

PLUMBING GENERAL NOTES

- SCOPE OF WORK: THESE DRAWINGS AND ACCOMPANYING SPECIFICATIONS DESCRIBE SCOPE OF WORK REQUIRED FOR PLUMBING SYSTEMS. LABOR AND MATERIAL SHALL BE PROVIDED AS REQUIRED FOR A COMPLETE, WORKMANLIKE INSTALLATION OF ALL SYSTEMS SHOWN ON DIAGRAMMATIC DRAWINGS AND/OR AS SPECIFIED HEREIN.
- CONTRACTOR: THE WORD "CONTRACTOR", "PLUMBING CONTRACTOR", AND "P.C." AS USED HEREIN SHALL MEAN THE PLUMBING INSTALLER UNLESS OTHERWISE QUALIFIED.
- DRAWINGS: DRAWINGS ARE DIAGRAMMATIC AND MAY NOT COMPLETELY DESCRIBE EVERY DETAIL OF THE INSTALLATION. HOWEVER, CONTRACTOR IS RESPONSIBLE FOR FURNISHING COMPLETE SYSTEMS INCLUDING ALL REQUIRED EQUIPMENT AND ACCESSORIES TO OBTAIN FULLY FUNCTIONING PLUMBING SYSTEMS.
- CODE COMPLIANCE: COMPLY WITH THE LATEST EDITIONS OF THE FOLLOWING STANDARDS AND CODES, INsofar AS THEY APPLY:
NORTH CAROLINA STATE BUILDING CODE (CODE), LATEST EDITION AND REVISIONS.
LOCAL JURISDICTION REQUIREMENTS.
- PERMITS AND INSPECTIONS: OBTAIN ALL PERMITS, LICENSES, INSPECTIONS, ETC., REQUIRED FOR THE WORK AND PAY FOR SAME. FURNISH A FINAL CERTIFICATE OF INSPECTION AND APPROVAL FROM THE AUTHORITY HAVING JURISDICTION PRIOR TO ACCEPTANCE OF THE WORK.
- SUPERVISION: PROVIDE SKILLED SUPERINTENDENTS TO SUPERVISE THE WORK FROM THE BEGINNING TO COMPLETION AND FINAL INSPECTION.
- PROGRESS OF WORK: PERFORM WORK IN ACCORDANCE WITH SCHEDULE AND REQUIREMENTS OF THE GENERAL CONTRACTOR. UNDER NO CIRCUMSTANCES SHALL THIS CONTRACTOR DELAY THE OVERALL PROJECT SCHEDULE.
- COORDINATION: COORDINATE PLUMBING WORK WITH THE WORK OF OTHER TRADES. LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE UNLESS SPECIFICALLY DIMENSIONED. ARRANGE PLUMBING SO AS NOT TO INTERFERE WITH THE WORK OF OTHER TRADES. VERIFY ACTUAL BUILDING STRUCTURE PRIOR TO DUCT FABRICATION AND ADJUST LAYOUT AS REQUIRED. INCLUDE ALL OFFSETS IN DUCTS, FITTINGS, PIPING, ETC. AS REQUIRED TO PROPERLY INSTALL EQUIPMENT.
- EQUIPMENT LOCATIONS: DETERMINE EXACT EQUIPMENT AND MATERIALS LOCATIONS TO PROVIDE BEST ARRANGEMENT AND TO FACILITATE PROPER MAINTENANCE AND SERVICING OF EQUIPMENT.
- LISTING AND LABELING: ALL EQUIPMENT SHALL BE LABELED OR LISTED BY UL OR OTHER APPROVED TESTING AGENCY WHERE REQUIRED.
- STORAGE SPACE: CONSULT WITH THE GENERAL CONTRACTOR REGARDING JOB SITE STORAGE FOR PLUMBING MATERIALS TO BE INSTALLED UNDER THIS PROJECT. STORAGE SPACE MUST BE SECURED AND CONTRACTOR'S REPRESENTATIVE MUST BE ON JOB BEFORE ANY MATERIAL MAY BE RECEIVED.
- CLEANUP: REMOVE ALL DEBRIS GENERATED IN THE ACCOMPLISHMENT OF WORK UNDER THIS PROJECT. CLEAN, REPLACE OR REPAIR ALL SURFACES SOILED OR DAMAGED DURING THE COURSE OF THE WORK. REMOVE DEBRIS DAILY SO TO MAINTAIN SAFE WORKING CONDITIONS.
- RECORD DRAWINGS: MAINTAIN ONE SET OF "RED-LINED" RECORD DRAWINGS ON SITE AT ALL TIMES AND PROVIDE DRAWINGS TO ARCHITECT/ENGINEER PRIOR TO FINAL INSPECTION.
- EXISTING BUILDINGS AND CONSTRUCTION:
 - WORK UNDER THIS CONTRACT IS TO BE PERFORMED IN AN EXISTING BUILDING. BUILDING LAYOUT INDICATED IS DEVELOPED FROM EXISTING RECORD DOCUMENTS AND LIMITED FIELD VERIFICATION FOR THE PURPOSES OF DESCRIBING THE WORK. VERIFY ALL EXISTING CONDITIONS AND ADJUST WORK AS REQUIRED TO SUIT ACTUAL FIELD CONDITIONS.
 - PERFORM ALL WORK IN ACCORDANCE WITH SAFETY REGULATIONS.
 - DO NOT CUT ANY STRUCTURAL MEMBERS WITHOUT EXPRESS WRITTEN INSTRUCTIONS FROM (ARCHITECT)/ENGINEER. PROVIDE CUTTING AND PATCHING FOR EXISTING FINISHES AS REQUIRED.
 - COORDINATE INSTALLATION OF NEW PLUMBING SYSTEMS WITH EXISTING BUILDING SYSTEMS. ADJUST ARRANGEMENTS AS REQUIRED TO ACCOMMODATE INTERFERENCES.

PLUMBING ABBREVIATIONS

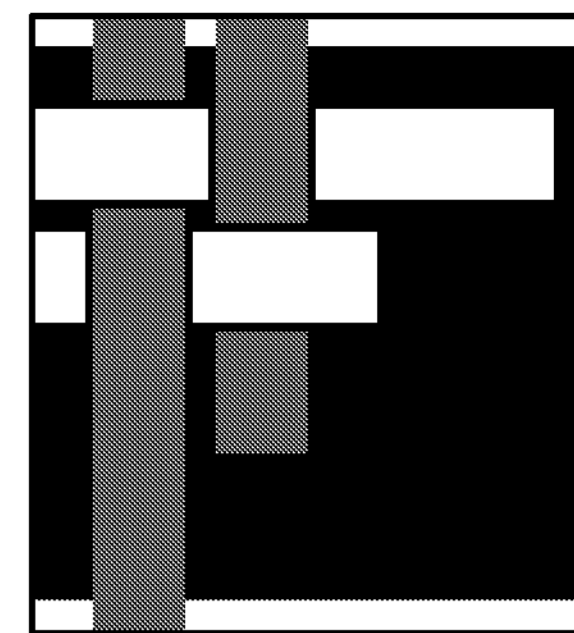
(X)	EXISTING
AAV	AIR ADMITTANCE VALVE
A.F.F.	ABOVE FINISHED FLOOR
A.R.C.I.	ACID RESISTANT CAST IRON
ADA	AMERICANS WITH DISABILITIES ACT
BRZ	BRONZE
BT	BATH TUB
C.I.	CAST IRON
CO	CLEANOUT
CONC.	CONCRETE
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DIA.	DIAMETER
E.C.I.	ENAMELED CAST IRON
EC	ELECTRICAL CONTRACTOR
EW	ELECTRIC WATER COOLER
EWV	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
GA.	GAUGE
GAL.	GALLON
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GWV	GAS-FIRED WATER HEATER
HB	HOSE BIBB
INCL.	INCLUDED
KS	KITCHEN SINK
LAV	LAVATORY
LP	LIQUID PROPANE
MS	MOP SERVICE BASIN
NAT.	NATURAL GAS
NKL.	NICKEL
NON SIMULT.	NON SIMULTANEOUS
O.F.L.C.	OPEN FRONT LESS COVER
OB	OUTLET BOX
OC	ON CENTER
ORDL	OVERFLOW ROOF DRAIN LEADER
PC	PLUMBING CONTRACTOR
PRESS. BAL.	PRESSURE BALANCED
RCVY.	RECOVERY
RDL	ROOF DRAIN LEADER
SA	WATER HAMMER ARRESTOR
SH	SHOWER
SK	SINK
SLD.	SLIDE
SS	STAINLESS STEEL
TDH	TOTAL DYNAMIC HEAD
UR	URINAL
V	VENT
VB	VACUUM BREAKER
VC	VITREOUS CHINA
VR	VANDAL RESISTANT
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT

NOTE: ALL ABBREVIATIONS MAY NOT BE USED IN PROJECT.

PLUMBING LEGEND

	COMPRESSED AIR PIPING
	CONDENSATE PIPING
	DOMESTIC 140°F WATER PIPING
	DOMESTIC 140°F RETURN WATER PIPING
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER CIRCULATION PIPING
	DOMESTIC HOT WATER PIPING
	FILTERED WATER PIPING
	FIRE SPRINKLER PIPING
	FORCE MAIN PIPING
	GAS PIPING (NAT. OR LP)
	GREASE WASTE PIPING
	NITROUS OXIDE PIPING
	O2 (OXYGEN) PIPING
	OVERFLOW ROOF DRAIN PIPING
	ROOF DRAIN PIPING
	SANITARY VENT PIPING
	SANITARY WASTE PIPING
	TEPID WATER PIPING
	VACUUM PIPING
	BACKFLOW PREVENTION DEVICE
	BALL VALVE
	CHECK VALVE
	CIRCUIT SETTER (BALANCING VALVE)
	CIRCULATION PUMP
	CONTROL VALVE
	EXTENT OF DEMOLITION
	FLOOR CLEANOUT
	FLOOR DRAIN
	FLOOR SINK
	GAS-REGULATOR VALVE
	GATE VALVE
	GATE VALVE IN RISER
	GRADE CLEANOUT
	HOSE BIBB
	PIPE CAP
	PIPE ELBOW
	PIPE ELBOW DOWN
	PIPE ELBOW UP
	PIPE TEE
	PIPE TEE DOWN
	PIPE TEE UP
	SUMP PUMP
	DEMOLITION KEYED NOTE TAG
	NEW WORK KEYED NOTE
	POINT OF CONNECTION - NEW TO EXISTING
	PRESSURE REDUCING VALVE
	SOLENOID VALVE
	THERMOSTATIC MIXING VALVE
	WALL CLEANOUT
	WALL HYDRANT
	WASHING MACHINE BOX
	WATER HAMMER ARRESTOR

NOTE: ALL ITEMS LISTED IN THIS SCHEDULE MAY NOT BE USED IN PROJECT



**S A W Y E R
S H E R W O O D
& A S S O C I A T E
A R C H I T E C T U R E**

124 Market Street
Wilmington, NC 28401
910 762-0892
S2a3.com



2246 Yaupon Dr. Wilmington, NC 28401
Tel: 910.791.4000
Fax: 910.791.5266
www.cbhfind.com



Leland Town Hall
Addition &
Renovations
102 Town Hall Drive
Leland, NC 28451

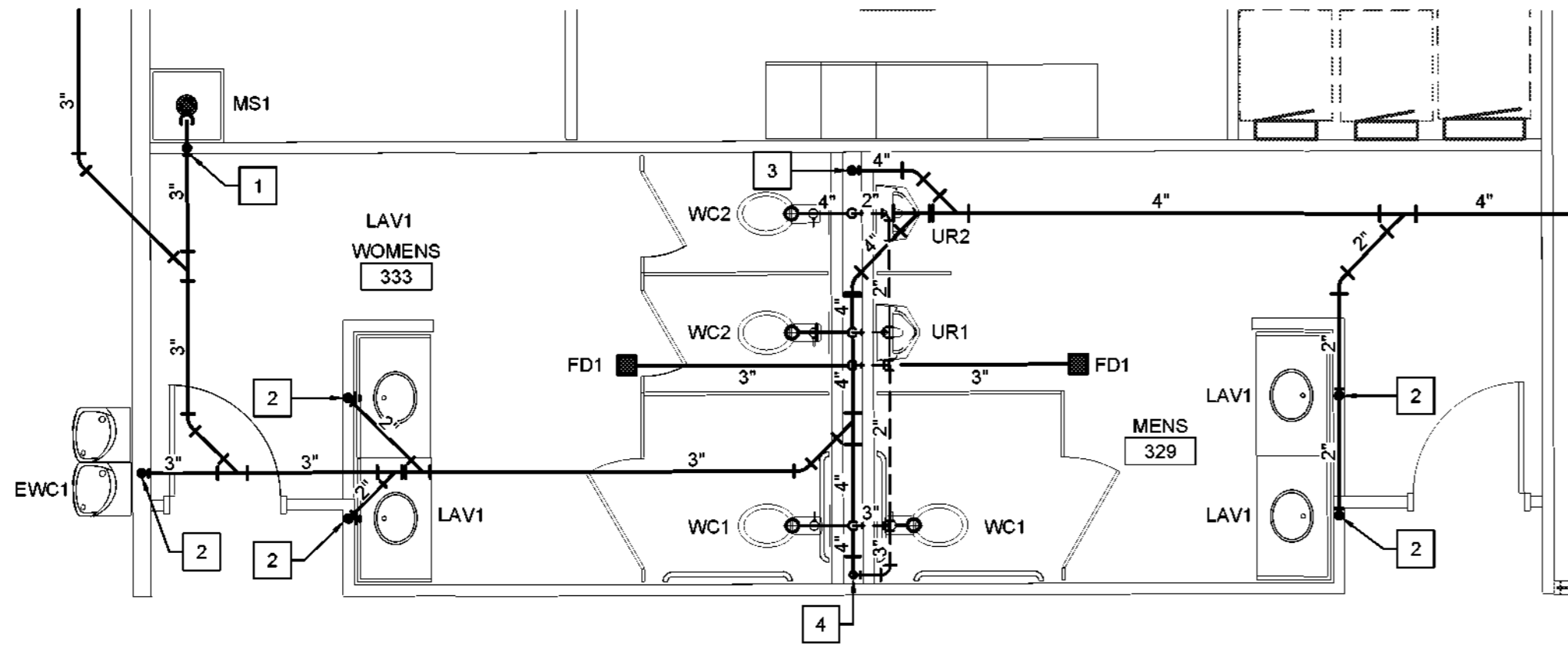
Construction Drawings

Issue Date: February 23, 2024

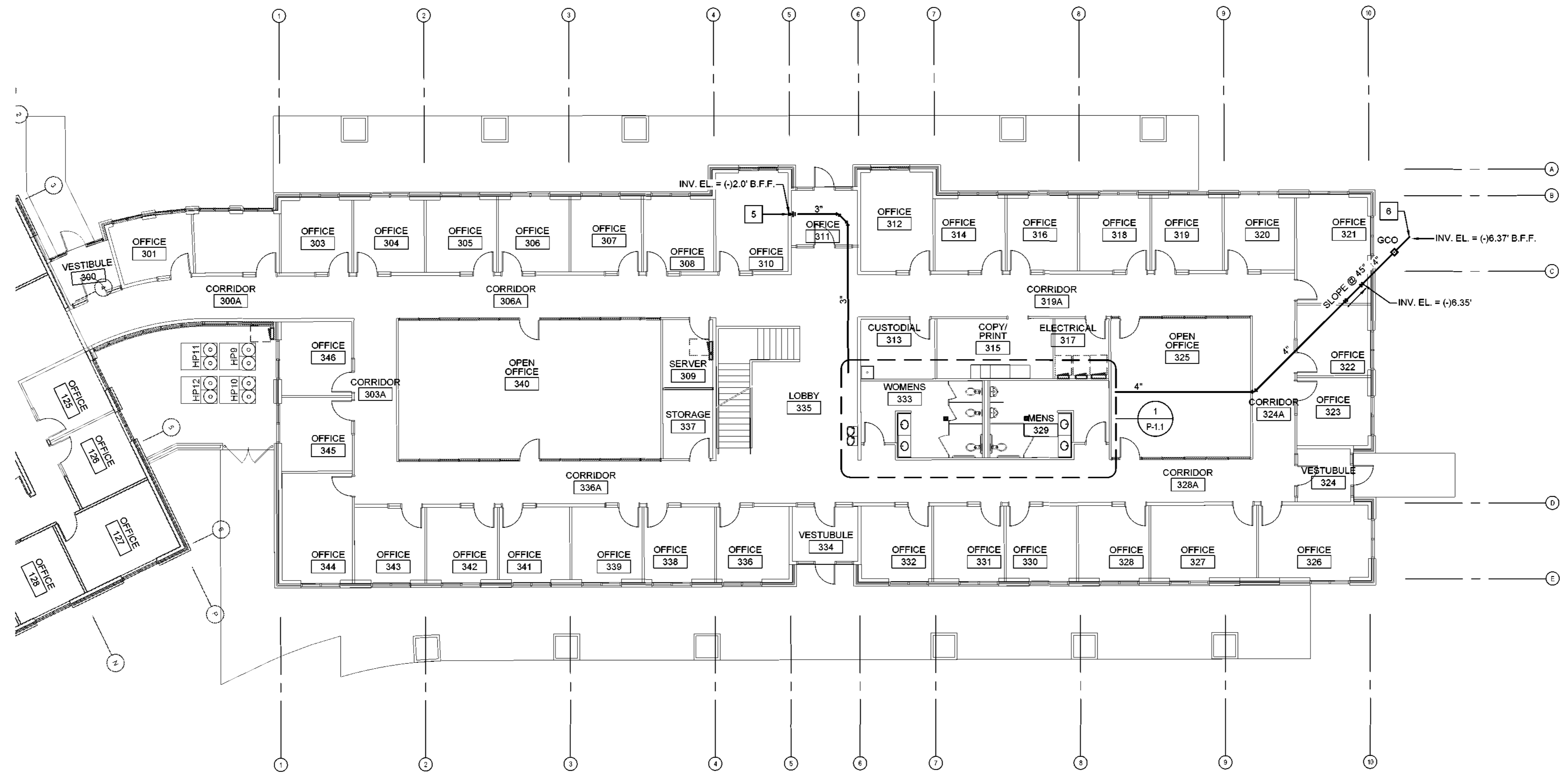
Rev.	Date	Notes

Plumbing, Legend
Specifications,
Abbreviations
P0.1

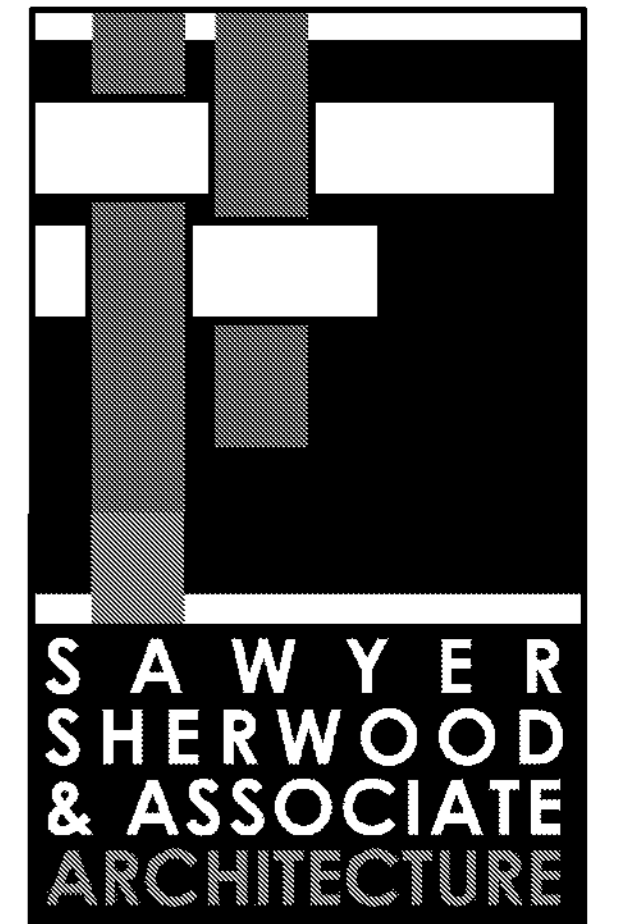
KEYED NOTES THIS SHEET	
1	3" WASTE VENT STACK; WCO
2	2" WASTE VENT STACK; WCO
3	4" WASTE STACK; WCO
4	3" VENT STACK
5	2" WASTE STACK; WCO
6	TO SANITARY SEWER.



