

PIPE AND FITTING MATERIALS PERMITTED		
UNDERGROUND BUILDING DRAINAGE AND VENT PIPE		
MATERIAL	PIPE STANDARD	FITTING STANDARD
CAST IRON PIPE	ASTM A 14; ASTM A 889; GSP1 301	ASTM B 16.4; ASTM B 16.12; ASTM A 14; ASTM A 889; GSP1 301
ABOVE-GROUND BUILDING DRAINAGE AND VENT PIPE		
MATERIAL	PIPE STANDARD	FITTING STANDARD
CAST IRON PIPE	ASTM A 14; ASTM A 889; GSP1 301	ASTM A 14; ASTM A 889; GSP1 301

HANGER SCHEDULE (2015 NSPC, CHAPTER 8)		
MATERIAL	MAX. HORIZONTAL SPACING (FT)	MAX. VERTICAL SPACING (FT)
CAST IRON PIPE	5	AT BASE AND EACH STORY HEIGHT
COFFER TUBING, 1-1/4" DIAMETER AND SMALLER	6	10
COFFER TUBING, 1-1/2" DIAMETER AND LARGER	10	10
CPVC TUBING, 1" DIAMETER AND SMALLER	NOTES 1,2	NOTES 1,3
CPVC TUBING, 1-1/4" DIAMETER AND LARGER	NOTES 1,2	NOTES 1,3
PVC PIPE	NOTES 1,2	NOTES 1,3
STEEL PIPE, 3/4" DIAMETER AND SMALLER	10	AT EVERY OTHER STORY
STEEL PIPE, 1" DIAMETER AND LARGER	12	15
NOTES: 1. PLASTIC DRAIN, WASTE, AND VENT PIPE SHALL BE INSTALLED AND SUPPORTED AS RECOMMENDED BY THE MANUFACTURER'S INSTRUCTIONS. 2. MAXIMUM HORIZONTAL SUPPORT SPACING SHALL BE BASED ON THE PIPE SCHEDULE OR WALL THICKNESS, THE PIPE SIZE, THE SYSTEM OPERATING TEMPERATURE, THE AMBIENT TEMPERATURE, AND ANY CONCENTRATED LOADS. 3. VERTICAL PIPE SHALL BE MAINTAINED IN STRAIGHT ALIGNMENT WITH SUPPORTS AT EACH STORY HEIGHT. INTERMEDIATE SUPPORTS SHALL BE PROVIDED WHERE REQUIRED FOR STABILITY.		

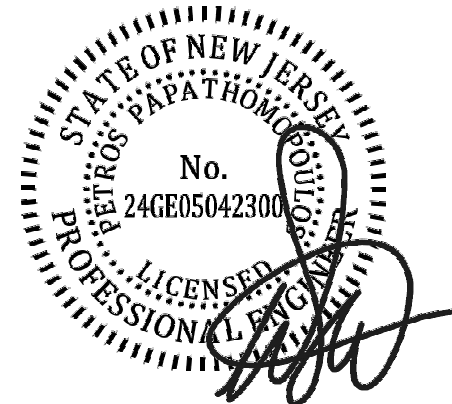
ABBREVIATIONS	
APRX	APPROXIMATE
ARCH	ARCHITECTURAL
BFP	BACKFLOW PREVENTER
BTU	BRITISH THERMAL UNIT
BTU/HOUR	
CO	CLEANOUT
CWS	COLD WATER SUPPLY
°F	DEGREES (FAHRENHEIT)
DN	PIPE DOWN, THROUGH FLOOR
DROP	PIPE DOWN, NOT THROUGH FLOOR
DWH	DOMESTIC WATER HEATER
DWV	DRAIN, WASTE, AND VENT
(E)	EXISTING
ELEV	ELEVATION
FD	FLOOR DRAIN
FS	FLOOR SINK
FPO	FLOOR PLATE CLEANOUT
GAS	LOW PRESSURE GAS (BELOW 0.5 PSI)
GPM	GALLONS PER MINUTE
HNR	DOMESTIC HOT WATER RETURN
HWS	DOMESTIC HOT WATER SUPPLY
N/A	NOT APPLICABLE
NTS	NOT TO SCALE
PSI	POUNDS PER SQUARE INCH
PRV	PRESSURE REDUCING VALVE
RISE	PIPE UP, NOT THROUGH FLOOR ABOVE
SAN	SANITARY
TYP	TYPICAL
V	VENT PIPING

PLUMBING LEGEND	
SYMBOLS	DESCRIPTION
—∩—	P TRAP
HOH	BALL VALVES
—∩—	PIPE DOWN/DROP
—O—	PIPE UP/RISE
— —	PIPE UNION
◆	POINT OF NEW CONNECTION/DISCONNECTION
⬡	KEYED NOTE SYMBOL

GENERAL NOTES:

1. THESE GENERAL PLUMBING NOTES SHALL APPLY TO ALL P-SERIES DRAWINGS, IN COORDINATION WITH DIVISION 22 SECTIONS, AND FRONT END (DIVISION 0 AND 1) REQUIREMENTS. ALL WORK ASSOCIATED WITH THE P-SERIES DRAWINGS SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID CONFLICTS.
2. ALL WORK SHALL BE PERFORMED IN COOPERATION WITH THE OWNER (AND/OR OWNER'S REPRESENTATIVE) AND THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE CONSTRUCTION SCHEDULE ESTABLISHED BY THE OWNER AND ARCHITECT, AND SHALL IMMEDIATELY REPORT ANY DELAYS IN MATERIALS RECEIPT INCLUDING CIRCUMSTANCES CAUSING DELAYS.
3. CONTRACT DRAWINGS FOR THE PLUMBING WORK ARE DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND TO INDICATE THE GENERAL ARRANGEMENT AND APPROXIMATE LOCATION OF EQUIPMENT, PIPING, AND ACCESSORIES. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL CONDITIONS, DIMENSIONS, AND LOCATIONS PRIOR TO BIDDING PROJECT. CHECK PROJECT DRAWINGS PRIOR TO INSTALLATION FOR INTERFERENCES WITH OTHER TRADES. SHOULD THE CONTRACTOR FIND SUCH INTERFERENCES, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH OTHERS. THE OWNER RESERVES THE RIGHT TO MAKE REASONABLE CHANGES PRIOR TO ROUGH-IN WITHOUT ADDED EXPENSE. DIMENSIONS INDICATED ARE SUBJECT TO VERIFICATION OF EXACT SITE CONDITIONS AT THE TIME OF INSTALLATION.
- THE CONTRACTOR SHALL INSTALL ALL PIPING, EQUIPMENT, FIXTURE, ETC. IN A WORKMAN MANNER WITH QUALIFIED PLUMBERS.
4. ALL PLUMBING WORK SHALL BE INSTALLED PER LOCAL PLUMBING CODE, HEALTH CODE, FIRE CODE, ENERGY CONSERVATION CODE, AND BUILDING CODE. ALL WORK SHALL COMPLY TO ACCORDANCE OF LOCAL, STATE AND FEDERAL REGULATIONS AND OTHER AUTHORITIES HAVING JURISDICTION. **NATIONAL STANDARD PLUMBING CODE 2015, IS IN EFFECT FOR THIS PROJECT.**
5. CONTRACTOR RESPONSIBLE FOR PAYING FOR ALL FEES ASSOCIATED WITH OBTAINING PERMITS, INSPECTIONS, ETC.
6. THE INSTALLING CONTRACTOR SHALL BE LICENSED IN THE LOCAL JURISDICTION PRIOR TO BIDDING ON PROJECT. CONTRACTOR TO CONTACT CITY/TOWNSHIP TO VERIFY LICENSE TO ENSURE THEY ARE CURRENT.
7. ALL PLUMBING EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. ANY CONFLICTS WITH INSTALLATION AND MANUFACTURER RECOMMENDATIONS SHALL BE REPORTED TO ENGINEER.
8. CUTTINGS AND PATCHING - ALL NOTES BELOW HOLD THE COMMON CONDITION "UNLESS OTHERWISE NOTED":
- **FOR RENOVATIONS:** THE CONTRACTOR REQUIRING CUTTING SHALL BE RESPONSIBLE FOR HIS/HER OWN WORK WHETHER DESCRIBED IN THE CONTRACT DOCUMENTS OR NOT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CUTTING AND PATCHING REQUIREMENTS WITH OTHER TRADES.
 - **FOR NEW CONSTRUCTION:** ALL CUTTING AND PATCHING THROUGH ALL WALL, CEILING, ETC. SHALL BE PROVIDED BY PLUMBING CONTRACTOR IN COORDINATION WITH THE GENERAL WORK. ALL PAINTING AND FINISHING SHALL BE DONE BY GENERAL CONTRACTOR. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH GENERAL CONTRACTOR.
 - **OPENINGS MADE POST-FINISH:** IF AN OPENING IS REQUIRED IN A FINISHED SURFACE AFTER COMPLETION, DUE TO LACK OF COORDINATION OR PROPER SCHEDULE MAINTENANCE, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CUTTING AND PATCHING REQUIRED TO FINISH SPECIFIC PLUMBING WORK AND RESTORE THE FINISHED SURFACE TO PREVIOUS CONDITION.
 - **UNDERGROUND PIPING (NEW CONSTRUCTION):** TRENCING SHALL BE BY GENERAL CONTRACTOR. PIPE INSTALLATION WITH APPROPRIATE BEDDING MATERIAL SHALL BE BY THE PLUMBING CONTRACTOR. BACKFILL ABOVE PIPE AND BEDDING SHALL BE BY THE GENERAL CONTRACTOR BASED ON REQUIREMENTS OF THE STRUCTURAL PLANS AND SPECIFICATIONS.
 - **UNDERGROUND PIPING FINISHED FLOORS OTHER THAN CONCRETE:** UNLESS OTHERWISE NOTED, TRENCING, EXCAVATION, BACKFILLING, COMPACTION AND RESTORATION OF THE FLOORING SUBSTRATE SHALL BE PERFORMED BY THIS CONTRACTOR. FINAL FINISHED FLOOR SHALL BE BY OTHERS.
 - **EQUIPMENT OPENINGS:** OPENINGS REQUIRED FOR REMOVAL OF EXISTING EQUIPMENT OR INSTALLATION OF NEW EQUIPMENT SUPPLIED UNDER THIS CONTRACT SHALL BE CUT AND PATCHED BY THIS CONTRACTOR.
9. ALL PIPING PENETRATING ALL FIRE-RATED WALLS, CEILING, FLOORS, ROOFS, ETC. SHALL BE FIRE STOPPED IN ACCORDANCE WITH DIVISION 1.
10. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE COMPLETE AND OPERABLE SYSTEMS, INCLUDING OPERATIONAL PROPERTIES TO THE EXTENT NECESSARY TO LINK MULTIPLE COMPONENTS OF THE SYSTEMS TOGETHER AND TO INTERFACE WITH SYSTEMS PROVIDED BY OTHERS. THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL SYSTEMS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
- THE CONTRACTOR SHALL PROVIDE OWNER WITH ALL NECESSARY OPERATION AND MAINTENANCE MANUALS, SHOP DRAWINGS, WIRING DIAGRAMS, AND WARRANTY PAPERWORK UPON COMPLETION OF THE PROJECT.
11. THE CONTRACTOR SHALL LOCATE ACCESS PANEL IN NON-ACCESSIBLE CEILING AND WALLS FOR ALL VALVES, SHOCK ABSORBERS, CLEANOUTS AND ALL OTHER ITEMS THAT REQUIRE ACCESS TO PROPERLY MAINTAIN OR SERVICE.
12. THE CONTRACTOR IS RESPONSIBLE FOR TESTING AND ADJUSTING ALL PLUMBING EQUIPMENT INDICATED IN THE PLUMBING DRAWINGS.
13. THE MINIMUM SLOPE OF ALL INTERIOR SEWER LINES SHALL BE 1/4 INCH PER FOOT FOR SIZES 2-1/2" AND SMALLER, 1/8 INCH PER FOOT FOR SIZES 3"-6", AND 1/16 INCH PER FOOT FOR SIZES 6" AND GREATER. SEE SCHEDULE LOCATED ON DRAWING FOR CONNECTION SIZES FOR SANITARY, VENT, COLD, AND HOT WATER PIPING. SEE SCHEDULE FOR PIPING MATERIALS.
14. ALL PIPING PENETRATIONS THROUGH EXPOSED WALLS SHALL BE PROVIDED WITH CHROME ESCUTCHEONS AND SEAL TO WALL OR CEILING.
15. ALL NATURAL GAS PIPING SHALL BE INSTALL PER INTERNATIONAL FUEL GAS CODE AND AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL PROVIDE SHUT OFF GAS VALVE FOR ALL EQUIPMENT UTILIZING GAS. CONTRACTOR SHALL PROVIDE 6" DIRT LEE (MINIMUM) FOR ALL EQUIPMENT UTILIZING GAS.
16. ALL NATURAL GAS PIPING SHALL BE TESTED PER THE LIST BELOW. ALL TESTING SHALL CONFORM TO INTERNATIONAL STATE FUEL GAS CODE.
- PRESSURE UP TO AND INCLUDING 12" P.S.G.: 15 PSI FOR ONE (1) HOUR.
 - PRESSURE ABOVE 12" P.S.G.: 1-1/2 TIMES THE WORKING PRESSURE, OR 50 PSI (MINIMUM) FOR ONE (1) HOUR.
 - COATED OR UNPAINTED PIPING: 100 PSIG FOR ONE (1) HOUR.
19. UPON COMPLETION OF PROJECT, THE CONTRACTOR SHALL FLUSH AND SANITIZE THE DOMESTIC HOT, REGRULATION AND COLD WATER PIPING IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.
19. EQUIPMENT CONNECTIONS:
- ALL EQUIPMENT SHALL BE PROVIDED WITH UNIONS AND SHUT-OFF VALVES WHETHER DETAILED OR NOT.
 - ALL PLUMBING FIXTURES SHALL BE PROVIDED WITH SHUT OFF VALVES.
20. NATURAL GAS REGULATOR VENT PIPING SHALL EXTEND TO THE EXTERIOR OF THE BUILDING AND TERMINATE IN ACCORDANCE WITH NFPA 54 AND/OR NFPA 58. EXTERIOR PIPING SHALL BE PAINTED WITH TWO COATS OF PRIMER AND ONE COAT OF FINISH PAINT COLOR TO BE DETERMINED BASED COLOR OF SURROUNDING SURFACES.
21. FOR PROJECTS WITH APPROVED USE OF PVC AND CPVC PIPING, SUCH PIPING SHALL BE PROHIBITED IN THE FOLLOWING LOCATIONS.
- AREAS OF ASSEMBLY.
 - RETURN AIR PLenums.
 - EXIT DISCHARGE CORRIDORS.
 - STAIRS.
22. RODENT PROOFING - IN OR ON STRUCTURES WHERE OPENINGS HAVE BEEN MADE IN FLOORS, CEILING, OR WALLS FOR THE PASSAGE OF PIPE, SUCH OPENINGS SHALL BE CLOSED AND PROTECTED WITH APPROVED METAL COLLARS THAT ARE SECURELY FASTENED TO THE ADJOINING STRUCTURE.
23. STRUCTURAL SAFETY - IN THE PROCESS OF INSTALLING OR REPAIRING ANY PART OF A PLUMBING OR DRAINAGE SYSTEM, THE FINISHED FLOOR, WALLS, CEILING, TILE OR ANY OTHER PART OF THE BUILDING OR PREMISES THAT MUST BE CHANGED OR REPLACED SHALL REMAIN IN A STRUCTURALLY SAFE CONDITION.
24. PROTECTION OF PIPES AND PLUMBING SYSTEM COMPONENTS - PIPING AND OTHER SYSTEM COMPONENTS SHALL BE INSTALLED IN SUCH A MANNER SO AS TO PREVENT CORROSION, BREAKAGE, FREEZING, AND PHYSICAL DAMAGE BY OTHER BUILDING COMPONENTS.
25. PROTECTION OF WATER QUALITY - A POTABLE WATER SUPPLY SYSTEM SHALL BE DESIGNED, INSTALLED, AND MAINTAINED IN SUCH A MANNER SO AS TO PREVENT CONTAMINATION FROM NON-POTABLE LIQUIDS, SOLIDS, OR GASES BEING INTRODUCED INTO THE POTABLE WATER SYSTEM THROUGH CROSS-CONTAMINATION OR ANY OTHER PIPING CONNECTIONS TO THE SYSTEM.
26. FLOODPROOFING - PLUMBING SYSTEMS AND EQUIPMENT IN STRUCTURES ERRECTED IN AREAS PRONE TO FLOODING SHALL BE CONSTRUCTED IN SUCH A MANNER THAT THE COMPONENTS OF THE SYSTEM SHALL BE CAPABLE OF RESISTING HYDROSTATIC LOADS AND STRESSES IN THE EVENT OF FLOODING.

