

NOTES:

GENERAL

A. SEE MECHANICAL COVER SHEET – GENERAL PROJECT NOTES FOR ADDITIONAL REQUIREMENTS.

- BEFORE COMMENCING ANY WORK, THE CONTRACTOR SHALL VERIFY ALL GOVERNING DIMENSIONS AT THE SITE AND EXAMINE ADJOINING WORK ON WHICH ITS WORK WILL BE DEPENDENT AND REPORT ANY CONFLICTS OR DISCREPANCIES TO THE ARCHITECT /ENGINEER.
- C. PROVIDE ALL WORK INDICATED ON THE CONTRACT DOCUMENTS.
- D. THE DRAWINGS SHALL BE CONSIDERED AS DIAGRAMMATIC. ATTENTION IS CALLED TO THE FACT THAT WHILE THE DRAWINGS ARE GENERALLY TO SCALE AND ARE AS ACCURATE AS THE SCALE WILL PERMIT, ALL IMPORTANT DIMENSIONS SHALL BE DETERMINED IN THE FIELD. THE DRAWINGS ARE NOT TO BE CONSIDERED AS CONSTRUCTION DRAWINGS. THE DRAWINGS DO NOT INDICATE EVERY FITTING, ELBOW, OFFSET, VALVE OR SIMILAR COMPONENTS WHICH ARE REQUIRED TO COMPLETE THE WORK.
- E. THE CONTRACTOR SHALL INSTALL AND CONNECT ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE BEST ENGINEERING PRACTICE AND UNLESS OTHERWISE INDICATED SHALL FOLLOW THE MANUFACTURER'S PUBLISHED INSTRUCTIONS AND RECOMMENDATIONS. FURNISH AND INSTALL ALL REQUIRED AUXILIARY ITEMS TO PROVIDE A COMPLETE & OPERABLE SYSTEM.
- F. WITHIN THIRTY (30) DAYS OF CONTRACT AWARD, THE CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE ARCHITECT ALL DEVICES TO BE USED IN THE WORK. SUBMITTALS SHALL INCLUDE PIPE, FITTINGS, HANGERS AND SUPPORTS, INSULATION, FIXTURES AND RELATED EQUIPMENT.
- G. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS -- USE DIMENSIONED ARCHITECTURAL DRAWINGS. REFER TO MANUFACTURER'S STANDARD ROUGH-IN DRAWINGS FOR PLUMBING FIXTURES AND TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
- H. COORDINATE WITH THE WORK OF OTHER SECTIONS AND TRADES, WITH EQUIPMENT FURNISHED BY OTHERS, AND WITHIN THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.
- I. MISCELLANEOUS EXPENSES SUCH AS HOOK -UP CHARGES, PERMITS, INSPECTIONS, AND OTHER EXPENSES RELATED TO A COMPLETE AND FUNCTIONING SYSTEM ARE INCLUDED AS PART OF THIS SECTION.
- J. ACCESS PANELS SHALL BE PROVIDED IN CEILINGS OR WALLS WHERE CONCEALED DEVICES ARE LOCATED, EXCEPT WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH OTHER MEANS.
- K. PIPING SYSTEMS, GENERAL: ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK INCLUDING DUCTS AND ELECTRICAL CONDUIT. AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING, PROVIDE AN ISOLATING DIELECTRIC UNION. SEAL PIPE PENETRATIONS OF FIRE FLOORS AND FIREWALLS WITH FIREPROOF PUTTY OR GROUT. PROVIDE SUMNER OR EQUIVALENT PIPE HANGING SYSTEM IN CHASES. PROVIDE HANGERS AS RECOMMENDED BY HANGER MANUFACTURER.
- L. ALL SINK INSTALLATION WILL BE EQUIPPED WITH HOT AND COLD RUNNING WATER THROUGH A MIXING VALVE OR COMBINATION FAUCET. ALL HANDICAP (ADA) SINK INSTALLATION SHALL BE EQUIPPED WITH ASSE 1070 TEMPERING VALVE ON THE HOT WATER. SET LIMIT AT 109F.
- M. (IF APPLICABLE) ALL WASTEWATER FROM FOOD SERVICE EQUIPMENT WILL BE INDIVIDUALLY PLUMBED TO AN OPEN SITE DRAIN WITH A MIN. OF 1" AIR GAP.
- N. WHERE PIPING PENETRATES FIRE-RATED WALLS, PIPING SHALL BE INSTALLED AT 90 DEGREE ANGLE. PIPE SLEEVES SHALL NOT BE INSTALLED AT 45 DEGREE ANGLE.
- O. ALL FIXTURES SHALL BE PROPERLY VENTED TO THE ATMOSPHERE.
- P. WATER AND VENT PIPING SHALL BE RUN HIGH AS POSSIBLE UNLESS OTHERWISE NOTED.
- Q. THE WORK INCLUDES CONNECTION OF PLUMBING UTILITIES TO PUBLIC UTILITIES AND INSTALLATION OF A COMPLETE PLUMBING SYSTEM WITHIN THE BUILDING. PROVIDE NEW MATERIALS, FITTINGS, ACCESSORIES, FIXTURES AND EQUIPMENT NECESSARY FOR A COMPLETE AND PROPERLY FUNCTIONING SYSTEM AS SHOWN ON THE PLANS AND AS REQUIRED. THE WORK INCLUDES FINAL CONNECTIONS TO EQUIPMENT AND FIXTURES PROVIDED BY OTHERS. FURNISH ALL NEW MATERIALS. WORK SHALL BE PERFORMED BY EXPERIENCED TRADESMEN, AND THEIR WORKMANSHIP SHALL BE HIGH STANDARD & ACCEPTABLE TO THE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.
- R. ALL PLUMBING VENTS IN EXTERIOR WALLS SHALL BE OFFSET A MINIMUM OF 3' -0" IN CEILING AT ROOF BEFORE PENETRATION.
- S. ALL PLUMBING VENTS WITHIN A 10'-0" RADIUS OF EXHAUST VENTS SHALL BE EXTENDED TO A HEIGHT OF 3' -0" ABOVE EXHAUST VENT CROWN.
- T. ALL PLUMBING VENTS WITHIN A 10' -0" RADIUS OF ANY ROOFTOP UNIT OR INTAKE LOUVER SHALL BE EXTENDED TO A HEIGHT OF 3'-0" ABOVE FRESH AIR INTAKE.
- U. ALL HOSE BIBS SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR, UNLESS OTHERWISE SPECIFIED.
- V. ALL WALL HYDRANTS SHALL BE MOUNTED 24" ABOVE FINISHED GRADE UNLESS OTHERWISE SPECIFIED.
- W. SLOPES AND INVERT ELEVATIONS OF ALL INTERIOR PIPING SHALL BE ESTABLISHED BEFORE ANY PIPING IS INSTALLED IN ORDER THAT PIPE SHALL BE LOCATED AND DETERMINED WHERE TO BE RUN TO AVOID CONFLICT WITH OTHER TRADES.
- X. CLEANOUTS SHALL BE PROVIDED NEAR BASE OF EACH VERTICAL WASTE OR SOLID STACK. PROVIDE 18" MINIMUM CLEARANCE FOR ACCESS.
- Y. UNLESS OTHERWISE NOTED, HORIZONTAL SANITARY PIPING SHALL BE PITCHED PER A.1.g.
- Z. LABEL ALL NEW PIPING. LABEL TO DESCRIBE SERVICE AND DIRECTION OF FLOW.
- AA. FLOOR SLABS SHALL BE X-RAYED BEFORE ANY CORE DRILLING IS COMMENCED.
- AB. ALL BUILDING SYSTEMS SHALL REMAIN IN SERVICE UNLESS INDICATED OTHERWISE. ALL OUTAGES OR INTERRUPTIONS SHALL BE KEPT TO MINIMUM DURATION. NOTIFY THE OWNER 48 HOURS IN ADVANCE OF ANY OUTAGE OR INTERRUPTION.
- AC. THE CONTRACTOR SHALL REPAIR ALL WALL, CEILING, FLOOR, OR ROOF OPENINGS WHICH ARE CREATED BY DEMOLITION OR PENETRATION. THE REPAIRS SHALL BE WITH MATERIALS AND FINISHES TO MATCH EXISTING. ALL FIRE RATED PENETRATIONS SHALL BE SEALED WITH SUITABLE MATERIALS TO PRESERVE FIRE RATED INTEGRITY.
- AD. ALL EQUIPMENT INSTALLED SHALL BE NEW AND SHALL CONFORM IN ALL RESPECTS TO THE LATEST APPROVED STANDARDS OF IEEE, ANSI, NEMA AND UNDERWRITERS LABORATORIES, INC., UNLESS INDICATED OTHERWISE. SUBSTITUTIONS SHALL ONLY BE ACCOMPLISHED AT THE DISCRETION OF THE ENGINEER.
- AE. PROTECT ADJACENT MATERIALS INDICATED TO REMAIN. INSTALL AND MAINTAIN DUST AND NOISE BARRIERS TO KEEP DIRT, DUST, AND NOISE FROM BEING TRANSMITTED TO ADJACENT AREAS. REMOVE PROTECTION AND BARRIERS AFTER DEMOLITION OPERATIONS ARE COMPLETE.
- AF. THE WORK SHALL CONFORM TO THE LATEST STATE AND LOCAL PLUMBING CODES.