1 FIRST FLOOR PLAN - WASTE-VENT
 3/32" = 1'-0"
 PLAN NORTH

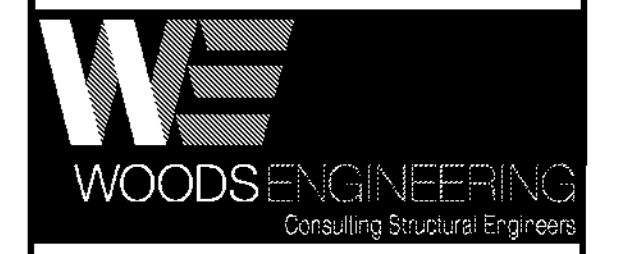


1 FIRST FLOOR PLAN - WASTE-VENT
 3/32" = 1'-0"
 PLAN NORTH



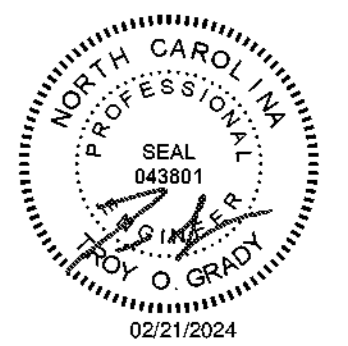
**SAWYER
SHERWOOD
& ASSOCIATE
ARCHITECTURE**

124 Market Street
 Wilmington, NC 28401
 910 762-0892
 S2a3.com



CBHF
 Engineers, PLLC

2246 Yaupon Dr, Wilmington, NC 28401
 Tel: 910.731.4000
 Fax: 910.791.5266
 www.cbhfindesigners.com
 © Copyright 2024 CBHF Engineers, PLLC NC4 P-6509



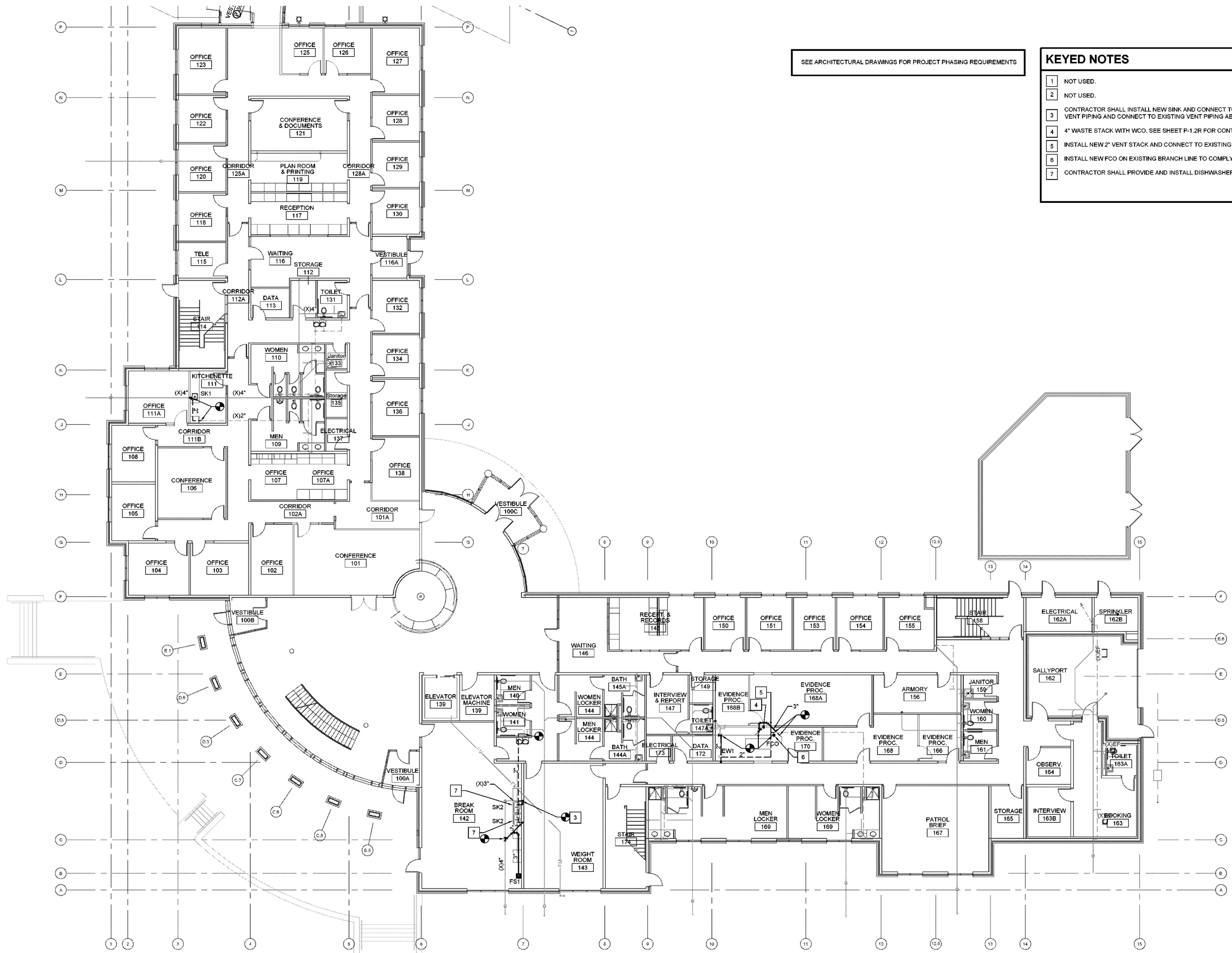
Leland Town Hall
 Addition &
 Renovations
 102 Town Hall Drive
 Leland, NC 28451

Construction Drawings

Issue Date: February 23, 2024

Rev.	Date	Notes

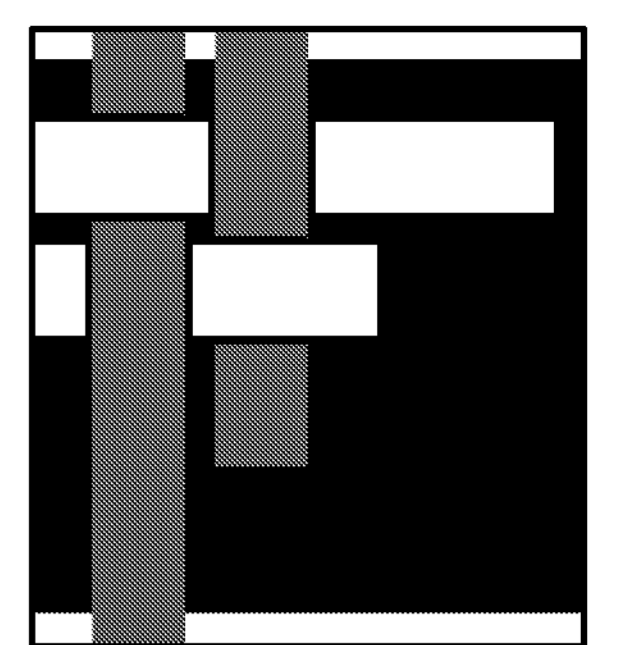
Plumbing First
 Floor Plan -
 Waste-Vent
P1.1



SEE ARCHITECTURAL DRAWINGS FOR PROJECT PHASING REQUIREMENTS


KEYED NOTES	
1	NOT USED.
2	NOT USED.
3	CONTRACTOR SHALL INSTALL NEW SINK AND CONNECT TO EXISTING ROUGH-IN. INSTALL NEW VENT PIPING AND CONNECT TO EXISTING VENT PIPING ABOVE CEILING.
4	4" WASTE STACK WITH WCO. SEE SHEET P-1.2R FOR CONTINUATION
5	INSTALL NEW 2" VENT STACK AND CONNECT TO EXISTING VENT PIPING ABOVE CEILING.
6	INSTALL NEW FCO ON EXISTING BRANCH LINE TO COMPLY WITH NCPG 704.5, DEAD ENDS.
7	CONTRACTOR SHALL PROVIDE AND INSTALL DISHWASHER CONNECTION KIT.

1 FIRST FLOOR PLAN - WASTE-VENT
 3/32" = 1'-0"
 0 5' 10' 20'
 PLAN NORTH




**SAWYER
SHERWOOD
& ASSOCIATE
ARCHITECTURE**


124 Market Street
Wilmington, NC 28401
910 762-0892
S2a3.com



mcgill Shopping Communities Together




WOODS ENGINEERING
Consulting Structural Engineers



CBHF
Engineers, PLLC

2246 Yaupon Dr. Wilmington, NC 28401
Tel: 910.731.4000
Fax: 910.791.5266
www.cbhfengineers.com
© Copyright 2024 CBHF Engineers, PLLC NCA P-0508



ROY O. GRADY
02/21/2024

**Leland Town Hall
Addition &
Renovations**

102 Town Hall Drive
Leland, NC 28451

Construction Drawings

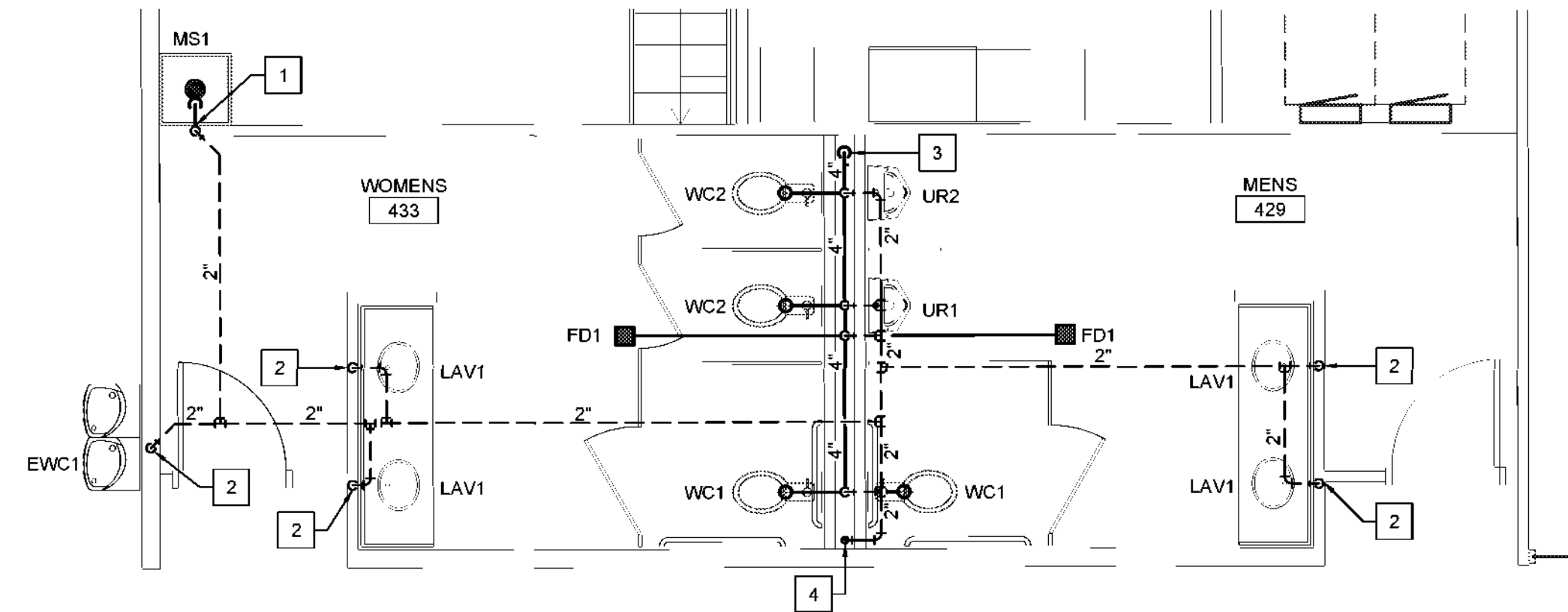
Issue Date: February 23, 2024

Rev.	Date	Notes

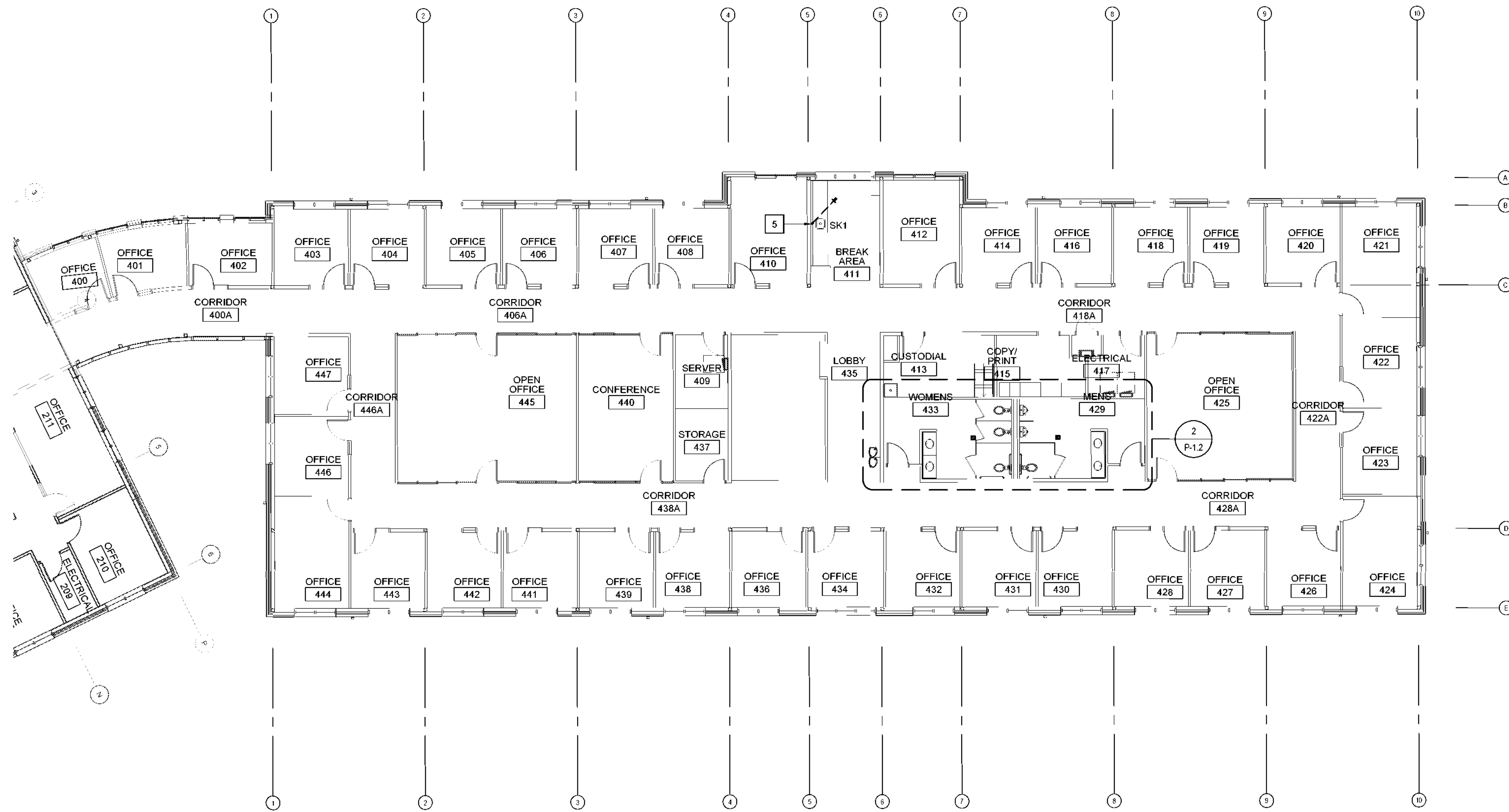
Plumbing First
Floor Plan -
Waste-Vent
P1.1R

© 2024 Sawyer Sherwood & Associate - All Rights Reserved

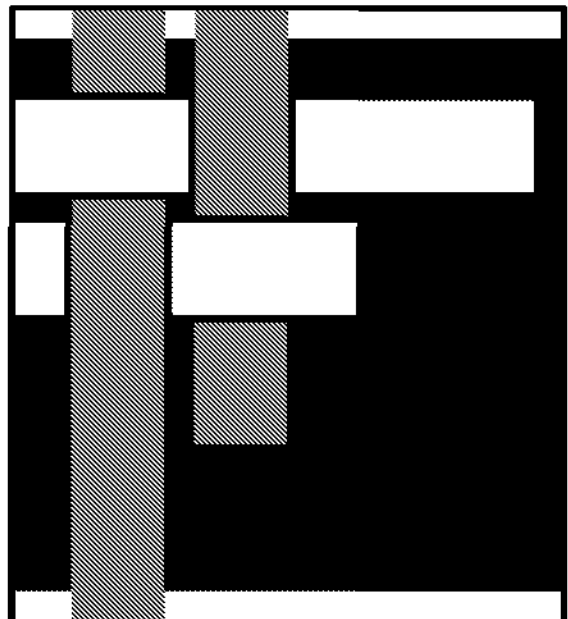
KEYED NOTES THIS SHEET	
1	3" WASTE VENT STACK; 2" VENT UP
2	2" WASTE VENT STACK; 2" VENT UP
3	4" WASTE STACK
4	3" VENT STACK; 3" VTR
5	2" WASTE VENT STACK; 2" VTR



2 ENLARGED SECOND FLOOR WASTE-VENT PLAN
 1/4" = 1'-0"
 PLAN NORTH

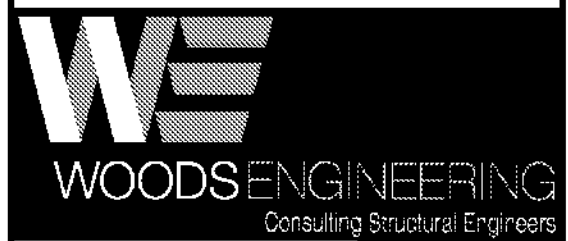


1 SECOND FLOOR PLAN - WASTE-VENT
 3/32" = 1'-0"
 PLAN NORTH



**SAWYER
SHERWOOD
& ASSOCIATE
ARCHITECTURE**

124 Market Street
 Wilmington, NC 28401
 910 762-0892
 S2a3.com



2246 Yaupon Dr. Wilmington, NC 28401
 Tel: 910.791.4000
 Fax: 910.791.5266
 www.cbhfindesign.com
 © Copyright 2024 CBHF Engineers, PLLC. NCE P-6506