SEALED:



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REVISIONS

1	DCA COMMENTS	3.14.2016
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PLUMBING - CODES AND
GENERAL NOTES

RCNJ No. 201437-01/C
PHASE 2 : ALTERATIONS
505 RAMAPO VALLEY RD.
MAHWAH, NJ 07430
18031.00

RAMAPO COLLEGE
OF NEW JERSEY



ISSUED:
3.24.2016

DESCRIPTION:
BID DOCUMENTS

SHEET:
P-000

ABBREVIATIONS

APPR	APPROXIMATE
ARCH	ARCHITECTURAL
BFP	BACKFLOW PREVENTER
BTU	BRITISH THERMAL UNIT
BTUH	BTU/HOUR
CO	CLEANOUT
CWS	COLD WATER SUPPLY
°F	DEGREES (FAHRENHEIT)
DN	PIPE DOWN, THROUGH FLOOR
DROP	PIPE DOWN, NOT THROUGH FLOOR
DWH	DOMESTIC WATER HEATER
DWV	DRAIN, WASTE, AND VENT
(E)	EXISTING
ELEV	ELEVATION
FD	FLOOR DRAIN
FS	FLOOR SINK
FGO	FLOOR PLATE CLEANOUT
GAS	LOW PRESSURE GAS (BELOW 0.5 PSI)
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HWR	DOMESTIC HOT WATER RETURN
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N/A	NOT APPLICABLE
NTS	NOT TO SCALE
PSI	POUNDS PER SQUARE INCH
PRV	PRESSURE REDUCING VALVE
RISE	PIPE UP, NOT THROUGH FLOOR ABOVE
SAN	SANITARY
ST	STORM
TYP	TYPICAL
UF	PIPE UP THROUGH FLOOR
UF	PIPE UP THROUGH FLOOR
UF	PIPE UP THROUGH FLOOR
V	VENT PIPING

PLUMBING LEGEND

SYMBOLS	DESCRIPTION
—SO	P TRAP
HOH	BALL VALVES
—D	PIPE DOWN/DROP
—O	PIPE UP/RISE
— — —	PIPE UNION
◆	POINT OF NEW CONNECTION
⊗	POINT OF DISCONNECTION
FS (E)	FLOOR SINK (EXISTING)
FD (E)	FLOOR DRAIN (EXISTING)
FGO (E)	FLOOR CLEANOUT (EXISTING)
11	KITCHEN EQUIPMENT TAG
xx	KEYED NOTE SYMBOL

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- THE INSTALLING CONTRACTOR SHALL BE LICENSED IN THE LOCAL JURISDICTION PRIOR TO BIDDING ON PROJECT. CONTRACTOR TO CONTACT CITY/TOWNSHIP TO VERIFY LICENSE TO ENSURE THEY ARE CURRENT.
- ALL PLUMBING EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. ANY CONFLICTS WITH INSTALLATION AND MANUFACTURER RECOMMENDATIONS SHALL BE REPORTED TO ENGINEER.
- CUTTINGS AND PATCHING - ALL NOTES BELOW HOLD THE COMMON CONDITION "UNLESS OTHERWISE NOTED":
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 - FOR NEW CONSTRUCTION:** ALL CUTTING AND PATCHING THROUGH ALL WALL, CEILING, ETC. SHALL BE PROVIDED BY PLUMBING CONTRACTOR. IN COORDINATION WITH THE GENERAL WORK, ALL PAINTING AND FINISHING SHALL BE DONE BY GENERAL CONTRACTOR. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH GENERAL CONTRACTOR.
 - OPENINGS MADE POST-FINISH:** IF AN OPENING IS REQUIRED IN A FINISHED SURFACE AFTER COMPLETION, DUE TO LACK OF COORDINATION OR PROPER SCHEDULE MAINTENANCE, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CUTTING AND PATCHING REQUIRED TO FINISH SPECIFIC PLUMBING WORK AND RESTORE THE FINISHED SURFACE TO PREVIOUS CONDITION.
 - UNDERGROUND PIPING (NOT CONSTRUCTION):** TRENCHING SHALL BE BY GENERAL CONTRACTOR. PIPE INSTALLATION WITH APPROPRIATE BEDDING MATERIAL SHALL BE BY THE PLUMBING CONTRACTOR. BACKFILL ABOVE PIPE AND BEDDING SHALL BE BY THE GENERAL CONTRACTOR BASED ON REQUIREMENTS OF THE STRUCTURAL PLANS AND SPECIFICATIONS.
 - UNDERGROUND PIPING FINISHED FLOORS OTHER THAN CONCRETE:** UNLESS OTHERWISE NOTED, TRENCHING, EXCAVATION, BACKFILLING, COMPACTION AND RESTORATION OF THE FLOORING SUBSTRATE SHALL BE PERFORMED BY THIS CONTRACTOR. FINAL FINISHED FLOOR SHALL BE BY OTHERS.
 - EQUIPMENT OPENINGS:** OPENINGS REQUIRED FOR REMOVAL OF EXISTING EQUIPMENT OR INSTALLATION OF NEW EQUIPMENT SUPPLIED UNDER THIS CONTRACT SHALL BE CUT AND PATCHED BY THIS CONTRACTOR.
- ALL PIPING PENETRATING ALL FIRE-RATED WALLS, CEILINGS, FLOORS, ROOFS, ETC. SHALL BE FIRE STOPPED IN ACCORDANCE WITH DIVISION 7.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE COMPLETE AND OPERABLE SYSTEMS, INCLUDING OPERATIONAL PROPERTIES TO THE EXTENT NECESSARY TO LINK MULTIPLE COMPONENTS OF THE SYSTEMS TOGETHER AND TO INTERFACE WITH SYSTEMS PROVIDED BY OTHERS. THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL SYSTEMS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
 - THE CONTRACTOR SHALL PROVIDE OWNER WITH ALL NECESSARY OPERATION AND MAINTENANCE MANUALS, SHOP DRAWINGS, WIRING DIAGRAMS, AND WARRANTY PAPER/WORK UPON COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL LOCATE ACCESS PANEL IN NON-ACCESSIBLE CEILING AND WALLS FOR ALL VALVES, SHOCK ABSORBERS, CLEANOUTS AND ALL OTHER ITEMS THAT REQUIRE ACCESS TO PROPERLY MAINTAIN OR SERVICE.
- THE CONTRACTOR IS RESPONSIBLE FOR TESTING, AND ADJUSTING ALL PLUMBING EQUIPMENT INDICATED IN THE PLUMBING DRAWINGS.
- THE MINIMUM SLOPE OF ALL INTERIOR SEWER LINES SHALL BE 1/4 INCH PER FOOT FOR SIZES 2-1/2" AND SMALLER, 1/8 INCH PER FOOT FOR SIZES 3"-6", AND 1/16 INCH PER FOOT FOR SIZES 6" AND GREATER. SEE SCHEDULE LOCATED ON DRAWING FOR CONNECTION SIZES FOR SANITARY, VENT, COLD, AND HOT WATER PIPING. SEE SCHEDULE FOR PIPING MATERIALS.
- ALL PIPING PENETRATIONS THROUGH EXPOSED WALLS SHALL BE PROVIDED WITH CHROME ESCUTCHEONS AND SEAL TO WALL OR CEILING.
- ALL NATURAL GAS PIPING SHALL BE INSTALLED PER INTERNATIONAL FUEL GAS CODE AND AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL PROVIDE SHUT OFF GAS VALVE FOR ALL EQUIPMENT UTILIZING GAS. CONTRACTOR SHALL PROVIDE 6" DIRT LEG (MINIMUM) FOR ALL EQUIPMENT UTILIZING GAS.
 - NATURAL GAS PIPING SHALL BE TESTED PER THE LIST BELOW. ALL TESTING SHALL CONFORM TO INTERNATIONAL STATE FUEL GAS CODE.
 - PRESSURE UP TO AND INCLUDING 12" W.G.: 15 PSI FOR ONE (1) HOUR.
 - PRESSURE ABOVE 12" W.G.: 1 1/2 TIMES THE WORKING PRESSURE, OR 30 PSI (MINIMUM) FOR ONE (1) HOUR.
 - COATED OR WRAPPED PIPING: 100 PSIG FOR ONE (1) HOUR.
- UPON COMPLETION OF PROJECT, THE CONTRACTOR SHALL FLUSH AND SANITIZE THE DOMESTIC HOT, REGULATION AND COLD WATER PIPING IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.
- EQUIPMENT CONNECTIONS:
 - ALL EQUIPMENT SHALL BE PROVIDED WITH UNIONS AND SHUT-OFF VALVES WHETHER DETAILED OR NOT.
 - ALL PLUMBING FIXTURES SHALL BE PROVIDED WITH SHUT OFF VALVES.
- NATURAL GAS REGULATOR VENT PIPING SHALL EXTEND TO THE EXTERIOR OF THE BUILDING AND TERMINATE IN ACCORDANCE WITH NFPA 54 AND/OR NFPA 50. EXTERIOR PIPING SHALL BE PAINTED WITH TWO COATS OF PRIMER AND ONE COAT OF FINISH PAINT. COLOR TO BE DETERMINED BASED COLOR OF SURROUNDING SURFACES.
- FOR PROJECTS WITH APPROVED USE OF PVC AND CPVC PIPING, SUCH PIPING SHALL BE PROHIBITED IN THE FOLLOWING LOCATIONS:
 - AREAS OF ASSEMBLY.
 - RETURN AIR PLUMBING.
 - EXIT DISCHARGE CORRIDORS.
 - STAIRS.
- RODENTPROOFING - IN OR ON STRUCTURES WHERE OPENINGS HAVE BEEN MADE IN FLOORS, CEILINGS, OR WALLS FOR THE PASSAGE OF PIPE, SUCH OPENINGS SHALL BE CLOSED AND PROTECTED WITH APPROVED METAL COLLARS THAT ARE SECURELY FASTENED TO THE ADJOINING STRUCTURE.
- STRUCTURAL SAFETY - IN THE PROCESS OF INSTALLING OR REPAIRING ANY PART OF A PLUMBING OR DRAINAGE SYSTEM, THE FINISHED FLOOR, WALLS, CEILINGS, TILE OR ANY OTHER PART OF THE BUILDING OR PREMISES THAT MUST BE CHANGED OR REPLACED SHALL REMAIN IN A STRUCTURALLY SAFE CONDITION.
- PROTECTION OF PIPES AND PLUMBING SYSTEM COMPONENTS - PIPING AND OTHER SYSTEM COMPONENTS SHALL BE INSTALLED IN SUCH A MANNER SO AS TO PREVENT CORROSION, BREAKAGE, FREEZING, AND PHYSICAL DAMAGE BY OTHER BUILDING COMPONENTS.
- PROTECTION OF WATER QUALITY - A POTABLE WATER SUPPLY SYSTEM SHALL BE DESIGNED, INSTALLED, AND MAINTAINED IN SUCH A MANNER SO AS TO PREVENT CONTAMINATION FROM NON-POTABLE LIQUIDS, SOLIDS, OR GASES BEING INTRODUCED INTO THE POTABLE WATER SYSTEM THROUGH CROSS-CONTAMINATION OR ANY OTHER PIPING CONNECTIONS TO THE SYSTEM.
- FLOODPROOFING - PLUMBING SYSTEMS AND EQUIPMENT IN STRUCTURES ERRECTED IN AREAS PRONE TO FLOODING SHALL BE CONSTRUCTED IN SUCH A MANNER THAT THE COMPONENTS OF THE SYSTEM SHALL BE CAPABLE OF RESISTING HYDROSTATIC LOADS AND STRESSES IN THE EVENT OF FLOODING.

