Deneuve Construction Services, Inc.
2344 Spruce St Ste B
Boulder, Colorado 80302
P: (303) 444-6633
F: (303) 444-6636

Project: 3206 BASECAMP
1901 Curve Plaza
Steamboat Springs , Colorado 80487

RFI #42: Gas Main Location

Status	Closed on 09/30/22		
To	Michael Vair (Boulder Engineering) Frank Gualchi (Boulder Engineering) Asako Sperry (KASA) Taylor Burchard (Boulder Engineering) Kevin Sperry (KASA) *(Response Required)*	**From**	Jason Bizzigotti (DENEUVE CONSTRUCTION SERVICES)
Date Initiated	Sep 14, 2022	**Due Date**	Sep 21, 2022
Location		**Project Stage**	Course of Construction
Cost Impact	TBD	**Schedule Impact**	TBD
Spec Section		**Cost Code**	
Drawing Number	P4.11	**Reference**	P4.11/5
Linked Drawings	A1009, C.100		
Received From			
Copies To	Taylor Burchard (Boulder Engineering), Emmett LaCombe (FV Basecamp, LLC), Vaclav Malek (KASA), Eric Rehnberg (DENEUVE CONSTRUCTION SERVICES), Asako Sperry (KASA), Tate Tellier (DENEUVE CONSTRUCTION SERVICES), Michael Vair (Boulder Engineering)		

Activity

Question

Question from Jason Bizzigotti DENEUVE CONSTRUCTION SERVICES *on Tuesday, Sep 13, 2022 at 07:03 AM MDT*

Please indicate gas main, size and how equipment will be regulated. Please make sure to note how fire-resistive structures are protected (if applicable) ex. Penetrating a 3 hour wall.

Attachments
Gas Main detail P4.11.pdf, Gas Main RFI.pdf

Official Response

Response from Kevin Sperry KASA *on Thursday, Sep 29, 2022 at 08:55 PM MDT*

Please see gas meter location diagram with dimension to regulator, as well as (3) Hilti details which illustrate penetrations of metal conduits through 3-hour CMU walls.

Attachments
Approval-document-ASSET-DOC-LOC-77 (1).pdf, Approval-document-ASSET-DOC-LOC-75.pdf, 22-0929 - RFI42 - Gas Main Location.pdf, Approval-document-ASSET-DOC-LOC-85.pdf

Official Response

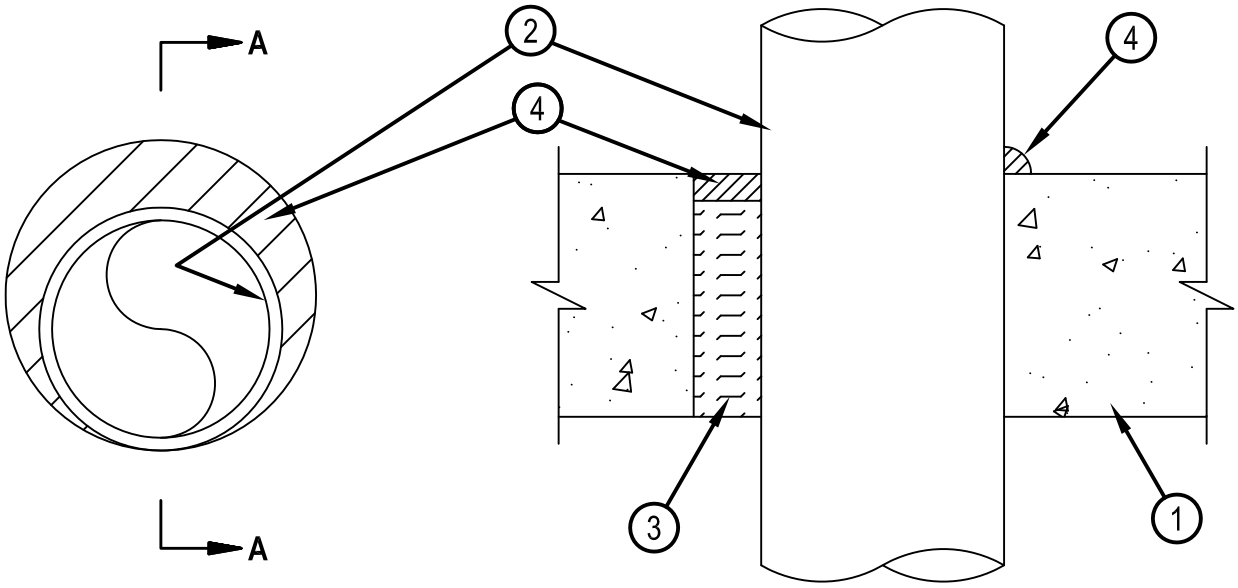
Response from Taylor Burchard Boulder Engineering *on Wednesday, Sep 21, 2022 at 02:35 PM MDT*

