

APPLICABLE CODES  
2012 INTERNATIONAL BUILDING CODE  
2012 INTERNATIONAL MECHANICAL CODE  
2012 INTERNATIONAL PLUMBING CODE  
2012 INTERNATIONAL FIRE CODE  
2012 INTERNATIONAL ENERGY CONSERVATION CODE  
2011 NATIONAL ELECTRICAL CODE  
2009 ICC/ANSI A117.1

DESCRIPTION OF WORK  
NEW TWO STORY OFFICE BUILDING

OCCUPANCY CLASSIFICATION  
B (OFFICE)

TYPE OF CONSTRUCTION  
V-B, SPRINKLED

FLOOR AREA

FIRST FLOOR: 5,882 SQ.FT.  
SECOND FLOOR: 5,834 SQ.FT.  
(ALLOWABLE AREA = 23,000 SQ.FT. PER FLOOR X 3 FLOORS)

OCCUPANT LOAD

FIRST FLOOR:  $5,882 / 100 = 59$   
SECOND FLOOR:  $5,834 / 100 = 59$   
TOTAL: 118

EXITS REQUIRED

**EXITS REQUIRED:**  
SECOND FLOOR: TWO  
FIRST FLOOR: TWO

EXITS PROVIDED

SECOND FLOOR: TWO  
FIRST FLOOR: TWO

TOILET FACILITIES REQUIRED

MEN: 3 WC & 2 LAV  
WOMEN: 3 WC & 2 LAV  
MOP SINK  
DRINKING FOUNTAIN (ADA)

TOILET FACILITIES PROVIDED

MEN: 2 WC & 2 UR & 2 LAV  
WOMEN: 4 WC & 2 LAV  
MOP SINK  
DRINKING FOUNTAIN (ADA)

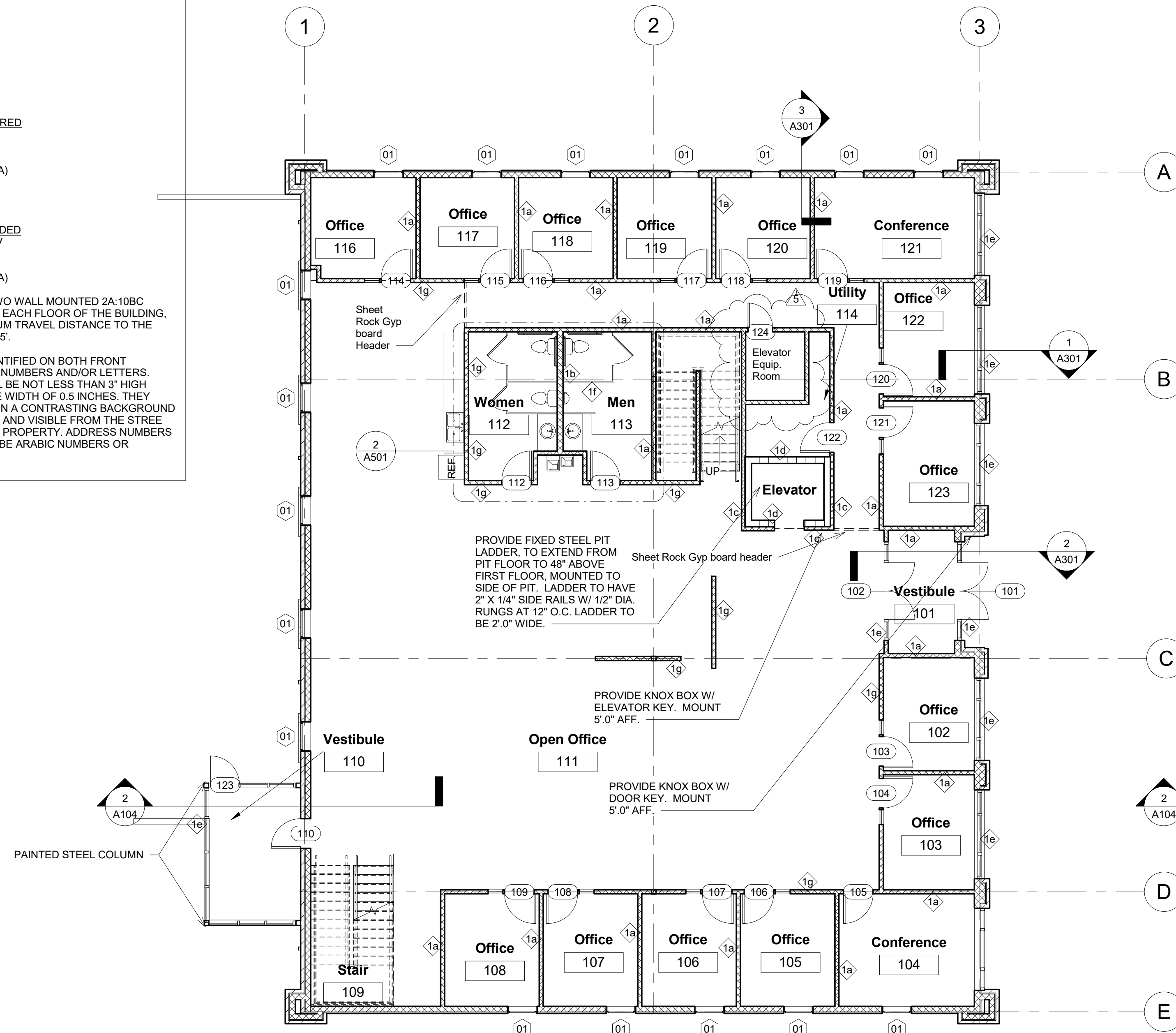
PROVIDE MINIMUM OF TWO WALL MOUNTED 2A:10BC  
FIRE EXTINGUISHERS ON EACH FLOOR OF THE BUILDING,  
LOCATED WITH A MAXIMUM TRAVEL DISTANCE TO THE  
FIRE EXTINGUISHER OF 75'.

PREMISES SHALL BE IDENTIFIED ON BOTH FRONT AND REAR DOORS, WITH NUMBERS AND/OR LETTERS. EACH CHARACTER SHALL BE NOT LESS THAN 3" HIGH WITH A MINIMUM STROKE WIDTH OF 0.5 INCHES. THEY SHOULD BE INSTALLED ON A CONTRASTING BACKGROUND AND BE PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. ADDRESS NUMBERS AND/OR LETTERS SHALL BE ARABIC NUMBERS OR ALPHABETIC LETTERS.

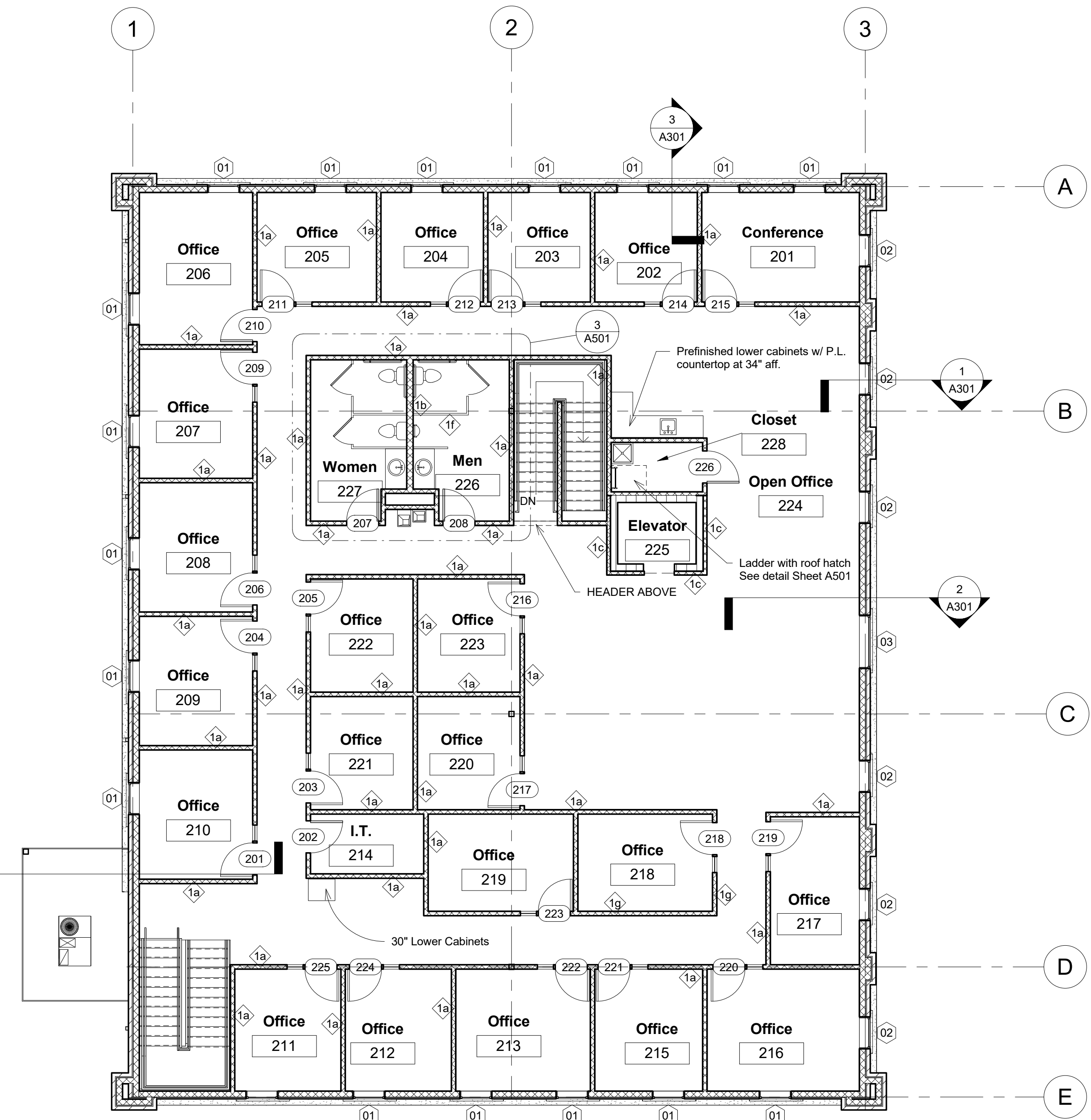
NOTE: IF ALTERNATE MANUFACTURER IS SELECTED, VERIFY ALL PIT AND SHAFT SIZE REQUIREMENTS PRIOR TO CONSTRUCTION.

NORTH AND SOUTH BUILDING WALLS TO BE 1 HOUR RATED (NON BEARING) UL DESIGN V432. PER IBC TABLE 705.8 WALLS ARE ALLOWED TO HAVE 25% UNPROTECTED OPENINGS. SEE BUILDING ELEVATIONS FOR UNPROTECTED OPENING PERCENTAGES FOR NORTH AND SOUTH WALLS. A MINIMUM 30" HIGH PARAPET IS PROVIDED ON THE NORTH AND SOUTH WALLS. SEE SHEET A105 FOR UL DESCRIPTION

PROVIDE (4) 2A:10BC FIRE EXTINGUISHERS PER FLOOR, LOCATION TO BE COORDINATED WITH FIRE DEPARTMENT.



1 First Floor Plan-Annotation  
1/8" = 1'-0"



② Second Floor Plan- Annotation  
1/8" = 1'-0"



**scharhag**  
HERMAN A. SCHARHAG COMPANY, ARCHITECTS

TENNANT A. SUTANINGGUMIHANT, ANGLILECIS

6247 Brookside Blvd, #204 Kailas City, MO 64113  
Phone: 816-656-5055 Scharhag@att.net

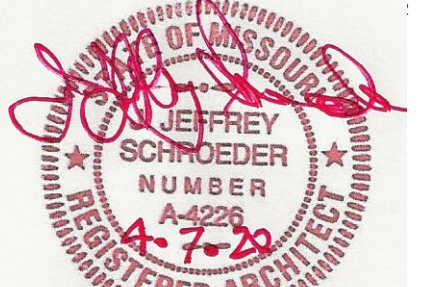
Copyright 2018 Herman A. Scharhag Co., Architects  
All Rights Reserved. No part of these drawings may be  
reproduced in any form or by any electronic or  
mechanical means, without written permission.

