

**CALHOUN-GILMER CAREER CENTER
CALHOUN COUNTY, WEST VIRGINIA
CALHOUN-GILMER CAREER CENTER RESTROOM RENOVATIONS**

ADDENDUM #1

AUGUST 5, 2021

THRASHER PROJECT #060-10226

TO WHOM IT MAY CONCERN:

A Pre-Bid Conference was held on Wednesday, August 4, 2021 on the above-referenced project, a copy of the sign in sheet is included in this Addendum. The following are clarifications and responses to questions posed by contractors for the above reference project.

A. GENERAL

1. The words "Agency Review" and "Preliminary" have been removed from all documents. This the only revision to the documents.

B. SPECIFICATIONS

1. The words "Agency Review" has been removed from the Specifications

C. DRAWINGS

1. The words "Agency Review" and "Preliminary" have been removed from all drawings

D. QUESTIONS AND RESPONSES

QUESTION


1. All questions will all be addressed in Addendum #2.

E. CLARIFICATIONS

If you have any questions or comments, please feel free to contact me at your earliest convenience. As a reminder, bids will be received until **1:30 p.m. on Wednesday, August 18, 2021** at Calhoun-Gilmer Career Center, 5260 E. Little Kanawha Highway, Grantsville, WV. Good luck to everyone and thank you for your interest in the project.

Sincerely,

THE THRASHER GROUP, INC.



Amanda Chevront, Architect
Project Manager



**CALHOUN-GILMER CAREER CENTER
CALHOUN COUNTY, WEST VIRGINIA
CALHOUN-GILMER CAREER CENTER RESTROOM RENOVATIONS**

MANDATORY PRE-BID CONFERENCE

Wednesday, August 4, 2021

Thrasher Project #060-10226

Name	Representing	Phone #	Email Address
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Pete Martin	Gonday Enterprises	304-437-1974	gonday138@gmail.com
Matthew Dancy	MJD Contracting	304-517-8662	MatthewDancy@hotmail.com
Steven A. Kinder	Start to Finish Construction	304-532-6455	s2fconstruction@yahoo.com
Chris Dozier	Danhill Construction	304-553-1553	cdozier33@yahoo.com
Tom Simms	BBL Construction LLC	304-345-1300	tsimms@bblconstruction.com



COMPLEX PROJECTS
REQUIRE RESOLVE
THRASHER'S GOT IT

CONTRACT DOCUMENTS

AND

DETAILED SPECIFICATIONS

FOR

CALHOUN-GILMER CAREER CENTER RESTROOM RENOVATIONS

CALHOUN-GILMER CAREER CENTER GRANTSVILLE, WEST VIRGINIA

JUNE 24, 2021

THRASHER PROJECT #060-10226

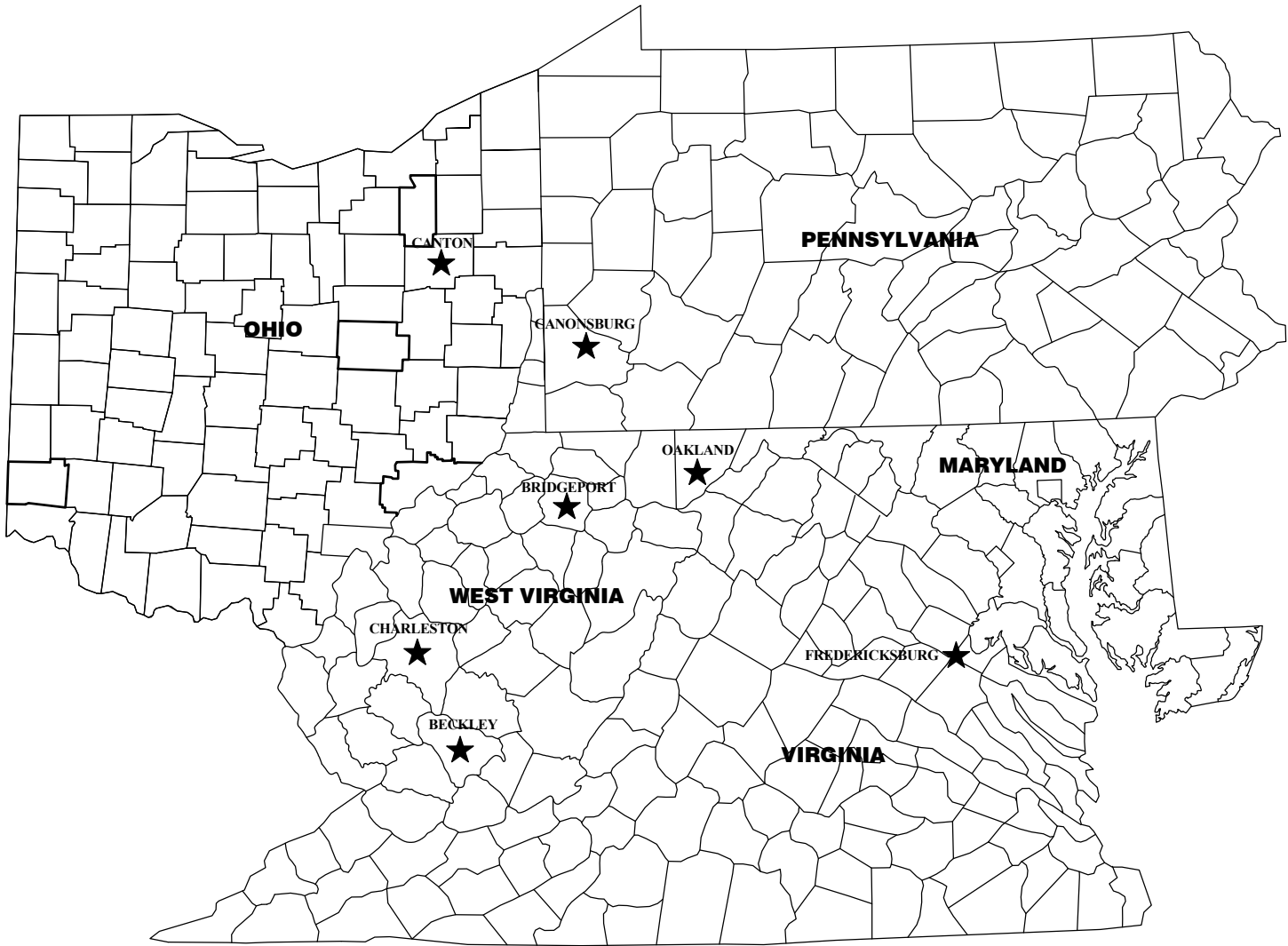


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USER: Author

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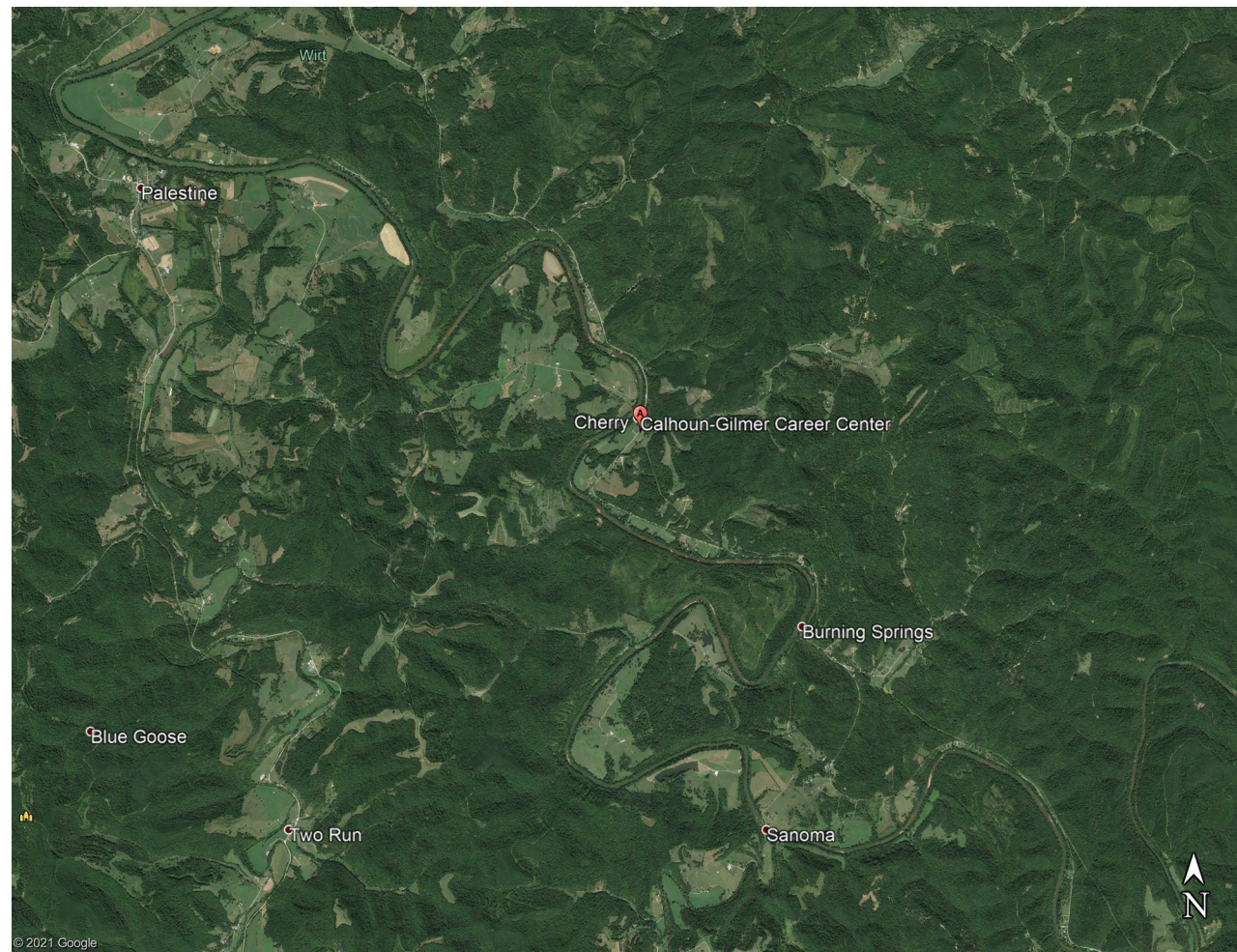


