ABBREVIATIONS

AB	ABANDONED
AAV	AIR ADMITTANCE VALVE
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AW	ACID WASTE
AWV	ACID WASTE VENT
BFP	BACK FLOW PREVENTER
CA	COMPRESSED AIR
CO	CLEAN OUT
CW	DOMESTIC COLD WATER
DF	DRINKING FOUNTAIN
DN	DOWN
DW	DISHWASHER
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EWC	ELECTRIC WATER COOLER
FAI	FRESH AIR INLET
(F)FD	FUTURE FLOOR DRAIN
FD-A	FLOOR DRAIN (A – INDICATES TYPE)
FU	FIXTURE UNIT
GC	GENERAL CONTRACTOR
G	GAS
GI	GREASE INTERCEPTOR
HB	HOSE BIBB
HW	DOMESTIC HOT WATER
HWH	HOT WATER HEATER
HWR	DOMESTIC HOT WATER RECIRCULATION
IW	INDIRECT WASTE
LAV	LAVATORY
MAX	MAXIMUM
MIN	MINIMUM
MC	MECHANICAL CONTRACTOR
MH	MANHOLE
MR	MOP RECEPTOR
N	NEW WORK
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NIC	NOT IN CONTRACT
OFD	OVERFLOW DRAIN
OS&Y	OUTSIDE SCREW & YOKE GATE VALVE
PC	PLUMBING CONTRACTOR
PRV	PRESSURE REDUCING VALVE
R	REMOVE
RD	ROOF DRAIN
RO	REVERSE OSMOSIS
RWC	RAIN WATER CONDUCTOR
SA	SHOCK ABSORBER
SAN	SANITARY
SS	SERVICE SINK
SH	SHOWER
SK	SINK
ST	STORM
SW	SAFE WASTE
TW	TEMPERED WATER
UR	URINAL
VTR	VENT THRU ROOF
V	VENT
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WMB	WASHING MACHINE OUTLET BOX

GENERAL NOTES

1. THE FOLLOWING NOTES APPLY TO ALL PLUMBING DRAWINGS.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE 2021 AND ALL OTHER APPLICABLE CODES AND STANDARDS.
3. ALL DRAWINGS ARE DIAGRAMMATIC. PLUMBING CONTRACTOR SHALL CAREFULLY EXAMINE EXISTING CONDITIONS PRIOR TO STARTING WORK.
4. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, SIZES, CLEARANCES AND LOCATIONS PRIOR TO THE START OF CONSTRUCTION. WHEN CONFLICTS ARISE, MAKE ANY NECESSARY CHANGES TO ROUTING OF
5. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
6. SCHEDULES DO NOT REPRESENT EQUIPMENT QUANTITIES. REFER TO THE PLANS FOR ACTUAL QUANTITIES.
7. PLUMBING CONTRACTOR SHALL PROVIDE FIREPROOF PIPE SLEEVES AT ALL NEW PIPING PENETRATIONS THRU FIRE RATED WALLS AND FLOORS.
8. MANUFACTURERS AND MODEL NUMBERS INDICATED ON THE PLANS, SCHEDULES AND SKETCHES ARE PROVIDED AS A BASIS OF DESIGN ONLY. BIDDERS SHALL REFER TO THE SPECIFICATIONS FOR A LISTING OF MULTIPLE ACCEPTABLE MANUFACTURERS FOR EACH OF THESE ITEMS. SIMILAR PRODUCTS FROM ANY OF THESE MANUFACTURERS MAY BE FURNISHED PROVIDED THEY MEET THE INTENT OF THE SPECIFICATIONS. ANY CHANGES TO THE DESIGN REQUIRED AS A RESULT OF A SUBSTITUTION ARE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR.

LIST OF DRAWINGS

P001	PLUMBING COVER SHEET
PD101	PLUMBING DEMOLITION PLANS
P101	PLUMBING NEW WORK FLOOR PLANS
P102	PLUMBING NEW WORK FLOOR PLANS
P201	PLUMBING SCHEDULES

