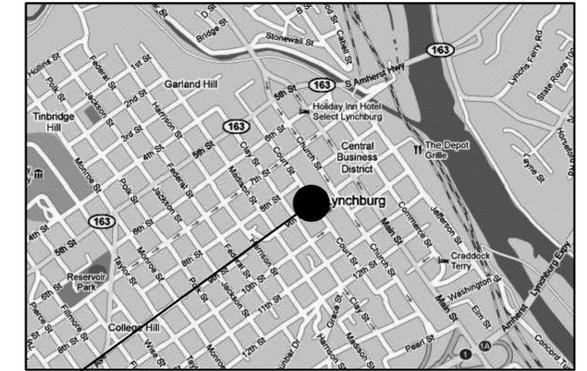
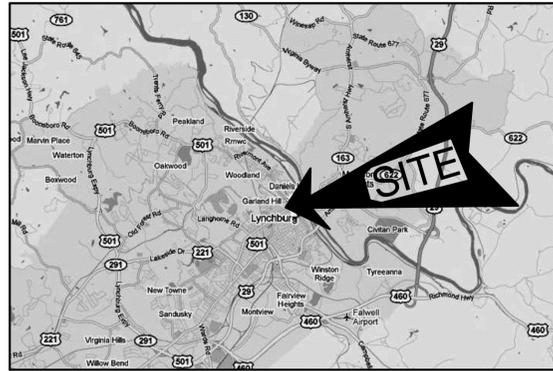


CITY OF LYNCHBURG PUBLIC SAFETY BUILDING BASEMENT INTERIOR RENOVATIONS LYNCHBURG, VIRGINIA

FOR CONSTRUCTION
FEBRUARY 26, 2015



GENERAL NOTES:

- THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED FOR USE AS FABRICATION DRAWINGS. THESE DRAWINGS INDICATE THE GENERAL AND APPROXIMATE SIZE AND LOCATION OF MATERIAL. FIELD VERIFY ALL DIMENSIONS AND LOCATIONS PRIOR TO BEGINNING WORK. ALL UTILITIES NOTED ON PLANS ARE APPROXIMATE AND CONTRACTOR SHALL FIELD VERIFY LOCATION.
- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS, INCLUDING, BUT NOT LIMITED TO, THE 2012 VIRGINIA UNIFORM STATEWIDE BUILDING CODE (JULY 14, 2014) AND ASSOCIATED CODES OF REFERENCE. REFER TO APPLICABLE CODES LIST THIS DRAWING.
- CONTRACTOR SHALL OBTAIN ALL BUILDING AND TRADE PERMITS FOR CONSTRUCTION; HOWEVER, THE CITY OF LYNCHBURG SHALL WAIVE ALL FEES REQUIRED FOR PERMITS.
- ALL MATERIAL SHALL BE NEW UNLESS OTHERWISE NOTED. MATERIALS ARE BASED ON THE INDICATED MANUFACTURERS/MODELS AND ARE INTENDED ONLY TO SHOW THE GENERAL SIZE, CONFIGURATION, LOCATION, CONNECTIONS, AND SUPPORT FOR INDICATED MATERIAL WITH RELATION TO OTHER BUILDING SYSTEMS. MATERIAL BY ANY MANUFACTURER THAT MEETS THE SCHEDULED CRITERIA IS ACCEPTABLE. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ACTUAL INSTALLED MATERIAL AND ASSOCIATED CHANGES.
- CONTRACTOR SHALL COORDINATE THE WORK WITH EXISTING CONDITIONS, INCLUDING BEAMS, COLUMNS, SITE FEATURES, AND OTHER OBSTRUCTIONS, WHETHER OR NOT SUCH IS SHOWN ON DRAWINGS.
- CONTRACTOR SHALL COORDINATE THE WORK BETWEEN ALL TRADES. MATERIAL LOCATIONS SHALL BE COORDINATED BETWEEN ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND DEMOLITION PLANS TO AVOID CONFLICTS.
- EXISTING MATERIAL TO BE REMOVED SHALL BE REMOVED CAREFULLY TO AVOID DAMAGING MATERIAL TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE THAT OCCURS TO EXISTING MATERIAL TO REMAIN OR TO BE RELOCATED DURING DEMOLITION AND CONSTRUCTION.
- CONTRACTOR SHALL ADVISE THE A/E IMMEDIATELY OF DISCREPANCIES FOUND ON THE DRAWINGS, IN THE SPECIFICATIONS, OR BETWEEN THE TWO. NEITHER THE DRAWINGS NOR THE SPECIFICATIONS HAVE PRIORITY OVER THE OTHER AND TOGETHER FORM A COMPREHENSIVE SET OF CONSTRUCTION DOCUMENTS. MINOR DEVIATIONS FROM THE PLANS MAY BE MADE TO AVOID MINOR CONFLICTS. WHERE MAJOR CONFLICTS ARE ENCOUNTERED, THE AFFECTED WORK SHALL NOT BE INSTALLED UNTIL THE CONFLICT HAS BEEN RESOLVED. NEITHER THE A/E NOR THE OWNER SHALL BE RESPONSIBLE FOR CONSEQUENCES OF PROCEEDING WITH WORK BASED ON CONTRACTOR INTERPRETATION OR ON DIRECTION FROM OTHER PARTIES, INCLUDING THE OWNER AND INSPECTORS.
- ALL MATERIAL SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, MAINTAINING ALL REQUIRED CLEARANCES AND WITH ALL COMPONENTS ACCESSIBLE AND SERVICEABLE.
- CONTRACTOR SHALL PROVIDE MATERIAL DATA SUBMITTALS FOR ALL NEW MATERIAL. REFER TO INDIVIDUAL SHEETS FOR ADDITIONAL SUBMITTAL REQUIREMENTS. A LIST OF SUBMITTALS IS PROVIDED ON THIS DRAWING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ASSEMBLING OPERATION AND MAINTENANCE MANUALS CONTAINING ALL MATERIAL SUBMITTALS, INSTALLATION AND OPERATING INSTRUCTIONS, AND WARRANTY INFORMATION. THREE (3) HARD COPIES AND TWO (2) ELECTRONIC (PDF) COPIES OF O&M MANUALS SHALL BE SUBMITTED TO THE A/E AT THE TIME OF SUBSTANTIAL COMPLETION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A SET OF AS-BUILT DRAWINGS ON SITE WHICH INDICATE IN RED ALL DEVIATIONS FROM ORIGINAL CONSTRUCTION DOCUMENTS, INCLUDING APPROVED CONSTRUCTION CHANGE ORDERS. AS-BUILT DRAWINGS SHALL BE CLEARLY LEGIBLE AND COMPLETE. THE CONTRACTOR SHALL PROVIDE AN UPDATED SET OF AS-BUILT DRAWINGS AT PROGRESS MEETINGS. AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE A/E AT THE TIME OF SUBSTANTIAL COMPLETION.
- CONTRACTOR SHALL KEEP PUBLIC AREAS FREE OF TRASH AND CONSTRUCTION DEBRIS AND CLEAN ENTIRE WORK AREA ON A DAILY BASIS.
- TEMPORARY POWER AND WATER SERVICE ARE AVAILABLE ON SITE FOR THE CONTRACTOR'S USE. CONTRACTOR SHALL COORDINATE ACCESS WITH OWNER AND SHALL PROVIDE ANY REQUIRED TEMPORARY CONNECTIONS AND EXTENSIONS.
- CONTRACTOR'S PERSONNEL MAY USE THE TOILET FACILITIES IN THE BUILDING FOR THE DURATION OF THE PROJECT.
- CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH THE SCOPE OF WORK AND TO VERIFY EXISTING CONDITIONS PRIOR TO BIDDING THIS PROJECT. ANY DISCREPANCIES OR AMBIGUOUS ITEMS MUST BE REPORTED TO THE A/E AND THE OWNER FOR CLARIFICATION PRIOR TO BIDDING.
- CONTRACTOR IS TYPICALLY PERMITTED TO WORK BETWEEN 7:00 AM AND 6:00 PM MONDAY THRU FRIDAY. WORK OUTSIDE THESE HOURS SHALL BE COORDINATED WITH OWNER'S PROJECT MANAGER DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH OWNER AND BUILDING TENANTS FOR SPECIAL EVENTS.
- CONTRACTOR SHALL PROVIDE A DUST-PROOF BARRIER BETWEEN THE CONSTRUCTION ZONE AND OCCUPIED PORTIONS OF THE BUILDING. CONTRACTOR SHALL FILTER EXISTING HVAC GRILLES IN WORK AREA TO MITIGATE SPREAD OF DUST INTO OCCUPIED AREAS OF THE BUILDING.
- CONTRACTOR SHALL PROTECT THE BUILDING, ADJACENT FEATURES, ROADWAYS, WALKWAYS, SITE IMPROVEMENTS, EXTERIOR PLANTINGS, LANDSCAPING, ETC. AS REQUIRED FROM DAMAGE AND CORRECT DAMAGE RESULTING FROM CONSTRUCTION ACTIVITIES TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL COLLECT DEMOLISHED MATERIALS AND PLACE IN APPROPRIATE DISPOSAL CONTAINERS. DEMOLISHED MATERIALS SHALL BE PROMPTLY REMOVED FROM THE OWNER'S PROPERTY AND DISPOSED OF LEGALLY.
- CONTRACTOR SHALL COORDINATE MATERIAL STORAGE AND DUMPSTER LOCATION WITH OWNER DURING CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE PRE-DEMOLITION PHOTOGRAPHIC OR VIDEOGRAPHIC DOCUMENTATION TO SHOW EXISTING CONDITIONS OF FINISHED SURFACES IN WORK AREA AND ADJOINING CONSTRUCTION INCLUDING SITE STORAGE AND ACCESS AREAS PRIOR TO PRE-CONSTRUCTION MEETING AND A MINIMUM OF 10 WORKING DAYS PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL NOTIFY OWNER OF ANY INTERRUPTION OF UTILITIES INCLUDING BUT NOT LIMITED TO POWER, WATER, COMMUNICATIONS, ETC AND COORDINATE OUTAGE WITH OWNER AND ALL BUILDING TENANTS.
- DEFINITIONS:
FURNISH: SUPPLY AND DELIVER TO PROJECT SITE FOR INSTALLATION BY OTHERS.
INSTALL: INSTALL ITEMS FURNISHED BY OTHERS, INCLUDING UNLOADING, TEMPORARILY STORING, UNPACKING, AND ASSEMBLY.
PROVIDE: FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
REMOVE: DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF THEM OFF-SITE UNLESS INDICATED TO BE REMOVED AND SALVAGED OR REMOVED AND REINSTALLED.
REMOVE AND REINSTALL: DETACH ITEMS FROM EXISTING CONSTRUCTION, PREPARE FOR REUSE, AND REINSTALL WHERE INDICATED.
REMOVE AND SALVAGE: CAREFULLY DETACH FROM EXISTING CONSTRUCTION, IN A MANNER TO PREVENT DAMAGE, AND DELIVER TO OWNER.

DRAWING LIST:

| DRAWING NO | TITLE |
|------------|---|
| T1 | TITLE SHEET |
| D1 | PARTIAL BASEMENT DEMOLITION PLANS |
| D2 | PARTIAL BASEMENT REFLECTED CEILING DEMOLITION PLANS |
| A1 | LEGEND AND SPECIFICATIONS |
| A2 | PARTIAL BASEMENT FLOOR PLANS |
| A3 | PARTIAL BASEMENT REFLECTED CEILING PLANS |
| A4 | SPECIFICATIONS |
| M1 | LEGEND, SPECIFICATIONS, AND SCHEDULES |
| M2 | HVAC PLAN, NOTES, AND SCHEDULES |
| P1 | LEGEND AND SPECIFICATIONS |
| P2 | PLUMBING PLANS AND NOTES |
| E1 | LEGEND AND SPECIFICATIONS |
| E2 | POWER PLAN, NOTES, AND SCHEDULE |
| E3 | LIGHTING PLAN, NOTES, AND SCHEDULE |

SUBMITTALS LIST:

SUBMITTALS LIST TO BE VERIFIED BY CONTRACTOR WITH REQUIREMENTS THROUGHOUT THE CONSTRUCTION DOCUMENTS:

- ADMINISTRATIVE**
- WORK SCHEDULE
 - SCHEDULE OF VALUES

- ARCHITECTURAL**
- PAINT PRODUCTS
 - WALL AND FLOOR TILE SYSTEM INCLUDING SETTING MATERIALS, GROUT, AND WATERPROOFING
 - ACOUSTICAL CEILING SYSTEM
 - SHOWER VALVE ACCESS PANEL

- MECHANICAL/PLUMBING**
- AIR DEVICES
 - TESTING AND BALANCING REPORT
 - PLUMBING FIXTURES
 - PIPING AND INSULATION
 - CONTROLS

- ELECTRICAL**
- RECEPTACLES AND DEVICES
 - SURFACE RACEWAY PRODUCTS (WIREMOLD)
 - LIGHT FIXTURES AND LAMPS

GENERAL INFORMATION:

| | |
|--|---|
| PROJECT INFORMATION: | CITY OF LYNCHBURG |
| AGENCY: | PUBLIC SAFETY BUILDING - BASEMENT INTERIOR RENOVATIONS |
| PROJECT TITLE: | LYNCHBURG POLICE DEPARTMENT |
| INSTITUTION: | 905 COURT STREET, LYNCHBURG, VIRGINIA 24504 |
| ADDRESS: | |
| BUILDING INFORMATION: | |
| WORK PERMITTED: | INTERIOR RENOVATIONS TO APPROXIMATELY 635 GROSS SQUARE FEET OF EXISTING BUILDING |
| PURPOSE/OCCUPANCY: | OFFICE OCCUPANCY |
| USE GROUP CLASSIFICATION: | (B) BUSINESS OCCUPANCY |
| APPLICABLE CODES & STANDARDS: | |
| BUILDING CODES: | 2012 VIRGINIA UNIFORM STATEWIDE BUILDING CODE - VUSBC (EFFECTIVE JULY 14, 2014) VIRGINIA MECHANICAL CODE - VMC (2012) VIRGINIA PLUMBING CODE - VPC (2012) NATIONAL ELECTRICAL CODE - NFPA-70 (2011) NATIONAL FIRE ALARM CODE - NFPA-72 (2010) |

ASBESTOS DISCLOSURE STATEMENT:

AN ASBESTOS INSPECTION WAS NOT PERFORMED. THE CONTRACTOR SHALL NOTIFY THE CITY'S PROJECT MANAGER OF ANY SUSPECTED MATERIALS FOR REMOVAL BY THE CITY OF LYNCHBURG.

LEAD PAINT DISCLOSURE STATEMENT:

A LEAD-BASED PAINT INSPECTION WAS NOT PERFORMED. THE CONTRACTOR SHALL NOTIFY THE CITY'S PROJECT MANAGER OF ANY SUSPECTED MATERIALS FOR REMOVAL BY THE CITY OF LYNCHBURG.

DISCLAIMER STATEMENT:

VIRGINIA A&E ASSUMES NO RESPONSIBILITY FOR THE ADEQUACY OR ACCURACY OF THE ASBESTOS AND LEAD BASED PAINT INFORMATION PROVIDED ABOVE BY THE OWNER. THE CONTRACTOR SHALL ADDRESS ANY RELATED QUESTIONS TO THE OWNER'S PROJECT MANAGER.

APPLIANCE ALLOWANCES:

ALLOWANCE A: REFRIGERATOR:
PROVIDE 22 CU. FT. MINIMUM, SIDE BY SIDE REFRIGERATOR WITH SINGLE ICE MAKER IN WHITE. QUANTITY OF 1 EACH @ \$1,200. CONTRACTOR SHALL VERIFY SELECTION WITH OWNER PRIOR TO PURCHASE.

ALLOWANCE B: RANGE:
PROVIDE 4.8 CU. FT. MINIMUM, SELF-CLEANING ELECTRIC RANGE IN WHITE. QUANTITY OF 1 EACH @ \$500. CONTRACTOR SHALL VERIFY SELECTION WITH OWNER PRIOR TO PURCHASE.

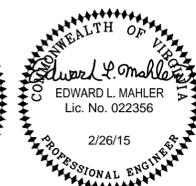
ALLOWANCE C: MICROWAVE:
PROVIDE 1.6 CU. FT. MINIMUM, OVER-THE-RANGE MICROWAVE IN WHITE. QUANTITY OF 1 EACH @ \$300. CONTRACTOR SHALL VERIFY SELECTION WITH OWNER PRIOR TO PURCHASE.

ALLOWANCES INCLUDE COST OF PURCHASE AND DELIVERY. HOOKUPS AND INSTALLATION ARE PART OF THE BASE BID AND NOT INCLUDED IN ALLOWANCES.

