ABBREVIATIONS

ABBREV	ABBREVIATION
ABD	ABANDONED
ABV	ABOVE
A/C	AIR CONDITIONING
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECT, ARCHITECTURAL
ARRG	ARRANGEMENT
AST	ABOCEGROUND STORAGE TANK
ATC	AUTOMATIC TEMPERATURE
ATM	ATMOSPHERE
AVG	AVERAGE
AWT	AVERAGE WATER TEMPERATURE
BAS	BUILDING AUTOMATION SYSTEM
BWV	BACK WATER VALVE
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOP	BOTTOM OF PIPE
BTM	BOTTOM
BTUH	BRITISH THERMAL UNITS PER HOUR
BFP	BACKFLOW PREVENTER
°C	DEGREES CELSIUS
CAV	CONSTANT AIR VOLUME
CC	COOLING COIL
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO	CLEANOUT / CARBON MONXIDE
COMP	COMPRESSED
CONC	CONCRETE
CONN	CONNECTION, CONNECT
CONT	CONTINUATION
CP	CONDENSATE PUMP
CRAC	COMPUTER ROOM AIR CONDITIONER
CU FT	CUBIC FEET
CX	CONNECT TO EXISTING
CW	DOMESTIC COLD WATER PIPE
D	DRAIN OR DEPTH
DBL	DOUBLE
DCP	DIGITAL CONTROL PANEL
DDC	DIRECT DIGITAL CONTROL
DESIG	DESIGNATION
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DN	DOWN
DW	DOMESTIC WATER
DWG	DRAWING
EFF	EFFICIENCY
EJ	EXPANSION JOINT
ELEC	ELECTRICAL, ELECTRIC
ELEV	ELEVATION OR ELEVATOR
EMD	END OF MAIN DRIP
ENT	ENTERING
ETC	ET CETERA
EW	EYE WASH
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
EXP	EXPOSED
°F	DEGREES FEHRENHEIT
F&T	FLOAT & THERMOSTATIC TRAP
FCU	FAN COOL UNIT
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FL	FLOOR
FND	FOUNDATION DRAINAGE
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOOR SINK
FT HD	FEET OF HEAD PRESSURE
GA	GAGE
GAL	GALLON
GALV	GALVANIZED
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HEIGHT
HED	HOSE AND DRAIN
HORIZ	HORIZONTAL
HP	HORSEPOWER
H.P.	HIGH PRESSURE
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HW	DOMESTIC HOT WATER PIPE
HWR	DOMESTIC HOT WATER RECIRCULATING
HZ	HERTZ
I.L.	INTERMEDIATE LANDING
IN	INCH OR INCHES
INV	INVERT ELEVATION
KVA	KILOVOLT AMPERES
KW	KILOWATT
L	LENGTH
LB(S)	POUND(S)
LF	LINEAR FEET
L.P.	LOW PRESSURE
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MECH	MECHANICAL
MBH	THOUSAND BTU'S PER HOUR
MFR	MANUFACTURER
MIN	MINIMUM
MO	MOTOR OPERATOR
MS	MOP SINK
MTD	MOUNTED
NAT	NATURAL
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NO.	NUMBER
OC	ON CENTER
OFD	OVERFLOW DRAIN
OS&Y	OUTSIDE SCREW AND YOKE
PD	PRESSURE DROP
PF	POWER FACTOR
PG	PROPYLENE GLYCOL
PH	PHASE
PLBG	PLUMBING
PPH	POUNDS PER HOUR (STEAM)
PPM	PARTS PER MILLION
PRESS.	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI(G)	POUNDS PER SQUARE INCH (GAGE)
PVC	POLYVINYLCHLORIDE
QTY	QUANTITY
R	RADIUS
RAD	RADIATED
RD	ROOF DRAIN
REQ'D	REQUIRED
RL	RAINLEADER
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
RX	REMOVE EXISTING
SF	SQUARE FEET
SH	SENSIBLE HEAT OR SHOWER
SPEC	SPECIFICATION/PROJECT MANUAL
SQ	SQUARE
SRD	SECONDARY (OVERFLOW) ROOF DRAIN
SRL	SECONDARY (OVERFLOW) RAIN LEADER
S/S	STAINLESS STEEL
STL	STEEL
STRUCT	STRUCTURAL
TEMP	TEMPERATURE
TH	TOTAL HEAT
TD	TRENCH DRAIN
TYP	TYPICAL
UON	UNLESS OTHERWISED NOTED
UST	UNDERGROUND STORAGE TANK
V	VOLTS
VA	VOLT AMPERES
VEL	VELOCITY
VFC	VARIABLE FREQUENCY CONTROLLER
VP	VENT PIPE
VTR	VENT THRU ROOF
W	WIDTH
WC	WATER COLUMN
W/	WITH
W/O	WITHOUT
WPD	WATER PRESSURE DROP