Utility Company is providing 7"w.c. delivery pressure. Gas piping is shown from meters on sheet P2.12 and routes up exterior wall and then routes through ceiling cavity of the water room.
House meter has a 4"manifold that has (2) 2" pipes to feed the boilers and (1) 2" pipe to feed the residential lobby rooftop unit, residential corridor makeup air units and the clubroom fire pit.
Gas piping from gym meter and restaurant meter are being redesigned and are not known at this time.

System No. C-AJ-1150

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Rating —0 Hr	FT Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft	FH Rating — 3 Hr
L Rating At 400 F — 4 CFM/sq ft	FTH Rating — 0 Hr
W Rating — Class 1 (See Item 4)	L Rating At Ambient — Less Than 1 CFM/sq ft
	L Rating At 400 F — 4 CFM/sq ft



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks *. Max diam of opening is 8 in. (203 mm).

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Through Penetrants — One metallic pipe or conduit to be installed within the firestop system. Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The annular space shall be min 0 in. (point contact) to max 1-3/8 in. (35 mm). The following types and sizes of metallic pipes or conduits may be used:
   A. Steel Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
   B. Iron Pipe — Nom 6 in. (152 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or nom 6 in. diam (or smaller) steel conduit.
3. Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall to accommodate the required thickness of fill material.
4. Fill, Void or Cavity Material* — Sealant — Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with top surface of floor and with both surfaces of wall. At the point contact location between pipe and concrete, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the concrete/pipe interface on the top surface of floor and on both surfaces of wall. W Rating applies only when CFS-S SIL GG, CFS-S SIL SL (floors only), CP601S or CP604 sealant is used.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP601S, CP604, CFS-S SIL GG, CFS-S SIL SL (floors only), CP606 or FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

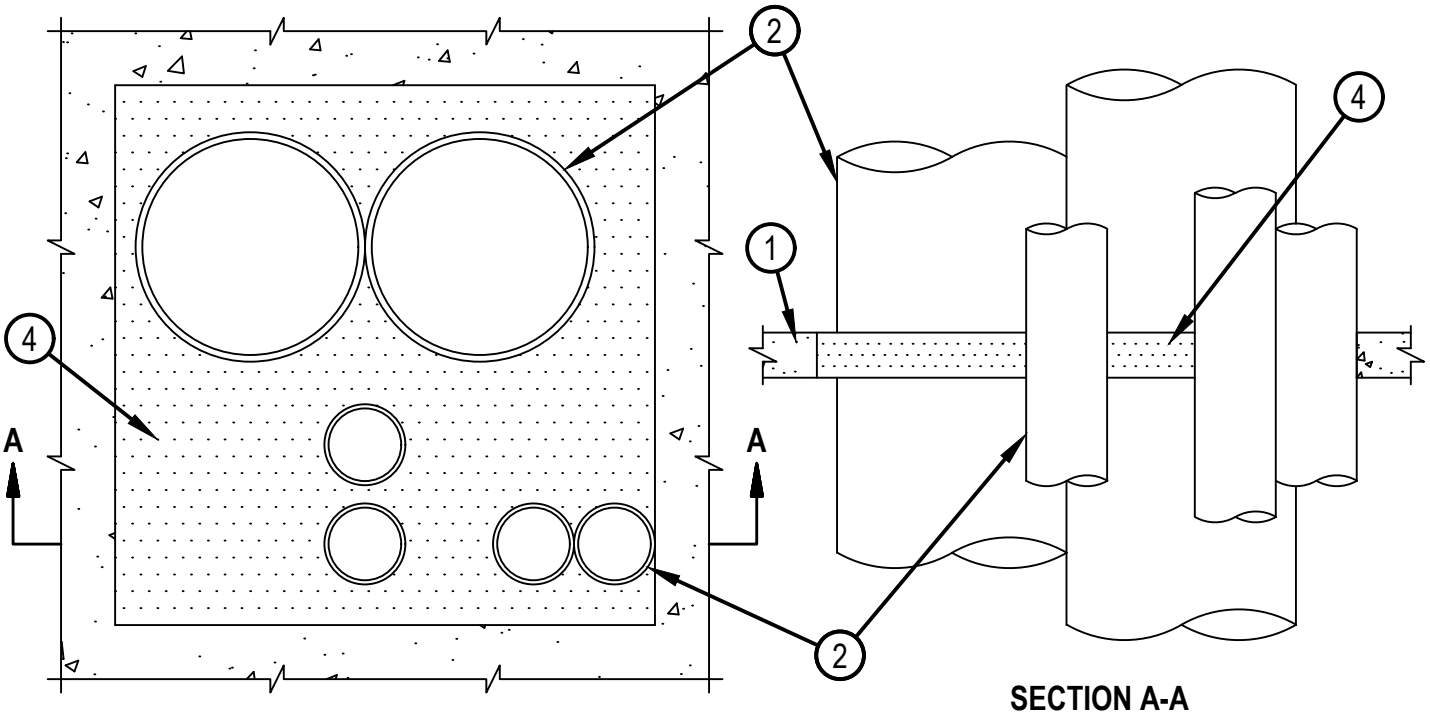
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

