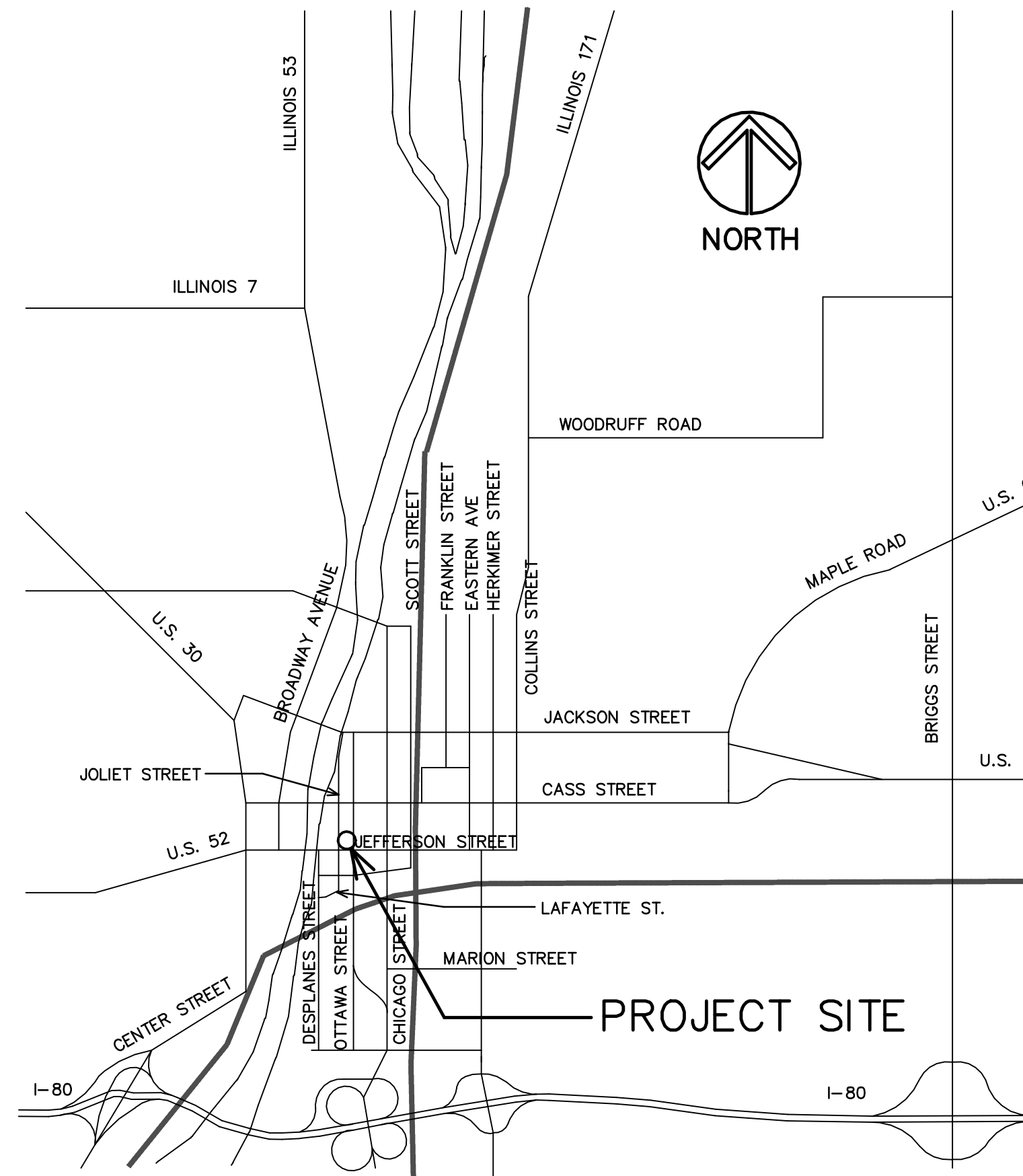


LOCATION MAP



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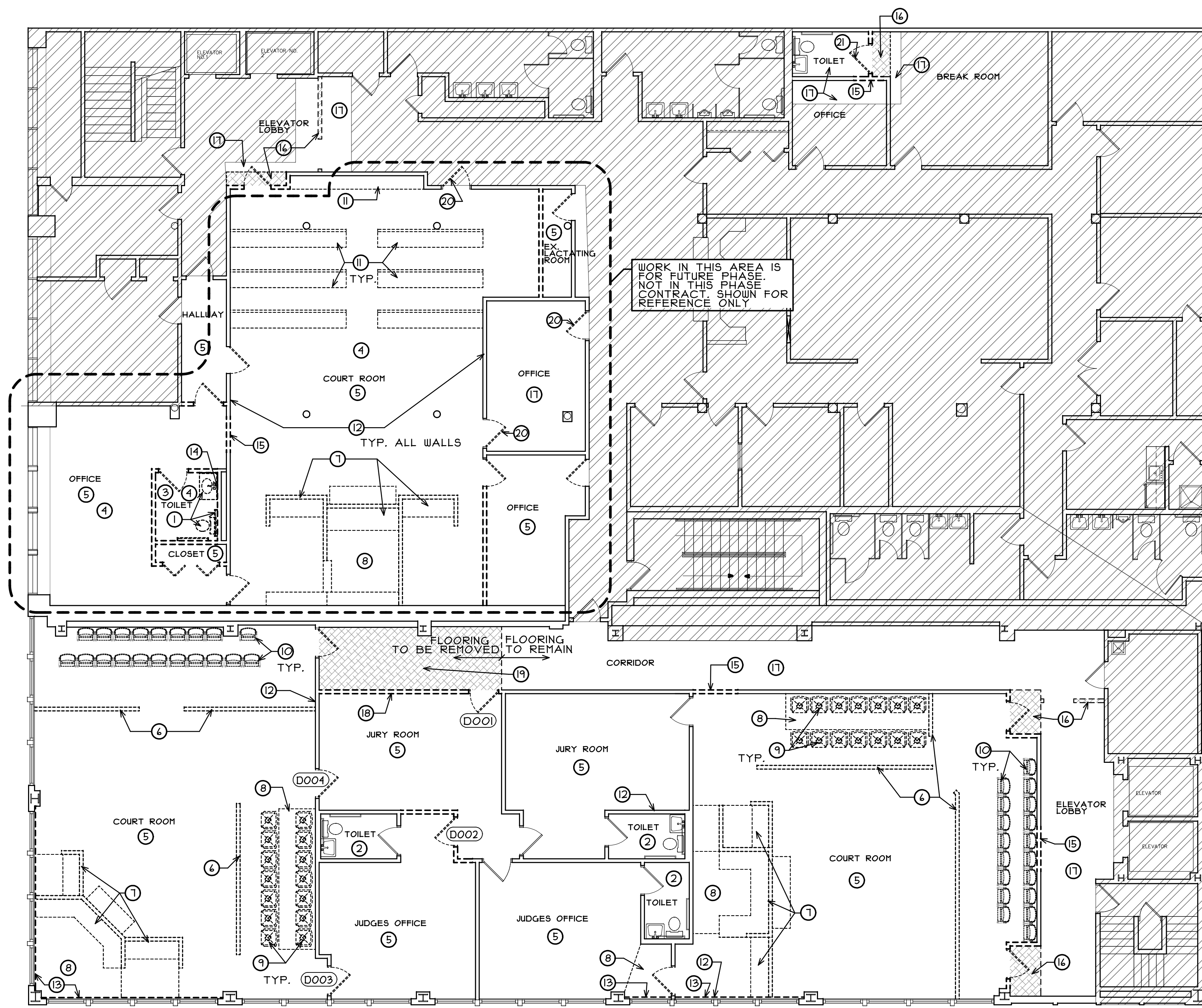
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T1

OF 1 SHEETS



SECOND FLOOR DEMO PLAN
 NORTH SCALE: 1/8" = 1'-0"

DEMOLITION PLAN LEGEND

- HATCH DENOTES AREAS NOT INCLUDED IN PROJECT SCOPE.
- EXISTING WALLS TO REMAIN (TYPICAL)
- EXISTING METAL STUD AND GYPSUM BOARD WALL TO BE REMOVED COMPLETELY (UNLESS NOTED OTHERWISE) VERIFY IN FIELD
- EXISTING DOOR & FRAME TO REMAIN (TYPICAL)
- EXISTING DOOR & FRAME TO BE REMOVED. (TYPICAL)
- EXISTING DOOR & FRAME TO BE REMOVED. SALVAGE FOR POSSIBLE REUSE. (TYPICAL)

DEMOLITION PLAN GENERAL NOTES

- A. ALL SALVAGED ITEMS NOT REUSED SHALL BE PLACED IN STORAGE, ON SITE, AT A LOCATION DESIGNATED BY THE OWNER.
- B. ALL ITEMS REMOVED AND NOT SALVAGED SHALL BE PROPERLY DISPOSED OF OFF SITE BY THE CONTRACTOR.
- C. PATCH & REPAIR HOLES AND/OR DAMAGED SURFACES CAUSED TO ADJACENT CONSTRUCTION DURING DEMOLITION.
- D. VERIFY ANY ADDITIONAL DEMOLITION WORK REQUIRED FOR INSTALLATION OF DEVICES/EQUIPMENT
- E. EXISTING FURNITURE AND MOVABLE EQUIPMENT TO BE REMOVED BY OWNERS STAFF. ANYTHING THAT REMAINS CONTRACTOR TO COORDINATE WITH OWNER FOR STORAGE LOCATION. (V.I.F.)
- F. DEVICES INDICATED WITH AN "EX" ARE TO BE EXISTING TO REMAIN. (V.I.F.)
- G. SAWCUT AND REMOVE PORTION OF EXISTING CONCRETE FLOOR SLAB AS REQUIRED FOR REMOVAL AND INSTALL OF NEW/DEMO PLUMBING AND ELECTRICAL WORK. SEE PLUMBING AND ELECTRICAL DRAWINGS FOR SCOPE OF WORK.
- H. EXISTING DOOR AND FRAME AND DOOR HARDWARE THAT IS REMOVED SHOULD BE SALVAGED TO OWNER FOR POSSIBLE REUSE OR OWNER ATTIC STOCK. (COORDINATE WITH OWNER FOR LOCATION OF STORAGE)

DEMOLITION PLAN KEY NOTES

- 1 EXISTING PLUMBING FIXTURES, GRAB BARS AND ALL TOILET ROOM WALL MOUNTED ACCESSORIES TO BE REMOVED. SEE PLUMBING DRAWINGS.
- 2 NO WORK IN THIS ROOM PROVIDE PROTECTION DURING CONSTRUCTION (V.I.F.)
- 3 EXISTING FLOOR TILE AND TILE BASE TO BE REMOVED. (V.I.F.) PREP FLOOR FOR NEW FLOOR FINISH.
- 4 EXISTING WALL COVERING AND ADHESIVE TO BE REMOVED. (V.I.F.)
- 5 EXISTING CARPET AND VINYL WALL BASE TO BE REMOVED. PREP FLOOR FOR NEW FLOOR FINISH. (V.I.F.)
- 6 EXISTING HALF WALL TO BE COMPLETELY REMOVED. (V.I.F.)
- 7 EXISTING JUDGES BENCH TO BE REMOVED COMPLETELY. (THIS INCLUDES COUNTERTOP, HALF WALL AND RAISED PLATFORM) (V.I.F.) BULLET PROOF PANELS IN WALL TO BE SALVAGED TO OWNER.
- 8 EXISTING RAISED PLATFORM TO BE REMOVED. (V.I.F.)
- 9 EXISTING FLOOR MOUNTED JURY CHAIRS TO BE REMOVED. (COORDINATE WITH OWNER IF ANY ARE TO BE SALVAGED) (V.I.F.)
- 10 EXISTING FLOOR MOUNTED CHAIRS TO BE REMOVED. (V.I.F.)
- 11 EXISTING WOOD BENCHES TO BE REMOVED AND SALVAGED TO OWNER. (V.I.F.)
- 12 EXISTING CHAIR RAIL TO BE REMOVED. (V.I.F.)
- 13 EXISTING GYPSUM BOARD, BULLET PROOF PANELS AND FRAMING TO BE REMOVED BACK TO EXISTING WINDOWS TO REMAIN. (V.I.F.) BULLET PROOF PANELS TO BE SALVAGED TO OWNER.
- 14 REMOVE LAYER OF GYPSUM BOARD BACK TO METAL STUDS TO REMAIN FOR PLUMBING DEMO WORK.
- 15 REMOVE PORTION OF EXISTING GYPSUM BOARD AND METAL STUDS FOR NEW DOOR AND FRAME OPENING. SEE FLOOR PLAN.
- 16 REMOVE PORTION OF EXISTING CARPET AT AREA OF NEW WALL. (V.I.F.)
- 17 EXISTING FLOORING TO REMAIN AND PROVIDE PROTECTION DURING CONSTRUCTION. (V.I.F.)
- 18 PORTION OF EXISTING GYPSUM BOARD AND METAL STUD WALL TO BE REMOVED FROM FLOOR UP TO 1" BELOW LOWER CEILING. SEE REFLECTED CEILING PLAN FOR NEW HEADER.
- 19 REMOVE PORTION OF EXISTING CARPET AT THIS AREA SALVAGE FOR REUSE. (V.I.F.)
- 20 REMOVE EXISTING DOOR AND HARDWARE. EXISTING DOOR FRAME TO REMAIN FOR REUSE. (V.I.F.)
- 21 DOOR HARDWARE TO BE SALVAGED FOR REUSE ON NEW DOOR AND FRAME IN THIS ROOM. (V.I.F.)

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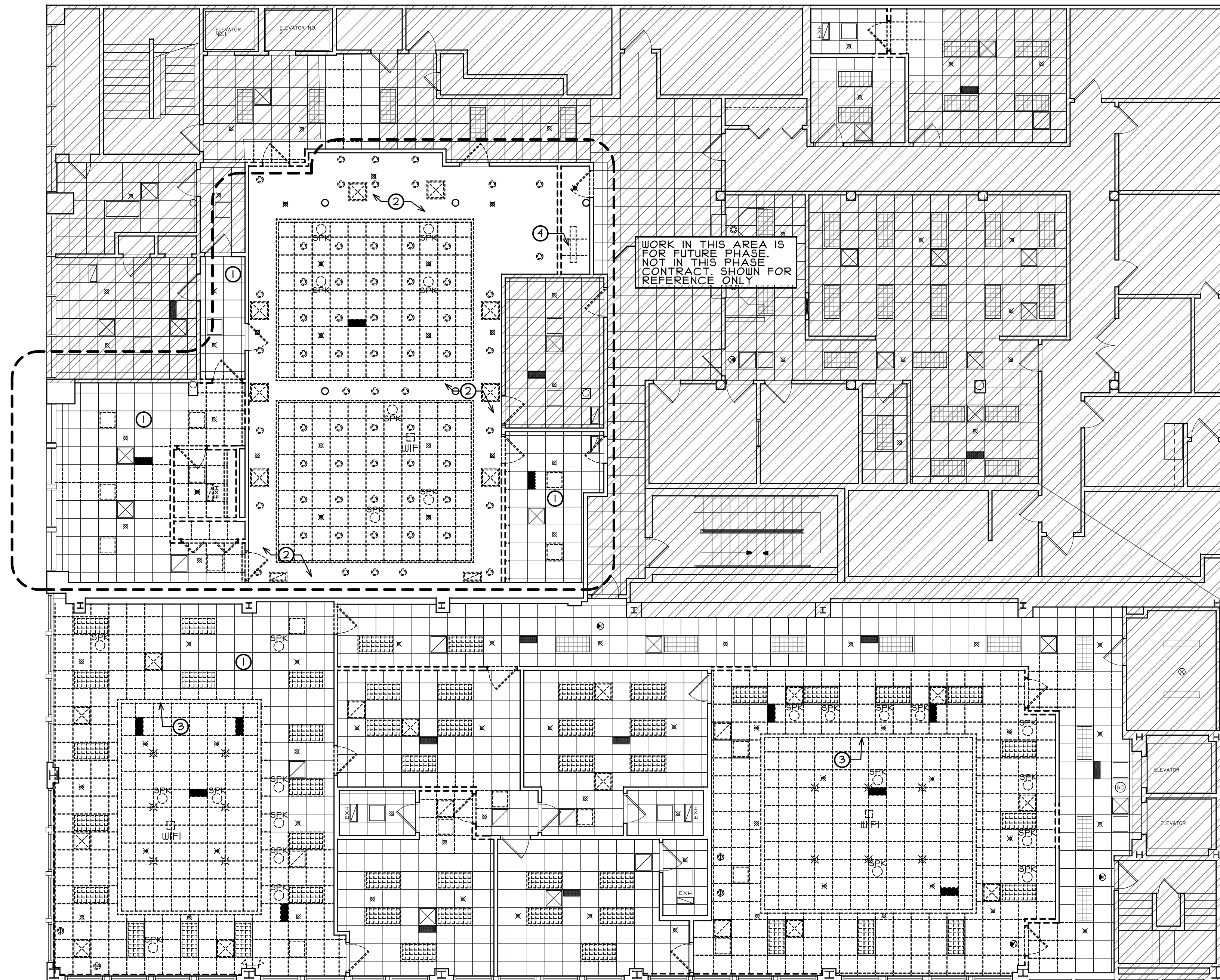
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SECOND FLOOR DEMO CEILING PLAN
NORTH SCALE: 1/8" = 1'-0"

DEMO CEILING PLAN LEGEND

ITEMS SHOWN ON CEILING PLAN BUT NOT NOTED IN CEILING LEGEND BELOW ARE EXISTING TO REMAIN. (V.I.F.)

- DENOTES EXISTING SUSPENDED CEILING GRID SYSTEM AND ACOUSTICAL PANELS TO REMAIN (U.N.O.)
- DENOTES EXISTING ACOUSTICAL CEILING PANEL AND GRID SYSTEM TO BE REMOVED. SALVAGE FULL UNDAMAGED AND CLEAN CEILING PANELS AND GRID PIECES FOR POSSIBLE REUSE. (V.I.F.)
- DENOTES EXISTING LAY-IN LIGHTING FIXTURE TO BE REMOVED AND SALVAGED MIN. OF TWO WORKING FIXTURE FOR REUSE. SEE ELECTRICAL DRAWINGS. (V.I.F.)
- DENOTES EXISTING RECESSED LIGHT FIXTURE TO BE REMOVED. SEE ELECTRICAL DRAWINGS
- DENOTES EXISTING CEILING HUNG LIGHT FIXTURE TO BE REMOVED. SEE ELECTRICAL DRAWINGS
- DENOTES EXISTING LAY-IN SUPPLY DIFFUSER IN ACOUSTIC CEILING TO BE REMOVED. SEE MECHANICAL DRAWINGS
- DENOTES EXISTING LAY-IN RETURN GRILL IN ACOUSTIC CEILING TO BE REMOVED. SEE MECHANICAL DRAWINGS
- DENOTES EXISTING EXHAUST FAN TO BE REMOVED. SEE MECHANICAL DRAWINGS
- DENOTES EXISTING CEILING SPEAKER LOCATION DEVICE HAS PREVIOUSLY BEEN REMOVED. EXISTING WIRING TO BE REMOVED. SEE ELECTRICAL DRAWINGS
- DENOTES EXISTING P.A. SPEAKER TO BE REMOVED AND SALVAGED TO OWNER.
- DENOTES EXISTING SPRINKLER LOCATION TO BE REMOVED. SEE FIRE PROTECTION DRAWINGS
- DENOTES EXISTING EXIT SIGN FIXTURE TO BE REMOVED. SEE ELECTRICAL DRAWINGS
- DENOTES EXISTING WIRELESS ACCESS DEVICE TO BE REMOVED AND SALVAGED TO OWNER. SEE ELECTRICAL DRAWINGS.
- DENOTES EXISTING CEILING MOUNTED EMERGENCY LIGHT FIXTURE TO BE REMOVED. SEE ELECTRICAL DRAWINGS.

DEMO CEILING PLAN GENERAL NOTES

- A. ALL SALVAGED ITEMS NOT REUSED SHALL BE PLACED IN STORAGE ON SITE, AT A LOCATION DESIGNATED BY THE OWNER.
- B. ALL ITEMS REMOVED AND NOT SALVAGED SHALL BE PROPERLY DISPOSED OF OFF SITE BY THE CONTRACTOR.
- C. PATCH & REPAIR ALL EXISTING GYPSUM BOARD SURFACES TO 'LIKE NEW' CONDITION PRIOR TO INSTALLING NEW FINISHES.
- D. COORDINATE WITH AND ALLOW OWNER'S SEPARATE VENDORS ACCESS TO CEILING INTERSTITIAL SPACES FOR INSTALLATION OF WIRING AND EQUIPMENT PRIOR TO INSTALLING LAY IN CEILING PANELS.

DEMO CEILING PLAN KEY NOTES

- ① EXISTING CEILING PANELS TO BE REMOVED AND EXISTING SUSPENSION GRID TO REMAIN (U.N.O.) FULL CLEAN AND UNDAMAGED CEILING PANELS TO BE SALVAGED FOR POSSIBLE REUSE.
- ② EXISTING GYPSUM BOARD SOFFIT AND FRAMING TO BE COMPLETELY REMOVED. (V.I.F.)
- ③ EXISTING GYPSUM BOARD AND METAL STUD HEADER TO BE COMPLETELY REMOVED. (V.I.F.)
- ④ REMOVED EXISTING SUPPORT FOR LIGHT FIXTURE TO BE REMOVED.

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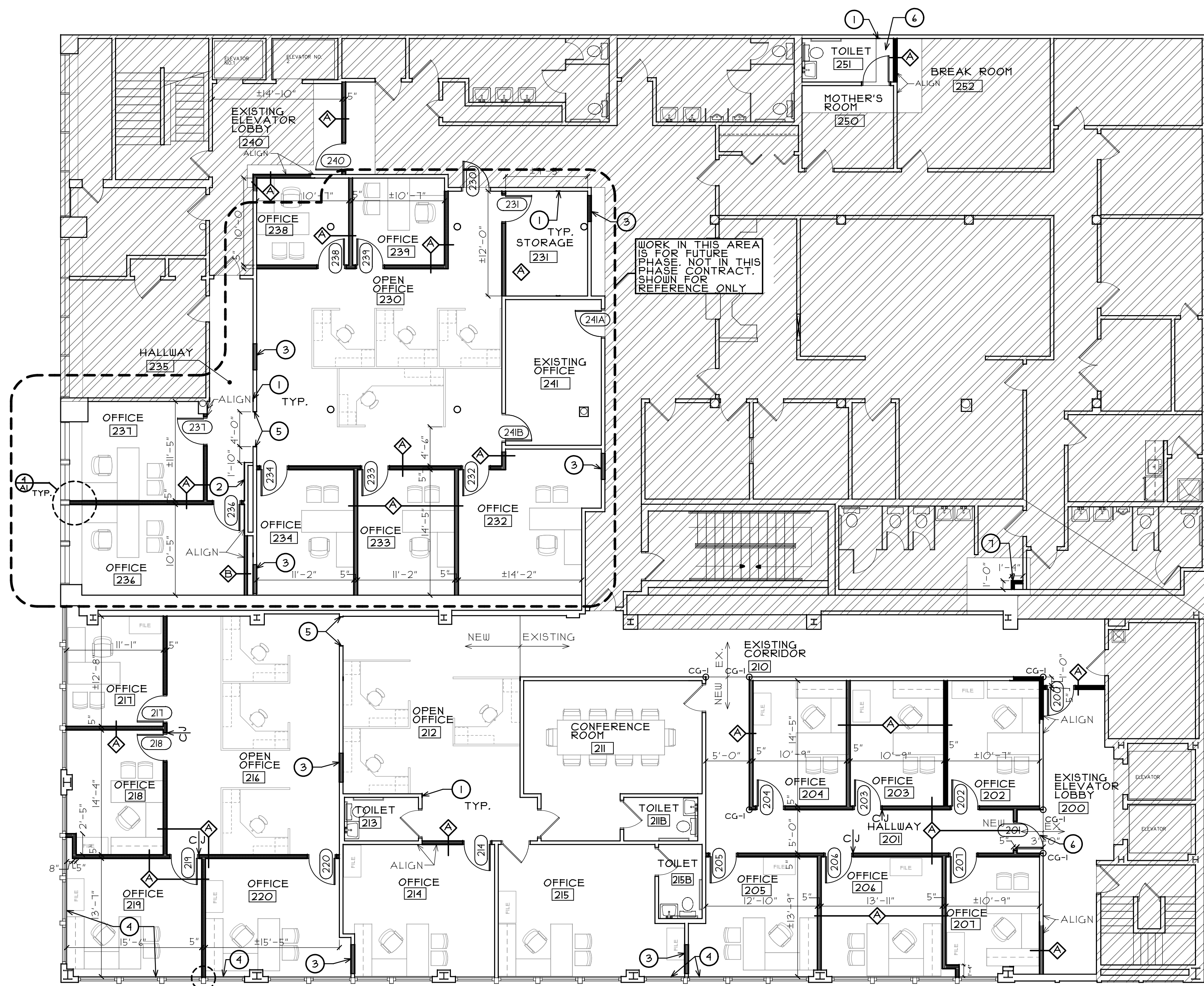
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SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"
NORTH

FLOOR PLAN LEGEND

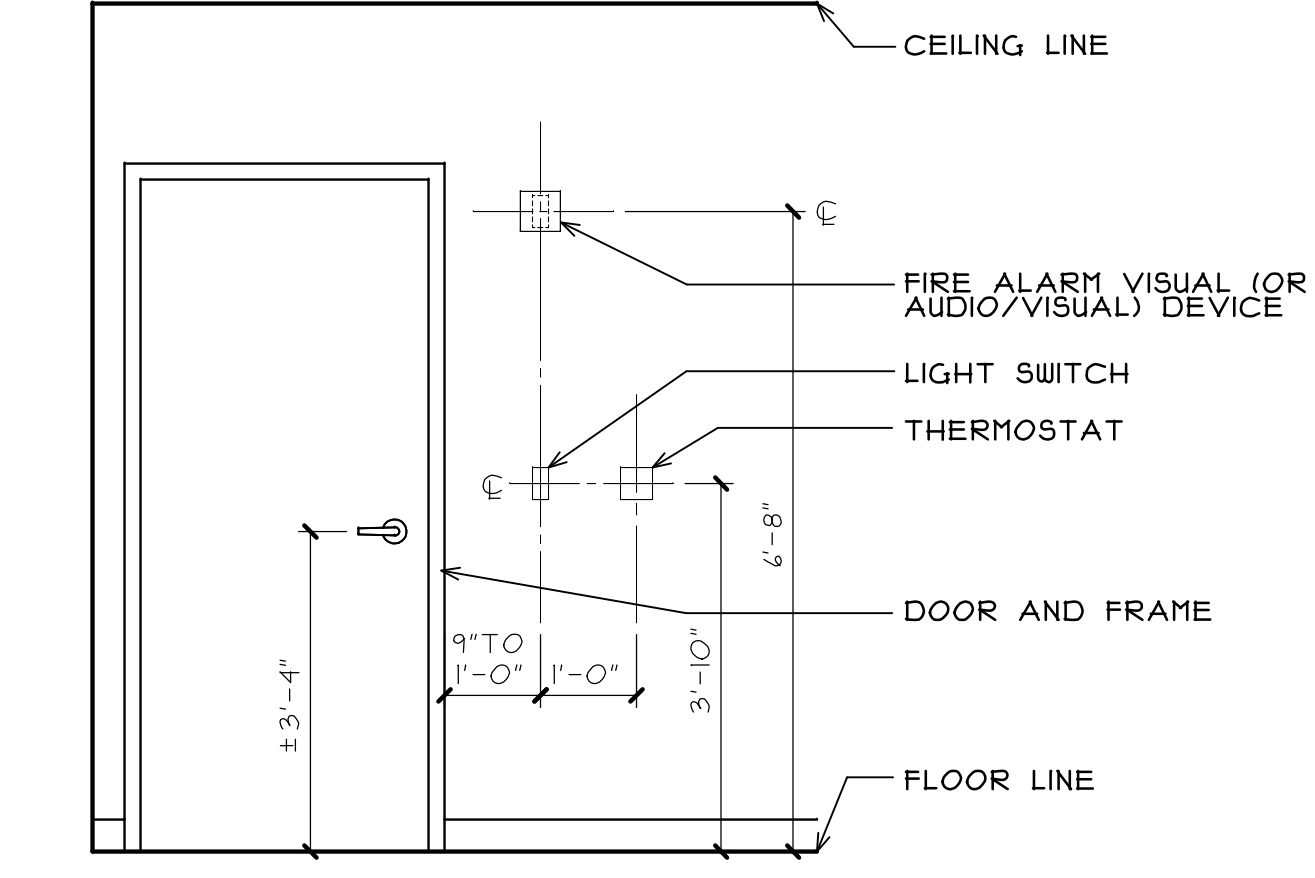
- HATCH DENOTES AREAS NOT INCLUDED IN PROJECT SCOPE
- DENOTES EXISTING PARTITIONS TO REMAIN (V.I.F.)
- DENOTES NEW PARTITIONS, TYPE AS FOLLOWS:
- DENOTES 3 5/8" METAL STUDS AT 16" O.C. WITH 3 1/2" SOUND BLANKET INSULATION IN ALL CAVITIES, AND ONE LAYER OF 5/8" GYPSUM BOARD EACH SIDE, RUN STUDS, INSULATION AND BOTH LAYERS OF GYPSUM BOARD FULL HEIGHT TO DECK ABOVE.
- DENOTES 3 5/8" METAL STUDS AT 16" O.C. AND ONE LAYER OF 5/8" GYPSUM BOARD ROOM SIDE HEIGHT TO DECK ABOVE.
- DENOTES EXISTING DOOR AND FRAME TO REMAIN (V.I.F.)
- DENOTES NEW / RELOCATED / EXISTING DOOR AND/OR FRAME. SEE DOOR MARK IN DOOR AND FRAME SCHEDULE.
- ALL CHANGES IN FLOOR FINISH MATERIAL OR COLOR ARE TO OCCUR UNDER CENTER OF DOOR / OPENING OR AT LOCATIONS INDICATED. SEE ROOM FINISH SCHEDULE FOR FLOORING TYPE IN EACH ROOM.
- NEW PLASTIC SURFACE MOUNTED CORNER GUARD CORNER GUARD TO START AT TOP OF WALL BASE AND UP TO 4'-0" AFF. (SSM SERIES BY CONSTRUCTION SPECIALTIES OR APPROVED EQUAL) SEE DETAIL 2 ON SHEET A1.
- PROVIDE CONTROL JOINT IN GYPSUM BOARD PARTITION AT LOCATIONS INDICATED, AND AT LOCATIONS RECOMMENDED BY THE MANUFACTURER AND INSTALLER. JOINTS TO BE FULL HEIGHT. SEE SPECIFICATIONS AND DETAIL 1 ON SHEET A1.

GENERAL NOTES

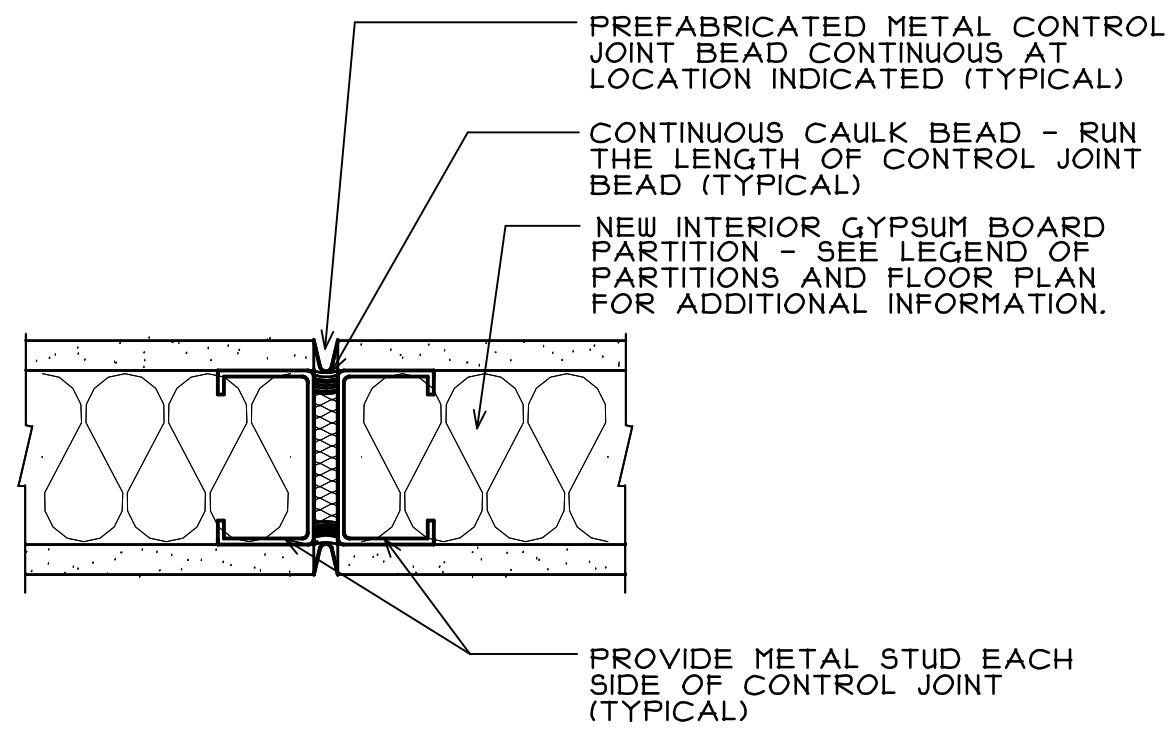
- A. PATCH & REPAIR ALL EXISTING GYPSUM BOARD SURFACES TO "LIKE NEW" CONDITION PRIOR TO INSTALLING NEW FINISHES.
- B. NEW M-E-P SERVICES IN EXISTING METAL AND GYPSUM BOARD WALLS MAY BE "FISHED DOWN" IF POSSIBLE, OR THE WALL IS TO BE CHANNEL CUT AND PATCHED WITH "LIKE" MATERIALS. COORDINATE WITH M-E-P TRADES.
- C. PROVIDE ALL REQUIRED IN WALL BLOCKING FOR NEW/SALVAGED WALL HUNG EQUIPMENT. COORDINATE WITH OWNER FOR OWNER PROVIDED EQUIPMENT.
- D. VERIFY ALL EXISTING DIMENSIONS IN FIELD AND REPORT ALL DISCREPANCIES PRIOR TO NEW CONSTRUCTION.
- E. FURNITURE AND WORKSTATION CUBICLES IS SHOWN FOR REFERENCE ONLY (F.B.O.)
- F. ALL PENETRATIONS (NEW AND EXISTING) OF SUSPENDED FLOOR SLABS SHALL BE SEALED WITH NONCOMBUSTIBLE MATERIAL TO PREVENT THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION.
- G. PENETRATIONS (NEW AND EXISTING) OF FIRE RATED SUSPENDED FLOOR SLABS (VERIFY LOCATIONS) SHALL BE SEALED WITH AN APPROPRIATE UL LISTED THROUGH-WALL PENETRATION FIRE STOPPING SYSTEM RATED FOR 1-HOURS.
- H. HOLES AT REMOVAL OR INSTALLATION OF EXISTING / NEW PLUMBING AND ELECTRICAL THROUGH EXISTING CONCRETE SLAB TO BE PROPERLY PATCHED FLUSH AND LEVEL WITH ADJACENT AREA. SEE DETAIL 3 ON SHEET A1 (V.I.F.)

FLOOR PLAN KEY NOTES

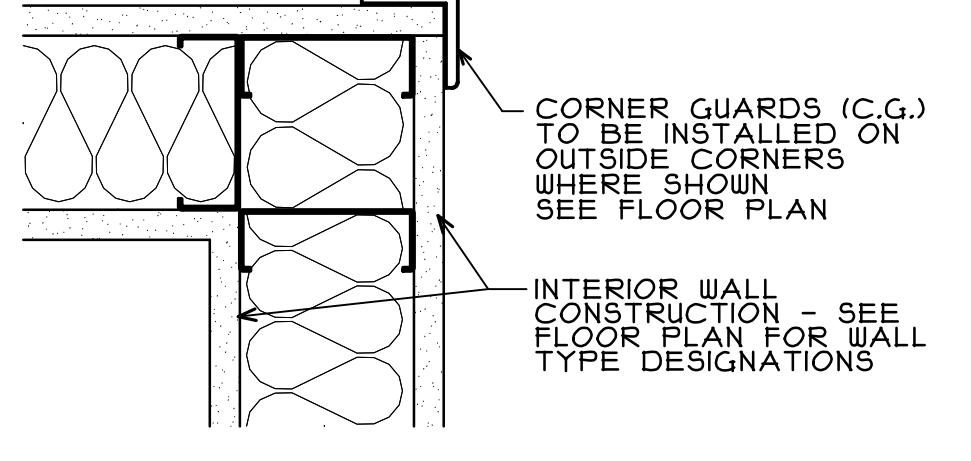
- 1 AT LOCATIONS OF REMOVED WALLS (SEE DEMOLITION PLANS). EXISTING WALLS TO REMAIN ARE TO BE PATCHED WITH "LIKE" MATERIALS MATCHING ADJOINING (SIZE, THICKNESS, ETC.) V.I.F. (PATCH IN WALL BASE WITH NEW MATCHING MATERIAL)
- 2 PROVIDE NEW LAYER OF GYPSUM BOARD ON EXISTING METAL STUDS.
- 3 INFILL EXISTING WALL OPENING AT REMOVED DOOR AND FRAME. MATCH EXISTING STUD SIZE AND GYPSUM BOARD THICKNESS (V.I.F.) FILL ALL STUD CAVITIES WITH SOUND BLANKET INSULATION. (V.I.F.)
- 4 PROVIDE NEW MATCHING PLASTIC LAMINATE WINDOW SILL. (V.I.F.)
- 5 AT LOCATION OF REMOVED DOOR AND FRAME PROVIDE NEW 1/2" GYPSUM BOARD CASED OPENING SURROUND.
- 6 PATCH IN NEW MATCHING VCT FLOORING AT THIS LOCATION. (EXCELON IMPERIAL TEXTURE VCT BY ARMSTRONG FLOORING-COLOR TO MATCH EXISTING)
- 7 PROVIDE NEW GYPSUM BOARD AND METAL STUD CHASE 5/8" GYPSUM BOARD (ROOM SIDE ONLY) ON 3 5/8" METAL STUDS. RUN GYPSUM BOARD AND METAL STUD UP 4" ABOVE FINISHED CEILING. (V.I.F.) PATCH IN EXISTING FINISHES ON CHASE BUILD OUT



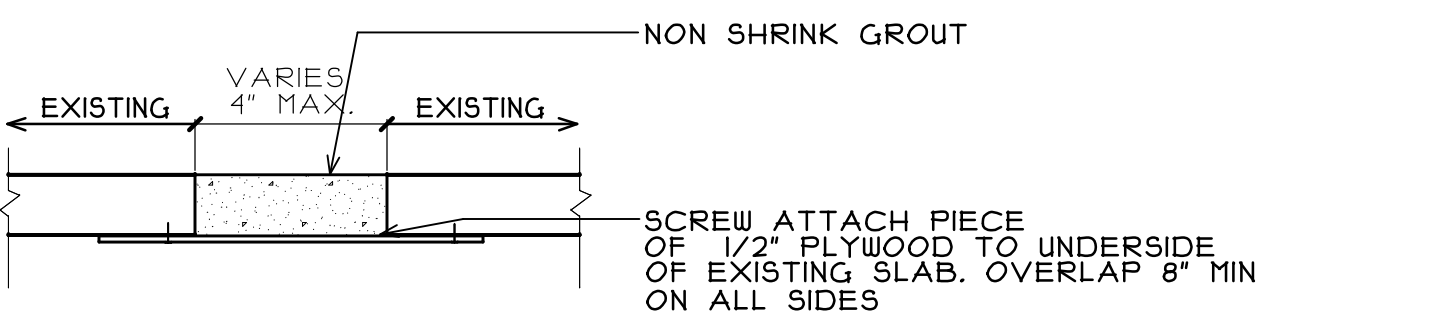
TYPICAL DEVICE LOCATIONS
SCALE: 1/2" = 1'-0"



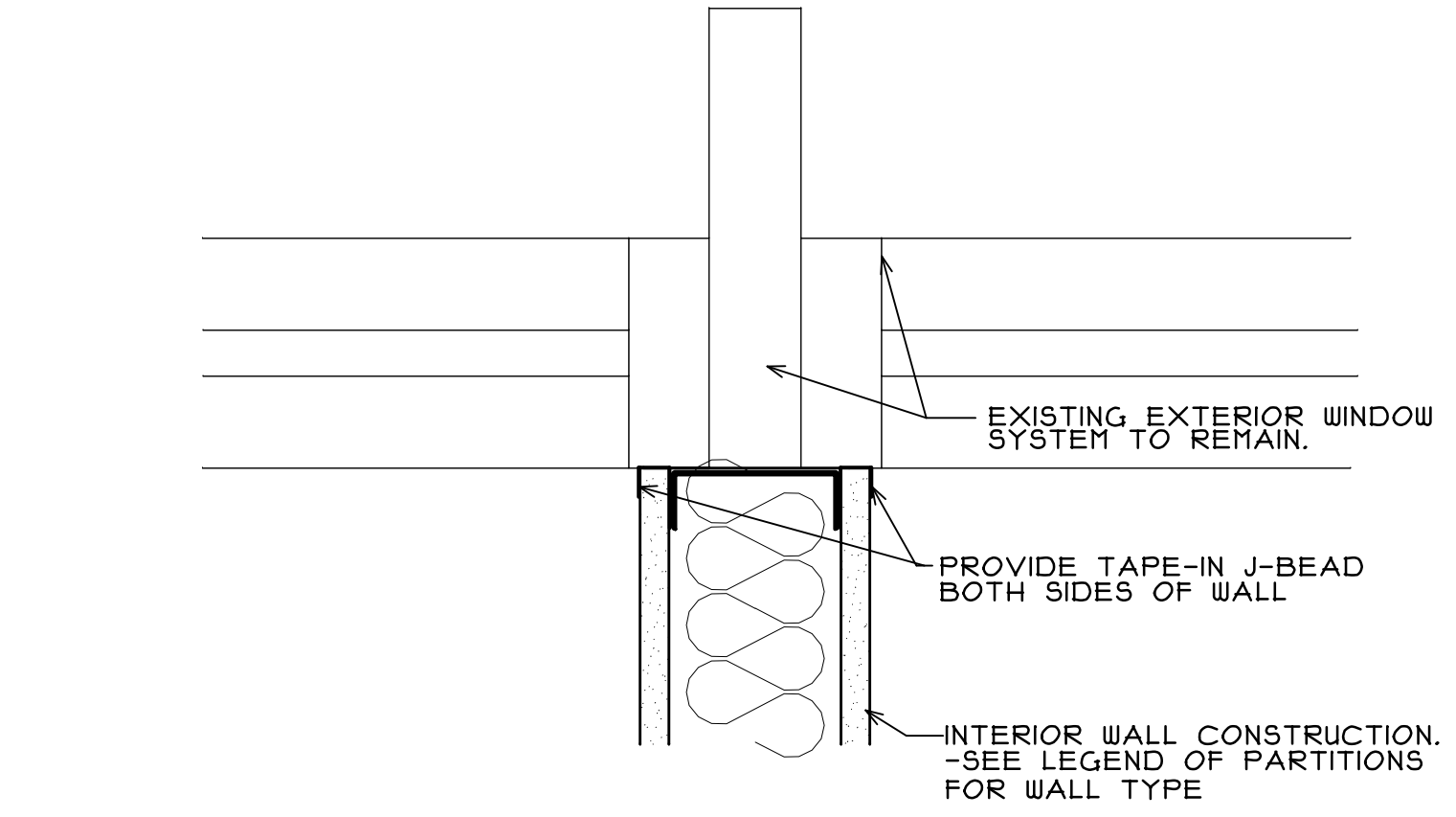
DETAIL AT GYPSUM BOARD WALL CONTROL JOINT
SCALE: 3" = 1'-0"



DETAIL AT OUTSIDE CORNER GUARD
SCALE: 3" = 1'-0"



SECTION AT EXISTING CONCRETE FLOOR PATCH
SCALE: N.T.S.



