

# CHICAGO COMMERCIAL CONSTRUCTION

PROPOSED INTERIOR OFFICE REMODEL FOR

18660 GRAPHICS DR. SUITE 200, TINLEY PARK, IL.

APPLICABLE CODES UTILIZED: 2012 INTERNATIONAL BUILDING CODE, 2012 INTERNATIONAL MECHANICAL CODE, 2012 INTERNATIONAL PROPERTY MAINTENANCE CODE, 2012 INTERNATIONAL FUEL GAS CODE, 2012 INTERNATIONAL FIRE CODE, 2011 NATIONAL ELECTRIC CODE, 2014 ILLINOIS STATE PLUMBING CODE, 2018 ILLINOIS ACCESSIBILITY CODE, 2015 INTERNATIONAL ENERGY CONSERVATION CODE W/ ILLINOIS AMENDMENTS AND VILLAGE OF TINLEY PARK BUILDING CODE 2016

**GENERAL NOTES :**

1. THE GENERAL CONTRACTOR SHALL APPLY FOR AND SECURE THE BUILDING PERMIT. OWNER/TENANT SHALL PAY FOR SAID PERMIT.
2. THE GENERAL CONTRACTOR AND ALL SUB CONTRACTORS SHALL OBTAIN AND PAY FOR ALL OTHER PERMITS, FEES, LIC., BONDS, DEPOSITS, ETC. AS REQ'D BY LOCAL CODE.
3. THE GENERAL CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL REQUIRED VILLAGE/COUNTY INSPECTIONS DURING CONSTRUCTION.
4. THE CONTRACTOR AND OWNER AGREE TO PROTECT, DEFEND AND HOLD HARMLESS AND INDEMNIFY THE ARCHITECT AND THEIR EMPLOYEES, AGENTS, CONSULTANTS FROM ANY CLAIMS, DEMANDS OR EXPENSES ON ACCOUNT OF ANY BODILY INJURY ALLEGED OR REAL TO PERSONS, INCLUDING SICKNESS, DISEASE OR DEATH, OR ANY DAMAGE ALLEGED OR REAL ARISING OUT OF ANYTHING DONE UNDER THIS CONTRACT BY THE CONTRACTOR OR ANY SUBCONTRACTOR OR ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY EITHER, EXCEPT WHEN DIRECTLY DUE TO ERRORS IN THE DOCUMENTS.
5. ALL CONTRACTORS SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER AND SHALL LEAVE THE WORK IN PERFECT ORDER AT COMPLETION AND NEITHER THE FINAL CERTIFICATE OR PAYMENT NOR ANY PROVISION IN THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTORS OF THE RESPONSIBILITY FOR NEGLIGENCE OR FAULTY MATERIALS OR WORKMANSHIP WITHIN THE EXTENT AND PERIOD PROVIDED BY LAW AND UPON WRITTEN NOTICE, HE/SHE SHALL REMEDY DEFECTS DUE THERETO AND PAY ALL EXPENSES FOR DAMAGES TO OTHER WORK RESULTING THEREFROM.
6. ALL WORKMANSHIP SHALL COMPLY WITH ALL APPLICABLE VILLAGE, COUNTY, STATE AND FEDERAL LAWS, INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ADOPTED PURSUANT THERETO.
7. THE CONTRACTOR AND SUBCONTRACTOR(S) DURING AND AT COMPLETION OF WORK SHALL REMOVE ALL SURPLUS CONSTRUCTION MATERIAL INCLUDING BOXES, DEBRIS, ETC. AND DISPOSE OF SAME OFF SITE. LEAVE ALL SURFACES BROOM CLEAN. ALL DEBRIS SHALL BE DEPOSITED IN CONTAINERS SUPPLIED BY THE GENERAL CONTRACTOR.
8. THE GENERAL CONTRACTOR SHALL FURNISH ALL MATERIAL AND LABOR FOR A COMPLETE JOB.
9. ALL WORK SHALL BE DONE IN ACCORDANCE WITH SELECTED MATERIAL MANUFACTURER'S SPECIFICATIONS AND REQUIREMENTS.
10. THE OWNER'S AND ARCHITECT'S RESPONSIBILITY LIES IN THE PERMANENT RESULTS AND DO NOT INCLUDE THE MEANS, SEQUENCES OR PROCEDURES EMPLOYED BY THE CONTRACTOR IN EXECUTING AND COMPLETING THE WORK. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED PROJECT. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE MEANS OR METHOD OF CONSTRUCTION. PROVIDE ALL MEASURES NECESSARY FOR CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING OF BUILDING AND EARTH BANKS (IF APPLICABLE), FORMS, SCAFFOLDING, PLANKING, SAFETY NETS, LADDERS, ETC.
11. THE CONTRACTOR(S) SHALL INSPECT THE SITE AND SHALL VERIFY ALL DATA PERTAINING TO THE EXISTING BUILDING AND ITS RELATION TO THE NEW WORK, AND REPORT ANY DISCREPANCIES TO THE ARCHITECT THAT MAY AFFECT HIS/HER WORK.
12. ENGAGE PROPERLY QUALIFIED PERSONS TO DETERMINE WHERE, HOW AND IF TEMPORARY PRECAUTIONARY MEASURES SHOULD BE USED AND INSPECT SAME IN THE FIELD. OBSERVATION VISITS TO THE SITE BY FIELD REPRESENTATIVES SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
13. FIELD VERIFY ALL EXISTING/ACTUAL DIMENSIONS, MEMBER SIZES, AND ELEVATIONS FOR CONFORMANCE WITH THE DRAWINGS. ALL DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT.
14. DO NOT SCALE FROM THE DRAWINGS. WORK ONLY WITH GIVEN DIMENSIONS.
15. ALL CONTRACTORS SHALL BE LICENSED, BONDED AND INSURED AND SHALL FURNISH A CERTIFICATE AS EVIDENCE OF INSURANCE AND INSURANCE LIMITS TO OWNER AND SHALL LIST THE OWNER AND ADAIR ARCHITECTS INC. AS 'ADDITIONAL INSURED'.
16. ALL CONTRACTORS SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES EFFECTED BY THEIR WORK AND SHALL BE RESPONSIBLE FOR PROTECTING THE SAME DURING CONSTRUCTION. CONTRACTORS TO INCLUDE IN THEIR BID REWORKING OF UTILITIES AS MAY BE REQUIRED BY THEIR WORK.
17. ANY DAMAGE TO EXISTING OR NEW WORK DURING THE CONSTRUCTION PERIOD RESULTING FROM NEGLIGENCE BY OR ACTS OF THE CONTRACTORS SHALL BE REPAIRED OR REPLACED TO ITS ORIGINAL CONDITION BY THE APPROPRIATE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
18. THE GENERAL CONTRACTOR UPON WRITTEN NOTICE BY THE OWNER, PROMPTLY CORRECT ALL WORK FOUND TO BE DEFICIENT OR FAILING TO CONFORM TO THE CONTRACT DOCUMENTS DURING THE CONSTRUCTION AND/OR THE GUARANTEE PERIOD.
19. THE GENERAL CONTRACTOR SHALL COMPLY WITH AND PROVIDE FOR SITE CONSTRUCTION CLOSURE REQUIREMENTS AS REQUIRED BY LOCAL MUNICIPALITY AND GOVERNING BODIES.
20. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE FOR ANY AND ALL CLOSURES AND PROTECTIVE DEVICES NECESSARY TO KEEP THE GENERAL PUBLIC FROM SITE ACCESS DURING THE CONSTRUCTION PERIOD.
21. BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, EACH BIDDER SHALL VISIT THE PREMISES AND ACQUAINT HIMSELF FULLY WITH THE EXISTING CONDITIONS, TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPES OF THE EQUIPMENT, ETC. HIS BID SHALL INCLUDE ALL SUPS REQUIRED TO DO THE WORK WITHIN THE EXISTING CONDITIONS. DISRUPTION OF NORMAL ACTIVITIES IN THE WORK AREA MUST BE KEPT TO A MINIMUM.
22. SHOP DRAWINGS PREPARED BY SUPPLIERS, SUBCONTRACTORS, ETC. SHALL BE REVIEWED, COORDINATED AND APPROVED BY THE GENERAL CONTRACTOR.
23. UNLESS OTHERWISE NOTED, ALL DETAILS, SECTIONS AND NOTES ON THE DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR SITUATIONS ELSEWHERE.
24. DESIGN LOADS, ALLOWABLE STRESSES AND STRUCTURAL CAPACITIES ARE BASED ON THE APPLICABLE BUILDING CODE IN FORCE AT THE LOCATION OF THIS BUILDING.
25. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK SO AS TO MAINTAIN SOLE RESPONSIBILITY FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. AS A PART OF THIS RESPONSIBILITY, RETAIN THE SERVICES OF A LICENSED STRUCTURAL ENGINEER TO DESIGN AND SUPERVISE ANY REQUIRED SCAFFOLDING FOR WORKMEN, AND ALL SHORING OF FORMS AND ELEMENTS OF THE CONSTRUCTION.
26. THESE NOTES ARE INTENDED TO SERVE AS AN OUTLINE FOR CONSTRUCTION ONLY AND ARE NOT INTENDED TO BE A COMPLETE OR EXHAUSTIVE QUALITY CONTROL OR MATERIAL DOCUMENT.

DESIGN CRITERIA	
OCCUPANCY GROUP	B-BUSINESS (UNCHANGED FROM PREVIOUS TENANT)
LAND USE ZONE	B-2 / BUSINESS
TYPE OF CONST.	TYPE 2-B, SPRINKLERED
ALLOWABLE AREA	23,000 S.F.
PROPOSED AREA	PROPOSED BUILD-OUT DOES NOT ALTER EXIST. BUILDING S.F.
MAX. ALLOWABLE OCCUPANT LOAD	EXIST. OFFICE = 4,171 S.F. / 100 = 42 OCC.
PROPOSED OCCUPANT LOAD	4,171 S.F. PROPOSED BUILD-OUT DOES NOT ALTER EXIST. OCC. LOAD
NO. EXITS REQ'D.	1
NO. EXITS PROVIDED	1

**NOTE:**  
PLUMBING DESIGN LOAD FOR THIS OFFICE SPACE IS 20 OCCUPANTS. THE PROPOSED TENANT SPACE WILL SHARE THE EXISTING COMMON MEN/WOMEN TOILET ROOMS ON THE SAME FLOOR W/OTHER TENANTS AS APPROVED BY THE VILLAGE OF TINLEY PARK BUILDING DEPARTMENT.

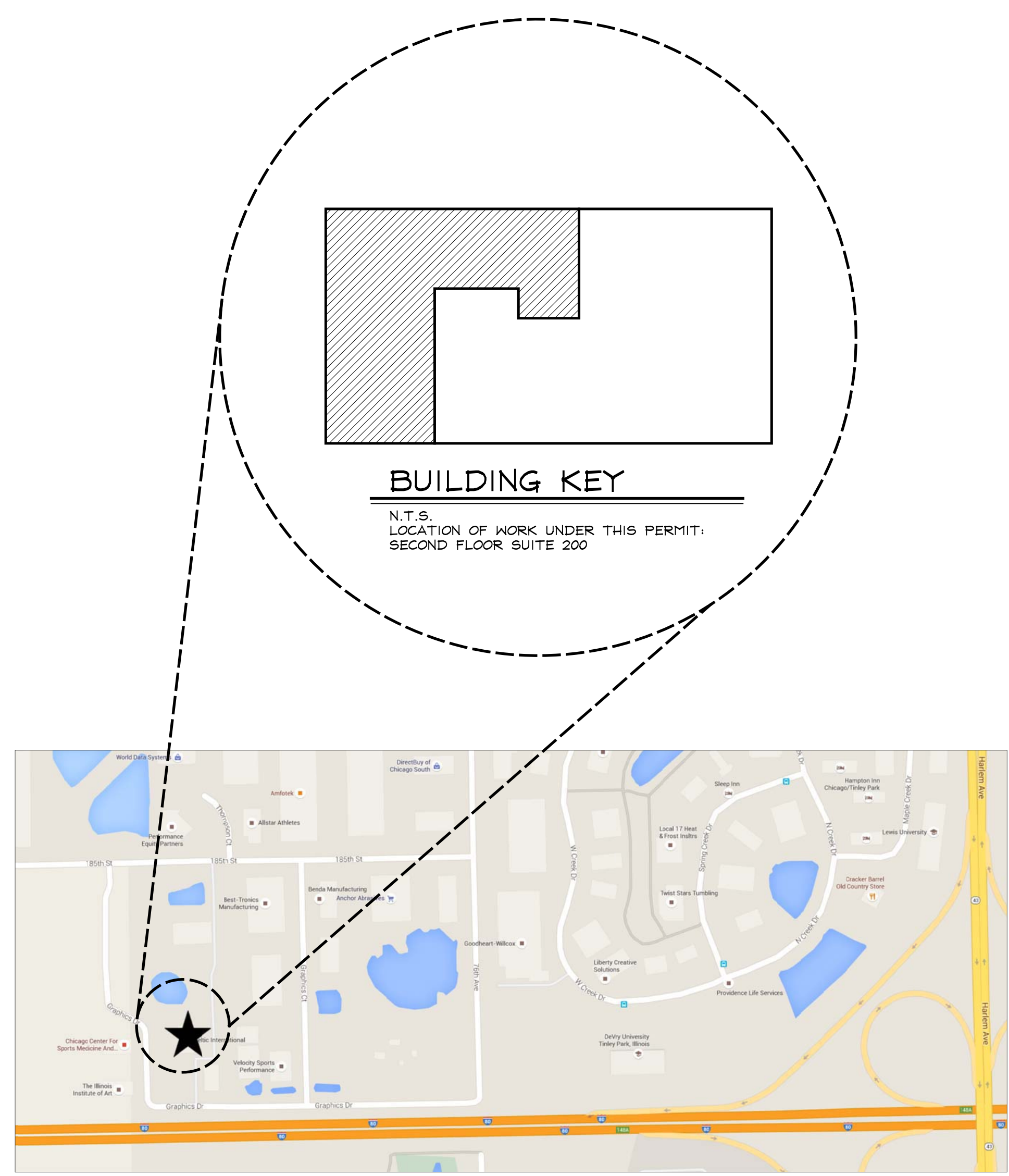
DRAWING INDEX	
SHEET NO.	DESCRIPTION
T-1	TITLE SHEET
A-1	SECOND FLOOR FRAMING PLAN, PLUMBING DIAGRAMS, NOTES
A-2	TYP. WALL PARTITION TYPES
A-3	ROOM FINISH SCHEDULE, DR. SCHEDULE, NOTES & DETAILS
A-4	SECOND FLOOR REFLECTED CLG. PLAN, NOTES & DETAIL
LS-1	SECOND FLOOR LIFE SAFETY PLAN, NOTES
M-1	FIRST FLOOR HVAC PLAN
M-2	HVAC NOTES & DETAILS
E-1	SECOND FLOOR POWER PLAN
E-2	SECOND FLOOR ELECTRICAL LIGHTING PLAN, LT. FIXT. SCHED.
E-3	ELECTRICAL NOTES, PANEL BD. SCHED.,

(EXIST. HVAC DUCT LAYOUT, SIZING & LOAD TO REMAIN UNCHANGED. LOCATION OF SOME SUPPLY & RETURNS HAVE BEEN RELOCATED ONLY. TENANT MAY REPLACE OR REFINISH REGISTERS & GRILLES ONLY.)