CAJ 1140

Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

System No. C-AJ-1140

F Rating -- 3 Hr
T Rating -- 0 Hr

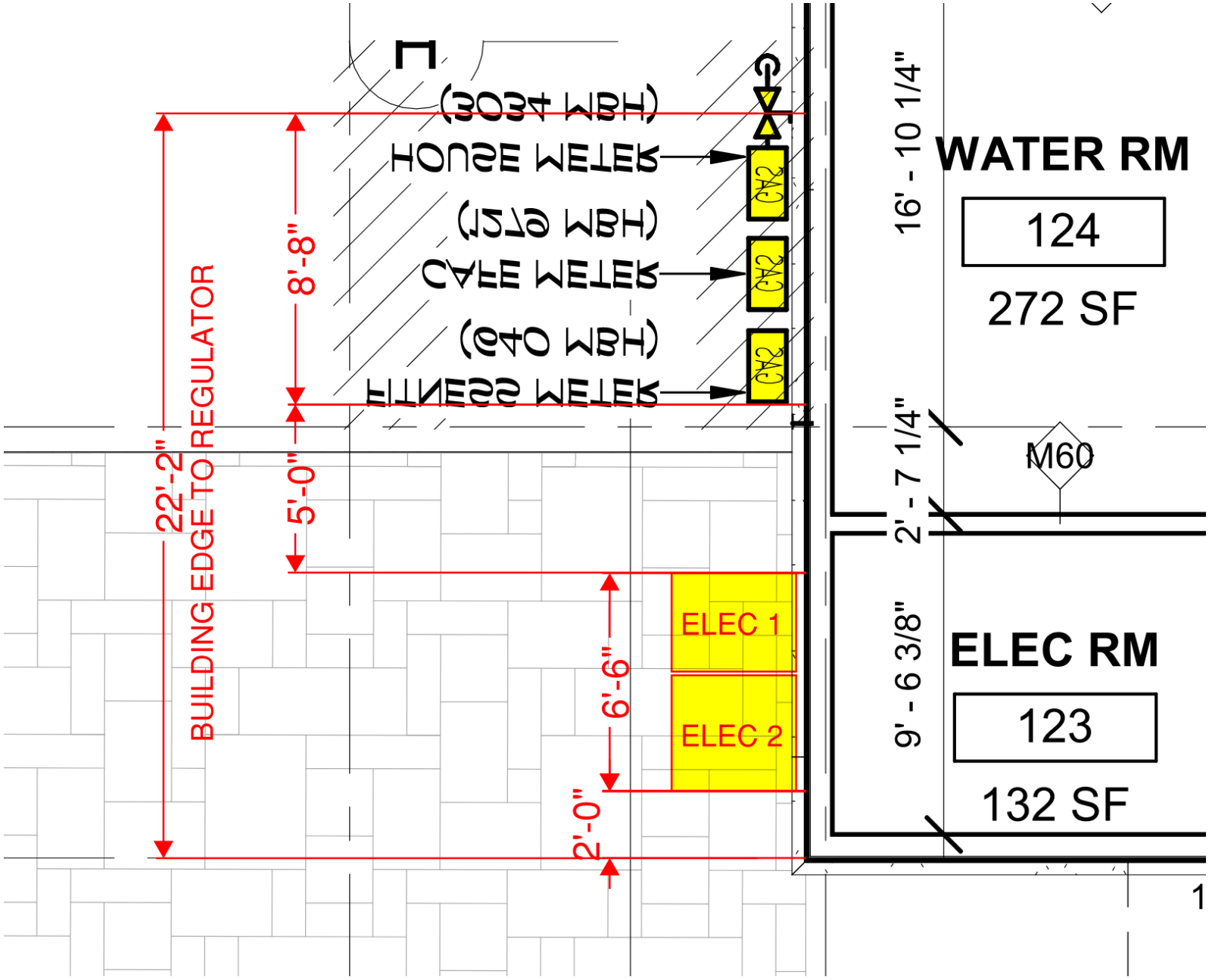


SECTION A-A

1. Floor or Wall Assembly — Min 2-1/2 in. (63 mm) thick reinforced lightweight or normal weight (100-150 pcf or1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks *. Max area of opening is 1024 sq in. (.66 sq m) with max dimension of 32 in. (81.3 cm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrants — One or more penetrants to be installed in opening. Min clearance between pipes, conduits or tubing is 0 in. (0 mm). (point contact). Min clearance between pipes, conduit or tubing and periphery of through opening is 1 in. (25 mm). Min clearance between pipes, conduit or tubing and periphery of any single surface of through opening is 0 in. (point contact). Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or steel conduit.
   C. Copper Tubing — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
   D. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. Forms — (Not Shown) — Used as a form to prevent leakage of fill material during installation. Forms to be a rigid sheet material, cut to fit the contour of the penetrating item and positioned as required to accommodate the required thickness of fill material. Forms may be removed after fill material has cured.
4. Firestop System — The details of the firestop system shall be as follows:
   A. Packing Material — (Optional, Not Shown) - For floors greater than 2-1/2 in. (63 mm) thick, mineral wool batt insulation firmly packed into opening as a permanent or temporary form and recessed from the top surface of floor to accommodate the required thickness of the fill material.
   B. Fill, Void or Cavity Material* — Mortar — Min 2-1/2 in. (63 mm) thickness of fill material applied within the annulus. Fill material is mixed at a rate of 2.5 parts dry mix to one part water by weight in accordance with the installation instructions supplied with fill material.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC — Type CP636 or CP637