NEW BUILDING FOR

# REECE NICHOLS

222 SW Main Street

Jeffry Schroeder Mo. Licence A-4228



5	Owner Changes	4.1.2020
4	Owner Changes	Date 4
3	Owner Changes	6.15
1	City Comment	5.7
<b>No.</b>	<b>Description</b>	<b>Date</b>
<b>Revision Schedule</b>		

## Annotation Floor Plans

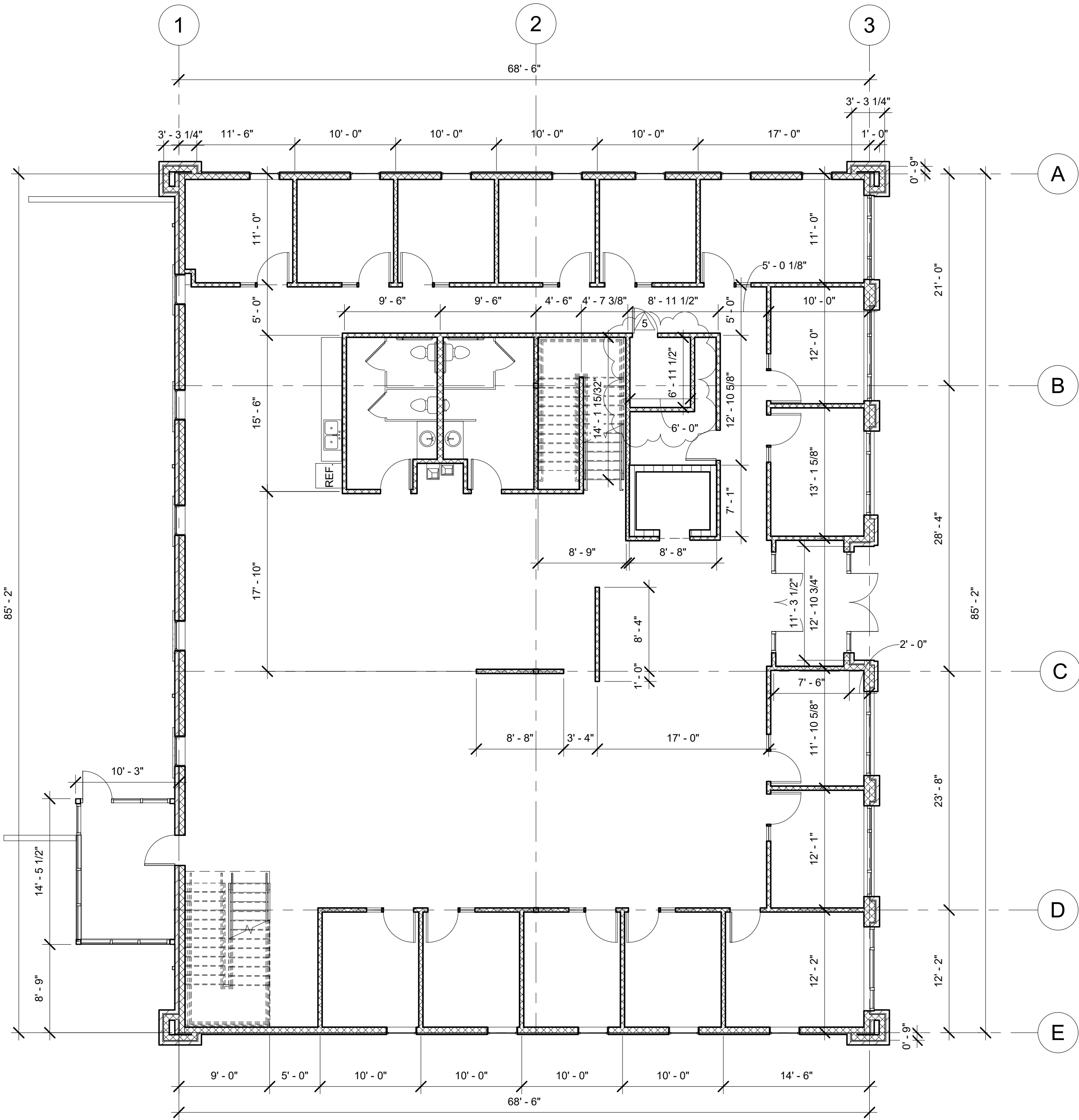
Project number	1981
Date	05/02/2019

# A101

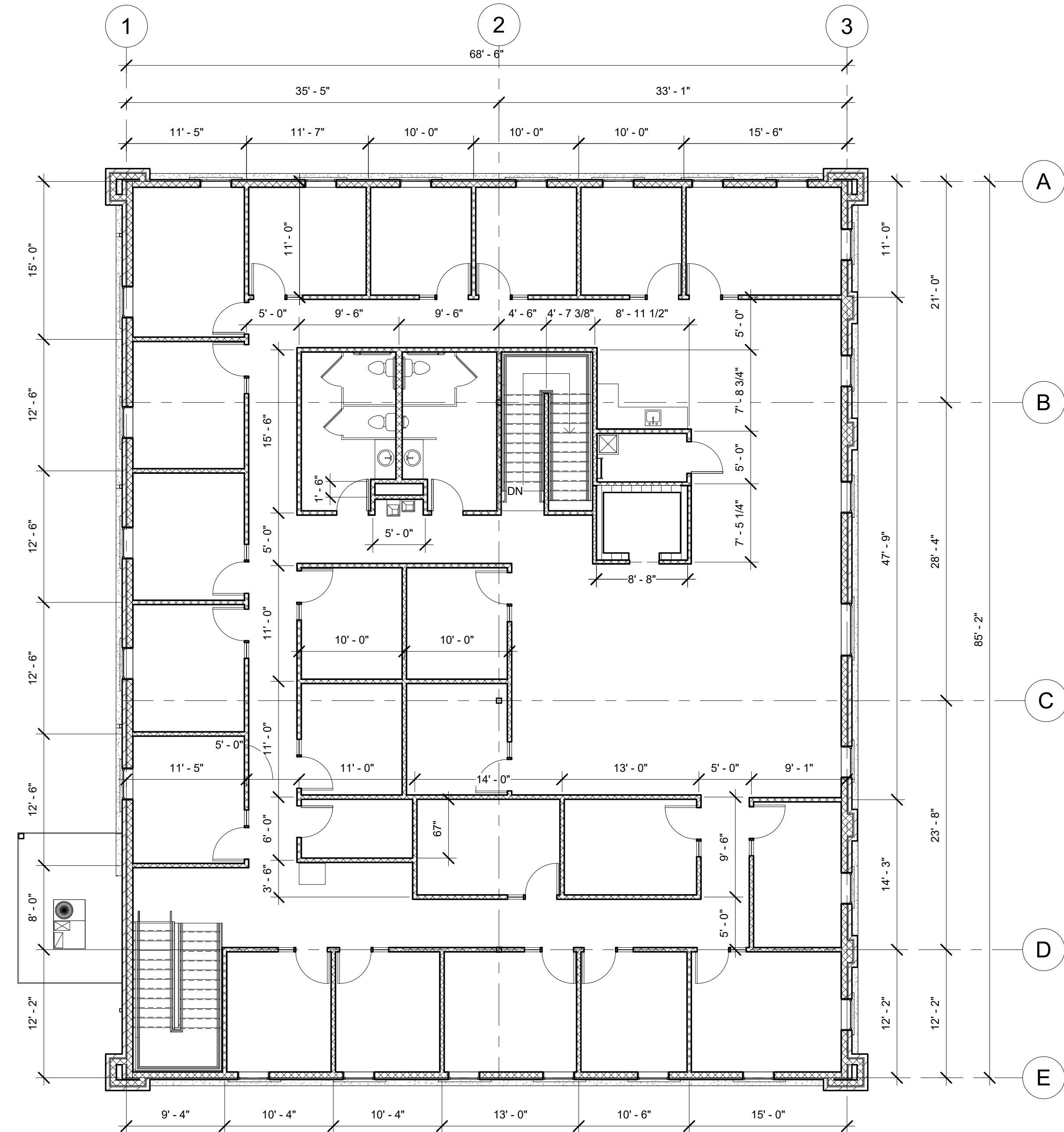
Scale  $1/8" = 1'-0"$



① First Floor Plan-Dimension  
1/8" = 1'-0"



② Second Floor Plan- Dimension  
1/8" = 1'-0"



**Scharhag**

HERMAN A. SCHARHAG COMPANY, ARCHITECTS

6247 Brookside Blvd. #204 Kansas City, Mo 64113  
Phone: 816-656-5055 Scharhag@att.net

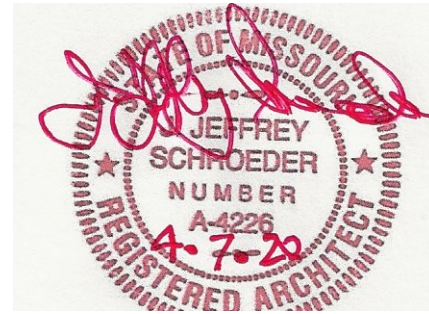
Copyright 2016 Herman A. Scharhag Co., Architects  
All Rights Reserved. No part of these drawings may be  
reproduced in any form or by any electronic or  
mechanical means, without written permission.

NEW BUILDING FOR

**REECE NICHOLS**

222 SW Main Street

J. Jeffrey Schroeder Mo. License A-4226  
Herman Scharhag Co., Arch. Corp., of Authority 000022



5	Owner Changes	4.1.2020
No.	Description	Date
Revision Schedule		

Dimension Floor  
Plans

Project number 1981  
Date 05/02/2019

**A102**

Scale 1/8" = 1'-0"

4/7/2020 3:03:42 PM

Door Schedule					
Mark	Family	Type	Door Finish	Frame Finish	Hardware Type
101	Storefront Entry Double	6x7 Store Front Double Door	Aluminum	Aluminum	Group A
102	Storefront Entry Double	6x7 Store Front Double Door	Aluminum	Aluminum	Group A
103	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
104	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
105	Single-Flush	3 x 7 Office	Wood	Hollow Metal	Group C
106	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
107	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
108	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
109	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
110	Single-Flush	3 x7 Exterior	Hollow Metal	Hollow Metal	Group B
112	Single-Flush	3 x 7 Multi Toilet	Wood	Hollow Metal	Group E
113	Single-Flush	3 x 7 Multi Toilet	Wood	Hollow Metal	Group E
114	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
115	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
116	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
117	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
118	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
119	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
120	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
121	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
122	Single-Flush	3 x 7 Office	Wood	Hollow Metal	Group C
123	Storefront Entry Single	3x7 Store Front Single Door	Aluminum	Aluminum	Group A
124	Single-Flush	2' 6 x 7 Office	Wood	Hollow Metal	Group C
201	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
202	Single-Flush	3 x 7 Office	Wood	Hollow Metal	Group C
203	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
204	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
205	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
206	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
207	Single-Flush	3 x 7 Multi Toilet	Wood	Hollow Metal	Group E
208	Single-Flush	3 x 7 Multi Toilet	Wood	Hollow Metal	Group E
209	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
210	Single-Flush	3 x 7 Office	Wood	Hollow Metal	Group C
211	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
212	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
213	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
214	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
215	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
216	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
217	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
218	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
219	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
220	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
221	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
222	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
223	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
224	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
225	single flush w sidelight	3 X 7 w/ 1'6" sidelite	Wood	Hollow Metal	Group B
226	Single-Flush	3 x 7 Office	Wood	Hollow Metal	Group C

HM = 16 GA. HOLLOW METAL, PAINTED  
WD = SOLID CORE RED OAK, STAINED  
AL = ANODIZED ALUMINUM  
IRP = IMPACT RESISTANT PLASTIC

HARDWARE SHALL BE MEDIUM DUTY COMMERCIAL GRADE. DOOR HARDWARE SHALL CONSIST OF BUTTS, LATCHSET OR LOCKSET, SILENCERS, SMOKE GASKETING FOR RATED DOORS, CLOSERS WHERE NOTED, PANIC DEVICES WHERE NOTED. EXTERIOR DOORS SHALL ALSO HAVE THRESHOLD, WEATHERSTRIPPING, SWEEP AND KEYPED LOCK. CONTRACTOR SHALL COORDINATE ALL LATCH/LOCK FUNCTIONS AND KEYING OF LOCKS WITH OWNER. MAX. THRESHOLD = 1/2". ALL HARDWARE TO BE LEVER TYPE OR PUSH/PULL. ALL DOORS IN EGRESS PATHWAYS SHALL BE FREE TURNING FOR EXITING.

GLASS IN DOORS AND SIDELIGHTS SHALL BE SAFETY GLASS PER IBC SEC. 2406.1

DOOR HARDWARE SCHEDULE

GROUP A  
Cylinder  
Closer  
Bottom sweep

GROUP B  
Lockset w/ lever handles  
Strike plate  
1-1/2 pair hinges  
Closer  
Drip cap  
Gasketing  
Bottom sweep

GROUP C  
Lockset w/ lever handles  
Strike plate  
1-1/2 pair hinges

GROUP D  
Lockset w/ lever handles  
Strike plate  
1-1/2 pair hinges  
Closer

GROUP E  
Push / pull set  
1-1/2 pair hinges  
Closer

GROUP F  
Latchset w/ lever handles  
Strike plate  
1-1/2 pair hinges  
Closer  
Smoke gasketing

GROUP G  
Latchset w/ lever handles  
Strike plate  
1-1/2 pair hinges

Wall Schedule		
Type Mark	Type	Type Comments
1a	Interior Partition-Metal Stud	3-5/8" Metal studs @ 16" o.c. w/ 3 1/2" fiberglass batt insulation and (1) layer 5/8" gyp. board each side. To 6" above ceiling
1b	Wet Wall	6" Metal studs @ 16" o.c. w/ 3 1/2" fiberglass batt insulation and (1) layer 5/8" gyp. board each side. To 6" above ceiling
1c	Interior Furring wall metal studs	Furr out existing wall w/ 3 5/8" metal studs at 16" o.c. w/ 3 1/2" kraft faced batt insulation and (1) layer 5/8" gyp. board. To roof deck
1d	Interior CMU	8" thick CMU wall w/ #4 vertical at 48" o.c. in fully grouted cells. Provide galvanized truss reinforcing at 16" o.c. horizontal.
1e	Anod. Alum. Windows	Anod. Alum. Storefront - See elevations
1f	Toilet Partition	Baked Enamel Toilet Partition
1g	Interior Partition-Metal Stud 2	3-5/8" Metal studs @ 16" o.c. w/ 3 1/2" fiberglass batt insulation and (1) layer 5/8" gyp. board each side. To roof deck

CEILING TO BE DONN DX HDG STEEL ACOUSTICAL SUSPENSION SYSTEM WITH 2' X 4' SQUARE EDGE USG MARS ACOUSTICAL CEILING PANELS, #68185, OR APPROVED EQUAL.

Window Schedule					
Type Mark	Type	Height	Width	Sill Height	Count
01	Fixed Aluminum 3' x 6'	6' - 0"	3' - 0"	3' - 0"	35
02	Fixed Aluminum 3' x 6'	6' - 0"	3' - 0"	3' - 0"	6
03	Fixed Aluminum 5' x 6'	6' - 0"	5' - 0"	3' - 0"	1

ALL ALUMINUM STOREFRONT AND ENTRY FRAMING WILL BE KAWNEER DARK BRONZE TRIFAB VERSAGLAZE 451T FRAMING SYSTEM WITH 1" INSULATED SOLAR BRONZE GLAZING

Room Schedule					
Number	Name	Base Finish	Wall Finish	Floor Finish	Ceiling Finish
101	Vestibule	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
102	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
103	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
104	Conference	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
105	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
106	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
107	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
108	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
109	Stair	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
111	Open Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	None
112	Women	6" rubber cove	Epoxy Paint	Polished Concrete	2x4 Suspended Acoustical
113	Men	6" rubber cove	Epoxy Paint	Polished Concrete	2x4 Suspended Acoustical
114	Utility	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
116	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
117	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
118	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
119	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
120	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
121	Conference	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
122	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
123	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
201	Conference	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
202	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
203	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
204	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
205	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
206	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
207	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
208	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
209	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
210	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
211	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
212	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
213	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
214	I.T.	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
215	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
216	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
217	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
218	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
219	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
220	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
221	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
222	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
223	Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
224	Open Office	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical
225	Elevator	None	None	None	None
226	Men	6" rubber cove	Epoxy Paint	Polished Concrete	2x4 Suspended Acoustical
227	Women	6" rubber cove	Epoxy Paint	Polished Concrete	2x4 Suspended Acoustical
228	Closet	4" rubber cove	Painted gyp. b'd	Polished Concrete	2x4 Suspended Acoustical

CEILING HEIGHT TO BE 9'0" AFF EXCEPT ROOMS # 121,122,123,102,103,104 TO HAVE 10'0"  
CEILING HEIGHT. ROOM # 101 TO HAVE CEILING HEIGHT OF 10'6" AFF.