Leland Town Hall
 Addition &
 Renovations
 102 Town Hall Drive
 Leland, NC 28451

Construction Drawings

Issue Date: February 23, 2024

Rev.	Date	Notes

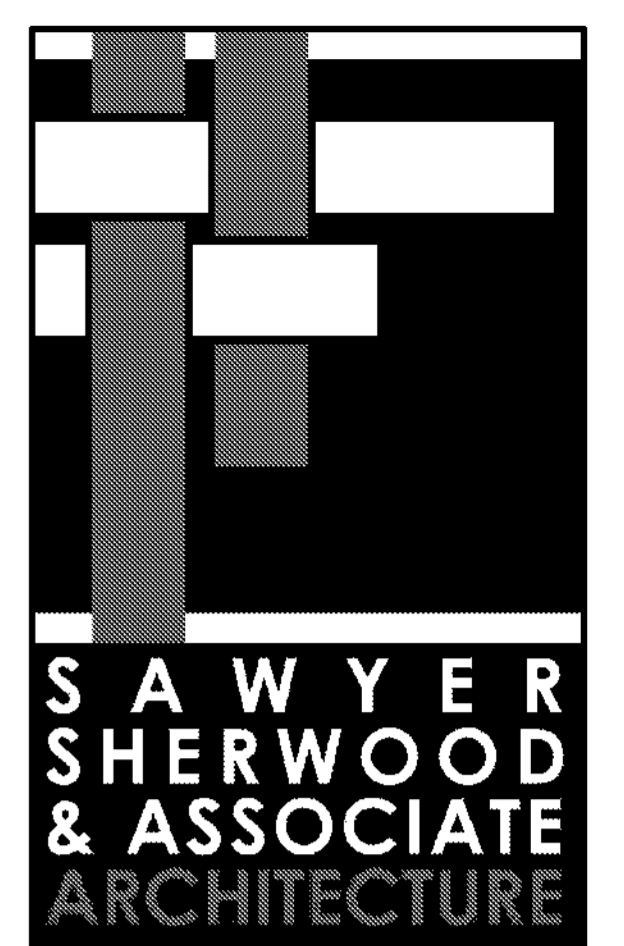
Second Floor
 Plan -
 Waste-Vent
P1.2

SEE ARCHITECTURAL DRAWINGS FOR PROJECT PHASING REQUIREMENTS

KEYED NOTES
1 4" WASTE STACK DOWN TO FIRST FLOOR. REFER TO DRAWING P-1.1R FOR CONTINUATION

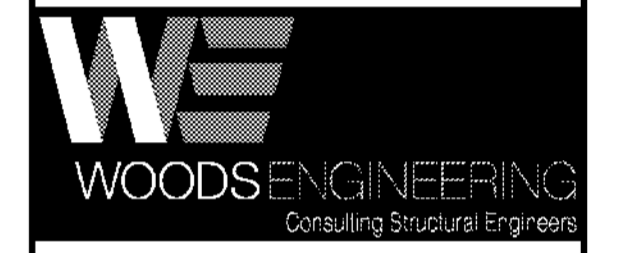


1 SECOND FLOOR PLAN - WASTE VENT
3/32" = 1'-0"  



**SAWYER
SHERWOOD
& ASSOCIATE
ARCHITECTURE**

124 Market Street
Wilmington, NC 28401
910 762-0892
S2a3.com



CBHF
Engineers, PLLC

2246 Yaupon Dr. Wilmington, NC 28401
Tel: 910.731.4000
Fax: 910.791.5266
www.cbhfeengineers.com
© Copyright 2024 CBHF Engineers, PLLC NCA P-0508



Leland Town Hall
Addition &
Renovations
102 Town Hall Drive
Leland, NC 28451

Construction Drawings

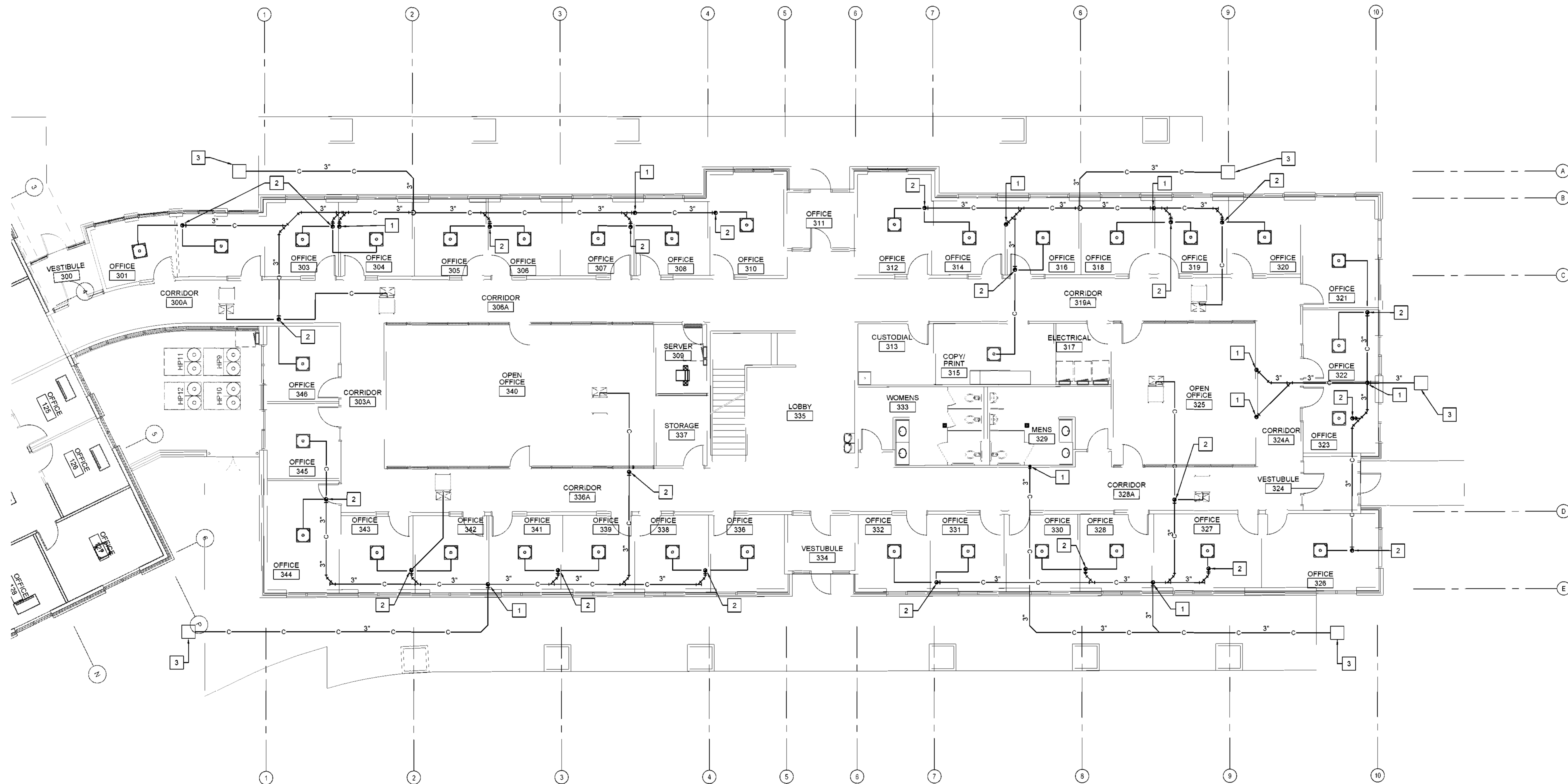
Issue Date: February 23, 2024

Rev.	Date	Notes

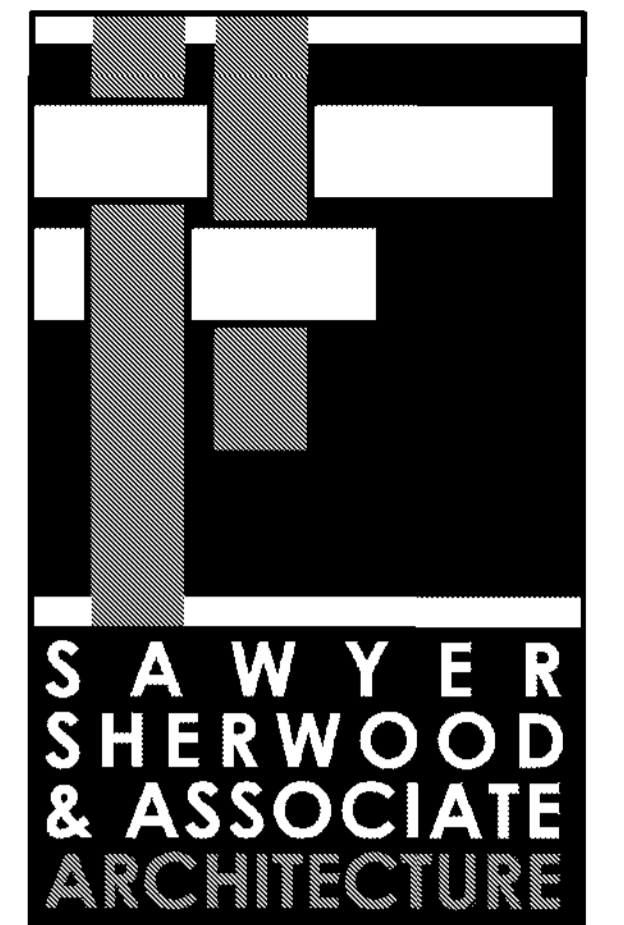
Second Floor
Plan -
Waste-Vent
P1.2R

© 2024 Sawyer Sherwood & Associate - All Rights Reserved

KEYED NOTES THIS SHEET	
1	3" CONDENSATE STACK FROM ABOVE
2	3" CONDENSATE HUB DRAIN
3	CONDENSATE FRENCH DRAIN INSTALLED IN GRASSY AREA. COORDINATE EXACT LOCATION WITH GENERAL CONTRACTOR. SEE DETAIL 7/P5.2
4	3" CONDENSATE FROM MECHANICAL MEZZANIZE

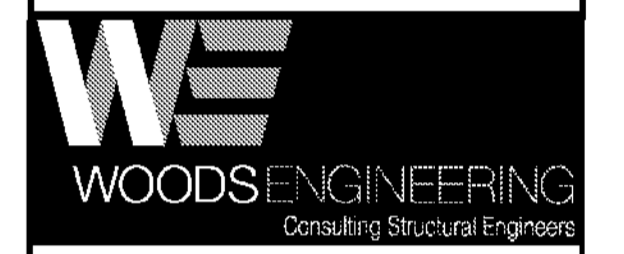


1 **FIRST FLOOR PLAN - CONDENSATE PIPING**
 1/8" = 1'-0"
 PLAN NORTH



**SAWYER
SHERWOOD
& ASSOCIATE
ARCHITECTURE**

124 Market Street
Wilmington, NC 28401
910 762-0892
S2a3.com



2246 Yaupon Dr. Wilmington, NC 28401
Tel: 910 721-3000 Fax: 910 791-5266
www.cbhfe.com
© Copyright 2024 CBHF Engineers, PLLC NC# P-6566



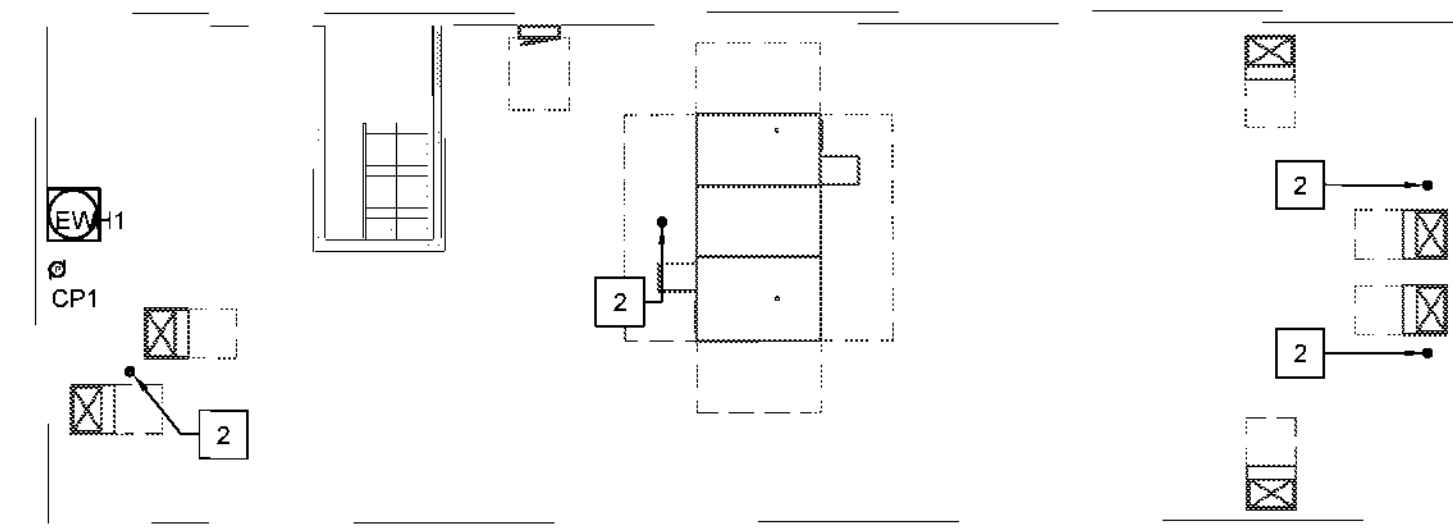
**Leland Town Hall
Addition &
Renovations**
102 Town Hall Drive
Leland, NC 28451

Construction Drawings

Issue Date: February 23, 2024

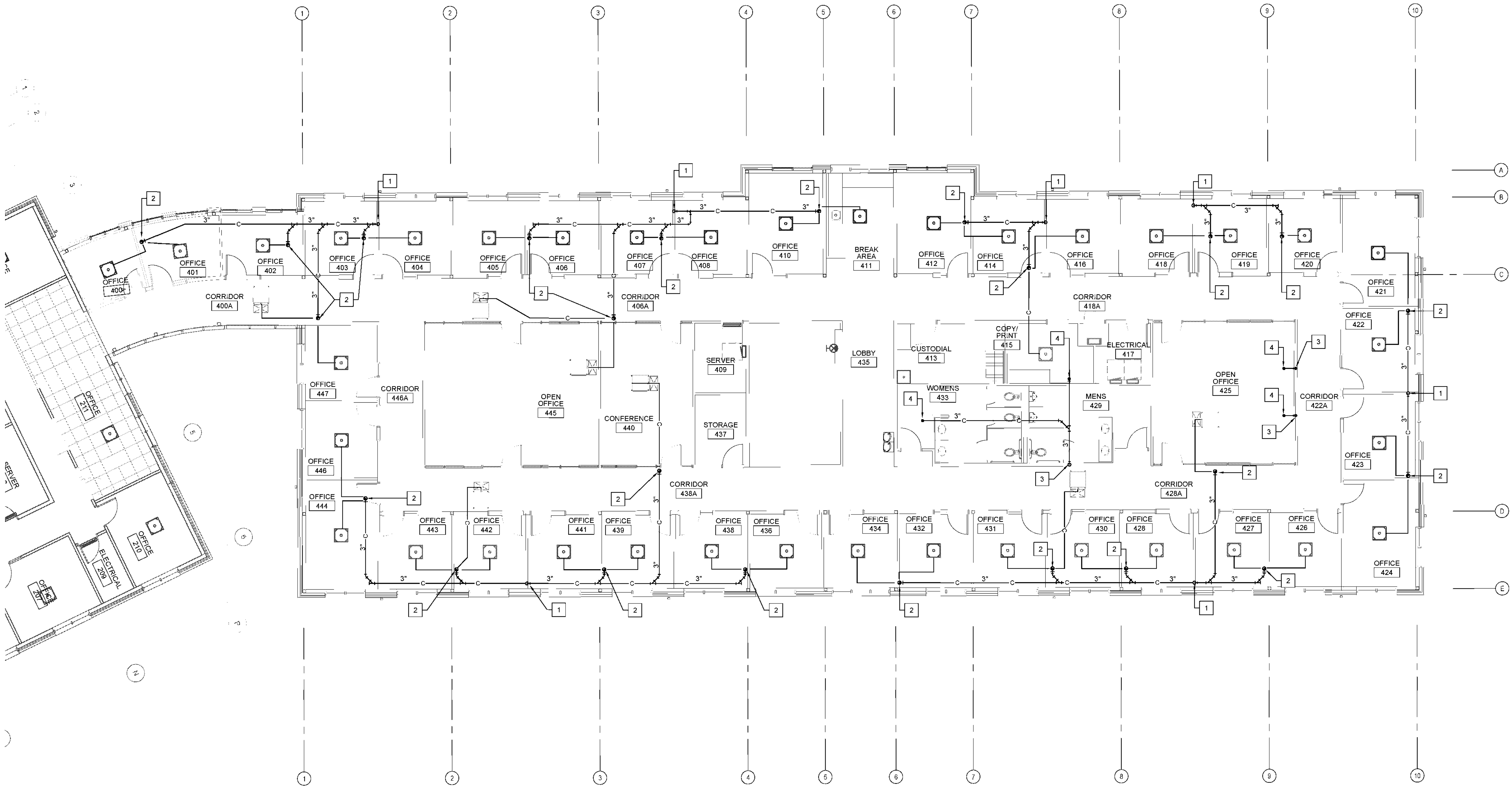
Rev.	Date	Notes

First Floor Plan -
Condensate
Piping
P1.3

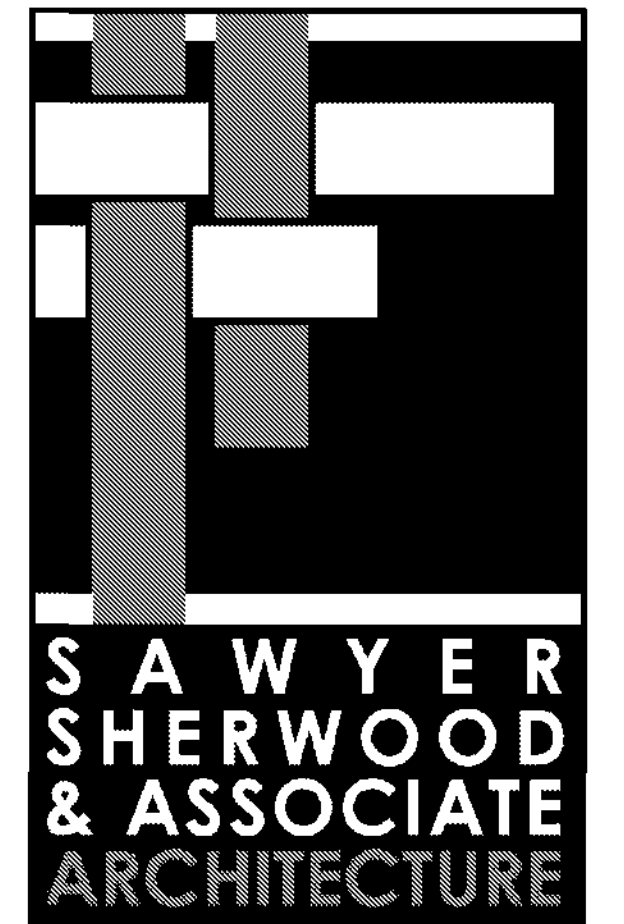


- KEYED NOTES THIS SHEET**
- 1 3" CONDENSATE STACK - DOWN
 - 2 3" CONDENSATE HUB DRAIN
 - 3 3" CONDENSATE PIPING DOWN TO BELOW GRADE. SEE DRAWING P-1.3 FOR CONTINUATION.
 - 4 3" CONDENSATE PIPING FROM HUB DRAIN ABOVE. ROUTE PIPING IN CEILING SPACE TILL TURNING DOWN IN WALL.

