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03/03/2023 4:47:36 PM

PLUMBING DRAWING / REVISION LOG					
● NEW OR REVISED ISSUE ○ NON REVISED ISSUE		DATE:	08/08/2022		
		ISSUE:	ISSUED FOR PERMIT	ROOF DRAIN REVISION	
NUMBER	NAME				
P-001	PLUMBING COVER SHEET	●	○		
P-100	PLUMBING UNDERGROUND DRAINAGE PLAN	●			
P-101	PLUMBING FIRST FLOOR DRAINAGE PLAN	●			
P-102	PLUMBING SECOND FLOOR DRAINAGE PLAN	●			
P-103	PLUMBING ROOF DRAINAGE PLAN	●	●		
P-104	PLUMBING FIRST FLOOR SUPPLY PLAN	●			
P-105	PLUMBING SECOND FLOOR SUPPLY PLAN	●			
P-106	PLUMBING ROOF SUPPLY PLAN	●			
P-201	PLUMBING RISER DIAGRAMS	●	●		
P-301	PLUMBING SPECIFICATIONS	●			
P-401	PLUMBING DETAILS	●			

FLOOR DRAIN SCHEDULE							
TAG	LOCATION	MAKE	MODEL	DISCRIPTION	OUTLET SIZE	TRAP SEAL	TRAP PRIMER
FD-1	BATHROOMS	ZURN	Z415-6S-2NH	FLOOR DRAIN 6" SQUARE, 2" NO-HUB OUTLET	2"	4"	YES
TD-1	WATER SPRINKLER PLAY AREA	ZURN	Z884	TRENCH DRAIN, 3" NO-HUB OUTLET	3"	-	NO
FFD-1	HVAC CLOSET	ZURN	Z415E-4NH	FUNNEL FLOOR DRAIN, 4" FUNNEL, 4" NO-HUB OUTLET	4"	4"	YES

NOTES:
1. ALL TRAPPED FLOOR DRAINS SHALL BE INSTALLED WITH AN ASSE 1018 OR ASSE 1044 TRAP SEAL PROTECTION DEVICE.

BACKFLOW PREVENTERS / VACUUM BREAKERS SCHEDULE				
APPLICATION	MFR.	MODEL #	DISCRIPTION	
PLAYGROUND SPRINKLER	WATTS	1" LF009	1" REDUCED PRESSURE ZONE ASSEMBLY LOCATED IN SPRINK. ROOM 104	
COFFEE MAKER	WATTS	LF288AC	-	
REFRIG./ICE MAKER	WATTS	LFN9C	DUAL CHECK WITH ATMOSPHERIC VENT	
WATER HEATER	WATTS	LF7	SINGLE CHECK	

NOTES:
1. ADDITIONAL BACKFLOW PREVENTER OR VACUUM BREAKERS ARE NOT REQUIRED WHERE SUCH DEVICES ARE INSTALLED INTEGRAL TO THE EQUIPMENT.

RECIRCULATION PUMP SCHEDULE							
ITEM NO.	MANUFACTURER	MODEL	VOLTAGE	HP	RPM	GPM	FT. HD.
RP-1	TACO	006-B4-PNP	115/1/60	1/40	3250	2.0	9

NOTES:
1. RECIRCULATION PUMP IS PROVIDED WITH A AN INTEGRAL TIMER TO CONTROL PUMP ON / OFF TIMES OF DAY. PUMP TO BE PROVIDED WITH AND CONTROLLED BY AN AQUISTAT TO BE COORDINATED WITH THE LINE TEMPERATURE.

ELECTRIC HOT WATER HEATERS											
TAG	CAPACITY (GAL.)	RECOVERY @ 100°F RISE (GPH)	ELEMENT POWER (kW)	U.E.F.	TEMP. SET POINT	POWER REQ. (V/PH)	FLA	MOCp	DIAMETER (IN.)	HEIGHT (IN.)	WATER CONN. (IN.)
WH-1	80	36	(2) 4.5	0.92	140°F	208/1	43.2	-	24	59½"	1
A.O. SMITH DEN-80			NOTES 1, 2, 3								

NOTES:
1. PROVIDE ALL PIPING ACCESSORIES AND APPURTENANCES AS PER THE HOT WATER HEATER INSTALLATION DETAIL.
2. SIMULTANEOUS OPERATION CONFIGURATION, 9KW TOTAL.
3. HOT WATER TEMPERATURE MUST NEVER EXCEED 110°F AT ANY FAUCET ACCESSIBLE TO CHILDREN.

