

**PROJECT DESCRIPTION**

THE EXTENTS OF THIS PROJECT INCLUDE THE CONSTRUCTION OF NEW EXAM ROOMS, LAB ROOMS, RESTROOMS, OFFICES AND WAITING AREAS ASSOCIATED WITH THE EXISTING OB-GYN PRACTICE. THIS IS A TENANT IMPROVEMNT WITHIN AN EXISTING STRCUTURE.

FIRE SPRINKLERS, SMOKE DETECTORS AND CARBON MONOXIDE DETECTORS ARE ALL A DEFERRED SUBMITTAL.

**SPECIAL INSPECTIONS**

SOME PROPERTIES ARE SUBJECT TO SPECIAL CONDITIONS WHICH CAN EFFECT DEVELOPMENT REQUIREMENTS AND/OR THE TYPE OF INFORMATION REQUIRED TO BE SUBMITTED FOR BUILDING APPROVAL.

**PROJECT CONSULTANTS**

**GENERAL CONTRACTOR:** PHOENIX PROPERTY GROUP  
JAY POYNER  
15411 W. WADDELL RD. SUITE 106  
SURPRISE, AZ 85379  
602-374-2302

**STRUCTURAL ENGINEER:** UDALL ENGINEERING  
BRIAN UDALL  
18161 W. LAS CRUCAS DR.  
GOODYEAR, AZ 85338  
480-383-3351

**MECHANICAL ENGINEER:** KRAEMER CONSULTING ENGINEERS  
ROBERT OGBORNE  
2050 W. WHISPERING WIND DR. SUITE #15  
PHOENIX, ARIZONA 85085  
602-285-1669

**PLUMBING ENGINEER:** KRAEMER CONSULTING ENGINEERS  
ALEX VERDUGO  
2050 W. WHISPERING WIND DR. SUITE #15  
PHOENIX, ARIZONA 85085  
602-285-1669

**ELECTRICAL ENGINEER:** KRAEMER CONSULTING ENGINEERS  
JOHN KRELL  
2050 W. WHISPERING WIND DR. SUITE #15  
PHOENIX, ARIZONA 85085  
602-285-1669

**SITE DATA**

**OWNER(S):** HELEN BOUCHARD-BUJAK  
**APN:** 107-43-114  
**ZONING:** PSC  
**LOT SIZE:** 106,760 SQFT. (2.45 ACRES)

**BUILDING CODES**

- 2018 INTERNATIONAL BUILDING CODE
- 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL PLUMBING CODE
- 2017 NATIONAL ELECTRIC CODE
- 2015 INTERNATIONAL ENERGY CONSERVATION CODE
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

**BUILDING DATA**

**USE:** BUSINESS & HEALTHCARE  
**REMODEL:** YES  
**OCCUPANCY:** A-3, B, I-2  
**SPRINKLERED:** YES  
**SEPARATION REQUIRED:** NO  
**CONSTRUCTION TYPE:** TYPE I, II  
**FIRST FLOOR AREA (SQFT):** 11,033  
**SECOND FLOOR AREA (SQFT):** 4,045  
**TOTAL UNIT AREA (SQFT):** 15,078  
**TOTAL NUMBER OF FLOORS:** 2  
**TOTAL NEW OCCUPANT LOAD:** 60 PERSONS  
**EXISTING PLUMBING FIXTURE COUNT:** 19  
**NEW PLUMBING FIXTURE COUNT:** 27  
**TOTAL PLUMBING FIXTURE COUNT:** 46

**EXITING CALCULATIONS**

**TOTAL OCCUPANT LOAD:** 145  
**TOTAL NUMBER OF EXITS REQUIRED:** 3  
**TOTAL NUMBER OF EXITS PROVIDED:** 3  
**TOTAL EXIT WIDTH REQUIRED:** 108"  
**TOTAL EXIT WIDTH PROVIDED:** 108"  
**MAX. TRAVEL DISTANCE W/ SPRINKLERS:** 150'-0"

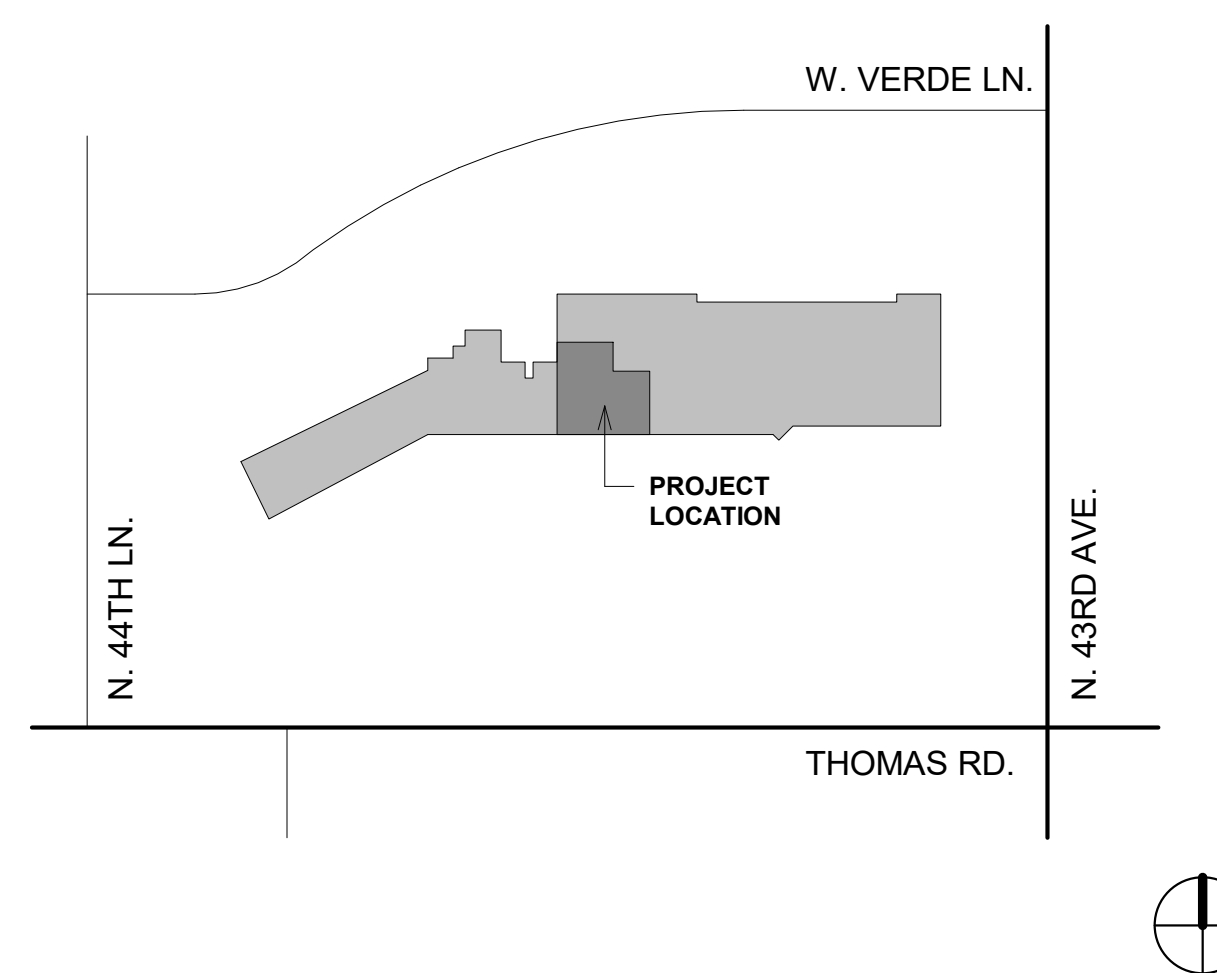
**DEFERRED SUBMITTALS**

1. TRUSSES ARE A DEFERRED SUBMITTAL
2. JOISTS ARE A DEFERRED SUBMITTAL
3. GIRDER TRUSSES AREA DEFERRED SUBMITTAL
4. SPRINKLERS ARE A DEFERRED SUBMITTAL

**GENERAL NOTES**

1. ALL WORK SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE.
2. DO NOT SIGNIFICANTLY VARY OR MODIFY THE WORK SHOWN WITHOUT WRITTEN INSTRUCTIONS FROM THE DESIGNER.
3. REPORT ERRORS AND OMISSIONS TO THE DESIGNER IMMEDIATELY.
4. THESE DRAWINGS ARE THE PROPERTY OF B.E. DESIGNS AND MAY BE REPRODUCED ONLY WITH WRITTEN PERMISSION. AUTHORIZED REPRODUCTIONS MUST BEAR THE NAME AND SIGNATURE OF THE DESIGNER.
5. WORKING DRAWINGS BY THEIR VERY NATURE ARE DIAGRAMMATIC AND DO NOT PROVIDE ALL DETAILS OR CONDITIONS OF CONSTRUCTION. HOWEVER, QUESTIONS MAY ARISE AS TO THE DESIGN INTENT AND TO CONSTRUCTION TECHNICAL DETAILING WITHIN THESE DRAWINGS. AS CLARIFICATIONS, INTERPRETATIONS, AND REVISIONS ARE PART OF THE CONSTRUCTION PROCESS, BE DESIGNS SHALL NOT BE LIABLE FOR ANY DIRECT, INDIRECT OR CONSEQUENTIAL DAMAGES AS A RESULT OF NOT PARTICIPATING IN THE CONSTRUCTION PROCESS.
6. ARCHITECTURAL DRAWINGS MUST ALWAYS BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT SERVICES DRAWINGS AND CONTRACT DOCUMENTS. ANY DISCREPANCY BETWEEN THESE DRAWINGSAND DOCUMENTS SHOULD BE REPORTED TO THE ENGINEER FOR CLARIFICATION AND VERIFICATION.
7. THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL FLOOR/WALL SLEEVES AND SHAFTS IN CONCRETE SLABS/WALLS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL AND ARCHITECTURAL DRAWINGS AND DISCREPANCIES, IF ANY, TO BE BROUGHT TO NOTICE OF THE ENGINEER PRIOR TO EXECUTION OF WORK.
8. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILED. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE DESIGNER OR ENGINEER BEFORE PROCEEDING WITH WORK.
9. ALL DETAILS ARE TO BE COORDINATED WITH THE STRUCTURAL FRAMING, INTERIOR FINISHES AND OTHER RELATED BUILDING COMPONENTS IN ORDER TO PROVIDE A COMPLETE ENCLOSURE OF FINISH MATERIAL.
10. UNLESS INDICATED OTHERWISE, ALL MATERIAL FURNISHED AND INCORPORATED INTO THE WORK SHALL BE NEW, UNUSED AND OF QUALITY STANDARD TO THE INDUSTRY FOR FIRST CLASS WORK OF SIMILAR NATURE AND CHARACTER. INSTALL ALL MATERIALS TO THE MANUFACTURER'S RECOMMENDATIONS AND BEST STANDARD OF THE TRADES INVOLVED.
11. CHECK WITH THE OWNER FOR COORDINATION OF THE WORK UNDER THIS CONTRACT WITH WORK OF OTHER TRADES. OWNER'S REGULATIONS GOVERN ALL ASPECTS OF OUTSIDE CONTRACTORS WORKING ON THE PROPERTY.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING BUILDINGS AND OTHER INSTALLATIONS THAT ARE TO REMAIN INTACT WHILE PERFORMING THE SPECIFIED WORK.

**VICINITY MAP**



**SHEET INDEX**

NUMBER	NAME
A0.0	COVER SHEET
A0.1	ADA REQUIREMENTS & GUIDELINES
A0.2	OVERALL SITE PLAN
A0.3	DEMOLITION FLOOR PLAN
A0.4	FIRST FLOOR LIFE SAFETY PLAN
A0.5	SECOND FLOOR LIFE SAFETY PLAN
A1.0	EXISTING FLOOR PLAN
A1.1	DIMENSIONED FIRST FLOOR PLAN
A1.2	ANNOTATED FIRST FLOOR PLAN
A1.3	DIMENSIONED SECOND FLOOR PLAN
A1.4	ANNOTATED SECOND FLOOR PLAN
A1.5	FINISH FLOOR PLAN
A1.6	SECOND FLOOR FINISH PLAN
A1.7	ENLARGED PLANS
A3.0	FIRST FLOOR CEILING PLAN
A3.1	SECOND FLOOR CEILING PLAN
A4.0	ROOF PLAN
A6.0	BUILDING SECTIONS
A6.4	WALL TYPES
A7.0	INTERIOR ELEVATIONS
A7.1	INTERIOR ELEVATIONS
A8.0	DOOR SCHEDULE AND ELEVATIONS
A8.1	WINDOW SCHEDULE AND ELEVATIONS
A9.0	ROOM SCHEDULE
E0.1	GENERAL NOTES AND SYMBOLS
E0.2	ENERGY CALCULATIONS
E1.0	OVERALL BUILDING AND SITE PLAN
E2.1	FIRST FLOOR POWER PLAN
E2.2	FIRST FLOOR LIGHTING PLAN
E3.1	SECOND FLOOR POWER PLAN
E3.2	SECOND FLOOR LIGHTING PLAN
E4.1	ONE-LINE AND CALCULATIONS
E4.2	PANEL SCHEDULES
M0.1	MECHANICAL SYMBOLS, LEGEND & NOTES
M0.2	MECHANICAL SCHEDULES
M0.3	MECHANICAL SCHEDULES
M1.0	NEW MECHANICAL FIRST FLOOR PLAN
M1.1	NEW MECHANICAL SECOND FLOOR PLAN
M2.1	MECHANICAL DETAILS
M2.2	MECHANICAL DETAILS
P0.0	PLUMBING COVER SHEET
P0.1	PLUMBING SPECIFICATIONS
P1.1	PLUMBING FIRST FLOOR WASTE PLAN
P1.2	PLUMBING FIRST FLOOR WATER PLAN
P2.1	PLUMBING SECOND FLOOR WASTE PLAN
P2.2	PLUMBING SECOND FLOOR WATER PLAN
P3.0	PLUMBING SCHEMATICS
P4.0	PLUMBING DETAILS
S1.0	FOUNDATION PLAN
S2.0	FLOOR FRAMING PLAN
S3.0	STRUCTURAL DETAILS
S3.1	STRUCTURAL DETAILS

**FOR CITY PURPOSES**



**Designer:**  
**B.E. Designs, LLC.**  
21320 N. 56th St. Unit 2204  
Phoenix, AZ 85054  
623-692-4808

**Owner:**  
**Helen Bouchard-Bujak**  
4338 W. Thomas Rd. Suite 173  
Phoenix, AZ 85301  
623-341-2825

No.	Description	Date



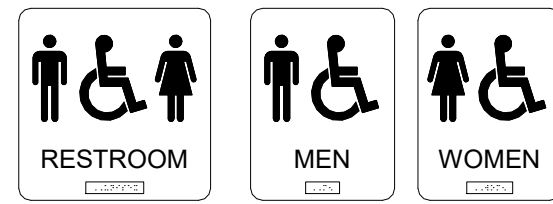
**WEST VALLEY OB-GYN**  
4338 W. Thomas Rd.  
Suite #173  
Phoenix, AZ 85301

Project Number	21066
Date	5/1/23
Drawn By	BJE
Checked By	GGC

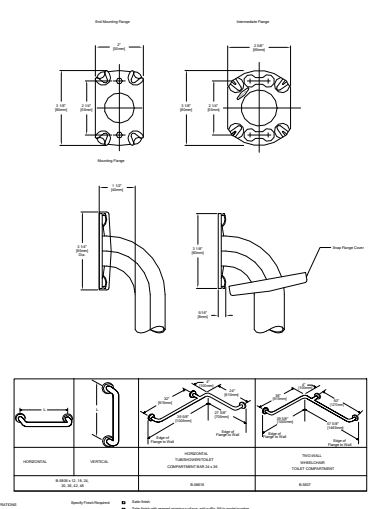
**COVER SHEET**

**A0.0**

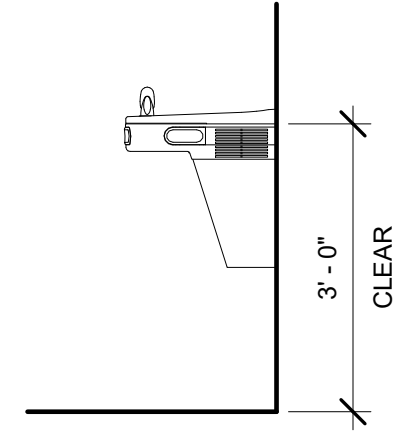
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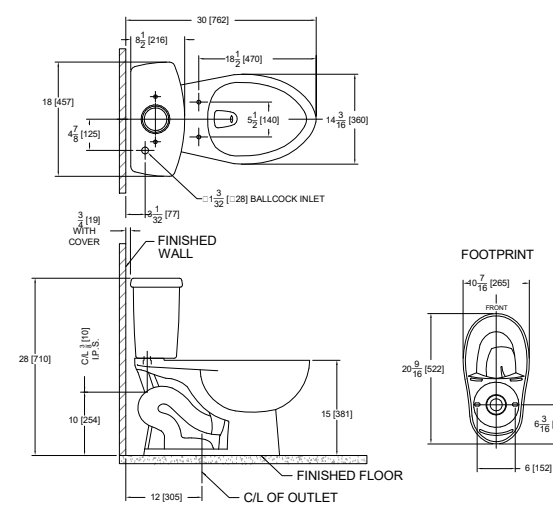
12 ADA - RESTROOM SIGNAGE  
N.T.S.



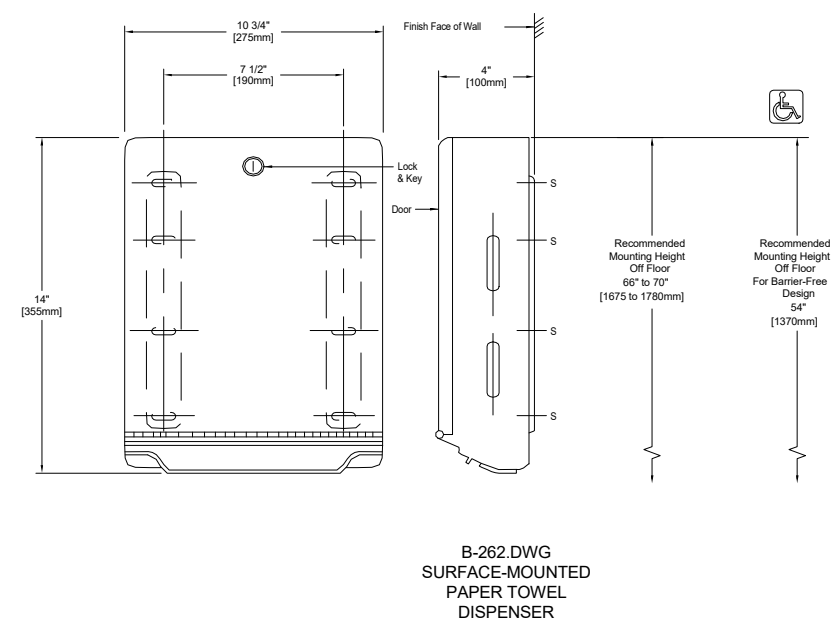
9 ADA - BOBRICK B-5806 GRAB BAR  
N.T.S.



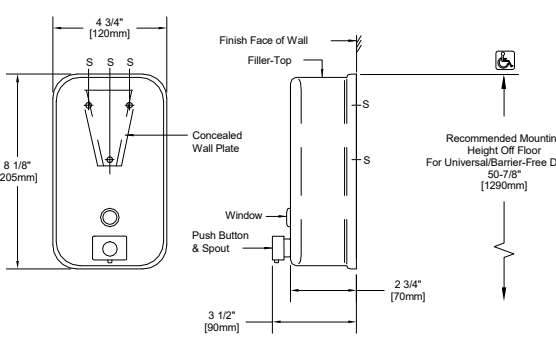
11 ADA - ELKAY LZ08S  
N.T.S.



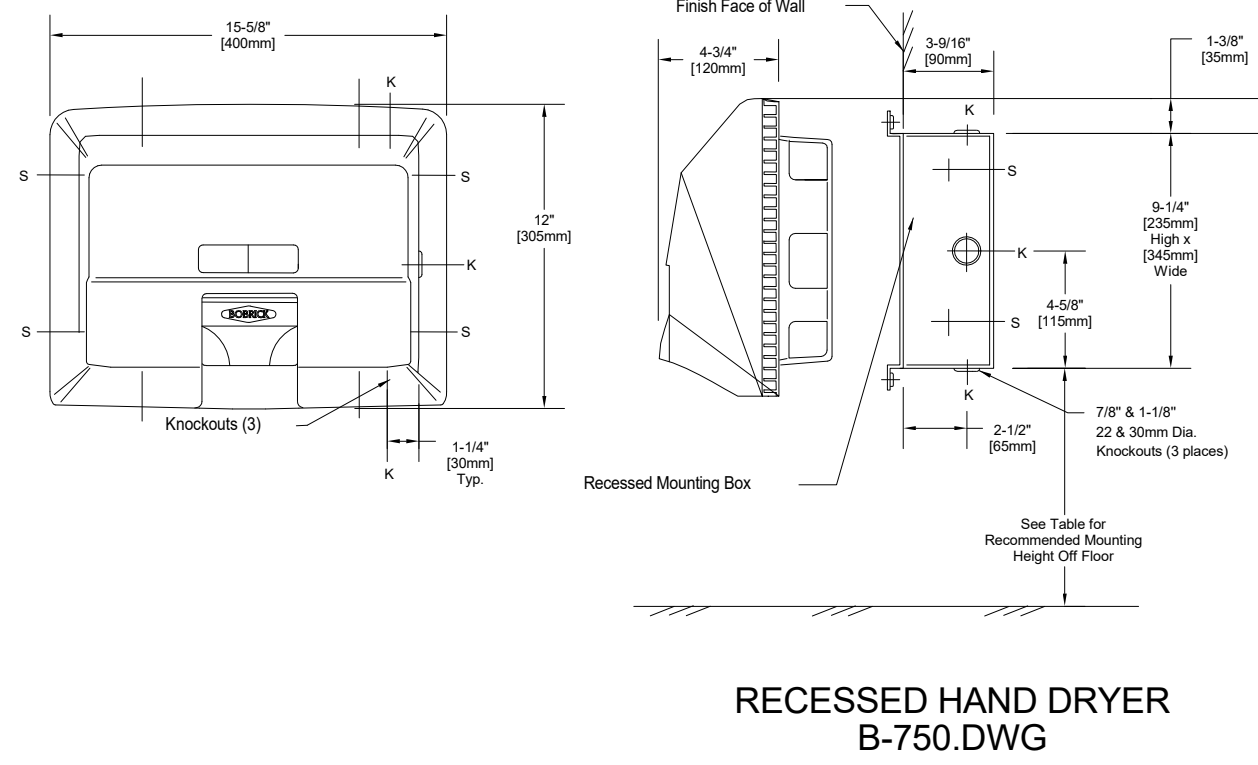
8 ADA - BOBRICK B-262 PAPER TOWEL DISPENSER  
N.T.S.



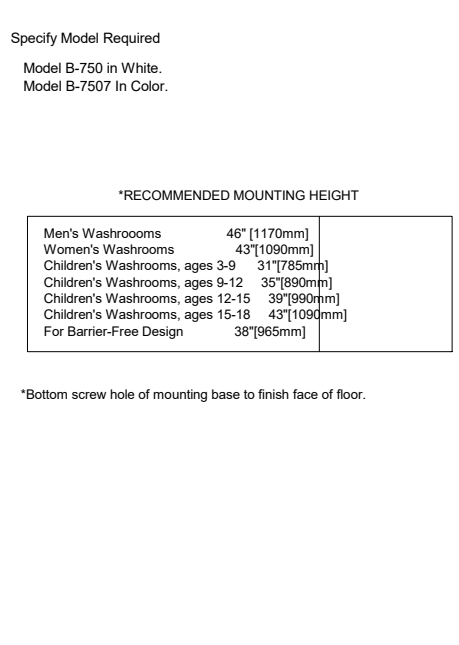
6 ADA - BOBRICK B-2111 SOAP DISPENSER  
N.T.S.



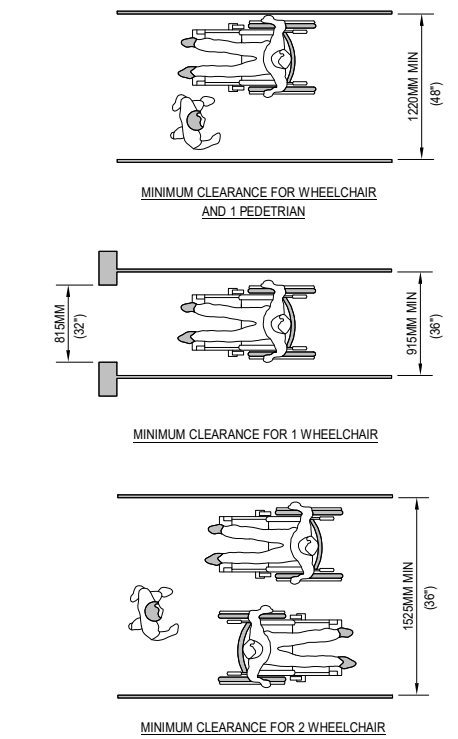
10 ADA - WATER CLOSET  
N.T.S.



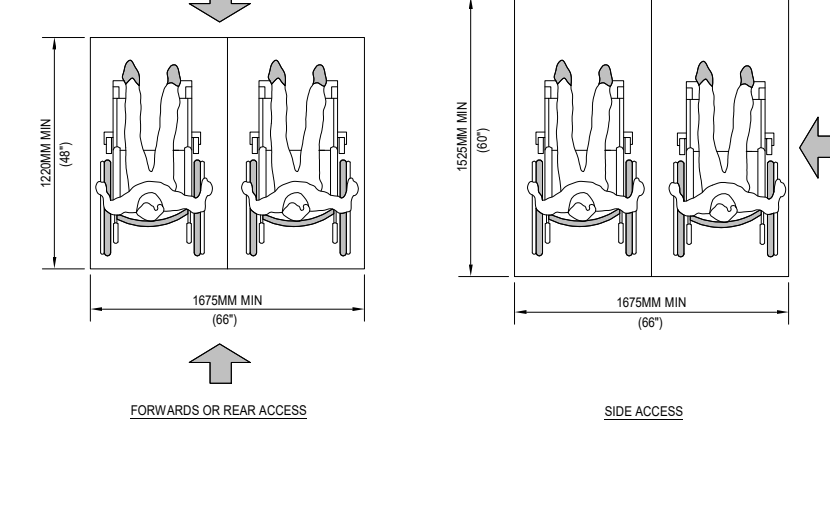
7 ADA - BOBRICK B-750 HAND DRYER  
N.T.S.



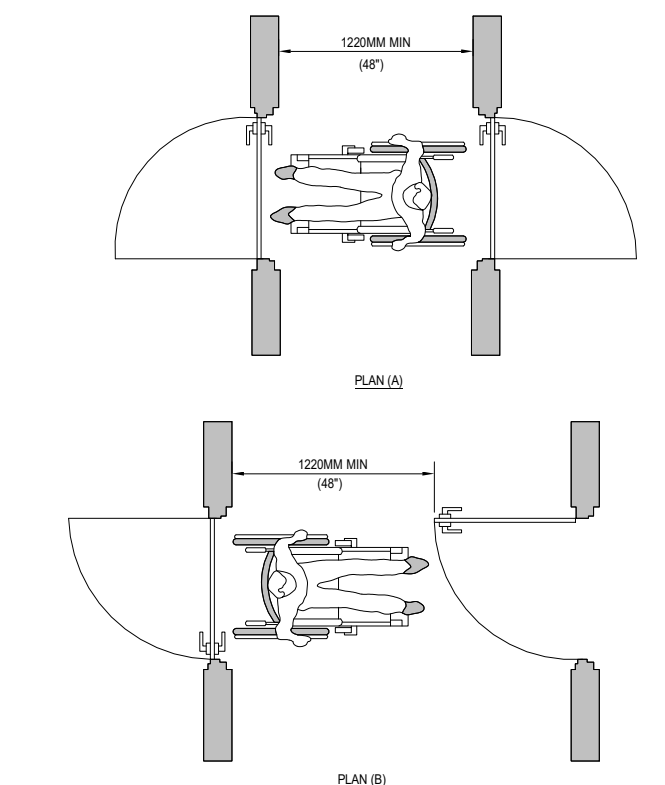
4 ADA-ACCESSIBLE PASSAGE WIDTHS  
N.T.S.



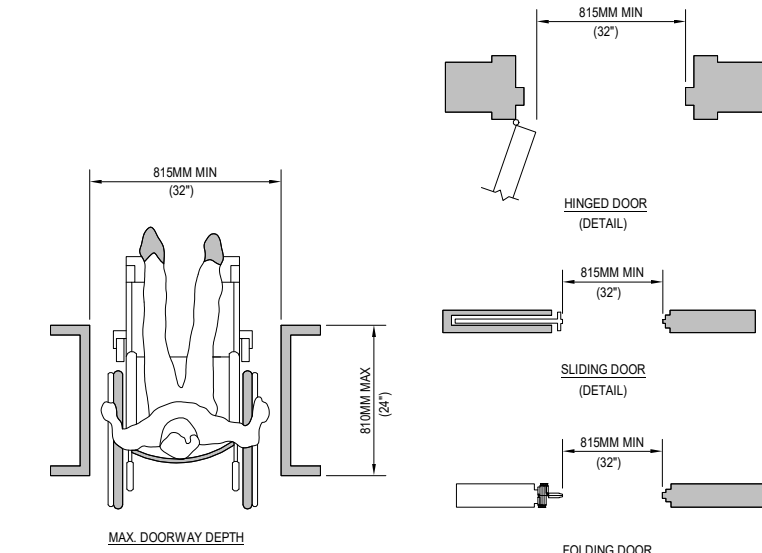
1 ADA-SPACE REQUIREMENTS FOR WHEELCHAIRS  
N.T.S.



2 ADA-ACCESSIBLE DOORWAYS - TWO HINGED DOORS IN SERIES  
N.T.S.



3 ADA-ACCESSIBLE DOORWAYS  
N.T.S.



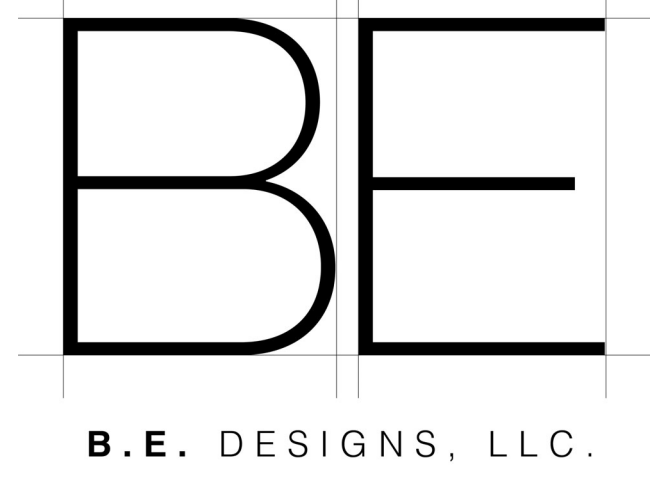
CONSTRUCTION NOTES

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- CONTRACTOR AND SUB-CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS, LOCATIONS, AND PROJECT REQUIREMENTS PRIOR TO SUBMITTING A BID.
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- ALL PAINTING SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ADJACENT FINISHES AND CLEANUP.
- CONTRACTOR IS RESPONSIBLE FOR FINAL CLEANUP OF WORK AREA AND ALL EXPOSED BUILDING SURFACES AT SUBSTANTIAL COMPLETION.
- ALL TRASH AND TOOLS SHALL BE REMOVED FROM PREMISES EACH DAY AND THE AREA LEFT CLEAN WHENEVER UNATTENDED. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP. COORDINATE WITH OWNER IF SECURE STORAGE IS NEEDED ONSITE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO FINISHED SURFACES, EQUIPMENT, FURNITURE, EXISTING MATERIALS OR FINISHES, CAUSED AS A RESULT OF HIS WORK. REPAIR OR REPLACE DAMAGED ITEMS AS DIRECTED BY ARCHITECT.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.

ADA GENERAL NOTES

- IN PUBLIC AREAS THE MINIMUM CLEAR AISLE WIDTH SHALL BE 36" WHERE FIXTURES OR EQUIPMENT ARE PLACED ON ONLY ONE SIDE OF THE AISLE AND 44" WHERE SUCH FIXTURES OR EQUIPMENT ARE PLACED ON BOTH SIDES OF THE AISLE. THE MINIMUM CORRIDOR WIDTH SHALL NOT BE LESS THAN 36" WHEN THE REQUIRED OCCUPANT CAPACITY IS 50 OR LESS, AND 44" INCHES MINIMUM OTHERWISE.
- LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. MOUNT DOOR OPENING HARDWARE BETWEEN 34" MIN AND 48" MAX ABOVE FLOOR FINISH.
- EVERY REQUIRED ENTRANCE OR PASSAGE DOOR SHALL BE NOT LESS THAN 3' IN WIDTH AND NOT LESS THAN 6'-8" IN HEIGHT. DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES AND SHALL BE SO MOUNTED THAT THE CLEAR WIDTH OF THE DOORWAY IS NOT LESS THAN 32".
- CENTER ELECTRICAL RECEPTACLE OUTLETS NOT LESS THAN 15" A.F.F. OR WORKING PLATFORM.
- SANITARY FACILITIES LOCATED ON AN ACCESSIBLE FLOOR OF A BUILDING SHALL BE ACCESSIBLE TO THE PHYSICALLY DISABLED.
- HEIGHT OF WATER CLOSET (TOP OF SEAT) SHALL BE BETWEEN 17" MIN. AND 19" MAX. A.F.F.
- PROVIDE GRAB BARS ON ONE SIDE AND BACK OF WATER CLOSET.
- PROVIDE A CLEAR FLOOR SPACE 30" X 48" IN FRONT OF LAVATORY TO PERMIT A FORWARD APPROACH.

FOR CITY PURPOSES



Designer:  
**B.E. Designs, LLC.**  
21320 N. 56th St. Unit 2204  
Phoenix, AZ 85054  
623-692-4808

Owner:  
**Helen Bouchard-Bujak**  
4338 W. Thomas Rd. Suite 173  
Phoenix, AZ 85301  
623-341-2825

No.	Description	Date



**WEST VALLEY OB-GYN**  
4338 W. Thomas Rd.  
Suite #173  
Phoenix, AZ 85301

Project Number	21066
Date	5/1/23
Drawn By	BJE
Checked By	GGC

ADA REQUIREMENTS & GUIDELINES

A0.1

Scale As indicated


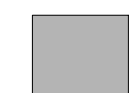


**SITE DATA**

OWNER(S): HELEN BOUCHARD-BUJAK  
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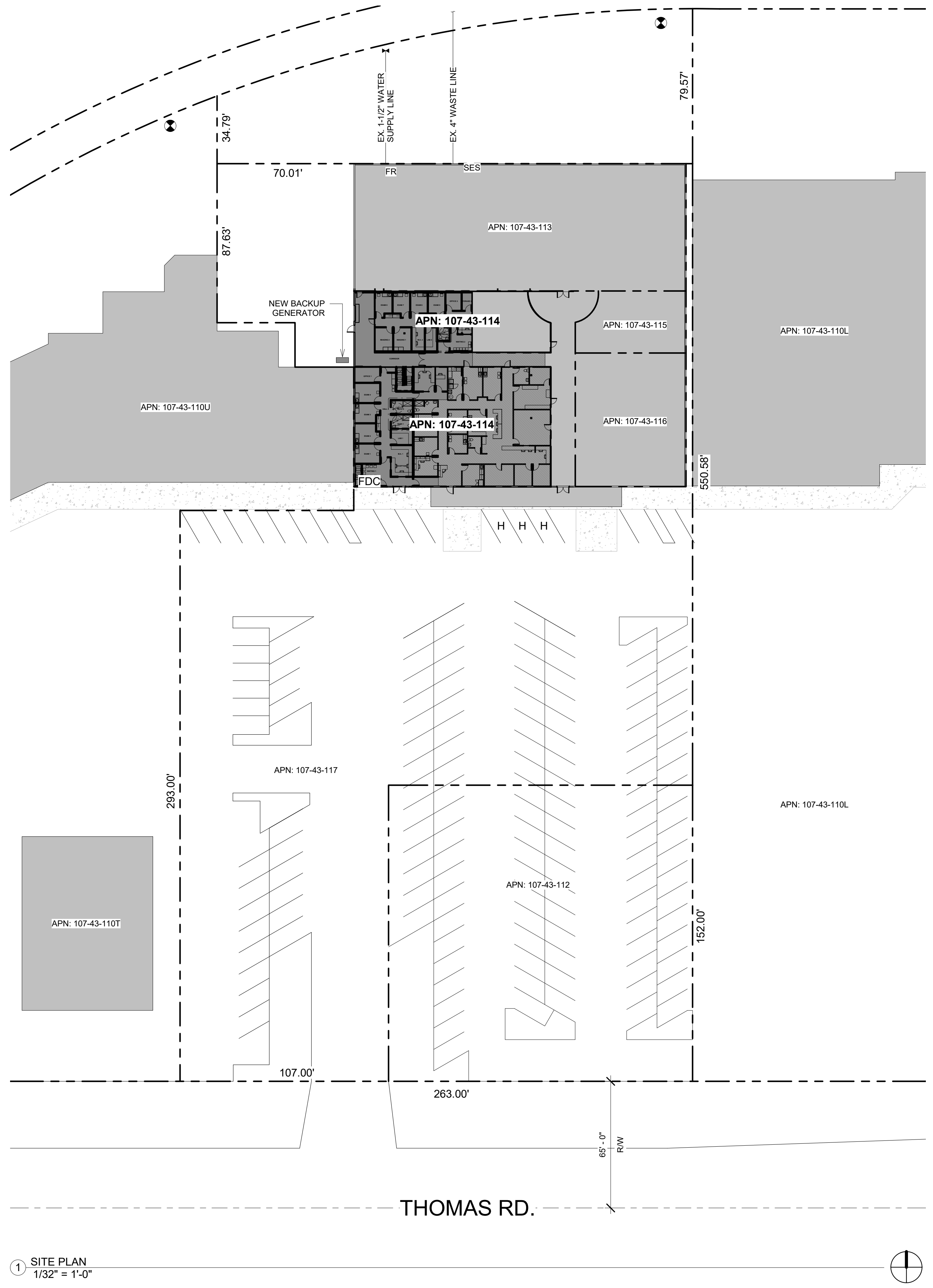
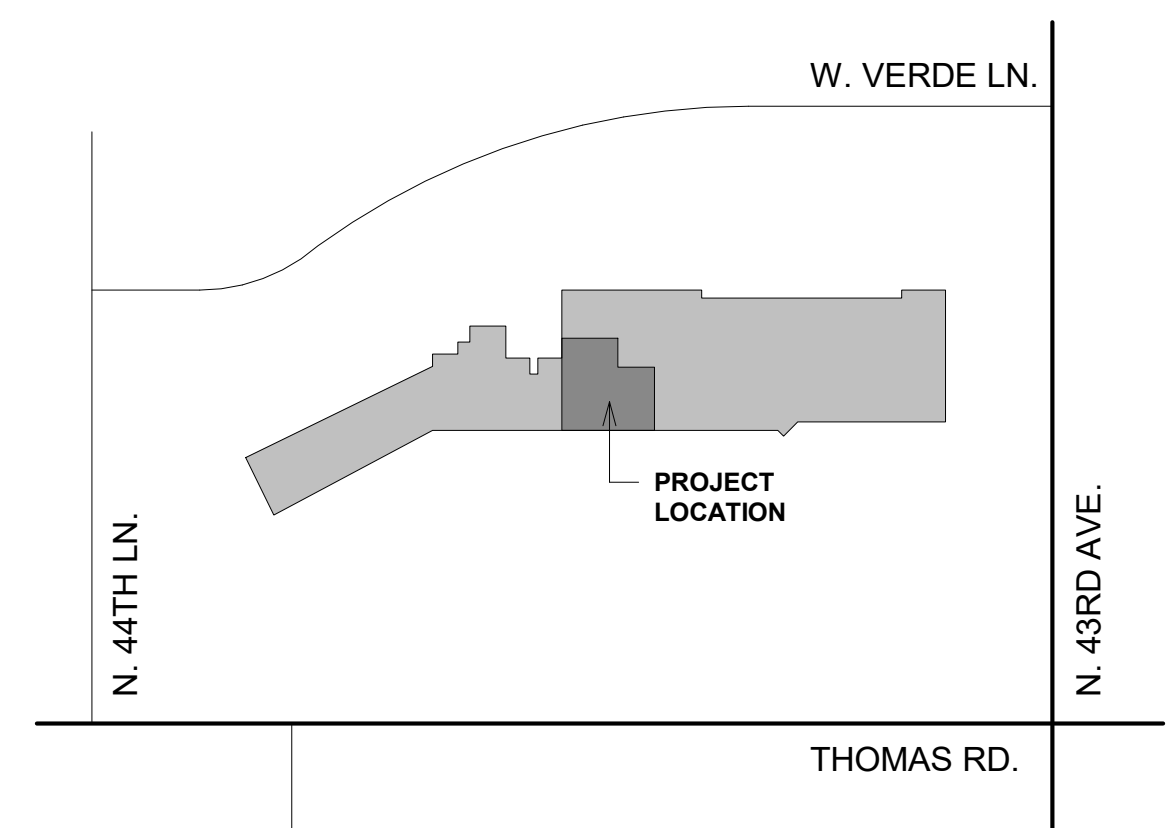
**BUILDING DATA**

USE: BUSINESS & HEALTHCARE  
 REMODEL: YES  
 OCCUPANCY: A-3, B, I-2  
 SPRINKLERED: YES  
 SEPARATION REQUIRED: NO  
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**SITE PLAN LEGEND**

-  EXISTING SPACE IN SCOPE
-  EXISTING SPACE NOT IN SCOPE
-  EXISTING CONCRETE SIDEWALK
-  EXISTING FIRE HYDRANT LOCATION
- SES EXISTING SERVICE ENTRY SECTION
- FR EXISTING FIRE RISER
- FDC EXISTING FIRE DEPARTMENT CONNECTION
- H EXISTING HANDICAP PARKING STALL

**VICINITY MAP**



**CONSTRUCTION NOTES**

- I. COORDINATE ALL WORK WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- II. CONTRACTOR AND SUB-CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS, LOCATIONS, AND PROJECT REQUIREMENTS PRIOR TO SUBMITTING A BID.
- III. CONTRACTOR AND SUB-CONTRACTORS SHALL FIELD VERIFY DIMENSIONS, AND FAMILIARIZE THEMSELVES WITH PROJECT REQUIREMENTS PRIOR TO COMMENCING WITH THE WORK. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO ARCHITECT.
- IV. WORK SHALL INCLUDE ALL REQUIRED PERMITS, LABOR, MATERIALS, AND EQUIPMENT TO COMPLETE ALL WORK INDICATED ON DRAWINGS AND AS NECESSARY FOR A COMPLETE PROJECT.
- V. ALL PAINTING SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ADJACENT FINISHES AND CLEANUP.
- VI. CONTRACTOR IS RESPONSIBLE FOR FINAL CLEANUP OF WORK AREA AND ALL EXPOSED BUILDING SURFACES AT SUBSTANTIAL COMPLETION.
- VII. ALL TRASH AND TOOLS SHALL BE REMOVED FROM PREMISES EACH DAY AND THE AREA LEFT CLEAN WHENEVER UNATTENDED. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP. COORDINATE WITH OWNER IF SECURE STORAGE IS NEEDED ONSITE.
- VIII. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO FINISHED SURFACES, EQUIPMENT, FURNITURE, EXISTING MATERIALS OR FINISHES, CAUSED AS A RESULT OF HIS WORK. REPAIR OR REPLACE DAMAGED ITEMS AS DIRECTED BY ARCHITECT.
- IX. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.

**SITE PLAN NOTES**

- I. DEVELOPMENT OF THIS SITE WILL CONFORM WITH ALL APPLICABLE CODES AND ORDINANCES.
- II. ALL NEW OR RELOCATED UTILITIES ARE TO BE PLACED UNDERGROUND.
- III. SURVEY COMPLETED AND DOCUMENTED BY: SUPERIOR, INC.
- IV. PREPARE AREA OF THE SITE SUPPORTING THE STRUCTURE BY REMOVING ALL TOPSOIL, EXISTING FILL, ORGANIC MATERIAL, WET, SOFT, LOOSE OR OTHERWISE UNSUITABLE MATERIALS.
- V. FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED MATERIAL ON ALL SIDES. IF UNSUITABLE MATERIAL IS ENCOUNTERED OR THE BEARING CAPACITY DOES NOT MEET THE REQUIRED SPECIFICATIONS, A GEOTECHNICAL ENGINEER SHALL BE EMPLOYED FOR RECOMMENDATIONS FOR REMEDIATION.

**FOR CITY PURPOSES**



**Designer:**  
**B.E. Designs, LLC.**  
 21320 N. 56th St. Unit 2204  
 Phoenix, AZ 85054  
 623-692-4808

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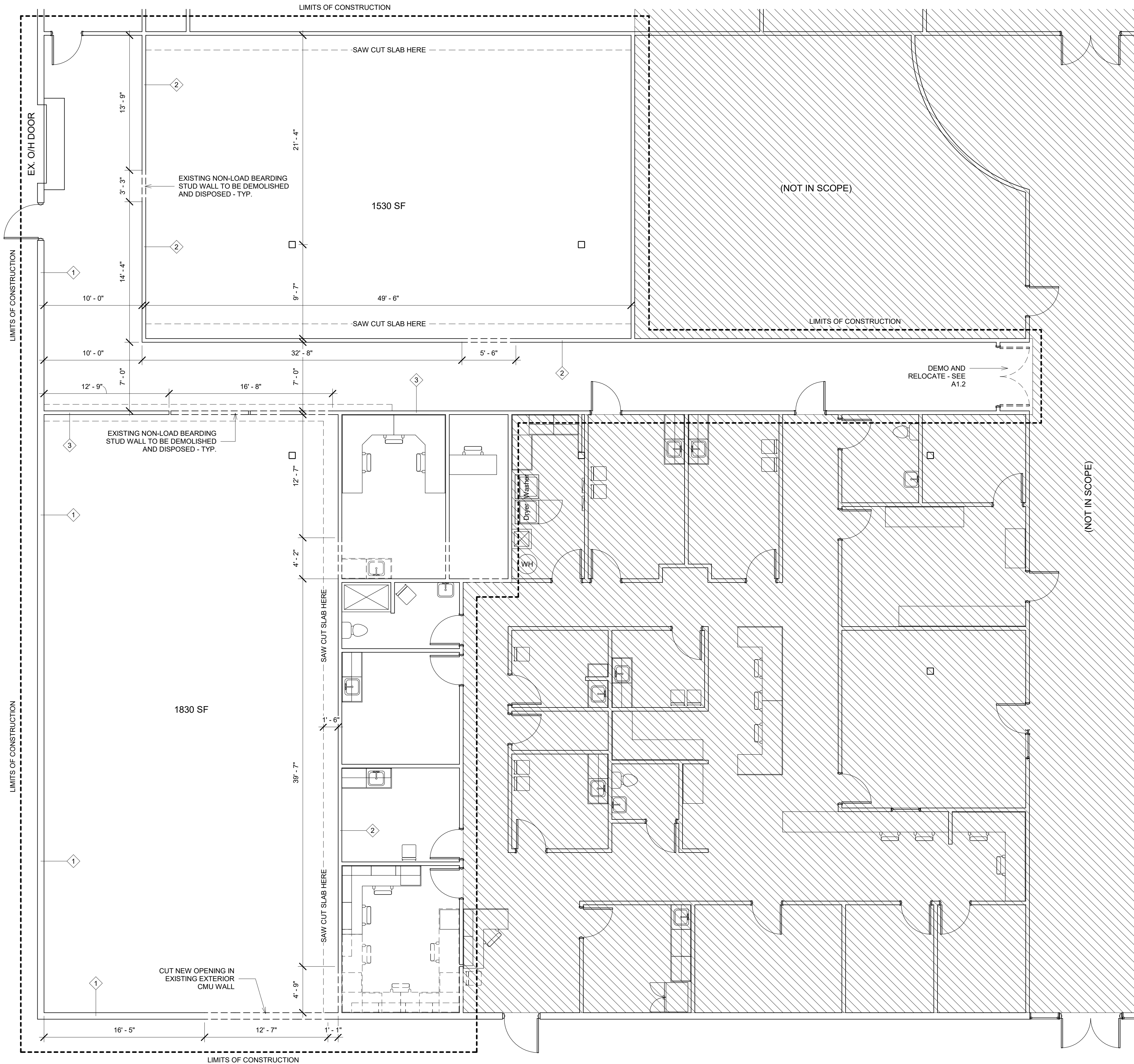
Project Number	21066
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Drawn By	BJE
Checked By	GGC

**OVERALL SITE PLAN**

**A0.2**

Scale As indicated

1 SITE PLAN  
 1/32" = 1'-0"



1 DEMOLITION FLOOR PLAN  
3/16" = 1'-0"

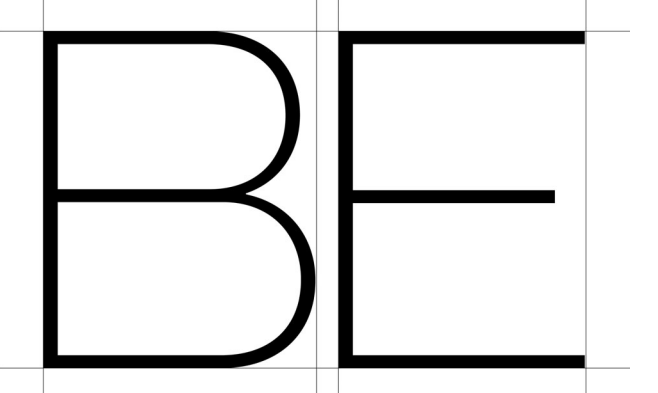
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**DEMOLITION LEGEND**

--- EXISTING WALL TO BE DEMOLISHED AND DISPOSED

FOR CITY PURPOSES



B. E. DESIGNS, LLC.

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**B.E. Designs, LLC.**  
21320 N. 56th St. Unit 2204  
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**DEMOLITION FLOOR PLAN**

**A0.3**

Scale As indicated

**BUILDING DATA**

USE:	BUSINESS & HEALTHCARE
REMODEL:	YES
OCCUPANCY:	A-3, B, I-2
SPRINKLERED:	YES
SEPARATION REQUIRED:	NO
CONSTRUCTION TYPE:	TYPE I, II
FIRST FLOOR AREA (SQFT):	11,033
SECOND FLOOR AREA (SQFT):	4,045
<b>TOTAL UNIT AREA (SQFT):</b>	<b>15,078</b>
TOTAL NUMBER OF FLOORS:	2
TOTAL NEW OCCUPANT LOAD:	60 PERSONS
EXISTING PLUMBING FIXTURE COUNT:	19
NEW PLUMBING FIXTURE COUNT:	27
TOTAL PLUMBING FIXTURE COUNT:	46

**OCCUPANT LOAD CALCULATIONS**

**FIRST FLOOR**

RECEPTION 1	(177 S.F. / 50) = 4
WAITING 1	(70 S.F. / 7) = 10
MEDICAL ASSISTANT 1	(68 S.F. / 50) = 2
LAB 1	(88 S.F. / 100) = 1
BATH 1	NO OCCUPANCY = 0
BATH 2	NO OCCUPANCY = 0
STORAGE 1	NO OCCUPANCY = 0
EXAM 1	(128 S.F. / 100) = 2
EXAM 2	(119 S.F. / 100) = 2
EXAM 3	(119 S.F. / 100) = 2
EXAM 4	(128 S.F. / 100) = 2
EXAM 5	(101 S.F. / 100) = 2
EXAM 6	(101 S.F. / 100) = 2
EXAM 7	(101 S.F. / 100) = 2
EXAM 8	(101 S.F. / 100) = 2
OFFICE 1	(101 S.F. / 50) = 3
CORRIDOR	NO OCCUPANCY = 0
WAITING 2	(107 S.F. / 7) = 15
RECEPTION 2	(85 S.F. / 50) = 2
STORAGE 2	NO OCCUPANCY = 0
OFFICE 2	(72 S.F. / 50) = 2
LAB 2	(72 S.F. / 100) = 1
MEDICAL ASSISTANT 2	(75 S.F. / 50) = 2
IMAGING 1	(107 S.F. / 100) = 2
IMAGING 2	(107 S.F. / 100) = 2

**TOTAL FIRST FLOOR 60 PERSONS**

**SECOND FLOOR**

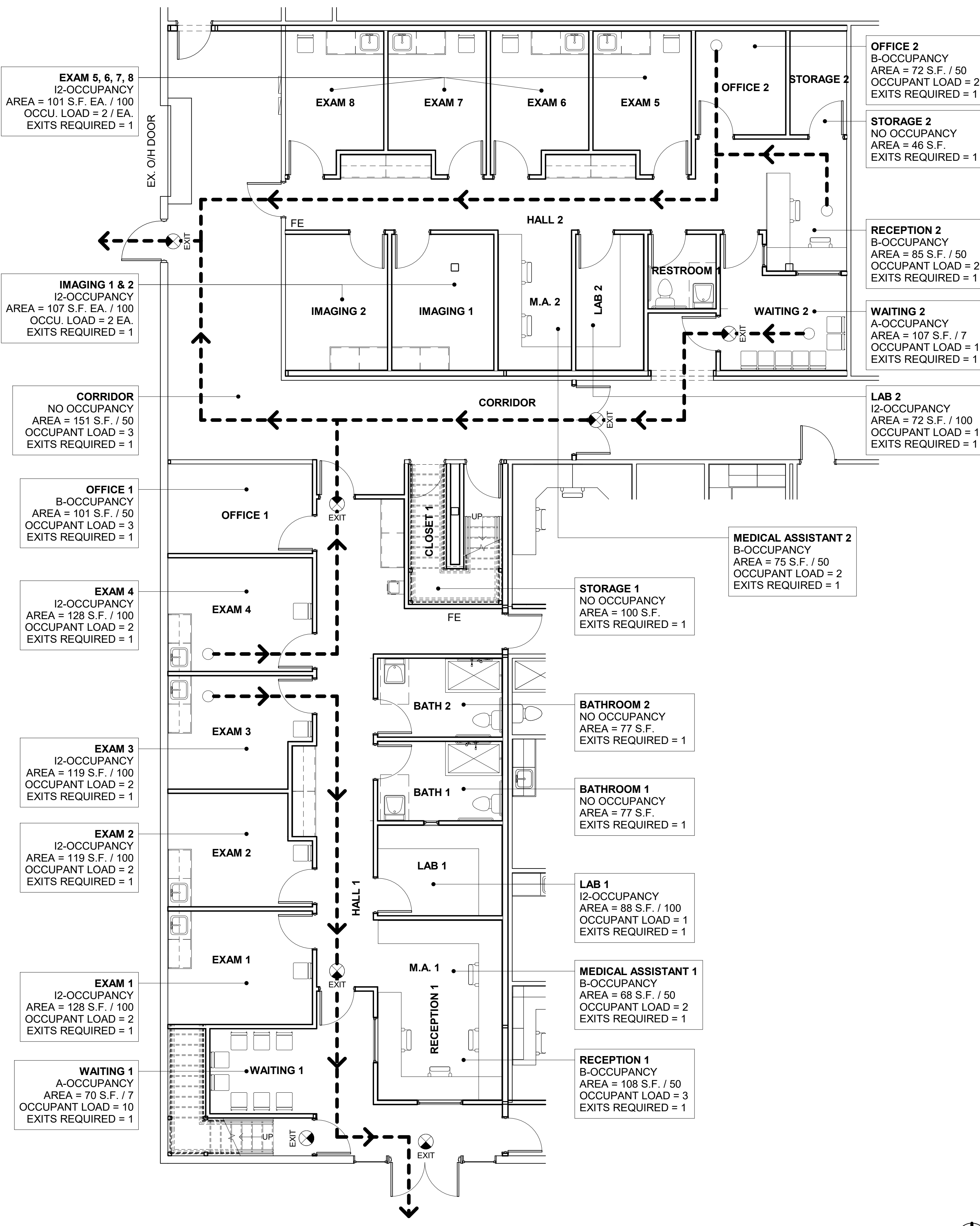
MULTI-PURPOSE	(728 S.F. / 15) = 49
KIDS	(185 S.F. / 35) = 6
RESTROOM 3	NO OCCUPANCY
RESTROOM 4	NO OCCUPANCY
STORAGE 3	NO OCCUPANCY
BREAK ROOM	(107 S.F. / 15) = 8
BULLPEN	(2,052 S.F. / 150) = 14
STAIRWELL	NO OCCUPANCY
RESTROOM 2	NO OCCUPANCY
CLOSET 2	NO OCCUPANCY
OFFICE 4	(225 S.F. / 50) = 5
OFFICE 3	(127 S.F. / 50) = 3
BATH 3	NO OCCUPANCY

**TOTAL SECOND FLOOR 85 PERSONS**

**TOTAL OCCUPANT LOAD 145 PERSONS**

**EXITING CALCULATIONS**

TOTAL OCCUPANT LOAD:	145
TOTAL NUMBER OF EXITS REQUIRED:	3
TOTAL NUMBER OF EXITS PROVIDED:	3
TOTAL EXIT WIDTH REQUIRED:	108"
TOTAL EXIT WIDTH PROVIDED:	108"
MAX. TRAVEL DISTANCE W/ SPRINKLERS:	150'-0"



1 LIFE SAFETY PLAN  
3/16" = 1'-0"

**CONSTRUCTION NOTES**

- I. COORDINATE ALL WORK WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- II. CONTRACTOR AND SUB-CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS, LOCATIONS, AND PROJECT REQUIREMENTS PRIOR TO SUBMITTING A BID.
- III. CONTRACTOR AND SUB-CONTRACTORS SHALL FIELD VERIFY DIMENSIONS, AND FAMILIARIZE THEMSELVES WITH PROJECT REQUIREMENTS PRIOR TO COMMENCING WITH THE WORK. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO ARCHITECT.
- IV. WORK SHALL INCLUDE ALL REQUIRED PERMITS, LABOR, MATERIALS, AND EQUIPMENT TO COMPLETE ALL WORK INDICATED ON DRAWINGS AND AS NECESSARY FOR A COMPLETE PROJECT.
- V. ALL PAINTING SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ADJACENT FINISHES AND CLEANUP.
- VI. CONTRACTOR IS RESPONSIBLE FOR FINAL CLEANUP OF WORK AREA AND ALL EXPOSED BUILDING SURFACES AT SUBSTANTIAL COMPLETION.
- VII. ALL TRASH AND TOOLS SHALL BE REMOVED FROM PREMISES EACH DAY AND THE AREA LEFT CLEAN WHENEVER UNATTENDED. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP. COORDINATE WITH OWNER IF SECURE STORAGE IS NEEDED ONSITE.
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- IX. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.