SYMBOLS

ø	DIAMETER
℄	CENTER LINE
	AREA DRAIN
	FLOOR DRAIN
	ROOF DRAIN/SECONDARY (OVERFLOW) ROOF DRAIN
	FLOOR SINK
	TRENCH DRAIN
XX.XX	INVERT ELEVATION
CO	CLEANOUT IN HORIZONTAL
CO	CLEANOUT IN VERTICAL
	DOMESTIC WATER BACKFLOW PREVENTER
	BACK WATER VALVE (ARROW INDICATES DIRECTION OF FLOW)
SA	SHOCK ABSORBER
HB	HOSE BIBB
WH	NON-FREEZE CONCEALED OUTLET WALL HYDRANT
TP	TRAP PRIMER PIPE
	TWO WAY CONTROL VALVE
	THREE WAY CONTROL VALVE
	FLOW SWITCH
	CURRENT SENSING RELAY
	MANUAL OVERRIDE SWITCH
	MAGNAHELIC PRESSURE GAGE
M	FLOW METER
	BOUNDARY LINE
SAN	SANITARY/WASTE PIPE
SAN (FOG)	FOOD, OIL, AND GREASE WASTE PIPE
AW	CHEMICAL RESISTANT WASTE PIPE
D	A/C CONDENSATE AND EQUIPMENT DRAIN PIPE
	VENT PIPE
CRV	CHEMICAL RESISTANT VENT PIPE
SW	STORM WATER PIPE
SSW	SECONDARY (OVERFLOW) STORM WATER PIPE
FND	FOUNDATION DRAIN PIPE
SANPD	SANITARY PUMPED DISCHARGE PIPE
SWPD	STORM WATER PUMPED DISCHARGE PIPE
	DOMESTIC COLD WATER PIPE
	DOMESTIC HOT WATER PIPE (TEMP. IF INDICATED)
	DOMESTIC HOT WATER RECIRCULATING PIPE
CW	INDUSTRIAL COLD WATER PIPE
IHW	INDUSTRIAL HOT WATER PIPE (TEMP. IF INDICATED)
IHWR	INDUSTRIAL HOT WATER RECIRCULATING PIPE
NP	NON-POTABLE WATER PIPE
AW	ACID WASTE PIPE
TW	TEMPERED WATER PIPE
ROS	REVERSE OSMOSIS WATER SUPPLY PIPE
ROR	REVERSE OSMOSIS WATER RETURN PIPE
DIS	DEIONIZED WATER SUPPLY PIPE
DIR	DEIONIZED WATER RETURN PIPE
A	COMPRESSED AIR PIPE
G	NATURAL GAS PIPE
V	VACUUM PIPE
VE	VACUUM EXHAUST PIPE
N	NITROGEN GAS PIPE
NO	NITROUS OXIDE GAS PIPE
O	OXYGEN GAS PIPE
SG	SPECIALTY GAS PIPE
HPS	HIGH PRESSURE STEAM PIPE (_PSIG)
HPR	HIGH PRESSURE CONDENSATE RETURN PIPE
MPS	MEDIUM PRESSURE STEAM PIPE (_PSIG)
MPR	MEDIUM PRESSURE CONDENSATE RETURN PIPE
LPS	LOW PRESSURE STEAM PIPE (_PSIG)
LPR	LOW PRESSURE CONDENSATE RETURN PIPE
STM(H)	HUMIDIFICATION STEAM PIPE
PCR	PUMPED CONDENSATE RETURN PIPE
VV	STEAM VAPOR VENT PIPE
HTHWS	HIGH TEMPERATURE HOT WATER SUPPLY PIPE
HTHWR	HIGH TEMPERATURE HOT WATER RETURN PIPE
	FLOW DIRECTION ARROW
	PIPE UP
	PIPE DOWN
	PIPE/DUCT CAP
	UNION
	FLANGED CONNECTION
	PIPE ANCHOR
	PIPE GUIDE
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	FLEXIBLE CONNECTION (PIPING)
	SHUTOFF VALVE (IN HORIZONTAL / IN VERTICAL)
	THROTTLING VALVE
	MANUAL BALANCING VALVE
	AUTOMATIC BALANCING VALVE
	CHECK VALVE (ARROW INDICATES DIRECTION OF FLOW)
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	HOSE END DRAIN
	PRESSURE GAGE WITH ISOLATION VALVE
	TEMPERATURE GAGE/THERMOMETER
	FLOW METER FITTING
	COMBINATION BALANCING VALVE & FLOW METER FITTING
	PRESSURE AND TEMPERATURE PLUG
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	STRAINER WITH BLOW DOWN VALVE
	STEAM TRAP
	PUMP
	FIRE SUPPRESSION INDICATING VALVE W/TAMPER SWITCH
	FIRE DEPARTMENT VALVE
	ALARM CHECK VALVE
	DRY PIPE VALVE
	DRY PIPE VALVE W/ACCELERATOR
	PREACTION VALVE
	DELUGE VALVE
	FIRE SUPPRESSION FLOW SWITCH
	FIRE SUPPRESSION PRESSURE SWITCH
	FIRE SUPPRESSION DOUBLE CHECK BACKFLOW PREVENTER
	FIRE DEPARTMENT SIAMESE WALL CONNECTION
	FIRE DEPARTMENT SIAMESE FREESTANDING CONNECTION
	WATER MOTOR GONG
	PUMP
FCVA	EXPOSED SPRINKLER ZONE CONTROL VALVE ASSEMBLY