*Bearing the UL Classification Mark

Hilti Firestop Systems

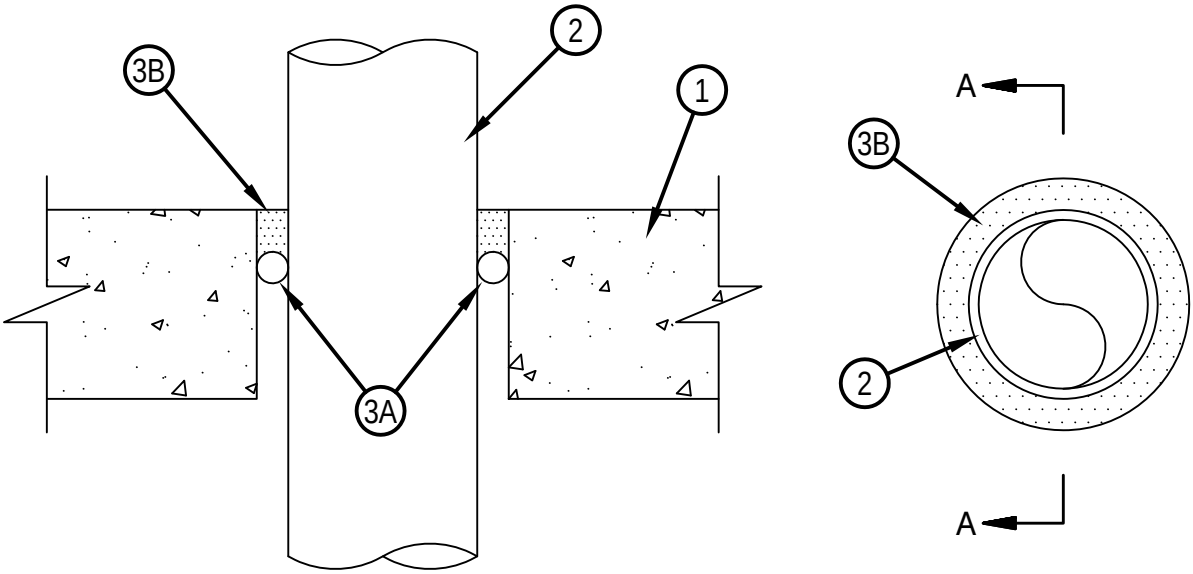


RFI 42
GAS MAIN LOCATION
KASA
9/29/2022

System No. C-AJ-1276

Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 3 Hr
	FTH Rating — 0 Hr



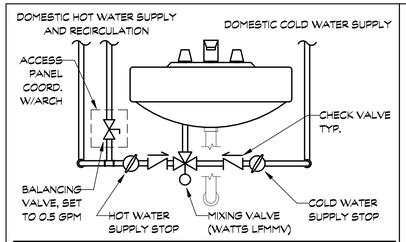
SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 6 in. (152 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrants — One metallic pipe, conduit or tubing to be centered within the firestop system. A nom annular space of 3/4 in. (19 mm) is required within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or steel conduit.
3. Firestop System — The firestop system shall consist of the following:
   A. Packing or Forming Materials — Optional — One of the following packing or forming materials may be used:
   A1. Foam Backer Rod — Foam backer rod tightly packed into the opening as a permanent form. Packing material to be recessed from the top surface of floor or both surfaces of wall as required to accommodate the required thickness of putty.
   A2. Mineral Wool Batt Insulation — Min 4 pcf (64 kg/m3), tightly packed into the opening as a permanent form. Packing material to be recessed from the top surface of floor or both surfaces of wall as required to accommodate the required thickness of putty.
   A3. Forming Material* — Forming material to be foamed into the opening as a permanent form. Forming material to be recessed from the top surface of floor or both surfaces of wall as required to accommodate the required thickness of putty.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CF812 or CF-AS CJP Foam Sealant
   B. Fill, Void or Cavity Material* — Putty — Min 1 in. (25 mm) thickness of putty applied within the annulus, flush with top surface of floor or with both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 618 Firestop Putty Stick