**Scharhag**  
HERMAN A. SCHARHAG COMPANY, ARCHITECTS

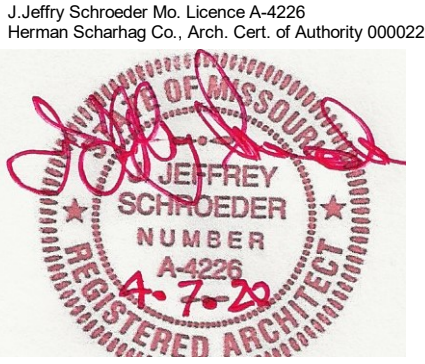
6247 Brookside Blvd. #204 Kansas City, Mo 64113  
Phone: 816-656-5055 Scharhag@att.net

Copyright 2016 Herman A. Scharhag Co., Architects  
All Rights Reserved. No part of these drawings may be reproduced in any form or by any electronic or mechanical means, without written permission.

NEW BUILDING FOR

REECE NICHOLS

222 SW Main Street



5	Owner Changes	4.1.2020
4	Owner Changes	Date 4
3	Owner Changes	6.15
No.	Description	Date
Revision Schedule		

Schedules

Project number	1981
Date	05/02/2019

A601

Scale	1/8" = 1'-0"
-------	--------------

# KEYED PLAN NOTES

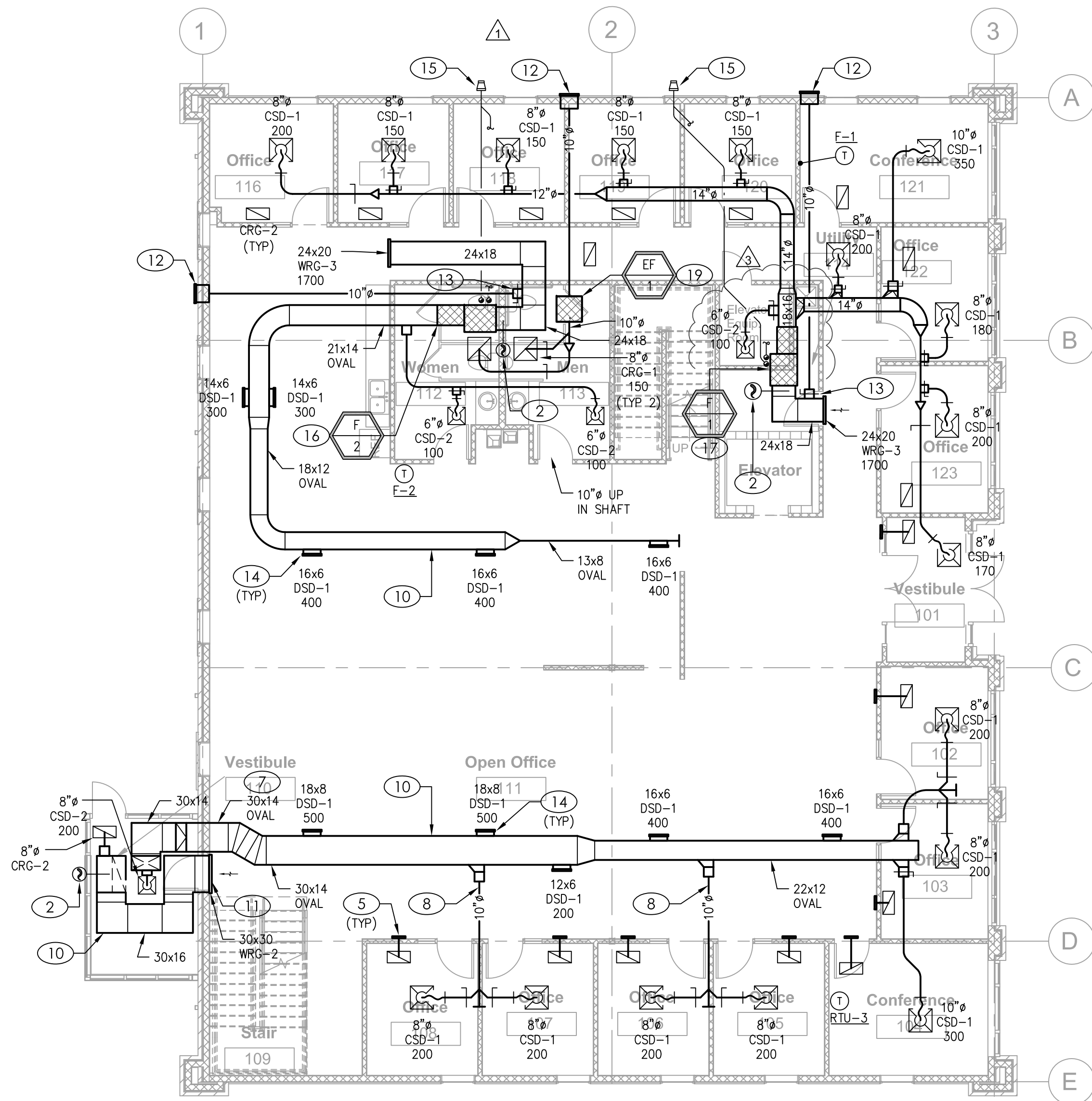
1. INSTALL NEW RTU ON EXISTING ROOF. COORDINATE WITH ELECTRICAL CONDUITS AND STRUCTURAL MEMBERS IN AREA. PROVIDE FULL SIZE SUPPLY AND RETURN AIR DUCTS DOWN THROUGH ROOF FROM RTU. DISCHARGE CONDENSATE DRAIN TOWARDS NEAREST ROOF DRAIN.
2. PROVIDE SMOKE DETECTOR IN RETURN AIR DUCT IN COMPLIANCE WITH NFPA 72. DUCT SMOKE DETECTOR SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM. DUCT SMOKE DETECTORS SHALL BE INTERLOCKED TO SHUT DOWN ALL HVAC UNITS UPON DETECTION OF SMOKE.
3. INSTALL CONDENSING UNIT ON ROOF ON PREMANUFACTURED PAD. WEATHER SEAL REFRIGERANT LINE PENETRATIONS OF BUILDING. SIZE, ROUTE AND SLOPE REFRIGERANT LINE SETS PER MANUFACTURER'S WRITTEN INSTRUCTIONS. PROVIDE ALL RECOMMENDED VALVES, FILTERS, FITTINGS, ETC. AND MAKE ALL NECESSARY CONNECTIONS TO COOLING COILS.
4. 12"x12" EXHAUST DUCT UP TO FAN ON ROOF. TRANSITION TO INLET OF FAN AS REQUIRED. LOCATED FAN A MINIMUM OF 10'-0" FROM OUTSIDE AIR INTAKE OF RTU.
5. TO FACILITATE TRANSFER AIR TO HALL, ON OFFICE SIDE PROVIDE 24x12 LAY-IN GRILLE EQUAL TO TITUS 50F. CONNECT 8" FLEX DUCT TO 10x10 WALL GRILLE ON HALL SIDE. EQUAL TO TITUS 350R. LOCATE WALL GRILLE WITH TOP 12" FROM CEILING.
6. ROUTE AS HIGH AS POSSIBLE UP NEXT TO BEAM ALONG COLUMN LINE 2.
7. TRANSITION DUCTWORK TO OVAL SPIRAL DUCT.
8. USE SPIRAL DUCT WHERE EXPOSED TO VIEW.
9. UNDERCUT DOOR IN ORDER TO PROVIDE PATH FOR TRANSFER AIR. COORDINATE WITH GENERAL CONTRACTOR.
10. ROUTE DUCTWORK UNDER STRUCTURAL MEMBERS AS HIGH AS POSSIBLE.
11. INSTALL RETURN GRILLE HIGH ON WALL WITH TOP 6" FROM CEILING.

# KEYED PLAN NOTES

12. PROVIDE 16"x16" LOUVER AT WALL, RUSKIN ELF675DX OR EQUAL, WITH MINIMUM FREE AREA OF 0.77 SQ-FT. LOUVER SHALL BE DRAINABLE AND HAVE BIRD SCREEN. PAINT LOUVER COLOR TO MATCH BUILDING. TRANSITION OUTSIDE AIR DUCTWORK TO LOUVER AS REQUIRED. COORDINATE WITH ARCHITECTURAL PLANS FOR LOCATION.
13. PROVIDE 10"Ø OUTDOOR AIR DUCT TO RETURN SIDE OF FURNACE. PROVIDE BALANCING DAMPER AND RUSKIN CDR25 ROUND CONTROL DAMPER WITH 120V SPRING RETURN ACTUATOR. INTERLOCK WITH FURNACE CONTROLS SO THAT CONTROL DAMPER IS OPEN WHEN THE FURNACE FAN IS ON AND CLOSED WHEN THE FURNACE FAN IS OFF.
14. ANGLE DIFFUSER DOWN 30° FROM HORIZONTAL.
15. ROUTE CONCENTRIC VENT TO EXTERIOR WALL. SIZE PER MANUFACTURER'S WRITTEN INSTRUCTION WHILE FOLLOWING SIZE, FITTING AND LENGTH LIMITATION. LOCATE WALL TERMINATION A MINIMUM OF 10'-0" FROM OUTSIDE AIR INTAKE.
16. MECHANICAL CONTRACTOR TO PROVIDE 3/4" CONDENSATE DRAIN FROM COOLING COILS TO NEARBY SINK. PROVIDE MINIMUM 3" DEEP TRAP THEN ROUTE DOWN IN WALL AND CONNECT TO SINK TAILPIECE WITH WYE FITTING. CONNECT ABOVE SINK'S TRAP.
17. MECHANICAL CONTRACTOR TO PROVIDE 3/4" CONDENSATE DRAIN FROM COOLING COILS TO FLOOR DRAIN. PROVIDE MINIMUM 3" DEEP TRAP THEN ROUTE DOWN IN WALL AND DISCHARGE TO FLOOR DRAIN WITH AIR GAP.
18. 48"x14" RETURN AIR DUCT DOWN FROM UNIT. TRANSITION TO UNIT RA OPENING AS REQUIRED. EXTEND DUCT DOWN FROM UNIT AND OFFSET MINIMUM 24" THEN TURN UP 12". LOCATE RETURN AIR OPENING ABOVE HALLWAY. PROVIDE 1/2" ACOUSTIC DUCT LINER. COORDINATE DUCTWORK WITH STRUCTURAL MEMBERS.
19. INLINE EXHAUST FAN. PROVIDE SPRING VIBRATION ISOLATORS.

GENERAL NOTES

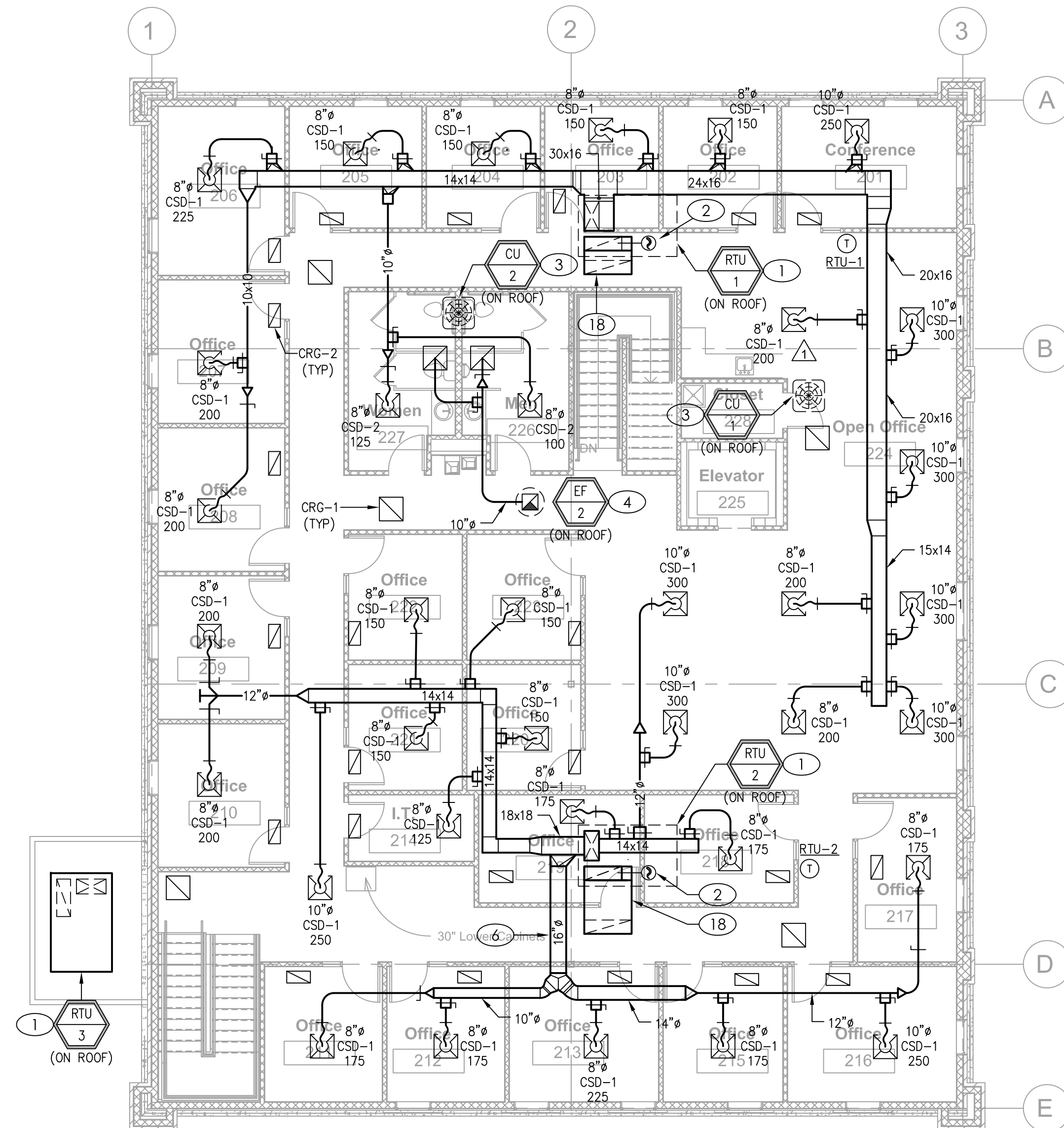
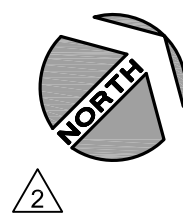
- A. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- B. COORDINATE INSTALLATION OF MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION AND AVOID CONFLICTS. INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE INSTALLATION OF DUCTWORK AND PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. VERIFY DUCT SPACE AVAILABLE ABOVE ALL CEILINGS PRIOR TO ANY FABRICATION OF INSTALLATION.
- C. NEW MECHANICAL EQUIPMENT, DUCTWORK AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL DUCTWORK AND PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE DUCTWORK AND PIPING WITHIN THE AVAILABLE SPACE.
- D. OVERHEAD HANGERS AND SUPPORTS FOR EQUIPMENT, DUCTWORK AND PIPING SHALL BE FASTENED TO BUILDING JOISTS OR BEAMS. DO NOT ATTACH HANGERS AND SUPPORTS TO THE ABOVE FLOOR SLAB OR ROOF.
- E. BRANCH DUCTWORK SHALL BE THE SAME SIZE AS NECK SIZE SHOWN UNLESS OTHERWISE NOTED.
- F. THE ELECTRICAL SYSTEM DESIGN IS BASED IN PART ON THE SPECIFIED HVAC EQUIPMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE ELECTRICAL REQUIREMENTS OF THE HVAC EQUIPMENT BEING FURNISHED. ANY CHANGES TO THE ELECTRICAL SYSTEM DUE TO HVAC EQUIPMENT OTHER THAN THE SPECIFIED EQUIPMENT BEING FURNISHED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.



