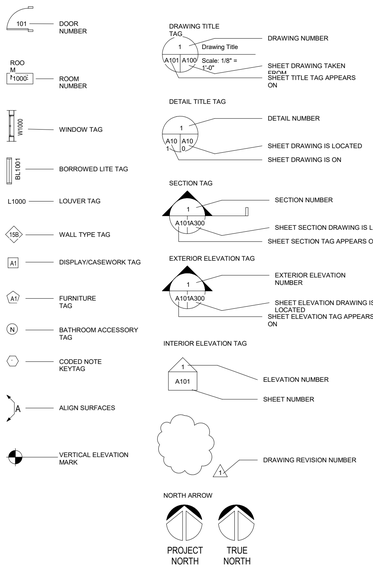
CINCINNATI METROPOLITAN HOUSING AUTHORITY
HAIR SALON

1504 & 1506 LINN STREET, CINCINNATI, OH 45214

SYMBOLS

REFERENCE SYMBOLS LEGEND



ABBREVIATIONS

'G	WORD + ING
A.F.F.-	ABOVE FINISHED FLOOR
ACT.-	ACOUSTICAL CEILING TILE
ADA.-	AMERICANS WITH DISABILITIES ACT
ADD'L.-	ADDITIONAL
ADJ.-	ADJUSTABLE
ALUM.-	ALUMINUM
ANSI.-	AMERICAN NATIONAL STANDARDS INSTITUTE
ASTM.-	AMERICAN SOCIETY FOR TESTING AND MATERIALS
B&B-	BALLED AND BURLAPPED
B/-	BOTTOM OF
BD.-	BOARD
BLDG.-	BUILDING
BLKG.-	BLOCKING
BOC.	BACK OF CURB
BOS.	BOTTOM OF STEEL
BTM.	BOTTOM
BTWN.	BETWEEN
BYND	BEYOND
C.P.	CENTER POINT
CAL.	CALIPER
CAL.	CALIPER
CFMF	COLD FORMED METAL FRAMING
CL.	CENTER LINE
CLG	CEILING
CM	CONSTRUCTION MANAGEMENT
CONSTR	CONSTRUCTION
CRS.	COURSING
CT.	CERAMIC TILE
CTB	CERAMIC TILE BASE
CTR	CENTER
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DN	DOWN
DR	DOOR
DTL.	DETAIL
DWG. (S.)	DRAWING (S)
DWR	DRAWER
EL.	ELEVATION
EQUIP	EQUIPMENT
EXIST	EXISTING
EXP.	EXPOSED
EXT	EXTERIOR
F.N.D.	FEMININE NAPKIN DISPENSER
F.N.R.	FEMININE NAPKIN RECEPTACLE
FIN	FINISH (ED)
FLR	FLOOR
FOC	FACE OF CURB
G.B.	GRAB BAR
GA	GAUGE
GALV	GALVANIZED
GYP.	GYPSUM
H.P.	HIGH POINT
HB	HOSE BIB
HDW.	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HPL	HIGH PRESSURE LAMINATE
HRS	HOURS
HT	HEIGHT
ID	INSIDE DIAMETER
IN. DIA	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
L.B.	LOAD BEARING
L.F.	LINEAL FEET
M.R.	MOISTURE RESISTANT
MAINT	MAINTENANCE
MAT	MATERIAL
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MH.	MANHOLE
MIN	MINUTES
MIN	MINIMUM
MTL.	METAL
MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
N.I.C.	NOT IN CONTRACT
N/A	NOT APPLICABLE
NLB	NOT LOAD BEARING
NTS.	NOT TO SCALE
O.C.	ON CENTER
O.H.	OPPOSITE HAND
OD.	OUTSIDE DIMENSION
OPNG	OPENING
PCP	PORTLAND CEMENT PLASTER
PLAM	PLASTIC LAMINATE
PREP	PREPARE
PROP	PROPERTY
PSI	POUNDS PER SQUARE INCH
PT.	POINT
QT	QUARRY TILE
QTB	QUARRY TILE BASE
QTY	QUANTITY
R	RADIUS
RAD	RADIUS
RB	RUBBER BASE
REC	RECOMMEND/ RECOMMENDED
RECP	RECEPTION
REF	REFRIGERATOR
REINF	REINFORCING
RM	ROOM
RMS	ROOMS
RT	RUBBER TREAD
S.C.D.	TOILET SEAT COVER DISPENSER
S.F.	SQUARE FOOT
S.S.	STAINLESS STEEL
SC	SEALED CONCRETE
SCH	SCHEDULE
SCHED	SCHEDULE
SHF.	SHELF
SIM	SIMILAR
SPECS	SPECIFICATIONS
SQ	SQUARE
STD	STANDARD
STL.	STEEL
STN	STAINLESS
STRUCT	STRUCTURE / STRUCTURAL
T.O.S.	TOP OF STEEL
T.P.	TOILET PARTITION
T.T.D.	TOILET TISSUE DISPENSER
T/	TOP OF
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
U.O.N.	UNLESS OTHERWISE NOTED
VCT	VINYL COMPOSITE TILE
VERT	VERTICAL
VRB	VENTED RUBBER BASE
VSF	VINYL SHEET FLOORING
W.C.	WATER CLOSET
W/	WITH
WD	WOOD
WF	WOOD FLOORING

PROJECT INDEX

DRAWING NO.	SHEET DESCRIPTION
ARCHITECTURAL	
A001	COVER SHEET
A101	FIRST FLOOR PLAN
A401	WALL TYPES & DETAILS
A402	DETAILS
A403	DETAILS
A501	ROOM FINISH SCHEDULE
A502	DOOR SCHEDULE & DETAIL
A801	INTERIOR ELEVATIONS
HVAC	
H-1	HVAC - FLOOR PLAN & NOTES
H-2	HVAC - SCHEDULES & NOTES
ELECTRICAL	
E-1	FIRST FLOOR LIGHTING & POWER PLANS/SPECIFICATIONS
E-2	RISER DIAGRAM/PANEL SCHEDULE/LOAD CALCULATION

OCCUPANCY NOTES

1. THE OWNER OPERATOR OF THE HAIR SALON AGREES TO NOT HAVE MORE THAT 23 OCCUPANTS IN THE SPACE AT ANY ONE TIME. THE CERTIFICATE OF OCCUPANCE SHOULD BE ISSUED STATING THE NUMBER OCCUPATS TO BE 23.
2. NO EXITS SIGNS REQUIRED PER SECTION 1006.2, TABLE 1006.2.1 AND SECTION 1013.1 EXCEPTION 1 OBC

3

CODE INFORMATION

PROJECT DESCRIPTION:

THIS PROJECT CONSIST OF BUILDING OUT OF EXISTING VACANT SPACE TO DEVELOPED INTO A HAIR SALON.

APPLICABLE BUILDING CODES:
2017 OHIO BUILDIG CODE
2017 OHIO MECHANICAL CODE
2017 OHIO PLUMBING CODE

GROSS AREA OF FLOOR = 3300 sf (FIRE WALL TO SOUTH EXTERIOR WALL)
AREA OF RENOVATION = 1,537 sf

OCCUPANCY GROUP:
EXISTING: VACANT M/A3
PROPOSED: B

OCCUPANT LOAD HAIR SALON: 23 (BASED ON SALON CHAIRS)

EXISTING CONSTRUCTION TYPE:
FIRST FLOOR - IIB
UPPER LEVELS - VB

MIXED USE AND OCCUPANCY - SEPARATION BETWEEN FIRST FLOOR AND UPPER LEVELS 2HRS. EXISTING

FIRE SUPRESSION: BUILDING IS FULLY SPRINKLED

FIRE RATINGS
STRUCTURAL FRAME: 2HRS EXISTING
FLOOR CONSTRUCTION: 1HR EXISTING
NONBEARING WALLS AND PARTITIONS: NO CHANGE
ROOF CONSTRUCTION: NO CHANGE

THIS PROJECT IS LOCATED ON THE 1ST FLOOR OF THIS 4 STORY BUILDING

THE EXISTING EGRESS PATH AND BULDING FIRE SEPARATION REMAINS UNCHANGED. A COPY OF THE EXISTING LIFE SAFETY PLAN IS SHOWN ON SHEET T001.

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE 2017 OHIO BUILDING, MECHANICAL AND PLUMBING CODE.
2. CONTRACTORS SHALL NOTE THAT THE OWNER WILL OCCUPY ADJACENT AREAS FOR PERFORMANCE OF NORMAL BUSINESS ACTIVITIES DURING CONSTRUCTION. CONTRACTORS SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT ADJACENT SPACES, EQUIPMENT, SERVICES, ETC., FROM DAMAGE DURING THE WORK. ANY SUCH DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ADJACENT AREAS TO REMAIN OPERATIONAL AND SECURED. MAKE PROVISIONS TO PREVENT MIGRATION OF DEMOLITION OR CONSTRUCTION CONTAMINANTS INTO THE OCCUPIED AREAS. EMERGENCY EXIT PATHS SHALL BE MAINTAINED AT ALL TIMES.
3. VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO WALLS, FLOORS, MECHANICAL CONSTRUCTION, EXISTING CONSTRUCTION TO REMAIN AND EXISTING CONSTRUCTION TO BE DEMOLISHED.
4. COORDINATE THE SIZE AND LOCATION OF ALL NEW WORK INCLUDING M.E.P. ITEMS OR OPENINGS WITH THE APPROPRIATE CONTRACTORS. PROPERLY SEAL ALL CONDUITS, PIPES, AND SYSTEMS WHICH PENETRATE FIRE-RATED WALLS AND PARTITIONS WITH CLASSIFIED SYSTEMS BY UNDERWRITERS LABORATORIES, INC. SEE SPECIFICATIONS FOR TYPICAL PROTECTION DETAILS.
5. ALL PENETRATIONS THROUGH STRUCTURAL MEMBERS, CEILING, ROOF AND FLOOR SLABS SHALL REQUIRE APPROVAL BY THE ARCHITECT AND OWNER PRIOR TO PERFORMING THE WORK.
6. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH EXISTING WORK INCLUDING M.E.P. ITEMS AND COORDINATE THE DISCONNECTING, CAPPING, PLUGGING, ETC. WITH BOTH OWNER'S REPRESENTATIVE AND M.E.P. CONTRACTORS PRIOR TO STARTING DEMOLITION WORK. MAINTAIN CONTINUITY OF ALL SERVICES, CIRCUITS AND EQUIPMENT NOT SCHEDULED FOR DEMOLITION OR REWORK.
7. MAINTAIN ALL FIRE PROTECTION SERVICES INCLUDING ALARMS, DETECTORS, EMERGENCY LIGHTING AND EXIT SIGNAGE DURING SELECTIVE DEMOLITION OPERATIONS. PROVIDE TEMPORARY LIGHTING FIXTURES AS REQUIRED FOR THE SAFETY, SECURITY AND PERFORMANCE OF WORK BY ALL TRADES.
8. EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN, DEMOLISHED MATERIALS SHALL BECOME CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM THE PROJECT SITE AND PROPERLY DISPOSED OF. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.
9. PRIOR TO THE SUBMISSION OF BIDS, THE ARCHITECT SHALL BE NOTIFIED OF ANY ERRORS, CONFLICTS OR OMISSIONS IN THE CONTRACT DOCUMENTS.
10. ALL MATERIALS, FIXTURES AND EQUIPMENT INDICATED IN THE CONSTRUCTION DOCUMENTS SHALL BE NEW AS SPECIFIED AND UNDER WARRANTY, UNLESS IDENTIFIED OTHERWISE.
11. CONTRACTORS SHALL SCHEDULE AND ARRANGE FOR ALL REQUIRED LEGAL INSPECTIONS.
12. SPECIFICATIONS AND ADDENDA ARE MADE AN INTEGRAL PART OF THESE DRAWINGS.
13. NEW CONSTRUCTION ABUTTING EXISTING CONSTRUCTION IN THE SAME PLANE SHALL BE FLUSH UNLESS NOTED OTHERWISE.
14. DIMENSIONS INDICATED ON PLANS ARE TO FACE OF PARTITIONS UNLESS NOTED OTHERWISE.
15. PATCH AND REPAIR ALL AREAS WITHIN THE SCOPE OF THE PROJECT AND ADJACENT TO THE PROJECT LIMITS WHICH HAVE BEEN AFFECTED BY DEMOLITION AND GENERAL CONSTRUCTION ACTIVITIES.
16. CLEAN IMMEDIATE WORK AREAS AND REMOVE DEBRIS FROM THE JOB SITE ON A DAILY BASIS.
17. NOTIFY THE OWNER PRIOR TO PROCEEDING WITH ANY WORK THAT WOULD BE AFFECTED BY UTILITIES NOTED TO BE REMOVED.
18. TAPE AND FILL ALL JOINTS IN GYPSUM WALLBOARD PANELS, READY FOR PAINTING. PAINTING ABOVE CEILINGS IS NOT REQUIRED.
19. DO NOT SCALE FROM THE DRAWINGS. WRITTEN DIMENSIONS SHALL ALWAYS TAKE PRECEDENCE. THE ARCHITECT SHALL BE NOTIFIED OF ANY CONFLICTS IN DIMENSIONING.
20. ALL FLOORS ON EITHER SIDE OF DOORWAY OR OPENING SHALL BE LEVEL AND HAVE A MAXIMUM ELEVATION DIFFERENCE OR THRESHOLD HEIGHT OF 1/2".
21. PROVIDE ALL REQUIRED BLOCKING, FURRING AND BACKING FOR ANY WALL MOUNTED FIXTURES, SHELVING AND ACCESSORIES. ALL WOOD TO BE FIRE RETARDANT TREATED.
22. INSTALL METAL EDGE TRIM ACCESSORIES AT ALL EXPOSED GYPSUM WALL BOARD OUTSIDE CORNERS AND WHERE GYPSUM WALL BOARD TERMINATES INTO ANOTHER MATERIAL.
23. VERIFY AND COORDINATE ALL PHASING OF PROJECT WITH OWNER'S REPRESENTATIVE..
24. PROVIDE CAULK AT ALL DISSIMILAR MATERIALS UNLESS NOTED OTHERWISE.
25. ALL NORMALLY ACCESSIBLE PARTS OF THE BUILDING SHALL CONFORM TO THE INTENT AND REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT. ALL EXISTING CONCRETE FLOORS SCHEDULED TO HAVE NEW FLOORING SHALL BE LEVEL TO WITHIN 1/8" OVER 10'-0" AND MEET ALL FLOORING MANUFACTURER'S REQUIREMENTS FOR PATCHING.
26. GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF ALL SUBCONTRACTORS AND RESOLVE ANY CONFLICTS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
27. ALL MEANS OF EGRESS IN THE AREA OF CONSTRUCTION SHALL BE MAINTAINED FREE OF CONSTRUCTION DEBRIS AT ALL TIMES.
28. MOVEMENT ROUTES OF CONSTRUCTION MATERIALS SHALL BE APPROVED BY OWNER.
29. NAIL MANICURING SERVICES WILL NOT BE PROVIDED IN THE HAIR SALON.