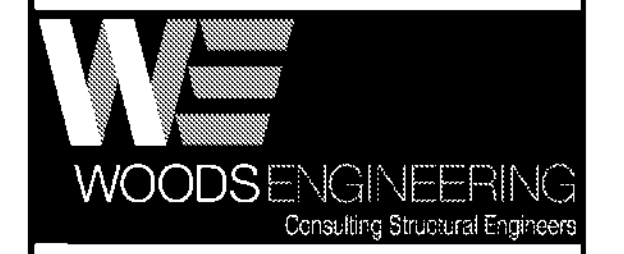
2 MEZZANINE PLAN - CONDENSATE PIPING
 1/8" = 1'-0"



1 SECOND FLOOR PLAN - CONDENSATE PIPING
 1/8" = 1'-0"



124 Market Street
 Wilmington, NC 28401
 910 762-0892
 S2a3.com



2246 Yaupon Dr. Wilmington, NC 28401
 Tel: 910 731 4000
 Fax: 910 731 5266
 www.cbhfindesign.com
 © Copyright 2024 CBHF Engineers, PLLC NCA P-6506



Leland Town Hall
 Addition &
 Renovations
 102 Town Hall Drive
 Leland, NC 28451

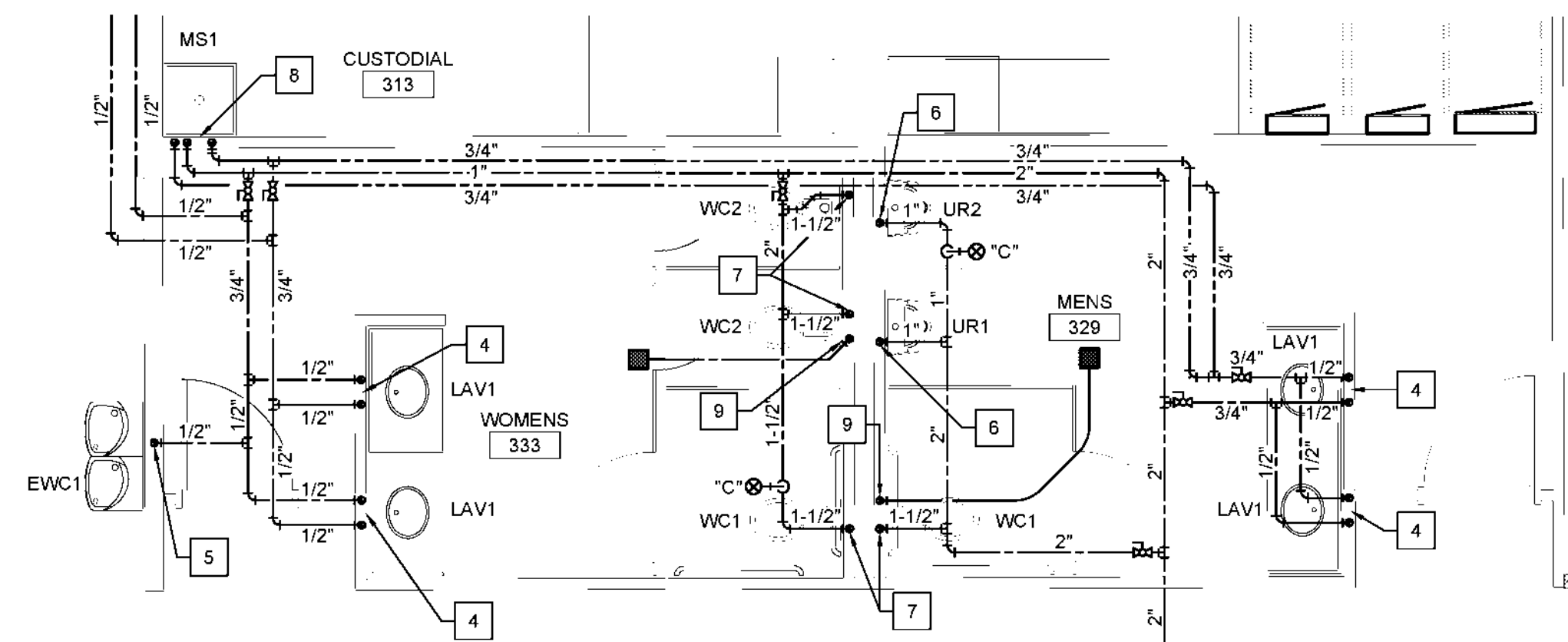
Construction Drawings

Issue Date: February 23, 2024

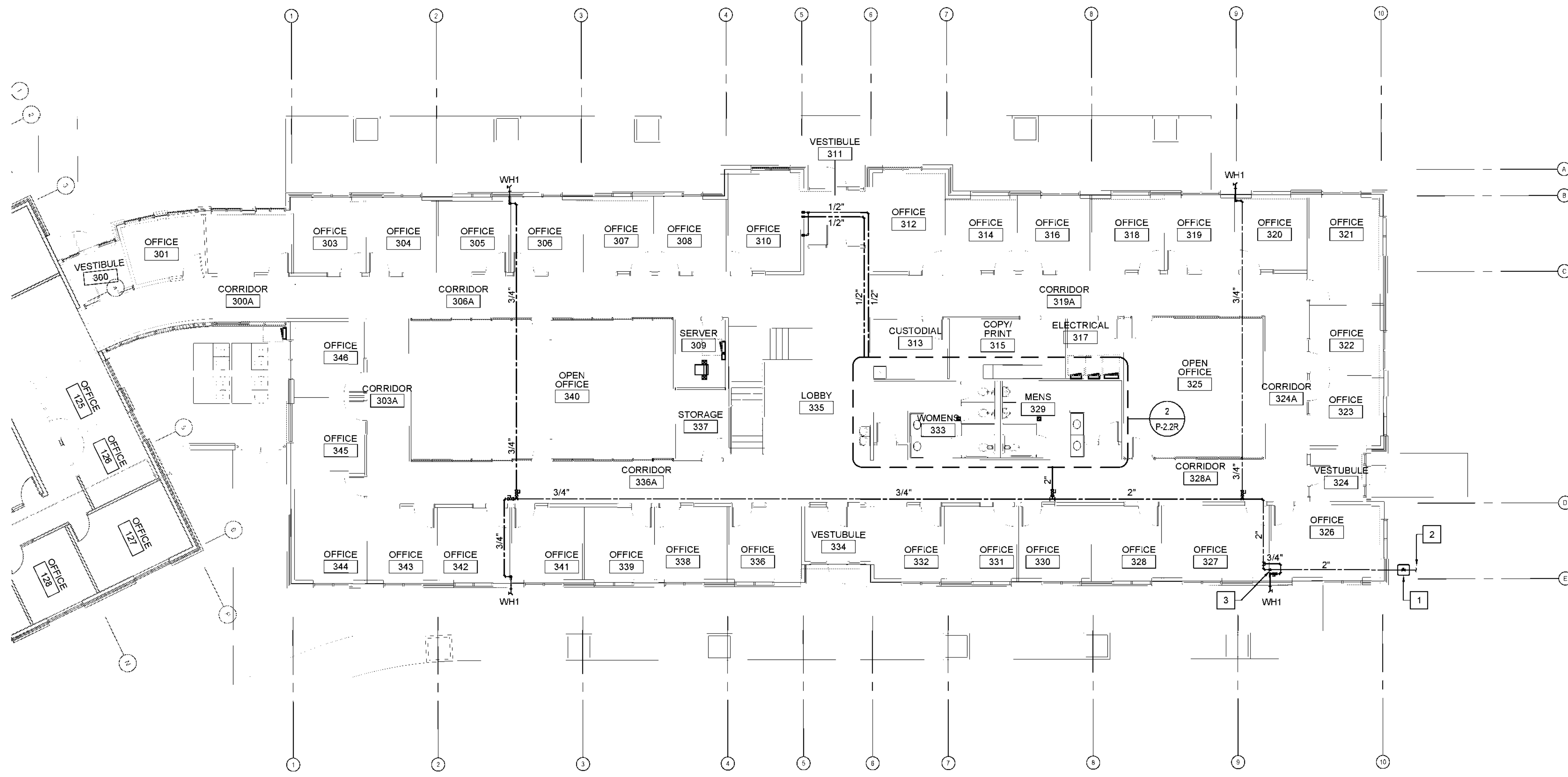
Rev.	Date	Notes

Second Floor
 Plan-Condensate
 Piping
P1.4

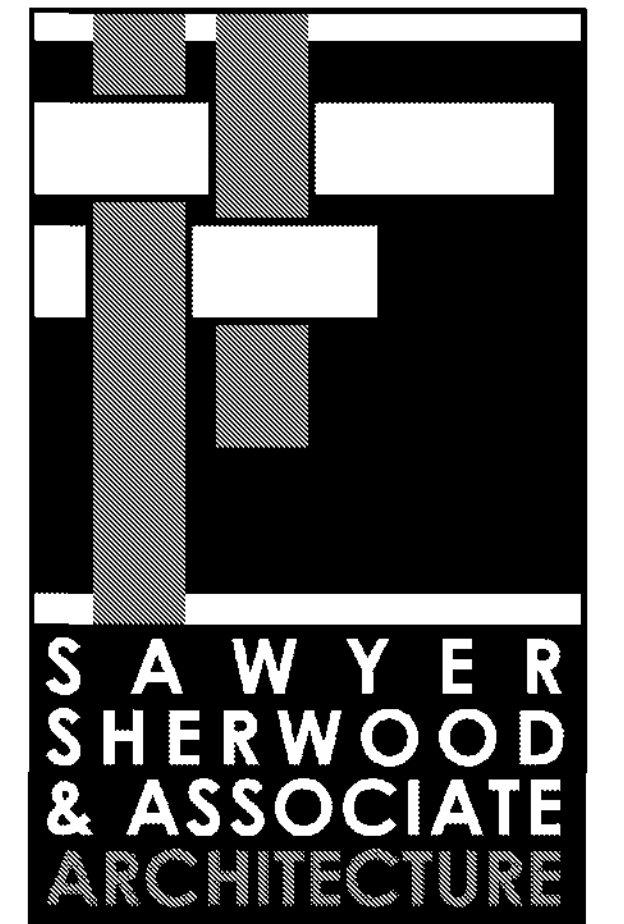
KEYED NOTES THIS SHEET	
1	FULL PORT SHUTOFF VALVE IN POLY VALVE BOX PER NC PLUMBING CODE 606.1
2	2" DOMESTIC WATER SERVICE. SEE SITE UTILITY PLAN FOR CONTINUATION.
3	RISE IN WALL TO ABOVE CEILING.
4	1/2" DCW AND DHW UP AND DOWN.
5	1/2" DCW UP AND DOWN.
6	3/4" DCW UP AND DOWN.
7	1" DCW UP AND DOWN.
8	3/4" DCW, DHW, DHWR UP, 1/2" DCW AND DHW DOWN TO MS1
9	PROVIDE AND INSTALL FLUSH TUBE TRAP PRIMER.



2 ENLARGED DOMESTIC WATER PLAN
 1/4" = 1'-0"
 0 2' 4' 8'

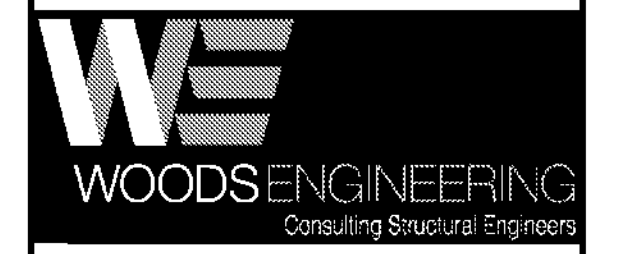


1 FIRST FLOOR PLAN - DOMESTIC WATER
 3/32" = 1'-0"
 0 5' 10' 20'



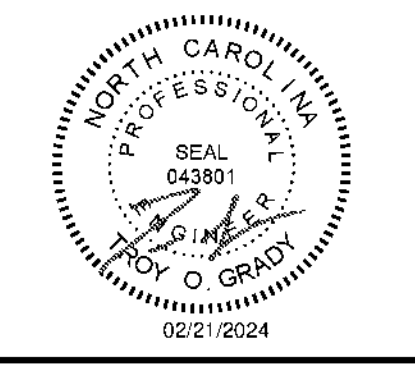
**SAWYER
SHERWOOD
& ASSOCIATE
ARCHITECTURE**

124 Market Street
 Wilmington, NC 28401
 910 762-0892
 S2a3.com



CBHF
 Engineers, PLLC

2246 Yaupon Dr, Wilmington, NC 28401
 Tel: 910 791 5000
 Fax: 910 791 5266
 www.cbhfengineers.com
 © Copyright 2024 CBHF Engineers, PLLC NC8 P-6506



Leland Town Hall
 Addition &
 Renovations
 102 Town Hall Drive
 Leland, NC 28451

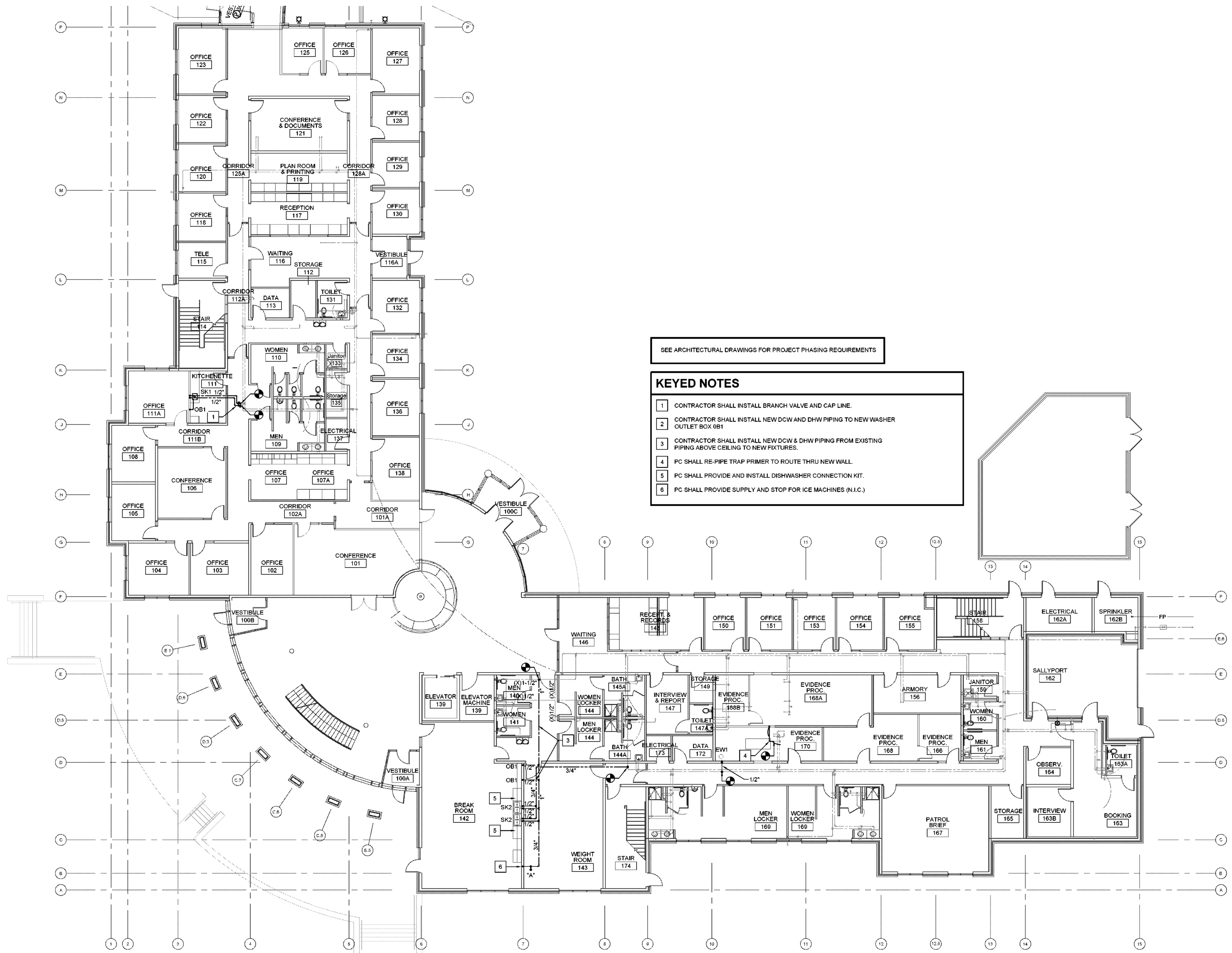
Construction Drawings

Issue Date: February 23, 2024

Rev.	Date	Notes

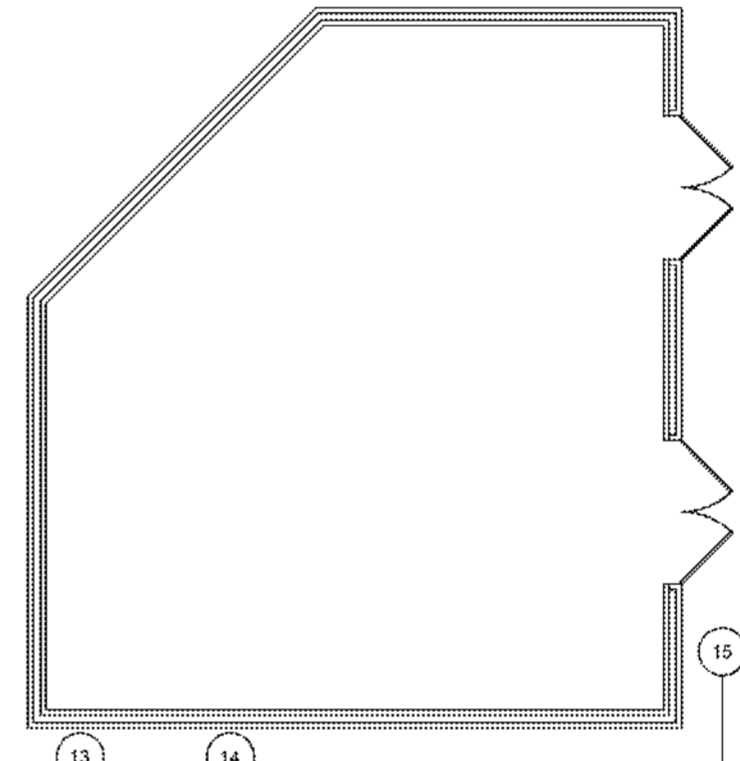
First Floor Plan -
 Domestic Water

P-2.1

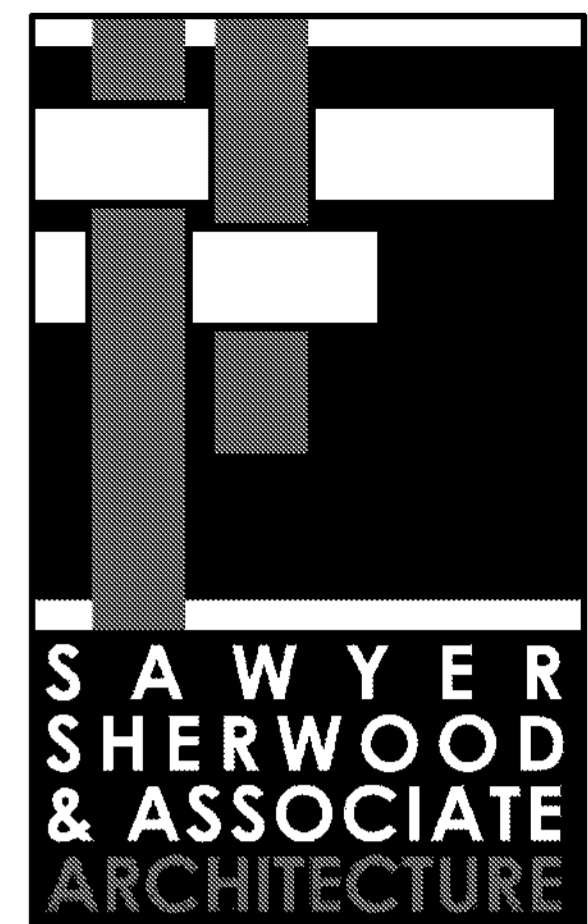
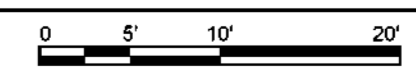


SEE ARCHITECTURAL DRAWINGS FOR PROJECT PHASING REQUIREMENTS

- KEYED NOTES**
- 1 CONTRACTOR SHALL INSTALL BRANCH VALVE AND CAP LINE.
 - 2 CONTRACTOR SHALL INSTALL NEW DCW AND DHW PIPING TO NEW WASHER OUTLET BOX 0B1
 - 3 CONTRACTOR SHALL INSTALL NEW DCW & DHW PIPING FROM EXISTING PIPING ABOVE CEILING TO NEW FIXTURES.
 - 4 PC SHALL RE-PIPE TRAP PRIMER TO ROUTE THRU NEW WALL.
 - 5 PC SHALL PROVIDE AND INSTALL DISHWASHER CONNECTION KIT.
 - 6 PC SHALL PROVIDE SUPPLY AND STOP FOR ICE MACHINES (N.I.C.)