DRINKING FOUNTAIN SCHEDULE

GENERAL		BOWL				TRAP		SUPPLIES/STOPS		UNIT CONNECTIONS				NOTES
TAG	ACCESSIBILITY DESIGNATION	MATERIAL	MOUNTING	MANUFACTURER	MODEL	MANUFACTURER	MODEL	MANUFACTURER	MODEL	CWS SIZE	DRAIN SIZE	VENT SIZE	MINIMUM SUPPLY PRESSURE (PSI)	
EWC-1	ADA WITH BOTTLE FILLER	STAINLESS STEEL	WALL	ELKAY	L259MSVRLP	MCQUIRE	8812	MCQUIRE	H2166CG	1/2"	1-1/4"	1-1/4"	25	

DOMESTIC WATER SUPPLY ACCESSORY SCHEDULE

GENERAL					UNIT PERFORMANCE			NOTES
TAG	DESCRIPTION	ACCESS DESIGNATION	MANUFACTURER	MODEL NUMBER	CWS SIZE	HWS SIZE	PRESSURE RANGE (PSI)	
HB-1	HOSE BIBB, MILD CLIMATE, WITH WALL BOX	N/A	MATTS	HY-330	3/4"	N/A		NICKEL BRONZE BOX FACE
FWA-X	WATER HAMMER ARRESTER	N/A	PRECISION PLUMBING PRODUCTS	SC-SERIES	VARIES	N/A	0-200	(-X) SUFFIX ON PLANS CORRESPONDS TO PDI SIZE OF UNIT

SANITARY/STORM DRAINAGE ACCESSORIES

TAG	DESCRIPTION	MANUFACTURER	MODEL	DRAIN SIZE	NOTES
FD-1	FLOOR DRAIN	MATTS	FD-100-A5	SEE PLANS	
FS-1	FLOOR SINK	MATTS	FS-740-115	4"	2
FGO-1	FLOOR CLEANOUT	MATTS	GO-1200-R	SEE PLANS, 4" MAX	1
GO-1	LINE CLEANOUT	CHARLOTTE	PVC PART 105X	SEE PLANS, 4" MAX	
WGO-1	WALL CLEANOUT	MATTS	GO-460-RD	SEE PLANS, 4" MAX	

NOTES:
1. PROVIDE LINE SIZE FLOOR CLEANOUT UP TO 4" PIPE SIZE. FOR PIPE SIZE GREATER THAN 4", TRANSITION TO 4" PIPE AT RISER TO FGO.
2. PROVIDE WITH 3/4" GRATE.

WATER CLOSET SCHEDULE

GENERAL			BOWL			FLUSH VALVE		SEAT		UNIT CONNECTIONS						NOTES
TAG	MOUNTING	ACCESS DESIGNATION	MANUFACTURER	MODEL	COLOR	MANUFACTURER	MODEL	MANUFACTURER	MODEL	COLOR	FLUSH VOLUME (GPF)	SUPPLY SIZE	DRAIN SIZE	VENT SIZE	MINIMUM SUPPLY PRESSURE (PSI)	
WC-1	FLOOR - TOP SPUD	ADA	AMERICAN STANDARD	MADERA 3034.001	WHITE	SLOAN	OPTMA 111-1-25-ES-B	PROFLO	FFTS6GF2000WH	WHITE	1.6	1"	3"	2"	25	
WC-2	FLOOR - TOP SPUD	NON-ADA	AMERICAN STANDARD	MADERA 3491.001	WHITE	SLOAN	OPTMA 111-1-25-ES-B	PROFLO	FFTS6GF2000WH	WHITE	1.6	1"	3"	2"	25	

URINAL SCHEDULE

GENERAL			BOWL			FLUSH VALVE		CARRIER		UNIT CONNECTIONS						NOTES
TAG	MOUNTING	ACCESS DESIGNATION	MANUFACTURER	MODEL	COLOR	MANUFACTURER	MODEL	MANUFACTURER	MODEL	COLOR	FLUSH VOLUME (GPF)	SUPPLY SIZE	DRAIN SIZE	VENT SIZE	MINIMUM SUPPLY PRESSURE (PSI)	
U-1	WALL - TOP SPUD	ADA	AMERICAN STANDARD	WASHBROOK 8940.001	WHITE	SLOAN	OPTMA 156-1-0 ES-B	MIFAB	MC-32		1.0	3/4"	2"	1-1/2"	25	
U-2	WALL - TOP SPUD	NON-ADA	AMERICAN STANDARD	WASHBROOK 8940.001	WHITE	SLOAN	OPTMA 156-1-0 ES-B	MIFAB	MC-32		1.0	3/4"	2"	1-1/2"	25	

LAVATORY SCHEDULE

GENERAL		BOWL					FAUCET		CARRIER		TRAP		SUPPLIES/STOPS		INSULATION/COVERS		TAILPIECE		UNIT CONNECTIONS				NOTES	
TAG	ACCESSIBILITY DESIGNATION	MATERIAL	MOUNTING	MANUFACTURER	MODEL	COLOR	MANUFACTURER	MODEL	MANUFACTURER	MODEL	MANUFACTURER	MODEL	MANUFACTURER	MODEL	MANUFACTURER	MODEL	MANUFACTURER	MODEL	CWS SIZE	HWS SIZE	DRAIN SIZE	VENT SIZE	MINIMUM SUPPLY PRESSURE (PSI)	
L-1	ALL	VITREOUS CHINA	UNDERMOUNT	AMERICAN STANDARD	OVALYN 0449.221	WHITE	SLOAN	ETF-80	BRADLEY	S59-4000A	PROFLO	FFFTB101	PROFLO	FFXGA232CLK12	TRUEBRO	LAV GUARD 2 102-EZ	PROFLO	FF6SD100	1/2"	1/2"	1-1/2"	1-1/4"	25	

NOTES:

1.

NUMBER OF FAUCETS, TRAPS, DRAINS, SUPPLY SETS, AND COVERS SHALL MATCH THE NUMBER OF BOWLS.

2.

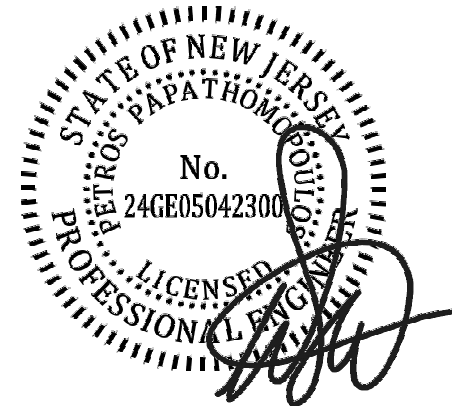
CARRIER SHALL MATCH LAVATORY MANUFACTURER'S RECOMMENDATIONS. NUMBER OF ARMS SHALL MATCH THE NUMBER OF MOUNTING SLEEVES IN THE DECK.

HANGER SCHEDULE

MATERIAL	MAX. HORIZONTAL SPACING (FT)	MAX. VERTICAL SPACING (FT)	NOTES
CAST IRON PIPE	8	15	1
COPPER TUBING, 1-1/4" DIAMETER AND SMALLER	6	10	
COPPER TUBING, 1-1/2" DIAMETER AND LARGER	10	10	
CPVC TUBING, 1" DIAMETER AND SMALLER	9	10	2
CPVC TUBING, 1-1/4" DIAMETER AND LARGER	4	10	2
STEEL PIPE	12	15	
PVC PIPE	4	10	2

NOTES:
1. MAXIMUM HORIZONTAL SPACING OF CAST IRON HANGERS SHALL BE INCREASED TO 10 FEET WHERE 10-FOOT LENGTHS OF PIPE ARE INSTALLED.
2. MID-STORY GUIDE FOR SIZES 2" AND SMALLER.

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REVISIONS

DRAWN BY: MAE
CHECKED BY: MAE/PP

PLUMBING - CODES, GENERAL NOTES, AND SCHEDULES

RCNJ No. 201437-01/C
PHASE 2 : ALTERATIONS
505 RAMAPO VALLEY RD.
MAHWAH, NJ 07430
18031.00

RAMAPO COLLEGE
OF NEW JERSEY

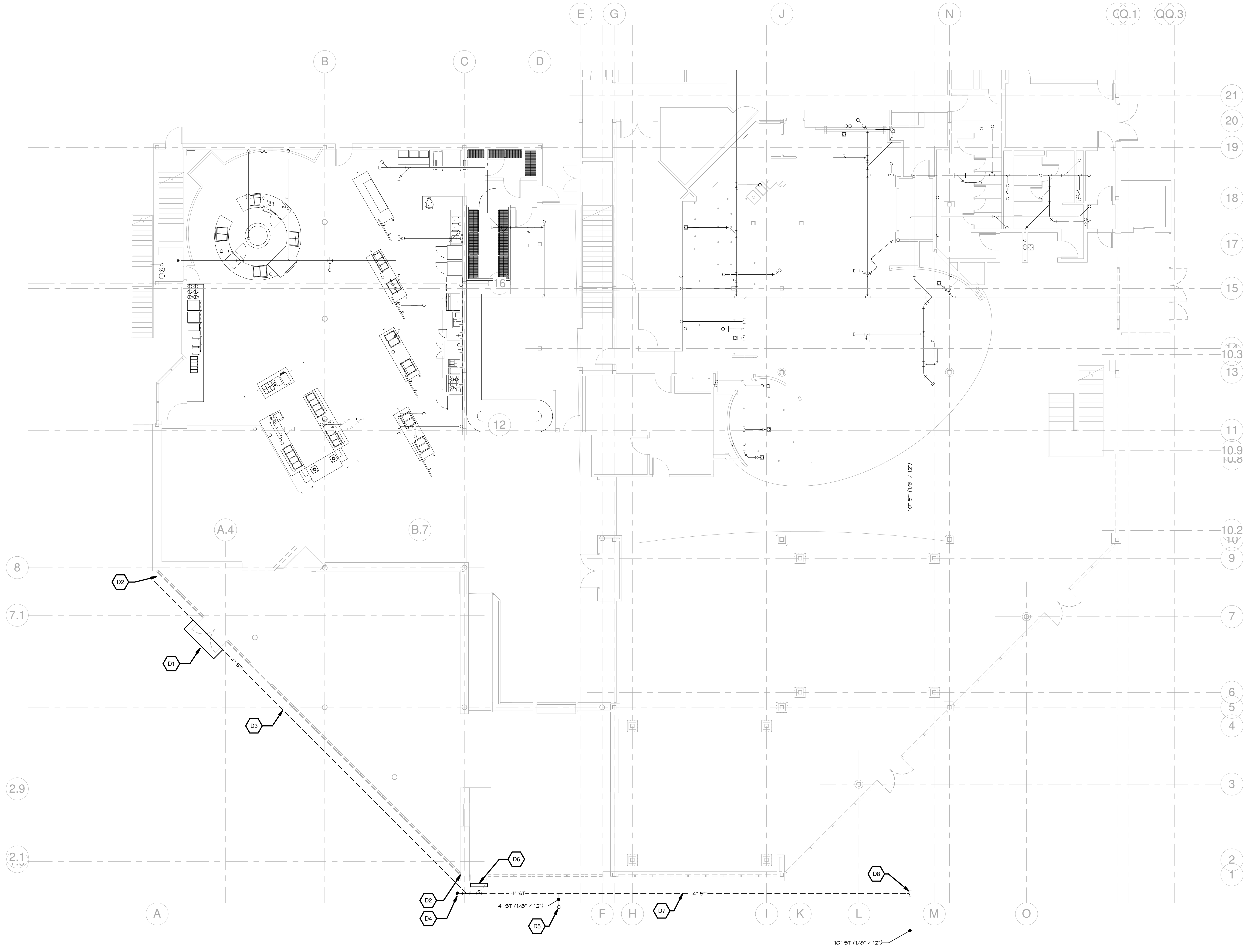


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DESCRIPTION:
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SHEET:

P-001



1 PLUMBING DEMOLITION - EXTERIOR/UNDERGROUND
1/8" = 1'-0"

DEMOLITION

GENERAL NOTES

1. IDENTIFICATION AND/OR ABATEMENT OF HAZARDOUS MATERIALS IS NOT PART OF THIS SCOPE OF WORK. IF ASBESTOS OR OTHER HAZARDOUS MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY. REFER TO SPECIFICATIONS FOR RECYCLING, CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL REQUIREMENTS.
2. OPENINGS IN THE EXISTING STRUCTURE SMALLER THAN 12" IN ANY DIRECTION ARE NOT IDENTIFIED ON THESE DRAWINGS. SUBCONTRACTORS SHALL BE RESPONSIBLE FOR PROVIDING OPENINGS SMALLER THAN 12" AS REQUIRED FOR INSTALLATION OF THEIR WORK.
3. OPENINGS IN THE EXISTING STRUCTURE SHALL NOT BE MADE WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
4. DO NOT REMOVE ITEMS WHICH JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. IF HIDDEN ELEMENTS OR DETERIORATED ELEMENTS ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY.
5. PROTECT ADJACENT AREAS AND ITEMS "TO REMAIN" DURING DEMOLITION/CONSTRUCTION. REPAIR/REPLACE ITEMS DAMAGED DURING CONSTRUCTION.
6. IF UNANTICIPATED HIDDEN ELEMENTS OR DETERIORATED ELEMENTS ARE ENCOUNTERED, NOTIFY THE OWNERS REPRESENTATIVE IMMEDIATELY. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL DEMOLITION WORK.
7. REVIEW w/ OWNER TO DETERMINE WHAT, IF ANYTHING, WILL BE REMOVED BY OWNER AND WHAT, IF ANYTHING, IS TO BE SALVAGED & TURNED OVER TO OWNER.
- 8.

