

PLUMBING ABBREVIATIONS

A/E ARCHITECT / ENGINEER	ICW INDUSTRIAL COLD WATER	V VENT
AD AREA DRAIN	INV INVERT	VAC VACUUM
AFG ABOVE FINISH FLOOR	IPC INTERNATIONAL PLUMBING CODE	YB VACUUM BREAKER
AFI ABOVE FINISH GRADE	IRW IRRIGATION WATER	VCO VACUUM CLEANER OUTLET
AG AIR GAP	IW INDIRECT WASTE	VP VACUUM PUMP
AP ACCESS PANEL	IWH INSTANTANEOUS WATER HEATER	VST VENT STACK
AS AUTOMATIC SPRINKLER	IWR INDUSTRIAL WATER RETURN	VTR VENT THROUGH ROOF
ASD ADJUSTABLE SPEED DRIVES	IWS INDUSTRIAL WATER SUPPLY	W WASTE
ASD AUTOMATIC SPRINKLER DRAIN		WC WATER CLOSET
ASHRAE AMERICAN SOCIETY HEATING, REFRIGERATION, AIR CONDITIONING ENGINEERS	KW KILOWATT	WCO WALL CLEANOUT
ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS	KWHR KILOWATT-HOUR	WG WATER GAGE
ASPE AMERICAN SOCIETY PLUMBING ENGINEERS	L/S LITER PER SECOND	WH WALL HYDRANT
ASR AUTOMATIC SPRINKLER RISER	LA LABORATORY AIR	WH WATER HEATER
AV ACID VENT	LAV LAVATORY	WHA WATER HAMMER ARRESTER
AW ACID WASTE	LBSHR POUNDS PER HOUR	WL WATER LINE
B/G BELOW GRADE	LCW LABORATORY COLD WATER	WM WATER METER
BFP REDUCED PRESSURE BACKFLOW PREVENTER	LHW LABORATORY HOT WATER	WPD WATER PRESSURE DROP
BHP BREAK HORSEPOWER	LNG LIQUID NATURAL GAS	WS WASTE STACK
BSP BLACK STEEL PIPE	LOX LIQUID OXYGEN	YCO YARD CLEANOUT
BT BATHTUB	LV LABORATORY VACUUM	YH YARD HYDRANT
BTU BRITISH THERMAL UNIT	LW LOW WATER	
BTUH BRITISH THERMAL UNIT PER HOUR		
C CELSIUS	M METER	
CGA COMPRESSED GAS ASSOCIATION	MA MEDICAL AIR	
CH CHILLED WATER SUPPLY	MAV MANUAL AIR VENT	
CHR CHILLED WATER RETURN	MBH 1000 BTUH	
CI CAST IRON	MED MEDICAL	
CO CLEANOUT	MER MECHANICAL EQUIPMENT ROOM	
CS CLINICAL SINK	MH MANHOLE	
CV CONTROL VALVE	MOU MEMORANDUM OF UNDERSTANDING	
	MSB MOP SERVICE BASIN	
	MV MEDICAL VACUUM	
DCW DOMESTIC COLD WATER	N2 NITROGEN	
DHW DOMESTIC HOT WATER	N2O NITROUS OXIDE	
DHWR DOMESTIC HOT WATER RETURN	NC NORMALLY CLOSED	
DHWR DOMESTIC WATER RETURN	NG NATURAL GAS	
DHWS DOMESTIC HOT WATER SUPPLY	NIC NOT IN CONTRACT	
DI DEIONIZED WATER	NO NORMALLY OPEN	
DN DOWN	NOM NOM	
DOE DEPARTMENT OF ENERGY	NPW NON POTABLE WATER	
DS DOWNSPOUT	NTS NOT TO SCALE	
DW DISHWASHER	O2 OXYGEN	
DWG DRAWING	OC ON CENTER	
DWH DOMESTIC WATER HEATER	OD OUTSIDE DIAMETER	
DWR DRINKING WATER RETURN	OFD OVERFLOW DRAIN	
DWS DRINKING WATER SUPPLY	OR OPERATING ROOM	
DWV DRAIN WASTE VENT	OVFL OVERFLOW	
EL ELEVATION	PA PASCAL	
EMCS ENERGY MANAGEMENT AND CENTRAL SYSTEM	PD PRESSURE DROP OR DIFFERENCE	
EPA ENVIRONMENTAL PROTECTION AGENCY	PDI PLUMBING AND DRAINAGE INSTITUTE	
EPACT ENERGY POLICY ACT	PG PRESSURE GAGE	
ESC ESCUTCHEON	PF PLUMBING FUMP	
ESH EMERGENCY SHOWER	PFM PARTS PER MILLION	
ET EXPANSION TANK	PRS PRESSURE REDUCING STATION	
EWC ELECTRIC WATER COOLER	PRV PRESSURE REDUCING VALVE	
EWB ELECTRIC WATER HEATER	PSI POUNDS PER SQUARE INCH	
EWS EYE WASH STATION	PSIA POUNDS PER SQUARE INCH ATMOSPHERE	
EX EXISTING	PSIG POUNDS PER SQUARE INCH GALUGE	
	PTRV PRESSURE TEMPERATURE RELIEF VALVE	
	PW POTABLE WATER	
F FAHRENHEIT	RD ROOF DRAIN	
FCO FLOOR CLEANOUT	RDL ROOF DRAIN LEADER	
FCW FILTERED COLD WATER	RL ROOF LEADER	
FD FLOOR DRAIN	RO REVERSE OSMOSIS WATER	
FDC FIRE DEPARTMENT CONNECTION	RPPBFP REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER	
FM FLOW METER	RWL RAIN WATER LEADER	
FOP FUEL OIL PUMP	SAN SANITARY SEWER	
FOR FUEL OIL RETURN	SMAcNA SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION	
FOS FUEL OIL SUPPLY	SCFM STANDARD CUBIC FOOT/MINUTE	
FOV FUEL OIL VENT	SCW SOFTENED COLD WATER	
FS FLOOR SINK	SDMH STORM DRAIN MANHOLE	
FS FLOW SWITCH	SP SUMP PUMP	
FU FIXTURE UNITS	SPR SPRINKLER LINE	
FWPD FEEDWATER PUMP DISCHARGE	SQFT SQUARE FEET	
FWPS FEEDWATER PUMP SUCTION	SS STAINLESS STEEL	
GAL GALLON	ST STORAGE TANK	
GCO GRADE CLEANOUTS	SW STORM WATER	
GH HOT GLYCOL-WATER HEATING SUPPLY	TCV TEMPERATURE CONTROL VALVE	
GHR HOT GLYCOL-WATER HEATING RETURN	TD TEMPERATURE DIFFERENCE	
GPD GALLONS PER DAY	TD TRENCH DRAIN	
GPH GALLONS PER HOUR	TDH TOTAL DYNAMIC HEAD	
GPM GALLONS PER MINUTE	TEMP TEMPERATURE	
GPR GAS PRESSURE REGULATOR	TMV THERMOSTATIC MIXING VALVE	
GRS GAS REGULATOR STATION	TP TRAP PRIMER	
GT GREASE TRAP	TSTAT THERMOSTAT	
G/TR GAS VENT THROUGH ROOF	TWR TEMPERED WATER RETURN	
GWH GAS FIRED WATER HEATER	TWS TEMPERED WATER SUPPLY	
	TYP TYPICAL	
H&CW HOT AND COLD WATER	UPC UNIFORM PLUMBING CODE	
HB HOSE BIBB		
HD HUB DRAIN		
HEX HEAT EXCHANGER		
HP HORSEPOWER		
HS HAND SINK		
HST HOT WATER STORAGE TANK (DOMESTIC)		
HWB HOT WATER BOILER		
HWCP HOT WATER CIRCULATING PUMP		
HWP HOT WATER PUMP		
HYD HYDRANT		

PLUMBING PIPING SYMBOLS

	DOMESTIC COLD WATER, COLD WATER
	DOMESTIC HOT WATER, HOT WATER
	DOMESTIC HOT WATER RETURN, HOT WATER RETURN
	DRAIN
	SANITARY SEWER
	SANITARY SEWER (OPTIONAL)
	SANITARY SEWER, BELOW GRADE
	SANITARY VENT
	NATURAL GAS
	WASTE
	WATER CLOSET
	WALL CLEANOUT
	WATER GAGE
	WALL HYDRANT
	WATER HEATER
	WATER HAMMER ARRESTER
	WATER LINE
	WATER METER
	WATER PRESSURE DROP
	WASTE STACK
	YARD CLEANOUT
	YARD HYDRANT

GENERAL PLUMBING SYMBOLS

	DIRECTION OF PIPE PITCH (DOWN)
	DIRECTION OF FLOW
	ANCHOR
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	TOP CONNECTION, 45° OR 90°
	BOTTOM CONNECTION, 45° OR 90°
	SIDE CONNECTION
	CAPPED OUTLET
	RISE OR DROP IN PIPE
	UNION
	PIPE UP
	PIPE DOWN
	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
	LIMIT OF DEMOLITION
	INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES
	FLOAT & THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES
	STRAINER
	THERMOMETER
	PRESSURE GAGE
	FLOW ELEMENT
	CLEAN OUT
	HOSE BIB