(EXIST. ELECT. LIGHT FIXTURE COUNT AND WATTAGE TO REMAIN UNCHANGED. TENANT MAY REPLACE EXIST. BULBS FOR NEW.)

**NOTE:** AUTOMATIC FIRE SUPPRESSION, SPRINKLER AND ALARM SYSTEMS TO BE INSTALLED AS PER NFPA 72 REQUIREMENTS & MANUF. SPECS. AUTOMATIC FIRE SUPP., SPRINKLER & ALARM SYSTEMS DRAWINGS TO BE PROVIDED BY OTHERS AND SUBMITTED AT A LATER DATE UNDER SEPARATE COVER.  
ALL NEW & EXIST. DOORS SHALL BE EQUIPPED W/PANIC HARDWARE.  
ALL NEW & EXIST. GLASS SHALL BE TEMPERED.

FIRE RESISTANCE RATINGS	
STRUCTURE ELEMENT	FIRE-RES. RATING (IN HRS.)
STRUCTURAL FRAME INCLUDING COLUMNS, GIRDERS, TRUSSES, ETC.	0
INTERIOR BEARING OR NON-LOAD BEARING PARTITIONS	0
EXTERIOR BEARING OR NON-LOAD BEARING PARTITIONS	0
FLOOR CONST. INCLUDING SUPPORTING BEAMS & JSTS.	0
ROOF CONST. INCLUDING SUPPORTING BEAMS & JSTS.	0
STORAGE ROOMS OVER 100 S.F.	1



**LOCATION MAP**

N.T.S.



**CONTRACTOR'S NOTE:**

THESE DRAWINGS ARE SCOPE DOCUMENTS INDICATING THE GENERAL PROJECT DESIGN CONCEPT, DIMENSIONS OF THE PROJECT, MAJOR ARCHITECTURAL ELEMENTS AND BASIC ORGANIZATION OF STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS. AS SCOPE DOCUMENTS, THESE DRAWINGS DO NOT NECESSARILY DESCRIBE OR INDICATE ALL MATERIALS OR WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE PROJECT. ON THE BASIS OF THE GENERAL SCOPE INDICATED OR DESCRIBED, THE CONTRACTOR(S) SHALL FURNISH ALL ITEMS REQUIRED FOR PROPER EXECUTION AND COMPLETION OF THE PROPOSED PROJECT. THE ARCHITECT IS NOT RESPONSIBLE FOR THE FAILURE OF THE CONTRACTOR(S) TO EXECUTE NECESSARY WORK AND SUPPLY REQUIRED MATERIALS FOR PROPER COMPLETION OF THIS PROJECT, AND MAKES NO WARRANTY SAID OR IMPLIED ON THESE CONSTRUCTION DOCUMENTS. ALL CHANGES WITH REGARD TO THE SCOPE OF THESE DOCUMENTS SHALL BE FINALIZED WITH THE ARCHITECT AND OWNER AND COMMUNICATED IN WRITING TO THE CONTRACTOR(S).

THE AGREEMENT BETWEEN THE ARCHITECT AND ANY OTHER PARTY INVOLVED WITH THIS STRUCTURE DOES NOT INCLUDE ON-SITE INSPECTIONS AND OBSERVATION, AND DUE TO THE FACT THAT THE ARCHITECT HAS COMPLETED ONLY WORKING DRAWINGS FOR THIS STRUCTURE, THE ARCHITECT CANNOT ASSUME RESPONSIBILITY FOR CONSTRUCTION, CONSTRUCTION METHODS OR SAFETY PRECAUTIONS USED BY CONTRACTOR(S).

**STATEMENT(S) OF COMPLIANCE:**

I HEREBY CERTIFY THAT THESE DRAWINGS WERE PREPARED BY ME AND/OR UNDER MY SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF THEY COMPLY WITH THE ORDINANCES AND BUILDING CODES OF THE VILLAGE OF TINLEY PARK, ILLINOIS.

I HAVE PREPARED, OR CAUSED TO BE PREPARED UNDER MY DIRECT SUPERVISION, THE ATTACHED PLANS AS LISTED ON THE DRAWING INDEX OF THIS SHEET AND STATE THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF AND TO THE EXTENT OF MY CONTRACTUAL OBLIGATION, THEY ARE IN COMPLIANCE WITH THE ENVIRONMENTAL BARRIERS ACT (410 ILCS 25) AND THE ILLINOIS ACCESSIBILITY CODE (71 ILL. ADM. CODE 400)

SIGNED: *Mark P. Adair*  
MARK P. ADAIR, ARCHITECT  
ILLINOIS LICENSE NUMBER: 001.016879  
DATE LICENSE EXPIRES: 11-30-2022

DATE: 03/10/2021  
ADAIR ARCHITECTS, INC.  
DESIGN FIRM LICENSE NUMBER: 184.007746-0001  
DATE LICENSE EXPIRES: 04-30-2021

**ADAIR ARCHITECTS, INC.**  
19150 S. WOLF RD., SUITE 160 MOKENA, IL 60448  
TELEPHONE: 708-478-7160 FAX: (708) 478-7161



**CHICAGO COMMERCIAL CONSTRUCTION**  
18660 GRAPHICS DRIVE, SUITE 200, TINLEY PARK, IL

ISSUE FOR PERMIT:
ISSUES
2100

DRAWING TITLE:  
DESIGN CRITERIA

T-1





ROOM FINISH SCHEDULE

MARK	USE OF SPACE	FLOOR		BASE		WALLS		CEILING		REMARKS
		MAT'L.	FINISH	MAT'L.	FINISH	MAT'L.	FINISH	MAT'L.	FINISH	
200	RECEPTION	CONC.	CARPET TILE	OAK	STAIN	5/8" GYPSUM BOARD	PAINT	ACT. CLG. TILES	9'-0"	VER. ALL FINISHES W/ TENANT/CONTRACTOR AGREEMENT. BASE TO BE 5-1/4" OAK (STAINED).
201	CONFERENCE	CONC.	CARPET TILE	OAK	STAIN	5/8" GYPSUM BOARD	PAINT	ACT. CLG. TILES	9'-0"	VER. ALL FINISHES W/ TENANT/CONTRACTOR AGREEMENT. BASE TO BE 5-1/4" OAK (STAINED).
202	ACCOUNTING	CONC.	CARPET TILE	OAK	STAIN	5/8" GYPSUM BOARD	PAINT	ACT. CLG. TILES	9'-0"	VER. ALL FINISHES W/ TENANT/CONTRACTOR AGREEMENT. BASE TO BE 5-1/4" OAK (STAINED).
203	OFFICE	CONC.	CARPET TILE	OAK	STAIN	5/8" GYPSUM BOARD	PAINT	ACT. CLG. TILES	9'-0"	VER. ALL FINISHES W/ TENANT/CONTRACTOR AGREEMENT. BASE TO BE 5-1/4" OAK (STAINED).
204	OFFICE	CONC.	CARPET TILE	OAK	STAIN	5/8" GYPSUM BOARD	PAINT	ACT. CLG. TILES	9'-0"	VER. ALL FINISHES W/ TENANT/CONTRACTOR AGREEMENT. BASE TO BE 5-1/4" OAK (STAINED).
205	OFFICE	CONC.	CARPET TILE	VINYL	---	5/8" GYPSUM BOARD	PAINT	ACT. CLG. TILES	9'-0"	VER. ALL FINISHES W/ TENANT/CONTRACTOR AGREEMENT. FLOORING TO BE ANTI-STATIC VINYL TILE
206	OPEN OFFICE	CONC.	CARPET TILE	OAK	STAIN	5/8" GYPSUM BOARD	PAINT	EXIST. TO REMAIN	14'-6"	VER. ALL FINISHES W/ TENANT/CONTRACTOR AGREEMENT. BASE TO BE 5-1/4" OAK (STAINED). PART OF SPACE HAS EPOXY FLR., VER. LOC. W/TENANT.
207	OFFICE	CONC.	CARPET TILE	OAK	STAIN	5/8" GYPSUM BOARD	PAINT	ACT. CLG. TILES	9'-0"	VER. ALL FINISHES W/ TENANT/CONTRACTOR AGREEMENT. BASE TO BE 5-1/4" OAK (STAINED).
208	OFFICE	CONC.	CARPET TILE	OAK	STAIN	5/8" GYPSUM BOARD	PAINT	ACT. CLG. TILES	9'-0"	VER. ALL FINISHES W/ TENANT/CONTRACTOR AGREEMENT. BASE TO BE 5-1/4" OAK (STAINED).
209	OFFICE	CONC.	CARPET TILE	OAK	STAIN	5/8" GYPSUM BOARD	PAINT	ACT. CLG. TILES	9'-0"	VER. ALL FINISHES W/ TENANT/CONTRACTOR AGREEMENT. BASE TO BE 5-1/4" OAK (STAINED).
210	OFFICE	CONC.	CARPET TILE	OAK	STAIN	5/8" GYPSUM BOARD	PAINT	ACT. CLG. TILES	9'-0"	VER. ALL FINISHES W/ TENANT/CONTRACTOR AGREEMENT. BASE TO BE 5-1/4" OAK (STAINED).
211	OFFICE	CONC.	CARPET TILE	OAK	STAIN	5/8" GYPSUM BOARD	PAINT	ACT. CLG. TILES	9'-0"	VER. ALL FINISHES W/ TENANT/CONTRACTOR AGREEMENT. BASE TO BE 5-1/4" OAK (STAINED).
212	OFFICE	CONC.	CARPET TILE	OAK	STAIN	5/8" GYPSUM BOARD	PAINT	ACT. CLG. TILES	9'-0"	VER. ALL FINISHES W/ TENANT/CONTRACTOR AGREEMENT. BASE TO BE 5-1/4" OAK (STAINED).
213	SITTING	CONC.	CARPET TILE	OAK	STAIN	5/8" GYPSUM BOARD	PAINT	EXIST. TO REMAIN	14'-6"	VER. ALL FINISHES W/ TENANT/CONTRACTOR AGREEMENT. BASE TO BE 5-1/4" OAK (STAINED).
214	KITCHEN	CONC.	EPOXY	VINYL	---	5/8" GYPSUM BOARD	PAINT	EXIST. TO REMAIN	14'-6"	VER. ALL FINISHES W/ TENANT/CONTRACTOR AGREEMENT. BASE TO BE 5-1/4" OAK (STAINED).
215	TRAINING	CONC.	CARPET TILE	OAK	STAIN	5/8" GYPSUM BOARD	PAINT	ACT. CLG. TILES	9'-0"	VER. ALL FINISHES W/ TENANT/CONTRACTOR AGREEMENT. BASE TO BE 5-1/4" OAK (STAINED).
216	COPY AREA	CONC.	EPOXY	VINYL	---	5/8" GYPSUM BOARD	PAINT	ACT. CLG. TILES	9'-0"	VER. ALL FINISHES W/ TENANT/CONTRACTOR AGREEMENT. BASE TO BE 5-1/4" OAK (STAINED).
217	IT/STORAGE	CONC.	EPOXY	VINYL	---	5/8" GYPSUM BOARD	PAINT	ACT. CLG. TILES	9'-0"	VER. ALL FINISHES W/ TENANT/CONTRACTOR AGREEMENT. BASE TO BE 5-1/4" OAK (STAINED).

NOTE :  
A) ALL WALL SURFACES SHALL BE SMOOTH, EASILY CLEANABLE, DURABLE LIGHT IN COLOR, CONTINUOUS, AND UNIFORM.

SPECIFICATIONS / NOTES

GENERAL REQUIREMENTS

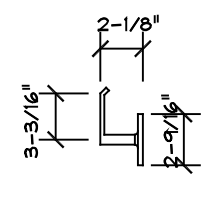
- Contractors shall visit the site for a complete understanding of the scope of work.
- Contractors are to follow codes as applicable for the local governing authorities and shall provide any additional drawings, specifications, cuts, etc., as may be required by them.
- Contractors shall obtain and pay for permits, inspections and fees related to their work. The Owner shall pay for the building permit and any utility connection fees.
- Workmanship shall be of the highest quality. Material, labor, and installation shall be according to standard construction and manufacturer's recommendations.
- Construction operations shall be in accordance with "The Manual for Accident Prevention" and the Occupational Safety and Health Act.
- If a conflict occurs with drawings or field conditions, contact the Owner's Representative before proceeding. Verify dimensions and conditions. Assume full responsibility for same before executing any work. Do not scale drawings.
- Each contractor shall provide daily cleanup of his work in a general manner. Remove debris from the site upon completion.
- Upon substantial completion and acceptance by Owner, Contractors shall provide a written minimum one-year warranty on labor and materials. Any repairs shall be made at not cost to the owner.

CARPENTRY

- Carpentry shall be installed plumb, straight and true. Provide mitered cuts at corners of finished carpentry.
- Wood in contact with concrete or masonry shall be chemically treated with a preservative (not an asphalt product).