KEYED NOTES

- D1.** DISCONNECT, REMOVE, AND DISCARD AREA DRAIN AND ASSOCIATED PIPING.
- D2.** DISCONNECT, REMOVE, AND DISCARD GUTTERS AND DOWNSPOUTS.
- D3.** EXCAVATE, REMOVE, AND DISCARD 4" ST PIPING. RESTORATION IS NOT REQUIRED SINCE AREA IS BEING EXPANDED UPON.
- D4.** EXCAVATE, REMOVE, AND DISCARD CLEAN OUT, ELBOWS, AND WYES UP TO TRENCH DRAIN CONNECTION.
- D5.** EXISTING AREA DRAIN TO REMAIN. WYE/TEE CONNECTION AT 4" LATERAL MAIN TO BE REMOVED.
- D6.** TRENCH DRAIN AND CONCRETE ENCASUREMENT TO REMAIN. PREPARE OUTLET OF TRENCH DRAIN FOR CONNECTION TO NEW LATERAL.
- D7.** EXCAVATE, REMOVE, AND DISCARD 4" ST PIPE. MAINTAIN EXCAVATION FOR NEW LATERAL INSTALLATION.
- D8.** REMOVE EXISTING 4"x10" WYE AND MAINTAIN FOR NEW LATERAL TIE-IN.

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REVISIONS

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PLUMBING DEMOLITION

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18031.00

**RAMAPO COLLEGE
OF NEW JERSEY**



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DEMOLITION

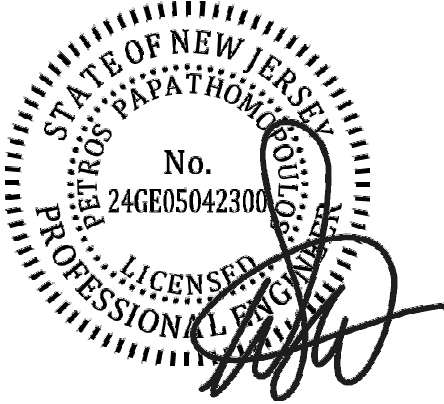
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2. OPENING IN THE EXISTING STRUCTURE SMALLER THAN 12" IN ANY DIRECTION ARE NOT IDENTIFIED ON THESE DRAWINGS. SUBCONTRACTORS SHALL BE RESPONSIBLE FOR PROVIDING OPENINGS SMALLER THAN 12" AS REQUIRED FOR INSTALLATION OF THEIR WORK.
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5. IF UNANTICIPATED HIDDEN ELEMENTS OR DETERIORATED ELEMENTS ARE ENCOUNTERED, NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL DEMOLITION WORK.
6. REVIEW w/ OWNER TO DETERMINE WHAT, IF ANYTHING, WILL BE REMOVED BY OWNER AND WHAT, IF ANYTHING, IS TO BE SALVAGED & TURNED OVER TO OWNER.

KEYED NOTES

1. DISCONNECT DRAIN FROM HOT/COLD WELL TO ALLOW FOR WELL AND COUNTER REMOVAL.
2. DISCONNECT SUPPLIES AND DRAIN FROM SINK TO ALLOW FOR COUNTERTOP REMOVALS.

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PLUMBING DEMOLITION -
FIRST FLOOR

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RAMAPO COLLEGE
OF NEW JERSEY

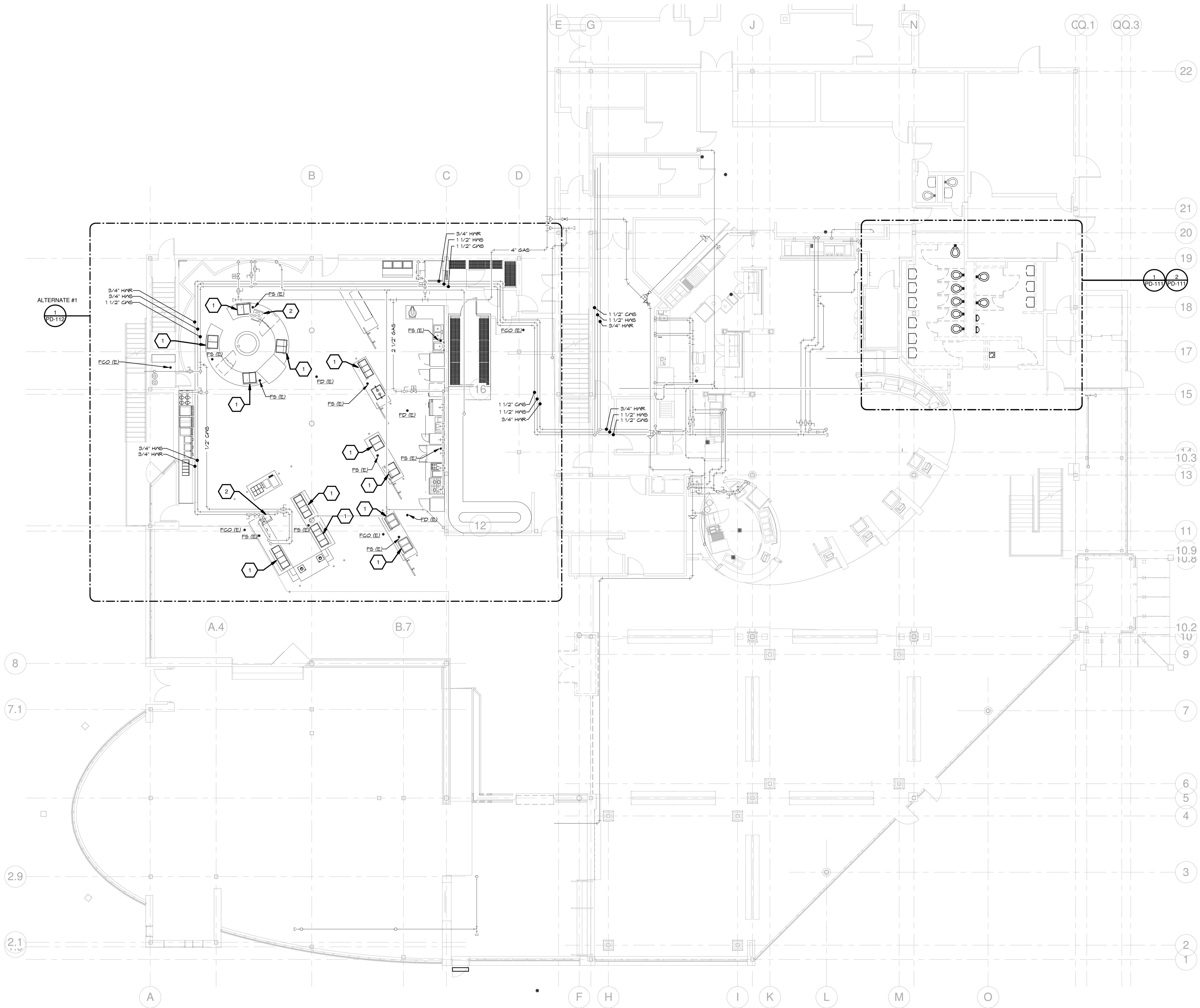


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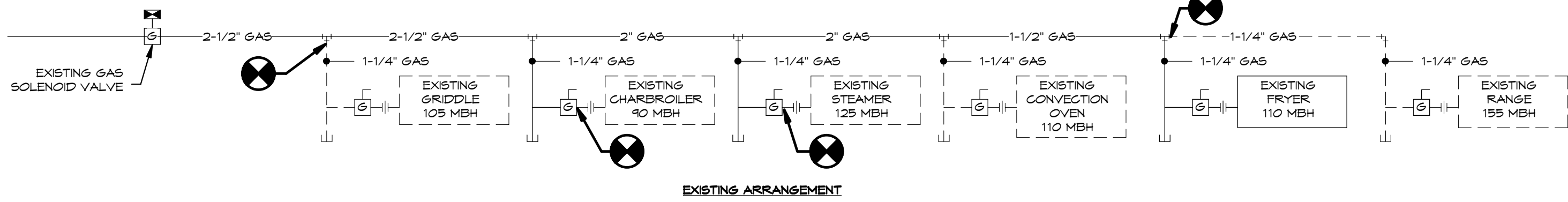
1 PARTIAL DEMOLITION PLAN - GROUND FLOOR

1/8" = 1'-0"

SCALE, IN FEET

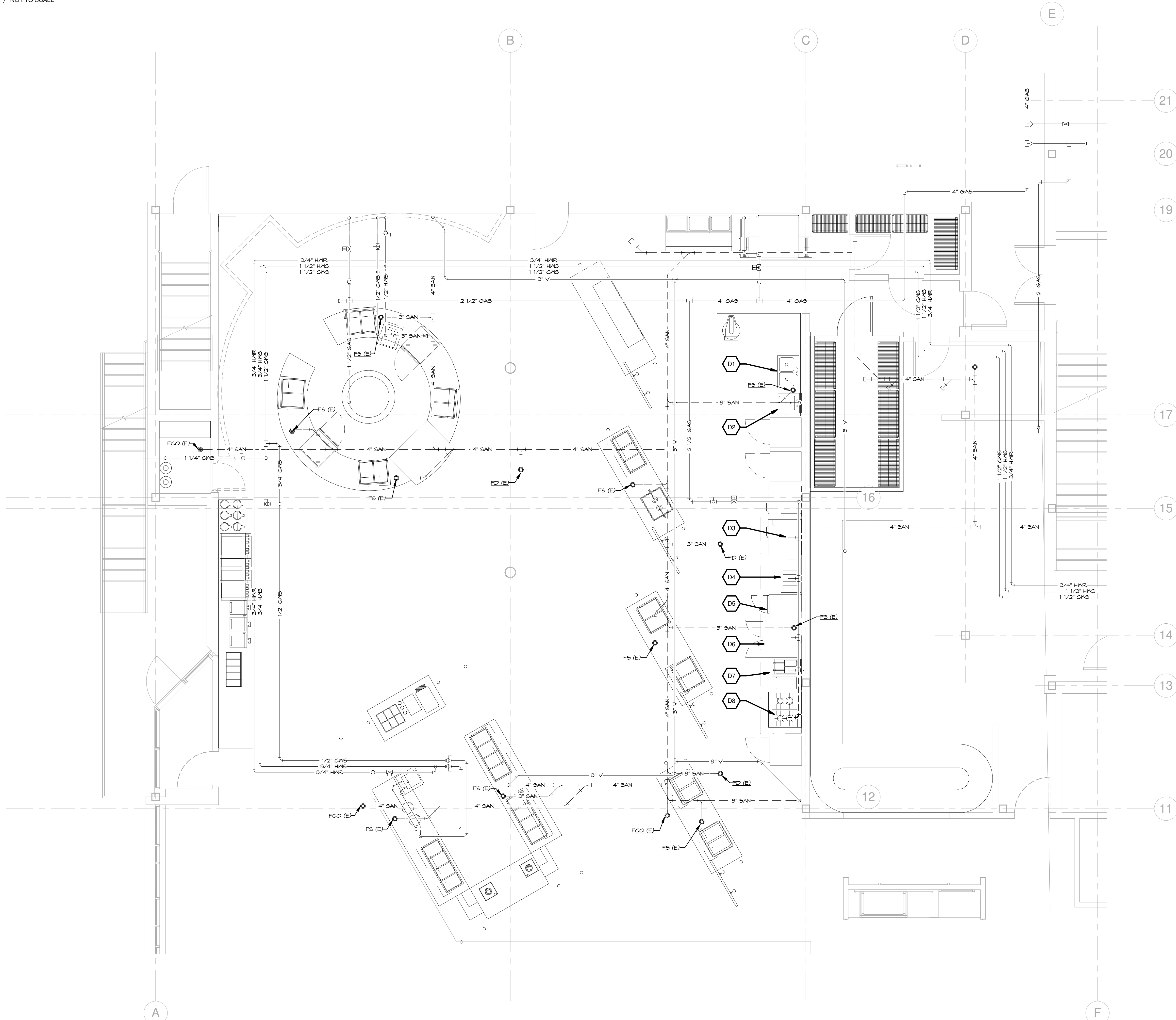


GAS SIZING BASED ON 450' MAXIMUM DEVELOPED LENGTH FROM 2011 PROJECT WHICH ESTABLISHED MAXIMUM LENGTH TO EQUIPMENT ON THE ROOF.
(INTERNATIONAL FUEL GAS CODE, 2015, TABLE 402.4(1), PRESSURE LESS THAN 2.0 PSI, 0.5 PSI DROP).