FIRST FLOOR MECHANICAL PLAN

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

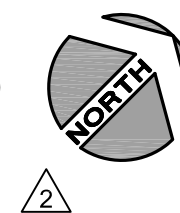
1



SECOND FLOOR MECHANICAL PLAN

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

2



New Building for:

REECE NICHOLS  
LEE'S SUMMIT, MO



04-07-2020

No.	Description	Date
1	PLANCHUCK/OWNER	04.26.19
2	CEILING CHANGE	07.12.19
3	SITE CHANGES	04.07.20

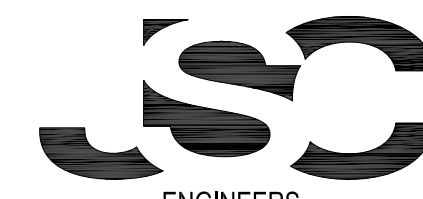
MECHANICAL  
PLAN

Project number 18-179  
Date 04/07/2020

M101

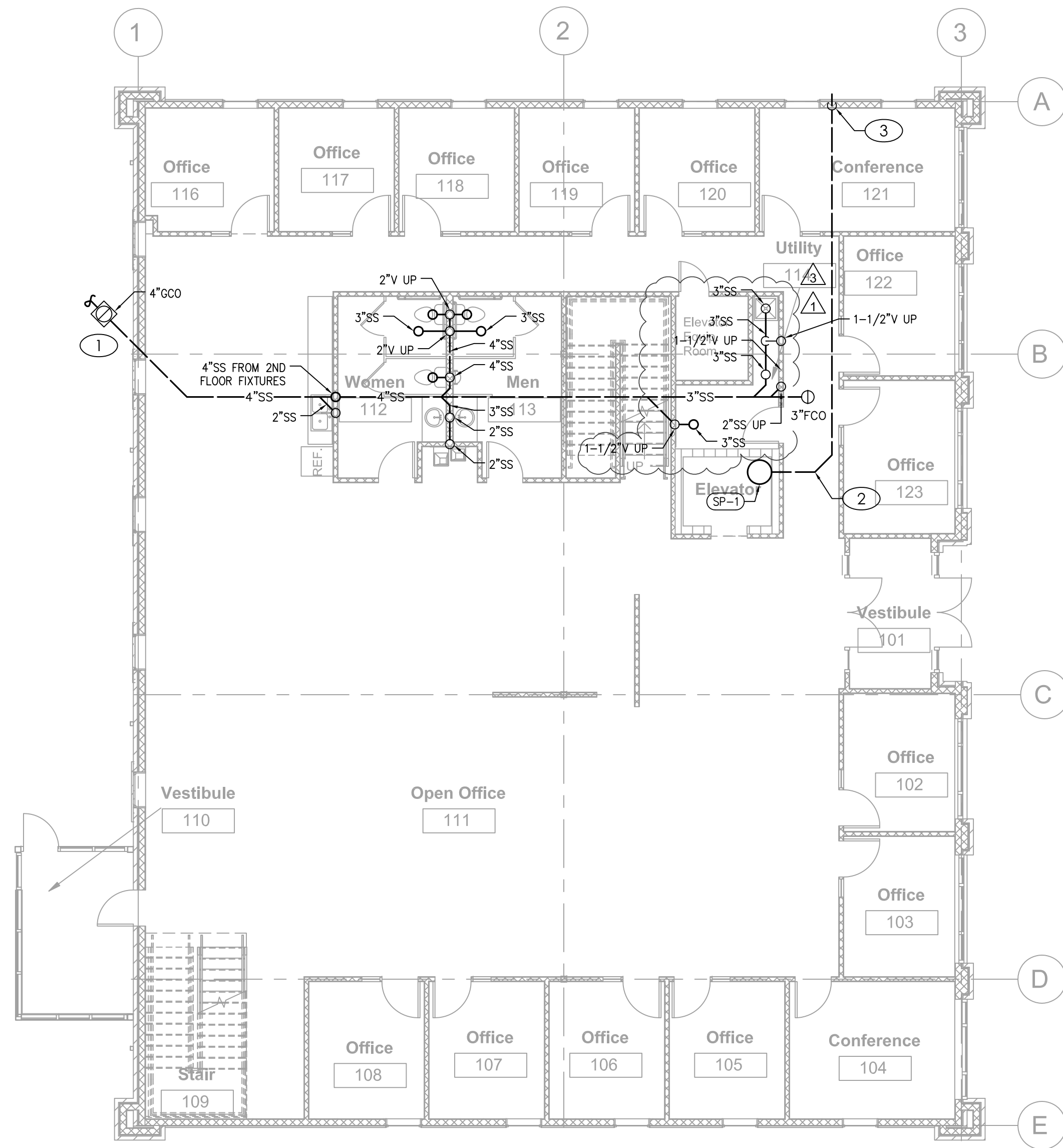
Copyright 2017 Herman A. Scharhag Co., Architects  
All Rights Reserved. No part of these drawings may be reproduced in any form or by any electronic or mechanical means, without written permission.

MEP ENGINEER:



ENGINEERS  
MO COA NO. 2012006786 / KS COA NO. E-2918  
1901 NW BLUE PARKWAY, UNITY VILLAGE, MO 64065  
3rd FLOOR UNITY VILLAGE TOWER  
phone: (816) 272-6289  
email: jsmothers@jscengineers.com

**scharhag**  
HERMAN A. SCHARHAG COMPANY, ARCHITECTS  
6247 Brookside Blvd. #204 Kansas City, Mo 64113  
Phone: 816-656-5055 Scharhag@att.net



UNDERGROUND WASTE PLAN

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

1

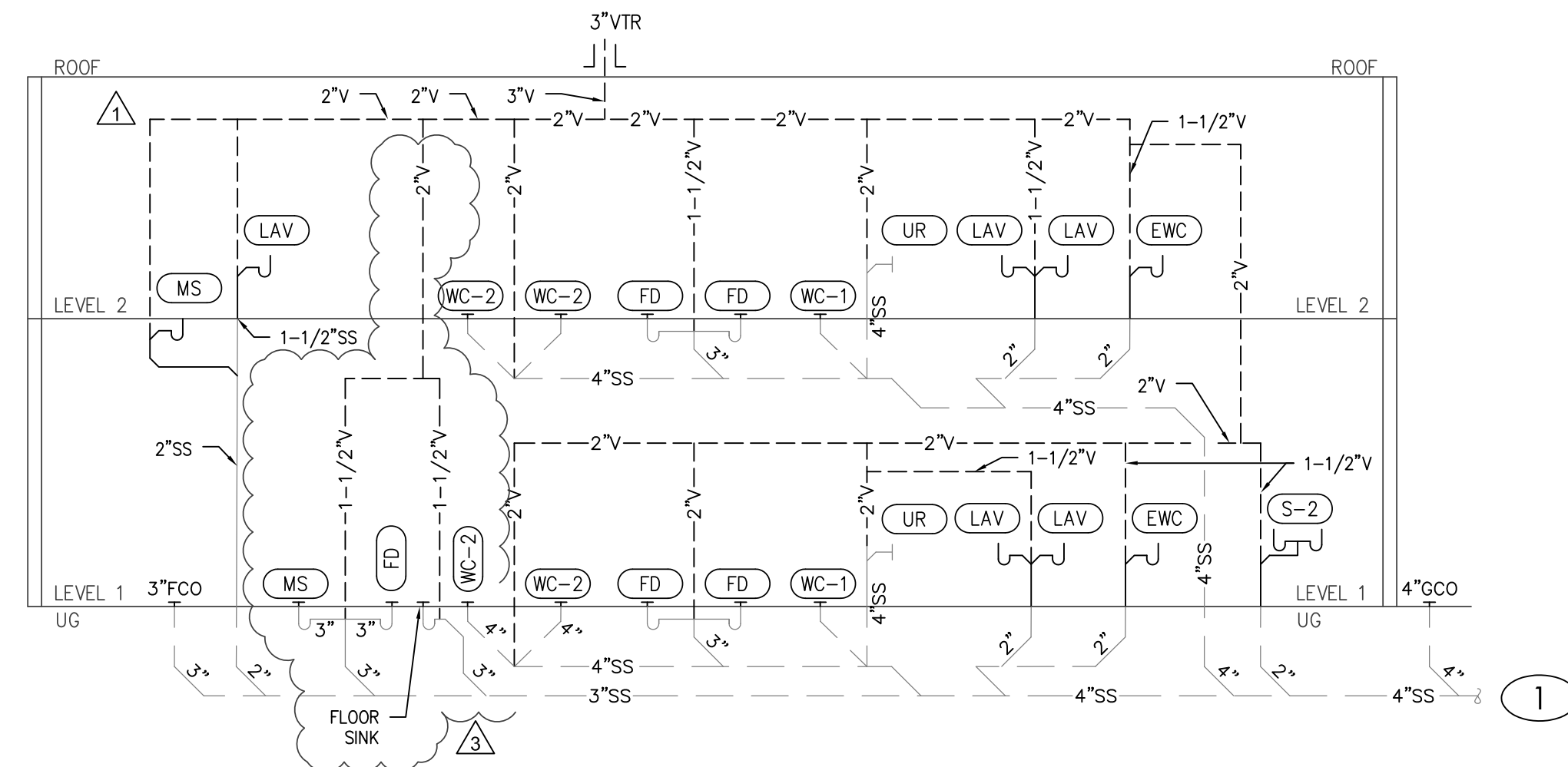


# KEYED PLAN NOTES

1. 4" SANITARY TO UTILITY SERVICE.. PLUMBING CONTRACTOR SHALL WORK WITH LOCAL WASTE WATER AUTHORITY FOR INSTALLATION OF A NEW SEWER LINE CONNECTING INTO THE SEWER MAIN. REFER TO CIVIL PLANS FOR CONTINUATION.
2. 2" SUMP PUMP DISCHARGE BELOW GRADE.
3. 2" SUMP PUMP DISCHARGE UP, DAYLIGHT 1'-0" AFG.

GENERAL NOTES

- A. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- B. PROVIDE THE ARCHITECT AND OWNER WITH A COPY OF THE INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS.
- C. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
- D. EXACT LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO ANY INSTALLATION OR CONNECTIONS THEREOF. ALL CONNECTIONS TO EXISTING UTILITIES (IE: WATER, SEWER & GAS) SHALL BE MADE WITH APPROVAL OF THE ADMINISTRATIVE AUTHORITY AND THE RESPECTIVE UTILITY COMPANY.
- E. COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL PIPING OVER ELECTRICAL PANELS.
- F. COORDINATE THE ROOF PENETRATIONS WITH OTHER TRADES. MAINTAIN 10' MINIMUM CLEARANCE FROM ALL AIR INTAKES. MAINTAIN 3' FROM ALL OTHER EQUIPMENT.



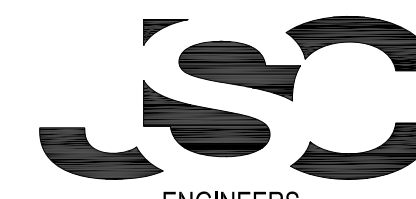
WASTE AND VENT RISER DIAGRAM

SCALE : NONE

2

Copyright 2017 Herman A. Scharhag Co., Architects  
All Rights Reserved. No part of these drawings may be reproduced in any form or by any electronic or mechanical means, without written permission.