VIRGINIA A&E, PLLC
1115 VISTA PARK DRIVE
FOREST, VA 24551
PHONE: (434) 316-6001



VAE PROJECT NO: 14111



Job No.: 14111

Drawing No.:

T1

DEMOLITION SYMBOLS LEGEND:

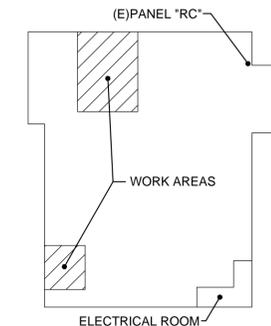
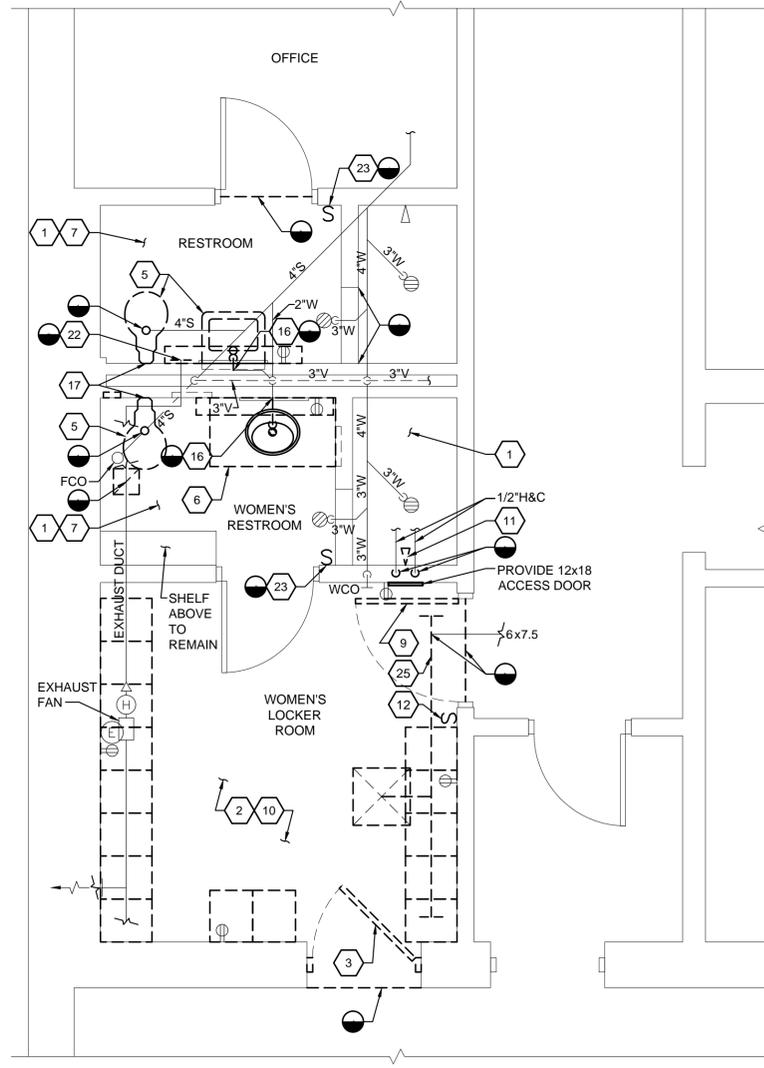
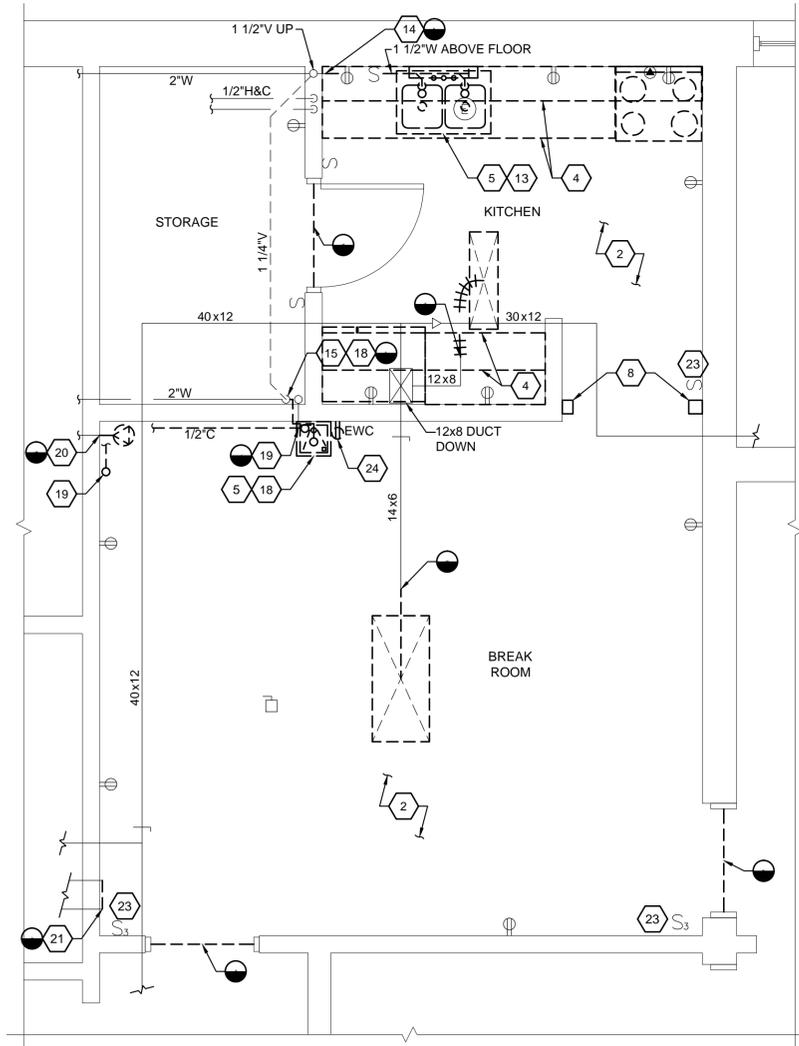
-  DEMOLITION NOTE
-  LIMIT OF DEMOLITION

GENERAL NOTES:

1. REFER TO ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION AND ALTERATION NOTES.
2. CUTTING AND PATCHING:
 - A. ANY EXISTING CONSTRUCTION THAT IS TO BE REMOVED SHALL BE REMOVED CAREFULLY SO AS NOT TO DAMAGE ANY EXISTING CONSTRUCTION THAT IS TO REMAIN. FLOORS, WALLS, AND CEILINGS ARE TO BE PATCHED (IN A RECTANGULAR PATTERN) TO MATCH EXISTING CONDITIONS AND MADE READY TO RECEIVE ANY NEW FINISHES WHERE APPLICABLE.
 - B. WHERE EXISTING FLOORING, CEILING, OR WALL FINISHES ARE TO BE REMOVED AND REPLACED WITH NEW FINISHES, SURFACES SHALL BE STRIPPED CLEAN OF ALL EXISTING FINISHES AND MADE READY TO RECEIVE NEW FINISHES, UNLESS OTHERWISE NOTED.
 - C. ALL FLOOR FINISHES BEING REPLACED SHALL BE COMPLETELY REMOVED AND NEW FLOOR CLEANED AND PROPERLY PREPARED PRIOR TO INSTALLATION OF NEW MATERIAL. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING ALL FLOORS THAT RECEIVE NEW FINISHES PRIOR TO BID. FLOORS SHALL BE PATCHED, FILLED AND STRIPPED AS REQUIRED TO PROVIDE A SMOOTH, DURABLE SURFACE FREE OF ALL BURRS OR ADHESIVE AND SUITABLE FOR APPLICATIONS OF NEW FINISH MATERIAL. ANY UNDERCUTTING OF DOORS REQUIRED TO ACCOMMODATE NEW FLOOR FINISHES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
3. ALL EXISTING FIREPROOFING REMOVED DURING DEMOLITION SHALL BE PATCHED TO MATCH EXISTING.
4. PROTECT FLOOR DRAINS DURING CONSTRUCTION. COVER TO PREVENT OBJECTS FROM ENTERING.
5. OWNER WILL REMOVE APPLIANCES PRIOR TO CONSTRUCTION.
6. OWNER WILL RELOCATE VENDING AND ICE MACHINES PRIOR TO CONSTRUCTION. OWNER TO REMOVE LEGS FROM ICE MAKER PRIOR TO REINSTALLATION.
7. OWNER WILL REMOVE MATERIALS FROM THE STORAGE ROOM PRIOR TO DEMOLITION.
8. TAKE AIR FLOW READINGS FOR EACH AIR DEVICE BEING REPLACED. RECORD FINDINGS AND PROVIDE A COPY TO OWNER AND A/E. PROVIDE THIS DURING DEMOLITION PHASE.

DEMOLITION NOTES:

1. REMOVE FLOOR TILES, BASE, AND GROUT, INCLUDING ON SIDES AND TOP OF SHOWER CURB, TO BARE CONCRETE.
2. REMOVE VINYL COMPOSITION TILE SYSTEM TO BARE CONCRETE. CUT STRAIGHT LINE. DO NOT DISTURB VCT WITHIN REMAINING CORRIDOR OR ADJACENT SPACES.
3. REMOVE DOOR AND FRAME.
4. REMOVE BASE AND WALL CABINETS AND ALL ASSOCIATED HARDWARE
5. REMOVE PLUMBING FIXTURE.
6. REMOVE VANITY, SINK, AND ALL ASSOCIATED HARDWARE.
7. REMOVE TOILET ACCESSORIES, INCLUDING, BUT NOT LIMITED TO, TOILET TISSUE DISPENSER, SOAP DISPENSER, AND WASTE RECEPTACLE. RETAIN MIRRORS, PAPER TOWEL DISPENSERS, AND FEMININE NAPKIN DISPENSER/DISPOSAL.
8. REMOVE PARTITION WALL.
9. REMOVE AND REINSTALL DOOR. REMOVE HARDWARE.
10. REMOVE AND REINSTALL LOCKERS, BASES, AND ATTACHMENT HARDWARE.
11. REMOVE SHOWER HEAD AND HANDLE/VALVE ASSEMBLY. REMOVE PORTION OF CMU WALL AS REQUIRED TO ACCESS VALVE AND PIPING. PROVIDE SHUT OFF VALVES ON HOT AND COLD WATER. SEE PLUMBING SCHEDULE FOR NEW SHOWER VALVES AND TRIM. PROVIDE ACCESS DOOR AND PREPARE FOR NEW WORK.
12. REMOVE SWITCH, BACK BOX AND CONDUIT. RETAIN CABLE FOR RE-USE.
13. REMOVE WATER FAUCETS AND PIPING TO STOP VALVE UNDER SINK.
14. REMOVE CROSS OVER DRAIN PIPE AND WASTE PIPING TO FIRST FITTING ON THE KITCHEN SIDE OF THE WALL. TEMPORARILY CAP DRAIN PIPE TO PREPARE FOR NEW WORK. REDLINE DRAWINGS WITH MARKING SHOWING THE CENTERLINE OF WASTE PIPE PENETRATION LOCATION IF DIFFERENT THAN INDICATED.
15. REMOVE DRAIN PIPE AND WASTE PIPING TO FIRST FITTING ON THE INSIDE SIDE OF THE WALL.
16. REMOVE DRAIN PIPE AND WASTE PIPING TO FIRST FITTING ON THE BATHROOM SIDE OF THE WALL. TEMPORARILY CAP DRAIN PIPE TO PREPARE FOR NEW WORK INCLUDING REDLINING DRAWINGS WITH MARKING SHOWING THE CENTERLINE OF WASTE PIPE PENETRATION LOCATION (BEHIND EXISTING SINK).
17. REMOVE FIXTURE CONNECTION AND DISABLE FLUSH VALVE.
18. CLEAN AND TEMPORARILY CAP WASTE PLUMBING TO PREPARE FOR NEW WORK ASSOCIATED WITH THE WATER COOLER.
19. REMOVE 1/2 INCH COPPER COLD WATER PIPE SERVING FROM WATER COOLER TO ICE MACHINE. TEMPORARILY CAP COLD WATER PIPE TO PREPARE FOR NEW WORK INCLUDING REDLINING DRAWINGS WITH MARKING SHOWING THE CENTERLINE OF COLD WATER PIPE PENETRATION LOCATION (BEHIND EXISTING WATER COOLER).
20. REMOVE DRAIN LINE AND CONDENSATE PUMP SERVING ICE MACHINE. REMOVE CONDENSATE DRAIN LINE FROM CONDENSATE PUMP AND PATCH WALL.
21. REMOVE SIDEWALL RETURN GRILL AND PREPARE FOR REPLACEMENT FOR NEW WORK. SEE DRAWING M2.
22. REMOVE HIGH SIDEWALL EXHAUST GRILL AND PREPARE FOR REPLACEMENT FOR NEW WORK. SEE DRAWING M2.
23. REMOVE SWITCH DEVICE AND RETAIN BOX. PREPARE FOR NEW WORK.
24. REMOVE RECEPTACLE. RETAIN BACKBOX AND CIRCUIT FOR REUSE.
25. REMOVE RECTANGULAR SUPPLY ABOVE COILING AT WALL PENETRATION. PREPARE FOR NEW WORK. SEE M2.



PARTIAL BASEMENT DEMOLITION PLAN - KITCHEN AREA
SCALE: 3/8"=1'-0"



PARTIAL BASEMENT DEMOLITION PLAN - WOMEN'S LOCKER ROOM
SCALE: 3/8"=1'-0"



KEYPLAN - BASEMENT
SCALE: NONE

| NO. | BY | REVISIONS | DATE |
|-----|----|-----------|------|
| | | | |
| | | | |
| | | | |
| | | | |



**CITY OF LYNCHBURG
PUBLIC SAFETY BUILDING
BASEMENT INTERIOR RENOVATIONS**

LYNCHBURG, VIRGINIA

**PARTIAL BASEMENT
DEMOLITION PLANS**

PROJECT NO.: 14111
DATE: 26 FEB 15

Full Scale Verification
0" = 1"

Drawing No.: **D1**

| LEGEND | | | |
|--|------------------------|---|--|
| MATERIAL | LINETYPES | SYMBOLS | ABBREVIATIONS |
| CAST-IN-PLACE CONCRETE | EXISTING CONSTRUCTION | LETTER INDICATES DETAIL DRAWING NUMBER WHERE DETAIL IS DRAWN | ACT ABOVE FINISHED FLOOR ACU ACOUSTICAL TILE ALT ALTERNATE ALUM ALUMINUM APPROX APPROXIMATE ARCH ARCHITECTURAL AVG AVERAGE BD BOARD BOT BOTTOM BLDG BUILDING CAB CABINET CS CAST STONE CF CUBIC FOOT |
| WALKPADS, LIGHTWEIGHT CONCRETE, GROUT | DEMOLITION | LETTER INDICATES ENLARGED PLAN DRAWING NUMBER WHERE ENLARGED PLAN IS DRAWN | CLG CENTERLINE CLT CEILING CT CERAMIC TILE CLR CLEAR COL COLUMN CONC CONCRETE CMU CONCRETE MASONRY UNIT CONT CONTINUOUS CI CUBIC INCH CY CUBIC YARD DTL DETAIL DIA DIAGONAL DIA, Ø DIAMETER DIM DIMENSION DS DOWNSPOUT DEPT DEPARTMENT DN DOWN DF DRINKING FOUNTAIN DWG DRAWING (E) EXISTING EA EACH ELEC ELECTRIC EWC ELECTRIC WATER COOLER EL ELEVATION (ABOVE SEA LEVEL) ELEV ELEVATION (GRAPHIC) EQ EQUAL EQUIP EQUIPMENT EJ EXPANSION JOINT EXT EXTERIOR FIN FINISH FF FINISH FLOOR FL FLOOR FD FLOOR DRAIN |
| CONCRETE MASONRY | NEW CONSTRUCTION | LETTER INDICATES ELEVATION DRAWING NUMBER WHERE ELEVATION IS DRAWN | FRT FIRE RETARDANT TREATED FT FOOT, FEET GA GAGE GAL GALLONS GALV GALVANIZED GL GLASS GYP GYPSUM GWB GYPSUM WALL BOARD HDWD HARDWOOD HDWR HARDWARE HGT HEIGHT H HIGH HM HOLLOW METAL HORZ HORIZONTAL HR HOUR(S) IN INCHES INFO INFORMATION ID INSIDE DIAMETER INSUL INSULATION INT INTERIOR INV INVERT JT JOINT LAM LAMINATED LAV LAVATORY L LENGTH LF LINEAR FEET MATL MATERIAL MAX MAXIMUM MECH MECHANICAL MTL METAL MEZZ MEZZANINE MIN MINIMUM MISC MISCELLANEOUS MPI MASTER PAINTERS INSTITUTE MR MOISTURE RESISTANT MTG MOUNTING HEIGHT NOM NOMINAL N/A NOT APPLICABLE NIC NOT IN CONTRACT NTS NOT TO SCALE OC ON CENTER OPNG OPENING OH OPPOSITE HAND OZ OUNCE OD OUTSIDE DIAMETER PTD PAINTED PNL PANEL |
| BRICK MASONRY, CHEMICALLY RESISTANT MEMBRANE | LIMITS OF CONSTRUCTION | DEMOLITION NOTE | PART PARTITION PH PHASE PLCS PLACES PLAS PLASTER PL PLATE LBS POUNDS PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH R RADIUS R- THERMAL RESISTANT RATING REF REFER REINF REINFORCING REQD REQUIRED RD ROOF DRAIN RM ROOM SCH SCHEDULE SECT SECTION SHT SHEET SPEC SPECIFICATION SQ SQUARE SF SQUARE FOOT, FEET SS STAINLESS STEEL STD STANDARD STL STEEL STOR STORAGE TB TACKBOARD TEMP TEMPERATURE KIP FT THOUSAND FOOT LBS KIP THOUSAND POUNDS THRES THRESHOLD TLT TOILET T&G TONGUE AND GROOVE TYP TYPICAL UON UNLESS OTHERWISE NOTED VAR VARIABLE VERT VERTICAL VOL VOLUME WC WATER CLOSET WGT WEIGHT WWF WELDED WIRE FABRIC W WIDTH W/ WITH WO WITHOUT WD WOOD WP WORK POINT YD YARD |
| STEEL | MATCHLINE | DRAWING NUMBER WHERE ENLARGED PLAN IS TAKEN | |
| FINISH WOOD | CENTERLINE | NUMBER INDICATES SECTION DRAWING NUMBER WHERE SECTION IS DRAWN | |
| PLYWOOD | CENTERLINE | DRAWING NUMBER WHERE SECTION IS TAKEN | |
| RIGID INSULATION | CONDITION ABOVE/BELOW | REVISION TRIANGLE REVISION CLOUD | |
| GYPSUM WALL BOARD | RATED WALL TYPE 1 | | |
| BATT INSULATION | RATED WALL TYPE 2 | | |
| EXTENT OF (E) CONSTRUCTION TO BE REPLACED | RATED WALL TYPE 3 | | |
| SEALANT | RATED WALL TYPE 4 | | |
| WOOD BLOCKING | | | |
| CONTINUOUS WOOD, STUD | | | |

PAINTING NOTES:

- FOR MATERIAL COMPATIBILITY, PROVIDE MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER, WITH SUBSTRATES, AND WITH EXISTING SURFACE FINISHES.
- FOR EACH COAT IN A PAINT SYSTEM, PROVIDE PRODUCTS RECOMMENDED IN WRITING BY MANUFACTURERS OF TOPCOAT FOR USE IN PAINT SYSTEM AND ON SUBSTRATE INDICATED.
- COLORS SHALL BE AS SELECTED BY OWNER FROM MANUFACTURER'S FULL RANGE. OWNER MAY SELECT UP TO FIVE COLORS.

