

BY VOTE OF THE EXAMINING BOARD - THIS DRAWING HAS BEEN RELEASED TO THE PUBLIC - FEB, 2024

DEWEY DENTIST OFFICE  
ONONDAGA COUNTY, NEW YORK

UNDERFLOOR DRAINAGE  
PLAN

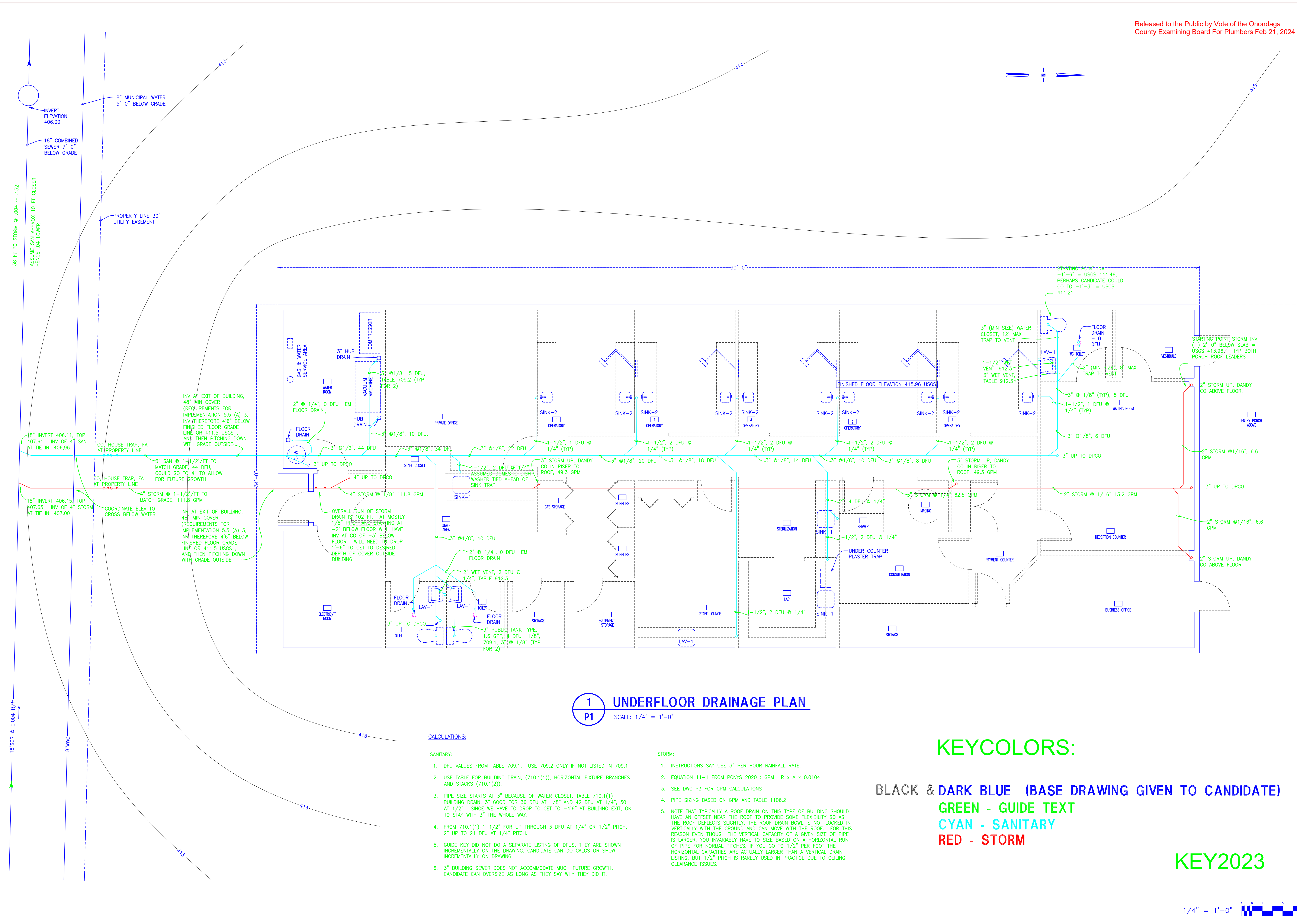
Project / Sheet Title

Scale  
AS NOTED

2015

Sheet No.