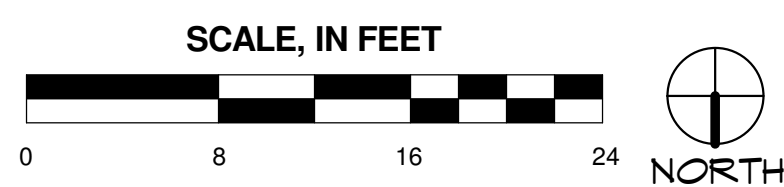
2 GAS PIPING SCHEMATIC - RESIDENTIAL SERVERY EXISTING/DEMO

NOT TO SCALE



1 SERVERY - DEMOLITION - ALTERNATE

1/4" = 1'-0"

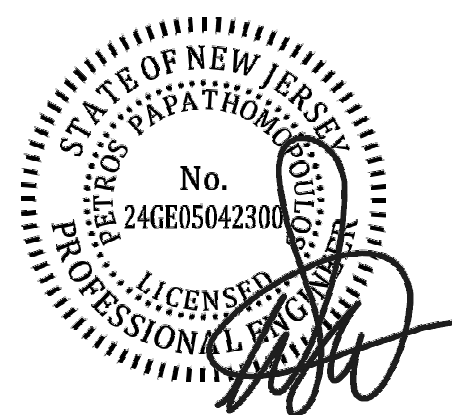


DEMOLITION

KEYED NOTES

- D1.** DISCONNECT SINK AND REMOVE SUPPLIES BACK TO STOPS AT WALL. PIPING AT WALL TO REMAIN FOR NEW CONNECTION. REMOVE AND DISCARD INDIRECT WASTE PIPING.
- D2.** DISCONNECT, REMOVE, AND DISCARD HAND SINK. MAINTAIN SUPPLY AND DRAIN PIPING AT WALL FOR NEW CONNECTION.
- D3.** DISCONNECT GRIDDLE. SEE GAS PIPING SCHEMATIC ON THIS PAGE FOR EXTENT OF REMOVAL.
- D4.** DISCONNECT CHARBROILER. SEE GAS PIPING SCHEMATIC ON THIS PAGE FOR EXTENT OF REMOVAL.
- D5.** DISCONNECT STEAMER. SEE GAS PIPING SCHEMATIC ON THIS PAGE FOR EXTENT OF REMOVAL.
- D6.** DISCONNECT CONVECTION OVEN. SEE GAS PIPING SCHEMATIC ON THIS PAGE FOR EXTENT OF REMOVAL.
- D7.** DISCONNECT FRYER. SEE GAS PIPING SCHEMATIC ON THIS PAGE FOR EXTENT OF REMOVAL.
- D8.** DISCONNECT RANGE. SEE GAS PIPING SCHEMATIC ON THIS PAGE FOR EXTENT OF REMOVAL.

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PLUMBING DEMOLITION - SERVERY - ALTERNATE #1

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**RAMAPO COLLEGE
OF NEW JERSEY**

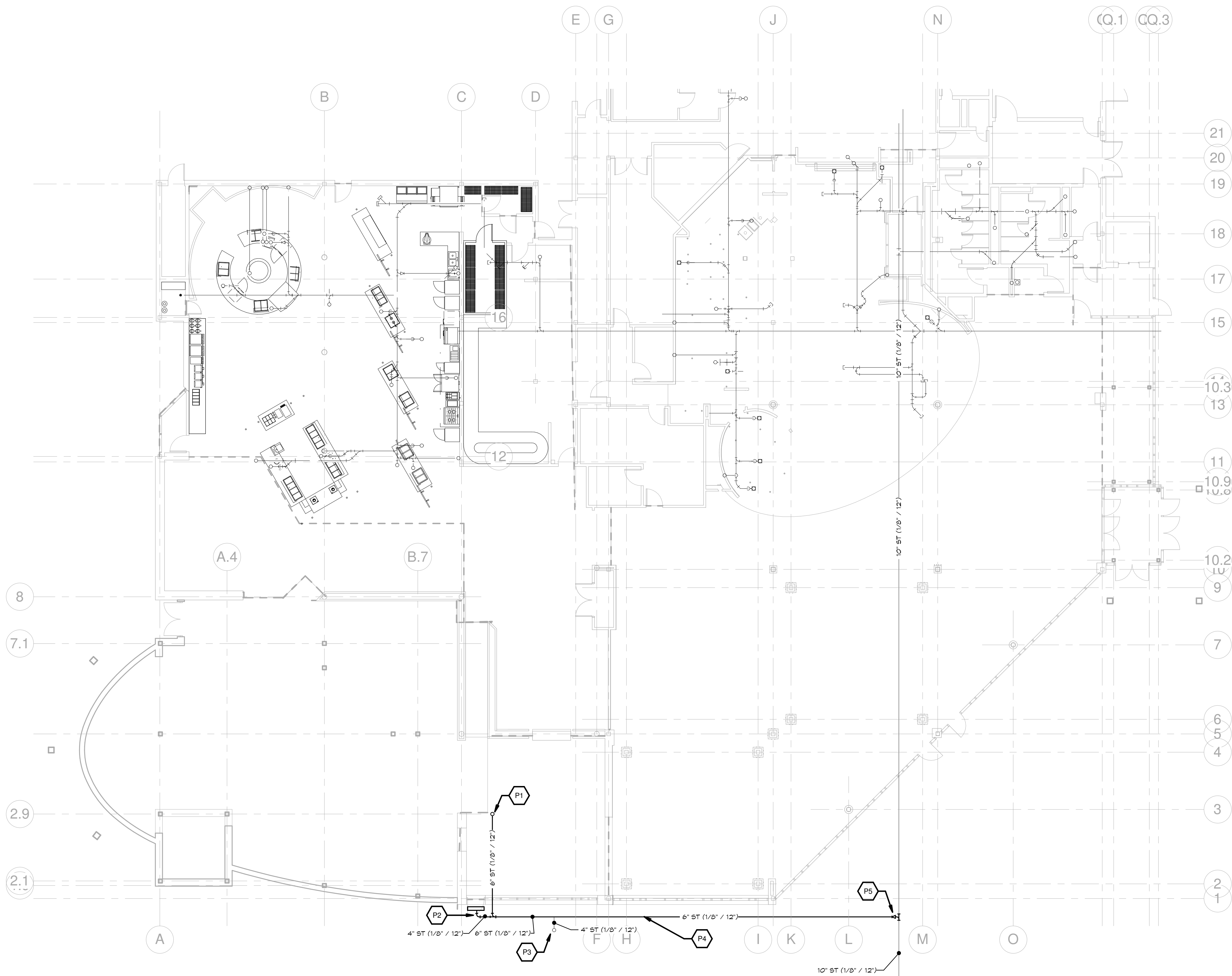


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PD-112



1 PARTIAL UNDERGROUND PLAN
1" = 10'-0"

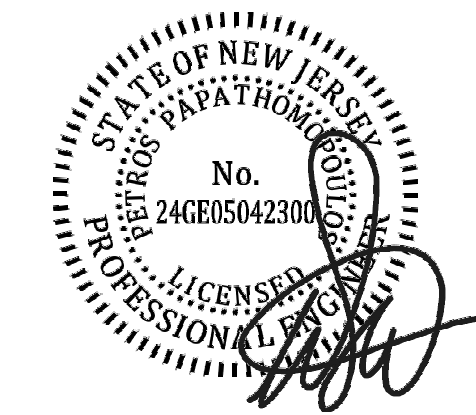
ADDITION/ALTERATION

GENERAL NOTES

KEYED NOTES

- P1.** PROVIDE 6" ST RISER TO FUTURE FIRST FLOOR WALLCHASE. SAWCUT, TRENCH, AND EXCAVATE FOR HORIZONTAL INSTALLATION. BACKFILL, COMPACT, AND PATCH CONCRETE SUBSTRATE TO MATCH EXISTING ADJACENT AREAS. REFER TO A-SERIES DRAWINGS FOR FLOOR FINISH.
- P2.** CONNECT 4" ST TO EXISTING OUTLET FROM TRENCH DRAIN.
- P3.** CONNECT 4" ST FROM AREA DRAIN TO 6" ST LATERAL.
- P4.** PROVIDE 6" ST IN EXCAVATION LEFT BY 4" ST REMOVAL. BACKFILL AND COMPACT EXCAVATION. RESTORE PAVEMENT SYSTEM TO ORIGINAL CONDITION.
- P5.** PROVIDE 6"x10" WYE/TEE TO CONNECT 6" ST LATERAL TO EXISTING 10" ST.

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**PLUMBING UNDERGROUND
PLAN**



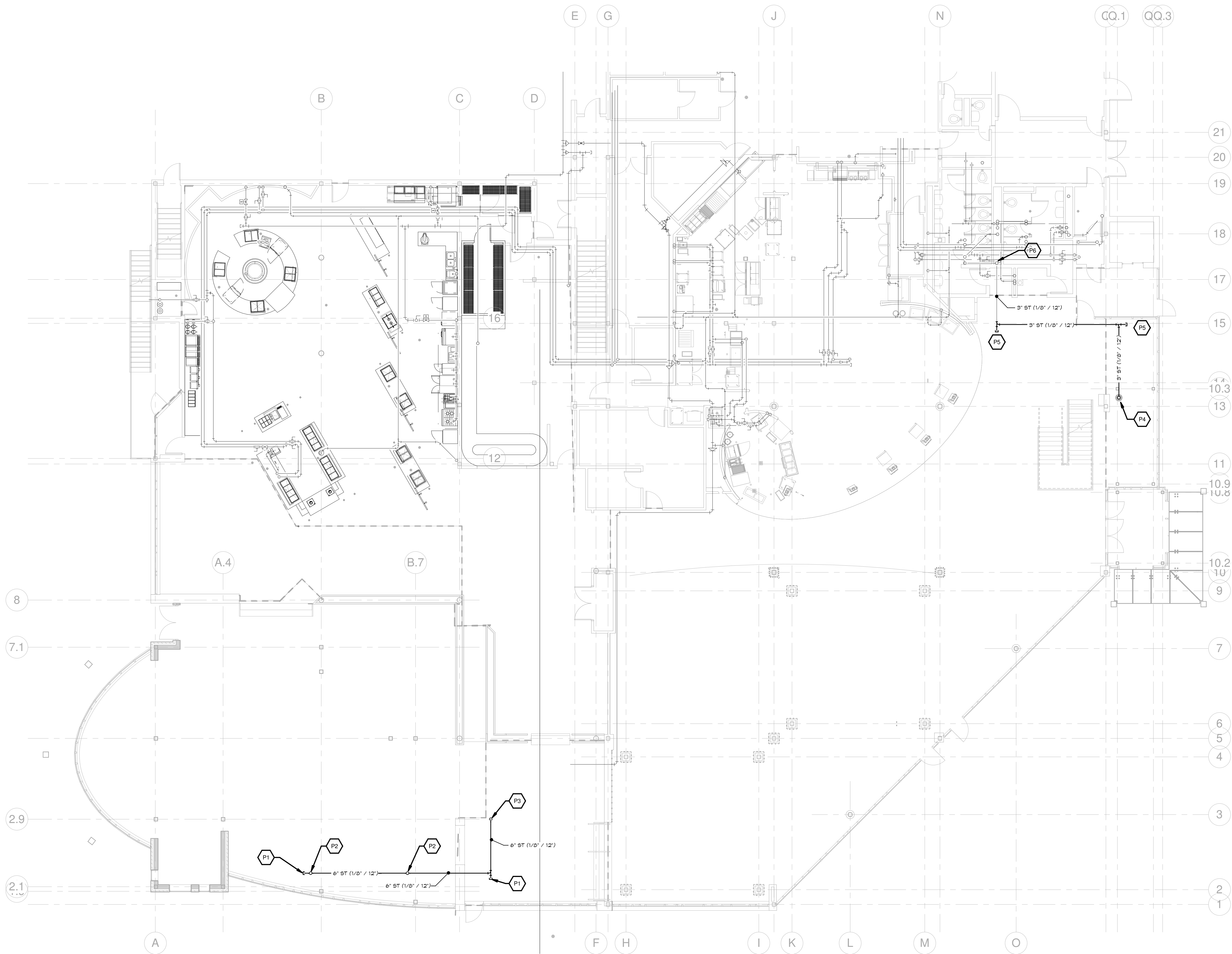
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1 PARTIAL FIRST FLOOR

1/8" = 1'-0"

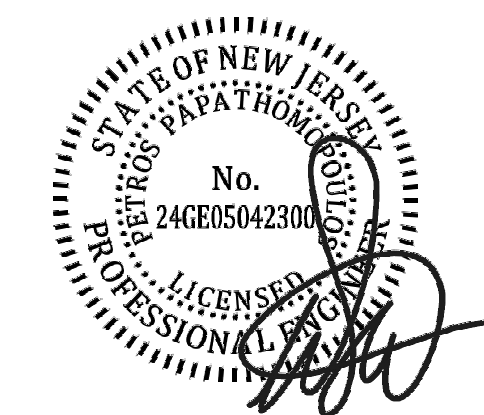
ADDITION/ALTERATION

GENERAL NOTES

KEYED NOTES

- P1.** PROVIDE 4" CLEANOUT PLUG (CO-1) AT OPEN WYE/TEE.
P2. PROVIDE 4" ST UP TO ROOF DRAIN (RD-1, 4").
P3. PROVIDE 6" ST DOWN IN LOCATION OF FUTURE INTERIOR WALL. PROVIDE WALL CLEANOUT (WCO-1) 12" A.F.F.
P4. PROVIDE 3" ST UP TO ROOF DRAIN (RD-1, 3").
P5. PROVIDE 3" CLEANOUT PLUG AT OPEN WYE/TEE.
P6. PROVIDE 3" ST CONNECTION TO EXISTING 6" ST DROP IN CHASE.

