FIRE / SMOKE BARRIER DESIGNATIONS

THE SYMBOLS SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT. ALL FLOOR ASSEMBLIES SHALL BE DESIGNATED AS 2 HOUR FIRE, BARRIER(S), UNLESS NOTED

OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS.

1 HOUR FIRE BARRIER	
2 HOUR FIRE BARRIER	
SMOKE BARRIER	

OF DEMOLITION WORK REQUIRED AND DO NOT INDICATE EVERY PIPE OR PIECE OF EQUIPMENT THAT MUST BE REMOVED. ACCESSIBILITY OF EQUIPMENT AND SYSTEMS IS NOT SHOWN NOR SHOULD IT BE INFERRED. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH CEILING SYSTEM DISASSEMBLY AND REASSEMBLY TO ACCOMMODATE THIS WORK. CONTRACTOR TO SALVAGE, STORE, AND REINSTALL ALL CEILING MOUNTED DEVICES. CONTRACTOR IS RESPONSIBLE FOR PATCHING ALL PENETRATIONS CREATED BY REMOVAL OF EQUIPMENT, DUCTWORK, PIPING, ETC. TO MATCH EXISTING. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK. PATCH TO

PLUMBING DEMOLITION NOTES:

THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE

CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS TO THE EXISTING SPRINKLER PIPING, PLUMBING PIPING, HVAC PIPING, AND DUCTWORK NECESSARY TO PERMIT THE INSTALLATION OF NEW WORK. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON OPERATING EQUIPMENT, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.

EXTEND EXISTING INSTALLATIONS USING MATERIAL AND

METHODS COMPATIBLE WITH EXISTING MECHANICAL

INSTALLATIONS, OR AS SPECIFIED FOR INTENDED

MATCH ORIGINAL CONSTRUCTION. VERIFY ALTERNATIVE

ARCHITECT/ENGINEER BEFORE PROCEEDING WITH

OR SPECIAL REPAIR METHODS WITH

SERVICE. EXISTING PLUMBING SYSTEM: MAINTAIN SERVICE TO ALL PLUMBING FIXTURES UNTIL NEW PIPING IS INSTALLED. OBTAIN PERMISSION FROM OWNER AT LEAST 72 HOURS BEFORE SHUTTING DOWN SYSTEM FOR ANY REASON. MAKE CHANGEOVER TO NEW PIPING WITH MINIMUM OUTAGE. DO NOT DISCONNECT ANY ROOF DRAINAGE PIPING UNTIL NEW PIPING IS IN PLACE AND OPERATIONAL.

ALL SYSTEM CHANGEOVERS BE COMPLETED IN OVERTIME, NOT DURING NORMAL WORKING HOURS. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION. REMOVE ABANDONED PIPING TO SOURCE OF SUPPLY AND/OR MAIN LINES AND CAP OR MAKE READY FOR

RECONNECTION IF SERVICE IS EXTENDED AS PART OF . REMOVE EXPOSED ABANDONED PIPING INCLUDING ABANDONED PIPING ABOVE ACCESSIBLE CEILING FINISHES. CUT PIPING ABOVE CEILINGS, BELOW FLOORS, AND BEHIND WALLS. CAP REMAINING LINES. REMOVE ALL ASSOCIATED CLAMPS, HANGERS, SUPPORTS, ETC., ASSOCIATED WITH PIPING REMOVAL. . DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED. 14. MAINTAIN ACCESS TO EXISTING MECHANICAL

INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE. . MECHANICAL ITEMS REMOVED AND NOT RELOCATED REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF MATERIAL THE OWNER DOES NOT WANT TO REUSE OR RETAIN FOR MAINTENANCE PURPOSES.

GENERAL PLUMBING NOTES: DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT ACTUAL INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR

PHYSICALLY AT SITE. READ ALL SPECIFICATIONS. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES. LAYOUT AND COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ ENGINEER BEFORE PROCEEDING WITH ANY FABRICATION OR EQUIPMENT ORDERS. CONTRACTOR IS RESPONSIBLE FOR REVIEW OF SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKING REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS. ANY CHANGES THAT ARE REQUIRED TO ELIMINATE CONFLICTS AND RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR

WITHOUT ADDITIONAL COST OR EXPENSE TO THE OWNER. CAULK ALL PIPE PENETRATIONS OF FULL HEIGHT NON FIRE RATED WALLS, PARTITIONS, FLOORS AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN THE ROOMS. CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT DIFFERENT THAN THE BASIS OF DESIGN. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN

FOR EXACT LOCATIONS OF ALL CEILING MOUNTED

DEVICES.

DESIGN CODES:	
DESCRIPTION:	YEAR:
INTERNATIONAL BUILDING CODE	2012
INTERNATIONAL MECHANICAL CODE	2012
INTERNATIONAL PLUMBING CODE	2012
INTERNATIONAL FIRE CODE	2012

CONTACT PERSONS DESCRIPTION: PERSON: PROJECT MANAGER DAVID LARSON MECHANICAL ENGINEER MARTY KIMBALL

	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	NEW
——AV——	
——AW——	
	COLD WATER - POTABLE
——DT——	
	SANITARY DRAINAGE (GREASE LADEN)
	GAS REGULATOR VENT
	HOT WATER - POTABLE
	HOT WATER CIRCULATING - POTABLE
	HOT WATER - POTABLE NO. INDICATED TEMP.
	HOT WATER CIRC POTABLE NO. INDICATES TEMP
	NON-POTABLE COLD WATER
	NON-POTABLE HOT WATER
	PUMPED DISCHARGE SANITARY DRAINAGE
	SOFT COLD WATER
	SOFT HOT WATER
	STORM DRAINAGE (ROOF SQUARE FOOTAGE)
	STORM DRAINAGE (SECONDARY)
V	
	VENT (STORM)
	SERVICE WATER - POTABLE
 ə	PIPE DOWN
	PIPE UP OR UP/DOWN
	PIPE SERVING FIXTURE ON FLOOR ABOVE
——o _{FD}	(EXAMPLE: FD = FLOOR DRAIN)
	UNDERFLOOR PIPING (LONG DASHES)
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
<u>RD-1</u> 6"(1000)	ROOF DRAIN PROPERTIES SYMBOL SIZE (ROOF SQ. FT.)
	NEW CONNECTION
——II——	DIELECTRIC CONNECTION
	UNION/FLANGE
───	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
<u> </u>	BALANCING VALVE (NO. INDICATES GPM)
	CHECK VALVE
b	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
	METER
	ALIGNMENT GUIDE
×	PIPE ANCHOR
	WATER HAMMER ARRESTOR
	EXPANSION JOINT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
ВТ	BATHTUB
C.C.	CIVIL CONTRACTOR
СО	CLEANOUT
CS	CLINICAL SINK
DF	DRINKING FOUNTAIN
EE	EMERGENCY EYEWASH
ES	EMERGENCY SHOWER
ESE	
EWC	
FCO	
FD	FLOOR DRAIN
FHW	
F.P.C.	
FS G C	FLOOR SINK GENERAL CONTRACTOR
G.C.	GENERAL CONTRACTOR GARBAGE DISPOSER
GD GI	GARBAGE DISPOSER GREASE INTERCEPTOR
HB	HOSE BIBB
H.C.	
I.E.	INVERT ELEVATION (FOR REFERENCE ONLY)
LAV	LAVATORY
MB	MOP BASIN
M.C.	MECHANICAL CONTRACTOR
MH	MANHOLE
MV	MIXING VALVE
NC	NEW CONNECTION
N.I.C.	NOT IN CONTRACT
NT	NEUTRALIZATION TANK
os	OIL SEPARATOR
P.C.	PLUMBING CONTRACTOR
RD	ROOF DRAIN
SH	SHOWER
SS	SERVICE SINK
TD	TRENCH DRAIN
TP	TRAP PRIMER
SK	SINK
UR	URINAL
1	VENT THROUGH ROOF
VTR	
VTR WC	WATER CLOSET
	WATER CLOSET WALL CLEANOUT
WC	
WC WCO	WALL CLEANOUT
WC WCO WF	WALL CLEANOUT WASH FOUNTAIN

PLUMBING SYMBOLS LIST

SYMBOL: DESCRIPTION:

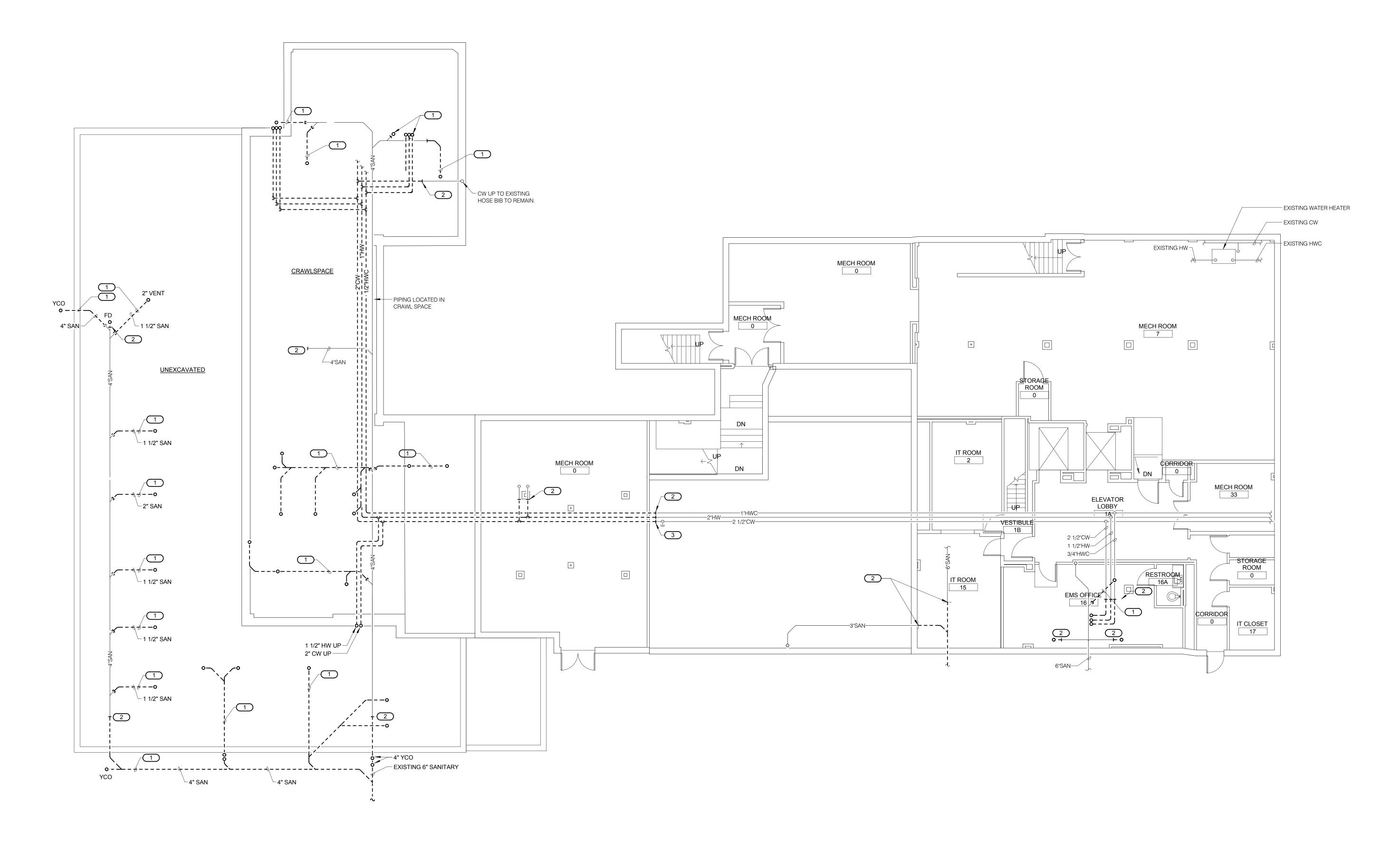
EXISTING TO REMAIN

REVISED FOR BIDDING	10/27/15	CONSULTANTS:
		HEALTHCARE PLANNERS: VOA ARCHITECTS
		MEPFP + TECH + STRUCT: KJWW CONSULTING ENGINEERS
		CIVIL ENGINEER: JD ENGINEERING
		COST ESTIMATING: MOSS CONSTRUCTION COST MANAGEMENT
Revisions:	Date	INDUSTRIAL HYGIENE: JOHN A. JURGIEL & ASSOCIATES, INC.



PLUMBING COVER SHEET	Project Title RENOVATE AND EXPAND AMBULATORY CARE AND LAB. SAM RAYBURN MEMORIAL VETERANS CENTER			Project Number 549-130 Building Number 1
Approved: Project Director	Location BONHAM, TEXAS			Drawing Number
	Date	Checked	Drawn	PL001
	APRIL 13, 2015	LOUHAM	CAD	Dwg. 86 of 14 2

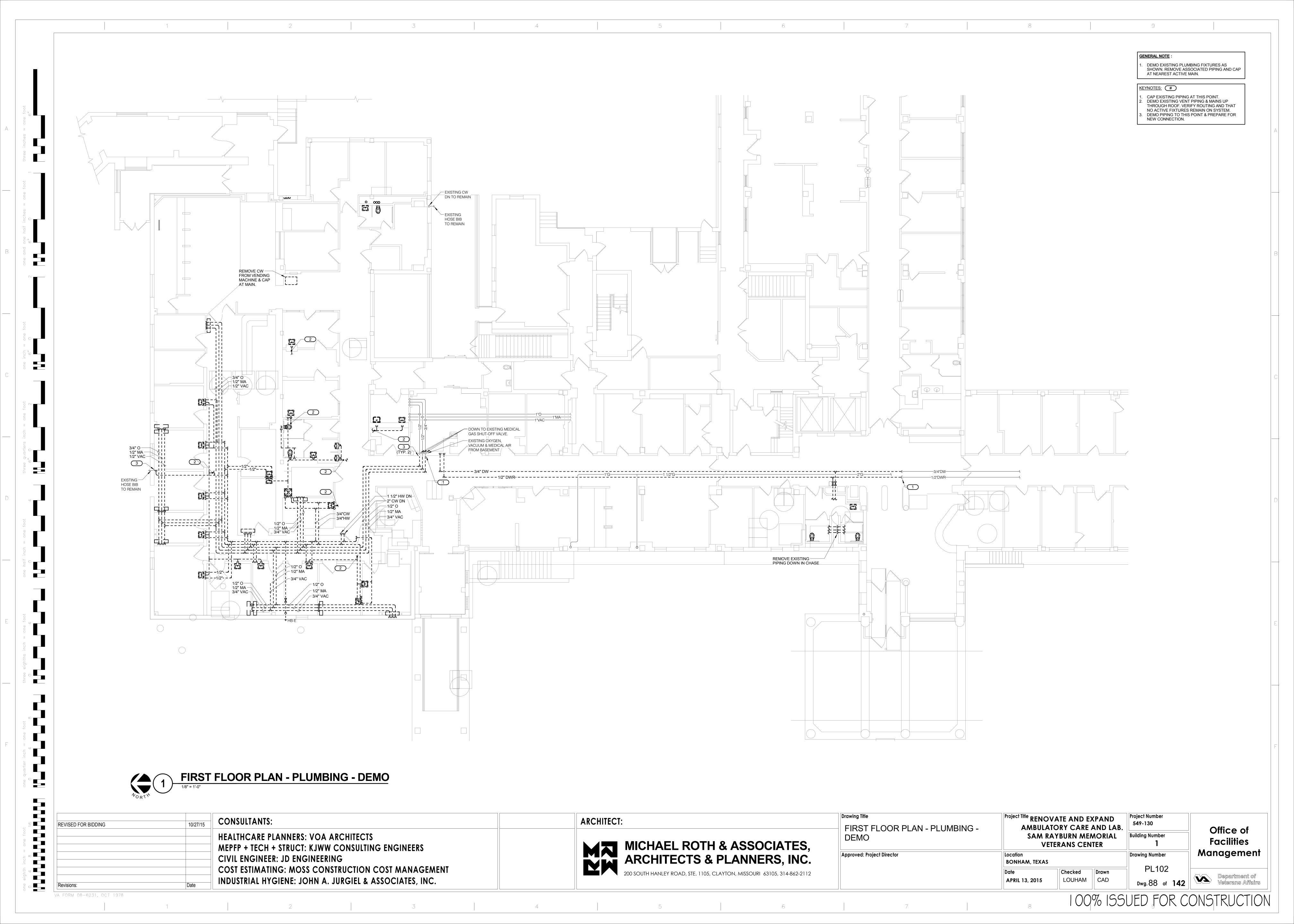
KEYNOTES: #
 REMOVE EXISTING PIPING AS SHOWN & CAP/PROVIDE FCO.
 PREPARE FOR NEW CONNECTION.
 REMOVE EXISTING PIPING AS SHOWN AND CAP.