PLUMBING VALVE SYMBOLS

	GATE VALVE
	GLOBE VALVE
	GATE VALVE WITH 3/4" HOSE ADAPTER
	CHECK VALVE
	ANGLE GLOBE VALVE
	BUTTERFLY VALVE
	BALL VALVE
	MODULATING CONTROL VALVE
	TWO POSITION CONTROL VALVE
	THREE-WAY MODULATING CONTROL VALVE
	THREE-WAY TWO POSITION CONTROL VALVE
	PRESSURE REGULATING VALVE
	AUTOMATIC FLOW CONTROL VALVE
	PRESSURE RELIEF VALVE
	MANUAL AIR VENT
	TEST PLUG (PRESSURE/TEMPERATURE)
	AUTOMATIC AIR VENT
	PLUG VALVE

DRAWING SYMBOLS

	DETAIL NUMBER
	DRAWING NUMBER WHERE DRAWN
	SECTION LETTER
	DRAWING NUMBER WHERE SHOWN
	BUILDING NO. WHERE EQUIPMENT IS LOCATED.
	EQUIPMENT ABBREVIATION (PUMP)
	PUMP NO. 3 IN BUILDING NO. 26
	TYPICAL UNIT NO.

DEDUCTIVE ALTERNATES

DEDUCT	ALTERNATE
1	Delete one elevator (shaft to remain)
2	Delete the generator
3	Delete the glazing and HVAC components from the overhead connector
4	Delete Terazzo tile from floors and walls of corridors & lobbies
5	Use storefront windows in lieu of curtain wall
6	Paint in lieu of tile
7	Delete the penthouse structure
8	Fixed furnishings in lieu of Herman Miller
9	Use T5 28 watt lighting in lieu of LED lighting
10	Use stucco in lieu of brick
11	Delete the entire overhead connector

REFER TO SPECIFICATIONS AND OTHER DISCIPLINES FOR ADDITIONAL INFORMATION WITH RESPECT TO DEDUCTIVE ALTERNATES.

100% CONSTRUCTION DOCUMENTS

CONSULTANTS  <b>ROWE PROFESSIONAL SERVICES COMPANY</b> Engineering • Surveying • Aerial Photography / Mapping Landscape Architecture • Planning 511 Broadway Street, Myrtle Beach, SC 29577 Tel: 843.444.1020 www.roweps.com Fax: 843.444.3934	 CHRIS R. CLARK ARCHITECT/ENGINEER 585 Myrtle Beach, SC 29577	<b>ARCHITECT/ENGINEERS:</b>  100 Abernathy Road NE, Suite 900 400 Northchase Tower Center Atlanta, Georgia 30328 Tel: 404.808.6800		Drawing Title <b>SYMBOLS, LEGENDS AND ABBREVIATIONS</b>		Project Title <b>CONSTRUCT CLINIC ADDITION TRACK 3 CLINIC BUILD</b>		Project Number <b>544-302</b>		Office of Facilities Management 
		Approved: Project Director		Location <b>WJBD VA MEDICAL CENTER COLUMBIA, SC 29209</b>		Building Number <b>122</b>		Drawing Number <b>PL-001</b>		
Revisions:	Dates:	 1101 Johnson Avenue, Suite 104 Myrtle Beach, SC 29577 843.712.1470 Accord Architects & Engineers		Date <b>07/30/15</b>		Checked <b>BMS</b>		Drawn <b>BJO</b>		

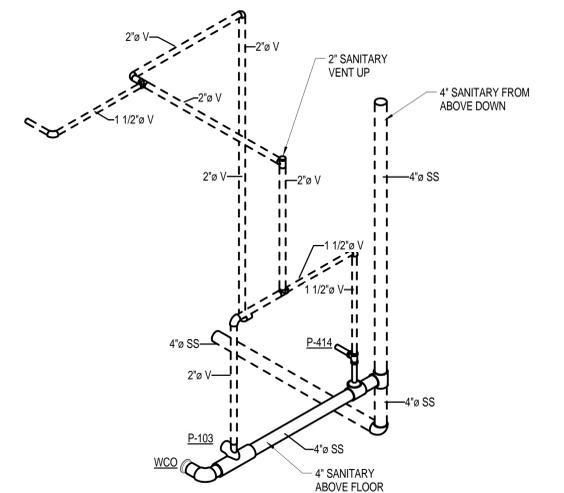
**GENERAL NOTES**

1. PROVIDE ALL NECESSARY PIPE, FITTINGS AND TRANSITIONS TO CONNECT TO EQUIPMENT AND FIXTURES.
2. VERIFY ALL SIZES WITH MANUFACTURER'S INSTALLATION LITERATURE.
3. REFER TO PLUMBING SCHEDULE FOR EQUIPMENT IDENTIFICATION.
4. CORE DRILL SLAB AND WALL AS NECESSARY. COORDINATE WITH STRUCTURAL ENGINEERS. PROVIDE SLEEVES AT ALL PENETRATIONS; FIRESTOP AT FIRE PARTITIONS.
5. PROVIDE BALANCING VALVES FOR SERVICE LINES AT ALL EQUIPMENT.
6. PROVIDE CLEARANCES FOR ALL MAINTENANCE, INSPECTION AND OR REMOVAL.
7. PROVIDE INDIRECT WASTE DRAIN AIR GAPS AS DESIGNATED PER EQUIPMENT DRAINAGE REQUIREMENTS. MINIMUM AIR GAPS SHALL BE 2 PIPE DIAMETERS.
8. PROVIDE ACCESS PANELS AT ALL CONCEALED AREAS. PROVIDE PIPING ENCLOSURES AT ALL FINISHED AREAS.
9. ALL PIPING SHALL BE CONCEALED; LOCATE ABOVE CEILING OR IN WALL CAVITY BUILD OUT.
10. OFFSET OF PIPING INSTALLATIONS MAY BE REQUIRED, BUT NOT SHOWN IN ALL OCCURRENCES.
11. DO NOT EXCEED MINIMUM DISTANCE REQUIREMENTS FOR ELBOW AND TRANSITIONS LOCATIONS FROM EQUIPMENT.
12. PROVIDE ESCUTCHEON PLATES ON PIPE PENETRATIONS AT ALL FINISHED AREAS.
13. DRAWINGS ARE SCHEMATIC IN NATURE.

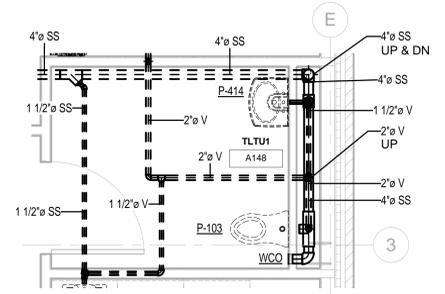
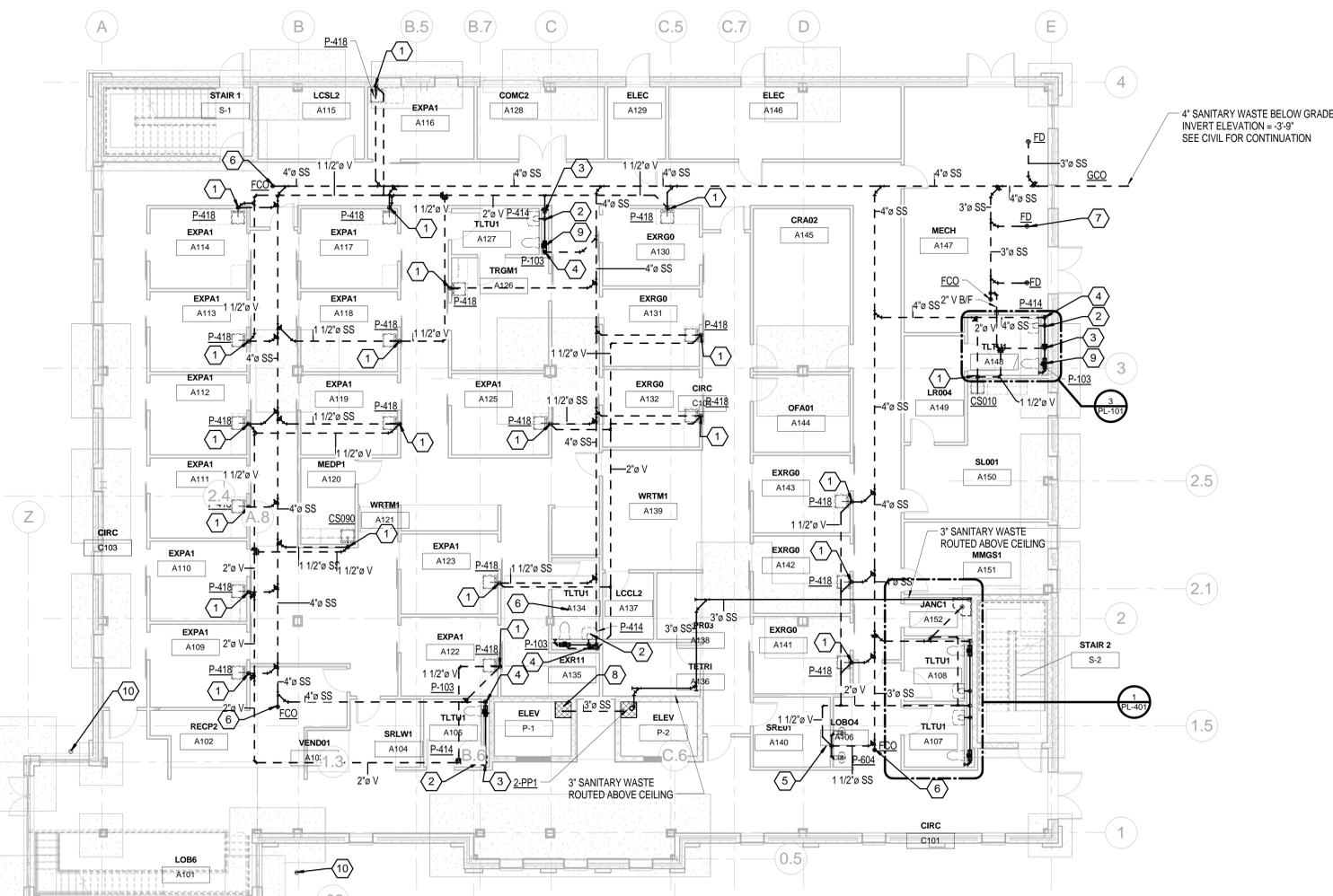
**KEY NOTES**