CONSTRUCTION DOCUMENT DRAWINGS FOR: CALHOUN-GILMER CAREER CENTER RESTROOM RENOVATIONS GRANTSVILLE, WV

JUNE 24, 2021

INDEX OF DRAWINGS

G0.00	COVER SHEET
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VICINITY MAP

STANDARD ABBREVIATIONS

A.C.T.	ACOUSTIC CEILING TILE	JT.	JOINT
ABV.	ABOVE	L.V.L.	LAMINATED VENEER LUMBER
A.F.F.	ABOVE FINISHED FLOOR	MAS.	MASONRY
ALUM.	ALUMINUM	MAX.	MAXIMUM
BLDG.	BUILDING	MCJ.	MASONRY CONTROL JOINT
BLK.	BLOCK	MFR.	MANUFACTURER
B.O.F.	BOTTOM OF FOOTING	MIN.	MINIMUM
BRG.	BEARING	MTL.	METAL
BRK.	BRICK	N.I.C.	NOT IN CONTRACT
C.J.	CONTROL JOINT	N.T.S.	NOT TO SCALE
CLG.	CEILING	OSB.	ORIENTED STRAND BOARD
C.T.	CERAMIC TILE	PERF.	PERFORATED
CMU	CONCRETE MASONRY UNIT	PLT.	PLATE
COL.	COLUMN	PLYWD.	PLYWOOD
COMP.	COMPACTED	PR. TRTD.	PRESSURE TREATED
CONC.	CONCRETE	PT.	PAINT
CONT.	CONTINUOUS	PTD.	PAINTED
DIA.	DIAMETER	REQD.	REQUIRED
E.J.	EXPANSION JOINT	SECT.	SECTION
ELEV.	ELEVATION	SF.	SQUARE FEET
EXP.	EXPANSION	STD.	STANDARD
EXT.	EXTERIOR	STL.	STEEL
EXIST.	EXISTING	SUSP.	SUSPENDED
F.F.E.	FINISHED FLOOR ELEVATION	T.O.F.	TOP OF FOOTING
F.E.C.	FIRE EXTINGUISHER CABINET	T.O.M.	TOP OF MASONRY
FTG.	FOOTING	T.O.R.	TOP OF ROOF
GCT	GLAZED CERAMIC TILE	T.O.S.	TOP OF STEEL
G.W.B.	GYPSUM WALL BOARD	TYP.	TYPICAL
H.M.	HOLLOW METAL	U.N.O.	UNLESS NOTED OTHERWISE
HORIZ.	HORIZONTAL	VERT.	VERTICAL
HT.	HEIGHT	V.I.F.	VERIFY IN FIELD
INSUL.	INSULATION	V.E.T.	VINYL ENHANCED TILE
INT.	INTERIOR	WA.	WAINSCOT
		W.P.	WALL COVERING

STANDARD DRAWING SYMBOLS

BUILDING SECTION	
WALL SECTION	
EXTERIOR ELEVATION	
INTERIOR ELEVATION	
WALL TAG	
DOOR TAG	
WINDOW TAG	



OWNER

CALHOUN-GILMER CAREER CENTER

5260 E. LITTLE KANAWHA HIGHWAY
GRANTSVILLE, WV 26147

PROJECT DATA

<GENERAL DESCRIPTION>	
IBC CONSTRUCTION TYPE:	IIB
IBC OCCUPANCY TYPE:	E
NFPA CONSTRUCTION TYPE:	II(000)
NFPA OCCUPANCY GROUP:	EDUCATION
SPRINKLERED:	NO
TOTAL OCCUPANCY AREA: <SQ. FT.>	
MAIN BUILDING:	31,984.14 SF
ANNEX A:	3,710.6 SF
ANNEX B:	1,248 SF

GENERAL CODE COMPLIANCES

2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL PLUMBING CODE
2015 INTERNATIONAL MECHANICAL CODE
2009 INTERNATIONAL ENERGY CONSERVATION CODE
2015 NFPA 101 - LIFE SAFETY CODE
2014 NFPA 70 - NATIONAL ELECTRIC CODE
WV STATE FIRE CODE - ADOPTED JULY 1, 2016

THRASHER INFORMATION

PROJECT NUMBER: 060-10226
PROJECT ARCHITECT: AMANDA CHEUVRONT, (304)-343-7601

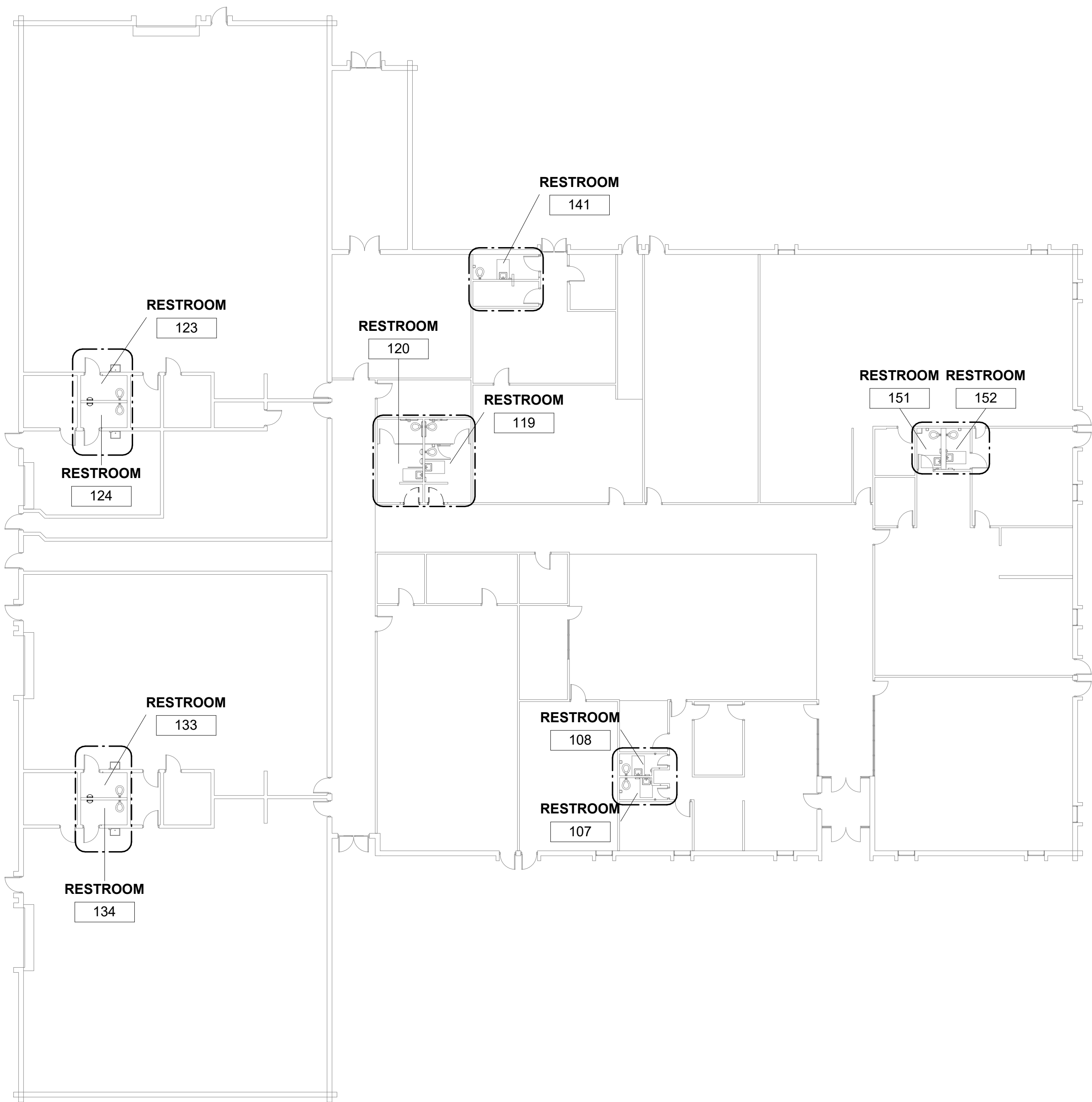
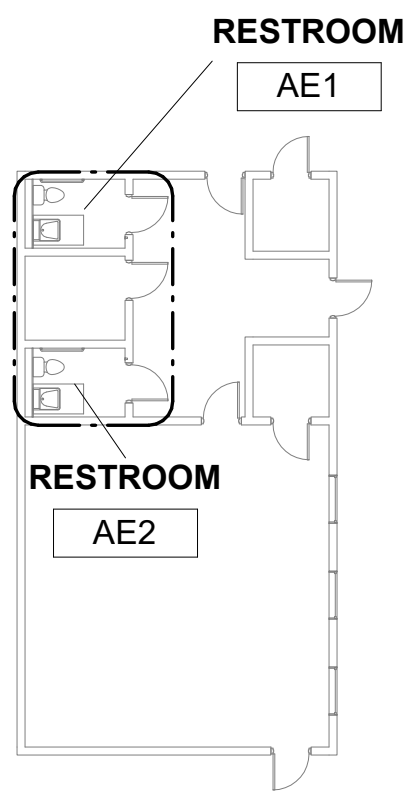
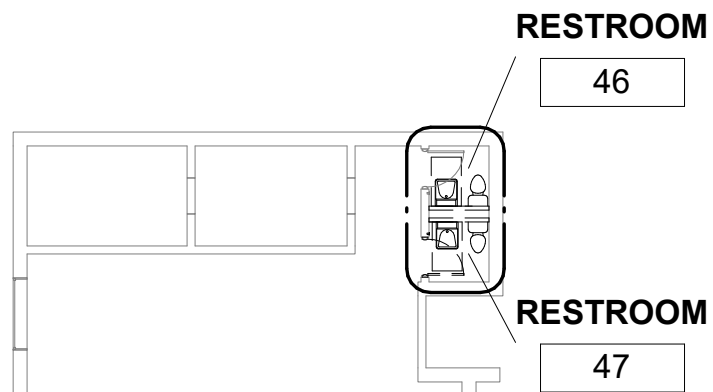
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LAYOUT TAB: OVERALL FLOOR PLAN
CADD FILE: R:\000000\10226\00 Calhoun-Gilmer CTC Restroom Renovations\Calhoun-Gilmer CTC Restroom Renovations\Restroom Renovations\Restroom Renovations.rvt
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1 OVERALL FLOOR PLAN
A1.01 1/16" = 1'-0"

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PHASE No.
CONTRACT No.
PROJECT No.
060-10226