DETAIL AT INTERIOR WALL PARTITION AND EXTERIOR WINDOW MULLION
SCALE: 3" = 1'-0"

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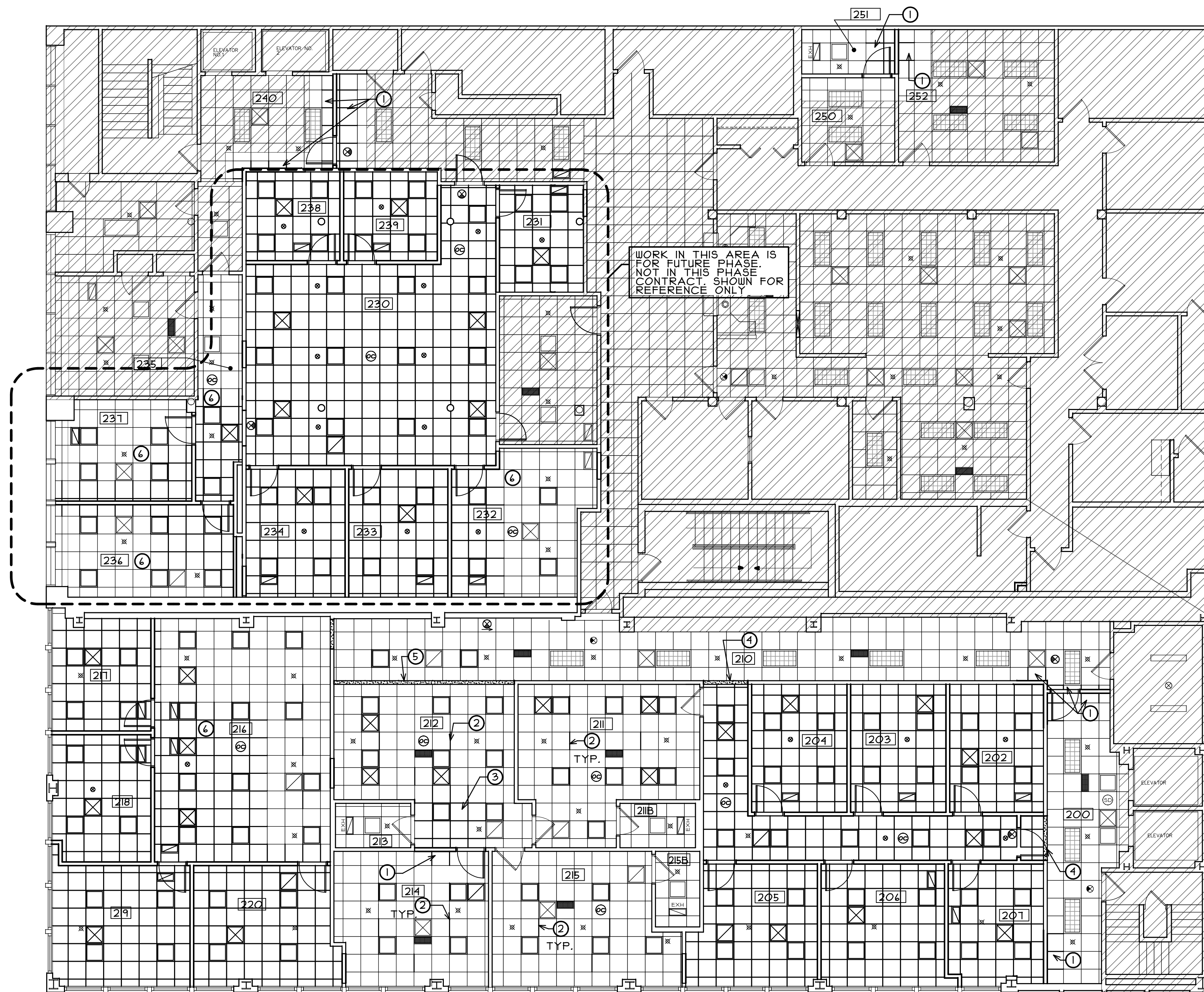
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OF 3 SHEETS



SECOND FLOOR REFLECTED CEILING PLAN
 NORTH SCALE: 1/8" = 1'-0"

CEILING PLAN LEGEND

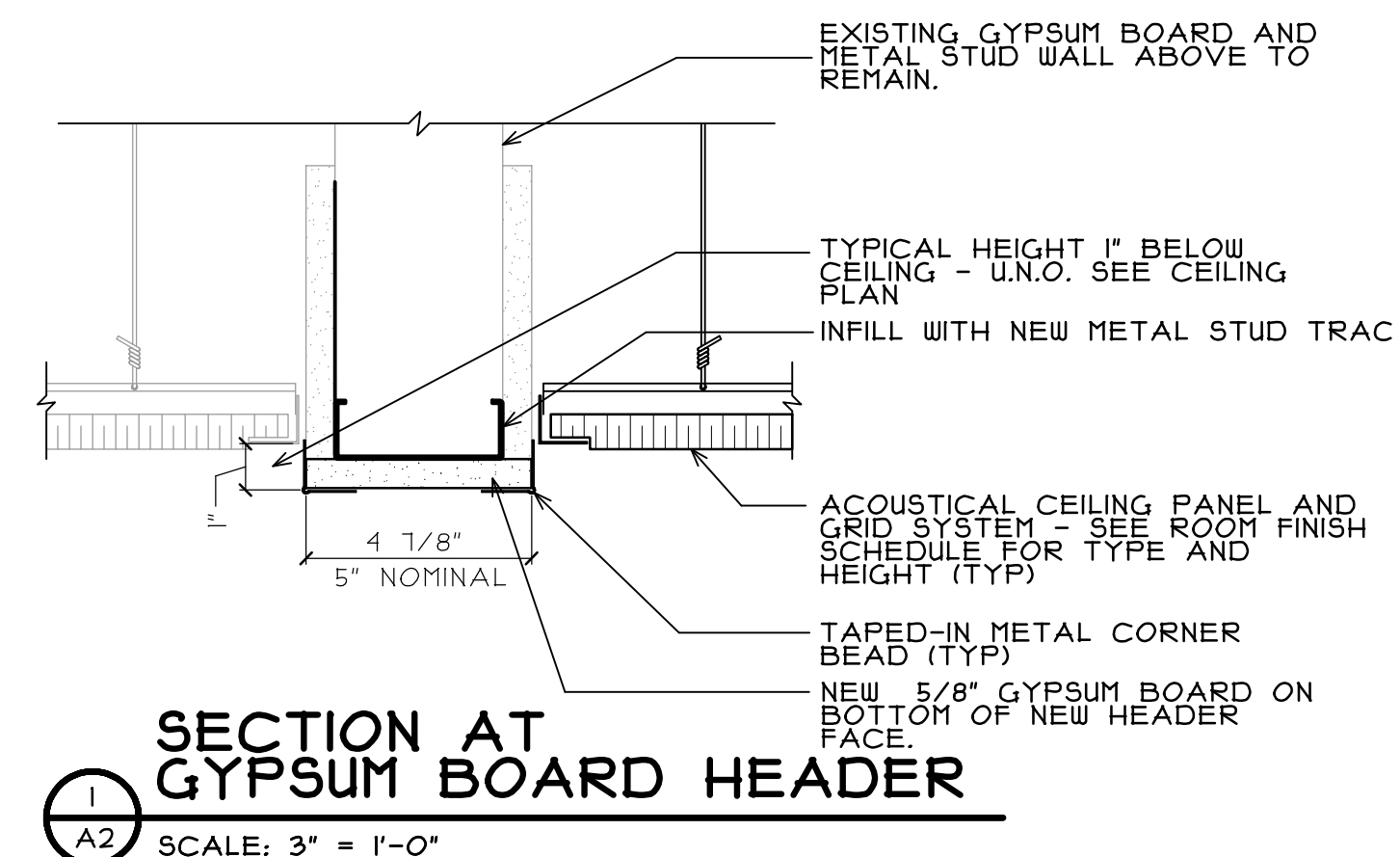
- HATCH DENOTES AREAS NOT INCLUDED IN PROJECT SCOPE
- DENOTES EXISTING SUSPENDED CEILING GRID SYSTEM (GRID AND PANELS) UNLESS NOTED OTHERWISE
- DENOTES NEW 2' X 2' SUSPENDED CEILING GRID SYSTEM, MATCH EXISTING GRID AND PANELS. COORDINATE WITH OWNER FOR BRAND AND TYPE.
- DENOTES EXISTING LAY-IN LIGHTING FIXTURE IN ACOUSTIC CEILING
- DENOTES NEW 2X2 LED LAY-IN LIGHTING FIXTURE IN ACOUSTIC CEILING. SEE ELECTRICAL DRAWINGS
- DENOTES NEW LAY-IN SUPPLY DIFFUSER IN ACOUSTICAL CEILING - SEE MECHANICAL DRAWINGS.
- DENOTES NEW RETURN/EXHAUST REGISTER IN ACOUSTICAL/GYPSUM CEILING - SEE MECHANICAL DRAWINGS.
- DENOTES EXISTING EXIT SIGN TO REMAIN
- DENOTES SALVAGE/NEW CEILING MOUNTED EXIT SIGNAGE FIXTURE - MATCH EXISTING BUILDING STANDARD
- DENOTES EXISTING SPRINKLER HEAD TO REMAIN
- DENOTES NEW SPRINKLER HEAD LOCATION, HEAD TO BE CENTERED IN CEILING PANELS IN BOTH DIRECTIONS - SEE FIRE PROTECTION DRAWINGS.
- DENOTES NEW CEILING MOUNTED OCCUPANCY SENSOR - SEE ELECTRICAL DRAWINGS.

CEILING PLAN GENERAL NOTES

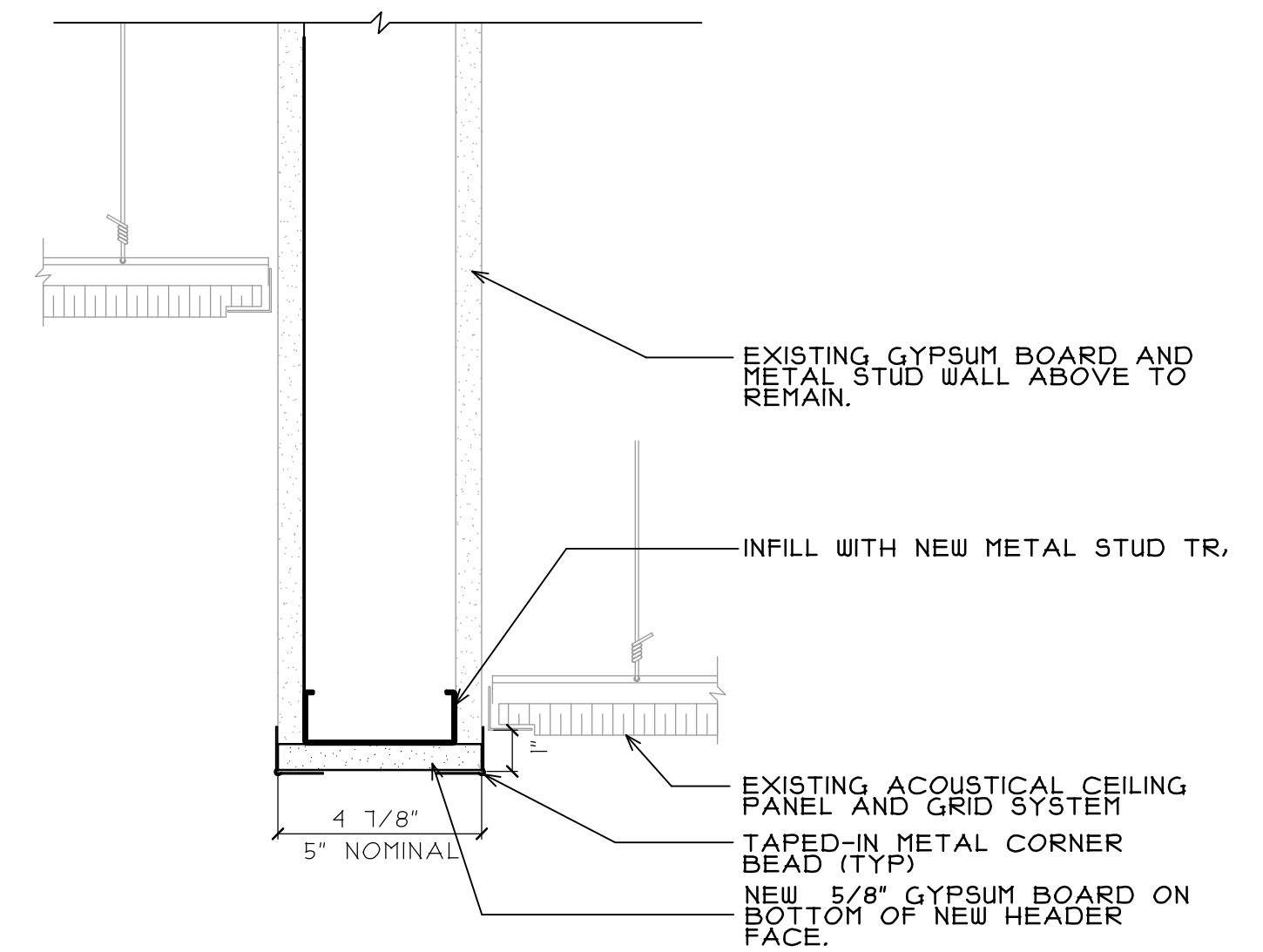
- A. PATCH & REPAIR ALL EXISTING GYPSUM BOARD SURFACES TO "LIKE NEW" CONDITION PRIOR TO INSTALLING NEW FINISHES.
- B. CEILING GRID AND LAY-IN PANEL TYPES ARE INDICATED IN THE ROOM FINISH SCHEDULE FOR EACH ROOM.
- C. COORDINATE WITH AND ALLOW OWNER'S SEPARATE VENDORS ACCESS TO CEILING INTERSTITIAL SPACES FOR INSTALLATION OF WIRING AND EQUIPMENT PRIOR TO INSTALLING LAY IN CEILING PANELS.
- D. ALL GYPSUM BOARD SOFFITS, HEADERS, ETC. WITHIN THE WORK AREA ARE TO RECEIVE A NEW PAINT FINISH.

CEILING PLAN KEY NOTES

- ① INFILL EXISTING CEILING BACK TO NEW WALLS WITH SALVAGED GRID PIECES AND PANELS IF POSSIBLE(HEIGHT TO MATCH EXISTING CEILING)
- ② PATCH IN CEILING GRID WITH SALVAGE/NEW GRID PIECES AND CEILING PANELS AT LOCATION OF REMOVED LIGHT FIXTURES. (V.I.F.)
- ③ PATCH IN CEILING WITH SALVAGED GRID AND CEILING PANELS BACK TO NEW WALLS. (V.I.F.)
- ④ PROVIDE NEW GYPSUM BOARD HEADER. SEE DETAIL 1 ON SHEET A2.
- ⑤ PROVIDE NEW GYPSUM BOARD HEADER. SEE DETAIL 2 ON SHEET A2.
- ⑥ PROVIDE NEW CEILING PANELS IN EXISTING / SALVAGED CEILING GRID IN THIS ROOM



SECTION 1 AT GYPSUM BOARD HEADER
 SCALE: 3" = 1'-0"



SECTION 2 AT GYPSUM BOARD HEADER
 SCALE: 3" = 1'-0"

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ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING	CEILING HT.	REMARKS	ROOM NO.
EAST SIDE								
200	EXISTING ELEVATOR LOBBY	EX	EX	EX	EX	EX	1,2	200
201	HALLWAY	CPT	4" VINYL - STRAIGHT	PNT-EGG	APC-1	8'-0"		201
202	OFFICE	CPT	4" VINYL - STRAIGHT	PNT-EGG	APC-1	8'-0"		202
203	OFFICE	CPT	4" VINYL - STRAIGHT	PNT-EGG	APC-1	8'-0"		203
204	OFFICE	CPT	4" VINYL - STRAIGHT	PNT-EGG	APC-1	8'-0"		204
205	OFFICE	CPT	4" VINYL - STRAIGHT	PNT-EGG	APC-1	8'-10"		205
206	OFFICE	CPT	4" VINYL - STRAIGHT	PNT-EGG	APC-1	8'-10"		206
207	OFFICE	CPT	4" VINYL - STRAIGHT	PNT-EGG	APC-1	8'-10"		207
210	EXISTING CORRIDOR	EX	EX	EX	EX	EX	1,2	210
211	CONFERENCE ROOM	CPT	4" VINYL - STRAIGHT	PNT-EGG	EX	EX	1	211
211B	TOILET	EX	EX	PNT-EGG	EX	EX		211B
212	OPEN OFFICE	CPT	4" VINYL - STRAIGHT	PNT-EGG	EX	EX	1	212
213	TOILET	EX	EX	PNT-EGG	EX	EX		213
214	OFFICE	CPT	4" VINYL - STRAIGHT	PNT-EGG	EX	EX	1	214
215	OFFICE	CPT	4" VINYL - STRAIGHT	PNT-EGG	EX	EX	1	215
215B	TOILET	EX	EX	PNT-EGG	EX	EX		215B
216	OPEN OFFICE	CPT	4" VINYL - STRAIGHT	PNT-EGG	EX	EX	1	216
217	OFFICE	CPT	4" VINYL - STRAIGHT	PNT-EGG	APC-1	8'-10"		217
218	OFFICE	CPT	4" VINYL - STRAIGHT	PNT-EGG	APC-1	8'-10"		218
219	OFFICE	CPT	4" VINYL - STRAIGHT	PNT-EGG	APC-1	8'-10"		219
220	OFFICE	CPT	4" VINYL - STRAIGHT	PNT-EGG	APC-1	8'-10"		220
WEST SIDE								
230	OPEN OFFICE	CPT	4" VINYL - STRAIGHT	PNT-EGG	APC-1	8'-0"		230
231	STORAGE	VCT	4" VINYL - COVED	PNT-EGG	APC-1	8'-0"		231
232	OFFICE	CPT	4" VINYL - STRAIGHT	PNT-EGG	EX	EX	1	232
233	OFFICE	CPT	4" VINYL - STRAIGHT	PNT-EGG	APC-1	8'-0"		233
234	OFFICE	CPT	4" VINYL - STRAIGHT	PNT-EGG	APC-1	8'-0"		234
235	HALLWAY	CPT	4" VINYL - STRAIGHT	PNT-EGG	APC-1	EX		235
236	OFFICE	CPT	4" VINYL - STRAIGHT	PNT-EGG	APC-2	EX	1,3	236
237	OFFICE	CPT	4" VINYL - STRAIGHT	PNT-EGG	APC-2	EX	1,3	237
238	OFFICE	CPT	4" VINYL - STRAIGHT	PNT-EGG	APC-1	8'-0"		238
239	OFFICE	CPT	4" VINYL - STRAIGHT	PNT-EGG	APC-1	8'-0"		239
240	EXISTING ELEVATOR LOBBY	EXISTING	EX	PNT-EGG	EX	EX	1,2	240
250	MOTHER'S ROOM	EX	EX	EX	EX	EX	2	250
251	TOILET	EX	EX	PNT-EGG	EX	EX	1,2,4	251
252	BREAKROOM	EX	EX	EX	EX	EX	1,2	252

SCHEDULE ABBREVIATIONS

- EX EXISTING
- CPT- (1-3) CARPET TILE
- VCT- (1-2) VINYL COMPOSITE TILE
- LVT LUXURY VINYL TILE
- PNT-EGG PAINT, EGGSHELL FINISH
- APC-1 15/16" SUSPENSION GRID
3/4" MINERAL FIBER PANELS
- APC-2 EXISTING SUSPENSION GRID
3/4" MINERAL FIBER PANELS

GENERAL FINISH NOTES

- A. ALL HOLLOW METAL DOORS AND FRAMES WITH IN WORK AREAS (INSIDE AND OUTSIDE) TO RECEIVE SEMI-GLOSS PAINT FINISH PER SPEC SECTION 091100.

SCHEDULE REMARKS

1. PATCH IN EXISTING CEILING BACK TO NEW WALLS WITH SALVAGED / NEW MATCHING CEILING PANELS AND GRID PIECES IF POSSIBLE
2. NEW PARTITION WALL TO RECEIVE NEW PAINT AND WALL BASE TO MATCH EXISTING
3. PROVIDE NEW CEILING PANELS IN EXISTING/SALVAGED GRID IN THIS ROOM
4. PATCH IN FLOORING WITH NEW MATCHING VCT FLOORING AND WALL BASE. (V.I.F.)

DOOR AND FRAME SCHEDULE

MARK	LOCATION	SIZE	DOOR			FRAME			GLASS TYPE	LABEL	HARDWARE SET	DETAILS			REMARKS	MARK
			TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH				HEAD	JAMB	SILL		
200	EXISTING ELEVATOR LOBBY	3'-0" X 1'-0" X 1 3/4"	B	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS3	1/A3	2/A3	-	REUSE DOOR	200
201	HALLWAY	3'-0" X 1'-0" X 1 3/4"	-	-	-	-	-	PAINT	-	-	HS3	1/A3	2/A3	-	REUSE DOOR	201
202	OFFICE	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	-	202
203	OFFICE	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	-	203
204	OFFICE	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	-	204
205	OFFICE	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	REUSE DOOR	205
206	OFFICE	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	-	206
207	OFFICE	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	-	207
214	OFFICE	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	-	214
217	OFFICE	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	-	217
218	OFFICE	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	-	218
219	OFFICE	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	-	219
220	OFFICE	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	-	220
230	OPEN OFFICE	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	-	EX	PAINT	-	-	HS3	-	-	-	2	231
231	STORAGE	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS2	1/A3	2/A3	-	-	231
232	OFFICE	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	-	232
233	OFFICE	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	-	233
234	OFFICE	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	-	234
234	OFFICE	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	-	234
237	OFFICE	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	-	237
238	OFFICE	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	-	238
239	OFFICE	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	-	239
240	EXISTING ELEVATOR LOBBY	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS3	1/A3	2/A3	-	REUSE DOOR	240
241A	EXISTING OFFICE	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	-	EX	-	-	-	HS1	-	-	-	2	241A
241B	EXISTING OFFICE	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	-	EX	-	-	-	HS1	-	-	-	2	241B
251	TOILET	3'-0" X 1'-0" X 1 3/4"	A	WOOD	PREFIN	M	HMTL	PAINT	-	-	HS1	1/A3	2/A3	-	1,3	251

SCHEDULE ABBREVIATIONS

- HMTL HOLLOW METAL
- PREFIN PREFINISHED

GENERAL NOTES

- A. ALL WOOD DOORS TO BE FACTORY PREFINISHED PER SPECIFICATION 08416.
- B. ALL HOLLOW METAL DOORS AND FRAMES TO BE FIELD PAINTED PER SPECIFICATION 091100.
- C. PROVIDE WALL STOP FOR DOORS THAT OPEN 90 DEGREES, AND FLOOR STOP FOR DOORS THAT OPEN MORE THAN 90 DEGREES.
- D. DOOR HARDWARE IN PROJECT AREA TO BE RE-KEYED PER OWNERS RECOMMENDATIONS.
- E. CONTRACTOR TO REUSE SALVAGED DOOR HARDWARE AND DOOR HARDWARE IN OWNERS ATTIC STOCK (COORDINATE WITH OWNER) IF POSSIBLE PRIOR TO ORDERING NEW HARDWARE.
- F. REWORK DOOR HARDWARE AS REQUIRED ON SALVAGED DOOR AND FRAMES

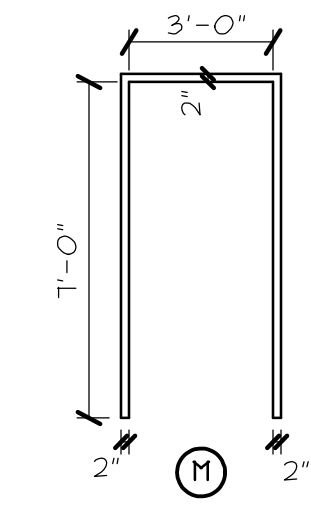
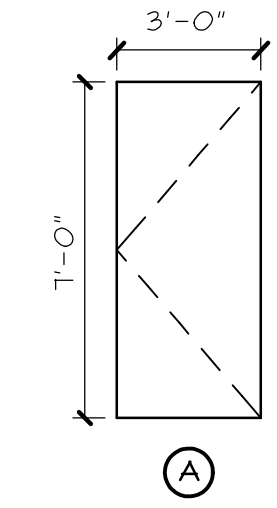
HARDWARE SETS

- NOTE: USE OWNER ATTIC STOCK OF HARDWARE OR SALVAGE HARDWARE IF POSSIBLE
- HS1: 3 HINGES - HAGER BB1219-4.5X4.5 US24D.
1 CYLINDRICAL OFFICE LOCK - SCHLAGE ND50PD-RHO 426.
1 WALL STOP - IVES W540CCV.
3 DOOR SILENCERS - IVES SR64 GREY.
 - HS2: 3 HINGES - HAGER BB1219-4.5X4.5 US24D.
1 CYLINDRICAL STOREROOM LOCK - SCHLAGE ND80PD-RHO 426.
1 DOOR CLOSER - LCN 4040XP-REGARM 689.
1 WALL / FLOOR STOP - IVES W540CCV / F5441 US24D.
3 DOOR SILENCERS - IVES SR64 GREY.
 - HS3: 3 HINGES - HAGER BB1219-4.5X4.5 US24D.
1 CYLINDRICAL CLASSROOM LOCK - SCHLAGE ND10PD-RHO 426.
1 ELECTRIC STRIKE AND CARD READER BY OWNERS DOOR ACCESS VENDOR
1 DOOR CLOSER - LCN 4040XP-REGARM 689.
1 WALL / FLOOR STOP - IVES W540CCV / F5441 US24D.
3 DOOR SILENCERS - IVES SR64 GREY.

REMARKS NOTES

1. PROVIDE 1/2" CLEAR UNDERCUT ON NEW WOOD DOOR.
2. PROVIDE NEW PREFINISHED WOOD DOOR IN EXISTING FRAME.
3. REUSE EXISTING TOILET ROOM DOOR HARDWARE ON NEW DOOR AND FRAME. RECONFIGURE AS NEEDED FOR NEW DOOR SWING

WORK IN THIS AREA IS FOR FUTURE PHASE. NOT IN THIS PHASE CONTRACT. SHOWN FOR REFERENCE ONLY



DOOR AND FRAME TYPES

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

F:\WC EMCO STATES ATTORNEY OFFICE REMODELING\DRAWINGS\ARCH\A3AEC

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STATES ATTORNEY OFFICE REMODELING
WILL COUNTY STATE'S ATTORNEY
WILL COUNTY COURT ANNEX - LEVEL 2
57 N. OTTAWA STREET
JOLIET, ILLINOIS

DATE: 4/28/2025
REVISED:

PROJECT NO. 2411-01

SHEET NUMBER

A3

OF 3 SHEETS



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DATE:04-28-25; EXP:11-30-25

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PLUMBING GENERAL NOTES & SYMBOL LIST

STATES ATTORNEY OFFICE REMODELING
WILL COUNTY STATE'S ATTORNEY
WILL COUNTY COURT ANNEX - LEVEL 2
57 N. OTTAWA STREET
JOLIET, ILLINOIS

DATE: 04-28-25
REVISED:

PROJECT NO.
2411-01

SHEET NUMBER

P0.1

PLUMBING SYMBOL LIST			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A.F.F.	ABOVE FINISHED FLOOR	---	COLD WATER LINE
AG	AIR GAP	---	HOT WATER LINE
C.I.	CAST IRON	---	HOT WATER RECIRCULATION
CO	CLEANOUT	—S—	SUSPENDED SANITARY
CW	COLD WATER SUPPLY	—US—	UNDERGROUND SANITARY
DT	FOOTING DRAIN TILE	—KW—	SUSPENDED KITCHEN WASTE
DW	DISH WASHER	—UKW—	UNDERGROUND KITCHEN WASTE
E.T.R.	EXISTING TO REMAIN	—>	SUSPENDED STORM
FD	FLOOR DRAIN	—>>	UNDERGROUND STORM
GPM	GALLONS PER MINUTE	-----	SUSPENDED VENT
HW	HOT WATER SUPPLY	—CD—	CONDENSATE DRAIN RISER
HWR	HOT WATER RECIRC	---	COLD WATER LINE, E.T.R.
HWT	HOT WATER TANK	---	HOT WATER LINE, E.T.R.
KW	KITCHEN WASTE	---	HOT WATER RECIRC., E.T.R.
LAV	LAVATORY	—S—	SUSPENDED SANITARY, E.T.R.
LP	LOW PRESSURE GAS	—US—	UG SANITARY, E.T.R.
OSD	OPEN SITE DRAIN	—>	SUSPENDED STORM, E.T.R.
P	PUMP	—>>	UG STORM, E.T.R.
PC	PLUMBING CONTRACTOR	-----	SUSPENDED VENT, E.T.R.
P&T	PRESSURE & TEMPERATURE	-----	PIPING/EQUIPMENT DEMOLITION
RD	ROOF DRAIN	e—	DOWN (ELBOW)
RWL	RAIN WATER LEADER	o—	RISER UP (ELBOW)
SAN	SANITARY	—+—	BALL VALVE
SK	SINK	—Z—	CHECK VALVE
ST	STORM	—>	GATE VALVE
UR	URINAL	— —	UNION
UG	UNDER GROUND	—▲—	DIRECTION OF FLOW
v	VENT	—⊕—	POINT OF CONNECTION, V.I.F.
V.I.F.	VERIFY IN FIELD		
VTR	VENT THRU ROOF		
WC	WATER CLOSET		
WH	WATER HEATER		
WD	WASHER & DRYER		
(TJ)	THROUGH JOIST	FBO	FURNISHED BY OTHERS, INSTALLED BY PC
(UJ)	UNDER JOIST		
(BJ)	BETWEEN JOIST	EX	EXISTING PLUMBING FIXTURE / EQUIPMENT TO REMAIN AS IS, UNLESS NOTED IN PLAN OTHERWISE.
DISREGARD ANY SYMBOL OR ABBREVIATION THAT IS NOT APPLICABLE TO THIS PROJECT			

GENERAL

- A. SCOPE OF WORK:**
- INSTALL NEW SINKS AS SHOWN ON PLAN.
- B. CODES AND PERMITS:**
- COMPLY WITH ALL APPLICABLE CODES. OBTAIN ALL NECESSARY APPROVALS AND PAY FOR ALL NECESSARY PERMITS PRIOR TO COMMENCEMENT OF WORK.
 - PLUMBING AND DRAINAGE SYSTEMS TO BE INSTALLED AS PER APPROVED DRAWINGS AND IN ACCORDANCE WITH THE ILLINOIS BUILDING CODE, (LATEST EDITIONS AND AMENDMENTS) AND LOCAL AUTHORITY'S REQUIREMENTS.
 - ALL MATERIALS AND EQUIPMENT SHALL HAVE PRIOR APPROVAL FOR THE APPLICATION BY THE AUTHORITIES HAVING JURISDICTION, E.G. UL AND AGA.
- C. PIPING MATERIALS:**
- DOMESTIC SUPPLY PIPING:
ABOVE THE FINISH FLOOR SHALL BE TYPE "L" COPPER.
BELOW THE SLAB-ON-GRADE LESS THAN 2" SHALL BE TYPE "K" COPPER LINES 2" AND LARGER SHALL BE DUCTILE IRON.
 - ABOVEGROUND: SANITARY, STORM VENT LINES SHALL BE SCHEDULE 40 PVC PIPE COMPLYING WITH ASTM 2665-74 AND NSF 14 WITH WELDED JOINTS (IF CODE PERMITS).

UNDERGROUND: SANITARY, STORM AND VENT LINES SHALL BE SCHEDULE 40 PVC PIPE COMPLYING WITH ASTM 2665-74 AND NSF 14 WITH WELDED JOINTS (IF CODE PERMITS).
- D. NOTES:**
- CONTRACTOR SHALL BECOME FAMILIAR WITH SITE CONDITIONS PRIOR TO SUBMITTING BIDS. CLAIMS FOR EXTRAS DUE TO SITE CONDITIONS WILL NOT BE ACCEPTED.
 - EXCAVATE AND CONFIRM THE LOCATION AND INVERT OF EXISTING STORM AND SANITARY CONNECTIONS AT PROPERTY LINE PRIOR TO WORK COMMENCING. IF EXISTING CONNECTIONS AT PROPERTY LINE ARE FOUND TO BE UNSUITABLE (INSUFFICIENT SIZE OR UNACCEPTABLE INVERT) PLUMBING CONTRACTOR SHALL INFORM THE OWNER/ENGINEER.
 - COORDINATE WITH GENERAL CONTRACTOR LOCATIONS AND SIZES OF REQUIRED PLUMBING CHASES AND ANY ADDITIONAL BRACING BETWEEN STUDS FOR WALL HUNG FIXTURES.
 - COORDINATE WITH GENERAL CONTRACTOR ANY REQUIRED CUTTING OF STRUCTURE TO FACILITATE PASSAGE OF PIPES.
 - THESE DRAWINGS INDICATE DIAGRAMMATICALLY THE INTENT, GENERAL CHARACTER, REQUIREMENTS AND LOCATION OF THE WORK SHOWN AND INCLUDED. THE WORK INDICATED, BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
 - CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM. WHERE THERE IS NO MENTION OF THE RESPONSIBLE PARTY FOR A SPECIFIC ITEM TO BE FURNISHED OR INSTALLED ON THE DRAWINGS, THE DRAWING'S TRADE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR ALL RELATED PURCHASES AND LABOR FOR A COMPLETE OPERATING SYSTEM FOR THIS ITEM. THIS CONTRACTOR SHALL PAY ALL PERMIT FEES, PLAN REVIEW FEES, LICENSE FEES, INSPECTIONS, AND TAXES APPLICABLE TO THEIR DIVISION AND SHALL BE INCLUDED IN THE BASE BID AS PART OF THEIR CONTRACT.
 - CONTRACTOR SHALL BE LICENSED, BONDED, INSURED AND CAPABLE OF PERFORMING QUALITY WORKMANSHIP. THIS CONTRACTOR GUARANTEES ALL OF HIS WORK AND MATERIALS FOR A PERIOD OF ONE (1) FULL YEAR AFTER FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
 - CONTRACTOR SHALL ESTABLISH SAFE WORKING PROCEDURES FOR THE PROTECTION OF THE WORKMEN IN ALL PHASES OF WORK, COMPLYING WITH ALL APPLICABLE PROVISIONS OF CITY, STATE, AND FEDERAL SAFETY LAWS (OSHA) AND AS RECOMMENDED IN THE MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION AS ISSUED BY THE ASSOCIATION OF GENERAL CONTRACTORS OF AMERICA, INC., 20TH AND E. STREETS, N.W. WASHINGTON, D.C.
 - CONTRACTOR SHALL VERIFY ALL MOUNTING, ARRANGEMENTS, HEIGHTS AND LOCATIONS PRIOR TO ROUGH-IN. ANY MENTION OF A SPECIFIC MOUNTING ARRANGEMENT, HEIGHT OR LOCATION SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO VERIFY THE SPECIFIC REQUIREMENT FURNISHED OR THE TRADES WORKING IN THE SAME AREA. NO ADDITIONS TO THE CONTRACT SUM WILL BE PERMITTED FOR ITEMS INSTALLED IN WRONG LOCATIONS, IN CONFLICT WITH OTHER WORK, ETC.
 - ALL CUTTING AND PATCHING (TO ORIGINAL STATE) OF BUILDING MATERIALS AS REQUIRED FOR INSTALLATION OF A COMPLETE WORKABLE SYSTEM. CONTRACTOR SHALL FURNISH AND INSTALL ALL SLEEVES THRU WALLS AND CORING THRU FLOORS.
 - UPON COMPLETION OF THE WORK, CONTRACTOR SHALL REVIEW AND CHECK THE ENTIRE PORTION OF WORK, CLEAN EQUIPMENT AND DEVICES, REMOVE SURPLUS MATERIALS AND RUBBISH FROM THE PROPERTY AND LEAVE THE WORK IN NEAT AND CLEAN ORDER AND IN COMPLETE WORKING CONDITION. EACH RESPECTIVE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY CARTONS, DEBRIS, EQUIPMENT, ETC., INSTALLED BY THIS CONTRACTOR INCLUDING EQUIPMENT FURNISHED BY OTHERS AND UNCRATED OR REMOVED FROM CARTONS BY THIS CONTRACTOR.
 - CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE PURCHASE, DELIVERY, RECEIVING, UNLOADING, UNCRATING, STORING, SETTING IN PLACE, AND PROTECTING OF ALL NEW EQUIPMENT FURNISHED BY THIS CONTRACTOR AND EQUIPMENT FURNISHED BY OWNER AND INSTALLED BY THIS CONTRACTOR FROM DAMAGE BY VANDALISM AND WEATHER DURING CONSTRUCTION.
 - CONTRACTOR TO VERIFY IN FIELD AND PROVIDE EXTENSIONS REQUIRED TO ADJUST ALL FIXTURES TO GRADE LEVEL TO MAINTAIN INVERTS AS DETERMINED BY ALL FIXTURES RELATED (GREASE TRAPS, MAN HOLES, ETC.)

- E. INSPECTIONS AND APPROVALS:**
- ALL WORK AND MATERIALS WILL BE SUBJECT TO INSPECTION FROM TIME TO TIME BY THE ENGINEER AND THE AUTHORITY HAVING JURISDICTION. INFORM THE ENGINEER 48 HOURS IN ADVANCE OF ANY TESTS OR COVERING BURYING OR CONCEALMENT OF SERVICES TO ALLOW FOR INSPECTION. DO NOT COVER, BURY OR CONCEAL SERVICES WITHOUT THE ENGINEER'S APPROVAL.
 - DO NOT CHANGE ANY MATERIAL, EQUIPMENT OR CONSTRUCTION METHOD FROM WHAT IS SHOWN ON THE DRAWINGS AND SPECIFICATION WITHOUT THE APPROVAL OF THE ENGINEER. ANY CHANGES MADE WITHOUT THE ENGINEER'S AUTHORIZATION MAY RESULT IN THE WORK NOT BEING ACCEPTED AND/OR DELAY IN ISSUANCE OF THE FINAL LETTER OF ASSURANCE.
 - THE DOCUMENTS INDICATE THE MINIMUM STANDARDS TO BE APPLIED TO THE WORK. ANY APPROVAL OF, OR AGREEMENT TO, A LOWER STANDARD, BY ANY PERSON OR AUTHORITY WILL NOT NECESSARILY BE APPROVED BY THE ENGINEER AND MAY RESULT IN THE WORK NOT BEING ACCEPTED AND/OR DELAY IN ISSUANCE OF THE FINAL LETTER OF ASSURANCE.
- F. COOPERATION WITH OTHER TRADES:**
- GIVE FULL COOPERATION TO OTHER SUB TRADES AND FURNISH ANY INFORMATION NECESSARY TO PERMIT THE WORK OF ALL SUB TRADES TO BE INSTALLED SATISFACTORILY AND WITH THE LEAST POSSIBLE INTERFERENCE OR DELAY.
 - INSTALL ALL EQUIPMENT AND PIPING TO OBTAIN CEILING HEIGHTS SPECIFIED OR SHOWN ON THE ARCHITECTURAL DRAWINGS. IN CASE OF CONFLICT, NOTIFY THE ENGINEER BEFORE FABRICATING AND INSTALLING ANY ITEM REFERRED TO ABOVE. CARRY OUT ANY REQUIRED ADJUSTMENT.
- G. MATERIALS AND WORKMANSHIP:**
- UNLESS OTHERWISE SPECIFIED, ALL MATERIALS AND APPARATUS DELIVERED FOR WORK SHALL BE NEW, OF GOOD QUALITY AND SHALL BE FURNISHED, DELIVERED, ERECTED, CONNECTED AND FINISHED IN EVERY DETAIL, AND SHALL BE SELECTED AND ARRANGED SO AS TO FIT PROPERLY INTO THE BUILDING SPACES. WHERE NO SPECIFIC KIND OR QUALITY OF MATERIAL IS GIVEN, A GOOD STANDARD ITEM, AS APPROVED BY THE ENGINEER, SHALL BE FURNISHED.
 - USE SKILLED AND QUALIFIED, FITTERS, PLUMBERS, METAL WORKERS, WELDERS, HELPERS, AND LABOR REQUIRED TO UNLOAD, TRANSFER, ERECT, CONNECT UP, ADJUST, START, OPERATE AND TEST SUCH SYSTEMS. HELPERS AND UNQUALIFIED WORKERS WILL BE DIRECTLY SUPERVISED AT ALL TIMES WHILE WORKING ON THE SITE BY QUALIFIED TRADES PERSONS.
 - UPON REQUEST BY THE ENGINEER, PRODUCE COPIES OF TRADE QUALIFICATIONS OF ANY SELECTED WORKERS.
 - THE ENGINEER SHALL HAVE THE RIGHT TO REJECT ANY ITEM THAT, IN HIS/HER OPINION, DOES NOT CONFORM TO AN ACCEPTABLE STANDARD OF QUALITY, QUIETNESS OF OPERATION, FINISH, APPEARANCE AND PERFORMANCE. UNACCEPTABLE MATERIAL AND/OR WORKMANSHIP MUST BE RECTIFIED TO THE APPROVAL OF THE ENGINEER.
 - UNLESS NOTED OTHERWISE, ALL FIXTURES SHALL BE PROVIDED WITH APPLICABLE ACCESSORIES (SUCH AS SUPPLY STOPS, WASTE TRAPS, FIXTURE MOUNTING SUPPORTS, BOLT CAPS, WATER CLOSET SEATS, ETC., AS REQ'D.)
 - ALL EQUIPMENT AND DEVICES SHALL BEAR AGA, CSA OR UL APPROVED LABELS AND CERTIFICATIONS SHALL VERIFY IF LOCAL CODE REQUIRED.
- H. SUBMITTALS:**
- PRIOR TO COMMENCEMENT OF WORK, SUBMIT AT LEAST 2 COPIES OF COMPLETE SHOP DRAWINGS (SPEC BOOK) ON ALL SPECIFIED OR APPROVED EQUAL MATERIALS TO BE USED. ALLOW 5 WORKING DAYS FOR THE ENGINEER TO REVIEW.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELAYS CAUSED BY ANY REQUIRED RESUBMISSION OF SHOP DRAWINGS.
 - THE ENGINEER'S REVIEW IS FOR GENERAL COMPLIANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS AND WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR CORRECTNESS OF PERFORMANCE, FUNCTION, DETAILS AND DIMENSIONS.
 - WHERE ALTERNATE EQUIPMENT HAS BEEN SUBMITTED THE CONTRACTOR BEARS RESPONSIBILITY FOR ANY REDESIGN AND CONSTRUCTION REQUIRED TO ACCOMMODATE THE EQUIPMENT.
- I. DRAWINGS AND SPECIFICATIONS:**
- CONTRACT DRAWINGS FOR PLUMBING WORK ARE IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THIS CONTRACTOR SHALL LAY OUT THE WORK AT THE SITE AND PROVIDE ANY NECESSARY OFFSETS AND ADJUSTMENTS TO SUIT SITE CONDITIONS AND AVOID CONFLICT WITH OTHER TRADES.
 - TAKE ANY INFORMATION INVOLVING ACCURATE DIMENSIONS OF THE BUILDING FROM THE FIGURED DIMENSIONS OF THE STRUCTURAL AND ARCHITECTURAL DRAWINGS OR BY MEASUREMENTS TAKEN AT THE SITE.
 - CARE SHALL BE TAKEN TO ENSURE THAT THE INSTALLATION IS IN ACCORDANCE WITH DETAILED DRAWINGS, WHERE GIVEN, AND THAT THE INSTALLATION MEETS THE DESIGN REQUIREMENTS.
 - THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE COMPLEMENTARY. ANYTHING CALLED FOR IN THESE SPECIFICATIONS OR SHOWN ON THE DRAWINGS SHALL BE CONSIDERED AS APPEARING IN BOTH.
 - ANY DISCREPANCIES FOUND BETWEEN DRAWINGS AND SPECIFICATIONS, LEAVING IN DOUBT THE TRUE INTENT OR MEANING SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE WORK BEING PERFORMED.
 - THE TERM "PROVIDE" WHERE USED SHALL BE UNDERSTOOD TO INCLUDE LABOR, MATERIALS AND SERVICES TO SUPPLY AND INSTALL THE ITEM OR WORK REFERRED TO.