PREPARATION:

- REMOVE HARDWARE, LIGHTING FIXTURES, TOILET ACCESSORIES, AND SIMILAR ITEMS THAT ARE NOT TO BE PAINTED. MASK ITEMS THAT CANNOT BE REMOVED. DO NOT PAINT HINGES, HANDLES, KICK PLATES, RECEPTACLES, SWITCHES, COVERS, FIXTURES, OR EQUIPMENT.
- REINSTALL ITEMS IN EACH AREA AFTER PAINTING IS COMPLETE.
- CLEAN AND PREPARE SURFACES IN AN AREA BEFORE BEGINNING PAINTING IN THAT AREA. SCHEDULE PAINTING SO CLEANING OPERATIONS WILL NOT DAMAGE NEWLY PAINTED SURFACES.

APPLICATION:

- APPLY PAINTS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. USE BRUSHES ONLY WHERE THE USE OF OTHER APPLICATORS IS NOT PRACTICAL. USE ROLLERS FOR FINISH COAT ON INTERIOR WALLS AND CEILINGS. USE AIRLESS SPRAYERS TO APPLY DRYFALL PRIME AND FINISH COATS TO EXPOSED CEILING AREAS.
- APPLY PAINTS TO PRODUCE SURFACE FILMS WITHOUT CLOUDINESS, SPOTTING, HOLIDAYS, LAPS, BRUSH MARKS, ROLLER TRACKING, RUNS, SAGS, ROPINESS, OR OTHER SURFACE IMPERFECTIONS. CUT IN SHARP LINES AND COLOR BREAKS.
- IF UNDERCOATS OR OTHER CONDITIONS SHOW THROUGH TOPCOAT, APPLY ADDITIONAL COATS UNTIL CURED FILM HAS A UNIFORM PAINT FINISH, COLOR, AND APPEARANCE.

PAINT APPLICATION SCHEDULE:

- FOR UNFINISHED CONCRETE MASONRY UNITS, FINISH WITH TWO COATS LATEX OVER LATEX BLOCK FILLER THAT COMPLIES WITH MPI INT 4.2A, GLOSS LEVEL G5.
- FOR PREVIOUSLY PAINTED CONCRETE OR CONCRETE MASONRY UNITS, FINISH WITH TWO COATS LATEX THAT COMPLIES WITH MPI RIN 4.2A, GLOSS LEVEL G5.
- FINISH STEEL DOORS WITH TWO COATS SEMIGLOSS, QUICK-DRY ENAMEL OVER QUICK-DRYING ALKYD METAL PRIMER THAT COMPLIES WITH MPI RIN 5.1A.
- FINISH GYPSUM BOARD SURFACES WITH TWO COATS LATEX OVER ONE COAT LATEX PRIMER THAT COMPLIES WITH MPI RIN 9.2A, GLOSS LEVEL G5.

CERAMIC TILE NOTES:

A. CERAMIC TILE:

- PROVIDE TILE THAT COMPLIES WITH ANSI A137.1.
- PAVER TILE SHALL BE UNGLAZED, VITREOUS OR IMPERVIOUS NATURAL CLAY OR PORCELAIN FLAT TILE. FACIAL DIMENSIONS SHALL BE 11-13/16 BY 11-13/16 INCHES. THICKNESS SHALL BE 3/8 INCH. COLOR SHALL BE AS SELECTED BY OWNER AND A/E FROM MANUFACTURER'S STANDARD FULL PRODUCT RANGE.
- GLAZED WALL TILE SHALL BE CUSHION-EDGED, FLAT TILE. FACIAL DIMENSIONS SHALL BE 6 BY 6 INCHES. TILE AND GROUT COLOR SHALL BE AS SELECTED BY OWNER AND A/E FROM MANUFACTURER'S STANDARD FULL PRODUCT RANGE. FINISH SHALL BE SEMI-MAT, OPAQUE GLAZE. TILES MOUNTED BY MANUFACTURER'S STANDARD PRE-GROUTED METHOD INTO SHEETS AND GROUTED WITH MANUFACTURER'S STANDARD SILICONE RUBBER.
- GLAZED WALL TILE TRIM UNITS SHALL HAVE MATCHING CHARACTERISTICS OF ADJOINING FLAT TILE AND COORDINATED WITH SIZES AND COURSING OF ADJOINING FLAT TILE WHERE APPLICABLE. BASE SHALL BE STRAIGHT, MODULE SIZE MATCHING WALL TILE. WAINSCOT CAP SHALL BE SURFACE BULLNOSE, MODULE SIZE. EXTERNAL CORNERS SHALL BE SURFACE BULLNOSE.

- FOR FLOOR TILE, PROVIDE PRODUCTS WITH A MINIMUM STATIC COEFFICIENT OF FRICTION OF 0.6 PER ASTM C 1028.
- SUBMIT FULL-SIZE UNITS OF EACH TYPE AND COMPOSITION OF TILE AND TRIM FOR VERIFICATION. SUBMIT PRODUCT INFORMATIONAL MATERIAL FOR TILE-SETTING, GROUTING, AND WATERPROOFING PRODUCTS.

B. INSTALLATION METHODS AND MATERIALS:

- FILL CRACKS, HOLES, AND DEPRESSIONS IN CONCRETE SUBSTRATES WITH TROWELABLE LEVELING AND PATCHING COMPOUND SPECIFICALLY RECOMMENDED BY TILE-SETTING MANUFACTURER.
- WHERE SLOPE IS INDICATED, PREPARE SUBSTRATES TO RECEIVE WATERPROOFING BY APPLYING A REINFORCED MORTAR BED THAT COMPLIES WITH ANSI A108.1A AND IS SLOPED 1/4 INCH PER FOOT TOWARD DRAINS.
- VOC LIMIT FOR ADHESIVES AND FLUID-APPLIED WATERPROOFING MEMBRANE IS 65 G/L WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
- WATERPROOFING MEMBRANES FOR THIN-SET INSTALLATIONS SHALL COMPLY WITH ANSI A118.10, FABRIC-FACED POLYMER SHEET PRODUCT. SETTING AND GROUTING MATERIALS SHALL COMPLY WITH MATERIAL STANDARDS IN ANSI'S "SPECIFICATIONS FOR THE INSTALLATION OF CERAMIC TILE" THAT APPLY TO MATERIALS AND METHODS INDICATED.
- THIN-SET MORTAR TYPE SHALL BE LATEX-PORTLAND CEMENT THAT COMPLIES WITH ANSI A118.4. GROUT TYPE SHALL BE STANDARD CEMENT THAT COMPLIES WITH ANSI A108.10 UNLESS OTHERWISE INDICATED. GROUT COLOR SHALL BE AS SELECTED BY OWNER / A/E FROM MANUFACTURER'S STANDARD FULL PRODUCT RANGE.
- COMPLY WITH TILE INSTALLATION STANDARDS IN ANSI'S A108 SERIES "SPECIFICATIONS FOR THE INSTALLATION OF CERAMIC TILE", AND WITH TCA'S "HANDBOOK FOR CERAMIC TILE INSTALLATION."

- DO NOT INSTALL TILE OVER WATERPROOFING UNTIL WATERPROOFING HAS CURED AND BEEN TESTED TO DETERMINE THAT IT IS WATERTIGHT.
- LAY TILE IN GRID PATTERN, UNLESS OTHERWISE INDICATED. ALIGN JOINTS WHERE ADJOINING TILES ON FLOOR, BASE, WALLS, AND TRIM ARE THE SAME SIZE.
- PERFORM CUTTING AND DRILLING OF TILE WITHOUT MARRING VISIBLE SURFACES. CAREFULLY GRIND CUT EDGES OF TILE ABUTTING TRIM, FINISH, OR BUILT-IN ITEMS FOR STRAIGHT ALIGNED JOINTS. FIT TILE CLOSELY TO ELECTRICAL OUTLETS, PIPING, FIXTURES, AND OTHER PENETRATIONS SO PLATES, COLLARS, OR COVERS OVERLAP TILE.
- ON COMPLETION OF PLACEMENT AND GROUTING, CLEAN ALL CERAMIC TILE SURFACES SO THEY ARE FREE OF FOREIGN MATTER. PROVIDE TEMPORARY TILE PROTECTION DURING INSTALLATION.

DATE

REVISIONS

BY

NO.

Virginia A & E

VIRGINIA A&E, PLLC
1115 VISTA PARK DRIVE
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CITY OF LYNCHBURG
PUBLIC SAFETY BUILDING
BASEMENT INTERIOR RENOVATIONS

LYNCHBURG, VIRGINIA

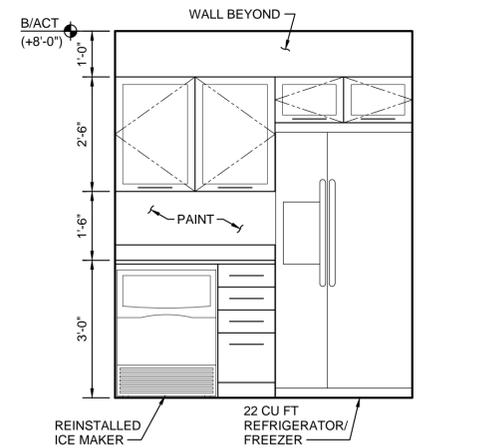
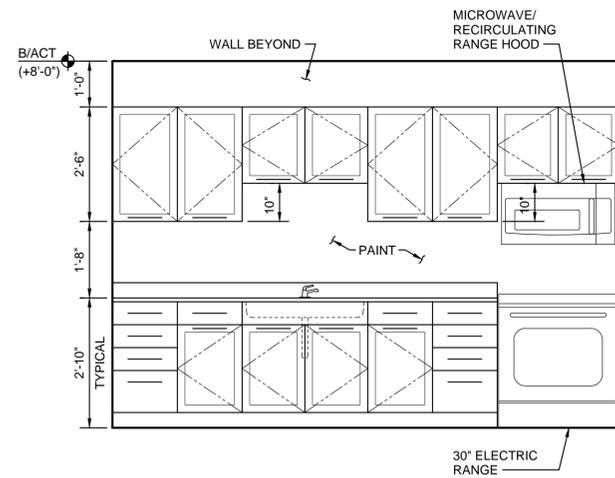
LEGEND AND SPECIFICATIONS

DATE: 26 FEB 15

PROJECT NO: 14111

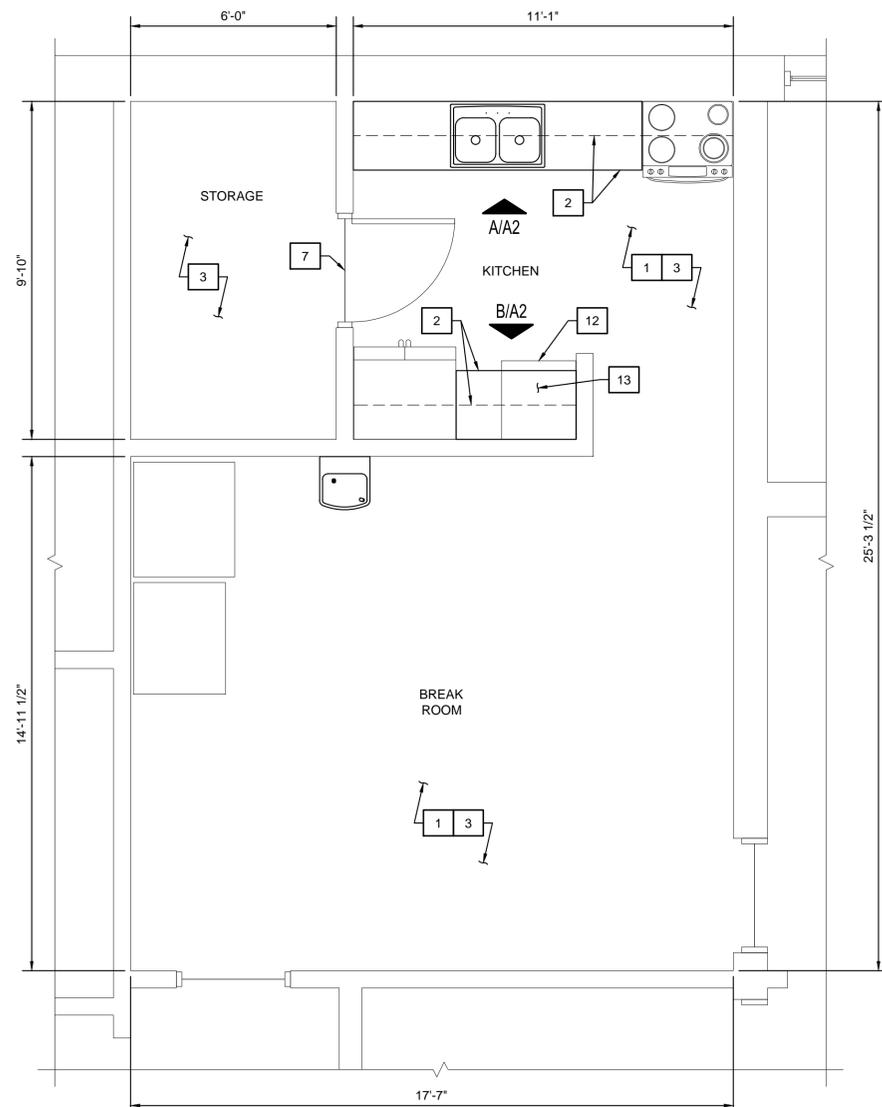
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Drawing No.: **A1**

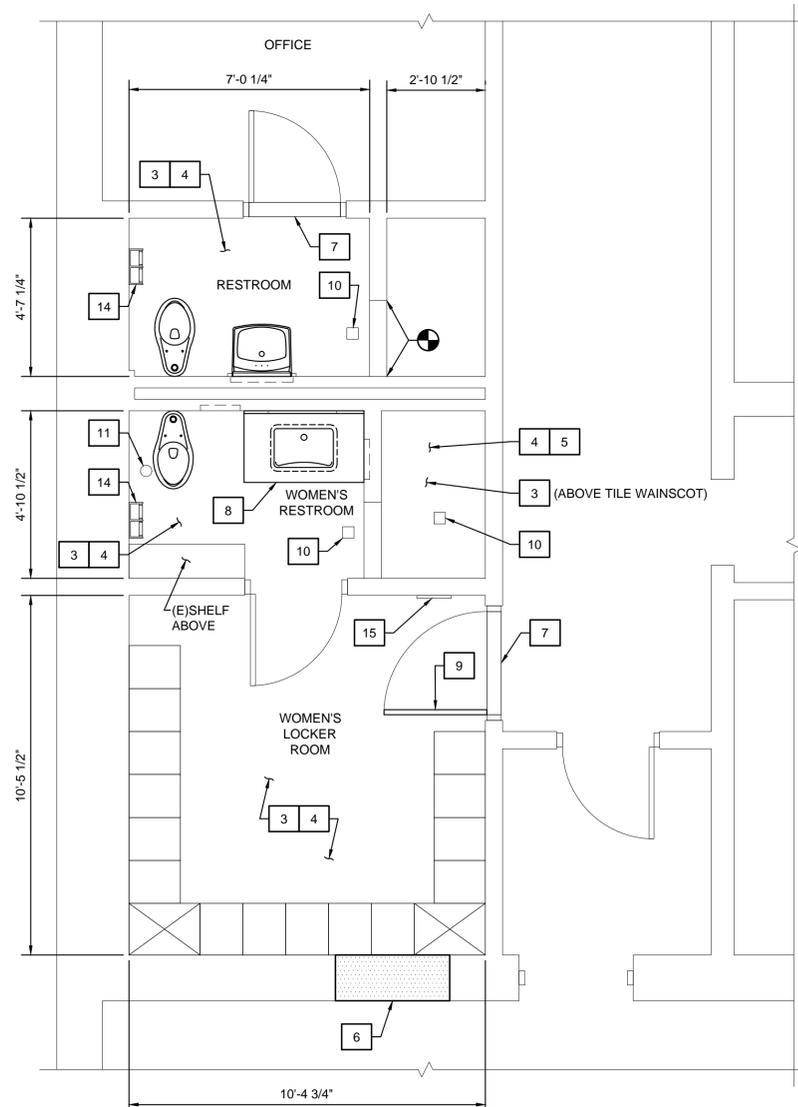


A ELEVATION
SCALE: 1/2"=1'-0"
0 6" 1' 2' 5'

B ELEVATION
SCALE: 1/2"=1'-0"
0 6" 1' 2' 5'



PARTIAL BASEMENT FLOOR PLAN - KITCHEN AREA
SCALE: 3/8"=1'-0"
0 6" 1' 2' 3' 4' 5'



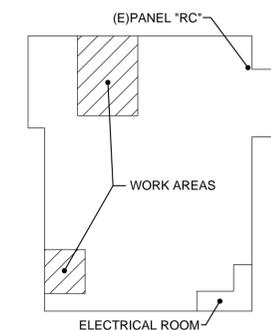
PARTIAL BASEMENT FLOOR PLAN - WOMEN'S LOCKER ROOM
SCALE: 3/8"=1'-0"
0 6" 1' 2' 3' 4' 5'

GENERAL NOTES:

- DIMENSIONS NOTED ON PLAN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.
- REFER TO APPLIANCE ALLOWANCE FOR MICROWAVE/RANGE HOOD, RANGE, AND REFRIGERATOR. FINAL SELECTION TO BE MADE BY OWNER DURING CONSTRUCTION.

