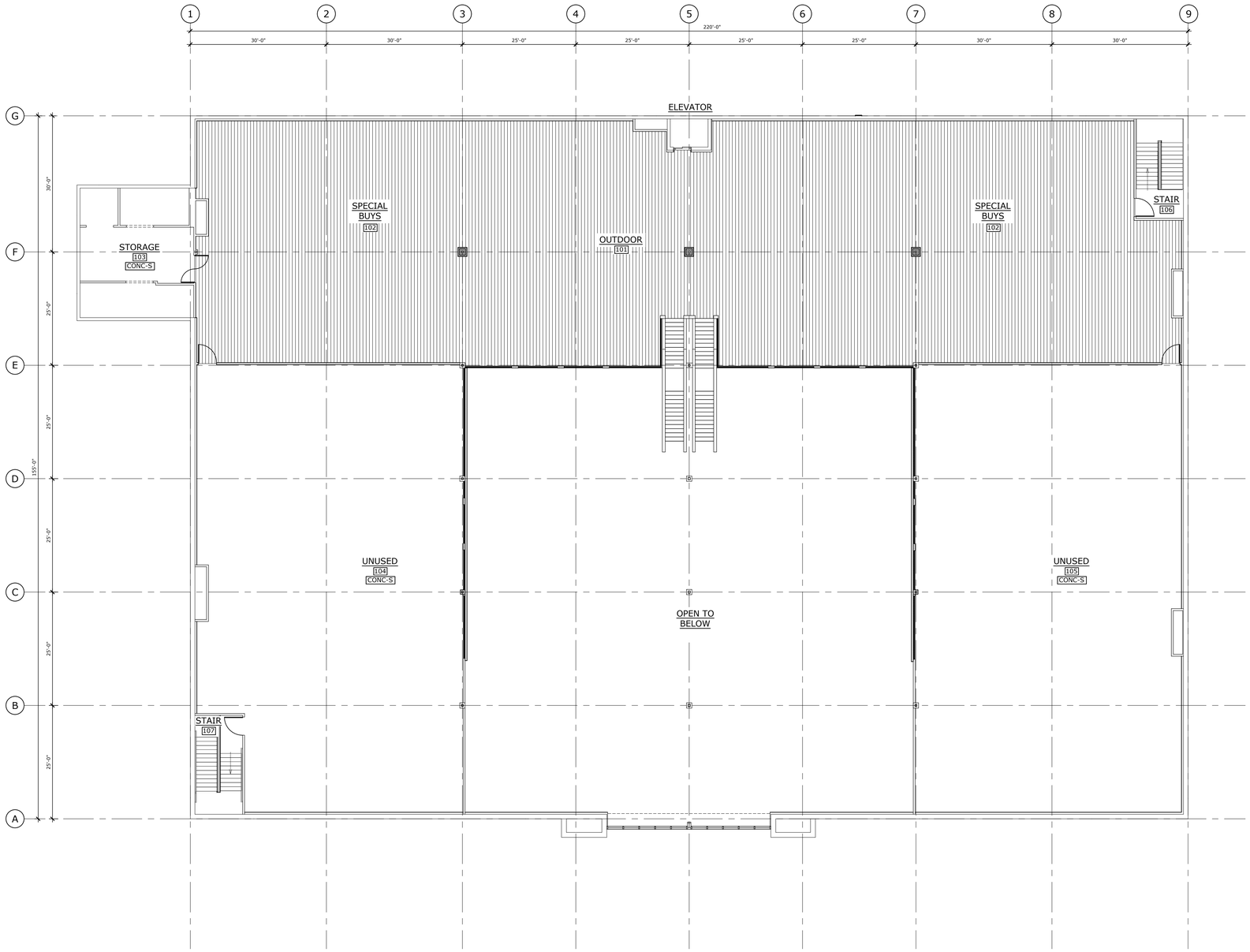
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PROJECT NUMBER
26-91020

DATE
08/14/2026

SHEET TITLE
FIRST FLOOR FINISH PLAN

SHEET NUMBER
A1.1A



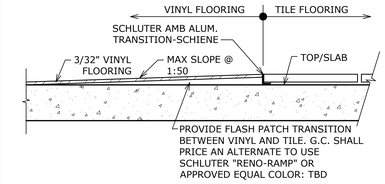
1 SECOND FLOOR FINISH PLAN — SCALE: 3/32" = 1'-0"

GENERAL NOTES

1. ALL INTERIOR FINISHES SHALL BE MINIMUM CLASS "C" MATERIALS W/ FLAME SPREAD RATING OF 0-75. SMOKE DEVELOPMENT 0-450. CONTRACTOR TO PROVIDE LAB TEST CERTIFICATES FROM MANUFACTURER OF SAME TO AUTHORITIES IF REQUIRED.
2. G.C. TO VERIFY AND ENSURE THAT SUB-FLOOR IS SOUND, TROWEL FINISHED SMOOTH, LEVEL & READY TO ACCEPT FINISH FLOORING MATERIALS - SEE SPEC SHEETS FOR ADDITIONAL INFO. FLOOR LEVELING AND/OR PREP WILL BE REQUIRED.
3. RAISE ALL FLOOR DRAINS & CLEAN OUTS TO NEW FINISH FLOOR LEVEL AND SLOPE TO DRAIN LOCATIONS TYP.
4. TRANSITION STRIPS TO BE PROVIDED AT ALL UNLIKE FLOORING MATERIALS.
5. G.C. TO MEASURE AND VERIFY DIMENSIONS. ANY DISCREPANCIES MUST BE REPORTED TO ARCHITECT BEFORE ANY FINISH FLOOR INSTALLATION CAN COMMENCE.
6. ALL CERAMIC FLOOR TILE IS TO BE PROTECTED IMMEDIATELY UPON INSTALLATION W/ 1/4" MASONITE BOARD, DUCT TAPED AT ALL EDGES. ALL TAPE & ADHESIVE RESIDUE ON TILE TO BE REMOVED & ALL TILE TO BE POLISHED BEFORE GRAND OPENING.
7. ANY DAMAGED FLOOR TILE SHALL BE REPLACED AT THE GENERAL CONTRACTORS EXPENSE - SEE GENERAL CONDITIONS FOR ADDITIONAL INFO.
8. INSTALL ALL PROPOSED FINISHES PER MANUFACTURER RECOMMENDATIONS.
9. SEE SHEET A8.0 FOR ROOM FINISH SCHEDULES AND OTHER INFORMATION ASSOCIATED WITH FLOORING LEGEND.

FLOORING LEGEND

- LVT-1 — LUXURY VINYL TILE
- LVT-2 — LUXURY VINYL TILE
- VCT-1 — VINYL TILE
- PT-1 — PORCELAIN TILE
- CPT-1 CARPET — ENTRY MAT SQUARES
- STAIR-1 — STAIR TREADS



2 FLOORING TRANSITION — SCALE: NTS

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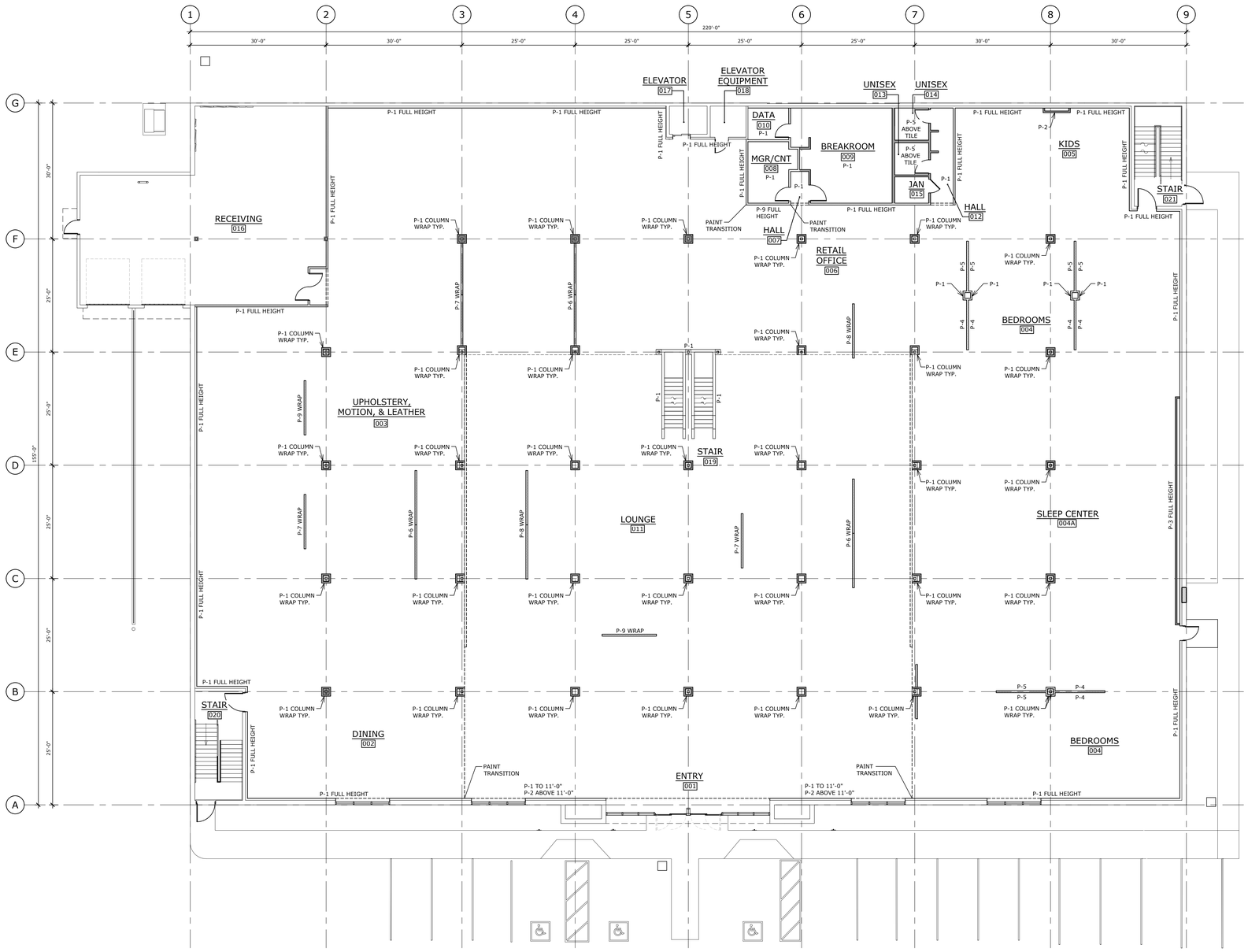
ISSUE DATES

TYPE	DATE
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PROJECT NUMBER 26-91020
DATE 08/14/2026
SHEET TITLE: SECOND FLOOR FINISH PLAN
SHEET NUMBER: A1.1B

GENERAL NOTES

1. ALL INTERIOR PAINT FINISHES ARE BENJAMIN MORE PAINT COLORS SEE FINISH LEGEND.
2. INSTALL ALL PROPOSED FINISHES PER MANUFACTURER RECOMMENDATIONS.
3. SEE SHEET A8.0 FOR ROOM FINISH SCHEDULES AND OTHER INFORMATION ASSOCIATED WITH PAINT FINISHES.



1 FIRST FLOOR PAINT FINISH PLAN

SCALE: 3/32" = 1'-0"

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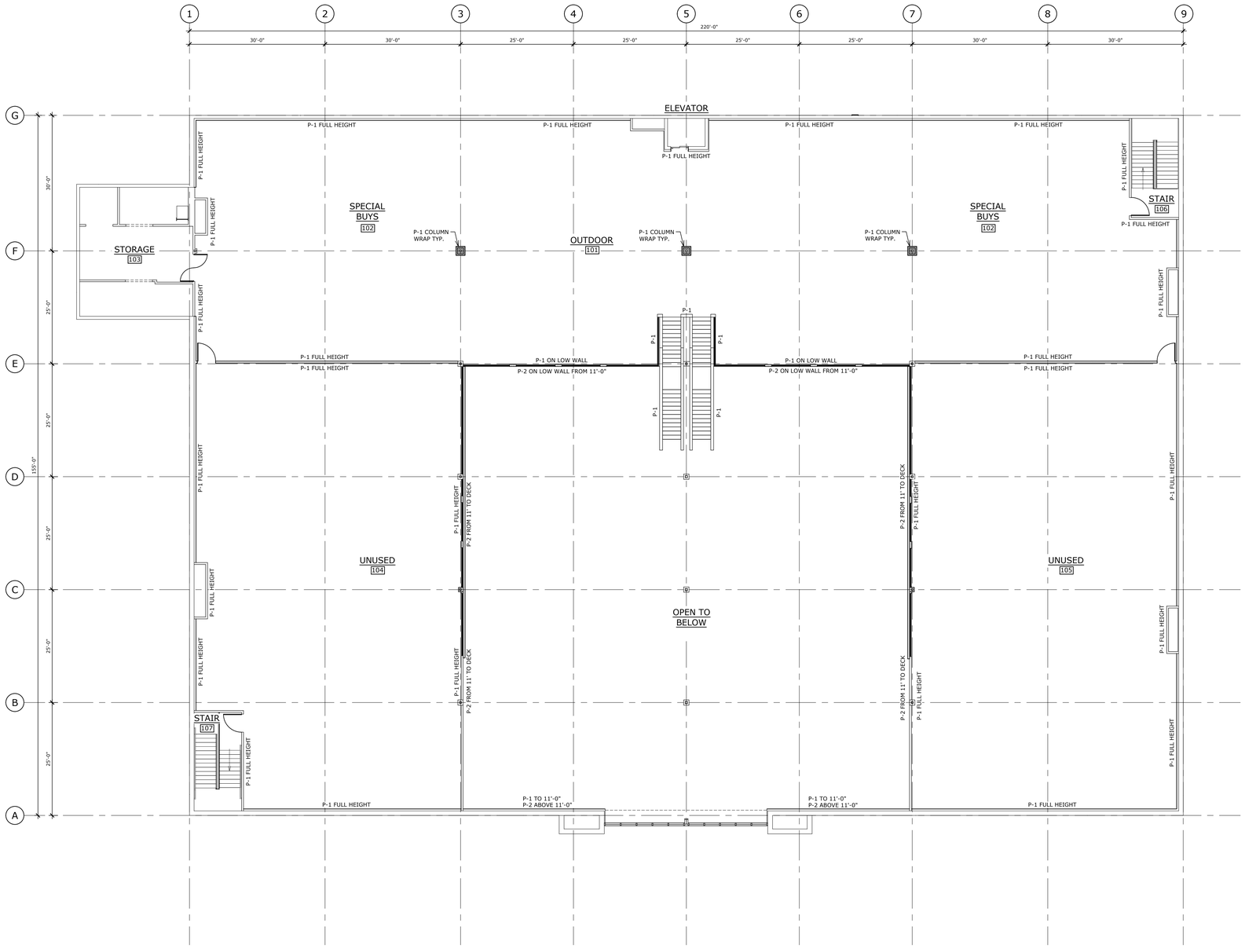
ISSUE DATES

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DRAWN BY
CHECKED BY
PROJECT NUMBER 26-91020
DATE 08/14/2026
SHEET TITLE FIRST FLOOR PAINT FINISH PLAN
SHEET NUMBER A1.2A

GENERAL NOTES

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2. INSTALL ALL PROPOSED FINISHES PER MANUFACTURER RECOMMENDATIONS.
3. SEE SHEET A8.0 FOR ROOM FINISH SCHEDULES AND OTHER INFORMATION ASSOCIATED WITH PAINT FINISHES.



NORTH

SCALE: 3/32" = 1'-0"

1 SECOND FLOOR PAINT FINISH PLAN

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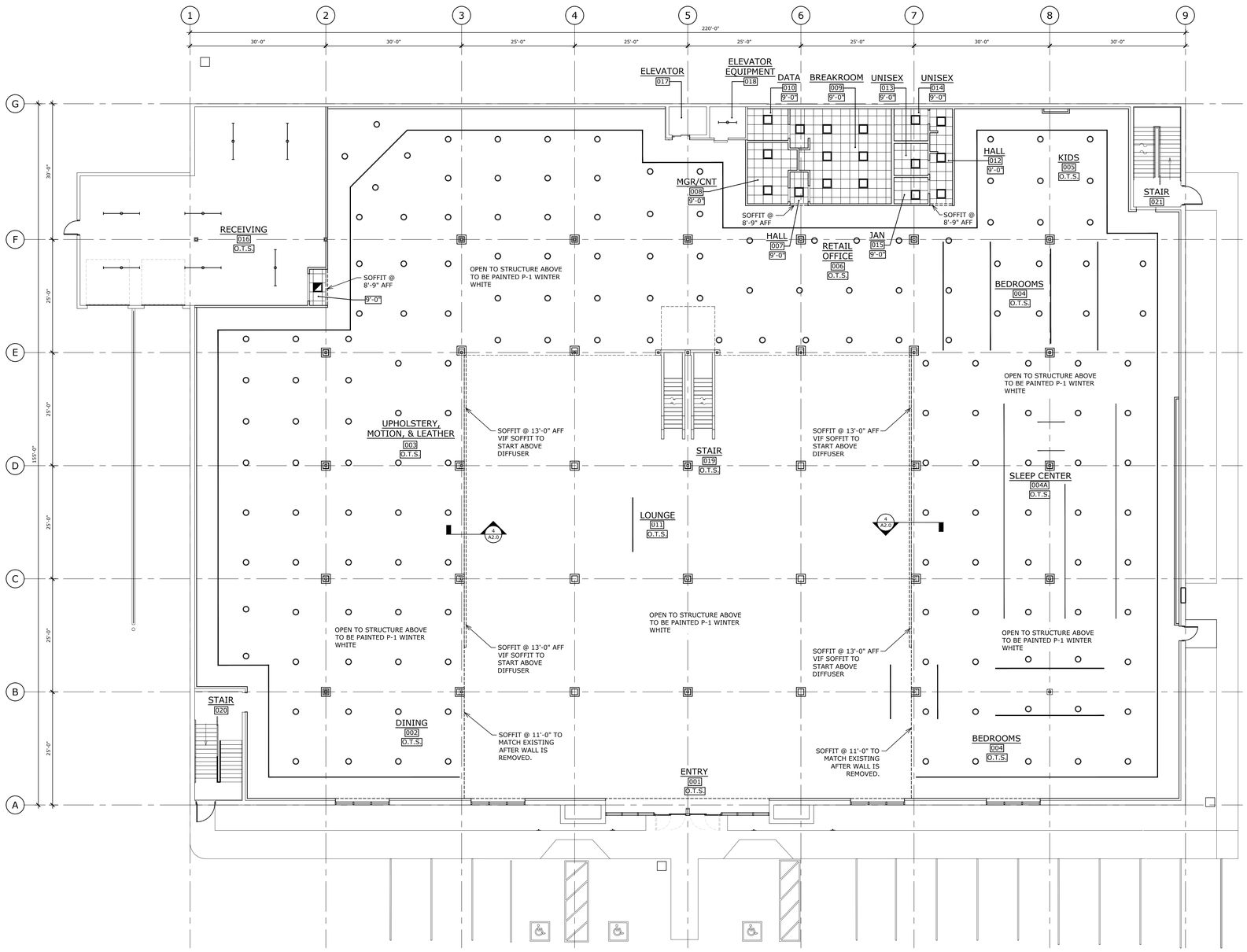
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SHEET TITLE
SECOND FLOOR PAINT FINISH PLAN

SHEET NUMBER
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NORTH

1 FIRST FLOOR REFLECTED CEILING PLAN SCALE: 3/32" = 1'-0"

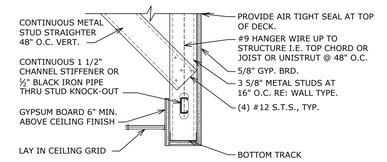
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16. GYPSUM BOARD CONTROL JOINTS 30'-0" O.C. MAX.

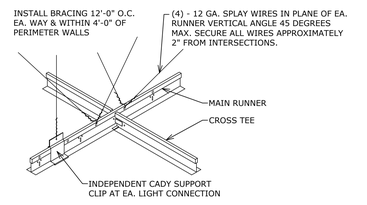
RCP LEGEND

ACT-1, ACT-2

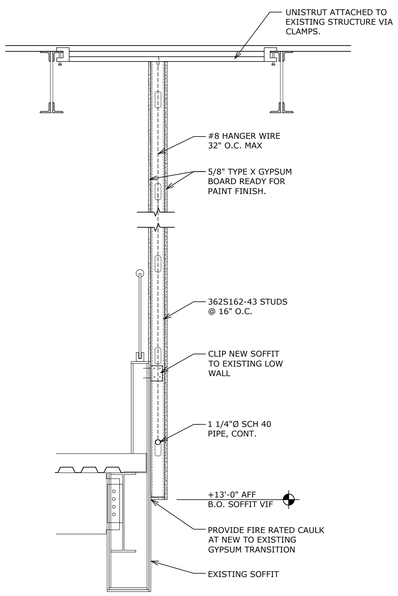
- PENDANT FIXTURE
- STRIP FIXTURE
- RECESSED SPOTLIGHT
- TRACK LIGHTING
- 2x2 PARABOLIC



2 TYPICAL SOFFIT DETAIL SCALE: NTS



3 CEILING GRID DETAIL SCALE: NTS



4 SOFFIT DETAIL SCALE: NTS

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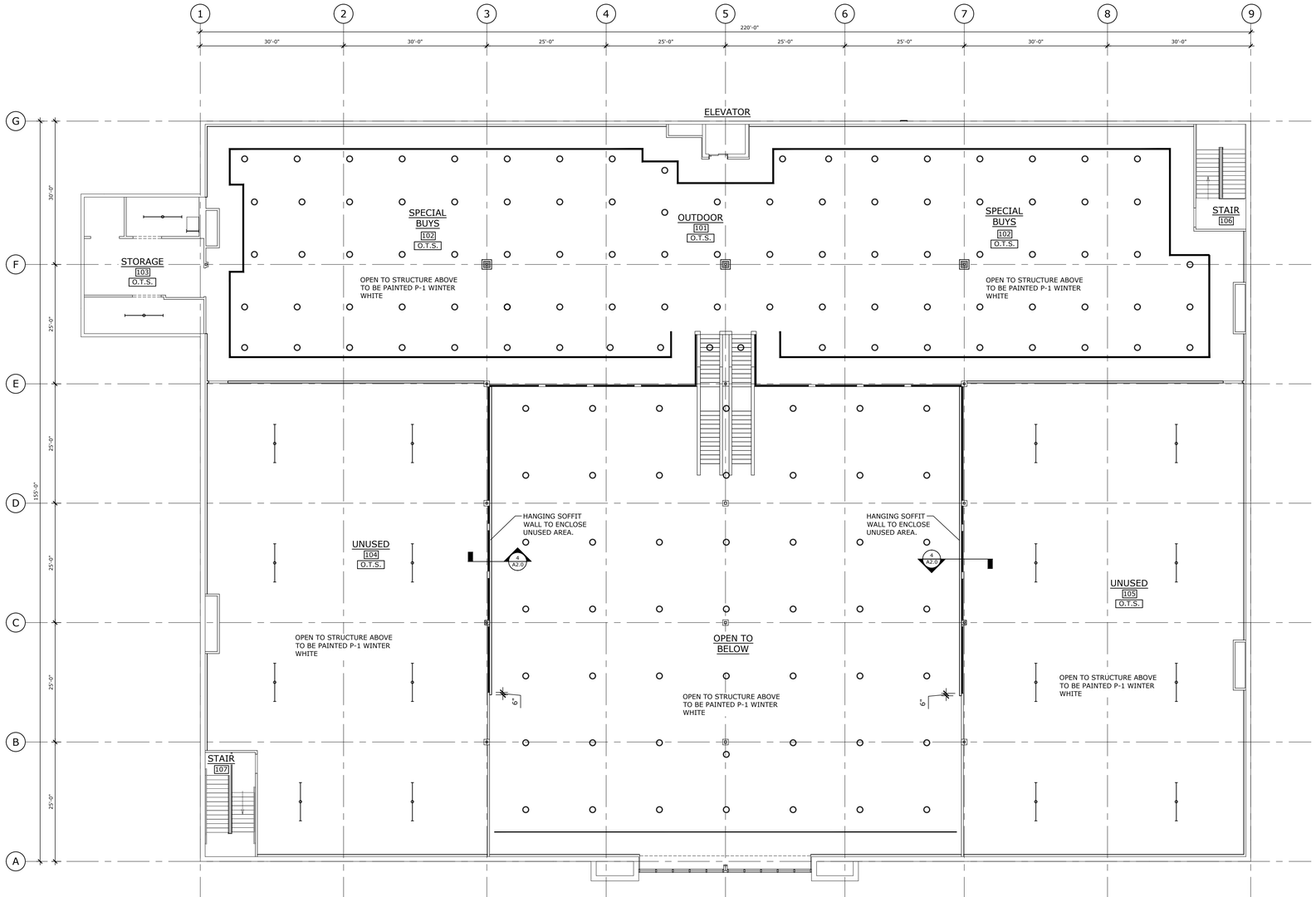
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08/14/2026

SHEET TITLE
FIRST FLOOR REFLECTED CEILING PLAN

SHEET NUMBER
A2.0A



1 SECOND FLOOR REFLECTED CEILING PLAN SCALE: 3/32" = 1'-0"

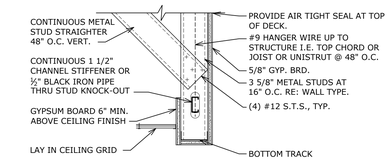
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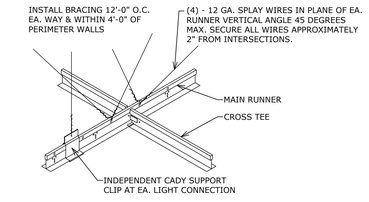
RCP LEGEND

ACT-1, ACT-2

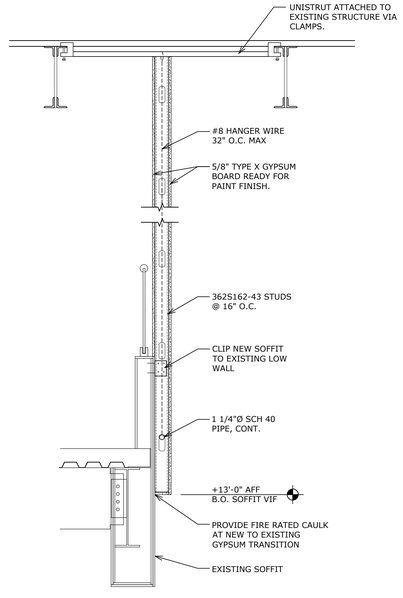
PENDANT FIXTURE
STRIP FIXTURE
RECESSED SPOTLIGHT
TRACK LIGHTING
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2 TYPICAL SOFFIT DETAIL SCALE: NTS



3 CEILING GRID DETAIL SCALE: NTS



4 SOFFIT DETAIL SCALE: NTS

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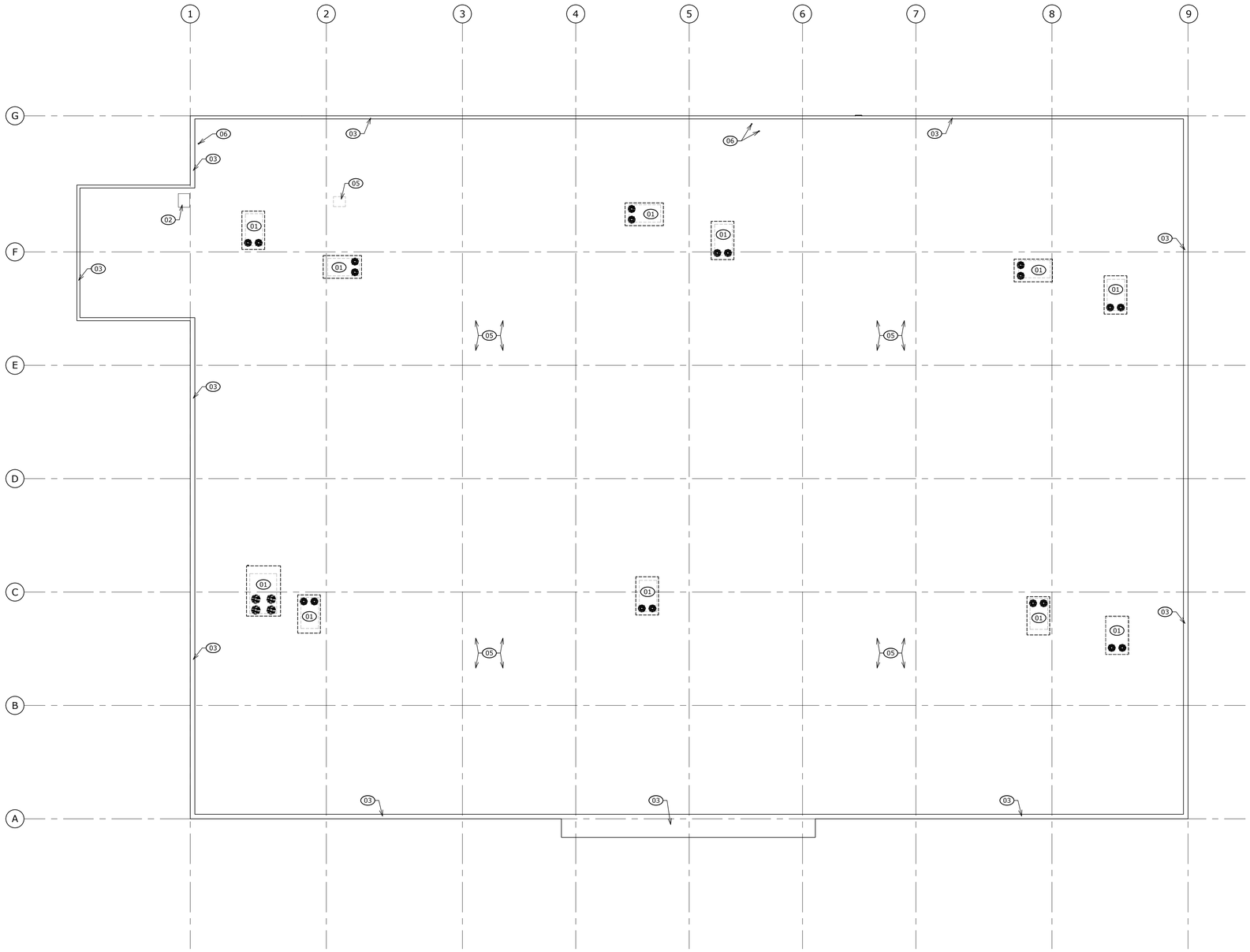
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SHEET TITLE SECOND FLOOR REFLECTED CEILING PLAN
SHEET NUMBER A2.0B



NORTH

1 ROOF PLAN

SCALE: 3/32" = 1'-0"

GENERAL NOTES

1. ROOF AND EQUIPMENT MAY BE EXISTING AND SHOWN ONLY FOR MINOR TENANT BUILD-OUT COORDINATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR BECOMING FAMILIAR WITH THE EXISTING PREMISES AND PROVIDE PRICING FOR ALL WORK QUALIFIED.
2. PROPOSED ROOFING MODIFICATIONS TO EXISTING ROOFING SYSTEM TO BE COMPLETED BY A QUALIFIED AND/OR APPROVED INSTALLER /ROOF CONTRACTOR. G.C. TO COORDINATE ANY LANDLORD REQUIRED ROOFING CONTRACTORS AT TIME OF BID. REGARDLESS ALL NEW ROOFING WORK SHALL BE WARRANTED AND SHALL NOT NEGATIVELY IMPACT EXISTING SYSTEMS THAT ARE TO REMAIN.
3. CONTRACTOR TO VERIFY & COORDINATE NEW EQUIPMENT LOCATIONS WITH M.E.P. SHEETS AND ALL EXISTING STRUCTURAL ELEMENTS. CONTACT BOBS CONSTRUCTION MANAGER WITH QUESTIONS AND VERIFICATION OF FINAL EQUIPMENT LOCATIONS.
4. PRE-FABRICATED CURBS SHALL BE FURNISHED AND INSTALLED BY GENERAL CONTRACTOR AND SET LEVEL. PATCH & FLASH INTO EXISTING ROOF.
5. NO PLUMBING VENTS OR EXHAUST UNITS WITHIN 10'-0" OF INTAKE. ADJUST AS REQUIRED TO AVOID CONFLICT.
6. COORDINATE ROOF CURBS WITH HVAC EQUIPMENT & INSTALL PER MANUF. SUGGESTION.
7. ALL ROOF OPENINGS GREATER THAN 12"x12" SHALL BE FRAMED WITH STEEL ANGLES.
8. MAINTAIN ALL ROOF PENETRATIONS 3'-0" OR GREATER FROM FLOW LINES.
9. ALL DIMENSIONS ARE FOR GENERAL ARRANGEMENT & LOCATION ONLY. ACTUAL REQUIREMENTS & DIMENSIONS SHOULD BE VERIFIED AND COORDINATED WITH EQUIPMENT, SHOP DRAWING SUBMITTALS AND STRUCTURAL FRAMING.
10. ALL 'NEW' EXPOSED EXTERIOR BUILDING MATERIALS TO BE U.V. RATED.
11. ALL CONDENSATE DRAIN CONNECTIONS, TRAPS AND PIPING TO DISCHARGE AWAY FROM UNITS. DISCHARGE TO DRAIN ONTO SPLASH BLOCKS, TYPICAL.
12. REFER TO SHEET D1.0 FOR ADDITIONAL DEMOLITION REQUIRED ON ROOF.
13. ALL REMOVED ROOF EQUIPMENT SHALL BE FULLY PATCHED TO MATCH EXISTING ROOFING SYSTEM.
14. PROVIDE CRICKET INSULATION AROUND EQUIPMENT CURBS TO PROVIDE PROPER DRAINAGE AROUND EQUIPMENT
15. ALL EQUIPMENT SUPPORTED BY CURBS SHALL BE MECHANICALLY ATTACHED TO CURBS. CURBS MUST BE MECHANICALLY ATTACHED TO STRUCTURE. NO GRAVITY CONNECTIONS.
16. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL ROOF PENETRATIONS.
17. GC IS TO INCLUDE IN THE BASE CONTRACT SCOPE TO REMOVE ALL PRIOR TENANT IMPROVEMENTS THAT ARE NOT SPECIFICALLY CALLED OUT IN THESE DRAWINGS TO BE REUSED, AND PATCH BACK TO THE ORIGINAL ADJACENT FLUSH FINISH CONDITIONS WHETHER KEY NOTED SPECIFICALLY OR NOT.

ROOF KEYNOTES

01 NEW ROOF TOP HVAC UNIT IN EXISTING LOCATION. SEE MECH DRAWINGS.

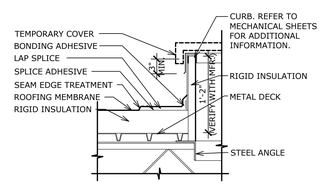
02 ROOF HATCH AND NEW CAGE. RE: A8.3 FOR DETAILS.

03 EXISTING PARAPET W/ STANDING SEAM AND ALUMINUM COPING/DRIP EDGE TYPICAL

04 NOT USED

05 REMOVE ALL UNUSED EQUIPMENT FROM PREVIOUS TENANT. REPAIR ROOFING MEMBRANE, INSULATION, & DECK TO MATCH EXISTING.

06 LOCATION OF THRU ROOF CONDUIT RE: ELECTRICAL DRAWINGS.



2 CURB DETAIL

SCALE: 1" = 1'-0"

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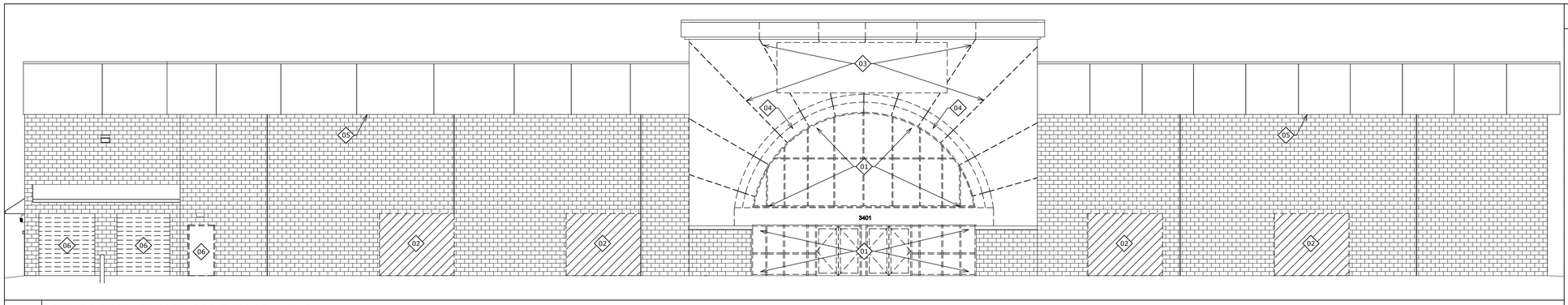
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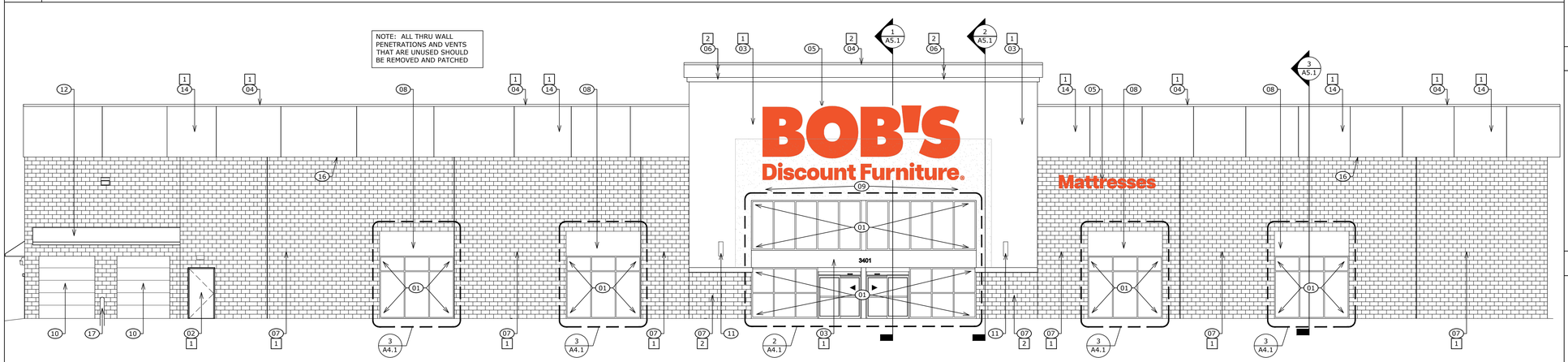
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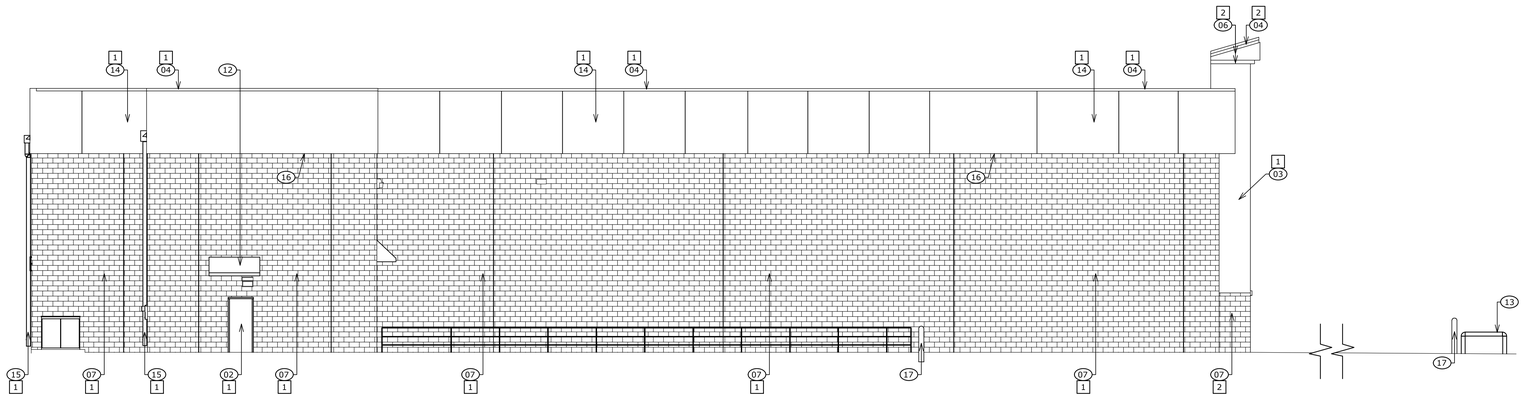
1 FRONT ELEVATION DEMOLITION

SCALE: ⅛" = 1'-0"



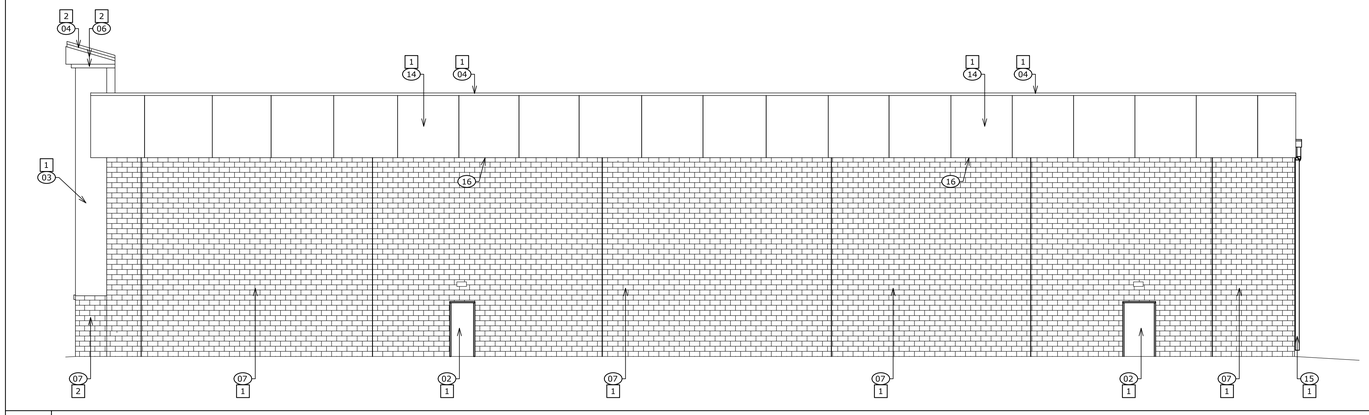
2 FRONT ELEVATION NEW

SCALE: ⅛" = 1'-0"



3 SIDE ELEVATION NEW

SCALE: ⅛" = 1'-0"



4 SIDE ELEVATION NEW

SCALE: ⅛" = 1'-0"

GENERAL NOTES

1. INSTALL CONTINUOUS SEALANT BEAD BETWEEN ALL UNLIKE MATERIALS.
2. PROVIDE SAFETY GLAZING AT DOORS, TRANSOM, SIDELITES, AND GLAZING 2'-0" ABOVE FIN GRADE. WINDOWS AND DOORS TO BE LABELED CONFORMING TO AAMA/NWDA 101/I.S.2.
3. ALL DENS-GLASS GOLD GYPSUM SHEETING TO BE TAPED. ALL GYPSUM BOARD TO BE TAPED AND SANDED SMOOTH.
4. ALL WOOD BLOCKING AND PLYWOOD SHEATHING USED IS TO BE FIRE-TREATED / FIRE RETARDANT.
5. AT BASE OF ALL EX. MASONRY & SPLIT FACE CMU WALLS, PROVIDE ROPE WEEPS @ 24" O.C. (EXTEND ROPE WEEPS AS HIGH AS POSSIBLE ABOVE TOP OF FOUNDATION/GRADE/WALK) PROVIDE WASCO FLASHING @ BASE UP 8" MIN. EXTEND FLASHING 1/4" BEYOND NEW WALLS. PAINT FLASHING TO MATCH EX. SPLIT FACE CMU.
6. EXTERIOR SIGNS ARE SHOWN FOR REFERENCE ONLY AND ARE OMITTED FROM THE BUILDING PERMIT. ALL SIGNAGE WILL SUBMITTED UNDER A SEPARATE SIGNAGE PERMIT SUBMISSION. A SEPARATE PERMIT MUST BE OBTAINED FOR ALL EXTERIOR SIGNAGE. TYPICAL.
7. PROVIDE FIRE TREATED PLYWOOD BEHIND BUILDING SIGNS IF APPLICABLE. GC TO VERIFY EXACT LOCATIONS
8. ALL PROPOSED FINISHES SHALL BE APPLIED ON PREPARED SURFACES PER MANUFACTURER'S INSTALLATION SPECIFICATIONS. SAME APPLIES TO INSTALLATION OF MATERIALS. VERIFY MINIMUM TEMPERATURE REQUIREMENTS FOR APPLICATION.
9. ALL CURTAIN WALLS, STOREFRONT GLAZING, AND ENTRANCE DOORS WILL BE TESTED FOR AIR LEAKAGE AT 1.57 POUNDS PER SQUARE FOOT IN ACCORDANCE WITH ASTM E283. A COPY OF THE TEST SHALL BE PRESENTED TO THE BUILDING OFFICIAL AT THE TIME OF INSPECTIONS.
10. PROVIDE BOLLARD PROTECTION AROUND ALL EXTERIOR REAR UTILITY/EQUIPMENT FOR PROTECTION AND PAINT SAFETY YELLOW, TWO COATS. REFER TO ARCHITECTURAL & STRUCTURAL FOR ADDITIONAL BOLLARD LOCATIONS.
11. EIFS FINISH SHOWN ON ELEVATIONS SHALL BE SAND TEXTURE AND 'DRYVIT' OR ARCH. APPVD. EQ.
12. COLD WEATHER CONSTRUCTION: FOR TEMPERATURES UNDER 40° GC TO PROVIDE TEMPORARY HEAT AND PLASTIC BARRIER TO MAINTAIN TEMPERATURE OVER 40°. ALL PRODUCTS TO BE INSTALLED PER MANUFACTURES REQUIREMENTS.
13. EXISTING FINISHES TO BE CLEANED/PRESSURE WASHED TO LIKE NEW CONDITION

DEMO KEYED NOTES

01 EXISTING EXTERIOR GLASS DOORS, STOREFRONT FRAMING AND GLAZING TO BE REMOVED.

02 REMOVE PORTION OF EXISTING WALL AS REQUIRED TO PROVIDE OPENING FOR NEW GLAZING OR NEW DOOR IN EXISTING WALLS AS INDICATED, SEE A1.0. REPAIR EXISTING FINISHES AFTER INSTALLATION OF NEW STEEL AS REQUIRED. TAKE ALL PRECAUTIONS TO PROTECT NEW AND EXISTING CONSTRUCTION. PROVIDE TEMPORARY STRUCTURAL SUPPORT AS REQUIRED DURING DEMOLITION AND UNTIL NEW CONSTRUCTION IS INSTALLED. SEE DEMOLITION NOTES & STRUCTURAL SHEETS FOR MORE INFORMATION.

03 ALL EXISTING REVEALS IN FACADE TO BE INFILLED AND RAISED SIGN BAND REMOVED

04 EXISTING ARCHED RECESSED AREA TO BE REMOVED AND PREPARE FOR NEW FRAMING AND EIFS FINISH TO MATCH. RE: SECTIONS AND STRUCTURAL.

05 REMOVE ALL DOWNLIGHTS UNDER EIFS BUMPOUT. PATCH EXISTING HOLES TO MATCH EXISTING. TYPICAL AROUND ENTIRE BUILDING.

06 REMOVE AND REPLACE EXISTING EXTERIOR DOOR.

KEYED NOTES

01 NEW SLIDING DOOR PACKAGE AND/OR STOREFRONT GLAZING.

02 NEW EXTERIOR DOOR TO BE PAINTED TO MATCH ADJACENT COLOR

03 INFILL ALL REVEALS AND NEW EIFS SCRATCH COAT AT SIGN BAND.

04 EXISTING COPING TO REMAIN. REPAIR AS REQUIRED. PREP FOR NEW COLOR

05 NEW "BOB'S DISCOUNT FURNITURE" "OUTLET" AND "MATTRESSES" SIGNAGE TO BE PERMITTED SEPARATELY.

06 PREP EXISTING EIFS TOP BAND NEW COLOR AS SHOWN. REPAIR EXISTING EIFS AS REQUIRED.

07 ALL EXISTING CMU/BRICK TO BE PREPPED AND PAINTED. GC TO VERIFY IF LL PAINTED EXISTING BUILDING

08 NEW 4'-0"H x 4'D BLACK SUNBRELLA FABRIC AWNING OVER 1"x1" BLACK POWDER COATED ALUM. FRAME. DO NOT INSTALL TO THE STOREFRONT SYSTEM/GLAZING MULLIONS.

09 NEW EIFS OVER ⅝" DENS GLASS GOLD AND METAL STUDS. RE: SECTIONS

10 NEW OVERHEAD DOOR, DOCK LEVELER (IF APPLICABLE), SEAL AND BUMPERS (IF APPLICABLE).

11 NEW EXTERIOR LIGHT SCONCE RE: ELECTRICAL

12 PREP AND PAINT EXISTING OVERHEAD CANOPY BLACK

13 PREP AND PAINT EXISTING FIRE PIPES RED INDUSTRIAL ENAMEL TO MATCH EXISTING COLOR

14 PREP EXISTING ALL EIFS FOR NEW COLOR AS SHOWN. REPAIR EXISTING EIFS AS REQUIRED. GC TO VIF IF LL HAS ALREADY CHANGED THE COLOR

15 PREP AND PAINT ALL EXISTING DOWNSPOUTS TO MATCH ADJACENT COLOR

16 PATCH ALL REMOVED DOWN LIGHTS IN SOFFIT WITH EIFS TO MATCH EXISTING.

17 ALL NEW OR EXISTING PIPE BOLLARDS PAINTED YELLOW.

PAINT COLORS

1 DRYVIT - OYSTER SHELL
(BENJAMIN MOORE "BOB'S DOS")

2 DRYVIT - CHOCOLATE MOUSSE
(BENJAMIN MOORE "BOB'S DCM")

NOTE: VERIFY ALL IN-LINE COLOR WITH BOB'S DISCOUNT FURNITURE.

TYPICAL EXTERIOR CAULK COLORS

-	EGGSHELL CREAM	SIKAFLEX - 2C POLYURETHANE
-	DARK BRONZE	SIKAFLEX - 2C POLYURETHANE

MATERIAL REQUIREMENTS

- CONTRACTOR TO CONFIRM MINIMUM INTERNATIONAL ENERGY CONSERVATION CODE REQUIREMENTS ARE MET. COPIES OF LABELS INDICATING COMPLIANCE MUST BE SUBMITTED TO LOCAL AUTHORITY. MATERIALS SHALL MEET MINIMUM REQUIREMENTS AS OUTLINED BELOW IN INTERNATIONAL ENERGY CODE TABLE C402.4.

INTERNATIONAL ENERGY CODE TABLES C402.1.3 & C402.1.4
ENVELOPE MATERIALS - MINIMUM THERMAL RESISTANCE PROPERTIES

COMPONENT:	ASSEMBLY:	R	U	F	REMARK
ROOF ABOVE DECK	POLYISOCYANURATE R25 CI	25	.039	-	1,2
MASS WALL (ABOVE)	R-5.7 CONTINUOUS INSULATION	5.7	.151	-	1,2
METAL FRAMED WALL (ABOVE)	R-19.0 BATT + R-11 LS CONTINUOUS INSULATION	30	.035	-	1,2
BELOW GRADE WALL	NR	-	-	-	
UNHEATED SLAB	NR	-	-	-	
OPAQUE DOOR SWING	INSULATED HOLLOW METAL DOORS	-	.61	-	1,2
OPAQUE DOOR NON-SWING	INSULATED SECTIONAL OR COILING DOORS	-	.31	-	1,2

INTERNATIONAL ENERGY CODE TABLE C402.4 REQUIREMENTS
MAXIMUM U-FACTOR AND SHGC REQUIREMENTS

VERTICAL FENESTRATION	U-FACTOR		NOTE	REMARK
FIXED FENESTRATION	0.45		1,2,3	
OPERABLE FENESTRATION	0.60		1,2,3	
ENTRANCE DOORS	0.77		1,2,3	

NOTES:
1. IECC VALUES ABOVE ARE REQUIREMENTS FOR ALL NEW BUILDING COMPONENTS.
2. ALL PRODUCTS/MATERIALS INSTALLED IN THE FIELD SHALL BE LABELED AND CERTIFIED TO VERIFY THESE RATINGS AND LABELED AS SUCH BY THE MANUFACTURER.
3. ALL FENESTRATION SYSTEMS SHALL HAVE PRODUCT TESTED IN ACCORDANCE WITH THE REQUIRED TEST PROCEDURES NOTED ABOVE AND SHALL BE LABELED BY THE MANUFACTURER.

CERTIFICATION:

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MELBOURNE, FL 32904

REVISION DATES

NO.	DATE	TYPE

ISSUE DATES

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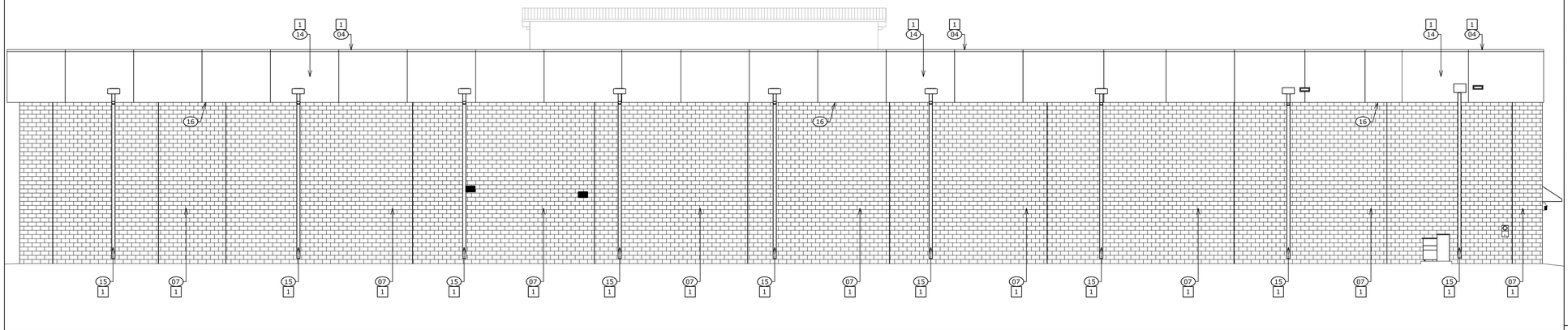
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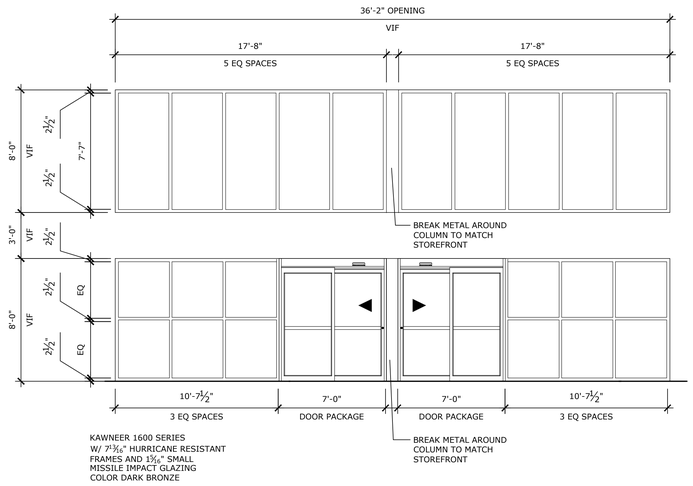
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ELEVATIONS

SHEET NUMBER
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1 REAR ELEVATION

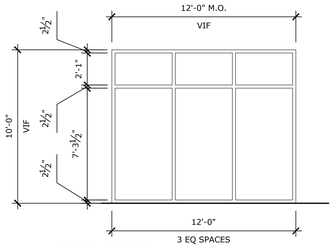
SCALE: ⅛" = 1'-0"



KAWNEER 1600 SERIES
W/ 7³⁄₁₆" HURRICANE RESISTANT
FRAMES AND 1³⁄₁₆" SMALL
MISSILE IMPACT GLAZING
COLOR DARK BRONZE

2 ENLARGED STOREFRONT ELEVATIONS

SCALE: ½" = 1'-0"



KAWNEER 1600 SERIES
W/ 7³⁄₁₆" HURRICANE RESISTANT
FRAMES AND 1³⁄₁₆" SMALL
MISSILE IMPACT GLAZING
COLOR DARK BRONZE

SCALE: ¼" = 1'-0"

3 ENLARGED STOREFRONT ELEVATIONS

GENERAL NOTES

1. INSTALL CONTINUOUS SEALANT BEAD BETWEEN ALL UNLIKE MATERIALS.
2. PROVIDE SAFETY GLAZING AT DOORS, TRANSOM, SIDELITES, AND GLAZING 2'-0" ABOVE FIN GRADE. WINDOWS AND DOORS TO BE LABELED CONFORMING TO AAMA/NWDA 101/I.S.2.
3. ALL DENS-GLASS GOLD GYPSUM SHEETING TO BE TAPED. ALL GYPSUM BOARD TO BE TAPED AND SANDED SMOOTH.
4. ALL WOOD BLOCKING AND PLYWOOD SHEATHING USED IS TO BE FIRE-TREATED / FIRE RETARDANT.
5. AT BASE OF ALL EX. MASONRY & SPLIT FACE CMU WALLS, PROVIDE ROPE WEEPS @ 24" O.C. (EXTEND ROPE WEEPS AS HIGH AS POSSIBLE ABOVE TOP OF FOUNDATION/GRADE/WALK) PROVIDE WASCO FLASHING @ BASE UP 8" MIN. EXTEND FLASHING 1/4" BEYOND NEW WALLS. PAINT FLASHING TO MATCH EX. SPLIT FACE CMU.
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DEMO KEYED NOTES

01. EXISTING EXTERIOR GLASS DOORS, STOREFRONT FRAMING AND GLAZING TO BE REMOVED.
02. REMOVE PORTION OF EXISTING WALL AS REQUIRED TO PROVIDE OPENING FOR NEW GLAZING OR NEW DOOR IN EXISTING WALLS AS INDICATED, SEE A1.0. REPAIR EXISTING FINISHES AFTER INSTALLATION OF NEW STEEL AS REQUIRED. TAKE ALL PRECAUTIONS TO PROTECT NEW AND EXISTING CONSTRUCTION. PROVIDE TEMPORARY STRUCTURAL SUPPORT AS REQUIRED DURING DEMOLITION AND UNTIL NEW CONSTRUCTION IS INSTALLED. SEE DEMOLITION NOTES & STRUCTURAL SHEETS FOR MORE INFORMATION.
03. ALL EXISTING REVEALS IN FACADE TO BE INFILLED AND RAISED SIGN BAND REMOVED
04. EXISTING ARCHED RECESSED AREA TO BE REMOVED AND PREPARE FOR NEW FRAMING AND EIFS FINISH TO MATCH. RE: SECTIONS AND STRUCTURAL.
05. REMOVE ALL DOWNLIGHTS UNDER EIFS BUMPOUT. PATCH EXISTING HOLES TO MATCH EXISTING. TYPICAL AROUND ENTIRE BUILDING.
06. REMOVE AND REPLACE EXISTING EXTERIOR DOOR.

KEYED NOTES

01. NEW SLIDING DOOR PACKAGE AND/OR STOREFRONT GLAZING.
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03. INFILL ALL REVEALS AND NEW EIFS SCRATCH COAT AT SIGN BAND.
04. EXISTING COPING TO REMAIN. REPAIR AS REQUIRED. PREP FOR NEW COLOR
05. NEW "BOB'S DISCOUNT FURNITURE" "OUTLET" AND "MATTRESSES" SIGNAGE TO BE PERMITTED SEPARATELY.
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08. NEW 4'-0"H x 4"D BLACK SUNBRELLA FABRIC AWNING OVER 1"x1" BLACK POWDER COATED ALUM. FRAME. DO NOT INSTALL TO THE STOREFRONT SYSTEM/GLAZING MULLIONS.
09. NEW EIFS OVER ⅝" DENS GLASS GOLD AND METAL STUDS. RE: SECTIONS
10. NEW OVERHEAD DOOR, DOCK LEVELER (IF APPLICABLE), SEAL AND BUMPERS (IF APPLICABLE).
11. NEW EXTERIOR LIGHT SCONCE RE: ELECTRICAL
12. PREP AND PAINT EXISTING OVERHEAD CANOPY BLACK
13. PREP AND PAINT EXISTING FIRE PIPES RED INDUSTRIAL ENAMEL TO MATCH EXISTING COLOR
14. PREP EXISTING ALL EIFS FOR NEW COLOR AS SHOWN. REPAIR EXISTING EIFS AS REQUIRED. GC TO VIF IF LL HAS ALREADY CHANGED THE COLOR
15. PREP AND PAINT ALL EXISTING DOWNSPOUTS TO MATCH ADJACENT COLOR
16. PATCH ALL REMOVED DOWN LIGHTS IN SOFFIT WITH EIFS TO MATCH EXISTING.
17. ALL NEW OR EXISTING PIPE BOLLARDS PAINTED YELLOW.

PAINT COLORS

1. DRYVIT - OYSTER SHELL
(BENJAMIN MOORE "BOB'S DOS")
2. DRYVIT - CHOCOLATE MOUSSE
(BENJAMIN MOORE "BOB'S DCM")

NOTE: VERIFY ALL IN-LINE COLOR WITH BOB'S DISCOUNT FURNITURE.

TYPICAL EXTERIOR CAULK COLORS		
-	EGGSHELL CREAM	SIKAFLEX - 2C POLYURETHANE
-	DARK BRONZE	SIKAFLEX - 2C POLYURETHANE

MATERIAL REQUIREMENTS

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INTERNATIONAL ENERGY CODE TABLES C402.1.3 & C402.1.4
ENVELOPE MATERIALS - MINIMUM THERMAL RESISTANCE PROPERTIES

COMPONENT:	ASSEMBLY:	R	U	F	REMARK
ROOF ABOVE DECK	POLYISOCYANURATE R25 CI	25	.039	-	1,2
MASS WALL (ABOVE)	R-5.7 CONTINUOUS INSULATION	5.7	.151	-	1,2
METAL FRAMED WALL (ABOVE)	R-19.0 BATT + R-11 LS CONTINUOUS INSULATION	30	.035	-	1,2
BELOW GRADE WALL	NR	-	-	-	
UNHEATED SLAB	NR	-	-	-	
OPAQUE DOOR SWING	INSULATED HOLLOW METAL DOORS	-	.61	-	1,2
OPAQUE DOOR NON-SWING	INSULATED SECTIONAL OR COILING DOORS	-	.31	-	1,2

INTERNATIONAL ENERGY CODE TABLE C402.4 REQUIREMENTS
MAXIMUM U-FACTOR AND SHGC REQUIREMENTS

VERTICAL FENESTRATION	U-FACTOR		NOTE	REMARK
FIXED FENESTRATION	0.45		1,2,3	
OPERABLE FENESTRATION	0.60		1,2,3	
ENTRANCE DOORS	0.77		1,2,3	

NOTES:
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3. ALL FENESTRATION SYSTEMS SHALL HAVE PRODUCT TESTED IN ACCORDANCE WITH THE REQUIRED TEST PROCEDURES NOTED ABOVE AND SHALL BE LABELED BY THE MANUFACTURER.

CERTIFICATION:

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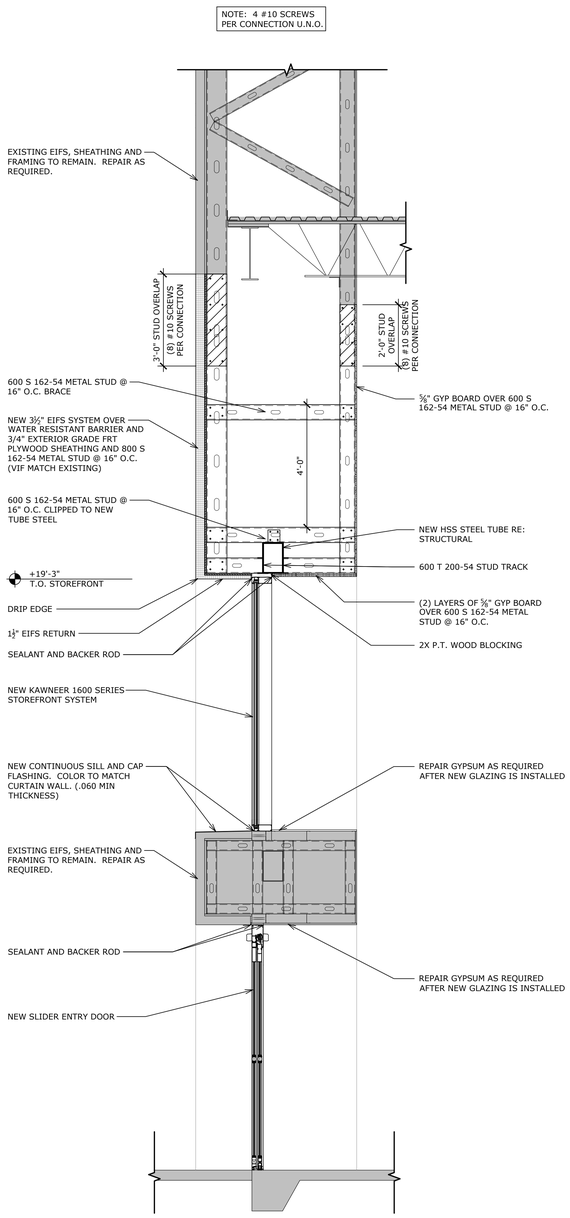
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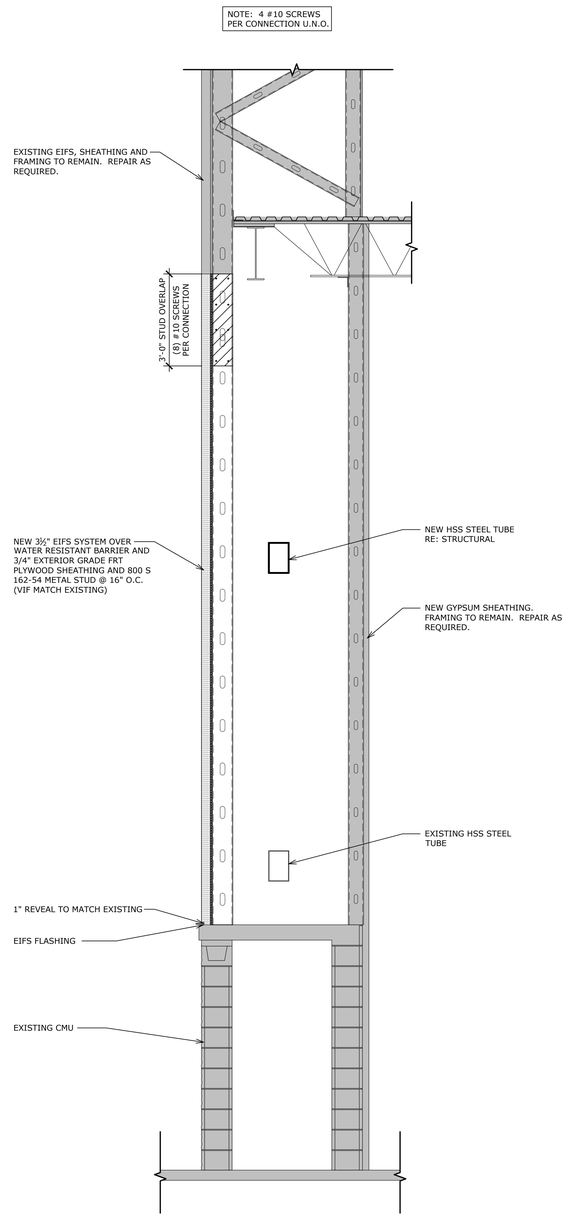
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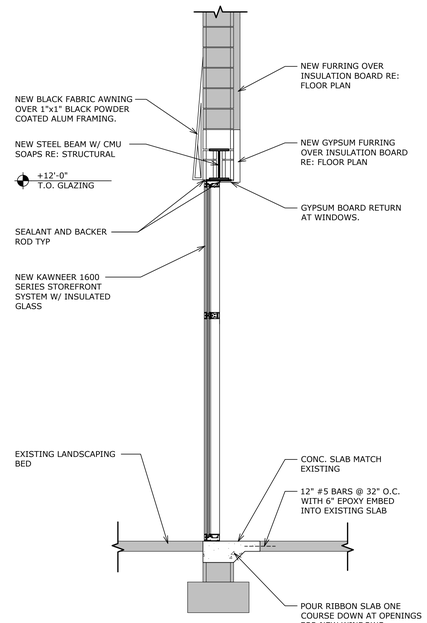
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1 BUILDING SECTIONS



2 BUILDING SECTIONS



3 BUILDING SECTIONS

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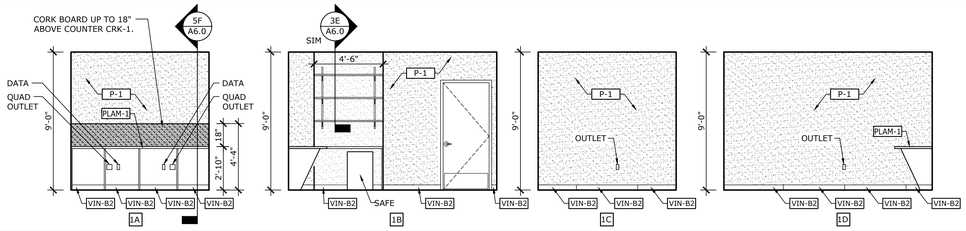
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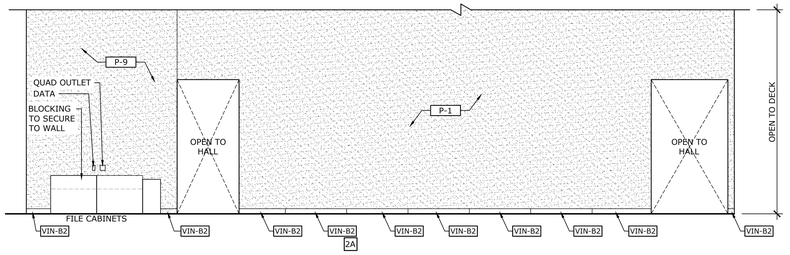
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BUILDING SECTIONS

SHEET NUMBER
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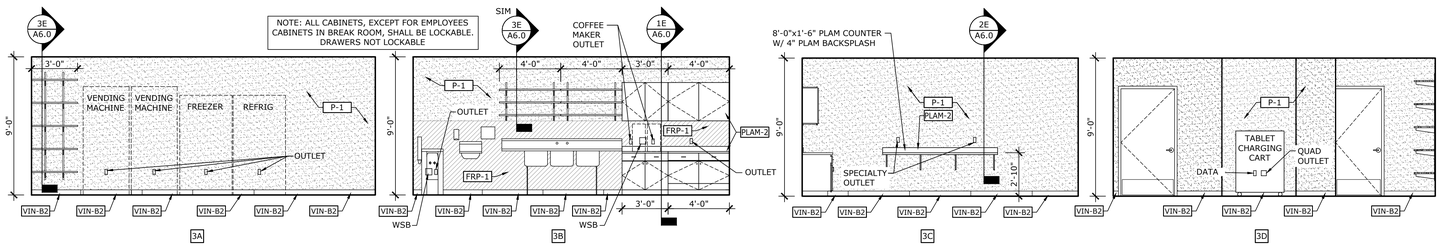
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SCALE = ¼"=1'-0"



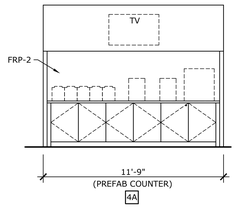
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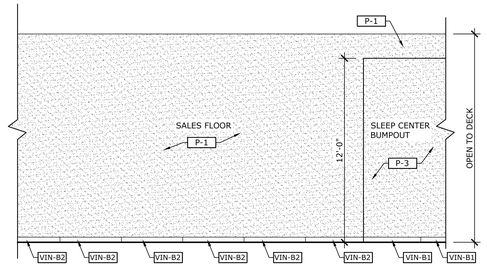


3 BREAKROOM/STORAGE ELEVATIONS

SCALE = ¼"=1'-0"

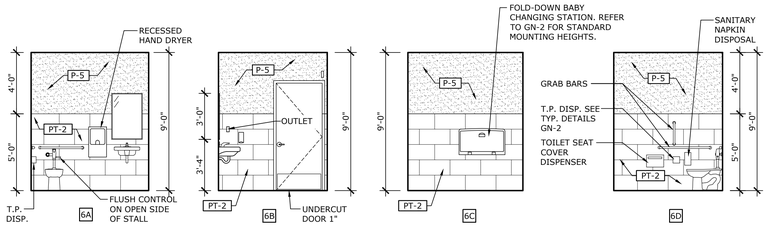


4 LOUNGE AREA ELEVATIONS



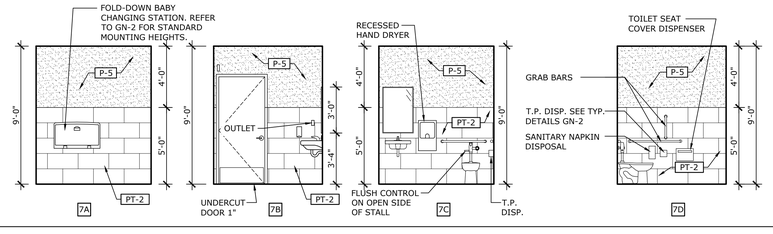
5 TYPICAL INTERIOR ELEVATIONS

SCALE = ¼"=1'-0"



6 RESTROOM ELEVATIONS

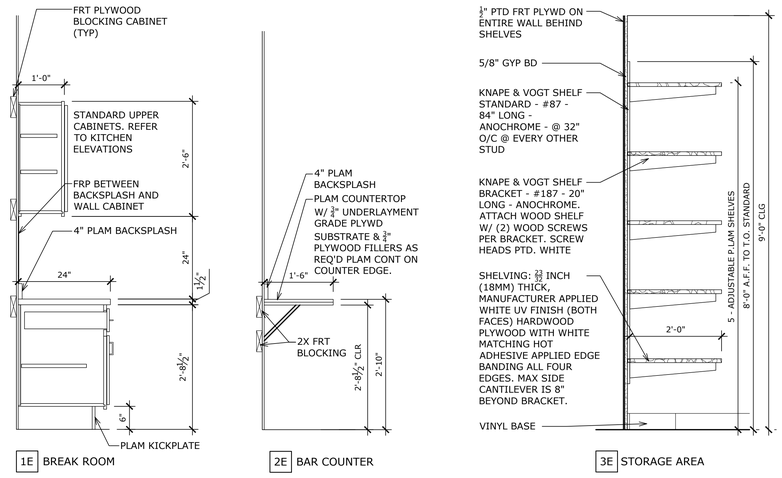
SCALE = ¼"=1'-0"



7 RESTROOM ELEVATIONS

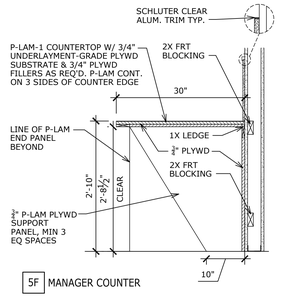
SCALE = ¼"=1'-0"

GUIDELINES ON LAMINATE COLORS:
CABINET P-LAM SHALL MATCH COUNTERTOP P-LAM. REFER TO FINISH SCHEDULE.



E CABINET DETAILS

SCALE = ¾"=1'-0"



CABINETS BASED ON:
KRAFTMAID - PLASTIC LAMINATE
1" OVERLAY
DOOR STYLES: FLUSH
SUBSTRATE: PLYWOOD, MDF OR PRESSBOARD

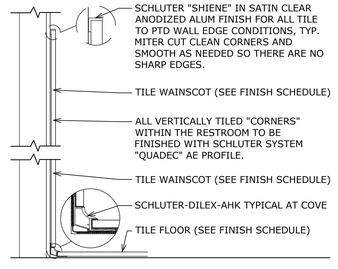
HARDWARE: STAINLESS STEEL KNOBS & PULLS - 32D DRAWER SLIDES: FULL EXTENSION
SHELVES: ADJUSTABLE

GENERAL COUNTER NOTES:
- ALL COUNTERTOPS TO MATCH BASE CABINETS
- AT METAL STUDS PROVIDE ¾"X8" FRT PLYWOOD CONT. BLOCKING
- COUNTERTOPS: PREFORMED ROLLED EDGE, 24" STANDARD WIDTHS
- PROVIDE ALL FILLERS IN MATCHING COLOR & TEXTURE
- COORDINATE SCHEDULED FIXTURES & APPLIANCES FOR CLEARANCE
- FIT ALL COUNTERTOPS TO WALLS, INTERSECTIONS & CORNERS
- INSTALL CLEAR SEALANT @ JOINTS & WALL CONNECTIONS
- COUNTERTOP INTERSECTION: SCRIBE, FIT AND APPLY SEALANT. USE DRAWBOLTS TO CLAMP & SECURE COUNTERTOPS SCRIBE BACKSPLASH TO WALL & INTERSECTIONS.
- SCRIBE BACKSPLASH TO WALL & INTERSECTIONS.

ACCESSIBLE CABINET NOTES:
- PROVIDE MANUFACTURER'S LINE OF ACCESSIBLE BASE UNITS
- FOLLOW IBC/ANSI A117-1 CLEARANCE REQUIREMENTS
- COORDINATE SCHEDULED FIXTURES AND APPLIANCES FOR CLEARANCES.
- FIT ALL COUNTERTOPS TO WALLS, INTERSECTIONS, AND CORNERS. INSTALL CLEAR SEALANT AT JOINTS AND WALL CONNECTIONS.

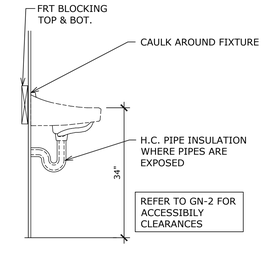
F COUNTERTOP DETAILS & NOTES

SCALE = ¾"=1'-0"



8 TYPICAL TILE TERMINATION

SCALE = 1½"=1'-0"



9 RESTROOM/BREAKROOM SINK

SCALE = ¾"=1'-0"

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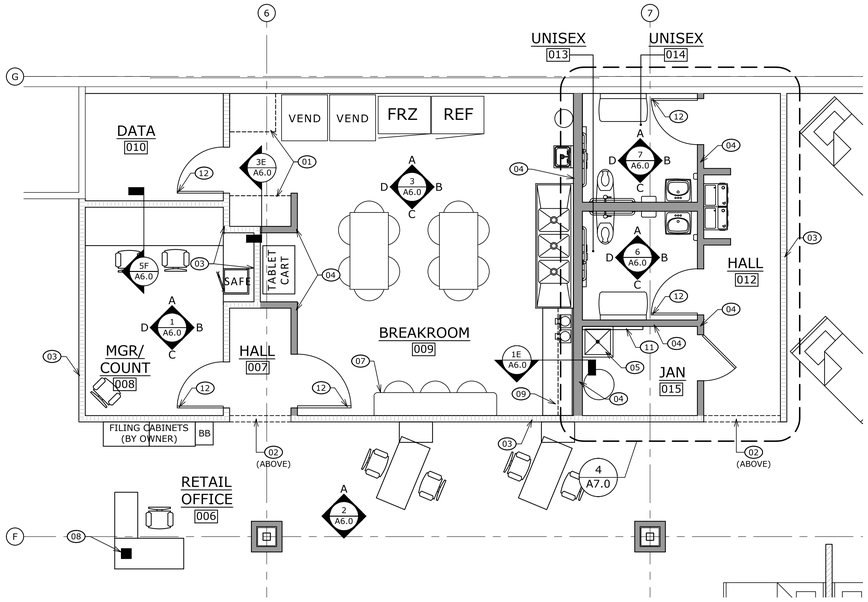
REVISION DATES

NO.	DATE	TYPE

ISSUE DATES

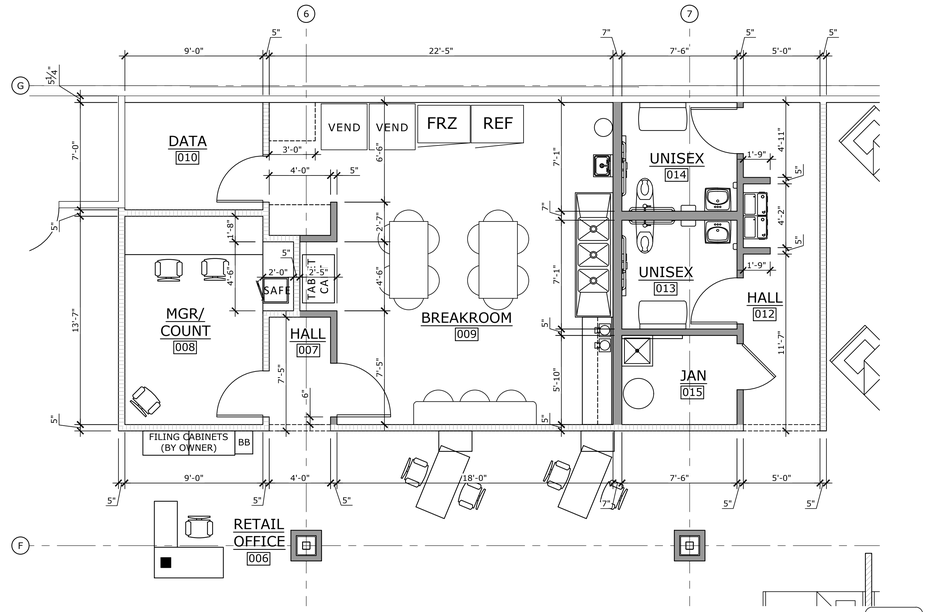
TYPE	DATE
PERMIT/CONSTRUCTION SET	08/14/26

DRAWN BY
CHECKED BY
PROJECT NUMBER 26-91020
DATE 08/14/2026
SHEET TITLE: INTERIOR ELEVATIONS & DETAILS
SHEET NUMBER: A6.0



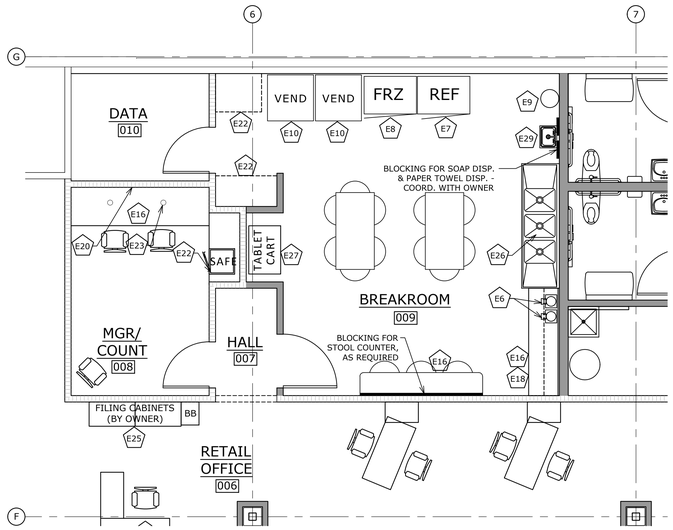
1 ENLARGED TAGGED PLAN

SCALE: ¼" = 1'-0"



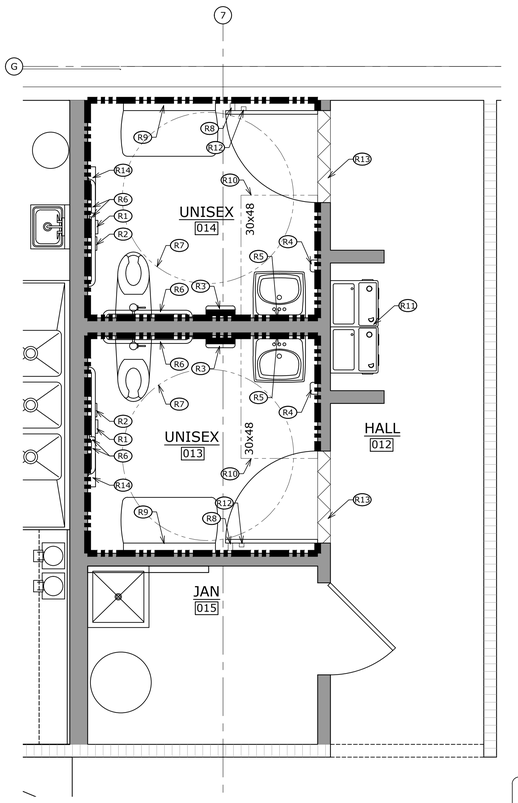
2 ENLARGED DIMENSIONED PLAN

SCALE: ¼" = 1'-0"



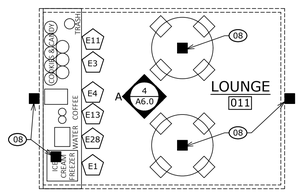
3 ENLARGED TAGGED PLAN

SCALE: ¼" = 1'-0"



4 ENLARGED PLAN - TOILET ROOMS

SCALE: ½" = 1'-0"



5 ENLARGED EQUIPMENT PLAN

SCALE: ¼" = 1'-0"

GENERAL NOTES

1. REFER TO GN-1 FOR LIST OF OWNER SUPPLIED EQUIPMENT.
2. REFER TO SHEET A1.0 FOR GENERAL CONSTRUCTION NOTES, KEYED NOTES, AND SCOPE COORDINATION.
3. REFER TO GN-2 FOR ACCESSORY MOUNTING HEIGHTS & LOCATIONS.
4. BLOCKING SHOWN ON THIS SHEET DOES NOT INCLUDE BLOCKING REQUIRED FOR INSTALLATION OF MILLWORK, COUNTERS, ETC. COORDINATE WITH ALL DETAILS AND SPECIFICATIONS.

PARTITION TYPES

SYMBOL	DESCRIPTION
	EXISTING EXTERIOR WALL, PRECAST OR CMU WALL TO REMAIN
	SALES FLOOR PERIMETER FURRING. WALL TO BE LEVEL 4 FINISH (READY TO PAINT).
	EXISTING STEEL STUD & GWB WALL OR FURRING. PATCH AND REPAIR AS REQUIRED FOR SMOOTH PAINT FINISH. EXTEND GWB TO DECK ON OPEN SIDE OF WALL.
	INFILL EXISTING DOOR OPENING WITH CMU/BRICK TO MATCH EXISTING.
	20 GAUGE METAL STUDS @ 16" O.C. & 5/8" GWB PARTITION OR WALL FURRING TO 6" ABOVE HIGHEST ADJACENT CEILING. SEE FINISH SCHEDULE FOR FINISH & REFER TO ENLARGED PLANS FOR FRT BLOCKING REQUIREMENTS. BRACE WALL TO STRUCTURE ABOVE AS REQUIRED FOR RIGID CONSTRUCTION. PROVIDE 5/8" CEMENT TILE BACKER BOARD AT AREAS SCHEDULED TO RECEIVE TILE. REFER TO INTERIOR ELEVATIONS FOR EXACT TILE LOCATIONS.
	18 GAUGE METAL STUDS @ 16" O.C. WALLS TO BOTTOM OF DECK ABOVE. EXTEND 5/8" GWB TO DECK ON OPEN GRID SIDE OF WALL AND EXTEND 5/8" GWB TO 6" ABOVE CEILING ON CONCEALED SIDE WHERE APPLICABLE. AT MANAGERS OFFICE AND DATA ROOM EXTEND GWB FULL HEIGHT.
	SALES FLOOR AREA DISPLAY PARTITION. HEIGHT VARIES, SEE SCHEDULE. REFER TO SHEET A8.2 FOR DISPLAY PARTITION DETAILS.
	RESTROOM WALL TILE TO 5'-0" A.F.F. (REFER TO ENLARGED PLAN FOR LOCATION) RESTROOM WALL TILE BASE UP TO 6" A.F.F. (REFER TO ENLARGED PLAN FOR LOCATION)
	FRT PLYWOOD BLOCKING BETWEEN WALL STEEL STUDS. (REFER TO ENLARGED PLAN FOR LOCATION)

INTERIOR FRAMING

- 5" NOMINAL WALL THICKNESS = 5/8" GWB EA SIDE OF 3⅝" 18 GAUGE METAL (362S125-43) STUDS @ 16" O.C. WHERE EXTENDED TO ROOF DECK. WHERE 3⅝" STUDS STOP ABOVE FINISHED CEILINGS 20 GAUGE STUDS (362S125-33) ARE ACCEPTABLE.
- 7" NOMINAL WALL THICKNESS = 5/8" GWB EA SIDE OF 6" 18 GAUGE METAL (600S125-43) STUDS @ 16" O.C. WHERE EXTENDED TO ROOF DECK.
- EXTEND GWB AT EXISTING AND NEW PARTITIONS TO MIN 6" ABOVE FINISHED CEILING PLAN AND TO DECK ABOVE WHERE NO FINISHED CEILING OR AN OPEN CEILING GRID IS PRESENT AND FULL HEIGHT AT MANAGERS OFFICE AND DATA ROOM.
- REFER TO PARTITION HEIGHT LEGEND FOR HEIGHT OF STUDS ABOVE FINISHED FLOOR.
- PROVIDE BATT/SOUND PROOFING INSULATION AT RESTROOM AND OFFICE WALLS.
- PROVIDE POLYISO RIGID INSULATION AT PERIMETER EXTERIOR WALLS.

KEYED NOTES

(01) COORDINATE ANY FRT BLOCKING FOR CABINETS/SHELVING
(02) LINE OF GWB SOFFIT / HEADER ABOVE. PROVIDE FRAMED JAMBS AND BOX BEAM HEADER AS REQUIRED AROUND OPENING.
(03) EXTEND GWB TO DECK ON SALES AND RECEIVING AREA SIDES ONLY AND PROVIDE AIR TIGHT SEAL AT DECK. EXTEND GWB ON OTHER SIDE TO 6" ABOVE FINISHED CEILING EXCEPTION AT DATA AND MGR/COUNT EXTEND GYP FULL HEIGHT BOTH SIDES.
(04) EXTEND STUD / DRYWALL TO ABOVE FINISHED CEILINGS ONLY. RE: WALL TYPES, ETC.
(05) FLOOR MOUNTED MOP SINK.
(06) NOT USED.
(07) RADIUS ALL CORNERS OF COUNTERTOPS FOR SAFETY.
(08) LOCATION OF (N) DATA & FLOOR POWER RECEPTACLES, SAWCUT SLAB & PROVIDE TRENCH TO NEAREST WALL. COORDINATE EXACT LOCATION W/ ELECTRICAL. PATCH FLUSH W/ EXISTING FLOOR PROVIDE #5 DOWNS DRILLED & EPOXY SET AT 12" O.C.
(09) P-LAM COUNTERTOP. SEE ELEVATIONS & SECTION DETAILS FOR HEIGHT, CONSTRUCTION, AND DEPTH.
(10) NOT USED
(11) WALL MOUNTED MOP RACK (PROVIDE BLOCKING AS REQUIRED).
(12) DOOR BUMPER / WALL STOP (TYPICAL FOR ALL DOORS)

ROOM FIXTURES
(NOT ALL ARE USED - REFER TO PLAN)

(E1) FREEZER CHEST: INDIVIDUAL, PREPACKAGED SERVINGS.
(E2) EMPLOYEE LOCKERS. LOCATED IN RECEIVING ROOM
(E3) COOKIES - PREPACKAGED: SELF-SERVED FROM ACRYLIC CASE
(E4) COFFEE DISPENSERS: SELF SERVED FROM STAINLESS STEEL AIR POTS. "BLOOMFIELD" MODEL #7759.
(E6) COFFEE MAKER (TYPICAL OF 2): "BLOOMFIELD" MODEL #1082 EBC. AUTOMATIC THERMAL COFFEE BREWER. TWO ½" COMPRESSION FITTINGS FOR COFFEE MAKERS ON THE COUNTERTOP IN THE BREAK ROOM.
(E7) REFRIGERATOR: "TURBO AIR" MODEL #TGM-35R. 41"W x 31"D x 78"H.
(E8) UPRIGHT FREEZER: "ARCTIC AIR" MODEL #F22CW. STAINLESS STEEL 22 CU. FT. - 43"W x 30"D x 70"H.
(E9) WATER COOLER: "CRYSTAL MOUNTAIN" POINT OF USE FILTRATION COOLER. 12.5" x 12.5" ONE ½" COMPRESSION FITTING FOR A WATER COOLER. RE PLUMBING PLANS. PROVIDE ELECTRICAL OUTLET.
(E10) VENDING MACHINE (TYPICAL OF 2) PROVIDE POWER.
(E11) PRE-WRAPPED CANDY JARS.
(E13) TV MOUNTED REFER TO ELECTRICAL DRAWINGS FOR CATV INFO.
(E16) P-LAM COUNTERTOP.
(E17) WHITE CABINETS WITH LOCKABLE BASE CABINETS. NO DRAWERS IN LOUNGE CABINETS. ADJACENT DRAWERS AND HIGH CABINETS SHALL NOT LOCK. WHITE P-LAM COUNTERTOP.
(E18) CABINETS AND DRAWERS (NOT LOCKABLE).
(E19) SALES AREA CASH DRAWER STATION
(E20) CORK BOARDS ABOVE COUNTERTOP IN MANAGER'S OFFICE & SALES.
(E22) OPEN FACE STORAGE SHELVING.
(E23) G.C. TO PROVIDE & INSTALL PLASTIC GROMMETS IN COUNTERTOP. BDF WILL LOCATE WHERE TO DRILL THE HOLES IN THE COUNTERTOP.
(E24) WALL MOUNTED COAT RACK MOUNTED @ 74" A.F.F. - ANODIZED ALUMINUM FINISH. 48"W x 12"D x 8"H. 18 HANGERS INCLUDED. GLOBAL INDUSTRIALS STOCK #WB938146. LOCATED IN RECEIVING ROOM
(E25) FILE CABINET PROVIDED BY BDF.
(E26) 2 COMPARTMENT STAINLESS STEEL SINK.
(E27) TABLET CHARGING CART.
(E28) COUNTERTOP WATER DISPENSOR PROVIDE BY BDF.
(E29) HAND SINK.

RESTROOM ACCESSORIES

(R1) TOILET PAPER DISPENSER
(R2) SANITARY NAPKIN DISPOSAL
(R3) XLERATOR ELECTRIC HAND DRYER W/ RECESS KIT, COLOR: WHITE - PROVIDE POWER & INSTALL UNIT PROVIDED BY OWNER.
(R4) SOAP DISPENSER.
(R5) MIRROR.
(R6) 42" & 36" LONG HORIZONTAL GRAB BARS & 18" VERTICAL GRAB BAR - SEE STANDARD ACCESSIBLE CLEARANCE DETAILS ON SHEET GN-2.
(R7) LINE OF DIAMETER ACCESSIBLE TURNAROUND.
(R8) COAT HOOK.
(R9) BABY CHANGING STATION - PROVIDE WALL BLOCKING. SEE INTERIOR ELEVATIONS FOR MOUNTING HEIGHT.
(R10) LINE OF 30"X48" ACCESSIBLE CLEAR SPACE.
(R11) ADA COMPLIANT DRINKING FOUNTAIN.
(R12) DOOR BUMPER/WALL STOP.
(R13) TILE TRANSITION. SEE DETAIL 3/A8.3.
(R14) TOILET SEAT COVER DISPENSER

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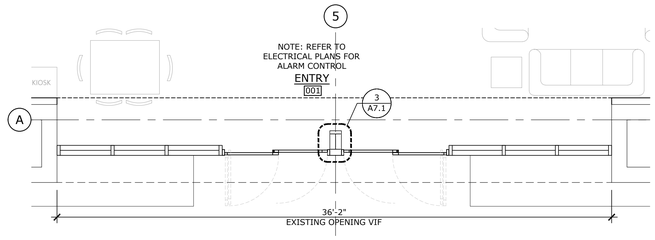
REVISION DATES

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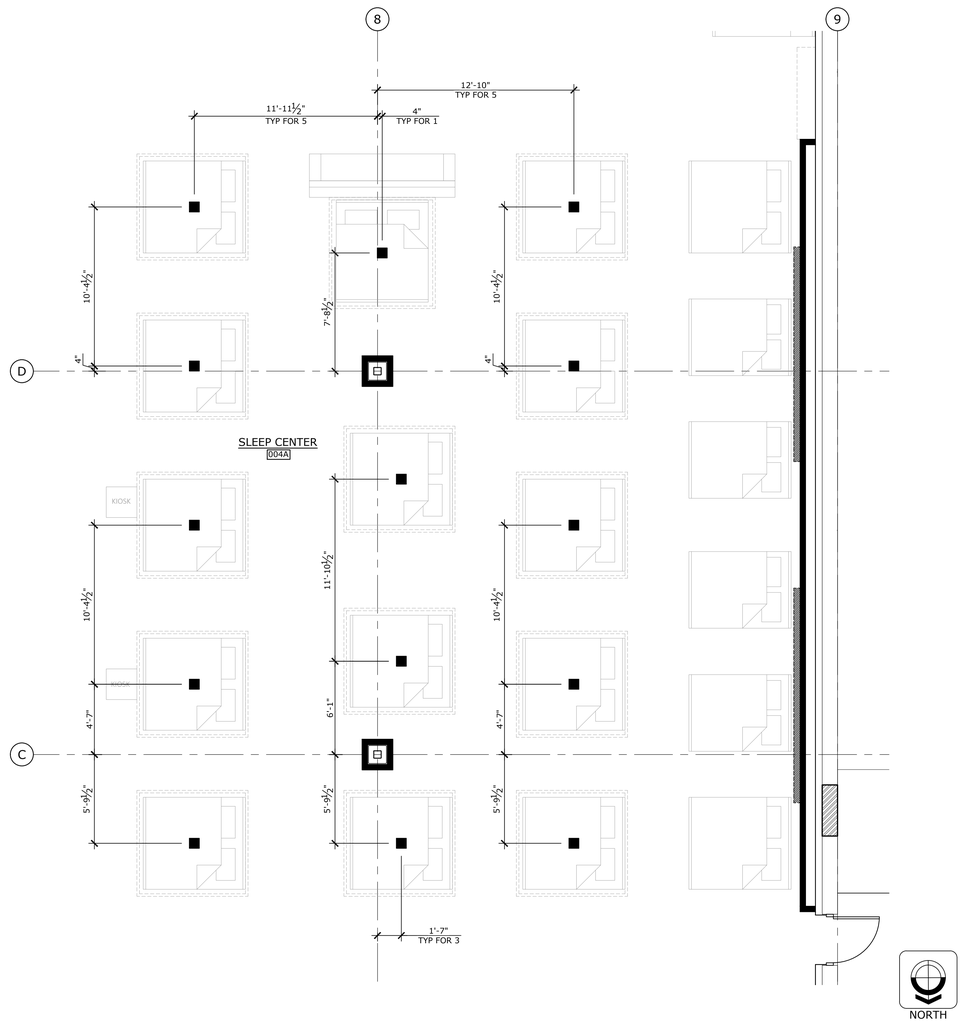
TYPE	DATE
PERMIT/CONSTRUCTION SET	08/14/26

DRAWN BY
CHECKED BY
PROJECT NUMBER 26-91020
DATE 08/14/2026
SHEET TITLE: ENLARGED PLANS
SHEET NUMBER: A7.0



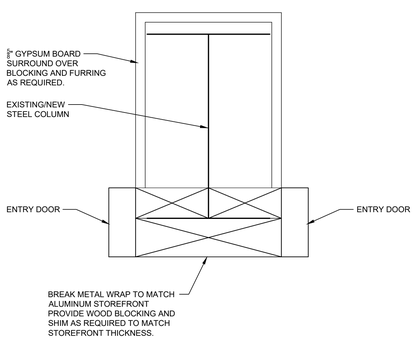
NORTH

1 ENLARGED PLAN - ENTRY SCALE: ¼" = 1'-0"



NORTH

2 ENLARGED PLAN - SLEEP CENTER SCALE: ¼" = 1'-0"



3 ENLARGED DETAIL SCALE: 3" = 1'-0"

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INTERIOR FRAMING

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- EXTEND GWB AT EXISTING AND NEW PARTITIONS TO MIN 6" ABOVE FINISHED CEILING PLAN AND TO DECK ABOVE WHERE NO FINISHED CEILING OR AN OPEN CEILING GRID IS PRESENT AND FULL HEIGHT AT MANAGERS OFFICE AND DATA ROOM.
- REFER TO PARTITION HEIGHT LEGEND FOR HEIGHT OF STUDS ABOVE FINISHED FLOOR.
- PROVIDE BATT/SOUND PROOFING INSULATION AT RESTROOM AND OFFICE WALLS.
- PROVIDE POLYISO RIGID INSULATION AT PERIMETER EXTERIOR WALLS AS NOTED.