**NOTES**

1. EXIT SIGN LOCATION SHALL BE FIELD VERIFIED BY THE DESIGNER AND ENGINEER BEFORE PLACEMENT.

**LIFE SAFETY LEGEND**

- ⊗ EXIT SIGN - SEE ELECTRICAL
- - - MEANS OF EGRESS TO EXTERIOR DOOR
- FE FIRE EXTINGUISHER CABINET - SEE DETAIL 2/A0.9

**FOR CITY PURPOSES**

FOR CITY PURPOSES



**Designer:**  
**B.E. Designs, LLC.**  
21320 N. 56th St. Unit 2204  
Phoenix, AZ 85054  
623-692-4808

**Owner:**  
**Helen Bouchard-Bujak**  
4338 W. Thomas Rd. Suite 173  
Phoenix, AZ 85301  
623-341-2825



**WEST VALLEY OB-GYN**  
4338 W. Thomas Rd.  
Suite #173  
Phoenix, AZ 85301

Project Number	21066
Date	5/1/23
Drawn By	BJE
Checked By	GGC

**FIRST FLOOR LIFE SAFETY PLAN**

**A0.4**

Scale As indicated

**BUILDING DATA**

USE:	BUSINESS & HEALTHCARE
REMODEL:	YES
OCCUPANCY:	A-3, B, I-2
SPRINKLERED:	YES
SEPARATION REQUIRED:	NO
CONSTRUCTION TYPE:	TYPE I, II
FIRST FLOOR AREA (SQFT):	11,033
SECOND FLOOR AREA (SQFT):	4,045
<b>TOTAL UNIT AREA (SQFT):</b>	<b>15,078</b>
TOTAL NUMBER OF FLOORS:	2
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WAITING 2	(107 S.F. / 7) = 15
RECEPTION 2	(85 S.F. / 50) = 2
STORAGE 2	NO OCCUPANCY = 0
OFFICE 2	(72 S.F. / 50) = 2
LAB 2	(72 S.F. / 100) = 1
MEDICAL ASSISTANT 2	(75 S.F. / 50) = 2
IMAGING 1	(107 S.F. / 100) = 2
IMAGING 2	(107 S.F. / 100) = 2

**TOTAL FIRST FLOOR 60 PERSONS**

**SECOND FLOOR**

MULTI-PURPOSE	(728 S.F. / 15) = 49
KIDS	(185 S.F. / 35) = 6
RESTROOM 3	NO OCCUPANCY
RESTROOM 4	NO OCCUPANCY
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BREAK ROOM	(107 S.F. / 15) = 8
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OFFICE 4	(225 S.F. / 50) = 5
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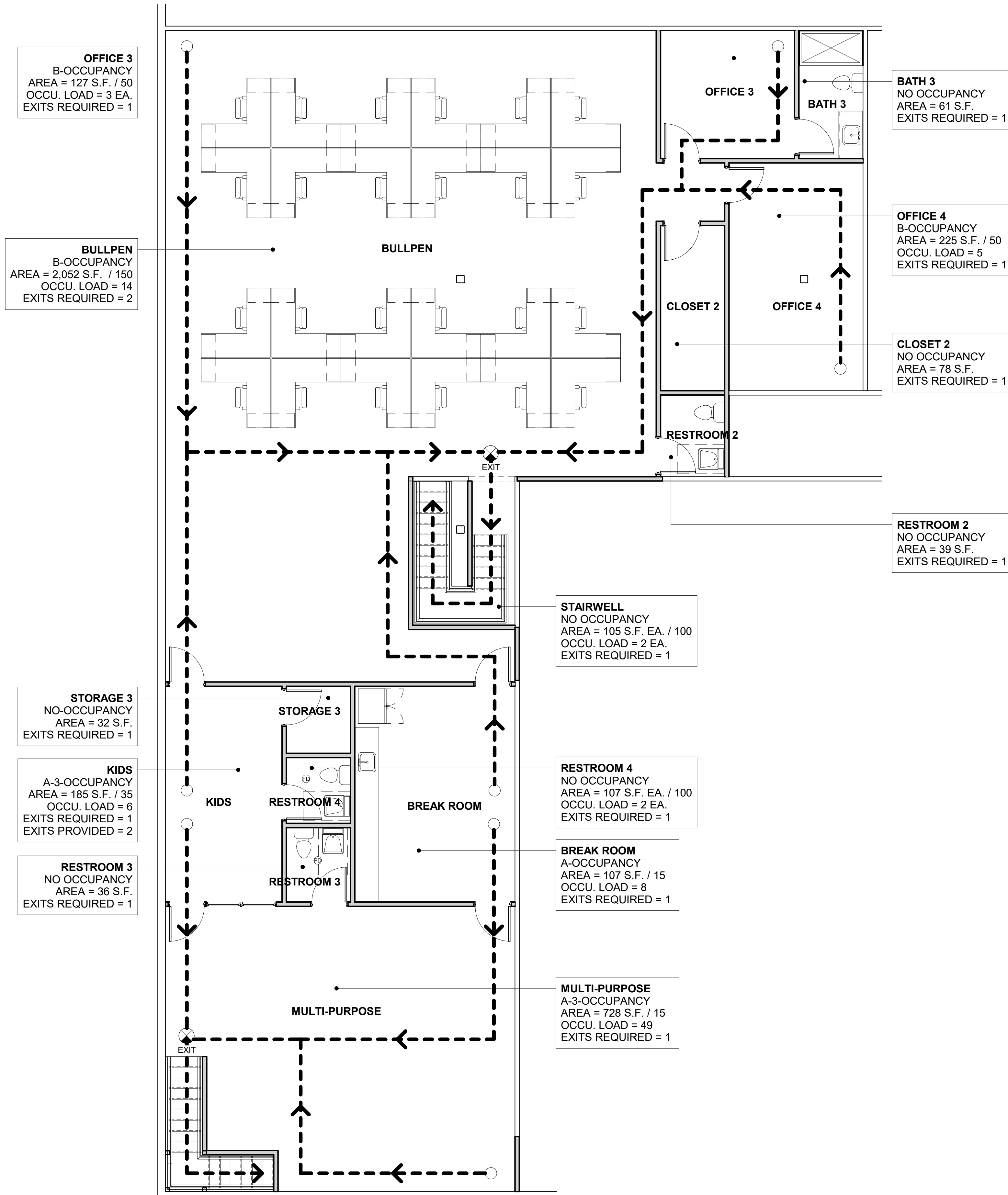
**TOTAL SECOND FLOOR 85 PERSONS**

**TOTAL OCCUPANT LOAD 145 PERSONS**

**EXITING CALCULATIONS**

TOTAL OCCUPANT LOAD:	145
TOTAL NUMBER OF EXITS REQUIRED:	3
TOTAL NUMBER OF EXITS PROVIDED:	3
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TOTAL EXIT WIDTH PROVIDED:	108"
MAX. TRAVEL DISTANCE W/ SPRINKLERS:	150'-0"

1 SECOND FLOOR LIFE SAFETY PLAN  
3/16" = 1'-0"



**CONSTRUCTION NOTES**

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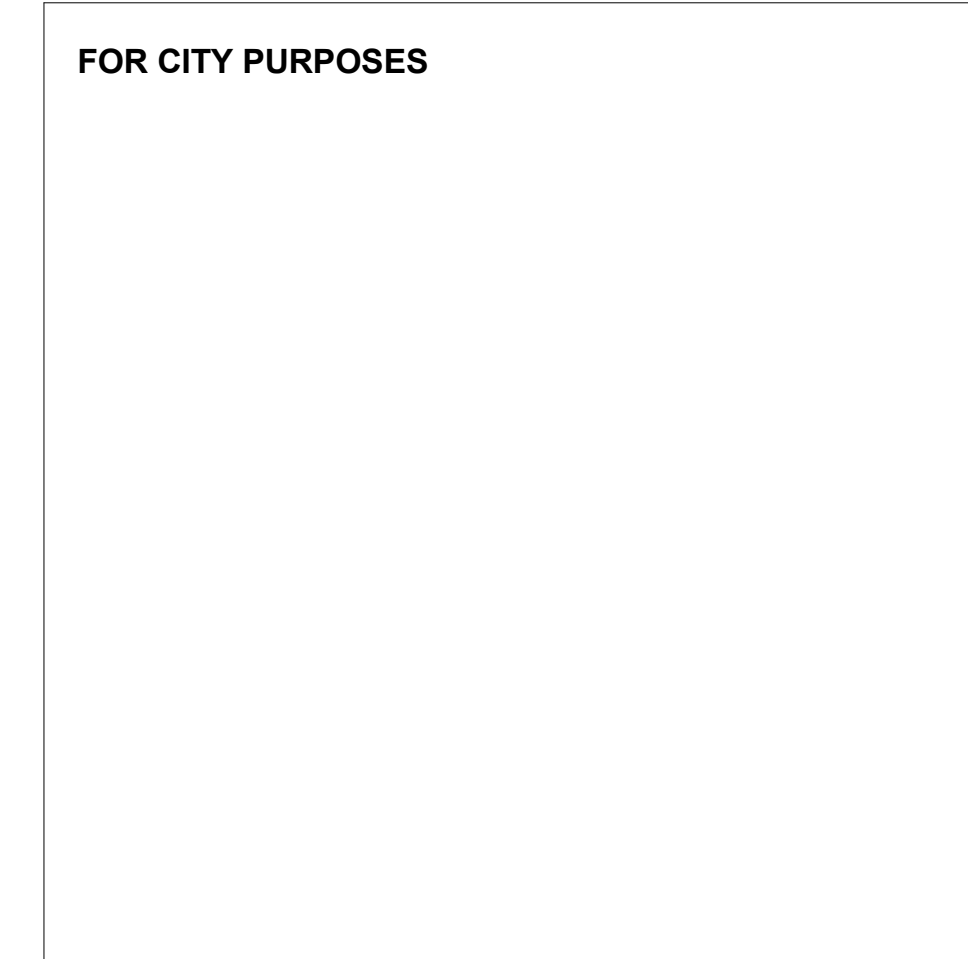
**NOTES**

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**LIFE SAFETY LEGEND**

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**FOR CITY PURPOSES**



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21320 N. 56th St. Unit 2204  
Phoenix, AZ 85054  
623-692-4808

**Owner:**  
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Phoenix, AZ 85301  
623-341-2825

No.	Description	Date



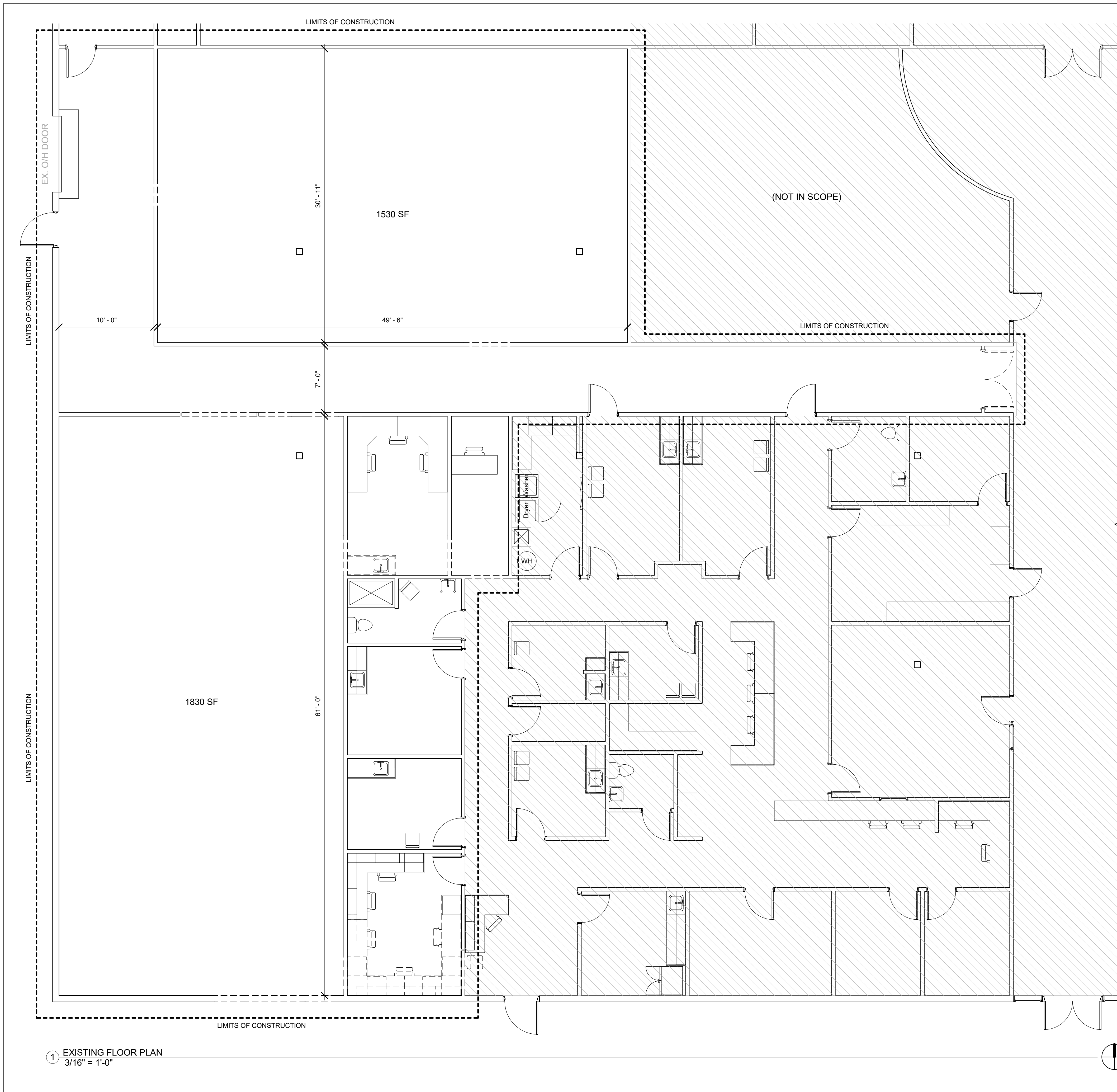
**WEST VALLEY OB-GYN**  
4338 W. Thomas Rd.  
Suite #173  
Phoenix, AZ 85301

Project Number	21066
Date	5/1/23
Drawn By	BJE
Checked By	BJE

**SECOND FLOOR LIFE SAFETY PLAN**

**A0.5**

Scale As indicated

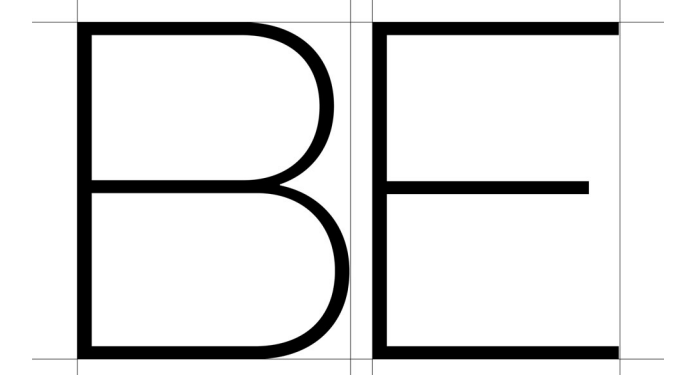


1 EXISTING FLOOR PLAN  
3/16" = 1'-0"

**CONSTRUCTION NOTES**

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FOR CITY PURPOSES



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Checked By	BJE

**EXISTING FLOOR PLAN**

**A1.0**

Scale As indicated

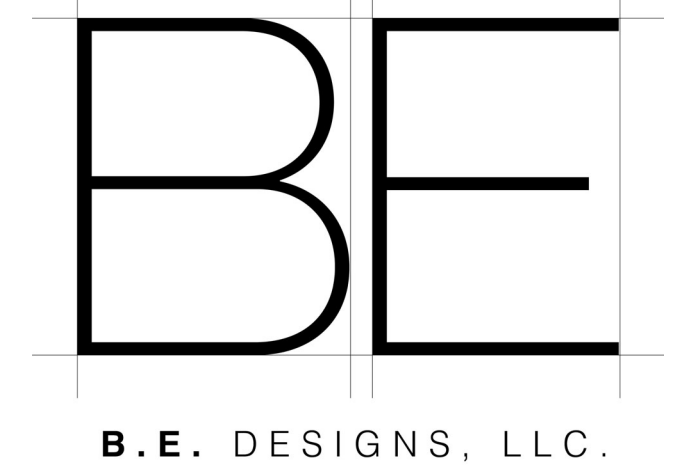


1 DIMENSIONED FIRST FLOOR PLAN  
3/16" = 1'-0"

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**DIMENSIONED FIRST FLOOR PLAN**

**A1.1**

Scale As indicated

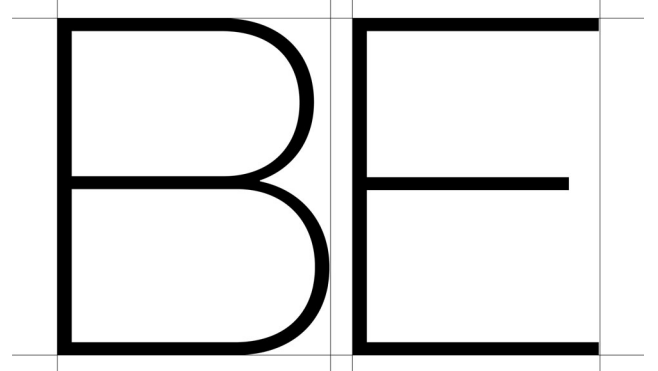


1 ANNOTATED FIRST FLOOR PLAN  
3/16" = 1'-0"

**CONSTRUCTION NOTES**

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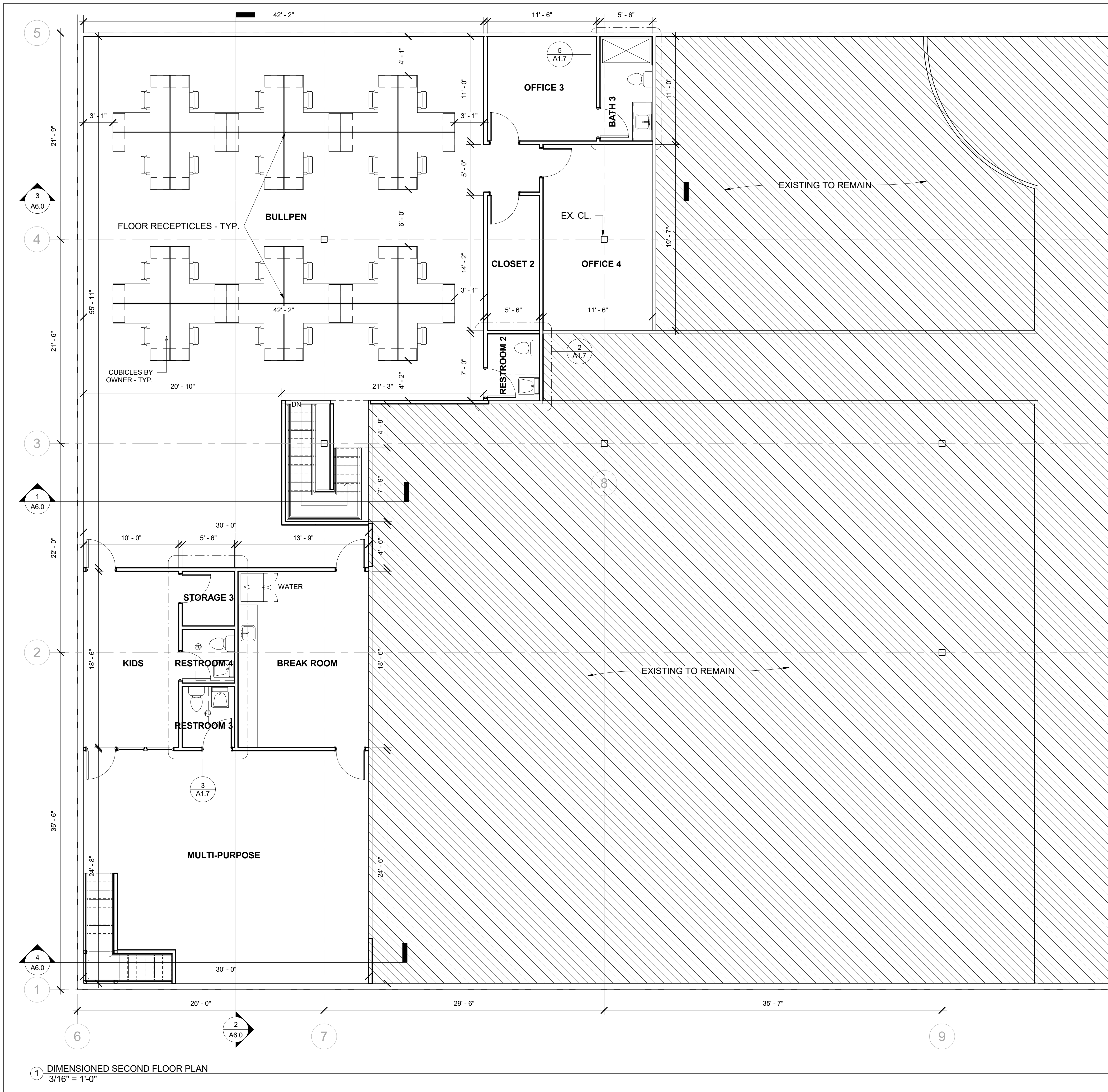
**WEST VALLEY OB-GYN**  
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Phoenix, AZ 85301

Project Number	21066
Date	5/1/23
Drawn By	BJE
Checked By	BJE

**ANNOTATED FIRST FLOOR PLAN**

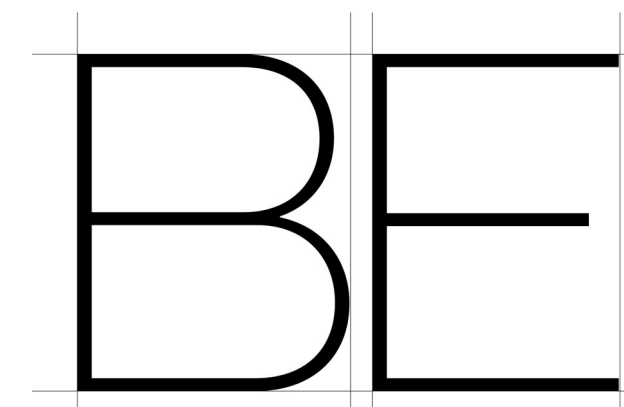
**A1.2**

Scale As indicated



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No.	Description	Date



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Project Number	21066
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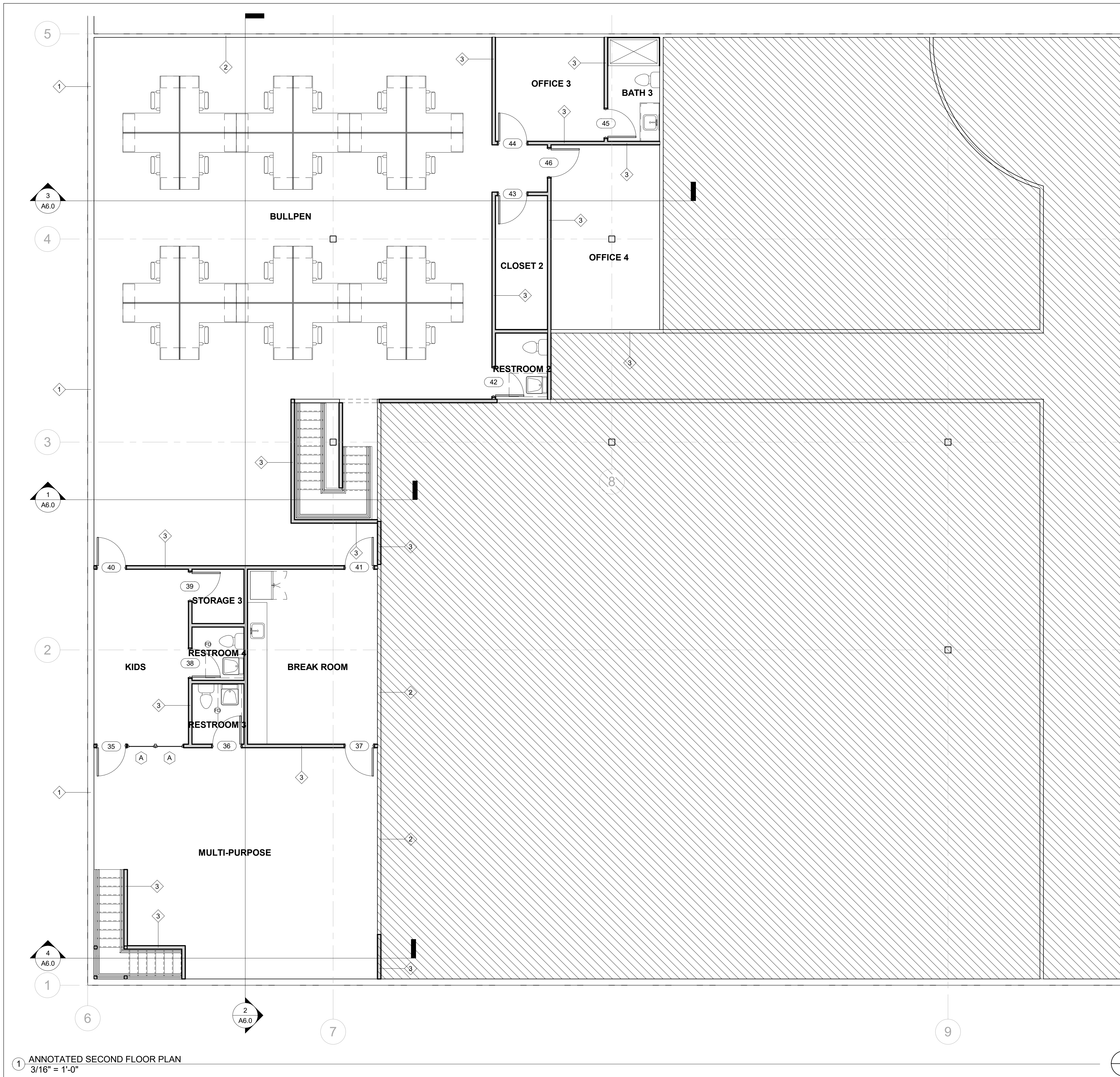
**DIMENSIONED SECOND FLOOR PLAN**

**A1.3**

Scale As indicated

FOR CITY PURPOSES

1 DIMENSIONED SECOND FLOOR PLAN  
 3/16" = 1'-0"



**CONSTRUCTION NOTES**

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**NOTE:**

SECOND FLOOR IS FOR PRIVATE ACCES ONLY. NO PUBLIC ACCESS IS ADMITTED.

FOR CITY PURPOSES



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 4338 W. Thomas Rd. Suite 173  
 Phoenix, AZ 85301  
 623-341-2825

No.	Description	Date



**WEST VALLEY OB-GYN**  
 4338 W. Thomas Rd.  
 Suite #173  
 Phoenix, AZ 85301

Project Number	21066
Date	5/1/23
Drawn By	BJE
Checked By	BJE

**ANNOTATED SECOND FLOOR PLAN**

**A1.4**

Scale As indicated

1 ANNOTATED SECOND FLOOR PLAN  
 3/16" = 1'-0"



1 FIRST FLOOR FINISH PLAN  
3/16" = 1'-0"




**CONSTRUCTION NOTES**

- I. COORDINATE ALL WORK WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- II. CONTRACTOR AND SUB-CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS, LOCATIONS, AND PROJECT REQUIREMENTS PRIOR TO SUBMITTING A BID.
- III. CONTRACTOR AND SUB-CONTRACTORS SHALL FIELD VERIFY DIMENSIONS, AND FAMILIARIZE THEMSELVES WITH PROJECT REQUIREMENTS PRIOR TO COMMENCING WITH THE WORK. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO ARCHITECT.
- IV. WORK SHALL INCLUDE ALL REQUIRED PERMITS, LABOR, MATERIALS, AND EQUIPMENT TO COMPLETE ALL WORK INDICATED ON DRAWINGS AND AS NECESSARY FOR A COMPLETE PROJECT.
- V. ALL PAINTING SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ADJACENT FINISHES AND CLEANUP.
- VI. CONTRACTOR IS RESPONSIBLE FOR FINAL CLEANUP OF WORK AREA AND ALL EXPOSED BUILDING SURFACES AT SUBSTANTIAL COMPLETION.
- VII. ALL TRASH AND TOOLS SHALL BE REMOVED FROM PREMISES EACH DAY AND THE AREA LEFT CLEAN WHENEVER UNATTENDED. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP. COORDINATE WITH OWNER IF SECURE STORAGE IS NEEDED ONSITE.
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- IX. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.

**GENERAL FINISH NOTES**

- A. CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE INSTALLATION OR FABRICATION.
- B. SEE SPECIFICATIONS FOR MORE INFORMATION ABOUT FINISH PRODUCTS AND PROCEDURES.
- C. ALL OUTLET AND LIGHT SWITCH FACE PLATE FINISHES ARE TO BE SELECTED BY DESIGNER.
- D. USE MOISTURE RESISTANT GYPSUM WALL BOARD (GWB) AT ALL KITCHEN AND BATHROOM LOCATIONS.
- E. ANY NEW OR EXISTING OBJECT IS TO BE PROTECTED BY THE CONTRACTOR DURING INSTALLATION OR CONSTRUCTION.
- F. CONTRACTOR TO OBTAIN AND PROVIDE OWNER WITH COLOR SAMPLES FOR PROPER COLOR SELECTION AND FINAL APPROVAL OF ALL FINISHES PRIOR TO INSTALLATION.
- G. PAINTING FOR GYPSUM BOARD AND WOOD CONSTRUCTION - PROVIDE TWO (2) FINISH COATS OF PREMIUM GRADE PAINT OVER SINGLE COAT OF COMPATIBLE PRIMER, PROMAR 200 SERIES BY SHERWIN WILLIAMS, CLEVELAND, OHIO OR APPROVED EQUAL. ALL PAINT BY SINGLE MANUFACTURER.

**FLOOR FINISH LEGEND**

-  EXISTING CONCRETE SLAB TO REMAIN
-  24X24 CARPET TILES - PER OWNER
-  CERAMIC TILES - PER OWNER

FOR CITY PURPOSES



**Designer:**  
**B.E. Designs, LLC.**  
21320 N. 56th St. Unit 2204  
Phoenix, AZ 85054  
623-692-4808

**Owner:**  
**Helen Bouchard-Bujak**  
4338 W. Thomas Rd. Suite 173  
Phoenix, AZ 85301  
623-341-2825

No.	Description	Date



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**FINISH FLOOR PLAN**

**A1.5**

Scale As indicated



**CONSTRUCTION NOTES**

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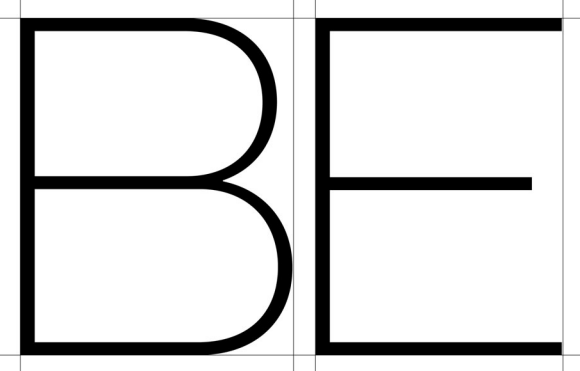
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**FLOOR FINISH LEGEND**

- EXISTING CONCRETE SLAB TO REMAIN
- 24X24 CARPET TILES - PER OWNER
- CERAMIC TILES - PER OWNER

FOR CITY PURPOSES



B. E. DESIGNS, LLC.

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Drawn By	Author
Checked By	Checker

**SECOND FLOOR FINISH PLAN**

**A1.6**

Scale As indicated

1 SECOND FLOOR FINISH PLAN  
 3/16" = 1'-0"



B. E. DESIGNS, LLC.

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**B.E. Designs, LLC.**  
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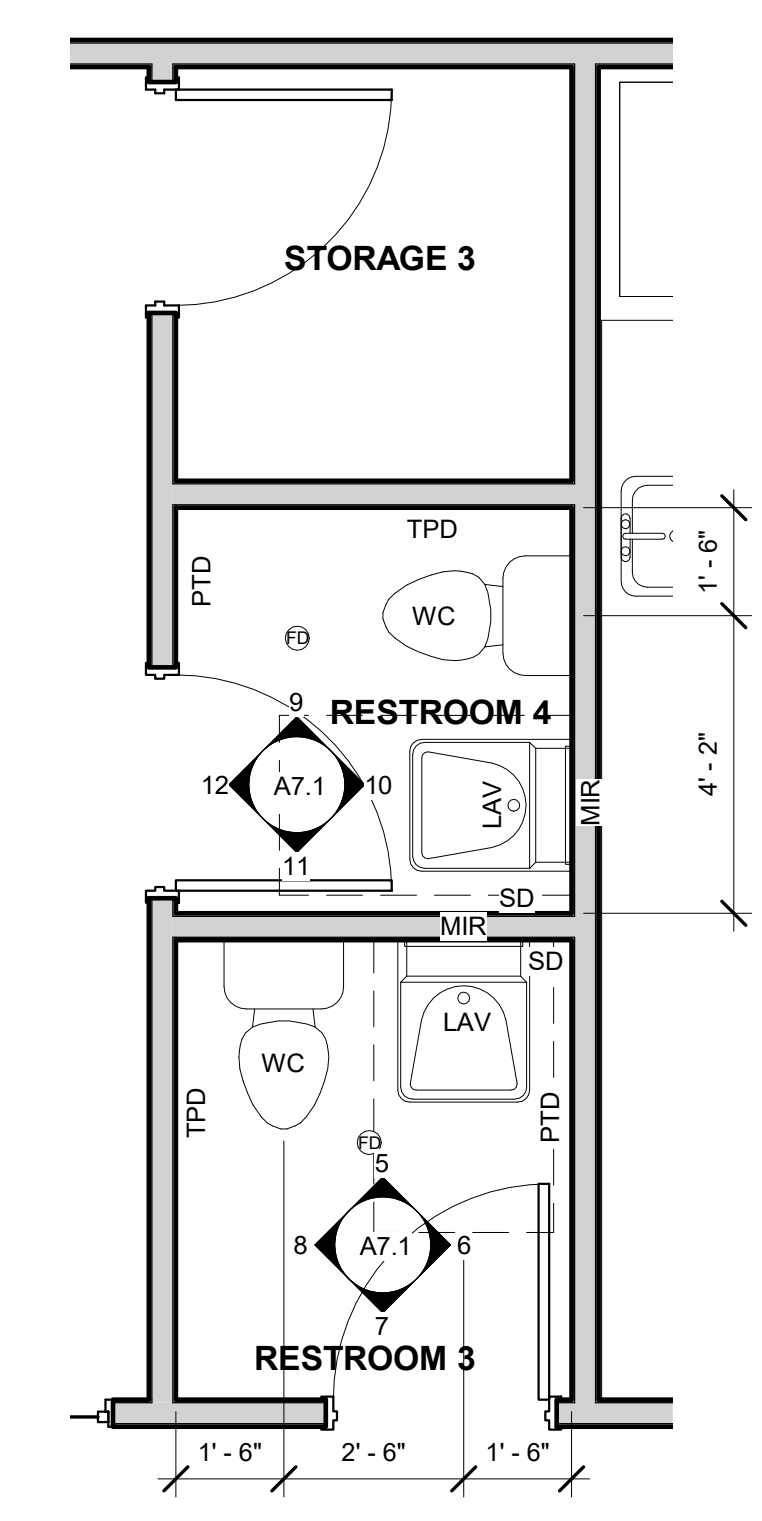
**Owner:**  
**Helen Bouchard-Bujak**  
 4338 W. Thomas Rd. Suite 173  
 Phoenix, AZ 85301  
 623-341-2825

**CONSTRUCTION NOTES**

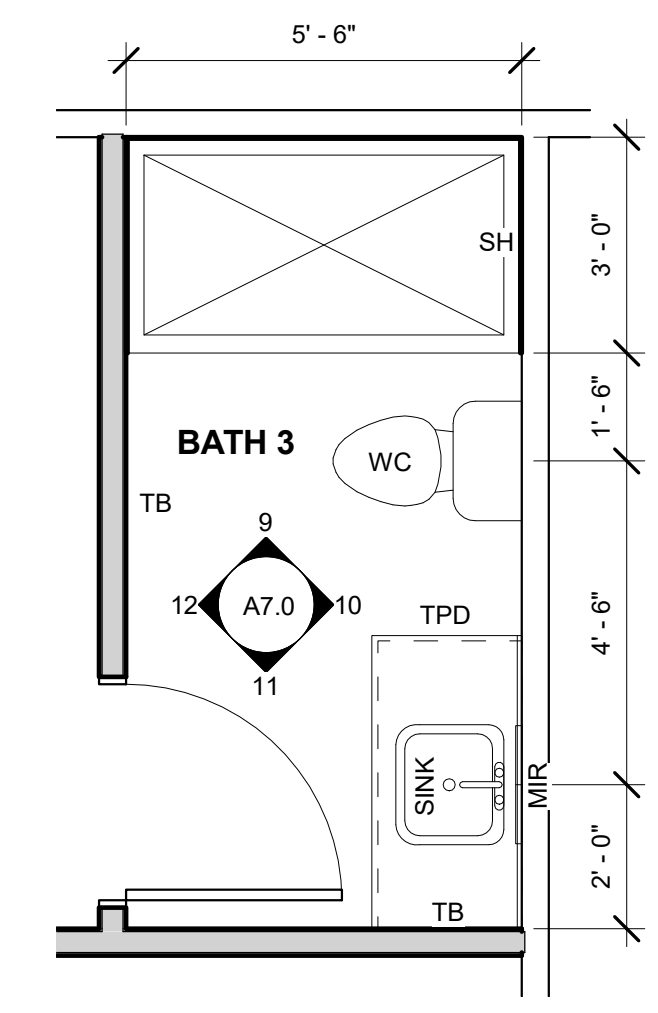
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**ABBREVIATIONS**

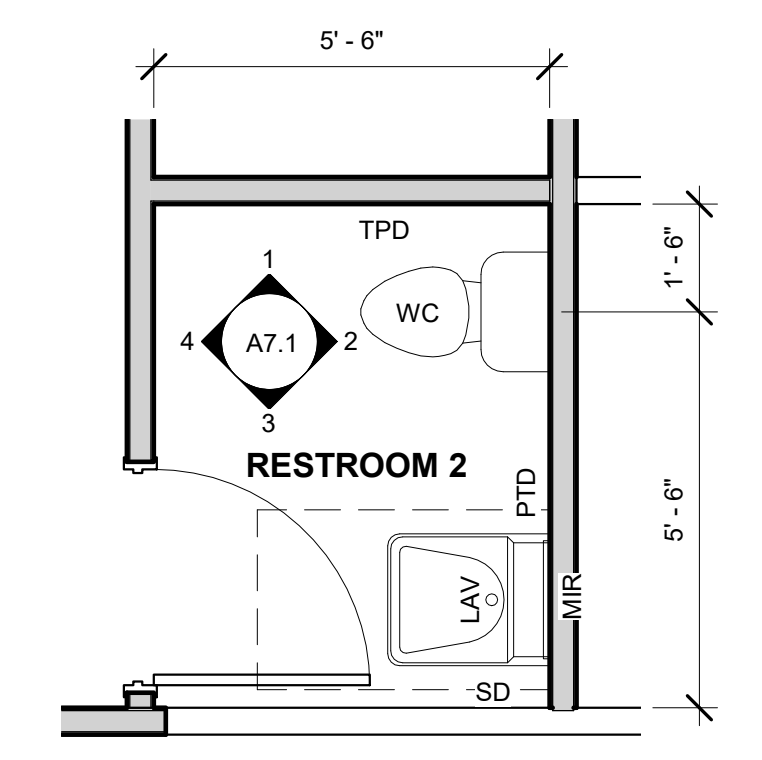
- AWC ACCESSIBLE WATER CLOSET
- GB GRAB BAR
- LAV LAVATORY
- MIR MIRROR
- PTD PAPER TOWEL DISPENSER
- SD SOAP DISPENSER
- SH SHOWER HEAD
- TB TOWEL BAR
- TPD TOILET PAPER DISPENSER
- WC WATER CLOSET



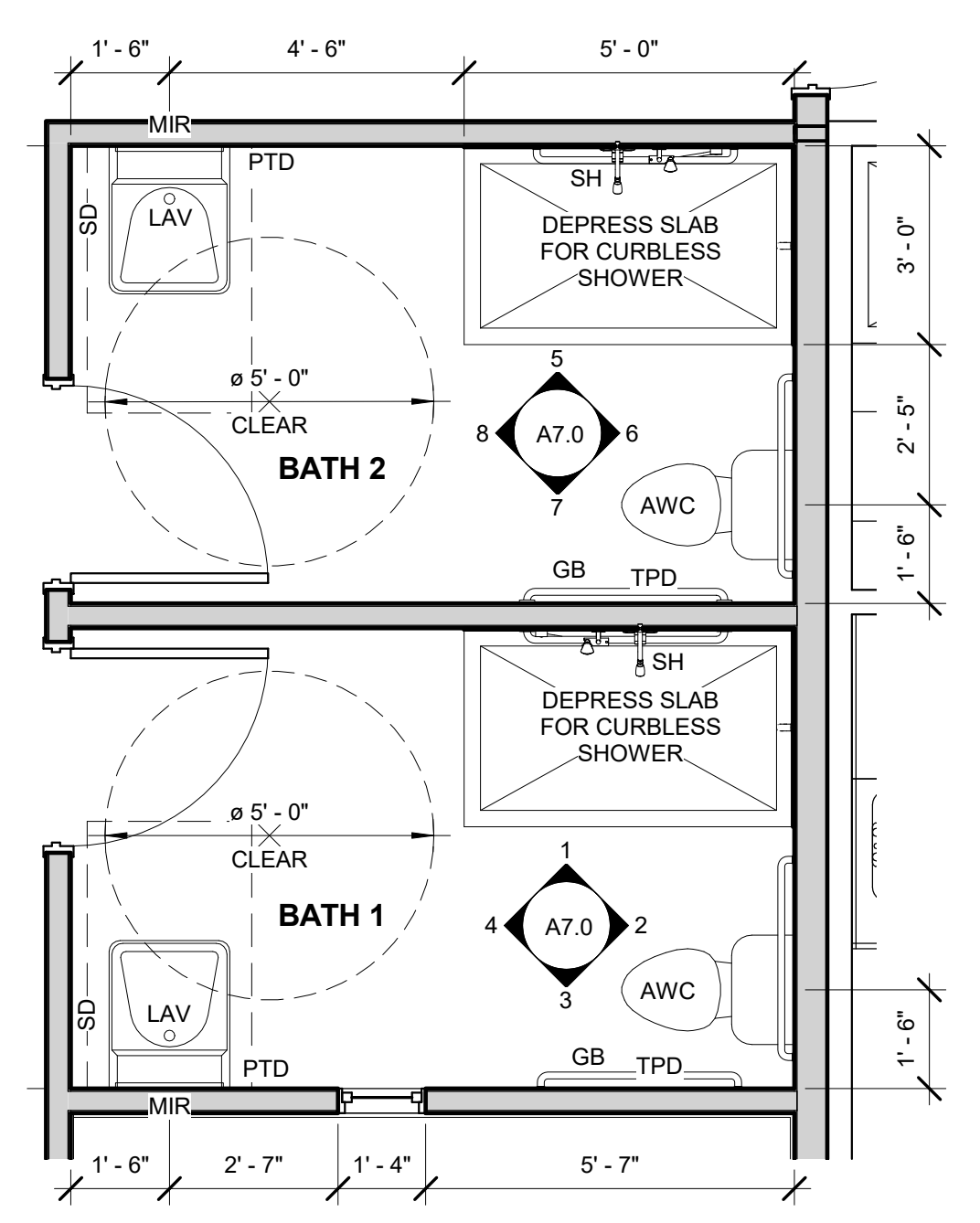
3 ENLARGED PLAN - RR 3 & RR 4  
 3/8" = 1'-0"



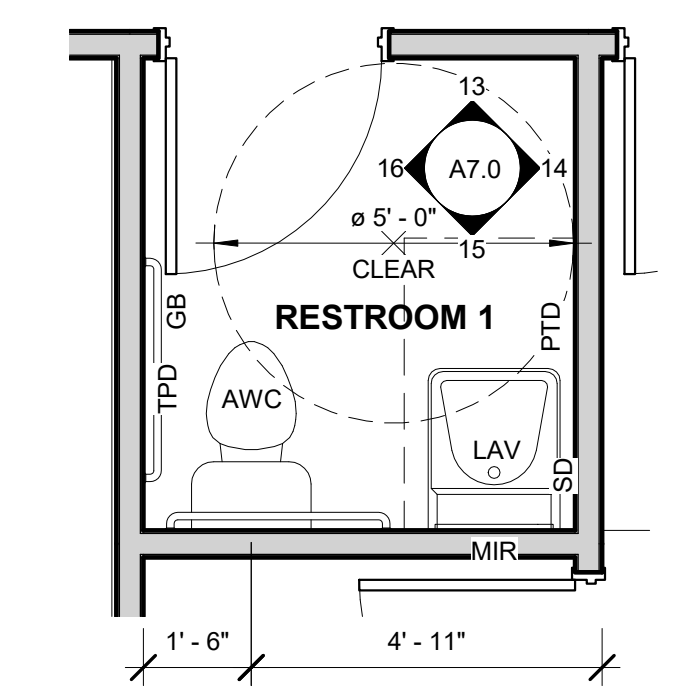
5 ENLARGED PLAN - BATH 3  
 3/8" = 1'-0"



2 ENLARGED PLAN - RESTROOM 2  
 3/8" = 1'-0"



4 ENLARGED PLAN - BATH 1 & BATH 2  
 3/8" = 1'-0"



1 ENLARGED PLAN - RESTROOM 1  
 3/8" = 1'-0"

FOR CITY PURPOSES



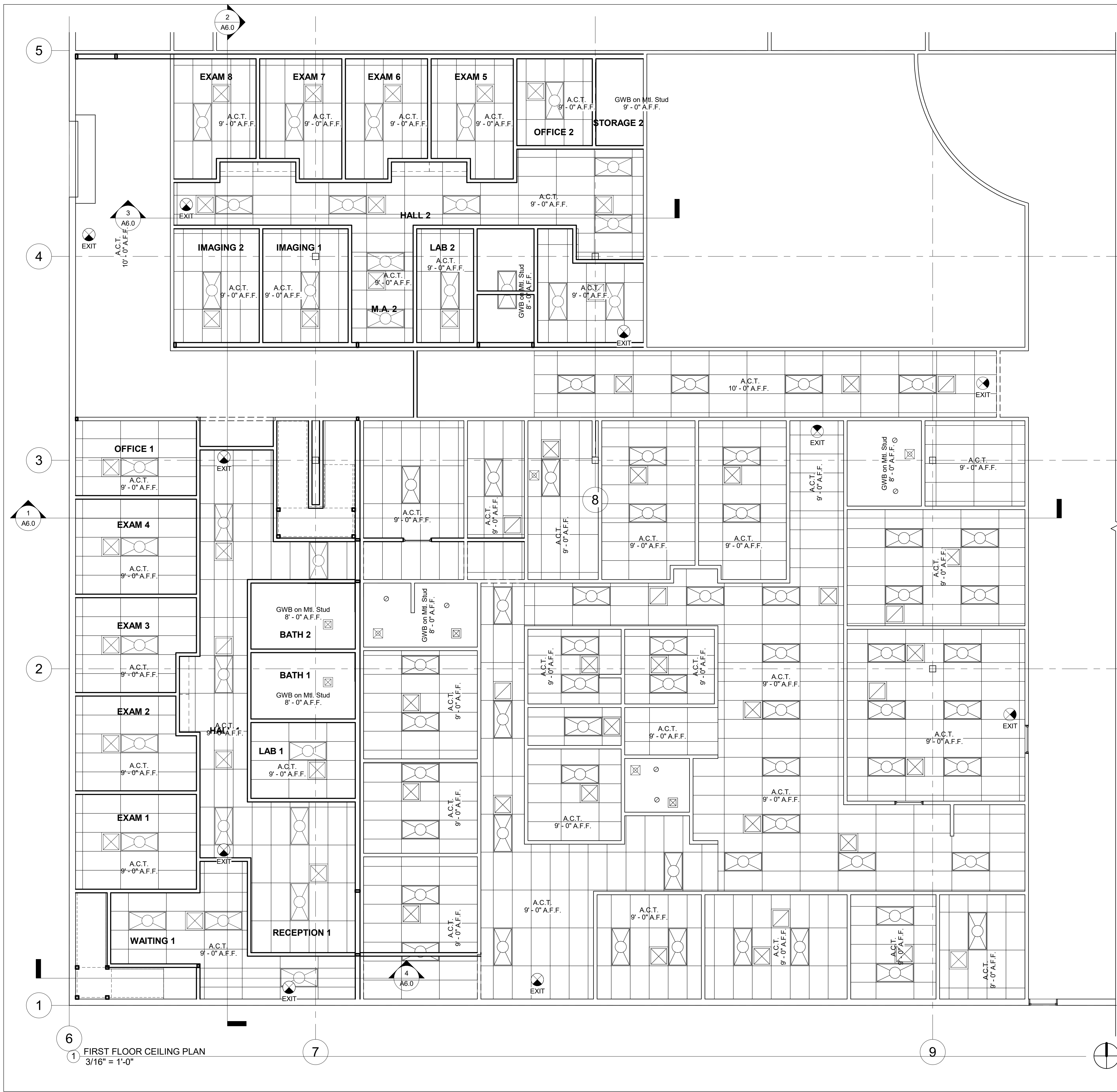
**WEST VALLEY OB-GYN**  
 4338 W. Thomas Rd.  
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 Phoenix, AZ 85301

Project Number	21066
Date	5/1/23
Drawn By	BJE
Checked By	BJE

**ENLARGED PLANS**

**A1.7**

Scale As indicated



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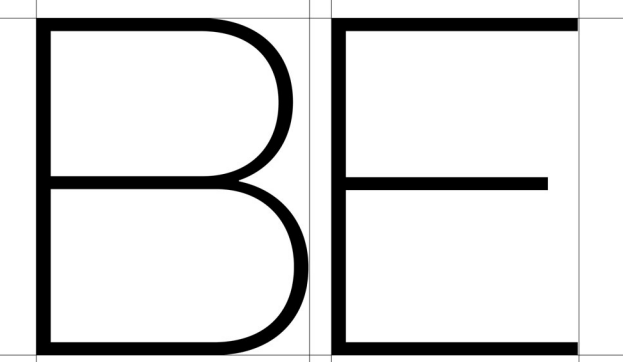
**RCP NOTES**

- A. CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE INSTALLATION OR FABRICATION.
- B. REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS FOR SUPPLY AIR DIFFUSER, RETURN AIR DIFFUSER AND LIGHT FIXTURE SPECIFICATIONS.
- C. REFER TO FINISH SCHEDULE FOR ALL INTERIOR FINISHES.
- D. CONTRACTOR TO VERIFY PLACEMENT OF ALL LIGHT FIXTURES AND CEILING FANS PRIOR TO INSTALLATION.

