INTERIOR RENOVATIONS

RAYMOUR & FLANIGAN FURNITURE I MATTRESSES
1459 Niagara Falls Blvd
Amherst, NY 14228

SITE LOCATION MAP



PROJECT TEAM

OWNER

RAYMOUR & FLANIGAN, INC.
7248 MORGAN ROAD
LIVERPOOL, NY 13090
315.453.2574 (phone)
CONTACT: JIM COREY

ARCHITECT

AEON ARCHITECTURE
33 W. RIDLEY AVENUE
RIDLEY PARK, PA 19078
484.243.0249 (phone)
CONTACT: STEVE TOMASSETTI, AIA, BCO
EMAIL: steve@aeonarchitecture.com

MEP ENGINEER

FXB ENGINEERING
5 CHRISTY DRIVE
CHADDS FORD, PA 19317
(610) 558-3464 (phone)
CONTACT: CHRISTIAN KREMER
EMAL: christiankremer@fxbinc.com

GENERAL NOTES

1.) EXISTING CONDITION(S) VERIFICATION:
IT IS INCUMBENT UPON THE G.C. AND ALL OF HIS/HER SUBCONTRACTORS TO VISUALLY SURVEY AND MEASURE THE SITE TO VERIFY THAT THE SPACE AS DESIGNED CAN BE ACCOMMODATED. PRIOR TO ANY CONSTRUCTION THE G.C. SHALL CHALK LINE THE ENTIRE PREMISES, REVIEW ALL EXISTING CONDITIONS, INCLUDING BUILDING SYSTEMS AND STRUCTURES SCHEDULED TO REMAIN OR LANDLORD SYSTEM WHICH PASS THROUGH THE DEMISED PREMISES, FOR NON-INTERFERENCE WITH PROPOSED DESIGN AS INDICATED ON THESE DOCUMENTS. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS SHALL BE REPORTED TO THE ARCHITECT AND OWNER IMMEDIATELY PRIOR TO PERFORMANCE OF ANY WORK IN QUESTION. FAILURE TO COMPLY SHALL MAKE THE G.C. LIABLE FOR ALL COSTS AND/OR CORRECTIONS TO ACCOMMODATE DESIGNED INDICATED WITHIN THESE DOCUMENTS.

2.) WHEN CONTRACTOR ACCEPTS DELIVERY OF ALL ITEMS NOTED ON PLANS WHETHER IN CONTRACT OR NOT IN CONTRACT, HE SHALL BE RESPONSIBLE FOR LOSS AND/OR DAMAGE TO THESE ITEMS.

3.) THE CONTRACTOR SHALL MAINTAIN, FOR THE ENTIRE DURATION OF THE WORK, ALL EXISTS, EXIST LIGHTING, FIRE PROTECTION DEVICES AND ALARMS IN CONFORMANCE WITH ALL APPLICABLE CODES AND ORDINANCES.

4.) ALL SAW CUTTING AND CORING LOCATIONS SHALL BE APPROVED AND COORDINATED WITH THE OWNER PRIOR TO CUTTING/CORING.

5.) DURING ALL PHASES OF WORK, DO NOT DISTURB THE DELIVERIES AND FUNCTIONS OF TENANTS AND NEIGHBORS.

6.) "TYP." SHOULD MEAN THAT THE CONDITION IS REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT, UNLESS OTHERWISE NOTED, DETAILS ARE USUALLY KEYED AND NOTED "TYP" ONLY ONE WHEN THEY FIRST OCCUR.

7.) "SIM." SHALL MEAN COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLANS AND ELEVATIONS.

8.) THE C.M. SHALL BE RESPONSIBLE FOR COORDINATING THE ENTIRE PROJECT TO CONTRACT COMPLETION DATE INCLUDING THE SCHEDULING AND SUPERVISION OF OWNER AND OWNER'S VENDOR SUPPLIED ITEMS.

9.) THE C.M. SHALL CONFIRM ALL LOCATIONS FOR BLOCKING FOR ALL FIXTURES AND CASEWORK AS REQUIRED BY THE MILLWORK CONTRACTOR.

10.) PROVIDE NON-COMBUSTIBLE BLOCKING AND/OR SUPPORT FRAMING TO ASSURE A COMPLETE INSTALLATION OF FINISHES, TRIM AND MILLWORK AS INDICATED IN THE DOCUMENTS REQUIRED BY THE OWNER, PRODUCT MANUFACTURERS AND AS REQUIRED FOR PROPER INSTALLATION.

PROJECT SUMMARY

THE PURPOSE OF THIS SUBMISSION IS FOR INTERIOR RENOVATIONS TO AN EXISTING 73,000 sf RETAIL SHOWROOM. THERE IS NO CHANGE OF USE OR OWNERSHIP. THE SCOPE INCLUDES ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING DESIGN. DEMOLITION SCOPE INCLUDES THE REMOVAL THE EXISTING SALES OFFICE, THE EXISTING TRAINING ROOM, THE EXISTING CUSTOMER CARE, AND THE EXISTING SHOWROOM CEILING. THE PROPOSED CONSTRUCTION INCLUDES A NEW SALES OFFICE, NEW DISPLAY PARTITIONS, AND NEW FINISHES. THE EXTERIOR WALLS, STOREFRONT, AND THERMAL ENVELOPE OF THE BUILDING SHALL REMAIN. NO CHANGE IN EGRESS CAPACITY, EXISTING EGRESS DOORS TO REMAIN.

SHEET NOTES

REVISION NOTES

REVISIONS THIS SHEET INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

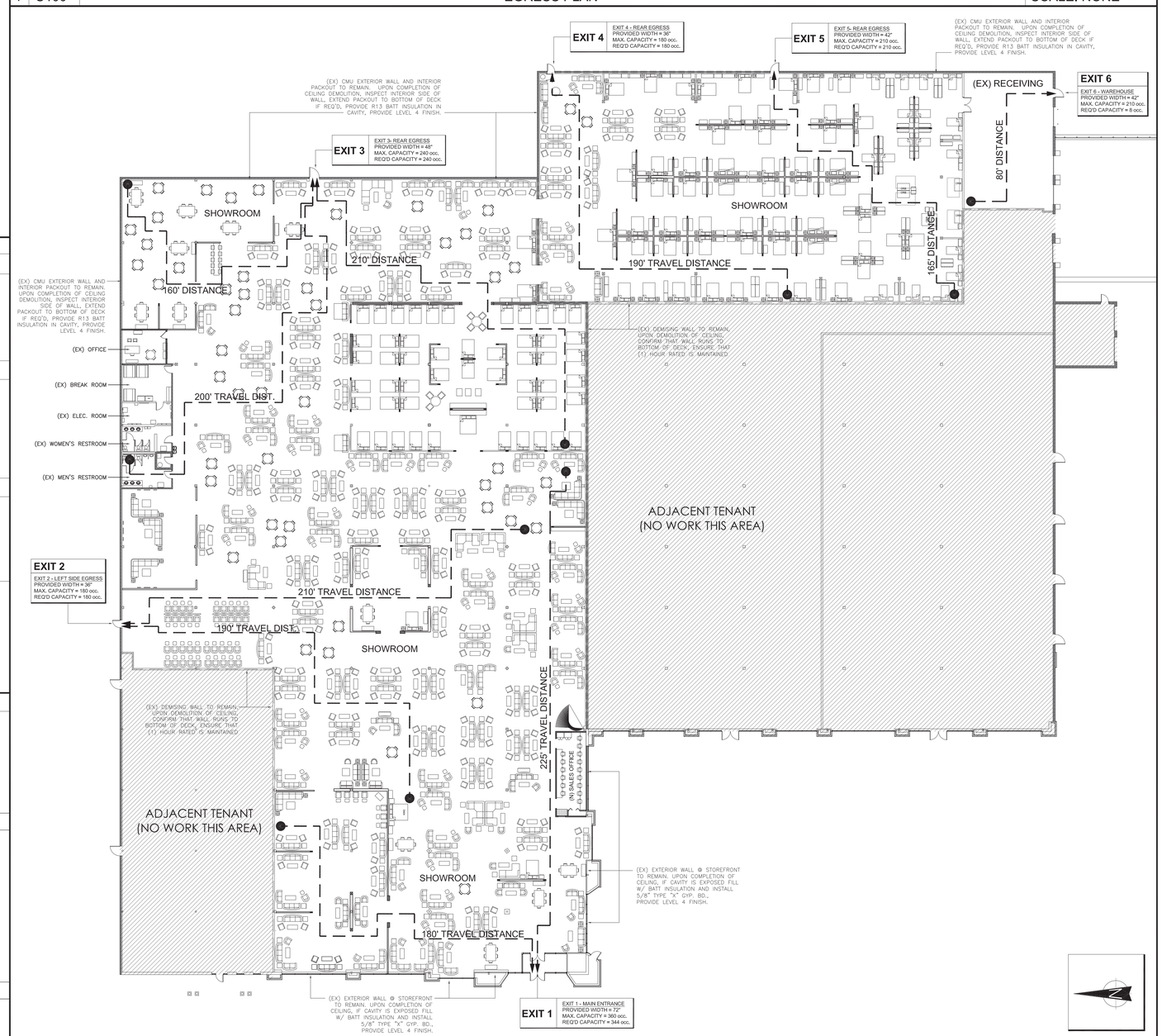
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DRAWING LIST

DRAWING LIST LEGEND
○ DRAWING PREVIOUSLY ISSUED
● DRAWING ISSUED– CURRENT RELEASE

ARCHITECTURAL		DRAWING ISSUE	ISSUED FOR PERMIT 10.09.26							
SHEET	SHEET TITLE		0	1	2	3	4	5	6	7
C100	COVER SHEET		●							
AD100a	DEMOLITION PLAN "A" (SOUTH)		●							
AD100b	DEMOLITION PLAN "B" (NORTH)		●							
A100a	FLOOR PLAN "A" (SOUTH)		●							
A100b	FLOOR PLAN "B" (NORTH)		●							
A300	WALL SECTIONS		●							
A400	ENLARGED PLANS		●							
A500	INTERIOR DETAILS		●							
A600	SCHEDULES & DETAILS		●							
A700	ACCESSIBILITY DETAILS		●							
A800a	REFLECTED CEILING PLAN "A" (SOUTH)		●							
A800b	REFLECTED CEILING PLAN "B" (NORTH)		●							
ELECTRICAL										
E1.0	ELECTRICAL SYMBOLS, NOTES, & ABBREVIATIONS		●							
E1.1	ENERGY CODE COMPLIANCE DOCUMENTATION		●							
ED1.0	ELECTRICAL DEMOLITION– REFLECTED CEILING PLAN		●							
ED1.1	ELECTRICAL DEMOLITION– FLOOR PLAN		●							
E2.0	ELECTRICAL– PARTIAL LIGHTING PLAN A		●							
E2.1	ELECTRICAL– PARTIAL LIGHTING PLAN B		●							
E3.0	ELECTRICAL– PARTIAL POWER PLAN A		●							
E3.1	ELECTRICAL– PARTIAL POWER PLAN B		●							
E4.0	ELECTRICAL– PARTIAL LOW VOLTAGE PLAN A		●							
E4.0	ELECTRICAL– PARTIAL LOW VOLTAGE PLAN B		●							
E5.0	ELECTRICAL ONE LINE DIAGRAM		●							
E6.0	ELECTRICAL SCHEDULES		●							
E7.0	ELECTRICAL DETAILS		●							
E8.0	ELECTRICAL SPECIFICATIONS		●							
MECHANICAL										
M1.0	MECHANICAL SYMBOLS & NOTES		●							
M1.1	MECHANICAL ENERGY COMPLIANCE		●							
M1.2	MECHANICAL ENERGY COMPLIANCE		●							
M2.0	MECHANICAL PLAN		●							
M3.0	MECHANICAL SCHEDULES & SPECIFICATIONS		●							

1 C100 — EGRESS PLAN — SCALE: NONE



CODE COMPLIANCE

PROJECT TYPE	RENOVATION TO EXISTING SHOWROOM (LEVEL 3 ALTERATIONS IEBC)
BUILDING CODES	2025 BUILDING CODE OF NEW YORK STATE (2025 BCNYS)
	2025 EXISTING BUILDING CODE OF NEW YORK STATE (2025 EBCNYS)
	2025 FIRE CODE OF NEW YORK STATE (2025 FCNY)
	2025 MECHANICAL CODE OF NEW YORK STATE (2025 MCNYS)
	2025 PLUMBING CODE OF NEW YORK STATE (2025 PCNYS)
	2025 FUEL GAS CODE OF NEW YORK STATE (2025 FGCNYS)
	2023 NFPA 70 (National Electrical Code)
	2025 ENERGY CONSERVATION CODE OF NEW YORK STATE (2025 ECCNYS)

CHAPTER 3- USE GROUP

OCCUPANCY CLASSIFICATION	TYPE	AREA
	SHOWROOM	68,930 sf
	OFFICE	710 sf
	RECEIVING	2,160 sf
	NON-SIMULTANEOUS USE	1,422 sf
	TOTAL	73,222 sf

CHAPTER 5- HEIGHT & AREA

BUILDING HEIGHT (504.3, 504.4):	4 STORY ALLOWABLE, 1 STORY EXISTING TO REMAIN
	75' ALLOWABLE HEIGHT, EXISTING TO REMAIN NO CHANGE
BUILDING AREA (506.2, 507.4)	EXISTING TO REMAIN, NO CHANGE
OCCUPANCY SEPARATION (Table 508.4)	(1) HOUR, EXISTING DEMISING WALLS TO REMAIN

CHAPTER 6- CONSTRUCTION REQUIREMENTS

CONSTRUCTION REQUIREMENTS	STRUCTURE OR ELEMENT	HOURLY RATING
FIRE RESISTIVE RATING	STRUCTURAL FRAME	0 HR
(TABLE 601)	INT + EXT LOAD BEARING WALLS	0 HR
	INT & EXT NON-LOAD BEARING WALLS	0 HR
	FLOOR CONSTRUCTION	0 HR
	ROOF CONSTRUCTION	0 HR
	EXIT CORRIDORS	0 HR (PER 1023.3)
	SMOKE BARRIERS	1 HR (PER 709.3)

CONSTRUCTION TYPE (602)	II-B NONCOMBUSTIBLE, NFPA 13 SPRINKLER SYSTEM THROUGHOUT, REFERENCE CHAPTER 9

CHAPTER 9- FIRE & SMOKE PROTECTION

NFPA 13 FOR ALL FIRE ALARM & FIRE PROTECTION SYSTEM
G.C. TO PROVIDE THREE TIERS OF DOCUMENT SUBMITTALS PER 780 CMR SECT. 901.2.1

CHAPTER 8- INTERIOR FINISHES

(803.11, 804.4)	
VERTICAL EXITS AND EXIT PASSAGEWAYS	TYPE B
CORRIDORS	TYPE C
ROOMS AND ENCLOSED SPACES	TYPE C
FLOOR FINISHES	CLASS II + PILL TEST

CHAPTER 9- FIRE PROTECTION

FIRE SPRINKLER SYSTEM (903)	YES PER NFPA 13
FIRE EXTINGUISHERS (906)	YES, PER SECTION 906
FIRE ALARM SYSTEM (907.2.2)	YES, PER SECTION 907

CHAPTER 10- OCCUPANCY LOAD

USE (1004.5)	AREA	LOAD FACTOR	OCCUPANT LOAD
SHOWROOM	68,930 sf	60 GSF/PERSON	1,149
OFFICE	710 sf	150 GSF/PERSON	5
RECEIVING	2,160 sf	300 GSF/PERSON	8
NON-SIMULTANEOUS USE (RESTROOMS, BREAK ROOM, FOYER, ECT)	1,422 sf	0	0
TOTAL	73,222 sf		1,162

CHAPTER 10- EGRESS CAPACITY

EXIT CAPACITY WIDTH (PER 1005.3.2)	1,162 x 0.2= 232.4" req'd	276" provided
EXIT NUMBER (1006.3.3)	EXITS REQUIRED= 4 (more than 1,000 occupants) EXITS PROVIDED= 5	
EXIT ACCESS TRAVEL DISTANCE	M= 250' MAX. w/ SPRINKLER (complies, see egress plan)	
CORRIDOR FIRE-RATING (1020.2)	0 HOUR W/ SPRINKLER SYSTEM	
CORRIDOR WIDTH (1020.30)	44" min.	
DEAD END CORRIDORS (1020.5)	50' max. SPRINKLERED (complies, see egress plan this sheet)	

CHAPTER 11- ACCESSIBILITY

2025 BCNYS Chapter 11 and ICC A117.1	

CHAPTER 29- PLUMBING FIXTURE REQUIREMENTS (NO CHANGE TO EXISTING)

MERCHANTILE =	581 MALE, 581 FEMALE Occupants	
	REQUIRED	PROVIDED
WATER CLOSET	1/500= 2 Male + 2 Female	4 Male + 3 Female (existing)
LAVATORY	1/750= 1 Male + 1 Female	3 Male + 3 Female (existing)
DF	2 req'd (1 per 1,000)	2 (existing 1 high 1 low)
SERVICE SINK	1	1 (existing)

ENERGY CONSERVATION CODE

NO ROOF WORK AS PART OF THIS PROJECT. EXISTING EXTERIOR WALLS TO REMAIN. WHERE WALLS ARE EXPOSED DUE TO CEILING DEMOLITION, CONTRACTOR TO ENSURE THAT CAVITY IS PACKED W/ BATT INSUALTION TO BOTTOM OF DECK AND ENCLOSED W/ DRYWALL, OR ADD METAL STUDS AND R13 BATT INSULATION TO EXTEND PACKOUT TO BOTTOM OF DECK.

SEAL

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PROJECT
INTERIOR RENOVATIONS
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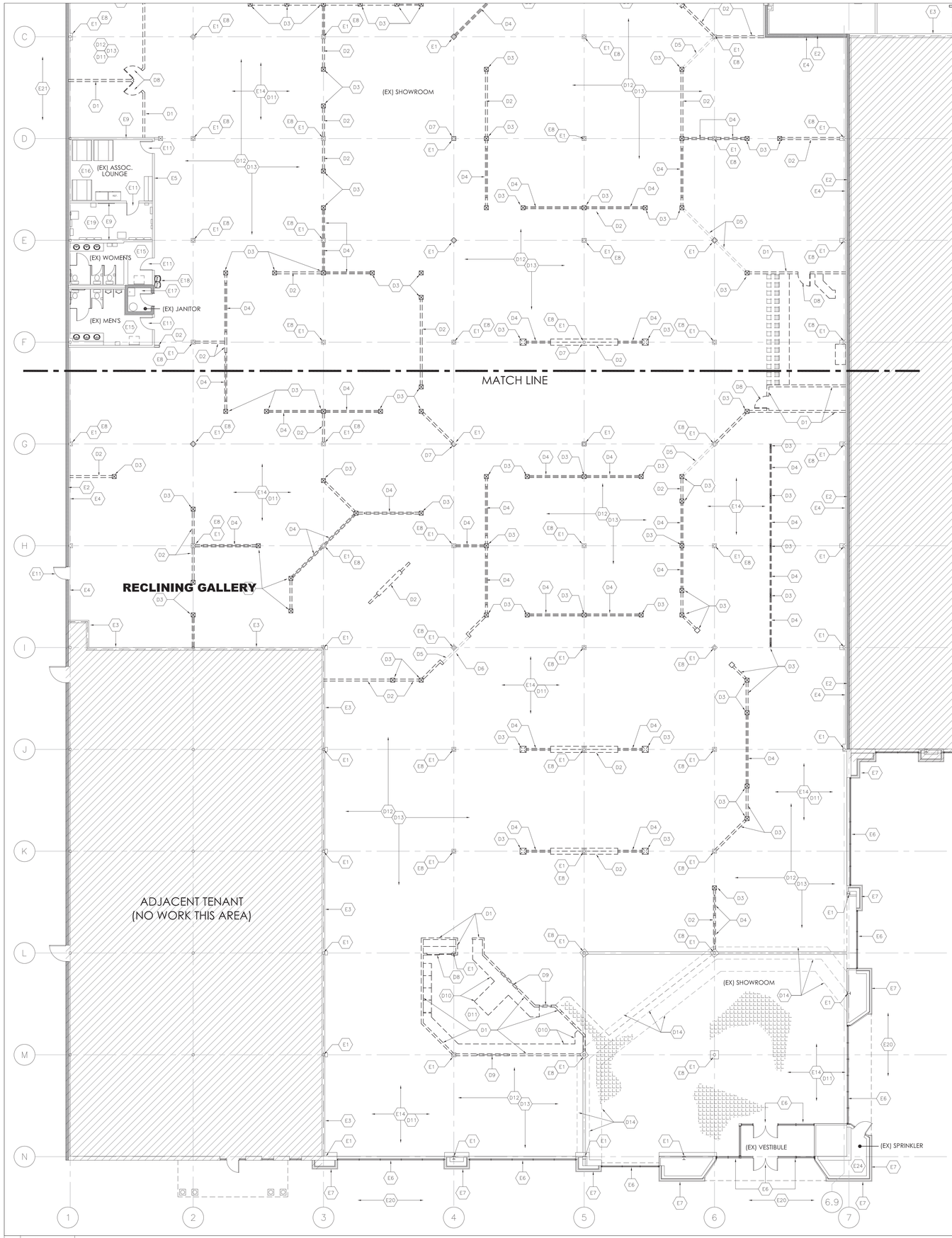
REVISIONS / SUBMISSIONS

0	ISSUED FOR PERMIT	10.09.26

PROJECT # -
DATE: 10.09.26

SHEET TITLE
COVER SHEET & CODE DATA

SHEET NUMBER
C100



KEY NOTES

EXISTING

- E1 (EX) STEEL COLUMN TO REMAIN
- E2 (EX) CMU WALL TO REMAIN
- E3 (EX) DEMISING WALL TO REMAIN
- E4 (EX) EXTERIOR WALL PACKOUT TO REMAIN
- E5 (EX) PARTITION WALL TO REMAIN
- E6 (EX) STOREFRONT SYSTEM TO REMAIN
- E7 (EX) BRICK PIER TO REMAIN
- E8 (EX) COLUMN ENCLOSURE TO REMAIN
- E9 (EX) DISPLAY WALL TO REMAIN
- E10 (EX) DISPLAY COLUMN TO REMAIN
- E11 (EX) DOOR AND FRAME TO REMAIN
- E12 (EX) OVERHEAD FIRE DOOR TO REMAIN
- E13 (EX) LOADING DOCK DOOR TO REMAIN
- E14 (EX) CONCRETE SLAB ON GRADE TO REMAIN
- E15 (EX) BATHROOM. EXISTING FINISHES, FIXTURES, ACCESSORIES TO REMAIN.
- E16 (EX) ASSOCIATE LOUNGE. (EX) COUNTERS, CABINETS, APPLIANCES, FURNITURE TO REMAIN.
- E17 (EX) MOP SINK TO REMAIN, ENSURE PROPER OPERATION
- E18 (EX) DRINKING FOUNTAIN TO REMAIN
- E19 (EX) ELECTRICAL EQUIPMENT, FIRE ALARM, AND TELCOM EQUIPMENT TO REMAIN
- E20 (EX) CONCRETE SIDEWALK TO REMAIN
- E21 (EX) ASPHALT PAVED AREA TO REMAIN
- E22 (EX) BOLLARD TO REMAIN
- E23 (EX) GUARDRAIL TO REMAIN
- E24 (EX) SPRINKLER RISER TO REMAIN

DEMOLITION

- D1 REMOVE (EX) PARTITION WALL ENTIRELY
- D2 REMOVE (EX) DISPLAY WALL ENTIRELY
- D3 REMOVE (EX) DISPLAY WALL COLUMN ENTIRELY
- D4 REMOVE (EX) DISPLAY GRILLE ENTIRELY
- D5 REMOVE (EX) DISPLAY WALL HEADER ENTIRELY
- D6 REMOVE (EX) GALLERY ENTRY FEATURE ENTIRELY
- D7 REMOVE (EX) BUILDING COLUMN WRAP ENTIRELY
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- D9 REMOVE (EX) WINDOW ENTIRELY
- D10 REMOVE (EX) COUNTER
- D11 REMOVE (EX) FLOOR FINISHES
- D12 REMOVE (EX) SUSPENDED CEILING TILE AND GRID SYSTEM ENTIRELY
- D13 REMOVE (EX) SUSPENDED PLASTER CEILING SYSTEM ABOVE ENTIRELY
- D14 REMOVE (EX) GYP. BD. AND METAL STUD SOFFIT ABOVE ENTIRELY

DEMOLITION NOTES

1. THE SCOPE OF WORK INCLUDES THE REMOVAL OF ALL ELEMENTS NECESSARY TO ACCOMMODATE THE NEW WORK. THIS INCLUDES AND IS NOT RESTRICTED TO, ALL FIXTURES, FURNISHINGS, AND EQUIPMENT, ALL INDICATED NON-BEARING INTERIOR WALLS, PARTITIONS, FLOORING DOWN TO A LEVEL WORKING SURFACE, AND ALL SYSTEMS THAT ARE NOT TO BE REUSED IN THE NEW CONSTRUCTION. NO STRUCTURAL ELEMENTS SHALL BE REMOVED WITHOUT OWNER APPROVAL.
2. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND NOTIFY ARCHITECT OF ALL DISCREPANCIES BEFORE PROCEEDING WITH WORK.
3. DURING DEMOLITION SUPPORT ALL EXISTING STRUCTURES AND SYSTEMS WITH BRACING AND SHORING AS REQUIRED TO ASSURE A SAFE WORKING ENVIRONMENT. ANY DAMAGE CAUSED BY THE DEMOLITION PROCESS WILL BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE OWNER OR THE TENANT.
4. IF THE DEMOLITION PROCESS RESULTS IN AN UNSAFE WORKING ENVIRONMENT, STOP WORK IMMEDIATELY AND NOTIFY THE APPROPRIATE AUTHORITY, OWNER, TENANT AND THE ARCHITECT PRIOR TO PROCEEDING.
5. PROVIDE ALL LIFE SAFETY SYSTEMS INCLUDING, BUT NOT LIMITED TO, TEMPORARY LIGHTING, CARBOIES, GUARD RAILS AND VENTILATION SYSTEMS AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS.
6. ALL SYSTEMS THATS ARE REMOVED THAT WERE CONNECTED TO A UTILITY SHALL BE REMOVED BY A TRADE FAMILIAR WITH THAT UTILITY. CAP ALL REMAINING UTILITIES AND MARK THEIR LOCATIONS AT THE SITE AND ON AN AS-BUILT RECORD SET OF DOCUMENTS. NOTIFY THE UTILITY COMPANY AND THE OWNER OF YOUR INTENTIONS PRIOR TO PROCEEDING WITH THE REMOVAL PROCESS.
7. AS WASTE MATERIALS ARE GENERATED, IMMEDIATELY REMOVE AND LEGALLY DISPOSE THE DEBRIS TO AS TO ASSURE A SAFE WORKING ENVIRONMENT. ARRANGE WITH THE OWNER FOR AN ACCEPTABLE REMOVAL PROCESS. ON SITE BURNING OF THE DEBRIS IS NOT PERMITTED.
8. PROTECT ALL EXISTING ON SITE AND OFF SITE CONSTRUCTION THAT IS TO REMAIN.
9. CONFORM TO ALL APPLICABLE AUTHORITIES HAVING JURISDICTION.
10. PRIOR TO STARTING THE CONSTRUCTION PHASE OF WORK, CLEAN THE SITE OF ALL DEMOLITION DEBRIS AND TOOLS, ASSURE THAT THE DEMOLITION IS COMPLETE TO THE POINT WHERE NO ADDITIONAL DEMOLITION WILL BE REQUIRED TO ACCOMMODATE THE NEW WORK.
11. IF AN EXISTING SECURITY SYSTEM IS IN PLACE, NOTIFY OWNER TO DETERMINE IF ANY OR ALL OF THE SYSTEM CAN BE REUSED.
12. CONSULT OWNER AND TENANT PRIOR TO THE START OF DEMOLITION TO DETERMINE THE PRECISE SCOPE OF MATERIALS, FINISHES, AND SYSTEMS THAT ARE TO BE REUSED. THIS SCOPE MAY DIFFER FROM THAT INDICATED IN THESE DOCUMENTS.
13. PROPERLY PATCH ALL EXISTING HOLES THROUGH ALL RATED ELEMENTS. FLOOR AND ROOF (INCLUDING THOSE WHICH ARE LEFT AS A RESULT OF THIS DEMOLITION WORK) AND COORDINATE WITH THE OWNER.
14. IF ANY HAZARDOUS MATERIALS ARE ENCOUNTERED, NOTIFY THE APPROPRIATE AUTHORITY, OWNER, TENANT AND THE ARCHITECT. THE REMOVAL OF ANY HAZARDOUS MATERIALS SHALL BE PERFORMED IN STRICT CONFORMANCE TO THE APPLICABLE REGULATIONS AND PROCEDURES.
15. DO NOT ABANDON ANY ELECTRICAL OR MECHANICAL EQUIPMENT. REMOVE ALL EQUIPMENT NOT BEING REUSED OR REFURBISHED. REFER TO MECHANICAL & ELECTRICAL DWGS.
16. REMOVE ALL ABANDONED PIPING ABOVE THE CEILING LINE TO A LOGICAL POINT AND CAP. VERIFY THAT ANY PIPING TO REMAIN IS SECURELY ATTACHED TO OWNER'S STRUCTURE. REFER TO PLUMBING DWGS.

SHEET NOTES

LEGEND

- (EX) WALL, VERIFY IN FIELD
- (EX) TO BE REMOVED
- REFER TO DEMOLITION KEY NOTES
- (EX) EXISTING
- SECTION OR ELEVATION REFERENCE

REVISION NOTES

REVISIONS THIS SHEET INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

SEAL

REGISTERED ARCHITECT STEVEN J. TOGNARELLI 031176 STATE OF NEW YORK

DESIGN PROFESSIONAL

AEON ARCHITECTURE
33 W. RIDLEY AVENUE, RIDLEY PARK, PA 19078
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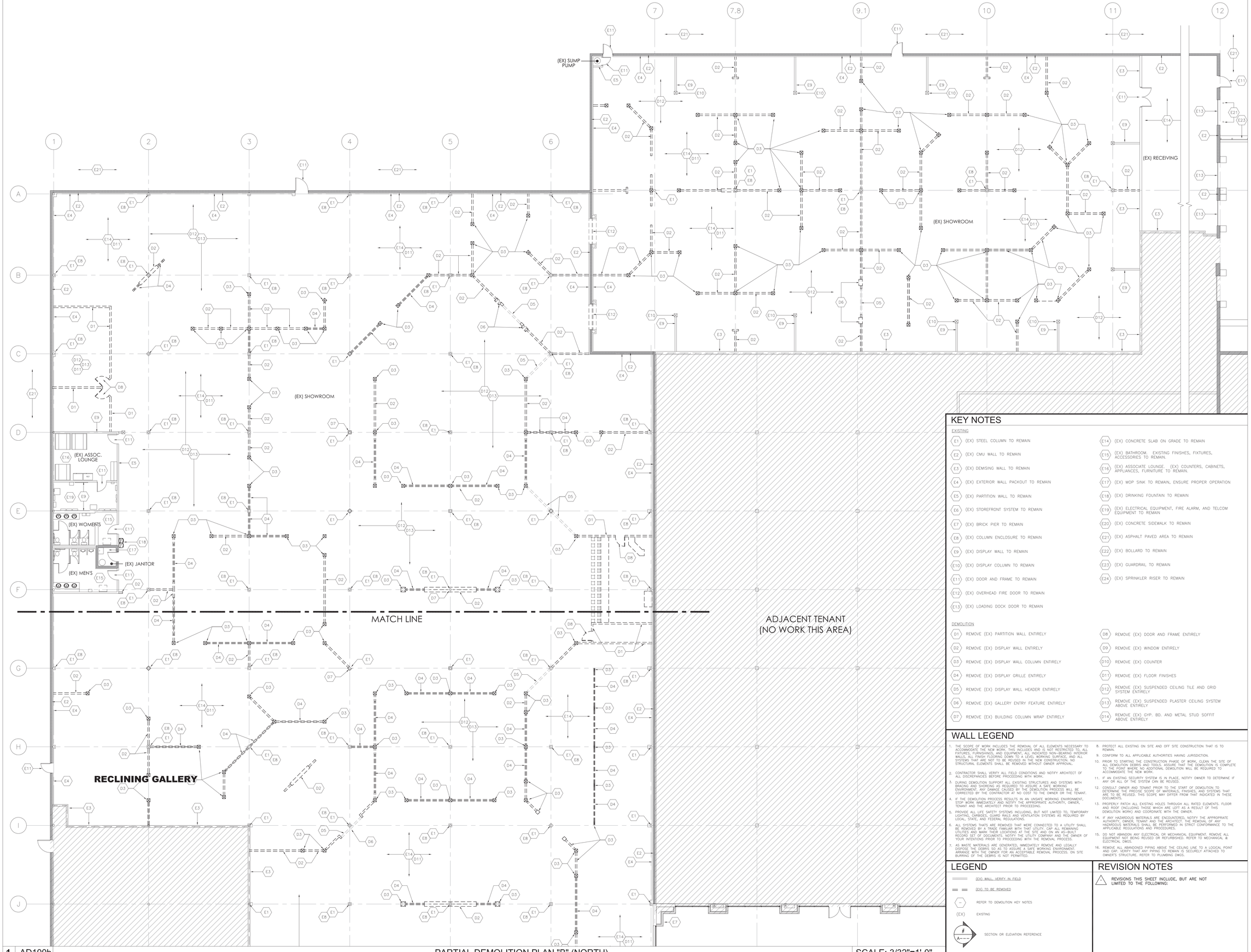
DATE: 10.09.26

SHEET TITLE

DEMOLITION FLOOR PLAN "A"

SHEET NUMBER

AD100a



KEY NOTES

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14. IF ANY HAZARDOUS MATERIALS ARE ENCOUNTERED, NOTIFY THE APPROPRIATE AUTHORITY, OWNER, TENANT AND THE ARCHITECT. THE REMOVAL OF ANY HAZARDOUS MATERIALS SHALL BE PERFORMED IN STRICT CONFORMANCE TO THE APPLICABLE REGULATIONS AND PROCEDURES.
15. DO NOT ABANDON ANY ELECTRICAL OR MECHANICAL EQUIPMENT. REMOVE ALL EQUIPMENT NOT BEING REUSED OR REFURBISHED. REFER TO MECHANICAL & ELECTRICAL DWGS.
16. REMOVE ALL ABANDONED PIPING ABOVE THE CEILING LINE TO A LOGICAL POINT AND CAP. VERIFY THAT ANY PIPING TO REMAIN IS SECURELY ATTACHED TO OWNER'S STRUCTURE. REFER TO PLUMBING DWGS.

