

PLUMBING ABBREVIATIONS	
SYMBOL	DESCRIPTION
AFF	ABOVE FINISH FLOOR
AG	AIR GAP
AP	ACCESS PANEL
ASHRAE	AMERICAN SOCIETY HEATING, REFRIGERATION, AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY MECHANICAL ENGINEERS
BTU	BRITISH THERMAL UNIT
CD	CONDENSATE DRAIN
CI	CAST IRON
CO	CLEANOUT
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
DN	DOWN
DWV	DRAIN WASTE VENT
EL	ELEVATION
EWC	ELECTRIC WATER COOLER
E	EXISTING
F	FAHRENHEIT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FM	FLOW METER
FS	FLOOR SINK
FU	FIXTURE UNITS
GAL	GALLON
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HP	HORSEPOWER
INV	INVERT
IPC	INTERNATIONAL PLUMBING CODE
MA	MEDICAL AIR
MS	MOP SERVICE BASIN
MV	MEDICAL VACUUM
NO2	NITROUS OXIDE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O2	OXYGEN
PG	PRESSURE GAGE
PPM	PARTS PER MILLION
PSI	POUNDS PER SQUARE INCH
RD	ROOF DRAIN
S	SANITARY SEWER
SCFM	STANDARD CUBIC FOOT/MINUTE
SQFT	SQUARE FEET
TEMP	TEMPERATURE
TYP	TYPICAL
V	VENT
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WAGD	WASTE ANESTHESIA GAS DISPOSAL

GENERAL PLUMBING SYMBOLS	
SYMBOL	DESCRIPTION
	DIRECTION OF PIPE PITCH (DOWN)
	DIRECTION OF FLOW
	REDUCER OR INCREASER
	TOP CONNECTION, 45° OR 90°
	BOTTOM CONNECTION, 45° OR 90°
	SIDE CONNECTION
	CAPPED OUTLET
	RISE OR DROP IN PIPE
	UNION
	PIPE UP
	PIPE DOWN
	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
	STRAINER W/ BLOWDOWN VALVE
	THERMOMETER
	PRESSURE GAGE
	FLOW ELEMENT
	PUMP (ARROWHEAD INDICATES FLOW DIRECTION)
	MEDICAL GAS ZONE VALVE (SEE SCHEDULE)
	MEDICAL GAS OUTLET (SEE SCHEDULE)
	MEDICAL GAS ALARM PANEL (SEE SCHEDULE)
	MEDICAL AIR
	MEDICAL VACUUM
	NITROUS OXIDE
	OXYGEN
	WASTE ANESTHESIA GAS DISPOSAL

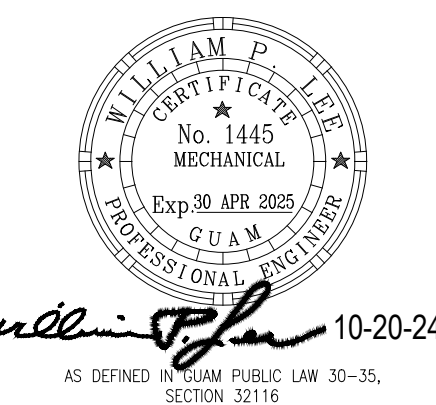
PLUMBING VALVE SYMBOLS	
SYMBOL	DESCRIPTION
	GATE VALVE (GAV)
	BALL VALVE
	GATE VALVE WITH 3/4" HOSE ADAPTER
	CHECK VALVE (SCV)
	ANGLE GLOBE VALVE
	TWO POSITION CONTROL VALVE
	THREE-WAY TWO POSITION CONTROL VALVE
	AUTOMATIC FLOW CONTROL VALVE
	PRESSURE RELIEF VALVE
	MANUAL AIR VENT
	TEST PLUG (PRESSURE/TEMPERATURE)
	CIRCUIT SETTER
	AUTOMATIC AIR VENT

PLUMBING PIPING SYMBOLS	
SYMBOL	DESCRIPTION
	EXISTING WORK
	DEMO WORK
	DOMESTIC COLD WATER, COLD WATER
	DOMESTIC HOT WATER, HOT WATER
	DOMESTIC HOW WATER RETURN, HOT WATER RETURN
	SANITARY SEWER
	VENT
	STORM DRAIN
	OVERFLOW STORM DRAIN
	CONDENSATE DRAIN, SEE MECH DWGS

GENERAL NOTES	
1.	DO NOT SCALE DRAWINGS. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS PRIOR TO BID, FABRICATION AND INSTALLATION OF COMPONENTS.
2.	DRAWINGS ARE DIAGRAMMATIC ONLY. ACTUAL SIZE AND LOCATION OF EQUIPMENT, DUCT WORK AND PIPING MAY VARY DUE TO MANUFACTURER OR FIELD CONDITIONS. COORDINATE INSTALLATION OF MECHANICAL SYSTEMS WITH OTHER TRADES TO PROVIDE ADEQUATE CLEARANCE AND ACCESSIBILITY AS REQUIRED BY MANUFACTURERS.
3.	INSTALLATION SHALL COMPLY WITH THE GOVERNING CODES AND REGULATIONS. INSTALLATION SHALL CONFORM TO THE GUAM TROPICAL ENERGY CODE.
4.	ALL WORK AND MATERIALS SHALL COMPLY WITH GOVERNING CODES, SAFETY ORDERS AND REGULATIONS. ALL WORK SHALL COMPLY WITH THE FACILITY GUIDELINES INSTITUTE GUIDELINES FOR DESIGN AND CONSTRUCTION OF HEALTH CARE FACILITIES 2010 EDITION, NFPA-90A 2009 EDITION & NFPA-99 2005 EDITION.
5.	OBTAIN AND PAY FOR ALL NECESSARY PERMITS, FEES AND INSPECTIONS REQUIRED BY GOVERNING AUTHORITIES.
6.	WORK: FURNISH AND INSTALL ALL LABOR AND MATERIALS REQUIRED FOR A COMPLETE AIR CONDITIONING, VENTILATION AND PLUMBING SYSTEM AS INDICATED ON THE PLANS.
7.	ACCESS PANELS IN HARD CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS.
8.	ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE MOST RECENT REVISION OF THESE PLANS AND SUBMITTALS PRIOR TO CONSTRUCTION. ENGINEER SHALL NOT BE RESPONSIBLE FOR CONTRACTOR FAILURE TO REVIEW AND CLARIFY ANY DISCREPANCIES. SEE ELECTRICAL PLANS FOR POWER AND CONTROL REQUIREMENTS.
9.	OMISSIONS: IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE INSTALLATION. SHOULD THERE BE OMISSIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF SUCH (10) TEN DAYS IN ADVANCE OF THE BID OPENING SO ANY NECESSARY CORRECTIONS CAN BE MADE.
10.	ALL TEMPORARY UTILITY SYSTEM SHUT OFF AND WORK SHALL BE DONE ACCORDING TO THE PHASING PLAN TO AVOID DISCONTINUITY OF SERVICES TO MATERNITY WARD. SEE SHEETS G003 AND G004.
11.	THIS CONTRACT REQUIRES THE PLUMBING, FIRE PROTECTION, EMCS, AND MECHANICAL SUBCONTRACTORS TO CAREFULLY COORDINATE THEIR WORK WITH EACH OTHER. THE GENERAL CONTRACTOR AND OTHER TRADES PRIORITY SHALL BE GIVEN IN THE FOLLOWING ORDER: A. GRAVITY FLOW; SEWER, STORM DRAIN, DOWNSPOUT AND CONDENSATE DRAIN PIPING. B. EQUIPMENT AND DUCTWORK. C. FORCED AND PRESSURE PIPING SUCH AS WATER, FIRE SPRINKLER, AND GAS PIPING.

APPLICABLE CODES & STANDARDS	
•	BUILDING CODE OF GUAM (INTERNATIONAL BUILDING CODE 2009 AS AMENDED)
•	PLUMBING CODE OF GUAM (INTERNATIONAL PLUMBING CODE 2009 AS AMENDED)
•	MECHANICAL CODE OF GUAM (INTERNATIONAL MECHANICAL CODE 2009 AS AMENDED)
•	FIRE CODE OF GUAM (INTERNATIONAL FIRE CODE 2009 AS AMENDED)
•	BUILDING ENERGY CONSERVATION CODE OF GUAM (2017 GUAM TROPICAL ENERGY CODE)
•	FGL, 2010 EDITION, GUIDELINES FOR DESIGN AND CONSTRUCTION OF HEALTH CARE FACILITIES

PLUMBING NOTES	
1.	ALL PLUMBING WORK SHALL CONFORM TO THE INTERNATIONAL PLUMBING CODE, THE CONTRACT DOCUMENTS AND REGULATIONS OF THE GOVERNMENT OF GUAM.
2.	CONTRACTOR SHALL COORDINATE WITH GOVERNMENT AGENCIES AND UTILITIES AS REQUIRED TO COMPLETE THE PROJECT AND SHALL PAY ALL REQUIRED FEES AND PERMITS. CONTRACTOR SHALL COORDINATE WITH G.V.A FOR REQUIRED INSPECTIONS.
3.	PRIOR TO COMMENCING WORK ON THIS PROJECT, VERIFY DEPTH, SIZE, LOCATION AND CONDITION OF ALL EXISTING UTILITIES IN FIELD. SHOULD CONDITIONS EXIST OTHER THAN THOSE INDICATED WHICH WOULD CAUSE THE DESIGN TO BE ALTERED, CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY. CONTRACTOR SHALL VERIFY THE LOCATION OF THE SANITARY SEWER ON THE SITE PLAN AND SHALL REVISE THE SEWER SYSTEM AS REQUIRED.
4.	THIS IS A STANDARD LEGEND SHEET. THEREFORE, NOT ALL OF THE INFORMATION MAY APPLY TO THIS PROJECT.
5.	PIPE SIZE SHOWN ON CONNECTION SCHEDULES ARE INDIVIDUAL FIXTURE REQUIREMENTS. SIZE BRANCH WASTE AND VENT PIPING ON ACCUMULATED FIXTURE WEIGHTS PER APPLICABLE PLUMBING CODE.
6.	PLUMBING DRAWINGS ARE GENERALLY DIAGRAMMATIC. VERIFY FIXTURE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS. VERIFY ROUGH-IN REQUIREMENTS PRIOR TO INSTALLING ANY FIXTURE OR EQUIPMENT SUPPLIED BY OWNER.
7.	COORDINATE INSTALLATION OF PLUMBING WORK WITH ALL OTHER TRADES SO AS TO AVOID UNNECESSARY DELAY OR INTERFERENCES. CONTRACTOR SHALL REVIEW ALL OTHER TRADES DRAWINGS AND CUT SHEETS. INSTALL ALL PLUMBING WORK TO AVOID INTERFERENCE MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING.
8.	NO PIPING SYSTEM SHALL BE BURIED OR CONCEALED UNTIL INSPECTED, TESTED, AND ACCEPTED BY THE OWNER'S ENGINEER. ALL PIPING SHALL BE TESTED FOR LEAKAGE. TEST ALL PIPING PRIOR TO COVERING.
9.	WATER PIPING SHALL BE COPPER ASTM B88, TYPE-K OR FOR BELOW GRADE AND TYPE-L FOR ABOVE GRADE.
10.	MEDICAL GAS PIPING SHALL BE ASTM B819, TYPE-L OR TYPE-K WITH WROUGHT COPPER FITTING AND JOINTS SHALL BE BRAZED WITH AWS A5.8 BCUP BRAZING ALLOY CLEANED, PURGED AND SEALED FOR OXYGEN SERVICE.
11.	INSTALL SHUT-OFF VALVES ON ALL HOT & COLD WATER LINES TO FIXTURE OR APPLIANCE. ALL EXPOSED WATER AND WASTE LINES TO BE CHROME PLATED. PROVIDE SHUT OFF VALVES AT ALL ENVELOPE PENETRATIONS. CONCEAL ALL PIPING INSIDE WALLS AND/OR ABOVE CEILINGS, UNO.
12.	PROVIDE ESCUTCHEON PLATES AND SEALANT AT ALL PIPE PENETRATIONS INTO WALLS, CEILINGS, AND FLOORS. DO NOT USE CAULK OR EXPANDING FOAM FOR SEALANT.
13.	PROVIDE WATER HAMMER ARRESTOR FOR ALL WATER LINES LOCATED AT FIXTURES IN ACCORDANCE WITH THE PLUMBING CODE.
14.	DRAIN WASTE AND VENT PIPING SHALL BE ABS ASTM D2661 OR CAST IRON PIPE ASTM A74 / CIPSI 301.
15.	SOIL AND WASTE PIPE SHALL SLOPE 2% MINIMUM (1/4-INCH PER FOOT), UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
16.	INSTALL FLOOR DRAINS FLUSH WITH FINISHED FLOOR.
17.	INSTALL ALL CLEANOUTS WHERE READILY ACCESSIBLE AND PER CODE. COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC AND THE ARCHITECT PRIOR TO INSTALLATION.
18.	HORIZONTAL BRANCH VENT SHALL BE INSTALLED A MINIMUM OF 6" ABOVE THE MAXIMUM FLOOD LEVEL RIM OF FIXTURE BEING SERVED. WHERE APPLICABLE, BELOW WINDOW OPENINGS.
19.	ALL HORIZONTAL VENTS SHALL BE SLOPED SO AS TO ALLOW MOISTURE TO DRAIN BACK TO WASTE PIPE.
20.	HOSE BIBB SHALL BE INSTALLED 24 INCHES ABOVE THE FINISH FLOOR LINE
21.	PROVIDE AND SECURE DIELECTRIC UNION ON CONNECTIONS BETWEEN COPPER AND METALLIC PIPES. PROVIDE UNIONS AFTER EACH SCREW TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.
22.	ALL VALVES, UNIONS, ETC. SHALL BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.
23.	DO NOT USE LEAD CONTAINING PLUMBING FIXTURES, PIPING OR FLUX. USE LEAD-FREE MATERIALS AND /OR SOLDER FLUX TO ALL POTABLE WATER PIPING SYSTEMS.
24.	ALL WATER LINES SHALL BE FLUSHED PRIOR TO CONNECTING ANY FIXTURES OR EQUIPMENT.
25.	CONTRACTOR SHALL DISINFECT/CHLORINATE ALL POTABLE WATER PIPING SYSTEM PRIOR TO USE OF WATER FOR HUMAN CONSUMPTION OR TO OCCUPY THE BUILDING. DISINFECTION AND CHLORINATION SHALL BE COORDINATED WITH GEPA STAFF. SCHEDULE OF DISINFECTION SHALL BE DONE 4 WORKING DAYS IN ADVANCE. SUBMIT BACTERIOLOGICAL AND LEAD ANALYTICAL TEST RESULTS TO GEPA FOR EVALUATION. CHLORINATION AND DISINFECTION METHOD SHALL COMPLY WITH AWWA C651-86 STANDARD.
26.	ROOF DRAIN AND HORIZONTAL STORM DRAIN PIPING RUNS INSIDE THE BUILDING SHALL BE INSULATED WITH A MINIMUM OF 1" INSULATION TO PREVENT CONDENSATION.
27.	THE CONTRACTOR SHALL CONFIRM THERE IS NO OBJECTIONABLE ODOR OBSERVED IN THE POSITIVE PRESSURE MEDICAL GAS TUBING PRIOR TO ACCEPTANCE FROM THE SUPPLIER.
28.	WAGD SYSTEM PIPING SHALL BE CONNECTED TO THE MEDICAL VACUUM PIPING A MINIMUM OF 5' AWAY FROM ANY VACUUM INLET.
29.	EACH STATION OUTLET FOR MEDICAL GASES SHALL BE GAS-SPECIFIC, WHETHER THE OUTLET IS THREADED OR IS A NON-INTERCHANGEABLE QUICK COUPLER TO PREVENT CROSS CONNECTIONS OF MEDICAL GASES
30.	MEDICAL GAS PIPING SHALL BE INSTALLED, INSPECTED, AND TESTED IN ACCORDANCE WITH NFPA 99, LATEST EDITION.



PERMIT SET

MCH RENOVATION PROJECT, GMHA 007-2014
GMHA FAMILY BIRTH CENTER
 850 GOVERNOR CAMACHO ROAD, OKA, TAMUNING, GUAM 96913
 GUAM MEMORIAL HOSPITAL AUTHORITY
PLUMBING LEGEND, ABBREVIATIONS, NOTES

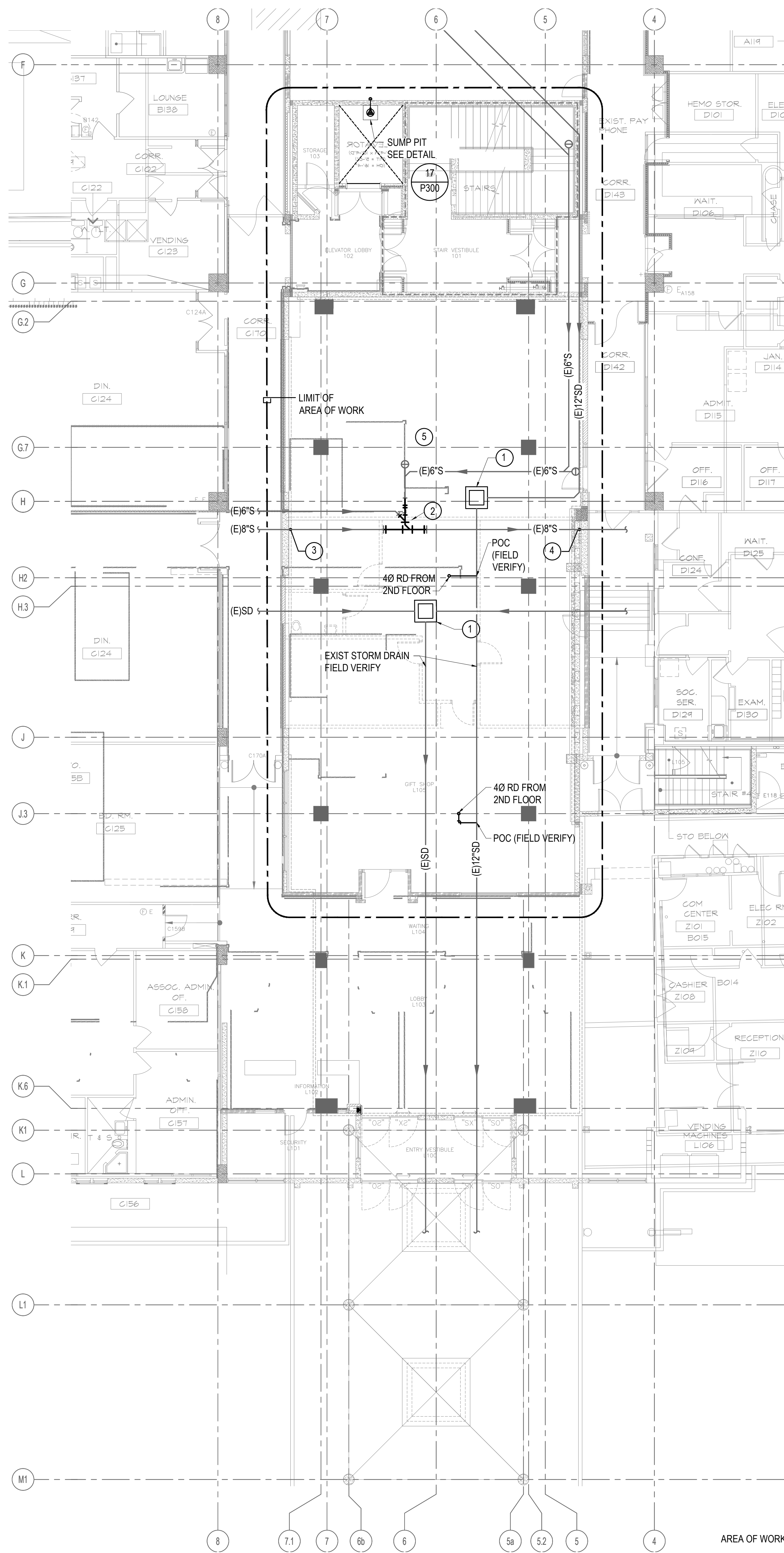
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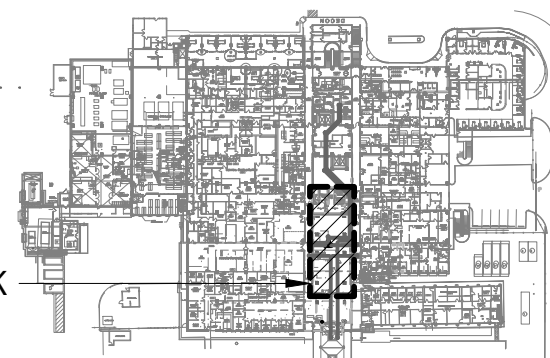
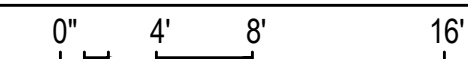
CONSTRUCTION NOTES:

1. EXTEND STORM DRAIN UP TO FLOOR LEVEL AND PROVIDE CONCRETE CAP WITH ASPHALTIC SEAL. SEE 2/C101 FOR DETAIL. PROVIDE 6" FLOOR CLEAN OUT.
2. REMOVE EXISTING MANHOLE AND MAKE CONNECTIONS TO 3 DRAIN LINES. PROVIDE COG.
3. NEW 4" TAP INTO EXISTING DRAIN. ROUTE UP TO SECOND FLOOR AND PROVIDE CLEAN OUT AT FIRST FLOOR FLOOR PER CODE. EXTEND EXISTING CONDENSATE DRAINS ON SOUTH WALL TO INDIRECT DRAIN ABOVE CEILING.
4. NEW 4" TAP INTO EXISTING DRAIN. ROUTE UP TO SECOND FLOOR AND PROVIDE CLEAN OUT AT FIRST FLOOR FLOOR PER CODE. EXTEND EXISTING CONDENSATE DRAINS ON NORTH WALL TO INDIRECT DRAIN ABOVE CEILING.
5. ALL PIPING SHOWN THIS AREA IS BASED ON OLD AS-BUILTS. CONTRACTOR TO FIELD VERIFY AND ADJUST AS REQUIRED FOR COMPLETE SYSTEMS.