MEP ENGINEER:



MO COA NO. 2012006786 / KS COA NO. E-2918  
1901 NW BLUE PARKWAY, UNITY VILLAGE, MO 64065  
3rd FLOOR UNITY VILLAGE TOWER  
phone: (816) 272-5289  
email: jsmothers@jscengineers.com

New Building for:

REECE NICHOLS  
LEE'S SUMMIT, MO



04-07-2020

No.	Description	Date
1	PLAN CHECK / OWNER	04.26.19
2	CEILING CHANGE	07.12.19
3	SITE CHANGES	04.07.20

PLUMBING  
PLAN -  
UNDERGROUND

Project number 18-179  
Date 04/07/2020

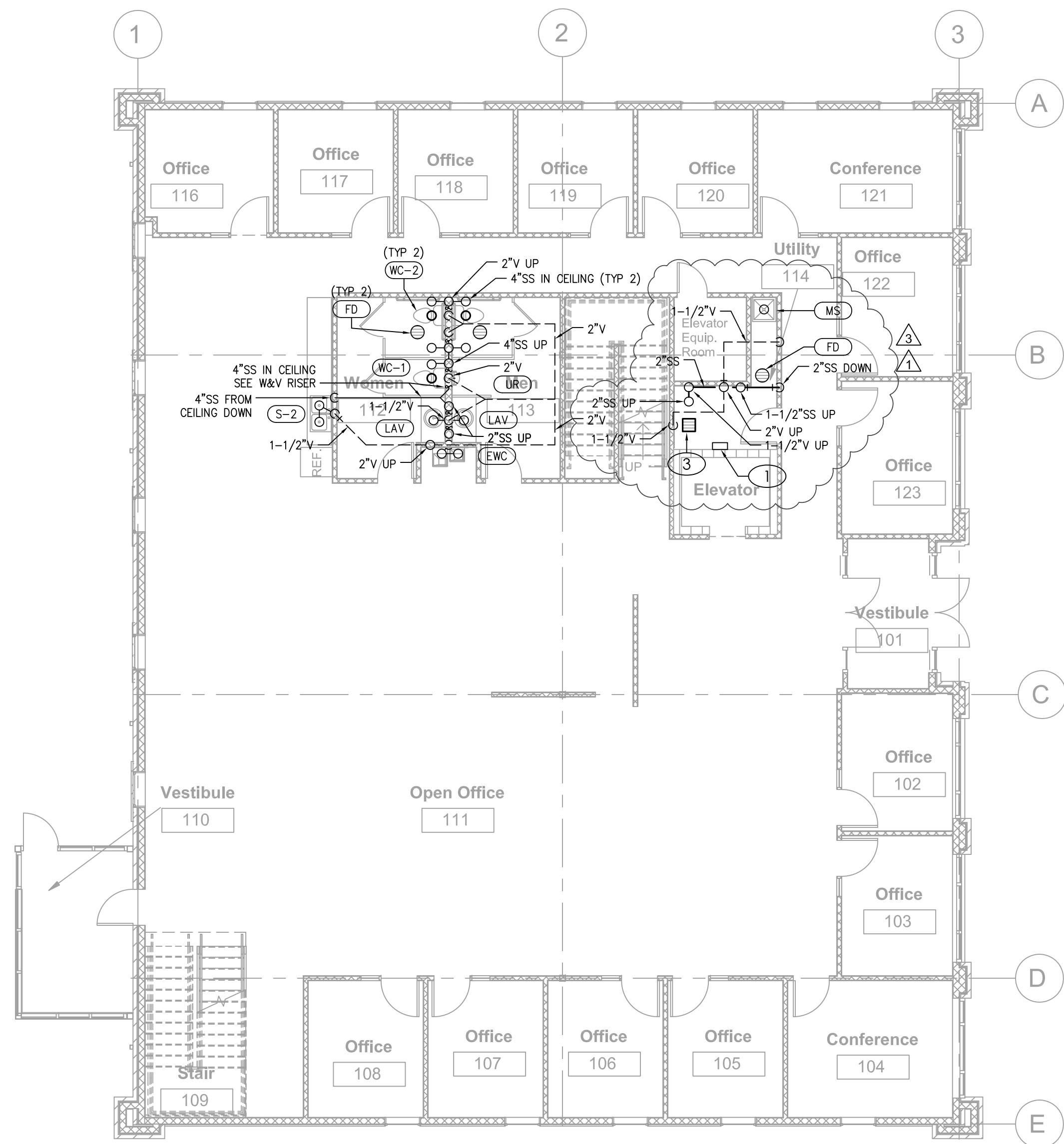
P101

## # KEYED PLAN NOTES

1. SUMP PUMP ALARM PANEL MOUNTED ON WALL. INSTALL PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT FROM PANEL TO PUMP. PROVIDE PUMP WITH POWER CORD OF SUFFICIENT LENGTH TO REACH PANEL.
2. LOCATION OF 3" VENT THRU ROOF. VERIFY 10'-0" CLEARANCE FROM ALL OUTDOOR AIR INTAKES. SEAL PENETRATION WEATHERTIGHT.
3. PROVIDE FLOOR SINK. ZURN Z1910, OR EQUAL, WITH 3" OUTLET.

## GENERAL NOTES

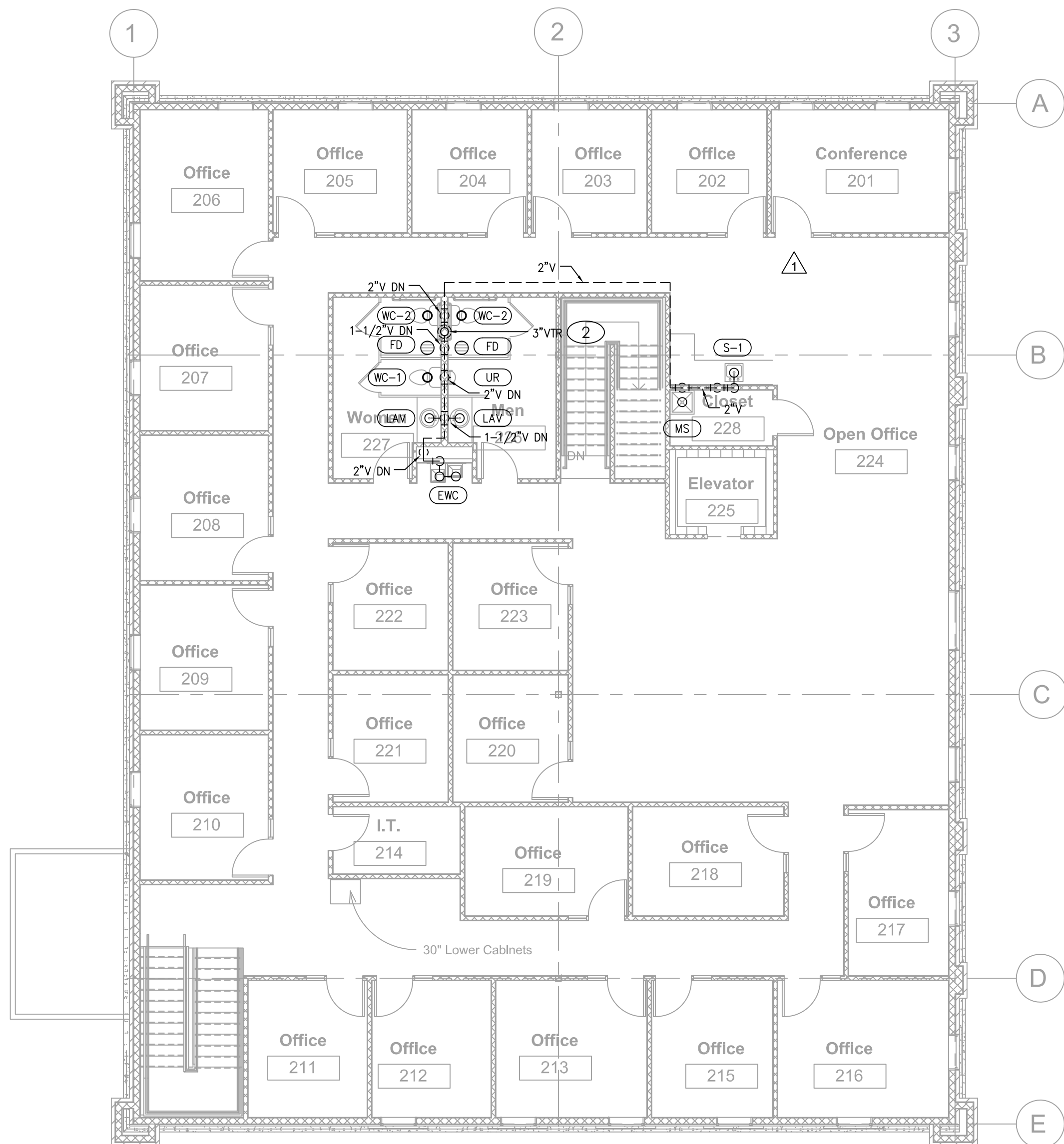
- A. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- B. PROVIDE THE ARCHITECT AND OWNER WITH A COPY OF THE INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS.
- C. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
- D. EXACT LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO ANY INSTALLATION OR CONNECTIONS THEREOF. ALL CONNECTIONS TO EXISTING UTILITIES (IE: WATER, SEWER & GAS) SHALL BE MADE WITH APPROVAL OF THE ADMINISTRATIVE AUTHORITY AND THE RESPECTIVE UTILITY COMPANY.
- E. COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL PIPING OVER ELECTRICAL PANELS.
- F. COORDINATE THE ROOF PENETRATIONS WITH OTHER TRADES. MAINTAIN 10' MINIMUM CLEARANCE FROM ALL AIR INTAKES. MAINTAIN 3' FROM ALL OTHER EQUIPMENT.



FIRST FLOOR WASTE & VENT PLAN

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

1



SECOND FLOOR WASTE & VENT PLAN

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

2

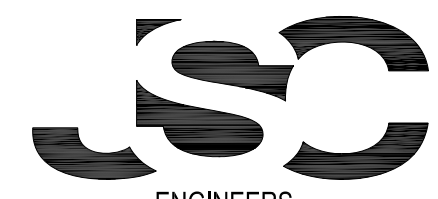


# scharhag

HERMAN A. SCHARHAG COMPANY, ARCHITECTS  
6247 Brookside Blvd. #204 Kansas City, Mo 64113  
Phone: 816-656-5055 Scharhag@att.net

Copyright 2017 Herman A. Scharhag Co., Architects  
All Rights Reserved. No part of these drawings may be reproduced in any form or by any electronic or mechanical means, without written permission.

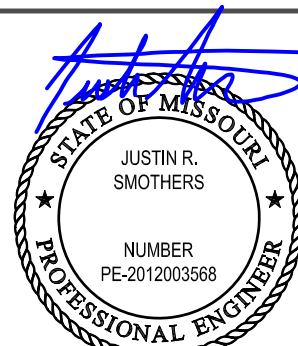
MEP ENGINEER:



ENGINEERS  
MO COA NO. 2012006786 / KS COA NO. E-2918  
1901 NW BLUE PARKWAY, UNITY VILLAGE, MO 64065  
3rd FLOOR UNITY VILLAGE TOWER  
phone: (816) 272-5289  
email: janothers@jseengineers.com

New Building for:

REECE NICHOLS  
LEE'S SUMMIT, MO



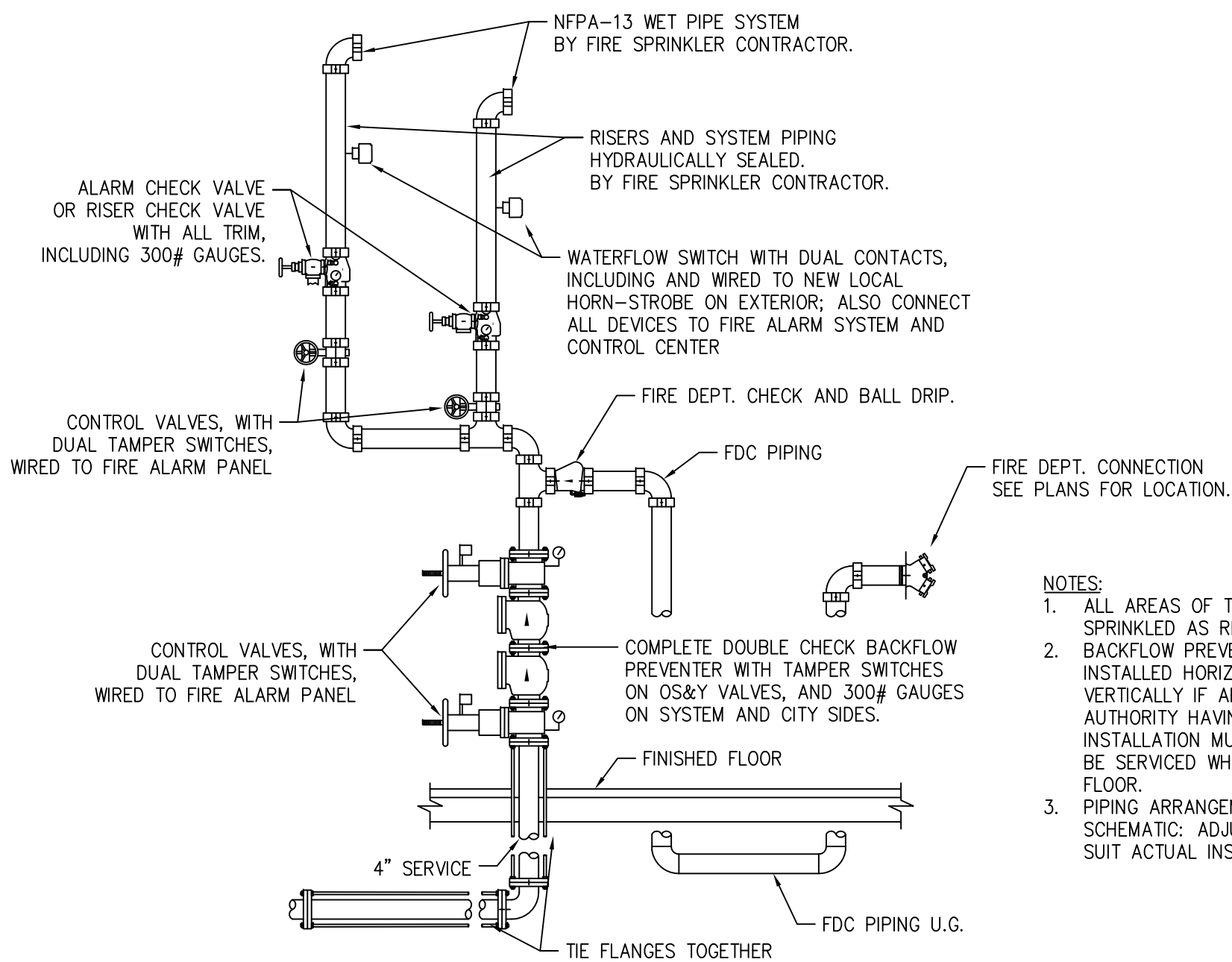
04-07-2020

No.	Description	Date
1	PLAN CHECK / OWNER	04.26.19
2	CEILING CHANGE	07.12.19
3	SITE CHANGES	04.07.20