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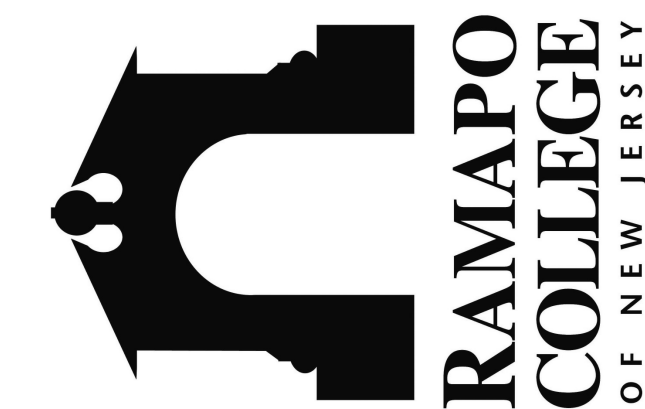
ENGINEER:



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PLUMBING GROUND FLOOR
PLAN



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DESCRIPTION:
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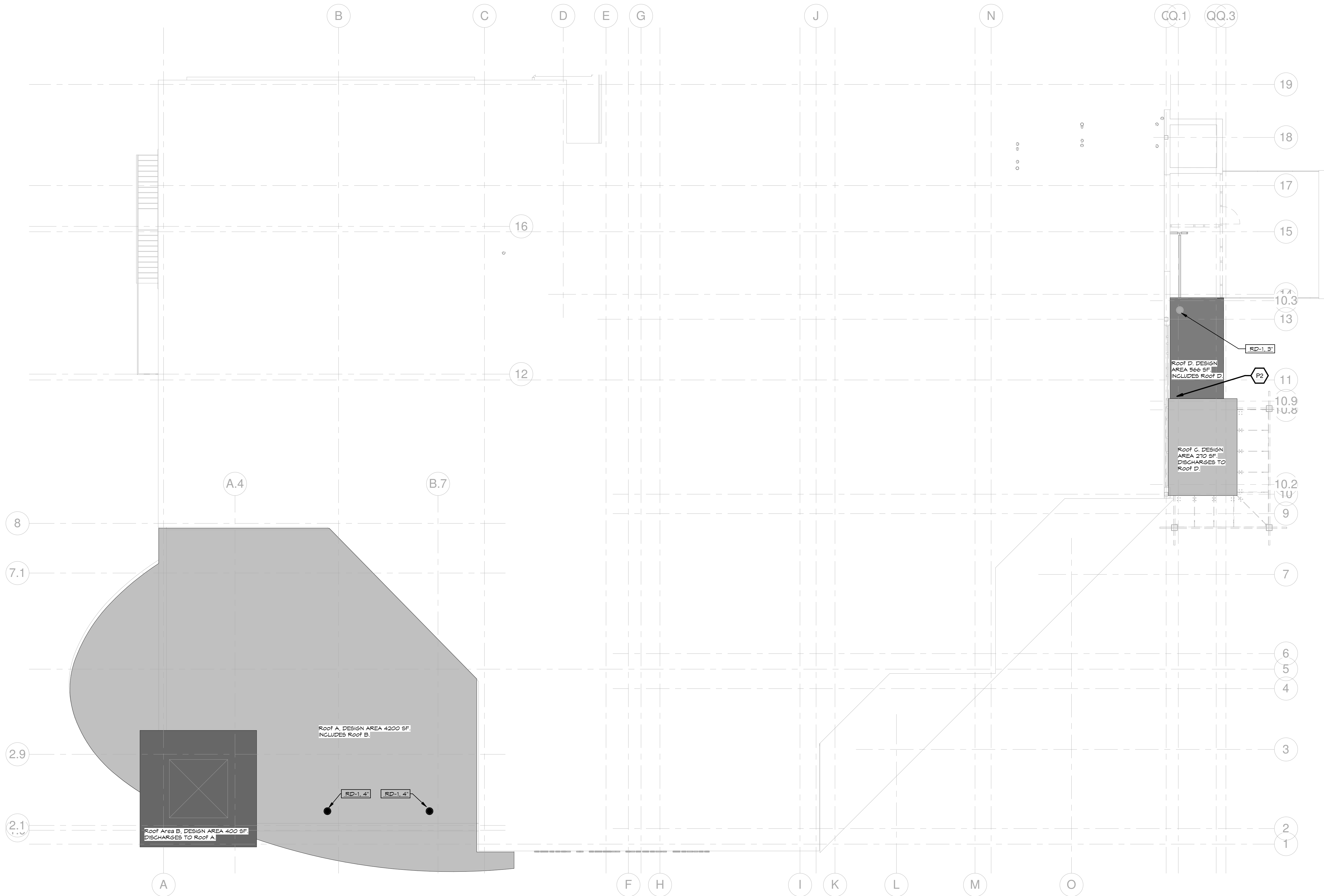
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RAMAPO COLLEGE
OF NEW JERSEY

3/23/2016 10:51:59 AM



1 PARTIAL ROOF PLAN
1/8" = 1'-0"

ADDITION/ALTERATION

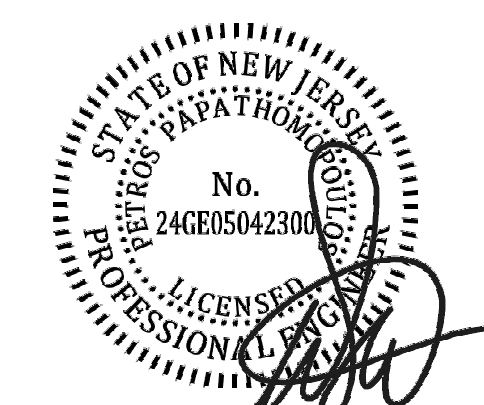
GENERAL NOTES

KEYED NOTES

- P1** NOTE DELETED.
P2 DETAIL OF DRAIN/DOWNPOUT FROM ROOF C TO ROOF D SHOWN ON A-SERIES DRAWINGS.

NJCA ELECTRONIC SUBMITTAL STAMP:

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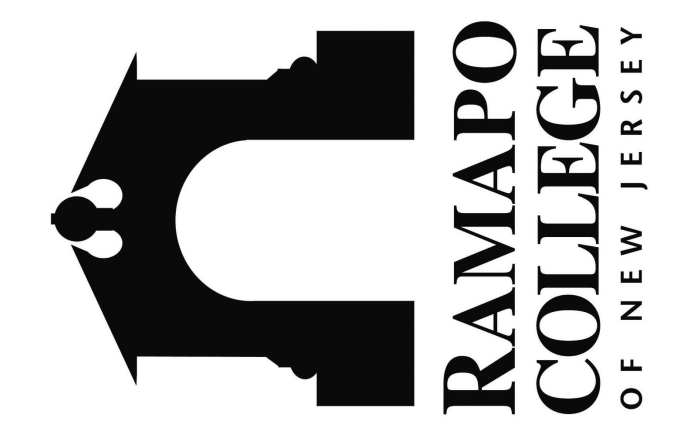


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PLUMBING ROOF PLAN

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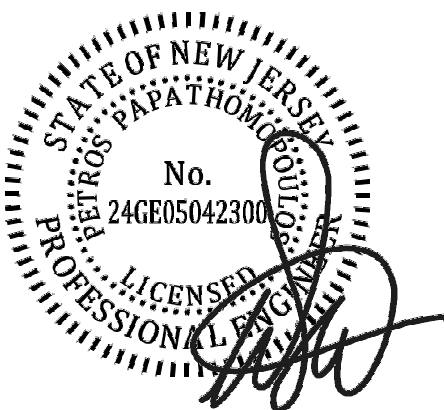
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P-102

ADDITION/ALTERATION

GENERAL NOTES

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PLUMBING ALTERATIONS -
FIRST FLOOR

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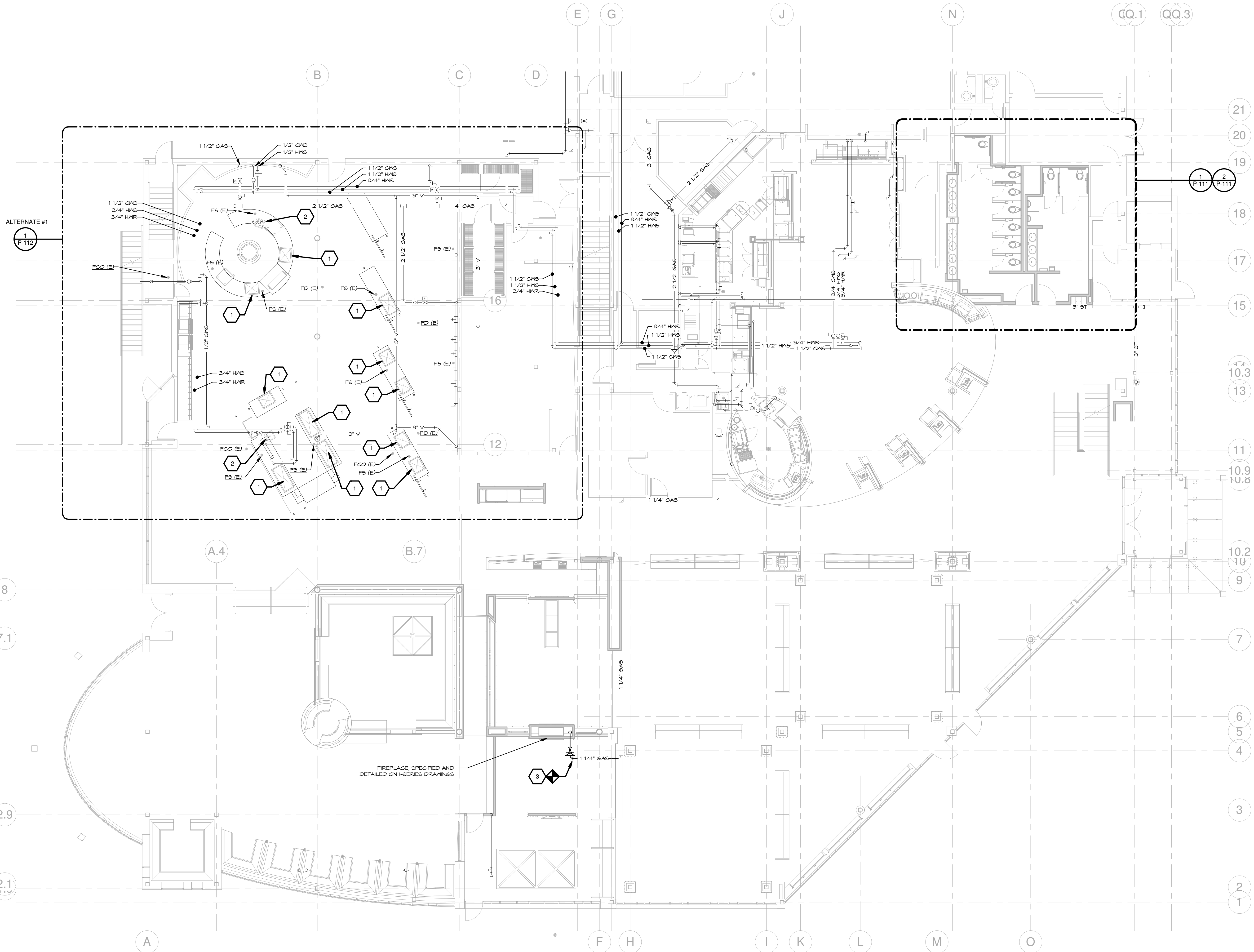
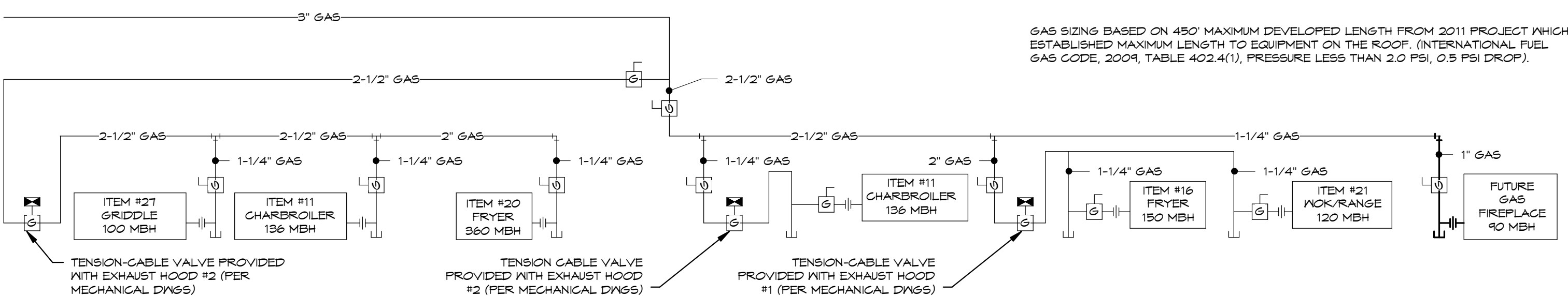
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2 GAS PIPING SCHEMATIC - FIREPLACE

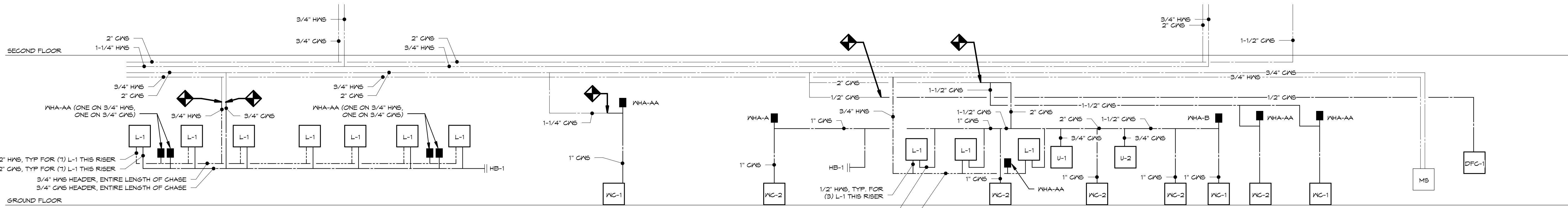
NOT TO SCALE



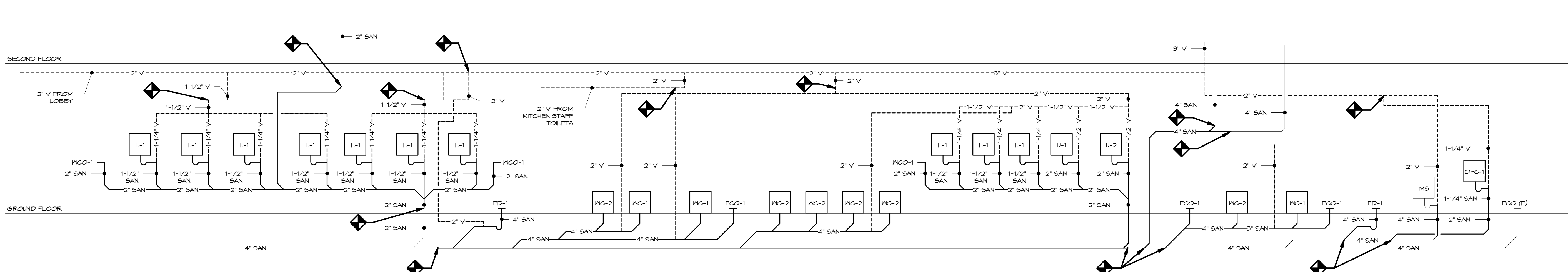
1 PARTIAL GROUND FLOOR RENOVATION

1/8" = 1'-0"