OVERALL FLOOR PLAN
CALHOUN-GILMER CTC RESTROOM RENOVATIONS
GRANTSVILLE, WV
JUNE 24, 2021
CONSTRUCTION DOCUMENTS

SHEET No.
A1.01

FIXTURE SCHEDULE						
MARK	DESCRIPTION	HW	CW	SAN	VENT	MOUNTING HEIGHT
<u>WC-1H</u>	WATER CLOSET: AMERICAN STANDARD MODEL #3043.001 1.6 GPF MADERA FLOWISE ENLARGATED FLUSHOMETER TOILET WHITE FINISH. TOILET COVER: AMERICAN STANDARD MODEL #5901.100 HEAVY DUTY OPEN FRONT LESS COVER. FLUSHOMETER VALVE: AMERICAN STANDARD SENSOR-OPERATED SELECTRONIC DC POWER #6065.161.002.	----	1"	4"	2"	FLOOR SET
<u>L-1</u>	LAVATORY: AMERICAN STANDARD MODEL #0355.012 LUCERNE WALL-HUNG LAVATORY WHITE FINISH. LAVATORY FAUCET: AMERICAN STANDARD MODEL #6053.202 1.5 GPM INNSBROOK SELECTRONIC LAVATORY FAUCET. PWRX 10 YEAR BATTERY POWERED. INCLUDE WALL HANGER.	1/2"	1/2"	1 1/2"	1 1/2"	31" TO RIM
<u>L-1H</u>	SAME AS FIXTURE "L-1" EXCEPT RIM HEIGHT.	----	----	----	----	34" TO RIM
<u>FV-1</u>	WATER CLOSET FLUSH VALVE: AMERICAN STANDARD MODEL#6065.161.002 SENSOR-OPERATED SELECTRONIC DC POWER.	----	1"	----	----	----
<u>UF-1</u>	URINAL FLUSH VALVE: AMERICAN STANDARD MODEL #6065.161.002 SENSOR-OPERATED EXPOSED URINAL FLUSH VALVE.	----	3/4"	----	----	----
<u>LF-1</u>	LAVATORY FAUCET: AMERICAN STANDARD MODEL #6053.202 1.5 GPM INNSBROOK SELECTRONIC LAVATORY FAUCET. PWRX 10 YEAR BATTERY POWERED.	1/2"	1/2"	----	----	----

GENERAL PLUMBING NOTES

- PERFORM ALL WORK IN ACCORDANCE WITH CURRENT EDITION OF INTERNATIONAL PLUMBING CODE AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
- CONTRACTOR SHALL VISIT SITE TO VERIFY ALL EXISTING CONDITIONS THAT MAY AFFECT WORK.
- CONTRACT SHALL INCLUDE ALL MATERIALS, LABOR, TOOLS, ETC., FOR A COMPLETE AND OPERABLE INSTALLATION. ALL MATERIALS SHALL BE NEW, SPECIFICATION GRADE, AND U.L. LISTED PRODUCTS, UNLESS NOTED OTHERWISE.
- COORDINATE ALL WORK AND SCHEDULES WITH OWNER, ARCHITECT, OTHER CONTRACTORS AND BUILDING MANAGEMENT.
- STORE MATERIALS WHERE DIRECTED, PROTECT STORED MATERIALS AND INSTALLED WORK FROM DAMAGE. REPLACE ALL DAMAGED ITEMS WITH NEW.
- REMOVE DIRT, DEBRIS AND UNUSED MATERIALS FROM SITE REGULARLY AND DISPOSE OF BY PROPER AND LEGAL METHODS.
- PROVIDE UNIONS AND VALVES AT ALL EQUIPMENT.
- PROVIDE PROPER SEALS AND FIRE STOPPING AT ALL WALL, FLOOR AND CEILING PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND RATINGS FOR WALLS, FLOORS, AND CEILINGS.
- PERFORM TESTING AND MAKE FINAL ADJUSTMENTS TO VERIFY PROPER PERFORMANCE OF ALL SYSTEMS AND EQUIPMENT.
- MAINTAIN "AS BUILT" RECORDS OF ALL INSTALLED ITEMS AND PROVIDE TO ARCHITECT AT PROJECT COMPLETION.
- MOUNT ALL HANDICAP ACCESSIBLE DEVICES AND EQUIPMENT PER UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS)
- COORDINATE ALL SANITARY, VENT AND DOMESTIC PIPING ELEVATIONS WITH OTHER CONTRACTORS PRIOR TO INSTALLING ANY PIPING.
- PIPING SHALL NOT BE ROUTED ABOVE ELECTRIC PANELS.

GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE INTERNATIONAL PLUMBING CODE & LOCAL AUTHORITIES HAVING JURISDICTION.
- ALL PIPING IN EXTERIOR WALLS TO BE RUN ON BUILDING SIDE OF INSULATION.
- PIPING LAYOUT IS SCHEMATIC, EXACT LOCATIONS OF PIPES TO BE COORDINATED WITH BUILDING STRUCTURE AND WORK OF OTHER TRADES.
- MINIMUM PIPE SLOPE ON THE DRAINAGE AND VENT SYSTEM WITHIN THE BUILDING:
 - ALL PIPE UP TO AND INCLUDING 3" SHALL SLOPE AT LEAST 1/4" PER FOOT.
 - ALL PIPE 4" AND LARGER SHALL SLOPE AT LEAST 1/8" PER FOOT.
- PIPING SHALL NOT BE ROUTED ABOVE ELECTRIC PANELS.
- COORDINATE PIPING IN TOILET AREAS WITH RECESSED TOILET ACCESSORIES. OFFSET PIPING AS REQUIRED TO ALLOW RECESS OF THESE ITEMS. SEE ENLARGED TOILET PLANS FOR LOCATIONS.
- WATER HAMMER ARRESTORS, SIZED PER PDI, SHALL BE PROVIDED ON THE SUPPLY PIPING TO EACH QUICK CLOSING VALVE (E.G. WATER CLOSETS, URINALS, SENSOR SENSOR OPERATED FAUCETS, ICE MACHINE SUPPLY BOXES, WATER COOLERS, WASHING MACHINE SUPPLY BOXES, DISHWASHERS, ETC). ARRESTORS SHALL BE DOUBLE SEAL PISTON TYPE WITH THREADED CONNECTIONS, LISTED FOR CONCEALED INSTALLATIONS WITHOUT ACCESS PANELS.

PLUMBING SYMBOLS

SYMBOL	DESCRIPTION
	COLD WATER LINE
	HOT WATER LINE
	HOT WATER RECIRC. LINE
	SANITARY SEWER LINE
	VENT LINE
	STORM SEWER LINE
	COMPRESS AIR LINE
	RAIN WATER LEADER LINE
	FIXTURE DESIGNATION
	PLAN NOTE
	WALL HYDRANT
	HOSE BIB
	TURN UP OR FROM BELOW
	TURN DOWN
	VENT THRU ROOF
	BALL VALVE
	UNION
	FLOOR CLEANOUT
	SURFACE CLEANOUT
	FLOOR DRAIN WITH TRAP
	ROOF DRAIN
	DOWN SPOUT WITH CLEANOUT
	CLEANOUT

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PHASE No.
CONTRACT No.
PROJECT No.
060-10226

SCHEDULE, NOTES & SYMBOLS - PLUMBING
CALHOUN-GILMER CTC RESTROOM RENOVATIONS
GRANTSVILLE, WV
JUNE 24, 2021
CONSTRUCTION DOCUMENTS

SHEET No.

P1.01

PLUMBING SPECIFICATIONS:

PART 1 - GENERAL

- I. DESCRIPTION OF THE WORK
- A. THE EXTENT OF THE PLUMBING WORK IS INDICATED ON THE DRAWINGS.
- II. CODES
- A. ALL EQUIPMENT AND THE ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE, O.S.H.A. REQUIREMENTS, LIFE SAFETY CODE AND ALL APPLICABLE LOCAL AND STATE LAWS AND ORDINANCES.
- B. THE CONTRACTOR SHALL PAY ALL INSPECTION FEES AND PURCHASE ALL PERMITS REQUIRED FOR THIS WORK.
- III. LOCATION OF EQUIPMENT
- A. THE CONTRACTOR SHALL NOTE THAT THE PLUMBING DRAWINGS ARE INTENDED TO INDICATE ONLY THE EXTENT DIAGRAMMATICALLY, GENERAL CHARACTER AND LOCATION OF THE WORK. WORK INTENDED, BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED, SHALL BE FURNISHED AND INSTALLED COMPLETE BY THIS CONTRACTOR AT HIS EXPENSE.
- IV. ROUGH-IN
- A. VERIFY FINAL LOCATIONS FOR ROUGH-INS WITH SHOP DRAWINGS, FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED PRIOR TO ROUGH-IN.
- B. REFER TO EQUIPMENT SPECIFICATIONS IN DIVISIONS THROUGH 15 FOR ROUGH-IN REQUIREMENTS.
- C. OBTAIN FROM OWNER AND GENERAL CONTRACTOR COPIES OF "EQUIPMENT BROCHURE" AND A SET OF SHOP DRAWINGS OF EQUIPMENT BEFORE ROUGHING IN ANY WATER, WASTE, CONNECTIONS, ETC. CHANGES RESULTING FROM FAILURE TO OBTAIN THIS INFORMATION WILL NOT RESULT IN ADDITIONAL COST.
- V. WARRANTIES
- A. GUARANTEE ALL PLUMBING SYSTEM MATERIALS AND WORKMANSHIP TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE AND PROPERLY CORRECT LATENT DEFECTS ARISING WITHIN THIS PERIOD UPON NOTIFICATION BY THE OWNER'S REPRESENTATIVE WITHOUT ADDITIONAL COMPENSATION.
- VI. CHANGES
- A. THE DRAWINGS INDICATE GENERALLY THE LOCATIONS OF PLUMBING FIXTURES, APPARATUS, PIPING, ETC., BUT IF, BEFORE INSTALLATION, IT IS FOUND NECESSARY TO CHANGE THE LOCATION OF SAME TO ACCOMMODATE THE CONDITIONS AT THE BUILDING, SUCH CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER AND AS DIRECTED BY THE OWNER.
- VII. PLUMBING SUBMITTALS:
- A. SUBMITTALS ARE REQUIRED ON THE FOLLOWING ITEMS AND THEY MUST BE SELECTED FROM ONE OF THE MANUFACTURERS LISTED:
1. PLUMBING FIXTURES
- a. KOHLER
- b. AMERICAN STANDARD
- c. ELJER
2. FLOOR DRAINS AND SINKS
- a. ZURN
- b. J.R. SMITH
- c. WADE
3. CLEANOUTS
- a. ZURN
- b. J.R. SMITH
- c. WADE
4. PLUMBING FIXTURE SUPPORTS
- a. ZURN
- b. J.R. SMITH
- c. WADE
- VIII. AS BUILT DRAWINGS
- A. FURNISH THE OWNER THREE (3) SETS OF AS-BUILT DRAWINGS UPON COMPLETION OF THE WORK.
- PART 2 - PRODUCTS
- I. PIPING
- A. SANITARY DRAIN LINES AND BRANCHES UNDER FLOOR SLAB SHALL BE SERVICE WEIGHT CAST IRON HUB AND SPIGOT OR SCHEDULE 40 PVC. CAST IRON NO-HUB PIPE SHALL BE USED ABOVE FLOOR SLAB ONLY. PVC MAY BE USED AS ALLOWED BY CODE.
- B. HOT AND COLD WATER PIPE ABOVE CEILING SHALL BE TYPE "L" HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS, 95-5 SOLDER JOINTS.