PRODUCTS:

A. PIPING AND FITTINGS:

1. WASTE PIPING:
- a. SHALL BE TYPE PVC OR CAST IRON. FITTINGS SHALL BE TYPE PVC OR CAST IRON. ABS CAN BE USED IF SHELL BUILDING SEWER & VENT PIPES ARE ABS. MUST BE APPROVED BY LOCAL CODES. PROVIDE ALL DRAIN, WASTE AND SEWER PIPING WITHIN THE PROJECT SPACE WITH CONNECTION TO THE PUBLIC SANITARY WASTE SYSTEM ON SITE. ALL PIPING BELOW FLOOR SLAB SHALL BE PVC OR SERVICE WEIGHT HUB AND SPIGOT PIPE AND FITTINGS WITH NEOPRENE GASKET JOINTS, OR HUBLESS PIPE WITH CAST IRON COUPLINGS AND STAINLESS STEEL BOLTS COATED WITH MASTIC. ALL WASTE PIPING ABOVE FLOOR SHALL BE PVC OR SERVICE WEIGHT COPPER HUBLESS PIPE, CONNECTORS AND FITTINGS. ALL PIPING SHALL BE SLOPED UNIFORMLY AT 1.04% (3" AND ABOVE) OR 2.08% (2" AND BELOW) UNLESS OTHERWISE REQUIRED BY EXISTING CONDITIONS. ALL INDOOR ABOVE GRADE SANITARY PIPING SHALL BE CAST IRON OR PVC INSULATED FOR SOUND.
- b. HUB-AND-SPIGOT, CAST -IRON SOIL PIPE AND FITTINGS
- b.a.a. Pipe and Fittings: ASTM A 74,[Service] class.
- b.a.b. Gaskets: ASTM C 564, rubber.
- b.a.c. Caulking Materials: ASTM B 29, pure lead and oakum or hemp fiber.
- c. HUBLESS, CAST -IRON SOIL PIPE AND FITTINGS
- c.a.a. Pipe and Fittings: ASTM A 888 or CISPI 301.
- c.a.a.1. Standards: ASTM C 1277 and CISPI 310.
- c.a.a.2. Description: Stainless-steel corrugated shield with stainless-steel bands and tightening devices; and ASTM C 564, rubber sleeve with integral, center pipe stop.
- c.a.a.3. Description: Stainless-steel shield with stainless-steel bands and tightening devices; and ASTM C564, rubber sleeve with integral, center pipe stop.
- d. COPPER TUBE AND FITTING
- d.a. Copper DWV Tube: ASTM B 306, drainage tube, drawn temper.
- d.b. Copper Drainage Fittings: ASME B16.23, cast copper or ASME B16.29, wrought copper, solder-joint fittings.
- d.c. Copper Ranges: ASME B16.24, Class 150, cast copper with solder-joint end.
- d.d. Solder. ASTM B 32, lead free with ASTM B 813, water-flushable flux.
2. INDIRECT WASTE PIPING (IF APPLICABLE):
- a. HARD DRAWN COPPER TUBE TYPE "M".
3. VENT PIPING:
- a. PROVIDE A COMPLETE SYSTEM OF VENT PIPING, CONSISTING OF SERVICE WEIGHT CAST IRON HUBLESS PIPE, CONNECTORS AND FITTINGS. COMBINE THE VENT RISERS IN THE CEILING SPACE AND CONNECT TO NEW VENT MAIN.
4. WATER PIPING:
- a. PROVIDE NEW DOMESTIC WATER PIPING SYSTEM INSIDE THE BUILDING AS SHOWN ON DRAWINGS. HOT AND COLD WATER PIPING SHALL BE COPPER TUBING & FITTINGS OR CCPVC PIPING & FITTINGS. PROVIDE WATER HAMMER ARRESTORS AS REQUIRED. LAY OUT WATER PIPING SO THAT ENTIRE SYSTEM CAN BE DRAINED. FLUSH THE WATER PIPING CLEAR OF DEBRIS AND CLEAN THE AERATORS AND STRAINERS AT THE TERMINATION OF THE INSTALLATION.
- b. COPPER TUBE AND FITTINGS
- b.a. Hard Copper Tube: ASTM B 88, Type L and ASTM B 88, Type M water tube, drawn temper.
- b.b. Soft Copper Tube: ASTM B 88, Type K and ASTM B 88, Type L water tube, annealed temper.
- b.c. Cast-Copper, Solder-Joint Fittings: ASME B16.18, pressure fittings.
- b.d. Wrought-Copper, Solder-Joint Fittings: ASME B16.22, wrought-copper pressure fittings.
- b.e. Bronze Flanges: ASME B16.24, Class 150, with solder-joint ends.
- b.f. Copper Unions:
- b.f.1. MSS SP-123.
- b.f.2. Cast-copper-alloy, hexagonal-stock body.
- b.f.3. Ball-and-socket, motel-to-motel seating surfaces.
- b.f.4. Solder-joint or threaded ends.
- b.f.5. Copper Pressure-Seal-Joint Fittings:
- b.f.6. Fittings for NPS 2 and Smaller. Wrought-copper fitting with EPDM-rubber, O-ring seal in each end.
- b.1. 7. Fittings for NPS 2-1/2 to NPS 4: Cast-bronze or wrought-copper fitting with EPDM-rubber, D-ring seal in each end.
5. PIPE INSULATION:

INSULATE ALL COLD WATER AND CONDENSATE PIPING WITH 1/2", AND HOT WATER PIPING WITH 1", PREFORMED FIBERGLASS PER ASTM C335 WITH ALL -SERVICE JACKET AND VAPOR BARRIER (BY CT, OC, JM, PPG, OR KNAUF). INSULATION SHALL COMPLY WITH NFPA 255 AND ASTM E84 WITH A MAXIMUM FLAME SPREAD OF 25 AND MAXIMUM SMOKE DEVELOPED OF 50. PROVIDE PRE- MOLDED FITTING COVERS EQUAL TO STARR DAVIS. AT CONTRACTOR'S OPTION, PLENUM-RATED ELASTOMERIC INSULATION (BY ARMSTRONG, RUBATEX OR EQUAL) MAY BE USED.

6. SHUT -OFF VALVES:

VALVES WITH UNIONS SHALL BE PROVIDED AT BRANCHES TO GROUPS OF MORE THAN TWO FIXTURES AND AT THE WATER HEATER TO FACILITATE ISOLATION FOR REPAIR OR REPLACEMENT. USE CHROME-FINISHED FORGED BRONZE BODY, FULL PORT BALL VALVES, LEAD FREE, PTFE SEALS AND PACKING, 400 LB. RATING WITH THREADED OR SOLDER ENDS, EQUAL TO NIBCO #FP600. VALVES SHALL BE ALL BRONZE FABRICATED VALVES FOR SCREWED PIPE. BY WALWORTH, ROCKWELL, NORDSTROM OR APPROVED EQUIVALENT.

7. AIR ADMITTANCE VALVE (A.A.V.) (IF REQUIRED):

STUDER MINIVENT, MAXIVENT, REDIVENT, TECVENT AND ULTRAVENT.

8. FLOOR DRAINS, CLEAN OUTS, TRAP SEALERS, HOSE BIBS AND BACKFLOW PREVENTERS:

SEE SCHEDULE ON PLUMBING DRAWINGS.

9. SUPPLIES AND TRAPS:

PROVIDE WATER SEALS, TRAPS AND SUPPLIES INSTALLED AS CLOSE AS POSSIBLE TO ALL PLUMBING FIXTURES, DRAINS, AND/OR EQUIPMENT ITEMS FURNISHED BY OTHERS, HAVING A WASTE CONNECTION, OR REQUIRING WATER SERVICE. EXPOSED TRAPS AND SUPPLIES IN EXPOSED AREAS INCLUDING CABINET INTERIORS) SHALL BE CHROME PLATED BRASS.

10. DIELECTRIC FITTINGS:

SHALL BE EQUAL TO EPCO SALES, INC.

EXECUTION

- PROVIDE ALL WORK, EQUIPMENT, AND MATERIALS INDICATED.
- B. ALL PIPE SHALL BE INSTALLED ABOVE CEILINGS, INSIDE WALLS OR IN CONCEALED SPACES.
- C. DISINFECTION OF POTABLE WATER SHALL BE PERFORMED IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION. THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE. PROCEED AS RAPIDLY AS CONSTRUCTION WILL PERMIT. SET FIXTURES LEVEL AND IN PROPER ALIGNMENT. INSTALL SUPPLIES IN PROPER ALIGNMENT WITH FIXTURES PER MANUFACTURER'S ROUGH-IN DIMENSIONS. INSTALL SILICONE SEALANT BETWEEN FIXTURES AND ADJACENT MATERIAL, FOR SANITARY JOINT. REPAIR ANY DAMAGE DONE TO EXISTING FEATURES AND RESTORE TO ORIGINAL CONDITIONS. PROVIDE CLEAN CONDITIONS AT TERMINATION OF WORK.
- D. TEST WASTE AND WATER UNDER ACTUAL OPERATING CONDITIONS. REPAIR LEAKS AND RETURN TO SERVICE. TEST WASTE PIPING AT 15 FEET OF HEAD FOR 24 HOURS. TEST WATER PIPING AT 125 PSI FOR 2 HOURS. MAKE REPAIRS WITH NEW MATERIALS. REPLACE LEAKING MATERIALS, DO NOT REPAIR BY PATCHING. REPEAT TEST UNTIL STANDARDS ARE ACHIEVED.
- E. PROVIDE DISCHARGE WATER BACKFLOW PREVENTERS AT ALL COFFEE MAKERS, ICE MAKERS, DISHWASHERS, WATER COOLERS, AIR CONDITIONING UNIT HUMIDIFIERS AND OR ANY OTHER DEVICE REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION. BACK FLOW PREVENTERS SHALL BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- F. INSULATE ALL DOMESTIC HOT AND COLD WATER PIPING.
- G. PROVIDE DIELECTRIC COUPLINGS AT ALL FERROUS TO NONFERROUS PIPE CONNECTIONS AND FLANGE UNION ISOLATING JOINTS TO PREVENT ANY ELECTROLYTIC ACTION BETWEEN DISSIMILAR METALS.
- H. ALL SAW CUT OF FLOOR SHALL BE PATCHED BACK TO MATCH EXISTING FINISHES. BACKFILL PER SOILS ENGINEER'S RECOMMENDATIONS. SEAL WITH WATERPROOF MEMBRANE ALL SLAB PENETRATIONS 6" OUT FROM AND 6" UP THE DEMISING WALL
- I. GUARANTEE THE WORK AND THE INSTALLATION FOR ONE YEAR AFTER FORMAL ACCEPTANCE BY THE OWNER.
- J. ALL PIPES SHALL BE HUNG FROM BUILDING STRUCTURE WITH INSERTS EMBEDDED NO MORE THAN 2".

PLUMBING GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH THE BUILDING, MECHANICAL, AND PLUMBING CODES OF THE STATE OF NEW YORK, AND ALL THE LAWS, ORDINANCES, RULES, CODES AND REGULATIONS OF ALL GOVERNMENTAL AUTHORITIES HAVING JURISDICTION AND THE NATIONAL FIRE PROTECTION ASSOCIATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND DETERMINING THE EXISTING CONDITIONS IN WHICH THE WORK IS TO BE PERFORMED. PROVIDE ALL WORK INDICATED ON THE CONTRACT DOCUMENTS.
3. THE CONTRACTOR SHALL REMOVE AND DISCONNECT ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE BEST ENGINEERING PRACTICE AND UNLESS OTHERWISE INDICATED.
4. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN THE CONTRACT AREA AND ALL OTHER AREAS USED FOR STORAGE, STAGING, ETC. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: WASHING (AND REPAIRING), REMOVING SPOTS AND STAINS, CLEANING ALL FIXTURES AND WASHING ALL FLOORS, WALLS AND CEILINGS (IF APPROPRIATE).
5. REFER TO MECHANICAL SHEETS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND DUCTWORK AND COORDINATE ALL WORK TO BE REMOVED.
6. THE CONTRACTOR SHALL PROVIDE NECESSARY PIPING, VALVES, TRAPS, TEMPORARY FEEDS, DRIPS, ETC. AS REQUIRED. DRAIN AND REFILL PIPING SYSTEMS AS OFTEN AS NECESSARY TO ACCOMMODATE PHASING AND TO MINIMIZE TIME LENGTH OF OUTAGES.
7. WHERE REQUIRED TO MAINTAIN THE EXISTING SYSTEMS IN OPERATION, THE CONTRACTOR SHALL TEMPORARILY BACKFEED EXISTING SYSTEMS FROM NEW EQUIPMENT. CONTRACTOR SHALL TEMPORARILY EXTEND EXISTING PIPING SYSTEMS TO NEW PIPING SYSTEMS WITH THE APPROPRIATE SHUT - OFF VALVES.
8. AT COMPLETION OF PROJECT ALL TEMPORARY PIPING, VALVES, CONTROLS, ETC. SHALL BE REMOVED IN THEIR ENTIRETY.