1. ROUTE NEW 1-1/2" WASTE FROM SINK P-TRAP DOWN BELOW FLOOR. ROUTE 1-1/2" VENT UP.
2. ROUTE NEW 1-1/2" WASTE FROM LAVATORY P-TRAP DOWN ABOVE FLOOR. ROUTE 1-1/2" VENT UP.
3. ROUTE 2" VENT UP.
4. ROUTE 4" WASTE DOWN BELOW FLOOR. ROUTE 2" VENT UP.
5. ROUTE 1-1/2" WASTE FROM P-TRAP OF DRINKING FOUNTAIN DOWN BELOW FLOOR. ROUTE 1-1/2" VENT UP.
6. PROVIDE FLOOR CLEANOUT. ROUTE WASTE PIPING BELOW FLOOR.
7. PROVIDE FLOOR DRAIN. ROUTE WASTE FROM FLOOR DRAIN P-TRAP BELOW FLOOR.
8. PROVIDE 3" FLOOR DRAIN IN SUMP PIT.
9. ROUTE 4" WASTE FROM WATER CLOSET ABOVE FLOOR. ROUTE 2" VENT UP.
10. ROUTE 3" STORM DOWN TO ABOVE GRADE AND PROVIDE SPLASH BLOCKS.

**3 TYPICAL RISER AT CHASE**  
3/8" = 1'-0"

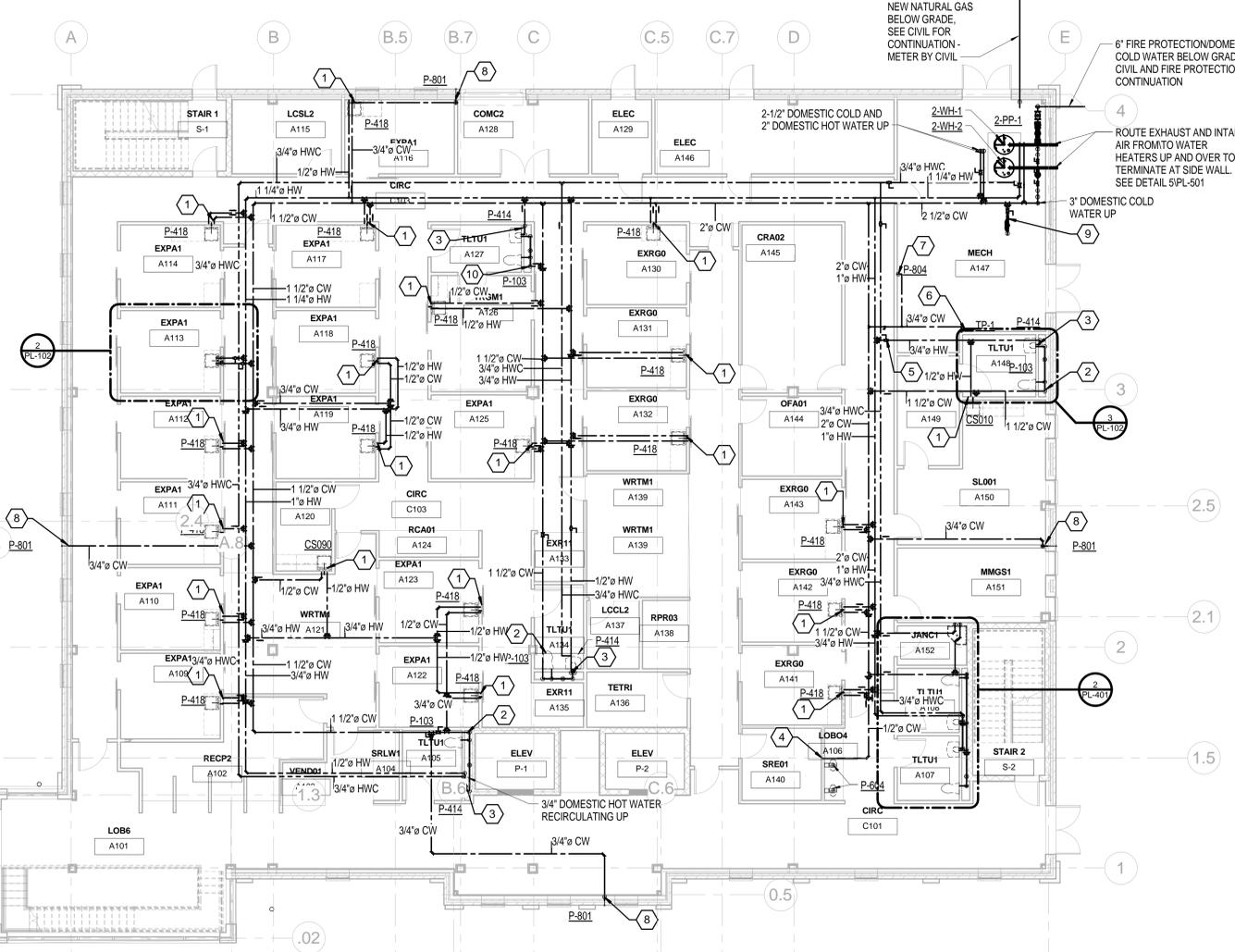


**1 FIRST FLOOR PLAN - PLUMBING - SANITARY WASTE AND VENT**  
1/8" = 1'-0"



**100% CONSTRUCTION DOCUMENTS**

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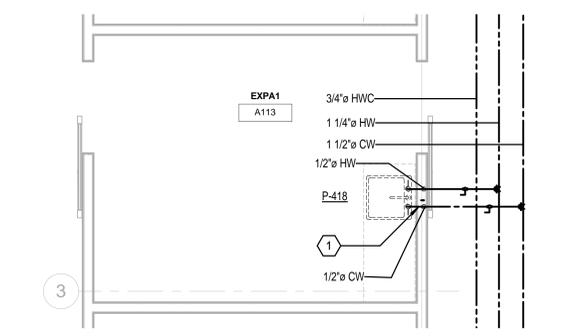