BASEMENT FLOOR PLAN - PLUMBING - DEMO

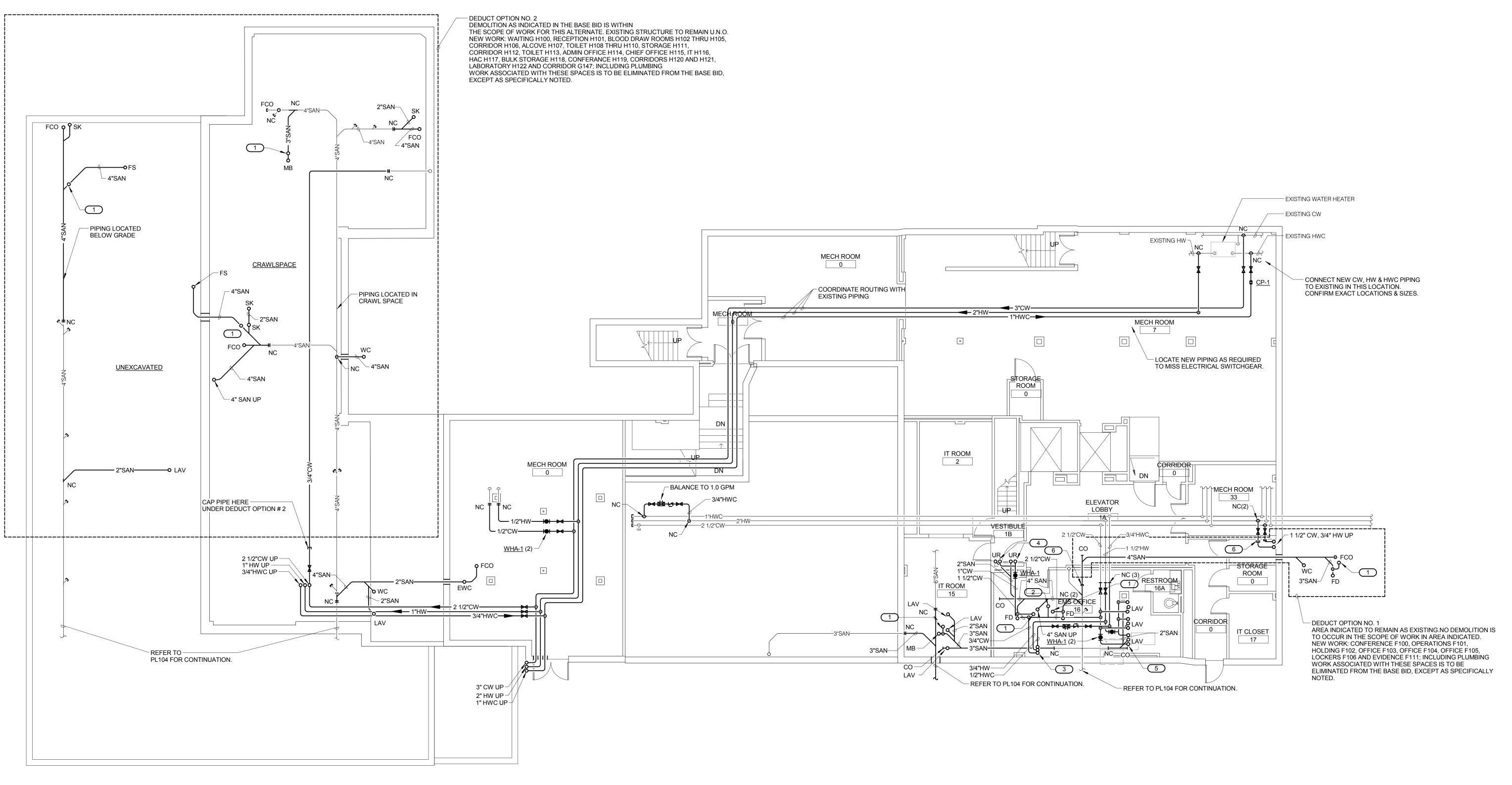
1/8" = 1'-0"

	REVISED FOR BIDDING 10/27/15	CONSULTANTS:	ARCHITECT:	Drawing Title BASEMENT FLOOR PLAN - PLUMBING	Project Title RENOVATE AND EXPAND AMBULATORY CARE AND LAB.	Project Number 549-130	Office of
		HEALTHCARE PLANNERS: VOA ARCHITECTS MEPFP + TECH + STRUCT: KJWW CONSULTING ENGINEERS	MICHAEL ROTH & ASSOCIATES.	- DEMO			Office of Facilities
S		CIVIL ENGINEER: JD ENGINEERING COST ESTIMATING: MOSS CONSTRUCTION COST MANAGEMENT	ARCHITECTS & PLANNERS, INC.	Approved: Project Director	Location BONHAM, TEXAS	Drawing Number PL101	Management
	Revisions: Date	INDUSTRIAL HYGIENE: JOHN A. JURGIEL & ASSOCIATES, INC.	200 SOUTH HANLEY ROAD, STE. 1105, CLAYTON, MISSOURI 63105, 314-862-2112		Date Checked Drawn APRIL 13, 2015 LOUHAM CAD	Dwg. 87 of 142	Department of Veterans Affairs



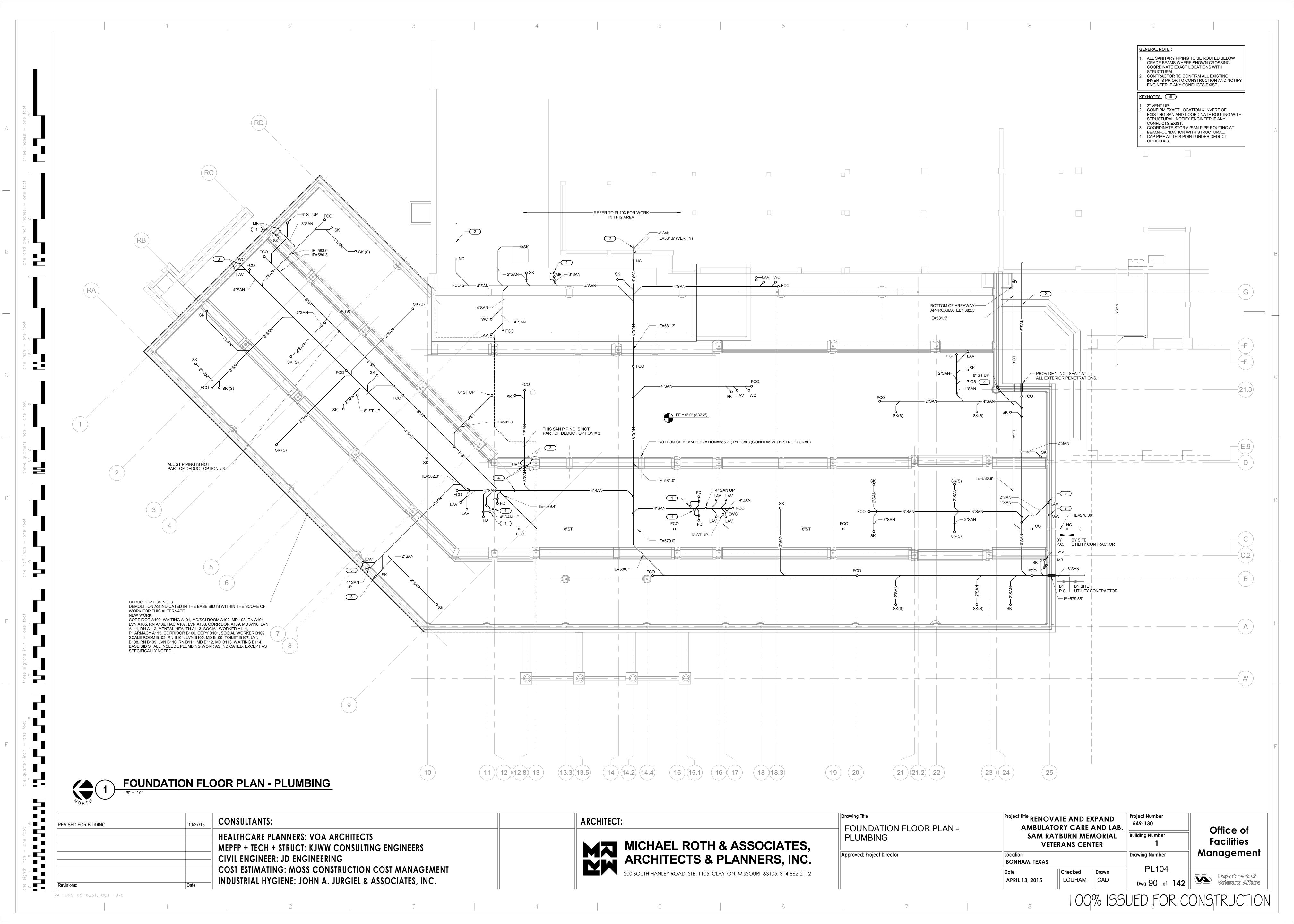
KEYNOTES: #

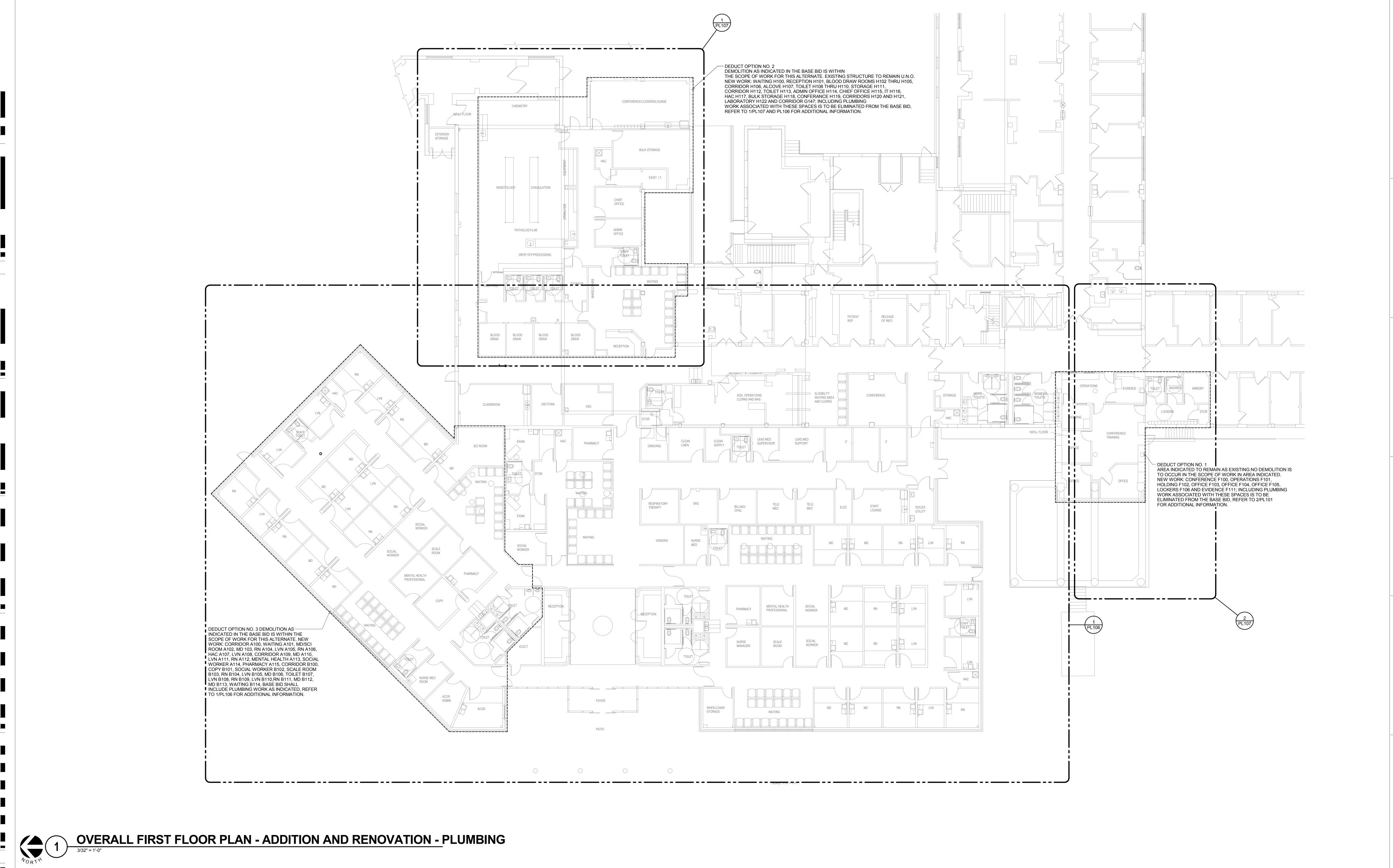
1. 2" VENT UP.
2. 2" CW UP.
3. 3/4" HW, 3/4" CW, 1/2" HWC UP.
4. 3/4" CW UP TO UR.
5. 1/2" HW AND 1/2" CW UP TO LAV. (TYP.)
6. CAP PIPE HERE UNDER DEDUCT OPTION # 1.