PLUMBING NOTES	DRAWN BY: CRS CHECKED BY: JLC SCALE: AS NOTED DATE: 20 OCT 2019	CAPITAL PROJECT 1483 CONSTRUCTION OF A NEW ANIMAL SHELTER FACILITY 65 FIREMENS MEMORIAL DRIVE, POMONA, NY 10970	rauhaus freedreifeld & associates 	ARCHITECTS SCA...	NO. 1 DESCRIPTION ADDENDUM #1 DATE 11/1/21	REVISION
	East Coast Office 97 Broadway Boston, MA 02118 P. 617.426.2657 F. 617.426.2657					
	West Coast Office 23101 Mobilian Pkwy #106 Laguna Hills, CA 92653 P. 949.746.8555 F. 949.746.8555					
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SMT - Surface Mount Remote

PLAN VIEW

FRONT VIEW

SIDE VIEW

CS-188A

SIDE VIEW
(Surface Wall-Tubing)

SIDE VIEW
(IN-WALL TUBING)

Side View
(In Wall Tubing)

Note: 2" PVC CHASES ARE REQUIRED FOR EACH REMOTE STATION AND ARE NOT QUOTED OR SUPPLIED BY SMT

CS-1608 B

2" PVC electrical conduit with 90 deg. sweep elbow at top above ceiling

TOP VIEW

Use 90° sweep elbow above ceiling and through wall if necessary

Ceiling

48" AFF

FRONT VIEW

2" PVC electrical conduit

48" AFF

40" - 80" AFF
48" RECOMMENDED

FLOOR

SIDE VIEW

Alternate Direction - Sweep Elbow

2" PVC Electrical Conduit

Cinder Block

Remote Box

DETAIL A

4 1/2" x 3" Slot

NOTE: 2" PVC CHASES ARE REQUIRED FOR EACH REMOTE STATION AND ARE NOT QUOTED OR SUPPLIED BY SMT

NOTES

- 1-Cut or block bottom of 4 1/2" x 3" opening 48" above finished floor
- 2-Ensure there are no obstructions
- 3-Secure conduit chase in wall centered at 1/2" from right side of 4 1/2" x 3" opening at front inside of Masonry Block
- 4-Do not cover 4 1/2" x 3" opening.
- 5-Remote box will mount on surface of finished wall.
- 6-Call for Technical Support (800) 548-3373
- 7-Special Provision required for turreted out masonry wall.

CHASE INSTALLATION
MASONRY WALL
SURFACE REMOTE
533-2710

P-29 INTERIOR HIGH PRESSURE WASHER REMOTE STATION ROUGH-IN DETAIL #3
NOT TO SCALE

SMT - Surface Mount Remote

No obstructions here

2" PVC electrical conduit with sweep elbow at top above ceiling
(Not D W V Pipe)

Mount blocking flush with stud

Drywall

Stud

Top View

Use 90° sweep elbow above ceiling

Conduit support backing

Ceiling

2" PVC electrical conduit

Blocking support as needed

3/4" Blocking

Stud

16" 48" AFF

Front View

TYP DRYWALL PANEL, TILE, ETC.

DETAIL A

Stud

4 1/2" x 3" Slot

4 1/2"

Side View
(In Wall Tubing)

Sweep elbow must exit wall above the ceiling

Alternate direction

Ceiling

Strap conduit to blocking

2" PVC conduit

Strap conduit to blocking

Notes:

1. Mount the blocking with bottom of 4 1/2" x 3" opening 48" above finished floor.
2. Ensure there are no obstructions behind opening in the panel.
3. Make sure the blocking is mounted flush with stud.
4. Secure blocking firmly to both studs.
5. Secure conduit chase to back of blocking centered at 1/2" from right side of 4 1/2" x 3" opening.
6. Do not cover 4 1/2" x 3" opening.
7. Remote box will mount on surface of finished wall.
8. Call for Technical Support (800) 548-3373

Note: 2" PVC CHASES & BACKING ARE REQUIRED FOR EACH REMOTE STATION AND ARE NOT QUOTED OR SUPPLIED BY SMT

Blocking & Chase Installation
Surface Mount Remote
ACD-300-2067

SMT - Non-Masonry Remote

90° S.S. TUBE
CONTROL CABLE
THERMO INSULATION
DRYWALL OR PANEL
800-5513 REMOTE STATION BOX
48" AFF
3/4" Blocking
STUD

90° S.S. TUBE
CONTROL CABLE
THERMO INSULATION
DRYWALL OR PANEL
800-5513 REMOTE STATION BOX
48" AFF
STUD

Sweep elbow must exit wall above the ceiling.
Alternate direction
Ceiling
Strap conduit to blocking
2" PVC conduit
3/4" Blocking
Drywall
Strap conduit to blocking
48" AFF

Single Layer
Side View

Note: 2" PVC CHASES ARE REQUIRED FOR EACH REMOTE STATION AND ARE NOT QUOTED OR SUPPLIED BY SMT

CS- 5213 B

P-29 EXTERIOR HIGH PRESSURE WASHER REMOTE STATION ROUGH-IN DETAIL #1
NOT TO SCALE

Detail A

Plywood/Drywall
Brick

Brick or Veneer on outside of building

9.75 x 8.20 Opening

48" AFF

Front View

Conduit protruding above wall or ceiling grid

Conduit sleeve

2.500

Align electrical conduit above opening

Brick or Veneer

Plywood

Conduit Strip

Align Conduit above cutout

Hose Rear entry

Studded Wall

32"-48" AFF
48" Recommended

Rear View looking inside drywall wall

Side View

Note: 2" Electrical conduit chases are required for each sleeve and are not quoled or supplied by SMT.

Instructions for Brick or Veneer walls:

1. Cut or block bottom of 9.75" x 8.20" opening 48" above finished floor.
2. Remove the block foam from the back side of sleeve covering hole.
3. Ensure the depth of the opening is 4.25" Minimum. Cut opening between the outside brick and studded wall on the inside of building.
4. Block or mount sleeve in opening and ensure the sleeve is level and flush with front of the brick or stone veneer wall.
5. Align a 2" rigid non metallic conduit chase above the opening inside the drywall centered 2.50 inches from the right of the opening. Route the conduit chase up through the top of the studded wall above the ceiling grid. Secure the conduit so it will not move or become misaligned.
6. Call for Technical Support (800)548-3373 Ext 6467.