**KEY NOTES**

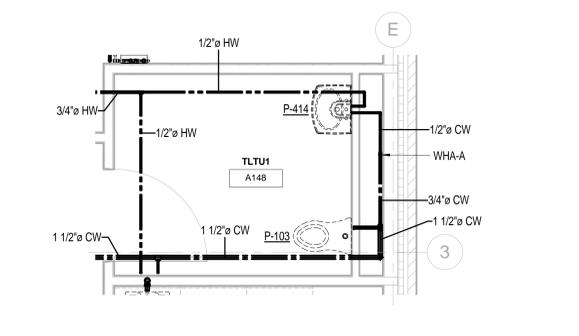
1. ROUTE NEW 1/2" DOMESTIC COLD AND HOT WATER DOWN TO SINK FAUCET. PROVIDE STOPS AND SUPPLIES FOR FAUCET.
2. ROUTE 1-1/2" DOMESTIC COLD WATER DOWN. ROUTE 1" DOMESTIC COLD WATER TO INLET OF WATER CLOSET ABOVE FLOOR. ROUTE 1/2" DOMESTIC COLD WATER ABOVE FLOOR TO LAVATORY FAUCET. PROVIDE STOPS AND SUPPLIES FOR FAUCET. PROVIDE WATER HAMMER ARRESTOR (WHA-"A") PER THE PLUMBING AND DRAINAGE INSTITUTE WITH ACCESS PANEL.
3. ROUTE 1/2" DOMESTIC HOT WATER DOWN. ROUTE 1/2" DOMESTIC HOT WATER ABOVE FLOOR TO LAVATORY FAUCET. PROVIDE STOPS AND SUPPLIES FOR FAUCET.
4. ROUTE NEW 1/2" DOMESTIC COLD WATER DOWN TO DRINKING FOUNTAIN. PROVIDE INLINE FILTER WITH ACCESS PANEL FOR DRINKING FOUNTAIN.
5. PROVIDE ISOLATION VALVES WITH ACCESS PANELS WHERE CEILING IS ACCESSIBLE (TYPICAL).
6. ROUTE 3/4" DOMESTIC COLD WATER DOWN TO ELECTRONIC TRAP PRIMER UNIT (TP-1). ROUTE 1/2" DOMESTIC COLD WATER DOWN BELOW SLAB TO EACH FLOOR DRAIN TRAP PRIMER CONNECTION.
7. ROUTE 3/4" DOMESTIC COLD WATER DOWN TO HOSE BIBB.
8. ROUTE 3/4" DOMESTIC COLD WATER DOWN TO NON-FREEZE WALL HYDRANT. WALL HYDRANT TO BE MOUNTED 18" ABOVE GRADE.
9. ROUTE 1-1/2" DOMESTIC COLD WATER DOWN TO MECHANICAL EQUIPMENT MAKE-UP WATER. PROVIDE BACKFLOW PREVENTER.
10. ROUTE 1-1/2" DOMESTIC COLD WATER DOWN. ROUTE 3/4" DOMESTIC COLD WATER UP. ROUTE 1" DOMESTIC COLD WATER TO INLET OF WATER CLOSET ABOVE FLOOR. ROUTE 1/2" DOMESTIC COLD WATER ABOVE FLOOR TO LAVATORY FAUCET. PROVIDE STOPS AND SUPPLIES FOR FAUCET. PROVIDE WATER HAMMER ARRESTOR (WHA-"A") PER THE PLUMBING AND DRAINAGE INSTITUTE WITH ACCESS PANEL.

**GENERAL NOTES**

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2. VERIFY ALL SIZES WITH MANUFACTURER'S INSTALLATION LITERATURE.
3. REFER TO PLUMBING SCHEDULE FOR EQUIPMENT IDENTIFICATION.
4. CORE DRILL SLAB AND WALL AS NECESSARY. COORDINATE WITH STRUCTURAL ENGINEERS. PROVIDE SLEEVES AT ALL PENETRATIONS; FIRESTOP AT FIRE PARTITIONS.
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10. OFFSET OF PIPING INSTALLATIONS MAY BE REQUIRED, BUT NOT SHOWN IN ALL OCCURRENCES.
11. DO NOT EXCEED MINIMUM DISTANCE REQUIREMENTS FOR ELBOW AND TRANSITIONS LOCATIONS FROM EQUIPMENT.
12. PROVIDE ESCUTCHEON PLATES ON PIPE PENETRATIONS AT ALL FINISHED AREAS.
13. DRAWINGS ARE SCHEMATIC IN NATURE.



2 ENLARGED SCALE - TYPICAL EXAM ROOM  
3/8" = 1'-0"



3 TYPICAL DOMESTIC WATER RISER AT CHASE  
3/8" = 1'-0"

1 FIRST FLOOR PLAN - DOMESTIC WATER AND GAS  
1/8" = 1'-0"

**100% CONSTRUCTION DOCUMENTS**

Revisions:	Dates:

CONSULTANTS

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Accord Architects & Engineers

Drawing Title	Project Title
FIRST FLOOR PLAN - PLUMBING - DOMESTIC WATER AND GAS	CONSTRUCT CLINIC ADDITION TRACK 3 CLINIC BUILD
Approved: Project Director	Location
	WJBD VA MEDICAL CENTER COLUMBIA, SC 29209
Date	Checked
07/30/15	BMS
	Drawn
	BUO

Project Number	544-302
Building Number	122
Drawing Number	PL-102

Office of Facilities Management

Department of Veterans Affairs

7/29/2015 2:36:03 PM

**GENERAL NOTES**

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2. ROUTE NEW 1-1/2" WASTE FROM LAVATORY P-TRAP DOWN BELOW FLOOR. ROUTE 1-1/2" VENT UP.
3. ROUTE 1-1/2" WASTE FROM P-TRAP OF LAVATORY ABOVE FLOOR AND DOWN. ROUTE 1-1/2" VENT UP.
4. ROUTE 4" WASTE DOWN BELOW FLOOR.  
ROUTE 2" VENT UP TO 3" VENT THRU ROOF.
5. PROVIDE WALL CLEANOUT WITH ACCESS PANEL.
6. ROUTE 1-1/2" WASTE FROM P-TRAP OF DRINKING FOUNTAIN DOWN BELOW FLOOR. ROUTE 1-1/2" VENT UP.
7. ROUTE 4" WASTE FROM WATER CLOSET ABOVE FLOOR. ROUTE 2" VENT UP.
8. ROUTE 3" WASTE FROM ABOVE DOWN. ROUTE 4" WASTE DOWN BELOW FLOOR.
9. ROUTE 3" STORM DOWN CLOSE TO BUILDING.
10. ROUTE 3" STORM DOWN CLOSE TO BUILDING.

**DEDUCT #7**

**DEDUCT #11**

**DEDUCT #7**

**1 SECOND FLOOR PLAN - PLUMBING - SANITARY WASTE AND VENT**  
1/8" = 1'-0"

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Accord Architects & Engineers



Drawing Title	Project Title	Project Number
SECOND FLOOR PLAN - PLUMBING - SANITARY WASTE AND VENT	CONSTRUCT CLINIC ADDITION TRACK 3 CLINIC BUILD	544-302
Approved: Project Director	Location	Building Number
	WJBD VA MEDICAL CENTER COLUMBIA, SC 29209	122
	Date	Checked
	07/30/15	BMS
		Drawn
		BJO
		Drawing Number
		PL-103