GENERAL DEMOLITION NOTES

1. ALL WORK UNDER THIS SECTION SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
2. DEMOLITION/RELOCATIONS: EACH TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND RELOCATIONS OF SERVICES, EQUIPMENT AND MATERIAL RELATING TO THEIR RESPECTIVE TRADE.
3. PRIOR TO DEMOLITION CONTRACTOR SHALL REVIEW WITH OWNER ALL MATERIALS TO BE REMOVED. SHOULD THE OWNER OPT TO KEEP ANY MATERIALS, THE CONTRACTOR SHALL REMOVE AND DELIVER THE PARTS TO THE OWNER ON THE SITE WHERE SO DIRECTED. OTHERWISE, ALL DEMOLISHED OR REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR, SHALL BE REMOVED FROM THE SITE, AND BE DISPOSED OF IN A LEGAL MANNER.
4. DEMOLITION SHALL INCLUDE REMOVAL OF ALL PARTS AND PIECES IN THEIR ENTIRETY BACK TO THE POINTS INDICATED OR IF NOT INDICATED BACK TO THEIR POINT OF SOURCE. WHERE CONDITIONS PROHIBIT TOTAL REMOVAL OF THE WORK, THE REMAINING PORTION SHALL BE CUT FLUSH WITH THE SURROUNDING SURFACE SHALL BE REFINISHED IN AN APPROVED MANNER.
5. MAINTAIN EXISTING UTILITIES INDICATED OR WHERE REQUIRED TO REMAIN, KEEP IN SERVICE, AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN SCHEDULED WITH THE OWNER.
6. DO NOT REMOVE EXISTING STRUCTURAL WORK. DO NOT REMOVE OPERATIONAL ELEMENTS AND SAFETY-RELATED COMPONENTS IN A MANNER RESULTING IN A REDUCTION OF CAPACITIES TO PERFORM IN THE MANNER INTENDED OR RESULTING IN DECREASED OPERATIONAL LIFE, INCREASED MAINTENANCE, OR DECREASED SAFETY.
7. REMOVALS, DISCONNECTIONS, AND RELOCATIONS SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE INVOLVED AND SHALL BE EMPLOYED BY A CONTRACTOR LICENSED IN THE TRADE INVOLVED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ACCEPTED TRADE PRACTICES.
8. PROVIDE ADEQUATE TEMPORARY SUPPORT FOR WORK TO REMAIN TO PREVENT FAILURE. DO NOT ENDANGER OTHER WORK.
9. PROTECTION: PROVIDE ADEQUATE PROTECTION WHERE REQUIRED FOR THE PRESENT BUILDING AND ITS CONTENTS. TEMPORARY DUSTPROOF BARRIERS AND BARRICADES SHALL BE ERECTED WHERE REQUIRED FOR PROTECTION OF PERSONNEL, PROTECTION FROM DUST AND DIRT, FOR SECURITY, FIRE AND WEATHER PROTECTIVE REASONS. CONTRACTOR SHALL TAKE EVERY PRECAUTION AGAINST FIRE BY EMPLOYING FIRE DEPARTMENT TYPE HOSES AND PORTABLE FIRE EXTINGUISHERS AS REQUIRED BY OSHA AND/OR THE OWNER'S INSURANCE UNDERWRITER.
10. EXTREME CARE SHALL BE EXERCISED FOR ALL EXISTING ITEMS THAT ARE TO REMAIN IN SERVICE UNTIL NEW ITEMS ARE INSTALLED FOR THE SAME SERVICE. ALL SHUTDOWNS OF ANY SYSTEM SHALL BE COORDINATED WITH THE OWNER.
11. ALL DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL CAREFULLY EXAMINE EXISTING CONDITIONS PRIOR TO STARTING WORK

SYMBOL LEGEND

- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- DOMESTIC HOT WATER RECIRCULATION
- G — NATURAL GAS PIPING
- P — PROPANE LINE
- RWC — RAIN WATER CONDUCTOR
- TW — TEMPERED WATER
- SANITARY LINE
- CD — CONDENSATE DRAIN
- V — VENT LINE
- BFP — BACK FLOW PREVENTER
- M — OS & Y VALVE (M DENOTES MONITORED VALVE)
- GLOBE VALVE
- BALL VALVE
- M — MONITORED BALL VALVE
- BUTTERFLY VALVE
- M — MONITORED BUTTERFLY VALVE
- CO — CLEAN OUT
- CO — CO — CLEAN OUT
- FS — FLOW SWITCH
- GAS COCK
- SA — SHOCK ABSORBER
- PRESSURE REDUCING VALVE
- HB — HOSE BIBB
- WH — WALL HYDRANT
- CHECK VALVE
- RELIEF VALVE
- GAUGE WITH COCK
- CAPPED LINE
- DRAIN VALVE WITH HOSE THREAD
- CIRCUIT SETTER
- SELF CONTAINED TEMPERING VALVE
- EXISTING WORK TO REMAIN
- WORK TO BE REMOVED
- NEW WORK
- DENOTES CONNECT TO EXISTING
- DENOTES LIMIT OF DEMOLITION