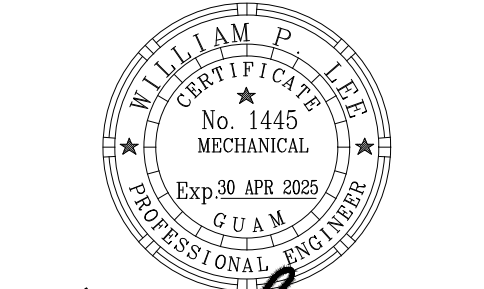


1 PARTIAL FIRST FLOOR PLUMBING PLAN

P101 1/8" = 1'-0"



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10-20-24
AS DEFINED IN THE RULES AND REGULATIONS OF THE BOARD OF PROFESSIONAL ENGINEERS OF THE STATE OF GUAM, SECTION 2316.

PERMIT SET

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 GUAM MEMORIAL HOSPITAL AUTHORITY
 PARTIAL FIRST FLOOR PLUMBING PLAN

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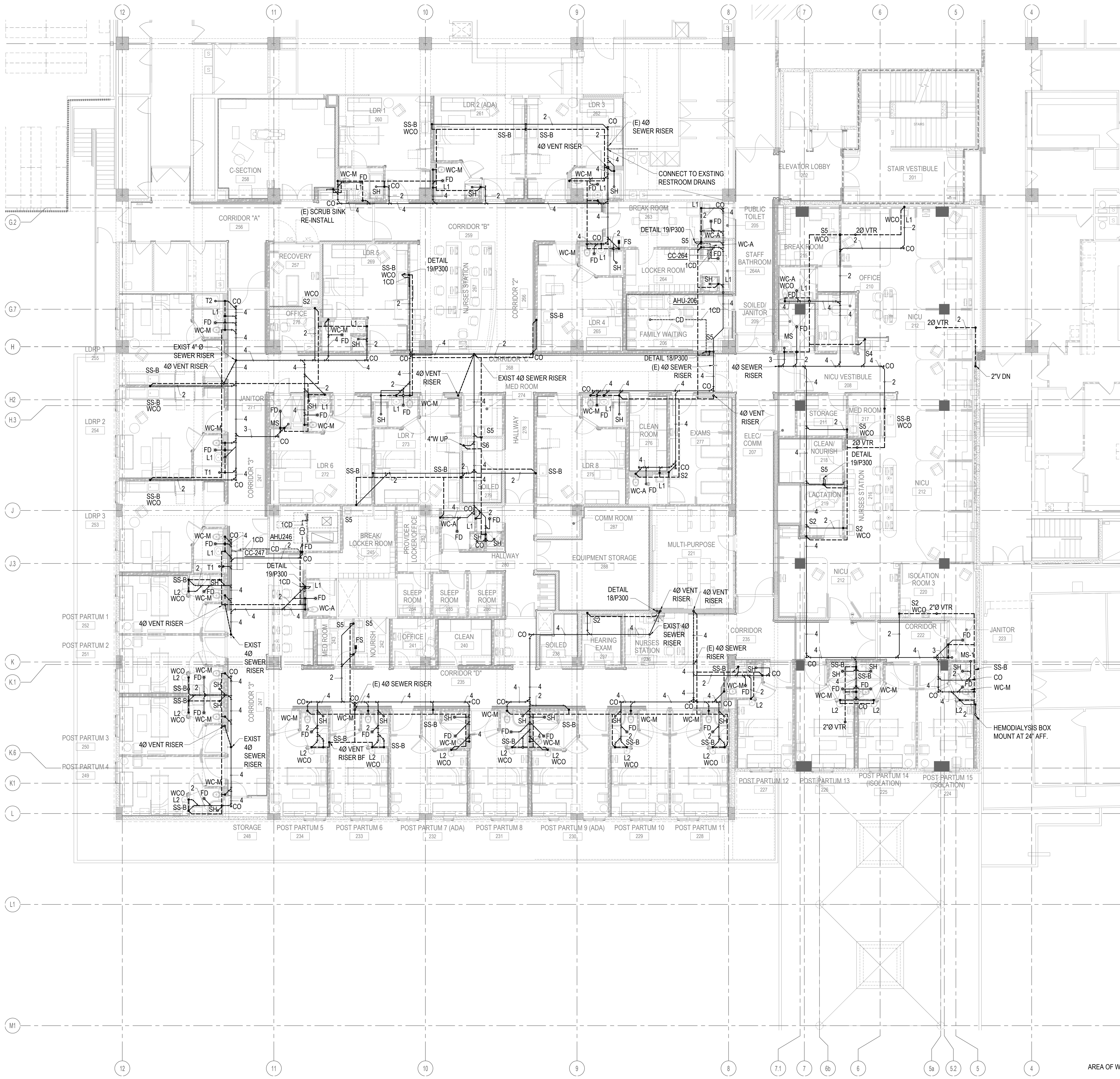
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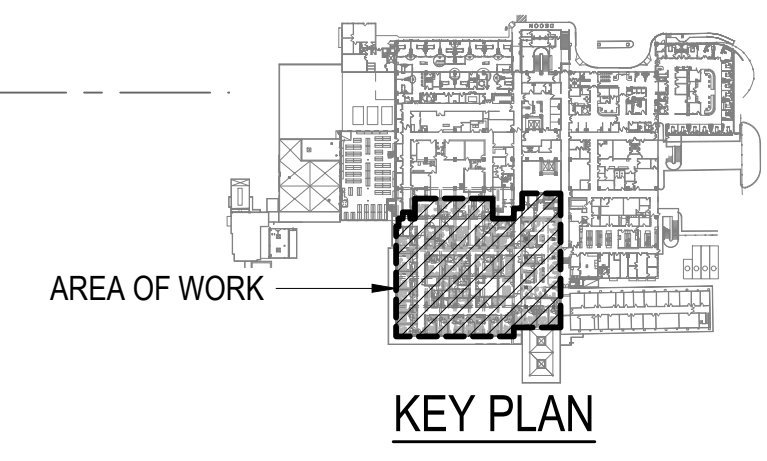
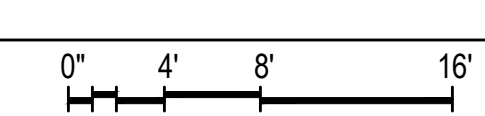
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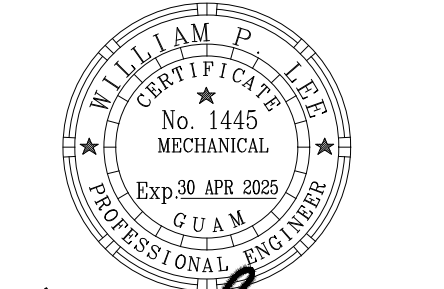
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2. UNLESS OTHERWISE INDICATED, ALL EXISTING SANITARY WASTE AND VENT PIPING SHALL BE DEMOLISHED AND CAPPED WATER & AIR TIGHT BELOW FINISHED FLOOR. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
3. ALL EXISTING PLUMBING FIXTURES TO BE DEMOLISHED UNLESS NOTED OTHERWISE.
4. PATCH AND REPAIR ALL PENETRATION OPENINGS TO MATCH ADJACENT SURFACE AS REQUIRED, COORDINATE WITH GENERAL CONTRACTOR.
5. BACKGROUND SHOWN IS OF THE SECOND FLOOR, SHOWING ROOMS AND FIXTURES BEING SERVED.
6. 1/2" TRAP PRIMER TO FLOOR DRAINS IS NOT SHOWN FOR CLARITY. ALL FLOOR DRAINS REQUIRE 1/2" COLD WATER SUPPLY OR LAVATORY WATER SAVER TRAP PRIMER TO FLOOR DRAIN TRAP PRIMER CONNECTION.



1 PARTIAL SECOND FLOOR SANITARY SEWER PLAN
P202 1/8" = 1'-0"



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 PARTIAL SECOND FLOOR SANITARY SEWER PLAN

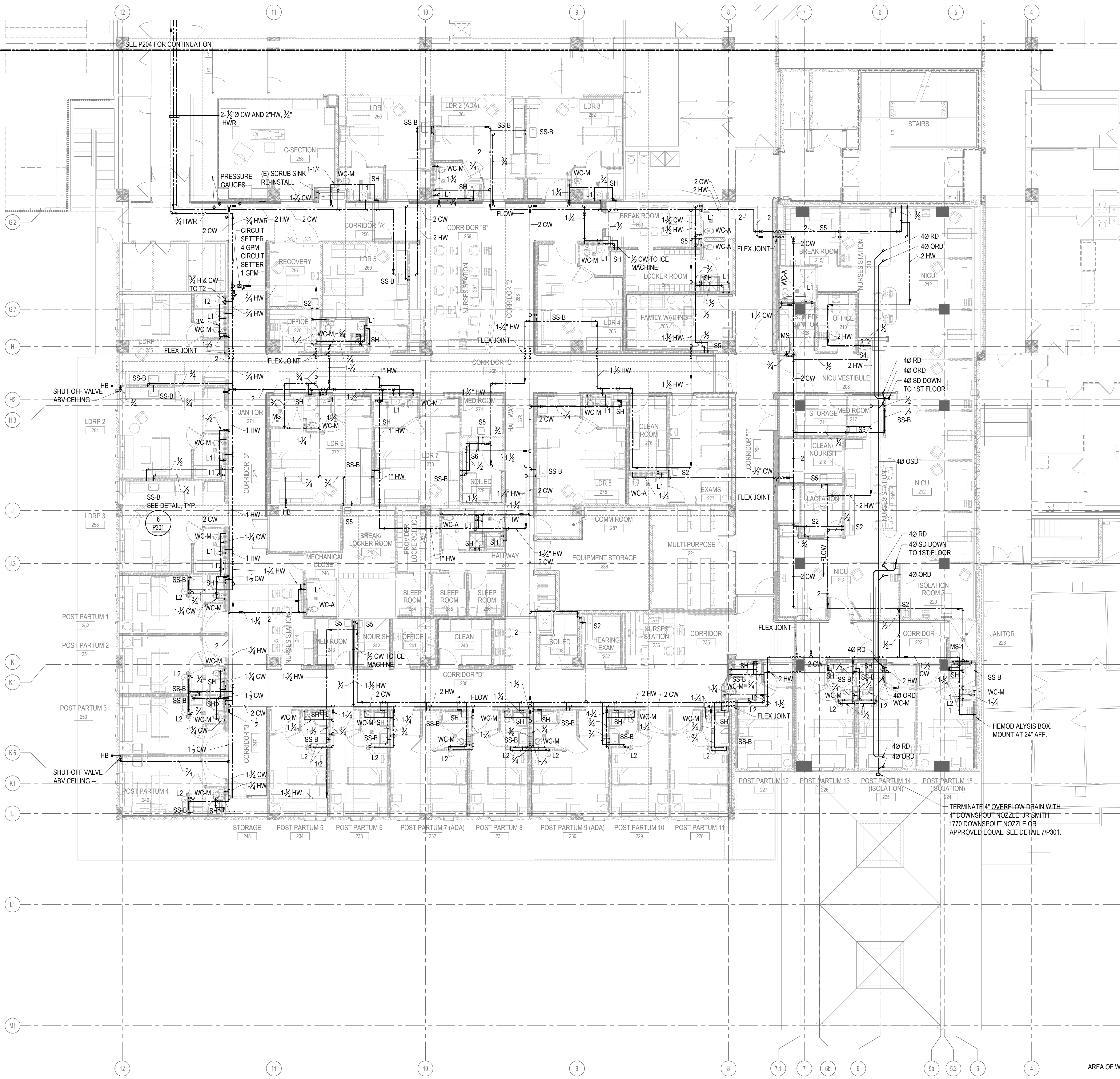
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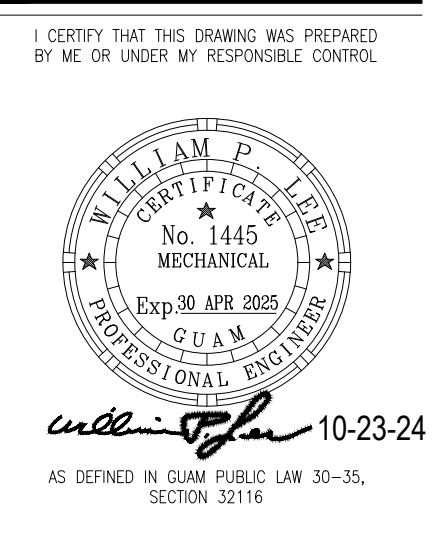
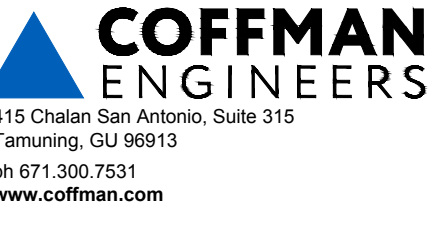
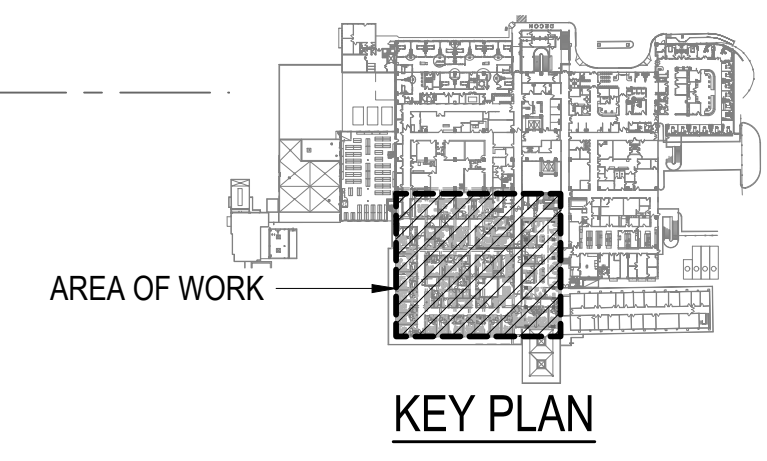
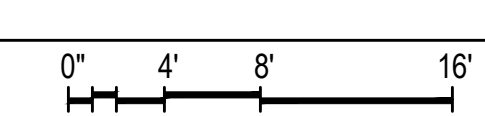
DWG NO: **P202**

CONSTRUCTION NOTES:

1. ALL EXISTING PIPING SHOWN THIS AREA IS BASED ON OLD AS-BUILTS. CONTRACTOR TO FIELD VERIFY AND ADJUST AS REQUIRED FOR COMPLETE SYSTEMS.
2. UNLESS OTHERWISE INDICATED, ALL EXISTING DOMESTIC COLD, HOT, AND HOT WATER RECIRC PIPING SHALL BE DEMOLISHED AND CAPPED WATER & AIR TIGHT. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
3. ALL EXISTING PLUMBING FIXTURES TO BE DEMOLISHED UNLESS NOTED OTHERWISE.
4. PATCH AND REPAIR ALL PENETRATION OPENINGS TO MATCH ADJACENT SURFACE AS REQUIRED, COORDINATE WITH GENERAL CONTRACTOR.
5. BACKGROUND SHOWN IS OF THE SECOND FLOOR, SHOWING ROOMS AND FIXTURES BEING SERVED.
6. 1/2" TRAP PRIMER TO FLOOR DRAINS IS NOT SHOWN FOR CLARITY. ALL FLOOR DRAINS REQUIRE 1/2" COLD WATER SUPPLY OR LAVATORY WATER SAVER TRAP PRIMER TO FLOOR DRAIN TRAP PRIMER CONNECTION.



1 PARTIAL SECOND FLOOR DOMESTIC WATER PLAN
P203 1/8" = 1'-0"



PERMIT SET

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GMHA FAMILY BIRTH CENTER
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 PARTIAL SECOND FLOOR DOMESTIC WATER PLAN

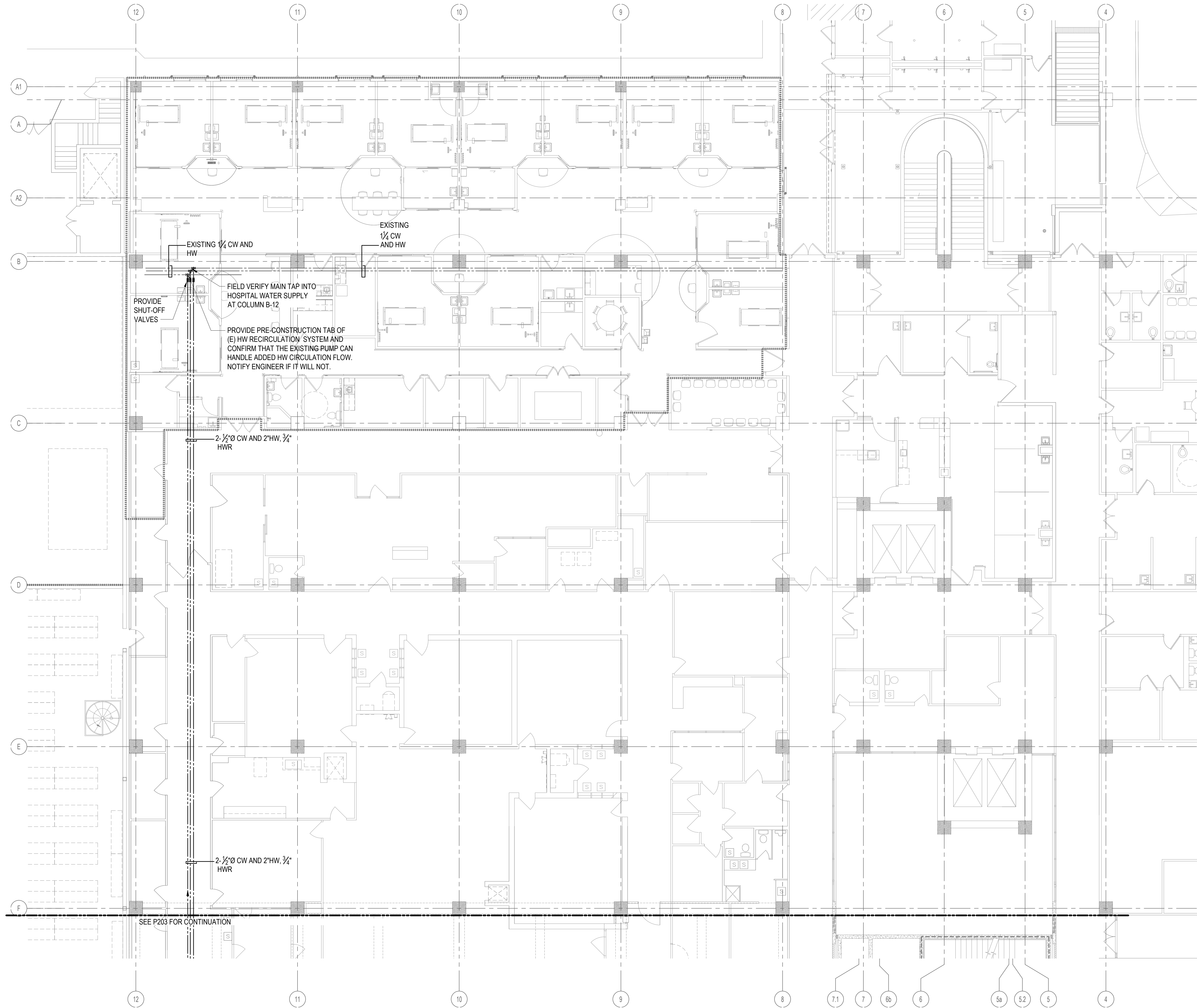
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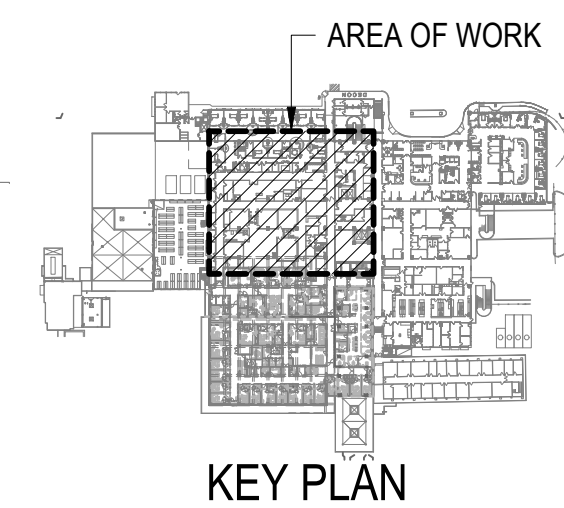
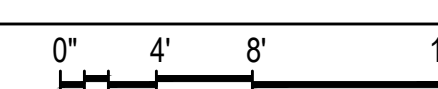
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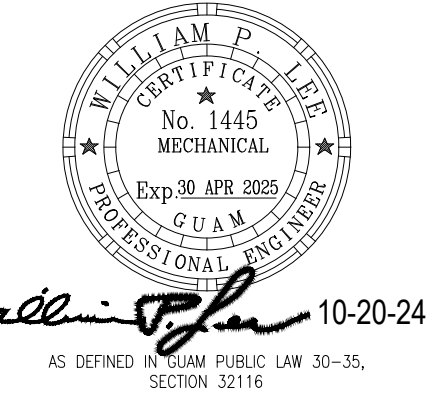
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2. UNLESS OTHERWISE INDICATED, ALL EXISTING SANITARY WASTE AND VENT PIPING SHALL BE DEMOLISHED AND CAPPED WATER & AIR TIGHT BELOW FINISHED FLOOR. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
3. ALL EXISTING PLUMBING FIXTURES TO BE DEMOLISHED UNLESS NOTED OTHERWISE.
4. PATCH AND REPAIR ALL PENETRATION OPENINGS TO MATCH ADJACENT SURFACE AS REQUIRED, COORDINATE WITH GENERAL CONTRACTOR.
5. BACKGROUND SHOWN IS OF THE SECOND FLOOR, SHOWING ROOMS AND FIXTURES BEING SERVED.
6. 1/2" TRAP PRIMER TO FLOOR DRAINS IS NOT SHOWN FOR CLARITY. ALL FLOOR DRAINS REQUIRE 1/2" COLD WATER SUPPLY OR LAVATORY WATER SAVER TRAP PRIMER TO FLOOR DRAIN TRAP PRIMER CONNECTION.