EXECUTION

- TESTING:**
- STORM AND SANITARY PIPING: TEST UNDER 10 FEET STANDING HEAD.
 - WATER PIPING: PRESSURE TEST AT 1-1/2 TIMES THE SYSTEM PRESSURE BUT AT LEAST 100 PSI BY AIR OR WATER, FOR 1 HOUR, WITH NO SIGNIFICANT PRESSURE DROP.
 - ALTERNATE TESTS WILL GOVERN AS CALLED FOR BY PLUMBING INSPECTOR. TESTING SHALL BE WITNESSED AND SIGNED BY OWNER.
- A. INSTALLATION:**
- PROVIDE CHROME PLATED SIGNETCHON PLATES WHEREVER PLUMBING LINES PENETRATE A FINISHED WALL.
 - PROVIDE SHUT OFF VALVES AND ACCESSORIES IN ACCESSIBLE LOCATIONS TO EACH APPLIANCE, PIECE OF EQUIPMENT, FIXTURE GROUP OR BRANCHES. PROVIDE VALVES IN ACCORDANCE WITH CODES AND WHERE SHOWN ON THE DRAWINGS.
 - INSTALL BALANCING VALVES WHERE SHOWN ON THE DRAWINGS OR AS REQUIRED AND ADJUST THE VALVES FOR BALANCED FLOW ON THE RECIRCULATION SYSTEM.
 - IDENTIFY EACH PIPING SYSTEM WITH STICK ON DECALS TO INDICATE SERVICE AND DIRECTION OF FLOW. DO NOT RUN WATER PIPES IN OUTSIDE WALLS WITHOUT PROTECTION FROM FREEZING TO THE ENGINEER'S APPROVAL.
 - THREADED FITTINGS ON GALVANIZED STEEL PIPING SHALL BE 150# CLASS GALVANIZED MALLEABLE IRON FILLING CONFORMING TO ASTM A-197 SPECIFICATION.
 - FURNISH AND INSTALL UNIONS WHERE INDICATED OR NECESSARY FOR REPAIR OR SERVICE. UNIONS 2" AND SMALLER SHALL BE STANDARD GROUND JOINT BRASS TO IRON SEAT, MALLEABLE IRON, SCREWED. UNIONS 2-1/2" AND LARGER SHALL BE STANDARD CAST IRON FLANGED UNIONS 125# CLASS.
 - HORIZONTAL SOIL OR WASTE LINES SHALL BE AT A SLOPE OF NOT LESS THAN 1/8" PER FOOT AND SHALL BE HELD CLOSE TO THE CONSTRUCTION TO MAINTAIN A MAXIMUM OF HEAD ROOM. ALL CHANGES OF DIRECTION AND JUNCTIONS SHALL BE MADE WITH "Y" FITTINGS AND 1/8 BENDS.
 - HOT AND COLD WATER PIPING SHALL BE PROPERLY PITCHED TO LOW POINTS IN THE SYSTEM WHERE DRAINS SHALL BE INSTALLED.
 - VALVES SHALL BE MANUFACTURED BY CRANE, STOCKHAM. VALVE NUMBERS INDICATED HERE ARE CRANE. GATE VALVE, 2" AND SMALLER #428. GLOBE VALVE, 2" AND SMALLER #7. CHECK VALVE, 2" AND SMALLER #86. VALVES ARE SUITABLE FOR IRON OR STEEL PIPE ONLY. IF COPPER PIPING IS USED, MODIFY VALVE NUMBERS AS REQUIRED AND SUBMIT PROPER VALVES FOR APPROVAL.
 - ALL SUPPLY PIPING TO BE RUN OVERHEAD, UNLESS NOTED OTHERWISE.
 - ALL SUPPLY PIPING TO BE A MINIMUM OF 3/4" DIA., UNLESS NOTED OTHERWISE.
 - EACH FIXTURE WILL HAVE A 3/4" X 1/2" AIR CHAMBER.
 - DO NOT USE PVC IN PLENUM RETURN CEILING.
 - ALL FIXTURES WILL BE FURNISHED WITH INTEGRAL STOPS.
 - BURIED SANITARY AND WASTE LINES WILL BE A MINIMUM OF 4" DIA. WHILE BURIED VENTS SHALL BE MIN. 2".
 - ALL FLOOR DRAINS AND FIXTURES TO BE BOLTED IN ACCORDANCE WITH LOCAL CODES.
 - ALL HORIZONTAL BENT PIPING SHALL BE RUN ABOVE FINISHED CEILINGS AND SLOPED UP TOWARD MAIN SANITARY.
 - THE PLUMBING CONTRACTOR WILL NOT INSTALL COMBUSTIBLE PIPING MATERIAL IN OR THROUGH FIRE RATED ASSEMBLIES.
 - HORIZONTAL DRAINAGE PIPING SHALL BE PITCHED NOT LESS THAN 1/4" PER FOOT FOR PIPING 3" DIA. AND UNDER, WHILE HORIZONTAL DRAINAGE PIPING SHALL BE PITCHED NOT LESS THAN 1/8" PER FOOT FOR PIPING 4" DIA. AND OVER.
 - ALL CONNECTIONS BETWEEN DISSIMILAR METALS SHALL BE MADE WITH DIELECTRIC UNIONS OR COUPLINGS.
 - PIPES WHICH PASSING THROUGH THE FOUNDATION OR RATED WALL SHALL BE SLEEVED WITH WATER STOP OR FIRE RESIST "DEPEND TO THE APPLICATION" TO PROVIDE NOT LESS THAN 1" CLEARANCE AROUND THE PIPE. THE OPENING BETWEEN THE PIPE AND THE PIPE SLEEVE SHOULD BE TIGHTLY PACKED WITH OAKUM AND CAULKED WITH LEAD.
- EXPANSION AND SETTLEMENT:**
- INSTALL PIPES WITH ALLOWANCE FOR EXPANSION, CONTRACTION AND SETTLING. DOMESTIC HOT WATER PIPE SHALL HAVE EXPANSION JOINTS, LOOPS OR OFFSETS AS SHOWN ON THE DRAWINGS AND AT LEAST EVERY 100 FEET OF STRAIGHT RUN. PROVIDE PIPE ANCHORS BETWEEN EXPANSION ELEMENTS.
 - PROVIDE CLEARANCE WHERE PIPES PENETRATE STRUCTURES TO ALLOW FOR PIPE MOVEMENT.
 - PROVIDE HORIZONTAL OFFSETS AT BRANCHES FROM HOT AND COLD WATER RISERS WITH AT LEAST TWO ELBOWS PRIOR TO A FIXTURE TAKE-OFF.
 - ALLOW FOR EXPANSION/CONTRACTION OF COPPER PIPE AS FOLLOWS:
HOT WATER AT 180 F MAX - 1.67/100FT OR 0.13%
HOT WATER AT 140 F MAX - 1.27/100FT OR 0.13%
DOM COLD WATER 75 F MAX - 0.47/100FT OR 0.033%
 - ALLOW FOR SETTLEMENT OF WOOD FRAME CONSTRUCTION OF UP TO 1" PER FLOOR. PROVIDE EXTRA SLOPE ON BRANCH DRAINS AND OR EXPANSION COMPENSATORS TO MAINTAIN THE CODE REQUIRED SLOPE AFTER THE BUILDING HAS SETTLED.

- E. INSULATION:**
- ALL INSULATION WORK SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE PLUMBING CODE AND AUTHORITIES HAVING JURISDICTION BY AN EXPERIENCED FIRM WITH AN ESTABLISHED REPUTATION IN THIS FIELD, AND TO THE SATISFACTION OF THE ARCHITECT/ENGINEER
 - ALL DOMESTIC WATER PIPING TO BE INSULATED WITH FIBERGLASS INSULATION AND VAPOR BARRIER PER FOLLOWING:
• CW : ALL SIZE, 1" INSULATION.
• HW & HWR : 1" AND SMALLER, 1" INSULATION.
 - INSULATION TO BE AS MANUFACTURED BY INSUL-SHIELD OR KNAUF INDUSTRIES. ONE PIECE MOLDED INSULATION WITH SELF SEALING ADHESIVE. ALL FITTINGS TO BE COMPLETE WITH ONE PIECE PRE MOLDED HIGH IMPACT PVC FITTING COVERS.
 - ALL SANITARY P-TRAPS IN AREAS SUBJECT TO FREEZING SHALL BE INSULATED WITH MIN. 1/2" INSULATION COMPLETE WITH VAPOR BARRIER.
 - FIRE RATED CEILING: PIPE INSULATION SHALL BE FIRE RATED AND COMPLY WITH REQUIREMENTS OF DIVISION 07 FOR PIPE INSULATION AND SEAL PENETRATIONS.
 - PLENUM: PVC PIPING ARE NOT ALLOWED IN PLENUM CEILING UNLESS INSULATED WITH PLENUM RATED INSULATION COMPLY WITH REQUIREMENTS OF DIVISION 07 FOR PIPE INSULATION AND SEAL PENETRATIONS.
 - PROVIDE BLACK FOAM INSULATION.
- F. CONDENSATE DRAINS:**
- FURNISH LABOR AND MATERIAL FOR THE INSTALLATION OF CONDENSATE DRAINS AND TRAPS FOR AIR CONDITIONING EQUIPMENT, WALK IN COOLERS, FREEZERS, KITCHEN EQUIPMENT AND OTHER EQUIPMENT. COORDINATE LOCATION AND SIZE WITH EQUIPMENT INSTALLER.
 - PROVIDE INDIRECT CONNECTIONS TO SANITARY OR STORM DRAINAGE SYSTEM IN ACCORDANCE WITH LOCAL REQUIREMENTS.
- G. HANGERS:**
- SUPPORT PIPING ON ADJUSTABLE MALLEABLE IRON OR WROUGHT STEEL HANGERS. GRINNELL #97, 101, 260, 269R APPROVED, EQUAL. INSTALLATION AND SPACING SHALL BE AS REQUIRED BY GOVERNING CODE AND AUTHORITIES HAVING JURISDICTION.
 - PIPE STRAPPING USED IN PLACE OF APPROVED PIPE HANGERS WILL NOT BE ACCEPTED.
 - HANGERS SHALL BE OF STANDARD WEIGHT STEEL OR IRON ROD AND RING OR CLEVIS TYPE.
 - ALL SUSPENDED HORIZONTAL PIPING SHALL BE SUPPORTED BY HANGERS WAGED NO FURTHER THAN 8'-0" APART (4'-0" APART FOR PVC PIPING). NO PIPING SHALL BE SELF-SUPPORTING NOR BE SUPPORTED FROM EQUIPMENT CONNECTIONS.
 - SUPPORTS AND HANGERS SHALL BE INSTALLED TO PERMIT FREE EXPANSION AND CONTRACTION IN PIPING SYSTEMS UNLESS PIPE REQUIRES FIRM ANCHOR CONTROL.
- H. CLEANOUTS:**
- CLEANOUTS SHALL BE INSTALLED ON ALL INTERIOR AND EXTERIOR SANITARY AND STORM DRAINAGE PIPING IN ACCORDANCE WITH LOCAL PLUMBING CODES.
 - CLEANOUTS SHALL BE FULL SIZE FOR PIPES OF 4" DIAMETER AND LESS, AND 4" SIZE FOR ALL LARGER PIPES.
 - CLEANOUTS IN SIDEWALKS, CONCRETE OR PAVED AREAS FOR OUTSIDE DRAINAGE PIPING AND FOOTING DRAINS TO BE EXTENDED TO SURFACE IN C.I. PIPE WITH PIPE ANCHORED IN 12" X 12" X 6" COLLAR OF CONCRETE.
 - WHERE CLEANOUTS MUST BE INSTALLED IN FINISHED FLOORS USE APPROPRIATE CLEANOUT COVERS.
 - CLEANOUTS SHALL BE PLACED AT ALL DEAD ENDS, AT CHANGES OF DIRECTION, AT 50'-0" INTERVALS ON HORIZONTAL RUNS, OUT OF HIGH TRAFFIC AREAS, (NOT UNDER CASES) ETC. WHERE CLEANOUTS OCCUR CONCEALED SPACES, THEY SHALL BE PROVIDED WITH EXTENSION TO FLOOR ABOVE OR TO WALLS. A HAND-HOLE TEST TEE SHALL BE PLACED AT THE BASE OF EACH STAGE.
- I. ACCESS DOORS:**
- PROVIDE ACCESS TO ALL CONCEALED PLUMBING EQUIPMENT FOR OPERATION, MAINTENANCE, CALIBRATION AND ADJUSTMENT, INCLUDING VALVES, UNIONS, AND CLEANOUTS.
 - ACCESS DOORS FOR CLEANOUTS SHALL BE 8" X 8" MINIMUM. ALL OTHER ACCESS DOORS SHALL BE A MINIMUM OF 12" X 12", WHERE FULL BODY OR HEAD AND SHOULDERS ACCESS IS REQUIRED, DOORS SHALL BE 24" X 24".
 - ACCESS DOORS IN PLASTERED WALLS AND CEILINGS SHALL BE FLUSH TYPE MADE OF 14 GA. STEEL WITH RECESSED PERFORATED ANCHOR FLANGE AND PLASTER KEY. CONCEALED HINGES AND SCREWDRIVER OPERATED CAM LOCKS. ACUDOR TYPE PS 5030.
 - ACCESS DOORS IN DRYWALL PARTITIONS OR CEILINGS, TILE OR MASONRY WALLS SHALL BE FLUSH TYPE MADE OF 16 GA STEEL HAVING MOUNTING FLANGE, CONCEALED HINGES AND SCREWDRIVER CAM LOCKS. ACUDOR TYPE UF 5000.
 - ACCESS DOORS TO HAVE PRIMER FINISH EXCEPT FOR CERAMIC TILED AREAS WHERE ACCESS DOOR SHALL BE STAINLESS STEEL.
 - ACCESS DOORS REQUIRED IN FIRE PARTITIONS AND SIMILAR FIRE RATED STRUCTURE SHALL BE UL APPROVED FIRE DOORS, SUITABLE FOR THE STRUCTURE IN WHICH THEY ARE TO BE LOCATED. ACCESS DOORS SHALL BE AS MANUFACTURED BY ACUDOR OR APPROVED EQUAL.
- J. FIRE STOPPING:**
- ALL FIRE STOPPING SHALL BE DONE IN ACCORDANCE WITH THE LOCAL BUILDING CODE TO MAINTAIN FIRE RATINGS OF THE STRUCTURE AND FINISHES. MATERIAL USED FOR FIRE STOPPING SHALL BE TESTED AND APPROVED FOR THE PARTICULAR APPLICATION. PROVIDE COPIES OF THE TEST RESULTS TO THE ENGINEER ON REQUEST.
 - PIPES PASSING THROUGH WALLS AND FLOORS SHALL NOT BE IN DIRECT CONTACT WITH THE STRUCTURE. PENETRATIONS SHALL BE SIZED TO ALLOW 1/2" CLEARANCE BETWEEN THE PIPE AND THE STRUCTURE.
 - PIPES PENETRATING OR PARTLY PENETRATING FIRE SEPARATIONS, FIREWALLS AND FIRE RATED STRUCTURES SHALL HAVE THE 1/2" SPACE BETWEEN THE PIPE AND THE STRUCTURE CAULKED WITH UL APPROVED HIGH TEMPERATURE INSULATION CEMENT TO AVOID FIRE, SMOKE AND SOUND TRANSMISSION.
 - PIPES PASSING THROUGH WALLS AND FLOOR THAT ARE NOT ARE RATED SHALL HAVE THE 1/2" SPACE BETWEEN THE PIPE AND THE STRUCTURE CAULKED WITH INSULATION AND/OR INSULATION CEMENT TO AVOID SOUND, SMOKE AND DUST TRANSMISSION.
 - THIS WORK TO BE UNDERTAKEN BY QUALIFIED TRADES PEOPLE ONLY.



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DATE: 04-28-25; EXP: 11-30-25

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GENERAL NOTES

- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. AS CLAIMS FOR EXTRAS DUE TO UNCOVERED SITE CONDITIONS WILL NOT BE ACCEPTED.
- DRAWINGS SHOW EXISTING CONDITIONS IN DIAGRAMMATIC FORM. EXTENT OF SYSTEMS, SIZES, LOCATIONS AND CONDITIONS ARE TO BE VERIFIED IN THE FIELD.
- FOR THE PURPOSE OF CLARIFICATION SOME OF THE REQUIRED DEMOLITION WORK HAS BEEN SHOWN ON THIS SHEET. THE WORK SHOWN ON THIS SHEET IS NOT THE ENTIRE EXTENT OF DEMOLITION AND SHOULD BE USED IN CONJUNCTION WITH THE OTHER DRAWINGS AND FIELD VERIFICATION TO DETERMINE THE SCOPE OF DEMOLITION.
- COORDINATE SHUT-DOWNS OF ANY EXISTING SYSTEMS OR SERVICES REQUIRED FOR THE DEMOLITION OF EXISTING WORK WITH THE OWNER. PROVIDE PRIOR NOTIFICATION OF SUCH SHUT-DOWNS. DO NOT SHUT-DOWN ANY SYSTEM WITHOUT PRIOR AUTHORIZATION FROM THE OWNER.
- REFER TO ARCHITECTURAL PLANS FOR CEILING AND WALL WORK IN THE AREA OF WORK. THIS CONTRACTOR IS RESPONSIBLE TO REMOVE, RESTORE, CUT, CORE, PATCH, PAINT, ETC. OF ANY CEILING AND WALL WORK THAT NOT SHOWN ON THE ARCHITECTURAL PLAN. THE CONTRACTOR SHALL DOCUMENT ANY DAMAGED CEILING AND WALL PRIOR TO COMMENCING THE WORK.
- THIS CONTRACTOR SHALL VISIT SITE PRIOR TO START OF THE JOB TO DETERMINE EXACT ROUTING OF DUCT WORK TO MINIMIZE DESTRUCTION OF FINISH AREA.
- DEAD ENDS SHALL NOT EXCEED 2'-0".

PLAN NOTES

1. EXISTING PLUMBING PIPING TO REMAIN.
2. NO PLUMBING WORK IN THE TOILET. SHOWN FOR COORDINATION.
3. EXISTING 4" SANITARY AND VENT STACK TO REMAIN.
4. EXISTING DOMESTIC WATER MAIN TO REMAIN.
5. REMOVE EXISTING PLUMBING FIXTURE. DISCONNECT AND REMOVE INDICATED PLUMBING FIXTURE COMPLETELY WITH ALL ASSOCIATED PIPING, VALVES, HANGERS, SUPPORT, ACCESSORIES, ETC. REMOVE ALL ASSOCIATED PLUMBING PIPING TO EXISTING STACK LINE AND CAP.



1 FLOOR PLAN - PLUMBING DEMOLITION
 1/8" = 1'-0"
 0' 1' 2' 5' 10' 20'

FLOOR PLAN - PLUMBING DEMOLITION

STATES ATTORNEY OFFICE REMODELING
WILL COUNTY STATE'S ATTORNEY
WILL COUNTY COURT ANNEX - LEVEL 2
57 N. OTTAWA STREET
JOLIET, ILLINOIS

DATE: 04-28-25
REVISED:

PROJECT NO. 2411-01

SHEET NUMBER

PD1.0

2 OF 3 SHEETS



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- GENERAL NOTES**
- THIS CONTRACTORS TO MAKE ALL REQUIRED PIPE OPENINGS THROUGH EXISTING ROOF, WALLS, AND FLOORS AS REQUIRED FOR WORK INDICATED INCLUDING FIRE STOPPING AND PATCHING TO MATCH EXISTING UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE ARCHITECTURAL DRAWINGS.
 - COORDINATE WITH THE OWNER SHUT-DOWN OF ANY EXISTING SYSTEMS OR SERVICES REQUIRED FOR INSTALLATION OF WORK. DETERMINE ALLOWED SHUT-DOWN PERIODS WITH OWNER. DO NOT SHUT-DOWN ANY SYSTEM WITHOUT PRIOR AUTHORIZATION FROM OWNER.
 - SCHEDULE AND COORDINATE ALL WORK TO MEET THE PROJECT PHASING.
 - COORDINATE ALL WORK WITH THAT OF ALL OTHER TRADES IN ORDER TO AVOID INTERFERENCES.
 - INSTALL ALL WORK TIGHT TO BOTTOM OF EXISTING STRUCTURE.
 - ALL THE DIFFUSER AND GRILLE LOCATIONS SHALL BE CONSIDERED "A/A". COORDINATE THE LOCATION WITH ARCHITECT REELECTED CEILING PLANS.

- PLAN NOTES**
- EXISTING PLUMBING PIPING TO REMAIN.
 - NO PLUMBING WORK IN THE TOILET. SHOWN FOR COORDINATION.
 - EXISTING 4" SANITARY AND VENT STACK TO REMAIN.
 - EXISTING DOMESTIC WATER MAIN TO REMAIN.
 - REMOVE EXISTING PLUMBING FIXTURE. DISCONNECT AND REMOVE INDICATED PLUMBING FIXTURE COMPLETELY WITH ALL ASSOCIATED PIPING, VALVES, HANGERS, SUPPORT, ACCESSORIES, ETC. REMOVE ALL ASSOCIATED PLUMBING PIPING TO EXISTING STACK LINE AND CAP.

FLOOR PLAN - PLUMBING PROPOSED

STATES ATTORNEY OFFICE REMODELING
WILL COUNTY STATE'S ATTORNEY
WILL COUNTY COURT ANNEX - LEVEL 2
57 N. OTTAWA STREET
JOLIET, ILLINOIS

1 FLOOR PLAN - PLUMBING PROPOSED
1/8" = 1'-0"
0 1' 2" 5' 10' 20'
N

DATE: 04-28-25
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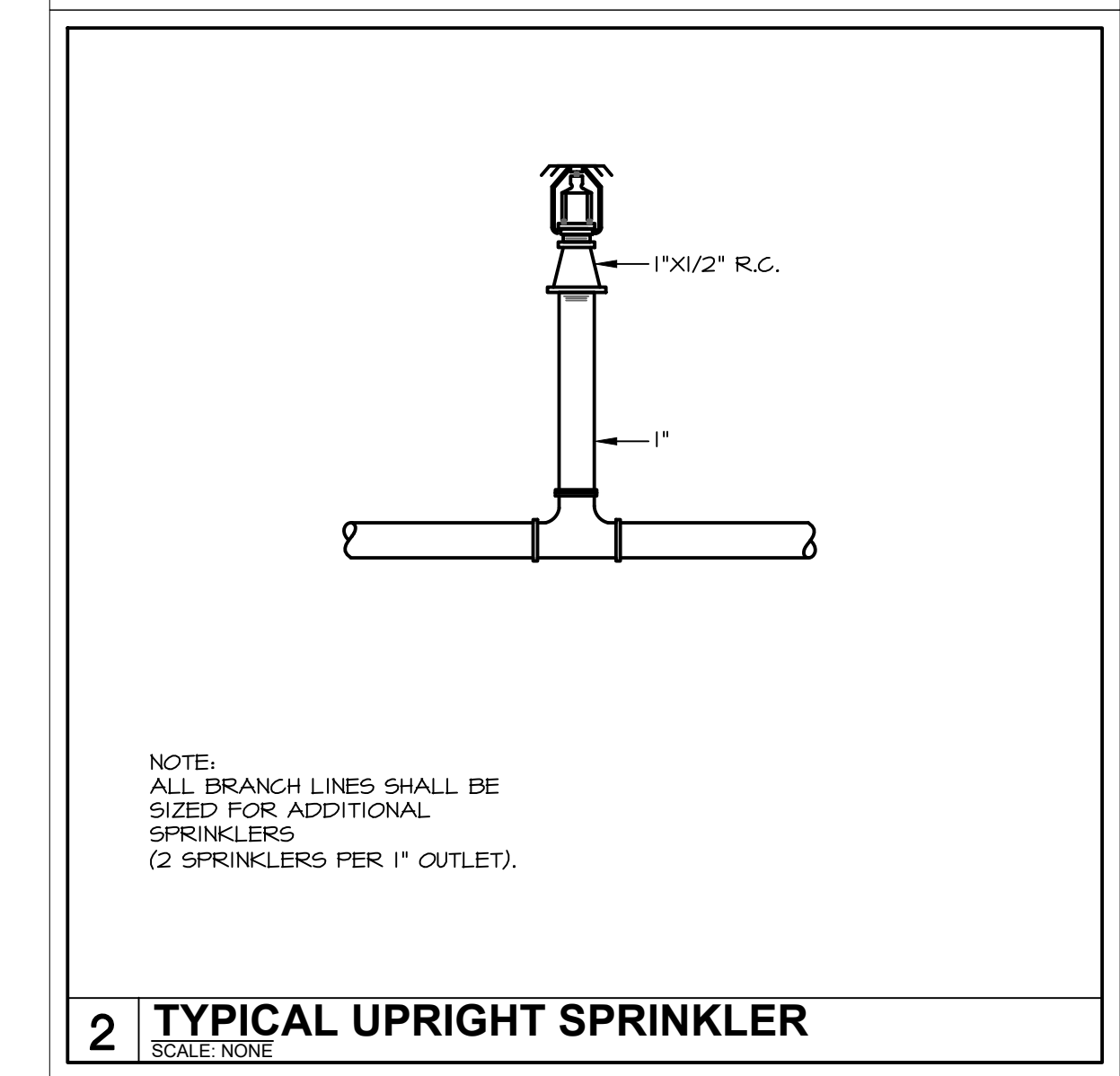
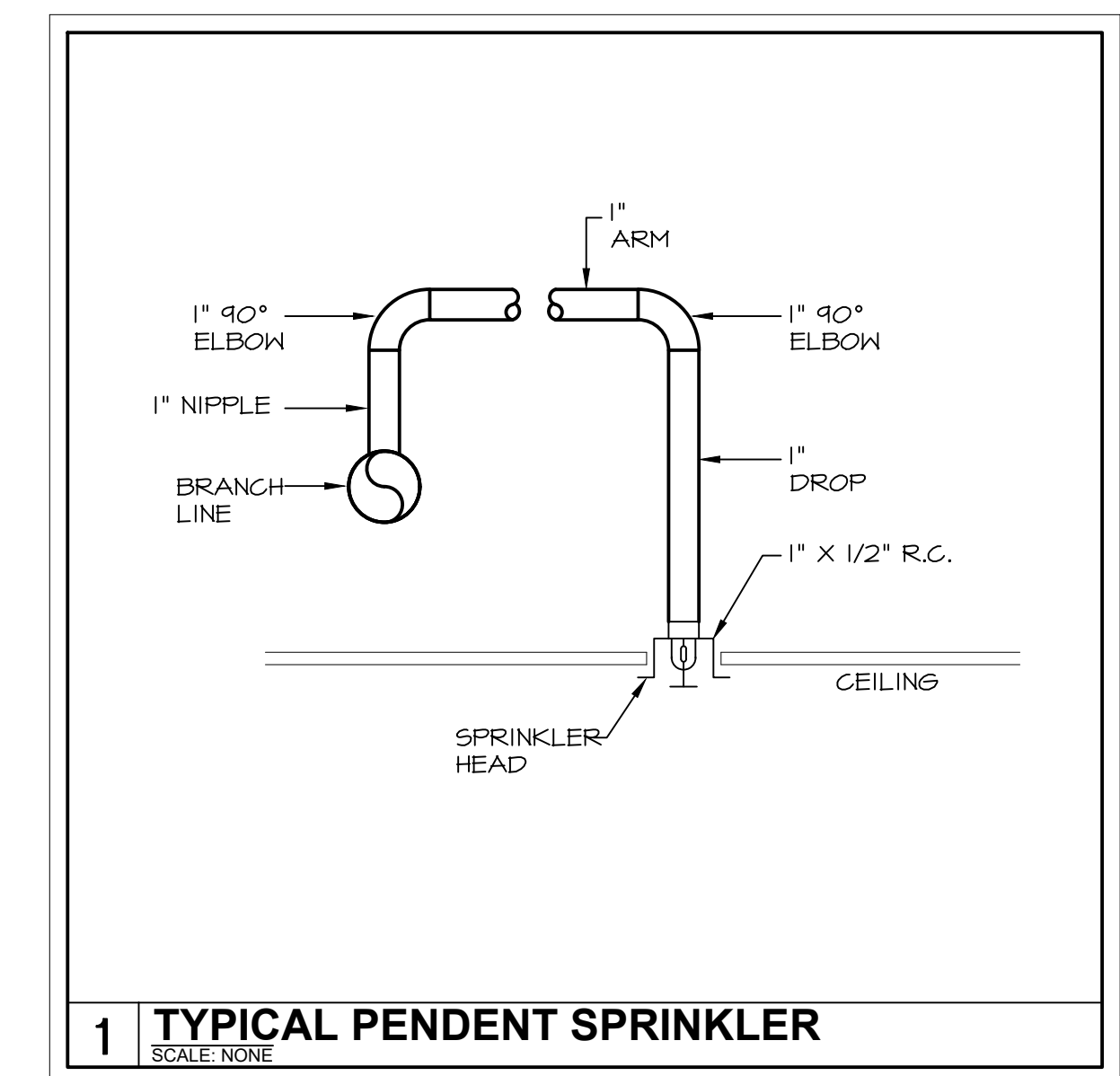
SHEET NUMBER

P1.0

3 OF 3 SHEETS

PART 1: GENERAL	PART 3: EXECUTION
<p>A. SCOPE:</p> <p>1. INSTALL SPRINKLER SYSTEMS PER DOCUMENT DRAWINGS AND AS OUTLINED IN DESIGN CRITERIA INCLUDING ALL PIPING, SPRINKLER HEADS, VALVES, WATER MOTOR GONG, HANGERS AND SUPPORTS, SYSTEM DRAINS, AND ALL OTHER ACCESSORIES AS REQUIRED.</p> <p>2. COORDINATE CONNECTION TO INCOMING MAINS, LOCATION OF FIRE PROTECTION ASSEMBLY AND REQUIRED FLOOR DRAINS WITH PLUMBING.</p> <p>B. CODES:</p> <p>1. PROVIDE AND INSTALL SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13, NFPA 14 AND LOCAL FIRE DEPARTMENT.</p> <p>2. IN ADDITIONAL THE INSULATION SHALL MEET THE APPROVAL OF OWNER'S INSURANCE.</p> <p>C. MATERIALS:</p> <p>1. SPRINKLER HEADS: SPRINKLER HEADS SHALL BE STANDARD BRASS, WHITE OR CHROME FINISH WITH MINIMUM 1/2" NPT AND SHALL BE UL LISTED, ACCEPTABLE MANUFACTURER: VIKING, RELIABLE, CENTRAL AND GRINELL.</p> <p>2. PIPING: FIRE PROTECTION PIPING SHALL BE SCHEDULE 40 BLACK STEEL WITH FLANGED, SCREWED, WELDED, OR GROOVED FITTINGS ACCORDANCE WITH NFPA 13, ANSI AND ASTM-S3.</p> <p>3. VALVES: VALVES SHALL BE UL LISTED WITH RATINGS OF NOT LESS THAN 175 PSI WATER PRESSURE. VALVE SHALL BE SHALL BE COMPLY WITH REQUIREMENTS OF NFPA 13.</p> <p>4. PIPE HANGERS: PIPE HANGERS SHALL COMPLY WITH REQUIREMENTS OF NFPA 13.</p> <p>5. SIAMESE CONNECTION: FIRE DEPARTMENT CONNECTION: SHALL COMPLY WITH REQUIREMENTS OF NFPA 13 AND LOCAL FIRE DEPARTMENT. ACCEPTABLE MANUFACTURER: RELIABLE, NATIONAL, WILSON AND COUSINS.</p> <p>6. SPARE SPRINKLERS: THIS CONTRACTOR TO PROVIDE A WALL MOUNTED METAL CABINET ADJACENT TO THE SPRINKLER VALVE STATION, CONTAINING SPARE SPRINKLERS IN ACCORDANCE WITH NFPA 13.</p> <p>7. PRESSURE GAUGES: FURNISH AND INSTALL UL APPROVED PRESSURE GAUGES ON BOTH THE UPSTREAM AND DOWNSTREAM SIDE OF ALL PUMPS, RISER OR FEED MAIN OR NEAR EACH TEST CONNECTION AND WHERE SHOWN ON THE DRAWINGS. GAUGES SHALL BE A MARSH TYPE 8 OR APPROVED EQUAL.</p> <p>8. FIRE HOSE CABINETS: PROVIDE FIRE HOSE CABINETS WITH 1 1/2" HOSE VALVE, CAP AND CHAIN. ACCEPTABLE MANUFACTURER: NATIONAL, WILSON & COUSINS, INTEGRATED.</p> <p>D. NOTES:</p> <p>1. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH WORK OF OTHER TRADES.</p> <p>2. PRIOR TO COMMENCING THE WORK THIS CONTRACTOR SHALL VISIT THE JOB SITE TO VERIFY EXISTING CONDITION.</p> <p>3. ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE TO ALLOW MAXIMUM CLEAR HEAD ROOM.</p> <p>4. THE LAYOUT SHOWN IN THIS SET IS FOR BIDDING PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR HYDRAULIC CALCULATION, LAYOUT, SEIZING THE BRANCH PIPING AND FINAL WORKING DRAWINGS.</p> <p>5. THIS CONTRACTOR SHALL OBTAIN A WATER FLOW TEST NEAR THE PROJECT SITE AND THE RESULT SHALL BE USE FOR HYDRAULIC CALCULATION.</p> <p>6. UNLESS RUNNING INTO UNFORESEEN OBSTRUCTIONS, KEEP THE MAIN PIPE ROUTING THE SAME AS SHOWN IN THE DRAWINGS. DO NOT DIMINISH THE MAIN PIPE SIZE SHOWN IN THE DRAWING.</p> <p>7. THIS CONTRACTOR SHALL OBTAIN A RECENT FIRE PUMP TEST AND THE RESULT SHALL BE USE FOR HYDRAULIC CALCULATION.</p> <p>8. PIPING SYSTEM MUST BE PITCHED AND DRAINABLE FOR DRY SYSTEMS IN ACCORDANCE WITH NFPA 13.</p> <p>9. PENDANT SPRINKLER HEADS MUST BE LOCATED AT THE CENTER OF THE CEILING TILES. IF AUTHORITIES HAVING JURISDICTION REQUIRED ANY ADDITIONAL SPRINKLER HEAD, THIS CONTRACTOR SHALL PROVIDE THEM WIO ANY COST TO THE OWNER.</p> <p>E. PIPE SLEEVES:</p> <p>F. PIPE SLEEVES TO BE 20 GAUGE GALVANIZED SHEET METAL. IF PASSING THROUGH STRUCTURAL WALLS OR BEAMS IN WHICH CASE THEY ARE TO BE STANDARD WALL BLACK STEEL PIPE.</p> <p>G. FIT SLEEVES FLUSH ON EITHER SIDE OF WALL OR BEAM THROUGH WHICH THEY PASS AND EXTEND SLEEVES THROUGH FLOORS, TERMINATING 3" TO 6" ABOVE FINISHED FLOOR.</p> <p>H. FOR PIPE SIZES 1" - 3 1/2" THE SLEEVE SHALL BE 2" LARGER AND FOR PIPE SIZES 4" AND LARGER THE SLEEVE SHALL BE 4" LARGER.</p> <p>I. COVER OPENINGS FOR ALL EXPOSED PIPES PASSING THROUGH WALLS USING CAST IRON ESCUTCHEON PLATES WITH SET SCREWS.</p> <p>J. USE RESILIENT FIRE RESISTANT MATERIAL AND FIRE RATED VAPOR RESISTANT SEALANT TO SEAL SPACE BETWEEN PIPE AND SLEEVE.</p> <p>K. SEISMIC PROTECTION:</p> <p>1. ALL CROSS MAINS, LOOPS 2" AND LARGER, ALL FEED MAINS AND RISES SHALL BE PROVIDED BY SWAY BRACING.</p> <p>2. ALL BRACING SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 13.</p> <p>L. HEAT TRACE</p> <p>1. HEAT TRACING SHALL BE PROVIDED IN ACCORDANCE WITH THE LOCAL REQUIREMENTS AND THE MANUFACTURER'S RECOMMENDATIONS. HEAT TRACING TO BE RAYCHEM XL-TRACE AND SHALL COMPLY WITH UL AND CSA STANDARDS.</p> <p>2. PROVIDE AN AMBIENT AIR TEMPERATURE THERMOSTAT TO SHUT OFF THE HEAT TRACING ABOVE 49°F.</p> <p>3. TYPE OF CABLE SIZING AND INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SEE DRAWINGS FOR MORE DETAILS.</p> <p>4. THIS CONTRACTOR SHALL COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR FOR A SEPARATE CIRCUIT PROTECTED BY A GROUND FAULT CIRCUIT BREAKER FOR EACH HEATING CABLE.</p> <p>5. VERIFY OPERATION OF HEATING CABLE PRIOR TO COVERING WITH INSULATION.</p> <p>6. HEAT TRACING SHALL BE MONITORED AS PER CITY REQUIREMENTS AND COORDINATED WITH ELECTRICAL CONTRACTOR, ACCEPTABLE MANUFACTURER: RAYCHEM.</p>	<p>A. DESIGN CRITERIA:</p> <p>1. A SAFETY FACTOR OF 10% OR 5 PSI WHICHEVER IS GREATER SHALL BE USE FOR ALL THE SYSTEM HYDRAULIC CALCULATION.</p> <p>2. FLOW VELOCITY IN FIRE PROTECTION PAINING SHALL BE AS FOLLOW: 1 1/2" AND SMALLER PIPE = 20 FT/SEC MAXIMUM 2" AND LARGER PIPE = 32 FT/SEC MAXIMUM</p> <p>3. MAXIMUM FLOOR AREA OF ANY ONE FLOOR TO BE PROTECTED BY ONE SPRINKLER SYSTEM RISER SHALL BE AS FOLLOW: LIGHT HAZARD = 52000 FT² ORDINARY HAZARD = 52000 FT²</p> <p>WET SYSTEM: LIGHT HAZARD GROUP 1:</p> <p>1. AREAS INCLUDE: ENTIRE BUILDING.</p> <p>2. AREA DENSITY 0.10 GPM OVER MOST REMOTE 1500 FT² PER HEAD, 225 FT² PER HEAD, 100 GPM HOSE DEMAND.</p> <p>3. PROVIDE QUICK RESPONSE 155°F SPRINKLER HEAD THROUGHOUT AND ONE ANNUNCIATED ZONE.</p> <p>EXCEPTION:</p> <p>1. AREAS INCLUDE: EQUIPMENT ROOM, ELECTRICAL CLOSETS, JANITOR CLOSETS, STORAGE ROOM.</p> <p>2. AREA DENSITY 0.15 GPM OVER MOST REMOTE 1500 FT² PER HEAD, 130 FT² PER HEAD, 250 GPM HOSE DEMAND.</p> <p>3. PROVIDE QUICK RESPONSE 155°F SPRINKLER HEAD THROUGHOUT AND ONE ANNUNCIATED ZONE.</p> <p>WET SYSTEM: ORDINARY HAZARD GROUP 1:</p> <p>1. AREAS INCLUDE:</p> <p>2. PROVIDE QUICK RESPONSE SPRINKLER HEADS THROUGHOUT AND ONE ANNUNCIATED ZONE.</p> <p>WET SYSTEM: ORDINARY HAZARD GROUP 2:</p> <p>1. AREAS INCLUDE: RETAIL SPACES.</p> <p>2. PROVIDE QUICK RESPONSE SPRINKLER HEADS THROUGHOUT AND ONE ANNUNCIATED ZONE.</p> <p>DRY SYSTEM: LIGHT HAZARD GROUP 1:</p> <p>1. AREAS INCLUDE:</p> <p>2. PROVIDE QUICK RESPONSE SPRINKLER HEADS THROUGHOUT AND ONE ANNUNCIATED ZONE.</p> <p>B. TESTS AND INSPECTIONS:</p> <p>1. THIS CONTRACTOR SHALL PROVIDE ALL LABORS, MATERIALS AND EQUIPMENTS NECESSARY FOR ALL THE TESTS. ALL TESTS ARE SUBJECT TO INSPECTION. GENERAL CONTRACTOR AND/OR OWNER REPRESENTATIVE SHALL BE WITNESS THE TESTS.</p> <p>2. AT LEAST 48 HOURS BEFORE COMMENCING A TEST THIS CONTRACTOR SHALL INFORM THE GENERAL CONTRACTOR AND THE AUTHORITY HAVING JURISDICTION.</p> <p>3. HYDRAULICALLY TEST ALL WET AND DRY SPRINKLER SYSTEMS AT MINIMUM 200 PSI FOR 2 HOURS WITH NO LEAKAGE IN ACCORDANCE WITH NFPA 13.</p> <p>4. IN ACCORDANCE WITH NFPA 13 AND THE LOCAL FIRE DEPARTMENT REQUIREMENTS, THIS CONTRACTOR SHALL TESTS AND INSPECTIONS REQUIRED FOR CONTRACTORS MATERIAL AND TEST CERTIFICATE.</p> <p>C. FLUSHING SYSTEMS:</p> <p>1. PRIOR TO MAKING FINAL CONNECTIONS REMOVE ALL DIRT AND FOREIGN MATTERS BY FLUSHING ALL PIPING. RUN DISCHARGE TO SANITARY.</p> <p>D. SHOP DRAWINGS:</p> <p>THIS CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND THE PREPARATION OF SHOP DRAWINGS AND LETTERS OF ASSURANCE. PROVIDE SEALED DRAWINGS COMPLETE WITH COPIES OF HYDRAULIC CALCULATIONS TO THE AUTHORITY HAVING JURISDICTION FOR FIRE PROTECTION PERMIT AND OWNERS INSURANCE UNDERWRITERS. IN ADDITION THE SAME DOCUMENTS MUST PROVIDE FOR ARCHITECT / ENGINEER FOR REVIEW AND APPROVAL.</p> <p>SHOP DRAWING SHALL INCLUDE THE FOLLOWING:</p> <p>1. DATA FOR WATER FLOW</p> <p>2. TYPES AND QUANTITIES OF SPRINKLER HEADS</p> <p>E. FINAL ACCEPTANCE:</p> <p>AN APPROVED AND PROPERLY BOUND MAINTENANCE PROGRAM SHALL BE PROVIDED. THE MAINTENANCE PROGRAM SHALL INCLUDE OPERATION AND MAINTENANCE MANUALS, AS BUILT DRAWINGS, COPY OF "CONTRACTORS MATERIAL AND TEST CERTIFICATE" AND COPY OF VERIFICATION OF SYSTEM ACCEPTANCE BY LOCAL FIRE DEPARTMENT. THE MAINTENANCE PROGRAM SHALL TURNOVER TO OWNER AT SUBSTANTIAL COMPLETION OF THIS JOB.</p>

FIRE PROTECTION SYMBOL LIST			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AG	AIR GAP	— —	FP PIPING
CF	CORROSION PROOF	—○—	RISER DOWN (TEE)
QR	QUICK RESPONSE	—○—	RISER DOWN (ELBOW)
FP	FIRE PROTECTION	—○—	RISER UP (ELBOW)
FPC	FIRE PROTECTION CONTRACTOR	— —	UNION
A.A.F.	ABOVE FINISHED FLOOR	—○—	FLOW SWITCH
O.S.D.	OPEN SITE DRAIN	—○—	PRESSURE GAUGE
V.I.F.	VERIFY IN FIELD	— —	LIGHT STROBE
GPM	GALLONS PER MINUTE	— —	DIRECTION OF FLOW
P	PUMP	— —	POINT OF CONNECTION, V.I.F.
UG	UNDER GROUND	— —	1" INSPECTOR TEST CONNECTION
(TJ)	THROUGH JOIST	— —	2 1/2" FIRE HOSE VALVE CABINET
(UJ)	UNDER JOIST	— —	
(BU)	BETWEEN JOIST	— —	
DISREGARD ANY SYMBOL OR ABBREVIATION THAT IS NOT APPLICABLE TO THIS PROJECT			



FIRE PROTECTION GENERAL NOTES & SYMBOL LIST

STATES ATTORNEY OFFICE REMODELING
WILL COUNTY STATE'S ATTORNEY
WILL COUNTY COURT ANNEX - LEVEL 2
57 N. OTTAWA STREET
JOLIET, ILLINOIS

DATE: 04-28-25
REVISED:

PROJECT NO.
2411-01

SHEET NUMBER

F0.1

1 OF 3 SHEETS



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FLOOR PLAN -
FIRE PROTECTION
DEMOLITION

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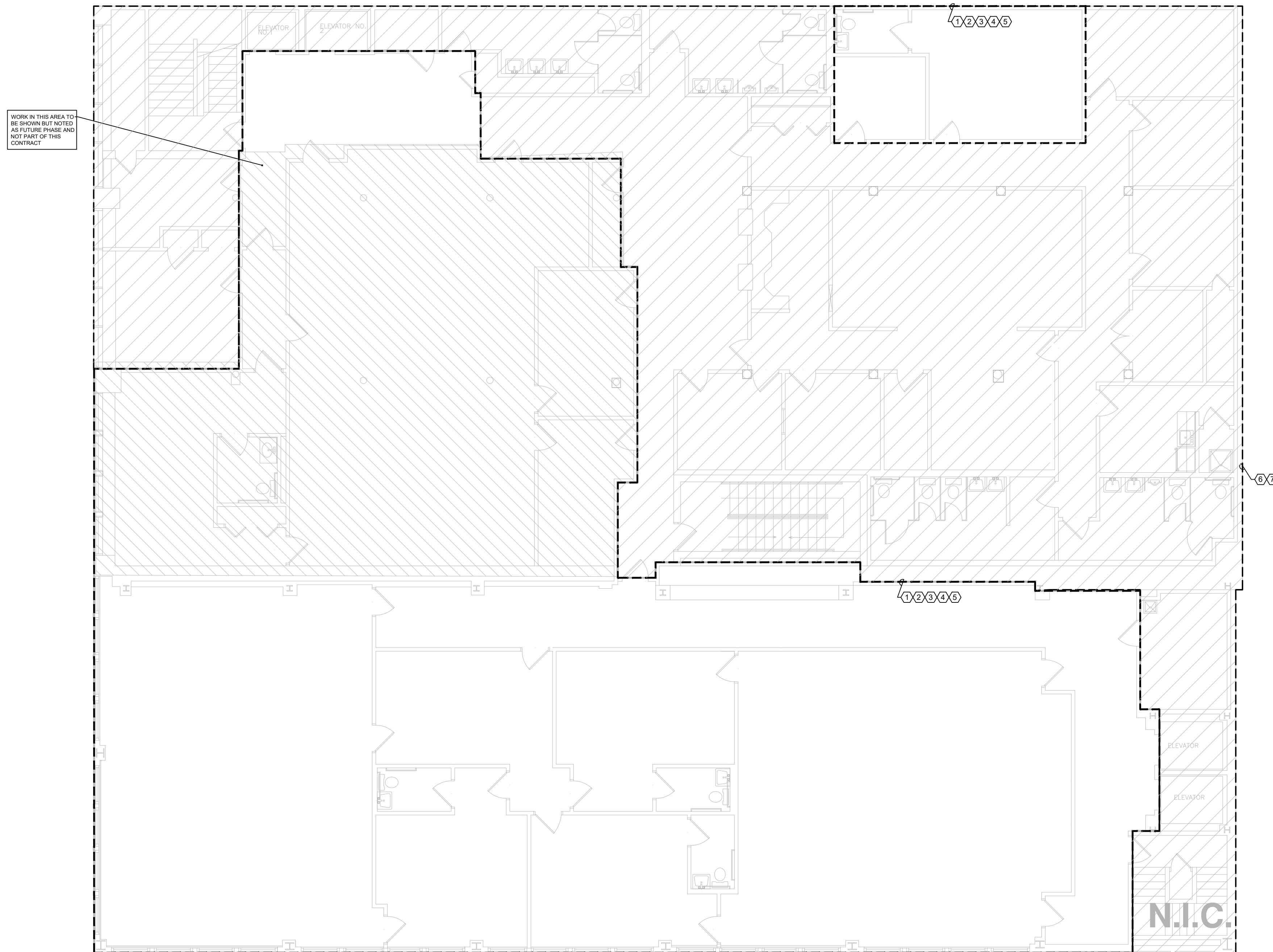
SHEET NUMBER

FD1.0

2 OF 3 SHEETS

- GENERAL NOTES**
- A COMPLETE AND ACCURATE DESCRIPTION OF ALL FIRE PROTECTION WORK WITHIN THE AFFECTED AREAS CANNOT BE ACCOMPLISHED THROUGH THE MEDIA OF DRAWINGS AND SPECIFICATIONS. IN EVERY CASE WHERE SUCH EXISTING FIRE PROTECTION WORK PREVENTS PROPER CONSTRUCTION OF NEW WORK AS INDICATED, PERFORM WHATEVER WORK AND PROVIDE WHATEVER MATERIALS ARE REQUIRED IN ORDER TO REMOVE, REROUTE, RELOCATE OR IN OTHER WAYS ALTER THAT EXISTING INTERIOR AND/OR SITE FIRE PROTECTION WORK. SUCH PERFORMANCE AS GENERALLY OUTLINED HEREIN AND AS IS FOUND NECESSARY UNDER FIELD CONDITIONS SHALL BE CONSIDERED AS INCLUDED UNDER THE CONTRACT.
 - COORDINATE ALL THE ABANDONED FIRE PROTECTION PIPING WITH GENERAL CONTRACTOR AND/OR BUILDING ENGINEER PRIOR TO REMOVING ALL ABANDONED PIPING AND ASSOCIATED HANGERS AND SUPPORT.
 - CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. AS CLAIMS FOR EXTRAS DUE TO UNCOVERED SITE CONDITIONS WILL NOT BE ACCEPTED.
 - DRAWINGS SHOW EXISTING CONDITIONS IN DIAGRAMMATIC FORM. EXTENT OF SYSTEMS, SIZES, LOCATIONS AND CONDITIONS ARE TO BE VERIFIED IN THE FIELD.
 - FOR THE PURPOSE OF CLARIFICATION SOME OF THE REQUIRED DEMOLITION WORK HAS BEEN SHOWN ON THIS SHEET. THE WORK SHOWN ON THIS SHEET IS NOT THE ENTIRE EXTENT OF DEMOLITION AND SHOULD BE USED IN CONJUNCTION WITH THE OTHER DRAWINGS AND FIELD VERIFICATION TO DETERMINE THE SCOPE OF DEMOLITION.
 - COORDINATE SHUT-DOWNS OF ANY EXISTING SYSTEMS OR SERVICES REQUIRED FOR THE DEMOLITION OF EXISTING WORK WITH THE OWNER. PROVIDE PRIOR NOTIFICATION OF SUCH SHUT-DOWNS. DO NOT SHUT-DOWN ANY SYSTEM WITHOUT PRIOR AUTHORIZATION FROM THE OWNER.
 - THIS CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILINGS, PROVIDE AND INSTALL ALL PATCHING OF EXISTING WALLS, AND FLOORS AS MADE NECESSARY BY THEIR DEMOLITION WORK, UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS.