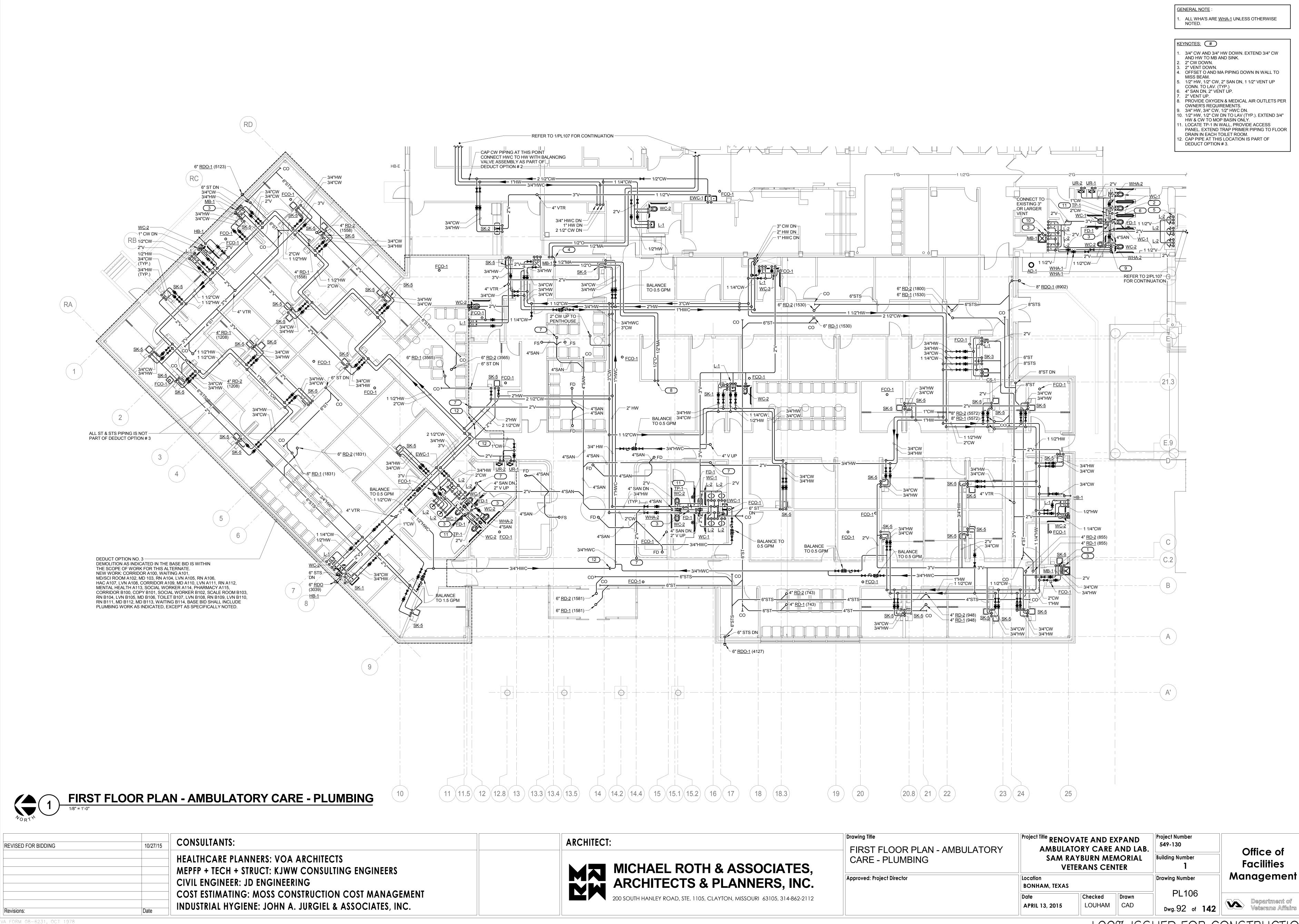


REVISED FOR BIDDING 10/27/15	CONSULTANTS:	ARCHITECT:	Drawing Title	Project Title RENOVATE AND EXPAND AMBULATORY CARE AND LAB.	Project Number 549-130	
	HEALTHCARE PLANNERS: VOA ARCHITECTS MEPFP + TECH + STRUCT: KJWW CONSULTING ENGINEERS	MICHAEL ROTH & ASSOCIATES.	BASEMENT FLOOR PLAN - PLUMBING	SAM RAYBURN MEMORIAL VETERANS CENTER	Building Number 1	Office of Facilities
	CIVIL ENGINEER: JD ENGINEERING	ARCHITECTS & PLANNERS, INC.	Approved: Project Director	Location BONHAM, TEXAS		Management
Revisions: Date	COST ESTIMATING: MOSS CONSTRUCTION COST MANAGEMENT INDUSTRIAL HYGIENE: JOHN A. JURGIEL & ASSOCIATES, INC.	200 SOUTH HANLEY ROAD, STE. 1105, CLAYTON, MISSOURI 63105, 314-862-2112		Date APRIL 13, 2015 Checked LOUHAM CAD	PL103 Dwg. 89 of 142	Department of Veterans Affairs
VA FORM 08-6231, OCT 1978				1000 166		CNICTDITICTION





REVISED FOR BIDDING 10/27/15	CONSULTANTS:	ARCHITECT:	OVERALL FIRST FLOOR PLAN -	Project Title RENOVATE AND EXPAND AMBULATORY CARE AND LAB.	Project Number 549-130	
	HEALTHCARE PLANNERS: VOA ARCHITECTS MEPFP + TECH + STRUCT: KJWW CONSULTING ENGINEERS	MICHAEL ROTH & ASSOCIATES.	ADDITION AND RENOVATION - PLUMBING		Building Number 1	Office of Facilities
	CIVIL ENGINEER: JD ENGINEERING	ARCHITECTS & PLANNERS, INC.	Approved: Project Director	Location BONHAM, TEXAS DI 10		Management
Revisions: Date	COST ESTIMATING: MOSS CONSTRUCTION COST MANAGEMENT INDUSTRIAL HYGIENE: JOHN A. JURGIEL & ASSOCIATES, INC.	200 SOUTH HANLEY ROAD, STE. 1105, CLAYTON, MISSOURI 63105, 314-862-2112		Date APRIL 13, 2015 Checked LOUHAM CAD	PL105 Dwg.91 of 142	Department of Veterans Affairs



GENERAL NOTE:

1. ALL WHA'S ARE WHA-1 UNLESS OTHERWISE

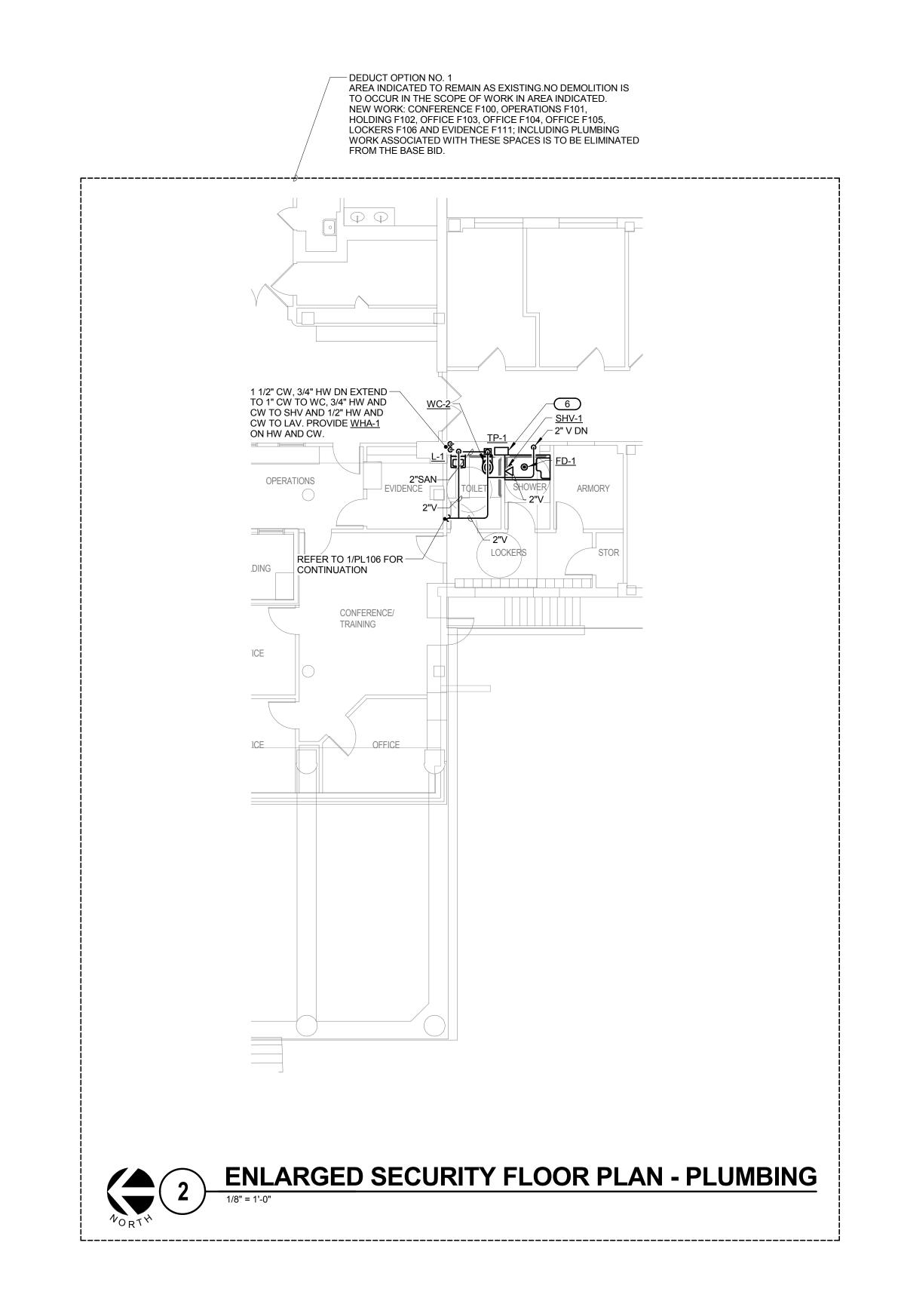
KEYNOTES: #

1" CW DN. EXTEND 1" CW TO WC & 1/2" CW TO LAV.
 1/2" HW & CW DN TO MV. EXTEND 1/2" TW TO EE.
 EXTEND 3/4" HW, 3/4" CW & 1 1/2" VENT IN CABINETRY TO SINK. COORD ROUTING WITH ARCHITECT.
 COORDINATE LOCATION OF FLOOR SINK WITH COUNTERS. REFER TO ARCH DWGS FOR EXACT

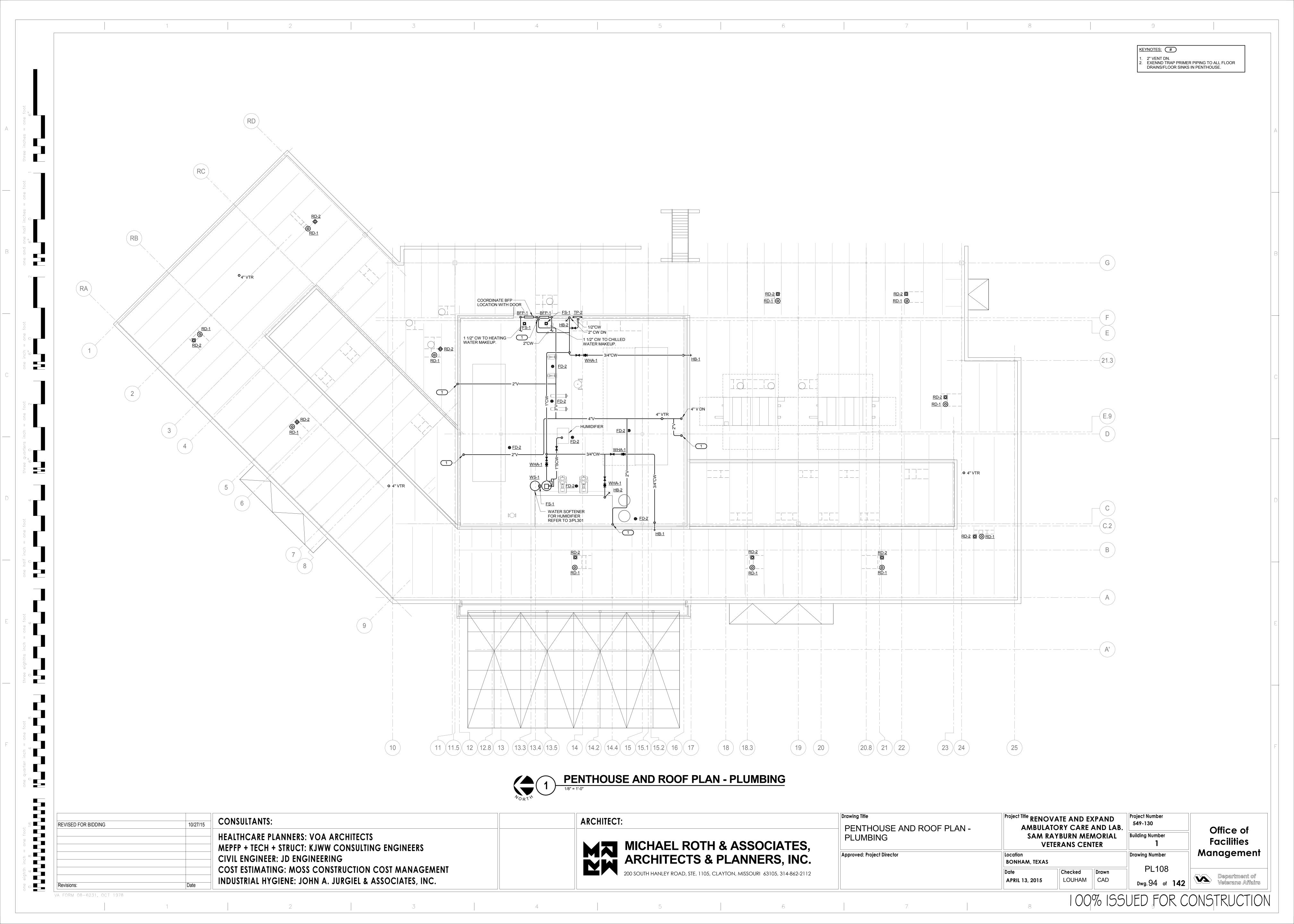
 LOCATE TP-1 IN WALL, PROVIDE ACCESS PANEL. EXTEND TRAP PRIMER PIPING TO EACH FLOOR SINK IN ROOM.
 LOCATE TP-1 IN WALL, PROVIDE ACCESS PANEL. EXTEND TRAP PRIMER PIPING TO FLOOR DRAIN.

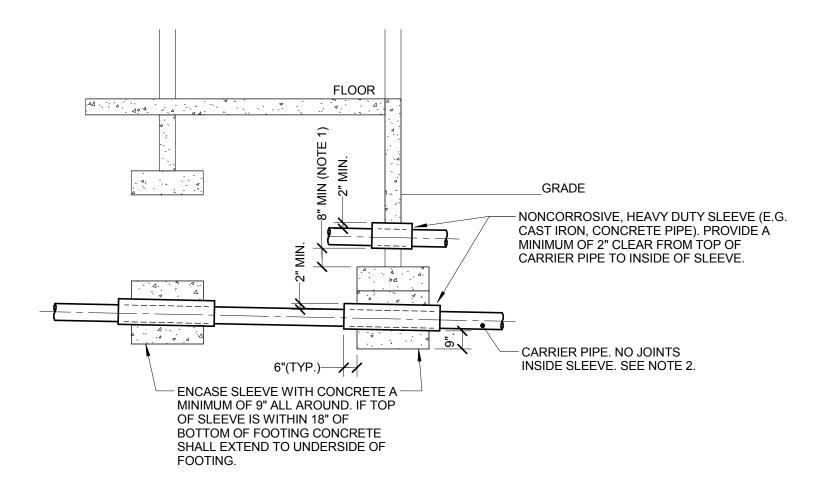
EXTEND 1 1/2" SAN & VENT TO EYE WASH FROM

DEMOLITION AS INDICATED IN THE BASE BID IS WITHIN THE SCOPE OF WORK FOR THIS ALTERNATE. EXISTING STRUCTURE TO REMAIN U.N.O. NEW WORK: WAITING H100, RECEPTION H101, BLOOD DRAW ROOMS H102 THRU H105, CORRIDOR H106, ALCOVE H107, TOILET H108 THRU H110, STORAGE H111, CORRIDOR H112, TOILET H113, ADMIN OFFICE H114, CHIEF OFFICE H115, IT H116, HAC H117, BULK STORAGE H118, CONFERANCE H119, CORRIDORS H120 AND H121, LABORATORY H122 AND CORRIDOR G147; INCLUDING STRUCTURAL, PLUMBING WORK ASSOCIATED WITH THESE SPACES IS TO BE ELIMINATED FROM THE BASE BID, EXCEPT AS SPECIFICALLY NOTED. CONFERENCE/LOCKERS/LOUNGE CHEMISTRY EXTERIOR STORAGE **BULK STORAGE** BALANCE TO 1.0 GPM COAGULATION 1/2" CW STUBOUT FOR CONN — TO LAB EQUPT BY OTHERS. INSTALL <u>VB-1</u> ON WALL. PATHOLOGY/LAB 1"CW-— 4" SAN DN, 2" V UP — 1"HW DOWN TO EXISTING — MEDICAL GAS SHUT OFF VALVE. BLOOD DRAW EXISTING OXYGEN, VACUUM & MEDICAL AIR FROM 1/2"MA REFER TO 1/PL106 FOR CONTINUATION. REFER TO 1/PL106 —— FOR CONTINUATION. - WORK IN THIS AREA NOT PART OF DEDUCT OPTION # 2. **ENLARGED LABORATORY FLOOR PLAN - PLUMBING**