1 PARTIAL SECOND FLOOR DOMESTIC WATER PLAN
P204 1/8" = 1'-0"



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 PARTIAL SECOND FLOOR DOMESTIC WATER PLAN

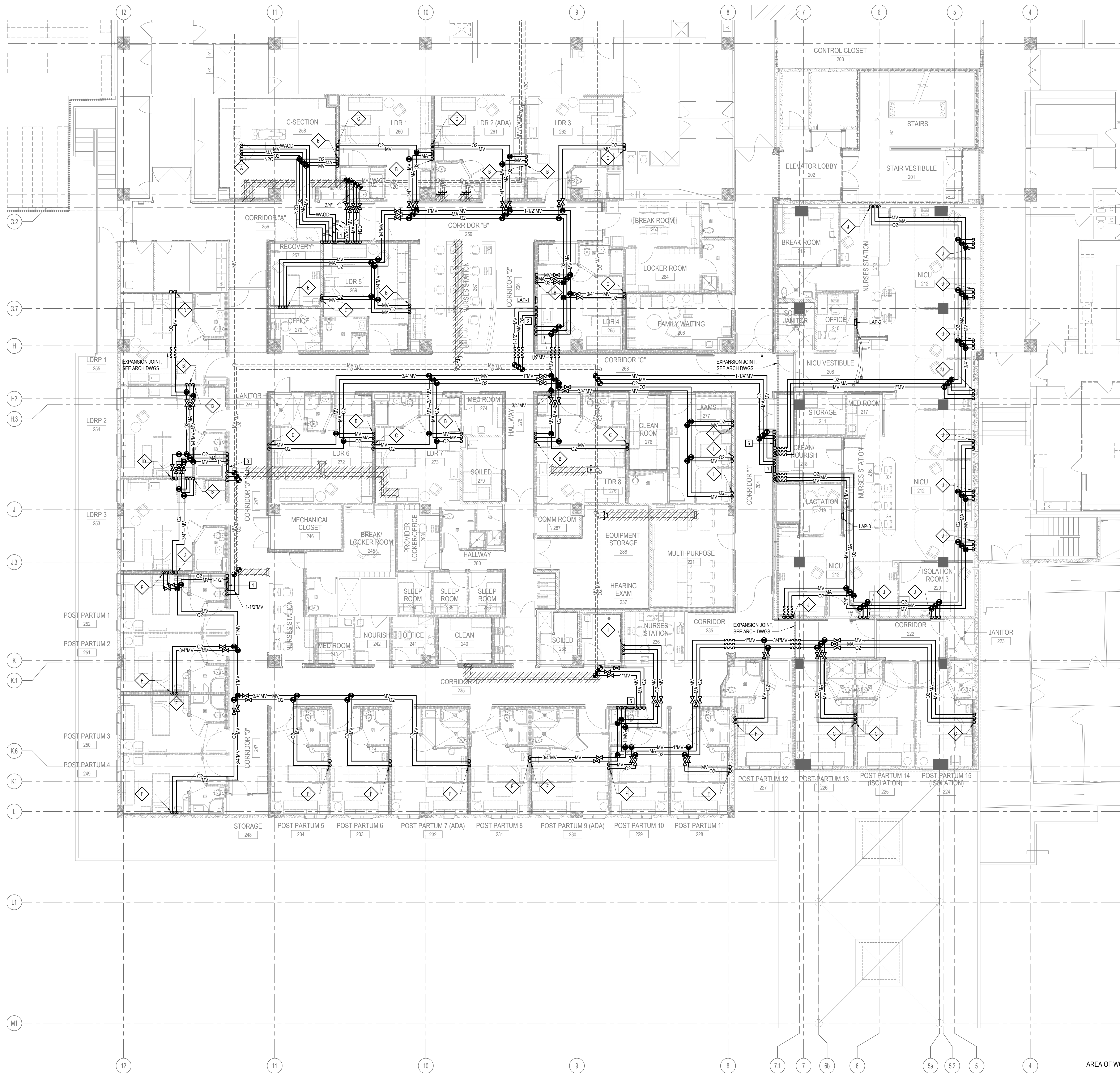
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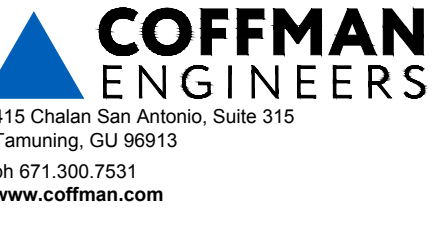
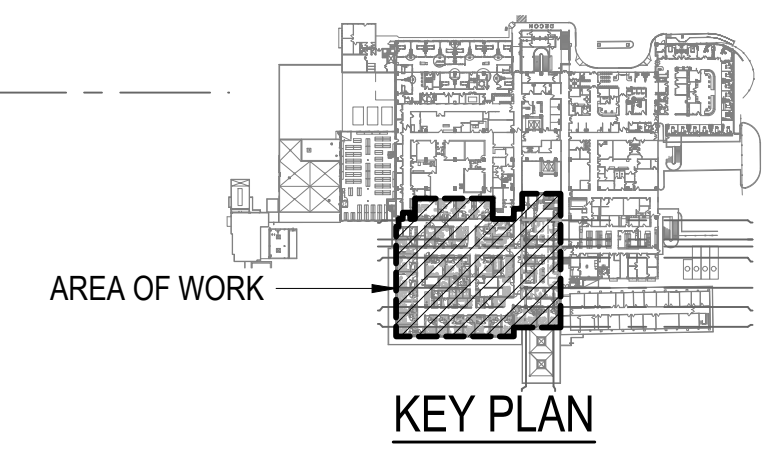
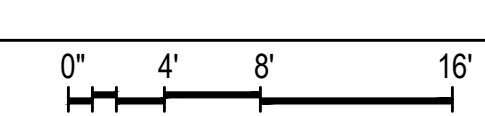
DWG NO: **P204**

CONSTRUCTION NOTES:

1. ALL NEW O₂, N₂O & MA PIPING SHALL BE 1/2".
2. MINIMUM SIZE OF NEW MV AND WAGD PIPING SHALL BE 3/4" UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING O₂, MA, & MV PIPE SIZES PRIOR TO INSTALLING ANY NEW PIPING & SHALL MARK SIZES ON A COPY OF THIS DRAWING FOR EVALUATION BY THE ENGINEER.
4. PROVIDE SEISMIC CONNECTORS IN ALL MEDICAL GAS PIPING CROSSING BUILDING EXPANSION JOINTS TO COMPENSATE UP TO 4" OF MOTION IN THE X, Y OR Z PLANES.



1 PARTIAL SECOND FLOOR MEDICAL GAS PLAN
P212 1/8" = 1'-0"



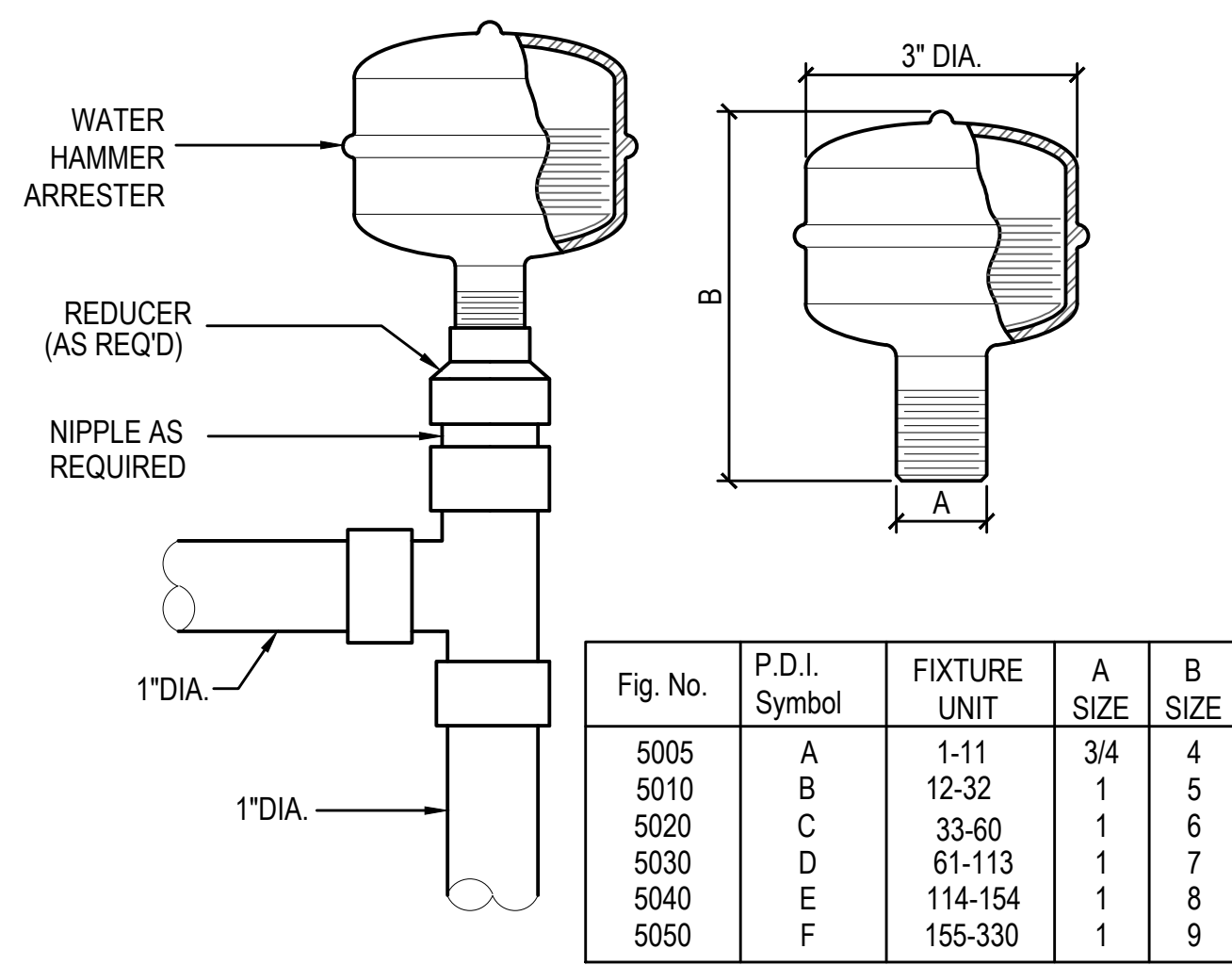
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MCH RENOVATION PROJECT, GMHA 007-2014
GMHA FAMILY BIRTH CENTER
 850 GOVERNOR CAMACHO ROAD, OKA, TAMUNING, GUAM 96813
 GUAM MEMORIAL HOSPITAL AUTHORITY
 PARTIAL SECOND FLOOR MEDICAL GAS PLAN

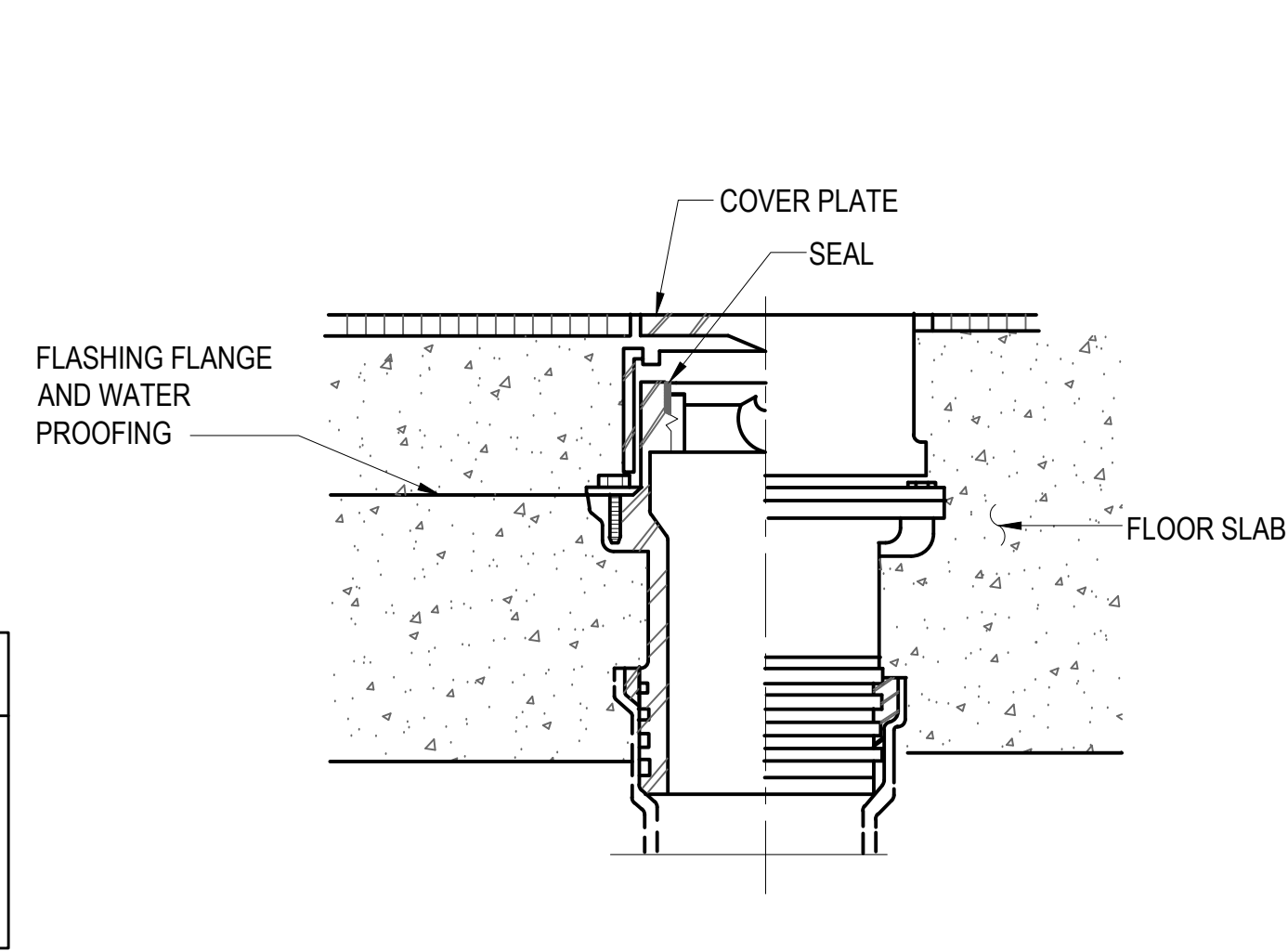
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 OWNER: _____
 SHEET TITLE: _____

