SHEET NOTES:

- (A)— WASTE LINE CAPPED FOR FUTURE TI SPACE.
- (B) WASTE RISER UP TO LIVE WORK UNITS & PLUMBING FIXTURES ABOVE.
- GREASE WASTE CAPPED FOR FUTURE TI SPACE.
- TYPICAL WASTE RISER TO MEZZANINE CEILING SPACE, WITH BRANCH PIPING TO WASTE RISERS IN EACH DWELLING UNIT.

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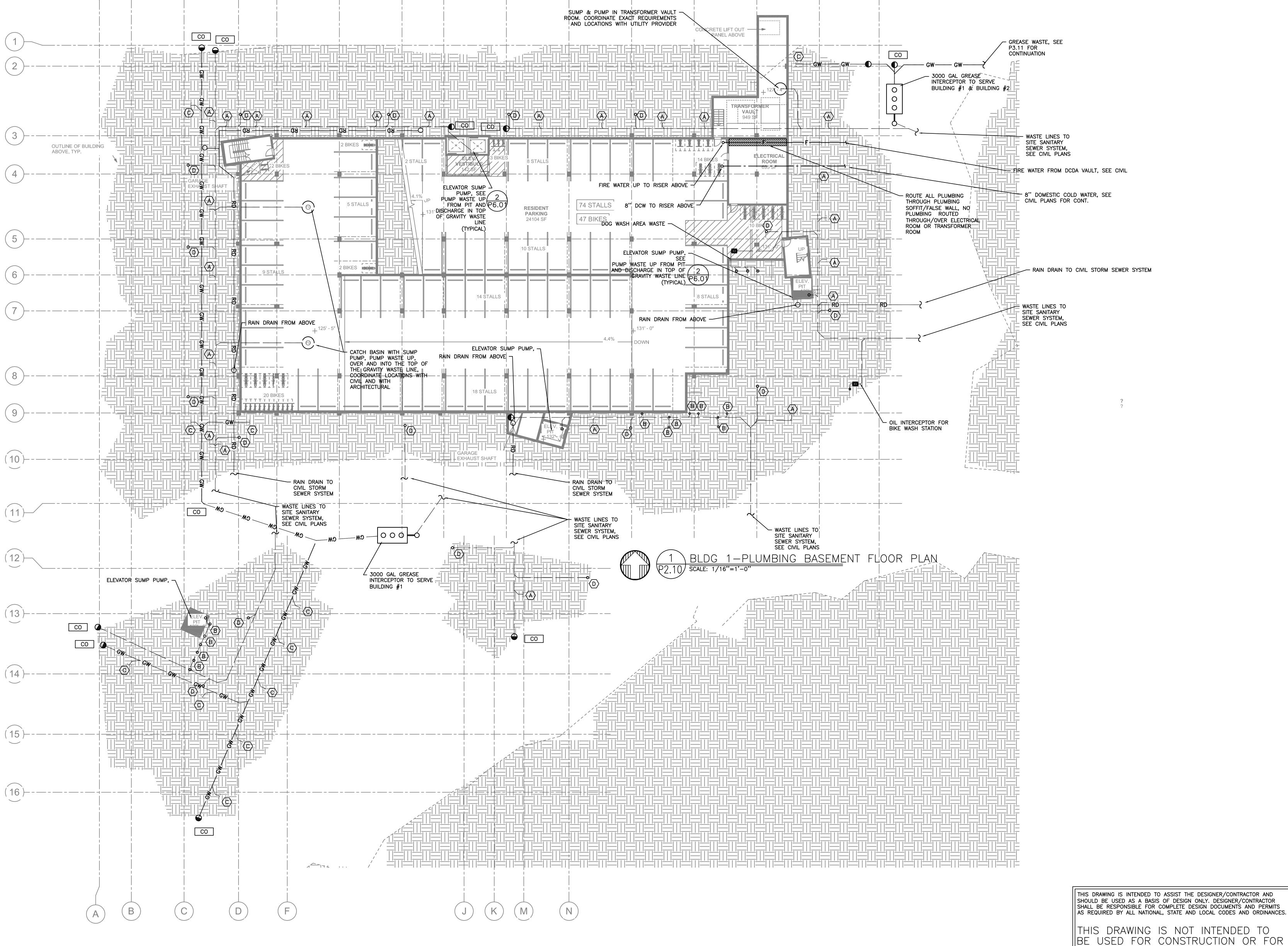
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BLDG 1 -**BASEMENT** LEVEL 01 FLOOR

PLAN

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SHEET NOTES:

(A)—— WASTE RISER FROM MEZZANINE ABOVE TO DOWN TO BELOW GRADE.

B PROVIDE IRRIGATION POINT OF CONNECTION, WITH BACKFLOW PREVENTION AND LINE STUBBED TO OUTSIDE BUILDING, AND ALSO ROUTED UP TO IRRIGATED DECK SPACES.