REVISED FOR BIDDING 10/27/15	CONSULTANTS:	ARCHITECT:	Drawing Title ENLARGED FLOOR PLAN -	Project Title RENOVATE AND EXPAND AMBULATORY CARE AND LAB	Project Number 549-130	
	HEALTHCARE PLANNERS: VOA ARCHITECTS MEPFP + TECH + STRUCT: KJWW CONSULTING ENGINEERS	MICHAEL ROTH & ASSOCIATES.	LABORATORY AND SECURITY - PLUMBING			Office of Facilities
	CIVIL ENGINEER: JD ENGINEERING	ARCHITECTS & PLANNERS, INC.	Approved: Project Director	Location BONHAM, TEXAS	Drawing Number	Management
Revisions: Date	COST ESTIMATING: MOSS CONSTRUCTION COST MANAGEMENT INDUSTRIAL HYGIENE: JOHN A. JURGIEL & ASSOCIATES, INC.	200 SOUTH HANLEY ROAD, STE. 1105, CLAYTON, MISSOURI 63105, 314-862-2112		Date APRIL 13, 2015 Checked LOUHAM CAD	PL107 Dwg. 93 of 142	Department of Veterans Affairs





NOTES:

VA FORM 08-6231, OCT 1978

STEP FOOTING DOWN AS REQUIRED TO MAINTAIN 8" MINIMUM

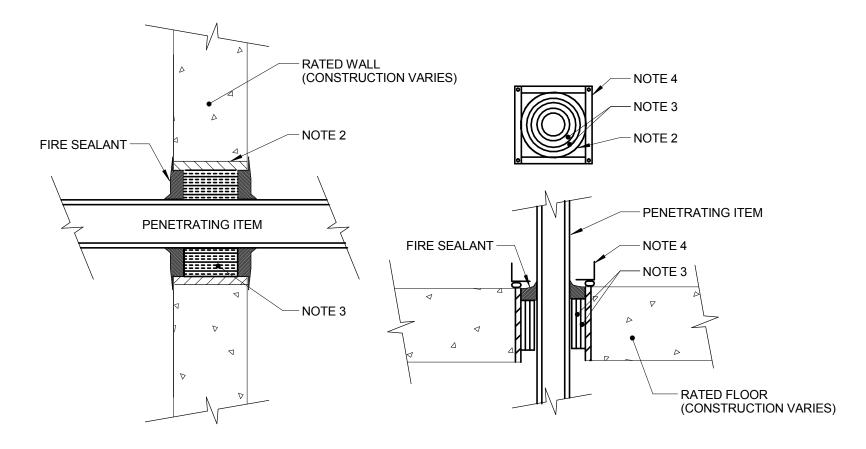
DIMENSION.

2. PROVIDE A LENGTH OF DUCTILE IRON PIPE WHERE UTILITY PASSES UNDER OR THROUGH FOOTINGS/FOUNDATION WALLS. USE PVC IF

1 PIPE UNDER FOOTING DETAIL

NOT USED

NO SCALE



NOTES:

1. THIS GENERAL DETAIL APPLIES TO ALL ITEMS PENETRATING FIRE RATED WALLS OR FLOORS. THE INTENT IS TO MAINTAIN THE FIRE RATING AND TO ALLOW LONGITUDINAL MOVEMENT. REFER TO SPECIFICATION SECTION 07840 (07 84 00) (15080) (SECTION 21 05 03 - FIRE PROTECTION, SECTION 22 05 03 - PLUMBING, SECTION 23 05 03 - HVAC) FOR SELECTION OF THROUGH PENETRATION FIRE STOPPING.

2. SCHEDULE 5 PIPE SLEEVE EMBEDDED IN WALL OR FLOOR, OR SMOOTH CORE DRILL. EACH CONTRACTOR FURNISHES SLEEVE TO G.C., COORDINATES SLEEVE LOCATIONS AND DEBURS SLEEVE. G.C. BUILDS SLEEVE INTO WALL OR FLOOR ALLOWING NO GAP

SIZE SHALL ALLOW ANNULAR SPACE REQUIRED BY THE SELECTED FIRE STOP SYSTEM.

3. INSTALL BACKING MATERIAL, SUCH AS MINERAL WOOL SAFING, AS REQUIRED FOR FIRE STOP SYSTEM. INSTALL IN ACCORDANCE WITH FIRE STOP SYSTEM APPLICATION LISTING. SECURE TO WALL OR FLOOR TO ALLOW LONGITUDINAL MOVEMENT OF PENETRATING ITEM WITHOUT MOVEMENT OF FIRE BARRIER.

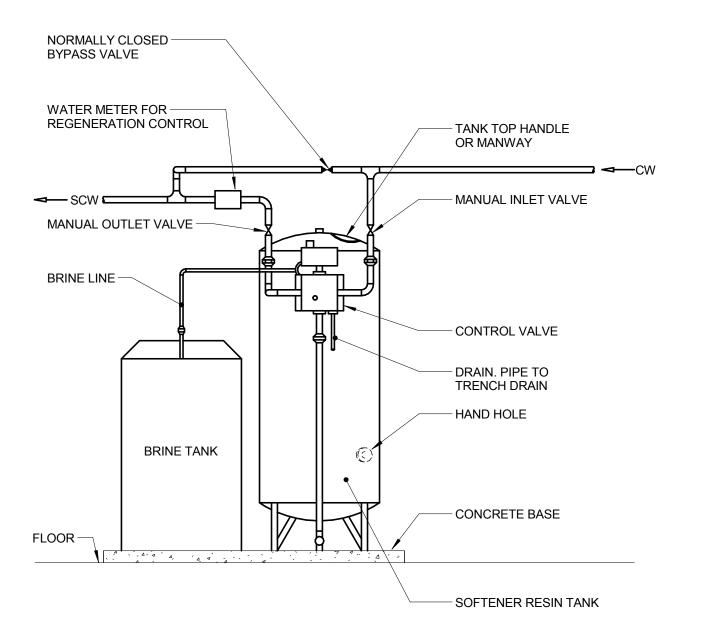
4. WATER-TIGHT WELDED 1"x1" 20 GAUGE MINIMUM GALVANIZED SHEET METAL ANGLE FRAME, BY CONTRACTOR IN EQUIPMENT ROOMS FOR WATER STOP. PLACE A BEAD OF WATERPROOF SEALANT BETWEEN FLOOR AND BOTTOM OF ANGLE FRAME.

SECURE TO FLOOR WITH MASONRY ANCHORS IN CORNERS AND ON 12" MAXIMUM CENTERS. MULTIPLE PENETRATING ITEMS MAY

BE ENCLOSED IN ONE FRAME.

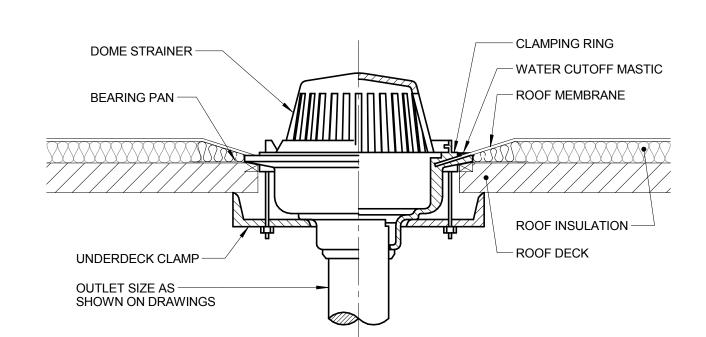
AROUND SLEEVE. IF SLEEVE IS NOT PROVIDED WHEN WALL OR FLOOR IS BUILT, CONTRACTOR SHALL INSTALL SLEEVE. SLEEVE

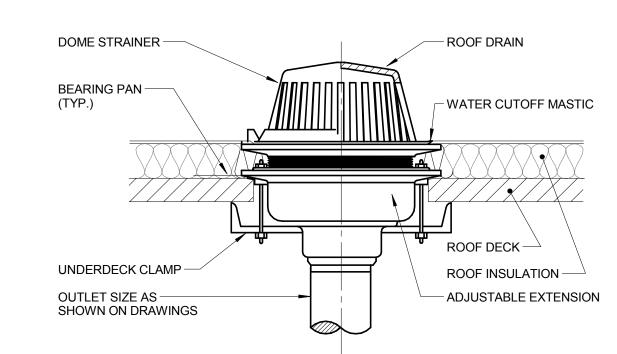
2 RATED FIRE BARRIER PENETRATION
NO SCALE