2

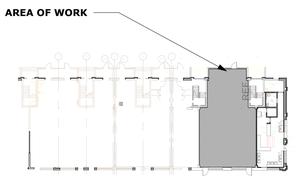
PROJECT TEAM

OWNER:
CMHA
1621 WESTERN AVENUE
CINCINNATI, OH, 45214
PH: (513) - 977 - 5854

ARCHITECT/LANDSCAPE ARCHITECT:
DNK ARCHITECTS, Inc.
2616 CENTRAL PARKWAY
CINCINNATI, OHIO 45214
PH: 513-948-4146 FAX: 513-679-4712

MECHANICAL/ELECTRICAL/PLUMBING:
HAL-PE ASSOCIATES
530 WEST 9TH STREET
NEWPORT, KENTUCKY 41071
PH: 859.431.6083 FAX:

VICINITY MAP



DNK
2616 Central
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513-948-414

CINCINNATI METROPOLITAN HOUSING AUTHORITY HAIR SALON

1504 & 1506 LINN STREET, CINCINNATI, OH 45214

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REVISIONS

No.	Date	Description
1	02/12/19	BLDG DEPT REV. 9
2	2/25/19	BLDG DEPT. REV 2
3	3/19/19	BLDG DEPT. REV 3

SEAL:

STATE OF OHIO
DAVID KIRK
10098
REGISTERED ARCHITECT

David Kirk, License #10098
Expiration Date 12/31/2019

PROJECT NO.	ISSUED BY:
1831	DNK
DRAWN BY:	**REVIEWED BY:**
DK/DWB	DK

ISSUE DATE: JANUARY 9, 2019

SHEET TITLE:
COVER SHEET

DISCIPLINE-SHEET NUMBER:
A001

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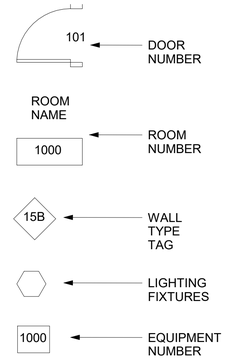
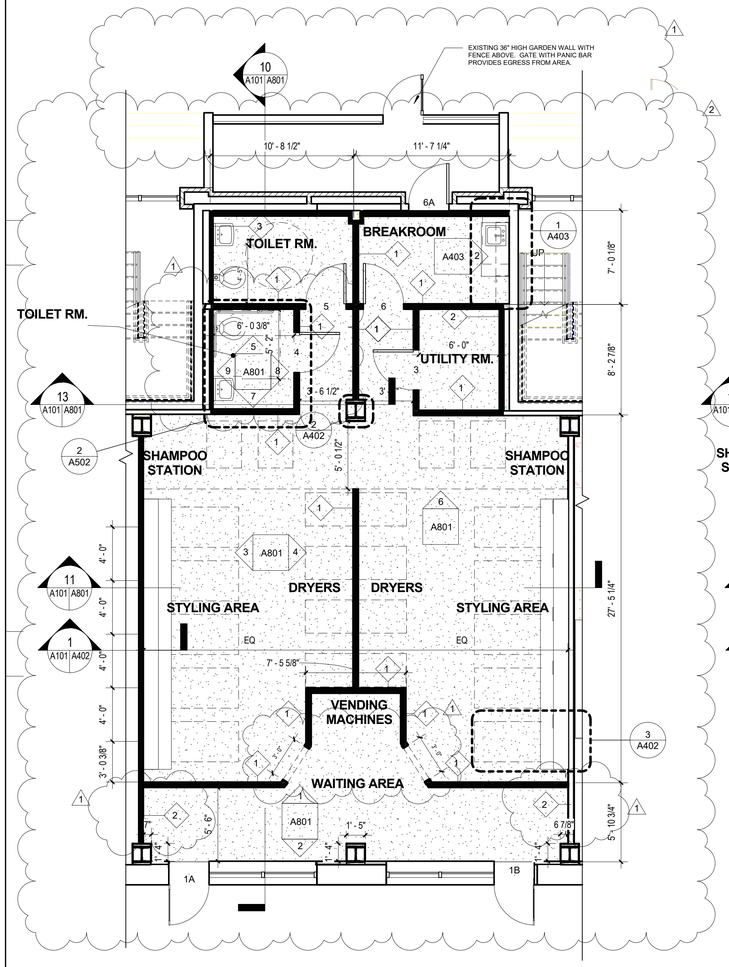
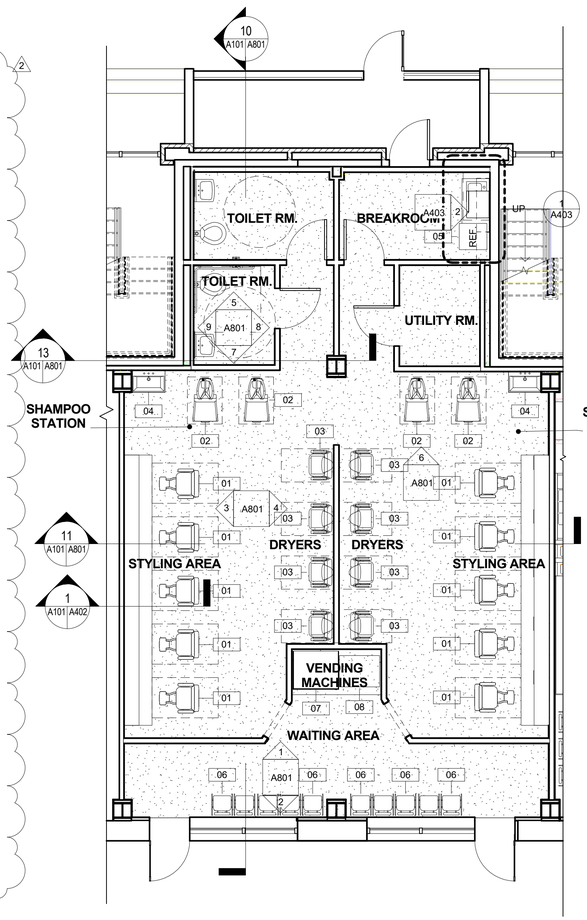
EQUIPMENT AND LIGHTING SCHEDULE		
Type Mark	Model	Manufacturer
01	SALON CHAIR	
02	SHAMPOO CHAIR	
03	DRYER CHAIR	
04	SHAMPOO SINK, WALL MOUNTED	
05	REFRIGERATOR	
06	CHAIR	
07	SODA VENDING MACHINE	
08	SNACK VENDING MACHINE	
09	HAND SINK, WALL MOUNTED	
10	LED CHANDELIER, SALM VMC31810	VONN, CREATIVE INNOVATIONS
11	TruLine 1.6A 5W 24VDC Plaster-IN LED System	PureEdge Lighting
41		

ANNOTATION

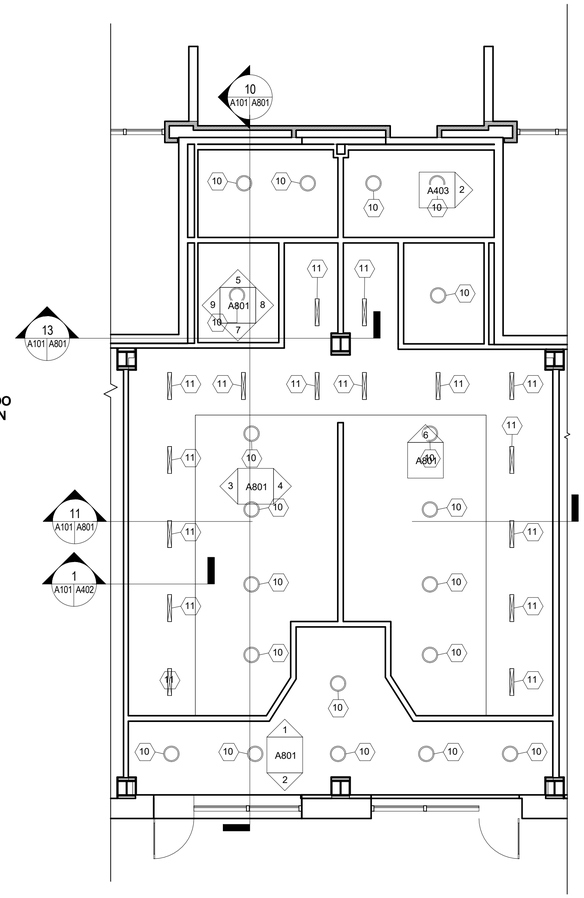




1 A801 A101 PROPOSED FLOOR PLAN
SCALE: 3/16" = 1'-0"



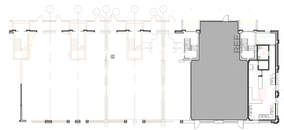
2 A801 A101 PRPOSED EQUIPMENT PLAN
SCALE: 3/16" = 1'-0"



3 A801 A101 PROPOSED REFLECTED CEILING PLAN
SCALE: 3/16" = 1'-0"

PROJECT NORTH

KEY



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1504 & 1506 LINN STREET, CINCINNATI, OH 45214

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REVISIONS

No.	Date	Description
1	02/12/19	BLDG DEPT REV.
2	3/19/19	BLDG DEPT. REV 3

SEAL:

STATE OF OHIO
DAVID KIRK
10098
REGISTERED ARCHITECT

David Kirk, License #10098
Expiration Date 12/31/2019

PROJECT NO.	ISSUED BY:
1831	DNK
DRAWN BY:	**REVIEWED BY:**
DK/DWB	DK

ISSUE DATE:
JANUARY 9, 2019

SHEET TITLE:
FIRST FLOOR PLAN

DISCIPLINE - SHEET NUMBER:
A101

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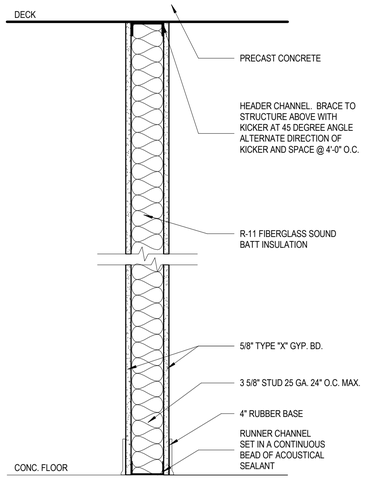
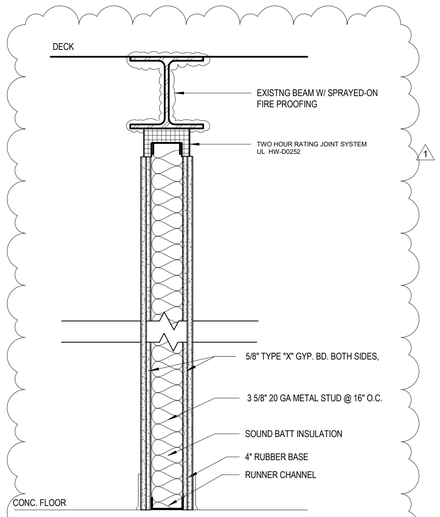


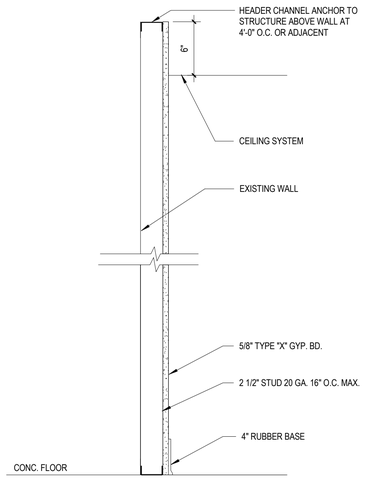
NON-RATED
STC = 44

1 PARTITION
SCALE: 1 1/2" = 1'-0"



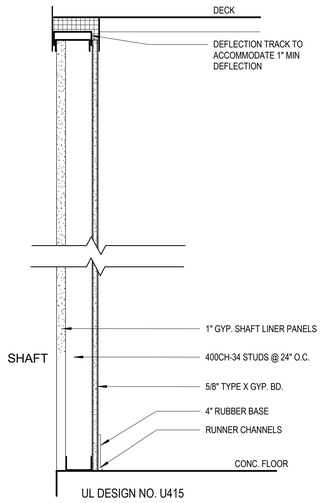
UL DESIGN NO. U419 (SIMILAR)
1 HR RATING
STC = 40

2 PARTITION
SCALE: 1 1/2" = 1'-0"



NON-RATED

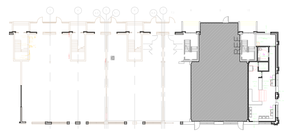
3 PARTITION
SCALE: 1 1/2" = 1'-0"



UL DESIGN NO. U415
1 HR RATING

4 PARTITION
SCALE: 1 1/2" = 1'-0"

KEY



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David Kirk, License #10098
Expiration Date 12/31/2019

PROJECT NO.	ISSUED BY:
1831	DNK
DRAWN BY:	**REVIEWED BY:**
DK/DWB	DK

ISSUE DATE: JANUARY 9, 2019

SHEET TITLE:

WALL TYPES & DETAILS

DISCIPLINE - SHEET NUMBER:

A401

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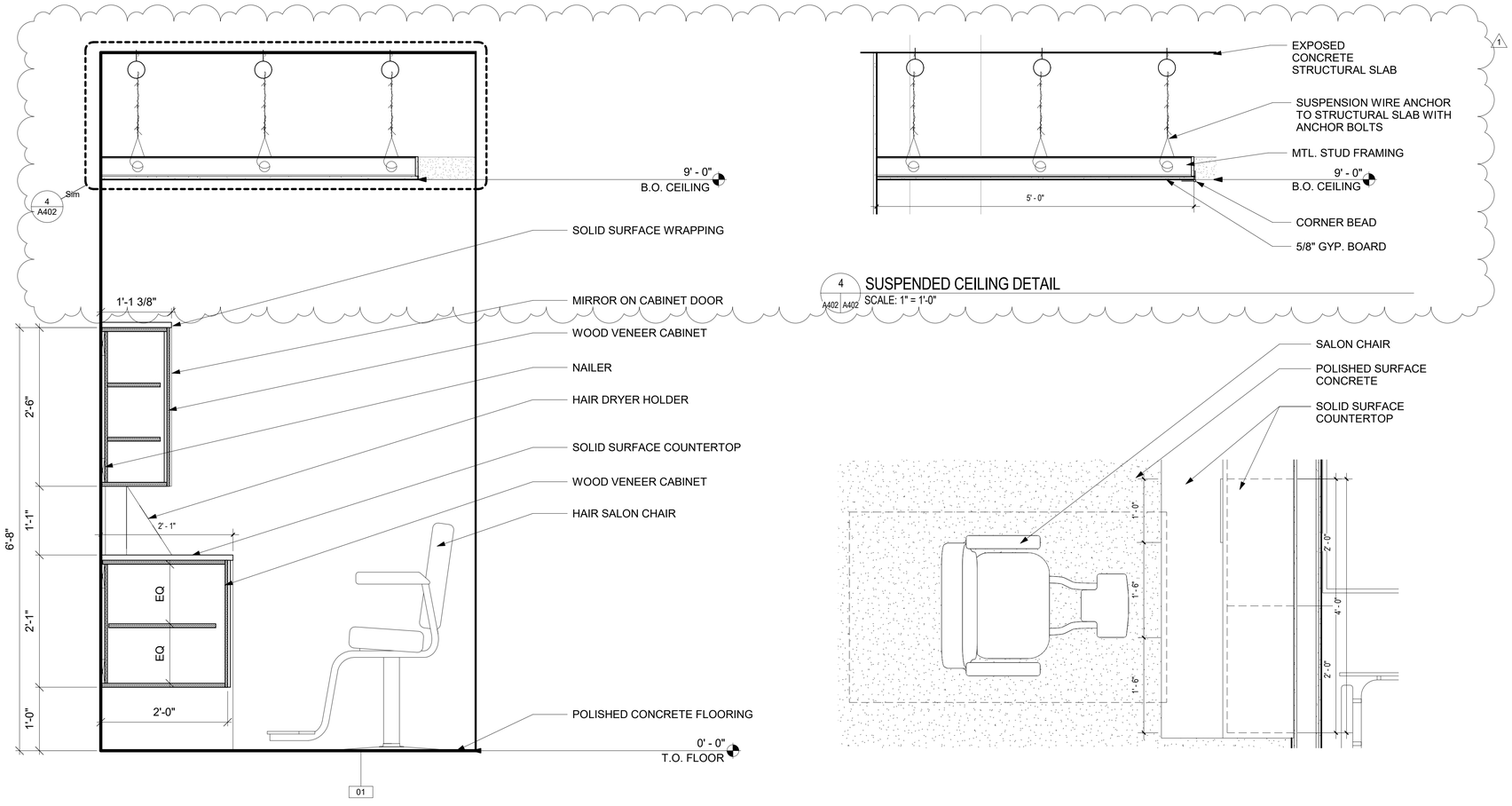
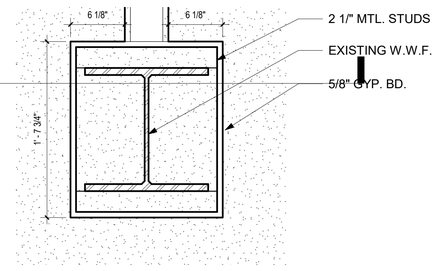


1 TYP. CASEWORK SECTION
A101 A402 SCALE: 1" = 1'-0"

4 SUSPENDED CEILING DETAIL
A402 A402 SCALE: 1" = 1'-0"

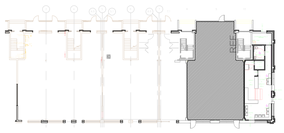
3 TYP. CASEWORK ENLARGED PLAN
A101 A402 SCALE: 1" = 1'-0"



13
A101 A801

2 TYP. COLUMN WRAP DETAIL
A101 A402 SCALE: 1 1/2" = 1'-0"

KEY



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DK/DWB	DK

ISSUE DATE: JANUARY 9, 2019

SHEET TITLE:

DETAILS

DISCIPLINE - SHEET NUMBER:

A402

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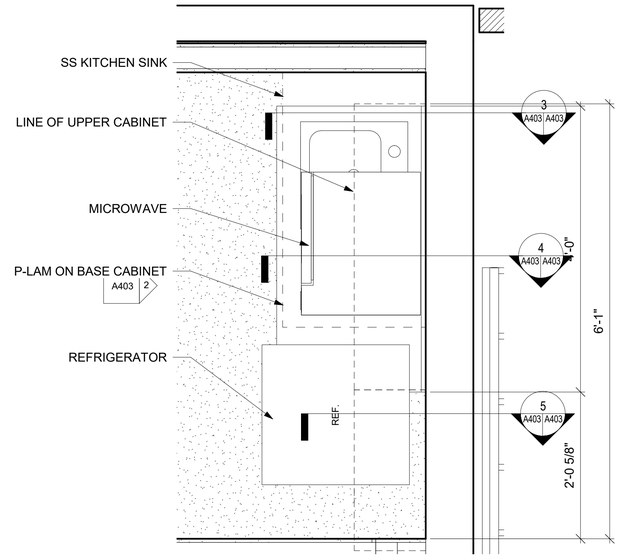
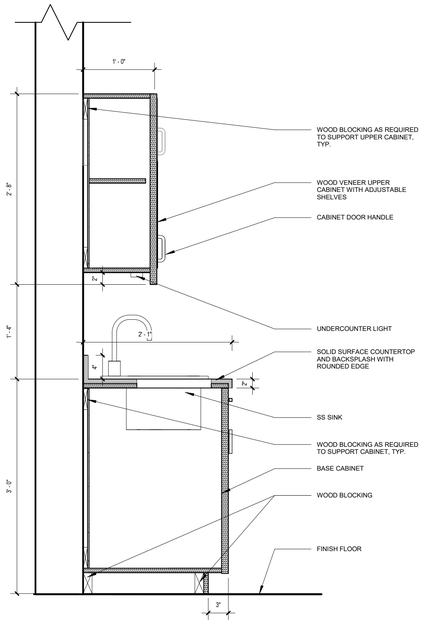


1 A101 A403 BREAKROOM CASEWORK PLAN
SCALE: 1" = 1'-0"



3 A403 A403 SECTION THROUGH SINK
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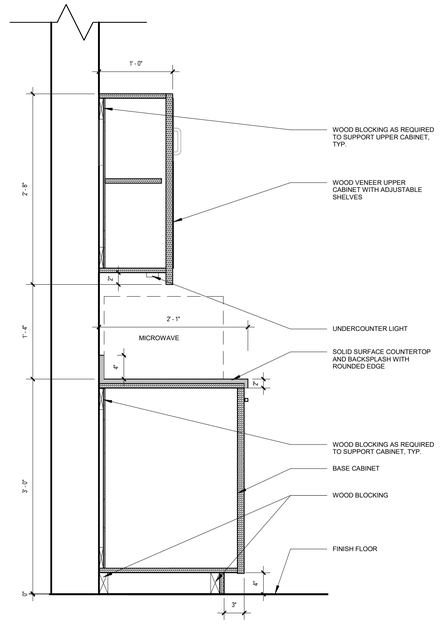

4 A403 A403 SECTION THROUGH CABINETS
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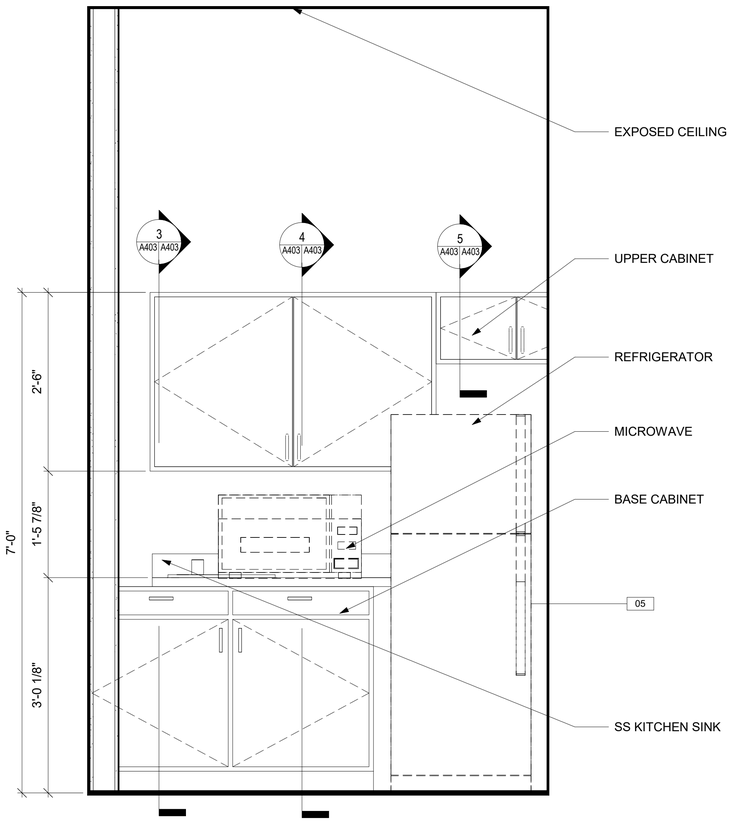
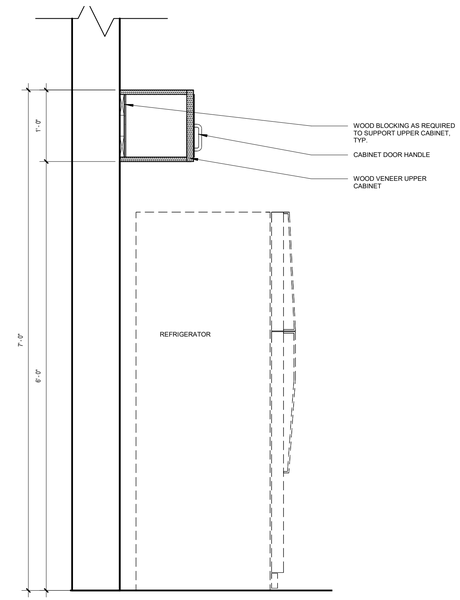


2 A101 A403 BREAKROOM CASEWORK ELEVATION
SCALE: 1" = 1'-0"



5 A403 A403 SECTION THROUGH UPPER CABINET
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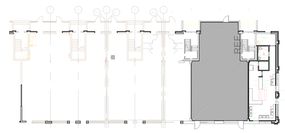
KEY



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REVISIONS

No.	Date	Description

SEAL:

STATE OF OHIO
DAVID N KIRK
10098
REGISTERED ARCHITECT

David Kirk, License #10098
Expiration Date 12/31/2019

PROJECT NO.	ISSUED BY:
1831	DNK
DRAWN BY:	**REVIEWED BY:**
DK	DK

ISSUE DATE: JANUARY 9, 2019

SHEET TITLE:

DETAILS

DISCIPLINE - SHEET NUMBER:

A403

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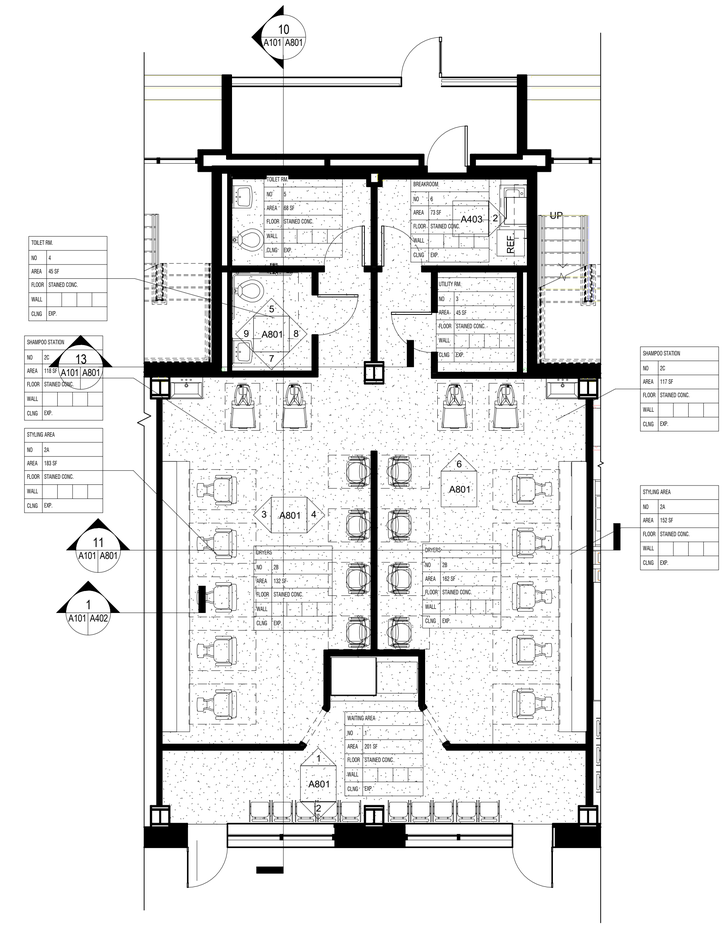
ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	WALL FINISH N	E	S	W	FLOOR FINISH	BASE FINISH	CEILING FINISH	CEILING HEIGHT	FRAME	REMARKS
1	WAITING AREA	P-1	P-1	P-1	P-1	STAINED CONC.	RB	EXP.		HM	
1A	VENDING MACHINES	P-1	P-1	P-1	P-1	STAINED CONC.	RB	EXP.		WD	
2A	STYLING AREA	P-1	P-1	P-1	P-1	STAINED CONC.	RB	EXP.	9' - 0"	WD	
2A	STYLING AREA	P-1	P-1	P-1	P-1	STAINED CONC.	RB	EXP.	9' - 0"	WD	
2B	DRYERS	P-1	P-1	P-1	P-1	STAINED CONC.	RB	EXP.		WD	
2B	DRYERS	P-1	P-1	P-1	P-1	STAINED CONC.	RB	EXP.		WD	
2C	SHAMPOO STATION	P-1	P-1	P-1	P-1	STAINED CONC.	RB	EXP.	9' - 0"	WD	
2C	SHAMPOO STATION	P-1	P-1	P-1	P-1	STAINED CONC.	RB	EXP.	9' - 0"	WD	
3	UTILITY RM.	P-1	P-1	P-1	P-1	STAINED CONC.	RB	EXP.		WD	
4	TOILET RM.	P-1	P-1	P-1	P-1	STAINED CONC.	RB	EXP.		WD	
5	TOILET RM.	P-1	P-1	P-1	P-1	STAINED CONC.	RB	EXP.		WD	
6	BREAKROOM	P-1	P-1	P-1	P-1	STAINED CONC.	RB	EXP.		WD	