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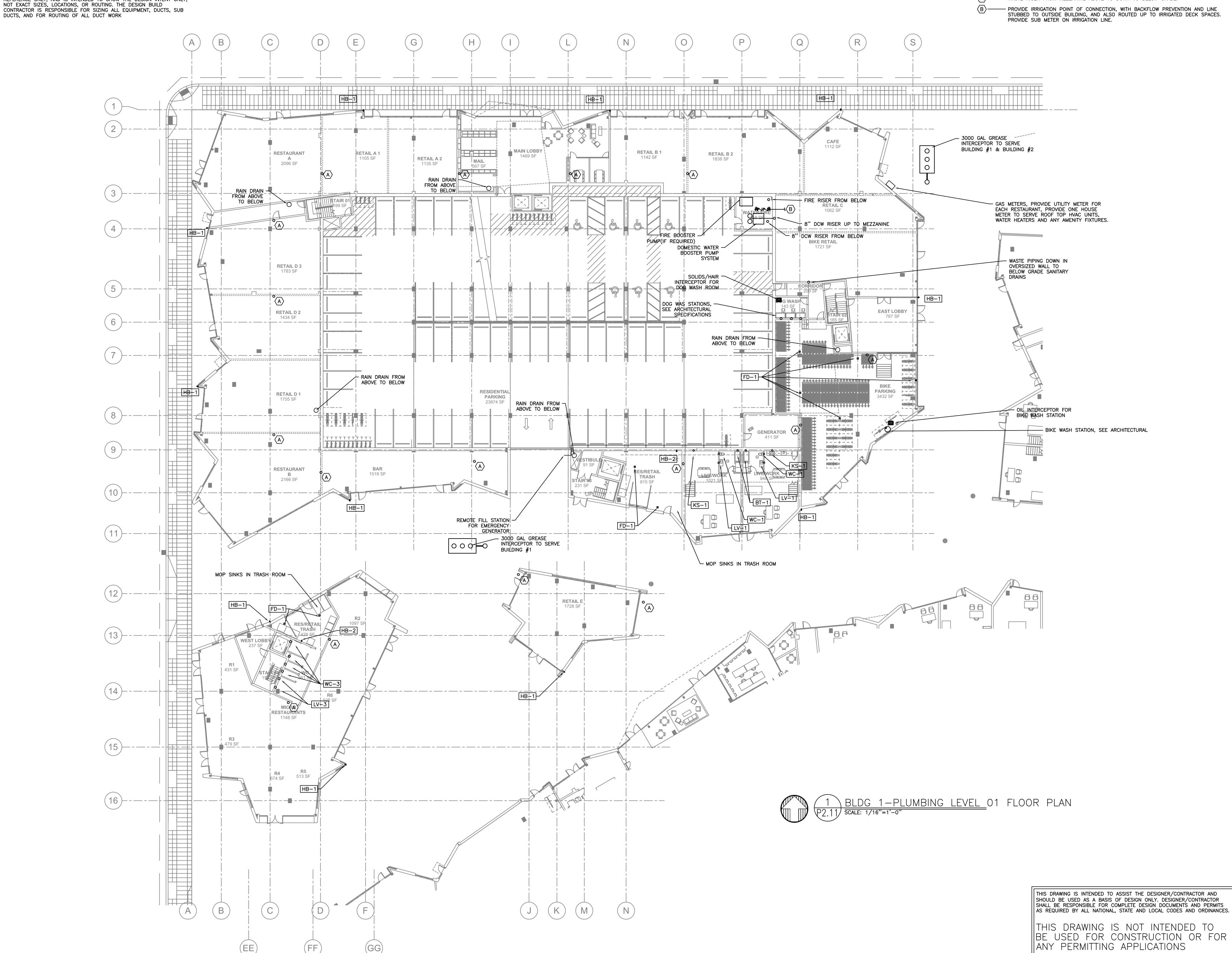
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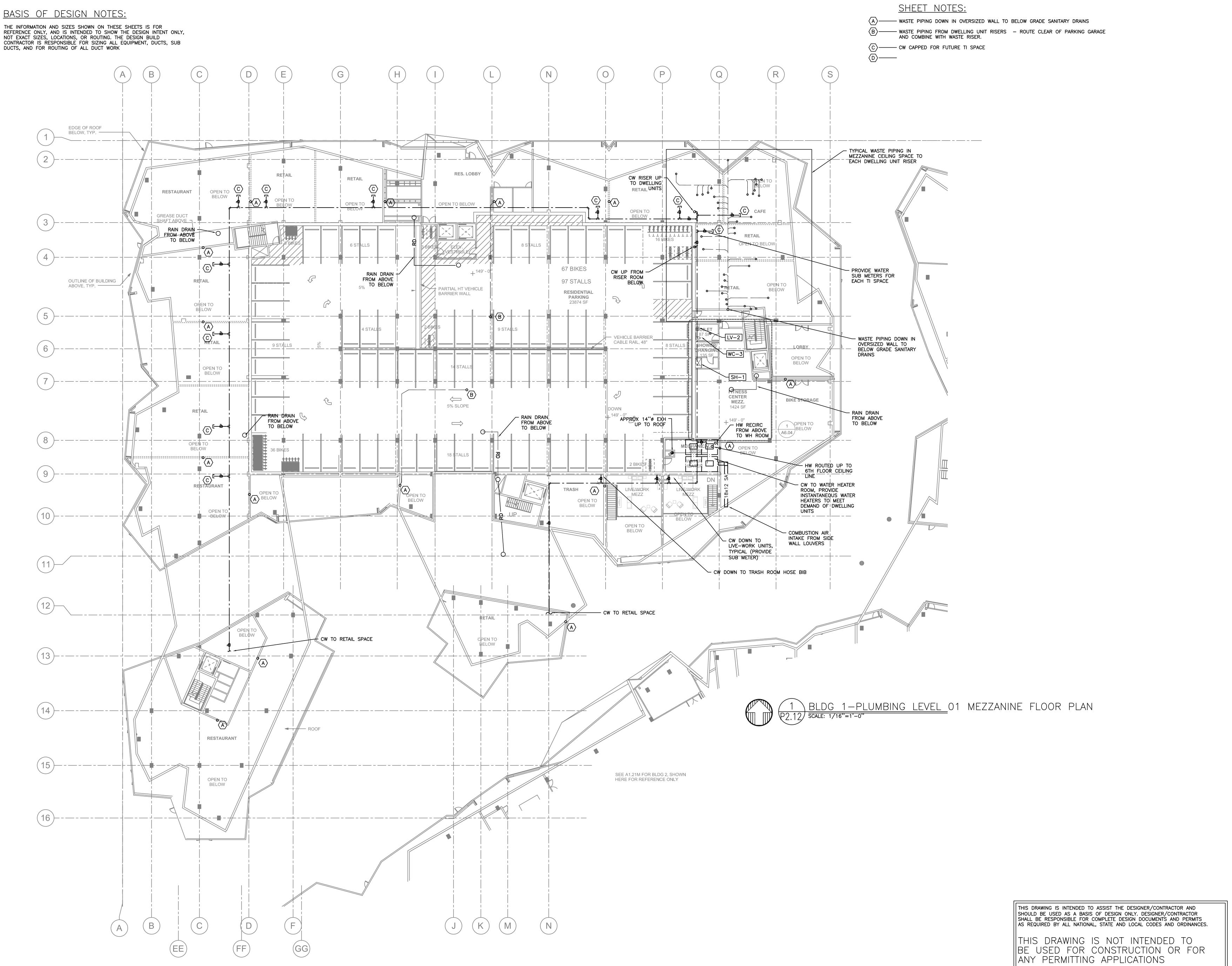
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BLDG 1 -PLUMBING LEVEL 01 MEZZANINE FLOOR