DRAWING CONVENTIONS

SYMBOL	DESCRIPTION
	INDICATES DIRECTION OF CUTTING PLANE
A	NUMBER OR LETTER INDICATES SECTION OR ELEVATION
MX.XX	DRAWING NUMBER WHERE ELEVATION OR SECTION IS TAKEN OR DRAWN
S / X	SANITARY RISER NUMBER
CRW / X	CORROSIVE WASTE RISER NUMBER
W / X	DOMESTIC WATER RISER NUMBER
IW / X	INDUSTRIAL WATER RISER NUMBER
SW / X	STORM WATER RISER NUMBER
V / X	VACUUM RISER NUMBER
A / X	COMPRESSED AIR RISER NUMBER
P-CHX	EQUIPMENT DESIGNATION
	NUMERICAL DESIGNATION
	EQUIPMENT SERVICE DESIGNATION
	EQUIPMENT TYPE DESIGNATION
	PLUMBING FIXTURE DESIGNATION, P-X

SYMBOL	DESCRIPTION
	POINT OF CONNECTION, NEW TO EXISTING
	DEMOLITION WORK TERMINATION POINT
1	INDICATES SPECIAL NOTE
	NUMBER INDICATES SPECIAL NOTE DESIGNATION. REFER TO SPECIAL NOTE LIST ON DRAWING FOR DESCRIPTION OF ITEM
RO / X	REVERSE OSMOSIS RISER NUMBER
F / X	FIRE PROTECTION RISER NUMBER
? / X	RAIN WATER COLLECTION RISER NUMBER
? / X	RAIN WATER SUPPLY RISER NUMBER
G / X	NATURAL GAS RISER NUMBER
	HEAVY LINE WEIGHT DESIGNATES NEW WORK ON NEW WORK PLANS, AND REMOVAL WORK ON DEMOLITION PLANS
	LIGHT LINE WEIGHT DESIGNATES EXISTING WORK TO REMAIN

GENERAL NOTES

REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND LOCATIONS OF ALL VISIBLE DEVICES, AND COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.

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STATE OF MARYLAND
DANIEL CARMINE
No. 200465
PROFESSIONAL ENGINEER
8/5/22

5 August 2022 100% CD Submission
PROJECT NUMBER: 2205

PLUMBING LEGEND

P-001

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DRAWING NOTES:

A. FOR SYMBOLS, ABBREVIATIONS, AND DRAWING CONVENTIONS, REFER TO DRAWING P-001.

B. EXISTING CONDITIONS SHOWN ARE BASED ON LIMITED FIELD SURVEY AND EXISTING DOCUMENTATION. CONTRACTOR SHALL FIELD VERIFY CONDITIONS, INDICATED OR OTHERWISE.

C. COORDINATE NEW WORK WITH DEMOLITION.

D. REFER TO ARCHITETURAL DRAWINGS FOR MOUNTING HEIGHTS & LOCATIONS OF ALL VISABLE DEVICES, AND COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.