LEGEND

- (EX) WALL, VERIFY IN FIELD
- (EX) TO BE REMOVED
- REFER TO DEMOLITION KEY NOTES
- (EX) EXISTING
- SECTION OR ELEVATION REFERENCE

REVISION NOTES

REVISIONS THIS SHEET INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

1 AD100b — PARTIAL DEMOLITION PLAN "B" (NORTH) — SCALE: 3/32"=1'-0"

SEAL

REGISTERED ARCHITECT — STEVEN T. TOMASSETTI — 031518 — STATE OF NEW YORK

DESIGN PROFESSIONAL

AEON ARCHITECTURE
33 W. RIDLEY AVENUE, RIDLEY PARK, PA 19078
Phone (484) 243-0249 Fax (484) 243-0249

CLIENT

Raymour & Flanigan FURNITURE | MATTRESSES
7256 MORGAN ROAD
LIVERPOOL, NY 13088

PROJECT

INTERIOR RENOVATIONS

RAYMOUR & FLANIGAN SHOWROOM
1459 Niagara Falls Blvd
Amherst, NY 14228

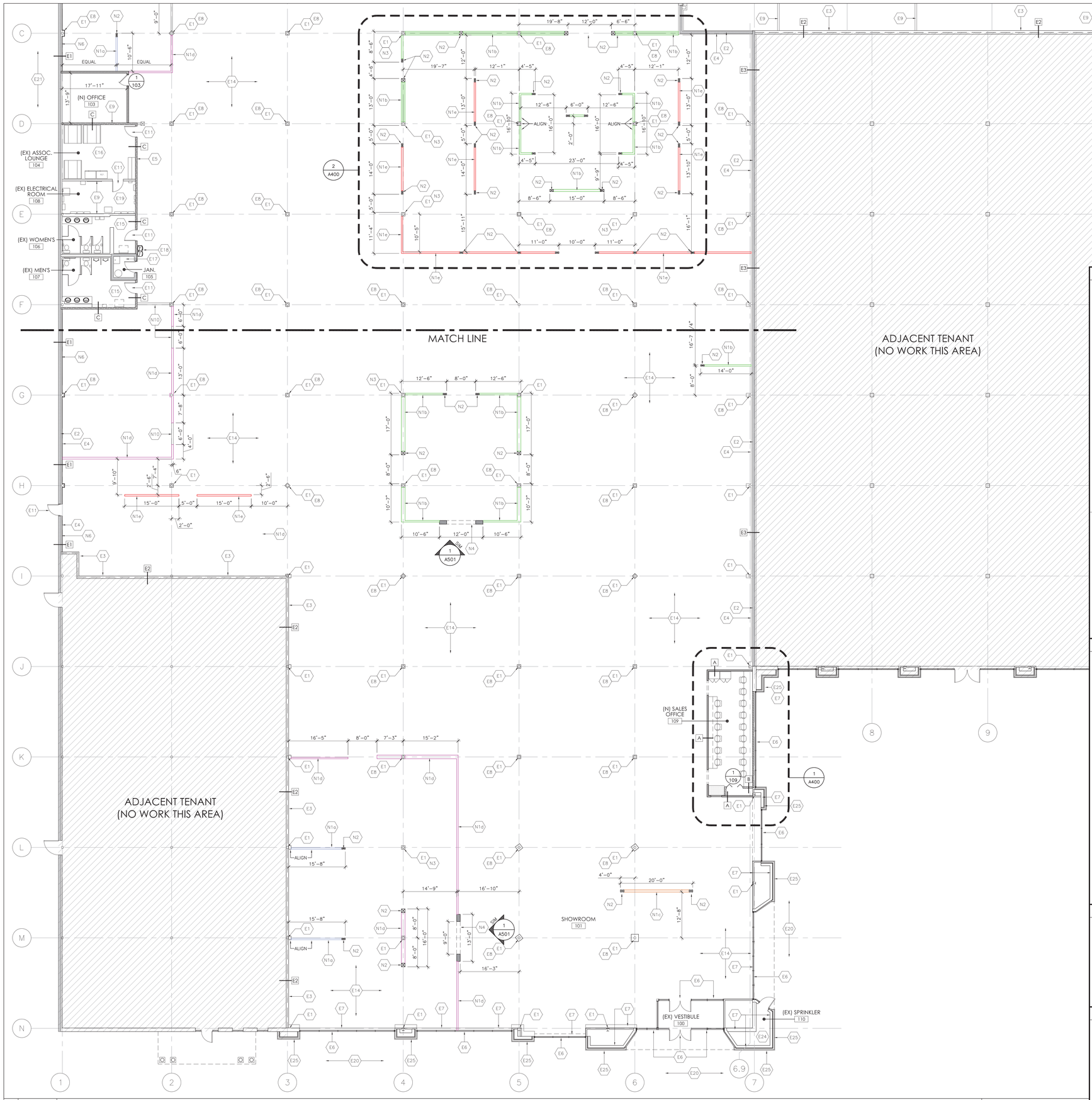
REVISIONS / SUBMISSIONS		
0	ISSUED FOR PERMIT	10.09.26
PROJECT #		-
DATE:		08.31.26

SHEET TITLE

DEMOLITION FLOOR PLAN "B"

SHEET NUMBER

AD100b



KEY NOTES

EXISTING

- E1 (EX) STEEL COLUMN TO REMAIN
- E2 (EX) CMU WALL TO REMAIN
- E3 (EX) DEMISING WALL TO REMAIN, PATCH/REPAIR TO LEVEL 4 FINISH, PRIME AND PAINT. SEE WALL TYPE THIS SHEET.
- E4 (EX) EXTERIOR WALL PACKOUT TO REMAIN, PATCH/REPAIR TO LEVEL 4 FINISH, PRIME AND PAINT. SEE WALL TYPES.
- E5 (EX) PARTITION WALL TO REMAIN, PATCH/REPAIR TO LEVEL 4 FINISH, PRIME AND PAINT
- E6 (EX) STOREFRONT SYSTEM TO REMAIN, ENSURE PROPER OPERATION
- E7 (EX) EXTERIOR WALL @ STOREFRONT TO REMAIN. UPON COMPLETION OF CEILING, IF CAVITY IS EXPOSED FILL W/ BATT INSULATION AND INSTALL 5/8" TYPE "X" GYP. BD., PROVIDE LEVEL 4 FINISH.
- E8 (EX) COLUMN ENCLOSURE TO REMAIN. PATCH/REPAIR FOR LEVEL 4 FINISH, PRIME/PAINT
- E9 (EX) DISPLAY WALL TO REMAIN. PATCH/REPAIR FOR LEVEL 4 FINISH, PRIME/PAINT
- E10 (EX) DISPLAY COLUMN TO REMAIN, VERIFY THAT COLUMN RUNS TO BOTTOM OF DECK ABOVE. IF NOT REBUILD AS REQ'D, ATTACHED TO BOTTOM OF STRUCTURE ABOVE, PROVIDE DEFLECTION TRACK.
- E11 (EX) DOOR AND FRAME TO REMAIN, ENSURE PROPER OPERATION. PREP/PRIME/PAINT.
- E12 (EX) OVERHEAD FIRE DOOR TO REMAIN
- E13 (EX) LOADING DOCK DOOR TO REMAIN, ENSURE PROPER OPERATION
- E14 (EX) CONCRETE SLAB ON GRADE TO REMAIN
- E15 (EX) BATHROOM. EXISTING FINISHES, FIXTURES, ACCESSORIES TO REMAIN. ENSURE PROPER OPERATION. PATCH/REPAIR WALLS & CEILING FOR LEVEL 4 FINISH. PRIME AND PAINT.
- E16 (EX) ASSOCIATE LOUNGE. (EX) COUNTERS, CABINETS, APPLIANCES, FURNITURE TO REMAIN. FIXTURES, ACCESSORIES TO REMAIN. PATCH/REPAIR WALLS & CEILING FOR LEVEL 4 FINISH. PRIME AND PAINT.
- E17 (EX) MOP SINK TO REMAIN, ENSURE PROPER OPERATION
- E18 (EX) DRINKING FOUNTAIN TO REMAIN, ENSURE PROPER OPERATION
- E19 (EX) ELECTRICAL EQUIPMENT, FIRE ALARM, AND TELCOM EQUIPMENT, SEE ELECTRICAL/FA DRAWINGS FOR INFO ON SCOPE OF WORK THIS AREA
- E20 (EX) CONCRETE SIDEWALK TO REMAIN
- E21 (EX) ASPHALT PAVED AREA TO REMAIN
- E22 (EX) BOLLARD TO REMAIN
- E23 (EX) GUARDRAIL TO REMAIN
- E24 (EX) SPRINKLER RISER TO REMAIN
- E25 (EX) BRICK PIER TO REMAIN

NEW CONSTRUCTION

- N1a (N) 8'-0" HIGH DISPLAY WALL
- N1b (N) 10'-0" HIGH DISPLAY WALL
- N1c (N) 12'-0" HIGH DISPLAY WALL
- N1d (N) FULL HIGH DISPLAY WALL
- N2 (N) 12" WIDE DISPLAY WALL COLUMN, RUN TO STRUCTURE ABOVE, PROVIDE DEFLECTION TRACK
- N3 (N) BUILDING COLUMN ENCLOSURE, 5/8" TYPE "X" GYP. BD. (LEVEL 4 FINISH) ON 1-5/8" METAL STUDS. RUN TO BOTTOM OF BEAM ABOVE. PRIMED & PAINTED.
- N4 (N) GALLERY ENTRY FEATURE, SEE DETAILS
- N5 (N) INTERIOR PARTITION WALL, SEE WALL TYPES FOR MORE INFO
- N6 (EX) CMU EXTERIOR WALL TO REMAIN. UPON COMPLETION OF DEMOLITION, INSPECT WALL AND CONFIRM THAT (EX) GYP. BD. AND METAL STUD PACKOUT RUNS TO BOTTOM OF DECK. IF IT DOES NOT, SEE WALL SECTIONS FOR ON SHEET A300 FOR (N) PACKOUT AND INSULATION REQUIREMENTS.
- N7 (N) CONCRETE LANDING
- N8 (N) CONCRETE RAMP, MAX. SLOPE 1:12. SEE A300 AND STRUCTURALS FOR MORE INFO
- N9 (N) GALVANIZED STEEL HANDRAIL @36" AFF., SEE 5/A300 FOR DETAIL
- N10 (N) SOFFIT OR HEADER ABOVE, SEE RCP FOR MORE INFO

WALL LEGEND

A — WALL TYPE B–

NEW FULL HEIGHT INTERIOR PARTITION WALL, 3-5/8" METAL STUDS @ 16" O/C W/ ACOUSTICAL BATT INSULATION IN CAVITY, 5/8" TYPE "X" GYP. BD. BOTH SIDES, TO BOTTOM OF STRUCTURE ABOVE, PROVIDE DEFLECTION TRACK AT TOP

B — WALL TYPE B–

NEW INTERIOR PARTITION WALL, 3-5/8" METAL STUDS @ 16" O/C W/ ACOUSTICAL BATT INSULATION IN CAVITY, 5/8" TYPE "X" GYP. BD. BOTH SIDES, RUN 6" ABOVE CEILING HEIGHT

C — WALL TYPE C–

(EX) PARTITION WALL TO REMAIN. UPON DEMOLITION OF (EX) CEILING SYSTEM, CONFIRM THAT WALL RUNS TO BOTTOM OF DECK. IF NOT, EXTEND W/ METAL STUDS AND 5/8" TYPE "X" GYP. BD., PROVIDE LEVEL 4 FINISH, PRIME & PAINT.

E1 — (EX) CMU EXTERIOR WALL AND INTERIOR PACKOUT TO REMAIN. UPON COMPLETION OF CEILING DEMOLITION, INSPECT INTERIOR SIDE OF WALL. EXTEND PACKOUT TO BOTTOM OF DECK IF REQ'D, PROVIDE R13 BATT INSULATION IN CAVITY, PROVIDE LEVEL 4 FINISH. SEE 1/A300 FOR MORE INFO.

E2 — (EX) DEMISING WALL TO REMAIN, UPON DEMOLITION OF CEILING, CONFIRM THAT WALL RUNS TO BOTTOM OF DECK, ENSURE THAT (1) HOUR RATED IS MAINTAINED. NOTIFY OWNER/ARCHITECT OF EXISTING CONDITION PRIOR TO COMMENCEMENT OF WORK.

E3 — (EX) CMU & FRAME DEMISING WALL TO REMAIN. UPON DEMOLITION OF CEILING, CONFIRM THAT WALL RUNS TO BOTTOM OF DECK, ENSURE THAT (1) HOUR RATED IS MAINTAINED. NOTIFY OWNER/ARCHITECT OF EXISTING CONDITION PRIOR TO COMMENCEMENT OF WORK.

- N1a (N) 8'-0" HIGH DISPLAY WALL
- N1b (N) 10'-0" HIGH DISPLAY WALL
- N1c (N) 12'-0" HIGH DISPLAY WALL
- N1d (N) FULL HIGH DISPLAY WALL
- N1e (N) 4'-6" HIGH DISPLAY WALL
- N2 (N) 12" WIDE DISPLAY WALL COLUMN, RUN TO STRUCTURE ABOVE, PROVIDE DEFLECTION TRACK
- (N) GALLERY ENTRY, SEE ELEVATIONS

SHEET NOTES

LEGEND

- SECTION OR ELEVATION REFERENCE
- KEY NOTE

REVISION NOTES

REVISIONS THIS SHEET INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

1

A100a PARTIAL GROUND FLOOR PLAN "A" (SOUTH) SCALE: 3/32"=1'-0"

SEAL

REGISTERED ARCHITECT THOMAS BETTI 016192 STATE OF NEW YORK

DESIGN PROFESSIONAL

AEON ARCHITECTURE
33 W. RIDLEY AVENUE, RIDLEY PARK, PA 19078
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CLIENT

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7256 MORGAN ROAD
LIVERPOOL, NY 13088

PROJECT

INTERIOR RENOVATIONS

RAYMOUR & FLANIGAN SHOWROOM
1459 Niagara Falls Blvd
Amherst, NY 14228

REVISIONS / SUBMISSIONS

0	ISSUED FOR PERMIT	10.09.26

PROJECT # -

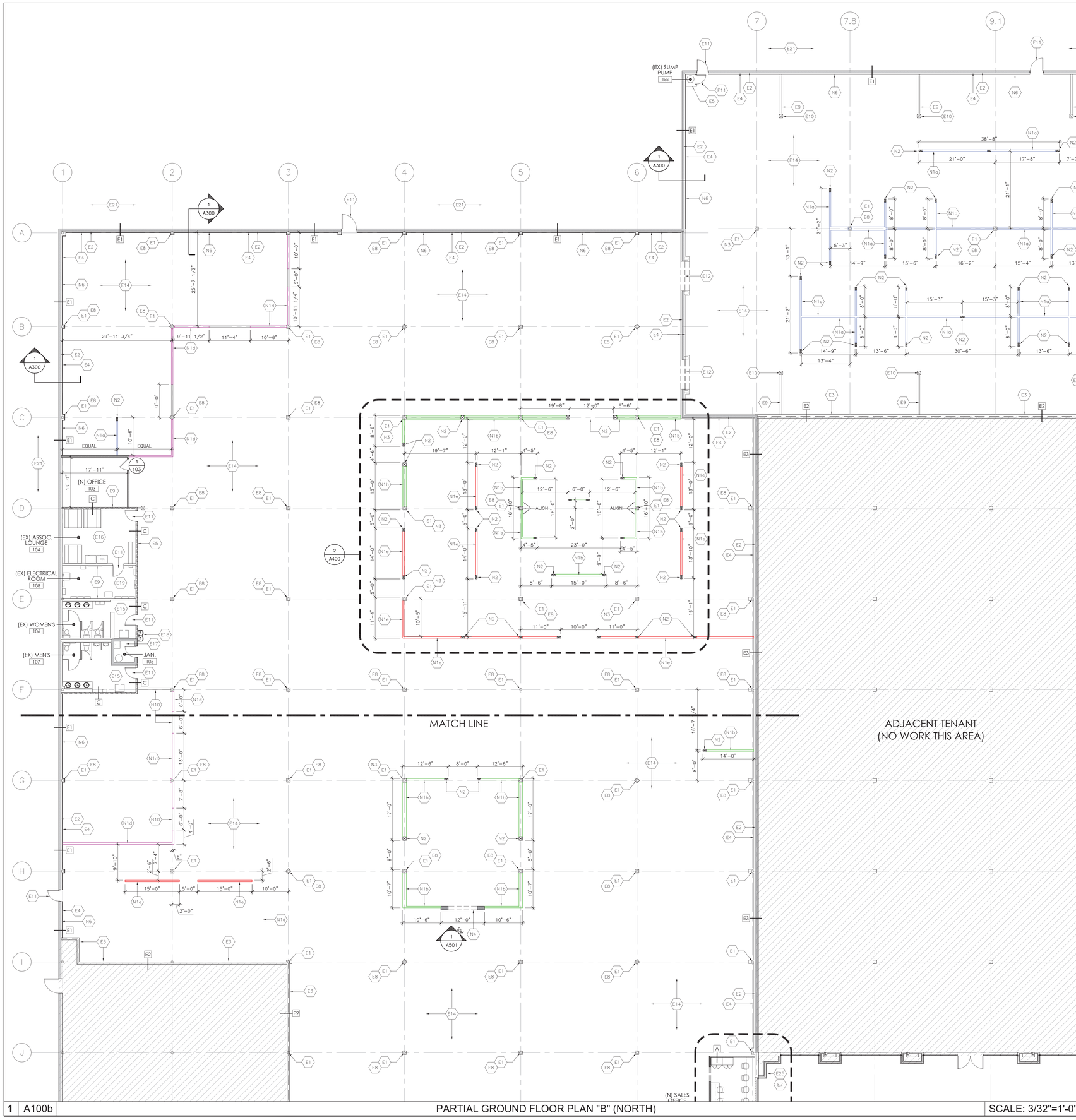
DATE: 10.09.26

SHEET TITLE

FLOOR PLAN "A"

SHEET NUMBER

A100a



KEY NOTES

EXISTING

- E1 (EX) STEEL COLUMN TO REMAIN
- E2 (EX) CMU WALL TO REMAIN
- E3 (EX) DEMISING WALL TO REMAIN, PATCH/REPAIR TO LEVEL 4 FINISH, PRIME AND PAINT. SEE WALL TYPE THIS SHEET.
- E4 (EX) EXTERIOR WALL PACKOUT TO REMAIN, PATCH/REPAIR TO LEVEL 4 FINISH, PRIME AND PAINT. SEE WALL TYPES.
- E5 (EX) PARTITION WALL TO REMAIN, PATCH/REPAIR TO LEVEL 4 FINISH, PRIME AND PAINT
- E6 (EX) STOREFRONT SYSTEM TO REMAIN, ENSURE PROPER OPERATION
- E7 (EX) EXTERIOR WALL @ STOREFRONT TO REMAIN. UPON COMPLETION OF CEILING, IF CAVITY IS EXPOSED FILL W/ BATT INSULATION AND INSTALL 5/8" TYPE "X" GYP. BD., PROVIDE LEVEL 4 FINISH.
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- N9 (N) GALVANIZED STEEL HANDRAIL @36" AFF., SEE 5/A300 FOR DETAIL
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WALL LEGEND

WALL TYPE A–
NEW FULL HEIGHT INTERIOR PARTITION WALL, 3-5/8" METAL STUDS @ 16" O/C W/ ACOUSTICAL BATT INSULATION IN CAVITY, 5/8" TYPE "X" GYP. BD. BOTH SIDES, TO BOTTOM OF STRUCTURE ABOVE, PROVIDE DEFLECTION TRACK AT TOP

WALL TYPE B–
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WALL TYPE C–
(EX) PARTITION WALL TO REMAIN. UPON DEMOLITION OF (EX) CEILING SYSTEM, CONFIRM THAT WALL RUNS TO BOTTOM OF DECK. IF NOT, EXTEND W/ METAL STUDS AND 5/8" TYPE "X" GYP. BD., PROVIDE LEVEL 4 FINISH, PRIME & PAINT.

E1 (EX) CMU EXTERIOR WALL AND INTERIOR PACKOUT TO REMAIN. UPON COMPLETION OF CEILING DEMOLITION, INSPECT INTERIOR SIDE OF WALL, EXTEND PACKOUT TO BOTTOM OF DECK IF REQ'D, PROVIDE R13 BATT INSULATION IN CAVITY, PROVIDE LEVEL 4 FINISH. SEE 1/A300 FOR MORE INFO.

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- N1d (N) FULL HIGH DISPLAY WALL
- N1e (N) 4'-6" HIGH DISPLAY WALL
- N2 (N) 12" WIDE DISPLAY WALL COLUMN, RUN TO STRUCTURE ABOVE, PROVIDE DEFLECTION TRACK
- (N) GALLERY ENTRY, SEE ELEVATIONS

1 A100b — PARTIAL GROUND FLOOR PLAN "B" (NORTH) — SCALE: 3/32"=1'-0"

SEAL

DESIGN PROFESSIONAL
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CLIENT
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7256 MORGAN ROAD
LIVERPOOL, NY 13088

PROJECT
INTERIOR RENOVATIONS
RAYMOUR & FLANIGAN SHOWROOM
1459 Niagara Falls Blvd
Amherst, NY 14228

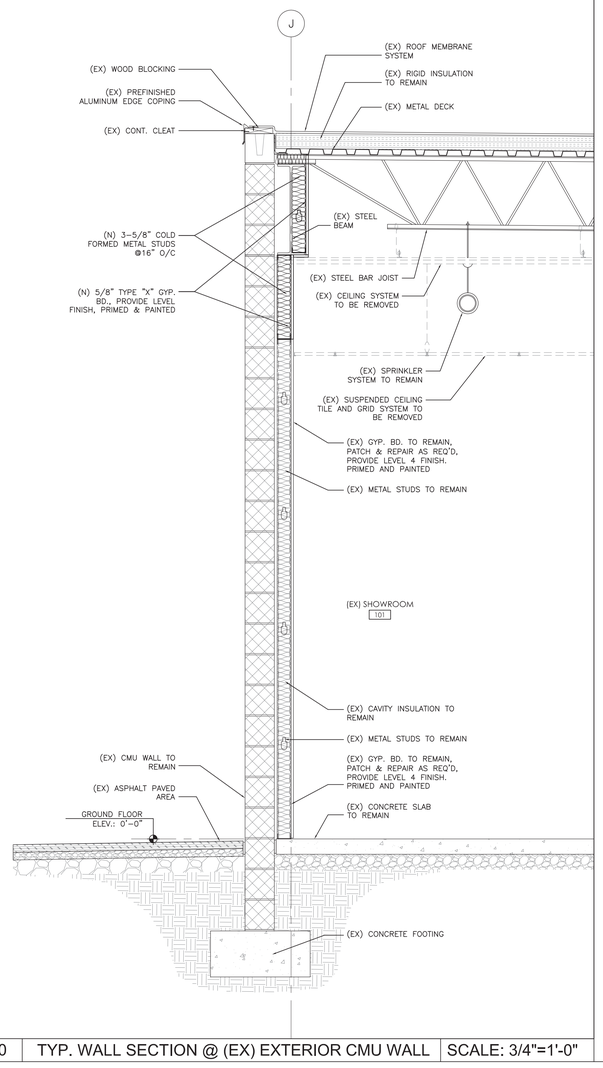
REVISIONS / SUBMISSIONS

0	ISSUED FOR PERMIT	10.09.26

PROJECT # -
DATE: 10.09.26

SHEET TITLE
FLOOR PLAN "B"

SHEET NUMBER
A100b



1 | A300 | TYP. WALL SECTION @ (EX) EXTERIOR CMU WALL | SCALE: 3/4"=1'-0"

SEAL

REGISTERED ARCHITECT
STEVEN J. TOMASSETTI
STATE OF NEW YORK
031318

DESIGN PROFESSIONAL

AEON ARCHITECTURE

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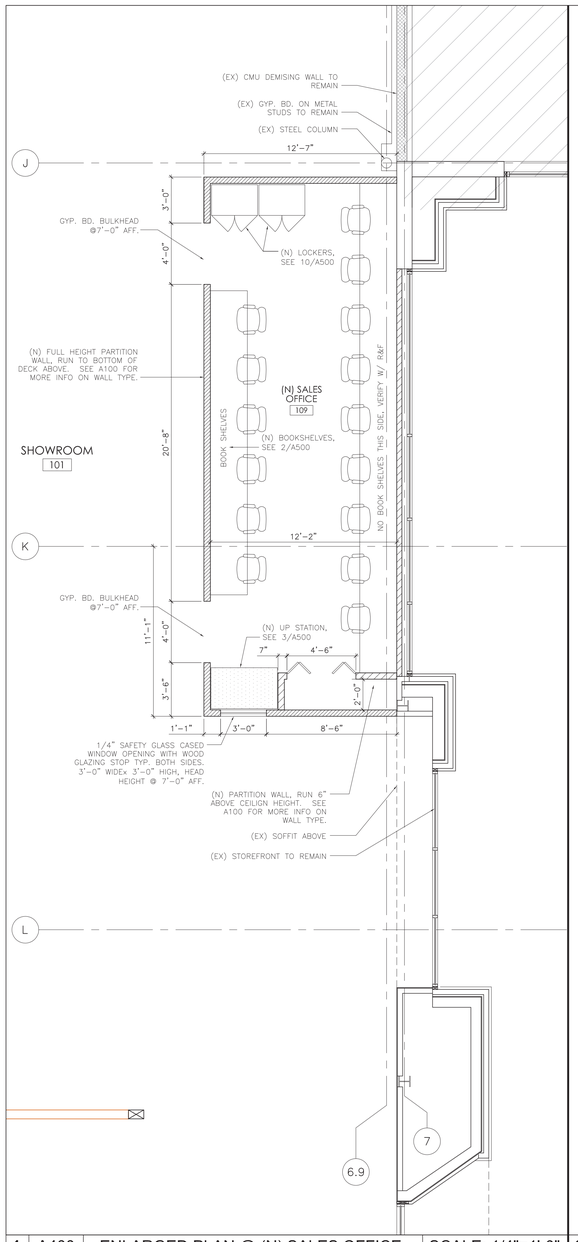
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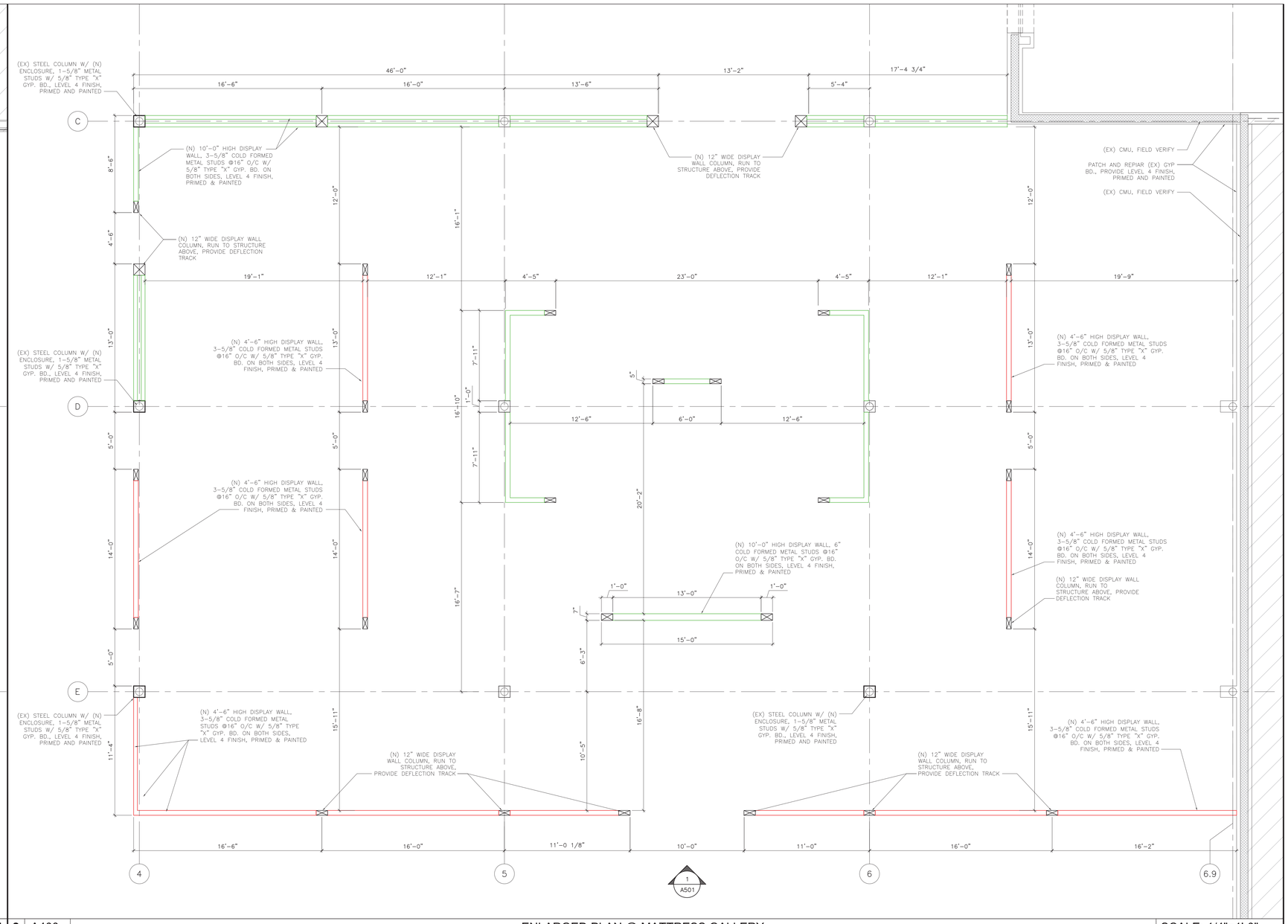
SECTION & DETAILS

SHEET NUMBER

A300



1 | A400 | ENLARGED PLAN @ (N) SALES OFFICE | SCALE: 1/4"=1'-0"



2 | A400 | ENLARGED PLAN @ MATTRESS GALLERY | SCALE: 1/4"=1'-0"

SEAL

REGISTERED ARCHITECT ★ STEVEN T. TOMASSETTI ★ 031918 ★ STATE OF NEW YORK

DESIGN PROFESSIONAL

AEON ARCHITECTURE

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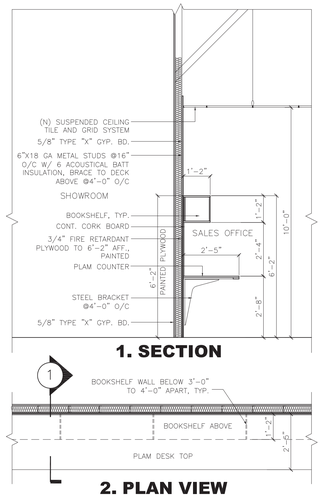
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SHEET TITLE

ENLARGED PLANS

SHEET NUMBER

A400

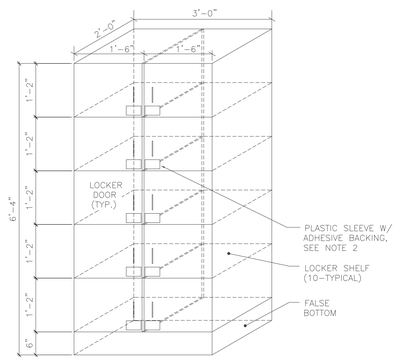


1. SECTION

2. PLAN VIEW

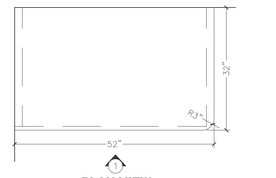
NOTE:
1. DESK TOPS AND BOOKSHELVES TO BE "WILSONART" LAMINATE, COLOR D50-60, "KHAKI BROWN"
2. MILLWORK CONTRACTOR TO COORDINATE GROMMIT LOCATIONS FOR WIRE MOLD WITH ELECTRICAL CONTRACTOR AS REQ'D

1	A500	SALES OFFICE DESK & BOOKSHELF	SCALE: 1/4"=1'-0"

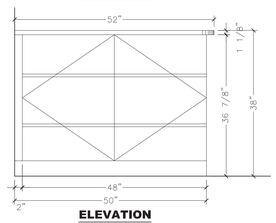


NOTES:
1. ALL SURFACES TO BE "WILSONART" LAMINATE, COLOR D50-60, "KHAKI BROWN"
2. PLASTIC SLEEVE TO BE ABLE TO HOLD A 2"x 3 1/2" RAYMOUR & FLANIGAN BUSINESS CARD. APPLY PLASTIC SLEEVE UNDER LOCKER HANDLE.

2	A500	SALES LOCKERS	SCALE: 3/4"=1'-0"



PLAN VIEW



ELEVATION

NOTES:
1. ALL SURFACES TO BE "WILSONART" LAMINATE, COLOR D50-60, "KHAKI BROWN"

3	A500	UPS STATION	SCALE: 3/8"=1'-0"

SEAL

REGISTERED ARCHITECT
STEVEN T. TOMASSETTI
STATE OF NEW YORK
031318

DESIGN PROFESSIONAL

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33 W. RIDLEY AVENUE, RIDLEY PARK, PA 19078
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CLIENT

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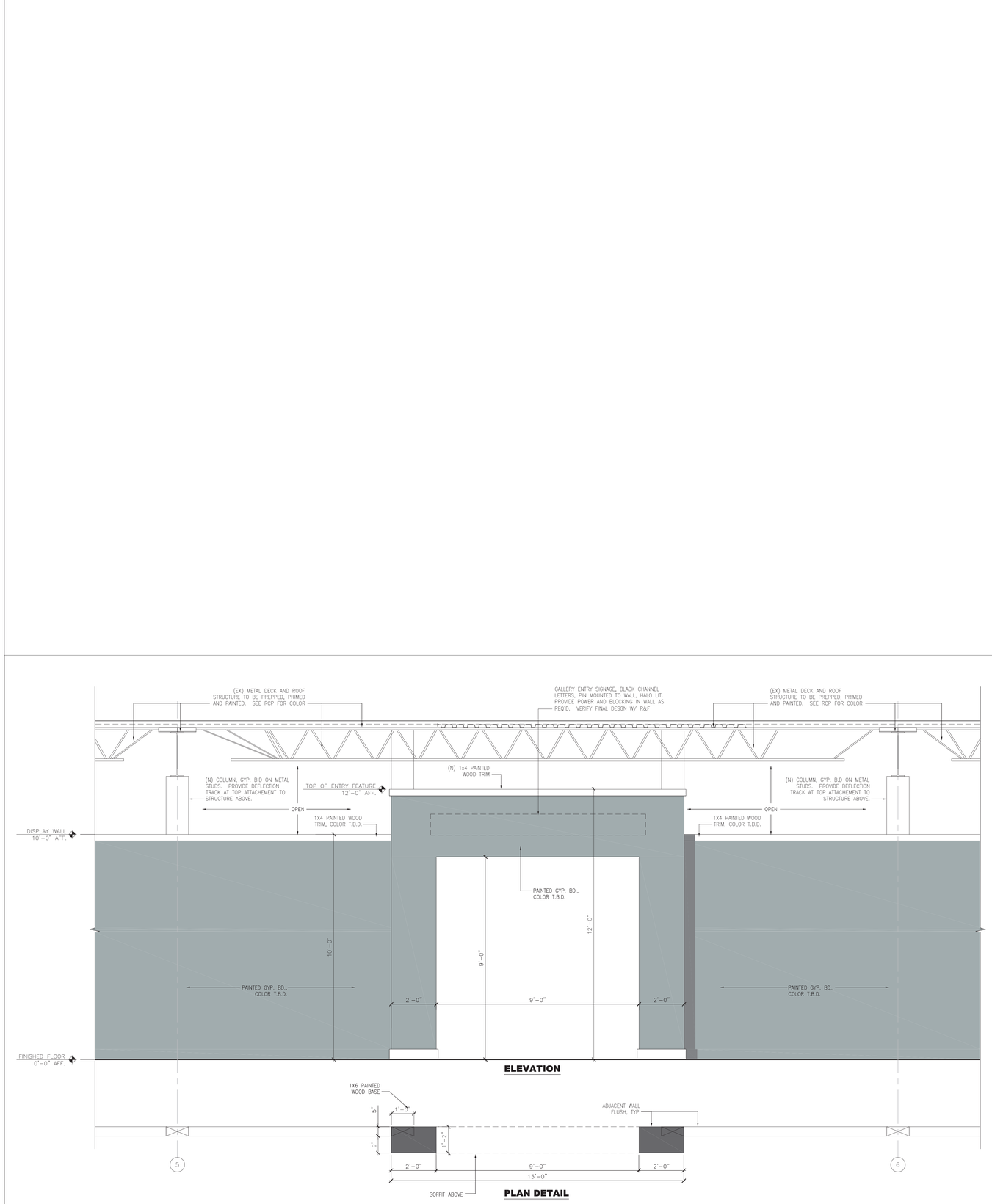
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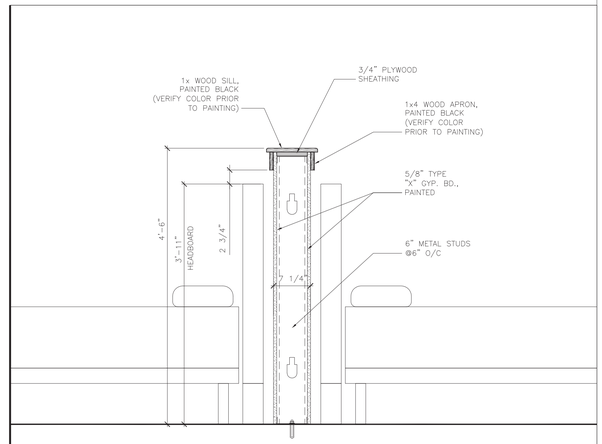
INTERIOR DETAILS

SHEET NUMBER

A500



1 | A501 | ELEVATION @ TYPICAL GALLERY ENTRANCE | SCALE: 1/2"=1'-0"



2 | A501 | DETAIL @ MATTRESS GALLERY KNEE WALL | SCALE: 1"=1'-0"

SEAL

REGISTERED ARCHITECT STEVEN T. TOMASSETTI 031318 STATE OF NEW YORK

DESIGN PROFESSIONAL

AEON ARCHITECTURE

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INTERIOR ELEVATIONS

SHEET NUMBER

A501

DOOR SCHEDULE

DOOR No.	LOCATION	SIZE DOOR	SIZE CORE	SIZE FRAME	SIZE WIDTH	SIZE HEIGHT	SIZE THICKNESS	TYPE	RATING	HARDWARE	FINISH	COMMENTS
1/103	(N) OFFICE	EXISTING TO BE RELOCATED TO NEW OPENING									PAINT HIGH GLOSS ENAMEL	
1/109	(N) SALES OFFICE (CLOSET)	WD	SC	HM	4'-6"	7'-0"	1-3/4"	E	NONE	2	OAK VENEER FLUSH WOOD DOOR STAINED TO MATCH SHERWIN WILLIAMS SW118-K FRUITWOOD	

HARDWARE GROUPS

HARDWARE GROUP No. 1 (Offices and Conference Room)

(OFFICE- SINGLE DOOR)

- 3 HINGES
- OFFICE LOCK
- CLOSER
- DOORSTOP

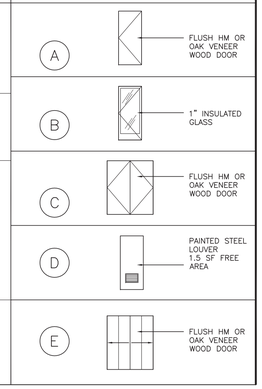
HARDWARE GROUP No. 2 (Bifold Closet Doors)

6- Hinges
2- Pull
2- Bifold Door Track Hardware

NOTES:

1. GC TO COORDINATE KEYING REQUIREMENTS WITH R&F

DOOR TYPE



FINISH SCHEDULE

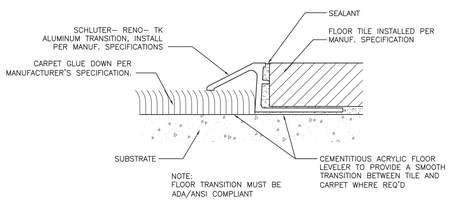
ROOM #	ROOM	FLOOR	WALLS	BASE	CEILING	COMMENTS
100	(EX) VESTIBULE	(EX) WALKOFF TO REMAIN	PAINTED GYP. BD.	(EX) 4" VINYL	(EX) EXTRUDED ALUMINUM & GLASS VESTIBULE SYSTEM	
101	SHOWROOM	(N) CARPET	PAINTED GYP. BD.	NONE	EXPOSED STRUCTURE, PAINTED	
102	(EX) RECEIVING	(EX) CONCRETE TO REMAIN	PAINTED GYP. BD.	NONE	EXPOSED STRUCTURE	
103	(N) OFFICE	(N) CARPET	PAINTED GYP. BD.	(N) 4" VINYL	(N) 2X4 SUSPENDED ACOUSTICAL SYSTEM	
104	(EX) ASSOCIATE LOUNGE	(EX) VCT TO REMAIN	PAINTED GYP. BD.	(EX) TO REMAIN	(EX) 2X4 SUSPENDED ACOUSTICAL SYSTEM TO REMAIN	
105	(EX) JANITOR	(EX) TO REMAIN	PAINTED GYP. BD.	(EX) TO REMAIN	(EX) TO REMAIN	
106	(EX) WOMEN	(EX) TILE TO REMAIN	PAINTED GYP. BD.	(EX) TO REMAIN	(EX) GYP. BD. TO BE PAINTED	
107	(EX) MEN	(EX) TILE TO REMAIN	PAINTED GYP. BD.	(EX) TO REMAIN	(EX) GYP. BD. TO BE PAINTED	
108	(EX) ELECTRICAL ROOM	(EX) CONCRETE	(EX) CMU	NONE	(EX) TO REMAIN	
109	(N) SALES OFFICE	(N) CARPET	(N) PAINTED GYP. BD.	(N) 4" VINYL	(N) 2X4 SUSPENDED ACOUSTICAL SYSTEM	
110	SPRINKLER	(EX) TO REMAIN	(EX) TO REMAIN	(EX) TO REMAIN	(EX) TO REMAIN	

NOTES:

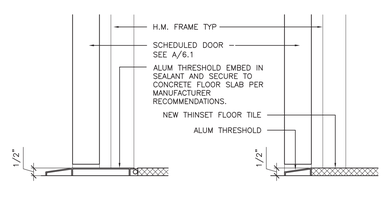
1. R&F TO PROVIDE SPECIFICATIONS AND COLORS FOR ALL PAINTS.
2. ALL FURNITURE & MODULAR FURNITURE SYSTEMS TO BE PROVIDED BY R&F
3. ALL CARPET TO BE SUPPLIED BY R&F
4. CONFIRM ALL FINISHES TYPES, LOCATIONS, ECT. WITH R&F

ABBREVIATIONS:

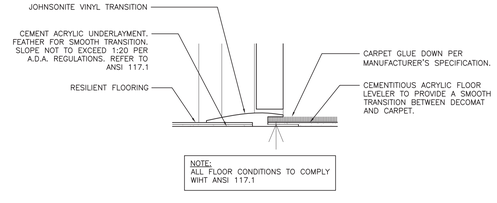
VCT - VINYL COMPOSITION TILE COMMERCIAL GRADE



1 A600 TYP. CARPET TO TILE DETAIL SCALE: NTS



2 A600 DOOR THRESHOLD DETAIL SCALE: NTS



3 A600 DOOR THRESHOLD DETAIL SCALE: NTS

REGISTERED ARCHITECT STEVEN T. TOGNARELLI 018198 STATE OF NEW YORK

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DESIGN PROFESSIONAL

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CLIENT

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FURNITURE | MATTRESSES
7256 MORGAN ROAD
LIVERPOOL, NY 13088

PROJECT

INTERIOR RENOVATIONS

RAYMOUR & FLANIGAN SHOWROOM
1459 Niagara Falls Blvd
Amherst, NY 14228

REVISIONS / SUBMISSIONS

0	ISSUED FOR PERMIT	10.09.26

PROJECT # -

DATE: 10.09.26

SHEET TITLE

SCHEDULES & DETAILS

SHEET NUMBER

A600



Figure 505.10.2
Top Handrail Extensions
at Stairs

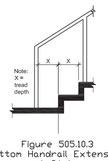


Figure 505.10.3
Bottom Handrail Extensions
at Stairs

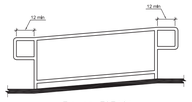
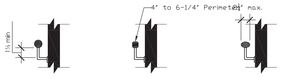
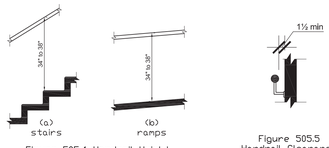


Figure 505.10.1
Top and Bottom Handrail Extensions
at Ramps



(a) circular (b) non circular (c) non circular

Figure 505.7 Handrail Cross Section



(a) stairs (b) ramps

Figure 505.4 Handrail Height

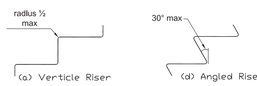
Figure 505.5
Handrail Clearance

505.2 Location. Handrails shall be provided on both sides of stairs and ramps.
505.3 Continuity. Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs or ramps shall be continuous between flights or runs. Other handrails shall comply with Sections 505.10 and 307.
505.4 Height. Top of gripping surfaces of handrails shall be 34" minimum and 38" maximum vertically above stair nosings and ramp surfaces. Handrails shall be at a consistent height above stair nosings and ramp surfaces and walking surfaces.
505.5 Clearance. Clear space between handrail gripping surface and adjacent surfaces shall be 1-½" minimum.
505.6 Gripping Surface. Gripping surfaces shall be continuous, without interruption by newell posts, or other construction elements or obstructions.
505.7 Cross Section. Handrails shall have a cross section complying with Section 505.7.1 or 505.72.