P2.12B1

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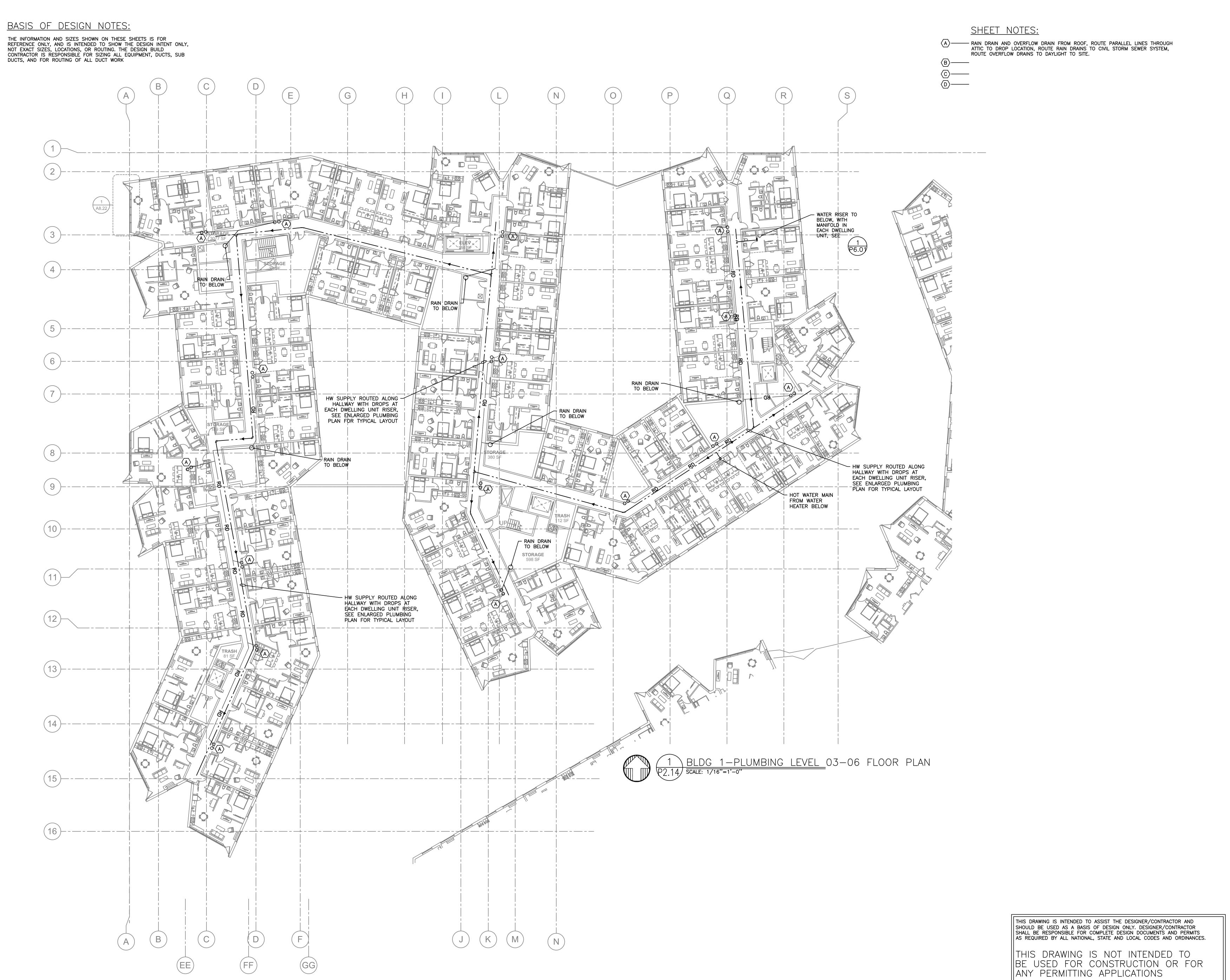
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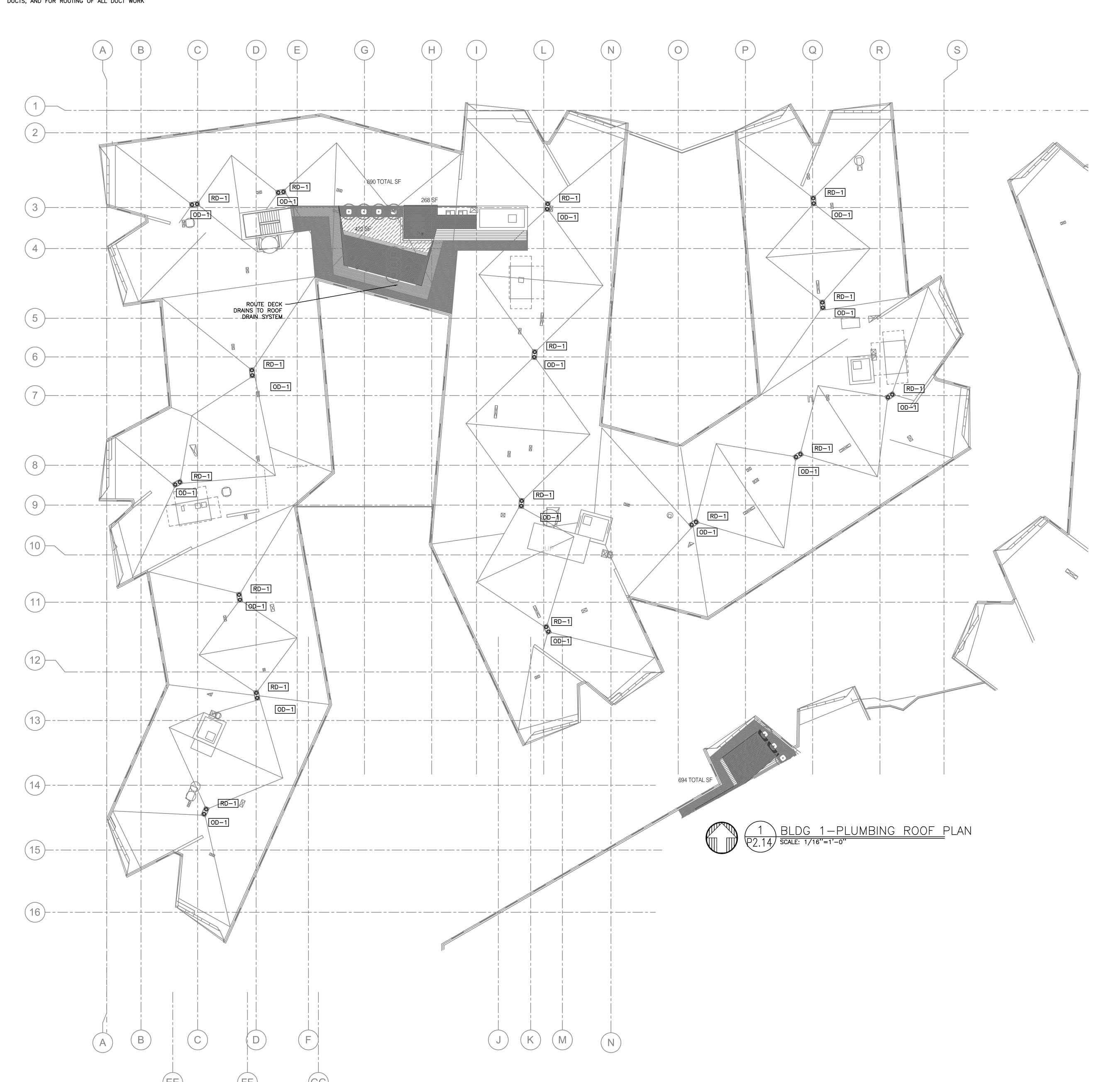
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PLUMBING LEVEL 03-06 FLOOR PLAN

P2.14B1

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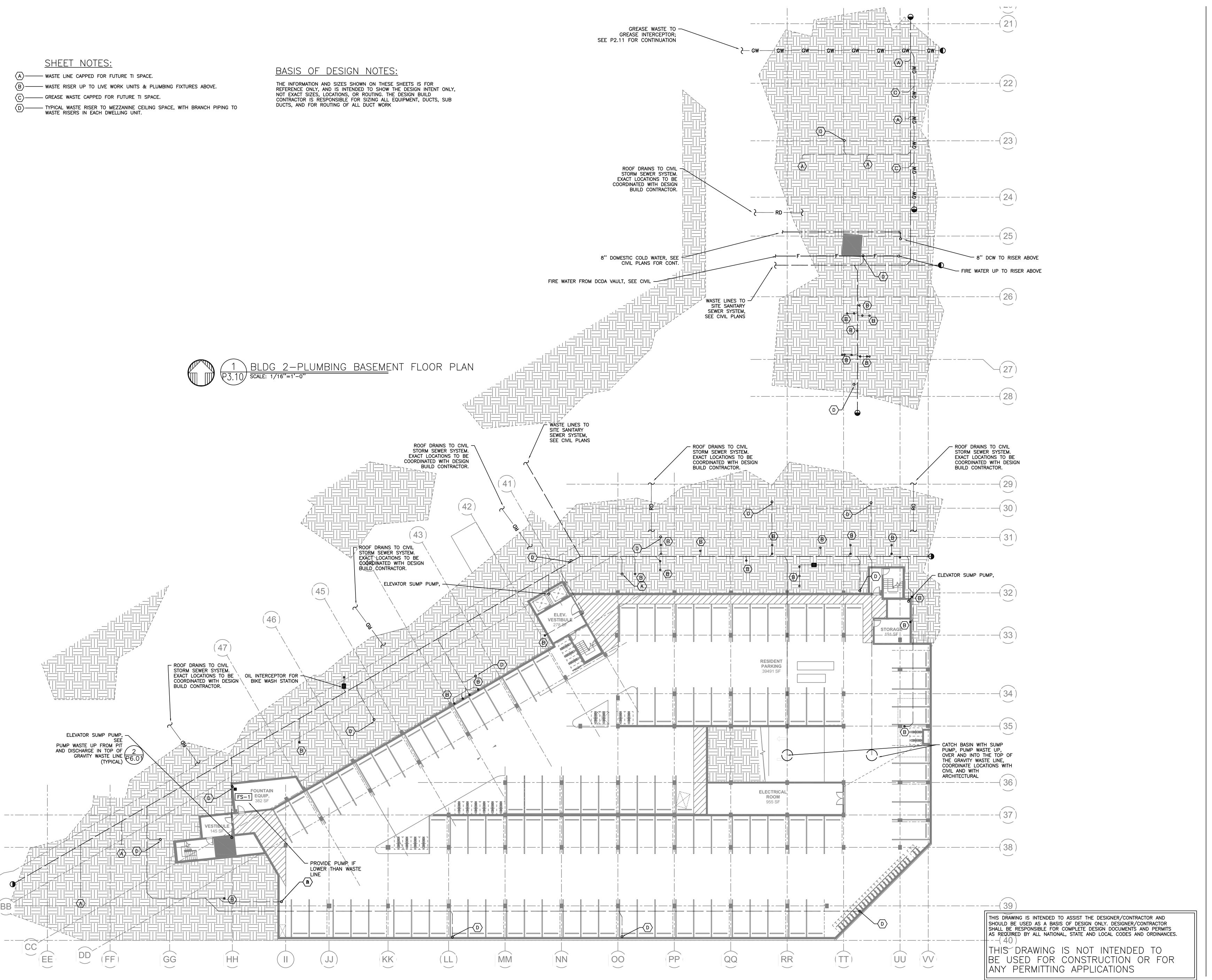
BLDG 1 -PLUMBING ROOF PLAN