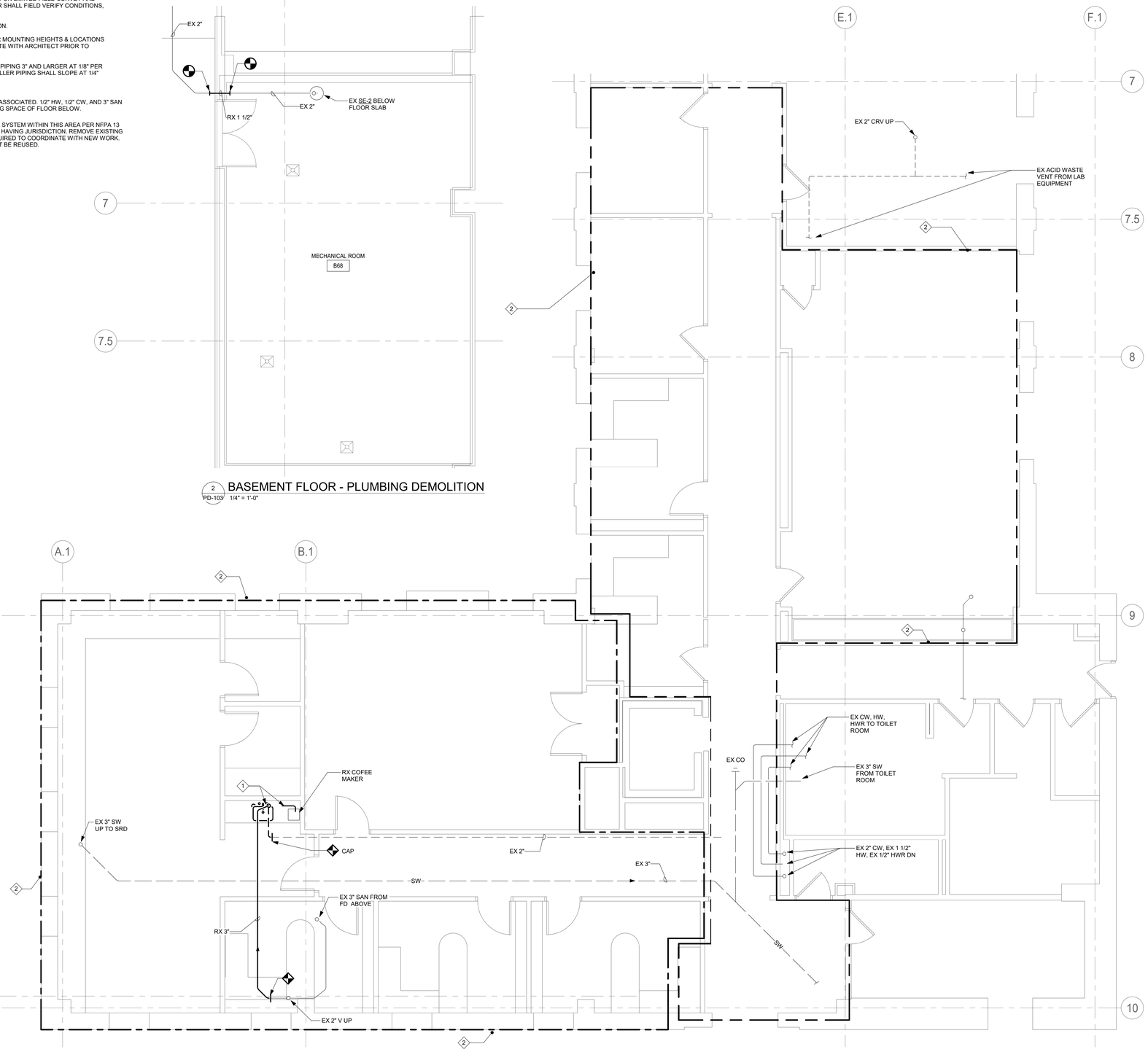
E. SLOPE ALL SANITARY AND STORM WATER PIPING 3" AND LARGER AT 1/8" PER FOOT IN DIRECTION OF FLOW. 2" AND SAMLLER PIPING SHALL SLOPE AT 1/4" PER FOOT IN DIRECTION OF FLOW.

SPECIAL NOTES:

1 RX SINK, COFFEE MAKER OUTLET, AND ASSOCIATED. 1/2" HW, 1/2" CW, AND 3" SAN PIPING. CAP SANITARY PIPING IN CEILING SPACE OF FLOOR BELOW.

2 MODIFY EXISTING WET PIPE SPRINKLER SYSTEM WITHIN THIS AREA PER NFPA 13 AND IN ACCORDANCE WITH AUTHORITY HAVING JURISDICTION. REMOVE EXISTING SPRINKLER HEADS AND PIPING AS REQUIRED TO COORDINATE WITH NEW WORK. EXISTING SPRINKLER HEADS SHALL NOT BE REUSED.

2 PD-103 BASEMENT FLOOR - PLUMBING DEMOLITION
1/4" = 1'-0"



1 PD-103 SECOND FLOOR - PLUMBING DEMOLITION
1/4" = 1'-0"

IF DRAWING IS REDUCED, USE GRAPHIC SCALE
4' 0' 2' 4'
1/4" = 1'-0"

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SECOND FLOOR PLAN - PLUMBING DEMOLITION

PD-103

DRAWING NOTES:

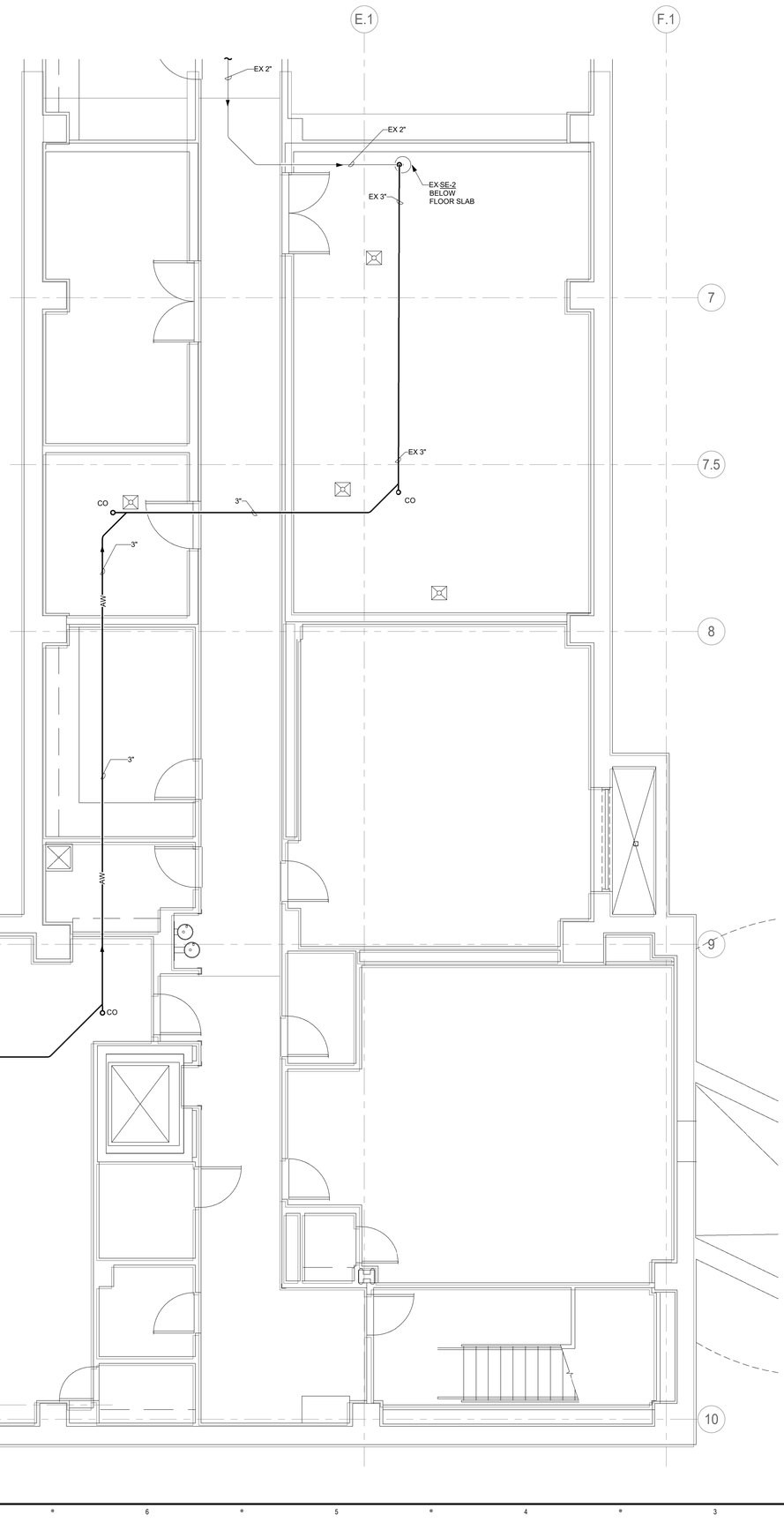
A. FOR SYMBOLS, ABBREVIATIONS, AND DRAWING CONVENTIONS, REFER TO DRAWING P-001.

B. EXISTING CONDITIONS SHOWN ARE BASED ON LIMITED FIELD SURVEY AND EXISTING DOCUMENTATION. CONTRACTOR SHALL FIELD VERIFY CONDITIONS, INDICATED OR OTHERWISE.

C. COORDINATE NEW WORK WITH DEMOLITION.

D. REFER TO ARCHITETURAL DRAWINGS FOR MOUNTING HEIGHTS & LOCATIONS OF ALL VISABLE DEVICES, AND COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.

E. SLOPE ALL SANITARY AND STORM WATER PIPING 3" AND LARGER AT 1/8" PER FOOT IN DIRECTION OF FLOW. 2" AND SAMLLER PIPING SHALL SLOPE AT 1/4" PER FOOT IN DIRECTION OF FLOW.



1 P-101 BASEMENT FLOOR - PLUMBING NEW WORK
1/4" = 1'-0"

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PROJECT NUMBER: 2205

BASEMENT PLAN - PLUMBING NEW WORK

P-101

DRAWING NOTES:

A. FOR SYMBOLS, ABBREVIATIONS, AND DRAWING CONVENTIONS, REFER TO DRAWING P-001.

B. EXISTING CONDITIONS SHOWN ARE BASED ON LIMITED FIELD SURVEY AND EXISTING DOCUMENTATION. CONTRACTOR SHALL FIELD VERIFY CONDITIONS, INDICATED OR OTHERWISE.

C. COORDINATE NEW WORK WITH DEMOLITION.

D. REFER TO ARCHITETURAL DRAWINGS FOR MOUNTING HEIGHTS & LOCATIONS OF ALL VISABLE DEVICES, AND COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.