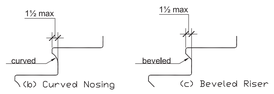
505.7.1 Circular Cross Sections. Handrails with a circular cross section shall have an outside diameter of 1-1/4" minimum and 2" maximum.

505.7.2 Non-Circular Cross Sections. Handrails with a noncircular cross section shall have a perimeter dimension of 4" minimum and 6-1/4" maximum, and a cross-section dimension is 2-¼" maximum.
505.10 Handrail Extensions.
505.10.1 Top and Bottom Extension at Ramps. Ramp handrails shall extend horizontally above the landing 12" minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or floor, or shall be continuous to the handrail of an adjacent ramp run.
505.10.2 Top Extensions at Stairs. At the top of a stair flight, handrails shall extend horizontally above the landing for 12" minimum, beginning directly above the landing nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight
505.10.3 Bottom Extension at Stairs. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance equal to one tread depth beyond the bottom tread nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

1	A700	SECTION 505: HANDRAILS	SCALE: NONE



(a) Verticle Riser (d) Angled Riser



(b) Curved Nosing (c) Beveled Riser

Figure 504.5 Stair Nosings



Figure 504.2 Treads and Risers for Accessible Stairways

504.2 Treads and Risers. All steps on a flight of stairs shall have uniform riser heights and uniform tread depth. Risers shall be 4" minimum and 7" maximum in height. Treads shall be 11" minimum in depth.
504.3 Open Risers. Open risers shall not be permitted.
504.4 Tread Surface. Stair treads shall comply with Section 302 and shall have a slope not steeper than 1:48.
504.5 Nosings. The radius of curvature at the leading edge of the tread shall be ½" maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30° maximum from vertical. The permitted projection of the nosing shall be 1-½" maximum over the tread or floor below
504.6 Handrails. Stairs shall have handrails complying with Section 505.

2	A700	SECTION 504- STAIRWAYS	SCALE: NONE

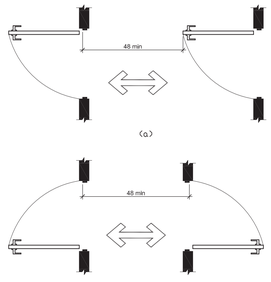


Figure 404.2.5
Two Doors in Series

APPROACH DIRECTION	MINIMUM CLEARANCES
	Perpendicular to Doorway
From Front	48"
From Side	42"

Table 404.2.4.3 -- Maneuvering
Clearances for Doorways without
Doors

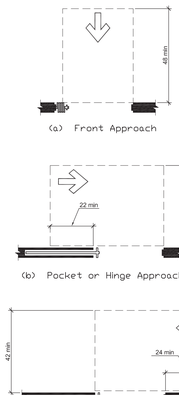
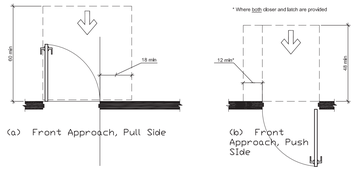


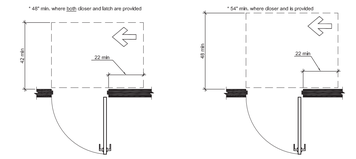
Figure 404.2.3.3 -- Maneuvering
Clearances at Sliding and Folding
Doors

APPROACH DIRECTION	MINIMUM CLEARANCES	
	Perpendicular to Door (1)	Parallel to Door
From Front	48"	0"
From Nonlatch Side	42"	22" (1)
From Latch Side	42"	24"

NOTES:
(1) Beyond pocket or hinge side

Table 404.2.3.3 -- Maneuvering
Clearances for Sliding and Folding
Doors





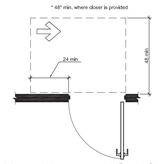


Figure 404.2.3.2
Maneuvering Clearances at Swinging
Doors

TYPE OF USE		MINIMUM CLEARANCES	
Approach Direction	Door Side	Perpendicular to Door (1)	Beyond Latch Parallel to Door
From Front	Pull	60"	18"
From Front	Push	48"	0" (3)
From Hinge	Pull	60" 54"	36" 42"
From Hinge	Push	42" (2)	22" (3&4)
From Latch	Pull	48" (2)	24"
From Latch	Push	42" (2)	24"

NOTES:
(1) Add 6" if closer and latch provided
(2) Add 6" if closer is provided
(3) Add 12" beyond latch if closer and lath provided
(4) Beyond hinge side

Table 404.2.3.2 -- Maneuvering
Clearances of Manual Swinging Doors

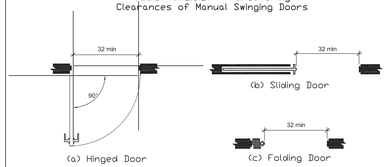


Figure 404.2.2
Clear Width of Doorways

404 Doors and Doorways
404.1 General. Doors and doorways that are part of an accessible route shall comply with Section 404
404.2 Manual Doors. Manual doors and doorways, and manual gates, including ticket gates, shall comply with Section 404.2
Exception: Doors, doorways, and gates designed to be operated only by security personnel shall not be required to comply with Sections 404.2.6, 404.2.7, and 404.2.8.
404.2.1 Double-Leaf Doorways. At least one of the active leaves of doorways with two leaves shall comply with Sections 404.2.2 and 404.2.3.
404.2.2 Clear Width. Doorways shall have a clear opening of 32" minimum. Clear opening of doorways with swinging doors shall be measures between the face of door and stop, with the door open 90°. Openings more than 24" in depth at doors and doorways without doors shall provide a clear opening of 36" minimum. There shall be no projections into the clear opening width lower than 34" above the floor. Projections into the clear opening width between 34" and 80" above the floor shall not exceed 4".
Exception: 1. Door closers and door stops shall be permitted to be 78 inches minimum above the floor.
2. In alterations, a projection of ⅜" maximum into the required clear opening width shall be permitted for the latch side stop.
404.2.3 Maneuvering Clearances. Minimum maneuvering clearances at doors shall comply with Section 404.2.3 and shall include the full clear opening width of the doorway. Required door maneuvering clearances shall not include knee and toe clearance
404.2.3.1 Floor or Ground Surfaces. Floor surface within the maneuvering clearances shall have a slope not steeper than 1 :48 and shall comply with Section 302
404.2.3.2 Swinging Doors. Swinging doors shall have maneuvering clearances complying with Table 404.2.3.2
404.2.3.3 Sliding and Folding Doors. Sliding Doors and Folding doors shall have maneuvering clearances complying with Table 404.2.4.2.
404.2.3.4 Doorways without Doors. Doorways without doors that are less than 36" in width shall have maneuvering clearances complying with Table 404.2.3.4
404.2.3.5 Recessed Doors. Where any obstruction within 18" of the latch side of a doorway projects more than 8" beyond the face of the door, measured perpendicular to the face of the door, maneuvering clearances for forward approach shall be provided.
404.2.4 Thresholds at Doorways. If provided, thresholds at doorways shall be ½" maximum in height. Raised thresholds and changes in level at doorways shall comply with Sections 302 and 303.
Exception: An existing or altered threshold shall be permitted to be ¾" maximum in height provided that the threshold has a beveled edge on each side with a maximum slope of 1:2 for the height exceeding ¼"
404.2.5 Two Doors in Series. Distance between two hinged or pivoted doors in series shall be 48" minimum plus the width of any door swinging into the space. The space between the doors shall provide a turning space complying with Section 304.
404.2.6 Door Hardware. Handles, pulls, latches, locks and other operable parts on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, pinching or twisting of the wrist to operate. Such hardware shall be 34" minimum and 48" maximum above the floor. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.
Exception: Locks used only for security purposes and not used for normal operation shall not be required to comply with Section 404.2.6

3	A700	SECTION 404: DOORS AND DOORWAYS	SCALE: NONE

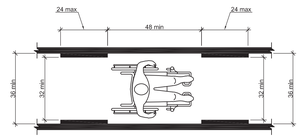


Figure 403.5
Clear Width of an Accessible Route

Segment Length	AMinimum Segment Width
Less Than or Equal to 24"	32" (See Note)
Greater Than 24"	36"
Note: Consecutive segments of 32" wide must be separated by a route segment 48" long minimum and 36" wide minimum.	

Table 403.5
Clear Width of an Accessible Route

4	A700	SECTION 403.5: ACCESSIBLE ROUTE	N.T.S.

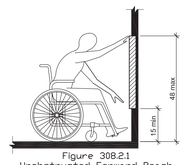


Figure 308.2.1
Unobstructed Forward Reach

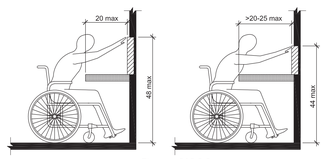


Figure 308.2.2
Obstructed High Forward Reach

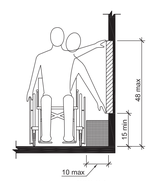


Figure 308.3.1
Unobstructed Side Reach

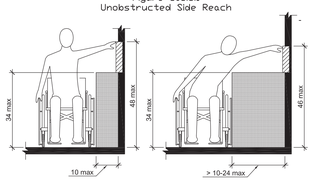


Figure 308.3.2
Obstructed High Side Reach

308.2 Forward Reach.
308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48" maximum and the low forward reach shall be 15" minimum above the floor or ground.
308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space complying with Section 305 shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48" maximum above the floor where the reach depth is 20" maximum. Where the reach depth exceeds 20", the high forward reach shall be 44" maximum above the floor, and the reach depth shall be 25" maximum.

308.3 Side Reach.
308.3.1 Unobstructed. Where a clear floor space complying with Section 305 allows a parallel approach to an element and the edge of the clear floor space is 10" maximum from the element, the high side reach shall be 48" maximum and the low side reach shall be 15 " minimum above the floor.
Exception: Existing elements that are not altered shall be permitted at 54" maximum above the floor
308.3.2 Obstructed High Reach. Where a clear floor space complying with Section 305 allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34" maximum above the floor and the depth of the obstruction shall be 24" maximum. The high side reach shall be 48" maximum above the floor for a reach depth of 10" maximum. Where the reach depth exceeds 10", the high side reach shall be 46" maximum above the floor for a reach depth of 24" maximum.

5	A700	SECTION 308: REACH RANGES	SCALE: NONE

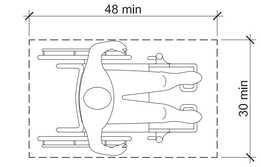
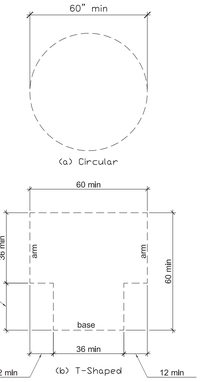


Figure 305.3
Size of Clear Ground Space

305.2 Floor or Ground Surface. Floor or ground surfaces of a clear ground space shall have a slope not steeper than 1:48 and shall comply with ICC/ANSI A117.1-2009 Section 302.
305.3 Size. Clear ground space shall be 30" minimum by 48" minimum.(Fig. 304.3)
305.5 Position. Unless otherwise specified, the clear floor or ground space shall be positioned for either forward or parallel approach to an element.

6	A700	SECT. 305: CLEAR GROUND SPACE	N.T.S.



(a) Circular (b) T-Shaped

Figure 304.3
Size of Wheelchair Turning Space

304.2 Floor Surface. Floor or ground surfaces of a wheelchair turning space shall have a slope not steeper than 1:48 and shall comply with ICC/ANSI A117.1-2009 Section 302.
304.3 Size. Wheelchair turning space shall comply with ICC/ANSI A-117.1-2009 Sections 304.3.1 or 304.3.2. (Fig. 304.3)

7	A700	SECT. 303: TURNING CLEARANCE	N.T.S.

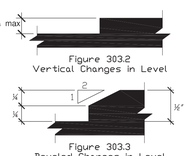


Figure 303.2
Vertical Changes in Level

Figure 303.3
Beveled Changes in Level

303.2 Vertical. Changes in level of ¼" high maximum shall be permitted to be vertical. (Fig. 303.2)
303.3 Beveled. Changes in level between ¼" and ½" high maximum shall be beveled with a slope not steeper than 1:2 (Fig. 303.3)
303.4 Ramped. Changes in level greater than ½" shall be ramped and shall comply with ICC/ANSI A117.1-2009 Section 405 and 406.

8	A700	SECTION 303: LEVEL CHANGES	N.T.S.

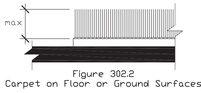


Figure 302.2
Carpet on Floor or Ground Surfaces

302 General. Floor surfaces shall be stable, firm, and slip resistant, and shall comply with ICC/ANSI A117.1-2009 Section 302. Changes in level in floor surfaces shall comply with section 303.
302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. The pile shall be 1/2 inch (13 mm) maximum in height. Exposed edges of carpet shall be fastened to the floor and shall have trim along the entire length of the exposed edge. Carpet edge trim shall comply with Section 303. (FIG. 302.2)

9	A700	SEC. 302: FLOOR/GROUND SURFACES	N.T.S.

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CLIENT
Raymour & Flanigan
FURNITURE | MATTRESSES
7256 MORGAN ROAD
LIVERPOOL, NY 13088

PROJECT
INTERIOR RENOVATIONS
RAYMOUR & FLANIGAN SHOWROOM
1459 Niagara Falls Blvd
Amherst, NY 14228

REVISIONS / SUBMISSIONS

0	ISSUED FOR PERMIT	10.09.26

PROJECT # -
DATE: 10.09.26

SHEET TITLE
ACCESSIBILITY DETAILS

SHEET NUMBER
A700



KEY NOTES

EXISTING

- E1 (EX) EXPOSED CEILING STRUCTURE TO REMAIN
- E2 (EX) SUSPENDED CEILING TILE AND GRID SYSTEM TO REMAIN
- E3 (EX) GYP. BD. CEILING TO REMAIN
- E4 (EX) GYP. BD. SOFFIT TO REMAIN
- E5 (EX) EXTRUDED ALUMINUM AND GLASS VESTIBULE CEILING SYSTEM TO REMAIN
- E6 (EX) EIFS SYSTEM SOFFIT
- E7 LIMIT OF (EX) ROOF STRUCTURE ELEVATION CHANGE
- E8 (EX) FIRE DOOR SYSTEM TO REMAIN

DEMOLITION

- D1 REMOVE (EX) SUSPENDED CEILING SYSTEM ENTIRELY
- D2 REMOVE (EX) GYP. BD. SOFFIT ENTIRELY

NEW CONSTRUCTION

- N1a (EX) EXPOSED CEILING STRUCTURE TO BE PAINTED, COLOR "WHITE"
- N1b (EX) EXPOSED CEILING STRUCTURE TO BE PAINTED, COLOR "BLACK"
- N2 (N) 2X4 SUSPENDED CEILING TILE AND GRID SYSTEM
- N3 (N) GYP. BD. SOFFIT
- N4 (N) GALLERY ENTRY FEATURE SOFFIT

LEGEND

- (N) 2'x4' SUSPENDED CEILING TILE AND GRID SYSTEM
- (N) PAINTED GYP. BD. SOFFIT OR CEILING
- (EX) STRUCTURE ABOVE TO BE PAINTED BLACK
- (N) 8'-0" HIGH DISPLAY WALL
- (N) 10'-0" HIGH DISPLAY WALL
- (N) 12'-0" HIGH DISPLAY WALL
- (N) FULL HIGH DISPLAY WALL
- (N) 12" WIDE DISPLAY WALL COLUMN, RUN TO STRUCTURE ABOVE, PROVIDE DEFLECTION TRACK
- (N) GALLERY ENTRY, SEE ELEVATIONS

SECTION OR ELEVATION REFERENCE

KEY NOTE

12'-0" C.H. DESIGNATES CEILING HEIGHT

12'-0" S.H. DESIGNATES SOFFIT HEIGHT

SHEET NOTES

REVISION NOTES

REVISIONS THIS SHEET INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

1 A800a PARTIAL REFLECTED CEILING PLAN "A" (SOUTH) SCALE: 3/32"=1'-0"

SEAL

REGISTERED ARCHITECT STEVEN T. TOMASSETTI 018156 STATE OF NEW YORK

DESIGN PROFESSIONAL

AEON ARCHITECTURE
33 W. RIDLEY AVENUE, RIDLEY PARK, PA 19078
Phone (484) 243-0249 Fax (484) 243-0249

CLIENT

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PROJECT

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1459 Niagara Falls Blvd
Amherst, NY 14228

REVISIONS / SUBMISSIONS

0	ISSUED FOR PERMIT	10.09.26

PROJECT # -

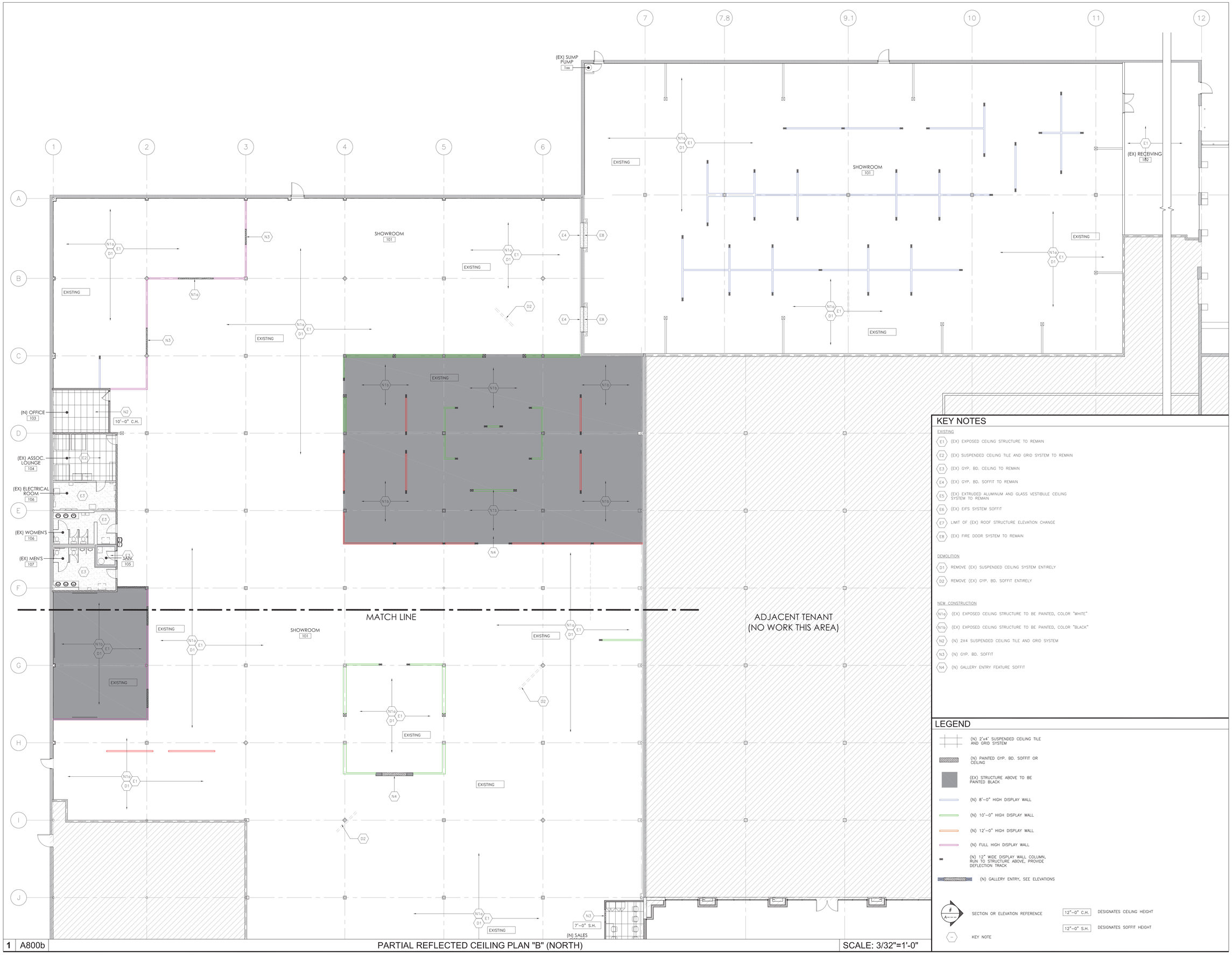
DATE: 10.09.26

SHEET TITLE

REFLECTED CEILING PLAN "A"

SHEET NUMBER

A800a



KEY NOTES

EXISTING

- E1 (EX) EXPOSED CEILING STRUCTURE TO REMAIN
- E2 (EX) SUSPENDED CEILING TILE AND GRID SYSTEM TO REMAIN
- E3 (EX) GYP. BD. CEILING TO REMAIN
- E4 (EX) GYP. BD. SOFFIT TO REMAIN
- E5 (EX) EXTRUDED ALUMINUM AND GLASS VESTIBULE CEILING SYSTEM TO REMAIN
- E6 (EX) EIFS SYSTEM SOFFIT
- E7 LIMIT OF (EX) ROOF STRUCTURE ELEVATION CHANGE
- E8 (EX) FIRE DOOR SYSTEM TO REMAIN

DEMOLITION

- D1 REMOVE (EX) SUSPENDED CEILING SYSTEM ENTIRELY
- D2 REMOVE (EX) GYP. BD. SOFFIT ENTIRELY

NEW CONSTRUCTION

- N1a (EX) EXPOSED CEILING STRUCTURE TO BE PAINTED, COLOR "WHITE"
- N1b (EX) EXPOSED CEILING STRUCTURE TO BE PAINTED, COLOR "BLACK"
- N2 (N) 2X4 SUSPENDED CEILING TILE AND GRID SYSTEM
- N3 (N) GYP. BD. SOFFIT
- N4 (N) GALLERY ENTRY FEATURE SOFFIT

LEGEND

- (N) 2'x4' SUSPENDED CEILING TILE AND GRID SYSTEM
- (N) PAINTED GYP. BD. SOFFIT OR CEILING
- (EX) STRUCTURE ABOVE TO BE PAINTED BLACK
- (N) 8'-0" HIGH DISPLAY WALL
- (N) 10'-0" HIGH DISPLAY WALL
- (N) 12'-0" HIGH DISPLAY WALL
- (N) FULL HIGH DISPLAY WALL
- (N) 12" WIDE DISPLAY WALL COLUMN, RUN TO STRUCTURE ABOVE, PROVIDE DEFLECTION TRACK
- (N) GALLERY ENTRY, SEE ELEVATIONS
- SECTION OR ELEVATION REFERENCE
- KEY NOTE
- 12'-0" C.H. DESIGNATES CEILING HEIGHT
- 12'-0" S.H. DESIGNATES SOFFIT HEIGHT

1 | A800b | PARTIAL REFLECTED CEILING PLAN "B" (NORTH) | SCALE: 3/32"=1'-0"

SEAL

REGISTERED ARCHITECT STEVEN T. TOMASSETTI 031518 STATE OF NEW YORK

DESIGN PROFESSIONAL

AEON ARCHITECTURE
33 W. RIDLEY AVENUE, RIDLEY PARK, PA 19078
Phone (484) 243-0249 Fax (484) 243-0349

CLIENT

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PROJECT

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1459 Niagara Falls Blvd
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REVISIONS / SUBMISSIONS

0	ISSUED FOR PERMIT	10.09.26

PROJECT #

DATE: 10.09.26

SHEET TITLE

REFLECTED CEILING PLAN "B"

SHEET NUMBER

A800b

MECHANICAL SYMBOLS

10x10 — NEW DUCT

(E) 10x10 — EXISTING DUCT TO REMAIN

(R) 10x10 — EXISTING DUCT TO BE REMOVED

(ER) 10x10 — EXISTING TO BE RELOCATED DUCT

(ERL) 10x10 — EXISTING RELOCATED DUCT

CONNECT NEW DUCT TO EXISTING DUCT

TERMINATION OF EXISTING DUCT

D — INCLINED RISER (R) / DROP (D) ARROW IN DIRECTION OF AIRFLOW

AIRFLOW — DUCT REDUCER SQUARE TO SQUARE TRANSITION (FLAT ON BOTTOM UNLESS OTHERWISE NOTED)

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/EXHAUST/TRANSFER 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/ EXHAUST GRILLE

SIDEWALL SUPPLY DIFFUSER

SIDEWALL RETURN/TRANSFER GRILLE

LINEAR DIFFUSER

(X) AIR DEVICE QUANTITY

(X) AD–X — (AD–X) AIR DEVICE / NUMBER

XXX — (XXX) CFM

XXxXX/XXØ — (XXxXX/XXØ) NECK SIZE

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

XXX / XX — [XXX] – EQUIPMENT TYPE [XX] – EQUIPMENT DESIGNATION (SEE MECHANICAL SCHEDULES FOR EQUIPMENT SPECIFICATIONS)

(#) — DRAWING KEYED NOTE

POINT OF NEW CONNECTION TO EXISTING

TERMINATION OF POINT OF DEMOLITION

BREAK LINE

CONTINUATION LINE

X — REVISION CLOUD W/DELTA

XX" — XX" – PIPE SIZE

PIPE TURNING UP

PIPE TURNING DOWN

TOP CONNECTION

BOTTOM CONNECTION

TEE, OUTLET DOWN

TEE, OUTLET UP

DIRECTION OF FLOW

0.01 — PIPING SLOPE

VOLUME DAMPER/ BALANCING DAMPER

MOD — (MOD) MOTOR OPERATED DAMPER

BDD — (BDD) BACKDRAFT DAMPER

OBD — (OBD) OPPOSED BLADE DAMPER

FD — (FD) FIRE DAMPER

FSD — (FSD) FIRE/SMOKE DAMPER

SD — (SD) SMOKE DAMPER

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

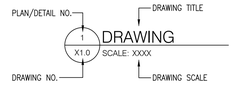
FINAL LOCATION BY OWNER. COORDINATE LOCATION W/ PARTITIONS AND BUILDING STRUCTURE, FINAL LOCATION TO NOT BE IN DIRECT PATH OF SUNLIGHT THROUGH WINDOWS OR SKYLIGHTS

SUPPLY AIR FLOW

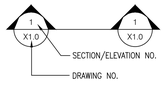
OUTDOOR/RETURN/EXHAUST/TRANSFER AIR FLOW

UC — DOOR UNDERCUT (SEE PLAN FOR SIZE)

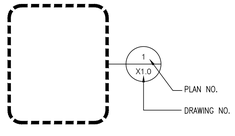
DRAWING TITLE



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 2025 MECHANICAL CODE OF NEW YORK STATE, 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 2025 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE, 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 ELECTRICAL CONTRACTOR FOR LOCATION OF WIRING AND ELECTRICAL REQUIREMENTS FOR EACH HVAC UNIT.
2. COORDINATE WITH GENERAL CONTRACTOR TO CONCEAL ALL PIPING AS REQUIRED.
3. 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.
4. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING 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 IN ACCORDANCE WITH THE CURRENT EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE, UNLESS MORE STRINGENT REQUIREMENTS ARE SPECIFIED IN THESE DRAWINGS.
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.

ABBREVIATIONS

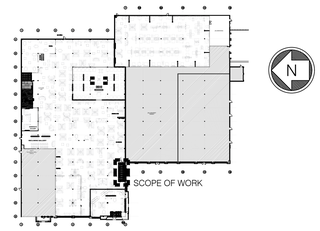
AC	AIR CONDITIONER
AD	AIR DEVICE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ARCH	ARCHITECT
AHU	AIR HANDLING UNIT
AMPS	AMPERES
AP	ACCESS PANEL
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BB	BASEBOARD HEAT
BDD	BACKDRAFT DAMPER
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
BOS	BOTTOM OF STEEL
BOD	BASIS 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

MECHANICAL DRAWING LIST

CURRENT ISSUE:
ISSUED FOR PERMIT

DWG NO.	DRAWING TITLE	0 (10-09-26) ISSUED FOR PERMIT
M1.0	MECHANICAL SYMBOLS & NOTES	●
M1.1	MECHANICAL ENERGY COMPLIANCE	●
M1.2	MECHANICAL ENERGY COMPLIANCE	●
M2.0	MECHANICAL PLAN	●
M3.0	MECHANICAL SCHEDULES & SPECIFICATIONS	●

SITE KEY PLAN



DESIGN CRITERIA

DESIGN DAY INFORMATION:

COOLING

OADB: 88°F
OAWB: 76°F
IADB: 75°F

HEATING:

OADB: -5°F
IADB: 68°F

LOCATION:

STATE: NEW YORK
COUNTY: ERIE
TOWNSHIP: AMHERST

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

FXB PARTNERSHIPS THROUGH ENGINEERING
5 Christy Drive, Suite 307
Chadds Ford, PA 19317
610.558.3464 office
www.fxbinc.com
Engineering Excellence Since 1968
NY CERTIFICATE OF AUTHORIZATION #024191
EXPIRES 07/31/2029

Seal: STATE OF NEW YORK · PETER J. BONNES · 077635 · LICENSED PROFESSIONAL ENGINEER

Peter J Bonnes 10/09/2026

PETER J. BONNES, P.E.
LICENSE #077635
EXPIRES 04/30/2029

Client:

RAYMOUR & FLANIGAN FURNITURE

P.O. Box 220, 7248 Morgan Rd.
Liverpool, NY 13088

Project Name:

Interior Renovations to the Raymour & Flanigan Furniture Showroom located at 1459 Niagara Falls Blvd., Amherst, NY 14228

Plan North — True North

Issue / Revisions:

#	Date	Description
0	10.09.26	Issued for Permit

Drawn By: RCK
Chkd By: PJB
Date: 10.09.2026
Scale: As Noted
Project Number: RFF 26111

Drawing Title: MECHANICAL SYMBOLS & NOTES

Drawing Number: M1.0

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Mechanical Compliance Certificate

Project Information

Energy Code: 2025 Energy Conservation Construction Code of New York State
Project Title: RFF 26111 Amherst, NY
Location: Buffalo, New York
Climate Zone: 5a
Project Type: Alteration

Construction Site: **Owner/Agent:** **Designer/Contractor:**

Mechanical Systems List

Quantity	Component	Description
HVAC Systems		
1	HP-1 (Single Zone):	Split System Heat Pump Heating Mode: Capacity = 22 kBtu/h, Proposed Efficiency = 9.50 HSPF2, Required Efficiency = 7.50 HSPF2 Cooling Mode: Capacity = 18 kBtu/h, Proposed Efficiency = 20.50 SEER2, Required Efficiency = 14.30 SEER2 Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: AHU-1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: AHU-1 Supply, Constant Volume, 459 CFM, 0.3 motor nameplate hp, 0.00 fan energy index , fan exception: Part of code listed equipment

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2025 Energy Conservation Construction Code of New York State requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Ethan Graeff - Mechanical Design Engineer — Ethan Graeff — 09/09/2026

Name - Title **Signature** **Date**

Inspection Checklist

Energy Code: 2025 Energy Conservation Construction Code of New York State

Requirements: 85% 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.

Plan Review

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C105.2 [PR2]†	Plans, specifications, and/or calculations provide all information in sufficient detail with which compliance can be determined for the mechanical and service water heating systems and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks. Hot water system sized per manufacturer's sizing guide.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Footing / Foundation Inspection

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.14.2, C403.14.3 [FC7]†	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature above 50F and outdoor temperature above 40F.	☐ Complies ☐ Does Not Comply ☐ 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)

Plumbing Rough-In Inspection

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL1]†	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐ Complies ☐ Does Not Comply ☐ 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)

Mechanical Rough-In Inspection

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.3 [ME1]†	HVAC equipment efficiency verified.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	*See the Mechanical Systems list for values*
C403.12.3, C403.12.3.1, C403.12.3.2 [ME13]†	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.12.3.1 and refrigeration condensor systems that comply with C403.12.3.2.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.14.1 [ME14]†	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.13.1, C403.13.2 [ME15]†	HVAC ducts and plenums insulated in accordance with C403.13.1 and constructed in accordance with C403.13.3, verification may need to occur during Foundation Inspection.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.13.3 [ME16]†	HVAC piping insulation insulated in accordance with Table C403.13.3. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.2.2 [ME1]†	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.4.1.3 [ME24]†	Where thermostatic control setpoints are adjustable by occupants or HVAC operators, the adjustments are independent for heating and cooling setpoint.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.4.1.5 [ME26]†	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.9 [ME3]†	Large diameter fans where installed shall be tested and labeled in accordance with AMCA 230 and meet efficacy requirements of Table C403.9.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.4.6 [ME85]†	Electric heating and cooling systems are provided with demand responsive controls as required in Section C403.4.6.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.4.7 [ME35]†	Doors or operable openings from conditioned space to outdoors > 40 sq ft contain automatic controls interlocked with the heating and cooling system.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Alterations.

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Peter J. Bonnes 10/09/2026

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RAYMOUR & FLANIGAN FURNITURE

P.O. Box 220, 7248 Morgan Rd.
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Project Name:

Interior Renovations
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Plan North — True North

Issue / Revisions:

#	Date	Description
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Drawn By:	RCK
Chk'd By:	PJB
Date:	10.09.2026
Scale:	As Noted
Project Number:	RFF 26111

Drawing Title:

MECHANICAL ENERGY COMPLIANCE

Drawing Number:

M1.1

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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.4.8.1 [ME36]¹	Dehumidification controls do not use mechanical cooling to reduce humidity < 60% or a dew point < 55F	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.4.8.2 [ME37]¹	Humidity controls do not use fossil fuel or electricity for a humidity > 30% in warmest zone.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.4.8.3 [ME38]¹	Zones served by systems with both humidification and dehumidification prevent simultaneous operation.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.5.5 [ME45]¹	Fault detection and diagnostics installed with air-cooled unitary DX units or VRF units having economizers.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.7.1 [ME56]¹	Demand control ventilation provided for spaces >250 ft2 and >15 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.7.2 [ME57]¹	Enclosed parking garage ventilation has separate ventilation systems for each section, can reduce airflow < 0.05 cfm/sq ft of floor area and >20% of design capacity.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.7.4 [ME59]¹	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.7.5 [ME60]¹	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria. Type I exhaust hoods contain integrated capture and ventilation with > 50% reduction in exhaust.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.7.6 [ME61]¹	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.7.8, C403.7.8.1 [ME63]¹	Classrooms, training rooms, conference and multipurpose rooms, lounges, enclosed offices, open office areas and corridors contain occupied standby ventilation controls.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.8.4 [ME67]¹	Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Motors in space-conditioning equipment that comply with Section C403.3.2 or Sections C403.8.1 through C403.8.3.

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.8.6 [ME68]¹	Each DX cooling system > 65 kBtu and chiller water-evaporative cooling system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.15 [ME69]¹	Dehumidification systems for plant growth and maintenance are tested in accordance with DOE 10 CFR 430, has on-site heat recovery > 75% of dehumidification energy or ha a solid or liquid desiccant.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.16 [ME70]¹	Service water pressure boost systems contain pressure sensors for pump control, no devices used to reduce pressure and booster pumps do not operate when there is no service water flow.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.17 [ME71]¹	Clean water pumps achieve a pump energy index (PEI) <= 1.0.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C408.2.2.1 [ME72]¹	Air outlets and zone terminal devices have means for air balancing.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Fans with fan motors of 1 hp (0.74 kW) or less.

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Rough-In Electrical Inspection

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.7 [EL3]¹	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.7.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C405.8 [EL4]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 Comply ☐ Not Observable ☐ Not Applicable	
C405.8.1 [EL19]¹	New traction elevators with a rise > 75 ft have a power conversion system complying with Section C405.8.1.1 through C405.8.1.3.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C405.11 [EL1]¹	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C405.10.2 [EL5]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 Comply ☐ Not Observable ☐ Not Applicable	
C405.12, C405.12.1 [EL6]¹	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and lounges and > 20% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Final Inspection

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C403.1.1 [FI12]¹	HVAC systems and equipment design loads calculated in accordance with ANSI/ASHRAE/ACCA Standard 183 or by an approved equivalent computational procedure	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.3.1 [FI13]¹	HVAC systems and equipment capacity does not exceed calculated loads.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.4.1 [FI14]¹	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.4.1.1 [FI15]¹	Heat pump controls prevent supplemental electric resistance, fuel gas or liquid fuel heating systems from coming on when not needed.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.4.1.2 [FI16]¹	Thermostatic controls have a 5 °F deadband.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.4.1.4 [FI17]¹	Temperature controls have setpoint overlap restrictions.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.4.2 [FI18]¹	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.4.2.1, C403.4.2.2 [FI19]¹	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.4.2.3 [FI20]¹	Systems include optimum start controls.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C405.15.1, C405.15.2 [FI25]¹	Buildings comply with the on-site and/or off-site renewable energy requirements of Section C405.15.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C408.1.1 [FI58]¹	Building operations and maintenance documents will be provided to the owner. Information will include, at minimum, operating schedules, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.1 [FI59]¹	Commissioning plan developed by registered design professional or approved agency.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C408.2.3.1 [FI60]¹	HVAC equipment, systems and system-to-system relationships have been tested to ensure proper operation.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.2.3.2 [FI74]¹	HVAC and service water heating control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.2.4 [FI61]¹	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.2.5 [FI75]¹	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.2.5.1 [FI62]¹	An air and/or hydronic system balancing report is provided for HVAC systems.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.2.5.2 [FI76]¹	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.3.2.2 [FI77]¹	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.3.2.2 [FI63]¹	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

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Plan North / True North

Issue / Revisions:

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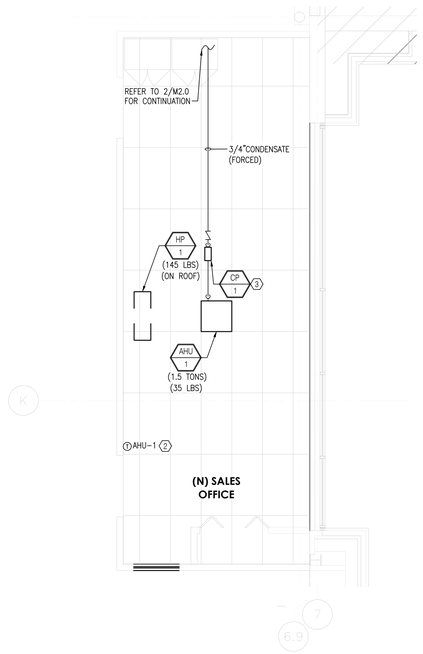
Drawing Title:

MECHANICAL ENERGY COMPLIANCE

Drawing Number:

M1.2

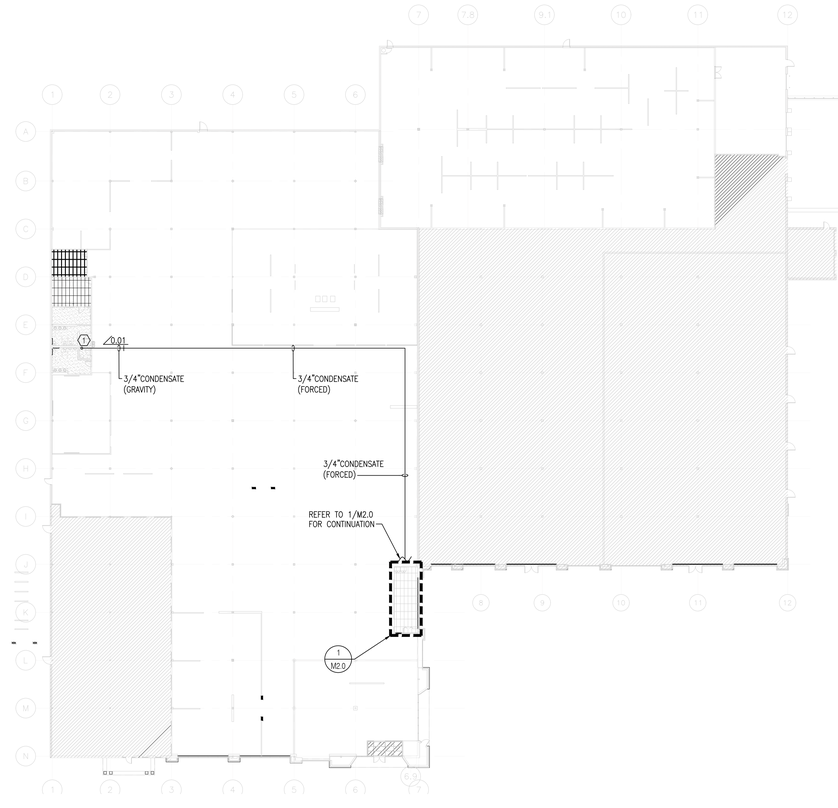
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KEYED NOTES

1. ROUTE NEW 3/4" CONDENSATE FROM AHU-1 TO EXISTING MOP SINK AND DISCHARGE WITH MINIMUM 1" AIR GAP.
2. MECHANICAL CONTRACTOR SHALL FURNISH, INSTALL, AND WIRE THERMOSTAT FOR AHU-1.
3. INTEGRAL CONDENSATE PUMP OF AHU-1 SHALL PUMP TO RESERVOIR OF STAND ALONE CONDENSATE PUMP, CP-1, LOCATED IN A DRIP PAN ABOVE THE SALES OFFICE CEILING. INTERLOCK OVERFLOW SWITCH OF CP-1 TO SHUT DOWN OPERATION OF AHU-1 WHEN ACTIVATED.