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CHECKED BY:

PROJECT NUMBER
26-91020

DATE
08/14/2026

SHEET TITLE
ENLARGED PLANS

SHEET NUMBER
A7.1

BDF TYPICAL FINISH MATERIAL LEGEND

CATEGORY	MARK	MATERIAL	MANUFACTURER / PRODUCT	SIZE	LOCATION	REMARKS	BY
CEILING	ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG - #1728 SQUARE LAY-IN, FINE FISSURED, IN COLOR "WHITE"	24" X 24" X 5/8"	ENTRY AND BACK OF HOUSE	INCLUDE ARMSTRONG UNIVERSAL HOLD DOWN CLIP (UHDC) AT ENTRANCE VESTIBULE CEILING TILES.	CFCI
CEILING	ACT-2	ACOUSTICAL CEILING TILE	ARMSTRONG - #794 SQUARE LAY-IN, GEORGIAN (UNPERFORATED HIGH WASHABILITY PANELS), IN COLOR "WHITE"	24" X 24" X 5/8"	BACK OF HOUSE	AS NOTED	CFCI
CEILING	GRID-1	CEILING SUSPENSION SYSTEM	ARMSTRONG - PRELUDE EXPOSED TEE, IN COLOR "WHITE"	15/16"	ENTRY, RESTROOMS, BACK OF HOUSE ROOMS, AND SLEEP CENTER	ONLY IN THE SLEEP CENTER, FIELD PAINT THE GRID, CEILING TILES, ETC. P -5 (RECESSED SPRINKLER COVERS TO BE BLACK)	CFCI
EIFS	EIFS-1	EIFS	DRYVIT #456 - IN COLOR "OYSTER SHELL", TEXTURE SANDBLAST				CFCI
EIFS	EIFS-2	EIFS	DRYVIT #380 - IN COLOR "CHOCOLATE MOUSSE", TEXTURE SANDBLAST				CFCI
FINISH CARP	CRK-1	CORK SPLASH	1/4" THICK CORK ADHERED TO 1/4" PLYWOOD WITH SCHLUTER SCHIENE AT EXPOSED EDGES			DO NOT PAINT. SEAL PERIMETER TO WALL AND TO COUNTER WITH CLEAR PAINTABLE SILICONE CAULK	CFCI
FINISH CARP	FRP-1	FRP	STRUCTOLAB - IN WHITE WITH TEXTURED SIDE OUT (INCLUDE WHITE TRIM)	4' WIDE	BREAKROOM & JANITORS		CFCI
FINISH CARP	FRP-2	FRP	MARLITE - SYMMETRIX SMARTSEAM - SUBWAY TILE PATTERN , COLOR: WHITE TILE WITH WHITE GROUT		LOUNGE	THIS FRP COMES WITH THE FIXTURE PACKAGE SUPPLIED AND INSTALLED BY THE FIXTURE COMPANY AND IS NOT TO BE INCLUDED BY THE GC. NO TRIM AT TERMINATION TO SIDE WING WALLS OR COUNTER. USE WHITE SILICONE WITH TIGHT SMOOTHED BEAD.	OFOI
FINISH CARP	PLAM-1	PLASTIC LAMINATE	WILSONART - #4779 "PEWTER BRUSH"		SALES, MANAGERS, RESTROOMS		CFCI
FINISH CARP	PLAM-2	PLASTIC LAMINATE	WILSONART - #1570-60 "SOLID WHITE"		LOUNGE, BREAKROOM, STORAGE		CFCI
FLOORING	CPT-1	ENTRY CARPET SQUARES	MATTER SURFACES - SERIES SUPER NOP, COLOR: CHARCOAL	20" X 20"	ENTRY VESTIBULE	CARPET TILES WITH ADHESIVE	OFCI
FLOORING	STAIR-1	STAIR TREADS & RISERS	TARKETT - ANGLE FIT RUBBER STAIR TREADS, COLORS: 38 PEWTER CG AND 28 MEDIUM GRAY CG		SALES AREA STAIRS	START WITH MEDIUM GRAY ON FIRST STEP, THEN ALTERNATE. AT LANDINGS, INSTALL RUBBER SQUARES IN A CHECKERBOARD PATTERN	CFCI
FLOORING	GRT-1	TILE GROUT	TEC COLOR #927 LIGHT PEWTER	1/8" JOINTS	RESTROOM		CFCI
FLOORING	LVT-1	LUXURY VINYL TILE	MATTER SURFACES - FORMATIVE 2.5 LVT PLANK 2.5MM, COLOR: BOB'S SILVER WOOD WITH CERAMIC COATING #PW3065-T25 (36 SQFT/CASE)	7.2" X 48"	SALES FLOOR & MANAGERS	FLOORING WITH ADHESIVE. INSTALLED IN A RANDOM SEAM PATTERN AND RUNNING FRONT TO BACK.	OFCI
FLOORING	LVT-2	LUXURY VINYL TILE	MATTER SURFACES - FORMATIVE 2.5 LVTPLANK 2.5MM, COLOR: CIDER OAK WITH CERAMIC COATING #JFFOPLANKCO (42 SQFT/CASE)	7" X 48"	SLEEP CENTER & LOUNGE	FLOORING WITH ADHESIVE. INSTALLED IN A RANDOM SEAM PATTERN AND PERPENDICULAR TO THE SLEEP CENTER BACK WALL. INCLUDES A SINGLE MITTERED CORNERED FRAME OF LVT-2 ALL THE WAY AROUND THE PERIMETER OF THE LOUNGE AND SLEEP CENTER FLOORING AREA.	OFCI
FLOORING	PT-1	PORCELAIN TILE	ATLAS CONCORDE - SERIES: FRAY, COLOR: SMOKE	12" X 24"	RESTROOM FLOOR	SET IN BASKET WEAVE PATTERN WHERE THE PATTERN START POINT IS BEHIND THE DOOR	CFCI
FLOORING	PT-2	PORCELAIN TILE	ATLAS CONCORDE - SERIES: FRAY, COLOR: GRAY	12" X 24"	RESTROOM BASE & WAINSCOT	FOR BASE - CUT TO 6" X24". FOR WAINSCOT - SET IN BRICK PATTERN. USE WITH SCHLUTER DILEX 3/8" RADIUS COVE, SCHIENE, AND QUADEC (OUTSIDE CORNERS ONLY).	CFCI
FLOORING	PT-3	PORCELAIN TILE	ATLAS CONCORDE - SERIES: FRAY, COLOR: GRAY	12" x 12"	RESTROOM WAINSCOT ACCENT	2" X 2" MOSAIC	CFCI
FLOORING	PT-4	PORCELAIN TILE	ATLAS CONCORDE - SERIES: FRAY, COLOR: SMOKE		RESTROOM BASE	ONLY USE WHEN PT-2 (WITH SCHLUTER DILEX) IS NOT PERMITTED. INCLUDE FACTORY OUTSIDE CORNERS	CFCI
FLOORING	SV-1	SHEET VINYL FLOORING	MOHAWK-MEDELLA FLECK "#84197 SILVER GREY" - HOMOGENEOUS SHEET	6' 6" WIDE	BREAKROOM/STORAGE/JANITORS	AS NOTED: INCLUDE WITH 4" SELF-COVE W/ 3/8 RADIUS COVE AND CLEAR ANODIZED ALUMINUM TOP TRIM. INCLUDE HEAT WELDED SEAMS.	CFCI
FLOORING	VCT-1	VINYL COMPOSITE TILE	ARMSTRONG EXCELON IMPERIAL 51904 "STERLING"	12" X 12"	BACK OF HOUSE		CFCI
FLOORING	VIN-B1	VINYL TOE BASE	JOHNSONITE - 0.080" TRADITIONAL VINYL TOE BASE IN "NAVY BLUE" COLOR 18	4" X 48"	SLEEP CENTER		CFCI
FLOORING	VIN-B2	VINYL TOE BASE	JOHNSONITE - 0.080" TRADITIONAL VINYL TOE BASE IN "PEWTER" COLOR 38	4" X 48"	OTHER THAN SLEEP CENTER		CFCI
PAINT	CONC-S	CONCRETE SEAL COAT	SAKRETE- CURE 'N SEAL (WB) OR EQUAL. CLEAR ACRYLIC POLYMER SEALER		EXPOSED CONCRETE FLOOR	TWO COATS MINIMUM AFTER CONCRETE SURFACE HAS BEEN THOROUGHLY SCRUBBED CLEAN, ROUGH GROUND, AND ALL MARK AND OVERSPRAY REMOVED.	CFCI
PAINT	P-1	PAINT	BENJAMIN MOORE - #2140-70 "WINTER WHITE", FLAT FINISH ON GYP BD, EGGSHELL FINISH ON WOOD TRIM AND DOORFRAMES (UNLESS NOTED OTHERWISE)			REFER TO FINISH NOTES AND PAINT SPECIFICATIONS FOR SHEEN USED AT DIFFERENT APPLICATIONS ON THE PROJECT. REFER TO BENJAMIN MOORE PAINT REP FOR CLEANING AND PREP AND PRODUCT USED FOR DIFFERENT APPLICATIONS. PRIME AND TWO FINISH COATS MINIMUM. PRIMER TO BE TINTED TO MATCH	CFCI
PAINT	P-2	PAINT	BENJAMIN MOORE - 2063-10 "OLD NAVY", FLAT FINISH ON GYP BD (UNLESS NOTED OTHERWISE)			REFER TO FINISH NOTES AND PAINT SPECIFICATIONS FOR SHEEN USED AT DIFFERENT APPLICATIONS ON THE PROJECT. REFER TO BENJAMIN MOORE PAINT REP FOR CLEANING AND PREP AND PRODUCT USED FOR DIFFERENT APPLICATIONS. PRIME AND TWO FINISH COATS MINIMUM (TINT PRIMER TO MATCH).	CFCI
PAINT	P-3	PAINT	BENJAMIN MOORE - #2055-40 "BAHAMAN SEA BLUE", FLAT FINISH ON GYP BD (UNLESS NOTED OTHERWISE).			REFER TO FINISH NOTES AND PAINT SPECIFICATIONS FOR SHEEN USED AT DIFFERENT APPLICATIONS ON THE PROJECT. REFER TO BENJAMIN MOORE PAINT REP FOR CLEANING AND PREP AND PRODUCT USED FOR DIFFERENT APPLICATIONS. PRIME AND TWO FINISH COATS MINIMUM (TINT PRIMER TO MATCH).	CFCI
PAINT	P-4	PAINT	BENJAMIN MOORE - #2132-60 "METALLIC SILVER", FLAT FINISH ON GYP BD (UNLESS NOTED OTHERWISE).			REFER TO FINISH NOTES AND PAINT SPECIFICATIONS FOR SHEEN USED AT DIFFERENT APPLICATIONS ON THE PROJECT. REFER TO BENJAMIN MOORE PAINT REP FOR CLEANING AND PREP AND PRODUCT USED FOR DIFFERENT APPLICATIONS. PRIME AND TWO FINISH COATS MINIMUM (TINT PRIMER TO MATCH).	CFCI
PAINT	P-5	PAINT	BENJAMIN MOORE - #2133-50 "PIGEON GRAY", FLAT FINISH ON GYP BD (UNLESS NOTED OTHERWISE).			REFER TO FINISH NOTES AND PAINT SPECIFICATIONS FOR SHEEN USED AT DIFFERENT APPLICATIONS ON THE PROJECT. REFER TO BENJAMIN MOORE PAINT REP FOR CLEANING AND PREP AND PRODUCT USED FOR DIFFERENT APPLICATIONS. PRIME AND TWO FINISH COATS MINIMUM (TINT PRIMER TO MATCH).	CFCI
PAINT	P-6	PAINT	BENJAMIN MOORE - #1614 "DELRAY GRAY", FLAT FINISH ON GYP BD (UNLESS NOTED OTHERWISE).			REFER TO FINISH NOTES AND PAINT SPECIFICATIONS FOR SHEEN USED AT DIFFERENT APPLICATIONS ON THE PROJECT. REFER TO BENJAMIN MOORE PAINT REP FOR CLEANING AND PREP AND PRODUCT USED FOR DIFFERENT APPLICATIONS. PRIME AND TWO FINISH COATS MINIMUM (TINT PRIMER TO MATCH).	CFCI
PAINT	P-7	PAINT	BENJAMIN MOORE - #1613 "SILENT NIGHT", FLAT FINISH ON GYP BD (UNLESS NOTED OTHERWISE).			REFER TO FINISH NOTES AND PAINT SPECIFICATIONS FOR SHEEN USED AT DIFFERENT APPLICATIONS ON THE PROJECT. REFER TO BENJAMIN MOORE PAINT REP FOR CLEANING AND PREP AND PRODUCT USED FOR DIFFERENT APPLICATIONS. PRIME AND TWO FINISH COATS MINIMUM (TINT PRIMER TO MATCH).	CFCI
PAINT	P-8	PAINT	BENJAMIN MOORE - #2126-50 "GRAY TIMBER WOLF", FLAT FINISH ON GYP BD (UNLESS NOTED OTHERWISE).			REFER TO FINISH NOTES AND PAINT SPECIFICATIONS FOR SHEEN USED AT DIFFERENT APPLICATIONS ON THE PROJECT. REFER TO BENJAMIN MOORE PAINT REP FOR CLEANING AND PREP AND PRODUCT USED FOR DIFFERENT APPLICATIONS. PRIME AND TWO FINISH COATS MINIMUM (TINT PRIMER TO MATCH).	CFCI
PAINT	P-9	PAINT	BENJAMIN MOORE - #2134-50 "GULL WING GRAY", FLAT FINISH ON GYP BD (UNLESS NOTED OTHERWISE).			REFER TO FINISH NOTES AND PAINT SPECIFICATIONS FOR SHEEN USED AT DIFFERENT APPLICATIONS ON THE PROJECT. REFER TO BENJAMIN MOORE PAINT REP FOR CLEANING AND PREP AND PRODUCT USED FOR DIFFERENT APPLICATIONS. PRIME AND TWO FINISH COATS MINIMUM (TINT PRIMER TO MATCH).	CFCI
PAINT	P-10	PAINT	BENJAMIN MOORE - CUSTOM "BOBS-DOS" (MATCHED TO DRYVIT OYSTER SHELL), IN FLAT FINISH (UNLESS NOTES OTHERWISE)			REFER TO FINISH NOTES AND PAINT SPECIFICATIONS FOR SHEEN USED AT DIFFERENT APPLICATIONS ON THE PROJECT. REFER TO BENJAMIN MOORE PAINT REP FOR CLEANING AND PREP AND PRODUCT USED FOR DIFFERENT APPLICATIONS. PRIME AND TWO FINISH COATS MINIMUM (TINT PRIMER TO MATCH).	CFCI
PAINT	P-11	PAINT	BENJAMIN MOORE - CUSTOM "BOBS-DCM" (MATCHED TO DRYVIT CHOCOLATE MOUSSE), IN FLAT FINISH (UNLESS NOTES OTHERWISE)			REFER TO FINISH NOTES AND PAINT SPECIFICATIONS FOR SHEEN USED AT DIFFERENT APPLICATIONS ON THE PROJECT. REFER TO BENJAMIN MOORE PAINT REP FOR CLEANING AND PREP AND PRODUCT USED FOR DIFFERENT APPLICATIONS. PRIME AND TWO FINISH COATS MINIMUM (TINT PRIMER TO MATCH).	CFCI
PAINT	P-12	PAINT	BENJAMIN MOORE - ULTRA SPEC HP DTM GLOSS, IN COLOR "SAFETY YELLOW IM-15"		REAR BOLLARDS, GAS PIPE, ROOF HATCH, ROOF LADDER	REFER TO BENJAMIN MOORE PAINT REP FOR CLEANING AND PREPARATION AND PRIMER FOR DIFFERENT APPLICATIONS. PRIME AND TWO FINISH COATS MINIMUM (TINT PRIMER TO MATCH).	CFCI

ROOM FINISH SCHEDULE

NO.	SPACE	FLOOR	BASE	WALLS	CEILINGS		WAINSCOT	REMARKS
				ALL WALLS UNLESS NOTED OTHERWISE.	MATERIAL	HEIGHT		
001	ENTRY	LVT-1	NONE	ANODIZED ALUMINUM, GLASS, PTD GWB	P-1	O.T.S.		
002	DINING	LVT-1	VIN-B2	PTD GWB	P-1	O.T.S.		
003	UPHOLSTERY/LEATHER	LVT-1	VIN-B2	PTD GWB & WOOD TRIM	P-1	O.T.S.		
004	BEDROOMS	LVT-1	VIN-B2	PTD GWB & WOOD TRIM	P-1	O.T.S.		
004A	SLEEP CENTER	LVT-2	VIN-B1	PTD GWB & WOOD TRIM	P-1	O.T.S.		
005	KID'S	LVT-1	VIN-B2	PTD GWB & WOOD TRIM	P-1	O.T.S.		
006	RETAIL OFFICE	LVT-1	VIN-B2	PTD GWB & WOOD TRIM	P-1	O.T.S.		
007	HALL	LVT-1	VIN-B2	PTD GWB	ACT-1	9'-0"		
008	MANAGER/COUNT	LVT-1	VIN-B2	PTD GWB	ACT-1	9'-0"	CRK-1 SPLASH	SEE 1A/A6.0 F/A6.0
009	BREAKROOM	VCT-1	VIN-B2	PTD GWB	ACT-2	9'-0"	FRP-1 SPLASH	SEE 3/A6.0
010	DATA	VCT-1	VIN-B2	GWB	ACT-1	9'-0"	9' PTD FTP	
011	LOUNGE	LVT-2	-		P-1	O.T.S.		PREFINISHED PLAM-2 FIXTURE WITH FRP-2 SPLASH (BY OTHERS) SEE 4/A6.0
012	HALL	LVT-1	VIN-B2	PTD GWB	ACT-1	9'-0"		
013	UNISEX RESTROOM	PT-1	PT-2 & DILEX	⅝" CEMENT BOARD TO 5' / PTD WR GWB	ACT-2	9'-0"	5' TALL PT-2	SEE 6/A6.0, 2/A1.1, 8/A6.0, 3/A8.3
014	UNISEX RESTROOM	PT-1	PT-2 & DILEX	⅝" CEMENT BOARD TO 5' / PTD WR GWB	ACT-2	9'-0"	5' TALL PT-2	SEE 7/A6.0, 2/A1.1, 8/A6.0, 3/A8.3
015	JANITOR	VCT-1	VIN-B2	WR GWB	ACT-2	9'-0"	9' TALL FRP-1	
016	RECEIVING	CONC-S	NONE	EXISTING EXPOSED / PTD GWB	NONE	O.T.S.	4' TALL FTP	
017	ELEVATOR	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING		
018	ELEVATOR EQUIPMENT	CONC-S	NONE	EXISTING EXPOSED / GWB	EXISTING	EXISTING		
019	STAIR	STAIR-1	VIN-B2	PTD GWB	P-1	O.T.S.		
020	STAIR	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING		
021	STAIR	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING		
101	OUTDOOR	LVT-1	VIN-B2	PTD GWB	P-1	O.T.S.		
102	SPECIAL BUYS	LVT-1	VIN-B2	PTD GWB	P-1	O.T.S.		
103	STORAGE	CONC-S	NONE	PTD GWB	NONE	O.T.S.		
104	UNUSED	CONC-S	NONE	PTD GWB	P-1	O.T.S.		
105	UNUSED	CONC-S	NONE	PTD GWB	P-1	O.T.S.		
106	STAIR	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING		
107	STAIR	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING		

CERTIFICATION:

CT

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MELBOURNE, FL 32904

REVISION DATES

NO.	DATE	TYPE

ISSUE DATES

TYPE	DATE
PERMIT/CONSTRUCTION SET	08/14/26

DRAWN BY

CHECKED BY

PROJECT NUMBER
26-91020

DATE
08/14/2026

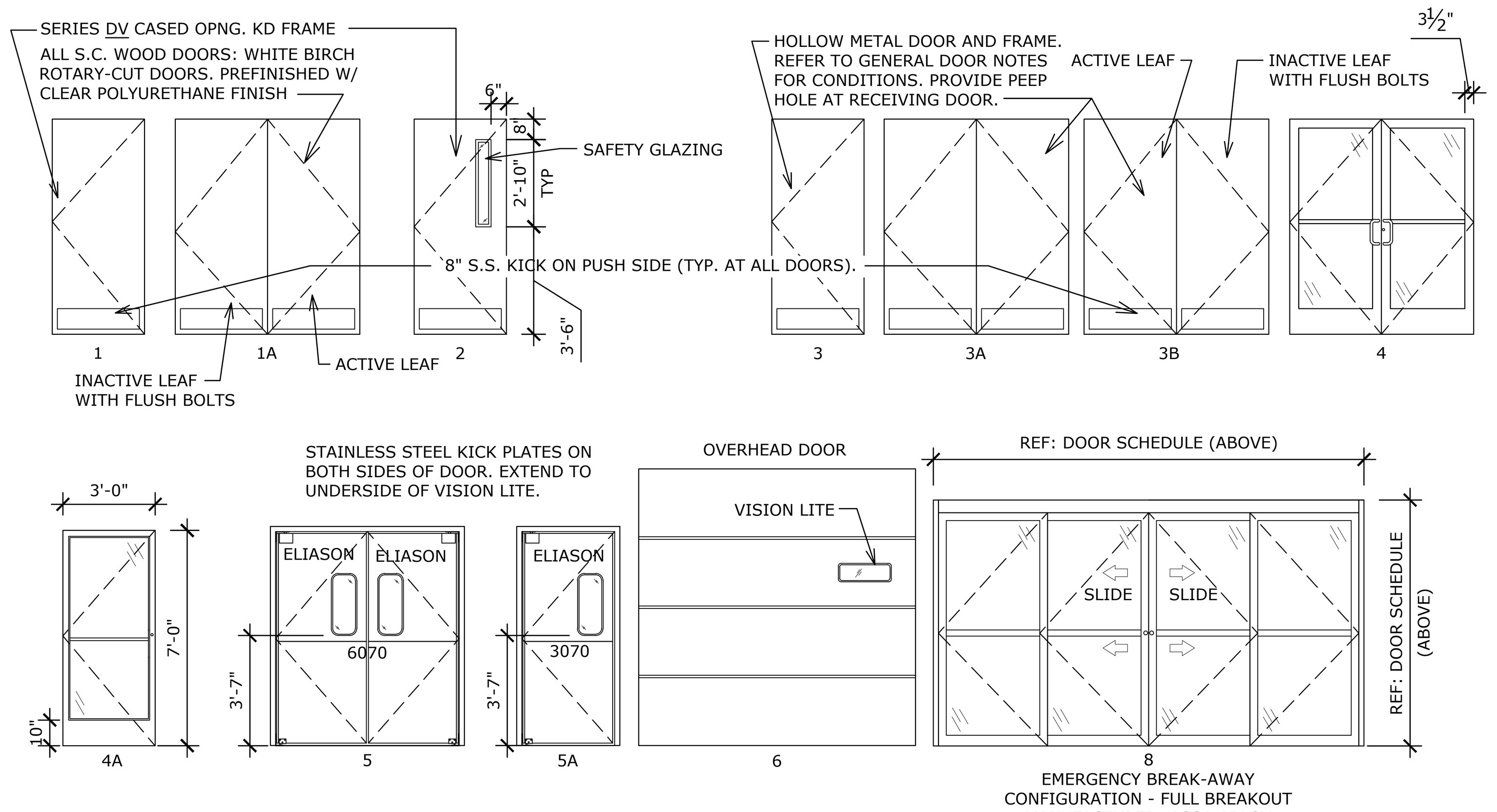
SHEET TITLE
FINISH SCHEDULE & NOTES

SHEET NUMBER
A8.0

DOOR SCHEDULE

E = EXISTING DOOR COORDINATE DOOR HARDWARE VIF

EXIST DOOR	NO.	TYPICAL LOCATION	TYPICAL DOOR SIZE W	H	T	TYPE	MATERIAL	VISION LITE	LABEL	FRAME MAT'L.	HARDWARE SET	KEY	REMARKS
	001A	VESTIBULE	7'-0"	8'-0"		8	ALUM. & 1" INSULATED GLASS	Y	---	ALUM.	**	Y	ASSA ABLOY AUTOMATIC (SL500) R92 WINDLOAD SLIDING DOOR SYSTEM WITH FULL BREAKOUT EGRESS SYSTEM. **INSTALL EXTERIOR VESTIBULE HARDWARE AND LOCKSET PER MANF. RECOMMENDATIONS.
	001B	VESTIBULE	7'-0"	8'-0"		8	ALUM. & 1" INSULATED GLASS	Y	--- ---	ALUM.	**	Y	ASSA ABLOY AUTOMATIC (SL500) R92 WINDLOAD SLIDING DOOR SYSTEM WITH FULL BREAKOUT EGRESS SYSTEM. **INSTALL EXTERIOR VESTIBULE HARDWARE AND LOCKSET PER MANF. RECOMMENDATIONS.
	004	BEDROOM SALES	3'-0"	7'-0"	1-3/4"	3	HM-STL.		---	H.M.	6A	Y	4" TOP FRAME
	008	MANAGER/COUNT	3'-0"	7'-0"	1-3/4"	2	S.C. WOOD & GLASS	Y	---	H.M.	1A	Y	TRILOGY T2 LOCKSET
	009	BREAKROOM	3'-6"	7'-0"	1-3/4"	2	S.C. WOOD & GLASS	Y	---	H.M.	3		
	010	DATA	3'-0"	7'-0"	1-3/4"	1	S.C. WOOD		---	H.M.	2A	Y	
	013	UNISEX	3'-0"	7'-0"	1-3/4"	1	S.C. WOOD		---	H.M.	4		UNDERCUT DOOR 1"
	014	UNISEX	3'-0"	7'-0"	1-3/4"	1	S.C. WOOD		---	H.M.	4		UNDERCUT DOOR 1"
	015	JANITOR	3'-0"	7'-0"	1-3/4"	1	S.C. WOOD		---	H.M.	2A	Y	UNDERCUT DOOR 1"
	016A	RECEIVING	(2)3'-0"	7'-0"	1-3/4"	5	*	Y	---		MFG		*ELIASON DOORS. MODEL P-11 PLUS, COLOR: GREY. DOUBLE-ACTING PUSH HARDWARE - NO LOCKSET INSTALL S.S. KICK PLATE FROM FLOOR TO UNDERSIDE OF VISION LITE. 2" FRAME ON TOP. ORDER DOOR WITH JAMB GUARDS. -PROVIDE SIGNAGE "NOT AN EXIT" - OR AS DIRECTED BY FIRE OFFICIAL.
	016B	CUSTOMER PICKUP	9'-0" VIF	10'-0" VIF	---	6	*	Y	---	---	---		HURRICANE RATED WAYNE DALTON THERMOSPAN 150 INSULATED SECTION OVERHEAD WITH VISION LITE AND 25,000 CYCLE SPRING NO POWER OPENER WITH SINGLE VISION LITE, STEP DOWN BRACKET, AND SLIDE BOLT WITH HOLE FOR PAD LOCK.
	016C	CUSTOMER PICKUP	9'-0" VIF	10'-0" VIF	---	6	*	Y	---	---	---		HURRICANE RATED WAYNE DALTON THERMOSPAN 150 INSULATED SECTION OVERHEAD WITH VISION LITE AND 25,000 CYCLE SPRING NO POWER OPENER WITH SINGLE VISION LITE, STEP DOWN BRACKET, AND SLIDE BOLT WITH HOLE FOR PAD LOCK.
	016D	REVEIVING	3'-0"	7'-0"	1-3/4"	3	HM-STL.		---	H.M.	6A	Y	4" TOP FRAME
	018	ELEVATOR EQUIPMENT	3'-0"	7'-0"	1-3/4"	1	S.C. WOOD		---	H.M.	2A	Y	
	020A	STAIRS	4'-0"	7'-0"	1-3/4"	3	HM-STL.		---	H.M.	6A	Y	NO EXTERIOR HARDWARE 4" TOP FRAME
	020B	STAIRS	4'-0"	7'-0"	1-3/4"	3	HM-STL.		---	H.M.	6A	Y	4" TOP FRAME
	021A	STAIRS	4'-0"	7'-0"	1-3/4"	3	HM-STL.		---	H.M.	6A	Y	NO EXTERIOR HARDWARE 4" TOP FRAME
	021B	STAIRS	4'-0"	7'-0"	1-3/4"	3	HM-STL.		---	H.M.	6A	Y	4" TOP FRAME
	103	STORAGE	(2)3'-0"	7'-0"	1-3/4"	5	*	Y	---		MFG		*ELIASON DOORS. MODEL P-11 PLUS, COLOR: GREY. DOUBLE-ACTING PUSH HARDWARE - NO LOCKSET INSTALL S.S. KICK PLATE FROM FLOOR TO UNDERSIDE OF VISION LITE. 2" FRAME ON TOP. ORDER DOOR WITH JAMB GUARDS. -PROVIDE SIGNAGE "NOT AN EXIT" - OR AS DIRECTED BY FIRE OFFICIAL.
	104	UNUSED	4'-0"	7'-0"	1-3/4"	1	S.C. WOOD		---	H.M.	2A	Y	
	105	UNUSED	4'-0"	7'-0"	1-3/4"	1	S.C. WOOD		---	H.M.	2A	Y	
	106	STAIRS	4'-0"	7'-0"	1-3/4"	3	HM-STL.		---	H.M.	6A	Y	NO EXTERIOR HARDWARE
	107	STAIRS	4'-0"	7'-0"	1-3/4"	3	HM-STL.		---	H.M.	6A	Y	NO EXTERIOR HARDWARE



TYPICAL DOOR ELEVATION BY TYPE N.T.S.

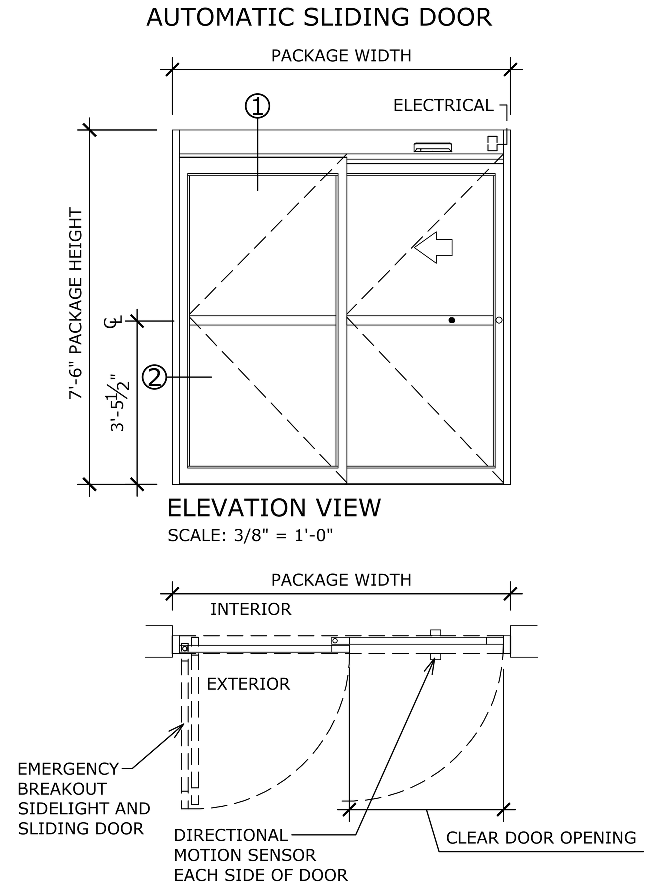
DOOR GENERAL NOTES

1. EXIT DOORS USED IN PAIRS SHALL BE EQUIPPED WITH AUTOMATIC FLUSH BOLTS. MANUALLY OPERATED EDGE BOLTS OR MANUAL SURFACE MOUNTED BOLTS ARE PROHIBITED. THE DOOR LEAF HAVING THE AUTOMATIC FLUSH BOLTS SHALL HAVE NO HARDWARE ON THE EXTERIOR FACE. THE UNLATCHING OF ANY LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION AND AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR AND UNOBSTRUCTED OPENING OF 32".
2. THE FLOOR OR LANDING SHALL NOT BE MORE THAN 1/2" LOWER THAN THE TOP OF THE THRESHOLD OF THE DOOR. CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A GRADIENT NO GREATER THAN 1:2.
3. TYPICAL FOR ALL INTERIOR WOOD ELEMENTS, ALL COMPOSITE WOOD SUBSTRATES SHALL BE "NO ADDED UREA FORMALDEHYDE (NAUF) FOR ALL WOOD INSIDE THE WATERPROOF MEMBRANE OF THE BUILDING.
4. ALL EXTERIOR STEEL DOOR FRAMES SHALL BE WELDED. ALL INTERIOR DOOR FRAMES SHALL BE (KD) KNOCKDOWN.
5. EXTERIOR METAL DOORS SHALL HAVE PANIC BARS FOR EGRESS AND INTERIOR DOOR HANDLE ONLY FOR SECURING THE DOOR (PULLING IT CLOSED).
6. ALL EXISTING METAL DOORS & DOOR FRAMES TO BE REPLACED (UNO).

SLIDING DOOR NOTES

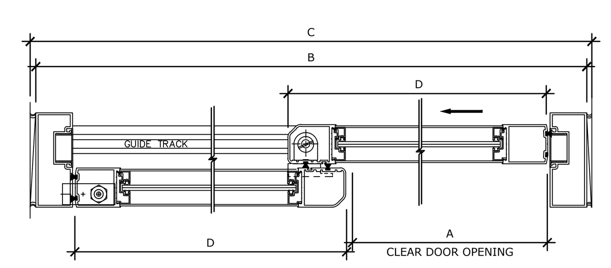
NOTES
1. ELECTRICAL REQUIREMENTS: BY ELECTRICAL CONTRACTOR
- 120 VAC, 15/20 AMP MIN TO POWER OPERATOR
- CONTROL CIRCUIT FROM SECURE ACTIVATION TO OPERATOR
2. ROUGH OPENING SHALL PROVIDE 1/4"[6] SHIM SPACE ON SIDES AND TOP OF PACKAGE.
3. LIMITS OF ACTIVATION AND SAFETY ZONES ARE FOR REFERENCE ONLY; SEE ANSI/BHMA A156.10 FOR DETAILED REQUIREMENTS.
4. SEE MANUFACTURER SPECIFICATIONS FOR ADDITIONAL INFORMATION.

ASSA ABLOY SL500
AUTOMATIC SLIDING DOOR

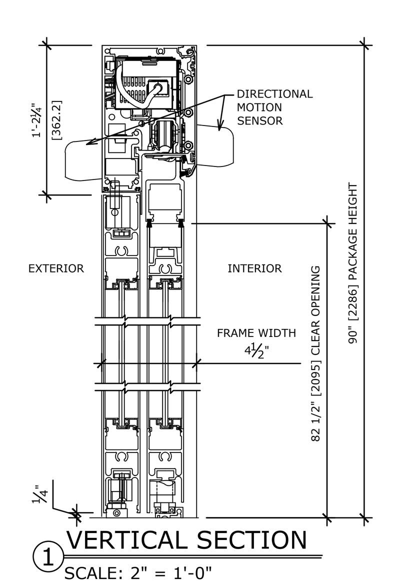


ELEVATION VIEW
SCALE: 3/8" = 1'-0"

PLAN VIEW
SCALE: 3/8" = 1'-0"



2 HORIZONTAL SECTION
SCALE: 2" = 1'-0"



1 VERTICAL SECTION
SCALE: 2" = 1'-0"

SL500 OHC	DOOR OPENING A	OVERALL FRAME WIDTH B	MASONRY OPENING WIDTH C	ACTIVE & SIDELITE LEAF WIDTH D
OC1-7	35 1/4" (895.4)	84" (2133.6)	84 1/2" (2146.3)	41 1/2" (1054.1)
OC1-8	41 1/4" (1047.8)	96" (2438.4)	96 1/2" (2451.1)	47 1/2" (1206.5)
OC1-8-6	44 1/4" (1124)	102" (2590.8)	102 1/2" (2603.5)	50 1/2" (1282.7)
OC1-9	47 1/4" (1200.2)	108" (2743.2)	108 1/2" (2755.9)	53 1/2" (1358.9)
KEY	(B/2)-6 3/4" (B/2)-(171.5)	(C-1/2") (C-12.7)	(B+1/2") (B+12.7)	(B/2)-1/2" (B/2)-(12.7)

NOTES:
1. CONTRACTOR DEVELOP MASTER KEYING SEQUENCE IN ACCORDANCE WITH OWNER'S REQUIREMENTS. PROVIDE KEYING SCHEDULE FOR REVIEW BY BOB'S FURNITURE.
2. ALL FINISH HARDWARE TO BE US26D/626 FINISH. U.N.O..
3. PROVIDE N.R.P. HINGES FOR ALL OUT-SWING EXTERIOR DOORS.
4. ALL INTERIOR WOOD DOORS SHALL BE SOLID CORE ROTARY CUT BIRCH. PRE-FINISHED W/CLEAR POLYURETHANE FINISH.
5. PROVIDE HANDICAP DOOR HARDWARE IN COMPLIANCE WITH THE ADA STANDARDS OF THE BUILDING CODE. TYPICAL.
6. ALL DOORS, INTERIOR AND EXTERIOR, TO HAVE 7-PIN CYLINDERS.
7. FOR INTO ROOM SWING DOORS - FASTEN CLOSER BODY TO DOOR ON PULL SIDE OF DOOR WITH WOOD SCREWS (NO SEX BOLTS) AND NO PARALLEL BAR. FOR OUT OF ROOM SWING DOORS (TYPICALLY JANITORS AND ELECTRIC) FASTEN CLOSER BODY TO DOOR ON PUSH SIDE OF DOOR WITH WOOD SCREWS (NO SEX BOLTS) WITH PARALLEL BAR. NO MORE THAN 12 LBS PULL RESISTANCE (EASY OPENING AND SOFT CLOSING).

HARDWARE SCHEDULE

HARDWARE SET #1 - INTERIOR WOOD SINGLE DOOR (MANAGERS/COUNT ROOM, OFFICE)- ENTRANCE FUNCTION (each opening to receive):

QTY	PART	MANUFACTURER	PART #	FINISH	SPECIAL INSTRUCTIONS
3 EA	HINGES:	MCKINNEY	MPB79 (US26D) 4.5" X 4.5"	626 (Satin Chromium), US26D	3 HINGES PER DOOR.
1 EA (VERIFY-SEE SPECIAL INSTRUCTION)	LOCKSET (OPTION - 1A):	ALARM LOCK SYSTEMS	TRILOGY T2 - DL2700IC/26D	626 (Satin Chromium), US26D	**MANAGERS/COUNT ROOM ONLY**: TRILOGY LOCKSET. CONTRACTOR IS TO INSTALL WITH A RED COLORED TEMPORARY INSTA-KEY 7-PIN REMOVABLE CORE AND CORE CHANGING KEY.
1 EA (VERIFY-SEE SPECIAL INSTRUCTION)	LOCKSET (OPTION - 1B):	ACCENTRA (YALE)	B-PB5407LN-626	626 (Satin Chromium), US26D	**OFFICE ONLY**: ENTRANCE FUNCTION - WITH A RED COLORED TEMPORARY INSTA-KEY 7-PIN REMOVABLE CORE AND CORE CHANGING KEY
1 EA	IC CORE	INSTAKEY	SFIC CORE 7 PIN		RED COLORED
1 EA	CLOSER:	CORBIN-RUSSWIN (CR)	(CR) DC6200	689 (Painted Silver)	FASTEN CLOSER BODY TO DOOR ON SWING SIDE OF DOOR WITH WOOD SCREWS (NO SEX BOLTS OR PARALEL BAR) AND JUST TO NO MORE THAN 12 LBS PULL RESISTANCE (EASY OPENING AND SOFT CLOSING).
1 EA	KICKPLATE:	ASSA ABLOY-ROCKWOOD	K1050 US32D 12 34 BEV	630 (Satin SS), US32D	ATTACHED TO THE PUSH SIDE OF THE DOOR 1/2" ABOVE THE BOTTOM, AND IN 1" FROM BOTH RIGHT AND LEFT EDGES THE DOOR.
1 EA	WALL STOP:	ASSA ABLOY-ROCKWOOD	400	626 (Satin Chromium), US26D	BEHIND DRYWALL AT DOOR BUMPER INSTALL 2X10 SOLID WOOD BACKING ADEQUETLY SECURED INTO THE WALL
1 EA	VISION LITE:	NATIONAL GUARD PRODUCTS (NGP)	L-FRA100-WG-G118 6x36 TAN	TAN - THEN FIELD PAINT WITH RUST-OLEAN SPRAY PAINT #7271830 - "SILVER	MOUNTED ON THE LATCH SIDE OF THE DOOR. SUPPLY AND INSTALL 1/4" CLEAR WIRE GLASS AND USE GLAZING TAPE TO PROTECT GLASS IN THE FRAME.
1 SET	SMOKE SEAL:	ASSA ABLOY -PEMKO	HSS2000xS88BL	BLACK (BL)	INSTALL AFTER FRAME IS PAINTED

HARDWARE SET #2 - INTERIOR WOOD SINGLE DOOR (DATA, ELECTRICAL, RISER, JANITORS, STORAGE) - STORE ROOM FUNCTION HARDWARE (each opening to receive):

QTY	PART	MANUFACTURER	PART #	FINISH	SPECIAL INSTRUCTIONS
3 EA	HINGES:	MCKINNEY	MPB79 (US26D) 4.5" X 4.5"	626 (Satin Chromium), US26D	3 HINGES PER DOOR
1 EA (VERIFY - SEE SPECIAL INSTRUCTION)	LOCKSET OPTION - 2A:	ASSA ABLOY ACCENTRA (YALE)	B-PB5405LN-626	626 (Satin Chromium), US26D	STORE ROOM FUNCTION - WITH A RED COLORED TEMPORARY INSTA-KEY 7-PIN REMOVABLE CORE AND CORE CHANGING KEY
1 EA (VERIFY - SEE SPECIAL INSTRUCTION)	EXIT DEVICE OPTION - 2B:	ALLEGION - VON DUPRIN WITH SEPARATE INSTAKEY CORE CYLINDER	22-L x 230L-06-SP28-3'	SP28 (Aluminum Paint)	** **WHERE REQUIRED BY CITY AT INTERIOR ELECTRICAL ROOM DOOR ONLY**** CONTRACTOR TO SUPPLY/INSTALL A RED COLORED TEMPORARY INSTA-KEY 7-PIN REMOVABLE COREAND CORE CHANGING KEY IN THE LEVER SIDE OF THE DOOR.
1 EA (VERIFY - SEE SPECIAL INSTRUCTION)	IC CORE	INSTAKEY	SFIC CORE 7 PIN	626 (Satin Chromium), US26D	****WHEN OPTION 2A & 2B - VON DUPRIN 22 PANIC DEVICE IS REQUIRED ONLY**** A RED COLORED TEMPORARY INSTA-KEY 7-PIN REMOVABLE CORE AND CORE CHANGING KEY AND CYLINDER RINGS STRAIGHT CAM.
1 EA	KICKPLATE:	ASSA ABLOY-ROCKWOOD	K1050 US32D 12 34 BEV	630 (Satin SS), US32D	ATTACHED TO THE PUSH SIDE OF THE DOOR 1/2" ABOVE THE BOTTOM, AND IN 1" FROM BOTH RIGHT AND LEFT EDGES THE DOOR.
1 EA	WALL STOP:	ASSA ABLOY-ROCKWOOD	400	626 (Satin Chromium), US26D	PROVIDE BACKING IN WALL.
3 EA	SILENCERS:	ASSA ABLOY-ROCKWOOD	608-RKW	GREY	INSTALL AFTER FRAME IS PAINTED

HARDWARE SET #3 - INTERIOR WOOD SINGLE DOOR (BREAKROOM (3'-6" wide door), MULTI-USER RESTROOM (3'-0" wide door) - PUSH-PULL HARDWARE (each opening to receive):

QTY	PART	MANUFACTURER	PART #	FINISH	SPECIAL INSTRUCTIONS
3 EA	HINGES:	MCKINNEY	MPB79 (US26D) 4.5" X 4.5"	626 (Satin Chromium), US26D	STANDARD DUTY BALL BEARING MORTISE HINGE
1 EA	PULL:	ASSA ABLOY-ROCKWOOD	107 X 70C	630 (Satin Stainless Steel), US32D	COUNTERSINK THE PULL BAR THROUGH BOLT SO PUSH PLATE ON THE OTHER SIDE OF DOOR COVERS OVER THE THROUGH BOLTS.
1 EA	PUSH:	ASSA ABLOY-ROCKWOOD	71C	630 (Satin Stainless Steel), US32D	MOUNT AFTER THE PULL IS INSTALLED TO COVER THE RECESSED PULL BAR THROUGH BOLTS.
1 EA	CLOSER:	CORBIN-RUSSWIN (CR)	(CR) DC6200	689 (Painted Silver)	FASTEN CLOSER BODY TO DOOR ON SWING SIDE OF DOOR WITH WOOD SCREWS (NO SEX BOLTS OR PARALEL BAR) AND JUST TO NO MORE THAN 12 LBS PULL RESISTANCE (EASY OPENING AND SOFT CLOSING).
1 EA (BREAKROOM ONLY)	VISION LITE:	NATIONAL GUARD PRODUCTS (NGP)	L-FRA100-WG-G118 6x36 TAN	TAN - THEN FIELD PAINT WITH RUST-OLEAN SPRAY PAINT #7271830 - "SILVER METALLIC"	****BREAKROOM ONLY****: MOUNTED ON THE LATCH SIDE OF THE DOOR. SUPPLY AND INSTALL 1/4" CLEAR WIRE GLASS AND USE GLAZING TAPE TO PROTECT GLASS IN THE FRAME.
1 EA (VERIFY - SEE SPECIAL INSTRUCTION)	KICKPLATE:	ASSA ABLOY-ROCKWOOD	**(RESTROOMS)** K1050 US32D 12x34 BEV, **(BREAKROOM)** K1050 US32D 12x40 BEV	630 (Satin SS), US32D	ATTACHED TO THE PUSH SIDE OF THE DOOR 1/2" ABOVE THE BOTTOM, AND IN 1" FROM BOTH RIGHT AND LEFT EDGES THE DOOR. ****BREAKROOM DOOR** IS A 3'-6" WIDE DOOR AND WILL GET A 40" WIDE KICK PLATE.**
1 EA	WALL STOP:	ASSA ABLOY-ROCKWOOD	400	626 (Satin Chromium), US26D	PROVIDE BACKING IN WALL.
3 EA	SILENCERS:	ASSA ABLOY-ROCKWOOD	608-RKW	GREY	INSTALL AFTER FRAME IS PAINTED

HARDWARE SET #4 - INTERIOR WOOD SINGLE DOOR (SINGLE OCCUPANT RESTROOM) - DORMITORY HARDWARE (each opening to receive):

QTY	PART	MANUFACTURER	PART #	FINISH	SPECIAL INSTRUCTIONS
3 EA	HINGES:	MCKINNEY	MPB79 (US26D) 4.5" X 4.5"	626 (Satin Chromium), US26D	STANDARD DUTY BALL BEARING MORTISE HINGE
1 EA	LOCKSET	ASSA ABLOY ACCENTRA (YALE)	B-PB5422LN-626	626 (Satin Chromium), US26D	**CORRIDOR FUNCTION:** WITH A RED COLORED TEMPORARY INSTA-KEY 7-PIN REMOVABLE CORE AND CORE CHANGING KEY.
1 EA	IC CORE	INSTAKEY	SFIC CORE 7 PIN		RED COLORED
1 EA	CLOSER:	CORBIN-RUSSWIN (CR)	(CR) DC6200	689 (Painted Silver)	FASTEN CLOSER BODY TO DOOR ON SWING SIDE OF DOOR WITH WOOD SCREWS (NO SEX BOLTS OR PARALEL BAR) AND JUST TO NO MORE THAN 12 LBS PULL RESISTANCE (EASY OPENING AND SOFT CLOSING).
1 EA	KICKPLATE:	ASSA ABLOY-ROCKWOOD	K1050 US32D 12 34 BEV	630 (Satin SS), US32D	ATTACHED TO THE PUSH SIDE OF THE DOOR 1/2" ABOVE THE BOTTOM, AND IN 1" FROM BOTH RIGHT AND LEFT EDGES THE DOOR.
1 EA	FLOOR STOP:	ASSA ABLOY-ROCKWOOD	481H	626 (Satin Chromium), US26D	REQUIRED FOR THE 1" ABOVE FS UNDERCUT DOOR.
3 EA	SILENCERS:	ASSA ABLOY-ROCKWOOD	608-RKW	GREY	INSTALL AFTER FRAME IS PAINTED

HARDWARE SCHEDULE

HARDWARE SET #6 - EXTERIOR PERIMETER HM SINGLE DOOR - EGRESS ALARMED PANIC FUNCTION HARDWARE (each opening to receive):

QTY	PART	MANUFACTURER	PART #	FINISH	SPECIAL INSTRUCTIONS
1 EA	SECURITY ASTRIGAL:	ASSA ABLOY-PEMKO	3572PP7ND	PRIME PAINTED (FIELD PRIME AND PAINT WITH DOOR)	WELD THE SECURITY ASTRIGAL TO THE ACTIVE DOOR TAKING CARE TO ACCOMMODATE THE REMAINING DOOR HARDWARE (I.E. TRIM TO ALLOW SWEEP TO PASS UNDER ASTRIGAL).
3 EA	HINGES:	MCKINNEY	MPB91 4.5" X 4.5" NRP US32D	SATIN STAINLESS STEEL, US32D (verify with BDF)	STANDARD DUTY BALL BEARING MORTISE HINGE
1 EA	THRESHOLD:	ASSA ABLOY	175A	A-MILL ALUMINUM (Verify with BDF)	SET AND ANCHOR THRESHOLD IN A SOLID BED OF "DOWSIL" CONCRETE SEALANT (OR EQUAL).
1 EA	DOOR DRIP:	ASSA ABLOY-PEMKO	346C	C- CLEAR ANODIZED ALUMINUM (field painted)	TO BE ORDERED 4" WIDER THAN THE OVERALL DOOR OPENING AND MOUNTED TO THE HM DOOR FRAME HEAD. PRIME AND PAINT TO MATCH EXTERIOR COLOR OF DOOR FRAME.
1 SET (VERIFY-SEE SPECIAL INSTRUCTION)	WEATHER-STRIPPING:	NATIONAL GUARD PRODUCTS	700N (CONTINUOUS HEAD AND BOTH LEGS)	MILL ALUMINUM	****INSTALL AFTER THRESHOLD IS INSTALLED AND DOOR IS HUNG, BUT BEFORE ALL OTHER DOOR HARDWARE.**** MOUNT TO HEAD AND BOTH DOOR FRAME LEGS. WEATHERSTRIP IS TO BE CONTINUOUS AND WITHOUT GAPS, DAYLIGHT, WEATHER, OR BUGS PASSING THROUGH. PANIC HARDWARE STRIKES, CLOSERS, BURGLAR CONTACTS, ETC. ARE TO MOUNT ON TOP OF THE WEATHERSTRIP SOLID ALUMINUM BAR BODY AFTER WEATHERSTRIP IS INSTALLED.
1 EA	KICKPLATE:	ASSA ABLOY-ROCKWOOD	K1050 US32D 12 34 BEV	630 (Satin SS), US32D	ATTACHED TO THE PUSH SIDE OF THE DOOR 1/2" ABOVE THE BOTTOM, AND IN 1" FROM BOTH RIGHT AND LEFT EDGES THE DOOR. INSTALL KICKPLATE AFTER DOOR IS PAINTED.
1 EA (VERIFY-SEE SPECIAL INSTRUCTION)	ALARMED EXIT DEVICE (OPTION -6A)	DETEX	ECL - 230X - IK7R - BG	GRAY	CONTRACTOR TO SUPPLY/INSTALL THE LOCKSET WITH A RED COLORED TEMPORARY INSTA-KEY 7-PIN REMOVABLE CORE AND CORE CHANGING KEY. BDF TO SUPPLY/INSERT PERMANAENT CORES AFTER CONSTRUCTION COMPLETION DATE. INSTALL AFTER DOOR IS PAINTED.
1 EA (VERIFY-SEE SPECIAL INSTRUCTION)	ALARMED EXIT DEVICE (OPTION -6B)	DETEX	ECL - 230X -TDB X 84"(VERIFY) BG X IK7R	GRAY	****SUPPLY AT HIGH RISK STORES ONLY.**** CONTRACTOR TO SUPPLY/INSTALL WITH A RED COLORED TEMPORARY INSTA-KEY 7-PIN REMOVABLE CORE AND CORE CHANGING KEY.. BDF TO SUPPLY/INSERT PERMANAENT CORES AFTER CONSTRUCTION COMPLETION DATE. INSTALL AFTER DOOR IS PAINTED.
1 EA	IC CORE	INSTAKEY	SFIC CORE 7 PIN		OPTION 6A & 6B RED COLORED
1 EA	PULL	ASSA ABLOY-ROCKWOOD	102-RKW X TYPE 6R-HD MOUNTING	630 (Satin SS), US32D	****INSTALL ON INTERIOR SIDE ONLY.**** CONTRACTOR TO INSTALL THE PULL ON THE INTERIOR SIDE OF DOOR LEAF TO ALLOW STORE TEAMS TO PULL DOOR SHUT FORCEFULLY TO ENSURE FULL CONTACT AND PROPER LATCHING. INSTALL VERTICALLY 4" ABOVE THE DETEX DEVICE AND 4" FROM THE DOOR EDGE
1 EA (VERIFY-SEE SPECIAL INSTRUCTION)	EXTERIOR PULL TRIM	DETEX	03PP	626 (Satin Chromium), US26D	****ONLY IF EXTERIOR ACCESS IS REQUIRED BY FIRE MARSHALL ON A DETEX HARDWARE DOOR**** CONTRACTOR TO SUPPLY/INSTALL THE PULL TRIM AND CYLINDER WITH A GREEN COLORED TEMPORARY INSTA-KEY 7-PIN REMOVABLE CORE AND CORE CHANGING KEY.
1 EA (VERIFY-SEE SPECIAL INSTRUCTION)	EXTERIOR SFIC RIM CYLINDER	KILEEN	308-26D	626 (Satin Chromium), US26D	
1 EA	CLOSER:	CORBIN-RUSSWIN (CR)	(CR) DC6210 (PARALLEL ARM)	689 (Painted Silver)	MOUNT ON PUSH SIDE OF THE DOOR WITH PARALLEL ARM AND ADJUST TO NO MORE THAN 12 LBS PULL RESISTANCE, AND A SLOW AND SOFT CLOSING.
1 EA (VERIFY-SEE SPECIAL INSTRUCTION)	DOOR VIEWER:	ASSA ABLOY-ROCKWOOD	622DCRM	DCRM (Dull Chrome) (verify with BDF)	****ONLY ON THE DOOR ADJACENT TO A DOOR BELL**** INSTALL CENTER OF THE DOOR AT 5' AFF.
1 EA (VERIFY-SEE SPECIAL INSTRUCTION)	WALL STOP:	ASSA ABLOY-ROCKWOOD	400	626 (Satin Chromium), US26D (Verify with BDF)	****ONLY WHERE STOP CAN BE MOUNTED TO A SOLID WALL CONDITION**** THIS IS THE PREFERRED METHOD (UNLESS NO SOLID WALL WITH CONDITION) MOUNT ON SOLID BRICK, CMU OR CONCRETE WALL. IF SOLID WALL IS NOT AVAILIBLE THEN USE FLOOR STOP
1 EA (VERIFY-SEE SPECIAL INSTRUCTION)	FLOOR STOP:	ASSA ABLOY-ROCKWOOD	481H	626 (Satin Chromium), US26D (Verify with BDF)	****ONLY IF WALL MOUNT CONDITION IS NOT ON A SOLID WALL**** MOUNT AS CLOSE TO THE WALL AS POSSIBLE TO KEEP DOOR AND HARDWARE FROM HITTING THE WALL.
1 EA	SWEEP	ASSA ABLOY-PEMKO	3452CNB TKSP8	CLEAR ALUMINUM (Verify with BDF)	INSTALL AFTER DOOR IS PAINTED ON EXTERIOR.

HARDWARE SET #9 - EXTERIOR PERIMETER HM DOUBLE DOOR - CUSTOMER PICKUP WITH 4' ACTIVE AND 2' INACTIVE DOOR (each opening to receive):

QTY	PART	MANUFACTURER	PART #	FINISH	SPECIAL INSTRUCTIONS
1 EA	SECURITY ASTRIGAL:	ASSA ABLOY-PEMKO	357SPND96	PRIME PAINTED (FIELD PRIME AND PAINT WITH DOOR)	WELD THE SECURITY ASTRIGAL TO THE ACTIVE DOOR TAKING CARE TO ACCOMMODATE THE REMAINING DOOR HARDWARE (I.E. TRIM TO ALLOW SWEEP TO PASS UNDER ASTRIGAL).
2 EA	HINGES:	ASSA ABLOY - PEMKO	CFM95HD1 SLF C	C- CLEAR ANODIZED ALUMINUM	HEAVY DUTY FULL MORTISE GEARED CONTINUOUS HINGE
1 EA	DOOR DRIP:	ASSA ABLOY -PEMKO	346C	C- CLEAR ANODIZED ALUMINUM (field painted)	TO BE ORDERED 4" WIDER THAN THE DOOR OPENING AND MOUNTED TO THE HM DOOR FRAME HEAD. PRIME AND PAINT TO MATCH EXTERIOR COLOR OF DOOR FRAME.
1 EA	THRESHOLD:	ASSA ABLOY -PEMKO	175A	A-MILL ALUMINUM (Verify with BDF)	SET AND ANCHOR THRESHOLD IN A SOLID BED OF "DOWSIL" CONCRETE SEALANT (OR EQUAL).
1 SET (SEE SPECIAL INSTRUCTION)	WEATHER-STRIPPING:	NATIONAL GUARD PRODUCTS	700N (CONTINUOUS HEAD AND BOTH LEGS)	MILL ALUMINUM	****INSTALL AFTER THREASHOLD IS INSTALLED AND DOOR IS HUNG, BUT BEFORE ALL OTHER DOOR HARDWARE.**** MOUNT TO HEAD AND BOTH DOOR FRAME LEGS. WEATHERSTRIP IS TO BE CONTINUOUS AND WITHOUT GAPS, DAYLIGHT, WEATHER, OR BUGS PASSING THROUGH. PANIC HARDWARE STRIKES, CLOSERS, BURGLAR CONTACTS, ETC. ARE TO MOUNT ON TOP OF THE WEATHERSTRIP SOLID ALUMINUM BAR BODY AFTER WEATHERSTRIP IS INSTALLED.
2 EA	KICKPLATE:	ASSA ABLOY-ROCKWOOD	K1050 US32D BEV	630 (Satin SS), US32D	****INSTALL AFTER THE DOOR IS PAINTED AND BEFORE THE OTHER HARDWARE ON THE SURFACE OF THE DOOR**** .050" THICK STAINLESS STEEL KICKPLATE ATTACHED TO THE PUSH SIDE OF THE DOOR 1/2" ABOVE THE BOTTOM, AND IN 1" FROM BOTH RIGHT AND LEFT EDGES THE DOOR.
1 EA (ON 4' ACTIVE DOOR)	ALARMED EXIT DEVICE (OPTION -9A)	DETEX	ECL - 230X - IK7R - BG	626 (Satin Chromium), US26D	ON ACTIVE DOOR. CONTRACTOR TO SUPPLY/INSTALL THE DEVICE WITH A RED COLORED TEMPORARY INSTA-KEY 7-PIN REMOVABLE CORE AND CORE CHANGING KEY. BDF TO SUPPLY/INSERT PERMANAENT CORES AFTER CONSTRUCTION COMPLETION DATE. INSTALL AFTER DOOR IS PAINTED.
1 EA (SEE SPECIAL INSTRUCTIONS - ON 4' ACTIVE DOOR)	ALARMED EXIT DEVICE (OPTION -9B)	DETEX	ECL - 230X -TDB X 96"(VERIFY) BG X IK7R	GRAY	****SUPPLY AT HIGH RISK STORES ONLY.**** CONTRACTOR TO SUPPLY/INSTALL THE LOCKSET WITH A RED COLORED TEMPORARY INSTA-KEY 7-PIN REMOVABLE CORE AND CORE CHANGING KEY. BDF TO SUPPLY/INSERT PERMANAENT CORES AFTER CONSTRUCTION COMPLETION DATE. INSTALL AFTER DOOR IS PAINTED.
1 EA	INTERIOR CYLINDER	INSTAKEY	1K7R		WITH RED COLORED INSTA-KEY 7-PIN REMOVABLE CORE
1 EA (VERIFY - SEE SPECIAL INSTRUCTION)	EXTERIOR PULL TRIM	DETEX	03PP	626 (Satin Chromium), US26D	****ONLY IF EXTERIOR ACCESS IS REQUIRED BY FIRE MARSHAL ON A DETEX HARDWARE DOOR**** CONTRACTOR TO SUPPLY/INSTALL THE PULL TRIM AND CYLINDER WITH A RED COLORED TEMPORARY INSTA-KEY 7-PIN REMOVABLE CORE AND CORE CHANGING KEY. BDF TO SUPPLY/INSERT PERMANAENT CORES AFTER CONSTRUCTION COMPLETION DATE.
1 EA (VERIFY - SEE SPECIAL INSTRUCTION)	EXTERIOR CYLINDER	INSTAKEY	IK7R		****ONLY IF EXTERIOR ACCESS IS REQUIRED BY FIRE MARSHAL ON A DETEX HARDWARE DOOR**** WITH A RED COLORED INSTA-KEY 7-PIN REMOVABLE CORE
1 EA	PULL	ASSA ABLOY-ROCKWOOD	102-RKW X TYPE 6R-HD MOUNTING	630 (Satin SS), US32D	****INSTALL ON INTERIOR SIDE ONLY.**** CONTRACTOR TO INSTALL THE PULL ON THE INTERIOR SIDE OF ACTIVE 4' DOOR LEAF TO ALLOW STORE TEAMS TO PULL DOOR SHUT FORCEFULLY TO ENSURE FULL CONTACT AND PROPER LATCHING. INSTALL VERTICALLY 4" ABOVE THE DETEX DEVICE AND 4" FROM THE DOOR EDGE.
2 EA (TOP AND BOTTOM ON 2' INACTIVE DOOR)	MANUAL FLUSH BOLTS:	ASSA ABLOY-ROCKWOOD	555 w/24" ROD LENGTH TOP 555 w/12" ROD LENGTH BOTTOM	626 (Satin Chromium), US26D	A TOP AND BOTTOM SET FOR NON-ACTIVE DOOR ONLY
2 EA (ONE ON EACH DOOR)	CLOSER:	CORBIN-RUSSWIN (CR)	(CR) DC6210xA2XM54X689 (PARALLEL ARM) INCLUDE HOLD OPEN OPEN FOR BOTH DOORS	689 (Painted Silver)	MOUNT ON PUSH SIDE OF THE DOOR WITH PARALLEL ARM AND ADJUST TO NO MORE THAN 12 LBS PULL RESISTANCE, AND A SLOW AND SOFT CLOSING. HOLD OPEN OPTION FOR BOTH DOORS.
1 EA	SEAL (BETWEEN DOORS AT ASTRIGAL):	ASSA ABLOY -PEMKO	HSS2000XS88	BLACK	INSTALL AFTER PAINT
2 EA (VERIFY SOLID WALL CONDITION ONLY)	WALL STOP:	ASSA ABLOY-ROCKWOOD	400	626 (Satin Chromium), US26D (verify with PDF)	BEHIND DRYWALL AT DOOR BUMPER INSTALL 2X10 SOLID WOOD BACKING ADEQUETLY SECURED INTO THE WALL FRAMING
2 EA (VERIFY ONLY IF NO SOLID WALLS)	FLOOR DOOR STOP:	ASSA ABLOY-ROCKWOOD	481H	626 (Satin Chromium), US26D (verify with PDF)	****ONLY IF WALL MOUNT CONDITION IS NOT ON A SOLID WALL**** MOUNT AS CLOSE TO THE WALL AS POSSIBLE TO KEEP DOOR AND HARDWARE FROM HITTING THE WALL.
2 EA	SWEEP	ASSA ABLOY -PEMKO	3452CNB TKSP8	C- CLEAR ANODIZED ALUMINUM	INSTALL AFTER DOOR IS PAINTED ON EXTERIOR.
1 EA	DOOR VIEWER:	ASSA ABLOY-ROCKWOOD	622	STNN (Satin Chromium) (Verify with BDF)	INSTALL CENTER OF THE ACTIVE DOOR AT 5' AFF.
2 EA	KICK DOWN DOOR STOP:	ASSA ABLOY-ROCKWOOD	461L	626 (Satin Chromium), US26D (verify with PDF)	MOUNT ONE ON EACH DOOR

CERTIFICATION:

CT

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REVISION DATES

NO.	DATE	TYPE

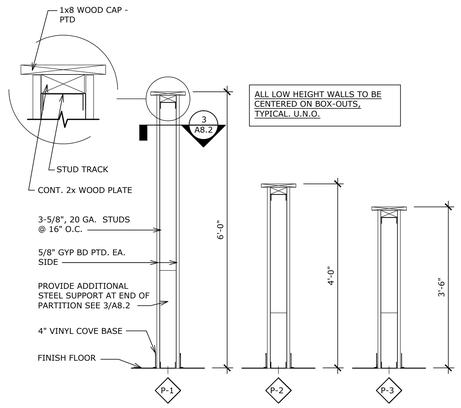
ISSUE DATES

TYPE	DATE
PERMIT/CONSTRUCTION SET	08/14/26

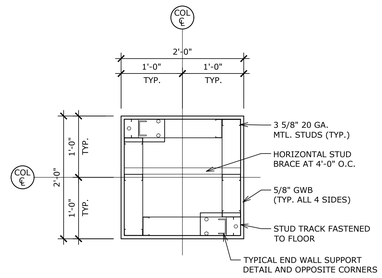
DRAWN BY
CHECKED BY
PROJECT NUMBER 26-91020
DATE 08/14/2026
SHEET TITLE
DOOR SCHEDULE & NOTES
SHEET NUMBER
A8.1

DISPLAY PARTITION SCHEDULE

SYMBOL	DESCRIPTION	LOCATION	REMARKS
P-1	HALF HEIGHT PARTITION - 6'-0" A.F.F. SEE SECTIONS 1/A8.2. 3 5/8" X 20 GA. MTL STUDS @ 16" O.C. W/ ONE LAYER 5/8" G.W.B. EACH SIDE & EDGES.	BEDROOMS SLEEP CENTER	PROVIDE ADDITIONAL STEEL SUPPORT; SEE DETAIL 3/A8.2
P-2	HALF HEIGHT PARTITION - 4'-0" A.F.F. SEE SECTIONS 1/A8.2. 3 5/8" X 20 GA. MTL STUDS @ 16" O.C. W/ ONE LAYER 5/8" G.W.B. EACH SIDE & EDGES.	UPHOLSTERY/ MOTION/ LEATHER	PROVIDE ADDITIONAL STEEL SUPPORT; SEE DETAIL 3/A8.2
P-3	HALF HEIGHT PARTITION - 3'-6" A.F.F. SEE SECTIONS 1/A8.2. 3 5/8" X 20 GA. MTL STUDS @ 16" O.C. W/ ONE LAYER 5/8" G.W.B. EACH SIDE & EDGES.	UPHOLSTERY/ MOTION/ LEATHER	PROVIDE ADDITIONAL STEEL SUPPORT; SEE DETAIL 3/A8.2

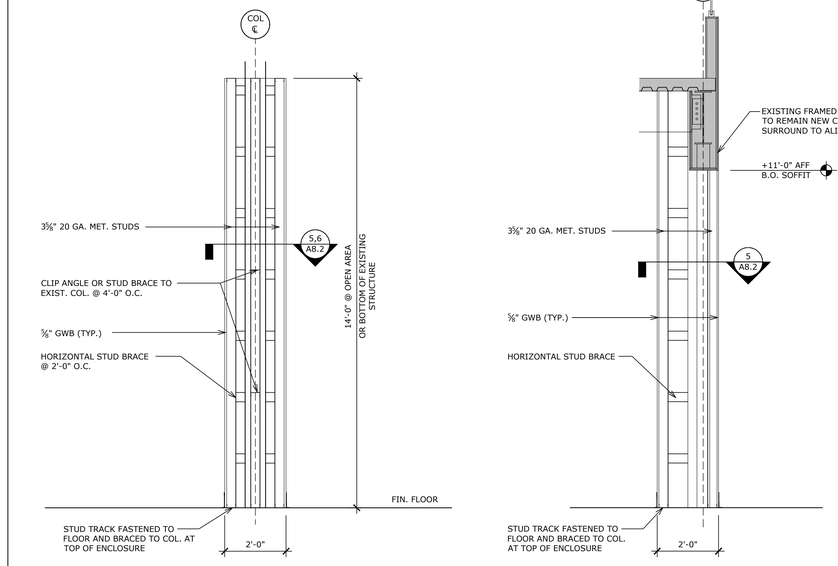


1 TYPICAL PARTITION SCHEDULE — SCALE: 3/4" = 1'-0"



6 FREESTANDING BOX OUT — SCALE: 1" = 1'-0"

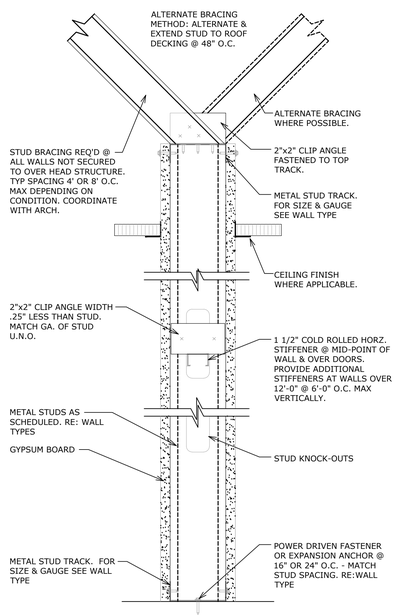
8 NOT USED — SCALE: 1" = 1'-0"



2 COLUMN SURROUND — SCALE: 1/2" = 1'-0"

3 END WALL SUPPORT DETAIL — SCALE: 3" = 1'-0"

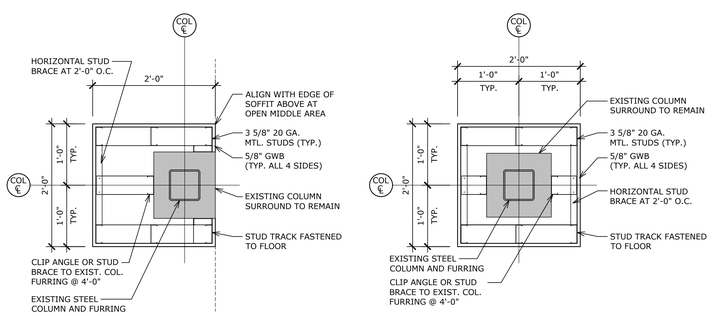
9 NOT USED — SCALE: 1" = 1'-0"



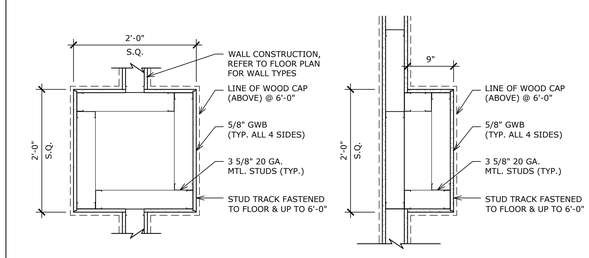
NOTE:
WHERE DISTANCE FROM TOP OF STUD EXCEEDS 6' TO ROOF STRUCTURE BRACING SHALL BE INCREASED BY MEANS OF INCREASED SPACING OR SISTERED DOUBLE STUDS / BOXED STUDS. COORDINATE EXACT SITE SPECIFIC REQUIREMENTS WITH ARCHITECT

7 WALL BRACING DETAIL — SCALE: ¼" = 1'-0"

10 NOT USED — SCALE: 1" = 1'-0"



5 BOX OUT AT COLUMN — SCALE: 1" = 1'-0"



4 SECTION AT FREE STANDING FRAMED COLUMN — SCALE: 1" = 1'-0"

CERTIFICATION:

CT

CAMBURAS & THEODORE, LTD
ARCHITECTURE | ENGINEERING | INTERIORS
2454 E. Dempster St. Suite 202
Des Plaines, IL 60016
P (847)298-1525 | F (847)390-8130
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3401 W NEW HAVEN AVE.
MELBOURNE, FL 32904

REVISION DATES

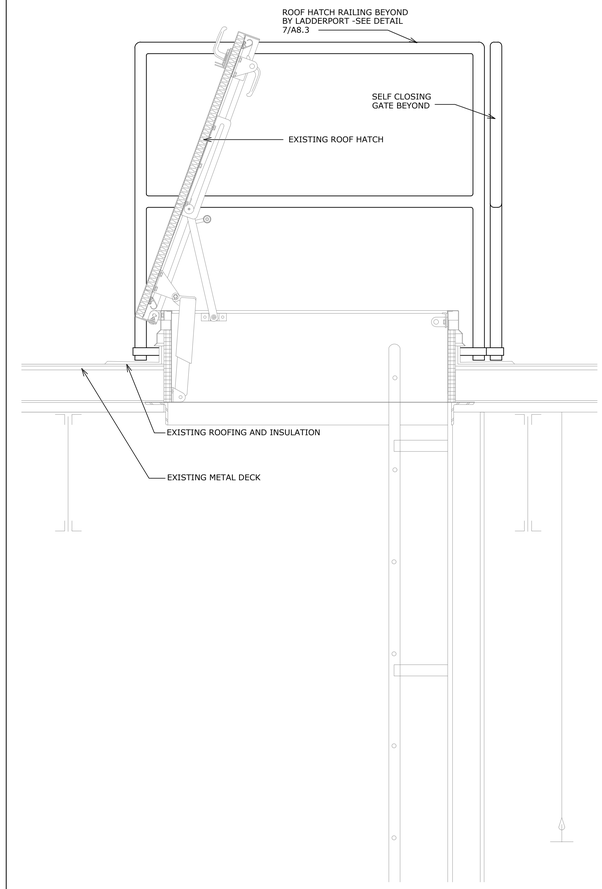
NO.	DATE	TYPE

ISSUE DATES

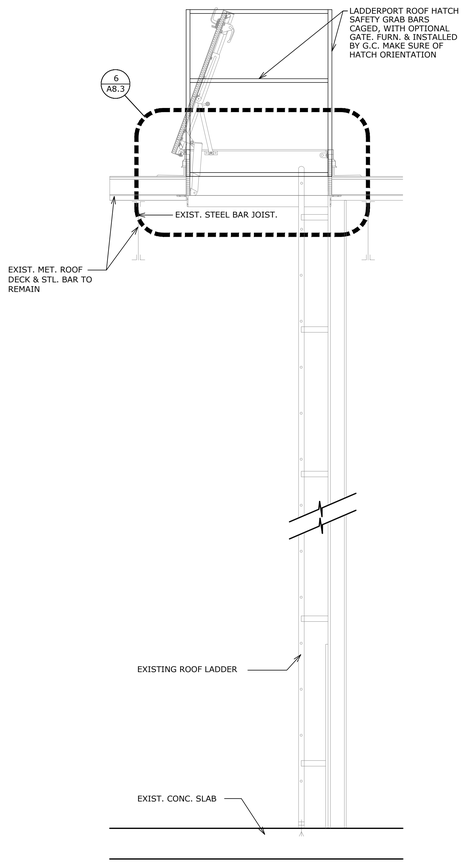
TYPE	DATE
PERMIT/CONSTRUCTION SET	08/14/26

DRAWN BY
CHECKED BY
PROJECT NUMBER 26-91020
DATE 08/14/2026
SHEET TITLE PARTITION SCHEDULES & DETAILS
SHEET NUMBER A8.2

1 NOT USED



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

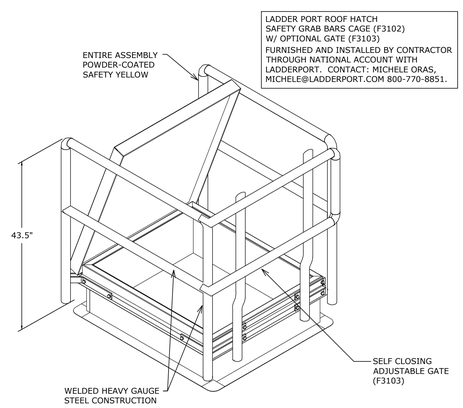


4 ROOF LADDER SECTION SCALE: 3/4" = 1'-0"

2 NOT USED SCALE: 3" = 1'-0"

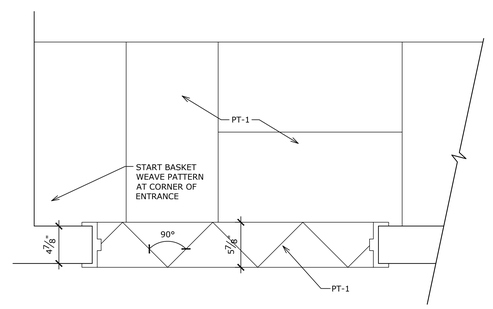
8 NOT USED SCALE: 3" = 1'-0"

9 NOT USED SCALE: 3" = 1'-0"



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

5 NOT USED SCALE: 3/4" = 1'-0"



3 TILE TERMINATION DETAIL @ RESTROOMS SCALE: 1 1/2" = 1'-0"

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MELBOURNE, FL 32904

REVISION DATES

NO.	DATE	TYPE

ISSUE DATES

TYPE	DATE
PERMIT/CONSTRUCTION SET	08/14/26

DRAWN BY

CHECKED BY

PROJECT NUMBER
26-91020

DATE
08/14/2026

SHEET TITLE
STANDARD DETAILS

SHEET NUMBER
A8.3

DIVISION 1 GENERAL REQUIREMENTS

Section 1A General Conditions of the Contract for Construction, AIA DOCUMENT A201, 2007 Edition and Supplementary General Conditions pertaining to the Project shall apply.

Section 1B SUPPLEMENTARY CONDITIONS

1. The scope of work includes all labor, materials, tools, etc. required to complete the intent of the drawings including mechanical, electrical and plumbing work.

2. All work shall be done in accordance with all relevant codes, ordinances, and laws as listed on Cover Sheet CS1.1. Contractor shall obtain and pay for all permits and arrange for all inspections.

3. The Contractor shall visit the site and become familiar with the Project area. He shall inform the Architect and Owner of any discrepancies before starting the work and during construction. He shall verify existing dimensions, and establish and maintain bench marks for the layout of the work. The Contractor shall employ the services of a licensed Surveyor or a Civil Engineer, if required, for the placement and layout of elements on the site.

4. It is the responsibility of the Contractor to keep the building weathertight, provide dust protection, erect and maintain all barricades, shoring, bracing and other safety measures required to protect the building and its occupants, throughout the construction.

5. The Contractor shall obtain and pay for comprehensive liability insurance covering the entire work and compensation insurance in accordance with applicable current laws. The Contractor shall have full charge of the work until completion and shall bear responsibility for property which may be damaged or stolen while this work is in progress, including stored materials. Form of insurance mentioned above shall be acceptable to the Owner.

6. Upon completion of the work, the Contractor shall completely clean the Project. All areas shall be dusted, washed, vacuumed etc. as appropriate. The entire Project shall be left clean and ready for the Owner's use. All debris, surplus materials, scaffolding, etc. shall be removed from the site and disposed of in a legal manner.

7. The Contractor shall arrange for temporary utilities, as required, to the Project site as well as coordinate the requirements of various utility companies for services to the building and their inspections.

8. The Contractor shall provide adequate refuse receptacles on the site so as to dispose of construction debris in a legal manner. No burning shall be allowed.

9. The Contractor shall receive submittals of manufacturers catalog data, warranties, or guarantees, operating instructions, etc. from the Subcontractors and turn the same over to Owner at the completion of construction. He shall also receive submittals of Shop Drawings or manufactures installation data for submission to the Owner for his review and action.

10. The Contractor shall provide for all cutting and patching for the installation of new building elements.

Section 1C DEMOLITION (REFER ALSO TO DEMOLITION NOTES, SHEET D1.1)

A. Remove portions of construction as shown on the drawings, including plumbing and electrical fixtures and trim. Demolish all items completely including sub-frames and fasteners, and remove from the site. Use such methods as required to complete the work within the limitations of governing codes and without damage to existing areas to remain. When possible remove finish materials to next joint or corner.

B. Clean adjacent areas of dust, dirt, and debris caused by demolition operations, as directed by the Owner's representative. Return adjacent areas to condition existing prior to the start of the work. Where possible, salvage existing finish materials for reuse where new work abuts existing finishes to remain.

C. Safe off any existing mechanical or electrical systems to remain adjacent to work being demolished. At no time shall "live" lines be left exposed. Continue services to those areas of the building occupied during the course of demolition and construction work. Co-ordinate unavoidable shut-downs with Owner's Representative.

D. Provide non-shrink grout or patching compound for repair of concrete floor slab. Grout shall be "Euco NS" or "Firmmix", and patching compound shall be Ardex K-15, or approved equal from Sika Chemical Corp. FINISHED FLOOR PLANE SHALL NOT VARY MORE THAN 1/4" IN 10'-0".

E. Patch and repair existing surfaces of all disturbed areas true to plane and ready to receive new work. Comply with recommendations of manufacturers supplying covering finish materials. Leave patched areas smooth, even, true to plane, and ready to receive new construction.

F. Refer to Specific Demolition Notes and Key Notes, on the Drawings, for additional information.

SECTION 01700 - CONTRACT CLOSEOUT

1. During the progress of the work maintain a set of drawings at the project site for preparing record drawings. Neatly record all changes in the work and record specific locations of work shown schematically on the drawings. In addition, record the following on mechanical and electrical drawings:

   a. Location of concealed water and electrical services. water piping, sewers. wastes, vents, ducts, conduit and other piping by indication of measured dimensions to such line from readily identifiable and accessible walls or corners of buildings.

   b. Invert elevations of sewers and top of water lines.

2. Submit the record drawings to Owner for approval with the Punch List and written notice that the work is ready for verification of substantial completion required in the General Conditions. If Owner determines that the drawings are incomplete or incorrect in any way, he will advise Contractor of the required corrections and Contractor shall promptly submit corrected drawings. Record documents shall be delivered to Owner prior to final payment for the work.

3. Prepare three (3) complete sets of manuals containing the manufacturer's instructions for operation and maintenance of each item of equipment, apparatus and operational system furnished under the Contract and any additional data specifically required in the specification sections.

   a. Manuals shall be bound with covers of durable material, arranged in the sequence of the specification sections and shall include the following:

      1) Neatly typewritten index.

      2) Complete instructions regarding operation. service and maintenance including lubrication, disassembly and reassembly.

      3) Complete nomenclature of all parts and part numbers of all replaceable parts.

      4) Complete list of sources to be contacted for service and replacement parts including names, addresses and all other pertinent data regarding procurement procedure.

      5) Copy of all required guarantees and warranties.

      6) Manufacturers' bulletins, cuts, and descriptive data clearly indicating the precise items included in this installation and deleting, or otherwise clearly indicating, all manufacturers' data with which this installation is not concerned.

      7) Any other data required in the specification sections.

   b. The operating and maintenance manuals shall be delivered to the Owner prior to final payment for the work.

   c. If requested by Owner, give physical demonstrations and oral instructions for the operation of equipment, apparatus and operational systems furnished under the contract. Such demonstrations and instructions shall be given to Owner and/or others as Owner may choose.

4. In addition to the equipment information listed in Item 3 above, the Contractor shall include in the project manual the following:

   a. General Contractor's 1-year written guarantee.

   b. All final lien waivers.

   c. Copy of Certificate of Occupancy.

   d. Copy of signed off permit card.

   e. List of subcontractors with names of contact person and phone numbers.

   f. Soil poisoning warranty.

   g. Roof warranty.

   h. All test results (soils, concrete, etc.)

   i. As-built drawings.

5. Assemble all guarantees, warranties and assignments thereof as required by the General Conditions and the specification sections. The guarantees, warranties and assignments shall be delivered to the Owner prior to final payment for the work.

SECTION 01710 - CLEANING

1. All cleaning shall be the responsibility of the Contractor unless specifically noted otherwise.

2. Maintain premises and public properties free from accumulations of waste, debris and rubbish caused by operations.

3. At completion of work, remove waste materials, rubbish, tools. equipment, machinery and surplus materials and clean all sight exposed surfaces; leave project clean and ready for occupancy.

4. Maintain project in accord with Occupational Safety & Health Act of 1970. as amended, in terms of clean-up.

5. Conduct cleaning and disposal operations to comply with local ordinances and anti-pollution laws.

   1. Do not burn or bury rubbish and waste materials on project site.

   2. Do not dispose of volatile wastes such as mineral spirits, oil or paint thinner in storm or sanitary drains.

6. During Construction

   a. Execute cleaning to ensure that roadway, walks, grounds and public properties are maintained free from accumulations of waste materials and rubbish.

   b. Wet down dry materials and rubbish to lay dust and prevent blowing dust.

   c. Provide on-site containers for collection of waste materials, debris and rubbish.

   d. Remove waste materials, debris and rubbish from site and legally dispose of at public or private dumping area off Owner's property.

      1) Accumulation of loose material, trash, rubbish and debris will not be permitted.

      2) Each contractor shall be required to dispose of waste materials on a regular basis.

7. Final Cleaning

   a. In preparation for occupancy, conduct final inspection of sight-exposed interior and exterior surfaces and of concealed spaces.

   b. Remove grease, dust, dirt, stains,labels, fingerprints and other foreign materials from sight-exposed interior and exterior finished surfaces; polish surfaces so designated to a shiny finish.

   c. Repair, patch and touch-up marred surfaces to specified finish, to match adjacent surfaces.

   d. Remove all foreign materials from roof and site area.

   e. Perform all final cleaning, including the following:

      1) Employ experienced workmen or professional cleaners for final cleaning.

      2) Wash and clean all glass, removing labels and paint.

      3) Broom clean paved surfaces; rake clean other surfaces of grounds.

      4) Clean all floor surfaces of dirt and dust.

   f. Respective contractors shall perform cleaning of their equipment.

   g. All strainers and floor drains in respective pipe work shall be cleaned.

   h. Replace burned out or inoperative lighting lamps.

   i. Owner will assume responsibility for cleaning as of time designated on Certificate of Final Acceptance. Conditional Acceptance or partial occupancy, whichever is first, for Owner's acceptance of Project or portion thereof.

DIVISION 2 - SITEWORK (Applicable to new building or building additions. These specifications are sub-ordinate to new building site plans.)

SECTION 01300 - SHOP DRAWINGS, PRODUCT DATA AND SAMPLE SUBMITTALS

1.0 GENERAL

A. There shall be a full submission of Shop Drawings and/or Product Data and/or Samples for each Section as required by the Contract Documents.

B. Designate in the construction schedule, or in a separate coordinated schedule, the dates for submission and the dates that reviewed Shop Drawings, Product Data and Samples will be required.

1.1 SUBMITTAL PROCESS

A. General Contractor shall review the Contract Specifications and submit a list of all submittals to be processed for the project. These items are to be included on the project schedule.

B. Submit data/shop drawings to Architect/Engineers a minimum of 4 weeks before the accepted submittal is required or earlier as required by the General Contractor's schedule.

C. Submittal shall include a submittal cover sheet is to be used for Contractor review stamps and comments. Vendor, Subcontractor and General Contractor shall sign that the submittal is complete (unless noted otherwise) and that the item complies with the contract documents (unless noted otherwise). A copy of the cover sheets will be sent to the Developer at the time of original submission and any subsequent submission.

D. All submittals to be returned as "Reviewed", "Revise and Resubmit", "Rejected" or "Furnish as Corrected". The Architect/Engineers will mark the submittal and summarize the comments in the comment section provided on the cover sheets, drawings or other cover sheet. A copy of the cover sheets will be sent to the Developer at the time of return to the General Contractor.

1.2 SHOP DRAWINGS

A. For individual Specification Sections, submit complete shop drawings showing requirements for assembly, installation, start-up, adjusting and finishing also required coordination. Indicate special procedures, perimeter conditions requiring special attention and any special environmental criteria required for application or installation. However, only pertinent information or work directly involving other individuals or companies will be addressed.

B. The word/term "Others" and /or "By Others" shall not be accepted on shop drawings.

C. Submittal of shop drawings shall be on a section by section basis. Combining of more than 1 section in one submittal shall not be accepted.

1.3 PRODUCT DATA

A. Preparation:
   1. Clearly mark each copy to identify pertinent products or models.
   2. Show performance characteristics and capacities.
   3. Show dimensions and clearances required.
   4. Show wiring or piping diagrams and controls.

B. Manufacturer's Standard Schematic Drawings and Diagrams:
   1. Modify drawings and diagrams to delete information that is not applicable to the work.
   2. Supplement standard information to provide information specifically applicable to the work.

1.4 SAMPLES

A. Provide samples of sufficient size and quantity to clearly illustrate:
   1. Functional characteristics of the product, with integrally related parts and attachment devices.
   2. Full range or color, texture and pattern.
   3. Identified with Project Name, Section and Submittal Numbers.

1.5 CONTRACTOR'S RESPONSIBILITY

A. Review Shop Drawings, Product Data and Samples prior to submission.

B. Determine and verify:
   1. Field measurements.
   2. Field construction criteria.
   3. Catalog numbers and similar data.
   4. Conformance with specifications.

C. Coordinate each submittal with requirements of the work and of the Contract Documents.

D. Notify the Architect in writing, at time of submission, of any deviations in the submittals from requirements of the Contract Documents.

E. Do not begin fabrication of work that requires submittals until return of submittals with Architect's acceptance. The Contractor shall take full responsibility for any work performed before the shop drawings are reviewed.

1.6 SUBMISSION REQUIREMENTS

A. Make submittals promptly in accordance with approved schedule, and in such sequence as to cause no delay in the work.

B. Number of Submittals Required:
   1. Shop Drawings: Submit one (1) opaque copy (original or reproduction) for the General Contractor, one (1) for the Developer, and two (2) copies for the Architect, to the Architect for review. The Architect will return one (1) copy to the Contractor for his use, send one (1) copy to the Developer, and retain two copies for record. Copy consultants at same time as Architect; so as to lessen review time.
   2. Product Data: Submit and same number of product data, as required for shop drawings above. Submit additional copies as requested by the Architect.
   3. Samples: Submit five (5) samples as required by each specification section. Provide the samples with labels containing the location of where the sample is to be installed, the Job name, and date. One (1) sample will be given to the Developer, the Architect shall retain three (3) samples and one (1) sample shall be returned to the Contractor with the signature of the Architect or his representative/consultant.
   4. Color Charts: Submit five (5) color charts as required by each specification section. Provide the color charts with labels containing the location of where the color is to be installed, the Job name, and date. One (1) sample will be given to the Developer, the Architect shall retain three (3) samples and one (1) sample shall be returned to the Contractor with the signature of the Architect or his representative/consultant.

C. Submittals shall contain:
   1. The date of submission and the date of any previous submissions.
   2. The Project title.
   3. Contract Identification:
      a. Architect's Project Number.
      b. Specification Section Number.
   4. The Names Of:
      a. Contractor
      b. Supplier
      c. Manufacturer
   5. Identification of the product, with the specification section number.
   6. Field dimensions, clearly identified as such.
   7. Applicable standards, such as ASTM or Federal specification numbers.
   8. Identification of deviations from Contract Documents.
   9. Identification of revisions on resubmittals.
   10.An eight-inch by three-inch (8"x 3") blank space for Contractor and Architect stamps.
   11.All pages/sheets of each submittal shall be numbered consecutively, with specification section number and numerical number of page; i.e., 04200-01, etc.
   12.Contractor's stamp, initialed or signed, certifying the review of the submittal, verification of products, field measurements and field construction criteria, and coordination of information within the submittal with requirements of the work and of the Contract Documents. Any drawings submitted without this stamp will not be considered by the Architect and will be returned to the Contractor for resubmission.
   13.If the shop drawings show departures from the Contract requirements, the Contractor shall follow Specifications Section 01630 - Substitutions and Product Options.
   14.Review of the drawings shall constitute acceptance of the subject matter thereof only and not of any structure, material, equipment or apparatus shown or indicated.
   15.Review of the drawings shall be general and shall not relieve the Contractor of responsibility for the accuracy of such drawings, nor for the quantities of materials and equipment, nor for the proper fitting and

construction of the work, nor for the furnishing of materials, tools, equipment, etc., required by this Contract and not indicated on the drawings.

1.7 RESUBMISSION REQUIREMENTS

A. Make any corrections or changes in the submittals required by the Architect and resubmit until accepted.

B. Shop Drawings and Product Data:
   1. Revise initial drawings or data, and resubmit as specified for the initial submittal.
   2. Indicate any changes that have been made other than those requested by the Architect.

C. Samples: Submit new samples as required for initial submittal.

1.8 DISTRIBUTION

A. Distribute reproductions of Shop Drawings and copies of Product Data that carry the Architect's stamp of REVIEWED or FURNISH AS CORRECTED. The contractor must agree to the remarks under the FURNISH AS CORRECTED status, or consider the submittal rejected and resubmit.
B. Distribute samples that carry the Architect's stamp of REVIEWED or FURNISH AS CORRECTED as directed by the Architect.

SECTION 014000 - QUALITY CONTROL

1. Perform work in the most workmanlike manner and according to best standard practices. All work shall be free from faults and defects in workmanship.

2. Contractor shall be solely responsible for quality control of the work and shall maintain quality control over suppliers, manufacturers, products, services, site conditions and workmanship, to produce work of specified quality.

3. Testing and inspection, where required by the specification sections, shall comply with the specific requirements of the applicable specification section and the general requirements contained herein.

4. All testing and inspection whether required by the specification section or by laws. ordinances, rules, regulations, codes or orders of any public authority having jurisdiction or whether performed by Contractor for quality control shall be at contractor's expense unless otherwise indicted in the Contract Documents.

5. Where the specifications sections require testing or inspections by a testing laboratory, engage a reputable, independent testing laboratory specializing in the required services unless the testing or inspection is indicated as furnished by Owner.

6. Secure required certificates of testing, inspection or approval and promptly deliver to Owner.

7. Promptly replace or correct all work found not to be in compliance with the requirements of the Contract Documents and the requirements of any public authority having jurisdiction so as not to delay the work or the work of other contractors regardless of how such failure to comply may be revealed. Replacement and correction shall be expedited as required to maintain interim contract completion dates and the full completion date.

SECTION 01500 - CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

1. All temporary facilities and services shall be furnished in strict accordance with existing governing regulations.

2. Sanitary Facilities: The Contractor shall be provided temporary sanitary facilities for the workmen.

3. Water Facilities: The Contractor shall furnish and pay for temporary water for the purpose of construction as required.

4. Temporary Heat: The Contractor shall furnish, install and maintain temporary heat as work requires. This temporary heat shall provide a temperature differential of approximately 40 degrees F using portable space heaters.

5. Power and Light:

   a. The Contractor shall arrange for temporary power for tools and lights as required, to the construction site.

   b. Cost of the electrical power consumed for the temporary service for tools and lights, shall be borne by the Contractor. Cost of distributing power to the construction site shall be borne by the Contractor.

   c. The Contractor shall remove temporary power only when permanent service is arranged and approved.

6. Remove all temporary facilities upon completion of the work or when no longer required.

7. Provide plumbing, temporary drainage, water diversion, weather protection and controls as required to ensure no delay in the work or the work of other contractors.

8. Field Office shall be provided by Contractor with (1) telephone and (1) Fax.

SECTION 01600 - MATERIALS AND EQUIPMENT

1. Where acceptable manufacturers are listed in the specification sections, obtain materials and equipment in compliance with the requirements specified from one of the manufacturers listed.

2. Components required to be supplied in quantity within a specification section shall be the same, supplied by same manufacturer and shall be interchangeable.

3. All materials and equipment shall be new, unless otherwise specified, and of first class quality, free from faults or defects including blemishes, dents, imperfections, rust, and stains. Do not incorporate faulty or defective materials or equipment into the work.

4. Handle and store materials and equipment in accordance with manufacturers' and suppliers' recommendations and store packaged materials and equipment in original, undamaged condition with manufacturer's label and seals intact.

5. No substitutions for the materials and equipment specified shall be made unless written approval has be given as required in the General Conditions by Architect. Substitutions will be considered only if Owner receives the advantage of lesser cost with no decrease in quality, or earlier completion date or both.

SECTION 01630
SUBSTITUTIONS AND PRODUCT OPTIONS

1.0 GENERAL

A. This REQUEST FOR SUBSTITUTION form shall be used only under the following conditions:
   1. When the plans or specifications use the words "approved equivalenrather than the material or product specified.
   2. When the material specified, for some reason, has been discontinued.
   3. When the manufacturer of material specified has gone out of business.
   4. When an act of God, fire, etc. has destroyed the manufacturer's capability of producing item specified.
   5. When the Architect, at his discretion in the Owners best interest, shall have reason to allow a substitution.

B. Substituted product review by the Architect will be considered only in extreme circumstances, per the General Conditions of the Contract for Construction

2.0 SUBSTITUTION REQUEST

A. If the General Contractor desires to use material or products of manufacturer's names different from those specified in the Contract Documents, the Contractor desiring the substitution shall make written application as described herein. The burden of proving the equivalency of the proposed substitution rests on the Contractor desiring the substitution. To be acceptable, the proposed substitution shall meet or exceed all expressed requirements of the Contract Documents and shall be submitted upon a copy of the attached two page form.

GENERAL CONTRACTOR'S REQUEST FOR SUBSTITUTION

SUBMIT 4 COPIES (MIN.) PLUS NUMBER REQUIRED BY THE GENERAL CONTRACTOR.

DATE:_____

TO: _____

PROJECT NAME: _____
PROJECT NO._____
General Contractor:

Address of Contractor:

HEREBY REQUESTS APPROVAL OF THE FOLLOWING PRODUCT OR SYSTEM AS AN "APPROVED EQUAL" SUBSTITUTION:

Name and description of SPECIFIED product or system:

Specification
Section No._____
Page(s)_____
Paragraph(s)_____
Detail or
Drawing No.(s)_____ Section
No.(s)_____

USE SEPARATE FORM FOR EACH SUBMITTAL.