- C. ALL WATER PIPING BELOW SLAB SHALL BE TYPE "L" SOFT COPPER WITH NO JOINTS UNDER SLAB. FITTINGS TO BE WROUGHT COPPER WITH 95-5 SOLDER JOINTS.
- D. GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL.
- E. EXPOSED PIPE IN RESTROOMS SHALL BE CHROME PLATED BRASS WITH CHROME PLATED WALL PLATES, AMERICAN BRASS CO. OR EQUIVALENT.
- II. CLEANOUTS
- A. WALL CLEANOUTS SHALL BE CAST IRON WITH BRASS PLUG AND POLISHED BRASS ACCESS COVER WITH COUNTER SUNK BRASS SCREW. THEY SHALL BE OF STANDARD PIPE SIZES.
- B. FLOOR CLEANOUTS SHALL HAVE CAST IRON BODY, NICKEL BRONZE SCORIATED TOP AND RUBBER GASKETED CONNECTION, EQUAL TO ZURN MODEL ZN-1400-2.
- III. VALVES
- A. BALL VALVES SHALL BE 125 POUND, SCREWED, ALL BRONZE, TWO PIECE, FULL PORT DESIGN. NIBCO T-580 OR EQUIVALENT.
- IV. P-TRAPS
- A. FLOOR DRAINS AND HUB DRAINS SHALL HAVE CAST IRON DEEP SEAL TRAPS NOT TO BE INTEGRAL WITH DRAINS.
- B. SINKS AND LAVATORIES SHALL HAVE CHROME PLATED COPPER P-TRAPS 17 GA. MIN.
- V. ESCUTCHEON PLATES
- A. CHROME PLATED ESCUTCHEON PLATES FOR ALL EXPOSED PIPE PASSING THROUGH WALLS, FLOORS OR CEILINGS.
- VI. FLOOR DRAINS AND FLOOR SINK
- A. FLOOR DRAIN SHALL BE EQUAL TO ZURN MODEL ZN-415-B WITH 5" ROUND STRAINER.
- B. FLOOR RECEPTOR SHALL BE EQUAL TO ZURN MODEL ZS-1900-2 (1/2 GRATE).
- VII. PIPE INSULATION
- A. INSULATE HOT AND COLD WATER PIPING WITH 3/4" THICK FLEXIBLE ELASTOMERIC CELLULAR PIPE INSULATION. SELF SEALING JACKET.
- PART 3 - EXECUTION
- I. INSTALLATION OF PIPING
- A. ON VERTICAL SANITARY DRAIN LINES, CONNECT ALL SOIL AND WASTE INLETS THROUGH SANITARY TEES, WYES, OR WYES AND EIGHTH BENDS. SHORT RADIUS FITTINGS MAY BE USED FOR VENT PIPING. ON HORIZONTAL LINES, CONNECT ALL WASTE AND SOIL CONNECTIONS THROUGH WYES, OR WYES AND EIGHTH BENDS. DOUBLE BRANCH FITTINGS MAY BE USED ON VERTICAL LINES AND HORIZONTAL RUNS PROVIDING PROPER GRADES CAN BE MAINTAINED.
- B. MAKE SCREW JOINTS BETWEEN CAST IRON PIPES AND OTHER PIPES WATER-TIGHT WITH APPROVED COMPOUND. JOIN BELL & SPIGOT PIPING WITH THE USE OF AN APPROVED NEOPRENE RUBBER GASKET CONFORMING TO ASTM C 564.
- C. LAY HORIZONTAL DRAIN PIPES TO UNIFORM GRADE; RISER PIPES, VERTICAL. MAKE CHANGES IN DIRECTIONS OF DRAIN PIPES WITH LONG BENDS. NO SCREWED JOINTS PERMITTED IN DRAIN PIPES, EXCEPT AS DESCRIBED HEREIN BEFORE.
- D. PITCH ALL HORIZONTAL DRAINS 1/8" PER FOOT MINIMUM, OR AS PER LOCAL CODE.
- E. PROVIDE CLEANOUTS AT EVERY CHANGE IN DIRECTION OF MORE THAN FORTY-FIVE DEGREES AND EVERY FIFTY FEET AS REQUIRED BY LOCAL CODES.
- F. CUT BRASS AND COPPER PIPE BY MEANS OF A TUBING CUTTER. REMOVE ALL BURRS AND METAL CHIPS, DIRT, ETC., BEFORE JOINING PIPE. CHROME PLATED PIPE SHALL SHOW NO WRENCH MARKS AFTER INSTALLATION; NO THREADS SHALL SHOW.
- G. ADEQUATELY SUPPORT ALL PIPING ABOVE FLOORS, INSIDE THE BUILDING FROM OR ON THE BUILDING STRUCTURE. SUPPORT PIPING SUSPENDED FROM THE BUILDING STRUCTURE BY MEANS OF THE SPECIFIED PIPE HANGERS AND RODS. MAKE MAXIMUM SPACING BETWEEN PIPE SUPPORTS AS FOLLOWS:
- NOMINAL PIPE SIZE MAXIMUM SPAN
- 3/4" & UNDER 5'
- 1" 7'
- 1-1/4" 7'
- 1-1/2" 9'
- 2" 10'
- 2-1/2" 11'
- 3" 12'
- 4" 14'
- II. INSTALLATION OF VALVES
- A. ISOLATE ALL MAJOR PIPING ASSEMBLIES AS SHOWN ON THE DRAWINGS AND AS REQUIRED FOR PROPER OPERATION AND MAINTENANCE. ALL VALVES SHALL BE ACCESSIBLE. PROVIDE VALVE BOXES AND ACCESS PANELS WHERE REQUIRED FOR ACCESSIBILITY.

- III. INSTALLATION OF TRAPS
- A. TRAP EACH FIXTURE BY WATER SEALING TRAP PLACED AS NEAR THE FIXTURE AS POSSIBLE.
- B. VENT ALL TRAPS AS PER LOCAL PLUMBING CODE REQUIREMENTS.
- IV. INSTALLATION OF PIPE SLEEVES
- A. INSTALL PIPE SLEEVES AT ALL LOCATIONS WHERE PIPE PASSES THROUGH WALLS, FLOORS, OR CEILINGS ABOVE OR BELOW GRADE.
- B. WHERE SUBJECT TO MOISTURE, SEAL SLEEVES WITH WATER-TIGHT SEALANT.
- V. INSTALLATION OF AIR CHAMBERS
- A. INSTALL A WATER HAMMER ARRESTOR AT EACH FIXTURE, OR GROUP OF FIXTURES. WATER HAMMER ARRESTERS, SHALL BE ZURN SHOKTROL SIZED AND INSTALLED PER MANUFACTURER'S RECOMMENDATION.
- VI. INSTALLATION OF FIXTURE TRIM AND FITTINGS
- A. INSTALL THE FIXTURE TRIM AND FITTINGS SPECIFIED, TAKING CARE TO PROPERLY ANCHOR EACH FIXTURE.
- B. WHEN THE USE OF A WRENCH IS NECESSARY ON CHROMIUM PLATED PIPING PROTECT THE PIPE FROM MARRING BY USE OF FELT OR CLOTH WRAPPING BENEATH WRENCH JAWS.
- VII. INSTALLATION OF GAS PIPING
- A. INSTALL GAS PIPING IN ACCORDANCE WITH ALL APPLICABLE CODES. INSTALLATION SHALL CONFORM TO SMACCN A GUIDELINES FOR SEISMIC ZONE AT PROJECT LOCATION.
- B. PAINT EXPOSED GAS PIPING WITH ONE COAT PRIMER AND TWO COATS OF GREEN EPOXY.
- VIII. INSTALLATION OF PIPE INSULATION
- A. INSULATE ALL WATER PIPING AND CONDENSATE DRAINAGE PIPING. ALSO INSULATE ALL DRAIN LINES FROM ICE BINS.
- IX. TESTS AND INSPECTIONS
- A. MAKE ALL WATER, AIR AND GAS TESTS OF THE PIPING SYSTEMS IN THE PRESENCE OF AND TO THE SATISFACTION OF THE OWNER OR HIS DESIGNATED REPRESENTATIVE, AND LOCAL OFFICIALS. CONDUCT THESE TESTS AT SUCH PLACES AND WITH TIMING TO PERMIT WORK TO PROCEED WITH AS LITTLE INTERRUPTION AS POSSIBLE. MAKE TEST BEFORE WORK IS CONCEALED.
- B. TEST WATER PIPING TO HYDROSTATIC PRESSURE OF 150 PSI AND HOLD FOR 4 HOURS WITH LESS THAN 2 PSI LOSS IN PRESSURE. TEST GAS PIPING AS PER NFPA-54 AND/OR LOCAL AUTHORITY.
- C. AFTER THE INSTALLATION OF SANITARY PIPING AND BEFORE THE PIPE IS CONCEALED OR THE FIXTURES ARE INSTALLED, CAP OR PLUG THE ENDS OF THE SYSTEM AND FILL ALL LINES WITH WATER TO TOP OF VENTS (BUT NOT LESS THAN 10' OF HEAD), ALLOW TO STAND UNTIL A THOROUGH INSPECTION HAS BEEN MADE. SHOULD LEAKS APPEAR, MAKE NECESSARY CORRECTIONS AND REPEAT THE TESTS UNTIL THE SYSTEM IS TIGHT.
- D. DO NOT USE RESIN, CANDLE WAX, OR ANY OTHER SUCH SUBSTANCE FOR STOPPING LEAKS IN CAST IRON SOIL, WASTE OR VENT LINES. CAULKING OF SCREW JOINTS TO STOP LEAKS WILL NOT BE PERMITTED.
- E. LABEL ALL VALVES IN EQUIPMENT ROOM AS TO SERVICE AND FUNCTION WITH BRASS TAGS. PLACE ON VALVES WITH STEEL RINGS. LABEL COLD WATER PIPING, HOT WATER (140 DEG. & 110 DEG.) PIPING, HOT WATER RETURN PIPING AND GAS PIPING WITH PIPE MARKERS. VALVE LABELS AND PIPE MARKERS SHALL BE SETON NAME PLATE CO.
- X. STERILIZATION
- A. THE STERILIZATION PROCESS SHALL COMPLY WITH ALL GOVERNING REGULATIONS AND WITH THE STERILIZATION PROCEDURES RECOMMENDED BY THE AMERICAN WATER WORKS ASSOCIATION. THE CHLORINATION PROCESS MAY BE SIMPLIFIED BY FIRST FLUSING THE SYSTEM THOROUGHLY CLEAN, THEN CHARGING WITH WATER CONTAINING A MINIMUM OF 50 PARTS PER MILLION OF CHLORINE, ALLOWING THIS TO STAND FOR 24 HOURS, THEN THOROUGHLY FLUSHING. AFTER STERILIZATION AND FINAL FLUSHING, THE LOCAL HEALTH AUTHORITY IS TO BE NOTIFIED, AND THEIR FINAL APPROVAL OBTAINED IN WRITING.