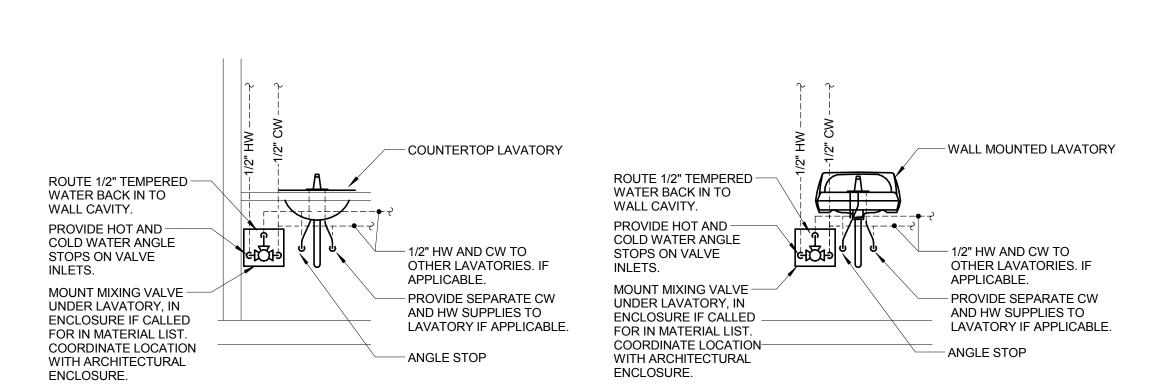
WATER SOFTENER DETAIL

NO SCALE

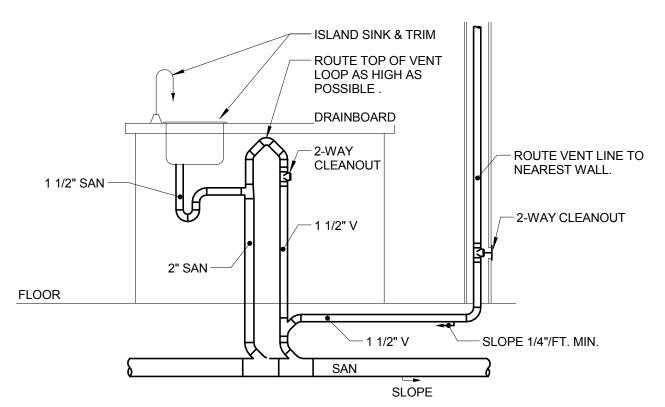




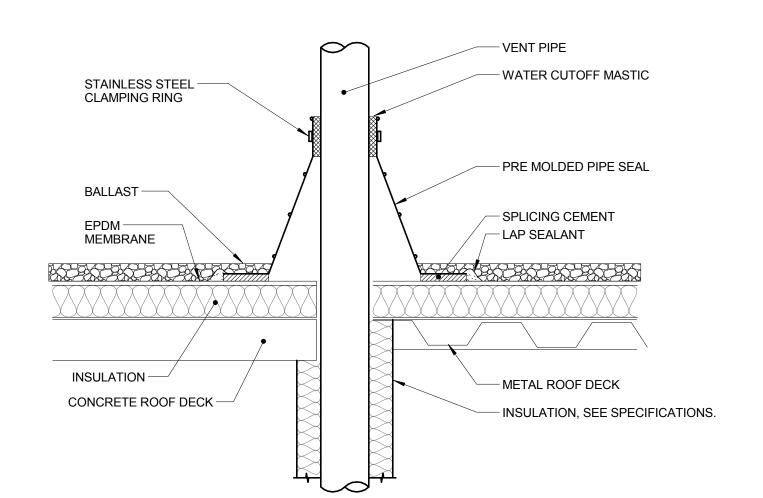
ROOF DRAIN DETAIL NO SCALE NOTE: REFER TO ARCH. ROOF PLANS FOR ADDITIONAL INSTALLATION DETAILS.



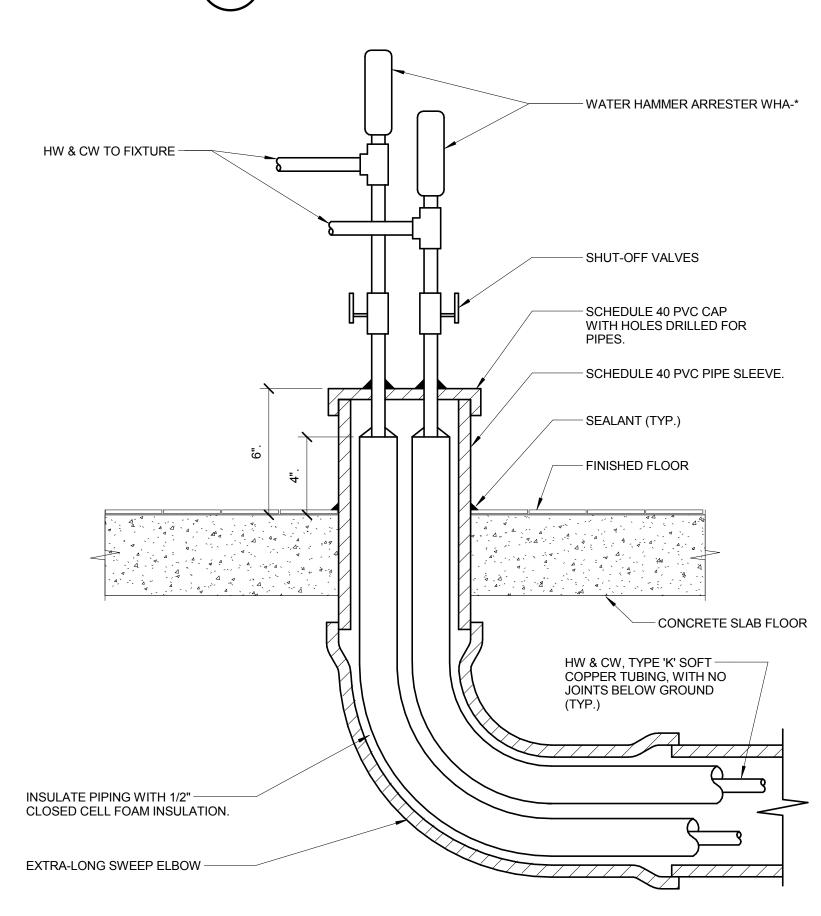
8 LAVATORY/MIXING VALVE DETAIL
NO SCALE



4 ISLAND SINK VENT DETAIL
NO SCALE



7 VENT PIPE FLASHING
NO SCALE



9 UNDERGROUND TUBING TO ISLAND FIXTURES
NO SCALE

REVISED FOR BIDDING 10/27/15	CONSULTANTS:	ARCHITECT:	Drawing Title	Project Title RENOVATE AND EXPAND AMBULATORY CARE AND LAB.	Project Number 549-130	
	HEALTHCARE PLANNERS: VOA ARCHITECTS MEPFP + TECH + STRUCT: KJWW CONSULTING ENGINEERS	MICHAEL ROTH & ASSOCIATES.	DETAILS - PLUMBING			Office of Facilities
	CIVIL ENGINEER: JD ENGINEERING COST ESTIMATING: MOSS CONSTRUCTION COST MANAGEMENT	ARCHITECTS & PLANNERS, INC.	Approved: Project Director	Location BONHAM, TEXAS	Drawing Number PL301	Management
Revisions: Date	INDUSTRIAL HYGIENE: JOHN A. JURGIEL & ASSOCIATES, INC.	200 SOUTH HANLEY ROAD, STE. 1105, CLAYTON, MISSOURI 63105, 314-862-2112		APRIL 13, 2015 Checked Drawn CAD	Dwg. 95 of 142	Department of Veterans Affairs