- PLAN NOTES**
- AREA OF THE WORK. EXISTING WET PIPE FIRE SPRINKLER PROTECTION TO REMAIN.
 - MODIFY THE EXISTING FIRE PROTECTION SYSTEM AS REQUIRED FOR THE GENERAL, HVAC, PLUMBING, AND ELECTRICAL WORK IN THIS AREA. DEMOLISH THE EXISTING FIRE SPRINKLERS AND WET PIPE FIRE SPRINKLER PIPING AND INSTALL SPECIFIED WET PIPE FIRE SPRINKLER PIPING AND FIRE SPRINKLERS AS REQUIRED TO MEET THE PLAN AND OCCUPANCY REQUIREMENTS.
 - EXISTING FLOOR VALVE WITH TAMPER SWITCH TO REMAIN.
 - EXISTING FLOW SWITCH TO REMAIN.
 - FIRE PROTECTION SYSTEM AND FIRE ALARM SYSTEM ARE TO BE IN SERVICE AT THE END OF EACH DAYS WORK.
 - RECONNECT TO FIRE PROTECTION PIPING OUTSIDE OF THE AREA OF WORK AND WHERE REQUIRED TO MAINTAIN SERVICE TO ADJACENT AREAS.
 - THIS BUILDING IS PROTECTED THROUGHOUT WITH A WET PIPE FIRE SPRINKLER SYSTEM.



1 FLOOR PLAN - FIRE PROTECTION DEMOLITION

1/8" = 1'-0"

0' 1' 2' 5' 10' 20'

N

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FLOOR PLAN - FIRE PROTECTION PROPOSED

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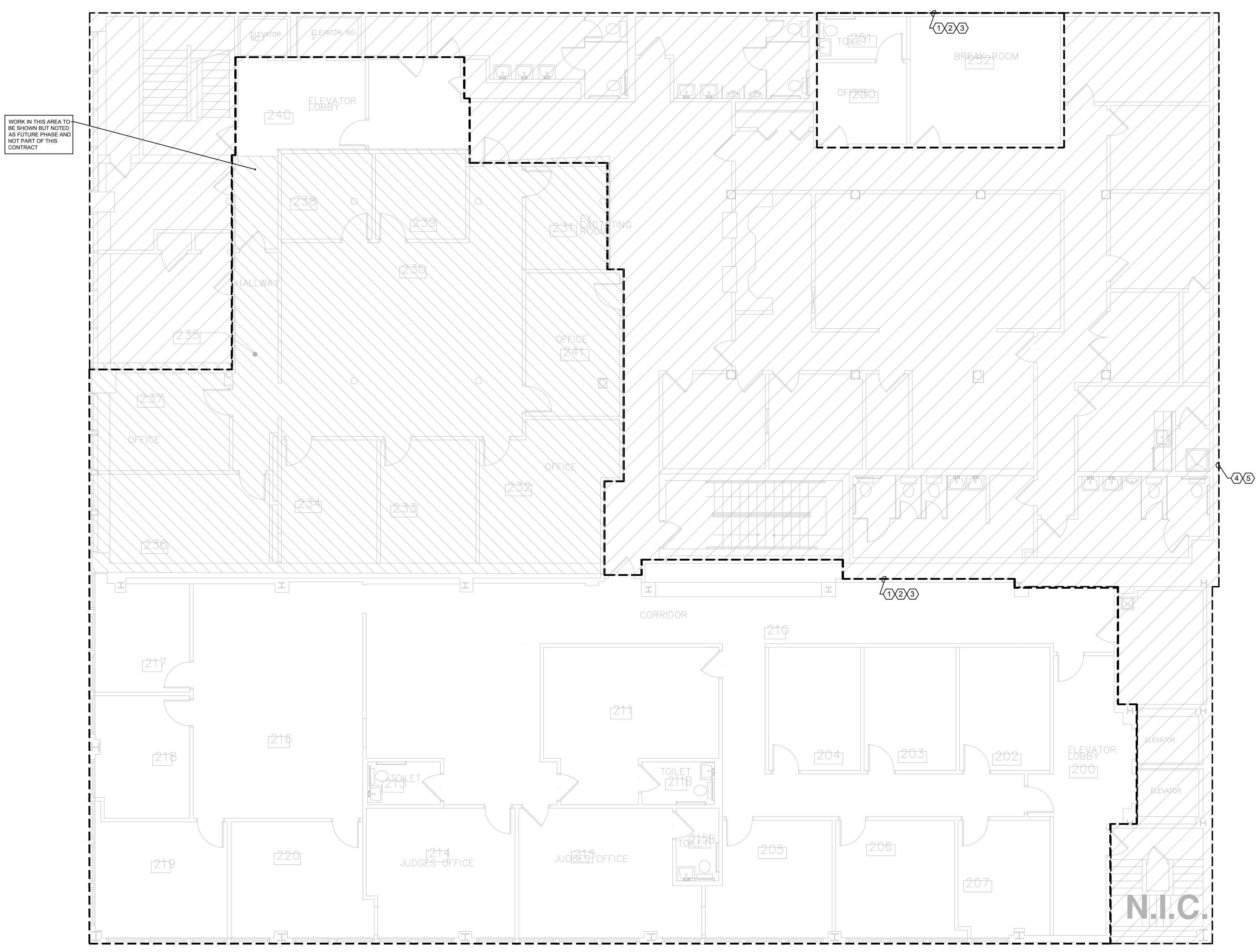
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3 OF 3 SHEETS



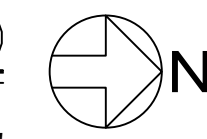
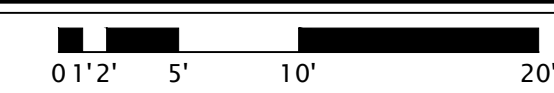
WORK IN THIS AREA TO BE SHOWN BUT NOTED AS FUTURE PHASE AND NOT PART OF THIS CONTRACT

- ### GENERAL NOTES
- THESE DRAWINGS DO NOT SHOW ALL EXISTING CONDITIONS. SOME EXISTING CONDITIONS ARE SHOWN ON THE DRAWINGS IN DIAGRAMMATIC FORM. ALL EXISTING SIZES, LOCATIONS AND CONDITIONS ARE TO BE VERIFIED IN THE FIELD.
 - THIS CONTRACTOR TO MAKE ALL REQUIRED PIPE OPENINGS THROUGH EXISTING ROOF, WALLS, AND FLOORS AS REQUIRED FOR WORK INDICATED INCLUDING FIRE STOPPING AND PATCHING TO MATCH EXISTING UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE ARCHITECTURAL DRAWINGS.
 - COORDINATE WITH THE OWNER SHUT-DOWN OF ANY EXISTING SYSTEMS OR SERVICES REQUIRED FOR INSTALLATION OF WORK. DETERMINE ALLOWED SHUT-DOWN PERIODS WITH OWNER. DO NOT SHUT-DOWN ANY SYSTEM WITHOUT PRIOR AUTHORIZATION FROM OWNER.
 - WHEN EXISTING FIRE SPRINKLER HEADS ARE REUSED AND SHOWN IN THE NEW CEILING, THE CONTRACTOR MUST MEET ALL REQUIREMENTS WHEN INSTALLING THE EXISTING FIRE SPRINKLER HEADS IN THE NEW CEILING. PROVIDE FITTINGS AND EXTRA PIPING TO INSTALL THE EXISTING HEADS IN THE LOCATION SHOWN IN THE NEW PLAN.
 - COORDINATE ALL WORK WITH THAT OF ALL OTHER TRADES IN ORDER TO AVOID INTERFERENCES.
 - INSTALL ALL WORK TIGHT TO BOTTOM OF EXISTING STRUCTURE.
 - REINFORCEMENT MUST BE LOCATED BY NON-DESTRUCTIVE MEANS SUCH AS THE USE OF A TACHOMETER. INVESTIGATION MUST BE PERFORMED ON THE TOP AND BOTTOM OF THE SLAB. CONTACT STRUCTURAL ENGINEER PRIOR TO CUTTING OR CORING IF SIZE OF OPENING REQUIRES CUTTING REINFORCEMENT.
 - SCHEDULE AND COORDINATE ALL WORK TO MEET THE PROJECT PHASING.
 - ALL AREAS SHOWN ON THIS SHEET SHALL BE PROVIDED WITH WET TYPE SPRINKLER SYSTEMS.
 - REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS.
 - PROVIDE UPRIGHT SPRINKLER HEADS WITH GUARDS IN ALL AREAS WITH EXPOSED CEILING/STRUCTURE.
 - PROVIDE RECESSED PENDENT SPRINKLER HEADS WITH ESCUTCHEONS IN THE OFFICE AREA.

- ### PLAN NOTES
1. CONTRACTOR TO RELOCATE EXISTING SPRINKLER HEADS AS REQUIRED BY NEW ROOM LAYOUT.
 2. PROVIDE A COMPLETE WET PIPE FIRE SPRINKLER SYSTEM FOR THE AREA OF WORK TO MEET THE NEW PLAN AND USE PER PROJECT SPECIFICATION. THE CONTRACTOR IS TO PROVIDE ALL REQUIRED CEILING ACCESS PANELS FOR SPRINKLER PIPING INSTALLATION.
 3. DETERMINE REQUIREMENTS AND DEVELOP AN INTERIM PLAN WITH THE OWNER, ARCHITECT, LOCAL AUTHORITY, AND THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH FOR FIRE PROTECTION DURING THE CONSTRUCTION PERIOD.
 4. FIRE PROTECTION SYSTEM AND FIRE ALARM SYSTEM ARE TO BE IN SERVICE AT THE END OF EACH DAYS WORK.
 5. MAINTAIN FIRE PROTECTION SERVICE TO AREAS OUTSIDE THE SCOPE OF WORK.

1 FLOOR PLAN - FIRE PROTECTION PROPOSED

1/8" = 1'-0"



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DATE:04-28-25; EXP:11-30-25

GENERAL

- B. CODES AND PERMITS:**
1. COMPLY WITH ALL APPLICABLE CODES. OBTAIN ALL NECESSARY APPROVALS AND PAY FOR ALL NECESSARY PERMITS PRIOR TO COMMENCEMENT OF WORK.
 2. DUCTWORK AND MECHANICAL SYSTEMS TO BE INSTALLED AS PER APPROVED DRAWINGS AND IN ACCORDANCE WITH THE INTENTIONAL MECHANICAL CODE 2015, AND LOCAL AUTHORITY'S REQUIREMENTS.
 3. ALL MATERIALS AND EQUIPMENT SHALL HAVE PRIOR APPROVAL FOR THE APPLICATION BY THE AUTHORITIES HAVING JURISDICTION, E.G. UL AND AGA.
- C. NOTES:**
1. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS PRIOR TO SUBMITTING BIDS. CLAIMS FOR EXTRAS DUE TO SITE CONDITIONS WILL NOT BE ACCEPTED.
 2. COORDINATE WITH GENERAL CONTRACTOR ANY REQUIRED CUTTING OF STRUCTURE TO FACILITATE PASSAGE OF PIPES.
 3. THESE DRAWINGS INDICATE DIAGRAMMATIC ALLY THE INTENT, GENERAL CHARACTER, REQUIREMENTS AND LOCATION OF THE WORK SHOWN AND INCLUDED. THE WORK INDICATED, BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
 4. CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM. WHERE THERE IS NO MENTION OF THE RESPONSIBLE PARTY FOR A SPECIFIC ITEM TO BE FURNISHED OR INSTALLED ON THE DRAWINGS, THE DRAWING'S TRADE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR ALL RELATED PURCHASES AND LABOR FOR A COMPLETE OPERATING SYSTEM FOR THIS ITEM. THIS CONTRACTOR SHALL PAY ALL PERMIT FEES, PLAN REVIEW FEES, LICENSE FEES, INSPECTIONS, AND TAXES APPLICABLE TO THEIR DIVISION AND SHALL BE INCLUDED IN THE BASE BID AS PART OF THEIR CONTRACT.
 5. CONTRACTOR SHALL BE LICENSED, BONDED, INSURED AND CAPABLE OF PERFORMING QUALITY WORKMANSHIP. THIS CONTRACTOR GUARANTEES ALL OF HIS WORK AND MATERIALS FOR A PERIOD OF ONE (1) FULL YEAR AFTER AND ACCEPTANCE BY THE OWNER AND ENGINEER.
 6. CONTRACTOR SHALL ESTABLISH SAFE WORKING PROCEDURES FOR THE PROTECTION OF THE WORKMEN IN ALL PHASES OF WORK, COMPLYING WITH ALL APPLICABLE PROVISIONS OF CITY, STATE, AND FEDERAL SAFETY LAWS (OSHA) AND AS RECOMMENDED IN THE MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION* AS ISSUED BY THE ASSOCIATION OF GENERAL CONTRACTORS OF AMERICA, INC., 20TH AND E. STREETS, N.W. WASHINGTON, D.C.
 7. CONTRACTOR SHALL VERIFY ALL MOUNTING, ARRANGEMENTS, HEIGHTS AND LOCATIONS PRIOR TO PROVISION OF A SPECIFIC MOUNTING. THE CONTRACTOR'S ARRANGEMENT, HEIGHT OR LOCATION SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO VERIFY THE SPECIFIC REQUIREMENT FURNISHED OR THE TRADES WORKING IN THE SAME AREA. NO ADDITIONS TO THE CONTRACT SUM WILL BE PERMITTED FOR ITEMS INSTALLED IN WRONG LOCATIONS, IN CONFLICT WITH OTHER WORK, ETC.
 8. ALL CUTTING AND PATCHING (TO ORIGINAL STATE) OF BUILDING MATERIALS AS REQUIRED FOR INSTALLATION OF A COMPLETE WORKABLE SYSTEM. CONTRACTOR SHALL FURNISH AND INSTALL ALL SLEEVES THRU WALLS AND CORING THRU FLOORS.
 9. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE TEMPERATURE CONTROL SYSTEM AS REQUIRED.
 10. ALL THERMOSTATS & SENSOR SHALL BE MOUNTED AT +46" ABOVE FINISHED FLOOR (UNLESS OTHERWISE SPECIFIED). THERMOSTATS SHALL NOT INTERFERE WITH SHELVING, VENDING MACHINES, OTHER FIXTURES OR CONTROLS.
 11. UPON COMPLETION OF THE WORK, CONTRACTOR SHALL REVIEW AND CHECK THE ENTIRE PORTION OF WORK, CLEAN EQUIPMENT AND DEVICES, REMOVE SURPLUS MATERIALS AND RUBBISH FROM THE PROPERTY AND LEAVE THE WORK IN NEAT AND CLEAN ORDER AND IN COMPLETE WORKING CONDITION. EACH RESPECTIVE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY CARTONS, DEBRIS, EQUIPMENT, ETC., INSTALLED BY THIS CONTRACTOR INCLUDING EQUIPMENT FURNISHED BY OTHERS AND UNCRATED OR REMOVED FROM CARTONS BY THIS CONTRACTOR.
 12. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE PURCHASE, DELIVERY, RECEIVING, UNLOADING, UNCRATING, STORING, SETTING IN PLACE, AND PROTECTING OF ALL NEW EQUIPMENT FURNISHED BY THIS CONTRACTOR AND EQUIPMENT FURNISHED BY OWNER AND INSTALLED BY THIS CONTRACTOR FROM DAMAGE BY VANDALISM AND WEATHER DURING CONSTRUCTION.
 13. THE "AS-BUILT" PRINTS SHALL BE AVAILABLE FOR INSPECTION, BY THE ENGINEER, DURING THE PERIOD OF CONSTRUCTION.
 14. THE GENERAL CONTRACTOR SHALL HIRE AN INDEPENDENT CONTRACTOR FOR TESTING, ADJUSTING AND BALANCING OF AIR, HYDRONIC, STEAM AND REFRIGERATION SYSTEM. SUBMIT NAME AND QUALIFICATION OF THE TAB AGENCY WITHIN 30 DAYS OF AWARDED THE CONTRACT TO THE ARCHITECT/ENGINEER OF RECORD. THE FINAL REPORT SHALL INCLUDE DEFICIENCIES IN THE SYSTEMS, REVISE TAB PLAN, EQUIPMENT MANUFACTURER, DATE OF CALIBRATION, MODEL & SERIAL NUMBER. SUBMIT THE REPORT FOR REVIEW PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

EXECUTION

- DUCTWORK:**
1. THE CONTRACTOR SHALL CONSTRUCT DUCTWORK OF GALVANIZED SHEET METAL IN ACCORDANCE TO S.M.A.C.N.A. STANDARDS FOR LOW AND MEDIUM PRESSURE DUCT CONSTRUCTION. DUCTWORK SHALL COMPLY WITH ALL STATE AND LOCAL REGULATIONS REGARDING FIRE STOPPING, PROOFING AND DAMPERING.
 2. LONGITUDINAL CORNER SEAMS SHALL BE PITTSBURGH SEAM, DOUBLE SEAM OR SNAP LOCK. ALL DUCT PANELS SHALL BE CROSS-BROKEN. ALTERNATIVELY, DUCT SECTIONS MAY BE CRIMPED TRANSVERSELY 10" ON CENTERS WITH THE CRIMP TO THE OUTSIDE.
 3. WHERE DUCTWORK IS SHOWN TO BE INSULATED INTERNALLY, THE DUCT SIZE SHALL BE INCREASED SO THAT THE SIZES SHOWN ON THE DRAWINGS ARE THE CLEAR INSIDE DIMENSION.
 4. WHERE A DUCT CONTAINS A FIRE DAMPER, THE DUCT SHALL BE ENLARGED TO ACCOMMODATE THE DAMPER FRAME, SO AS NOT TO REDUCE THE DUCT FREE AREA.
 5. DUCTWORK SHALL BE SUPPORTED FROM THE STRUCTURE. SUPPORT STRAPS SHALL COMPLETELY ENIRCLE THE DUCT AND BE SECURED TO THE STRUCTURE IN AN APPROVED MANNER.
 6. ALL JOINTS SHALL BE SEALED AIRTIGHT WITH UNITED DUCT SEALER OR DURO DYNE S-3 DUCT SEALER. LIBERALLY BUTTER THE CONTACT SURFACES WITH SEALING COMPOUND BEFORE MAKING THE JOINT. SEALING COMPOUND SHALL BE APPLIED TO THE INSIDE OF THE SUPPLY DUCT SEAMS AND JOINTS, AND TO THE OUTSIDE OF THE EXHAUST DUCT SEAMS AND JOINTS. JOINTS SHALL BE TESTED AS DIRECTED BY THE CONSULTANT. LEAKING JOINT SHALL BE REMADE.
 7. THE INSIDE RADIUS OF ANY DUCT BEND SHALL BE AT LEAST HALF THE DUCT WIDTH (MEASURED TO THE DIRECTION OF THE RADIUS) WHENEVER POSSIBLE. OTHERWISE SQUARE ELBOWS FITTED WITH MULTI-BLADE TURNING VANES SHALL BE USED. TURNING VANES SHALL BE BARBER COLEMAN AIRTURNS.
 8. DUCT NECKS SHALL BE INSTALLED BEFORE REGISTERS AND DIFFUSERS TO PREVENT THE VOLUME CONTROL DAMPERS FROM PROJECTING INTO THE TRUNK DUCTS. AIR TURNING DEVICES SHALL BE INSTALLED IN TAKE-OFFS WHICH CANNOT BE MADE WITH FULL RADIUS FITTINGS, AND ALSO WHERE INDICATED. AIR TURNING DEVICES SHALL BE ADJUSTABLE WITH THE OPERATING MECHANISM EXTENDED TO THE OUTSIDE OF THE DUCT.
 9. THE INCLUDED ANGLE BETWEEN ANY TWO OPPOSITE FACES OF DUCT SHALL NOT EXCEED 30 DEGREES UNLESS SPECIFICALLY SHOWN OTHERWISE.
 10. DUCTS SHALL BE INSTALLED SO AS TO MAINTAIN A MINIMUM CLEARANCE OF 1/2" AROUND THE PERIMETER, I.E. A 1/2" CLEARANCE BETWEEN A DUCT AND AN ADJACENT DUCT, OR BETWEEN A DUCT AND AN ADJACENT PIPE, OR BETWEEN A DUCT AND THE BUILDING STRUCTURE. IF A DUCT IS INSULATED THE 1/2" CLEARANCE SHALL EXTEND BEYOND THE PERIMETER OF THE DUCT INSULATION.
 11. ALL BRANCHES FROM THE MAIN LOW PRESSURE TRUNK SHALL BE FURNISHED AND INSTALLED WITH A SPLITTER DAMPER OR SIMILAR BALANCING DEVICE IN GENERAL ACCORDANCE WITH THE STANDARDS OF THE ASSOCIATED AIR BALANCE COUNCIL.
 12. INSTALL FLEXIBLE CANVAS CONNECTION BETWEEN MECHANICAL EQUIPMENT AND SHEET METAL DUCTWORK. CANVAS NOT TO EXCEED 10' IN LENGTH.
 13. ALL DUCTWORK ACCESS DOORS SHALL BE OF SUFFICIENT SIZE TO PERMIT EASY ACCESS AND THE SERVICING OF DAMPERS, CONTROLS, DEVICES, ETC. ACCESS DOORS SHALL BE VENTLOK COMPLETE WITH #50 HINGES WITH BRASS PINS, #100 LATCHES, DOOR GASKETS, ETC. DOORS LOCATED IN INSULATED DUCTWORK SHALL HAVE 1/2" THICK FIBERGLASS INSULATION BETWEEN TWO THICKNESS OF SHEET METAL.
 14. FLEXIBLE DUCTWORK SHALL BE THERMAFLEX TYPE S-LP-10. LENGTHS SHALL NOT EXCEED 5'-0". FLEXIBLE DUCTWORK SHALL MEET THE REQUIREMENTS OF UL 181 AND NFPA 90A, AND BE SUITABLE FOR DUCT STATIC PRESSURE OF A MINIMUM OF +10" W.G. DUCT SIZES SHOWN ON DRAWINGS FOR FLEXIBLE DUCTWORK ARE INSIDE DIMENSIONS.
 15. THE DRAWINGS DO NOT ATTEMPT TO SHOW ALL OFFSETS IN DUCTWORK. THE CONTRACTOR SHALL MAKE SUCH OFFSETS IN DUCTS AS NECESSARY FOR THE INSTALLATION OF THE WORK WITHOUT ADDITIONAL COST TO THE OWNER. WHERE SUCH OFFSETS ARE REQUIRED, THE ANGLE OF THE OFFSET SHALL BE AS SMALL AS POSSIBLE.
- DUCT INSULATION:**
1. ALL SUPPLY AND RETURN DUCTWORK FROM HEATING/COOLING UNITS SHALL BE WRAPPED WITH 1 LB/FT DENSITY, 1-1/2" THICK FIBERGLASS DUCT INSULATION. WITH A "K" FACTOR OF 0.21 OR LESS. INSULATION SHALL BE PROVIDED WITH A FOIL-KRAFT VAPOR JACKET, AND BE CHEMICALLY TREATED FOR FLAME SAFETY.
 2. ALL EXHAUST DUCTWORK ON THE SUCTION SIDE OF EXHAUST FANS SHALL BE LINED WITH 1-1/2 LB DENSITY, 1/2" THICK FIBERGLASS DUCT LINER, FOR A MINIMUM DISTANCE OF 10'-0".
 3. ALL KITCHEN EXHAUST DUCTWORK TO BE INSULATED WITH JOHN MANVILLE FIRE MASTER WRAP.
 4. INSTALL INSULATION PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT INSULATION SERVES ITS INTENDED PURPOSE.
 5. CLEAN AND DRY DUCTWORK PRIOR TO INSULATING. BUTT INSULATION JOINTS FIRMLY TOGETHER TO ENSURE COMPLETE AND TIGHT FIT OVER SURFACES TO BE COVERED.
 5. MAINTAIN INTEGRITY OF VAPOR-BARRIER ON DUCTWORK INSULATION, AND PROTECT IT TO PREVENT PUNCTURE AND OTHER DAMAGE.
 7. RIGID INSULATION: USE VAPOR BARRIER SEALER ON ALL SURFACES OF BUTT JOINT AND END JOINT LAPS AND STAPLE LAPS PERMANENTLY IN PLACE WITH OUTWARD FLARE TYPE STAPLES APPROXIMATELY 4" O.C. THEN BRUSH COAT OF SEALER OVER ALL STAPLES. VAPOR BARRIER SEALER NOT NECESSARY ON HOT PIPING. WHEN USING A SELF SEALING LAP MATERIAL THE USE OF APPROXIMATELY 3 STAPLES PER SECTION IS SUFFICIENT TO ACCOMPLISH THIS PURPOSE.
 8. EXTEND DUCTWORK INSULATION WITHOUT INTERRUPTION THROUGH WALLS, FLOORS AND SIMILAR DUCTWORK PENETRATIONS, EXCEPT WHERE OTHERWISE INDICATED.
 9. LINED DUCTWORK, UNLESS NOTED OTHERWISE, OMIT INSULATION ON DUCTWORK WHERE INTERNAL INSULATION OR SOUND ABSORBING LININGS HAVE BEEN INSTALLED.
 10. DUCTWORK EXPOSED TO WEATHER. PROTECT OUTDOOR INSULATION FROM WEATHER BY INSTALLING OUTDOOR PROTECTIVE FINISH OR JACKETING AS RECOMMENDED BY MANUFACTURER.
- SEQUENCE OF OPERATIONS:**
- GENERAL:
1. PROVIDE ALL SENSORS, WIRING, INTERLOCKS AND COMPLETE ADJUSTMENT OF SEQUENCES OF OPERATION FOR ALL CONNECTED MECHANICAL EQUIPMENT TO SATISFY THE FOLLOWING SEQUENCES OF OPERATION.
 2. ADJUST ALL VARIABLES TO SUIT THE PARTICULAR INSTALLATION USING ON-LINE TESTS.
 3. ENSURE THAT THERE IS NO CONFLICT BETWEEN THE CONTROLS FOR EACH SYSTEM, AND THAT ALL SYSTEMS FUNCTION SMOOTHLY AND WITHOUT HUNTING OR EXTREME TEMPERATURE, AIR FLOW OR PRESSURE EXCURSIONS.
 4. CALIBRATE AND/OR PROGRAM EACH PROGRAMMABLE THERMOSTAT IMMEDIATELY FOLLOWING INSTALLATIONS. SETUP AND TUNE ALL CONTROL DEVICES DURING THE INITIAL START-UP OF THE SYSTEMS.
 5. AT THE TIME OF THE OWNER'S DEMONSTRATION AND INSTRUCTION PERIOD: SUBMIT A REPORT OF ALL SETTINGS AND SEQUENCES.
- DESIGN CRITERIA:**
BASED ON:
IMC VENTILATION SCHEDULE 2015
ASHRAE HANDBOOK - 2018 FUNDAMENTALS
CITY OF JOILLET, ILLINOIS AMENDMENTS
- | | | |
|---------------|---------|---------|
| SETTINGS: | HEATING | COOLING |
| OCCUPIED | 70°F | 75°F |
| UNOCCUPIED | 60°F | 85°F |
| OUTDOOR TEMP. | -10°F | 95°F |
- INDOOR TEMPERATURE CAN BE ADJUSTED PER OWNER'S REQUIREMENTS.
- (RTU-1 & 2):
UNITS ARE CONTROLLED BY CARRIER PROGRAMMABLE THERMOSTATS 33CS250-01 WITH ONE (1) REMOTE RETURN AIR SENSORS AS SHOWN ON DRAWING M1.0. FANS SHALL OPERATE CONTINUOUSLY DURING THE OCCUPIED MODE YEAR AROUND, WITH TEMPERATURE SET POINTS AS DETERMINED BY THE CLIENT. WHEN OUTDOOR AIR TEMPERATURE IS 55 DEG. F OR BELOW AND UNIT CALLS FOR COOLING, OUTDOOR AIR DAMPERS WILL MODULATE OPEN TO PROVIDE COOLING FOR SPACE. ECONOMIZER SHALL HAVE ENTHALPHY CONTROLLER TO PREVENT MOISTURE LADEN AIR FROM BEING USED TO COOL SPACE. AS TEMPERATURE BEGINS TO RISE, DAMPERS WILL BEGIN TO MODULATE CLOSED UNTIL MINIMUM SETTING.
UNIT SHALL BE PROVIDED WITH A MODULATING CENTRIFUGAL POWER EXHAUST FAN, CONTROLLED BY A SPACE STATIC PRESSURE SENSOR. TO MAINTAIN SPACE STATIC PRESSURE AT 0.08" WG.

MECHANICAL SYMBOL LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A.F.F.	ABOVE FINISHED FLOOR	—	SUPPLY DUCT
V.I.F.	VERIFY IN FIELD	—	RETURN DUCT
N.I.C.	NOT IN CONTRACT	—	EXHAUST DUCT
GPM	GALLON PER MINUTE	— G —	GAS PIPING
CFM	CUBIC FEET OF AIR PER MINUTE	— L —	LIQUID LINE
SA	SUPPLY AIR	— S —	SUCTION LINE
RA	RETURN AIR	— CD —	CONDENSATE DRAIN
OAI	OUTSIDE AIR INTAKE	— HWS —	HOT WATER SUPPLY
EXH	EXHAUST	— HWR —	HOT WATER RETURN
DIFF	DIFFUSER	— CHWS —	CHILLED WATER SUPPLY
GR	GRILLE	— CHWR —	CHILLED WATER RETURN
REG	REGISTER	— R —	REDUCER
AP	ACCESS PANEL	— F —	FLEXIBLE DUCT
BI	BLACK IRON	— V —	MANUAL VOLUME DAMPER
MC	MECHANICAL CONTRACTOR	— D —	FIRE DAMPER
(T/J)	THROUGH JOIST	— J —	GAP
(UJ)	UNDER JOIST	— F —	SUPPLY DUCT THRU FLOOR/ ROOF
(BJ)	BETWEEN JOIST	— R —	RETURN DUCT THRU FLOOR/ ROOF
⊙	POINT OF CONNECTION	⊙	THERMOSTAT
▶	DIRECTION OF FLOW	⊙	SENSOR
U-CUT	1" UNDER DOOR CUT	⊙	HUMIDISTAT
⊙	RISER DOWN (ELBOW)	⊙	SMOKE DETECTOR
⊙	RISER UP (ELBOW)	⊙	CARBON MONOXIDE DETECTOR
⊙	BALL VALVE	⊙	EQUIPMENT TAG
⊙	CHECK VALVE	⊙	GAS PRESSURE REGULATOR
⊙	GATE VALVE		
⊙	UNION		
FBO	FURNISHED BY OTHERS, INSTALLED BY MC	⊙	TAG = SIZE - CFM

DISREGARD ANY SYMBOL OR ABBREVIATION THAT IS NOT APPLICABLE TO THIS PROJECT

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MECHANICAL GENERAL NOTES & SYMBOL LIST

STATES ATTORNEY OFFICE REMODELING
WILL COUNTY STATE'S ATTORNEY
WILL COUNTY COURT ANNEX - LEVEL 2
57 N. OTTAWA STREET
JOLIET, ILLINOIS

DATE: 04-28-25
REVISED:

PROJECT NO. 2411-01

SHEET NUMBER

M0.1

1 OF 7 SHEETS



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HEATING EQUIPMENT SCHEDULE															
TAG	DESCRIPTION	CAPACITY / ELECTRICAL DATA					MOTOR DATA			AIR FLOW CFM		TEMP. RISE F	UNIT WEIGHT (LBS)	MANU. & MODEL	REMARK
		BTUH	KW	V	PH	AMP	RPM	V	P	HIGH	LOW				
BB-1	BASEBOARD HEATER	3413	1.0	120	1	8.3							31	MARKEL, SERIES 3700	1,2,3,4

- UL LISTED, TAMPER - PROOF INTEGRAL THERMOSTAT, NON-GLOWING ELEMENTS, DISCONNECT SWITCH.
- HEAVY DUTY STEEL LOUVERED GRILLES.
- CORROSION RESISTANT ALUMINUM FINNS.
- BUILT-IN CUT-OFF.

2015 INTERNATIONAL MECHANICAL CODE VENTILATION SCHEDULE																				
ROOM NO.	ROOM NAME	OCCUPANCY CLASSIFICATION	AREA FT^2	NO. OF PEOPLE	IMC 2015 TABLE				IMC 2015 REQUIREMENTS				ACTUAL			EQUIPMENT		REMARKS		
					OCCUPANT DENSITY (#/1000 FT^2)	PEOPLE O/A (CFM/PERSON)	AREA O/A (CFM/FT^2)	EXHAUST (CFM/FT^2)	TOTAL OCCUPANTS	OCCUPANTS O/A CFM	AREA O/A CFM	TOTAL O/A CFM	TOTAL E/A CFM	S/A CFM	O/A CFM	E/A CFM	SUPPLY		EXHAUST	
200	ELEVATOR LOBBY	CORRIDOR	250		0	0	0.06	0	0	0	15	15		85	17		EX. VAV-C			
201	HALLWAY	CORRIDOR	265		0	0	0.06	0	0	0	16	16		200	40		EX. VAV-H			
202	OFFICE	OFFICE SPACE	155		5	5	0.06	0	1	4	9	13		150	30		EX. VAV-H			
203	OFFICE	OFFICE SPACE	155		5	5	0.06	0	1	4	9	13		150	30		EX. VAV-H			
204	OFFICE	OFFICE SPACE	155		5	5	0.06	0	1	4	9	13		150	30		EX. VAV-H			
205	OFFICE	OFFICE SPACE	185		5	5	0.06	0	1	5	11	16		225	45		EX. VAV-H			
206	OFFICE	OFFICE SPACE	180		5	5	0.06	0	1	5	11	15		225	45		EX. VAV-H			
207	OFFICE	OFFICE SPACE	150		5	5	0.06	0	1	4	9	13		225	45		EX. VAV-H			
210	EXISTING CORRIDOR	CORRIDOR	615		0	0	0.06	0	0	0	37	37		320	64		EX. VAV-C			
211	CONFERENCE ROOM	CONFERENCE ROOM	315		50	5	0.06	0	16	79	19	98		525	105		VAV-1			
211B	TOILET	TOILET	45		0	0	0	50/70	0	0	0	0	70			100		EX. EF		
212	OPEN OFFICE	OFFICE SPACE	410		5	5	0.06	0	2	10	25	35		525	105		VAV-1			
213	TOILET	TOILET	50		0	0	0	50/70	0	0	0	0	70			100		EX. EF		
214	OFFICE	OFFICE SPACE	250		5	5	0.06	0	1	6	15	21		370	74		EX. VAV-C			
215	OFFICE	OFFICE SPACE	300		5	5	0.06	0	2	8	18	26		370	74		EX. VAV-C			
215B	TOILET	TOILET	45		0	0	0	50/70	0	0	0	0	70			100		EX. EF		
216	OPEN OFFICE	OFFICE SPACE	530		5	5	0.06	0	3	13	32	45		675	135		EX. VAV-H			
217	OFFICE	OFFICE SPACE	140		5	5	0.06	0	1	4	8	12		225	45		EX. VAV-H			
218	OFFICE	OFFICE SPACE	160		5	5	0.06	0	1	4	10	14		225	45		EX. VAV-H			
219	OFFICE	OFFICE SPACE	190		5	5	0.06	0	1	5	11	16		250	50		EX. VAV-H			
220	OFFICE	OFFICE SPACE	205		5	5	0.06	0	1	5	12	17		225	45		EX. VAV-H			
230	OPEN OFFICE	OFFICE SPACE	690		5	5	0.06	0	3	17	41	59		800	160		EX. VAV-H			
231	STORAGE	STORAGE INACTIVE	115		0	0	0	0	0	0	0	0		50	10		EX. VAV-H			
232	OFFICE	OFFICE SPACE	245		5	5	0.06	0	1	6	15	21		225	45		EX. VAV-E			
233	OFFICE	OFFICE SPACE	160		5	5	0.06	0	1	4	10	14		200	40		EX. VAV-H			
234	OFFICE	OFFICE SPACE	165		5	5	0.06	0	1	4	10	14		200	40		EX. VAV-H			
235	HALLWAY	CORRIDOR	115		0	0	0.06	0	0	0	7	7		100	20		EX. VAV-E			
236	OFFICE	OFFICE SPACE	195		5	5	0.06	0	1	5	12	17		300	60		EX. VAV-E			
237	OFFICE	OFFICE SPACE	160		5	5	0.06	0	1	4	10	14		250	50		EX. VAV-E			
238	OFFICE	OFFICE SPACE	105		5	5	0.06	0	1	3	6	9		100	20		EX. VAV-H			
239	OFFICE	OFFICE SPACE	105		5	5	0.06	0	1	3	6	9		100	20		EX. VAV-H			
241	EXISTING OFFICE	OFFICE SPACE	185		5	5	0.06	0	1	5	11	16		225	45		EX. VAV-E			
TOTAL			6990	0					42	208	250	612	210	7670	1534	300				

EXISTING AIR HANDLER UNIT SCHEDULE																			
TAG	LOCATION/ SERVES	COOLING OPERATION			HEATING OPERATION				CFM			ESP (wc)	ELECTRICAL DATA			ROOF CURB DIM. (in)	WT. (lb)	MANUF. & MODEL	REMARKS
		TON	MBH	STAGE	HEAT TYPE	INPUT MBH	OUTPUT MBH	STAGE	S/A	R/A	O/A		V/HZ/PH	MCA	MOCP				
EX. AHU2-1	1	13	156	1	ELEC	30	30	-	5000	5000	1170	-	-	-	-	-	-	40RM014	1, 2, 3
EX. AHU2-2	1	13	156	2	ELEC	30	30	-	5000	5000	1155	-	-	-	-	-	-	40RM014	1, 2, 3

- MECHANICAL CONTRACTOR SHALL SERVICE EXISTING UNIT AND VERIFY THAT UNIT IS IN GOOD WORKING CONDITION. CONTRACTOR SHALL MAKE REQUIREMENT TO COMPLY WITH MINIMUM DESIGN CFM AS SHOWN IN THIS SCHEDULE.
- REPLACE THE AIR FILTERS AT END OF CONSTRUCTION AND PROVIDE STANDARD FILTERS WITH 2 EXTRA SETS TO BE TURNED OVER TO OWNER DURING STARTUP.
- VERIFY THAT THE UNIT IS EQUIPPED WITH ECONOMIZER AND/OR POWER EXHAUST AND THEY SHOULD BE IN GOOD WORKING ORDER.

VARIABLE AIR VALUME BOX SCHEDULE															
TAG	SERVES - LOCATION	CFM			EAT F	KW ΔT	LAT F	ELECTRIC COIL			INLET SIZE	WT. (lb)	MANUF. & MODEL	REMARKS	
		DESIGN	MAX	MIN				KW	V	PH					
VAV-C	EX. AHU SEE PLAN	1	500	350	55	0	55.0				-	-	TITUS PESV-7	1,2,3	
VAV-E	EX. AHU SEE PLAN	1	900	650	55	0	55.0				-	-	TITUS PESV-9	1,2,3	
VAV-H	EX. AHU SEE PLAN	1	1050	900	55	0	55.0				-	-	TITUS PESV-14	1,2,3	

- CONTRACTOR SHALL SERVICE EXISTING UNIT AND VERIFY THAT UNIT IS IN GOOD WORKING CONDITION. REPORT ANY DEFICIENCY/ISSUES TO THE OWNER REPRESENTATIVE FOR FURTHER ACTION.
- CONTRACTOR SHALL MAKE REQUIREMENT TO COMPLY WITH MINIMUM DESIGN AS SHOWN IN THIS SCHEDULE.
- REPLACE THE AIR FILTERS AT END OF CONSTRUCTION AND PROVIDE STANDARD FILTERS WITH 2 EXTRA SETS TO BE TURNED OVER TO OWNER DURING STARTUP.

VARIABLE AIR VALUME BOX SCHEDULE					
TAG	CFM RANGE	INLET SIZE	OUTLET SIZE	MANUF. & MODEL	REMARKS
VAV-1	1050 - 1400	12"Ø	16x16	TITUS PESV-12	1 - 9

- UNIT COMPLETE WITH FACTORY MOUNT DAMPER ACTUATOR, DIRECT DIGITAL CONTROLLER AND FLOW SENSORS.
- UNIT SHALL BE PRESSURE INDEPENDENT TYPE, NORMALLY OPEN, DIRECT ACTING.
- UNIT COMPLETE WITH 4 PCF INSULATION AND NON-POROUS SEALED LINER COMPLYING WITH UL 181 AND NFPA 90A, CAM-LOCK ACCESS DOOR GASKETED AND INSULATED, ARI 880 CERTIFICATION.
- AIRFLOW SWITCH, CONTROL TERMINAL BLOCK, INTERNAL SOUND ATTENUATOR, (CONSTRUCTED OF 20 GA. GALVANIZED STEEL CASING FLANGED, HEAVY ALUMINUM FINNS, COPPER TUBES MINIMUM 0.016" WALL THICKNESS).
- ALL VAV BOXES WITH MORE THAN 1000 DESIGN CFM SHALL BE SUPPLIED WITH SOUND ATTENUATORS.
- 120V, 15 AMP PER 6 BOXES.
- MAXIMUM WPD=5".
- MAXIMUM APD=0.25".
- EQUAL MANUFACTURER: PRICE ADV AND CARNES AVCC.

GRILLE, DIFFUSER AND REGISTER SCHEDULE							
TAG	FACE SIZE	MATERIAL	TYPE	MAX N.C.	MANUF.	MODEL	REMARKS
R1	VARIABLES	ALUM.	35° DEFLECTION	30	TITUS	350RL	1,2,3,4,5
E1	VARIABLES	ALUM.	EGG CRATE 1/2" x 1/2" x 1" GRID	30	TITUS	50F	1,2,3,4,5
S1	VARIABLES	ALUM.	SINGLE DEFLECTION REGISTER	30	TITUS	301RL	1,2,3,4,5
S2	24x24	ALUM.	ARCHITECTURAL SQUARE PLAQUE	30	TITUS	TMS	1,2,3,4
S3	4' x 4' SLOT	STEEL	LINEAR SLOT	30	TITUS	38ML	1,2,3,4,7

- EQUAL MANUFACTURERS: PRICE, KRUEGER.
- VERIFY FINISH AND COLOR WITH ARCHITECT.
- COORDINATE MOUNTING FRAME TYPE FOR CEILING/WALL/DOOR.
- PROVIDE WITH OPPOSED BLADE DAMPER IF MANUAL DAMPER NOT SHOWN IN PLAN.
- PROVIDE INSULATED NECK SIZED PLENUM CONNECTED TO GRILLE IN CEILING APPLICATION.
- PROVIDE SQUARE TO ROUND ADAPTOR WHEN NECESSARY.
- PROVIDE AIR PLENUM.