MATERIAL SCHEDULE																													
SYSTEMS		PIPE								FITTINGS				JOINTS															
		REQUIRED	SERVICE C.I. PIPE (HUB & SPIGOT)	NO-HUB C.I. PIPE	P.V.C. SCH. 40 DRAINAGE PIPE	C.P.V.C. SCH. 40	BLACK IRON	GALVANIZED STEEL	COPPER TUBING TYPE "L"	COPPER TUBING TYPE DWV	DUCTILE IRON PIPE	X-LINKED POLYETHYLENE	SERVICE C.I. FITTINGS (HUB & SPIGOT)	NO-HUB C.I. FITTINGS	P.V.C. D.W.V. FABRICATED	C.P.V.C. SCH. 40	BLACK IRON	GALVANIZED STEEL	COPPER SOLDER FITTINGS	FLANGED DUCTILE IRON PIPE	BRASS ASTM F1960 LISTED	ELASTOMERIC GASKET	PVC SOLVENT CEMENT	CPVC SOLVENT CEMENT	THREADED	SOLDERED 95-5	FLANGED DUCTILE IRON PIPE	COLD EXPANSION RING	
SANITARY BUILDING DRAIN (UNDER GROUND)		●	●		A								●		A							●	A						
SANITARY BUILDING DRAIN		●	●		A										A							●	A						
SANITARY STACKS		●	●		A										●							●	A						
SANITARY BRANCHES		●	●		A										●							●	A						
VENT STACKS		●	●		A										●							●	A						
VENT BRANCHES		●	●		A										●							●	A						
STORM BUILDING DRAIN (UNDER GROUND)		●	●		A								●		A							●	A						
STORM BUILDING DRAIN		●	●		A										●							●	A						
STORM STACKS		●	●		A										●							●	A						
STORM BRANCHES		●	●		A										●							●	A						
C.W. (SERVICE)		●	●									●			A							●	A						
C.W. (DISTRIBUTION)		●	●																										
H.W. (DISTRIBUTION)		●	●																										
GAS (DISTRIBUTION)		●	●																										
FLUE POWER VENTING		●	●		A		●								A		●						A		●				
INDIRECT WASTE		●	●		A										A								A						
SUMP DISCHARGE		●	●		●										A								●						
ELEVATOR SHAFT SUMP PUMP DISCHARGE		●	●		A										●								A		●				

PLUMBING DESIGN KEY NOTES:

1. CONTRACTOR TO PROVIDE NEW 3" VENT THROUGH ROOF AS SHOWN ON PLAN.

2. CONTRACTOR TO PROVIDE NEW 4" VENT THROUGH ROOF AS SHOWN ON PLAN.

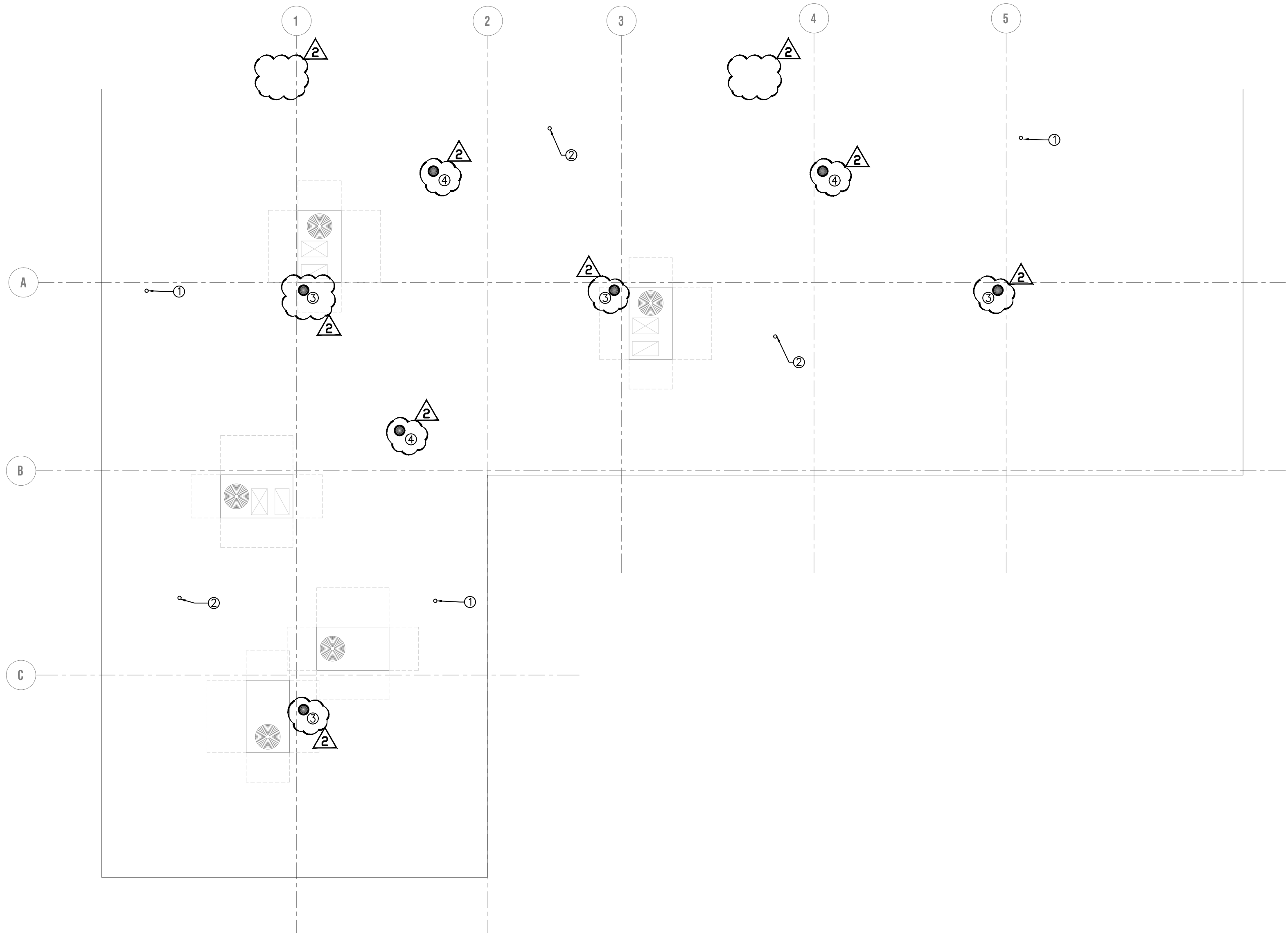
3. EXISTING PRIMARY ROOF DRAIN IS TO BE REPLACED WITH NEW ZURN Z121 OR EQUAL. TIE INTO EXISTING INTERIOR STORM PIPING SERVING EXISTING ROOF DRAIN. VERIFY EXACT LOCATION OF ROOF DRAIN IN FIELD.

4. EXISTING SECONDARY ROOF DRAIN IS TO BE REPLACED WITH NEW ZURN Z121 OR EQUAL. TIE INTO EXISTING OVERFLOW STORM PIPING SERVING EXISTING SECONDARY ROOF DRAIN. VERIFY EXACT LOCATION OF ROOF DRAIN IN FIELD.

PLUMBING GENERAL NOTES:

• PROVIDE ALL SANITARY, WASTE AND STORM PIPING WITH A MINIMUM PITCH OF 1/4" PER FOOT FOR ALL PIPE SIZES 2 1/2" OR SMALLER AND 1/8" PER FOOT FOR ALL PIPE SIZES 3" AND LARGER.

• ALL EXISTING EXTERIOR STORM LEADERS, GUTTERS, CONDUCTORS AND RELATED DRAINAGE PIPING TO BE REMOVED AND REPLACED IN KIND.



PLUMBING ROOF DRAINAGE PLAN
SCALE: 1/8" = 1'-0"

JAM ARCH

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ARMEN KHACHATURIAN, P.E. – NY LICENSE #062261-1
NY CERTIFICATE OF AUTHORIZATION #0019115

PROJECT:
LIGHTBRIDGE ACADEMY
26 & 36 Legion Drive
Valhalla, NY 10595

LEGAL DESCRIPTION:
BLOCK: 1, LOT: 91

OWNER
LBA OF WESCHESTER, LLC.
179 Nelson Road
Scarsdale, NY 10583

SHEET TITLE:

PLUMBING ROOF DRAINAGE
PLAN

2	09/28/2023	ROOF DRAIN REVISION
1	01/19/2023	BLDG. DEPT. COMMENTS
	08/08/2022	ISSUED FOR PERMIT
Rev. #	Revision Date	Revision Description

JOB NUMBER: 2019-01.15

DATE: 08/08/2022

DRAWN BY: ML/WC/MB

CHECKED BY: AK

SHEET NO.

P-103

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ARMEN KHACHATURIAN, P.E. - NY LICENSE #062261-1
NY CERTIFICATE OF AUTHORIZATION #0019115

LEGAL DESCRIPTION:
BLOCK: 1, LOT: 91

OWNER
LBA OF WESCHESTER, LLC.
179 Nelson Road
Scarsdale, NY 10583

SHEET TITLE:

PLUMBING
RISER DIAGRAMS

2	09/28/2023	ROOF DRAIN REVISION
1	01/19/2023	BLDG. DEPT. COMMENTS
	08/06/2022	ISSUED FOR PERMIT
Rev. #	Revision Date	Revision Description

SHEET NO.