Name and description of submittal for substitution:

Name of Manufacturer

Address
Telephone

Name of Vendor

Address
Telephone
Reason for not giving priority to specified items:

Substitution affects other materials or systems:

_____Yes _____No If yes, attach complete data.

Substitution requires dimensional revision or redesign of structure or M & E work:

_____Yes _____No If yes, attach complete data.

Savings or credit to Owner for accepting substitute:

$_____

The attached data is furnished herewith for evaluation of the substitution:

_____Catalog _____Drawings _____Samples
_____Tests _____Reports

_____Other

THE UNDERSIGNED HEREBY CERTIFIES THAT THIS SUBMISSION HAS BEEN FULLY CHECKED AND COORDINATED WITH THE CONTRACT DOCUMENTS.

Firm Name

Address
By:_____
(Signature & print name)

B. Requests for substitution shall be accompanied by such technical data as the party making the request desires to submit. The Architect will consider reports from reputable independent testing laboratories, verified experience records from previous users and other written information valid in the circumstances.

C. Requests for substitution shall completely and clearly indicate in what respects the materials or products differ from those indicated in the Contract Documents.

D. Requests for substitution shall be accompanied by the manufacturer's printed recommendations clearly describing the installation, use and care, as applicable, of the proposed substitutions.

E. Requests for substitution shall be accompanied by a complete schedule of changes in the Contract Documents, if any, which must be made to permit the use of the proposed substitution.

2.1 ACCEPTANCE / REJECTION

A. Unless substitutions are received and accepted by the Architect, the Contractor shall be responsible for furnishing materials and products in strict accordance with the Contract Documents.

2.2 POST CONTRACT REQUEST

A. In the event that specified items cannot be delivered to the job site and incorporated into the work at such times and in such quantities as to cause no delay, then the Contractor may request a substitution in the manner described above. Should the accepted substitution provide a cost savings, the contract price will be adjusted by Change Order with the Owner receiving the benefit of the net savings. No increase in the Contract Price will be allowed on substitutions made after the contract date.

DIVISION 3 - CONCRETE

SECTION 03300 - CAST-IN-PLACE CONCRETE

1. Cast-in-place concrete work including all labor, tools, materials, equipment and services necessary to properly place and complete all interior and exterior cast-in-place concrete, formwork, reinforcement, joints and embedded items, finishing, curing and concrete testing.

2. Unless otherwise shown or specified, the work shall conform to the following standards of the American Concrete Institute.
   ACI 214, Recommended Practice for Evaluation of Strength Tests Results of Concrete.
   ACI 306R Cold Weather Concreting
   ACI 315 Manual of Standard Practice for Detailing Reinforced Concrete Structure.
   ACI 318, Building Code Requirements for Reinforced Concrete
   ACI 347, Recommended Practice for Concrete Formwork
   ACI 305R, Hot Weather Concreting
   ACI 211.1, Standard Practice for Selecting Proportions for Normal, Heavyweight and Mass Concrete
   ACI 304R Guide for Measuring, Mixing, Transporting and Placing Concrete

3. Materials:
   a. a. Portland Cement: ASTM C150, Type 1
   b. Aggregates: ASTM C33
   c. Water: Clean, fresh and potable
   d. Air Content: 5% to 8%
   e. Air entrainment admixture: ASTM C260. No other admixtures, including calcium chloride and fly ash are permitted.
   f. Re-Steel:
      1) Bars: ASTM A615, Grade 60
      2) Fabric: ASTM A185
   g. Curing compound: ASTM C309, Type 1, Class A, Sonneborn "Kure-N-Seal' or equal; two coats for exposed concrete floors.
   h. Control joints filler: ASTM D1751, J & P "Tex-Lite Fiber" or equal. 1/2" thick.
   i. Forms: Steel, wood or other suitable material of size and strength to resist movement during concrete placement and to retain horizontal and vertical alignment until removal. Use straight forms, free of distortion and defects. Use flexible spring steel forms or laminated boards to form radius bends as required. Coat forms with a non-staining form release agent that will not discolor or deface the surface of the concrete.
   j. Vapor Barrier: Polyethylene sheet, ASTM D2103, spec for polyethylene film ASTM E1154 & ASTM C156 for vapor barrier under concrete, 6 mil. thick.
   k. Grout: "Masterflow 928' by Master Builders or equal.

4. Concrete Mix:
   a. Ready mixed per ASIM C94.
   b. Strength - per construction plans or minimum as follows:
      1) Building = 3,000 psi @ 28 days
      2) Exterior (exposed) = 4,000 psi @ 28 days
   c. Slump:
      1) 4-inch maximum for general use.
      2) 3-inch maximum for flat work.
   d. Air entrainment: 5% by volume, +/- 1%.
   e. Provide mix design to Owner for review.

5. Verify lines, levels and measurement before proceeding with formwork.

6. Coordinate work of other sections in forming and setting openings, slots, recesses, chases, sleeves, bolts, anchors and other inserts.
   a. Exposed corners shall be chamfered 3/4" unless shown otherwise.
7. Place, support and secure reinforcement against displacement per ACI 315.
8. Install vapor barrier under interior floor slabs on fill. Lap joints minimum 6-inches and seal. Do not disturb vapor barrier while placing reinforcement.
   a. Coordinate the installation of joint materials and moisture barriers with placement of forms and reinforcing steel.
9. Deposit concrete continuously or in layers of such thickness that no concrete will be placed on concrete which has hardened sufficiently to cause the formation of seams or planes of weakness. If a section cannot be placed continuously, provide construction joints. Deposit concrete as nearly as practicable to its final location to avoid segregation.

10. Consolidate placed concrete by mechanical vibrating equipment supplemented by hand-spacing, rodding or tamping. Use equipment and procedures for consolidation of concrete in accordance with ACI recommended practices.

11. Placing Concrete Slabs: Deposit and consolidate concrete slabs in a continuous operation
    within limits of construction joints, until the placing of a panel or section is completed.
    a. Bring slab surfaces to correct level with straightedge and strikeoff. Use bull floats or darbies to smooth surface, free of humps and hollows. Do not disturb slab surfaces prior to beginning finishing operations.
    b. Maintain reinforcing in proper position during concrete placement.
    c. Forms may be removed after curing at not less than 50 degrees F. for 24 hours provided concrete is hard enough to not be damaged by form removal operations, and continued curing and protection is maintained.

12. Finishing interior slabs: Float finish per ACI 301. Power trowel to produce a smooth surface, relatively free of defects. After the surface has hardened to a point that it may be walked on without leaving imprints, power trowel the floor slab to produce a dense, smooth surface and to burnish a uniform high sheen on the surface.
    a. Where ceramic or quarry tile occurs, provide a fine, light broom finish to aid in bonding of tile to slab.

CERTIFICATION:

CT

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REVISION DATES

NO.	DATE	TYPE

ISSUE DATES

TYPE	DATE
PERMIT/CONSTRUCTION SET	08/14/26

DRAWN BY
CHECKED BY

PROJECT NUMBER
26-91020

DATE
08/14/2026

SHEET TITLE
OUTLINE SPECIFICATIONS

SHEET NUMBER
OS-1

13. Finishing exterior slabs: Finish slabs to true planes and provide light broom finish as acceptable to Owner. All exterior exposed concrete shall receive an anti-spall treatment of 50% (by volume) boiled linseed oil and 50% (by volume) mineral spirits, per AASHTO M233. First application: 40 sq. yds. per gallon and allow to completely dry. Second application: 60 sq. yds. per gallon and allow to completely dry.

    a. Vertical surfaces shall be rubbed with medium coarse carborundum stone and water to provide a smooth texture of uniform color, form mark free.
    b. All concrete surfaces stripped and rubbed same day.

14. Tolerance: Finished slabs shall be level with tolerance of 1/8" in ten feet, when tested with ten foot straight edge placed on the surface at not less than two difference angles. Uniformly slope surfaces to area drains.

15. The Contractor shall engage and pay for a testing laboratory for strength and slump test.

    a. Test specimens for compressive strength in accordance with ASTM C31 and C39.
    b. Make at least one strength test for each 100 cubic yards, or fraction thereof, of each mix design of concrete placed in any 1 day.
    c. Prepare five (5) test cylinders from each of the above samples in accordance with ASTM C31 for laboratory cured specimens. Test two (2) cylinders at age 7 days for preliminary indication of design strength. Test two (2) cylinders at age 28 days for the basis of quality control as specified by ACI 318. Retain one (1) cylinder for 45 day testing if required.
    d. Determine slump of the concrete sample for each strength test in accordance with ASTM C143.
    e. Determine percent of air content in accordance to ASTM C231 or ASTM C173.

16. Average of any three consecutive 28 day strength tests shall be equal to or greater than specified strength, and not more than 10% of tests shall have values less than specified strength. In no case shall a test have a value less than 90% of specified strength.

DIVISION 4 - MASONRY

SECTION 04200 - CONCRETE UNIT MASONRY

1. Concrete Masonry Units:
    a. Concrete masonry units shall be from one manufacturer, of uniform texture and color for each type required refer to Building Elevations.
    b. Concrete masonry units: Nominal face dimensions of 8 inch x 16 inches long, unless otherwise indicated; complete with corners, bases, bond beams, lintel and fillers to match concrete masonry units; 1-1/4" minimum face shall be cured in a moisture-controlled atmosphere or in an autoclave at normal pressure and temperature to comply with ASTM C90, Grade N, Type 1.
    c. When concrete unit masonry units are removed from the manufacturer's storage area, each cube or block shall be covered on top and all sides with a waterproof protective material. Protective covering shall be applied prior to the blocks being exposed to the weather.
2. Refer to building elevations for brick specification:
    a. Veneer anchors to be Hohmann & Barnard brand Hot dipped galvanized #DW-10 w/ vee wall ties wall anchors, spaced at a max. of 2'-0" o.c. horizontally, and 16" o.c. vertically. Do not exceed the max. area of wall supported by a single tie does not exceed 2.67 SF. Space ties at jambs and near edges at no more than 8 inches from edges. Anchor screws to be zinc plated, polymer coated #10 screws w/ neoprene sealing washers. Install two screws through steel studs per each DW-10 strap anchor.
3. Mortar: ASTM C476, Type S; 1800 psi at 28 days.
    a. Portland Cement: ASTM C150, Type 1.
    b. Aggregates: ASTM C144, standard masonry type; clean, dry and protected against dampness, freezing and foreign matter
    c. Hydrated Lime: ASTM C207, Type S.
    d. Water: Clean and free form injurious amounts of oil, alkali, organic matter or other deleterious material.
    e. Use no admixtures unless written approval is obtained from Owner.
4. Grout: Masonry mortar; consistency which will completely fill all spaces intended to receive grout.
5. Reinforcing Bars: 60 ksi yield grade; deformed billet steel bars, ASTM A615.
6. Horizontal reinforcement: Truss type ASTM A92 hot dip galvanized steel wire after fabrication ASTM A153 Class B2 with not less than #9 side rods with #9 cross rods.
    a. Dur-O-Wal, AA Wire Products, Heckman, or equal.
7. Maintain materials and surrounding air temperature to minimum 50 degree F prior to, during and 48 hours after completion of masonry work or until complete hydration of the mortar is achieved whichever is greater.
8. During freezing or near freezing weather, provide adequate equipment or cover to maintain a minimum temperature of 50 degree F. and to protect masonry work completed or in progress.
9. Establish lines, levels and coursing. Protect from disturbances.
10. Thoroughly mix mortar ingredients, in quantities needed for immediate use.
    a. If necessary, re-temper mortar to replace water lost by evaporation, but do not retemper or use mortar after two (2) hours from the initial mixing time.
11. Place masonry true, level and plumb in accordance with required lines and levels. Do not wet concrete masonry units. Align all vertical cells to maintain a clear, unobstructed system for grouting.
12. Full bond external and internal corners and intersections.
    a. Buttering corners of joints and deep or excessive furrowing of mortar joints will not be permitted.
13. Do not shift or tap masonry after mortar has taken initial set. Where adjustment must be made, remove mortar and replace.
14. Lay out masonry so not less than one-third (1/3) of the face of a unit is exposed on the face of the wall at openings, corner or offsets.
15. Perform jobsite cutting of masonry with proper power tools to provide straight and true, unchipped edges. Masonry shall not be cut with wet saw blade.
16. Ensure masonry courses are of uniform height. Make vertical and horizontal joints equal and of uniform thickness. Lay in full bed of mortar properly jointed with other work.
17. Remove excess mortar and projections. Take care to prevent breaking masonry corners.
18. Lay all masonry units in running bond course 1 block unit and 1 mortar joint to equal 8 inches. Form:concave mortar joints, where exposed; strike flush where concealed.
19. Provide temporary bracing during masonry erection. Maintain in place until building structure provides permanent bracing.
20. Place masonry reinforcing and anchorages for concrete unit masonry as follows:
    a. Provide single wythe walls with horizontal masonry reinforcing in every second mortar joint.
    b. Place horizontal masonry reinforcing in first and second joint above and below openings. Place continuous in first and second joint below top of walls.
    c. Fully reinforce corners and intersections, using prefabricated corner and "T" reinforcement sections.
    d. Lap masonry reinforcing splices minimum 6 inches.
    e. Place vertical reinforcing at indicated centers. Grout cores solid in 4'-0" maximum lifts.
21. As work progresses, build-in anchor bolts, and other items embedded in masonry.
22. Remove excess mortar and smears upon completion of masonry work.
    a. Clean soiled surfaces of all masonry work exposed to view using sand and water, fiber brushes and soap as required. Remove all dirt, mortar, stains and other defacements.
23. Clean and remove all mortar droppings from floor.
24. Cover tops of walls when work is not in progress.

DIVISION 5 - METALS

SECTION 05120 - STRUCTURAL STEEL

1. Codes and Standards: AISC "Code of Standard Practice for Steel Buildings and Bridges"; AISC "Specifications for the Design, Fabrication, and Erection of Structural Steel for Buildings' including "Commentary"; AWS "Structural Welding Code"; comply with applicable provisions except as otherwise indicated.
2. Shop Drawings: Show complete details and schedules (if required) for fabrication, assembly and erection. Furnish anchor bolts required for installation in other work; furnish templates for bolt installation.
3. Steel Plates, Bars: ASTM A36.
4. Wide flange shapes A992
5. Cold-Formed Steel Tubing: ASTM A500, Grade B.
6. Steel Pipe: ASTM A53, Type E or S, Grade B, Schedule 40 unless otherwise noted.
7. Fasteners: High-strength bolts and nuts, ASTM A325 or A490; unfinished bolts and nuts, ASTM A307, Grade A; rivets, ASTM A502, Grade 1.
8. Shop Paint: FS TT-P-86, Type II; or SSPC-Paint 14.
9. Fabrication: Comply with ASTM "Specifications" and final shop drawings. Mark and match-mark units for field assembly.
10. Connections: As shown on final shop drawings. Use high-strength bolts for field, connections, except as otherwise indicated.
    a. Comply with AWS Code for procedures, appearance and quality of welds.
11. Provisions for Other Work: Fabricate structural steel members to provide holes for securing other work and for passage of other work through steel framing as indicated.
12. Shop Painting: Paint structural steel work, except members or portions of members embedded in concrete or mortar, and contact areas to be welded or riveted. Clean steel free of loose mill scale, rust, oil and grease. Apply prime paint to provide a minimum dry film thickness of 2.0 mils.
13. Erection: Comply with AISC Code and Specifications, and maintain work in safe and stable condition during erection. Provide temporary bracing and shoring as required; remove when final connections placed.
    a. Set base plates on cleaned bearing surfaces, using wedges or other adjustments as required. Solidly pack open spaces with commercial non-shrink grout.
    b. Splice members only where shown on final shop drawings.
    c. Touch-up prime paint after erection. Clean field welds, bolted connections and abraded areas, and apply same type paint as used in shop.

MISCELLANEOUS METALS

A. Provide the following items where shown on the Drawings or required by A.I.S.C. Specifications
    1. Steel angle and channel lintels for masonry openings.
    2. Miscellaneous angles, channel jambs, plates, lintels, etc.)
    3. Miscellaneous anchor bolts, fasteners, hangers, angles, clips, etc. required for a complete installation.
B. Handrails, railings and brackets (where shown on the drawings):
    1. 1 3/8" O.D. steel pipe, mill galvanized, Schedule 40. Fittings shall be flush type, malleable or cast iron. Brackets shall be flush type, malleable or cast iron.
    2. Construction: Form direction changes in rail using solid bar stock or elbows. Connections shall be shop welded, except where field connections and expansion joints are required.
    3. Provide minimum 6" long galvanized steel sleeves for anchoring railings into new concrete stairs, walls or curbs. Railings are not to be bolted to insulated wall panels.

SECTION 05400 - METAL FRAMING

1. Work includes light gauge metal framing units of size and gauge indicated. including manufacturer's standard tracks, blocking, clips, fasteners and accessories.
2. Delivery and storage: Protect metal framing units from rusting and damage. Store above ground in dry, ventilated space, or protect with waterproof coverings.
3. Exterior studs to be galvanized finish complying with ASTM A-525 for minimum G60 coating.
4. Unless noted on plans, all interior metal studs to be 20 ga. and all exterior metal studs to be 18 ga. unless otherwise noted.

DIVISION 6 - WOOD & PLASTICS

SECTION 06100 - CARPENTRY

1. Framing Lumber: American Softwood Lumber Standards PS20,S4S, 19% maximum moisture content, with the following minimum working stresses:
    a. Members in contact with concrete, masonry or roofing shall be preservative treated, AWPB LP-2
    b. Fire retardant treated lumber: AWPA C20. (As required -see code analysis on Cover Sheet.)
2. Plywood: PS1, factory marked with appropriate APA trademark - 4-Ply. Wafer board is not acceptable. Protect all plywood from moisture by use of all required waterproof covering until the plywood has in turn been covered with the next succeeding component or finish. Fire Resistance Treated where required by code.
3. Nails, Spikes and Staples: Galvanized for exterior locations and treated wood; plain finish for other interior locations; size and type to suit application.
4. Bolt, Nuts, Washers, Lags, Pins and Screws: Medium carbon steel; sized to suit application; galvanized for exterior locations and treated wood; plain finish for other interior locations.
5. Fasteners: Toggle bolt type for anchorage to hollow masonry. Expansion shield and lag bolt type for anchorage to solid masonry or concrete. Bolts or power activated type for anchorage to steel.
6. Erect wood framing, furring, stripping, plywood backing and nailing members true to lines and levels. Do not deviate from true alignment more than 1/4 inch.
7. Comply with NFPA National Design Specification for Wood Construction recommendations for sizes and spacings of members, nailing schedule, and for framing openings if sizes, spacings or opening framing are not indicated.
8. Provide blocking for support of wall mounted cabinetwork, hardware, toilet partitions, urinal screens, toilet accessories, and plumbing fixtures unless other means of support is indicated.
9. Do not splice structural members between supports.

Section 6B FINISH CARPENTRY

A. Finish carpentry shall include but is not limited to, installation of door frames and finish hardware, finish trim, plastic laminate cabinets, countertops, vanities, shutters, French door partitions, wall display units, mobile display units, rug bars and all other millwork.

B. INTERIOR TRIM

1. Interior moldings, base, and trim at interior doors, shutters, wall mouldings, windows, display walls, and the like is to be paint grade finger jointed white pine or poplar.

2. All interior trim shall have nails properly set and puttied. Trim shall be sanded smooth on all exposed surfaces and left ready for a painter's finish.

3. Refer to the drawings for the type and extent of interior trim.

C. PLASTIC LAMINATE , BASE & WALL CABINETS

1. Provide plastic laminate base cabinets, wall cabinets and counter tops consisting of plywood, MDF, or pressboard construction with plastic laminate finish. Laminate shall be Wilson Art, or Formica or approved equal with color as noted on the finish schedule.

2. Wall and base cabinets shall have balanced construction throughout and flush overlay doors. Hardware shall consist of self closing, concealed, "European style" hinges. Pulls shall be brushed chrome, 3" wire pulls, unless noted otherwise on the drawings.

3. Provide plastic laminate cabinetry in the following areas:

a. Plastic laminate cabinets consisting of base cabinet, counter top and minimum 4" back and side splash at the following areas.

A. Break Room
B. Sweet Shop serving and prep area
(Refer to details on the drawings.)

b. Provide plastic laminate wall cabinets, 40" high at Break Room, to extent indicated on the Drawings.

c. Provide plastic laminate counter tops and cabinets at sales offices, BYOB, cash room, managers office and vanities at toilet rooms.

D. DISPLAY UNITS

1. Provide wall mounted and mobile display units in sizes and quantities as detailed on the drawings.

a. Units shall be constructed of MDO plywood, MDF or Furniture grade birch veneer plywood.

b. All units shall have interior corner clocks, web frames or other solid wood reinforcing to maintain shape and prevent racking.

c. Mobile units shall be equipped with minimum 3" swivel casters, four per unit, 2 of which shall be locking type.

d. Wall hung units shall be attached to walls by means of solid wood French Cleats. Wall mounted portion of cleat shall be securely fastened to studs or blocking by means of lay screws or toggle bolts.

e. Wall mounted units which are to receive electrical outlets shall have cutting for outlet boxes done by installer in the field.

f. All display units shall be constructed with mitered corners and shall be sanded smooth and primed at the millwork.

SECTION 06255 - FIBERGLASS REINFORCED PANEL

1. FRP panels: 48" wide, 3/32" thickness, white unless noted otherwise on Finish Schedule.
    a. Kemlite
    b. Marlite
2. FRP Accessories:
    a. All mouldings, trim, adhesive and other accessories shall be as manufactured and recommended by the same manufacturer as panels.
3. Sealant
    a. One part Silicons Rubber, ASTM C920 and FS TT-S-001543A, FDA approved, or as recommended by FRP manufacturer.
    b. Color: Clear to translucent
4. Install panels over water resistant drywall in strict accordance with manufacturer's recommendations, using non-flammable adhesive (100% coverage).
    a. Drywall (all joints taped) or plywood sheathing must be installed floor to ceiling to provide a good bondable surface to accept installation of FRP panels.
5. Discard units of material which are unsound, warped, bowed, twisted, improperly treated, or too small to fabricate work with minimum of joints or optimum jointing arrangements, or which are of defective manufacture with respect to surfaces, sizes or patterns.
6. Scribe and cut work to fit adjoining work.
    a. Caulk all joints and all mouldings with silicons sealant.
    b Panels to be applied to the walls with the 48" dimension horizontal,and in lengths to extend from base to ceiling with no intermediate horizontal joints.
    c. Install the work plumb, level, true and straight with no distortions. Shim as required using concealed shims, install to a tolerance of 1/8" in 8'-0" for plumb and level, and with 1/16" maximum offset in flush adjoining surfaces.

SECTION 07920 - SEALANTS AND CAULKING

1. Sealant Type 1: One component, acrylic latex, for interior non-moving joints.
    a. Sonneborn "Sonolac" or equal.
2. Sealant Type 2: One component, urethane, gun-grade, non-sag, for interior or exterior concealed moving joints, thresholds and architectural sheet metal.
    a. Sonneborn "NP1" or equal.
3. Sealant Type 3: Multi-component, urethane, gun-grade, non-sag, for interior or exterior exposed moving joints (other than pavements), door and window frames, and other weathertight locations.
    a. Sonneborn "NP2" or equal.
4. Sealant Type 4: One component, urethane, gun-grade or pourable, self-leveling for interior or exterior horizontal joints.
    a. Sonneborn "Sonolastic SL1" or equal.
5. Primer: Non-staining type. recommended by sealant manufacturer to suit application. Unpainted, porous surfaces shall be primed.
6. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint filling materials.
7. Joint Filler: ASTM D1056, round, closed cell polyethylene foam rod; oversized 30 to 50 percent. Polystyrene is unacceptable.
8. Bond Breaker Tape: Pressure sensitive polyethylene tape recommended by sealant manufacturer to suit application.
9. Clean, prepare and size joints in accordance with manufacturer's instructions. Remove any loose materials and other foreign matter which might impair adhesion of sealant. Metal surfaces shall be free of corrosion.
10. Install joint filler rod to proper depth by rolling material into joint without lengthwise stretching or twisting. Do not puncture or prime filler rod.
11. Sealant application shall be performed in strict accordance with manufacturer's written specifications by tradesmen skilled in the work. Use masking tape to protect adjacent surfaces as necessary.
12. All sealing shall be done with neat, smooth tooled beads, free of air pockets, foreign embedded matter, ridges and sags, in firm full contact with interfaces.
13. Work adjacent to joints shall be cleaned free of smears of sealant compound as work progresses.

DIVISION 8 DOORS, WINDOWS, AND GLASS

Section 8A METAL DOORS AND FRAMES

1. Hollow Metal Doors Provide flush door with minimum 18 ga. face sheets and honeycomb core. Doors shall be cut out and reinforced to receive finish hardware. Doors shall be by Ceco, or approved equal.
2. Frames - Hollow metal frames for all doors and fixed lites shall be shop primed, complete with cutouts and reinforcing to receive hardware, min. 16 ga. cold-rolled or hot-rolled and pickled steel, profile as required to suit wall thickness. Frames for doors in interior, unrated partitions may be KD type. Frames for borrowed lites shall have beveled glazing stops and/ or profile as detailed on the Drawings. Frames shall be by Ceco or approved equal.
3. Hollow metal doors and frames shall be constructed and installed in conformance with Underwriter's Laboratories and NAAMM Publications. Doors and frames to be given manufacturer standard shop prime coat. All hollow metal work shall be hot-dipped galvanized prior to shop prime coat where they are to abut unheated spaces.

Section 8B WOOD DOORS

A. INTERIOR

1. Flush Wood Doors - Provide 3'-0" x 7'-0" x 1-3/4" thick, hinged single units, unless noted otherwise. New interior wood doors shall be solid core, flush, white birch rotary cut veneer, pre-finished clear stain grade unless noted otherwise; as manufactured by Mohawk or approved equal.

a. Provide interior, solid core wood flush doors; pre-finished with clear polyurethane.

b. Doors shall have a particle board core with solid lock block inserts, (5" x 10"), stiles and rails.

c. Provide manufacturer's warranty for doors.

2. French Doors and Transoms- Provide 1 3/8" thick stile and rail primed pine units. Doors shall be 2'-6" and 3'-0" wide by 7'-0" high. Transoms shall be fabricated in the same widths and custom heights as detailed on the drawings

a. Provide 1/8" clear tempered glass in all doors and transoms.

Section 8C ALUMINUM ASSEMBLIES

A. Assemblies shall be fabricated from extrusions of 6063-T5 aluminum alloy with clear anodic finish. Thermally broken sections shall be assembled by screw spline method, and shall accommodate flush 1" insulated glazing.

B. Glazing units shall be 1" factory-sealed units. Exterior pane shall be minimum 3/16" tempered, polished plate glass Interior panes shall be minimum 3/16" clear tempered polished plate glass.

C. Provide all extrusions, anchors, hardware, glazing beads, etc. For a complete installation.

D. System shall be "TRIFAB 451T" by Kawneer, or equivalent.

Section 8D TRAFFIC DOORS

A. Provide double acting, high impact traffic doors composed of double ply reinforced polymer panels for full length of door.

B. Glazing in doors shall be ¼" clear acrylic panel mounted in a gasketed frame.

C. Doors shall be complete with factory installed zinc coated, double action hinges and shall be field installed in a non-rabbeted hollow metal frame.

D. Color shall be as selected by Owner from manufacturer's standard range.

E. Traffic doors shall be as manufactured by Eliason Corporation, or approved equal.

Section 8E FINISH HARDWARE

A. GENERAL

1. Finish hardware for all doors shall include all screws, shields, anchors, plugs, etc. necessary for a complete installation. Units shall include UL labels where specified or required. Installation shall conform with HMMA standards for hardware preparation and location for hollow metal frames. Provide complete set of hardware for each door as scheduled.

a. Accessible lever handled hardware throughout.

b. All closers, butts, kickplates, mop plates, silencers, and other miscellaneous items as required.

c. Aluminum thresholds, where required, shall not be more than 1/2" in height and shall be beveled to a slope not to exceed 45 degree to the horizontal.

2. Finish Hardware Components: Contractor shall install hardware in accordance with manufacturer's instructions and make adjustments to provide smooth operation. Provide all strikes, screws, etc. as required. All locksets & latch sets shall be bored type. Provide lever trim throughout, except knurled or textured knobs at doors to mechanical and utility spaces if noted on the drawings. Finish of various hardware items shall be US32D at exterior and US26D at interior, unless noted otherwise. Deliver two (2) sets of keys for all locksets to the Owner by hand or via registered mail. The following items are standard:

* Locksets & Latchsets: Corbin-Russwin, "CL" Series with "Newport" lever and rose, function as noted.
* Butt Hinges: Stanley or McKinney
* Exit Device: Corbin-Russwin or Adams-Rite
* Door Bumpers, Ives, convex, wall mounted
* Silencers: Ives
* Mopplates/Kickplates: Rockwood, Plas. Lam. x 2 LDW
* Closers: Corbin-Russwin, LCD
* Weather-stripping Thresholds: Reese, Pemko

B. HARDWARE MANUFACTURERS

1. Locksets and latchsets shall be as manufactured by Corbin-Russwin or approved equal. Hardware sets shall be similar to Series CL, with "Newport" style levers. This shall include all necessary roses, trim and dummy trim.

2. All exterior locksets shall be keyed alike. All interior locksets shall be keyed separately. Provide four (4) master keys for system and two (2) change keys per lockset.

3. Butt hinges shall be 4 1/2" X 4 1/2" five knuckle type except at rated doors and doors with closers where they shall be ball bearing hinges, same dimensions. Hinges shall be as manufactured by McKinney, Baldwin, Stanley or approved equal.

4. Closers shall be adjustable type as manufactured by Norton, LCN (Series 1200) or approved equal.

5. Finish for all above items shall be US 26D brushed chrome.

C. HARDWARE SETS

1. Refer to the Door Schedule Sheet on the Drawings for hardware sets.

Section 8F OVERHEAD DOORS- ONLY WHERE NEW OVERHEAD DOORS ARE INDICATED ON THE DRAWINGS.

Refer to drawing for specifications.

Section 8G SLIDING DOORS

Refer to drawing for specifications.

DIVISION 9 - FINISHES

SECTION 09260 - GYPSUM BOARD SYSTEMS

1. Gypsum Panels - Types Required:
    a. Regular board: ASTM C36, tapered edges,
    b. Fire rated board: ASTM C36, tapered edges,
    c. Water resistant board: ASTM C630, Grade R, tapered edges.
    d. Plaster board.
    e. Cement backer board for tile shall be "Durock", 5/8" (do not use Wonderboard).
2. Studs, Trim and Accessories
    a. Steel Studs: Per ASTM C645, galvanized, gages as noted. Track shall be one size heavier than studs.
    b. Corner Beads, Control Joints, and Edge Trim: Per ASTM C1047, equal to USG #103 "Dur-A-Bead", #093 and #200-A respectively, galvanized. Under otherwise detailed, exposed "J" trim is not acceptable.
    c. Suspended ceiling system shall be Armstrong Drywall Grid System. Refer to: armstrong.com/drywallgrid.
3. Fasteners: Screws, per ASTM 1002; 1-1/4" Type "W" bugle head into wood framing, 1-1/8" Type "S" bugle head into steel framing, and 3/8" Type "S-12" pan (or low profile) head for steel to steel framing connections.
4. Joint Treatment Materials
    a. Joint tape: Paper reinforcing tape, per ASTM C475.
    b. Joint Compound: Provide chemical hardening type for bedding and filling, and ready-mixed vinyl type for topping, per ASTM C475.
5. Textured Finish: See finish schedule.
6. Steel Framing and General Gypsum Board Installation Requirements:
    a. Steel Framing, Board Application and Finish Standards: GA216 and ASTM C754 and C840. Studding shall be 16" o.c. unless otherwise noted. Provide horizontal bracing at 4'-0" o.c. measured vertically. Frame door openings to comply with GA219.
    b. Install ceiling boards in the direction and manner which will minimize the number of end-butt joints, and which will avoid end joints in the central area of each ceiling. Stagger end joints at least 4'-0".
    c. Install wall/partition boards vertically to avoid end-butt joints wherever possible.
    d. Locate either edge or end joints over supports. Stagger joints over different studs on opposite sides of partitions.
    e. Space fasteners in gypsum boards in accordance with referenced standards and manufacturer's recommendations, except as otherwise indicated.
        1) Parallel Application: 12' o.c. in field; 8' o.c. along edges.
        2) Perpendicular Application: 12" o.c. in field; 12" o.c. along edges.
7. Installation of Drywall Trim Accessories
    a. Install metal corner beads at horizontal and vertical external corners of drywall work. Secure with screws; clinching is not acceptable.
    b. Install metal control joint (beaded-type) at 30'-0" maximum centers in any wall or ceiling.
8. Finishing of Drywall
    a. Apply treatment at gypsum board joints (both directions), flanges of trim accessories, penetrations, fastener heads, surface defects and elsewhere as required to prepare work for decoration. Apply joint compound in 3 coats. Sand between last 2 coats and after last coat.
    b. Water-resistant Gypsum Board Base for Ceramic Tile. Comply with recommendations of gypsum board manufacturer for treatment of joints.
9. Application of Texture Finish
    a. Prepare and prime drywall and other surfaces in strict accordance with texture finish manufacturer's instructions.
    b. Mix and apply finish to drywall and other surfaces indicated to receive finish in strict accordance with manufacturer's instructions to produce a uniform texture without starved spots or other evidence of thin application, and free of application patterns.
    c. Remove texture droppings from door frames, windows and other adjoining work.

Section 9B CERAMIC TILE

A. (Interior) Provide and install thin-set ceramic floor, thin-set base and wall tile; tile and grout colors as selected by the Owner and listed on the Finish Schedule.

1. Toilet Rooms, Sleep Zone, Sweet Shop, tile at Vestibule, canopy, sales area and corridor floors.

2. Toilet Room Walls: Ceramic tile full height and 54" wainscot and as listed on the Finish Schedule and shown on the drawings.

3. Provide tile thresholds at toilet rooms.

4. Provide metal trim strips (schluter strips) at outside corners, edges of wainscot and transitions from floor tile to other materials.

B. Ceramic tile work shall also include glass tile as scheduled on the finish schedule and legend.

1. Glass tile installed at face of Sweet Shop counter.

C. Grout for tile work shall be as scheduled on the finish legend.

Section 9C RESILIENT FLOORING

A. Provide 12" x 12" Reinforced vinyl tile flooring, 1/8" thick where indicated on Finish Schedule. Colors shall be as selected by the Owner from manufacturers-standard range.

1. Reinforced vinyl tile shall be "CORTINA" as manufactured by Azrock, or approved equal by Armstrong or GAF.

2. Provide all required mastic and trim pieces, including 6" high coved base, and install in accordance with manufacturer's instruction.

B. Provide 48" x 7" wood grain patterned vinyl plank flooring.

1. Vinyl planks shall be Van Gough series, Jatoba VGW42T, as manufactured by Karndean, or approved equal.

2. Prior to installation verify concrete slab has been properly sealed or otherwise prepared for vinyl plank, per manufacturer's published instructions.

3. Provide all necessary adhesives for installation and solvents for cleanup of completed installation.

Section 9D PAINTING & FINISHING

A. All interior walls, ceilings, trim and related work which does not have a manufacturers finish is to be otherwise painted or finished. Existing elements are to be repainted as noted on the finish schedule. Field paint all exposed surfaces and edges, as follows:

1. All gypsum wallboard and ceilings to be painted. One (1) coat latex primer, two (2) coats acrylic latex, eggshell finish.

2. All masonry walls: One (1) coat heavy-duty block filler, two (2) coats acrylic latex, semi-gloss.

3. All metal not factory painted: One (1) coat alkyd primer, two (2) coats water based catalyzed epoxy, semi-gloss.

4. All steel doors and frames: One (1) coat bonding primer, two (2) coats DTM latex, semi-gloss.

5. Painted concrete floors- One (1) coat primer/sealer, two (2) coats water-based catalyzed epoxy; semi-gloss with anti-slip grit.

B. Provide primer and finish coats to match existing for all existing areas disturbed by the work. Paint walls corner to corner. Provide 1 coat primer and 2 finish coats unless directed otherwise.

C. All paints shall be as manufactured by Benjamin Moore, no substitutions. Stains by Olympic, Cabot or approved equal. All colors as selected by Owner.

Section 9E ACOUSTIC PANEL CEILINGS

A. ACOUSTIC MINERAL FIBER PANELS

1. Where new suspended ceilings are shown on the drawings provide 24" x 24" x 5/8" and 24" x 48" x 5/8" square-edge, mineral fiber panels with non-perforated face, random pattern unless noted otherwise. Panels shall have factory white finish with reflectance value of LR-1.

2. Panels shall be Fine Fissured series, medium texture, manufactured by Armstrong World Industries, or approved equal.

B. SUSPENSION SYSTEM FOR MINERAL FIBER PANELS

1. Provide DX two-way exposed "T" grid system made by Donn Products or approved equal with all white flat, painted finish (low gloss).

C. ACCESSORIES

1. Provide 12 ga. galvanized wire hangers, soft annealed steel.

2. Provide ceiling clips to receive hangers, type as recommended by suspension system manufacturer, sized for pull-out resistance of not less than 5 times the hanger design load.

3. Suspension system shall conform to ASTM C625; intermediate duty.

4. Provide 27 ga. galvanized steel wall moldings where suspension system stops at walls with finish to match exposed runners.

Section 9F CARPETING

A. NYLON CARPETING

1. Provide commercial grade, Extra Heavy Traffic class, direct glue down carpeting of 100% nylon, tufted pile in areas scheduled.

2. Carpeting shall have a minimum pile weight of 26oz per yard and minimum height of 5/32". All carpeting shall be treated for static control of less than 3.5 KV and have anti-microbial treatment.

3. Carpeting shall meet or exceed the requirements of ASTM E 84 and all provisions of the IBC with respect to flame spread, fuel contribution and smoke developed.

4. Carpet shall be culture Series #50912-12760 "Atmosfera", as manufactured by Shaw Commercial or approved equal.

B. CARPET TILES

1. Provide 24" x 24" carpet tiles where scheduled on the Drawings.

2. Carpet tiles shall be "WALKOFF" as manufactured by Patcraft or approved equal.

DIVISION 10 SPECIALTIES

Section 10A TOILET SPECIALTIES

A. TOILET ACCESSORIES

1. Provide matte stainless steel toilet accessories, as indicated on the Drawings, including but not limited to:

* Mirrors , surface-mounted, Bobrick B-165-1836
* Toilet paper dispensers, surface-mounted, Bobrick B-7686
* Grab bars, concealed mounting screws, B-6806 Series, satin stainless
* Robe hooks (coat hooks), Bobrick #7671
* Sanitary napkin disposal, surface-mounted, Bobrick B-270
* Soap dispenser, Bobrick B-2111, surface.
* Paper towel dispenser, Bobrick B-3699, surface.
* Koala Baby Changing Station

2. Accessories shall be configured and installed in accordance with ANSI A-117, current edition.

3. Accessories shall be manufactured by A.S.I., Bobrick or Bradley. Style shall be as selected by the Owner.

Section 10B TOILET PARTITIONS

A. Partitions shall be ASI Global Grey 9200 in Pebble grained texture. High density solid polyethylene plastic (HDPE). Partitions shall be floor mounted type; overhead braced.

B. Materials and Construction:

1. Panels, Urinal Screens and Doors: Shall be 1" thick, in colors that extend from the surface through the entire core. Doors and panels shall be a minimum of 55" high and extend 14" off the floor. All edges are to be machined and all sharp corners to be removed. Bottom edges shall have an aluminum heat-sinc strip.

2. Pilasters: Shall be 1" thick, constructed the same as the panels, doors, and urinal screens. Bottom of pilasters shall have adjustable floor anchor, with leveling device, anchor studs and locking nits to firmly secure pilasters to the floor. This entire assembly to be concealed with a 4" high stainless steel plinth, secured in place with one-way thru bolts.

3. Headrail: Pilasters, when set in place, shall be securely braced with 1" x 1 ½" anodized anti-grip headrail bracing. Headrail to seat on top of pilaster and securely fastened with theft-resistant screws.

4. Hardware and Fittings: Panels and pilasters shall be attached to one another and/or to walls with Zamac chrome plated brackets. Doors shall be equipped with Knickerbocker Ever Life Spring Activated Non-Rising Hinges. Top hinge pivot door bracket to be recessed and inset into edge of door, approximately 2" below the top with a steel pivot pin, operating on a self-lubricating bushing, mounted within the door stricture, supported both above and below the pivot bracket. Operation of door shall be controlled by opposing cams under spring tension, mounted on a fixed vertical pintle. Hinges to be adjustable to permit door to rest at any angle, or to hold door open or closed when not latched. Hinges shall operate without raising or lowering the door on a fixed horizontal plane. Each door shall be equipped with stop and keeper, combination coat hook and bumper and concealed latch, featuring a latch cover which permits access to the compartment in case of emergency. Handicap door to be equipped with Knickerbocker Partition Corporation Lever Handle. Design to comply with ADA requirements. Hinge bracket and stops shall have clamp flanges to transmit the strain of door closing to the pilaster. All hardware shall be heavy one-piece, non-ferrous Zamac casting, heavily chrome plated. Hinges stop and keeper, pilaster and panel brackets shall be thru bolted with sex bolts having theft-resistant heads.

C. Provide out-swinging, over-sized doors with large handles and easy to operate hardware at accessible water closet compartments. Reinforce panels to receive grab bars, if required. Grab bar supports shall be designed to support a min. of 300 lbs at any point.

D. Floor anchors shall be of the type which are rigidly fasted to structural concrete floor slab. Anchors for each pilaster shall consist of galvanized steel threaded rods, lock washers, leveling nuts and drilled template. Install anchors prior to setting tile.

E. Urinal and entry screens shall match toilet partitions and shall be wall hung.

1. Attach with heavy duty concealed anchoring devices, including wall channels, wall plates and studs as recommended by manufacturer.

F. The contractor shall take and be responsible for all measurements at the job which may be required for fabrication or installation. Coordinate with other work which comes in contact with the work in this section.

Section 10C FIRE EXTINGUISHERS

A. Provide approved, wall-mounted fire extinguishers in quantity and locations as required by the fire marshal.

DIVISION 11 EQUIPMENT

NOT USED IN THIS OUTLINE- EQUIPMENT SUPPLIED BY THE OWNER AS NOTED ON THE DRAWINGS SHALL BE INSTALLED AS A PART OF THE WORK OF THIS CONTRACT.

DIVISION 12 FURNISHINGS

All furnishings shall be by the Owner under separate contract.

CERTIFICATION:

CT

CAMBURAS & THEODORE, LTD
ARCHITECTURE | ENGINEERING | INTERIORS
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BOBS Discount Furniture.

3401 W NEW HAVEN AVE.
MELBOURNE, FL 32904

REVISION DATES

NO.	DATE	TYPE

ISSUE DATES

TYPE	DATE
PERMIT/CONSTRUCTION SET	08/14/26

DRAWN BY

CHECKED BY

PROJECT NUMBER
26-91020

DATE
08/14/2026

SHEET TITLE
OUTLINE SPECIFICATIONS

SHEET NUMBER
OS-2

GENERAL

DESIGN CODE: 2023 FLORIDA BUILDING CODE

DESIGN LOADS:

ROOF:	
LIVE LOAD:	30 PSF
GROUND SNOW:	3 PSF
EXPOSURE CATEGORY:	C
IMPORTANCE FACTOR:	1.0
DRIFT:	PER ASCE 7
WIND LOAD:	
DESIGN WIND SPEED:	149 MPH (ULT) 115 MPH (ASD)
EXPOSURE CATEGORY:	C
MWFRS:	20 PSF
COMPONENTS/CORNERS:	25 / 30 PSF
AWNING/ROOF EQUIPMENT:	40 PSF
SFRS:	
SITE CLASSIFICATION:	D
RISK CATEGORY:	II
SEISMIC DESIGN CATEGORY:	A
S_{DS} = 0.066	
S_{D1} = 0.046	

1. PERFORM WORK IN ACCORDANCE WITH SPECIFICATIONS AND CONTRACT DRAWINGS. REPORT DISCREPANCIES BETWEEN SPECIFICATIONS AND CONTRACT DRAWINGS TO ARCHITECT FOR CLARIFICATION PRIOR TO IMPLEMENTING WORK.
2. SUBJECT TO STRUCTURAL ENGINEER'S ACCEPTANCE, UTILIZE DETAILS FOR SIMILAR CONDITIONS WHEN DETAILS FOR CONSTRUCTION ARE NOT INDICATED FOR A SPECIFIC CONDITION.
3. WHERE NOT INDICATED ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL, MEP, CIVIL AND/OR OTHER CONTRACT DRAWINGS FOR:
   A. ELEVATIONS AND SLOPES,
   B. SIZE, LOCATION AND EXTENT OF CURBS, FLOOR DEPRESSIONS, AND TOPPING SLABS,
   C. SIZE AND LOCATION OF DRAINS, TRENCHES, SLAB OPENINGS, AND WALL OPENINGS,
   D. SIZE, TYPE AND LOCATION OF NON-LOAD BEARING PARTITIONS,
   E. CONCRETE AND STEEL FINISHES,
   F. SIZE AND LOCATION OF SLEEVES AND HANGERS,
   G. ITEMS EMBEDDED IN THE STRUCTURE OR PENETRATING THE STRUCTURE,
   H. CONNECTION OF MEP OR ARCHITECTURAL ITEMS TO THE STRUCTURE AND CONNECTION OF ITEMS NOT TYPICALLY DETAILED ON STRUCTURAL DRAWINGS,
   I. WATERPROOFING AND DAMP PROOFING,
   J. SITE AND SUBGRADE DRAINAGE SYSTEMS AND DETAILS.

   COMPARE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, MEP, CIVIL AND OTHER CONTRACT DRAWINGS AND REPORT DISCREPANCIES TO ARCHITECT PRIOR TO IMPLEMENTING WORK.
4. OPENINGS AND PENETRATIONS THROUGH STRUCTURAL ELEMENTS AND ITEMS EMBEDDED IN STRUCTURAL ELEMENTS THAT ARE NOT INDICATED ON STRUCTURAL DRAWINGS SHALL BE REVIEWED BY STRUCTURAL ENGINEER PRIOR TO IMPLEMENTING WORK.
5. DO NOT SCALE DRAWINGS TO DETERMINE DIMENSIONAL INFORMATION.
6. DO NOT PLACE MATERIALS OR EQUIPMENT ON STEEL DECK IN EXCESS OF 20 PSF NOR ON FINISHED FLOORS OR ROOFS IN EXCESS OF THE INDICATED DESIGN LIVE LOADS. AVOID IMPACT LOADING.
7. STRUCTURE DESIGNED FOR THE FINAL IN-SERVICE CONDITIONS ONLY. TAKE NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
8. DESIGN CONNECTIONS OF MEP AND ARCHITECTURAL ITEMS TO THE STRUCTURE, AND SUBMIT TO STRUCTURAL ENGINEER FOR REVIEW AND ACCEPTANCE.
9. EXISTING CONDITIONS AND RELATED DIMENSIONS INDICATED IN CONTRACT DOCUMENTS ARE PROVIDED FOR INFORMATION ONLY AND SHALL BE FIELD VERIFIED PRIOR TO IMPLEMENTING WORK. SUBMIT CONDITIONS THAT DIFFER FROM THAT INDICATED IN CONTRACT DOCUMENTS TO ARCHITECT FOR REVIEW PRIOR TO IMPLEMENTING WORK.
10. PROPERLY REINSTATE EXISTING FINISHES, FIREPROOFING OR ITEMS THAT ARE REMOVED OR DAMAGED WHILE PERFORMING WORK.
11. COORDINATE VISIBLE DEVICES WITH ARCHITECT.
12. GENERALLY, THE DRAWINGS DO NOT INDICATE TEMPORARY REQUIREMENTS. NEED FOR TEMPORARY DEWATERING, TEMPORARY EARTH RETENTION, TEMPORARY WATER CUTOFF OR OTHER TEMPORARY MEASURES MIGHT BE INDICATED ON DRAWINGS AT SELECTED AREAS AS SUGGESTIONS. DRAWINGS DO NOT IDENTIFY ALL AREAS OR CONDITIONS REQUIRING TEMPORARY MEASURES. CONFIRM TEMPORARY MEASURES INDICATED ON DRAWINGS AND IDENTIFY OTHER AREAS OR CONDITIONS REQUIRING TEMPORARY MEASURES. DETERMINE AND DESIGN THE APPROPRIATE TEMPORARY SYSTEMS.
13. PIPING OR CONDUIT LINES PARALLEL TO JOISTS OR BEAMS SHALL NOT BE LOCATED NEARER TO JOISTS OR BEAMS CLOSER THAN ONE THIRD THE SPACING BETWEEN ADJACENT JOISTS OR BEAMS, USING TRAPEZE FRAMING TO SUPPORT THE PARALLEL PIPING OR CONDUIT LINES. PIPING OR CONDUIT LINES PERPENDICULAR TO JOISTS OR BEAMS SHALL BE SUPPORTED AT EACH JOIST AND BEAM.
15. ITEMS SUSPENDED FROM STEEL JOISTS OR JOIST GIRDERS SHALL COMPLY WITH EXPLICIT DESIGN CRITERIA AND EXPLICIT CONCENTRATED DESIGN LOADINGS FOR STEEL JOISTS AND JOIST GIRDERS.

FOUNDATION

1. THE DESIGN OF THE FOUNDATION SYSTEM WAS PREPARED BASED ON AN ASSUMED BEARING CAPACITY. CONTRACTOR TO VERIFY BEARING CAPACITY AT TIME OF EXCAVATION AND PROVIDE FINDINGS TO ARCHITECT.
2. FOOTINGS AND GRADE BEAMS DESIGNED FOR THE FOLLOWING NET SOIL BEARING PRESSURES:

   SPREAD FOOTINGS 1500 PSF
   CONTINUOUS FOOTINGS 1500 PSF
3. SLAB-ON-GRADE DESIGNED CONSIDERING A MODULUS OF SUBGRADE REACTION OF 125 PCI.
4. PLACE SLAB-ON-GRADE ON AT LEAST 6" OF GRANULAR BASE COURSE WITH VAPOR RETARDER BENEATH THE GRANULAR BASE COURSE. PLACE GRANULAR BASE COURSE IN LIFTS NOT EXCEEDING 6" IN LOOSE THICKNESS AND % OF MAXIMUM DRY DENSITY OBTAINED IN ACCORDANCE WITH ASTM COMPACT TO A MINIMUM OF 95 D-1557, MODIFIED PROCTOR METHOD.
5. INDEPENDENT TESTING AGENCY SHALL INSPECT AND PERFORM TESTS TO VERIFY THE ACTUAL ALLOWABLE SOIL BEARING PRESSURE AT FOUNDATION BEARING LOCATIONS. INDEPENDENT TESTING AGENCY SHALL NOTIFY STRUCTURAL ENGINEER OF LOCATIONS WHERE THE ACTUAL ALLOWABLE BEARING PRESSURE IS LESS THAN THE SPECIFIED VALUE OR WHERE FOUNDATION ELEVATIONS MUST BE MODIFIED TO BEAR ON APPROPRIATE MATERIAL. CONSTRUCTION OF THE FOUNDATION SYSTEM SHALL NOT PROCEED AT SUCH LOCATIONS UNTIL AN APPROPRIATE REMEDIAL ACTION HAS BEEN REVIEWED AND ACCEPTED BY STRUCTURAL ENGINEER.
6. CONSULT GEOTECHNICAL ENGINEER FOR SLOPE OF EXCAVATION CUTS.
7. PLACE REINFORCING STEEL AND CONCRETE AS SOON AS POSSIBLE AFTER EXCAVATION FOR THE FOUNDATION SYSTEM.
8. DO NOT CAST CONCRETE ON OR AGAINST SUBGRADE MATERIAL CONTAINING FROST, WATER OR SNOW. PROTECT SUBGRADE FROM FROST OR FREEZING DURING CONSTRUCTION OF FOUNDATION SYSTEM.
9. SUBGRADE WALLS ATTACHED TO SLAB AT THE TOP OF THE WALL AND WHICH RETAIN EARTH ON ONE SIDE DESIGNED AS "BRACED" WALLS. PROVIDE TEMPORARY BRACING OF "BRACED" WALLS UNTIL THE STRUCTURAL ATTACHMENT AT THE TOP HAS BEEN COMPLETED AND OBTAINED 75 STRENGTH SPECIFIED FOR THE BRACING ELEMENT. % OF THE 28-DAY CONCRETE COMPRESSIVE
10. CONCRETE SHALL OBTAIN THE SPECIFIED 28 DAY CONCRETE COMPRESSIVE STRENGTH PRIOR TO BACKFILLING AGAINST THE CONCRETE.
11. GRADE BEAMS AND WALLS THAT RETAIN EARTH ON BOTH SIDES SHALL BE BACKFILLED ON BOTH SIDES SIMULTANEOUSLY.
12. PROVIDE MINIMUM OF 36 INCHES OF FROST PROTECTION FROM TOP OF FINISHED GRADE TO UNDERSIDE OF FOUNDATION ELEMENTS WHENEVER ELEMENTS ARE ADJACENT TO A HEATED SPACE AND 48 INCHES WHENEVER ELEMENTS ARE NOT ADJACENT TO A HEATED SPACE.
13. PROVIDE CONTINUOUS BENTONITE WATERPROOFING ON THE SIDES AND UNDERSIDE OF SUBGRADE PITS AND ON THE OUTSIDE FACE OF WALLS THAT RETAIN EARTH ADJACENT TO OCCUPIABLE SPACES.

CONCRETE

1. PLACE AND CONSTRUCT CONCRETE IN ACCORDANCE WITH ACI 301.
2. DETAIL CONCRETE IN ACCORDANCE WITH ACI 315.
3. PROVIDE FOLLOWING CONCRETE TYPES AT SPECIFIED AREAS AND WITH SPECIFIED 28-DAY COMPRESSIVE STRENGTH:
   A. SAND AND NORMAL WEIGHT COARSE AGGREGATE (145 PCF, MAX.),
   0.50 MAXIMUM WATER/CEMENT RATIO,
   NO INTENTIONALLY ENTRAINED AIR
   SPREAD FOOTINGS 4000 PSI
   CONTINUOUS FOOTINGS 4000 PSI
   SLAB-ON-GRADE 4000 PSI

   B. SAND AND NORMAL WEIGHT COARSE AGGREGATE (145 PCF, MAX.),
   0.40 MAXIMUM WATER/CEMENT RATIO,
   6% PLUS-OR-MINUS 1 1/2% INTENTIONALLY ENTRAINED AIR,
   5% MAXIMUM CHERT IN AGGREGATE,
   3 GALLONS OF CALCIUM NITRITE PER CUBIC YARD OF CONCRETE

   FLATWORK EXPOSED TO DE-ICING SALTS 4000 PSI
4. UNLESS NOTED OTHERWISE, CONCRETE REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
5. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. SUPPLY IN FLAT SHEETS (NOT ROLLS).
6. PROVIDE CONCRETE PROTECTION FOR REINFORCEMENT IN ACCORDANCE WITH ACI 318, UNLESS NOTED OTHERWISE.
7. UNLESS NOTED OTHERWISE, "CONTINUOUS" REINFORCEMENT SHALL HAVE MINIMUM LAP OF CLASS "A" PER ACI 318 AT SPLICES AND SHALL HOOK AT DISCONTINUOUS ENDS. "CONTINUOUS" REINFORCEMENT SHALL BE CONTINUOUS THROUGH COLUMNS, PIERS, FOUNDATION CAPS OR OTHER INTERSECTING ELEMENTS. ALTERNATIVELY, "CONTINUOUS" REINFORCEMENT SHALL BE LAP SPLICED WITH A CLASS "A" LAP TO DOWELS IN THE INTERSECTING ELEMENTS THAT DEVELOP THE FULL YIELD STRENGTH OF THE "CONTINUOUS" REINFORCEMENT.

   LAPS OF WIRE MESH SHALL BE A MINIMUM OF TWO WIRE MESHES PLUS 2 INCHES.
8. JOINTS NOT INDICATED SHALL BE MADE AND LOCATED TO LEAST IMPAIR THE STRENGTH AND APPEARANCE OF THE STRUCTURE. HORIZONTAL JOINTS NOT PERMITTED IN CONCRETE EXCEPT WHERE THEY NORMALLY OCCUR OR WHERE INDICATED. VERTICAL JOINTS SHALL OCCUR ONLY AT LOCATIONS ACCEPTED BY STRUCTURAL ENGINEER.
9. PREPARE JOINTS BY ROUGHENING THE SURFACE OF THE CONCRETE IN AN ACCEPTABLE MANNER TO A FULL AMPLITUDE OF 1/4", SUCH THAT THE AGGREGATE IS EXPOSED UNIFORMLY AND LEAVING NO RESIDUE PARTICLES OR DAMAGED CONCRETE.
10. PLACE CONSTRUCTION OR CONTROL JOINTS IN THE SLAB ON GRADE AT MAXIMUM SPACING OF 15 FEET IN EACH DIRECTION. WHERE POSSIBLE, PLACE CONSTRUCTION AND CONTROL JOINTS ALONG COLUMN GRID LINES. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR JOINT FILLERS AND SEALANTS. SUBMIT PROPOSED CONSTRUCTION AND CONTROL JOINT LAYOUT AND DETAILS FOR ARCHITECT'S REVIEW AND ACCEPTANCE.
11.
12. DO NOT CUT OR WELD REINFORCING STEEL WITHOUT PRIOR ACCEPTANCE OF STRUCTURAL ENGINEER.
13. PROVIDE REBAR CHAIRS FOR REINFORCING STEEL. PROVIDE ADDITIONAL LONGITUDINAL SUPPORT BARS AS REQUIRED TO ASSURE PROPER SUPPORT FOR REINFORCING STEEL AND WIRE MESH.
14. DESIGN AND DETAIL FORMWORK AND SHORING SYSTEMS.
15. DO NOT REMOVE FORMWORK PRIOR TO CONCRETE ATTAINING 75 COMPRESSIVE STRENGTH.% OF THE SPECIFIED 28-DAY
16. HEADED CONCRETE ANCHORS SHALL CONFORM TO ASTM A108. SEE DRAWINGS FOR DIAMETER AND NOMINAL LENGTH.
17. DEFORMED BAR ANCHORS SHALL CONFORM TO ASTM A496.
18. ENSURE FULL CONSOLIDATION OF CONCRETE AROUND DOWELS, ANCHOR BOLTS, DEFORMED BAR ANCHORS, HEADED CONCRETE ANCHORS AND OTHER SIMILAR ITEMS DURING CONCRETE PLACEMENT.
19. DO NOT INCREASE OR REDUCE INDICATED DEPTH OR THICKNESS OF ANY CONCRETE FRAMING MEMBER OR ELEMENT AT ANY POINT TO OBTAIN SLOPES.
20. PROVIDE 3/4" CHAMFER AT EXPOSED CONCRETE EDGES, EXCEPT AT DOOR THRESHOLDS.

MASONRY

1. HOLLOW LOAD BEARING AND NON-LOAD BEARING CONCRETE MASONRY UNITS SHALL BE GRADE N CONFORMING TO ASTM C90 WITH MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2800 PSI FOR THE UNITS AND MINIMUM PRISM STRENGTH F'M = 2000 PSI.
2. MORTAR SHALL BE TYPE S.
3. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
4. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. REINFORCING STEEL THAT IS WELDED SHALL CONFORM TO ASTM A706, GRADE 60.
5. SPLICE VERTICAL REINFORCING STEEL MINIMUM OF 48 BAR DIAMETERS. SPLICE HORIZONTAL REINFORCING STEEL MINIMUM OF 36 BAR DIAMETERS.
6. ALL STEEL BEAMS SUPPORTING MASONRY OVER 4'-0" LONG SHALL HAVE 3/4"Øx6" HEADED STUDS SPACED 16" O.C. ON TOP FLANGE OF BEAM. MASONRY SHALL BE SOLID GROUTED AROUND STUDS.

LIGHT GAGE METAL FRAMING

1. DESIGN, FABRICATION AND INSTALLATION OF ALL LIGHT-GAGE METAL FRAMING SHALL BE IN ACCORDANCE WITH AISI "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS." ALL LIGHT GAGE METAL FRAMING AND ACCESSORIES SHALL BE FORMED FROM CORROSION RESISTANT STEEL PER ASTM A525, G60 COATING MEETING THE REQUIREMENTS OF ASTM A446.
2. STUDS, POSTS, BUILT-UP MEMBERS OR OTHER VERTICAL BEARING ELEMENTS SHALL BE OF SINGLE PIECES AND SHALL NOT BE SPLICED BETWEEN THE POINTS OF LOADING AND POINT OF SUPPORT.
3. CONNECTIONS SHALL BE SHOP OR FIELD WELDED OR WITH SELF-TAPPING SCREWS. WELDS SHALL BE TOUCHED UP WITH AN ACCEPTABLE ZINC-RICH PAINT., WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED.
4. PROVIDE ALL STRAPS, TRACKS, BRIDGING AND OTHER ACCESSORIES SHOWN AND IMPLIED AS NECESSARY TO COMPLETE THE WORK AND MEET AISI SPECIFICATIONS AND LOCAL REQUIREMENTS.
5. METAL STUD BEARING WALLS SHALL BE OF ADEQUATE SIZE AND GAGE TO SAFELY SUPPORT ALL GRAVITY DEAD AND LIVE LOADS IN ADDITION TO THE APPROPRIATE LATERAL LOADS. STUDS FOR METAL BEARING WALLS SHALL BE 16 GA18 GAGE MIN.
6. PROVIDE DOUBLE STUDS ADJACENT TO ALL OPENINGS.
7. ALIGN JOISTS, TRUSSES OR OTHER FRAMING DIRECTLY ABOVE VERTICAL WALL STUDS IN BEARING WALLS OR PROVIDE ADEQUATE STIFFENERS TO SUPPORT FRAMING WHERE BEARING BETWEEN STUDS.
8. THE QUANTITY, SIZE AND SPACING OF FASTENERS SHALL BE AS REQUIRED BY THE APPLICABLE LGSEA AND AISI STANDARDS, BUT NOT LESS THAN REQUIRED BY IBC TABLE 2304.9.1 WHERE SCREWS SHALL REPLACE NAILS AS FOLLOWS BASED ON THE TOTAL COMBINED THICKNESS, T, OF THE CONNECTED PARTS: #6 SCREWS FOR T<.110; #8 FOR T<.14; #10 FOR T <.17; #12 FOR T < .21; 1/4"ø FOR T>.21.
9. COORDINATE LIGHT GAGE FRAMING WITH THE CONCRETE AND MASONRY CONSTRUCTION AND ERECTION OF STRUCTURAL STEEL.
10. SHOP FABRICATE IN THE LARGEST AND FEWEST NUMBER OF PIECES AS IS PRACTICAL FOR SHIPPING AND HANDLING IN THE FILED. PROVIDE SHOP DRAWINGS SHOWING THE LIGHT GAGE FRAMING LAYOUTS INDICATING SIZE AND GAGES, THE EXTENT OF ALL PREFABRICATION AND ALL CONNECTIONS FOR THE ENGINEER'S REVIEW.

STEEL

1. DETAIL, FABRICATE AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH THE LATEST AISC, ASD SPECIFICATIONS AND STANDARDS.
2. STRUCTURAL STEEL ROLLED SHAPES AND PLATES IN THE FOLLOWING AREAS SHALL CONFORM TO THE DESIGNATED SPECIFICATION:

WIDE FLANGES	ASTM A992
RECTANGULAR HSS	ASTM A500 GR. C F_y = 50 KSI
ROUND HSS	ASTM A500 GR. C F_y = 50 KSI
ANGLES	ASTM A992 GR. 50
CONNECTION PLATES	ASTM A572 GR. 50
CHANNELS	ASTM A992 F_y = 50 KSI
STRUCTURAL PIPE	ASTM A53 GR. B F_y = 35 KSI
OTHER FRAMING	ASTM A36

3. PROVIDE STEEL WITH SHOP PRIME COAT
4. VISUALLY EXPOSED STEEL FRAMING SYSTEMS SHALL CONFORM TO THE AISC REQUIREMENTS FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS), EXCEPT ELIMINATE THE SURFACE FINISH REQUIREMENTS AND ELIMINATE THE REQUIREMENTS FOR FINISHING THE WELDS.
5. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B (FY = 46 KSI).
6. STRUCTURAL PIPE SHALL CONFORM TO ASTM A501 OR ASTM A53, TYPE E OR S, GRADE B (FY = 35 KSI MINIMUM). ROUND HSS SHALL CONFORM TO ASTM A500, GRADE B (FY=42 KSI MINIMUM).
7. UNLESS NOTED OTHERWISE, ANCHOR RODS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

   3/4" DIAMETER ANCHOR RODS ASTM F1554, GRADE 36
   OTHER THAN 3/4" DIAMETER ASTM F1554, GRADE 55

   INSTALL ANCHOR RODS WITH WASHERS AND NUTS.
8. FOR BOLTED CONNECTIONS, USE HIGH-STRENGTH BOLTS IN ACCORDANCE WITH THE AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."

BEAM SIZE	MIN. NO. 3/4"Ø BOLTS	F (ASD) MIN
W8, W10	2	10 K
W12, W14	3	25 K
W16, W18	4	37 K
W21, W24	5	45 K
W27, W30	7	65 K
W36	9	80 K

9. STEEL DECK:
   A. NONCOMPOSITE STEEL ROOF DECK:
      I. NONCOMPOSITE STEEL DECK SHALL CONFORM TO ASTM A446 WITH MINIMUM YIELD STRENGTH OF 33 KSI.
      II. GALVANIZE PER ASTM A525, G90 AT EXTERIOR EXPOSED CONDITIONS; OTHERWISE, GALVANIZE PER ASTM A525, G60.
      III. PROVIDE DECK GAGE INDICATED ON STRUCTURAL DRAWINGS.
      IV. FASTEN DECK TO ALL SUPPORTING STEEL INCLUDING MISCELLANEOUS STEEL SHAPES. SEE SCHEDULE FOR DECK FASTENING REQUIREMENTS.
      V. STEEL DECK SUPPLIER SHALL VERIFY THAT INDICATED DECK GAGE AND DECK CONNECTION CRITERIA". REQUIREMENTS ARE ADEQUATE TO RESIST THE SPECIFIED NET UPLIFT LOADING INDICATED UNDER "DESIGN
   C. SPAN DECK OVER MINIMUM OF TWO SPANS UNLESS THE DECKED AREA ONLY EXTENDS ONE SPAN IN THE DIRECTION OF THE SPAN.
   D DECK WELDS SHALL BE IN ACCORDANCE WITH ANSI/AWS D1.3.
   E. PROVIDE AND INSTALL MISCELLANEOUS DECK SUPPORT ANGLES AT COLUMNS AND SIMILAR CONDITIONS.
   F. STEEL DECK MANUFACTURER SHALL FURNISH COMPLETE SHOP DRAWINGS DEPICTING DECK PLACEMENT, SHEET METAL CLOSURES, SHEET METAL ACCESSORIES, DECK CONNECTION REQUIREMENTS, SHEAR CONNECTOR PLACEMENT AND SHEAR CONNECTOR PLACEMENT DETAILS.
10. WELDING SHALL CONFORM TO STANDARDS OF AWS D1.1. ELECTRODES FOR FIELD AND SHOP WELDING SHALL CONFORM TO AWS RECOMMENDATIONS. WELDS NOT INDICATED SHALL BE AWS MINIMUM OR AS REQUIRED TO SATISFY STRENGTH CRITERIA, WHICHEVER IS MORE STRINGENT. FOLLOW PREHEAT REQUIREMENTS OF AWS. LOW HYDROGEN ELECTRODES MAY BE UTILIZED TO MINIMIZE THE USE OF PREHEAT. USE LOW HYDROGEN ELECTRODES FOR WELDING TO CONCRETE EMBEDMENT PLATES OR OTHER STRUCTURAL STEEL ELEMENT IN CONTACT WITH CONCRETE OR MASONRY.
11. EXTERIOR EXPOSED STEEL PLATES EMBEDDED INTO HORIZONTAL SURFACES SHALL BE STAINLESS STEEL CONFORMING TO ASTM A167 OR ASTM A240, TYPE 304.
12. CAMBER BEAMS UPWARD THE DESIGNATED AMOUNT INDICATED ON STRUCTURAL DRAWINGS. BEAMS WITHOUT A SPECIFIED CAMBER SHALL BE ORIENTED SUCH THAT ANY INCIDENTAL CAMBER IS UPWARD.
13. SPLICING STRUCTURAL MEMBERS WHERE NOT DETAILED ON STRUCTURAL DRAWINGS IS PROHIBITED WITHOUT PRIOR ACCEPTANCE BY STRUCTURAL ENGINEER.
14. SHOP CUT OPENINGS AND SLEEVES IN STRUCTURAL STEEL MEMBERS. FIELD BURNING, CUTTING, REDRILLING OR OTHER FIELD MODIFICATION IS NOT PERMITTED ON STRUCTURAL STEEL MEMBERS WITHOUT PRIOR ACCEPTANCE BY STRUCTURAL ENGINEER.
15. FINGER-TIGHTEN BOLTED CONNECTIONS DETAILED IN THE FINAL CONDITION TO PERMIT SLIP BETWEEN CONNECTED ELEMENTS. NOTCH FIRST BOLT THREAD PROJECTING FROM THE NUT OR INSTALL A JAM NUT.
16. GENERALLY, THE DRAWINGS DO NOT DISTINGUISH BETWEEN SHOP VERSUS FIELD WELDING. CONTRACTOR WELDING. SHALL DETERMINE THE MOST ECONOMICAL, EFFICIENT AND PRACTICAL COMBINATIONS OF FIELD AND SHOP
17. HEADED CONCRETE ANCHORS, SHEAR CONNECTORS, AND DEFORMED BAR ANCHORS SHALL BE AUTOMATICALLY END WELDED.
18. SEE ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS. FOR FIREPROOFING PURPOSES, FRAMING SHALL BE CONSIDERED AS "UNRESTRAINED" AS DEFINED BY UL.

INSPECTION OF FABRICATOR(S):	PERIODIC
1. APPLICABLE ELEMENT (FABRICATOR CERTIFICATION REQUIREMENTS):	
a. STRUCTURAL STEEL (AISC CERTIFIED FOR CONVENTIONAL STEEL BUILDING) b. STEEL JOISTS/JOIST GIRDERS (SJI MEMBER) c. STEEL ROOF DECK (SDI MEMBER)	
2. WHEN SPECIAL INSPECTIONS ARE REQUIRED BY BUILDING OFFICIAL:	
a) FABRICATION AND IMPLEMENTATION PROCEDURES: THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION, CONTROL OF THE WORKMANSHIP, AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK.	
3. WHEN SPECIAL INSPECTIONS ARE NOT REQUIRED BY THE BUILDING OFFICIAL:	
a) UPON COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.	

SPECIAL INSPECTION	FREQ.	REFERENCED STANDARD	X= REQUIRED INSPECTIONS
SOILS:			
1. PRIOR TO THE PLACEMENT OF PREPARED FILLS, VERIFY THAT THE SITE HAS BEEN PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.	---	GEOTECHNICAL ENGINEERING REPORT; IBC 1704.7	
2. FILL PLACEMENT 12" THICK OR GREATER - VERIFY THAT THE MATERIAL BEING USED AND MAXIMUM LIFT THICKNESS COMPLY WITH THE GEOTECHNICAL REPORT.	CONTINUOUS		
3. VERIFY, AT THE FREQUENCY SPECIFIED IN THE GEOTECHNICAL REPORT, THAT THE IN-PLACE DRY DENSITY OF COMPACTED FILL COMPLIES WITH THE GEOTECHNICAL REPORT.	---		
CONCRETE:			
1. INSPECTION OF REINFORCING STEEL, SIZE AND PLACEMENT	PERIODIC	ACI 318: 7.1-7.7	
2. INSPECTION OF REINFORCING STEEL WELDING:			
a. VERIFICATION OF WELDABILITY OF REINFOCRING STEEL OTHER THAN ASTM A706	PERIODIC	AWS D1.4; ACI 318: 3.5.2	
b. SHEAR REINFORCEMENT	CONTINUOUS		
c. OTHER REINFORCING STEEL	PERIODIC		
3. INSPECT BOLTS TO BE INSTALLED IN CONCRETE, PRIOR TO AND DURING PLACEMENT OF CONCRETE.	PERIODIC	IBC 1912.5	
4. VERIFYING USE OF REQUIRED DESIGN MIX	PERIODIC	ACI 318: Ch. 4, 5.2-5.4	
5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP, TEMP. AND AIR CONTENT TESTS.	CONTINUOUS	ASTM C 172; ASTM C 31; ACI 318: 5.6, 5.8	
6. INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	CONTINUOUS	ACI 318: 5.9, 5.10	
STEEL CONSTRUCTION:			
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS, HIGH-STRENGTH BOLTING:		APPLICABLE ASTM MATERIAL SPECIFICATIONS: AISC 335 Sec. A3.4;AISC LRFD SECTION A3.3	X
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	PERIODIC		
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	PERIODIC		
2. INSPECTION OF BEARING-TYPE CONNECTIONS	PERIODIC	AISC LRFD Sec. M2.5	X
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL:		ASTM A-6 OR ASTM A-568	
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	---		
b. MANUFACTURER'S CERTIFIED MILL TEST REPORTS REQUIRED	---		
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:		AISC ASD Sec. A3.6	
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS	---		
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	---		
5. INSPECTION OF WELDING:		AWS D1.1	X
a. STRUCTURAL STEEL:			
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	CONTINUOUS		
2) MULTI-PASS FILLET WELDS	CONTINUOUS		
3) SINGLE-PASS FILLET WELDS > 5#16 " (7.9mm)	CONTINUOUS		
4) SINGLE-PASS FILLET WELDS < 5#16 " (7.9mm)	PERIODIC		
5) FLOOR AND ROOF DECK WELDS	PERIODIC	AWS D1.3	
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:	PERIODIC	IBC 1704.3.2	X
a. DETAILS SUCH AS BRACING AND STIFFENING			
b. MEMBER LOCATIONS			
c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION			
MASONRY CONSTRUCTION:			
1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		ACI 530/ASCE 6/TMS 602-ART. 2.6A, ART. 3.3B, ART. 3.4, ART. 3.6A	
a. PROPORTIONS OF SITE-PREPARED MORTAR.	PERIODIC		
b. CONSTRUCTION OF MORTAR JOINTS.	PERIODIC		
c. LOCATION OF REINF. AND CONNECTORS.	PERIODIC		
2. THE INSPECTION PROGRAM SHALL VERIFY:			
a. SIZE AND LOCATIONS OF STRUCTURAL ELEMENTS.	PERIODIC	ART. 3.3G	
b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.	PERIODIC	ACI 530/ASCE 5/TMS 402-SEC. 1.2.2(e), 2.1.4, 3.1.6, 1.12, 2.1.10.6.2, 3.2.3.4(b)	
c. SPECIFIED SIZE, GRADE AND TYPE OF REINF.	PERIODIC		
d. WELDING OF REINFORCING BARS.	CONTINUOUS		
e. PROTECTION OF MASONRY DURING COLD WEATHER (TEMP. BELOW 40 DEGREES F.) OR HOT WEATHER (TEMP. ABOVE 90 DEGREES F.).	PERIODIC	IBC SEC. 2104.3 AND 2104.4	
3. PRIOR TO GROUTING, THE FOLLOWING SHELL BE VERIFIED TO ENSURE COMPLIANCE:			
a. GROUT SPACE IS CLEAN.	PERIODIC	ACI 530/ASCE 6/TMS 602-ART. 3.2D, ART. 3.4, SEC. 1.12, ART. 2.6B, ART. 3.3B	
b. PLACEMENT OF REINF. AND CONNECTORS.	PERIODIC		
c. PROPORTIONS OF SITE PREPARED GROUT.	PERIODIC		
d. CONSTRUCTION OF MORTAR JOINTS.	PERIODIC		
4. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS:	CONTINUOUS	ACI 530/ASCE 6/TMS 602-ART. 3.5	
5. PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.	CONTINUOUS	ACI 530/ASCE 6/TMS 602-ART. 1.4. AND IBC SEC. 2105.2.2 AND 2105.3	
6. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	PERIODIC	ACI 530/ASCE 6/TMS 602-ART. 1.5.	
ADHESIVE ANCHORS/REINF.:			
1. DURING PLACEMENT OF ADHESIVE ANCHORS OR REINFORCEMENT EMBEDDED WITH ADHESIVE (AS SPECIFIED ON THE CONSTRUCTION DOCUMENTS) IN MASONRY AND CONCRETE:			
a. SIZE AND EMBEDMENT OF ANCHORS/REINF.	CONTINUOUS	MANUFACTURERS INSTALLATION INSTRUCTIONS	
b. ANCHORS/REINF. INSTALLED PER MANUFACTURERS RECOMMENDATIONS.	CONTINUOUS		

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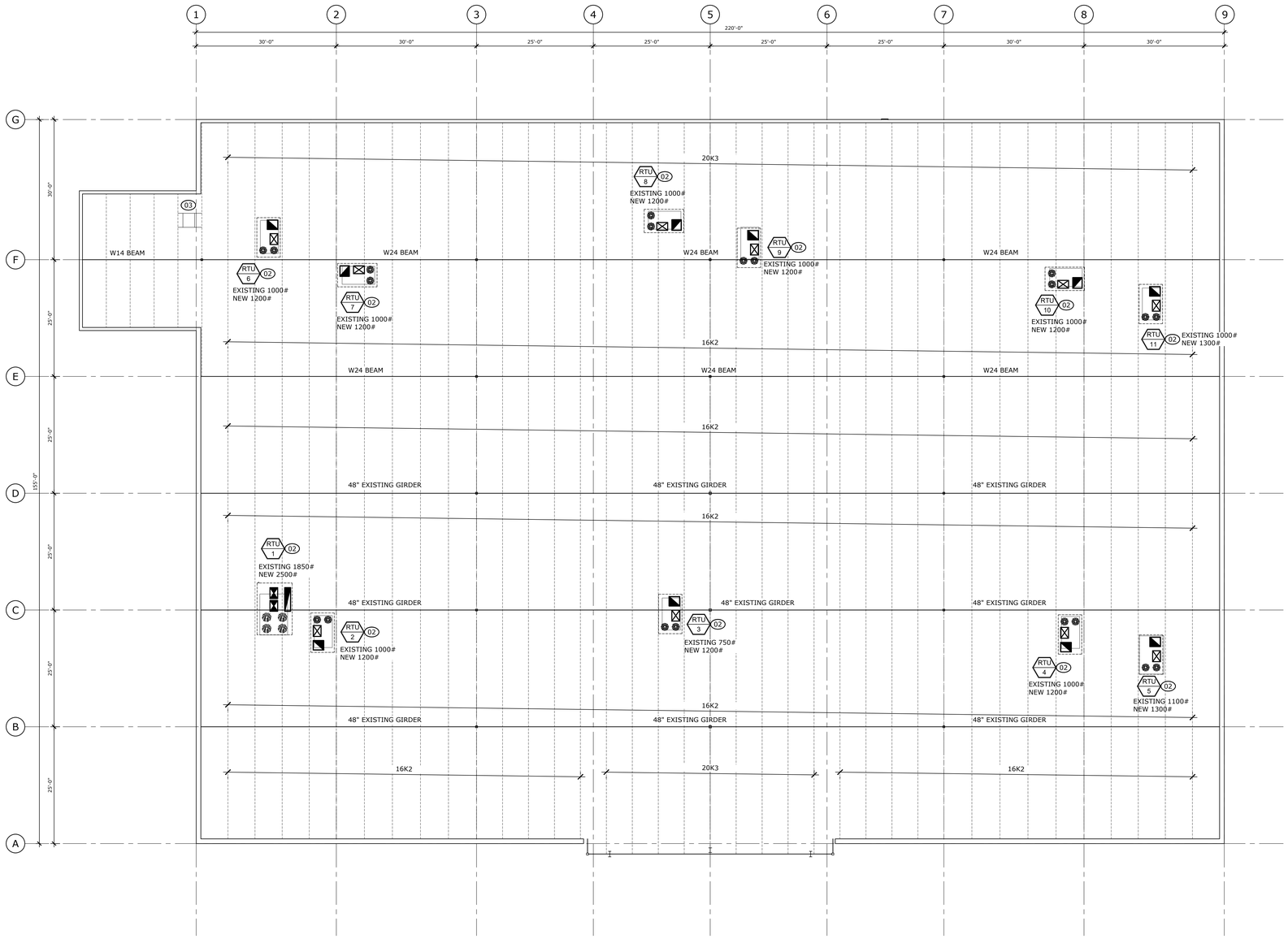
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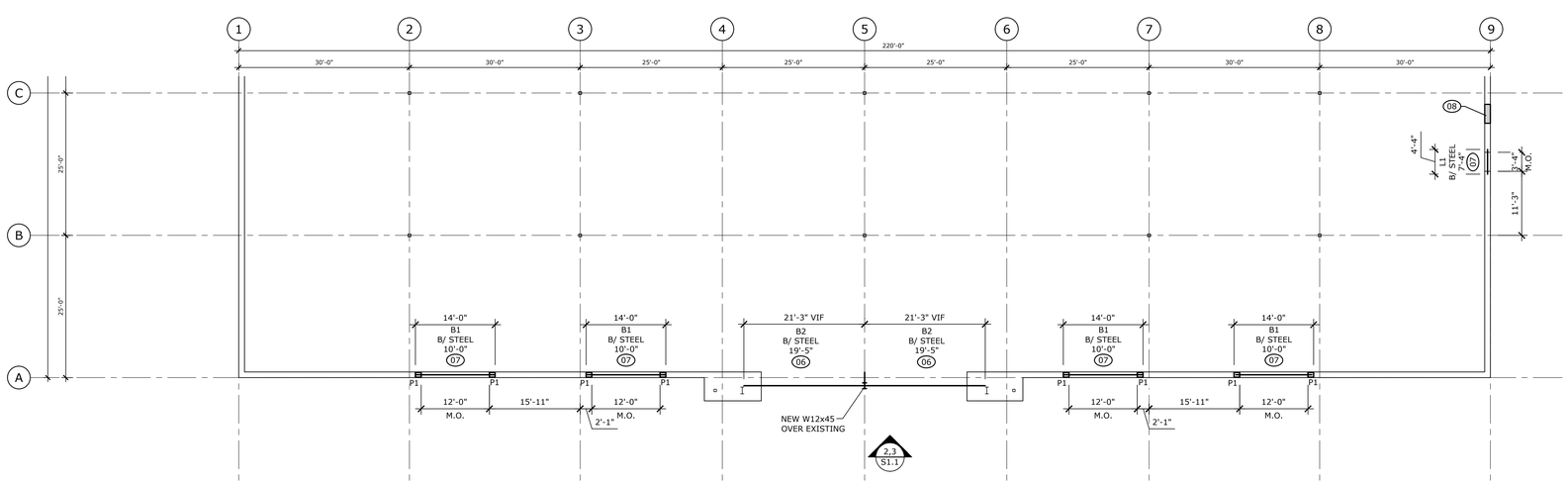
TYPE	DATE
PERMIT/CONSTRUCTION SET	08/14/26

DRAWN BY
CHECKED BY
PROJECT NUMBER 26-91020
DATE 08/14/2026
SHEET TITLE STRUCTURAL NOTES
SHEET NUMBER S0.1



1 UPPER FRAMING PLAN

SCALE: 3/32" = 1'-0"



2 PARTIAL LOWER FRAMING PLAN

SCALE: 3/32" = 1'-0"

GENERAL NOTES

1. ALL DESIGN, DETAILING, FABRICATION, AND ERECTION OF STRUCTURAL STEEL, LATEST EDITION (CODE OF STANDARD PRACTICE SECTION ACCEPTED). IT SHALL FURTHER CONFORM TO ALL APPLICABLE LOCAL BUILDING CODES.
2. UNLESS OTHERWISE NOTED ON DRAWINGS, ALL STRUCTURAL STEEL STANDARD ROLLED SHAPES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A992 Gr. 50 STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B. STEEL PIPE SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B. STRUCTURAL SHEETS AND STRIPS SHALL CONFORM TO ASTM A570, GRADE 30, OR ASTM A611, GRADE B.
3. ALL SHOP AND FIELD CONNECTIONS SHALL BE BOLTED OR WELDED.
4. ALL BOLTS (INCLUDING WASHERS AND NUTS) SHALL CONFORM TO THE REQ'MENTS OF ASTM A325 OR A490, AS SHOWN ON THE DRAWINGS, EXCEPT ANCHOR BOLTS MAY CONFORM TO ASTM A307. STRUCTURAL STEEL BEAMS, IF REQUIRED, SHALL CONFORM TO THE PROVISIONS OF THE RESEARCH COUNCIL OF RIVETED AND BOLTED STRUCTURAL JOINTS "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS"
5. THE MAXIMUM SIZE OF BOLTS SHALL BE 3/4" DIAMETER U.O.N. AND EACH CONNECTION SHALL HAVE A MINIMUM OF TWO BOLTS, WITH ONE HARDENED WASHER PER BOLT.
6. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS AND CONFORM TO THE REQ'MENTS OF THE "STRUCTURAL WELDING CODE" ANSI/AWS D1.1 LATEST ED.
7. ALL WELDING ELECTRODES SHALL BE E70 XX AND SHALL COMPLY WITH THE REQ'MENTS OF TABLE 4.1 OF THE "STRUCTURAL WELDING CODES" ANSI/AWS D1.1 LATEST EDITION.
8. NALL WELDED OR BOLTED CONNECTIONS SHALL HAVE A MINIMUM SHEAR CAPACITY OF 12 KIPS.
9. WELDS NOT OTHERWISE NOTED ON DRAWINGS SHALL BE CONTINUOUS FILLET WELDS. THE MINIMUM SIZE SHALL BE 1.4" OR AS REQUIRED BY THE AISC SPECIFICATIONS, WHICHEVER IS LARGER.
10. UNLESS OTHERWISE NOTED, ALL SIMPLE BEAM SHEAR CONNECTIONS SHALL BE MADE USING DOUBLE ANGLES. CONNECTIONS SHALL BE HIGH STRENGTH BOLT BEARING TYPE, WITH THREADED PARTS INCLUDED IN THE SHEAR PLANE.
11. THE CONTRACTOR SHALL REVIEW SHOP DRAWINGS. THE SHOP DRAWINGS SHALL INCLUDE, BUT NOT BE LIMITED TO, FRAMING PLANS, SHOP AND FIELD CONNECTION DETAILS, ERECTION, SEQUENCES, ETC. FRAMING (ERECTION) PLANS SHALL INCLUDE, IN ADDITION TO PIECE MARKS, ALL DIMENSIONS SHOWING BEAM LOCATIONS RELATIVE TO COLUMN CENTERLINES. DO NOT COMBINE THE STRUCTURAL STEEL ERECTION DRAWINGS WITH STEEL DECK AND FIELD INSTALLED SHEAR STUD LAYOUT DRAWINGS. SHOP DRAWINGS AND CONNECTIONS ARE TO BE DONE BY A DESIGN PROFESSIONAL LICENSED IN CURRENT STATE.
12. ALL CONNECTIONS, UNLESS FULLY DETAILED ON THE STRUCTURAL DRAWINGS, SHALL BE DESIGNED AND DETAILED BY THE LICENSED PROFESSIONAL STRUCTURAL STEEL FABRICATOR. THE DESIGN AND DETAILING SHALL COMPLY WITH ALL APPLICABLE CODES.
13. WHENEVER THE CONSTRUCTION SCHEDULING REQUIRES THE ERECTION OF STRUCT. MEMBERS WHICH, BY THEMSELVES WOULD BE CONSIDERED LATERALLY UNSTABLE, ADEQUATE TEMPORARY BRACING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR. ALL SUCH TEMPORARY BRACING SHALL BE REMOVED BY THE CONTR., WHEN NO LONGER REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
14. BEARING SURFACES OF ALL COLUMNS SHALL BE FINISHED.
15. ALL CUTS, HOLES, REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS FOR REVIEW BY THE GC. BURNING OF HOLES OR CUTS IN STRUCTURAL MEMBERS IN THE FIELD SHALL NOT BE ALLOWED WITHOUT PRIOR REVIEW BY THE ARCH/.ENGR.
16. AFTER INSPECTION AND BEFORE LEAVING THE SHOP, ALL STRUCTURAL STEEL SHALL BE CLEANED OF ALL LOOSE MILL SCALE, RUST, SPATTER, SLAG AND FLUX DEPOSITS, OIL, DIRT, AND OTHER FOREIGN MATTER BY POWER DRIVEN WIRE BRUSHES OR OTHER APPROVED METHODS IN ACCORDANCE WITH SSPC SPECIFICATIONS.
17. ALL EQUIPMENT TO BE SUSPENDED MUST BE SUSPENDED FROM THE TOP CHORD OF THE BAR JOISTS UNLESS SPECIFICALLY STATED OTHERWISE FROM THE STRUCTURAL ENGINEER.
18. CONTRACTORS RESPONSIBLE FOR COORDINATION OF EQUIPMENT CUTS AND OPENING AND/OR CURB SIZES PRIOR TO INSTALLATION OF FRAME SUPPORT BELOW DECKING. ADJUST OPENINGS & FRAMES AS NECESSARY.
19. ALL SEISMIC REQUIREMENTS FOR EQUIPMENT SUPPORT, AS REQUIRED PER LOCAL CODE, SHALL BE PROVIDED IN ITS ENTIRETY.
20. ALL FRAMES TO BE L4x4x$\frac{1}{4}$ UNLESS NOTED OTHERWISE.
21. ALL ROOFTOP EQUIPMENT SHALL HAVE MECHANICAL CONNECTIONS TO ROOF CURBS. NO GRAVITY CONNECTIONS WILL BE APPROVED.

KEYED NOTES

(01) NEW ROOF FRAME REQUIRED FOR PROPOSED EQUIPMENT MOUNTED ABOVE ROOF. PROVIDE ANGLE IRON FRAME, AND CUT DECK AS REQUIRED. COORDINATE WITH FINAL EQUIPMENT CUT SHEETS PRIOR TO INSTALLATION OF FRAMES. FRAME REQUIRED FOR ALL DECK PENETRATIONS OVER 12"x12". CONTRACTOR TO COORDINATE ALL CLEARANCE REQUIREMENTS FROM INTAKES (10'-0"" AND ADJUST FAN LOCATIONS IF REQUIRED. GC TO VERIFY EXISTING JOISTS AT NEW UNITS AND PROVIDE FINDINGS TO ARCHITECT PRIOR TO INSTALLATION OF NEW RTUS. REFER TO DETAILS.

(02) NEW RTU AND CURB ADAPTER. REUSE EXISTING ANGLE FRAMING AND CURB.

(03) EXISTING ROOF FRAME FOR NEW ROOF HATCH.

(04) NOT USED

(05) REMOVE ALL UNUSED EXISTING EQUIPMENT. INFILL METAL DECK, INSULATION, AND ROOFING MEMBRANE TO MATCH EXISTING CONSTRUCTION. REFER TO A3.0 ROOF PLAN FOR INFORMATION.

(06) NEW BEAM LINTEL FOR NEW GLAZING RE: DETAILS. PROVIDE SHORING AS REQUIRED.

(07) NEW LINTEL FOR NEW OPENINGS CENTERED ON CMU WALL RE: DETAILS. PROVIDE SHORING AS REQUIRED.

(08) INFILL PORTION OF OPENING WITH CMU TO MATCH EXISTING. TOOTH IN CMU AS REQUIRED. RE: DETAILS AND ELEVATIONS

STEEL SCHEDULE

#	OPENING	MEMBERS
L1	SEE PLAN	(3) L5" x 3½" x 5/16" LINTEL (LLV) W/ ½" Ø ANCHOR BOLTS, 6" BRG OVER SOLID CMU OR SOLID GROUTED CELLS VIF WALL THICKNESS
B1	SEE PLAN	W12x50 W/ ⅜" x 11½" x M.O. PLATE VIF WALL THICKNESS
B2	SEE PLAN	HSS 12"x8"x⅜"
P1		BEARING PLATE: PL ½x10"x12" W/ (2) 3/4"Øx8" HEADED CONCRETE ANCHORS VIF WALL THICKNESS

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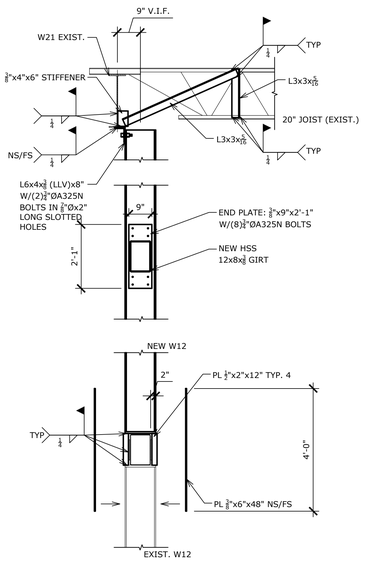
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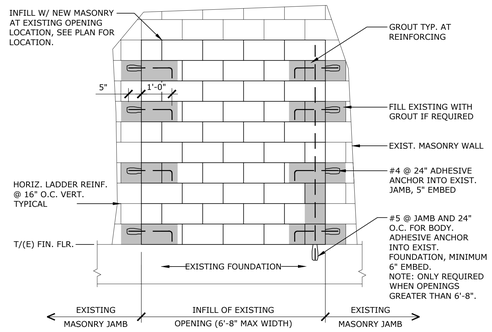
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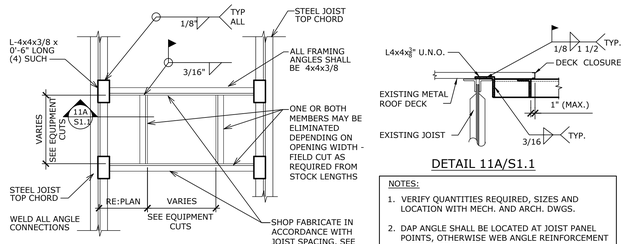
DRAWN BY
CHECKED BY
PROJECT NUMBER 26-91020
DATE 08/14/2026
SHEET TITLE FRAMING PLAN
SHEET NUMBER S1.0



10 SECTION SCALE: 1/2" = 1'-0"



13 CMU INFILL DETAIL

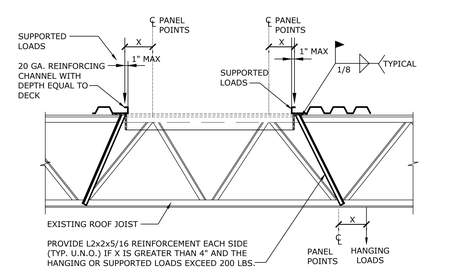


NOTE: VERIFY OPENING SIZES AND PROVIDE FRAMES AT ALL ROOF OPENINGS LARGER THAN 12" BOTH WAYS.

DETAIL 11A/S1.1

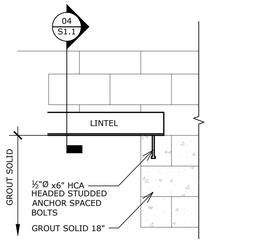
NOTES:
1. VERIFY QUANTITIES REQUIRED, SIZES AND LOCATION WITH MECH. AND ARCH. DWGS.
2. DAP ANGLE SHALL BE LOCATED AT JOIST PANEL POINTS, OTHERWISE WEB ANGLE REINFORCEMENT MUST BE PROVIDED.

11 TYP FRAME @ OPENINGS SCALE: 3/4" = 1'-0"



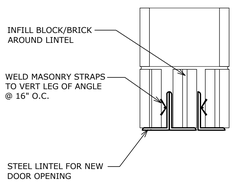
SCALE: 3/4" = 1'-0"

12 PANEL POINT REINFORCING DETAIL

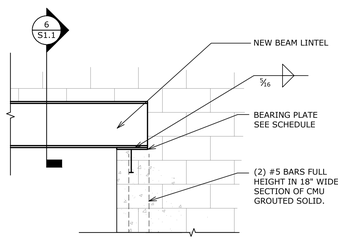


SCALE: 3/4" = 1'-0"

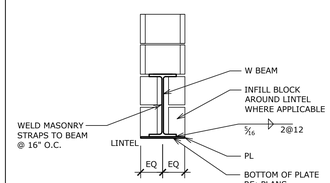
3 ANGLE LINTEL ELEV.