**Office of Facilities Management**

Department of Veterans Affairs

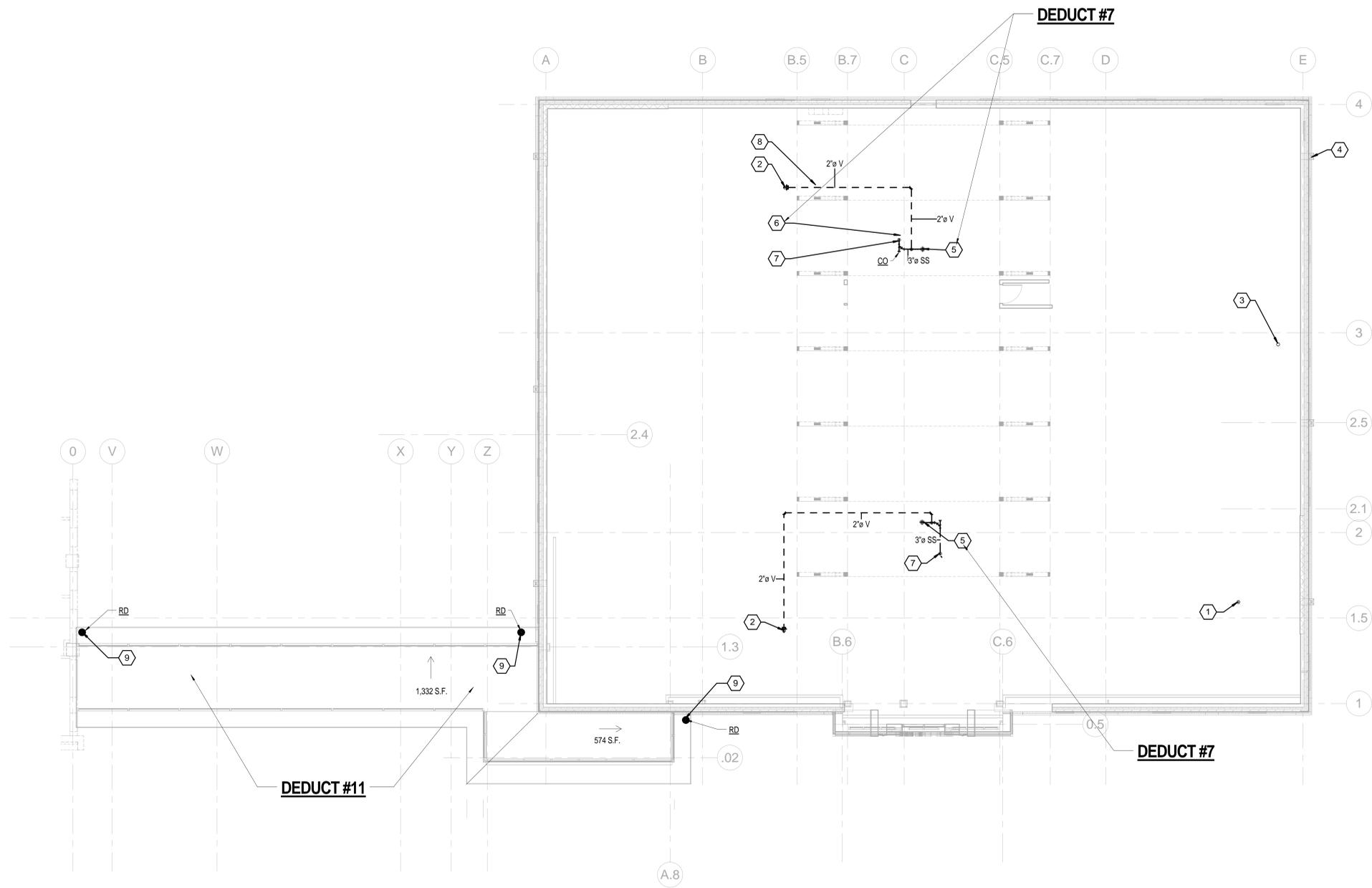


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5. PROVIDE BALANCING VALVES FOR SERVICE LINES AT ALL EQUIPMENT.
6. PROVIDE CLEARANCES FOR ALL MAINTENANCE, INSPECTION AND OR REMOVAL.
7. PROVIDE INDIRECT WASTE DRAIN AIR GAPS AS DESIGNATED PER EQUIPMENT DRAINAGE REQUIREMENTS. MINIMUM AIR GAPS SHALL BE 2 PIPE DIAMETERS.
8. PROVIDE ACCESS PANELS AT ALL CONCEALED AREAS. PROVIDE PIPING ENCLOSURES AT ALL FINISHED AREAS.
9. ALL PIPING SHALL BE CONCEALED; LOCATE ABOVE CEILING OR IN WALL CAVITY BUILD OUT.
10. OFFSET OF PIPING INSTALLATIONS MAY BE REQUIRED, BUT NOT SHOWN IN ALL OCCURRENCES.
11. DO NOT EXCEED MINIMUM DISTANCE REQUIREMENTS FOR ELBOW AND TRANSITIONS LOCATIONS FROM EQUIPMENT.
12. PROVIDE ESCUTCHEON PLATES ON PIPE PENETRATIONS AT ALL FINISHED AREAS.
13. DRAWINGS ARE SCHEMATIC IN NATURE.

**KEY NOTES**

1. 4" VENT THRU ROOF.
2. 3" VENT THRU ROOF.
3. 3" VENT THRU ROOF, OFFSET PIPING AS SHOWN.
4. ROOF SCUPPER (TYP.), SEE ARCHITECTURAL FOR EXACT LOCATION.
5. PROVIDE FLOOR DRAIN, ROUTE WASTE FROM FLOOR DRAIN P-TRAP BELOW FLOOR. PROVIDE MECHANICAL TRAP GUARD. SEE DETAIL 12/PL-501.
6. ROUTE 3/4" DOMESTIC COLD WATER UP TO HOSE BIBB. (ISOLATION VALVE IN VERTICAL RISER)
7. ROUTE 3" SANITARY DOWN.
8. ROUTE 2" VENT BELOW FLOOR.
9. ROOF DRAIN (TYP. OF 3), SEE ARCHITECTURAL FOR EXACT LOCATION.



**1 ROOF PLAN**  
1/8" = 1'-0"

**100% CONSTRUCTION DOCUMENTS**

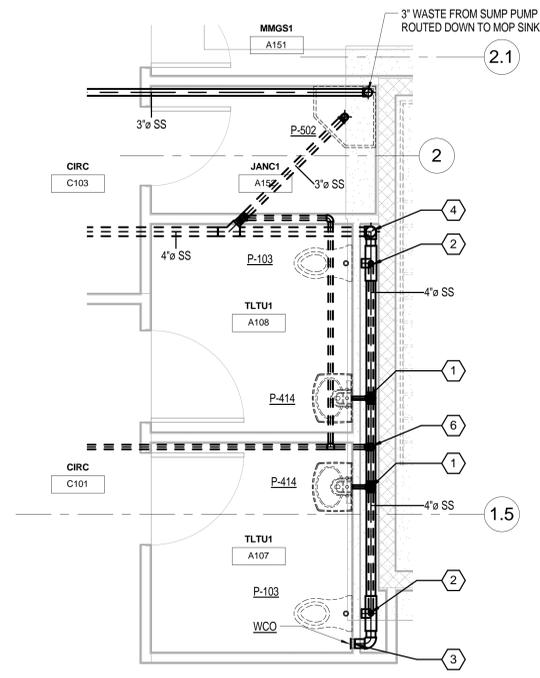
CONSULTANTS:  <b>ROWE PROFESSIONAL SERVICES COMPANY</b> Engineering • Surveying • Aerial Photography / Mapping Landscape Architecture • Planning 511 Broadway Street, Myrtle Beach, SC 29577 Tel: 843.444.1020 www.roweps.com Fax: 843.444.3934	 <b>CHRIS R. CLARK</b> ENGINEER STATE OF SOUTH CAROLINA LICENSE NO. 5965	<b>ARCHITECT/ENGINEERS:</b>  100 Abernethy Road NE, Suite 900 400 Northpark Tower Center Atlanta, Georgia 30328 Tel: 404.850.8600   1101 Johnson Avenue, Suite 104 Myrtle Beach, SC 29577 843.712.1470 Accord Architects & Engineers	Drawing Title <b>ROOF PLAN - PLUMBING</b>	Project Title <b>CONSTRUCT CLINIC                  ADDITION TRACK 3 CLINIC                  BUILD</b>	Project Number <b>544-302</b>
			Approved: Project Director	Location <b>WJBD VA MEDICAL CENTER                  COLUMBIA, SC 29209</b>	Building Number <b>122</b>
Revisions:	Dates:	Date <b>07/30/15</b>	Checked <b>BMS</b>	Drawn <b>BJO</b>	 <b>Office of                  Facilities                  Management</b> Department of Veterans Affairs

**GENERAL NOTES**

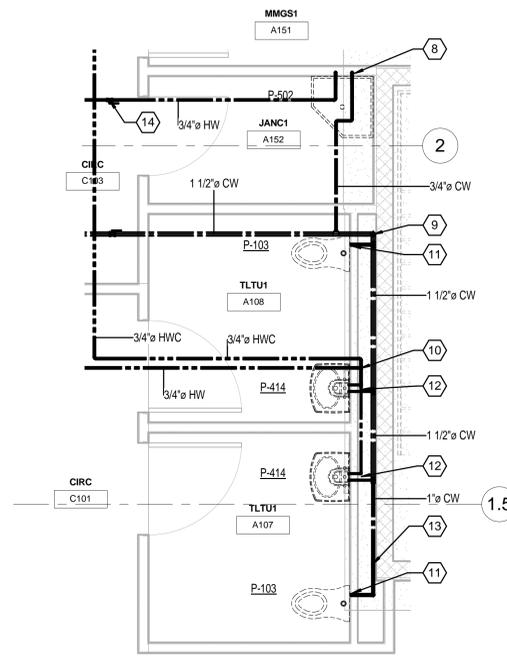
1. PROVIDE ALL NECESSARY PIPE, FITTINGS AND TRANSITIONS TO CONNECT TO EQUIPMENT AND FIXTURES.
2. VERIFY ALL SIZES WITH MANUFACTURER'S INSTALLATION LITERATURE.
3. REFER TO PLUMBING SCHEDULE FOR EQUIPMENT IDENTIFICATION.
4. CORE DRILL SLAB AND WALL AS NECESSARY. COORDINATE WITH STRUCTURAL ENGINEERS. PROVIDE SLEEVES AT ALL PENETRATIONS; FIRESTOP AT FIRE PARTITIONS.
5. PROVIDE BALANCING VALVES FOR SERVICE LINES AT ALL EQUIPMENT.
6. PROVIDE CLEARANCES FOR ALL MAINTENANCE, INSPECTION AND OR REMOVAL.
7. PROVIDE INDIRECT WASTE DRAIN AIR GAPS AS DESIGNATED PER EQUIPMENT DRAINAGE REQUIREMENTS. MINIMUM AIR GAPS SHALL BE 2 PIPE DIAMETERS.
8. PROVIDE ACCESS PANELS AT ALL CONCEALED AREAS. PROVIDE PIPING ENCLOSURES AT ALL FINISHED AREAS.
9. ALL PIPING SHALL BE CONCEALED; LOCATE ABOVE CEILING OR IN WALL CAVITY BUILD OUT.
10. OFFSET OF PIPING INSTALLATIONS MAY BE REQUIRED, BUT NOT SHOWN IN ALL OCCURRENCES.
11. DO NOT EXCEED MINIMUM DISTANCE REQUIREMENTS FOR ELBOW AND TRANSITIONS LOCATIONS FROM EQUIPMENT.
12. PROVIDE ESCUTCHEON PLATES ON PIPE PENETRATIONS AT ALL FINISHED AREAS.
13. DRAWINGS ARE SCHEMATIC IN NATURE.