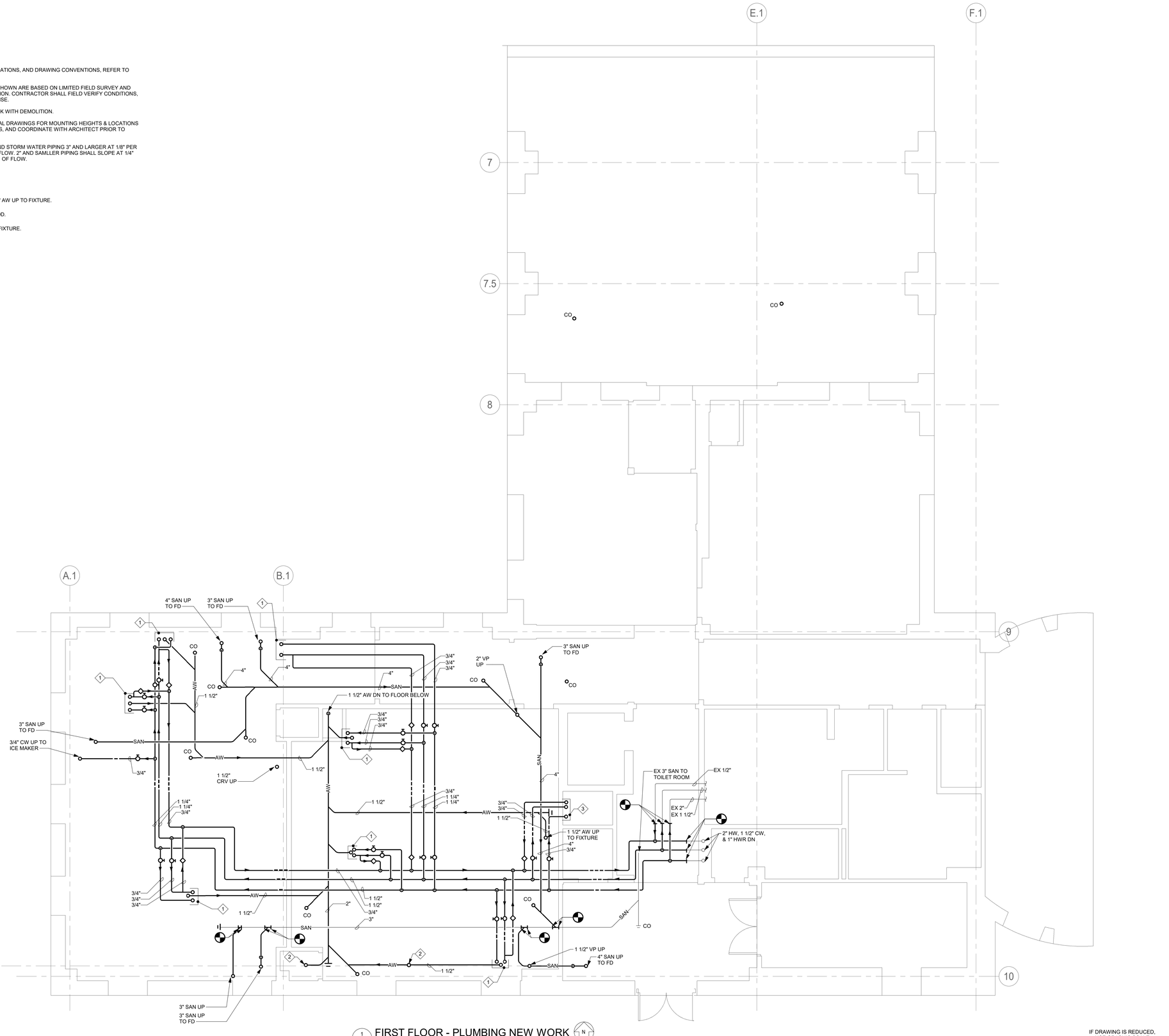
E. SLOPE ALL SANITARY AND STORM WATER PIPING 3" AND LARGER AT 1/8" PER FOOT IN DIRECTION OF FLOW. 2" AND SAMLLER PIPING SHALL SLOPE AT 1/4" PER FOOT IN DIRECTION OF FLOW.

◇ SPECIAL NOTES:

1 3/4" CW, 3/4" HW & 1 1/2" AW UP TO FIXTURE.

2 2" AW UP TO FUME HOOD.

3 3/4" CW & 3/4" H UP TO FIXTURE.



1 / P-102 FIRST FLOOR - PLUMBING NEW WORK
1/4" = 1'-0"

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1/4" = 1'-0"

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PROJECT NUMBER: 2205

FIRST FLOOR PLAN - PLUMBING NEW WORK

P-102

DRAWING NOTES:

A. FOR SYMBOLS, ABBREVIATIONS, AND DRAWING CONVENTIONS, REFER TO DRAWING P-001.

B. EXISTING CONDITIONS SHOWN ARE BASED ON LIMITED FIELD SURVEY AND EXISTING DOCUMENTATION. CONTRACTOR SHALL FIELD VERIFY CONDITIONS, INDICATED OR OTHERWISE.

C. COORDINATE NEW WORK WITH DEMOLITION.

D. REFER TO ARCHITETURAL DRAWINGS FOR MOUNTING HEIGHTS & LOCATIONS OF ALL VISABLE DEVICES, AND COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.

E. SLOPE ALL SANITARY AND STORM WATER PIPING 3" AND LARGER AT 1/8" PER FOOT IN DIRECTION OF FLOW. 2" AND SAMLLER PIPING SHALL SLOPE AT 1/4" PER FOOT IN DIRECTION OF FLOW.

SPECIAL NOTES:

1 CONNECT 3/4" VACUUM PIPING FROM VACUUM PUMP LOCATED WITHIN CABINETS TO CASEWORK GAS COCKS AND/OR FUMEHOOD OUTLETS AS INDICATED. EACH VACUUM PUMP SUPPLIES TWO OUTLETS.