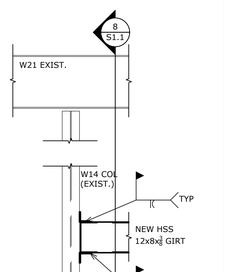
4 SECTION SCALE: 1 1/2" = 1'-0"



5 LINTEL ELEVATION SCALE: 3/4" = 1'-0"

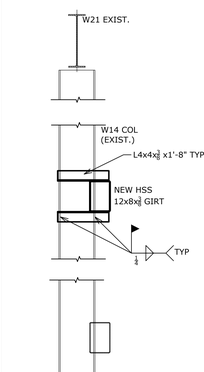


6 SECTION SCALE: 3/4" = 1'-0"

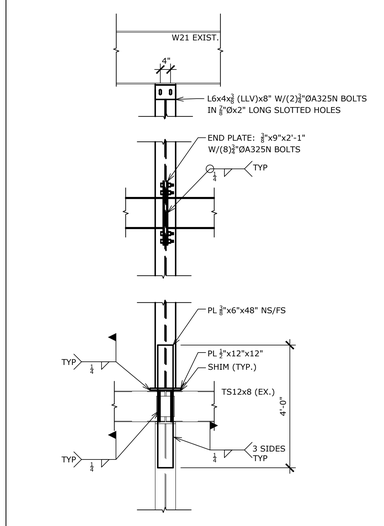


SCALE: 1/2" = 1'-0"

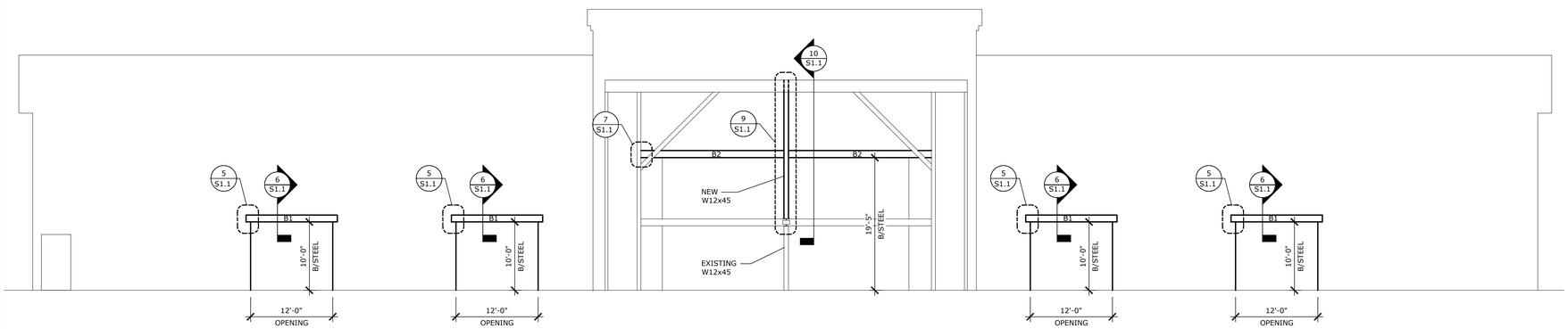
7 ENLARGED DETAIL



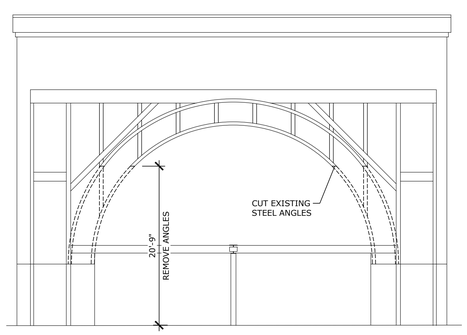
8 SECTION SCALE: 1/2" = 1'-0"



9 ENLARGED DETAIL SCALE: 1/2" = 1'-0"



1 PARTIAL GIRT PLAN SCALE: 1/8" = 1'-0"



2 PARTIAL GIRT DEMOLITION PLAN SCALE: 1/8" = 1'-0"

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REVISION DATES

NO.	DATE	TYPE

ISSUE DATES

TYPE	DATE
PERMIT/CONSTRUCTION SET	08/14/26

DRAWN BY
CHECKED BY
PROJECT NUMBER 26-91020
DATE 08/14/2026
SHEET TITLE
FRAMING DETAILS
SHEET NUMBER S1.1

MECHANICAL SYMBOLS

- 10x10 / 10x10 — NEW DUCT
- (E) 10x10 / (E) 10x10 — EXISTING DUCT TO REMAIN
- (R) 10x10 / (R) 10x10 — EXISTING DUCT TO BE REMOVED
- (ER) 10x10 / (ER) 10x10 — EXISTING TO BE RELOCATED DUCT
- (ERL) 10x10 / (ERL) 10x10 — EXISTING RELOCATED DUCT
- CONNECT NEW DUCT TO EXISTING DUCT
- TERMINATION OF EXISTING DUCT
- INCLINED RISER (R) / DROP (D) ARROW IN DIRECTION OF AIRFLOW
- AIRFLOW / AIRFLOW — DUCT REDUCER SQUARE TO SQUARE TRANSITION (FLAT ON BOTTOM UNLESS OTHERWISE NOTED)
- AIRFLOW / AIRFLOW — DUCT REDUCER SQUARE TO ROUND TRANSITION
- VANED 90° RECTANGULAR ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING, ONLY ON SUPPLY DUCTWORK)
- ROUND 90° ELBOW (RADIUS TO BE 0.5 TIMES DUCT WIDTH MINIMUM)
- SUPPLY/RETURN BRANCH TAP W/VD (SEE DETAILS FOR BRANCH TAP CONFIGURATIONS)
- RECTANGULAR SUPPLY DUCTWORK RISER
- RECTANGULAR RETURN/TRANSFER DUCTWORK RISER
- RECTANGULAR EXHAUST DUCTWORK RISER
- FLEXIBLE DUCTWORK TO DIFFUSER

(ALL DUCTWORK IS IN INCHES & INDICATES CLEAR INSIDE DIMENSIONS UNLESS OTHERWISE NOTED)

- CEILING SUPPLY DIFFUSER (1-WAY THROW)
- CEILING SUPPLY DIFFUSER (2-WAY THROW – SQUARE/CORNER)
- CEILING SUPPLY DIFFUSER (3-WAY THROW)
- CEILING SUPPLY DIFFUSER (4-WAY THROW)
- CEILING RETURN/TRANSFER GRILLE
- CEILING EXHAUST GRILLE
- SIDEWALL SUPPLY REGISTER
- SIDEWALL RETURN/TRANSFER GRILLE
- AD-1 — 8ø / 120 — (AD-X) AIR DEVICE; (XXxXX / XXØ) NECK SIZE

(SEE DIFFUSER SCHEDULE FOR COMPLETE LISTING OF AIR DEVICES ON THIS PROJECT)

- XXX / ## — [XXX] – EQUIPMENT TYPE; [##] – EQUIPMENT DESIGNATION [SEE MECHANICAL SCHEDULES FOR EQUIPMENT SPECIFICATIONS]
- (#) — DRAWING KEYED NOTE
- POINT OF NEW CONNECTION TO EXISTING
- TERMINATION OF POINT OF DEMOLITION
- CONTINUATION MARK (RECTANGULAR)
- CONTINUATION MARK (ROUND)
- X — REVISION CLOUD W/DELTA

- XX" / 0 — XX" – PIPE SIZE
- PIPE TURNING UP
- PIPE TURNING DOWN
- CONNECTION TOP
- CONNECTION BOTTOM
- TEE, OUTLET DOWN
- TEE, OUTLET UP
- DIRECTION OF FLOW
- X" LF — PIPING SLOPE PER LINEAR FOOT

- VOLUME DAMPER/ BALANCING DAMPER
- MOD — MOTOR OPERATED DAMPER (MOD)
- BDD — BACKDRAFT DAMPER (BDD)
- OBD — OPPOSED BLADE DAMPER (OBD)
- FD — FIRE DAMPER (FD)
- FSD — FIRE/SMOKE DAMPER (FSD)
- SD — SMOKE DAMPER (SD)

- T — THERMOSTAT
- Tc — COOLING ONLY THERMOSTAT
- H — HUMIDITY SENSOR
- S — REMOTE TEMPERATURE SENSOR
- DS — DUCT TEMPERATURE SENSOR
- CO — CARBON MONOXIDE SENSOR
- CO2 — CARBON DIOXIDE SENSOR

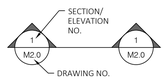
FINAL LOCATION BY OWNER. COORDINATE LOCATION W/ PARTITIONS AND BUILDING STRUCTURE, FINAL LOCATION TO NOT BE IN DIRECT PATH OF SUNLIGHT THROUGH WINDOWS OR SKYLIGHTS

- SUPPLY AIR FLOW
- OUTDOOR/RETURN/EXHAUST/TRANSFER AIR FLOW
- UC — UNDERCUT DOOR (SEE PLAN FOR SIZE)

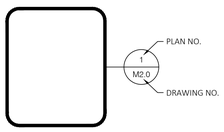
DRAWING TITLE



SECTION/ELEVATION



PARTIAL/ENLARGED PLAN



MATCHLINE

MATCHLINE SEE DWG. X-XX

MECHANICAL GENERAL NOTES

A. GENERAL

1. ALL WORK SHALL MEET THE ACCEPTED STANDARDS OF THE HVAC INDUSTRY, AND ALL STANDARDS REFERENCED IN THESE DRAWINGS.
2. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE OF THE TYPE AND CAPACITY INDICATED ON THE DRAWINGS.
3. ALL EQUIPMENT AND MATERIALS PROVIDED UNDER THESE SPECIFICATIONS SHALL BE LIMITED TO PRODUCTS REGULARLY PRODUCED AND RECOMMENDED FOR THE PROPOSED APPLICATION.
4. SUBSTITUTIONS AND/OR EQUAL PRODUCTS MUST BE APPROVED IN WRITING BY THE OWNER, PRIOR TO INSTALLATION.
5. GUARANTEE IN WRITING ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. GUARANTEE SHALL BE UNCONDITIONAL.
6. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, DIMENSIONS, ETC. AT THE JOB SITE.
7. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY EXISTING CONDITIONS. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE OWNER ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DESIGN DOCUMENTS.
8. ALL MATERIALS SHALL BE CONSIDERED NEW UNLESS OTHERWISE INDICATED.
9. REFER TO WRITTEN SPECIFICATIONS WHERE PROVIDED FOR ADDITIONAL REQUIREMENTS. WHERE A CONFLICT OCCURS BETWEEN THESE DRAWINGS AND THE WRITTEN SPECIFICATION. SPECIFICATIONS SHALL SUPERSEDE DRAWINGS.
10. ALL EQUIPMENT AND CONNECTION DIMENSIONS SHOWN ON PLAN ARE NOMINAL DIMENSIONS. CONTRACTOR SHALL VERIFY ALL CONNECTION REQUIREMENTS UPON ORDERING. PROVIDE TRANSITIONS AS REQUIRED.

B. CODES AND STANDARDS

1. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH [APPLICABLE MECHANICAL CODE], THE CURRENT EDITIONS OF NFPA, SMACNA STANDARDS AND LOCAL CODES AND REGULATIONS GOVERNING WORK OF THIS NATURE.
2. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE [APPLICABLE BUILDING CODE, APPLICABLE ENERGY CONSERVATION CODE], ASHRAE AND ANSI STANDARDS, AND ALL LOCAL AMENDMENTS.
3. SECURE ALL PERMITS AND APPLICATIONS AND PAY ANY AND ALL FEES AS REQUIRED BY NATIONAL AND LOCAL AUTHORITIES.

C. SUBMITTALS

1. SUBMIT MANUFACTURERS LITERATURE TO OWNERS REPRESENTATIVE PRIOR TO RELEASE FOR FABRICATION, INDICATING THAT THE EQUIPMENT MEETS REQUIREMENTS OF THESE DRAWINGS AND SPECIFICATIONS. ALL EQUIPMENT SHALL BE SUBMITTED FOR APPROVAL.
2. PROVIDE SHOP DRAWINGS TO A SCALE OF NOT LESS THAN 1/4" = 1'-0" CLEARLY INDICATING COORDINATION ITEMS INCLUDING BUT NOT LIMITED TO LIGHTING, SPRINKLERS, PLUMBING AND STRUCTURAL MEMBERS. CONTRACTOR SHALL CLEARLY INDICATE ANY DEVIATIONS FROM DESIGN DOCUMENTS. UPON REQUEST, FURNISH DETAILS OR ELEVATIONS OF SPECIFIC FITTINGS OR LOCATIONS.
3. SUBMIT "AS-BUILT" DRAWINGS UPON COMPLETION OF CONSTRUCTION. "AS-BUILT" DRAWINGS SHALL BE TO A SCALE OF NOT LESS THAN 1/4"=1'-0". CLEARLY INDICATE ALL DEVIATIONS FROM CONTRACT DOCUMENTS AND SHOP DRAWINGS.
4. MAINTAIN COPIES OF MANUFACTURER'S INSTALLATION INSTRUCTIONS ONSITE FOR BUILDING INSPECTIONS DEPARTMENT OF CODE OFFICE.
5. WHERE ITEMS ARE SPECIFIED IN SCHEDULE, SUBMITTAL DATA SHALL BE FORMATTED FOR COMPARISON TO DRAWING SCHEDULE, INCLUDING SYMBOLS. PROVIDE ALL DATA INCLUDED IN DRAWING SCHEDULE..
6. SUBMITTALS FOR HVAC EQUIPMENT SHALL INCLUDE THE PERFORMANCE AT THE SCHEDULED CONDITIONS. SUBMITTALS NOT INCLUDING SUCH INFORMATION WILL BE REJECTED.

D. COORDINATION

1. COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE FOR INTERIOR WALL OPENINGS FOR DUCT PENETRATIONS.
2. COORDINATE WITH ELECTRICAL CONTRACTOR FOR LOCATION OF WIRING AND ELECTRICAL REQUIREMENTS FOR EACH HVAC UNIT.
3. COORDINATE WITH GENERAL CONTRACTOR TO UNDERCUT DOORS AND/OR PROVIDE TRANSFER OPENINGS AS REQUIRED TO ENSURE ADEQUATE AIR RETURN TO AIR HANDLING UNITS.
4. COORDINATE WITH GENERAL CONTRACTOR TO CONCEAL ALL DUCT AND PIPING AS REQUIRED.
5. RETAIN OWNER'S ROOFING CONTRACTOR TO PATCH/SEAL ANY AND ALL PENETRATIONS TO OWNER'S REQUIREMENTS. EXACT LOCATION OF ALL ROOF MOUNTED EQUIPMENT SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE, GENERAL CONTRACTOR, AND STRUCTURAL DOCUMENTS.
6. WHERE PLENUM RETURN SYSTEMS ARE UTILIZED, CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE TRANSFER AIR OPENINGS IN FULL HEIGHT PARTITIONS WHERE REQUIRED FOR AIR RETURN TO UNIT. AIR OPENINGS SHALL BE SIZED FOR 500 FPM. PROVIDE FIRE & FIRE/SMOKE DAMPERS AS REQUIRED.
7. WHERE PLENUM RETURN SYSTEMS ARE UTILIZED, ALL MATERIALS INSTALLED IN THE PLENUM CEILING SHALL BE PLENUM RATED. ANY PVC PIPING SHALL BE FIRE WRAPPED IN ACCORDANCE WITH CODE. THIS CONTRACTOR SHALL COORDINATE WITH ALL TRADES TO ASSURE THAT ALL WIRING, PIPING, MISCELLANEOUS MATERIALS, ETC. ARE PLENUM RATED.
8. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THESE CONDITIONS DURING THE BIDDING PROCESS. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THIS ENGINEER IMMEDIATELY.

E. ACCESS

1. PROVIDE ACCESS PANELS AS REQUIRED FOR SERVICE AND OPERATION OF ALL DEVICES AND EQUIPMENT.
2. PROVIDE LOCKING TAMPERPROOF ACCESS DOORS/PANELS IN PUBLIC SPACES.
3. PROVIDE ACCESS PANEL APPROPRIATE FOR CONSTRUCTION OF WALL, FLOOR, OR CEILING.
4. ACCESS PANELS SHALL BE PRIMED FOR PAINT.

F. IDENTIFICATION

1. PROVIDE EQUIPMENT MARKERS FOR EACH PIECE OF MAJOR MECHANICAL EQUIPMENT.
2. EQUIPMENT MARKERS FOR INDOOR EQUIPMENT SHALL BE LAMINATED PLASTIC W/PERMANENT ADHESIVE. LETTER SHALL BE MINIMUM 1/2" HIGH.
3. EQUIPMENT MARKERS FOR OUTDOOR EQUIPMENT SHALL BE PAINTED, STENCILED LETTERING. LETTER SHALL BE MINIMUM 6" HIGH.
4. IDENTIFY EQUIPMENT ACCORDING TO SYMBOLS INDICATED IN EQUIPMENT SCHEDULES.

G. THERMAL INSULATION

1. THERMALLY INSULATE ALL MECHANICAL SYSTEM COMPONENTS TO AN EXTENT IN ACCORDANCE WITH THE CURRENT EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE, UNLESS MORE STRINGENT REQUIREMENTS ARE SPECIFIED IN THE DRAWINGS AND SPECIFICATIONS.
2. THERMAL INSULATION TYPE AND APPLICATION METHOD SHALL BE APPROPRIATE FOR THE LOCATION AND SERVICE OF THE ITEMS BEING INSULATED.
3. ALL REFRIGERANT PIPING SHALL BE INSULATED WITH 1" AP ARMAFLEX PREFORMED PIPE INSULATION, TAPED OR GLUED AT ALL JOINTS. PROVIDE REMOVABLE COVERS AT VALVES AND SERVICEABLE COMPONENTS. PROVIDE FIELD APPLIED PVC JACKETING AROUND ALL OUTDOOR REFRIGERANT PIPING.

H. TESTING, ADJUSTING, AND BALANCING

1. RETAIN A NEBB OR AABC CERTIFIED BALANCING CONTRACTOR TO TEST AND ADJUST SYSTEMS. SYSTEMS SHALL BE BALANCED TO PROVIDE AIR FLOW RATES INDICATED ON DRAWINGS AND SCHEDULES TO WITHIN 10%.
2. PROVIDE REPORT TO ARCHITECT FOR APPROVAL VERIFYING THE DESIGN REQUIREMENTS HAVE BEEN MET.
3. BALANCING OF AIR SYSTEMS SHALL BE PERFORMED PRIOR TO SUBSTANTIAL COMPLETION. MECHANICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE FULL ACCESS TO ALL BALANCING DEVICES AT TIME OF BALANCING.
4. BALANCING REPORT SHALL BE AVAILABLE AT SITE FOR BUILDING INSPECTOR REVIEW.
5. MECHANICAL CONTRACTOR IS RESPONSIBLE TO ADJUST AND/OR REPLACE BELTS SHIMS & PULLEYS AS REQUIRED TO ACHIEVE DESIGN ON EXISTING UNITS.

I. MOTORS

1. PROVIDE PREMIUM EFFICIENCY MOTORS ON ALL PRODUCTS WHERE AVAILABLE.

J. SCREENS AND DAMPERS

1. INSTALL SCREENS AND DAMPERS FOR AIR INTAKE AND/OR EXHAUST IN THE LOCATIONS INDICATED.
2. SIZES INDICATED ON PLAN ARE NOMINAL, MINIMUM CRITERIA. MEASURE EXACT OPENING DIMENSIONS IN THE FIELD, AND NOTE THE "AS-BUILT" DIMENSIONS ON THE SUBMITTAL FOR APPROVAL.
3. UNLESS OTHERWISE NOTED, PROVIDE AN INSECT SCREEN ACCESSORY, FACTORY OR FIELD FURNISHED, TO MATE WITH EACH EXTERIOR DAMPER UNLESS OTHERWISE INDICATED.
4. PROVIDE MESH SCREENS AT ANY OPEN-ENDED DUCT TERMINATIONS.
5. PROVIDE AN APPROPRIATE MOTOR-OPERATOR FOR ALL CONTROL DAMPERS AND/OR OPERABLE LOUVERS. CONFIRM PROJECT VOLTAGE(S) WITH ELECTRICAL CONTRACTOR.
6. UNLESS OTHERWISE NOTED, PROVIDE MANUFACTURER'S PREMIUM CORROSION-RESISTANT FINISH ON ALL CONTROL DAMPERS.
7. WITHIN THE SUBMITTAL, INDICATE TOTAL AIRFLOW, TOTAL FREE AREA, AVERAGE AIR VELOCITY, AND ACTUAL PRESSURE DROP AT DESIGN CONDITIONS, IN ADDITION TO DIMENSIONS AND CONSTRUCTION INFORMATION.

K. EXISTING EQUIPMENT AND MATERIALS

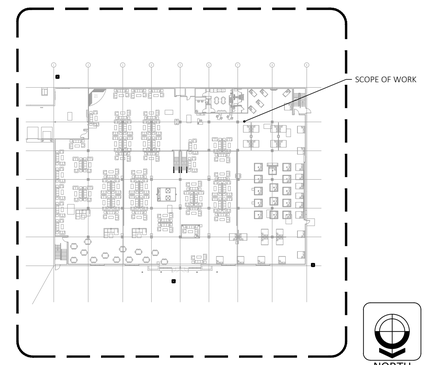
1. WHERE EXISTING EQUIPMENT IS INDICATED TO REMAIN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:
   - VERIFY ALL NAMEPLATE DATA MEETS THE DESIGN
   - INSPECT EQUIPMENT FOR DEFICIENCIES
   - FULLY SERVICE ALL COMPONENTS TO A LIKE NEW CONDITION
   - REPORT ALL DEFICIENCIES TO OWNER
2. WHERE EXISTING MATERIALS, SUCH AS DUCTWORK AND DIFFUSERS, ARE INDICATED TO REMAIN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:
   - FULLY INSPECT EXISTING INSTALLATION FOR DEFICIENT CONDITIONS
   - VERIFY THAT MATERIALS MEET SPECIFICATION FOR NEW MATERIALS
   - REPAIR MATERIALS WHERE POSSIBLE TO A LIKE NEW CONDITION
   - CLEAN MATERIALS TO BE REUSED
   - REPORT DEFICIENT CONDITIONS TO OWNER

L. ROOFING

1. CONTRACTOR IS REQUIRED TO PROVIDE ALL NECESSARY ROOFING, PATCHING, FLASHING FOR WORK UNDER THIS CONTRACT
2. CONTRACTOR IS REQUIRED TO EMPLOY LANDLORD APPROVED ROOFING CONTRACTOR TO MAINTAIN ROOF WARRANTY

MECHANICAL ABBREVIATIONS

AC	AIR CONDITIONER
AD	AIR DEVICE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ARCH	ARCHITECT
AHU	AIR HANDLING UNIT
AMPS	AMPERES
AP	ACCESS PANEL
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BB	BASEBOARD HEAT
BDD	BACKDRAFT DAMPER
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
BOS	BOTTOM OF STEEL
BOD	BASIS OF DESIGN – BOTTOM OF DUCT
BTO	BOTTOM TAKE OFF
BTU	BRITISH THERMAL UNIT
C	CHILLER
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CHWP	CHILLED WATER PUMP
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CL	CENTERLINE
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
COL	COLUMN
COND	CONDENSATE PIPING
COP	COEFFICIENT OF PERFORMANCE
CP	CONDENSATE PUMP
CRAC	COMPUTER ROOM AIR CONDITIONER
CU	CONDENSING UNIT
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DB	DRY BULB OR DECIBELS
DD	DUCT DETECTOR
DDC	DIRECT DIGITAL CONTROL
DF	DUCT FURNACE
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
E	EXISTING TO REMAIN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
E.C.	ELECTRICAL CONTRACTOR
EDB	ENTERING DRY BULB TEMPERATURE
EDH	ELECTRIC DUCT HEATER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
ER	EXISTING TO BE RELOCATED
ERL	EXISTING RELOCATED
ERU	ENERGY RECOVERY UNIT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EWB	ENTERING WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
FA	FIRE ALARM
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FLR	FLOOR
FT	FEET
FPM	FEET PER MINUTE
G	GAS
GPM	GALLON PER MINUTE
GUH	GAS UNIT HEATER
HP	HORSE POWER
HVAC	HEATING VENTILATING & AIR-CONDITIONING
HWP	HOT WATER PUMP
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HX	HEAT EXCHANGER
IN	INCHES
IN W.C.	INCHES IN WATER COLUMN
IN W.G.	INCHES OF WATER GAUGE
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB TEMPERATURE
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
M.C.	MECHANICAL CONTRACTOR
MOD	MOTOR OPERATED DAMPER
MUA	MAKE-UP AIR UNIT
N	NEW
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OAI	OUTSIDE AIR INTAKE
P	PUMP
P.C.	PLUMBING CONTRACTOR
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PTAC	PACKAGED TERMINAL AIR CONDITIONER
R	REMOVE
RA	RETURN AIR
RG	RETURN GRILLE
RL	REFRIGERANT LIQUID
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTU	ROOF TOP UNIT
RWC	RAIN WATER CONDUCTOR
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SP	STATIC PRESSURE
SQ.FT./SF	SQUARE FOOT
SS	STAINLESS STEEL
T	TEMPERATURE
TA	TRANSFER AIR
TG	TRANSFER AIR GRILLE
TOS	TOP OF STEEL
TSP	TOTAL STATIC PRESSURE
TTO	TOP TAKE OFF
TYP	TYPICAL
UC	UNDERCUT
UH	UNIT HEATER
UV	UNIT VENTILATOR
V	VOLTAGE
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VVT	VARIABLE VOLUME VARIABLE TEMPERATURE
W/	WITH
W/O	WITHOUT
WB	WET BULB
WL	WALL LOUVER
WMS	WIRE MESH SCREEN
WSHP	WATER SOURCE HEAT PUMP



SITE KEY PLAN

DESIGN DAY INFORMATION:

COOLING

OADB: 91.7 °F
OAWB: 90.4 °F
IADB: 75 °F

HEATING

OADB: 38.7 °F
IADB: 72 °F

LOCATION:

STATE: FLORIDA
COUNTY: BREVARD
CITY: MELBOURNE

DESIGN CRITERIA

DUCT TYPE	DUCT CONDITION		
	INTERIOR	EXTERIOR	
SUPPLY	R-6	R-8	
RETURN	R-6	R-8	

MINIMUM DUCT INSULATION R-VALUES

BASE BID:

1. CONTRACTOR SHALL PROVIDE ALL MATERIAL AND EQUIPMENT AS INDICATED ON THESE DRAWINGS, INCLUDING ALL ACCESSORIES REQUIRED FOR A COMPLETE AND WORKING SYSTEM.
2. VISIT SITE TO VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMISSION OF BIDS.
3. QUESTIONS SHALL BE DIRECTED THROUGH THE ARCHITECT TO THE ENGINEER. SEE CONTACT INFORMATION IN THE TITLE BLOCK.

ADD ALTERNATES:

NONE

DEDUCT ALTERNATES:

NONE

BIDDING INSTRUCTIONS

MECHANICAL:

2023 FLORIDA MECHANICAL CODE

ENERGY:

2023 FLORIDA ENERGY CONSERVATION CODE

BUILDING:

2023 FLORIDA BUILDING CODE

FIRE:

2023 FLORIDA FIRE CODE

CODE INFORMATION

CERTIFICATION:

CT

CAMBURAS & THEODORE, LTD
ARCHITECTURE | ENGINEERING | INTERIORS
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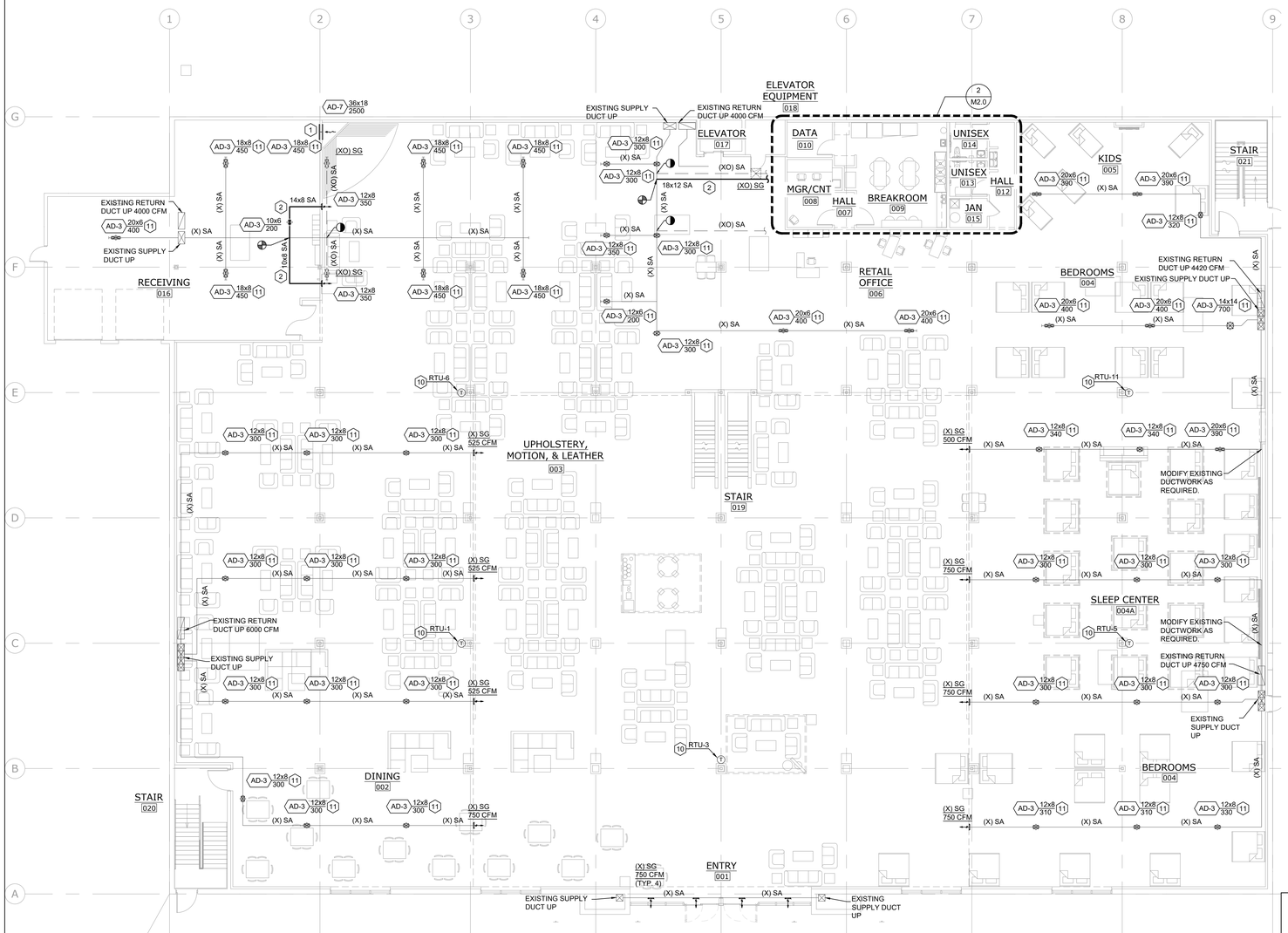
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PROJECT NUMBER 26-91020

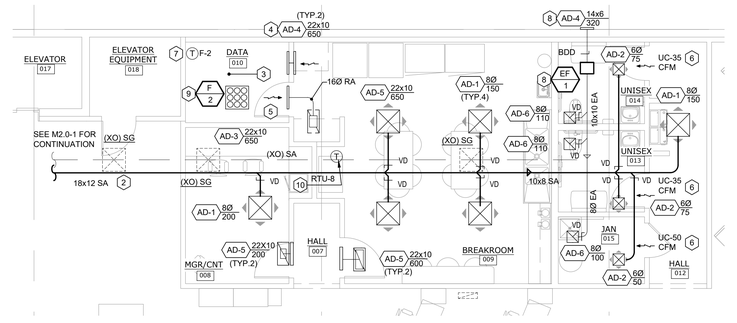
DATE 08/14/2026

SHEET TITLE: MECHANICAL SYMBOLS AND NOTES

SHEET NUMBER: M1.0



1 OVERALL 1ST FLOOR - MECHANICAL PLAN SCALE: 3/32" = 1'-0"



2 ENLARGED OFFICE AREA PLAN SCALE: 3/16" = 1'-0"

PLAN KEY NOTES

1. PROVIDE 20X18 TRANSFER DUCT BETWEEN GRILLES. MOUNT AD-7 AS HIGH AS POSSIBLE, WITH BLADES DIRECTED AWAY FROM LINE OF SIGHT.
2. INSTALL DUCT AS HIGH AS POSSIBLE
3. EMS SERVER LOCATION RE: ELECTRICAL PLANS. ELECTRICAL CONTRACTOR TO PROVIDE SENSORS, CABLING, WIRING, ETC AS NECESSARY TO UPGRADE CONTROLS TO BDF SPECIFICATIONS. COORDINATE ALL EQUIPMENT REQUIREMENTS WITH NEW EMS SPECIFICATIONS
4. PROVIDE AD-7 TRANSFER GRILLES ON EACH SIDE OF WALL, BOTTOM OF GRILLE 12" AFF.
5. PROVIDE AD-3 SUPPLY REGISTER AS HIGH AS POSSIBLE BELOW ROOF JOIST. EXHAUST AIR TRANSFER TO RELIEVE PRESSURE IN THE PLENUM ABOVE IT ROOM CREATED BY F-2.
6. UNDERCUT DOORS 1" FOR AIR TRANSFER, COORDINATE WITH GENERAL CONTRACTOR
7. CONTRACTOR TO COORDINATE FINAL SENSOR LOCATION PER ELECTRICAL/EMS PLANS.
8. INSTALL FAN AS HIGH AS POSSIBLE ABOVE CEILING. GRILL TO BE INSTALLED INLINE WITH HEIGHT OF EXHAUST FAN DUCT. EXHAUST GRILLE TO BE MOUNTED AT MINIMUM OF 11'-0" AFF.
9. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL F-2 CONTROLLER. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER TO THE CONTROLLER AND WIRING BETWEEN THE FAN AND THE CONTROLLER. COORDINATE INSTALLATION WITH THE ELECTRICAL CONTRACTOR AS REQUIRED.
10. PROVIDE TEMPORARY THERMOSTAT FOR INITIAL UNIT OPERATION. FINAL THERMOSTATS AND LOCATION AS INDICATED ON ELECTRICAL/EMS PLANS
11. EXISTING ROUND DIFFUSERS TO BE DEMOLISHED AND REPLACED WITH SCHEDULED AD-3 DIFFUSERS

GENERAL IDENTIFICATION NOTES

1. PROVIDE EQUIPMENT MARKERS FOR EACH PIECE OF MAJOR MECHANICAL EQUIPMENT.
2. EQUIPMENT MARKERS FOR INDOOR EQUIPMENT SHALL BE LAMINATED PLASTIC W/PERMANENT ADHESIVE. LETTER SHALL BE MINIMUM 1/2" HIGH.
3. EQUIPMENT MARKERS FOR OUTDOOR EQUIPMENT SHALL BE PAINTED, STENCILED LETTERING. LETTER SHALL BE MINIMUM 6" HIGH.
4. IDENTIFY EQUIPMENT ACCORDING TO SYMBOLS INDICATED IN EQUIPMENT SCHEDULES.
5. ALL DIFFUSERS ON EXISTING DUCTWORK SHALL BE REPLACED WITH NEW DIFFUSERS. SEE SCHEDULES FOR MORE DETAILS.

CERTIFICATION:

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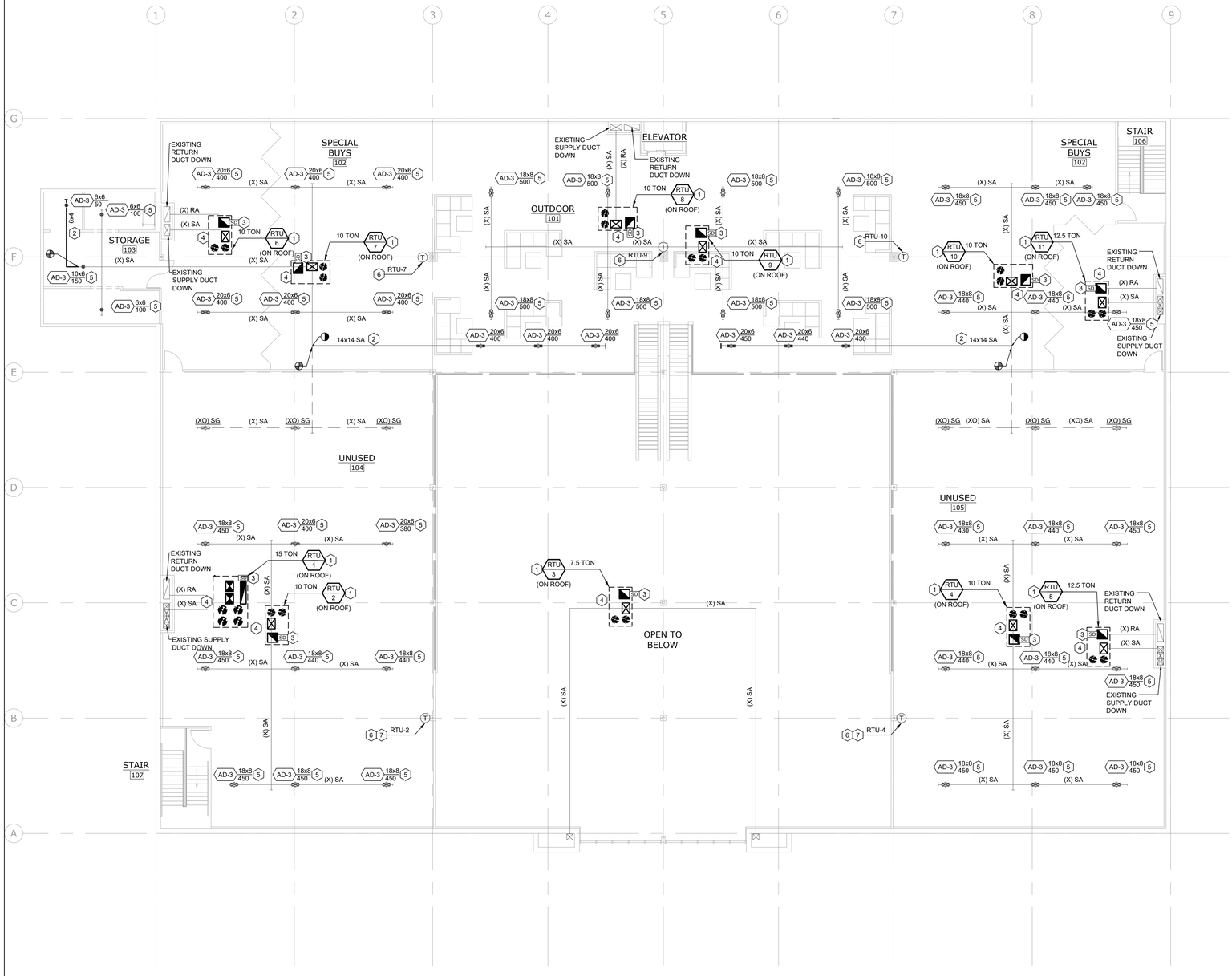
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PROJECT NUMBER 26-91020

DATE 08/14/2026

SHEET TITLE: MECHANICAL PLANS

SHEET NUMBER: M2.0



NORTH

1 OVERALL 2ND FLOOR - MECHANICAL PLAN

SCALE: 3/32" = 1'-0"

PLAN KEY NOTES

1. NEW ROOFTOP UNIT OVER EXISTING CURB VIA CURB-ADAPTER. GC TO COORDINATE WITH BDF VENDOR AND FIELD VERIFY FEASIBILITY. VERIFY EXISTING CURB IS IN GOOD WORKING ORDER. NOTIFY BDF CONSTRUCTION MANAGER IMMEDIATELY OF ANY DEFICIENCIES.
2. INSTALL DUCT AS HIGH AS POSSIBLE
3. VERIFY DUCT SMOKE DETECTOR(S) ARE PROPERLY INSTALLED, FUNCTIONAL, AND TIED INTO BUILDING FIRE ALARM SYSTEM
4. CONTRACTOR TO FABRICATE DUCTWORK TO CONNECT DUCT DROPS FROM NEW ROOF TOP UNITS TO EXISTING DUCTWORK. CONTRACTOR TO VERIFY IN FIELD EXISTING DUCTWORK IN ORDER TO MAKE CONNECTIONS.
5. EXISTING ROUND DIFFUSERS TO BE DEMOLISHED AND REPLACED WITH SCHEDULED AD-3 DIFFUSERS
6. PROVIDE TEMPORARY THERMOSTAT FOR INITIAL UNIT OPERATION. FINAL THERMOSTATS AND LOCATION AS INDICATED ON ELECTRICAL/EMS PLANS
7. CONTRACTOR TO SET TEMPERATURE TO 80F IN SUMMER AND 70F IN WINTER

GENERAL IDENTIFICATION NOTES

1. PROVIDE EQUIPMENT MARKERS FOR EACH PIECE OF MAJOR MECHANICAL EQUIPMENT.
2. EQUIPMENT MARKERS FOR INDOOR EQUIPMENT SHALL BE LAMINATED PLASTIC W/PERMANENT ADHESIVE. LETTER SHALL BE MINIMUM 1/2" HIGH.
3. EQUIPMENT MARKERS FOR OUTDOOR EQUIPMENT SHALL BE PAINTED, STENCILED LETTERING. LETTER SHALL BE MINIMUM 6" HIGH.
4. IDENTIFY EQUIPMENT ACCORDING TO SYMBOLS INDICATED IN EQUIPMENT SCHEDULES.
5. ALL DIFFUSERS ON EXISTING DUCTWORK SHALL BE REPLACED WITH NEW DIFFUSERS. SEE SCHEDULES FOR MORE DETAILS.

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PROJECT NUMBER 26-91020

DATE 08/14/2026

SHEET TITLE: MECHANICAL PLANS

SHEET NUMBER: M2.1

ROOFTOP UNIT SCHEDULE

MELBOURNE, FL

DESCRIPTION			REFRIGERATION DATA						HEATING DATA		FAN DATA			EFFICIENCY			ELECTRICAL DATA					MISC.	
TAG	MANUF.	MODEL	NOMINAL TONS	TOTAL MBH	SENSIBLE MBH	REFRIG.	NO. OF COMP's	AMOUNT (LB-OZ)	INPUT (MBH)	OUTPUT (MBH)	NOMINAL CFM	O.A. CFM	ESP (IN)	EER	SEER	IEER	V / PH	BHP	HP	MCA	MOCP	WEIGHT (LBS)	REMARKS
RTU-1	LENNOX	LHT180H5M	15	187.4	138.5	R-454B	2	42-8	-	100.1	6,000	1,530	0.80	-	-	-	460/3	2.85	5	41	50	2,453	1,3
RTU-2	LENNOX	LHT120H5E	10	118.5	88.5	R-454B	2	21-5	-	66.7	4,000	1,200	0.80	-	-	-	460/3	2.05	3.75	25	30	1,161	1,3
RTU-3	LENNOX	LHT092H5E	7.5	92.4	67.3	R-454B	2	22-4	-	52.2	3,000	750	0.80	-	-	-	460/3	1.28	3.75	22	25	1,159	1,3
RTU-4	LENNOX	LHT120H5E	10	118.5	88.5	R-454B	2	21-5	-	66.7	4,000	1,200	0.80	-	-	-	460/3	2.05	3.75	25	30	1,161	1,3
RTU-5	LENNOX	LHT152H5E	12.5	134.5	99.8	R-454B	2	27-12	-	81.4	4,750	1,185	0.80	-	-	-	460/3	3.40	3.75	31	35	1,262	1,3
RTU-6	LENNOX	LHT120H5E	10	118.5	88.5	R-454B	2	21-5	-	66.7	4,000	1,000	0.80	-	-	-	460/3	2.05	3.75	25	30	1,161	1,3
RTU-7	LENNOX	LHT120H5E	10	118.5	88.5	R-454B	2	21-5	-	66.7	4,000	1,010	0.80	-	-	-	460/3	2.05	3.75	25	30	1,161	1,3
RTU-8	LENNOX	LHT120H5E	10	118.5	88.5	R-454B	2	21-5	-	66.7	4,000	1,000	0.80	-	-	-	460/3	2.05	3.75	25	30	1,161	1,3
RTU-9	LENNOX	LHT120H5E	10	118.5	88.5	R-454B	2	21-5	-	66.7	4,000	1,200	0.80	-	-	-	460/3	2.05	3.75	25	30	1,161	1,3
RTU-10	LENNOX	LHT120H5E	10	118.5	88.5	R-454B	2	21-5	-	66.7	4,000	1,200	0.80	-	-	-	460/3	2.05	3.75	25	30	1,161	1,3
RTU-11	LENNOX	LHT152H5E	12.5	133.5	96.3	R-454B	2	27-12	-	81.4	4,420	1,105	0.80	-	-	-	460/3	2.71	3.75	31	35	1,262	1,3
												12,380											

REMARKS:

1. NEW UNITS PROVIDED UNITS WITH THE FOLLOWING ACCESSORIES:
   - DUAL-ENTHALPY ECONOMIZER W/ BAROMETRIC RELIEF
   - SUPPLY FAN VFD (SINGLE ZONE VAV OPERATION AS DEFINED BY ASHRAE 90.1)
   - NON-FUSED DISCONNECT; UN-POWERED GFCI CONVENIENCE RECEPTACLE
   - DRAIN PAN OVERFLOW SWITCH
   - CRANKCASE HEATER
   - HINGED ACCESS DOORS
   - BACnet MS/TP COMMUNICATION CARD
   - 2" MERV 8 FILTERS
   - CONTROLS AS INDICATED ON ELECTRICAL DRAWINGS
   - DEMAND CONTROL VENTILATION. PROVIDE WITH WALL MOUNT CO2 SENSOR - TELAIRE MODEL T8100-HD-LN
2. PROVIDE NEW 14" ROOF CURB.
3. PROVIDE CURB ADAPTOR.

FAN SCHEDULE

MELBOURNE, FL

DESCRIPTION				FAN DATA			MOTOR / ELEC DATA			MISCELLANEOUS			
TAG	MANUFACTURER	MODEL NO.	AREA SERVED	CFM	ESP (IN)	RPM	HP	WATTS	V / PH	FAN TYPE	SONES	WEIGHT (LBS)	REMARKS
EF-1	GREENHECK	CSP-A390	RESTROOM/JANITOR	330	0.5	1,350	.07	-	120 / 1	DIRECT	5.1	23	2, 3
F-2	COOL COMPONENTS	VS-CGVS	DATA	650	N/A	2,200	1/4	-	120 / 1	DIRECT	-	75	4

REMARKS:

1. PROVIDE 13.5" GALVANIZED ROOF CURB; INCLUDING WOOD NAILER, GASKET, DAMPER TRAY, INSULATION
2. PROVIDE WITH FAN SPEED CONTROLLER, DISCONNECT SWITCH
3. PROVIDE WITH BACKDRAFT DAMPER
4. PROVIDE WITH TC-ACV LOGIC CONTROLLER, FACTORY MOUNTED AND WIRED FAN SPEED CONTROLLER SAFETY DISCONNECT SWITCH.

GRILLE, REGISTER & DIFFUSER SCHEDULE

MELBOURNE, FL

TAG	MANUF.	MODEL	TYPE	FACE SIZE	NECK SIZE	MATERIAL	COLOR	THROW PATTERN	OPTIONS & ACCESSORIES
AD-1	TITUS	TDC-A4	SUPPLY DIFFUSER	24 x 24	SEE PLANS	STEEL	#26 WHITE	4-WAY	1, 2, 3, 5
AD-2	TITUS	TDC-A4	SUPPLY DIFFUSER	12 x 12	SEE PLANS	STEEL	#26 WHITE	4-WAY	2, 3, 5
AD-3	TITUS	301FL	SUPPLY REGISTER	SEE PLANS	SEE PLANS	STEEL	#26 WHITE	DOUBLE DEFLECTION	1, 2, 3
AD-4	TITUS	350RL	RETURN / EXHAUST GRILLE	NECK SIZE +1-3/4"	SEE PLANS	STEEL	#26 WHITE	-	
AD-5	TITUS	PAR	RETURN / EXHAUST DIFFUSER	24 x 12	SEE PLANS	STEEL	#26 WHITE	-	3
AD-6	TITUS	PAR	RETURN / EXHAUST DIFFUSER	12x12 / 24x24	SEE PLANS	STEEL	#26 WHITE	-	3

NOTES:

1. COORDINATE ALL FINAL BORDER STYLES WITH ARCHITECTURAL/INTERIOR DESIGN DRAWINGS. PROVIDE WITH RAPID MOUNT PLASTER FRAME FOR INSTALLATIONS IN HARD CEILING
2. SEE PLANS FOR CFM VALUES
3. CONTRACTOR SHALL REFERENCE MANUFACTURERS SPECIFICATIONS FOR EXACT MODULE SIZE OF GRILLES. GRILLE MODULE SIZES SHALL BE BASED UPON NECK SIZES INDICATED ON PLANS

OPTIONS & ACCESSORIES

1. PROVIDE WITH OPPOSED BLADE DAMPER
2. PROVIDE WITH THROW REDUCING VANES
3. PROVIDE WITH SQUARE-TO-ROUND TRANSITION WHERE REQUIRED
4. PROVIDE WITH DUCT CAP ACCESSORY; INTERNAL AIR DEFLECTOR; HANGING SUPPORTS; OPPOSED BLADE DAMPERS
5. PROVIDE WITH TITUS AG-95 OPPOSED BLADE DAMPER WITH LEVER ACCESS FROM THE FACE SIDE.

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SHEET TITLE
MECHANICAL SCHEDULES

SHEET NUMBER
M3.0

MECHANICAL VENTILATION SCHEDULE

MELBOURNE, FL

ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	ZONE AREA Az	OCCUPANT DENSITY #/1000 Pz	OCCUPANT DENSITY TOTAL	PEOPLE OUTDOOR AIR RATE Rp	AREA OUTDOOR AIR RATE Ra	ZONE EFFECTIVENESS Ez	BREATHING OUTDOOR AIRFLOW (REQ'D) Vbz=RpPz+RaAz	ACTUAL OUTDOOR AIRFLOW PROVIDED	EXHAUST REQUIREMENTS CFM / SQ FT	EXHAUST REQUIREMENTS CFM TOTAL	ACTUAL EXHAUST (CFM)	EXHAUST EQUIPMENT	SUPPLY EQUIPMENT
001	SALES FLOOR	SALES	20,398	15 /	306	7.5	0.12	0.80	5,929	6,000	-	-	-	-	RTU-1,3,5,6,8,11
007	HALL	CORRIDOR	30	/	0	0	0.06	0.80	3	5	-	-	-	-	RTU-8
008	MGR/CNT	OFFICE	122	5 /	1	5.0	0.06	0.80	13	15	-	-	-	-	RTU-8
009	BREAKROOM	BREAK ROOMS	428	25 /	11	5.0	0.06	0.80	99	100	-	-	-	-	RTU-8
010	DATA	UNOCCUPIED	63	-	-	-	-	-	-	-	-	-	-	-	F-2
012	HALL	CORRIDOR	105	/	0	0	0.06	0.80	8	10	-	-	-	-	RTU-8
013	UNISEX	TOILET ROOMS - PUBLIC	54	/	0	0	0.00	0.80	0	45	-	-	110	EF-1	RTU-8
014	UNISEX	TOILET ROOMS - PUBLIC	54	/	0	0	0.00	0.80	0	45	-	-	110	EF-1	RTU-8
015	JANITOR	UNOCCUPIED	44	/	0	0	0.00	0.80	0	0	1.00	45	100	EF-1	RTU-8
016	RECEIVING	SHIPPING AND RECEIVING	1,966	2 /	4	10	0.12	0.80	345	350	-	-	-	-	RTU-6
018	ELEVATOR EQUIPMENT	UNOCCUPIED	59	-	-	-	-	-	-	-	-	-	-	-	-
101	SALES FLOOR	SALES	11,255	15 /	169	7.5	0.12	0.80	3,271	3,300	-	-	-	-	RTU-7,9,10
103	STORAGE	STORAGE	724	/	0	0	0.12	0.80	109	110	-	-	-	-	RTU-7
104	UNUSED	UNOCCUPIED	5,551	-	-	-	-	-	-	1,200	-	-	-	-	RTU-2
105	UNUSED	UNOCCUPIED	5,839	-	-	-	-	-	-	1,200	-	-	-	-	RTU-4
		TOTALS:	46,692 SQ. FT.						9,777	12,380		45 CFM	320 CFM		

A. SCOPE OF WORK

1. PROVIDE ALL MATERIALS AND EQUIPMENT MEETING THE DESIGN INDICATED ON THESE DRAWINGS AND SPECIFICATIONS.
2. WORK TO BE PERFORMED UNDER THE MECHANICAL SPECIFICATIONS AND DRAWINGS CONSISTS OF FURNISHING ALL LABOR AND MATERIAL FOR THE INDICATED SPACE.
3. ALL WORK IN THESE DRAWINGS SHALL BE CONSIDERED NEW UNLESS OTHERWISE NOTED. WHETHER WORK IS EXPLICITLY SHOWN, IMPLIED, REQUIRED BY LOCAL AUTHORITIES, OR INDUSTRY STANDARDS SHALL NOT RELEASE THE CONTRACTOR FROM PROVIDING COMPLETE AND OPERATING HVAC SYSTEMS.

B. EXHAUST FANS

1. CONTRACTOR SHALL PROVIDE AND INSTALL NEW EXHAUST FANS AS INDICATED ON DRAWINGS AND SCHEDULES EXCEPT WHERE NOTED AS EXISTING TO REMAIN.
2. FOR ROOF MOUNTED EXHAUST FANS, CONTRACTOR SHALL PROVIDE ROOF CURB AND ACCESSORIES REQUIRED TO EXHAUST THROUGH ROOF.
3. COORDINATE EXHAUST DISCHARGE LOCATION WITH ALL VENTS AND INTAKES. INSTALL EXHAUST DISCHARGE A MINIMUM OF 10' FROM AIR INTAKES AND BUILDING OPENINGS SUBJECT TO NEGATIVE PRESSURE.
4. LOCATE ALL ROOF MOUNTED EQUIPMENT NO CLOSER THAN 10'-0" FROM ROOF EDGE OR OPEN SIDE OF WALKING SURFACE.
5. PROVIDE BACK DRAFT DAMPERS AND INSECT SCREENS WITH ALL EXHAUST FANS.

C. CONTROLS

1. CONTRACTOR SHALL SUPPLY AND INSTALL ALL CONTROL WIRING AND DEVICES AS REQUIRED.
2. PROVIDE MANUFACTURER'S RECOMMENDED AUTO-CHANGEOVER 7-DAY/24-HOUR, 4-EVENT PROGRAMMABLE THERMOSTAT FOR EACH UNIT. LOCATE MASTER THERMOSTATS IN AREA DIRECTED BY OWNERS REPRESENTATIVE. PROVIDE REMOTE TEMPERATURE SENSORS AS INDICATED ON PLANS.
3. PROGRAM ALL THERMOSTATS AS FOLLOWS:

OCCUPIED HOURS OF OPERATION:
A. HOURS WILL BE FROM ONE(1) HOUR PRIOR TO ASSOCIATES ARRIVING AT THE STORE TO 1/2 HOUR PRIOR TO THE STORE CLOSING.
B. HEATING SET POINT 68F
C. COOLING SET POINT 72°F

UNOCCUPIED HOURS OF OPERATION:
A. HOURS WILL BE FORM 1/2 HOUR PRIOR TO STORE CLOSING TO ONE(1) HOUR PRIOR TO ASSOCIATES ARRIVING
B. HEATING SET POINT 63°F
C. COOLING SET POINT 77°F

4. PROVIDE LOCAL UNIT DDC CONTROLS AT CENTRAL AND TERMINAL EQUIPMENT CAPABLE OF COORDINATING AND CONTROLLING ALL VARIABLES IN EQUIPMENT.

D. UNIT HEATERS

1. PROVIDE AND INSTALL UNITS INDICATED ON DRAWINGS AND SCHEDULES. UNITS SHALL INCLUDE HANGERS AND OTHER APPURTENANCES NECESSARY FOR COMPLETE AND PROPER INSTALLATION.
2. UNIT HEATER CONSTRUCTION & INSTALLATION SHALL BE IN COMPLIANCE WITH CURRENT EDITION OF INTERNATIONAL FUEL GAS CODE AND REFERENCED STANDARDS.
3. PROVIDE VENTING AND COMBUSTION INTAKE PIPING FOR ALL GAS-FIRED UNIT HEATERS. INSTALLATION SHALL BE PER MANUFACTURER'S REQUIREMENTS. VENT/INTAKE PENETRATIONS SHALL BE IN AN APPROVED LOCATION.
4. PROVIDE CONTROLS (REMOTE AS NECESSARY) FOR SPACE TEMPERATURE CONTROL MOUNTED NO HIGHER THAN 60" A.F.F. CONTROLS SHALL HAVE ABILITY TO STAGE EQUIPMENT EQUAL TO EQUIPMENT CAPABILITY.
5. COORDINATE FINAL CONNECTION WITH ELECTRICAL CONTRACTOR.

E. HVAC - ROOFTOP UNITS

1. PROVIDE AND INSTALL NEW PACKAGED ROOFTOP UNITS AS INDICATED ON DRAWINGS AND SCHEDULES. UNITS SHALL INCLUDE SUPPORTS AND OTHER APPURTENANCES REQUIRED FOR A COMPLETE AND WORKING SYSTEM.
2. INSTALLATION OF ROOFTOP EQUIPMENT SHALL BE IN STRICT COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIC CONDITIONS OF THE INSTALLATION.
3. MAINTAIN START-UP RECORDS, OPERATION AND MAINTENANCE MANUALS ONSITE FOR INSPECTIONS AND TURN OVER EQUIPMENT DOCUMENTATION TO OWNER AT END OF PROJECT.
4. PROVIDE MANUFACTURER'S WARRANTY ON UNITS INCLUDING A MINIMUM 5 YEAR COMPRESSOR WARRANTY.
5. ACCEPTABLE MANUFACTURERS OF PACKAGED ROOFTOP EQUIPMENT: PROVIDE EQUIPMENT THAT MEETS THE REQUIREMENTS OF THE SCHEDULES BY ONE OF THE FOLLOWING:
   - CARRIER
   - LENNOX
   - McQUAY
   - TRANE

   IF CONTRACTOR PROPOSES EQUIPMENT NOT SPECIFICALLY LISTED ABOVE, MANUFACTURER SHALL BE EXPLICITLY IDENTIFIED IN BID AND QUALIFIED AS A NON-APPROVED EQUIPMENT MANUFACTURER.
6. PROVIDE CONDENSATE PIPING FROM ROOFTOP UNITS TO AN APPROVED LOCATION. CHECK WITH LOCAL AUTHORITY FOR ACCEPTANCE OF DRAINING TO ROOF SURFACE OR ROOF DRAINS.
7. PROVIDE VIBRATION ISOLATION INTEGRAL TO OR SEPARATE FROM THE CURB IN LOCATIONS WHERE UNIT MAY TRANSMIT SOUND THROUGH THE STRUCTURE TO OCCUPIED SPACES.
8. LOCATE ALL ROOF MOUNTED EQUIPMENT NO CLOSER THAN 10'-0" FROM ROOF EDGE OR OPEN SIDE OF WALKING SURFACE. PROVIDE A MINIMUM 10'-0" CLEARANCE FROM UNIT INTAKE TO ANY EXHAUST OUTLET.
9. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR ALL OPENINGS FOR UNIT CURBS OR DUCTWORK PENETRATIONS. COORDINATE EXACT UNIT LOCATION WITH ARCHITECTURAL AND STRUCTURAL DOCUMENTS, AS WELL AS FIELD CONDITIONS.
10. PROVIDE 3 SETS OF PLEATED DISPOSABLE FILTERS. ONE SET TO BE USED UNTIL COMPLETION OF CONSTRUCTION PHASE. INSTALL ONE SET AT COMPLETION OF CONSTRUCTION PHASE AND DELIVER ONE SET TO OWNER AND LABEL EACH SET OF FILTERS TO DENOTE THEIR RESPECTIVE HVAC UNITS. FILTERS SHALL BE FARR 30/30 PREMIUM AIR FILTER OR EQUAL.
11. NEW ROOFTOP UNITS SHALL NOT BE USED FOR TEMPORARY HEAT OR AIR CONDITIONING DURING ANY PHASE OF CONSTRUCTION. OPENINGS AT THE UNIT OR IN THE DUCTWORK SYSTEM SHALL BE SEALED DURING CONSTRUCTION ACTIVITIES OTHER THAN START-UP AND TESTING.
12. THIS CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR TO ASSURE THAT THE UNIT DISCONNECT SWITCH IS NOT INSTALLED OVER THE UNIT'S NAMEPLATE INFORMATION.
13. ROOFTOP UNIT CONDENSER COILS SHALL BE PROTECTED DURING CONSTRUCTION TO MINIMIZE CONSTRUCTION DUST AND ANY OTHER AIRBORNE CONSTRUCTION PARTICLES.
14. DAMAGE TO CONDENSER COILS DURING INSTALLATION AND CONSTRUCTION ACTIVITIES SHALL FULLY BE REPAIRED OR REPLACED, PRIOR TO ACCEPTANCE OF THE WORK.

F. HVAC - MINI SPLIT SYSTEM UNITS

1. PROVIDE AND INSTALL UNITS INDICATED ON DRAWINGS AND SCHEDULES. UNITS SHALL INCLUDE SUPPORTS AND OTHER APPURTENANCES REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
2. PROVIDE MANUFACTURERS WARRANTY ON UNITS INCLUDING A MINIMUM 5 YEAR COMPRESSOR WARRANTY.
3. ACCEPTABLE MANUFACTURERS OF AIR HANDLING EQUIPMENT: PROVIDE EQUIPMENT THAT MEETS THE REQUIREMENTS OF THE SCHEDULES BY ONE OF THE FOLLOWING:
   - DAIKIN
   - LG INDUSTRIES
   - SAMSUNG
   - MITSUBISHI
   - TOSHIBA
   - FUJITSU

   IF CONTRACTOR PROPOSES EQUIPMENT NOT SPECIFICALLY LISTED ABOVE, MANUFACTURER SHALL BE EXPLICITLY IDENTIFIED IN BID AND QUALIFIED AS A NON-APPROVED EQUIPMENT MANUFACTURER.
4. PROVIDE AND INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND IN SUCH A WAY AS TO BE INCONSPICUOUS. ALL REFRIGERANT PIPING IS TO BE FULLY INSULATED.
5. CONFIRM WITH MANUFACTURER PRIOR TO ORDERING THAT LENGTH OF REFRIGERANT PIPING DOES NOT EXCEED THEIR STANDARD PIPING RECOMMENDATIONS. WHERE STANDARD LENGTHS ARE EXCEEDED, FOLLOW MANUFACTURER'S RECOMMENDATION FOR PIPE AND COMPRESSOR SIZING.
6. ALL REFRIGERANT PIPING SHALL BE CONCEALED IN WALLS, CEILINGS, OR CHASES INDICATED ON DRAWINGS UNLESS EXPRESSLY APPROVED BY OWNER.
7. EXPOSED REFRIGERANT LINES SHALL BE PROTECTED FROM PHYSICAL DAMAGE.
8. NEW MINI SPLIT SYSTEM HVAC EQUIPMENT SHALL NOT BE USED FOR TEMPORARY HEAT OR AIR CONDITIONING DURING ANY PHASE OF CONSTRUCTION. OPENINGS AT THE AHU OR IN THE DUCTWORK SYSTEM SHALL BE SEALED AT ALL TIMES DURING CONSTRUCTION OTHER THAN START-UP AND TESTING.

AIR HANDLING UNITS

1. SUPPORT AIR HANDLING UNITS FROM STRUCTURE PER MANUFACTURER'S REQUIREMENTS. PROVIDE VIBRATION ISOLATING ELEMENTS IN SUPPORT FRAMING OR HANGERS TO COMPLETELY ISOLATE EQUIPMENT FROM RIGID CONNECTIONS TO STRUCTURE.
2. CONDENSATE PIPING MAY BE PVC (MINIMUM ¾") EXCEPT IN RETURN PLENUM CEILINGS WHERE PIPING SHALL BE COPPER TUBING OR SHALL BE WRAPPED IN FIRE RATED COVERING IN ACCORDANCE WITH CODE.
3. PROVIDE CONDENSATE PIPING FROM AIR HANDLING UNITS TO AN APPROVED, INCONSPICUOUS LOCATION NOT SUBJECT TO HUMAN TRAFFIC OF ANY KIND. PROVIDE CONDENSATE PUMPS FOR AIR HANDLING UNITS AS REQUIRED.
4. PROVIDE 3 SETS OF PLEATED DISPOSABLE FILTERS. ONE SET TO BE USED UNTIL COMPLETION OF CONSTRUCTION PHASE. INSTALL ONE SET AT COMPLETION OF CONSTRUCTION PHASE AND DELIVER ONE SET TO OWNER AND LABEL EACH SET OF FILTERS TO DENOTE THEIR RESPECTIVE HVAC UNITS. FILTERS SHALL BE SIMILAR TO FARR 30/30 PREMIUM AIR FILTER OR EQUAL.

CONDENSING UNITS

1. INSTALL CONDENSING UNITS PER MANUFACTURER'S INSTRUCTIONS.
2. PROVIDE MANUFACTURED EQUIPMENT CURBS FOR CONDENSING UNITS INSTALLED ON THE ROOF. MEET OR EXCEED MANUFACTURER'S REQUIREMENTS FOR ANCHORING OF CONDENSERS.
3. PROVIDE CLEARANCE FOR CONDENSERS IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS TO ENSURE ADEQUATE CONDENSER AIRFLOW TO UNIT AND SERVICEABILITY.

G. INSULATION

1. CONCEALED SUPPLY AIR DUCT SHALL BE WRAPPED WITH MINIMUM R-VALUE DUCT WRAP WITH FRK EXTERIOR VAPOR BARRIER IN ACCORDANCE WITH THE DUCT INSULATION TABLE ON M-1.0. CONTRACTOR SHALL MAINTAIN VAPOR BARRIER ON ALL SUPPLY DUCTWORK.
2. ALL JOINTS AND CONNECTIONS IN LINED DUCTWORK SHALL NOT INTERRUPT THE COVERAGE OF INSULATION. PROVIDE EXTERIOR INSULATION AT JOINTS AS REQUIRED TO PROVIDE A CONTINUOUSLY INSULATED JOINT.
3. REFRIGERANT PIPING SHALL BE FULLY INSULATED WITH HT/ARMAFLEX INSULATION. INSULATION SHALL BE CONTINUOUS THROUGH PENETRATIONS AND AT CONNECTIONS TO EQUIPMENT.

H. DUCTWORK

1. ALL DUCTWORK SHOWN ON DRAWINGS IS NEW UNLESS OTHERWISE INDICATED.
2. DIMENSION SHOWN ON DRAWINGS REPRESENT NET INSIDE DIMENSIONS. DUCTWORK SIZE SHALL BE INCREASED TO ACCOMMODATE INSTALLATION OF LINER WHEN APPLICABLE.
3. COMPLY WITH SMACNA LOW PRESSURE DUCT STANDARDS AND THE CURRENT ASHRAE EQUIPMENT VOLUME.
4. ALL STEEL SHEET AND STRIP USED FOR DUCT AND CONNECTORS SHALL BE G-90 COATED GALVANIZED STEEL, MINIMUM 26 GAGE, OF LOCK FORMING GRADE CONFORMING WITH ASTM A653 AND A924 STANDARDS.
5. ALL NEW EXPOSED SUPPLY AIR DUCT SHALL BE RECTANGULAR OR SPIRAL WOUND DUCTWORK. EXPOSED DUCTWORK SHALL BE PAINTED AS REQUIRED BY THE ARCHITECT AND/OR OWNER. COORDINATE COLOR SELECTION WITH OWNER.
6. RETURN AIR DUCTWORK SHALL BE RECTANGULAR OR SQUARE DUCTWORK. PROVIDE 90 DEG. BEND AT EQUIPMENT AND DIFFUSERS FOR SOUND REDUCTION.
7. CONTRACTOR SHALL SUPPORT DUCTWORK FROM STRUCTURE ABOVE. SUPPORTS SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA REQUIREMENTS. PROVIDE SUPPORTS AT EACH VERTICAL DUCT LENGTH AT DROPS OR CHANGES IN ELEVATION.
8. ALL TRANSITIONS IN SIZE SHALL BE FLAT ON TOP UNLESS OTHERWISE INDICATED. TRANSITIONS SHALL HAVE A MAXIMUM 15° SLOPE.
9. ALL BRANCH DUCTS IN SUPPLY DUCTWORK SHALL HAVE VOLUME DAMPERS INSTALLED IN AN ACCESSIBLE LOCATION. WHERE VOLUME DAMPER ADJUSTMENT WILL BE INACCESSIBLE, PROVIDE REMOTE CABLE ADJUSTMENT (YOUNG REGULATOR #270-896 OR EQUAL).
10. ALL DUCT JOINTS SHALL BE SEALED IN ACCORDANCE WITH SMACNA STANDARDS. MATERIALS USED FOR JOINT SEALING SHALL BE IN COMPLIANCE WITH NFPA 90 STANDARDS FOR SMOKE AND FLAME DEVELOPMENT.
11. FLEXIBLE DUCTWORK SHALL BE LIMITED TO FLEXIBLE CONNECTORS AT HVAC UNITS AND DIFFUSER CONNECTIONS IN CONCEALED CEILINGS. FLEXIBLE DUCTWORK SHALL NOT BE USED IN EXPOSED CEILINGS.
12. BENDS SHALL BE MADE WITH NOT LESS THAN 1 DUCT DIAMETER CENTERLINE RADIUS. DO NOT KINK OR COLLAPSE DUCT.
13. CONTRACTOR SHALL PROVIDE AND INSTALL FLEXIBLE DUCT CONNECTIONS IN SUPPLY AND RETURN AIR DUCTWORK AT AIR HANDLERS. FLEXIBLE DUCT CONNECTORS SHALL BE LOADED VINYL VIBRATION ELIMINATING TYPE.
14. FLEXIBLE BRANCH DUCTS SHALL BE CLASS 1 (UL 181) WITH FIBER GLASS INSULATION AND REINFORCED OUTER PROTECTIVE COVER/VAPOR BARRIER. FLEX DUCT SHALL MEET NFPA 90A WITH FLAME SPREAD UNDER 25, SMOKE DEVELOPED UNDER 50, AND SHALL BE RATED FOR 2" W.C. PRESSURE AND 0 TO 250 DEGREE TEMPERATURE. USE OF "FLEX" DUCTWORK SHALL BE LIMITED TO THE SUPPLY AIR SYSTEM AND IN NO LOCATION SHALL BE MORE THAN 5 LINEAR FEET.

I. DIFFUSERS & GRILLES

1. DIFFUSERS/GRILLES SHALL BE PROVIDED AS INDICATED ON DRAWINGS AND SCHEDULES. PROVIDE MOUNTING STYLES APPROPRIATE FOR CEILING OR WALL SYSTEM. PROVIDE SAMPLES TO OWNER FOR APPROVAL OF AESTHETICS PRIOR TO ACCEPTANCE.
2. DIFFUSERS MOUNTED IN SUSPENDED CEILINGS WITH FACE SIZES OTHER THAN NOMINAL 24"x24" SHALL BE SUPPORTED FROM STRUCTURE ABOVE.
3. DIFFUSERS MOUNTED IN HARD CEILINGS SHALL BE FLANGE TYPE MOUNTING AND SHALL NOT HAVE 24"x24" PANELS.
4. PROVIDE VOLUME DAMPER IN TAKE-OFF AT BRANCH DUCT FOR EACH DIFFUSER/GRILLE IN AN ACCESSIBLE LOCATION.

J. NATURAL GAS PIPING

1. NATURAL GAS PIPING INCLUDING ISOLATION VALVES SHALL BE PROVIDED BY PLUMBING CONTRACTOR. THIS CONTRACTOR SHALL PROVIDE THE FINAL CONNECTION TO UNIT. SEE PLUMBING SPECIFICATIONS FOR REQUIREMENTS.
2. THIS CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR FOR FINAL CONNECTION TO GAS FIRED EQUIPMENT.
3. NATURAL GAS TERMINATIONS TO GAS FIRED EQUIPMENT SHALL BE PER MANUFACTURER'S REQUIREMENTS. PROVIDE REGULATORS AND VENTING OF REGULATORS AS REQUIRED.

K. DUCT SMOKE DETECTORS

1. FIRE ALARM CONTRACTOR TO PROVIDE RETURN AND SUPPLY AIR DUCT SMOKE DETECTOR.
2. SMOKE DETECTORS AT AIR HANDLING EQUIPMENT SHALL AUTOMATICALLY SHUT DOWN UNITS FOR UNITS GREATER THAN 2,000 CFM. SMOKE DETECTOR TO BE FURNISHED BY FIRE ALARM CONTRACTOR. SMOKE DETECTORS TO BE IN SUPPLY AIR FROM UNIT AND IN RETURN AIR TO UNIT AHEAD OF OUTSIDE AIR INTAKE OR RELIEF OPENINGS.
3. COORDINATE WITH FIRE ALARM CONTRACTOR FOR EXACT LOCATION OF DUCT SMOKE DETECTORS.
4. MECHANICAL CONTRACTOR IS RESPONSIBLE TO INSTALL THE SMOKES DETECTOR. MECHANICAL CONTRACTOR IS TO PROVIDE ACCESS TO FIRE ALARM CONTRACTOR TO WIRE DUCT SMOKE DETECTORS AT EACH PIECE OF EQUIPMENT MEETING THE ABOVE DESIGNATIONS. PROVIDE PERMANENT ACCESS DOORS IN DUCTWORK LARGE ENOUGH TO PROVIDE ACCESS FOR SERVICE AND INSPECTION OF DETECTOR.
5. ACCESS DOOR CONSTRUCTION AND TYPE SHALL BE APPROPRIATE FOR DUCT PRESSURE AND VELOCITY CLASSIFICATION, AND OF TYPE AND CONSTRUCTION AS IDENTIFIED IN THE CURRENT EDITION OF SMACNA'S HVAC DUCT CONSTRUCTION STANDARDS FOR METAL AND FLEXIBLE DUCTWORK.

MECHANICAL SPECIFICATIONS

CERTIFICATION:

CT

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REVISION DATES

NO.	DATE	TYPE

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TYPE	DATE
PERMIT/CONSTRUCTION SET	08/14/26

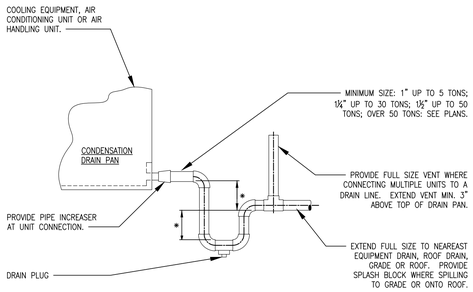
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CHECKED BY	AW

PROJECT NUMBER
26-91020

DATE
08/14/2026

SHEET TITLE
MECHANICAL SPECIFICATIONS AND SCHEDULE

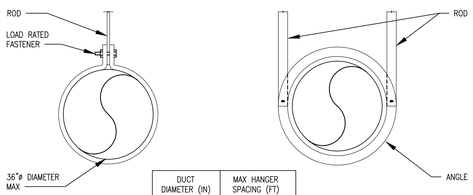
SHEET NUMBER
M3.1



NOTES:

* – DEPTH SHALL BE 1.5 TIMES THE SYSTEM'S NEGATIVE STATIC PRESSURE OR 4" MINIMUM.

9 CONDENSATE DRAIN DETAIL SCALE: NONE



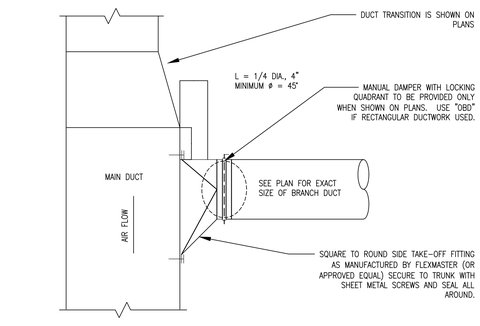
DUCT DIAMETER (IN)	MAX HANGER SPACING (FT)
<10	12
18	12
24	12
36	12
50	12
60	12
84	12

* BASED ON ASHRAE

NOTE:

1. ANGLE & ROD SIZES AS RECOMMENDED BY SMACNA.

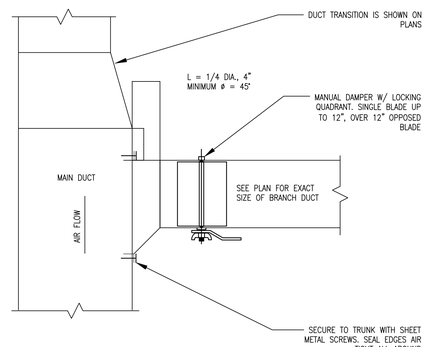
5 ROUND DUCT HANGERS SCALE: NONE



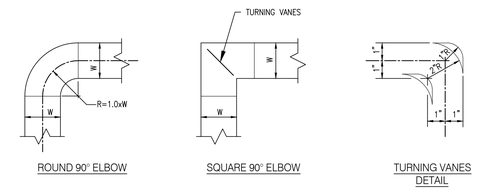
NOTE:

1. FOR ROUND TO ROUND DUCTWORK TAKE-OFF, CONICAL OR BOOT TYPE CONNECTION SHALL BE USED.

6 BRANCH DUCT TAKE-OFF (RECT-RND) SCALE: NONE



7 BRANCH DUCT TAKE-OFF (RECT-RECT) SCALE: NONE



NOTE:

1. USE THIS DESIGN WHERE SQUARE 90° ELBOW ARE SHOWN ON DRAWINGS OR IF SPACE DOES NOT PERMIT ROUND 90° ELBOWS.

8 TURNING VANE DETAILS SCALE: NONE

HALF OF DUCT PERIMETER (IN)	RODS (SEE TRAPEZE DETAIL ABOVE) DIAMETER (IN) MAXIMUM HANGER SPACING (FT)			
	10	8	5	4
<30	0.135	0.135	0.106	0.106
72	3/8	1/4	1/4	1/4
96	3/8	3/8	3/8	1/4
120	1/2	3/8	3/8	1/4
168	1/2	1/2	3/8	3/8
192	1/2	1/2	3/8	3/8

* BASED ON ASHRAE

NOTE:

1. ANGLE & ROD SIZES AS RECOMMENDED BY SMACNA.

1 SQUARE DUCT HANGERS SCALE: NONE

NOTES:

1. SIDE CONNECTION SHOWN. CONNECTION AT BOTTOM OF DUCT SIMILAR.
2. FLEX DUCT SIZE SHALL MATCH NECK SIZE

2 CEILING DIFFUSER CONNECTION SCALE: NONE

NOTE:

1. SEE SPECIFICATIONS FOR FLEX DUCT TYPE.

3 FLEX DUCT AND CLAMP INSTALLATION SCALE: NONE

NOTE:

1. DIMENSIONS 'X' AND 'Y' ARE EQUAL TO (BRANCH CFM ÷ MAIN CFM) x W

NOTE:

1. DIMENSIONS 'X' AND 'Y' ARE EQUAL TO (BRANCH CFM ÷ MAIN CFM) x W

4 DUCT TEE CONNECTIONS SCALE: NONE

CERTIFICATION:

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DRAWN BY AP
CHECKED BY AW
PROJECT NUMBER 26-91020
DATE 08/14/2026
SHEET TITLE MECHANICAL DETAILS
SHEET NUMBER M4.0

PLUMBING SYMBOLS

- CW — COLD WATER SUPPLY PIPING
- HW — HOT WATER SUPPLY PIPING (140°F)
- TW — TEMPERED WATER (110°)
- HWR — HOT WATER RECIRCULATION (140°)
- TWR — TEMPERED WATER RECIRCULATION (110°F)
- GAS — NATURAL GAS PIPING
- RAIN WATER CONDUCTORS
- SANITARY PIPING
- GW — GREASE WASTE PIPING
- V — VENT PIPING

- XX" – PIPE SIZE
- PIPE TURNING UP
- PIPE TURNING DOWN
- CONNECTION TOP
- CONNECTION BOTTOM
- TEE, OUTLET DOWN
- TEE, OUTLET UP
- 90° PIPING BEND
- PIPING TEE
- X" LF — INCH OF SLOPE PER LINEAR FOOT
- VALVE IN DROP
- METER
- BALL VALVE
- PLUG VALVE
- HWR BALANCING SYSTEM
- THERMOSTATIC MIXING VALVE
- GAS COCK VALVE
- PRESSURE REDUCING VALVE
- UNION
- BALANCING VALVE
- CHECK VALVE
- HOT WATER RECIRCULATING PUMP

- XXX / XX — [XXX] – EQUIPMENT TYPE [XX] – EQUIPMENT DESIGNATION [SEE SCHEDULES FOR EQUIPMENT SPECIFICATIONS]
- XX | X — [XXX] – FIXTURE TYPE [XX] – FIXTURE DESIGNATION
- XXX / XX — [XXX] – PLUMBING SYSTEM [XX] – STACK NUMBER
- # — DRAWING KEYED NOTE
- POINT OF NEW CONNECTION TO EXISTING
- TERMINATION OF POINT OF DEMOLITION
- CONTINUATION MARK (RECTANGULAR)
- CONTINUATION MARK (ROUND)
- X — REVISION CLOUD W/DELTA

DRAWING TITLE

PLAN NO. — 1 — DRAWING — DRAWING TITLE — P2.0 — SCALE: XXXX — DRAWING NO. — DRAWING SCALE

SECTION/ELEVATION

SECTION/ ELEVATION NO. — 1 / P2.0 — 1 / P2.0 — DRAWING NO.

PARTIAL/ENLARGED PLAN

PLAN NO. — 1 / P2.0 — DRAWING NO.

MATCHLINE

MATCHLINE SEE DWG. X-XX

PLUMBING GENERAL NOTES

A. GENERAL

1. ALL EQUIPMENT SHALL BE INSTALLED IN A WORKMANLIKE MANNER, MEETING THE ACCEPTED STANDARDS OF THE PLUMBING INDUSTRY. WORK SHALL BE PERFORMED BY FIRMS AND CRAFTSMAN REGULARLY ENGAGING IN WORK OF THIS NATURE.
2. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE OF THE TYPE AND CAPACITIES INDICATED ON THE DRAWINGS.
3. ALL EQUIPMENT AND MATERIALS PROVIDED UNDER THESE SPECIFICATIONS SHALL BE LIMITED TO PRODUCTS REGULARLY PRODUCED AND RECOMMENDED FOR THE PROPOSED SERVICE.
4. SUBSTITUTIONS AND/OR EQUAL PRODUCTS MUST BE APPROVED IN WRITING BY THE OWNER, PRIOR TO PURCHASE & INSTALLATION.
5. GUARANTEE IN WRITING ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. GUARANTEE SHALL BE UNCONDITIONAL.
6. DO NOT SCALE THESE DRAWINGS FOR EXACT DIMENSIONS. THESE DRAWINGS ARE DIAGRAMMATIC, CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, TEES, ELBOWS, TRAPS, STOPS, ETC. FOR A COMPLETE COORDINATED INSTALLATION.
7. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY EXISTING CONDITIONS. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE OWNER ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DESIGN DOCUMENTS.
8. CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL EXISTING MATERIALS MADE OBSOLETE BY THIS WORK.
9. ALL MATERIALS SHALL BE CONSIDERED NEW UNLESS OTHERWISE INDICATED.

B. CODES & STANDARDS

1. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH [APPLICABLE PLUMBING CODE], THE CURRENT EDITION OF LOCAL CODES AND REGULATIONS GOVERNING WORK OF THIS NATURE.
2. CONTRACTOR SHALL SECURE ALL PERMITS AND APPLICATIONS AND PAY ANY AND ALL FEES AS REQUIRED.
3. ALL MATERIALS / FIXTURES IN CONTACT WITH POTABLE WATER SUPPLIES SHALL COMPLY WITH NSF 61 STANDARDS & NSF 372 TEST STANDARDS FOR DRINKING WATER SYSTEM COMPONENTS.
4. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS OF LOCAL AUTHORITIES.
5. ALL AUTHORITIES HAVING JURISDICTION SHALL BE NOTIFIED AT LEAST THREE WORKING DAYS PRIOR TO COMMENCEMENT OF WORK.
6. COMPLY WITH LANDLORD REQUIREMENTS FOR WORK CONTRACTORS, CONSTRUCTION AND ACCESS.
7. WHERE PLENUM RETURNS ARE INCORPORATED, THIS CONTRACTOR MUST USE ONLY PLENUM RATED MATERIALS. THESE PRODUCTS MUST MEET OR EXCEED THE ASTM E84 TESTING REQUIREMENTS FOR A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS. THESE PRODUCTS MUST ALSO CONFORM TO THE REQUIREMENTS OF NFPA 90A & NFPA 90B.

C. SUBMITTALS

1. SUBMIT MANUFACTURERS LITERATURE TO OWNERS REPRESENTATIVE INDICATING THAT THE EQUIPMENT MEETS REQUIREMENTS OF THESE DRAWINGS AND SPECIFICATIONS. SUBMITTALS SHALL INCLUDE BUT NOT BE LIMITED TO FIXTURES, PIPING MATERIALS, WATER HEATERS, INSULATION, PLUMBING SYSTEMS, BACKFLOW PREVENTION DEVICES.
2. PROVIDE SHOP DRAWINGS TO A SCALE OF NOT LESS THAN 1/4" = 1'–0" CLEARLY INDICATING COORDINATION ITEMS INCLUDING BUT NOT LIMITED TO LIGHTING, SPRINKLERS PLUMBING AND STRUCTURAL MEMBERS. CONTRACTOR SHALL CLEARLY INDICATE ANY DEVIATIONS FROM DESIGN DOCUMENTS. UPON REQUEST OF ARCHITECT, FURNISH DETAILS OR ELEVATIONS OF SPECIFIC FITTINGS OR LOCATIONS.
3. SUBMIT "AS–BUILT" DRAWINGS UPON COMPLETION OF CONSTRUCTION. AS–BUILT DRAWINGS SHALL BE TO A SCALE OF NOT LESS THAN 1/4"=1'–0". CLEARLY INDICATE ALL DEVIATIONS FROM CONTRACT DOCUMENTS AND SHOP DRAWINGS.

D. COORDINATION

1. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE FOR INTERIOR WALL OPENINGS AND PENETRATIONS.
2. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO "BOX" ALL SUPPLY, WASTE, AND VENT PIPING, AS REQUIRED.
3. CONTACT LOCAL WATER UTILITY, GAS UTILITY, AND SEWER AUTHORITY TO VERIFY INTERCONNECTION AND METERING REQUIREMENTS PRIOR TO START OF WORK.
4. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL UNDERSLAB PLUMBING PIPING WITH ALL STRUCTURAL FOUNDATIONS AND WITH SITE UTILITY INVERT ELEVATIONS.
5. THE P.C. IS RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS DURING THE BIDDING PROCESS. BEFORE THE SUBMISSION OF FINAL BID ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THIS ENGINEER IMMEDIATELY.

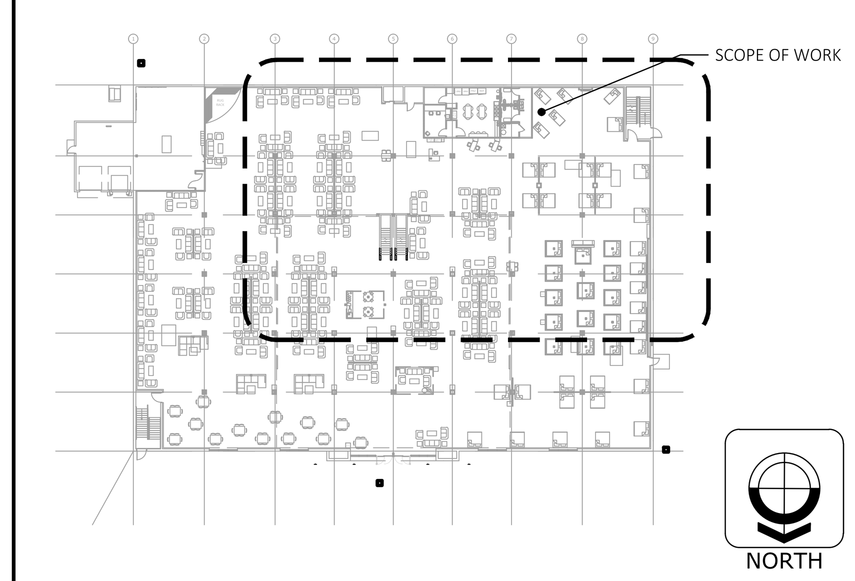
E. PERMITS AND SERVICE APPLICATIONS

1. THIS CONTRACTOR SHALL APPLY FOR ALL REQUIRED PERMITS.
2. CONFIRM UTILITY SERVICE INFORMATION WITH LOCAL UTILITY REPRESENTATIVE PRIOR TO START OF WORK.
3. THIS CONTRACTOR SHALL APPLY FOR SERVICE FOR THE FOLLOWING UTILITIES:
   – NATURAL GAS
4. THIS CONTRACTOR SHALL COORDINATE WITH LANDLORD FOR SERVICE FOR THE FOLLOWING UTILITIES:
   – WATER
   – SEWER

F. IDENTIFICATION

1. CONTRACTOR SHALL PROVIDE LABELING FOR PLUMBING MATERIALS INCLUDING THE FOLLOWING:
   – WATER SUPPLY PIPING (HOT & COLD)
   – NATURAL GAS PIPING
   – SANITARY PIPING
2. SUPPLY PIPING SHALL BE LABELED WITH PRECOILED PLASTIC FORMED (SNAP ON) SEMI–RIGID MARKERS TO ATTACH TO EXTERIOR OF INSULATION OR PIPE WHERE UNINSULATED WITHOUT ADHESIVE.
3. WATER SUPPLY LABELS SHALL INCLUDE FLOW ARROWS AND LETTERING, COLORS, AND SPACING AS INDICATED IN ANSI A13.1.
4. VALVE TAGS SHALL BE COLOR CODED LAMINATED PLASTIC WITH CHAIN ATTACHMENT.
5. IDENTIFY EQUIPMENT INCLUDING WATER HEATERS ACCORDING TO SYMBOLS INDICATED IN EQUIPMENT SCHEDULES.
6. LETTER SHALL BE MINIMUM 1/2" HIGH.
7. EQUIPMENT SIGNS SHALL HAVE BLACK OR WHITE LETTERING TO CONTRAST TAG OR BACKGROUND MATERIAL AS APPROPRIATE.
8. PROVIDE ACCESS LABELS ON ACCESS PANELS AND TEE BAR OF CEILING WHERE CONCEALED ITEMS ARE LOCATED INCLUDING THE FOLLOWING: a. WATER HEATERS
9. ACCESS LABELS SHALL BE SELF ADHESIVE LAMINATED THERMAL TRANSFER TYPE (SIMILAR TO BROTHER P–TOUCH) WITH CONTRAST LETTERING OVER CLEAR BACKGROUND. LETTERING SHALL BE 3/8" HIGH.
10. CONTRACTOR SHALL PROVIDE LABELING FOR EXISTING PIPING WITHIN SPACE.
11. CONTRACTOR SHALL LABEL PIPING ACCORDING TO REQUIREMENTS INDICATED IN ANSI A13.1.
12. PROVIDE STAMPED, RAISED LETTER CLEAN OUT COVER FOR ALL SANITARY PIPING. LETTERING SHALL READ "SAN." LETTERING SHALL BE MINIMUM 1" HIGH.

SITE KEY PLAN



PLUMBING SPECIFICATIONS

A. SCOPE OF WORK

1. PROVIDE ALL MATERIALS AND EQUIPMENT INDICATED ON THESE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS AND LABOR TO SATISFY A COMPLETE AND WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
2. WORK TO BE PERFORMED UNDER THE PLUMBING SPECIFICATIONS AND DRAWINGS CONSISTS OF FURNISHING ALL LABOR AND MATERIAL FOR THE INDICATED SPACE, INCLUDING BUT NOT LIMITED TO:
   - DOMESTIC COLD WATER PIPING
   - DOMESTIC HOT WATER PIPING
   - SANITARY SEWER
   - SANITARY VENTS
   - NATURAL GAS PIPING
   - PLUMBING FIXTURES
   - WATER HEATERS

B. PIPING GENERAL REQUIREMENTS

1. ALL PIPING SHALL BE CONCEALED IN WALLS, ABOVE CEILING, AND BEHIND FIXED FURNISHINGS UNLESS OTHERWISE INDICATED. ALL PIPING EXPOSED TO VIEW SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO THE UNDERSIDE OF THE STRUCTURE.
2. EXPOSED PIPING IN FINISHED AREAS SHALL BE CHROME PLATED WITH CHROME PLATED ESCUTCHEON AT PIPE ENTRY TO FINISHED AREA.
3. SLEEVE OR CORE–DRILL FLOOR SLABS, WALLS, ETC. AS REQUIRED FOR PIPING AND WATERPROOF/FIRE–STOP OPENING AROUND PIPE. VERIFY LOCATION OF STRUCTURAL BEAMS, JOISTS, ETC. BEFORE DRILLING.
4. ALL OPENINGS IN DRAINAGE AND/OR VENT SYSTEMS AS A RESULT OF INSTALLATION ROUGH–IN SHALL BE PROTECTED WITH A TEST PLUG THAT IS SECURELY LOCKED IN PLACE UNTIL FINAL FINISHED CONNECTIONS ARE INSTALLED.
5. WHEREVER FOUNDATION WALLS, OUTSIDE WALLS, ROOF, ETC. ARE PENETRATED FOR INSTALLATION OF SYSTEMS, THEY SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND SEALED WEATHER TIGHT. WORK SHALL BE PERFORMED BY CRAFTSMEN SKILLED IN THEIR RESPECTIVE TRADES.
6. ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES, SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION.
7. INSTALL PIPING AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK INCLUDING DUCTS AND ELECTRICAL CONDUIT.
8. AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING, PROVIDE AN ISOLATING DIELECTRIC UNION.
9. PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEMS FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED.
10. ACCESS PANELS SHALL BE PROVIDED WHERE CONTROL DEVICES, VALVES, ETC. ARE CONCEALED. WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY–IN SUSPENDED CEILINGS, ACCESS PANELS ARE NOT REQUIRED. ACCESS DOORS SHALL BE 12" X 12" MINIMUM CAPABLE OF OPENING 180 DEGREES. DOORS SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR & TURNED OVER TO THE GENERAL CONTRACTOR FOR INSTALLATION. ACCESS DOORS SHALL MEET THE APPROVAL OF THE ARCHITECT.

C. WATER SUPPLY PIPING

1. PIPING ROUTED IN EXTERIOR WALLS SHALL BE ROUTED ON WINTER WARM SIDE OF BUILDING WALL INSULATION.
2. ABOVE GROUND HOT AND COLD WATER PIPING SHALL BE TYPE L COPPER TUBING WITH WROUGHT COPPER FITTING AND SWEAT CONNECTIONS. VALVES SHALL BE TWO PIECE, FULL PORT, BRONZE BALL VALVES WITH STAINLESS STEEL TRIM, NIBCO S–585–70–66 OR APPROVED EQUAL.
3. WITH OWNER AND AHJ APPROVAL, ABOVE GROUND HOT AND COLD WATER PIPING 1/2" THRU 1 1/2" SHALL BE ASTM F876, F877 CROSS–LINKED POLYETHYLENE (PEX) TUBING & ASTM F1960 COLD EXPANSION FITTINGS, MANIFOLDS & VALVES. PIPING 2" & ABOVE & ANY SIZE EXPOSED TO VIEW, SHALL BE CHLORINATED POLYVINYL CHLORIDE (CPVC) SCHEDULE 40 IPS PRESSURE PIPE, TYPE IV, GRADE 1, ASTM D–1784 WITH CPVC MOLDED FITTINGS PER ASTM D–1784, TYPE IV, GRADE 1; SOLVENT CEMENTS PER ASTM D–2564 & LISTED BY NSF FOR POTABLE USE. VALVES TO BE BALL TYPE, CPVC PER ASTM D–1784, TRUE UNION.
4. BELOW GRADE HOT & COLD WATER PIPING SHALL BE TYPE K COPPER WITH WROUGHT COPPER FITTINGS AND SWEAT CONNECTIONS.
5. LEAD–FREE (Pb CONTENT </= 0.2%%%) SOLDER AND FLUX SHALL BE USED THROUGHOUT THE PLUMBING SYSTEMS.
6. INSULATE ALL HOT AND COLD WATER PIPING BOTH VERTICALLY AND HORIZONTALLY AT CEILING, IN CEILING AND CONCEALED IN WALLS. PROVIDE 1" PRE FORMED FIBERGLASS ASJ–VB, FLAME SPREAD 25, SMOKE DEVELOPED 50, ASTM C–547.
7. PROVIDE COPPER TUBE WITH PISTON TYPE WATER HAMMER ARRESTORS ON ALL QUICK CLOSING VALVES & MULTIPLE PLUMBING FIXTURE BRANCH LINES, LOCATED & SIZED IN ACCORDANCE WITH ASSE 1010 OR PDI–WH 201.
8. PROVIDE BACKFLOW PREVENTION DEVICES ON ALL DOMESTIC WATER LINES WHERE BACKSIPHONAGE AND/OR BACKPRESSURE CAN CAUSE CONTAMINATED WATER TO ENTER THE POTABLE WATER SYSTEM, SPECIFIC TYPES OF PREVENTERS ARE TO MEET THE REQUIREMENTS OF THE AHJ.
9. CONTRACTOR TO CONDUCT WATER SERVICE PRESSURE TEST. WHERE WATER PRESSURE WITHIN A BUILDING EXCEEDS 80 PSI STATIC, AN APPROVED WATER PRESSURE REDUCING VALVE CONFORMING TO ASSE 1003 WITH STRAINER SHALL BE INSTALLED TO REDUCE THE PRESSURE IN THE BUILDING WATER DISTRIBUTION PIPING TO 80 PSI STATIC OR LESS.
10. TEST FOR LEAKS AND DEFECTS IN NEW PIPING AND PARTS OF EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED. TEST PIPING TO STATIC WATER PRESSURE OF 50 PSIG (345 kPa) ABOVE OPERATING PRESSURE, WITHOUT EXCEEDING PRESSURE RATING OF PIPING SYSTEM MATERIALS. ISOLATE TEST SOURCE AND ALLOW TO STAND FOR FOUR HOURS. WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP IS DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED.
11. THE DOMESTIC WATER SYSTEM SHALL BE FLUSHED AND PRESSURE TESTED. THE DOMESTIC WATER SYSTEM SHALL BE PURIFIED.
12. PIPING SHALL BE PROTECTED AGAINST EXTERNAL CORROSION WHEN PENETRATING A CORROSIVE SUBSTANCE SUCH AS CONCRETE, CINDER, ETC. UTILIZE MEANS APPROPRIATE FOR SPECIFIC SITUATION AND APPROVED BY CODE OFFICIAL.
13. PROVIDE 3 ELBOW SWING JOINTS FOR ALL HOT WATER BRANCH CONNECTIONS TO THE MAIN.
14. SITE DOMESTIC WATER SUPPLY IS EXISTING. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY FOR UPGRADES IN METERING & SERVICE REQUIRED TO ACCOMMODATE INCREASED LOAD.

D. NATURAL GAS PIPING

1. PROVIDE NATURAL GAS PIPING TO GAS FIRED EQUIPMENT INDICATED ON THE PLUMBING & MECHANICAL DRAWINGS.
2. GAS PIPING SHALL BE INSTALLED IN ACCORDANCE WITH PLUMBING CODES, MECHANICAL CODES, & INTERNATIONAL FUEL GAS CODE.
3. ALL GAS PIPING TO BE SCHEDULE 40 METALLIC PIPE, UNLESS OTHERWISE NOTED ON DRAWINGS.
4. CONFIRM HVAC UNIT LOCATIONS AND CAPACITIES, WITH MECHANICAL CONTRACTOR BEFORE PROCEEDING WITH WORK.
5. COORDINATE FINAL CONNECTIONS TO MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.
6. NATURAL GAS PIPING IS EXISTING TO REMAIN, THIS CONTRACTOR SHALL EXAMINE EXISTING GAS PIPING FOR LEAKS, INCLUDING SOAP TESTS AND METER STOP TESTS AS APPROPRIATE REPORT ANY PROBLEMS TO OWNER.
7. VALVES AND REGULATORS REQUIRING VENTING SHALL HAVE INDEPENDENT VENTS TO THE OUTSIDE OF THE BUILDING OR SHALL HAVE LISTED & APPROVED VENT–LIMITING DEVICES INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
8. THIS CONTRACTOR TO PROVIDE ALL REGULATORS SHOWN ON DRAWINGS. CONTRACTOR TO SELECT REGULATORS BASED ON FINAL AVAILABLE PRESSURE FROM UTILITY & OPERATING PRESSURES OF FINALLY SELECTED GAS–FIRED EQUIPMENT.
9. PIPING SHALL BE PROTECTED AGAINST PHYSICAL DAMAGE. SHIELD PLATES SHALL BE A MINIMUM 1/16" THICK STEEL.
10. EXPOSED PIPING SHALL BE PROTECTED FROM CORROSION IN A MANNER SATISFACTORY TO THE CODE OFFICIAL.
11. ALL GAS PIPING SHALL BE TESTED & INSPECTED FOR LEAKS IN ACCORDANCE WITH THE NATIONAL FUEL AS CODE, CHAPTER 8.