PLAN NORTH

AGCS STATE ROAD ADMINISTRATION

110 E State Rd, West Grove, PA 19390

HSA PROJECT # :26-004

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ISSUE HISTORY

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SHEET TITLE

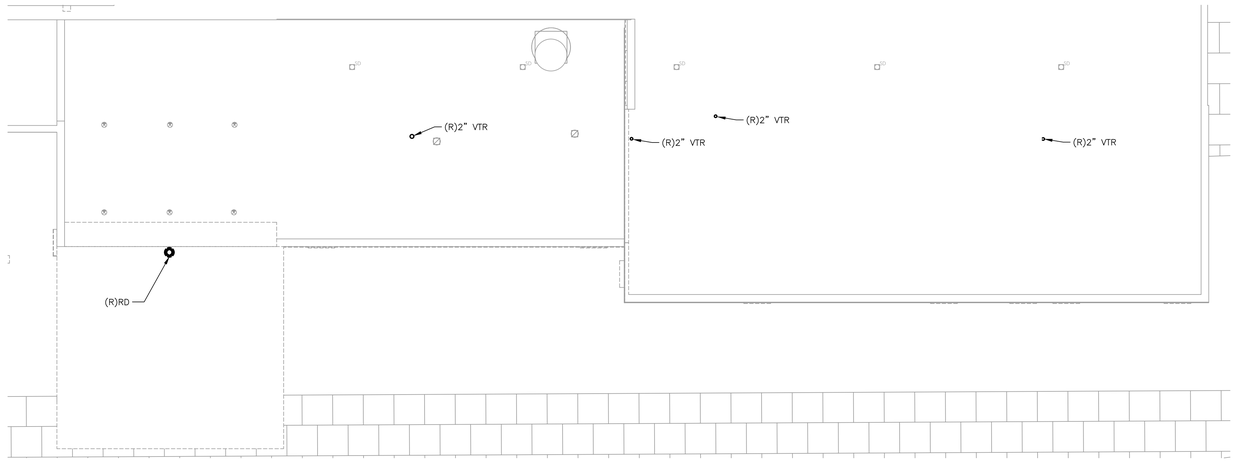
PLUMBING COVER SHEET

DRAWING NUMBER

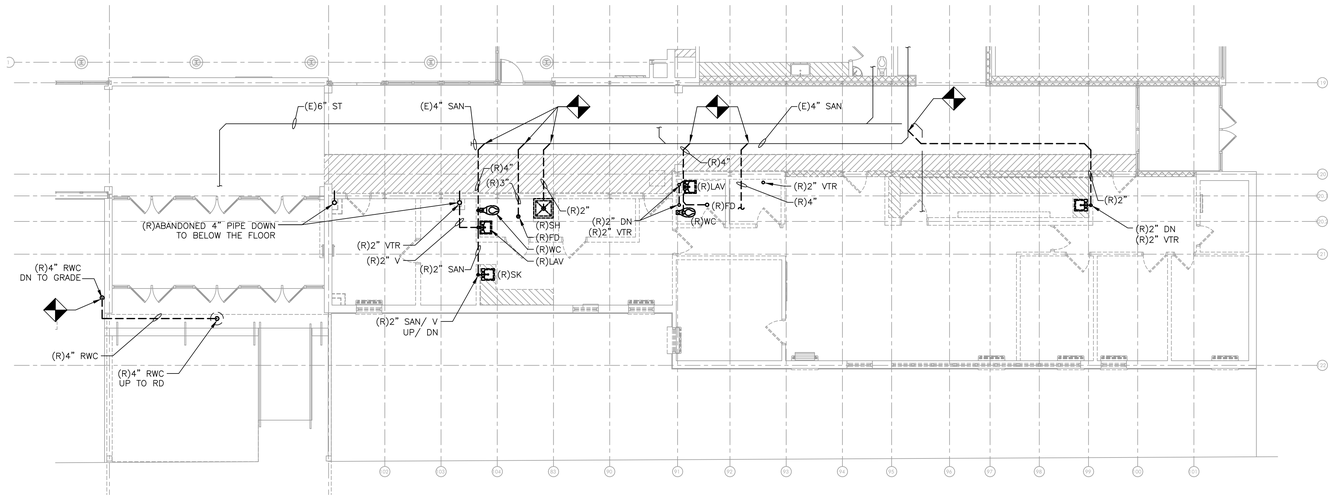
P001

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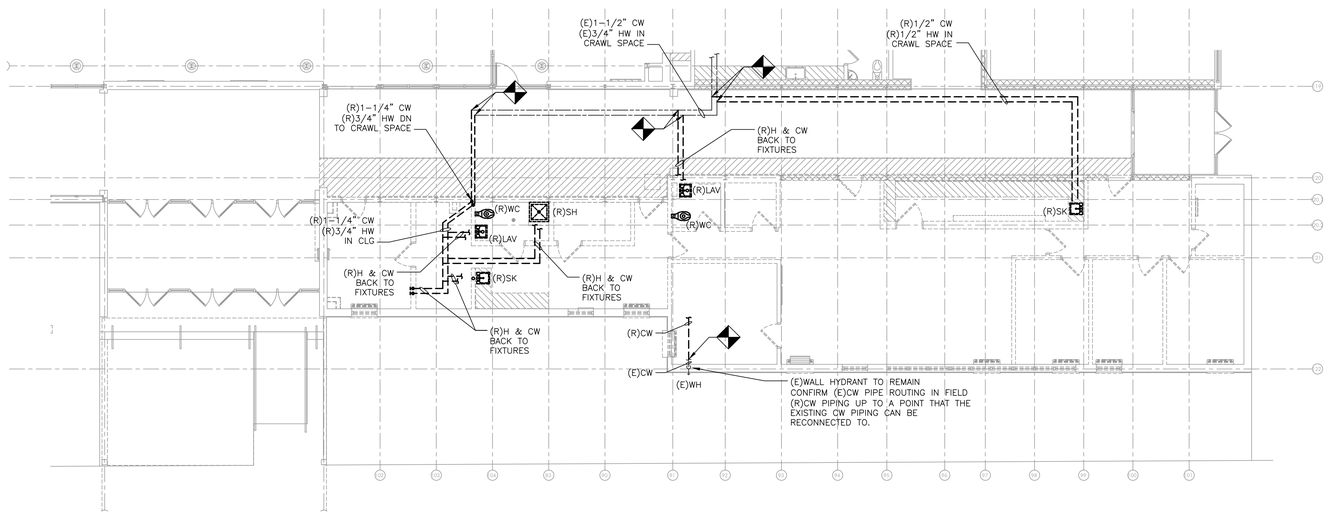
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3 PD101 PLUMBING DEMOLITION ROOF PLAN
SCALE:1/8"=1'-0"



2 PD101 PLUMBING DEMOLITION SANITARY PLAN
SCALE:1/8"=1'-0"



1 PD101 PLUMBING DEMOLITION DOMESTIC WATER PLAN
SCALE:1/8"=1'-0"

NOTES:

1. REFER TO DRAWING P001 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS DEMOLISHED UNLESS OTHERWISE NOTED AS EXISTING (E) OR RELOCATED (REL).
3. ALL ABANDONED DRAIN AND VENT PIPING TO BE PERMANENTLY SEALED WITH AN APPROVED CAP OR PLUG.
4. ALL ABANDONED DOMESTIC WATER PIPING TO BE REMOVED AND CAPPED AT MAIN.