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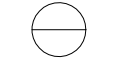
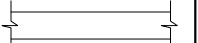

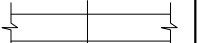
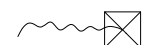





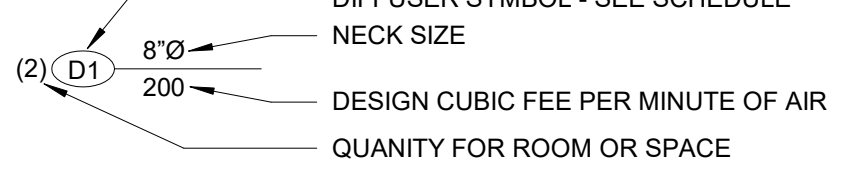
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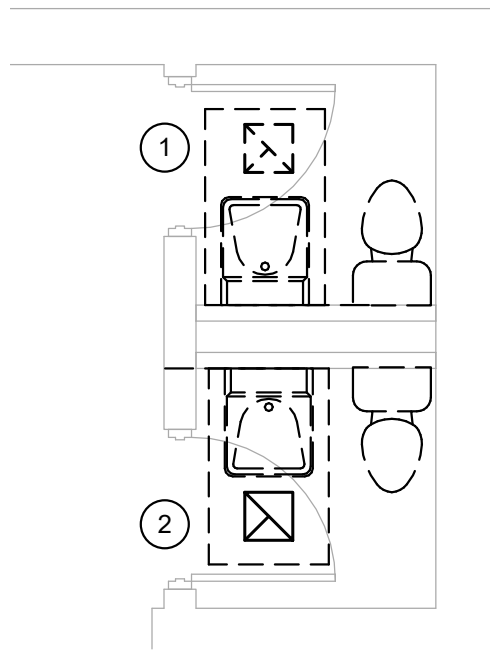
PHASE No.
CONTRACT No.
PROJECT No.
060-10226

PLUMBING SPECIFICATIONS
CALHOUN-GILMER CTC RESTROOM RENOVATIONS
GRANTSVILLE, WV
JUNE 24, 2021
CONSTRUCTION DOCUMENTS

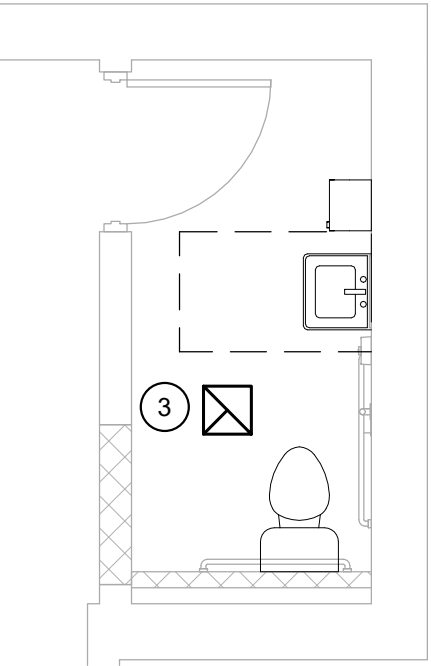
SHEET No.
P1.02

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	EQUIPMENT SYMBOL - SEE LIST ON DWGS.
	RIGID AIR DUCT SYSTEM
	FLEXIBLE DUCT
	MANUAL CONTROL DAMPER (W/LOCKING DEVICE)
	CEILING SUPPLY DIFFUSER
	CEILING RETURN OR EXHAUST GRILLE
	DUCT SIZE INSIDE DIMENSIONS - 24"W x 10"D
	DUCT SIZE - 10" DIAMETER
	THERMOSTAT / SENSOR
	PLAN NOTE
	

MECHANICAL PLAN KEYNOTES	
NOTE #	DESCRIPTION
1	REMOVE EXISTING EXHAUST GRILLE AND DUCT BACK TO MAIN AND CAP.
2	RELOCATE EXISTING EXHAUST GRILLE TO FIT NEW CEILING GRID. LOCATE GRILLE IN CENTER OF TILE. COORDINATE LOCATION WITH LIGHTING AND SPLINKER SYSTEM. SEE NEW WORK PLAN.
3	NEW LOCATION OF EXISTING EXHAUST GRILLE.



RESTROOMS 46 & 47 - DEMOLITION
HVAC
1/4" = 1'-0"



RESTROOMS 46 & 47 - NEW WORK
HVAC
1/4" = 1'-0"

GENERAL MECHANICAL NOTES:

- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE HVAC SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- CERTAIN ITEMS SUCH AS RISES AND DROPS IN DUCTWORK, ACCESS DOORS, VOLUME DAMPERS, ETC., ARE INDICATED FOR CLARITY IN CERTAIN AREAS. THIS DOES NOT RELIEVE THE CONTRACTOR OF PROVIDING THESE ITEMS NOT SHOWN IN OTHER AREAS AS REQUIRED FOR A COMPLETE INSTALLATION.
- UNLESS NOTED OTHERWISE, LOCATE ALL ROOM THERMOSTATS 5'-0" ABOVE FINISH FLOOR.
- ALL DUCTWORK SHALL CLEAR DOORS AND WINDOWS.
- ALL DUCTWORK DIMENSIONS, AS SHOWN ON DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS. DUCT SIZE SHALL BE INCREASED IN SIZE TO COMPENSATE FOR INTERNAL LININGS.
- COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH ARCHITECTURAL PLANS, LIGHTING, AND OTHER ITEMS LOCATED IN CEILING.
- LOCATE ALL MECHANICAL EQUIPMENT FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS, AND VALVING.
- PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS CONNECTED TO AIR HANDLING UNITS, FANS, AND OTHER EQUIPMENT THAT REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION UNLESS NOTED OTHERWISE.
- RUNS OF FLEXIBLE DUCTWORK SHALL NOT EXCEED 5 FEET.
- ALL DUCTS SHALL BE GROUNDED ACROSS FLEXIBLE CONNECTIONS WITH FLEXIBLE COPPER GROUNDING STRAPS.
- TURNING VANES SHALL BE INSTALLED IN ALL RECTANGULAR DUCT ELBOWS THAT EXCEED 45° CHANGE IN DIRECTION.
- INSTALL 1" DUCTLINER IN FIRST 15' OF ALL RETURN AIR DUCTS.
- SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL INSTALL THE SMOKE DETECTOR IN THE DUCTWORK.
- CONTROL RELAYS SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL THE RELAY IN THE EQUIPMENT.

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


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PHASE No.
CONTRACT No.
PROJECT No.
060-10226

LEGEND, NOTES & ENLARGED WORK PLAN - HVAC
CALHOUN-GILMER CTC RESTROOM RENOVATIONS
GRANTSVILLE, WV
JUNE 24, 2021
CONSTRUCTION DOCUMENTS

SHEET No.
M1.01

LAYOUT TAB | LEGEND AND FIXTURE SCHEDULE
CAD FILE: C:\Users\jgarn\Documents\CALHOUN-GILMER RESTROOMS MEP_annota.rvt
PLOT DATE/TIME: 8/9/2024 11:21:05 AM
USER: Author

ELECTRICAL SYMBOL LEGEND		
SYMBOL	DESCRIPTION	MTG. HEIGHT UNO
<u>GENERAL / RACEWAY SYSTEMS</u>		48" AFF
	CEILING MOUNTED LED LIGHT FIXTURE	
	SURFACE OR RECESSED LED LIGHT FIXTURE	
S	NPOD KEY SWITCH	
M	NCM 9 PDT RJB MOTION AND SOUND DETECTOR	
	8"X8"X4" JUNCTION BOX CONTAINING NPP16 POWER RELAY AND NAR40 AUXILIARY CONTACT	
<u>FIRE ALARM SYSTEM/EMERGENCY GENERATOR</u>		
	SMOKE DETECTOR	