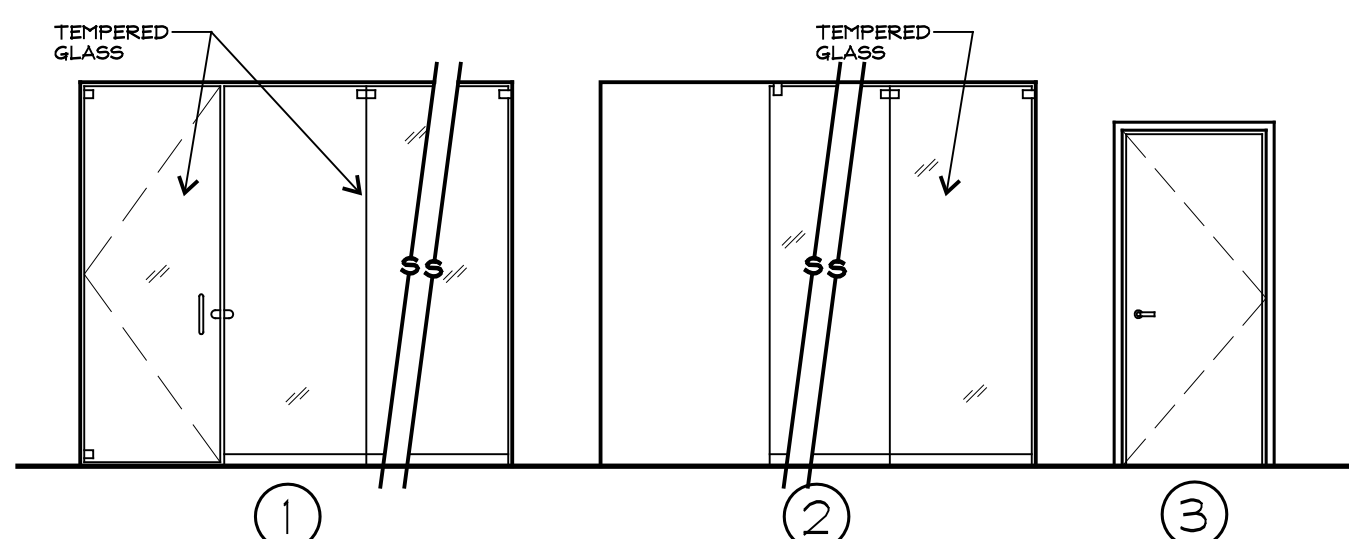
FINISHES (The Contractor/Tenant Agreement shall supersede any conflict with that noted below)

- Installation of finishes shall be during controlled moisture and heating conditions; temperature must be at minimum of 50 degrees F.
- Gypsum wallboard shall be 5/8" with tapered beveled or radial edge. Screw installation and system shall be equal to Gypsum Wallboard Construction as manufactured by National Gypsum Company. Provide metal corner and casing beads.
- Paint shall be equal to Sherwin-Williams recommended specifications. Interior gypsum two (2) coats (flat, primer and finish); remaining areas as per manufacturer's standard specification.
- All knock down and/or welded metal frames to be primed and painted. (verify color w/owner).
- All wood frames to be stained and varnished. (verify color w/owner).
- 3-1/4" vinyl base standard. Any 3-1/4" oak base & 2-1/4" casing to be stained. (ver. color w/owner).
- All 1-3/4"x3'-0"x7'-0" solid oak interior doors to be stained (verify color w/owner). Provide 1" undercut at all doors.
- Carpet to be per building standard. Selection by tenant/owner.
- Hardware lock sets and latch sets shall be commercial grade, lever type by Schlage, D Series, Olympiad or equal. Door A to receive passage hardware, Door B to receive private hardware. Verify style and finish w/owner & tenant agreement.
- Self-closing doors are required on all doors leading to the outside, corridor and all restrooms.
- All exterior doors must close completely w/ no air-gaps.
- Sound attenuation insulation shall be equal to Owens-Corning.
- Interior walls and cig. finish for all halls to be Class B (flame spread 26-75, smoke dev. 0-450). Interior walls and cig. finish for all rooms to be Class C (flame spread 26-200, smoke dev. 0-450). Insulation to have a flame spread rating of 25 and smoke dev. rating of 450.
- Contractor to verify w/ owner layout and material of shelving in all closets.



HARDWARE DETAIL

SCALE: N.T.S.  
ACCESSIBILITY COMPLIANCE (A.D.A. AND STATE OF ILLINOIS ACCESSIBILITY CODE)  
1. ALL INTERIOR DOOR SHALL BE HARDWARE ADJUSTED TO REQUIRE A MAXIMUM OF 5 LB. OPENING PRESSURE AT ANTIPOINT OF SWING.



DOOR TYPES

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

DOOR SCHEDULE

MARK	NOMINAL SIZE	TYPE	MATERIAL	FINISH	FRAME/FINISH	HARDWARE	U-VALUE	REMARKS
(A)	EXIST. TO REMAIN		EXIST. TO REMAIN	EXIST. TO REMAIN	EXIST. TO REMAIN	EXIST. TO REMAIN		EXIST. TO REMAIN
(B)	14'-6"x8'-0"x1/2" MONOLITHIC TEMP. GL. SYS. W/36"W. DR. # 3 EQ. PNLS.	1				H,J		VER. STYLE & MANUF. W/ TENANT
(C)	10'-0"x8'-0"x1/2" MONOLITHIC TEMP. GL. SYS. W/36"W. DR. # 2 EQ. PNLS.	1				H,J		VER. STYLE & MANUF. W/ TENANT
(D)	5'-0"x8'-0"x1/2" MONOLITHIC TEMP. GL. SYS. W/2 EQ. PNLS.	2						VER. STYLE & MANUF. W/ TENANT
(E)	6'-0"x8'-0"x1/2" MONOLITHIC TEMP. GL. SYS. W/2 EQ. PNLS.	1						VER. STYLE & MANUF. W/ TENANT
(F)	3'-0"x7'-0"x1 3/4"	3	SOLID OAK	STAINED	KD METAL/PAINTED	C,J,M,P		FLUSH OAK OR PER CONTRACTOR/OWNER AGREEMENT
(G)	12'-0"x8'-0"x1/2" MONOLITHIC TEMP. GL. SYS. W/36"W. DR. # 3 EQ. PNLS.	1				H,J		VER. STYLE & MANUF. W/ TENANT
(H)	16'-1 1/2"x8'-0"x1/2" MONOLITHIC TEMP. GL. SYS. W/36"W. DR. # 4 EQ. PNLS.	1				H,J		VER. STYLE & MANUF. W/ TENANT
(I)	18'-1"x8'-0"x1/2" MONOLITHIC TEMP. GL. SYS. W/36"W. DR. # 5 EQ. PNLS.	1				H,J		VER. STYLE & MANUF. W/ TENANT
(J)	3'-0"x7'-0"x1 3/4"	3	SOLID OAK	STAINED	KD METAL/PAINTED	A,J,M,P		FLUSH OAK OR PER CONTRACTOR/OWNER AGREEMENT
(K)	12'-0"x8'-0"x1/2" MONOLITHIC TEMP. FOLDING GL. SYS. W/4 EQ. DR. PNLS.	1				H,J		VER. STYLE & MANUF. W/ TENANT. PROVIDE RECESSED FLOOR & BULKHEAD TRACK SYSTEMS.
(L)	3'-0"x8'-0"x1/2" MONOLITHIC TEMP. GL. PANEL	2						VER. STYLE & MANUF. W/ TENANT

HARDWARE DESCRIPTION

MARK	FUNCTION	MANUFACTURER	REMARKS
A	PASSAGE SET	SCHLAGE OR EQUAL	ALWAYS UNLOCKED
B	PRIVACY LOCKSET	SCHLAGE OR EQUAL	PUSH BUTTON LOCKING; TURNING INSIDE LEVER RELEASES PUSH BUTTON. UNLOCKED FROM THE OUTSIDE WITH A SMALL SCREWDRIVER OR SPECIAL TOOL.
C	ENTRANCE LOCKSET	SCHLAGE OR EQUAL	DEADBOLT UNLOCKED BY KEY FROM OUTSIDE WHEN LOCKED BY TURN KNOB ON INSIDE. INSIDE LEVER OR HANDLE ALWAYS RETRACTS LATCHBOLT.
D	SECURITY LOCKSET	SCHLAGE OR EQUAL	OUTSIDE LEVER LOCKED AND UNLOCKED BY KEY. INSIDE LEVER ALWAYS RETRACTS LATCHBOLT.
E	PANIC BAR LOCKSET	STANLEY OR EQUAL	CRASH BAR PANIC HARDWARE ON INSIDE, IMMOVABLE LEVER OR U-SHAPED PULL BAR AND KEYED DEADBOLT ON OUTSIDE. WHEN LOCKED, KEY OUTSIDE OR CRASH PANIC BAR INSIDE RETRACTS DEADBOLT AND LATCHBOLT SIMULTANEOUSLY
F	PANIC EXIT LOCKSET	ADAMS RITE OR EQUAL	WHEN DEADBOLT IS LOCKED, KEY OUTSIDE OR LEVER INSIDE RETRACTS DEADBOLT AND LATCHBOLT SIMULTANEOUSLY.
G	STOREFRONT LOCKSET	KAMNEER OR EQUAL	DEADBOLT UNLOCKED BY KEY FROM OUTSIDE WHEN LOCKED BY TURN KNOB ON INSIDE. PULL U-SHAPED HANDLE ON OUTSIDE AND PUSH BAR OR PUSH PLATE ON INSIDE OPENS DOOR WITHOUT USE OF LATCHBOLT.
H	PULL HANDLE/ PUSH PLATE	KAMNEER OR EQUAL	
J	HINGES	HAGER OR EQUAL	INCLUDING 3 SILENCERS PER DOOR FRAME
K	DOOR SWEEP	STANLEY OR EQUAL	
L	RAIN DRIP SCREED	STANLEY OR EQUAL	
M	CLOSER	LCN CLOSERS OR EQUAL	SELF CLOSER W/ NON-HOLD-OPEN ARM HINGE PER A.D.A. REQUIREMENTS.
N	THRESHOLD	ZERO INTL. OR EQUAL	PER A.D.A. AND I.A.C. REQUIREMENTS
O	WEATHER STRIPPING	ZERO INTL. OR EQUAL	
P	STOP	BROOKLINE IND. OR EQUAL	PER A.D.A. AND I.A.C. REQUIREMENTS

DOOR NOTES:

- N/A 1. TYPICAL INTERIOR HOLLOW METAL FRAMES: 18 GA. COLD-ROLLED STEEL, KNOCK-DOWN TYPE, WITH REINFORCED BUTTERS, EQUAL TO STEELFRONT SERIES DMS-4 "READY-SET" DRYWALL FRAMES. PROVIDE 18 GA. DRYWALL FRAME ANCHORS WELDED TO FRAME, 4 ANCHORS PER JAMB MINIMUM.
- N/A 2. TYPICAL EXTERIOR HOLLOW METAL FRAMES: 16 GA. HOT-DIPPED GALVANIZED COLD-ROLLED STEEL, FULLY WELDED, PROVIDE MINIMUM OF 4 GALV. WIRE TYPE, CORRUGATED SHEET METAL, OR EXPANSION TYPE ANCHORS PER JAMB.
- N/A 3. ALUMINUM EXTERIOR STOREFRONT DOORS/WINDOWS & FRAMES TO BE EXTRUDED ANODIZED ALUMINUM A-A-6063-T5 ALLOY, THERMALLY BROKEN, WITH ALL REQUIRED SYSTEM COMPONENTS. PROVIDE CONCEALED PAINTING OF FINISHED END CAPS. DOORS(S) SHALL INCLUDE ADAMS RITE OR EQ. MS-1890 DEADLOCK/LATCH COMBINATION W/460 LEVER, THRESHOLD, WEATHERSTRIPPING, & CLOSURE W/ARY TO PREVENT THE WIND FROM OPENING THE DOOR. MANUF. SHALL BE KAMNEER MEDIUM STYLE, STANDARD DUTY OR EQ. W/ 1" INSULATED, TEMPERED (WHERE APPLICABLE) TINTED GLASS.
- N/A 4. TYPICAL INTERIOR SOLID WOOD DOORS: 1-3/4" THICK SOLID RED OAK VENEER, SIX PANEL TYPE W/ALL EDGES SEALED IN SOLID WOOD OAK VENEER FRAME W/THREE HINGES MIN.
- N/A 5. TYPICAL INTERIOR HOLLOW METAL DOORS: 1-3/4" THICK W/ 18 GA. COLD-ROLLED STEEL FACES, FLUSH TYPE W/ TOP, BOTTOM, AND ALL EDGES FULLY WELDED AND GROUND SMOOTH.
- N/A 6. TYPICAL EXTERIOR HOLLOW METAL DOORS: 1-3/4" THICK INSULATING ASSEMBLY, WITH 18 GA. COLD-ROLLED HOT-DIPPED GALVANIZED SHEET STEEL FACES, FLUSH TYPE WITH TOP, BOTTOM AND ALL EDGES FULLY WELDED TO ALLOW GROUND SMOOTH. PROVIDE WEATHER STRIPPING AT BOTTOM TO ALLOW ESCAPE OF ENTRAPPED MOISTURE. DOOR PANEL SHALL PROVIDE THERMAL INSULATING RESISTANCE FACTOR OF NOT LESS THAN R-11.
- N/A 7. SECTIONAL O.H. DOORS (STANDARD): 1. OVERHEAD DOOR CORPORATION SERIES "520" (OR APPROVED EQUAL) HEAVY DUTY ALUMINUM SECTIONAL DOOR W/ 1/4" CLEAR TEMPERED GLAZING AND WITH 0.08" ALUMINUM PANELS IN BOTTOM. PROVIDE EXHAUST PORT (WHERE APPLICABLE) IN CENTER PANEL AS SHOWN. 2. EACH DOOR SECTION SHALL HAVE ROLLERS AT TOP AND BOTTOM. 3" GALVANIZED STEEL TRACK (DOORS SHALL BE HIGH TRACK TYPE) DOORS SHALL BE PROVIDED WITH AUTOMATIC OPENERS WITH ELECTRIC TROLLEY TYPE OPERATION (OVERHEAD DOOR MODEL JST.) AND POST TENSION DRUM. PROVIDE WEATHERSTRIPPING AT SILL, HEAD AND JAMB TO PREVENT CONTACT OF ALUMINUM TO STEEL.
- N/A 8. SECTIONAL O.H. DOORS (GLASS): 1. OVERHEAD DOOR CORPORATION SERIES "520" (OR APPROVED EQUAL) HEAVY DUTY ALUMINUM SECTIONAL HI-LIFT DOOR W/ 1/4" CLEAR TEMPERED GLAZING PANELS. 2. EACH DOOR SECTION SHALL HAVE ROLLERS AT TOP AND BOTTOM & ONE 3" 20GA. STRUT PER SECT. LIFT HANDLE & STEP PLATE EA. SIDE OF BOTTOM PANEL. TORSION SPRING MOUNTED TO TOP INSIDE WALL. 3" GALVANIZED STEEL TRACK. PROVIDE GRAY WEATHERSTRIPPING AT SILL, HEAD AND JAMB TO PREVENT CONTACT OF ALUMINUM TO STEEL.
4. LOCKING REQUIREMENTS: 1. ALL EXTERIOR SINGLE SWING DOORS, OR ACTIVE LEAF OF A PAIR OF DOORS SHALL BE EQUIPPED WITH: A) DEADBOLTS WITH 1" MIN. THROW AND 5/8" MINIMUM EMBEDMENT AND HAVE HARDENED INSERTS. SCHLAGE B60P DEAD BOLT WITH OUTSIDE COVER PLATE. B) LATCHING DEVICES SHALL HAVE DEAD LATCH IF MECHANISM HAS A KEY LOCKING FEATURE. C) HOOK SHAPED OR EXPANDING LUG DEAD BOLTS SHALL HAVE A MINIMUM THROW OF 3/4". D) DEAD BOLTS OF LOCKS WHICH AUTOMATICALLY ACTIVATE TWO OR MORE DEAD BOLTS SHALL EMBED AT LEAST 1/2".
- (9. CONTINUED) 2. MANUALLY OPERATED EDGE MOUNTED FLUSH BOLTS AND SURFACE BOLTS ARE PROHIBITED. WHEN DOORS ARE USED IN PAIR AUTOMATIC FLUSH BOLTS ARE PERMITTED. PROVIDED THERE IS NO DOOR KNOB OR SURFACE MOUNTED HARDWARE AND THE UNLATCHING OF ANY LEAF REQUIRES ONLY A SINGLE ACTION. 3. LITES GREATER THAN 6" DIMENSION IN DOORS SHALL BE TEMPERED, LAMINATED OR GUARDED BY BARS, SCREENS OR GRILLS IN AN APPROVED MANNER. ALL GLAZING IN DOORS SHALL BE SAFETY GLAZING. 4. USE NONREMOVABLE PINS FOR HINGES ACCESSIBLE FROM THE EXTERIOR. 5. USE CYLINDER GUARDS ON CYLINDER LOCKS WHEN THE CYLINDER PROJECTS BEYOND THE OUTSIDE FACE OF THE DOOR. 10. A.D.A. REQUIREMENTS: 1. DOOR HARDWARE SHALL BE OPERABLE BY A SINGLE EFFORT WITH NO GRASPING OR WRIST MOVEMENT RE. MAXIMUM PRESSURES TO SET DOOR IN MOTION SHALL BE: -EXTERIOR DOORS: EIGHT AND ONE HALF (8.5) POUNDS -INTERIOR DOORS: FIVE (5) POUNDS -FIRE DOORS: FIFTEEN (15) POUNDS 2. ALL DOORS SHALL PROVIDE MINIMUM 32" CLEAR OPENING WHEN DOOR IS OPEN TO 90 DEGREES. 3. DOOR HARDWARE SHALL BE OF THE LEVER OR THE PUSH-PULL TYPE WITH NO TIGHT GRASPING OR PINCHING OR TWISTING OF THE WRIST TO OPERATE ON THE EGRESS SIDE. THUMB TURNED DEADBOLTS ARE NOT PERMITTED. 4. ALL EGRESS SIDE OF EXIT DOORS TO OPERATE WITHOUT THE USE OF A KEY, TOOL, OR SPECIAL KNOWLEDGE OR EFFORT FOR OPERATION FROM INSIDE OF THE BUILDING. EGRESS DOORS SHALL BE OPERABLE WITH NO MORE THAN ONE RELEASING OPERATION. 5. EDGE SETS, LOCK SETS, AND PUSH/PULL SHALL BE MOUNTED AT A HEIGHT TO MEET A.D.A. ACCESSIBILITY STANDARDS. 6. SILENCERS FOR DOOR CLOSERS SHALL BE ADJUSTED SO THAT EACH AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES FROM THE LATCH.