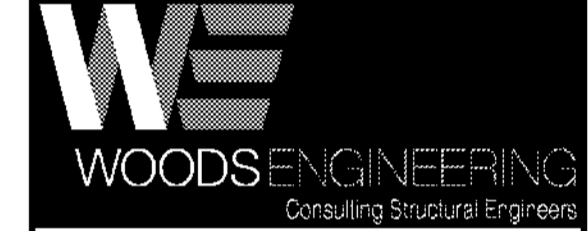


1 FIRST FLOOR PLAN - DOMESTIC WATER
3/32" = 1'-0"



**SAWYER
SHERWOOD
& ASSOCIATE
ARCHITECTURE**

124 Market Street
Wilmington, NC 28401
910 762-0892
S2a3.com



2246 Yaupon Dr. Wilmington, NC 28401
Tel: 910.731.4000
Fax: 910.791.5266
www.cbhfengineers.com
© Copyright 2024 CBHF Engineers, PLLC NCA P-0508



Leland Town Hall
Addition &
Renovations
102 Town Hall Drive
Leland, NC 28451

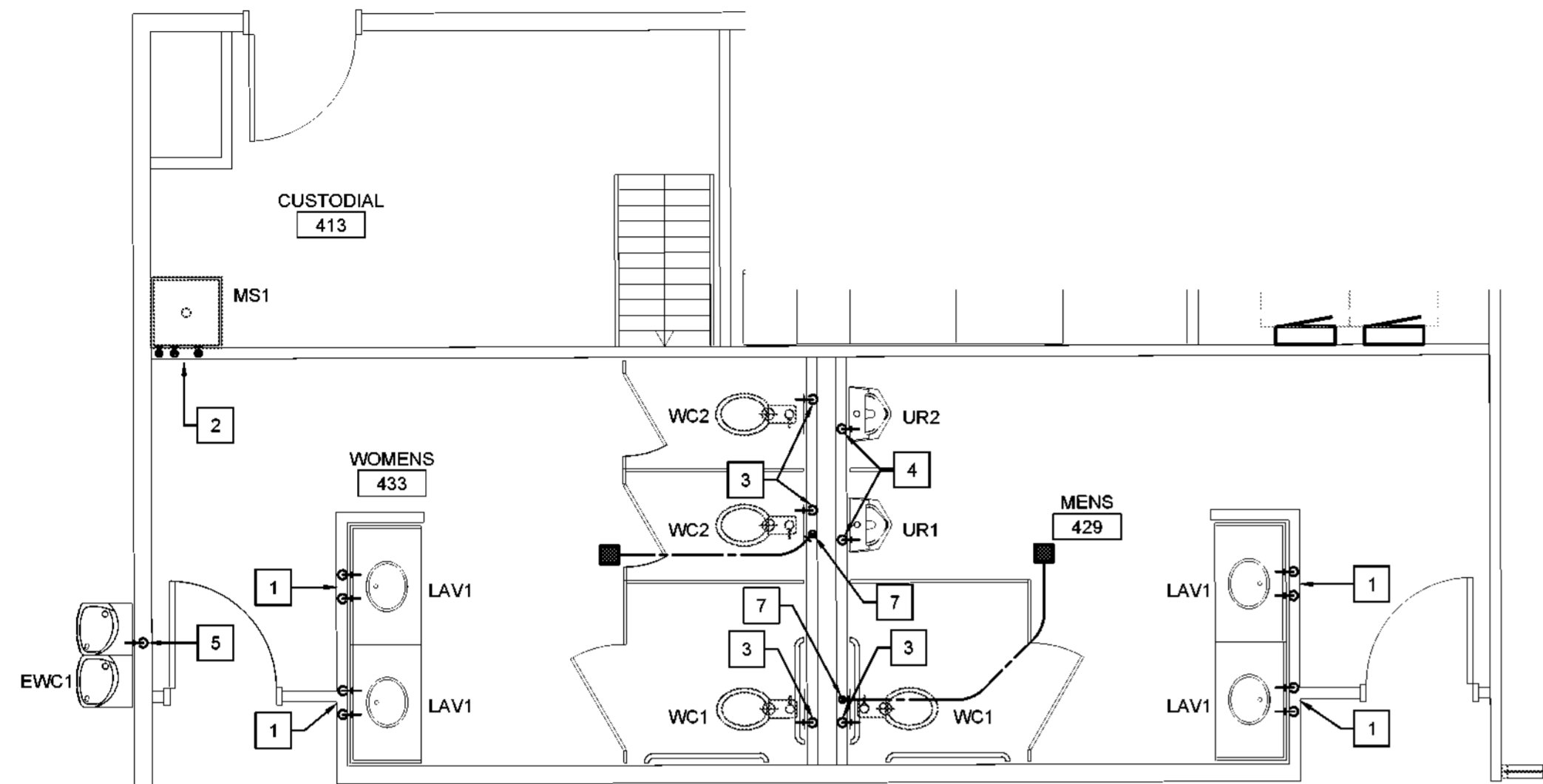
Construction Drawings

Issue Date: February 23, 2024

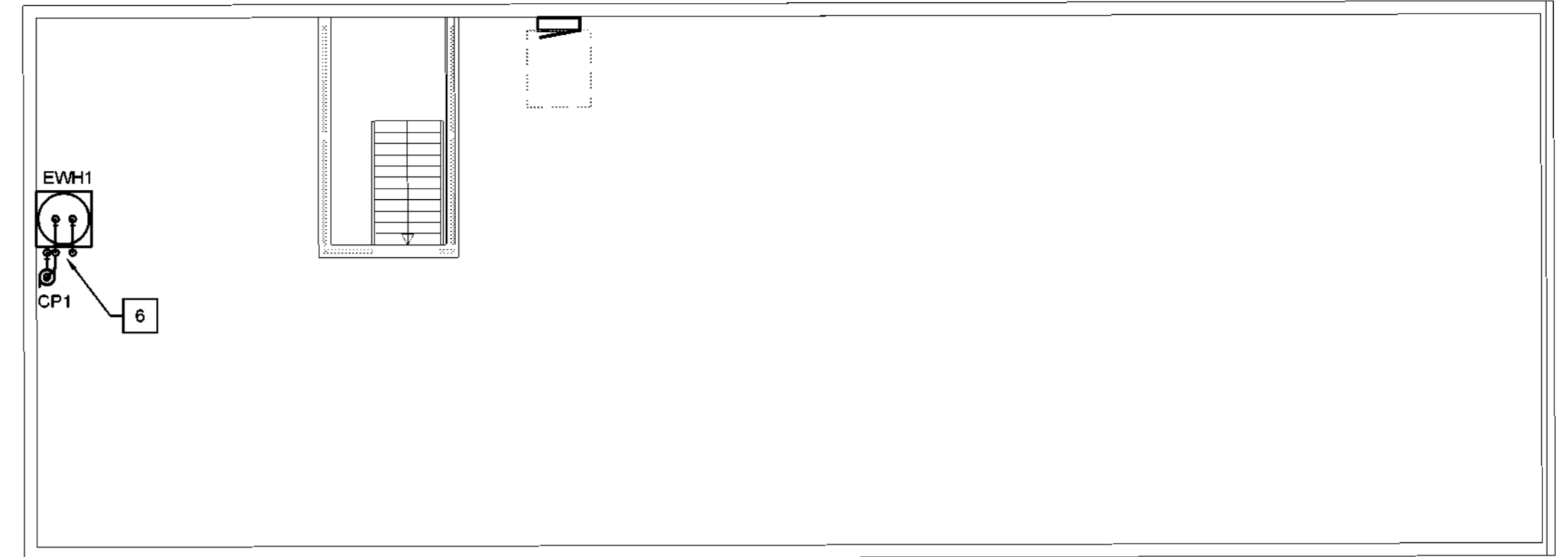
Rev.	Date	Notes

First Floor
Plan -
Domestic Water
P2.1R

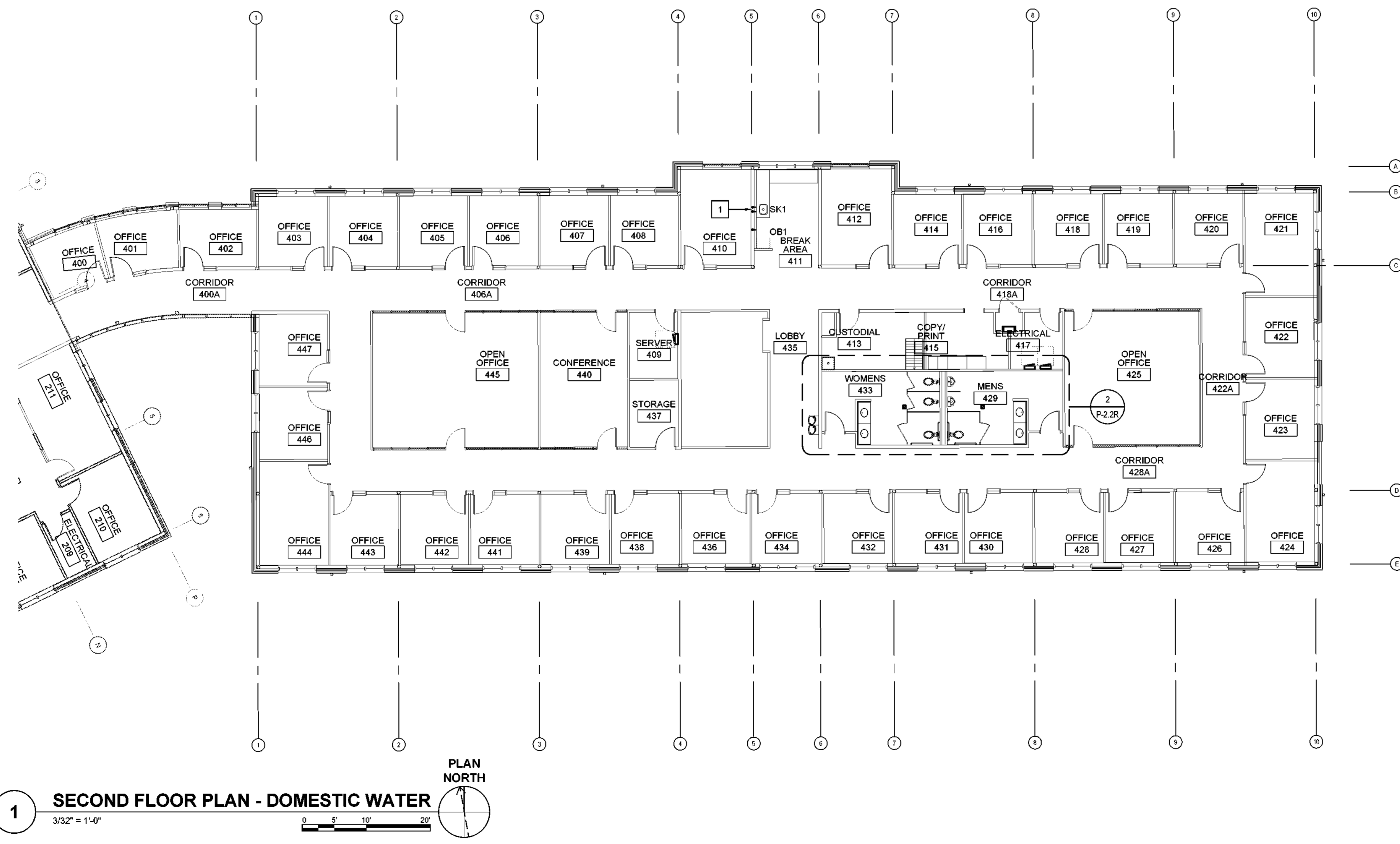
KEYED NOTES THIS SHEET	
1	1/2" DCW AND DHW FROM BELOW
2	3/4" DCW, DHW AND DHWR UP TO WATER HEATER ON MECH. MEZZANINE AND 3/4" DCW, DHW AND DHWR DOWN TO BELOW FLOOR. REFER TO 3/P2.2 FOR CONTINUATION.
3	1" DCW FROM BELOW.
4	3/4" DCW FROM BELOW.
5	1/2" DCW FROM BELOW.
6	3/4" DCW AND DHWR FROM BELOW. 3/4" DHW DOWN TO BELOW.
7	PROVIDE AND INSTALL FLUSH TUBE TRAP PRIMER.



2 ENLARGED DOMESTIC WATER PLAN
 1/4" = 1'-0"
 PLAN NORTH



3 MECHANICAL MEZZANINE DOMESTIC WATER PLAN
 3/16" = 1'-0"
 PLAN NORTH



1 SECOND FLOOR PLAN - DOMESTIC WATER
 3/32" = 1'-0"
 PLAN NORTH

SAWYER SHERWOOD & ASSOCIATE ARCHITECTURE
 124 Market Street
 Wilmington, NC 28401
 910 762-0892
 S2a3.com

mcgill Shopping Community Together

WOODS ENGINEERING Consulting Structural Engineers

CBHF Engineers, PLLC
 2246 Yaupon Dr. Wilmington, NC 28401
 Tel: 910.791.4000 Fax: 910.791.5266
 www.cbhfengineers.com
 © Copyright 2024 CBHF Engineers, PLLC NCA P-0508

PROFESSIONAL SEAL
 NORTH CAROLINA PROFESSIONAL SEAL
 043881
 ROY O. GRADY
 02/21/2024

Leland Town Hall Addition & Renovations
 102 Town Hall Drive
 Leland, NC 28451

Construction Drawings

Issue Date: February 23, 2024

Rev.	Date	Notes

Second Floor Plan - Domestic Water P2.2

© 2024 Sawyer Sherwood & Associate - All Rights Reserved

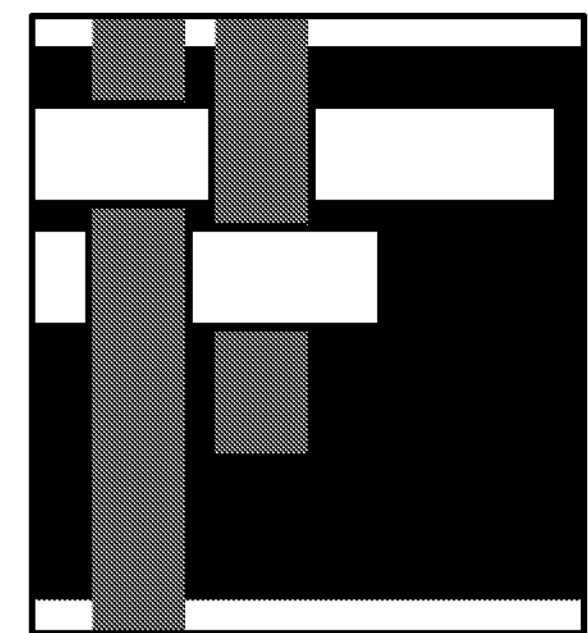
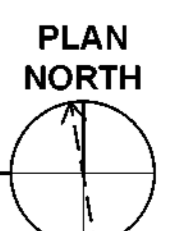
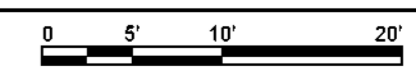


NO WORK THIS AREA

1

SECOND FLOOR PLAN - DOMESTIC WATER

3/32" = 1'-0"



**SAWYER
SHERWOOD
& ASSOCIATE
ARCHITECTURE**

124 Market Street
Wilmington, NC 28401
910 762-0892
S2a3.com



CBHF
Engineers, PLLC

2246 Yaupon Dr. Wilmington, NC 28401
Tel: 910.731.4000
Fax: 910.791.5266
www.cbhfindesigners.com
© Copyright 2024 CBHF Engineers, PLLC NCA P-0508