Remote Sleeve Instruction in Brick or Stone Veneer Sheet Rear Entry

P-29 EXTERIOR HIGH PRESSURE WASHER REMOTE STATION ROUGH-IN DETAIL #2
NOT TO SCALE

SMT - Universal Sleeve

Front View Inside Studded Wall

Remote Sleeve

Blocking/Stud

Blocking support if needed

48" AFF

Rear View

2" hole aligned with sleeve and drilled through wall

Side View

SS chase covering hose or tubing

40"-60" AFF
48" Recommended

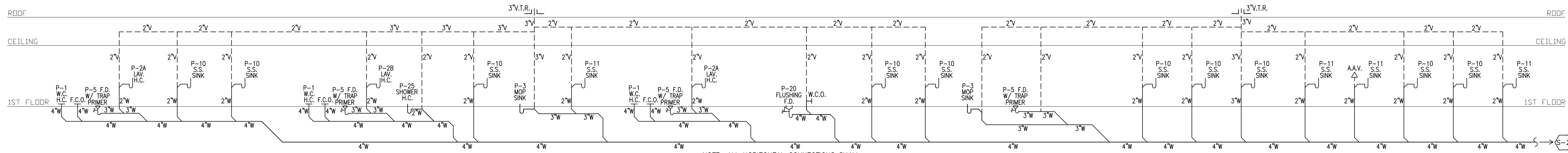
Stud Wall

Instructions for studded walls:

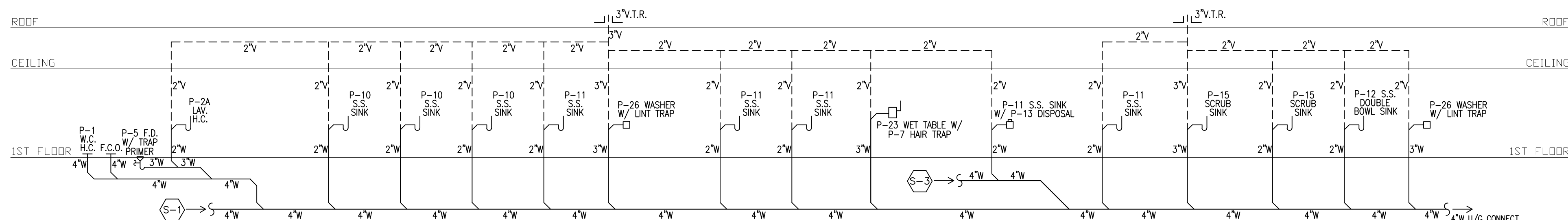
1. Remove the remote sleeve instruction sheet cover.
2. Remove the black foam from the back and inside of the sleeve. Remove the two grippers if needed.
3. Mount the bottom of the remote sleeve at 48" above finished floor.
4. Place blocking or stud on the right hand side of the sleeve.
5. Ensure sleeve is level and mounted flush with front of the studs. Secure sleeve to the studs or blocking on both sides using screws on the inside of sleeve through the stored holes.
6. Place a blocking on the lower side of sleeve for additional support if needed.
7. Drill 2" hole aligned with hole on the back side of the studded for installation of tubing or hose at later time.
8. Call for Technical Support (800)548-3373 Ext 6487.

Remote Sleeve installed in studded wall with drywall rear entry.

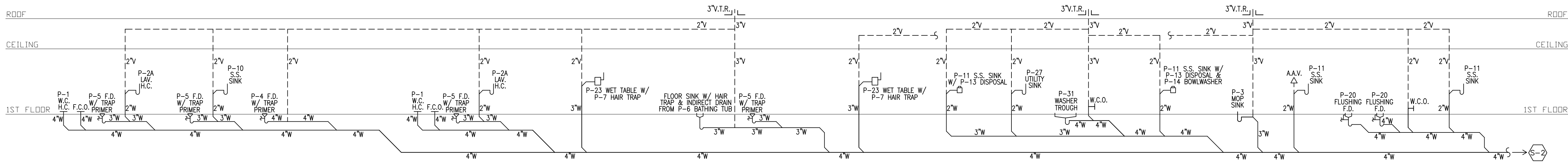
P-29 EXTERIOR HIGH PRESSURE WASHER REMOTE STATION ROUGH-IN DETAIL #3
NOT TO SCALE



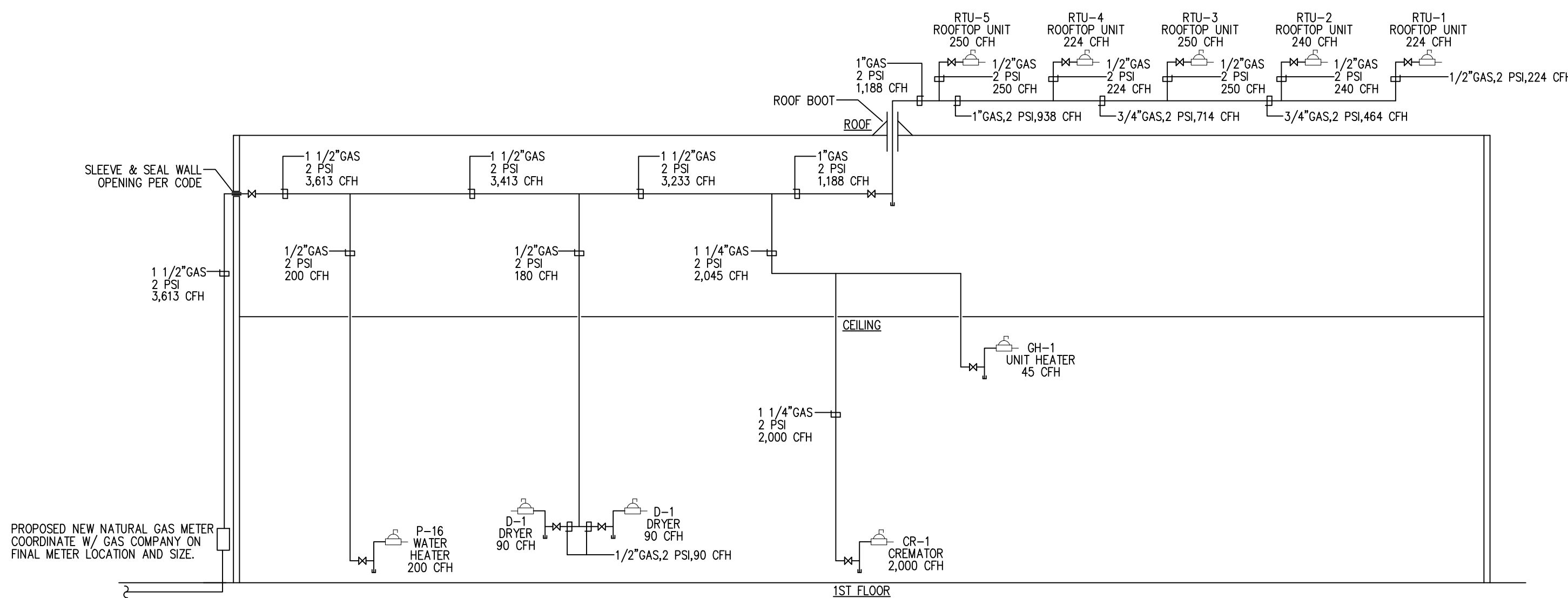
NOTE: ALL HORIZONTAL CONNECTIONS SHALL BE WYE OR LONG SWEEP ELS TYPICAL.
 (S-1) SANITARY WASTE RISER DIAGRAM
 NOT TO SCALE