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MECHANICAL SCHEDULES

STATES ATTORNEY OFFICE REMODELING
 WILL COUNTY STATE'S ATTORNEY
 WILL COUNTY COURT ANNEX - LEVEL 2
 57 N. OTTAWA STREET
 JOLIET, ILLINOIS

DATE: 04-28-25
REVISED:

PROJECT NO. 2411-01

SHEET NUMBER

M0.2

2 OF 7 SHEETS

- PLAN NOTES**
- EXISTING MECHANICAL EQUIPMENT, DUCTWORK, DIFFUSER, PIPING OR THERMOSTAT TO REMAIN.
 - EXISTING AHU TO REMAIN. REFER TO EXISTING AHU SCHEDULE DRAWING M0.2 FOR MORE INFORMATION.
 - EXISTING EXHAUST FAN TO REMAIN. REFER TO EXISTING EXHAUST FAN SCHEDULE DRAWING M0.2 FOR MORE INFORMATION.
 - EXISTING VAV BOX TO REMAIN. REFER TO EXISTING VAV BOX SCHEDULE DRAWING M0.2 FOR MORE INFORMATION.
 - SALVAGE EXISTING THERMOSTAT TO BE RELOCATED. REFER TO NEW PLAN FOR NEW LOCATION.
 - SALVAGE EXISTING BASEBOARD TO BE RELOCATED. REFER TO NEW PLAN FOR NEW LOCATION.
 - REMOVE ALL EXISTING DUCTWORK, HANGERS, INSULATION, ETC. AS INDICATED.
 - SALVAGE EXISTING DIFFUSER/GRILLE TO BE INSTALLED IN NEW CEILING. REFER TO NEW PLAN FOR MORE WORK (TYP. OF ALL).
 - THE CFM SHOWN BY THE EXISTING DIFFUSER ARE TAKEN FROM EXISTING DRAWINGS AND IT IS FOR REFERENCE ONLY (TYP. OF ALL).

- EXTRA SCOPE NOTES**
- REMOVE AND REPLACE ALL THE EXISTING BRANCH FLEXIBLE DUCTS. MATCH THE EXISTING SIZE.
 - CONTRACTOR SHALL INSPECT ALL THE EXISTING DUCTWORKS AND FIX ANY LEAKAGE, SAGGED DUCTS AND DAMAGED INSULATION.
 - CEILING TILES: CONTRACTOR SHALL REMOVE AND REINSTALL ALL CEILING TILES TO ALLOW THIS RENOVATION. VERIFY THE DAMAGED CEILING TILES PRIOR TO COMMENCING THE JOB AND NOTIFY THE OWNER REPRESENTATIVE. COORDINATE THE LOCATION FOR STORING THE EXISTING CEILING TILES WITH GENERAL CONTRACTOR.
 - DIFFUSERS AND REGISTERS: SALVAGE ALL THE DIFFUSERS TO BE REUSED. ALLOW EXTRA (20) SUPPLY DIFFUSERS AND (10) RETURN GRILLES IF NO. OF EXISTING DIFFUSERS/GRILLES ARE LESS THAN REQUIRED. NEW DIFFUSERS/GRILLES SHALL MATCH THE EXISTING. COORDINATE THE LOCATION FOR STORING THE EXISTING DIFFUSERS/GRILLES WITH GENERAL CONTRACTOR.
 - CLEAN/PAINT THE EXISTING DIFFUSER/GRILLE PRIOR TO RE-INSTALLATION.

- GENERAL NOTES**
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. AS CLAIMS FOR EXTRAS DUE TO UNCOVERED SITE CONDITIONS WILL NOT BE ACCEPTED.
 - DRAWINGS SHOW EXISTING CONDITIONS IN DIAGRAMMATIC FORM. EXTENT OF SYSTEMS, SIZES, LOCATIONS AND CONDITIONS ARE TO BE VERIFIED IN THE FIELD.
 - FOR THE PURPOSE OF CLARIFICATION SOME OF THE REQUIRED DEMOLITION WORK HAS BEEN SHOWN ON THIS SHEET. THE WORK SHOWN ON THIS SHEET IS NOT THE ENTIRE EXTENT OF DEMOLITION AND SHOULD BE USED IN CONJUNCTION WITH THE OTHER DRAWINGS AND FIELD VERIFICATION TO DETERMINE THE SCOPE OF DEMOLITION.
 - COORDINATE SHUT-DOWNS OF ANY EXISTING SYSTEMS OR SERVICES REQUIRED FOR THE DEMOLITION OF EXISTING WORK WITH THE OWNER. PROVIDE PRIOR NOTIFICATION OF SUCH SHUT-DOWNS. DO NOT SHUT-DOWN ANY SYSTEM WITHOUT PRIOR AUTHORIZATION FROM THE OWNER.
 - REFER TO ARCHITECTURAL PLANS FOR CEILING AND WALL WORK IN THE AREA OF WORK. THIS CONTRACTOR IS RESPONSIBLE TO REMOVE, RESTORE, CUT, CORE, PATCH, PAINT, ETC. OF ANY CEILING AND WALL WORK THAT NOT SHOWN ON THE ARCHITECTURAL PLAN. THE CONTRACTOR SHALL DOCUMENT ANY DAMAGED CEILING AND WALL PRIOR TO COMMENCING THE WORK.
 - THIS CONTRACTOR SHALL VISIT SITE PRIOR TO START OF THE JOB TO DETERMINE EXACT ROUTING OF DUCT WORK TO MINIMIZE DESTRUCTION OF FINISH AREA.
 - DEAD ENDS SHALL NOT EXCEED 2'-0".

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- EXISTING VAV BOXES NOTE**
- PRE-DEMOLITION TESTING OF VAV BOXES: "THE CONTRACTOR IS REQUIRED TO TEST ALL EXISTING VAV BOXES PRIOR TO DEMOLITION. THIS TESTING MUST VERIFY THAT THE CONDITION AND CFM OUTPUT OF EACH UNIT ARE IN ACCORDANCE WITH THE SPECIFICATIONS OUTLINED IN THE VAV BOX SCHEDULE (M0.2)."
 - REPORTING DISCREPANCIES: "IF ANY VAV BOX'S CONDITION OR CFM OUTPUT DOES NOT ALIGN WITH THE VALUES SHOWN IN THE VAV BOX SCHEDULE (M0.2), THE CONTRACTOR MUST PROMPTLY NOTIFY THE ARCHITECT/ENGINEER OF THESE DISCREPANCIES BEFORE BEGINNING THE DEMOLITION PHASE."
 - REPLACEMENT OF VAV BOXES: "SHOULD ANY VAV BOXES FAIL TO MEET THE REQUIRED CFM OUTPUT AS SPECIFIED IN THE VAV BOX SCHEDULE (M0.2), THEY MAY BE REPLACED WITH NEW UNITS TO ENSURE COMPLIANCE WITH THE PROJECT REQUIREMENTS."

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FLOOR PLAN
 MECHANICAL
 DEMOLITION

STATES ATTORNEY OFFICE REMODELING
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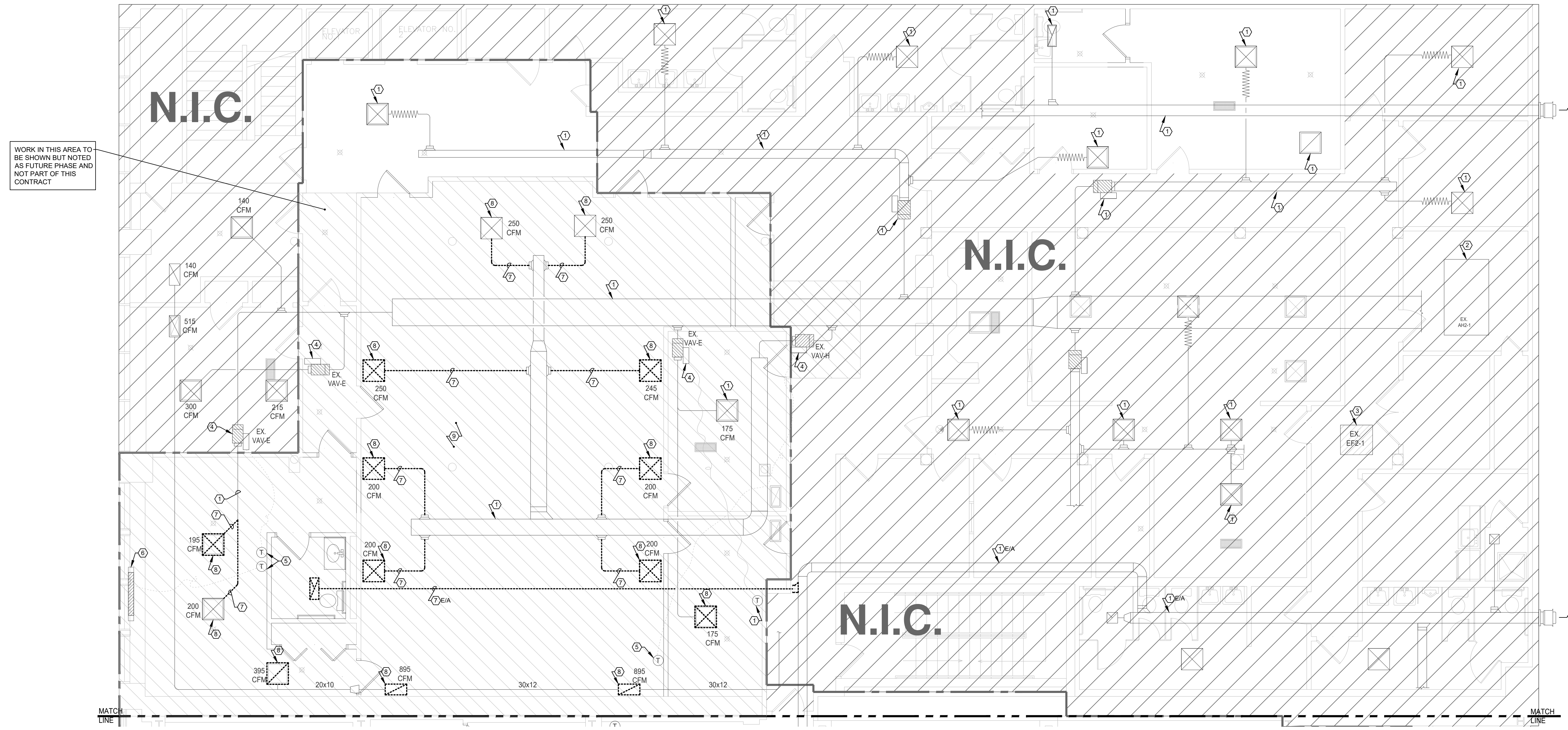
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MD1.1

3 OF 7 SHEETS



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DATE:04-28-25; EXP:11-30-25

- PLAN NOTES**
- EXISTING MECHANICAL EQUIPMENT, DUCTWORK, DIFFUSER, PIPING OR THERMOSTAT IS TO REMAIN.
 - EXISTING AHU TO REMAIN. REFER TO EXISTING AHU SCHEDULE DRAWING M0.2 FOR MORE INFORMATION.
 - EXISTING EXHAUST FAN TO REMAIN. REFER TO EXISTING EXHAUST FAN SCHEDULE DRAWING M0.2 FOR MORE INFORMATION.
 - EXISTING VAV BOX TO REMAIN. REFER TO EXISTING VAV BOX SCHEDULE DRAWING M0.2 FOR MORE INFORMATION.
 - NEW LOCATION OF RELOCATED EXISTING THERMOSTAT AT 4'-6" AFF. THE CONTRACTOR SHALL VERIFY THAT THE UNIT IS IN GOOD WORKING CONDITION. REPAIR OR REPLACE IF REQUIRED.
 - NEW LOCATION OF RELOCATED EXISTING ELECTRIC BASEBOARD. COORDINATE THE REQUIREMENTS WITH ELECTRICAL.
 - TRANSFER (JUMPER) DUCT TO ACCOMMODATE RETURNING AIR. PROVIDE (2)R-1 GRILLES WITH 22/10 SHEET METAL PLENUM. PAINT THE SHEET METAL PLENUM AT GRILLE WITH FLAT BLACK PAINT.
 - REBALANCE THE CFM AS INDICATED. CLEAN/PAINT THE DIFFUSER/GRILLE PRIOR TO INSTALLATION.

- GENERAL NOTES**
- THIS CONTRACTORS TO MAKE ALL REQUIRED PIPE OPENINGS THROUGH EXISTING ROOF, WALLS, AND FLOORS AS REQUIRED FOR WORK INDICATED INCLUDING FIRE STOPPING AND PATCHING TO MATCH EXISTING UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE ARCHITECTURAL DRAWINGS.
 - COORDINATE WITH THE OWNER SHUT-DOWN OF ANY EXISTING SYSTEMS OR SERVICES REQUIRED FOR INSTALLATION OF WORK. DETERMINE ALLOWED SHUT-DOWN PERIODS WITH OWNER. DO NOT SHUT-DOWN ANY SYSTEM WITHOUT PRIOR AUTHORIZATION FROM OWNER.
 - SCHEDULE AND COORDINATE ALL WORK TO MEET THE PROJECT PHASING.
 - COORDINATE ALL WORK WITH THAT OF ALL OTHER TRADES IN ORDER TO AVOID INTERFERENCES.
 - INSTALL ALL WORK TIGHT TO BOTTOM OF EXISTING STRUCTURE.
 - ALL THE DIFFUSER AND GRILLE LOCATIONS SHALL BE CONSIDERED "+/-". COORDINATE THE LOCATION WITH ARCHITECT RELECTED CEILING PLANS.

- RE-BALANCING NOTES**
- THE CONTRACTOR SHALL RE-BALANCE THE DIFFUSERS IN THE AREA OF WORK. HE MAY RE-BALANCE THE OTHER SPACES OUT OF THE AREA OF THE WORK TO ACHIEVE THE NEW CFM IN THE AREA OF THE WORK. VERIFY THE REQUIREMENTS IN FIELD WITH THE OWNER.

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FLOOR PLAN - MECHANICAL PROPOSED

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 WILL COUNTY COURT ANNEX - LEVEL 2
 57 N. OTTAWA STREET
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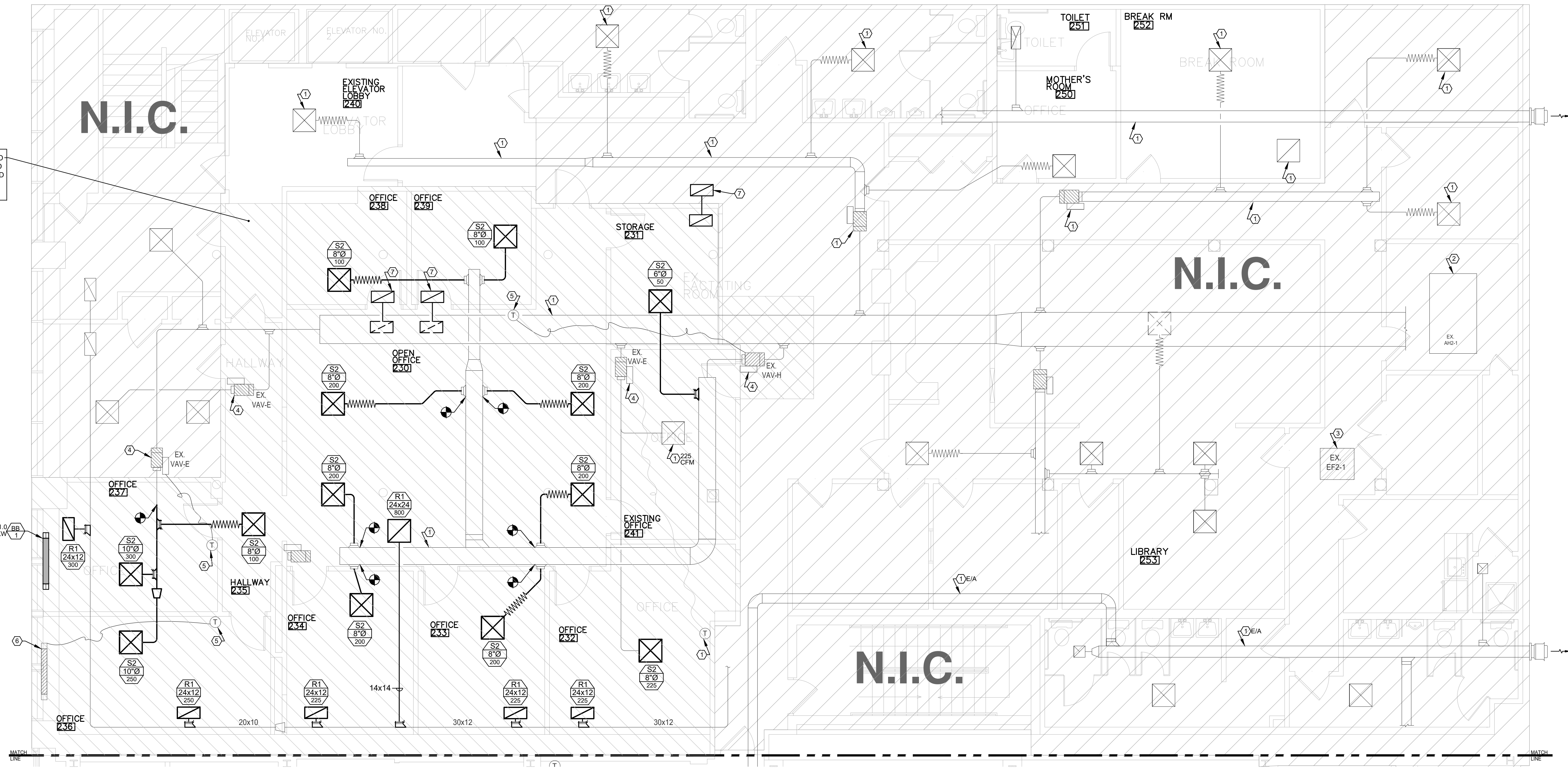
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M1.1

5 OF 7 SHEETS

WORK IN THIS AREA TO BE SHOWN BUT NOTED AS FUTURE PHASE AND NOT PART OF THIS CONTRACT



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1 FLOOR PLAN - MECHANICAL PROPOSED
 3/16" = 1'-0"
 0' 1' 2' 4' 6' 10'



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DATE: 04-28-25; EXP: 11-30-25

stromstand + de young + prybys
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FLOOR PLAN
MECHANICAL
PROPOSED

STATES ATTORNEY OFFICE REMODELING
WILL COUNTY STATE'S ATTORNEY
WILL COUNTY COURT ANNEX - LEVEL 2
57 N. OTTAWA STREET
JOLIET, ILLINOIS

DATE: 04-28-25
REVISED:

PROJECT NO.
2411-01

SHEET NUMBER

M1.2

6 OF 7 SHEETS

PLAN NOTES

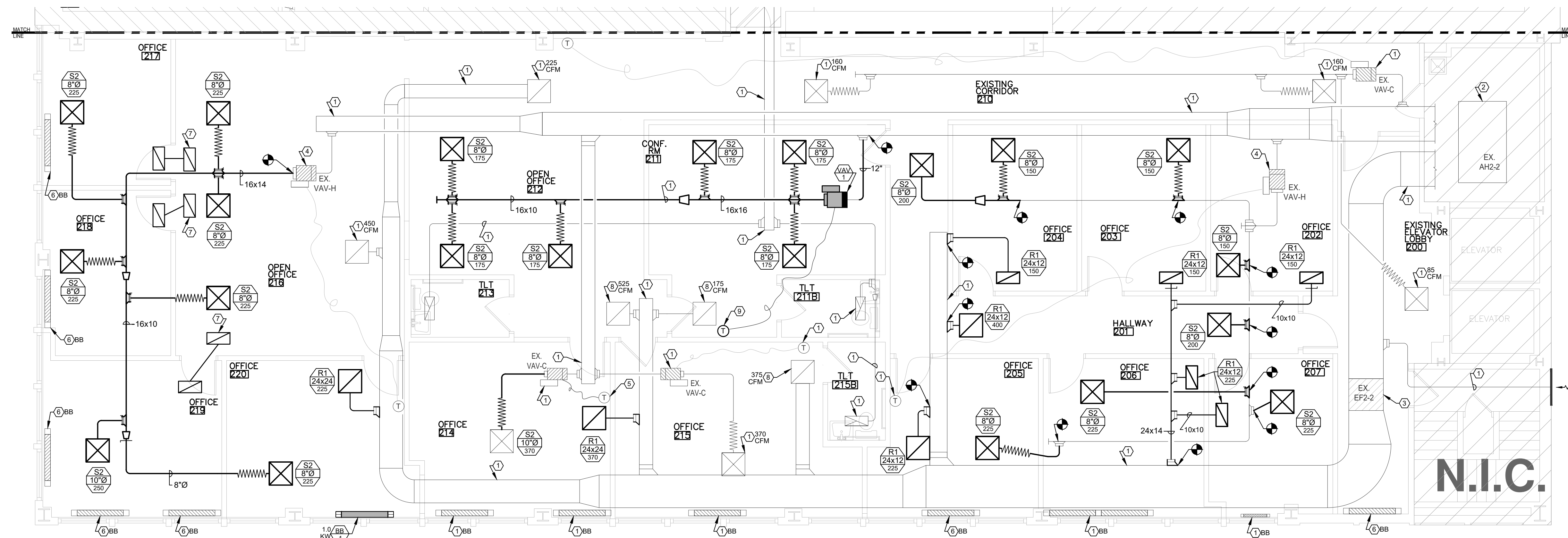
- EXISTING MECHANICAL EQUIPMENT, DUCTWORK, DIFFUSER, PIPING OR THERMOSTAT IS TO REMAIN.
- EXISTING AHU TO REMAIN. REFER TO EXISTING AHU SCHEDULE DRAWING M0.2 FOR MORE INFORMATION.
- EXISTING EXHAUST FAN TO REMAIN. REFER TO EXISTING EXHAUST FAN SCHEDULE DRAWING M0.2 FOR MORE INFORMATION.
- EXISTING VAV BOX TO REMAIN. REFER TO EXISTING VAV BOX SCHEDULE DRAWING M0.2 FOR MORE INFORMATION.
- NEW LOCATION OF RELOCATED EXISTING THERMOSTAT AT 4'-6" AFF. THE CONTRACTOR SHALL VERIFY THAT THE UNIT IS IN GOOD WORKING CONDITION. REPAIR OR REPLACE IF REQUIRED.
- NEW LOCATION OF RELOCATED EXISTING ELECTRIC BASEBOARD. COORDINATE THE REQUIREMENTS WITH ELECTRICAL.
- TRANSFER (JUMPER) DUCT TO ACCOMMODATE RETURNING AIR. PROVIDE (2) R-1 GRILLES WITH 22/10 SHEET METAL PLENUM. PAINT THE SHEET METAL PLENUM AT GRILLE WITH FLAT BLACK PAINT.
- REBALANCE THE CFM AS INDICATED. CLEAN/PAINT THE DIFFUSER/GRILLE PRIOR TO INSTALLATION.
- THERMOSTAT TO BE LOCATED ON INSIDE WALL, 4'-6" A.F.F. AND MIN. 10'-0" FROM ANY SUPPLY AIR OR HEAT GENERATING DEVICE.

GENERAL NOTES

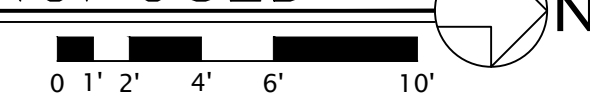
- THIS CONTRACTORS TO MAKE ALL REQUIRED PIPE OPENINGS THROUGH EXISTING ROOF, WALLS, AND FLOORS AS REQUIRED FOR WORK INDICATED INCLUDING FIRE STOPPING AND PATCHING TO MATCH EXISTING UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE ARCHITECTURAL DRAWINGS.
- COORDINATE WITH THE OWNER SHUT-DOWN OF ANY EXISTING SYSTEMS OR SERVICES REQUIRED FOR INSTALLATION OF WORK. DETERMINE ALLOWED SHUT-DOWN PERIODS WITH OWNER. DO NOT SHUT-DOWN ANY SYSTEM WITHOUT PRIOR AUTHORIZATION FROM OWNER.
- SCHEDULE AND COORDINATE ALL WORK TO MEET THE PROJECT PHASING.
- COORDINATE ALL WORK WITH THAT OF ALL OTHER TRADES IN ORDER TO AVOID INTERFERENCES.
- INSTALL ALL WORK TIGHT TO BOTTOM OF EXISTING STRUCTURE.
- ALL THE DIFFUSER AND GRILLE LOCATIONS SHALL BE CONSIDERED "+/-". COORDINATE THE LOCATION WITH ARCHITECT REELECTED CEILING PLANS.

RE-BALANCING NOTES

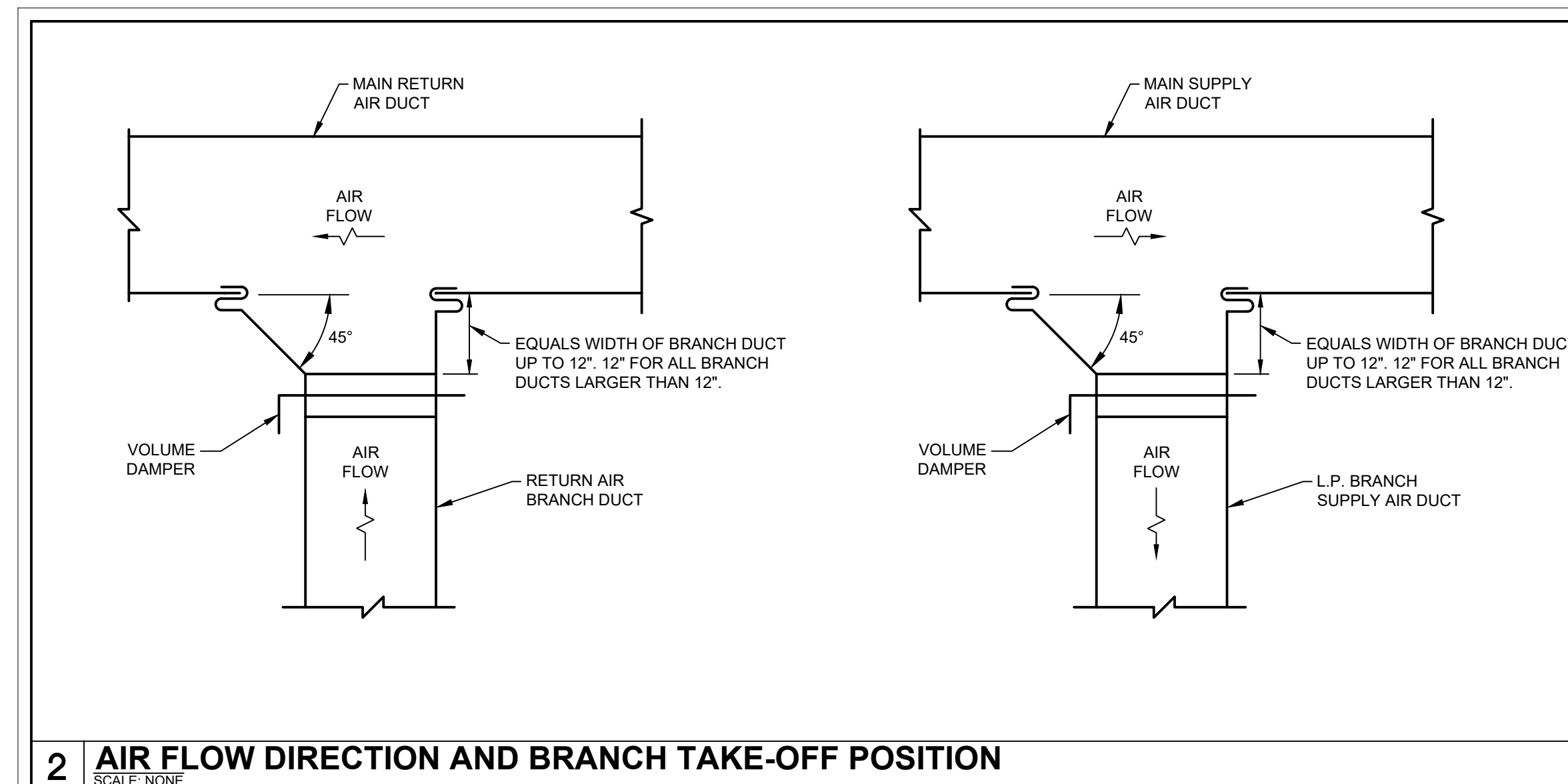
THE CONTRACTOR SHALL RE-BALANCE THE DIFFUSERS IN THE AREA OF WORK. HE MAY RE-BALANCE THE OTHER SPACES OUT OF THE AREA OF THE WORK TO ACHIEVE THE NEW CFM IN THE AREA OF THE WORK. VERIFY THE REQUIREMENTS IN FIELD WITH THE OWNER.



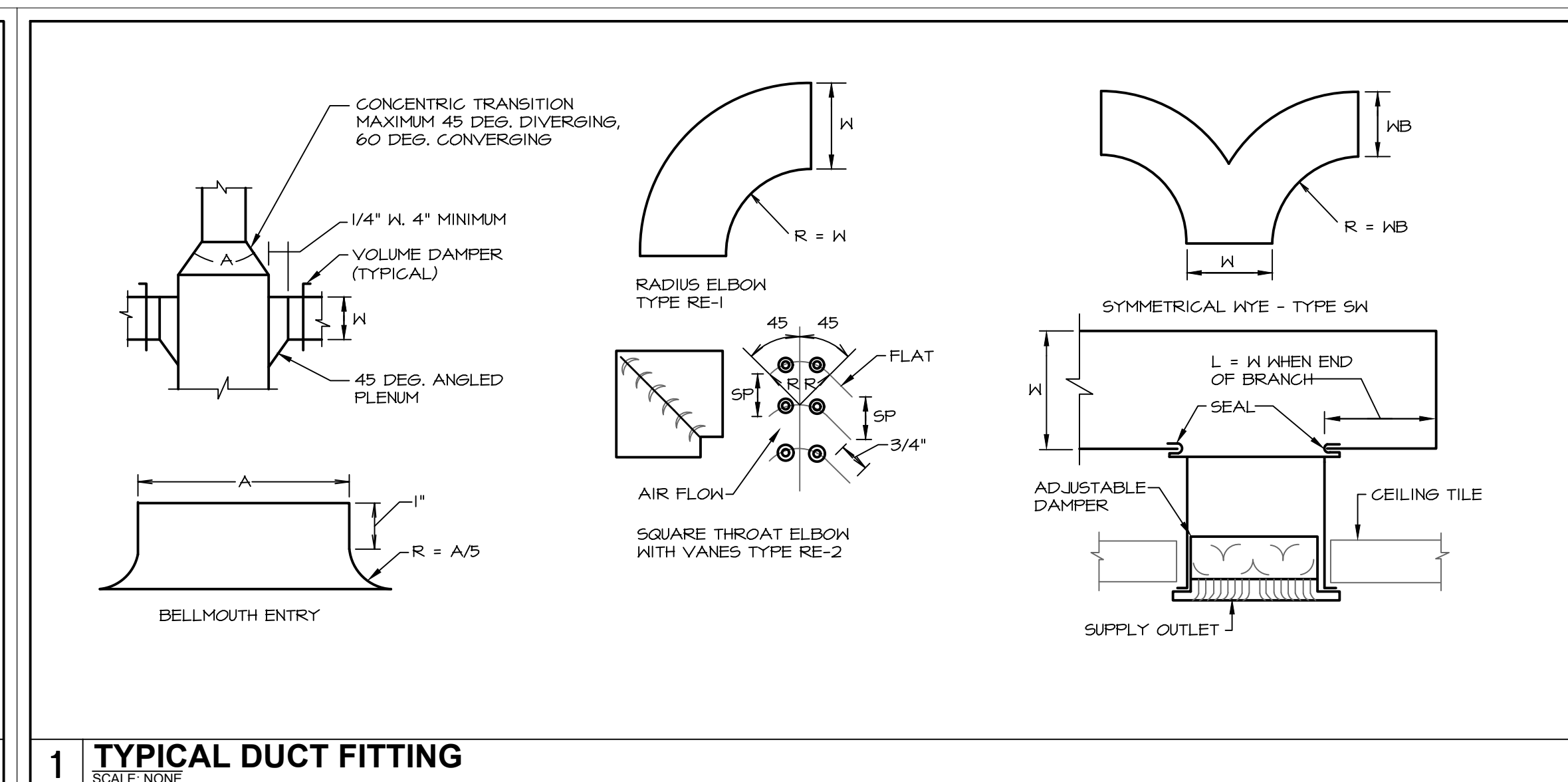
1 FLOOR PLAN - MECHANICAL PROPOSED
3/16" = 1'-0"



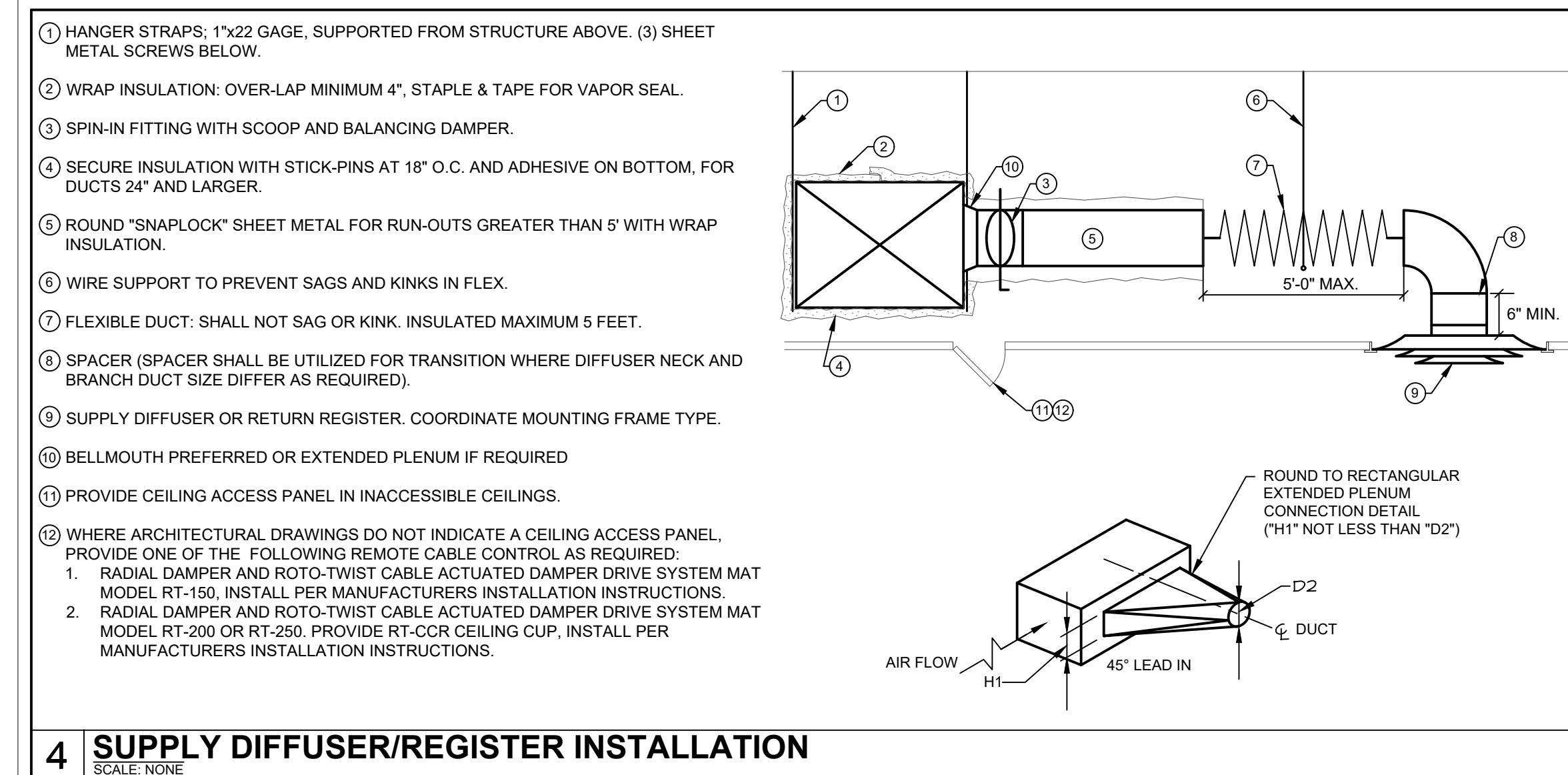
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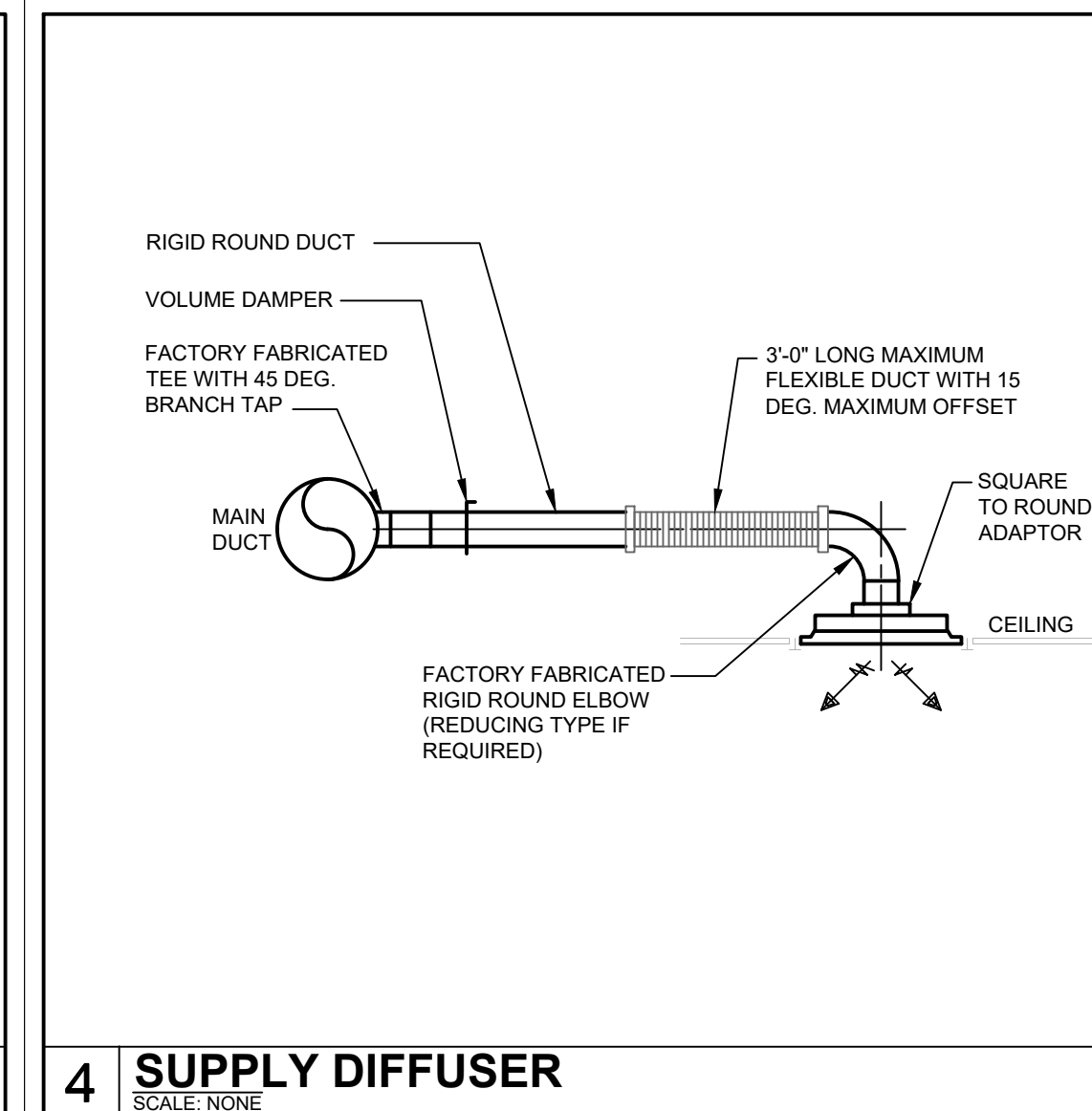
2 AIR FLOW DIRECTION AND BRANCH TAKE-OFF POSITION
SCALE: NONE



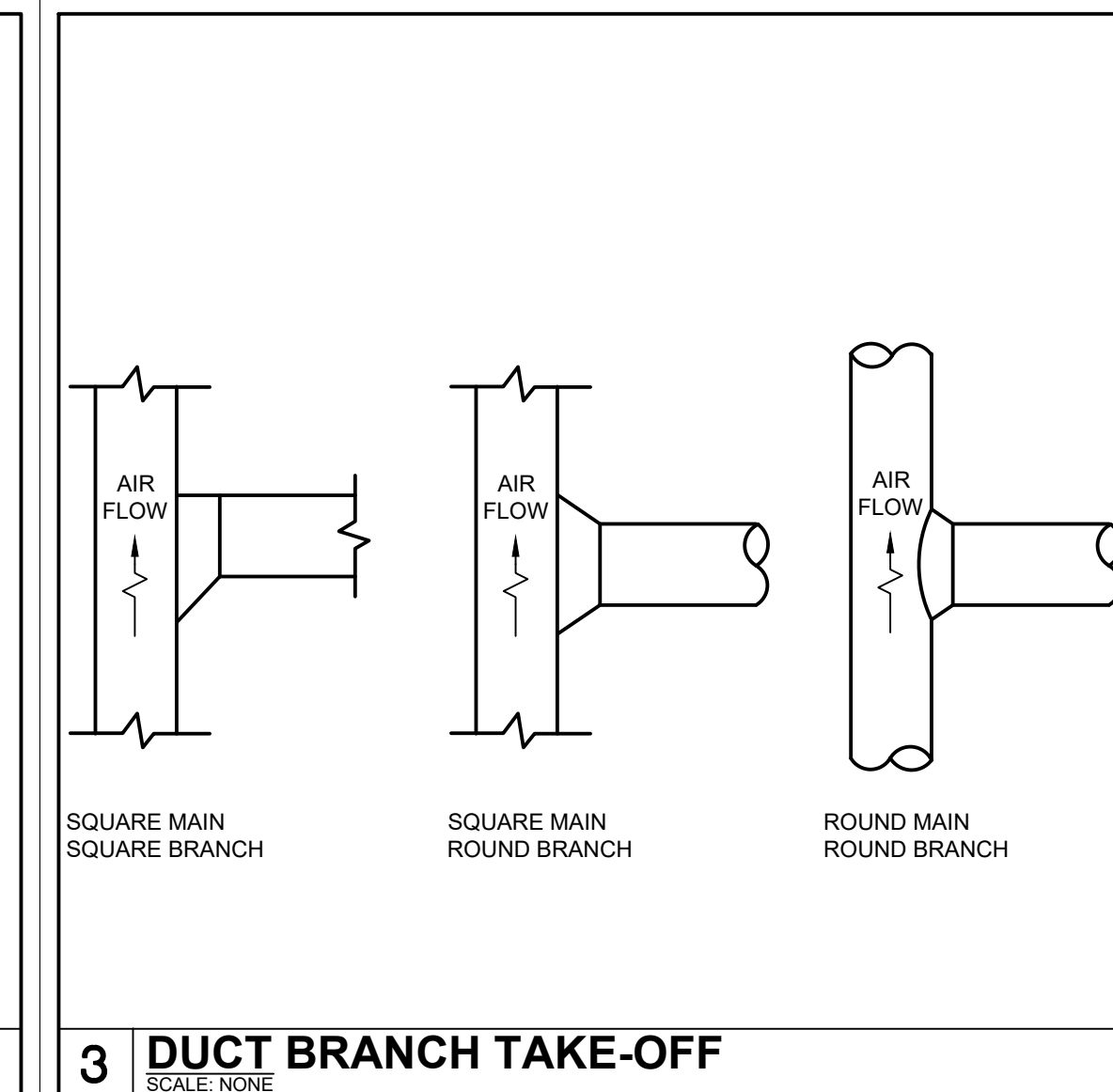
1 TYPICAL DUCT FITTING
SCALE: NONE



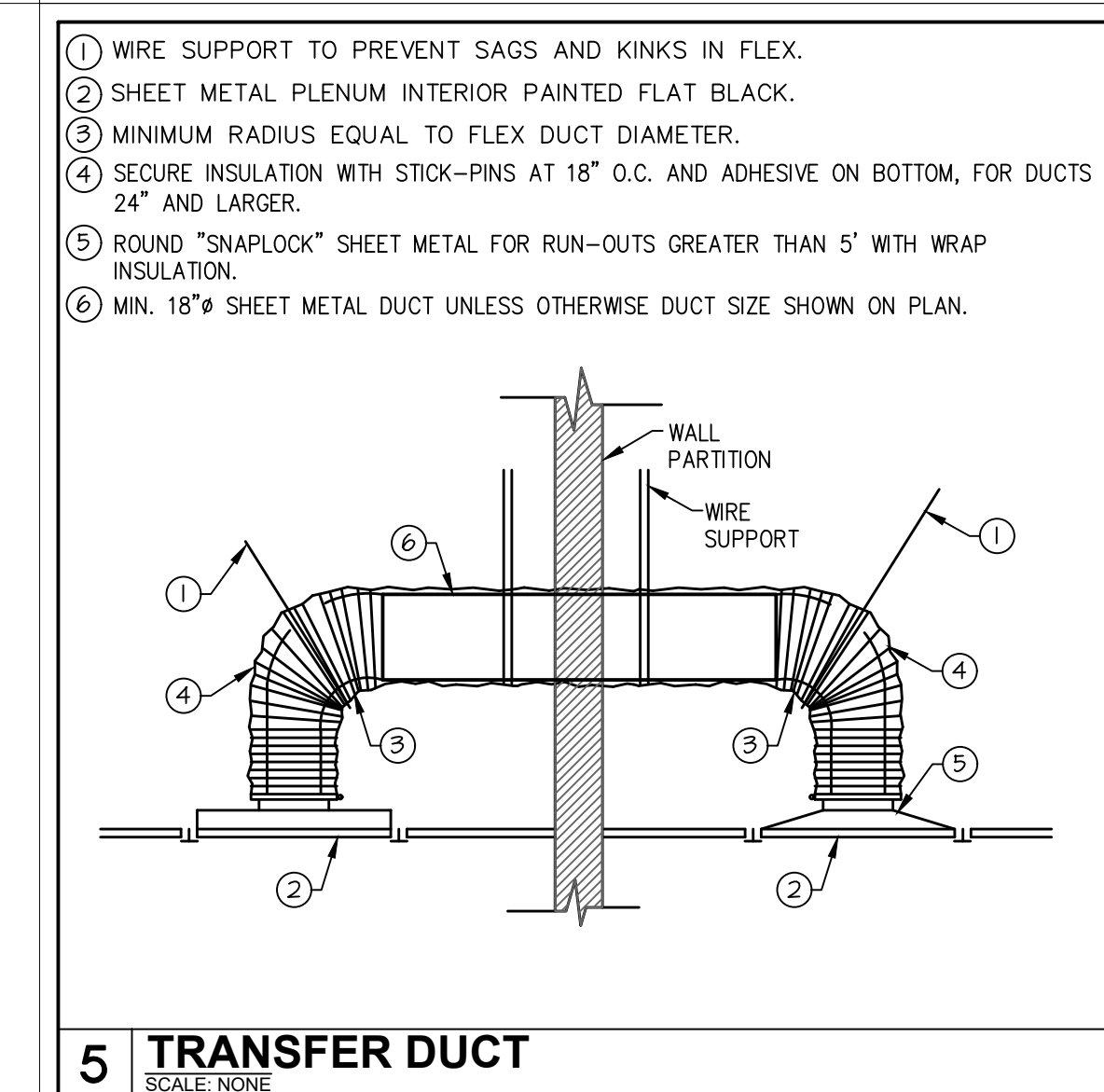
4 SUPPLY DIFFUSER/REGISTER INSTALLATION
SCALE: NONE



4 SUPPLY DIFFUSER
SCALE: NONE



3 DUCT BRANCH TAKE-OFF
SCALE: NONE



5 TRANSFER DUCT
SCALE: NONE

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MECHANICAL
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7 OF 7 SHEETS