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CHICAGO COMMERCIAL CONSTRUCTION  
18660 GRAPHICS DRIVE, SUITE 200, TINLEY PARK, IL

ISSUE FOR PERMIT:	
ISSUES	2100

DRAWING TITLE:  
RM. FINISH SCHED.,  
DR. SCHED., NOTES  
& DETAILS

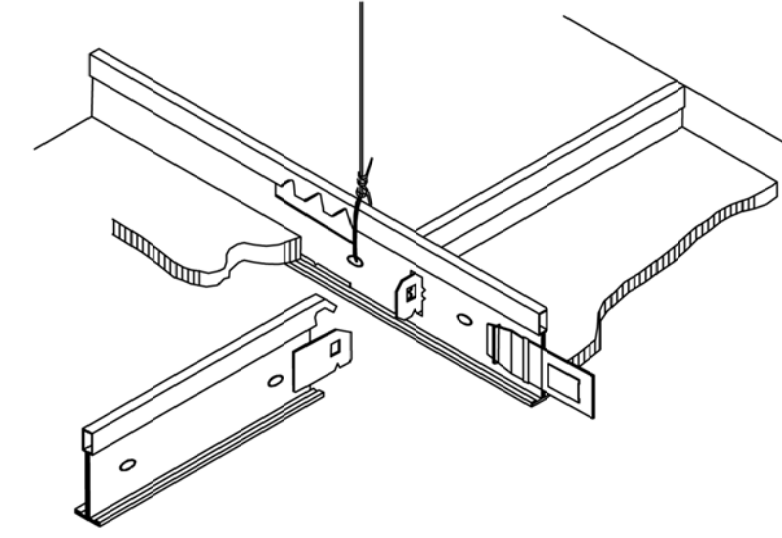
A-3

REFLECTED CEILING SYMBOLS

2'-0"x2'-0" SUSPENDED ACOUSTICAL TILE CEILING PANELS (MIN. CLASS C RATING) IN EXPOSED PRE-FINISHED MTL. LAY-IN SUSPENSION GRID CLG. OVERSIZED GRID BEAM SYSTEM TO BE USED PER OWNERS REQUEST WHERE SHOWN. ON PLAN, GRID TO BE SUSPENDED FROM EXIST. STRUCTURE ABOVE. GRID TO BE SUPPORTED @ ALL 4 CORNERS OF EA. LIGHTING FIXT. VERIFY PATTERN W/TENANT.

4'-0"x4'-0" SUSPENDED TILE CEILING, GRID TO BE EXPOSED PRE-FINISHED MTL. LAY-IN SUSPENSION GRID CLG. OVERSIZED GRID BEAM SYSTEM TO BE USED PER OWNERS REQUEST WHERE SHOWN. ON PLAN, GRID TO BE SUSPENDED FROM EXIST. STRUCTURE ABOVE. GRID TO BE SUPPORTED @ ALL 4 CORNERS OF EA. LIGHTING FIXT. VERIFY PATTERN W/TENANT.

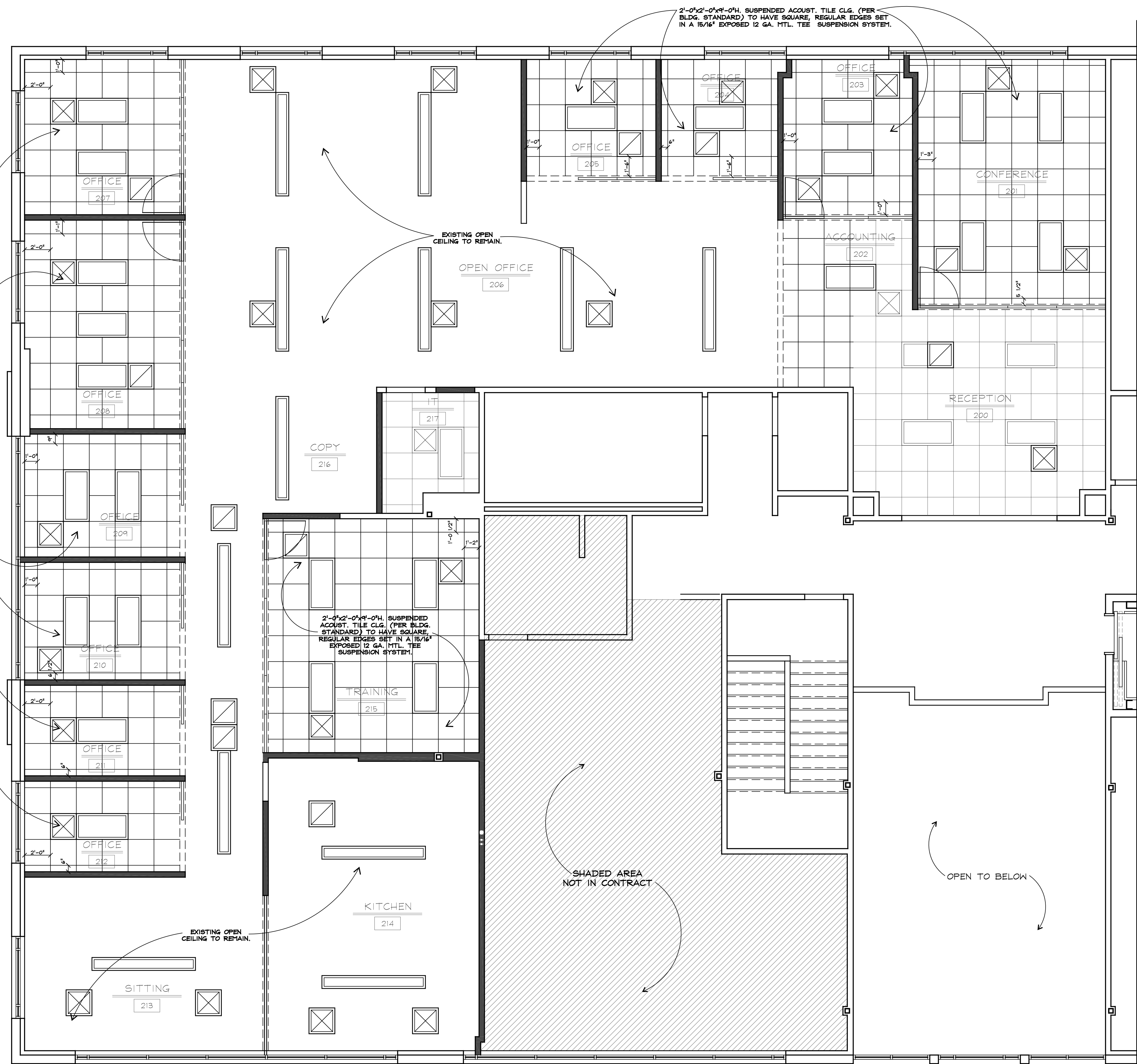
DRYWALL CEILING.



SUSPENSION SYSTEM DETAILS:  
 PROVIDE MAIN RUNNERS CONTINUOUS IN LINE WITH EACH SIDE OF RECESSED LIGHT AND PARALLEL MAX. 4'-0" ON CENTERS IN THE CEILING FIELD. CROSS RUNNERS SHALL BE MAX. 2'-0" ON CENTERS. PROVIDE ACCESSIBLE HOLD-DOWN CLIPS FOR ACOUSTIC TILES LESS THAN 1 LB./SQ. FT. PROVIDE MINIMUM 12 GAUGE GALVANIZED STEEL HANGER WIRE MAXIMUM 4'-0" ON CENTERS ALONG MAIN RUNNERS.

SUSPENDED CEILING DETAIL

SCALE: N.T.S.



REFLECTED CEILING PLAN  
 SCALE: 1/4"=1'-0"

LEGEND

- EXIST. DROP CLG. GRID
- NEW DROP CLG. GRID (MATCH EXIST.)

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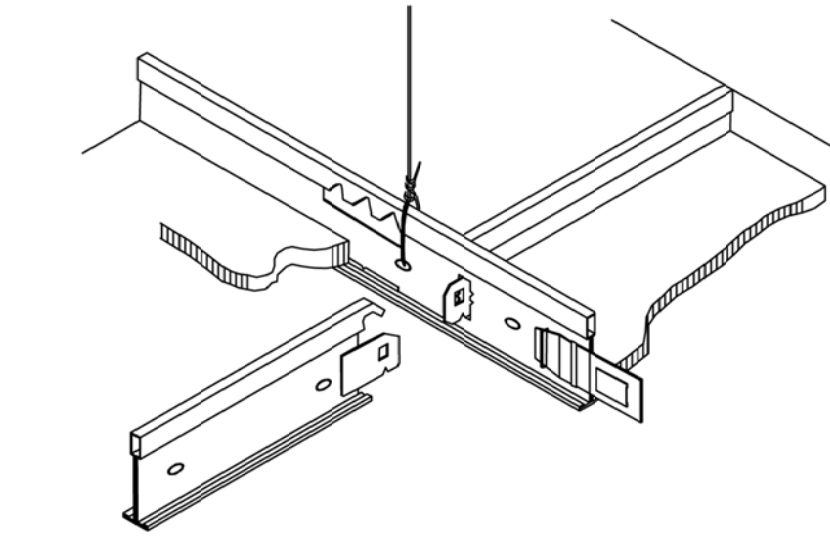
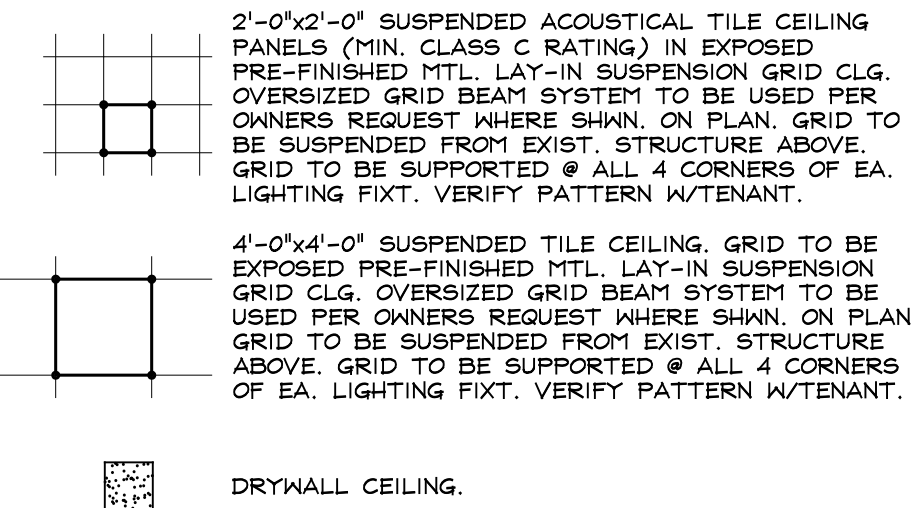
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 REFLECTED CLG. PLAN, NOTES & DETAIL