P1  
KEY



**1 UNDERFLOOR DRAINAGE PLAN**  
SCALE: 1/4" = 1'-0"

**CALCULATIONS:**

**SANITARY:**

- DFU VALUES FROM TABLE 709.1, USE 709.2 ONLY IF NOT LISTED IN 709.1
- USE TABLE FOR BUILDING DRAIN, (710.1(1)), HORIZONTAL FIXTURE BRANCHES AND STACKS (710.1(2)).
- PIPE SIZE STARTS AT 3" BECAUSE OF WATER CLOSET, TABLE 710.1(1) - BUILDING DRAIN, 3" GOOD FOR 36 DFU AT 1/8" AND 42 DFU AT 1/4", 50 AT 1/2". SINCE WE HAVE TO DROP TO GET TO -4'6" AT BUILDING EXIT, OK TO STAY WITH 3" THE WHOLE WAY.
- FROM 710.1(1) 1-1/2" FOR UP THROUGH 3 DFU AT 1/4" OR 1/2" PITCH, 2" UP TO 21 DFU AT 1/4" PITCH.
- GUIDE KEY DID NOT DO A SEPARATE LISTING OF DFUS, THEY ARE SHOWN INCREMENTALLY ON THE DRAWING. CANDIDATE CAN DO CALCS OR SHOW INCREMENTALLY ON DRAWING.
- 3" BUILDING SEWER DOES NOT ACCOMMODATE MUCH FUTURE GROWTH, CANDIDATE CAN OVERSIZE AS LONG AS THEY SAY WHY THEY DID IT.

**STORM:**

- INSTRUCTIONS SAY USE 3" PER HOUR RAINFALL RATE.
- EQUATION 11-1 FROM PCNYS 2020 : GPM = R x A x 0.0104
- SEE DWG P3 FOR GPM CALCULATIONS
- PIPE SIZING BASED ON GPM AND TABLE 1106.2
- NOTE THAT TYPICALLY A ROOF DRAIN ON THIS TYPE OF BUILDING SHOULD HAVE AN OFFSET NEAR THE ROOF TO PROVIDE SOME FLEXIBILITY SO AS THE ROOF DEFLECTS SLIGHTLY, THE ROOF DRAIN BOWL IS NOT LOCKED IN VERTICALLY WITH THE GROUND AND CAN MOVE WITH THE ROOF. FOR THIS REASON EVEN THOUGH THE VERTICAL CAPACITY OF A GIVEN SIZE OF PIPE IS LARGER, YOU INvariably HAVE TO SIZE BASED ON A HORIZONTAL RUN OF PIPE FOR NORMAL PITCHES. IF YOU GO TO 1/2" PER FOOT THE HORIZONTAL CAPACITIES ARE ACTUALLY LARGER THAN A VERTICAL DRAIN LISTING, BUT 1/2" PITCH IS RARELY USED IN PRACTICE DUE TO CEILING CLEARANCE ISSUES.