CONSTRUCTION NOTES:

- PROVIDE VCT FLOORING AND VINYL BASE TO MATCH EXISTING IN CORRIDOR.
- PROVIDE BASE AND WALL CABINETS.
- CLEAN, PRIME, AND PAINT ALL WALL SURFACES, DOORS, AND FRAMES.
- PROVIDE 12"x12" NOMINAL CERAMIC TILE SYSTEM. PROVIDE POSITIVE SLOPE TO DRAINS IN RESTROOMS. TRIM TILE NEATLY AND FLUSH TO EXISTING DRAIN COVER.
- PROVIDE 6"x6" CERAMIC TILE WAINSCOT WITH EASED EDGE CAP TRIM AND RADIUS COVE BASE. WAINSCOT HEIGHT SHALL BE MAXIMUM NUMBER OF FULL TILE COURSES TO REMAIN BELOW SHOWER VALVES.
- INFILL WALL OPENING WITH CMU TO MATCH ADJACENT SURFACES. FINISH FLUSH AND SMOOTH WITH WALL SURFACES ON BOTH SIDES. MATCH ADJACENT COLOR, TEXTURE, AND FINISH.
- PROVIDE BEVELED EDGE THRESHOLD WITH MAXIMUM HEIGHT OF 1/2" AT FLOOR TRANSITIONS. BASIS OF DESIGN IS PEMKO 158A OFFSET SADDLE.
- PROVIDE 3'-6" BASE CABINET AND COUNTERTOP.
- REVERSE SWING OF EXISTING DOOR. PROVIDE COVER PLATES WHERE HARDWARE IS REMOVED. GRIND SMOOTH AND PAINT TO MATCH ADJACENT FRAME COLOR. PROVIDE HARDWARE TO MATCH EXISTING MANUFACTURER AND FINISH. PROVIDE LEVER HANDLE. KEY LOCKS TO EXISTING MASTER KEY SYSTEM.
- FLOOR DRAIN TO REMAIN.
- FLOOR CLEAN OUT TO REMAIN.
- REINSTALL ICE MAKER. REFER TO PLUMBING AND ELECTRICAL DRAWINGS.
- PROVIDE COUNTERTOP AND BACKSPASH. VERIFY HEIGHT WITH CLEARANCE REQUIRED FOR PROPER MAINTENANCE AND OPERATION OF ICE MAKER.
- PROVIDE DOUBLE ROLL TOILET PAPER DISPENSER. BASIS-OF-DESIGN IS AMERICAN SPECIALTIES 0264-1.
- PROVIDE 12x18 ACCESS DOOR IN CMU WALL FOR SHOWER VALVE. COVER CUT OPENING IN CMU WITH FLANGES AND CAULK THOROUGHLY.



KEYPLAN - BASEMENT
SCALE: NONE

| | | |
|---|--|-----------------|
| | | DATE |
| | | REVISIONS |
| <p>CITY OF LYNCHBURG PUBLIC SAFETY BUILDING BASEMENT INTERIOR RENOVATIONS</p> | | NO. |
| <p>PARTIAL BASEMENT FLOOR PLANS</p> | | BY |
| <p>PROJECT NO.: 14111</p> | | DATE: 26 FEB 15 |
| <p>Full Scale Verification 0" 1"</p> | | |
| <p>Drawing No.: A2</p> | | |

LEGEND

| SYMBOLS | | ABBREVIATIONS | |
|----------|---|---------------|---|
| | SUPPLY/OA DUCT SECTION OR DIFFUSER/GRILLE | | 90° ELBOW UP |
| | RETURN/EXHAUST DUCT SECTION OR DIFFUSER/GRILLE | | 90° ELBOW DOWN |
| | TRANSITION IN DUCT SIZE | | 90° ELBOW WITH TURNING VANES (RECTANGULAR DUCT) |
| | TRANSITION FROM RECTANGULAR TO ROUND | | 90° RADIUS ELBOW (RECTANGULAR DUCT) |
| | MANUAL VOLUME DAMPER | | 45° RADIUS ELBOW (RECTANGULAR DUCT) |
| | MOTOR OPERATED DAMPER | | CONICAL SPIN-IN WITH DAMPER |
| | 45° BRANCH CONNECTION | | 45° BRANCH TO ROUND TAKEOFF CONNECTION |
| | FLEXIBLE DUCTWORK | | RADIUS TEE (RECTANGULAR DUCT) |
| | ACCESS DOOR | | Y FITTING (ROUND DUCT) |
| | FIRE DAMPER IN WALL | | 90° CONICAL TAP |
| | FIRE DAMPER IN FLOOR, CEILING OR ROOF | | 45° CONICAL TAP |
| | WALL MOUNTED THERMOSTAT OR TEMPERATURE SENSOR | | |
| | DUCT SMOKE DETECTOR | | |
| | ABOVE CEILING HUMIDISTAT OR FAN CONTROL | | |
| | AIRFLOW | | |
| | CONSTRUCTION NOTE | | REVISION TRIANGLE |
| | CONNECT TO EXISTING | | REVISION CLOUD |
| | INDICATES NUMBER OF REVISIONS, CORRESPONDS WITH REVISION NOTE | | TAG NO |
| | DIFFUSER/GRILL TAG | | CFM |
| | EQUIPMENT TAG | | |
| | PIPE TURNING DOWN | | PIPE TURNING UP |
| | PIPE TURNING UP | | TEE DOWN |
| | TEE DOWN | | PIPE CAP |
| | PIPE CAP | | PIPE FLOW ARROW |
| | PIPE FLOW ARROW | | CONCENTRIC REDUCER |
| | CONCENTRIC REDUCER | | ECCENTRIC REDUCER |
| | ECCENTRIC REDUCER | | PIPE FLANGE |
| | PIPE FLANGE | | UNION |
| | UNION | | WYE STRAINER |
| | WYE STRAINER | | FLEXIBLE CONNECTOR |
| | FLEXIBLE CONNECTOR | | |
| | AIR VENT (AUTO) | | AIR VENT (MANUAL) |
| | BACKFLOW PREVENTER | | THERMOMETER |
| | THERMOMETER | | PRESSURE GAUGE |
| | PRESSURE GAUGE | | PUMP |
| | TEMPERATURE SENSOR | | FLOW SWITCH |
| | GATE VALVE | | GLOBE VALVE |
| | GLOBE VALVE | | BUTTERFLY VALVE |
| | CHECK VALVE | | PLUG VALVE |
| | BALL VALVE | | CALIBRATED BALANCING VALVE |
| | MOTORIZED 2-WAY VALVE | | MOTORIZED 3-WAY VALVE |
| | PNEUMATIC 2-WAY VALVE | | PNEUMATIC 3-WAY VALVE |
| | PNEUMATIC 3-WAY VALVE | | SOLENOID VALVE |
| | PRESSURE REDUCING VALVE | | SAFETY RELIEF VALVE |
| | SAFETY RELIEF VALVE | | |
| A | AMPERE | FT | FOOT, FEET |
| AFF | ABOVE FINISHED FLOOR | G | GAS |
| AFUE | ANNUAL FUEL UTILIZATION EFFICIENCY | GA | GAGE |
| BHP | BRAKE HORSEPOWER | GAL | GALLONS |
| BOD | BOTTOM OF DUCT | GPH | GALLONS PER HOUR |
| BOP | BOTTOM OF PIPE | GPM | GALLONS PER MINUTE |
| BTU | BRITISH THERMAL UNIT | H | HEIGHT |
| BTUH | BRITISH THERMAL UNIT PER HOUR | HD | HEAD |
| CA | COMPRESSED AIR | HP | HORSEPOWER |
| CF | CHEMICAL FEED, CUBIC FEET | HR | HOUR(S) |
| CFM | CUBIC FEET PER MINUTE | HWR | HEATING WATER RETURN |
| CR | CONDENSER WATER RETURN | HWS | HEATING WATER SUPPLY |
| CS | CONDENSER WATER SUPPLY | HZ | FREQUENCY |
| CWR | CHILLED WATER RETURN | ID | INSIDE DIAMETER |
| CWS | CHILLED WATER SUPPLY | IN | INCHES |
| DIA, Ø | DIAMETER | INWG | INCHES WATER GAUGE |
| DB | DRY BULB | KW | KILOWATT |
| DBA | DECIBELS, A WEIGHTED | L | LENGTH |
| DEG | DEGREE | LAT | LEAVING AIR TEMPERATURE |
| DTR | DUAL TEMPERATURE WATER RETURN | LB | POUND(S) |
| DTS | DUAL TEMPERATURE WATER SUPPLY | LF | LINEAR FEET |
| DX | DIRECT EXPANSION | LPG | LIQUIFIED PETROLEUM GAS (PROPANE) |
| DWG | DRAWING | LWT | LEAVING WATER TEMPERATURE |
| (E) | EXISTING | MAX | MAXIMUM |
| EAT | ENTERING AIR TEMPERATURE | MBH | THOUSAND BTU PER HOUR |
| EER | ENERGY EFFICIENCY RATIO | MCA | MINIMUM CIRCUIT AMPACITY |
| EFF | EFFICIENCY | MCB | MAXIMUM CIRCUIT BREAKER |
| EL, ELEV | ELEVATION | MIN | MINIMUM |
| ESP | EXTERNAL STATIC PRESSURE | MOC | MAXIMUM OVERCURRENT PROTECTION |
| EWT | ENTERING WATER TEMPERATURE | N/A | NOT APPLICABLE |
| °F | DEGREES FAHRENHEIT | NIC | NOT IN CONTRACT |
| FD | FIRE DAMPER | NC | NORMALLY CLOSED |
| FOR | FUEL OIL RETURN | NG | NATURAL GAS |
| FOS | FUEL OIL SUPPLY | NO | NORMALLY OPEN, NUMBER |
| NOM | NOMINAL | | |
| NTS | NOT TO SCALE | | |
| OA | OUTSIDE AIR | | |
| OD | OUTSIDE DIAMETER | | |
| % | PERCENT | | |
| PD | PRESSURE DROP OR DIFFERENTIAL | | |
| PH | PHASE | | |
| PRV | PRESSURE REDUCING OR REGULATING VALVE | | |
| PSIG | POUNDS PER SQUARE INCH GAGE | | |
| PSV | PRESSURE SAFETY VALVE | | |
| R12, R22 | REFRIGERANT (12, 22, ETC.) | | |
| RH | RELATIVE HUMIDITY | | |
| RPM | REVOLUTIONS PER MINUTE | | |
| SEER | SEASONAL ENERGY EFFICIENCY RATIO | | |
| SF | SQUARE FOOT, FEET | | |
| SHR | SENSIBLE HEAT RATIO | | |
| SP | STATIC PRESSURE | | |
| SPEC | SPECIFICATION | | |
| SQ | SQUARE | | |
| TD | TEMPERATURE DIFFERENTIAL | | |
| TEMP | TEMPERATURE | | |
| TOD | TOP OF DUCT | | |
| TONS | TONS OF REFRIGERATION | | |
| TSP | TOTAL STATIC PRESSURE | | |
| T'STAT | THERMOSTAT | | |
| TYP | TYPICAL | | |
| V | VOLTS | | |
| VAV | VARIABLE AIR VOLUME | | |
| VTR | VENT THRU ROOF | | |
| W | WATT, WIDTH | | |
| WB | WET BULB | | |

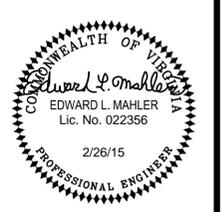
HVAC SPECIFICATIONS

- DRAWINGS DO NOT INDICATE PIPING SUPPORT LOCATIONS AND DETAILS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY PIPE SUPPORTS. SELECTIONS OF PIPE SUPPORT TYPES, SIZES, LOCATIONS, AND SPACING SHALL CONFORM TO MSS SP-69 OR TABLE BELOW, WHICHEVER IS MORE STRINGENT. PIPE HANGER MATERIAL, DESIGN, AND MANUFACTURE SHALL COMPLY WITH MSS SP-58.

| PIPE SUPPORT (HORIZONTAL HANGER SPACING) | |
|--|-------|
| PVC | 4'OC |
| COPPER 1 1/4" AND SMALLER | 6'OC |
| COPPER 1 1/2" AND LARGER | 10'OC |
| STEEL 1" AND SMALLER | 6'OC |
| STEEL 1 1/4" - 2" | 9'OC |
| STEEL 2 1/2" AND LARGER | 12'OC |
| CAST IRON | 5'OC |
- DUCT SIZES INDICATED ARE INSIDE DIMENSIONS. DUCTWORK SHALL BE G-90 GALVANIZED STEEL, FABRICATED, INSTALLED, AND SUPPORTED PER SMACNA STANDARDS FOR +/- 2.0 INWG. PAINT INTERIOR OF METAL DUCTS THAT ARE VISIBLE THRU REGISTERS AND GRILLES. APPLY ONE COAT OF FLAT BLACK LATEX PAINT OVER A COMPATIBLE GALVANIZED STEEL PRIMER. APPLY ONE COAT OF FLAT BLACK LATEX PAINT OVER A COMPATIBLE GALVANIZED STEEL PRIMER. SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED WITH 2-INCH-THICK, 1.5 LB/CF DENSITY MINERAL FIBER WITH FACTORY APPLIED FSK VAPOR BARRIER JACKET. APPLY TAPES, ADHESIVES, AND SEALANTS PER MANUFACTURER'S INSTRUCTIONS TO MAINTAIN VAPOR BARRIER INTEGRITY ACROSS JOINTS AND SEAMS. EXHAUST AND TRANSFER DUCT SHALL BE UNINSULATED. FLEXIBLE DUCTWORK SHALL BE INSULATED TYPE AND SHALL BE LIMITED TO 5 FEET PER SUPPLY DIFFUSER OR GRILLE. DO NOT USE FLEXIBLE DUCT ON RETURN GRILLES. INSULATE BACK SIDE OF SUPPLY DIFFUSERS. SEAL DUCTWORK TO ACHIEVE MINIMUM 95% TOTAL AIRFLOW.
- ROUTE DUCTWORK CONCEALED ABOVE CEILING AS HIGH AS POSSIBLE UNLESS OTHERWISE NOTED. WHERE REQUIRED TO AVOID OBSTRUCTIONS, DUCTWORK SHALL BE TRANSFORMED, DIVIDED, OR SHIFTED WITH THE ORIGINAL FREE AREA BEING MAINTAINED.
- PROVIDE AIR TURNING DEVICES IN DUCTWORK AT ANY CHANGE IN DIRECTION GREATER THAN 30 DEGREES. SQUARE THROAT ELBOWS WITHOUT TURNING VANES, MITERED ELBOWS, STRAIGHT RECTANGULAR AND ROUND DUCT TAPS, AND AIR SCOOPS ARE NOT PERMITTED.