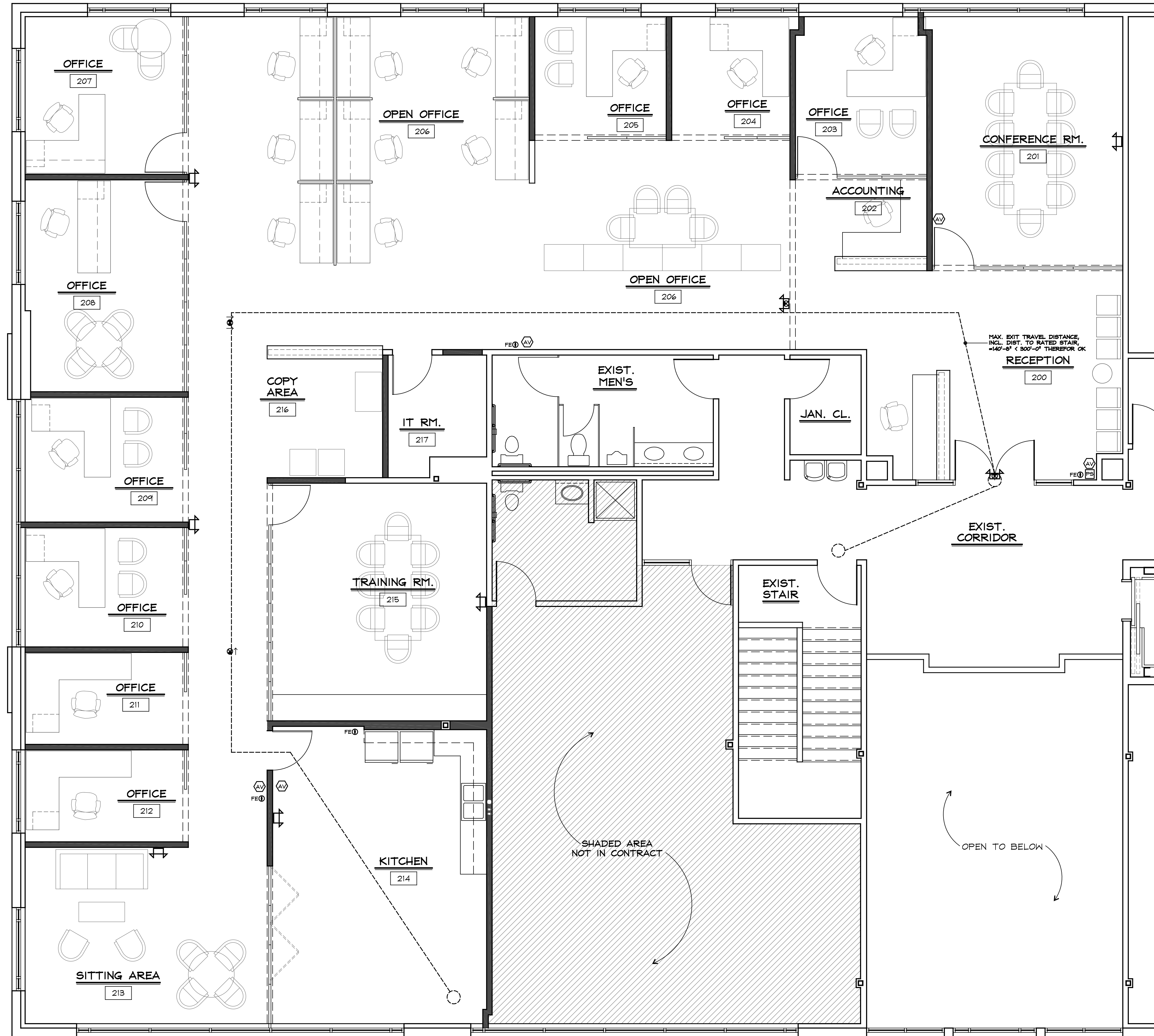
A-4

REFLECTED CEILING SYMBOLS



SUSPENDED CEILING DETAIL

SCALE: N.T.S.



FURNITURE LAYOUT/ LIFE SAFETY PLAN

SCALE :

1/4"=1'-0"

LEGEND

- EXIST. TO REMAIN
- NEW CONSTRUCTION

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DRAWING TITLE:  
 FURNITURE LAYOUT/  
 LIFE SAFETY PLAN,  
 ACCESSIBILITY  
 NOTES & DETAILS

LS-1

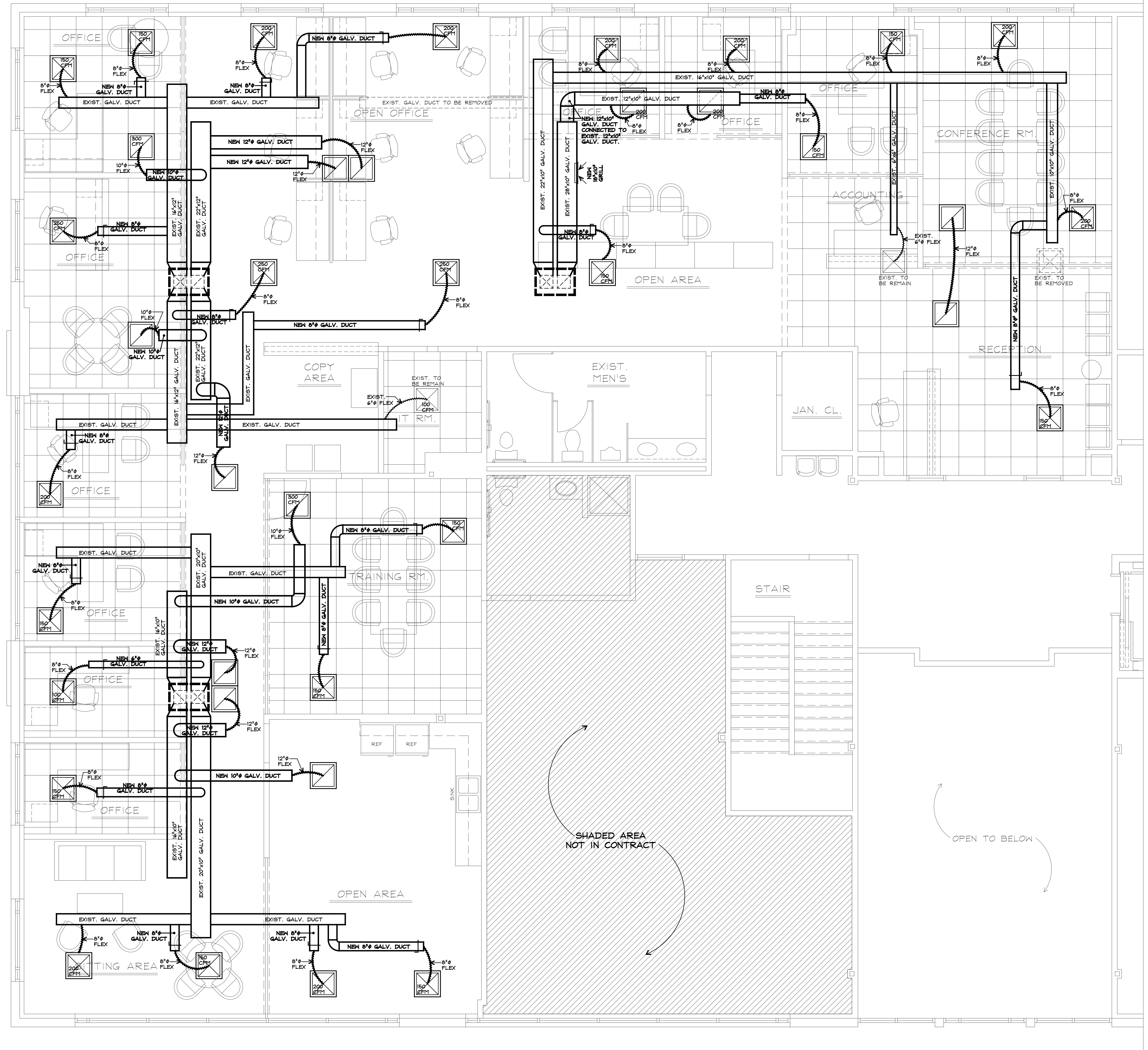
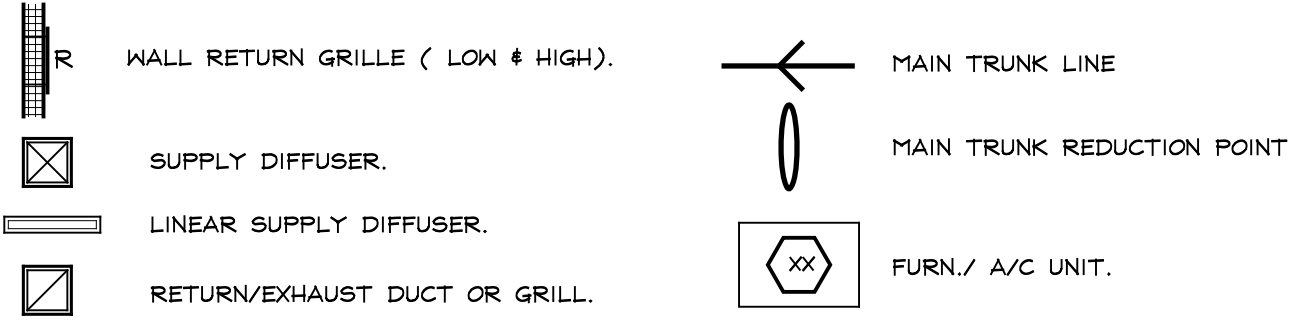
**HVAC NOTES**

ALL EXISTING FURNACE UNITS TO REMAIN. CUT SHEETS AND SPECIFICATIONS FOR EXISTING UNITS TO BE PROVIDED BY OWNER OR HVAC CONTRACTOR UNDER A SEPARATE SUBMITTAL AT A LATER DATE BUT BEFORE CONSTRUCTION COMMENCES. EXISTING SUPPLY AND RETURN MAIN TRUNK LINES TO REMAIN AND BE MODIFIED AS NECESSARY TO ACCOMMODATE NEW CONSTRUCTION.

EXIST. ROOFTOP UNIT IS CURRENTLY DESIGNED TO PULL COMBUSTION AIR DIRECTLY FROM OUTSIDE AS REQUIRED BY CODE.

HVAC CONTRACTOR TO CONFIRM AND MODIFY IF NEEDED EXIST. ROOFTOP UNITS ARE PROVIDING 20% CFM MIN. FRESH AIR DIRECTLY FROM OUTSIDE INTO RETURN AIR DUCT AS REQUIRED BY CODE.

**HVAC SYMBOLS**



**HVAC PLAN**  
 SCALE : 1/4"=1'-0"  
 NORTH

**ADAIR ARCHITECTS, INC.**  
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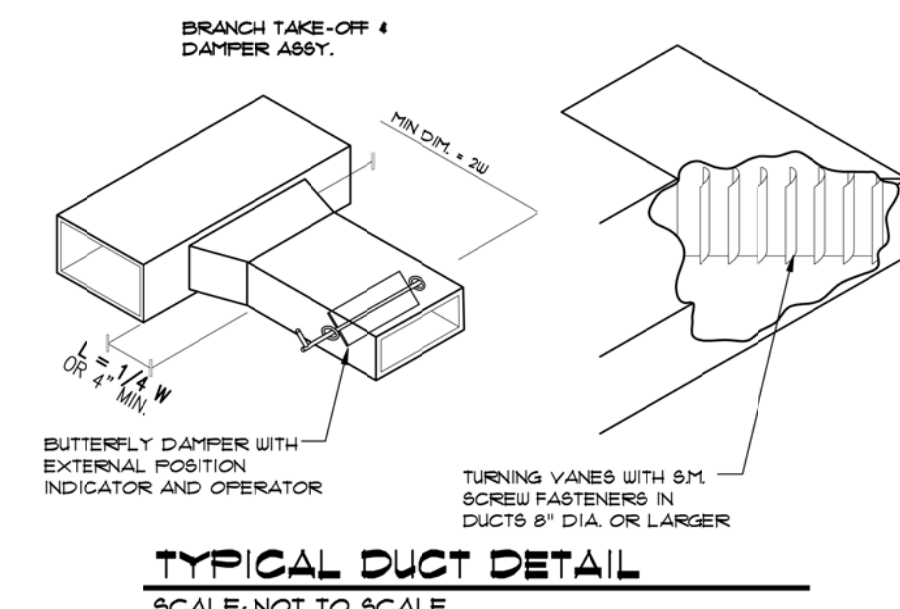
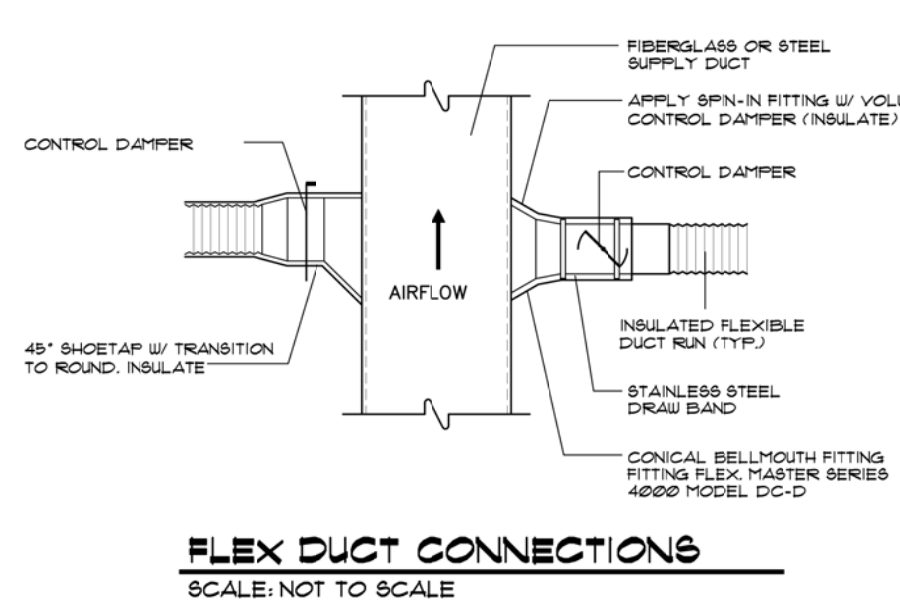
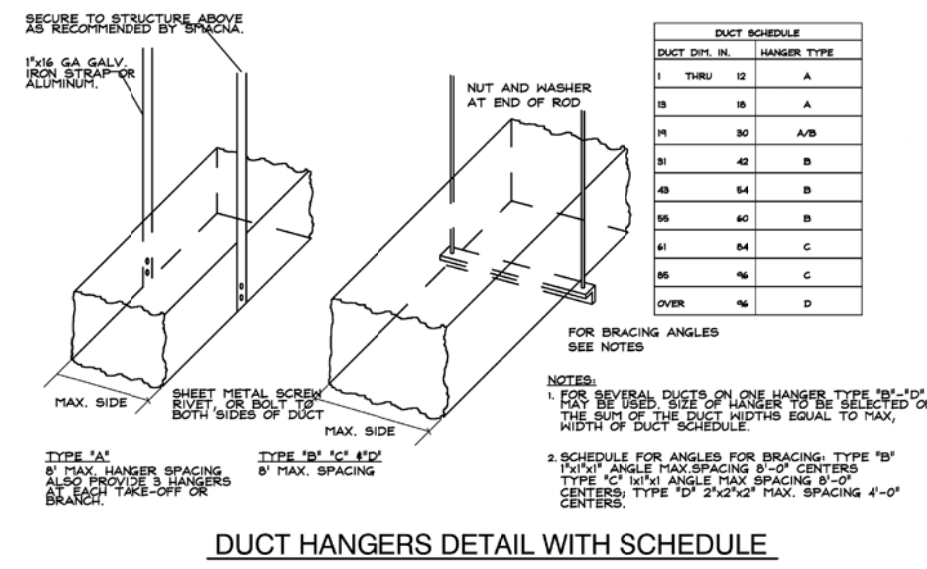
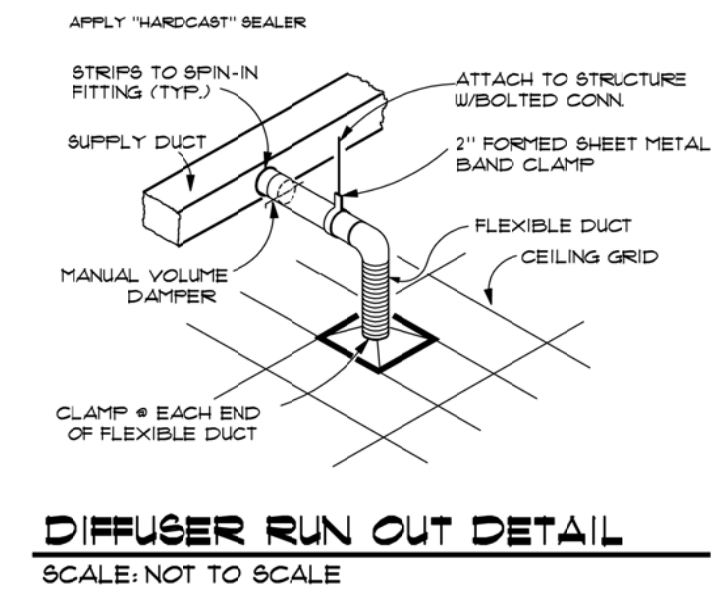
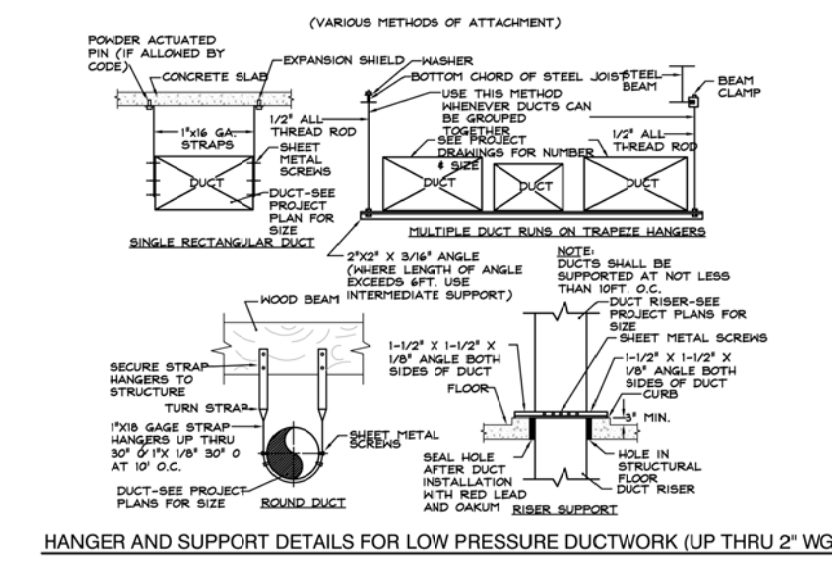
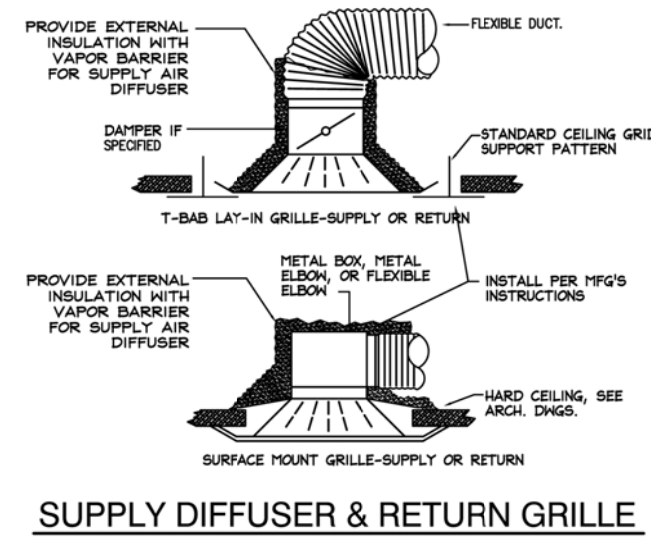
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DRAWING TITLE:  
 HVAC PLAN, NOTES & DETAILS