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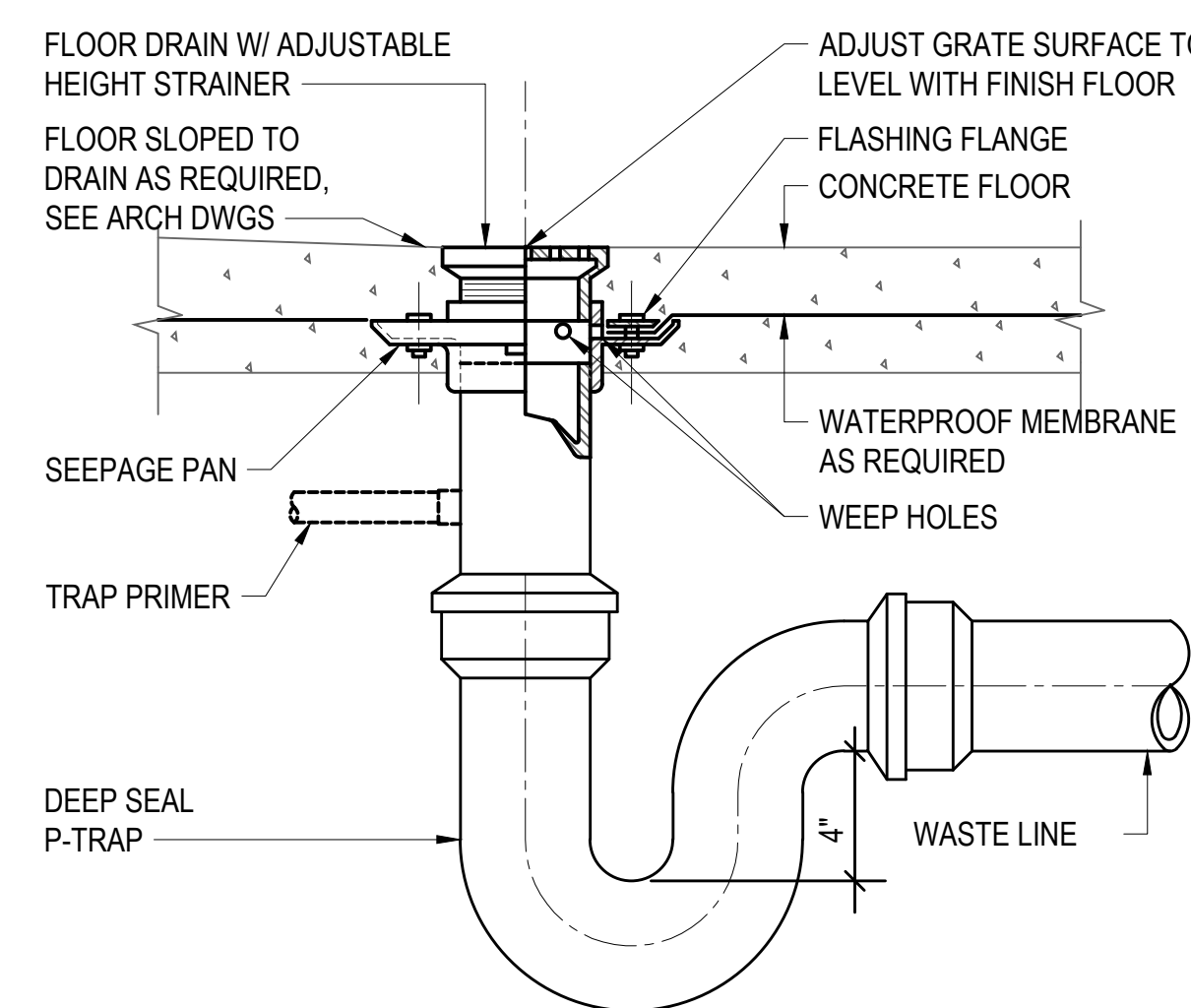
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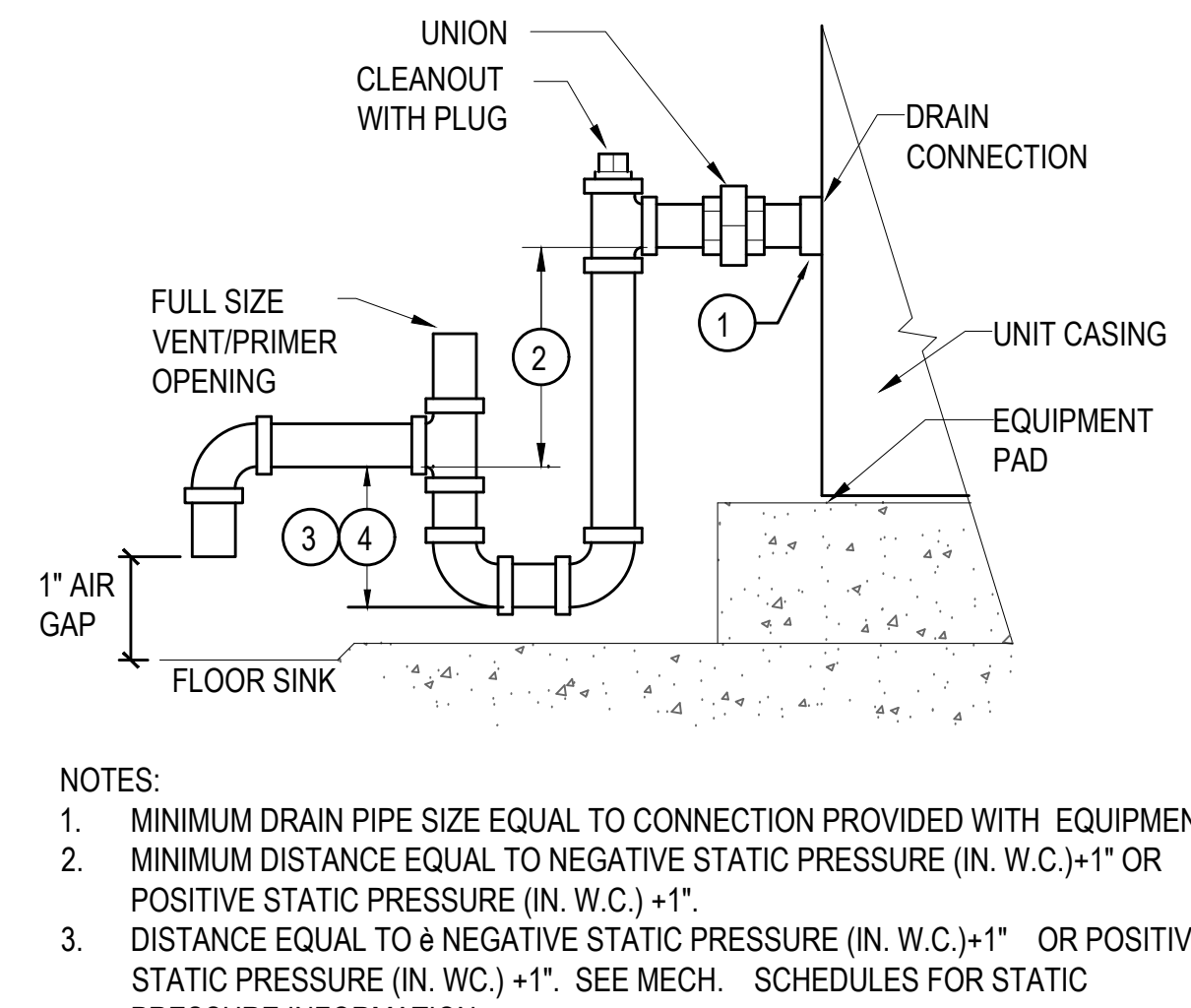
1 WATER HAMMER ARRESTER
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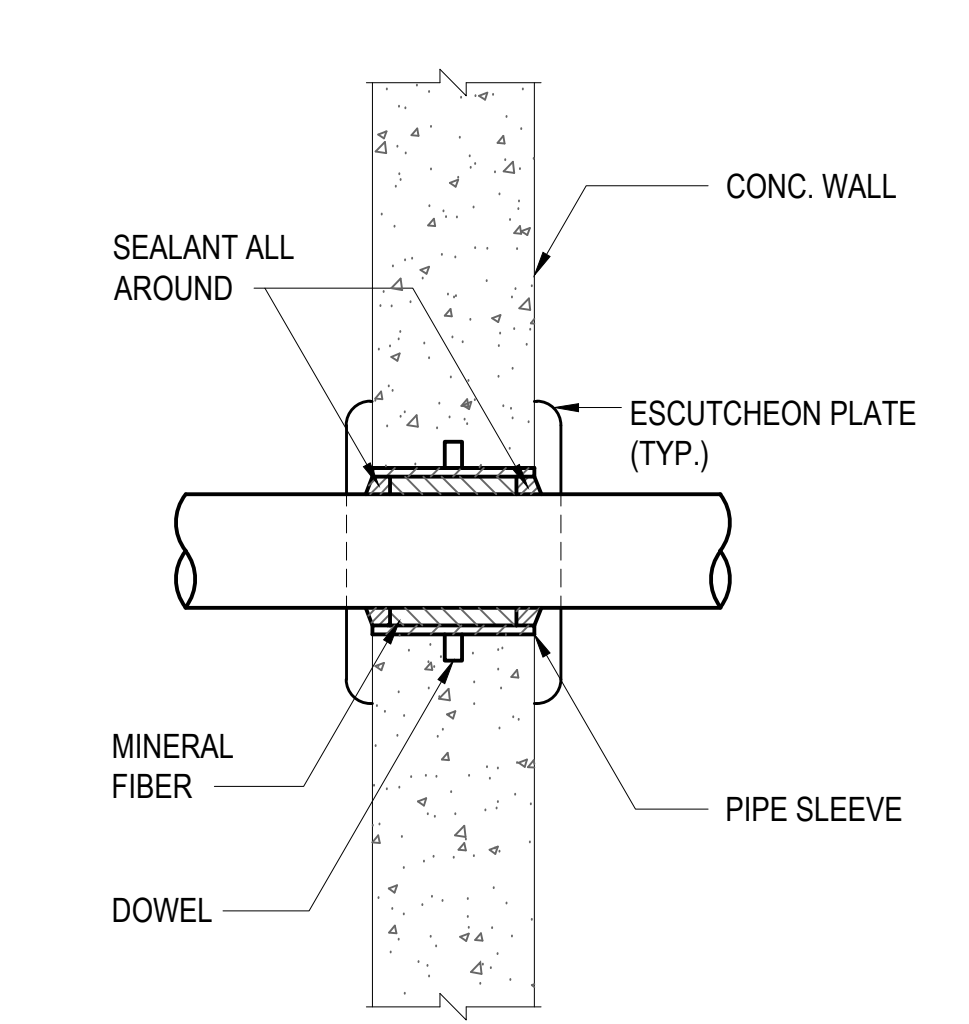
2 FLOOR CLEANOUT DETAIL
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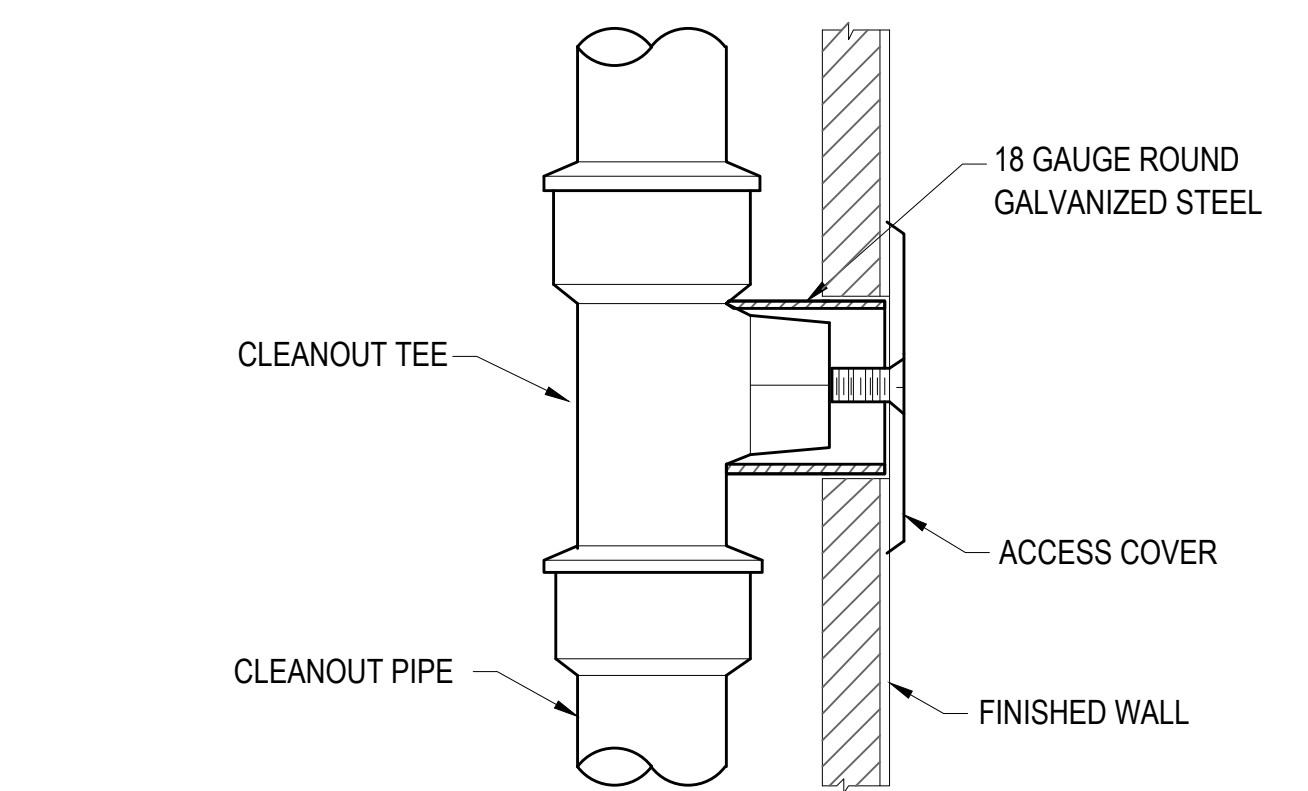
3 FLOOR DRAIN DETAIL
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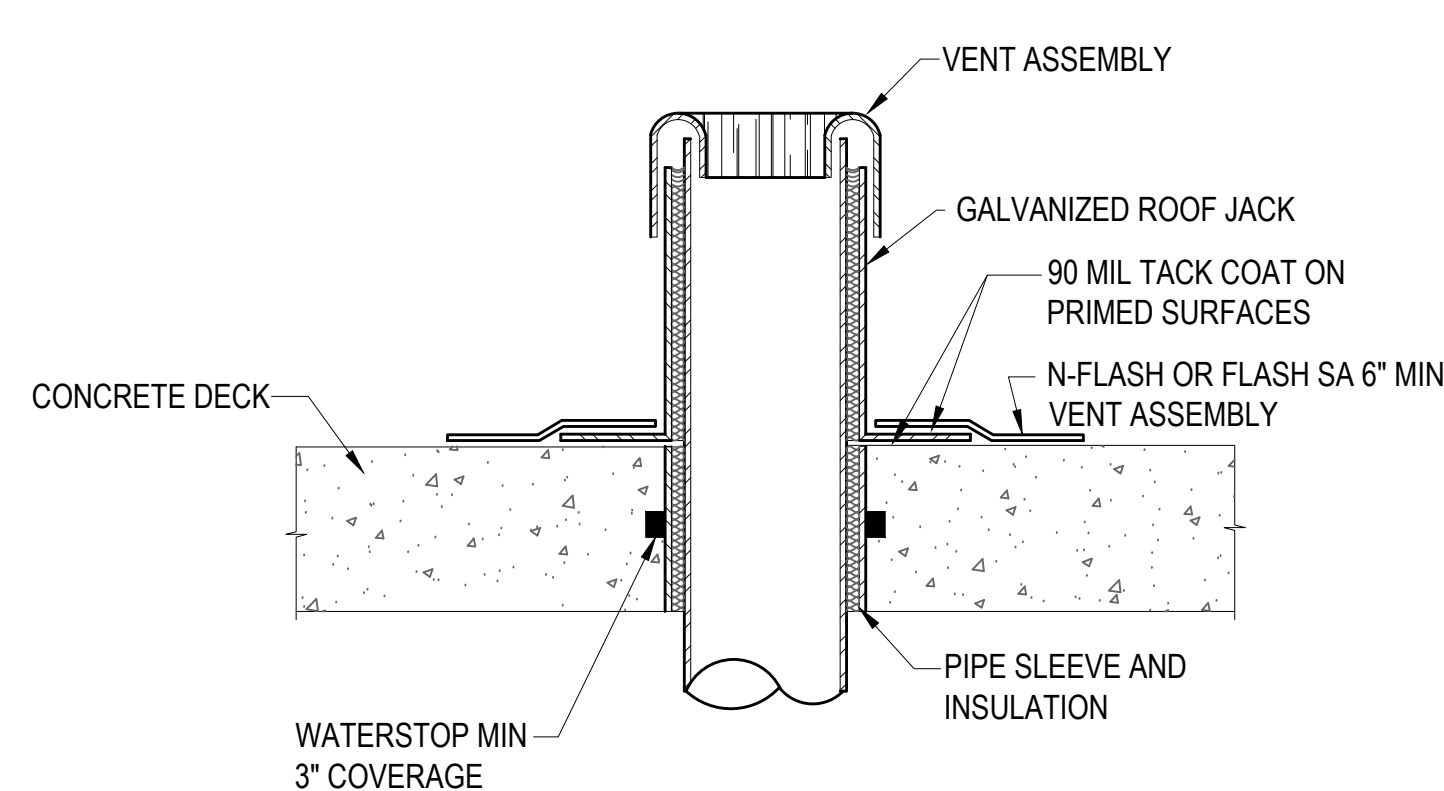
4 PCU CONDENSATE DETAIL
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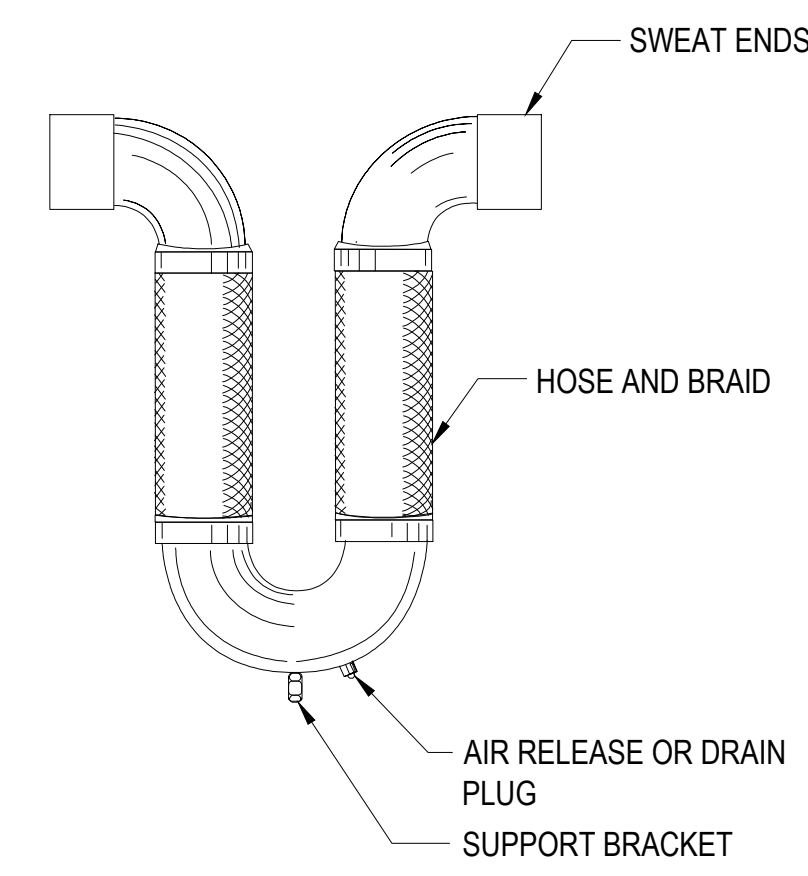
5 PIPE THRU WALL DETAIL
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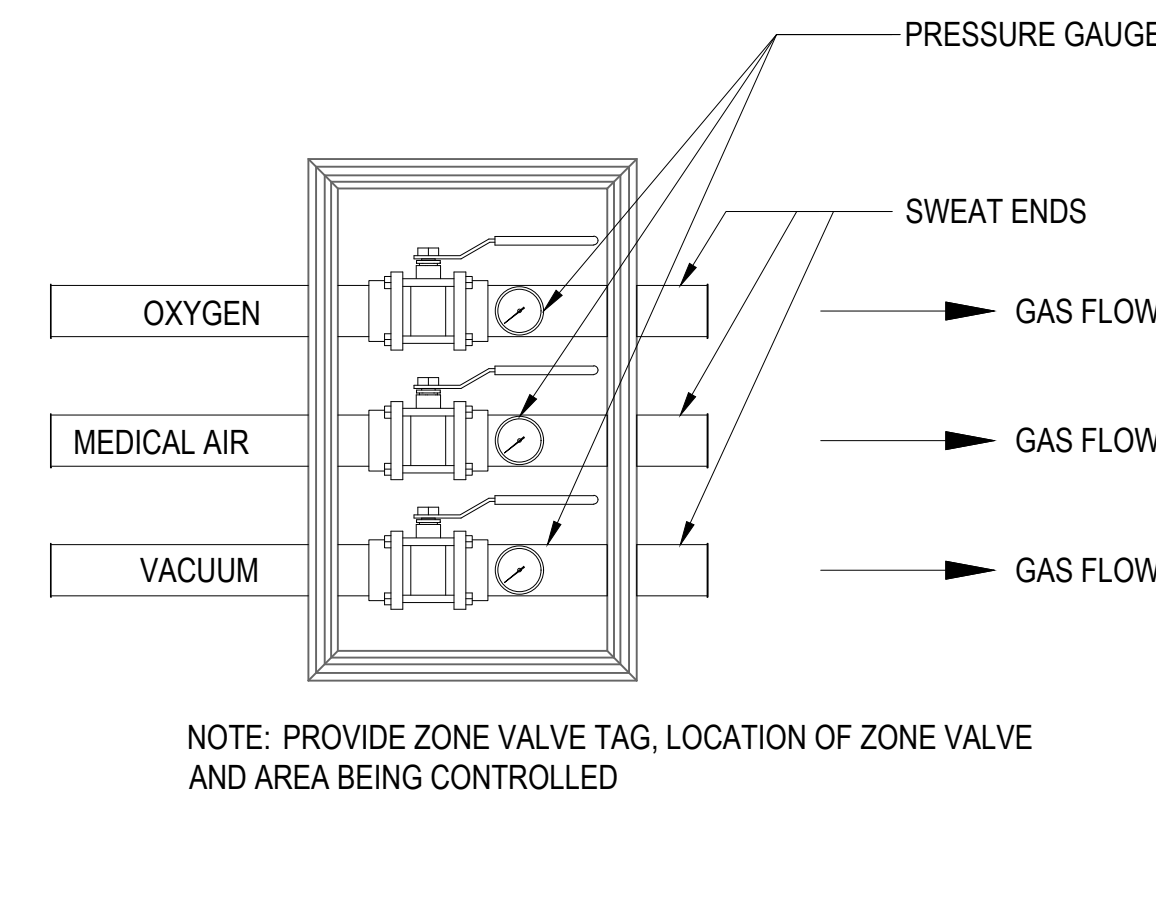
6 WALL CLEANOUT DETAIL
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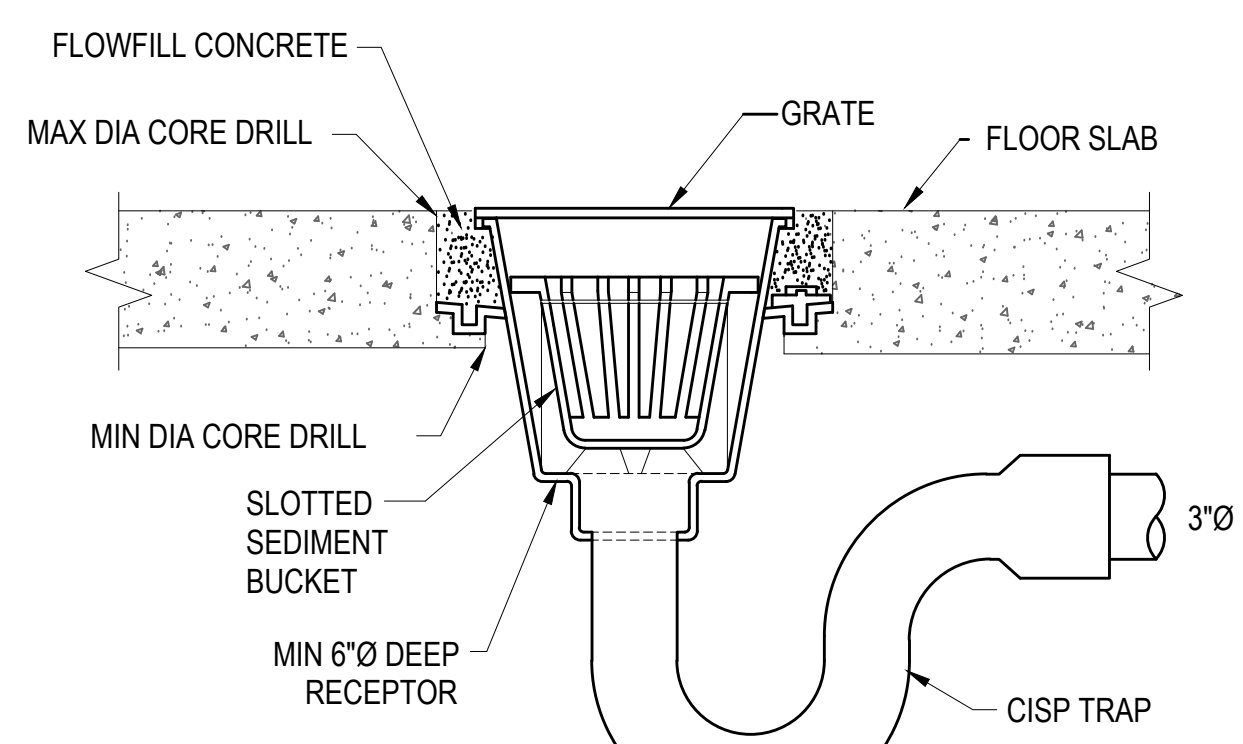