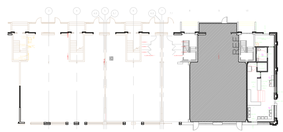
FINISH MATERIAL LEGEND

CODE	MATERIAL	MANUFACTURER	DESCRIPTION/PATTERN	COLOR/MODEL #	REMARKS
CONC	SEALED CONCRETE	-	-	-	-
CSC	CHEMICALLY STAINED CONCRETE FLOOR	SEE SPEC SECTION 03 35 19	-	-	SEE SPEC SECTION 03 35 19
CT-1	CERAMIC TILE	AMERICAN OLEAN	MATTE SERIES	#0067 SAND DOLLAR	6" X 6"
ETR	EXISTING TO REMAIN				FOR FINISHES ONLY. IF ANY NEW WORK HAS BEEN DONE TO THE NOTED MATERIAL, NEW FINISHES MUST BE SUPPLIED.
EXP	EXPOSED CONSTRUCTION UNFINISHED	-	-	-	-
GR	TILE GROUT	BOSTIK	TRUCOLOR PREMIXED GROUT	SAND BEIGE H148/ CHOCOLATE D-G10	-
P-1	PAINT	SHERWIN WILLIAMS	PROGREEN 200 LOW VOC INTERIOR LATEX	SW 7028 INCREDIBLE WHITE	EGGSHELL FINISH
P-2	PAINT	SHERWIN WILLIAMS	PROGREEN 200 LOW VOC INTERIOR LATEX	SW 6211 RAINWASHED	EGGSHELL FINISH
PL-1	PLASTIC LAMINATE	FORMICA	STANDARD FINISH 58 MATTE	913 INDIAN SMOKE	-
RB	RUBBER COVE BASE	JOHNSONITE	TIGHTLOCK 1/4" BASE	101 SEAWEED	-



1 / A801 A501 FINISH FLOOR PLAN
SCALE: 3/16" = 1'-0"

KEY



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David Kirk, License #10098
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1831	DNK
DRAWN BY:	**REVIEWED BY:**
DK/DWB	DK

ISSUE DATE:
JANUARY 9, 2019

SHEET TITLE:

ROOM FINISH SCHEDULE

DISCIPLINE - SHEET NUMBER:

A501

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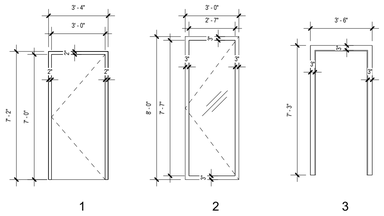
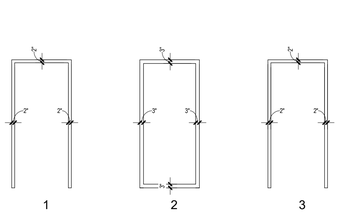
DOOR SCHEDULE

DOOR NUMBER	ROOM NAME	TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR MATERIAL	FIRE RATING	HARDWARE	LOCKSET TYPE	FRAME TYPE	FRAME MATERIAL	FRAME JAMB	FRAME HEAD	COMMENTS
1A	WAITING AREA		3' - 0"	8' - 0"	0' - 1"	EXISTING		PUSH/PULL	WAITING AREA	-	-	-	-	EXISTING*
1B	WAITING AREA		3' - 0"	8' - 0"	0' - 1"	EXISTING		PUSH/PULL	WAITING AREA	-	-	-	-	EXISTING*
3	UTILITY RM.		3' - 0"	7' - 0"	0' - 2"	WD		PASSAGE SET	STORAGE	1	HM	6	3	
4	TOILET RM.		3' - 0"	7' - 0"	0' - 2"	WD		PRIVACY SET	PRIVACY	1	HM	6	3	NO CLOSER
5	TOILET RM.		3' - 0"	7' - 0"	0' - 2"	WD		PRIVACY SET	PRIVACY	1	HM	6	3	NO CLOSER
6	BREAKROOM		3' - 0"	7' - 0"	0' - 2"	WD		PASSAGE SET	BREAKROOM	1	HM	6	3	
6A	BREAKROOM		3' - 0"	7' - 0"	0' - 2"	HM		PASSAGE SET	EXISTING	-	-	-	-	EXISTING*
6B		41	3' - 0"	7' - 0"	0' - 2"									

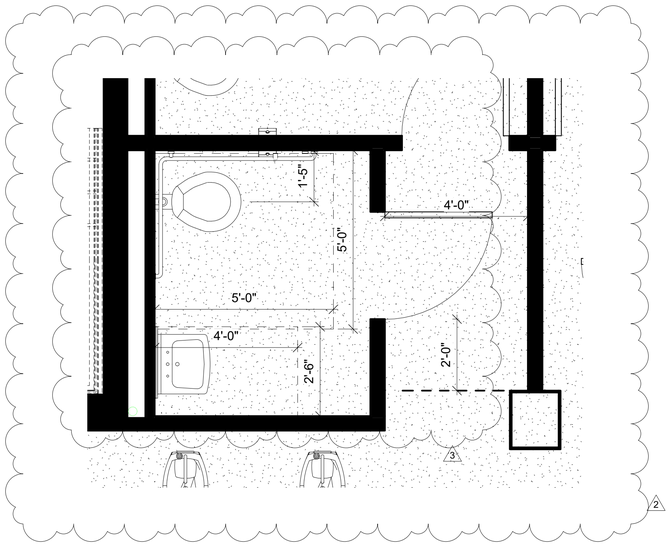
* EXISTING DOOR HARDWARE LOCK TO BE CONVERTED WITH THUMB TURN ON INSIDE. SIGN TO BE APPLIED TO DOOR STATING - "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED". THE SIGN SHALL BE IN LETTERS 1 INCH HIGH ON A CONTRASTING BACKGROUND.

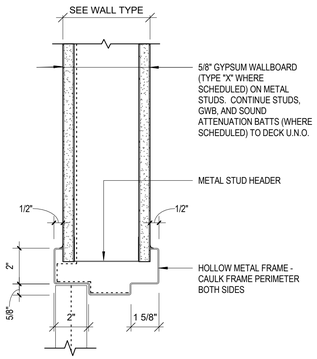


DOOR LEGEND
SCALE: 1/4" = 1'-0"

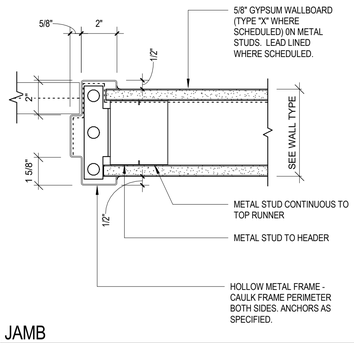


1 A502 A502 DOOR FRAME TYPES
1/4" = 1'-0"





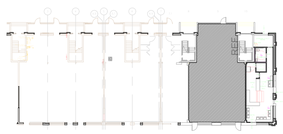
3 A502 A502 HEAD
3" = 1'-0"



6 A502 JAMB
SCALE: 3" = 1'-0"

2 A101 A502 FINISH FLOOR PLAN HANDICAP CLEARANCES
SCALE: 1/2" = 1'-0"

KEY



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REVISIONS

No.	Date	Description
1	02/12/19	BLDG DEPT REV.
2	2/25/19	BLDG DEPT. REV 2
3	3/19/19	BLDG DEPT. REV 3

SEAL:

STATE OF OHIO
DAVID KIRK 10098
REGISTERED ARCHITECT

David Kirk, License #10098
Expiration Date 12/31/2019

PROJECT NO.	ISSUED BY:
1831	DNK
DRAWN BY:	**REVIEWED BY:**
DK/DWB	DK

ISSUE DATE: JANUARY 9, 2019

SHEET TITLE:

DOOR SCHEDULE & DETAIL

DISCIPLINE - SHEET NUMBER:

A502

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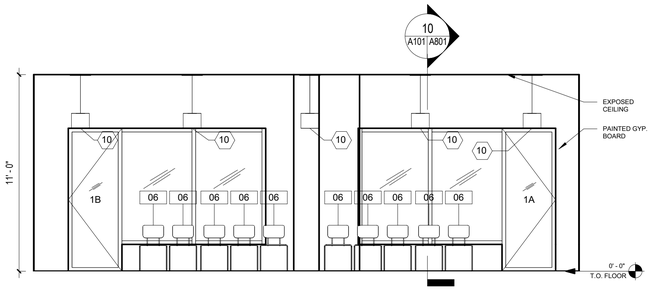
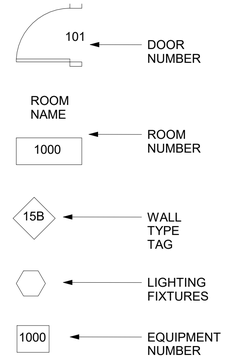
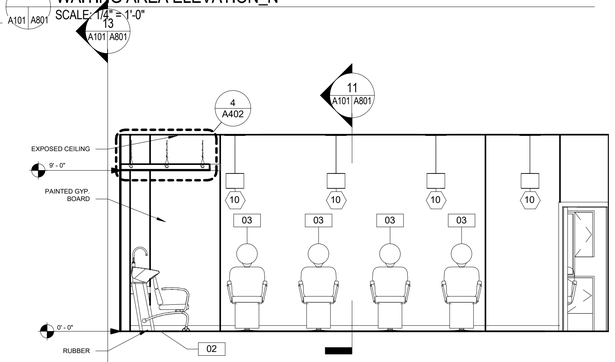
1 A101 A801 WAITING AREA ELEVATION_N
SCALE: 1/4" = 1'-0"



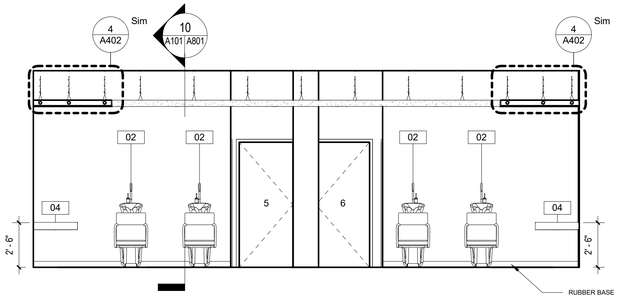
2 A101 A801 WAITING AREA ELEVATION_S
SCALE: 1/4" = 1'-0"

ANNOTATION

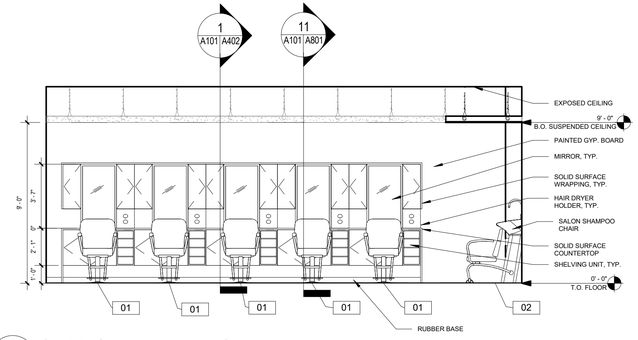




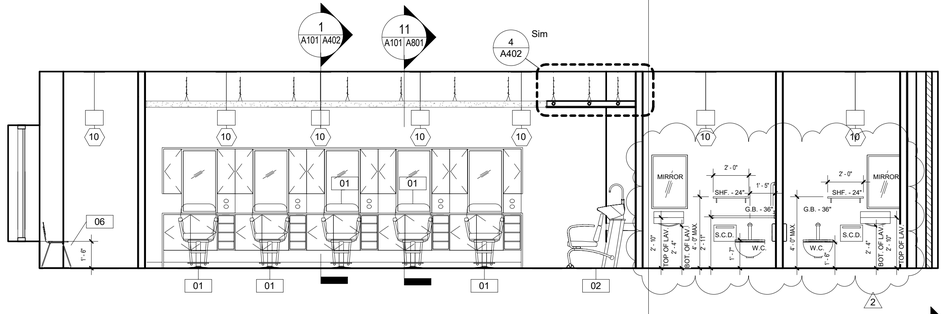
4 A101 A801 DRYING AREA ELEVATION_E
SCALE: 1/4" = 1'-0"



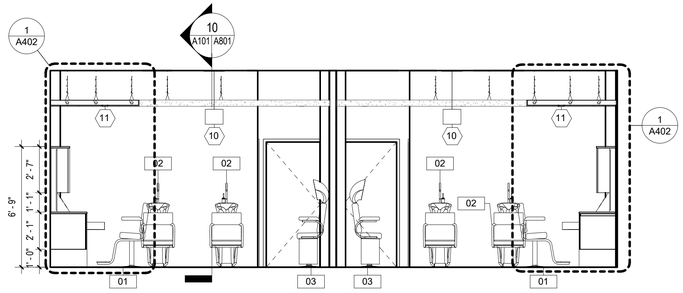
6 A101 A801 SHAMPOO STATION ELEVATION_N
SCALE: 1/4" = 1'-0"



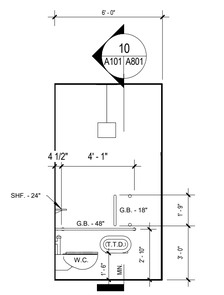
3 A101 A801 STYLING AREA ELEVATION_W
SCALE: 1/4" = 1'-0"



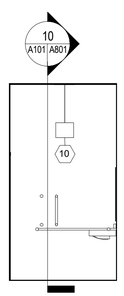
10 A101 A801 LONGITUDINAL SECTION
SCALE: 1/4" = 1'-0"



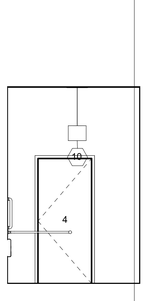
11 A101 A801 TRANSVERSE SECTION
SCALE: 1/4" = 1'-0"