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PLUMBING DEMOLITION PLANS

DRAWING NUMBER

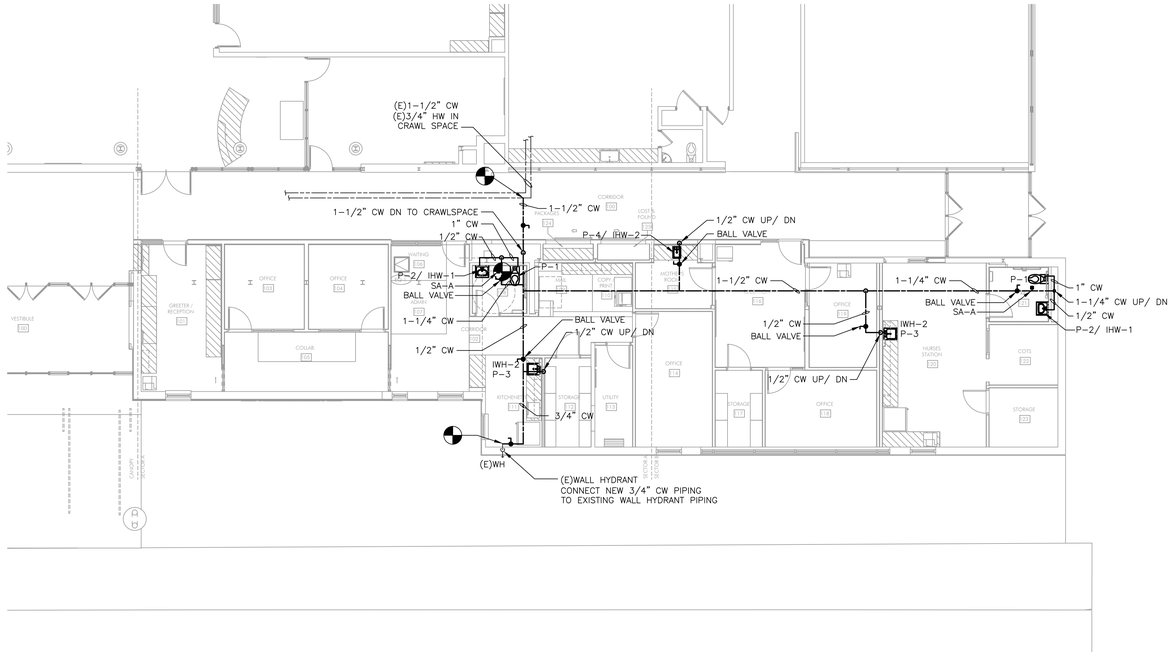
PD101

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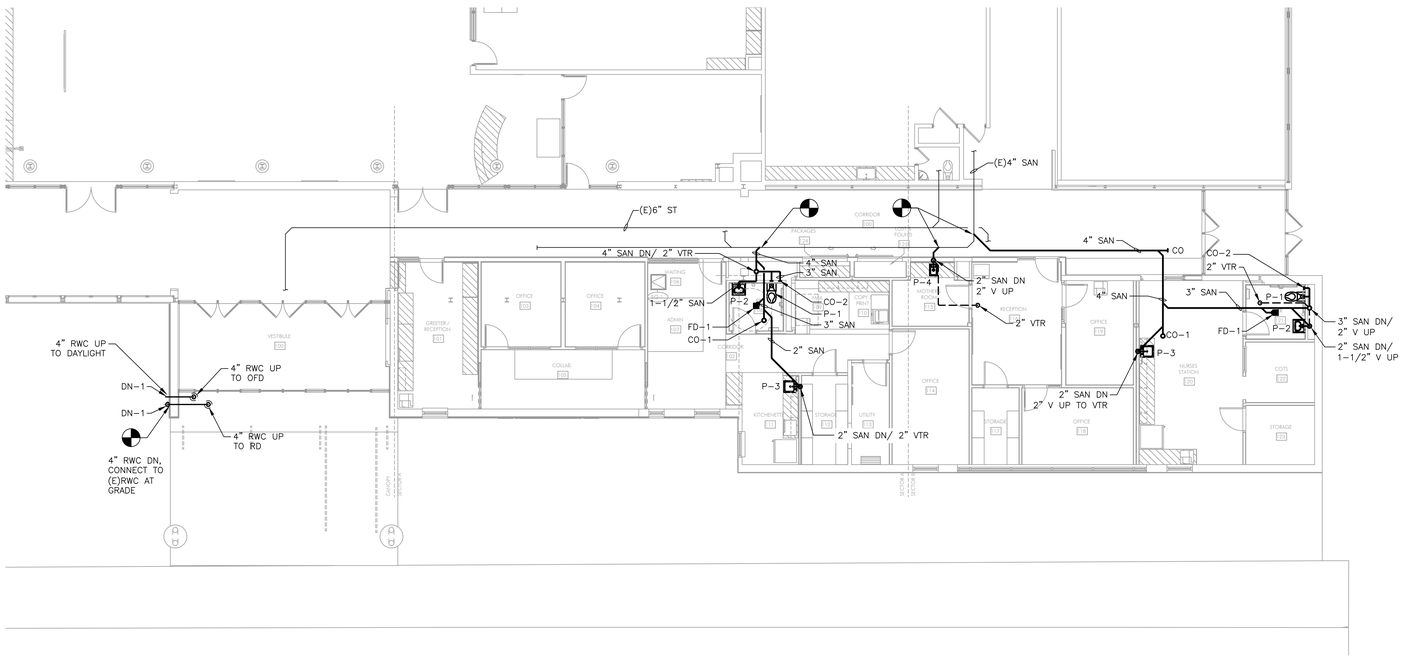
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2 / P101 PLUMBING NEW WORK DOMESTIC WATER PLAN
SCALE:1/8"=1'-0"



1 / P101 PLUMBING NEW WORK SANITARY PLAN
SCALE:1/8"=1'-0"

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PLUMBING NEW WORK-FLOOR PLANS