E. SANITARY WASTE & VENT

1. ALL SANITARY WASTE & VENT LINES SHALL BE OF CAST IRON SOIL PIPE AND FITTINGS AND SHALL CONFORM TO THE REQUIREMENTS OF CISPI STANDARD 301, ASTM A–888 OR ASTM A–74. PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE AND BE LISTED BY NSF INTERNATIONAL.
2. SANITARY DRAINAGE PIPING ABOVE GRADE SHALL BE HUBLESS CAST–IRON PIPE, FITTINGS, AND COUPLINGS CONFORMING TO ASTM C1277 & C1540 AND PIPING BELOW GRADE SHALL BE SERVICE–WEIGHT HUB AND SPIGOT TYPE CAST–IRON WITH NEOPRENE GASKET JOINTS CONFORMING TO ASTM C–564 & C1563
3. WITH OWNER AND AHJ APPROVAL, SANITARY DRAINAGE AND VENT PIPING ABOVE GRADE SHALL BE SCHEDULE 40 PVC WITH DWV SOCKET FITTINGS & SOLVENT CEMENTED JOINTS. IF PLENUM RETURNS ARE INCORPORATED THIS CONTRACTOR MUST VERIFY THAT ALL MATERIALS WITHIN THE PLENUM ARE PLENUM RATED, SEE PLUMBING GENERAL NOTES SECTION B NOTE #7 FOR MORE INFORMATION.
4. WITH OWNER AND AHJ APPROVAL, SANITARY DRAINAGE AND VENT PIPING BELOW GRADE SHALL BE SCHEDULE 40 PVC CONFORMING TO ASTM D2665 WITH DMV SOCKET FITTINGS & CEMENTED JOINTS CONFORMING TO ASTM D3311. USE SCHEDULE 80 OR GREATER WHERE VEHICLE TRAFFIC MAY CROSS OVER PIPING.
5. THE DRAINAGE SYSTEMS SHALL BE FLUSHED AND PRESSURE TESTED.
6. TEST SANITARY WASTE AND VENT PIPING BY FILLING WITH WATER FOR A HEAD OF NO LESS THAN 10'–0" ABOVE HIGHEST PERMANENT FITTING FOR A MINIMUM OF 15 MINUTES IN THE PRESENCE OF CODE OFFICIAL.
7. ALL VENT AND BRANCH PIPING SHALL BE GRADED AND CONNECTED SUCH THAT ALL DRAINAGE IS ROUTED BACK TO DRAIN PIPE BY GRAVITY.
8. CLEANOUT PLUGS SHALL BE BRASS OR PLASTIC.
9. HORIZONTAL DRAINAGE PIPING SHALL BE INSTALLED IN UNIFORM ALIGNMENT AT UNIFORM SLOPES.
10. EXISTING WASTE LINES DOWNSTREAM SHALL BE "SNAKED", CLEANED, SCOPED, LOCATED & DOCUMENTED PRIOR TO START OF WORK.
11. SITE SANITARY IS EXISTING. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY FOR UPGRADES IN SERVICE REQUIRED TO ACCOMMODATE INCREASED LOAD.

F. PLUMBING FIXTURES

1. FURNISH AND INSTALL PLUMBING FIXTURES AS INDICATED ON THESE DRAWINGS.
2. PROVIDE ACCESSORIES INCLUDING SUPPORTS, CARRIERS, VALVES, HANDLES, SEATS, ESCUTCHEONS ETC AS REQUIRED FOR A COMPLETE INSTALLATION.
3. COMPLY WITH MANUFACTURERS REQUIREMENTS FOR INSTALLATION OF FIXTURES.
4. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL FIXTURES AND PLUMBING TO FIXTURES. PROVIDE MOUNTING HARDWARE AND SUPPORTS AS REQUIRED.
5. COMPLY WITH INTERNATIONAL ENERGY CODE STANDARD FOR PLUMBING FIXTURE WATER CONSUMPTION INCLUDED BUT NOT LIMITED TO THE FOLLOWING:
   a. PUBLIC LAVATORY (MAX FLOW 0.5 GPM @ 60 PSI)
   b. WATER CLOSET (1.6 GALLONS PER FLUSH)
   c. URINAL (1.0 GALLONS PER FLUSH)
6. ALL PLUMBING FIXTURES SHALL BE PROVIDED WITH TRAPS UNLESS FIXTURE INTERNALLY TRAPPED.
7. ALL PLUMBING FIXTURE TRAPS SHALL BE THE REMOVABLE TYPE. EXPOSED TRAPS SHALL BE SUPPLIED WITH TRAP, VALVE & GUARDS WHICH ARE ADA COMPLIANT.

G. WATER HEATERS

1. FURNISH AND INSTALL WATER HEATERS AS INDICATED.
2. PROVIDE ASME TEMPERATURE & PRESSURE RELIEF VALVE PIPED TO DRAIN PAN. PIPE DRAIN PAN TO MOP RECEPTOR BELOW.
3. FURNISH AND INSTALL VACUUM BREAKERS WHERE WATER HEATER IS SITUATED ABOVE FIXTURES & WHERE REQUIRED BY CODE.
4. WATER HEATER INSTALLATIONS WITH STORAGE (INTEGRAL OR REMOTE) OF 120 GALLONS OR MORE, AND/OR HEAT INPUT OF 200 MBH OR MORE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASME BOILER AND PRESSURE VESSEL CODE AND SHALL BEAR THE ASME LABEL. MEETING THIS DESCRIPTION ALSO CONSTITUTES SPECIAL REQUIREMENTS FOR INSPECTION. CONTACT AHJ FOR SPECIFIC REQUIREMENTS.
5. COORDINATE WITH ELECTRICAL CONTRACTOR FOR FINAL WIRING.
6. WATER HEATER THERMOSTAT TO BE SET TO MAINTAIN STORAGE TEMPERATURE OF 140°.

H. ROOF PENETRATIONS

1. COORDINATE ROOF PENETRATIONS AND FLASHING WITH GENERAL CONTRACTOR.
2. ALL ROOF PENETRATIONS SHALL BE CONCEALED FROM VIEW. ROOF PENETRATIONS SHALL BE INSTALLED IN FLAT ROOF AREAS UNLESS APPROVED IN WRITING BY ARCHITECT.
3. ALL ROOF PENETRATION AND FLASHING WORK TO BE PERFORMED BY LANDLORD'S APPROVED ROOFING CONTRACTOR. THIS WORK MUST NOT VOID ANY EXISTING ROOFING WARRANTY. COORDINATE WITH GENERAL CONTRACTOR AND LANDLORD PRIOR TO PERFORMING THIS WORK.

I. SUPPORTS

1. PROVIDE SUPPORT MATERIALS IN ACCORDANCE WITH MSS SP–58. USE SUPPORT MATERIALS WHICH ARE COMPATIBLE WITH THE MATERIALS OF THE PIPING OR EQUIPMENT. PROTECT AGAINST RUST, ABRASION AND ELECTROLYTIC ACTION.
2. USE COPPER PLATED HANGERS AND SUPPORTS FOR BARE COPPER PIPING. USE HOT–DIP GALVANIZED OR ZING ELECTRO–PLATE OTHER METAL SUPPORT COMPONENTS.
3. SUPPORT PIPING SYSTEMS IN ACCORDANCE WITH APPLICABLE (REFERENCED) STANDARDS. SPACE PIPING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. INDEPENDENTLY SUPPORT CONCENTRATED WEIGHTS SUCH AS VALVES, STRAINER,S HEAVY FITTINGS, AND WHERE DIRECTION CHANGES OCCUR. SUPPORT PIPING FROM BUILDING STRUCTURE. INCORPORATE REQUIREMENTS FOR VIBRATION CONTROL WITHIN THE SUPPORT SYSTEM.
4. STANDARD PIPE HANGERS (MSS TYPES LISTED FOR REFERENCE)
   A. TYPE 1: ADJUSTABLE CLEVIS HANGER, CARBON STEEL.
   B. TYPE 40: INSULATION PROTECTION SHIELD, CARBON STEEL, GALVANIZED FINISH, MINIMUM 12" LENGTH.
   C. TYPE 8: EXTENSION PIPE OR RISER CLAMP, CARBON STEEL.
   D. TYPE 38: ADJUSTABLE PIPE SADDLE SUPPORT, CAST IRON SADDLE, LOCKOUT NIPPLE AND CAST IRON REDUCER.
   E. TYPE 103: OFFSET PIPE CLAMP, CARBON STEEL.
5. CLAMPS, INSERTS, ATTACHMENTS, ANCHORS, GUIDES:
   A. TYPE 18: INSERT, MALLEABLE IRON, UL & FM APPROVED.
   B. TYPE 19 AND 23: C–TYPE CLAMP, DUCTILE IRON CLAMP, HARDENED STEEL CUP POINT SET SCREW AND LOCKNUT.
   C. TYPE 22: WELDED BEAM ATTACHMENT, CARBON STEEL.
   D. TYPE 29 AND 29: FORGED STEEL BEAM CLAMP WITH EYE NUT.
   E. TYPE 31, 32, 33: LIGHT, MEDIUM HEAVY WELDED CARBON STEEL BRACKET, ATTACH PIPE WITH SCHEDULED HANGER OR SUPPORT.
   F. UNIVERSAL TRAPEZE HANGERS (UNISTRUT): CARBON STEEL CHANNEL.
   G. HANGER RODS: CARBON STEEL, CADMIUM PLATED, THREADED BOTH ENDS, THREADED ONE END, OR CONTINUOUSLY THREADED.

J. PIPING INSULATION

1. ACCEPTABLE MANUFACTURERS: CERTAINTEED, JOHN MANVILLE, OWENS–CORNING.
2. USE MATERIALS WITH MAXIMUM FLAME SPREAD/FUEL CONTRIBUTED/SMOKE DEVELOPED RATING OF 25/50/50 IN ACCORDANCE WITH ASTM E84.
3. USE INSULATION RATED FOR TEMPERATURES ENCOUNTERED.
4. TYPE A: FIBER GLASS; ANSI/ASTM C547; 'K' VALUE OF 0.23 AT 75°F; NONCOMBUSTIBLE. HIGH DENSITY, WHITE KRAFT JACKET BONDED TO ALUMINUM FOIL, REINFORCED WITH FIBER GLASS YARN. MANVILLE MICRO–LOK AP–T PLUS.
5. INSTALL INSULATION AFTER PIPING HAS BEEN PRESSURE TESTED AND ACCEPTED. CONTINUE INSULATION WITH VAPOR BARRIER THROUGH PIPE SUPPORTS, HANGERS AND SLEEVES. INSULATE JOINTS, FITTINGS, VALVES, UNIONS, FLANGES, STRAINERS, FLEXIBLE CONNECTIONS, EXPANSION JOINTS AND OTHER DEVICES WITH INSULATION OF LIKE MATERIAL AND THICKNESS AS ADJOINING PIPE AND FINISH WITH GLASS CLOTH AND ADHESIVE. INSTALL INSULATION ON VALVES, FLANGES, UNIONS, STRAINERS AND EXPANSION JOINTS IN SUCH A MANNER THAT IT CAN BE EASILY REMOVED AND REPLACED WITHOUT DAMAGE.

K. PIPING

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENTS, APPROXIMATE SIZES AND RELATIVE LOCATIONS OF PRINCIPAL EQUIPMENT AND MATERIALS. PROVIDE OFFSETS AS REQUIRED FOR COORDINATED INSTALLATION. PROVIDE MINOR EQUIPMENT, DETAILS, MATERIALS AND METHODS NOT SHOWN BUT STANDARD, REFERENCED AND SPECIFIED, TO COMPLETE THE WORK.
2. PIPE:
   A. COPPER TYPE L: HARD DRAWN, SEAMLESS COPPER; ASTM B88.
   B. COPPER TYPE DWV: SEAMLESS COPPER, ASTM B306.
   C. COPPER TYPE K: HARD DRAWN, MEDICAL GRADE, CLEAN AND CAP, SEAMLESS COPPER, ASTM B88 & B820.
   D. PVC: PLAIN ENDS, SCHEDULE 40 POLYVINYL CHLORIDE (PVC) PLASTIC DWV PIPE; ASTM D2665, D1784.
   E. STEEL: SCHEDULE 40 OR STANDARD WEIGHT (AS INDICATED ON PLANS), WELDED OR SEAMLESS STEEL, BLACK; ASTM A53 OR A106.
   F. SERVICE WEIGHT BELL & SPIGOT CAST IRON.
   G. NO–HUB CAST IRON.
4. FITTINGS:
   A. WROUGHT COPPER: SOLDERED–JOINT PRESSURE FITTINGS; ASME B16.22.
   B. WROUGHT COPPER: SOLDERED–DVW, ASTM B306–99.
   C. PVC: SOCKET TYPE, DWV PIPE PATTERNS, ASTM D2265, D3311, D1784.
   D. MALLEABLE IRON: THREADED, 150PSI, ANSI B16.3.
5. JOINT MATERIAL:
   A. SOLDER FILLER METAL: ALLOY SB5 (95% TIN, 5% ANTIMONY). ASTM B32.
   B. FLUX: PASTE OR LIQUID, ASTM B813.
   C. SOLVENT WELDED: SOCKET TYPE; ASTM D2564.
   D. BRAZED FILLER METAL: BcuP5, ANSI AWA B16.22.
6. UNIONS:
   A. BRONZE: SOLDERED JOINT.
   B. MALLEABLE IRON: GROUND JOINT, THREADED, BRASS SEAT ANSI B16.3.
7. MISCELLANEOUS:
   A. BOLTS AND NUTS: CARBON STEEL HEXHEAD STUDS WITH HEAVY HEX NUTS; ASTM A307 GRADE B, ASTM A194 GRADE 2H.
   B. GASKETS: NON–ASBESTOS MATERIAL, THICKNESS, PRESSURE AND TEMPERATURE TO SUIT SYSTEM; FLEXITALLIC.
   C. DIELECTRIC FITTINGS: ISOLATION FLANGES, UNIONS AND COUPLINGS, EPCO SALES, INC.

L. VALVES

1. ACCEPTABLE MANUFACTURERS: GRINNEL, STOCKHAM, NIBCO, HAMMOND, CRANE, DEZURICK.
2. BALL 2–PIECE: 400PSI 2–PIECE, FULL PORT, BRONZE BODY BALL VALVE, ZINC PLATED STEEL HANDLE WITH PROTECTIVE SLEEVE (LOCKABLE WHERE INDICATED), PTFE SEAT, SOLDERED JOINT, MSS–SP–110. PROVIDE VALVE STEM EXTENSIONS FOR VALVES IN INSULATED SYSTEMS EQUAL TO STOCKHAM–214.
3. CHECK–BRONZE: 125PSI, BRONZE BODY, BRONZE DISC, THREADED CAP, SOLDERED JOINTS, SWING TYPE. MSS–SP–80–T3. EQUAL TO STOCKHAM–9–309.
4. BALL 3–PIECE: 400PSI, 3–PIECE, FULL PORT, BRONZE BODY BALL VALVE, CHROME PLATED BRASS BALL, ZINC PLATED STEEL HANDLE WITH PROTECTIVE SLEEVE, PTFE SEAT, PRE–CLEANED AND CAPPED, BRAZED JOINT.

BIDDING INSTRUCTIONS

BASE BID:

1. CONTRACTOR SHALL PROVIDE ALL MATERIAL INDICATED ON THESE DRAWINGS INCLUDING ACCESSORIES REQUIRED FOR A COMPLETE AND WORKING SYSTEM.
2. VISIT SITE TO VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMISSION OF BIDS.
3. QUESTIONS SHALL BE DIRECTED THROUGH THE ARCHITECT TO THE ENGINEER. SEE CONTACT INFORMATION IN THE TITLE BLOCK.

ADD ALTERNATES:

NONE

DEDUCT ALTERNATES:

NONE

PLUMBING ABBREVIATIONS

2CS	TWO COMPARTMENT SINK	MS	MOP SINK
3CS	THREE COMPARTMENT SINK	MV	MIXING VALVE
AAV	AIR ADMITTANCE VALVE	N	NEW
AFF	ABOVE FINISHED FLOOR	OI	OIL INTERCEPTOR
AG	AIR GAP	PC	PLUMBING CONTRACTOR
AHU	AIR HANDLING UNIT	RD	ROOF DRAIN
BF	BELOW FLOOR	R	REMOVE
BG	BELOW GRADE	RDO	OVERFLOW ROOF DRAIN
CFH	CUBIC FEET PER HOUR	RTU	ROOF TOP UNIT
CO	CLEAN OUT	RP	RECIRCULATION PUMP
COTG	CLEAN OUT TO GRADE	RWC	RAIN WATER CONDUCTOR
CW	COLD WATER	RWCO	OVERFLOW RAIN WATER CONDUCTOR
CWF	COLD WATER FILTER	SAN	SANITARY
CWS	SOFTENED COLD WATER	SFU	SUPPLY FIXTURE UNIT
CP	CHROME PLATED	SH	SHOWER
DF	DRINKING FOUNTAIN	SI	SOLIDS INTERCEPTOR
DFU	DRAINAGE FIXTURE UNIT	SP	STANDPIPE
DN	DOWN	SEP	SEWAGE EJECTOR PUMP
DW	DISHWASHER	SS	SAFETY SHOWER
E	EXISTING TO REMAIN	TW	TEMPERED WATER
EP	ELEVATOR SUMP PUMP	TWR	TEMPERED WATER RECIRCULATION
EC	ELECTRICAL CONTRACTOR	TP	TRAP PRIMER
EW	EYE WASH ELECTRIC	VTR	VENT THROUGH ROOF
EWC	WATER COOLER	U C	UNDER COUNTER
FM	FORCED MAIN	UH	UNIT HEATER
FAI	FRESH AIR INTAKE	UR	URINAL
FA	FROM ABOVE	V	VENT
FB	FROM BELOW	VIF	VERIFY IN FIELD
FCO	FLOOR CLEAN OUT	W	WASTE
FAG	FIXED AIR GAP	WC	WATER CLOSET
FWG	FOOD WASTE GRINDER	WCO	WALL CLEAN OUT
FD	FLOOR DRAIN	W D	WASHER DRYER COMBO
FS	FLOOR SINK	WM	WASHING MACHINE
G	GAS	WF	WATER FILTER
GI	GREASE INTERCEPTOR	WH	WALL HYDRANTS
GW	GREASE WASTE	WHA	WATER HAMMER ARRESTOR
HC	HANDICAP	WHE	ELECTRIC WATER HEATER
HS	HAND SINK	WHG	GAS WATER HEATER
HAP	HIGH AS POSSIBLE	ø	DIAMETER
HB	HOSE BIBB		
HW	HOT WATER		
HWR	HOT WATER RECIRCULATION		
HWS	SOFTENED HOT WATER		
IM	ICE MACHINE		
KS	KITCHEN SINK		
LAV	LAVATORY		
LF	LINEAR FOOT		

CODE INFORMATION

PLUMBING:

2023 FLORIDA PLUMBING CODE

GAS:

2023 FLORIDA FUEL GAS CODE

ENERGY:

2023 FLORIDA ENERGY CODE

FIRE:

2023 FLORIDA FIRE CODE

BUILDING:

2023 FLORIDA BUILDING CODE

CERTIFICATION:

CT

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REVISION DATES

NO.	DATE	TYPE

ISSUE DATES

TYPE	DATE
PERMIT/CONSTRUCTION SET	08/14/26

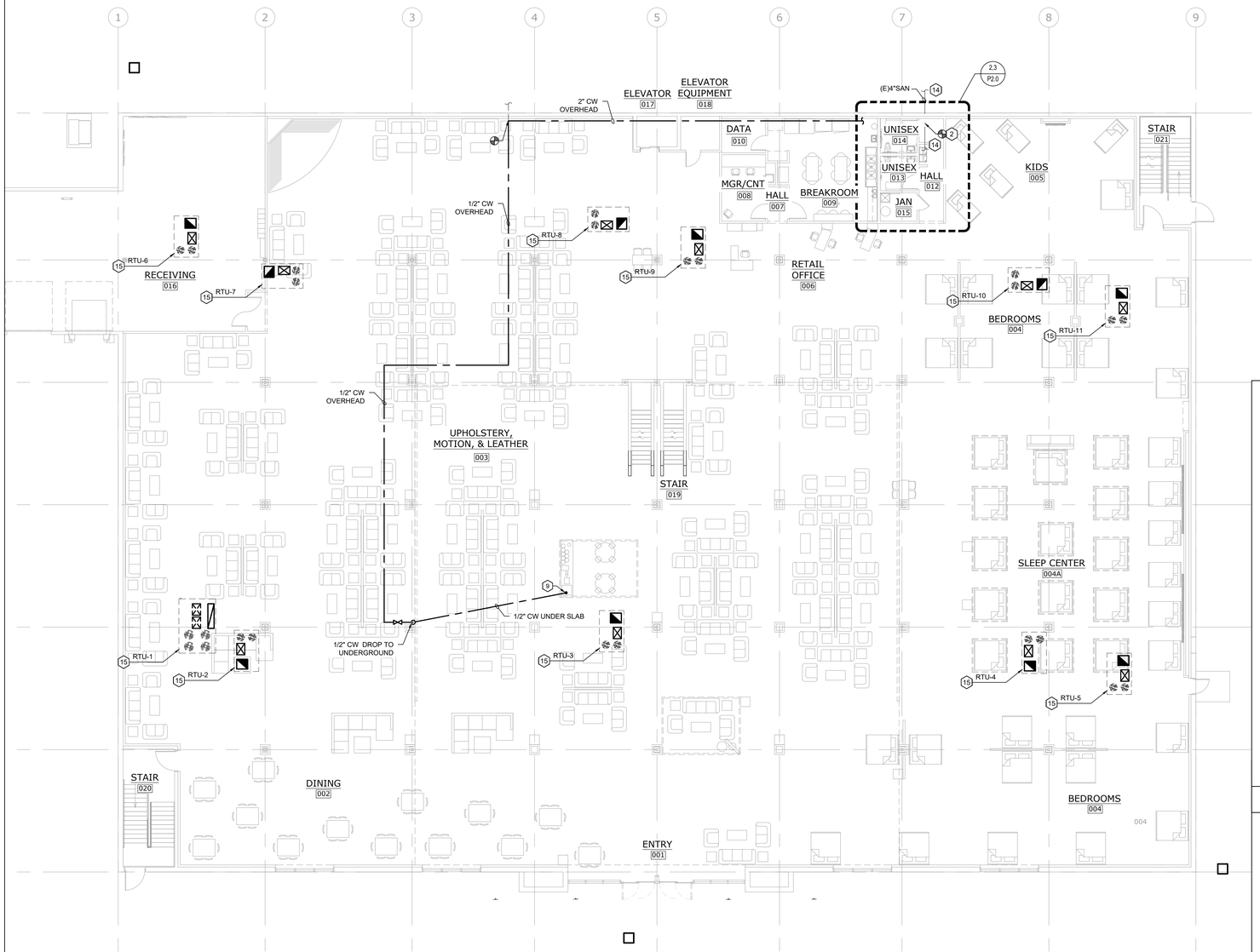
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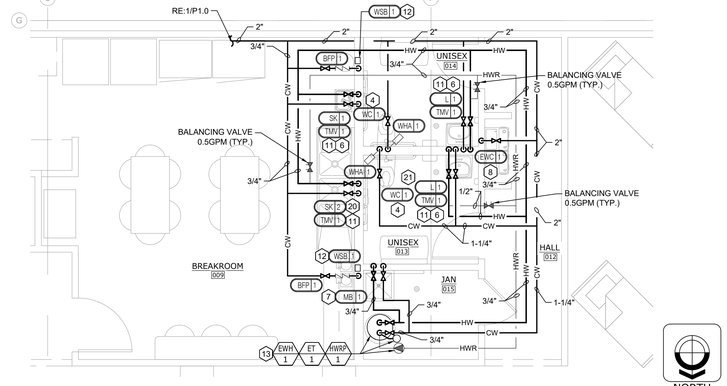
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SHEET TITLE
PLUMBING SYMBOLS AND NOTES

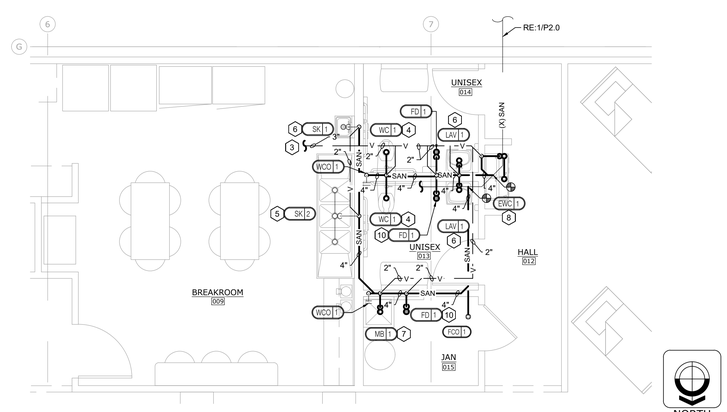
SHEET NUMBER
P1.0



1 OVERALL PLUMBING PLAN — SCALE: 3/32" = 1'-0"



3 ENLARGED WASTE AND VENT PLAN — SCALE: 1/4" = 1'-0"



2 ENLARGED DOMESTIC WATER PLAN — SCALE: 1/4" = 1'-0"

PLAN KEY NOTES

1. CONNECT NEW 2" WATER LINE TO EXISTING 2" WATER LINE. FIELD VERIFY EXACT LOCATION AND MAKE NECESSARY CONNECTIONS PER THE EXISTING CONDITION. VERIFY ALL CODE AND UTILITY REQUIRED DEVICES AND ACCESSORIES (BACKFLOW PREVENTION, METER, ETC) ARE PROPERLY INSTALLED. REPORT ANY DEFICIENCIES TO ARCHITECT OF RECORD IMMEDIATELY. PROVIDE DEVICES AND ACCESSORIES PER LOCAL AUTHORITY HAVING JURISDICTION AS REQUIRED.
2. CONNECT NEW SANITARY TO EXISTING 4" SANITARY SEWER PIPING. FIELD VERIFY EXACT LOCATION, INVERT AND DIRECTION OF FLOW AND MAKE NECESSARY CONNECTIONS AS REQUIRED PER THE EXISTING FIELD CONDITIONS.
3. CONNECT NEW 3" VENT TO CLOSEST EXISTING 3" OR LARGER VENT STACK AS SHOWN IN PLAN. PLUMBING CONTRACTOR TO FIELD VERIFY EXACT SIZE, LOCATION AND ROUTING.
4. MINIMUM REQUIREMENTS FOR WC-1: 4" SANITARY, 2" VENT, 1-1/4" CW.
5. MINIMUM REQUIREMENTS FOR SK-2: 3" SANITARY, 2" VENT, 3/4" CW.
6. MINIMUM REQUIREMENTS FOR L-1, SK-1: 2" SANITARY, 1-1/2" VENT, 1/2" CW, 1/2" HW.
7. MINIMUM REQUIREMENTS FOR MB-1: 3" SANITARY, 2" VENT, 3/4" CW, 3/4" HW
8. MINIMUM REQUIREMENTS FOR EWC-1: 2" SANITARY, 1-1/2" VENT, 1/2" CW.
9. ROUTE ½" CW UP IN LOUNGE MILLWORK FRAMING TO WATER COOLER. PROVIDE SHUT-OFF VALVE AND WATTS LF7 (OR EQUAL) BACKFLOW PREVENTER. SHUT OFF VALVE TO BE INSTALLED MAXIMUM 3" AFF. PROVIDE NSF61 RATED FLEXIBLE PIPING/TUBING BETWEEN RISER AND WATER COOLER. WATER LINE TO BE 8" FROM CENTER LINE OF ELECTRICAL FLOOR BOX.
10. MINIMUM REQUIREMENTS FOR FD-1: 4" SAN, 2" VENT
11. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL TMV-1 IN AN ACCESSIBLE LOCATION.
12. 1/2" CW WITH ISOLATION VALVE AND BACKFLOW DEVICE, DOWN IN WALL TO WSB-1. 1/4" COMPRESSION FITTING IN WSB-1 TO SERVE COFFEE MAKER/WATER COOLER (FURNISHED AND INSTALLED BY OTHERS). PLUMBING CONTRACTOR SHALL PROVIDE COLD WATER CONNECTION. COFFEE MAKER WSB TO BE INSTALLED 4" ABOVE BACKSPLASH. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT FOR INSTALLATION OF WATER COOLER AND LOUNGE WSB.
13. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL EWH-1, HWRP-1, AND ET-1 SUPPORT FROM STRUCTURE ABOVE AS REQUIRED. EXTEND 3/4" CW AND 3/4" HW DOWN TO EWH-1. EXTEND TEMPERATURE AND PRESSURE RELIEF VALVE DISCHARGE DOWN TO MB-1.
14. PLUMBING CONTRACTOR TO FIELD VERIFY EXACT SANITARY LOCATION, ROUTING AND INVERTS OF EXISTING SANITARY LINE. PROVIDE TECHNICAL REPORT ON CONDITION OF EXISTING SANITARY SEWER. REFURBISH SANITARY SYSTEM TO LIKE NEW OPERATION. REPLACE EXISTING FLOOR CLEANOUTS WITH NEW ON EXISTING SANITARY LINE.
15. EQUIPMENT FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. MAKE FINAL CONNECTIONS FOR CONDENSATE.

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DATE 08/14/2026

SHEET TITLE: PLUMBING PLANS

SHEET NUMBER: P2.0

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUF.	MODEL	COLOR	FITTINGS	MANUF.	MODEL	FINISH	REMARKS
WC-1	WATER CLOSET (ADA)	AMERICAN STANDARD	MADERA 3043.001	WHITE	FLUSH VALVE	SLOAN	OPTIMA PLUS 8111 1.6 GPF	CHROME	FLOOR MOUNTED; SOLID WHITE OPEN FRONT SEAT LESS COVER; CHROME PLATED SUPPLY, BOLT CAPS
L-1	LAVATORY	AMERICAN STANDARD	LUCERNE 0355.912	WHITE	FAUCET	SLOAN	OPTIMA EBF-85-4	CHROME	BATTERY POWERED, SENSOR OPERATED FAUCET COMPLETE WITH SOLENOID VALVE MODULE (FILTER, BATTERY COMPARTMENT, FIBER OPTIC CABLE); BDT THERMOSTATIC MIXING VALVE; ETF-460-A STRAINER PROVIDE TRUEBRO LAVGUARD2 #100EZ TRAP GUARD PROVIDE WALL CARRIER
MB-1	MOP SERVICE BASIN	MUSTEE	63M	WHITE	FAUCET	FIAT	830-AA	CHROME	MOP HANGER 889-CC; HOSE AND WALL HOOK 832AA; BUMPER GUARD 1239BB; SILICONE SEALANT 833AA; BUMPER GUARD E-88-AA; WALL GUARDS: SS MSG
TMV-1	THERMOSTATIC MIXING VALVE	WATTS	LFMMV	-	-	-	-	-	LEAD FREE; SET AT 105° F LOCATE IN ACCESSIBLE LOCATION BELOW LAVATORY.
SK-1	EMPLOYEE HAND SINK	GSW-USA	HS-1217SSG	STAINLESS STEEL	FAUCET	GSW-USA	AB-1953	CHROME PLATED	20 GAUGE 304SS; FAUCET AND STRAINER INCLUDED PROVIDE WITH TRUBRO LAV GUARD2 UNDERSINK PIPING COVERS FOR DRAIN AND WATER SUPPLIES
FCO-1	FLOOR CLEANOUT	JR SMITH	4020	-	-	-	-	-	CAST IRON BODY; ADJUSTABLE ROUND NICKEL BRONZE TOP; GASKET SEAL
FD-1	FLOOR DRAIN	JR SMITH	2005	-	-	-	-	-	5" ROUND NICKEL BRONZE STRAINER; SEDIMENT BUCKET; PROVIDE J R SMITH 2692 TRAP SEAL.
WCO-1	WALL CLEANOUT	JR SMITH	4530S	-	-	-	-	-	CAST IRON CLEANOUT TEE; GASKET SEAL; STAINLESS STEEL COVER
EWC-1	ELECTRIC WATER COOLER	OASIS	PG8ACSL	STANDARD	-	-	-	-	120/1; 1/4HP; 8 GPH; PLASTIC DRAIN PIPE CONNECT WATER WITH DIELETRIC FITTINGS
WHA	WATER HAMMER ARRESTOR	J.R. SMITH	5005	-	-	-	-	-	P.D.I. FIXTURE RATING 1-11 WSFU. INSTALL WITH ACCESS.
WSB-1	WATER SUPPLY BOX	OATEY	39140	-	-	-	-	-	INSTALL WITH SHUT-OFF VALVE AND BACKFLOW PREVENTER. 1/4" COMPRESSION FITTING FOR COFFEE MAKER / WATER COOLER / REFRIGERATOR CONNECTION.
BFP-1	BACKFLOW PREVENTOR	WATTS	LF7	-	-	-	-	-	LEAD FREE; ASSE1024
SK-2	3 COMPARTMENT SINK	REGENCY	600S318242G	STAINLESS STEEL	FAUCET	T&S	B-0231-CC	CHROME	SINK: FURNISH WITH LEVER HANDLE WASTE VALVES; STRAINER; 16 GA; ETL CERTIFIED FAUCET: 12" SWIVEL SPOUT; COLOR CODED HANDLES

WSFU CALCULATION

2021 INTERNATIONAL PLUMBING CODE

FIXTURE	DESCRIPTION	HOT	QUAN	TOTAL - HOT	WSFU	QUAN	TOTAL WSFU
WC	FLUSH VALVE TOILET	-	-	-	10.00	2	20.00
EWC	ELECTRIC WATER COOLER	-	-	-	0.25	1	0.25
-	WATER COOLER	-	-	-	1.00	1	1.00
-	COFFEE MAKER	-	-	-	1.00	2	2.00
MB	MOP BASIN	2.25	1	2.25	3.00	1	3.00
LAV	LAVATORY	1.50	2	3.0	2.00	2	4.00
SK-1	HAND SINK	1.00	1	1.00	1.00	1	1.00
SK-2	3 COMP SINK	3.00	1	3.00	4.00	1	4.00
	TOTALS		5	9.25 HWFU		11	35.25 WSFU
							44.0 GPM
				REQUIRED:	3/4" HW		REQUIRED: 1-1/2" CW
							EXISTING: 2" CW

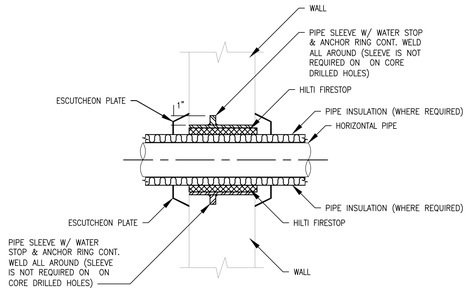
DFU CALCULATION - SANITARY

2021 INTERNATIONAL PLUMBING CODE

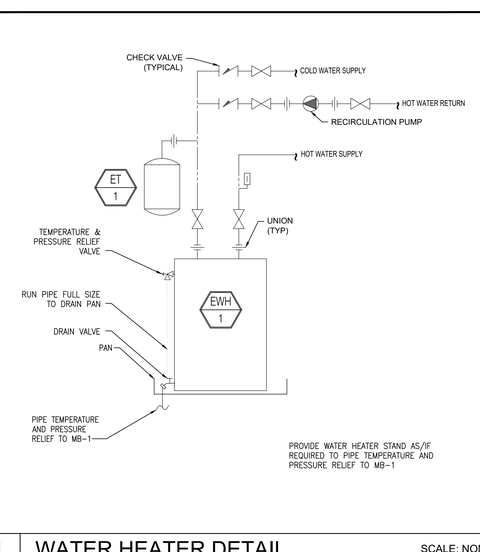
FIXTURE	DESCRIPTION	DFU	QUAN	TOTAL
WC	WATER CLOSET	4.0	2	8.0
EWC	ELECTRIC WATER COOLER	0.5	1	0.5
MB	MOP BASIN	3.0	1	3.0
LAV	LAVATORY	1.0	2	2.0
SK-1	KITCHEN SINK	2.0	1	2.0
SK-2	3 COMP SINK	4.0	1	4.0
FD	FLOOR DRAIN (4")	2.0	3	6.0
	TOTAL			25.5 DFU
	REQUIRED:			4" SAN.
	AVAILABLE			4" SAN.

PLUMBING EQUIPMENT SCHEDULE

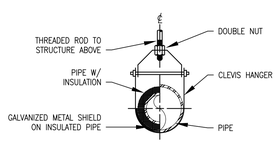
TAG	ITEM	MANUF.	MODEL	CONNECTIONS		ELECTRICAL DATA			FLOW (GPM)	HEAD (FT)	REMARKS
				CW	HW	V / PH	kW / HP (watts)	AMPS			
ET-1	EXPANSION TANK	AMTROL	ST-5	3/4	-	-	-	-	-	-	PROVIDE WITH UNION SUPPORT INDEPENDENTLY FROM PIPING
EWH-1	ELECTRIC WATER HEATER	BRADFORD WHITE	LE130L3-3	3/4	3/4	480 / 3	4.5 / -	-	-	-	30 GAL; 21 GPH RECOVERY @90 def F RISE SET TEMPERATURE TO 140 deg F
HWRP-1	HOT WATER RECIRCULATION PUMP	TACO	006e3	1/2	1/2	120 / 1	- / (44)	0.54	0.5	10	PROVIDE WITH TACO TIME CLOCK AND AQUASTAT SET AQUASTAT TO 120 deg F



5 HORIZONTAL PIPE SLEEVE DETAIL SCALE: NONE



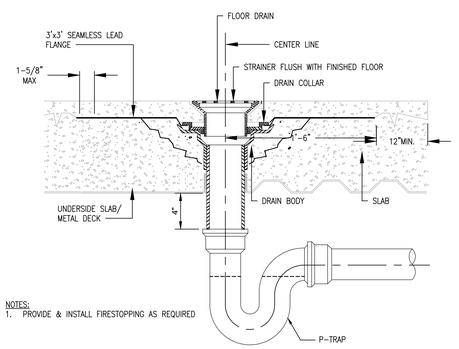
1 WATER HEATER DETAIL SCALE: NONE



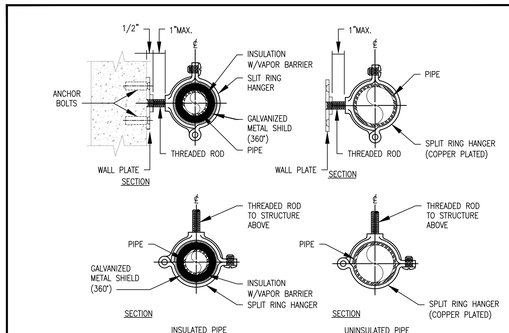
PIPE HANGER SCHEDULE

PIPE DIAMETER (IN)	SHIELD LENGTH (IN)	SHIELD THICKNESS (USSG)	MAXIMUM PIPE SUPPORT SPACING					
			STEEL PIPE		CAST IRON PIPE		COPPER PIPE	
			ROD DIA (IN)	SUPPORT SPACING	ROD DIA (IN)	SUPPORT SPACING	ROD DIA (IN)	SUPPORT SPACING
1/2	12	18	3/8	5'-0"	-	-	3/8	5'-0"
3/4	12	18	3/8	6'-0"	-	-	3/8	5'-0"
1	12	18	3/8	7'-0"	-	-	3/8	6'-0"
1-1/4	12	18	3/8	8'-0"	-	-	3/8	7'-0"
1-1/2	12	18	3/8	9'-0"	3/8		3/8	8'-0"
2	12	18	3/8	10'-0"	1/2	5'-0"	3/8	8'-0"
2-1/2	12	18	1/2	11'-0"	1/2	5'-0"	1/2	9'-0"
3	12	18	1/2	12'-0"	1/2	5'-0"	1/2	10'-0"
4	12	14	5/8	12'-0"	1/2	5'-0"	1/2	12'-0"
5	18	14	5/8	12'-0"	5/8	5'-0"	1/2	13'-0"
6	18	14	3/4	12'-0"	3/4	5'-0"	-	-
8	18	14	7/8	12'-0"	4/8	5'-0"	-	-

2 HANGER SCHEDULE/DETAIL SCALE: NONE



3 FLOOR DRAIN DETAIL SCALE: NONE



PIPE SUPPORT SCHEDULE

COPPER TUBING DIA.	ROD DIA.	SUPPORT SPACING	MAXIMUM RECOM. LOAD LBS.
1/2"	3/8"	5'-0"	180
3/4"	"	5'-0"	"
1"	"	6'-0"	"
1 1/4"	"	7'-0"	"
1 1/2"	"	8'-0"	"
2"	"	8'-0"	"
2 1/2"	1/2"	9'-0"	"
	1/2"	10'-0"	180

4 COPPER PIPE SUPPORT DETAIL SCALE: NONE

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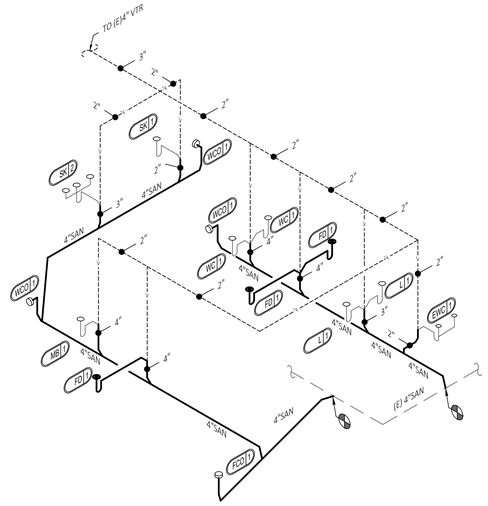
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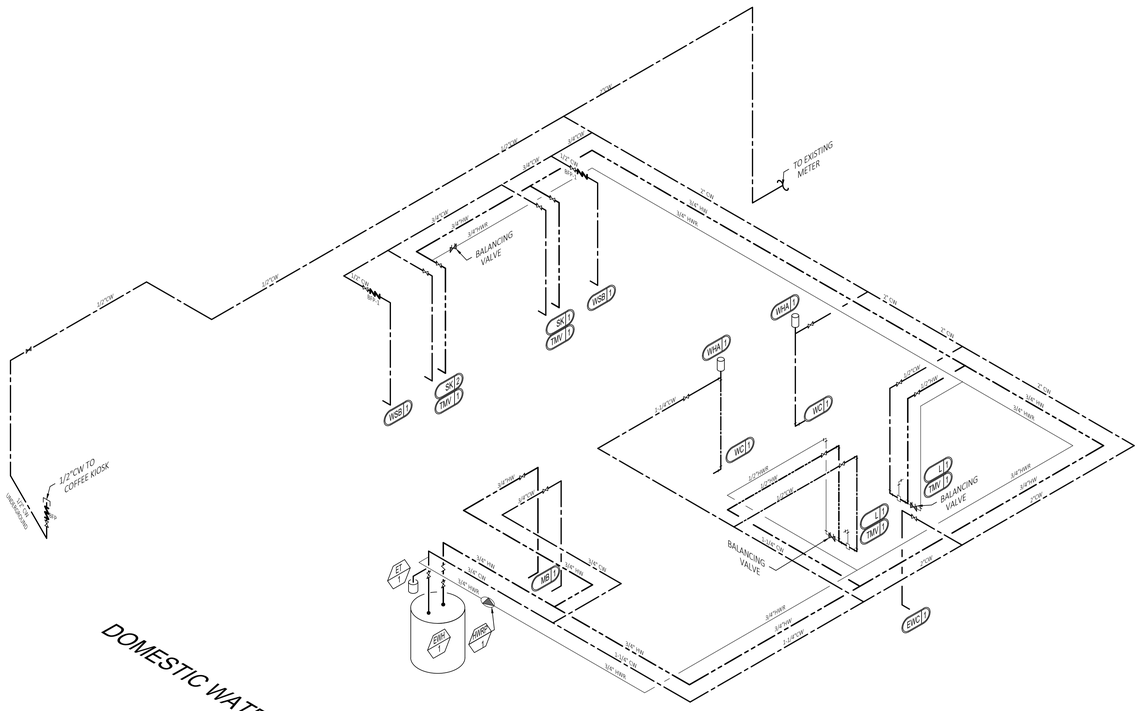
DATE 08/14/2026

SHEET TITLE
PLUMBING SCHEDULES AND DETAILS

SHEET NUMBER
P3.0



WASTE AND VENT ISOMETRIC DIAGRAM



DOMESTIC WATER ISOMETRIC DIAGRAM

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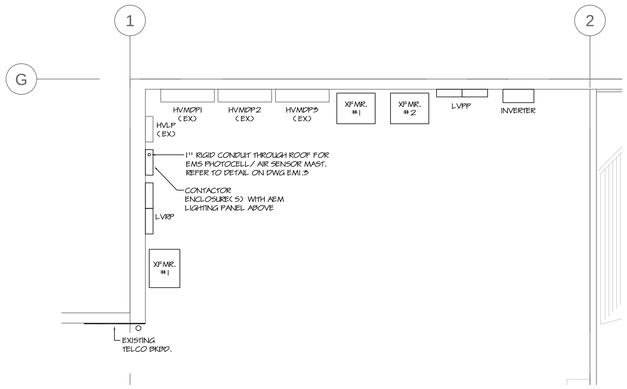
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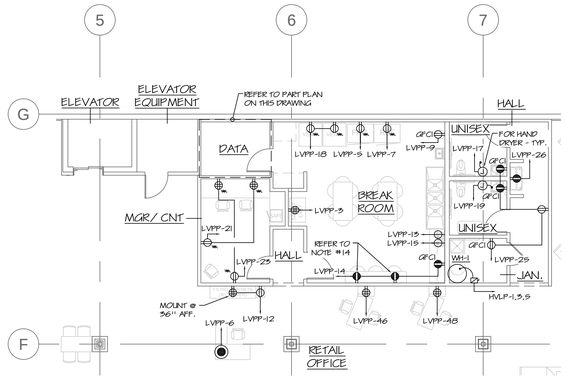
SHEET TITLE
PLUMBING DIAGRAMS

SHEET NUMBER
P3.1



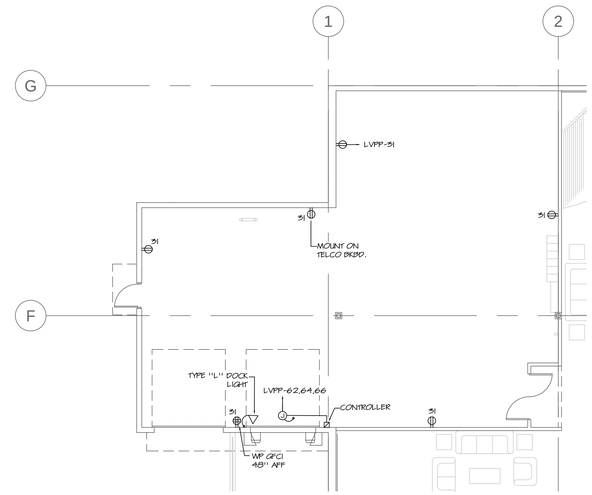
ELECTRICAL AREA PART PLAN

SCALE 1/4" = 1'-0"



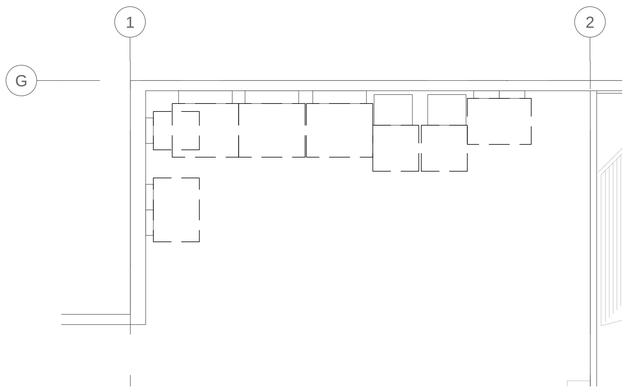
BACK OF HOUSE PART PLAN

SCALE 1/8" = 1'-0"



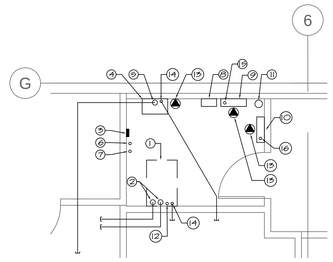
RECEIVING AREA PART PLAN

SCALE 1/8" = 1'-0"



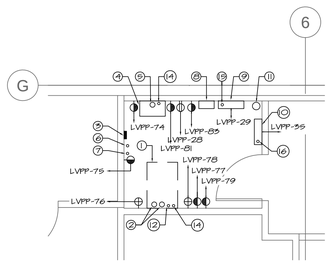
GEAR CLEARANCE PART PLAN

SCALE 1/4" = 1'-0"



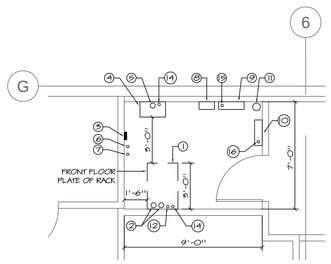
DATA ROOM LOW VOLTAGE PART PLAN

SCALE 1/4" = 1'-0"



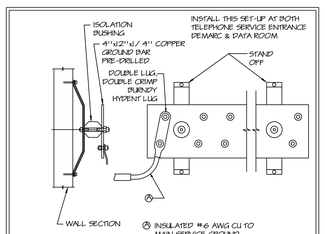
DATA ROOM POWER PART PLAN

SCALE 1/4" = 1'-0"



DATA ROOM DIMENSIONS PART PLAN

SCALE 1/4" = 1'-0"



DATA ROOM & DEMARC GROUND BAR DETAIL

NO SCALE

DATA ROOM SCHEDULE:

1. FLOOR MOUNTED DATA RACK.
2. TWO (2) 4" CONDUITS EXTENDED INTO SALES FLOOR AREA WHERE SHOWN. EXTEND UP AND ROUTE IN ROOF STRUCTURE ABOVE. REFER TO DETAIL ON DRAWING E1.0.1.
3. COPPER GROUND BAR MOUNTED 1'-0" BELOW CEILING.
4. WALL MOUNTED LP RACK.
5. 4" CONDUIT EXTENDED INTO SALES FLOOR AREA WHERE SHOWN. EXTEND UP AND ROUTE IN ROOF STRUCTURE ABOVE. REFER TO DETAIL ON DRAWING E1.0.1.
6. 2" CONDUIT WITH PULL STRING FROM TELCO DEMARC MPOE.
7. 2" CONDUIT WITH 1" INNERDUCT INSTALLED IN 2" CONDUIT FROM TELCO DEMARC MPOE. INSTALL MEASURED MULE PULL ROPE INSIDE INNERDUCT.
8. AEM SERVER PANEL.
9. BURGLAR ALARM PANEL.
10. FIRE ALARM EQUIPMENT.
11. 6" R X 24"H PLAN TUBE WITH GLUED END CAP ON BOTTOM AND OPEN ON TOP. MOUNT AT 6" AFF TO BOTTOM. FOR AS-BUILT PLANS STORAGE.
12. 2" RIGID CONDUIT PENETRATION THROUGH ROOF FOR SATELLITE RADIO AND AEM CRADLEPOINT. EXTEND DOWN TO ABOVE DATA RACK. REFER TO DRAWING E1.0.1 FOR DETAIL. EXTEND CONDUIT 5" ABOVE ROOF LINE. FURNISH AND INSTALL WEATHERHEAD AT TOP OF CONDUIT.
13. SINGLE RJ45 JACK.
14. 2" CONDUIT EXTENDED TO MANAGERS OFFICE. ROUTE 2" ABOVE CEILINGS. REFER TO DETAIL ON DRAWING E1.0.1.
15. 1" RIGID CONDUIT PENETRATION THROUGH ROOF FOR FUTURE BURGLAR SYSTEM ANTENNA. EXTEND DOWN TO ABOVE BURGLAR PANEL. EXTEND CONDUIT 5" ABOVE ROOF LINE. FURNISH AND INSTALL WEATHERHEAD AT TOP OF CONDUIT.
16. 1" RIGID CONDUIT PENETRATION THROUGH ROOF FOR FUTURE FIRE ALARM SIGNAL BOOSTER ANTENNA. EXTEND DOWN TO ABOVE FACP. EXTEND CONDUIT 5" ABOVE ROOF LINE. FURNISH AND INSTALL WEATHERHEAD AT TOP OF CONDUIT.

DATA ROOM NOTES:

1. BDP LV VENDOR SHALL INSTALL A SINGLE RJ45 JACK NEXT TO THE NVR FOR COMMUNICATION LINK. LABEL COVER PLATE "FOR NVR". PATCH CORD FROM NVR TO RJ45 JACK SHALL BE BY LP VENDOR.
2. BDP LV VENDOR SHALL INSTALL A SINGLE RJ45 JACK NEXT TO THE BURGLAR PANEL FOR COMMUNICATION LINK. LABEL COVER PLATE "FOR BURG PANEL". PATCH CORD FROM BURGLAR PANEL TO RJ45 JACK SHALL BE BY LP VENDOR.
3. BDP LV VENDOR SHALL INSTALL A SINGLE RJ45 JACK NEXT TO THE FIRE ALARM CONTROL PANEL FOR COMMUNICATION LINK. LABEL COVER PLATE "FOR FIRE ALARM". PATCH CORD FROM FIRE ALARM CONTROL PANEL TO RJ45 JACK SHALL BE BY FIRE ALARM VENDOR.
4. EC SHALL FURNISH AND INSTALL A 12"x4" COPPER GROUND BAR IN DATA CLOSET. CONNECT GROUND BAR TO MAIN SERVICE GROUND VIA #6 AWG CU. INSULATED GROUNDING CONDUCTOR. FIELD VERIFY EXACT LOCATION OF GROUND BAR WITH BDP REPRESENTATIVE.
5. ALL RECEPTACLES SHALL BE MOUNTED AT 18" AFF UNLESS OTHERWISE INDICATED.
6. ALL RECEPTACLES SHALL BE LABELED WITH P-TOUCH TO MATCH PANEL SCHEDULE DESCRIPTION.
7. NO JUNCTION OR PULL BOXES SHALL BE LOCATED ABOVE THE DATA ROOM CEILING. THIS NOTE APPLIES TO EC, BDP LV AND BDP LP VENDORS.
8. BDP LP VENDOR SHALL LOCATE VIDEO MONITOR ON SAME WALL THAT THE LP RACK IS INSTALLED.

SYMBOL LIST

LIGHTING:

- CEILING MOUNTED LIGHTING FIXTURE (WALL MOUNTED) "A" = FIXTURE TYPE, "1" = CIRCUIT NUMBER, "a" = SWITCHING
- FLUORESCENT LIGHTING FIXTURE
- EXIT LIGHT

RECEPTACLES:

- DUPLEX RECEPTACLE (GFI INDICATES 1/2 CONTROLLED)
- DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER BACKSPLASH "GFCI" DENOTES GROUND FAULT INTERRUPTER RECEPTACLE
- 120V - 20A SINGLE RECEPTACLE - ISOLATED GROUND
- 120V - 20A DOUBLE DUPLEX (QUAD) RECEPTACLE W/ BUILT-IN SURGE SUPPRESSION.
- DOUBLE DUPLEX RECEPTACLE (GFI INDICATES 1/2 CONTROLLED)
- DOUBLE DUPLEX RECEPTACLE - ISOLATED GROUND
- 120V - 20A SINGLE RECEPTACLE MOUNTED 6" ABOVE COUNTER BACKSPLASH
- SPECIALTY RECEPTACLE
- FLOOR MOUNTED DUPLEX RECEPTACLE
- FLOOR MOUNTED DOUBLE DUPLEX RECEPTACLE
- FLOOR MOUNTED DOUBLE DUPLEX RECEPTACLE WITH DATA PORT(5)
- FLOOR MOUNTED DOUBLE DUPLEX RECEPTACLE WITH DATA PORT(5) & HDMI PORT(5)
- WIREMOLD - PLUGMOLD

SWITCHES:

- SINGLE POLE TOGGLE SWITCH "a" = SWITCH CONTROL
- THERMAL SWITCH - 20A., 120/ 277V. MOTOR RATED.
- SINGLE POLE TOGGLE SWITCH WITH PILOT LIGHT

WIRING:

- BRANCH CIRCUIT WIRING NUMBER OF SLASH MARKS EQUAL NUMBER OF WIRES WHEN MORE THAN 2. (NOT INCLUDING GROUND)
- HOMERUN TO PANELBOARD. NUMBER OF ARROWS = NUMBER OF CIRCUITS. NUMBER OF SLASH MARKS = NUMBER OF WIRES IF MORE THAN 2. (NOT INCLUDING GROUND) "HP" = PANEL, "1,5" = CIRCUIT NUMBERS.

MISCELLANEOUS:

- FLUSH MOUNTED PANELBOARD OR LOAD CENTER (SURFACE)
- MOTOR "5" = HORSEPOWER
- NON - FUSED DISCONNECT SWITCH "WP" = WEATHERPROOF
- LOW VOLTAGE DEVICE
- FUSIBLE DISCONNECT SWITCH "WP" = WEATHERPROOF

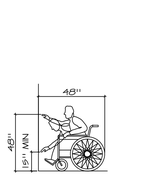
STANDARD CHECK LIST

CERTIFICATION: THE CHECKLIST BELOW INCLUDES BUT BY NO MEANS IS LIMITED TO THE ELECTRICAL SCOPE OF WORK FOR THIS PROJECT. EC SHALL CERTIFY ALL WORK LISTED HAS BEEN COMPLETED BY CHECKING OFF RESPECTIVE BOX AND SUBMITTED TO BOB'S DISCOUNT FURNITURE AS PART OF THE CLOSE-OUT PACKAGE.

DESCRIPTION OF WORK	ITEM COMPLETED
ALL LIGHTING, RECEPTACLES AND HVAC EQUIPMENT HAVE BEEN WIRED AND PROGRAMMED WITH THE AEM ENERGY MANAGEMENT SYSTEM AS SHOWN ON THE PLANS.	
ALL CONTROLLED LOADS ARE ON PROPER ZONES PER PLANS AND HAVE BEEN APPROVED BY AEM.	
ELECTRICAL OUTLETS ARE OPERATIONAL AND CONTROLLED WHERE SHOWN ON PLANS.	
TRACK LIGHTING HEADS ARE POINTED DOWN.	
POWER PROVIDED TO JUNCTION BOXES FOR EXTERIOR SIGNAGE. JUNCTION BOXES ARE LABELED AS NOTED ON PLANS.	
DOOR BUZZERS AND PUSHBUTTONS ARE INSTALLED WHERE SHOWN ON PLANS AND FUNCTIONAL.	
PANELS ARE LABELED AND TYPE WRITTEN BRANCH CIRCUIT PANEL SCHEDULES INSTALLED.	
ALL ELECTRICAL OUTLETS ARE LABELED WITH CIRCUIT DESIGNATION AS DETAILED AND NOTED ON PLANS.	
ALL LIGHTING, INCLUDING TRACK, IS INDEPENDENTLY SUPPORTED FROM THE BUILDING STRUCTURE.	
ALL CONTACTOR POLES ARE LABELED WITH BRANCH CIRCUIT DESIGNATION AS DETAILED AND NOTED ON PLANS.	
ALL CONTROLLED OUTLETS HAVE FACTORY LABELING AS DETAILED AND NOTED ON PLANS.	
TYPE B HIGH BAY LIGHT FIXTURES ARE PENDENT MOUNTED AS DETAILED AND NOTED ON PLANS.	
PENDANT MOUNTED SALES FLOOR EXIT SIGNS, FIRE ALARM HORN/ STROBES, WAP'S AND SHOPPER TRAK ARE INSTALLED AS DETAILED AND NOTED ON PLANS.	
CLOSEOUT PACKAGE HAS BEEN SUBMITTED TO THE GC, INCLUDING BUT NOT LIMITED TO THE AS-BUILT DOCUMENTS (HARD COPY AND PDF FILE), PRODUCT DATA SHEETS, OPERATING MANUALS, AEM COMMISSIONING SIGN OFF, COPY OF NFPA 72 RECORD OF COMPLETION FOR THE FIRE ALARM SYSTEM, FINAL ELECTRICAL PERMIT SIGN-OFF, FINAL FIRE ALARM SYSTEM PERMIT SIGN-OFF AND EMERGENCY LIGHTING TEST REPORT.	

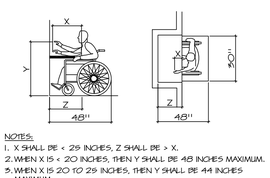
NOTES:

1. ELECTRICAL STRIKES: CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL COMPLY WITH APPLICABLE CODES AND AHJ SPECIAL REQUIREMENTS.
2. ELECTRICAL RECEPTACLE OUTLET: ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL COMPLY WITH APPLICABLE CODES AND AHJ SPECIAL REQUIREMENTS.



UNOBSTRUCTED FORWARD REACH

NO SCALE

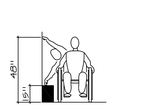


NOTES:

1. X SHALL BE < 25 INCHES, Z SHALL BE > X.
2. WHEN X IS < 20 INCHES, THEN Y SHALL BE 48 INCHES MAXIMUM.
3. WHEN X IS 20 TO 25 INCHES, THEN Y SHALL BE 44 INCHES MAXIMUM.

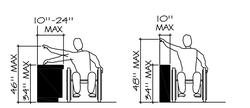
OBSTRUCTED FORWARD REACH

NO SCALE



UNOBSTRUCTED SIDE REACH

NO SCALE



OBSTRUCTED HIGH SIDE REACH

NO SCALE

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	FIXTURE DESCRIPTION	FIXTURE MANUFACTURER & PART NUMBER	VOLT	INPUT WATTS	LAMP TYPE	COMMENTS
A	2'X2' TROFFER	ENVISION #LED-BPL-2X2-5M40-SCCT	UNV	37	LED	4525 LUMENS - 35K
AE	2'X2' TROFFER - EMERGENCY	ENVISION #LED-BPL-2X2-5M40-SCCT-EMB	UNV	37	LED	WITH INTERGRAL EMERGENCY DRIVER
B	ROUND LED HIGH BAY	ATLANTIC LIGHTING #LHB96-WB8555KMSPBA	UNV	92	LED	CLEAR ACRYLIC LENS - 15' WIRE LEADS
BI	DECORATIVE CYLINDER	SPECTRUM #SPEC26-C935	UNV	98	LED	
C	1' X 8' LINEAR STRIP	TCP #TCPGPSBLIZDABACKL	UNV	69	LED	9100 LUMENS - 40K
CE	1' X 8' LINEAR STRIP - EMERGENCY	TCP #TCPGPSBLIZDABACKEB	UNV	69	LED	WITH INTERGRAL EMERGENCY DRIVER
CI	1' X 8' LINEAR STRIP WITH INTEGRAL MOTION SENSOR	TCP #TCPGPSBLIZDABACKL WITH INTEGRAL MOTION SENSOR	UNV	69	LED	9100 LUMENS - 40K
CIE	1' X 8' LINEAR STRIP WITH INTEGRAL MOTION SENSOR - EMERGENCY	TCP #TCPGPSBLIZDABACKEB WITH INTEGRAL MOTION SENSOR	UNV	69	LED	9100 LUMENS - 40K
D	1' X 4' LINEAR STRIP	TCP #TCPGPS4LIZDABACKL	UNV	40	LED	5200 LUMEN - 40K
DE	1' X 4' LINEAR STRIP - EMERGENCY	TCP #TCPGPS4LIZDABACKEB	UNV	40	LED	WITH INTERGRAL EMERGENCY DRIVER
TH	SALES FLOOR TRACK HEAD - WHITE	CONTECH #CTLBI6HLIO-P WITH 25 DEGREE LAMP	120	6	LED	LAMP: TCP #LED7MR16GLIO35CKNFL
E-TRK	CONTECH TYPE LT SINGLE CIRCUIT TRACK WITH FITTINGS & CURRENT LIMITERS - WHITE	CONTECH DEVICES AS REQUIRED FOR TYPE LT SINGLE CIRCUIT TRACK	120	-	N/A	QUANTITY AS REQUIRED
TH2	SLEEP CENTER TRACK HEAD - WHITE	CORONET #TCF-B-SO-1PW-W-120V-MED-TYPE-NA	UNV	15	LED	MOUNT ON WHITE TRACK
F	EXTERIOR RECESSED DOWNLIGHT - MODULE	ENVISION #LED-CADM-5M50-SCCT-UNV	UNV	39	LED	FIELD SET AT 39 WATTS
F	EXTERIOR RECESSED DOWNLIGHT - HOUSING	ENVISION #CLINV-NC-8-J-JBX	-	-	-	REFER TO NOTE #5
F	EXTERIOR RECESSED DOWNLIGHT - REFLECTOR	ENVISION #AFM-6-CSH	-	-	-	REFER TO NOTE #5
F	EXTERIOR RECESSED DOWNLIGHT - TRIM	ENVISION #CMD-TRIM-6-HZ-SM	-	-	-	REFER TO NOTE #5
L	DOCK LIGHT	FOSTORIA #TCP-DKL40VAA-67676TCP-LED/7PS8D50KNFL95	120	17	LED	MOUNT @ 54" AFG
M	EXTERIOR WALL SCONCE	SPECTRUM #CO524LEDT	UNV	53	LED	VERIFY EXACT HOUSING COLOR
N1	EXTERIOR WALL PACK - LARGE - CUTOFF LUMINAIRE	RAB #WPLED1C40-N	UNV	106	LED	MATCH EXISTING WALLPACK HEIGHT
N2	EXTERIOR WALL PACK - SMALL - CUTOFF LUMINAIRE	RAB #WPLED-26-N	UNV	50	LED	REFER TO NOTE #6
EXIT	THERMOPLASTIC EXIT SIGN W/ BATTERY BACK UP	ELITE #ELX-LED-6C0S-R-W	UNV	2	LED	RED LETTERS - REVISE TO GREEN WHERE NEEDED
COMBO	COMBO EXIT SIGN & EBU	ELITE #ELX-LED-715-R-W-RC	UNV	5.8	LED	RED LETTERS - REVISE TO GREEN WHERE NEEDED
RH	REMOTE DUAL HEAD EMERGENCY LIGHT - OUTDOOR	ELITE #ELM-LED-2882-OT	UNV	N/A	LED	REFER TO NOTE #4

NOTES:

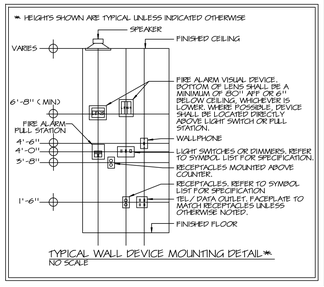
1. UNLESS OTHERWISE INDICATED, ALL LIGHT FIXTURES, INVERTERS & CONTROLS SHALL BE PURCHASED VIA BDP NATIONAL ACCOUNT VENDOR AND PAID FOR BY BDP. CONTACT INFORMATION AS SHOWN.
2. ALL LIGHTING COUNTS, INCLUDING TRACK & ASSOCIATED TRACK APPURTENANCES, SHALL BE CONFIRMED WITH BDP NATIONAL ACCOUNT VENDOR.
3. EC SHALL CONFIRM ALL VOLTAGES PRIOR TO ORDERING.
4. MOUNT OVER DOOR AT 9'-0" AFG. MOUNT UNDER CANOPY AT FRONT ENTRANCE.
5. EXISTING EXTERIOR DOWNLIGHTS TO BE REPLACED WITH NEW. EC SHALL CONTACT LIGHTING VENDOR AND ADVISE ON PROPER SIZE REFLECTOR AND TRIM AS REQUIRED TO COVER ENTIRE SOFFIT OPENING. THERE SHALL BE NO OPEN GAPS AROUND TRIM RING.
6. MOUNT AT 10' AFG OVER DOOR WHERE NO CANOPY IS INSTALLED. WHERE CANOPY IS TO BE INSTALLED, ALIGN BOTTOM OF LIGHT FIXTURE WITH BOTTOM OF CANOPY

COMPANY NAME: CAPITOL LIGHT
ADDRESS: 270 LOCUST ST. - HARTFORD CT, 06114
CONTACT: TREVOR MULLANE
PHONE #: 860-920-2595
EMAIL: TMULLANE@CAPITOLLIGHT.COM

NOTES:

1. EC SHALL REFER TO ARCHITECTURAL ELEVATION DRAWINGS FOR RECEPTACLE LOCATIONS.
2. EC SHALL REFER TO THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR EXACT EQUIPMENT LOCATIONS.
3. EC SHALL COORDINATE EXACT DATA ROOM LAYOUT WITH BDP REPRESENTATIVE PRIOR TO COMMENCING ROUGH-IN.
4. ALL RECEPTACLES SHALL BE MOUNTED @ 18" AFF UNLESS INDICATED OTHERWISE.
5. ALL OUTLETS ABOVE COUNTERTOPS IN BREAK ROOM SHALL BE MOUNTED @ 6" ABOVE BACKSPLASH.
6. ALL RECEPTACLES IN RECEIVING AND STORAGE AREAS SHALL BE MOUNTED @ 54" AFF.
7. REFER TO THE POWER DRAWING FOR ADDITIONAL POWER REQUIREMENTS.
8. ALL DEVICES AND FACE PLATES SHALL BE WHITE UNLESS INDICATED OTHERWISE. BWH ROOM DEVICE FACEPLATES SHALL BE BRUSHED STAINLESS STEEL.
9. ALL COUNTERTOP HEIGHT RECEPTACLES IN BREAK ROOM SHALL BE GFCI TYPE.
10. EC SHALL FURNISH & INSTALL POWER & CONTROL FOR NEW HYDRAULIC DOCK LEVELER. FURNISH & INSTALL THERMAL SWITCH AT MOTOR.
11. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF BATHROOM HAND DRYERS.
12. EC SHALL FURNISH AND INSTALL POWER AND SWITCH FOR WH-1 RECIRC. PUMP. FEED VIA LVPP-29.
13. EC SHALL LOCATE WATER FOUNTAIN OUTLET INSIDE EQUIPMENT ACCESS PANEL SO OUTLET IS NOT VISIBLE. FIELD VERIFY EXACT LOCATION.
14. RECEPTACLE SHALL BE LEVITON #15-885.
15. EXISTING POWER IN ELEVATOR EQUIPMENT ROOM SHALL REMAIN. BACKFEED AS REQUIRED FROM NEW OR EXISTING PANELS.

* HEIGHTS SHOWN ARE TYPICAL UNLESS INDICATED OTHERWISE



TYPICAL WALL DEVICE MOUNTING DETAIL*

NO SCALE

CERTIFICATION:

HURRICANE HILL DEVELOPMENT COMPANY PLLC
1042 HURRICANE HILL ROAD
MASON, NH 03048-1726
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Professional Electrical Engineering

BOB'S Discount Furniture

3401 W NEW HAVEN AVE.
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REVISION DATES

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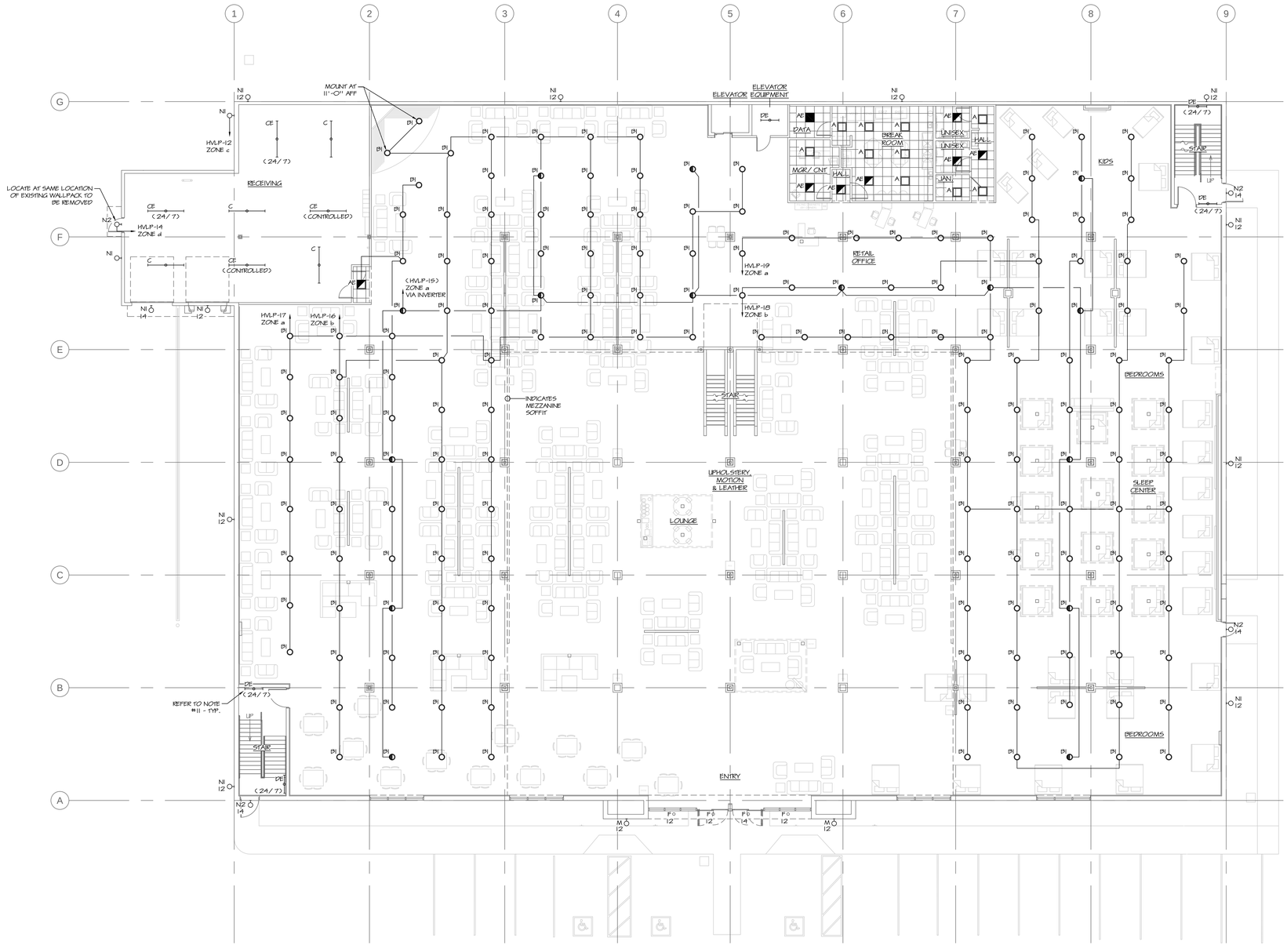
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PROJECT NUMBER
5522012

DATE
08/14/2026

SHEET TITLE
ELECTRICAL LEGEND & PART PLANS

SHEET NUMBER
E1.1



FIRST FLOOR GENERAL LIGHTING PLAN

SCALE 3/32" = 1'-0"

TYPICAL NORMAL HIGH BAY LIGHTING CONTROL CIRCUIT
N.T.S.

INVERTER SPECIFICATIONS

INVERTER WATTS	EFFICIENCY	VOLTAGE	CONNECTED LOAD*	DIMENSIONS	WEIGHT
2,800 VA/ W	98%	277	2500	24.25"W x 55"H x 10.5"D	605 LBS.

* SHOWN IN WATTS. DOES NOT INCLUDE INRUSH CURRENT

NOTES:

1. INVERTER FURNISHED BY BDF, INSTALLED AND WIRED BY EC.
2. MANUFACTURER INFORMATION BASED ON MYERS POWER PRODUCTS, INC.
3. OUTPUT BREAKER SHALL BE 20A-1P.
4. FURNISH WITH LF CLINE FILTER OPTION.
5. FLOOR MOUNT, TYPE Z SEISMIC/ RAISED FLOOR OPTION SHIPPED WITH INVERTER.

GENERAL LIGHTING NOTES:

1. TYPE B EMERGENCY LIGHT FIXTURES POWERED VIA AN INVERTER SHALL BE CONTROLLED ON THE LOAD SIDE OF THE INVERTER VIA A UL924 RELAY. UPON LOSS OF POWER, RELAY SHALL AUTOMATICALLY CLOSE AND LIGHT FIXTURES SHALL AUTOMATICALLY TURN ON.
2. ALL TYPE B LIGHT FIXTURES SHALL BE MOUNTED AT 14'-0" AFF TO BOTTOM OF FIXTURE UNLESS OTHERWISE INDICATED. ALL TYPE B1 LIGHT FIXTURE SHALL BE MOUNTED AT 10'-0" AFF TO BOTTOM OF FIXTURE UNLESS OTHERWISE INDICATED.
3. TYPE C & CE FIXTURES SHALL BE MOUNTED AT 14'-6" AFF. IF HEIGHT CAN NOT BE OBTAINED DUE TO STRUCTURAL LIMITATIONS, MOUNT SO BOTTOM OF FIXTURES ARE FLUSH TO BOTTOM OF OPEN WEB JOISTS. MOUNT TO UNDERSIDE OF OPEN WEB JOISTS SHOULD STRUCTURE DICTATE.
4. EC SHALL MOUNT TYPE N1 EXTERIOR WALL PACK @ 15' AFF.
5. EC SHALL REPLACE EXISTING DOWNLIGHTS WITH NEW. FIELD VERIFY EXACT DIMENSIONS AND SUBMIT TO LIGHTING VENDOR CAPTIVO. LIGHT IMMEDIATELY UPON AWARD OF CONTRACT, FOR PROPER ORDERING.
6. IF THERE IS AN EXTERIOR CANOPY INSTALLED OVER THE EGRESS DOOR, EC SHALL MOUNT THE TYPE N2 LIGHT FIXTURE NEXT TO THE CANOPY AND ALIGN THE BOTTOM OF THE FIXTURE WITH THE BOTTOM OF THE CANOPY.
7. TYPE "AE & CE" INTERIOR LIGHT FIXTURES WITH INTEGRAL EMERGENCY DRIVERS (24-7 & CONTROLLED) SHALL BE CIRCUITED TO UNSWITCHED SIDE OF RESPECTIVE LOCAL LIGHTING BRANCH CIRCUIT. FURNISH & INSTALL ADDITIONAL CONDUCTORS AS REQUIRED. TYPE AE FIXTURES COLORED IN HALF SHALL BE CONTROLLED, TYPE AE FIXTURES FULLY COLORED SHALL REMAIN ON 24-7.
8. EC SHALL TRAPEZE MOUNT TYPE B FIXTURES AS REQUIRED IN LOCATIONS WHERE DUCTWORK OR SPRINKLER CONFLICTS OCCUR.
9. FIRST FLOOR & STAIRWELL BACK OF HOUSE LIGHTS SHALL BE FED VIA HVLP-29. SECOND FLOOR BACK OF HOUSE LIGHTS VIA HVLP-27.
10. REFER TO ARCHITECTURAL DRAWINGS FOR SCONCES MOUNTING HEIGHTS.
11. TYPE DE STAIRWELL LIGHT FIXTURE SHALL BE WALL-MOUNTED IN SAME LOCATION AS EXISTING LIGHT FIXTURES TO BE REMOVED.
12. BRANCH CIRCUIT WIRING SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3%.

CERTIFICATION:

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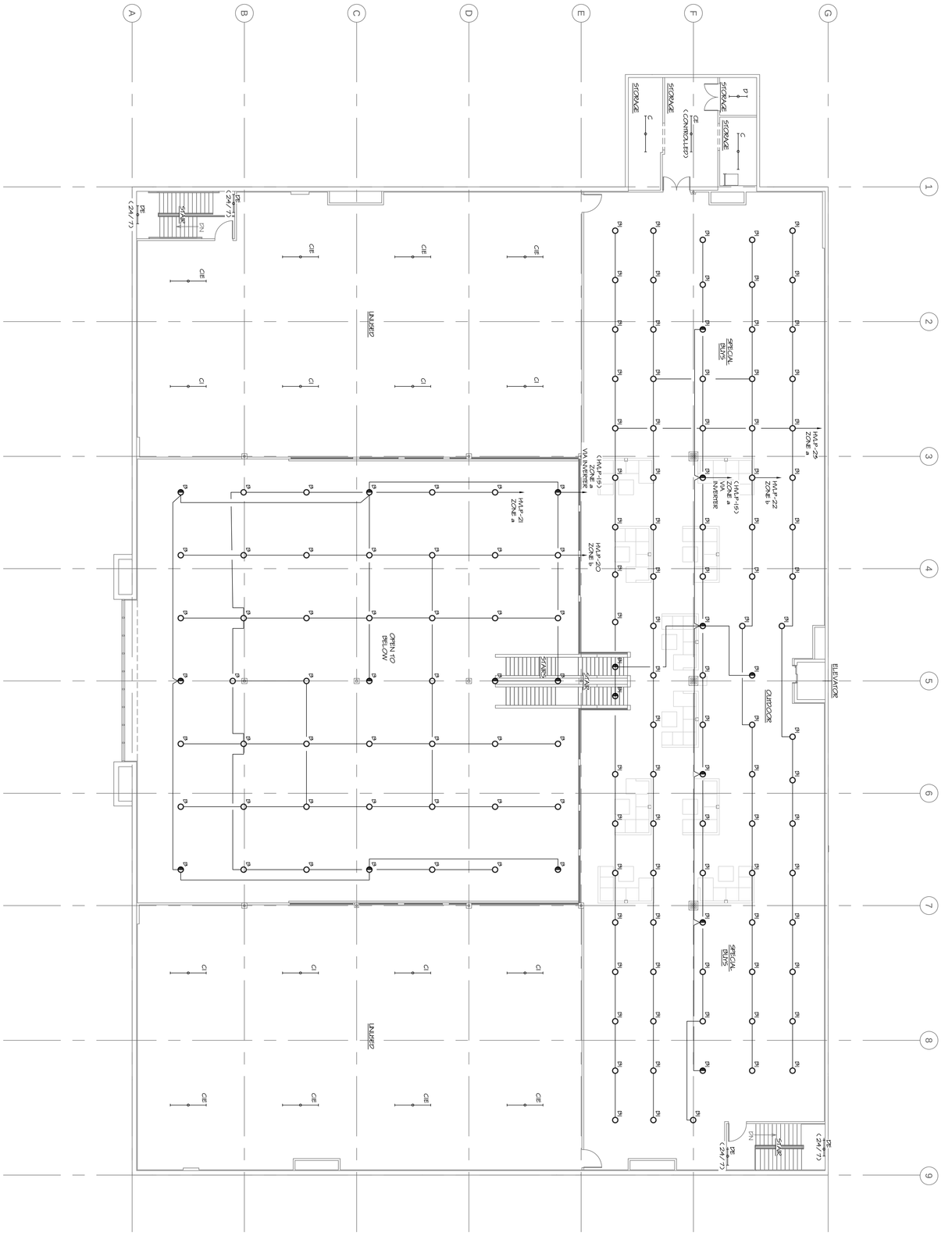
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DATE 08/14/2026

SHEET TITLE
FIRST FLOOR GENERAL LIGHTING PLAN

SHEET NUMBER
E2.1

SECOND FLOOR GENERAL LIGHTING PLAN

SCALE 3/32" = 1'-0"



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PROJECT NUMBER	5522012
DATE	08/14/2026
SHEET TITLE	SECOND FLOOR GENERAL LIGHTING PLAN
SHEET NUMBER	E2.2

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TYPE	DATE
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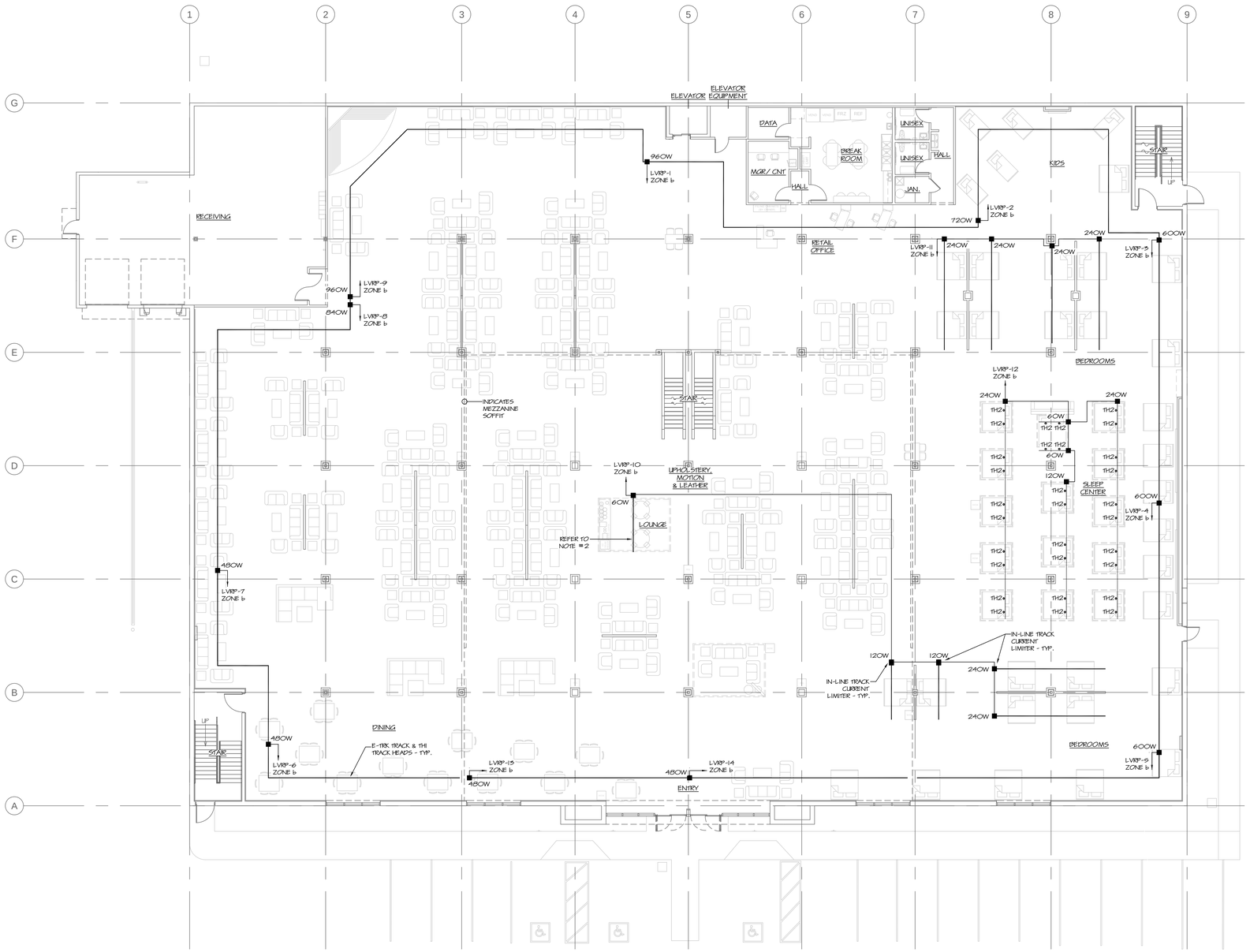
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CERTIFICATION:



FIRST FLOOR DISPLAY TRACK LIGHTING PLAN

SCALE 3/32" = 1'-0"

120V. BRANCH FEEDER SCHEDULE:

- 1 AMP: 1' - 500' ; #12 AWG
- 2 AMP: 1' - 500' ; #12 AWG
- 3 AMP: 1' - 340' ; #12 AWG
  340' - 900' ; #10 AWG
- 4 AMP: 1' - 250' ; # 12 AWG
  250' - 420' ; #10 AWG
  420' - 900' ; #8 AWG
- 5 AMP: 1' - 200' ; #12 AWG
  200' - 340' ; #10 AWG
  340' - 900' ; #8 AWG
- 6 AMP: 1' - 170' ; #12 AWG
  170' - 280' ; #10 AWG
  280' - 450' ; #8 AWG
  450' - 900' ; #6 AWG
- 7 AMP: 1' - 140' ; #12 AWG
  140' - 250' ; #10 AWG
  250' - 370' ; #8 AWG
  370' - 900' ; #6 AWG
- 8 AMP: 1' - 120' ; #12 AWG
  120' - 210' ; #10 AWG
  210' - 520' ; #8 AWG
  520' - 900' ; #6 AWG
- 9 AMP: 1' - 110' ; # 12 AWG
  110' - 190' ; #10 AWG
  190' - 280' ; #8 AWG
  280' - 490' ; #6 AWG
  490' - 900' ; #4 AWG
- 10 AMP: 1' - 100' ; #12 AWG
  100' - 170' ; #10 AWG
  170' - 260' ; #8 AWG
  260' - 400' ; #6 AWG
  400' - 900' ; #4 AWG
- 11 AMP: 1' - 90' ; #12 AWG
  90' - 150' ; #10 AWG
  150' - 250' ; #8 AWG
  250' - 370' ; #6 AWG
  370' - 900' ; #4 AWG
- 12 AMP: 1' - 80' ; #12 AWG
  80' - 140' ; #10 AWG
  140' - 210' ; #8 AWG
  210' - 520' ; #6 AWG
  520' - 900' ; #4 AWG
- 13 AMP: 1' - 70' ; #12 AWG
  70' - 130' ; #10 AWG
  130' - 200' ; #8 AWG
  200' - 310' ; #6 AWG
  310' - 480' ; #4 AWG
  480' - 900' ; #3 AWG
- 14 AMP: 1' - 70' ; #12 AWG
  70' - 120' ; #10 AWG
  120' - 180' ; #8 AWG
  180' - 290' ; #6 AWG
  290' - 440' ; #4 AWG
  440' - 900' ; #3 AWG
- 15 AMP: 1' - 60' ; #12 AWG
  60' - 110' ; #10 AWG
  110' - 170' ; #8 AWG
  170' - 270' ; #6 AWG
  270' - 410' ; #4 AWG
  410' - 900' ; #3 AWG
- 16 AMP: 1' - 60' ; #12 AWG
  60' - 100' ; #10 AWG
  100' - 160' ; #8 AWG
  160' - 250' ; #6 AWG
  250' - 380' ; #4 AWG
  380' - 470' ; #3 AWG
  470' - 900' ; #2 AWG

TRACK DISPLAY LIGHTING GENERAL NOTES:

1. FOR SALES FLOOR TRACK, EC SHALL INSTALL ONE (1) TYPE "TH1" TRACK HEAD FOR EVERY TWO (2) LINEAR FEET OF E-TRK TRACK. TH1 TRACK HEADS SHALL BE ADJUSTED TO FACE STRAIGHT DOWN. FOR SLEEP CENTER TRACK, EC SHALL INSTALL TRACK HEADS AS SHOWN. TRACK HEADS SHALL BE ADJUSTED TO FACE TOWARDS FOOT OF BED.
2. FURNISH AND INSTALL 6 TRACK HEADS ON THIS RUN OF TRACK.
3. EC SHALL READJUST TRACK HEADS AS DIRECTED BY OWNERS REPRESENTATIVE AFTER SALES FLOOR HAS BEEN SET UP.
4. EC SHALL VERIFY FINAL TRACK LAYOUT WITH BDF REPRESENTATIVE PRIOR TO COMMENCING ROUGH-IN AND TRACK INSTALLATION.
5. DIRECTION OF HOMERUN INDICATES PORTION OF TRACK RESPECTIVE CURRENT LIMITER IS FEEDING.
6. UNLESS OTHERWISE INDICATED, ALL OPEN CEILING SALES FLOOR TYPE E-TRK TRACK SHALL BE MOUNTED ON SHALLOW UNISTRUT & HUNG VIA 5/ 8" THREADED ROD. TRACK IN HIGH CEILING OPEN AREA SHALL BE MTD. @ 14' AFF. TRACK ON MEZZANINE & UNDER MEZZANINE SHALL BE MTD. @ 10' AFF. UNISTRUT & ROD SHALL BE PAINTED TO MATCH STRUCTURE ABOVE. EC SHALL OBTAIN EXACT COLOR MATCH FROM BDF REPRESENTATIVE PRIOR TO PAINTING.
7. EC SHALL TRAPEZE MOUNT E-TRK TRACK AS REQUIRED IN LOCATIONS WHERE DUCTWORK CONFLICTS OCCUR.
8. REFER TO DRAWING E4.1 FOR TRACK DIMENSIONS AND LENGTHS.
9. BRANCH CIRCUIT WIRING SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 5%.