Leland Town Hall
Addition &
Renovations
102 Town Hall Drive
Leland, NC 28451

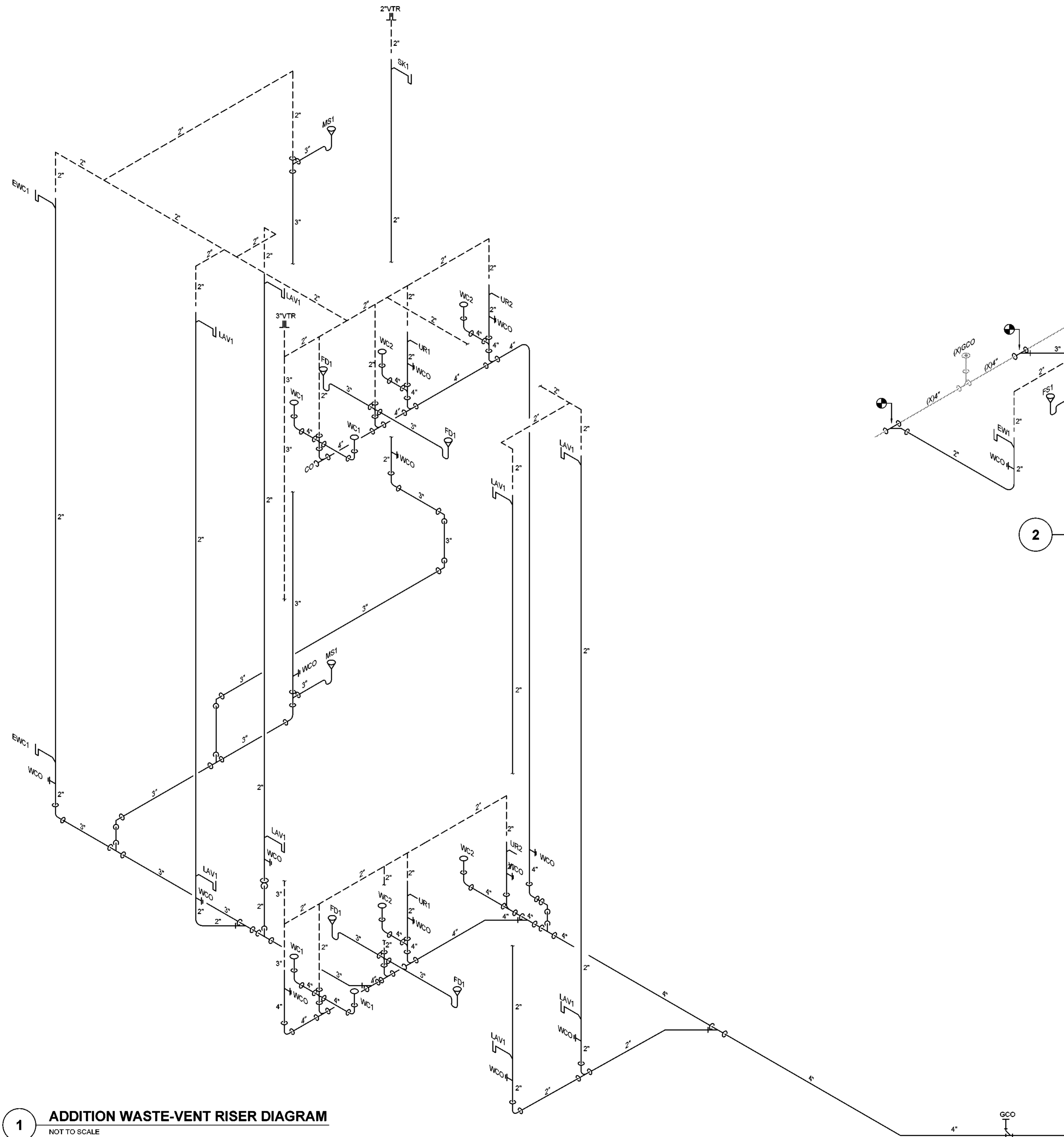
Construction Drawings

Issue Date: February 23, 2024

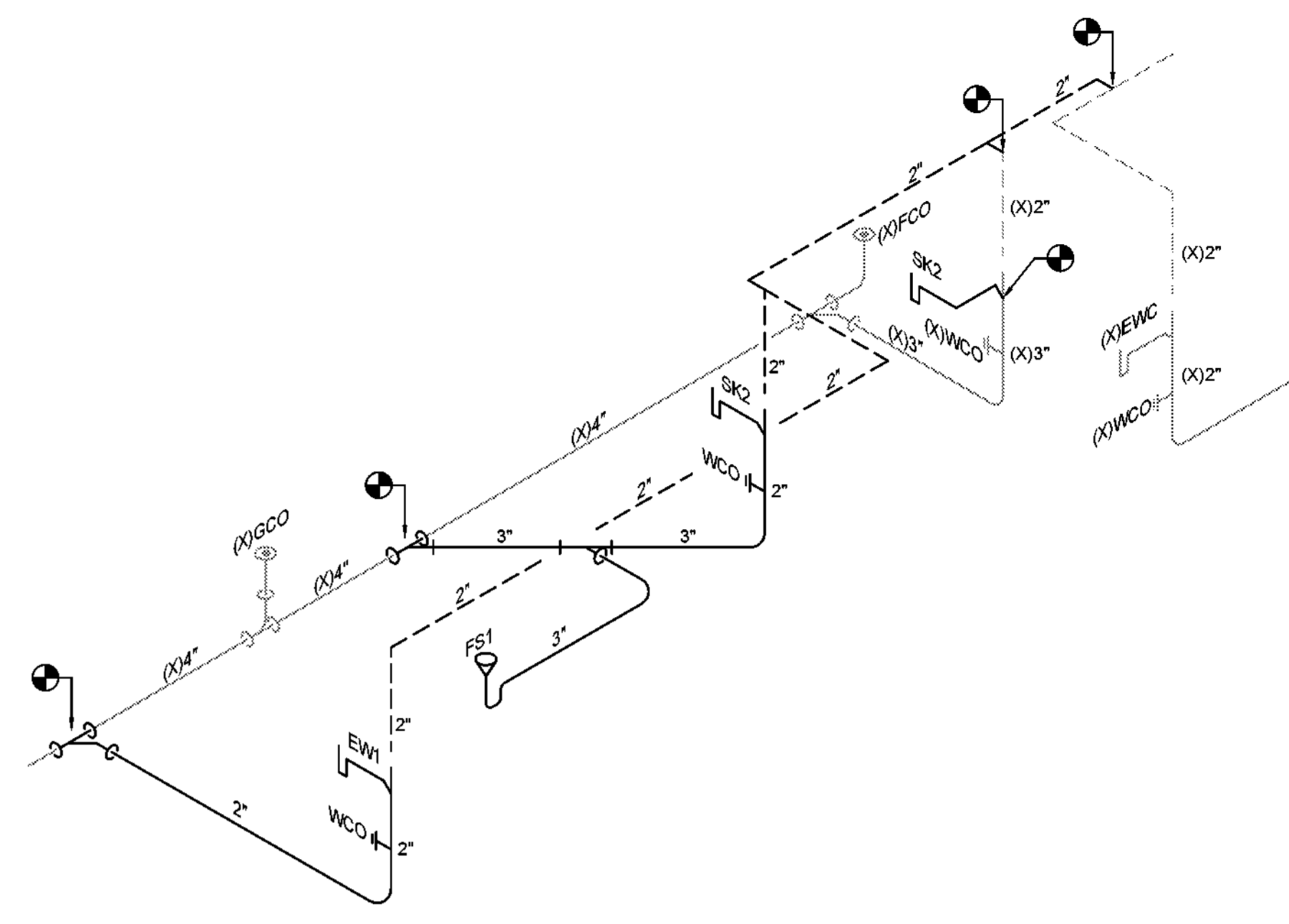
Rev.	Date	Notes

Second Floor
Plan -
Domestic Water
P2.2R

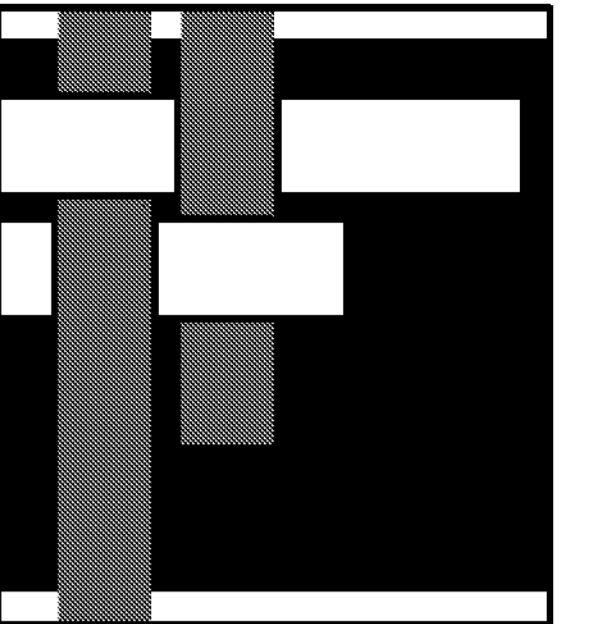
© 2024 Sawyer Sherwood & Associate - All Rights Reserved



1 ADDITION WASTE-VENT RISER DIAGRAM
NOT TO SCALE

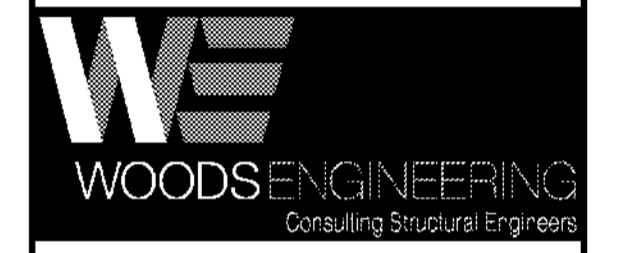


2 PARTIAL WASTE-VENT RISER DIAGRAM
NOT TO SCALE



**SAWYER
SHERWOOD
& ASSOCIATE
ARCHITECTURE**

124 Market Street
Wilmington, NC 28401
910 762-0892
S2a3.com



CBHF
Engineers, PLLC

2246 Yaupon Dr. Wilmington, NC 28401
Tel: 910.791.4000
Fax: 910.791.5266
www.cbhfind.com
© Copyright 2024 CBHF Engineers, PLLC NC4 P-0508



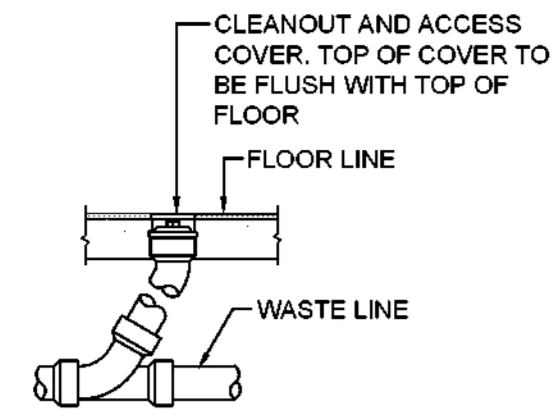
Leland Town Hall
Addition &
Renovations
102 Town Hall Drive
Leland, NC 28451

Construction Drawings

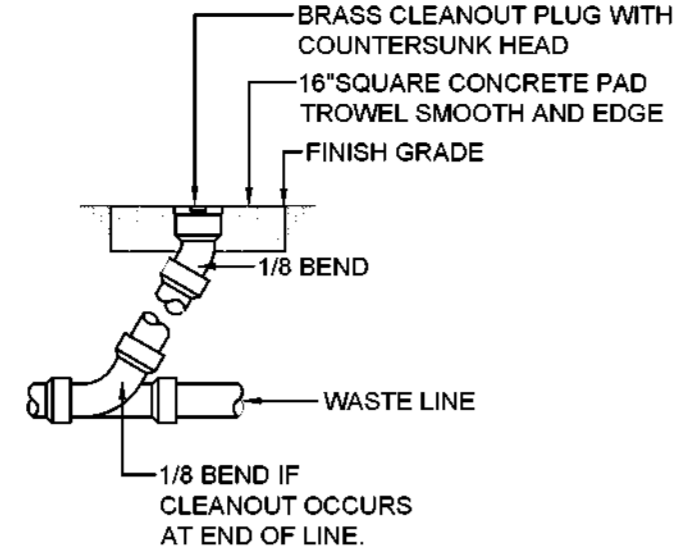
Issue Date: February 23, 2024

Rev.	Date	Notes

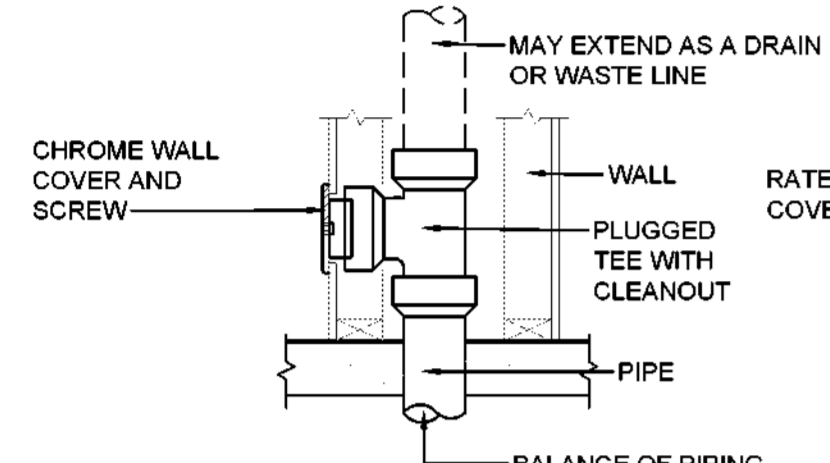
Plumbing
Waste-Vent
Riser Diagram
P5.1



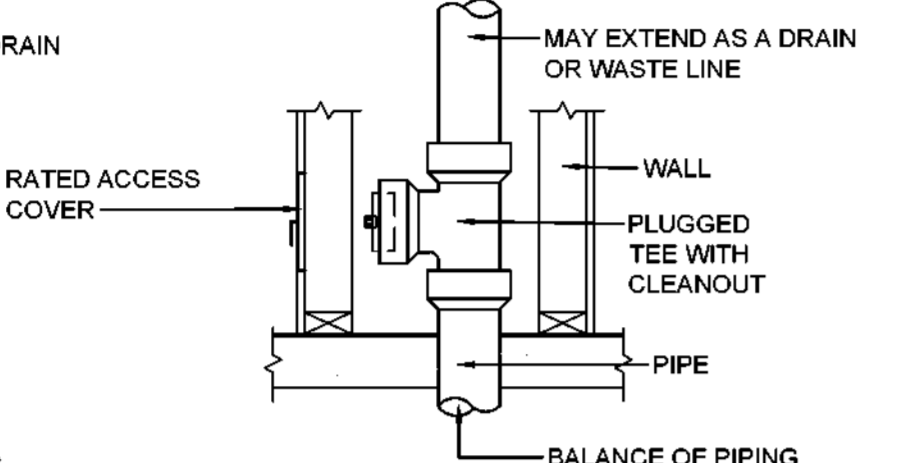
FLOOR CLEANOUT (FCO)



GRADE CLEANOUT (GCO)

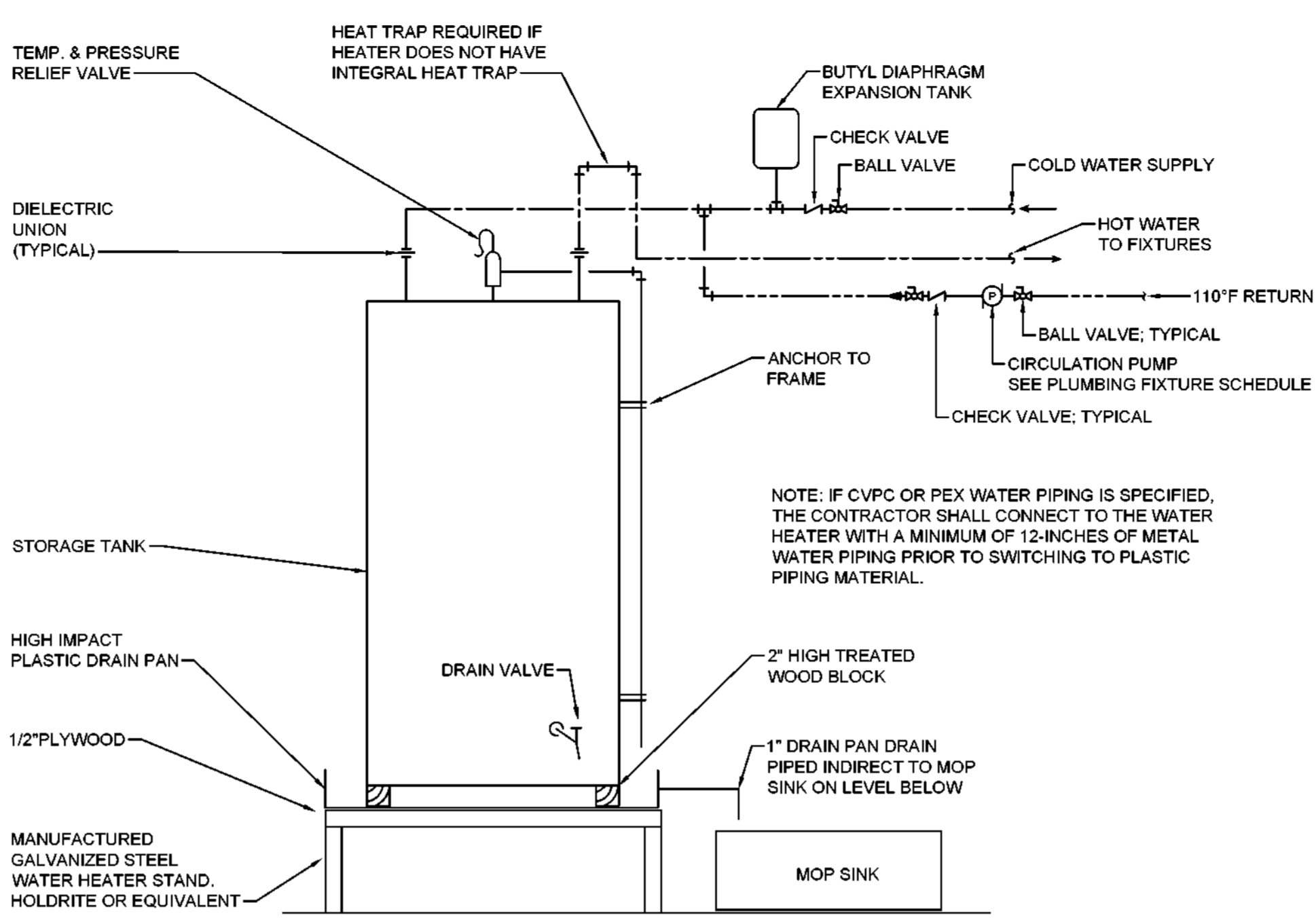


WALL CLEANOUT (WCO)