1 / M2.0 MECHANICAL OFFICE PLAN
SCALE: 1/4" = 1'-0"



2 / M2.0 MECHANICAL FLOOR PLAN
SCALE: 1/32" = 1'-0"

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Chk'd By:	PJB
Date:	10.09.2026
Scale:	As Noted
Project Number:	RFF 26111

Drawing Title:

MECHANICAL FLOOR PLAN

Drawing Number:

M2.0

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SPLIT SYSTEM SCHEDULE - HEAT PUMP

HP X / AHS X

OUTDOOR UNIT												INDOOR UNIT										
SYMBOL	MANUFACTURER	MODEL	NOMINAL RATING (TONS)	SEER/ IEER	REFRIGERANT	VOLTAGE	PHASE	FLA	MCA	MOCP	APPROXIMATE WEIGHT (LBS.)	SYMBOL	MANUFACTURER	MODEL	SUPPLY CFM	GROSS COOLING CAPACITY (MBH)	COP/ HSPF	HEATING CAPACITY (MBH)	VOLTAGE	PHASE	MOCP	APPROXIMATE WEIGHT (LBS.)
HP-1	LG	KSUXA181A	1.5	20.5	R-32	208	1	15.9	19.1	30	145	AHU-1	LG	KSUDA181A	459	18.0	9.5	22.5	SEE NOTE #2			35

NOTES:
1. CONTRACTOR SHALL FIELD VERIFY LENGTHS OF REFRIGERANT PIPE RUNS, SIZE ACCORDING TO MANUFACTURERS RECOMMENDATIONS. PROVIDE ACCESSORIES AS REQUIRED FOR LONG LINE SET APPLICATIONS.
2. INDOOR UNIT IS POWERED FROM THE OUTDOOR UNIT. THE MINIMUM CIRCUIT AMPS (MCA) & MAXIMUM OVERCURRENT PROTECTION (MOCP) LISTED UNDER THE OUTDOOR SECTION INCLUDES THE INDOOR UNIT ELECTRICAL LOAD.

FIELD INSTALLED OPTIONS:
- 7-DAY PROGRAMMABLE THERMOSTAT
- LOW AMBIENT WIND BAFFLE

CONDENSATE PUMP

CP #

SYMBOL	MANUFACTURER	MODEL	FLOW (GPH)	HEAD (FT. HD)	MOTOR (WATTS)	FLA	VOLTAGE	PHASE	APPROXIMATE WEIGHT (LBS.)
CP-1	LITTLE GIANT	VCMA-20ULS	48	10	93	1.5	115	1	6

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. COORDINATE ELECTRICAL REQUIREMENTS WITH E.C. PRIOR TO INSTALLATION.
3. PROVIDE LINE SET & HOUSING FOR CONDENSATE PIPING.
4. INTERLOCK OVERFLOW SWITCH WITH AHU-1

MECHANICAL SPECIFICATIONS

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. 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

   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.

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. SEISMICALLY BRACE UNIT AS REQUIRED BY CODE.
3. PROVIDE CLEARANCE FOR CONDENSERS IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS TO ENSURE ADEQUATE CONDENSER AIRFLOW TO UNIT AND SERVICEABILITY.

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 PROGRAMMABLE THERMOSTAT FOR EACH UNIT. LOCATE MASTER THERMOSTATS IN AREA DIRECTED BY OWNERS REPRESENTATIVE.
3. PROVIDE LOCAL CONTROLS AT CENTRAL AND TERMINAL EQUIPMENT CAPABLE OF COORDINATING AND CONTROLLING ALL VARIABLES IN EQUIPMENT.

D. INSULATION

1. ALL CONDENSATE PIPING SHALL BE FULLY INSULATED WITH ARMAFLEX INSULATION APPROPRIATE FOR THE OPERATING TEMPERATURE OF THE PIPING. INSULATE ALL VALVES AND CONTROL DEVICES AND PROVIDE EXTENSIONS FOR ALL OPERATING COMPONENTS TO ENABLE OBSTRUCTION FREE OPERATION.
2. 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.

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Peter J Bonnes
10/09/2026

PETER J. BONNES, P.E.
LICENSE #077635
EXPIRES 04/30/2029

Client:

RAYMOUR & Flanigan FURNITURE
P.O. Box 220, 7248 Morgan Rd.
Liverpool, NY 13088

Project Name:
Interior Renovations
to the
Raymour & Flanigan
Furniture Showroom
located at
1459 Niagara Falls Blvd.,
Amherst, NY 14228

Plan North | True North

Issue / Revisions:

#	Date	Description
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Drawn By: RCK
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MECHANICAL SCHEDULES & SPECIFICATIONS

Drawing Number:
M3.0

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CIRCUIT WIRING

RP-1	HOME RUN TO PANEL "RP" INDICATES PANEL NO. & "1" INDICATES CIRCUIT NUMBER
	BRANCH CIRCUIT WIRING CONSISTING OF THHN COPPER CONDUCTORS RUN IN CONCEALED RACEWAY. IN AREAS WITH NO CEILING RUN OVERHEAD CONDUCTORS IN EXPOSED EMT. EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED IN ALL CONDUIT/CABLE RUNS. NOTE: CONTRACTOR MAY RUN MC CABLE (WHERE APPROVED BY CODE AND BY OWNER) IN WALLS & ABOVE CEILINGS IN FINISHED AREAS ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING QUANTITY OF CONDUCTORS IN RACEWAY.
	BRANCH CIRCUIT WIRING CONSISTING OF THHN COPPER CONDUCTORS IN APPROPRIATE RACEWAY. RUN UNDERGROUND, IN FLOOR SLAB, OR UNDER FLOOR.
	LOW VOLTAGE OR CONTROL WIRING CONSISTING OF THHN COPPER CONDUCTORS RUN IN EMT CONDUIT.
	BRANCH CIRCUIT WIRING CONSISTING OF CONDUCTORS RUN IN FLEXIBLE METAL CONDUIT TO LIGHTING FIXTURE OR MOTORIZED EQUIPMENT. RUN IN "SEALTITE" FOR ALL PUMP CONNECTIONS. 6'-0" MAX. UNSUPPORTED LENGTH FOR LIGHTING FIXTURES AND 30" FOR OTHER EQUIPMENT. THIS SYMBOL COULD ALSO REPRESENT A FLEXIBLE CORD FINAL CONNECTION TO LIGHT FIXTURES.

WIRING DEVICES

(ALL WIRING DEVICES SHALL BE AS SPECIFIED OR APPROVED EQUAL, SHOP DRAWINGS ARE REQUIRED FOR ALL DEVICES; COLOR OF WIRING DEVICES AS PER ARCHITECT)

	SINGLE DUPLEX RECEPTACLE NEMA 5-20R (1); HUBBELL #HBL5361I (IVORY) IN TWO GANG BOX
	DUPLEX RECEPTACLE NEMA 5-20R; HUBBELL #HBL5362I (IVORY) IN SINGLE GANG BOX
	DOUBLE DUPLEX RECEPTACLE NEMA 5-20R (2); HUBBELL #HBL5362I (IVORY) IN TWO GANG BOX
	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE, NEMA 5-20R; HUBBELL GF5352IA (IVORY) IN SINGLE GANG BOX.
GFI WP	GFCI RECEPTACLE, NEMA 5-20R; HUBBELL #GF5352GYA (GRAY) , WITH CARLON #E9UVCRN WEATHERPROOF COVER PLATE. (UL LISTED FOR "WET LOCATIONS" WHILE IN USE.)
	FLUSH, SINGLE-GANG, FLOOR BOX (W/DUPLEX RECEPTACLE) - RECEPTACLE: HBL5362 FLOOR BOX: B243641; COVER: S3825; CARPET FLANGE: SB3083 (IF REQUIRED)
	FLUSH, 2-GANG, FLOOR BOX (W/DUPLEX RECEPTACLE AND TELE/DATA OUTLET) - REC: HBL5362 FLOOR BOX: B423341; COVER: S3825 (POWER) & S2625 (DATA); CARPET FLANGE: SB3084 (IF REQUIRED)
	FLUSH, 3-GANG, FLOOR BOX (W/2-DUPLEX RECEPTACLES AND TELE/DATA OUTLET) - REC: HBL5362 FLOOR BOX: B433361; COVER: S3825 (POWER) & S2625 (DATA); CARPET FLANGE: SB3085 (IF REQUIRED)
	FLUSH, 2-GANG, FLOOR BOX (FOR POWER AND TELE/DATA BASE FEEDS) - FLOOR BOX: B423341; COVER: S2425 (POWER) & S2625 (DATA); CARPET FLANGE: SB3084 (IF REQUIRED)
PT	FIRE RATED POKE-THRU, W/RECEPTACLE AND TELE/DATA OUTLETS, ONE-PIECE UNIT; HUBBELL #S1PT SERIES (GRAY); VERIFY EXACT REQUIREMENTS FOR POKE-THRU & SUBPLATE WITH ARCHITECT/OWNER.
FF PT	FIRE RATED POKE-THRU, FURNITURE FEED (3-SERVICE), ONE-PIECE UNIT; HUBBELL #S1PTFFGY (GRAY); VERIFY EXACT REQUIREMENTS FOR POKE-THRU & SUBPLATE WITH ARCHITECT/OWNER & FURNITURE VENDOR.
BFM	BASE FEED MODULE TO PRE-WIRED FURNITURE. PROVIDE J. BOX IN WALL FOR FLEXIBLE CONDUIT CONNECTION TO FURNITURE; VERIFY EXACT REQUIREMENTS WITH ARCHITECT/OWNER & FURNITURE VENDOR.
$	SINGLE POLE TOGGLE SWITCH; HUBBELL #1221, 20A-120/277V IN SINGLE GANG BOX
$3	THREE-WAY TOGGLE SWITCH; HUBBELL #1223, 20A-120/277V IN SINGLE GANG BOX
$4	FOUR-WAY TOGGLE SWITCH; HUBBELL #HBL1224, 20A-120/277V IN SINGLE GANG BOX
$M	SINGLE POLE MOTOR RATED TOGGLE SWITCH; HUBBELL #HBL7832D, 30A, IN SINGLE GANG BOX
$M2	TWO POLE MOTOR RATED SWITCH; #HBL1392D, 30A, W/ ENCLOSURE
$M3	THREE POLE MOTOR RATED SWITCH; HUBBELL #HBL1379D, 30A, W/ ENCLOSURE
$M WP	SINGLE POLE MOTOR RATED TOGGLE SWITCH; HUBBELL #HBL7832D, 30A IN SINGLE GANG WEATHERPROOF BOX WITH WEATHERPROOF COVER
$PL	SINGLE POLE PILOT LIGHT TOGGLE SWITCH; HUBBELL #HBL122IILCN, 20A-120/277V IN SINGLE GANG BOX
$D	SINGLE POLE DIMMER SWITCH IN SINGLE GANG BOX; INCANDESCENT- LUTRON #NTF-600-IV (600W, 120V), #NTF-1000-IV (1000W, 120V) #NTF-1500-IV (1500W, 120V), #NTF-2000-IV (1950W, 120V) FLUORESCENT - LUTRON #NTF-10-IV (1920W, 120V), #NTF-10-277-IV (2200W, 277V) ELECTRONIC LOW VOLTAGE - LUTRON #NTELV-300-IV (300W, 120V), #NTELV-600-IV (600W, 120V) MAGNETIC LOW VOLTAGE - LUTRON #NTLV-600-IV (450W, 120V), #NTLV-1000-IV (800W, 120V) FOLLOW MANUFACTURERS RECOMMENDATIONS FOR GANGING AND DERATING
$D3	THREE-WAY DIMMER SWITCH IN SINGLE GANG BOX; INCANDESCENT- LUTRON #NT-603P-IV (600W, 120V), #NT-1003P-IV (1000W, 120V) #NT-1503P-IV (1500W, 120V) FLUORESCENT - LUTRON #NTF-103P-IV (1920W, 120V), #NTF-103P-277-IV (2200W, 277V) FOLLOW MANUFACTURERS RECOMMENDATIONS FOR GANGING AND DERATING
$OFF	OVERRIDE "OFF" SWITCH; HUBBELL #1221, 20A-120/277V IN SINGLE GANG BOX PERMANENTLY LABEL "OCCUPANCY SENSOR OVERRIDE SWITCH"
$T	DIGITAL ADJUSTABLE TIMER WALL SWITCH; HUBBELL #DT2000, IN SINGLE GANG BOX; (960W MAX AT 120V; 1200W MAX AT 277V)
MS	MOTION SENSOR SWITCH; WALL-MOUNTED; HUBBELL #AD2000I1 (800W INCAND; 1000W FLUOR, 120V; 1800W FLUOR, 277V); PASSIVE INFRARED & ULTRASONIC, 1000 SQ FT COVERAGE
MS	MOTION SENSOR SWITCH; CEILING-MOUNTED; HUBBELL #ATD2000C - PASSIVE INFRARED & ULTRASONIC, 2000 SQ FT COVERAGE E.C. TO ORIENT SENSOR IN FIELD (MAX CEILING HEIGHT 12')
CU	CONTROL UNIT (FOR CEILING MOUNTED MOTION SENSOR); 120/277V; HUBBELL #CU300HD (HEAVY DUTY) DEDUCT ALTERNATE AVAILABLE FOR CU300A (AUTOMATIC OPERATION, LIGHT DUTY)
AR	RELAY UNIT (FOR CEILING MOUNTED MOTION SENSOR); HUBBELL #AAR; (1800W INCAND; 2400W FLUOR, 120V; 5540W FLUOR, 277V)

POWER DISTRIBUTION

	VARIABLE FREQUENCY DRIVE
	FUSED DISCONNECT SWITCH HEAVY DUTY TYPE. SEE DRAWINGS FOR SIZE, VOLTAGE AND FUSE SIZE. PROVIDE DUAL ELEMENT TIME DELAY TYPE RK5 FUSES
	NON FUSED DISCONNECT SWITCH HEAVY DUTY TYPE. SEE DRAWINGS FOR SIZE AND VOLTAGE
	COMBINATION STARTER AND C/B DISCONNECT HEAVY DUTY TYPE. SEE DRAWINGS FOR SIZES, HP AND VOLTAGE. FURNISHED AND INSTALLED BY E.C. UNLESS NOTED.
	PANEL BOARD SQUARE "D" # NQ FOR 208/120 VOLT 3ø FOR BRANCH CIRCUIT PANEL BOARDS # NF FOR 480/277 VOLT 3ø FOR BRANCH CIRCUIT PANEL BOARDS
J	JUNCTION BOX
J	JUNCTION BOX WITH HARD WIRE CONNECTION; VERIFY ALL EQUIPMENT/DEVICE CONNECTIONS & REQUIREMENTS
T1	DRY-TYPE TRANSFORMER, 480-208/120V, 3ø, OR AS NOTED ON DRAWINGS
	TRANSFER SWITCH
	POWER POLE

HVAC EQUIPMENT

M	MOTOR OR MOTORIZED EQUIPMENT - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
WH	WATER HEATER - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
AC	A/C UNIT - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
CU	CONDENSER - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
AH	AIR HANDLER - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
HP	HEAT PUMP - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
H	HEATING ELEMENT - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
	ELECTRIC BASEBOARD HEAT - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
T	THERMOSTAT - PROVIDE BACKBOX AND 3/4" EMT TO ABOVE ACCESSIBLE CEILING
NOTE:	VERIFY MCA, FLA, MOCP, VOLTAGE & PHASE WITH VENDOR SHOP DRAWINGS PRIOR TO INSTALLATION OF ELECTRICAL FEEDER TO EQUIPMENT AND PRIOR TO MAKING FINAL CONNECTIONS. VERIFY EXACT EQUIPMENT LOCATIONS WITH M.C. PRIOR TO ROUGH-INS.

COMMUNICATIONS

	VOICE & DATA COMMUNICATION OUTLET CONSISTING OF A 4" SQ. X 2 1/8" DEEP BOX WITH RAISED DEVICE COVER MOUNTED FLUSH IN WALL. RUN A 1" EMT CONDUIT FROM BOX TO ABOVE ACCESSIBLE CEILING. WIRING AND DEVICE JACK BY T/C CONTRACTOR.
	VOICE ONLY COMMUNICATION OUTLET CONSISTING OF A 4" SQ. X 2 1/8" DEEP BOX WITH RAISED DEVICE COVER MOUNTED FLUSH IN WALL. RUN A 1" EMT CONDUIT FROM BOX TO ABOVE ACCESSIBLE CEILING. WIRING AND DEVICE JACK BY T/C CONTRACTOR.
	DATA COMMUNICATION OUTLET CONSISTING OF A 4" SQ. X 2 1/8" DEEP BOX WITH RAISED DEVICE COVER MOUNTED FLUSH IN WALL. RUN A 1" EMT CONDUIT FROM BOX TO ABOVE ACCESSIBLE CEILING. WIRING AND DEVICE JACK BY T/C CONTRACTOR.
TV	CABLE TV OUTLET COMMUNICATION OUTLET CONSISTING OF A 4" SQ. X 2 1/8" DEEP BOX WITH RAISED DEVICE COVER MOUNTED FLUSH IN WALL. RUN A 1" EMT CONDUIT FROM BOX TO ABOVE ACCESSIBLE CEILING. WIRING AND DEVICE JACK BY T/C CONTRACTOR.

FIRE ALARM SYSTEM

F	FIRE ALARM SYSTEM MANUAL PULL STATION DOUBLE ACTION
F	FIRE ALARM SYSTEM HORN/STROBE AUDIO/VISUAL INDICATING APPLIANCE DEVICE, SELECTABLE OUTPUT, FLUSH MOUNTED IN WALLS
F	FIRE ALARM SYSTEM STROBE VISUAL INDICATING APPLIANCE DEVICE, SELECTABLE OUTPUT, FLUSH MOUNTED IN WALLS
	ADDRESSABLE FIRE ALARM SYSTEM SMOKE DETECTOR
	ADDRESSABLE HEAT DETECTOR
FACP	FIRE ALARM CONTROL PANEL.
FAAP	FIRE ALARM ANNUNCIATOR PANEL (LOCATION SHOWN ON DRAWINGS MUST BE APPROVED BY AUTHORITY HAVING JURISDICTION BEFORE INSTALLATION)
WF	FIRE ALARM SYSTEM SPRINKLER WATER FLOW SWITCH (PROVIDE WIRING AND ADDRESSABLE CONTACT MODULE ONLY.) DEVICE BY OTHERS. (VERIFY QUANTITY OF FLOW SWITCHES)
TS	FIRE ALARM SYSTEM SPRINKLER VALVE TAMPER SWITCH (PROVIDE WIRING & ADDRESSABLE CONTACT MODULE ONLY) DEVICE BY OTHERS. (VERIFY QUANTITY OF TAMPER SWITCHES)
RTS	FIRE ALARM ADDRESSABLE DUCT DETECTOR WITH REMOTE INDICATING/TESTING DEVICE. FURNISHED AND INSTALLED BY E.C.

NOTE: THE FA SYSTEM INSTALLER IS RESPONSIBLE TO PROVIDE A COMPLETE SET OF SHOP DRAWINGS, INCLUDING MANUFACTURER SPECIFIC VOLTAGE DROP & BATTERY CALCULATIONS, SEQUENCE OF OPERATIONS MATRIX & DEVICE SPECIFICATION SHEETS TO THIS ENGINEER FOR APPROVAL. DRAWINGS SUBMITTED FOR REVIEW & APPROVAL SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.

ABBREVIATIONS

SYMBOL	DESCRIPTION
A, AMP	AMPERES
AA	AMBIENT AIR
AC	ALTERNATING CURRENT
ACR	ABOVE COUNTER RECEPTACLES
AF	AMPERE FRAME (CIRCUIT BREAKER)
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AFU	AMPERE FUSE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ARCH	ARCHITECT
AT	AMPERE TRIP (CIRCUIT BREAKER)
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
A/V	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BKR	BREAKER
BLDG	BUILDING
BYP, BP	BYPASS
C	CONDUIT - RACEWAY
CATV, TV	CABLE TELEVISION
C/B, CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
COAX	COAXIAL CABLE
C/L	CENTERLINE
COL	COLUMN
COMM	COMMUNICATIONS
CPT	CONTROL POWER TRANSFORMER
CPU	CENTRAL PROCESSING UNIT
CR	CARD READER
CS	CONTROL SWITCH
CU	COPPER
CUH	CABINET UNIT HEATER
CT	CURRENT TRANSFORMER
D	DEDICATED
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DEMO	DEMOLITION
DIA	DIAMETER
DIST	DISTRIBUTION
DWG	DRAWING
DN	DOWN
(E)	EXISTING TO REMAIN
EC, E.C.	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ELEV	ELEVATOR
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE DEVICE
EPO	EMERGENCY POWER OFF
EQ	EQUAL
EQUIP	EQUIPMENT
ERMS	ENERGY REDUCTION MAINTENANCE SWITCH
EWC	ELECTRIC WATER COOLER
F	FUSE
FA	FIRE ALARM
FA	FORCED AIR
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FCC	FIRE COMMAND CENTER
FCU	FAN COIL UNIT
FDR	FEEDER
FLA	FULL LOAD AMPERES
FPB	FAN POWERED BOX
F/S, FSS	FUSED SAFETY SWITCH
FT	FEET
FU.	FUSES
FUT	FUTURE
FVR	FULL VOLTAGE REVERSIBLE
FVNR	FULL VOLTAGE NON-REVERSIBLE
G	GROUND OR GROUNDING
GND, GRD	GROUND OR GROUNDING
GA	GAUGE
GEN, GENSET	GENERATOR
GF	GROUND FAULT
GFCI, GFI	GROUND FAULT CIRCUIT INTERRUPTER
GPS	GENERATOR PARALLELING SWITCHGEAR
GRC, GRS	GALVANIZED RIGID STEEL CONDUIT
HH	HAND HOLE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC SWITCH
HP	HORSEPOWER
HZ	HERTZ
I/INST	INSTANTANEOUS
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
JB, JBOX	JUNCTION BOX
K	KEY LOCK (KEY INTERLOCK SCHEME)
kA	KILOAMPERES
kCMIL	THOUSAND CIRCULAR MILS
kV	KILOVOLTS
kVA	KILOVOLT AMPERES
kVAR	KVA REACTIVE
kW	KILOWATTS
kWH	KILOWATT HOUR
L	LOCKING TYPE/LOAD
LA	LIGHTNING SURGE ARRESTOR

SYMBOL	DESCRIPTION
LAN	LOCAL AREA NETWORK
LP	LIGHTING PANEL
LSI	LONG TIME. SHORT TIME. INSTANTANEOUS.
LSIG	LONG TIME. SHORT TIME. INSTANTANEOUS. GROUND FAULT.
LT	LONG TIME
LTG	LIGHTING
M	METER
MC, M.C.	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MCP	MOTOR CIRCUIT PROTECTOR
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MFR	MANUFACTURER
MH	MANHOLE
MI	MINERAL INSULATED
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
N	NEUTRAL/NORMAL
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NEC	NATIONAL ELECTRICAL CODE
N.I.C	NOT IN CONTRACT
NFSS	NON-FUSED SAFETY SWITCH
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OS	OCCUPANCY SENSOR
P	POLE
PB	PUSHBUTTON/PULLBOX
PC	PHOTOCELL
PDU	POWER DISTRIBUTION UNIT
PF	POWER FACTOR
PH, ø	PHASE
PMS	POWER MONITORING SYSTEM
PNL	PANEL OR PANELBOARD
PVC	POLYVINYL CHLORIDE
PWR	POWER
PRI	PRIMARY
PS	POWER SUPPLY
PT	POTENTIAL TRANSFORMER
QTY	QUANTITY
(R)	EXISTING TO BE REMOVED
REC, RECEPT	RECEPTACLE
REQ, REQD	REQUIRED
RM	ROOM
RTU	ROOF TOP UNIT
RUPS	ROTARY UPS
SCA	SHORT CIRCUIT AMPERES
SCCR	SHORT CIRCUIT CURRENT RATING
SEC	SECONDARY
SP	SPARE
SPD	SURGE PROTECTIVE DEVICE
SPEC	SPECIFICATION
SPKR	SPEAKER
ST	SHUNT TRIP
STD	STANDARD
STP	SHIELDED TWISTED PAIR
STS	STATIC TRANSFER SWITCH
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYM	SYMMETRICAL
SYS	SYSTEM
TB	TERMINAL BLOCK
T/C, T/D	TELE/COMM, TELE/DATA
TEL	TELEPHONE
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UC	UNDER COUNTER
UG	UNDERGROUND
UH, EUH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
UOC	UNLESS OTHERWISE CONTRACTED
UON, UNO	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLT(S)
VAV	VARIABLE AIR VOLUME BOX
VFD	VARIABLE FREQUENCY DRIVE
VM	VOLTMETER
VIF	VERIFY IN FIELD
VMS	VOLTMETER SWITCH
W	WIRE/WATT
W/	WITH
WM	WATTMETER
WP	WEATHERPROOF
WG	WITH WIREGUARD
WT	WATERTIGHT
TRANSF	TRANSFORMER
XFMR	TRANSFORMER
△	DELTA
	GROUNDED WYE

ELECTRICAL GENERAL INSTALLATION NOTES

1. VERIFY EXACT INSTALLATION SCOPE OF WORK, INCLUDING SCHEDULING/SEQUENCING, WITH R&F CM PRIOR TO BID & WORK EXECUTION.
2. ALL BRANCH CIRCUIT WIRING SHALL BE RUN IN EMT CONDUIT, CONCEALED IN WALLS & CEILINGS IN FINISHED AREAS, AND EXPOSED IN UNFINISHED AREAS. MC CABLE MAY BE RUN CONCEALED ABOVE CEILINGS OR IN WALLS WHERE NOT SUBJECT TO PHYSICAL DAMAGE AND ONLY WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION. TYPE "AC" OR "NM" CABLE SHALL NOT BE USED. AN INSULATED EQUIPMENT GROUNDING CONDUCTOR MUST BE RUN IN ALL BRANCH CIRCUITS.
3. ALL PANEL BOARD FEEDERS AND THREE PHASE EQUIPMENT FEEDERS IN EXCESS OF #12 AWG SHALL BE RUN IN EMT, IMC, RGS, OR PVC, & IN ACCORDANCE WITH THE NEC AND THE PROJECT SPECIFICATIONS. NM CABLE SHALL NOT BE USED.
4. ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, PARALLEL & PERPENDICULAR TO BUILDING STRUCTURE.
5. MINIMUM CONDUIT SIZE SHALL BE 3/4", UNLESS NOTED OTHERWISE. MINIMUM WIRE SIZE SHALL BE #12 AWG TYPE THHN/THWN FOR POWER AND #14 THHN/THWN FOR CONTROL. ALL WIRING TO BE COPPER.
6. REFER TO MECHANICAL & PLUMBING DRAWINGS FOR EXACT LOCATION OF HVAC & PLUMBING EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. E.C. SHALL NOT ROUGH IN FOR CONNECTIONS TO EQUIPMENT WITHOUT VERIFYING LOCATIONS ON MECHANICAL & PLUMBING DRAWINGS, AND WITHOUT VERIFYING FINAL LOCATIONS WITH MECHANICAL & PLUMBING CONTRACTOR.
7. THE E.C. IS RESPONSIBLE FOR VERIFYING VOLTAGE, PHASE, MCA, AND MOCP REQUIRED FOR ALL HVAC EQUIPMENT PRIOR TO PURCHASING AND INSTALLING CONDUCTORS, BREAKERS, DISCONNECTS AND CONDUIT. VERIFY RATINGS WITH MECHANICAL SUBMITTALS, NAMEPLATES AND DIRECTLY WITH MECHANICAL CONTRACTOR.
8. ALL RACEWAYS RUNNING THROUGH BUILDING EXPANSION JOINTS SHALL BE EQUIPPED WITH EXPANSION FITTINGS.
9. THE E.C. SHALL REVIEW ALL TRADES' CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR ELECTRICAL EQUIPMENT. COORDINATE EXACT MOUNTING LOCATIONS WITH THE ARCHITECT, OWNER, GENERAL CONTRACTOR OR CONSTRUCTION MANAGER.
10. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR MOUNTING HEIGHTS AND EXACT LOCATIONS OF ALL DEVICES. IF THERE IS A CONFLICT BETWEEN ARCHITECTURAL DRAWINGS AND ELECTRICAL DRAWINGS (EXAMPLE: LIGHT FIXTURE LOCATION, SWITCH LOCATION OR HEIGHT OF A DEVICE), THE E.C. SHALL CONTACT THIS ENGINEER FOR DIRECTION PRIOR TO ROUGH-IN.
11. ALL WORK SHALL BE PERFORMED STRICT ACCORDANCE WITH THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE (THE "UNIFORM CODE") ADOPTION AND AMENDMENTS TO THE 2023 NATIONAL ELECTRICAL CODE (NFPA 70), 2025 FCNYS (IFC 2024), 2025 BCNYS (IBC 2024), 2025 ECCCNYS (IECC 2024/NYS ASHRAE 90.1-2025), THE OTHER LATEST ADOPTED NY STATE CODES, AS WELL AS ALL LOCAL CODES AND AHJ REQUIREMENTS.
12. ALL ELECTRICAL EQUIPMENT, INCLUDING, BUT NOT LIMITED TO CONDUIT, WIRE, BOXES, AND FITTINGS, SHALL BE NEW AND FREE OF DEFECTS, SHALL BEAR THE THE UL LABEL, AND SHALL MEET NEMA AND ANSI STANDARDS.
13. ALL WORK AND MATERIALS SHALL BE GUARANTEED FREE FROM DEFECTS FOR A MINIMUM PERIOD OF ONE YEAR UNLESS NOTED OTHERWISE. THE WARRANTY PERIOD SHALL BEGIN AT THE DATE OF BENEFICIAL OCCUPANCY.
14. THE E.C. IS RESPONSIBLE FOR FILING AND PAYING ALL FEES AND OBTAINING NECESSARY PERMITS, CERTIFICATES OF INSPECTION AND SHALL DELIVER ALL CERTIFICATES OF INSPECTION TO R&F CM & GC, INCLUDING COPIES WITH MAINTENANCE MANUALS.
15. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY POWER & LIGHTING TO THE SPACE AS NECESSARY DURING THE ENTIRE PERIOD OF CONSTRUCTION. COORDINATE EXACT REQUIREMENTS WITH CONSTRUCTION MANAGER OR GENERAL CONTRACTOR.
16. THE COLORS OF ALL RECEPTACLES, SWITCHES, AND DEVICE PLATES, AS WELL AS VISIBLE/EXPOSED CONDUITS, RACEWAYS, CORD DROPS, ETC., SHALL BE AS SELECTED BY R&F CM; VERIFY ALL COLOR REQUIREMENTS PRIOR TO PURCHASE & INSTALL.
17. E.C SHALL PROVIDE BACK BOX & 1/2" EMT TO NEAREST ACCESSIBLE CEILING FOR ALL NEW/EXISTING/RELOCATED THERMOSTATS. COORDINATE DIRECTLY WITH MC, R&F CM & GC; SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF NEW.
18. E.C SHALL PROVIDE BACK BOX & 1" EMT TO NEAREST ACCESSIBLE CEILING FOR ALL NEW/EXISTING/RELOCATED TELE/DATA/COMM OUTLETS; COORDINATE DIRECTLY WITH TC CONTRACTOR, R&F CM & GC.
19. FINAL LOCATIONS OF NEW & EXISTING ELECTRICAL EQUIPMENT MUST BE COORDINATED WITH OTHER TRADES & CONTRACTORS TO INSURE THAT NO NEW OR EXISTING PIPING, DUCTWORK, LEAK PROTECTION APPARATUS OR ANY OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION IS RUN DIRECTLY ABOVE PANELS, SWITCHBOARDS, MCC'S, SWITCHGEAR, ETC. (SEE NEC ARTICLE 110).
20. ALL FINAL CONNECTIONS TO VIBRATING OR MOTORIZED EQUIPMENT SHALL BE MADE WITH FLEXIBLE METAL CONDUIT SUITABLE FOR THE ENVIRONMENT IN WHICH IT IS TO BE LOCATED (FMC OR LFMC).
21. ALL BRANCH CIRCUITS SHALL CONTAIN DEDICATED NEUTRAL CONDUCTORS. DO NOT SHARE NEUTRAL CONDUCTORS.
22. ALL CONTRACTORS ARE RESPONSIBLE FOR CREATING AND TURNING OVER COMPLETE RED LINE/AS-BUILT DRAWINGS TO INDICATE FINAL CONDITIONS OF THEIR CONSTRUCTION; FOR E.C., THIS SHALL INCLUDE EXACT ROUTING OF NEW & EXISTING CONDUIT RUNS, UPDATED PANEL SCHEDULES, LIGHTING CONTROL TYPES & LOCATIONS, ETC.; E.C. SHALL SUBMIT BOTH HARD COPIES AND DIGITALLY SCANNED COPIES (PDF FORMAT) OF "AS-BUILT" DRAWINGS UPON ACCEPTANCE OF COMPLETE CONSTRUCTION WITH AHJ INSPECTION.
23. ELECTRICAL CONTRACTOR MUST SUBMIT A METHOD OF PROCEDURE "MOP" FOR ANY/ALL POWER TRANSITIONS AND SHUTDOWNS. MOPS WILL BE REVIEWED AND APPROVED BY ENGINEER, R&F CM, & GC. REFER TO MOP REQUIREMENTS ON THIS DRAWING.
24. ALL ELECTRICAL EQUIPMENT. INCLUDING BUT NOT LIMITED TO DEVICES, SYSTEMS, APPLIANCES, CONDUITS, WIRES, BOXES, CONTROLS, LIGHT FIXTURES, ETC. SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY TO FURNISH AND INSTALL, ACCORDING TO R&F STANDARDS OF BID REQUIREMENTS.
25. ALL RECEPTACLES AND DEVICES SHALL BE FLUSH MOUNTED IN NEW BLOCK OR STUD WALLS. FOR EXISTING BLOCK WALLS, CONTRACTOR SHALL CONSULT WITH R&F CM & GC TO PROVIDE SURFACE MOUNTED DEVICES AND RUN EITHER WIRE MOLD OR SURFACE MOUNTED CONDUIT AS NECESSARY; COLOR OF WIRE MOLD SHALL BE SELECTED BY ARCHITECT/R&F CM.
26. HVAC SYSTEM MAY INCLUDE THE USE OF RETURN AIR PLENUMS. CONTRACTOR SHALL VERIFY WITH MC TO ENSURE THAT MATERIALS AND METHODS ARE CONSISTENT WITH PLENUM CEILING REQUIREMENTS WHERE NECESSARY.
27. ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS OR FLOORS SHALL BE FIRE-SEALED TO MAINTAIN THE FIRE RATING OF THE ASSOCIATED WALL OR FLOOR IN ACCORDANCE WITH IIBC SECTION 713.
28. FIELD APPLY ARC FLASH WARNING LABELS FOR ALL PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, AND METER SOCKETS, AND INDUSTRIAL CONTROL PANELS PER NEC 110.16.
29. EACH DISCONNECTING MEANS SHALL BE MARKED TO INDICATE ITS PURPOSE PER NEC 110.22.
30. EXISTING CONDITION INFORMATION MUST BE FIELD VERIFIED. THE E.C. 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 & PRIOR TO CONSTRUCTION.

ELECTRICAL GENERAL DEMOLITION NOTES

1. VERIFY EXACT DEMOLITION SCOPE OF WORK, INCLUDING SCHEDULING/SEQUENCING, WITH R&F CM PRIOR TO BID & WORK EXECUTION.
2. UON, THE CONTRACTOR SHALL COMPLETELY DEMOLISH ALL ELECTRICAL DEVICES WITHIN DEMOLITION AREA SCOPE OF WORK, UNLESS INDICATED OTHERWISE [SEE 'ED-x' SERIES PLAN(S)]. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO WIRING DEVICES, OUTLET BOXES, PULL BOXES, LIGHTING FIXTURES & SWITCHES, WIRING AND CONDUIT, FIRE ALARM DEVICES, SOUND SYSTEM DEVICES, CLOCKS, TELE/DATA OUTLETS, ETC.
3. THE CONTRACTOR SHALL DISCONNECT, REMOVE AND MAKE SAFE ALL ELECTRICAL WIRING FOR EQUIPMENT TO BE REMOVED WITHIN DEMOLITION SPACE BACK TO THE POINT OF CONNECTION.
4. CONTRACTOR SHALL VERIFY ALL EXISTING SOURCES OF POWER TO EQUIPMENT PRIOR TO COMMENCEMENT OF ANY DEMOLITION ACTIVITIES, & IN ADVANCE OF FINAL REMOVAL.
5. THE CONTRACTOR SHALL COORDINATE ALL SHUTDOWN PROCEDURES WITH THE R&F CM PRIOR TO DISCONNECTING ANY CIRCUITS (SEE "M.O.P." REQUIREMENTS, THIS SHEET).
6. ALL ELECTRICAL EQUIPMENT THAT IS TO BE REMOVED SHALL BE TURNED OVER TO OWNER OR DISPOSED OF AT CONTRACTOR'S EXPENSE AS DIRECTED BY R&F CM.
7. EXTEND AND/OR REWORK ALL EXISTING WIRING & CONDUIT AS NECESSARY TO MAINTAIN CIRCUIT CONTINUITY TO/FROM ANY EXISTING ELECTRICAL EQUIPMENT THAT SHALL REMAIN.
8. REFER TO MECHANICAL/PLUMBING DRAWINGS & SPECIFICATIONS FOR THE DEMOLITION SCOPE OF WORK THAT WILL AFFECT DIVISION 26. THE CONTRACTOR SHALL REMOVE ALL DISCONNECTS, WIRING, CONDUIT, & CONNECTIONS TO HVAC & PLUMBING EQUIPMENT THAT IS BEING REMOVED OR ABANDONED. REMOVE ALL WIRING & CONDUIT BACK TO SOURCE.
9. REFER TO ARCHITECTURAL DRAWINGS & SPECIFICATIONS FOR THE DEMOLITION SCOPE OF WORK THAT WILL AFFECT DIVISION 26. THE CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT, WIRING & CONDUIT IN CEILINGS, PARTITIONS, OR FLOORS THAT ARE TO BE REMOVED.

METHOD OF PROCEDURE ("M.O.P.")