CERTIFICATION:

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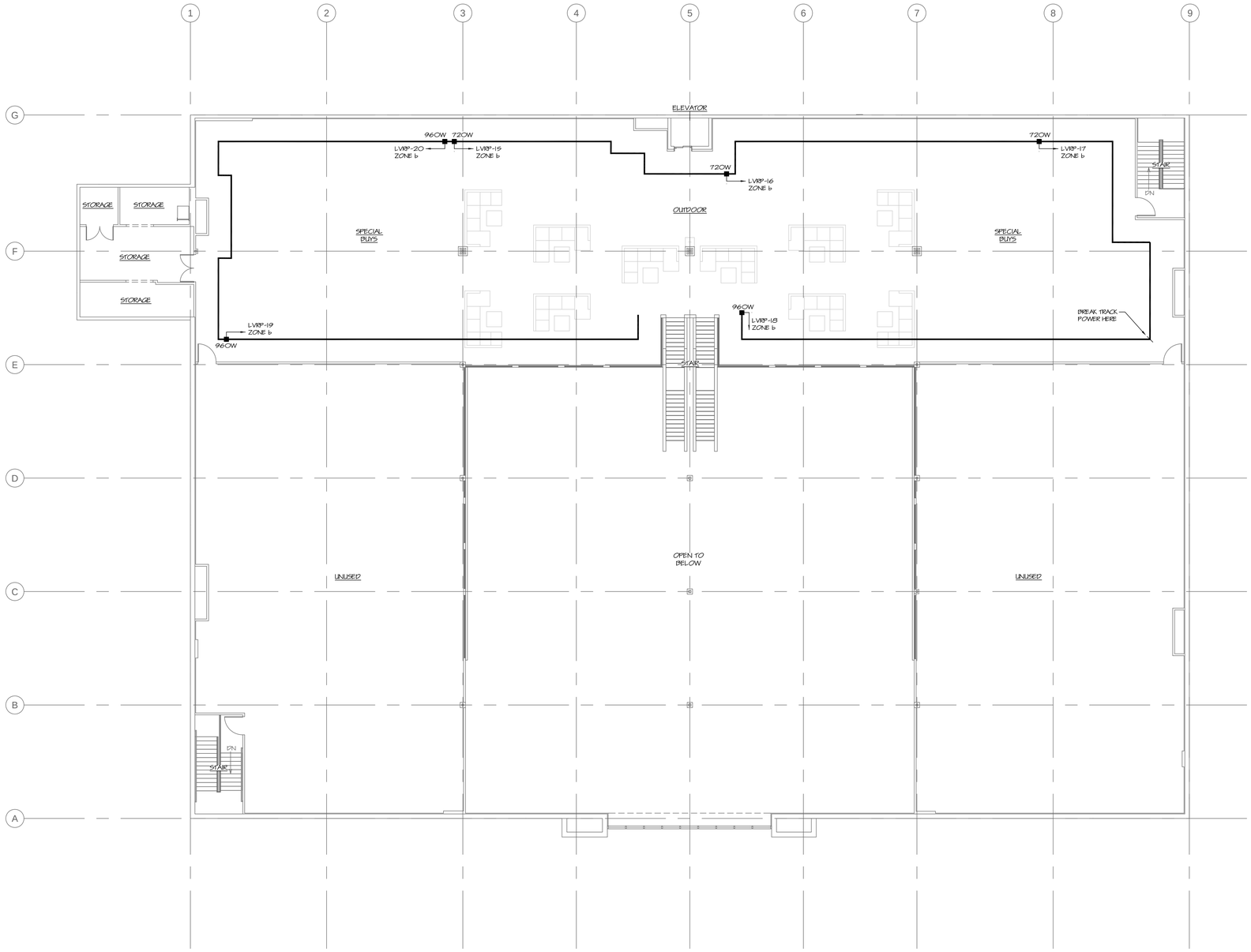
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SHEET TITLE
FIRST FLOOR DISPLAY TRACK LIGHTING PLAN

SHEET NUMBER
E3.1



SECOND FLOOR DISPLAY TRACK LIGHTING PLAN

SCALE 3/32" = 1'-0"

CERTIFICATION:

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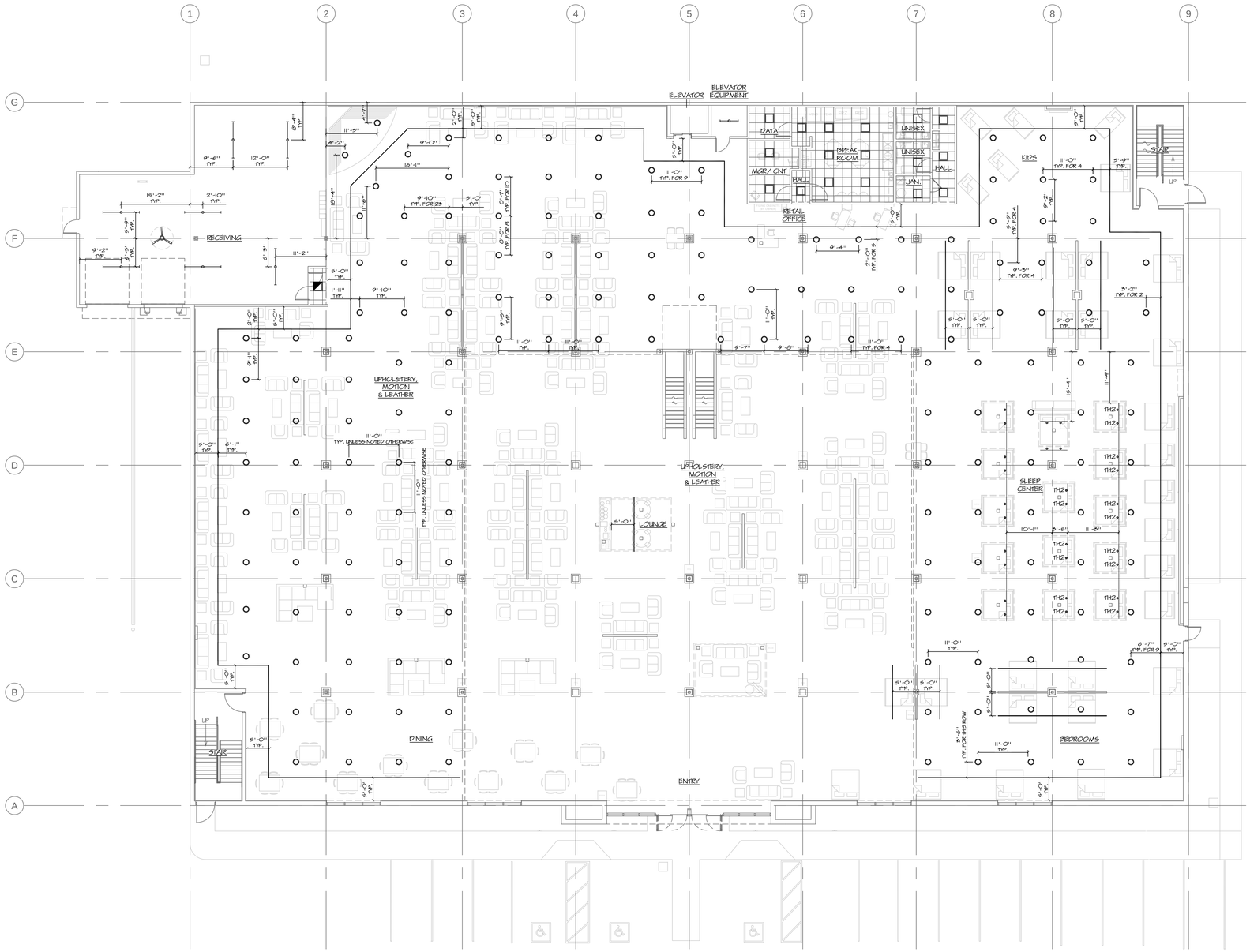
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SHEET TITLE
SECOND FLOOR DISPLAY TRACK LIGHTING PLAN

SHEET NUMBER
E3.2



FIRST FLOOR COMPOSITE LIGHTING PLAN

SCALE 3/32" = 1'-0"

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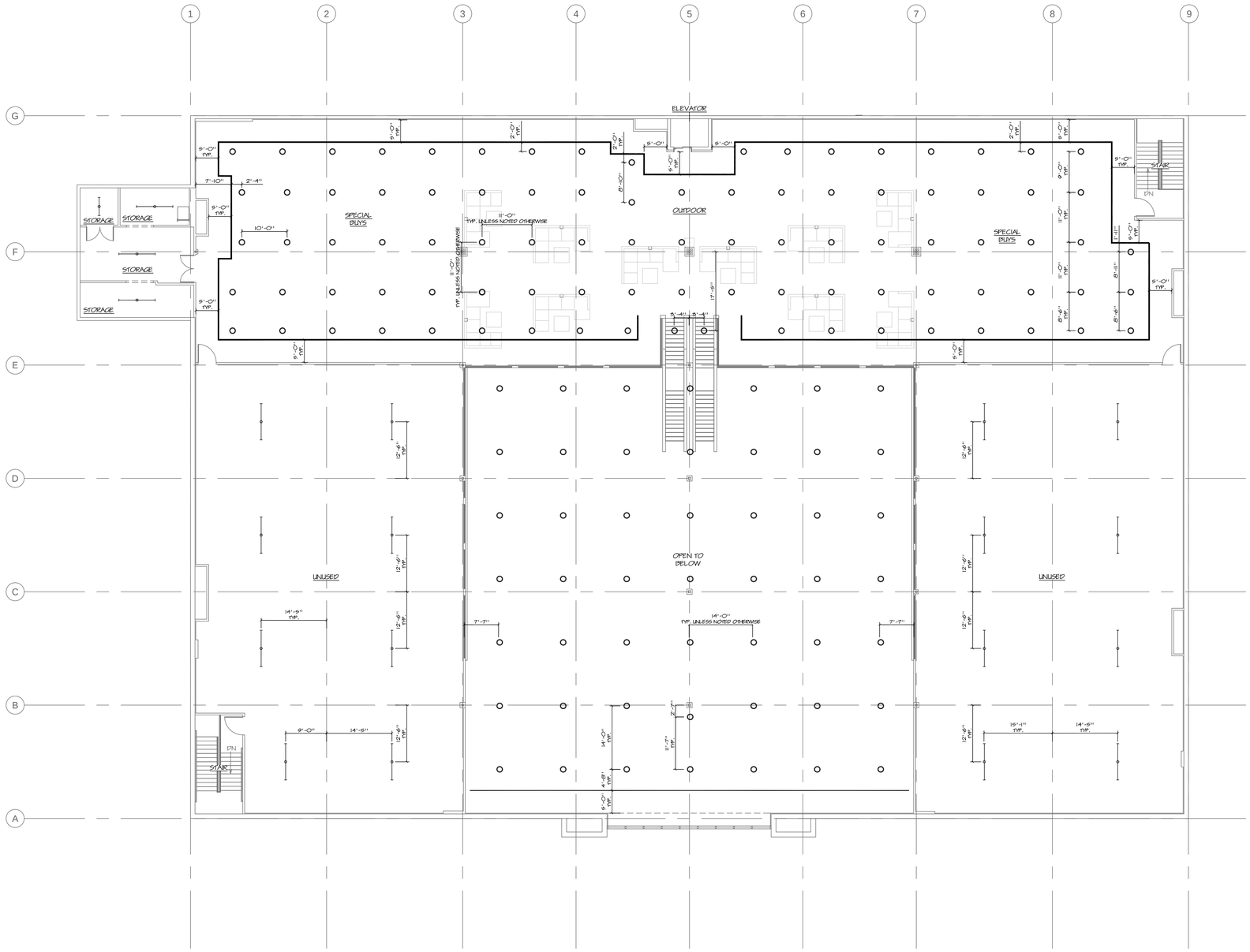
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SHEET TITLE
FIRST FLOOR COMPOSITE LIGHTING PLAN

SHEET NUMBER
E4.1



SECOND FLOOR COMPOSITE LIGHTING PLAN

SCALE 3/32" = 1'-0"

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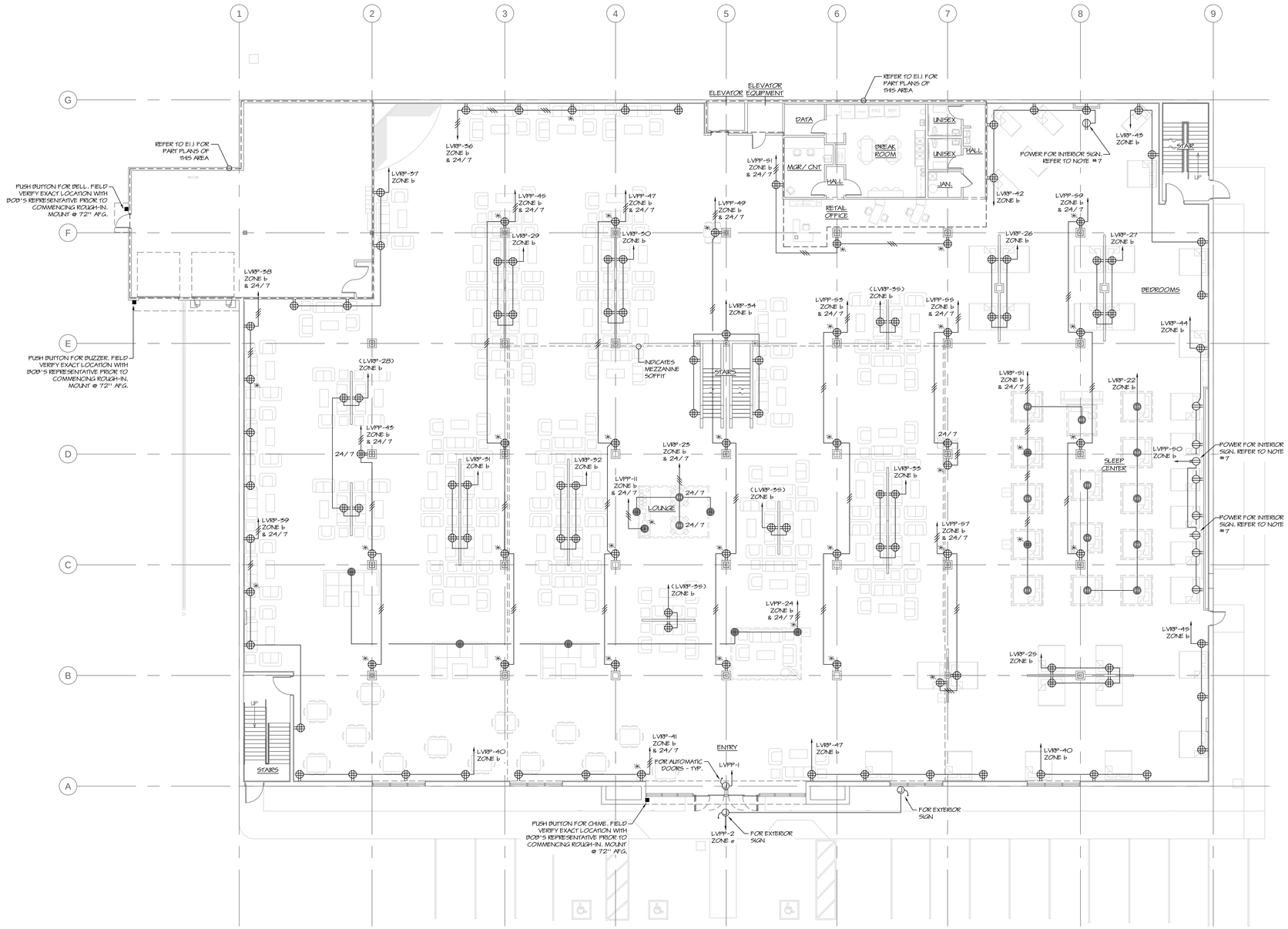
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DATE
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SHEET TITLE
SECOND FLOOR COMPOSITE LIGHTING PLAN

SHEET NUMBER
E4.2



FIRST FLOOR POWER PLAN

SCALE 3/32" = 1'-0"

120V. BRANCH FEEDER SCHEDULE:

- 1 AMP: 1' - 900' ; #12 AWG
- 2 AMP: 1' - 900' ; #12 AWG
- 3 AMP: 1' - 340' ; #12 AWG
  340' - 900' ; #10 AWG
- 4 AMP: 1' - 250' ; # 12 AWG
  250' - 420' ; #10 AWG
  420' - 900' ; #8 AWG
- 5 AMP: 1' - 200' ; #12 AWG
  200' - 340' ; #10 AWG
  340' - 900' ; #8 AWG
- 6 AMP: 1' - 170' ; #12 AWG
  170' - 280' ; #10 AWG
  280' - 450' ; #8 AWG
  450' - 900' ; #6 AWG
- 7 AMP: 1' - 140' ; #12 AWG
  140' - 250' ; #10 AWG
  250' - 570' ; #8 AWG
  570' - 900' ; #6 AWG
- 8 AMP: 1' - 120' ; #12 AWG
  120' - 210' ; #10 AWG
  210' - 520' ; #8 AWG
  520' - 900' ; #6 AWG
- 9 AMP: 1' - 110' ; # 12 AWG
  110' - 190' ; #10 AWG
  190' - 280' ; #8 AWG
  280' - 450' ; #6 AWG
  450' - 900' ; #4 AWG
- 10 AMP: 1' - 100' ; #12 AWG
  100' - 170' ; #10 AWG
  170' - 260' ; #8 AWG
  260' - 400' ; #6 AWG
  400' - 900' ; #4 AWG
- 11 AMP: 1' - 90' ; #12 AWG
  90' - 150' ; #10 AWG
  150' - 250' ; #8 AWG
  250' - 570' ; #6 AWG
  570' - 900' ; #4 AWG
- 12 AMP: 1' - 80' ; #12 AWG
  80' - 140' ; #10 AWG
  140' - 210' ; #8 AWG
  210' - 520' ; #6 AWG
  520' - 900' ; #4 AWG
- 13 AMP: 1' - 70' ; #12 AWG
  70' - 150' ; #10 AWG
  150' - 200' ; #8 AWG
  200' - 510' ; #6 AWG
  510' - 480' ; #4 AWG
  480' - 900' ; #5 AWG
- 14 AMP: 1' - 70' ; #12 AWG
  70' - 120' ; #10 AWG
  120' - 180' ; #8 AWG
  180' - 290' ; #6 AWG
  290' - 440' ; #4 AWG
  440' - 900' ; #5 AWG
- 15 AMP: 1' - 60' ; #12 AWG
  60' - 110' ; #10 AWG
  110' - 170' ; #8 AWG
  170' - 270' ; #6 AWG
  270' - 410' ; #4 AWG
  410' - 900' ; #5 AWG
- 16 AMP: 1' - 60' ; #12 AWG
  60' - 100' ; #10 AWG
  100' - 160' ; #8 AWG
  160' - 250' ; #6 AWG
  250' - 380' ; #4 AWG
  380' - 470' ; #5 AWG
  470' - 900' ; #2 AWG

POWER NOTES:

1. ALL SALES FLOOR RECEPTACLES SHALL BE CONTROLLED UNLESS NOTED OTHERWISE. ⁂ INDICATES QUAD OUTLET TO BE HALF CONTROLLED AND HALF ON 24/7. EC SHALL IDENTIFY 24/7 CONSTANT POWERED SALES FLOOR RECEPTACLES WITH A BLACK DOT STICKER. ALL CONTROLLED RECEPTACLES SHALL CONFORM WITH NEC REQUIRED LABELING REQUIREMENTS. REFER TO RECEPTACLE DETAIL.
2. EC SHALL MAKE ALL CONNECTIONS TO FRONT ENTRY AUTOMATIC DOORS AS REQUIRED. FURNISH AND INSTALL DISCONNECT SWITCH AT UNIT.
3. EC SHALL FURNISH AND INSTALL BACKBOXES, CONDUIT STUB-UPS AND PENDENT MOUNTED DEVICE SET-UPS FOR ALL LOW VOLTAGE DEVICES. LV SYSTEMS INCLUDE EMS, CCTV, CATV, BURGLAR, SOUND AND DATA. REFER TO RESPECTIVE LOW VOLTAGE SYSTEM PLANS FOR QUANTITIES AND LOCATIONS. FINAL LOCATIONS SHALL BE COORDINATED WITH RESPECTIVE BOF LV VENDOR PRIOR TO INSTALLING.
4. ALL BOXES MOUNTED ON INTERIOR EXPOSED WALLS REQUIRING SURFACE MOUNTED DEVICES SHALL BE AS FOLLOWS:
   - 4" SQUARE BOX - TOPAZ #DA4916
   - DUPLEX RECEPTACLE RAISED COVER PLATE - TOPAZ #C5491
   - QUAD RECEPTACLE RAISED COVER PLATE - TOPAZ #C2245
   - DUAL DATA DROP RAISED COVER PLATE - TOPAZ #C2259
   - QUAD DATA DROP RAISED COVER PLATE - TOPAZ #C2240
5. ALL WIRING (POWER AND LV) ON NON-CONCEALED, OPEN WALLS WITH SURFACE MOUNTED DEVICES SHALL BE INSTALLED IN EMT CONDUIT. CONDUIT SHALL EXTEND UP TO ROOF STRUCTURE ABOVE. CONDUIT, BOXES AND FACE PLATES SHALL BE PAINTED THE SAME COLOR OF THE RESPECTIVE WALL FINISH. CONDUITS SHALL BE PAINTED UP TO THE HEIGHT OF UNDERSIDE OF TYPE B LIGHT FIXTURES.
6. EC SHALL MAKE ALL CONNECTIONS AND INSTALL EXTERIOR DISCONNECT SWITCHES AT EACH SIGN AS REQUIRED FOR TWO (2) EXTERIOR SIGNS. FIELD VERIFY EXACT LOCATION OF JUNCTION BOXES WITH BOF FIELD REPRESENTATIVE PRIOR TO COMMENCING ROUGH-IN. EC SHALL LABEL ALL JUNCTION BOXES WITH CIRCUIT DESIGNATION AND NOTE "EXTERIOR SIGN".
7. REFER TO DETAIL ON DRAWING E10.1 FOR INTERIOR SIGN RECEPTACLE INSTALLATION.
8. BRANCH CIRCUIT WIRING SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 5%.

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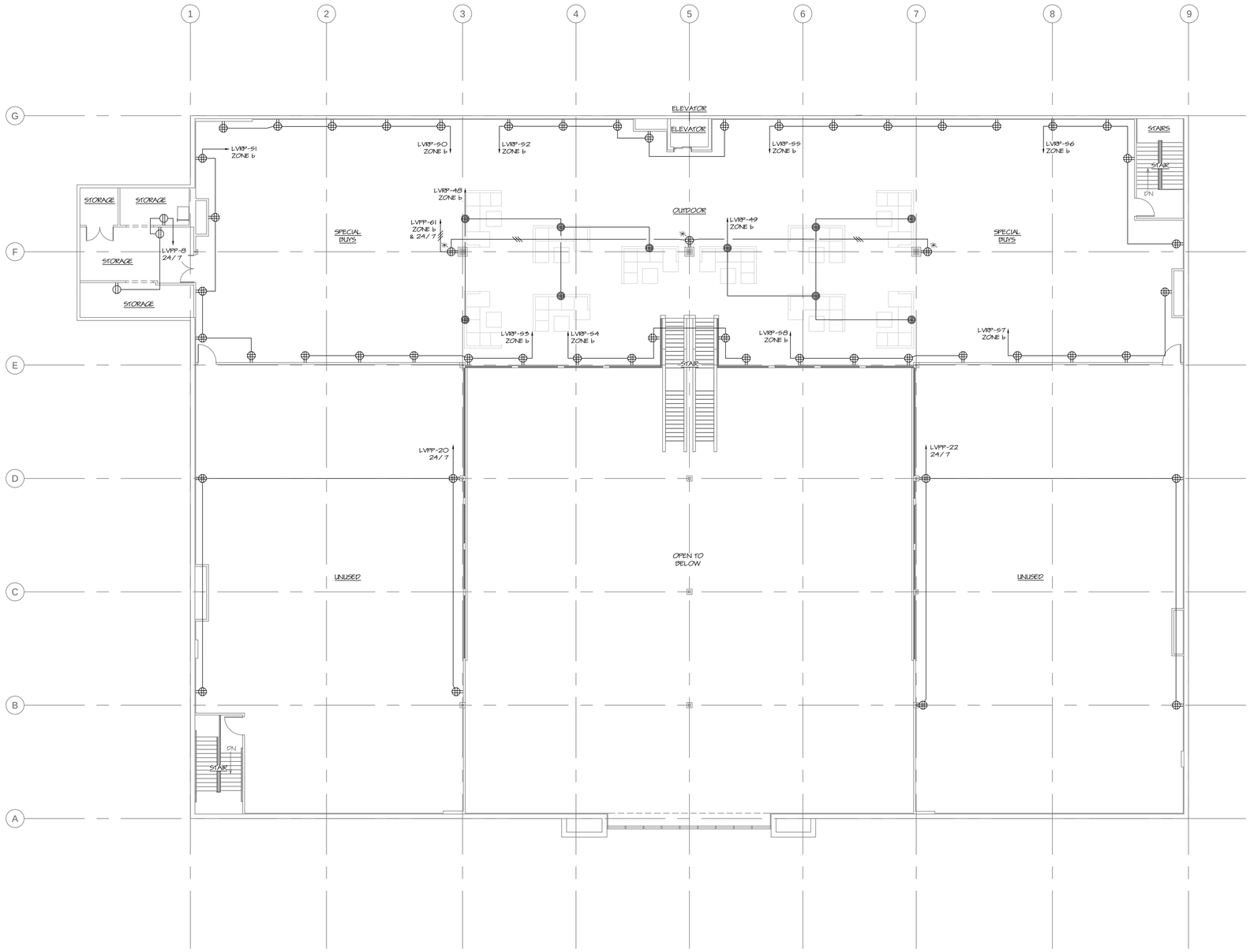
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PROJECT NUMBER
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DATE
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SHEET TITLE
FIRST FLOOR POWER PLAN

SHEET NUMBER
E5.1



SECOND FLOOR POWER PLAN

SCALE 3/32" = 1'-0"

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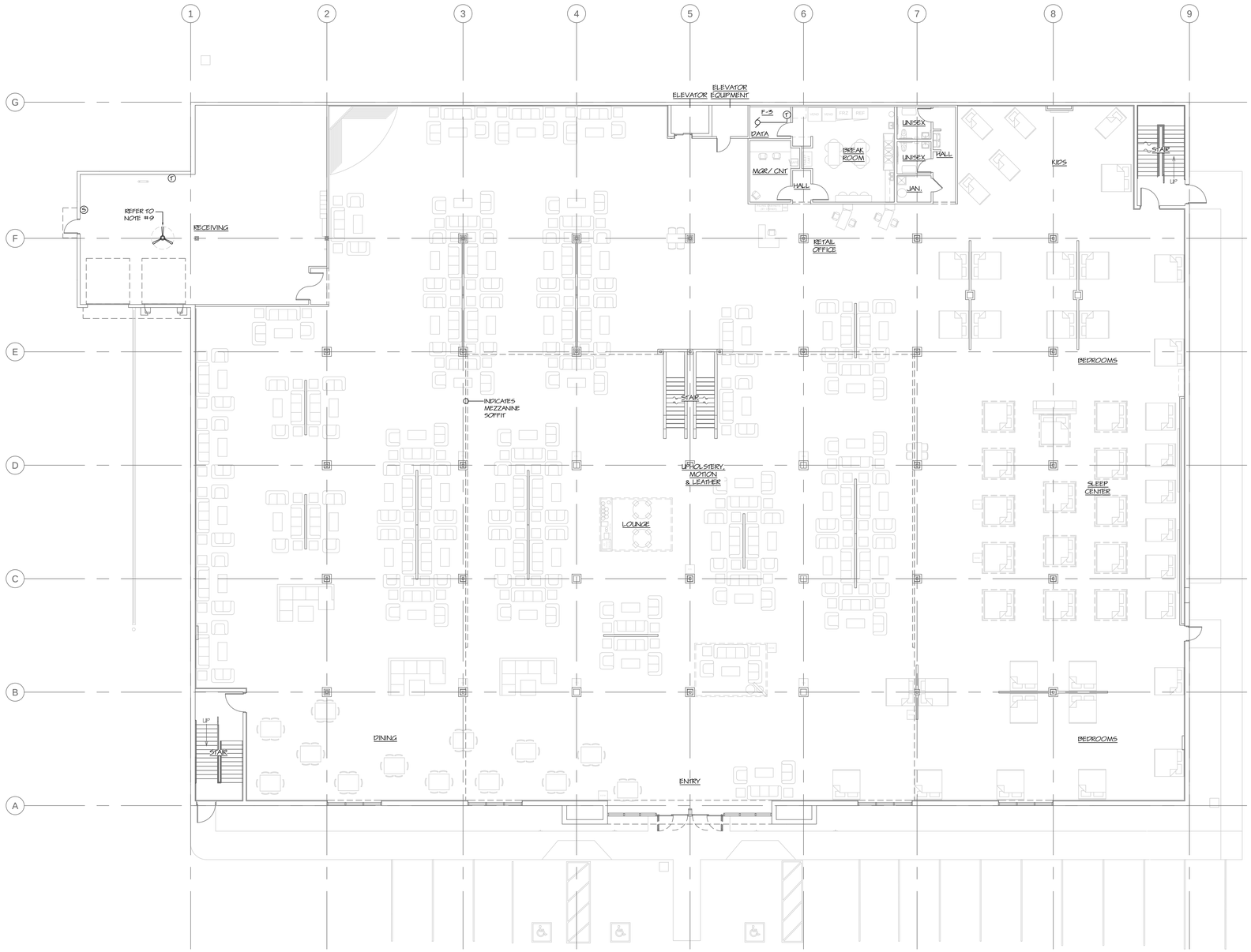
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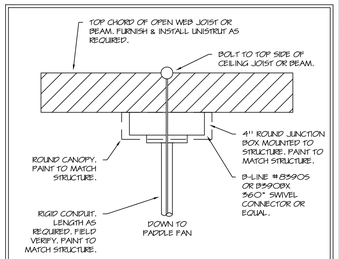
SHEET TITLE
SECOND FLOOR POWER PLAN

SHEET NUMBER
E5.2



FIRST FLOOR MECHANICAL POWER PLAN

SCALE 3/32" = 1'-0"

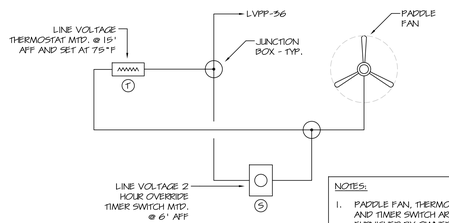


NOTES:

1. ALL MOUNTING HARDWARE SHALL BE PAINTED TO MATCH STRUCTURE.
2. BOTTOM OF PADDLE FAN SHALL BE MOUNTED AT SAME AFF HEIGHT AS BOTTOM OF RECEIVING AREA LIGHT FIXTURES.
3. EC SHALL FURNISH AND INSTALL A SAFETY CABLE FOR SECONDARY SUPPORT OF PADDLE FAN. INSTALL SAFETY CABLE INSIDE RIGID CONDUIT DOWNROD.
4. EC SHALL FURNISH AND INSTALL ALL MOUNTING COMPONENTS (BOX, CONDUIT, SWIVEL, CANOPY, ETC.) .

PADDLE FAN MOUNTING DETAIL

NO SCALE



NOTES:

1. PADDLE FAN, THERMOSTAT AND TIMER SWITCH ARE FURNISHED BY OWNER.
2. LOCATE OVERRIDE SWITCH NEXT TO GUH-1 THERMOSTAT.

PADDLE FAN CONTROL SCHEMATIC

NO SCALE

MECHANICAL NOTES:

1. LOCATION OF MECHANICAL EQUIPMENT IS APPROXIMATE ONLY. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS.
2. EC SHALL FEED EF-1 VIA LVPP-3B. CONTROL VIA EMS SYSTEM, ZONE a.
3. EC SHALL FEED F-2 VIA LVPP-1O AND CONTROL VIA THERMOSTAT. FURNISH AND INSTALL ALL LINE VOLTAGE AND CONTROL WIRING AS REQUIRED.
4. EC SHALL FURNISH AND INSTALL BACKBOXES, CONDUIT STUB-UPS AND PENDENT MOUNTED DEVICE SET-UPS FOR ALL MECHANICAL SYSTEM CONTROLS. REFER TO RESPECTIVE MECHANICAL AND EMS SYSTEM PLANS FOR QUANTITIES AND LOCATIONS. FINAL LOCATIONS SHALL BE COORDINATED WITH BDF EMS VENDOR AEM AND MECHANICAL CONTRACTOR PRIOR TO COMMENCING ROUGH-IN.
5. ALL WIRING ON NON-CONCEALED, OPEN WALLS WITH SURFACE MOUNTED DEVICES SHALL BE INSTALLED IN EMT CONDUIT. CONDUIT SHALL EXTEND UP TO ROOF STRUCTURE ABOVE. CONDUIT, BOXES AND FACE PLATES SHALL BE PAINTED THE SAME COLOR OF THE RESPECTIVE WALL FINISH. CONDUITS SHALL BE PAINTED UP TO THE HEIGHT OF UNDERSIDE OF TYPE B LIGHT FIXTURES.
6. EC SHALL CIRCUIT ALL RTU RECEPTACLES TOGETHER AND FEED FROM PANEL LVPP VIA CKT #27. BRANCH CIRCUIT WIRING SHALL BE #1O.
7. NEW RTU'S ARE FURNISHED WITH FACTORY INSTALLED INTEGRAL DISCONNECT SWITCHES AND NON-POWERED GFCI RECEPTACLES.
8. EXHAUST FAN IS FURNISHED WITH FACTORY DISCONNECTS. FIELD INSTALL AS REQUIRED.
9. EC SHALL INSTALL OWNER SUPPLIED PADDLE FANS, THERMOSTAT AND OVERRIDE SWITCH. MOUNT PADDLE FANS AT SAME AFF HEIGHT AS BOTTOM OF RECEIVING AREA LIGHT FIXTURES. FURNISH AND INSTALL ALL WIRING AS REQUIRED. EC SHALL FURNISH AND INSTALL A RIGID CONDUIT DOWNROD SUPPORT, LENGTH AS REQUIRED. INSTALL THRU-BOLT WITH LOCKING NUT FOR DOWNROD / FAN CONNECTION.
10. BRANCH CIRCUIT WIRING SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 5%.

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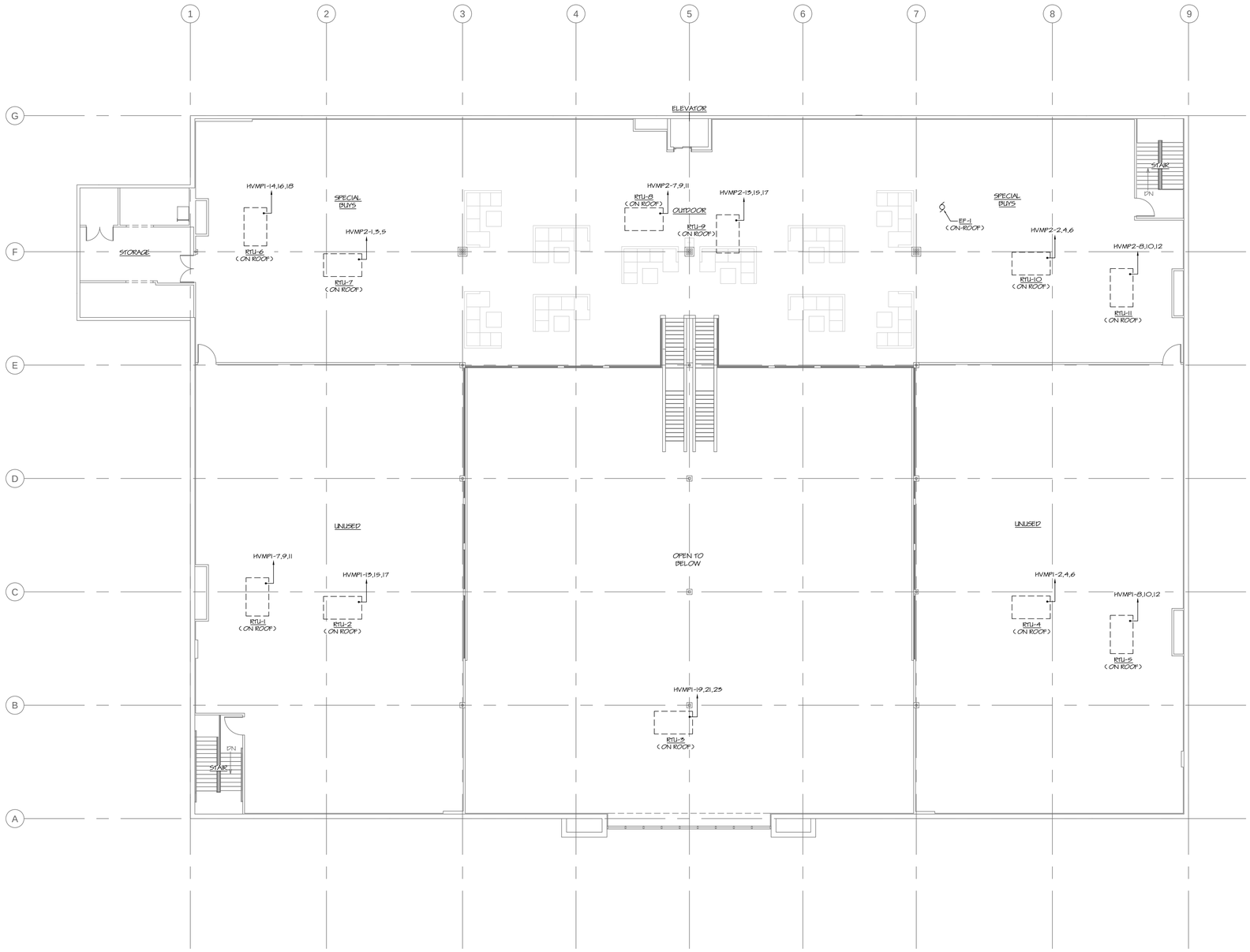
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SHEET TITLE
FIRST FLOOR MECHANICAL POWER PLAN

SHEET NUMBER
E5.3



SECOND FLOOR MECHANICAL POWER PLAN

SCALE 3/32" = 1'-0"

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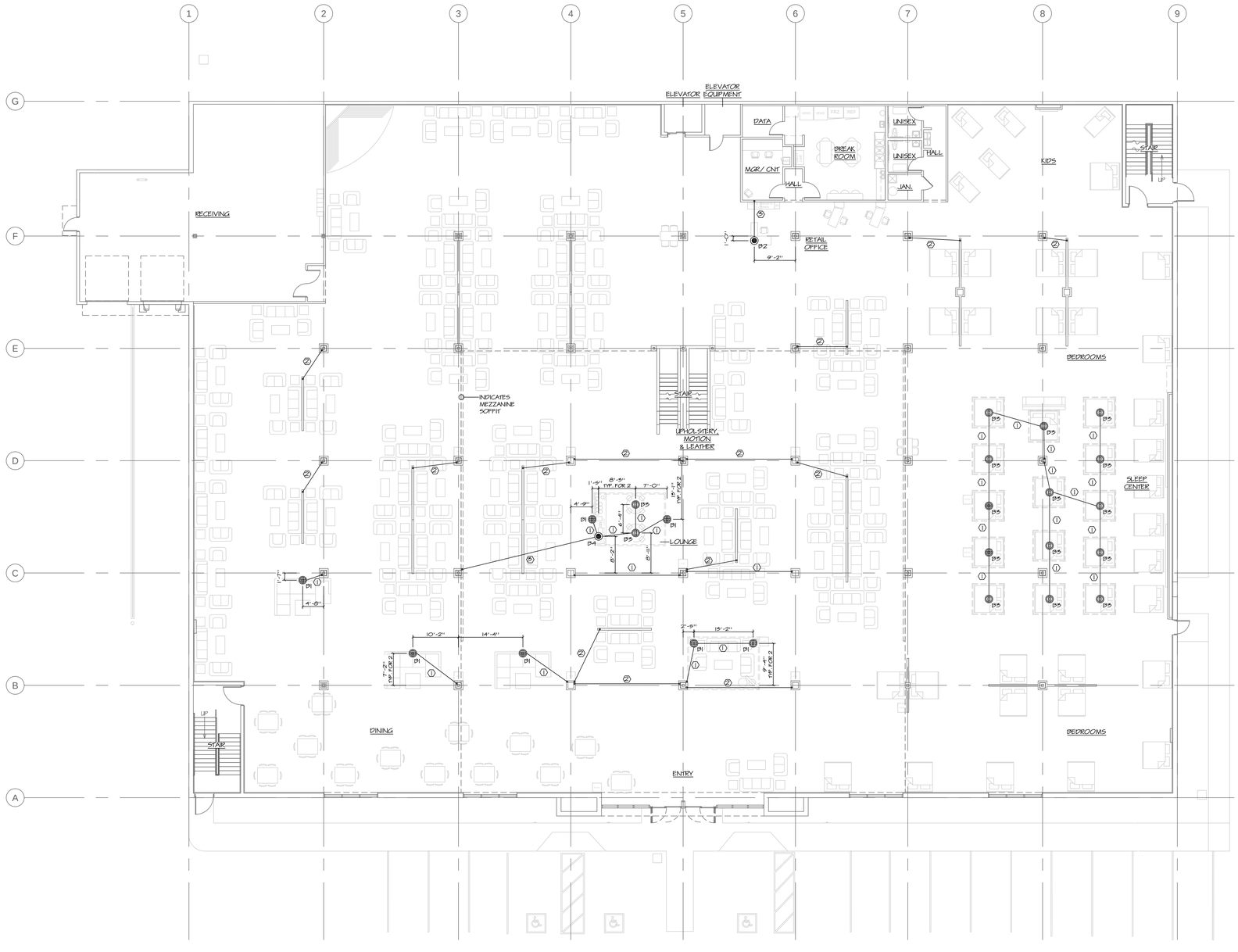
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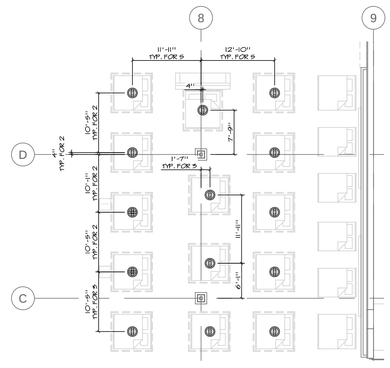
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SECOND FLOOR MECHANICAL POWER PLAN

SHEET NUMBER
E5.4



FIRST FLOOR UNDERSLAB CONDUIT PLAN

SCALE 3/32" = 1'-0"



SLEEP CENTER PART PLAN

SCALE 3/32" = 1'-0"

FLOOR BOX LEGEND:

	FLOOR MOUNTED DUPLEX RECEPTACLE
	FLOOR MOUNTED QUAD RECEPTACLE
	FLOOR MOUNTED QUAD RECEPTACLE WITH DATA PORT(S)
B1	2-GANG FLOOR BOX WITH SATIN NICKEL PLATED, FLUSH MOUNTED COVER
B2	4-GANG FLOOR BOX WITH SATIN NICKEL PLATED, FLUSH MOUNTED COVER
B3	2-GANG FLOOR BOX WITH BRASS PLATED, FLUSH MOUNTED COVER
B4	4-GANG FLOOR BOX WITH BRASS PLATED, FLUSH MOUNTED COVER

CONDUIT SCHEDULE:

1. (1) 1" C. FOR POWER
2. (2) 1" C. FOR POWER & (1) 1" C. FOR FUTURE
3. (2) 1" C. FOR POWER & (1) 1" C. FOR LV CABLE(S)
4. (3) 1" C. FOR POWER & (2) 1" C. FOR LV CABLE(S)

UNDERSLAB NOTES:

1. FLOOR RECEPTACLE LOCATIONS ARE APPROXIMATE ONLY. REFER TO BDF FURNITURE PLAN FOR EXACT LOCATIONS & QUANTITIES.
2. ALL FLOOR BOXES AND COVER PLATES SHALL BE FURNISHED BY OWNER AND INSTALLED BY EC. REFER TO LV PLANS FOR ADDITIONAL DEVICES TO BE INSTALLED IN FLOOR BOXES.
3. ALL COVER PLATES SHALL BE INSTALLED SO THAT THEY ARE FLUSH MOUNTED TO THE SURFACE OF THE FINISHED FLOOR. NO PORTION OF THE COVER PLATE SHALL SIT ABOVE THE FLOORING. EC SHALL TRIM FLOORING AROUND COVER PLATES AS REQUIRED.
4. REFER TO POWER DRAWING FOR BRANCH CIRCUIT WIRING REQUIREMENTS.
5. EC SHALL COORDINATE EXACT LOCATIONS IN FIELD WITH BDF FIELD REPRESENTATIVE PRIOR TO COMMENCING WORK.
6. ALL DIMENSIONS ARE TAKEN FROM THE CENTERLINE OF RESPECTIVE COLUMN UNLESS OTHERWISE NOTED.
7. ALL CONDUITS ROUTED VIA COLUMNS SHALL BE INSTALLED SO THAT CONDUIT IS MOUNTED DIRECTLY TO COLUMN AT THE FLOOR SLAB. NO 90 DEGREE BENDS SHALL BE VISIBLE.
8. SECOND FLOOR FLOOR BOXES SHALL BE FIRE RATED POKE-THRU'S. CORE SLAB AS REQUIRED.

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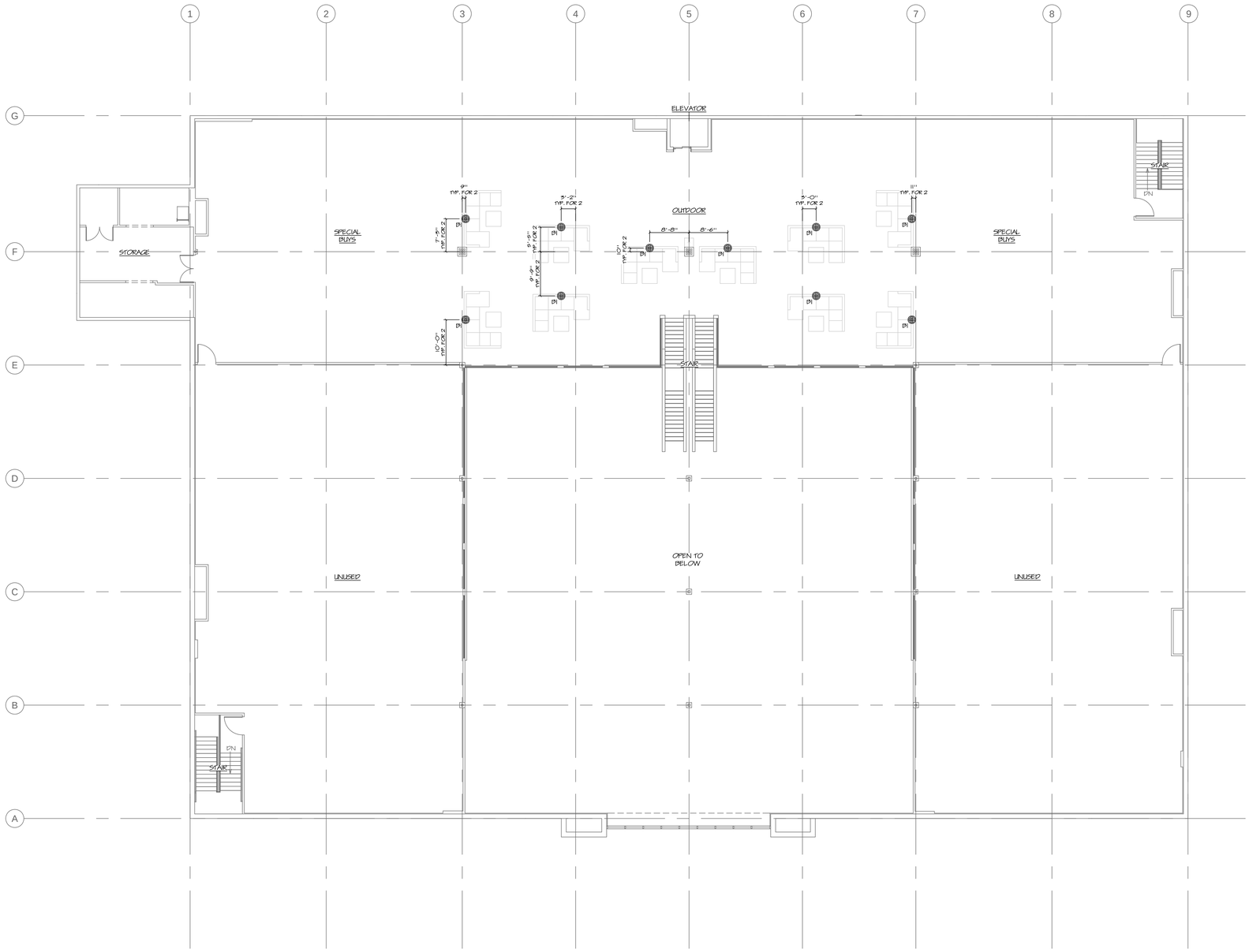
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SHEET TITLE
FIRST FLOOR UNDERSLAB CONDUIT PLAN

SHEET NUMBER
E6.1



SECOND FLOOR FLOOR BOX PLAN

SCALE 3/32" = 1'-0"

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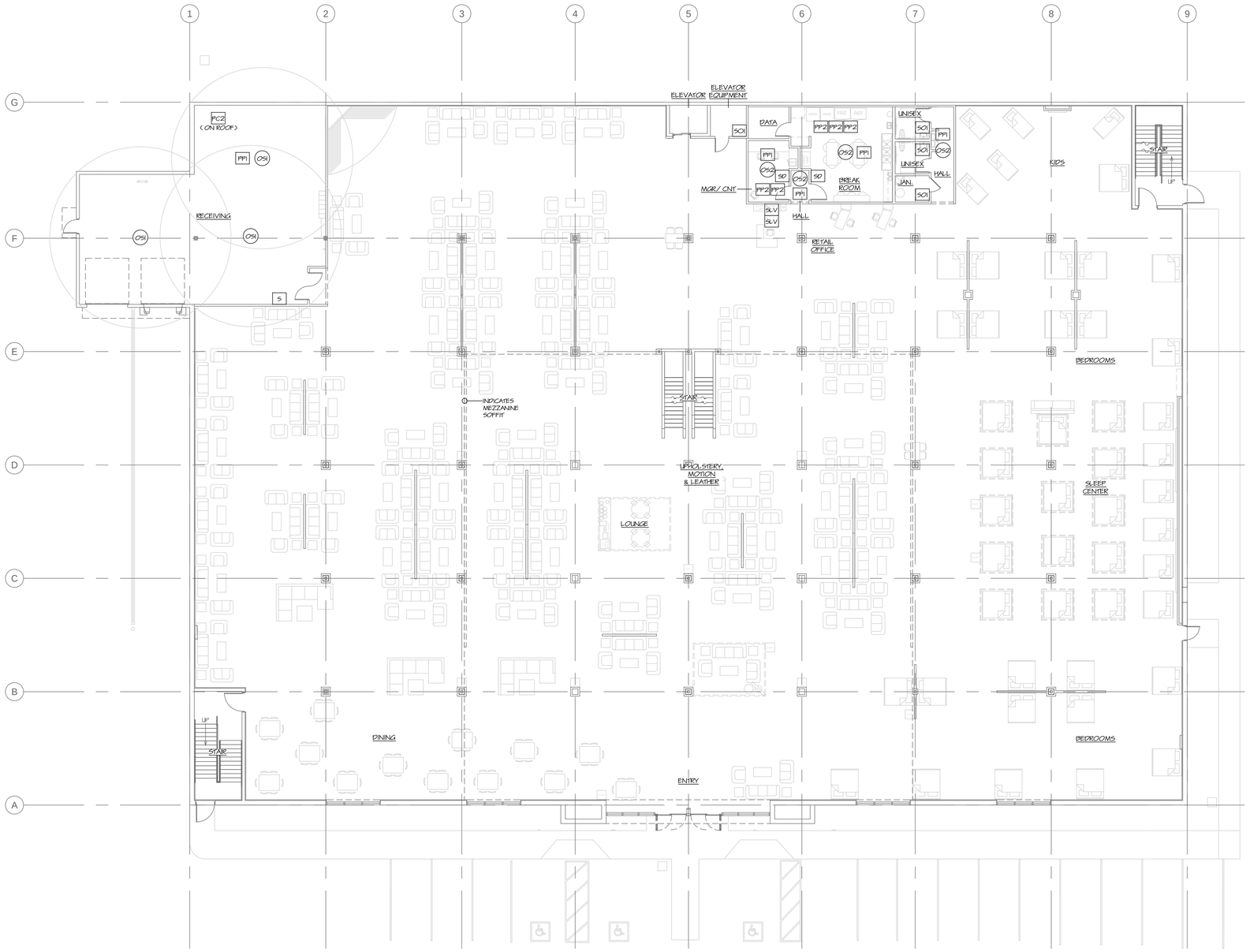
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SHEET TITLE
SECOND FLOOR FLOOR BOX PLAN

SHEET NUMBER
E6.2



FIRST FLOOR ENERGY CONTROL PLAN

SCALE 3/32" = 1'-0"

ENERGY CONTROL LEGEND

- PP1 (FOR LIGHTING)
  SENSORWORX #SWX-900-AX
  POWER/ RELAY PACK, OCCUPANCY CONTROLLED
  EXTERNAL FAULT PROTECTION
- PP2 (FOR PLUG LOAD)
  SENSORWORX #SWX-900
  POWER/ RELAY PACK, OCCUPANCY CONTROLLED
  EXTERNAL FAULT PROTECTION
- OS1
  SENSORWORX #SWX-222-I
  LOW VOLTAGE CEILING MOUNT SENSOR, PASSIVE DUAL TECHNOLOGY, LARGE MOTION / EXTENDED RANGE 360° LENS, AUXILIARY RELAY IF NEEDED
- OS2
  SENSORWORX #SWX-221-I
  LOW VOLTAGE CEILING MOUNT SENSOR, PASSIVE DUAL TECHNOLOGY, SMALL MOTION / STANDARD RANGE 360° LENS, AUXILIARY RELAY IF NEEDED
- PC2 (FOR EXTERIOR LIGHTING)
  FURNISHED BY AEM (MOUNTED ON ROOF)
- S
  SENSORWORX #SWX-801-WH (SWITCH ONLY - NON DIMMABLE)
  LOW VOLTAGE PUSH-BUTTON MOMENTARY WALL SWITCH
- SO1
  SENSORWORX #SWX-123-WH
  WALL SWITCH SENSOR, PASSIVE DUAL TECHNOLOGY.
- SO2
  SENSORWORX #SWX-123-D-WH
  WALL DIMMER SWITCH SENSOR, PASSIVE DUAL TECHNOLOGY.
- SO
  SENSORWORX #SWX-803-WH (LOCAL DIMMING SWITCH)
  LOW VOLTAGE PUSH-BUTTON DIMMING WALL SWITCH, RAISE/ LOWER DIMMING
- SLV
  FURNISHED BY EC
  MOMENTARY CONTACT WALL SWITCH FOR 2 HOUR OVERRIDE OF CUSTOMER LEVEL LIGHTS/ OUTLETS AND EXTERIOR LIGHTING/ SIGNAGE
  LEVITON #1256-W
- 120/ 277 V. 20 AMP SINGLE POLE TOGGLE SWITCH

ENERGY CONTROL NOTES:

1. ALL LIGHTING CONTROL DEVICES, UNLESS NOTED OTHERWISE, SHALL BE FURNISHED BY BDF NATIONAL ACCOUNT LIGHTING VENDOR AND PAID FOR BY BDF. REFER TO LIGHT FIXTURE SCHEDULE FOR CONTACT INFORMATION.
2. ALL LOW VOLTAGE CABLING, CONNECTORS, ETC. SHALL BE FURNISHED & INSTALLED BY EC. PRODUCT WILL NOT BE PART OF THE CONTROLS NATIONAL ACCOUNT ORDER. ALL CABLES SHALL BE TESTED & CERTIFIED.
3. REFER TO CONTROL EQUIPMENT SCHEMATICS & CUT SHEETS FOR EXACT WIRING REQUIREMENTS.
4. WIRING SHOWN IS SCHEMATIC ONLY. REFER TO CONTROL DETAILS FOR ADDITIONAL WIRING REQUIREMENTS. EC SHALL BE RESPONSIBLE FOR ALL WIRING IN ACCORDANCE WITH SENSORWORX SHOP DRAWINGS.
5. MOTION SENSORS IN RECEIVING AREA SHALL BE MOUNTED SO BOTTOM OF SENSOR ALIGNS WITH BOTTOM OF LIGHT FIXTURES.

GENERAL SYSTEM NOTES:

1. EC SHALL NOTE AND LABEL ADDRESS AND LOCATION OF EACH DEVICE AT TIME OF INSTALLATION.
2. DIAGRAMS ARE SCHEMATIC ONLY AND INDICATE THE REQUIRED GROUPING OF WIRES, NOT THE QUANTITY.
3. FOR 0-10VDC DIMMING SYSTEMS, VIOLET AND PINK CONDUCTORS ARE FOR 0-10VDC LOW VOLTAGE TERMINATIONS ONLY. DO NOT TERMINATE LINE VOLTAGE TO VIOLET AND PINK.
4. EC IS RESPONSIBLE FOR ALL CONTROL WIRING & TERMINATIONS.
5. POWER AND CONTROL CONDUCTORS MUST NOT SHARE THE SAME RACEWAY OR CONDUIT.
6. LIGHTING CONTROL EQUIPMENT MUST BE INSTALLED, MAINTAINED AND OPERATED IN AN "OFFICE CLEAN", WARM AND DRY ENVIRONMENT.
7. RELAY PANEL SCHEDULE SHALL BE LABELED INDICATING BREAKER PANEL CIRCUIT INPUTS AS WELL AS ZONES/ AREAS CONTROLLED.
8. EC SHALL VERIFY MAXIMUM CABLE LENGTHS BASED ON CONTROL SYSTEM AND SHALL NOT EXCEED CABLING PARAMETERS AND LIMITATIONS.
9. LOW VOLTAGE CABLES MUST BE INSTALLED AT LEAST 12 INCHES FROM ALL LINE VOLTAGE CONDUCTORS & EQUIPMENT.
10. ALL DETAILS ARE SCHEMATIC ONLY. REFER TO FLOOR PLAN FOR DEVICE QUANTITIES.
11. ALL DEVICES & FACEPLATES SHALL BE WHITE IN COLOR.
12. ALL SENSORWORX INDIVIDUAL ROOM CONTROLS SHALL BE INDEPENDENT. THESE DEVICES SHALL NOT BE CONNECTED TO THE CONTROL CONTACTORS.
13. POWER PACKS SHOWN ARE FOR REFERENCE ONLY. FURNISH AND INSTALL ADDITIONAL POWER PACKS AS REQUIRED FOR COMPLETE INSTALLATION.

CERTIFICATION:

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1042 HURRICANE HILL ROAD
MASON, NH 03048-1726
PHONE: 508-735-5471
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H2DC PLLC
Professional Electrical Engineering

BOB'S Discount Furniture.

3401 W NEW HAVEN AVE.
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REVISION DATES

NO.	DATE	TYPE

ISSUE DATES

TYPE	DATE
PERMIT/CONSTRUCTION SET	08/14/26

DRAWN BY

CHECKED BY

PROJECT NUMBER
5522012

DATE
08/14/2026

SHEET TITLE
FIRST FLOOR ENERGY CONTROL PLAN

SHEET NUMBER
E7.1

CERTIFICATION:

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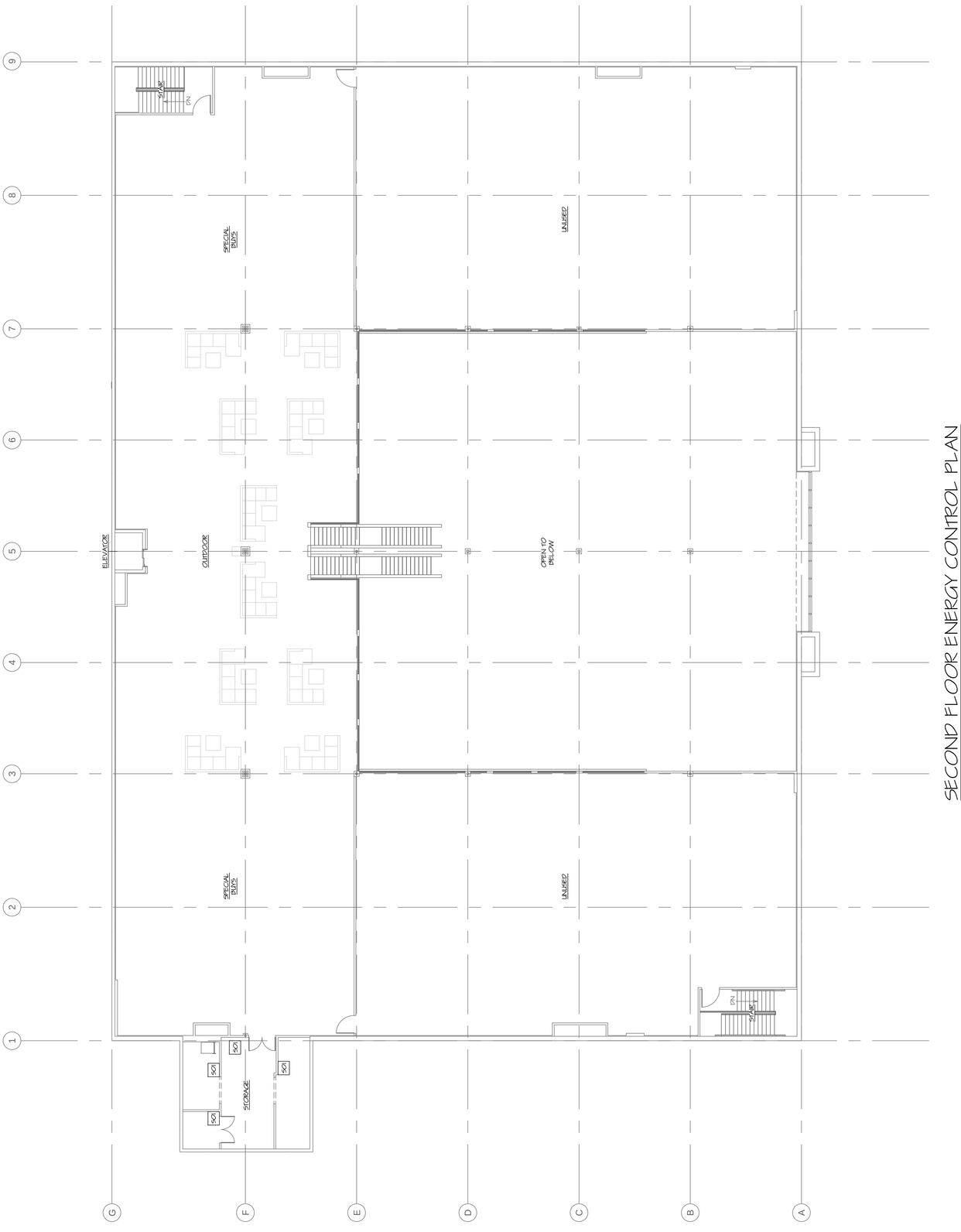
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TYPE	DATE
PERMIT/CONSTRUCTION SET	08/14/26

DRAWN BY
CHECKED BY
PROJECT NUMBER 5522012
DATE 08/14/2026
SHEET TITLE SECOND FLOOR ENERGY CONTROL PLAN
SHEET NUMBER E7.2



SECOND FLOOR ENERGY CONTROL PLAN
SCALE 3/32" = 1'-0"

LIGHTING CONTROL CONTACTOR SCHEDULE #2

CONTACTOR NUMBER	CIRCUIT NUMBER	VOLTAGE	LOAD DESCRIPTION	CONTROL LEVEL	AEM OUTPUT #
19-1	HVLP-19 **	277	SALES FLOOR LIGHTS (EM)	a	1
19-2	HVLP-17	277	SALES FLOOR LIGHTING	a	1
19-3	HVLP-19	277	SALES FLOOR LIGHTING	a	1
19-4	HVLP-21	277	SALES FLOOR LIGHTING	a	1
19-5	HVLP-23	277	SALES FLOOR LIGHTING	a	1
19-6	-	277	SPARE	a	1
16-1	HVLP-16	277	SALES FLOOR LIGHTING	b	2
16-2	HVLP-18	277	SALES FLOOR LIGHTING	b	2
16-3	HVLP-20	277	SALES FLOOR LIGHTING	b	2
16-4	HVLP-22	277	SALES FLOOR LIGHTING	b	2
16-5	-	277	SPARE	b	2
16-6	-	277	SPARE	b	2
17-1	HVLP-8	277	EXISTING PYLON SIGN	e	5
17-2	HVLP-10	277	EXISTING PYLON SIGN	e	5
17-3	-	277	SPARE	e	5
17-4	-	277	SPARE	e	5
18-1	HVLP-7	277	EXISTING SITE LIGHTING	c	4
18-2	HVLP-9	277	EXISTING SITE LIGHTING	c	4
18-3	HVLP-11	277	EXISTING SITE LIGHTING	c	4
18-4	HVLP-5	277	EXISTING SITE LIGHTING	c	4
18-5	-	277	SPARE	c	4
18-6	-	277	SPARE	c	4

** EMERGENCY CIRCUIT - CIRCUIT VIA REMOTE UL924 RELAY

LIGHTING CONTROL CONTACTOR SCHEDULE #1

CONTACTOR NUMBER	CIRCUIT NUMBER	VOLTAGE	LOAD DESCRIPTION	CONTROL LEVEL	AEM OUTPUT #
1-1	LVPP-1	120	SALES FLOOR TRACK	b	2
1-2	LVPP-2	120	SALES FLOOR TRACK	b	2
1-3	LVPP-3	120	SALES FLOOR TRACK	b	2
1-4	LVPP-4	120	SALES FLOOR TRACK	b	2
1-5	LVPP-5	120	SALES FLOOR TRACK	b	2
1-6	LVPP-6	120	SALES FLOOR TRACK	b	2
1-7	LVPP-7	120	SALES FLOOR TRACK	b	2
1-8	LVPP-8	120	SALES FLOOR TRACK	b	2
2-1	LVPP-9	120	SALES FLOOR TRACK	b	2
2-2	LVPP-10	120	SALES FLOOR TRACK	b	2
2-3	LVPP-11	120	SALES FLOOR TRACK	b	2
2-4	LVPP-12	120	SALES FLOOR TRACK	b	2
2-5	LVPP-13	120	SALES FLOOR TRACK	b	2
2-6	LVPP-14	120	SALES FLOOR TRACK	b	2
2-7	LVPP-15	120	SALES FLOOR TRACK	b	2
2-8	LVPP-16	120	SALES FLOOR TRACK	b	2
3-1	LVPP-17	120	SALES FLOOR TRACK	b	2
3-2	LVPP-18	120	SALES FLOOR TRACK	b	2
3-3	LVPP-19	120	SALES FLOOR TRACK	b	2
3-4	LVPP-20	120	SALES FLOOR TRACK	b	2
3-5	LVPP-21	120	SALES FLOOR OUTLETS	b	2
3-6	LVPP-22	120	SALES FLOOR OUTLETS	b	2
3-7	LVPP-23	120	SALES FLOOR OUTLETS	b	2
3-8	LVPP-24	120	SALES FLOOR OUTLETS	b	2
4-1	LVPP-25	120	SALES FLOOR OUTLETS	b	2
4-2	LVPP-26	120	SALES FLOOR OUTLETS	b	2
4-3	LVPP-27	120	SALES FLOOR OUTLETS	b	2
4-4	LVPP-28	120	SALES FLOOR OUTLETS	b	2
4-5	LVPP-29	120	SALES FLOOR OUTLETS	b	2
4-6	LVPP-30	120	SALES FLOOR OUTLETS	b	2
4-7	LVPP-31	120	SALES FLOOR OUTLETS	b	2
4-8	LVPP-32	120	SALES FLOOR OUTLETS	b	2
5-1	LVPP-33	120	SALES FLOOR OUTLETS	b	2
5-2	LVPP-34	120	SALES FLOOR OUTLETS	b	2
5-3	LVPP-35	120	SALES FLOOR OUTLETS	b	2
5-4	LVPP-36	120	SALES FLOOR OUTLETS	b	2
5-5	LVPP-37	120	SALES FLOOR OUTLETS	b	2
5-6	LVPP-38	120	SALES FLOOR OUTLETS	b	2
5-7	LVPP-39	120	SALES FLOOR OUTLETS	b	2
5-8	LVPP-40	120	SALES FLOOR OUTLETS	b	2
6-1	LVPP-41	120	SALES FLOOR OUTLETS	b	2
6-2	LVPP-42	120	SALES FLOOR OUTLETS	b	2
6-3	LVPP-43	120	SALES FLOOR OUTLETS	b	2
6-4	LVPP-44	120	SALES FLOOR OUTLETS	b	2
6-5	LVPP-45	120	SALES FLOOR OUTLETS	b	2
6-6	LVPP-46	120	SALES FLOOR OUTLETS	b	2
6-7	LVPP-47	120	SALES FLOOR OUTLETS	b	2
6-8	LVPP-48	120	SALES FLOOR OUTLETS	b	2
7-1	LVPP-49	120	SALES FLOOR OUTLETS	b	2
7-2	LVPP-50	120	SALES FLOOR OUTLETS	b	2
7-3	LVPP-51	120	SALES FLOOR OUTLETS	b	2
7-4	LVPP-52	120	SALES FLOOR OUTLETS	b	2
7-5	LVPP-53	120	SALES FLOOR OUTLETS	b	2
7-6	LVPP-54	120	SALES FLOOR OUTLETS	b	2
7-7	LVPP-55	120	SALES FLOOR OUTLETS	b	2
7-8	LVPP-56	120	SALES FLOOR OUTLETS	b	2
8-1	LVPP-57	120	SALES FLOOR OUTLETS	b	2
8-2	LVPP-58	120	SALES FLOOR OUTLETS	b	2
8-3	-	120	SPARE	b	2
8-4	-	120	SPARE	b	2
8-5	-	120	SPARE	b	2
8-6	-	120	SPARE	b	2
9-1	LVPP-2	120	EXTERIOR SIGNS	e	5
9-2	-	120	SPARE	e	5
10-1	LVPP-38	120	EXHAUST FAN EF-1	a	1
10-2	-	120	SPARE	a	1
11-1	LVPP-45	120	SALES FLOOR OUTLETS	b	2
11-2	LVPP-46	120	SALES FLOOR OUTLETS	b	2
11-3	LVPP-47	120	SALES FLOOR OUTLETS	b	2
11-4	LVPP-49	120	SALES FLOOR OUTLETS	b	2
11-5	LVPP-51	120	SALES FLOOR OUTLETS	b	2
11-6	LVPP-53	120	SALES FLOOR OUTLETS	b	2
12-1	LVPP-55	120	SALES FLOOR OUTLETS	b	2
12-2	LVPP-57	120	SALES FLOOR OUTLETS	b	2
12-3	LVPP-59	120	SALES FLOOR OUTLETS	b	2
12-4	LVPP-61	120	SALES FLOOR OUTLETS	b	2
12-5	LVPP-11	120	LOUNGE AREA OUTLETS	b	2
12-6	LVPP-50	120	SLEEP CENTER SIGNS	b	2
13-1	HVLP-12	277	EXTERIOR LIGHTING - GENERAL	c	4
13-2	-	-	SPARE	-	4
14-1	HVLP-14	277	EXTERIOR LIGHTING - SECURITY	d	3
14-2	-	-	SPARE	-	3

LIGHTING CONTROL SEQUENCE:

EMPLOYEE LEVEL: ON VIA SECURITY SYSTEM KEY PAD
OFF VIA SECURITY SYSTEM KEY PAD

CUSTOMER LEVEL: ON AT 9:00 AM (M-S)
OFF AT 11:00 PM (M-S)
ON AT 10:00 AM (SUNDAY)
OFF AT 8:00 PM (SUNDAY)

LIGHTING CONTROL PARAMETERS:

EMPLOYEE LEVEL - ZONE a (AEM OUTPUT #1) :
a. 1/ 2 OF SALES FLOOR TYPE B HIGHBAY LIGHTING
b. TYPE G VESTIBULE LIGHTING
c. POWER WHERE NOTED

CUSTOMER LEVEL - ZONE b (AEM OUTPUT #2) :
a. 1/ 2 OF SALES FLOOR TYPE B HIGHBAY LIGHTING
b. ALL TRACK LIGHTING
c. ALL CONTROLLED SALES FLOOR RECEPTACLES

EXTERIOR LIGHTING - GENERAL - ZONE c (AEM OUTPUT #4) :
a. ON AT DUSK - OFF AT 1:00 AM.

EXTERIOR LIGHTING - SECURITY - ZONE d (AEM OUTPUT #5) :
a. ON AT DUSK - OFF AT DAWN.

EXTERIOR SIGNAGE - ZONE e (AEM OUTPUT #5) :
a. ON AT DUSK - OFF AT DAWN.

LIGHTING CONTROL NOTES:

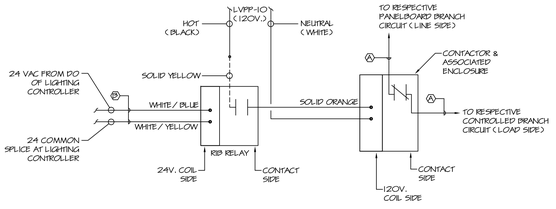
1. EC IS RESPONSIBLE TO INSTALL ALL ASPECTS OF THE LIGHTING CONTROL SYSTEM. LIGHTING CONTROL MATERIAL (UNLESS OTHERWISE NOTED) SHALL BE ORDERED VIA BOB' NATIONAL ACCOUNT VENDOR AND PAID FOR BY BOB'. REFER TO LIGHT FIXTURE SCHEDULE FOR VENDOR INFORMATION.
2. REFER TO ENERGY MANAGEMENT DRAWINGS FOR ADDITIONAL INFORMATION AND WIRING REQUIREMENTS.
3. LIGHTING SCHEDULE HOURS SHOWN ARE BASED ON STORE HOURS OF 10:00 AM - 10:00 PM MONDAY - SATURDAY AND 11:00 AM - 7:00 PM ON SUNDAYS. SHOULD STORE HOURS BE DIFFERENT, ADJUST LIGHTING SCHEDULES ACCORDINGLY. VERIFY STORE HOURS WITH BOB' REPRESENTATIVE PRIOR TO PROGRAMMING.
4. SYSTEM SHALL BE WIRED SO UPON ACTIVATION OF SECURITY SYSTEM, EMPLOYEE LEVEL LIGHTING SHALL TURN ON.
5. OVERRIDE SWITCHES SHALL BE PROGRAMMED TO TURN ON/ KEEP ON LIGHTING, POWER AND SIGNAGE FOR AN ADDITIONAL 2 HOURS. LOCATE ON BACK WALL OF SALES COUNTER AND LABEL ACCORDINGLY.
6. EC SHALL INSTALL PHOTOCELL ON ROOF VIA 9' MAST. MAST SHALL BE 1" RIGID, GALVANIZED CONDUIT. FACE PHOTOCELL TOWARDS NORTH SKY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ROOF PENETRATION.
7. EC SHALL SCHEDULE A PRE-CONSTRUCTION MEETING VIA TELEPHONE WITH AEM REP PRIOR TO STARTING WORK. OBTAIN CONTACT INFORMATION FROM BOB' PM.

NOTES:

1. RIB RELAYS SHALL BE WIRED AS NORMALLY OPEN SO IT FAILS IN THE OPEN (OFF) POSITION.
2. CONTACTORS SHALL BE WIRED AS NORMALLY CLOSED SO IT FAILS IN THE CLOSED (ON) POSITION. CONTROL COILS SHALL BE 120V.
3. UPSIZE BRANCH CIRCUIT WIRING TO ACCOMMODATE VOLTAGE DROP WHERE REQUIRED.
4. CONTACTORS ARE FURNISHED INDIVIDUALLY. EC SHALL FURNISH AND INSTALL ENCLOSURES AS REQUIRED. LOCATE RIB RELAY IN SAME ENCLOSURE NEXT TO RESPECTIVE CONTACTOR IT IS CONTROLLING. EXACT MOUNTING LOCATIONS SHALL BE DETERMINED IN FIELD.
5. EC SHALL INSTALL A SCHEDULE AT EACH CONTACTOR NOTING PANEL, CIRCUIT NUMBER, CONTROL ZONE AND LOAD DESCRIPTION.
6. DASHED WIRE INDICATES FACTORY INSTALLED.

FEEDER SCHEDULE:
(A) 2 #12 + #12 GND. - 3/ 4" C.
(B) 18/ 2 CABLE

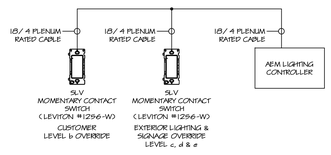
** #12 IS FOR REFERENCE ONLY. INCREASE SIZE AS REQUIRED TO ACCOMMODATE FOR VOLTAGE DROP.



TYPICAL CONTACTOR CONTROL DETAIL
N.T.S.

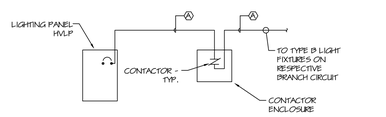
NOTES:

1. MOMENTARY CONTACT SWITCHES SHALL BE LEVITON #1296-W (WHITE) AND SHALL BE FURNISHED WITH THE CONTROLS PACKAGE.
2. SWITCHES SHALL BE INSTALLED IN A 2-GANG BACKBOX. REFER TO DRAWING E7.1 FOR LOCATIONS.
3. EC SHALL FURNISH AND INSTALL A 2-GANG WHITE FACEPLATE. LABEL SWITCHES WITH P-TOUCH.

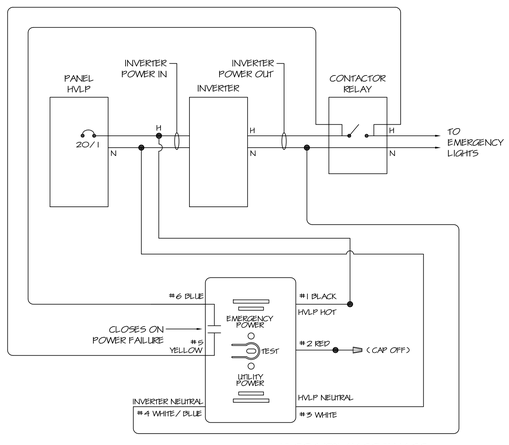


AEM LIGHTING CONTROL OVERRIDE SWITCH SCHEMATIC
N.T.S.

FEEDER SCHEDULE:
(A) BRANCH CIRCUIT WIRING



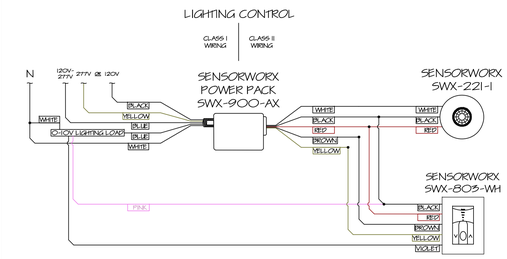
TYPICAL NORMAL HIGH BAY LIGHTING CONTROL CIRCUIT
N.T.S.



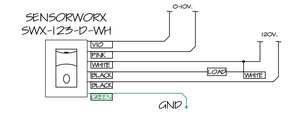
UL924 RELAY SCHEMATIC
N.T.S.

SEQUENCE OF OPERATION:

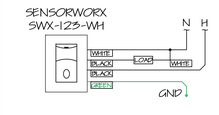
1. CIRCUIT FROM ASSIGNED BREAKER IN HVLP FEEDS INVERTER.
2. CIRCUIT LEAVES INVERTER AND IS LANDED ON LINE SIDE OF ASSIGNED CONTROL CONTACTOR.
3. CIRCUIT LEAVES LOAD SIDE OF CONTACTOR RELAY AND GOES TO ASSIGNED TYPE B LIGHT FIXTURES ON SALES FLOOR. AEM ENERGY MANAGEMENT SYSTEM WILL OPEN CONTACT DURING OFF HOURS.
4. IN CASE OF UTILITY POWER LOSS, THE UL924 RELAY BYPASSES THE INVERTER CIRCUIT OUTPUT AROUND THE CONTACTOR TO POWER THE ASSIGNED TYPE B LIGHT FIXTURES ON SALES FLOOR.



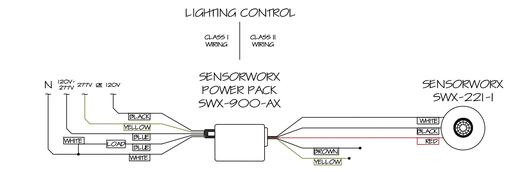
1 SENSORWORX TYPICAL BREAK ROOM SCHEMATIC
N.T.S.



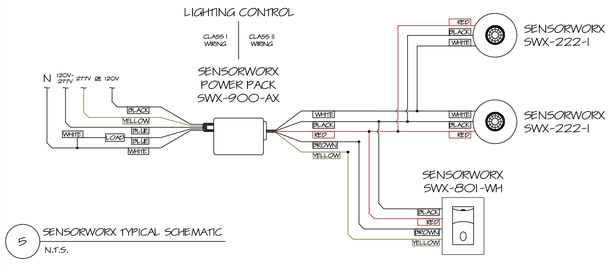
2 SENSORWORX TYPICAL SCHEMATIC
N.T.S.



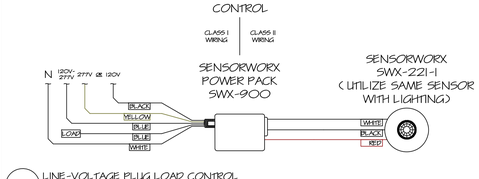
3 SENSORWORX TYPICAL SCHEMATIC
N.T.S.



4 SENSORWORX TYPICAL SCHEMATIC
N.T.S.



5 SENSORWORX TYPICAL SCHEMATIC
N.T.S.



6 LINE-VOLTAGE PLUG LOAD CONTROL
N.T.S.

NOTES:

1. ALL DIAGRAMS ARE SCHEMATIC ONLY. REFER TO FLOOR PLANS FOR EXACT DEVICE TYPE AND QUANTITIES.
2. EC SHALL COORDINATE WITH MANUFACTURERS SHOP DRAWINGS FOR ADDITIONAL INFORMATION PRIOR TO COMMENCING INSTALL.

CERTIFICATION:

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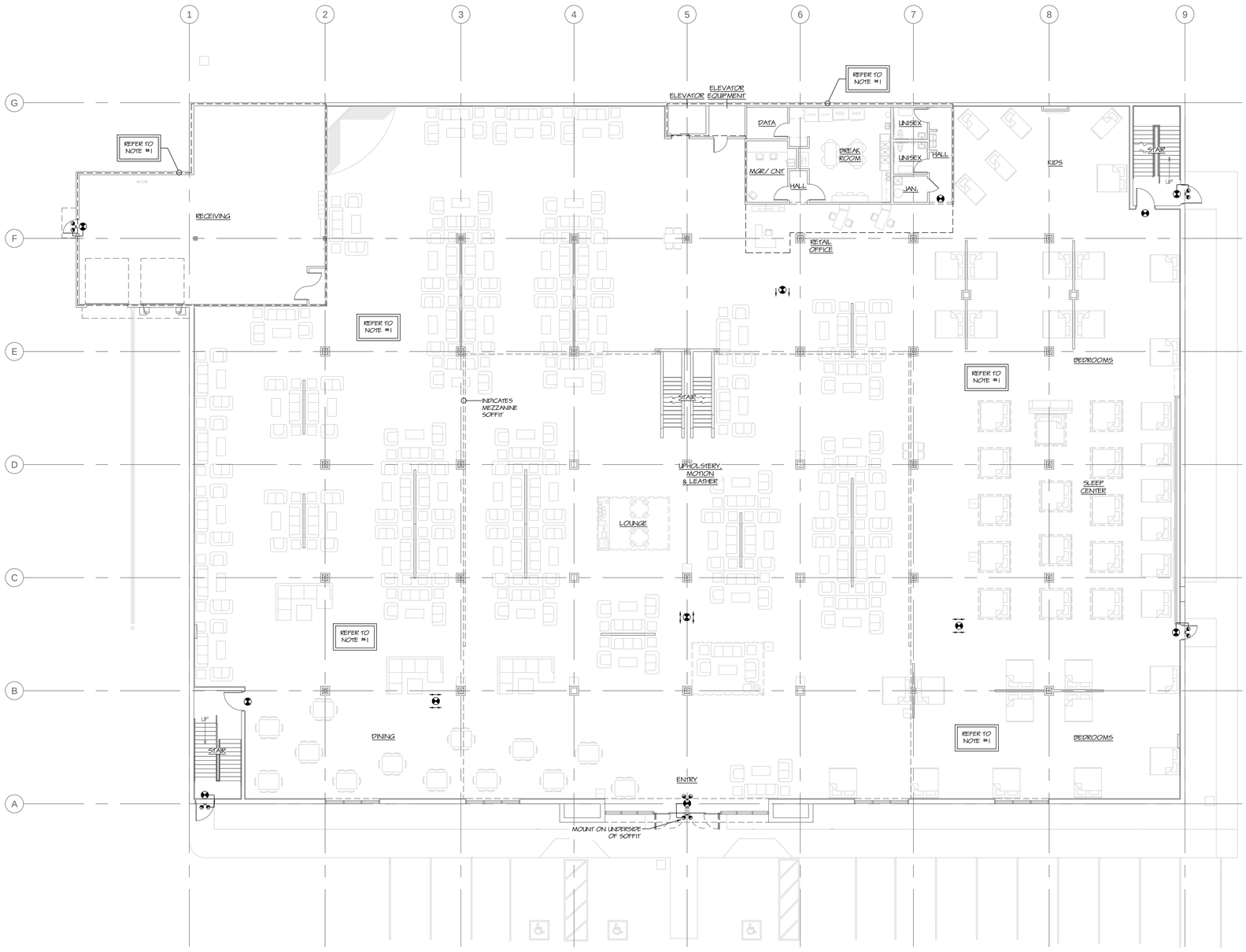
REVISION DATES

NO.	DATE	TYPE

ISSUE DATES

TYPE	DATE
PERMIT/CONSTRUCTION SET	08/14/26

DRAWN BY
CHECKED BY
PROJECT NUMBER 5522012
DATE 08/14/2026
SHEET TITLE ENERGY CONTROL DETAILS
SHEET NUMBER E7.3



FIRST FLOOR LIFE SAFETY PLAN

SCALE 3/32" = 1'-0"

NOTES:

1. ALL MOUNTING HARDWARE SHALL BE PAINTED TO MATCH STRUCTURE ABOVE.
2. CONTRACTOR SHALL OFFSET EXIT SIGNS FROM OVERHEAD LIGHTING TO AVOID VISUAL OBSTRUCTION OF EXIT SIGN.
3. BOTTOM OF EXIT SIGN SHALL BE MOUNTED AT 15' AFF FOR OPEN AREA & 9' AFF UNDER & ON SECOND FLOOR.
4. ALL EXIT SIGNS SHALL BE PENDENT MOUNTED IN AREAS WITH NO CEILING UNLESS OTHERWISE NOTED AND / OR SHOWN ON WALL. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT STORE AND CEILING LAYOUT.

SALES FLOOR EXIT SIGN PENDANT MOUNTING DETAIL

NO SCALE

LIFE SAFETY LEGEND:

- EXIT SIGN
- EXIT SIGN WITH EMERGENCY LIGHTING HEADS
- REMOTE EMERGENCY HEADS (WEATHER PROOF)

LIFE SAFETY NOTES:

1. EC SHALL REFER TO GENERAL LIGHTING DRAWING E2.1 FOR EMERGENCY LIGHTING IN THIS AREA.
2. EXIT SIGNS SHALL BE CIRCUITED TO UNSWITCHED SIDE OF THE NEAREST NORMAL (NON-EMERGENCY) LIGHT FIXTURE SERVING RESPECTIVE AREA.

CERTIFICATION:

HURRICANE HILL DEVELOPMENT COMPANY PLLC
1042 HURRICANE HILL ROAD
MASON, NH 03048-1726
PHONE: 508-735-5471
WEB: WWW.H2DC.COM

H2DC PLLC
Professional Electrical Engineering

BOB'S Discount Furniture

3401 W NEW HAVEN AVE.
MELBOURNE, FL 32904

REVISION DATES

NO.	DATE	TYPE

ISSUE DATES

TYPE	DATE
PERMIT/CONSTRUCTION SET	08/14/26

DRAWN BY

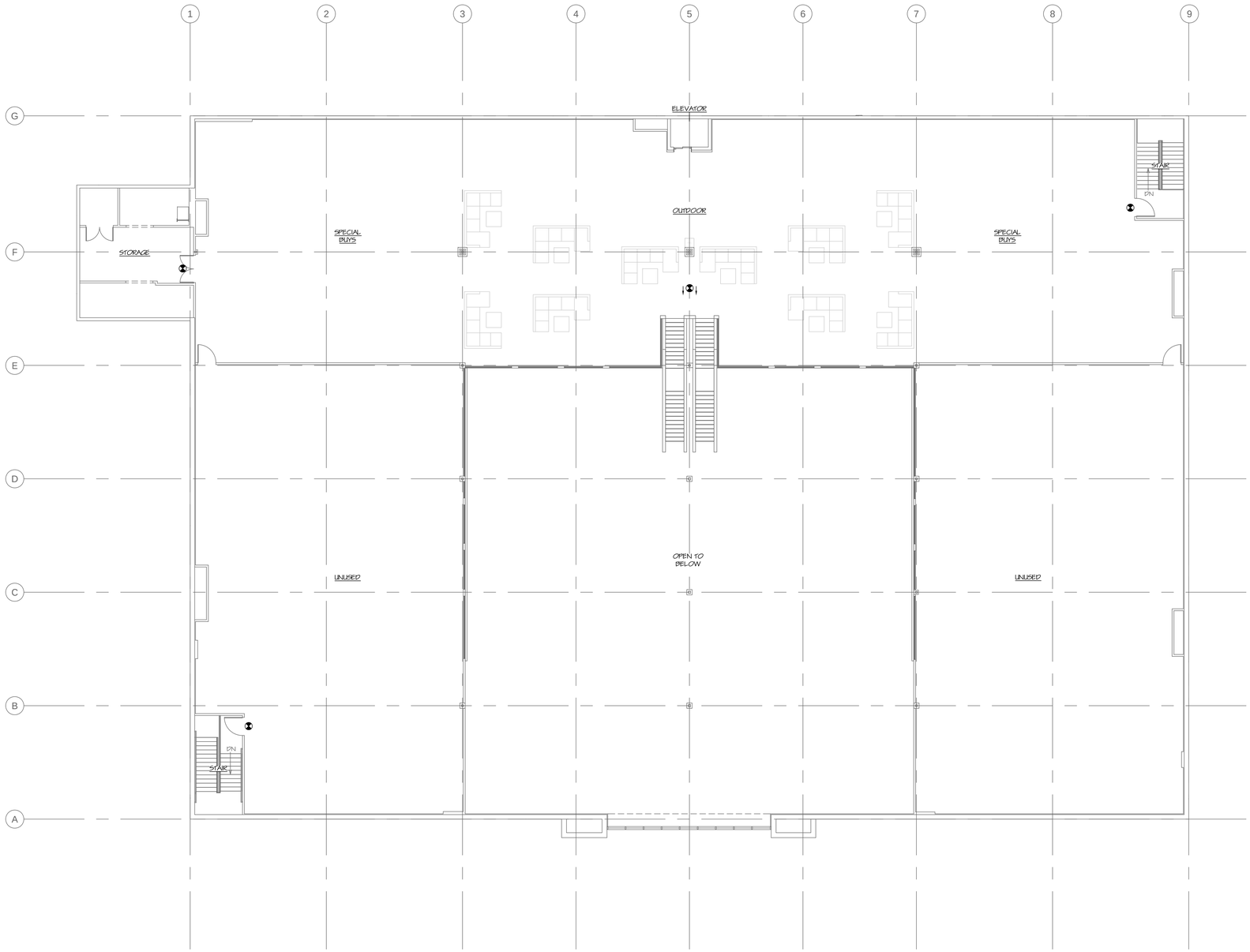
CHECKED BY

PROJECT NUMBER
5522012

DATE
08/14/2026

SHEET TITLE
FIRST FLOOR LIFE SAFETY PLAN

SHEET NUMBER
E8.1



SECOND FLOOR LIFE SAFETY PLAN

SCALE 3/32" = 1'-0"

CERTIFICATION:

HURRICANE HILL DEVELOPMENT COMPANY PLLC
1042 HURRICANE HILL ROAD
MASON, NH 03048-1726
PHONE: 508-735-5471
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REVISION DATES

NO.	DATE	TYPE

ISSUE DATES

TYPE	DATE
PERMIT/CONSTRUCTION SET	08/14/26

DRAWN BY

CHECKED BY

PROJECT NUMBER
5522012

DATE
08/14/2026

SHEET TITLE
SECOND FLOOR LIFE SAFETY PLAN

SHEET NUMBER
E8.2

PANEL "LVRP"

DOUBLE TUB — POLES: 84

VOLTAGE: 120/ 208 — AMP MAINS: 225 — PHASE: 3 PH — WIRE: 4W — MLO: - — MCB: 225A-3P

	BRANCH CIRCUIT DESCRIPTION	TRIP AMPS	POLE	TOTAL WATTS			TOTAL WATTS	POLE	TRIP AMPS	BRANCH CIRCUIT DESCRIPTION	
b	DISPLAY TRACK LIGHTING	20	1	960	1	2	720	1	20	DISPLAY TRACK LIGHTING	b
b	DISPLAY TRACK LIGHTING	20	1	600	3	4	600	1	20	DISPLAY TRACK LIGHTING	b
b	DISPLAY TRACK LIGHTING	20	1	600	5	6	480	1	20	DISPLAY TRACK LIGHTING	b
b	DISPLAY TRACK LIGHTING	20	1	480	7	8	840	1	20	DISPLAY TRACK LIGHTING	b
b	DISPLAY TRACK LIGHTING	20	1	960	9	10	780	1	20	DISPLAY TRACK LIGHTING	b
b	DISPLAY TRACK LIGHTING	20	1	960	11	12	720	1	20	DISPLAY TRACK LIGHTING	b
b	DISPLAY TRACK LIGHTING	20	1	480	13	14	480	1	20	DISPLAY TRACK LIGHTING	b
b	DISPLAY TRACK LIGHTING	20	1	720	15	16	720	1	20	DISPLAY TRACK LIGHTING	b
b	DISPLAY TRACK LIGHTING	20	1	720	17	18	960	1	20	DISPLAY TRACK LIGHTING	b
b	DISPLAY TRACK LIGHTING	20	1	960	19	20	960	1	20	DISPLAY TRACK LIGHTING	b
b	SALES FLOOR RECEPTACLES	20	1	1440	21	22	1440	1	20	SALES FLOOR RECEPTACLES	b
b	SALES FLOOR RECEPTACLES	20	1	1080	23	24	1800	1	20	SALES FLOOR RECEPTACLES	b
b	SALES FLOOR RECEPTACLES	20	1	1440	25	26	1440	1	20	SALES FLOOR RECEPTACLES	b
b	SALES FLOOR RECEPTACLES	20	1	1440	27	28	1440	1	20	SALES FLOOR RECEPTACLES	b
b	SALES FLOOR RECEPTACLES	20	1	1440	29	30	1440	1	20	SALES FLOOR RECEPTACLES	b
b	SALES FLOOR RECEPTACLES	20	1	1440	31	32	1440	1	20	SALES FLOOR RECEPTACLES	b
b	SALES FLOOR RECEPTACLES	20	1	1440	33	34	1800	1	20	SALES FLOOR RECEPTACLES	b
b	SALES FLOOR RECEPTACLES	20	1	1440	35	36	1800	1	20	SALES FLOOR RECEPTACLES	b
b	SALES FLOOR RECEPTACLES	20	1	1440	37	38	1440	1	20	SALES FLOOR RECEPTACLES	b
b	SALES FLOOR RECEPTACLES	20	1	1440	39	40	1440	1	20	SALES FLOOR RECEPTACLES	b
b	SALES FLOOR RECEPTACLES	20	1	1080	41	42	1620	1	20	SALES FLOOR RECEPTACLES	b
b	SALES FLOOR RECEPTACLES	20	1	1440	43	44	1440	1	20	SALES FLOOR RECEPTACLES	b
b	SALES FLOOR RECEPTACLES	20	1	1080	45	46	1080	1	20	SALES FLOOR RECEPTACLES	b
b	SALES FLOOR RECEPTACLES	20	1	1440	47	48	1800	1	20	SALES FLOOR RECEPTACLES	b
b	SALES FLOOR RECEPTACLES	20	1	1800	49	50	1800	1	20	SALES FLOOR RECEPTACLES	b
b	SALES FLOOR RECEPTACLES	20	1	1800	51	52	1800	1	20	SALES FLOOR RECEPTACLES	b
b	SALES FLOOR RECEPTACLES	20	1	1800	53	54	1800	1	20	SALES FLOOR RECEPTACLES	b
b	SALES FLOOR RECEPTACLES	20	1	1800	55	56	1440	1	20	SALES FLOOR RECEPTACLES	b
b	SALES FLOOR RECEPTACLES	20	1	1440	57	58	1440	1	20	SALES FLOOR RECEPTACLES	b
	SPARE	20	1	-	59	60	-	-	-	-	
	SPARE	20	1	-	61	62	-	3	20	SPARE	
	SPARE	20	1	-	63	64	-	-	-	-	
	SPACE	-	-	-	65	66	-	-	-	SPACE	
	SPACE	-	-	-	67	68	-	-	-	SPACE	
	SPACE	-	-	-	69	70	-	-	-	SPACE	
	SPACE	-	-	-	71	72	-	-	-	SPACE	
	SPACE	-	-	-	73	74	-	-	-	SPACE	
	SPACE	-	-	-	75	76	-	-	-	SPACE	
	SPACE	-	-	-	77	78	-	-	-	SPACE	
	SPACE	-	-	-	79	80	-	-	-	SPACE	
	SPACE	-	-	-	81	82	-	-	-	SPACE	
	SPACE	-	-	-	83	84	-	-	-	SPACE	

PANEL SHALL BE PHASE BALANCED TO WITHIN 10% FROM PHASE TO PHASE WITH AMPROBE AFTER ELECTRICAL INSTALLATION IS COMPLETE

TOTAL WATTS A: 24,960
B: 24,900
C: 22,620 — 145.2 AMPS

TOTAL CONNECTED LOAD: 72,480
TOTAL DEMAND LOAD: 52,265

b INDICATES CONTACTOR CONTROL ZONE LEVEL

PANEL "HVMDP1"

(EXISTING - FORMERLY PNL. AC) — POLES: 42

VOLTAGE: 277/ 480 — AMP MAINS: 600 — PHASE: 3 — WIRE: 4 — MLO: - — MCB: 600A-3P

BRANCH CIRCUIT DESCRIPTION	TRIP AMPS	POLE	TOTAL WATTS			TOTAL WATTS	POLE	TRIP AMPS	BRANCH CIRCUIT DESCRIPTION
-	-	-	20410	1	2	5534	-	-	-
PANEL HVLP	200	3	23053	3	4	5534	3	30	RTU-4
-	-	-	19800	5	6	5534	-	-	-
-	-	-	9075	7	8	6862	-	-	-
RTU-1	50	3	9075	9	10	6862	3	35	RTU-5
-	-	-	9075	11	12	6862	-	-	-
-	-	-	5534	13	14	5534	-	-	-
RTU-2	30	3	5534	15	16	5534	3	30	RTU-6
-	-	-	5534	17	18	5534	-	-	-
-	-	-	4870	19	20	-	-	-	EXISTING SPARE / SPACE
RTU-3	25	3	4870	21	22	-	-	-	EXISTING SPARE / SPACE
-	-	-	4870	23	24	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	25	26	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	27	28	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	29	30	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	31	32	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	33	34	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	35	36	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	37	38	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	39	40	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	41	42	-	-	-	EXISTING SPARE / SPACE

PANEL SHALL BE PHASE BALANCED TO WITHIN 10% FROM PHASE TO PHASE WITH AMPROBE AFTER ELECTRICAL INSTALLATION IS COMPLETE

TOTAL WATTS A: 57,819
B: 60,462
C: 57,209 — 211.5 AMPS

TOTAL CONNECTED LOAD: 175,490

PANEL "HVLP"

(EXISTING - FORMERLY PNL. H) — POLES: 42

VOLTAGE: 277/ 480 — AMP MAINS: 200 — PHASE: 3 PH — WIRE: 4W — MLO: YES — MCB: -

	BRANCH CIRCUIT DESCRIPTION	TRIP AMPS	POLE	TOTAL WATTS			TOTAL WATTS	POLE	TRIP AMPS	BRANCH CIRCUIT DESCRIPTION	
	-	-	-	1500	1	2	9434	-	-	-	
	WATER HEATER	20	3	1500	3	4	9434	3	100	EXISTING ELEVATOR PANEL	
	-	-	-	1500	5	6	9434	-	-	-	
c	EXISTING SITE LIGHTING	20	1	1600	7	8	700	1	20	EXISTING PYLON SIGN	e
c	EXISTING SITE LIGHTING	20	1	1600	9	10	700	1	20	EXISTING PYLON SIGN	e
c	EXISTING SITE LIGHTING	20	1	1600	11	12	1144	1	20	EXTERIOR LIGHTING - GENERAL	c
c	EXISTING SITE LIGHTING	20	1	1600	13	14	188	1	20	EXTERIOR LIGHTING - SECURITY	d
a	SALES FLOOR LIGHTING (EM)	20	1	2312	15	16	2030	1	20	SALES FLOOR LIGHTING	b
a	SALES FLOOR LIGHTING	20	1	2494	17	18	1280	1	20	SALES FLOOR LIGHTING	b
a	SALES FLOOR LIGHTING	20	1	2460	19	20	1564	1	20	SALES FLOOR LIGHTING	b
a	SALES FLOOR LIGHTING	20	1	2024	21	22	2160	1	20	SALES FLOOR LIGHTING	b
a	SALES FLOOR LIGHTING	20	1	2820	23	24	-	-	-	EXISTING SPARE / SPACE	
	FIRST FLOOR MISC. LIGHTING	20	1	1364	25	26	-	-	-	EXISTING SPARE / SPACE	
	SECOND FLOOR MISC. LIGHTING	20	1	1235	27	28	-	-	-	EXISTING SPARE / SPACE	
	EXISTING SPARE / SPACE	-	-	-	29	30	-	-	-	EXISTING SPARE / SPACE	
	EXISTING SPARE / SPACE	-	-	-	31	32	-	-	-	EXISTING SPARE / SPACE	
	EXISTING SPARE / SPACE	-	-	-	33	34	-	-	-	EXISTING SPARE / SPACE	
	EXISTING SPARE / SPACE	-	-	-	35	36	-	-	-	EXISTING SPARE / SPACE	
	EXISTING SPARE / SPACE	-	-	-	37	38	-	-	-	EXISTING SPARE / SPACE	
	EXISTING SPARE / SPACE	-	-	-	39	40	-	-	-	EXISTING SPARE / SPACE	
	EXISTING SPARE / SPACE	-	-	-	41	42	-	-	-	EXISTING SPARE / SPACE	

PANEL SHALL BE PHASE BALANCED TO WITHIN 10% FROM PHASE TO PHASE WITH AMPROBE AFTER ELECTRICAL INSTALLATION IS COMPLETE

TOTAL WATTS A: 20,410
B: 23,053
C: 19,800 — 86.8 AMPS

TOTAL CONNECTED LOAD: 63,263
TOTAL DEMAND LOAD: 72,004

a,b,c,d,e INDICATES CONTACTOR CONTROL ZONE LEVEL
EM INDICATES EMERGENCY CIRCUIT
✳ LOCKABLE TYPE CIRCUIT BREAKER

PANEL "LVPP"

DOUBLE TUB
ISOLATED GROUND BAR — POLES: 84

VOLTAGE: 120/ 208 — AMP MAINS: 200AF — PHASE: 3 PH — WIRE: 4W — MLO: - — MCB: 150A - 3P

	BRANCH CIRCUIT DESCRIPTION	TRIP AMPS	POLE	TOTAL WATTS			TOTAL WATTS	POLE	TRIP AMPS	BRANCH CIRCUIT DESCRIPTION	
	AUTOMATIC DOORS	20	1	600	1	2	1200	1	20	EXTERIOR SIGNS	e ✳
	CART CHARGER OUTLET	20	1	360	3	4	-	1	20	SPARE	
	BREAK ROOM FREEZER	20	1	1100	5	6	360	1	20	SALES DESK RECEPTACLES	
	BREAK ROOM REFRIGERATOR	20	1	1100	7	8	540	1	20	MISCELLANEOUS OUTLETS	
	WATER DISPENSERS	20	1	600	9	10	80	1	20	CONTROL CONTACTORS	✳
b ●	LOUNGE RECEPTACLES	20	1	780	11	12	800	1	20	GENERAL PURPOSE RECEPTACLES	
●	COFFEE MAKER RECEPTACLE	20	1	1200	13	14	900	1	20	BREAK ROOM RECEPTACLES	
●	COFFEE MAKER RECEPTACLE	20	1	1200	15	16	300	1	20	EX. ELEVATOR PIT LTG.	
✳	HAND DRYER	20	1	900	17	18	600	1	20	VENDING MACHINES	●
✳	HAND DRYER	20	1	900	19	20	1440	1	20	MISCELLANEOUS OUTLETS	
	MANAGERS OFFICE RECEPTACLES	20	1	360	21	22	1440	1	20	MISCELLANEOUS OUTLETS	
	MANAGERS OFFICE RECEPTACLES	20	1	360	23	24	-	1	20	SPARE	
	BATHROOM AREA RECEPTACLES	20	1	800	25	26	900	1	20	WATER COOLER	●
	RTU RECEPTACLES	20	1	1440	27	28	360	1	20	DATA ROOM RECEPTACLE	
✳	SECURITY PANEL	20	1	300	29	30	-	1	20	SPARE	
	RECEIVING AREA RECEPTACLES	20	1	1440	31	32	400	1	20	AEM SERVER PANEL	✳
	SPARE	20	1	-	33	34	400	1	20	AEM LIGHTING PANEL	✳
▲✳	FACP & FA COMMUNICATOR	20	1	600	35	36	360	1	20	PADDLE FAN	
	EXISTING LIFT STATION	30	2	1350	37	38	94	1	20	EXHAUST FAN EF-1	a
	-	-	-	1350	39	40	344	1	20	FAN F-2	
	EX. ELEVATOR LTG.	20	1	300	41	42	-	1	20	SPARE	
b	SALES FLOOR OUTLETS	20	1	1080	43	44	288	1	15	GUH-1	
b	SALES FLOOR OUTLETS	20	1	1440	45	46	540	1	20	RAC RECEPTACLES	
b	SALES FLOOR OUTLETS	20	1	1440	47	48	540	1	20	RAC RECEPTACLES	
b	SALES FLOOR OUTLETS	20	1	1440	49	50	480	1	20	SLEEP CENTER SIGNS	b
b	SALES FLOOR OUTLETS	20	1	1080	51	52	-	1	20	SPARE	
b	SALES FLOOR OUTLETS	20	1	1440	53	54	-	1	20	SPARE	
b	SALES FLOOR OUTLETS	20	1	1080	55	56	520	-	-	-	
b	SALES FLOOR OUTLETS	20	1	1080	57	58	520	3	20	DOCK LEVELER	
b	SALES FLOOR OUTLETS	20	1	1440	59	60	520	-	-	-	
b	SALES FLOOR OUTLETS	20	1	1080	61	62	-	-	-	-	
	SPACE	-	-	-	63	64	-	-	-	SPARE	
	SPACE	-	-	-	65	66	-	-	-	-	
	SPACE	-	-	-	67	68	-	-	-	SPACE	
	SPACE	-	-	-	69	70	-	-	-	SPACE	
	SPACE	-	-	-	71	72	-	-	-	SPACE	
	SPACE	-	-	-	73	74	360	1	20	LP RACK OUTLET	■
■	TELEPHONE BKBD OUTLET	20	1	360	75	76	600	1	20	NETWORK PRIMARY POWER	■
■	DATA ROOM OUTLET	20	1	360	77	78	600	1	20	NETWORK SECONDARY POWER	■
■	DATA ROOM OUTLET	20	1	360	79	80	-	-	-	SPACE	
■	DATA ROOM OUTLET	20	1	360	81	82	-	-	-	SPACE	
■	DATA ROOM OUTLET	20	1	360	83	84	-	-	-	SPACE	

PANEL SHALL BE PHASE BALANCED TO WITHIN 10% FROM PHASE TO PHASE WITH AMPROBE AFTER ELECTRICAL INSTALLATION IS COMPLETE

TOTAL WATTS A: 18,542
B: 14,368
C: 13,629 — 105.1 AMPS

TOTAL CONNECTED LOAD: 46,539
TOTAL DEMAND LOAD: 37,830

a,b,e INDICATES CONTACTOR CONTROL ZONE LEVEL
✳ LOCKABLE TYPE CIRCUIT BREAKER
● GFCI CIRCUIT BREAKER
■ ISOLATED GROUND CIRCUIT
▲ CIRCUIT BREAKER SHALL BE MARKED IN RED

PANEL "HVMDP3"

(EXISTING - FORMERLY PNL. DP1) — POLES: 42

VOLTAGE: 277/ 480 — AMP MAINS: 600 — PHASE: 3 PH — WIRE: 4W — MLO: - — MCB: 600A-3P

BRANCH CIRCUIT DESCRIPTION	TRIP AMPS	POLE	TOTAL WATTS			TOTAL WATTS	POLE	TRIP AMPS	BRANCH CIRCUIT DESCRIPTION
-	-	-	24960	1	2	18542	-	-	-
XFMR. #1 (PNL. LVRP)	110	3	24900	3	4	14368	3	70	XFMR. #2 (PNL. LVPP)
-	-	-	22620	5	6	13629	-	-	-
EXISTING SPARE / SPACE	-	-	-	7	8	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	9	10	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	11	12	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	13	14	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	15	16	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	17	18	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	19	20	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	21	22	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	23	24	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	25	26	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	27	28	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	29	30	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	31	32	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	33	34	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	35	36	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	37	38	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	39	40	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	41	42	-	-	-	EXISTING SPARE / SPACE

PANEL SHALL BE PHASE BALANCED TO WITHIN 10% FROM PHASE TO PHASE WITH AMPROBE AFTER ELECTRICAL INSTALLATION IS COMPLETE

TOTAL WATTS A: 43,502
B: 39,268
C: 36,249 — 143.4 AMPS

TOTAL CONNECTED LOAD: 119,019

PANEL "HVMDP2"

(EXISTING - FORMERLY PNL. DP2) — POLES: 42

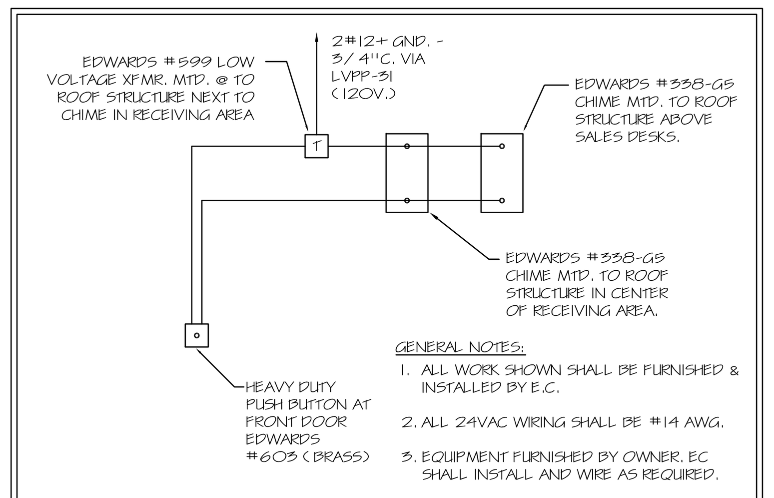
VOLTAGE: 277/ 480 — AMP MAINS: 600 — PHASE: 3 — WIRE: 4 — MLO: - — MCB: 600A-3P

BRANCH CIRCUIT DESCRIPTION	TRIP AMPS	POLE	TOTAL WATTS			TOTAL WATTS	POLE	TRIP AMPS	BRANCH CIRCUIT DESCRIPTION
-	-	-	5534	1	2	5534	-	-	-
RTU-7	30	3	5534	3	4	5534	3	30	RTU-10
-	-	-	5534	5	6	5534	-	-	-
-	-	-	5534	7	8	6862	-	-	-
RTU-8	30	3	5534	9	10	6862	3	35	RTU-11
-	-	-	5534	11	12	6862	-	-	-
-	-	-	5534	13	14	-	-	-	EXISTING SPARE / SPACE
RTU-9	30	3	5534	15	16	-	-	-	EXISTING SPARE / SPACE
-	-	-	5534	17	18	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	19	20	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	21	22	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	23	24	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	25	26	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	27	28	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	29	30	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	31	32	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	33	34	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	35	36	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	37	38	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	39	40	-	-	-	EXISTING SPARE / SPACE
EXISTING SPARE / SPACE	-	-	-	41	42	-	-	-	EXISTING SPARE / SPACE

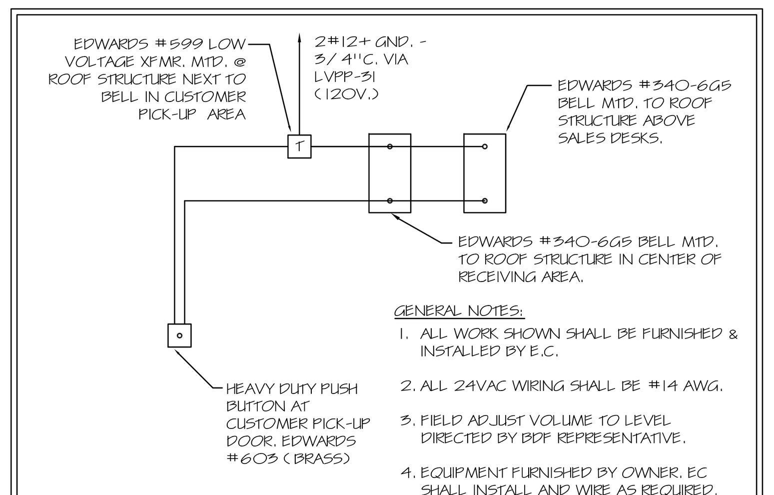
PANEL SHALL BE PHASE BALANCED TO WITHIN 10% FROM PHASE TO PHASE WITH AMPROBE AFTER ELECTRICAL INSTALLATION IS COMPLETE

TOTAL WATTS A: 28,998
B: 28,998
C: 28,998 — 104.9 AMPS

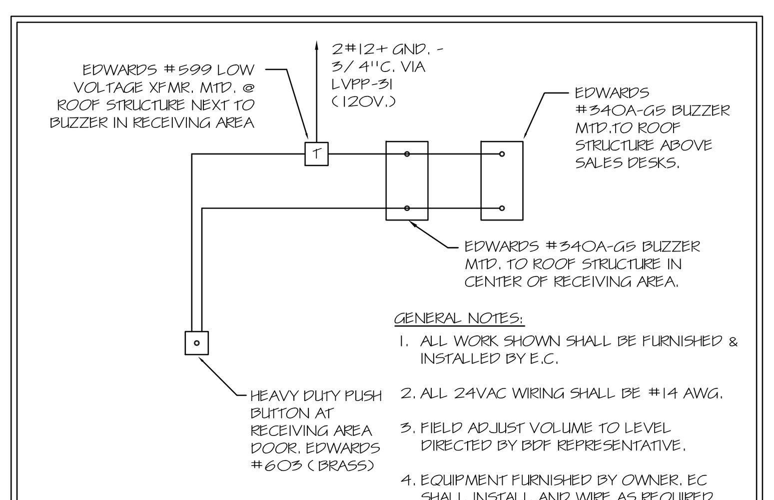
TOTAL CONNECTED LOAD: 86,994



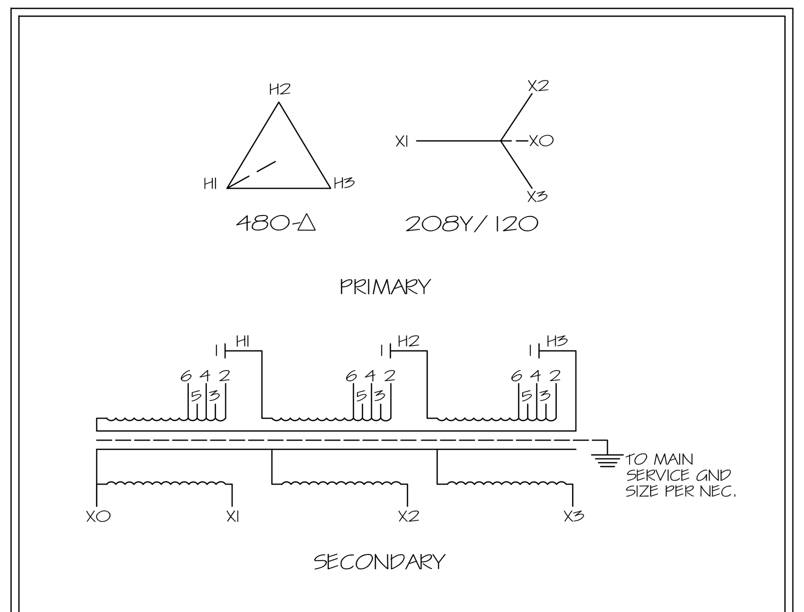
CUSTOMER PICK-UP DOOR CHIME WIRING DIAGRAM
NO SCALE



FRONT DOOR BELL WIRING DIAGRAM
NO SCALE



RECEIVING AREA DOOR BUZZER WIRING DIAGRAM
NO SCALE



DRY TYPE TRANSFORMER WIRING SCHEMATIC
NO SCALE

ELECTRICAL LOAD ANALYSIS

SERVICE VOLTAGE: 277/ 480 V. - 3P - 4W — AREA: 59,500 SF
OCCUPANCY: MERCANTILE (M)

LOAD DESCRIPTION	CONNECTED LOAD (VA)	DIVERSITY %	DESIGN LOAD (VA)	REMARKS
LIGHTING - GENERAL INTERIOR	21,647	125	27,059	
LIGHTING - TRACK	14,700	125	18,375	
LIGHTING - EXTERIOR	7,414	125	9,268	
RECEPTACLES	63,196	NEC 220-47	36,598	
MISCELLANEOUS	17,800	100	17,800	
SIGNAGE	3,800	125	4,750	
HVAC	200,421	100	200,421	
25% OF LARGEST MOTOR	(13,896)	25	3,474	5 HP HVAC UNIT COMPRESSOR
WATER HEATER	4,500	125	5,625	
TOTAL LOAD	333,478		323,370	
TOTAL AMPS	401.8		389.7	

NOTES:

1. PRIOR TO SUBMITTING BID EC SHALL VISIT THE SITE AND CONFIRM EXACT LOCATION OF EXISTING EQUIPMENT AND ASSOCIATED FEEDERS AND ADJUST LAYOUT ACCORDINGLY.
2. EQUIPMENT SHOWN OUT OF FUNCTION IS EXISTING TO REMAIN UNLESS INDICATED OTHERWISE.
3. EC SHALL FURNISH AND INSTALL NEW CIRCUIT BREAKERS IN EXISTING PANELS HVMDP1, HVMDP2, HVMDP3 AND HVLP AS REQUIRED. EC SHALL FURNISH AND INSTALL NEW CIRCUIT BREAKERS IN EXISTING PANELS AS REQUIRED. EXISTING BREAKERS NOT USED SHALL REMAIN AS FUTURE SPARES.
4. ANY EXISTING BRANCH CIRCUITS THAT ARE TO REMAIN SHALL BE BACKFED FROM NEW PANELBOARDS. FURNISH & INSTALL ADDITIONAL CIRCUIT BREAKERS AS REQUIRED.
5. FOR FEEDER TYPE C, CONNECT ISOLATED GROUND TO THE ISOLATED GROUND BAR IN PANEL LVPP. ISOLATED GROUND CONDUCTOR SHALL BE INSULATED.
6. NEW EQUIPMENT SHALL MATCH EXISTING MANUFACTURER, STYLE AND AIC RATINGS. ADJUST AIC RATINGS AS REQUIRED BASED ON COORDINATION STUDY NOTED BELOW.
7. EC SHALL PROVIDE A COORDINATION STUDY BASED ON POWER COMPANIES MOST RECENT FAULT CURRENT & ADJUST MAIN SERVICE SWITCH SETTINGS ACCORDINGLY.
8. FIELD VERIFY SITE LIGHTING AND PYLON SIGN BRANCH CIRCUITS AND ROUTE VIA NEW CONTACTORS. CIRCUITS SHOWN IN PANEL HVLP ARE PLACEHOLDERS ONLY. FIELD VERIFY BRANCH CIRCUITS PRIOR TO SUBMITTING BID. ORDER ADDITIONAL CONTACTORS FROM CAPITOL LIGHT AS REQUIRED.
9. ALL EXISTING BRANCH CIRCUIT WIRING ASSOCIATED WITH EXISTING ELEVATOR (MOTOR, CONTROLLER, LIGHTING, MISCELLANEOUS POWER, PIT POWER, ETC.) SHALL REMAIN. ALL EXISTING CIRCUITS, INCLUDING POWER FED FROM EXISTING PANEL L BEING REMOVED, SHALL BE BACKFED FROM NEW PANEL LVPP. CIRCUITS SHOWN IN PANEL LVPP ARE PLACEHOLDERS ONLY. FIELD VERIFY ALL BRANCH CIRCUITS PRIOR TO SUBMITING BID.
10. EXISTING PUMP STATION POWER SHALL BE BACKFED FROM NEW PANEL LVPP. FURNISH AND INSTALL NEW WIRING AND CIRCUIT BREAKER(S) AS REQUIRED.