5 A101 A801 ADA BATHROOM ELEVATION_N
SCALE: 1/4" = 1'-0"



7 A101 A801 ADA BATHROOM ELEVATION_S
SCALE: 1/4" = 1'-0"



8 A101 A801 ADA BATHROOM ELEVATION_E
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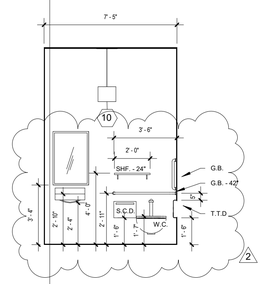
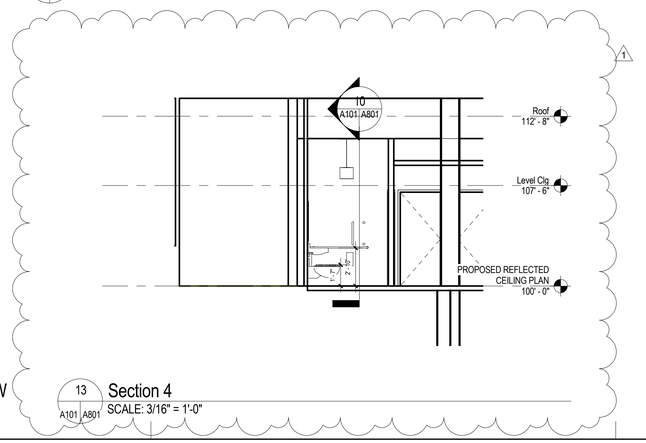
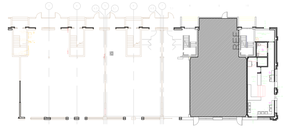


9 A101 A801 ADA BATHROOM ELEVATION_W
SCALE: 1/4" = 1'-0"



13 A101 A801 Section 4
SCALE: 3/16" = 1'-0"

KEY



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REVISIONS

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PROJECT NO.	ISSUED BY:
1831	DNK
DRAWN BY:	**REVIEWED BY:**
DK/DWB	DK

ISSUE DATE: JANUARY 9, 2019

SHEET TITLE:

INTERIOR ELEVATIONS

DISCIPLINE - SHEET NUMBER:

A801

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SPECIFICATIONS - HVAC

1. FURNISH ALL LABOR, MATERIAL, AND APPURTENANCES NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM AS SHOWN AND/OR REQUIRED.
2. ALL WORK SHALL CONFORM TO APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. EACH CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, TESTS, AND INSPECTIONS AS REQUIRED BY AUTHORITIES HAVING JURISDICTION FOR HIS OWN WORK.
3. WORKMANSHIP SHALL REPRESENT THE HIGHEST STANDARD OF THE INDUSTRY. ALL NON-CONFORMING WORK SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF TWO (2) YEARS AFTER ACCEPTANCE.
4. PERFORM ALL TESTS, ADJUSTMENTS, ETC. AS REQUIRED BY EQUIPMENT MANUFACTURER OR AUTHORITIES HAVING JURISDICTION. BALANCE SUPPLY, RETURN, EXHAUST, AND OUTSIDE AIR QUANTITIES AS SHOWN ON THE DRAWINGS. THEN, TRIM BALANCE FOR COMFORT CONDITIONING OF INDIVIDUALS IN EACH AREA WHILE MAINTAINING MINIMUM CODE REQUIRED OUTSIDE AIR. CHANGE FAN SPEEDS AS REQUIRED. SUBMIT BALANCE REPORTS TO OWNER/ARCHITECT FOR APPROVAL.
5. CONTRACTORS SHALL VISIT SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS AS MAY EFFECT HIS OWN WORK. NO EXTRAS WILL BE ALLOWED FOR CLAIMS BASED ON EXISTING CONDITIONS.
6. INSULATE ALL CONCEALED SUPPLY, RETURN, AND ALL OUTSIDE AIR DUCTWORK WITH 1-1/2" THICK DUCT WRAP WITH VAPOR BARRIER INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
7. INSULATE REFRIGERANT SUCTION WITH ½" FLEXIBLE ELASTOMERIC THERMAL INSULATION EQUAL TO ARMSTRONG ARMAFLEX INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
8. SHEETMETAL DUCTWORK SHALL BE GALVANIZED STEEL FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA. SEAL JOINTS AND SEAMS WITH MASTIC. DUCT TAPE IS NOT ACCEPTABLE. INSTALL FLEXIBLE CONNECTIONS AT UNITS.
9. FLEXIBLE DUCT SHALL BE FACTORY FABRICATED INSULATED CLASS 1, UL 181 LISTED, AIR DUCT AS MANUFACTURED BY CLEVAFLEX OR EQUAL, INSTALLED PER MANUFACTURER'S RECOMMENDATIONS, MAXIMUM LENGTH = 4'-0".
10. CONDENSATE PIPING - SCHEDULE 40 PVC, ASTM D-3034, WITH SOLVENT WELD FITTINGS, IF ACCEPTABLE TO LOCAL AUTHORITIES, OR TYPE "M" SEAMLESS HARD DRAWN COPPER TUBING, ASTM B-88, WITH WROUGHT COPPER SOLDER FITTINGS. DRAIN LINES ARE TO BE TRAPPED AT UNIT AND RUN FULL SIZE TO NEAREST FLOOR DRAIN OR MOP SINK.
11. SUBMIT EIGHT (8) COPIES OF MANUFACTURER'S SUBMITTAL DATA FOR ALL EQUIPMENT AND MATERIALS TO OWNER FOR REVIEW PRIOR TO INSTALLATION. SUBMITTALS SHALL CLEARLY IDENTIFY ALL EQUIPMENT, ACCESSORIES AND OPTIONS PROPOSED BY THE CONTRACTOR IN SUFFICIENT DETAIL TO RECEIVE PROPER CONSIDERATION. SUBMITTALS LACKING SUFFICIENT INFORMATION WILL BE RETURNED WITHOUT REVIEW.
12. EACH CONTRACTOR SHALL COORDINATE HIS OWN WORK WITH THAT OF OTHER TRADES.
13. EACH CONTRACTOR SHALL FURNISH ALL CUTTING AND PATCHING REQUIRED FOR HIS OWN WORK. NO CUTTING SHALL BE PERFORMED WITHOUT PRIOR APPROVAL. PATCHING SHALL BE CONSISTENT WITH ADJACENT SURFACES
14. ALL EQUIPMENT, DUCTS, PIPES, ETC. SHALL BE INSTALLED CONCEALED ABOVE THE CEILING OR IN WALLS UNLESS SHOWN OTHERWISE.
15. ALL HVAC EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR IN ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATIONS. ALL HVAC MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS INCLUDING ALL NATIONAL, STATE AND LOCAL CODES AND ALL AUTHORITIES HAVING JURISDICTION.
16. CONTROL WIRING, DEVICES, RELAYS, STARTERS, TRANSFORMERS, ETC. SHALL BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR. POWER WIRING SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
17. SUBMIT 3 COPIES OF OPERATING MANUAL TO OWNER WHICH INCLUDES MANUFACTURER'S DATA OF ALL EQUIPMENT INSTALLED, ROUTINE MAINTENANCE REQUIRED, BALANCE REPORTS AND ANY ADDITIONAL INSTRUCTIONS THE OWNER NEEDS TO OPERATE THE EQUIPMENT. MEET WITH THE OWNER AND THOROUGHLY EXPLAIN THE MANUAL AND INSTRUCTIONS TO THE OWNER'S SATISFACTION WITHIN 30 DAYS OF SUBSTANTIAL COMPLETION.

HVAC LEGEND

- 24x12 — RECTANGULAR DUCTWORK AND SIZE
- 8"ø — ROUND DUCTWORK AND SIZE
- SPIN-IN W/SCOOP AND DAMPER
- 8"ø — FLEXIBLE DUCTWORK AND SIZE
- MANUAL BALANCING DAMPER
- B.D. — GRAVITY BACKDRAFT DAMPER
- T — THERMOSTAT
- F — AUDIBLE / VISUAL SIGNALING DEVICE
- 3 — DRAWING NOTE SYMBOL AND NUMBER
- SD — AIR DUCT SMOKE DETECTOR
- 1" U.C. — 1" UNDERCUT DOOR (BY G.C.)
- HSW — HIGH SIDEWALL MOUNTED
- DUCT MOUNTED SUPPLY REGISTER SIDEWALL MOUNTED SUPPLY REGISTER
- SIDEWALL MOUNTED RETURN OR EXHAUST REGISTER
- SURFACE MOUNTED SUPPLY REGISTER
- SR-10x4 / 100 — SUPPLY REGISTER, FACE SIZE, AND CFM
- RR-32x30 — RETURN REGISTER AND FACE SIZE
- EG-12x12 / 225 — EXHAUST GRILLE, FACE SIZE, AND CFM

DRAWING NOTES

1. FIELD VERIFY THERMOSTAT LOCATION WITH OWNER BEFORE ROUGH-IN
2. AUDIBLE/VISUAL SIGNALING DEVICE LOCATED IN A CONSTANTLY ATTENDED LOCATION, FIELD VERIFY LOCATION WITH OWNER BEFORE ROUGH-IN
3. 3'-0"x1'-6"x1'-6" SHEET METAL PLENUM WITH 1" THICK DUCT LINER
4. ENERGY RECOVERY UNIT SUPPORTED FROM STRUCTURE ABOVE WITH THREADED RODS, UNISTRUT, AND VIBRATION ISOLATORS AS REQUIRED
5. EXPOSED DUCTWORK HELD TIGHT TO STRUCTURE ABOVE (TYPICAL OF ALL)
6. CONDENSING UNIT LOCATED ON PRECAST PAD, FIELD VERIFY LOCATION WITH OWNER BEFORE ROUGH-IN
7. PVC VENT/COMBUSTION AIR THROUGH WALL TO CONCENTRIC VENT TERMINATION KIT INSTALLED IN ACCORDANCE WITH MANUFACTUARER'S INSTALLATION INSTRUCTIONS
8. REMOVE EXISTING ELECTRIC UNIT HEATER AND RETURN TO OWNER AS REQUIRED

AIR DEVICE SCHEDULE

MARK	MODEL (OR EQUAL)	MATERIAL	FINISH	NOTES
SR	PRICE 620	ALUMINUM	WHITE	1, 2
RR	PRICE 635	ALUMINUM	WHITE	1, 2
EG	PRICE 635	ALUMINUM	WHITE	1, 2

NOTES:
1. FRAME TYPE F (STANDARD FLAT)
2. BALANCING DAMPER

AIR BALANCE SCHEDULE

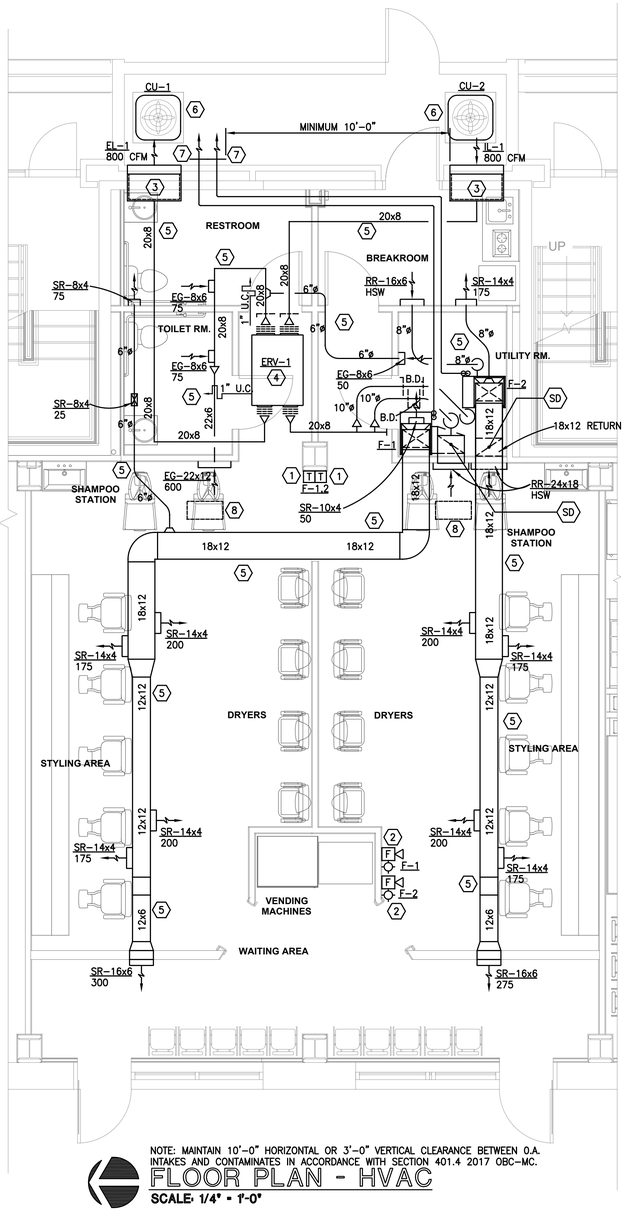
MARK	ROOMS SERVED	SUPPLY CFM	RETURN CFM	OUTSIDE AIR CFM	EXHAUST CFM
F-1	WAITING AREA	1200	804	396	- - -
F-2	WAITING AREA	1200	804	396	- - -
ERV-1	WAITING AREA	- - -	- - -	- - -	800
TOTAL	-	2400	1608	792	800

NOTES:
1. VENTILATION SYSTEM SHALL NOT BE PROHIBITED FROM PRODUCING A POSITIVE OR NEGATIVE PRESSURE IN ACCORDANCE WITH SECTION 403.1 2017 OBC-MC.

LOUVER SCHEDULE

MARK	RUSKIN MODEL (OR EQUAL)	MATERIAL	FINISH	NOTES
IL-1	ELF811DD	ALUMINUM	MILL	1
EL-1	ELF811DD	ALUMINUM	MILL	1

NOTES:
1. 3'-0"x1'-6" STATIONARY BLADE INTAKE LOUVER COMPLETE WITH INSECT SCREEN.



NOTE: MAINTAIN 10'-0" HORIZONTAL OR 3'-0" VERTICAL CLEARANCE BETWEEN O.A. INTAKES AND CONTAMINATES IN ACCORDANCE WITH SECTION 401.4 2017 OBC-MC.