M-1

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MISC. HVAC DETAILS



H.V.A.C NOTES

- SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED W/ R-8 MIN. WHERE LOCATED IN UNCONDITIONED SPACES AND/OR OUTSIDE THE BLDG. ENVELOPE.
- ALL GAS FIRED EQUIPMENT SHALL BE "AMERICAN GAS ASSOCIATION" APPROVED.
- HVAC CONTRACTOR TO COORDINATE LOCATIONS OF GRILLS AND DIFFUSERS WITH REFLECTED CEILING PLAN.
- ALL GRILLS AND DIFFUSERS SHALL BE OF SIZE, CAPACITY, AND FREE AREA AS SHOWN PLAN.
- ALL GRILLS AND DIFFUSERS SHALL HAVE A FACTORY APPLIED COAT OF WHITE BAKED ON ENAMEL FOR USE IN SUSPENDED CEILING SYSTEMS.
- EQUIPMENT SPECIFIED, WHETHER LISTED ON EQUIPMENT SCHEDULES OR IN SPECIFICATIONS, ARE THE BASE SELECTIONS TO WHICH ALL SIZINGS HAVE BEEN DESIGNED FROM- ANY DEVIATION FROM THE BASE REQUIRES THE CONTRACTOR TO NOTIFY THE ARCHITECT IMMEDIATELY IN ORDER TO MAKE ADJUSTMENTS AS REQUIRED.
- HVAC CONTRACTOR TO CONSULT ROOF FRAMING FOR EXACT LOCATION AND SIZE OF ALL NEW ROOF OPENINGS AND IF NECESSARY CONSULT WITH DECKING AND/OR STEEL CONTRACTOR W/QUESTIONS. ALL PENETRATIONS TO BE FLASHED & SEALED PER MANUF. SPECS OF ITEM DOING PENETRATION.
- ALL FLUES TO EXTEND MINIMUM 6'-0" ABOVE ROOF.
- ALL BRANCH DUCT WORK TO BE SUPPLIED WITH SPLITTER DAMPERS.
- CONDENSATE PIPE TO BE 3'-0" FROM UNIT AND TRAPPED.
- HVAC POWER WIRING BY ELECTRIC CONTRACTOR- CONTROL WIRING BE HVAC CONTRACTOR.
- HVAC CONTRACTOR TO PROVIDE MINIMUM ONE YEAR GUARANTEE ON ALL WORK.
- FIRST 10'-0" OF SUPPLY OR RETURN DUCT FROM UNIT SHALL BE LINED INTERNALLY WITH 3/4"-1" DUCT LINING.
- ALL PREFAB ROOF CURBS TO BE FURNISHED AND INSTALLED BY HVAC CONTRACTOR.
- HVAC CONTRACTOR SHALL PROVIDE HEAT SMOKE DETECTORS IN ALL R.A. DUCT SYSTEMS OVER 2000 CFM.
- THE ENTIRE HVAC INSTALLATION SHALL CONFORM TO ALL APPLICABLE CODES IN EFFECT - INCLUDING THE MOST CURRENT ISSUE OF ASHRAE REQUIREMENTS AS A MINIMUM.
- RIGGING OF A/C EQUIPMENT ON ROOFTOP TO BE BY THE HVAC CONTRACTOR.
- COORDINATE CLOSELY WITH OTHER CONTRACT DOCUMENTS AND DRAWINGS INCLUDING THE REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS.
- PROVIDE FIRE DAMPERS IN ALL DUCTWORK ONLY AS REQUIRED BY ALL STATE AND LOCAL CODES.
- N / A THE HVAC CONTRACTOR SHALL FURNISH AND INSTALL 1/2" STEEL SECURITY BARS AT 12" O.C. EACH WAY ON ALL CURB OPENINGS FOR ROOFTOP UNITS AND OPENINGS IN GENERAL THAT ARE 12" SQUARE OR LARGER.
- THE HVAC CONTRACTOR SHALL NOTIFY THE LOCAL GAS COMPANY OF THE INTERIOR GAS PIPING SYSTEM AND COORDINATE THE ACTUAL GAS SERVICE AND METER LOCATION WITH THE GAS COMPANY.
- PROVIDE AND WIRE ALL SMOKE DETECTORS FOR HVAC UNITS IN ACCORDANCE WITH NFPA 90A, INTERNATIONAL MECH. CODE, ARTICLE 3, SECTION M-307.0 "SYSTEM CONTROL" AND ALL APPLICABLE STATE AND LOCAL CODES.
- THE MECHANICAL SYSTEM AND INSTALLATION MUST BE IN ACCORDANCE WITH LATEST INTERNATIONAL MECH. CODE FOR THE REQUIREMENTS OF SYSTEMS CONTROL OF AIR DISTRIBUTION SYSTEM M-309, AND CHAPT. 3, AIR DISTRIBUTION SYSTEMS.
- CONCEALED GAS PIPING SHALL NOT BE RUN IN SOLID PARTITIONS UNLESS PROTECTED FROM PHYSICAL DAMAGE.
- SEE ELECTRICAL SHEETS FOR ANY TOILET ROOM EXHAUST FAN.
- ALL DUCTS SHALL BE FABRICATED AND INSTALLED PER LATEST EDITION OF THE SPACNA LOW VELOCITY DUCT MANUAL.
- ROUND FLEXIBLE DUCTWORK CONNECTING TO INDIVIDUAL DEVICES CANNOT EXCEED SIX (6) FEET IN TOTAL LENGTH WITHOUT ANY CRIMPS.
- ALL SINGLE STAGE HEATING UNITS ARE TO BE FURNISHED AND INSTALLED BY HVAC CONTRACTOR. PLUMBING CONTRACTOR TO FURNISH AND INSTALL COMPLETE GAS PIPING SYSTEM, MAKE ALL FINAL GAS PIPING CONNECTIONS, AND THE INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODE REQUIREMENTS.
- SUPPLY DUCTS TO HAVE AN ADEQUATE NUMBER OF APPROVED SMOKE DETECTORS. SMOKE DETECTORS SHALL BE CONNECTED TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR.
- N / A ROOF TOP UNIT DOCUMENTATION INDICATING APPROVAL FOR R.T.U. EXTERIOR USE WILL BE PROVIDED BY MECHANICAL CONTRACTOR TO BUILDING OFFICIAL.
- MANUFACTURER'S HEATING APPLIANCES' INSTALLATION INSTRUCTIONS WILL BE PROVIDED BY MECHANICAL CONTRACTOR TO BUILDING OFFICIAL.
- ELECTRICAL CONTRACTOR TO PROVIDE INDIVIDUAL DISCONNECT SWITCH FOR EACH CONDENSING UNIT.
- N / A ANY ROOF TOP UNIT 2000 CFM OR LARGER SHALL HAVE DUCT SMOKE DET. INSTALLED IN THE RETURN AIR DUCT PROPERLY CONNECTED TO THE FACP AND SHALL CAUSE AUTO SHUT DOWN OF RTU WHEN ACTIVATED AND AUTO RESTART WHEN FACP CLEARS. WAITING FOR UNIT(S) TO CYCLE IS UN-ACCEPTABLE.
- ALL NEW DUCT WORK PROVIDED TO HAVE PAINT GRIP APPLIED TO RECEIVE "DRY FALL" PAINT BY GLIDDEN OR EQUAL. COLOR BY OWNER.

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**CHICAGO COMMERCIAL CONSTRUCTION**  
18660 GRAPHICS DRIVE, SUITE 200, TINLEY PARK, IL

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DRAWING TITLE:  
HVAC NOTES & DETAILS

M-2

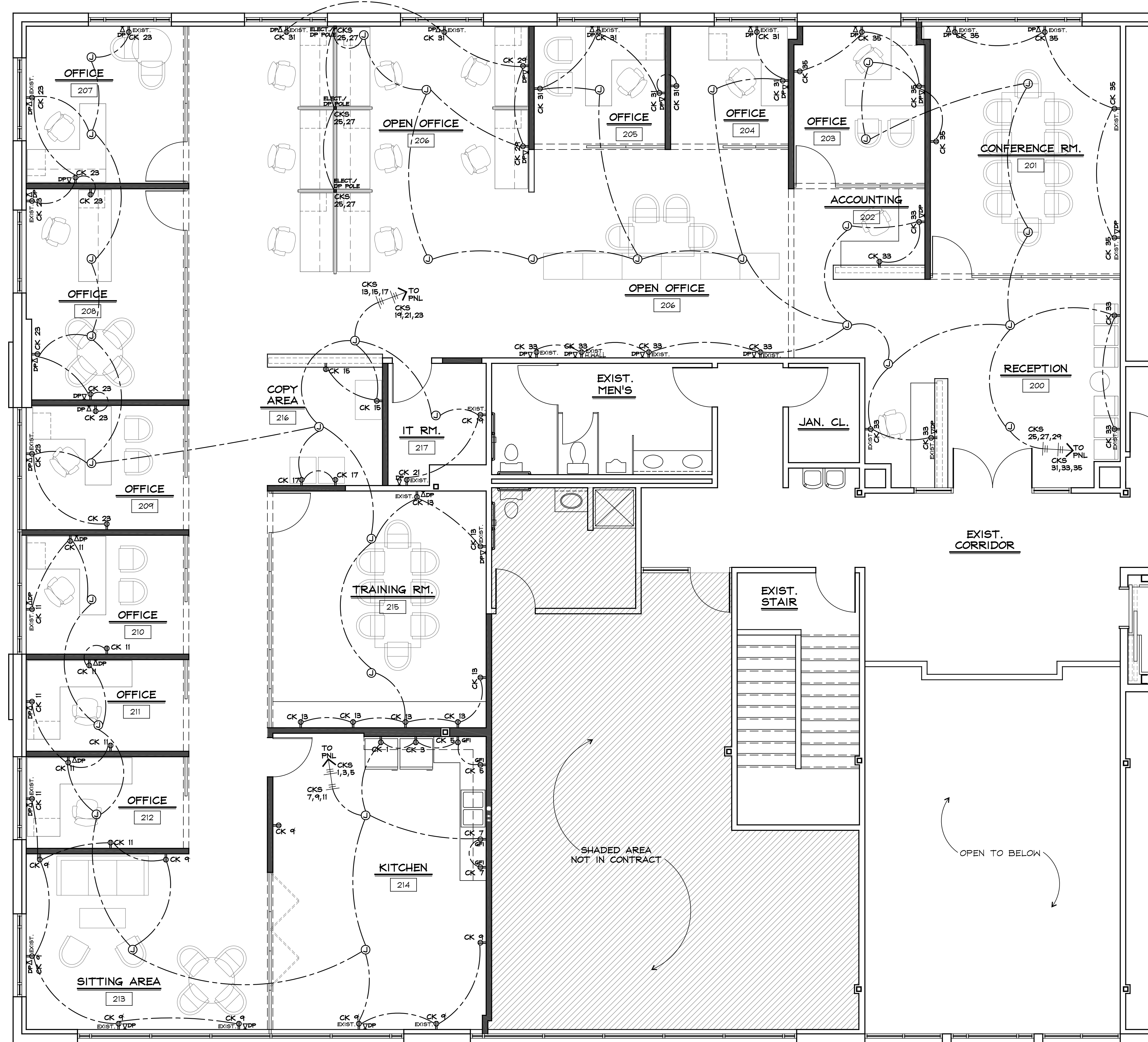
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# ELECTRICAL/ FIRE SYMBOLS