- PROVIDE OPENINGS IN BUILDING CONSTRUCTION FOR PASSAGE OF DUCTWORK. DO NOT PENETRATE STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL OF ENGINEER.
- PIPING SHALL BE SLEEVED THROUGH WALL AND FLOOR PENETRATIONS WITH SCHEDULE 40 STEEL SLEEVES. ALL PENETRATIONS THROUGH FIRE BARRIERS SHALL BE SEALED WITH A RATED FIRE SYSTEM PROVIDING A MINIMUM 1-HOUR FIRE RATING.
- AN ASSOCIATED AIR BALANCE COUNCIL OR NATIONAL ENVIRONMENTAL BALANCING BUREAU CERTIFIED TESTING AND BALANCING CONTRACTOR SHALL BALANCE AIR AND WATER FLOWS AND SUBMIT REPORTS TO THE ENGINEER AND OWNER FOR APPROVAL.
- CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 PVC, ASTM D 1785, SAME SIZE AS EQUIPMENT CONNECTION.

| NO. | BY | REVISIONS | DATE |
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CITY OF LYNCHBURG
PUBLIC SAFETY BUILDING
BASEMENT INTERIOR RENOVATIONS

LYNCHBURG, VIRGINIA

LEGEND AND SPECIFICATIONS

PROJECT NO.: 14111

DATE: 26 FEB 15

Full Scale Verification

0" 1"

Drawing No.: M1

| AIR DEVICE SCHEDULE | | | | | | | | |
|---------------------|---------|---------------------------|----------|--------------------------|---------------------|--------------------|--------------------------------------|--|
| MARK | SERVICE | TYPE | MATERIAL | FRAME | NECK SIZE | FINISH | ACCESSORIES | BASIS OF DESIGN (OR EQUAL) |
| S-1 | SUPPLY | CEILING DIFFUSER (SQUARE) | STEEL | 24"x24" FULL FACE LAY-IN | ROUND, SIZE PER DWG | BAKED-ENAMEL WHITE | PROVIDE MANUAL VOLUME DAMPER IN DUCT | 4-WAY, PERFORATED DIFFUSER WITH STAR PATTERN DEFLECTOR. BASED ON TITUS MODEL PSS. |
| E-1 | EXHAUST | GRILLE | ALUMINUM | 24"x24" LAY IN | RECT. SIZE PER DWG | BAKED-ENAMEL WHITE | WITH OPPOSED BLADE DAMPER | 1/2"x1/2"x1/2" EGGCRATE GRID. BASED ON TITUS MODEL 50F. STEEL BORDER, ALUM GRID. WITH TYPE 3 (LAY IN BORDER) |
| E-2 | EXHAUST | PERFORATED GRILLE | STEEL | SURFACE MOUNT | RECT. SIZE PER DWG | BAKED-ENAMEL WHITE | WITH OPPOSED BLADE DAMPER | PERFORATED SCREEN WITH 3/16" DIA. HOLES ON 1/4" STAGGERED CENTERS. BASED ON TITUS MODEL 8R. |
| R-1 | RETURN | GRILLE | STEEL | SURFACE MOUNT | RECT. SIZE PER DWG | BAKED-ENAMEL WHITE | N/A | LONG BLADES, 3/4" SPACING, 35 DEG DEFLECTION. BASED ON TITUS 350RL. |

GENERAL NOTES:

1. TAKE AIR FLOW READINGS FOR EACH AIR DEVICE BEING REPLACED. RECORD FINDINGS AND PROVIDE A COPY TO OWNER AND A/E OF RECORD. PROVIDE THIS DURING DEMOLITION PHASE.
2. REPLACE EXISTING CEILING DIFFUSERS AND GRILLES WITH TYPE AS INDICATED ON AIR DEVICES SCHEDULE. CONNECT NEW TO EXISTING DUCTWORK.
3. CONFIRM ALL DUCT DIMENSIONS ATTACHING TO AIR DEVICES BEING REPLACED WITH NEW. PROVIDE DIMENSIONS ON SUBMITTAL FOR REPLACEMENT DEVICES.
4. CHECK AIR FLOW AT CLOSEOUT FOR EACH AIR DEVICE AND BALANCE TO INITIAL AIR FLOW SETTING. PROVIDE RECORDS INFORMATION TO OWNER AND A/E.

XX CONSTRUCTION NOTES:

1. REPLACE EXISTING SIDEWALL RETURN GRILLE WITH ONE OF LARGER DIMENSIONS. CONNECT GRILLE TO EXISTING DUCTWORK. EXPAND SIZE IN THE VERTICAL DIRECTION AND UTILIZE EXISTING RETURN DUCT. MAXIMIZE SIZE INCREASE FOR RETURN NOISE MITIGATION.
2. PROVIDE RECTANGULAR TO ROUND TRANSITION, MANUAL DAMPER AND PROVIDE INSULATED ROUND DUCT TO DIFFUSER.

| NO. | BY | REVISIONS | DATE |
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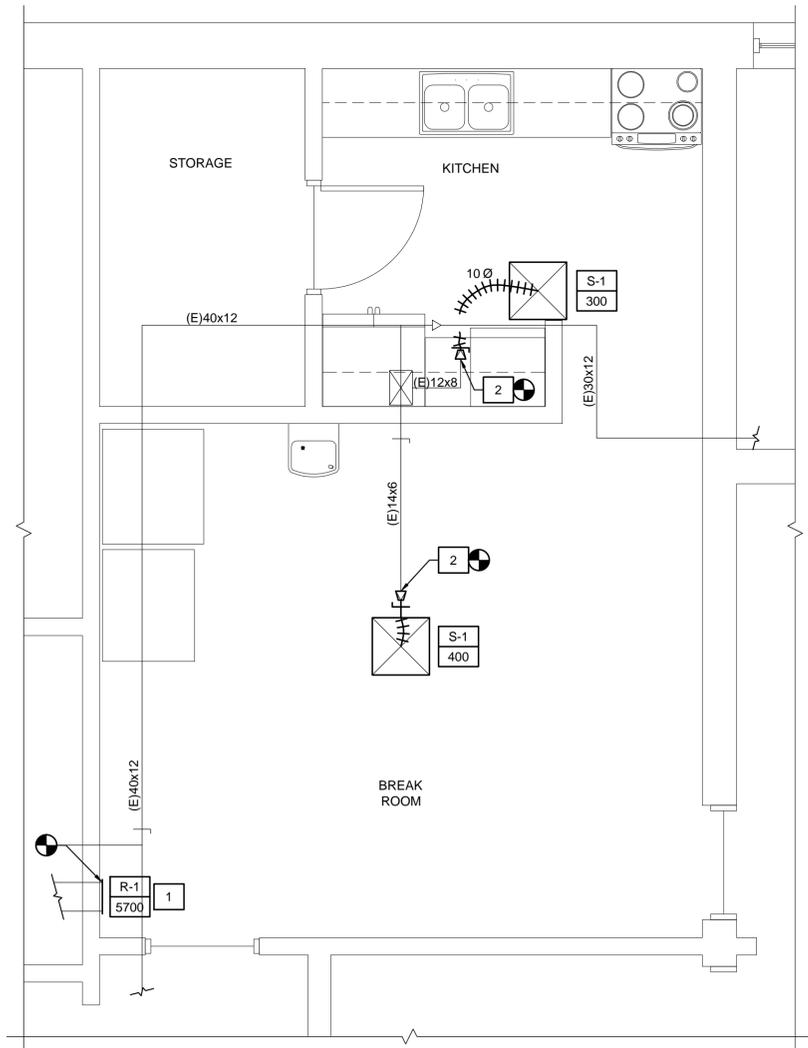


CITY OF LYNCHBURG
PUBLIC SAFETY BUILDING
BASEMENT INTERIOR RENOVATIONS
LYNCHBURG, VIRGINIA

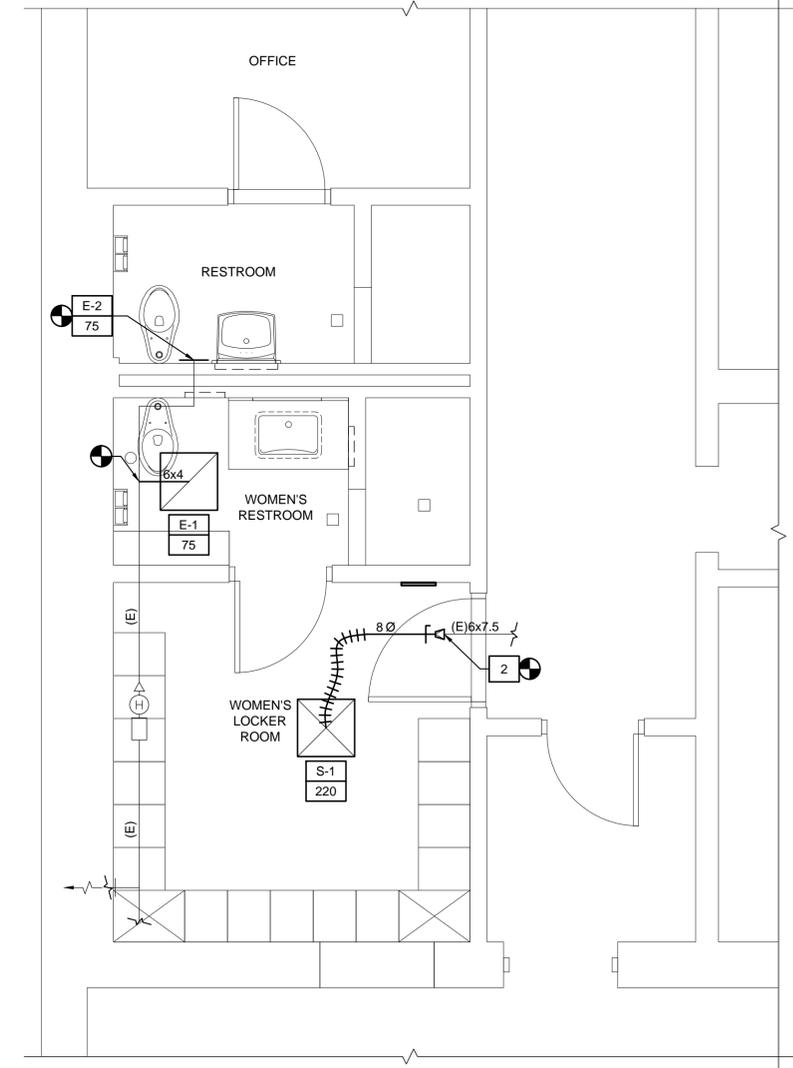
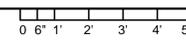
HVAC PLAN,
NOTES, AND SCHEDULES
PROJECT NO.: 14111
DATE: 26 FEB 15

Full Scale Verification
0" = 1"

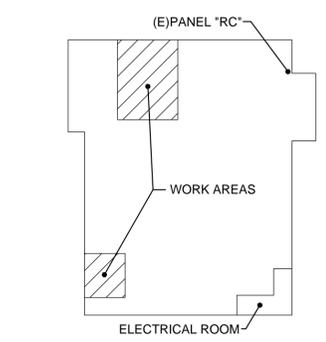
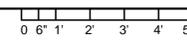
Drawing No.: **M2**



NORTH
PARTIAL BASEMENT HVAC PLAN - KITCHEN AREA
SCALE: 3/8"=1'-0"



NORTH
PARTIAL BASEMENT HVAC PLAN - WOMEN'S LOCKER ROOM
SCALE: 3/8"=1'-0"



NORTH
KEYPLAN - BASEMENT
SCALE: NONE

| LEGEND | | | |
|---------------------------------|---------------------------|-------------------------|---|
| SYMBOLS | | ABBREVIATIONS | |
| ----- DOMESTIC COLD WATER | | CONCENTRIC REDUCER | |
| ----- DOMESTIC HOT WATER | | ECCENTRIC REDUCER | |
| ----- DOMESTIC HOT WATER RETURN | | UNION | |
| ----- WASTE OR SOIL | | WYE STRAINER | |
| ----- VENT | | GATE VALVE | |
| | | BALL VALVE | INDICATES NUMBER OF REVISIONS, CORRESPONDS WITH REVISION NOTE |
| | | BUTTERFLY VALVE | |
| | | CHECK VALVE | |
| | | BALANCING VALVE | |
| | | SAFETY RELIEF VALVE | |
| | | PRESSURE REDUCING VALVE | |
| | | THERMOMETER | |
| | | PRESSURE GAUGE | |
| | | PUMP | |
| | | CONDENSATE DRAIN PIPE | |
| | | FLOOR DRAIN | |
| | | FLOOR CLEANOUT | |
| | | WALL CLEANOUT | |
| | | SHOWER HEAD | |
| AFF | ABOVE FINISHED FLOOR | HB | HOSE BIBB |
| C | DOMESTIC COLD WATER | HD | HEAD |
| CD | CONDENSATE DRAIN | HZ | FREQUENCY |
| DEG | DEGREE | IN | INCHES |
| DIA, Ø | DIAMETER | INWG | INCHES WATER GAUGE |
| DN | DOWN | KW | KILOWATT |
| DWG | DRAWING | LPG | LIQUIFIED PETROLEUM GAS (PROPANE) |
| (E) | EXISTING | MAX | MAXIMUM |
| °F | DEGREE FAHRENHEIT | MCA | MINIMUM CIRCUIT AMPACITY |
| FCO | FLOOR CLEANOUT | MCB | MAXIMUM CIRCUIT BREAKER |
| FD | FLOOR DRAIN | MIN | MINIMUM |
| FT | FEET | MOCB | MAXIMUM OVERCURRENT PROTECTION |
| GAL | GALLON(S) | N/A | NOT APPLICABLE |
| GPH | GALLONS PER HOUR | NC | NORMALLY CLOSED |
| GPM | GALLONS PER MINUTE | NG | NATURAL GAS |
| H | DOMESTIC HOT WATER | NIC | NOT IN CONTRACT |
| R | DOMESTIC HOT WATER RETURN | NO | NORMALLY OPEN, NUMBER |
| | | NTS | NOT TO SCALE |
| | | PSIG | POUNDS PER SQUARE INCH GAGE |
| | | PSV | PRESSURE SAFETY VALVE |
| | | PH | PHASE |
| | | PRV | PRESSURE REDUCING VALVE |
| | | S | SOIL |
| | | SPEC | SPECIFICATION |
| | | TYP | TYPICAL |
| | | V | VENT, VOLTS |
| | | VTR | VENT THRU ROOF |
| | | W | WASTE |
| | | WCO | WALL CLEANOUT |
| | | WH | FROST PROOF WALL HYDRANT |
| | | YCO | YARD CLEANOUT |

PLUMBING SPECIFICATIONS

- PIPING SHALL BE CLEAN AND FREE OF DIRT AND SCALE AT TIME OF INSTALLATION.
 - COLD WATER, HOT WATER, SOIL, WASTE, AND VENT PIPING SHALL BE ROUTED CONCEALED IN WALLS OR ABOVE CEILING.
 - WATER PIPING LOCATED IN EXTERIOR WALLS SHALL BE ROUTED ON ROOM SIDE OF INSULATION.
 - ROUTE PIPING TO CLEAR STRUCTURES, DUCTWORK, CONDUIT, ETC. ALLOWING SPACE FOR PIPE HANGERS AND ACCESS TO VALVES. ALL PIPING SHALL BE INSTALLED SQUARE AND PLUMB.
 - PROVIDE 12"x12" ACCESS DOORS BELOW ALL VALVES AND CLEAN OUTS LOCATED ABOVE GYPSUM CEILING.
 - SANITARY CLEAN OUTS SHALL BE SET FLUSH WITH EITHER FINISHED FLOOR, FINISHED WALL, OR FINISHED GRADE.
 - PIPING SHALL BE SLEEVED THROUGH WALL AND FLOOR PENETRATIONS WITH SCHEDULE 40 STEEL SLEEVES. ALL PENETRATIONS THROUGH FIRE BARRIERS SHALL BE SEALED WITH A RATED FIRE SYSTEM PROVIDING A MINIMUM 1-HOUR FIRE RATING.
 - USE TRANSITION FITTINGS TO JOIN DISSIMILAR PIPING MATERIALS.
 - ABOVE-GROUND SOIL, WASTE, AND VENT PIPE SHALL BE DWV SCHEDULE 40 PVC, ASTM D 2665 PIPE & FITTINGS WITH SOLVENT CEMENT JOINTS OR CAST NO-HUB CISPI 301, PIPE & FITTINGS WITH NO-HUB CISPI 310 COUPLINGS.
 - CAST IRON SOIL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL INSTITUTE (CISPI) AND BE LISTED BY NSF INTERNATIONAL.
 - SOIL, WASTE, AND VENT PIPE 2" AND SMALLER SHALL SLOPE AT 1/4" PER FOOT IN THE DIRECTION OF FLOW.
 - ABOVE-GROUND DOMESTIC WATER PIPE 1-INCH AND SMALLER SHALL BE PEX, ASTM F 877, SDR 9 TUBING. FITTINGS SHALL BE ASTM F 1807 METAL-INSERT TYPE WITH COPPER OR STAINLESS STEEL CRIMP RINGS AND MATCHING PEX TUBE DIMENSIONS AND SHALL BE JOINED PER ASTM F 1807. MANIFOLD SHALL BE MULTIPLE OUTLET, PLASTIC OR CORROSION RESISTANT METAL ASSEMBLY COMPLYING WITH ASTM F 877, WITH PLASTIC OR CORROSION RESISTANT METAL VALVE FOR EACH OUTLET. PROVIDE LOOP IN DISTRIBUTION PIPING AT EACH CHANGE OF DIRECTION OF MORE THAN 90 DEGREES. PROVIDE VINYL COATED HANGERS AND SUPPORT AT MAXIMUM INTERVALS OF 32 INCHES HORIZONTALLY AND 48 INCHES VERTICALLY.
 - CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 PVC, ASTM D 1785, SAME SIZE AS EQUIPMENT CONNECTION.
 - DRAWINGS DO NOT INDICATE PIPING SUPPORT LOCATIONS AND DETAILS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY PIPE SUPPORTS. SELECTIONS OF PIPE SUPPORT TYPES, SIZES, LOCATIONS, AND SPACING SHALL CONFORM TO MSS SP-69 OR TABLE BELOW, WHICHEVER IS MORE STRINGENT. PIPE HANGER MATERIAL, DESIGN, AND MANUFACTURE SHALL COMPLY WITH MSS SP-58.
- PIPE SUPPORT (HORIZONTAL HANGER SPACING)
- | | |
|---------------------------|-------|
| PVC | 4"OC |
| COPPER 1 1/4" AND SMALLER | 6"OC |
| COPPER 1 1/2" AND LARGER | 10"OC |
| STEEL 1" AND SMALLER | 6"OC |
| STEEL 1 1/4" - 2" | 9"OC |
| STEEL 2 1/2" AND LARGER | 12"OC |
| CAST IRON | 5"OC |
- ALL ABOVE-GROUND DOMESTIC WATER PIPE SHALL BE INSULATED WITH ASTM C 534, TYPE I, CLOSED-CELL FLEXIBLE ELASTOMETRIC RUBBER, USING MIL-A-24179A, TYPE II CLASS I ADHESIVE; OR ASTM C 547, TYPE I, GRADE A PRE-FORMED FIBERGLASS WITH FACTORY-APPLIED ASTM C 1136, TYPE I, ASJ-SSL VAPOR RETARDER JACKET, USING MIL-A-3316C, CLASS 2, GRADE A ADHESIVE. ADHESIVE SHALL HAVE VOC CONTENT < 50 g/L AND SHALL BE APPLIED PER MANUFACTURER'S INSTRUCTIONS TO MAINTAIN VAPOR BARRIER INTEGRITY ACROSS JOINTS AND SEAMS. MINIMUM INSULATION THICKNESS:

| SERVICE TYPE | PIPE SIZE | THICKNESS |
|---------------------|--------------|-----------|
| DOMESTIC COLD WATER | UP TO 2" | 1/2" |
| DOMESTIC COLD WATER | 2" AND ABOVE | 1" |
| DOMESTIC HOT WATER | --- | 1" |
| STORM (HORZ PIPE) | --- | 1" |
| ROOF DRAIN BODIES | --- | 1/2" |

- ALL DOMESTIC HOT AND COLD WATER PIPING, FITTINGS, AND VALVES SHALL BE NSF-61 LISTED. ALL PLUMBING COMPONENTS CONTACTING DOMESTIC WATER SHALL COMPLY WITH THE REDUCTION OF LEAD IN DRINKING WATER ACT AND BE NSF-372 LISTED AS APPLICABLE. DOMESTIC WATER PIPE SHALL BE DISINFECTED PER ICP-610 AND VIRGINIA DEPARTMENT OF HEALTH REGULATIONS.