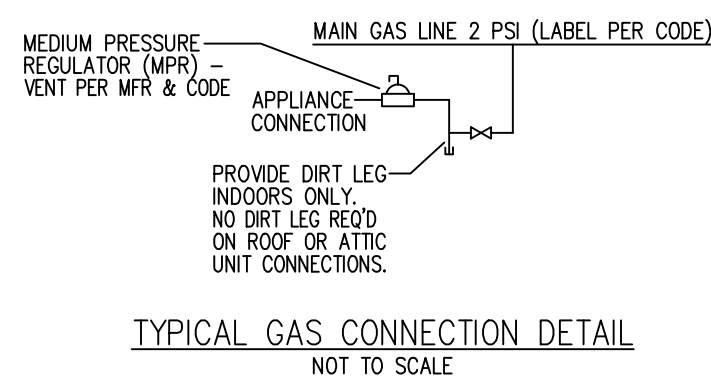
NOTE: ALL HORIZONTAL CONNECTIONS SHALL BE WYE OR LONG SWEEP ELS TYPICAL.
 (S-2) SANITARY WASTE RISER DIAGRAM
 NOT TO SCALE



NOTE: ALL HORIZONTAL CONNECTIONS SHALL BE WYE OR LONG SWEEP ELS TYPICAL.
 (S-3) SANITARY WASTE RISER DIAGRAM
 NOT TO SCALE



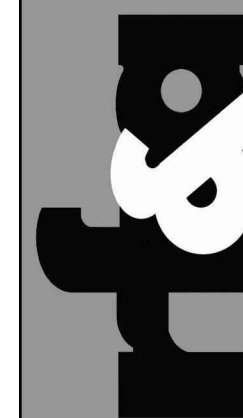
NATURAL GAS RISER DIAGRAM
 NOT TO SCALE



REVISION	DESCRIPTION	DATE
NO. 1		11/11/21

ARCHITECTS
 SEAL:

West Coast Office
 2700 E. 10th Ave.
 Los Angeles, CA 90059
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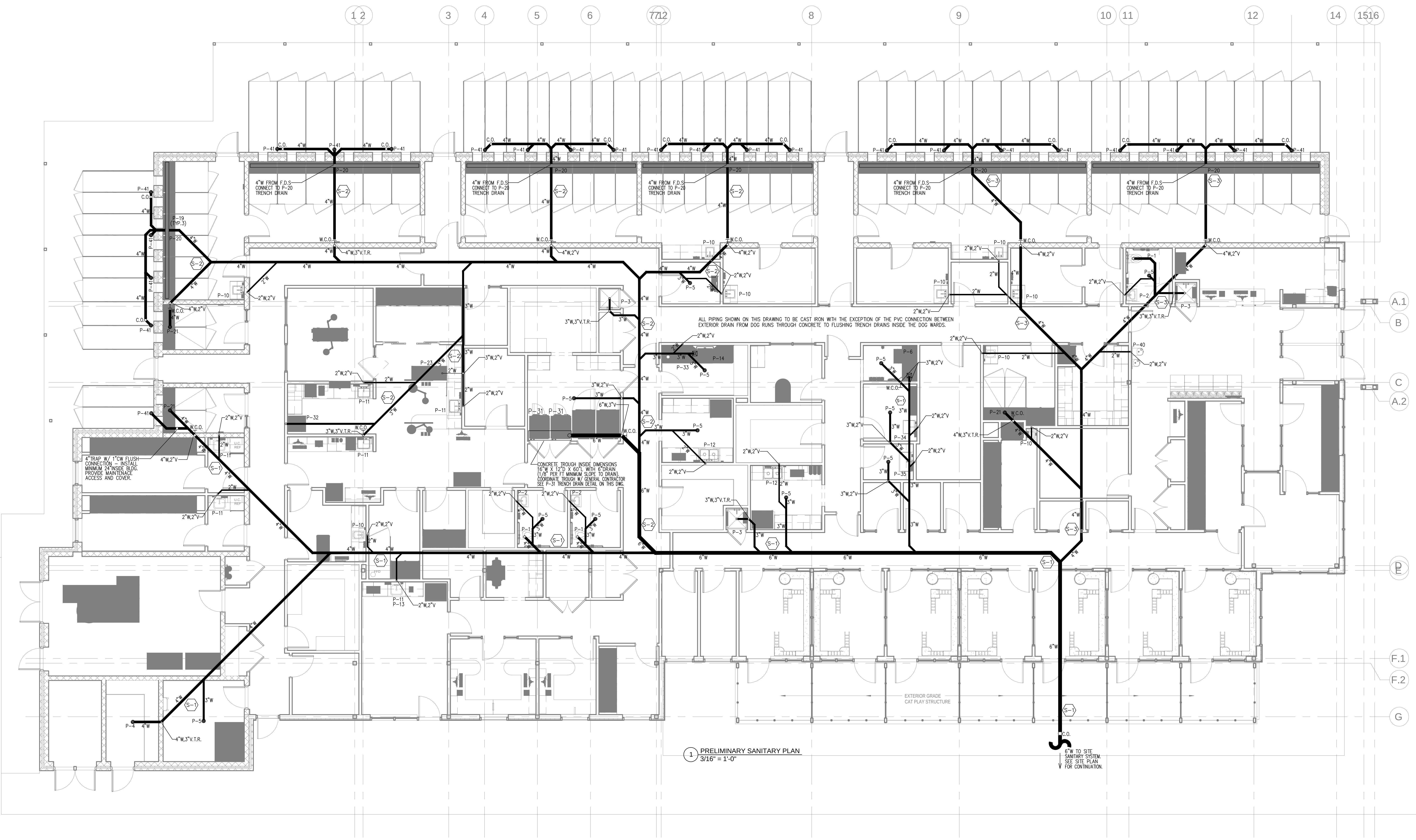
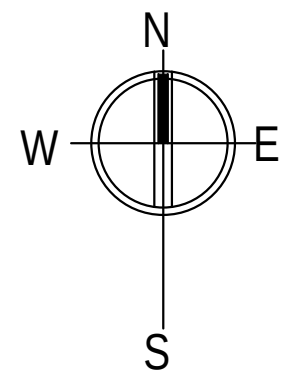
CAPITAL PROJECT 1483
 CONSTRUCTION OF A NEW ANIMAL SHELTER FACILITY
 65 FIREMENS MEMORIAL DRIVE, POMONA, NY 10970

DRAWN BY:	CRS
CHECKED BY:	JLC
SCALE:	AS NOTED
DATE:	20 OCT. 2021
PROJECT NO.:	2019

SANITARY WASTE & NATURAL
 GAS RISER DIAGRAMS

PROGRESS SET ☐ BID SET ☒ CONSTRUCTION SET ☐ PERMIT SET ☐

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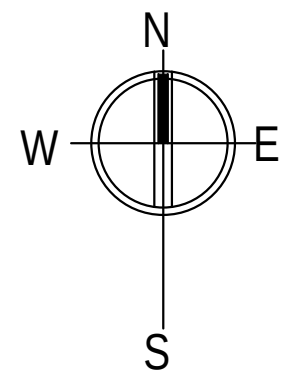
1 PRELIMINARY SANITARY PLAN
3/16" = 1'-0"

ALL PIPING SHOWN ON THIS DRAWING TO BE CAST IRON WITH THE EXCEPTION OF THE PVC CONNECTION BETWEEN EXTERIOR DRAIN FROM DOG RUNS THROUGH CONCRETE TO FLUSHING TRENCH DRAINS INSIDE THE DOG WARDS.