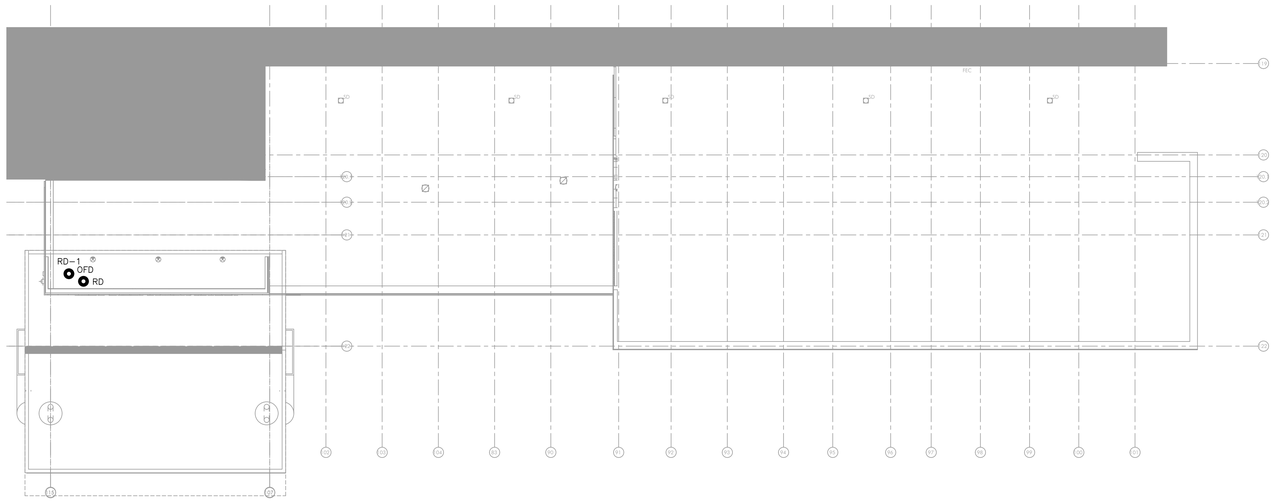
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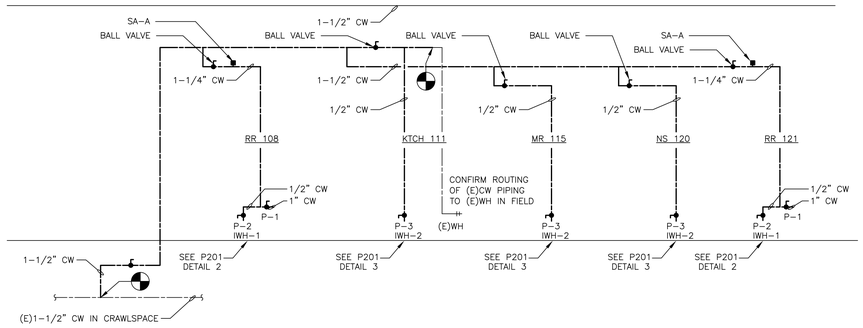
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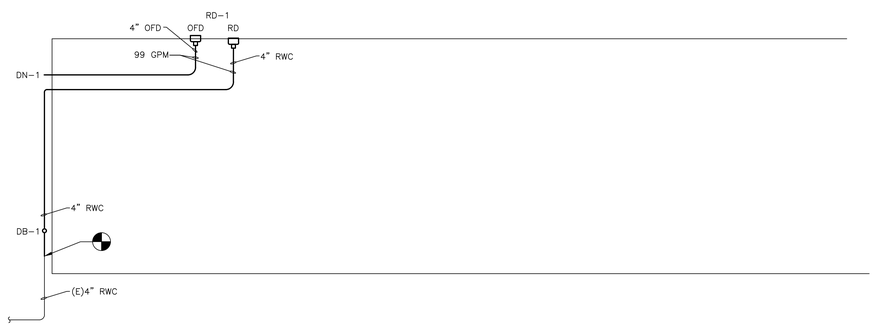
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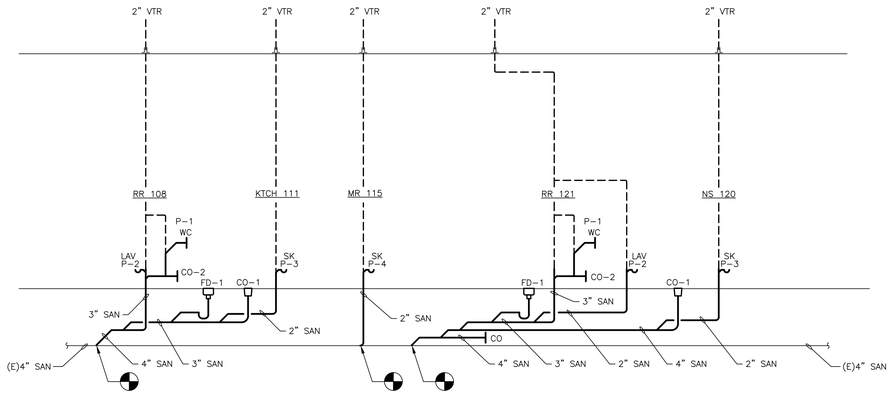
1 P102 PLUMBING NEW WORK DOMESTIC WATER PLAN
SCALE:1/8"=1'-0"