PLUMBING FIXTURE SCHEDULE

| MARK | TYPE | EQUAL TO BASIS OF DESIGN | MATERIAL | COLOR | SIZE WxDxH | MOUNT HEIGHT | CONNECTION SIZES | | | | REMARKS AND ACCESSORIES BASIS OF DESIGN | NOTES |
|------|--|--|------------------------------------|-----------------------|--|-----------------------|------------------|--------|--------|------|--|----------|
| | | | | | | | WASTE | VENT | CW | HW | | |
| P-1 | WATER CLOSET TOP SPUD BOTTOM DISCHARGE | TOTO CT705EN(G) | VITREOUS CHINA | WHITE OR COTTON | 29"x16 1/4" | RIM @ 17" AFF | 3" | 1 1/2" | 1-1/2" | | 1.6 GPF, ELONGATED BOWL, SIPHON JET, FLOOR MOUNTED TOP SPUD, 12" ROUGH-IN | 2,3,7 |
| P-2 | LAVATORY | TOTO CURVA LT569 UNDERCOUNTER LAVATORY | VITREOUS CHINA | #01 COTTON | 19-1/4" x 16 -1/4X 7-1/2 D" BASIN 17"x14" | RIM @ 34" AFF | 1 1/4" | 1 1/4" | 3/8" | 3/8" | DELTA #501-WF SINGLE HANDLE DECK MOUNTED FAUCET | 1,4,5,16 |
| P-3 | LAVATORY | TOTO LT307 WALL HUNG LAVATORY | VITREOUS CHINA | #01 COTTON | 21" x 18 -1/4X 13-3/4 D" BASIN 14-15/16"x10-3/8" | RIM @ 34" AFF | 1 1/4" | 1 1/4" | 3/8" | 3/8" | DELTA #501-WF SINGLE HANDLE DECK MOUNTED FAUCET | 1,4,5,16 |
| P-4 | SHOWER UNIT | TILE CONSTRUCTION - REFER TO ARCHITECTURAL | | | | | 2" | 1 1/4" | 1/2" | 1/2" | KOHLER TABORET K-T8226-4A SINGLE LEVER FAUCET WITH K-306-KS PRESSURE BAL VALVE, ADJ TEMP LIMIT STOP TO 120 DEG @ 2.5 GPM. USE EXISTING SHOWER DRAIN/TRAP | 18 |
| P-5 | DOUBLE BOWL KITCHEN SINK | ELKAY HARMONY UNDERMOUNT ELUH272010R | STAINLESS STEEL | SATIN FINISH | 26 3/4"x20"x10" | COUNTER TOP | 1 1/2" | 1 1/4" | 3/8" | 3/8" | SELF RIMMING 3-HOLE DESIGN W/ UNDERCOATING, ELKAY SINGLE LEVER FAUCET LKE4100 LESS SPRAY | 6,9 |
| P-6 | ELECTRIC DRINKING FOUNTAIN/COOLER | OASIS PF8AC | GALVANIZED STEEL | SANDSTONE POWDER COAT | 18"x19"x19" | 31 1/32" TO FRONT RIM | 1-1/4" | 1-1/4" | 3/8" | | PROVIDE WITH WATER FILTRATION SYSTEM. INSTALL WITH 4" CLEAR SPACE ON EITHER SIDE. PROVIDE WITH 500 WATT (4.4 AMP) WITH 8 GPH COOLER | 13, 14 |
| P-7 | GARBAGE DISPOSAL | INSINKERATOR BADGER 5 SERIES | GALVANIZED STEEL GRINDING ELEMENTS | BLACK | 6-5/16" ROUND X 12-5/8" H. | BELOW SINK | 1-1/2" | - | - | - | PROVIDE WITH MANUAL MOTOR OVERLOAD RESET. 26 OZ. GRIND CHAMBER. CUSHIONED SLIP JOINT. PAIR WITH P-5. 1/2 HP MOTOR. 6.3 AMP ELECTRICAL REQUIREMENT. | |
| FD1 | FUNNEL DRAIN | ZURN ZB-415-B5 OF | CAST IRON | CAST IRON | 5" DIAMETER STRAINER WITH FUNNEL ASSEMBLY | ABOVE 90" | 2 | 2" | | | CAST IRON BODY WITH 5" ADJUSTABLE STRAINER AND P-TRAP WITH OVAL FUNNEL CONVERTING ASSEMBLY. | 17 |
| IM-A | ICE MACHINE ACCESSORIES | FOR BASIS OF DESIGN SCOTTSMAN CU1526SA | | | | | 3/4" | | 3/8" | | PROVIDE WITH SHUTOFF VALVE FOR WATER INLET MOUNTED UNDER COUNTER BEHIND ICE MACHINE, PROVIDE WITH 3/4 FPT FITTING, PIPING AND ADAPT TO 1" CP-1 INLET. | |

- NOTES:
- INSULATE TRAP AND WATER RISERS WITH LAV GUARD BY TRUEBRO MODEL #102 OR EQUAL WHEN LAV TRAP AND RISERS ARE EXPOSED.
 - PROVIDE TOTO SC534 ELONGATED SEAT OR EQUAL. COLOR TO MATCH FIXTURE.
 - PROVIDE CLOSET BOLTS AND SETTING SEAL.
 - PROVIDE WITH LAV FAUCET, 4" CENTER TO CENTER COVER PLATE, LESS POP-UP, 4-5" SPOUT, 0.5 GPM @ 80 PSI AERATOR, CHROME PLATED.
 - PROVIDE P-TRAP.
 - PROVIDE SINGLE LEVER KITCHEN FAUCET , 8" CENTER TO CENTER COVER PLATE, 9"-10" SWING SPOUT, 2.2 GPM @ 80 PSI AERATOR AND CHROME PLATED. WITH OR WITHOUT SPRAY PER SCHEDULE.
 - PROVIDE WITH CERAMIC GLAZE COATING. PROVIDE MANUAL FLUSH VALVE TOTO TMT1NNC-32#CP OR EQUAL (1.6 GPF) AND CONNECT TO EXISTING PLUMBING.
 - PROVIDE 1 1/4" PROFLO OR EQUAL 17 GA CHROME PLATED OFFSET WHEELCHAIR ELBOW WITH GRID STRAINER AND 6" TAILPIECE.
 - PROVIDE 1 1/4" PROFLO OR EQUAL 17 GA CHROME PLATED BRASS ADJUSTABLE P-TRAP, BRASS NUTS, WASHERS, BRASS TUBE AND CHROME PLATED BASKET STRAINER.
 - PROVIDE 1 1/4" PROFLO OR EQUAL 17 GA CHROME PLATED BASKET STRAINER WITH 4" TAILPIECE.
 - PROVIDE 1 1/2" PROFLO OR EQUAL 17 GA CHROME PLATED BRASS END OUTLET CONTINUOUS WASTE.
 - PROVIDE DRAIN FIELD INSTALLED ON TUB/SHOWER UNIT (P-3) BEFORE INSTALLATION.
 - PROVIDE BRASSCRAFT OR EQUAL 1/2"SWT X 3/8" COMPRESSION CHROME PLATED SOLID BRASS ANGLE STOPS WITH ROUND WHEEL HANDLES AND FLEXIBLE COPPER OR BRAIDED STEEL SUPPLY RISERS.
 - PROVIDE 1 1/4" PROFLO OR EQUAL WITH PVC ADJUSTABLE P-TRAP, BRASS NUTS, WASHERS, BRASS TUBE AND SHALLOW STEEL FLANGE.
 - PROVIDE 1 1/4" PROFLO OR EQUAL 17 GA CHROME PLATED BRASS ADJUSTABLE P-TRAP, BRASS NUTS, WASHERS, BRASS TUBE.
 - PROVIDE WITH ASSE 1070 THERMOSTATIC MIXING VALVE (WATTS USG-B-M1) ADJUSTED TO 110 DEG F.
 - INSTALL WITH AIR GAP BETWEEN CONDENSATE PUMP LINE AND DRAIN.
 - 6'-0" SHOWERHEAD WITH LOCKABLE BALL JOINT AND ALLEN KEY VOLUME CONTROL; HAND-HELD SHOWER SPRAY WITH 60" FLEXIBLE SS HOSE, POST TYPE MOUNTING BRACKET, VACUUM BREAKER BACKFLOW PREVENTER, AND QUICK DISCONNECT; DIVERTER VALVE; 1/2" FLEXIBLE SS HOSE INLETS WITH STOPS; STOPS INSTALLED DURING DEMOLITION PHASE.

PUMP SCHEDULE

| TAG | LOCATION | SERVICE | TYPE | FLUID | SUCTION x DISCHARGE (IN) | FLOW GPM | HEAD FT | MOTOR | | | BASIS OF DESIGN OR EQUAL. |
|------|----------|-----------------------------|----------------------|-------|--------------------------|----------|---------|-------|------|---------|---------------------------|
| | | | | | | | | HP | AMPS | VOLT/PH | |
| CP-1 | KITCHEN | ICE MACHINE CONDENSATE PUMP | VERTICAL CENTRIFUGAL | WATER | 1"x 3/8" BARBED | 45 | 10 | 1/30 | 1.5 | 120/1 | LITTLE GIANT VCC-20ULS |

- NOTES:
- PROVIDE WITH 6 FOOT CORD AND PLUG
 - PROVIDE WITH REDUCER AND FITTING TO MATCH OWNER ICE MACHINE REQUIREMENTS.

| NO. | BY | REVISIONS | DATE |
|-----|----|-----------|------|
| | | | |
| | | | |
| | | | |



CITY OF LYNCHBURG
PUBLIC SAFETY BUILDING
BASEMENT INTERIOR RENOVATIONS

LYNCHBURG, VIRGINIA

LEGEND, SPECIFICATIONS,
AND SCHEDULES

PROJECT NO:
14111

DATE:
26 FEB 15

Full Scale Verification

0" 1"

Drawing No.:

P1

LEGEND

| SYMBOLS | ABBREVIATIONS | GENERAL NOTES | |
|---|---|--|--|
| <p>1 CONSTRUCTION NOTE</p> <p>1 DEMOLITION NOTE</p> <p>○ LIMIT OF DEMOLITION</p> <p>● NEW-TO-EXISTING POINT OF CONNECTION</p> <p>POWER</p> <p>(E) EQUIPMENT CONNECTION</p> <p>DUPLEX RECEPTACLE, WALL MOUNTED 18" AFF, UON. WP = WEATHERPROOF WITH GROUND FAULT CIRCUIT PROTECTION AC = MOUNT 3" ABOVE COUNTER BACKSPASH GFI = GROUND FAULT PROTECTION</p> <p>QUAD RECEPTACLE, MOUNT 18" AFF, UON.</p> <p>SIMPLEX RECEPTACLE, MOUNT 18" AFF, UON.</p> <p>SPECIAL PURPOSE RECEPTACLE, AS NOTED, WALL MOUNT 18" AFF, UON.</p> <p>MANUAL MOTOR STARTER WITH THERMAL OVERLOADS, WALL-MOUNT 48" AFF UON.</p> <p>480V, 3P, 100A DISCONNECT VOLTAGE, POLES, AMP RATING 70A, NEMA 1 FUSE SIZE, ENCLOSURE TYPE</p> <p>400A FUSED SWITCH SWITCH SIZE 300A FUSE SIZE</p> <p>400AF CIRCUIT BREAKER AMP FRAME 300AT AMP TRIP</p> <p>LP3 PANELBOARD PANELBOARD NUMBER 120/208 VOLTAGE 3P/4W POLES, WIRES 225A AMP RATING MCB</p> | <p>LIGHTING</p> <p>A 2'x4' FLUORESCENT CEILING-MOUNTED FIXTURE. UPPERCASE LETTER INDICATES FIXTURE TYPE. LOWERCASE LETTER INDICATES SWITCHING</p> <p>A 2'x4' FLUORESCENT EMERGENCY FIXTURE. CONNECT EMERGENCY BALLAST AHEAD OF SWITCH.</p> <p>B 1'x4' FLUORESCENT CEILING-MOUNTED FIXTURE.</p> <p>B 1'x4' FLUORESCENT EMERGENCY FIXTURE. CONNECT EMERGENCY BALLAST AHEAD OF SWITCH.</p> <p>C 2'x2' FLUORESCENT CEILING-MOUNTED FIXTURE.</p> <p>C 2'x2' FLUORESCENT EMERGENCY FIXTURE. CONNECT EMERGENCY BALLAST AHEAD OF SWITCH.</p> <p>G DUAL-HEAD WALL-MOUNTED EMERGENCY LIGHT</p> <p>S SWITCH, SINGLE POLE UON, MOUNT 48" AFF UON. a = LOWER CASE LETTER INDICATES SWITCHING 3 = 3-WAY SWITCH 4 = 4-WAY SWITCH O3 = 3-WAY WALL MOUNTED OCCUPANCY SENSOR WITH OVERRIDE O = OCCUPANCY SENSOR WITH OVERRIDE</p> <p>SS DOUBLE SWITCH, MOUNT 48" AFF, UON.</p> <p>EX1 CEILING MOUNTED, SINGLE-FACED EXIT SIGN. ARROW INDICATES FACE CONFIGURATION.</p> <p>EX1 CEILING MOUNTED, SINGLE-FACED COMBO EXIT SIGN.</p> <p>EX2 CEILING MOUNTED, DOUBLE-FACED EXIT SIGN. ARROW INDICATES FACE CONFIGURATION.</p> <p>EX3 WALL MOUNTED, SINGLE-FACED EXIT SIGN. ARROW INDICATES FACE CONFIGURATION.</p> <p>EX WALL MOUNTED, SINGLE-FACED COMBO EXIT SIGN.</p> <p>CONDUCTORS AND RACEWAYS</p> <p>--- CONDUIT RUN CONCEALED UNDER FLOOR</p> <p>— CONDUIT RUN EXPOSED OR ABOVE CEILING</p> <p>(3)#12 HOMERUN CIRCUIT TO OTHER CIRCUIT. CONDUCTORS AND RACEWAY SIZE AS NOTED.</p> <p>MDP-1 HOMERUN TO PANEL AND CIRCUIT NUMBER AS INDICATED. CONDUCTOR AND RACEWAY SIZE AS INDICATED IN PANELBOARD SCHEDULE, UON.</p> <p>MDP-1 INDICATES MULTIPLE HOMERUN CIRCUITS FROM SINGLE PANEL/CIRCUIT.</p> <p>(JB) JUNCTION BOX</p> <p>— CONDUIT TURNING DOWN</p> <p>— CONDUIT TURNING UP</p> <p>SPECIAL SYSTEMS</p> <p>F FIRE ALARM MANUAL PULL STATION. MOUNT 48" AFF UON.</p> <p>30 FIRE ALARM COMBINATION HORN/STROBE. WALL-MOUNTED 80" AFF, UON. NUMBER INDICATES CANDELA RATING.</p> <p>30 FIRE ALARM STROBE. WALL-MOUNTED 80" AFF, UON. NUMBER INDICATES CANDELA RATING.</p> <p>FACP FIRE ALARM CONTROL PANEL</p> <p>▼ WALL-MOUNTED, SINGLE-GANG, TELECOMMUNICATIONS OUTLET BOX. MOUNT 48" AFF UON. PROVIDE SURFACE MOUNTED WIREWAY WITH PULL STRING FROM OUTLET BOX TO ACCESSIBLE AREA ABOVE CEILING.</p> <p>▼ WALL-MOUNTED, SINGLE-GANG, TV OUTLET BOX. MOUNT 48" AFF UON. PROVIDE SURFACE MOUNTED WIREWAY WITH PULL STRING FROM OUTLET BOX TO ACCESSIBLE AREA ABOVE CEILING.</p> <p>S SMOKE DETECTOR</p> <p>S_D SMOKE DETECTOR, DUCT MOUNTED</p> <p>PS PUSHBUTTON STATION. MOUNT 48" AFF, UON.</p> | <p>ABBREVIATIONS</p> <p>A AMPERE</p> <p>AC ABOVE COUNTER</p> <p>A/E ARCHITECT/ENGINEER</p> <p>AF AMP FRAME</p> <p>AT AMP TRIP</p> <p>AFF ABOVE FINISHED FLOOR</p> <p>APPROX APPROXIMATE</p> <p>BCSD BARE COPPER SOFT DRAWN</p> <p>C CONDUIT</p> <p>CB CIRCUIT BREAKER</p> <p>CM CEILING MOUNT</p> <p>DWG DRAWING</p> <p>(E) EXISTING</p> <p>ECB ENCLOSED CIRCUIT BREAKER</p> <p>EMT ELECTRICAL METALLIC TUBING</p> <p>FD FUSED DISCONNECT</p> <p>FMC FLEXIBLE METALLIC CONDUIT</p> <p>FTL FEED THROUGH LUGS</p> <p>FVNR FULL VOLTAGE NON REVERSING</p> <p>G, GND GROUND</p> <p>GFI GROUND FAULT INTERRUPTING</p> <p>HOA HAND-OFF-AUTO</p> <p>HP HORSEPOWER</p> <p>HVAC HEATING, VENTILATING, AND AIR CONDITIONING</p> <p>JB JUNCTION BOX</p> <p>LPMC LIQUID-TIGHT FLEXIBLE METALL CONDUIT</p> <p>MAX MAXIMUM</p> <p>MC METAL CLAD CABLE</p> <p>MCA MIN CIRCUIT AMPACITY</p> <p>MCB MAIN CIRCUIT BREAKER</p> <p>MIN MINIMUM</p> <p>MLO MAIN LUGS ONLY</p> <p>MOPD MAX OVERCURRENT PROTECTION DEVICE</p> <p>N NEUTRAL</p> <p>NF NON FUSED</p> <p>NIC NOT IN CONTRACT</p> <p>OCPD OVERCURRENT PROTECTION DEVICE</p> <p>P PHASES OR POLES</p> <p>PB PUSHBUTTON</p> <p>RNC RIGID NONMETALLIC CONDUIT</p> <p>RSC RIGID STEEL CONDUIT</p> <p>SM SURFACE MOUNT</p> <p>STP SHIELDED TWISTED PAIR</p> <p>TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION</p> <p>TYP TYPICAL</p> <p>UG UNDERGROUND</p> <p>UN UNLESS OTHERWISE NOTED</p> <p>UTP UNSHIELDED TWISTED PAIR</p> <p>V VOLTS</p> <p>VFD VARIABLE FREQUENCY DRIVE</p> <p>W WIRES</p> <p>W/ WITH</p> <p>W/O WITHOUT</p> <p>WP WEATHERPROOF</p> | <p>GENERAL NOTES</p> <ol style="list-style-type: none"> THESE DRAWINGS ARE SCHEMATIC IN NATURE AND INDICATE THE GENERAL AND APPROXIMATE LOCATION OF EQUIPMENT AND EXISTING CONSTRUCTION. FIELD-VERIFY ALL DIMENSIONS AND LOCATIONS. INDICATED UNDERGROUND OBSTRUCTIONS WERE DEVELOPED FROM EXISTING RECORDS AND ABOVE-GROUND INSPECTION. ACCURACY OR COMPLETENESS OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES AND STRUCTURES CANNOT BE GUARANTEED. VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND FACILITIES BEFORE STARTING WORK. THESE DRAWINGS MAY NOT INDICATE ALL FITTINGS, PARTS AND ACCESSORIES THAT ARE REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM. NO EXCLUSION FROM OR LIMITATION IN THE SYMBOLISM USED ON THE DRAWINGS FOR THE WORK, OR THE LANGUAGE USED IN THE SPECIFICATIONS FOR THE WORK SHALL BE INTERPRETED AS A REASON FOR OMITTING THE APPURTENANCES OR ACCESSORIES NECESSARY TO COMPLETE AND REQUIRED WORK, SYSTEM, OR ITEM OF EQUIPMENT. ALL ELECTRICAL WORK ON THIS PROJECT SHALL BE INSTALLED IN ACCORDANCE WITH THE 2012 VIRGINIA UNIFORM STATEWIDE BUILDING CODE (EFFECTIVE JULY 14, 2014), NFPA 70-2011 (NATIONAL ELECTRICAL CODE), AND NFPA 72-2010 (NATIONAL FIRE ALARM CODE). COORDINATE ARRANGEMENT, MOUNTING, AND SUPPORT OF ELECTRICAL EQUIPMENT TO AVOID INTERFERENCES WITH ELECTRICAL AND OTHER TRADES. COORDINATE WORK WITH EXISTING CONDITIONS INCLUDING BEAMS, COLUMNS, SITE FEATURES, AND OTHER CONSTRUCTION WHETHER OR NOT SUCH IS SHOWN ON THE DRAWINGS. SET SLEEVES IN CAST-IN-PLACE CONCRETE AND MASONRY WALLS, AS THEY ARE CONSTRUCTED. COORDINATE LOCATION OF ACCESS PANELS AND DOORS FOR ELECTRICAL EQUIPMENT THAT ARE BEHIND FINISHED SURFACES OR ARE OTHERWISE CONCEALED. COORDINATE AMPACITY, VOLTAGE, PHASING, OVERCURRENT PROTECTION, AND LOCAL DISCONNECT REQUIREMENTS WITH ACTUAL EQUIPMENT PROVIDED. MAINTAIN A SET OF AS-BUILT RED-LINE MARKUPS INDICATING ACTUAL INSTALLATION. DELIVER TO OWNER AT CONCLUSION OF PROJECT. PROVIDE PRODUCT DATA SUBMITTALS FOR THE FOLLOWING EQUIPMENT: PANELBOARDS, ENCLOSED CONTROLLERS, ENCLOSED SWITCHES, AND DEVICES. MATERIALS INSTALLED PRIOR TO OBTAINING AN APPROVED SUBMITTAL ARE AT CONTRACTOR'S RISK. CUT EXISTING CONSTRUCTION AS NEEDED FOR DEMOLITION AND CONSTRUCTION. USE CUTTING METHODS THAT MINIMIZE DAMAGE TO FINISHED AND ADJACENT SURFACES. PATCH EXISTING AND NEW CONSTRUCTION AND REPAIR ALL DAMAGED SURFACES TO MATCH EXISTING. PATCH UNUSED AND ABANDONED PENETRATIONS. CONTRACTOR SHALL ADVISE A/E IMMEDIATELY OF DISCREPANCIES WITHIN DRAWINGS. MINOR DEVIATIONS FROM THE PLANS MAY BE MADE TO AVOID MINOR CONFLICTS. WHERE MAJOR CONFLICTS ARE ENCOUNTERED, THE AFFECTED WORK SHALL NOT BE INSTALLED UNTIL THE CONFLICT HAS BEEN RESOLVED. THE A/E IS NOT RESPONSIBLE FOR THE CONSEQUENCES OF PROCEEDING WITH WORK BASED ON CONTRACTOR INTERPRETATION OR ON DIRECTION FROM OTHER PARTIES. CONTACT INFORMATION SITE REPRESENTATIVE: RANDY DALTON 434-455-4407 ELECTRIC UTILITY: AMERICAN ELECTRIC POWER |

ELECTRICAL SPECIFICATIONS:

| | | | | |
|--|---|---|---|--|
| <p>RACEWAYS AND BOXES</p> <p>A. MATERIALS:</p> <p>EMT - ANSI C80.3, COMPRESSION FITTING, MIN SIZE 3/4-INCH.</p> <p>RSC - ANSI C80.1, MIN SIZE 3/4-INCH.</p> <p>LPMC - MIN SIZE 3/4-INCH.</p> <p>RNC - NEMA TC2 WITH TC3 FITTINGS, MIN SIZE 3/4-INCH.</p> <p>MC - METAL CLAD CABLE.</p> <p>FMC - MIN SIZE 1/2-INCH.</p> <p>WIREWAYS - SHEET METAL WITH SCREW COVERS.</p> <p>B. INDOOR RACEWAY APPLICATIONS:</p> <p>EXPOSED OR CONCEALED: EMT, UON.</p> <p>EMBEDDED IN CONCRETE: SCHEDULE 40 RNC.</p> <p>CONCEALED FIXTURE WHIPS: UP TO 72 INCHES OF FMC OR MC CABLE.</p> <p>BOXES AND ENCLOSURES: NEMA 250 TYPE 1, UON.</p> <p>C. OUTDOOR RACEWAY APPLICATIONS:</p> <p>ABOVEGROUND: RSC.</p> <p>BOXES AND ENCLOSURES: NEMA 250 TYPE 3R, UON.</p> <p>D. UNDERGROUND RACEWAY APPLICATIONS: USE DIRECT BURIED SCHEDULE 80 RNC. MINIMUM DEPTH IS 24 INCHES OR GREATER AS REQUIRED BY NATIONAL ELECTRICAL CODE. USE FABRICATED LONG RADIUS RSC ELBOWS FOR TURNS APPROACHING 90 DEGREES. TRANSITION TO RSC BEFORE TURNING UP TO COME OUT OF GROUND.</p> <p>E. LEAVE 1-INCH MINIMUM CONCRETE COVER FOR EMBEDDED RACEWAY. USE MANUFACTURED RSC ELBOW TO TURN OUT OF CONCRETE.</p> <p>F. USE UP TO 72 INCHES OF LPMC FOR CONNECTION TO VIBRATING EQUIPMENT INCLUDING TRANSFORMERS AND MOTOR-DRIVEN EQUIPMENT.</p> <p>G. PROVIDE #6-18 TEST PULL STRING TIED OFF AT EACH END IN ALL EMPTY CONDUITS.</p> <p>WIRING METHODS</p> <p>A. SINGLE CONDUCTORS SHALL BE COPPER, #12 MINIMUM CONDUCTOR SIZE, SOLID FOR #10 AWG AND SMALLER, STRANDED FOR #8 AWG AND LARGER. FOR ABOVE-GROUND APPLICATIONS USE THHN-THWN, 600VAC INSULATION. FOR CIRCUITS WHERE ANY PART OF THE CIRCUIT IS BELOW GRADE USE CONDUCTORS WITH XHHW-2, 600 VAC RATED INSULATION.</p> <p>B. INSTALL RACEWAYS AND CABLES CONCEALED WITHIN FINISHED WALLS, CEILINGS, AND FLOORS, UON.</p> <p>C. RACEWAY APPLICATIONS:</p> <p>SERVICE CONDUCTORS: SINGLE CONDUCTORS IN RACEWAY, UON.</p> <p>FEEDER CONDUCTORS: SINGLE CONDUCTORS IN RACEWAY, UON.</p> <p>BRANCH CIRCUITS: SINGLE CONDUCTORS IN RACEWAY, UON.</p> <p>CLASS 2 CONTROL CIRCUITS: SINGLE CONDUCTORS IN RACEWAY, UON.</p> <p>D. SINGLE PHASE 15A AND 20A BRANCH CIRCUITS THAT ARE CONCEALED WITHIN INTERIOR PARTITIONS AND ABOVE CEILINGS MAY BE PLACED IN MC CABLE.</p> <p>E. CLASS 2 CONTROL CIRCUITS THAT ARE CONCEALED WITHIN INTERIOR PARTITIONS AND ABOVE CEILINGS MAY UTILIZE OPEN WIRING METHODS WITH PLENUM-RATED POWER LIMITED CABLE.</p> <p>F. MINIMIZE SPLICES AND PLACE ONLY IN ACCESSIBLE JUNCTION BOXES AND ENCLOSURES THAT ARE SIZED AND RATED FOR SUCH.</p> <p>ELECTRICAL IDENTIFICATION</p> <p>A. EQUIPMENT IDENTIFICATION: PROVIDE LABELS FOR PANELBOARDS, ELECTRICAL CABINETS, SWITCHGEAR, SWITCHBOARDS, TRANSFORMERS, MOTOR-CONTROL CENTERS AND EACH UNIT WITHIN, DISCONNECT SWITCHES, ENCLOSED CIRCUIT</p> | <p>BREAKERS, MOTOR STARTERS, PUSH-BUTTON STATIONS, POWER TRANSFER EQUIPMENT, CONTACTORS, UN-INTERRUPTIBLE POWER SUPPLIES, AND AS ADDITIONALLY INDICATED, LABELS SHALL BE LAMINATED ACRYLIC, WITH 1/2-INCH ENGRAVED BLACK LETTERING ON 1-1/2-INCH WHITE STOCK ATTACHED WITH SCREWS.</p> <p>B. DEVICE CIRCUIT IDENTIFICATION: PROVIDE SELF-ADHESIVE 1/4-INCH HEIGHT CLEAR LABELS WITH 1/8-INCH BLACK PRINTED TEXT WITH EACH RECEPTACLE INDICATING PANELBOARD AND BRANCH CIRCUIT.</p> <p>C. RACEWAY AND CABLE LABELS: PROVIDE PRE-TENSIONED, PRE-PRINTED, WRAPAROUND PLASTIC SLEEVES THAT ARE SIZED TO SUIT THE DIAMETER OF THE ITEM IDENTIFIED.</p> <p>D. USE VINYL OR VINYL-CLOTH, SELF-ADHESIVE, WRAPAROUND TYPE TAPE MARKERS FOR WIRE. USE GREEN FOR GROUNDING CONDUCTOR ONLY. FOLLOW THESE WIRE COLOR CODING CONVENTIONS:</p> <p>120 SINGLE PHASE: BLACK, WHITE, AND GREEN.</p> <p>120/208 THREE PHASE: RED, BLACK, AND BLUE.</p> <p>277/480 THREE PHASE: YELLOW, ORANGE, AND BROWN.</p> <p>PENETRATIONS AND SLEEVES</p> <p>A. FIRE-RATED ASSEMBLIES: APPLY FIRESTOPPING TO ELECTRICAL PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES TO RESTORE ORIGINAL FIRE-RESISTANCE RATING.</p> <p>B. MASONRY WALLS AND FLOORS: IN CONCRETE SLABS AND WALLS, INSTALL SLEEVES FOR PENETRATIONS UNLESS CORE-DRILLED HOLES OR FORMED OPENINGS ARE USED. INSTALL SLEEVES DURING ERECTION OF SLABS AND WALLS. EXTEND SLEEVES INSTALLED IN FLOORS 2 INCHES ABOVE FINISHED FLOOR LEVEL. SELECT SLEEVE SIZE TO ALLOW FOR 1/2-INCH ANNULAR CLEAR SPACE BETWEEN RACEWAY AND SLEEVES.</p> <p>C. BELOW-GRADE EXTERIOR WALL PENETRATIONS: SEAL PENETRATIONS USING SLEEVES AND MECHANICAL SLEEVE SEALS.</p> <p>D. ABOVE-GRADE EXTERIOR WALL PENETRATIONS: SEAL PENETRATIONS USING SLEEVES AND CAULK, UON.</p> <p>E. ROOF PENETRATIONS: SEAL PENETRATIONS OF INDIVIDUAL RACEWAYS AND CABLES WITH FLEXIBLE BOOT-TYPE FLASHING UNITS OR PITCH POCKETS APPLIED IN COORDINATION WITH ROOFING.</p> <p>SUPPORT AND ANCHORAGE</p> <p>A. PROVIDE SUPPORT AND ANCHORAGE THAT IS ADEQUATE IN TENSION, SHEAR, AND PULLOUT FORCE TO RESIST MAXIMUM LOADS CALCULATED OR IMPOSED WITH A MINIMUM STRUCTURAL SAFETY FACTOR OF FIVE.</p> <p>B. STEEL SLOTTED SUPPORT SYSTEMS: COMPLY WITH MFMA-3 FACTORY FABRICATED COMPONENTS FOR FIELD ASSEMBLY WITH FINISH SUITABLE FOR THE ENVIRONMENT.</p> <p>C. FOR ATTACHMENT TO CONCRETE AND SOLID MASONRY, USE WEDGE-TYPE, ZINC-COATED STEEL EXPANSION ANCHOR FASTENERS. DRILL HOLES AT LOCATIONS AND DEPTHS THAT AVOID REINFORCING BARS. FOR CONNECTIONS TO HOLLOW MASONRY USE ALL-STEEL SPRINGHEAD TYPE TOGGLE BOLTS.</p> <p>D. FOR CLAMPING TO STEEL STRUCTURAL ELEMENTS USE WELDED STEEL STUDS, BEAM CLAMPS OR SPRING-TENSION CLAMPS.</p> <p>E. FOR CONNECTIONS TO WOOD USE LAG SCREWS OR THROUGH BOLTS.</p> <p>F. HANGER RODS TO BE THREADED STEEL.</p> <p>G. FOR CONNECTIONS TO LIGHT STEEL USE SHEET METAL SCREWS.</p> <p>H. FOR ITEMS MOUNTED ON HOLLOW WALLS AND NONSTRUCTURAL BUILDING</p> | <p>SURFACES USE SLOTTED-CHANNEL RACKS ATTACHED TO SUBSTRATE.</p> <p>I. FASTEN HANGERS AND SUPPORTS SECURELY IN PLACE WITH PROVISIONS FOR STRUCTURAL AND THERMAL MOVEMENT.</p> <p>J. SEPARATE DISSIMILAR METALS AND METAL PRODUCTS FROM CONTACT WITH WOOD OR CEMENTITIOUS MATERIALS BY PAINTING EACH METAL SURFACE IN AREA OF CONTACT WITH A BITUMINOUS COATING OR BY OTHER PERMANENT SEPARATION.</p> <p>K. EMT AND RSC MAY BE SUPPORTED BY OPENINGS THROUGH STRUCTURAL MEMBERS AS PERMITTED IN NFPA-70.</p> <p>DEVICES</p> <p>A. STRAIGHT BLADE RECEPTACLES: HEAVY-DUTY CONVENIENCE RECEPTACLES, 125 V, 20 A. COMPLY WITH NEMA WD 1, NEMA WD 6 CONFIGURATION 5-20R, AND UL 498.</p> <p>B. GFCI RECEPTACLES: STRAIGHT BLADE, FEED-THROUGH TYPE. COMPLY WITH NEMA WD 1, NEMA WD 6, UL 498, AND UL 943, CLASS A, 125 V, 20 A, AND INCLUDE INDICATOR LIGHT THAT IS LIGHTED WHEN DEVICE IS TRIPPED.</p> <p>C. SNAP SWITCHES: 20A, 600VAC, HEAVY DUTY, SINGLE POLE - SINGLE THROW OR AS OTHERWISE INDICATED. COMPLY WITH NEMA WD 1 AND UL 20.</p> <p>D. WALL OCCUPANCY SENSORS: DUAL TECHNOLOGY TYPE (PASSIVE INFRARED AND ULTRASONIC), 120/277 V, ADJUSTABLE TIME DELAY UP TO 30 MINUTES, 180-DEGREE FIELD OF VIEW, WITH A MINIMUM COVERAGE AREA OF 1,000 SQ FT. PROVIDE CONTROL POSITIONS FOR "OFF", "ON", AND "AUTO".</p> <p>E. WALL COVER PLATES: PROVIDE SINGLE AND COMBINATION TYPES TO MATCH CORRESPONDING WIRING DEVICES. FOR FINISHED SPACES PROVIDE STEEL WITH WHITE BAKED ENAMEL. FOR UNFINISHED SPACES PROVIDE GALVANIZED STEEL. FOR WET OR DAMP LOCATIONS PROVIDE THERMOPLASTIC "WEATHERPROOF WHILE IN USE" LOCKABLE COVER.</p> <p>F. DEVICE COLORS: AS INDICATED.</p> <p>LIGHTING</p> <p>A. ALL LUMINAIRES SHALL BE PROVIDED WITH LAMPS.</p> <p>B. RECESSED FIXTURES: COMPLY WITH NEMA LE 4.</p> <p>C. BULB SHAPE COMPLYING WITH ANSI C79.1.</p> <p>D. CRI MINIMUM OF 80 LAMP TEMPERATURE AS INDICATED ON THE LIGHTING SCHEDULE.</p> <p>E. SUPPORT RECESSED LIGHT FIXTURES INDEPENDENT OF ACOUSTICAL CEILING SYSTEM USING FOUR (4) WIRES FOR ECR1 MINIMUM OF 80. LAMP TEMPERATURE AS INDICATED ON THE LIGHTING SCHEDULE. SUPPORT RECESSED LIGHT FIXTURES INDEPENDENT OF ACOUSTICAL CEILING SYSTEM USING FOUR (4) WIRES FOR EACH FIXTURE. CONNECT ONE WIRE WITHIN 6 INCHES OF EACH CORNER OF EACH FIXTURE AND EXTEND THE WIRE TO THE STRUCTURAL FRAMING ABOVE. WIRES TO BE ASTM A 641/A 641M, CLASS 3, SOFT TEMPER, ZINC-COATED STEEL, 12 GAGE MINIMUM. ATTACH WIRES TO STRUCTURE AND FIXTURE PER ASTM C 636M, USING A MINIMUM OF THREE TIGHT TURNS WITHIN A 3 INCH LENGTH. FASTEN SUPPORT CLIPS TO LIGHT FIXTURE AND CEILING GRID MEMBERS AT OR NEAR EACH FIXTURE WITH CLIPS THAT ARE UL-LISTED FOR THE APPLICATION.</p> <p>F. DRIVERS SHALL BE WARRANTED FOR 60 MONTHS FROM DATE OF INSTALLATION.</p> <p>G. EMERGENCY LIGHTING SHALL OPERATE INDICATED NUMBER OF LAMPS FOR 90 MINUTES. IF INDICATOR LIGHT AND TEST SWITCH ARE NOT INTEGRAL WITH LUMINAIRE, INSTALL FLUSH IN WALL ADJACENT TO LUMINAIRE.</p> <p>PANELBOARDS</p> <p>A. MODIFIED PANELBOARDS: PROVIDE OR RELOCATE BREAKERS AS INDICATED. NEW BREAKERS SHALL BE FROM SAME MANUFACTURER AS PANELBOARD AND SHALL</p> | <p>HAVE SUITABLE PANEL CURRENT RATINGS.</p> <p>B. PROVIDE TYPED PANELBOARD INDEXES FOR ALL NEW AND MODIFIED PANELBOARDS.</p> <p>FIRE ALARM SYSTEM - COMMERCIAL</p> <p>A. PROVIDE ADDITIONAL DETECTION DEVICES AND NOTIFICATION APPLIANCES AS INDICATED AND CONNECT TO THE (E) FACP. FIRE ALARM EQUIPMENT SHALL BE FROM SAME MANUFACTURER AS EXISTING AND MAINTAIN UL RATING OF SYSTEM. MATCH EXISTING CONDUCTOR, CABLE, AND RACEWAY INSTALLATION METHODS, UON.</p> <p>B. PROVIDE THE FOLLOWING SUBMITTALS:</p> <ol style="list-style-type: none"> DETECTION DEVICE PRODUCT DATA; NOTIFICATION APPLIANCE PRODUCT DATA; CABLE PRODUCT DATA; BATTERY CALCULATIONS FOR MODIFIED NOTIFICATION CIRCUITS; VOLTAGE DROP CALCULATIONS; AND CERTIFICATION THAT ADDITIONAL DETECTION DEVICES DO NOT EXCEED ALLOWABLE NUMBER ON EACH MODIFIED CIRCUIT. <p>C. UPDATE FIRE ALARM SYSTEM SOFTWARE, PROGRAMMING, AND DOCUMENTATION. PERFORM TESTING ON FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA-72-2007 SECTION 10.4. SUBMIT INSPECTION AND TESTING RECORDS IN ACCORDANCE WITH NFPA-72-2007 SECTION 10.6.</p> <p>TELECOMMUNICATIONS - COMMERCIAL</p> <p>A. COMPLY WITH TIA/EIA-569-A "COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS AND SPACES". COORDINATE LAYOUT AND INSTALLATION OF TELECOMMUNICATIONS EQUIPMENT WITH OWNER AND SERVICE SUPPLIERS. COORDINATE SERVICE ENTRANCE ARRANGEMENT WITH LOCAL EXCHANGE CARRIER.</p> <p>B. OUTLETS: PROVIDE QUADRIPLEX OUTLET ASSEMBLY IN DOUBLE-GANG BACK-BOX WITH SPECIFIC OUTLETS AS INDICATED. PROVIDE MATCHING BLANK PLATES FOR UNUSED POSITIONS.</p> <p>C. TELEPHONE OUTLETS: TIA/EIA-568-B.1 RJ-45, 100-OHM, BALANCED, 4-PAIR/8-POSITION, TWISTED PAIR CONNECTOR.</p> <p>D. DATA OUTLETS: TIA/EIA-568-B.1 RJ-45, 100-OHM, BALANCED, 4-PAIR/8-POSITION, TWISTED PAIR CONNECTOR.</p> <p>E. TV OUTLETS: TYPE F COAXIAL CONNECTORS.</p> <p>F. CABLING: PULL, TERMINATE, AND TEST CABLE BETWEEN EVERY CONNECTED OUTLET AND PATCH PANEL. LABEL EACH OUTLET AND CORRESPONDING CABLE END AT PATCH PANEL. TERMINATE ALL ELEMENTS IN ALL CABLES. DO NOT SPLICE CABLES. SUPPORT CABLES AT INTERVALS NOT EXCEEDING 30 INCHES AND NOT MORE THAN 6 INCHES FROM CABINETS, BOXES, RACKS, FRAMES, AND TERMINALS. TEST EACH CAT-6 CABLE FOR CAT-6 PERFORMANCE. CABLE MATERIAL REQUIREMENTS ARE:</p> <p>DATA CABLE: CAT 6 PLENUM-RATED 100-OHM UTP WITH 4-PAIR X 24 AWG.</p> <p>VOICE CABLE: CAT 6 PLENUM-RATED 100-OHM UTP WITH 4-PAIR X 24 AWG.</p> <p>COAXIAL CABLE: SERIES-6, 75-OHM.</p> <p>GROUNDING</p> <p>A. PROVIDE GROUNDING IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND ADDITIONALLY AS INDICATED.</p> | <p>CITY OF LYNCHBURG</p> <p>PUBLIC SAFETY BUILDING</p> <p>BASEMENT INTERIOR RENOVATIONS</p> <p>LYNCHBURG, VIRGINIA</p> <p>LEGEND AND SPECIFICATIONS</p> <p>Full Scale Verification</p> <p>0" 1"</p> <p>Drawing No.:</p> <p>E1</p> <p>DATE: 26 FEB 15</p> <p>PROJECT NO: 14111</p> <p>REVISIONS</p> <p>NO.</p> <p>BY</p> <p>DATE</p> |
|--|---|---|---|--|