*Bearing the UL Classification Mark

PLUMBING FIXTURE SCHEDULE

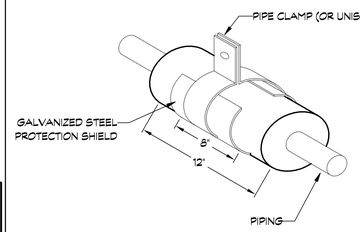
KEY	DESCRIPTION	FITTINGS/ACCESSORIES	MANUFACTURER/CATALOG #
WC	WATER CLOSET, TANK TYPE, FLOOR MOUNTED, SIPHON JET, ELONGATED BOWL, 1.28 GPF, 14-5/8" RIM HEIGHT	HEAVY DUTY TOILET SEAT W/LID, STAINLESS STEEL HINGES	RE: ARCH PLANS - SHEET A1.00B
L-1	COUNTERTOP LAVATORY, OVAL, VITREOUS CHINA, 4" O.C. WHITE, SELF RIMMING	PERFORATED DRAIN, LEVER HANDLES, OFFSET TAILPIECE, INSULATED DRAIN PIPING	RE: ARCH PLANS - SHEET A1.00B
L-2	WALL HUNG LAVATORY, ADA, VITREOUS CHINA, 4" O.C. WHITE	PERFORATED DRAIN, LEVER HANDLES, OFFSET TAILPIECE, INSULATED DRAIN PIPING	RE: ARCH PLANS - SHEET A1.00B
KS	SINGLE COMPARTMENT KITCHEN SINK, UNDERMOUNT, 18 GA SST, 23-1/2" X 18-1/4" X 4-3/8"D, 3-1/2" DRAIN, 1/2 HP DISPOSAL, DISH MACH, AIR GAP ADA	8" SWIVEL GOOSENECK W/ WRIST BLADE LEVERS, SINGLE DECK FAUCET, 1.5 GPM AERATOR, INSULATED DRAIN PIPING	RE: ARCH PLANS - SHEET A1.00B
S-1	CLUBROOM BAR SINK		RE: INTERIOR PLANS
BT-1	BATHTUB FOR RESIDENTIAL UNITS		RE: ARCH PLANS - SHEET A1.00B
SH-1	SHOWER FOR RESIDENTIAL UNITS		RE: ARCH PLANS - SHEET A1.00B
FD	FLOOR DRAIN, ADJUSTABLE CAST IRON SUMP	ROUND NIKALOY STRAINER, INLINE TRAP SEAL	JOSAM 30000A SURE SEAL
HD	HUB DRAIN, FUNNEL INLET, CAST IRON	CAST IRON P TRAP	
AD	AREA DRAIN, CAST IRON HINGED GRATE, ADJUSTABLE TOP		JOSAM 23500-AE-4
OD	AREA OVERFLOW DRAIN, CAST IRON HINGED GRATE, ADJUSTABLE TOP		JOSAM 23500-AE-4