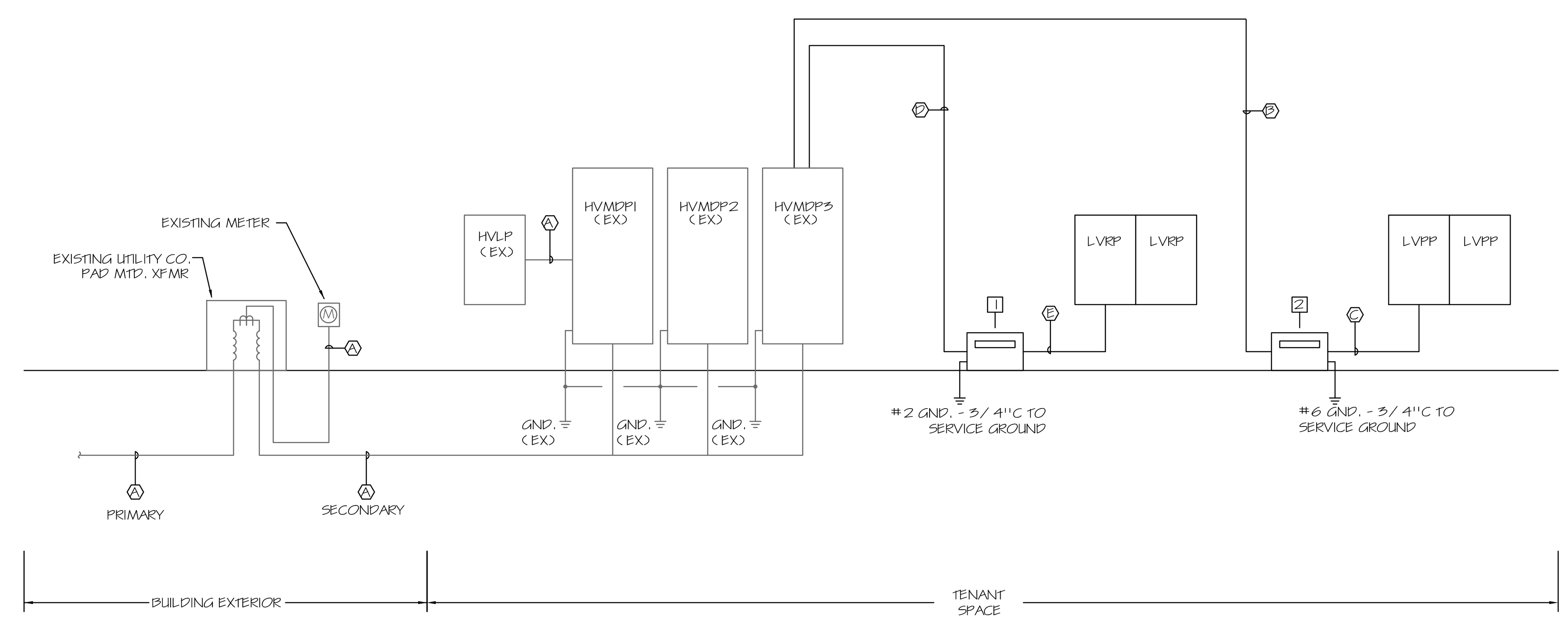
TRANSFORMER SCHEDULE:

1 — 75 KVA
480V. 3Ø-3W PRI.
120/ 208V. 3Ø-4W Y SEC.

2 — 45 KVA
480V. 3Ø-3W PRI.
120/ 208V. 3Ø-4W Y SEC.

FEEDER SCHEDULE:

- A — EXISTING TO REMAIN
- B — 3 #4 + #8 GND. - 1 1/ 4" C.
- C — 4 #1/ 0 + #6 GND. - 1 1/ 2" C. #6 ISOLATED/ INSULATED GND.
- D — 3 #2 + #6 GND. - 1 1/ 4" C.
- E — 4 #4/ 0 + #2 GND. - 2 1/ 2" C.



ONE LINE POWER RISER DIAGRAM

CERTIFICATION:

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REVISION DATES

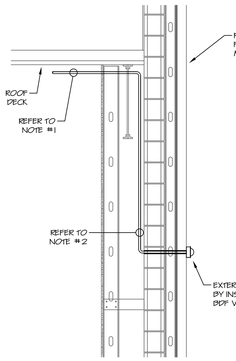
NO.	DATE	TYPE

ISSUE DATES

TYPE	DATE
PERMIT/CONSTRUCTION SET	08/14/26

DRAWN BY
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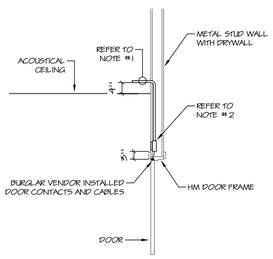
PROJECT NUMBER: 5522012
DATE: 08/14/2026
SHEET TITLE: ELECTRICAL PANELS & RISER
SHEET NUMBER: E9.1



NOTES:

1. EC TO INSTALL A 3/4" EMT CONDUIT AND PULLSTRING FROM THE THROUGH WALL CAMERA LOCATION AND EXTEND UP TO THE BOTTOM OF THE ROOF DECK WITH 90 DEGREE BEND BELOW THE ROOF DECK TOWARDS THE INSIDE OF THE STORE WITH A INSULATING BUSHING ON THE END.
2. EC SHALL DRILL A 1-1/4" HOLE THROUGH THE PERIMETER WALL AT A 15 DEGREE DOWNWARD ANGLE TO ACCOMMODATE THE 3/4" EMT CONDUIT THROUGH TO FLUSH OUT TO THE EXTERIOR SURFACE. EC SHALL APPLY POLYURETHANE SEALANT ALL THE WAY AROUND THE EMT PIPE AND THE EXTERIOR SIDE OF THE DRILLED HOLE TO ENSURE NO MOISTURE MAKES ITS WAY IN THROUGH THE DRILLED HOLE.

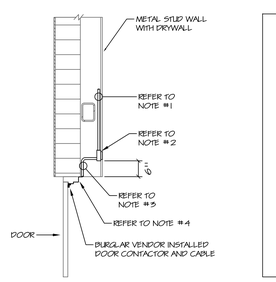
EC CONDUIT PREP FOR THROUGH WALL CCTV CAMERA
NO SCALE



NOTES:

1. EC TO INSTALL A 3/4" EMT CONDUIT WITH PULLSTRING FROM THE J-BOX AND EXTEND UP TO 4" ABOVE THE ACOUSTIC CEILING HEIGHT WITH 90 DEGREE BEND TOWARDS THE INSIDE OF THE ROOM WITH A INSULATING BUSHING ON THE END.
2. EC TO INSTALL A 4X4 JUNCTION BOX W/ PLASTER RING AND A WHITE BLANK COVER PLATE DIRECTLY ABOVE AND ADJACENT TO THE STRIKE SIDE OF THE INTERIOR DOOR. FOR A DOUBLE DOOR APPLICATION, INSTALL THE JUNCTION BOX ABOVE WHERE THE TWO PAIR DOOR LEAFS COME TOGETHER.

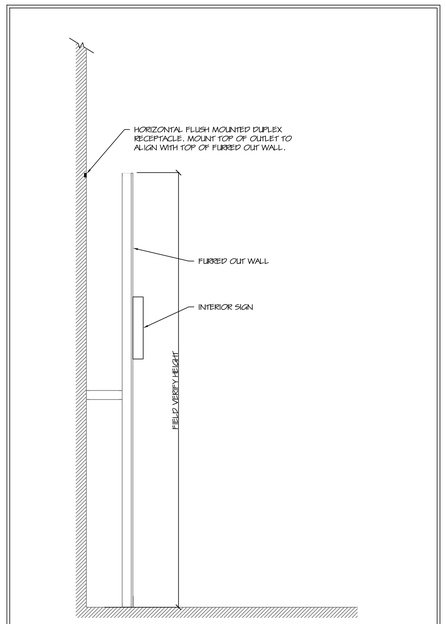
EC CONDUIT & BOX ROUGH-IN FOR BURGLAR CONTACTOR AT INTERIOR DOOR
NO SCALE



NOTES:

1. EC SHALL INSTALL A 3/4" EMT CONDUIT WITH PULLSTRING FROM THE J-BOX AND EXTEND UP TO THE BOTTOM OF THE ROOF DECK WITH 90 DEGREE BEND BELOW THE ROOF DECK TOWARDS THE INSIDE OF THE STORE WITH A INSULATING BUSHING ON THE END.
2. EC TO INSTALL A 4X4 JUNCTION BOX WITH PLASTER RING AND WHITE BLANK COVER PLATE DIRECTLY ABOVE AND ADJACENT TO THE STRIKE SIDE OF THE PERIMETER DOOR. FOR A DOUBLE DOOR APPLICATION, INSTALL THE JUNCTION BOX ABOVE WHERE THE TWO PAIR DOOR LEAFS COME TOGETHER.
3. EC TO INSTALL A 3/4" EMT CONDUIT WITH PULLSTRING FROM THE J-BOX AND EXTEND DOWN THROUGH THE DRYWALL FINISH ADJACENT TO THE DOOR FRAM. INSTALL AN INSULATING BUSHING OVER THE EXPOSED CONDUIT END. LOCATE CONDUIT AS CLOSE TO THE DOOR FRAME AS POSSIBLE.
4. TYPICAL DOOR HEAD CONDITION AT HOLLOW METAL PERIMETER WITH WEATHERSTRIP INSTALLED BEFORE. BURGLAR CONTRACTOR INSTALLS DOOR CONTACTS AND ARMORED CABLE.

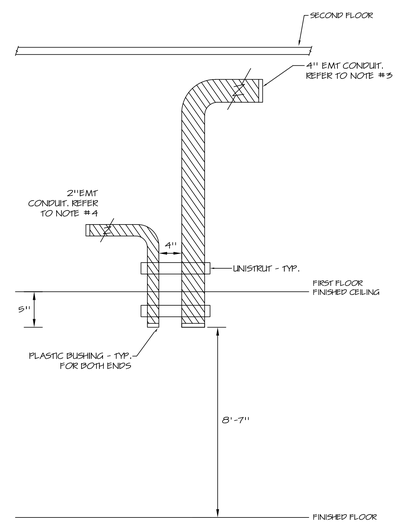
EC CONDUIT & BOX PREP FOR BURGLAR AT PERIMETER DOOR
NO SCALE



INTERIOR SIGN MOUNTING DETAIL SECTION
NO SCALE

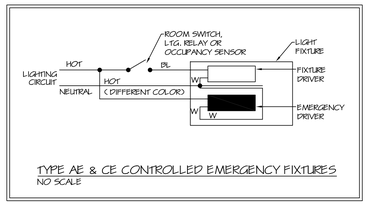
NOTES:

1. EC SHALL COORDINATE EXACT LOCATION OF DATA ROOM CONDUIT STUB-UP WITH BDF LV VENDOR IN FIELD PRIOR TO COMMENCING ROUGH-IN.
2. EC SHALL MOUNT CONDUIT TO WALL VIA 1 7/8" DEEP UNISTRUT AND CLAMPS AS SHOWN.
3. EC SHALL EXTEND 4" CONDUITS TO FIRST FLOOR STRUCTURE ABOVE AND EXTEND INTO SALES FLOOR AREA AS SHOWN ON DRAWING E1.1.
4. EC SHALL EXTEND 2" CONDUIT INTO MANAGERS OFFICE. ROUTE 2' ABOVE CEILINGS.

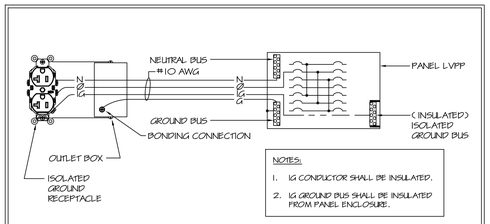


FIRST FLOOR DISPLAY TRACK LIGHTING PLAN

SCALE 3/32" = 1'-0"



TYPE AE & CE CONTROLLED EMERGENCY FIXTURES
NO SCALE



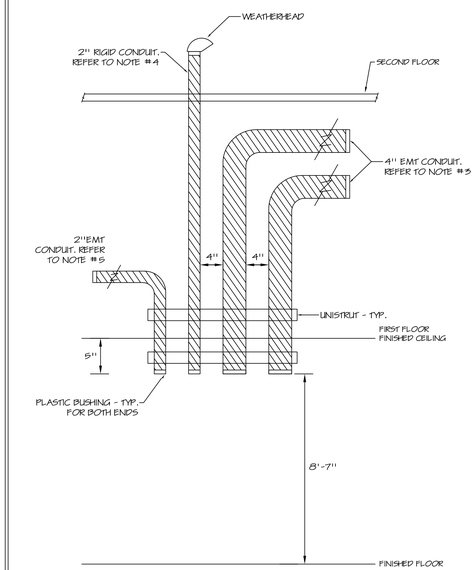
NOTES:

1. IG CONDUCTOR SHALL BE INSULATED.
2. IG GROUND BUS SHALL BE INSULATED FROM PANEL ENCLOSURE.

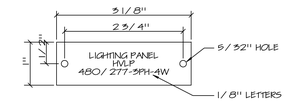
ISOLATED GROUND RECEPTACLE WIRING DETAIL
NO SCALE

NOTES:

1. EC SHALL COORDINATE EXACT LOCATION OF DATA ROOM CONDUIT STUB-UPS WITH BDF LV VENDOR IN FIELD PRIOR TO COMMENCING ROUGH-IN.
2. EC SHALL MOUNT CONDUIT TO WALL VIA 1 7/8" DEEP UNISTRUT AND CLAMPS AS SHOWN.
3. EC SHALL EXTEND 4" CONDUITS TO FIRST FLOOR STRUCTURE ABOVE AND EXTEND INTO SALES FLOOR AREA AS SHOWN ON DRAWING E1.1.
4. 2" CONDUIT PENETRATION THROUGH ROOF VIA SECOND FLOOR FOR SATELLITE RADIO AND AEM CRADLEPOINT. EXTEND CONDUIT 5' ABOVE ROOF LINE. FURNISH AND INSTALL WEATHERHEAD AT TOP OF CONDUIT.
5. EC SHALL EXTEND 2" CONDUIT INTO MANAGERS OFFICE. ROUTE 2' ABOVE CEILINGS.



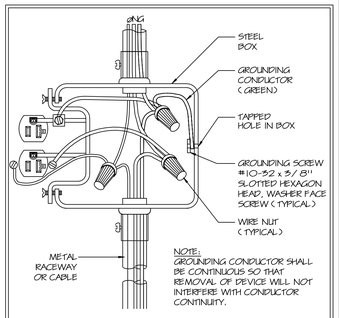
DATA RACK CONDUIT STUB-UPS
NO SCALE



NOTES:

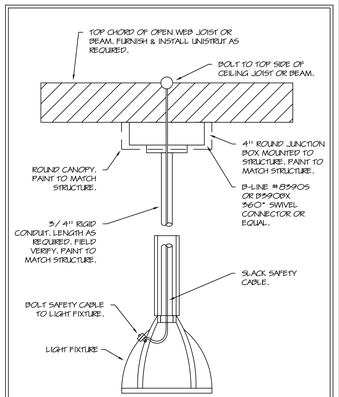
1. NAMEPLATE TO BE CONSTRUCTED OF 1/16" THICK WHITE SURFACE WITH LETTER ENGRAVED INTO BLACK LAMINATIONS.
2. ALL NAMEPLATES SHALL BE SECURED BY MACHINE SCREWS.

TYPICAL PANEL NAMEPLATE DETAIL
NO SCALE



NOTE:
GROUNDING CONDUCTOR SHALL BE CONTINUOUS SO THAT REMOVAL OF DEVICE WILL NOT INTERFERE WITH CONDUCTOR CONTINUITY.

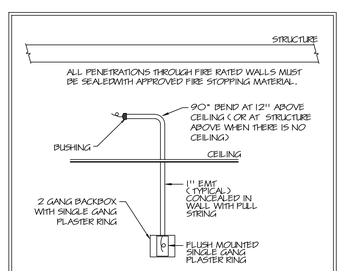
TYPICAL DEVICE WIRING DETAIL
NO SCALE



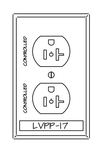
NOTES:

1. ALL MOUNTING HARDWARE SHALL BE PAINTED TO MATCH STRUCTURE.
2. BOTTOM OF LIGHT FIXTURE SHALL BE MOUNTED AT 14'-0" AFF.
3. 15" WIRE LEADS FURNISHED WITH FIXTURE. EC SHALL FURNISH & INSTALL NEW WIRE LEADS IF ADDITIONAL LENGTH IS REQUIRED.
4. LIGHT FIXTURE IS FURNISHED WITH A 3/4" THREADED HUB. ALL MOUNTING COMPONENTS (BOX, CONDUIT, SWIVEL, CANOPY, ETC.) SHALL BE FURNISHED AND INSTALLED BY EC.

TYPE "B" LIGHT FIXTURE MOUNTING DETAIL
NO SCALE



LOW VOLTAGE RACEWAY DETAIL
NO SCALE



1. ELECTRICAL CONTRACTOR SHALL PROVIDE TYPED LABELS WITH PTOUCH MACHINE TO INDICATE PANEL NAME AND CIRCUIT DESIGNATION.
2. ALL CONTROLLED RECEPTACLES SHALL CONFORM WITH NEC REQUIRED LABELING REQUIREMENTS. ALL LABELING SHALL BE FACTORY INSTALLED ON RECEPTACLES. FIELD INSTALLED LABELING IS NOT ACCEPTABLE.

TYPICAL RECEPTACLE LABELING DETAIL
NO SCALE

CERTIFICATION:

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REVISION DATES

NO.	DATE	TYPE

ISSUE DATES

TYPE	DATE
PERMIT/CONSTRUCTION SET	08/14/26

DRAWN BY
CHECKED BY
PROJECT NUMBER 5522012
DATE 08/14/2026
SHEET TITLE: ELECTRICAL DETAILS
SHEET NUMBER: E10.1

ELECTRICAL SPECIFICATIONS:

1. GENERAL

A. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION," AIA DOCUMENT A201, LATEST EDITION, AND THESE SPECIFICATIONS AS APPLICABLE ARE PART OF THE CONTRACT.

B. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THE WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIAL WHICH VIOLATES ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR.

C. INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED, WHERE NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AVAILABLE RESTRICTIVE SPACES. ASCERTAIN FROM BUILDING OWNER AND TENANT AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED THROUGH ALL AREAS.

D. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONDUIT ROUTING, WHEN INDICATED, IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING OF CONDUIT TO AVOID OBSTRUCTIONS. COORDINATION WITH EXISTING SERVICES, INCLUDING THOSE OF OTHER TRADES, IS REQUIRED. MAINTAIN HEADROOM AND SPACE CONDITIONS.

E. INSTALL WORK TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES THAT INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.

F. REMOVAL AND RELATION OF CERTAIN EXISTING WORK MAY BE NECESSARY FOR THE PERFORMANCE OF THE GENERAL WORK. NOT ALL EXISTING CONDITIONS CAN BE COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE AND INCLUDE ALL CHANGES IN BID.

G. CONNECTIONS TO EXISTING WORK: INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES. TEMPORARY SHUTDOWNS OF EXISTING SERVICES SHALL BE PERFORMED AT NO ADDITIONAL CHARGES, AT TIMES NOT TO INTERFERE WITH NORMAL OPERATION OF EXISTING FACILITIES AND ONLY WITH WRITTEN CONSENT OF OWNER. ALARM AND EMERGENCY SYSTEMS SHALL NOT BE INTERRUPTED. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES AS REQUIRED WITH NECESSARY TEMPORARY CONNECTION BETWEEN NEW AND EXISTING WORK. CONNECT NEW WORK TO EXISTING WORK IN NEAT AND ACCEPTABLE MANNER. RESTORE EXISTING DISTURBED WORK TO ORIGINAL CONDITION, INCLUDING MAINTENANCE OF WIRING CONTINUITY AS REQUIRED.

H. DISCONNECT, REMOVE AND/ OR RELOCATE EXISTING MATERIAL, EQUIPMENT AND OTHER WORK AS REQUIRED FOR PROPER INSTALLATION OF NEW WORK.

I. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR ON THE EXTERIOR.

J. SEAL OPENINGS THROUGH PARTITIONS, WALL AND FLOORS WITH MINERAL WOOL OR OTHER NONCOMBUSTIBLE MATERIAL. ALL PENETRATIONS THROUGH NEW AND EXISTING RATED FIRE AND SMOKE PARTITIONS AND/ OR FLOORS SHALL BE COMPLETELY SEALED USING MATERIALS AND METHODS DESCRIBED IN SUBSEQUENT "FIRE STOPPING" SPECIFICATIONS SECTIONS.

K. ALL EXISTING MATERIAL, EQUIPMENT AND CONSTRUCTION DEBRIS TO BE REMOVED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE CONTRACTOR WITH THE EXCEPTION OF SPECIFIC EQUIPMENT AND APPARATUS REQUESTED BY OTHERS. REMOVED EQUIPMENT SHALL BE PROPERLY DISPOSED OF BY THIS CONTRACTOR.

L. UNLESS OTHERWISE SPECIFICALLY NOTED OR SPECIFIED, INCLUDE ALL CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS IN THE EXISTING BUILDING. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION.

M. ALL MATERIAL AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.

N. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING, EQUIPMENT, ETC., WHICH AFFECT THIS WORK, AND THE ACCESS TO SUCH SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDUTIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. THE CONTRACTOR IS RESPONSIBLE TO INDICATE ANY DISCREPANCIES BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS PRIOR TO SUBMITTAL OF BID. SUBMISSION OF A PROPOSAL WILL BE CONTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS SHALL NOT BE MADE FOR LABOR; EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. THE ON-SITE INSPECTION SHALL VERIFY EXISTING CONDUIT (SIZES, CLEARANCE, ETC) AND CONDITIONS.

O. INSURANCE: IN ACCORDANCE WITH BUILDING REQUIREMENTS AND SHALL INCLUDE A HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER.

P. ALL WORK SHALL BE DONE WHEN AND AS DIRECTED BY THE CLIENT AND IN A MANNER SATISFACTORY TO THE BUILDING OWNER. WORK SHALL BE PREFORMED SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND DISTURBANCE TO OTHER BUILDING OCCUPANTS.

Q. THE FINAL ACCEPTANCE SHALL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, TESTED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE EQUIPMENTS OF THE DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL.

R. NOT ALL SUPPORT REQUIREMENTS ARE SHOWN ON DRAWINGS. EC IS RESPONSIBLE FOR INSTALLING ALL SEISMIC RESTRAINT ATTACHMENTS DESIGNED TO RESIST THE TOTAL DESIGNED SEISMIC FORCES PRESCRIBED IS ASCE 7, CHAPTER 13. INCLUDE IN BID SPECIALTY CONSULTANTS NEEDED FOR INSTALL CERTIFICATION.

S. NO CONDUITS, BOXES, SUPPORTS, ETC. SHALL BE LOCATED WITHIN 2" OF LOWEST PORTION OF THE ROOF DECK.

T. NOTHING SHALL BE SUPPORTED DIRECTLY FROM THE ROOF DECK, INCLUDING BUT BY NO MEANS LIMITED TO, LIGHT FIXTURES, BOXES, CONDUIT, CABLES, LOW VOLTAGE DEVICES, ETC.

2. SCOPE OF WORK:

A. SCOPE OF WORK SHALL CONSIST OF PROVIDING LABOR, MATERIALS, EQUIPMENT, SERVICES AND FEES NECESSARY FOR COMPLETE AND SAFE INSTALLATION IN CONFORMITY WITH THE NATION ELECTRICAL CODE, INCLUDING ANY AMENDMENT TO THE NEC, AND ALL OTHER APPLICABLE INDUSTRY, NATION AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION, AS INDICATED ON DRAWINGS AND HEREIN SPECIFIED.

B. ALL DRAWINGS, PLANS, DETAILS, SPECIFICATIONS AND SPECIFICATION ADDENDA ARE MADE PART OF THIS CONTRACT AND SHALL APPLY TO ALL WORK UNDER THE CONTRACT UNLESS OTHERWISE AMENDED, MODIFIED, SUPPLEMENTED OR SPECIFIED HEREIN.

C. THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO PLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED, FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATA OF FINAL CERTIFICATE OF OCCUPANCY. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR.

D. THE CONTRACTOR SHALL GIVE NECESSARY NOTICE, FILE DRAWINGS AND SPECIFICATIONS WITH ALL DEPARTMENTS HAVING JURISDICTION, OBTAIN PERMITS OR LICENSES NECESSARY TO CARRY OUT THIS WORK AND PAY ALL FEES THEREFORE. THE CONTRACTOR SHALL ARRANGE FOR INSPECTION AND TESTS OF ANY OR ALL PARTS OF THE WORK IS SO REQUIRED BY AUTHORITIES AND PAY ALL CHARGES FOR THE SAME. THE CONTRACTOR SHALL PAY ALL COSTS FOR, AND FURNISH TO THE OWNER BEFORE FINAL BILLING, ALL CERTIFICATES NECESSARY AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH ALL REGULATIONS WHERE THEY APPLY TO THIS WORK.

3. SHOP DRAWINGS:

A. PRIOR TO THE INSTALLATION OF ANY WORK AND PROCUREMENT OF EQUIPMENT, CONTRACTOR SHALL PROVIDE COMPLETE SETS OF COORDINATED SHOP DRAWINGS OF ALL NEW AND EXISTING EQUIPMENT, INDICATING CAPACITY, DIMENSIONS AND SEQUENCE OF OPERATION FOR WRITTEN APPROVAL BY THE ARCHITECT AND ENGINEER.

B. INDICATED ON EACH SHOP DRAWINGS SUBMITTED:

a. PROJECT NAME AND LOCATION
b. NAME OF ARCHITECT AND ENGINEER
c. ITEM IDENTIFICATION
d. APPROVAL STAMP OF PRIME CONTRACTOR

C. SUBMISSIONS:

a. SUBMISSIONS 11 IN. X 17 IN. OR SMALLER; IF THE SUBMISSION IS A CATALOG CUT, THEN THE CONTRACTOR SHALL SUBMIT ONE ORIGINAL AND TWO COPIES, OTHERWISE, THE CONTRACTOR SHALL SUBMIT THREE COPIES. THE ARCHITECT WILL FORWARD THE ORIGINAL AND ONE COPY (TWO COPIES WHEN NO ORIGINAL IS RECIEVED) TO THE ENGINEER. ALL CATALOG CUTS SHALL BE COMPLETE.

b. SUBMISSIONS LARGER THEN 11 IN. X 17 IN.; SUBMIT TWO PRINTS AND ONE PAPER SEPIA TO THE ARCHITECT, THE ARCHITECT WILL FORWARD ONE PRINT AND THE PAPER SEPIA TO THE ENGINEER.

c. IF AGREED TO BY ALL PARTIES; SUBMISSIONS MAY BE HANDLED ELECTRONICALLY USING ACROBAT PORTABLE DOCUMENT FORMAT (PDF) VIA E-MAIL OR ELECTRONIC FILE TRANSFER (FTP) TO THE ARCHITECT FOR PROCESSING.

D. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING, AS APPLICABLE;

a. DEVICES
b. SWITCHGEAR AND PANELBOARDS
c. RACEWAYS
d. WIRE AND CABLE
e. LIGHTING CONTROLS
f. LIGHTING FIXTURES AND INVERTERS
g. TEST PROCEDURES AND REPORTS

4. AS-BUILT DRAWINGS AND EQUIPMENT OPERATIONAL INSTRUCTIONS:

A. UPON COMPLETION AND ACCEPTANCE OF WORK, CONTRACTOR SHALL FURNISH WRITTEN INSTRUCTIONS AND EQUIPMENT MANUALS AND DEMONSTRATE TO THE OWNER THE PROPER OPERATION AND MAINTENANCE OF ALL EQUIPMENT AND APPARATUS FURNISH UNDER THIS CONTRACT.

B. THESE INSTRUCTIONS SHALL BE TYPED ON 8-1/ 2 IN. X 11 IN. PAPER AND BOUND IN THREE RING BINDERS WITH CLEAR ACETATE COVERS. CONTRACTOR SHALL GIVE THRC. THE INSTRUCTION BOOKLET SHALL BEAR THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE PROJECT, ARCHITECT AND ENGINEER.

C. REPRODUCIBLE "AS-BUILT" DRAWINGS SHALL BE PROVIDED INDICATING THE AS INSTALLED CONDITIONS OF THE WORK. FULL SIZE HARD AND ELECTRONIC "AS-BUILT" DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT AFTER COMPLETION OF THE INSTALLATION.

5. GENERAL PROVISIONS FOR ELECTRICAL WORK:

A. SPECIFICATIONS ARE OF SIMPLIFIED FORM AND INCLUDE INCOMPLETE SENTENCES. WORDS OR PHRASES SUCH AS "THE CONTRACTOR SHALL," "SHALL BE," "FURNISH," "PROVIDE," "A," "THE," AND "ALL" MAY HAVE BEEN OMITTED FOR BREVITY.

B. DEFINITIONS:

a. "PROVIDE": TO SUPPLY, INSTALL AND CONNECT UP COMPLETE AND READY FOR SAFE AND REGULAR OPERATION THE PARTICULAR WORK REFERRED TO UNLESS SPECIFICALLY OTHERWISE NOTED.

b. "INSTALL": TO ERECT, MOUNT AND CONNECT COMPLETE WITH RELATED ACCESSORIES.

c. "FURNISH": OR "SUPPLY": TO PURCHASE, PROCURE, ACQUIRE AND DELIVER COMPLETE WITH RELATED ACCESSORIES.

d. "WORK": LABOR, MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES AND OTHER ITEMS REQUIRED FOR PROPER AND COMPLETE INSTALLATION.

e. "WIRING": RACEWAY, FITTINGS, WIRE, BOXES AND RELATED ITEMS.

f. "CONCEALED": EMBEDDED IN MASONRY OR OTHER CONSTRUCTION, INSTALLED IN FURRED SPACES, WITHIN DOUBLE PARTITIONS OR HUNG CEILINGS, IN TRENCHES, IN CRAWL SPACES, OR IN ENCLOSURES.

g. "EXPOSED": NOT INSTALLED UNDERGROUND OR "CONCEALED" AS DEFINED ABOVE.

h. "SIMILAR" OR "EQUAL": EQUAL IN MATERIALS, WEIGHT, SIZE, DESIGN AND EFFICIENCY OR SPECIFIED PRODUCT.

C. TEMPORARY LIGHT AND POWER: PROVIDE TEMPORARY LIGHT AND POWER SYSTEMS AT EARLIEST POSSIBLE DATE WITHIN THE CONSTRUCTION AREAS FOR THE REQUIREMENTS OF ALL TRADES AS HEREIN DESCRIBED. EXTEND SYSTEMS TO NEW CONSTRUCTION AS SOON AS PHYSICALLY POSSIBLE. MAINTAIN SYSTEM DURING WORKING HOURS OF ALL TRADES. COST OF ENERGY WILL BE PAID FOR BY OTHERS. PROVIDE ALL REQUIRED MAINTENANCE.

D. QUALITY ASSURANCE

a. QUALITY AND GAUGE OF MATERIALS: NEW, BEST OF THEIR RESPECTIVE KINDS, FREE DEFECTS AND LISTED BY UNDERWRITERS LABORATORIES, INC., OR OTHER NATIONALLY APPROVED TESTING AGENCY AND BEARING THEIR LABEL. MATERIALS AND EQUIPMENT OF SIMILAR APPLICATION SHALL BE OF SAME MANUFACTURER, EXCEPT AS NOTED.

b. GUARANTEE: ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED AS DEFINED IN PARAGRAPH 2.C.

c. HEIGHTS OF OUTLETS:

- FROM FINISHED FLOOR TO CENTERLINE OF OUTLETS FOR:
  - RECEPTACLES AND TELEPHONES: 1FT - 6IN.
  - WALL SWITCHES: 4 FT - 0 IN.
  - MOTOR CONTROLLERS: 5 FT - 0 IN.
- EXCEPTIONS: AT JUNCTION OF DIFFERENT WALL FINISH MATERIALS, ON MOLDING OR BREAK IN WALL SURFACE, IN VIOLATION OF CODE, OR AS OTHERWISE NOTED OR DIRECTED.

E. PRODUCT DELIVERY, STORAGE AND HANDLING

a. MOVING OF EQUIPMENT: WHERE NECESSARY, SHIP IN CARTED SECTIONS OF SIZE TO PERMIT PASSING THROUGH AVAILABLE SPACES.

b. ACCESSIBILITY: FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS SHALL BE PERMITTED. CHANGES OF MAGNITUDE OR INVOLVING EXTRA COST ARE NOT PERMISSIBLE WITHOUT REVIEW. GROUP CONCEALED ELECTRICAL EQUIPMENT REQUIRING ACCESS WITH EQUIPMENT FREELY ACCESSIBLE THROUGH ACCESS DOORS.

c. PROVIDE STORAGE OFF SITE OR OUTSIDE BUILDING IF REQUIRED.

d. EC RESPONSIBLE TO STORE AND HANDLE ALL OWNER FURNISHED PRODUCT. INCLUDING LIGHT FIXTURES, INVERTERS AND CONTROLS.

F. MATERIALS

a. NAMEPLATES: PROVIDE BLACK LAMICOID SHEET WITH 3/ 4 IN. WHITE LETTERING, FASTENED WITH EPOXY CEMENT FOR EACH DISCONNECT SWITCH, CIRCUIT BREAKER, PANEL, CABINET, TRANSFORMER, ENCLOSURE, MOTOR CONTROLLER AND THE LIKE. NAMEPLATES SHALL DESCRIBE THE NAME AND NUMBER OF EACH COMPONENT.

b. CABLE TAGS: TAG EACH CONDUCTOR PASSING THROUGH SPLICE OR PULLBOX WITH A WHITE LINEN TAG, INDICATING POINT OF ORIGIN AND TERMINATION OF THE CIRCUIT.

c. INSERTS AND SUPPORTS:

- INSERTS: STEEL, SLOTTED TYPE, FACTORY PAINTED.
  - SINGLE ROD: SIMILAR TO GRINNELL FIG. 281
  - MULTI-ROD: SIMILAR TO FEE AND MASON SERIES 9000 WITH END CAPS AND CLOSURE STRIPS
  - CLIP FORM NAILS FLUSH WITH INSERTS
  - MAXIMUM LOADING 75 PERCENT OF RATING
- SUPPORTS FROM BUILDING CONSTRUCTION: INSERTS, BEAM CLAMPS, STEEL FISHPLATES (IN CONCRETE FILL ONLY), CANTILEVER BRACKETS OR OTHER MEANS.
- GROUPED LINES AND SERVICES: TRAPEZE HANGERS OF BOLTED ANGLES OR CHANNELS.
- WHERE BUILDING CONSTRUCTION IS INADEQUATE: PROVIDE ADDITIONAL FRAMING AS NEEDED.

G. PAINT SHALL BE THE BEST GRADE FOR ITS PURPOSE. DELIVER IN ORIGINAL SEALED CONTAINERS AND APPLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. COLORS SHALL BE AS SELECTED BY ARCHITECT OR ENGINEER. UTILIZE GALVANIZED IRON PRIMER ON PANEL AND PULL BOXES, AFTER FABRICATION. UTILIZE HOT DIPPED GALVANIZED OR DIPPED IN ZINC BASED PRIMER FOR: OUTLET BOXES, JUNCTION BOXES, CONDUIT HANGERS, RODS, INSERTS AND SUPPORTS. ZINC BASED PRIMER WITH FINISH TO MATCH SURROUNDINGS SHALL BE USED FOR MARRED SURFACES OF STEEL EQUIPMENT AND RACEWAYS. A FIELD-APPLIED ZINC BASED PRIME COAT SHALL BE UTILIZED FOR STEEL OR IRONWORK.

H. BRUSH AND CLEAN WORK PRIOR TO CONCEALING, PAINT AND ACCEPTANCE. PAINTED EXPOSED WORK SOILED OR DAMAGED; CLEAN AND REPAIR T MATCH ADJOINING WORK BEFORE FINAL ACCEPTANCE. REMOVE DEBRIS FROM INSIDE AND OUTSIDE OF MATERIAL AND EQUIPMENT.

I. FINAL LOCATIONS AND MOUNTING ORIENTATIONS OF ALL SWITCHES, RECEPTACLES AND LIGHT FIXTURES SHALL BE VERIFIED WITH ARCHITECT.

J. PROVIDE ACCESS DOORS WHEN CONCEALED ELECTRICAL REQUIRES ACCESS. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.

6. CUTTINGS AND PATCHING:

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF THE EXISTING AND NEW CONSTRUCTION WORK, WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP, AND FINISH, AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK.

B. CORE BORING OF CONCRETE FLOOR AND/ OR WALLS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

7. COORDINATION:

A. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EQUIPMENT WITH ARCHITECTURAL DRAWINGS. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS, AND MECHANICAL EQUIPMENT, VARIATIONS IN FIRE PROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS, AND THE LIKE, AND CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSES TO THE OWNER.

8. EQUIPMENT FURNISHED BY OTHERS:

A. THE CONTRACTOR SHALL FURNISH AND INSTALL WIRING FOR EQUIPMENT FURNISHED BY OTHERS, AS SHOWN ON DRAWINGS. COORDINATE WITH ALL OTHER TRADES OR DETAILS FOR INSTALLATION, THE TERM "WIRING" AS USED HERE-IN, INCLUDES, BUT IS NOT LIMITED TO, FURNISHING AND INSTALLING CONDUIT, WIRE, JUNCTION BOXES, DISCONNECTS AND MAKING CONNECTIONS. CONTRACTOR SHALL CHECK ARCHITECTURAL, MECHANICAL, PLUMBING AND SPRINKLER DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT TO BE INSTALLED BY OTHERS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER WIRING AND NECESSARY ELECTRICAL ADJUSTMENTS TO EQUIPMENT TO CONFORM TO SPECIFIED REQUIREMENTS OF THE EQUIPMENT.

9. DISTRIBUTION EQUIPMENT AND SWITCHGEAR:

A. PROVIDE COMPLETE EQUIPMENT INCLUDING: SWITCHGEAR, PANELS, TRANSFORMERS, SWITCHES, FUSES, CIRCUIT BREAKERS, ETC.

B. ALL EQUIPMENT SHALL CONFORM TO NEMA, ANSI AND IEEE STANDARDS APPROVALS.

C. DISCONNECT SWITCHES SHALL BE FUSED AS NOTED. VOLTAGE SHALL BE AS REQUIRED. SWITCHES SHALL BE HEAVY DUTY AND HORSEPOWER RATED FOR MOTOR LOADS.

a. TOGGLE TYPE SWITCHES SHALL BE NONFUSED, LOAD BREAK, UTILIZED WITH A MAXIMUM RATINGS OF 20 AMP AT 600 VOLTS AND 30 AMP AT 240 VOLTS.

b. TWO-POLE SWITCHES SHALL BE SIMILAR TO LEVITON MS 302.

c. THREE-POLE SWITCHES SHALL BE SIMILAR TO LEVITON MS 303.

d. KNIFE-BLIDE TYPE SWITCHES SHALL BE LOAD BREAK, QUICK-MAKE-QUICKOBREAK WITH ARC QUENCHERS, UL CLASS R UP TO 600 AMP. SWITCHES SHALL BE SIMILAR TO GENERAL ELECTRICAL QMR. ALL SWITCH ENCLOSURES SHALL BE DEAD FRONT, NEMA TYPE 1, EXCEPT AS NOTED.

D. CIRCUIT BREAKER: MOLDED CASE BREAKERS SHALL BE THERMALOMAGNETIC, QUICK-MAKE-QUICK-BREAK, CONTAIN INTERNAL TRIP BAR. TERMINALS SHALL BE SUITABLE FOR COPPER OR ALUMINUM CABLE. PROVIDE INTERCHANGEABLE TRIP FROM 225A FRAME AND ABOVE. FURNISH AUXILIARY DEVICES WHERE REQUIRED FOR SHUNT TRIPPING, OPEN AND CLOSE MOTOR OPERATOR AND ALARM INDICATION. PROVIDE ARC-FAULT TYPE CIRCUIT BREAKERS AS REQUIRED IN DWELLING UNITS. ENCLOSURES SHALL BE DEAD FRONT, NEMA TYPE 1, EXCEPT AS NOTED. BREAKERS FOR HEATING AND AC UNITS SHALL BE HACR RATED. FRAMES AIC SHALL MATCH EXISTING PARAMETERS.

E. AT THE END OF THE PROJECT ALL SPARE BREAKERS ARE TO BE SET TO THE OFF POSITION.

F. UPDATE DIRECTORIES ON EXISTING PANELBOARD WHERE CIRCUITING IS CHANGED WITH NEW TYPE WRITTEN DIRECTORIES.

G. TESTS: OPEN AND CLOSE LOAD BREAK SWITCHING DEVICES UNDER LOAD.

H. NEW EQUIPMENT SHALL MATCH EXISTING EQUIPMENT MANUFACTURER/ STYLE BEING UTILIZED. IF NO EXISTING EQUIPMENT IS BEING UTILIZED, NEW EQUIPMENT SHALL BE MANUFACTURED BY GE OR APPROVED EQUAL.

10. RACEWAYS:

A. PROVIDE RACEWAYS COMPLETE WITH BOXES, FITTINGS AND ACCESSORIES. CONDUIT OR TUBING SIZES REFEREED TO IN SPECIFICATIONS AND ON DRAWINGS ARE NOMINAL DIAMETERS. MINIMUM DIAMETER SHALL BE 3/ 4 IN.

B. MATERIALS:

a. RACEWAYS:

- ELECTRICAL METALLIC TUBING (EMT): THIN WALL PIPE, GALVANIZED, THREADLESS.
- FLEXIBLE METAL CONDUIT: CONTINUOUS SINGLE STRIP, GALVANIZED.
- LIQUIDTIGHT FLEXIBLE METAL CONDUIT: SUNLIGHT RESISTANT OUTER JACKET WITH A FLEXIBLE METAL CORE.

b. FITTINGS AND ACCESSORIES:

- ELECTRICAL METALLIC TUBING: COMPRESSION TYPE OR DOUBLE SETSCREWS. GALVANIZED RIGID STEEL ELBOWS, 2 IN. OR LARGER.
- FLEXIBLE METAL CONDUIT: ANGLE WEDGE TYPE WITH INSULATED THROAT.
- BUSHINGS: METALLIC INSULATED TYPE.
- LIQUIDTIGHT FLEXIBLE METAL CONDUIT: LIQUID-TIGHT WITH SEALING RING AND INSULATED THROAT.

c. BOXES:

- OUTLET BOXES: EXCEPT AS OTHERWISE REQUIRED BY CONSTRUCTION, DEVICES OR WIRING, BOXES SHALL BE STAMPED STEEL, 4 IN. SQUARE OR OCTAGON FOR FIXTURES. BOXES ABOVE CEILING SHALL BE 1-1/ 2 IN. DEEP. BOXES IN CEILING OR SLAB SHALL BE 3 IN. DEEP. BOXES IN WALL FOR FIXTURES SHALL BE 2-3/ 4 IN. DEEP. BOXES IN WALL FOR RECEPTACLES AND SWITCHES SHALL BE 1-1/ 2 IN. DEEP. FURNISH BLANK COVER. OFFSET BACK-TO-BACK OUTLETS WITH MINIMUM 6 IN. SEPARATION.
- JUNCTION AND PULL BOXES: GALVANIZED SHEET STEEL WITH SCREW-ON COVERS, EXCEPT AS NOTED. FURNISH WITH INSULATED SUPPORTS FOR CABLES. LOCATIONS SHALL BE AS NOTED OR REQUIRED AND ACCESSIBLE.

d. PROVIDE RACEWAY SUPPORT UTILIZING CEILING TRAPEZE, STRAPHANGERS, OR WALL BRACKETS. PROVIDE U-BOLTS AT EACH FLOOR LEVEL OF RISER RACEWAYS AND CONNECTED TO ACCEPTABLE SUPPORTS. PROVIDE RISER CLAMPS AT EACH FLOOR LEVEL OF RISER RACEWAYS RESTING ON SLAB. SPACING OF SUPPORTS SHALL BE A MINIMUM OF 10 FT ON CENTER FOR METALLIC RACEWAY AND AS REQUIRED FOR NONMETALLIC RACEWAY. SPACING SHALL BE 5FT ON CENTER FOR WIREWAYS AND PER CODE AND AS NOTED FOR OTHERS. MOUNT SUPPORTS TO STRUCTURE MASONRY WITH TOGGLE BOLTS ON HOLLOW MASONRY. EXPANSION SHIELDS OR INSERTS IN CONCRETE AND BRICK, MACHINE SCREWS ON METAL, BEAM CLAMPS ON FRAMEWORK, WOOD SCREWS ON WOOD, AND PAN THROUGH STRAPS IN METAL DECK. NAILS, RAWL PLUGS OR WOOD PLUGS SHALL NOT BE PERMITTED. WHERE REQUIRED BY STRUCTURE, FURNISH THROUGH BOLTS AND FISHPLATES.

e. EXPOSED RACEWAYS SHALL BE RUN PARALLEL WITH OR AT RIGHT ANGLES TO WALLS. PROVIDING CLEARANCE WITH WATER, STEAM OR OTHER PIPING (MINIMUM 3 IN. SEPARATION FROM STEAM AND HOT WATER PIPES, EXCEPT 1 IN. FROM PIPE COVER AT CROSSINGS AND 18 IN. FOR PARALLEL RUNS). FOR HUNG CEILING OUTLETS, RUN IN HUNG CEILING AND CONNECT TO CEILING SUPPORT CHANNELS. IN MASONRY AND POURED CONCRETE, RUN VERTICALLY ONLY.

f. MAINTAIN GROUNDING CONTINUITY OF INTERRUPTED METALLIC RACEWAYS WITH GROUND CONDUCTOR, AND IN FLEXIBLE CONDUIT FOR FEEDERS AND MOTOR TERMINAL CONNECTIONS.

g. EMPTY RACEWAYS OVER 10 FT LONG; PROVIDE FISH OR PULL WIRE, GALVANIZED OR NYLON ROPE.

h. EMT SHALL BE PERMITTED FOR BRANCH CIRCUITS IN DRY LOCATIONS, DRY WALLS, HUNG CEILINGS, HOLLOW BLOCK WALLS AND FURRED SPACES.

i. FLEXIBLE STEEL CONDUIT SHALL BE UTILIZED FOR SHORT CONNECTIONS WHERE RIGID CONDUIT IS IMPRACTICAL. FROM OUTLET BOX TO RECESSED LIGHTING FIXTURE: PROVIDE MINIMUM 4 FT AND MAXIMUM 6 FT LENGTHS. FOR FINAL CONNECTION TO MOTOR TERMINAL BOX, TRANSFORMER AND OTHER VIBRATING EQUIPMENT: PROVIDE WITH POLYVINYL SHEATHING AND GROUND CONDUCTOR. MINIMUM LENGTH: 18 IN. WITH SLACK. CONNECT GROUND CONDUCTOR TO ENCLOSURE OR RACEWAY AT EACH END. CUT CONDUIT ENDS SQUARE, REAR SMOOTH. PAINT MALE THREADS OF FIELD THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH RACEWAY COUPLING.

j. EXPANSION FITTINGS SHALL BE INSTALLED AT RIGHT ANGLES WITH CLIP JOINT CENTERED IN EXPANSION JOINT. PROVIDE A LENGTH OF RUN IN ACCORDANCE MANUFACTURER'S RECOMMENDATIONS. PRESET FITTINGS SHALL ALLOW FOR TEMPERATURE VARIATION. FOR EXPANSION JOINT CROSSINGS, CROSS AT RIGHT ANGLES AND ANCHOR ENDS. FOR RACEWAY NOT IN SLAB, PROVIDE FLEXIBLE CONDUIT WITH EXTERNAL BONDING JUMPER STRIP. IN SLAB, PROVIDE O.Z. TYPE "AX" OR APPLETON TYPE "XJ" OR "XJF" WITH GROUND CONTINUITY.

C. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. OUTLET BOXES SHALL BE SET SQUARE AND TRUE WITH BUILDING FINISH. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRON OR GROUT IN WITH MASONRY. VERIFY OUTLET LOCATIONS IN FINISHED SPACES WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISHES. PROVIDE BARRIERS BETWEEN SWITCHES CONNECTED TO DIFFERENT PHASES.

D. PANEL, JUNCTION AND PULL BOXES SHALL BE LOCATED CLEAR OF OTHER TRADES. CONCEAL JUNCTION AND PULL BOXES IN FINISHED SPACES. WHERE NECESSARY, REROUTE RACEWAYS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. BOXES SHALL BE ACCESSIBLE. PROVIDE ACCESS DOORS AS REQUIRED FOR ACCESSIBILITY. SUPPORT BOXES FROM BUILDING STRUCTURE, INDEPENDENT OF CONDUIT. PROVIDE FLOOR-TO-CEILING CHANNELS FOR MOUNTING ON DRYWALL AND LIGHTWEIGHT CONSTRUCTION. OUTLET BOXES FOR FIXTURES RECESSED IN HUNG CEILINGS SHALL BE ACCESSIBLE THROUGH OPENING CREATED BY REMOVAL OF FIXTURE. SECURE TO BLACK IRON SUPPORT. MOTOR TERMINAL BOXES: COORDINATE WITH MOTOR BRANCH CIRCUIT CONDUIT AND WIRING; ADD BOX VOLUME WHERE REQUIRED.

E. FIRE SEALANTS: PROVIDE FOR RACEWAYS AND WIRE PASSING THROUGH FLOOR SLOTS, SLEEVES OR OPENINGS IN FIRE PARTITIONS. SEE SPEC SECTION 19 ON THIS SHEET.

F. PERFORM CONTINUITY TESTS OF RESISTANCE OF FEEDER CONDUITS FROM SERVICE TO POINT OF FINAL DISTRIBUTION USING 1 CONDUCTOR RETURN, MAXIMUM RESISTANCE SHALL BE 25 OHMS.

11. WIRE AND CABLE:

A. PROVIDE WIRE AND CABLE COMPLETE WITH ACCESSORIES, SIZE REFERENCE SHALL BE AWG EXCEPT AS NOTED.

B. CONDUCTORS SHALL BE COPPER, ASTM STANDARDS. GENERAL USE CABLING SHALL BE NO. 12 MINIMUM. AT 120 OR 208 VOLTS AND OVER 100 FT CIRCUIT LENGTH, PROVIDE NO. 10 MINIMUM. AT 277 OR 480 VOLTS AND OVER 150 FT CIRCUIT LENGTH, PROVIDE NO. 10 MINIMUM.

C. CONTROL AND ALARM CABLING, EXCEPT AS NOTED, SHALL BE NO. 14 MINIMUM. AT 120 VOLTS AND OVER 200 FT CIRCUIT LENGTH, PROVIDE NO. 12 MINIMUM.

D. OTHER VOLTAGE AND PHASES: ADJUST CABLE SIZING AS REQUIRED TO MAINTAIN CODE ACCEPTABLE VOLTAGE DROP. INCREASE RACEWAY SIZES FOR LARGER WIRE AS REQUIRED.

E. INSULATION SHALL BE RUBBER AND THERMOPLASTIC MEETING ASTM AND ICEA STANDARDS. TYPE THHN/ THWN SHALL BE UTILIZED FOR FEEDERS AND BRANCH CIRCUITS EXCEPT AS NOTED.

F. ALL WIRING SYSTEMS SHALL BE INSTALLED IN A METAL RACEWAY OF CONDUIT.

G. COLOR CODING SHALL BE AS FOLLOWS:

208Y/ 120 VOLTS	PHASE	480Y/ 277 VOLTS
BLACK	A	BROWN
RED	B	ORANGE
BLUE	C	YELLOW
WHITE	NEUTRAL	GRAY
GREEN	GROUND	GREEN
GREEN / YELLOW	ISOLATED GROUND	GREEN / YELLOW

H. TERMINATIONS, SPLICES AND TAPS UNDER 600 VOLTS: COPPER CONDUCTORS NO. 10 AND SMALLER SHALL UTILIZE COMPRESSION-TYPE OF TWIST-ON SPRING-LOADED CONNECTORS AND CLEAR NYLON-INSULATED COVERING. COPPER CONDUCTORS NO. 8 AND LARGER SHALL UTILIZE HYDRAULIC COMPRESSION TYPE USING MANUFACTURER'S RECOMMENDED TOOLING. CABLE LUGS AND CONNECTORS SHALL UTILIZE COMPRESSION TYPE OF SAME EMTAL AS CONDUCTOR. PROVIDE TO MATCH CABLE, WITH MARKING INDICATING SIZE AND TYPE. COPPER LUG CONNECTIONS TO BUS BARS: USE ANTISEIZE COMPOUND ON TANG.

I. NOT MORE THAN 3 LIGHTING OR CONVENIENCE OUTLET CIRCUITS SHALL BE INSTALLED IN ONE CONDUIT UNLESS OTHERWISE INDICATED. IF MORE THAN THREE CIRCUITS, DERATE WIRE CURRENT CARRYING CAPACITY AND MAINTAIN CODE REQUIREMENTS ON CONDUIT FILL. NEUTRAL CONDUCTOR SHALL BE COUNTED AS A CURRENT CARRYING CONDUCTOR. SUBMIT TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

J. LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT MAKING FINAL CONNECTIONS.

K. PERFORM CONTINUITY AND INSULATION TESTS, ON ALL OF BRANCH CIRCUITS AND MOTOR BRANCH CIRCUITS.

L. PERFORM TESTS PRIOR TO CONNECTING EQUIPMENT. SUBMIT WRITTEN REPORT OF RESULTS. CORRECT OR REPLACE CABLE TESTING BELOW MANUFACTURER'S STANDARDS. PROVIDE A SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT.

M. NEUTRALS SHALL NOT BE SHARED.

N. WIRING SHALL BE SIZED PER THE NATIONAL ELECTRIC CODE BASED ON THE CIRCUIT BREAKER TRIP RATING. USE THE 60 DEGREE CELSIUS RATING FOR CIRCUITS WITH LESS THEN 100 AMPS AND THE 75 DEGREE CELSIUS RATING FOR ALL OTHERS, UNLESS NOTED OTHERWISE.

O. AVOID EXCESSIVE VOLTAGE DROP BY USING NO. 10 WIRE FOR 20A 120 VOLT CIRCUITS THAT EXCEED 100 FEET TO THE FARTHEST DEVICE AND FOR 20A 277 VOLT CIRCUITS THAT EXCEED 200 FEET TO THE FARTHEST DEVICE.

P. UNDER NO CIRCUMSTANCES SHALL FEEDERS BE SPLICED. CIRCUIT NUMBERS ARE SHOWN ONLY FOR GROUPING AND IDENTIFICATION.

Q. MAINTAIN A LOAD BALANCE OF + / - 10%.

R. ALL WIRING BEING FED FROM ISOLATED GROUND PANELS SHALL HAVE ONE (1) ISOLATED GROUND CONDUCTOR AND ONE (1) NORMAL GROUND CONDUCTOR.

S. NO SHARED NEUTRALS ARE ALLOWED ON ANY BRANCH CIRCUITRY.

T. EC SHALL BE RESPONSIBLE FOR SIZING ALL BRANCH CIRCUIT WIRING SO THAT THERE IS A MAXIMUM OF 3% VOLTAGE DROP AT THE END OF THE CIRCUIT.

12. GROUNDING:

A. AN EQUIPMENT GROUNDING CONDUCTOR COMMONLY DESCRIBED AS A "GREEN WIRE" SHALL BE PROVIDED FOR ALL BRANCH CIRCUITS PROTECTED BY OVERCURRENT DEVICES EXCEPT FOR LIGHTING BRANCH CIRCUITS. GREEN WIRE GROUND SHALL ALSO BE PROVIDED FOR FLEXIBLE CONDUIT AND MOTOR CIRCUITS. METALLIC RACEWAY CONTINUITY SHALL BE MAINTAINED WITH A BARE NO. 6 WIRE. WHERE ISOLATED GROUNDING BRANCH CIRCUITS ARE USED, PROVIDE A SEPARATE AND DISTINCTLY MARKED GREEN/ WHITE STRIPED GROUND WIRE. EACH GROUNDING CONDUCTOR SHALL SERVE A MAXIMUM OF THREE CIRCUITS/ POLES.

B. SERVICE GROUND:

a. FOR SEPARATELY DERIVED SERVICES OR SERVICE SWITCHES, GROUND THE NEUTRAL CONDUCTOR THROUGH DISCONNECTING LINK AND GROUND TERMINAL TO WATER SERVICE GROUND CLAMP AND BUILDING STEEL OR DRIVEN GROUND RODS IN EXTERIOR INSTALLATIONS.

b. GROUND CLAMPS SHALL BE BRONZE, SOLDERLESS TYPE WITH BRONZE SCREWS, SUITABLE FOR RECEIVING NOTED CONDUCTORS. MOUNT GROUND CLAMP ON WATER SERVICE AT STREET SIDE OF MAIN SERVICE VALVE. PROVIDE JUMPER TO BY-PASS WATER METER.

C. RUN INSULATED GROUND CONDUCTORS IN RIGID METALLIC CONDUIT WITH CONDUCTOR CONNECTED TO CONDUIT, THROUGH GROUND FITTING AT EACH END.

D. GROUND NONCURRENT CARRYING METAL PARTS OF DISTRIBUTION PANELS, SWITCHBOARDS, TRANSFORMER ENCLOSURES, RACEWAYS, BUSWAY ENCLOSURES, CONTROLLER ENCLOSURES, MOTOR FRAMES AND OTHER ELECTRICAL EQUIPMENT.

E. MISCELLANEOUS:

a. GROUND THE FOLLOWING:

- TELEPHONE SYSTEM
- DATA ROOM RACKS

F. WHEREVER CIRCUIT CONDUCTORS ARE SPLICED IN A JUNCTION BOX, ANY ASSOCIATED EQUIPMENT GROUNDING CONDUCTORS (EGC) SHALL BE BONDED (PIGTAILED) TO THE BOX.

G. EC SHALL BOND WATER PIPE SYSTEM AT THE WATER HEATER. FURNISH AND INSTALL JUMPER BETWEEN THE COLD AND HOT WATER PIPES. SIZE PER NEC TABLE 250.66.

13. POWER WIRING:

A. PROVIDE ALL POWER WIRING TO ALL MOTORS AND EQUIPMENT FURNISHED UNDER ALL CONTRACTS ON THE PROJECT. INCLUDE EXTENSIONS FROM CONTROLLERS TO MOTORS AND MOTOR CONNECTIONS. MOUNT AND WIRE ALL CONTACTORS AND POWER DEVICES FURNISHED UNDER ALL CONTRACTS.

14. CONTROL WIRING:

A. PROVIDE ALL CONTROL WIRING FOR MOTORS AND EQUIPMENT FURNISHED UNDER ALL CONTRACTS AND AS SPECIFICALLY SHOWN ON THE DRAWINGS, EXCEPT AS NOTED FOR MECHANICAL / PLUMBING EQUIPMENT. INCLUDE MOUNTING AND WIRING OF ALL CONTROL DEVICES FURNISHED WITH EQUIPMENT.

B. CONTROL WIRING LESS THAN 120 VOLTS FOR MOTORS, ALARMS FOR EQUIPMENT FURNISHED UNDER MECHANICAL / PLUMBING WILL BE PROVIDED UNDER DIVISION 15 CONTRACT.

15. DEVICES:

A. PROVIDE COMPLETE MATERIAL AND ACCESSORIES AS NOTED BY P AND S, LEVITON, HUBBELL, OR APPROVED EQUAL.

B. LOCAL WALL SWITCHES SHALL BE COMMERCIAL GRADE, TOGGLE, QUIET TYPE, RATED 20 AMP, 120/ 277 VOLT, AC. ALL SWITCHES SHALL BE GANGED WITH MULTI DEVICE PLATES, IN AREAS WHERE DIMMERS ARE SPECIFIED WITH WALL SWITCHES; ALL SWITCHES SHALL MATCH DIMMER SERIES AND SHALL BE GANGED TOGETHER. SIMILAR TO:

a. ALL NONLOCKING TYPE, 125-VOLT, 15- AND 20-AMPERE RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC CONTROL DEVICE, OR THAT INCORPORATE CONTROL FEATURES THAT REMOVE POWER FROM THE OUTLET FOR THE PURPOSE OF ENERGY MANAGEMENT OR BUILDING AUTOMATION, SHALL BE MARKED WITH THE SYMBOL SHOWN IN FIGURE 406.3(E) OF THE AND LOCATED ON THE CONTROLLED RECEPTACLE OUTLET WHERE VISIBLE AFTER INSTALLATION.

C. INSERTION RECEPTACLE SHALL BE MINIMUM SPECIFICATION GRADE, DUPLEX CONVENIENCE 125 VOLTS, 2 POLE, 3 WIRE, U GROUND SLOT, GROUNDED, EXCEPT AS NOTED. MEETING NAME STANDARDS, PUBLICATION WD-6 SIMILAR TO:

a. IN FINISHED AREAS ARCHITECTURAL TYPE DECORATOR SERIES FOR ALL TYPES NOTED BELOW. FOR DUPLEX RECEPTACLES COMMERCIAL SPECIFICATION GRADE: LEVITON DECORA PLUS #16262-HGW (SINGLE POLE).

b. GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES WITH COLOR MATCH BUTTONS, COMMERCIAL SPECIFICATION GRADE: FEED THROUGH TYPE SIMILAR TO LEVITON #7899-HGW (20 AMP).

c. ALL NONLOCKING TYPE, 125-VOLT, 15- AND 20-AMPERE RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC CONTROL DEVICE, OR THAT INCORPORATE CONTROL FEATURES THAT REMOVE POWER FROM THE OUTLET FOR THE PURPOSE OF ENERGY MANAGEMENT OR BUILDING AUTOMATION, SHALL BE MARKED WITH THE SYMBOL SHOWN IN FIGURE 406.3(E) AND LOCATED ON THE CONTROLLED RECEPTACLE OUTLET WHERE VISIBLE AFTER INSTALLATION.

D. DEVICE PLATES: COORDINATE WITH ARCHITECT FOR TYPE, FOR RECEPTACLE WITH OTHER THAN 120 VOLT INSCRIBED VOLTAGE AVAILABLE.

a. STANDARD RECEPTACLES AND SWITCHES SHALL BE FURNISHED WITH NYLON COMMERCIAL GRADE PLATES (80401-NQ SINGLE OR 80409-NW 2 GANG).

b. BRUSHED 302 STAINLESS STEEL WITH ENGRAVED CIRCUIT IDENTIFICATION PLATE WHEN USED TOGETHER WITH NEITHER A NON 120 RECEPTACLES OR EMERGENCY BRANCH CIRCUIT DEVICE.

E. MOUNTING ORIENTATION OF RECEPTACLES (HORIZONTAL OR VERTICAL): COORDINATE WITH ARCHITECT.

16. LIGHTING FIXTURES AND CONTROLS

A. LIGHTING FIXTURE SCHEDULE: LIGHTING FIXTURE SCHEDULE SHOWN ON ENGINEER'S DRAWINGS ARE FOR INFORMATION PURPOSE ONLY.

B. ALL LIGHT FIXTURES, INVERTERS AND CONTROLS SHALL BE FURNISHED AND PAID FOR BY BDF AS PART OF NATIONAL ACCOUNT PROGRAM. INSTALLATION BY THIS CONTRACTOR. REFER TO ALL SPECIFICATION SHEETS FOR INSTALL REQUIREMENTS PRIOR TO SUBMITTING BID. CERTAIN PORTIONS OF CONTROL WIRING SHALL BE BOTH FURNISHED AND INSTALLED BY THIS CONTRACTOR. REFER TO CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.

C. FIXTURES SHALL BE COMPLETELY WIRED AND CONSTRUCTED TO COMPLY WITH ALL STATE AND LOCAL CODES AND UNDERWRITERS LABORATORIES STANDARDS FOR ELECTRICAL LIGHTING FIXTURES AND THE STATE AND LOCAL ENERGY CODES.

D. ALL FIXTURES SHALL BE INDEPENDENTLY MOUNTED FROM BLACK IRON OR BUILDING STRUCTURE AS REQUIRED AND NOT FROM CEILING GRID. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION OF CEILING CONSTRUCTION TYPES WITH LIGHTING FIXTURES. FIXTURES SHALL BE PROVIDED FOR OPERATION WITH PROPER VOLTAGE CHARACTERISTICS. REFER TO PLANS FOR INFORMATION.

E. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND QUANTITIES OF LIGHTING FIXTURES.

17. TELEPHONE/ DATA CONDUIT SYSTEM:

A. PROVIDE COMPLETE SYSTEM OF: EMPTY CONDUIT, PULL BOXES, OUTLETS, SLEEVES AND PULL WIRES.

B. EQUIPMENT AND INSTALLATION SHALL CONFORM TO REQUIREMENTS OF TELEPHONE COMPANY AND TELECOMMUNICATION SPECIFICATIONS.

a. OUTLETS SHALL BE:

- WALL: 4 IN. SQUARE WITH REDUCER RING. COVER PLATE PROVIDED INTEGRAL WITH OUTLET DEVICE. BLANK OFF WHERE NO DEVICE IS INSTALLED.

C. CONDUIT SHALL BE 3/ 4 IN. MINIMUM. FURNISH EMPTY CONDUIT FROM OUTLET TO NEAREST ACCESSIBLE HUNG CEILING OR AS NOTED. TERMINATE OPEN END WITH INSULATED BUSHING. INSTALL PULLWIRES IN ALL CONDUITS.

18. ELECTRICAL TESTING:

A. PROVIDE ALL NECESSARY METERS, INSTRUMENTS, TEMPORARY WIRING, AND LABOR TO TEST AND ADJUST ALL EQUIPMENT AND WIRING INSTALLED AND/ OR CONNECTED UNDER THIS CONTRACT, INCLUDING ELECTRICAL EQUIPMENT FURNISHED BY OTHERS. TO DETERMINE PROPER POLARITY, PHASING, FREEDOM FROM GROUNDS AND SHORTS AND OPERATION OF EQUIPMENT. ALL MEASURING INSTRUMENTS MUST BE PROPERLY CALIBRATED.

B. WHENEVER THE AUTHORITIES HAVING JURISDICTION REQUIRE THAT ANY WORK BE TESTED OR APPROVED, CONTRACTOR SHALL PROVIDE PROPER FACILITIES FOR ACCESS FOR INSPECTION.

C. CHECK ALL LIGHTING FIXTURES AND RECEPTACLES FOR PROPER OPERATION.

D. MOTORS:

a. MAKE THE FOLLOWING TESTS ON THE MOTORS BEFORE STATING UP:

- CHECK MOTOR NAMEPLATE FOR HORSEPOWER, SPEED AND PHASE AND VOLTAGE.

b. MAKE THE FOLLOWING TESTS ON ALL MOTORS DURING OR IMMEDIATELY AFTER START UP.

- CHECK SHAFT ROTATION: CHECK BEARING TEMPERATURE: CHECK MOTOR FOR SMOOTH OPERATION.
- TAKE A CURRENT READING OF FULL LOAD USING A CLAMP ON ANMETER, IF AMMETER READING IS OVER THE RATED FULL LOAD CORRECT. DETERMINE THE REASON FOR THE DISCREPANCY AND TAKE THE NECESSARY CORRECTIVE ACTION.
- FOLLOWING ESTABLISHED PROCEDURES EQUIPMENT SHALL BE ENERGIZED AFTER CERTIFICATIONS BY THE CONTRACTOR THAT THE INSTALLATIONS SATISFACTORY. ALL MOTORS AND EQUIPMENT SHALL BE TESTED FOR PROPER OPERATION.
- OVERLOAD ELEMENTS IN MOTOR STARTERS SHALL BE ADJUSTED AND CHECKED FOR SUITABLY TO THE MOTOR CHARACTERISTICS. CONTRACTOR SHALL REPLACE ANY OVERLOADING ELEMENT THAT IS INADEQUATE. THE CAUSE OF ANY MOTOR OPERATING ABOVE FULL LOAD RATING SHOULD BE INVESTIGATED AND THE CAUSE SHOULD BE REMOVED INSTEAD OF INCREASING THE OVERLOAD RELAY TRIP RATING. THESE OPERATIONAL TESTS SHALL DETERMINE THAT THE INSTALLATION IS CORRECT.

E. AFTER ALL ADJUSTMENTS ARE COMPLETE, TAKE CURRENT READINGS AT FULL LOAD USING A CLAMP ON AMPROBE AND SUBMIT TO ENGINEERING FOR REVIEW AND APPROVAL.

F. CHECK ALL SYSTEM AND EQUIPMENT GROUNDS FOR PROPER VALUE OF RESISTANCE USING THE MEGER GROUND TESTER IN ACCORDANCE WITH MANUFACTURERS STANDARD INSTRUCTION. TEST INSULATION RESISTANCE OF ALL NEW AND AFFECTED EXISTING FEEDERS PRIOR TO ENERGIZING.

19. FIRE STOPPING:

A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION SPECIFICATION SECTIONS, APPLY TO WORK OF THIS SECTION

B. PROVIDE ALL REQUIRED FIRE-STOPPING. WORK INCLUDES FIRE STOPPING PENETRATIONS OF FIRE-RESISTANCE RATED FLOORS, WALLS AND PARTITIONS IN NEW CONSTRUCTION, AS WELL AS PRE-EXISTING PENETRATIONS IN RENOVATION AREAS OF EXISTING CONSTRUCTION.

C. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA FOR EACH FIRE-STOPPING PRODUCT REQUIRED, INCLUDING INSTRUCTIONS FOR SUBSTRATE PREPARATION AND FIRE-STOPPING INSTALLATION.

D. FIRE RESISTANT JOINT SEALERS: PROVIDE MANUFACTURER'S STANDARD FIRE-STOPPING SEALANT WITH ACCESSORY MATERIALS, HAVING FIRE RESISTANCE RATINGS INDICATED AS ESTABLISHED BY TESTING IDENTICAL ASSEMBLIES PER ASTM E814 BY UNDERWRITERS LABORATORY, INC. OR OTHER TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

E. MATERIALS - PROVIDE THE FOLLOWING:

a. ONE-PART FIRE-STOPPING SEALANT: ONE [ART LATEX BASED INTUMESCENT SEALANT FORMULATED FOR USE IN A THROUGH-PENETRATION FIRE-STOP SYSTEM FOR SEALING OPENINGS AROUND CABLES, CONDUIT, PIPES AND SIMILAR PENETRATIONS THROUGH WALLS AND FLOORS. ACCEPTABLE PRODUCTS/ MANUFACTURES INCLUDE THE FOLLOWING.

- SPEC SEAL LC150 SERIES
- HILTI FSONE

20.DEMONSTRATION OF COMPLETE ELECTRICAL SYSTEMS:

A. SUBMIT WRITTEN CERTIFICATION THAT ELECTRICAL SYSTEMS ARE COMPLETE AND OPERATIONAL. SUBMIT CERTIFICATION WITH CONTRACTORS REQUEST FOR FINAL REVIEW.

a. AT THE TIME OF FINAL REVIEW OF ELECTRICAL WORK, DEMONSTRATE THE OPERATION OF ELECTRICAL SYSTEMS. FURNISH LABOR, APPARATUS AND EQUIPMENT FOR SYSTEMS DEMONSTRATION. THE VARIOUS TEST SHALL BE WITNESSED BY AND THE OWNER OF HIS REPRESENTATIVE.

B. THE CONTRACTOR SHALL FURNISH ALL TEST EQUIPMENT, MATERIALS, LABOR, AND TEMPORARY POWER HOOK-UPS TO PERFORM START-UP AND ALL TESTS AS REQUIRED OBTAINING FINAL FIELD ACCEPTANCE FROM OWNER. ALL TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE OWNER OR HIS REPRESENTATIVE. ALL TEST PROCEDURES SHALL CONFORM TO THIS SPECIFICATION AND APPLICABLE ANSI, IEEE, NAME, OSHA, NEPA, ETC. STANDARDS.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTS AND TEST RECORD. TESTING SHALL BE PREFORMED BY AND UNDER THE IMMEDIATE SUPERVISION OF THE CONTRACTOR. TEST RECORD SHALL BE KEPT FOR EACH PIECE OF EQUIPMENT. COPIES SHALL BE FURNISHED TO THE ENGINEER FOR REVIEW AND/ OR APPROVAL.

D. A VISUAL INSPECTION OF ALL ELECTRICAL EQUIPMENT, TO CHECK FOR THE FOREIGN MATERIAL TIGHTNESS OR WIRING AND CONNECTION, PROPER GROUND, MATCHING NAMEPLATE CHARTS WITH SPECIFICATION, ETC., SHALL BE MADE PRIOR TO ACTUAL TESTING.

CERTIFICATION:

HURRICANE HILL DEVELOPMENT COMPANY PLLC
1042 HURRICANE HILL ROAD
MASON, NH 03048-1726
PHONE: 508-735-5471
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Professional Electrical Engineering

BOB'S Discount Furniture.
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MELBOURNE, FL 32904

REVISION DATES

NO.	DATE	TYPE

ISSUE DATES

TYPE	DATE
PERMIT/CONSTRUCTION SET	08/14/26

DRAWN BY
CHECKED BY

PROJECT NUMBER 5522012

DATE 08/14/2026

SHEET TITLE: ELECTRICAL SPECIFICATIONS

SHEET NUMBER: E11.1

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Bob's Discount Furniture - Melbourne, FL
Project Type: New Construction

Construction Site:
3401 W New Haven Ave
Melbourne, Florida 32904

Owner/Agent:
Tim Lucas
Bob's Discount Furniture
435 Tolland Turnpike
Manchester, Connecticut 06042
860-319-2219
tim.lucas@mybobs.com

Designer/Contractor:
Michael Kapopoulos
H2DC
1042 Hurricane Hill Road
Mason, New Hampshire 03048
508-735-5471
mikek@new-horiz.com

Additional Efficiency Package(s)

Credits: 10.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Furniture Store (Retail)	45132	0.84	37911
		Total Allowed Watts =	37911

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Furniture Store (Retail)				
LED: A: 2' x 2' lay-in: Other:	1	18	37	666
LED: B: High Bay: Other:	1	49	92	4508
LED: C: 1' x 8' Strip: Other:	1	26	65	1690
LED: B1: Decorative Cylinder: Other:	1	258	58	14964
LED: D: 1' x 4' Strip: Other:	1	8	40	320
Furniture Store: TRK-1: Sales Floor Display: Wattage based on current limiting device capacity	0	0	14700	14700
			Total Proposed Watts =	36848

Interior Lighting PASSES: Design 3% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title: MICHAEL KAPOPOULOS, PRINC.
Signature:
Date: 8-12-26

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2021 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

Text In the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 (PR4)[1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406 (PR9)[1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1 (EL22)[1]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1, C405.2.1.1 (EL18)[1]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1.2 (EL19)[1]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.1.3 (EL20)[1]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) general lighting in each zone permitted to turn on upon occupancy in control zone, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.2, C405.2.2.1 (EL21)[1]	Each area not served by occupancy sensors (per C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.4, C405.2.4.1, C405.2.4.2 (EL23)[1]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces. C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.5 (EL27)[1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.7 (EL26)[1]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.8 (EL27)[1]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.9.1, C405.9.2 (EL28)[1]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.10 (EL29)[1]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.1.1 (EL30)[1]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.11, C405.11.1 (EL31)[1]	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.12 (EL32)[1]	Buildings with gross conditioned floor area > 25,000 ft2 will be equipped with a energy monitoring system in compliance with C405.12.1 through C405.12.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 (FI17)[1]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.1.1 (FI57)[1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5 (FI16)[1]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.3 (FI33)[1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

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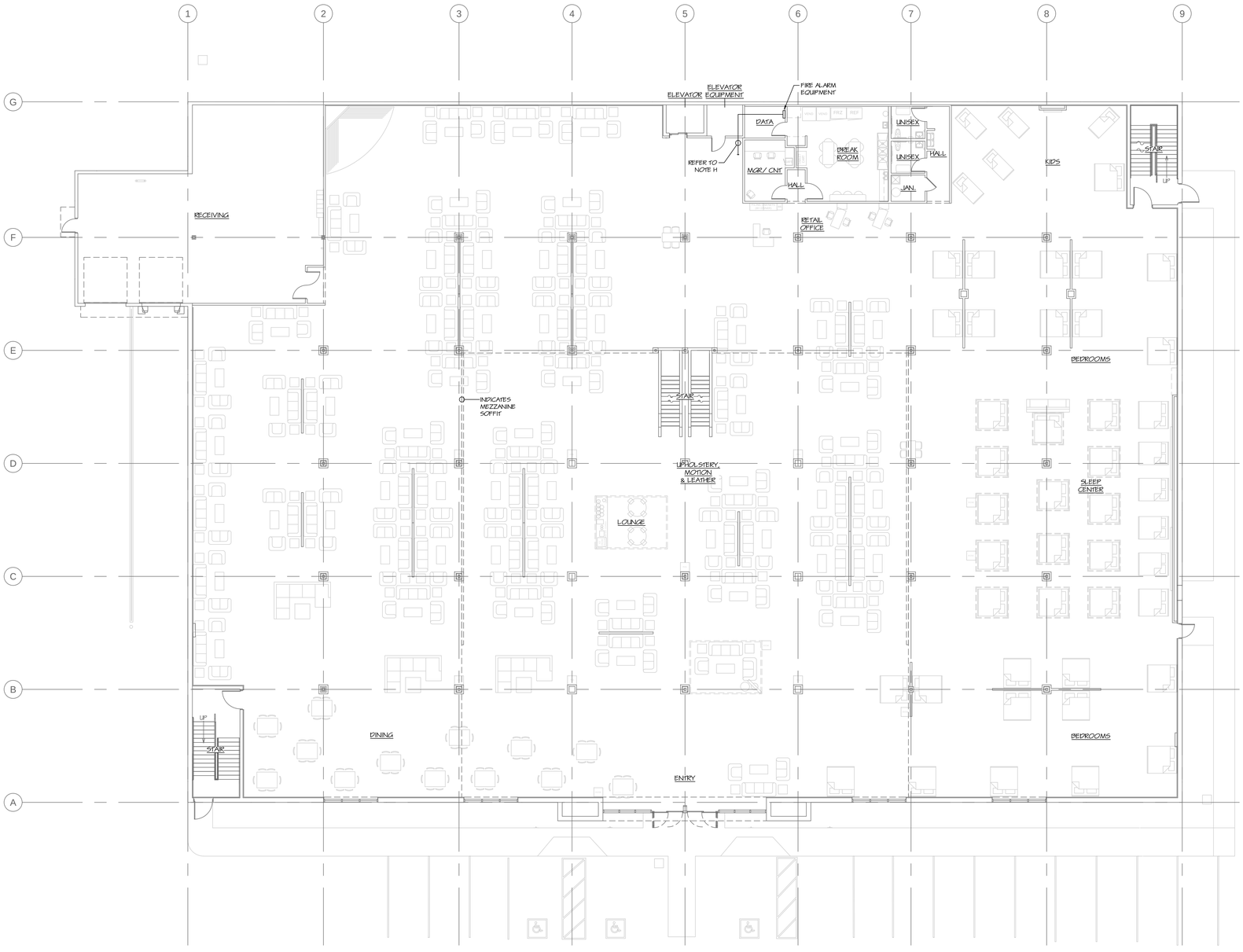
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CHECKED BY

PROJECT NUMBER
5522012

DATE
08/14/2026

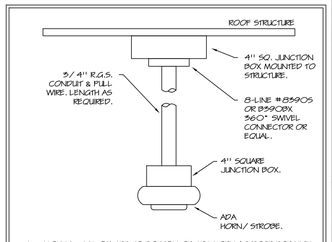
SHEET TITLE
LIGHTING COMCHECK

SHEET NUMBER
E12.1



FIRST FLOOR FIRE ALARM PERFORMANCE SPECIFICATIONS

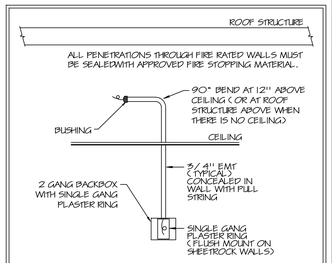
SCALE 3/32" = 1'-0"



1. MOUNT @ 14'-0" AFF TO BOTTOM OF ADA HORN/ STROBE FOR HIGH OPEN AREA & 10'-0" AFF UNDER & ON SECOND FLOOR.
2. FURNISH & INSTALL ADDITIONAL SEISMIC BRACING AS REQUIRED.
3. ALL CONDUIT & BOXES SHALL BE PAINTED TO MATCH STRUCTURE ABOVE. OBTAIN PAINT CHIP COLOR FROM BDF PROJECT MANAGER.
4. ALL DEVICES IN SALES AREAS SHALL BE PENDENT MOUNTED.

ADA HORN/ STROBE PENDENT MOUNTING DETAIL

NO SCALE



WALL MTD. DEVICE RACEWAY DETAIL

NO SCALE

FIRE ALARM SYSTEM PERFORMANCE SPECIFICATIONS:

- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH AND INSTALL A NEW FIRE ALARM SYSTEM CONFORMING TO ALL LOCAL, STATE AND FEDERAL CODES AND ORDINANCES. INSTALLATION SHALL ALSO CONFORM TO REQUIREMENTS MANDATED BY LOCAL AUTHORITIES HAVING JURISDICTION (AHJ) . UTILIZE OR INTERCONNECT TO THE BASE BUILDING (LANDLORD) FIRE ALARM SYSTEM IF REQUIRED.
- THE FIRE ALARM SYSTEM SHALL BE NON-PROPRIETARY (OPEN PROTOCOL) CAPABLE OF BEING WORKED ON BY ANY FIRE ALARM CONTRACTOR. THE FIRE ALARM SYSTEM SHALL BE MANUFACTURED BY FIRELITE. THE FIRE ALARM CONTROL PANEL SHALL BE A FIRELITE #ES-2CCX. THE FIRE ALARM CONTROL PANEL SHALL BE LOCATED IN THE DATA ROOM NEXT TO ENTRANCE DOOR OR AT LOCATION OTHERWISE DIRECTED BY AHJ. MONITORING SHALL BE PROVIDED BY A BDF'S DISCOUNT FURNITURE (BDF) PREFERRED MONITORING COMPANY; MONITORING COMPANY TBD ON A PER-STORE BASIS BY BDF.
- FURNISH AND INSTALL A DUAL PATH COMMERCIAL FIRE CELLULAR COMMUNICATOR, MANUFACTURED BY NAPCO SECURITY TECHNOLOGIES STARLINK FIRE OR AHJ APPROVED EQUAL. FURNISH AND INSTALL AN EXTENSION ANTENNA ON THE ROOF TO BOOST CELL SIGNAL TO ACCEPTABLE SIGNAL LEVEL APPROVED BY AHJ. THE FOLLOWING COMMUNICATION MODES SHALL BE AS FOLLOWS, IN ORDER OF PREFERENCE:

  OPTION #1:
  OUTPUT 1 - CELLULAR
  OUTPUT 2 - CELLULAR

  OPTION #2:
  OUTPUT 1 - CELLULAR
  OUTPUT 2 - IP

LOCATE THE COMMUNICATOR NEXT TO THE FACP. ALL PROGRAMMING SHALL BE DONE BY THIS CONTRACTOR. BDF MONITORING COMPANY SHALL PAY FOR ALL MONTHLY / ANNUAL CELLULAR FEE CHARGES. THIS CONTRACTOR SHALL CONTACT THE AHJ UPON AWARD OF CONTRACT AND CONFIRM WHICH OPTION IS ACCEPTABLE. ALERT BDF PM IF PREFERRED OPTION (CELLULAR PRIMARY - CELLULAR SECONDARY) IS NOT ACCEPTABLE BY AHJ, WITHIN THE FIRST WEEK OF THE START OF CONSTRUCTION, SO BDF P.M. CAN PLAN ACCORDINGLY.

MISCELLANEOUS REQUIREMENTS:

1. ALL SALES FLOOR AUDIO / VISUAL DEVICES SHALL BE PENDENT MOUNTED PER DETAIL. NO WALL MOUNTED DEVICES ALLOWED ON SALES FLOOR. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE INSTALL, INCLUDING CONDUIT, BOXES, PAINTING (NOT CABLE) , ETC.
2. ALL FIRE ALARM CABLE MUST BE RED IN COLOR AND SHALL NOT BE PAINTED IN THE FIELD.
3. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL PORTIONS OF DUCT SMOKE DETECTOR SYSTEM, INCLUDING BUT BY NO MEANS LIMITED TO, DUCT SMOKE DETECTORS, SAMPLING TUBES, MODULES, RTU SHUT-DOWN WIRING, RTU SHUT-DOWN CONNECTIONS, ETC. THIS CONTRACTOR SHALL HIRE THE MECHANICAL CONTRACTOR TO PERFORM FINAL CONNECTIONS AT RTU'S IF REQUIRED. DUCT SMOKE DETECTORS SHALL BE INSTALLED INSIDE OF RESPECTIVE RTU, NOT ON UNDERSIDE IN SALES AREA. REFER TO RTU MANUFACTURERS SPECIFICATIONS FOR RECOMMENDED DUCT SMOKE DETECTOR LOCATION'S) .

- THE FOLLOWING ARE MINIMUM BDF STANDARDS REQUIRED SHOULD CODES AND LOCAL AUTHORITIES NOT REQUIRE A FULL SCALE FIRE ALARM SYSTEM.

A. MONITORING AND WIRING OF ALL SPRINKLER SYSTEM DEVICES, INCLUDING TAMPER SWITCHES, FLOW SWITCHES, PIV VALVES, WATER GONGS, AUDIO / VISUAL DEVICES, ETC.

B. IF A REMOTE ANNUNCIATOR IS REQUIRED, LOCATE OVER BURGLAR ALARM SYSTEM KEYPAD IN FRONT OF STORE IF AMENABLE TO LOCAL AUTHORITIES HAVING JURISDICTION.