LIGHTING FIXTURE SCHEDULE

| TYPE | MFGR | CATALOG NUMBER | VOLTS | VOLT-AMPS | | | | DESCRIPTION AND COMMENTS |
|------|----------|-------------------------|-------|-----------|-----|------|----------|---|
| | | | | | QTY | TYPE | COMMENTS | |
| A | LITHONIA | 2GTL 4 40L LP840 | 277 | 39 | 1 | LED | 4100K | 2X4 RECESSED TROFFER |
| B | LIGHTWAY | ADMV-24-LED-21-4-W2-CPA | 277 | 21 | 1 | LED | 4000K | MOUNTED ABOVE KITCHEN SINK |
| C | LIGHTWAY | ADMV-48-LED-21-4-W2-CPA | 277 | 42 | 1 | LED | 4000K | WALL MOUNTED ABOVE MIRROR |
| D | WAC LGT | HR-LED 471-WT | 277 | 3 | 1 | LED | 3000K | 4" RECESSED SHOWER LIGHT |
| EX1 | LITHONIA | LHQM-LED-R-SD | 277 | 4.3 | | LED | | UNIVERSAL MOUNTED EXIT/EGRESS COMBINATION, NI-CAD BATTERY AND CHARGER SELF DIAGNOSTIC |
| EM | LITHONIA | ELM2 LED-SD | 277 | 3 | | LED | | EMERGENCY EGRESS, SELF DIAGNOSTICS |

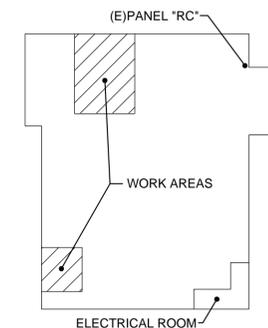
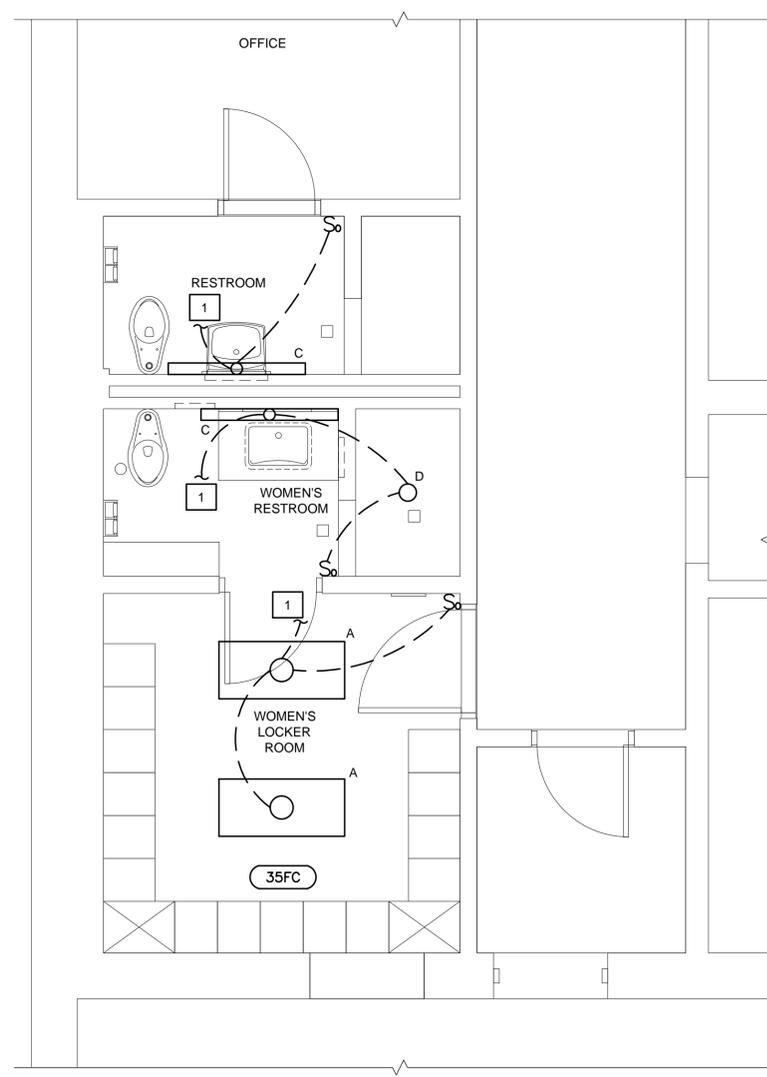
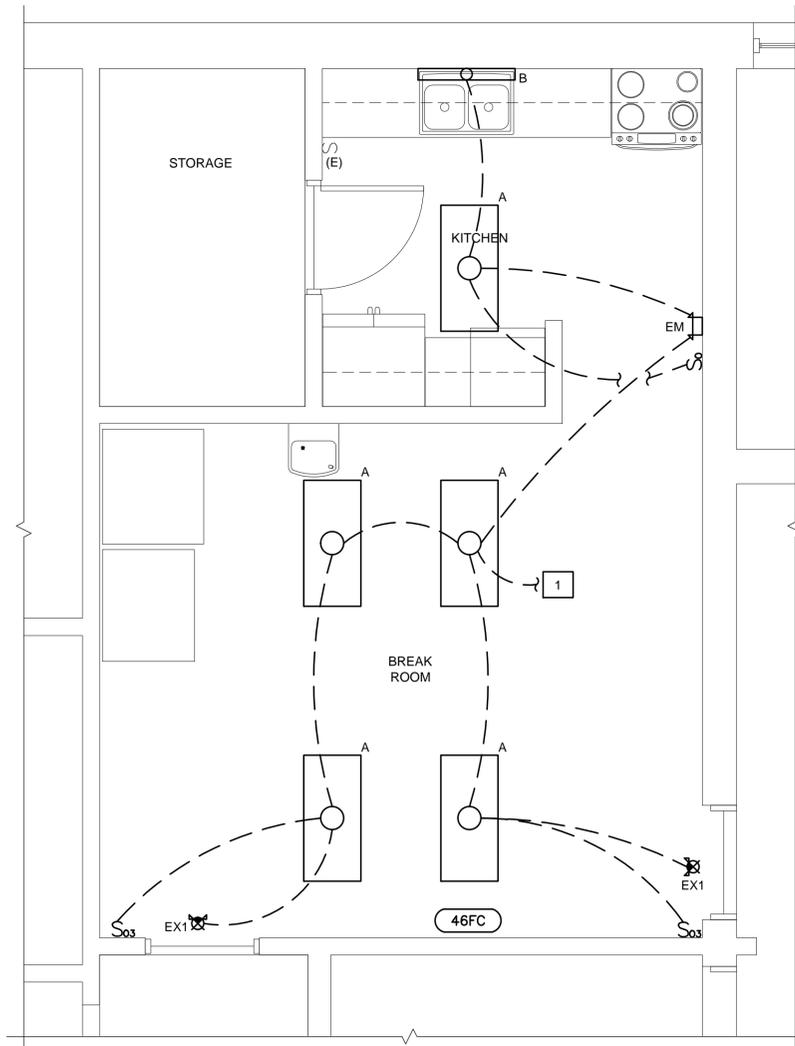
NOTES 1. THESE ARE BASIS-OF-DESIGN LUMINAIRES.

GENERAL NOTES:

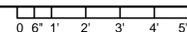
- EXIT AND EGRESS LIGHTS TO BE CIRCUITED AHEAD OF ANY SWITCHING FOR CHARGING AND AREA PROTECTION. PROVIDE UNSWITCHED WIRING LEG TO THESE DEVICES.

CONSTRUCTION NOTES:

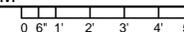
- CONNECT TO (E)CIRCUIT SERVING LIGHTING IN THIS AREA. PANELBOARD IS LOCATED IN THE ELECTRICAL ROOM.



NORTH
PARTIAL BASEMENT LIGHTING PLAN - KITCHEN AREA
SCALE: 3/8"=1'-0"



NORTH
PARTIAL BASEMENT LIGHTING PLAN - WOMEN'S LOCKER ROOM
SCALE: 3/8"=1'-0"



NORTH
KEYPLAN - BASEMENT
SCALE: NONE

| NO. | BY | REVISIONS | DATE |
|-----|----|-----------|------|
| | | | |
| | | | |
| | | | |



CITY OF LYNCHBURG
PUBLIC SAFETY BUILDING
BASEMENT INTERIOR RENOVATIONS
LYNCHBURG, VIRGINIA

LIGHTING PLAN,
NOTES, AND SCHEDULE

PROJECT NO.: 14111
DATE: 26 FEB 15

Full Scale Verification
0" = 1"

Drawing No.: **E3**