**RCP LEGEND**

- ⊗ EXIT SIGN - SEE ELECTRICAL
- ⊗ SUPPLY AIR DIFFUSER - SEE MECHANICAL
- ⊗ RETURN AIR DIFFUSER - SEE MECHANICAL
- ⊗ EXHAUST FAN - SEE MECHANICAL

FOR CITY PURPOSES



B. E. DESIGNS, LLC.

**Designer:**  
**B.E. Designs, LLC.**  
 21320 N. 56th St. Unit 2204  
 Phoenix, AZ 85054  
 623-692-4808

**Owner:**  
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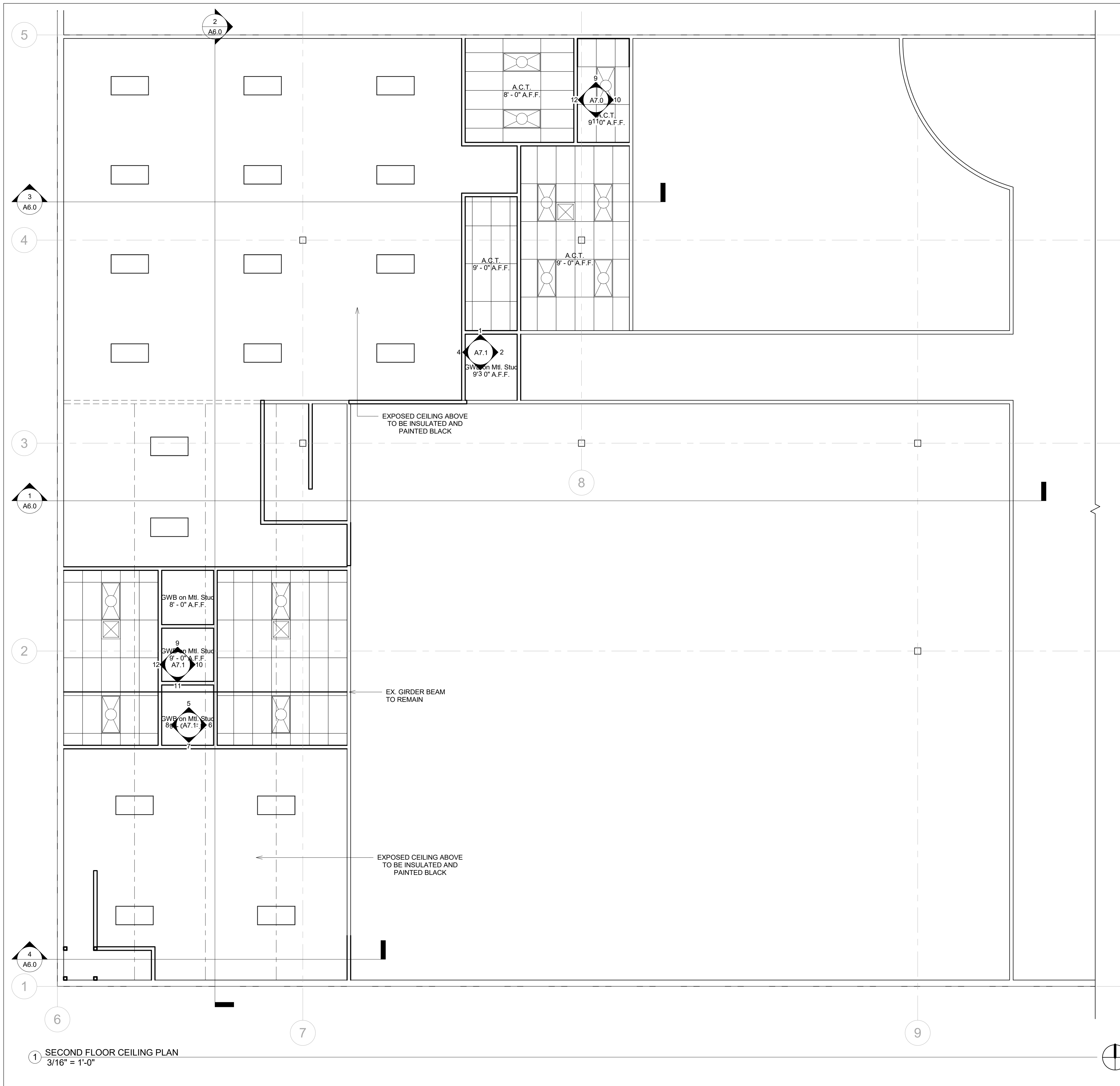
Project Number	21066
Date	5/1/23
Drawn By	BJE
Checked By	BJE

**FIRST FLOOR CEILING PLAN**

**A3.0**

Scale As indicated

6 FIRST FLOOR CEILING PLAN  
 3/16" = 1'-0"



1 SECOND FLOOR CEILING PLAN  
3/16" = 1'-0"

**CONSTRUCTION NOTES**

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**RCP LEGEND**

- ⊗ EXIT SIGN - SEE ELECTRICAL
- ⊠ SUPPLY AIR DIFFUSER - SEE MECHANICAL
- ⊡ RETURN AIR DIFFUSER - SEE MECHANICAL
- ⊞ EXHAUST FAN - SEE MECHANICAL

FOR CITY PURPOSES



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**SECOND FLOOR CEILING PLAN**

**A3.1**

Scale As indicated



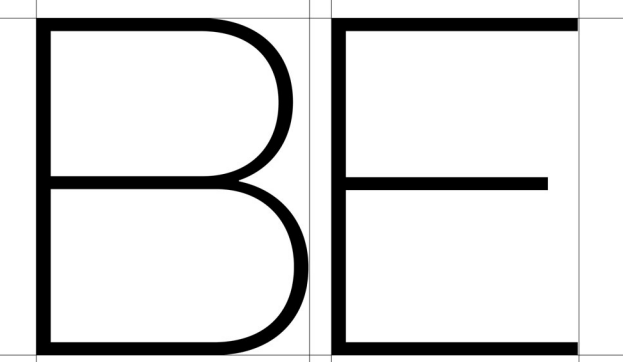
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**ROOFING NOTES**

- A. ALL FLASHING SHALL MATCH COLOR OF ROOFING MATERIAL UNLESS NOTED OTHERWISE.
- B. FRAMER TO ENSURE ALL ROOF BEARING POINTS ARE BRACED SO ALL LOADS TERMINATE AT FOOTING.
- C. ROOF VENTS SHALL BE INSTALLED PER LOCAL CODE WHERE VENTED ACTIC IS SPECIFIED.

FOR CITY PURPOSES



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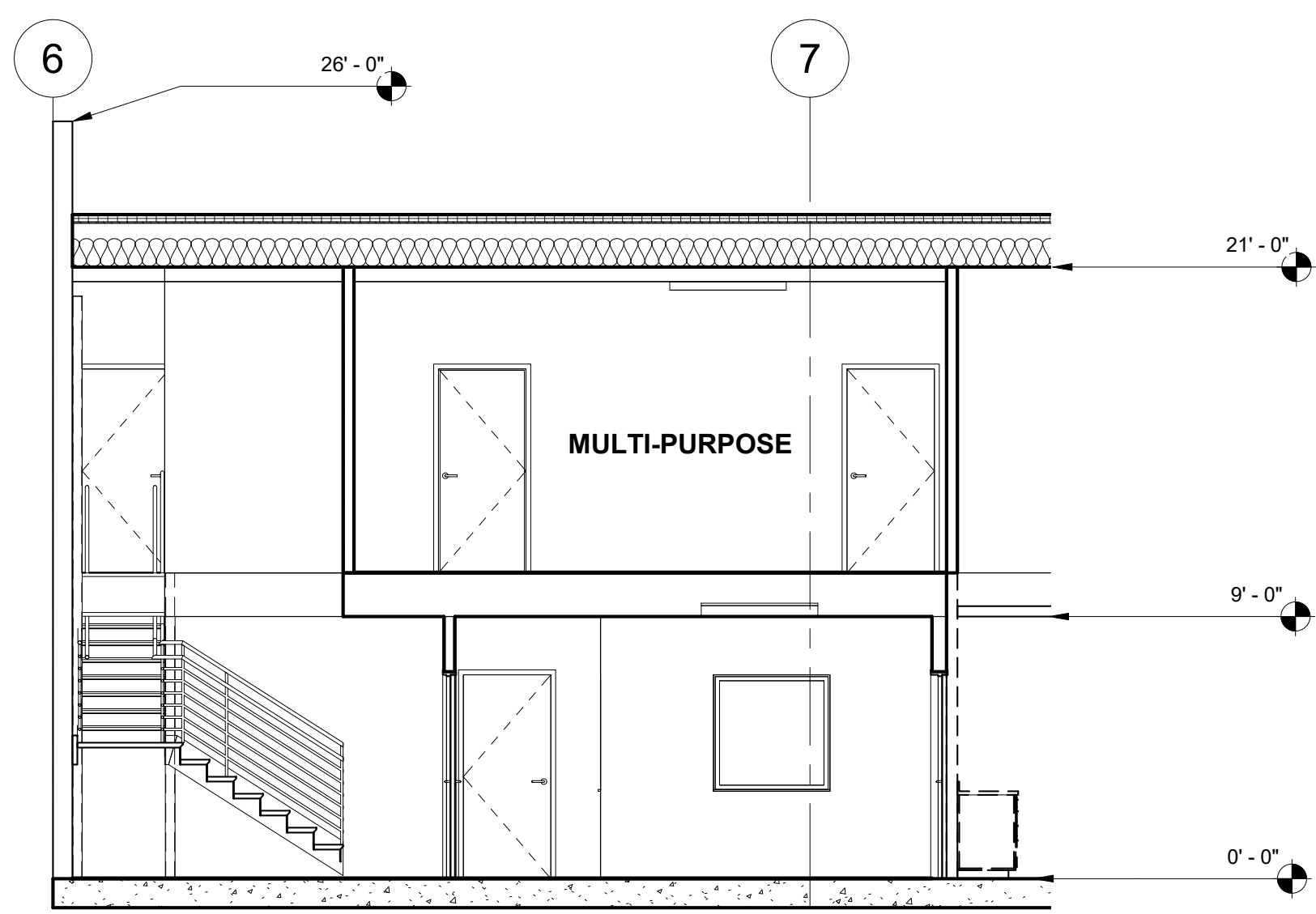
Project Number	21066
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**ROOF PLAN**

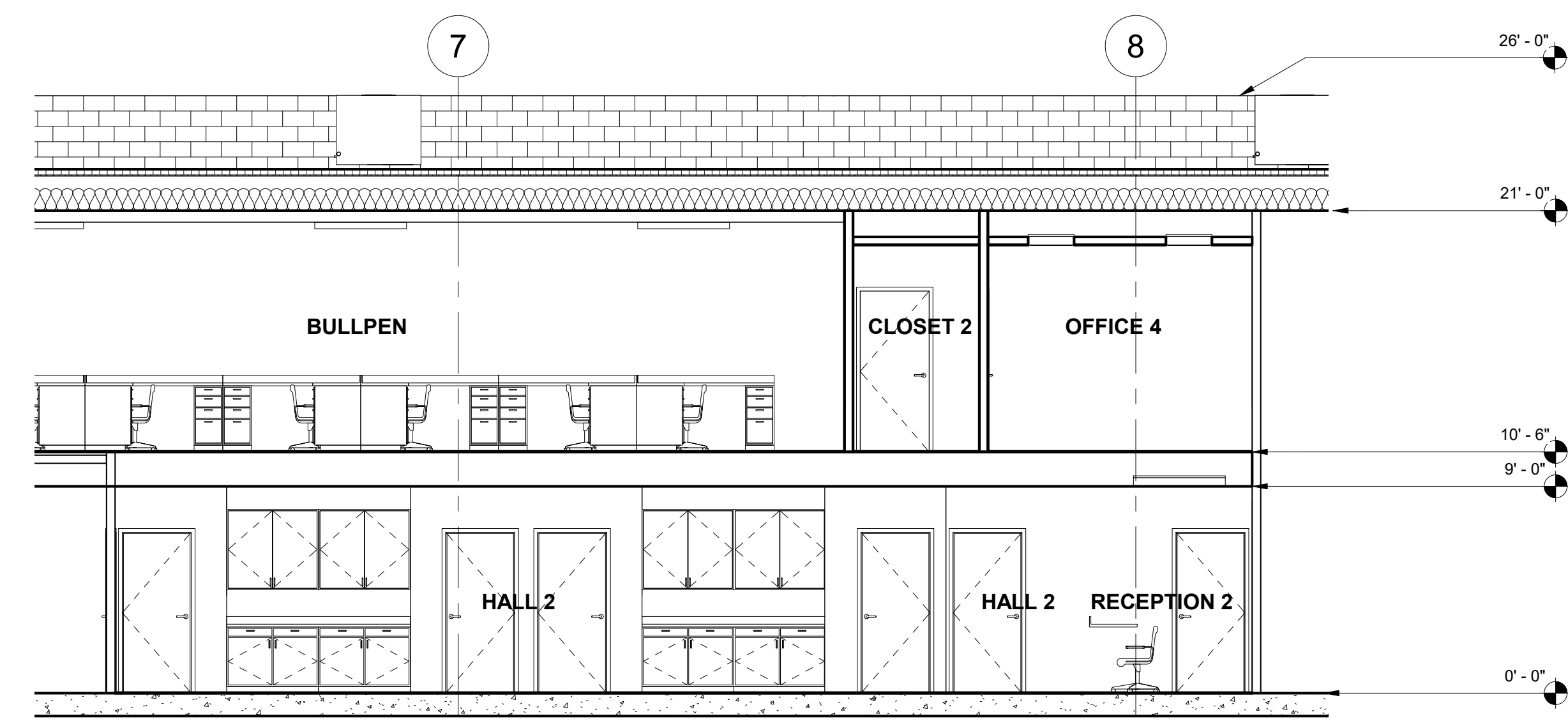
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Scale As indicated

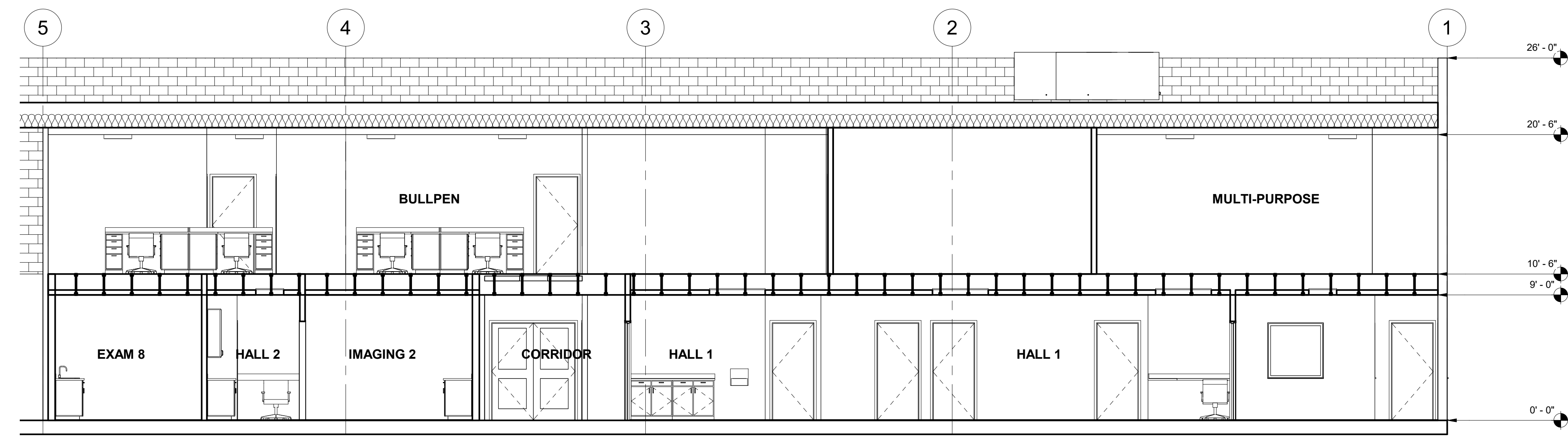
1 EXISTING ROOF PLAN  
 3/16" = 1'-0"



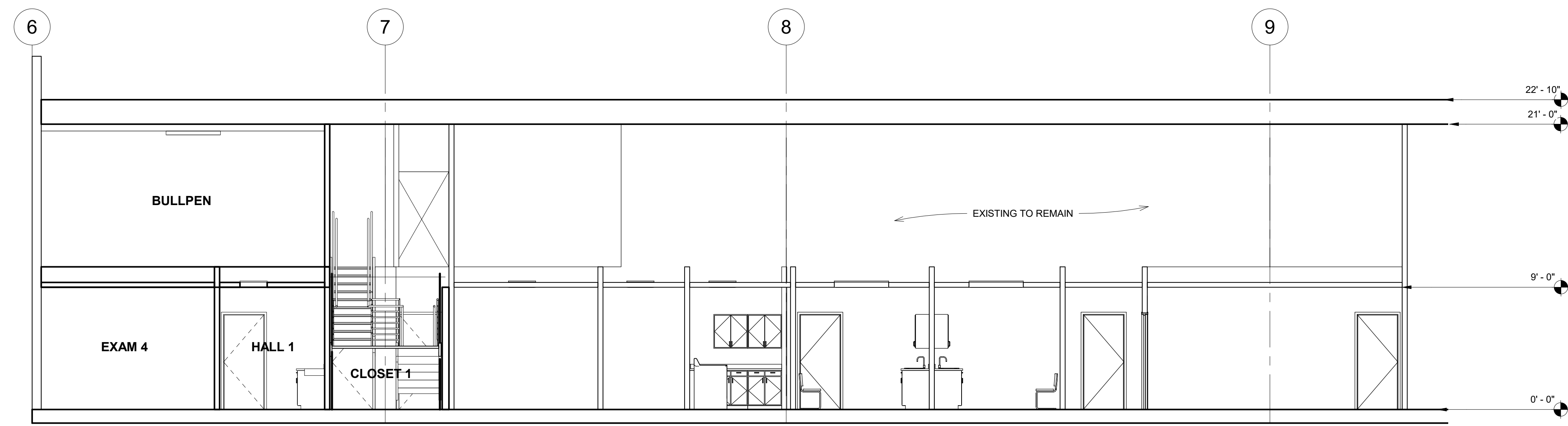
4 Section 4  
3/16" = 1'-0"



3 Section 3  
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2 Section 2  
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Drawn By	BJE
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**BUILDING SECTIONS**

**A6.0**

Scale As indicated

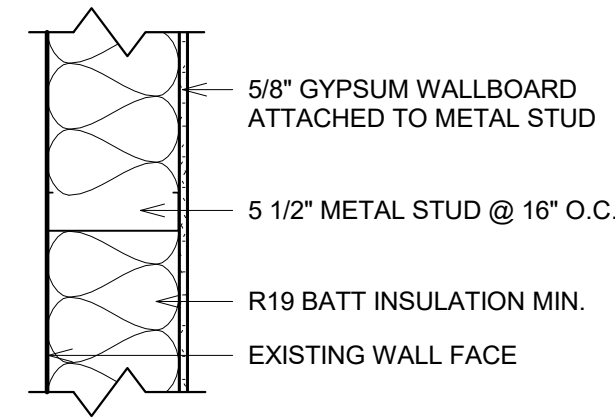
FOR CITY PURPOSES

**NOTE:**

USE 600S250-68 LIGHT GAUGE STUDS AT 12" O.C. TYP. AT ALL STRUCTURAL WALLS. 5/8" GWB WALL COVERING W/ #6 SCREWS MIN. AT 6" O.C. AT SUPPORTED EDGES. BRIDGING REQUIRED BETWEEN STUDS AT MIDSPAN MIN. - SEE DETAIL 5/S3.0

INTERIOR

INTERIOR



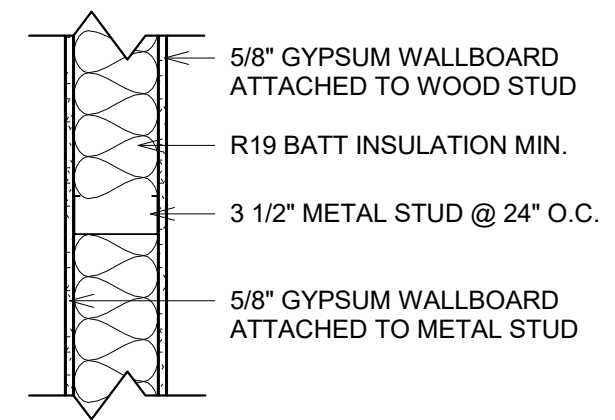
④ WALL - NEW INTERIOR WALL 5.5" METAL STUD  
1 1/2" = 1'-0"

**NOTE:**

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INTERIOR

INTERIOR



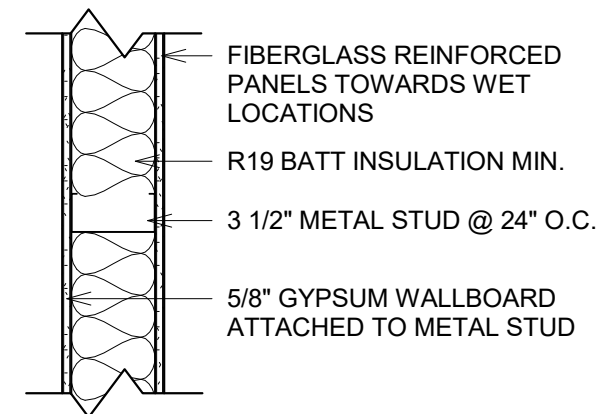
③ WALL - NEW INTERIOR WALL 3.5" METAL STUD  
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INTERIOR

INTERIOR



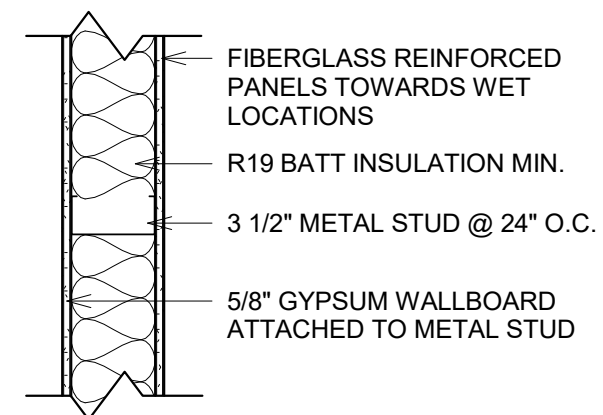
⑥ WALL - NEW INTERIOR WALL 3.5" METAL STUD W/ FRP BOTH SIDES  
1 1/2" = 1'-0"

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INTERIOR

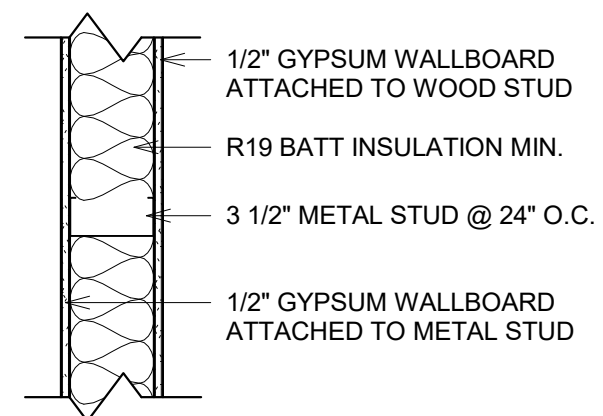
INTERIOR



⑤ WALL - NEW INTERIOR WALL 3.5" METAL STUD W/ FRP ONE-SIDE  
1 1/2" = 1'-0"

INTERIOR

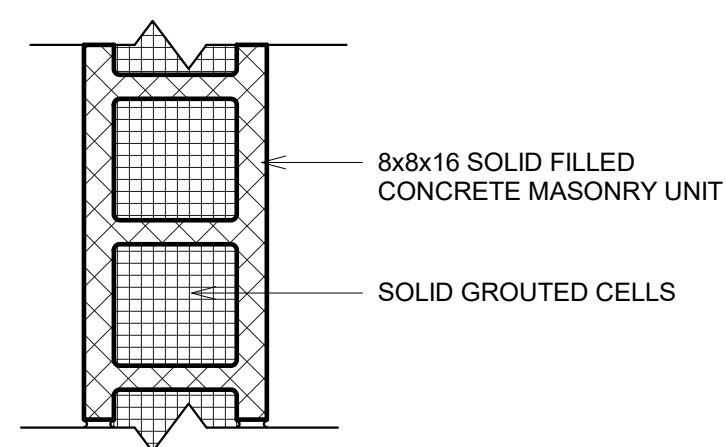
INTERIOR



② WALL - EXISTING INTERIOR WALL 3.5" METAL STUD  
1 1/2" = 1'-0"

EXTERIOR

INTERIOR



① WALL - EXISTING EXTERIOR WALL CMU  
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**Designer:**  
**B.E. Designs, LLC.**  
21320 N. 56th St. Unit 2204  
Phoenix, AZ 85054  
623-692-4808

**Owner:**  
**Helen Bouchard-Bujak**  
4338 W. Thomas Rd. Suite 173  
Phoenix, AZ 85301  
623-341-2825

No.	Description	Date



**WEST VALLEY OB-GYN**  
4338 W. Thomas Rd.  
Suite #173  
Phoenix, AZ 85301

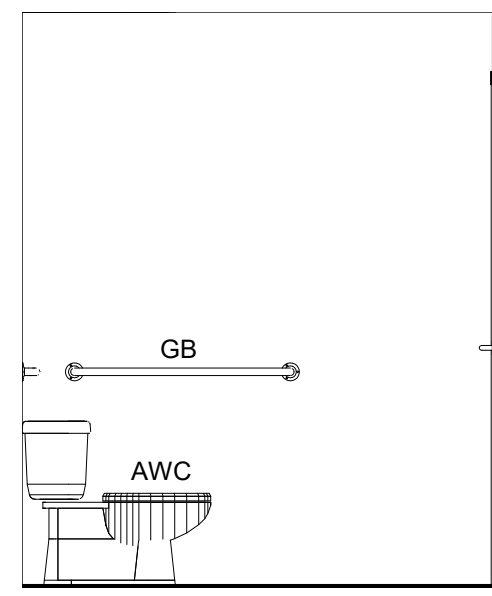
Project Number	21066
Date	5/1/23
Drawn By	BJE
Checked By	BJE

**WALL TYPES**

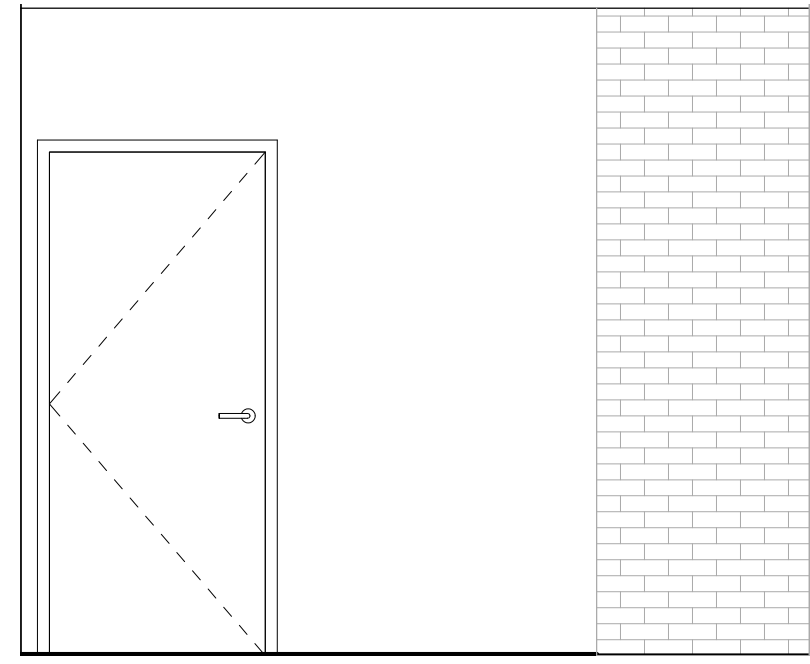
**A6.4**

Scale As indicated

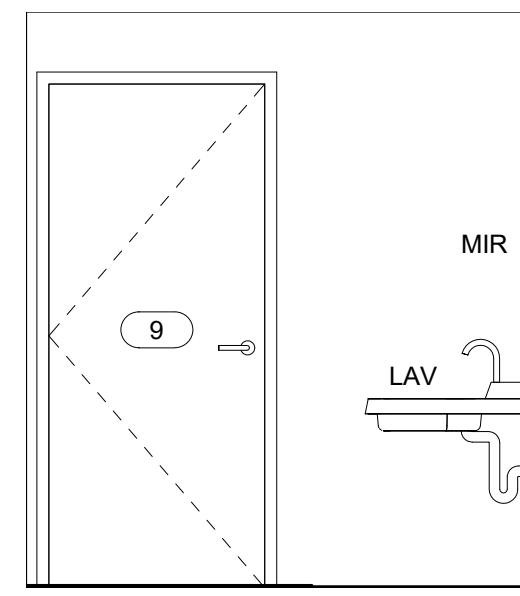
FOR CITY PURPOSES



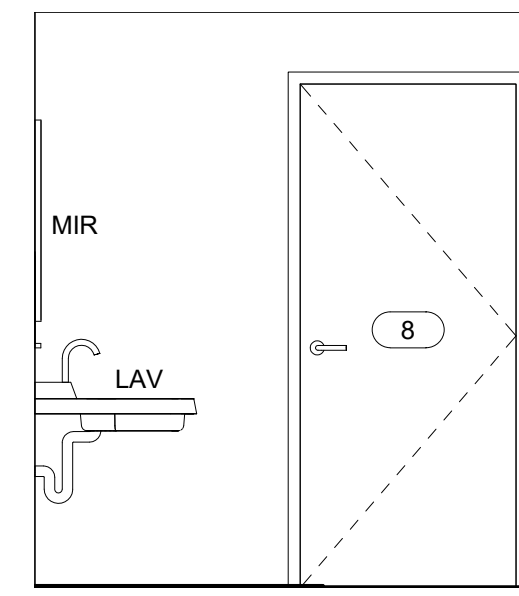
16 RESTROOM 1 - WEST  
3/8" = 1'-0"



12 BATH 3 - WEST  
3/8" = 1'-0"



8 BATH 2 - WEST  
3/8" = 1'-0"



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**FOR CITY PURPOSES**



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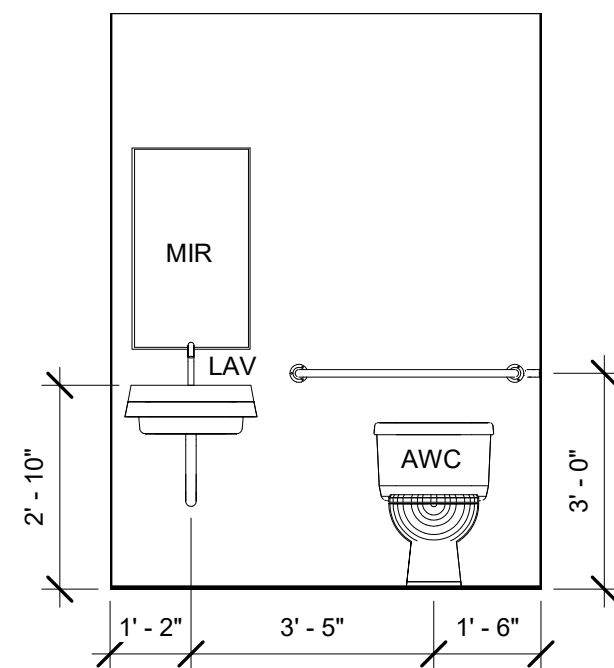
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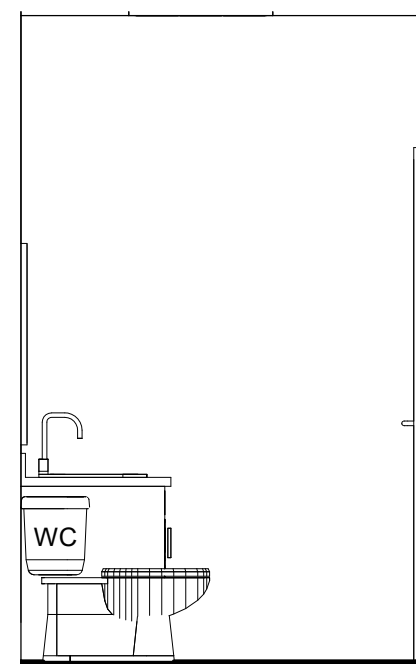
**INTERIOR ELEVATIONS**

**A7.0**

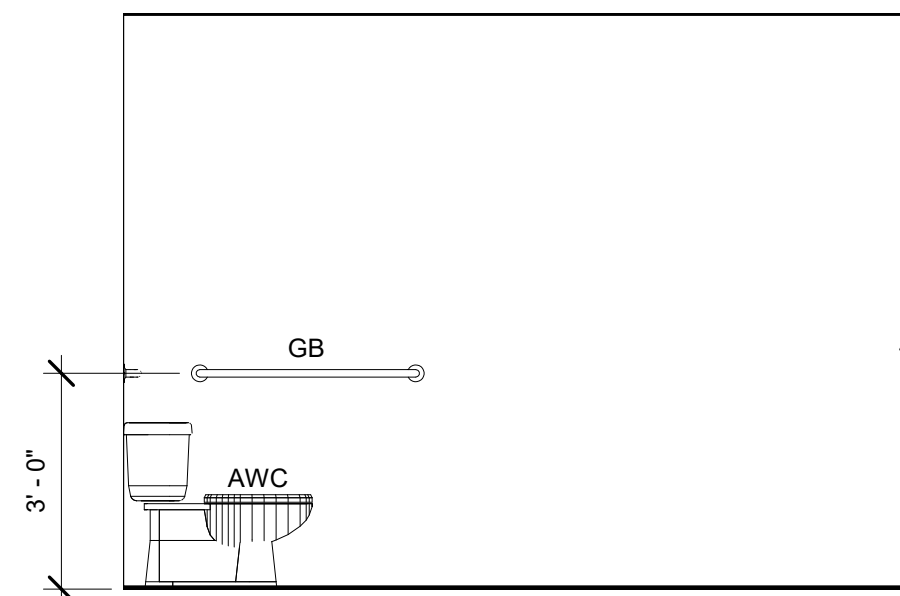
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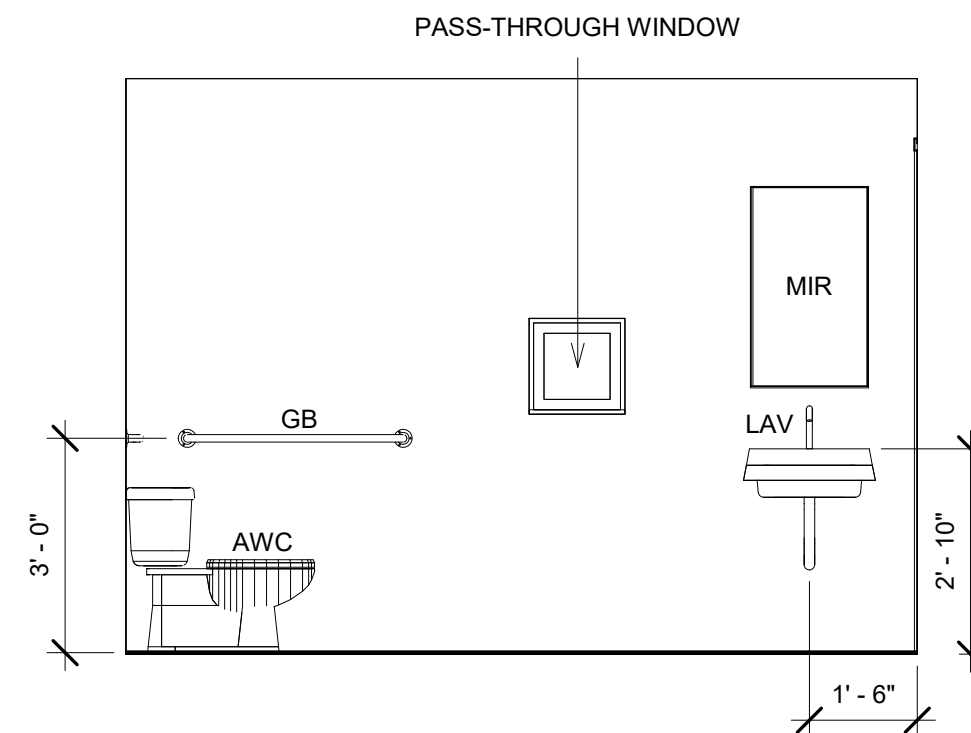
15 RESTROOM 1 - SOUTH  
3/8" = 1'-0"



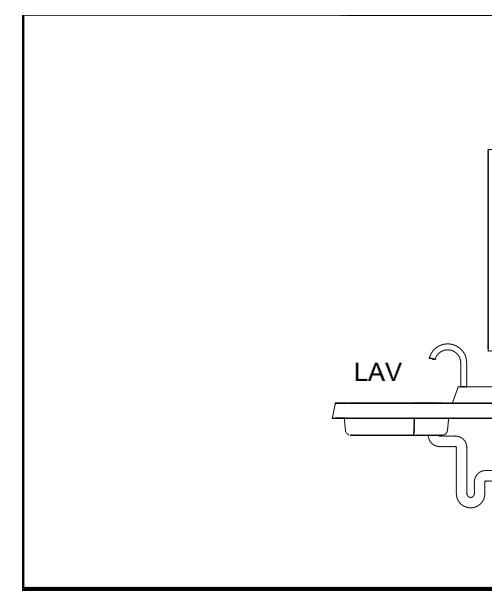
11 BATH 3 - SOUTH  
3/8" = 1'-0"



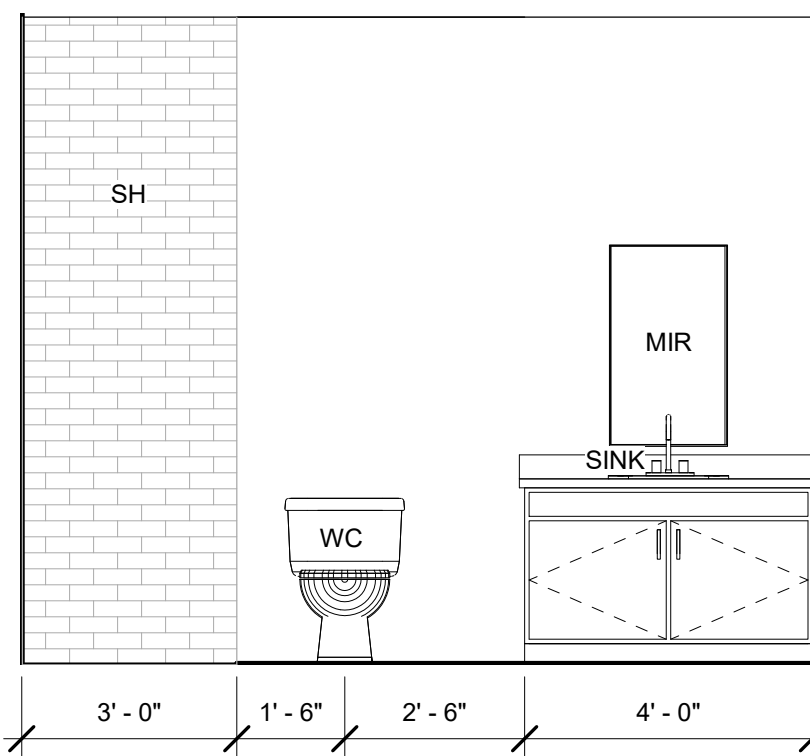
7 BATH 2 - SOUTH  
3/8" = 1'-0"



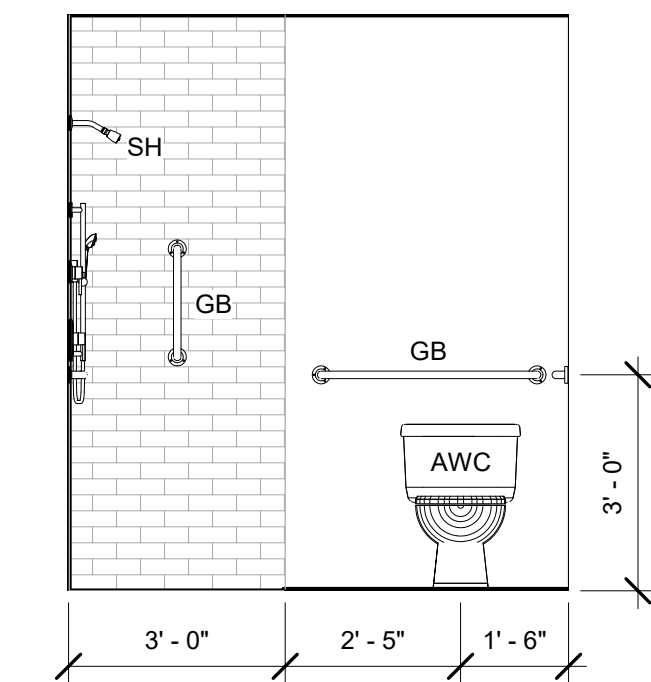
3 BATH 1 - SOUTH  
3/8" = 1'-0"



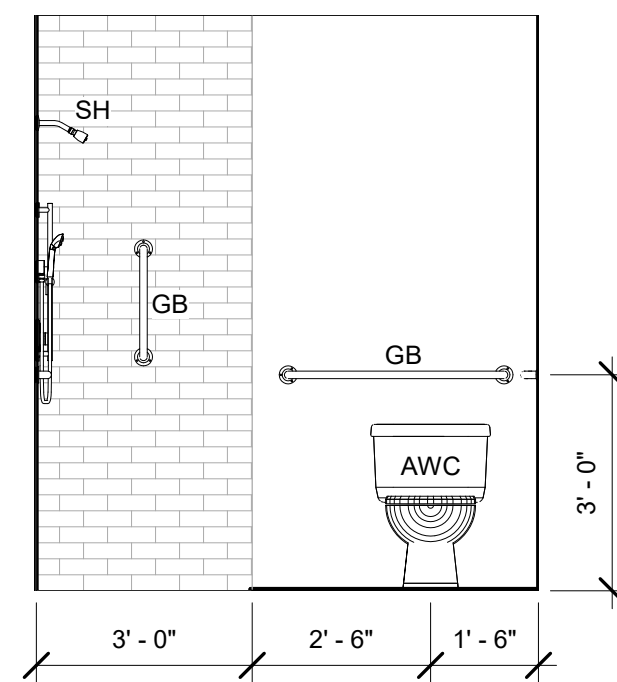
14 RESTROOM 1 - EAST  
3/8" = 1'-0"



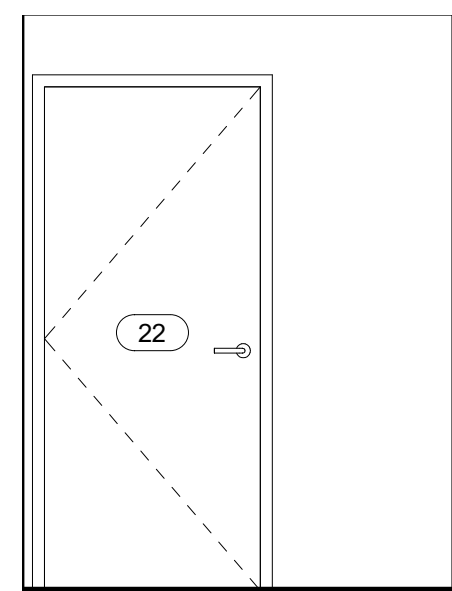
10 BATH 3 - EAST  
3/8" = 1'-0"



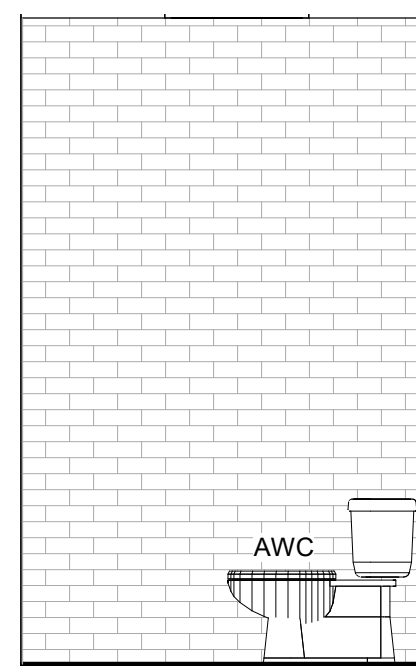
6 BATH 2 - EAST  
3/8" = 1'-0"



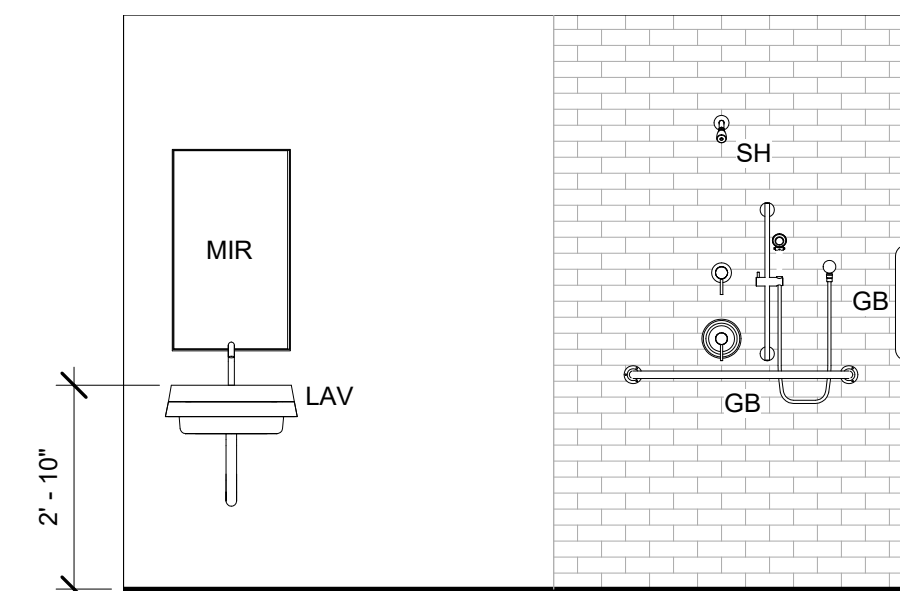
2 BATH 1 - EAST  
3/8" = 1'-0"



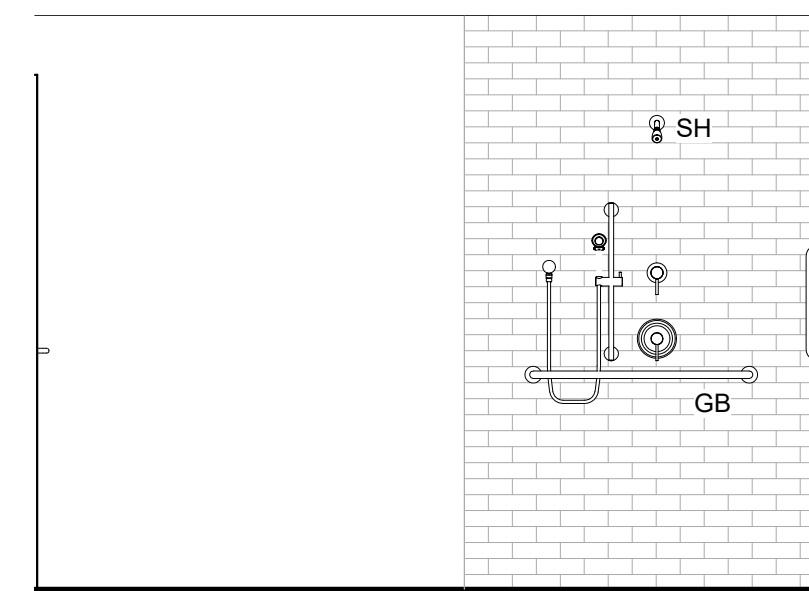
13 RESTROOM 1 - NORTH  
3/8" = 1'-0"



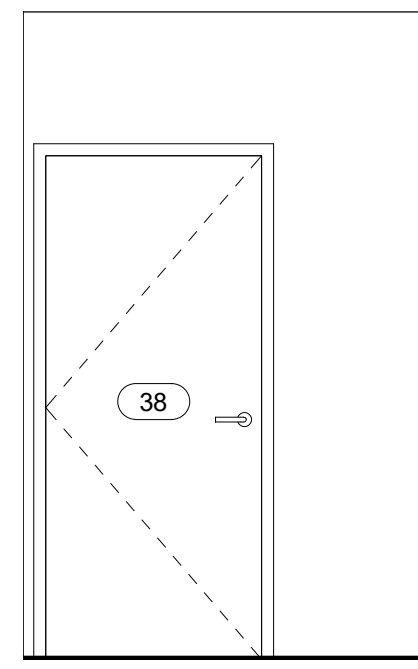
9 BATH 3 - NORTH  
3/8" = 1'-0"



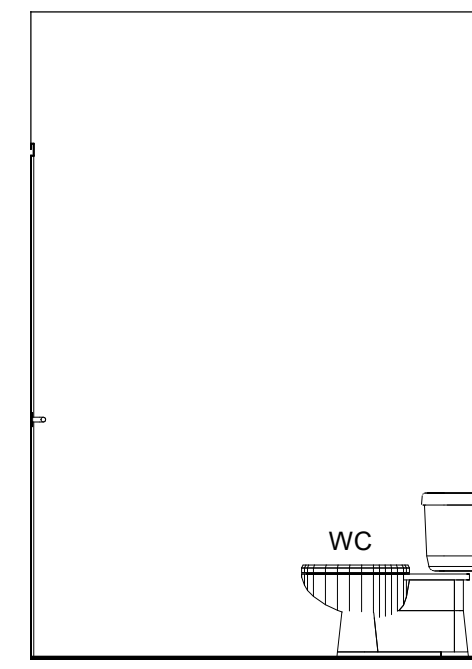
5 BATH 2 - NORTH  
3/8" = 1'-0"



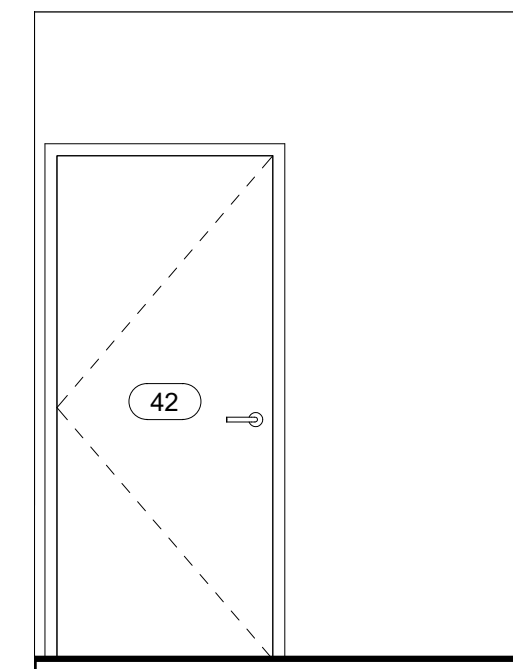
1 BATH 1 - NORTH  
3/8" = 1'-0"



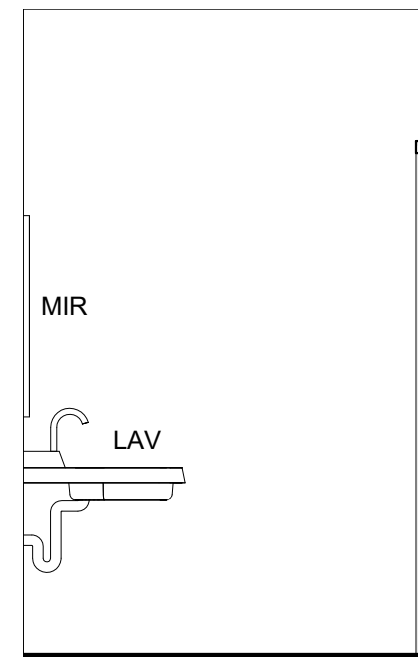
12 RESTROOM 4 - WEST  
3/8" = 1'-0"