- |                                                                                                                                                                                             |                                                                                                                                                           |  |                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------|
|                                                                                                                                                                                             | LIGHT FIXTURE. (DENOTATION = FIXT. TYPE/PANEL LOCATION + CIRCUIT NO., SWITCH LOCATION)                                                                    |  | SINGLE RECEPTACLE.                                                        |
|                                                                                                                                                                                             | WALL MOUNTED LIGHT FIXTURE.                                                                                                                               |  | DUPLEX RECEPTACLE.                                                        |
|                                                                                                                                                                                             | TRACK LIGHTING FIXTURE                                                                                                                                    |  | DUPLEX RECEPTACLE, WITH GROUND FAULT INTERRUPT.                           |
|                                                                                                                                                                                             | CEILING FAN FIXTURE                                                                                                                                       |  | DUPLEX RECEPTACLE, SEPARATE CIRCUIT.                                      |
|                                                                                                                                                                                             | LIGHT SWITCH.                                                                                                                                             |  | QUAD RECEPTACLE                                                           |
| NOTE: ALL SWITCHES ON PLAN CORRESPOND WITH A LETTER (SHOWN IN SYMBOL LIST ABOVE AS "X"). THESE LETTERS MATCH WITH THE LETTER ON THE FIXTURES (ALSO SHOWN AS "X" ABOVE) THAT THEY SWITCH TO. |                                                                                                                                                           |  |                                                                           |
|                                                                                                                                                                                             | FLUORESCENT LIGHTING FIXTURE (RECESSED) PROVIDE HANGERS AT ALL SIDES OF FIXTURES. (DENOTATION = FIXT. TYPE/PANEL LOCATION + CIRCUIT NO., SWITCH LOCATION) |  | TELEVISION JACK (RG6).                                                    |
|                                                                                                                                                                                             | EXHAUST FAN (100 CFM @ TOILET).                                                                                                                           |  | DATA PORT JACK (3'DP.) CONTAINS 2 NETWORK LINES (CAT. 5) & 4 PHONE LINES. |
|                                                                                                                                                                                             | EXHAUST FAN/LIGHT COMBINATION.                                                                                                                            |  | SPRINKLER SUPPLIED BY DOMESTIC WATER SUPPLY (@ EA. HHH LOCATION).         |
|                                                                                                                                                                                             | EXIT SIGN W/ 90 MIN. BATTERY BACK-UP.                                                                                                                     |  | FIRE EXTINGUISHER                                                         |
|                                                                                                                                                                                             | EMERGENCY LIGHT W/ 90 MIN. BATTERY BACKUP.                                                                                                                |  | FIRE STROBE                                                               |
|                                                                                                                                                                                             |                                                                                                                                                           |  | FIRE ALARM PULL STATION                                                   |
|                                                                                                                                                                                             |                                                                                                                                                           |  | SMOKE ALARM, 110 VOLT, WIRED IN SERIES TO EXIST. FIRE PANEL               |
|                                                                                                                                                                                             |                                                                                                                                                           |  | EMERGENCY LIGHT/EXIT SIGN COMBO W/ 90 MIN. BATTERY BACKUP.                |

## ADDITIONAL NOTES:

- PROVIDE COPPER CONDUCTOR BRANCH CIRCUIT WIRING FOR 20AMP-125VMS IN 3/4" MIN.
- FAMILIARIZE YOURSELF WITH LOCAL REQUIREMENTS IN REGARDS TO CLEARANCES, DISTANCES TO BE MAINTAINED BEFORE INSTALLING SERVICE EQUIP. & OBTAIN PRIOR APPROVAL.
- ALL CIRCUITS AND CIRCUIT MODIFICATIONS MUST BE LEGIBLY IDENTIFIED AS TO THEIR CLEAR, EVIDENT, AND SPECIFIC PURPOSE. THE IDENTIFICATION MUST INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS, AND THE IDENTIFICATION MUST BE ON A CIRCUIT DIRECTORY LOCATED ON THE FACE OR INSIDE OF THE DOOR OF THE PANELBOARD.
- E.C. SHALL VERIFY EXISTING PANEL AND CIRCUIT BREAKERS, REUSE EXIST. AS NECESSARY.



**ELECTRICAL POWER PLAN**  
SCALE: 1/4" = 1'-0"

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**CHICAGO COMMERCIAL CONSTRUCTION**  
18660 GRAPHICS DRIVE, SUITE 200, TINLEY PARK, IL

ISSUES
2100

DRAWING TITLE:  
POWER PLAN,  
ELECT. SYMBOLS

**E-1**

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# ELECTRICAL/ FIRE SYMBOLS

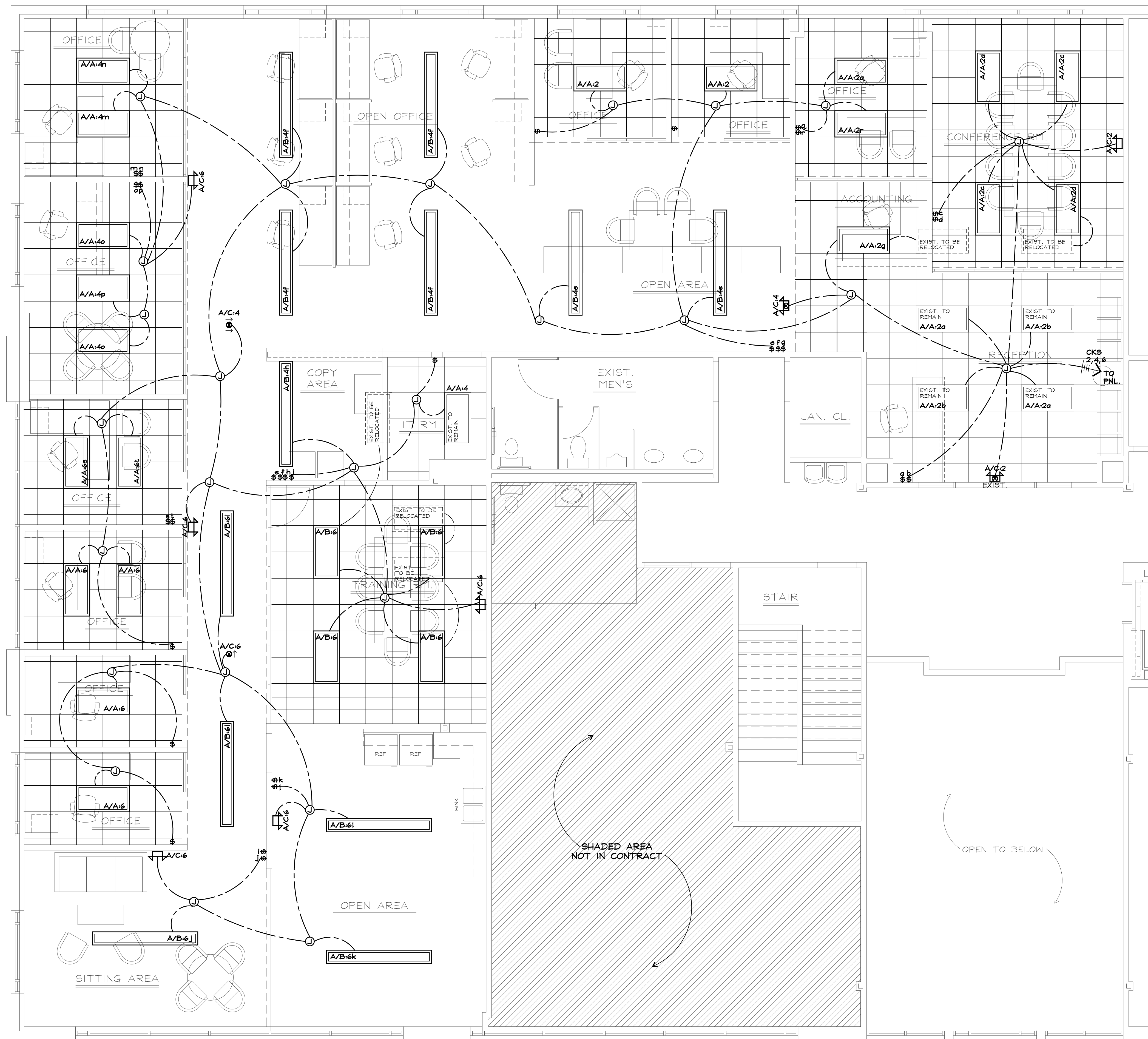
	LIGHT FIXTURE. (DENOTATION = FIXT. TYPE/ PANEL LOCATION, CIRCUIT NO., SWITCH LOCATION)		SINGLE RECEPTACLE.
	WALL MOUNTED LIGHT FIXTURE.		DUPLEX RECEPTACLE.
	TRACK LIGHTING FIXTURE		DUPLEX RECEPTACLE, WITH GROUND FAULT INTERRUPT.
	CEILING FAN FIXTURE		DUPLEX RECEPTACLE, SEPARATE CIRCUIT.
	LIGHT SWITCH.		QUAD RECEPTACLE
	TELEVISION JACK (RG6).		DATA PORT JACK (3"DP.) CONTAINS 2 NETWORK LINES (CAT. 5) & 4 PHONE LINES.
	SPRINKLER SUPPLIED BY DOMESTIC WATER SUPPLY (# EA. HWH LOCATION).		FIRE EXTINGUISHER
	FIRE STROBE		FIRE ALARM PULL STATION
	FIRE ALARM PULL STATION		SMOKE ALARM, 110 VOLT, WIRED IN SERIES TO EXIST. FIRE PANEL
	EMERGENCY LIGHT/EXIT SIGN COMBO W/ 90 MIN. BATTERY BACKUP.		EMERGENCY LIGHT/EXIT SIGN COMBO W/ 90 MIN. BATTERY BACKUP.
	EMERGENCY LIGHT W/ 90 MIN. BATTERY BACKUP.		

## ADDITIONAL NOTES:

- PROVIDE COPPER CONDUCTOR BRANCH CIRCUIT WIRING FOR 20AMP-#12AHS IN 3/4" MIN.
- FAMILIARIZE YOURSELF WITH LOCAL REQUIREMENTS IN REGARDS TO CLEARANCES, DISTANCES TO BE MAINTAINED BEFORE INSTALLING SERVICE EQUIP. & OBTAIN PRIOR APPROVAL.
- ALL CIRCUITS AND CIRCUIT MODIFICATIONS MUST BE LEGIBLY IDENTIFIED AS TO THEIR CLEAR, EVIDENT, AND SPECIFIC PURPOSE. THE IDENTIFICATION MUST INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS, AND THE IDENTIFICATION MUST BE ON A CIRCUIT DIRECTORY LOCATED ON THE FACE OR INSIDE OF THE DOOR OF THE PANELBOARD.
- E.C. SHALL VERIFY EXISTING PANEL AND CIRCUIT BREAKERS, REUSE EXIST. AS NECESSARY.

## LEGEND

	EXIST. LIGHT FIXTURE TO REMAIN
	EXIST. LIGHT FIXTURE TO BE REMOVED OR RELOCATED AS SHOWN. (VER. W/ NOTE @ LT. FIXT.)
	PROPOSED NEW LOC. OF RELOCATED LIGHT FIXTURE



# ELECTRICAL LIGHTING PLAN

SCALE :

1/4"=1'-0"

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DRAWING TITLE:  
LIGHTING PLAN,  
ELECT. SYMBOLS

**E-2**

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EXIST. PANELBOARD SCHEDULE "A"							
EXIST. 42 CIRCUIT BREAKER PANELBOARD, 200/120V, THREE PHASE, 4 WIRE, 5N SERVICE, 3 POLE 200 AMP MAIN CIR. BRKR., GRND. BAR & THE FOLLOWING LISTED BRANCH CIRCUIT BREAKERS:							
DESCRIPTION	MTG. SURFACE		CONNECTED LOAD (KW)			MTG. SURFACE	
	BREAKER	CCT	PHASE A	PHASE B	PHASE C	CCT	BREAKER
REFRIGERATOR	20A	1	1.0	0.6			2
REFRIGERATOR	20A	3			1.0	1.0	4
KITCHEN COUNTER GFI RECEPTACLES	20A	5			1.5	1.0	6
KITCHEN COUNTER GFI RECEPTACLES	20A	7	1.5				8
SITTING AREA	20A	9		1.6			10
NORTH EAST OFFICE	20A	11			1.6		12
TRAINING ROOM	20A	13	1.3				14
COPY RM. WEST WALL	20A	15		1.0			16
COPY RM. NORTH WALL	20A	17			1.0		18
IT RM.	20A	19	1.0				20
IT RM.	20A	21		1.0			22
SOUTH EAST OFFICES	20A	23			1.8		24
OPEN OFFICE CUBICLES	20A	25	0.9				26
OPEN OFFICE CUBICLES	20A	27		0.9			28
OPEN OFFICE CUBICLES	20A	29			0.7		30
RECEPTACLES SOUTH WEST OPEN OFFICE/OFFICES	20A	31	1.4				32
RECEPTACLES N. OPEN OFFICE & RECEPTION	20A	33		1.6			34
CONFERENCE RM.		35			1.4		36
SPARE		37					38
SPARE		39					40
SPARE		41					42

NOTE:  
1. ELECTRICAL CONTRACTOR TO VERIFY ALL PROPOSED EQUIPMENT LOADS SHOWN ABOVE W/OWNER & MANUF. SPECS. ALTER PANEL LAYOUT & LOADING AS NECESSARY.