FLOOR PLAN - HVAC

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

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PROJECT:
HAIR SALON
CITY WEST RETAIL SPACE
1504-1506 LINN STREET
CINCINNATI, OHIO 45214

SHEET TITLE:
HVAC - FLOOR PLAN AND NOTES

DRN:	CHK:	CAD REF:
BJM	SMG	14362H-1
DATE: 01-07-19		JOB NO. 14362

SHEET No.: **H-1**

VENTILATION AIR SCHEDULE

ZONE	ROOM NAME	ROOM NUMBER	OCCUPANCY CLASSIFICATION	ZONE POPULATION	PEOPLE OUTSIDE AIR RATE (CFM/PERSON)	VENTILATION FOR OCCUPANTS (CFM)	AREA (SQ FT)	AREA OUTDOOR AIR RATE (CFM/SQFT)	VENTILATION FOR AREA (CFM)	BREATHING ZONE OUTSIDE AIR (CFM)	DISTRIBUTION EFFECTIVENESS	ZONE OUTDOOR AIRFLOW (CFM)	PRIMARY OUTDOOR AIR FRACTION	REQUIRED OUTSIDE AIR (CFM)	ACTUAL OUTSIDE AIR (CFM)	ACTUAL SUPPLY AIR (CFM)	NOTES
F-1,2	WAITING AREA	- - -	RECEPTION AREAS	10	5	50	210	0.06	13	63	0.8	78.75	.14	184	189.5	575	1, 2
F-1	STYLING/SHAMPOO	- - -	BEAUTY SALON	11	20	220	449	0.12	54	274	0.8	342.5	.46 *	240	250	750	1, 2
F-2	STYLING/SHAMPOO	- - -	BEAUTY SALON	11	20	220	449	0.12	54	274	0.8	342.5	.46 *	240	250	750	1, 2
F-1	RESTROOM	- - -	PUBLIC RESTROOMS	- - -	- - -	- - -	67	- - -	- - -	- - -	- - -	- - -	- - -	- - -	25	75	1, 2
F-1	TOILET RM.	- - -	PUBLIC RESTROOMS	- - -	- - -	- - -	48	- - -	- - -	- - -	- - -	- - -	- - -	- - -	8.25	25	1, 2
F-2	EMPLOYEE BREAK	- - -	BREAK ROOMS	2	5	10	73	0.06	4	14	0.8	17.5	.10	56	57.75	175	1, 2
F-1	UTILITY	- - -	JANITOR'S CLOSET	- - -	- - -	- - -	72	- - -	- - -	- - -	- - -	- - -	- - -	- - -	16.5	50	1, 2

*MAXIMUM Z_p FOR THE SYSTEM.

NOTES:

1. OUTDOOR VENTILATION AIR BASED ON ASHRAE STANDARD 62.1-2016 "VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY" IN ACCORDANCE WITH SECTION 403.2 (EXCEPTION), 2017 OBC-MC.
2. F-1,2: WHERE V_{ou} = D x (OA FOR PEOPLE) + (OA FOR SPACE) AND D IS THE OCCUPANT DIVERSITY, V_{ou} = (.80 x 500) + 125 = 525 CFM.
   Z_p = 0.46; E_v = 0.69; OUTDOOR AIR INTAKE V_{ot} = V_{ou} /E_v = 525/0.69 = 761 CFM.
3. REQUIRED EXHAUST AIR PROVIDED BY LOCAL CEILING MOUNTED EXHAUST FAN IN ACCORDANCE WITH TABLE 6-4 "MINIMUM EXHAUST RATES" ASHRAE STANDARD 62.1-2016.

FURNACE SCHEDULE

MARK	CARRIER MODEL (OR EQUAL)	COIL MODEL	SUPPLY CFM	OUTSIDE AIR CFM	EXT. S.P.	HEATING (NAT. GAS)		ELECTRIC				NOTES
						INPUT(MBH)	OUTPUT(MBH)	HP	VOLTS	PHASE	MAX. FUSE SIZE	
F-1	59SC2C060S17-16	CNPVP4217ACA	1200	396	0.5"	60.0	56.0	1/2	120	1	15	1, 2, 3, 4
F-2	59SC2C060S17-16	CNPVP4217ACA	1200	396	0.5"	60.0	56.0	1/2	120	1	15	1, 2, 3, 4

NOTES:

1. 7-DAY DIGITAL PROGRAMMABLE HEATING / COOLING THERMOSTAT.
2. INSULATED COIL CASING.
3. SMOKE DETECTOR (RATED FOR USE IN HVAC DUCTWORK) SHALL BE INSTALLED IN RETURN AIR DUCT OR PLENUM UPSTREAM OF ANY FILTERS AND OUTDOOR AIR CONNECTIONS IN ACCORDANCE WITH SECTION 606.2.1, 2017 OBC - MECHANICAL CODE. UPON ACTIVATION, THE SMOKE DETECTOR SHALL SHUT DOWN THE ENTIRE AIR DISTRIBUTION SYSTEM. SYSTEM SUPERVISION CONTROL SHALL BE IN ACCORDANCE WITH SECTION 606.4.1, 2017 OBC - MECHANICAL CODE.
4. LOCATED ON 18" ANGLE IRON REINFORCED RETURN PLENUM BASE WITH 1" THICK DUCT LINER.

CONDENSING UNIT SCHEDULE

MARK	CARRIER MODEL (OR EQUAL)	FURNACE	COOLING		ELECTRIC					NOTES
			TOTAL(MBH)	SENS(MBH)	FLA	MCA	VOLTS	PHASE	MAX. FUSE SIZE	
CU-1	24AHA436A0050	F-1	35.40	37.80	10.2	12.5	208/230	3	20	1,2,3
CU-2	24AHA436A0050	F-2	35.40	37.80	10.2	12.5	208/230	3	20	1,2,3

NOTES:

1. LOCATED ON PRECAST PAD.
2. REFRIGERANT PIPING AND ACCESSORIES AS RECOMMENDED BY MANUFACTURER.
3. MAINTAIN MANUFACTURER'S MINIMUM REQUIRED SERVICE AND AIRFLOW CLEARANCES.

ENERGY RECOVERY UNIT SCHEDULE

MARK	GREENHECK MODEL NUMBER (OR EQUAL)	SUPPLY CFM	EXHAUST CFM	STATIC PRESS.	PERFORMANCE (DRY BULB/WET BULB TEMP.) *				ENERGY RECOVERED		ELECTRIC				NOTES
					O.A. WINTER	S.A. WINTER	O.A. SUMMER	S.A. SUMMER	COOLING (TON)	HEATING (MBH)	MCA	VOLTS	PHASE	MOP	
ERV-1	MINICORE-10	800	800	0.5"	0/0	72/54	95/75	75/63	2.07	38.1	21.8	120	1	30	1,2,3,4,5

NOTES:

1. TOTAL ENERGY DESICCANT HEAT RECOVERY WHEEL.
2. COUPLED WITH F-1 AND F-2 OPERATION.
3. INSULATED CASING
4. FILTERS
5. VIBRATION ISOLATORS.

* PERFORMANCE IS BASED ON OUTSIDE AIR INTAKE INTO HEAT RECOVERY UNIT AND FINAL SUPPLY CONDITIONS OUT OF ENERGY RECOVERY UNIT.

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PROJECT:
HAIR SALON
CITY WEST RETAIL SPACE
1504-1506 LINN STREET
CINCINNATI, OHIO 45214

SHEET TITLE:
HVAC - SCHEDULES AND NOTES

DRN:	CHK:	CAD REF:
BJM	SMG	14362H-1
DATE: 01-07-19		JOB NO. 14362

SHEET No.:
H-2

ELECTRICAL LEGEND

- LED PENDANT FIXTURE
- 2'-0" LED STRIP FIXTURE
- WALL MOUNTED LED FIXTURE
- EG — LIGHTING FIXTURE ON EGRESS LIGHTING CKT. AND/OR WIRE AHEAD OF ALL SWITCHING.
- EXIT/EM COMBINATION LIGHT FIXTURE
- EMERGENCY LIGHT
- SINGLE BASE WITH DUAL REMOTE EMERGENCY HEADS
- A / *–XX — LIGHT FIXTURE DESIGNATION, *– = PANEL DESIGNATION AND XX = CIRCUIT NO.
- $ — 1 POLE LIGHT SWITCH
- DUPLEX CONVENIENCE OUTLET
- WP/GFCI — GROUND FAULT INTERRUPTER/ WEATHERPROOF OUTLET
- GFCI — GROUND FAULT CIRCUIT INTERRUPTER
- SURFACE MTD ELECTRIC PANEL
- FUSED DISCONNECT SWITCH
- A–1 — CIRCUIT HOME RUN – CKT. #A–1
- VOLT | POLE | NEMA | FRAME | FUSE — DISCONNECT SWITCH INFORMATION
- # — NOTE SYMBOL – NOTE "#"

LUMINAIRE SCHEDULE

- (A) 2' LED ENCLOSED STRIP FIXTURE, UNIVERSAL BALLAST (120/277V), MAX 45W SOURCE. SUBMIT FIXTURE CUT–SHEETS TO OWNER/ARCHITECT FOR APPROVAL.
- (B) LED PENDANT FIXTURE, UNIVERSAL BALLAST (120/277V), MAX 24W SOURCE. SUBMIT FIXTURE CUT–SHEETS TO OWNER/ARCHITECT FOR APPROVAL.
- (C) LED EXTERIOR WALL MOUNT FIXTURE , UNIVERSAL BALLAST (120/277V), MAX 65W SOURCE. SUBMIT FIXTURE CUT–SHEETS TO OWNER/ARCHITECT FOR APPROVAL.
- (EM) SURFACE MOUNTED EMERGENCY FIXTURE COMPLETE WITH BATTERY BACK–UP, TEST SWITCH, CHARGE INDICATOR, (2) 5.4W 6VDC SEALED BEAM LAMPS, 120/277V DUAL VOLTAGE. LSI LIGHTING # LTEM–WH–120/277.
- (EC) COMBINATION LED EMERGENCY/EXIT SIGN, WHITE THERMOPLASTIC HOUSING, FIELD ADJUSTABLE TOP OR SIDE MOUNTING OF LED EMERGENCY LAMPS, BATTERY BACKUP, TEST SWITCH, CHARGE INDICATOR, RED LETTERS, UNIVERSAL MOUNTING KIT. LED LAMPS. REMOTE HEAD CAPABILITY, (2) 1.1W, 6VDC LED LAMPS, 120/277V DUAL VOLTAGE., LSI LIGHTING # LPRX–R–U–WH–LD11–R–120/277.
- (ER) EXTERIOR REMOTE HEADS. UNIVERSAL MOUNT. 5.4W 6VDC SEALED BEAM LAMPS. LSI LIGHTING # 2NP1RP2.

SPECIFICATIONS - ELECTRICAL

1. FURNISH ALL LABOR, MATERIAL AND APPURTENANCES NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM AS SHOWN OR REQUIRED.
2. ALL WORK SHALL CONFORM TO APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. EACH CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, TESTS, AND INSPECTIONS AS REQUIRED BY AUTHORITIES HAVING JURISDICTION FOR HIS OWN WORK.
3. WORKMANSHIP SHALL REPRESENT THE HIGHEST STANDARD OF THE INDUSTRY. GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE.
4. PERFORM ALL TESTS, ADJUSTMENTS, ETC. AS REQUIRED BY EQUIPMENT MANUFACTURER OR AUTHORITIES HAVING JURISDICTION. SUBMIT MANUFACTURERS O & M MANUALS FOR ALL EQUIPMENT.
5. CONTRACTORS SHALL VISIT SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS AS MAY EFFECT HIS OWN WORK. EACH CONTRACTOR SHALL COORDINATE HIS OWN WORK WITH THAT OF OTHER TRADES.
6. CONTROL WIRING SHALL BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR. POWER WIRING TO HVAC EQUIPMENT BY ELECTRICAL CONTRACTOR.
7. EACH CONTRACTOR SHALL FURNISH ALL CUTTING AND PATCHING REQUIRED FOR HIS OWN WORK. NO CUTTING SHALL BE PERFORMED WITHOUT PRIOR APPROVAL.
8. ALL EQUIPMENT, PIPES, DUCTS, ETC. SHALL BE INSTALLED CONCEALED ABOVE THE CEILING UNLESS SHOWN OTHERWISE. ALL EQUIPMENT AND FIXTURES SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR IN ACCORDANCE WITH THE STANDARD ARCHITECTURAL FINISH SPECIFICATIONS.
9. ELECTRICAL CONTRACTOR SHALL INSTALL ALL FIXTURES, SWITCHES, OUTLETS, ETC. IN ACCORDANCE WITH THE DIMENSIONS AND MOUNTING HEIGHTS SHOWN ON THE ARCHITECTURAL DRAWING(S).

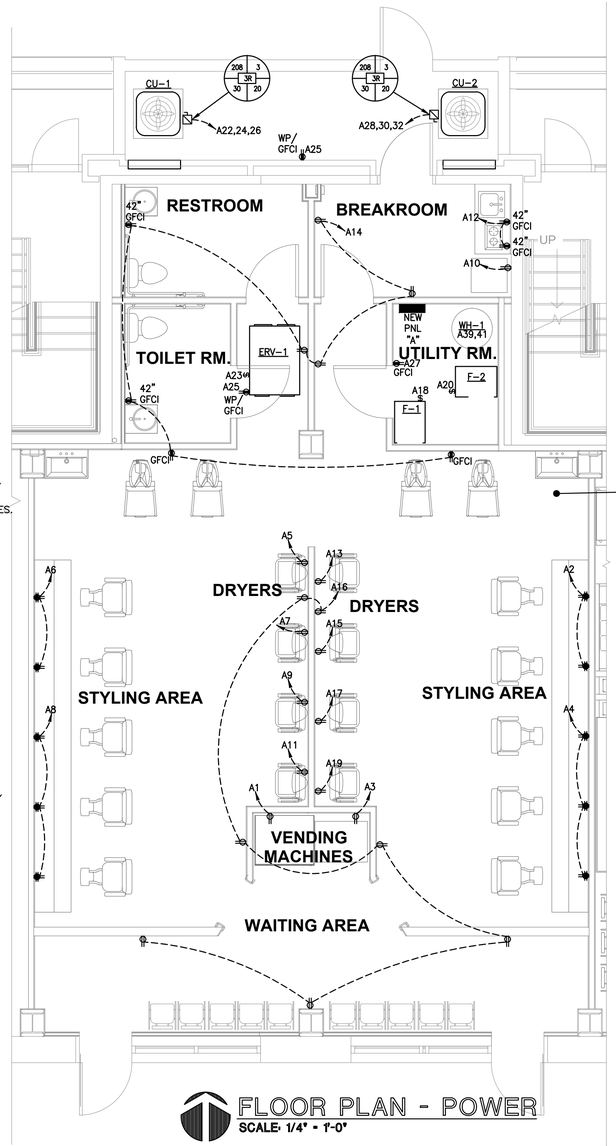
   CONDUITS SHALL BE GENERALLY TYPE EMT ABOVE GRADE UNLESS NOTED OTHERWISE. ALL CONDUCTOR SIZES SHOWN ARE BASED ON COPPER UNLESS NOTED OTHERWISE.
10. CONTRACTOR MAY USE ALUMINUM CONDUCTORS, MC CABLE, NM CABLE, AC CABLE AS PERMITTED BY LOCAL AUTHORITIES. CONTRACTOR ASSUMES RESPONSIBILITY FOR APPROVAL AND INSTALLATION.