**KEY NOTES**

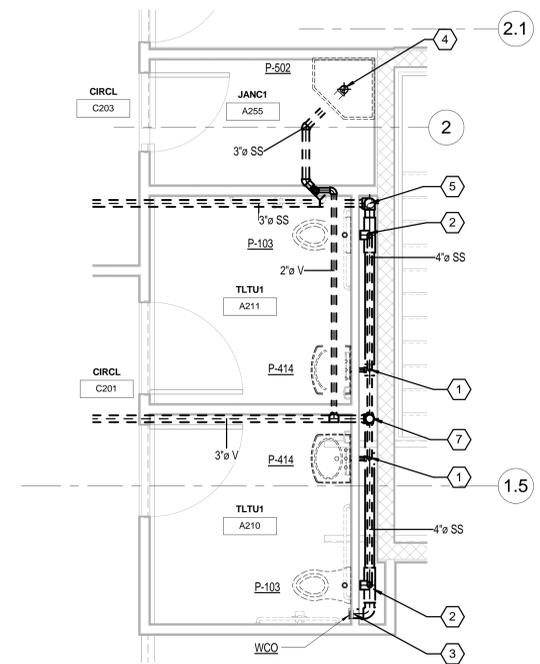
1. ROUTE NEW 1-1/2" WASTE FROM LAVATORY P-TRAP DOWN ABOVE FLOOR. ROUTE 1-1/2" VENT UP.
2. ROUTE 4" WASTE FROM WATER CLOSET ABOVE FLOOR. ROUTE 2" VENT UP.
3. PROVIDE WALL CLEANOUT.
4. ROUTE 3" SANITARY WASTE DOWN. ROUTE 2" WASTE UP.
5. ROUTE 4" WASTE DOWN BELOW FLOOR.
6. ROUTE 2" VENT UP.
7. ROUTE 3" VENT UP TO 4" VENT THRU ROOF.
8. ROUTE 3/4" DOMESTIC COLD AND HOT WATER DOWN TO MOP SINK FAUCET.
9. ROUTE 1-1/2" DOMESTIC COLD WATER DOWN.
10. ROUTE 1/2" DOMESTIC HOT WATER DOWN.
11. ROUTE 1" DOMESTIC COLD WATER ABOVE FLOOR TO INLET OF WATER CLOSET.
12. ROUTE 1/2" DOMESTIC COLD AND HOT WATER ABOVE FLOOR TO LAVATORY FAUCET. PROVIDE STOPS AND SUPPLIES FOR FAUCET.
13. PROVIDE WATER HAMMER ARRESTOR (WHA-"B") PER THE PLUMBING AND DRAINAGE INSTITUTE WITH ACCESS PANEL.
14. PROVIDE ISOLATION VALVES WITH ACCESS PANELS WHERE CEILING IS ACCESSIBLE (TYPICAL).



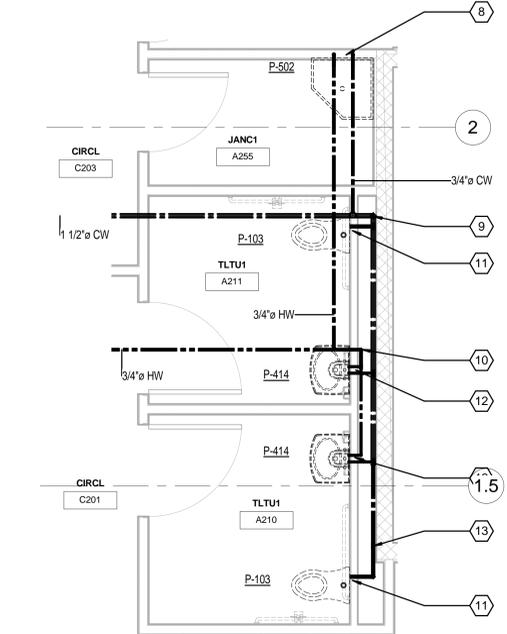
**1 FIRST FLOOR RESTROOM - SANITARY WASTE AND VENT**  
3/8" = 1'-0"



**2 FIRST FLOOR PLAN RESTROOM - DOMESTIC WATER**  
3/8" = 1'-0"



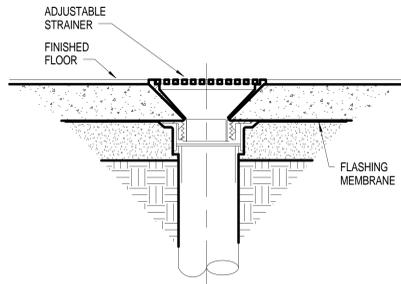
**3 SECOND FLOOR PLAN - SANITARY WASTE AND VENT**  
3/8" = 1'-0"



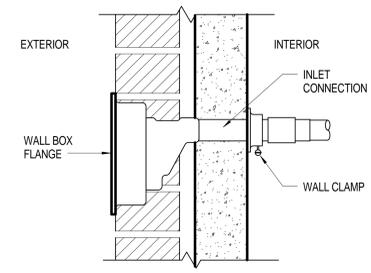
**4 SECOND FLOOR PLAN - PLUMBING - DOMESTIC WATER**  
3/8" = 1'-0"

**100% CONSTRUCTION DOCUMENTS**

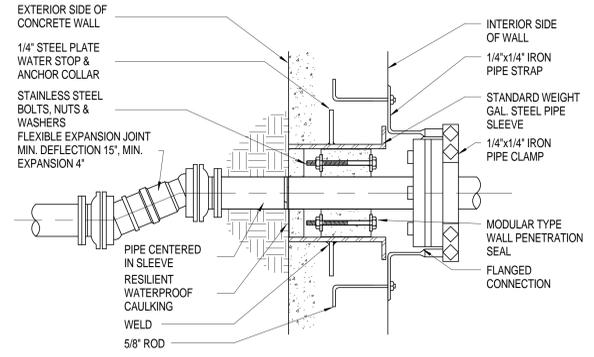
CONSULTANTS:  <b>ROWE PROFESSIONAL SERVICES COMPANY</b> Engineering • Surveying • Aerial Photography / Mapping Landscape Architecture • Planning 511 Broadway Street, Myrtle Beach, SC 29577 Tel: 843.444.1020 www.rowepsc.com Fax: 843.444.3934	 <b>CHRIS R. CLARK</b> ENGINEER	<b>ARCHITECT/ENGINEERS:</b>  1000 Abernathy Road NE, Suite 900 400 Northchase Tower Center Atlanta, Georgia 30328 Tel: 404.850.8600   1101 Johnson Avenue, Suite 104 Myrtle Beach, SC 29577 843.712.1470 Accord Architects & Engineers	Drawing Title <b>ENLARGED SCALE PLANS</b>	Project Title <b>CONSTRUCT CLINIC                  ADDITION TRACK 3 CLINIC                  BUILD</b>	Project Number <b>544-302</b>
			Approved: Project Director	Location <b>WJBD VA MEDICAL CENTER                  COLUMBIA, SC 29209</b>	Building Number <b>122</b>
Revisions:	Dates:	Date <b>07/30/15</b>	Checked <b>BMS</b>	Drawn <b>BJO</b>	 <b>Office of                  Facilities                  Management</b> Department of Veterans Affairs



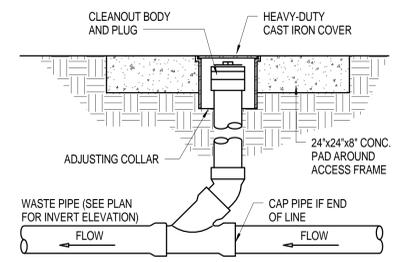
**1 FLOOR DRAIN**  
1/8" = 1'-0"



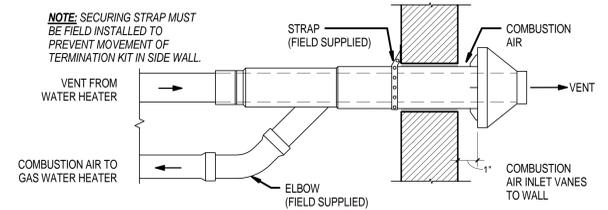
**2 WALL HYDRANT**  
3" = 1'-0"



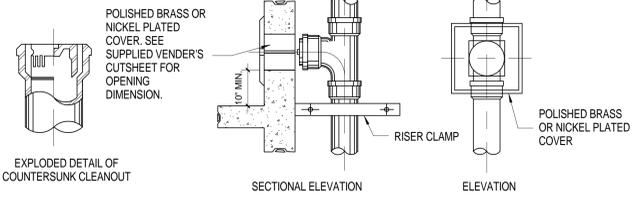
**3 PIPE PENETRATION THROUGH WALLS BELOW GRADE**  
1/2" = 1'-0"