P-201



MAXIMUM PIPE LENGTH 230 FEET
TOTAL LOAD : 380 MBH

- ALTERATIONS TO THE BUILDING GAS EQUIPMENT IS PENDING CON-EDISON APPROVAL AS PER THE WESTCHESTER COUNTY GAS SUPPLY MORATORIUM. GAS SCOPE OF WORK WILL BE APPROVED BY CON-EDISON UPON CONFIRMATION THAT THE NEW TOTAL BUILDING GAS DEMAND OF 380 MBH IS LESS THAN THE EXISTING GAS DEMAND OF THE EXISTING BUILDING. GENERAL CONTRACTOR TO VERIFY IN FIELD AND WITH THE UTILITY COMPANY THAT THE NEW TOTAL OF 380 MBH IS LESS THAN THE EXISTING GAS DEMAND PRIOR TO THE COMMENCEMENT OF WORK.



- PROVIDE THERMOSTATIC MIXING VALVE AT ALL LAVATORIES AND HAND WASHING SINKS AT TEMP 110°F.
- PROVIDE WATER HAMMER ARRESTOR AT EVERY QUICK CLOSING VALVE OF PLUMBING FIXTURES. WATER HAMMER ARRESTORS SHALL CONFORM WITH ASSE 1010.
- PROVIDE ALL SANITARY, WASTE AND STORM PIPING WITH A MINIMUM PITCH OF 1/4" PER FOOT FOR ALL PIPE SIZES 2½" OR SMALLER AND 1/8" PER FOOT FOR ALL PIPE SIZES 3" AND LARGER.
- THE BUILDING SERVICE WATER HEATING IS PROVIDED WITH A CIRCULATED SYSTEM AS PER 2020 ECCCNY'S C404.6.1. AND THE PIPING SYSTEM HAS BEEN DESIGNED AS PER C404.5.1 MAXIMUM ALLOWABLE PIPE LENGTH METHOD.
- THE FROST DEPTH FOR THIS REGION IS APPROXIMATELY 42" BELOW GRADE. ALL NEW DOMESTIC WATER SUPPLY PIPING TO BE INSTALLED UNDERGROUND AT THE BUILDING EXTERIOR SHALL BE PROVIDED WITH A MINIMUM OVERT OF 48" BELOW GRADE.

1. CONNECT 4" SANITARY WASTE TO 4" SANITARY CONNECTION AS SHOWN ON CIVIL ENGINEER'S PLAN, COORDINATE IN FIELD EXACT LOCATION.
2. WATER SPRINKLER MANIFOLD TO BE LOCATED 17" AFF INSIDE 50 GAL. RESIN DECK BOX. CONTRACTOR TO COORDINATE EXACT DIMENSION OF DECK BOX AND INSTALLATION HEIGHT AND INFORM ARCH/OWNER OF ANY ISSUES PRIOR TO INSTALLATION IN FIELD. LOCATE RPZ ASSEMBLY IN SPRINKLER SERVICE ROOM.
3. PROVIDE EACH SPRINKLER CONNECTION WITH ISOLATION CONTROL VALVE AND FLOW CONTROL VALVE. FLOW CONTROL VALVE TO BE 1" WATTS IDROSET SERIES CSD OR EQUAL. ADJUST IN FIELD THE MAXIMUM FLOW FOR EACH SPRINKLER TO BE 1.4 GPM AS RECOMMENDED BY PS-1 SPRINKLER MANUFACTURER.
4. 3/8" DOMESTIC COLD WATER CONNECTION FOR COUNTERTOP APPLIANCE. PROVIDE WITH ISOLATION SHUTOFF VALVE, VACUUM BREAKER, AND UNION FITTING.
5. 3/8" DOMESTIC COLD WATER CONNECTION FOR INTEGRAL REFRIGERATOR ICE MAKER. PROVIDE WITH ISOLATION SHUTOFF VALVE, DUAL CHECK VALVE WITH ATMOSPHERIC VENT, AND UNION FITTING.
6. PROVIDE CARTRIDGE WATER FILTER FOR PANTRY APPLIANCES. PROVIDE WITH (2) SPARE CARTRIDGES FOR TENANT USE.
7. EXISTING GAS SERVICE METER. 380 CFH NEW CONNECTED LOAD. REGULATE GAS SERVICE PRESSURE TO 7" W.C..