7 VENT THRU CONCRETE ROOF DETAIL
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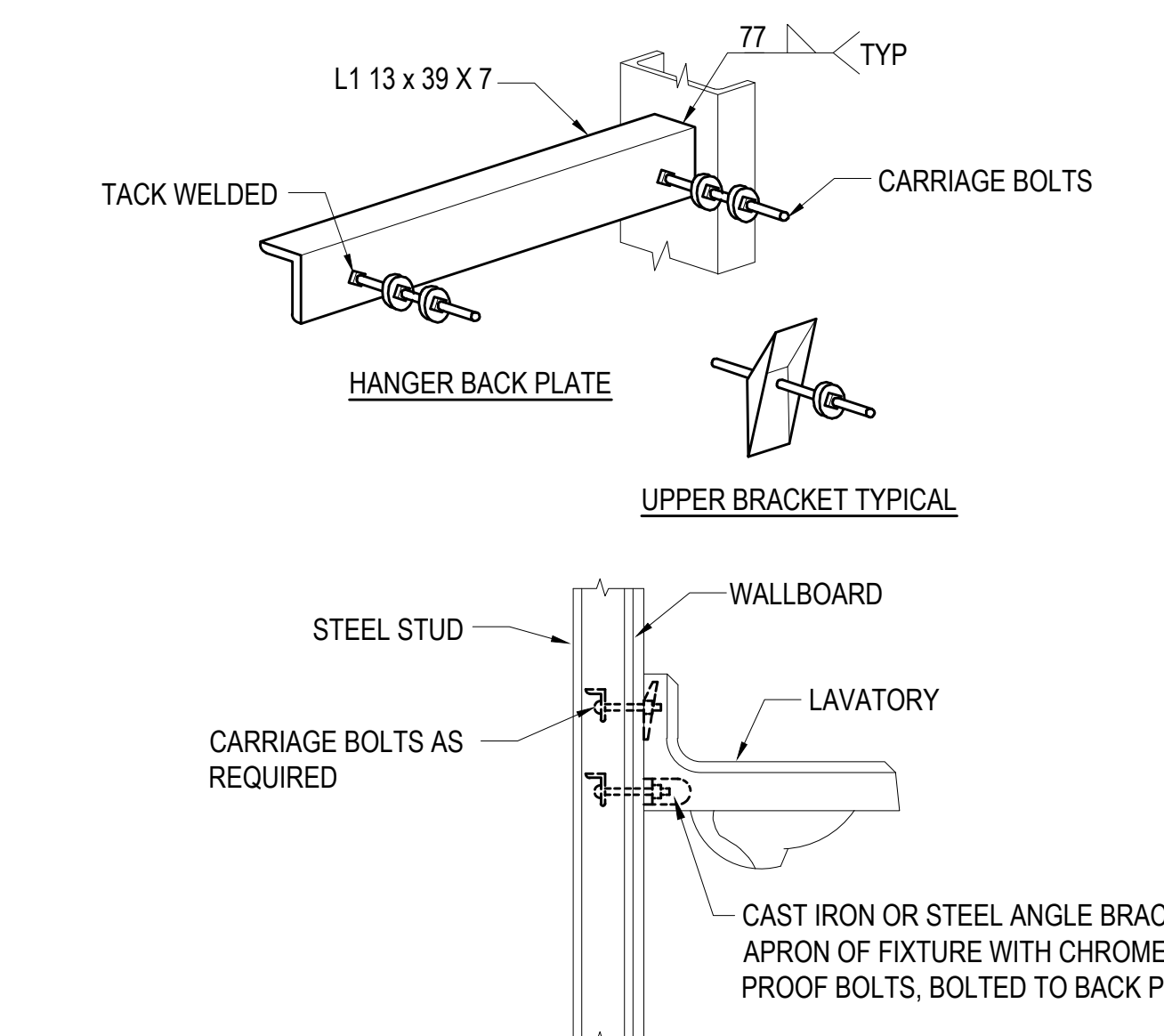
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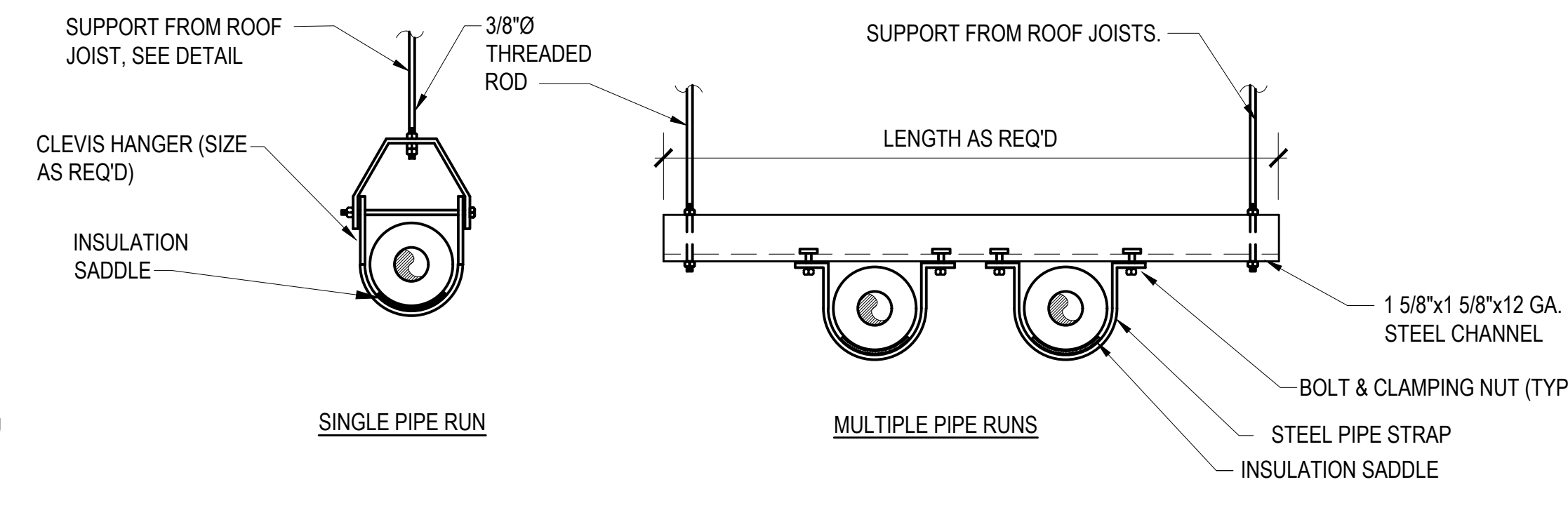
9 ZONE VALVE BOX DETAIL
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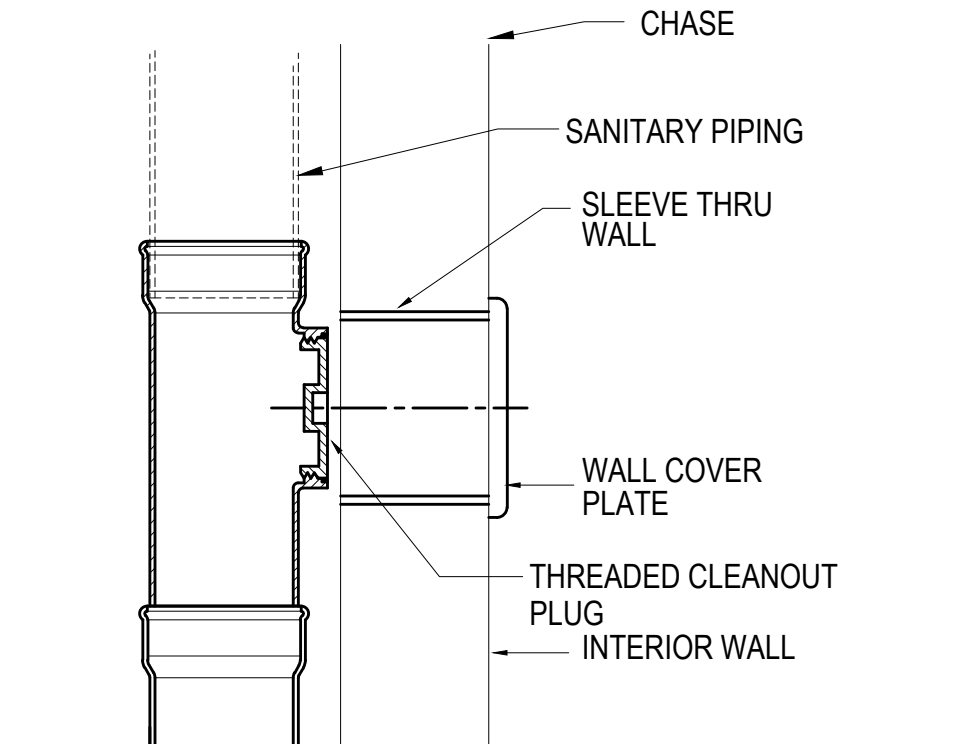
10 PLUMBING DRAIN FLOOR SINK
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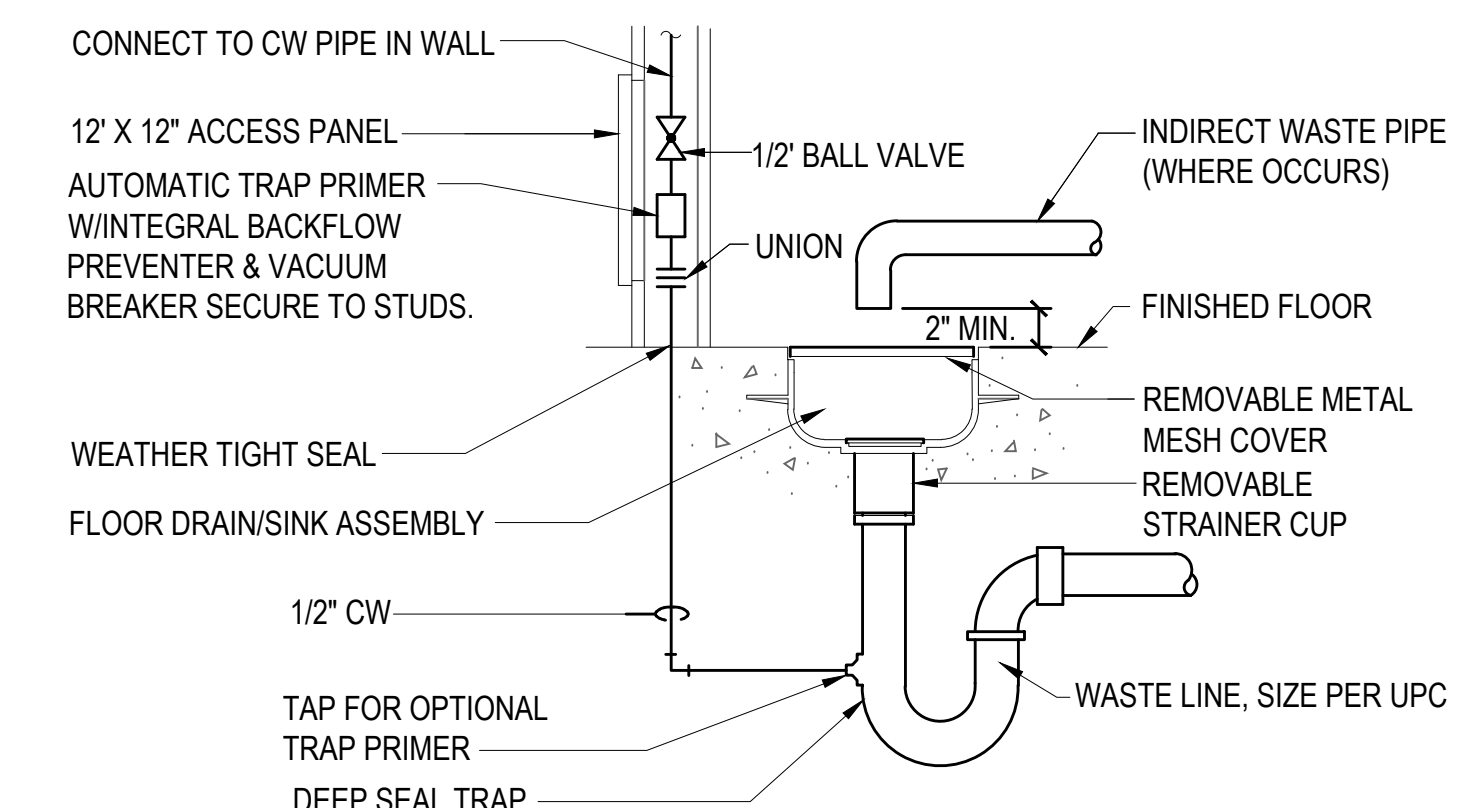
11 LAVATORY MOUNTING FOR METAL STUDS
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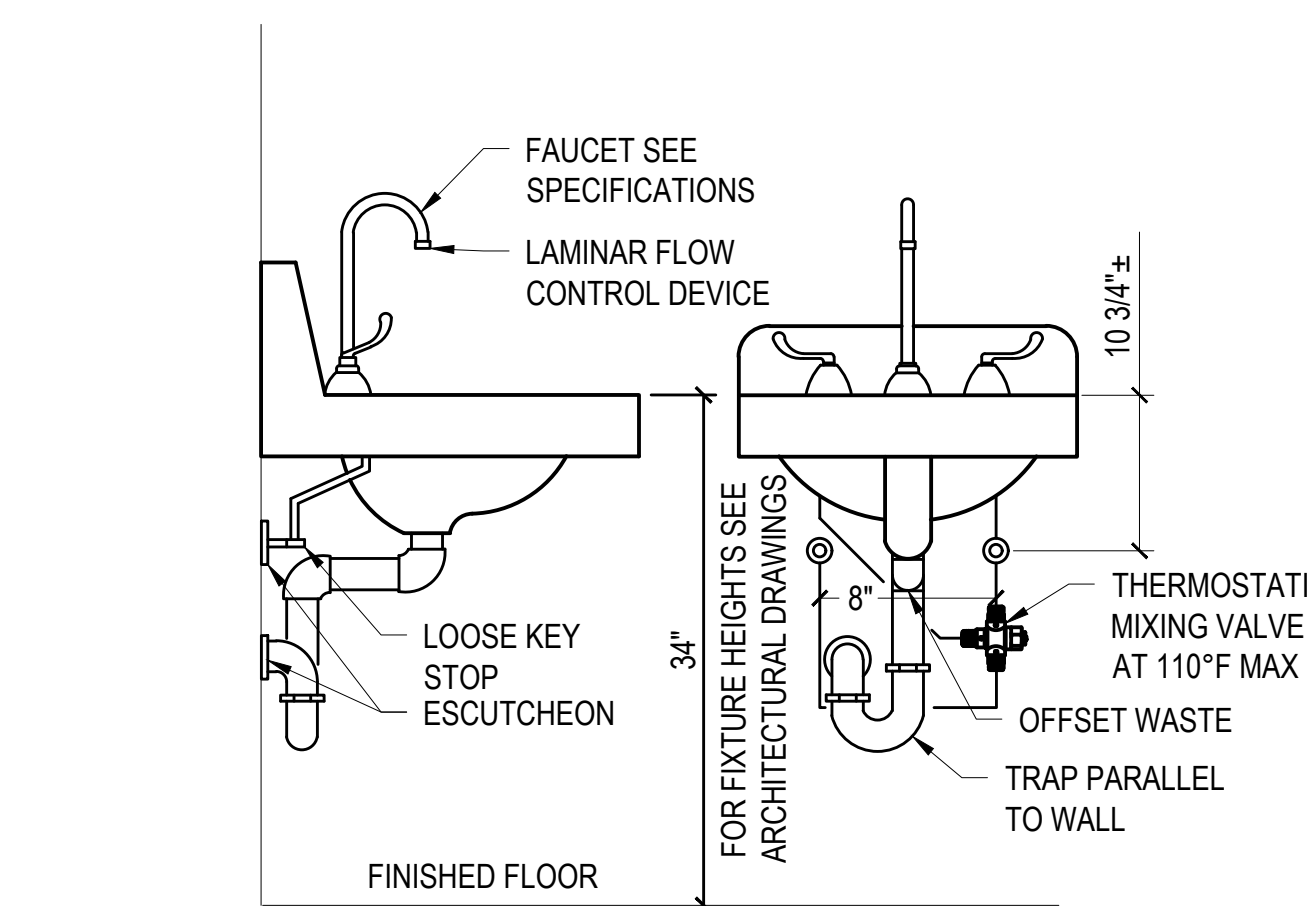
12 METAL PIPE SUPPORT DETAILS
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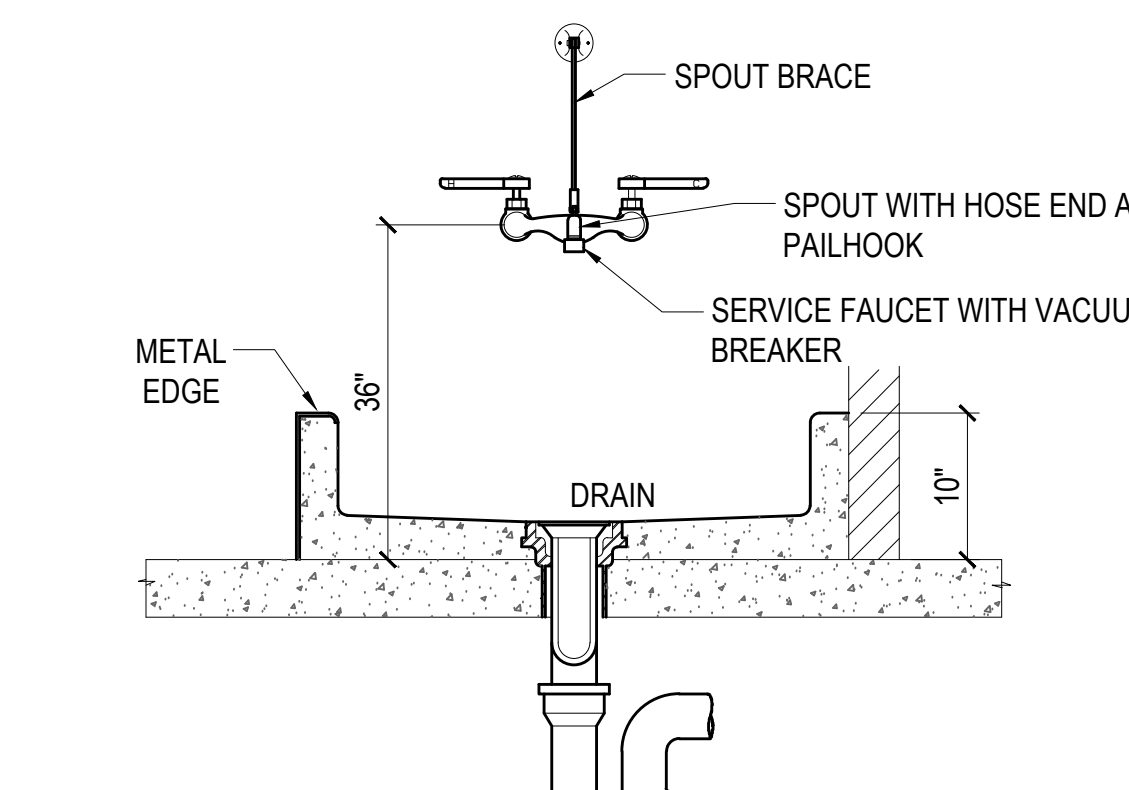
13 WALL CLEANOUT DETAIL
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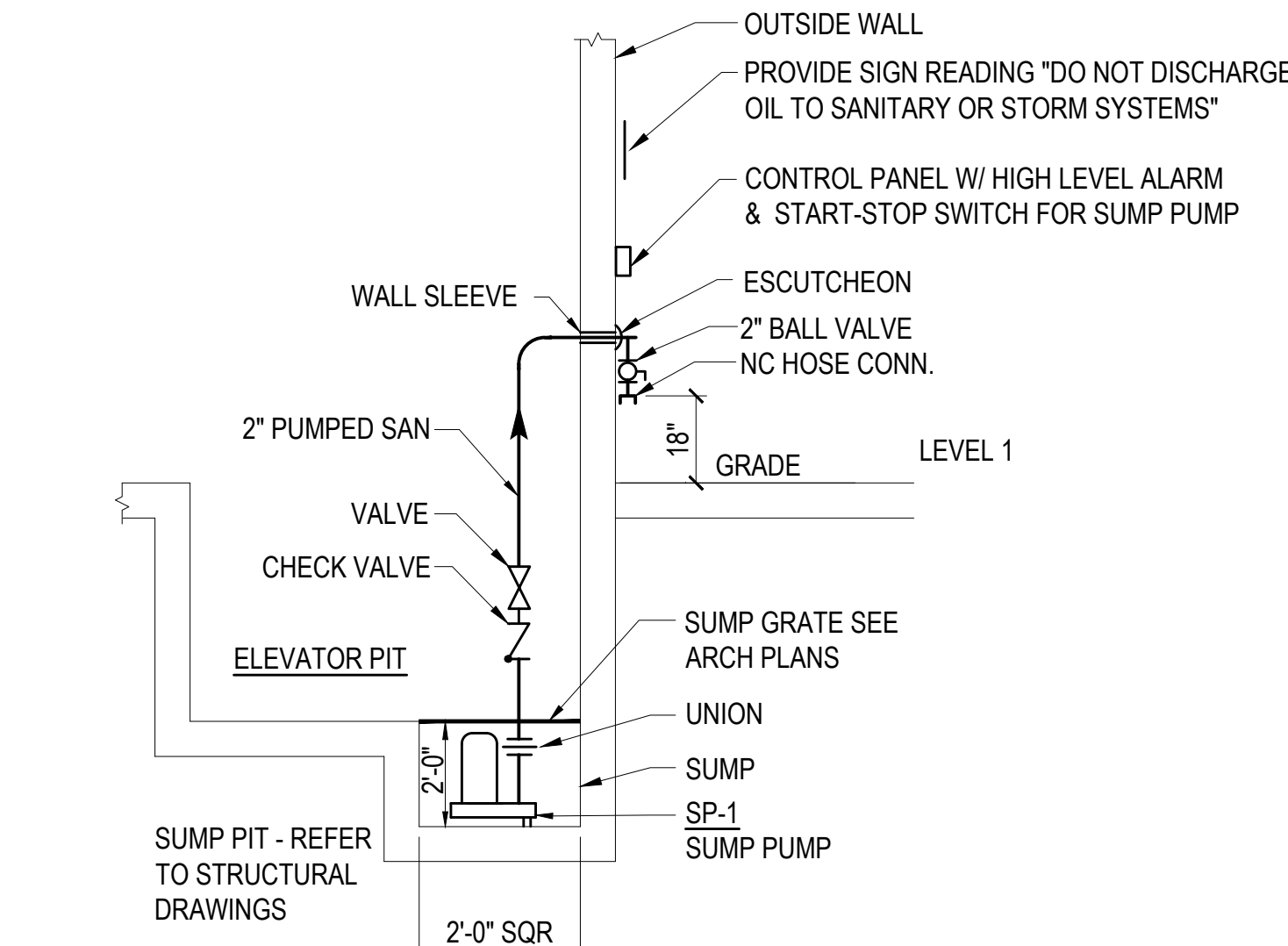
14 FLOOR DRAIN DETAIL
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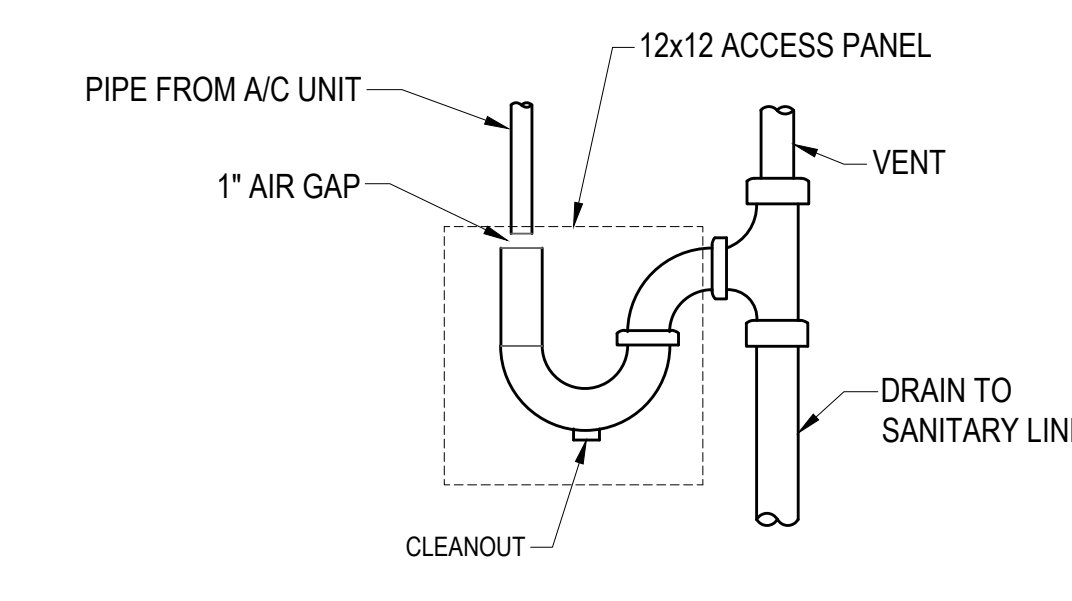