P2.15B1

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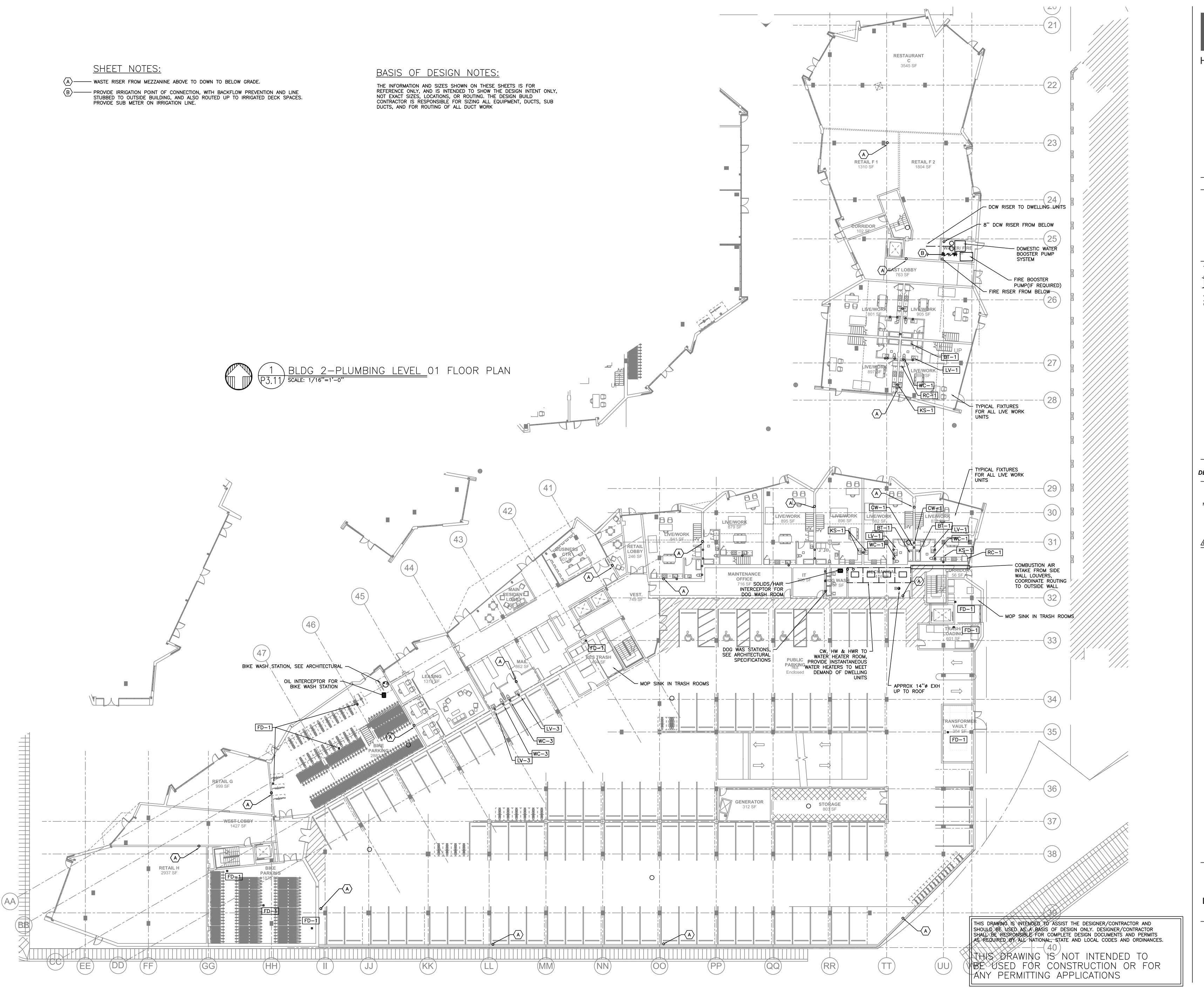
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BLDG 2 -BASEMENT LEVEL 01 FLOOR PLAN

P3.10B2



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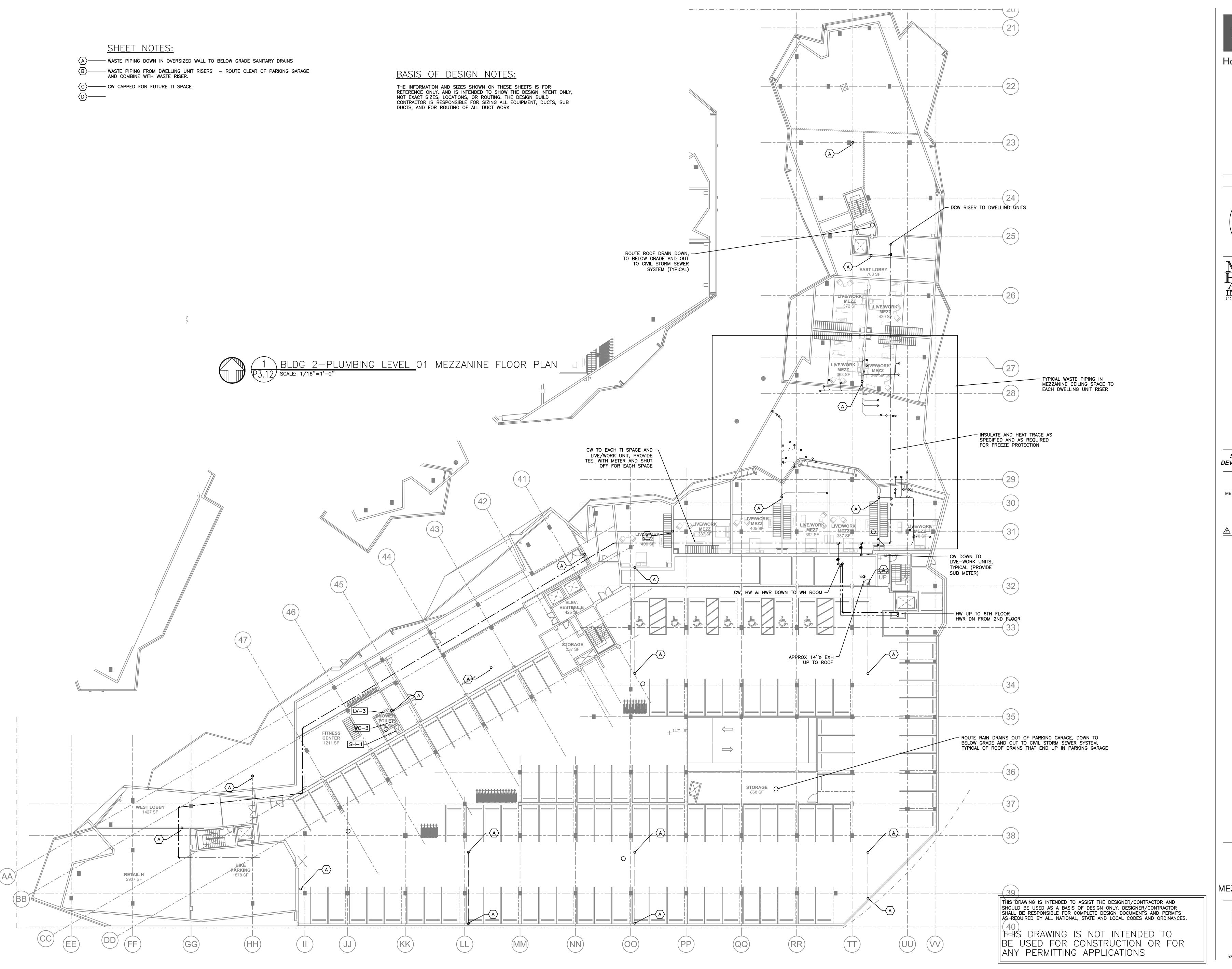
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PLUMBING LEVEL 01 FLOOR PLAN