GENERAL ELECTRICAL NOTES

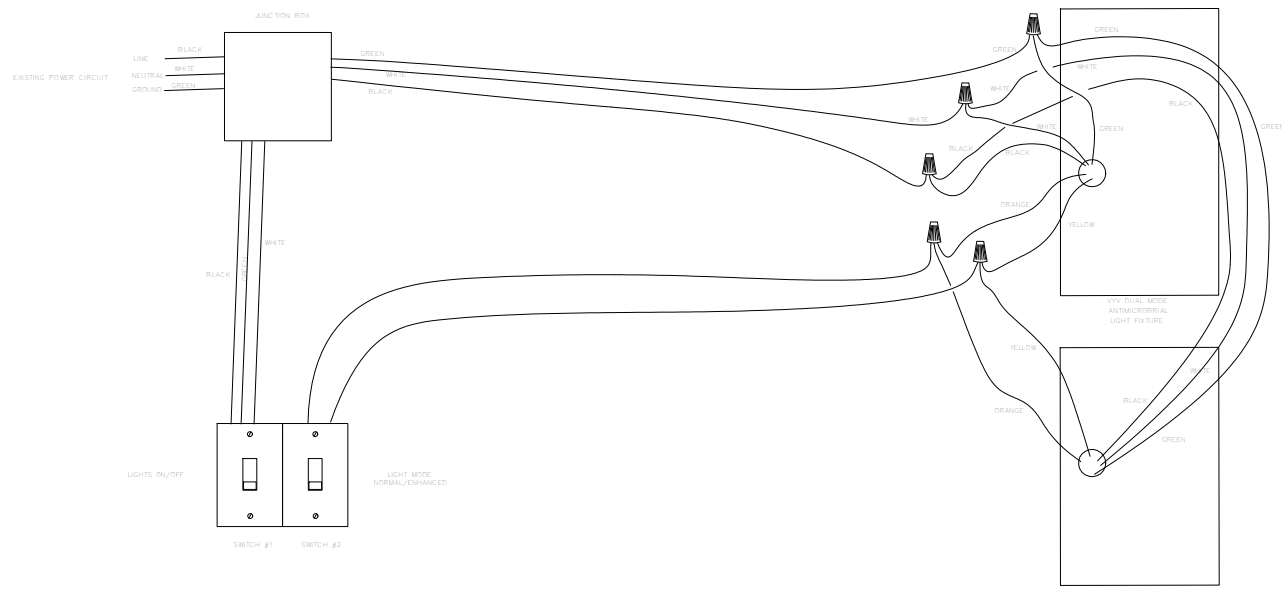
- COORDINATE LOCATIONS OF CEILING-MOUNTED LIGHTING FIXTURES, SPEAKERS AND OTHER ITEMS WITH THE CEILING PATTERN AND MECHANICAL EQUIPMENT.
- CENTER WALL-MOUNTED LIGHTING FIXTURES DIRECTLY OVER ANY RELATED LAVATORY, MIRROR OR OTHER EQUIPMENT.
- LOCATE SNAP SWITCHES APPROXIMATELY 4 TO 6 INCHES FROM THE LATCH SIDE OF THE RELATED DOOR FRAME WHERE POSSIBLE, EXCEPT AS NOTED OTHERWISE.
- LOCATE WALL BOXES APPROXIMATELY AS INDICATED, EXACTLY AS DIRECTED OR AS NECESSARY TO ACHIEVE SYMMETRY AND COORDINATED WITH THE BUILDING, FINISHES AND EQUIPMENT.
- LOCATE ALL BOXES TO BE ACCESSIBLE.
- MOUNT FLUSH BOXES WITH THEIR FRONT EDGES EVEN WITH THE FINISHED SURFACE OF COMBUSTIBLE MATERIALS, WITHIN 1/4 INCH OF NON-COMBUSTIBLE MATERIALS.
- MOUNT SINGLE-GANG BOXES WITH THE LONGER DIMENSION VERTICLE EXCEPT AS NOTED OTHERWISE. MOUNT ALL BOXES AND PLATES PLUM.
- DO NOT INSTALL BOXES BACK TO BACK ON BOTH SIDES OF A PARTITION. OFFSET BOXES A MINIMUM OF 6 INCHES EXCEPT AS NOTED OTHERWISE.
- LOCATE ALL RACEWAYS TO AVOID INTERFERENCE WITH DUCTS, PIPES, MECHANICAL EQUIPMENT, WITH THE REMOVAL OF CEILING TILE, OR WITH ACCESS TO EQUIPMENT THAT REQUIRES PERIODIC ADJUSTMENT OR MAINTENANCE.
- DO NOT SUPPORT RACEWAYS OR EQUIPMENT FROM PIPES, DUCTS, OR A CEILING SUSPENSION SYSTEM.
- EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH SPECIFICATIONS AND AS REQUIRED BY THE NATIONAL ELECTRIC CODE.
- ALL WORK SHALL COMPLY WITH NFPA 70.
- ELECTRICAL BRANCH CIRCUITS SHALL NOT SHARE A COMMON NEUTRAL.
- SIZE ALL FUSES FOR FUSED SAFETY SWITCHES WITH EQUIPMENT MANUFACTURER.

LIGHTING FIXTURE SCHEDULE

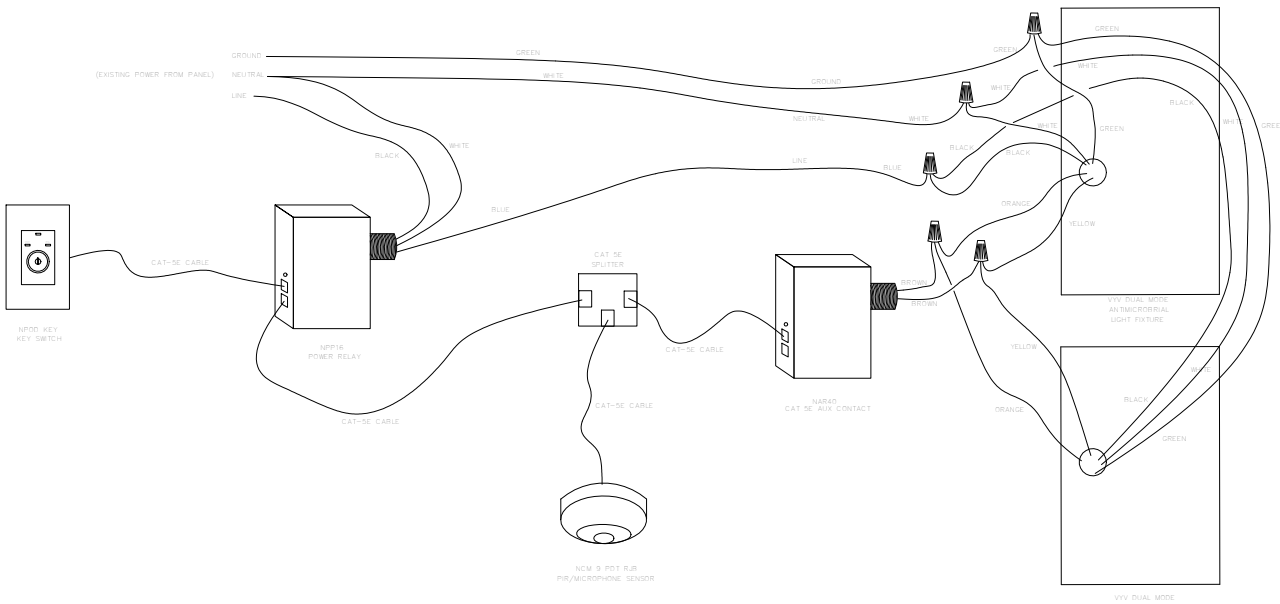
MARK	MANUFACTURER	CATALOG NUMBER	LOAD WATTS	Voltage	Description
F1	VYV	VSDLA 02 N 40 FP1 LP1 120 WL	120W	120	RECESSED 6" ROUND DOWN LIGHT, SWITCHED ANTI & LIGHT OR STRONG ANTIMICROBIAL (DUAL MODE)
F2	VYV	VSRW 24 80 40 04 UNV N	80W	120	2'X4' RECESSED TROFFER, WET LOCATION (DUAL MODE)
F3	VYV	VSRW 22 80 40 04 UNV N	80W	120	2'X2' RECESSED TROFFER, WET LOCATION (DUAL MODE)
F4	VYV	VSB 48 80 40 06 UNV N	129W	120	4'X8.5" SURFACE OR PENDANT MOUNT (DUAL MODE)

GENERAL NOTES PERTAINING TO ALL FIXTURES:

- VERIFY CEILING CONSTRUCTION TYPE WITH ARCHITECTURAL DRAWINGS TO DETERMINE WHETHER RECESSED LIGHTING FIXTURES SHALL BE FLANGE OR GRID TYPE MOUNTING.
- VERIFY VOLTAGE TO OPERATE FIXTURES WITH ELECTRICAL DRAWINGS.
- LIGHTING FIXTURES SHALL COME COMPLETE WITH NECESSARY MOUNTING HARDWARE.



MANUAL LIGHTING CONTROLS



OPTIONAL PROGRAMMABLE LIGHTING CONTROLS

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PHASE No.
CONTRACT No.
PROJECT No.
060-10226

LEGEND AND FIXTURE SCHEDULE CALHOUN-GILMER CTC RESTROOM RENOVATIONS GRANTSVILLE, WV JUNE 24, 2021 CONSTRUCTION DOCUMENTS
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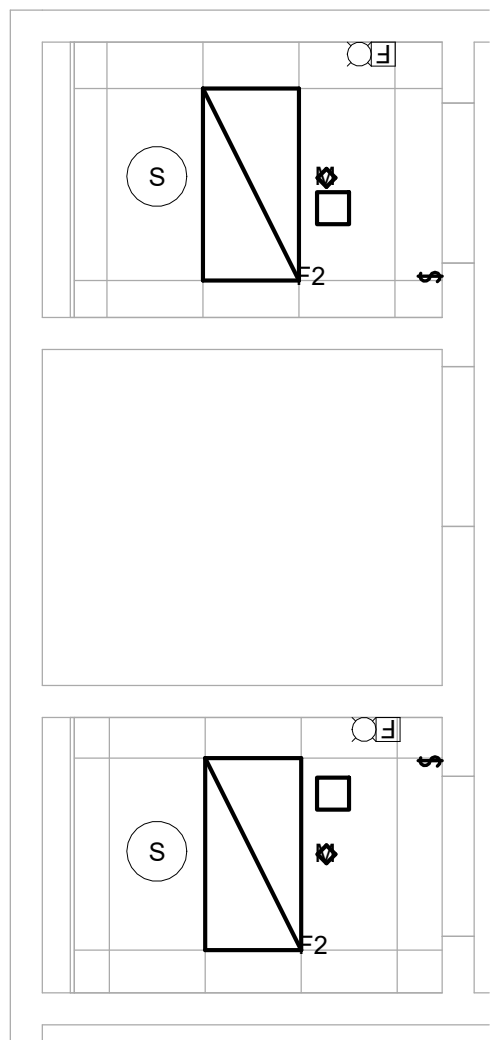
SHEET No.