    ELECTRICAL SYSTEMS, NOT JUST COMPONENTS, ARE TO BE IDENTIFIED AS SUITABLE FOR THE SPECIFIC PURPOSE, FUNCTION, USE, ENVIRONMENT, OR APPLICATION. THE SUITABILITY OF THE EQUIPMENT MAY BE DETERMINED BY A QUALIFIED TESTING LABORATORY, INSPECTION AGENCY, OR OTHER APPROVED ORGANIZATION MAY INCLUDE LABELING OR LISTING. THIS ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ANY INSPECTIONS AND FEES ASSOCIATED WITH ELECTRICAL SYSTEMS CONFORMANCE WITH THIS REQUIREMENT.
11. LIGHTING
    A. ELECTRICAL CONTRACTOR TO CONNECT CIRCUITRY FOR ILLUMINATED EXIT SIGNS AND EMERGENCY LIGHTING IN LOCAL LIGHTING CIRCUIT, AHEAD OF ANY SWITCHING.
    B. IN SOME INSTANCES, ROOMS REQUIRING ONLY ONE MEANS OF EGRESS MAY CONTAIN EMERGENCY LIGHTING FIXTURES IN ADDITION TO THE REQUIREMENTS OF THE CODE. THESE FIXTURES WERE INSTALLED FOR "COMMON SENSE" PURPOSES ONLY. SOME EXAMPLE ARE PUBLIC RESTROOMS AND AREAS CONTAINING MECHANICAL EQUIPMENT.
    C. FLUORESCENT LUMINAIRES THAT UTILIZE DOUBLE–ENDED LAMPS AND CONTAIN BALLAST(S) THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS INTERNAL OR EXTERNAL TO EACH LUMINAIRE, TO INCLUDE THE NEUTRAL, IN ACCORDANCE WITH NEC 410.130 (G).

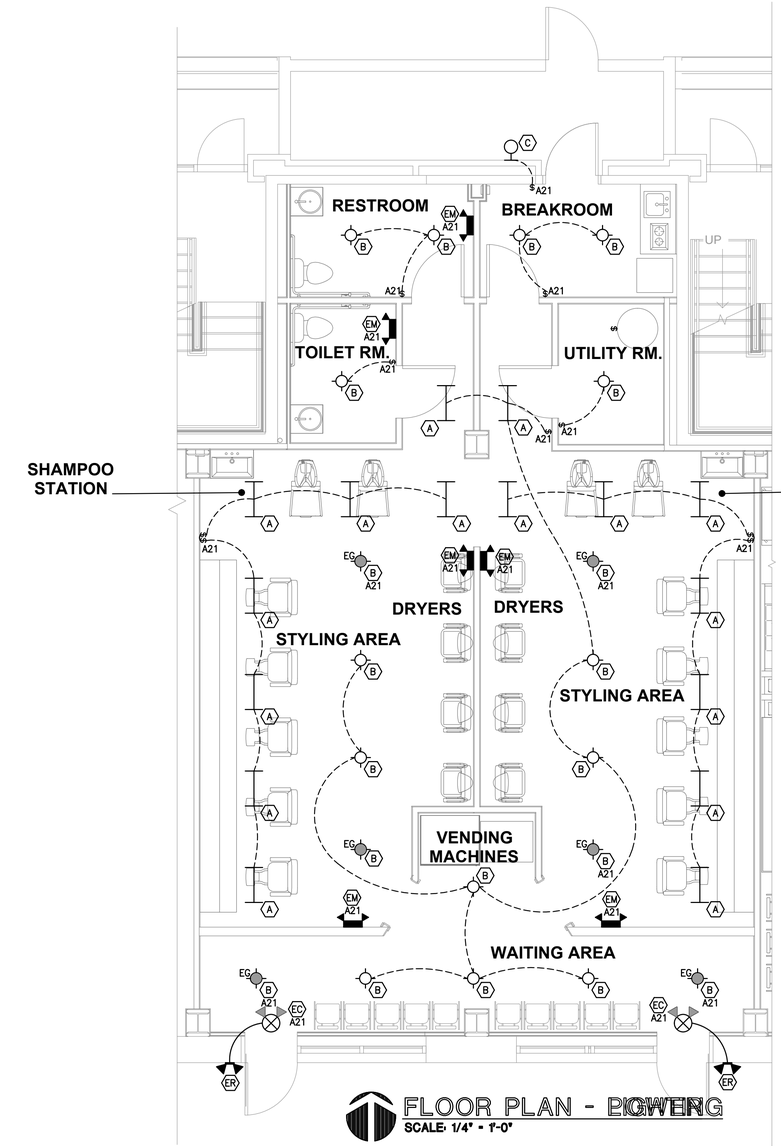
GENERAL NOTES:

A. FIRE/SMOKE STOPPING MATERIALS SHALL BE U.L. LISTED APPROVED AND RATED TO MATCH THE RATING OF FIRE RESISTENCE MATERIALS AT ALL PENETRATIONS IN FLOOR, CEILING, AND WALLS.

B. RECEPTACLES IN FIRE WALLS SERVING BETWEEN TENANT SPACES SHALL NOT SHARE SAME STUD SPACE.



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



FLOOR PLAN - LIGHTING
SCALE: 1/4" = 1'-0"

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SHEET TITLE:
FIRST FLOOR LIGHTING & POWER PLANS/SPECIFICATIONS

DRN:	CHK:	CAD REF:
MRN	YYY	14362E–1
DATE: 1/8/2019		JOB NO. 14362

SHEET No.:
E-1

PANEL "A" (NEW)

DESCRIPTION LOAD	TRIP	CKT	VA	VA PER PHASE A	VA PER PHASE B	VA PER PHASE C	VA	CKT	TRIP		DESCRIPTION LOAD
VENDING MACHINE	20	1	1,500	2,300			800	2	20		COUNTER RECEPTACLES
VENDING MACHINE	20	3	1,500		2,700		1,200	4	20		COUNTER RECEPTACLES
DRYER CHAIR	20	5	1,500			2,300	800	6	20		COUNTER RECEPTACLES
DRYER CHAIR	20	7	1,500	2,700			1,200	8	20		COUNTER RECEPTACLES
DRYER CHAIR	20	9	1,500		3,050		1,550	10	20	G	REFRIGERATOR
DRYER CHAIR	20	11	1,500			3,000	1,500	12	20		COUNTER GFCI RECEPTACLES
DRYER CHAIR	20	13	1,500	2,940			1,440	14	20		REST/HALL/SHAMPOO RECEPTS
DRYER CHAIR	20	15	1,500		2,760		1,260	16	20		WAITING/GENERAL RECEPTS
DRYER CHAIR	20	17	1,500			2,676	1,176	18	15		F-1
DRYER CHAIR	20	19	1,500	2,676			1,176	20	15		F-2
LIGHITNG EMRGCY/EGRESS LTG	20	21	1,425		2,649		1,224	22	20		CU-1
ERV-1	30	23	2,197			3,421	1,224	24	/		"
OUTDOOR GFCI RECEPTACLE	20	25	360	1,584			1,224	26	3		"
UTILITY ROOM GFCI RECEPT	20	27	180		1,404		1,224	28	20		CU-2
SPACE	--	29	0			1,224	1,224	30	/		"
SPACE	--	31	0	1,224			1,224	32	3		"
SPACE	--	33	0		0		0	34	--		SPACE
SPACE	--	35	0			0	0	36	--		SPACE
SPACE	--	37	0	0			0	38	--		SAPCE
WH-1	30	39	2,250		2,250		0	40	--		SPACE
"	/2	41	2,250			2,250	0	42	--		SPACE
		CONN. LOAD /PHASE (VA)		13,424	14,813	14,871					
		CONN. LOAD /PHASE (AMPS)		111.9	123.4	123.9					

TOTAL CONNECTED: 43.1 KVA
TOTAL AMPS: 119.7 AMPS
TOTAL DEMAND: 123.2 AMPS

[ ] MAIN LUGS ONLY ____ A.
[X] MAIN BREAKER 200 A.

SERVICE: 120/208V, 3PH 4W
FEEDER: SEE RISER DIAGRAM
MOUNTING: SURFACE
AIC: 10,000

CKT. BREAKER NOTES FOR EXISTING OR NEW PANEL: A = ARC FAULT, H = HACR, L = LOCK-ON DEVICE.
CKT. BREAKER NOTES FOR EXISTING PANEL: R = EXISTING WITH REVISED LOADS, N = NEW BREAKER/LOAD, E = EXISTING TO REMAIN.
NOTE: PROVIDE ENGRAVED PLAQUE ON PANEL COVER WHICH INDICATES SHORT CIRCUIT CAPACITY RATING AS PER NEC 409.110.

LOAD CALCULATION - METER BANK

REVISED 600A MCB, 208Y/120V, 3ø, 4W METER BANK

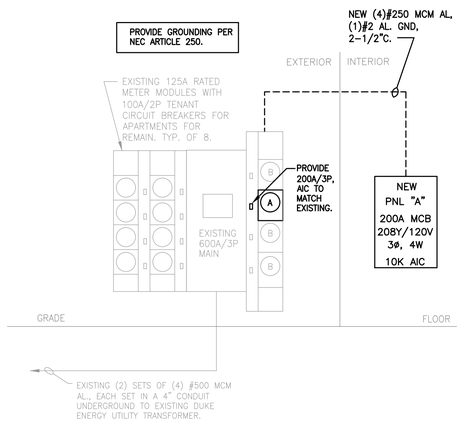
CONTINUOUS LOADS @ 125%:

EXISTING DEMAND LOAD:	
(8) EX. APTS. EACH ON 100 AMP/2P C.B. 100A / 20.8 EACH.	166.4 KVA
NEC 220.84 DEMAND:	43%
NEC APT. DEMAND LOAD:	71.5 KVA
EXISTING PANEL "P1" DEMAND LOAD:	45.6 KVA
NEW PANEL "A" DEMAND LOAD:	39.9 KVA
TOTAL DEMAND LOAD:	157.0 KVA 436.1 AMPS

LOAD CALCULATION - "A"

NEW 200A MCB, 208Y/120V, 3ø, 4W PANEL "P1"

LIGHTING @ 125%:	1.8 KVA
RECEPTACLE @ 100%:	3.2 KVA
RECEPTACLE @ 50%: (NEC 220-44).	0.0 KVA
MISC. POWER @ 100%:	28.7 KVA
HVAC @ 100%:	2.4 KVA
HVAC (COOLING) @ 100%: (00.0 KVA)	7.3 KVA
HVAC (HEATING) @ 100%: (13.5 KVA)	
LARGEST MOTOR @ 125%:	0.9 KVA
TOTAL DEMAND LOAD:	39.9 KVA 110.8 AMPS



EXISTING 600A, 208Y/120V, 3 PH., 4W ELECTRIC RISER DIAGRAM

NOT TO SCALE

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PROJECT:
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1504-1506 LINN STREET
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SHEET TITLE:
RISER DIAGRAM/PANEL SCHEDULE/LOAD CALCULATIONS

DRN:	CHK:	CAD REF:
MRN	YYY	14362E-1

DATE:	JOB NO.
1/8/2019	14362

SHEET No.:
E-2

PLUMBING SPECIFICATIONS

1 FURNISH ALL LABOR, MATERIAL AND APPURTENANCES NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM AS SHOWN OR REQUIRED.

2 ALL WORK SHALL CONFORM TO OBC–PLUMBING CODE AND ALL AUTHORITIES HAVING JURISDICTION. EACH CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, TESTS AND INSPECTIONS AS REQUIRED BY AUTHORITIES HAVING JURISDICTION FOR HIS OWN WORK.

3 WORKMANSHIP SHALL REPRESENT THE HIGHEST STANDARD OF THE INDUSTRY. GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE.

4 PERFORM ALL TESTS, ADJUSTMENTS, ETC., AS REQUIRED BY EQUIPMENT MANUFACTURER OR AUTHORITIES HAVING JURISDICTION.

5 CONTRACTORS SHALL VISIT SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS AS MAY EFFECT HIS OWN WORK. NO EXTRAS WILL BE ALLOWED FOR EXISTING CONDITIONS.

6 WATER PIPING:
- A. TYPE "L" SEAMLESS HARD COPPER TUBE, ASTM B–88, WITH WROUGHT COPPER SOLDER FITTINGS WITH 95–5 SOLDER JOINTS. INSULATE ALL COPPER WATER PIPING WITH 1" FIBERGLASS INSULATION WITH ALL PURPOSE JACKET OR 1/2" CLOSED CELL RUBBER INSULATION INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

7 SANITARY, WASTE AND VENT PIPING:
- A. SCHEDULE 40 SOLID CORE PVC, ASTM D–2665, PIPE AND FITTINGS WITH SOLVENT WELD JOINTS.

8 INSTALL CHROME ESCUTCHEON PLATES AT ALL EXPOSED PIPING PENETRATIONS THRU FINISH WALLS AND CEILINGS.

9 EACH CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER TRADES.

10 EACH CONTRACTOR SHALL FURNISH ALL CUTTING AND PATCHING REQUIRED FOR HIS OWN WORK. NO CUTTING SHALL BE PERFORMED WITHOUT PRIOR APPROVAL. ALL EXISTING FLOOR SLABS SHALL BE SAW CUT AND AFTER BACKFILLING FINISH WITH CONCRETE PATCHING LEVEL WITH ADJACENT SURFACES, SMOOTHED TO ACCEPT FINISH FLOORING.