PLUMBING  
PLAN - WASTE  
AND VENT

Project number 18-179  
Date 04/07/2020

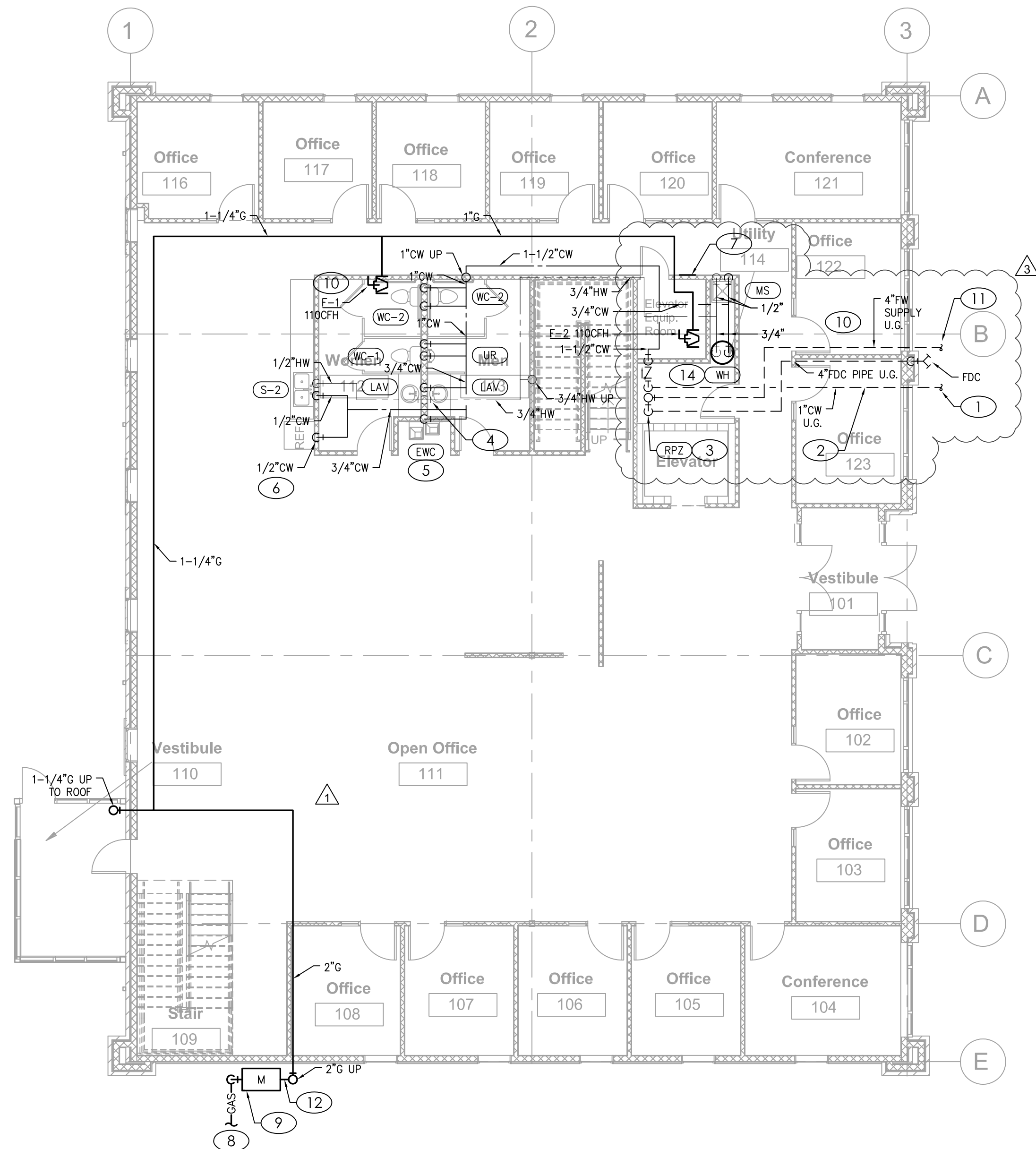
P102



## FIRE SPRINKLER RISER

SCALE : NO SCALE

3



## FIRST FLOOR WATER AND GAS PLAN

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

1



## KEYED PLAN NOTES

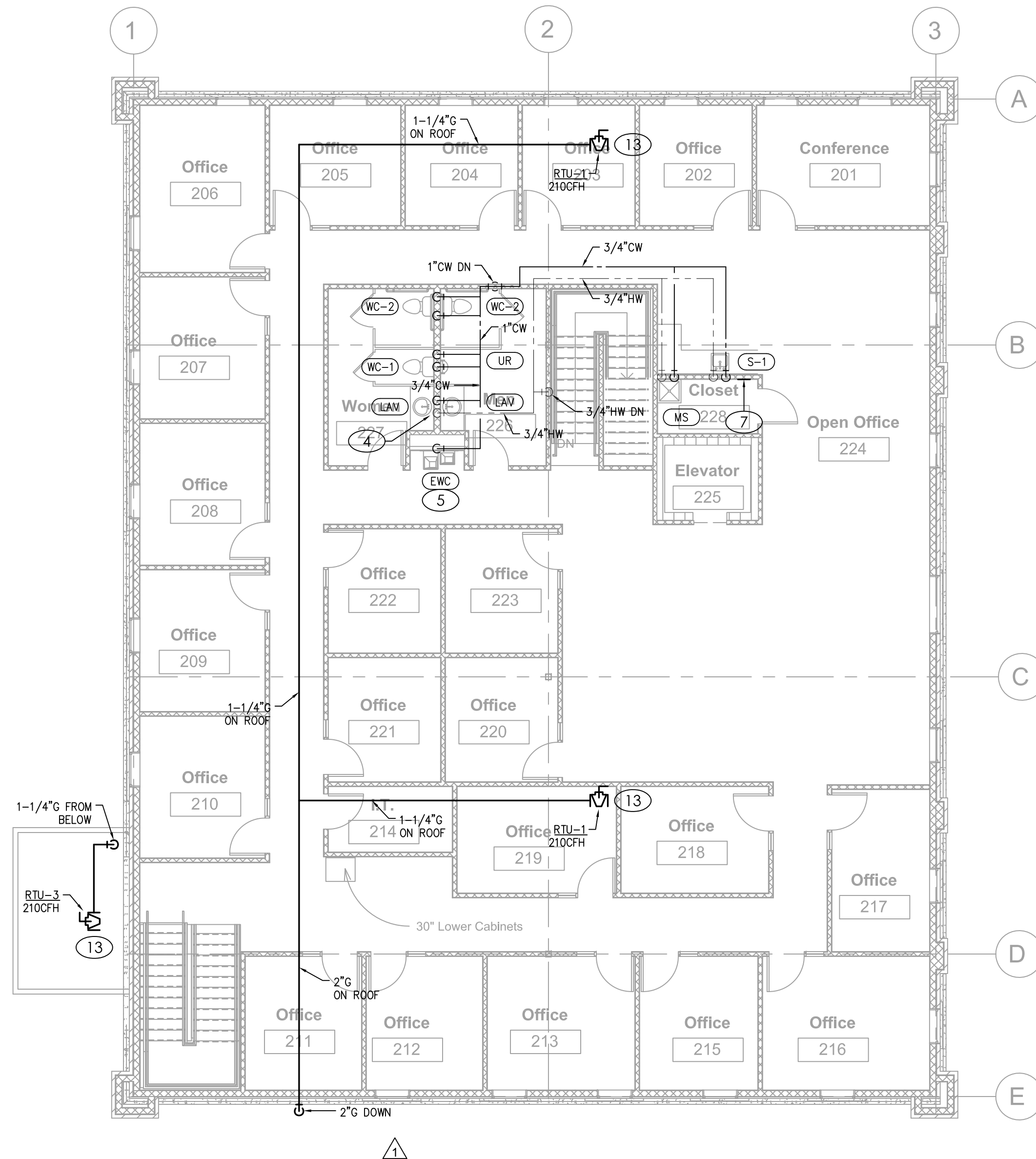
- CONTRACTOR SHALL WORK WITH THE WATER COMPANY (OR CITY WATER DEPARTMENT) AND BEAR ALL COSTS FOR THE INSTALLATION OF A NEW 1" WATER MAIN ENTRANCE, INCLUDING TAP, 1" METER, METER PIT, PIPING, ETC. FOR A COMPLETE INSTALLATION, THE CONTRACTOR SHALL MEET ALL STATE AND LOCAL CODE REQUIREMENTS OF THE PUBLIC WORKS DEPARTMENT. SEE CIVIL PLANS FOR CONTINUATION.
- ROUTE CW PIPING BELOW SLAB AND BRING UP INSIDE OF UTILITY ROOM.
- 1-1/2" BALL VALVE AND 1-1/2" RPZ BACKFLOW PREVENTER APPROVED FOR DOMESTIC WATER SERVICE. PROVIDE DRAIN FROM BFP TO FLOOR DRAIN AND DISCHARGE WITH AIR GAP. SEE INSTALLATION DETAIL ON SHEET P001 FOR ADDITIONAL COMPONENTS AND REQUIREMENTS.
- 3/4"HW AND 3/4"CW DOWN IN WALL TO BACK-TO-BACK LAVATORIES. PROVIDE 1/2"HW AND 1/2"CW TO EACH WITH THERMOSTATIC MIXING VALVE FOR FIXTURE EQUAL TO LEONARD MODEL 170. SET HW SUPPLY WATER TEMPERATURE TO 110°F.
- 1/2"CW DOWN TO ELECTRIC WATER COOLER.
- 1/2"CW DOWN TO ICE MAKER BOX. PROVIDE OUTLET BOX WITH 1/4 TURN VALVE AND WATER HAMMER ARRESTOR.
- DO NOT ROUTE PLUMBING PIPING OVER ELECTRICAL PANELS AND THEIR CLEAR SPACES (36" IN FRONT OF PANEL). COORDINATE WITH ELECTRICAL CONTRACTOR.

## KEYED PLAN NOTES

- CONTRACTOR SHALL WORK WITH THE LOCAL GAS COMPANY FOR THE INSTALLATION OF A NEW GAS METER FOR THE BUILDING, INCLUDING METER, PIPING, ETC. FOR A COMPLETE INSTALLATION, THE CONTRACTOR SHALL MEET ALL FEDERAL, STATE AND LOCAL CODE REQUIREMENTS OF THE GAS COMPANY. SEE CIVIL PLANS FOR CONTINUATION.
- COORDINATE WITH GAS COMPANY FOR INSTALLATION OF A METER WITH CAPACITY FOR 850 CFH @ 7" W.C. ROUTE 2-1/2" PIPING UP SIDE OF BUILDING. ALL CONCEALED JOINTS ARE TO BE WELDED OR USE FITTINGS APPROVED FOR CONCEALED USE. VERIFY ALL EQUIPMENT GAS CAPACITIES AND OPERATING PRESSURES PRIOR TO INSTALLATION OF ANY PIPING.
- 1" GAS TO FURNACE. PROVIDE DIRT LEG AND SHUT-OFF VALVE PRIOR TO FINAL CONNECTION.
- 4" FIRE SERVICE TO MAIN. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- 2-1/2" GAS FROM METER AND REGULATOR BELOW. ROUTE 2" GAS THROUGH WALL INTO FIRST FLOOR CEILING SPACE. CONTINUE UP TO ROOF WITH 2" GAS.
- 1-1/4" GAS TO RTU. PROVIDE DIRT LEG AND SHUT-OFF VALVE PRIOR TO FINAL CONNECTION.
- SUSPEND WATER HEATER FROM STEEL OVERHEAD. SEE DETAIL 3/P001 FOR ADDITIONAL INFORMATION.

## GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- PROVIDE THE ARCHITECT AND OWNER WITH A COPY OF THE INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS.
- VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
- INSTALL NO PLASTIC PIPING IN THE CEILING RETURN AIR PLENUM.
- EXACT LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO ANY INSTALLATION OR CONNECTIONS THEREOF. ALL CONNECTIONS TO EXISTING UTILITIES (IE: WATER, SEWER & GAS) SHALL BE MADE WITH APPROVAL OF THE ADMINISTRATIVE AUTHORITY AND THE RESPECTIVE UTILITY COMPANY.
- COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL PIPING OVER ELECTRICAL PANELS.
- SEE FIXTURE BRANCH CONNECTION SCHEDULE FOR MINIMUM SIZE OF FINAL BRANCH PIPING TO SERVE FIXTURES.



## SECOND FLOOR WATER AND GAS PLAN

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

2



**scharhag**  
HERMAN A. SCHARHAG COMPANY, ARCHITECTS  
6247 Brookside Blvd, #204 Kansas City, Mo 64113  
Phone: 816-656-5055 Scharhag@att.net

Copyright 2017 Herman A. Scharhag Co., Architects  
All Rights Reserved. No part of these drawings may be reproduced in any form or by any electronic or mechanical means, without written permission.