WHERE CALLED FOR THROUGHOUT THE CONSTRUCTION DOCUMENTS, OR AS REQUESTED THROUGH THE CONSTRUCTION PROCESS, THE CONTRACTOR SHALL SUBMIT A M.O.P. FOR ANY ACTIVITY DEEMED BY THE R&F CM TO POTENTIALLY IMPACT FACILITY OPERATIONS. CONTRACTOR TO RELEASE M.O.P. TO THE R&F CM FOR REVIEW AND COMMENT A MINIMUM OF TWO WEEKS PRIOR TO THE SCHEDULED ACTIVITY. THE M.O.P. SHALL INCLUDE ITEMS SUCH AS, BUT NOT LIMITED TO:

1. SHORT DESCRIPTION OF ACTIVITY
2. PROPOSED SCHEDULE/ CALENDAR DAY(S) OF ACTIVITY
3. ESTIMATED START AND END TIME
4. IDENTIFICATION AND REQUIRED ACTION FOR CRITICAL PATH MILESTONES, INCLUDING OWNER DEPENDENCIES
5. LENGTH OF ANY PLANNED DOWNTIME OF LIVE POWER SYSTEMS
6. STEP BY STEP PROCEDURE WITH ITEMIZED TIME ESTIMATE FOR EACH MAJOR STEP
7. EMERGENCY BACK OUT PROCEDURE
8. SAFETY EQUIPMENT AND/OR ANY OTHER SPECIAL SAFETY MEASURES TO BE TAKEN
9. IDENTIFY LEAD PERSONNEL INVOLVED, INCLUDING 24 HR. CONTACT INFORMATION
10. IDENTIFY REQUIRED TRADES TO PARTICIPATE AND TASKS TO BE PERFORMED

BIDDING INSTRUCTIONS

BASE BID:

1. CONTRACTOR SHALL PROVIDE ALL MATERIAL INDICATED ON THESE DRAWINGS INCLUDING ANY/ALL ACCESSORIES & APPURTENANCES AS REQUIRED FOR A COMPLETE AND WORKING SYSTEM.
2. VISIT SITE TO VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMISSION OF BIDS.
3. RFI'S SHALL BE DIRECTED THRU R&F CM TO BOTH THE ARCHITECT AND ENGINEER; SEE CONTACT INFORMATION ON ARCHITECT'S COVER SHEET FOR FURTHER INFORMATION.
4. THE CONTRACTORS BID PRICE SHALL INCLUDING LIGHTING CONTROLS SYSTEM SETUP, CALIBRATION, ADJUSTING, PROGRAMING (ETC); E.C. SHALL PROVIDE WRITTEN CERTIFICATION THAT THE LIGHTING CONTROLS MEET THE PERFORMANCE CRITERIA OF 2025 ECCCNYS.

ADD ALTERNATES:

1. PROVIDE A SEPARATE LINE ITEM COST FOR AN ADDITIONAL TEN (10) 120V, 20A CIRCUITS IN THE BID PRICE. THE LOCATIONS OF THESE CIRCUITS SHALL BE DETERMINED IN THE FIELD WITH THE R&F CM & ARCHITECT PRIOR TO COMMENCEMENT OF ROUGH-IN. COST FOR EACH OF THE FIVE (5) CIRCUITS SHALL CONSIST OF 200 LINEAR FEET OF BRANCH CIRCUIT WIRING [(2) #12 & (1) #12 GRD. IN ¾" CONDUIT] WITH TEN (10) 20A, 120V NEMA 5-20R DUPLEX RECEPTACLES IN RECESSED OUTLET BOXES.

DEDUCT ALTERNATES:

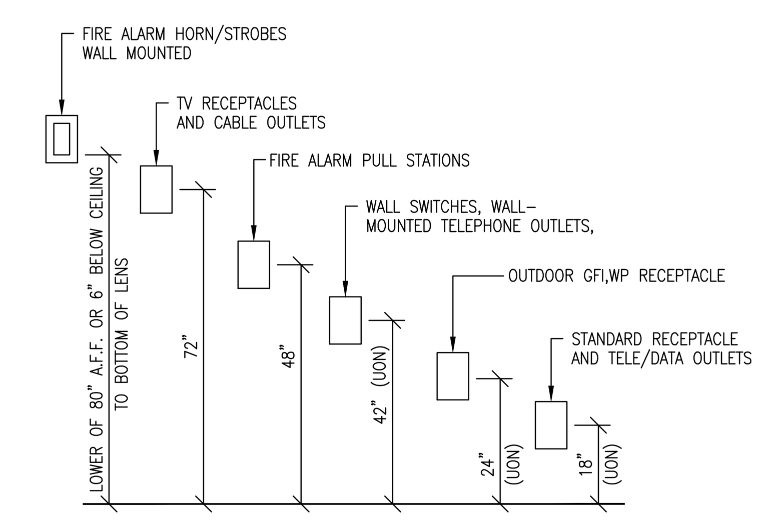
NONE.

ASHRAE 90.1 CLOSEOUT REQUIREMENTS

PER REQUIREMENTS OF ASHRAE 90.1, THESE CONSTRUCTION DOCUMENTS HEREBY REQUIRE THAT WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE BY THE AHJ, RECORD DRAWINGS OF THE ACTUAL LIGHTING INSTALLATION SHALL BE PROVIDED BY THE EC TO THE BUILDING OWNER (OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER). THESE RECORD DRAWINGS SHALL INCLUDE, AS A MINIMUM, THE LOCATION, LUMINAIRE IDENTIFIER, CONTROL, AND CIRCUITING FOR EACH PIECE OF LIGHTING EQUIPMENT.

PER REQUIREMENTS OF ASHRAE 90.1, THESE CONSTRUCTION DOCUMENTS HEREBY REQUIRE FOR ALL INSTALLED LIGHTING EQUIPMENT AND LIGHTING CONTROLS THAT AN OPERATING MANUAL AND MAINTENANCE MANUAL BE PROVIDED BY THE EC TO THE BUILDING OWNER (OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER) WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE BY THE AHJ.
THESE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:

- SUBMITTAL DATA INDICATING ALL SELECTED OPTIONS FOR EACH PIECE OF LIGHTING EQUIPMENT, INCLUDING BUT NOT LIMITED TO LAMPS, BALLASTS/DRIVERS, AND LIGHTING CONTROLS.
- OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF LIGHTING EQUIPMENT AND LIGHTING CONTROLS WITH ROUTINE MAINTENANCE CLEARLY IDENTIFIED INCLUDING, AS A MINIMUM, A RECOMMENDED RELAMPING/CLEANING PROGRAM AND A SCHEDULE FOR INSPECTING AND RECALIBRATING ALL LIGHTING CONTROLS.
- A COMPLETE NARRATIVE OF HOW EACH LIGHTING CONTROL SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SETTINGS.



TYPICAL DEVICE MOUNTING HEIGHT ELEVATION

* NOTE: ANY MOUNTING HEIGHT SHOWN ON ARCHITECTS' DRAWINGS SHALL SUPERSEDE THOSE SHOWN ABOVE UNLESS IT CONFLICTS WITH CODE REQUIREMENTS.

CURRENT ISSUE:
PERMIT

DWG NO.	DRAWING TITLE	0 (10-09-26) ISSUED FOR PERMIT
E1.0	ELECTRICAL SYMBOLS, NOTES, & ABBREVIATIONS	●
E1.1	ENERGY CODE COMPLIANCE DOCUMENTATION	●
ED1.0	ELECTRICAL DEMOLITION - REFLECTED CEILING PLAN	●
ED1.1	ELECTRICAL DEMOLITION - FLOOR PLAN	●
E2.0	ELECTRICAL - PARTIAL LIGHTING PLAN A	●
E2.1	ELECTRICAL - PARTIAL LIGHTING PLAN B	●
E3.0	ELECTRICAL - PARTIAL POWER PLAN A	●
E3.1	ELECTRICAL - PARTIAL POWER PLAN B	●
E4.0	ELECTRICAL - PARTIAL LOW VOLTAGE PLAN A	●
E4.1	ELECTRICAL - PARTIAL LOW VOLTAGE PLAN B	●
E5.0	ELECTRICAL ONE LINE DIAGRAM	●
E6.0	ELECTRICAL SCHEDULES	●
E7.0	ELECTRICAL DETAILS	●
E8.0	ELECTRICAL SPECIFICATIONS	●

FXB PARTNERSHIPS THROUGH ENGINEERING
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610.558.3464 office
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Engineering Excellence Since 1968
NY CERTIFICATE OF AUTHORIZATION #024191 EXPIRES 07/31/2029

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10/09/2026
PETER J. BONNES, P.E.
LICENSE #077635
EXPIRES 04/30/2029

Client:
RAYMOUR & Flanigan FURNITURE
P.O. Box 220, 7248 Morgan Rd.
Liverpool, NY 13088

Project Name:
Interior Renovations to the Raymour & Flanigan Furniture Showroom located at 1459 Niagara Falls Blvd., Amherst, NY 14228

Plan North · True North

Issue / Revisions:

#	Date	Description
0	10.09.26	Issued for Permit

Drawn By:	RCK
Chk'd By:	PJB
Date:	10.09.2026
Scale:	As Noted
Project Number:	RFF 26111

Drawing Title:
ELECTRICAL SYMBOLS, NOTES, & ABBREVIATIONS

Drawing Number:
E1.0

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COMcheck-Web™

Compliance Certificate

Project Information

Energy Code: 2025 Energy Conservation Construction Code of New York State
Project Title: R&F AMHERST (DJ) NY - RENOVATIONS
Location: Buffalo, New York
Climate Zone: 5a
Project Type: Alteration
Project No: 166774
Project Sub Type: Substantial Alteration
All Electric: false
Is Renewable: false
Has Battery: false
Has Charger: false
Has Heat Pump: false

Construction Site:
1459 NIAGARA FALLS BLVD
AMHERST , New York 14228

Owner/Agent:
RAYMOUR & FLANIGAN
1459 NIAGARA FALLS BLVD
AMHERST , New York 14228
6105583464
christiankremer@fxbinc.com

Designer/Contractor:
FXB ENGINEERING INC
5 CHRISTY DR., SUITE 307
CHADDS FORD , Pennsylvania 19317

Notes:

Renewable energy

Number of Floors:	1
Area of Three Largest Floors:	0
Proposed Capacity:	0
Required Capacity:	0
Proposed Off-site Energy:	0
Required Off-site Energy:	0
Exception:	None

Renewables Pass

Building Area

Description	Floor Area
1-Retail (Retail) : Nonresidential	73222

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2025 Energy Conservation Construction Code of New York State
Project Title: R&F AMHERST (DJ) NY - RENOVATIONS
Location: Buffalo, New York
Climate Zone: 5a
Project Type: Alteration

Construction Site:
1459 NIAGARA FALLS BLVD
AMHERST , New York 14228

Owner/Agent:
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6105583464
christiankremer@fxbinc.com

Designer/Contractor:
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5 CHRISTY DR., SUITE 307
CHADDS FORD , Pennsylvania 19317

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-SHOWROOM (Retail Facilities:Sales area)	69210	0.85	58828
2-RMS OFFICE (Common Space Types:Office - enclosed)	249	0.73	180
3-SALES OFFICE (Common Space Types:Office - open plan)	478	0.56	268
4-ELEC RM (Common Space Types:Electrical/mechanical room): Exempt			
5-ASSOC LOUNGE (Common Space Types:Lounge/breakroom)	350	0.44	154
6-TOILET JANITOR RM AREA (Common Space Types:Restrooms): Exempt			
7-RECEIVING (Common Space Types:Loading dock, interior)	2160	0.51	1102
Total Allowed Watts:			**60531**

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B # of Fixture	C Fixture Watt.	D (B X C)
1-SHOWROOM (Retail Facilities:Sales area)			
A-E/EM-ACM-ACM/EM: A-E/EM-ACM-ACM/EM: LED:	478	48	22944
2-RMS OFFICE (Common Space Types:Office - enclosed)			
A-E/EM-ACM-ACM/EM: A-E/EM-ACM-ACM/EM: LED:	3	48	144
3-SALES OFFICE (Common Space Types:Office - open plan)			
A-E/EM-ACM-ACM/EM: A-E/EM-ACM-ACM/EM: LED:	1	48	48
4-ELEC RM (Common Space Types:Electrical/mechanical room): Exempt			
5-ASSOC LOUNGE (Common Space Types:Lounge/breakroom)			
A-E/EM-ACM-ACM/EM: A-E/EM-ACM-ACM/EM: LED:	6	48	288
6-TOILET JANITOR RM AREA (Common Space Types:Restrooms): Exempt			
7-RECEIVING (Common Space Types:Loading dock, interior)			

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B # of Fixture	C Fixture Watt.	D (B X C)
C. C: LED:	20	38.9	778
Total Proposed Watts:			**24202**

Proposed Interior Lighting Controls

Fixture	Lighting Control
1-SHOWROOM (Retail Facilities:Sales area)	
A-E/EM-ACM-ACM/EM: A-E/EM-ACM-ACM/EM: LED:	Interior Timeswitch, Manual Control
2-RMS OFFICE (Common Space Types:Office - enclosed)	
A-E/EM-ACM-ACM/EM: A-E/EM-ACM-ACM/EM: LED:	Occupancy Sensor, Manual Control
3-SALES OFFICE (Common Space Types:Office - open plan)	
A-E/EM-ACM-ACM/EM: A-E/EM-ACM-ACM/EM: LED:	Occupancy Sensor, Manual Control
4-ELEC RM (Common Space Types:Electrical/mechanical room): Exempt	
5-ASSOC LOUNGE (Common Space Types:Lounge/breakroom)	
A-E/EM-ACM-ACM/EM: A-E/EM-ACM-ACM/EM: LED:	Occupancy Sensor, Manual Control
6-TOILET JANITOR RM AREA (Common Space Types:Restrooms): Exempt	
7-RECEIVING (Common Space Types:Loading dock, interior)	
C. C: LED:	Occupancy Sensor, Manual Control

Interior Lighting PASSES

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 2025 Energy Conservation Construction Code of New York State requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Christian Kremer, Sr. PM — 09.15.2026

Name - Title **Signature** **Date**

Inspection Checklist

Energy Code: 2025 Energy Conservation Construction Code of New York State

Requirements: 57% 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.

Plan Review

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C105.2 [PR3]¹	Plans, specifications, and/or calculations provide all information in sufficient detail 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 shall include all interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** E1.0, E1.1, E2.0, E5.0

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Rough-In Electrical Inspection

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1, C405.2.1.1 [EL7]¹	Occupancy sensors installed in classrooms/lecture/training rooms, computer rooms/data center, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, dining rooms, medical suppy rooms, enclosed offices, laundry areas, open plan office areas, restrooms, storage rooms, telemedicine rooms, locker rooms, corridors, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** E1.0, E1.1, E2.0, E5.0
C405.2.1.5 [EL18]¹	Occupancy sensor control function for egress lighting is controlled by a combination of listed emergency relay and occupancy sensors or by signal from another building control system to reduce lighting power by 50% when occupied over 15 minutes.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Luminaires function as normal and egress lighting.
C405.7 [EL3]¹	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.7.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C405.8 [EL4]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 Comply ☐ Not Observable ☐ Not Applicable	
C405.8.1 [EL19]¹	New traction elevators with a rise > 75 ft have a power conversion system complying with Section C405.8.1.1 through C405.8.1.3.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C405.11 [EL1]¹	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C405.10.2 [EL5]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 Comply ☐ Not Observable ☐ Not Applicable	
C405.13 [EL2]¹	Buildings with gross conditioned floor area > 10,000 ft2 will be equipped with a energy monitoring system in compliance with C405.13.1 through C405.13.11.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C405.12, C405.12.1 [EL6]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 Comply ☐ Not Observable ☐ Not Applicable	
C405.2.1.2 [EL8]¹	Occupancy sensors control function in warehouses or warehouses, the lighting in aisleways and in storage areas, shall be 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-swtich.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1.3 [EL9]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 is reduced by >= 50% of the full zone general 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 Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** E1.0, E1.1, E2.0, E5.0
C405.2.10, C405.2.10.1, C405.2.10.2 [EL10]¹	Sleeping or dwelling units provided with lighting controls	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** N/A
C405.2.2, C405.2.2.1 [EL11]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 Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply. **Location on plans/spec:** E1.0, E1.1, E2.0, E5.0
C405.2.3.1 [EL12]¹	Spaces required to have dimming controls have a manual control that allows the occupant to reduce the connected lighting load to 10% of full power.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply. **Location on plans/spec:** E1.0, E1.1, E2.0, E5.0
C405.2.4, C405.2.4.1, C405.2.4.2 [EL13]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 Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Sidelit zones on first floor in Group A-2 and M occupancies. **Location on plans/spec:** E1.0, E1.1, E2.0, E5.0
C405.2.5 [EL14]¹	Additional interior lighting power allowed for specific uses in the approved lighting plans and is automatically controlled and separated from general lighting.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** E1.0, E1.1, E2.0, E5.0

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Final Inspection

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.1.1 [FI58]¹	Building operations and maintenance documents will be provided to the owner that include, at least, equipment 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 Comply ☐ Not Observable ☐ Not Applicable	
C408.2.5 [FI76]¹	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.3 [FI4]¹	Lighting systems and receptacle controls have been tested to ensure proper calibration, adjustment, programming, and operation in accordance with C408.3.1 through C408.3.1.6.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** E1.0, E1.1, E2.0, E5.0
C408.3.2.2 [FI77]¹	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

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Peter J Bonnes 10/09/2026

PETER J. BONNES, P.E.
LICENSE #077635
EXPIRES 04/30/2029

Client:

RAYMOUR & FLANIGAN FURNITURE
P.O. Box 220, 7248 Morgan Rd.
Liverpool, NY 13088

Project Name:

Interior Renovations to the Raymour & Flanigan Furniture Showroom located at 1459 Niagara Falls Blvd., Amherst, NY 14228

Plan North · True North

Issue / Revisions:

#	Date	Description
0	10.09.26	Issued for Permit

Drawn By:	RCK
Chkd By:	PJB
Date:	10.09.2026
Scale:	As Noted
Project Number:	RFF 26111

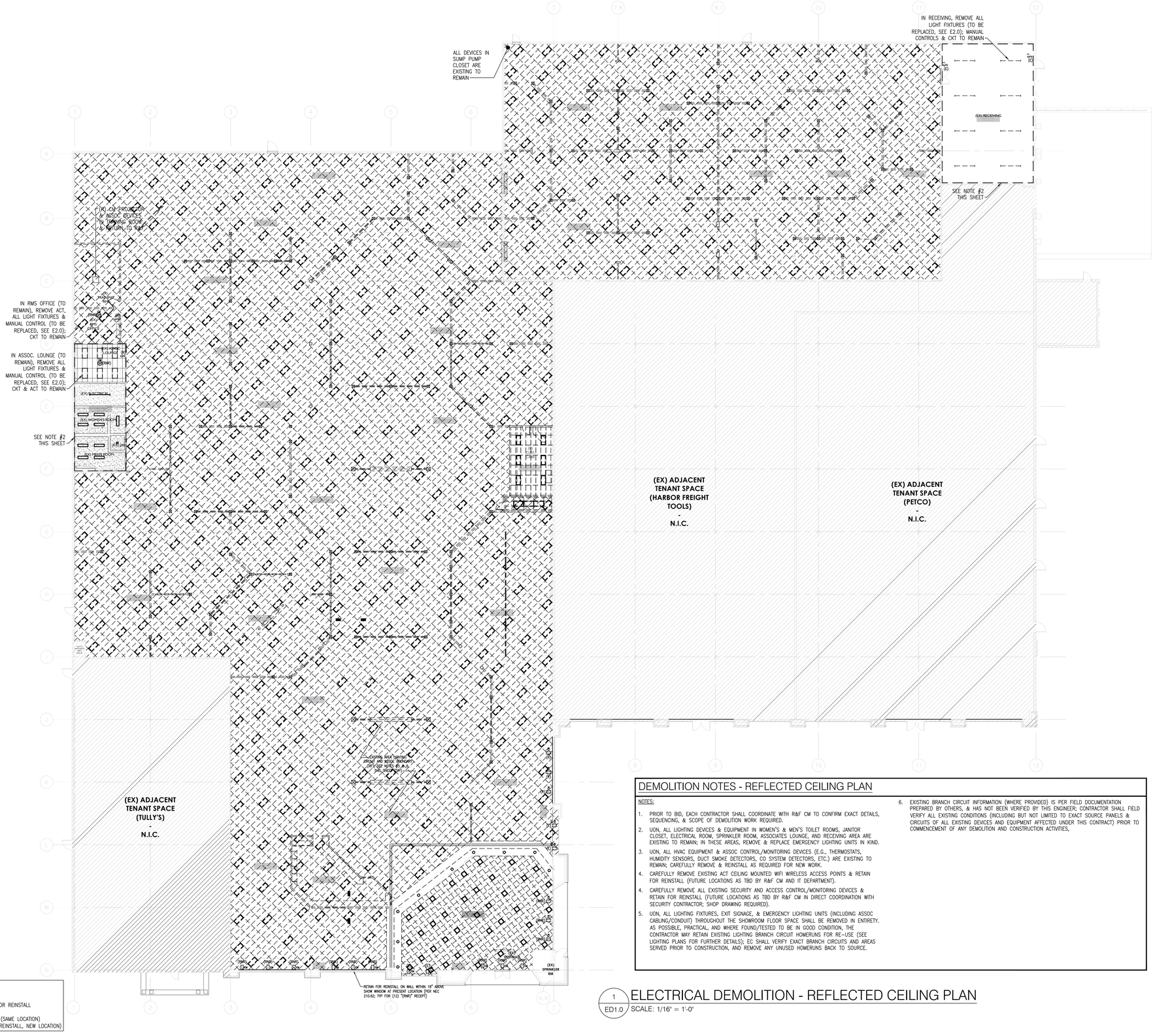
Drawing Title:

ENERGY CODE COMPLIANCE DOCUMENTATION

Drawing Number:

E1.1

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ABBREVIATIONS:
(E) = EXISTING TO REMAIN
(R) = REMOVE IN ENTIRETY
(RNR) = REMOVE & RETAIN FOR REINSTALL
(N) = NEW DEVICE
(REI) = REINSTALLED DEVICE (SAME LOCATION)
(REL) = RELOCATED DEVICE (REINSTALL, NEW LOCATION)

DEMOLITION NOTES - REFLECTED CEILING PLAN

NOTES:

1. PRIOR TO BID, EACH CONTRACTOR SHALL COORDINATE WITH R&F CM TO CONFIRM EXACT DETAILS, SEQUENCING, & SCOPE OF DEMOLITION WORK REQUIRED.
2. UON, ALL LIGHTING DEVICES & EQUIPMENT IN WOMEN'S & MEN'S TOILET ROOMS, JANITOR CLOSET, ELECTRICAL ROOM, SPRINKLER ROOM, ASSOCIATES LOUNGE, AND RECEIVING AREA ARE EXISTING TO REMAIN; IN THESE AREAS, REMOVE & REPLACE EMERGENCY LIGHTING UNITS IN KIND.
3. UON, ALL HVAC EQUIPMENT & ASSOC CONTROL/MONITORING DEVICES (E.G., THERMOSTATS, HUMIDITY SENSORS, DUCT SMOKE DETECTORS, CO SYSTEM DETECTORS, ETC.) ARE EXISTING TO REMAIN; CAREFULLY REMOVE & REINSTALL AS REQUIRED FOR NEW WORK.
4. CAREFULLY REMOVE EXISTING ACT CEILING MOUNTED WIFI WIRELESS ACCESS POINTS & RETAIN FOR REINSTALL (FUTURE LOCATIONS AS TBD BY R&F CM AND IT DEPARTMENT).
4. CAREFULLY REMOVE ALL EXISTING SECURITY AND ACCESS CONTROL/MONITORING DEVICES & RETAIN FOR REINSTALL (FUTURE LOCATIONS AS TBD BY R&F CM IN DIRECT COORDINATION WITH SECURITY CONTRACTOR; SHOP DRAWING REQUIRED).
5. UON, ALL LIGHTING FIXTURES, EXIT SIGNAGE, & EMERGENCY LIGHTING UNITS (INCLUDING ASSOC CABLING/CONDUIT) THROUGHOUT THE SHOWROOM FLOOR SPACE SHALL BE REMOVED IN ENTIRETY. AS POSSIBLE, PRACTICAL, AND WHERE FOUND/TESTED TO BE IN GOOD CONDITION, THE CONTRACTOR MAY RETAIN EXISTING LIGHTING BRANCH CIRCUIT HOMERUNS FOR RE-USE (SEE LIGHTING PLANS FOR FURTHER DETAILS); EC SHALL VERIFY EXACT BRANCH CIRCUITS AND AREAS SERVED PRIOR TO CONSTRUCTION, AND REMOVE ANY UNUSED HOMERUNS BACK TO SOURCE.
6. EXISTING BRANCH CIRCUIT INFORMATION (WHERE PROVIDED) IS PER FIELD DOCUMENTATION PREPARED BY OTHERS, & HAS NOT BEEN VERIFIED BY THIS ENGINEER; CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS (INCLUDING BUT NOT LIMITED TO EXACT SOURCE PANELS & CIRCUITS OF ALL EXISTING DEVICES AND EQUIPMENT AFFECTED UNDER THIS CONTRACT) PRIOR TO COMMENCEMENT OF ANY DEMOLITION AND CONSTRUCTION ACTIVITIES,

1 ED1.0 ELECTRICAL DEMOLITION - REFLECTED CEILING PLAN
SCALE: 1/16" = 1'-0"

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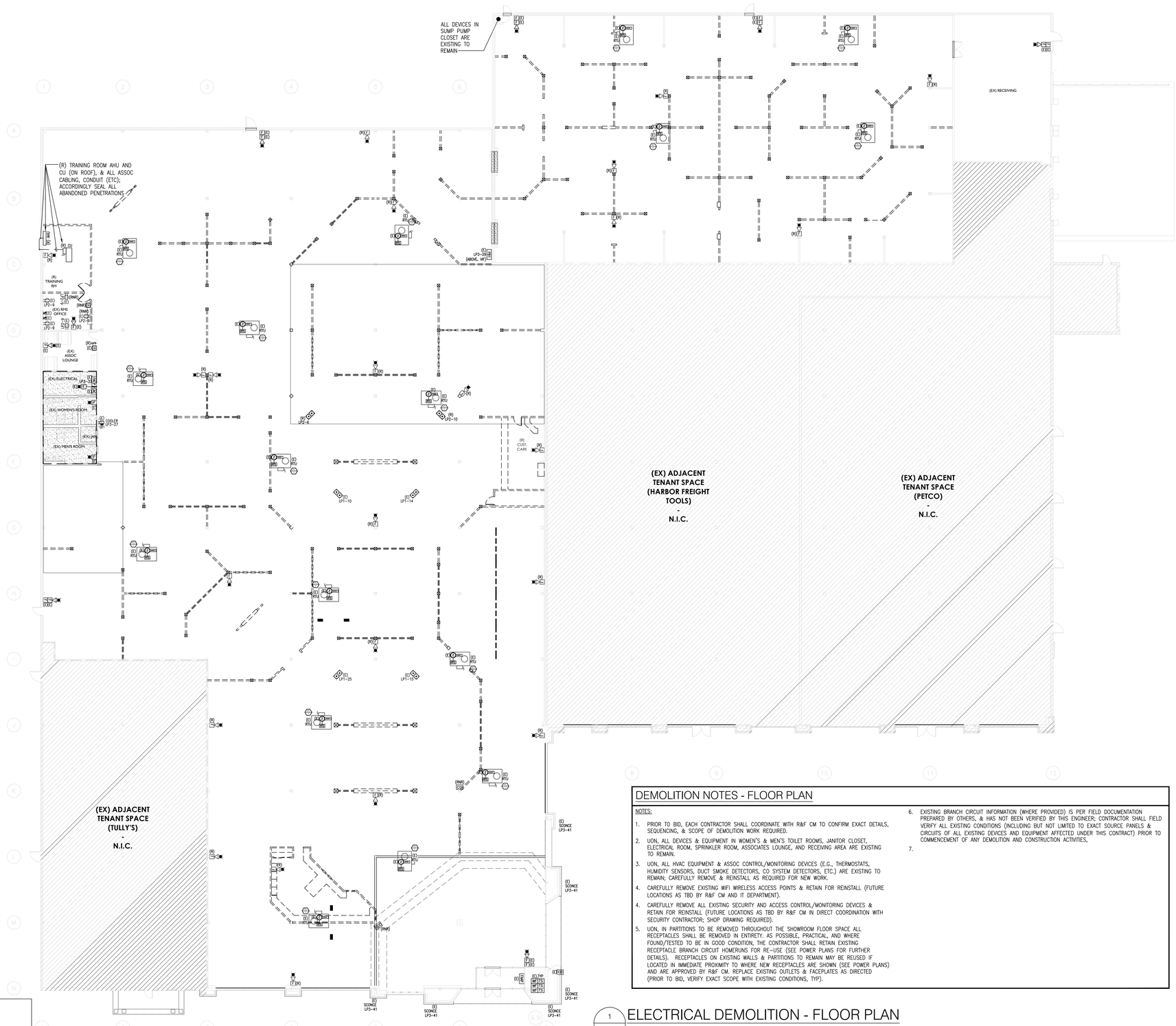
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Chk'd By: PJB
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Scale: As Noted
Project Number: RFF 26111

Drawing Title:
ELECTRICAL DEMOLITION - REFLECTED CEILING PLAN

Drawing Number:
ED1.0

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(N) = NEW DEVICE
(REI) = REINSTALLED DEVICE (SAME LOCATION)
(REL) = RELOCATED DEVICE (REINSTALL, NEW LOCATION)

DEMOLITION NOTES - FLOOR PLAN

NOTES:

1. PRIOR TO BID, EACH CONTRACTOR SHALL COORDINATE WITH R&F CM TO CONFIRM EXACT DETAILS, SEQUENCING, & SCOPE OF DEMOLITION WORK REQUIRED.
2. UON, ALL DEVICES & EQUIPMENT IN WOMEN'S & MEN'S TOILET ROOMS, JANITOR CLOSET, ELECTRICAL ROOM, SPRINKLER ROOM, ASSOCIATES LOUNGE, AND RECEIVING AREA ARE EXISTING TO REMAIN.
3. UON, ALL HVAC EQUIPMENT & ASSOC CONTROL/MONITORING DEVICES (E.G., THERMOSTATS, HUMIDITY SENSORS, DUCT SMOKE DETECTORS, CO SYSTEM DETECTORS, ETC.) ARE EXISTING TO REMAIN; CAREFULLY REMOVE & REINSTALL AS REQUIRED FOR NEW WORK.
4. CAREFULLY REMOVE EXISTING WIFI WIRELESS ACCESS POINTS & RETAIN FOR REINSTALL (FUTURE LOCATIONS AS TBD BY R&F CM AND IT DEPARTMENT).
4. CAREFULLY REMOVE ALL EXISTING SECURITY AND ACCESS CONTROL/MONITORING DEVICES & RETAIN FOR REINSTALL (FUTURE LOCATIONS AS TBD BY R&F CM IN DIRECT COORDINATION WITH SECURITY CONTRACTOR; SHOP DRAWING REQUIRED).
5. UON, IN PARTITIONS TO BE REMOVED THROUGHOUT THE SHOWROOM FLOOR SPACE ALL RECEPTACLES SHALL BE REMOVED IN ENTIRETY. AS POSSIBLE, PRACTICAL, AND WHERE FOUND/TESTED TO BE IN GOOD CONDITION, THE CONTRACTOR SHALL RETAIN EXISTING RECEPTACLE BRANCH CIRCUIT HOMERUNS FOR RE-USE (SEE POWER PLANS FOR FURTHER DETAILS). RECEPTACLES ON EXISTING WALLS & PARTITIONS TO REMAIN MAY BE REUSED IF LOCATED IN IMMEDIATE PROXIMITY TO WHERE NEW RECEPTACLES ARE SHOWN (SEE POWER PLANS) AND ARE APPROVED BY R&F CM. REPLACE EXISTING OUTLETS & FACEPLATES AS DIRECTED (PRIOR TO BID, VERIFY EXACT SCOPE WITH EXISTING CONDITIONS, TYP).
6. EXISTING BRANCH CIRCUIT INFORMATION (WHERE PROVIDED) IS PER FIELD DOCUMENTATION PREPARED BY OTHERS, & HAS NOT BEEN VERIFIED BY THIS ENGINEER; CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS (INCLUDING BUT NOT LIMITED TO EXACT SOURCE PANELS & CIRCUITS OF ALL EXISTING DEVICES AND EQUIPMENT AFFECTED UNDER THIS CONTRACT) PRIOR TO COMMENCEMENT OF ANY DEMOLITION AND CONSTRUCTION ACTIVITIES,
7.

1 ED1.1 ELECTRICAL DEMOLITION - FLOOR PLAN
SCALE: 1/16" = 1'-0"

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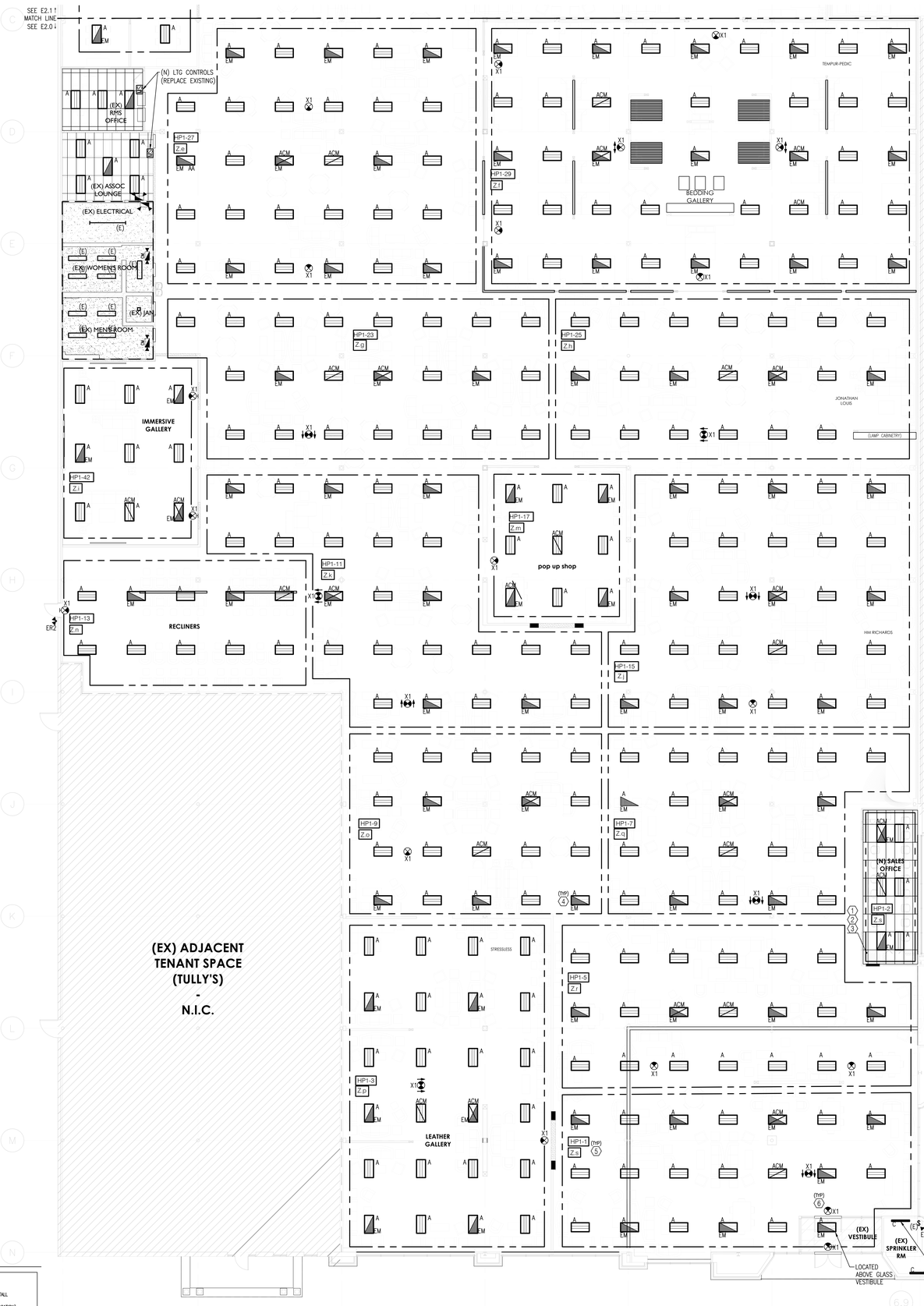
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Drawing Title:
ELECTRICAL DEMOLITION - FLOOR PLAN

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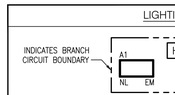
(EX) ADJACENT TENANT SPACE (HARBOR FREIGHT TOOLS) - N.I.C.

(EX) ADJACENT TENANT SPACE (PETCO) - N.I.C.

(EX) ADJACENT TENANT SPACE (TULLY'S) - N.I.C.

ABBREVIATIONS:
(E) = EXISTING TO REMAIN
(X) = REMOVE IN ENTIRETY
(RNR) = REMOVE & RETAIN FOR REINSTALL
(N) = NEW DEVICE
(RD) = REINSTALLED DEVICE (SAME LOCATION)
(REL) = RELOCATED DEVICE (REINSTALL, NEW LOCATION)

LIGHTING ABBREVIATIONS



"A1"	INDICATES FIXTURE TYPE
"EM"	INDICATES EMERGENCY FIXTURE*
"NL"	INDICATES NIGHT LIGHT*
"HP1-31"	INDICATES SOURCE BRANCH CIRCUIT
"Z.a"	INDICATES CONTROL ZONE "a"**

NOTES:
* EM & NL FIXTURES SHALL BE WIRED AHEAD OF CONTROLS
** CONSULT MANUFACTURER DETAILS FOR EXACT INSTALL & PROGRAMMING REQUIREMENTS FOR INTEGRAL 'LIGHTCLOUD' CONTROLS SYSTEM OF TYPE A/AA FIXTURES; PRIOR TO INSTALL, VERIFY EACH CONTROL ZONE WITH R&F CM, & EMS INTERFACE REQUIREMENTS DIRECTLY WITH EMS CONTRACTOR.

GENERAL LIGHTING NOTES

1. ALL SHOWN IS NEW BY E.C. UNLESS SPECIFICALLY NOTED OTHERWISE.
2. INDICATED WIRING IS DIAGRAMMATIC IN NATURE AND ONLY INTENDED TO CONVEY CIRCUITING INTENT.
3. INDICATED CIRCUITS SHALL CONSIST OF 2 #12 & 1 #12 GRD IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
4. EC SHALL RETAIN SERVICES OF NOVAR CONTROLS REPRESENTATIVE TO INSPECT EXISTING "SAVVY/LOGIC ONE" EMS/BMS SYSTEM & REPORT ON UPGRADES REQUIRED TO RETURN SYSTEM TO FULL FUNCTIONALITY PER R&F REQUIREMENTS; EC SHALL COORDINATE EXACT LIGHTING CONTROLS CONFIGURATION WITH AUTHORIZED R&F REPRESENTATIVE PRIOR TO CONSTRUCTION.
5. ALL BATTERY POWERED EGRESS LIGHTS, EXIT SIGNS, AND NIGHT LIGHTS SHALL BE WIRED AHEAD OF THE LOCAL SWITCH CONTROL.
6. FINAL LOCATIONS & QUANTITY OF EXIT SIGNS SHALL BE FIELD COORDINATED WITH C.C. AND LOCAL FIRE MARSHAL PRIOR TO PERFORMING WORK.
7. HOMERUNS TO ALL LIGHTING CIRCUITS SHALL BE WIRED THROUGH THE EMS SYSTEM, UNLESS NOTED OTHERWISE..
8. ALL EXTERIOR SIGNAGE SHALL BE CIRCUITED THROUGH A PHOTOCELL AND ASTRONOMICAL TIME CLOCK, U.N.O.
9. PROVIDE AN ACCESSIBLE WEATHERPROOF DISCONNECT SWITCH & J-BOX FOR EACH EXTERIOR SIGN IN ACCORDANCE WITH NEC 600.6. COORDINATE EXACT LOCATIONS, QUANTITIES & REQUIREMENTS WITH R&F, ARCHITECT, & SIGNAGE CONTRACTOR IN FIELD.
10. EC SHALL COORDINATE EXACT REQUIREMENTS FOR SECURITY LIGHTING AT EXTERIOR DOORS WITH AUTHORIZED RFF REPRESENTATIVE PRIOR TO BID & CONSTRUCTION.