2 3/4" CW, 3/4" HW, 3/4" HWR, & 1 1/2" AW DN FROM FIXTURE.

3 POINT OF USE DI WATER PURIFICATION SYSTEM WALL-MOUNTED NEAR SINK.

4 3/4" CW, 3/4" HW, 3/4" HWR, & 1 1/2" AW UP TO FIXTURE.

5 PROVIDE NEW 3/4" A OFF OF EXISTING 1" MAIN NEAR AIR COMPRESSOR IN PENTHOUSE. APPROXIMATELY 125 LINEAR FEET.

6 MODIFY EXISTING WET PIPE SPRINKLER SYSTEM PER NFPA 13 AND IN ACCORDANCE WITH THE MARYLAND STATE FIRE MARSHAL OFFICE AND PROVIDE NEW SPRINKLER HEADS AND PIPING TO REPLACE EXISTING SPRINKLER HEADS AND PIPING IN AREA INDICATED. PROVIDE NEW SPRINKLER HEADS AND PIPING AS REQUIRED TO ACCOMMODATE NEW CEILINGS WALLS, LIGHTING, AIR DEVICES, ETC. RELOCATION OF EXISTING SPRINKLER HEADS AND PIPING IS NOT PERMITTED.

7 AIR ADMITTANCE VALVE. LOCATE MINIMUM 4" ABOVE THE TOP OF THE HORIZONTAL SANITARY PIPING.

LABORATORY VACUUM PUMPS

GENERAL:	
DESIGNATION	P-VAC-1
LOCATION	FUME HOODS, ISLANDS, AND BIOSAFETY CABINET
SERVICE	LABORATORY GRADE VACUUM
TYPE OF VACUUM PUMP	---
PERFORMANCE:	
SCFM DISPLACEMENT (EACH)	---
CAPACITY	---
MOTOR HORSEPOWER	---
RECEIVER TANK (ASME):	
CAPACITY (GAL)	---
PRESSURE RATING	---
ARRANGEMENT	---
RELIEF VALVE SETTING	---
PHYSICAL:	
APPROXIMATE LENGTH (IN)	---
APPROXIMATE WIDTH (IN)	---
APPROXIMATE HEIGHT (IN)	---
ELECTRICAL:	
VOLTAGE	---
PHASE	---
FREQUENCY (HZ)	---

NOTES:

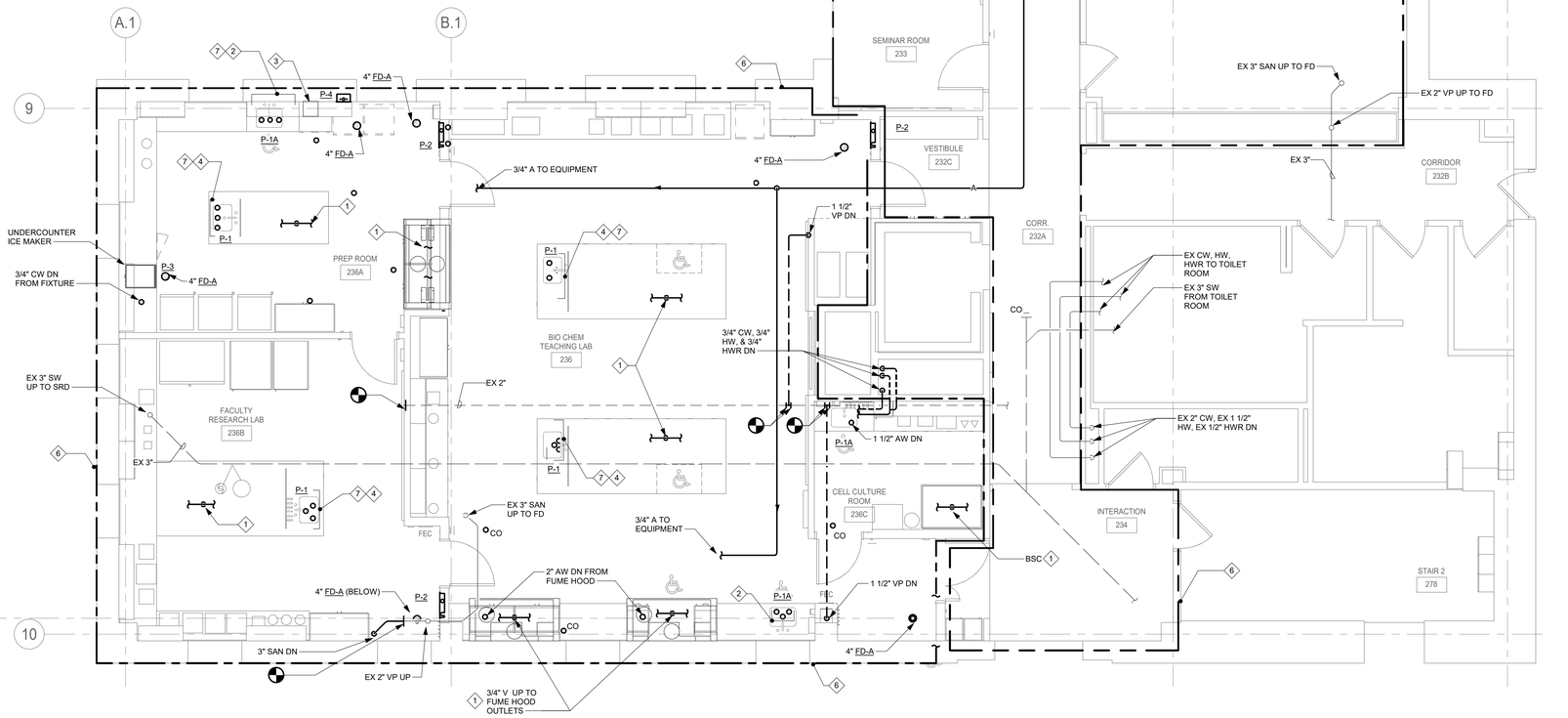
1. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.