RD	COMBINATION ROOF DRAIN & OVERFLOW DRAIN, CAST IRON SUMP, DECK CLAMP/RECEIVER	POLYPROPYLENE DOME STRAINER	JOSAM 22100
DS	DOWNSPOUT, NIKALOY FINISH		JOSAM 25010-24
CO	FLOOR CLEANOUT, CAST IRON HOUSING	ROUND NIKALOY TOP (SUBSTITUTE SQUARE TOP (1-SQ) IN TILED AREAS, CARPET MARKER (-14) IN CARPETED AREAS)	JOSAM 55000-1
WCO	WALL CLEANOUT	STAINLESS STEEL ACCESS COVER (JOSAM 58600)	JOSAM 58910-19
FHB	FREEZE PROOF WALL HYDRANT , TEE KEY HANDLE W/ HINGED DOOR	VACUUM BREAKER	WOODFORD MODEL B65
RB	REFRIGERATOR ICE MAKER WALL BOX	SHOCK ARRESTOR, QUARTER TURN VALVE	SIOUX CHIEF 696-G1010WF
WU	SUPPLY & DRAIN UNIT FOR AUTOMATIC WASHER TOP OR BOTTOM SUPPLY AS REQUIRED	INLINE HOSE WATER HAMMER ARRESTOR	SIOUX CHIEF 696-2313WF
AA	AIR ADMITANCE VALVE	LOCATE UNDER SINK	STUDOR VENT MINI-VENT
SP-1	SUBMERSIBLE SUMP PUMP, DIAPHRAGM SWITCH, 100GPM @ 20'H, SIMPLEX 1/2 HP, 120V, 18"DIA x 36"H FIGERGLASS BASIN	PANEL & HIGH LEVEL ALARM, GATE & CHECK VALVES	WEIL 1413-08 (ELEVATOR)
NOTES:	PC IS RESPONSIBLE FOR ALL ANCILLARY EQUIPMENT AND FITTINGS (STOPS, FLEXIBLE TUBING, ESCUCHEONS, ETC.) NEEDED TO CONNECT FIXTURES		



- FIELD COORDINATE BALANCING VALVE LOCATION AND ACCESS PANEL WITH GENERAL CONTRACTOR AND CASEWORK
- MAKE CONNECTION WITHIN 20" OF FIXTURE FOR COMPLIANCE OF 2015 IECC SECTION C404.5 FOR PUBLIC LAVATORY FAUCETS
- SHOWN AS SINGLE FIXTURE INSTALLATION, CONFIRM IN FIELD
- SHOWN AS SINGLE FAUCET SUPPLY, PROVIDE ADDITIONAL CW SUPPLY WHEN FAUCET REQUIRES