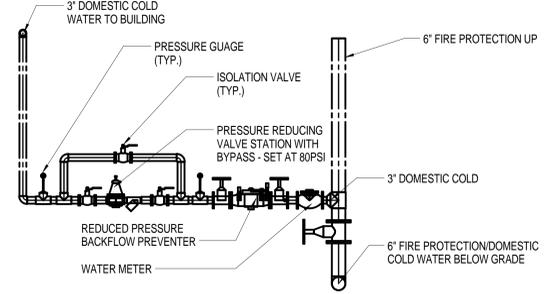
**4 GRADE CLEANOUT**  
12" = 1'-0"



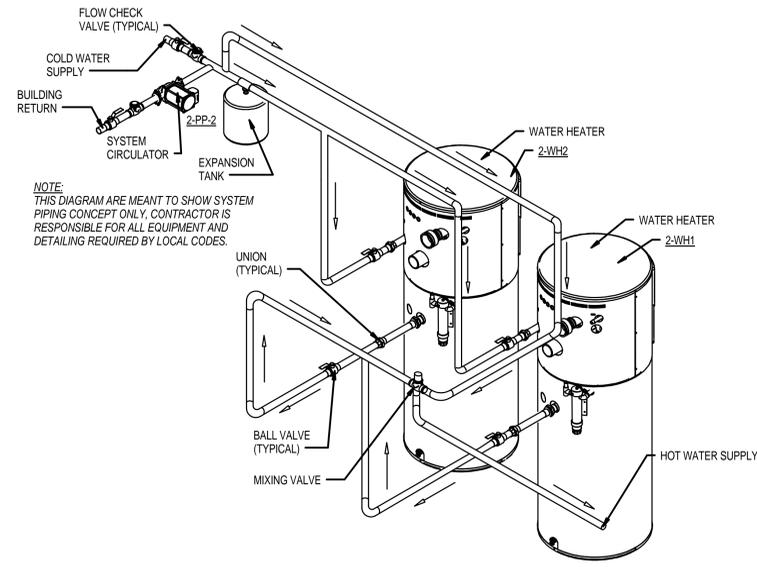
**5 CONCENTRIC VENT - SIDE WALL**  
3/16" = 1'-0"



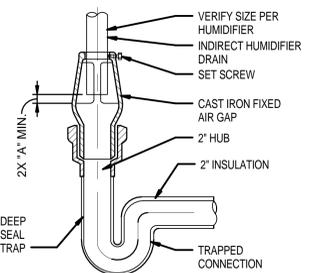
**6 FLOOR, WALL AND BASE CLEANOUT**  
3/8" = 1'-0"



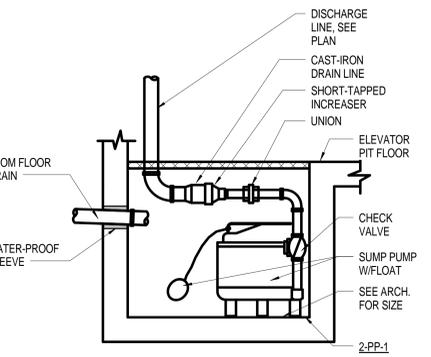
**7 WATER SERVICE ENTRANCE**  
3/16" = 1'-0"



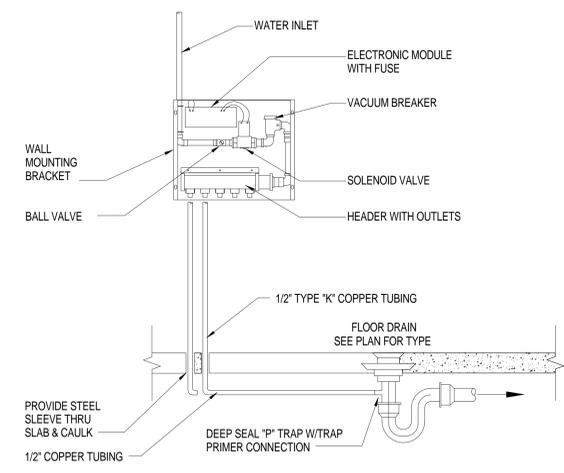
**8 GAS WATER HEATER - DOUBLE**  
3/16" = 1'-0"



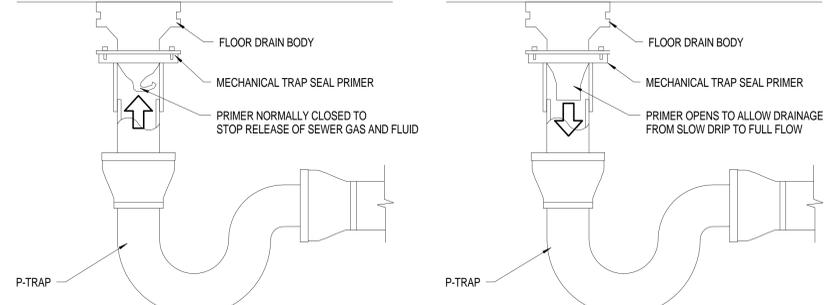
**9 FIXED AIR GAP**  
12" = 1'-0"



**10 ELEVATOR SUMP PUMP**  
1/8" = 1'-0"



**11 ELECTRONIC TRAP PRIMER**  
1/2" = 1'-0"



**12 MECHANICAL TRAP GUARD SYSTEM (PENTHOUSE LEVEL)**  
3/16" = 1'-0"

**100% CONSTRUCTION DOCUMENTS**

Revisions:	Dates:

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Accord Architects & Engineers

Drawing Title	Project Title	Project Number
DETAILS - PLUMBING	CONSTRUCT CLINIC ADDITION TRACK 3 CLINIC BUILD	544-302
Approved: Project Director	Location	Building Number
	WJBD VA MEDICAL CENTER COLUMBIA, SC 29209	122
	Date	Drawing Number
	07/30/15	PL-501
	Checked	Drawn
	BMS	BJO

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**PLUMBING FIXTURE SCHEDULE**

VA MARK	DESCRIPTION	WASTE PIPE	VENT PIPE	COLD WATER	HOT WATER	WASTE FIXTURE UNITS	WATER FIXTURE UNITS	WRIST BLADE HANDLES	ELECTRIC SENSOR	REMARKS
P-103	WATER CLOSET, WALL HUNG	4"	2"	1 1/4"		6	10	N/A	NO	WALL-HUNG, ELONGATED, VITREOUS CHINA, LOW CONSUMPTION - 1.28 GPF, SIPHON-JET ACTION WITH MANUAL FLUSH VALVE, WITH SEAT
P-414	LAVATORY, WALL HUNG	1-1/2"	1 1/2"	1/2"	1/2"	2	2	YES	NO	WALL-HUNG, VITREOUS CHINA, FRONT OVERFLOW, 4" CENTERS, WITH FAUCET - 0.5 GPM, VANDAL-RESISTANT WRIST BLADE HANDLES
P-418	SINK, SINGLE COMPARTMENT	1-1/2"	1 1/2"	1/2"	1/2"	2	2	YES	NO	SINGLE COMPARTMENT, DROP-IN, SELF-RIMMING, LEDGE-STYLE, 8" CENTERS, INTEGRAL BACK LEDGE, WITH MIXING FAUCET WITH 6" RIGID GOOSENECK SPOUT, ADA WRIST BLADE HANDLES
CS010	SINK, SINGLE COMPARTMENT	1-1/2"	1 1/2"	1/2"	1/2"	2	2	YES	NO	SINGLE COMPARTMENT, DROP-IN, SELF-RIMMING, LEDGE-STYLE, 8" CENTERS, INTEGRAL BACK LEDGE, WITH MIXING FAUCET WITH 6" RIGID GOOSENECK SPOUT, ADA WRIST BLADE HANDLES
CS090	SINK, SINGLE COMPARTMENT	1-1/2"	1 1/2"	1/2"	1/2"	2	2	YES	NO	SINGLE COMPARTMENT, DROP-IN, SELF-RIMMING, LEDGE-STYLE, 8" CENTERS, INTEGRAL BACK LEDGE, WITH MIXING FAUCET WITH 6" RIGID GOOSENECK SPOUT, ADA WRIST BLADE HANDLES
P-502	SINK SERVICE	3"	2"	3/4"	3/4"	3	4	N/A	NO	6" DROP AT THE THRESHOLD, WALL MOUNTED FAUCET WITH ADJUSTABLE WALL BRACE, VACUUM BREAKER, 3/4" HOSE THREAD ON SPOUT WITH BUCKET HOOK, 2.0 GPM
P-604	DRINKING FOUNTAIN	1 1/4"	1 1/4"	1/2"		1	1	N/A	NO	BARRIER-FREE, OVAL SHAPE, ONE PIECE CONSTRUCTION, STAINLESS STEEL WITH BRUSHED SATIN FINISH, WITH ANTI-SQUIRT BUBBLER FEATURE
P-801	WALL HYDRANT			3/4"			5	N/A	NO	ENCASED, NON-FREEZE ANTI-SIPHON, AUTOMATIC DRAINING, CERAMIC DISC, WITH INTEGRAL BACKFLOW PREVENTER, STAINLESS STEEL BOX WITH HINGED COVER AND OPERATING KEY LOCK
FD	FLOOR DRAIN	SEE PLAN						N/A	NO	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, SLOTTED CAST (DUCTILE) IRON, HEAVY DUTY STRAINER, WITH TRAP PRIMER CONNECTION
FCO	FLOOR CLEANOUT	SEE PLAN						N/A	NO	ADJUSTABLE LEVELING, DURA-COATED CAST IRON BODY, WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, ROUND SCORIATED SECURED LIGHT DUTY TOP
TP-1	TRAP PRIMER VALVE			3/4"				N/A	NO	FLOOR DRAIN TRAP PRIMER, SURFACE MOUNTED, ELECTRONIC 120V/1PH/60Hz
WCO	WALL CLEANOUT	SEE PLAN						N/A	NO	EPOXY COATED CAST IRON WITH CASKATED COVE, STAINLESS STEEL ACCESS COVER
GCO	GRADE CLEANOUT	SEE PLAN						N/A	NO	ADJUSTABLE ON-GRADE, DUCTILE IRON
RD	ROOF DRAIN	3"						N/A	NO	ULTRA LOW PROFILE, CAST IRON