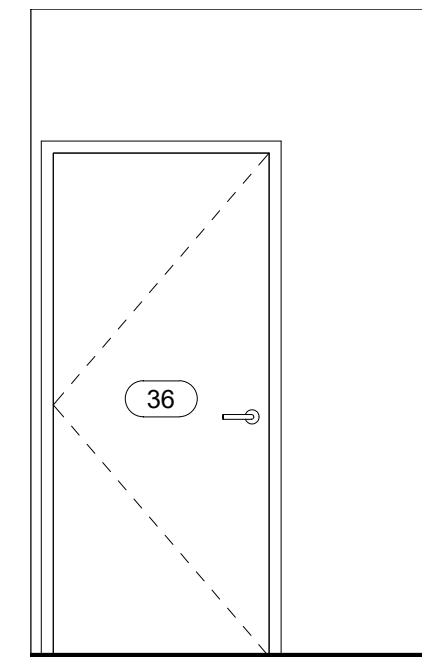
8 RESTROOM 3 - WEST  
3/8" = 1'-0"



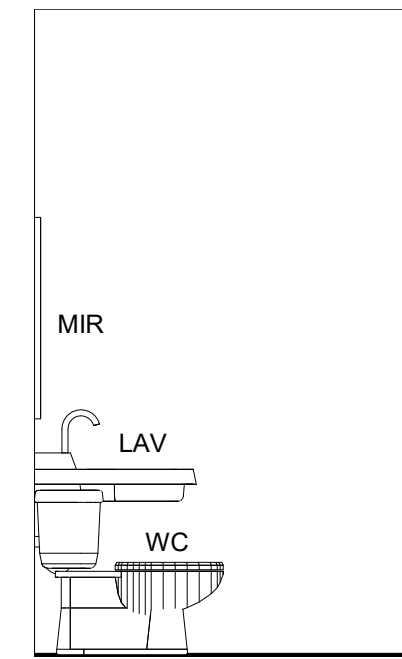
4 RESTROOM 2 - WEST  
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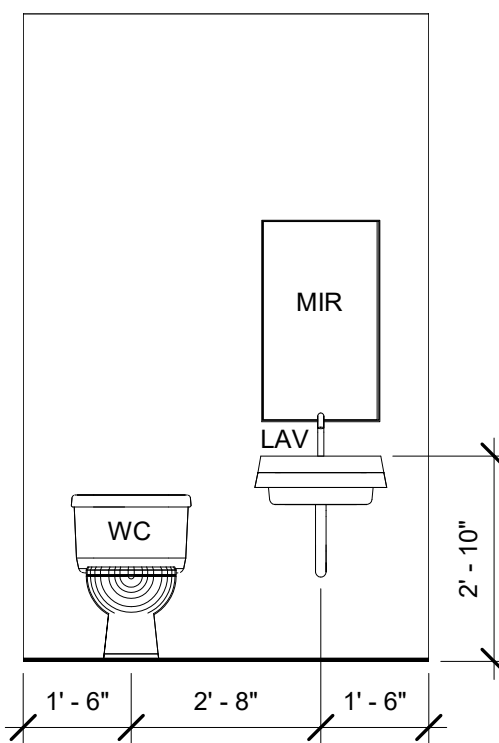
11 RESTROOM 4 - SOUTH  
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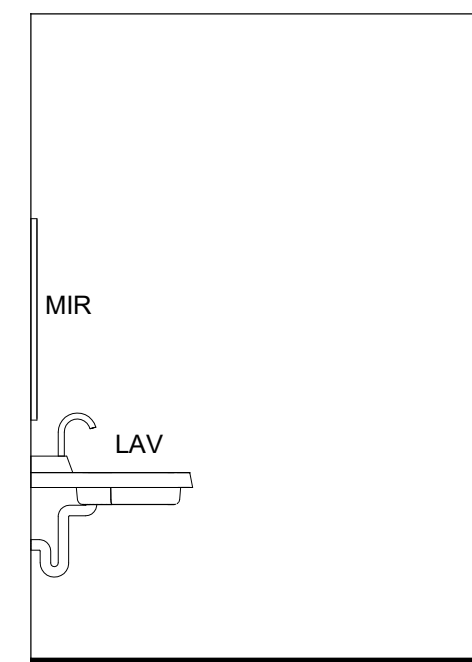
7 RESTROOM 3 - SOUTH  
3/8" = 1'-0"



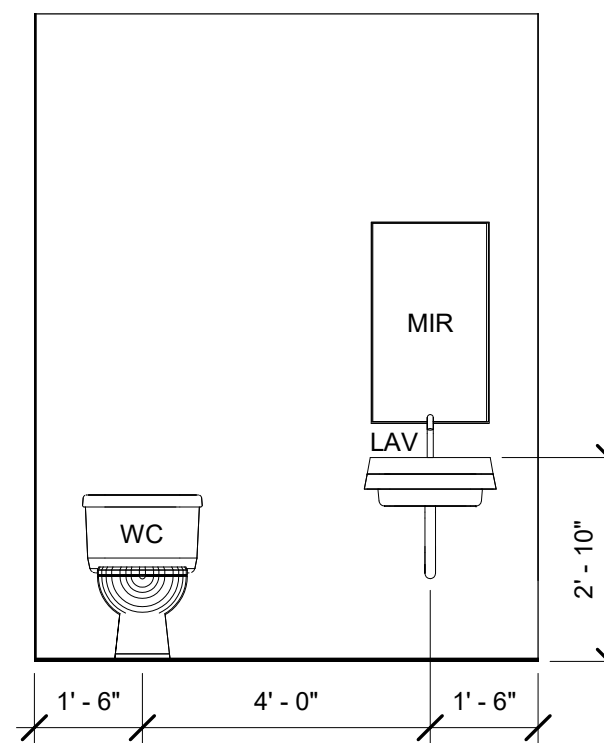
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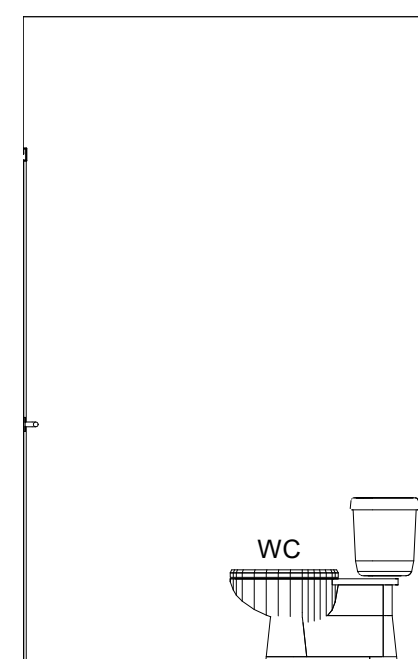
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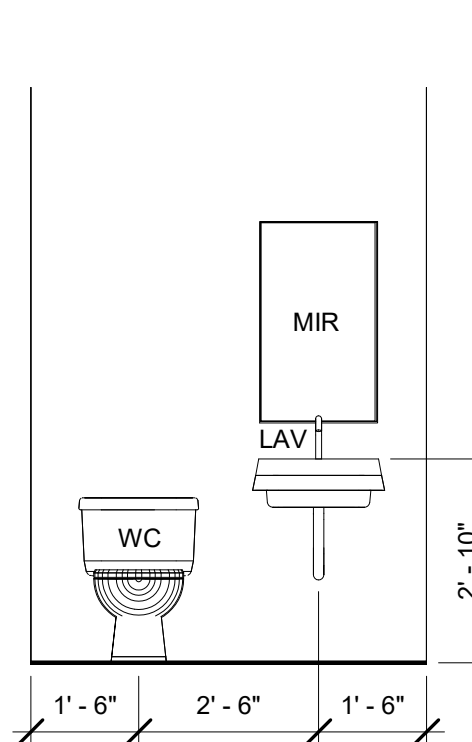
6 RESTROOM 3 - EAST  
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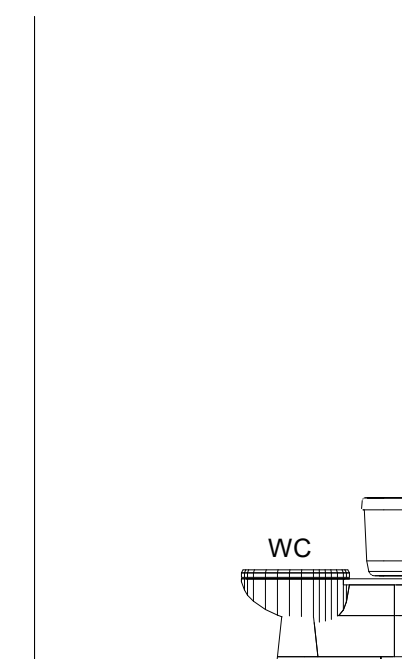
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**INTERIOR ELEVATIONS**

**A7.1**

Scale	As indicated
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DOOR SCHEDULE								
MARK	DOOR TYPE	TYPE	QUANTITY	HEIGHT	WIDTH	THICKNESS	FIRE RATING	COMMENTS
1	A	ALUMINUM STOREFRONT DOOR	1	7'-0"	6'-0"	0'-2"		
2	C	SOLID WOOD DOOR W/ VISION PANEL	1	7'-0"	3'-0"	0'-2"		
3	F	SOLID WOOD DOOR W/ VISION PANEL AND CARD ACCESS	1	7'-0"	3'-0"	0'-2"		KEY CARD ACCESS W/ SELF-CLOSING DEVICE
4	F	SOLID WOOD DOOR W/ VISION PANEL AND CARD ACCESS	1	7'-0"	3'-0"	0'-2"		KEY CARD ACCESS W/ SELF-CLOSING DEVICE
5	D	SOLID WOOD DOOR	1	7'-0"	3'-0"	0'-2"		
6	D	SOLID WOOD DOOR	1	7'-0"	3'-0"	0'-2"		
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13	D	SOLID WOOD DOOR	1	7'-0"	3'-0"	0'-2"		
14	F	SOLID WOOD DOOR W/ VISION PANEL AND CARD ACCESS	1	7'-0"	3'-0"	0'-2"		KEY CARD ACCESS W/ SELF-CLOSING DEVICE
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23	D	SOLID WOOD DOOR	1	7'-0"	3'-0"	0'-2"		
24	D	SOLID WOOD DOOR	1	7'-0"	3'-0"	0'-2"		
25	D	SOLID WOOD DOOR	1	7'-0"	3'-0"	0'-2"		
26	D	SOLID WOOD DOOR	1	7'-0"	3'-0"	0'-2"		
27	D	SOLID WOOD DOOR	1	7'-0"	3'-0"	0'-2"		
28	D	SOLID WOOD DOOR	1	7'-0"	3'-0"	0'-2"		
29	D	SOLID WOOD DOOR	1	7'-0"	3'-0"	0'-2"		
30	F	SOLID WOOD DOOR W/ VISION PANEL AND CARD ACCESS	1	7'-0"	3'-0"	0'-2"		KEY CARD ACCESS W/ SELF-CLOSING DEVICE
31	B	SERVICE DOOR	1	7'-0"	3'-6"	0'-2"		
32	E	OVERHEAD ROLL-UP DOOR	1	10'-0"	8'-0"	0'-3"		
33	C	SOLID WOOD DOOR W/ VISION PANEL	1	7'-0"	3'-0"	0'-2"		
34	C	SOLID WOOD DOOR W/ VISION PANEL	1	7'-0"	3'-0"	0'-2"		
35	C	SOLID WOOD DOOR W/ VISION PANEL	1	7'-0"	3'-0"	0'-2"		
36	D	SOLID WOOD DOOR	1	7'-0"	3'-0"	0'-2"		
37	C	SOLID WOOD DOOR W/ VISION PANEL	1	7'-0"	3'-0"	0'-2"		
38	D	SOLID WOOD DOOR	1	7'-0"	3'-0"	0'-2"		
39	D	SOLID WOOD DOOR	1	7'-0"	3'-0"	0'-2"		
40	C	SOLID WOOD DOOR W/ VISION PANEL	2	7'-0"	3'-0"	0'-2"		
41	C	SOLID WOOD DOOR W/ VISION PANEL	1	7'-0"	3'-0"	0'-2"		
42	D	SOLID WOOD DOOR	1	7'-0"	3'-0"	0'-2"		
43	D	SOLID WOOD DOOR	1	7'-0"	3'-0"	0'-2"		
44	D	SOLID WOOD DOOR	1	7'-0"	3'-0"	0'-2"		
45	D	SOLID WOOD DOOR	1	7'-0"	3'-0"	0'-2"		
46	C	SOLID WOOD DOOR W/ VISION PANEL	1	7'-0"	3'-0"	0'-2"		

**CONSTRUCTION NOTES**

- I. COORDINATE ALL WORK WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- II. CONTRACTOR AND SUB-CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS, LOCATIONS, AND PROJECT REQUIREMENTS PRIOR TO SUBMITTING A BID.
- III. CONTRACTOR AND SUB-CONTRACTORS SHALL FIELD VERIFY DIMENSIONS, AND FAMILIARIZE THEMSELVES WITH PROJECT REQUIREMENTS PRIOR TO COMMENCING WITH THE WORK. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO ARCHITECT.
- IV. WORK SHALL INCLUDE ALL REQUIRED PERMITS, LABOR, MATERIALS, AND EQUIPMENT TO COMPLETE ALL WORK INDICATED ON DRAWINGS AND AS NECESSARY FOR A COMPLETE PROJECT.
- V. ALL PAINTING SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ADJACENT FINISHES AND CLEANUP.
- VI. CONTRACTOR IS RESPONSIBLE FOR FINAL CLEANUP OF WORK AREA AND ALL EXPOSED BUILDING SURFACES AT SUBSTANTIAL COMPLETION.
- VII. ALL TRASH AND TOOLS SHALL BE REMOVED FROM PREMISES EACH DAY AND THE AREA LEFT CLEAN WHENEVER UNATTENDED. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP. COORDINATE WITH OWNER IF SECURE STORAGE IS NEEDED ONSITE.
- VIII. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO FINISHED SURFACES, EQUIPMENT, FURNITURE, EXISTING MATERIALS OR FINISHES, CAUSED AS A RESULT OF HIS WORK. REPAIR OR REPLACE DAMAGED ITEMS AS DIRECTED BY ARCHITECT.
- IX. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.



**Designer:**  
**B.E. Designs, LLC.**  
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 Phoenix, AZ 85054  
 623-692-4808

**Owner:**  
**Helen Bouchard-Bujak**  
 4338 W. Thomas Rd. Suite 173  
 Phoenix, AZ 85301  
 623-341-2825

No.	Description	Date



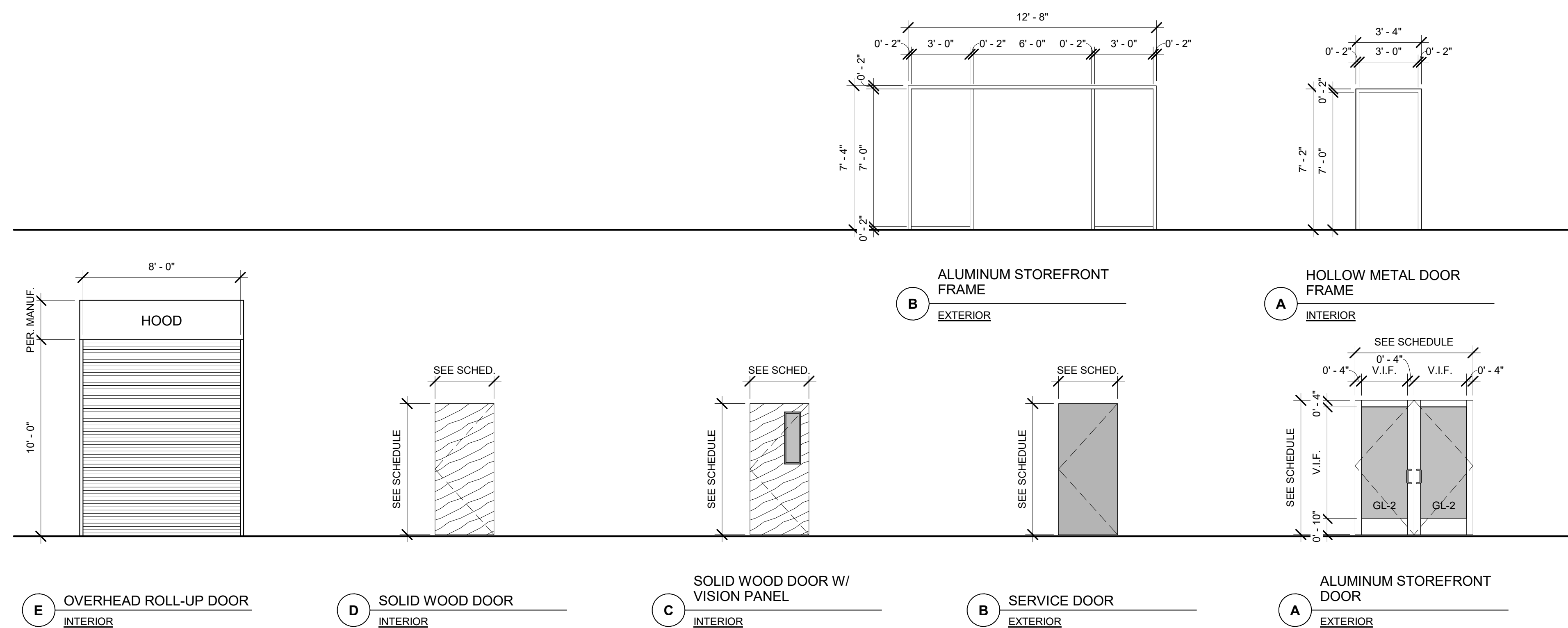
**WEST VALLEY OB-GYN**  
 4338 W. Thomas Rd.  
 Suite #173  
 Phoenix, AZ 85301

Project Number	21066
Date	5/1/23
Drawn By	BJE
Checked By	BJE

**DOOR SCHEDULE AND ELEVATIONS**

**A8.0**

Scale 1/4" = 1'-0"



FOR CITY PURPOSES



**CONSTRUCTION NOTES**

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- IX. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.

WINDOW SCHEDULE						
Mark	WINDOW TYPE	TYPE	QUANTITY	WIDTH	HEIGHT	COMMENTS
1	A	ALUMINUM STOREFRONT WINDOW	1	3' - 0"	7' - 0"	
2	A	ALUMINUM STOREFRONT WINDOW	1	3' - 0"	7' - 0"	
3	A	ALUMINUM STOREFRONT WINDOW	1	3' - 0"	7' - 0"	
4	A	ALUMINUM STOREFRONT WINDOW	1	3' - 0"	7' - 0"	
5	A	ALUMINUM STOREFRONT WINDOW	1	3' - 0"	7' - 0"	
6	A	ALUMINUM STOREFRONT WINDOW	1	3' - 0"	7' - 0"	
7	A	ALUMINUM STOREFRONT WINDOW	1	3' - 0"	7' - 0"	
8	A	ALUMINUM STOREFRONT WINDOW	1	3' - 0"	7' - 0"	
9	A	ALUMINUM STOREFRONT WINDOW	1	3' - 0"	7' - 0"	
10	D	PASS-THROUGH WINDOW	1	1' - 4"	1' - 4"	
11	B	OPERABLE SLIDING WINDOW	1	4' - 0"	4' - 0"	
12	B	OPERABLE SLIDING WINDOW	1	4' - 0"	4' - 0"	
13	B	OPERABLE SLIDING WINDOW	1	4' - 0"	4' - 0"	
14	C	FIXED WINDOW	1	2' - 0"	4' - 0"	

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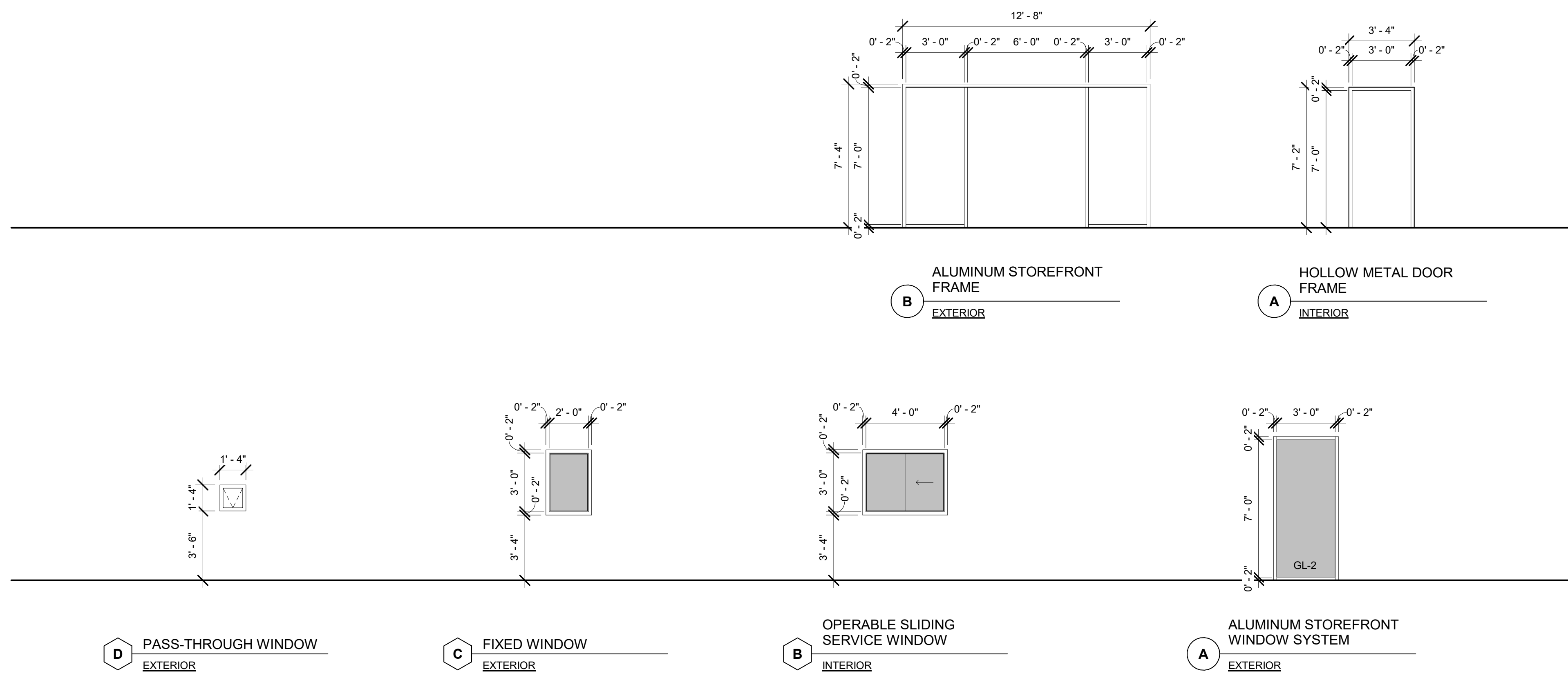
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**WINDOW SCHEDULE AND ELEVATIONS**

**A8.1**

Scale 1/4" = 1'-0"

FOR CITY PURPOSES





**GENERAL ELECTRICAL NOTES: (APPLICABLE TO ALL SHEETS)**

- A. FURNISH AND INSTALL A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
- B. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOOK THROUGH ALL DRAWINGS ASSOCIATED WITH THIS PROJECT. WORK ASSOCIATED WITH THE ELECTRICAL CONTRACTOR'S TRADE MAY BE SHOWN ON OTHER DRAWINGS. ANY ADDITIONAL COSTS RESULTING FROM THE FAILURE TO INCLUDE THESE ITEMS SHOWN ON OTHER DRAWINGS WILL BE INCURRED BY THE CONTRACTOR.
- C. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VISIT EACH SITE TO FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS PRIOR TO BIDDING THIS PROJECT. NO ALLOWANCES WILL BE MADE FOR EXISTING CONDITIONS OR CONTRACTORS FAILURE TO ACCOMMODATE EXISTING CONDITIONS ON HIS BID.
- D. ALL WORK SHALL CONFORM WITH FEDERAL, STATE, AND LOCAL CODES, RULES, AND REGULATIONS. ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE SYSTEMS SHALL BE INSTALLED COMPLETE AND FULLY OPERATIVE UNLESS OTHERWISE INDICATED.
- E. CONTRACTOR SHALL SECURE AND PAY ALL REQUIRED PERMITS, FEES, INSPECTIONS AND TESTS UNLESS OTHERWISE INDICATED.
- F. THE CONTRACTOR SHALL NOT SCALE THE CONTRACT DOCUMENTS. THE CONTRACT DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND DO NOT COMPLETELY DEPICT ALL EXISTING CONDITIONS. IN THE AREA.
- G. THESE DRAWINGS ARE BASED UPON RECORD DOCUMENTS, SITE OBSERVATIONS AND ORIGINAL DRAWINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER IN WRITING OF ANY APPARENT CONFLICT OR INCONSISTENCY IN THE DRAWINGS, SPECIFICATIONS OR DESIGN PRIOR TO HIS BID. OTHERWISE THE CONTRACTOR ACCEPTS RESPONSIBILITY TO CORRECT (AT HIS COST) ANY SUCH ITEMS TO MEET THE DESIGN INTENT AS INTERPRETED BY THE ENGINEER.
- H. WORK ASSOCIATED WITH THE ELECTRICAL CONTRACTOR'S TRADE MAY BE SHOWN ON OTHER DRAWINGS. ANY ADDITIONAL COSTS RESULTING FROM THE FAILURE TO INCLUDE THESE ITEMS SHOWN ON OTHER DRAWINGS WILL BE INCURRED BY THE CONTRACTOR.
- I. ANY VARIANCE OR EXCEPTIONS TO THE DRAWINGS AND SPECIFICATIONS MUST BE REQUESTED AND APPROVED IN WRITING BY THE ENGINEER. WHERE UNAUTHORIZED CHANGES ARE FOUND, THE CONTRACTOR SHALL REMOVE THE INSTALLED WORK AND INSTALL IT AS SHOWN ON THE DRAWINGS AT NO ADDITIONAL COST TO THE CLIENT. COSTS SHALL INCLUDE ANY CUTTING, PATCHING, PAINTING AND REPAIR COSTS TO INSTALLED CEILINGS, WALLS ETC. AS REQUIRED FOR CORRECTING THE DEFICIENCY.
- J. THE CONTRACTOR SHALL COORDINATE AND PROVIDE INFORMATION AS REQUIRED TO THE SERVING UTILITIES WITHIN (2) WEEKS OF AWARD OF CONTRACT IN ORDER TO PROVIDE THE SERVICE(S) REQUIRED AND MEET UTILITY REQUIREMENTS. VERIFY ALL TRENCH ROUTING, SERVICE LOCATIONS, ETC. WITH SERVING UTILITY COMPANY DESIGN CONSTRUCTION DRAWINGS AND SPECIFICATIONS PRIOR TO COMMENCING REQUIRED WORK.
- K. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER, ARCHITECT, AND ENGINEER ANY REQUIRED SHUT-DOWNS OR TIE-INS RELATING TO THESE SYSTEMS. REQUESTS FOR SHUTDOWNS SHALL BE SUBMITTED IN WRITING AT LEAST ONE WEEK IN ADVANCE FOR APPROVAL BY THE OWNER. CONTRACTOR SHALL NOT PROCEED UNTIL WRITTEN AUTHORIZATION IS OBTAINED FROM THE OWNER.
- L. AFTER COMPLETION OF THE INSTALLATION, THE ENTIRE ELECTRICAL SYSTEM SHALL BE THOROUGHLY CLEANED. REMOVE ALL FOREIGN MATERIAL, DUST, PAINT, OIL, GREASE, UNNEEDED LABELS AND STICKERS FROM EQUIPMENT. REMOVE ALL DEBRIS ACCUMULATED DURING CONSTRUCTION.
- M. CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW LAY-IN FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO INSTALLATION OF FIXTURES.
- N. ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH ADJACENT SURFACES.
- O. PROVIDE BLANK METAL COVERPLATE OVER ALL UNUSED BOXES. PAINT COVERPLATE TO MATCH ADJACENT SURFACES.
- P. OUTLET MOUNTING HEIGHTS INDICATED ON THE DRAWINGS ARE APPROXIMATE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OTHER TRADES FOR EXACT HEIGHT REQUIRED. THIS REQUIREMENT ALSO APPLIES TO SWITCHES, TELEPHONE OUTLETS, DATA OUTLETS, HVAC SENSORS, ETC.. ANY DEVICE THAT HAS TO BE RELOCATED DUE TO CONTRACTOR'S FAILURE TO COORDINATE LOCATION WITH COUNTERTOPS, CHALKBOARDS, BACKBOARDS, ETC. WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
- Q. THE ELECTRICAL CONTRACTOR SHALL, PRIOR TO ROUGH-IN, VERIFY ALL HVAC AMPERAGES, PHASES AND VOLTAGES AGAINST PLAN REQUIREMENTS AND NOTIFY ENGINEER/ARCHITECT OF ANY DISCREPANCIES. FAILURE TO VERIFY AND NOTIFY ENGINEER/ARCHITECT PRIOR TO ROUGH-IN SHALL RESULT IN THE ELECTRICAL CONTRACTOR ASSUMING RESPONSIBILITY FOR DESIGN AND INSTALLATION REQUIREMENTS.
- R. THE ELECTRICAL CONTRACTOR SHALL INSURE FINAL COORDINATION OF THE MANUFACTURERS RECOMMENDED FUSE SIZES FOR THE INSTALLED MECHANICAL EQUIPMENT WITH THE SIZE DISCONNECT PRIOR TO OR DURING ROUGH-IN. ADVISE ENGINEER IF CHANGES IN THE FINAL SELECTION OF MECHANICAL EQUIPMENT HAVE IMPACTED DISCONNECT SWITCH, BREAKER OR CONDUCTOR SIZES.
- S. CONTRACTOR SHALL SAW CUT AND PATCH ASPHALT, CONCRETE OR OTHER MATERIAL ENCOUNTERED AS REQUIRED TO INSTALL NEW UNDERGROUND CONDUITS. REFER TO ARCHITECTURAL SPECIFICATIONS FOR PATCHING REQUIREMENTS. CONTRACTOR SHALL SAW CUT AND PATCH EXISTING WALLS OR OTHER MATERIAL ENCOUNTERED AS REQUIRED TO INSTALL NEW OUTLETS, SWITCHES, CONDUIT AND MISCELLANEOUS DEVICES. CONTRACTOR SHALL RESTORE WALL TO ITS ORIGINAL CONDITION AFTER INSTALLATION OF NEW OUTLETS, SWITCHES, CONDUIT AND MISCELLANEOUS DEVICES HAVE BEEN INSTALLED.
- V. SUBMITTALS SHOWING PROPOSED ALTERNATE FIXTURES MUST BE "LIKE FOR LIKE" SUBSTITUTIONS. "VALUE ENGINEERED" FIXTURE SUBMITTALS WILL NOT BE REVIEWED BY THE ENGINEER. THE CONTRACTOR AND VENDOR(S) SHALL ASSUME RESPONSIBILITY AND LIABILITY FOR ALL "VALUE ENGINEERED" FIXTURES INSTALLED ON THIS PROJECT.
- X. DIRECTORIES IN EXISTING PANELS AFFECTED BY WORK UNDER THIS PROJECT SHALL BE REVISED TO REFLECT CHANGES. BREAKERS SERVING LOADS THAT ARE REMOVED SHALL BECOME SPARES UNLESS INDICATED OTHERWISE. PROVIDE NEW TYPE WRITTEN DIRECTORY IF EXISTING PANELBOARD IS MISSING DIRECTORY.
- Y. ALL CONDUITS TO AND FROM ROOF MOUNTED HVAC EQUIPMENT SHALL BE ROUTE INSIDE OF HVAC EQUIPMENT CURB WHERE APPLICABLE. NO CONDUITS PERMITTED TO RUN EXPOSED ACROSS ROOF DECK UNLESS WRITTEN APPROVAL IS GIVEN BY THE ENGINEER.
- Z. NO CONDUITS SHALL BE FASTENED DIRECTLY TO ROOF MEMBRANE.
- AA. WHEN CONDUCTOR OR CONDUIT SIZE IS INDICATED FOR BRANCH CIRCUIT HOMERUN, THE CONDUCTOR AND CONDUIT SIZE INDICATED SHALL BE USED FOR THE COMPLETE CIRCUIT.
- BB. REFER TO THE APPROPRIATE DRAWINGS (INCLUDING ARCHITECTURAL DRAWINGS) FOR THE EXACT LOCATION OF EQUIPMENT INSTALLED UNDER OTHER DIVISIONS OF THE DOCUMENTS WHICH REQUIRE ELECTRICAL SERVICE.
- CC. CAPITAL LETTER BESIDE LIGHTING SYMBOL INDICATES FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE SELECTION.
- DD. EQUIPMENT GROUNDING CONDUCTORS ARE TO BE INCLUDED IN ALL RACEWAYS AND CABLES.
- EE. ARC FLASH WARNING LABELS SHALL BE FIELD APPLIED TO ALL ELECTRICAL EQUIPMENT PER NATIONAL ELECTRICAL CODE ARTICLE 110.16
- FF. IN BUILDINGS WITH MULTIPLE SERVICES, THE CONTRACTOR SHALL PROVIDE A PLAQUE AT EACH SERVICE EQUIPMENT LOCATION DENOTING ALL OTHER SERVICES IN THE BUILDING AND THE AREA SERVED BY EACH.
- GG. ANY CABLE ROUTED TO A WALL SWITCH CONTROLLING LIGHTING SHALL CONTAIN A GROUNDED CONDUCTOR (NEUTRAL) IN ADDITION TO AN EQUIPMENT GROUNDING CONDUCTOR. EXCEPTION: SWITCHES IN ROOMS WITH ACCESSIBLE CEILINGS GIVING ACCESS TO OPEN WALL CAVITIES.
- HH. WHERE CIRCUIT BREAKERS OR FUSES ARE SERIES COMBINATION RATED, THE ENCLOSURE FOR THE OVERCURRENT DEVICES SHALL BE CLEARLY AND LEGIBLY MARKED IN THE FIELD TO INDICATE THE EQUIPMENT HAS BEEN APPLIED WITH A SERIES COMBINATION RATING. THE MARKING SHALL BE READILY VISIBLE AND STATE THE FOLLOWING: CAUTION - SERIES COMBINATION SYSTEM RATED \_\_\_ AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED.
- KK. ALL MULTIWIRED BRANCH CIRCUITS SHALL BE INSTALLED IN ACCORDANCE WITH ADOPTED ELECTRICAL CODES.
- LL. ELECTRICAL INSTALLATION SHALL COMPLY WITH THE ADOPTED CODES AND ADA/ADAAG.

**INTERIOR LIGHTING FIXTURE SCHEDULE - EQUAL ALTERNATES ARE ACCEPTABLE**

TYPE	DESCRIPTION	MANUFACTURER CATALOG NO.	LAMPS	NOTES
A	2' X 4', LENSED, RECESSED LED TROFFER, WITH SHALLOW HOUSING, SPECIFICATION GRADE, GRID TYPE.	LITHONIA: 2RTL4-48L-EZ1-LP835	LED COLOR TEMP: 3500K LUMENS: 4845 INPUT WATTS: 49W	AE INDICATES PROVIDE WITH 90 MIN EM BATTERY
AF	2' X 4', LENSED, RECESSED LED TROFFER, WITH SHALLOW HOUSING, SPECIFICATION GRADE, FLANGED TYPE.	LITHONIA: 2RTL4-48L-EZ1-LP835-DGA24	LED COLOR TEMP: 3500K LUMENS: 4845 INPUT WATTS: 49W	AFF INDICATED PROVIDE WITH 90 MIN EM BATTERY
B	LED OPEN DOWNLIGHT ARCHITECTURAL GRADE, 6" APERTURE, CLEAR TRIM	LITHONIA: LDN6-35/30-L06AR-LD-MVOLT-EZ1	LED COLOR TEMP: 3500K LUMENS: 3033.9 INPUT WATTS: 39W	BE INDICATES PROVIDE WITH 90 MIN EM BATTERY
C	SUSPENDED LED FIXTURE	LITHONIA: IBG-15000LM-HEF-AFL-WD-MVOLT-GZ10-35K-80CRI	LED COLOR TEMP: 3500K LUMENS: 14990 INPUT WATTS: 85W	CE INDICATES PROVIDE WITH 90 MIN EM BATTERY
ES	LED EXIT SIGN WITH POLYCARBONATE HOUSING, RED LETTERS.	LITHONIA: LQM-S-W-3-R EM	LED INPUT WATTS: 1W	PROVIDE WITH 90 MIN EM BATTERY

**LIGHTING CONTROL SENSORS**

ALL SENSORS SHALL BE ADJUSTABLE BETWEEN OCCUPANCY AND VACANCY TYPE SENSORS

- ⊞ WALL MOUNTED SENSOR (DUAL TECHNOLOGY, LINE VOLTAGE)
- ⊞2P WALL MOUNTED SENSOR (DUAL TECHNOLOGY, LINE VOLTAGE, 2-POLE) FOR CONTROL OF RRM LIGHTS AND EF.
- ⊞ CEILING SENSOR (STANDARD RANGE, 360°, LOW VOLTAGE, DUAL TECHNOLOGY)
- ⊞2P CEILING SENSOR (STANDARD RANGE, 360°, LOW VOLTAGE, DUAL TECHNOLOGY, 2-POLE) FOR CONTROL OF RRM LIGHTS & EF
- ⊞ WALL MOUNTED SENSOR (DUAL TECHNOLOGY, LINE VOLTAGE) PROVIDE WITH DIMMING FUNCTION FOR LED LIGHTING
- ⊞ CEILING SENSOR (STANDARD RANGE, 360°, LOW VOLTAGE (COMBINATION ON/OFF SENSOR AND PHOTOCELL/DAYLIGHTING/DIMMING))
- ⊞ WALL DIMMER SWITCH (LISTED FOR LED LIGHTING)

**LIGHTING CONTROL SENSOR NOTES**

1. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
2. ULTRASONIC CEILING MOUNT SENSORS SHOULD BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
3. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR NON-ADAPTIVE PRODUCTS. FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
4. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS:
  - 4.1. ONE POWER PACK IS REQUIRED FOR EACH CONTROLLED CIRCUIT.
  - 4.2. EACH POWER PACK CAN SUPPLY UP TO 150MA. REFER TO INSTALLATION GUIDE FOR MAXIMUM NUMBER OF SENSORS CONNECTED TO POWER PACK.
  - 4.3. IF MULTIPLE CIRCUITS ARE TO BE CONTROLLED BY A SINGLE SENSOR, AUXILIARY RELAYS MAY BE USED IN CONJUNCTION WITH A POWER PACK.
5. CEILING MOUNTED SENSORS LOCATED OVER DOORWAYS SHOULD BE PLACED ONE (1) FOOT INSIDE THRESHOLD.

ALL SENSORS SHALL BE FIELD TESTED AND THE SENSITIVITY SHALL BE ADJUSTED FOR PROPER OPERATION.

ALL TIME DELAYS SHALL BE SET TO 20 MINUTES OR AS REQUIRED BY LOCAL AHJ AND ADOPTED CODES.

**EMERGENCY/EXIT LIGHTING**

SYMBOL	DESCRIPTION
⊞	CEILING MOUNTED EXIT FIXTURE AND OUTLET WITH DIRECTIONAL INDICATOR. TYPE AS INDICATED IN FIXTURE SCHEDULE. SOLID PORTION REPRESENTS ILLUMINATED SIDE.
⊞	WALL MOUNTED EXIT LIGHT FIXTURE AND OUTLET WITH DIRECTIONAL INDICATOR. TYPE AS INDICATED IN FIXTURE SCHEDULE. SOLID PORTION REPRESENTS ILLUMINATED SIDE.
⊞	WALL MOUNTED COMBO EXIT/EMERGENCY LIGHT FIXTURE AND OUTLET WITH DIRECTIONAL INDICATOR. TYPE AS INDICATED IN FIXTURE SCHEDULE. SOLID PORTION REPRESENTS ILLUMINATED SIDE.
⊞	SELF-CONTAINED TWO-HEAD EMERGENCY BATTERY PACK FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.

**SWITCHES**

SYMBOL	DESCRIPTION																										
S <sub>XX</sub>	SINGLE POLE WALL SWITCH. FLUSH MOUNTED UP 44" TO BOTTOM OF BOX UNLESS OTHERWISE INDICATED TYPE AS DESIGNATED BELOW																										
	<table border="1"> <thead> <tr> <th>DESIGNATION</th> <th>SYSTEM</th> </tr> </thead> <tbody> <tr><td>2</td><td>DOUBLE POLE-SINGLE THROW</td></tr> <tr><td>3</td><td>THREE WAY</td></tr> <tr><td>4</td><td>FOUR WAY</td></tr> <tr><td>EC</td><td>EVAPORATIVE COOLER</td></tr> <tr><td>EXP</td><td>EXPLOSION PROOF</td></tr> <tr><td>F</td><td>FAN SWITCH</td></tr> <tr><td>K</td><td>KEYED</td></tr> <tr><td>L</td><td>LIMIT</td></tr> <tr><td>LV</td><td>LOW VOLTAGE</td></tr> <tr><td>M</td><td>MOTOR RATED (i.e. HP RATED)</td></tr> <tr><td>P</td><td>PILOT</td></tr> <tr><td>WP</td><td>WEATHERPROOF</td></tr> </tbody> </table>	DESIGNATION	SYSTEM	2	DOUBLE POLE-SINGLE THROW	3	THREE WAY	4	FOUR WAY	EC	EVAPORATIVE COOLER	EXP	EXPLOSION PROOF	F	FAN SWITCH	K	KEYED	L	LIMIT	LV	LOW VOLTAGE	M	MOTOR RATED (i.e. HP RATED)	P	PILOT	WP	WEATHERPROOF
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**POWER**

SYMBOL	DESCRIPTION												
⊞ <sub>XX</sub>	DUPLEX CONVENIENCE OUTLET. UP 18" OR AS INDICATED. TYPE AS DESIGNATED BELOW.												
	<table border="1"> <thead> <tr> <th>DESIGNATION</th> <th>SYSTEM</th> </tr> </thead> <tbody> <tr><td>C</td><td>OCCUPANCY CONTROLLED FOR TITLE 24</td></tr> <tr><td>TR</td><td>TAMPER RESISTANT</td></tr> <tr><td>WP</td><td>WEATHERPROOF</td></tr> <tr><td>EXP</td><td>EXPLOSION PROOF</td></tr> <tr><td>D</td><td>DEDICATED 20A, 120V CIRCUIT</td></tr> </tbody> </table>	DESIGNATION	SYSTEM	C	OCCUPANCY CONTROLLED FOR TITLE 24	TR	TAMPER RESISTANT	WP	WEATHERPROOF	EXP	EXPLOSION PROOF	D	DEDICATED 20A, 120V CIRCUIT
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⊞	GFCI DUPLEX OUTLET, UP 18" OR AS INDICATED.												
⊞	GFCI DUPLEX OUTLET, UP 44" OR AS INDICATED.												
⊞	DOUBLE DUPLEX OUTLET, UP 18" OR AS INDICATED.												
⊞	OUTLET MOUNTED HORIZONTALLY, 6" ABOVE COUNTER OR TOP OF BACKSPASH.												
⊞	ROOF MOUNTED 20A WP GFCI SERVICE OUTLET PER ARTICLE 210-63.												
⊞	250 VOLT RECEPTACLE UP 24" OR AS INDICATED. AMPERAGE AS NOTED ON DRAWINGS.												
⊞	SPECIAL RECEPTACLE UP 24" OR AS INDICATED.												
⊞	20A 125V SIMPLEX OUTLET MOUNTED 18" A.F.F. UNLESS NOTED OTHERWISE.												
⊞	FLUSH FLOOR 2-GANG RECTANGULAR OUTLET BOX WITH 4-PLEX RECEPTACLE FOR POWER AND COVER FOR DATA/TELEPHONE. VERIFY EXACT LOCATION IN FIELD WITH ARCHITECT.												

**BOXES**

SYMBOL	DESCRIPTION
⊞	JUNCTION BOX, WALL OR CEILING MOUNTED.
⊞	JUNCTION BOX FLUSH IN WALL. HEIGHT AS INDICATED FOR CONNECTION TO EQUIPMENT.

**VOLTAGE DROP**

For 3% maximum voltage drop on 20A and 30A single phase home-run circuits, utilize the following table. L is length of home run.

Wire Gauge	20A 120V 1-phase	20A 208V 1-phase	20A 277V 1-phase	20A 480V 1-phase	30A 120V 1-phase	30A 208V 1-phase	30A 277V 1-phase	30A 480V 1-phase
#12cu.	L<70'	L<120'	L<150'	L<250'				
#10cu.	70'<L<115'	120'<L<200'	150'<L<250'	250'<L<450'	L<75'	L<125'	L<150'	L<200'
#8cu.	115'<L<175'	200'<L<300'	250'<L<350'	450'<L<650'	75'<L<115'	125'<L<175'	150'<L<225'	200'<L<350'
#6cu.	175'<L<275'	300'<L<400'	350'<L<500'	650'<L<950'	115'<L<175'	175'<L<250'	225'<L<325'	350'<L<525'
#4cu.	275'<L<375'	400'<L<550'	500'<L<700'	650'<L<950'	175'<L<250'	250'<L<400'	325'<L<500'	525'<L<750'



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 623-341-2825

**Contractor:**  
**Phoenix Property Group**  
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 602-374-2302

No.	Description	Date

**WEST VALLEY OB-GYN**  
 4338 W. Thomas Rd.  
 Suite #173  
 Phoenix, AZ 85301

Project Number	21066
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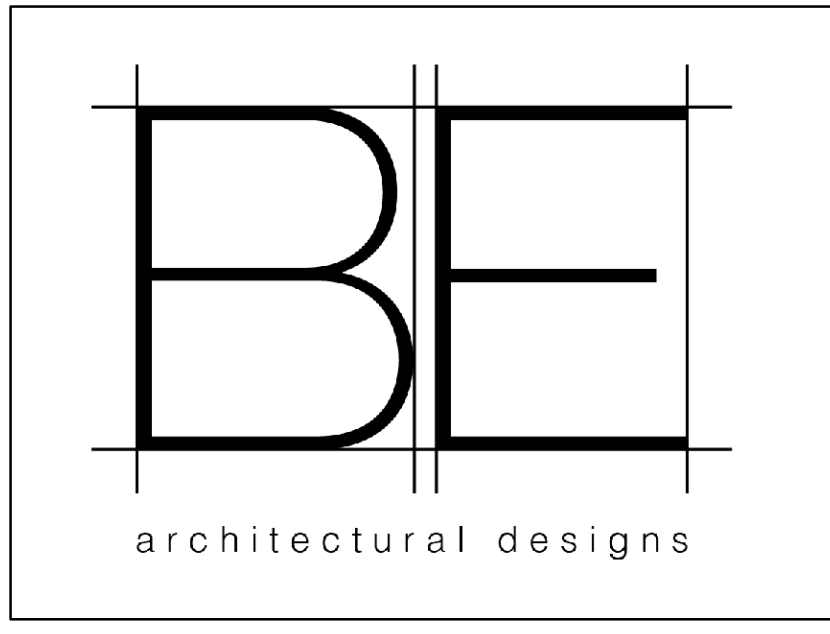
**GENERAL NOTES,  
 SYMBOLS**

**E0.1**

Scale As indicated

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 602-418-5242  
**ELECTRICAL ENGINEER**  
 DAVE WATSON, PE  
 480-789-9260  
**PROJECT: 2023-3**

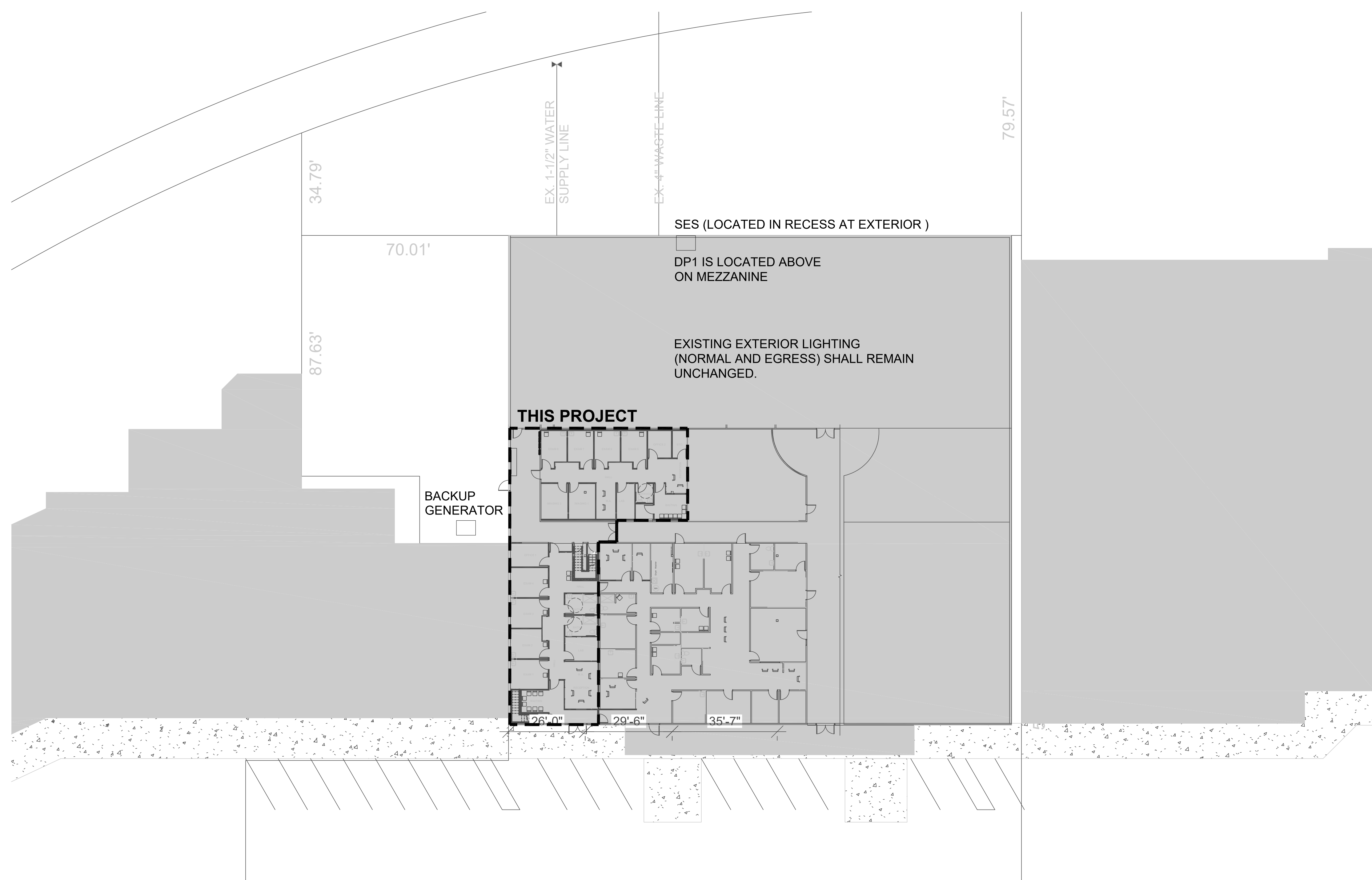




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① OVERALL BUILDING AND SITE PLAN  
1" = 20'-0"