P3.11B2



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PLUMBING LEVEL 01 MEZZANINE FLOOR

P3.12B2



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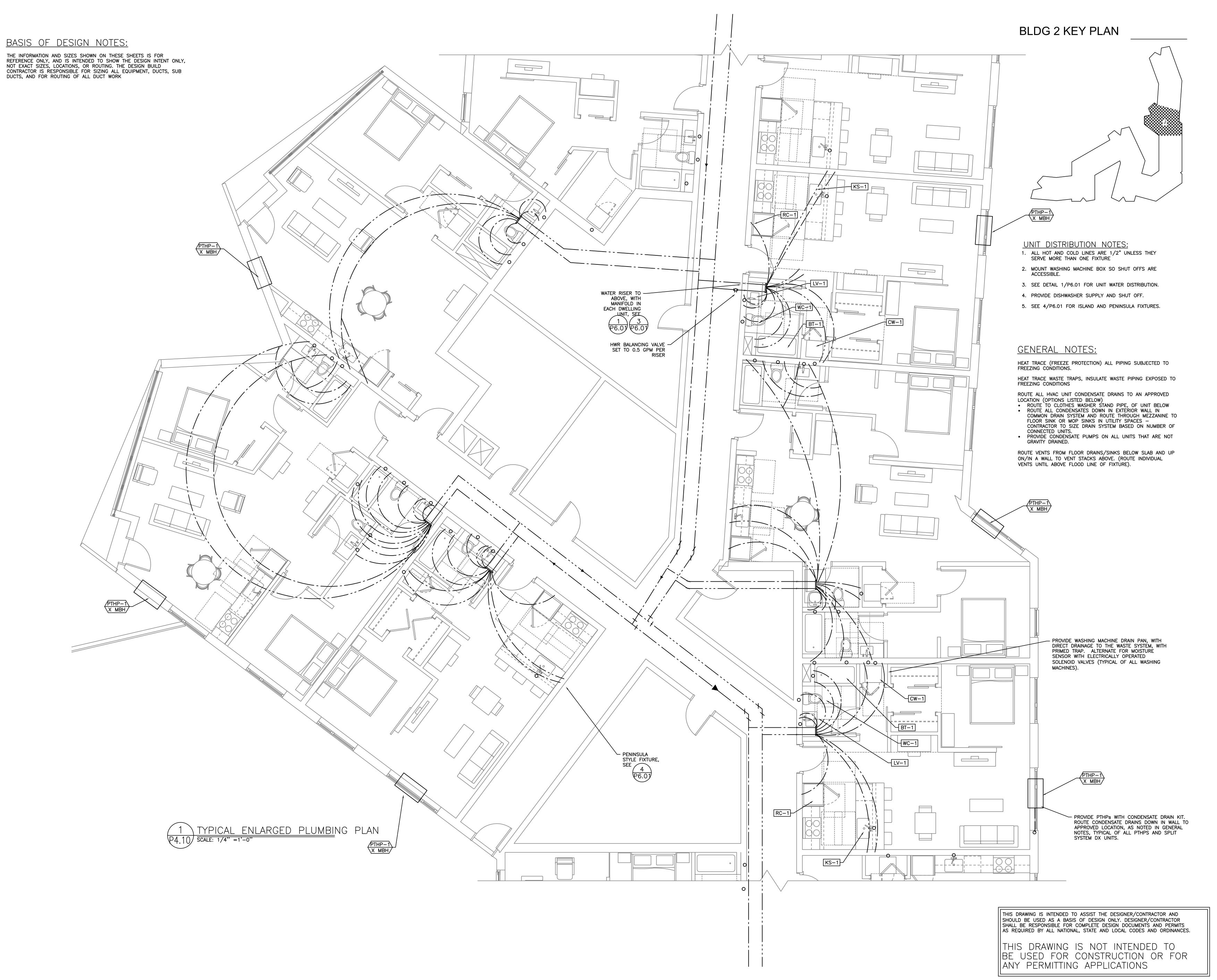
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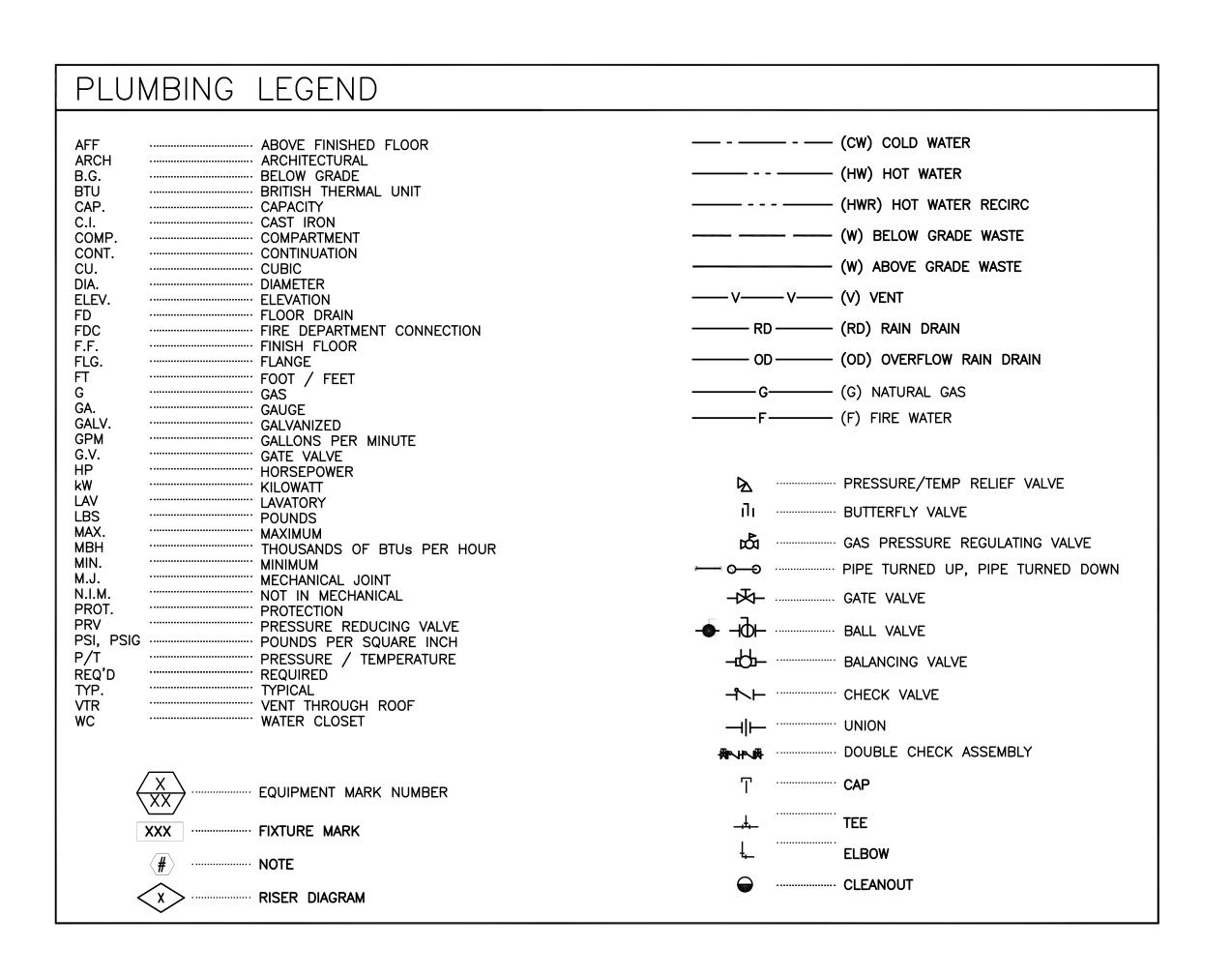
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ENLARGED UNIT PLANS