E1.01

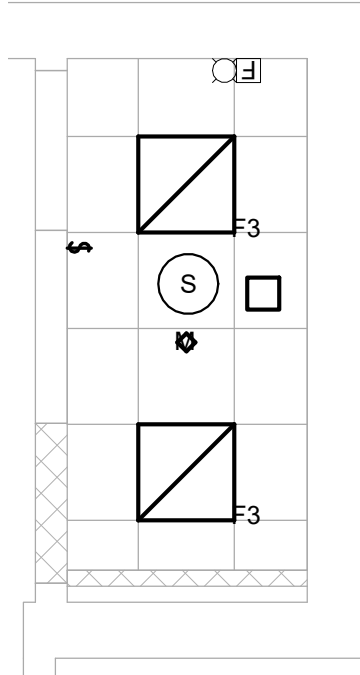
LIGHTING & SYSTEMS KEYNOTES	
NOTE #	DESCRIPTION
1	COORDINATE EXACT LIGHT FIXTURE LOCATION WITH SENSOR.

GENERAL NOTES:

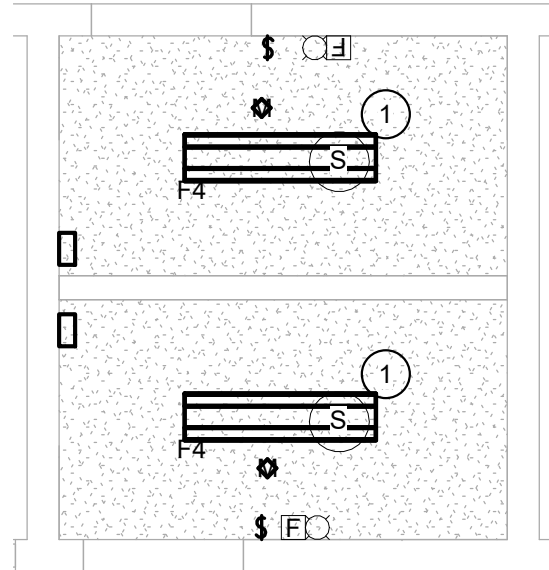
1. MATCH CONDUIT AND WIRING TO EXISTING.
2. USE EXISTING CIRCUITS AND SWITCHES.



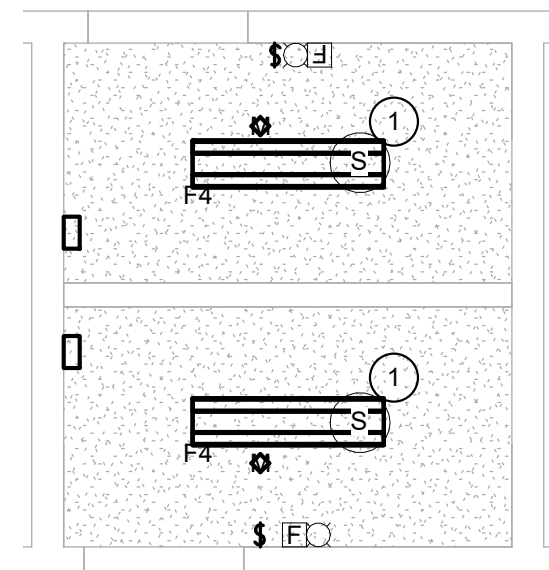
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E2.01 1/4" = 1'-0"



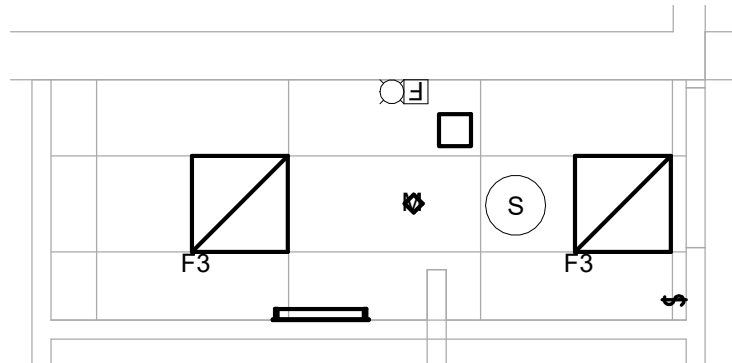
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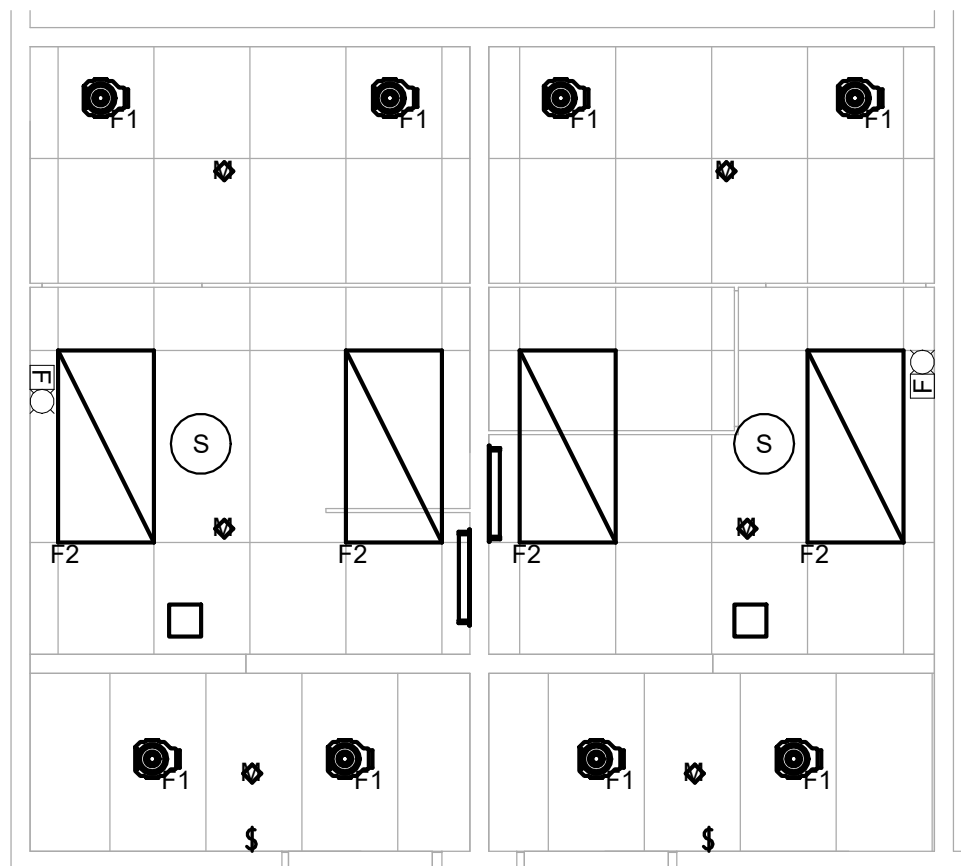
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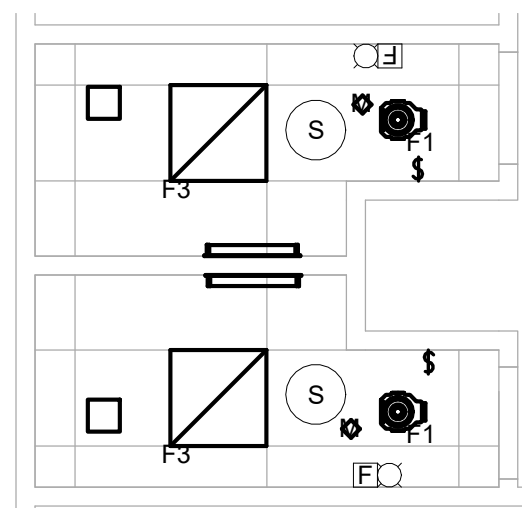
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E2.01 1/4" = 1'-0"



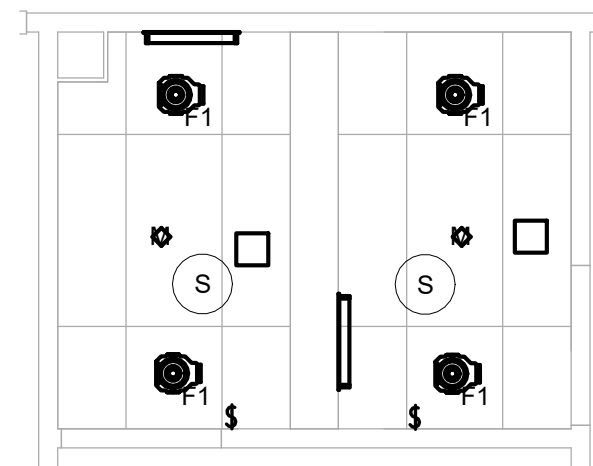
5 RESTROOM 141 - NEW
E2.01 1/4" = 1'-0"



6 RESTROOMS 119 & 120 - NEW
E2.01 1/4" = 1'-0"



7 RESTROOMS 107 & 108 - NEW
E2.01 1/4" = 1'-0"



8 RESTROOMS 151 & 152 - NEW
E2.01 1/4" = 1'-0"

LAYOUT TAB: NEW LIGHTING & SYSTEMS PLAN

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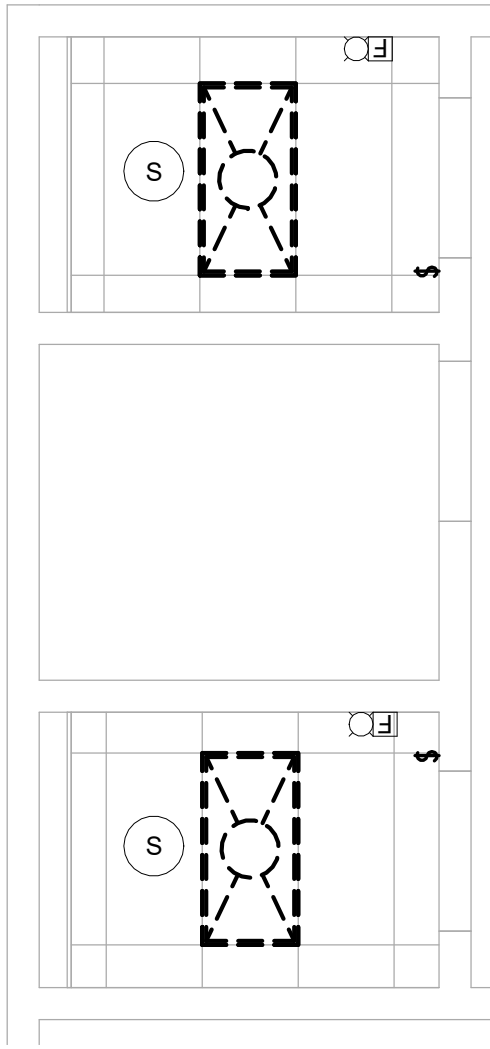
NEW LIGHTING & SYSTEMS PLAN
CALHOUN-GILMER CTC RESTROOM RENOVATIONS
GRANTSVILLE, WV
JUNE 24, 2021
CONSTRUCTION DOCUMENTS