No.	Description	Date

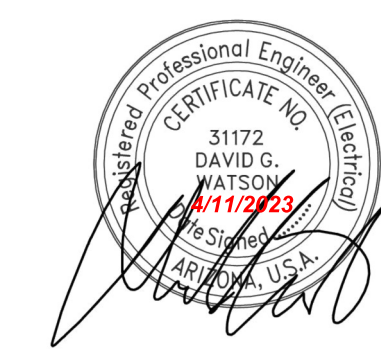
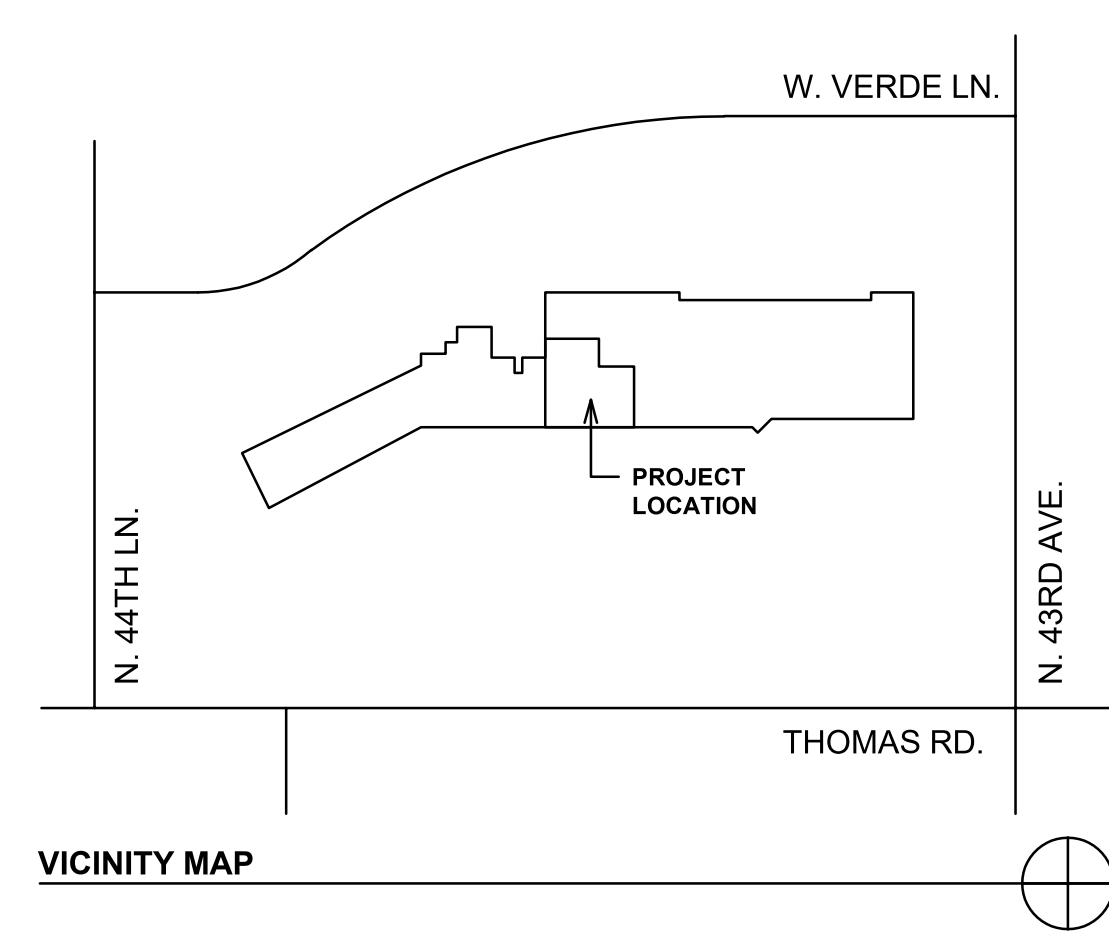
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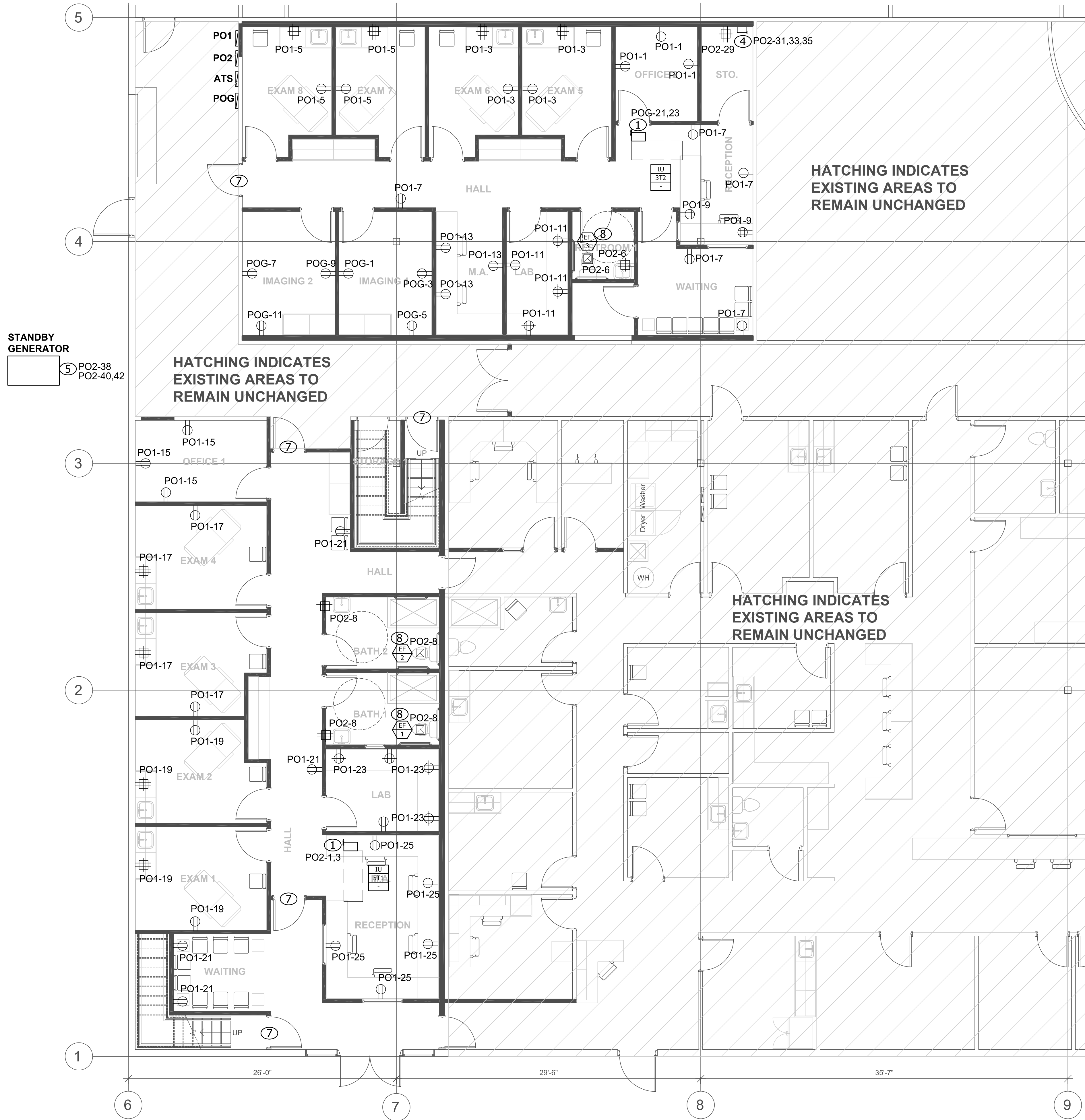
OVERALL BUILDING AND SITE PLAN

E1.0

Scale As indicated



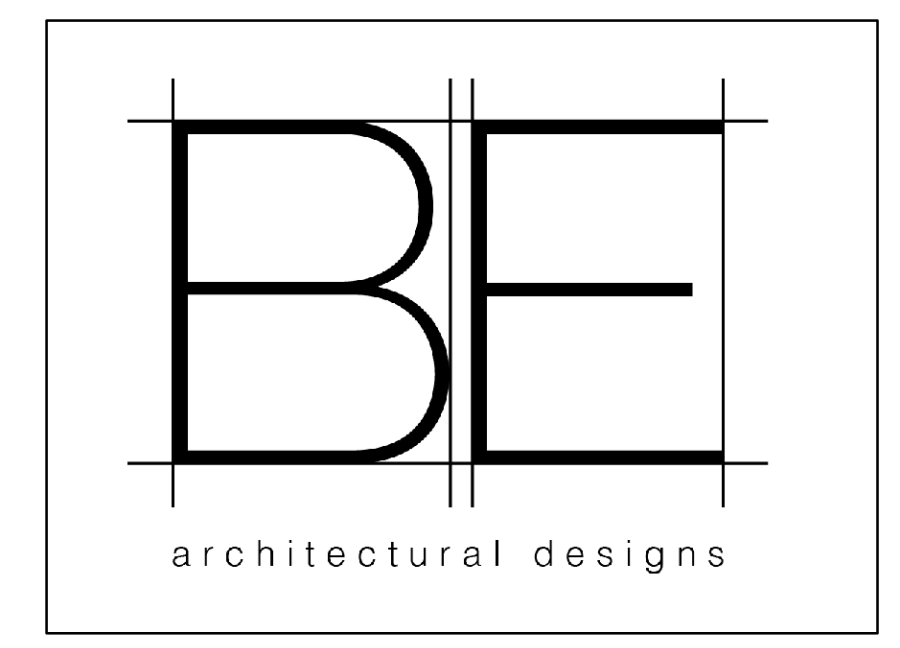
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STANDBY GENERATOR  
 ⑤ PO2-38  
 PO2-40,42

- ⑧ POWER KEYED NOTES:**  
 NOT ALL MAY BE USED THIS SHEET, SEE SHEET E3.1
1. PROVIDE 208V, 2P, 30A, NEMA 1 FUSED DISCONNECT WITH RK5 FUSES, SIZED PER MANUFACTURER'S RECOMMENDED MOCP.
  2. PROVIDE 208V, 3P, 30A, NEMA 3R FUSED DISCONNECT WITH RK5 FUSES, SIZED PER MANUFACTURER'S RECOMMENDED MOCP. PROVIDE #10 AWG IN 3/4" C.
  3. PROVIDE 208V, 3P, 60A, NEMA 3R FUSED DISCONNECT WITH RK5 FUSES, SIZED PER MANUFACTURER'S RECOMMENDED MOCP. PROVIDE #8 AWG IN 3/4" C.
  4. PROVIDE 208V, 3P, 60A, NEMA 3R NON-FUSED DISCONNECT SWITCH FOR CONNECTION OF WATER HEATER. PROVIDE #6 AWG IN 1" C.
  5. PROVIDE CONNECTION TO GENERATOR CHARGER AND HEATER. PROVIDE #8 AWG IN 1" C. COORDINATE CONNECTIONS WITH MANUFACTURER.
  6. PROVIDE WP, GFCI RECEPTACLE AT ROOF WITHIN 25' OF HVAC EQUIPMENT.
  7. PROVIDE 120V CONNECTION FOR SECURITY HARDWARE CONNECTIONS. CONNECT TO CIRCUIT 'PO1'-16
  8. EXHAUST FAN SHALL BE CONNECTED TO RESTROOM OCCUPANCY SENSOR FOR CONTROL, SEE SHEET E3.1.

- MEDICAL NOTES**  
 (APPLIES TO EXAM ROOMS AND PATIENT CARE AREAS)
1. ALL WORK IN PATIENT CARE AREAS WILL COMPLY WITH ALL APPLICABLE PROVISIONS OF NEC ARTICLE 517.
  2. ALL WORK WILL BE IN METALLIC CONDUIT EXCEPT UNDERGROUND CONDUIT USED FOR TELE/DATA. HOSPITAL GRADE AC CABLE WILL BE ALLOWED ON THIS PROJECT. THE METAL CLAD CABLE MUST QUALIFY AS AN EQUIPMENT GROUNDING RETURN PATH PER NEC 250-118. (CABLE SHALL BE AFC CABLE SYSTEMS MODEL NUMBER HCF-90 OR EQUIVALENT)
  3. CONTRACTOR WILL PROVIDE INSULATED COPPER GROUNDING CONDUCTOR FOR RECEPTACLES AND ALL NON-CURRENT CARRYING CONDUCTIVE SURFACES OF FIXED ELECTRIC EQUIPMENT IN PATIENT CARE/EXAM AREAS PER NEC 517-13(a).
  4. CONTRACTOR WILL BOND THE EQUIPMENT GROUNDING TERMINAL BUSES OF ALL PANELBOARDS SERVING THE SAME PATIENT CARE/EXAM AREAS PER NEC 517-14. THE BONDING CONDUCTOR WILL BE 10 A.W.G. MIN. COPPER, INSULATED. RECEPTACLES IN PATIENT CARE AREAS TO BE HOSPITAL GRADE.



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**FIRST FLOOR - POWER PLAN**

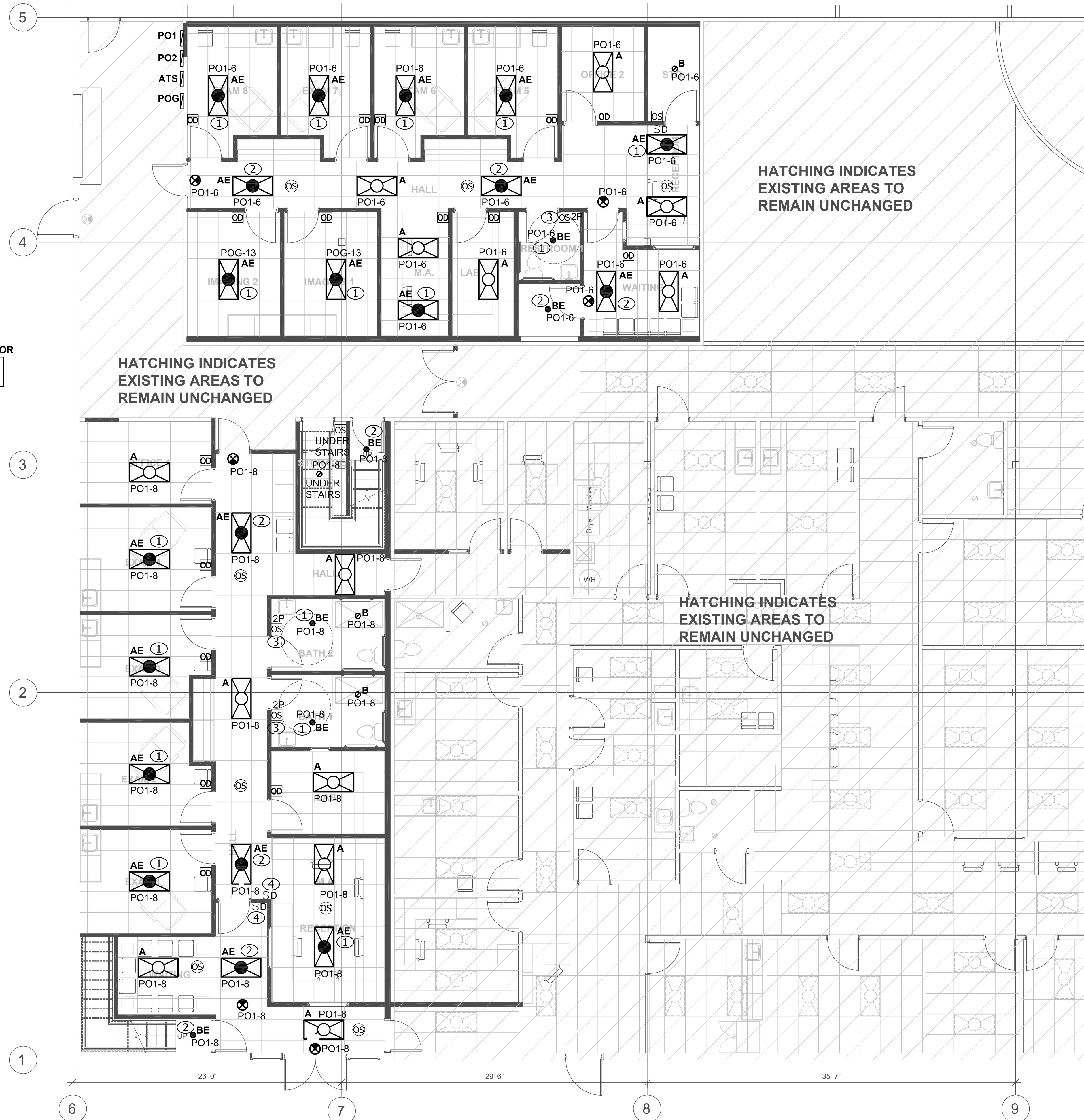
**E2.1**

Scale As indicated

① FIRST FLOOR POWER PLAN  
 3/16"=1'-0"

CONSULTANT ELECTRICAL DESIGNER  
 JOHN KSELL  
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HATCHING INDICATES EXISTING AREAS TO REMAIN UNCHANGED

HATCHING INDICATES EXISTING AREAS TO REMAIN UNCHANGED

HATCHING INDICATES EXISTING AREAS TO REMAIN UNCHANGED

STANDBY GENERATOR

**GENERAL NOTES**

- A. MINIMUM LIGHTING BRANCH CIRCUITING SHALL BE #10 AWG IN 1" CONDUIT. CONDUIT AND WIRE SHALL BE INCREASED, AS REQUIRED, BASED ON VOLTAGE DROP. (MAX VOLTAGE DROP SHALL BE 3%) SEE VOLTAGE DROP TABLE, SHEET E0.1
- B. PROVIDE UNSWITCHED CONDUCTOR FOR CONNECTION OF ALL EMERGENCY LIGHTING BATTERIES.

**Ⓞ LIGHTING KEYED NOTES:**

- 1. FIXTURE TO OPERATE AS AN EMERGENCY LIGHT PER IBC 1006.4. CONTRACTOR SHALL WIRE LAMPS SO THAT THEY TURN ON AT A REDUCED LUMEN OUTPUT DURING A POWER LOSS (EMERGENCY BATTERY POWER).
- 2. FIXTURE TO OPERATE AS A NIGHT LIGHT (PER IBC 1006.1) AND AS EMERGENCY LIGHT PER IBC 1006.3 AND 1006.4 RESPECTIVELY. CONTRACTOR SHALL WIRE LAMPS SO THAT THEY ARE UNSWITCHED AND CONSTANTLY ON DURING NORMAL OPERATION (NIGHT LIGHT) AND TURN ON AT A REDUCED LUMEN OUTPUT DURING A POWER LOSS (EMERGENCY BATTERY POWER).
- 3. OCCUPANCY SENSOR TO CONTROL LIGHTING AND EXHAUST FAN WITHIN THE RESTROOM.
- 4. PROVIDE SWITCH FOR OVERRIDE CONTROL OF LIGHTS. PROVIDE 4" SQ ROUGH-IN BOX FOR NEW SWITCH. EXTEND NETWORK CABLING (AS PER MANUFACTURER) IN 3/4" FROM THE SWITCH TO THE LIGHTING RELAY PACK. (PROVIDE DIMMING FUNCTION)



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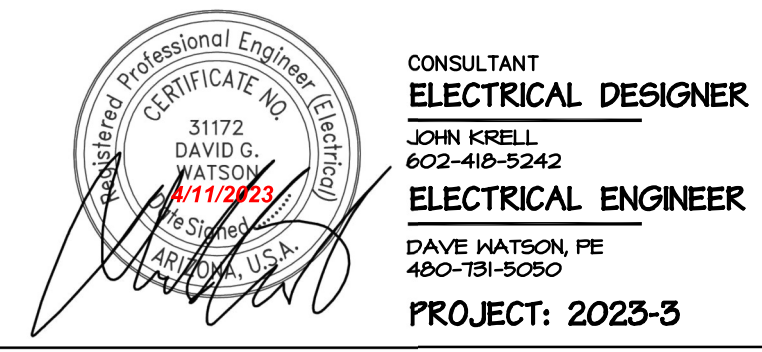
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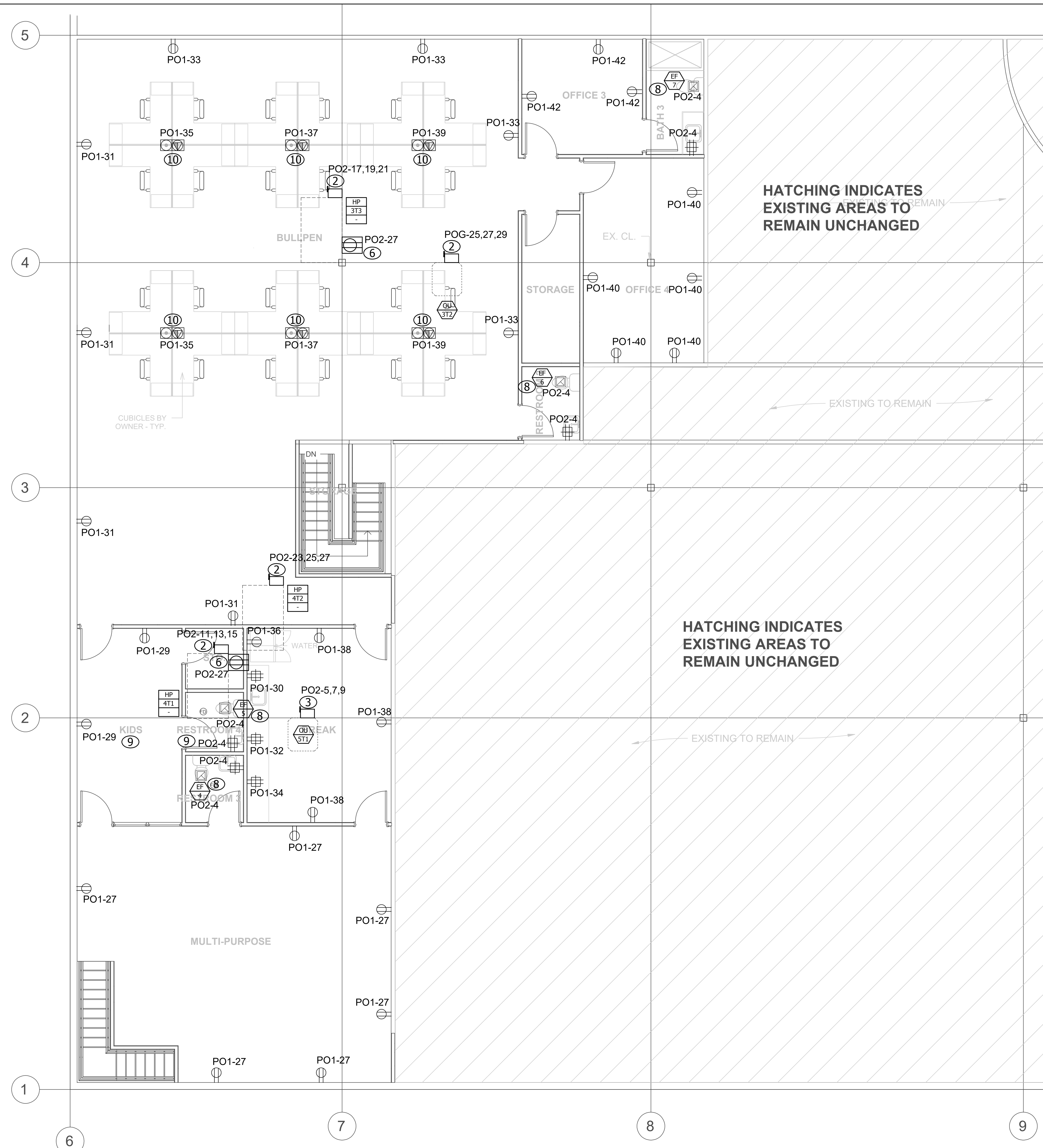
**FIRST FLOOR - LIGHTING PLAN**

**E2.2**

Scale As indicated

1 FIRST FLOOR LIGHTING PLAN  
 3/16"=1'-0"





HATCHING INDICATES EXISTING AREAS TO REMAIN UNCHANGED

HATCHING INDICATES EXISTING AREAS TO REMAIN UNCHANGED

- POWER KEYED NOTES:**  
 NOT ALL MAY BE USED THIS SHEET, SEE SHEET E2.1
1. PROVIDE 208V, 2P, 30A, NEMA 1 FUSED DISCONNECT WITH RK5 FUSES, SIZED PER MANUFACTURER'S RECOMMENDED MOCP.
  2. PROVIDE 208V, 3P, 30A, NEMA 3R FUSED DISCONNECT WITH RK5 FUSES, SIZED PER MANUFACTURER'S RECOMMENDED MOCP. PROVIDE #10 AWG IN 3/4" C.
  3. PROVIDE 208V, 3P, 60A, NEMA 3R FUSED DISCONNECT WITH RK5 FUSES, SIZED PER MANUFACTURER'S RECOMMENDED MOCP. PROVIDE #8 AWG IN 3/4" C.
  4. PROVIDE 208V, 3P, 60A, NEMA 3R NON-FUSED DISCONNECT SWITCH FOR CONNECTION OF WATER HEATER. PROVIDE #6 AWG IN 1" C.
  5. PROVIDE CONNECTION TO GENERATOR CHARGER AND HEATER. PROVIDE #8 AWG IN 1" C. COORDINATE CONNECTIONS WITH MANUFACTURER.
  6. PROVIDE WP, GFCI RECEPTACLE AT ROOF WITHIN 25' OF HVAC EQUIPMENT.
  7. PROVIDE 120V CONNECTION FOR SECURITY HARDWARE CONNECTIONS. CONNECT TO CIRCUIT 'PO1'-16
  8. EXHAUST FAN SHALL BE CONNECTED TO RESTROOM OCCUPANCY SENSOR FOR CONTROL, SEE SHEET E3.1.
  9. PROVIDE TAMPER RESISTANT DEVICES WITHIN THIS AREA.
  10. PROVIDE FLUSH FLOOR BOX WITH (1) FOURPLEX RECEPTACLE AND (1) PHONE/DATA OUTLET. PROVIDE 3/4" CONDUIT CONNECTION FOR POWER AND (1) 1" CONDUIT (WITH PULL STRING) FOR CONNECTION OF PHONE/DATA. (PLASTIC COVERS SHALL NOT BE ACCEPTABLE) COORDINATE LOCATION OF FLOOR OUTLET WITH TENANT AND ARCHITECT PRIOR TO INSTALLATION.



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**SECOND FLOOR - POWER PLAN**

**E3.1**

Scale As indicated

1 SECOND FLOOR POWER PLAN  
 3/16"=1'-0"

CONSULTANT  
**ELECTRICAL DESIGNER**  
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 602-418-5242  
**ELECTRICAL ENGINEER**  
 DAVE WATSON, PE  
 480-758-3250  
 PROJECT: 2023-3

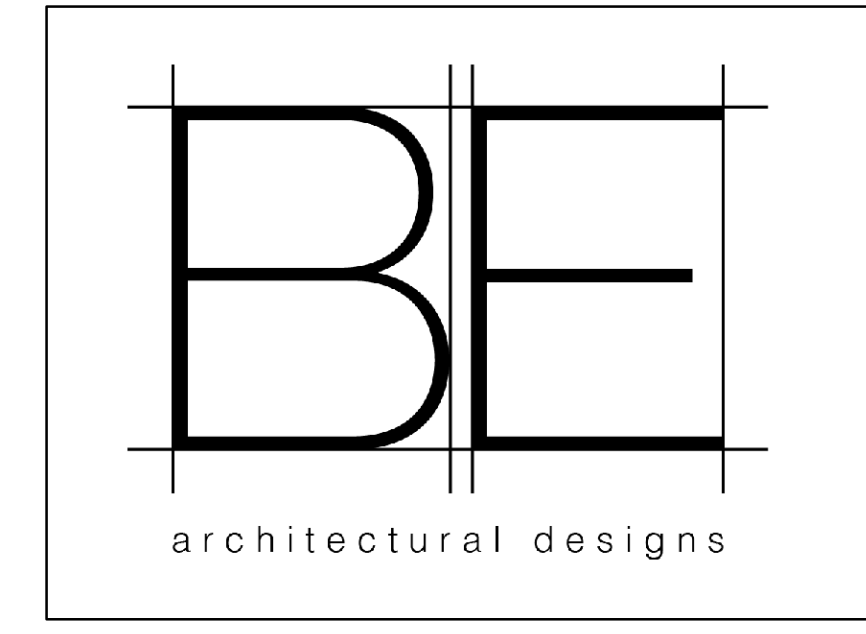


**GENERAL NOTES**

- A. MINIMUM LIGHTING BRANCH CIRCUITING SHALL BE #10 AWG IN 1" CONDUIT. CONDUIT AND WIRE SHALL BE INCREASED, AS REQUIRED, BASED ON VOLTAGE DROP. (MAX VOLTAGE DROP SHALL BE 3%) SEE VOLTAGE DROP TABLE, SHEET E0.1
- B. PROVIDE UNSWITCHED CONDUCTOR FOR CONNECTION OF ALL EMERGENCY LIGHTING BATTERIES.

**Ⓞ LIGHTING KEYED NOTES:**

- 1. FIXTURE TO OPERATE AS AN EMERGENCY LIGHT PER IBC 1006.4. CONTRACTOR SHALL WIRE LAMPS SO THAT THEY TURN ON AT A REDUCED LUMEN OUTPUT DURING A POWER LOSS (EMERGENCY BATTERY POWER).
- 2. FIXTURE TO OPERATE AS A NIGHT LIGHT (PER IBC 1006.1) AND AS EMERGENCY LIGHT PER IBC 1006.3 AND 1006.4 RESPECTIVELY. CONTRACTOR SHALL WIRE LAMPS SO THAT THEY ARE UNSWITCHED AND CONSTANTLY ON DURING NORMAL OPERATION (NIGHT LIGHT) AND TURN ON AT A REDUCED LUMEN OUTPUT DURING A POWER LOSS (EMERGENCY BATTERY POWER).
- 3. OCCUPANCY SENSOR TO CONTROL LIGHTING AND EXHAUST FAN WITHIN THE RESTROOM.
- 4. PROVIDE SWITCH FOR OVERRIDE CONTROL OF LIGHTS. PROVIDE 4" SQ ROUGH-IN BOX FOR NEW SWITCH. EXTEND NETWORK CABLEING (AS PER MANUFACTURER) IN 3/4" FROM THE SWITCH TO THE LIGHTING RELAY PACK. (PROVIDE DIMMING FUNCTION)



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**SECOND FLOOR - LIGHTING PLAN**

**E3.2**

Scale As indicated

1 SECOND FLOOR POWER PLAN  
 3/16"=1'-0"

CONSULTANT ELECTRICAL DESIGNER  
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 480-781-3250  
 PROJECT: 2023-3





ABBREVIATIONS		PIPING FLOWSTREAM ID		DUCTWORK SYMBOLS		GENERAL NOTES		2018 IECC COMPLIANCE NOTES	
AC	AIR CONDITIONING UNIT	— D —	DRAIN LINE	12x8	RECTANGULAR DUCT, WIDTH x DEPTH (INCHES)	A.	ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR SUSPENDED CEILINGS, UNLESS OTHERWISE NOTED.	A.	HUMIDIFICATION SYSTEMS HAVE NOT BEEN PROVIDED ON THIS PROJECT.
AD	ACCESS DOOR	— CD —	CONDENSATE DRAIN	12"	ROUND DUCT (INCHES)	B.	PROVIDE ACCESS PANELS OR DOORS IN UNACCESSIBLE CEILINGS AND/OR CHASES FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, COILS, FANS, CONTROLS, ETC. ACCESS DOOR RATING SHALL MATCH CLASSIFICATION OF WALL AND CEILING FIRE RATING.	B.	EACH HEATING OR COOLING SYSTEM ZONE HAS BEEN PROVIDED WITH ITS OWN TEMPERATURE CONTROL DEVICE.
AF	ABOVE FINISHED FLOOR	— SCD —	SECONDARY CONDENSATE DRAIN	12x8	OVAL DUCT (INCHES)	C.	COORDINATE THE LOCATION OF ALL DIFFUSERS, GRILLES, REGISTERS, ACCESS DOORS, ETC., WITH THE ARCHITECTURAL REFLECTED CEILING PLAN(S).	C.	THE PROGRAMMABLE THERMOSTATS SHALL BE CAPABLE OF SETTING BACK TEMPERATURE TO 55 DEGREES F DURING HEATING AND SETTING UP TO 85 DEGREES F DURING COOLING, CAPABLE OF AUTOMATICALLY SETTING BACK OR SHUTTING DOWN SYSTEMS DURING UNOCCUPIED HOURS (USING 7-DIFFERENT DAY SCHEDULES, HAVE A ACCESSIBLE MANUAL 2-HOUR OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS, HAVE A BATTERY BACK-UP CAPABLE OF MAINTAINING PROGRAMMED SETTINGS FOR AT LEAST 10 HOURS WITHOUT POWER, A SETBACK OR SHUTOFF CONTROL IS NOT REQUIRED ON THERMOSTATS THAT CONTROL SYSTEMS SERVING AREAS THAT OPERATE CONTINUOUSLY SUCH AS THE ELEVATOR EQUIPMENT ROOM AND ELECTRICAL ROOMS IF APPLICABLE.
AL	ACOUSTICAL LINING	— CWS —	CONDENSER WATER SUPPLY	12x8 W/1/4"	FLEXIBLE DUCT	D.	ALL ROUND RUNOUTS AND DRIPS TO DIFFUSERS SHALL BE THE SAME NOMINAL SIZE AS THE SCHEDULED DIFFUSER NECK SIZE.	D.	OUTDOOR AIR SUPPLY SYSTEMS WITH DESIGN AIRFLOW RATES GREATER THAN 3000 CFM AND ALL EXHAUST SYSTEMS MUST HAVE DAMPERS THAT ARE AUTOMATICALLY CLOSED WHILE EQUIPMENT IS NOT OPERATING IF APPLICABLE.
AMP	AMPERE (AMPS)	— CWR —	CONDENSER WATER RETURN		ACOUSTICAL DUCT LINING	E.	PROVIDE TURNING VANES IN ALL SQUARE ELBOWS, EXCEPT TRANSFER AIR SOUND ELBOWS.	E.	OUTSIDE VENTILATION HAS BEEN DESIGNED PER CHAPTER 4 OF THE 2018 INTERNATIONAL MECHANICAL CODE.
AP	ACCESS PANEL	— CHWS —	CHILLED WATER SUPPLY		ACOUSTICAL DUCT LINING	F.	REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND/OR SMOKE RATED WALLS AND ASSEMBLIES. PROVIDE APPROVED FIRE AND FIRE/SMOKE DAMPERS IN ALL REQUIRED PENETRATIONS FOR DUCTWORK, GRILLES, REGISTERS AND DIFFUSERS. ALL PIPE AND DUCTWORK PENETRATIONS OF FIRE, SMOKE AND FULL HEIGHT WALLS SHALL BE CALKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF UL APPROVED FIRE PROOF CALKING MATERIAL.	F.	ALL SUPPLY AND RETURN AIR DUCTS MUST BE INSULATED WITH A MINIMUM OF R-6 (2.33" MINIMUM THICKNESS DUCT WRAP OR 1-1/2" WHEN DUCT IS LINED), ALL DUCTS LOCATED OUTSIDE THE BUILDING MUST BE INSULATED WITH A MINIMUM OF R-8.
BF	BELOW FLOOR	— CHWR —	CHILLED WATER RETURN		ACOUSTICAL DUCT LINING	G.	THE CFM OF EACH DIFFUSER, REGISTER, ETC., IS INDICATED IN THE SYMBOL DESIGNATION ON THE DRAWINGS.	G.	ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK MUST BE SECURELY SEALED USING WELDMENTS, MECHANICAL FASTENERS WITH SEALS, GASKETS, OR MASTICS. MESH AND MASTIC SEALING SYSTEMS, OR TAPES, TAPES AND MASTICS MUST BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A OR UL 181B.
BHP	BRAKE HORSE POWER	— HWS —	HOT WATER SUPPLY		ACOUSTICAL DUCT LINING	H.	REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND/OR SMOKE RATED WALLS AND ASSEMBLIES. PROVIDE APPROVED FIRE AND FIRE/SMOKE DAMPERS IN ALL REQUIRED PENETRATIONS FOR DUCTWORK, GRILLES, REGISTERS AND DIFFUSERS. ALL PIPE AND DUCTWORK PENETRATIONS OF FIRE, SMOKE AND FULL HEIGHT WALLS SHALL BE CALKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF UL APPROVED FIRE PROOF CALKING MATERIAL.	H.	MECHANICAL FASTENERS AND SEALS, MASTICS, OR GASKETS MUST BE USED WHEN CONNECTING DUCTS TO FANS AND OTHER AIR DISTRIBUTION EQUIPMENT, INCLUDING MULTIPLE-ZONE TERMINAL UNITS.
BOD	BOTTOM OF DUCT	— HWR —	HOT WATER RETURN		ACOUSTICAL DUCT LINING	I.	CONTRACTOR SHALL COORDINATE ALL DUCTWORK, PIPING, PLUMBING AND FIRE PROTECTION PIPING WITH STRUCTURAL AND ELECTRICAL SYSTEMS AND SHALL PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN EQUIPMENT ACCESS AND SERVICEABILITY.	I.	OPERATOR AND MAINTENANCE DOCUMENTATION MUST BE PROVIDED TO THE OWNER THAT INCLUDES EQUIPMENT INPUT AND OUTPUT CAPACITY AND REQUIRED MAINTENANCE ACTIONS, EQUIPMENT OPERATION AND MAINTENANCE MANUALS, HVAC SYSTEM CONTROL MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD DETERMINED SET POINTS MUST BE PERMANENTLY RECORDED ON THE CONTROL DRAWINGS, AT CONTROL DEVICES, OR, FOR DIGITAL CONTROL SYSTEMS, IN PROGRAMMING COMMENTS. A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE.
BOP	BOTTOM OF PIPE	— RL —	REFRIGERANT LIQUID		ACOUSTICAL DUCT LINING	J.	CONTRACTOR SHALL FURNISH ALL NECESSARY STRUCTURES, INSERTS, SLEEVES, AND HANGING DEVICES FOR INSTALLATION OF MECHANICAL AND PLUMBING EQUIPMENT, DUCTWORK AND PIPING, ETC. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND ALL BUILDING TRADES TO AVOID CONFLICTS AND TO MAINTAIN EQUIPMENT ACCESS AND SERVICEABILITY.	J.	EACH SUPPLY AIR OUTLET OR DIFFUSER MUST HAVE ITS OWN BALANCING DEVICE. ACCEPTABLE BALANCING DEVICES INCLUDE ADJUSTABLE DAMPERS LOCATED WITHIN THE DUCTWORK AND SUPPLY AIR DIFFUSERS.
BTU	BRITISH THERMAL UNIT	— RS —	REFRIGERANT SUCTION		ACOUSTICAL DUCT LINING	K.	CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY MISCELLANEOUS ANGLES, CHANNELS, UNISTRUT, ETC., AS MAY BE REQUIRED TO ADEQUATELY SUPPORT THE MECHANICAL PIPING, DUCTWORK, AND EQUIPMENT IN A MANNER APPROVED BY THE ARCHITECT WHICH WILL NOT OVERLOAD THE BUILDING STRUCTURAL SYSTEM.		
BTUH	BTU PER HOUR	— V —	MAKE-UP WATER		ACOUSTICAL DUCT LINING	L.	CONTRACTOR SHALL PROVIDE RETURN AIR OR TRANSFER AIR OPENINGS IN FULL HEIGHT WALLS SIZED AT 500 FPM (UNLESS OTHERWISE SPECIFICALLY SHOWN ON THE DRAWINGS) TO CREATE AND/OR MAINTAIN A RETURN AIR PATH AS REQUIRED. FIRE DAMPERS AND/OR SMOKE DAMPERS SHALL BE PROVIDED IN SUCH OPENINGS WHERE REQUIRED BY CODE "H".		
BD	BACKDRAFT DAMPER		VENT		ACOUSTICAL DUCT LINING	M.	SEAL ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, DUCT WALL PENETRATIONS AND FITTING CONNECTIONS ON ALL DUCT SYSTEMS.		
C	CELSIUS				ACOUSTICAL DUCT LINING	N.	THE MECHANICAL CONTRACTOR SHALL, PRIOR TO ORDERING AND INSTALLATION, VERIFY ALL HVAC AMPERAGES, PHASES AND VOLTAGES AGAINST ELECTRICAL PLAN REQUIREMENTS AND NOTIFY ENGINEER/ARCHITECT OF ANY DISCREPANCIES. FAILURE TO VERIFY AND NOTIFY ENGINEER/ARCHITECT PRIOR TO ORDERING OR INSTALLATION SHALL RESULT IN THE MECHANICAL CONTRACTOR ASSUMING RESPONSIBILITY FOR DESIGN AND INSTALLATION REQUIREMENTS.		
CI	CAST IRON				ACOUSTICAL DUCT LINING	O.	THE MECHANICAL CONTRACTOR SHALL INSURE FINAL COORDINATION OF THE MANUFACTURER'S RECOMMENDED FUSE SIZES AND DISCONNECT FOR THE INSTALLED MECHANICAL EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION. ADVISE ENGINEER IF CHANGES IN THE FINAL SELECTION OF MECHANICAL EQUIPMENT HAVE IMPACTED DISCONNECT SWITCH, BREAKER OR CONDUCTOR SIZES.		
CFM	CUBIC FEET PER MINUTE	PIPE FITTING SYMBOLS			ACOUSTICAL DUCT LINING	CODE INFORMATION		SYMBOLS LIST NOTES	
CO	CLEANOUT	— X —	ANCHOR		ACOUSTICAL DUCT LINING	A.	2018 IBC, 2018 IMC, 2018 IECC, 2018 IPC, & CITY OF PHOENIX AMENDMENTS.	1.	SYMBOLS LISTS, NOTES, ABBREVIATIONS, ETC. ARE FOR GENERAL REFERENCE ONLY. THE PRESENCE OF SYMBOLS, NOTES, ABBREVIATIONS, ETC. DOES NOT IMPLY ITS USE ON THIS PROJECT. REFER TO DRAWINGS FOR SPECIFIC SYMBOLS, NOTES, ABBREVIATIONS, ETC. USED.
CONT.	CONTINUATION	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	B.	OUTDOOR AIR VENTILATION PROVIDED AND BASED ON 2018 IMC CHAPTER 4, SECTION 403.2 AND TABLE 403.3.		
D	DRAIN	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	C.	ALL ROOFTOP EQUIPMENT SHALL BE PERMANENTLY IDENTIFIED AS TO THE AREA SERVED WITH A RUST-PROOF METAL NAMEPLATE PER 2018 IMC.		
Db	DECIBEL	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	D.	DUCT SMOKE DETECTORS ARE NOT REQUIRED BY 2018 IMC SECTION 606 FOR SYSTEMS WITH A DESIGN CAPACITY OF 2,000 CFM OR LESS AND HAVE ENTIRELY INDEPENDENT DUCT SYSTEMS.		
DB	DRY BULB	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	E.	ACCESS TO ROOF MOUNTED EQUIPMENT WAS PROVIDED UNDER A PREVIOUS PERMIT AND COMPLIES WITH IMC.		
DRT	DRY BULB TEMPERATURE	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	F.	EQUIPMENT AND APPLIANCES SHALL BE INSTALLED AS REQUIRED BY THE TERMS OF THEIR APPROVAL, IN ACCORDANCE WITH THE CONDITIONS OF THE LISTING, THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THIS CODE. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE AT THE TIME OF INSPECTION PER IMC SECTION 304.1.		
DIAM	DIAMETER	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	2018 IBC SEISMIC NOTE		DESIGN CRITERIA	
DX	DIRECT EXPANSION	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	ALL MECHANICAL EQUIPMENT AND DISTRIBUTION SYSTEMS SHALL BE PROVIDED WITH SEISMIC RESTRAINTS FOR THE SEISMIC DESIGN CATEGORY IN WHICH THE BUILDING IS LOCATED AND IMPORTANCE FACTOR (SEE STRUCTURAL DRAWINGS AND STRUCTURAL SPECIFICATIONS FOR DETERMINATION) IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE SECTION 1631 EARTHQUAKE LOADS, ASCE 7-10 CHAPTER 13 (FORMULAS 13.3-1, 13.3-2, AND 13.3-3), AND THE 2018 INTERNATIONAL BUILDING CODE CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS. DESIGN OF SYSTEM AND ALL SUBMITTAL DATA TO INCLUDE SEISMIC CALCULATIONS CERTIFIED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF ARIZONA AND EMPLOYED BY THE SEISMIC RESTRAINT MANUFACTURER. SHOP DRAWINGS OF ALL SEISMIC RESTRAINTS SHALL BE SUBMITTED FOR APPROVAL. SEISMIC RESTRAINTS SHALL BE BY HAZON INDUSTRIES INC. OR AN APPROVED EQUAL. INSPECTION OF ALL SEISMIC RESTRAINTS SHALL BE COMPLETED AND ACCOMPANYING CERTIFICATION OF INSTALLATION SHALL BE PROVIDED BY MANUFACTURER'S APPROVED REPRESENTATIVE. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.			SUMMER DESIGN: 109°F DRY BULB, 73°F WET BULB WINTER DESIGN: 32°F DRY BULB INDOOR DESIGN: 75°F DRY BULB, 62.5°F WET BULB ALTITUDE: 1200 FT
D	DRAIN	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
Db	DECIBEL	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	ALL MECHANICAL EQUIPMENT AND DISTRIBUTION SYSTEMS SHALL BE PROVIDED WITH SEISMIC RESTRAINTS FOR THE SEISMIC DESIGN CATEGORY IN WHICH THE BUILDING IS LOCATED AND IMPORTANCE FACTOR (SEE STRUCTURAL DRAWINGS AND STRUCTURAL SPECIFICATIONS FOR DETERMINATION) IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE SECTION 1631 EARTHQUAKE LOADS, ASCE 7-10 CHAPTER 13 (FORMULAS 13.3-1, 13.3-2, AND 13.3-3), AND THE 2018 INTERNATIONAL BUILDING CODE CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS. DESIGN OF SYSTEM AND ALL SUBMITTAL DATA TO INCLUDE SEISMIC CALCULATIONS CERTIFIED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF ARIZONA AND EMPLOYED BY THE SEISMIC RESTRAINT MANUFACTURER. SHOP DRAWINGS OF ALL SEISMIC RESTRAINTS SHALL BE SUBMITTED FOR APPROVAL. SEISMIC RESTRAINTS SHALL BE BY HAZON INDUSTRIES INC. OR AN APPROVED EQUAL. INSPECTION OF ALL SEISMIC RESTRAINTS SHALL BE COMPLETED AND ACCOMPANYING CERTIFICATION OF INSTALLATION SHALL BE PROVIDED BY MANUFACTURER'S APPROVED REPRESENTATIVE. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.			AN AIR BALANCE REPORT SHOWING FRESH AIR COMPLIANCE IS REQUIRED BY THE MECHANICAL INSPECTOR FOR FINAL INSPECTION APPROVAL. VENTILATION SYSTEMS SHALL BE BALANCED BY AN APPROVED METHOD. A BALANCE REPORT SHALL VERIFY THAT THE VENTILATION SYSTEM IS CAPABLE OF SUPPLYING AIRFLOW RATES REQUIRED BY SECTION 403.3 (2018 IMC SECTION 403.3.1.5, CITY OF PHOENIX AMENDMENTS).
DB	DRY BULB	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
DRT	DRY BULB TEMPERATURE	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
DIAM	DIAMETER	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
DX	DIRECT EXPANSION	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
EFF	EFFICIENCY	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
ENT	ENTERING	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
EXH	EXHAUST	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
°F	DEGREES FAHRENHEIT	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
FB	FLAT BOTTOM	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
FCU	FLOOR CLEANOUT	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
FD	FAN COIL UNIT	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
FD	FLOOR DRAIN	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
FD	FIRE DAMPER	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
F.G.	FILTER GAUGE	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
FLEX	FLEXIBLE	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
FPM	FEET PER MINUTE	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
FPS	FEET PER SECOND	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
FS	FLOOR SINK	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
FT	FLAT TOP	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
FT	FEET	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
FSO	FIRE/SMOKE DAMPER	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
GA	GAUGE	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
GAL	GALLONS	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
GPM	GALLONS PER MINUTE	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
GPH	GALLONS PER HOUR	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
HB	HOSE BIBB	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
HD	HAND DAMPER (VOLUME DAMPER)	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
HORZ	HORIZONTAL	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
HP	HORSEPOWER	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
HR	HOUR(S)	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
IN	INCHES	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
KVA	KILOVOLT-AMPERE	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
KW	KILOWATT	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
KWH	KILOWATT HOUR	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
LBS	POUNDS	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
MAX	MAXIMUM	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
MA	MAIN AIR (CONTROLS)	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
MCC	MOTOR CONTROL CENTER	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
MIN	MINIMUM	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
N/A	NOT APPLICABLE	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
NC	NOISE CRITERIA	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
NIC	NOT IN CONTRACT	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
#, NO.	NUMBER (QUANTITY)	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
NO	NORMALLY OPEN	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
NC	NORMALLY CLOSED	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
NTS	NOT TO SCALE	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
OA	OUTSIDE AIR	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
OBD	OPPOSED BLADE DAMPER	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
PRV	PRESSURE REDUCING VALVE	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
PSI	POUNDS PER SQUARE INCH	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
PSIG	POUNDS PER SQUARE INCH GAUGE	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
PD	PRESSURE DROP	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
QTY	QUANTITY	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
QUAD	QUADRANT	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
RA	RETURN AIR	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
REQ	REQUIRED	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
RH	RELATIVE HUMIDITY	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
RM	ROOM	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
RPM	REVOLUTIONS PER MINUTE	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
SA	SUPPLY AIR	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
SCD	SMOKE CONTROL DAMPER	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
S.DPR.	SMOKE DAMPER	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
SP	STATIC PRESSURE (INCHES OF WATER)	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
SPEC	SPECIFICATION	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
SQ	SQUARE	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
SDVV	SINGLE DUCT VARIABLE VOLUME	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
ST	SOUND TRAP	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
TEMP	TEMPERATURE	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
TSTAT	THERMOSTAT	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
TYP	TOTAL PRESSURE (INCHES OF WATER)	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
UC	UNDER CUT	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
V	VOLTS	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
VAC	VOLTS, ALTERNATING CURRENT	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
VAV	VARIABLE AIR VOLUME	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
VEL	VELOCITY	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
VERT	VERTICAL	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
VTR	VENT THROUGH ROOF	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
WB	WET BULB	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
WCO	WALL CLEANOUT	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
WH	WALL HYDRANT	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	
Z	ZONE	— —	ANCHOR, WALL		ACOUSTICAL DUCT LINING	MATERIALS SPECIFICATIONS		VENTILATION VERIFICATION	

## MECHANICAL PROJECT NOTES

A. THESE DRAWINGS REFLECT INFORMATION ON EXISTING BUILDING SERVICES GATHERED BY SITE INSPECTIONS, DISCUSSIONS WITH MAINTENANCE PERSONAL, PREVIOUS CONSTRUCTION DOCUMENTS AND INFORMATION PROVIDED BY OTHERS WHO HAVE REPORTED THE AS-BUILT CONDITIONS. THE EXACT LOCATION, ARRANGEMENT, AND SIZE OF PIPELINES, DUCTWORK, AND EQUIPMENT MAY BE DIFFERENT FROM THAT SHOWN ON THESE DRAWINGS. ALL BIDDERS AND THOSE RELYING ON THESE RECORD DOCUMENTS ARE TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE AND CAUTIONED TO INVESTIGATE EXISTING BUILDING CONDITIONS PRIOR TO SUBMITTING THEIR BIDS TO INSURE THAT THE WORK REPRESENTED ON THESE SPECIFICATIONS CAN BE INSTALLED AS INDICATED. NOTIFY THE ARCHITECT/ENGINEER OF ANY MAJOR DISCREPANCIES. CONTRACTOR SHALL PERFORM ALL REQUIRED FIELD MEASUREMENTS PRIOR TO FABRICATING NEW DUCTWORK, PIPING, COMPONENTS, AND DEVICES. FAILURE TO DO SO SHALL RELIEVE THE ARCHITECT/ENGINEER/OWNER FROM ANY ADDED COST CHANGES. NO EXTRAS WILL BE GIVEN DUE TO UNFAMILIARITY WITH ALL EXISTING CONDITIONS.

B. FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, FEES, PERMITS, CERTIFICATE OF INSPECTION, ETC. NECESSARY OR REASONABLE, REQUIRED FOR THE COMPLETE INSTALLATION OF ALL AIR CONDITIONING WORK.

C. WORK SHALL BE IN STRICT ACCORDANCE WITH ASHRAE GUIDE, AND SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CODES, LAWS, ACTS, ORDINANCES, REGULATIONS AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.

D. THE COMPLETED INSTALLATION SHALL BE IN ACCORDANCE WITH ALL THE APPLICABLE INDUSTRY STANDARDS OF GOOD PRACTICE, SAFETY, AND THE MANUFACTURERS STRICTEST RECOMMENDATIONS FOR EQUIPMENT AND PRODUCT APPLICATION AND INSTALLATION.

E. THESE DRAWINGS ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL MAKE MODIFICATIONS INCLUDING OFFSETS, TURNS, AND RE-ROUTING REQUIRED TO COMPLETE THE INSTALLATION. DO NOT SCALE LOCATION OF EQUIPMENT, DUCTWORK OR PIPING.

F. COORDINATE ALL MECHANICAL WORK, INCLUDING EQUIPMENT, DUCTWORK AND PIPING, WITH OTHER TRADES PRIOR TO WORK.

G. COORDINATE LOCATION OF ALL GRILLES, DIFFUSERS, DUCTS, ETC. WITH CEILING, LIGHTS, FIRE PROTECTION, AND ARCHITECTURAL REFLECTED CEILING PLAN. LIGHTING AND SPRINKLER HEADS TAKE PRECEDENCE OVER DIFFUSER LOCATIONS. CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS TO DUCTWORK AND DIFFUSER LOCATIONS TO AVOID ANY CONFLICT WITH LIGHTING AND SPRINKLER LAYOUT.

H. THE CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR REGARDING SPACE AVAILABILITY FOR RECESSED LIGHTING & DUCTWORK TO AVOID RELOCATING DUCTWORK AT THE MECHANICAL CONTRACTORS EXPENSE.

I. CONTRACTOR TO VERIFY THAT ALL DUCTWORK WILL FIT WHERE INDICATED WITHOUT INTERFERENCES PRIOR TO FABRICATING.

J. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING EQUIPMENT SO THAT NO INTERFERENCES ARE ENCOUNTERED WITH OTHER EQUIPMENT OR WITH STRUCTURAL ELEMENTS.

K. ALL HVAC WORK IS TO RUN IN A NEAT AND PROFESSIONAL MANNER, WITH THE AESTHETICS OF THE FACILITY OF PARAMOUNT IMPORTANCE. ALL ROUGH-IN WORK TO BE HIDDEN WITHIN WALLS AND ABOVE CEILING UNLESS OTHERWISE NOTED.

L. ALL WORK SHALL BE LOCATED TO AVOID CONFLICTS WITH OTHER TRADES. CLOSELY COORDINATE ALL WORK WITH ALL OTHER TRADES. FAILURE OF THE CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES SHALL RELIEVE THE ARCHITECT/ENGINEER/OWNER FROM ANY ADDED COSTS.

M. THE CONTRACTOR SHALL DO ALL NECESSARY CUTTING OF WALLS AND CEILING. PATCH AROUND ALL OPENINGS TO MATCH EXISTING CONSTRUCTION. NO STRUCTURAL MEMBER SHALL BE CUT WITHOUT PERMISSION FROM THE ENGINEER.

N. CONTRACTOR TO COORDINATE ALL FINAL THERMOSTAT LOCATIONS WITH OWNER AND ARCHITECT PRIOR TO MOUNTING. MOUNT ALL WALL MOUNTED THERMOSTATS AT 46"-48" ABOVE FINISHED FLOOR FOR DISABLED ACCESS COMPLIANCE PER THE IMC AND ADA.

O. CONTRACTOR TO VERIFY AND COORDINATE AVAILABLE VOLTAGE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

P. THE CONTRACTOR SHALL COORDINATE THE PAINTING OF ALL EXPOSED DUCTWORK AND AIR DISTRIBUTION WITH THE ARCHITECT AND GENERAL CONTRACTOR. EXPOSED DUCTWORK SHALL BE "PAINT READY".