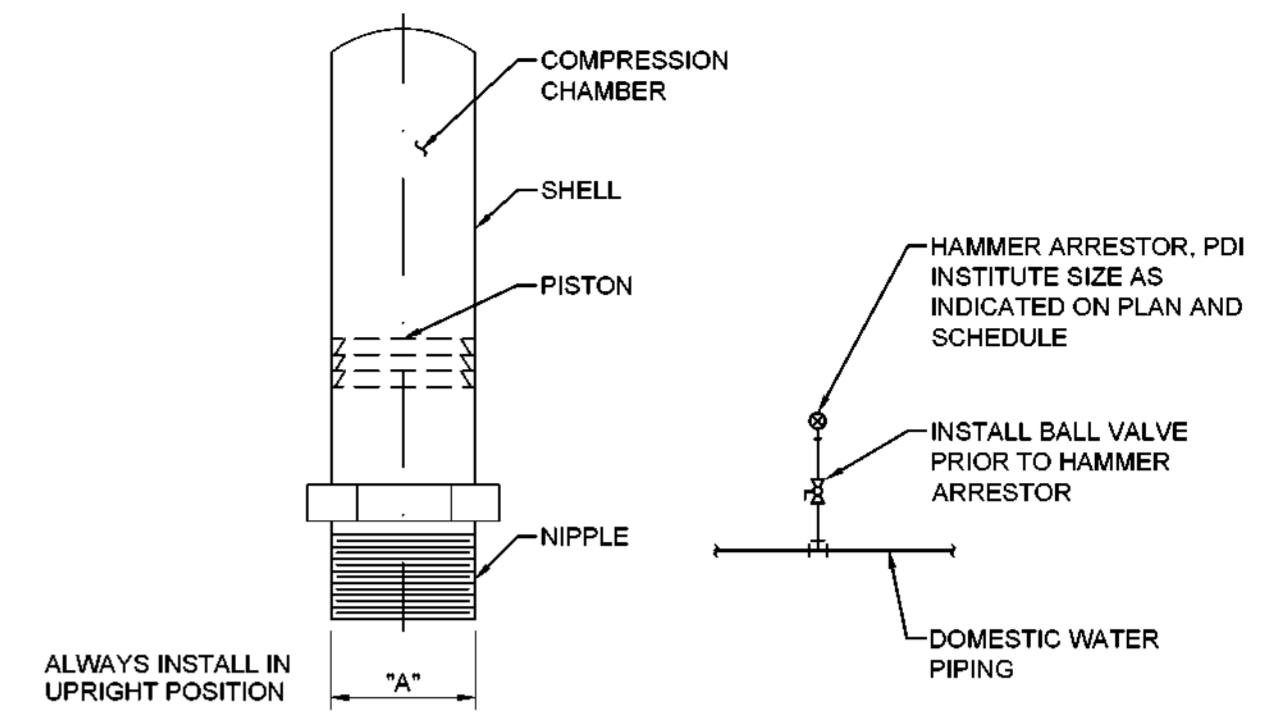


WALL CLEANOUT (WCO) RATED WALL

1 TYPICAL CLEANOUT DETAILS
NOT TO SCALE

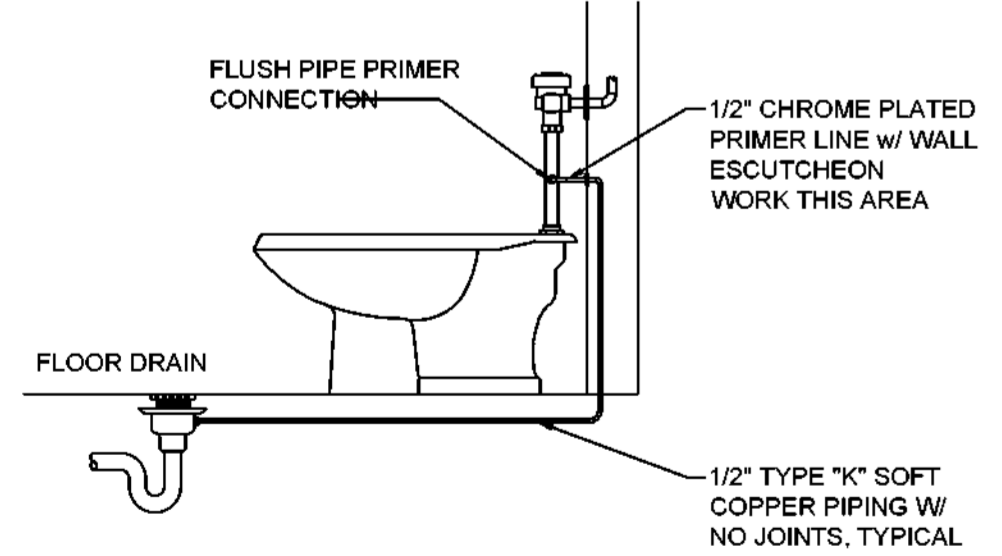


2 ELECTRIC WATER HEATER DETAIL
NOT TO SCALE

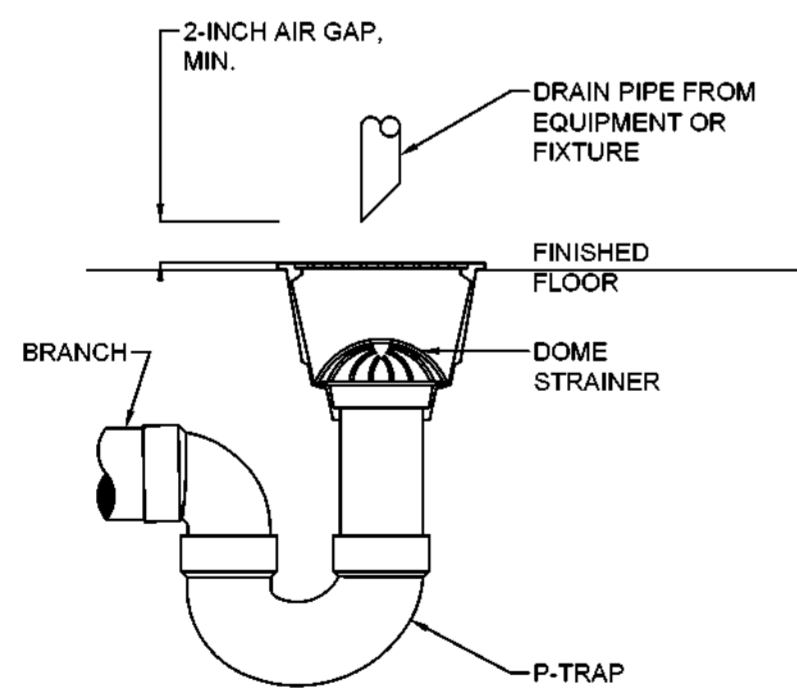


P.D.I. SYMBOL	FIXTURE UNIT RATING	A SIZE
A	1-11	1/2"
B	12-32	3/4"
C	33-60	1"
D	61-113	1"
E	114-154	1"
F	155-330	1"

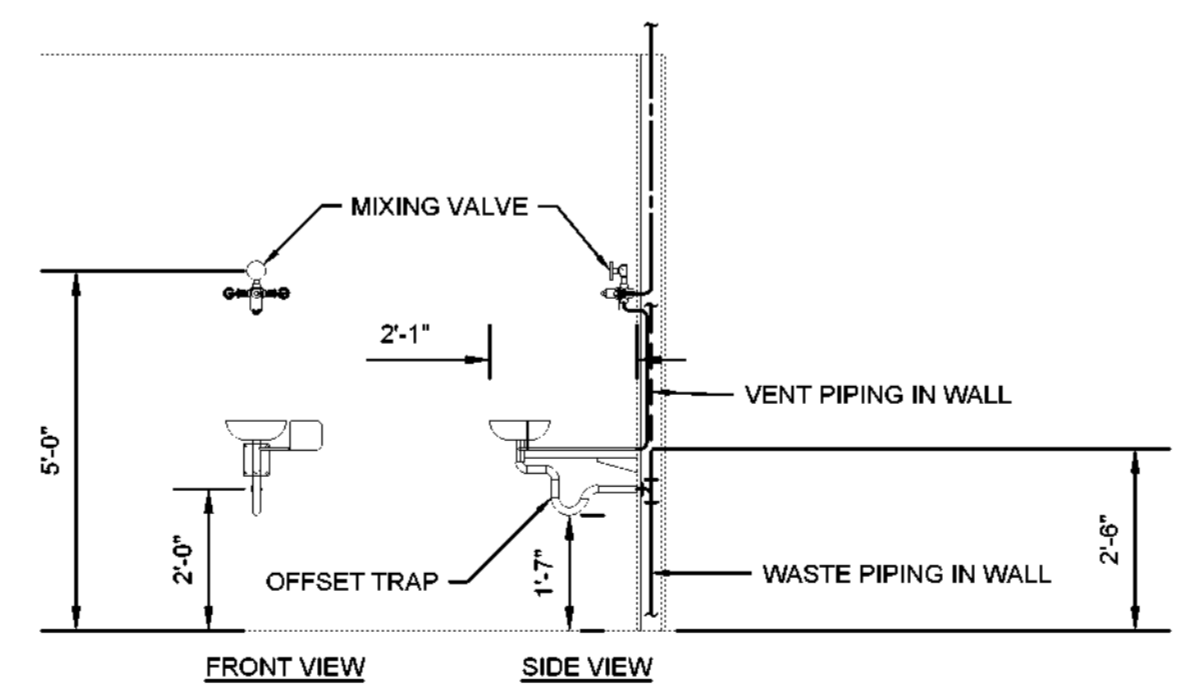
3 HAMMER ARRESTOR DETAIL
NOT TO SCALE



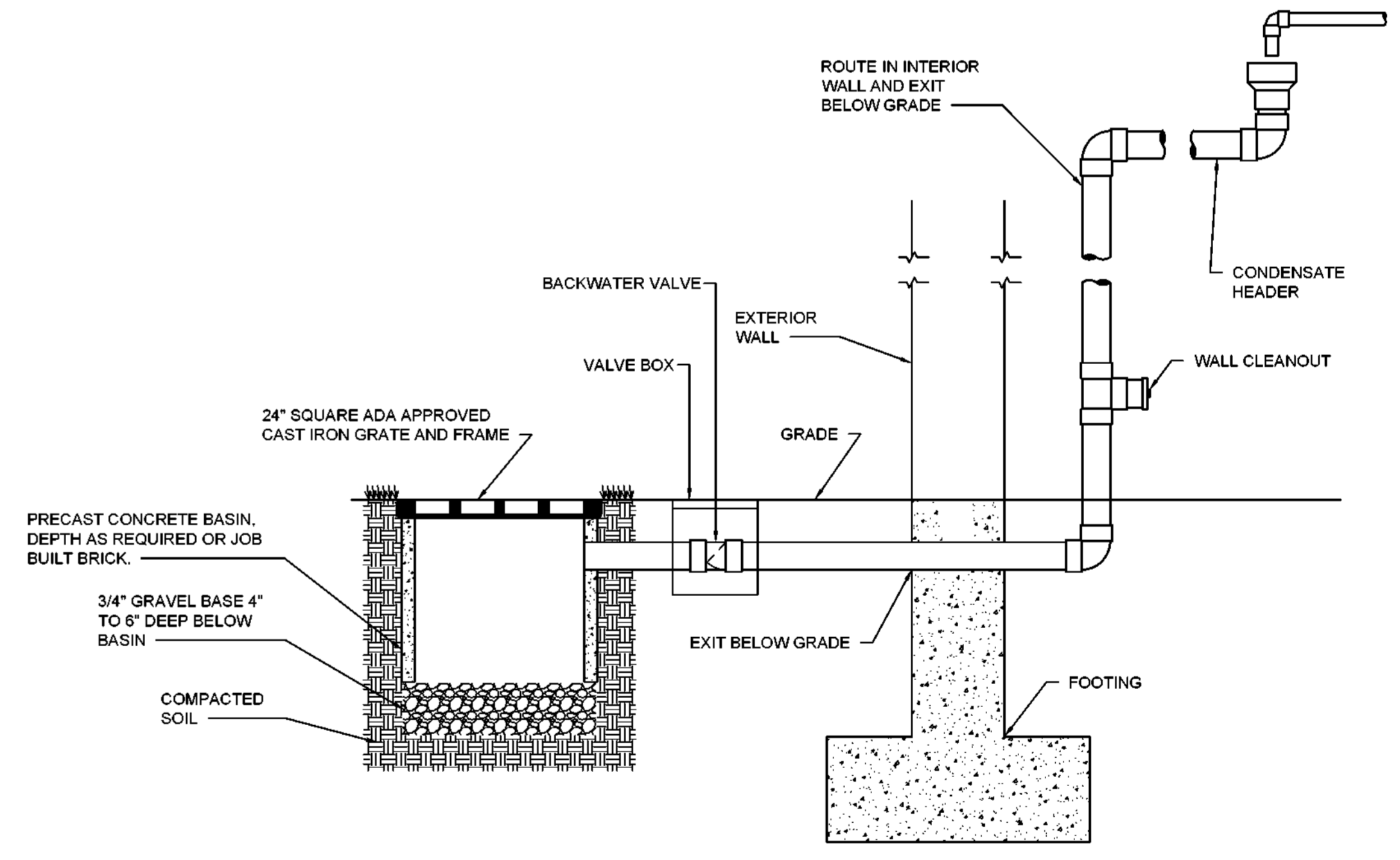
4 TRAP PRIMER DETAIL
NOT TO SCALE



5 FLOOR SINK DETAIL
NOT TO SCALE



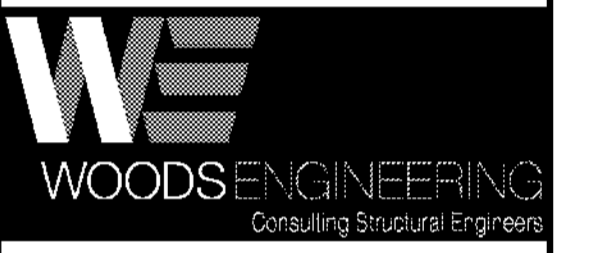
6 FLOOR SINK DETAIL
NOT TO SCALE



7 OPEN BOTTOM CATCH BASIN
NOT TO SCALE



124 Market Street
Wilmington, NC 28401
910 762-0892
S2a3.com



2246 Yaupon Dr. Wilmington, NC 28401
Tel: 910.791.4000
Fax: 910.791.5266
www.cbhfeengineers.com
© Copyright 2024 CBHF Engineers, PLLC NCA P-0508



Leland Town Hall
Addition &
Renovations
102 Town Hall Drive
Leland, NC 28451

Construction Drawings

Issue Date: February 23, 2024

Rev.	Date	Notes

Plumbing
Details

P5.2

PLUMBING FIXTURE SCHEDULE

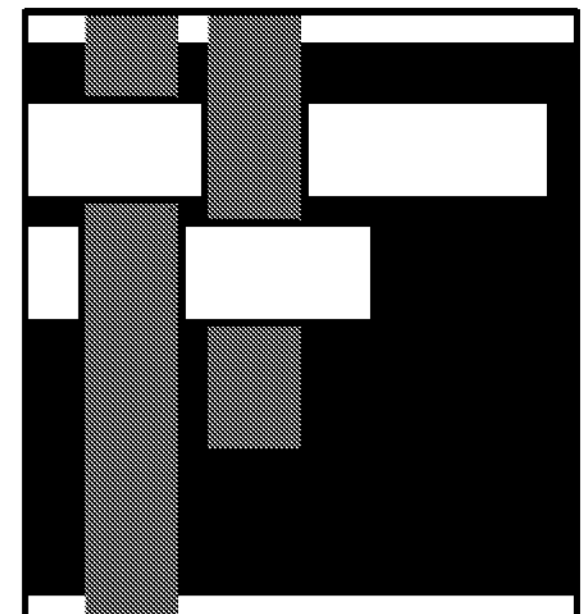
DRAWING CODE	FIXTURE	DESCRIPTION	MANUFACTURER	MODEL	ALTERNATE APPROVED MANUFACTURERS	NOTES	PIPE SIZE				
							DCW	DHW	WASTE	VENT	
WC1	FLUSH VALVE WATER CLOSET, FLOOR MTD., 1.6GPF, ADA	BOWL	16.5" HIGH BOWL, ELONGATED, V.C., 2-1/8" TRAPWAY; TOP SPUD; MADERA	AMERICAN STANDARD	3043.001	ZURN, KOHLER	6	1"	-	4"	2"
		FLUSH VALVE	11.5" HIGH, 1.6GPF	SLOAN	111-1.8.YBC	ZURN, TEC					
		SEAT	OFLC w/ SELF-SUSTAINING S.S. CHECK HINGE; HEIGHT 17-10" AFF	CHURCH	295SSCT	BEMIS, OLSONITE					
WC2	FLUSH VALVE WATER CLOSET, FLOOR MTD, 1.6GPF	BOWL	15" HIGH BOWL, ELONGATED, V.C., 2-1/8" TRAPWAY; TOP SPUD; MADERA	AMERICAN STANDARD	2234.001	ZURN, CRANE		1"	-	4"	2"
		FLUSH VALVE	16" HIGH, 1.6GPF	SLOAN	113-1.6	ZURN, TEC					
		SEAT	OFLC w/ SELF-SUSTAINING S.S. CHECK HINGE	CHURCH	295SSCT	BEMIS, OLSONITE					
UR1	URINAL WALL HUNG, 0.5GPF, ADA	BOWL	VITREOUS CHINA, WASHOUT, ELONGATED RIM MTD. 17 A.F.F. MAX., 3/4" TOP SPUD	AMERICAN STANDARD	6590.001	ZURN, KOHLER	1	3/4"	-	2"	2"
		FLUSH VALVE	11.5 HIGH	SLOAN	186-0.5	ZURN, TEC					
UR2	URINAL, WALL HUNG, 0.5GPF	BOWL	VITREOUS CHINA, WASHOUT, ELONGATED RIM MTD. 21 A.F.F. MAX., 3/4" TOP SPUD	AMERICAN STANDARD	6590.001	ZURN, KOHLER	1	3/4"	-	2"	2"
		FLUSH VALVE	11.5 HIGH	SLOAN	186-0.5	ZURN, TEC					
LAV1	COUNTERTOP LAVATORY, 0.5GPM, ADA	BOWL	20"x17" VITREOUS CHINA, 3/4"A.F.F., MAX.	AMERICAN STANDARD	0476.028	ZURN, CRANE	2,4,5,9,	1/2"	1/2"	2"	2"
		FAUCET	4" CENTERSET, SINGLE LEVER HANDLE, SOLID BRASS CONSTRUCTION, CERAMIC CARTRIDGE, HIGH TEMP LIMIT STOP	MOEN	8413F05	ZURN, DELTA					
		DRAIN	CAST BRASS, CHROME PLATED, OPEN GRID STRAINER P.O. PLUG WITH BRASS TAILPIECE	MCGUIRE	155A	DEARBORN, DELTA					
		MIXING VALVE	LEAD FREE THERMOSTATIC MIXING VALVE - SETPOINT = 105°F INSTALL ON HOT WATER SUPPLY, ASSE 1070	CASH ACME	HG-135	LEONARD, WATTS					
		BOWL	15"x15"x6", 18GA STAINLESS STEEL, SINGLE BOWL DROP-IN SINK	ELKAY	BLR1560	JUST, ACORN					
SK1	BAR SINK, ADA (FRONT APPROACH)	FAUCET	BRASS CONSTRUCTION, CHROME PLATED FINISH, 4" CENTERSET, 3-5/8" SPOUT REACH, 4" WRIST BLADE HANDLES, VANDAL RESISTANT, 1.5GPM	MOEN	8278SMF15	DELTA, ZURN	2,4,5,9,	1/2"	1/2"	2"	2"
		DRAIN	WROUGHT BRASS CHROME PLATED STRAINER, BRASS TAILPIECE	MCGUIRE	152N	ZURN, MOEN					
		BOWL	33X22X6.5, 18 GA S.S.	ELKAY	LRAD3322	JUST, ACORN					
SK2	2-COMPARTMENT COUNTERTOP SINK, ADA	FAUCET	GOOSENECK, LEVER HANDLE, V.P.	DELTA	140-WF	ZURN, MOEN	2,4,5	1/2"	1/2"	2"	2"
		DRAIN	(2) CRUMBCUP STRAINERS	ELKAY	LK35	ZURN, MOEN					
		BASIN	24"x24"x10" MOLDED STONE w/ STAINLESS STEEL DRAIN	FIAT	MSB-2424	FLORESTONE, ZURN					
MS1	MOP SINK	FAUCET	BRASS CONSTRUCTION, ROUGH CHROME FINISH, INTEGRAL VACUUM BREAKER, INTEGRAL CHECK STOPS, 3/4" THREADED SPOUT, SERVICE STOPS, WALL MOUNT, VANDAL RESISTANT, LEVER HANDLES	MOEN	8124	DELTA, ZURN	10	1/2"	1/2"	3"	2"
		ACCESSORIES	STAINLESS STEEL, THREE STATION MOP/BROOM HOLDER	MOEN	8198	-					
		ACCESSORIES	STAINLESS STEEL, HOSE BRACKET WITH 30" HEAVY DUTY RUBBER HOSE, GHT THREADED CONNECTION	MOEN	8199	DELTA, ZURN					
ze	WALL HUNG WATER COOLER, ADA	FIXT	SPLIT LEVEL, S.S. TOP, LIGHT GREY BODY, BOTTLE FILLING STATION, 8 GPH @ 50/80/90, 120V/1PH WITH FILTER	ELKAY	LZSTL6WSLK	HALSEY TAYLOR, OASIS	1,11	1/2"	-	2"	2"
EW1H1	ELECTRIC WATER HEATER, 40 GAL	FIXT	GLASS-LINED TANK, DUAL 4500W, 208V/1PH, NON-SIMULT.	A.O. SMITH	DEL-40	BRADFORD-WHITE, RHEEM	8	3/4"	3/4"	-	-
EW1	WALL MOUNT EYE/FACE WASH	FIXT	HIGH VIS YELLOW, PLASTIC BOWL, W/ DUST COVER, STAY-OPEN BALL VALVE, PUSH HANDLE ACTIVATION	BRADLEY	S19224PDCFV	GUARDIAN, ACORN		1/2"	1/2"	-	-
FCO	FLOOR CLEANOUT	FIXT	4"SCH. 40 HUB, PVC BASE ADAPTER, ROUND NICKEL-BRONZE COVER, VANDAL RESISTANT SCREWS	SIOUX CHIEF	834-4PNRV	ZURN, SMITH		-	-	MATCH	-
GCO	GRADE CLEANOUT	FIXT	4"SCH. 40 HUB, PVC BASE ADAPTER, ROUND NICKEL-BRONZE COVER, VANDAL RESISTANT SCREWS	SIOUX CHIEF	851-44NV	ZURN, SMITH		-	-	MATCH	-
WCO	WALL CLEANOUT	FIXT	ROUND S/S ACCESS COVER & SCREW, RECESS BRONZE THRD. PLUG	SIOUX CHIEF	870	ZURN, SMITH		-	-	MATCH	-
FD1	FLOOR DRAIN	FIXT	FINISHLINE ADJUSTABLE, SCH. 40 HUB CONNECTION, ABS/PVC BASE ADAPTER, SQUARE, NICKEL BRONZE STRAINER, TRAP PRIMER CONNECTION	SIOUX CHIEF	832	ZURN, SMITH	7	-	-	MATCH	-
FS1	FLOOR SINK	FIXT	PVC BODY, 14"x14" PLASTIC TOP w/ 1/2 GRATE, BEEHIVE STRAINER	SIOUX CHIEF	861	ZURN, SMITH	7	-	-	MATCH	-
CP1	HOT WATER RECIRCULATION PUMP	FIXT	IN-LINE WET ROTOR, STAINLESS STEEL VOLUTE, 3-SPEED, 115/1/60, 125W, BUILT IN THERMAL PROTECTION.	GRUNDFOS	UPS 15	B&G, MYERS		-	MATCH	-	-
WH1	WALL HYDRANT	FIXT	CHROME PLATED BRASS, ANTI-SIPHON, VACUUM BREAKER, REMOVABLE TEE HANDLE, 3/4" HOSE THREAD	WOODFORD	65	ZURN, WATTS		3/4"	-	-	-
OB1	ICE MAKER BOX	FIXT	ABS HOUSING, 1/4 TURN BALL VALVE, CHROME PLATED BRASS, SHOCK ARRESTORS	SIOUX CHIEF	696	OATEY, IPS		1/2"	-	-	-
NOTES 1. PROVIDE MATCHING WALL HANGER. COORDINATE WITH G.C. FOR WALL REINFORCING. 2. PROVIDE BRASS 1-1/2" TAILPIECE, CAST BRASS SLIP JOINT P-TRAP WITH CLEANOUT; PROVIDE ADA OFFSET ARRANGEMENT WHERE REQUIRED. 3. NOT USED. 4. COORDINATE WITH MILLWORK. 5. COORDINATE ADA MILLWORK ENCLOSURE FOR WATER AND DRAIN PIPING UNDER SINK. 6. TRIP LEVER OR FLUSH HANDLE TO BE LOCATED ON WIDE SIDE OF STALL OR TOILET ROOM. 7. PROVIDE TRAP PRIMER 8. FIELD ROUTE 1" DRAIN PAN DRAIN PIPING TO CLOSEST INDIRECT DRAIN OR SPILL TO GRADE. 9. PROVIDE 1/2" IPS X 3/8" OD ANGLE BRASS STOP(S) WITH RIGID COPPER RISERS. ALL EXPOSED PIPING SHALL BE CHROME PLATED. 10. PROVIDE INLINE CHECK VALVES FOR WATER SUPPLY LINES. 11. PROVIDE 1/2" IPS X 3/8" O.D. BRASS STOP CONCEALED BEHIND CABINET.											