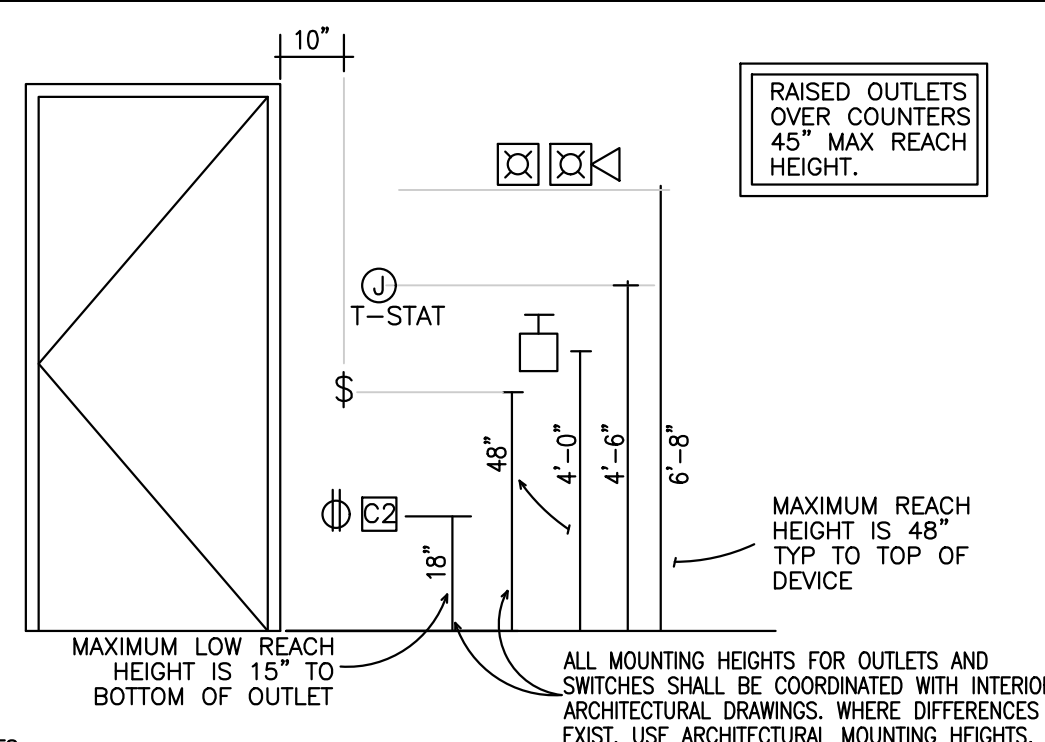
GENERAL NOTES

- THIS INSTALLATION SHALL BE IN COMPLIANCE WITH THE JOLIET, IL CODES OF ORDINANCES, AND NATIONAL CODES INCLUDING BUT NOT LIMITED TO: NEC2014, IECC2021, AND NFPA72.
- BEFORE COMMENCING WORK THE CONTRACTOR SHALL VISIT THE JOB SITE AND FULLY INFORM HIMSELF OR HERSELF OF ALL CONDITIONS THAT AFFECT THE WORK. EXAMINE THE DRAWINGS AND SPECIFICATIONS SHEET, AND SUBMIT ANY QUESTIONS IN WRITING TO THE ARCHITECT AND ENGINEER.
- ALL ELECTRICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATION SHEET AND ALL OTHER DRAWINGS RELATED TO THE PERFORMANCE OF THE WORK.
- THE CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THIS WORK SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT SPECIFICATIONS BEFORE COMMENCING ANY WORK. THE PROJECT SPECIFICATIONS AND DRAWINGS FORM THE BASIS OF THIS CONTRACT REQUIREMENTS AND INCLUDE THE TYPE AND GRADE OF MATERIALS TO BE INSTALLED, EQUIPMENT TO BE FURNISHED, THE MANNER BY WHICH TO BE INSTALLED AND WHERE TO BE LOCATED. IN THE EVENT OF A CONFLICT BETWEEN THE PROJECT SPECIFICATIONS AND DRAWINGS, THE MOST STRICT METHOD GOVERN UNLESS THE ARCHITECT/ENGINEER DIRECTS OTHERWISE.
- THE ELECTRICAL CONTRACTOR SHALL CHECK CAREFULLY ALL CONSTRUCTION DRAWINGS AND SPECIFICATION SHEET THAT ARE PART OF THIS PROJECT TO ENSURE THAT NO FIXTURE, OUTLET, ALARM STATION, CONTROL DEVICE, POWER WIRING DEVICE, ETC., IS OMITTED. HE/SHE SHALL CONSULT ALL TRADES FURNISHING EQUIPMENT AND OBTAIN FROM THEM ALL DATA. IN SOME CASES EQUIPMENT, FIXTURES AND DEVICES ARE SHOWN ONLY. ASCERTAIN AND PROVIDE THE WIRING AND CONTROL STATIONS REQUIRED FOR THE PROPER FUNCTION OF BUILDING EQUIPMENT. NO EXTRA CHARGES SHALL BE ACCEPTED BY OWNER AFTER BIDDING FOR SUCH EQUIPMENT AND LABOR.
- EQUIPMENT LABELS AND INSTRUCTIONS REGARDING THE APPLICATION AND INSTALLATION OF THE LISTED EQUIPMENT SHALL BE FOLLOWED TO INSURE THAT THE EQUIPMENT IS BEING INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTING INSTRUCTIONS. THE TEMPERATURE RATING OF THE EQUIPMENT TERMINATIONS MUST BE CAREFULLY CORRELATED WITH THE CONDUCTOR AMPACITY TO PREVENT OVERHEATING AND PREMATURE FAILURE.
- INSTALL ELECTRICAL DEVICES AS INDICATED IN THIS SET OF DRAWINGS. ADJUST FINAL DEVICE LOCATIONS AS REQUIRED TO ACCOMMODATE WORK. COORDINATE WITH ALL TRADES INVOLVED AND WITH ARCHITECTURAL CASEWORK AND ELEVATIONS DRAWINGS. NOTIFY THE ENGINEER AND/OR THE ARCHITECT IF ANY CONFLICTS ARE FOUND PRIOR TO BIDDING PROJECT. INSTALL CONDUIT AND BOXES TO CLEAR EMBEDDED DUCTS, OPENINGS AND OTHER STRUCTURAL FEATURES.
- ALL LIGHTING FIXTURES ARE TO BE LOCATED AS REQUIRED ON THE JOB TO CLEAR DUCTS, PIPING, EQUIPMENT, AND/OR MECHANICAL UNITS.
- CONDUIT RUNS SHOWN ON DRAWINGS ARE DIAGRAMMATIC. ALL CONDUITS SHALL RUN CONCEALED, EXCEPT IN EQUIPMENT ROOMS AND WHERE APPROVED BY THE ARCHITECT.
- ADJACENT POWER AND DATA DEVICES SHALL BE SPACED NO MORE THAN 4" APART. PROVIDE JUNCTION BOX MOUNTING BRACKET BETWEEN STUDS AS NEEDED. SEE DETAIL THIS SHEET FOR ADDITIONAL INFORMATION.
- ALL RECEPTACLES, VOICE AND DATA OUTLETS SHALL BE MOUNTED PER MOUNTING HEIGHT LEGEND, UNLESS OTHERWISE NOTED. SEE DETAIL THIS SHEET FOR ADDITIONAL INFORMATION. ALL DEVICES SHALL BE NEW. REFER TO ARCHITECTURAL CASEWORK DRAWINGS AND ARCHITECTURAL ELEVATIONS FOR EXACT DEVICES MOUNTING HEIGHTS.
- DETERMINE, IN ADVANCE OF PURCHASE, THAT ALL ELECTRICAL MATERIALS AND EQUIPMENT TO BE INSTALLED SHALL FIT INTO THE ROOM OR SPACE ALLOCATED, AS INDICATED ON THE DRAWINGS, ALLOWING SUFFICIENT CLEARANCE FOR THE SAFE SERVICE AND/OR MAINTENANCE OF RELATED EQUIPMENT, INCLUDING THAT OF OTHER TRADES.
- ALL CIRCUITS SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR INSTALLED. COLOR OF GROUNDING CONDUCTOR SHALL BE GREEN. SIZE OF GROUNDING CONDUCTOR SHALL BE AS REQUIRED PER NEC ARTICLE 250.122.
- ALL BRANCH CIRCUITS SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR INSTALLED UNLESS OTHERWISE INDICATED. COLOR OF NEUTRAL CONDUCTOR SHALL BE WHITE.
- ALL CONDUCTOR SHALL BE MADE OF COPPER. MINIMUM WIRE SIZE SHALL BE #12AWG UNLESS OTHERWISE INDICATED. UTILIZE SOLID CONDUCTORS FOR WIRE GAGES UP TO #12AWG AND STRANDED CONDUCTOR FOR GAGES #10AWG AND LARGER.
- ALL FEEDER AND BRANCH CIRCUIT WIRING INSTALLED INDOORS SHALL USE THHN INSULATION (90C). ALL WIRING INSTALLED OUTDOORS SHALL USE THWN INSULATION (75C). REFER TO SPECIFICATION SHEET FOR COLOR CODED REQUIREMENTS.
- ALL POWER WIRING SHALL BE INSTALLED IN A DEDICATED RACEWAY SYSTEM. MINIMUM RACEWAY SIZE SHALL BE 3/4" UNLESS OTHERWISE INDICATED. CONTRACTOR SHALL SIZE ALL CONDUITS SO AS TO NOT EXCEED 40% OF CONDUIT FILLING CAPACITY. WHEN MORE THAN THREE CURRENT CARRYING CONDUCTORS ARE INSTALLED IN THE SAME CONDUIT AND AMBIENT TEMPERATURES ADJUSTMENT FACTORS PER ELECTRICAL CODE TABLES 310.15(B)(2)(A), 310.15(B)(3)(A) SHALL BE APPLIED.
- ALL CIRCUITS SERVING EMERGENCY EXIT SINGS, NIGHT LIGHTS AND EXTERIOR LIGHTS SHALL UTILIZE #10 WIRE TO MINIMIZED VOLTAGE DROP UNLESS OTHERWISE INDICATED.
- ALL BREAKERS SERVING FIRE ALARM EQUIPMENT AND EXIT SIGNS SHALL HAVE LOCK-OUT DEVICE INSTALLED UNLESS OTHERWISE INDICATED.
- DISTRIBUTION PANELS AND BRANCH CIRCUIT PANELBOARDS, SHALL BE LABELED WITH PANEL NAME AND ALSO HAVE A PANEL DIRECTORY INSTALLED. UTILIZE TYPE WRITER AS A MINIMUM FOR COMPLIANCE. HAND WRITTEN CARD DIRECTORIES ARE NOT ACCEPTABLE.
- DISTRIBUTION PANELS, BRANCH PANELBOARDS, DISCONNECT SWITCHES, ETC. SHALL BE LABEL WITH A READILY VISIBLE LABEL PER NFPA 70E, STANDARD FOR SAFETY IN THE WORKPLACE, LABEL SHALL BE CLEARLY VISIBLE TO PERSONNEL AND SHALL READ "CAUTION ARC FLASH HAZARD" ALSO LABELS SHALL INDICATE THE AVAILABLE SHORT CIRCUIT CURRENT AT EQUIPMENT, PPE, VOLTAGE, PHASES, SIZE AND COLOR OF TEXT SHALL BE PER STANDARD.
- ALL FINAL CONNECTIONS TO MOTORS AND VIBRATING EQUIPMENT SHALL BE DONE WITH LIQUID TIGHT FLEXIBLE METAL CONDUIT. INSTALL GREEN GROUNDING CONDUCTOR.
- INSTALL CONDUIT FROM THE TOP OF THE BAR JOIST.
- LABEL ALL J-BOXES COVER PLATES, RECEPTACLES COVER PLATES WITH CIRCUIT INFORMATION AND PANEL SOURCE. UTILIZE P-TOUCH LABEL OR APPROVED EQUAL.
- ALL MOUNTING HEIGHTS OF DEVICES SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS OR ARCHITECT PRIOR TO ROUGH-IN.
- DO NOT INSTALL DEVICES IN DIFFERENT ROOMS BACK TO BACK. PROVIDE 6" SIDE BY SIDE IN BETWEEN.
- GENERAL USE RECEPTACLES SHALL BE WHITE IN COLOR WITH STEEL COVER PLATES. FINAL COLOR OF RECEPTACLES & COVER PLATES SHALL BE AS SELECTED BY THE ARCHITECT OR OWNER.
- FIRE PROOF ALL PENETRATIONS THRU WALLS AND FLOORS TO RE-ESTABLISH THE FIRE RATING OF PARTITION.
- PROVIDE MULTI-GANG J-BOX FOR INSTALLATION OF WIRING DEVICES LOCATED AT THE SAME LOCATION UNLESS OTHERWISE INDICATED ON THE FLOOR PLANS. PROVIDE METALLIC DIVIDER PLATES BETWEEN DIFFERENT CIRCUITS IN THE SAME BOX.
- ALL PULL BOXES AND JUNCTION BOXES SHALL BE SIZED PER ELECTRICAL CODE

GENERAL NOTES (CONTINUE)

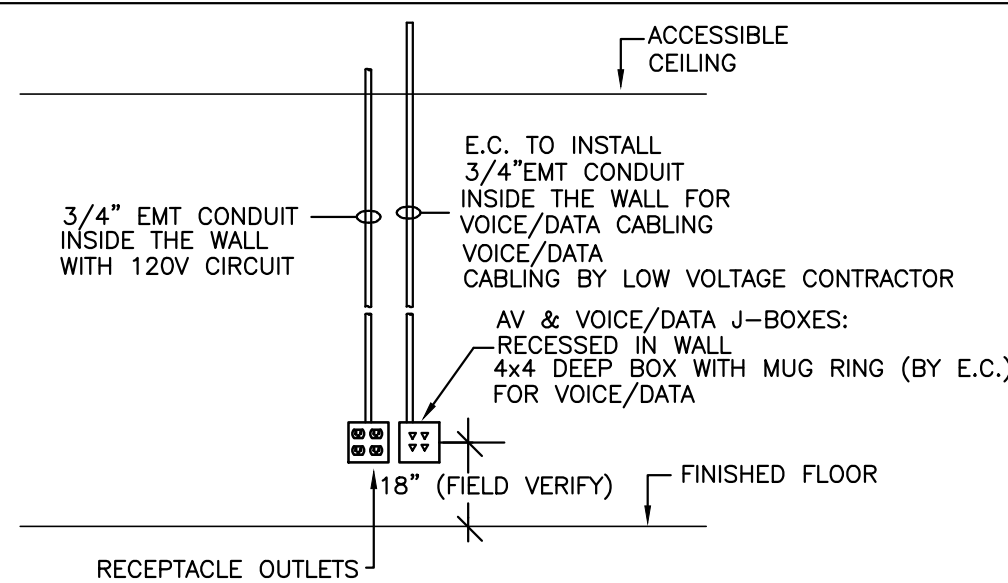
- ARTICLE 314, TABLES 314.16 BASED IN THE AMOUNT OF CABLE AND CONDUITS ENTERING/LEAVING THE BOX.
- VOICE/DATA/AUDIO VISUAL (AV) SYSTEMS CABLING AND EQUIPMENT SHALL BE PROVIDED BY LOW VOLTAGE CONTRACTOR. EC SHALL PROVIDE REQUIRED JUNCTION BOXES, CONDUIT, AND PULL STRING FOR ALL LOCATIONS.
 - FOR THE AREA OF WORK WITH DAMAGED, DETERIORATED, COMPROMISED OR MISSING FIREPROOFING CREATED OR EXPOSED DURING CONSTRUCTION SHALL BE RESTORED TO FULL PROTECTIVE CAPACITY.
 - AUXILIARY GUTTERS UTILIZING MORE THAN 30 CURRENT CARRYING CONDUCTORS SHALL BE DERATED ACCORDING TO THE ADJUSTMENT FACTORS IN ARTICLE 310.15(B)(2)(g).
 - USE OF ARMORED CABLE BY E.C. (TYPE AC) OR METAL-CLAD CABLE (TYPE MC), SHALL NOT EXCEED 6 FEET (6') IN LENGTH PER ARTICLE 320.12 AND 330.12 AS AMENDED.
 - BUSINESS OWNER CAN MAKE ELECTRICAL CHANGES, BUT THOSE CHANGES, PRIOR TO MODIFICATIONS, SHALL BE SUBMITTED TO THE CITY TO ASSESS CODE COMPLIANCE FOR THE PROPOSED CHANGES. (IBC SECTION 107.2.1)
 - PROVIDE ARC-FLASH HAZARD WARNING MARKING ON ALL PANELS IN ACCORDANCE WITH NEC 110.16.
 - WHEREVER CIRCUIT AND FEEDERS CONDUCTORS ARE SPLICED IN A JUNCTION BOX, ANY ASSOCIATED EQUIPMENT GROUNDING CONDUCTORS (EGC) SHALL BE BONDED (*PIGTAILED) TO THE BOX.
 - PROPER CLEARANCES FOR THE ELECTRICAL PANEL SHALL BE MAINTAINED PER NEC 110.26(A),(B),(C).
 - ILLUMINATION SHALL BE PROVIDED FOR ALL WORKING SPACES ABOUT ELECTRICAL EQUIPMENT AND THAT THE ILLUMINATION SHALL NOT BE CONTROLLED BY AUTOMATIC MEANS ONLY PER NEC 110.26(D).
 - THE SERVICE DISCONNECT SHALL BE PERMANENTLY MARKED TO IDENTIFY IT AS THE SERVICE DISCONNECT.
 - THE PANEL DIRECTORIES SHALL HAVE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS AND THE PANEL LABEL(S) SHALL INCLUDE THE SOURCE OF FEED PER NEC 408.4.

MOUNTING HEIGHTS



NOTES:
1. ALL HEIGHTS FOR OUTLETS ARE AS INDICATED. COORDINATE WITH INTERIOR ARCHITECTURAL DRAWINGS. WHERE DIFFERENCES EXIST, USE ARCHITECTURAL MOUNTING HEIGHTS.

ELECTRIC AND VOICE/DATA OUTLETS



NOTE:
1-ADJACENT POWER AND DATA/PHONE DEVICES SHALL BE SPACED NO MORE THAN 4" APART. PROVIDE JUNCTION BOX MOUNTING BRACKET BETWEEN STUDS AS NEEDED.
2-ALL RECEPTACLE OUTLETS SHALL BE PROVIDED W/ P-TOUCH LABEL WITH CIRCUIT # AND SOURCE PANEL TAGS

ELECTRICAL SYMBOL LIST

- ⊕# DUPLEX RECEPTACLE, # INDICATES CIRCUIT
- ⊖ SIMPLEX RECEPTACLE
- C ⊖ SIMPLEX RECEPTACLE CLOCK STYLE
- GF ⊖ DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER
- U ⊖ DUPLEX RECEPTACLE, W/2 USB PORTS
- ⊕# QUAD RECEPTACLE (# INDICATES CIRCUIT)
- ⊕# AC QUAD RECEPTACLE MOUNTED ABOVE THE COUNTER (+44" AFF)
- AS ⊖ DUPLEX RECEPTACLE MOUNTED AT SWITCH HEIGHT
- ⊕# SPECIAL RECEPTACLE COORDINATE EXACT REQUIREMENTS WITH EQUIP. SERVING
- ⊖ FLUSH MOUNTED FLOOR BOX WITH DUPLEX RECEPTACLE
- ⊖ FB FLOOR BOX (REFER TO FLOOR PLAN FOR REQUIREMENTS: PWR, VOICE/DATA & AV)
- ⊖ PB PULL BOX
- \$ TOGGLE SWITCH SPECIFICATION GRADE
- \$ D TOGGLE SWITCH WITH DIMMER
- \$ 3 3-WAY TOGGLE SWITCH
- \$ K KEYED SWITCH
- \$ P RED PILOT LIGHT SWITCH (ON IN THE ON POSITION)
- \$ OS DUAL TECH WALL SWITCH OCCUPANCY SENSOR
- ⊖ DUAL TECH CEILING MOUNTED OCCUPANCY SENSOR.
- ⊖ DAY LA SENSOR
- ⊖ PHOTOCELL FOR OVERRIDE TIME CLOCK FUNCTION
- ⊖ HEAVY DUTY FUSIBLE DISCONNECT SWITCH
- ⊖ JUNCTION BOX
- ⊖ SINGLE POLE DISCONNECT SWITCH TOGGLE STYLE
- ⊖ MOTOR WITH MOTOR RATED DISCONNECT SWITCH.
- ⊖ HOT, NEUTRAL, GROUND CONDUCTOR IN RACEWAY
- ⊖ RACEWAY STUB UP TO ABOVE ACCESSIBLE CEILING WITH END BUSHING
- ⊖ CONDUIT CONCEALED IN WALL/ABOVE THE CEILING
- ⊖ CONDUIT IN CONCRETE SLAB/UNDERGROUND
- ⊖ EXPOSED CONDUIT
- ⊖ FLEXIBLE METAL CONDUIT
- ⊖ SLEEVE WITH END BUSHINGS ACC SIZE AS INDICATED IN DRAWINGS
- ⊖ VOICE/DATA OUTLET (2-PORT) (C3:3-PORTS; C4:4PORTS, ETC)
- ⊖ (4x4 DEEP BOX WITH MUG RING AND ONE (1) 3/4" C. STUB UP VOICE OUTLET
- ⊖ (4x4 DEEP BOX WITH MUG RING AND ONE (1) 3/4" C. STUB UP VOICE/DATA OUTLET
- ⊖ (4x4 DEEP BOX WITH MUG RING AND ONE (1) 3/4" C. STUB UP AUDIO/VISUAL/DATA OUTLET
- ⊖ (4x4 DEEP BOX WITH MUG RING AND ONE (1) 1 1/4" C. STUB UP TO ACC WITH END BUSHING)
- ⊖ WAF WIRELESS ACCESS POINT
- ⊖ SEC. CAMERA BY SEC. CONTRACTOR (E.C TO ROUGH-IN 3/4" C UP TO ABOVE ACC. COORD. WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN ROUGH IN FOR CARD READER
- ⊖ PREPARE DOOR FOR SECURITY DOOR CONTACT
- ⊖ ROUGH IN FOR REQUEST TO EXIT DEVICE
- ⊖ WALL/CORNER/CEILING MOUNTED MOTION SENSOR
- ⊖ CEILING MOUNTED OCCUPANCY SENSOR
- ⊖ PREPARE DOOR FOR ELECTRIC HARDWARE
- ⊖ PREPARE DOOR FOR MAG-LOCK
- ⊖ ROUGH-IN FOR SECURITY KEY PAD
- ⊖ FIRE ALARM CONTROL PANEL
- ⊖ FIRE ALARM REMOTE ANNUNCIATOR PANEL
- ⊖ FIRE ALARM REMOTE BOOSTER POWER SUPPLY
- ⊖ FIRE ALARM DOUBLE ACTION PULL STATION
- ⊖ WALL MOUNTED FIRE ALARM STROBE (DEVICE W/ AN "C" IS CEILING MTD)
- ⊖ WALL MOUNTED FIRE ALARM HORN/STROBE (W/ AN "C" IS CEILING MTD)
- ⊖ FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR
- ⊖ FIRE ALARM HEAT DETECTOR (SEE DRAWINGS FOR TYPE)
- ⊖ 135FIX, 200FIX, RATE OF RISE (ROR)
- ⊖ FIRE ALARM CO DETECTOR
- ⊖ FIRE ALARM DUCT SMOKE DETECTOR
- ⊖ FIRE ALARM DUCT DETECTOR REMOTE KEYED TEST SWITCH
- ⊖ FIRE ALARM MONITOR MODULE
- ⊖ FIRE ALARM CONTROL RELAY
- ⊖ FIRE PROTECTION WATER FLOW SWITCH (INTERFACE WITH FACP VIA MM)
- ⊖ FIRE PROTECTION TAMPER SWITCH (INTERFACE WITH FACP VIA MM)
- ⊖ KNOX BOX
- ⊖ CEILING MOUNTED SPEAKER
- ⊖ ADA MOTORIZED DOOR OPENER PUSH BUTTON
- ⊖ UNIVERSAL MOUNTED (CEILING/WALL) EXIT SIGN WITH CHEVRONS (SEE LIGHT FIXTURE SCHEDULE)
- ⊖ 2 x 4 SURFACE MOUNTED LIGHT FIXTURE (SEE LIGHT FIXTURE SCHEDULE)
- ⊖ 2 x 4 RECESSED MOUNTED LIGHT FIXTURE (SEE LIGHT FIXTURE SCHEDULE)
- ⊖ 2 x 2 RECESSED MOUNTED LIGHT FIXTURE (SEE LIGHT FIXTURE SCHEDULE)
- ⊖ NIGHT LIGHT FIXTURE (SEE LIGHT FIXTURE SCHEDULE)
- ⊖ LIGHT FIXTURE (SEE LIGHT FIXTURE SCHEDULE)
- ⊖ EMERGENCY LIGHT (SEE LIGHT FIXTURE SCHEDULE)
- ⊖ SINGLE HEAD POLE LIGHT SYSTEM (SEE LIGHT FIXTURE SCHEDULE)
- ⊖ PANELBOARD
- ⊖ UTILITY TRANSFORMER

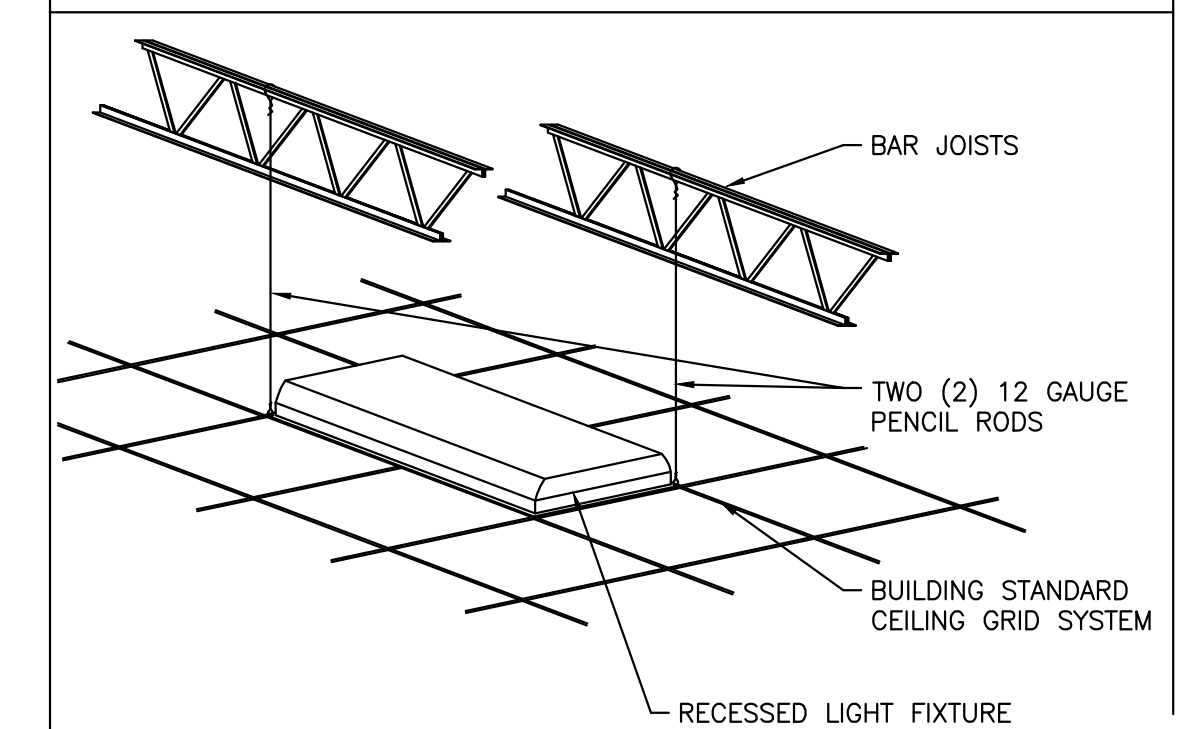
ABBREVIATIONS

WP	WEATHER PROOF
WG	WIRE GUARD
AC	ABOVE THE COUNTER (+44" AFF)
C	CEILING MOUNTED DEVICE
NL	NIGHT LIGHT
CLG	CEILING
(R)	RETURN DUCTWORK
(S)	SUPPLY DUCTWORK
OHD	OVERHEAD DOOR
ACC	ABOVE ACCESSIBLE CEILING
VEL	VERIFY EXACT LOCATION PRIOR TO ROUGH-IN
+42	DEVICE MOUNTED AT 42 INCHES AFF
AFF	ABOVE FINISH FLOOR
TR	TAMPER RESISTANT
TG	TAMPER GUARD
EWC	ELECTRICAL WATER COOLER
WP/	METAL WHILE-IN-USE COVER WEATHER PROOF SIMILAR TO
EATON WILMH-1	SERIES
E.C.	ELECTRICAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
S.C.	SECURITY CONTRACTOR
WP	WEATHER PROOF
ATS	AUTOMATIC TRANSFER SWITCH
AHJ	AUTHORITY HAVING JURISDICTION
HD	ELECTRICAL HAND DRYER
IWH	INSTANTANEOUS ELECTRICAL WATER HEATER
XO	EXISTING DEVICE TO BE DEMOLISHED
X	EXISTING DEVICE TO REMAIN
XRR	EXISTING DEVICE TO BE REMOVED AND RELOCATED
XR	EXISTING DEVICE RELOCATED
N	NEW DEVICE
LTS	LIGHTS

ELECTRICAL DRAWING LIST

E0.1	ELECTRICAL SYMBOL LIST & GENERAL NOTES
ED1.0	FLOOR PLAN - ELECTRICAL DEMOLITION
E1.0	FLOOR PLAN - ELECTRICAL PROPOSED
EL1.0	FLOOR PLAN - LIGHTING PROPOSED
E2.0	PARTIAL ELECTRICAL RISER DIAGRAM & PANEL SCHEDULES
E3.0	LIGHT FIXTURES SCHEDULE & DETAILS
E4.0	ELECTRICAL SPECIFICATION SHEET

LAY-IN CEILING FIXTURE MOUNTING DETAIL



ALL LAY-IN LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF CEILING GRID SUPPORTS. SUPPORT LIGHT FIXTURES WITH (2) 12 GAUGE PENCIL RODS LOCATED AT OPPOSITE CORNERS FROM TOP OF BAR JOISTS. SEE DETAIL ABOVE.

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ELECTRICAL SYMBOL LIST & GENERAL NOTES

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FLOOR PLAN - ELECTRICAL DEMOLITION

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JOLIET, ILLINOIS

DATE: 04-28-25
REVISED:

PROJECT NO. 2411-01

SHEET NUMBER

EDO.1

2 OF 7 SHEETS

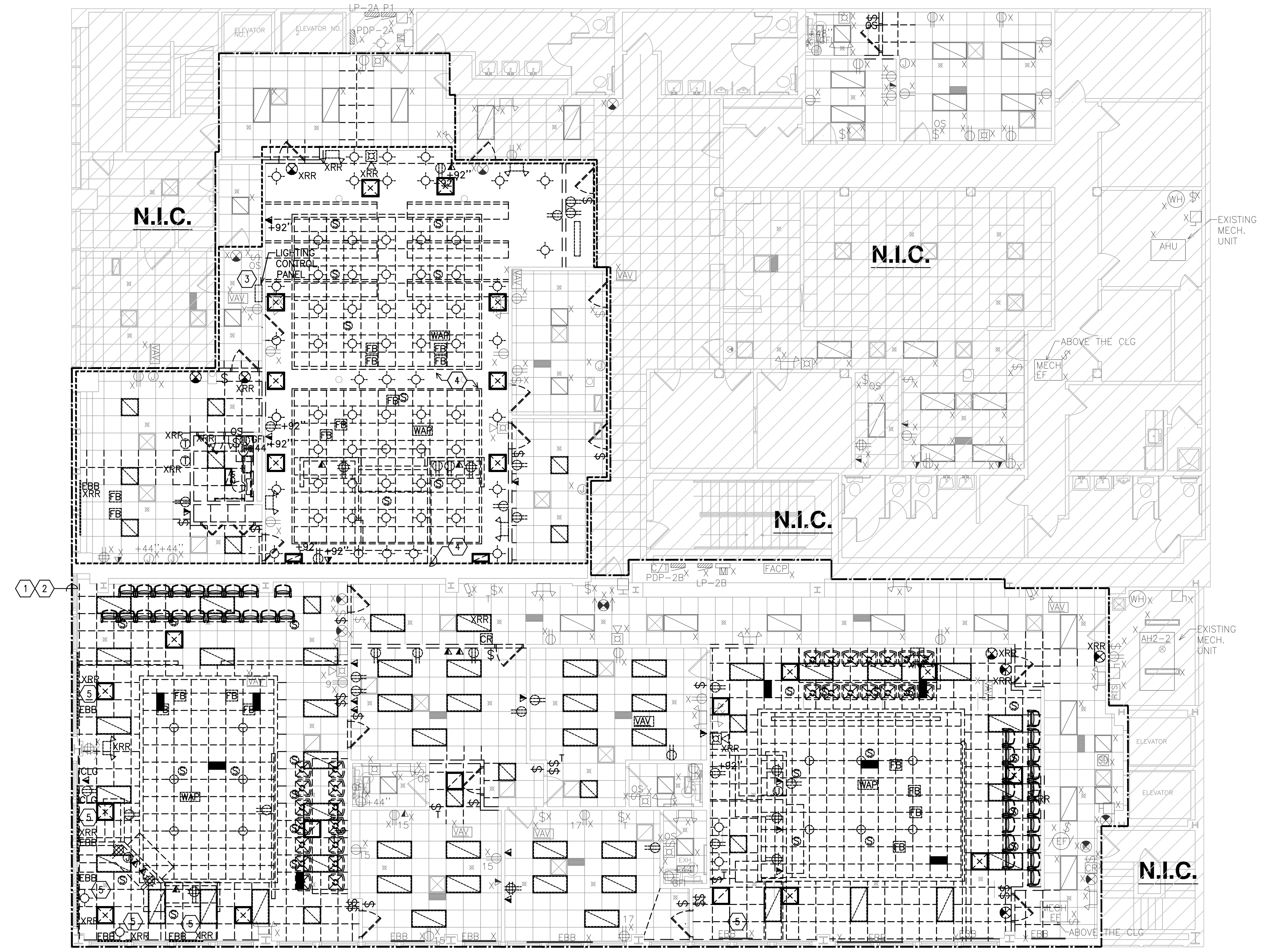
ELECTRICAL DEMOLITION PLAN NOTES

- ELECTRICAL DEVICES INDICATED UNDER DEMOLITION (NOT TAGGED WITH "X") OR IN THE WAY OF NEW CONSTRUCTION SHALL BE DISCONNECTED AND REMOVED. REMOVED RACEWAY AND WIRING BACK TO UNAFFECTED AREA/DEVICES FOR RECONNECTION TO NEW DEVICES. BYPASS RACEWAY AND WIRING AS REQUIRED TO KEEP REMAINING DEVICES OPERATIONAL. UPDATE PANEL CARD DIRECTORY TO REFLECT NEW CHANGES. DISPOSE OF LAMPS PER E.P.A. REQUIREMENTS. DEVICES LABELED "XRR" ARE EXISTING DEVICES TO BE REMOVED AND RELOCATED. RETAIN THOSE DEVICES FOR REINSTALLATIONS AT NEW LOCATIONS. ALL EMPTY CIRCUITS SHALL BE REMOVE BACK TO PANEL, TURN OFF BREAKER AND LABEL "SPARE".
- VOICE AND DATA OUTLETS INDICATED UNDER DEMOLITION SHALL BE DISCONNECTED AND REMOVED. REMOVE RACEWAY AND CABLING BACK TO SOURCE. IF NEW VOICE AND DATA OUTLET MATCH EXISTING LOCATION, CONTRACTOR SHALL KEEP EXISTING J-BOX AND RACEWAY FOR INSTALLATION OF NEW VOICE/DATA OUTLET. INSTALL BLANK FINISH COVER PLATE OF COLOR TO MATCH SURROUNDING AREA IF NOT NEW VOICE/DATA WILL BE INSTALLED.
- LIGHTING CONTROL SYSTEM AND PANEL SHALL BE DISCONNECTED AND REMOVED. REMOVED FEEDER RACEWAY AND WIRING BACK TO SOURCE AND LOADS. BYPASS RACEWAY AND WIRING AS REQUIRED TO KEEP REMAINING DEVICES OPERATIONAL.
- WORK IN THIS BOXED AREA SHALL BE PART OF A FUTURE PHASE. SHOWN ONLY FOR REFERENCE AND COORDINATION WITH THIS PROJECT.
- REMOVED AND RELOCATED DOWN TO NEW FLOOR LEVEL AFTER RAISED PLATFORM IS REMOVED.

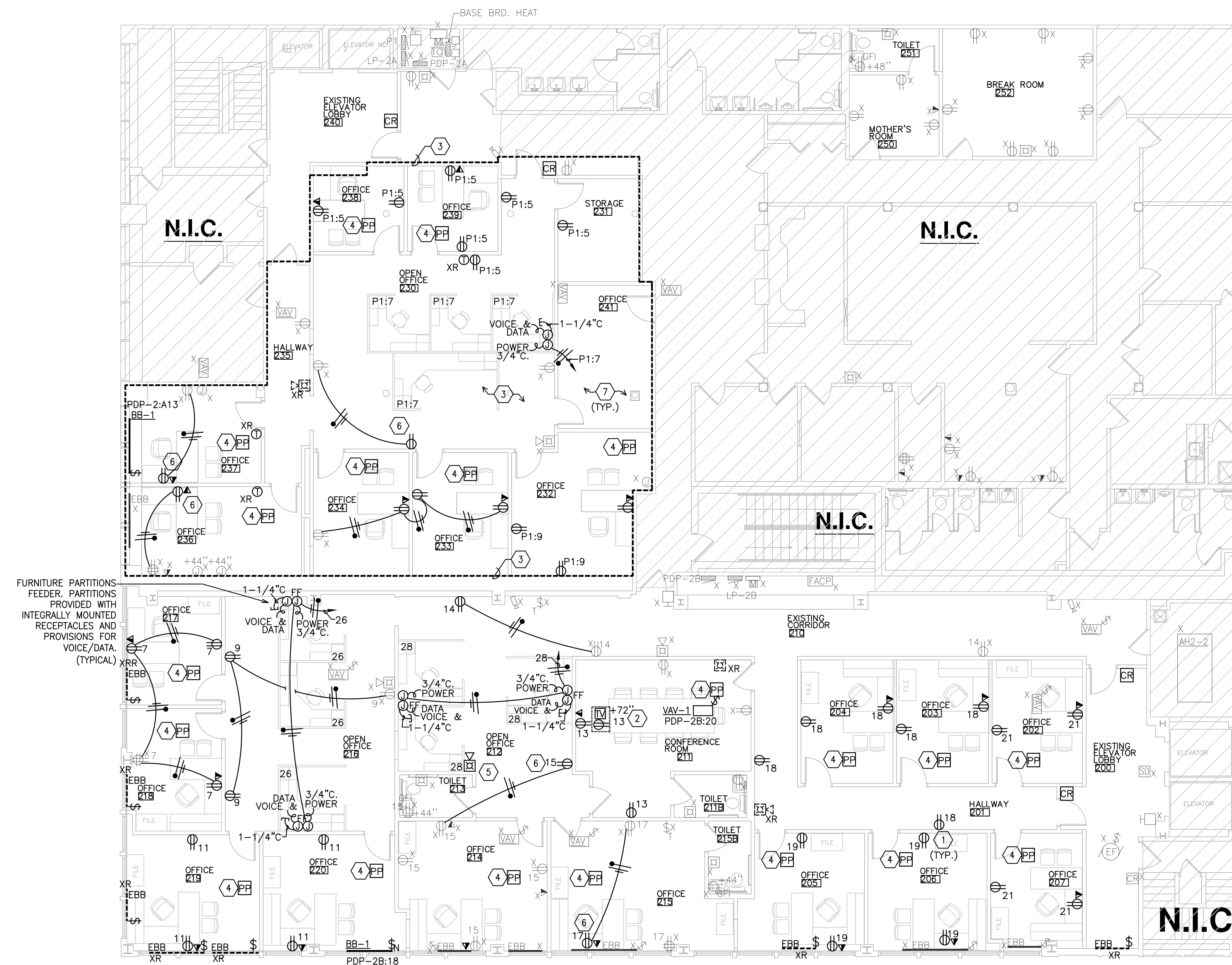
LEGEND	
X	- EXISTING DEVICE TO REMAIN
XO	- EXISTING DEVICE TO BE REMOVED
XRR	- EXISTING DEVICE TO BE REMOVED AND RELOCATED
XR	- EXISTING DEVICE RELOCATED
N	- NEW DEVICE

GENERAL DEMOLITION NOTES

- EACH CONTRACTOR SHALL REVIEW THE EXISTING SYSTEMS IN THE FIELD ALONG WITH BID DOCUMENTS AND DETERMINE SELECTIVE DEMO AND ADDITION OF TEMPORARY SYSTEMS (IF REQUIRED) TO MAKE PHASED DEMO AND PROPOSED REMODELING. IT SHALL ASSURE UNINTERRUPTED SAFE OPERATION OF AREAS THAT ARE AFFECTED BY DEMO AND ADDITION OF PROPOSED SYSTEMS AT ALL TIMES. INCLUDE THE NECESSARY WORK TO ACCOMPLISH THIS AND COORDINATE PHASING ACCORDINGLY.
- CONFIRM WITH THE MANUFACTURERS OF EXISTING EQUIPMENT THAT IS TO BE REUSED OR EXTENDED.
- WHERE EXISTING ELECTRICAL WORK PREVENTS PROPER CONSTRUCTION OF NEW WORK AS INDICATED, REMOVE, REROUTE, RELOCATE, OR IN OTHER WAYS ALTER EXISTING WORK IN ORDER TO ACCOMMODATE.
- WHERE EXISTING CONDUIT, WIRE, SUPPORTS, HANGERS AND OTHER ELECTRICAL WORK MUST BE REMOVED AS A RESULT OF THE ALTERATIONS, THEY SHALL BE COMPLETELY REMOVED, BACK TO THE FIRST OUTLET WHICH IS LEFT UNAFFECTED BY THE DEMOLITION. CONDUIT WHICH IS BURIED IN CONCRETE OR OTHERWISE INACCESSIBLY POSITIONED MAY BE ABANDONED. IN SUCH CASES, WIRE SHALL BE PULLED OUT AND THE CONDUIT SHALL BE PLUGGED AT EACH END.
- EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, INCLUDING LIGHTING FIXTURES, SWITCHES, RECEPTACLES, SIGNAL LIGHTS, SPEAKERS, INTERCOM EQUIPMENT, CONTROLS, CONDUIT OUTLETS, FITTINGS, AND OTHER DEVICES REMOVED AS A RESULT OF THE ALTERATIONS SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE REUSED WHERE INDICATED UNLESS OTHERWISE INDICATED.
- EXAMINE THE CONDITION OF ANY SUCH MATERIALS AND EQUIPMENT TO MAKE A PRIOR DETERMINATION OF WHETHER IT IS SUITABLE FOR REUSE. PRESENT FINDINGS TO THE ENGINEER WHO WILL IN TURN MAKE THE FINAL DECISION REGARDING REUSABILITY. ALL WIRE AND CABLE FOR REUSED AND RELOCATED EQUIPMENT SHALL BE NEW.
- IN ORDER TO COORDINATE THE WORK OF THE MECHANICAL AND ELECTRICAL TRADES, REMOVE EXISTING ELECTRICAL WORK IN AND ABOVE CEILING OF THESE AREAS (AS REQUIRED), AFTER WHICH INSTALL NEW WORK AND REINSTALL EXISTING WORK TO REMAIN, AS SHOWN ON THE DRAWINGS. EXISTING MATERIALS AND EQUIPMENT SHALL BE REUSED ONLY WHERE INDICATED.
- SOME EXCEPTIONS MAY ARISE WHEREIN EQUIPMENT, EITHER IN ALTERED AREAS OR OTHER AREAS, MUST BE KEPT IN SERVICE, REQUIRING THAT FEEDERS, SIGNAL CONDUCTORS, CONDUITS, BOXES, ETC. SERVING SAME ALSO BE KEPT IN SERVICE. IN SUCH CASES, THOSE ELECTRICAL FEEDERS, SIGNAL CONDUCTORS, CONDUITS, ETC. SHALL BE REROUTED AND RECONNECTED BEFORE PRESENT WORK IS REMOVED. IF THIS IS NOT POSSIBLE, TEMPORARY WIRING SHALL BE PROVIDED, AFTER WHICH NEW WORK SHALL BE INSTALLED AND TEMPORARY WIRING REMOVED.
- ANY ELECTRICAL EQUIPMENT THAT IS TAGGED TO BE DISPOSED OF SHALL BE DONE PER APPROVED METHOD IN ACCORDANCE WITH THE CONSTRUCTION PLAN AND LOCAL AUTHORITIES.
- THIS DRAWING INDICATES AREAS THAT ARE BEING AFFECTED BY THE DEMOLITION. DASHED LINES SHOW EXISTING MATERIALS AND EQUIPMENT TO BE REMOVED. SOLID LINES SHOW EXISTING MATERIALS AND EQUIPMENT TO REMAIN (X). ELECTRICAL CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT AFFECTED BY THE DEMOLITION AND WILL KEEP REMAINING EQUIPMENT CONNECTED, POWERED TO THE EXISTING CIRCUITS AS REQUIRED.
- THIS DRAWING SHOWS A REPRESENTATIVE SAMPLE OF DEMOLITION WORK THAT IS TO TAKE PLACE. NOTE THAT NOT EVERY DEVICE, LIGHTING FIXTURE, CONDUIT ETC. REQUIRED TO BE DEMOLISHED IS NECESSARILY INDICATED ON THIS PLAN. THE CONTRACTOR SHALL VISIT THE JOB SITE TO FAMILIARIZE HIMSELF/HERSELF WITH THE EXTENT OF EXISTING WORK TO BE DEMOLISHED.
- ALL PROPOSED DEMOLITION WORK SHALL BE THOROUGHLY COORDINATED WITH ALL OTHER TRADES.
- MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS, FEEDERS AND BRANCH CIRCUITS PASSING THROUGH RENOVATED AREA AND SERVING UNDISTURBED AREAS.
- ANY PORTION OF THE EXISTING CONDUIT SYSTEM THAT IS TO BE REUSED FOR THE NEW INSTALLATION SHALL BE CHECKED TO ENSURE THAT IT IS CLEAN, FREE OF DAMAGE, FREE OF CORROSION, AND ADEQUATELY SUPPORTED. REMOVED RACEWAY SHALL NOT BE RE-USE.
- DISCONNECT AND REMOVE ALL ELECTRICAL EQUIPMENT, DEVICES AND CONDUITS IN WALLS, FLOORS AND CEILING SCHEDULED FOR DEMOLITION.
- EXISTING ELECTRICAL SYSTEM IS DESCRIBED BASED ON SURVEYS OF EXISTING CONDITIONS THAT WERE VISIBLE DURING THE SURVEY. CONTRACTOR SHALL CONFIRM ALL SERVICES PRIOR TO PROCEEDING WITH DEMOLITION.
- PATCH ALL HOLES IN SLABS, WALLS AND CEILING WHERE ELECTRICAL DEVICES AND/OR CONDUIT ARE REMOVED. IF THE REMOVAL OF CONDUIT, BOXES, EQUIPMENT, ETC. COMPROMISES THE FIRE RATING OF THESE ITEMS, THE CONTRACTOR SHALL SEAL OPENINGS WITH CODE APPROVED FIRE STOPPING MATERIAL TO RE-ESTABLISH THE ORIGINAL RATE OF PARTITION.
- WHERE FEEDERS OR BRANCH CIRCUITS ARE DISCONNECTED AND REMOVED FROM EXISTING PANEL BOARDS, CONTRACTOR SHALL MARK THE AFFECTED BREAKERS IN THOSE PANEL BOARDS AS "SPARE". INSTALL NEW KNOCK-OUT BLANK INSERT IN PANEL BOX.
- CONTRACTOR IS TO PERFORM DEMOLITION WORK IN A NEAT, SKILLFUL, AND CAREFUL MANNER SO AS NOT TO DAMAGE OR DEFACE EXISTING CONSTRUCTION THAT IS TO REMAIN.
- VERIFY THAT REMOVAL OF DEVICES IN RENOVATED AREA DOES NOT AFFECT DEVICES IN OTHER AREAS THAT MAY BE FED FROM THE CIRCUIT BEING DISCONNECTED. BYPASS RACEWAY AND WIRING AS REQUIRED TO KEEP REMAINING DEVICES OPERATIONAL.
- ALL ABANDONED AND/OR UNUSED COMPONENTS CREATED OR EXPOSED DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO CABLES, WIRING, RACEWAY, J-BOXES AND ASSOCIATED SUPPORTS AND OR ATTACHMENTS SHALL BE REMOVED.
- RETAIN EXISTING CONDUIT, JUNCTION BOXES, AND CIRCUITING AS APPLICABLE WHEN IT MAKE SENSE, AND WHEN IN GOOD CONDITIONS.
- REMOVE ALL LOW VOLTAGE CABLING INDICATED UNDER DEMOLITION BACK TO THE SOURCE. ALL CABLING, HANGERS, TIES AND CONDUIT ARE TO BE REMOVED ENTIRELY. PROVIDE NEW CABLING, JACKS & COVER PLATES FOR ALL VOICE/DATA OUTLETS. CONFIRM CABLING REQUIREMENTS WITH OWNER.