**KEYCOLORS:**

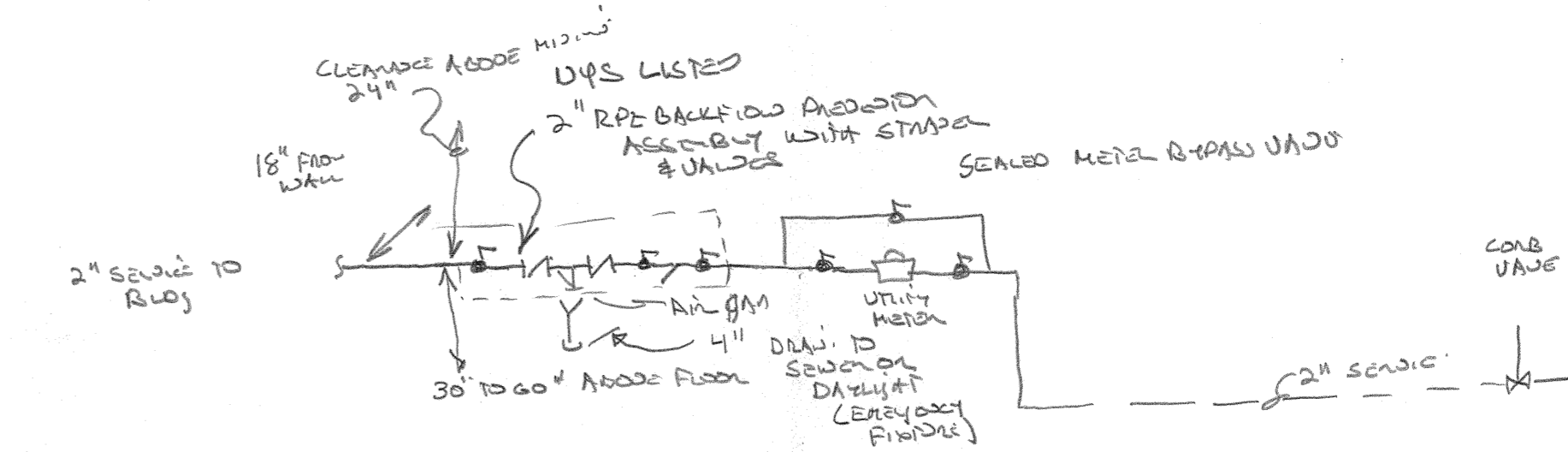
- BLACK & DARK BLUE (BASE DRAWING GIVEN TO CANDIDATE)
- GREEN - GUIDE TEXT
- CYAN - SANITARY
- RED - STORM

KEY2023

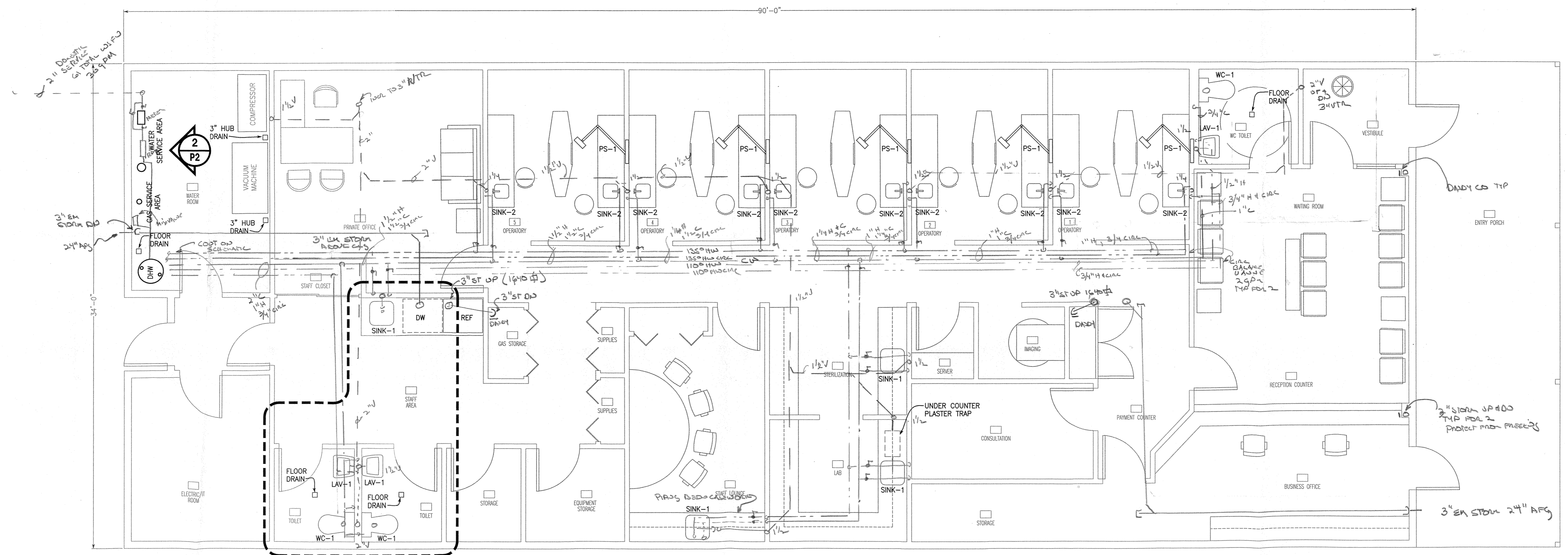
1/4" = 1'-0"