SUPPLY PIPING DIAGRAM



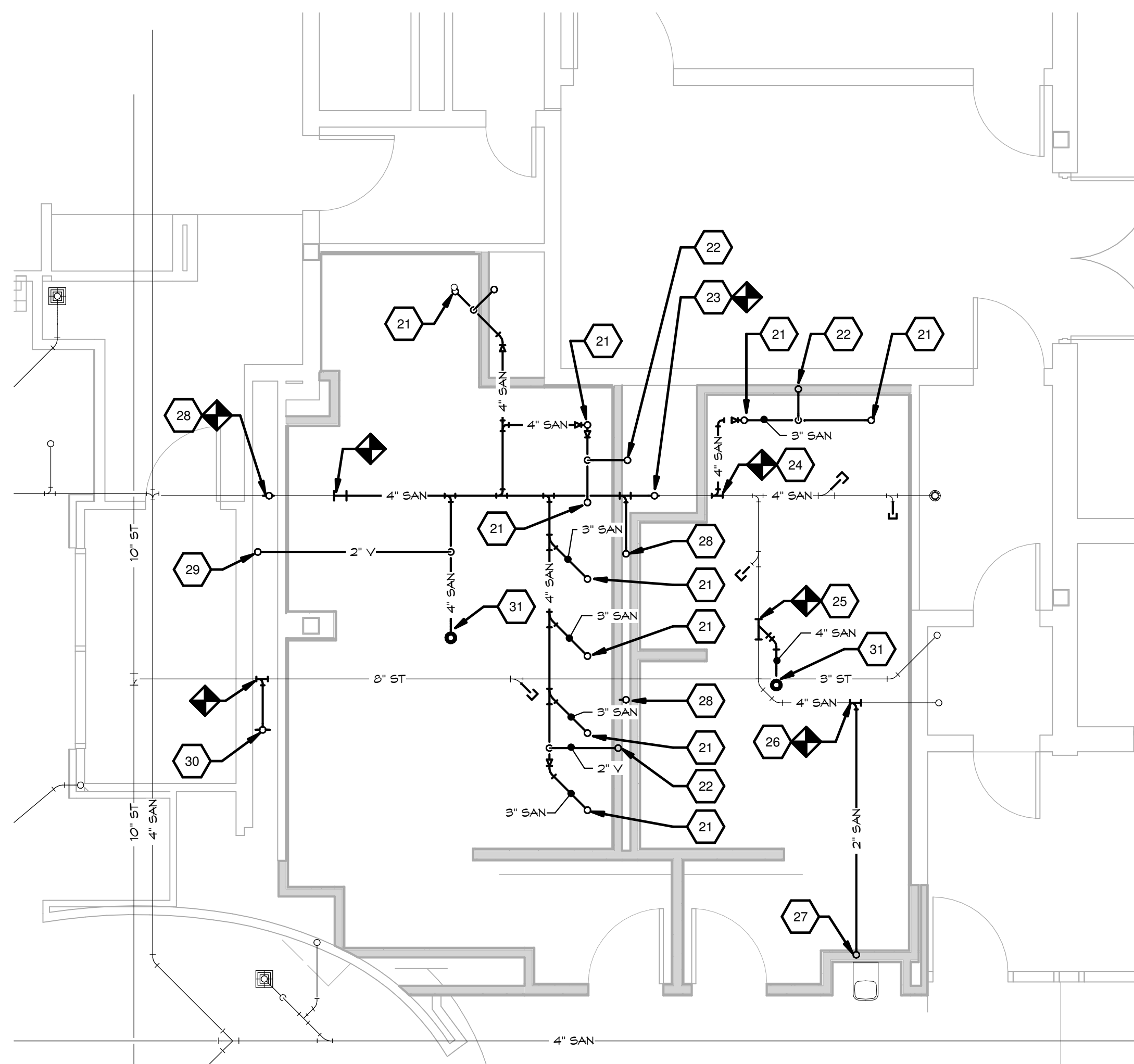
SAN/VENT PIPING DIAGRAM

3 TOILET ROOM RISERS

NOT TO SCALE

KEYED NOTES

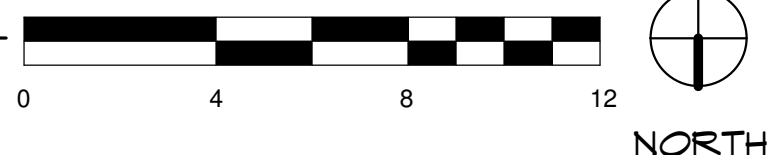
1. PROVIDE 1" CWS DROP IN CHASE TO WATER CLOSET. PROVIDE 2" V DOWN IN CHASE THROUGH FLOOR. CONNECT EACH TO EXISTING PIPING AT CEILING.
2. PROVIDE 2" V DOWN INTO CHASE THROUGH FLOOR.
3. PROVIDE 4" SAN DOWN IN CHASE THROUGH FLOOR.
4. PROVIDE 1" CWS DROP IN WALL TO WATER CLOSET.
5. PROVIDE 2" V DOWN IN WALL THROUGH FLOOR.
6. CONNECT 4" SAN FROM CHASE ABOVE TO NEW 4" SAN AT CEILING.
7. CONNECT NEW VENT LINES TO EXISTING 2" V AT CEILING.
8. CONNECT 4" SAN LATERAL ABOVE CEILING TO NEW 4" LATERAL MAIN.
9. PROVIDE 1/2" CWS AND 1-1/4" V DROPS IN WALL TO DRINKING FOUNTAIN. PROVIDE 1-1/4" SAN DOWN IN WALL, EXPANDING TO 2" SAN AT FLOOR.
10. CONNECT NEW 1/2" CWS TO EXISTING PIPING ABOVE CEILING.
11. CONNECT 3" SAN TO NEW LATERAL ABOVE CEILING.
12. PROVIDE 3/4" HWS BRANCH FROM EXISTING MAIN TO SERVE MEN'S ROOM LAVATORIES.
13. CONNECT 6" ST RISER FROM SECOND FLOOR TO NEW 8" ST LATERAL ABOVE CEILING.
14. CONNECT 2" SAN RISER FROM SECOND FLOOR TO NEW 2" SAN LATERAL ABOVE CEILING.
15. CONNECT 1-1/2" CWS BRANCH TO EXISTING MAIN TO SERVE MEN'S ROOM COLD WATER FIXTURES.
16. CONNECT 2" V FROM CHASE TO EXISTING 3" V ABOVE CEILING.
17. CONNECT 1-1/2" V FROM LAVATORIES NORTH OF COLUMN TO EXISTING 1-1/2" V AT CEILING.
18. PROVIDE 8" ST DOWN IN WALL THROUGH FLOOR. PROVIDE WALL CLEANOUT 12" A.F.F.
19. CONNECT 1-1/2" V FROM LAVATORIES NORTH OF COLUMN TO EXISTING 1-1/2" V AT CEILING. PROVIDE 2" V FROM FLOOR DRAIN UP TO CEILING AND EXTEND TO 2" V MAIN.
20. COMBINE SAN FROM LAVATORIES TO COMMON 2" SAN DROP AND CONNECT TO EXISTING DROP THROUGH FLOOR.
21. PROVIDE 3" SAN UP TO WATER CLOSET.
22. PROVIDE 2" V UP TO THROUGH FLOOR.
23. CONNECT 4" SAN RISER TO EXISTING 4" SAN.
24. CONNECT 4" SAN LATERAL TO EXISTING 4" SAN.
25. CONNECT 4" SAN FROM FLOOR DRAIN TO EXISTING 4" SAN.
26. CONNECT 2" SAN FROM DRINKING FOUNTAIN TO EXISTING 4" SAN.
27. PROVIDE 2" SAN UP THROUGH FLOOR.
28. PROVIDE 2" SAN UP THROUGH FLOOR TO CHASE.
29. PROVIDE 2" V UP TO LAVATORY CHASE.
30. PROVIDE 6" ST UP TO LAVATORY CHASE.
31. PROVIDE 4" P-TRAP CONNECTION TO FLOOR DRAIN AND CONTINUE 4" SAN AS SHOWN.
32. COMBINE SAN FROM LAVATORIES AND URINALS TO COMMON 2" SAN LNL.



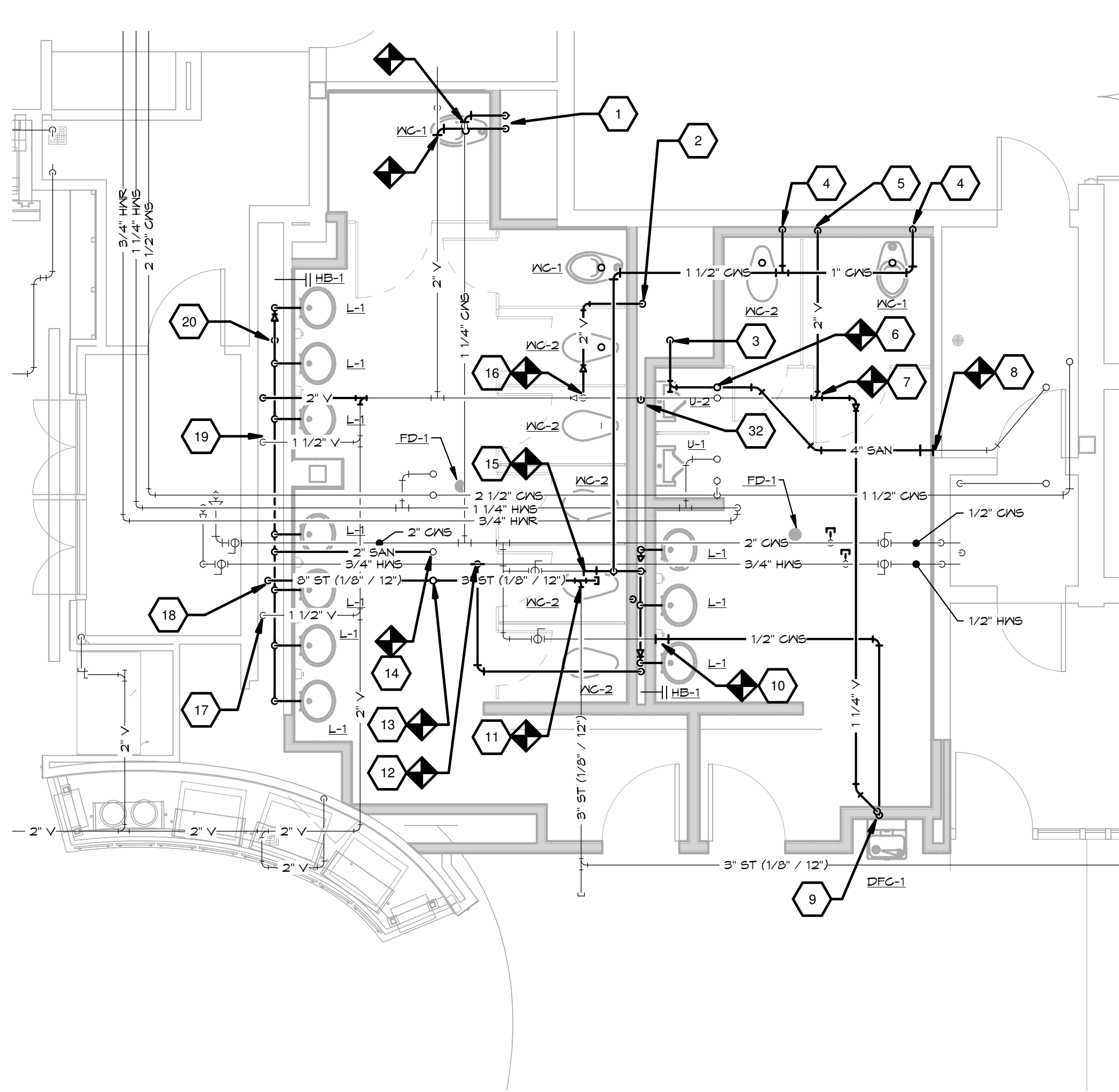
1 ENLARGED TOILET ROOMS - NEW UNDERGROUND

1/4" = 1'-0"