1 FLOOR PLAN - ELECTRICAL DEMOLITION
 1/8" = 1'-0"
 0' 1' 2' 5' 10' 20'



ELECTRICAL PLAN NOTES

- 1 FURNISH AND INSTALL NEW RECEPTACLE AND CONNECT TO EXISTING PANEL AND SPARE OR NEW BREAKER AS INDICATED.
- 2 RECESSED MOUNTED TV WALL BOX WITH INTEGRALLY MOUNTED RECEPTACLE AND OPENING FOR TV CABLES.
- 3 WORK IN THIS BOXED AREA SHALL BE PART OF A FUTURE PHASE. SHOWN ONLY FOR REFERENCE AND COORDINATION WITH THIS PROJECT.
- 4 **IEC62021 SWITCHED RECEPTACLES:**
FURNISH AND INSTALL POWER PACK RELAY RATED AT: 20A-120V-SINGLE POLE OR TWO POLE FOR MULTIPLE CIRCUITS TO CONTROL SWITCHED RECEPTACLES. POWER PACK SHALL BE INTERCONNECTED WITH OCCUPANCY SENSOR IN ROOM/AREA (SEE LIGHTING PLAN) CONNECT 50% OF THE RECEPTACLES IN THE ROOM VIA POWER PACK TO TURN OFF WHEN THERE IS NOT ACTIVITY IN THE ROOM/AREA. PROVIDE RECEPTACLES THAT ARE TAGGED WITH THE ICON (I-O) FOR IDENTIFICATION. FOR EVERY QUAD LOCATION SWITCH ONE DUPLEX. FOR EVERY DUPLEX SWITCH ONE OUTLET. CONTRACTOR HAS THE OPTION OF USING WIRELESS RECEPTACLE DEVICES WITH INTEGRALLY MOUNTED RELAY AND COMPATIBLE LIGHTING OCCUPANCY SENSOR IN ORDER TO MINIMIZE COST.
- 5 FURNISH AND INSTALL NEW FIRE ALARM DEVICE COMPATIBLE WITH THE EXISTING FIRE ALARM (FA) SYSTEM SERVING THE BUILDING AND CONNECT FOR A COMPLETE INSTALLATION AND OPERATING SYSTEM.
- 6 FURNISH AND INSTALL NEW RECEPTACLE(S) AND CONNECT TO EXISTING CIRCUIT SERVING AREA/PREVIOUSLY ON WITH SUFFICIENT SPARE CAPACITY. MATCH EXISTING WIRING AND RACEWAY SIZE AND TYPE CURRENTLY BEING USED.
- 7 ELECTRICAL DEVICES IN THIS AREA ARE EXISTING TO REMAIN.

ALL DEVICES ARE CONNECTED FROM EXISTING OFFICE PANEL "LP-2B" UNLESS OTHERWISE INDICATED.

LEGEND

- X - EXISTING DEVICE TO REMAIN
- XO - EXISTING DEVICE TO BE REMOVED
- XRR - EXISTING DEVICE TO BE REMOVED AND RELOCATED
- XR - EXISTING DEVICE RELOCATED
- N - NEW DEVICE

1 FLOOR PLAN - ELECTRICAL PROPOSED
1/8" = 1'-0"
0' 1' 2' 5' 10' 20'



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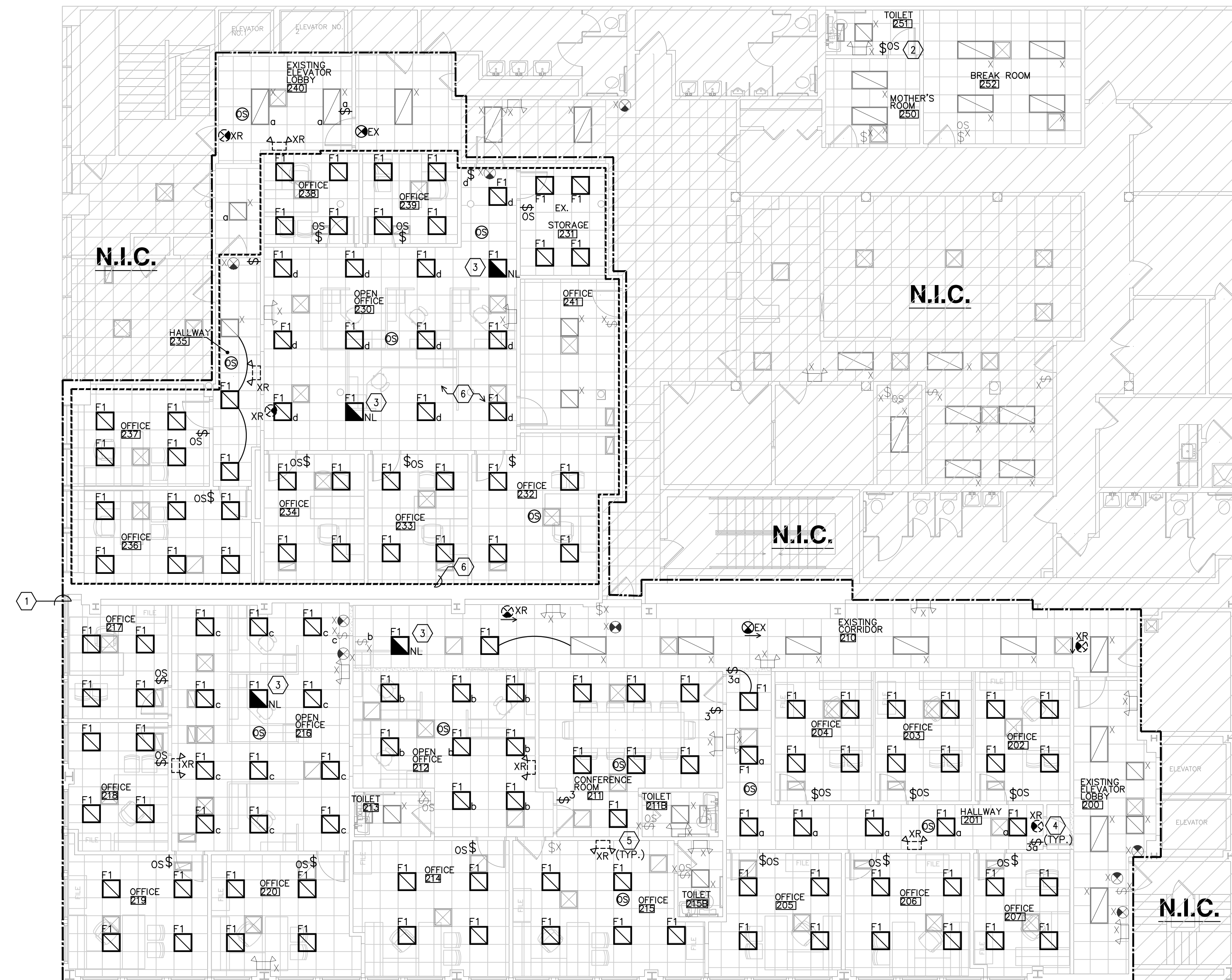
DATE: 04-28-25; EXP: 11-30-25

ELECTRICAL PLAN NOTES

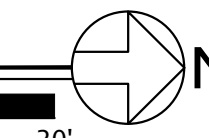
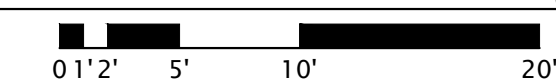
- 1 FURNISH AND INSTALL NEW LIGHT FIXTURE(S) AND CONNECT TO EXISTING LIGHTING CIRCUIT SERVING AREA WITH SUFFICIENT SPARE CAPACITY TO CONNECT THE NEW LOAD AND TO OPERATE AS INDICATED. MATCH EXISTING WIRING AND RACEWAY SIZE AND TYPE CURRENTLY BEING USED. MODIFY WIRING AS REQUIRED TO ACHIEVE CONTROL AS SHOWN. FURNISH AND INSTALL NEW PANEL CARD DIRECTORY WITH COMPUTER WRITTEN UPDATED PANEL CARD DIRECTORY REFLECTING THE NEW INSTALLATIONS WITH UPDATED ROOM NAMES AND NUMBERS.
2 FURNISH AND INSTALL NEW MANUAL SWITCH OCCUPANCY SENSOR STYLE (MANUAL ON - VACANCY OFF) AND CONNECT TO LIGHT FIXTURE IN ROOM. PROVIDE LOW VOLTAGE SWITCH TO FACILITATE INTERFACING WITH POWER PACK RELAY SERVING 50% SWITCHED OUTLETS.
3 CONNECT LIGHT FIXTURE TO EXISTING NIGHT LIGHT CIRCUIT SERVING AREA WITH SUFFICIENT SPARE CAPACITY TO CONNECT THE NEW LOAD. MATCH EXISTING WIRING AND RACEWAY SIZE AND TYPE CURRENTLY BEING USED.
4 FURNISH AND INSTALL NEW & RELOCATED EXIT SIGN WITH BATTERY BACK UP & RE-CONNECT TO EXISTING EXIT SIGN CIRCUIT SERVING AREA/PREVIOUSLY ON. PROVIDE LOCK OUT IN BREAKER TO PREVENT FROM TAMPERING.
5 RE-INSTALL RELOCATED EMERGENCY LIGHT WITH BATTERY BACK UP AND CONNECT TO LINE SIDE OF LIGHTING CIRCUIT SERVING ROOM/AREA. REPLACE BATTERY.
6 WORK IN THIS BOXED AREA SHALL BE PART OF A FUTURE PHASE. SHOWN ONLY FOR REFERENCE AND COORDINATION WITH THIS PROJECT.

LEGEND

- X - EXISTING DEVICE TO REMAIN
XO - EXISTING DEVICE TO BE REMOVED
XRR - EXISTING DEVICE TO BE REMOVED AND RELOCATED
XR - EXISTING DEVICE RELOCATED
N - NEW DEVICE



1 FLOOR PLAN - LIGHTING PROPOSED
1/8" = 1'-0"



stromstand + de young + prybys
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FLOOR PLAN - LIGHTING PROPOSED

STATES ATTORNEY OFFICE REMODELING
WILL COUNTY STATE'S ATTORNEY
WILL COUNTY COURT ANNEX - LEVEL 2
57 N. OTTAWA STREET
JOLIET, ILLINOIS

DATE: 04-28-25
REVISED:

PROJECT NO. 2411-01

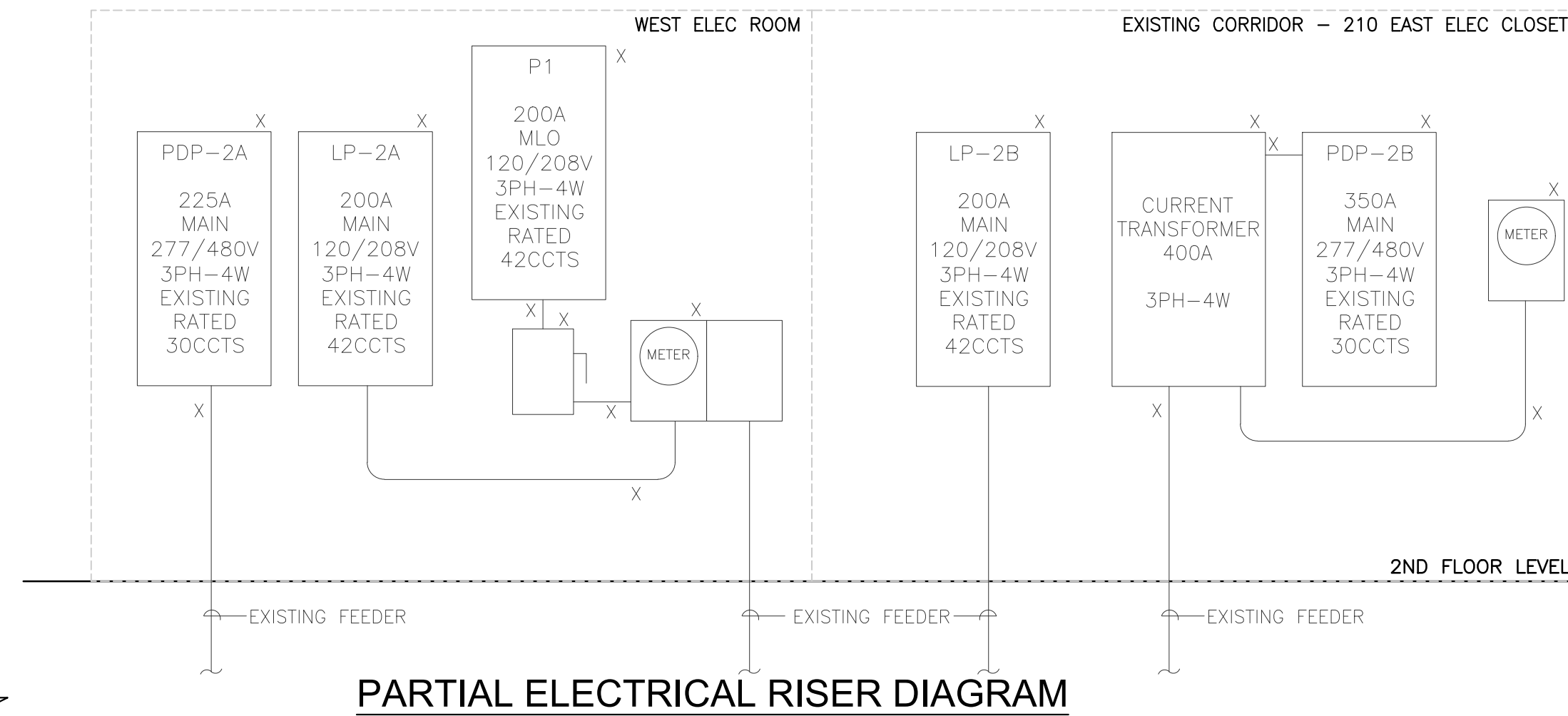
SHEET NUMBER

EL1.0

4 OF 7 SHEETS

EXISTING PANEL NOTES: E.C. MUST PERFORM THIS WORK

- ELECTRICAL CONTRACTOR SHALL TRACE AND FIELD VERIFY EXACT CIRCUIT NUMBER INFORMATION PRIOR TO CONNECT CIRCUITS TO THE PANEL. CIRCUIT NUMBER INFORMATION AND DESCRIPTIONS HAVE BEEN GIVEN ONLY FOR INFORMATION PURPOSES BASED ON EXISTING PANEL CARD DIRECTORY AND SURVEY. E.C. MUST MODIFY CIRCUIT PANEL CONNECTIONS AND LABELING INFORMATION TO MATCH THE NEW ROOM NAMES.
- ELECTRICAL CONTRACTOR SHALL PROVIDE NEW UPDATED PANEL CARD DIRECTORIES AFTER ALL CONNECTIONS HAVE BEEN COMPLETED. EXISTING PANEL'S MARKER WRITING SHALL BE CLEANED SO THAT NOT MARKER WRITING IS VISIBLE. ALL NOT VALID INFORMATION SHALL BE DELETED.
- UTILIZE EXISTING EMPTY CIRCUITS/MODIFY CIRCUIT INFORMATION GIVEN AS REQUIRED FOR CONNECTION OF LOADS.
- PROVIDE UPDATED RECORD DOCUMENTS AFTER CONSTRUCTION IS DONE FOR FUTURE USE. FURNISH AND INSTALL NEW CARD DIRECTORIES WITH UPDATED INFORMATION.
- FURNISH AND INSTALL NEW BREAKERS AS REQUIRED.
- ALL RECEPTACLE OUTLETS SHALL BE PROVIDED W/ P-TOUCH LABEL WITH CIRCUIT # AND SOURCE PANEL TAGS.



LEGEND

- X - EXISTING DEVICE TO REMAIN
- XO - EXISTING DEVICE TO BE REMOVED
- XRR - EXISTING DEVICE TO BE REMOVED AND RELOCATED
- XR - EXISTING DEVICE RELOCATED
- N - NEW DEVICE



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PARTIAL ELECTRICAL RISER DIAGRAM & PANEL SCHEDULES

STATES ATTORNEY OFFICE REMODELING
 WILL COUNTY STATE'S ATTORNEY
 WILL COUNTY COURT ANNEX - LEVEL 2
 57 N. OTTAWA STREET
 JOLIET, ILLINOIS

DATE: 04-28-25
 REVISED:

PROJECT NO.
 2411-01

SHEET NUMBER

E2.0

5 OF 7 SHEETS

EXISTING PANEL "P2"

PANEL: P2		FRAME SIZE: 200A		VOLTAGE: 120/208							
LOCATION: ELEC ROOM		MAIN: 200A		PHASE: 1φ							
FEEDER: SEE RISER FOR INFORMATION		AIC: EXISTING RATING		WIRE: 3W							
CKT NO.	BR P	FAULT C.B.	CIRCUIT DESCRIPTION	PHASE A	PHASE B	PHASE C	CIRCUIT DESCRIPTION	FAULT C.B.	BR P	CKT NO.	
1	1	-	SPACE							2	
3	1	-	SPACE				MAIN			4	
5	2	-	SE BASEBOARD				DUCT HEATER			6	
7	2	-	SN BASEBOARD							8	
9	2	-	SN BASEBOARD							10	
11	2	-	SN BASEBOARD							12	
13	1	-	SPACE				SPACE			14	
15	1	-								16	
17	1	-								18	
19	1	-								20	
21	1	-								22	
23	1	-								24	
25	1	-								26	
27	1	-								28	
29	1	-								30	
TOTAL CONNECTED LOADS (VA)				####	####	####	####				
TOTAL CONNECTED LOADS (VA)				####	####	####	####				
TOTAL AMPERAGE				####	####	####	####	-L.O. LOCK OUT			

EXISTING PANEL "PDP-2A"

PANEL: PDP-2A		FRAME SIZE: 225A		VOLTAGE: 277 / 480							
LOCATION: WEST ELEC ROOM		MAIN: 225A		PHASE: 3φ							
FEEDER: SEE RISER		AIC: EXISTING RATING		WIRE: 4W							
CKT NO.	BR P	FAULT C.B.	CIRCUIT DESCRIPTION	PHASE A	PHASE B	PHASE C	CIRCUIT DESCRIPTION	FAULT C.B.	BR P	CKT NO.	
1	1	-								2	
3	3	-	ELECTRIC WATER HEATER WH-2				ELECTRIC WATER HEATER WH-3			4	
5	3	-								6	
7	3	-	AIR HANDLER UNIT AH2-1 IN MECH ROOM 212				EXHAUST FAN EF2-1			8	
9	3	-								10	
11	3	-								12	
13	20	1	NEW BB-1	1000			BSSD HTRS - 208, 210, 211			14	
15	1	-	SPACE				KITCH 202, 203			16	
17	1	-					SPARE			18	
19	1	-					SPARE			20	
21	1	-					SPARE			22	
23	1	-					SPARE			24	
25	1	-								26	
27	1	-								28	
29	1	-								30	
TOTAL CONNECTED LOADS (VA)				1000	###	###	###				
TOTAL CONNECTED LOADS (VA)				###	###	###	###	GFI BREAKER -L.O. LOCK OUT			
TOTAL AMPERAGE				###	###	###	###				

EXISTING PANEL "LP-2A"

PANEL: LP-2A		FRAME SIZE: 200A		VOLTAGE: 120/208							
LOCATION: WEST ELEC ROOM		MAIN: 200A		PHASE: 3φ							
FEEDER: SEE RISER		AIC: EXISTING RATING		WIRE: 4W							
CKT NO.	BR P	FAULT C.B.	CIRCUIT DESCRIPTION	PHASE A	PHASE B	PHASE C	CIRCUIT DESCRIPTION	FAULT C.B.	BR P	CKT NO.	
1	20	1	LTG WATING 201 & EMERGENCY EXIT LIGHT				LTG-STAF LOUN 220, JAN, MENS & EF			2	
3	20	1	LTG REST, WAIT, SECY, TOILET, PASS				LTG PUBLIC COUNTER 213 AND OFFICES			4	
5	20	1	LTG - JUDGES, OFFICES, MECH & EF				LTG WOMEN 225 OFFICE 221 222, STORAGE			6	
7	20	1	RECEP WOMAN, MENS & TOILET				RECEP - COPIER IN SECRETARY 208			8	
9	20	1	RECEP WAITING & EWC				RECEP-JUDGES CHAMBER 208			10	
11	20	1	RECEP - SECY 206				RECEP OFFICE 210			12	
13	20	1	RECEP SATFF LOUNGE 220				RECEPT - OFFICE 211			14	
15	20	1	RECEP STAFF LOUNGE				RECEPT MENCH 212, PASSAGE & LOUNGE			16	
17	20	1	RECEP STAFF LOUNGE REFRI				RECEPS OFFICE 221 & 222			18	
19	20	1	RECEP JAN 219, WOMAN & MENS				RECEP OFFICE 215			20	
21	20	1	RECP STORAGE 223 & SUPV OFFICE				RECEP OFFICE 214 & WAITING			22	
23	20	1	RECEP VIEWINF 224				RECEP OFFICE 216 & PASSAGE			24	
25	20	1					RECEP OFFICE 217			26	
27	20	1	RECEP-PUBLIC COUNTER 213 WEST DESK							28	
29	20	1	RECEP-PUBLIC COUNTER 213 EAST DESK							30	
31	20	1								32	
33	1	-	SPACE				SPACE			34	
35	1	-								36	
37	1	-								38	
39	1	-								40	
41	1	-								42	
TOTAL CONNECTED LOADS (VA)				###	###	###	###	GFI BREAKER -L.O. LOCK OUT			
TOTAL CONNECTED LOADS (VA)				###	###	###	###				
TOTAL AMPERAGE				###	###	###	###				

EXISTING PANEL "P1"

PANEL: P1		FRAME SIZE: 200A		VOLTAGE: 120/208							
LOCATION: ELEC ROOM		MAIN: 200A		PHASE: 3φ							
FEEDER: SEE RISER		AIC: EXISTING RATING		WIRE: 4W							
CKT NO.	BR P	FAULT C.B.	CIRCUIT DESCRIPTION	PHASE A	PHASE B	PHASE C	CIRCUIT DESCRIPTION	FAULT C.B.	BR P	CKT NO.	
1	20	1	DEDICATED JUDGES				EMERGENCY CIRCUIT			2	
3	20	1	DEDICATED CIRCUIT				LIGHTS IN JUDGES			4	
5	20	1	OFFICES 238 & 239 - RECEPTACLES			1260	WASHROOM - JUDGES OUTLETS			6	
7	20	1	OPEN OFFICE 230 - FURNITURE PARTITIONS	1200			SPARE			8	
9	20	1	OFFICE 232 - RECEPTACLES		360		LIGHTS IN ATTORNEYS OFFICES			10	
11	20	1	DEDICATED CIRCUIT OFFICE				OUTLETS IN COURTROOM			12	
13	20	1	OUTLETS JUDGES + LAWYER TABLES				LIGHTS COURT ROOM			14	
15	20	1	DEDICATED CIRCUIT				LIGHTS COURT ROOM			16	
17	20	1	OUTLETS				CANS IN CENTER OF COURT ROOM			18	
19	20	1	OUTLET DEPUTYS OFFICE				CANS IN PERMITER			20	
21	20	1	OUTLET DEPUTYS OFFICE				SPARE			22	
23	20	1	LIGHTS UN DEPUTYS OFFICE				EXHAUST FAN			24	
25	20	1					SPARE			26	
27	20	1	WATER COOLER UN HALLWAY				SPARE			28	
29	1	-	SPACE				SPACE			30	
TOTAL CONNECTED LOADS (VA)				1200	###	360	###	1260	###	GFI BREAKER -L.O. LOCK OUT	
TOTAL CONNECTED LOADS (VA)				###	###	###	###				
TOTAL AMPERAGE				###	###	###	###				

EXISTING PANEL "PDP-2B"

PANEL: PDP-2B		FRAME SIZE: 200A		VOLTAGE: 480 / 277								
LOCATION: EXISTING CORRIDOR 210 (EAST ELEC CLOSET)		MAIN: 200A		PHASE: 3φ								
FEEDER: SEE RISER		AIC: EXISTING RATING		WIRE: 4W								
CKT NO.	BR P	FAULT C.B.	CIRCUIT DESCRIPTION	PHASE A	PHASE B	PHASE C	CIRCUIT DESCRIPTION	FAULT C.B.	BR P	CKT NO.		
1	1	-								2		
3	60	3	AIR HANDLING UNIT AH2-2 IN MECH RR0M 238				FEED TO 30KVA TR-2B			4		
5	3	-								6		
7	3	-								8		
9	15	3	EXHAUST FAN EF2-2				ELECTRIC WATER HEATER WH-4 IN JANITOR			10		
11	3	-								12		
13	20	1	ELECT BASE BOARD HETAERS COURTROOM				ELECT BASEBOARD HEATER COURTRM			14		
15	20	1	ELECT BASEBOARD HEATER COURT ROOM				ELEC BASEBOARD NE STAIR			16		
17	20	1	ELECT BASEBOARD HEATERS JUDGES CHAM				NEW BB-1			18		
19	1	-	SPACE	1800			NEW WAV-1			20		
21	1	-					SPACE			22		
23	1	-								24		
25	1	-								26		
27	1	-								28		
29	1	-								30		
TOTAL CONNECTED LOADS (VA)				###	1800	###	###	1000	GFI BREAKER -L.O. LOCK OUT			
TOTAL CONNECTED LOADS (VA)				###	###	###	###					
TOTAL AMPERAGE				###	###	###	1000					

EXISTING PANEL "LP-2B"

PANEL: LP-2B		FRAME SIZE: 200A		VOLTAGE: 120 / 208							
LOCATION: EXISTING CORRIDOR 210 (EAST ELEC CLOSET)		MAIN: 100A		PHASE: 3φ							
FEEDER: SEE RISER		AIC: EXISTING RATING		WIRE: 4W							
CKT NO.	BR P	FAULT C.B.	CIRCUIT DESCRIPTION	PHASE A	PHASE B	PHASE C	CIRCUIT DESCRIPTION	FAULT C.B.	BR P	CKT NO.	
1	20	1	LTG - COURTROOM 227				LTG-OPEN OFFICE 225, 229 - 230			2	
3	20	1	LTG-COURTROOM 227				LTG ROOMS 231, 232, 233			4	
5	20	1	LTG WAITING 235 ELEV LOBBY				LTG - COURTRM 236 PERIMETER			6	
7	20	1	OFFICE 217 & 218 - RECEPTACLES	900			LTG-COURTRM 236			8	
9	20	1	OPEN OFFICE 216 - RECEPTACLES		540		RECEP-COURTRM 227			10	
11	20	1	OFFICE 219 & 220 - RECEPTACLES			720	RECEP - COPIER IN OPEN OFFICE 228			12	
13	20	1	CONFERENCE ROOM - RECEPTACLES & FB	900	800		RECEP- WAITING 235, 237 238 & PUMP			14	
15	20	1	RECEP - JUDGES CHAMPERS 229				RECEP TOILET 232, 231 & 236			16	
17	20	1	OFFICE 215 - RECEPTACLES			900	1080	OFFICE 203 & 204 - RECEPTACLES		18	
19	20	1	OFFICE 205 & 206 - RECEPTACLES	720			RECEP-ELECTRICAL CLOSET			20	
21	20	1	OFFICE 202 & 207 - RECEPTACLES		720					22	
23	20	1	RM 236 AV RACK							24	
25	20	1	RM 227 AV RACK	1200			OPEN OFFICE 216 - FURNITURE PARTITIONS			26	
27	1	-	SPACE			1200	OPEN OFFICE 212 - FURNITURE PARTITIONS			28	
29	1	-					SPACE			30	
31	1	-								32	
33	1	-								34	
35	1	-								36	
37	1	-								38	
39	1	-								40	
41	1	-								42	
TOTAL CONNECTED LOADS (VA)				2520	2000	1260	1200	1620	1080	GFI BREAKER -L.O. LOCK OUT	
TOTAL CONNECTED LOADS (VA)				4520	2460	2700					
TOTAL AMPERAGE				26.87							

PANEL NOTES

- FURNISH AND INSTALL NEW THERMO-MAGNETIC BREAKER COMPATIBLE WITH THE EXISTING PANEL. MATCH EXISTING MANUFACTURER AND AIC RATING CURRENTLY BEING USED.

©DWG/FULLNAME/EXT

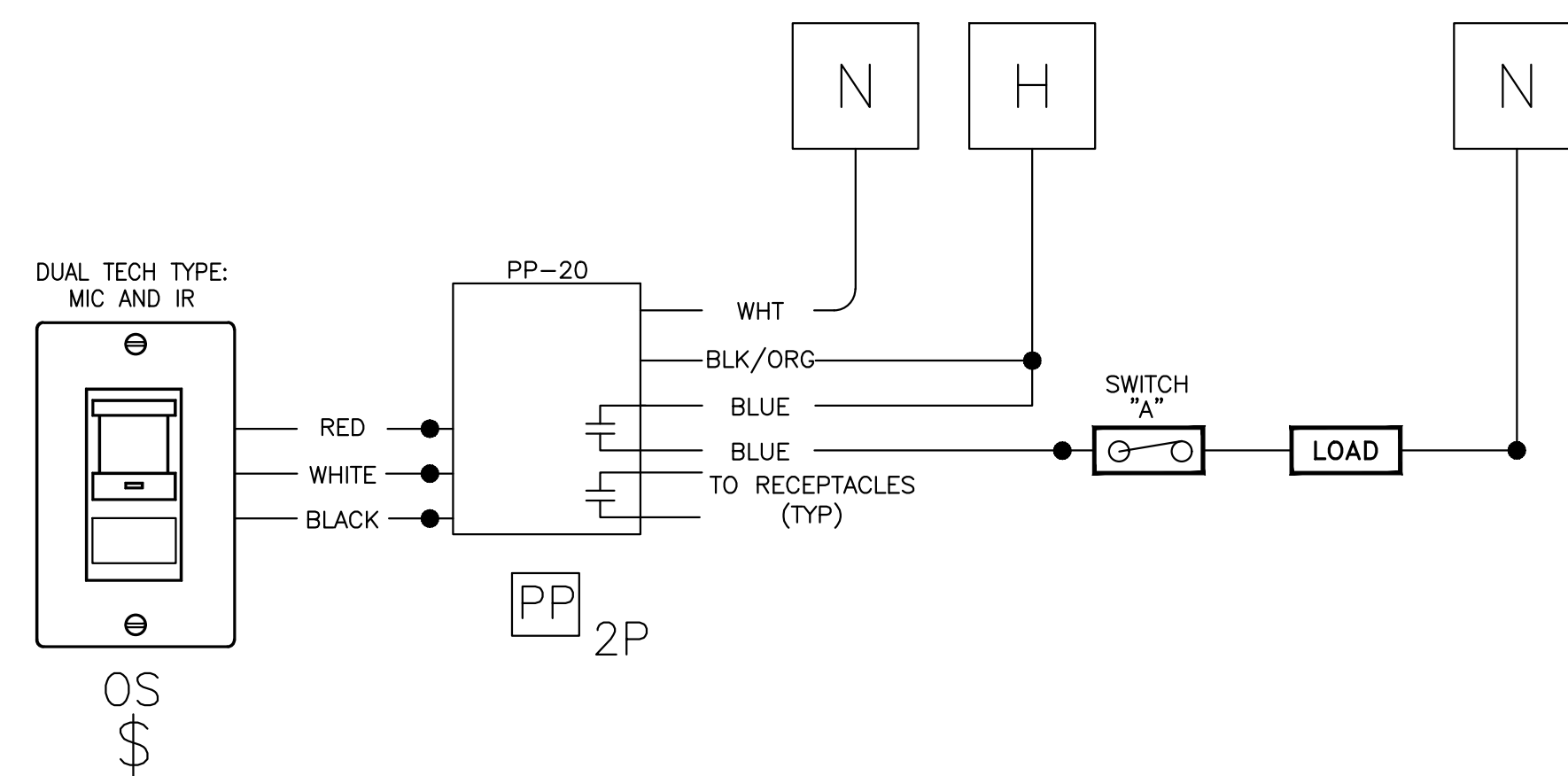
LIGHTING FIXTURE SCHEDULE (PROVIDE SPECIFIED OR APPROVED EQUAL)

ELECT FIXTURE TAG	SYMBOL	MANUFACTURER	MODEL NUMBER	LAMPS	VOLTAGE	WATTAGE	MOUNTING	NOTES
F1	◻	HUBBELL COOPER LITHONIA	SIMILAR TO PORTOR LIGHTING: PT-BLP6-22-3CP	LED 3250/3810/4960lm 4000K-80CRI	120-277V	30W	RECESSED	2x2 LED SWITCHABLE PANEL
EX	⊗	LITHONIA COOPER HUBBELL	EXIT SIGN 90MIN BATTERY BACK UP	LED	120V-277V	5W	WALL/CEILING	LED EXIT SIGN BATTERY SHALL PROVIDE 90MIN OF ILLUMINATION.

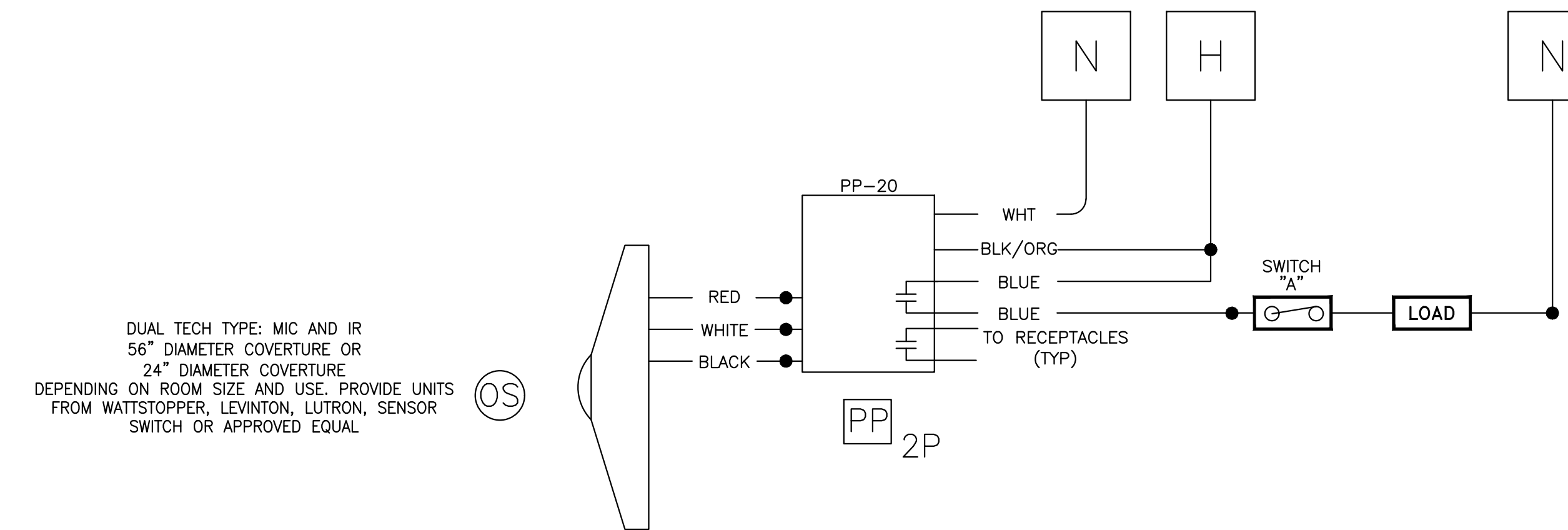
LIGHTING FIXTURE SCHEDULE NOTES:

1. PROVIDE ALL NECESSARY ACCESSORIES FOR COMPLETE INSTALLATION AND OPERATION SYSTEM.
2. VERIFY COLOR TEMPERATURE OF ALL FIXTURES WITH ARCHITECT PRIOR TO ORDERING.
3. VERIFY EXACT FINISH AND COLOR WITH ARCHITECT AND OWNER PRIOR TO ORDERING.