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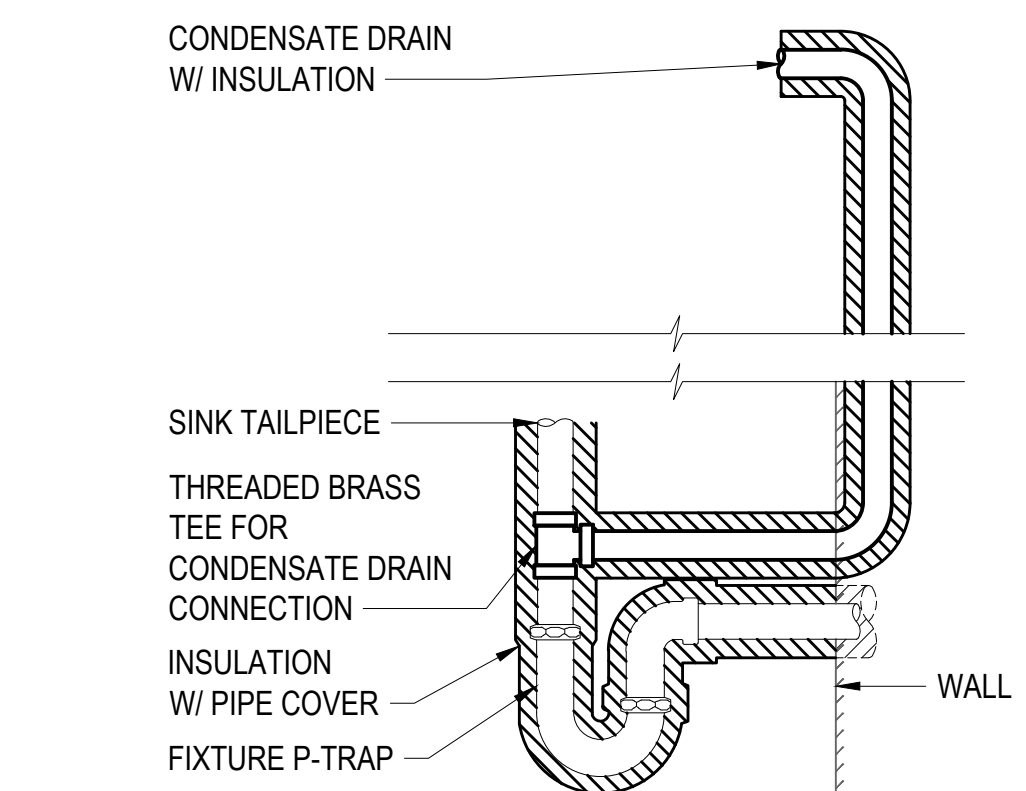
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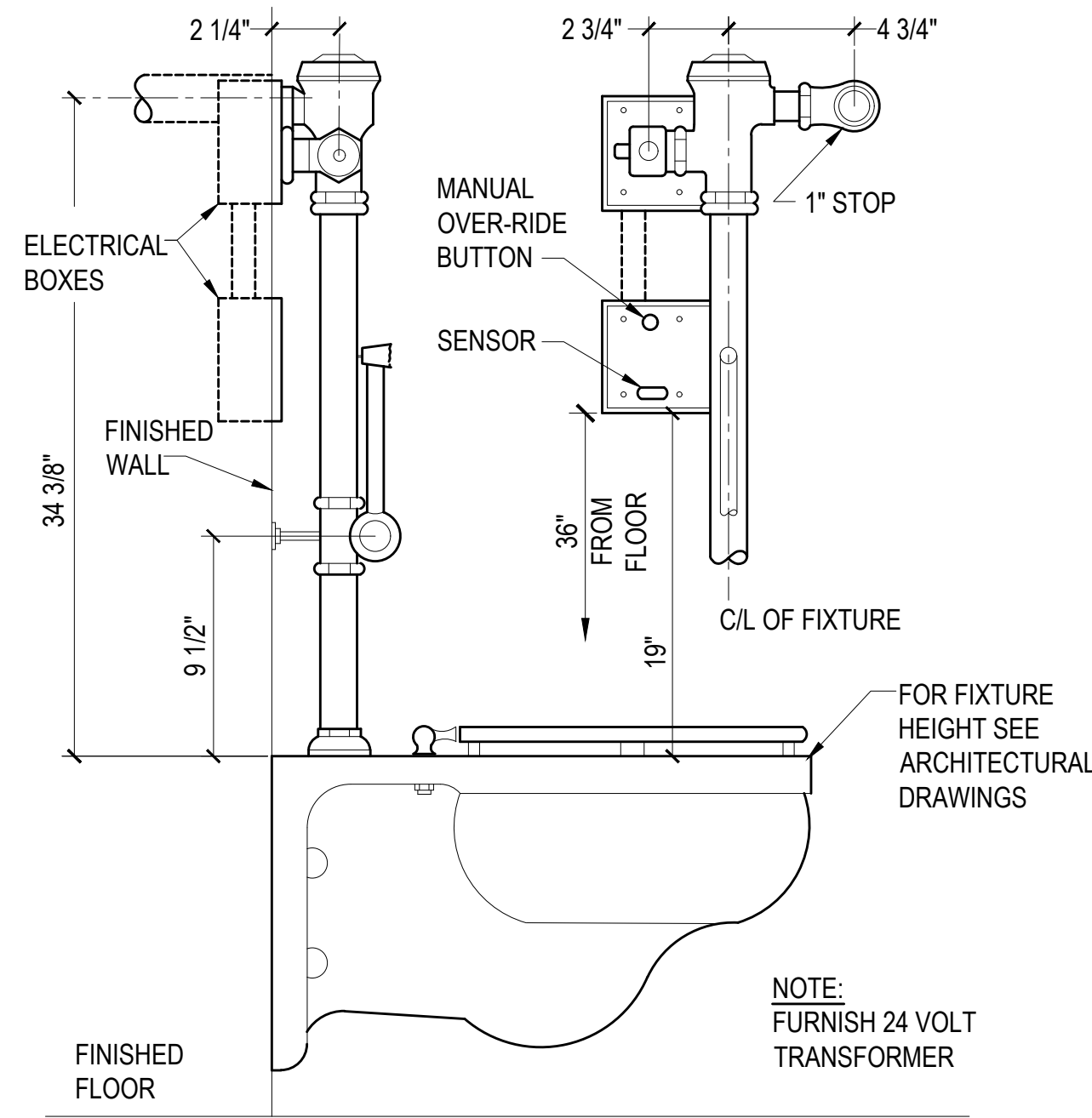
17 ELEVATOR SUMP PUMP DETAIL
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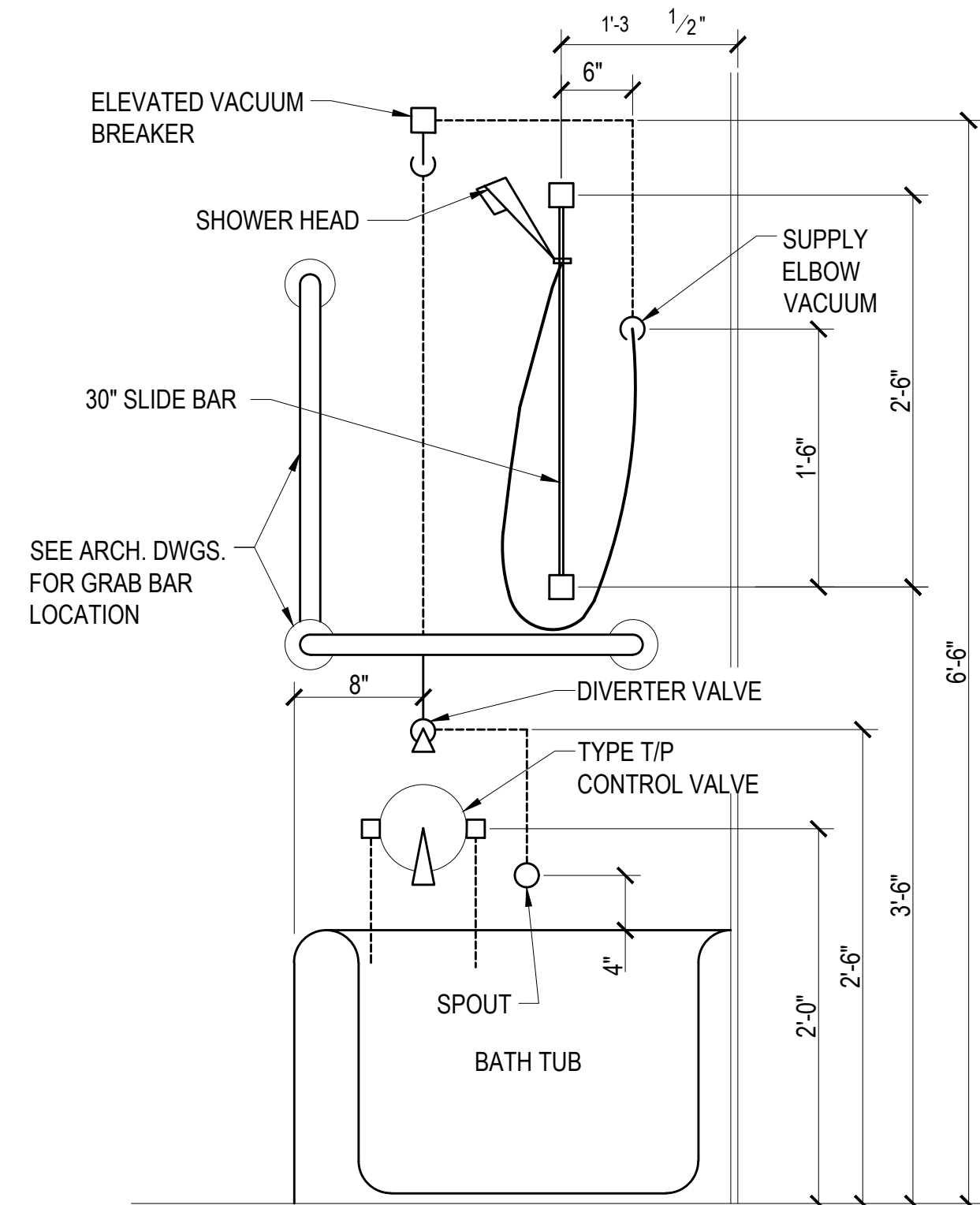
18 AC CONDENSATE INDIRECT DRAIN
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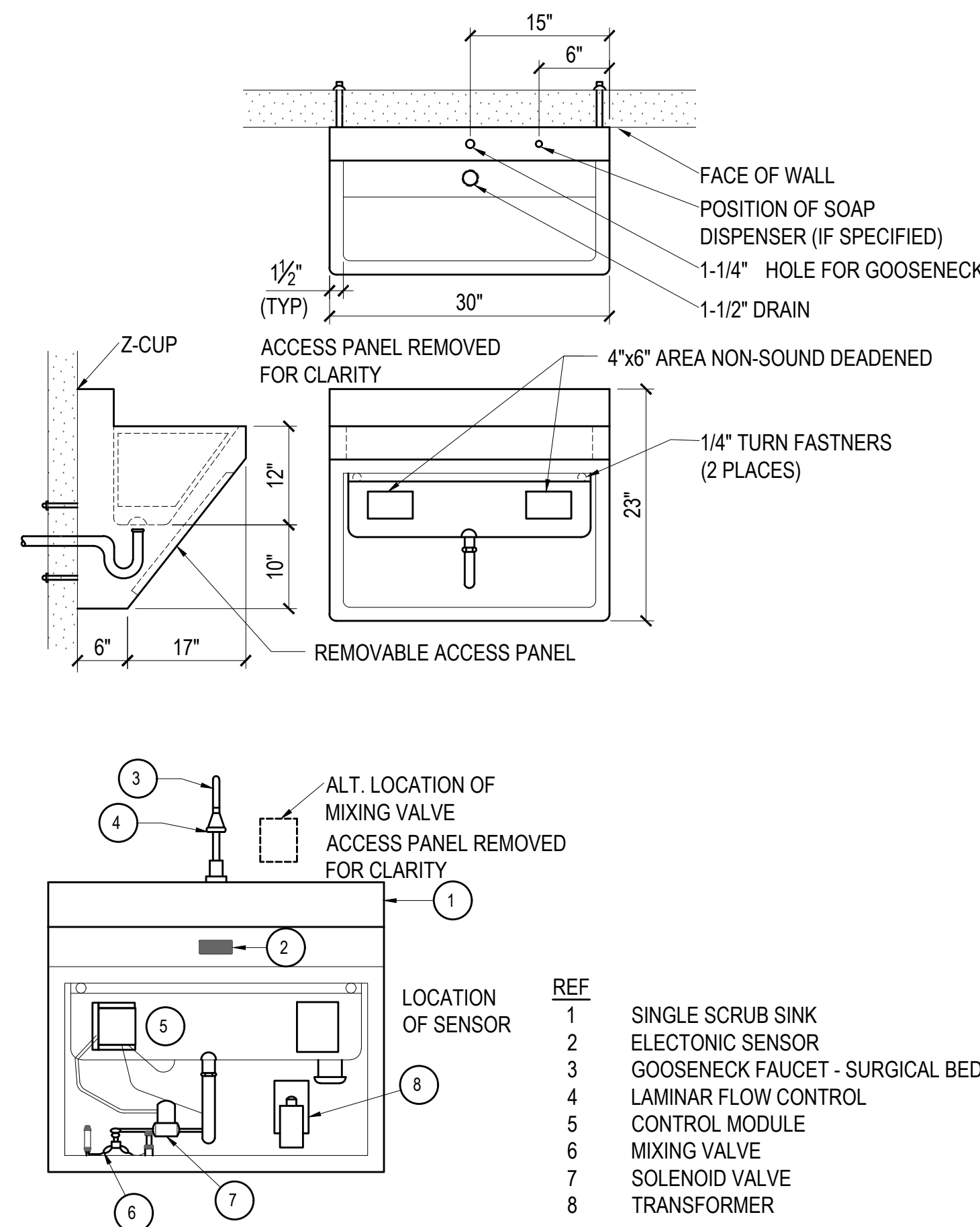
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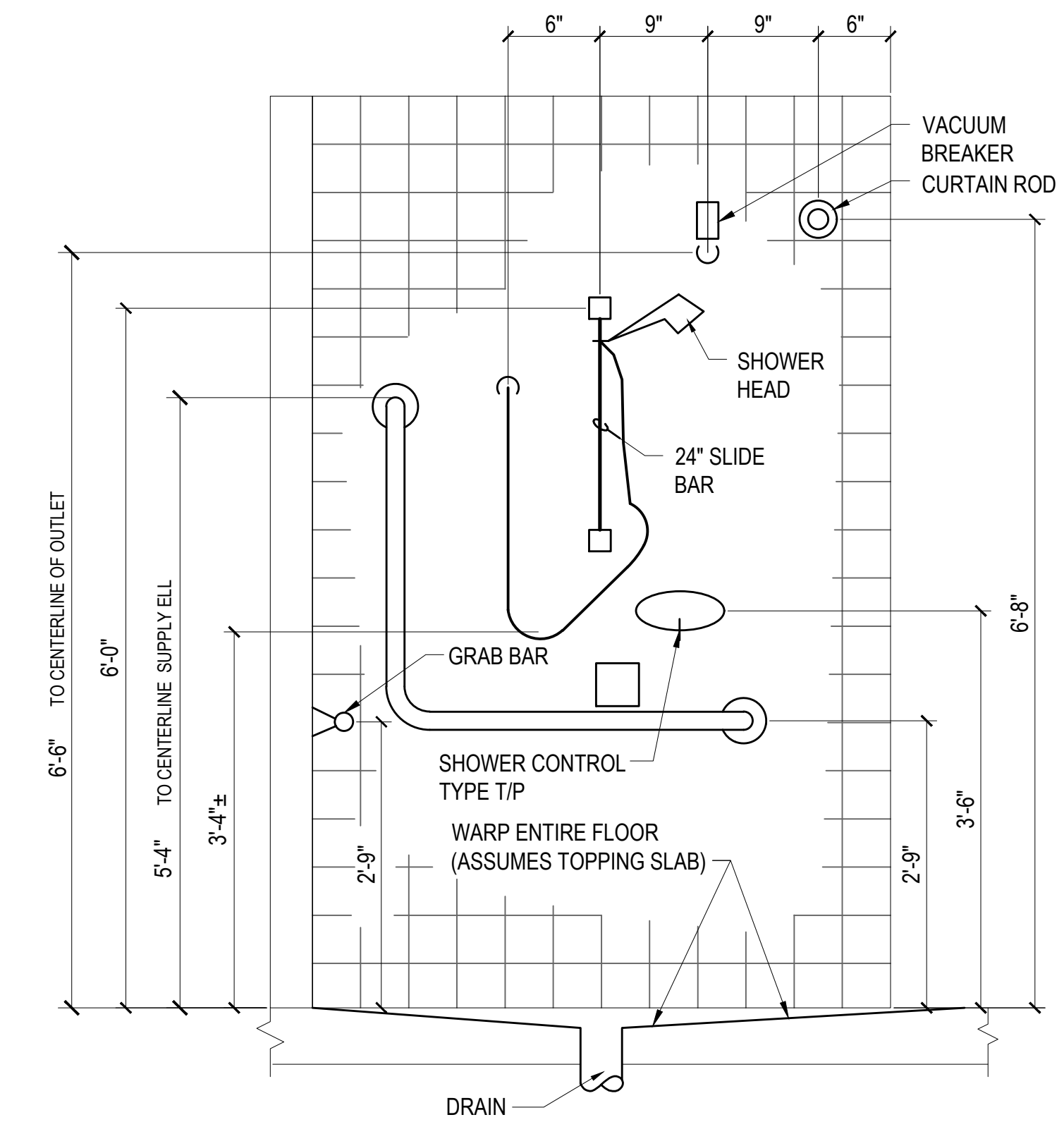
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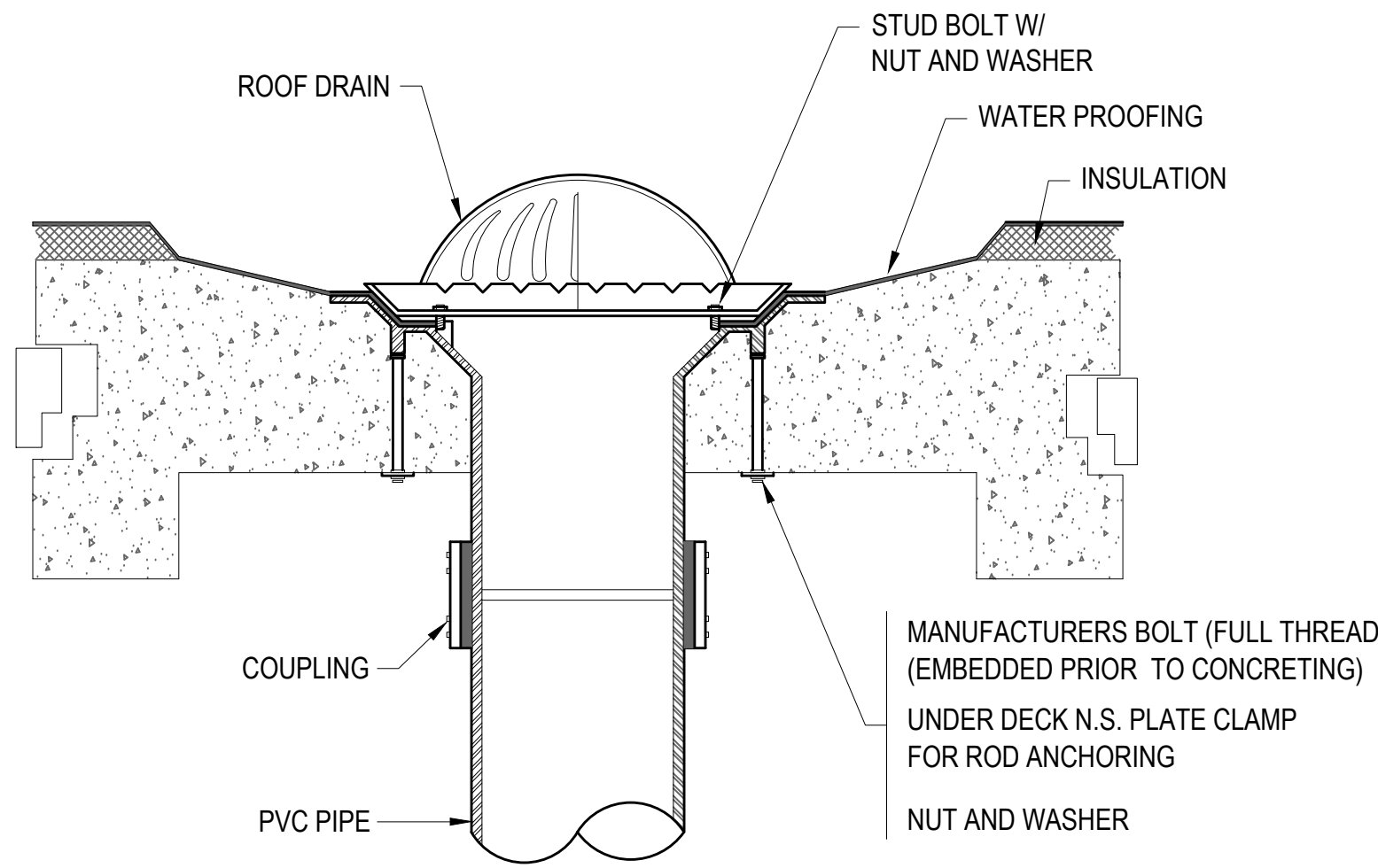
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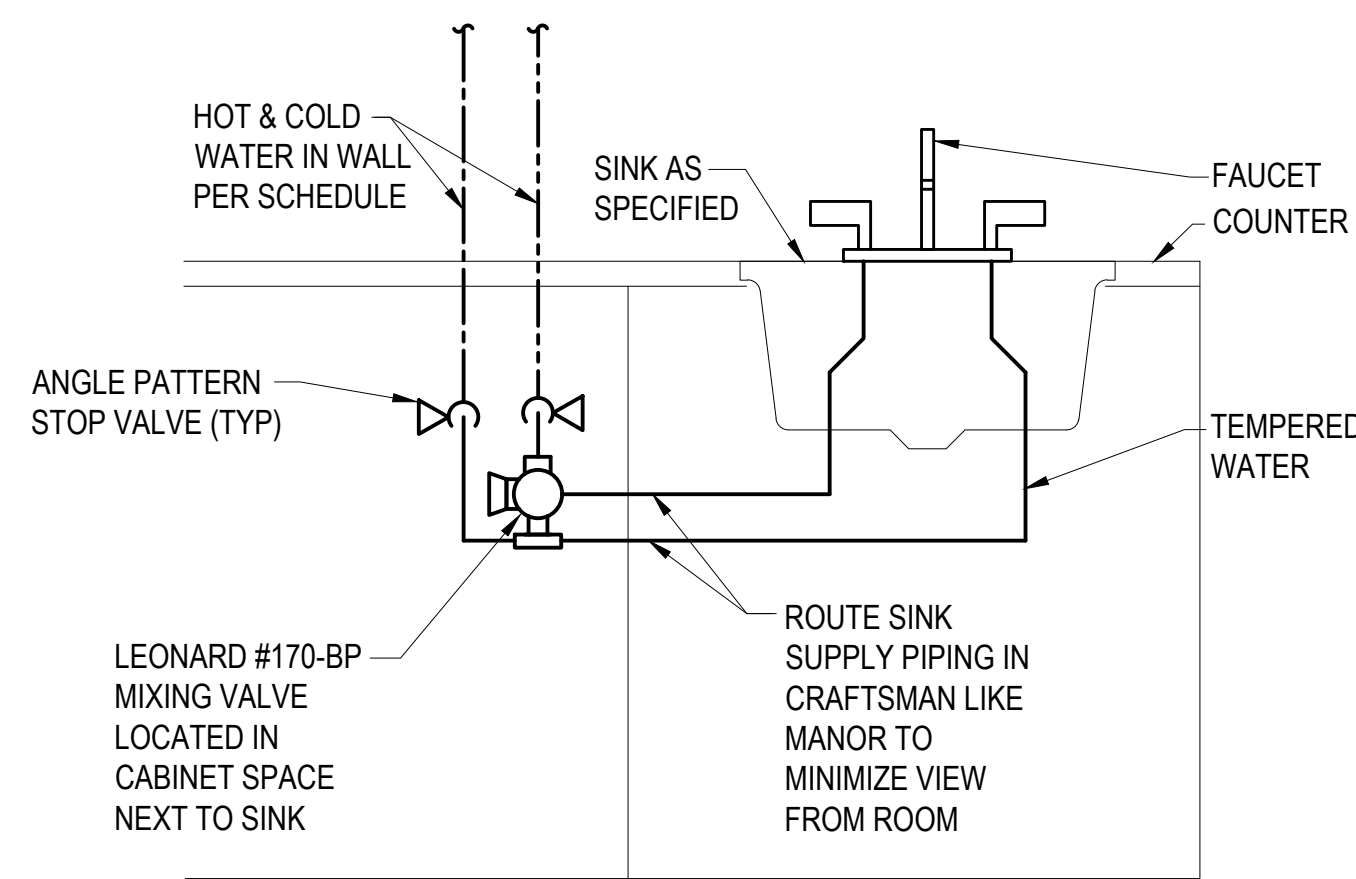
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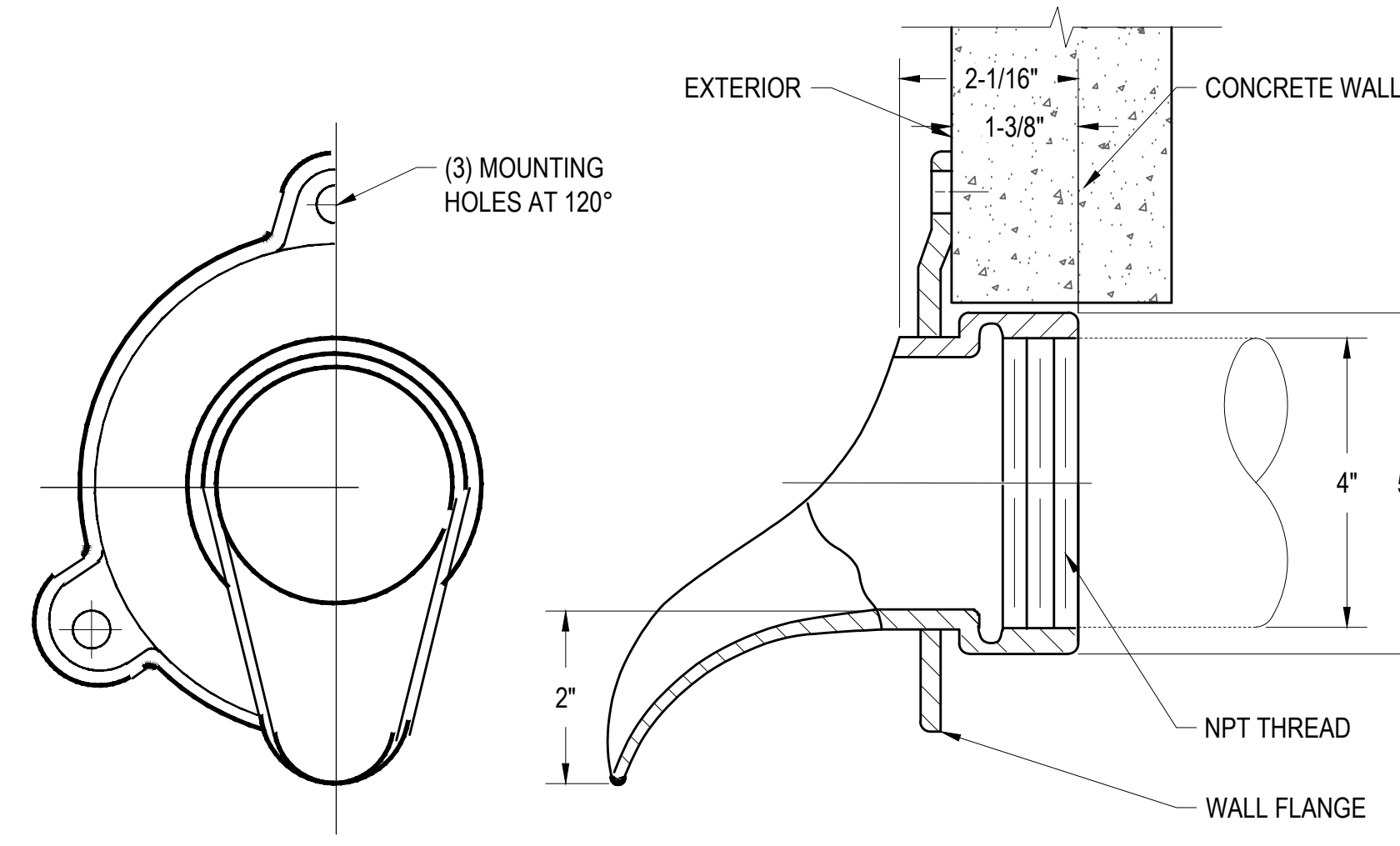
4 PATIENT SHOWER DETAIL
P301 NOT TO SCALE