2 P102 DOMESTIC WATER PIPING RISER
SCALE:1/8"=1'-0"



3 P102 SANITARY STORM WATER PIPING RISER
SCALE:1/8"=1'-0"



3 P102 SANITARY WASTE & VENT PIPING RISER
SCALE:1/8"=1'-0"

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PLUMBING NEW WORK-FLOOR PLANS

DRAWING NUMBER

P102

PLUMBING FIXTURE SCHEDULE									
NO.	DESCRIPTION	MOUNTING	TRAP	DRAIN	VENT	CW	HW	REMARKS	MANUFACTURER & MODEL NO.
P–1	WATER CLOSET	WALL	INTEGRAL	4"	2"	1–1/4"	–	ADA COMPLIANT BATTERY 1.28 GPM	AMERICAN STANDARD AFWALL MILLENIUM 1.28 GPF FLOWISE MODEL 3351.101 WITH ELONGATED SEAT. CHURCH 295SSCT 047 HEAVY DUTY OPEN FRONT SEAT, LESS COVER. SLOAN ROYAL 111 SFSM–1.28–TMO. ZURN Z1201–N_3 ADJUSTABLE HORIZONTAL CLOSET CARRIER SYSTEM.
P–2	LAVATORY	WALL	"P"	1–1/4"	1–1/4"	1/2"	1/2"	ADA HARD WIRED .5 GPM	AMERICAN STANDARD LUCERNE MODEL 0356.421, DECK MOUNTED SENSOR OPERATED FAUCET; OPTIMA LAVATORY FAUCET ETF–880 HW, BOX TRANSFORMER POWER SUPPLY, 0.5 GPM AERATOR, LONG LAV SUPPLIES W/ ANGLE STOP, GRID DRAIN & TAILPIECE, TRAP & ESCUTCHEONS, PLUMBEREX SPECIALTY PRODUCTS HANDY–SHIELD & COVERS FOR SUPPLY AND DRAIN PIPING. PROVIDE WITH WATTS LSUFG–B MIXING VALVE OR OTHER ASSE 1070 APPROVED VALVE.
P–3	SINK	UNDERMOUNT	"P"	1–1/2"	1–1/2"	1/2"	1/2"		ELKAY LUSTERTONE CLASSIC STAINLESS STEEL SINGLE BOWL UNDERMOUNT SINK, MODEL LR1918, 7–5/8" DEEP. CHICAGO FAUCET MODEL 1100–GN8AE35–317AB FAUCET COMPLETE W/8" FIXED CENTER AND 1.5 GPM AERATOR, 12" LONG LAV SUPPLIES W/ ANGLE STOP, ELKAY LKPD1 PERFECT DRAIN & TAILPIECE, TRAP & ESCUTCHEONS, CENTER OUTLET CONTINUOUS WASTE, LUMBEREX SPECIALTY PRODUCTS HANDY–SHIELD & COVERS. PROVIDE WITH WATTS LSUFG–B MIXING VALVE OR OTHER ASSE 1070 APPROVED VALVE.
P–4	SINK	DROP–IN	"P"	1–1/2"	1–1/2"	1/2"	1/2"		ELKAY LUSTERTONE CLASSIC STAINLESS STEEL SINGLE BOWL DROP–IN SINK, MODEL LR1316, 7–5/8" DEEP. CHICAGO FAUCET MODEL 1100–GN8AE35–317AB FAUCET COMPLETE W/8" FIXED CENTER AND 1.5 GPM AERATOR, 12" LONG LAV SUPPLIES W/ ANGLE STOP, ELKAY LKPD1 PERFECT DRAIN & TAILPIECE, TRAP & ESCUTCHEONS, PLUMBEREX SPECIALTY PRODUCTS HANDY–SHIELD & COVERS. PROVIDE WITH WATTS LSUFG–B MIXING VALVE OR OTHER ASSE 1070 APPROVED VALVE.