PLUMBING SUMMARY WORKSHEET-ADDITION

FIXTURE	OCCUPANCY	TYPE OF CONTROL	QUANTITY	DOMESTIC WATER SYSTEM (W.S.F.U.)						WASTE & VENT SYSTEM (D.F.U.)	
				INDIVIDUAL FIXTURE UNITS			TOTAL FIXTURE UNITS			EACH	TOTAL
				COLD	HOT	TOTAL	COLD	HOT	TOTAL		
DRINKING FOUNTAIN	OFFICES, ETC.	3/8" VALVE	2	0.25	0.0	0.25	0.5	0.0	0.5	0.5	1.0
KITCHEN SINK	PRIVATE	FAUCET	1	1.0	1.0	1.4	1.0	1.0	1.4	2.0	2.0
LAVATORY	PUBLIC	FAUCET	8	1.5	1.5	2.0	12.0	12.0	16.0	1.0	8.0
SERVICE SINK	OFFICES, ETC.	FAUCET	2	2.25	2.25	3.00	4.5	4.5	6.0	2.0	4.0
URINAL	PUBLIC	3/4" FLUSH VALVE	4	5.00	0.00	5.00	20.0	0.0	20.0	2.0	8.0
WATER CLOSET	PUBLIC	FLUSH VALVE	8	10.00	0.00	10.00	80.0	0.0	80.0	4.0	32.0
TOTALS							118.0	17.5	123.0	4.0	55.0

BASED ON AN ESTIMATED DEMAND OF 124 W.S.F.U. (73 GPM), PROVIDE A 2" INCOMING WATER LINE.

BASED ON A WASTE COUNT OF 55 D.F.U., PROVIDE A 4" OUTGOING WASTE LINE.



**SAWYER
SHERWOOD
& ASSOCIATE
ARCHITECTURE**

124 Market Street
Wilmington, NC 28401
910 762-0892
S2a3.com



2246 Yaupon Dr. Wilmington, NC 28401
Tel: 910.791.4000
Fax: 910.791.5266
www.cbhfind.com
© Copyright 2024 CBHF Engineers, PLLC NCA P-0508



Leland Town Hall
Addition &
Renovations
102 Town Hall Drive
Leland, NC 28451

Construction Drawings

Issue Date: February 23, 2024

Rev.	Date	Notes

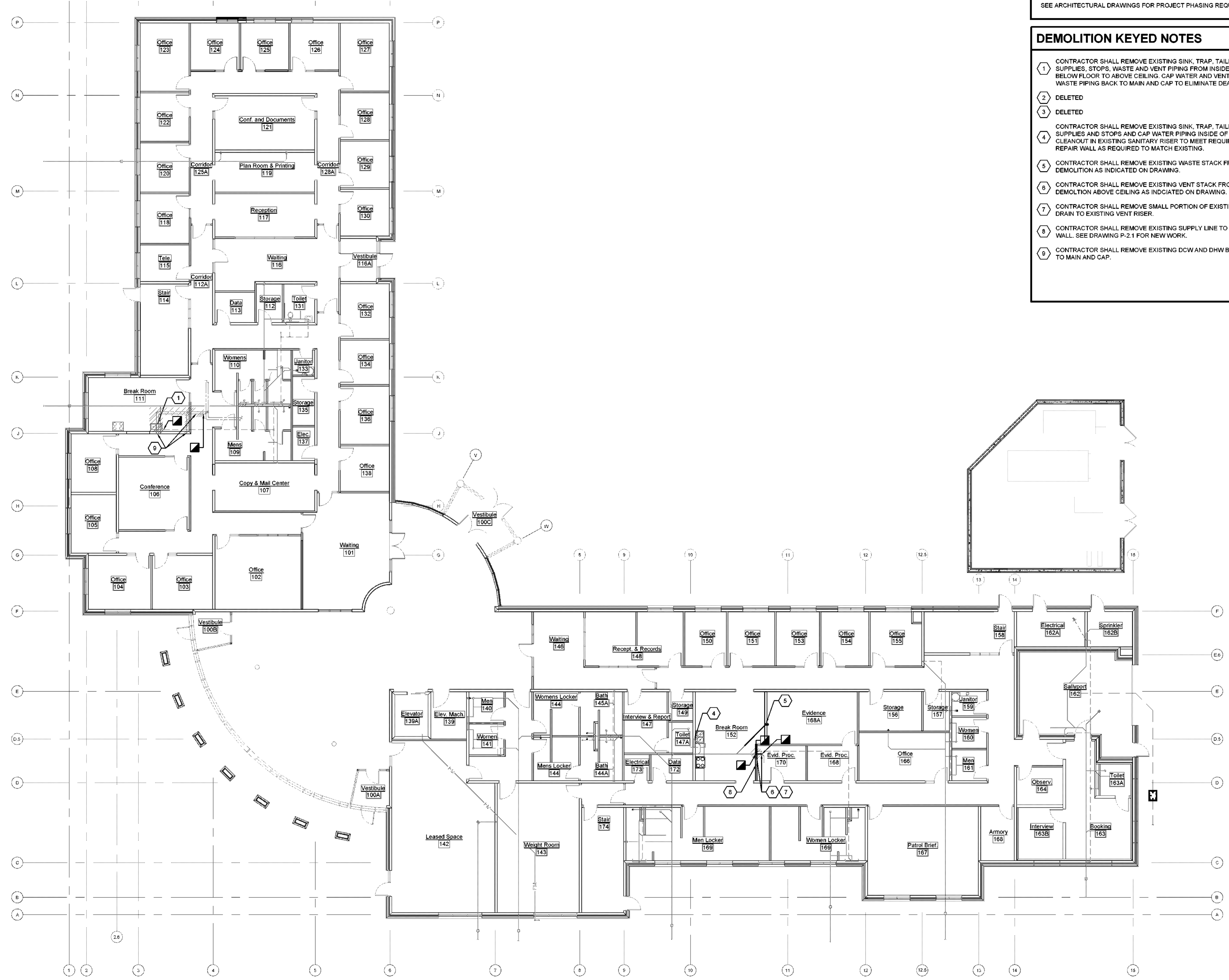
Plumbing
Schedules

P6.1

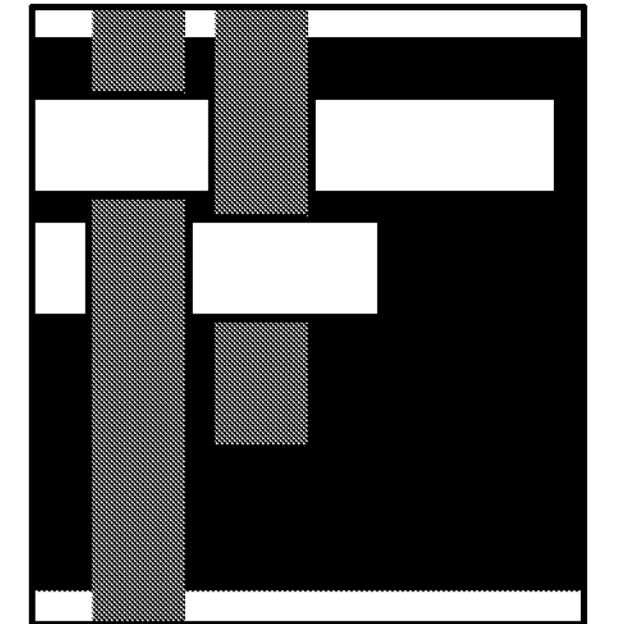
SEE ARCHITECTURAL DRAWINGS FOR PROJECT PHASING REQUIREMENTS

DEMOLITION KEYED NOTES

- 1 CONTRACTOR SHALL REMOVE EXISTING SINK, TRAP, TAILPIECE, ETC. COMPLETE. REMOVE SUPPLIES, STOPS, WASTE AND VENT PIPING FROM INSIDE OF WALL TO BE DEMOLISHED FROM BELOW FLOOR TO ABOVE CEILING. CAP WATER AND VENT PIPING ABOVE CEILING. REMOVE WASTE PIPING BACK TO MAIN AND CAP TO ELIMINATE DEAD END.
- 2 DELETED
- 3 DELETED
- 4 CONTRACTOR SHALL REMOVE EXISTING SINK, TRAP, TAILPIECE, ETC. COMPLETE. REMOVE SUPPLIES AND STOPS AND CAP WATER PIPING INSIDE OF WALL CAVITY. INSTALL WALL CLEANOUT IN EXISTING SANITARY RISER TO MEET REQUIREMENTS OF NCPG 704.5 DEAD ENDS. REPAIR WALL AS REQUIRED TO MATCH EXISTING.
- 5 CONTRACTOR SHALL REMOVE EXISTING WASTE STACK FROM ABOVE CEILING TO END POINT OF DEMOLITION AS INDICATED ON DRAWING.
- 6 CONTRACTOR SHALL REMOVE EXISTING VENT STACK FROM WASTE BRANCH TO END POINT OF DEMOLITION ABOVE CEILING AS INDICATED ON DRAWING.
- 7 CONTRACTOR SHALL REMOVE SMALL PORTION OF EXISTING WASTE BRANCH SERVING FLOOR DRAIN TO EXISTING VENT RISER.
- 8 CONTRACTOR SHALL REMOVE EXISTING SUPPLY LINE TO DRAIN TRAP PRIMER IN DEMOLITION WALL. SEE DRAWING P-2.1 FOR NEW WORK.
- 9 CONTRACTOR SHALL REMOVE EXISTING DCW AND DHW BRANCH PIPING FROM FIXTURES BACK TO MAIN AND CAP.



1 FIRST FLOOR PLAN - DEMOLITION
 3/32" = 1'-0"
 0 5' 10' 20'
 PLAN NORTH



**SAWYER
SHERWOOD
& ASSOCIATE
ARCHITECTURE**

124 Market Street
 Wilmington, NC 28401
 910 762-0892
 S2a3.com



WE
WOODS ENGINEERING
 Consulting Structural Engineers

CBHF
 Engineers, PLLC

2246 Yaupon Dr. Wilmington, NC 28401
 Tel: 910.731.4000
 Fax: 910.791.5266
 www.cbhfeengineers.com
 © Copyright 2024 CBHF Engineers, PLLC NCA P-0508



Leland Town Hall
 Addition &
 Renovations
 102 Town Hall Drive
 Leland, NC 28451

Construction Drawings

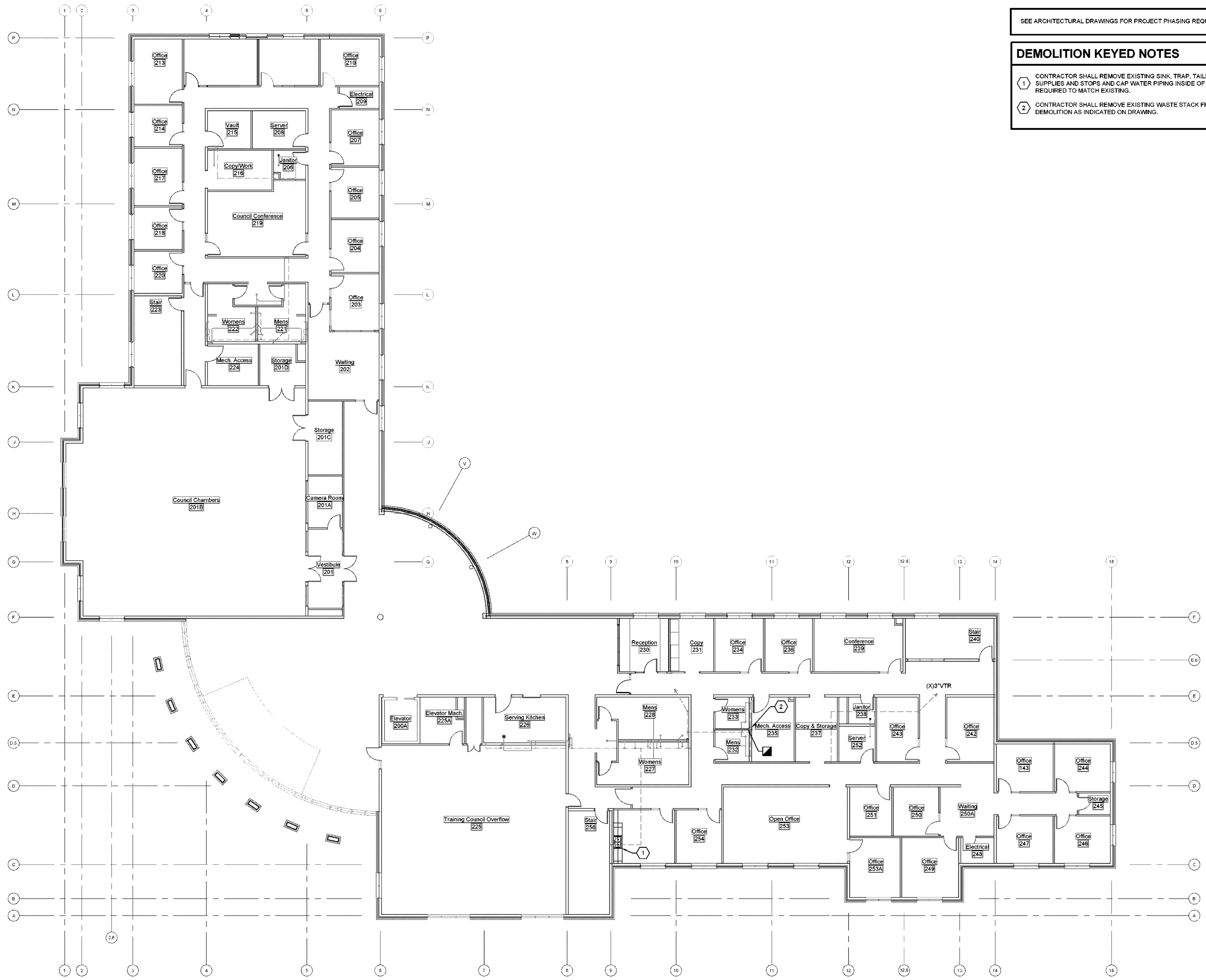
Issue Date: February 23, 2024

Rev.	Date	Notes

Plumbing First
 Floor Plan -
 Demolition
PD1.1R
 © 2024 Sawyer Sherwood & Associate - All Rights Reserved

SEE ARCHITECTURAL DRAWINGS FOR PROJECT PHASING REQUIREMENTS

- DEMOLITION KEYED NOTES**
- ① CONTRACTOR SHALL REMOVE EXISTING SINK, TRAP, TAILPIECE, ETC. COMPLETE. REMOVE SUPPLIES AND STOPS AND CAP WATER PIPING INSIDE OF WALL CAVITY. REPAIR WALL AS REQUIRED TO MATCH EXISTING.
 - ② CONTRACTOR SHALL REMOVE EXISTING WASTE STACK FROM ABOVE CEILING TO END POINT OF DEMOLITION AS INDICATED ON DRAWING.



1 SECOND FLOOR PLAN - DEMOLITION
 3/32" = 1'-0"
 0 5' 10' 20'
 PLAN NORTH

SAWYER SHERWOOD & ASSOCIATE ARCHITECTURE
 124 Market Street
 Wilmington, NC 28401
 910 762-0892
 S2a3.com

mcgill Shopping Communities Together

WE WOODS ENGINEERING
 Consulting Structural Engineers

CBHF Engineers, PLLC
 2246 Yaupon Dr. Wilmington, NC 28401
 Tel: 910.791.4000
 Fax: 910.791.5266
 www.cbhfindesigners.com
 © Copyright 2024 CBHF Engineers, PLLC NCA P-0508

PROFESSIONAL SEAL
 NORTH CAROLINA
 SEAL 043881
 ROY O. GRADY
 02/21/2024

Leland Town Hall Addition & Renovations
 102 Town Hall Drive
 Leland, NC 28451

Construction Drawings

Issue Date: February 23, 2024

Rev.	Date	Notes

Plumbing Second Floor Plan - Demolition PD1.2R
 © 2024 Sawyer Sherwood & Associate - All Rights Reserved