5 ROOF DRAIN DETAIL
P301 NOT TO SCALE



6 BABY BATH SINK DETAIL
P301 NOT TO SCALE



7 DOWNSPOUT NOZZLE DETAIL
P301 NOT TO SCALE

PLUMBING FIXTURE SCHEDULE						
MARK	FIXTURE	SOIL	VENT	COLD WATER	HOT WATER	REMARKS
DF	DRINKING FOUNTAIN	1-1/2"	1-1/2"	1/2"	-	ELECTRIC, SELF-CONTAINED, WALL HUNG, R-134A REFRIGERATED DUAL LEVEL WATER COOLER. CHILLING CAPACITY OF 8 GPH OF 50°F DRINKING WATER. SELF CLOSING CONTROLS ON THE FRONT. DUAL LEVEL ADA COMPLIANT, WITH OW 200L FILTER FOR DRINKING FOUNTAINS.
FD	FLOOR DRAIN	2"	1-1/2"	-	-	FLOOR DRAIN, 5" DIA. JR SMITH #2005 OR EQUAL WITH ADJUSTABLE STRAINER HEAD AND CAST IRON BODY. FURNISH WITH 1/2" TRAP PRIMER CONNECTION AND NICKEL BRONZE STRAINER. IF PVC DRAINS ARE USED, SCHEDULE 80 PVC DRAIN PIPE SHALL BE USED FOR THE FIRST 10'-0" FROM THE DRAIN
HB	HOSE BIBB	-	-	3/4"	-	WALL FAUCET WITH INTEGRAL VACUUM BREAKER, BRONZE CASING AND 3/4" NPT
IM 105	ICE MACHINE	1-1/2"	-	1/2"	-	SYMPHONY MODEL 25. COUNTER MOUNTED AIR COOLED
L1	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	KOHLER VEER: WHITE VITREOUS CHINA, WALL MOUNTED, ADA ACCESSIBLE. COMPLETE WITH STRAINER, TRAP, ESCUTCHEON, TEMPERING VALVE, FAUCET: THREE HOLE DECK MOUNTED FAUCET @ 0.5 GPM WITH WING HANDLES, ADA COMPLIANT.
L2	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	MINETTE CORNER SINK: WHITE VITREOUS CHINA, WALL MOUNTED CORNER SINK, ADA ACCESSIBLE. COMPLETE WITH STRAINER, TRAP, ESCUTCHEON, TEMPERING VALVE, FAUCET: THREE HOLE DECK MOUNTED FAUCET @ 0.5 GPM, WITH WING HANDLES ADA COMPLIANT.
RD	ROOF DRAIN	4"	-	-	-	4" NO HUB ROOF DRAIN WITH INTEGRAL OVERFLOW, CAST IRON BODY, ROOF SUMP RECEIVER, CAST IRON DOME STRAINER.
SS	SERVICE SINK	2"	1-1/2"	1/2"	1/2"	UTILITY SINK, SINGLE 24x24 BASIN, FREE STANDING, POLYPROPYLENE TUB, WHITE, WITH DECK MOUNTED CHROME DOUBLE HANDLE 4" CENTERS FAUCET SET, 5.5" AERATOR SPOUT AND TRAP
SS-M1	SCRUB SINK	2"	1-1/2"	1/2"	1/2"	EXISTING SURGEONS SCRUB SINK TO BE REMOVED AND REINSTALLED
SS-B	BABY SINK	2"	1-1/2"	1/2"	1/2"	ASST. CRADLE BABY BOWL, 24x16x5, 3-HOLE 4" CENTERS. FAUCET: 8" GOOSENECK @ 0.5 GPM, LEVER HANDLES, PROVIDE WITH LEONARD #170-BP MIXING VALVE AND PROVIDE TEMPERED WATER AT 105°F TO HW CONNECTION @ FAUCET, DECK MOUNT, DRAIN, POP-UP DRAIN, TRAP AND ESCUTCHEON. BOWL TO BE INTEGRAL WITH COUNTER
S1	ROOM SINK	2"	1-1/2"	1/2"	1/2"	SINGLE COMPARTMENT, COUNTER SET, 22x22x8" 18 GA STAINLESS STEEL, SELF RIMMING, 3-HOLE 4" CENTERS, FAUCET: 8" GOOSENECK @ 0.5 GPM, LEVER HANDLES, DECK MOUNT, TEMPERING VALVE, DRAIN, STRAINER, STAINLESS STEEL BASKET, TRAP AND ESCUTCHEON.
S2	HAND SINK	2"	1-1/2"	1/2"	1/2"	SINGLE COMPARTMENT, COUNTER SET, 19x19x8" 18 GA STAINLESS STEEL, SELF RIMMING, 3-HOLE 4" CENTERS, FAUCET: 8" GOOSENECK @ 0.5 GPM, LEVER HANDLES, DECK MOUNT, TEMPERING VALVE, DRAIN, STRAINER, STAINLESS STEEL BASKET, TRAP AND ESCUTCHEON.
S3	HAND SINK	2"	1-1/2"	1/2"	1/2"	SINGLE COMPARTMENT, COUNTER SET, 19x19x8" 18 GA STAINLESS STEEL, WALL MOUNT, 1-HOLE 8" GOOSENECK @ 0.5 GPM, FOOT OPERATED, TEMPERING VALVE, DRAIN, STRAINER, STAINLESS STEEL BASKET, TRAP AND ESCUTCHEON.
S4	SCRUB SINK	2"	1-1/2"	1/2"	1/2"	AMSCO, SINGLE COMPARTMENT, WALL MOUNTED, 28x22" VITREOUS CHINA, 1-HOLE 8" GOOSENECK @ ELECTRIC SENSOR, 0.5 GPM FLOW RATE, TEMPERING VALVE, DRAIN, STRAINER, STAINLESS STEEL BASKET, TRAP AND ESCUTCHEON.
S5	HAND SINK	2"	1-1/2"	1/2"	1/2"	SINGLE COMPARTMENT, COUNTER SET, 19x19x8" 18 GA STAINLESS STEEL, SELF RIMMING, 3-HOLE 4" CENTERS, FAUCET: 8" GOOSENECK @ 0.5 GPM, LEVER HANDLES, DECK MOUNT, TEMPERING VALVE, DRAIN, STRAINER, STAINLESS STEEL BASKET, TRAP AND ESCUTCHEON.
S6	CLINIC SINK	4"	2"	1-1/2"	1/2"	WHITE VITREOUS CHINA WALL MOUNTED WITH CARRIER, ELECTRONIC FLUSHOMETER HET VALVE TYPE, 1-1/2" TOP SPUD, SIPHON JET, 6.5 GPF, WALL MOUNTED FAUCET WITH VACUUM BREAKER, ELBOW ACTION HANDLES, WALL BRACE, LOOSE KEY STOPS, WITH P BEDPAN WASHER WITH PEDAL VALVE, 4" VINYL HOSE SPRAY OUTLET AND VACUUM BREAKER.
SA	SHOCK ARRESTOR	-	-	1/2"	-	STAINLESS STEEL CASING WITH STAINLESS STEEL BELOW, PRECHARGED WITH NITROGEN. SIZED PER PDI-WH201 - INSTALL ON ALL FIXTURES (WC, LAVS, SINKS, ETC.)
SH	SHOWER	2"	1-1/2"	1/2"	1/2"	FAUCET: CHROME PLATED, CENTRAL THERMOSTAT TRIM KIT, SINGLE UNIT HANDLE WITH HOT LIMIT SAFETY STOP, ADA COMPLIANT, 3 FUNCTION WATER SAVING SHOWERHEAD 1.5 GPM. BUILT IN PRESSURE COMPENSATING FLOW CONTROL. FLEX SHOWER HEAD ASSEMBLY. DRAIN.
T1	TUB	2"	1-1/2"	1/2"	1/2"	TUB: ONE PIECE, 66x32, ENAMEL CAST IRON, GLOSS PORCELAIN FINISH, INTEGRAL APRON, WITH POP UP DRAIN, OVERFLOW, TUB FAUCET AND COMBINATION BATH & SHOWER VALVE TRIM, WITH HAND SHOWER KIT AND VACUUM BREAKER.
T2	TUB	2"	1-1/2"	3/4"	3/4"	TUB: DROP IN, OVAL, 42x72, 4 JET, CONTROLLER, COLOR WHITE WITH POP UP DRAIN, OVERFLOW, DECK MOUNDED 3-HOLE TUB FILLER, 15 GPM, SHOWER BAR
MS	MOP SINK	3"	2"	3/4"	3/4"	JANITOR/MOP SINK: 28x28 ENAMELED CAST IRON SERVICE SINK, W/ REMOVABLE VINYL COATED WIRE RIM GUARD AND FLAT METAL STRAINER TAPPED FOR 3"NPT. SUPPLY FITTING WITH VACUUM BREAKER, LOOSE KEY STOPS, RUBBER HOSE AND WALL HOOK
WC-M	WATER CLOSET	4"	2"	1-1/4"	-	WHITE VITREOUS CHINA WALL MOUNTED WITH CARRIER, ELECTRONIC FLUSHOMETER HET VALVE TYPE, ELONGATED BOWL, 1-1/2" TOP SPUD, SIPHON JET, ADA COMPLIANT, 1.28 GPF, WITH WHITE FRONT SEAT AND NO COVER. FLUSH VALVES SHALL BE RIGHT HAND OR LEFT HAND AS REQUIRED TO CORRESPOND WITH ACCESS FROM WIDE SIDE OF STALL. VERIFY FLUSH SIDE REQUIREMENTS WITH BED PAN WASHER, HURON WATER CLOSET
WC-A	WATER CLOSET	4"	2"	1-1/4"	-	WHITE VITREOUS CHINA FLOOR MOUNTED, ELECTRONIC FLUSHOMETER HET VALVE TYPE, ELONGATED BOWL, 1-1/2" TOP SPUD, SIPHON JET, ADA COMPLIANT, 1.28 GPF, WITH WHITE FRONT SEAT AND NO COVER. FLUSH VALVES SHALL BE RIGHT HAND OR LEFT HAND AS REQUIRED TO CORRESPOND WITH ACCESS FROM WIDE SIDE OF STALL. VERIFY FLUSH SIDE REQUIREMENTS. HURON WATER CLOSET
FS	FLOOR SINK	2"	1-1/2"	-	-	4"x8" 3.25" DEEP CAST IRON FLANGED RECEPTOR WITH ACID RESISTANT COATED INTERIOR, NICKEL BRONZE RIM AND 1/2 GRATE. ALUMINUM DOME STRAINER, FLASHING CLAMP. JR SMITH 3300Y.
COTG	EXTERIOR CLEANOUT	*	-	-	-	CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORIATED HEAVY CAST IRON COVER. * SIZE AS INDICATED ON PLAN.
WCO	WALL CLEANOUT	*	-	-	-	CLEANOUT TEE WITH INLET/OUTLET SPIGOT AND THREADED BRASS PLUG, WITH STAINLESS STEEL ACCESS COVER. * SIZE AS INDICATED ON PLAN.

PUMP SCHEDULE														
MARK	LOCATION	SERVICE	TYPE	GPM	TOTAL DYNAMIC HEAD FT	SUCTION SIZE INCHES	DISCHARGE SIZE INCHES	MIN EFF PERCENT	RPM	HP	VOLTS	PHASE	OPR WEIGHT (LBS)	REMARKS
SP-1	ELEVATOR SHAFT	ELEVATOR SUMP	SUBMERSIBLE SUMP PUMP	50	10	2"	2"	-	3450	1/2	115	1	73	PROVIDE WITH A CONTROL SYSTEM FOR ALARM, MONITORING, AND DETECTING OF OIL AND WATER IN THE SUMP PIT IN ACCORDANCE WITH ASME A17.1.

MEDICAL GAS AREA ALARM PANEL SCHEDULE	
MARK	REMARKS
LAP-1	LOCAL AREA ALARM PANEL, C-SECTION: SERVICE: OXYGEN, MEDICAL AIR, MEDICAL VACUUM. ELECTRICAL: 120V-SINGLE PHASE, EMERGENCY POWER REQUIRED.
LAP-2	LOCAL AREA ALARM PANEL, NICU: SERVICE: OXYGEN, MEDICAL AIR, MEDICAL VACUUM. ELECTRICAL: 120V-SINGLE PHASE, EMERGENCY POWER REQUIRED.
LAP-3	LOCAL AREA ALARM PANEL, NICU: SERVICE: OXYGEN, MEDICAL AIR, MEDICAL VACUUM. ELECTRICAL: 120V-SINGLE PHASE, EMERGENCY POWER REQUIRED.

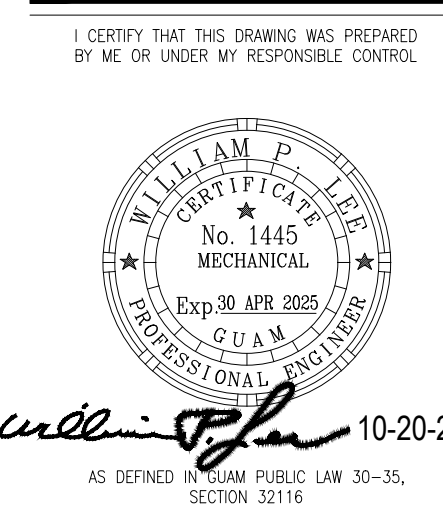
NOTES:
1. MECHANICAL CONTRACTOR SHALL INCLUDE REQUIRED MEDICAL GAS PRESSURE SWITCHES AND MEDICAL GAS ALARM WIRING BETWEEN PRESSURE SWITCHES, SOURCE EQUIPMENT, AND MEDICAL GAS ALARM PANELS. MEDICAL GAS ALARM PANEL TO BE BEACON MEDAES MEGA 2' MED GAS ALARM PANEL.
2. AREA ALARM PANELS SHALL BE COMPATIBLE AND INTEGRATED INTO THE EXISTING MASTER ALARM PANELS.

MEDICAL GAS CEILING COLUMNS, HEADWALLS AND WALL OUTLETS SCHEDULE									
MARK	TYPE	SERVICE AREA	PIPE SIZE - NO. OF OUTLET, EACH						REMARKS
			O2	MA	MV	SLIDE	N2O	WAGD	
A	CEILING OUTLET	C-SECTION (258)	2	1	4	-	1	1	SEE NOTES 1 TO 3, 5, AND 6.
B	WALL OUTLET	INFANT RESUSCITATION	3	3	3	3	-	-	SEE NOTES 1 TO 5.
C	WALL OUTLET	LDR	2	-	2	2	-	-	SEE NOTES 1 TO 5.
D	WALL OUTLET	LDRP	2	-	2	2	-	-	SEE NOTES 1 TO 5.
E	WALL OUTLET	RECOVERY (257)	2	2	3	3	-	-	SEE NOTES 1 TO 5.
F	WALL OUTLET	POST PARTUM 1 - 12	1	-	1	1	-	-	SEE NOTES 1 TO 5.
G	WALL OUTLET	POST PARTUM 13 - 15	1	1	1	1	-	-	SEE NOTES 1 TO 5.
H	WALL OUTLET	HEARING EXAM (237)	1	1	1	1	-	-	SEE NOTES 1 TO 5.
I	WALL OUTLET	EXAMS (277)	1	-	1	1	-	-	SEE NOTES 1 TO 5.
J	WALL OUTLET	NICU (212)	3	3	3	3	-	-	SEE NOTES 1 TO 5.

NOTES:
1. MEDICAL GAS SERVICE PIPE SIZE TO EACH OUTLET SHALL BE 1/2", EXCEPT MEDICAL VACUUM WHICH SHALL BE 3/4", UNLESS NOTED OTHERWISE.
2. SEE ARCHITECTURAL AND ELECTRICAL PLANS, ELEVATIONS, AND DETAILS FOR EXACT LOCATIONS AND ARRANGEMENTS OF OUTLETS.
3. REFER TO FLOOR PLANS FOR LOCATIONS OF LOCAL AREA ALARM PANELS AND ZONE VALVES.
4. PROVIDE VACUUM BOTTLE SLIDE BRACKETS AT EACH VACUUM WALL OUTLET (TYPICAL).
5. MEDICAL GAS PIPE SIZES BETWEEN MAIN SERVICE PIPE AND THE INDIVIDUAL OUTLET BRANCH PIPES SHALL BE THE SAME SIZE AS INDICATED FOR THE ASSOCIATED ZONE VALVE. UNLESS OTHERWISE NOTED.
6. PROVIDE DOWNWARD FACING DISS STATION OUTLETS/INLETS AT CEILING FOR C-SECTION CEILING OUTLETS.