C. COMPLETE ADA HORN / STROBE COVERAGE IN CONFORMANCE WITH NFPA SPACING REQUIREMENTS.

D. SYSTEM SMOKE DETECTOR LOCATED OVER THE FIRE ALARM CONTROL PANEL.

E. ONE (1) DUCT SMOKE DETECTOR ON THE RETURN SIDE (AND / OR ON THE SUPPLY SIDE IF REQUIRED) OF EACH RTU OF 2,000 CFM (5 TONS) OR LARGER. DUCT DETECTORS SHALL BE FURNISHED AND INSTALLED BY THE FIRE ALARM CONTRACTOR (SAME CONTRACTOR PERFORMING SCOPE DESCRIBED HEREIN) , INCLUDING SAMPLING TUBES AND RTU SHUT-DOWN CONTROLS AND WIRING. FURNISH AND INSTALL ONE (1) REMOTE LED INDICATOR LIGHT AND TEST STATION PER DUCT SMOKE DETECTOR. REMOTE LED INDICATOR LIGHT AND TEST STATIONS TO BE LOCATED ON NEAREST COLUMN AT 6' AFF ON THE SIDE OF THE COLUMN FACING THE BACK OF THE STORE. ADJUST LOCATIONS IF REQUIRED BY AHJ. ALL DUCT SMOKE DETECTORS SHALL BE POWERED FROM THE FACP, NOT RTU.

F. FURNISH AND INSTALL A PLAN HOLDER IN LOCATION DIRECTED BY AHJ.

G. FIRE ALARM CONTRACTOR SHALL FURNISH AND INSTALL WIRING FROM FACP TO SOUND SYSTEM SHUNT MODULE LOCATED BEHIND THE DATA RACK INSIDE THE DATA ROOM. CONTROL VIA NC CONTACTOR IN THE FACP. SOUND SYSTEM SHALL SHUT DOWN UPON ACTIVATION OF THE FIRE ALARM SYSTEM. SOUND SYSTEM SHALL ONLY SHUT DOWN VIA AN ALARM ZONE. SOUND SYSTEM SHALL NOT SHUT DOWN UPON ACTIVATION OF A SUPERVISORY / TROUBLE ALARM. SHUNT MODULE SHALL BE FURNISHED AND INSTALLED BY OTHERS.

H. ALL CABLING FROM THE SALES FLOOR TO THE FIRE ALARM CONTROL PANEL IN THE DATA ROOM SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE MOUNTED HIGH IN ROOF STRUCTURE ABOVE. NO OPEN CABLING SHALL BE INSTALLED OVER THE DATA ROOM CEILING.

I. FIRE ALARM CONTRACTOR SHALL FURNISH AND INSTALL CO DETECTORS WHERE REQUIRED BY CODE AND AHJ. CONNECT TO FIRE ALARM SYSTEM.

J. FURNISH AND INSTALL A 1" RIGID CONDUIT PENETRATION THROUGH ROOF FOR ANTENNA. EXTEND UP 3' ABOVE ROOF LINE WITH WEATHERHEAD.

K. INTEGRATE ALL COMPONENTS OF ELEVATOR, INCLUDING BUT NOT LIMITED TO SMOKE DETECTORS, HEAT DETECTORS, ELEVATOR RECALL, ETC.

SAFEGUARD NARRATIVE:

THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN ACTIVE THROUGHOUT THE CONSTRUCTION PHASE. FIRE ALARM CONTRACTOR SHALL NOTIFY THE LOCAL FIRE DEPARTMENT, VIA THE CENTRAL STATION, WHEN THE SYSTEM IS BEING WORKED ON. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EXISTING FIRE ALARM SYSTEM DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO REPROGRAMMING PANEL AS REQUIRED FOR REMOVAL OR RELOCATION OF EXISTING DEVICES DURING DEMOLITION / CONSTRUCTION PHASE.

CERTIFICATION:

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H2DC PLLC
Professional Electrical Engineering

BOB'S Discount Furniture

3401 W NEW HAVEN AVE.
MELBOURNE, FL 32904

REVISION DATES

NO.	DATE	TYPE

ISSUE DATES

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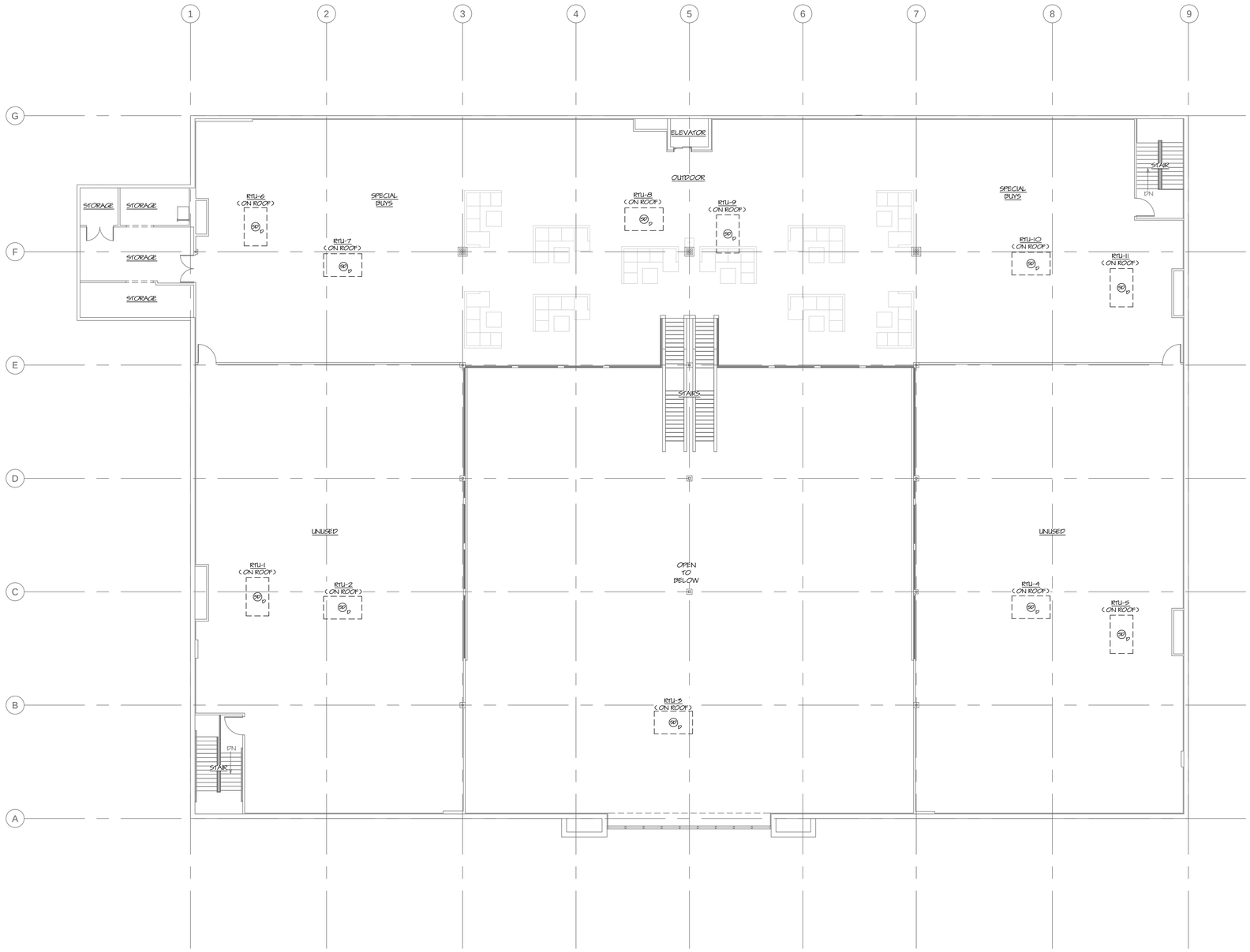
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PROJECT NUMBER
5522012

DATE
08/14/2026

SHEET TITLE
FIRST FLOOR FIRE ALARM PERFORMANCE SPECIFICATIONS

SHEET NUMBER
FA1.1



SECOND FLOOR FIRE ALARM PERFORMANCE SPECIFICATIONS

SCALE 3/32" = 1'-0"

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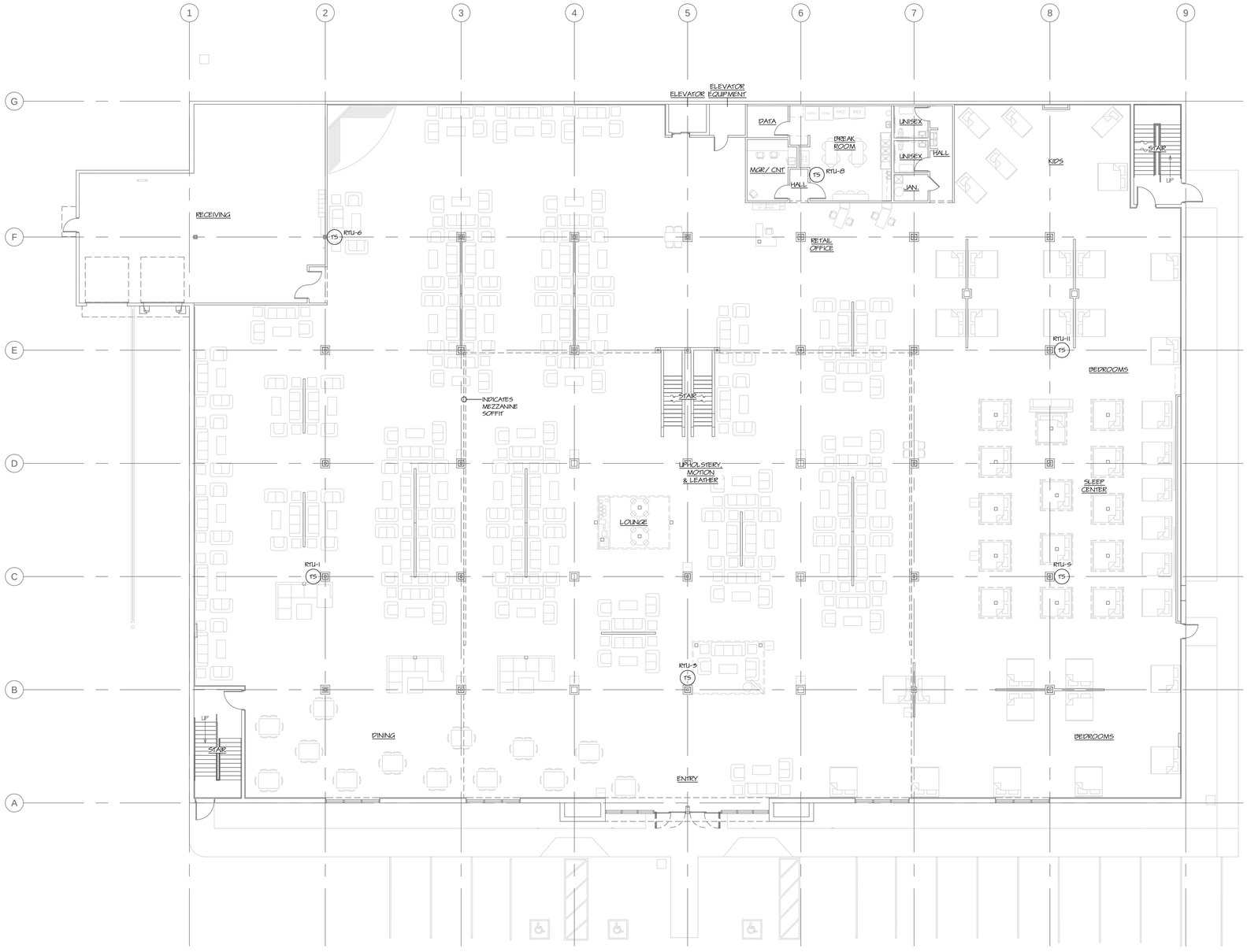
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SHEET TITLE
SECOND FLOOR FIRE ALARM PERFORMANCE SPECIFICATIONS

SHEET NUMBER
FA1.2



FIRST FLOOR ENERGY MANAGEMENT SYSTEM PLAN

SCALE 3/32" = 1'-0"

ENERGY MANAGEMENT SYSTEM NOTES:

1. EXISTING THERMOSTATS SHALL BE DISCONNECTED AND REMOVED AFTER EMS SYSTEM IS OPERATIONAL.
2. EC SHALL FURNISH AND INSTALL A BACKBOX AND 3/4" CONDUIT STUB-UP FOR ALL HVAC SENSORS.

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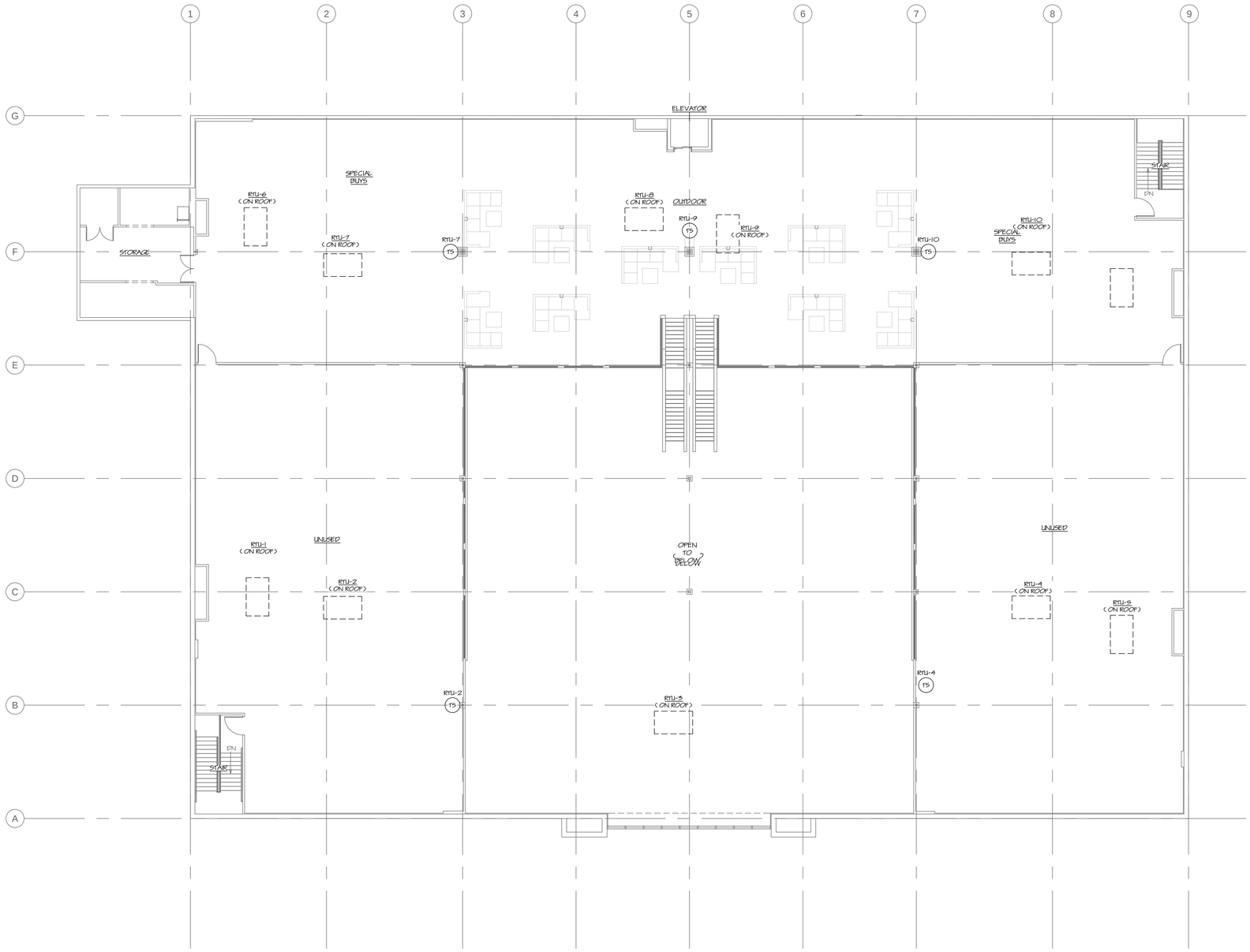
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SHEET TITLE
FIRST FLOOR ENERGY MANAGEMENT SYSTEM PLAN

SHEET NUMBER
EM1.1



SECOND FLOOR ENERGY MANAGEMENT SYSTEM PLAN

SCALE 3/32" = 1'-0"

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SECOND FLOOR ENERGY MANAGEMENT SYSTEM PLAN

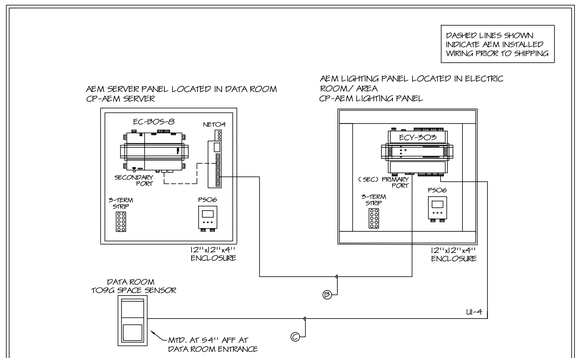
SHEET NUMBER
EM1.2

WIRING SCHEDULE:

- (A) 2 #12 + GND. - 3/4" C.
- (B) CAT6 PLENUM RATED CABLE.
- (C) 18/2 PLENUM RATED CABLE.
- (D) BACnet 22/3, PLENUM RATED, STRANDED AND SHIELDED TYPE CMP CABLE.
- (E) 18/6 PLENUM RATED CABLE.
- (F) 18/8 PLENUM RATED CABLE.
- (G) 16/2 PLENUM RATED CABLE.
- (H) 18/4 PLENUM RATED CABLE.

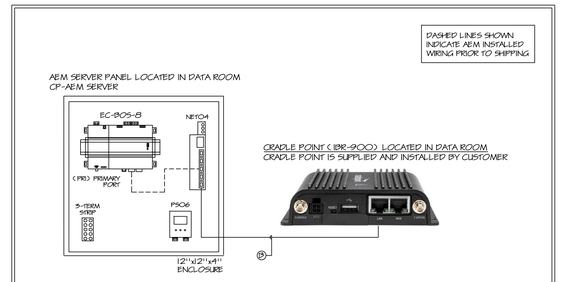
AEM SUPPLIED DEVICES

CP-AEM PANELS	CONTROL PANEL ENCLOSURE (TYP. FOR 2)	12"W x 12"W x 4" HC
EC-BOS8	DISTECH WEB BASED SERVER AND GRAPHIC FRONT END	CDDI-BOS8USWF1
ECY-305	DISTECH ECLYPSE PROGRAMMABLE CONTROLLER (8-UI, 4-DO, 4-OU)	CDIY-305-IMP-01
HTO5A	OUTSIDE AIR SENSOR FOR TEMPERATURE / HUMIDITY (20-10VDC)	BA/ IOK-2-HRO-D-WP
TO9G	WALL MOUNTED SPACE TEMPERATURE SENSOR	BA/ IOK-2-R-Z-CG
TR23	CONTROL TRANS. (120 TO 24VAC, 50VA, FUSED)	TRSOVAC05
TSC5	WIRE TERMINATION TERMINAL STRIP (5-TERM)	109
PSC6	24 VDC POWER SUPPLY	BA/ VCS50A-EZ-AD1
NET04	NETWORK SWITCH 5-PORT PANEL MOUNT	11-ES10



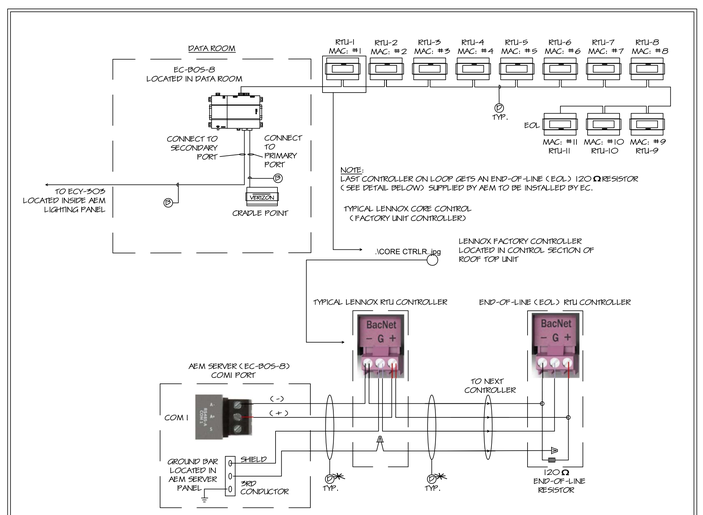
AEM LIGHTING CONTROLLER CAT6 NETWORK & IT ROOM SPACE SENSOR WIRING DETAIL #3

NOT TO SCALE



AEM EC-BOS SERVER CAT6 CRADLE POINT NETWORK WIRING DETAIL #2

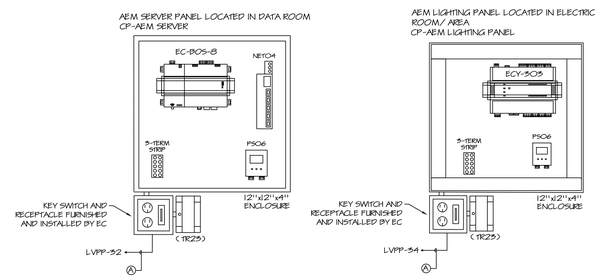
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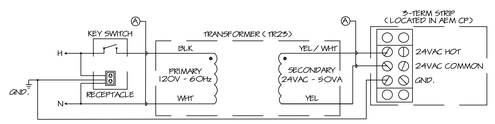


* GROUND 3RD CONDUCTOR AND SHIELD ONLY IN AEM SERVER PANEL. GROUNDING IN ANY OTHER LOCATION WILL CAUSE COMMUNICATION ISSUES. 3RD CONDUCTOR SHALL BE CONNECTED VIA A WIRE NUT AT EACH RTU LOCATION AS SHOWN.

ROOFTOP UNIT (RTU) BACNET NETWORK WIRING DETAIL #4

NOT TO SCALE





TRANSFORMER KEY SWITCH AND RECEPTACLE WIRING DETAIL (TYPICAL FOR BOTH CONTROL PANELS)

KEY SWITCH & RECEPTACLE INFORMATION:

- 4" SQUARE METAL BACKBOX.
- 20A-120V. DUPLEX RECEPTACLE
- KEY SWITCH: BRYANT 480I-L INDUSTRIAL GRADE SINGLE POLE, 20A-120/ 277V.

AEM CONTROL PANEL & POWER WIRING DETAIL #1

NOT TO SCALE

ELECTRICAL CONTRACTOR (EC)

SUMMARY:

- EC SHALL INSTALL ALL AEM & LENNOX SUPPLIED DEVICES. EC SHALL FURNISH AND INSTALL ALL WIRING AND TERMINATIONS OF THE AEM SYSTEM AS DESCRIBED IN THE AEM INSTALLATION DETAILS. EC SHALL FURNISH AND INSTALL ALL ELECTRICAL MATERIALS FOR THE INSTALLATION OF THE AEM SYSTEM.
- EC SHALL FOLLOW EACH OF THE (8) AEM PROJECT DETAILS IN SEQUENTIAL ORDER STARTING WITH INSTALLATION DETAIL #1 THROUGH INSTALLATION DETAIL #8 – THE FOLLOWING IS A SUMMARY OF EACH INSTALLATION DETAIL:

INSTALLATION DETAIL #1 (AEM CONTROL PANEL INSTALLATION AND POWER WIRING):

- STEP #1: READ ALL THE INSTALLATION NOTES AND DETAILS.
- STEP #2: INSTALL THE AEM CP-AEM SERVER & CP-AEM LIGHTING CONTROL PANELS, TRANSFORMER, KEY SWITCH AND RECEPTACLE AT THE LOCATIONS DESCRIBED. (EC TO FURNISH AND INSTALL THE KEY SWITCH AND RECEPTACLE).
- STEP #3: PROVIDE POWER WIRING AS DESCRIBED TO EACH AEM PANEL.

INSTALLATION DETAIL #2 (AEM EC-BOS SERVER CAT6 CRADLE POINT NETWORK WIRING):

- STEP #1: READ ALL THE INSTALLATION NOTES AND DETAILS.
- STEP #2: FURNISH AND INSTALL CAT6 CABLE WITH CONNECTORS FROM THE CP-AEM SERVER PANEL TO CUSTOMER PROVIDED CRADLE POINT.

INSTALLATION DETAIL #3 (AEM LIGHTING CONTROLLER CAT6 NETWORK & IT ROOM SPACE SENSOR WIRING):

- STEP #1: READ ALL THE INSTALLATION NOTES AND DETAILS.
- STEP #2: FURNISH AND INSTALL CAT6 CABLE WITH CONNECTORS FROM THE CP-AEM SERVER PANEL TO CP-AEM LIGHTING PANEL.
- STEP #3: INSTALL SPACE SENSOR (T9QG) INSIDE THE DATA ROOM AND PROVIDE WIRING AND TERMINATION BACK TO THE AEM LIGHTING CONTROLLER ECY-305.

INSTALLATION DETAIL #4 (ROOFTOP UNIT (RTU) BACNET NETWORK WIRING INSTALLATION):

- STEP #1: READ ALL THE INSTALLATION NOTES AND DETAILS.
- STEP #2: FURNISH AND INSTALL BACNET CABLE 22AWG, 3-CONDUCTOR SHIELDED PLENUM RATED U.L. TYPE CMP CABLE.
- STEP #3: WIRE AS SHOWN ON THE DRAWING FROM THE AEM EC-BOS8 COM1 TO EACH OF THE ROOFTOP UNITS – WIRING MUST BE DONE IN A DAISY CHAIN FASHION OR THERE WILL BE COMMUNICATION PROBLEMS – MAINTAIN (+) & (-) POLARITY ON EACH DEVICE. GROUNDING OF THE SHIELD AND THE 3RD CONDUCTOR AS SHOWN MUST ONLY BE GROUNDED AT THE AEM SERVER – IF THE SHIELD OR THE 3RD CONDUCTOR BECOMES GROUNDED IN ANY OTHER LOCATION THERE WILL BE COMMUNICATION PROBLEMS.
- STEP #4: INSTALL AEM SUPPLIED 120 OHM END OF LINE (EOL) RESISTOR AS SHOWN ON DETAIL ON THE LAST CONTROLLER IN THE DAISY CHAIN COMMUNICATION LOOP – IF THE RESISTOR IS NOT INSTALLED THERE WILL BE COMMUNICATION PROBLEMS.
- STEP #5: CHECK CONTINUITY OF THE SHIELD AND THE 3RD WIRE – BY REMOVING THEM FROM THE AEM SERVER GROUND – WITH AN OHM METER MAKE SURE THAT THE WIRES ARE NOT GROUNDED AT THE AEM SERVER AND THE (EOL) CONTROLLER – PLACE THE SHIELD AND 3RD CONDUCTOR BACK ON THE AEM SERVER GROUND AND MAKE SURE THE SHIELD AND THE 3RD CONDUCTOR ARE GROUNDED AT THE (EOL) CONTROLLER.

INSTALLATION DETAIL #5 (ROOFTOP UNIT (RTU) SENSOR WIRING INSTALLATION):

- STEP #1: READ ALL THE INSTALLATION NOTES AND DETAILS.
- STEP #2: INSTALL SPACE SENSOR AS SHOWN ON THE PROJECT PLANS FOR EACH ROOFTOP UNIT. SENSORS ARE PROVIDED BY THE ROOFTOP UNIT MANUFACTURER. PROVIDE WIRING AND TERMINATIONS BACK TO THE LENNOX ROOFTOP UNIT FACTORY CONTROLLER AS SHOWN ON THE INSTALLATION DETAIL.

INSTALLATION DETAIL #6 (OUTSIDE AIR & PHOTOCELL SENSOR WIRING & INSTALLATION):

- STEP #1: READ ALL THE INSTALLATION NOTES AND DETAILS.
- STEP #2: INSTALL AEM SUPPLIED OUTSIDE AIR & PHOTOCELL SENSORS (HTO5A & PCO1) AS SHOWN ON THE INSTALLATION DETAIL. PROVIDE WIRING AND TERMINATIONS BACK TO THE AEM LIGHTING CONTROLLER AS SHOWN ON THE INSTALLATION DETAIL.

INSTALLATION DETAIL #7 (SECURITY PANEL / LIGHTING CONTROLLER BOSCH BSO8 OCTO OUTPUT WIRING):

- STEP #1: READ ALL THE INSTALLATION NOTES AND DETAILS.
- STEP #2: THE BSO8 OCTO OUTPUT MODULE IS PROVIDED AND INSTALLED BY OTHERS. PROVIDE WIRING AND TERMINATIONS FROM THE BSO8 TO THE AEM LIGHTING CONTROLLER AS SHOWN.

INSTALLATION DETAIL #8 (OVERRIDE SWITCHES WIRING DETAIL):

- STEP #1: READ ALL INSTALLATION NOTES AND DETAILS.
- STEP #2: THE MOMENTARY CONTACT SWITCHES SHALL BE FURNISHED, INSTALLED AND WIRED BY EC. PROVIDE WIRING AND TERMINATIONS TO THE AEM LIGHTING CONTROLLER AS SHOWN.

MECHANICAL CONTRACTOR (MC) & LIGHTING CONTROL CONTRACTOR (EC)

SUMMARY:
THE MECHANICAL CONTRACTOR (MC) SHALL PROVIDE THE BACNET MAC ADDRESSING AND DEVICE ID ADDRESSING OF EACH OF THE ROOFTOP UNITS. MAC ADDRESS AND DEVICE ID ADDRESSING SHALL MATCH THE ROOFTOP UNIT NUMBER – IE: RTU-1 SHALL BE MAC ADDRESS #1 AND DEVICE ID #1, EC SHALL PROVIDE THE SAME ADDRESSING AS DESCRIBED ABOVE FOR THE LIGHTING AND POWER CONTACTORS/ RELAYS. AEM WILL NOT BE ABLE TO COMMUNICATE TO ANY OF THE ROOFTOP UNITS OR CONTACTORS/ RELAYS UNTIL THE ADDRESSING IS COMPLETED BY EACH CONTRACTOR.

MISCELLANEOUS:

- EC SHALL OBTAIN A COPY OF THE AEM INSTALLATION MANUAL PRIOR TO SUBMITTING BID AND SHALL INCLUDE ALL EQUIPMENT INSTALLATION, WIRING, TERMINATIONS, ETC.
- ALL WIRING & FINAL CONNECTIONS SHALL BE FURNISHED AND INSTALLED BY EC.
- ALL AEM DEVICES ARE FURNISHED BY OTHERS UNLESS INDICATED OTHERWISE. EC SHALL INSTALL ALL DEVICES AND BACKBOXES AS REQUIRED.
- CONTACTORS/ RELAYS SHALL BE INSTALLED AND WIRED BY EC.
- EC SHALL FURNISH AND INSTALL A BACKBOX AND A 3/4" CONDUIT STUB-UP FOR ALL SALES FLOOR DEVICES.

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SHEET TITLE
ENERGY MANAGEMENT SYSTEM DETAILS

SHEET NUMBER
EM1.3

LIGHTING CONTROL SEQUENCE:

EMPLOYEE LEVEL: ON VIA SECURITY SYSTEM KEY PAD
OFF VIA SECURITY SYSTEM KEY PAD

CUSTOMER LEVEL: ON AT 9:00 AM (M-S)
OFF AT 11:00 PM (M-S)
ON AT 10:00 AM (SUNDAY)
OFF AT 8:00 PM (SUNDAY)

LIGHTING CONTROL PARAMETERS:

EMPLOYEE LEVEL - ZONE a (AEM OUTPUT #1):
a. 1/ 2 OF SALES FLOOR TYPE B HIGHBAY LIGHTING
b. TYPE G VESTIBULE LIGHTING
c. POWER WHERE NOTED

CUSTOMER LEVEL - ZONE b (AEM OUTPUT #2):
a. 1/ 2 OF SALES FLOOR TYPE B HIGHBAY LIGHTING
b. ALL TRACK LIGHTING
c. ALL CONTROLLED SALES FLOOR RECEPTACLES

EXTERIOR LIGHTING - GENERAL - ZONE c (AEM OUTPUT #4):
a. ON AT DUSK - OFF AT 11:00 AM

EXTERIOR LIGHTING - SECURITY - ZONE d (AEM OUTPUT #5):
a. ON AT DUSK - OFF AT DAWN.

EXTERIOR SIGNAGE - ZONE e (AEM OUTPUT #5):
a. ON AT DUSK - OFF AT DAWN.

LIGHTING CONTROL NOTES:

1. EC IS RESPONSIBLE TO INSTALL ALL ASPECTS OF THE LIGHTING CONTROL SYSTEM. LIGHTING CONTROL MATERIAL (UNLESS OTHERWISE NOTED) SHALL BE ORDERED VIA BDF NATIONAL ACCOUNT VENDOR AND PAID FOR BY BDF. REFER TO LIGHT FIXTURE SCHEDULE FOR VENDOR INFORMATION.
2. REFER TO ENERGY MANAGEMENT DRAWINGS FOR ADDITIONAL INFORMATION AND WIRING REQUIREMENTS.
3. LIGHTING SCHEDULE HOURS SHOWN ARE BASED ON STORE HOURS OF 10:00 AM - 10:00 PM MONDAY - SATURDAY AND 11:00 AM - 7:00 PM ON SUNDAYS. SHOULD STORE HOURS BE DIFFERENT, ADJUST LIGHTING SCHEDULES ACCORDINGLY. VERIFY STORE HOURS WITH BDF REPRESENTATIVE PRIOR TO PROGRAMMING.
4. SYSTEM SHALL BE WIRED SO UPON ACTIVATION OF SECURITY SYSTEM, EMPLOYEE LEVEL LIGHTING SHALL TURN ON.
5. OVERRIDE SWITCH SHALL BE PROGRAMMED TO TURN ON/ KEEP ON CUSTOMER LEVEL LIGHTING AND POWER FOR AN ADDITIONAL 2 HOURS. LOCATE ON BACK WALL OF SALES COUNTER AND LABEL ACCORDINGLY.
6. EC SHALL INSTALL PHOTOCELL ON ROOF VIA 8' MAST. MAST SHALL BE 1" RIGID, GALVANIZED CONDUIT. FACE PHOTOCELL TOWARDS NORTH SKY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ROOF PENETRATION.
7. EC SHALL SCHEDULE A PRE-CONSTRUCTION MEETING VIA TELEPHONE WITH AEM REP PRIOR TO STARTING WORK. OBTAIN CONTACT INFORMATION FROM BDF PM.

NOTES:

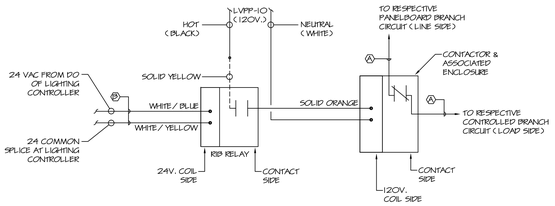
1. RSB RELAYS SHALL BE WIRED AS NORMALLY OPEN SO IT FAILS IN THE OPEN (OFF) POSITION.
2. CONTACTORS SHALL BE WIRED AS NORMALLY CLOSED SO IT FAILS IN THE CLOSED (ON) POSITION. CONTROL COILS SHALL BE 120V.
3. UPSIZE BRANCH CIRCUIT WIRING TO ACCOMMODATE VOLTAGE DROP WHERE REQUIRED.
4. CONTACTORS ARE FURNISHED INDIVIDUALLY. EC SHALL FURNISH AND INSTALL ENCLOSURES AS REQUIRED. LOCATE RSB RELAY IN SAME ENCLOSURE NEXT TO RESPECTIVE CONTACTOR IT IS CONTROLLING. EXACT MOUNTING LOCATIONS SHALL BE DETERMINED IN FIELD.
5. EC SHALL INSTALL A SCHEDULE AT EACH CONTACTOR NOTING PANEL, CIRCUIT NUMBER, CONTROL ZONE AND LOAD DESCRIPTION.
6. DASHED WIRE INDICATES FACTORY INSTALLED.

FEEDER SCHEDULE:

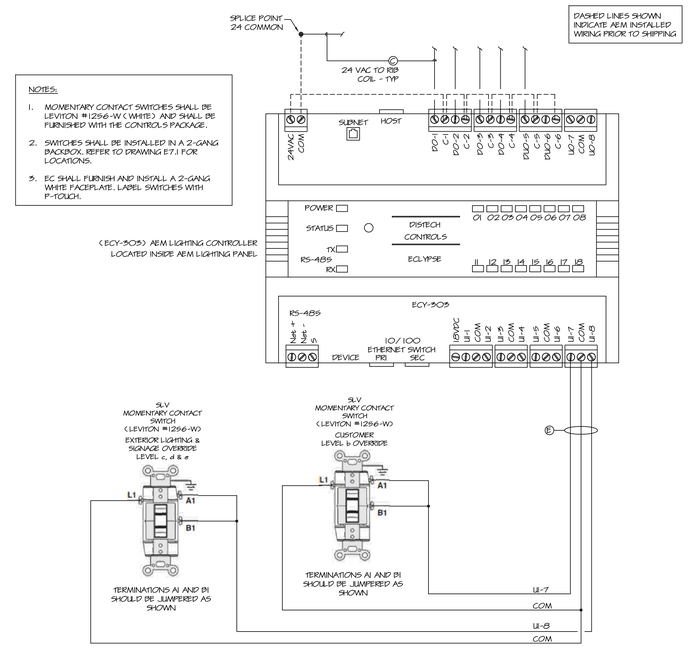
(A)* 2 #12 + #12 GND. - 3/ 4" C.

(B) 18/ 2 CABLE

* #12 IS FOR REFERENCE ONLY. INCREASE SIZE AS REQUIRED TO ACCOMMODATE FOR VOLTAGE DROP.



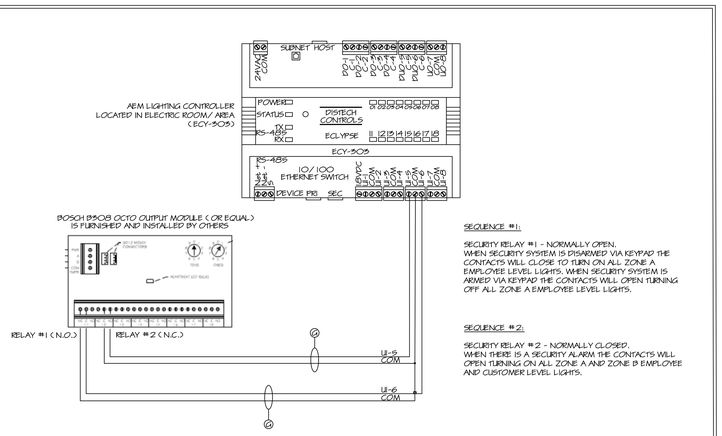
TYPICAL CONTACTOR CONTROL DETAIL
N.T.S.



OVERRIDE SWITCHES WIRING DETAIL #8
NOT TO SCALE

WIRING SCHEDULE:

(A) 2 #12 + GND. - 3/ 4" C.
(B) CAT6 PLENUM RATED CABLE.
(C) 18/ 2 PLENUM RATED CABLE.
(D) BACnet 22/ 3, PLENUM RATED, STRANDED AND SHIELDED TYPE CMP CABLE.
(E) 18/ 6 PLENUM RATED CABLE.
(F) 18/ 8 PLENUM RATED CABLE.
(G) 16/ 2 PLENUM RATED CABLE.
(H) 18/ 4 PLENUM RATED CABLE.



SEQUENCE #1:

SECURITY RELAY #1 - NORMALLY OPEN. WHEN SECURITY SYSTEM IS DISARMED VIA KEYPAD THE CONTACTS WILL CLOSE TO TURN ON ALL ZONE A EMPLOYEE LEVEL LIGHTS. WHEN SECURITY SYSTEM IS ARMED VIA KEYPAD THE CONTACTS WILL OPEN TURNING OFF ALL ZONE A EMPLOYEE LEVEL LIGHTS.

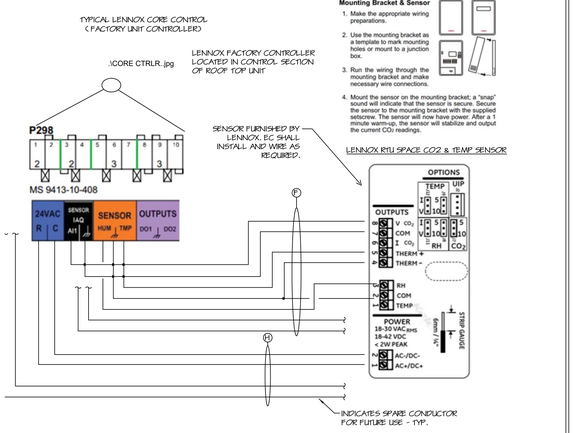
SEQUENCE #2:

SECURITY RELAY #2 - NORMALLY CLOSED. WHEN THERE IS A SECURITY ALARM THE CONTACTS WILL OPEN TURNING ON ALL ZONE A AND ZONE B EMPLOYEE AND CUSTOMER LEVEL LIGHTS.

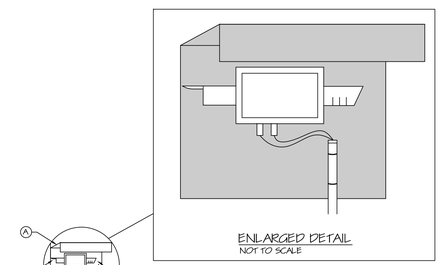
SECURITY PANEL / AEM LIGHTING CONTROLLER - BOSCH B308 OCTO OUTPUT WIRING DETAIL #7
NOT TO SCALE

AEM SUPPLIED DEVICES

CP-AEM PANELS	CONTROL PANEL ENCLOSURE (TYP. FOR 2)	12"x12"x4" HC
EC-BOSB	DISTECH WEB BASED SERVER AND GRAPHIC FRONT END	CDIS-BOSBUSWP1
ECY-303	DISTECH ECLYPSE PROGRAMMABLE CONTROLLER (8-UI, 4-DO, 4-OU)	CDIY-303-IMP-C1
HTO5A	OUTSIDE AIR SENSOR FOR TEMPERATURE / HUMIDITY (0-10VDC)	BA/ ICK-2-H510-O-WP
TOSG	WALL MOUNTED SPACE TEMPERATURE SENSOR	BA/ ICK-2-R-Z-CG
TR2S	CONTROL TRANS. (120 TO 24VAC, 50VA, FUSED)	TR50VACOS
TSO3	WIRE TERMINATION TERMINAL STRIP (3-TERM.)	IC3
PSO6	24 VDC POWER SUPPLY	BA/ VCS50A-EZ-ADJ



ROOFTOP UNIT (RTU) SPACE SENSOR WIRING DETAIL #5
NOT TO SCALE



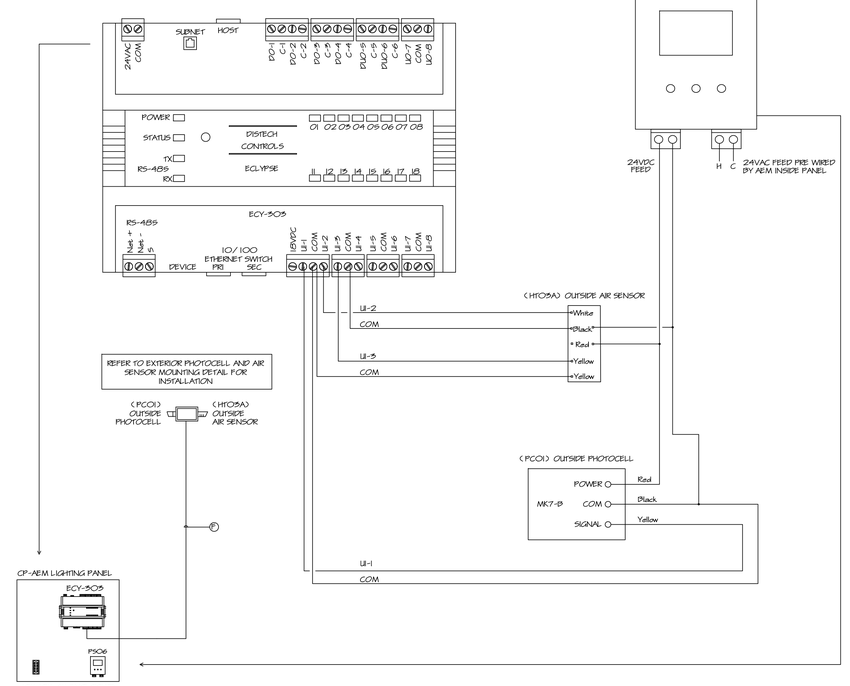
LEGEND:

(A) HEAVY GAUGE STAINLESS STEEL SHIELD
(B) EXTERIOR PHOTOCELL (FURNISHED BY AEM)
(C) HTO5A OUTSIDE AIR SENSOR (FURNISHED BY AEM)
(D) NEMA 3R SINGLE GANG BOX
(E) 1" RIGID CONDUIT WITH BUSHINGS
(F) CABLES WITH WEATHERPROOF CONNECTIONS
(G) MOUNTING BRACKETS AS NEEDED
(H) WEATHERHEAD WITH DRIPLOOP

NOTES:

1. ALL WORK SHOWN SHALL BE FURNISH AND INSTALLED BY EC UNLESS NOTED OTHERWISE.
2. EC SHALL SUPPORT THE 1" CONDUIT FROM STRUCTURE BELOW ROOF.
3. EC SHALL SEAL CONDUIT OPENINGS SO NO WATER ENTERS.
4. PHOTOCELL SENSOR FACE SHALL ALIGN WITH END OF METAL SHIELD.
5. LOCATE MAST ABOVE AEM LIGHTING PANEL.

EXTERIOR PHOTOCELL & AIR SENSOR MOUNTING DETAIL
NOT TO SCALE



OUTSIDE AIR & PHOTOCELL SENSOR WIRING DETAIL #6
NOT TO SCALE

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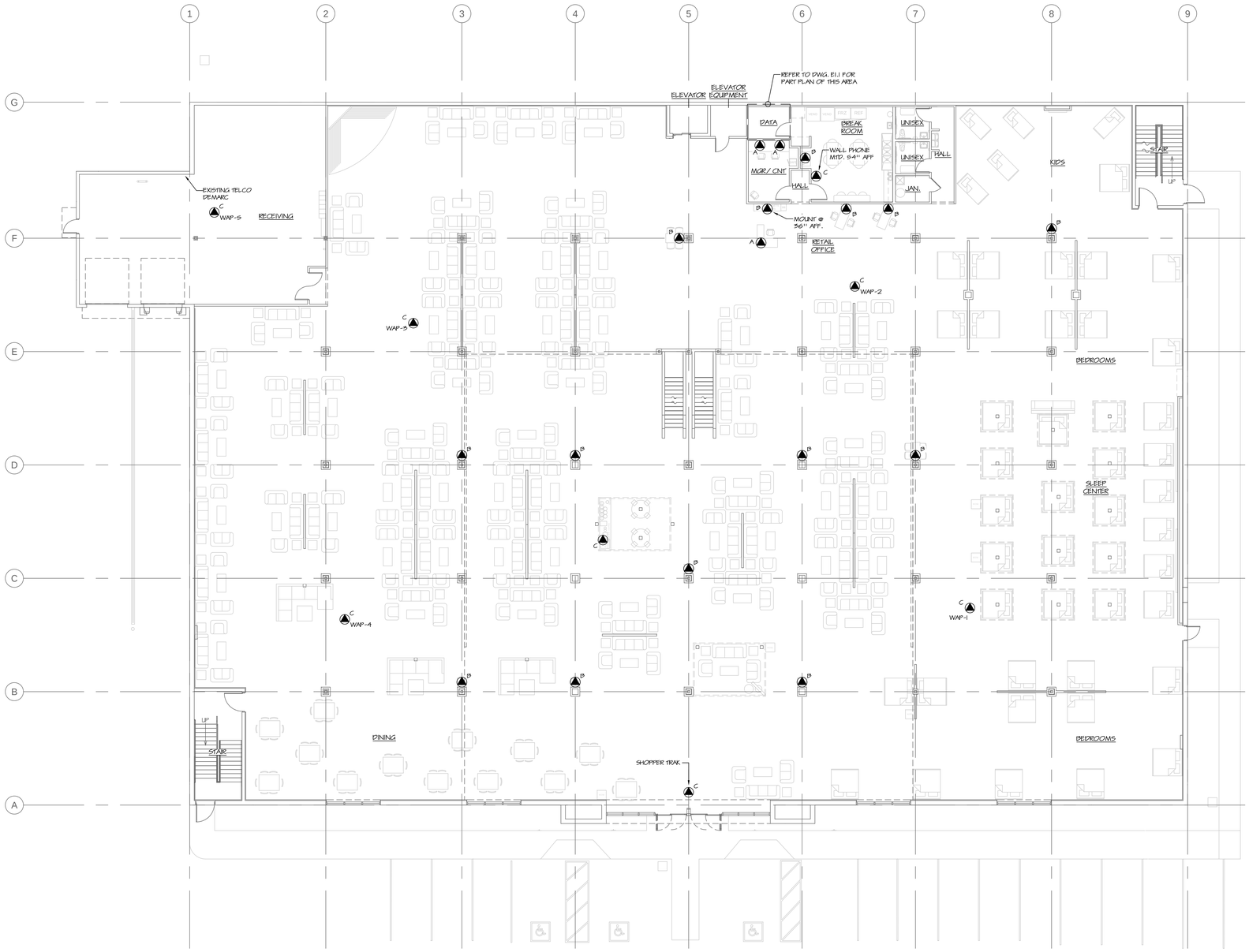
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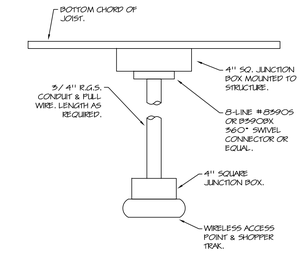
SHEET TITLE
ENERGY MANAGEMENT SYSTEM DETAILS

SHEET NUMBER
EM1.4



FIRST FLOOR VOICE & DATA PLAN

SCALE 3/32" = 1'-0"



1. FOR MIDDLE OPEN AREA MOUNT @ 14'-0" AFF TO BOTTOM OF WIRELESS ACCESS POINT AND SHOPPER TRAK UNLESS OTHERWISE INDICATED. WIRELESS ACCESS POINTS UNDER & ON SECOND FLOOR, MOUNT AT 10'-0" AFF.
2. FURNISH & INSTALL ADDITIONAL SEISMIC BRACING AS REQUIRED.
3. EC SHALL FURNISH & INSTALL ALL BOXES, CONDUITS, ETC. AS REQUIRED FOR BDF VENDOR USE.
4. ALL CONDUIT & BOXES SHALL BE PAINTED TO MATCH STRUCTURE ABOVE.
5. ALL DEVICES SHALL BE PENDENT MOUNTED IN AREAS WITH NO CEILING UNLESS OTHERWISE NOTED. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT STORE LAYOUT.
6. EC SHALL FURNISH AND INSTALL A BLANK COVER PLATE WITH 1/ 2" CENTERED TO ON 4" SQUARE JUNCTION BOX FOR USE BY SHOPPER TRAK INSTALLER.

PENDENT MOUNTING DETAIL
NO SCALE

VOICE / DATA LEGEND:

A	QUAD DATA JACK (4 CAT6)
B	DUAL DATA JACK (2 CAT6)
C	SINGLE DATA JACK (1 CAT6)
WAP	WIRELESS ACCESS POINT

VOICE / DATA NOTES:

1. BDF VENDOR SHALL FURNISH AND INSTALL FOUR (4) CAT6 CABLES FROM EACH TYPE 'A' DEVICE TO DATA RACK IN DATA ROOM.
2. BDF VENDOR SHALL FURNISH AND INSTALL TWO (2) CAT6 CABLES FROM EACH TYPE 'B' DEVICE TO DATA RACK IN DATA ROOM.
3. BDF VENDOR SHALL FURNISH AND INSTALL ONE (1) CAT6 CABLE FROM EACH TYPE 'C' DEVICE TO DATA RACK IN DATA ROOM.
4. BDF VENDOR SHALL FURNISH AND INSTALL ALL DEVICES AS REQUIRED AND LEAVE A 15' SERVICE LOOP ON CAT6 CABLE AT DATA RACK IN DATA ROOM. FINAL CONNECTIONS IN DATA ROOM SHALL BE BY BDF VENDOR.
5. BDF VENDOR SHALL TEST ALL CABLES ACCORDINGLY. SUBMIT TEST RESULTS TO OWNERS REPRESENTATIVE.
6. FINAL LOCATIONS AND MOUNTING HEIGHTS SHALL BE COORDINATED WITH OWNERS REPRESENTATIVE PRIOR TO COMMENCING ROUGH-IN.
7. ALL WIRING SHALL BE RUN NEATLY AND ON 90 DEGREE ANGLES (NO DIAGONAL RUNS) AND SHALL BE SUPPORTED TO BUILDING STRUCTURE USING J HANGERS.
8. BDF VENDOR SHALL FURNISH AND INSTALL FOUR (4) CAT6 CABLES FROM THE BUILDINGS TELCO DEMARC TO THE DATA ROOM WITH 20' SERVICE LOOPS AT BOTH ENDS. INSTALL IN 2" CONDUIT (WITHOUT INNERDUCT) .
9. ALL CABLE TO BE PLENUM RATED.
10. ALL DEVICES SHALL BE MOUNTED @ 18" AFF UNLESS INDICATED OTHERWISE.
11. BDF VENDOR AND EC SHALL CONFIRM EXACT LOCATION OF BUILDINGS DEMARC PANEL PRIOR TO SUBMITTING BID.
12. WAP'S SHALL BE MOUNTED TO CEILING IN AREAS WITH DROP CEILINGS. WAP'S SHALL BE PENDENT MOUNTED IN AREAS WHERE THERE IS NO CEILING.
13. EC SHALL FURNISH & INSTALL ALL BACK BOXES, CONDUIT STUB-UPS & PULL WIRES FOR ALL WALL MOUNTED DEVICES AS REQUIRED.
14. ALL CONDUIT AND BACKBOXES MOUNTED ON NON-CONCEALED , OPEN COLUMNS AND WALLS WITH SURFACE MOUNTED DEVICES SHALL BE EMT. CONDUIT SHALL EXTEND UP TO ROOF STRUCTURE ABOVE. CONDUIT, BOXES AND FACE PLATES SHALL BE PAINTED THE SAME COLOR OF THE RESPECTIVE COLUMN OR WALL FINISH. CONDUITS SHALL BE PAINTED UP TO THE HEIGHT OF UNDERSIDE OF TYPE B LIGHT FIXTURES.
15. EC SHALL FURNISH & INSTALL ALL PENDENT MOUNTED SET-UPS PER DETAIL WHERE INDICATED.
16. EC SHALL COORDINATE WITH BDF VENDOR TO DETERMINE EXACT DEVICE / EQUIPMENT LOCATIONS PRIOR TO COMMENCING ROUGH-IN.
17. EC SHALL FURNISH AND INSTALL A 2" CONDUIT FROM BUILDING TELCO DEMARC MPOE TO THE BDF DATA ROOM. REFER TO DRAWING E1.1 FOR TERMINATION POINT IN DATA ROOM.
18. EC SHALL FURNISH AND INSTALL A 1" INNERDUCT, INSIDE A 2" CONDUIT FROM BUILDING TELCO DEMARC MPOE TO THE BDF DATA ROOM FOR FIBER RUN. INNERDUCT SHALL BE PLENUM RATED AND CORRUGATED WITH 2,000 LB MULE METER TAPE.
19. EC SHALL CONFIRM EXACT LOCATION OF BUILDING TELCO DEMARC MPOE PRIOR TO SUBMITTING BID.
20. EC SHALL FURNISH AND INSTALL CONDUIT STUB-UPS IN DATA ROOM PER DETAIL 5 SHOWN ON DRAWING E1.0.1.
21. ALL DATA JACKS AND COVER PLATES SHALL BE WHITE IN COLOR.
22. EC SHALL FURNISH AND INSTALL A 2" CONDUIT PENETRATION THROUGH ROOF, WITH WEATHER HEAD, OVER DATA ROOM FOR XM SATELLITE RADIO AND EMS CRADLE POINT. EXTEND CONDUIT UP 3' ABOVE ROOF LINE. FIELD VERIFY EXACT LOCATION.
23. BDF LOW VOLTAGE VENDOR SHALL INSTALL A FIRE ALARM SHUNT MODULE FOR SOUND SYSTEM SHUT DOWN UPON ACTIVATION OF FIRE ALARM SYSTEM. LOCATE BEHIND DATA RACK IN DATA ROOM. FURNISH AND INSTALL LOAD SIDE WIRING TO SOUND SYSTEM AS REQUIRED. FIRE ALARM CONTRACTOR SHALL FURNISH AND INSTALL WIRING FROM THE FIRE ALARM CONTROL PANEL VIA A NORMALLY CLOSED CONTACTOR. SHUNT MODULE SHALL BE FURNISH BY BDF.
24. EC SHALL FURNISH AND INSTALL PULL STRINGS IN ALL EMPTY CONDUITS.
25. FINAL LOCATION OF ALL CONDUIT DROPS SHALL BE COORDINATED WITH EC AND BDF VENDOR IN FIELD PRIOR TO COMMENCING ROUGH-IN.

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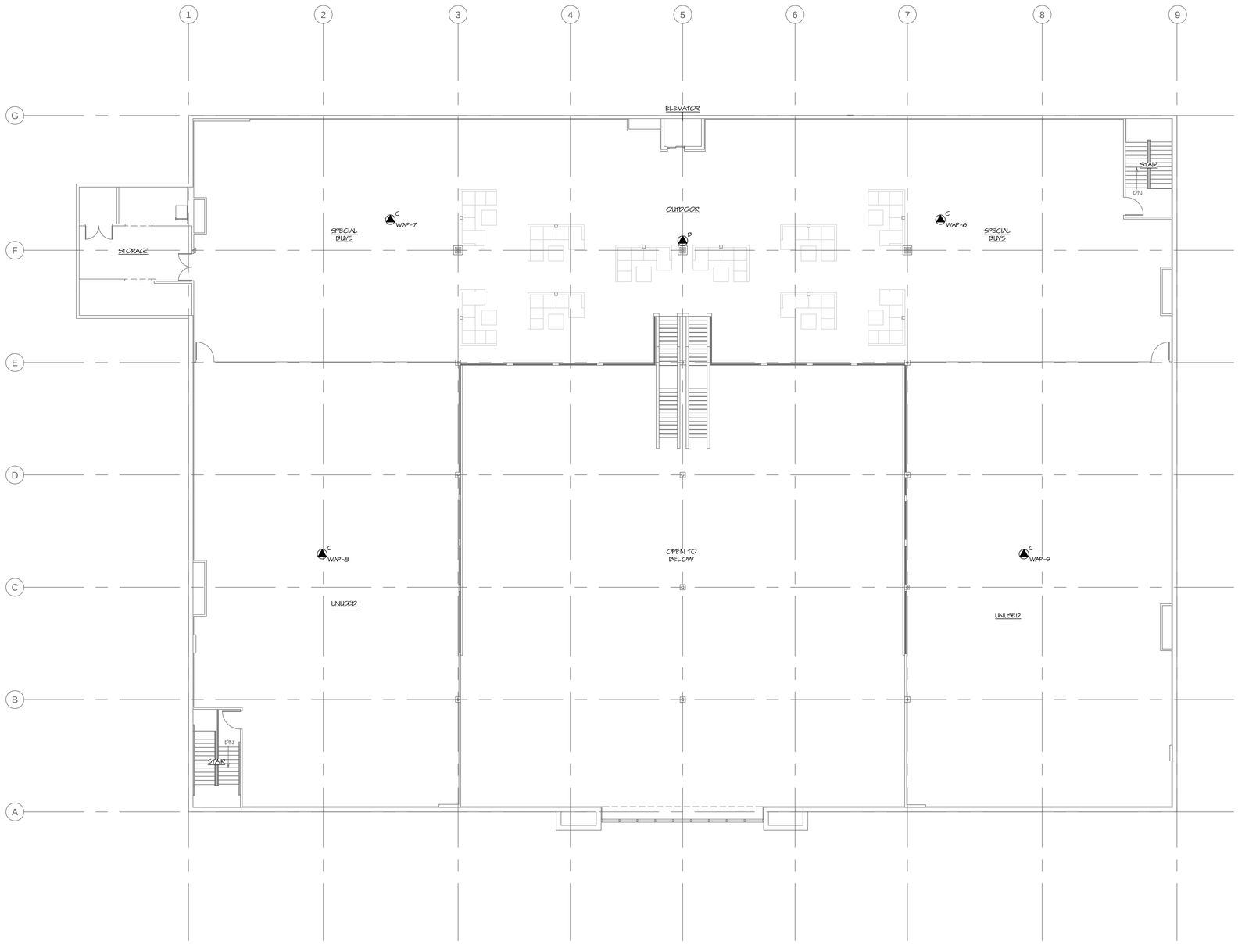
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SHEET TITLE
FIRST FLOOR VOICE & DATA PLAN

SHEET NUMBER
LV1.1



SECOND FLOOR VOICE & DATA PLAN

SCALE 3/32" = 1'-0"

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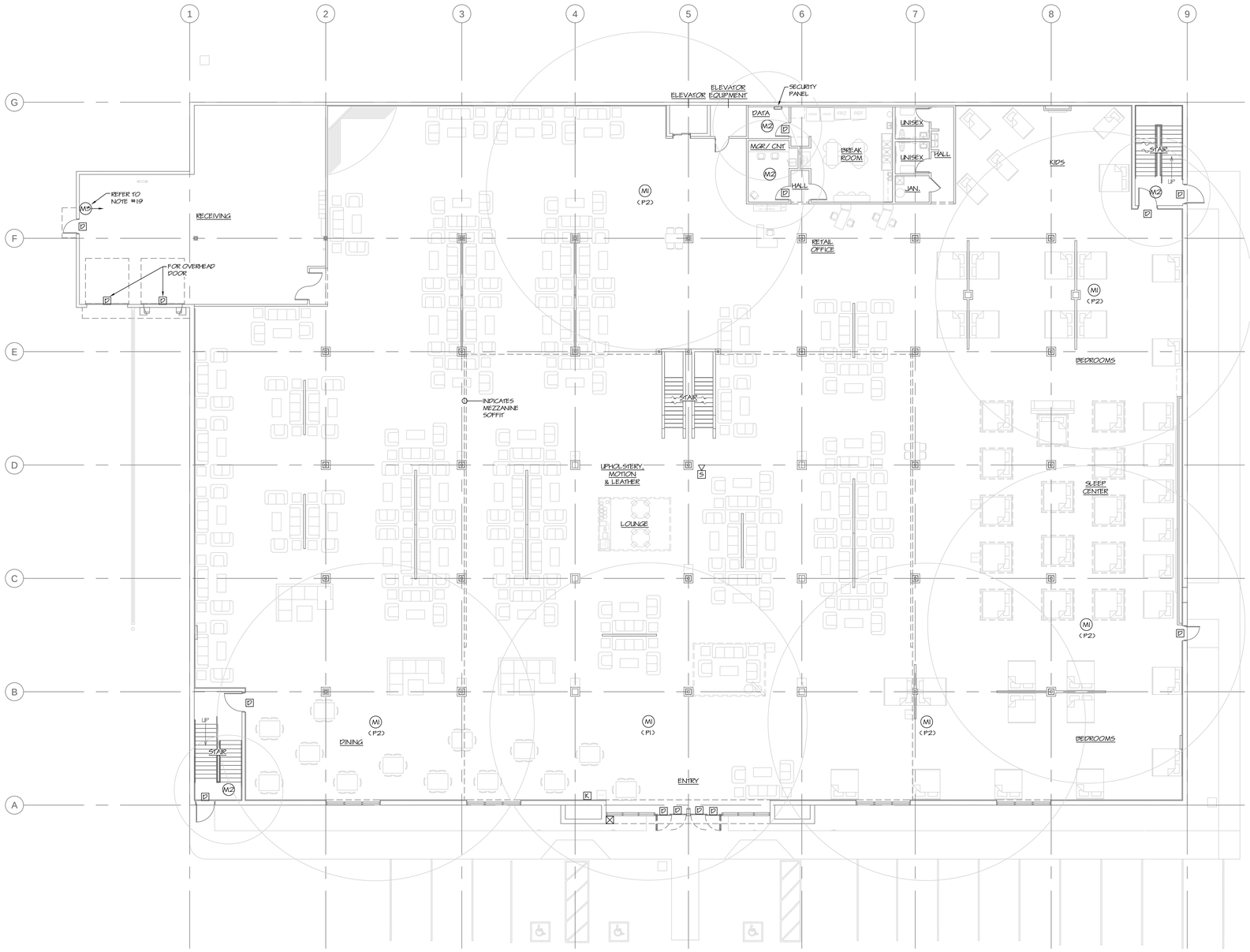
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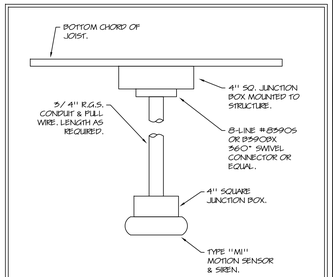
SHEET TITLE
SECOND FLOOR VOICE & DATA PLAN

SHEET NUMBER
LV1.2



FIRST FLOOR BURGLAR PLAN

SCALE 3/32" = 1'-0"



1. MOUNT MOTION SENSOR @ 14'-0" AFF OR 10'-0" AFF TO BOTTOM OF DEVICE UNLESS OTHERWISE INDICATED. MOUNT SIREN @ 15'-0" AFF TO BOTTOM OF DEVICE.
2. FURNISH & INSTALL ADDITIONAL SEISMIC BRACING AS REQUIRED.
3. EC SHALL FURNISH & INSTALL ALL BOXES, CONDUITS, ETC. AS REQUIRED FOR BDF VENDOR USE.
4. ALL CONDUIT & BOXES SHALL BE PAINTED TO MATCH STRUCTURE ABOVE.
5. ALL DEVICES SHALL BE PENDENT MOUNTED IN AREAS WITH NO CEILING. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT STORE LAYOUT.

PENDENT MOUNTING DETAIL

NO SCALE

BURGLAR LEGEND

M1	BOSCH DS9370 / DS9371 MOTION DETECTOR - 70' RADIUS
M2	BOSCH #DS936 MOTION DETECTOR - 24' RADIUS
M3	WALL MOUNTED MOTION DETECTOR
P	DOOR MOUNTED BREAK MAGNET
K	KEY PAD
S	SIREN
	KNOX BOX - EXISTING
(P1)	INDICATES PENDANT MOUNTED DEVICE @ 14'-0" AFF
(P2)	INDICATES PENDANT MOUNTED DEVICE @ 10'-0" AFF

BURGLAR NOTES:

1. BDF VENDOR SHALL FURNISH AND INSTALL ALL WIRING AS REQUIRED.
2. BDF VENDOR SHALL LEAVE A 15' SERVICE LOOP AT BOTH ENDS OF ALL CABLES.
3. UNLESS INDICATED OTHERWISE, ALL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY BDF VENDOR.
4. BDF VENDOR SHALL CONNECT EXISTING KNOX BOX TO THE BURGLAR SYSTEM. INSTALL NEW ALARM BACKPLATE AS REQUIRED.
5. BDF VENDOR SHALL TEST ALL CABLES ACCORDINGLY.
6. FINAL LOCATIONS AND MOUNTING HEIGHTS FOR ALL DEVICES SHALL BE COORDINATED WITH BDF REPRESENTATIVE PRIOR TO COMMENCING ROUGH-IN.
7. ALL WIRING SHALL BE RUN NEATLY AND ON 90 DEGREE ANGLES (NO DIAGONAL RUNS) AND SHALL BE SUPPORTED TO BUILDING STRUCTURE USING J HANGERS.
8. ALL CABLE SHALL BE PLENUM RATED.
9. EC SHALL FURNISH & INSTALL ALL BACK BOXES, CONDUIT STUB-UPS & PULL WIRES FOR ALL WALL MOUNTED DEVICES AS REQUIRED.
10. EC SHALL FURNISH & INSTALL ALL PENDENT MOUNTED DEVICES PER DETAIL WHERE INDICATED.
11. EC SHALL COORDINATE WITH BDF VENDOR TO DETERMINE EXACT DEVICE / EQUIPMENT LOCATIONS PRIOR TO COMMENCING ROUGH-IN.
12. MOUNT DEVICES ON CEILINGS WHERE APPLICABLE. PENDENT MOUNT DEVICES IN AREAS WITH NO CEILINGS.
13. BDF VENDOR SHALL PROVIDE TWO (2) NORMAL OPEN (NO), MAINTAINED DRY TYPE CONTACTORS IN THE SECURITY PANEL FOR LIGHTING CONTROL PANEL INTEGRATION. TERMINATE WIRING ON CONTACTORS AS REQUIRED. REFER TO THE ELECTRICAL DETAIL DRAWING FOR SCHEMATIC.
    - CONTACTOR #1: TURN EMPLOYEE LEVEL LIGHTS ON AND OFF VIA SECURITY SYSTEM KEY PAD.
    - CONTACTOR #2: TURN ON EMPLOYEE LEVEL LIGHTS WHEN SECURITY SYSTEM GOES INTO ALARM.
14. BDF VENDOR SHALL ADJUST BEAM SPREAD AS REQUIRED SO COVERAGE DOES NOT EXTEND THROUGH EXTERIOR GLASS.
15. BDF VENDOR SHALL INSTALL A DOOR CONTACT AT THE ROOF HATCH. FIELD VERIFY EXACT LOCATION.
16. BURGLAR SYSTEM COMMUNICATION SHALL BE MONITORED VIA NETWORK CABLING FOR PRIMARY AND CELLULAR FOR SECONDARY.
17. EC SHALL FURNISH AND INSTALL A 1" RIGID CONDUIT PENETRATION THROUGH ROOF FOR ANTENNA, EXTEND UP 5" ABOVE ROOF LINE WITH WEATHER HEAD.
18. RECEIVING AREA WALL MOUNTED MOTION SENSOR SHALL BE MOUNTED AT 9'-0" AFF.
19. REFER TO DRAWING E10.1 FOR DEVICE DETAILS.

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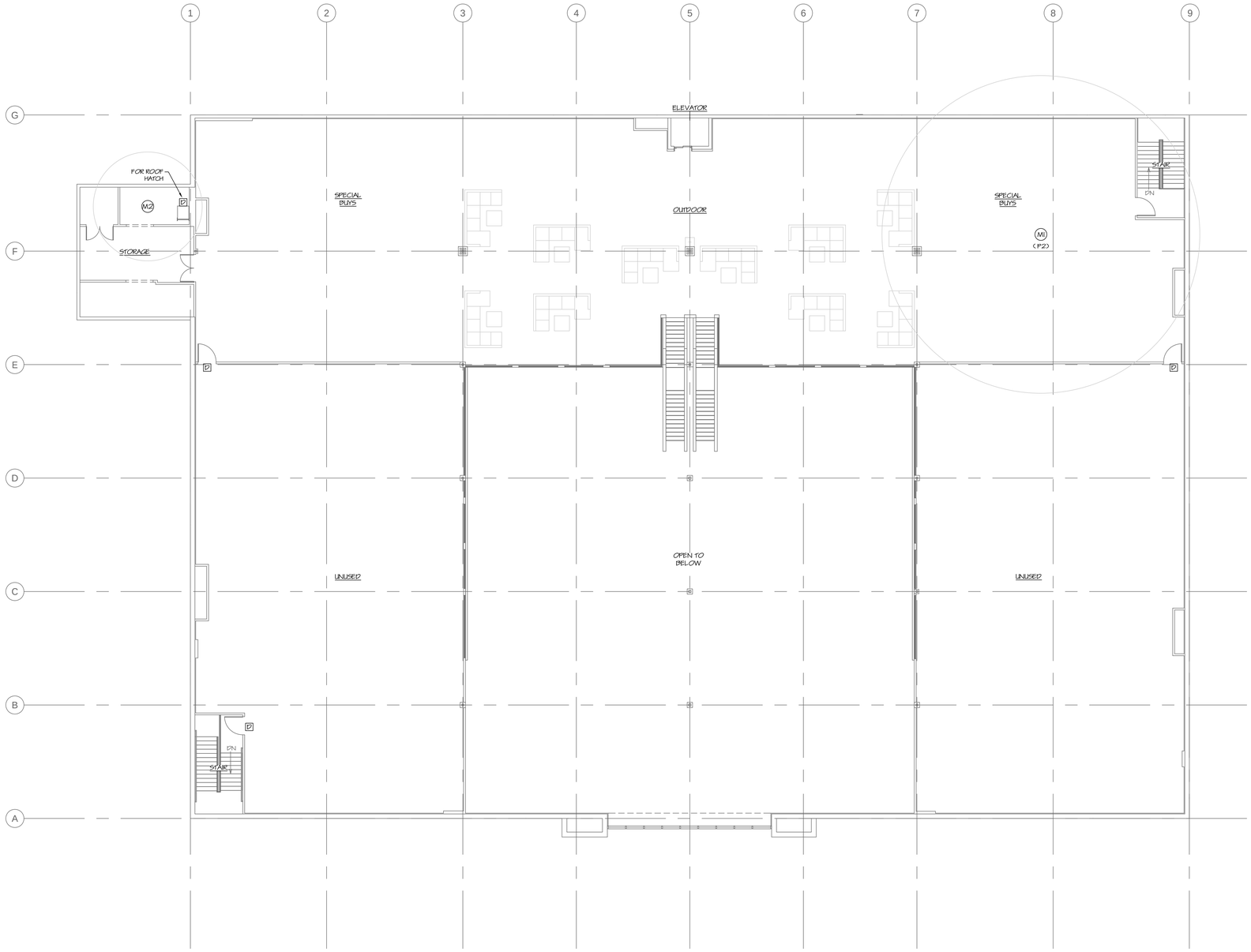
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SHEET TITLE
FIRST FLOOR BURGLAR PLAN

SHEET NUMBER
B1.1



SECOND FLOOR BURGLAR PLAN

SCALE 3/32" = 1'-0"

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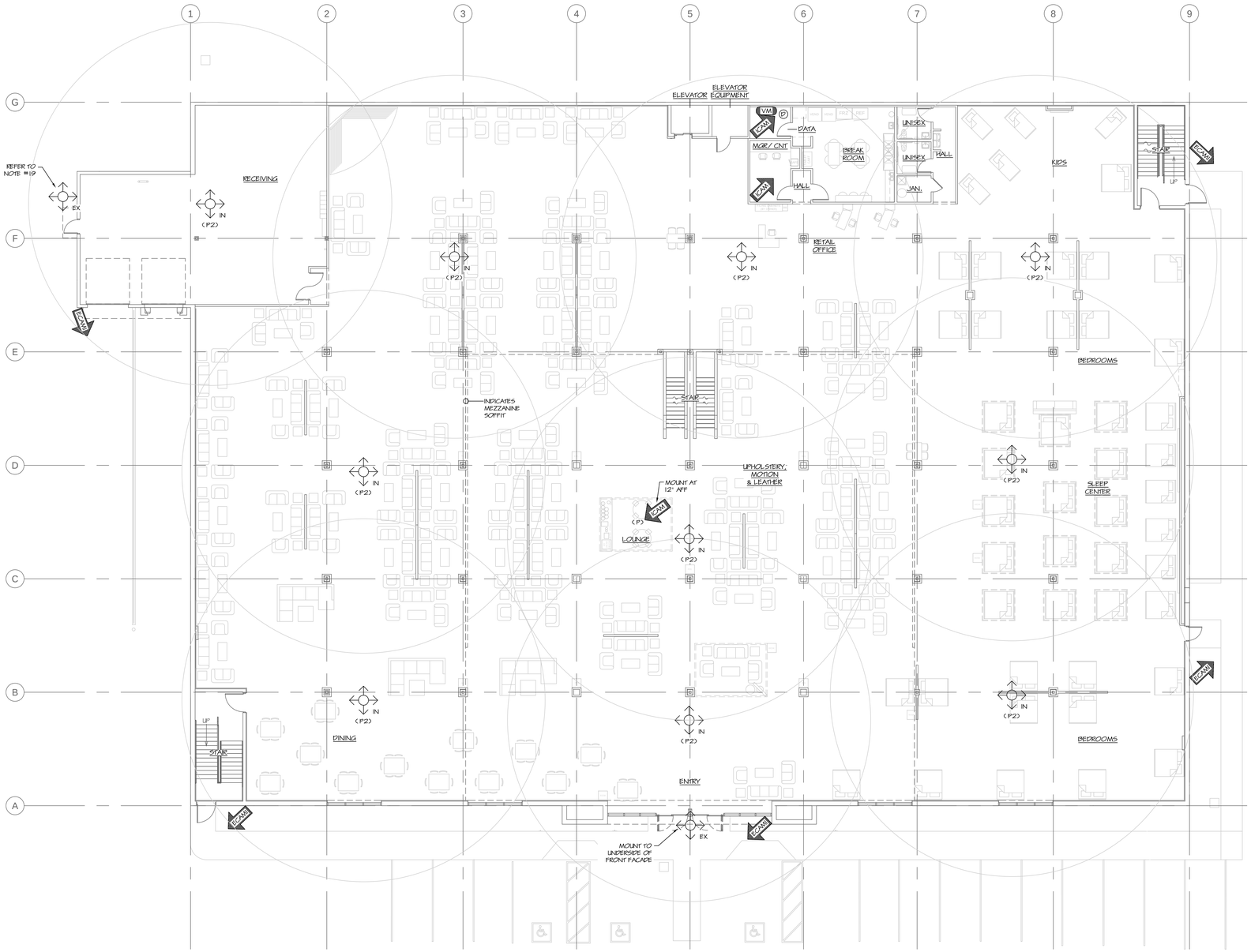
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SHEET TITLE
SECOND FLOOR BURGLAR PLAN

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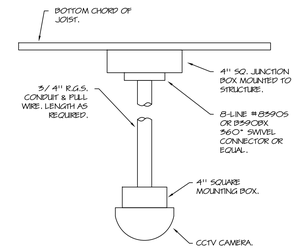


FIRST FLOOR CCTV PLAN

SCALE 3/32" = 1'-0"

CAMERA MOUNTING HEIGHT SPECIFICATIONS:

- AREAS WITH DROP CEILING; CEILING MOUNTED
- WALL MOUNTED INTERIOR CAMERAS; 10' AFF
- PENDENT MOUNTED INTERIOR CAMERAS; 14' AFF OR 10' AFF (UNLESS INDICATED OTHERWISE)
- WALL MOUNTED EXTERIOR CAMERAS; 15' AFG (UNLESS INDICATED OTHERWISE)



1. MOUNT @ 14'-0" AFF OR 10'-0" AFF TO BOTTOM OF CAMERA UNLESS OTHERWISE INDICATED.
2. FURNISH & INSTALL ADDITIONAL SEISMIC BRACING AS REQUIRED.
3. EC SHALL FURNISH & INSTALL ALL BOXES, CONDUITS, ETC. AS REQUIRED FOR BDF VENDOR USE.
4. ALL CONDUIT & BOXES SHALL BE PAINTED TO MATCH STRUCTURE ABOVE.
5. ALL DEVICES SHALL BE PENDENT MOUNTED IN AREAS WITH NO CEILING UNLESS OTHERWISE NOTED. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT STORE CEILING LAYOUT.

PENDENT MOUNTING DETAIL
NO SCALE

CCTV LEGEND:

SCAN	INTERIOR CAMERA
SCAN	EXTERIOR CAMERA
SCAN	EXTERIOR FIXED MULTI-LENS CAMERA
IN	INTERIOR FISHEYE CAMERA
EX	EXTERIOR FISHEYE CAMERA
VM	WALL MOUNTED VIDEO MONITOR
(P)	RACK MOUNTED NVR RECORDER
(P)	INDICATES PENDENT MOUNTED CAMERA
(P1)	INDICATES PENDENT MOUNTED CAMERA @ 14'-0" AFF
(P2)	INDICATES PENDENT MOUNTED CAMERA @ 10'-0" AFF

CCTV NOTES:

1. BDF VENDOR SHALL BE RESPONSIBLE TO FURNISH & INSTALL A COMPLETE CCTV SYSTEM, INCLUDING BUT BY NO MEANS LIMITED TO INTERIOR CAMERAS, EXTERIOR CAMERAS AND ALL HEAD END EQUIPMENT (WALL MOUNTED RACK, VIDEO MONITORS (TYP. FOR 2 - 1 @ EQUIPMENT RACK & 1 @ SALES OFFICE WHERE SHOWN), NVR RECORDER, UPS (BACK-UP, ETC.). IN CONJUNCTION WITH THIS DRAWING, BDF REPRESENTATIVE SHALL ISSUE A CCTV STANDARD SPECIFICATION AND VISUAL INSTALL DIAGRAM NOTING LIST OF APPROVED EQUIPMENT AND INSTALLATION EXPECTATIONS FOR THIS PROJECT.
2. BDF VENDOR SHALL FURNISH AND INSTALL ONE (1) CAT5E CABLE FROM EACH CAMERA TO THE NVR DATA RACK IN THE DATA ROOM.
3. BDF VENDOR SHALL FURNISH AND INSTALL ONE (1) CAT5E CABLE FROM EACH MONITOR TO NVR DATA RACK.
4. BDF VENDOR SHALL LEAVE A 15' SERVICE LOOP AT CAMERA END OF ALL CABLES FOR FIELD ADJUSTMENTS.
5. BDF VENDOR SHALL TEST ALL CABLES AND CERTIFY ACCORDINGLY. SUBMIT TEST RESULTS TO BDF REPRESENTATIVE FOR THEIR RECORDS.
6. FINAL LOCATIONS AND MOUNTING HEIGHTS SHALL BE COORDINATED WITH BDF REPRESENTATIVE PRIOR TO COMMENCING ROUGH-IN.
7. ALL WIRING SHALL BE RUN NEATLY AND ON 90 DEGREE ANGLES (NO DIAGONAL RUNS) AND SHALL BE SUPPORTED TO BUILDING STRUCTURE USING J HANGERS.
8. BDF VENDOR SHALL MAKE ALL TERMINATIONS ON BOTH ENDS.
9. ALL CABLE SHALL BE PLENUM RATED.
10. EC SHALL FURNISH & INSTALL ALL BACK BOXES AND CONDUIT STUB-UPS FOR ALL WALL MOUNTED CAMERAS.
11. EC SHALL FURNISH & INSTALL PENDENT MOUNT INFRASTRUCTURE, PER DETAIL, WHERE INDICATED.
12. CAMERAS SHOWN IN AREAS WITH NO CEILING SHALL BE WALL MOUNTED UNLESS INDICATED OTHERWISE.
13. EC SHALL COORDINATE WITH BDF VENDOR TO DETERMINE EXACT DEVICE LOCATIONS PRIOR TO COMMENCING ROUGH-IN.
14. INTERIOR CAMERAS SHALL BE CEILING MOUNTED WHERE A DROP CEILING EXISTS.
15. SALES OFFICE VIDEO MONITOR SHALL BE MOUNTED AT 80" AFF & 18" FROM EDGE OF SHEETROCK OPENING TO CENTER OF MONITOR.
16. CASH ROOM CAMERA SHALL BE LOCATED SO IT IS FACING THE FLOOR MOUNTED SAFE FROM DIAGONAL ROOM LOCATION. FIELD VERIFY EXACT LOCATION.
17. EC SHALL FURNISH & INSTALL A 3/4" LIQUIDTIGHT CONDUIT W/ PULL-STRING FROM INSIDE STORE TO EXTERIOR FACADE CAMERA. FIELD VERIFY EXACT LOCATION WITH BDF REPRESENTATIVE PRIOR TO COMMENCING ROUGH-IN.
18. BDF VENDOR SHALL FURNISH AND INSTALL A NITEK # EE522B POE EXTENDER AS REQUIRED FOR CAT5E CABLES EXCEEDING 320' IN TOTAL LENGTH, INCLUDING SERVICE LOOP AND PATCH CORD.
19. MOUNT CAMERA AT SAME HEIGHT AS BOTTOM OF CANOPY. IF CANOPY IS HIGHER THAN 10' AFG, MOUNT CAMERA AT 10'AFG.
20. REFER TO DRAWING E10.1 FOR DEVICE DETAILS.
21. MOUNT CAMERA ON A CORNER MOUNT SET-UP FOR SIGHT COVERAGE OF BOTH SIDES.

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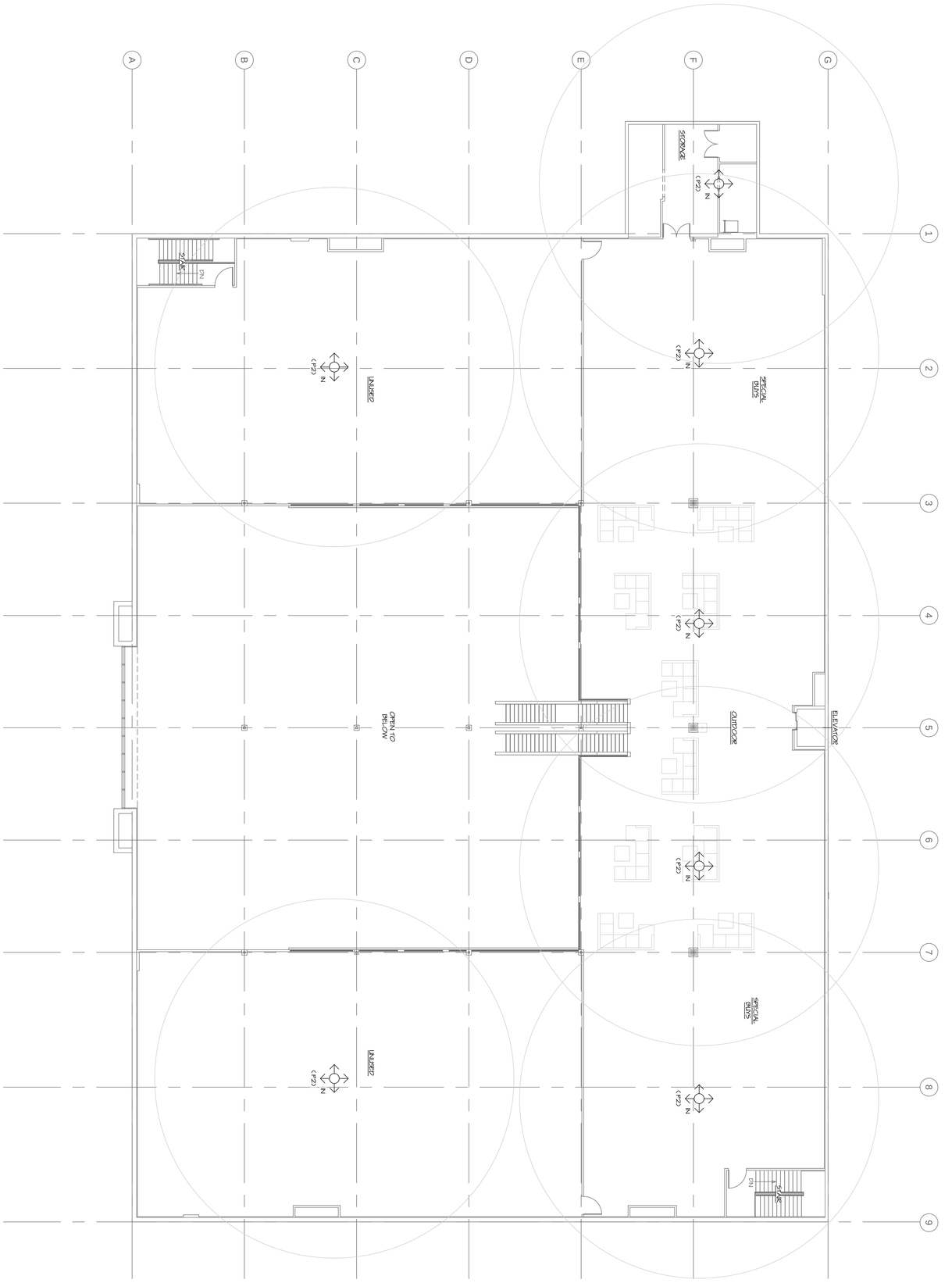
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SHEET TITLE
FIRST FLOOR CCTV PLAN

SHEET NUMBER
CCTV1.1



SECOND FLOOR CCTV PLAN

SCALE 3/32" = 1'-0"

ISSUE DATES	NO.	DATE	TYPE	REVISION DATES
TYPE / DATE				
PERMIT/CONSTRUCTION SET 08/14/26				

DRAWN BY

CHECKED BY

PROJECT NUMBER
5522012

DATE
08/14/2026

SHEET TITLE
SECOND FLOOR CCTV PLAN

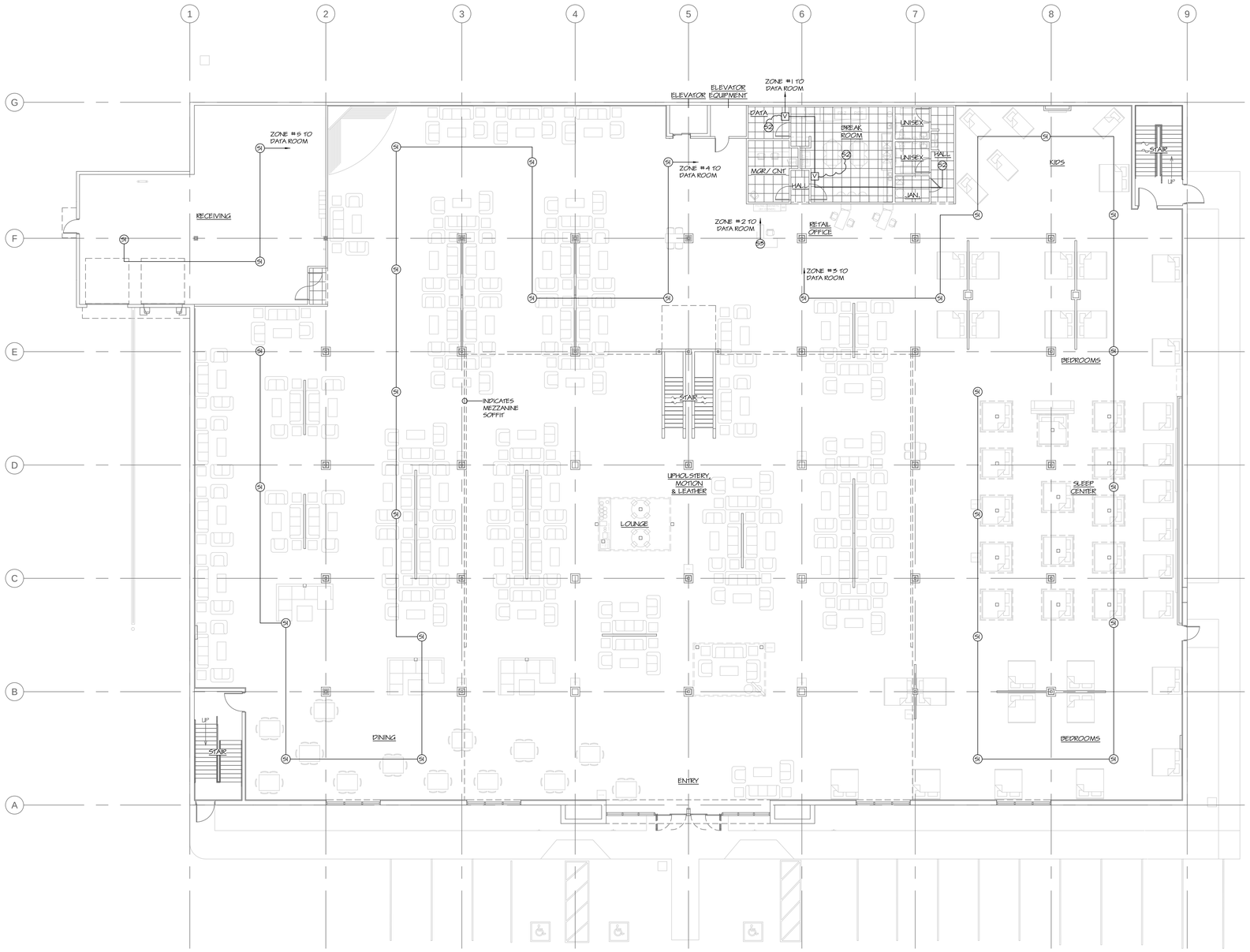
SHEET NUMBER
CCTV1.2

BOB'S Discount Furniture.
3401 W NEW HAVEN AVE.
MELBOURNE, FL 32904

H2DC PLLC
Professional Electrical Engineering

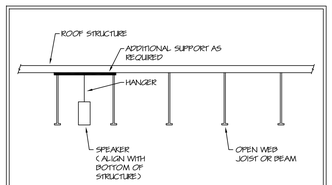
HURRICANE HILL DEVELOPMENT
COMPANY PLLC
1042 HURRICANE HILL ROAD
MASON, NH 03048-1726
PHONE: 508-735-5471
WEB: WWW.H2DC.COM

CERTIFICATION:



FIRST FLOOR SOUND SYSTEM PLAN

SCALE 3/32" = 1'-0"



NOTES:

1. SUPPORT SPEAKER FROM TOP OF OPEN WEB JOISTS OR BEAMS, NOT ROOF DECK.
2. PROVIDE ADDITIONAL SEISMIC SUPPORT AS REQUIRED.

TYPE "S1 & S3" SPEAKER MOUNTING DETAIL

NO SCALE

SOUND SYSTEM LEGEND:

- (S1) GP-C56-HK DOME SPEAKER (MUSIC)
- (S2) QCS CEILING SPEAKER (MUSIC)
- (S3) GP-C56-HK DOME SPEAKER (PAGING)
- [V] VOLUME CONTROL

SOUND SYSTEM NOTES:

1. BDP VENDOR SHALL FURNISH AND INSTALL ALL WIRING AS SHOWN. CABLE SHALL BE #18 AWG/ 2 CONDUCTOR WITH STP, SHIELDED WITH GROUND. INCREASE WIRE GAUGE AS REQUIRED FOR LONGER RUNS.
2. BDP VENDOR SHALL LEAVE A 15' SERVICE LOOP AT BOTH ENDS OF ALL CABLES.
3. ALL SPEAKERS, CONTROLS AND HEAD END EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY BDP VENDOR.
4. BDP VENDOR SHALL TEST ALL CABLES ACCORDINGLY.
5. FINAL LOCATIONS AND MOUNTING HEIGHTS SHALL BE COORDINATED WITH OWNERS REPRESENTATIVE PRIOR TO COMMENCING ROUGH-IN.
6. ALL WIRING SHALL BE RUN NEATLY AND ON 90 DEGREE ANGLES (NO DIAGONAL RUNS) AND SHALL BE SUPPORTED TO BUILDING STRUCTURE USING J HANGERS.
7. BDP VENDOR SHALL HANG TYPE S1 AND S3 SPEAKERS FROM ROOF STRUCTURE & EXTEND DOWN SO BOTTOM OF SPEAKER ALIGNS WITH BOTTOM CHORD OF OPEN WEB JOIST. S2 SPEAKERS SHALL BE MOUNTED ON RESPECTIVE CEILING AND SUPPORTED TO BUILDING STRUCTURE AS REQUIRED.
8. ALL CABLE SHALL BE PLENUM RATED.
9. TYPE S3 SPEAKER ABOVE RETAIL OFFICE SHALL BE PROGRAMMED FOR PAGING ONLY.
10. EC SHALL FURNISH AND INSTALL ALL BACK BOXES, CONDUIT STUB-UPS & PULL WIRES FOR ALL VOLUME CONTROLS.
11. EC SHALL COORDINATE WITH BDP VENDOR TO DETERMINE EXACT DEVICE/ EQUIPMENT LOCATIONS PRIOR TO COMMENCING ROUGH-IN.

CERTIFICATION:

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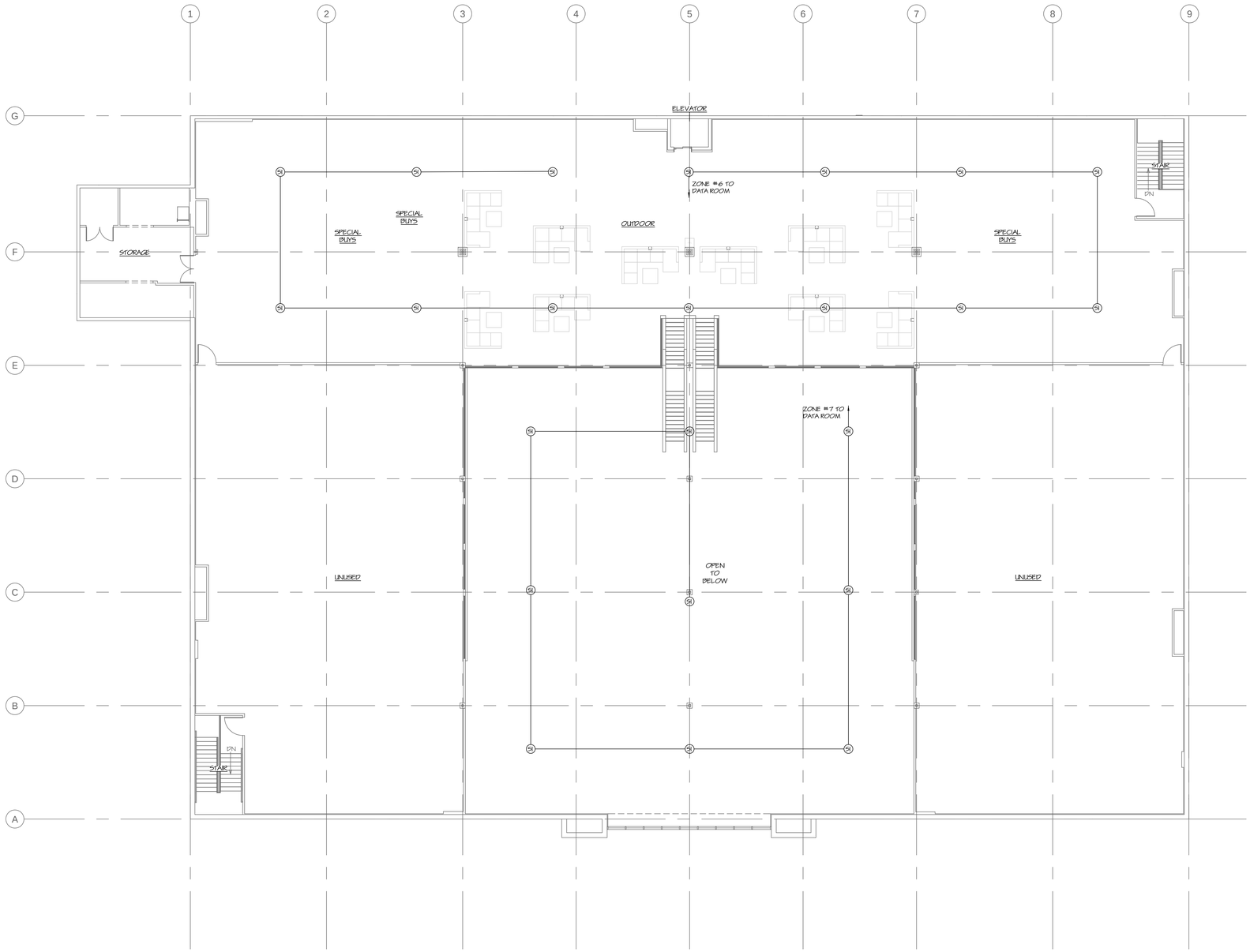
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DATE
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SHEET TITLE
FIRST FLOOR SOUND SYSTEM PLAN

SHEET NUMBER
SD1.1



SECOND FLOOR SOUND SYSTEM PLAN

SCALE 3/32" = 1'-0"

CERTIFICATION:

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SHEET TITLE
SECOND FLOOR SOUND SYSTEM PLAN

SHEET NUMBER
SD1.2