KEYED NOTES:

1. PRVIDE MANUAL CONTROLS TO MATCH EMS/BMS & R&F CONTROLS REQUIREMENTS; LABEL EACH MANUAL CONTROL TO INDICATE AREA SERVED.
2. COORDINATE LOCATION WITH R&F BEFORE ROUGH-IN.
3. EMS SYSTEM OVERRIDE KEYPAD FOR LIGHTING CONTROLS IS TO BE LOCATED IN SALES OFFICE. E.C. SHALL COORDINATE ALL ADDITIONAL NECESSARY MATERIALS AND DEVICES WITH EMS CONTRACTOR PRIOR TO CONSTRUCTION; EMS CONTRACTOR SHALL VERIFY ALL SYSTEM POINTS MEET RFF PROTOTYPICIAL DESIGN INTENT & APPLICABLE NY ENERGY CODE REQUIREMENTS.
4. FOR ALL SALES AREA TYPE "A/EM" LIGHTING FIXTURES; THE NORMAL LEADS OF THE INDICATED EMERGENCY LIGHTING FIXTURE SHALL BE SWITCHED AND SUPPLIED THROUGH THE SWITCHED CONDUCTOR OF THE CIRCUIT BREAKER SUPPLYING CIRCUIT. THE EMERGENCY DRIVER LEADS SHALL BE CHARGED BY THE UNSWITCHED CONDUCTOR OF THE CIRCUIT BREAKER SUPPLYING THE CIRCUIT. SEE MANUFACTURER'S INSTRUCTIONS & E6.0 FOR WIRING DETAIL.
5. ALL LIGHTING FIXTURES WITHIN THE SPECIFIED ZONE SHALL BE CIRCUITED TO THE CIRCUIT NUMBER(S) INDICATED ON THIS PLAN, UNLESS NOTED OTHERWISE. SEE PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
6. EXIT LIGHTS ON THIS PLAN SHALL BE CIRCUITED TO ASSOCIATED UNSWITCHED EMERGENCY CIRCUIT CONDUCTOR.

1 E2.0 ELECTRICAL - PARTIAL LIGHTING PLAN A
SCALE: 3/32" = 1'-0"

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Liverpool, NY 13088

Project Name:
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Plan North | True North

Issue / Revisions:

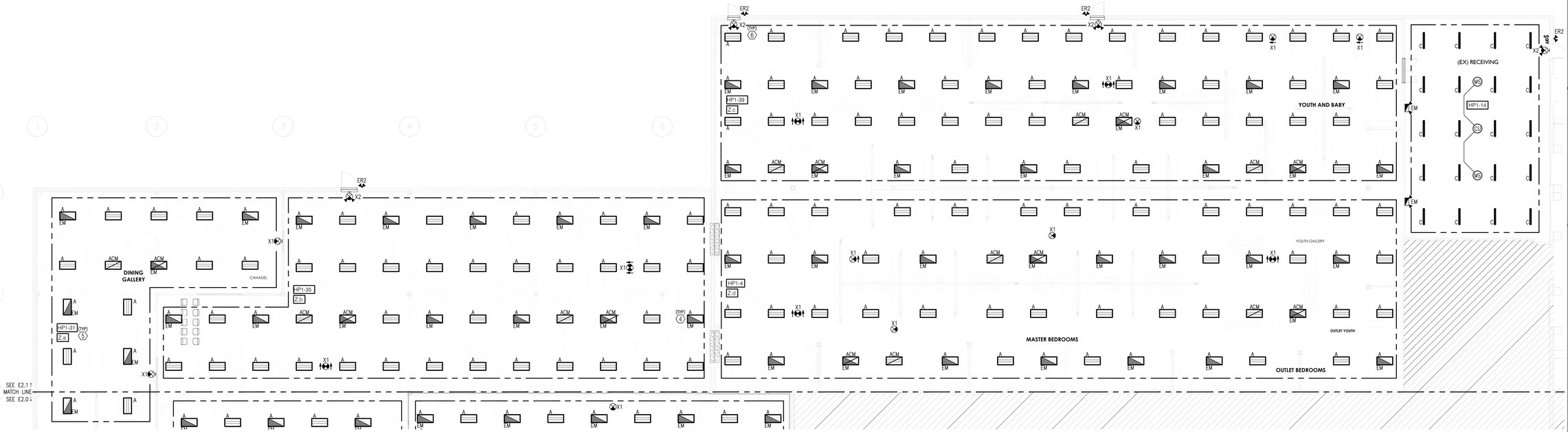
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ELECTRICAL - PARTIAL LIGHTING PLAN A

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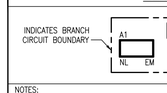
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1 E2.1 ELECTRICAL - PARTIAL LIGHTING PLAN B

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

LIGHTING ABBREVIATIONS



"A1"	INDICATES FIXTURE TYPE
"EM"	INDICATES EMERGENCY FIXTURE*
"NL"	INDICATES NIGHT LIGHT*
"HP1-31"	INDICATES SOURCE BRANCH CIRCUIT
"Z.a"	INDICATES CONTROL ZONE 'a'**

NOTES:
* EM & NL FIXTURES SHALL BE WIRED AHEAD OF CONTROLS
** CONSULT MANUFACTURER DETAILS FOR EXACT INSTALL & PROGRAMMING REQUIREMENTS FOR INTEGRAL 'LIGHTCLOUD' CONTROLS SYSTEM OF TYPE A/AA FIXTURES; PRIOR TO INSTALL, VERIFY EACH CONTROL ZONE WITH R&F CM, & EMS INTERFACE REQUIREMENTS DIRECTLY WITH EMS CONTRACTOR.

GENERAL LIGHTING NOTES

1. ALL SHOWN IS NEW BY E.C. UNLESS SPECIFICALLY NOTED OTHERWISE.
2. INDICATED WIRING IS DIAGRAMMATIC IN NATURE AND ONLY INTENDED TO CONVEY CIRCUITING INTENT.
3. INDICATED CIRCUITS SHALL CONSIST OF 2 #12 & 1 #12 GRD IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
4. EC SHALL RETAIN SERVICES OF NOVAR CONTROLS REPRESENTATIVE TO INSPECT EXISTING 'SMVYY/LOGIC ONE' EMS/BMS SYSTEM & REPORT ON UPGRADES REQUIRED TO RETURN SYSTEM TO FULL FUNCTIONALITY PER R&F REQUIREMENTS; EC SHALL COORDINATE EXACT LIGHTING CONTROLS CONFIGURATION WITH AUTHORIZED R&F REPRESENTATIVE PRIOR TO CONSTRUCTION.
5. ALL BATTERY POWERED EGRESS LIGHTS, EXIT SIGNS, AND NIGHT LIGHTS SHALL BE WIRED AHEAD OF THE LOCAL SWITCH CONTROL.
6. FINAL LOCATIONS & QUANTITY OF EXIT SIGNS SHALL BE FIELD COORDINATED WITH C.C. AND LOCAL FIRE MARSHAL PRIOR TO PERFORMING WORK.
7. HOMERUNS TO ALL LIGHTING CIRCUITS SHALL BE WIRED THROUGH THE EMS SYSTEM, UNLESS NOTED OTHERWISE..
8. ALL EXTERIOR SIGNAGE SHALL BE CIRCUITED THROUGH A PHOTOCELL AND ASTRONOMICAL TIME CLOCK, U.N.O.
9. PROVIDE AN ACCESSIBLE WEATHERPROOF DISCONNECT SWITCH & J-BOX FOR EACH EXTERIOR SIGN IN ACCORDANCE WITH NEC 600.6. COORDINATE EXACT LOCATIONS, QUANTITIES & REQUIREMENTS WITH R&F, ARCHITECT, & SIGNAGE CONTRACTOR IN FIELD.
10. EC SHALL COORDINATE EXACT REQUIREMENTS FOR SECURITY LIGHTING AT EXTERIOR DOORS WITH AUTHORIZED RFF REPRESENTATIVE PRIOR TO BID & CONSTRUCTION.

KEYED NOTES:

1. PRVIDE MANUAL CONTROLS TO MATCH EMS/BMS & R&F CONTROLS REQUIREMENTS; LABEL EACH MANUAL CONTROL TO INDICATE AREA SERVED.
2. COORDINATE LOCATION WITH R&F BEFORE ROUGH-IN.
3. EMS SYSTEM OVERRIDE KEYPAD FOR LIGHTING CONTROLS IS TO BE LOCATED IN SALES OFFICE. E.C. SHALL COORDINATE ALL ADDITIONAL NECESSARY MATERIALS AND DEVICES WITH EMS CONTRACTOR PRIOR TO CONSTRUCTION; EMS CONTRACTOR SHALL VERIFY ALL SYSTEM POINTS MEET RFF PROTOTYPICIAL DESIGN INTENT & APPLICABLE NY ENERGY CODE REQUIREMENTS.
4. FOR ALL SALES AREA TYPE 'A/EM' LIGHTING FIXTURES; THE NORMAL LEADS OF THE INDICATED EMERGENCY LIGHTING FIXTURE SHALL BE SWITCHED AND SUPPLIED THROUGH THE SWITCHED CONDUCTOR OF THE CIRCUIT BREAKER SUPPLYING CIRCUIT. THE EMERGENCY DRIVER LEADS SHALL BE CHARGED BY THE UNSWITCHED CONDUCTOR OF THE CIRCUIT BREAKER SUPPLYING THE CIRCUIT. SEE MANUFACTURER'S INSTRUCTIONS & E6.0 FOR WIRING DETAIL.
5. ALL LIGHTING FIXTURES WITHIN THE SPECIFIED ZONE SHALL BE CIRCUITED TO THE CIRCUIT NUMBER(S) INDICATED ON THIS PLAN, UNLESS NOTED OTHERWISE. SEE PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
6. EXIT LIGHTS ON THIS PLAN SHALL BE CIRCUITED TO ASSOCIATED UNSWITCHED EMERGENCY CIRCUIT CONDUCTOR.

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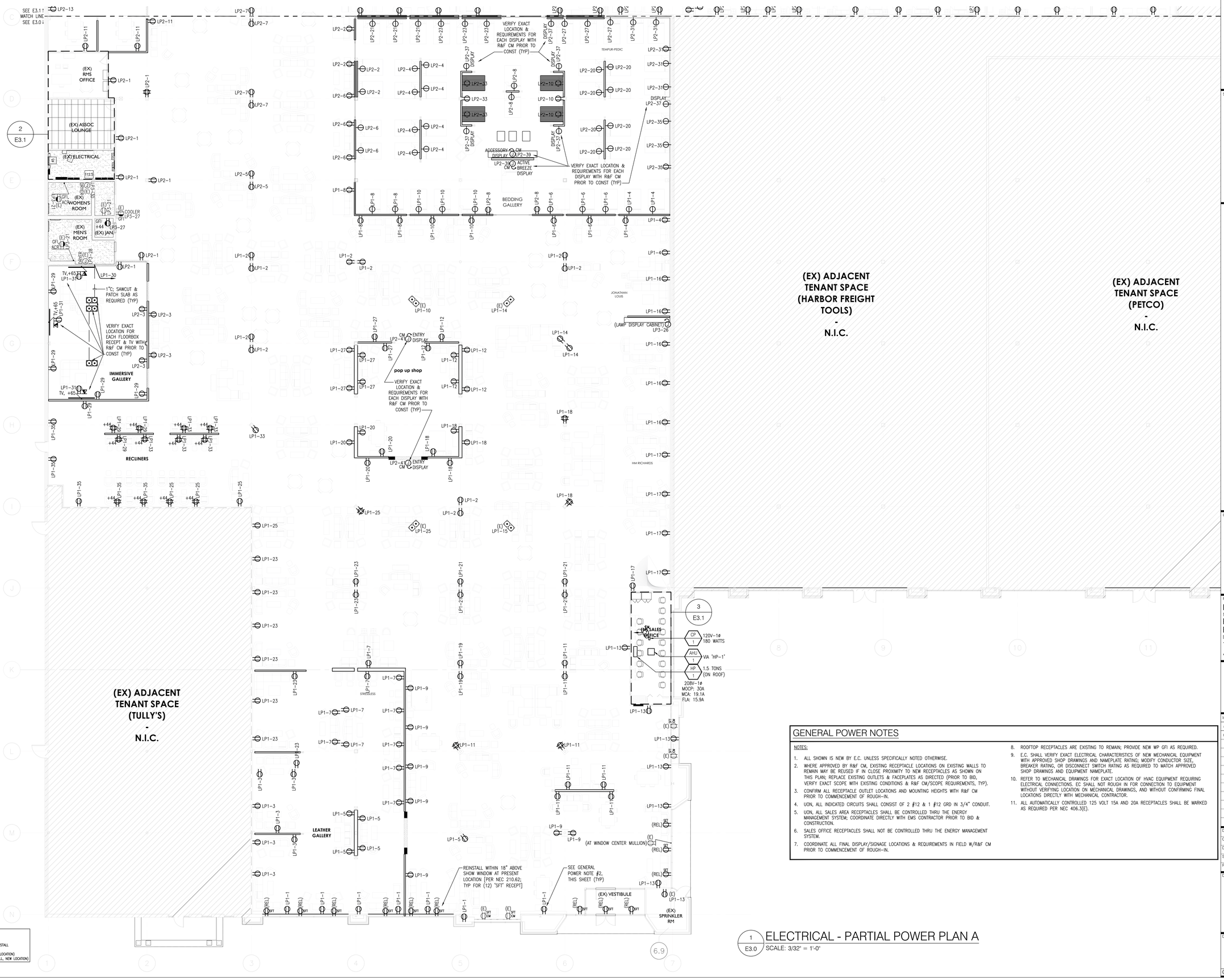
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ELECTRICAL - PARTIAL LIGHTING PLAN B

Drawing Number:

E2.1

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(N) = NEW DEVICE
(RE) = REINSTALLED DEVICE (SAME LOCATION)
(REL) = RELOCATED DEVICE (REINSTALL, NEW LOCATION)

GENERAL POWER NOTES

NOTES:

1. ALL SHOWN IS NEW BY E.C. UNLESS SPECIFICALLY NOTED OTHERWISE.
2. WHERE APPROVED BY R&F CM, EXISTING RECEPTACLE LOCATIONS ON EXISTING WALLS TO REMAIN MAY BE REUSED IF IN CLOSE PROXIMITY TO NEW RECEPTACLES AS SHOWN ON THIS PLAN; REPLACE EXISTING OUTLETS & FACEPLATES AS DIRECTED (PRIOR TO BID. VERIFY EXACT SCOPE WITH EXISTING CONDITIONS & R&F CM/SCOPE REQUIREMENTS, TYP).
3. CONFIRM ALL RECEPTACLE OUTLET LOCATIONS AND MOUNTING HEIGHTS WITH R&F CM PRIOR TO COMMENCEMENT OF ROUGH-IN.
4. UON, ALL INDICATED CIRCUITS SHALL CONSIST OF 2 #12 & 1 #12 GRD IN 3/4" CONDUIT.
5. UON, ALL SALES AREA RECEPTACLES SHALL BE CONTROLLED THRU THE ENERGY MANAGEMENT SYSTEM; COORDINATE DIRECTLY WITH EMS CONTRACTOR PRIOR TO BID & CONSTRUCTION.
6. SALES OFFICE RECEPTACLES SHALL NOT BE CONTROLLED THRU THE ENERGY MANAGEMENT SYSTEM.
7. COORDINATE ALL FINAL DISPLAY/SIGNAGE LOCATIONS & REQUIREMENTS IN FIELD W/R&F CM PRIOR TO COMMENCEMENT OF ROUGH-IN.
8. ROOFTOP RECEPTACLES ARE EXISTING TO REMAIN; PROVIDE NEW WP GFI AS REQUIRED.
9. E.C. SHALL VERIFY EXACT ELECTRICAL CHARACTERISTICS OF NEW MECHANICAL EQUIPMENT WITH APPROVED SHOP DRAWINGS AND NAMEPLATE RATING; MODIFY CONDUCTOR SIZE, BREAKER RATING, OR DISCONNECT SWITCH RATING AS REQUIRED TO MATCH APPROVED SHOP DRAWINGS AND EQUIPMENT NAMEPLATE.
10. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF HVAC EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. EC SHALL NOT ROUGH IN FOR CONNECTION TO EQUIPMENT WITHOUT VERIFYING LOCATION ON MECHANICAL DRAWINGS, AND WITHOUT CONFIRMING FINAL LOCATIONS DIRECTLY WITH MECHANICAL CONTRACTOR.
11. ALL AUTOMATICALLY CONTROLLED 125 VOLT 15A AND 20A RECEPTACLES SHALL BE MARKED AS REQUIRED PER NEC 406.3(E).

1 E3.0 ELECTRICAL - PARTIAL POWER PLAN A
SCALE: 3/32" = 1'-0"

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Amherst, NY 14228

Plan North | True North

Issue / Revisions:

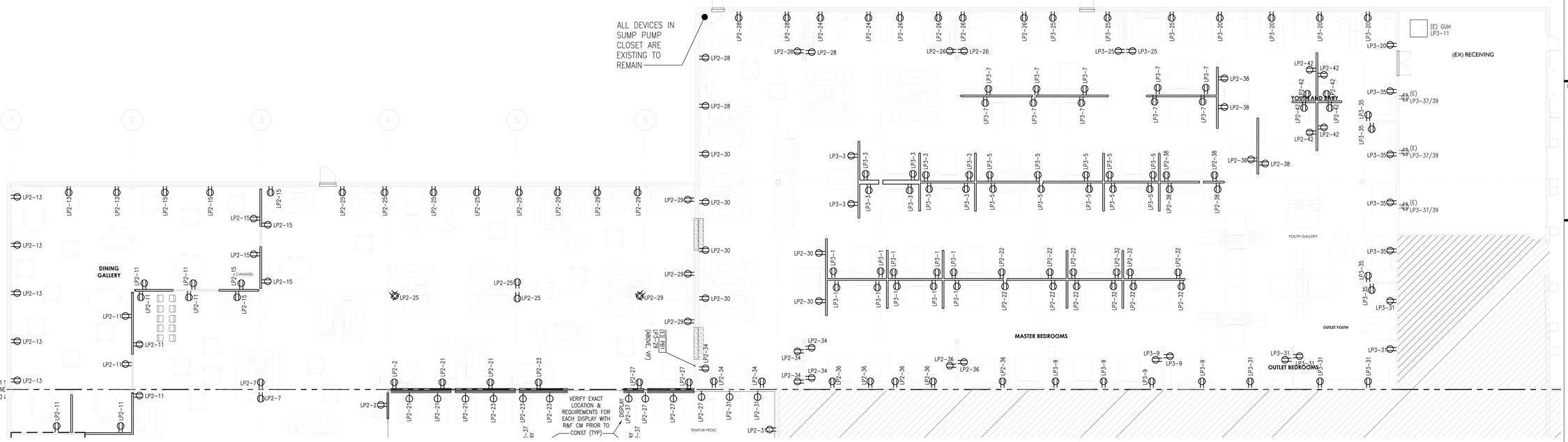
#	Date	Description
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Drawn By: RCK
Chkd By: PJB
Date: 10.09.2026
Scale: As Noted
Project Number: RFF 26111

Drawing Title:
ELECTRICAL - PARTIAL POWER PLAN A

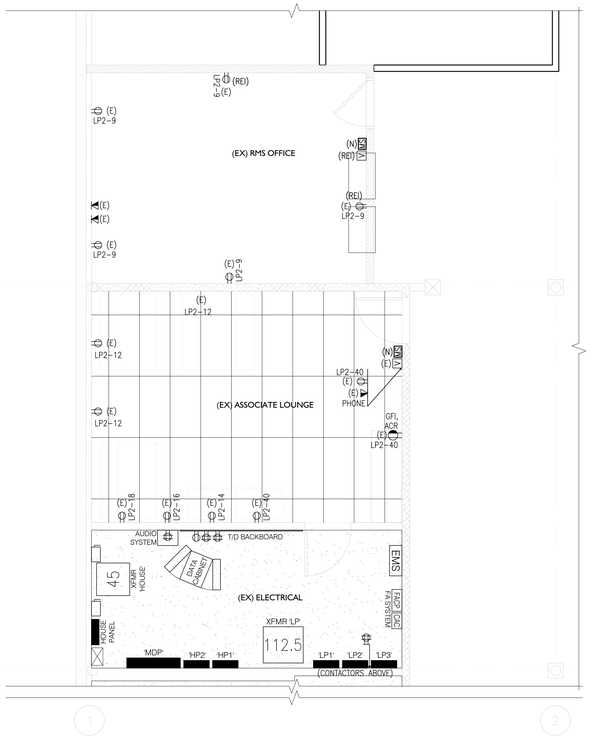
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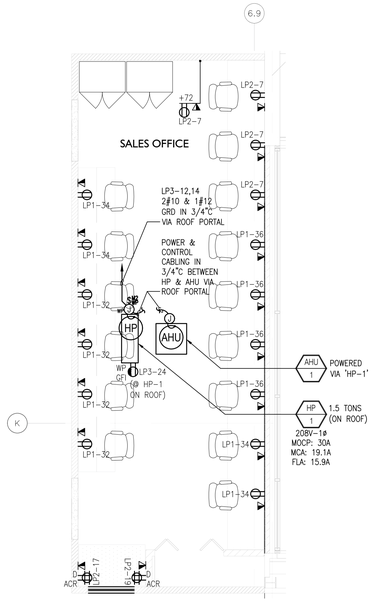
1 / E3.1 ELECTRICAL - PARTIAL POWER PLAN B

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



2 / E3.1 ENLARGED POWER PLAN - OFFICE, ASSOCIATE LOUNGE, AND ELECTRICAL ROOM

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



3 / E3.1 ENLARGED POWER PLAN - SALES OFFICE

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

GENERAL POWER NOTES

NOTES:

1. ALL SHOWN IS NEW BY E.C. UNLESS SPECIFICALLY NOTED OTHERWISE.
2. WHERE APPROVED BY R&F CM, EXISTING RECEPTACLE LOCATIONS ON EXISTING WALLS TO REMAIN MAY BE REUSED IF IN CLOSE PROXIMITY TO NEW RECEPTACLES AS SHOWN ON THIS PLAN; REPLACE EXISTING OUTLETS & FACEPLATES AS DIRECTED (PRIOR TO BID, VERIFY EXACT SCOPE WITH EXISTING CONDITIONS & R&F CM/SCOPE REQUIREMENTS, TYP).
3. CONFIRM ALL RECEPTACLE OUTLET LOCATIONS AND MOUNTING HEIGHTS WITH R&F CM PRIOR TO COMMENCEMENT OF ROUGH-IN.
4. UON, ALL INDICATED CIRCUITS SHALL CONSIST OF 2 #12 & 1 #12 GRD IN 3/4" CONDUIT.
5. UON, ALL SALES AREA RECEPTACLES SHALL BE CONTROLLED THRU THE ENERGY MANAGEMENT SYSTEM; COORDINATE DIRECTLY WITH EMS CONTRACTOR PRIOR TO BID & CONSTRUCTION.
6. SALES OFFICE RECEPTACLES SHALL NOT BE CONTROLLED THRU THE ENERGY MANAGEMENT SYSTEM.
7. COORDINATE ALL FINAL DISPLAY/SIGNAGE LOCATIONS & REQUIREMENTS IN FIELD W/R&F CM PRIOR TO COMMENCEMENT OF ROUGH-IN.
8. ROOFTOP RECEPTACLES ARE EXISTING TO REMAIN; PROVIDE NEW WP GFI AS REQUIRED.
9. E.C. SHALL VERIFY EXACT ELECTRICAL CHARACTERISTICS OF NEW MECHANICAL EQUIPMENT WITH APPROVED SHOP DRAWINGS AND NAMEPLATE RATING; MODIFY CONDUCTOR SIZE, BREAKER RATING, OR DISCONNECT SWITCH RATING AS REQUIRED TO MATCH APPROVED SHOP DRAWINGS AND EQUIPMENT NAMEPLATE.
10. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF HVAC EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. EC SHALL NOT ROUGH IN FOR CONNECTION TO EQUIPMENT WITHOUT VERIFYING LOCATION ON MECHANICAL DRAWINGS, AND WITHOUT CONFIRMING FINAL LOCATIONS DIRECTLY WITH MECHANICAL CONTRACTOR.
11. ALL AUTOMATICALLY CONTROLLED 125 VOLT 15A AND 20A RECEPTACLES SHALL BE MARKED AS REQUIRED PER NEC 406.3(E).

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Seal:



Peter J Bonnes
10/09/2026

PETER J. BONNES, P.E.
LICENSE #077635
EXPIRES 04/30/2029

Client:

RAYMOUR & Flanigan FURNITURE
P.O. Box 220, 7248 Morgan Rd.
Liverpool, NY 13088

Project Name:

Interior Renovations
to the
Raymour & Flanigan Furniture Showroom
located at
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Plan North | True North

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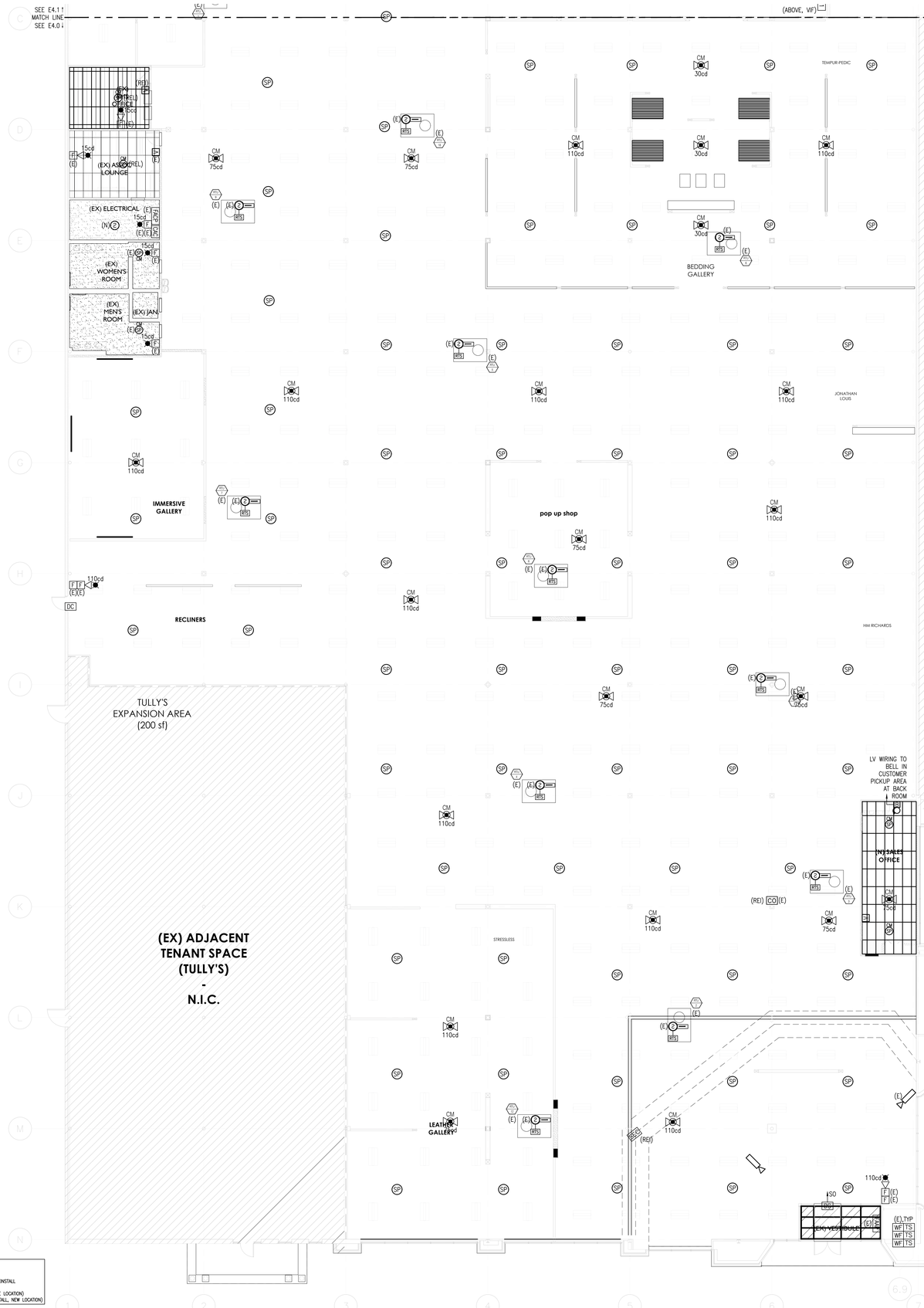
Drawing Title:

ELECTRICAL - PARTIAL POWER PLAN B, ENLARGED PLANS

Drawing Number:

E3.1

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1 E4.0 ELECTRICAL - PARTIAL LOW VOLTAGE PLAN A

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

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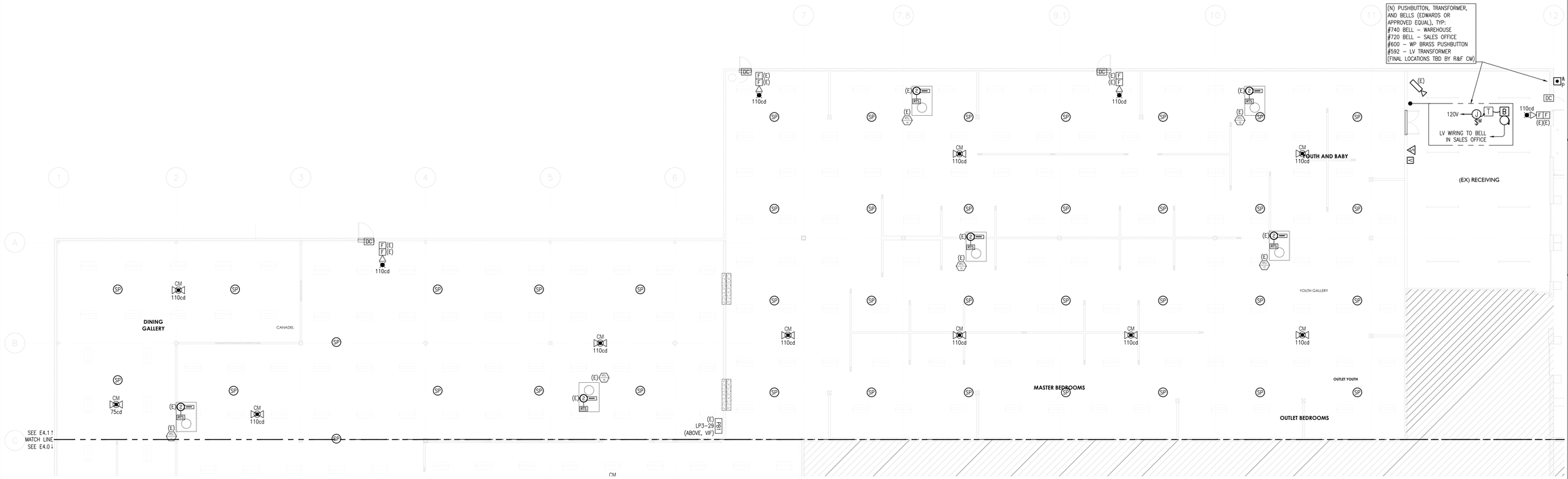
Drawing Title:

ELECTRICAL - PARTIAL LOW VOLTAGE PLAN A

Drawing Number:

E4.0

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1 / E4.1 ELECTRICAL - PARTIAL LOW VOLTAGE PLAN B

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

HEAD END CONFIGURATION

1. TOA MIXER/AMPLIFIER TO HAVE 1 – TOALRIS TEL/PAGE MODULE AND 1 – TOA B115 MUSIC MODULE FOR TEL/MUSIC INTERFACE TO POWER ONLY THE LOCATION SPECIFY BY R&F REPRESENTATIVE. COORDINATE PRIOR TO INSTALLATION.
2. TOA MIXER/AMPLIFIER TO HAVE 1 – TOALRIS TEL/PAGE MODULE AND 1 – TOA B115 MUSIC MODULE FOR TEL/MUSIC INTERFACE TO POWER ONLY THE LOCATION SPECIFY BY R&F REPRESENTATIVE. COORDINATE PRIOR TO INSTALLATION.
3. OFFICES, LUNCH ROOM, AND RESTROOMS SHALL HAVE SEPARATE VOLUME CONTROLS RECESSED IN WALLS FOR INDEPENDENT VOLUME WITHIN EACH AREA. HOMERUN CABLE FROM SPEAKERS IN EACH AREA VIA VOLUME CONTROL TO TOA MIXER/AMPLIFIER.
4. E.C. SHALL VERIFY LOCATION AND CONFIGURATION OF HEAD END WITH R&F CM.

INSTALL NOTES

1. MAIN ENTRANCE TO HAVE NO VOLUME CONTROL AND ARE CONTROLLED DIRECTLY OFF MASTER VOLUME CONTROL ON TOA MIXER/AMPLIFIER.
2. ALL SPEAKER WIRING SHALL BE PLENUM RATED 18 GAUGE, UNSHEILDED, 2 CONDUCTOR CABLE.
3. TOA MIXER/AMPLIFIER TO ALLOW FOR SEPARATE INPUTS/VOLUMES FOR TEL–PAGE AND MUSIC SERVICES FOR PROPER BALANCING.
4. COORDINATE INSTALL WITH R&F CM PRIOR TO CONSTRUCTION.
5. ELECTRICAL CONTRACTOR TO PROVIDE QUAD RECEPTACLE AND TELE/DATA OUTLET AT THE MUSIC EQUIPMENT HEAD END LOCATION (AS REQUIRED/DIRECTED BY R&F CM).

KEY

- (SP) CEILING SPEAKERS (BOSE #DM3P; BLACK OR WHITE SPEAKER & CORD PER R&F CM; VERIFY PRIOR TO PURCHASE)
  - –SHOWROOM SPEAKERS TAPPED AT 4 WATTS EACH
  - –VESTIBULE/FOYER SPEAKERS TAPPED AT 8 WATTS EACH
  - –LOUNGE AND SALES OFFICES TAPPED AT 2 WATTS EACH
- STOCK HORN IN WAREHOUSE/LOADING DOCK AREA TAPPED AT 6 WATTS EACH.
- [A] HEAD–END ELCTRONICS WILL BE 1 – TOA A912MK2 MIXER AMPLIFIER AND 1– QSC ISA 500T POWER AMPLIFER – SALES FLOOR. REFER TO HEAD–END CONFIGURATION DESCRIPTION ON SHEET EX.X. THE HEAD END SHALL BE CONNECTED FOR TEL/PAGE OVERRIDE OF MUSIC SOURCE. MUSIC SOURCE TO BE INSTALLED BY MUSIC ONLY FOR OVERHEAD PAGE THROUGH SOUND SYSTEM AND MUSIC ON HOLD FOR TELEPHONE LINES.
- [V] #QC–10 VOLUME CONTROL
- SECURITY CAMERA
- (360) MOTION SENSOR
- (GB) GLASS BREAK

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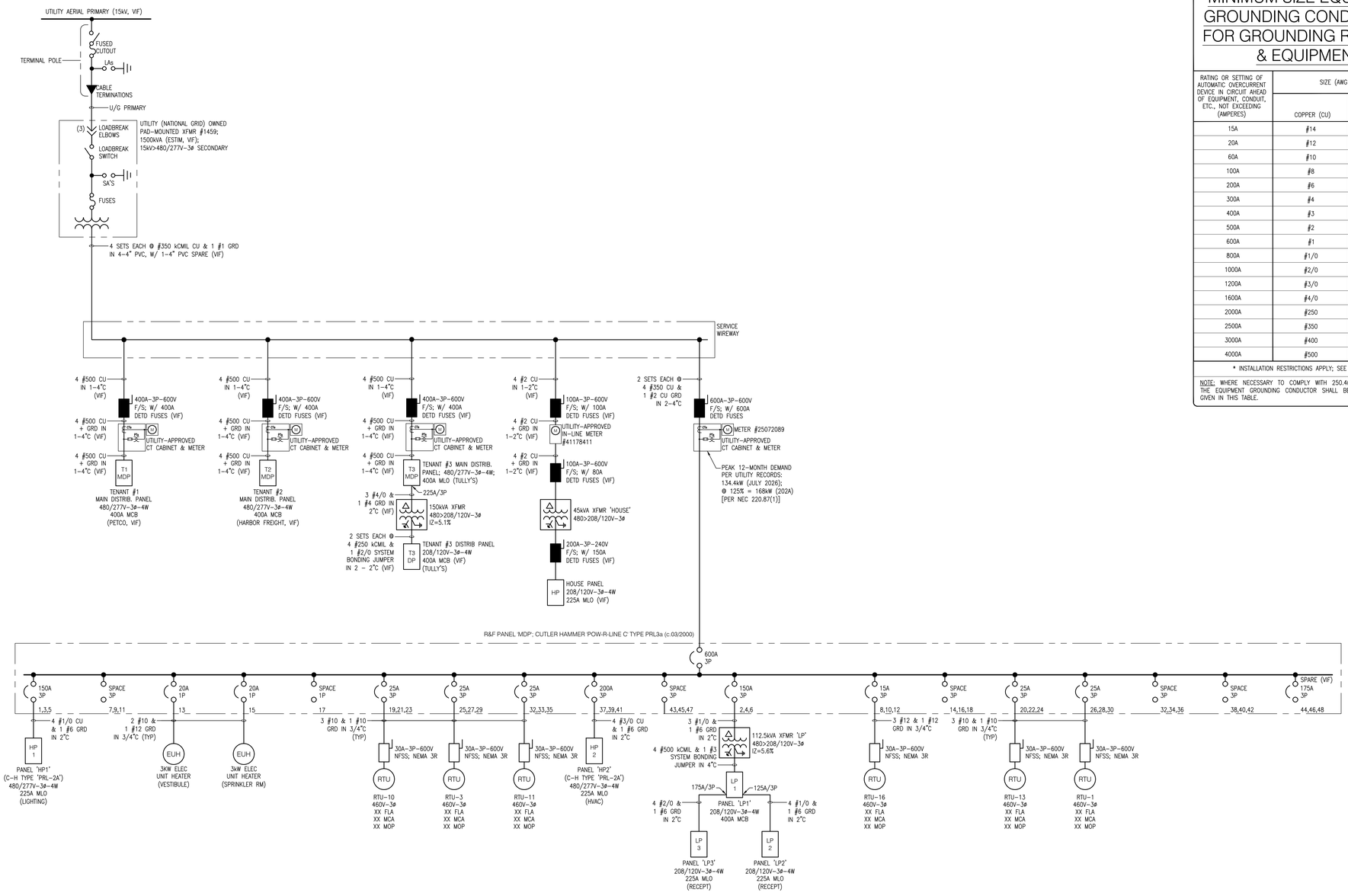
Drawing Title:

ELECTRICAL - PARTIAL LOW VOLTAGE PLAN B

Drawing Number:

E4.1

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1 / E5.0 ELECTRICAL ONE LINE DIAGRAM

SCALE: NONE

NOTES:

1. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL EQUIPMENT & WIRING SHOWN IS EXISTING TO REMAIN AS INSTALLED BY OTHERS; EC SHALL VERIFY EXACT CONFIGURATION(S) PRIOR TO BID & CONSTRUCTION.
2. VERIFY NAMEPLATE RATING OF ALL NEW & EXISTING EQUIPMENT & DEVICES (ETC) PRIOR TO CONSTRUCTION, & BEFORE ORDERING ANY BREAKERS, DISCONNECTS, CABLES (ETC) WHICH MAY BE REQUIRED FOR NEW WORK SHOWN HEREIN.
3. INCREASE CONDUCTOR SIZE SHOWN BY ONE SIZE IF DISTANCE FROM SOURCE TO LOAD EXCEEDS THE FOLLOWING (THIS APPLIES TO ALL FEEDERS AND BRANCH CIRCUITS EVEN IF DRAWINGS INDICATE A STANDARD SIZE CONDUCTOR).

VOLTS	PHASE	ONE WAY CONDUCTOR DISTANCE (IN FEET) FROM BREAKER TO LOAD
120	1	70
208	1	100
277	1	140
480	1	200
208	3	130
480	3	250

NEC TABLE 250.122 MINIMUM SIZE EQUIPMENT GROUNDING CONDUCTORS FOR GROUNDING RACEWAY & EQUIPMENT

RATING OR SETTING OF AUTOMATIC OVERCURRENT DEVICE IN CIRCUIT AHEAD OF EQUIPMENT, CONDUIT, ETC., NOT EXCEEDING (AMPERES)	SIZE (AWG OR kCMIL)	
	COPPER (CU)	ALUMINUM (AL) OR COPPER-CLAD ALUMINUM (CCA)*
15A	#14	#12
20A	#12	#10
60A	#10	#8
100A	#8	#6
200A	#6	#4
300A	#4	#2
400A	#3	#1
500A	#2	#1/0
600A	#1	#2/0
800A	#1/0	#3/0
1000A	#2/0	#4/0
1200A	#3/0	#250
1600A	#4/0	#350
2000A	#250	#400
2500A	#350	#600
3000A	#400	#600
4000A	#500	#750

* INSTALLATION RESTRICTIONS APPLY; SEE NEC 250.120

NOTE: WHERE NECESSARY TO COMPLY WITH 250.4(A)(5) OR 250.4(B)(4), THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE SIZED LARGER THAN GIVEN IN THIS TABLE.