Q. ALL DUCTWORK SHALL BE CONSTRUCTED FROM NEW HOT DIPPED GALVANIZED SHEET IRON OR STEEL, ASTM A-653, IN ACCORDANCE WITH THE IMC, ASHRAE GUIDE, AND SMACNA STANDARDS FOR GAGE AND REINFORCEMENT. ALL LOW VELOCITY AIR CONDITIONING SUPPLY AIR AND RETURN AIR DUCTWORK SHALL BE 2-INCH DUCT CONSTRUCTION. CONTRACT AND ERRECT DUCTWORK IN ACCORDANCE WITH THE CURRENT ISSUES OF THE IMC, SMACNA STANDARDS AND ASHRAE HANDBOOKS. DUCTS SHALL CONFORM TO DIMENSIONS ON THE DRAWINGS UNLESS LOCATION OF STRUCTURAL MEMBERS PROHIBITS. IN CASE OF CHANGE IN DIMENSIONS, CROSS SECTIONAL AREAS SHALL BE MAINTAINED. DUCTWORK CROSSING FIRE RATED WALLS OR OTHER FIRE RATED ASSEMBLIES SHALL BE MINIMUM 26 GAUGE.

R. ROUND GALVANIZED SPIRAL SEAM DUCT WITH FACTORY FABRICATED FITTINGS. SPIRAL DUCTWORK SHALL BE GAUGED FOR 2" POSITIVE PRESSURE CLASS AS SPECIFIED IN TABLE 3-2A OF THE LATEST EDITION OF SMACNA DUCT CONSTRUCTION STANDARDS. SEALING SHALL BE AS REQUIRED IN THE SMACNA DUCT CONSTRUCTION STANDARDS FOR CONSTRUCTION PRESSURE CLASSES. SEALANT SHALL NOT EXCEED A FLAME SPREAD OF 25 OR A SMOKE DEVELOPMENT OF 50, AND SHALL BE UL LISTED FOR FLAME SPREAD AND SMOKE DEVELOPMENT.

S. EXHAUST DUCTWORK SHALL BE A MINIMUM OF 26 GAUGE GALVANIZED STEEL. SEE EQUIPMENT SCHEDULE AND FLOOR PLAN FOR SIZE AND TERMINATION POINT.

T. DUCT SIZES SHOWN ARE "CLEAR INSIDE" DIMENSIONS. INCREASE SHEET METAL SIZE ACCORDINGLY FOR LINED DUCTWORK.

U. ALL DUCTS SHALL BE SUBSTANTIALLY SUPPORTED WITH HANGERS TO THE STRUCTURE. SIZE, TYPE, AND PLACING OF SUPPORTS SHALL BE PER THE CURRENT EDITION OF THE IMC AND SMACNA STANDARDS.

V. PROVIDE RADIUS ELBOWS, TURNING VANES, SPLITTER DAMPERS, MANUAL VOLUME DAMPERS IN ALL BRANCHES, AIR EQUALIZERS, AND SIMILAR DEVICES WHEREVER NECESSARY TO PROPERLY BALANCE THE SYSTEM AND PRODUCE A QUIET AND DRAFTLESS OPERATION.

W. DIFFUSER AND GRILLE TAKE-OFFS FROM RECTANGULAR DUCTS TO ROUND DUCTS SHALL BE MADE WITH EITHER A SPIN-IN FITTING OR A 1/2" FLANGED BOTTOM TAP. ROUND TAKE-OFFS SHALL BE BUILT FROM 26 GAUGE GALVANIZED STEEL WITH A 24 GAUGE ROUND DAMPER BLADE AND LOCKING QUADRANT WITH 2" STAND-OFF TO ALLOW FOR INSULATION THICKNESS. REFERENCE FIGURE 7-4 OF THE 2005 EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

X. ALL "FACTORY-MADE" DUCT TO BE CLASS "0" OR CLASS "1".

Y. FLEXIBLE DUCTS SHALL BE THERMAFLEX II TYPE M-KE, FACTORY FABRICATED ASSEMBLY, SPIRAL CONSTRUCTION, FIBERGLASS BLANKET INSULATION (R=6.0), AND MYLAR SHEATH. FLEXIBLE DUCTS UL LISTED FOR CLASS 1 DUCT AND COMPLY WITH NFPA-90A.

Z. INSTALL FLEXIBLE DUCTS WITH A MINIMUM OF BENDS, AND EXTENDED STRAIGHT WHERE POSSIBLE. MINIMUM BEND RADIUS OF 1-1/2 TIMES THE DIAMETER OF THE DUCT MEASURED FROM THE CENTERLINE. ALL JOINTS AND CONNECTIONS SEALED AND CONNECTED TO SHEET METAL COLLARS WITH WORK DRIVE STEEL CLAMPS.

AA. THE MAXIMUM LENGTH OF ANY FLEX DUCT SHALL NOT EXCEED 8 FEET. PROVIDE RIGID ROUND DUCT UPSTREAM OF FLEX DUCT IF DUCT LENGTH EXCEEDS 8 FEET.

BB. MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELLED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 UL 723.

CC. FOR CONCEALED DUCTWORK, INSULATE THE FIRST 10 FEET OF ALL SUPPLY AIR AND ALL RETURN AIR SHEET METAL DUCTWORK INTERNALLY WITH JOHNS-MANVILLE LINACUSTIC RC FIBERGLASS DUCT LINER WITH REINFORCED COATING SYSTEM, THICKNESS 1-1/2" (R=6.0) AND DENSITY 1-1/2 PCF. ALL OTHER DUCTWORK AND RIGID ROUND DUCTWORK SHALL BE INSULATED WITH 2-1/3" THICK (R=6.0) JOHNS-MANVILLE MICROLITE DUCT WRAP WITH FSK VAPOR BARRIER.

DD. REFRIGERANT SUCTION AND LIQUID LINES SHALL BE TYPE "L" HARD DRAWN ABOVE GROUND AND TYPE "K" BELOW GRADE WITH WROUGHT COPPER FITTINGS AND BRAZED JOINTS. INSULATE WITH 1" THICK FLEXIBLE CLOSED CELL FOAMED PLASTIC PIPE INSULATION, ARMSTRONG ARAMFLEX, OR EQUAL FOR THE ENTIRE LENGTH. FITTING FIELD FABRICATED OF NESTING SIZES, SECURED WITH ADHESIVE.

EE. ALL MECHANICAL SYSTEMS INSULATION SHALL BE MANUFACTURED AND INSTALLED BY COMPANIES SPECIALIZING IN MANUFACTURING/INSTALLING THE SPECIFIED PRODUCTS WITH A MINIMUM OF 5 YEARS DOCUMENTED EXPERIENCE.

FF. ALL MECHANICAL EQUIPMENT LOCATIONS TO COMPLY WITH THE CURRENT EDITION OF THE IMC.

GG. ALL EQUIPMENT AND WORK SHALL BE LOCATED TO PROVIDE REQUIRED CLEARANCES PER CODE, MANUFACTURERS RECOMMENDATIONS, SERVICE AREA, PROPER OPERATION, AND ARCHITECTURAL DESIGN.

HH. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" HORIZONTALLY OR 3'-0" ABOVE ANY EXHAUST OUTLETS OR PLUMBING VENTS.

II. EXTEND CONDENSATE DRAINS AS SHOWN. CONDENSATE DRAIN PIPING SHALL BE ASTM B-88, TYPE "M" HARD DRAWN COPPER WITH WROT COPPER FITTINGS AND SOLDERED JOINTS, 50/50 SOLDER. INSULATE WITH 1/2" THICK FLEXIBLE CLOSED CELL FOAMED PLASTIC PIPE INSULATION, ARMSTRONG ARAMFLEX, OR EQUAL FOR ENTIRE LENGTH. FITTINGS FIELD FABRICATED OF NESTING SIZES, SECURED WITH ADHESIVE.

JJ. CHANGE FILTER MEDIA AS DIRECTED, AND ADJUST REFRIGERANT CHARGE AT COMPLETION OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE THREE (3) SETS OF FILTERS FOR EACH PIECE OF EQUIPMENT. PROVIDE ONE (1) SET OF SPECIFIED FILTERS JUST PRIOR TO TEST AND BALANCE. PROVIDE ONE (1) SET OF SPECIFIED FILTERS PRIOR TO OWNER OCCUPANCY OR AS DIRECTED BY THE OWNER. FILTER USED DURING CONSTRUCTION MAY BE THROWAWAY FILTERS IN LIEU OF SPECIFIED FILTERS.

NN. SET AIR CONDITIONING/AIR HANDLER UNITS OUTSIDE AIR INTAKE DAMPERS TO BRING IN OUTSIDE AIR CFM AS SCHEDULED OR NOTED.

OO. PROVIDE AS PART OF THE MECHANICAL CONTRACT SERVICES OF AN INDEPENDENT TEST AND BALANCE CONTRACTOR. THE BALANCING SHALL BE PERFORMED BY AGENCIES WHO HAVE BEEN REGULARLY ENGAGED IN TESTING AND BALANCING WORK FOR A MINIMUM OF FIVE (5) CONSECUTIVE YEARS AND WHO ARE CERTIFIED BY THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). THE TEST AND BALANCE FIRM SHALL EXAMINE THE DRAWINGS AND PROVIDE TESTING, ADJUSTING AND BALANCING OF ALL EQUIPMENT AND SYSTEMS INDICATED ON THE DRAWINGS. ALL INSTRUMENTS SHALL BE PROPERLY CALIBRATED. TABULATE ALL TEST DATA ON NEBB OR AABC FORMS. IF PROBLEMS ARE ENCOUNTERED DURING BALANCING, THE TAB CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR AND IF NECESSARY, THE ARCHITECT/ENGINEER FOR INSTRUCTIONS BEFORE COMPLETION OF TESTING AND BALANCING. SUBMIT REPORT TO ARCHITECT/OWNER WITHIN 10 DAYS OF COMPLETING TEST AND BALANCE. BALANCE AIR DISTRIBUTION TO WITHIN 10% OF VALUES LISTED ON DRAWINGS.

QQ. SUBMIT ACCURATE "AS-BUILT" DRAWINGS TO OWNER UPON PROJECT COMPLETION.

RR. PROVIDE A READY-TO-USE SYSTEM WITH ALL WORK GUARANTEED IN WRITING AGAINST DEFECTIVE WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR MINIMUM FROM OWNER OCCUPANCY UNLESS ARCHITECT SPECIFIES A LONGER WARRANTY TERM.

## DIFFUSER, GRILLE & REGISTER SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	FRAME	STYLE	MATERIAL	FINISH	O.B.D.	REMARKS
A	CEILING DIFFUSER	PRICE	SCD	24"x24" LAY-IN	SQUARE CONE	STEEL	WHITE	NO	
B	CEILING DIFFUSER	PRICE	ASMD	SURFACE MOUNTED	MODULAR	ALUM	WHITE	YES	
C	RETURN GRILLE	PRICE	530	24"x24" LAY-IN	45 DEG FIXED BARS	STEEL	WHITE	NO	
D	SUPPLY REGISTER	PRICE	SDGE	SURFACE MOUNTED	DOUBLE DEFLECTION	ALUM	B15	YES	1
E	RETURN REGISTER	PRICE	530	SURFACE MOUNTED	45 DEG FIXED BARS	STEEL	WHITE	YES	
F	RETURN REGISTER	PRICE	530	SURFACE MOUNTED	45 DEG FIXED BARS	STEEL	WHITE	NO	

1. RADIUS OF REGISTER SHALL MATCH THE RADIUS OF THE DUCTWORK

## INTAKE AIR HOOD SCHEDULE

SYMBOL	MANUFACTURER	MODEL #	THROAT SIZE	DAMPER TYPE	CFM	E.S.P.	HEIGHT W/O CURB	REMARKS
IH- 1 & 2	GREENHECK	FQJ	8"x8"	COUNTER WEIGHTED	210	0.04"	14"	1,2

1. UL LISTED

2. PROVIDE WITH 12" ROOF CURB, COUNTER WEIGHTED BACK DRAFT DAMPER AND BIRD SCREEN

## SPLIT SYSTEM HEAT PUMP SCHEDULE

SYMBOL	MANUFACTURER	MODEL #		INDOOR UNIT								OUTDOOR UNIT							REFRIG	MIN. AIR SEER	COOLING					HEATING			REMARKS
		INDOOR UNIT	WEIGHT	OUTDOOR UNIT	WEIGHT	TOTAL CFM	O.S.A. CFM	E.S.P. I.W.G.	HP	VOLT / PH	FLA	MCA	MOCP	VOLT / PH	ENT. AIR DB	WB	AMBIENT DB	TMBH			SMBH	CAPACITY DB	AMBIENT DB	TMBH					
I/UOU - 5T	CARRIER	FX4DNF01	210 LBS	25HPFB660	320 LBS	1880	SEE PLAN	0.5"	3/4	208 / 1	18.8	22.8	35.0	208 / 3	R-410A	15.4	80.0	63.0	110	50.4	45.3	70.0	34	43.9	1 THRU 8				
I/UOU - 3T	CARRIER	FX4DNF049	190 LBS	25HPFB636	235 LBS	1150	SEE PLAN	0.5"	3/4	208 / 1	12.0	14.9	25.0	208 / 3	R-410A	15.4	80.0	63.0	110	29.2	25.4	70.0	34	22.8	1 THRU 8				

1. CRANKCASE HEATER

2. FAN DELAY RELAY KIT

3. HIGH / LOW PRESSURE SAFETY SWITCHES

4. ANTI-SHORT CYCLE TIMER

5. 1" FILTER RACK WITH 1" PLEATED MEDIA FILTER MERV 8

6. LOW AMBIENT COOLING CAPACITY TO 30 DEG F AMBIENT

7. ELECTRONIC PROGRAMMABLE THERMOSTAT WITH WI-FI CAPABILITY

8. PROVIDE IN-LINE CONDENSATE OVERFLOW SAFETY SWITCH LITTLE GIANT MODEL #ACS-4 INSTALLED IN SECONDARY CONDENSATE LINE AND CONNECTED TO AN

AUDIBLE VISUAL ALARM MOUNTED IN A CONSPICUOUS LOCATION TO ALERT OCCUPANTS THAT THERE IS A TROUBLE CONDITION

## PACKAGED HEAT PUMP UNIT SCHEDULE

SYMBOL	MANUFACTURER	MODEL #		AIR CAPACITIES								ELECTRICAL DATA								MIN. AIR EFFICIENCY	REFRIG.	COOLING					HEATING			UNIT HEIGHT W/O CURB	WEIGHT	REMARKS
		TOTAL CFM	OSA CFM	ESP I/W.G.	BHP	FLA	MCA	MOCP	VOLT / PHASE	ENT. AIR DB	WB	AMBIENT DB	TMBH	SMBH	ENT. AIR DB	AMBIENT DB	CAPACITY TMBH															
HP - 4T	CARRIER	50GCQM05	1,600	SEE PLAN	0.5"	MED	22.6	27.0	30	208 / 3	16.2 SEER	R-410A	80.0	63.0	110	39.2	37.5	70.0	34.0	35.3	41.4	800 LBS	1 THRU 8									
HP - 3T	CARRIER	50GCQM04	1,200	SEE PLAN	0.5"	MED	18.4	22.0	30	208 / 3	16.2 SEER	R-410A	80.0	63.0	110	29.0	27.8	70.0	34.0	26.0	33.4	750 LBS	1 THRU 8									

1. ECOBLUE VANE AXIAL EVAPORATOR FAN SYSTEM WITH DIRECT DRIVE EC MOTOR

2. EVAPORATOR FAN SHALL BE CONFIGURABLE THROUGH A SIMPLE SWITCH AND POT ADJUSTMENT DESIGN

3. COOLING OPERATION CAPABILITY DOWN TO 25 DEG F AMBIENT

4. 2" FILTER RACK WITH 2" PLEATED MERV 8 FILTER

5. CONDENSER COIL LOUVERED HAIL GUARD

6. 14" ADJUSTABLE PITCH ROOF CURB

7. SMART WI-FI COMMERCIAL THERMOSTAT

8. 3-POSITION MOTORIZED FRESH AIR INTAKE DAMPER

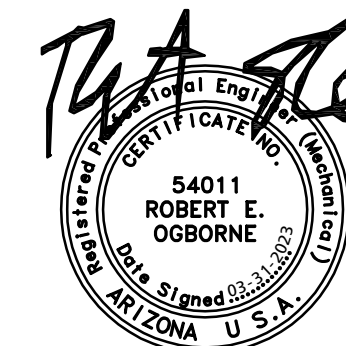
## EXHAUST FAN SCHEDULE

SYMBOL	MANUFACTURER	MODEL #	TYPE	CFM	E.S.P.	RPM	MAX. TIP (FPM)	DRIVE	MOTOR			MAX SONES	LOCATION	WEIGHT (LBS)	REMARKS
									HP	WATTS	VOLT / PH				
EF - 1	GREENHECK	SPA190	CEILING FAN	150	0.25"	1,249	1,798	DIRECT	-	33	120 / 1	1.1	BATH 1	-	1,2,3
EF - 2	GREENHECK	SPA190	CEILING FAN	150	0.25"	1,249	1,798	DIRECT	-	33	120 / 1	1.1	BATH 2	-	1,2,3
EF - 3	GREENHECK	SPA190	CEILING FAN	100	0.25"	1,097	1,580	DIRECT	-	20	120 / 1	0.6	RESTROOM 1	-	1,2,3
EF - 4	GREENHECK	SPA110	CEILING FAN	100	0.13"	860	1,238	DIRECT	-	13	120 / 1	0.3	RESTROOM 3	-	1,2,3
EF - 5	GREENHECK	SPA110	CEILING FAN	100	0.13"	860	1,238	DIRECT	-	13	120 / 1	0.3	RESTROOM 4	-	1,2,3
EF - 6	GREENHECK	SPA110	CEILING FAN	100	0.13"	860	1,238	DIRECT	-	13	120 / 1	0.3	RESTROOM 2	-	1,2,3
EF - 7	GREENHECK	SPA190	CEILING FAN	150	0.13"	1,095	1,577	DIRECT	-	23	120 / 1	0.8	BATH 3	-	1,2,3

1. UL LISTED

2. PROVIDE WITH 12" ROOF CURB AND CAP. VIBRATION ISOLATION HANGER KIT, BIRDSCREEN, SPEED CONTROLLER AND BACKDRAFT DAMPER

3. CONTROLLED BY LOCAL SWITCH WITH INTEGRAL TIMER FUNCTION



## OB-GYN

4338 W. Thomas Rd.  
Suite #173  
Phoenix, AZ 85301

Project Number 21066

Date 3/31/23

Drawn By REO

Checked By REO

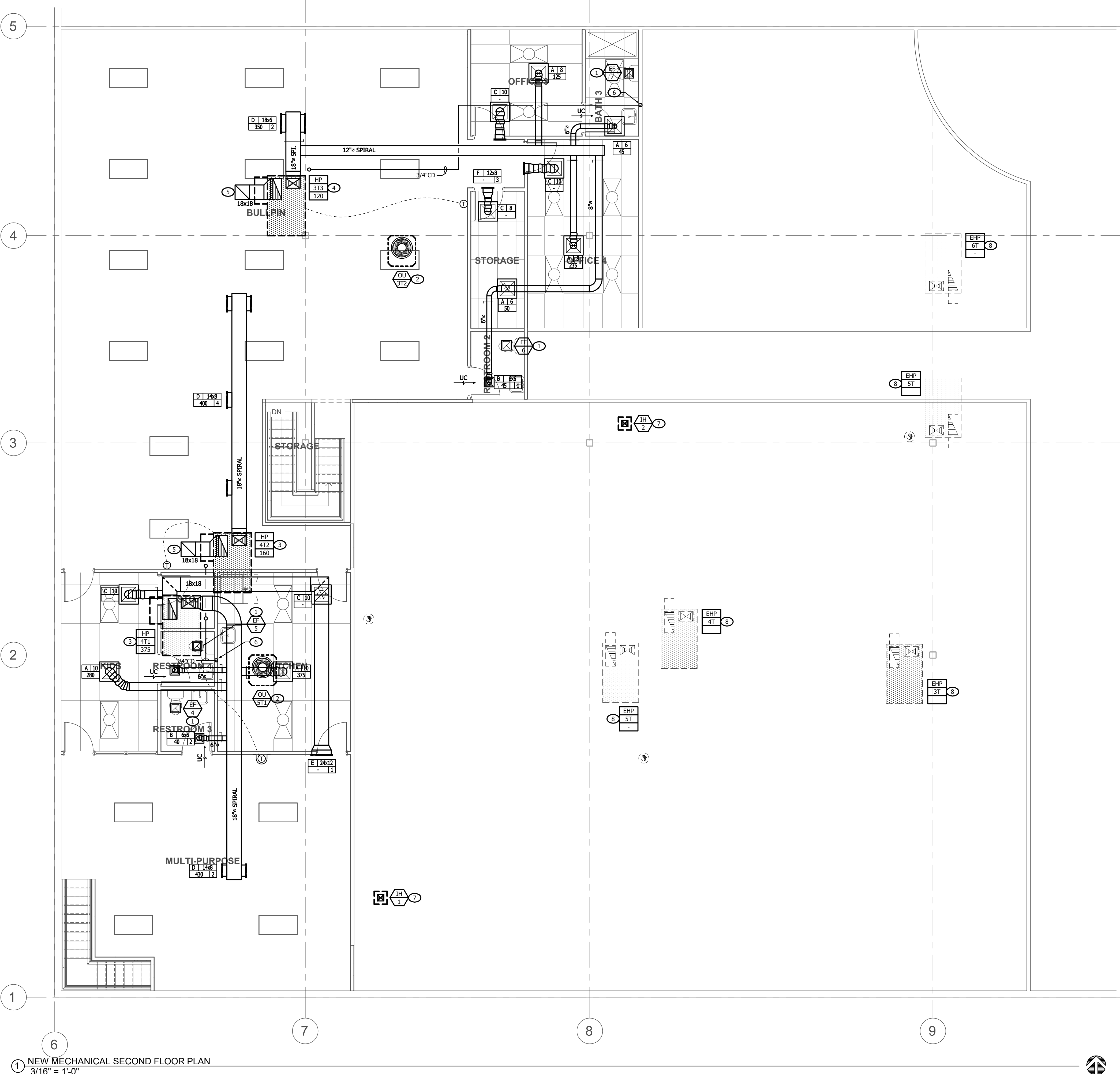
## MECHANICAL SCHEDULES

# M0.2

Scale As indicated







**KEYED NOTES**

- EXTEND FULL SIZE EXHAUST AIR DUCTWORK FROM CEILING FAN UP THRU ROOF TO ROOF CURB AND CAP. CONTRACTOR SHALL MAINTAIN A MINIMUM 10'-0" SEPARATION FROM ANY FRESH AIR INTAKE.
- OUTDOOR UNIT MOUNTED ON EQUIPMENT PLATFORM. CONTRACTOR SHALL ROUTE, SIZE AND CONNECT REFRIGERANT PIPING BETWEEN INDOOR AND OUTDOOR UNIT PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE NEW ROOFTOP UNIT MOUNTED ON NEW FACTORY ROOF CURB AT LOCATION OF EXISTING ROOF CURB. SET UNIT LEVEL. DISCONNECT AND REMOVE EXISTING ROOF CURB FOR INSTALLATION OF NEW. PATCH AND REPAIR ROOF WEATHER TIGHT AS REQUIRED. EXTEND 3/4" COIL CONDENSATE LINE FROM UNIT AND ROUTE AS SHOWN.
- PROVIDE NEW ROOFTOP UNIT MOUNTED ON NEW FACTORY ROOF CURB, SET UNIT LEVEL. EXTEND 3/4" COIL CONDENSATE LINE FROM UNIT AND ROUTE AS SHOWN.
- PROVIDE FULL SIZE OPENING IN TOP SIDE OF RETURN AIR DUCT. COVER OPENING WITH HARDWARE CLOTH SCREEN.
- EXTEND 3/4" COIL CONDENSATE LINE DOWN IN WALL AND TERMINATE AT SINK TAIL PIECE. COORDINATE REQUIREMENTS WITH PLUMBING CONTRACTOR.
- PROVIDE NEW INTAKE AIR HOOD MOUNTED ON NEW FACTORY ROOF CURB, SET UNIT LEVEL. EXTEND FULL SIZE DUCT FROM HOOD DOWN THRU ROOF TO FIRST LEVEL.
- EXISTING MECHANICAL UNIT SHALL REMAIN AS IS.

**GENERAL NOTES**

- ALL WORK SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES, LAWS, ACTS, AND THE AUTHORITIES HAVING JURISDICTION.
- THE COMPLETED INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE INDUSTRY STANDARD OF GOOD PRACTICE AND SAFETY, AND THE MANUFACTURER'S STRICTEST RECOMMENDATIONS FOR EQUIPMENT AND PRODUCT APPLICATION AND INSTALLATION.
- ALL WORK SHALL BE LOCATED TO PROVIDE ADEQUATE CLEARANCE FOR ARCHITECTURAL DESIGN AND PROPER OPERATION AND SERVICE OF EQUIPMENT.
- CONTRACTOR TO DOCUMENT WITH OWNER ALL DAMAGED EXISTING CONDITIONS PRIOR TO START OF WORK.
- VISIT THE SITE TO ASCERTAIN AND UNDERSTAND THE NATURE OF THE SCOPE OF ALL WORK TO BE PERFORMED AND VERIFY EXISTING CONDITIONS. THE SUBMISSION OF A BID WILL BE TAKEN AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND ALL CONDITIONS HAVE BEEN CONSIDERED AND VERIFIED. NO EXTRAS WILL BE GIVEN DUE TO UNFAMILIARITY WITH ALL EXISTING CONDITIONS.
- THERMOSTAT SHALL BE MOUNTED AT 48" A.F.F. DIRECTLY ABOVE OR NEXT TO LIGHT SWITCH IF APPLICABLE. COORDINATE FINAL THERMOSTAT LOCATION WITH ARCHITECT.
- FIRE SPRINKLERS AND LIGHTS TAKE PRECEDENCE OVER DIFFUSERS. CONTRACTOR TO VERIFY LOCATIONS WITH ARCHITECT.
- NEW FLOOR PLAN: MECHANICAL EQUIPMENT, DUCTWORK, PIPING, GRILLES, ETC. SHOWN DASHED AND SHADED ARE EXISTING AND TO REMAIN AS IS UNLESS NOTED OTHERWISE.
- CONDENSATE SHALL BE 3/4" FOR ALL UNITS UNLESS OTHERWISE NOTED AND SLOPED AT A MINIMUM 1/8" PER FOOT TO POINT OF TERMINATION.
- REFER TO MECHANICAL PROJECT NOTES FOR ADDITIONAL INFORMATION.
- DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL MAKE ANY MINOR MODIFICATIONS, INCLUDING ALL OFFSETS, TURNS, AND REROUTING REQUIRED TO COMPLETE THE INSTALLATION.

**FIELD VERIFY NOTES**

THE HVAC CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO FIELD VERIFY ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS BID. THE FOLLOWING ITEMS, BUT NOT LIMITED TOO, SHALL BE VERIFIED.

- EXACT PLACEMENT, SIZE, CAPACITY, MANUFACTURER, AND CONDITION OF ALL EXISTING HVAC EQUIPMENT WITHIN SCOPE OF WORK, WHETHER SPECIFICALLY SHOWN OR NOT.
- SIZE AND LOCATION OF ALL EXISTING DUCTWORK AND SPRINKLER PIPING.
- SIZE AND LOCATION OF ALL EXISTING GRILLES, REGISTERS, AND DIFFUSERS.
- SIZE AND LOCATION OF ALL EXISTING THERMOSTATIC CONTROL DEVICES.

ALL REFERENCES ON THESE DRAWINGS TO EXISTING EQUIPMENT, DUCTWORK, DIFFUSERS, THERMOSTATS, AND PIPING ARE FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL THESE ITEMS PRIOR TO BID AND INCLUDE IN HIS BID ANY AND ALL AMOUNTS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS.

NO ALLOWANCES WILL BE MADE AFTER THE PROJECT HAS BEEN AWARDED FOR FAILURE TO VERIFY EXISTING CONDITIONS.

ANY DISCREPANCIES WHICH MAY AFFECT THE CONTRACTORS BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT FOR DIRECTIONS.



**Designer:**  
**B.E. Designs, LLC.**  
 21320 N. 56th St. Unit 2204  
 Phoenix, AZ 85054  
 623-692-4808

**Owner:**  
**Helen Bouchard-Bujak**  
 4338 W. Thomas Rd.  
 Suite 173  
 623-341-2825

**Contractor:**  
**Phoenix Property Group**  
 15411 W. Waddell Rd.  
 Suite 106  
 Surprise, AZ 85379  
 602-374-2302

No.	Description	Date



**OB-GYN**  
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 Suite #173  
 Phoenix, AZ 85301

Project Number	21066
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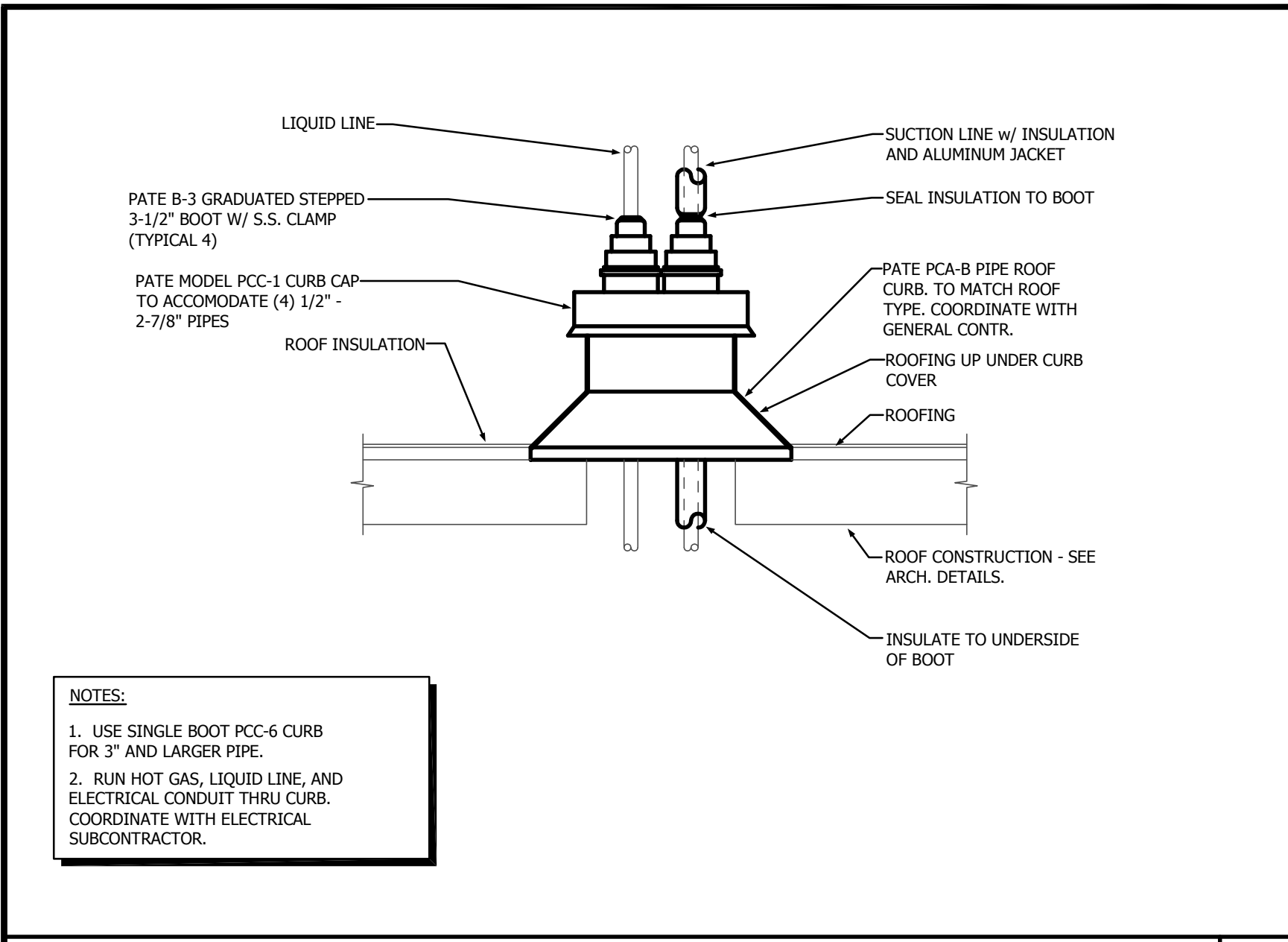
**NEW MECHANICAL  
 SECOND FLOOR PLAN**

**M1.1**

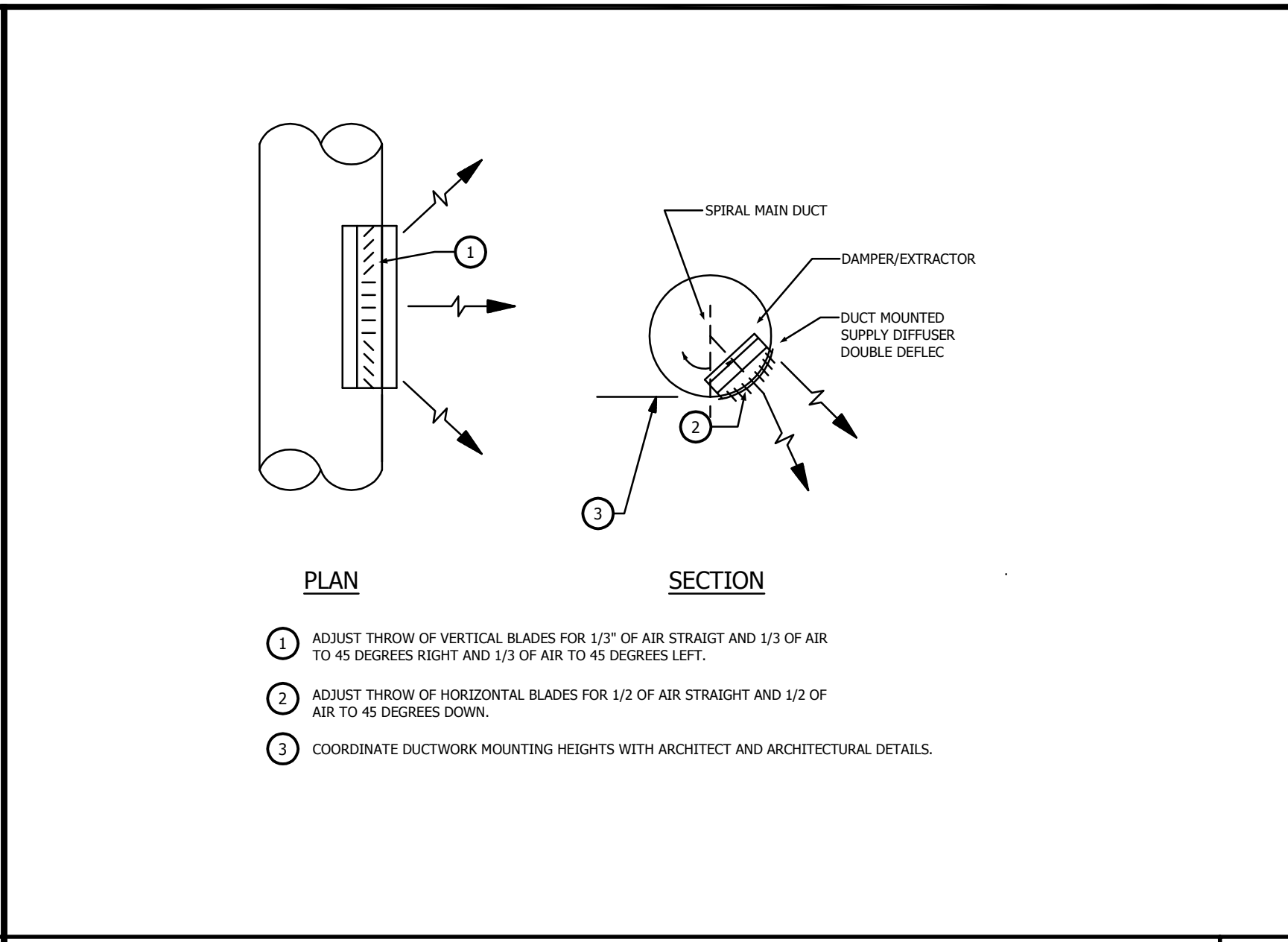
Scale As indicated

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

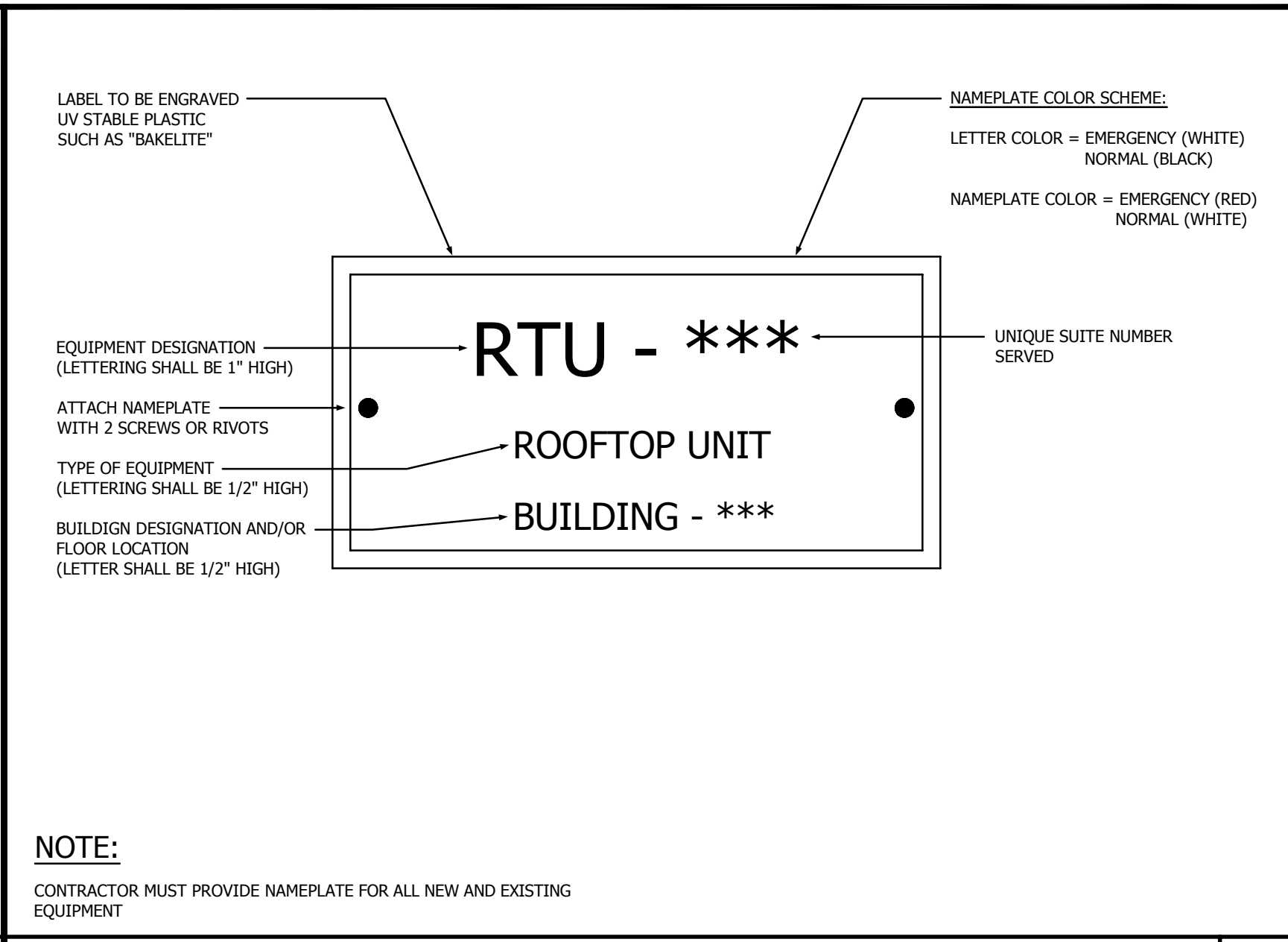




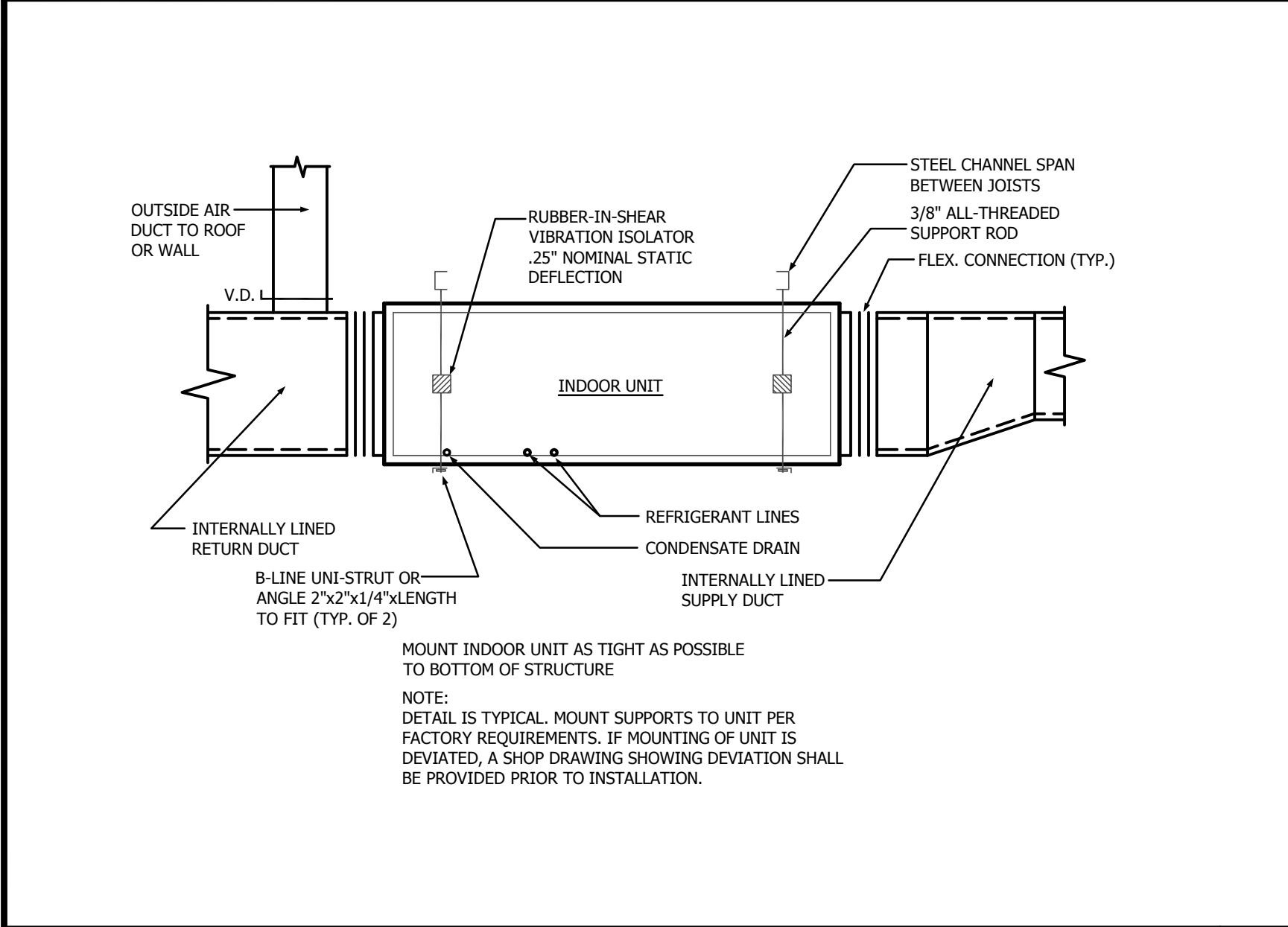
PIPE THRU ROOF (REFRIG. PIPING) 6



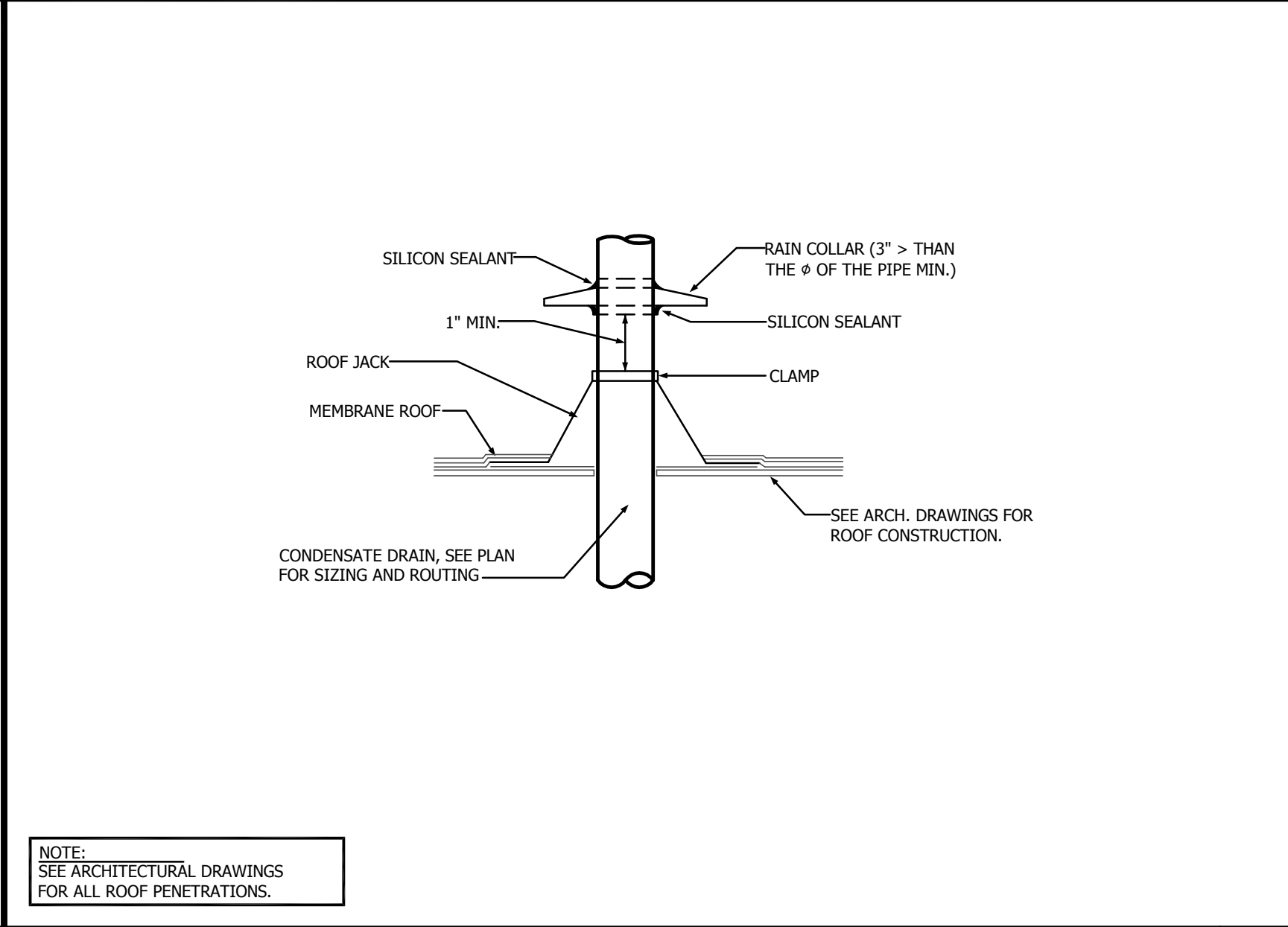
TYPICAL SUPPLY OUTLET FOR ALL EXPOSED DUCTWORK 3



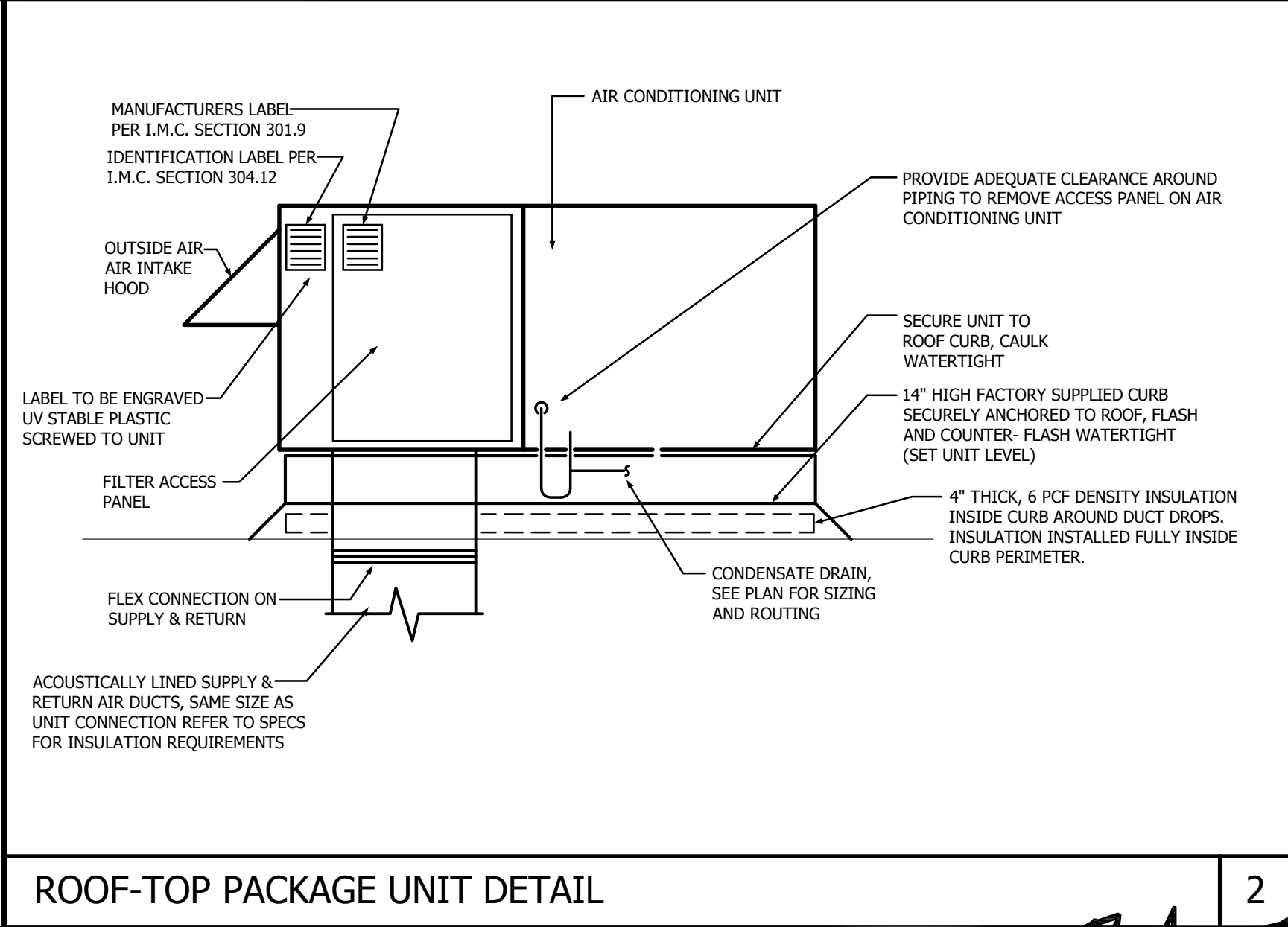
MECHANICAL NAMEPLATE DETAIL 1



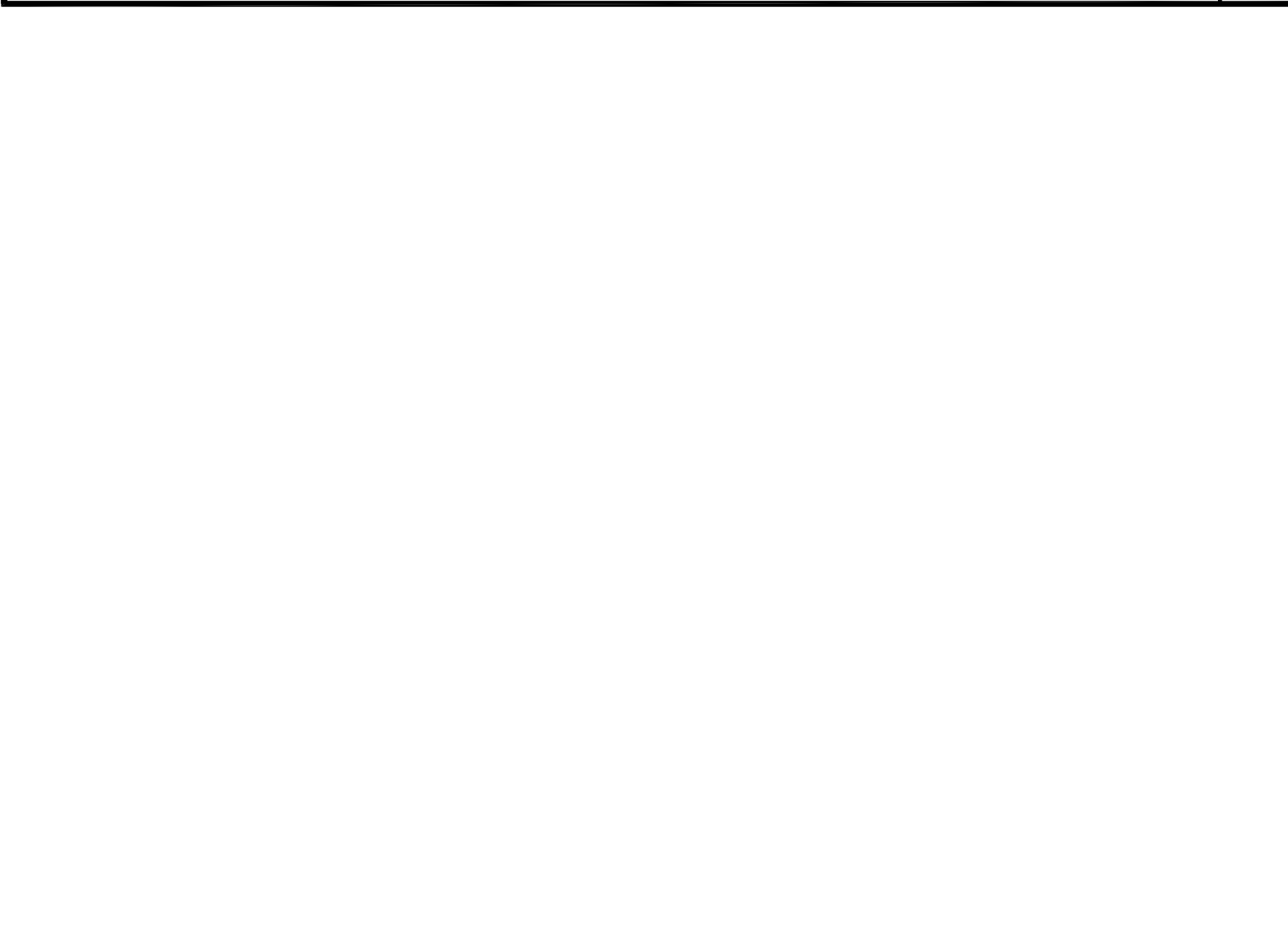
INDOOR UNIT DETAIL 7



CONDENSATE DRAIN THROUGH ROOF DETAIL 4



ROOF-TOP PACKAGE UNIT DETAIL 2



EQUIPMENT BASE DETAIL 5



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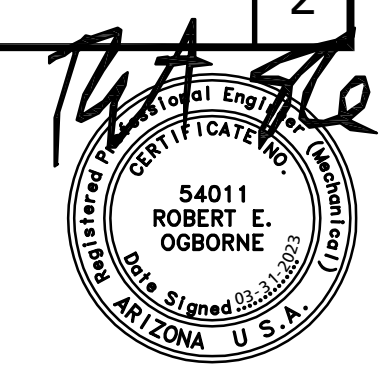
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 4338 W. Thomas Rd.  
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**MECHANICAL DETAILS**

**M2.2**

Scale	As indicated
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PLUMBING LEGEND		
SYMBOL	ABBR.	DESCRIPTION
—SS—	SS	SOIL, WASTE, OR SANITARY SEWER
—V—	V	VENT PIPE
—CW—	CW	COLD WATER PIPE
—HW—	HW	HOT WATER PIPE
—HWR—	HWR	HOT WATER RETURN PIPE
—FCO/SCO—	FCO/SCO	FLOOR/SURFACE CLEANOUT
—WCO—	WCO	TWO WAY SURFACE CLEANOUT
—WCO—	WCO	WALL CLEANOUT
—U—	U	UNION
—VTR—	VTR	VENT THRU ROOF
—FD—	FD	FLOOR DRAIN
—FS—	FS	FLOOR SINK
—POC—	POC	POINT OF CONNECTION
—GV—	GV	GATE VALVE
—BV—	BV	BALL VALVE (FULL PORT)
—S—	S	STRAINER
—CV—	CV	CHECK VALVE
—PD—	PD	PIPE DROP
—PR—	PR	PIPE RISE
—PC—	PC	PIPE CAP
—PS—	PS	PIPE STOP
—BC—	BC	BOTTOM CONNECTION
—PR—	PR	PRESSURE RELIEF
—FA—	FA	FLOW ARROW
—RCP—	RCP	RECIRCULATING PUMP
—BV—	BV	HWR BALANCING VALVE

**PLUMBING PROJECT NOTES**

A. THESE DRAWINGS REFLECT INFORMATION ON EXISTING BUILDING SERVICES GATHERED BY SITE INSPECTIONS. THE EXACT LOCATION, ARRANGEMENT, AND SIZE OF PIPELINES, DUCTWORK, AND EQUIPMENT MAY BE DIFFERENT FROM THAT SHOWN ON THESE DRAWINGS. ALL BIDDERS AND THOSE RELYING ON THESE RECORD DOCUMENTS ARE TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE AND CAUTIONED TO INVESTIGATE EXISTING BUILDING CONDITIONS PRIOR TO SUBMITTING THEIR BIDS TO INSURE THAT THE WORK REPRESENTED ON THE DRAWINGS AND IN THESE SPECIFICATIONS CAN BE INSTALLED AS INDICATED. NOTIFY THE ARCHITECT/ENGINEER OF ANY MAJOR DISCREPANCIES. CONTRACTOR SHALL PERFORM ALL REQUIRED FIELD MEASUREMENTS PRIOR TO FABRICATING PIPING, COMPONENTS, AND DEVICES. FAILURE TO DO SO SHALL RELIEVE THE ARCHITECT/ENGINEER/OWNER FROM ANY ADDED COST CHANGES. NO EXTRAS WILL BE GIVEN DUE TO UNFAMILIARITY WITH ALL EXISTING CONDITIONS.

B. FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, FEES, PERMITS, CERTIFICATE OF INSPECTION, ETC. NECESSARY OR REASONABLE, REQUIRED FOR THE COMPLETE INSTALLATION OF ALL PLUMBING WORK.

C. WORK SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CODES, LAWS, ACTS, ORDINANCES, REGULATIONS AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.

D. THE COMPLETED INSTALLATION SHALL BE IN ACCORDANCE WITH ALL THE APPLICABLE INDUSTRY STANDARDS OF GOOD PRACTICE, SAFETY, AND THE MANUFACTURERS STRICTEST RECOMMENDATIONS FOR EQUIPMENT AND PRODUCT APPLICATION AND INSTALLATION.

E. THESE DRAWINGS ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL MAKE MODIFICATIONS INCLUDING OFFSETS, TURNS, AND RE-ROUTING REQUIRED TO COMPLETE THE INSTALLATION. DO NOT SCALE LOCATION OF EQUIPMENT OR PIPING.

F. COORDINATE ALL PLUMBING WORK, INCLUDING EQUIPMENT AND PIPING, WITH OTHER TRADES PRIOR TO WORK.

G. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING EQUIPMENT SO THAT NO INTERFERENCES ARE ENCOUNTERED WITH OTHER EQUIPMENT OR WITH STRUCTURAL ELEMENTS.

H. ALL PLUMBING WORK IS TO RUN IN A NEAT AND PROFESSIONAL MANNER, WITH THE AESTHETICS OF THE FACILITY OF PARAMOUNT IMPORTANCE. ALL ROUGH-IN WORK TO BE HIDDEN WITHIN WALLS AND ABOVE CEILING UNLESS OTHERWISE NOTED.

I. ALL WORK SHALL BE LOCATED TO AVOID CONFLICTS WITH OTHER TRADES. CLOSELY COORDINATE ALL WORK WITH ALL OTHER TRADES. FAILURE OF THE CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES SHALL RELIEVE THE ARCHITECT/ENGINEER/OWNER FROM ANY ADDED COSTS.

J. THE CONTRACTOR SHALL DO ALL NECESSARY CUTTING OF WALLS AND CEILING. PATCH AROUND ALL OPENINGS TO MATCH EXISTING CONSTRUCTION. NO STRUCTURAL MEMBER SHALL BE CUT WITHOUT PERMISSION FROM THE ENGINEER.

K. CONTRACTOR TO VERIFY AND COORDINATE AVAILABLE VOLTAGE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

L. THESE DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE LOCATIONS OF FIXTURES, EQUIPMENT, LINES, ETC. COORDINATE ALL DOCUMENTS AS TO PROPER LOCATIONS OF ALL EQUIPMENT AND MATERIALS.

M. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.

N. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW WASTE LINES ARE TO BE CONNECTED BEFORE MAKING UP OR INSTALLATION OF NEW WASTE SYSTEM.

O. THE INSTALLATION OF ALL VALVES, UNIONS, THERMOMETERS, GAUGES, OR OTHER INDICATING OR RECORDING EQUIPMENT, OR SPECIALTIES REQUIRING FREQUENT READING, REPAIRS, ADJUSTMENT, INSPECTION, REMOVAL OR REPLACEMENT SHALL BE CONVENIENTLY AND ACCESSIBLY LOCATED WITH REFERENCE TO THE FINISHED BUILDING.

P. ALL VENTS THRU ROOF SHALL BE 10'-0" REMOVED FROM ALL AIR INTAKES.

Q. WHERE POSSIBLE TIE VENT PIPING TOGETHER SO THAT A MINIMUM NUMBER TERMINATE THROUGH THE ROOF.

R. CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURERS SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED.

S. NO PIPING OR EQUIPMENT SHALL BE INSTALLED ABOVE ELECTRICAL EQUIPMENT OR INSTALLED IN ELECTRICAL ROOMS.

T. 2" AND WASTE AND SOIL PIPING SHALL BE SLOPED AT 1/4" PER FOOT AND 3" AND LARGER WASTE AND SOIL PIPING SHALL BE SLOPED AT 1/8" PER FOOT UNLESS OTHERWISE NOTED ON PLANS.

U. ALIGN LAVATORY WALL ROUGH-IN/STUB-OUTS EXACTLY WITH CENTERLINE OF LAVATORIES.

V. ALL STUBS THRU SLAB ARE TO BE RECESSED 1/2" TO ALLOW USE OF LASER SCREED.

W. DO NOT SUSPEND ANY PIPING, ACCESSORIES, OR ANY OTHER ITEMS FROM JOIST IN PANELIZED ROOF SYSTEM OR THE PLYWOOD ROOF DECK ITSELF. ALL SUPPORTS SHALL CONFORM TO TRUSS MANUFACTURERS RECOMMENDATIONS.

X. FLUSH AND DISINFECT ALL POTABLE WATER PIPING PRIOR TO OCCUPANCY.

Y. SUBMIT ACCURATE "AS-BUILT" DRAWINGS TO OWNER UPON PROJECT COMPLETION.

Z. PROVIDE A READY-TO-USE SYSTEM WITH ALL WORK GUARANTEED IN WRITING AGAINST DEFECTIVE WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR MINIMUM FROM OWNER OCCUPANCY UNLESS ARCHITECT SPECIFIES A LONGER WARRANTY TERM.

**FIXTURE LOW-FLOW NOTES**

ALL PLUMBING FIXTURES SHALL BE OF A LOW-FLOW DESIGN WHICH LIMITS THE WATER FLOW NOT TO EXCEED THE FOLLOWING:

WATER CLOSETS: 1.6 GALLONS PER FLUSH  
LAV FAUCETS: 0.5 GALLONS PER MINUTE  
SINK FAUCETS: 2.2 GALLONS PER MINUTE  
SHOWERS: 2.75 GALLONS PER MINUTE

**CODE INFORMATION**

2018 IBC & 2018 IPC.

ALL SYSTEMS SHALL BE IN COMPLIANCE WITH THE ABOVE CODES AND AMENDMENTS AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION.

**PIPING MATERIAL LIST**

**BUILDING WATER SUPPLY**

**PIPING**

A. DOMESTIC WATER SYSTEM PIPING BELOW GRADE OR SLAB ON GRADE SHALL BE TYPE "K" SOFT TEMPER COPPER TUBING.

B. DOMESTIC WATER SYSTEM PIPING ABOVE SLAB ON GRADE SHALL BE TYPE "L" HARD DRAWN COPPER TUBING.

**FITTINGS**

A. FITTINGS FOR COPPER PIPING BELOW GRADE WITH BRAZED JOINTS SHALL BE WROUGHT COPPER (THE SAME THICKNESS AS THE PIPING) FOR SOLDER JOINT-PRESSURE TYPE.

B. FITTINGS FOR COPPER PIPING ABOVE GRADE SHALL BE WROUGHT COPPER OR CAST RED BRASS FOR SOLDER JOINT-PRESSURE TYPE.

**JOINTS**

A. JOINTS FOR COPPER PIPING SYSTEMS 2" AND SMALLER SHALL BE MADE USING 95-5 TIN-ANTIMONY OR APPROVED LEAD FREE SOLDER. (NO 50/50 OR ANY LEAD CONTAINING SOLDER WILL BE PERMITTED ON DOMESTIC WATER PIPING, HOT OR COLD.)

B. JOINTS FOR COPPER PIPING SYSTEMS 2-1/2" AND LARGER ABOVE GRADE SLAB AND ALL SIZES BELOW GRADE SLAB SHALL BE MADE USING SIL-FOS, EASY FLOW, OR PHOS COPPER BRAZING RODS WITH A MELTING TEMPERATURE ABOVE 1000 DEG. F.

**INSULATION**

DOMESTIC HOT WATER PIPING:

A. DOMESTIC HOT WATER PIPING INCLUDING RECIRCULATING PIPING SHALL BE INSULATED WITH 1-INCH THICK FIBERGLASS ONE-PIECE PREFORMED PIPE INSULATION WITH ALL PURPOSE (AS3) FIRE RETARDANT JACKET. FITTINGS SHALL BE FINISHED WITH FITTINGS MASTIC REINFORCED WITH FIBERGLASS FITTING TAPE AND FINISHED TO A SMOOTH SURFACE. HANGERS SHALL BE INSTALLED UNDER THE INSULATION.

**BUILDING WASTE AND VENT SYSTEM PIPING**

A. SOIL, WASTE, AND VENT PIPING BELOW SLAB ON GRADE SHALL BE POLYVINYLCHLORIDE (PVC) SEWER PIPE, SCHEDULE 40.

B. SOIL, WASTE, AND VENT PIPING ABOVE GRADE SHALL BE HUBLESS CAST IRON SOIL PIPE AND FITTINGS CONFORMING TO ASTM STANDARD A-885 AND/OR CISPI STANDARD 301 (LATEST REVISION) AND FEDERAL SPECIFICATIONS WW-P-401E(TYPE III).

**FITTINGS**

A. FITTINGS FOR CAST IRON SANITARY SOIL, WASTE AND VENT PIPING SYSTEM SHALL BE SERVICE WEIGHT CAST IRON DRAINAGE PATTERN CONFORMING TO CISPI STANDARD 301-95, COATED FOR UNDERGROUND INSTALLATION. THREADED CAST IRON DRAINAGE PATTERN FITTINGS TO CONFORM TO ANSI STANDARD B-16.4. FITTINGS SHALL BE PROVIDED TO MATCH THE REQUIRED PIPING SYSTEM.

B. FITTINGS FOR PVC PIPING SYSTEM SHALL BE SCHEDULE 40 DRAINAGE PATTERN, SOLVENT CEMENT TYPE CONFORMING TO ASTM B-2855 OR ELASTOMERIC SEAL TYPE CONFORMING TO ASTM D-3212.

C. TAPPED SANITARY TEES AND CROSSES WILL BE PERMITTED ONLY FOR FIXTURES CONNECTIONS. CROSSES SHALL HAVE THE BARREL OF THE FITTING TWO PIPE SIZES LARGER THAN THE LARGEST BRANCH INLET.

D. VENT FITTINGS INSTALLED BELOW SLAB ON GRADE SHALL HAVE DRAINAGE PATTERN.

**JOINTS**

A. JOINTS ON CAST IRON SOIL WASTE AND VENT SYSTEM BELOW GRADE SLAB SHALL BE GASKETS CONFORMING STRICTLY TO ASTM STANDARD C564, LATEST ISSUE OR NO-HUB SEALING SLEEVES CONFORMING STRICTLY TO ASTM STANDARD C564, CISPI STANDARD 310 (LATEST REVISION), ASTM C1277, AND FEDERAL SPECIFICATIONS WW-P-401.

B. JOINTS ON CAST IRON SOIL WASTE AND VENT SYSTEM ABOVE GRADE SLAB SHALL BE NO-HUB SEALING SLEEVES CONFORMING STRICTLY TO ASTM STANDARD C564, CISPI STANDARD 310 (LATEST REVISION), ASTM C1277, AND FEDERAL SPECIFICATIONS WW-P-401.

C. JOINTS FOR PVC PIPING SYSTEM SHALL BE EITHER SOLVENT CEMENT TYPE CO

**GENERAL NOTE:**

ALL PIPE AND FITTINGS SHALL BE OF DOMESTIC (U.S.) ORIGIN.

**ABBREVIATIONS**

AFF	ABOVE FINISHED FLOOR	G	NATURAL GAS
AFG	ABOVE FINISHED GRADE	GPH	GALLONS PER HOUR
BHP	BRAKE HORSEPOWER	GPM	GALLONS PER MINUTE
BOP	BOTTOM OF PIPE	IN	INCHES
BTU	BRITISH THERMAL UNIT	INV	INVERT
BTUH	BTU PER HOUR	KW	KILOWATT
CA	COMPRESSED AIR	LP	PROPANE
CFH	CUBIC FEET PER HOUR	N	NEW
CFM	CUBIC FEET PER MINUTE	NA	NOT APPLICABLE
CO	CLEANOUT	NC	NORMALLY CLOSED
COP	CLEANOUT PLUG	NIC	NOT IN CONTRACT
COTG	CLEANOUT TO GRADE	NO	NUMBER
D	DRAIN	NO	NORMALLY OPEN
ELEV	ELEVATION	O,S & Y	OUTSIDE SCREW AND YOKE
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
*F	DEGREES FAHRENHEIT	RP	RESIDUAL PRESSURE
FDC	FIRE DEPARTMENT CONNECTION	SP	STATIC PRESSURE
FFE	FINISHED FLOOR ELEVATION	V	VOLTS
PH	FIRE HYDRANT	VAC	VACUUM
FHC	FIRE HOSE CABINET	VTR	VENT THRU ROOF
FT	FEET	WC	WATER COLUMN



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No.	Description	Date

**WEST VALLEY OB-GYN**  
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Phoenix, AZ 85301

Project Number	21066
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Drawn By	AAV
Checked By	AAV

**PLUMBING COVER SHEET**

**P0.0**

Scale As indicated

ELECTRIC WATER HEATER SCHEDULE											
MARK	MAKE	MODEL	STORAGE CAPACITY IN GALS.	ELECTRICAL DATA			GALLON PER HR. REC. @ 80°F T.R.	TANK DIMENSIONS HEIGHT x DIA	PIPE SIZE		REMARKS
				ELEMENT UPPER/LOWER	KW	V <sub>L</sub> /Hz			SIMULTANEOUS OPERATION	CW	
EWH	A.O. SMITH	DEN-120	120	6/6	480/3/60	YES	61	62-7/16x29-38	3/4"	3/4"	1, 2, 3

1. SET OUTLET TEMPERATURE SET TO 140°F.
2. WATER HEATER TO BE MOUNTED WITHIN A WATER HEATER PAN ON A MANUFACTURED PLATFORM.
3. WATER HEATER T&P DRAIN LINE AND PAN DRAIN LINE TO BE ROUTED AS NOTED ON PLAN.

CIRCULATING PUMP SCHEDULE									
MARK	MANUFACTURER	MODEL	LOCATION RM NO.	GPM	HEAD FEET	ELECTRICAL DATA			REMARKS
						WATTS	HP	V <sub>L</sub> /Hz	
CP	GRUNDFOS	UP 15-18BUC7	109	3	12	86	1/25	115/1/60	1, 2, 3, 4

1. PROVIDE WITH AQUASTAT.
2. SET AT SPEED #3.
- 5" DIFFERENTIAL AQUASTAT "HONEYWELL" MODEL L4006B, 120 VOLT SINGLE PHASE.
- PROVIDE WITH DIELECTRIC ISOLATION VALVE & BRONZE FLANGED FITTING.

PLUMBING WASTE & WATER CALCULATIONS							
EXISTING FIXTURES	#	WATER F.U.	WATER TOTAL	WASTE F.U.	WASTE TOTAL	WATER CALCULATION	
WATER CLOSET (FLUSH TANK)	13	5	65	4	52	TOTAL FIXTURE UNITS	179.5
LAVATORY	3	1.5	4.5	1	3	GPM	61
DRINKING FOUNTAIN	1	0.25	0.25	0.5	0.5	EXISTING WATER METER SIZE	1-1/2"
MOP SINK	1	2.25	2.25	2	2	BACKFLOW PREVENTER SIZE	2"
BAR SINK	30	1	30	2	60	PIPE LENGTH IN FEET	
CLOTHES WASHER	1	3	3	3	3	HORIZONTAL PIPE LENGTH	360
SHOWER	2	3	6	2	4	VERTICAL PIPE LENGTH	25
HOSE BIBB	2	2.5	5	0	0	TOTAL PIPE LENGTH	385
FLOOR DRAIN	0	0	0	2	0	FITTING LOSS FACTOR @ 25%	96.25
FLOOR SINK	0	0	0	2	0	EQUIVALENT LENGTH	481.25
WATER PIPE SIZING CRITERIA IN PSI							
STREET PRESSURE							80.00
WATER CLOSET (FLUSH TANK)	7	5	35	4	28	WATER METER LOSS	11.40
LAVATORY	7	1.5	10.5	1	7	BACKFLOW PREVENTER LOSS	15.00
BAR SINK	9	1	9	2	18	STATIC LOSS @ 0.43 PSI/FT VERTICAL	10.75
SHOWER	3	3	9	2	6	FIXTURE LOSS	25.00
FLOOR DRAIN	3	0	0	2	6	PRESSURE AVAILABLE FOR PIPING	17.85
FLOOR SINK	1	0	0	2	2	ALLOWABLE PSI LOSS	3.71
TOTALS			179.5		191.5		
NOTES:				BRANCH PIPE SIZING CHART BASED ON 3.6 PSI DROP PER 100 FT. (PER 2018 IPC FIGURE E103.3(5))			
1. FIXTURE UNIT COUNTS SHOWN ARE FOR PURPOSE OF WATER CALCULATIONS ONLY, AND SHALL NOT BE USED FOR PRICING OR ESTIMATING PURPOSES. REFER TO PLUMBING AND ARCHITECTURAL PLANS FOR FIXTURE COUNTS AND LOCATIONS.				PIPE SIZE 1/2" 3/4" 1" 1-1/4" 1-1/2" 2"			
2. PLUMBING CONTRACTOR SHALL FIELD VERIFY SITE WATER PRESSURE PRIOR TO STARTING ANY WORK. IF PRESSURE VARIES MORE THAN 3 P.S.I. FROM 80 PSI CONTACT THE ARCHITECT.				CW FU (FLUSH TANK) 1 6 15 28 54 187			
				HW FU 1 6 15 28 48 120			
				CW FIXTURE UNITS BASED ON 8 FT/S MAX			
				HW FIXTURE UNITS BASED ON 5 FT/S MAX			

PLUMBING SPECIFICATIONS									
<p><b>WC - WATER CLOSET (FLOOR MOUNTED FLUSH TANK):</b>            FIXTURE: AMERICAN STANDARD 2835.128 "CADET 3 FLOWWISE" FLOOR MOUNTED, 16-1/2" TO RIM, A.D.A. COMPLIANT, VITREOUS CHINA, ELONGATED SIPHON JET BOWL, 12" ROUGH-IN, WITH OVERSIZED 3" FLUSH VALVE, CLOSE COUPLED TANK, EVERCLEAN ANTIMICROBIAL SURFACE, 2-1/8" FULLY GLAZED TRAPWAY, 1.28 GPF HIGH EFFICIENCY ULTRA-LOW CONSUMPTION CERTIFIED IN EPA WATERSENSE PROGRAM. WATTS BV894016K 5/8" X 3/8" OD CHROME PLATED LOOSE KEY QUARTER TURN BALL VALVE STYLE ANGLE STOP WITH 12" FLEXIBLE RISER TUBE AND ESCUTCHEON.            SEAT: AMERICAN STANDARD 5901.110 ELONGATED, HEAVY DUTY WHITE OPEN FRONT SEAT WITH SELF STAINLESS STEEL CHECK HINGE AND EVERCLEAN ANTIMICROBIAL SURFACE. NO COVER.            CONNECTIONS: WASTE - 4", TRAP - INTEGRAL VENT - 2" CW - 1/2"</p>									
<p><b>LAV - LAVATORY (WALL HUNG ADA):</b>            FIXTURE: AMERICAN STANDARD 0355.012 "LUCERNE" 20" X 18" WALL MOUNTED, VITREOUS CHINA LAVATORY WITH D-SHAPED BOWL, FRONT OVERFLOW, SELF-DRAINING DECK AREA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, CONCEALED WALL HANGER AND 4" CENTERSET FAUCET HOLE DRILLINGS, DRILLED FOR CONCEALED ARM CHAIR CARRIERS, ADA COMPLIANT.            SUPPLY FITTING: AMERICAN STANDARD 1340.105.V05 METERING FILLER TAP FAUCET WITH VANDAL RESISTANT SOLID BRASS CONSTRUCTION. UNIT SHALL INCLUDE PUSH HANDLE REQUIRING LESS THAN 5 LBS. ACTIVATION, VANDAL RESISTANT HANDLE AND 0.5 GPM AERATOR, ADJUSTABLE FLOW CYCLE AND 6059400 4" CAST BRASS DECK PLATE.            DRAIN: WATTS 629203C CAST BRASS DRAIN WITH INTEGRAL PERFORATED GRID AND 1-1/4" X 6" TALL PIECE.            SUPPLIES: WATTS BV894016K 5/8" X 3/8" OD CHROME PLATED LOOSE KEY QUARTER TURN BALL VALVE STYLE ANGLE STOPS WITH 16" FLEXIBLE RISER TUBES AND ESCUTCHEONS.            TRAP: WATTS 519-173R 17 GAUGE 1-1/4" X 1-1/2" SEMI-CAST BRASS P-TRAP WITH CLEANOUT.            INSULATION: PLUMBEREX 2003W "HANDY-SHIELD MAXX" UNDER-LAVATORY ADA INSULATOR PROTECTORS FOR INSULATION OF ALL EXPOSED DRAINAGE PIPING INCLUDING HOT, COLD AND TEMPERED WATER SUPPLIES UNDER LAVATORIES PER ADA &amp; IBC. PRODUCT SHALL MEET ADA AND ICC/ANST A11.7. INSULATION MATERIAL SHALL COMPLY WITH ASTM E 84-07/ UL 723 CLASS A AND SHALL BE LISTED AND MEET UPC/IAPMO. INSULATION MATERIAL SHALL BE SOFT 1/8", NON LAMINATED FLEXIBLE PVC WITH U/V INHIBITED ANTIMICROBIAL AND ANTIFUNGAL PROPERTIES. WEEP HOLE FOR SANITARY CONDENSATION DRAINAGE AND VENTILATION AT THE BOTTOM OF 3-BEND.            TV - TEMPERING VALVE:            POWERS E-480-11 COMBINATION POINT-OF-USE TEMPERING VALVE. VALVE SHALL BE CONSTRUCTED OF SOLID BRASS WITH ALL INTERNAL COMPONENTS MANUFACTURED FROM CORROSION RESISTANT MATERIAL. THE VALVE SHALL BE CAPABLE OF OPERATING DOWN TO 0.5 GPM, WITH A MAXIMUM CAPACITY OF 4.0 GPM @ 45 PSI DIFFERENTIAL. CONTROL TEMPERATURE SHALL BE ADJUSTABLE BETWEEN 80° AND 120°F WITH A LOCKING NUT TO PREVENT UNAUTHORIZED OR ACCIDENTAL ADJUSTMENT. THE VALVE SHALL CONTAIN INTEGRAL CHECKS TO PREVENT CROSS FLOW AND INLET SCREENS TO FILTER DEBRIS. UNIT SHALL BE ASSE 1070 LISTED AND CSA B125 CERTIFIED. ROUGH CHROME FINISH WITH 3/8" COMPRESSION INLETS &amp; OUTLETS. CONTRACTOR SHALL INSTALL UNIT BEHIND SINK BOWL AND OUT OF SIGHT TO HELP PREVENT TAMPERING OR VANDALISM.            CONNECTIONS: WASTE - 2" TRAP - 1 1/2" VENT - 1 1/2" CW - 1/2" HW - 1/2"</p>									
<p><b>SK - 1-COMP SINK (COUNTER MOUNTED):</b>            FIXTURE: ELKAY ELUHAZ211550P0 SINGLE COMPARTMENT 18 GAUGE, TYPE 304 18-8 NICKEL-STAINLESS, SELF-RIMMING SINK WITH 300 SERIES STAINLESS STEEL MOUNTING CHANNEL, MODIFIED WITH FAUCET HOLES DRILLED TO FIT TRIM FURNISHED.            FAUCET: KOHLER K-22972 "CURE" PULL DOWN KITCHEN FAUCET, BLACK FINISH.            SUPPLIES: WATTS BV389403 5/8" X 3/8" X 3/8" OD CHROME PLATED LOOSE KEY QUARTER TURN BALL VALVE STYLE COMPRESSION ANGLE STOPS WITH 20" FLEXIBLE RISER TUBES AND ESCUTCHEONS. STRAINER: WATTS 2-5-3 STAINLESS STEEL FLAT GRID STRAINER. TRAP: WATTS 519-173, 1-1/2" SEMI-CAST BRASS, 17 GAUGE P-TRAP WITH CLEANOUT, CHROME FINISH.            CONNECTIONS: WASTE - 2" TRAP - 2" VENT - 2" CW - 1/2" HW - 1/2"</p>									
<p><b>SHR - SHOWER (ADA):</b>            FIXTURE: THE SHOWER SHALL BE TILE, REFER TO ARCHITECTURAL PLANS/DETAILS. THE CONTRACTOR SHALL INSTALL A 2" CAST BRASS CHROME PLATED SHOWER DRAIN &amp; CURTAIN ROD.            SHOWER CONTROL VALVE: POWERS E710-0-0-0-L-0-W THERMOSTATIC &amp; PRESSURE BALANCING SHOWER VALVE WITH INTEGRAL CHECKSTOPS, HIGH LIMIT STOP, C.P. METAL TRIM, 2" SLIDE BAR, 60" METAL HOSE, LOW FLOW (1.5 GPM) HAND SHOWER AND INLINE VACUUM BREAKER. ASSE 1016 AND IAPMO CUPC LISTING. (FIVE YEAR WARRANTY ON INTERNAL TEMPERING MECHANISM).            CONNECTIONS: WASTE - 2" TRAP - 1-1/2" VENT - 1-1/2" CW - 1/2" HW - 1/2"</p>									
<p><b>EXP - EXPANSION TANK:</b>            WATTS MODEL #PL-12, 4.5 TOTAL GALLONS VOLUME. PRE-CHARGE AT 20 PSIG, WITH A MAXIMUM WORKING TEMPERATURE OF 200°. TANK SHALL BE OF DRAWN STEEL CONSTRUCTION AND SHALL HAVE A BUTYL DIAPHRAGM SEPARATING THE AIR CHAMBER FROM THE WATER CONTAINING CHAMBER. INLET CONNECTOR SHALL BE STAINLESS STEEL. DIAPHRAGM SHALL BE FDA APPROVED. LISTED BY IAPMO, CERTIFIED TO ANSI/NSF 61.</p>									
<p><b>IMB - ICE MAKER BOX:</b>            SIOUX CHIEF 696-1 SERIES OXBOX 1/4" COMPRESSION OUTLET CONNECTION OUTLET BOX. UNIT SHALL HAVE VALVE WITH WATER HAMMER ARRESTER. ARRESTER SHALL BE CERTIFIED TO ASSE 1010 AND SHALL BE UPC LISTED. ABS OUTLET BOX AND FRAME.            CONNECTION: CW - 1/2"</p>									
<p><b>FD - FLOOR DRAIN:</b>            WATTS DRAINAGE PRODUCTS FD-100-A5-1-7 WITH 5" ROUND NICKEL BRONZE TOP WITH SURE SEAL IN-LINE FLOOR DRAIN TRAP SEAL.</p>									
<p><b>ES - FLOOR SINK:</b>            WATTS DRAINAGE PRODUCTS FS-710-1-F ENAMELED FLOOR SINK WITH BOTTOM DOME STRAINER WITH SURE SEAL IN-LINE FLOOR DRAIN TRAP SEAL AND 1/2" GRATE.</p>									
<p><b>WCO - WALL CLEANOUT:</b>            WATTS DRAINAGE PRODUCTS CO-590-RD WALL ACCESS COVER WITH BRONZE THREAD PLUG.</p>									



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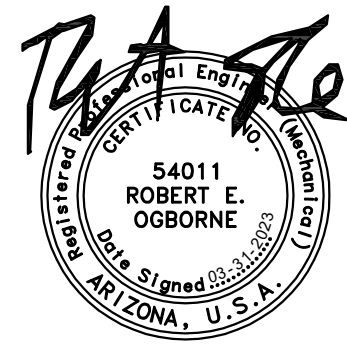
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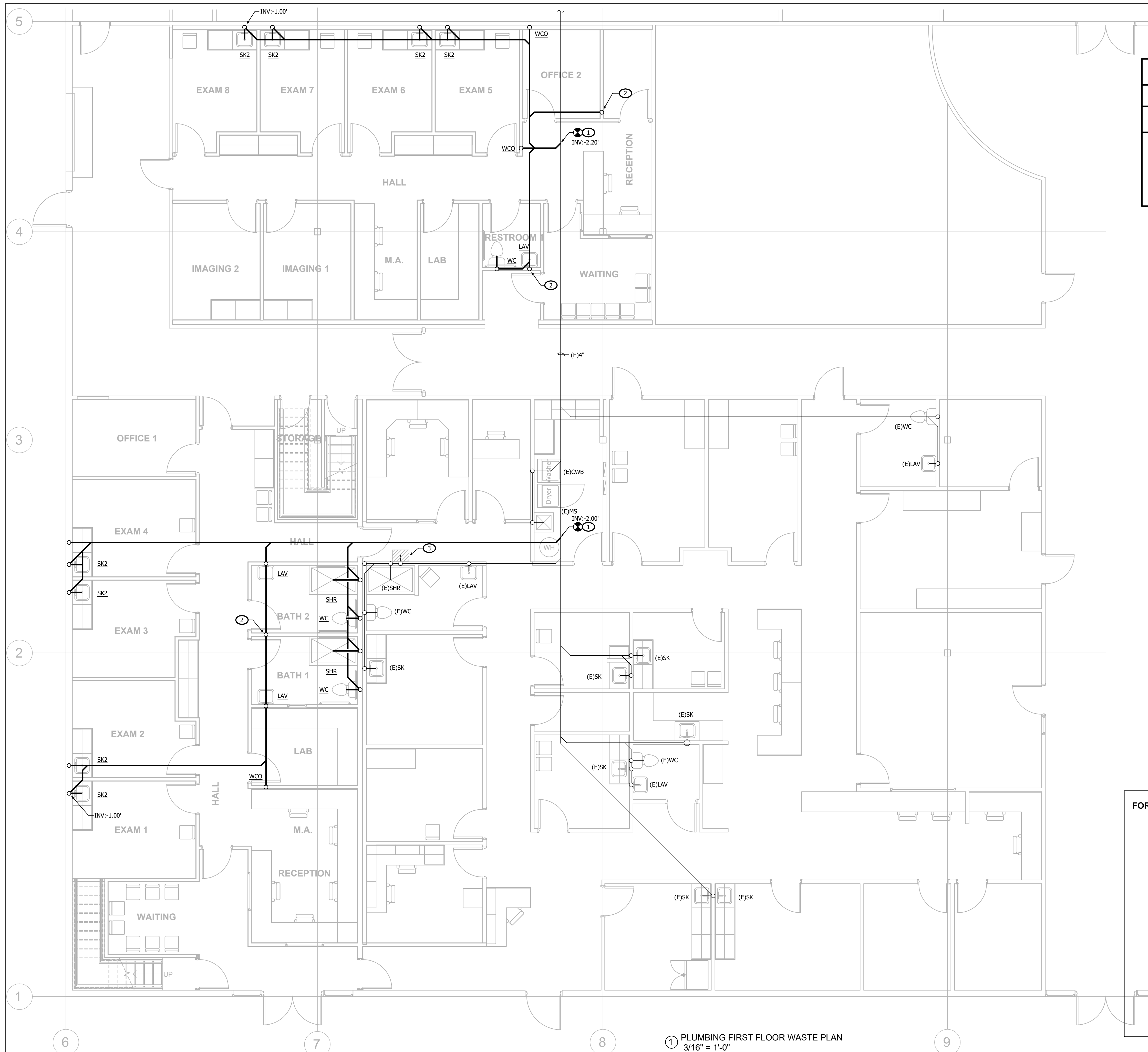
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**PLUMBING SPECIFICATIONS**  
  
**P0.1**  
  
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FOR CITY PURPOSES





**GENERAL NOTES**

A. REFER TO DRAWING P2.0 FOR WASTE & VENT SCHEMATICS.

**KEYED NOTES**

- CONNECT WASTE PIPING TO EXISTING THIS AREA. FIELD VERIFY EXACT LOCATION, SIZE, ROUTING DIRECTION & INVERT.
- WASTE PIPING DOWN FROM 2ND FLOOR TO BELOW SLAB.
- REMOVE EXISTING SINK WITH ALL ASSOCIATED WASTE & VENT PIPING. REMOVE WASTE PIPING BACK TO INSIDE WALL & CAP. SUBMIT SINK TO TENANT & DISPOSE OFF RE-USE PER TENANTS INSTRUCTIONS.



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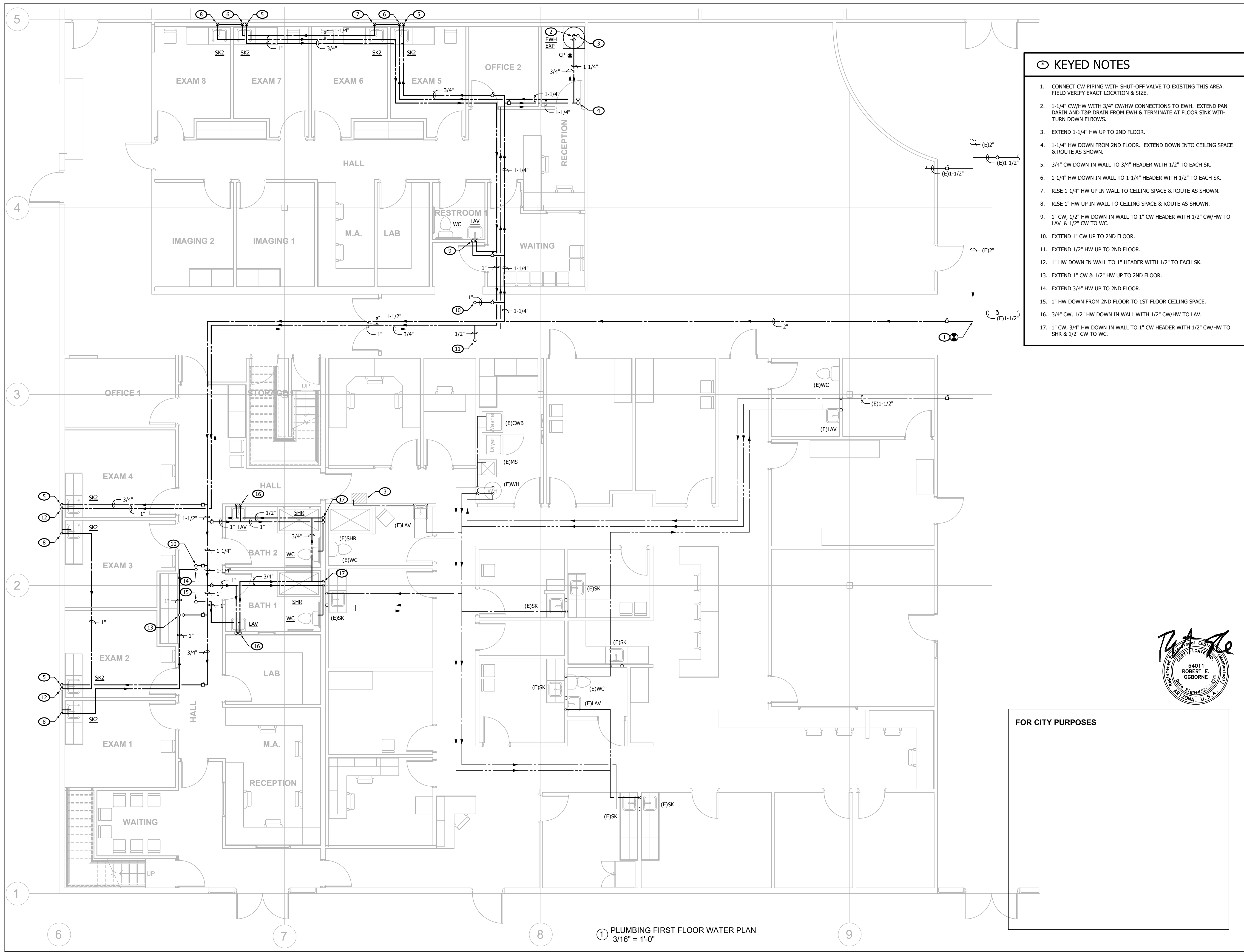
**WEST VALLEY OB-GYN**  
 4338 W. Thomas Rd.  
 Suite #173  
 Phoenix, AZ 85301

Project Number	21066
Date	3/31/23
Drawn By	AAV
Checked By	AAV

**PLUMBING  
 FIRST FLOOR  
 WASTE PLAN  
 P1.1**

Scale As indicated

① PLUMBING FIRST FLOOR WASTE PLAN  
 3/16" = 1'-0"



- KEYED NOTES**
- CONNECT CW PIPING WITH SHUT-OFF VALVE TO EXISTING THIS AREA. FIELD VERIFY EXACT LOCATION & SIZE.
  - 1-1/4" CW/HW WITH 3/4" CW/HW CONNECTIONS TO EWH. EXTEND PAN DRAIN AND T&P DRAIN FROM EWH & TERMINATE AT FLOOR SINK WITH TURN DOWN ELBOWS.
  - EXTEND 1-1/4" HW UP TO 2ND FLOOR.
  - 1-1/4" HW DOWN FROM 2ND FLOOR. EXTEND DOWN INTO CEILING SPACE & ROUTE AS SHOWN.
  - 3/4" CW DOWN IN WALL TO 3/4" HEADER WITH 1/2" TO EACH SK.
  - 1-1/4" HW DOWN IN WALL TO 1-1/4" HEADER WITH 1/2" TO EACH SK.
  - RISE 1-1/4" HW UP IN WALL TO CEILING SPACE & ROUTE AS SHOWN.
  - RISE 1" HW UP IN WALL TO CEILING SPACE & ROUTE AS SHOWN.
  - 1" CW, 1/2" HW DOWN IN WALL TO 1" CW HEADER WITH 1/2" CW/HW TO LAV & 1/2" CW TO WC.
  - EXTEND 1" CW UP TO 2ND FLOOR.
  - EXTEND 1/2" HW UP TO 2ND FLOOR.
  - 1" HW DOWN IN WALL TO 1" HEADER WITH 1/2" TO EACH SK.
  - EXTEND 1" CW & 1/2" HW UP TO 2ND FLOOR.
  - EXTEND 3/4" HW UP TO 2ND FLOOR.
  - 1" HW DOWN FROM 2ND FLOOR TO 1ST FLOOR CEILING SPACE.
  - 3/4" CW, 1/2" HW DOWN IN WALL WITH 1/2" CW/HW TO LAV.
  - 1" CW, 3/4" HW DOWN IN WALL TO 1" CW HEADER WITH 1/2" CW/HW TO SHR & 1/2" CW TO WC.



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**B.E. Designs, LLC.**  
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 623-692-4808

**Owner:**  
**Helen Bouchard-Bujak**  
 4338 W. Thomas Rd.  
 Suite 173  
 623-341-2825

**Contractor:**  
**Phoenix Property Group**  
 15411 W. Waddell Rd.  
 Suite 106  
 Surprise, AZ 85379  
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**PLUMBING  
 FIRST FLOOR  
 WATER PLAN  
 P1.2**

Scale As indicated

1 PLUMBING FIRST FLOOR WATER PLAN  
 3/16" = 1'-0"



GENERAL NOTES	
A.	REFER TO DRAWING P2.0 FOR WASTE & VENT SCHEMATICS.
KEYED NOTES	
1.	DROP WASTE PIPING DOWN TO 1ST FLOOR.

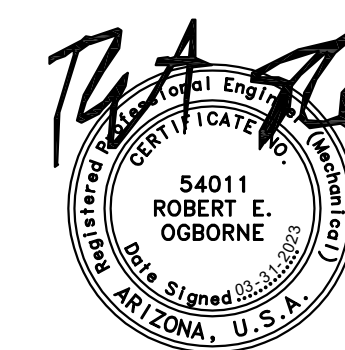


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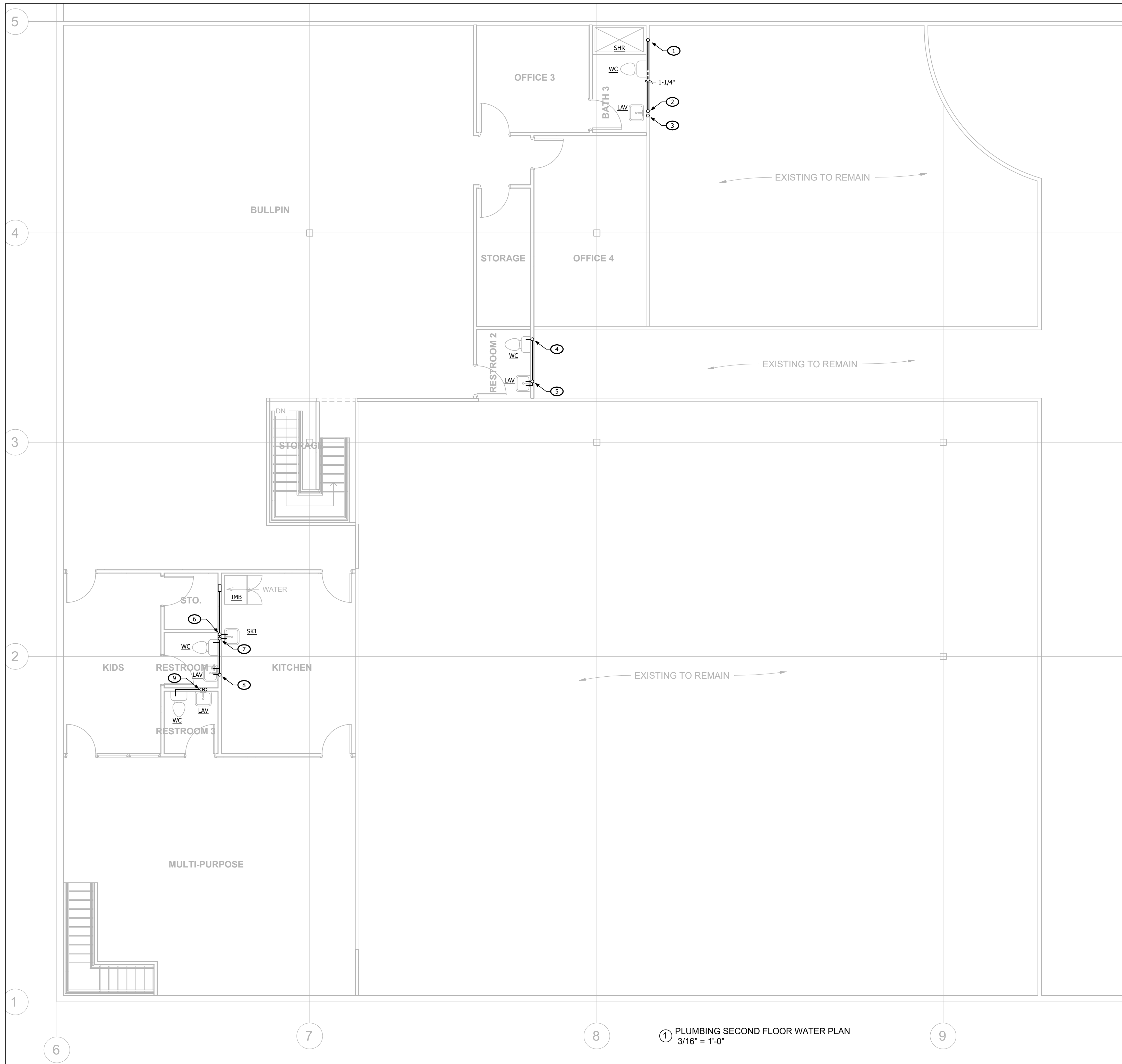
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**PLUMBING  
 SECOND FLOOR  
 WASTE PLAN  
 P1.1**

Scale As indicated

1 PLUMBING SECOND FLOOR WASTE PLAN  
 3/16" = 1'-0"



- KEYED NOTES**
- 1-1/4" HW UP FROM 1ST FLOOR TO 1-1/4" HEADER IN WALL WITH 1/2" TO SHR & LAV.
  - DROP 1-1/4" HW DOWN TO 1ST FLOOR.
  - 1" CW UP FROM 1ST FLOOR TO 1" HEADER IN WALL WITH 1/2" TO SHR & LAV.
  - 1" CW UP FROM 1ST FLOOR TO 1" HEADER IN WALL WITH 1/2" TO WC & LAV.
  - 1/2" HW UP FROM 1ST FLOOR TO LAV.
  - 1" CW UP FROM 1ST FLOOR TO 1" HEADER IN WALL WITH 1/2" TO LAV, WC, SK & IMB FOR REFRIGERATORS CONNECTION.
  - 1" HW UP FROM 1ST FLOOR TO 1" HEADER IN WALL WITH 1/2" TO LAV & SK.
  - DROP 1" HW DOWN TO 1ST FLOOR.
  - 1" CW, 1/2" HW UP FROM 1ST FLOOR TO 1" CW HEADER IN WALL WITH 1/2" CW TO WC & LAV AND 1/2" HW TO LAV.