P4.10



MARK	FIXTURE	W		CW	HW	REMARKS
BT-1	BATH TUB	1-1/2"	1-1/2"	1/2"	1/2"	
BT-2	BATH TUB	1-1/2"	1-1/2"	1/2"	1/2"	ADA, GRAB BARS
CW-1	CLOTHES WASHER FITTING	2"	2"	1/2"	1/2"	W/ DRAIN PAN & DRAIN
RC-1	REFRIGERATOR CONNECT			1/2"		VALVE BOX WITH BALL VALVE
HB-1	HOSE BIB			3/4"		NON-FREEZE
HB-2	HOSE BIB (TRASH)			3/4"		INDOOR HB WITH KEY
LV-1	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	UNDER COUNTER MOUNT
LV-2	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	PUBLIC COUNTER MOUNT
LV-3	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	PUBLIC WALL HUNG
KS-1	KITCHEN SINK	2"	1-1/2"	1/2"	1/2"	DOUBLE COMPARTMENT WITH DISPOSAL
KS-2	KITCHEN SINK	2"	1-1/2"	1/2"	1/2"	DOUBLE COMPARTMENT WITH DISPOSAL, ADA
SH-1	SHOWER	2"	1-1/2"	1/2"	1/2"	
WC-1	WATER CLOSET	3"	2"	1/2"		FLOOR MOUNT, TANK TYPE
WC-2	WATER CLOSET	3"	2"	1/2"		FLOOR MOUNT, TANK TYPE, ADA
SP-1	SUMP PUMP	2"				50 GPM, 1/2 HP
FD-1	FLOOR DRAIN	3"	VL			SIOUX CHIEF
FD-2	FLOOR DRAIN	3"	VL			SIOUX CHIEF
RD-1	RAIN DRAIN	Χ"				
OD-1	OVERFLOW RAIN DRAIN	Χ"				GLUE-ON-NOZZLE
CB-1	CATCH BASIN	3"	2"			
СО	CLEAN OUT					

V.L. – VENTED LINE

PLUMBING CALCULATIONS Building #1			DOMES	TIC WATER S	SERVICE		SANITARY WASTE SERVICE		
IXTURE TYPE		NUMBER OF FIXTURES	WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	DRAINAGE FIXTURE UNITS	TOTAL DFU	
BATHTUB or COMBO BATH/SHOWER		370	4	1480	1110	1110	2	740	
CLOTHES WASHER		320	4	1280	960	960	3	960	
(ITCHEN SINK (GRINDER)		320	1.5	480	360	360	2	640	
AVATORY (SINGLE)		370	1	370	277.5	277.5	1	370	
ECEPTOR (INDIRECT WASTE)		3					1	3	
ECEPTOR (ELEVATOR SUMP)		4					100	400	
/ATER CLOSET (1.6 GPF TANK-PRIVATE)		370	2.5	925	925	0	3	1110	
OSE BIBB (FIRST ONE)		1	2.5	2.5	2.5	0			
IOSE BIBB (EACH ADDITIONAL)		5	1	5	5	0			
VATER CLOSET (1.6 GPF TANK-GENERAL)		4	2.5	10	10	0	4	16	
AVATORY (SINGLE)		4	1	4	3	3	1	4	
verage Full size Restaurant		3	0	63	51	36		87	
verage Micro Rest		11	0	66	49.5	49.5		99	
verage Retail		4	0	40	35	15		64	
	TOTAL	1789		4725.5	3788.5	2811		4493	
		GPM		650	500	420			
		Size		8"	6"	6"	WASTE SIZE	10"	
		METER SIZE		See Civil	•	ŭ		. •	

PLUMBING CALCULATIONS — 1—Bedroom			DOMESTI		SANITARY WASTE SERVICE			
FIXTURE TYPE		NUMBER OF FIXTURES	WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	DRAINAGE FIXTURE UNITS	TOTAL DFU
BATHTUB or COMBO BATH/SHOWER		1	4	4	3	3	2	2
CLOTHES WASHER		1	4	4	3	3	3	3
KITCHEN SINK (GRINDER)		1	1.5	1.5	1.125	1.125	2	2
LAVATORY (SINGLE)		1	1	1	0.75	0.75	1	1
WATER CLOSET (1.6 GPF TANK-PRIVATE)		1	2.5	2.5	2.5	0	3	3
	TOTAL	5		13	10.375	7.875		11
		GPM			8	7		
		SIZE			1"	3/4"	WASTE SIZE	

PLUMBING CALCULATIONS - 2-Bedroom			DOMEST	IC WATER	SERVICE		SANITARY WASTE SERVICE		
FIXTURE TYPE		NUMBER OF FIXTURES	WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	DRAINAGE FIXTURE UNITS	TOTAL DFU	
BATHTUB or COMBO BATH/SHOWER CLOTHES WASHER KITCHEN SINK (GRINDER)		2 1 1	4 4 1.5	8 4 1.5	6 3 1.125	6 3 1.125	2 3 2	4 3 2	
LAVATORY (SINGLE) WATER CLOSET (1.6 GPF TANK-PRIVATE)		2 2	1 2.5	2 5	1.5 5	1.5 0	1 3	2 6	
	TOTAL	8 GPM SIZE		20.5	16.625 12 1"	11.625 9 3/4"	WASTE SIZE	17	

			DOMEST		SANITARY WASTE SERVICE				
FIXTURE TYPE		NUMBER OF FIXTURES	WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	DRAINAGE FIXTURE UNITS	TOTAL DFU	
BAR SINK (GENERAL USE)		1	2	2	1.5	1.5	2	2	
LAVATORY (SINGLE)		2	1	2	1.5	1.5	1	2	
MOP BASIN		1	3	3	2.25	2.25	3	3	
SINK GENERAL (1-1/2" TRAP)		2	1.5	3	2.25	2.25	3	6	
SINK GENERAL (2" TRAP)		2	3	6	4.5	4.5	4	8	
WATER CLOSET (1.6 GPF TANK-GENERAL)		2	2.5	5	5	0	4	8	
,	TOTAL	10		21	17	12		29	
		GPM				WASTE SIZE			