MEP ENGINEER:

**JSC**  
ENGINEERS  
MO COA NO. 2012006786 / KS COA NO. E-2918  
1901 NW BLUE PARKWAY, UNITY VILLAGE, MO 64065  
3rd FLOOR UNITY VILLAGE TOWER  
phone: (816) 272-5289  
email: jsmithers@jseengineers.com

New Building for:

**REECE NICHOLS**  
LEE'S SUMMIT, MO



04-07-2020

No.	Description	Date
1	PLANCHCK/OWNER	04.26.19
2	CEILING CHANGE	07.12.19
3	SITE CHANGES	04.07.20

PLUMBING  
PLAN - WATER  
AND GAS

Project number 18-179  
Date 04/07/2020

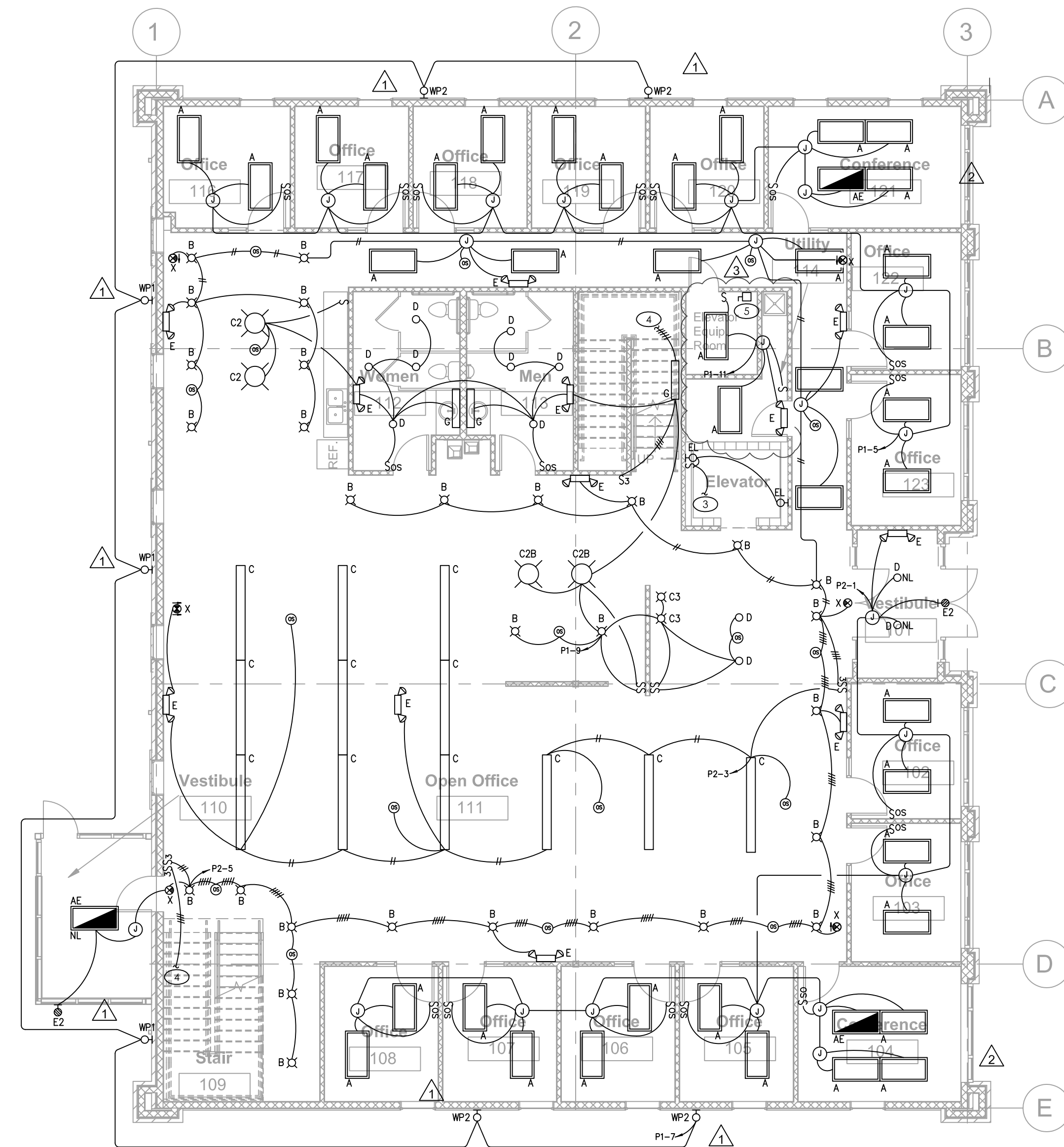
**P201**

# KEYED PLAN NOTES

1. PROVIDE JUNCTION BOX AND 120V CIRCUIT FOR CONNECTION TO ILLUMINATED SIGNAGE. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
2. TO FIXTURE BELOW. REFER TO FIRST FLOOR LIGHTING PLAN, THIS SHEET, FOR CIRCUIT CONTINUATION.
3. TO RECEPTACLE IN THIS ROOM. REFER TO FIRST FLOOR ELECTRICAL PLAN, SHEET E201, FOR CIRCUIT CONTINUATION.
4. TO FIXTURE ABOVE. REFER TO SECOND FLOOR LIGHTING PLAN, THIS SHEET, FOR CIRCUIT CONTINUATION.
5. PROVIDE MAIN LINE & 120V CAB LIGHT DISCONNECT. COORDINATE REQUIREMENTS WITH ELEVATOR EQUIPMENT MANUFACTURER PRIOR TO START OF WORK OR PURCHASE OF MATERIALS.

GENERAL NOTES - LIGHTING

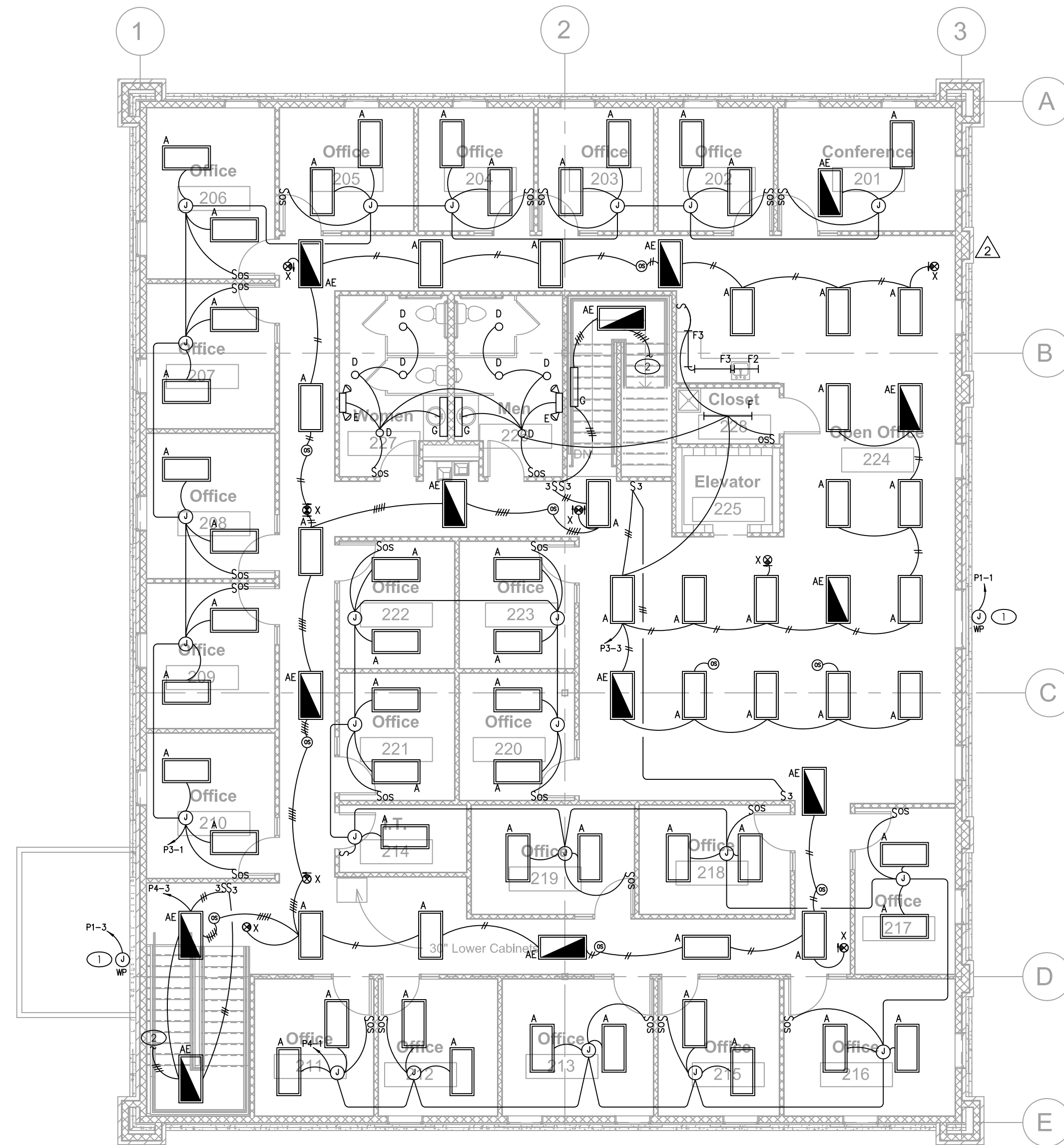
- A. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES.
- B. REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWING E301 FOR LIGHT FIXTURE TYPES AND REQUIREMENTS.
- C. CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTING UNITS TO THE INDICATED CIRCUIT WITH A SEPARATE AND UN-SWITCHED CONDUCTOR BYPASSING ALL CONTROLS AND CONTACTORS. REFER TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR PROPER INSTALLATION AND TESTING.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT COORDINATION AND CONFLICT ISSUES BE RESOLVED PRIOR TO INSTALLATION OF LIGHT FIXTURES.
- E. ROUTE ALL EXPOSED, RIGID CONDUIT TIGHT TO STRUCTURE, PARALLEL TO BUILDING LINES AND IN UNISTRUT CABLE/PIPE TRAY WHERE POSSIBLE. COORDINATE CONDUIT ROUTING AND INSTALLATION WITH OTHER TRADES PRIOR TO ROUGH-IN. SUPPORT CONDUIT FROM STRUCTURE NOT ROOF DECK. MAINTAIN 2" MIN SPACING FROM BOTTOM OF ROOF DECK TO PREVENT ROOFING SCREWS FROM PENETRATING CONDUITS.
- F. THROUGH WIRING OF RECESSED LIGHT FIXTURES, IN SUSPENDED CEILING, IS NOT PERMITTED. CONNECT EACH LIGHT FIXTURE BY A WHIP TO A JUNCTION BOX. PROVIDE CABLE WHIPS OF SUFFICIENT LENGTH TO ALLOW FOR RELOCATING EACH LIGHT FIXTURE WITHIN A 5-FOOT RADIUS OF ITS INSTALLED LOCATION, BUT NOT EXCEEDING 6 FEET IN UNSUPPORTED LENGTH.
- G. ALL INTERNALLY ILLUMINATED SIGNS SHALL BE PROVIDED WITH AN ACCESSIBLE DISCONNECTION MEANS. VERIFY EACH SIGN IS FURNISHED WITH AN INTEGRAL DISCONNECT SWITCH. PROVIDE WEATHERPROOF DISCONNECT SWITCHES WITHIN SIGHT OF ALL SIGNS AS REQUIRED. MAKE FINAL CONNECTION AS REQUIRED.



FIRST FLOOR LIGHTING PLAN

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

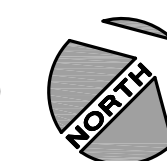
1



SECOND FLOOR LIGHTING PLAN

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

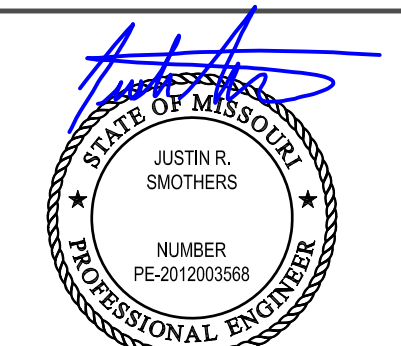
2



New Building for:

REECE NICHOLS

LEE'S SUMMIT, MO



04-07-2020

No.	Description	Date
1	PLANCHUCK/OWNER	04.26.19
2	CEILING CHANGE	07.12.19
3	SITE CHANGES	04.07.20

1ST & 2ND  
FLOOR  
LIGHTING  
PLAN

Project number 18-179  
Date 04/07/2020

E101

scharhag

HERMAN A. SCHARHAG COMPANY, ARCHITECTS  
6247 Brookside Blvd. #204 Kansas City, Mo 64113  
Phone: 816-656-5055 Scharhag@att.net

Copyright 2017 Herman A. Scharhag Co., Architects  
All Rights Reserved. No part of these drawings may be  
reproduced in any form or by any electronic or  
mechanical means, without written permission.