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Drawing Title: ELECTRICAL ONE LINE DIAGRAM

Drawing Number: E5.0

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LIGHTING FIXTURE SCHEDULE

SYMBOL	TYPE	LAMPING FEATURES QTY	WATTS	SOURCE	MANUFACTURER	CATALOG NUMBER	MOUNTING	VOLTAGE	REMARKS
	A	1	48	LED	RAB	("SWISH FIELD ADJUSTABLE") SWISHFA2X4-D10	RECESSED/SUSPENDED	120/277	2x4 BASKET TROFFER, FIELD ADJUSTABLE; LED, W/ 0-10V DIMMING DRIVER; RIBBED FROSTED LENS; SELECTABLE OUTPUT SET TO 5700 LUMENS (NOMINAL) & 3500K CCT; 83 CRI; INSTALL W/ RAB FRAME KIT SMKPANEL2X4 FOR SUSPENDED APPLICATIONS
	ACM	1	48	LED	RAB	("SWISH FIELD ADJUSTABLE") SWISHFA2X4-D10-LCB	RECESSED/SUSPENDED	120/277	SAME AS TYPE 'A', WITH INTEGRAL 'LIGHTCLOUD BLUE' BLUETOOTH WIRELESS PROGRAMMABLE CONTROLLER [MIN ONE (1) PER ZONE]
	A/EM	1	48	LED	RAB	("SWISH FIELD ADJUSTABLE") SWISHFA2X4-D10-E2	RECESSED/SUSPENDED	120/277	SAME AS TYPE 'A', WITH INTEGRAL EMERGENCY BATTERY PACK (90 MIN RUNTIME) @ 1985 LUMENS (NOMINAL, @ SETTING NOTED)
	ACM/EM	1	48	LED	RAB	("SWISH FIELD ADJUSTABLE") SWISHFA2X4-D10-LCB-E2	RECESSED/SUSPENDED	120/277	SAME AS TYPE 'ACM', WITH INTEGRAL EMERGENCY BATTERY PACK (90 MIN RUNTIME) @ 1985 LUMENS (NOMINAL, @ SETTING NOTED)
	EM	2	36W	LED	SIGNIFY/CHLORIDE	SS4-4L-WL-A(6-8)RL-FIOS	SURFACE/PENDANT/WALL	120/277 (>3.6)	BLADE LIGHT WITH WHITE HOUSING; EMERGENCY BATTERY PACK; SURFACE, PENDANT OR WALL MOUNTING; 5 YEAR WARRANTY; (136LPW, NOMINAL); TEGO SWITCH; 90' CREMATORIUM PATH; PROVIDE WHERE REQUIRED, UNDISTURBED FROM DISTANCE EMERGENT FROM CLEAR HEIGHT (UON)
	X1	1	4	LED	SIGNIFY/CHLORIDE	VERWEM	WALL/CEILING	120/277	EXIT SIGNAGE UNIT; LED; MOUNTING, FACES, CHEVRONS AS INDICATED/REQUIRED PER FIELD CONDITIONS; INTEGRAL EMERGENCY BATTERY BACKUP (90 MIN RUNTIME)
	X2	2	3	LED	SIGNIFY/CHLORIDE	VLLCR(-2R)	WALL/CEILING	120/277 (>3.6)	COMBO EXIT SIGN AND EMERGENCY LIGHTING UNIT; LED; MOUNTING, FACES, CHEVRONS AS INDICATED/REQUIRED PER FIELD CONDITIONS; INTEGRAL EMERGENCY BATTERY BACKUP (90 MIN RUNTIME); W/ REMOTE CAPABILITY WHERE REQUIRED/INDICATED
	ER2	2	1W/HEAD	LED	SIGNIFY/CHLORIDE	VLL2RGO	WALL/CEILING	3.6	OUTDOOR DUAL-HEAD REMOTE EMERGENCY LIGHTING; COMPATIBLE WITH ASSOCIATED REMOTE EMERGENCY POWER SUPPLY

NOTE: ALL FIXTURES SHALL BE AS SPECIFIED OR APPROVED EQUAL; FINAL SELECTIONS, CONTROL & MOUNTING REQUIREMENTS, COLORS/FINISHES, LAMP CRI & CCT, ARE BY AUTHORIZED R&F CONSTRUCTION PROJECT MANAGER; VERIFY CONTROL LOCATIONS & REQUIREMENTS PRIOR TO BID & PURCHASE; COORDINATE INSTALL WITH AUTHORIZED R&F CONSTRUCTION PROJECT MANAGER AND R&F BMS SYSTEM CONTRACTOR PRIOR TO PURCHASE & CONSTRUCTION; ALL CONTROLS SHALL BE FULLY COMPATIBLE WITH FINAL FIXTURE & DRIVER/BALLAST SELECTIONS; EC SHALL REPORT ANY DISCREPANCIES TO THIS ENGINEER PRIOR TO BID, PURCHASE, & CONSTRUCTION.

(E) PANEL SCHEDULE "HP1"

VOLTS: 480Y/277V | AMPS: 225A M.L.O | OCPD: 150A/3P @ MDP-1,3,5 | PHASE: 3Φ | WIRE: 4W | LOCATION: MAIN ELEC ROOM | MOUNTING: SURFACE | SHORT CIRCUIT RATING: 10kAIC (VIF) | PANEL LOAD: 22.9 kVA (27.5 A)

CIR. NO.	DESCRIPTION	LOAD kVA	WIRE SIZE	CIRCUIT BKR AMPS	POLES	Φ	CIRCUIT BKR AMPS	POLES	WIRE SIZE	LOAD kVA	DESCRIPTION	CIR. NO.
1	INTERIOR LTG-SHOWROOM WEST SOUTH (COLS M-N/5-7); INCL VESTIBULE	0.960	#12	20	1	A	20	1	#12	0.288	INTERIOR LTG-SALES OFFICE (COLS J-K/7)	2
3	INTERIOR LTG-LEATHER GALLERY (COL K-N/3-4)	1.152	#12	20	1	B	20	1		2.592	INTERIOR LTG-BEDROOM S (COLS 7-11, WEST)	4
5	INTERIOR LTG-SHOWROOM WEST CENTER (COLS K-L/5-7)	0.960	#12	20	1	C	20	1			*SPARE <TURN OFF>*	6
7	INTERIOR LTG-SHOWROOM CENTER WEST SOUTH (COLS I-K/5-7)	0.960	#12	20	1	A	20	1			*SPARE <TURN OFF>*	8
9	INTERIOR LTG-SHOWROOM CENTER WEST NORTH (COLS I-K/3-5)	0.912	#12	20	1	B	20	1			*SPARE <TURN OFF>*	10
11	INTERIOR LTG-SHOWROOM NORTH CENTER (COLS G-I/2-5)	1.152	#12	20	1	C	20	1			*SPARE <TURN OFF>*	12
13	*SPARE <TURN OFF>*			20	1	A	20	1	#12	0.585	INTERIOR LTG-WAREHOUSE/RECEIVING (COLS 11-12, EAST)	14
15	INTERIOR LTG-SHOWROOM SOUTH CENTER (COLS G-I/5-7)	1.056	#12	20	1	B	20	1			*SPARE <TURN OFF>*	16
17	INTERIOR LTG-POP-UP SHOP (COLS G-H/4-5)	0.432	#12	20	1	C	20	1			*SPARE <TURN OFF>*	18
19	*SPARE <TURN OFF>*			20	1	A	20	1			*SPARE <TURN OFF>*	20
21	*SPARE <TURN OFF>*			20	1	B	20	1			*SPARE <TURN OFF>*	22
23	INTERIOR LTG-SHOWROOM CENTER NORTH (COLS F-G/2-4)	1.056	#12	20	1	C	20	1			*SPARE <TURN OFF>*	24
25	INTERIOR LTG-SHOWROOM CENTER SOUTH (COLS F-G/5-7)	1.008	#12	20	1	A	20	1			*SPARE <TURN OFF>*	26
27	INTERIOR LTG-SHOWROOM NORTHEAST CENTER (COLS C-E/2-4)	1.392	#12	20	1	B	20	1			*SPARE <TURN OFF>*	28
29	INTERIOR LTG-BIDDING GALLERY (COLS C-E/5-7)	2.016	#12	20	1	C	20	1			*SPARE <TURN OFF>*	30
31	INTERIOR LTG-DINING GALLERY (COLS A-C/1-3)	0.768	#12	20	1	A	20	1			*SPARE <TURN OFF>*	32
33	*SPARE <TURN OFF>*			20	1	B	20	1			*SPARE <TURN OFF>*	34
35	INTERIOR LTG-SHOWROOM EAST WALL (COLS A-C/3-6)	2.208	#12	20	1	C	20	1			*SPARE <TURN OFF>*	36
37	*SPARE <TURN OFF>*			20	1	A	20	1			*SPARE <TURN OFF>*	38
39	INTERIOR LTG-BEDROOM S (COLS 7-11, EAST)	2.784	#12	20	1	B	20	1			*SPARE <TURN OFF>*	40
41	*SPARE <TURN OFF>*			20	1	C	20	1	#12	0.576	INTERIOR LTG-RECLINERS (COLS F-H/1-2)	42
					A	B	C					
					4.6	9.9	8.4					

PANELBOARD NOTES:
1. THIS PANEL IS EXISTING TO REMAIN; EC SHALL TRACE ALL EXISTING CIRCUITS TO VERIFY EXACT LOADS PRIOR TO ANY DEMOLITION/CONSTRUCTION.
2. EC VERIFY EXACT REQUIREMENTS WITH OWNER FOR ALL PROPOSED EQUIPMENT & DIRECTLY WITH NAMEPLATE PRIOR TO CONSTRUCTION; PROVIDE NEW OCPD(S) AS REQUIRED-MATCH EXISTING PANEL SCCR RATING AND TYPE
3. EC SHALL PROVIDE A NEW, TYPE-WRITTEN CIRCUIT DIRECTORY FOR EACH AFFECTED PANEL, IN COMPLIANCE WITH ALL LABELING & IDENTIFICATION REQUIREMENTS OF THE NEC, INCLUDING BUT NOT LIMITED TO 408.4(A) & 700.12(F)(4).

ELECTRICAL PANEL LOAD SUMMARY - "HP1"

DESCRIPTION	CONNECTED LOAD (kVA)	MULTIPLIER	CODE LOAD (kVA)
INTERIOR LIGHTING	22.86	1.25	28.57
TOTAL kVA	22.86		28.57
TOTAL AMPS	27.5		34.4

(E) PANEL SCHEDULE "LP1"

VOLTS: 208Y/120V | AMPS: 400A MCB | OCPD: 400A MCB | PHASE: 3Φ | WIRE: 4W | LOCATION: MAIN ELEC ROOM | MOUNTING: SURFACE | SHORT CIRCUIT RATING: 10kAIC (VIF) | PANEL LOAD: 103.0 kVA (285.9 A)

CIR. NO.	DESCRIPTION	LOAD kVA	WIRE SIZE	CIRCUIT BKR AMPS	POLES	Φ	CIRCUIT BKR AMPS	POLES	WIRE SIZE	LOAD kVA	DESCRIPTION	CIR. NO.
1	RECEPTS-LEATHER GALLERY (WEST)	1.260	#12	20	1	A	20	1	#12	1.800	RECEPTS-SALES FL (COL F/3, F/4, F/6, G/3, I/5)	2
3	RECEPTS-LEATHER GALLERY (NORTHWEST)	1.260	#12	20	1	B	20	1	#12	0.900	RECEPTS-SALES FL (SW CORNER @ BED GALLERY, BOTH SIDES)	4
5	RECEPTS-LEATHER GALLERY (FEATURE WALL+COL M/6)	0.900	#12	20	1	C	20	1	#12	0.900	RECEPTS-SALES FL (WEST SOUTH @ BED GALLERY, BOTH SIDES)	6
7	RECEPTS-LEATHER GALLERY (SOUTHEAST)	1.260	#12	20	1	A	20	1	#12	0.900	RECEPTS-SALES FL (NW CORNER @ BED GALLERY, BOTH SIDES)	8
9	RECEPTS-WEST SALES FL (@ LEATHER GALLERY WALL + COL M/6)	1.080	#12	20	1	B	20	1	#12	1.080	RECEPTS-SALES FL (WEST NORTH @ BED GALLERY, BOTH SIDES); NE FL BOX	10
11	RECEPTS-WEST SALES FL (@ ENTRY FEATURE WALL+ COLS K/6, L/6)	1.800	#12	20	1	C	20	1	#12	0.900	RECEPTS-SALES FL (SE CORNER @ POP UP SHOP, BOTH SIDES)	12
13	RECEPTS-SALES FL (SOUTH WALL, WEST OF SALES OFFICE + SPRINKLER RM	1.260	#12	20	1	A	20	1	#12	0.540	RECEPTS-SALES FL (COL G/6), SE FLOOR BOX	14
15	RECEPTS-SALES FL (WEST FLOOR BOX, SOUTH)	0.360	#12	20	1	B	20	1	#12	0.900	RECEPTS-SALES FL (SOUTH WALL, WEST OF BED GALLERY)	16
17	RECEPTS-SALES FL (SOUTH WALL, EAST OF SALES OFFICE)	0.900	#12	20	1	C	20	1	#12	1.440	RECEPTS-SALES FL (SW CORNER @ POP UP SHOP, BOTH SIDES; COL H/6)	18
19	RECEPTS-SALES FL (COL K/6)	0.360	#12	20	1	A	20	1	#12	0.720	RECEPTS-SALES FL (NW CORNER @ POP UP SHOP, BOTH SIDES)	20
21	RECEPTS-SALES FL (COL J/4, J/5)	0.720	#12	20	1	B	20	1	#12	1.200	(E) EXT BUILDING SIGNAGE	2
23	RECEPTS-LEATHER GALLERY (NORTHEAST), SALES FL SOUTH (NORTH WALL	1.800	#12	20	1	C	20	1	#12	1.200	(E) EXT BULDING SIGNAGE	24
25	RECEPTS-SALES FL (WEST FLOOR BOX, NORTH, COL I/4)	0.360	#12	20	1	A	20	1	#12	1.200	(E) EXT BULDING SIGNAGE	26
27	RECEPTS-SALES FL WALLS @ COL G/4 & POP-UP SHOP NORTH EAST	1.080	#12	20	1	B	20	1	#12	1.200	(E) EXT BULDING SIGNAGE	28
29	RECEPTS- IMMERSIVE GALLERY (EAST WALL), RECLINERS (WEST WALL)	1.440	#12	20	1	C	20	1	#12	1.440	RECEPTS-FLOOR BOXES AT RECLINERS (BTW COL F-H/1-2)	30
31	RECEPTS- IMMERSIVE GALLERY (NORTH WALL), RECLINERS (NORTH WALL)	1.620	#12	20	1	A	20	1	#12	0.720	RECEPT - SALES OFFICE DESK @ NORTHWEST	32
33	RECEPTS-SALES FL (COL H/3), IMMERSIVE GALLERY (SOUTH WALL)	0.720	#12	20	1	B	20	1	#12	0.720	RECEPT - SALES OFFICE DESK @ NORTHEAST & SOUTHEAST	34
35	RECEPTS- IMMERSIVE GALLERY (WEST WALL)	1.260	#12	20	1	C	20	1	#12	0.720	RECEPT - SALES OFFICE DESK @ SOUTH CENTER	36
37	(E) PANEL "LP-3"	8.942	#2/0	175	3	A	125	3	#1/0	13.500	(E) PANEL "LP-2"	38
39	▼	7.600	▼	▼	▼	B	▼	▼	▼	12.780	▼	40
41	▼	10.042	▼	▼	▼	C	▼	▼	▼	11.520	▼	42
						A	B	C				
						35.1	31.6	36.3				

PANELBOARD NOTES:
1. THIS PANEL IS EXISTING TO REMAIN; EC SHALL TRACE ALL EXISTING CIRCUITS TO VERIFY EXACT LOADS PRIOR TO ANY DEMOLITION/CONSTRUCTION.
2. EC VERIFY EXACT REQUIREMENTS WITH OWNER FOR ALL PROPOSED EQUIPMENT & DIRECTLY WITH NAMEPLATE PRIOR TO CONSTRUCTION; PROVIDE NEW OCPD(S) AS REQUIRED-MATCH EXISTING PANEL SCCR RATING AND TYPE
3. EC SHALL PROVIDE A NEW, TYPE-WRITTEN CIRCUIT DIRECTORY FOR EACH AFFECTED PANEL, IN COMPLIANCE WITH ALL LABELING & IDENTIFICATION REQUIREMENTS OF THE NEC, INCLUDING BUT NOT LIMITED TO 408.4(A) & 700.12(F)(4).

ELECTRICAL PANEL LOAD SUMMARY - "LP1"

DESCRIPTION	CONNECTED LOAD (kVA)	MULTIPLIER	CODE LOAD (kVA)
RECEPTS (PER NEC 220.44)	98.20		54.10
SIGNS	4.80	1.25	6.00
TOTAL kVA	103.00		60.10
TOTAL AMPS	285.9		166.8

(E) PANEL SCHEDULE "LP2"

VOLTS: 208Y/120V | AMPS: 225A M.L.O | OCPD: 125A/3P @ LP1-38,40,42 | PHASE: 3Φ | WIRE: 4W | LOCATION: MAIN ELEC ROOM | MOUNTING: SURFACE | SHORT CIRCUIT RATING: 10kAIC (VIF) | PANEL LOAD: 37.8 kVA (104.9 A)

CIR. NO.	DESCRIPTION	LOAD kVA	WIRE SIZE	CIRCUIT BKR AMPS	POLES	Φ	CIRCUIT BKR AMPS	POLES	WIRE SIZE	LOAD kVA	DESCRIPTION	CIR. NO.
1	RECEPTS-SALES FL (WALL @ ASSOC LOUNGE, RM S OFFICE; COL D/2, E/2)	1.260	#12	20	1	A	20	1	#12	0.900	RECEPTS-SALES FL (NE CORNER @ BED GALLERY, BOTH SIDES)	2
3	RECEPTS-SALES FL (WALL @ RECLINING, COLS F-G/2)	1.260	#12	20	1	B	20	1	#12	1.440	RECEPTS-SALES FL (BED GALLERY, NORTH PARTITIONS)	4
5	RECEPTS-SALES FL (COL E/3)	0.360	#12	20	1	C	20	1	#12	0.900	RECEPTS-SALES FL (NW CORNER @ BED GALLERY, BOTH SIDES)	6
7	RECEPT - SALES OFFICE DESK @ SOUTHWEST	0.540	#12	20	1	A	20	1	#12	1.080	RECEPTS-SALES FL (BED GALLERY, DISPLAY WALL & CENTER PARTITION)	8
9	RECEPTS- RMS OFFICE	0.900	#12	20	1	B	20	1	#12	0.720	RECEPTS-SALES FL (BED GALLERY, CENTER SOUTH PARTITION)	10
11	RECEPTS-SALES FL (S & W WALLS @ DINING GALLERY, BOTH SIDES)	1.800	#12	20	1	C	20	1	#12	0.540	(E) RECEPTS-ASSOC LOUNGE (NE CORNER)	12
13	RECEPTS-SALES FL (N & NE WALLS @ DINING GALLERY)	1.260	#12	20	1	A	20	1	#12	0.540	(E) RECEPTS-ASSOC LOUNGE (VENDING SOUTH)	14
15	RECEPTS-SALES FL (E & SE WALLS @ DINING GALLERY, BOTH SIDES)	1.620	#12	20	1	B	20	1	#12	0.540	(E) RECEPTS-ASSOC LOUNGE (VENDING NORTH)	16
17	RECEPT - SALES OFFICE 'UP STATION' QUAD (NORTH)	0.360	#12	20	1	C	20	1	#12	0.540	(E) RECEPTS-ASSOC LOUNGE	18
19	RECEPT - SALES OFFICE 'UP STATION' QUAD (SOUTH)	0.360	#12	20	1	A	20	1	#12	1.440	RECEPTS-SALES FL (BED GALLERY, SOUTH PARTITIONS)	20
21	RECEPTS-SALES FL (NW CORNER @ BED GALLERY, BOTH SIDES)	0.900	#12	20	1	B	20	1	#12	1.080	RECEPTS-SALES FL (MASTER BR, WEST PARTITION @ CENTER, BOTH SIDES)	22
23	RECEPTS-SALES FL (EAST NORTH @ BED GALLERY, BOTH SIDES)	1.080	#12	20	1	C	20	1	#12	0.360	RECEPTS-SALES FL (MASTER BR, EAST WALL NORTH)	24
25	RECEPTS-SALES FL, EAST WALL @ CENTER; COL B/4, B/5)	1.620	#12	20	1	A	20	1	#12	1.080	RECEPTS-SALES FL (MASTER BR, EAST WALL CENTER NORTH)	26
27	RECEPTS-SALES FL (EAST SOUTH @ BED GALLERY, BOTH SIDES)	0.720	#12	20	1	B	20	1	#12	1.080	RECEPTS-SALES FL (MASTER BR, NE CORNER)	28
29	RECEPTS-SALES FL, EAST WALL @ SOUTH; COL B/6)	1.260	#12	20	1	C	20	1	#12	0.900	RECEPTS-SALES FL (MASTER BR, NORTH WALL & W PARTITION @ N WALL)	30
31	RECEPTS-SALES FL (SE CORNER @ BED GALLERY)	0.900	#12	20	1	A	20	1	#12	1.080	RECEPTS-SALES FL (MASTER BR, WEST PARTITION @ SOUTH, BOTH SIDES)	32
33	RECEPTS-SALES FL (BED GALLERY, CENTER NORTH PARTITION)	0.720	#12	20	1	B	20	1	#12	1.260	RECEPTS-SALES FL (MASTER BR, NW CORNER)	34
35	RECEPTS-SALES FL (SW CORNER @ BED GALLERY)	0.720	#12	20	1	C	20	1	#12	1.260	RECEPTS-SALES FL (MASTER BR, WEST WALL CENTER NORTH)	36
37	*SPARE <TURN OFF>*			20	1	A	20	1	#12	1.440	RECEPTS-SALES FL (MASTER BR, CTR+EAST PARTITIONS@S, BOTH SIDES)	38
39	*SPARE <TURN OFF>*			20	1	B	20	1	#12	0.540	RECEPTS-ASSOC LOUNGE (COUNTERTOP, SOUTH WALL)	40
41	*SPARE <TURN OFF>*			20	1	C	20	1	#12	1.440	RECEPTS-SALES FL (MASTER BR, SW PARTITIONS, ALL SIDES)	42
					A	B	C					
					13.5	12.8	11.5					

PANELBOARD NOTES:
1. THIS PANEL IS EXISTING TO REMAIN; EC SHALL TRACE ALL EXISTING CIRCUITS TO VERIFY EXACT LOADS PRIOR TO ANY DEMOLITION/CONSTRUCTION.
2. EC VERIFY EXACT REQUIREMENTS WITH OWNER FOR ALL PROPOSED EQUIPMENT & DIRECTLY WITH NAMEPLATE PRIOR TO CONSTRUCTION; PROVIDE NEW OCPD(S) AS REQUIRED-MATCH EXISTING PANEL SCCR RATING AND TYPE
3. EC SHALL PROVIDE A NEW, TYPE-WRITTEN CIRCUIT DIRECTORY FOR EACH AFFECTED PANEL, IN COMPLIANCE WITH ALL LABELING & IDENTIFICATION REQUIREMENTS OF THE NEC, INCLUDING BUT NOT LIMITED TO 408.4(A) & 700.12(F)(4).

ELECTRICAL PANEL LOAD SUMMARY - "LP2"

DESCRIPTION	CONNECTED LOAD (kVA)	MULTIPLIER	CODE LOAD (kVA)
RECEPTS (PER NEC 220.44)	37.80		23.90
TOTAL kVA	37.80		23.90
TOTAL AMPS	104.9		66.3

(E) PANEL SCHEDULE "LP3"

VOLTS: 208Y/120V | AMPS: 225A M.L.O | OCPD: 175A/3P @ LP1-38,40,42 | PHASE: 3Φ | WIRE: 4W | LOCATION: MAIN ELEC ROOM | MOUNTING: SURFACE | SHORT CIRCUIT RATING: 10kAIC (VIF) | PANEL LOAD: 26.6 kVA (73.8 A)

CIR. NO.	DESCRIPTION	LOAD kVA	WIRE SIZE	CIRCUIT BKR AMPS	POLES	Φ	CIRCUIT BKR AMPS	POLES	WIRE SIZE	LOAD kVA	DESCRIPTION	CIR. NO.
1	RECEPTS-SALES FL (MASTER BR, WEST PARTITION @ NORTH, BOTH SIDES)	1.800	#12	20	1	A	20	1	#12	0.100	(E) RECEPTACLE CONTACTOR CONTROL POWER	2
3	RECEPTS-SALES FL (MASTER BR, CTR PARTITION @ NORTH, BOTH SIDES)	1.800	#12	20	1	B	15	2			*SPARE <TURN OFF> (VIF)*	4
5	RECEPTS-SALES FL (MASTER BR, CTR PARTITION @ CTR, BOTH SIDES)	1.800	#12	20	1	C	▼	▼			▼	6
7	RECEPTS-SALES FL (MASTER BR, EAST PARTITION @ NORTH, BOTH SIDES)	1.800	#12	20	1	A	20	1			INT SIGNAGE -	8
9	RECEPTS-SALES FL (MASTER BR, WEST WALL CENTER SOUTH)	1.080	#12	20	1	B	20	1			INT SIGNAGE -	10
11	RECEPTS-SALES FL (MASTER BR, WEST WALL SOUTH EAST)	1.080	#12	20	1	C	30	2	#10	1.654	HVAC - SALES OFFICE HEAT PUMP (HP-1/AHU-1)	12
13	(E) GAS UNIT HEATER - RECEIVING	0.168	#12	20	1	A	▼	▼	▼	1.654	▼	14
15	(E) RECEPTS- ROOFTOP GFI @ RTU 1,3,14-17	1.080	#12	20	1	B	30	2			*SPARE <TURN OFF>*	16
17	(E) RECEPTS- ROOFTOP GFI @ RTU 2,5,6,7,9	0.900	#12	20	1	C	▼	▼			▼	18
19	(E) RECEPTS- ROOFTOP GFI @ RTU 4,8,10-13	1.080	#12	20	1	A	20	1	#12	0.900	RECEPTS-SALES FL (MASTER BR, EAST WALL SOUTH)	20
21	(E) RECEPTS- MENS & WOMENS TOILET ROOMS	0.540	#12	20	1	B	20	1	#12	0.180	HVAC - CONDENSATE PUMP @ SALES OFFICE (FOR AHU)	22
23	(E) EXHAUST FANS - MENS & WOMENS TOILET ROOMS	0.288	#12	20	1	C	20	1	#12	0.180	RECEPTACLE - WP, GFI @ HP-1	24
25	RECEPTS-SALES FL (MASTER BR, EAST WALL CENTER SOUTH)	0.900	#12	20	1	A	20	1			*SPARE <TURN OFF>*	26
27	(E) RECEPT - GFI @ DRINKING FOUNTAIN COOLER; (N) GFI @ JAN CLOSET	0.680	#12	20	1	B	20	1	#12	1.200	(E) HAND DRYER - MENS TOILET ROOM	28
29	(E) FIRE ALARM SYSTEM - NAC PANEL (NEAR MASTER BEDROOM ENTRY)*	0.500	#12	20	1	C	20	1	#12	1.200	(E) HAND DRYER - WOMENS TOILET ROOM	30
31	RECEPTS-SALES FL (MASTER BR, WEST WALL SOUTH)			20	1	A	20	1			(E) RECEPTS - MAIN ELEC ROOM @ PANEL	32
33	(E) FIRE ALARM SYSTEM - FIRE ALARM CONTROL PANEL (MAIN ELEC ROOM)*	0.500	#12	20	1	B	20	1			(E) RECEPTS - MAIN ELEC ROOM @ PANEL	34
35	RECEPTS-SALES FL (MASTER BR, SOUTH WALL WEST)	1.440	#12	20	1	C	20	1			(E) RECEPTS	36
37	(E) RECEPTS - RECEIVING (SPLIT YOKE @ NORTH WALL)	0.540	#12	20	1	A	20	1			(E) RECEPTS - MAIN ELEC ROOM @ T/D BACK BOARD	38
39	(E) RECEPTS - RECEIVING (SPLIT YOKE @ NORTH WALL)	0.540	#12	20	1	B	20	1			(E) RECEPTS - MAIN ELEC ROOM @ T/D BACK BOARD	40
41	(E) EXTERIOR LIGHTING - WALL SCONCES	1.000	#12	20	1	C	20	1			(E) RECEPTS - MAIN ELEC ROOM @ MUZAK SYSTEM	42
					A	B	C					
					8.9	7.6	10.0					

* PROVIDE RED LOCKING DEVICE ON CIRCUIT BREAKER

PANELBOARD NOTES:
1. THIS PANEL IS EXISTING TO REMAIN; EC SHALL TRACE ALL EXISTING CIRCUITS TO VERIFY EXACT LOADS PRIOR TO ANY DEMOLITION/CONSTRUCTION.
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3. EC SHALL PROVIDE A NEW, TYPE-WRITTEN CIRCUIT DIRECTORY FOR EACH AFFECTED PANEL, IN COMPLIANCE WITH ALL LABELING & IDENTIFICATION REQUIREMENTS OF THE NEC, INCLUDING BUT NOT LIMITED TO 408.4(A) & 700.12(F)(4).

ELECTRICAL PANEL LOAD SUMMARY - "LP3"

DESCRIPTION	CONNECTED LOAD (kVA)	MULTIPLIER	CODE LOAD (kVA)
EXTERIOR LIGHTING	1.00	1.25	1.25
A/R CONDITIONING	3.31	1.00	3.31
VENTILATION	0.46	1.25	0.57
RECEPTS (PER NEC 220.44)	20.64		15.32
MISCELLANEOUS LOADS @100% (MOTORS, SPECIFIC APPLIANCES, ETC.)	1.18	1.00	1.18
TOTAL kVA	26.58		21.63
TOTAL AMPS	73.8		60.0

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Peter J Bonnes 10/09/2026

PETER J. BONNES, P.E.
LICENSE #077635
EXPIRES 04/30/2029

Client:

RAYMOUR & FLANIGAN FURNITURE
P.O. Box 220, 7248 Morgan Rd.
Liverpool, NY 13088

Project Name:

Interior Renovations to the Raymour & Flanigan Furniture Showroom located at
1459 Niagara Falls Blvd., Amherst, NY 14228

Plan North | True North

Issue / Revisions:

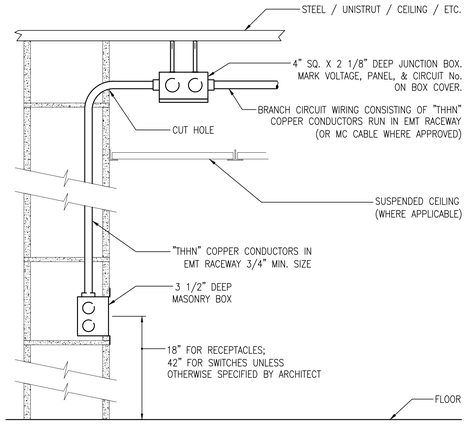
#	Date	Description
0	10.09.26	Issued for Permit

Drawn By: RCK
Chk'd By: PJB
Date: 10.09.2026
Scale: As Noted
Project Number: RFF 26111

Drawing Title: ELECTRICAL SCHEDULES

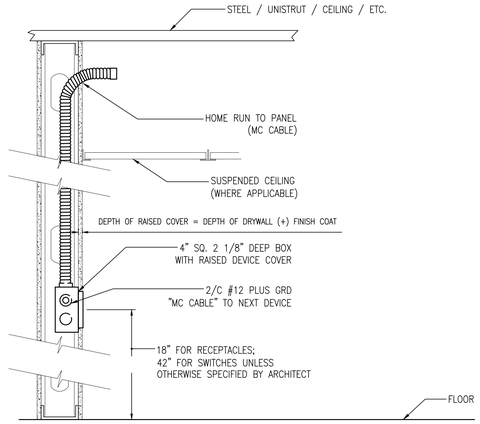
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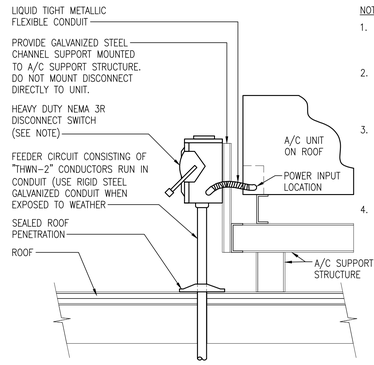
120-277V DEVICE INSTALLATION IN HOLLOW MASONRY WALLS

1 / E6.0 SCALE: NONE



120V DEVICE INSTALLATION IN HOLLOW PARTITIONS

2 / E6.0 SCALE: NONE

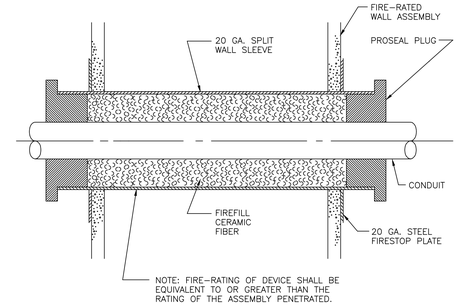


NOTES:

1. PROVIDE DISCONNECT SWITCHES FOR ALL HVAC EQUIPMENT UNLESS DISCONNECT IS FACTORY INSTALLED.
2. PROVIDE FUSED DISCONNECT SWITCH IF NAMEPLATE CALLS FOR FUSES OR HACR BREAKER AND HACR BREAKER IS NOT AVAILABLE IN REQUIRED AMPERE RATING.
3. VERIFY NAME PLATE ELECTRICAL REQUIREMENTS AND RATINGS ON ALL HVAC EQUIPMENT IN FIELD PRIOR TO INSTALLATION OF ASSOCIATED POWER FEEDERS, OVERCURRENT DEVICES, AND SWITCHES.
4. PROVIDE AND INSTALL DUCT DETECTORS, INCLUDING SMOKE DETECTOR HOUSING, SAMPLING TUBES, AND REMOTE LAMP INDICATORS FOR ALL HVAC UNITS. PROVIDE CONTROL WIRING FROM DETECTOR TO HVAC CONTROL FOR UNIT SHUT DOWN UPON ACTIVATION OF DETECTOR. PROVIDE WIRING FROM DETECTOR TO FIRE ALARM CONTROL PANEL TO PROVIDE A SUPERVISORY SIGNAL TO FIRE ALARM SYSTEM UPON ACTIVATION.

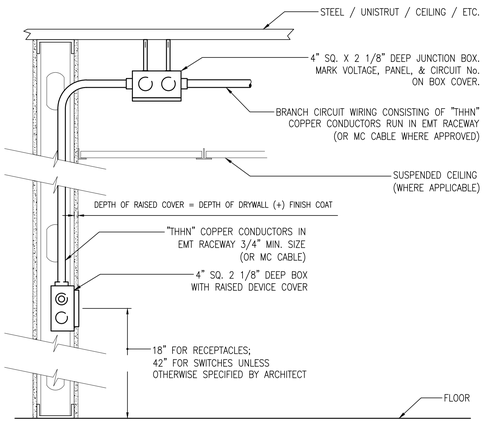
HVAC EQUIPMENT INSTALLATION ON ROOF

3 / E6.0 SCALE: NONE



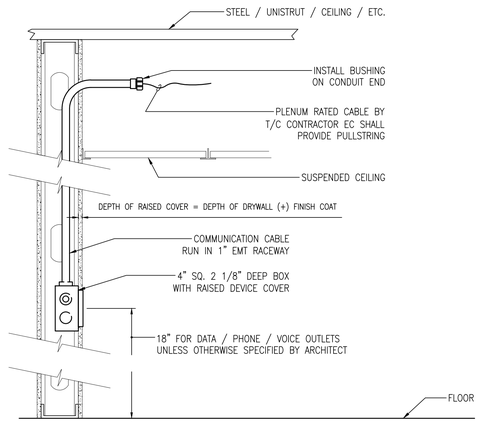
TYPICAL CONDUIT THROUGH FIRE-RATED WALL DETAIL

4 / E6.0 SCALE: NONE



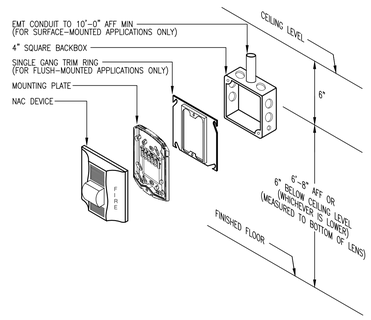
120-277V DEVICE INSTALLATION IN HOLLOW PARTITIONS

5 / E6.0 SCALE: NONE



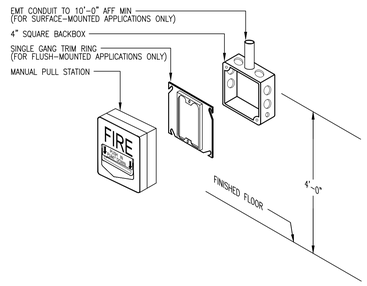
VOICE-T/D OUTLET INSTALLATION IN HOLLOW PARTITIONS

6 / E6.0 SCALE: NONE



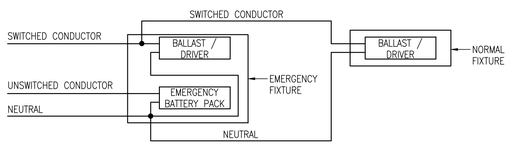
WALL MOUNT NAC DEVICE MOUNTING DETAIL

7 / E6.0 SCALE: NONE



MANUAL PULL STATION MOUNTING DETAIL

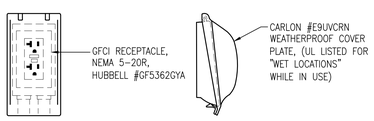
8 / E6.0 SCALE: NONE



TYPICAL EMERGENCY FIXTURE WIRING DIAGRAM*

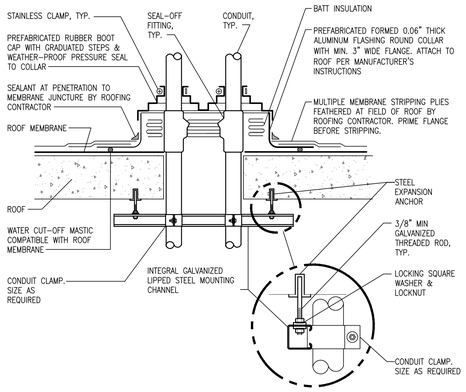
9 / E6.0 SCALE: NONE

* VERIFY EXACT WIRING REQUIREMENTS WITH FIXTURE MANUFACTURER



EXTERIOR WEATHERPROOF RECEPTACLE

10 / E6.0 SCALE: NONE



TYPICAL ROOF PENETRATION DETAIL

11 / E6.0 SCALE: NONE

NOTES:

1. MAINTAIN A MINIMUM CLEARANCE OF 12" [308mm] ON ALL SIDES OF ROOF PENETRATION FROM WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.
2. FLANGES OF ADJACENT FLASHINGS SHALL NOT BE CUT OR OVERLAPPED.
3. VERIFY ROOF & STRUCTURAL SYSTEM WITH ARCHITECT & STRUCTURAL ENGINEER.
4. COORDINATE FLASHING INSTALLATION WITH ROOFING CONTRACTOR TO ENSURE PROPER METHODS & MATERIALS ARE USED TO MAINTAIN ROOF WARRANTY.