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PLUMBING FIXTURE SCHEDULE				
DESIGNATION	DESCRIPTION	CONNECTIONS SIZES		
		CW	HW	W
SINK-1	SINGLE BOWL STAINLESS STEEL SINK - WITH GOOSENECK SPOUT	1/2"	1/2"	1-1/2"
SINK-2	SINGLE BOWL BAR SINK - WITH GOOSENECK SPOUT	1/2"	1/2"	1-1/4"
LAV-1	HANDICAP BATHROOM SINK - CHINA - SINGLE LEVER	1/2"	1/2"	1-1/2"
WC-1	1.28 GPF HANDICAPPED FLUSH TANK WATER CLOSET	1/2"	-	3"
PS-1	PATIENT SERVICE UNIT	1/2"	-	-



**2 INCOMING WATER SERVICE DETAIL**  
NOT TO SCALE



**1 FIRST FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

	COLD	HOT	TOTAL	
2 PUBLIC WC TANK	5	110	5.0	
2 PUBLIC LAV 110"	1.5	2.0	2.0	
	6.5	11.5	18.0	1" PIPES EFF/SEE 208.3 GPM TO 115 GPM
SINK 2 (LAV 1.5 GPM)	2.25	2.25	3.0	
4 MORE	9.00	9.00	12.00	1" PIPES COLD 12.75 GPM
3 MORE	17.25	11.25	28.50	1.5" PIPES COLD 18.75 GPM
	6.15	6.75	12.90	1.5" PIPES COLD 15.6 GPM HOT 1.1"
2 MORE	24.50	17.00	41.50	2.5" PIPES COLD 18.4 GPM HOT 1.1"
	4.50	4.50	9.00	1.5" PIPES COLD 20.1 GPM HOT 1.1"
4 MORE	29.00	21.50	50.50	2.5" PIPES COLD 23.2 GPM HOT 1.1"
	9.00	9.00	18.00	2.5" PIPES COLD 17.0 GPM HOT 1.1"
2 PUBLIC WC TANK	10	10	20	
2 PUBLIC LAV 110"	3	3	6	
	51.00	4.5	55.50	30 GPM COLD 9 GPM HOT 1.1"

GUIDE KEY -2015-2023

1/4" = 1'-0"