			DOMESTIC WATER SERVICE SANITARY WASTE SER						
FIXTURE TYPE		NUMBER OF FIXTURES	WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	DRAINAGE FIXTURE UNITS	TOTAL DFU	
BAR SINK (GENERAL USE)		0	2	0	0	0	2	0	
LAVATORY (SINGLE)		0	1	0	0	0	1	0	
MOP BASIN		1	3	3	2.25	2.25	3	3	
SINK GENERAL (1–1/2" TRAP)		2	1.5	3	2.25	2.25	3	6	
SINK GENERAL (2" TRAP)		0	3	0	0	0	4	0	
WATER CLOSET (1.6 GPF TANK-GENERAL)		0	2.5	0	0	0	4	0	
,	TOTAL	3		6	4.5	4.5		9	
		GPM					WASTE SIZE		

		DOMESTIC WATER SERVICE SANITARY WAST							
FIXTURE TYPE		NUMBER OF FIXTURES	WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	DRAINAGE FIXTURE UNITS	TOTAL DFU	
BAR SINK (GENERAL USE)		0	2	0	0	0	2	0	
LAVATORY (SINGLE)		2	1	2	1.5	1.5	1	2	
MOP BASIN		0	3	0	0	0	3	0	
SINK GENERAL (1-1/2" TRAP)		2	1.5	3	2.25	2.25	3	6	
SINK GENERAL (2" TRAP)		0	3	0	0	0	4	0	
WATER CLOSET (1.6 GPF TANK-GENERAL)		2	2.5	5	5	0	4	8	
,	TOTAL	6		10	8.75	3.75		16	
		GPM					WASTE SIZE		

			DOMES	TIC WATER S	SERVICE		SANITARY WASTE S	ERVICE
FIXTURE TYPE		NUMBER OF FIXTURES	WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	DRAINAGE FIXTURE UNITS	TOTAL DFU
BATHTUB or COMBO BATH/SHOWER		420	4	1680	1260	1260	2	840
CLOTHES WASHER		375	4	1500	1125	1125	3	1125
KITCHEN SINK (GRINDER)		375	1.5	562.5	421.875	421.875	2	750
LAVATORY (SINGLE)		420	1	420	315	315	1	420
RECEPTOR (INDIRECT WASTE)		3					1	3
RECEPTOR (ELEVATOR SUMP)		3					100	300
WATER CLOSET (1.6 GPF TANK-PRIVATE)		420	2.5	1050	1050	0	3	1260
HOSE BIBB (FIRST ONE)		1	2.5	2.5	2.5	0		
HOSE BIBB (EACH ADDITIONAL)		5	1	5	5	0		
WATER CLOSET (1.6 GPF TANK-GENERAL)		5	2.5	12.5	12.5	0	4	20
LAVATORY (SINGLE)		5	1	5	3.75	3.75	1	5
Average Full size Restaurant		1	0	21	17	12		29
Average Micro Rest		1	0	6	4.5	4.5		9
Average Retail		2	0	20	17.5	7.5		32
	TOTAL	2036		5284.5	4234.625	3149.625		4793
		GPM		700	600	450		
		Size		8"	6"	6"	WASTE SIZE	10"
	N	IETER SIZE		See Civil				

		DOMESTIC WATER SERVICE SANITARY WASTE SERVICE							
FIXTURE TYPE		NUMBER OF FIXTURES	WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	DRAINAGE FIXTURE UNITS	TOTAL DFU	
BATHTUB or COMBO BATH/SHOWER		1	4	4	3	3	2	2	
CLOTHES WASHER		1	4	4	3	3	3	3	
KITCHEN SINK (GRINDER)		1	1.5	1.5	1.125	1.125	2	2	
LAVATORY (SINGLE)		1	1	1	0.75	0.75	1	1	
WATER CLOSET (1.6 GPF TANK-PRIVATE)		1	2.5	2.5	2.5	0	3	3	
	TOTAL	5		13	10.375	7.875		11	
		GPM			8	7			
		SIZE			1"	3/4"	WASTE SIZE		

PLUMBING CALCULATIONS - 2-Bedroom								
			DOMEST	IC WATER	SERVICE		SANITARY WASTE S	ERVICE
FIXTURE TYPE		NUMBER OF FIXTURES	WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	DRAINAGE FIXTURE UNITS	TOTAL DFU
BATHTUB or COMBO BATH/SHOWER		2	4	8	6	6	2	4
CLOTHES WASHER		1	4	4	3	3	3	3
KITCHEN SINK (GRINDER)		1	1.5	1.5	1.125	1.125	2	2
LAVATORY (SINGLE)		2	1	2	1.5	1.5	1	2
WATER CLOSET (1.6 GPF TANK-PRIVATE)		2	2.5	5	5	0	3	6
	TOTAL	8		20.5	16.625	11.625		17
		GPM			12	9		
		SIZE			1"	3/4"	WASTE SIZE	

			DOMEST	IC WATER		SANITARY WASTE SERVICE			
FIXTURE TYPE		NUMBER OF FIXTURES	WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	DRAINAGE FIXTURE UNITS	TOTAL DFU	
BAR SINK (GENERAL USE)		1	2	2	1.5	1.5	2	2	
LAVATORY (SINGLE)		2	1	2	1.5	1.5	1	2	
MOP BASIN		1	3	3	2.25	2.25	3	3	
SINK GENERAL (1–1/2" TRAP)		2	1.5	3	2.25	2.25	3	6	
SINK GENERAL (2" TRAP)		2	3	6	4.5	4.5	4	8	
NATER CLOSET (1.6 GPF TANK-GENERAL)		2	2.5	5	5	0	4	8	
, ,	TOTAL	10		21	17	12		29	
		GPM				WASTE SIZE			

PLUMBING CALCULATIONS — Average Micro			DOMEST	C WATER		SANITARY WASTE SERVICE		
FIXTURE TYPE		NUMBER OF FIXTURES	WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	DRAINAGE FIXTURE UNITS	TOTAL DFU
BAR SINK (GENERAL USE)		0	2	0	0	0	2	0
LAVATORY (SINGLE)		0	1	0	0	0	1	0
MOP BASIN		1	3	3	2.25	2.25	3	3
SINK GENERAL (1-1/2" TRAP)		2	1.5	3	2.25	2.25	3	6
SINK GENERAL (2" TRAP)		0	3	0	0	0	4	0
WATER CLOSET (1.6 GPF TANK-GENERAL)		0	2.5	0	0	0	4	0
,	TOTAL	3		6	4.5	4.5		9
		GPM					WASTE SIZE	

		DOMESTIC WATER SERVICE SANITARY					SANITARY WASTE S	Y WASTE SERVICE	
FIXTURE TYPE		NUMBER OF FIXTURES	WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	DRAINAGE FIXTURE UNITS	TOTAL DFU	
BAR SINK (GENERAL USE)		0	2	0	0	0	2	0	
LAVATORY (SINGLE)		2	1	2	1.5	1.5	1	2	
MOP BASIN		0	3	0	0	0	3	0	
SINK GENERAL (1–1/2" TRAP)		2	1.5	3	2.25	2.25	3	6	
SINK GENERAL (2" TRAP)		0	3	0	0	0	4	0	
WATER CLOSET (1.6 GPF TANK-GENERAL)		2	2.5	5	5	0	4	8	
,	TOTAL	6		10	8.75	3.75		16	
		GPM			WASTE SIZE				

Holst Architecture

1400 NE MULTNOMAH

Portland, OR 97214

www.holstarc.com

JOB NO. 15021.00

PRELIMINARY

NOT FOR

CONSTRUCTION

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50% DESIGN DEVELOPMENT 4.26.2016 issue: date:

/ revision list

sheet titl

PLUMBING DETAILS AND SCHEDULES

P6.00

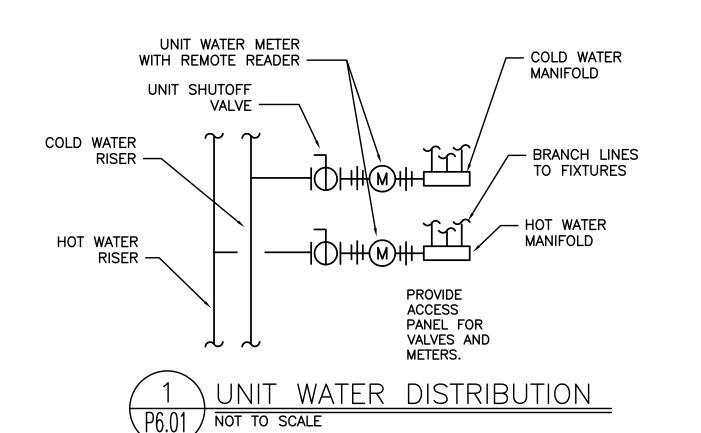
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BASIS OF DESIGN NOTES:

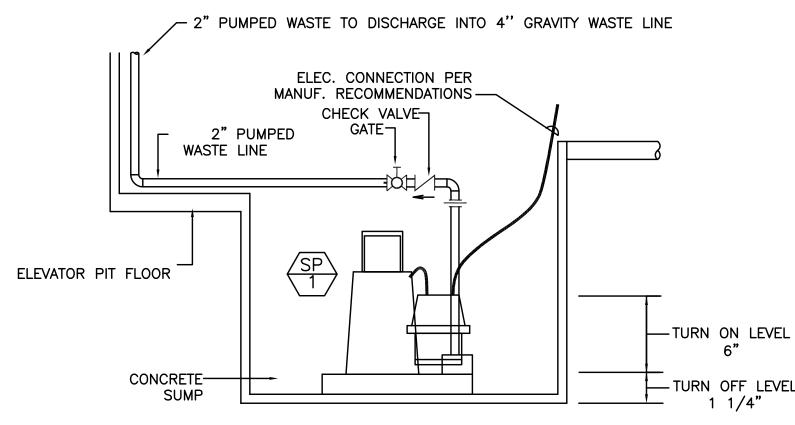
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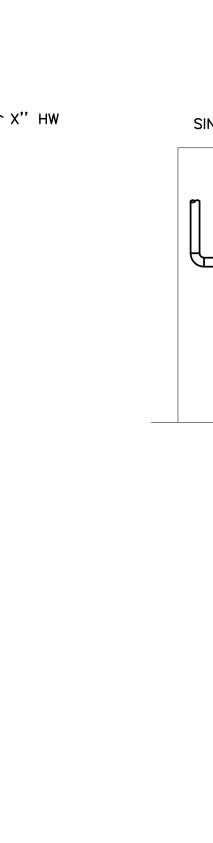


TO UNIT MANIFOLD, SEE



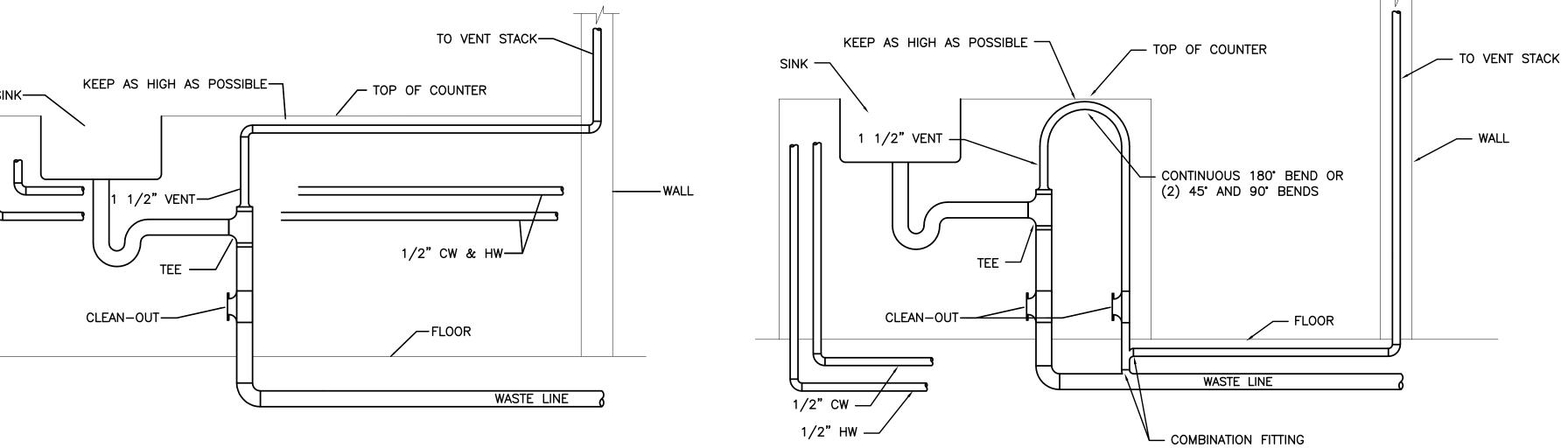
	SUMP PU	MP
	MARK NUMBER	SP 1
	SYSTEM	ELEVATOR
	TYPE	SUMP *
EL	FLOW RATE (GPM)	50
	HEAD (FT H2O)	25
√EL	POWER (HP)	1/2 HP
	* - PROVIDE W/ PL CONNECTION FO	



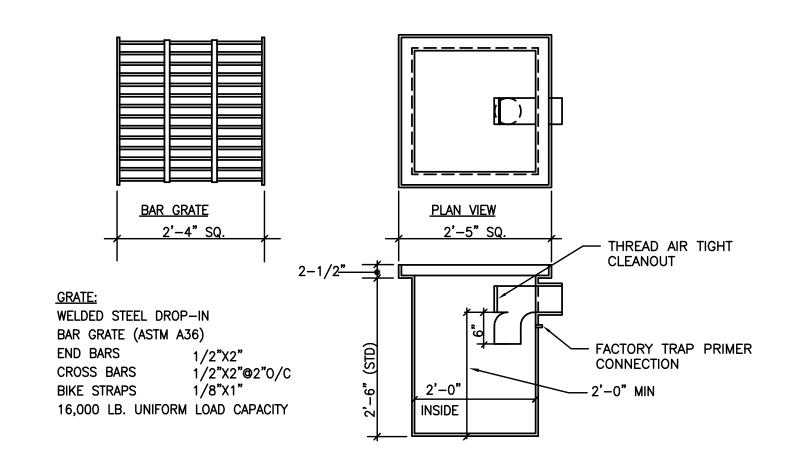


1/2" HWR, WITH BALANCING VALVE SET TO 0.5 GPM

TYPICAL RISER WATER
P6.01 NOT TO SCALE



4 PENINSULA & ISLAND FIXTURES
P6.01 NO SCALE



BASIN
WELDED 10 GA. MILD STEEL, COATED ALL SURFACES WITH
ASPHALTIC PAINT

OUTLET STUB

FOR NO HUB CONNECTOR. SIZE AS REQ'D FOR INDICATED

PIPE (SEE PLAN)

5 CATCH BASIN NOT TO SCALE

sheet title

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50% DESIGN DEVELOPMENT

MEP Design Assist

revision list

CONTACT: MARK DENYER/ROB CONNELL

MULTNOMAH

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