APPROX. TOTAL CONNECTED LOAD:  
 'A' PHASE = 7.7 KW  
 'B' PHASE = 8.1 KW  
 'C' PHASE = 9.0 KW

LIGHT FIXTURE SCHEDULE						
MARK	DESCRIPTION/ FEATURES	LAMPS		MOUNTING	VOLTS	SPECIFIC MANUFACTURER & CATALOG #
		QTY.	TYPE	CLG./ POLE-TYPE		
A	2'x4' FLUORESCENT W/ PARABOLIC LENS	10 EXIST. 23 NEW	(2)-30W LED	DROP-IN/LAY-IN	120V	PER CONTRACTOR/ TENANT AGREEMENT
B	1'x8' FLUORESCENT W/ PARABOLIC LENS	12	(2)-30W LED	SUSPENDED (VER. HT. IN FIELD)	120V	PER CONTRACTOR/ TENANT AGREEMENT
C	EMERGENCY/EXIT W/BATTERY BACKUP	2 EXIT 2 COMBO 6 LIGHTS	EXIST./ NEW	HIGH WALL/ LOW WALL/ PENDANT	120V	SURELITE OR EQUAL

- ELECTRICAL:
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM (E.G., LIGHTING, ALARM, SIZING CIRCUITS, PANELS, ROUTING, ETC.) AS PER THE GOVERNING AUTHORITIES.
    - VERIFY WITH OWNER FOR ANY ADDITIONAL REQUIREMENTS BY TENANT.
  - WORK SHALL BE DONE ACCORDING TO THE NATIONAL ELECTRIC CODE, LOCAL ELECTRICAL CODES AND UTILITY COMPANY STANDARDS AND REQUIREMENTS. CONTRACTOR SHALL PROVIDE DRAWINGS, SPECIFICATIONS, CALCULATIONS, CUTS, ETC. AS REQUIRED BY THE GOVERNING AUTHORITIES.
    - MOUNTING HEIGHTS OF OUTLETS, FIXTURES, ETC. SHALL BE AT HANDICAP HEIGHTS. VERIFY WITH OWNER BEFORE INSTALLING SCHE.
    - MAKE FINAL POWER CONNECTIONS AND VERIFY PROPER OPERATION OF EQUIPMENT REQUIRING ELECTRICAL POWER FURNISHED AND INSTALLED BY OTHERS.
  - INCLUDE SPECIAL SYSTEMS AS SHOWN (EXTENT SHOWN ON DRAWINGS, BALANCE BY TENANT CONTRACTOR).
    - EMERGENCY LIGHTS WITH BATTERY BACKUP
    - FIRE ALARM
    - TELEPHONE (CONDUIT ADJACENT TO ELECTRIC PANEL)
  - PROVIDE GROUND CONNECTION FOR ELECTRICAL DEVICES AND EQUIPMENT, PER LOCAL CODES. CONDUIT CONNECTIONS SHALL BE DRAWN UP LIGHT AND SECURE.
  - MINIMUM WIRE SIZE TO BE #14 THIN FOR 15 AMP CIRCUITS AND #12 THIN FOR 20 AMP CIRCUITS OVER 75 FEET TO BE MINIMUM #10 TH, UNLESS OTHERWISE NOTED ON THE PLANS.
  - MINIMUM CONDUIT SIZE TO BE 1/2" EMT, MINIMUM RIGID I.M.C. CONDUIT SIZE TO BE 3/4" CONDUIT IN CONCRETE SLAB OR BELOW GRADE TO BE RIGID I.M.C. GALVANIZED CONDUIT. LIQUIDTIGHT FLEXIBLE METAL CONDUIT IS NOT PERMITTED FOR DIRECT BURIAL.
  - PROVIDE TYPEWRITTEN DIRECTORIES SEALED IN PLASTIC WITH CIRCUIT AND SUBFEEDS CORRECTLY IDENTIFIED FOR PANELS.
  - PANELS SHALL BE EQUAL TO I.T.E., WESTINGHOUSE OR SQUARE D (CIRCUIT BREAKERS).
  - SWITCHES SHALL BE SILENT ROCKER TYPE AS MANUFACTURED BY LEVITON WITH THE ASSOCIATED STYLE OUTLETS (WHITE).
  - ADDITIONAL EXIT SIGNS AND EMERGENCY LIGHTS MAY BE REQUIRED BY LOCAL GOVT. PRIOR TO FINAL INSPECTION AS DETERMINED NECESSARY.
  - ALUM. CONDUCTOR MATERIAL IS PROHIBITED.
  - PROVIDE A HARDWIRED SMOKE DETECTOR W/ IN 10' (MAX.) OF ANY/EACH CENTRAL HEATING AND AUXILIARY UNIT.
  - METER SHALL BE GROUNDING BETWEEN LUGS AND A 1/2" X 8'-0" LONG COPPER GROUND ROD W/ A GROUND CABLE, CLAMP CABLE TO ROD W/ A ACORN NUT CONNECTOR. 200a = #2-3/4", (400a = #1/0-1").
  - GROUND ROD SHALL BE DRIVEN TO 4' ABOVE FINAL GRADE IN METER BOX, OR JUST BELOW GRADE OUT OF METER BOX.
  - SERVICE CONDUIT BETWEEN WEATHER HEAD AND PANEL OR METER AND PANEL SHALL BE RIGID "1" OR HEAVY WALL EMT IS NOT ACCEPTABLE.
  - FURNISH AND INSTALL POWER PANELS IN CODE GAUGE STEEL CABINETS ARRANGED FOR SURFACE MOUNTING.
  - PANELS SHALL BE DEAD FRONT TYPE HAVING MAIN CIRCUIT BREAKERS OR MAIN LUGS ONLY AND CIRCUIT BREAKER BRANCHES OF NUMBER, TYPE AND CAPACITY SHOWN ON SINGLE-PHASE, THREE-WIRE 120/240 VOLT, 60 HERTZ ALTERNATING CURRENT DISTRIBUTION.
  - PANELS SHALL BE MADE UP OF INDIVIDUAL CIRCUIT BREAKER UNITS OF NUMBER, TYPE AND CAPACITY AS REQUIRED. TWO POLE CIRCUIT BREAKERS SHALL HAVE COMMON TRIP.
  - LIGHTING PANELS SERVED BY 120/240 VOLT FEEDERS SHALL BE TYPE NLB-3 OR NLB-4 AS REQUIRED.
  - MAINS SHALL BE SUITABLE FOR 120/240 VOLT, SINGLE PHASE, THREE-WIRE AND SHALL BE OF COPPER BUS BAR. PROVIDE NEUTRAL TERMINAL STRIP W/ TERMINALS NUMBERED CORRESPONDING TO BRANCHES ON PANELS.
  - BREAKERS FOR HVAC EQUIPMENT SHALL BE "HACR" TYPE.
    - PROVIDE BREAKER LACKS ON ALL HVAC, HVAC CONTROL.
  - MAIN SERVICE PANEL ELECTRICAL LOAD CALCULATIONS SHALL CONFORM TO NEC 220.
  - SUB PANELS ABOVE BASEMENT SHALL BE 30 CIRCUIT 100A W/ MAIN BREAKER, FED BY 3 #3-1/4".
  - MAINTAIN 30" WIDE AND 36" DEPTH FLOOR TO CEILING CLEARANCE IN FRONT OF ALL PANELS.
  - PANEL SHALL HAVE 10% SPARE AND 10% SPACE MIN., WHEN COMPLETE. DISTRIBUTION PANEL TO BE 200 AMPERE MCB W/ 20 POLE SPACES MIN. PROVIDE BREAKERS AS REQUIRED.
  - CONDUIT FITTINGS SHALL BE MANUFACTURED BY APPLETON, THOMAS & BETTS, OR EQUAL.
  - FOR CONDUITS 1-1/4" AND LARGER, INSULATING BUSHINGS SHALL BE USED.
  - SIZE OF CONDUIT SHALL COMPLY W/ CODE REQUIREMENTS FOR TYPE OF WIRE AND CABLE USED.
  - FURNISH AND INSTALL ALL RACEWAYS FOR TELEPHONE, CRT, AND BRANCH WIRING AS REQUIRED OR SHOWN ON DRAWINGS. PROVIDE LOW VOLTAGE CONDUIT WHERE CODE REQUIRED.
  - ALL CABLE AND WIRE FOR POWER AND LIGHT SHALL BE INSTALLED IN CONDUIT.
  - CABLE AND WIRE FOR FEEDERS SHALL BE THIN INSULATED, CONFORMING TO ALL THE REQUIREMENTS OF FEDERAL SPECIFICATIONS J-C 129C.
  - WIRE FOR BRANCH WIRING INSTALLED IN WIRING SPACE OF FLUORESCENT LIGHTING FIXTURES SHALL BE HEAT-RESISTANT THERMOPLASTIC 90C INSULATION, TYPE THHN.
  - ALL WIRE SHALL BE PURE COPPER OF SIZE NOTED ON DRAWINGS. COPPER SHALL HAVE "98 CONDUCTIVITY", TYPE THHN.
  - WIRE, EXCEPT AS OTHERWISE NOTED, SHALL NOT BE LESS THAN NO. 12 AWG AND WIRE OF NO. 8 AWG AND LARGER SHALL BE STRANDED.
  - STRANDED WIRE SHALL NOT BE WRAPPED AROUND BINDING POSTS BUT SHALL BE TERMINATED IN SOLDERLESS LUGS.
  - CABLE CONNECTORS SHALL BE "T & B METHOD COLOR KEYED COMPRESSION TYPE" UNITS AS MANUFACTURED BY THOMAS & BETTS COMPANY FOR NO. 8 AWG AND LARGER CONDUCTORS.
  - EACH SWITCH, LIGHT, RECEPTACLE AND OTHER MISCELLANEOUS DEVICE SHALL BE PROVIDED W/ A GALVANIZED OR PRESSED STEEL OUTLET BOX OF THE KNOCKOUT TYPE, OF NOT LESS THAN NO. 14 U.S. GAUGE STEEL. CONDUITS SHALL BE FASTENED W/ LOCKNUTS AND BUSHINGS AND ALL UNUSED KNOCKOUTS MUST BE SEALED. THERE MUST BE SUFFICIENT ROOM FOR WIRES AND BUSHINGS AND DEEP BOXES SHALL BE INSTALLED WHERE REQUIRED. BOXES SHALL BE SECURELY AND ADEQUATELY SUPPORTED.
  - WHERE OUTLETS ARE INSTALLED IN CONCRETE OR OTHER CONSTRUCTION, FINAL FINISH IS TO BE PLASTER RINGS W/ RECESSED COVERS ON ALL SUCH OUTLETS. WHERE OTHER FINISHES ARE TO BE APPLIED, INSTALL EXTENSION RINGS AS REQUIRED. OUTLET BOXES IN CONCRETE SHALL BE CONCRETE TYPE.
  - THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL SPECIAL OUTLET BOXES THAT MAY BE REQUIRED TO ENCLOSE RECEPTACLES SPECIFIED HEREINAFTER AND AS SHOWN ON PLANS.
  - CONDUITS SHALL NOT BE SUPPORTED FROM CEILING SYSTEMS OR PIPING/MECHANICAL DUCT SYSTEMS.
  - BOXES SHALL BE AS MANUFACTURED BY APPLETON, STEEL CITY, RACO, CROUSE-HINDS OR APPROVED EQUAL.
  - EC TO FOLLOW ALL ITEMS OF NEC ARTICLE 210-52.
  - ANY FLOOR RECEPTACLE SHALL BE ON A GFI BREAKER.
  - PROVIDE A GFI OUTLET IN BASEMENT, UNFINISHED AREA AND/OR AT PANEL.
  - EACH SUMP OR EJECTOR SHALL BE ON A SINGLE OUTLET DEDICATED GROUNDING CIRCUIT.
  - PROVIDE A SEPARATE RECEPTACLE AT EVERY HVAC UNIT, OR GFI ON EXTERIOR.
  - EACH RECEPTACLE BELOW GRADE IN UNFINISHED AREAS SHALL BE GFI.
  - DUPLEX RECEPTACLES FOR GENERAL PURPOSE SHALL BE SIDE WIRED GROUNDING TYPE W/ DOUBLE BINDING SCREWS, HAVING BAKELITE BODIES AND GROUNDING TERMINALS. WHITE IN COLOR LEVITON "DECORA" SMOOTH FACE.
  - PLATES FOR WALL SWITCHES AND RECEPTACLES IN PLASTERED OR FINISHED AREAS SHALL BE WHITE, UNLESS OTHERWISE SPECIFIED AS SHOWN, SINGLE OR IN GANGS OF PROPER COMBINATION AS REQUIRED.
  - WALL SWITCHES SHALL BE LOCATED AS INDICATED ON DRAWINGS, ARRANGED SINGLY OR IN GANGS, AT THE HEIGHT SPECIFIED OR INDICATED AND SHALL HAVE APPROVED PLATES AND FINISH AS SPECIFIED HEREINAFTER. LEVITON OR EQUAL.
  - ALL WALL SWITCHES SHALL HAVE CAPACITY OF 20AMP AT 120 VOLTS ALTERNATING CURRENT AND SHALL BE LEVITON OR EQUAL.
  - IN EACH ROOM ONE SWITCH MUST HAVE ROCKER ILLUMINATED WHEN LOAD IS OFF.
  - ELECTRICAL CONTRACTOR FURNISH AND INSTALL NEW LIGHTING FIXTURES.
  - PROVIDE PROPER SUPPORT FOR ALL LIGHTING FIXTURES, INCLUDED IN BID ALL MATERIALS REQUIRED.
  - FURNISH AND INSTALL ALL LAMPS AS REQUIRED.
  - ALL RECESSED LUMINAIRES SHALL BE IC-RATED AND LABELED AS HAVING AN AIR LEAKAGE RATE OR NOT MORE 2.0 CFM (0.944 L/S) WHEN TESTED IN ACCORDANCE W/ ASTM E 283 AT A 1.57 PSF (75 PA) PRESSURE DIFFERENTIAL. ALL RECESSED LUMINAIRES SHALL BE SEALED W/ A GASKET OR CAULK BETWEEN THE HOUSING AND INTERIOR WALL OR CEILING COVERING.
  - CONTRACTOR SHALL READ ALL RELEVANT DOCUMENTS, BECOME FAMILIAR W/ THE JOB, SCOPE OF WORK, TYPE OF GENERAL CONSTRUCTION AND THE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL ALSO UNDERSTAND THE PURPOSE FOR WHICH THESE DOCUMENTS HAVE BEEN PREPARED AND BECOME COGNIZANT OF ALL THE DETAILS INVOLVED. EACH CONTRACTOR SHALL COORDINATE HIS WORK W/ THAT OF OTHERS.
  - MEANS OF EGRESS ILLUMINATION REQUIRES A LEVEL OF ONE FOOT CANDLE AT THE WALKING SURFACE LEVEL.
  - WHERE ELECTRICAL PIPES PENETRATE THE WALLS TOP PLATES, FIREBLOCKING AND SEALING OF ANNULAR SPACES IS REQUIRED.
  - ALL TAP CONNECTIONS OF LUMINAIRES USING 3/8" FMC ARE LIMITED TO 6'-0" LENGTHS.

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DRAWING TITLE:  
 ELECTRICAL NOTES,  
 PANEL BOARD  
 SCHEDULE

E-3