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FIRST FLOOR PLAN & DETAIL

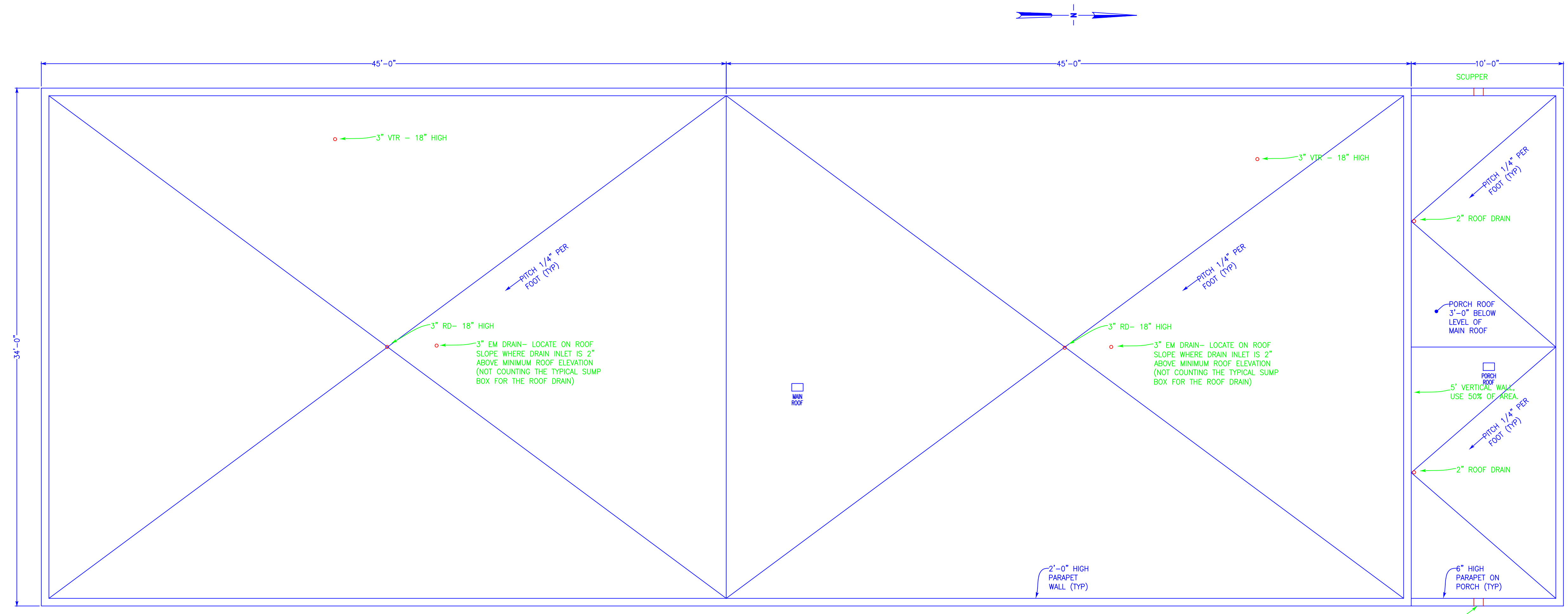
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Sheet No.

**P2**  
KEY



**1** ROOF PLAN  
**P3** SCALE: 1/4" = 1'-0"

**CALCULATIONS:**

SECTION 1106.2.1, EQUATION 11-1  
 GPM = R x A x 0.0104  
 R IS 3 INCHES PER HOUR PER DRAWING INSTRUCTIONS

ROOF 1 (SOUTH) 34' X 45' + 55' x 2' X 50% (DIAGONAL PARAPET) = 1530 + 55 = 1580 SQ FT.  
 GPM = 1580 X 3 X 0.0104 = 49.3 GPM.  
 DRAIN SHOULD HAVE OFFSET AT ROOF CONNECTION AND THEREFORE HORIZONTAL RUN. TABLE 1106.2:  
 3" AT 1/8" OK (55 GPM). (VERTICAL CAPACITY IS 87 GPM BUT NEED FLEXIBILITY AT ROOF CONNECTION.)

ROOF 2 (NORTH) SAME SIZE AND REQUIREMENTS AS ROOF 1

ROOF 3 (PORCH WEST) 10' X 17' + 17' X 5' X 50% (VERTICAL WALL) = 170 + 42.5 = 212.5 SQ FT.  
 GPM = 212.5 X 3 X 0.0104 = 6.63 GPM (ROUND TO 6.6). ASSUME HORIZONTAL RUN. 2" OK DOWN TO 1/16", VERTICAL OK AT 34 GPM.

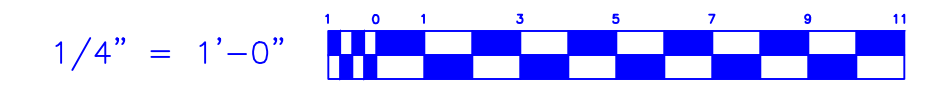
ROOF 4 (PORCH EAST) SAME SIZE AND REQUIREMENTS AS ROOF 3.