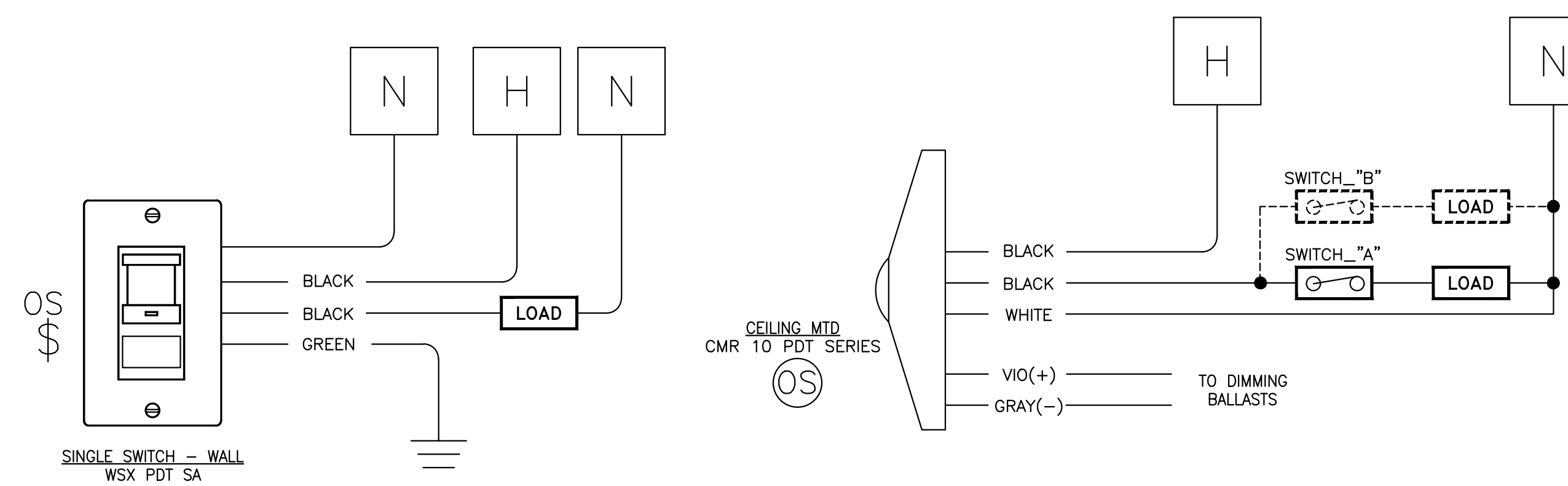
ALL MANUAL OCCUPANCY SENSORS SHALL BE
MANUAL ON, VACANCY OFF AS REQUIRED
BY IECC2021 UNLESS OTHERWISE INDICATED
STRICTLY IN THE DRAWINGS.
(OVER-RIDE DEVICES REQUIRED)



1 WALL MTD. LOW VOLTAGE OCC. SENSORS (TYPICAL)
SCALE: NTS



2 CEILING MTD. LOW VOLTAGE OCC. SENSORS (TYPICAL)
SCALE: NTS



3 WALL & CLG MTD. LINE VOLTAGE OCC. SENSORS (TYP)
SCALE: NTS



MGH Consulting Engineers, LLC

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Illinois Professional Design Firm License #184.007392-0002



DATE:04-28-25 EXP:11-30-25

stromsland + de young + prybys
ARCHITECTURE GROUP
280 Veterans Parkway - 201
New Lenox, Illinois 60451
815-727-1311
L.N.: 184-00437
www.sdpagroup.com

ELECTRICAL SPECIFICATION SHEET

STATES ATTORNEY OFFICE REMODELING
WILL COUNTY STATE'S ATTORNEY
WILL COUNTY COURT ANNEX - LEVEL 2
57 N. COTTAWA STREET
JOLIET, ILLINOIS

DATE: 04-28-25
REVISED:

PROJECT NO.
2411-01

SHEET NUMBER

E4.0

7 OF 7 SHEETS

C. INSTALLATION (VERIFY WITH G.C./MEANS AND METHODS SHOULD BE APPROVED BY GC AND ARCHITECT):

- CUTTING AND PATCHING:
 - ALL CUTTING, DRILLING, PATCHING, ETC. NECESSARY FOR INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT SHALL BE DONE BY THIS CONTRACTOR.
 - ALL DISTURBED CONSTRUCTION AND FINISHED SHALL BE RETURNED TO ITS ORIGINAL STATE. HOLES IN CONCRETE WALLS AND FLOORS SHALL BE CORE DRILLED AND SLEEVED. NO CUTTING OF STRUCTURAL MEMBERS WILL BE ALLOWED.
- INSTALLATION OF WORK:
 - THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THE SAFETY OF THE OWNERS EMPLOYEES, BUILDING EMPLOYEES AND GUESTS, AS WELL AS THEIR OWN FORCES, BY ADEQUATELY PROTECTING ANY EXPOSED LIVE CONDUCTORS, OR DEVICES THROUGHOUT THE COURSE OF THIS WORK.
 - WIRE SHALL BE INSTALLED CONTINUOUS BETWEEN DEVICES, WITH SPLICES LOCATED ONLY IN JUNCTION BOXES, PULL BOXES, OUTLET BOXES OR IN CABINETS. CONDUCTORS SHALL BE OF SUFFICIENT LENGTH TO REACH THE FARTHEST TERMINAL IN PANELS. A MINIMUM OF 6" LOOPS SHALL REMAIN WHERE CONNECTIONS OR TAPS ARE TO BE MADE IN BRANCH CIRCUIT WIRING.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR EXACT LOCATION OF ALL EQUIPMENT AND IN CASE ANY OUTLETS DO NOT COME IN CORRECT LOCATION, HE SHALL MOVE SAME, DO NECESSARY CUTTING AND PATCHING.
 - OWNER RESERVES THE RIGHT TO CHANGE LOCATION OF OUTLETS WITHIN 10'-0" RADIUS BEFORE WORK IS INSTALLED WITHOUT EXTRA COST.
 - CHECK WITH HVAC CONTRACTOR AS TO LOCATION OF PIPING, DUCTS AND GRILLES AND PLUMBING CONTRACTOR AS TO LOCATION OF PIPING BEFORE INSTALLING THE WORK.
 - CONTRACTOR SHALL CONSULT WITH THE ARCHITECT AND REVIEW THE PLANS TO VERIFY THE EXACT LOCATIONS OF ALL OUTLETS ARE ABOVE COUNTERS WHERE CABINET WORK OCCURS, AND VERIFY THAT SWITCHES ARE AT THE CORRECT SIDE OF DOOR SWINGS.
 - THE CONTRACTOR SHALL CONSULT WITH THE EQUIPMENT SUPPLIERS FOR THE CORRECT SIZES OF ALL OUTLETS IN SUFFICIENT TIME BEFORE WALL CONSTRUCTION.
 - FAILURE OF THE CONTRACTOR TO COMPLY WITH ALL OF THE ABOVE SHALL MAKE HIM/HER RESPONSIBLE FOR ANY RELOCATIONS AT HIS EXPENSE DUE TO COMPLIANCE WITH OTHER EQUIPMENT.
- GROUNDING:
 - CONTRACTOR SHALL INSTALL ENTIRE CONDUIT SYSTEM, INCLUDING BOXES, CABINETS, PANELS, ETC. SO AS TO INSURE PROPER GROUND CONTINUITY THROUGHOUT THE SYSTEM WHICH INCLUDES BUT IS NOT LIMITED TO: PROVIDE COMPLETE WIRE GROUNDING CONDUCTOR SYSTEM, #12 AWG MINIMUM, SIZED AND INSTALLED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE CODE.
 - ALL DEVICES SHALL BE BONDED TO THE CONDUIT SYSTEM. USE A BONDING JUMPER BETWEEN THE OUTLET BOX AND THE DEVICE GROUNDING TERMINAL. METAL-JET METAL JUNCTION CONTACT BETWEEN THE DEVICES YOKE AND THE OUTLET BOX IS NOT SUFFICIENT AND IS NOT ACCEPTABLE AS A BOND FOR EITHER SURFACE MOUNTED BOXES OR FLUSH TYPE BOXES. ALL JUNCTION BOXES, OUTLET BOXES AND PULL BOXES SHALL BE BONDED TO THE CONDUIT SYSTEM. ALL CONDUIT, INCLUDING FLEXIBLE CONDUIT, SHALL BE GROUNDING WITH GREEN GROUNDING CONDUCTOR.
 - ALL ENCLOSURES AND NON-CURRENT CARRYING METAL PARTS ARE TO BE GROUNDING. CONDUIT SYSTEM IS TO BE ELECTRICALLY CONTINUOUS. ALL LOCK NUTS MUST BE CUT THROUGH ENAMELED OR PAINTED SURFACES ON ENCLOSURES. WHERE ENCLOSURES AND NON-CURRENT CARRYING METAL PARTS ARE ISOLATED FROM THE CONDUIT SYSTEM, USE BONDING JUMPERS WITH APPROVED CLAMPS. ALL GROUND CLAMPS SHALL BE "PEN-UNION" OR EQUAL, SIMILAR TO "GPL" TYPE.
 - THE COMPLETE ELECTRICAL INSTALLATION SHALL BE PERMANENTLY AND EFFECTIVELY GROUNDING IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODE. EQUIPMENT GROUNDING SYSTEM CABLE SHALL BE COPPER.
 - EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL RACEWAYS AND ENCLOSURES WITHIN THE BUILDING.
 - ACCESSIBLE GROUNDING CONNECTIONS SHALL BE BOLTED OR CLAMP TYPE UNLESS OTHERWISE INDICATED. SOLDERED CONNECTIONS WILL NOT BE PERMITTED IN THE GROUNDING SYSTEM.
- FIRE STOPPING (MEANS AND METHODS- SHOULD BE APPROVED BY G.C. AND ARCHITECT)
 - ALL PENETRATIONS IN WALL, FLOOR OR CEILINGS SHALL BE SUITABLY CLOSED UP AND SEALED. ALL FIRE STOPPING COMPOUND LISTED IN THE MOST RECENT FACTORY RESEARCH. FIRE STOPPING PRODUCTS SHALL BE MANUFACTURED BY 3M CO.
- ELECTRICAL CONNECTIONS
 - ALL WIRE CONNECTIONS SHALL BE MADE BY MEANS OF SOLDERLESS CONNECTORS.
 - JOINT AND SPLICES SHALL BE COVERED WITH 3M ELECTRICAL TAPE TO 150% OF INSULATION VALUE.
 - NO SPLICES SHALL BE MADE IN THE CONDUCTOR EXCEPT AT OUTLET BOXES, JUNCTION BOXES, OR IN SPLICE BOXES.
- EQUIPMENT CONNECTIONS
 - PROVIDE FINAL CONNECTIONS FOR ALL EQUIPMENT FURNISHED UNDER OTHER DIVISIONS AND FOR ALL OWNER FURNISHED EQUIPMENT. PROVIDE A FLEXIBLE LIQUID TIGHT CONNECTO TO ALL VIBRATION PRODUCING EQUIPMENT.
 - THE CONTRACTOR SHALL MAKE POWER CONNECTIONS TO ALL MOTORS AND EQUIPMENT FURNISHED BY OTHERS. SEE ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS, AND DRAWING NOTES FOR ADDITIONAL INFORMATION.
 - ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.
 - ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS' LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
 - ALL DEVICES INSTALLED OUTSIDE OR IN DAMP LOCATIONS SHALL BE APPROVED WEATHERPROOF RATED.
 - CONTRACTOR SHALL INSTALL ALL CONDUITS AND WIRES WITH A MINIMUM NUMBER OF BENDS AND IN SUCH A MANNER AS TO CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEAD ROOM, KEEP OPENINGS AND PASSAGeways CLEAR AND MEET ALL STRUCTURAL CODE REQUIREMENTS.
- BRANCH CIRCUITS TO RECEPTACLES, LIGHTING AND MISC. SMALL LOADS (20 AMP CIRCUITS), UNLESS SPECIFICALLY NOTED OTHERWISE, SHALL BE 2-#12, 1-#12G, 3/4" C.
- CONTRACTOR SHALL INSTALL ALL EQUIPMENT, WIRE AND CABLE FURNISHED TO HIM, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL INSTALLATION DRAWINGS AND WIRING DIAGRAMS FROM THE EQUIPMENT MANUFACTURER. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- CONTRACTOR SHALL MAKE FINAL CONNECTIONS AND TERMINATIONS TO THE OWNER, MECHANICAL, AND PLUMBING CONTRACTOR'S FURNISHED EQUIPMENT.

12. TESTING AND INSPECTION:
a. THE ELECTRICAL CONTRACTOR SHALL THOROUGHLY TEST THE ENTIRE ELECTRICAL SYSTEM FOR GROUNDS, SHORTS AND PROPER GROUNDING RESISTANCE. A MAXIMUM OF 25 OHMS RESISTANCE FROM NEUTRAL CONDUCTOR AND CONDUIT TO EARTH GROUND SHALL BE PERMITTED. ONLY A GROUND RESISTANCE MEASURING METER OF APPROVED TYPE SHALL BE USED. A COMMON OHM METER IS NOT ACCEPTABLE.
b. THE ELECTRICAL CONTRACTOR SHALL SEE THAT LOCAL INSPECTION AUTHORITIES ARE NOTIFIED WHEN INSPECTIONS ARE REQUIRED BY CODE AND SHALL GIVE ALL NECESSARY ASSISTANCE TO THE INSPECTOR WHEN HE IS MAKING AN INSPECTION.
c. THE ELECTRICAL CONTRACTOR WILL INSPECT ALL REGULATIONS HAVING JURISDICTION ON THIS PROJECT.
d. THE ENTIRE WIRING SYSTEM SHALL BE TESTED FOR SHORT CIRCUITS, GROUNDS AND INSULATION RESISTANCE BETWEEN CONDUCTORS AND TO GROUND.

13. MISCELLANEOUS SUPPORTING MEMBERS
a. THE INSTALLATION OF ANGLES CHANNELS, AND OTHER MISCELLANEOUS STEEL, BOLTS, RODS, ETC. REQUIRED TO SUPPORT LIGHT FIXTURE, CONDUIT, RACEWAY, LADDER TRAY, OR OTHER ELECTRICAL EQUIPMENT OR DEVICES SHALL BE COORDINATED WITH THE G.C.
b. SPECIAL SYSTEMS:
a. VOICE/DATA/CABLE TV SYSTEMS: UNDER THIS SET OF ELECTRICAL DRAWINGS CONTRACTOR SHALL INSTALL CONDUITS AND J-BOXES. G.C. IS RESPONSIBLE FOR COORDINATION BETWEEN ALL SUB CONTRACTORS AND IS ULTIMATELY RESPONSIBLE FOR ACCURATELY DICTATING THE SCOPE BETWEEN SUB CONTRACTS.

- COLOR OF DEVICES AND PLATES SHALL BE AS DIRECTED BY THE ARCHITECT. THE DEVICES SHALL BE OF THE TYPES AND RATINGS LISTED, OR EQUALS AS MANUFACTURED BY: PASS & SEYMOUR, HUBBELL, LEVITON, LEGRAND, WEATHERPROOF OR RECEPTACLES SHALL BE INSTALLED WHERE SHOWN ON DRAWINGS OR AS REQUIRED BY CODE.
- TOGGLE SWITCHES: 20A-120V COMMERCIAL SPECIFICATION GRADE.
 - DUPLEX RECEPTACLES: 20A-120V COMMERCIAL SPECIFICATION GRADE.
 - GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE: 20A-125V, 5mA, COMMERCIAL SPECIFICATION GRADE.
- 120 WALL SWITCHES SHALL BE MOUNTED IN SUITABLE OUTLET BOXES IN THE WALL OR PARTITIONS. THEY SHALL BE OF THE QUIET DESIGN, TOGGLE HANDLE.
 - RECEPTACLES SHALL BE GROUNDING TYPE, THREE WIRE (HOT, NEUTRAL WIRES PLUS EQUIPMENT GROUND) SINGLE, DUPLEX OR SPECIAL AS INDICATED ON THE DRAWINGS.
 - SPECIAL PURPOSE NEMA RECEPTACLES OTHER THAN 20 AMP CONVENIENCE RECEPTACLES SHALL BE AS SHOWN ON PLANS. FINAL PLUG CONFIGURATION SHALL BE COORDINATED WITH EQUIPMENT SELECTION.
 - COLOR OF WIRING DEVICES AND COVER PLATES SHALL BE SELECTED BY ARCHITECT.
 - WALL PLATES:
 - WALL PLATES SHALL BE AS SPECIFIED BY ARCHITECT AND/OR OWNER. WHERE STANDARD PLATES WILL NOT FIT WALL FINISH, UNPLASTERED BRICK OR SPECIAL FINISH WALLS, USE SPECIAL SIZE PLATES TO SUIT CONDITIONS. ALL WALL PLATES LINE UP AND FLUSH WITH MOUNTING SURFACE AND SECURELY ATTACHED IN PLACE.
 - WHERE SWITCHES, RECEPTACLES OR COMBINATIONS THEREOF ARE GROUNDING, USE GANG PLATES AND OUTLET BOXES TO SUIT THE SPECIFIC ARRANGEMENTS.
 - VERIFY MOUNTING HEIGHTS OF WIRING DEVICES WITH ARCHITECT/OWNER: IN GENERAL, RECEPTACLES 15" ABOVE FLOOR OR 4.5" ABOVE COUNTER TOP WHERE COUNTERS OCCUR, AND SWITCHES 3'-6" ABOVE FLOOR, EXCEPT WHERE SPECIFIC HEIGHTS ARE INDICATED. SPECIAL RECEPTACLE SHALL BE LOCATED AS DIRECTED BY ARCHITECT AND ENGINEER OR AS REQUIRED BY THE EQUIPMENT SERVING.
 - WALL PLATES SHALL BE OF THE SAME MANUFACTURER AS WIRING DEVICES.
 - POKE THRU (WHEN INDICATED ON DRAWINGS):
 - PROVIDE SYSTEM, FIRE RATED POKE THROUGH PER DRAWINGS.
 - FURNISH AND INSTALL ALL REQUIRED HARDWARE FOR A COMPLETE INSTALLATION SYSTEM.
 - ACCEPTED MANUFACTURERS: HUBBELL, WIREMOLD, OR APPROVED EQUAL.
 - LIGHT FIXTURES:
 - FIXTURES SHALL BE PROVIDED COMPLETE WITH ACCESSORIES SUCH AS PLASTER FRAMES, AND OTHER SUPPORTING DEVICES FOR: RECESSED, SURFACE, OR PENDANT MOUNT AS REQUIRED.
 - SPLICES IN INTERNAL WIRING SHALL BE MADE WITH APPROVED INSULATED "WIRE NUT" TYPE MECHANICAL CONNECTORS, SUITABLE FOR THE TEMPERATURE AND VOLTAGE CONDITIONS TO WHICH THEY ARE SUBJECTED.
 - EACH LIGHTING FIXTURE SHALL BE INDEPENDENTLY SUPPORTED FROM THE BUILDING STRUCTURE BY MEANS OF (2) 1/2 GAGE STEEL WIRE. SEE DETAIL IN FRONT SHEET.
 - MANUFACTURER MODEL TYPES SHALL BE AS NOTED OR SCHEDULED ON THE DRAWINGS UNLESS OTHERWISE INDICATED.
 - PROVIDE LAMPS FOR FIXTURES FROM: PHILLIPS, GENERAL ELECTRIC.
 - BALLASTS OR DRIVERS SHALL BE ELECTRONIC WITH A POWER FACTOR OF NOT LESS THAN 98 PERCENT. TOTAL HARMONIC DISTORTION OF NOT MORE THAN 10%. ACCEPTABLE MANUFACTURERS: PHILLIPS, GE OR AS PROVIDED WITH LIGHT FIXTURE AS PART OF THE SYSTEM.
 - THIS CONTRACTOR SHALL FURNISH ADDITIONAL AUXILIARY SUPPORTING STEEL HANGER WIRES ADEQUATELY SIZED TO SUPPORT THE WEIGHT OF THE FIXTURE AND FASTENED TO BUILDING STRUCTURE (MINIMUM TWO PER FIXTURE) FOR FIXTURES NOT MOUNTED ON BUILDING FRAMEWORK. FIXTURES SHALL NOT BE SUPPORTED SOLELY BY THE CEILING STRUCTURE.
 - THIS CONTRACTOR SHALL PROVIDE ANY NECESSARY FITTINGS, ACCESSORIES, ETC. AS NECESSARY TO MAKE A COMPLETE INSTALLATION.
 - REMOVE ALL DIRT, OIL OR GREASE FROM LIGHT FIXTURES. CLEAN ALL GLASS, LENSES, ETC. AND POLISH FIXTURES AND TRIM.
 - OCCUPANCY SENSORS (REFER TO DRAWING FOR INFORMATION).
 - PANELS (UTILIZE EXISTING PANELS WITH NEW BREAKERS WHEN INDICATED):
 - PANEL BOARDS SHALL BE OF THE DEAD-FRONT, SAFETY TYPE, WITH BOLTED-TYPE UL LISTED MOLDED CASE CIRCUIT BREAKERS. CIRCUIT BREAKERS SHALL BE LISTED AS HID FOR LIGHTING CIRCUITS, HACR FOR HVAC LOADS, SWD FOR SWITCHING LOADS ON-OFF DIRECTLY FROM THE PANEL, VOLTAGE RATINGS, NUMBER OF POLES, FRAME SIZES, TRIP RATINGS, MAIN BREAKER, NEUTRAL, BUS, AND EQUIPMENT GROUND BARS ARE AS SHOWN ON THE DRAWINGS. PANEL BOARDS ARE TO BE FULLY RATED FOR THE SHORT CIRCUIT RATING SHOWN ON THE DRAWINGS BUT NOT LESS THAN 10,000 AMPS. BUS BARS SHALL BE RECTANGULAR, SOLID COPPER, 1000 AMPS PER SQUARE INCH TYPE, SECURELY MOUNTED AND BRACED. ALL CONNECTIONS TO BUS BARS SHALL BE SECURELY BOLTED. CABINETS BOXES SHALL BE CONSTRUCTED OF CODE GRADE GALVANIZED STEEL, SIZED TO PROVIDE MINIMUM 4-INCH WIDE WIRING GUTTERS ON SIDES, TOPS AND BOTTOM. FRONTS SHALL BE CONSTRUCTED OF CODE GRADE STEEL, ADJUSTABLE INDICATING TRIM CLAMPS AND WITH DOOR PROVIDED WITH CONCEALED HINGES AND COLLAR TYPE LOCK AND CATCH, PROVIDE DOOR WITHIN DOOR. TWO KEYS PER PANEL SHALL BE FURNISHED, AND ALL LOCKS KEYS ALIKE. FINISH SHALL BE ANS I 61 GRAY. ACCEPTABLE MANUFACTURERS: SQUARE D, CUTLER-HAMMER, PHILLIPS, GENERAL ELECTRIC.
 - IDENTIFICATION OF PANEL BOARDS. PANEL BOARD SHALL HAVE A TYPENRITING CIRCUIT DIRECTORY, MOUNTED UNDER TRANSPARENT PLASTIC ON THE INSIDE OF DOOR TO IDENTIFY EACH CIRCUIT LOAD AND LOCATION. EACH PANEL BOARD SHALL HAVE A LAMINATED BAKELITE NAMEPLATE ATTACHED TO THE OUTSIDE OF THE PANEL BOARD. THE NAMEPLATE SHALL INCLUDE PANEL BOARD DESIGNATION, VOLTAGE, AND PHASE. NAMEPLATES SHALL HAVE BLACK 1/2 INCH LETTERS MINIMUM ON A WHITE BACKGROUND. ATTACH THE NAMEPLATE BY SCREWS OR NUTS.
 - DISCONNECT SWITCHES (HEAVY DUTY, REFER TO DRAWINGS FOR INFORMATION)
 - PROVIDE HEAVY DUTY SURFACE-MOUNTED SAFETY SWITCHES FOR MOTORS, TRANSFORMER, EQUIPMENT, ETC. UNLESS OTHERWISE INDICATED, OF TYPES, SIZES, AND ELECTRICAL CHARACTERISTICS AS INDICATED ON THE DRAWINGS. THE SWITCHES SHALL BE FUSED OR NON-FUSED AS INDICATED ON THE DRAWINGS AND SHALL BE MANUFACTURED BY SQUARE D, CUTLER HAMMER, EATON, PHILLIPS OR GENERAL ELECTRIC.
 - SWITCHES SHALL HAVE SWITCH BLADES WHICH SHALL BE FULLY VISIBLE IN THE OFF POSITION WHEN THE ENCLOSURE DOOR IS OPEN. CURRENT CARRYING PARTS SHALL BE PLATED COPPER AND SWITCH CONTACTS SHALL BE SILVER-TUNGSTEN. SWITCHES SHALL BE QUICK-MARK, QUICK-BREAK TYPE. THE OPERATING HANDLE SHALL BE AN INTEGRAL PART OF THE ENCLOSURE BASE AND SHALL BE PAD LOCKABLE IN THE OFF POSITION. THE HANDLE POSITION SHALL INDICATE WHETHER THE SWITCH IS ON OR OFF. SWITCHES SHALL BE HORSE POWER RATED FOR 250 AC OR DC OR 600 VOLTS AC AS REQUIRED.

13. FIRE ALARM SYSTEM (REFER TO FIRE ALARM SHEET FOR ADDITIONAL INFORMATION):
14. IDENTIFICATION:
a. PROVIDE TYPE DIRECTORIES IN PANEL BOARDS TO DEPICT ACTUAL EQUIPMENT CONNECTED TO INDIVIDUAL BREAKERS/SWITCHES.
b. LABEL EACH PIECE OF EQUIPMENT WITH EQUIPMENT NAME DESIGNATION, SOURCE, VOLTAGE, PHASES.
c. PROVIDE ORANGE LABELS WITH BLACK LETTER/NUMBERS INDICATING VOLTAGE SERVICE 120/208V--PH--W ; 480/277V--PH--W.
d. FURNISH AND INSTALL OUTSIDE OF EQUIPMENT: DESIGNATION, SHALL HAVE BLACK 1/2 INCH LETTERS MINIMUM ON A WHITE BACKGROUND. ATTACH THE NAMEPLATE BY SCREWS OR NUTS.

15. WIRING:
a. CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS SHALL BE COPPER AND THE AWG SIZE AND TYPE AS SHOWN ON DRAWINGS MINIMUM WIRE SIZE SHALL BE #12 UNLESS OTHERWISE INDICATED IN THE DRAWINGS. THE CONDUCTORS SHALL HAVE 600 VOLT INSULATION, TYPE THHN OR THHN.
b. CONDUCTORS SHALL BE STRANDED FOR SIZES #10AWG AND LARGER.
c. ALUMINUM CONDUCTORS ARE NOT PERMITTED.
d. ALL WIRING SHALL BE IN RACEWAY.
e. WIRE CONNECTORS SHALL BE EQUAL TO "SCOTCH LOCK" FOR #10 AWG WIRE AND SMALLER AND EQUAL TO T & B "LOCKTIGHT" FOR #8 AWG AND LARGER. EQUALS BY BUCHANAN OR IDEAL ARE ACCEPTABLE.
f. ALL WIRING TO BE COLOR-CODED AS FOLLOWS:
120/208 VOLT SYSTEM
NEUTRAL - WHITE
PHASE A OR L1 - BLACK
PHASE B OR L2 - RED
PHASE C OR L3 - BLUE
GROUND - GREEN
277/480 VOLT SYSTEM
NEUTRAL - GRAY
PHASE A OR L1 - ORANGE
PHASE B OR L2 - BROWN
PHASE C OR L3 - YELLOW
GROUND - GREEN

16. WIRING DEVICES:
a. THIS CONTRACTOR SHALL FURNISH AND INSTALL SWITCHES AND RECEPTACLES AS SHOWN ON THE DRAWINGS AND AS NECESSARY FOR A COMPLETE INSTALLATION.

B. MATERIAL AND EQUIPMENT:

- GENERAL:
 - PROPOSALS SHALL BE BASED UPON THE FURNISHING OF ALL MATERIALS AND EQUIPMENT AS SPECIFIED, WHICH IN EVERY CASE SHALL BE NEW AND OF THE BEST GRADE AND QUALITY AVAILABLE. EQUIPMENT AND MATERIALS SHALL BE WITHOUT BLEMISH OR DEFECT AND SHALL NOT BE USED FOR TEMPORARY POWER PURPOSES, WITHOUT THE ENGINEER'S PRIOR WRITTEN AUTHORIZATION.
 - ALL ITEMS OF EQUIPMENT OF ONE TYPE, EXCEPT CONDUIT, CONDUIT FITTINGS, OUTLET BOXES, WIRE, AND CABLE, SHALL BE THE PRODUCT OF ONE MANUFACTURER THROUGHOUT UNLESS OTHERWISE INDICATED OR ACCEPTED BY THE ENGINEER.
 - RACEWAYS:
 - THE CONTRACTOR SHALL PROVIDE ALL CONDUITS SERVING ALL EQUIPMENT, INCLUDING BUT NOT LIMITED TO LIGHTING, RECEPTACLES, HEATING, AIR CONDITIONS, PLUMBING EQUIPMENT, VOICE/DATA/CATV/AV OUTLETS AND ELECTRICAL EQUIPMENT IN GENERAL.
 - ALL PANEL AND SERVICE FEEDERS SHALL BE IN RIGID GALVANIZED STEEL CONDUIT (RSCG) UNLESS OTHERWISE INDICATED. ALL CONDUIT SHALL BE UL LABELED. EMT SHALL BE ACCEPTABLE FOR BRANCH CIRCUITS RUN ABOVE SUSPENDED CEILINGS OR CONCEALED IN INTERIOR PARTITIONS. EMT CONNECTORS SHALL BE COMPRESSION TYPE UNLESS OTHERWISE INDICATED. SET SCREW FITTINGS ARE NOT PERMITTED. CONDUIT UNDER SLAB OR LOCATED IN THE EXTERIOR OF THE BUILDING SHALL BE RSCG.
 - MINIMUM SIZES OF CONDUIT SHALL BE 3/4" FOR INDIVIDUAL LIGHTING FIXTURE CONNECTION OR TO INDIVIDUAL LIGHT SWITCHES AND FOR ALL OTHER LOCATIONS UNLESS OTHERWISE INDICATED. IF HVAC CONTROL WIRING IS REQUIRED TO BE RUN IN CONDUIT, IT SHALL BE MINIMUM OF 1/2" SIZE, UNLESS NOTED OTHERWISE ON DRAWINGS. ALL IN/UNDER FLOOR SLAB CONDUIT SHALL BE A MINIMUM OF 1" SIZE UNLESS OTHERWISE INDICATED IN THE DRAWINGS.
 - SUPPORT ALL CONDUIT, INCLUDING SEISMIC AND SWAY BRACING.
 - GENERALLY, ALL CONDUIT SHALL BE CONCEALED EXCEPT FOR UNFINISHED AREAS, SUCH AS EQUIPMENT ROOMS. EXPOSED CONDUIT SHALL BE ALLOWED ONLY AS NOTED ON PLAN AND AS APPROVED BY THE OWNER'S CONSTRUCTION MANAGER. PAINTING OF CONDUITS WILL BE BY GENERAL CONTRACTOR.
 - FLEXIBLE METAL CONDUIT AND THEIR ASSOCIATED FITTINGS ARE TO BE LISTED OR GROUNDING A GREEN GROUNDING CONDUCTOR SHALL BE PROVIDED. ALL CONNECTORS ARE TO BE OF A NEMA APPROVED TYPE.
 - FLEXIBLE CONDUIT SHALL BE ACCEPTABLE FOR THE FOLLOWING APPLICATIONS AND SHALL NOT EXCEED 6 FEET IN LENGTH. INSTALL GREEN GROUNDING CONDUCTOR
 - FINAL CONNECTIONS TO VIBRATING EQUIPMENT SUCH AS MOTORS, TRANSFORMERS, ETC. SHALL BE MADE WITH LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC).
 - FINAL INTER-CONNECTIONS BETWEEN LIGHT FIXTURES.
 - FINAL CONNECTIONS WHERE RIGID CONDUIT IS NOT PRACTICAL.
 - PROVIDE POLY PULL-STRING IN ALL EMPTY CONDUITS.
 - HOME RUNS AND MAIN CONDUIT RUNS ARE TO BE HELD TIGHT TO STRUCTURE ABOVE, OR AS REQUIRED TO ALLOW PROPER CLEARANCE OF CEILING AND OTHER TRADES WORK. RACEWAYS SHALL BE SECURELY SUPPORTED BY APPROVED STRUCTURAL METHODS AT FIVE FOOT (5') INTERVALS.
 - ALL CONDUITS SHALL BE RUN PARALLEL OR PERPENDICULAR TO COLUMN LINES.
 - ALL CONDUITS MUST BE SIZED PER CODE.
 - WHERE RACEWAY IS SUBJECT TO MECHANICAL INJURY OR CORROSION UTILIZE RSCG OR INTERMEDIATE METAL CONDUIT (IMC), FITTINGS SHALL BE THREADED.
 - PROVIDE PULL BOXES IN RUNS OVER 100 FEET, WHEN MORE THAN THE EQUIVALENT OF THREE (3) 90' BENDS ARE USED, AND AS SHOWN ON DRAWINGS.
 - ELECTRICAL BOXES:
 - UNLESS OTHERWISE NOTED, OUTLET BOXES SHALL BE GALVANIZED PRESSED STEEL, KNOCKOUT TYPE, WITH SUITABLE PLASTER RINGS AND COVER PLATES.
 - UNUSED KNOCKOUT HOLES SHALL REMAIN CLOSED AND THOSE OPENED BY ERROR SHALL BE CLOSED WITH SNAP-IN BLANKS.
 - OUTLET BOXES SHALL NOT BE SMALLER THAN REQUIRED BY CODE FOR THE NUMBER AND SIZE OF WIRES TO BE INSTALLED.
 - BOXES IN COVE AND LOCATED ABOVE SUSPENDED CEILING SHALL BE PLENUM RATED WHEN THE SPACE IS PLENUM RATED.
 - FLOOR BOXES: PROVIDE SYSTEMS PER DRAWINGS.
 - PROVIDE JUNCTION BOXES, PULL BOXES, CABLE SUPPORTS, AND WIREWAYS AS REQUIRED FOR PROPER INSTALLATION OF THE ELECTRICAL WORK. WHETHER OR NOT SPECIFICALLY SHOWN ON THE DRAWINGS, COVERS SHALL BE ACCESSIBLE. SMALL JUNCTION BOXES SHALL BE SIMILAR TO OUTLET BOXES.
 - JUNCTION BOXES AND COVERS SHALL BE FABRICATED FROM GALVANIZED NEC GAGE SHEET STEEL. OUTLET BOXES TO BE OF THE HOT-DIPPED GALVANIZED, PRESSED STEEL, KNOCKOUT TYPE. BOXES SHALL GENERALLY BE 4 INCHES SQUARE, 1-1/2" DEEP MINIMUM, EXCEPT WHERE NOTED OTHERWISE.
 - PULL BOXES, CABLE SUPPORT BOXES, AND LARGE JUNCTION BOXES FOR INDOOR USE SHALL BE MADE OF CODE GAUGE STEEL. COVERS SHALL BE HELD IN PLACE WITH STAINLESS STEEL SCREWS. PAINT INTERIOR AND EXTERIOR SURFACES WITH RUST-INHIBITIVE PAINT.
 - BOXES SHALL BE AS MANUFACTURED BY: APPLETON, GARVIN, RACO (HUBBELL) & STEEL CITY.
- SLEEVES:
 - THE CONTRACTOR SHALL PROVIDE SLEEVES TO PROTECT EQUIPMENT OR FACILITIES IN THE INSTALLATION. EACH SLEEVE SHALL EXTEND THROUGH IT'S RESPECTIVE FLOOR, WALL OR PARTITION AND SHALL BE CUT FLUSH WITH EACH SURFACE THROUGH WHICH THAT PENETRATE THE FLOOR, WHICH SHALL EXTEND 2" ABOVE THE FLOOR.
 - UNLESS OTHERWISE NOTED, ALL SLEEVES AND OPENINGS THROUGH FIRE RATED WALLS SHALL BE FIRE SEALED WITH CALCIUM SILICATE, SILICONE "RTV" FOAM, "3M" FIRE RATED SEALANTS OR EQUAL, SO AS TO RETAIN THE FIRE RATING OF THE FLOOR OR WALL. CONFORM TO UL ASSEMBLY RATING OF FLOOR OR WALL.
 - SLEEVES IN BEARING AND MASONRY WALLS, FLOORS AND PARTITIONS SHALL BE STANDARD WEIGHT BLACK STEEL PIPE FINISHED WITH SMOOTH EDGES. FOR OTHER THAN MASONRY PARTITIONS, THROUGH SUSPENDED CEILINGS, OR FOR CONCEALED VERTICAL CONDUIT.
 - SLEEVES SHALL HAVE PLASTIC END BUSHES INSTALLED WHEN THEY ARE USE FOR THE INSTALLATION OF OPEN CABLING.
- WIRING:
 - CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS SHALL BE COPPER AND THE AWG SIZE AND TYPE AS SHOWN ON DRAWINGS MINIMUM WIRE SIZE SHALL BE #12 UNLESS OTHERWISE INDICATED IN THE DRAWINGS. THE CONDUCTORS SHALL HAVE 600 VOLT INSULATION, TYPE THHN OR THHN.
 - CONDUCTORS SHALL BE STRANDED FOR SIZES #10AWG AND LARGER.
 - ALUMINUM CONDUCTORS ARE NOT PERMITTED.
 - ALL WIRING SHALL BE IN RACEWAY.
 - WIRE CONNECTORS SHALL BE EQUAL TO "SCOTCH LOCK" FOR #10 AWG WIRE AND SMALLER AND EQUAL TO T & B "LOCKTIGHT" FOR #8 AWG AND LARGER. EQUALS BY BUCHANAN OR IDEAL ARE ACCEPTABLE.
 - ALL WIRING TO BE COLOR-CODED AS FOLLOWS:
 - 120/208 VOLT SYSTEM
 - NEUTRAL - WHITE
 - PHASE A OR L1 - BLACK
 - PHASE B OR L2 - RED
 - PHASE C OR L3 - BLUE
 - GROUND - GREEN
 - 277/480 VOLT SYSTEM
 - NEUTRAL - GRAY
 - PHASE A OR L1 - ORANGE
 - PHASE B OR L2 - BROWN
 - PHASE C OR L3 - YELLOW
 - GROUND - GREEN
- WIRING DEVICES:
 - THIS CONTRACTOR SHALL FURNISH AND INSTALL SWITCHES AND RECEPTACLES AS SHOWN ON THE DRAWINGS AND AS NECESSARY FOR A COMPLETE INSTALLATION.

A. GENERAL REQUIREMENTS:

- SCOPE OF WORK:
 - FURNISH AND INSTALL A COMPLETE ELECTRICAL SYSTEM AS SHOWN ON THE CONTRACT DRAWINGS. THE INSTALLATION SHALL BE COMPLETE IN EVERY DETAIL ESSENTIAL TO PROPER AND SATISFACTORY OPERATION, READY FOR USE AND IN GOOD ORDER AT SERVICE WHEN DELIVERED TO THE OWNER. ALL MANUFACTURED ITEMS SHALL BE ERCTED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS EXCEPT AS OTHERWISE SPECIFIED HEREIN.
 - REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATION.
- APPROVALS:
 - OBTAIN APPROVALS FROM INSPECTION AUTHORITIES FOR ELECTRICAL INSTALLATIONS REQUIRING SPECIFIC APPROVAL. PRINTS OF THE ELECTRICAL DRAWINGS, FOR THIS PURPOSE, WILL BE FURNISHED UPON REQUEST. REQUIRED WIRING DIAGRAMS SHALL BE PROVIDED AND SUBMITTED FOR APPROVAL BY THE CONTRACTOR. COPIES OF THE FINAL APPROVALS SHALL BE OBTAINED BEFORE COMMENCEMENT OF RELATED WORK.
- CODES AND STANDARDS:
 - THE WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL, MUNICIPAL, AND NATIONAL CODES. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE CONSTRUCTION DOCUMENTS SHALL GOVERN. THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.
 - MATERIALS, EQUIPMENT AND INSTALLATION SHALL CONFORM TO LOCAL CODE AND STANDARDS, THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA), UNDERWRITER'S LABORATORIES (UL), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND ALL LAWS AND ORDINANCES OF LOCAL, STATE AND FEDERAL GOVERNING AGENCIES.
- FEES:
 - ALL PERMIT FEES SHALL BE PAY BY THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING REQUIRED INSURANCE, INSPECTIONS, APPLICATIONS, PERMITS, LICENSES, ETC. RELATING TO THE ELECTRICAL WORK.
- CONTRACTOR'S LIABILITY:
 - THE CONTRACTOR SHALL AGREE THAT THE OWNER, THE ARCHITECT AND THE ENGINEER SHALL NOT IN ANY FORM OR MANNER BE ANSWERABLE OR ACCOUNTABLE FOR ANY VIOLATION OF ORDINANCES, CODES OR REGULATIONS OF ANY AUTHORITIES, UTILITIES, INSURANCE COMPANIES AND GOVERNMENT AGENCIES HAVING JURISDICTION, OR FOR ANY ACCIDENTS, INJURY, LOSS OR DAMAGE TO ANY PERSON OR PERSONS AND THEIR PROPERTIES ARISING FROM NEGLIGENCE OR CARELESSNESS ON THE PART OF THE CONTRACTOR (NOR ANYONE IN HIS EMPLOY), ANY OF HIS SUBCONTRACTORS, OR ANY OTHER PARTIES OR AGENTS TO THIS CONTRACT.
 - THE CONTRACTOR SHALL AGREE TO MAKE GOOD TO SAID OWNER, ARCHITECT, AND ENGINEER ANY LOSS, DAMAGE OR EXPENSE SO INCURRED, TOGETHER WITH REASONABLE ATTORNEY'S FEES.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR READING AND COMPLYING WITH BOTH THE DRAWINGS AND SPECIFICATIONS. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN THE DRAWINGS, NOTES, SPECIFICATIONS, OR CODES, THE REFERENCE WHICH PROVIDES THE MORE COMPLETE OR HIGHER STANDARD SHALL PREVAIL.
 - THE CONTRACTOR SHALL CHECK ALL DRAWINGS FURNISHED TO THEM IMMEDIATELY UPON THEIR RECEIPT AND SHALL PROMPTLY NOTIFY THE OWNER OF ANY DISCREPANCIES. FIGURES MARKED ON DRAWINGS SHALL IN GENERAL BE FOLLOWED IN PREFERENCE TO SCALE MEASUREMENTS. LARGE SCALE DRAWINGS SHALL IN GENERAL GOVERN SMALL SCALE DRAWINGS. THE CONTRACTOR SHALL COMPARE ALL DRAWINGS AND VERIFY THE FIGURES BEFORE LAYING OUT THE WORK AND WILL BE RESPONSIBLE FOR ANY ERRORS WHICH MIGHT HAVE BEEN AVOIDED THEREBY.
- EXAMINATION OF DRAWINGS AND SITE:
 - THE ELECTRICAL CONTRACTOR SHALL OBTAIN A COMPLETE SET OF ARCHITECTURAL AND ENGINEERING DOCUMENTS AND COORDINATE WITH MECHANICAL, PLUMBING, ARCHITECTURAL, CIVIL AND OTHER TRADES FOR EXACT DIMENSIONS, CLEARANCES, ROOMS IN LOCATIONS, AND OTHER ADDITIONAL SCOPES OF WORK THAT MAY NOT BE SHOWN ON THE ELECTRICAL PLANS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE POWER TO OTHER TRADES EQUIPMENT AND HARDWARE THAT SHALL INCLUDE, BUT NOT BE LIMITED TO, CONTROLS, FIRE, MOTOR, DAMPERS, POLE LIGHTS AND OTHER SYSTEMS. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE ELECTRICAL PLANS, THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL SAFETY DISCONNECT SWITCHES TO MECHANICAL EQUIPMENT AND TRANSFORMERS UNLESS OTHERWISE INDICATED.
 - BY THE ACT OF HAVING SUBMITTED A BID, THE CONTRACTOR SHALL DEEM TO HAVE MADE SUCH AN EXAMINATION AND SHALL HAVE ACCEPTED THE PREVAILING CONDITIONS. NO SUBSEQUENT ALLOWANCE WILL BE MADE TO CONTRACTOR BECAUSE OF HIS NEGLIGENCE IN COMPLYING WITH THE FOREGOING.
- GUARANTEE:
 - THE CONTRACTOR SHALL FURNISH THE OWNER WITH A WRITTEN GUARANTEE COVERING ALL OF THE EQUIPMENT AND INSTALLATION FURNISHED UNDER THE CONTRACT AGAINST FAILURE FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE ENTIRE PROJECT. THE CONTRACTOR SHALL ASSUME THE LIABILITY OF ALL EQUIPMENT AND INSTALLATION COVERED IN THIS CONTRACT, INCLUDING ALL COSTS OF LABOR, MATERIALS AND EQUIPMENT RENTALS REQUIRED.
 - ANY ADDITIONAL COSTS INCURRED IN THE REPAIR AND RECONSTRUCTION OF ALL OTHER INSTALLATIONS NOT PART OF THIS CONTRACT BUT WHICH MIGHT BE DAMAGED BY THE EQUIPMENT GUARANTEED OR AFFECTED BY THE REPAIR WORK COVERED UNDER THE GUARANTEE, SHALL BE PART OF THIS GUARANTEE.
- INTERPRETATION OF THE DOCUMENTS:
 - WHenever COMPARE THE DRAWINGS AND SPECIFICATIONS, CHECKING MEASUREMENTS AND CONDITIONS UNDER WHICH THIS INSTALLATION IS TO BE MADE, FOR CLARIFICATION BETWEEN VARIOUS DRAWINGS, BETWEEN DRAWINGS OR SPECIFICATION, OR BETWEEN SECTIONS OF THE SPECIFICATION, THE MATTER SHALL BE REFERRED TO THE ENGINEER BEFORE ANY WORK IS EXECUTED. THE CONTRACTOR SHALL STATE IN THEIR PROPOSAL, ANY EXCEPTIONS NECESSARY TO MAKE THIS A COMPLETE, READY TO USE INSTALLATION. IF NOT STATED IN THE PROPOSAL, IT WILL NOT BE CONSIDERED EXTRA.
 - OMISSIONS FROM THE DRAWINGS, SPECIFICATION NOTES, OR DETAILS OF WORK WHICH ARE NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED DETAILS OF THE WORK BUT THEY SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH AND DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.
- ELECTRICAL DRAWINGS:
 - THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL DOORS, WALLS, FURNITURE, EQUIPMENT, ETC. THE LOCATION OF RACEWAY SYSTEM COMPONENTS IS SCHEMATIC. THE EXACT LOCATION OF RACEWAY SYSTEM COMPONENTS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD. THE CONTRACTOR SHALL CONFIRM THE DIMENSIONS OF THE ACTUAL EQUIPMENT TO BE SUPPLIED FOR THIS PROJECT, AND VERIFY CLEARANCES AND ROUGH-INS PRIOR TO STARTING WORK.
- SHOP DRAWINGS AND SUBMITTALS:
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHOP DRAWING SUBMITTALS WHICH SHALL INCLUDE, BUT NOT BE LIMITED TO: PRODUCT DATA AND EQUIPMENT SPECIFICATIONS SHEETS, SCHEMATIC DIAGRAMS, WIRING DIAGRAMS, SIZES, MOUNTING DETAILS (WITH REQUIRED ELEVATIONS), TECHNICAL DESCRIPTIONS OF COMPONENTS, TEST REPORTS, CERTIFICATES, OPERATING AND MAINTENANCE MANUALS, AND PROPER CALCULATIONS TO ENSURE SPECIFIED PERFORMANCE OF THE SYSTEMS. NO EQUIPMENT SHALL BE ORDERED, PURCHASED, OR INSTALLED PRIOR TO APPROVAL OF THE SUBMITTALS AND SHOP DRAWINGS.
 - SUBMIT COMPLETE SHOP DRAWINGS FOR MANUFACTURED EQUIPMENT: CLEARLY MARK SUBMISSIONS FOR LIGHTING FIXTURES WITH THE TYPE ASSIGNED TO EACH FIXTURE IN THE FIXTURES SCHEDULE. INCLUDE SELECTION OF INTENDED PART. INCLUDE LAMPS AND BALLASTS.
 - PROVIDE SUFFICIENT INFORMATION AND DATA REQUIRED TO REASONABLY DETERMINE PROPER COMPLIANCE WITH THE SPECIFICATIONS.
 - IN ADDITION, THE CONTRACTOR SHALL SUBMIT A COMPLETE LIST OF MATERIALS PROPOSED, GIVING THE MANUFACTURER'S NAME, CATALOG NUMBER, OR OTHER MEANS OF IDENTIFICATION TO SHOW COMPLIANCE WITH THESE SPECIFICATIONS.
 - REVIEW OF SHOP DRAWINGS IS RENDERED AS A SERVICE ONLY, AND SHALL NOT BE CONSIDERED AS A GUARANTEE OF MEASUREMENTS OR BUILDING CONDITIONS, NOR SHALL IT BE CONSTRUED AS RELIEVING THE CONTRACTOR OF BASIC RESPONSIBILITY UNDER THE CONTRACT. SHOP DRAWINGS SHALL BE SUBMITTED ON, BUT NOT BE LIMITED TO THE FOLLOWING SYSTEMS: LIGHT FIXTURES AND ALL ASSOCIATED LIGHT FIXTURES HARDWARE INCLUDING LAMPS , WIRING DEVICES, COVER PLATES, ELECTRICAL GEAR, PANELS, BREAKERS, DISCONNECTS, BUSSES, DATA/VOICE AND CABLING (WHEN INCLUDED IN THE PROJECT), CABLE (WHEN INDICATED), FIRE ALARM DEVICES, AUTOMATIC TRANSFER SWITCHES, GENERATOR, ETC.