SCALE, IN FEET



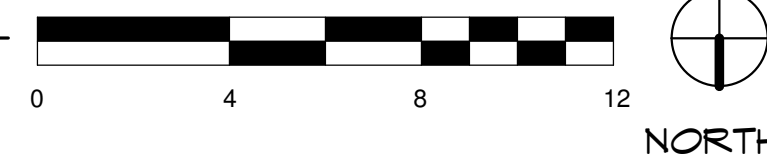
NORTH



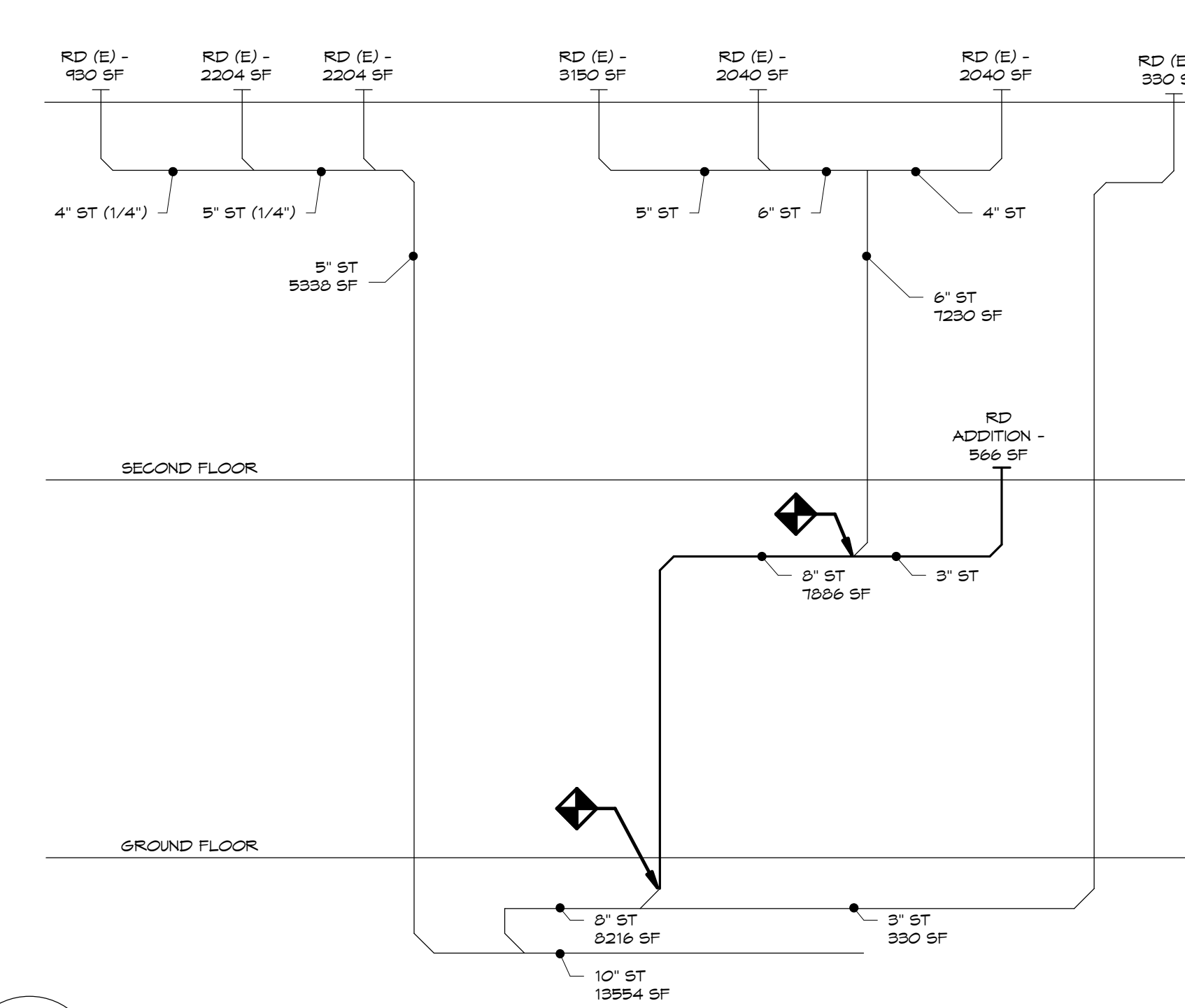
2 ENLARGED TOILET ROOMS PLANS - NEW

1/4" = 1'-0"

SCALE, IN FEET



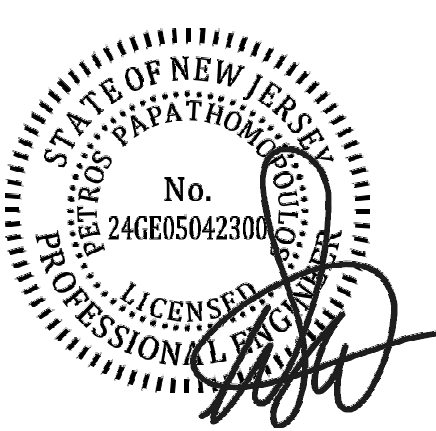
NORTH



4 STORM RISERS - TOILET ROOMS

NOT TO SCALE

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REVISIONS

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PLUMBING ALTERATIONS - TOILET ROOMS



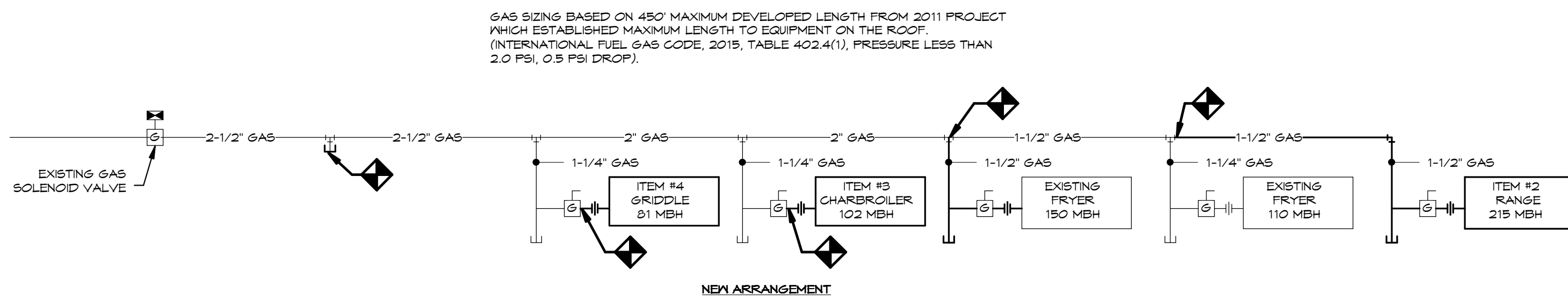
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3.24.2016

DESCRIPTION:
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SHEET:

P-111

RCNJ No. 201437-01/C
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MAHWAH, NJ 07430
18031.00



2 GAS PIPING SCHEMATIC - RESIDENTIAL SERVERY - ALTERATION

NOT TO SCALE

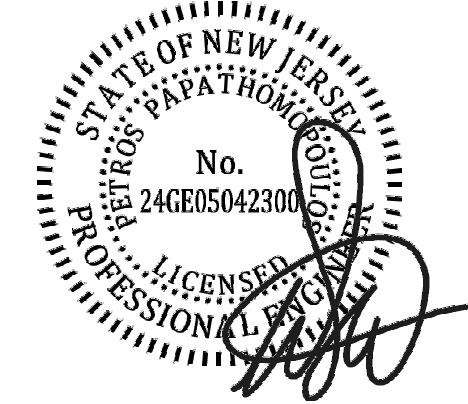
KITCHEN EQUIPMENT SCHEDULE

ItemNo	Quantity	Category	Mfr	Model	Voltage	Phase	Amps	Cycle	Hp	Kw	Connection Type	NEMA	Electrical Connection Height	Cold Water Conn. Height(in)	Hot Water Conn. Height(in)	Indirect Waste Size	Direct Waste Size	Direct Waste Conn. Height(in)	Gas Size(in)	Gas Conn. Height (in)	Gas MBTU
1	1	Sandwich / Solid Preparation Refrigerator	Continental Refrig	SW72-30M-F8	115	1	7.6	60			Cord & Plug	5-15P							3/4"	215.0	
2	1	Range, 36", 6 Open Burners	Vulcan	365-48															3/4"	102.0	
3	1	Charbroiler	Vulcan	VAC836															3/4"	108.0	
4	1	Countertop Griddle	Vulcan	948RX	120	1	1.0	60			Cord & Plug	5-15P									
5	1	Equipment Stand, Refrigerated Base	Vulcan	AR584	115	1	12.0	60	1/2		Cord & Plug	5-15P									
6	1	Carving Station / Shelf	Halco	DC38400-3624-2	120	1	10.83	60		1.3	Cord & Plug	5-15P									
7	1	Fryer	Vulcan	LC300															3/4"	150.0	
8	1	Work Table	Advance Tabco	K55-305																	
9	1	Dual Temp Food Well, Drop-In	Wells	HRCF-7300	115	1	5.6	60	1/3		Direct										
10	1	Drop-In Sink	Advance Tabco	DI-1-2012	208/240	1	14.4/16.7	60		3.8/5.0	Direct										
11	1	Microwave Oven	ACP	RCS10T5	120	1	15	60	1		Cord & Plug	5-15P									
12	1	Conveyor Toaster	Adcraft	CVTF-120	120	1		60		1.7		5-15P									
13	1	Reach-In Freezer	True	STG1F-15	115	1	6.8	60	1/2		Cord & Plug	5-15P									
14	1	Reach-In Refrigerator	True	STG1R-15	115	1	4.8	60	1/3		Cord & Plug	5-15P									
15	1	Heated Shelf Food Warmer	Halco	GRS-72-L	120	1		60		1.45	Cord & Plug	5-15P									
16		Spare Number																			
17	2	Drop-In Hot Well	Wells	SS-10	120	1	3.75	60	0.45		Direct										
18	1	Display Freezer	Entree	OFL-40	115	1	1.0	60	1/8		Cord & Plug	5-15P									
19	1	Dipper Well	Allpoints	56-1462																	
20	1	L-Shaped Work Table	Advance Tabco	KTMS-307																	
21	1		Advance Tabco	TA-11A-2																	
21	4	Decorative Lamp	Halco	DL-775-CL	120	1	2.08	60	25		Direct										
	4		Halco	DL-SWITCH-16AMP	16.0																
22	1	Reach-In Undercounter Refrigerator	Beverage Air	UCR60A	115	1	8.2	60	1/4												

EXISTING EQUIPMENT SCHEDULE

DESSERT	
EQ16	EXISTING COLD WELL
GRILL	
EQ3	EXISTING HOT WELL
EQ4	EXISTING HOT WELL
EQ6	EXISTING FRYER
EQ7	EXISTING CONVECTION OVEN
HOMETOWN	
EQ5	EXISTING HOT WELL
EQ8	EXISTING REFRIGERATOR
EQ9	EXISTING WALL MOUNTED SINK
MEDITERRANEAN	
EQ1	EXISTING HOT WELL
EQ2	EXISTING HOT WELL
PIZZA	
EQ10	EXISTING IMPINGER
EQ11	EXISTING PAN RACK
EQ12	EXISTING PIZZA MAKE TABLE
SALAD	
EQ17	EXISTING COLD WELL
EQ18	EXISTING COLD WELL
SANDWICH	
EQ19	EXISTING COLD WELL
EQ20	EXISTING HAND SINK
WOK	
EQ14	EXISTING HOT WELL
EQ15	EXISTING HOT WELL
EQ21	EXISTING SINK
EQ22	EXISTING UNDERCOUNTER REFRIGERATOR
EQ23	EXISTING UNDERCOUNTER REFRIGERATOR
BREAKFAST	
EQ13	EXISTING HOT WELL

SEALED:



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REVISIONS

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CHECKED BY: MAE/PP

PLUMBING ALTERATIONS - SERVERY - ALTERNATE #1

RCNJ No. 201437-01/C
PHASE 2 : ALTERATIONS
505 RAMAPO VALLEY RD.
MAHWAH, NJ 07430
18031.00

**RAMAPO COLLEGE
OF NEW JERSEY**

ISSUED:
3.24.2016

DESCRIPTION:
BID DOCUMENTS

SHEET:

P-112

ADDITION/ALTERATION

GENERAL NOTES

KEYED NOTES

- PROVIDE 1-1/2" INDIRECT WASTE PIPING FROM ITEM EQ-13 TO FLOOR SINK (FS-1, 3") INSTALLED BELOW CABINET. PROVIDE 3" P-TRAP AND EXTEND 3" SAN TO EXISTING VENTED 4" SAN PIPING BELOW FLOOR.
- PROVIDE 1/2" CWS AND 1/2" HWS FROM PIPING AT STRUCTURE ABOVE, DOWN IN WALL AND CONNECT TO ITEM #10. EXTEND 1-1/4" INDIRECT WASTE FROM ITEM #10 TO EXISTING FLOOR SINK BELOW ADJACENT COOKING STATION.
- PROVIDE 1-1/2" INDIRECT WASTE PIPING FROM ITEM EQ-14 TO FLOOR SINK (FS-1, 4") INSTALLED BELOW CABINET. PROVIDE 3" P-TRAP AND EXTEND 4" SAN TO EXISTING VENTED 4" SAN PIPING BELOW FLOOR.
- EXTEND 1/2" CWS FROM ADJACENT SINK TO ITEM #19 INLET. PROVIDE 1-1/2" INDIRECT WASTE FROM ITEM #19 TO FLOOR SINK BENEATH EXISTING COOKING STATION.
- SEE GAS PIPING SCHEMATICS ON THIS SHEET FOR PIPING MODIFICATIONS TO EQUIPMENT BELOW EXHAUST HOOD.
- CONNECT ITEM #8 TO EXISTING SUPPLY AND DRAIN PIPING IN WALL SERVING PREVIOUS HAND SINK.
- CONNECT ITEM #20 TO EXISTING SUPPLY PIPING IN WALL SERVING PREVIOUS SINK. EXTEND 1-1/2" INDIRECT WASTE (QTY 2) TO EXISTING FLOOR SINK BELOW COUNTER.

1 SERVERY - RENOVATION - ALTERNATE

1/4" = 1'-0"

SCALE, IN FEET