TOTAL ROOF LOAD 111.8 GPM. 4" AT 1/8" ALLOWABLE TO 115 GPM, 3" AT 1/2" IS 111 GPM SO JUST SHORT

**KEYCOLORS:**

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**ROOF PLAN**

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Scale

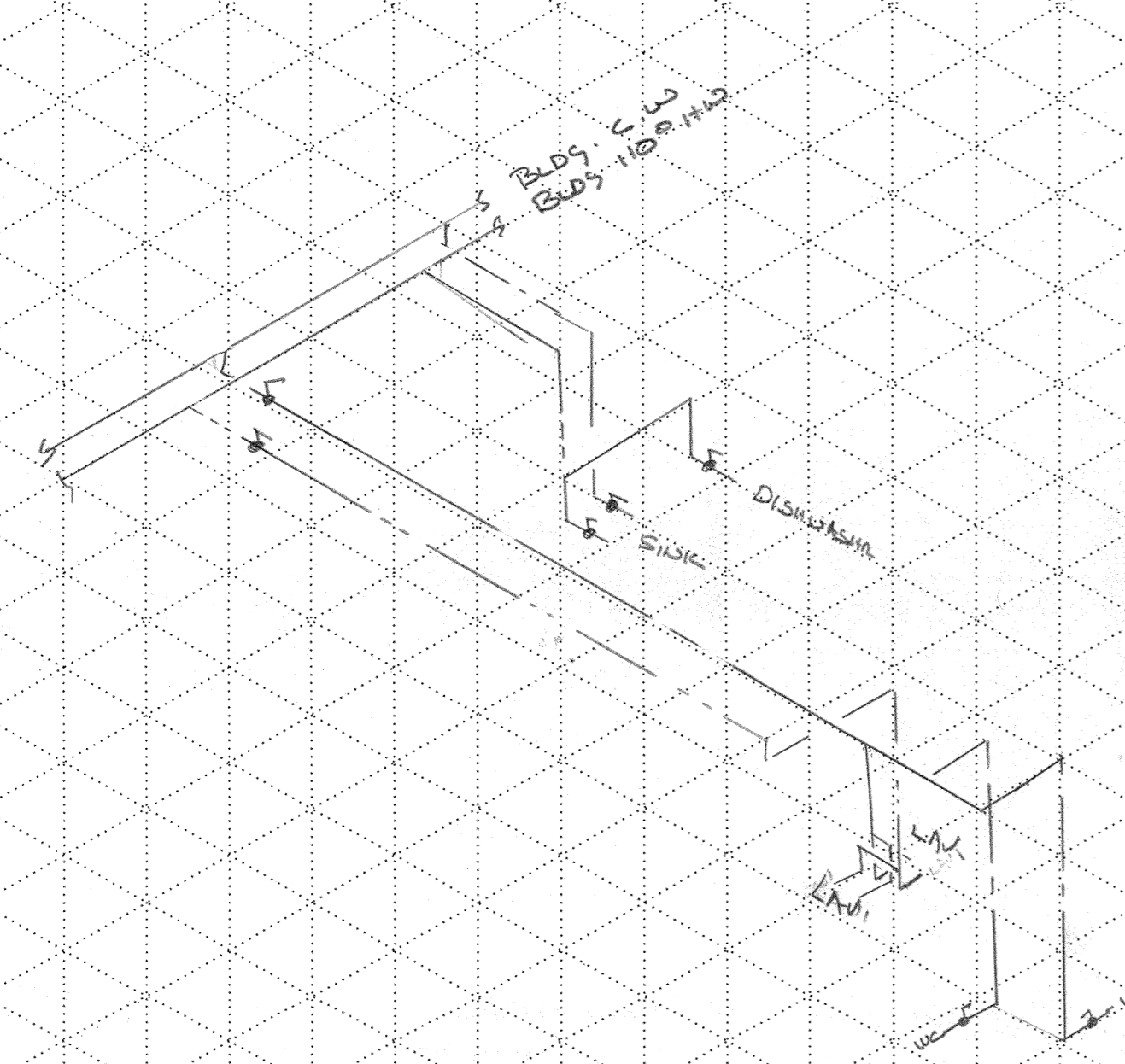
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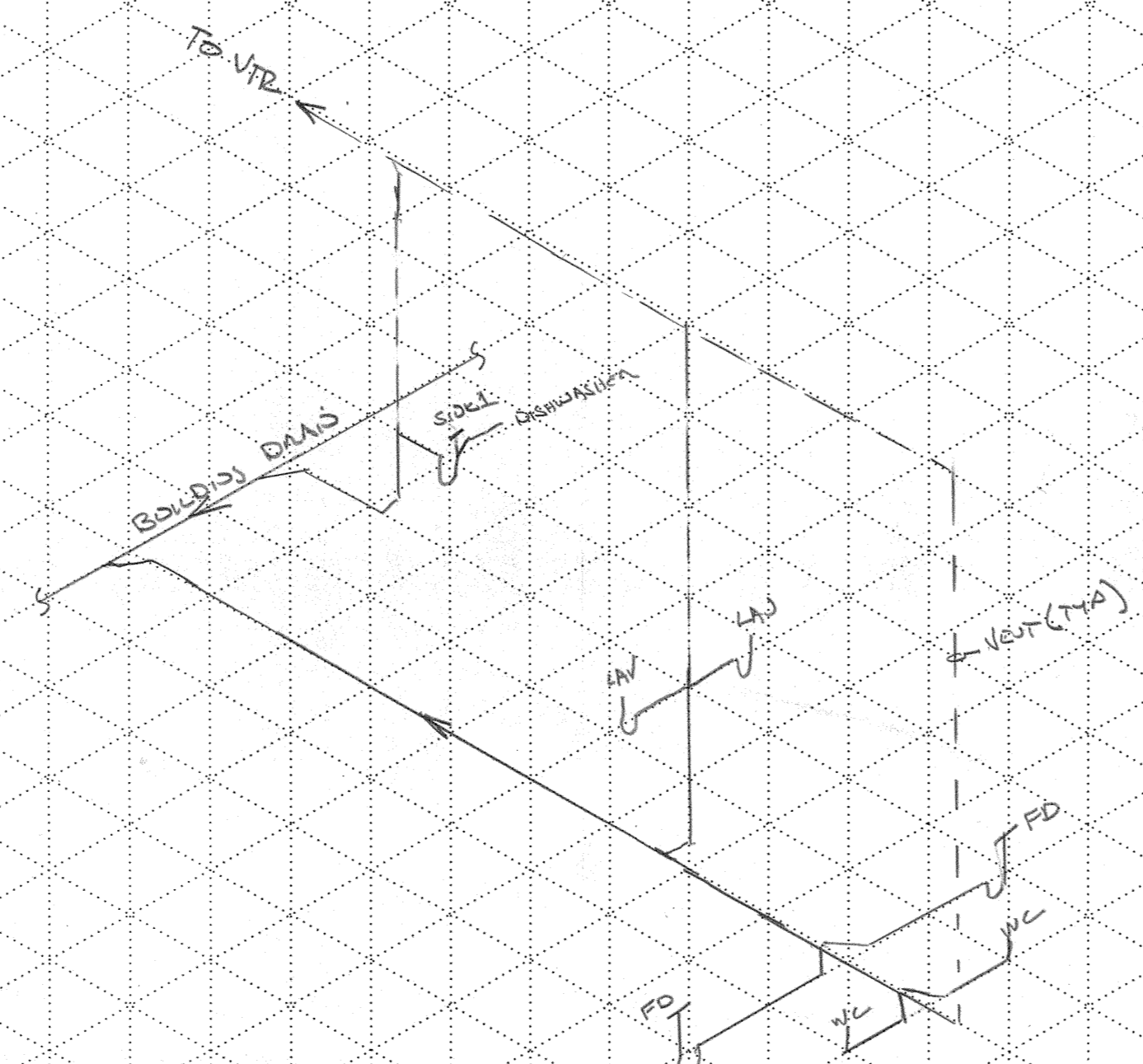
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**P3**  
**KEY**