NTS

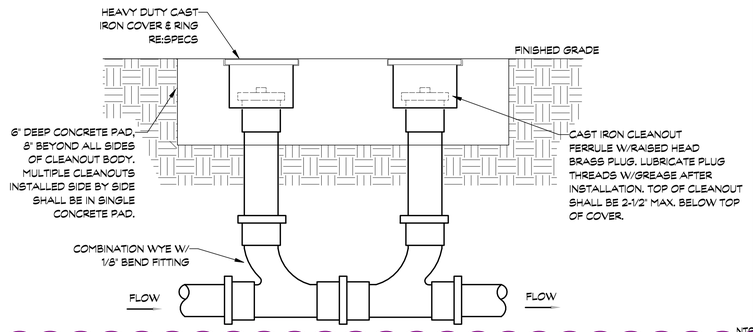
MIXING VALVE DIAGRAM (IECC 2018) 8



ALL PIPING TO BE INSULATED AND MARKED WITH FLOW DIRECTION INDICATORS, RE: SPECS

NTS

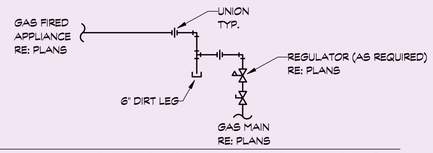
PIPE SUPPORT INSULATION DIAGRAM 7



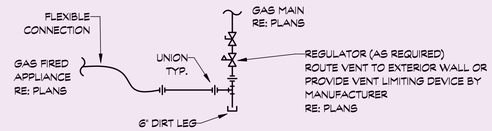
NTS

TWO-WAY CLEANOUT DIAGRAM 6

- REFER TO PLANS FOR PIPE SIZES NOT SHOWN
- REDUCE AT APPLIANCE CONNECTION AS REQUIRED



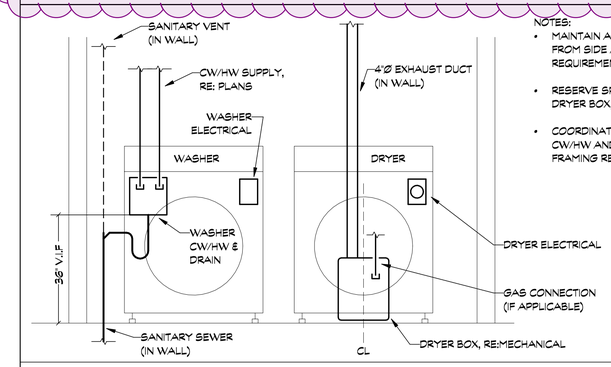
TYPICAL EXTERIOR EQUIPMENT CONNECTION



TYPICAL INTERIOR EQUIPMENT CONNECTION

NTS

GAS EQUIPMENT CONNECTION DIAGRAM 5

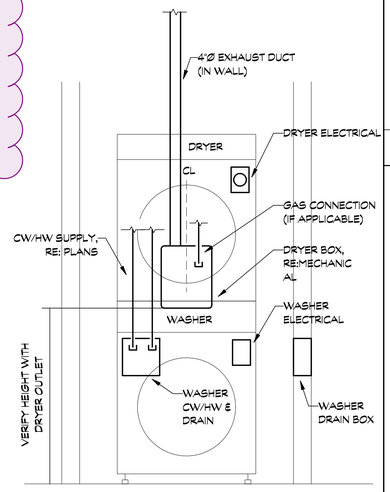


NOTES:
- MAINTAIN ALL MANUFACTURER CLEARANCES FROM SIDE AND BACK, COORDINATE FRAMING REQUIREMENTS WITH ARCH.
- RESERVE SPACE BEHIND CENTER OF DRYER FOR DRYER BOX, RE: MECHANICAL.
- COORDINATE EXACT LOCATION OF WASHER BOX, CW/HW AND WASTE PIPING. COORDINATE FRAMING REQUIREMENTS WITH G.C.