NOTES: PROVIDE ASSE 1070 APPROVED MIXING VALVE FOR ALL LAVATORIES AND HAND SINKS. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

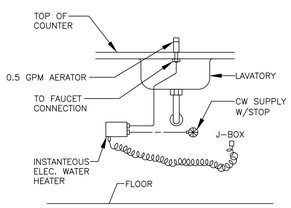
POINT–OF–USE DOMESTIC WATER HEATER SCHEDULE													
WH NO.	AREA SERVED	TURN ON (GPM)	MAX FLOW GPM	KW	VOLTS	PHASE	TOTAL AMP DRAW	TEMPERATURE RISE °F					MANUFACTURER MODEL #
								.05 GPM	1 GPM	1.5 GPM	2 GPM	2.5 GPM	
IWH–1		.03	2.5	3.5	120	1	29	48°	24°	16°	12°	10°	PROADVANTAGE PA004120T
IWH–2		.07	2.5	8.3	208	1	39	–	57°	38°	28°	23°	PROADVANTAGE PA004120T

NOTE: WATER HEATERS MUST BE ASHRAE 90.1 2018 COMPLIANT.

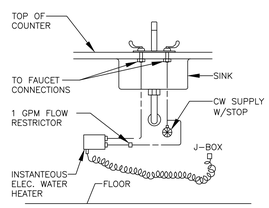
DRAIN AND SPECIALTY SCHEDULE				
NO.	DESCRIPTION	MOUNTING	REMARKS	MANUFACTURER & MODEL NUMBER
FD–1	FLOOR DRAIN	FLOOR	–	MIFAB F1100–C–FC LAQUERED CAST IRON FLOOR DRAIN WITH SURFACE MEMBRANE CLAMP FOR MEMBRANE FLOOR AREAS; ANCHOR FLANGE, CAST IRO MEMBRANE CLAMP RING WITH PRIMARY AND SECONDARY WEEPHOLES FOR WATERPROOFING MEMBRANE, AND "FC" ROUND 7" ROUND, REINFORCED SATIN NICKEL BRONZE STRAINER WITH SURFACE MEMBRANE CLAMP AND VANDAL RESISTANT SS ALLEN KEY SCREWS. Z1072 ZSHIELD BARRIER TRAP SEAL DEVICE.
CO–1	CLEAN OUT	FLOOR	_	MIFAB C1100–RFC FLOOR CLEANOUT WITH SURFACE MEMBRANE CLAMP, ADJUSTABLE COVER AND PLUG; 7" ADJUSTABLE LAQUERED CAST IRON FLOOR CLEANOUT AND ANCHOR FLANGE, SECONDARY "O" RING TEST SEAL, 4" DIAMETER CLEANOUT OPENING AND HEAVY DUTY SS SCORIATED COVER WITH SURFACE MEMBRANE CLAMP, SECONDARY CLOSURE PLUG AND SS VANDAL PROOF ALLEN KEY SCREWS.
CO–2	CLEAN OUT	WALL	_	JAY R. SMITH MODEL 9776T WALL CLEAN OUT WITH POLISHED SS COVER.
RD–1	ROOF DRAIN OVERFLOW DRAIN	ROOF	_	ZURN Z163 15" COMBINATION MAIN ROOF & OVERFLOW DRAIN WITH DURA–COATED CAST IRON BODY, COMBINATION MEMBRANE FLASHING CLAMP/ GRAVEL GUARD AND LOW SILHOUETTE POLY–DOMES, TOP–SET DECK PLATES.
DN–1	DOWNSPOUT NOZZLE	WALL	_	ZURN Z199–SS DOWNSPOUT NOZZLE, ALL NICKEL BRONZE, DECORATIVE FACE OF WALL FLANGE AND OUTLET NOZZLE, SS BIRD SCREEN.
DB–1	DOWNSPOUT BOOT	WALL	_	ZURN Z191–CA 5" x 4" x 24" DOWNSPOUT BOOT WITH DURA–COATED CAST IRON BODY AND STRAP WITH 1/4" DIAMETER CAST HOLES FOR FLAT HEAD BOLTS AND CLEANOUT ACCESS WITH PLUG.

SHOCK ABSORBER SCHEDULE	
TAG NO.	FIXTURE UNITS *
SA–A	1 – 11
SA–B	12 – 32
SA–C	33 – 60
SA–D	61– 113
SA–E	114 – 154

* FIXTURE UNIT VALUES ARE BASED ON THE PLUMBING DRAINAGE INSTITUTE "STANDARD P.D.I. WH–201"



2 P201 INSTANTEOUS WATER HEATER - 1
SCALE:NOT TO SCALE



3 P201 INSTANTEOUS WATER HEATER - 2
SCALE:NOT TO SCALE

1 P201 PLUMBING SCHEDULES
SCALE:NOT TO SCALE

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SHEET TITLE
PLUMBING SCHEDULES & DETAILS

DRAWING NUMBER
P201