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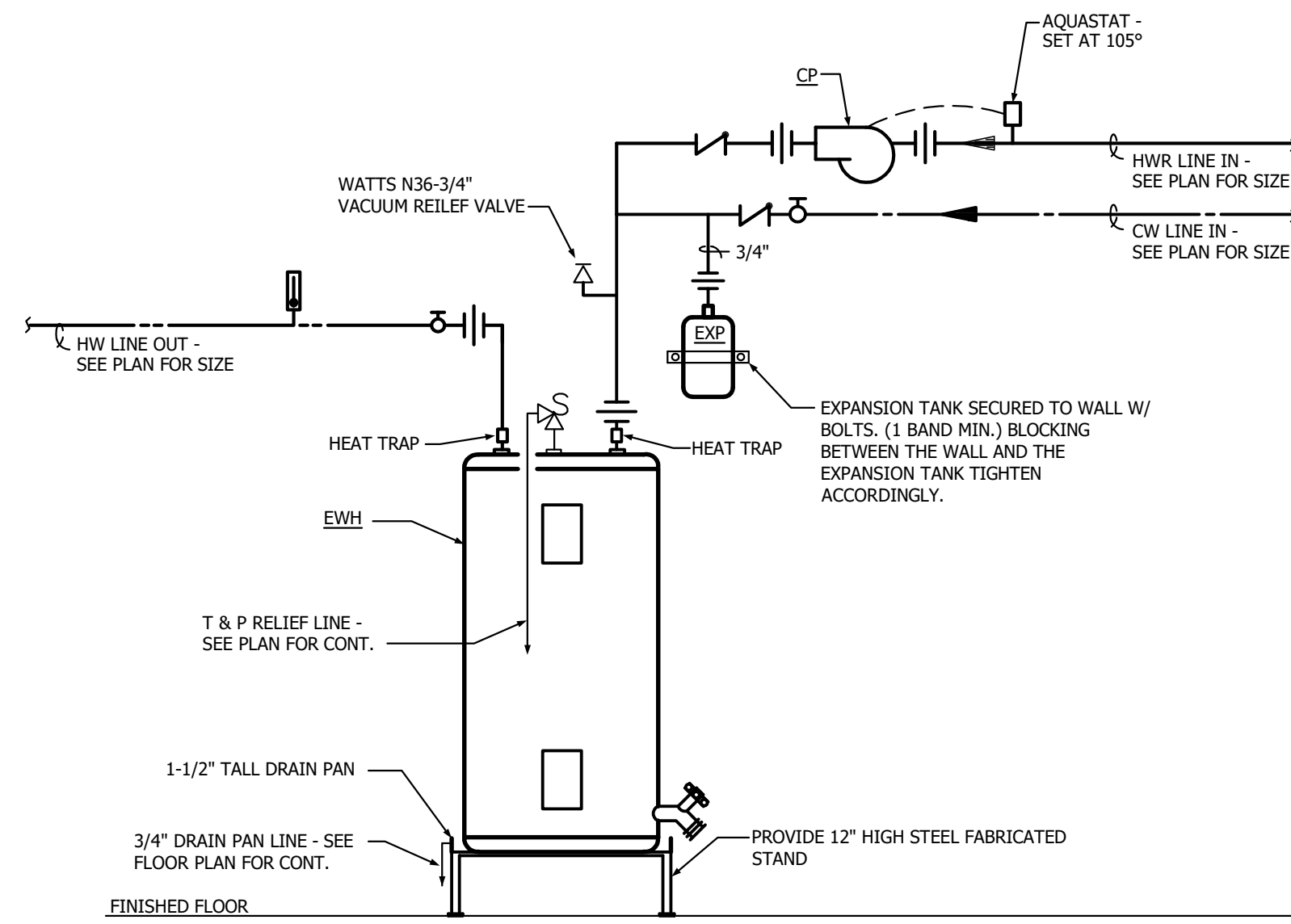
Project Number	21066
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**PLUMBING  
 SECOND FLOOR  
 WATER PLAN  
 P1.2**

Scale As indicated

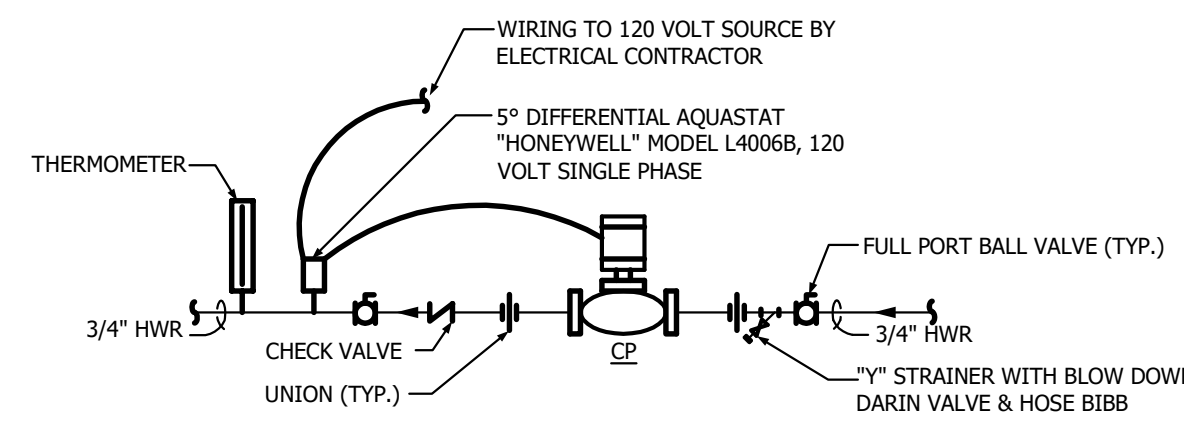
1 PLUMBING SECOND FLOOR WATER PLAN  
 3/16" = 1'-0"





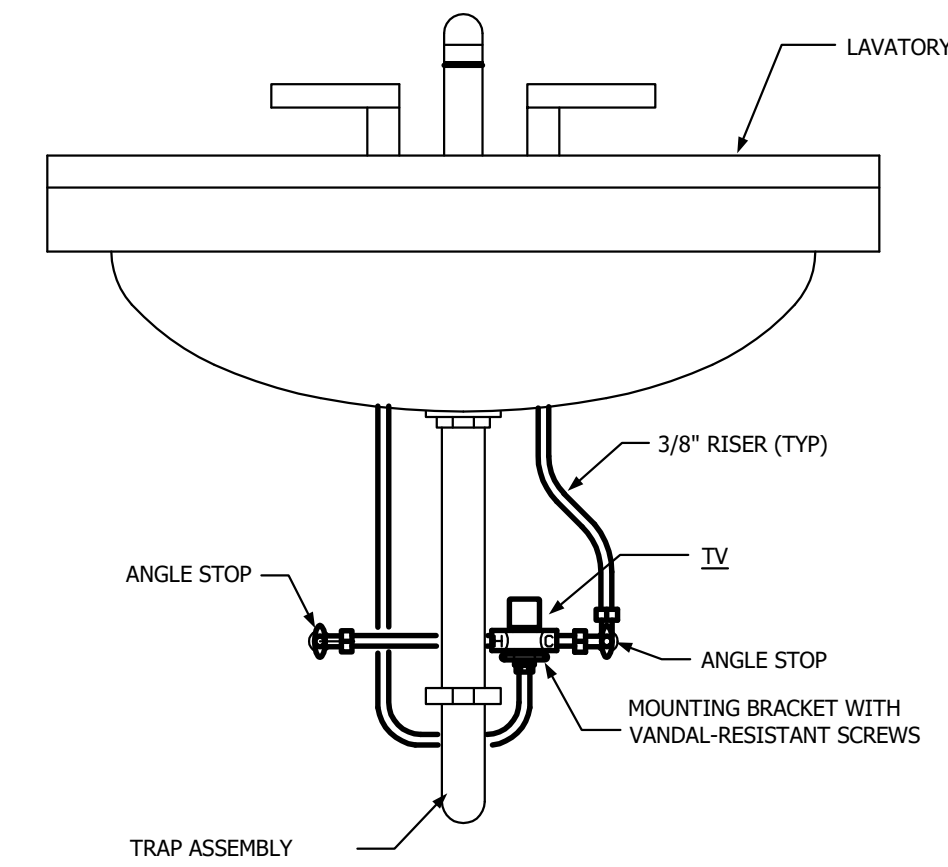
ELECTRIC WATER HEATER DIAGRAM

1



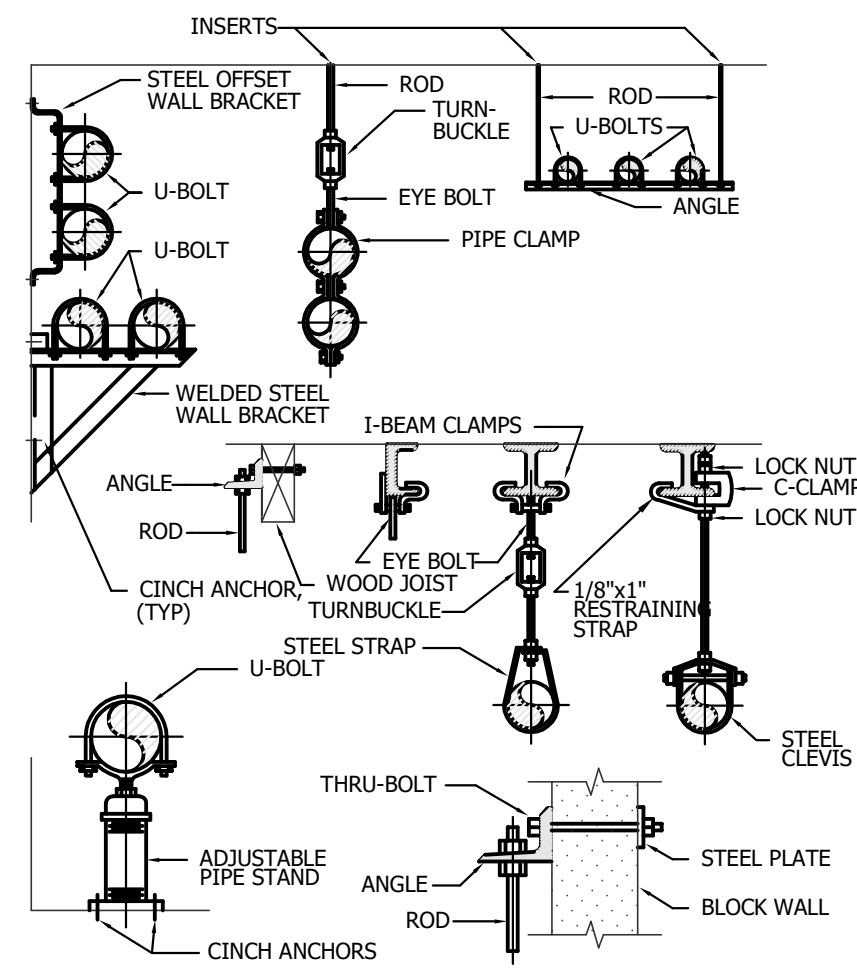
RECIRCULATING PUMP DETAIL

2



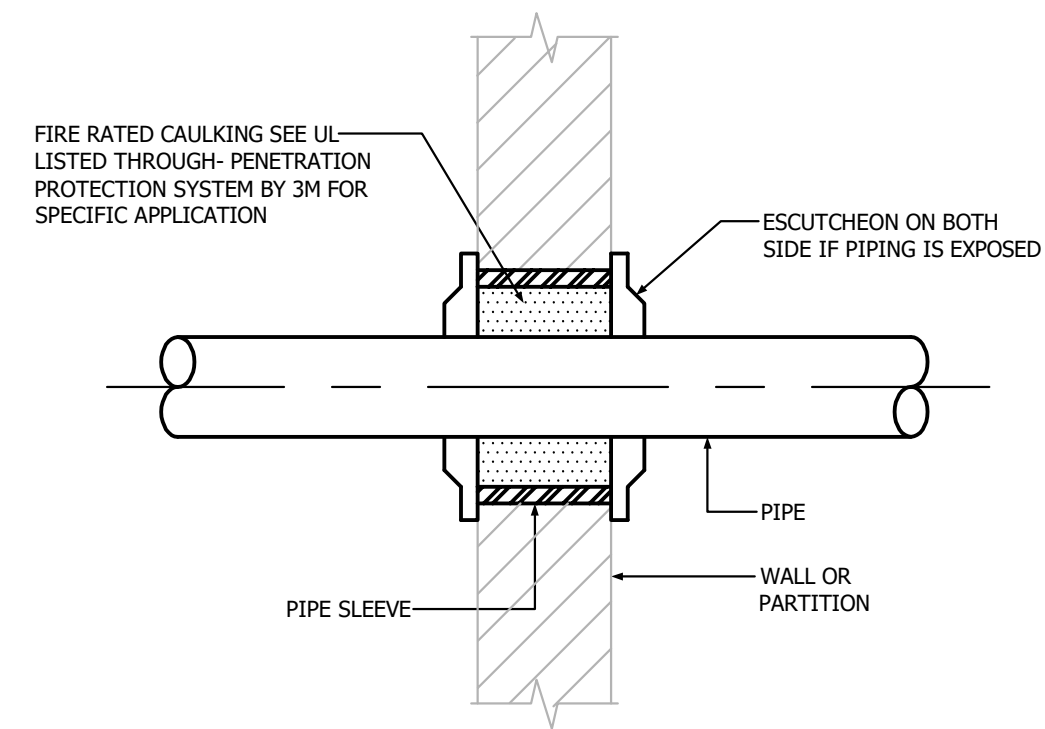
POINT OF USE MIXING VALVE INSTALLATION DETAIL

3



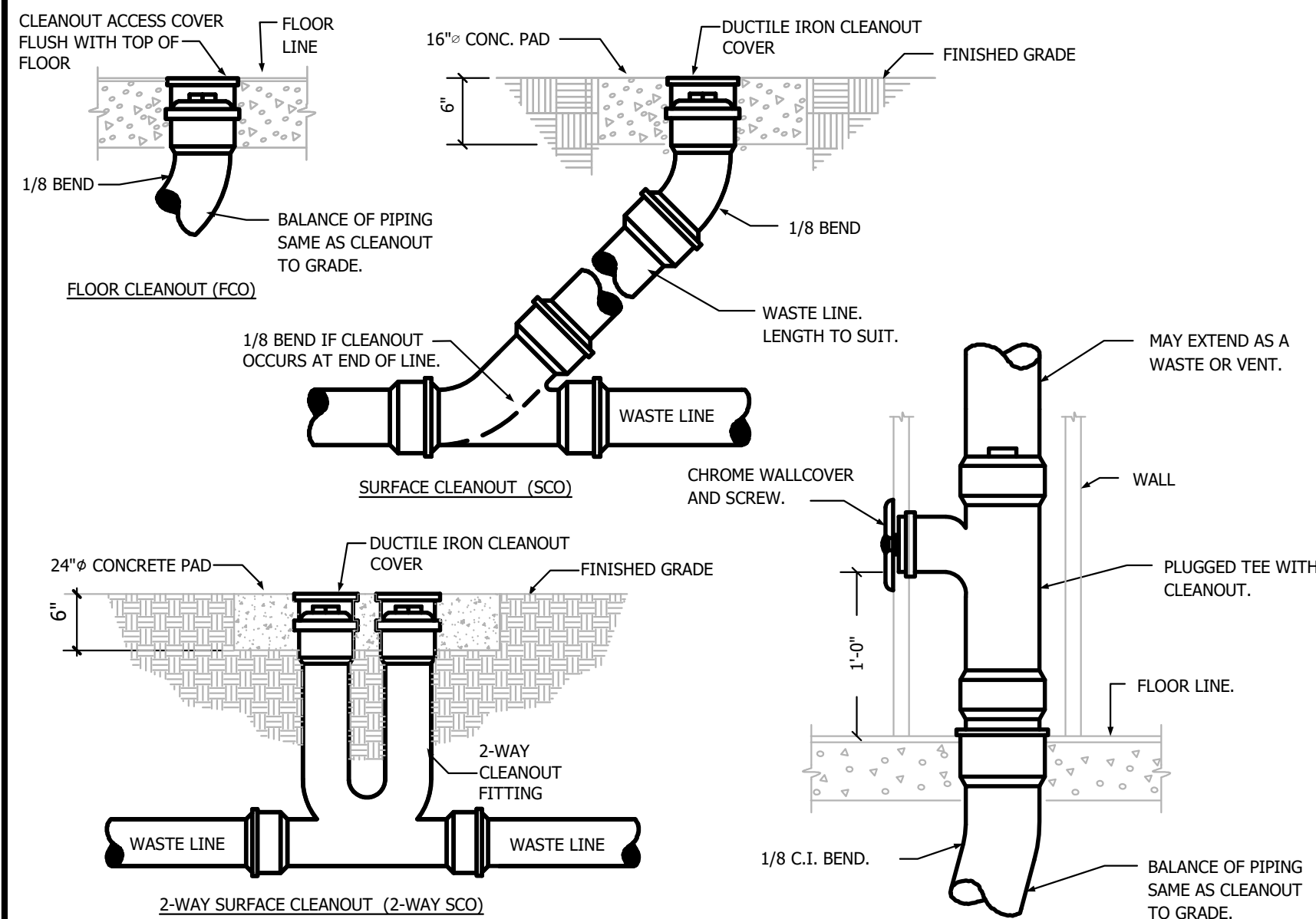
TYPICAL PIPE SUPPORT DETAILS

4



PIPE PENETRATION THROUGH FIRE RATED BARRIER

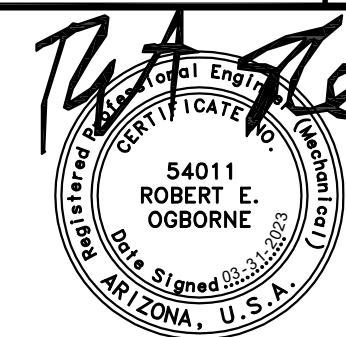
5



CLEANOUT DETAILS

6

NOTE:  
ALL PENETRATIONS OF FIRE-RESISTIVE FLOORS, WALLS, OR PARTITIONS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS THAT CONFORM TO UNDERWRITERS LABORATORIES LISTINGS FOR "THROUGH-PENETRATION FIRE STOP SYSTEMS". THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS, FURNISHED BY THE MANUFACTURER OF THE FIRE STOP MATERIAL, WHICH SHOW COMPLETE CONFORMANCE TO THE U.L. LISTING TO THE ARCHITECT, AND SUCH DRAWINGS SHALL BE SUBMITTED TO THE CITY INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION, WITH ALL VARIABLES DEFINED. THROUGH PENETRATION FIRE STOPS SHALL CONFORM TO USC CHAPTER 7. SEE ARCHITECTURAL DRAWINGS FOR RATINGS OF FIRE RESISTIVE WALLS, FLOOR/CEILING AND CEILING/ROOF ASSEMBLIES.



FOR CITY PURPOSES



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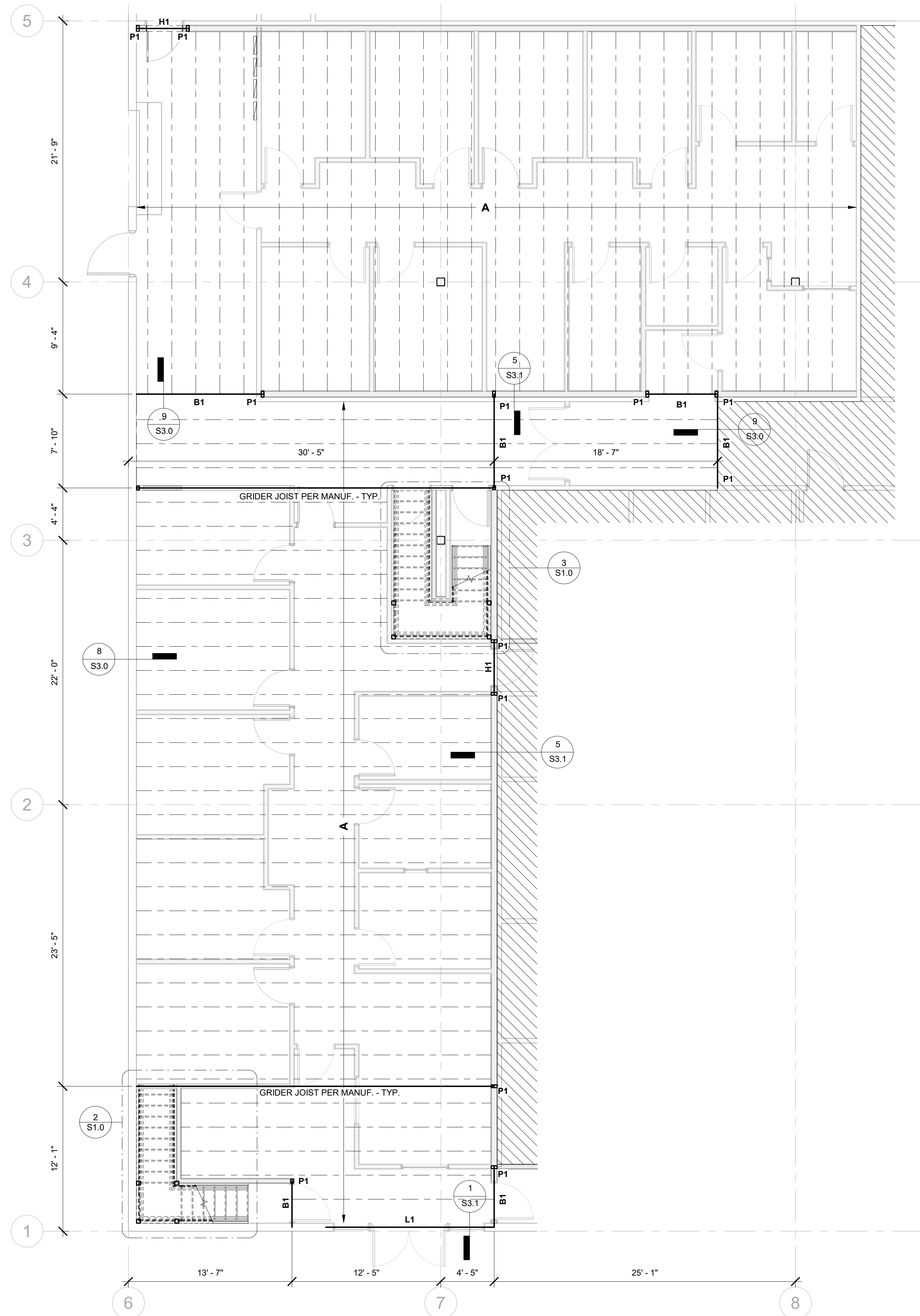
Project Number	21066
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Checked By	AAV

PLUMBING  
DETAILS

P3.0

Scale As indicated





1 FLOOR FRAMING PLAN  
3/16" = 1'-0"

**CONSTRUCTION NOTES**

- I. COORDINATE ALL WORK WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- II. CONTRACTOR AND SUB-CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS, LOCATIONS, AND PROJECT REQUIREMENTS PRIOR TO SUBMITTING A BID.
- III. CONTRACTOR AND SUB-CONTRACTORS SHALL FIELD VERIFY DIMENSIONS, AND FAMILIARIZE THEMSELVES WITH PROJECT REQUIREMENTS PRIOR TO COMMENCING WITH THE WORK. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO ARCHITECT.
- IV. WORK SHALL INCLUDE ALL REQUIRED PERMITS, LABOR, MATERIALS, AND EQUIPMENT TO COMPLETE ALL WORK INDICATED ON DRAWINGS AND AS NECESSARY FOR A COMPLETE PROJECT.
- V. ALL PAINTING SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ADJACENT FINISHES AND CLEANUP.
- VI. CONTRACTOR IS RESPONSIBLE FOR FINAL CLEANUP OF WORK AREA AND ALL EXPOSED BUILDING SURFACES AT SUBSTANTIAL COMPLETION.
- VII. ALL TRASH AND TOOLS SHALL BE REMOVED FROM PREMISES EACH DAY AND THE AREA LEFT CLEAN WHENEVER UNATTENDED. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP. COORDINATE WITH OWNER IF SECURE STORAGE IS NEEDED ONSITE.
- VIII. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO FINISHED SURFACES, EQUIPMENT, FURNITURE, EXISTING MATERIALS OR FINISHES, CAUSED AS A RESULT OF HIS WORK. REPAIR OR REPLACE DAMAGED ITEMS AS DIRECTED BY ARCHITECT.
- IX. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.

**FLOOR FRAMING SCHEDULE:**

- A** VERCO 24K4 OPEN WEB STEEL JOISTS AT 24" O.C. OR PER JOIST MANUFACTURER. JOIST BRIDGING PER MANUFACTURER.
- FLOOR DIAPHRAGM SHALL BE 1 1/8" STRUCUTRAL 1 PLYWOOD. STAGGER SHEATHING JOINTS. SCREW JOISTS W/ #10 SELF-TAPPING SCREWS 6" O.C. AT ALL PLYWOOD PANEL EDGES AND 12" O.C. ELSEWHERE (FEILD).

**BEAM SCHEDULE:**

- B1** 5 1/8" X 12" CLULAM (DF24F-V8)

**POST SCHEDULE:**

- P1** DOUBLE LIGHT GAUGE STUD - SEE DETAIL XXX

**HEADER SCHEDULE:**

- H1** (2) 600S250-68 STUDS W/ DOUBLE STUD END SUPPORT - SEE DETAIL XXX

**LINTEL SCHEDULE:**

- L1** POWER STEEL PS8-24 LINTEL - SEE DETAIL XXX

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Checked By	BJE

**FLOOR FRAMING PLAN**

**S2.0**

Scale As indicated



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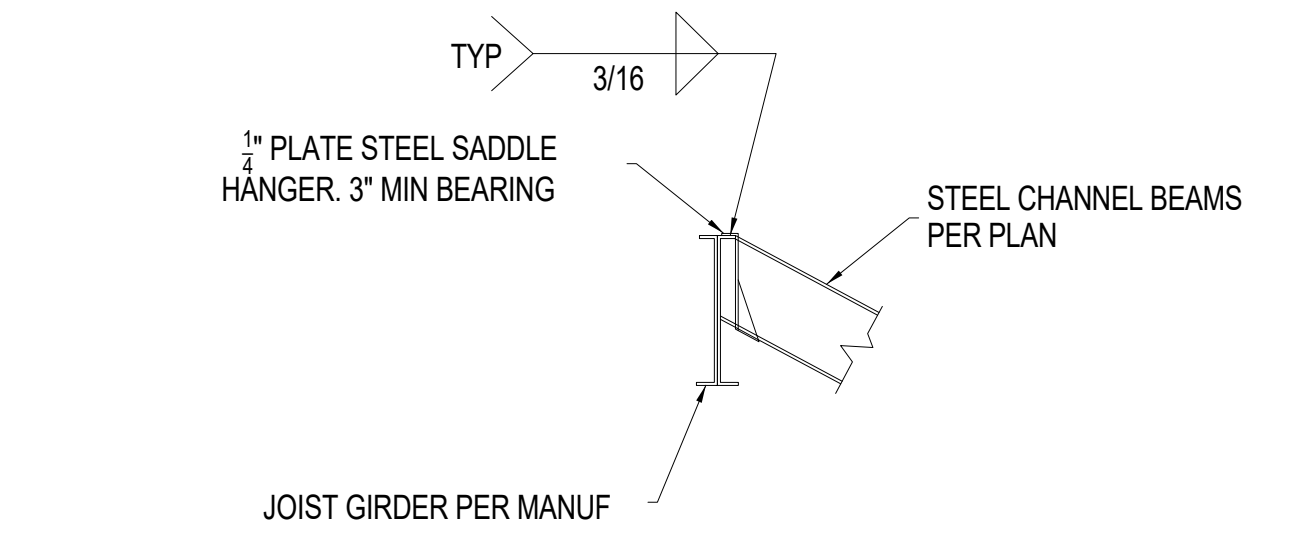
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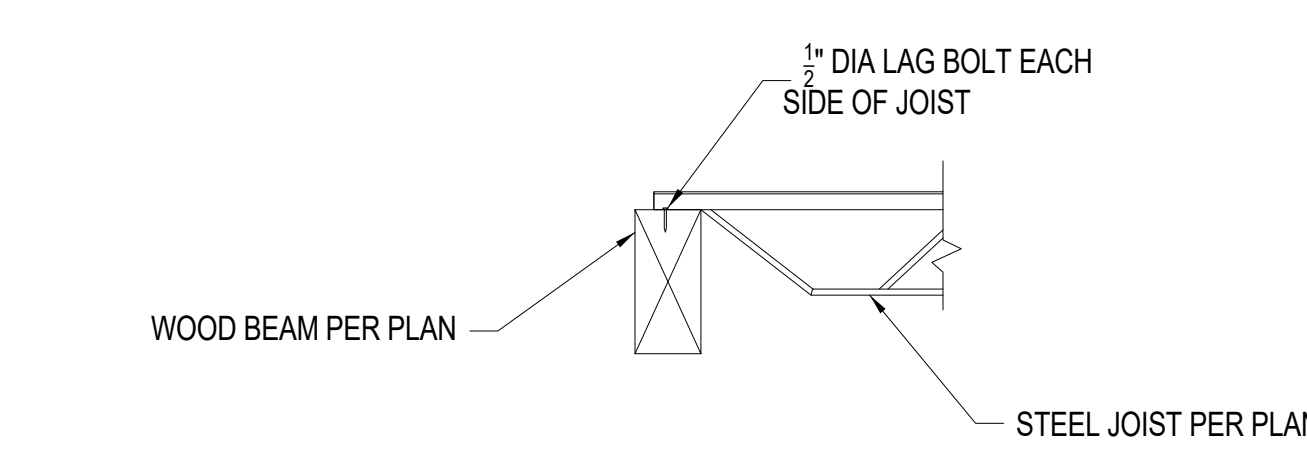
**STRUCTURAL DETAILS**

**S3.0**

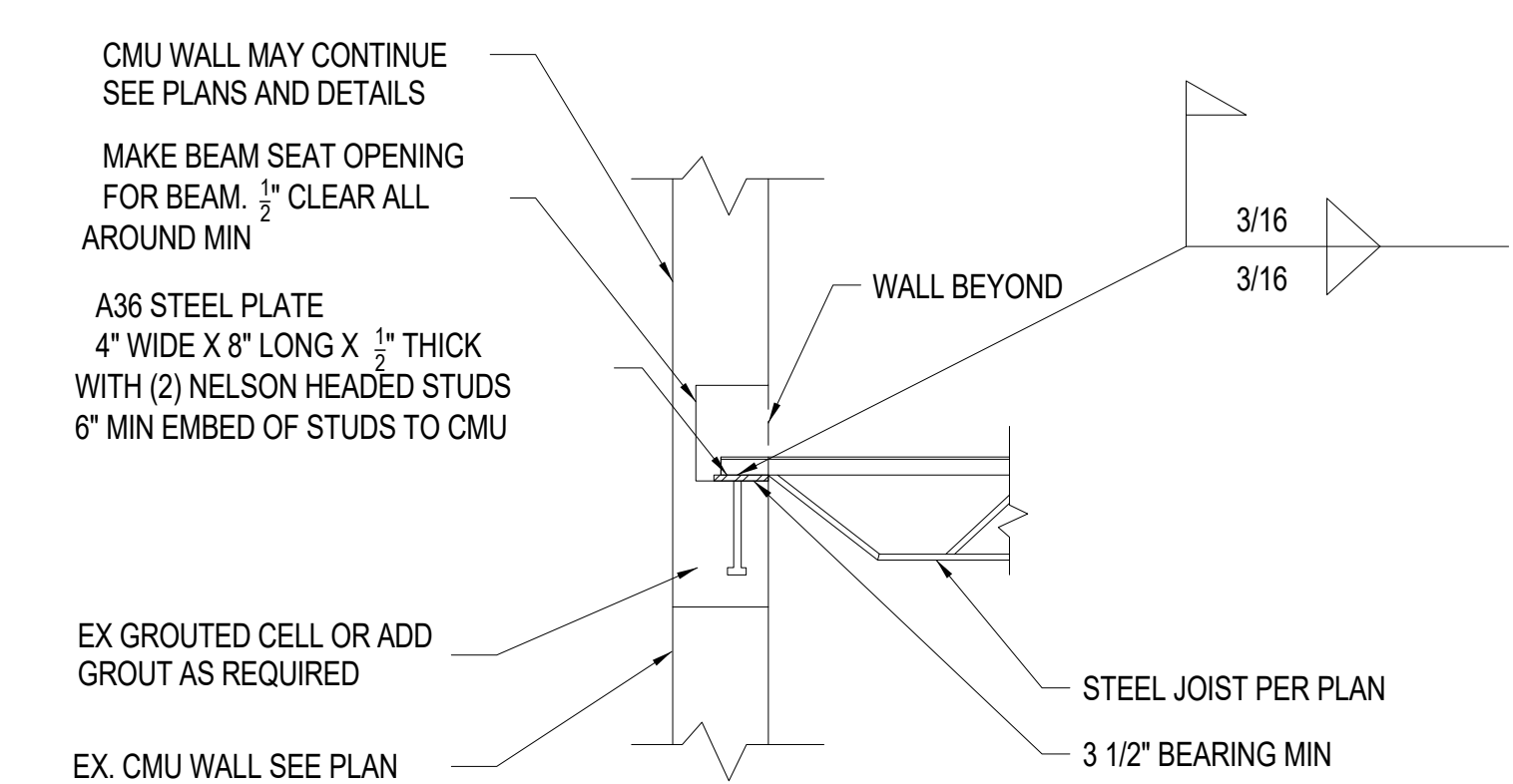
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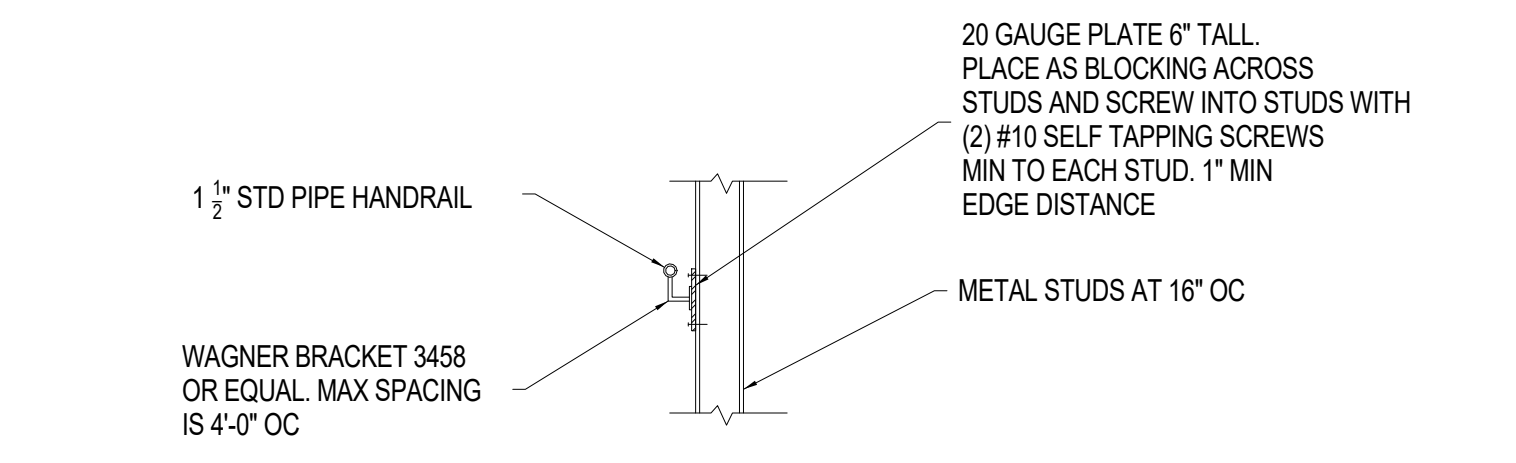
10 STEEL CHANNEL TO STEEL JOIST GIRDER  
 3/8" = 1'-0"



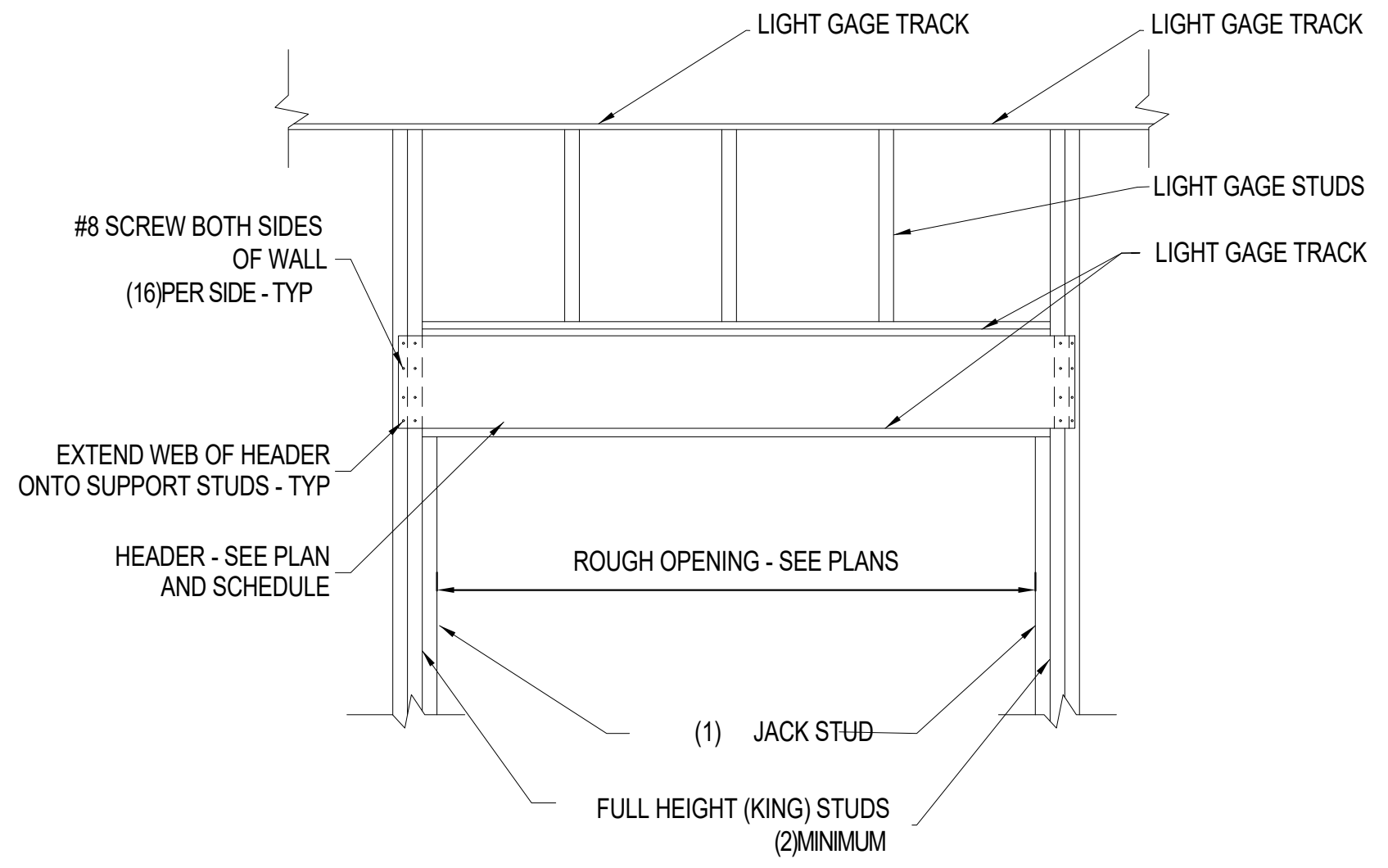
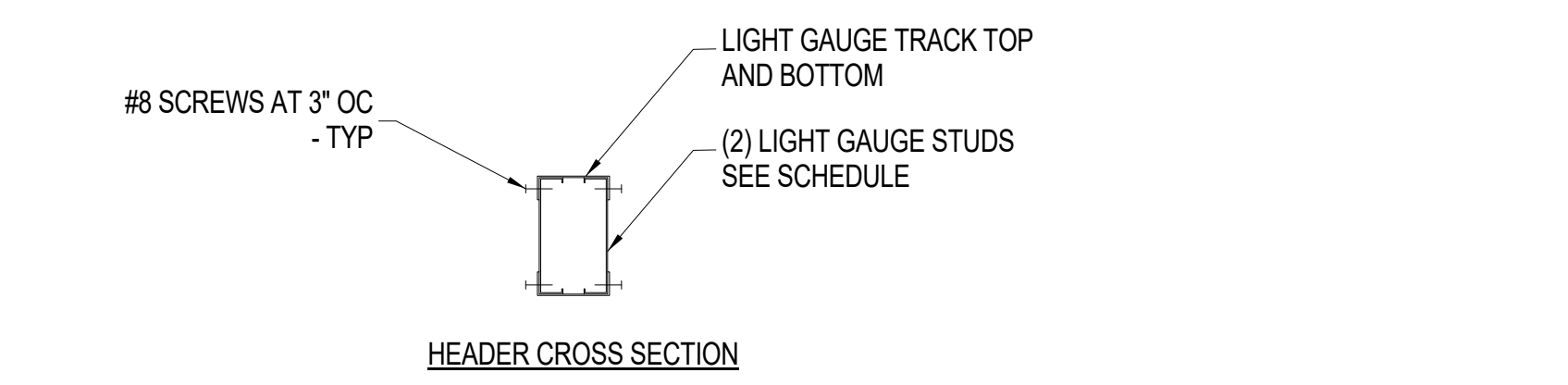
9 STEEL JOIST TO WOOD BEAM  
 3/4" = 1'-0"



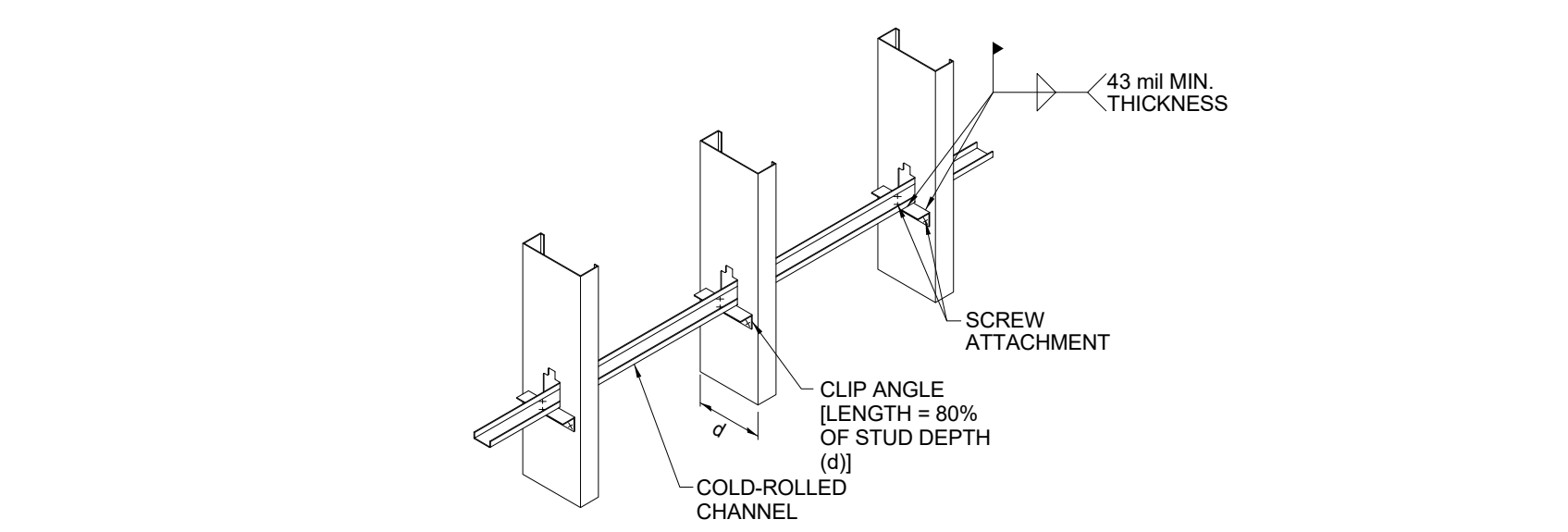
8 STEEL JOIST TO CMU WALL  
 3/4" = 1'-0"



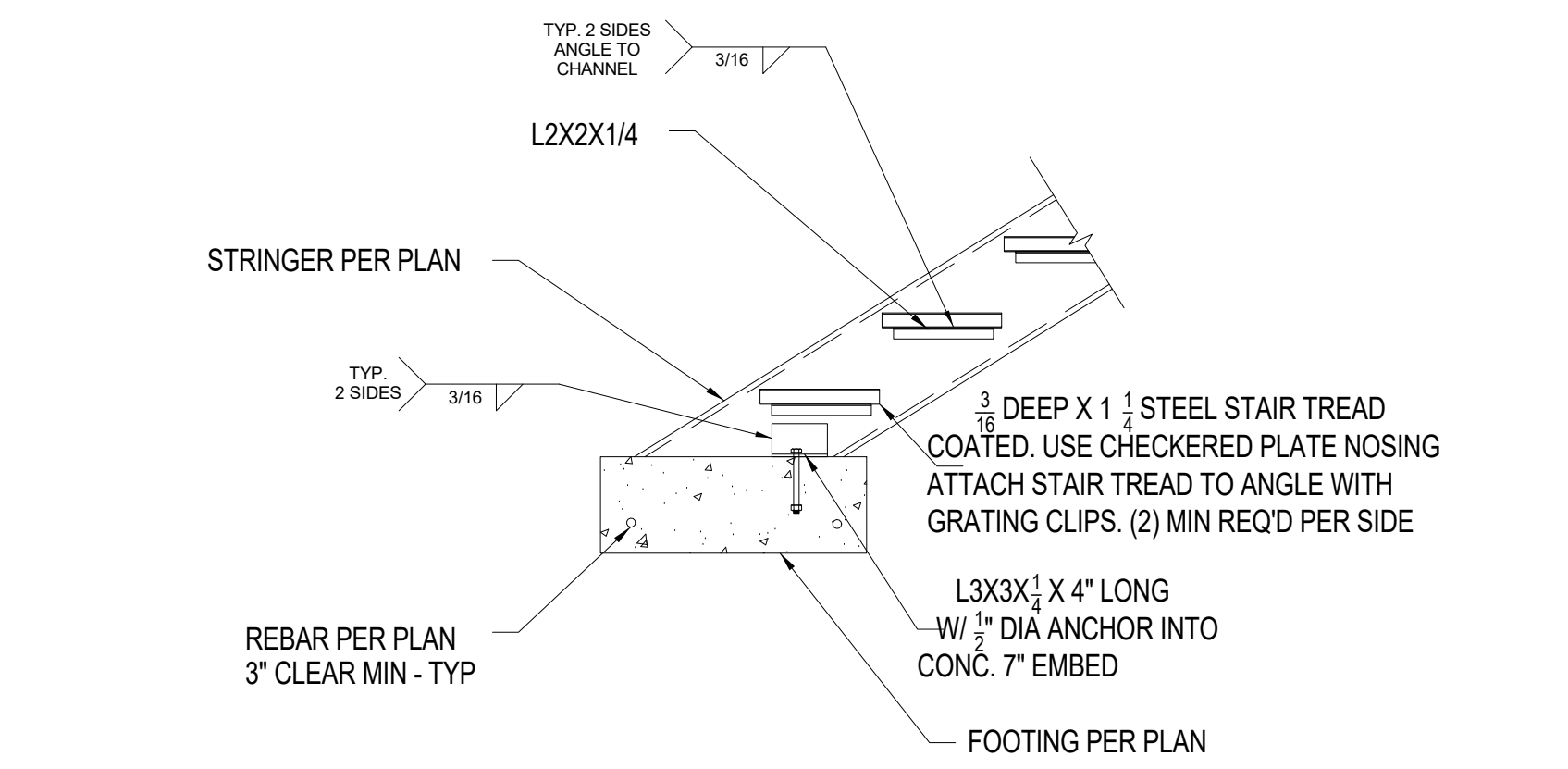
7 HANDRAIL TO STEEL STUD WALL  
 1/2" = 1'-0"



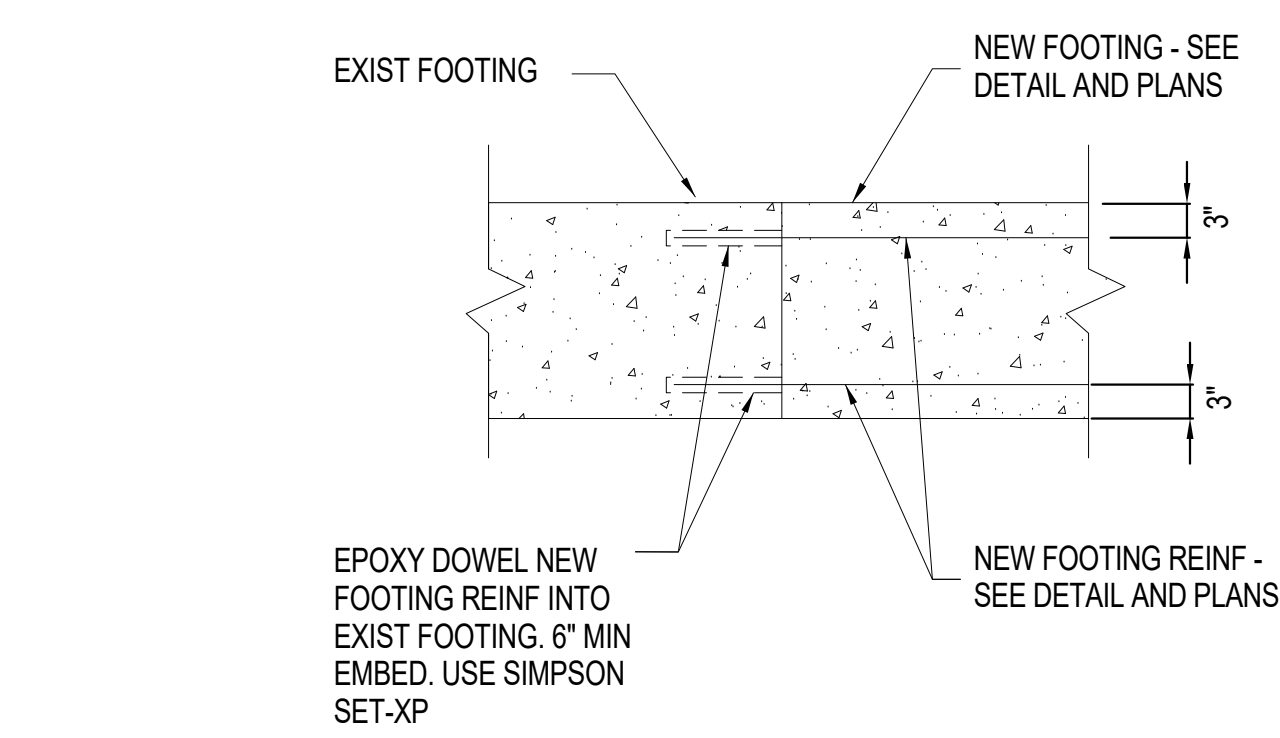
6 TYPICAL LIGHT GAUGE HEADER SCREWS  
 3/4" = 1'-0"



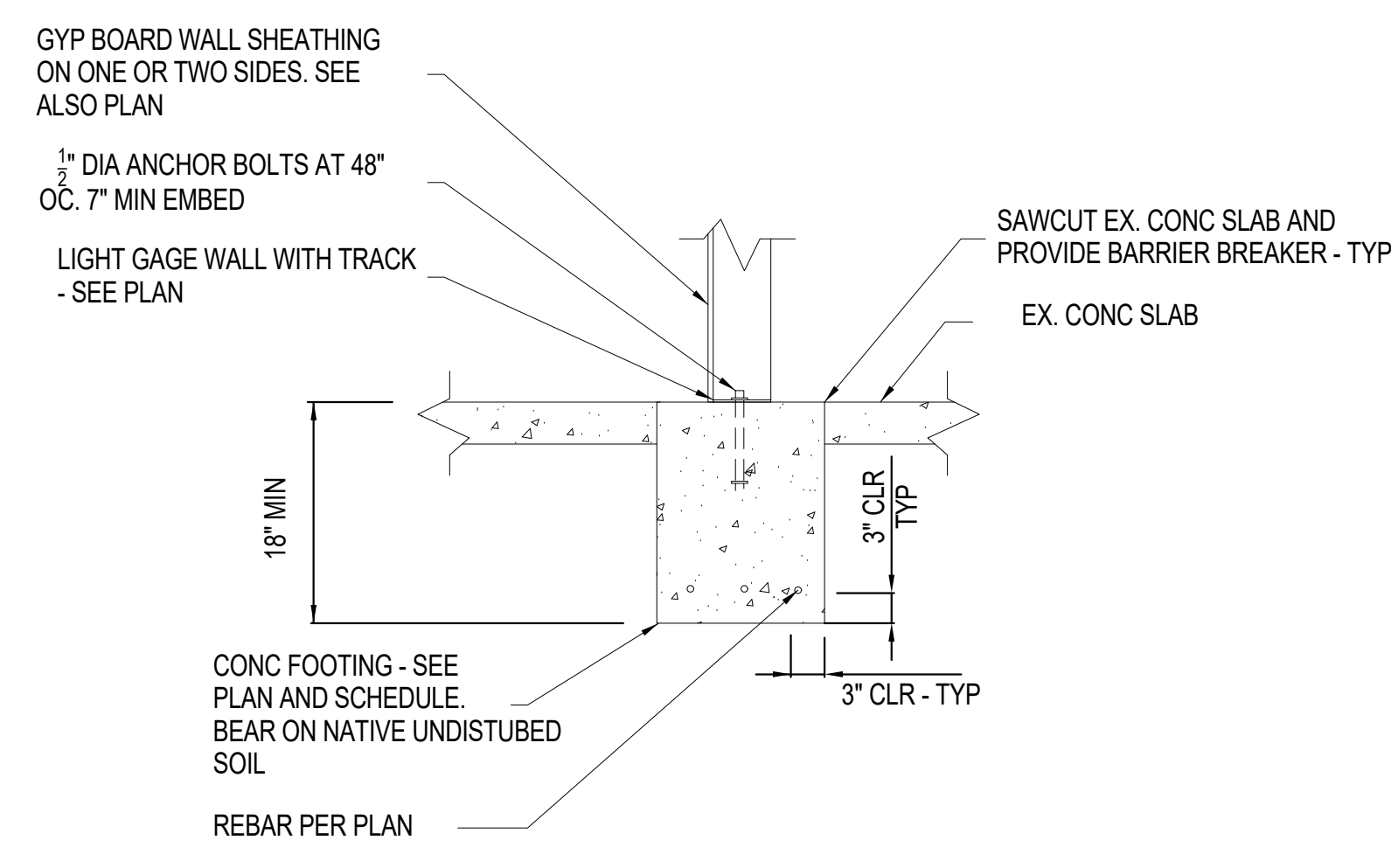
5 LIGHT GAUGE STUD BRIDGING  
 3/4" = 1'-0"



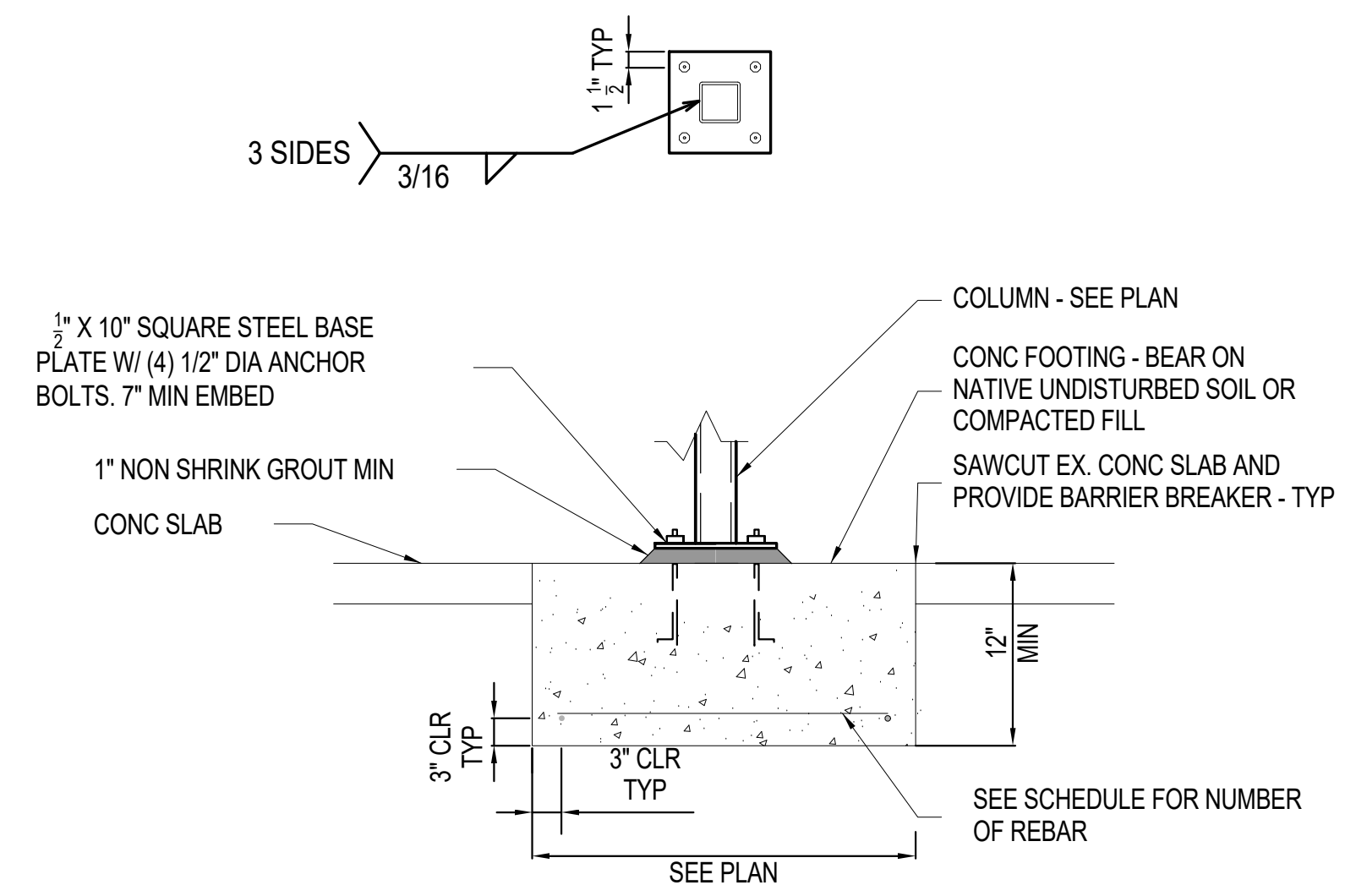
4 STEEL STAIR STRINGER TO FOOTING  
 3/4" = 1'-0"



3 NEW FOOTING TO EXISTING FOOTING  
 3/4" = 1'-0"



2 TYPICAL WALL FOOTING SAWCUT LIGHT GAUGE  
 3/4" = 1'-0"



1 TYPICAL SPREAD FOOTING  
 3/4" = 1'-0"