SHEET No.
E2.01

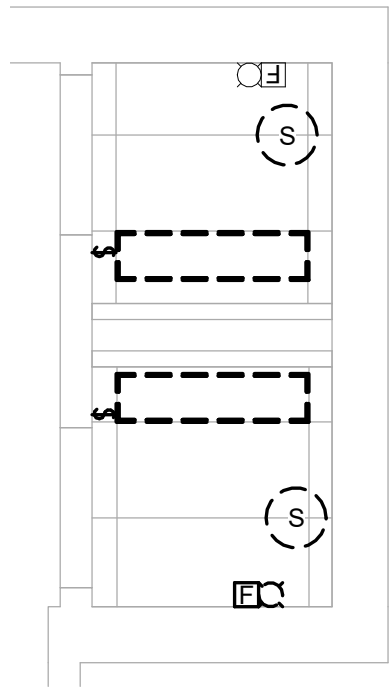
LIGHTING & SYSTEMS DEMOLITION KEYNOTES

NOTE #	DESCRIPTION
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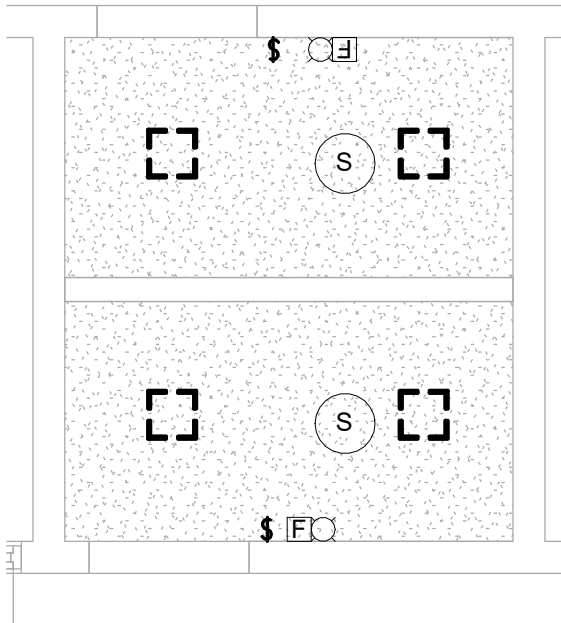
1	SMOKE DETECTOR TO BE RELOCATED. FOR NEW LOCATION SEE #6 ON SHEET E2.01.
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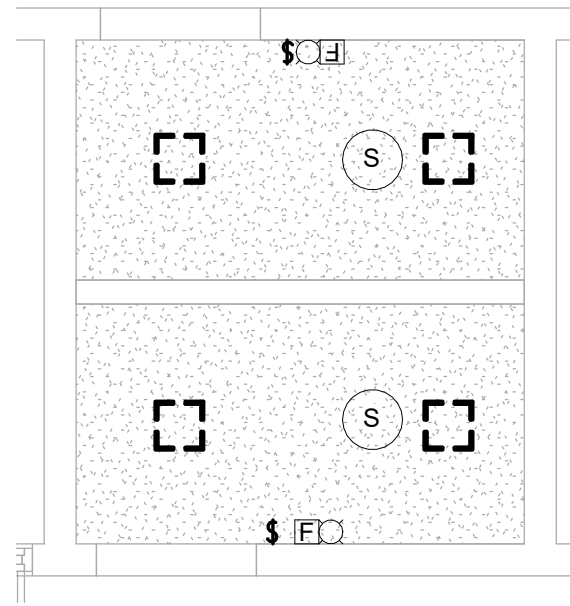
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ED2.01 1/4" = 1'-0"



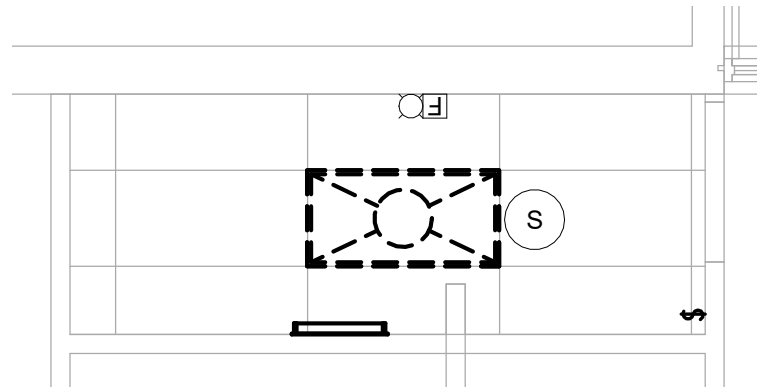
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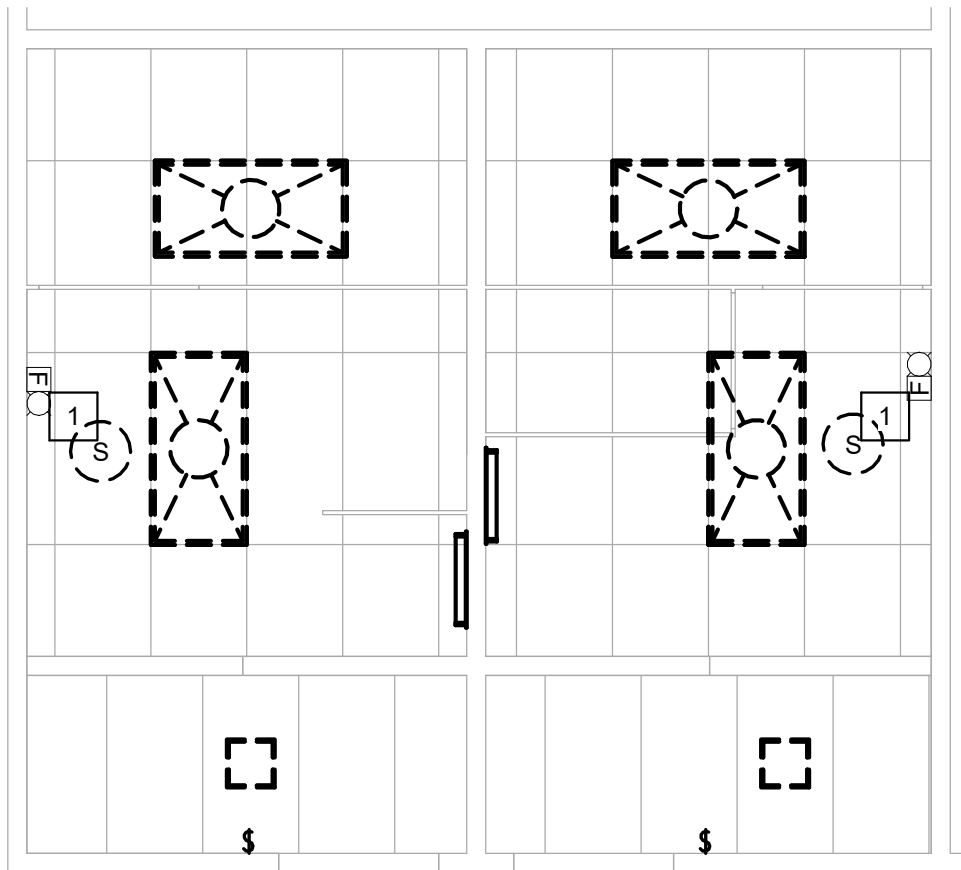
3 RESTROOMS 123 & 124
ED2.01 1/4" = 1'-0"



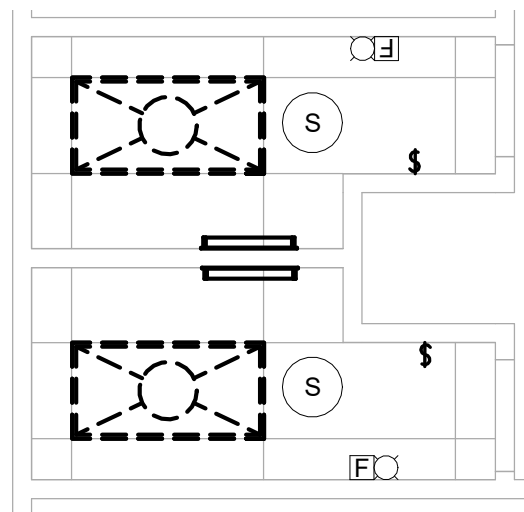
4 RESTROOMS 133 & 134
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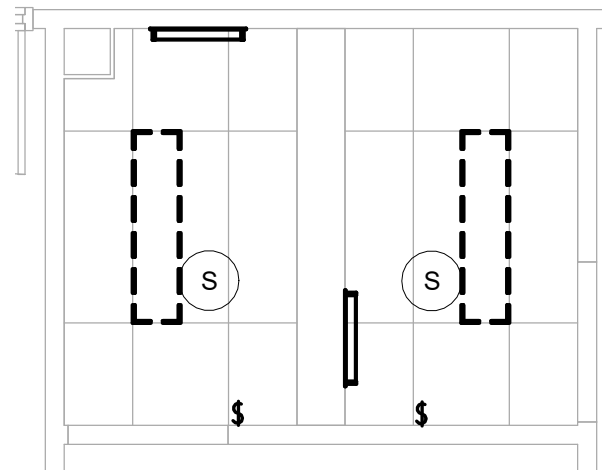
5 RESTROOM 141
ED2.01 1/4" = 1'-0"



6 RESTROOMS 119 & 120
ED2.01 1/4" = 1'-0"



7 RESTROOMS 107 & 108
ED2.01 1/4" = 1'-0"



8 RESTROOMS 151 & 152
ED2.01 1/4" = 1'-0"

Author

USER:

PLOT DATE/TIME: 8/9/2021 11:22:00 AM

LAYOUT TAB: DEMOLITION LIGHTING & SYSTEMS PLAN
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DEMOLITION LIGHTING & SYSTEMS PLAN
CALHOUN-GILMER CTC RESTROOM RENOVATIONS
GRANTSVILLE, WV
JUNE 24, 2021
CONSTRUCTION DOCUMENTS

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