**GAS FIRED WATER HEATER SCHEDULE**

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	TYPE	STORAGE CAPACITY GAL	RECOVERY @ 100 °F RISE GAL/HR	TIME TO RECOVER CONTENTS, MINUTES	RELIEF VALVE SETTING PSIG	FUEL			ELECTRICAL MOTOR			REMARKS
									TYPE	INLET PRESSURE IN WC	FLOW CFH	NOMINAL POWER, EA HP	PHASE	VOLT	
2-WH1	MECHANICAL ROOM A147	BUILDING	DOMESTIC HOT WATER	GAS FIRED	65	145	60	150	NATURAL GAS	4.0"	--	--	1	120	PROVIDE WITH THERMAL EXPANSION TANK, 4 GALLON CAPACITY
2-WH2	MECHANICAL ROOM A147	BUILDING	DOMESTIC HOT WATER	GAS FIRED	65	145	60	150	NATURAL GAS	4.0"	--	--	1	120	PROVIDE WITH THERMAL EXPANSION TANK, 4 GALLON CAPACITY

**PLUMBING PUMP SCHEDULE**

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	TYPE	CIRCULATING FLUID					ELECTRICAL MOTOR			REMARKS			
					FLUID	FLOW GPM	HEAD FT	NPSH AVAILABLE FT	TEMPERATURE °F	SP. GR.	MIN. % EFF.	NOMINAL POWER HP		PHASE	VOLT	
2-PP1	ELEVATOR P-2	ELEVATOR	WASTE/SANITARY	SIMPLEX	WATER	93	50	--	--	140	--	--	1/2	1	208	NOTE 1
2-PP2	MECHANICAL A147	BUILDING	DOMESTIC WATER	IN-LINE	WATER	2	5	--	--	--	--	--	1/40	1	115	--

NOTE: 1. PROVIDE OIL MINDER DETECTOR UNIT.

**WATER HAMMER ARRESTOR SCHEDULE**

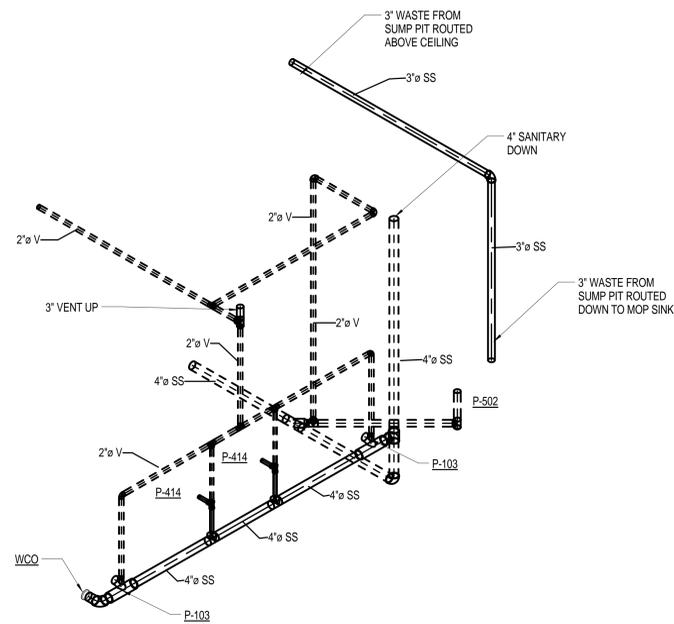
MARK	FIXTURE UNITS	PIPE SIZE	HEIGHT	DIAMETER	REMARKS
A	1 - 11	3/4 INCH	5-1/8 INCH	3-1/4 INCH	PLUMBING AND DRAINAGE INSTITUTE
B	12 - 32	1 INCH	6-1/8 INCH	3-1/4 INCH	PLUMBING AND DRAINAGE INSTITUTE

**100% CONSTRUCTION DOCUMENTS**

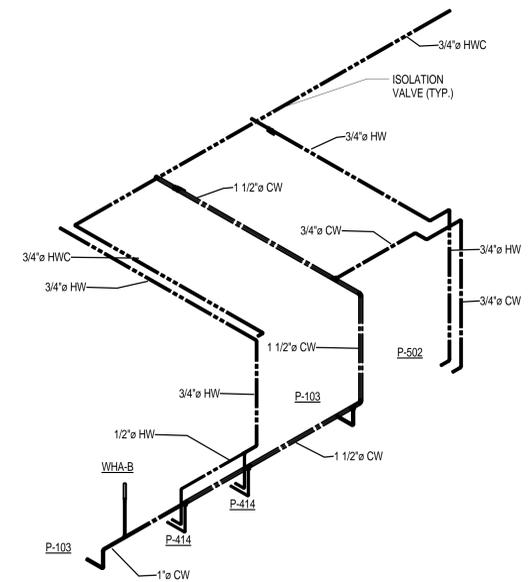
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		Approved: Project Director	Location <b>WJBD VA MEDICAL CENTER                  COLUMBIA, SC 29209</b>	Building Number <b>122</b>
Revisions:	Dates:	Date 07/30/15	Checked BMS	Drawn BJO



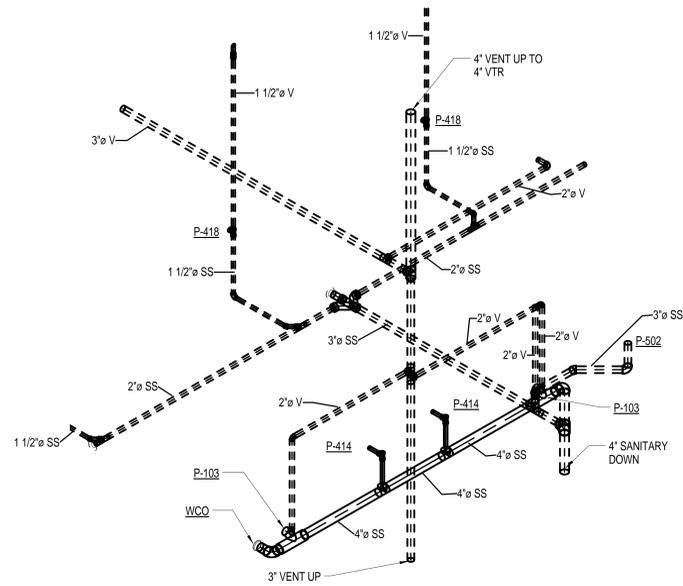
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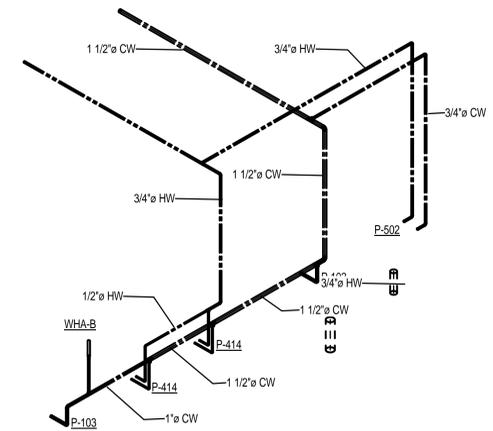
1 ENLARGED SCALE - FIRST FLOOR PLAN RESTROOM - SANITARY WASTE AND VENT



2 ENLARGED SCALE - FIRST FLOOR PLAN RESTROOM - DOMESTIC COLD WATER



3 ENLARGED SCALE - SECOND FLOOR PLAN - PLUMBING - SANITARY WASTE AND VENT



4 ENLARGED SCALE - SECOND FLOOR PLAN - PLUMBING - DOMESTIC WATER

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Drawing Title	Project Title
ISOMETRIC DIAGRAMS	CONSTRUCT CLINIC ADDITION TRACK 3 CLINIC BUILD
Approved: Project Director	Location
	WJBD VA MEDICAL CENTER COLUMBIA, SC 29209
Date	Checked
07/30/15	BMS
	Drawn
	BJO

Project Number	544-302
Building Number	122
Drawing Number	PL-610

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