PLUMBING FIXTURE SCHEDULE

DESIG	DESCRIPTION	FIXTURE UNITS		ROUGH-IN CONNECTION (IN)						REMARKS
		WASTE	WATER	SAN	VENT	CRW	CRV	CW	HW	
P-1	LAB SINK	2	2	0"	0"	1 1/2"	1 1/2"	1/2"	1/2"	PROVIDE WITH EYEWASH.
P-1A	LAB SINK	2	2	0"	0"	1 1/2"	1 1/2"	1/2"	1/2"	PROVIDE WITH EYEWASH.
P-2	COMBINATION EMERGENCY SHOWER /EYEWASH	0	0	1 1/2"	1 1/2"	0"	0"	1/2"	1/2"	RECESSSED, PROVIDED WITH ASSE 1071 MIXING VALVE TO PROVIDE TEPID WATER PER ANSI Z 358.1 STANDARD.
P-3	ICE MAKER OUTLET BOX		0.25					1/2"		WALL-MOUNTED, PROVIDE WITH ASSE 1024 INLINE DUAL CHECK BACKFLOW PREVENTER.
P-4	DISHWASHER OUTLET BOX		1.4					1/2"		PROVIDE WITH ASSE 1024 INLINE DUAL CHECK BACKFLOR PREVENTER.

LAB EQUIPMENT SCHEDULE

DESIG	DESCRIPTION	COMPRESSED AIR	VACUUM	GAS	CO2	PURE WATER	ACID WASTE	EYE WASH	CUP SINK	REMARKS
CFH	FUME HOOD	NO	YES	NO	NO	NO	YES	NO	YES	---
BSC	BIOSAFETY CABINET	NO	YES	NO	NO	NO	NO	NO	NO	---



1 / P-103 SECOND FLOOR - PLUMBING NEW WORK
1/4" = 1'-0"

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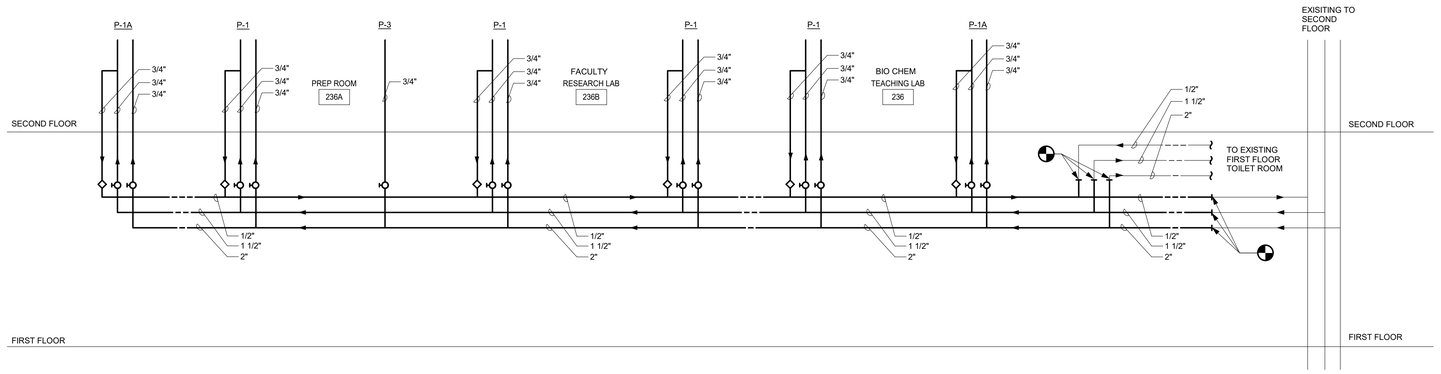
5 August 2022 100% CD Submission

PROJECT NUMBER: 2205

SECOND FLOOR PLAN - PLUMBING NEW WORK

P-103



1 P-601 DOMESTIC WATER RISER
NOT TO SCALE

SANITARY RISER DIAGRAM TO BE
PROVIDED IN FUTURE SUBMISSION

COMPRESSED AIR RISER DIAGRAM TO BE
PROVIDED IN FUTURE SUBMISSION

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PLUMBING DETAILS AND SCHEMATICS

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