MEP ENGINEER:



MO COA NO. 2012006786 / KS COA NO. E-2918  
1901 NW BLUE PARKWAY, UNITY VILLAGE, MO 64065  
3rd FLOOR UNITY VILLAGE TOWER  
phone: (816) 272-5289  
email: jsmothers@jseengineers.com

## # KEYED PLAN NOTES

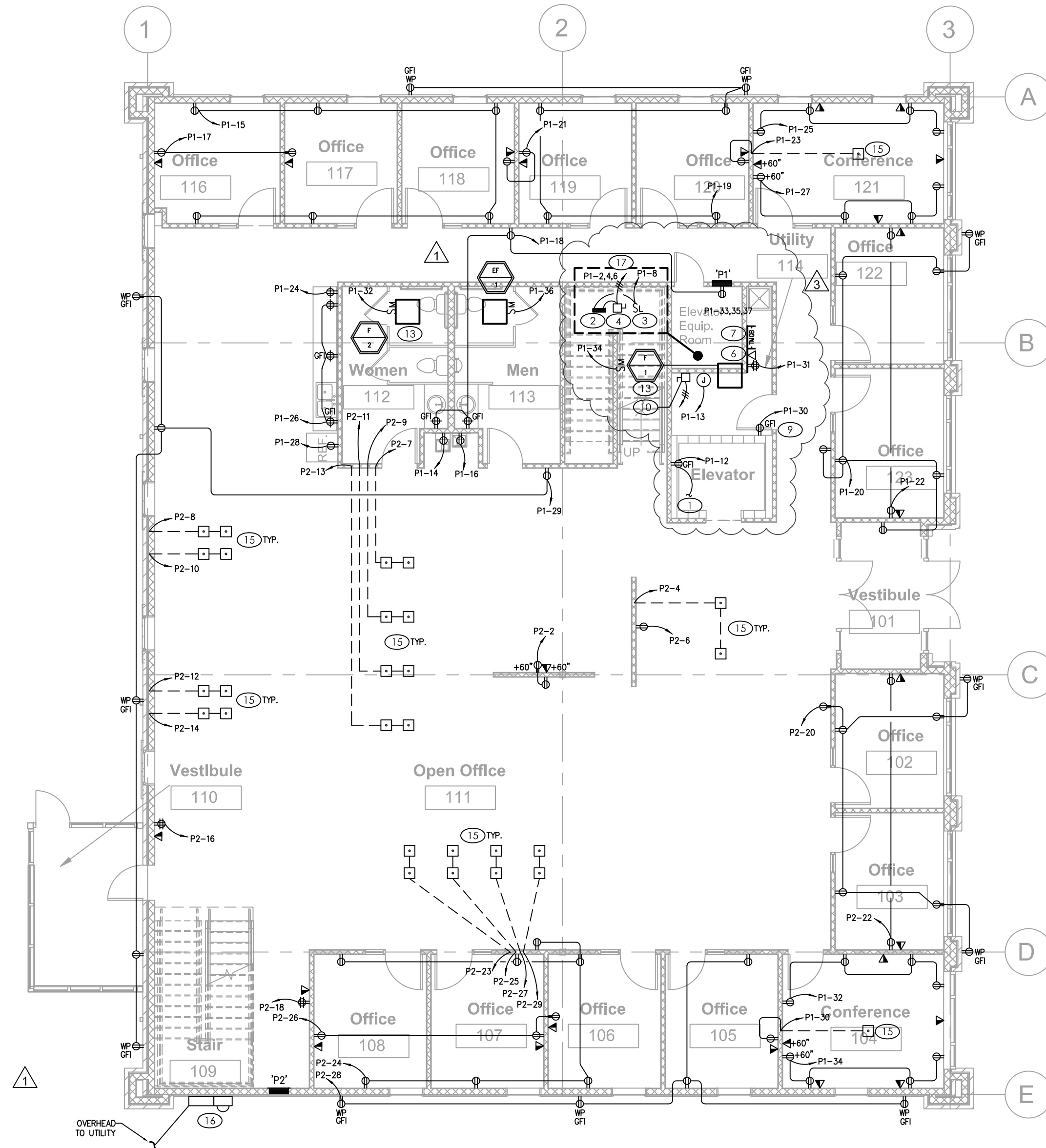
- TO LIGHT FIXTURE IN THIS ROOM. REFER TO FIRST FLOOR LIGHTING PLAN, SHEET E101, FOR CIRCUIT CONTINUATION.
- ELEVATOR CONTROLLER. PROVIDE (1) 3/4" CONDUIT TO TELEPHONE BACKBOARD FOR DEDICATED PHONE LINES.
- PROVIDE LOCKABLE SWITCH FOR ELEVATOR CAB LIGHTING AND CONTROLS.
- PROVIDE NEMA 1, 240V/30A/3P FUSED DISCONNECT SWITCH WITH (3) 25A RK5 FUSES. PROVIDE (4)#10 CU + (1)#10 CU GRND. IN 3/4" CONDUIT FOR HOMERUN AND CONNECTION TO THE CONTROLLER.
- PROVIDE NEMA 1, 240V/30A/3P FUSED DISCONNECT SWITCH WITH (3) 25A RK5 FUSES AT TOP OF HOISTWAY. PROVIDE (4)#10 CU + (1)#10 CU GRND. IN 3/4" CONDUIT BACK TO FUSED DISCONNECT SWITCH IN UTILITY 114. REFER TO FIRST FLOOR POWER PLAN, THIS SHEET, FOR LOCATION.
- PROVIDE NEW VOID FREE TENANT TELEPHONE TERMINAL BACKBOARD, 3/4" DEEP X 4' WIDE X 4' HIGH MADE OF FIRE RETARDANT RATED AC PLYWOOD, ROT TREATED. PROVIDE HOFFMAN ENCLOSURE #ATC42R369 OR EQUAL, WITH NECESSARY PATCH PANELS AND SECURE TO BOARD FOR TELEPHONE AND DATA TERMINATIONS. PROVIDE (2) 2" CONDUIT, UNDERGROUND, TO CATV AND TELEPHONE SERVICE PROVIDERS' DEMARCATION POINTS.
- PROVIDE (1) 1/4" X 4" HIGH X 24" WIDE COPPER TELECOMMUNICATIONS MAIN GROUNDING BAR (TMGB) AND CONNECT VIA (1) #1/0 CU GRND. IN 3/4" CONDUIT TO BUILDING MAIN GROUNDING SYSTEM.

## # KEYED PLAN NOTES

- PROVIDE (1) 1/4" X 2" HIGH X 24" WIDE COPPER TELECOMMUNICATIONS GROUNDING BAR (TGB) AND CONNECT VIA (1) #1/0 CU TELECOMMUNICATIONS BONDING BACKBONE IN 3/4" CONDUIT TO TMGB.
- RECEPTACLE FOR ELEVATOR PIT SUMP PUMP. PROVIDE (3) 1" CONDUITS FOR POWER AND CONTROL WIRING TO SUMP PIT, AND MAKE ALL FINAL ELECTRICAL CONNECTIONS TO SUMP PUMP CONTROL PANEL PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE NEMA 1, 240V/30A/3P NON-FUSED DISCONNECT SWITCH FOR WATER HEATER. MAKE ALL FINAL ELECTRICAL CONNECTIONS. LOCATE DISCONNECT IN ACCESSIBLE LOCATION IN LARGER PART OF ROOM WITHIN SITE OF WATER HEATER.
- PROVIDE NEMA 3R, 240V/60A/3P FUSED DISCONNECT SWITCH WITH (3) RK5-60A FUSES AND (4)#4 CU + (1)#8 CU GRND. IN 1-1/2" CONDUIT. MAKE ALL FINAL ELECTRICAL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE WEATHERPROOF, GFI RECEPTACLE MOUNTED TO NON-REMOVABLE PANEL OF MECHANICAL EQUIPMENT. CONNECT 120V POWER (CIRCUIT P4-24) TO RECEPTACLE.
- PROVIDE 120V POWER (CIRCUIT P3-24) TO DUCT DETECTOR MOUNTED IN RETURN DUCT. REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF DUCT DETECTOR.
- PROVIDE NEMA 3R, 240V/60A/2P FUSED DISCONNECT SWITCH WITH (2) RK5-60A FUSES AND (3)#4 CU + (1)#8 CU GRND. IN 1-1/2" CONDUIT. MAKE ALL FINAL ELECTRICAL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.
- COORDINATE EXACT LOCATION OF FLOOR BOXES/POKE-THRU WITH FINAL TENANT FURNITURE LAYOUT PRIOR TO ROUGH-IN.
- NEW SERVICE ENTRANCE RATED NEMA 3R METER CENTER, 600 AMP MAIN CIRCUIT BREAKER, 208Y/120V, 3ø, 4W. PROVIDE (4) 200 AMP METER SOCKETS WITH (4) 200A/3P BREAKERS. SEE SINGLE LINE DIAGRAM.
- COORDINATE ALL REQUIREMENT WITH ELEVATOR MANUFACTURER'S EQUIPMENT DRAWINGS AND INSTALLATION MANUAL PRIOR TO START OF WORK OR PURCHASE OF ANY MATERIALS.

## GENERAL NOTES - POWER

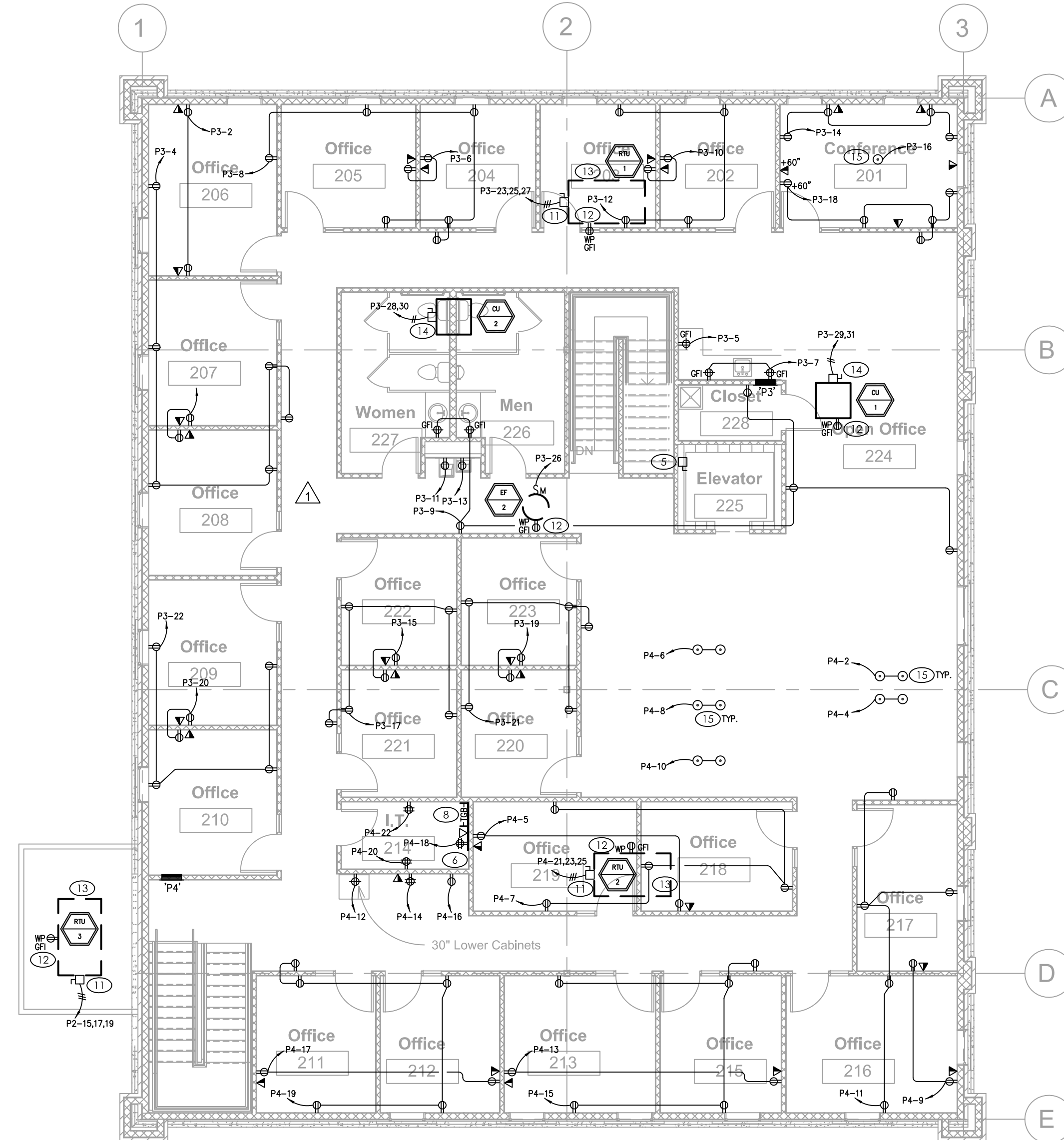
- DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS OR FIELD MEASUREMENTS FOR DIMENSIONS.
- ALL WORK SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70) AND ALL LOCAL BUILDING CODES AND AMENDMENTS.
- ALL ROOF AND WALL PENETRATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. PROVIDE ALL REQUIRED SLEEVES, FLASHINGS, CURBS, REINFORCED ANGLES, SUPPORTING FRAMES, ETC. UNLESS THEY ARE SPECIFICALLY CALLED OUT TO BE FURNISHED BY OTHERS.
- COORDINATE ALL WORK WITH OTHER TRADES AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACE AVAILABLE, AND WITHOUT INTERFERENCES.
- THE ELECTRICAL SYSTEM DESIGN IS BASED IN PART ON THE SPECIFIED HVAC AND PLUMBING EQUIPMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE EXACT LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT BEING FURNISHED. ANY CHANGES TO THE ELECTRICAL SYSTEM DUE TO HVAC EQUIPMENT SUBSTITUTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- ALL WIRING SHALL BE IN APPROVED RACEWAY.
- WIRE SIZE SHALL BE MINIMUM #12 AWG, THWN SOLID COPPER UNLESS OTHERWISE NOTED. PROVIDE GROUND WIRE WHERE REQUIRED BY CODE. INCREASE WIRE SIZE TO COMPENSATE FOR VOLTAGE DROP WHERE TOTAL LENGTH OF ANY BRANCH EXCEEDS 100 FEET.
- FIRE ALARM, AUDIO/VIDEO AND SURVEILLANCE SYSTEMS BY OTHERS.



FIRST FLOOR POWER PLAN

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

1



SECOND FLOOR POWER PLAN

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

2



New Building for:

**REECE NICHOLS**  
LEE'S SUMMIT, MO



No.	Description	Date
1	PLANCH/OWNER	04.26.19
2	CEILING CHANGE	07.12.19
3	SITE CHANGES	04.07.20

1ST & 2ND  
FLOOR  
POWER  
PLAN

Project number 18-179  
Date 04/07/2020

**E201**

**scharhag**

HERMAN A. SCHARHAG COMPANY, ARCHITECTS  
6247 Brookside Blvd. #204 Kansas City, Mo 64113  
Phone: 816-656-5055 Scharhag@att.net

Copyright 2017 Herman A. Scharhag Co., Architects  
All Rights Reserved. No part of these drawings may be reproduced in any form or by any electronic or mechanical means, without written permission.

MEP ENGINEER:



MO COA NO. 2012008786 / KS COA NO. E-2918  
1901 NW BLUE PARKWAY, UNITY VILLAGE, MO 64065  
3rd FLOOR UNITY VILLAGE TOWER  
phone: (816) 272-5289  
email: jsmothers@jseengineers.com