CONCRETE TROUGH INSIDE DIMENSIONS 16" W X 12" D X 60" L WITH 6" DRAIN (1/8" PER FT MINIMUM SLOPE TO DRAIN) COORDINATE TROUGH W/ GENERAL CONTRACTOR SEE P-31 TRENCH DRAIN DETAIL ON THIS DWG.

4" TRAP W/ 1" CW FLUSH CONNECTION - INSTALL MINIMUM 24" INSIDE BLOC. PROVIDE MAINTENANCE ACCESS AND COVER.

6" W TO SITE SANITARY SYSTEM. SEE SITE PLAN FOR CONTINUATION.



REVISION	DESCRIPTION	DATE
NO. 1	ADDENDUM #1	11/11/21

ARCHITECT'S SEAL:

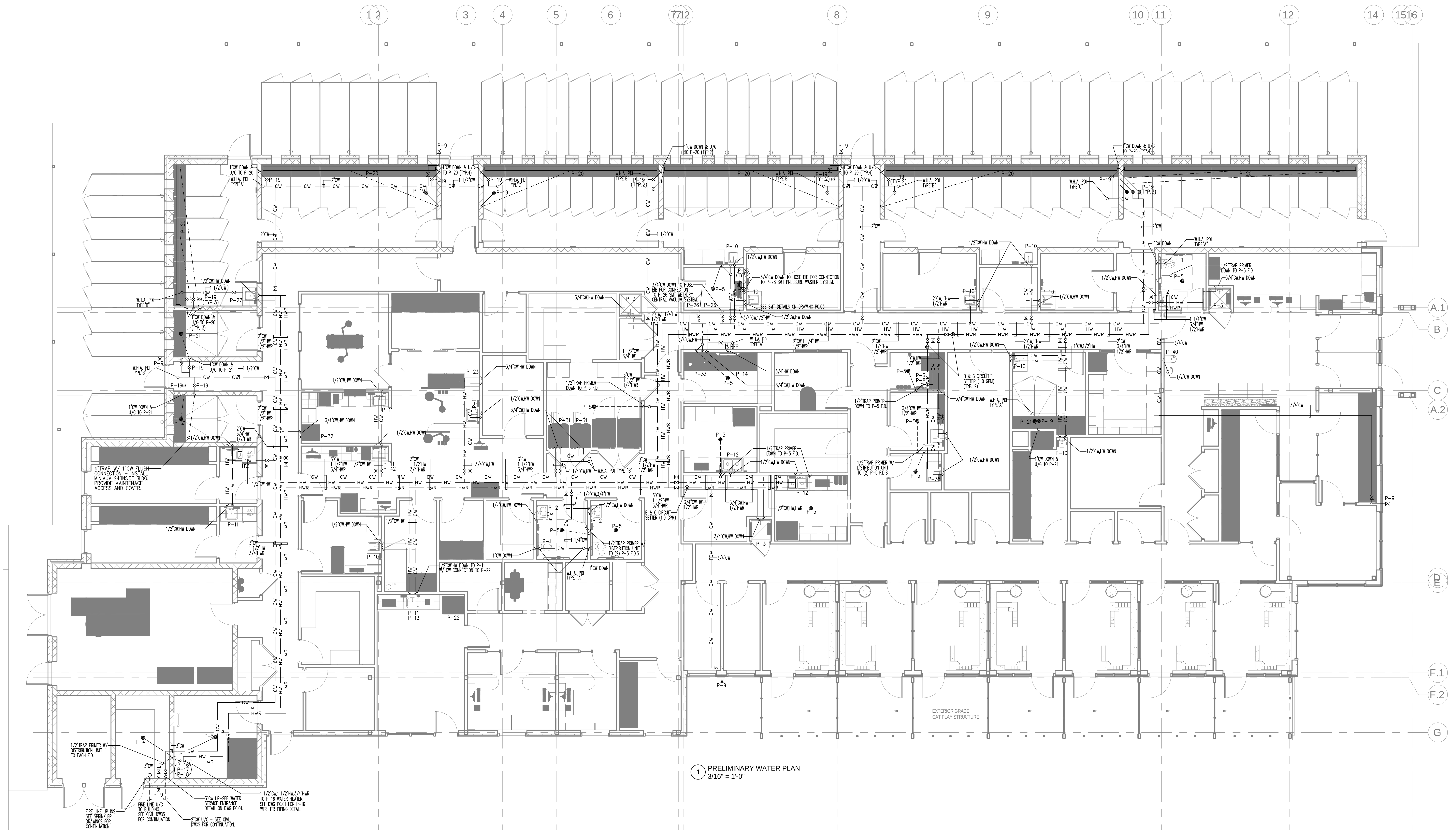
West Coast Office
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CAPITAL PROJECT 1483
CONSTRUCTION OF A NEW ANIMAL SHELTER FACILITY
65 FIREMENS MEMORIAL DRIVE, POMONA, NY 10970

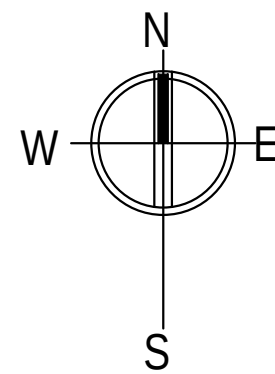
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CHECKED BY:	JLC	DATE:	20 OCT. 2021
SCALE:	AS NOTED	CONSTRUCTION SET	☐
PERMIT SET	☐	BID SET	☐



1 PRELIMINARY WATER PLAN
3/16" = 1'-0"

CDi
620 Pennsylvania Ave
Winchester, VA 22601
Phone 540-665-2846
Fax 540-667-3284

Comfort Design Inc.
Mechanical & Electrical
Engineers
Job # E2119



REVISION	DESCRIPTION	DATE
NO. 1	ADDENDUM #1	11/11/21

ARCHITECTS
SEAL:

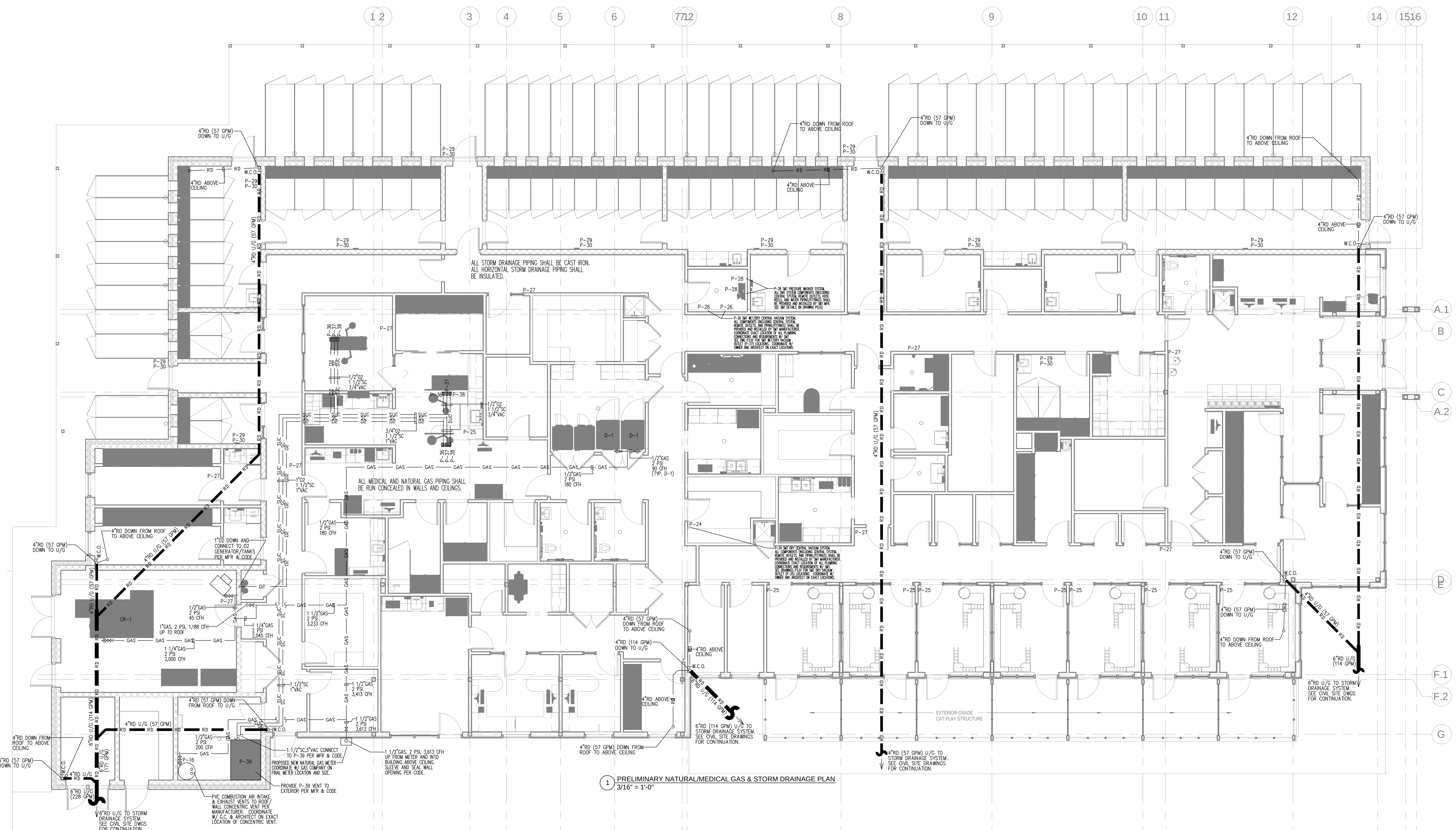
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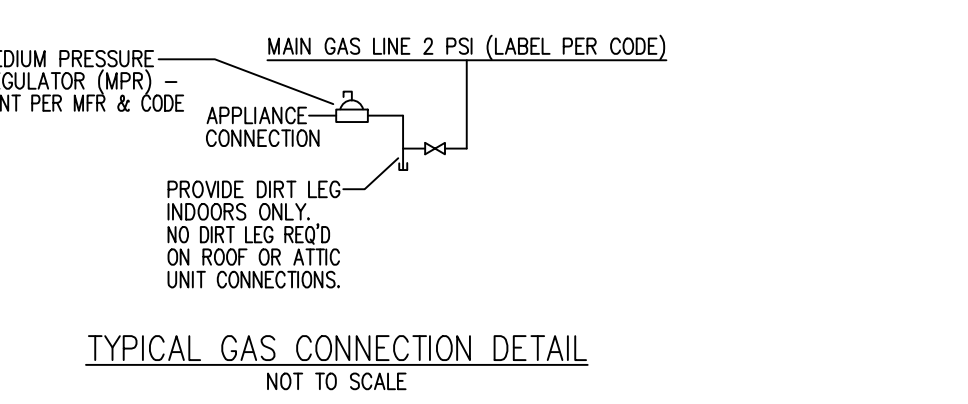
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PERMIT SET:		BID SET:	



NATURAL GAS LOAD TABLE				
MARK	UNIT DESCRIPTION	MFR OR EQUAL	MODEL	INPUT BTU/H
P-16	WATER HEATER	A.O. SMITH	BTH-199	200,000
D-1	COMMERCIAL DRYER	GIRBAU	CG30-40	90,000
D-2	COMMERCIAL DRYER	GIRBAU	CG30-40	90,000
RTU-1	ROOFTOP UNIT	CARRIER	48HCFE08K2AA5DWH	224,000
RTU-2	ROOFTOP UNIT	CARRIER	48HCFE14K2AA5DWH	240,000
RTU-3	ROOFTOP UNIT	CARRIER	48HCFE12K2AA5DWH	250,000
RTU-4	ROOFTOP UNIT	CARRIER	48HCFE08K2AA5DWH	224,000
RTU-5	ROOFTOP UNIT	CARRIER	48HCFE12K2AA5DWH	250,000
GH-1	UNIT HEATER	MODINE	HD45	45,000
CR-1	CREMATION UNIT	MES	IEB-16	2,000,000
SUMMARY TOTALS FOR GAS LOADS				3,613 CFH

NATURAL GAS PIPE SIZING BASED ON THE 2020 FUEL GAS CODE OF NY STATE, TABLE 402.4(5), 2 PSI PRESSURE W/ 1.0 PSI PRESSURE DROP.
GAS = 0.60 SPECIFIC GRAVITY, SCHEDULE 40 PIPE AND 150 FEET.
(1000 BTU/H = 1 CFH)



- GAS PIPING LEGEND:**
- O2 — O2 — MEDICAL GAS GRADE COPPER OXYGEN (O2) PIPING W/ HANGERS/SUPPORTS PER CODE.
 - SUC — SUC — MEDICAL GAS GRADE COPPER SUCTION (SUC) PIPING W/ HANGERS/SUPPORTS PER CODE.
 - SC — SC — SCH 40 PVC SCAVENGER (SC) PIPING W/ HANGERS/SUPPORTS PER CODE.
 - GAS — GAS — NATURAL GAS SCH 40 STEEL PIPING W/ LABEL PER CODE.

1 PRELIMINARY NATURAL/MEDICAL GAS & STORM DRAINAGE PLAN
3/16" = 1'-0"

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