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Peter J Bonnes 10/09/2026

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EXPIRES 04/30/2029

Client:

RAYMOUR & Flanigan FURNITURE
P.O. Box 220, 7248 Morgan Rd.
Liverpool, NY 13088

Project Name:

Interior Renovations to the Raymour & Flanigan Furniture Showroom located at 1459 Niagara Falls Blvd., Amherst, NY 14228

Plan North · True North

Issue / Revisions:

#	Date	Description
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Drawing Title: ELECTRICAL DETAILS

Drawing Number: E7.0

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ELECTRICAL SPECIFICATIONS

A. SCOPE OF WORK

1. ALL CONTRACTORS, INCLUDING GC, SHALL COORDINATE DIRECTLY WITH R&F CM ON EXACT SCOPE OF WORK AND REQUIREMENTS (INCLUDING SEQUENCING & SCHEDULING) PRIOR TO BID AND CONSTRUCTION, AS WELL AS ANY PURCHASE, NO EXCEPTIONS.

2. EXISTING CONDITION INFORMATION MUST BE FIELD VERIFIED. CONTRACTORS ARE RESPONSIBLE FOR FIELD VERIFYING THESE CONDITIONS DURING THE BIDDING PROCESS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF TTHEIR ENGINEER & THE R&F CM IN WRITING, IMMEDIATELY & PRIOR TO BID, PURCHASE, & CONSTRUCTION.

3. CONTRACTORS SHALL FURNISH ALL LABOR AND MATERIAL TO COMPLETE ALL WORK SHOWN ON THE DRAWINGS, SPECIFIED HEREIN, OR REQUIRED TO COMPLETE THE CONSTRUCTION SCOPE OF WORK AS SHOWN AND INTENDED.

4. THE LISTING OF ARTICLE OR MATERIAL, OPERATION OR METHOD, REQUIRES THAT THE CONTRACTOR SHALL PROVIDE AND INSTALL, UNLESS NOTED TO BE SUPPLIED BY OTHERS, EACH ITEM LISTED OF QUALITY OR SUBJECT TO QUALIFICATION NOTED. EACH OPERATION SHALL BE PERFORMED ACCORDING TO CODE REQUIREMENTS, INDUSTRY STANDARDS & BEST PRACTICES, MANUFACTURER'S INSTRUCTIONS, FIELD CONDITIONS, & STATED INTENTS, THEREFORE PROVIDING ALL NECESSARY LABOR, DEVICES, EQUIPMENT, APPURTENANCES AND INCIDENTALS NECESSARY FOR COMPLETING THE OBJECTIVES OUTLINED HEREIN & REQUIRED.

5. THE ELECTRICAL CONTRACTOR SHALL SCHEDULE THEIR WORK TO CONFORM TO THE PROGRESS OF THE OTHER TRADES AND CONTRACTORS EMPLOYED ON TTHEIR PROJECT. THE PRINCIPAL ITEMS OF WORK INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

   A. RECEIVE, INVENTORY, SECURELY STORE, AND INSTALL ANY/ALL DEVICES AND EQUIPMENT FURNISHED BY RAYMOUR AND FLANIGAN, INCLUDING (BUT NOT LIMITED TO) LIGHTING FIXTURES, LIGHTING CONTROL DEVICES, EXIT SIGNAGE, EMERGENCY LIGHTING, AND ALL OTHER FURNISHED ACCESSORIES & APPURTENANCES. COORDINATE DEVICES & QUANTITIES DIRECTLY WITH R7f CONSTRUCTION MANAGER & GC.

   B. PROVIDE DEVICES (RECEPTACLES, SWITCHES, ETC.) AS SHOWN ON DRAWINGS. TTHEIR SHALL INCLUDE ALL ASSOCIATED BRANCH CIRCUIT WIRING AND MATERIAL REQUIRED FOR A COMPLETE INSTALLATION.

   C. POWER FEEDERS TO HVAC EQUIPMENT INCLUDING CONDENSING UNITS, AIR HANDLING UNITS, EXHAUST FANS, INCLUDING DISCONNECT SWITCHES, CONTROL DEVICES, STARTERS FOR MOTORS NOT PROVIDED BY OTHERS. (CONSULT HVAC CONTRACTOR FOR PHASE AND VOLTAGE OF EQUIPMENT AND ACTUAL NAMEPLATE RATINGS FOR FEEDER MINIMUM CONDUCTOR AMPACITIES (MCA) AND MAXIMUM OVER CURRENT PROTECTION DEVICES (MOCP) INFORMATION PRIOR TO INSTALLATION AND PRIOR TO PURCHASING ELECTRICAL EQUIPMENT.

   D. PROVIDE POWER DISTRIBUTION EQUIPMENT (TRANSFORMERS, PANELBOARDS, DISCONNECT SWITCHES, CONTACTORS, MOTOR STARTERS, ENCLOSED CIRCUIT BREAKERS ETC.) AS SHOWN ON DRAWINGS OR AS REQUIRED FOR TTHEIR PROJECT. TTHEIR SHALL INCLUDE ALL WIRING AND ASSOCIATED MATERIAL REQUIRED FOR A COMPLETE INSTALLATION.

   E. PROVIDE MODIFICATIONS/ADDITIONS TO EXISTING FIRE ALARM SYSTEM, INCLUDING BUT NOT LIMITED TO PULLSTATIONS, A/V DEVICES, MONITORING & CONTROL DEVICES, SMOKE DETECTORS, POWER SUPPLIES, DUCT DETECTORS WITH REMOTE APPUTENANCES, FIRE ALARM CONTROL PANEL, FIRE ALARM ANNUNCIATOR PANEL AND ALL ASSOCIATED WIRING, RACEWAYS, CONNECTIONS, INTERPOSING RELAYS, INSPECTIONS, AND TESTING AS PER DRAWINGS AND AS REQUIRED BY THE LOCAL FIRE MARSHAL.

   F. PROVIDE TESTING OF ALL ELECTRICAL EQUIPMENT, INCLUDING MEGGER TESTS FOR PANEL/TRANSFORMER FEEDERS, INSULATION RESISTANCE TESTS FOR PANELS, & EARTH RESISTANCE TESTING FOR ADEQUATE GROUNDING.

   G. PROVIDE TIMERS, PHOTOCELLS, AND CONTACTORS FOR CONTROL OF EXTERIOR LIGHTING AND HVAC EQUIPMENT.

   H. PROVIDE POWER FEEDER TO PLUMBING EQUIPMENT INCLUDING WATER HEATERS, ELECTRONIC FAUCETS, URINALS, WATER CLOSETS, RECIRCULATION PUMPS, ETC. INCLUDING DISCONNECT SWITCHES (CONSULT PLUMBING CONTRACTOR).

   I. PROVIDE BACKBOXES, PULL STRING, AND CONDUIT TO ABOVE ACCESSIBLE CEILING FOR ALL VOICE AND COMMUNICATIONS OUTLETS.

   J. PROVIDE BACKBOXES AND CONDUIT TO ABOVE ACCESSIBLE CEILING OR TO CEILING LEVEL FOR EXPOSED CEILING SYSTEMS FOR ALL EXISTING &/OR RELOCATED THERMOSTATS & HVAC CONTROLS, AND NEW SHOWN ON MECHANICAL DRAWINGS.

   K. PROVIDE CONDUIT, JUNCTION BOXES, 120 VOLT FEEDERS, BACKBOXES, ETC. AS REQUIRED FOR SECURITY SYSTEM CAMERAS, ELECTRICAL DOOR STRIKES, ALARMS, REQUEST TO EXIT, MOTION SENSORS, CARD READERS, KEYPADS AND MAIN SECURITY PANEL AS PER DRAWINGS OR AS DIRECTED BY OWNER OR ARCHITECT. VERIFY EXACT SCOPE & EXTENT OF WORK PRIOR TO SUBMITTING BID.

   L. PROVIDE EMERGENCY LIGHTING, BATTERY UNITS, REMOTE HEADS, EXIT LIGHTS, AND ALL ASSOCIATED WIRING, CONDUIT, JUNCTION BOXES, CONNECTIONS, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION.

   M. WHERE NOT PRESENT, PROVIDE A SURGE PROTECTIVE DEVICE (SPD) FOR SERVICE PANEL AND PROVIDE SURGE PROTECTION DEVICES FOR COMMUNICATIONS EQUIPMENT.

   N. PROVIDE DEMOLITION OF PANELS, LIGHTS, RECEPTACLES, DEVICES, SWITCHES, DISCONNECTS, TRANSFORMERS, CONTACTORS, STARTERS, WIRING, CONDUIT, JUNCTION BOXES, ETC. PER DRAWINGS AND/OR AS REQUIRED TO CLEAR PROJECT AREA FOR NEW CONSTRUCTION.

   P. PRIOR DEMOLITION, THE EC SHALL TRACE <u>ALL</u> EXISTING BRANCH CIRCUITS OF PANELBOARDS AFFECTED BY TTHEIR SCOPE OF WORK SO AS TO PROVIDE A NEW, TYPE-WRITTEN CIRCUIT DIRECTORY IN COMPLIANCE WITH THE REQUIREMENTS OF NEC 408.4(A) UPON COMPLETION OF CONSTRUCTION ACTIVITIES. EACH AFFECTED PANELBOARD'S NEW CIRCUIT DIRECTORY SHALL CLEARLY IDENTIFY ALL EXISTING OR NEW BRANCH CIRCUIT; TTHEIR INCLUDES THOSE WHICH FEED EXISTING OR NEW EXIT AND EMERGENCY LIGHTING, WHICH SHALL BE IDENTIFIED AS SUCH IN COMPLIANCE WITH THE REQUIREMENTS OF NEC 700.12(F)(4).

B. INSTALLATION

1. TTHEIR CONTRACTOR SHALL VISIT THE JOB SITE TO DETERMINE PRESENT CONDITIONS AND VERIFY EXACT LOCATION OF EQUIPMENT AND LOCAL REGULATIONS PRIOR TO SUBMITTING BID.

2. TTHEIR CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF EXISTING WALLS CEILINGS AND FLOOR SLABS NECESSARY FOR THE COMPLETION OF THEIR WORK.

3. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL WORK AND MATERIAL SHOWN SHALL BE PERFORMED, FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

4. THE COMPLETE INSTALLATION SHALL BE DONE IN STRICT ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND CITY CODES, RULES, REGULATIONS AND ORDINANCES.

5. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUBMITTING APPLICATIONS AND PAYING ALL FEES IN CONNECTION WITH ANY PERMITS, TESTS AND INSPECTIONS THAT MAY BE REQUIRED.

6. GUARANTEE ALL WORKMANSHIP, MATERIAL AND PERFORMANCE FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE.

7. THE EXACT MOUNTING LOCATIONS OF APPARATUS, DEVICES, EQUIPMENT AND CONDUITS SHALL BE ASCERTAINED FROM OWNER OR THEIR REPRESENTATIVE IN THE FIELD, AND THE WORK SHALL BE LAID OUT ACCORDINGLY. SHOULD THE CONTRACTOR FAIL TO ASCERTAIN SUCH LOCATIONS, THE WORK SHALL BE CHANGED AT THEIR OWN EXPENSE WHEN SO ORDERED BY OWNER. THE OWNER RESERVES THE RIGHT TO MAKE MINOR CHANGES IN THE LOCATION OF CABLE, CONDUIT AND EQUIPMENT INSTALLED BY TTHEIR CONTRACTOR UP TO THE TIME OF INSTALLATION, WITHOUT ADDITIONAL COST.

8. ALL CONDUCTORS SHALL BE COPPER, THHN INSULATION UNLESS OTHERWISE NOTED. ALL WIRING SHALL BE IN EMT OR MC CABLE RUN CONCEALED IN FINISHED AREAS AND NOT SUBJECT TO PHYSICAL DAMAGE. RUN EMT IN UNFINISHED CEILING AREAS. RUN ALL CONDUIT CONCEALED IN BLOCK WALLS AND RECESS ALL DEVICES IN BLOCK WALLS TO THE EXTENT POSSIBLE AND/OR PRACTICAL.

C. DRAWINGS AND SPECIFICATIONS

1. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO SHOW THE APPROXIMATE LOCATIONS OF EQUIPMENT AND CONDUIT ROUTING. DIMENSIONS GIVEN ON THE PLANS SHALL BE VERIFIED IN THE FIELD. DRAWINGS MAY NOT BE SCALED TO OBTAIN EXACT DIMENSIONS.

2. TTHEIR CONTRACTOR SHALL FURNISH SUCH LABOR AND MATERIALS AS HEREIN-AFTER SPECIFIED AND AS REQUIRED TO COMPLETE ALL ELECTRICAL CONNECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT AND OWNER'S EQUIPMENT AS SHOWN AND/OR SPECIFIED.

D. VISIT TO THE SITE

1. THE CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THEIR WORK, AND THE SUBMISSION OF THEIR PROPOSAL SHALL BE CONSTRUED AS INDICATING SUCH KNOWLEDGE. NO ADDITIONAL PAYMENT WILL BE MADE ON CLAIMS THAT ARISE FROM LACK OF SUCH KNOWLEDGE OF EXISTING CONDITIONS.

E. MATERIALS AND WORKMANSHIP

1. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER BY COMPETENT WORKMEN, SKILLED IN THEIR RESPECTIVE TRADE.

2. UNLESS SPECIFICALLY SPECIFIED OR INDICATED OTHERWISE ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS.

3. ALL MATERIALS SHALL MEET OR EXCEED STANDARDS SPECIFIED BY UL, NEMA, ANSI, AND IEEE WHEREVER SUCH STANDARDS HAVE BEEN ESTABLISHED.

4. THE CONTRACTOR SHALL REMOVE ALL DEBRIS AND EXCESS MATERIALS ASSOCIATED WITH THEIR WORK AND LEAVE THE WORK AREA CLEAN AT END OF EACH WORK DAY.

5. ALL ELECTRICAL EQUIPMENT AND MATERIAL SHALL BEAR THE UNDERWRITER'S LABORATORIES LABEL.

F. DEFINITIONS

1. "INSTALL" SHALL MEAN TO PLACE, FIX IN POSITION, SECURE, ANCHOR, ETC. INCLUDING NECESSARY APPURTENANCES AND LABOR SO THE EQUIPMENT OR INSTALLATION WILL FUNCTION AS SPECIFIED AND INTENDED.

2. "FURNISH" SHALL MEAN TO PURCHASE AND SUPPLY EQUIPMENT OR COMPONENTS.

3. "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".

4. "OR APPROVED EQUAL" AND "OR EQUAL" SHALL MEAN EQUAL IN TYPE, DESIGN, QUALITY, ETC. AS DETERMINED BY THE OWNER AND APPROVED BY ENGINEER.

G. CODES, PERMITS, AND INSPECTIONS

1. INSTALL ALL WORK IN FULL SHALL BE DONE ACCORDANCE WITH CODES, RULES, AND REGULATIONS OF MUNICIPAL, CITY, COUNTY, STATE AND PUBLIC UTILITY AND ALL OTHER AUTHORITIES HAVING JURISDICTION OVER THE PREMISES. TTHEIR SHALL INCLUDE ALL DEPARTMENT OF INDUSTRIAL RELATIONS, OSHA AND THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, AS INTERPRETED BY THE LOCAL INSPECTION DIVISION. ALL THESE CODES, RULES AND REGULATIONS ARE HEREBY INCORPORATED INTO TTHEIR SPECIFICATION.

2. COMPLY WITH SPECIFICATION REQUIREMENTS WHICH ARE IN EXCESS OF CODE REQUIREMENTS AND NOT IN CONFLICT WITH SAME.

3. THE CONTRACTOR SHALL SECURE ALL PERMITS AND CERTIFICATES OF INSPECTION INCIDENTAL TO THEIR WORK, REQUIRED BY THE FOREGOING AUTHORITIES ALL SUCH CERTIFICATES SHALL BE DELIVERED TO THE OWNER IN DUPLICATE, BEFORE FINAL PAYMENT ON CONTRACT WILL BE ALLOWED. THE CONTRACTOR SHALL PAY ALL FEES, CHARGES AND OTHER EXPENSES IN CONNECTION THEREWITH.

H. LABELING AND NAMEPLATES

1. PERMANENTLY LABEL PANELBOARDS, TIME SWITCHES, CONTACTORS, PULL BOXES, JUNCTION BOXES, AND SAFETY SWITCHES INDICATING EQUIPMENT OR PANELS AND AREAS WHICH THEY SERVE.

2. PANELBOARDS SHALL BE LABELED AS SHOWN ON DRAWINGS, UNLESS DIRECTED OTHERWISE BY OWNER/FACILITIES MGMT. NAMEPLATE DETAIL IS FOR FACILITIES THAT DO NOT ALREADY HAVE EXISTING PANEL NAMEPLATE NOMENCLATURE & CONTENT REQUIREMENTS.

3. IDENTIFY AS TO USE ON FACE OF EQUIPMENT BY MEANS OF LAMINATED BLACK AND WHITE PHENOLIC LABEL WITH 3/8" LETTERS ENGRAVED THROUGH BLACK TO WHITE.

4. ALL SWITCHBOARDS AND PANEL BOARDS SHALL BE MARKED TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES,

I. TESTS AND VOLTAGE RECORD

1. ELECTRICAL CONTRACTOR SHALL TEST ALL WIRING AND CONNECTIONS FOR CONTINUITY AND GROUNDS. WHEN THE INSULATION RESISTANCE TEST SHALL INDICATE THE POSSIBILITY OF FAULTY INSULATION, THE CONTRACTOR SHALL LOCATE THE POINTS OF SUCH FAULTY INSULATION AND PULL OUT THE CONDUCTOR, REPLACE SAME WITH NEW, AND DEMONSTRATE. BY FURTHER TEST THE ELIMINATION OF SUCH FAULT.

2. RECORD FEEDER LOAD CURRENTS AND LINE VOLTAGES MEASURED AT EACH PANELBOARD. ADJUST SINGLE PHASE LOAD CONNECTIONS TO BALANCE FEEDER LOADS WITHIN 10%. PROVIDE THE OWNER WITH A COMPLETE COPY OF ALL LOAD AND VOLTAGE RECORDS.

J. BRANCH CIRCUIT WIRING

1. PROVIDE A SYSTEM OF PANELS, CONDUITS, FITTINGS, BOXES, SUPPORTS AND ALL OTHER MISCELLANEOUS MATERIALS REQUIRED FOR EQUIPMENT INDICATED ON PLANS, COMPLETE AND READY FOR OPERATION BY THE OWNER.

2. HOME RUNS FROM 20A OUTLETS 125 FT. OR OVER AT 277 VOLTS, OR 60 FT. OR OVER AT 120 VOLTS SHALL BE #10 WIRE.

3. ALL FIXTURE AND BRANCH CIRCUIT WIRING CONNECTIONS OR SPLICES SHALL BE MADE IN JUNCTION AND OUTLET BOXES WITH U.L. LISTED PRESSURE TYPE. CONNECTORS AND LISTED FOR 600 VOLTS (1,000 VOLTS WHEN ENCLOSED IN FIXTURE). IDEAL INDUSTRIES WIRE NUTS OR APPROVED EQUAL MAY BE USED FOR JOINTS IN WIRE OF #8 GAUGE OR LESS.

K. CONDUCTORS

1. SIZES OF CONDUCTORS FOR FEEDERS ARE GIVEN ON THE DRAWINGS, AND NO WIRE SMALLER THAN #12 GAUGE SHALL BE USED FOR BRANCH LIGHTING OR POWER CIRCUITS. ALL WIRING SHALL HAVE THE U.L. LABEL, AND BE OF 98% CONDUCTIVITY COPPER. ALUMINUM WIRE OR ALUMINUM CABLE IS NOT ACCEPTABLE UNLESS SPECIFICALLY SHOWN ON DRAWINGS.

2. THE GAUGE OF ALL WIRE SHALL BE IN ACCORDANCE WITH B & S STANDARD.

3. ALL WIRE AND CABLE FOR BRANCH LIGHTING OR SMALL POWER CIRCUITS SHALL HAVE "NEC" TYPE "THHN" 600 VOLT INSULATION.

4. WIRE AND CABLE ABOVE #8 GAUGE SHALL BE STRANDED TYPE "THHN" INSULATED 600 VOLTS.

L. CONDUIT AND CABLES

1. ALL CONDUIT SHALL BE RIGID, THREADED, METAL CONDUIT OR ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE SPECIFICALLY STATED HEREIN.

2. CONDUIT AND EMT SHALL BE DELIVERED TO THE BUILDING IN 10 FOOT LENGTHS AND EACH LENGTH SHALL HAVE THE APPROVED UNDERWRITER'S LABORATORIES LABEL.

3. CONDUIT SHALL BE RUN CONCEALED IN ALL FINISHED AREAS OF THE BUILDING AND MAY BE RUN EXPOSED IN UNFINISHED AREAS AT CEILING OR JOIST LEVEL. RUN CONCEALED IN BLOCK WALLS THE EXTENT THAT IS PRACTICAL.

4. EMT CONNECTORS AND COUPLINGS SHALL BE RAIN TIGHT COMPRESSION TYPE (OR SET-SCREW WHERE ACCEPTABLE TO OWNER AND LOCAL CODES) MADE OF STEEL AS MANUFACTURED BY THOMAS & BETTS, STEEL CITY OR APPLETON. BENDS AND OFFSETS SHALL BE MADE WITH A HICKY OR POWER BENDER WITHOUT KINKING OR DESTROYING THE SMOOTH BORE OF THE CONDUIT. PARALLELED CONDUITS SHALL RUN STRAIGHT AND WITH OFFSETS UNIFORM AND SYMMETRICAL. CONDUIT TERMINALS AT BOXES AND CABINETS SHALL BE RIGIDLY SECURED WITH LOCKNUTS AND BUSHINGS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE. INSULATED BUSHINGS SHALL BE USED ON ALL CONDUIT 1-1/4" TRADE SIZE AND LARGER.

5. CONDUIT SHALL BE SECURELY FASTENED IN PLACE AT NO MORE THAN 10 FT. CONDUIT HANGERS, SUPPORTS, OR FASTENINGS SHALL BE PROVIDED AT EACH CONDUIT ELBOW AND AT THE END OF EACH STRAIGHT RUN TERMINATING AT A BOX OR CABINET. CONDUIT SHALL NOT BE SUSPENDED FROM THE CEILING OR CEILING SUSPENSION WIRES.

6. HORIZONTAL AND VERTICAL CONDUIT RUNS SHALL BE SUPPORTED BY ONE-HOLE MALLEABLE STRAPS, OR OTHER APPROVED METAL DEVICE WITH SUITABLE BOLTS, OR BEAM CLAMPS FOR MOUNTING TO BUILDING STRUCTURE OR SPECIAL BRACKETS, CONDUIT SHALL BE SUPPORTED FROM STRUCTURAL STEEL OR JOIST AND INDEPENDENT OF OTHER PIPING. DO NOT SUPPORT CONDUIT FROM METAL ROOF DECK, OR ANY OTHER SUPPORT DEVICE OF ANOTHER TRADE. NON-METALLLIC SHEATHED CABLE (ROMEX) OR AC CABLE SHALL NOT BE USED.

7. TYPE MC CABLE MAY BE USED ONLY WHEN CONCEALED IN FINISHED WALLS OR ABOVE CEILING AND WHEN NOT SUBJECT TO PHYSICAL DAMAGE UNLESS ITS USE IS NOT APPROVED BY OWNER OR LOCAL CODES.

8. ONLY SHORT RUNS OF FLEXIBLE METAL CONDUIT LESS THAN 30" IN LENGTH SHALL BE USED FOR TERMINAL CONNECTIONS TO MOTORS, OTHER VIBRATING EQUIPMENT, OR FOR EQUIPMENT WHICH IT IS NOT PRACTICAL TO MAKE FINAL CONNECTION WITH RIGID CONDUIT. FLEXIBLE CONDUIT EXPOSED TO WEATHER SHALL BE LIQUID TIGHT FLEXIBLE METALLIC CONDUIT.

9. ALL FINAL CONNECTIONS TO VIBRATING OR MOTORIZED EQUIPMENT, INCLUDING GENERATORS & DRY-TYPE TRANSFORMERS, SHALL BE MADE WITH FLEXIBLE METAL CONDUIT SUITABLE FOR THE ENVIRONMENT WHICH IT IS TO BE LOCATED (FMC OR LFMC).

10. ALL UNDERGROUND CONDUITS SHALL BE SEALED IN ACCORDANCE WITH NEC 300.5(G). THE CONTRACTOR SHALL SEAL THE CONDUITS AT THE POINT WHERE THE CONDUIT(S) STUB UP INTO THE BUILDING, AND AT THE POINT OF ORIGIN (WHERE POSSIBLE, PRACTICAL, AND APPLICABLE); UL LISTED SEALING BUSHINGS OR DUCT SEALS SHALL BE USED. ALL ADDITIONAL UNDERGROUND RACEWAYS WHICH ENTER THE BUILDING, INCLUDING THOSE FOR DATA/COMM LINES AND SPARES, SHALL ALSO BE PROPERLY SEALED/CAPPED AT BOTH ENDS.

11. THE CONDUIT SYSTEM SHALL CONFORM TO ALL THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND LOCAL CODES.

M. GROUNDING

1. TTHEIR CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM OF GROUNDING FOR ALL EQUIPMENT AND STRUCTURES. A GOOD MECHANICAL AND ELECTRICAL CONNECTION SHALL BE MADE WITH APPROVED GROUNDING CONNECTORS.

2. ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS SHALL COMPLY WITH ALL LOCAL, STATE AND NEC CODES AND REGULATIONS.

3. PANELS, CONDUIT SYSTEMS, MOTOR FRAMES, LIGHTING FIXTURES AND OTHER EQUIPMENT THAT IS PART OF TTHEIR INSTALLATION SHALL BE PROPERLY BONDED AND GROUNDED IN ACCORDANCE WITH ALL APPLICABLE CODES.

4. MAIN GROUNDING SYSTEM SHALL BE SIZED TO CONFORM WITH TABLE 250-66 OF THE NATIONAL ELECTRIC CODE. PROVIDE CONDUIT TO PROTECT GROUND WIRE FROM PHYSICAL DAMAGE IF LESS THAN 6 FEET ABOVE FINISHED FLOOR.

N. LIGHTING/APPLIANCE PANELBOARDS AND DISTRIBUTION PANELS

1. DISTRIBUTION PANELS SHALL BE SQUARE "D" CO., TYPE "ILINE" OR APPROVED EQUAL BY G.E., SIEMENS, OR CUTLER HAMMER.

2. 208/120V PANELS SHALL BE SQUARE "D" CO. TYPE "NQ" OR APPROVED EQUAL BY G.E., SIEMENS, OR CUTLER HAMMER, WITH TYPE "QOB" BOLT-ON BRANCH CIRCUIT BREAKERS.

3. 480/277V PANELS SHALL BE SQUARE "D" CO. TYPE "NF" OR APPROVED EQUAL BY G.E., SIEMENS, OR CUTLER HAMMER WITH BOLT-ON BRANCH CIRCUIT BREAKERS.

4. SHORT CIRCUIT RATINGS OF NEW PANELS SHALL BE AS NOTED ON DRAWINGS, OR AS OTHERWISE DIRECTED BY LOCAL UTILITY COMPANY. UL TESTED AND CERTIFIED SERIES RATINGS ARE ACCEPTABLE WITH WRITTEN DOCUMENTATION SHOWING SERIES RATINGS BUT ONLY IF ACCEPTABLE TO OWNER AND ALL APPLICABLE CODES.

5. ALL BREAKERS SHALL BE BOLTED TO BUS AND CAPABLE OF INTERCHANGING ONE, TWO OR THREE POLE UNITS. MULTIPLE UNITS SHALL HAVE COMMON TRIP. PROVIDE SPARE BREAKERS IN EACH PANEL AS SHOWN. ALL BUSSING SHALL BE 98% CONDUCTIVITY COPPER.

O. GENERAL FOR ALL PANELS

1. METAL FRAMED CARDHOLDERS WITH TYPEWRITTEN CIRCUIT DIRECTORY MUST BE PROVIDED FOR EACH PANEL. DIRECTORY SHALL BE CLEAR AND DESIGNATION SHALL MATCH IDENTIFICATION ON EQUIPMENT. PANELBOARDS (POWER PANELS AND LIGHTING PANELS) SHALL BE WITH IDENTIFICATION LABELED ON PANEL DOOR. PROVIDE ENGRAVED LAMINATED PHENOLIC NAMEPLATES WITH 1/2" LETTERS.

2. ALL PANELS, SAFETY SWITCHES, STARTERS AND IN GENERAL, ALL EQUIPMENT REQUIRING LUGS SHALL BE EQUIPPED WITH SOLDERLESS TYPE U.L. APPROVED LUGS.

3. PROVIDE ALL NECESSARY UNISTRUT, CHANNEL, BACKING AND SUPPORTS TO MOUNT PANELBOARDS SECURELY IN PLACE.

4. SCREW FASTENED HANDLE LOCK-ON DEVICES ARE REQUIRED ON CIRCUIT BREAKERS PROTECTING THE FOLLOWING EQUIPMENT:

   A. EMERGENCY, EXIT, SECURITY, AND NIGHT LIGHTS.

   B. HEATING AND COOLING CONTROL CIRCUITS.

   C. ALL TIME SWITCHES.

   D. FIRE ALARM CONTROL PANEL & POWER SUPPLIES

5. PROVIDE HINGED (DOOR-IN-DOOR) TRIM FOR ALL NEW PANELBOARDS.

P. TOGGLE SWITCHES AND RECEPTACLES

1. SINGLE POLE AND THREE WAY SWITCHES SHALL BE RATED 20 AMPERE, 277/120 VOLTS, COLOR TO BE BID AS IVORY (FINAL SELECTION BY ARCHITECT) HUBBELL OR EQUAL.

2. SWITCHES SHALL BE MOUNTED 42" ABOVE FINISHED FLOOR TO CENTERLINE. DUPLEX RECEPTACLES SHALL BE AS SPECIFIED ON DRAWINGS.

Q. DISCONNECT SWITCHES

1. AN APPROVED HORSEPOWER RATED, HEAVY DUTY, DISCONNECT SWITCH SHALL BE PROVIDED WITHIN SIGHT OF EACH MOTOR AND EACH HEATING UNIT. PROVIDE FUSED SWITCHES WHERE BRANCH CIRCUIT FUSES ARE NOT SIZED FOR OVERLOAD PROTECTION.

2. SWITCHES ON THE ROOF SHALL BE WEATHERPROOF MOUNTED ON UNISTRUT.

3. SWITCHES SHALL BE LABELED ON THEIR COVER IDENTIFYING THE EQUIPMENT TO BE PROTECTED.

4. PROVIDE WEATHERPROOF JUNCTION BOX AND DISCONNECT IN ACCORDANCE WITH NEC 600 FOR ALL EXTERIOR BUILDING SIGNS (WHERE APPLICABLE).

R. MOTORS AND WIRING

1. PROVIDE DISCONNECT SWITCHES (EXCEPT WHERE SPECIFICALLY SPECIFIED BY (OTHERS) AND RUN POWER CIRCUITS FROM THE PANELBOARD THROUGH DISCONNECT SWITCHES & CONTROL DEVICES TO MOTOR TERMINALS.

2. PROVIDE ALL STARTERS, CONTROLS PUSH BUTTON STATIONS, ETC. NOT SUPPLIED BY OTHERS REQUIRED FOR THE PROPER AND INTENDED OPERATION OF MOTORS AND OR MOTORIZED EQUIPMENT SUPPLIED BY OTHERS.

   A. THE ABOVE ELECTRICAL EQUIPMENT SHALL BE MOUNTED SECURELY TO WALL OR FRAMES AND THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL NECESSARY BRACKETS, STRUCTURAL PIECES, EXPANSION BOLTS AND OTHER ACCESSORIES REQUIRED.

   B. WOODEN PLUGS SHALL NOT BE PERMITTED FOR ANCHORING.

   C. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LUBRICATION OF ALL MOTORS.

3. REFER ALSO TO MECHANICAL SPECIFICATIONS FOR WORK BY MECHANICAL CONTRACTOR WHICH MAY RESULT IN ADDITIONAL WORK FOR TTHEIR ELECTRICAL CONTRACTOR.

4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER WIRING AND CONNECTIONS TO ALL HVAC EQUIPMENT.

5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING AND CONNECTIONS TO ALL HVAC EQUIPMENT NOT PROVIDED BY OTHERS.

6. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONTROL EQUIPMENT (STARTERS, CONTACTORS. ETC.) NOT SUPPLIED BY HVAC CONTRACTOR BUT REQUIRED FOR THE INTENDED OPERATION OF HVAC EQUIPMENT.

7. THE ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES FOR ALL HVAC EQUIPMENT NOT SUPPLIED BY OTHERS. REFER TO MECHANICAL SPECIFICATION AND DRAWINGS FOR ADDITIONAL ELECTRICAL WORK AND COORDINATION.

S. FUSES

1. REPLACE ALL FUSES BLOWN DURING CONSTRUCTION AND TESTING AND PROVIDE A COMPLETE SET OF FUSES IN ALL FUSE HOLDERS, SWITCHES, PANELS, AND ALL OTHER DEVICES REQUIRING FUSES. FUSES SHALL BE CURRENT LIMITING, DUAL ELEMENT TIME DELAY TYPE.

2. PROVIDE OWNER WITH ONE SET OF SPARE FUSES FOR EACH FUSED SWITCH.

T. DRY TYPE TRANSFORMERS

1. DRY TYPE TRANSFORMERS MUST MEET THE LATEST DEPARTMENT OF ENERGY STANDARDS FOR EFFICIENCY.

2. PROVIDE SQUARE D CLASS 7400, TYPE "EX" OR APPROVED EQUAL BY GE, EATON OR SIEMENS.

3. PROVIDE ALUMINUM WINDINGS UNLESS COPPER IS REQUIRED BY OWNER.

4. PROVIDE 6 2.5% TAPS. 2 ABOVE & 4 BELOW.

5. TRANSFORMER TO HAVE 220 CLASS INUSLATION & 150 DEGREES C RISE

U. GUARANTEE

1. IN ADDITION TO WARRANTIES OF EQUIPMENT BY MANUFACTURER TTHEIR CONTRACTOR SHALL ALSO GUARANTEE EQUIPMENT PROVIDED BY HIM AND SHALL BE HELD FOR A PERIOD OF ONE (1) YEAR TO MAKE GOOD ANY DEFECTS IN MATERIALS AND WORKMANSHIP OCCURRING DURING TTHEIR PERIOD, AT THEIR SOLE EXPENSE. THE ONE (1) YEAR PERIOD SHALL START FROM DATE OF FINAL ACCEPTANCE BY OWNER.

V. FIELD DRAWING

1. KEEP ONE (1) SET OF WORKING DRAWINGS AND SHOP DRAWINGS AT THE JOB SITE FOR SOLE PURPOSE OF RECORDING ALL CHANGES MADE DURING CONSTRUCTION. AFTER COMPLETION OF THE WORK AND BEFORE REQUESTING FINAL PAYMENT, THE ABOVE MENTIONED DRAWINGS SHALL BE DELIVERED TO THE OWNER.

W. SUBSTITUTION

1. WHENEVER ALTERNATE MATERIALS ARE SPECIFIED, IT IS WITH THE UNDERSTANDING THAT ANY ONE OF THE MATERIALS IS ACCEPTABLE TO THE OWNER. MATERIALS AND EQUIPMENT OTHER THAN THOSE SPECIFIED ARE NOT TO BE ASSUMED TO BE SATISFACTORY SUBSTITUTES WITHOUT PRIOR APPROVAL OF THE OWNER AND ARCHITECT/ENGINEER.

X. SHOP DRAWINGS

1. ONLY MANDATORY SHOP DRAWINGS AS LIMITED/OUTLINED HEREIN SHALL BE SUBMITTED.

2. NO WORK SHALL BE COMMENCE UNTIL THE MANDATORY SHOP DRAWINGS HAVE BEEN APPROVED BY THE ARCHITECT/ENGINEER. THE ARCHITECT/ENGINEER SHALL REVIEW SHOP DRAWINGS BEFORE A COPY IS SUBMITTED TO THE OWNER FOR RECORD PURPOSES.

3. ONLY MATERIAL AND EQUIPMENT MANUFACTURERS OF PRODUCTS OR SYSTEMS LISTED BELOW SHALL FURNISH MANDATORY SHOP DRAWINGS FOR APPROVAL BY THE ARCHITECT/ ENGINEER PRIOR TO CONTRACTORS PURCHASING EQUIPMENT. SHOP DRAWINGS ARE TO CONTAIN THE FOLLOWING:

   A. MANUFACTURER'S NAME, MATERIAL DESCRIPTION, SIZES AND DIMENSIONS AND OTHER PERTINENT INFORMATION TO CONFIRM AS A MINIMUM STANDARD FOR EQUIPMENT LISTED IN THE SCHEDULES ON THE DRAWINGS AND OR IN THE SPECIFICATIONS.

4. SUBMIT AN ELECTRONIC COPY (ADOBE .PDF AND/OR AUTOCAD .DWG FILE FORMAT) OF ALL REQUIRED ELECTRICAL SHOP DRAWINGS.

5. THE FOLLOWING SHOP DRAWING SUBMITTALS ARE A MANDATORY REQUIREMENT OF THE OWNER, IF THE FOLLOWING EQUIPMENT IS TO BE INSTALLED:

   - WIRING DEVICES, INCLUDING CABLING & RACEWAYS
   - LIGHTING FIXTURES, EXIT SIGNS & EMERGENCY LIGHTING FIXTURES, AND LIGHTING CONTROLS
   - DISCONNECT SWITCHES
   - FIRE ALARM DEVICES
   - FIRE ALARM SHOP DRAWING SUBMITTALS INCLUDING VOLTAGE DROP AND BATTERY CALCULATIONS, SEQUENCE OF OPERATIONS MATRIX, & DEVICE SPECIFICATION SHEETS.
   - TIMECLOCK
   - AS DIRECTED BY R&F CM

Y. ALARM AND DETECTION SYSTEMS

1. PROVIDE NECESSARY CONDUIT AND POWER FOR ALARM AND DETECTION SYSTEMS ADDITIONS/MODIFICATIONS; TTHEIR SHALL INCLUDE THE FOLLOWING:

   - DEDICATED 20 AMP/120 VOLT CIRCUIT (S).
   - 3/4" CONDUIT (EMPTY) TO EACH TO DOOR CONTACT, SOUND DETECTION SILENT DURESS ALARM, FILM CAMERA, SUSPICION BUTTON, ETC. (REFER TO ARCHITECTURAL DOOR SCHEDULE)
   - COORDINATE ALL LOCATIONS OF ALARM AND DETECTION SYSTEM WITH OWNER. THESE ITEMS ARE NOT SHOWN ON ELECTRICAL DRAWINGS.

Z. TELEDATA & COMMUNICATION SYSTEMS

1. WORK INCLUDES: EMPTY CONDUIT WITH NYLON PULLWIRES AND BOXES FOR ADDITIONS/MODIFICATIONS TO TELEDATA, TELECOMM, DATA, & A/V SYSTEMS CABLING/WIRING.

2. WORK BY TELE/DATA/COMM CONTRACTOR (VERIFY SCOPE WITH R&F CM):

   - ALL WIRING FOR TELEDATA, TELECOMM, DATA, & A/V SYSTEMS (ETC.), INCLUDING BUT NOT LIMITED TO ASSOCIATED OUTLETS, PORTS, DEVICES, ETC., INCLUDING ASSOCIATED COVERPLATES.
   - ALL TELE/DATA/COMM INSTRUMENTS

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10/09/2026
PETER J. BONNES, P.E.
LICENSE #077635
EXPIRES 04/30/2029

Client:

RAYMOUR & Flanigan FURNITURE
P.O. Box 220, 7248 Morgan Rd.
Liverpool, NY 13088

Project Name:

Interior Renovations
to the
Raymour & Flanigan
Furniture Showroom
located at
1459 Niagara Falls Blvd.,
Amherst, NY 14228

Plan North   True North

Issue / Revisions:

#	Date	Description
0	10.09.26	Issued for Permit

Drawn By:	RCK
Chk'd By:	PJB
Date:	10.09.2026
Scale:	As Noted
Project Number:	RFF 26111

Drawing Title:

ELECTRICAL SPECIFICATIONS

Drawing Number:

E8.0

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