11 ALL EQUIPMENT, PIPES ETC. SHALL BE INSTALLED CONCEALED ABOVE THE CEILING OR IN WALLS UNLESS SHOWN OTHERWISE.

12 DISCONNECT ALL EXISTING PLUMBING EQUIPMENT AS REQUIRED. REMOVE ALL UNUSED PIPING, DRAINS, ETC.

13 EXCAVATION:
- A. PROVIDE ALL MATERIALS REQUIRED FOR EXCAVATIONS, TRENCHING, BRACING, SHORING AND PUMPING EQUIPMENT.
- B. EXAMINE ALL SITE CONDITIONS PRIOR TO STARTING THE WORK. COORDINATE ALL WORK WITH ALL OTHER TRADES, AND EXISTING PIPING.
- C. FURNISH, INSTALL AND MAINTAIN BRACING, SHORING OR SHEATHING NECESSARY TO SUPPORT THE WALLS OF EXCAVATIONS. CUT OFF SHEATHING AT TOP LEVEL OF PIPE BEFORE BACKFILLING.
- D. FURNISH, INSTALL AND OPERATE PUMPING EQUIPMENT AS NECESSARY TO KEEP EXCAVATIONS FREE OF WATER.
- E. GRADE TRENCHES TO UNIFORM PITCH AS REQUIRED BY SLOPE OF PIPE. TRENCHES SHALL NOT BE WIDER THAN ABSOLUTELY NECESSARY TO PERMIT PIPE INSTALLATION.
- F. REMOVE ALL EXCAVATED MATERIALS FROM SITE.
- G. BLASTING IS NOT PERMITTED.
- H. TRENCHES AND EXCAVATIONS SHALL BE FREE OF LOOSE EARTH AND WATER BEFORE LAYING PIPE OR INSTALLING FOUNDATIONS.
- I. TRENCHES PASSING BUILDING FOOTINGS AND BELOW THE ANGLE OF REPOSE OF ONE VERTICAL TO ONE AND ONE HALF HORIZONTAL FROM THE BOTTOM OF THE FOOTINGS, SHALL BE FILLED WITH 1500# CONCRETE TO 6" ABOVE THE ANGLE OF REPOSE AND THE BALANCE OF BACKFILL TO BE GRANULAR MATERIALS.

14 BACKFILLING:
- A. AFTER INSTALLATION, TEST, AND APPROVAL OF PIPING AND EQUIPMENT HAS BEEN COMPLETED, BACKFILL ALL EXCAVATIONS.
- B. PROVIDE A MINIMUM OF 6" OF SAND BENEATH ALL PIPES. THIS REQUIREMENT IS FOR BOTH SHAPED AND NON–SHAPED TRENCHES. THE REMAINDER OF THE PIPE SHALL BE ENTIRELY SURROUNDED TO A HEIGHT OF AT LEAST ONE FOOT ABOVE ITS TOP BY SAND CAREFULLY PLACED BY HAND AND COMPACTED TO AN OPTIMUM COMPACTION. SAND SHALL FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE.
- C. BACKFILL ALL EXCAVATIONS WITH GRANULAR MATERIALS. DO NOT USE EXCAVATED MATERIALS FOR BACKFILL.
- D. TERMINATE AND ROUGH GRADE BACKFILL MATERIALS TO CONFORM TO THE SUB GRADE ELEVATION IN ALL AREAS.

15 FIRESTOPPING:
- A. CONFORM TO NEC 300.21 BY USE OF DOW CORNING FIRE STOP FOAMOR SEALANT OR APPROVED EQUAL IN SLEEVES AND VOIDS TO MAINTAIN FIRESTOP OF ALL CODE REQUIRED FIRE SEPARATIONS. MATERIAL TO BE U. L. CLASSIFIED. SEE ARCHITECTURAL DRAWINGS FOR FIRE RATINGS.

16 SUBMIT THREE COPIES OF OPERATING MANUAL TO OWNER WHICH INCLUDES MANUFACTURERS DATA OF ALL EQUIPMENT INSTALLED, ROUTINE MAINTENANCE REQUIRED, AND ANY ADDITIONAL INSTRUCTIONS OWNER NEEDS TO OPERATE EQUIPMENT. MEET WITH OWNER AND THOROUGHLY EXPLAIN MANUAL AND INSTRUCTIONS TO OWNERS SATISFACTION.

FIRE PROTECTION SPECIFICATIONS

1 SPRINKLER CONTRACTOR SHALL DESIGN AND MODIFY THE EXISTING SPRINKLER SYSTEM FOR THE NEW SPACE LAYOUT IN ACCORDANCE WITH ALL APPLICABLE CODES. SPRINKLER CONTRACTOR SHALL PROVIDE ANY AND ALL DRAWINGS AND CALCULATIONS NECESSARY TO OBTAIN REQUIRED PERMITS.

2 EACH CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER TRADES.

3 EACH CONTRACTOR SHALL FURNISH ALL CUTTING AND PATCHING REQUIRED FOR HIS OWN WORK. NO CUTTING SHALL BE PERFORMED WITHOUT PRIOR APPROVAL. ALL EXISTING FLOOR SLABS SHALL BE SAW CUT AND AFTER BACKFILLING FINISH WITH CONCRETE PATCHING LEVEL WITH ADJACENT SURFACES, SMOOTHED TO ACCEPT FINISH FLOORING.

4 SYSTEM DESIGN SHALL CONFORM TO REQUIREMENTS OF NFPA–13, CITY AND STATE.

PLUMBING FIXTURE CONNECTION SCHEDULE

MARK	DESCRIPTION	SAN	VENT	CW	HW
WC–1	ADA WATER CLOSET–EQUAL TO AMERICAN STANDARD "CADET 3 RIGHT HEIGHT" 2386.012 FOR LEFT HAND TRIP LEVER OR 4021.800 TANK & COVER FOR RIGHT HAND TRIP LEVER AS REQUIRED TO HAVE TRIP LEVER ON WIDE SIDE OF TOILET AREA, WHITE, FLOOR MOUNTED, 16–1/2" HIGH ELONGATED BOWL, 1.6 GALLONS/FLUSH, BOLT CAPS; SEAT–EQUAL TO BEMIS 1955CT WHITE OPEN FRONT LESS COVER; CHROME PLATED SUPPLY & STOP. MEETS ADA GUIDELINES.	3"	1–1/2"	1/2"	–
LAV–1	ADA LAVATORY–EQUAL TO AMERICAN STANDARD "LUCERNE" 0355.012, 20"x18" WHITE, WALL HUNG, 4" CENTERS, FRONT OVERFLOW; FAUCET–EQUAL TO A/S 2175.506 SINGLE LEVER WITH CHROME PLATED GRID DRAIN, TRAP & SUPPLIES, TRUEBRO "LAV GUARD" TRAP & SUPPLY INSULATORS AND WALL HANGER. MOUNT AT BARRIER–FREE HEIGHT. MEETS ADA GUIDELINES. INSTALL THERMOSTATIC MIXING VALVE EQUAL TO POWERS e480 SERIES, CONFORMING TO ASSE 1070. SET OUTLET AT 105'.	1–1/2"	1–1/2"	1/2"	1/2"
LAV–2	LAVATORY–EQUAL TO AMERICAN STANDARD "LUCERNE" 0355.012, 20"x18" WHITE, WALL HUNG, 4" CENTERS, OVERFLOW; FAUCET–EQUAL TO A/S 2175.506 SINGLE LEVER WITH CHROME PLATED GRID DRAIN, TRAP & SUPPLIES, AND WALL HANGER. INSTALL THERMOSTATIC MIXING VALVE EQUAL TO POWERS e480 SERIES, CONFORMING TO ASSE 1070. SET OUTLET AT 105'.	1–1/2"	1–1/2"	1/2"	1/2"
SK–1	SINK–25"x22"x6–1/2"D STAINLESS STEEL, SINGLE BOWL, (3) HOLE PUNCH WITH FAUCET, 8" CENTERS, SWING SPOUT, CUP STRAINER, SUPPLIES & TRAP.	1–1/2"	1–1/2"	1/2"	1/2"
WS–1	HAIR WASHING STATION SUPPLIED BY OTHERS	IND W	–	1/2"	1/2"

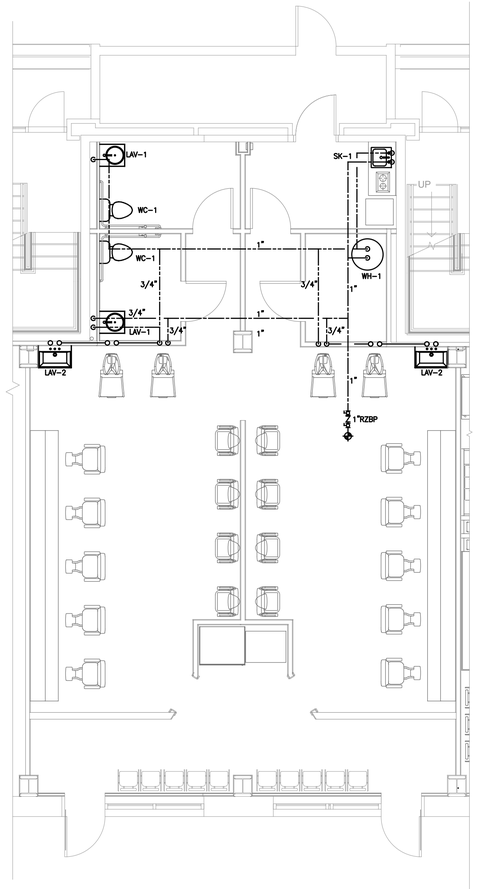
WATER HEATER SCHEDULE

MARK	MODEL NUMBER	STORAGE CAPACITY (GAL)	RECOVERY 90° RISE (GPH)	NATURAL GAS INPUT (MBH)	UEF	ELECTRIC			EXPANSION TANK		NOTES
						HEATING ELEMENTS	VOLTS	PHASE	MODEL NUMBER	CAP. (GAL)	
WH–1	A.O. SMITH DRE–52–24	50	91	–	–	24 KW	208	3	AMTROL ST–5	2	1, 2, 3

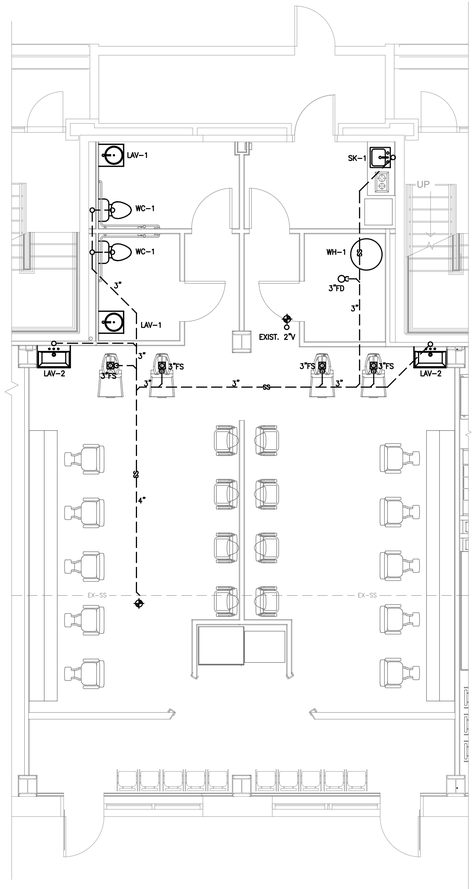
NOTES:
1 MEETS THE STANDBY LOSS REQUIREMENTS OF THE U.S. DEPARTMENT OF ENERGY AND CURRENT EDITION OF ASHRAE/IESNA 90.1.
2 INSTALL EXPANSION TANK IN COLD WATER SUPPLY TO WATER HEATER.
3 INSTALL T&P RELIEF VALVE & PIPE DISCHARGE TO FLOOR DRAIN OR MOP SINK.

PLUMBING LEGEND

- SS — ABOVE FLOOR SOIL, WASTE OR SANITARY PIPING (SAN)
- SS — BELOW FLOOR SOIL, WASTE OR SANITARY PIPING (SAN)
- VENT PIPING (V)
- DOMESTIC COLD WATER PIPING (CW)
- DOMESTIC HOT WATER PIPING (HW)
- GATE VALVE
- CHECK VALVE
- BALL VALVE
- UNION
- WATER HAMMER ARRESTER (WHA)
- FD FLOOR DRAIN
- FS FLOOR SINK
- VTR VENT THRU ROOF
- RZBP REDUCED ZONE BACKFLOW PREVENTER
- CO CLEAN OUT
- AFF ABOVE FINISH FLOOR
- POINT OF CONNECTION
- (1) EQUIPMENT ID SYMBOL



WATER PIPING
FLOOR PLAN
SCALE: 3/16" = 1'-0"



SAN, W & V PIPING
FLOOR PLAN
SCALE: 3/16" = 1'-0"

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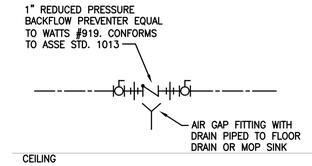
SHEET TITLE:
PLUMBING FLOOR PLANS & SPECIFICATIONS

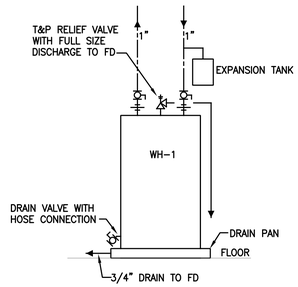
DRN:	CHK:	CAD REF:
REB	SMG	14361P–1
DATE: 01–21–19		JOB NO. 14361

SHEET No.:
P–1



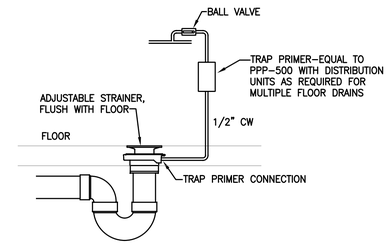
WATER SERVICE SCHEMATIC

NO SCALE



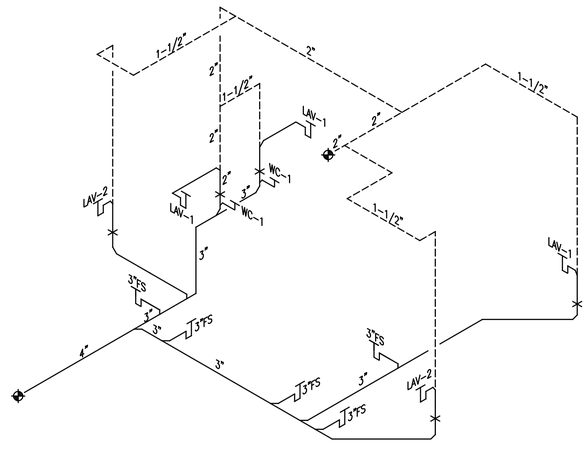
WATER HEATER DIAGRAM

SCALE: NONE



TYP. FLOOR DRAIN DETAIL

NO SCALE



SAN, W & V ISOMETRIC

SCALE: NONE

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SHEET TITLE:
PLUMBING DETAILS

DRN:	CHK:	CAD REF:
REB	SMG	14361P-1

DATE:	JOB NO.
01/21/19	14362

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P-2