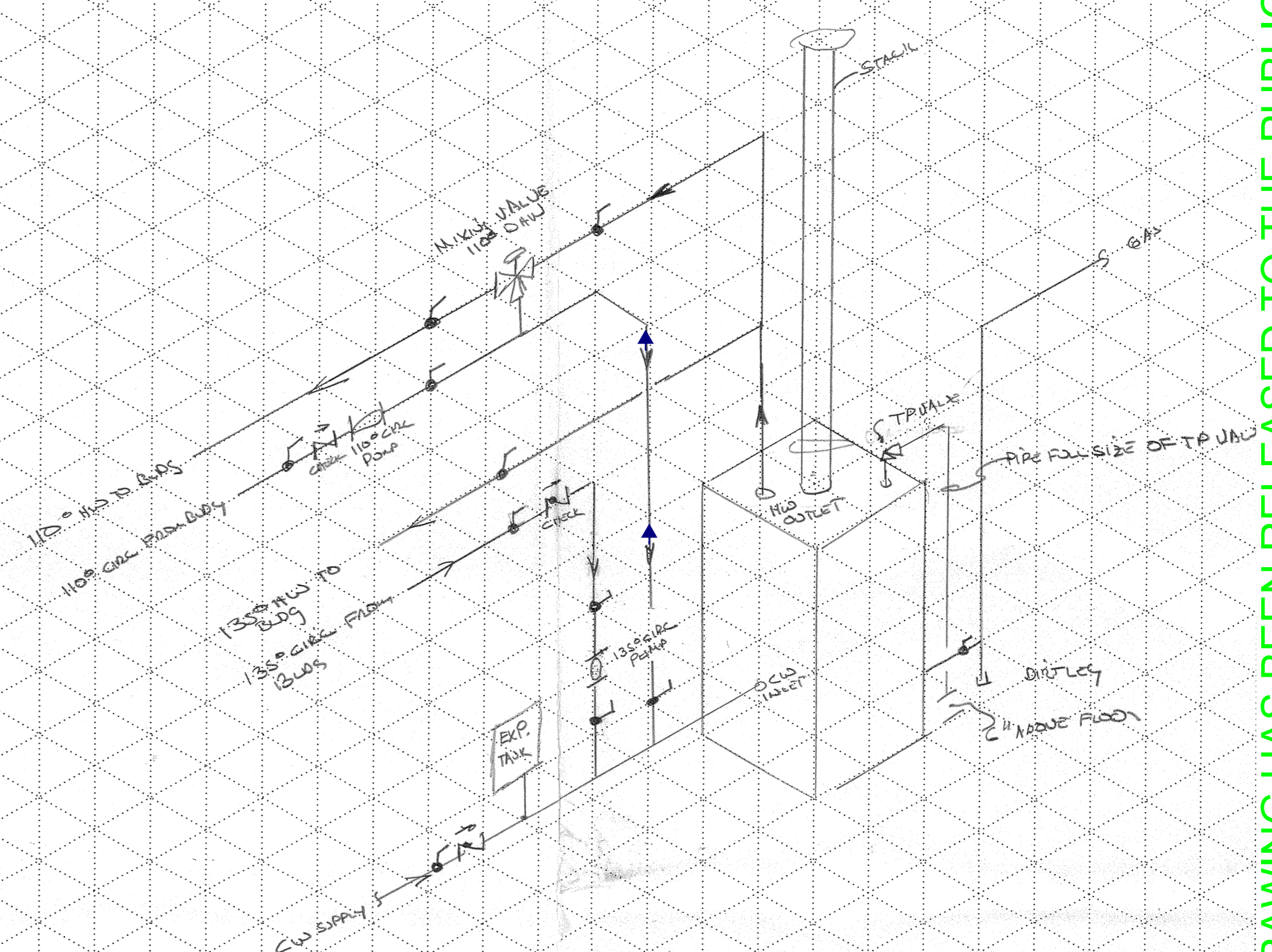
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1  
**TOILET ROOM  
 WATER SUPPLY ISOMETRIC**  
 P4 NOT TO SCALE



2  
**TOILET ROOM  
 WASTE & VENT ISOMETRIC**  
 P4 NOT TO SCALE



3  
**WATER HEATER  
 PLUMBING & VENT ISOMETRIC**  
 P4 NOT TO SCALE