MEDICAL GAS ZONE VALVE BOX SCHEDULE									
MARK	NO. OF VALVE	LOCATION	SERVICE AREA	VALVE PIPE SIZE					REMARKS
				O2	MA	MV	N2O	WAGD	
1	5	CORRIDOR "A" (256)	C-SECTION (258)	1/2"	1/2"	3/4"	1/2"	3/4"	SEE NOTES 1 AND 2.
2	3	CORRIDOR "2" (266)	RECOVERY (257), LDR 1 - 8, EXAMS (277)	1/2"	1/2"	1 1/2"	-	-	SEE NOTES 1 AND 2.
3	3	CORRIDOR "3" (247)	LDRP 1 - 3	1/2"	1/2"	1"	-	-	SEE NOTES 1 AND 2.
4	2	CORRIDOR "3" (247)	POST PARTUM 1 - 7	1/2"	-	1 1/2"	-	-	SEE NOTES 1 AND 2.
5	3	CORRIDOR "D" (235)	POST PARTUM 8 - 15	1/2"	1/2"	1"	-	-	SEE NOTES 1 AND 2.
6	3	CORRIDOR "1" (204)	NICU (212)	1/2"	1/2"	1"	-	-	SEE NOTES 1 AND 2.
7	3	CORRIDOR "1" (204)	NICU (212), ISOLATION ROOM 3 (220)	1/2"	1/2"	1"	-	-	SEE NOTES 1 AND 2.

NOTES:
1. SEE ARCHITECTURAL AND ELECTRICAL PLANS, ELEVATIONS, AND DETAILS FOR EXACT LOCATIONS AND ARRANGEMENT OF VALVES.
2. MEDICAL GAS PIPE SIZES BETWEEN MAIN SERVICE PIPE AND THE INDIVIDUAL OUTLET BRANCH PIPES SHALL BE THE SAME SIZE AS INDICATED FOR THE ASSOCIATED ZONE VALVE, UNLESS NOTED OTHERWISE.
3. FOR TYPICAL ZONE VALVE BOX DETAIL SEE 9/P300.



PERMIT SET

MCH RENOVATION PROJECT, GMHA 007-2014
GMHA FAMILY BIRTH CENTER
850 GOVERNOR CAMACHO ROAD, OKA, TAMUNING, GUAM 96913
GUAM MEMORIAL HOSPITAL AUTHORITY
PLUMBING SCHEDULES

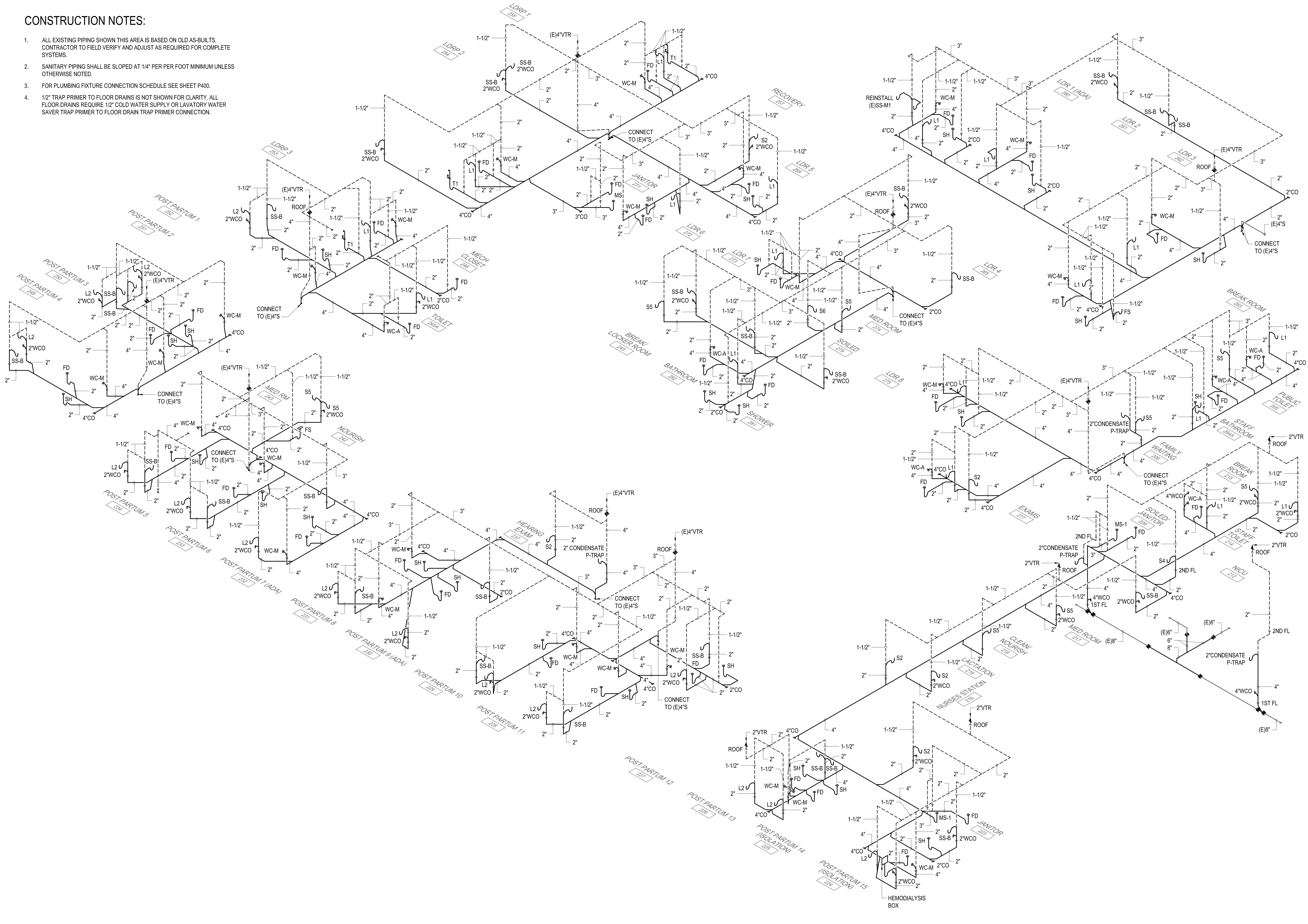
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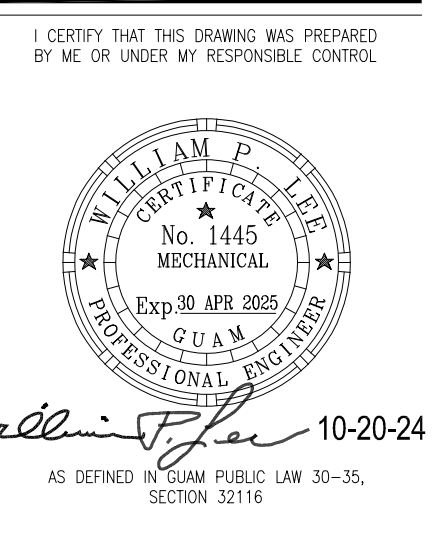
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P400

CONSTRUCTION NOTES:

1. ALL EXISTING PIPING SHOWN THIS AREA IS BASED ON OLD AS-BUILTS. CONTRACTOR TO FIELD VERIFY AND ADJUST AS REQUIRED FOR COMPLETE SYSTEMS.
2. SANITARY PIPING SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM UNLESS OTHERWISE NOTED.
3. FOR PLUMBING FIXTURE CONNECTION SCHEDULE SEE SHEET P400.
4. 1/2" TRAP PRIMER TO FLOOR DRAINS IS NOT SHOWN FOR CLARITY. ALL FLOOR DRAINS REQUIRE 1/2" COLD WATER SUPPLY OR LAVATORY WATER SAVER TRAP PRIMER TO FLOOR DRAIN TRAP PRIMER CONNECTION.



1 PARTIAL SECOND FLOOR ISOMETRIC SANITARY WASTE & VENT
P500 NTS



PERMIT SET

MCH RENOVATION PROJECT, GMHA 007-2014
GMHA FAMILY BIRTH CENTER
 850 GOVERNOR CAMACHO ROAD, OKA, TAMUNING, GUAM 96913
 GUAM MEMORIAL HOSPITAL AUTHORITY
 PARTIAL SECOND FLOOR ISOMETRIC SANITARY WASTE & VENT

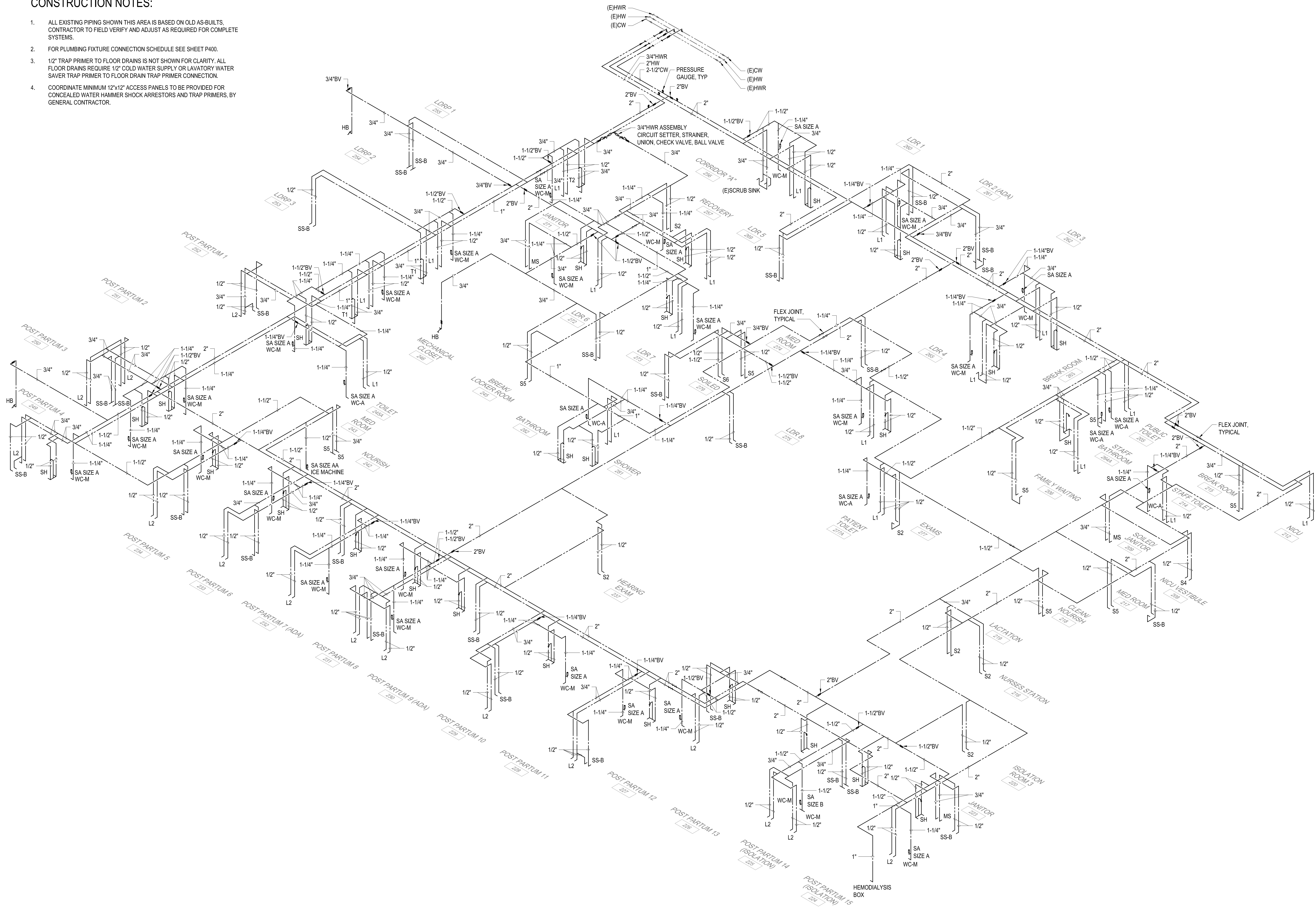
PROJECT TITLE: _____
 OWNER: _____
 SHEET TITLE: _____

MARK	DATE	DESCRIPTION

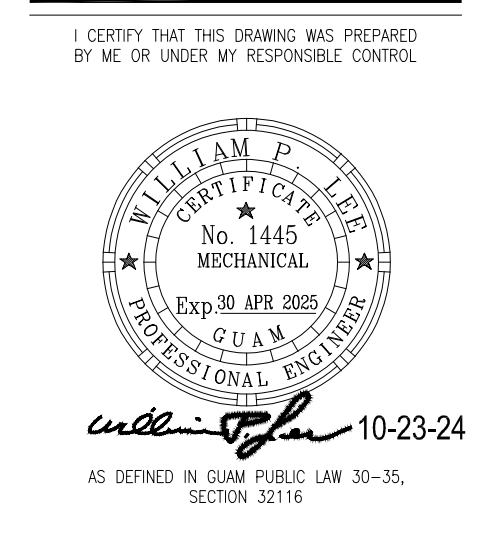
DWG NO: **P500**

CONSTRUCTION NOTES:

1. ALL EXISTING PIPING SHOWN THIS AREA IS BASED ON OLD AS-BUILTS. CONTRACTOR TO FIELD VERIFY AND ADJUST AS REQUIRED FOR COMPLETE SYSTEMS.
2. FOR PLUMBING FIXTURE CONNECTION SCHEDULE SEE SHEET P400.
3. 1/2" TRAP PRIMER TO FLOOR DRAINS IS NOT SHOWN FOR CLARITY. ALL FLOOR DRAINS REQUIRE 1/2" COLD WATER SUPPLY OR LAVATORY WATER SAVER TRAP PRIMER TO FLOOR DRAIN TRAP PRIMER CONNECTION.
4. COORDINATE MINIMUM 12"x12" ACCESS PANELS TO BE PROVIDED FOR CONCEALED WATER HAMMER SHOCK ARRESTORS AND TRAP PRIMERS, BY GENERAL CONTRACTOR.



1 PARTIAL SECOND FLOOR ISOMETRIC DOMESTIC WATER
P501 NTS



PERMIT SET

MCH RENOVATION PROJECT, GMHA 007-2014
GMHA FAMILY BIRTH CENTER
 850 GOVERNOR CAMACHO ROAD, OKA, TAMUNING, GUAM 96913
 GUAM MEMORIAL HOSPITAL AUTHORITY
 PARTIAL SECOND FLOOR ISOMETRIC DOMESTIC WATER

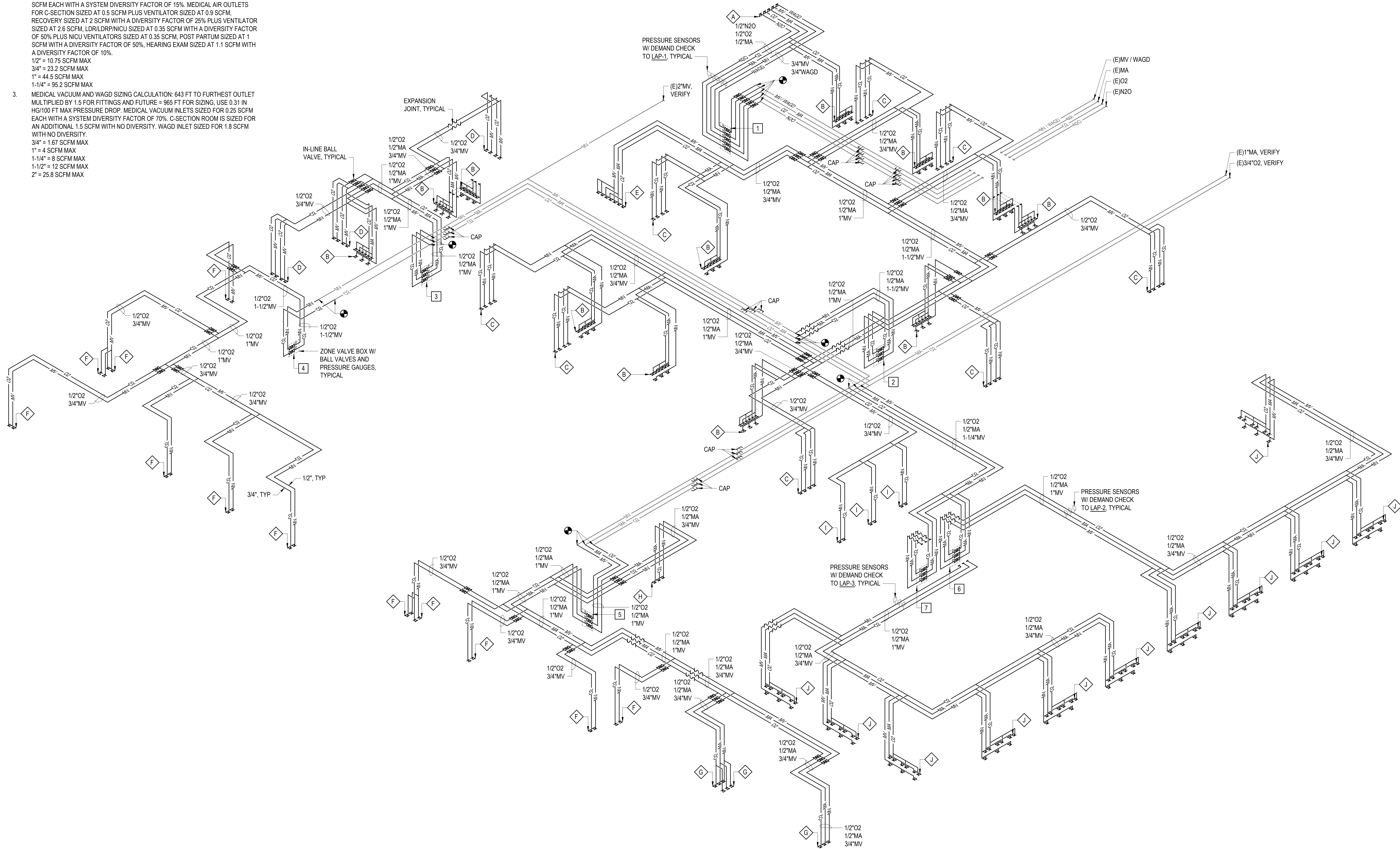
PROJECT TITLE: _____
 OWNER: _____
 SHEET TITLE: _____

MARK	DATE	DESCRIPTION

DWG NO: **P501**

CONSTRUCTION NOTES:

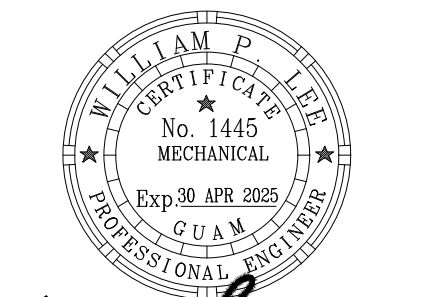
- ALL EXISTING PIPING SHOWN THIS AREA IS BASED ON OLD AS-BUILTS. CONTRACTOR TO FIELD VERIFY AND ADJUST AS REQUIRED FOR COMPLETE SYSTEMS.
- PIPE SIZING CRITERIA:
 OXYGEN AND MEDICAL COMPRESSED AIR BASED ON 55 PSI SYSTEM PRESSURE, MAX 5 PSI PRESSURE DROP FOR PIPING AND FITTINGS.
 MEDICAL VACUUM BASED ON 19 IN HG SYSTEM VACUUM, MAX 3 IN HG PRESSURE DROP FOR PIPING AND FITTINGS.
- OXYGEN AND MEDICAL COMPRESSED AIR SIZING CALCULATION: 562 FT TO FURTHEST OUTLET MULTIPLIED BY 1.5 FOR FITTINGS AND FUTURE = 843 FT FOR SIZING. USE 0.59 PSI/100 FT MAX PRESSURE DROP. OXYGEN OUTLETS SIZED FOR 0.7 SCFM EACH WITH A SYSTEM DIVERSITY FACTOR OF 15%. MEDICAL AIR OUTLETS FOR C-SECTION SIZED AT 0.5 SCFM PLUS VENTILATOR SIZED AT 0.9 SCFM. RECOVERY SIZED AT 2 SCFM WITH A DIVERSITY FACTOR OF 25% PLUS VENTILATOR SIZED AT 2.6 SCFM. LDR/LDRP/NCU SIZED AT 0.35 SCFM WITH A DIVERSITY FACTOR OF 50% PLUS NICU VENTILATORS SIZED AT 0.35 SCFM, POST PARTUM SIZED AT 1 SCFM WITH A DIVERSITY FACTOR OF 50%. HEARING EXAM SIZED AT 1.1 SCFM WITH A DIVERSITY FACTOR OF 10%.
 1/2" = 10.75 SCFM MAX
 3/4" = 23.2 SCFM MAX
 1" = 44.5 SCFM MAX
 1-1/4" = 95.2 SCFM MAX
- MEDICAL VACUUM AND WAGD SIZING CALCULATION: 643 FT TO FURTHEST OUTLET MULTIPLIED BY 1.5 FOR FITTINGS AND FUTURE = 965 FT FOR SIZING. USE 0.31 IN HG/100 FT MAX PRESSURE DROP. MEDICAL VACUUM INLETS SIZED FOR 0.25 SCFM EACH WITH A SYSTEM DIVERSITY FACTOR OF 70%. C-SECTION ROOM IS SIZED FOR AN ADDITIONAL 1.5 SCFM WITH NO DIVERSITY. WAGD INLET SIZED FOR 1.8 SCFM WITH NO DIVERSITY.
 3/4" = 1.67 SCFM MAX
 1" = 4 SCFM MAX
 1-1/4" = 8 SCFM MAX
 1-1/2" = 12 SCFM MAX
 2" = 25.8 SCFM MAX



1 PARTIAL SECOND FLOOR ISOMETRIC MEDICAL GAS
 P502 NTS



I CERTIFY THAT THIS DRAWING WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CONTROL.



10-20-24
 AS DEFINED IN THE RULES AND REGULATIONS OF THE BOARD OF PROFESSIONAL ENGINEERS OF GUAM

PERMIT SET

MCH RENOVATION PROJECT, GMHA 007-2014
GMHA FAMILY BIRTH CENTER
 850 GOVERNOR CAMACHO ROAD, OKA, TAMUNING, GUAM 96913
 GUAM MEMORIAL HOSPITAL AUTHORITY
 PARTIAL SECOND FLOOR ISOMETRIC MEDICAL GAS

PROJECT TITLE: OWNER: SHEET TITLE:

MARK	DATE	DESCRIPTION
DATE	: 2024.10.25	
PROJECT NO	: 144052.02	
DRAWN BY	: MRO	
CHECKED BY	: WPL	
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DWG NO:
P502