NTS

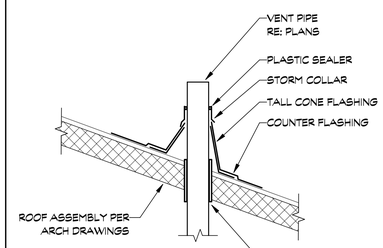
WASHER/DRYER DIAGRAM (SIDE BY SIDE) 4

NOTES:
- MAINTAIN ALL MANUFACTURER CLEARANCES FROM SIDE AND BACK, COORDINATE FRAMING REQUIREMENTS WITH ARCH.
- RESERVE SPACE BEHIND CENTER OF DRYER FOR DRYER BOX, RE: MECHANICAL.
- COORDINATE EXACT LOCATION OF WASHER BOX, CW/HW AND WASTE PIPING. COORDINATE FRAMING REQUIREMENTS WITH G.C.
- WASHER DRAIN BOX LOCATED IN ADJACENT WALL SEPERATE FROM CW/HW SUPPLY BOX, RE: PLANS



NTS

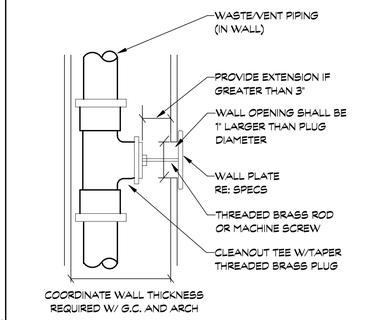
WASHER/DRYER DIAGRAM (STACKED) 3



- COORDINATE ROOF PENETRATION AND WEATHERPROOFING WITH G.C.
- VTR TO BE LOCATED A MINIMUM OF 10'0" FROM ANY BUILDING OPENING OR MECHANICAL EQUIPMENT AIR INTAKE

NTS

VENT THRU ROOF (VTR) DIAGRAM 2



NTS

WALL CLEANOUT DIAGRAM 1

APPROVAL STAMPS:

No.	Date	Description
2	3/21/22	ISSUED FOR PERMIT & PRICING
1	02.14.22	ISSUED FOR PERMIT

SUBMISSIONS & REVISIONS

OWNER

MAY REIGLER PROPERTIES
2201 WISCONSIN AVE NW
SUITE 200
WASHINGTON DC 20007

ARCHITECT

KEVIN & ASAKO SPERRY ARCHITECTURE
3318 N. Columbus Street
Arlington, VA 22207
T.312.636.3248 / 312.636.4252
www.kasa-arch.com

GENERAL CONTRACTOR

CIVIL ENGINEER

LANDMARK ENGINEERING
141 9TH STREET, PO BOX 774943
STEAMBOAT SPRINGS, CO 80477
T: 970.879.1976

STRUCTURAL FRAMING ENGINEER

KL&A ENGINEERS & BUILDERS
1717 WASHINGTON AVE.
GgolDEN, CO 80401
T: 303.384.9910

M.E.P. ENGINEERS

BOULDER ENGINEERING
1717 15TH STREET
BOULDER, CO 80302
T: 303.444.6038

INTERIOR DESIGNER

JOHNSON NATHAN STROHE
1600 WYNKOOP ST., SUITE 100
DENVER, CO 80202
T: 303.892.7062

PROJECT LOCATION

STEAMBOAT BASECAMP PARTIAL RENOVATION & TENANT FIT-OUT
1901 CURVE PLAZA
STEAMBOAT SPRINGS, CO 80487

DRAWING TITLE

PLUMBING DETAILS & SCHEDULES

SEAL

COLORADO LICENSED PROFESSIONAL ENGINEER 38983 03/21/2022

DATE: 02/14/22
DRAWN BY:
CHECKED BY:
PROJECT NO: 20129

DRAWING NO: **P4.11**

3/23/2022 10:50:54 AM

From: Gaby Riegler <gaby@mayriegler.com>
Sent: Wednesday, September 7, 2022 2:08 PM
To: Matt Disney; Jason Bizzigotti
Cc: Emmett LaCombe
Subject: Gas Main RFI

Follow Up Flag: Follow up
Flag Status: Completed

6. A question came up in the field regarding the gas main location and RCRBD was only able to find typical details on Sheet P4.11 experiencing difficulty finding location on plans. Please help by way of sheet numbers and details of how to find the gas main location and how the main is regulated, enters the building and certain fire-resistive structures are protected as we don't find any penetration details through the masonry or isolation joint between buildings and wonder how this flexibility is maintained

Gaby Riegler
(C) 202-373-8309
gaby@mayriegler.com

MAY | RIEGLER
PROPERTIES