100% ISSUED FOR CONSTRUCTION

TAO NA 14	PLUMBING MATERIAL LIST		_
AD-1	DESCRIPTION AREA DRAIN - CAST IRON BODY, 8" BOTTOM OUTLET, 8" BRONZE DOME WITH STAINLESS STEEL MESH SCREEN,	TA	ıĊ
BFP-1	BRONZE FLASHING CLAMP. BACK FLOW PREVENTER - REDUCED PRESSURE ZONE, BRONZE OR FDA APPROVED EPOXY COATED CAST IRON CONSTRUCTION, SIZE SAME AS PIPE, NON-CORROSIVE INTERNAL PARTS, STAINLESS STEEL SPRINGS, DIFFERENTIAL PRESSURE RELIEF VALVE BETWEEN SPRING-LOADED CHECK VALVES, SHUT-OFF VALVES ON INLET AND OUTLET OF UNIT, AIR GAP DRAIN FITTING, TEST PORTS WITH SHUT-OFF VALVES, RATED FOR 175 PSI AT 33°F TO 140°F, 15 PSI (MAXIMUM) PRESSURE DROP AT 10 FPS, FACTORY TESTED, ALL PARTS TO BE SERVICEABLE WITHOUT REMOVING UNIT FROM LINE, APPROVED BY USC FCCC & HR, AWWA C511-92, ASSE 1013, IAPMO AND SBCCI LISTED.		
CP-1	MOUNT WITHIN 60" OF FINISHED FLOOR. PROVIDE AND INSTALL BRONZE OR EPOXY COATED STRAINER UPSTREAM OF EACH UNIT AND ADDITIONAL VALVE UPSTREAM OF EACH STRAINER. FLOW PRESSURE DROP CURVES SHALL BE SUBMITTED. CIRCULATING PUMP - BRONZE CONSTRUCTION, PERMANENTLY LUBRICATED SEALED BEARINGS, MECHANICAL SEAL, OIL LUBRICATED, OPEN DRIP-PROOF NON OVERLOADING MOTOR WITH THERMAL OVERLOAD		
	PROTECTION, FLANGED CONNECTIONS, RATED FOR 125 PSIG AT 225°F, UL LISTED. 5 GPM @ 32 FEET OF HEAD. MOTOR SHALL BE .4 HP		
	OPERATING AT 3250 RPM. AQUASTAT - LINE VOLTAGE, ADJUSTABLE SETTING OF 90-180°F WITH STRAP-ON REMOTE SENSOR BULB, UL LISTED. PROVIDE WITH TRANSFORMER IF REQUIRED. INSTALL PER MANUFACTURERS INSTRUCTIONS.		
CS-1	ELECTRICAL REQUIREMENTS - 115V-1 PHASE (HARD-WIRE) CLINICAL SINK - WALL MOUNTED, WHITE VITREOUS CHINA, BLOWOUT ACTION FLUSHING RIM, 1-1/2" TOP SPUD,		
	STAINLESS STEEL RIM GUARDS. FLUSH VALVE - EXPOSED, BRASS CONSTRUCTION, CHROME-PLATED FINISH, 1" I.P.S., SCREWDRIVER STOP-CHECK VALVE, CHEMICAL RESISTANT MATERIAL, WALL AND SPUD FLANGES.		
	BEDPAN WASHER - WALL MOUNTED, BRASS CONSTRUCTION, SELF-CLOSING DOUBLE FOOT CONTROL MIXING VALVE WITH INTEGRAL STOPS, OUTLET TO WALL WITH VOLUME CONTROL, HOSE WITH INSULATED HANDLE, ANGLE SPRAY NOZZLE, ELEVATED CHROME-PLATED VACUUM BREAKER. EXPOSED PIPING, FITTINGS, AND FLANGES SHALL BE CHROME-PLATED.		
	SINK FAUCET - WALL MOUNTED, BRASS CONSTRUCTION, CHROME-PLATED FINISH, ADJUSTABLE INLETS, 8" SPOUT WITH INTEGRAL 3/4" HOSE THREADED OUTLET AND VACUUM BREAKER, CHECK STOPS, QUARTER-TURN 6" WRIST BLADE HANDLES, PAIL HOOK, FORKED WALL BRACE.		
	ACCESSORIES - SUPPORT CARRIER RATED FOR 350 LBS.		
	MOUNT CLINICAL SINK WITH CARRIER MOUNTED SECURELY TO FLOOR. TOP OF RIM SHALL BE AT 20" TO 30" ABOVE FINISHED FLOOR (VERIFY EXACT MOUNTING HEIGHT WITH OWNER).		
EE-1	EMERGENCY EYE/FACE WASH - ACCESSIBLE, WALL MOUNTED, STAINLESS STEEL BOWL WITH HINGED DUST COVER, TWIN SPRAY HEADS WITH CAPS AND RETAINING CHAINS/STRAPS, BRASS SUPPLY ARMS, INTEGRAL FLOW CONTROL FITTING, BRASS PIPING AND FITTINGS WITH BRASS/BRONZE STAY OPEN BALL VALVE, 1-1/4" DRAIN OUTLET WITH CHROME PLATED BRASS TAILPIECE AND TRAP, UNIVERSAL IDENTIFICATION SIGN, ANSI Z358.1-2004 COMPLIANT.		
	MINIMUM FLOW RATE OF 3.0 GPM AT 30 PSI. ACTIVATION TIME SHALL BE 1 SECOND OR LESS. BRASS/BRONZE PIPING, FITTINGS, AND VALVES SHALL BE CHROME-PLATED OR CHEMICAL-RESISTANT POWDER COATED.		
	MOUNT WITH OUTLET HEADS AT 36" ABOVE FINISH FLOOR WITH MINIMUM 27" OF KNEE CLEARANCE BELOW, AND MINIMUM OF 19" OF CLEARANCE FROM CENTER OF BOWL TO WALL OR OBSTRUCTION. IN COMPLIANCE WITH LATEST ADA AND ANSI 117.1 STANDARDS.		
EWC-1	ELECTRIC WATER COOLER - WALL HUNG, BI-LEVEL UNITS, ADA COMPLIANT WITH APRON INSTALLED UNDER UPPER UNIT 18 GAUGE STAINLESS STEEL CABINETS AND NON-SPLASH BASINS WITH STAINLESS STEEL FINISH, STREAM PROJECTORS WITH PROTECTIVE HOODS, PUSH BAR OR LEVER OPERATING CONTROLS ON FRONT AND BOTH SIDES, BUILT-IN FLOW REGULATOR, DRAIN & TRAP ASSEMBLY, ADJUSTABLE THERMOSTAT, MOUNTING ACCESSORIES, TANK DRAIN AND ANGLE STOPS, HERMETIC COMPRESSOR TO OPERATE ON HFC-134a REFRIGERANT. COMPLIANT TO LATEST ANSI A117.1 AND ADA STANDARDS. UNIT SHALL COMPLY WITH FEDERAL ACT S.3874.		
	UNIT SHALL PROVIDE 8.0 GPH OF WATER FROM 80°F TO 50°F AT 90°F AMBIENT. WATER SYSTEM SHALL BE OF LEAD FREE CONSTRUCTION. TANK SHALL BE TESTED TO 125 PSIG.		
	ORIFICE SHALL BE OF 36" (MAXIMUM) ABOVE FINISHED FLOOR ON LOWER UNIT AND 40" ABOVE FINISHED FLOOR ON UPPER UNIT. BOTTOM OF APRON SHALL BE 27" ABOVE FLOOR ON LOWER UNIT IN COMPLIANCE WITH LATEST ADA STANDARDS.		
500.4	ELECTRICAL REQUIREMENTS - 115V-1 PHASE, CORD AND PLUG, 1/5 HP MOTOR		
FCO-1	FLOOR CLEANOUT - ADJUSTABLE, CAST IRON HOUSING, ANCHOR FLANGE, TAPERED THREAD PLUG, SECURED NICKEL BRONZE TOP. TOP STYLE SHALL MATCH FLOOR FINISH AS FOLLOWS:		
	UNFINISHED FLOOR - ROUND SOLID SCORIATED TOP TILE OR TERRAZZO - ROUND RECESSED TOP CARPET - ROUND TOP WITH CARPET MARKER.		
FD-1	FLOOR DRAIN - CAST IRON BODY, NICKEL BRONZE ADJUSTABLE TOP, 5" ROUND 3" BOTTOM OUTLET, FLASHING COLLAR, DEEP SEAL TRAP.		
FD-2	PROVIDE WITH TRAP PRIMER CONNECTION. FLOOR DRAIN - CAST IRON BODY, MEDIUM DUTY CAST/DUCTILE IRON TOP, 9" ROUND, 4" BOTTOM OUTLET, SHALLOW SUMP, FREE STANDING SEDIMENT BUCKET, FLASHING COLLAR, DEEP SEAL TRAP.		
FS-1	PROVIDE WITH TRAP PRIMER CONNECTION. FLOOR SINK - CAST IRON BODY, NICKEL BRONZE RIM AND GRATE, 8" SQUARE, 4" BOTTOM OUTLET, MEDIUM RECEPTOR WITH ALUMINUM DOME STRAINER, ACID RESISTANT COATED INTERIOR, SEEPAGE FLANGE WITH CLAMP, DEEP SEAL TRAP.		
HB-1	PROVIDE WITH TRAP PRIMER CONNECTION. HOSE BIBB - FREEZELESS WALL HYDRANT, BRASS VALVE BODY AND SEAT, STANDARD FINISH, NON-FERROUS METAL STEM, AUTOMATIC DRAINING, VACUUM BREAKER, 3/4" MALE HOSE THREAD, WALL CLAMP, CONCEALED IN FLUSH MOUNTED LOCKABLE WALL BOX, KEY OPERATED, ASSE 1019 APPROVED AND LISTED.		
	VERIFY NUMBER OF KEY OPERATORS TO BE PROVIDED WITH OWNER. BOX COVER AND HYDRANT SHALL USE A COMMON KEY. MOUNT AT 18" ABOVE GRADE UNLESS NOTED OTHERWISE ON DRAWINGS.		F
HB-2	HOSE BIBB - INDOOR WALL HYDRANT, BRASS CONSTRUCTION, STANDARD FINISH, VACUUM BREAKER, 3/4" MALE HOSE THREAD, METAL WHEEL HANDLE.		

PLUMBING MATERIAL LIST **DESCRIPTION** LAVATORY - ACCESSIBLE, WALL MOUNTED, WHITE VITREOUS CHINA, 20"x18", 4" HIGH BACKSPLASH, SINGLE FAUCET HOLE, DRILLED FOR CONCEALED ARM CARRIER. LAVATORY TRIM - SENSOR ACTIVATED MIXING FAUCET, BATTERY POWERED, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH VANDAL-RESISTANT LAMINAR FLOW OUTLET, SINGLE HOLE, INTEGRAL CHECK VALVES, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE, EXTERNAL ADJUSTABLE TEMPERATURE, FAUCET MOUNTED CONTROLS AND BATTERIES. MAXIMUM FLOW TO BE 0.5 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED. MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIO MIXING VALVE FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, THREADED INLETS, TAMPER RESISTANT SETPOINT. CABINET - SURFACE MOUNTED 18 GAUGE PAINTED STEEL CABINET WITH 16 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET STOPS, OUTLET THERMOMETER, AND OUTLET VALVES.] 0.5 GPM OUTPUT. UNIT TO MIX 120 DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET. UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874. PROGRAMMING UNIT - HAND HELD, CAPABLE OF CHANGING SETTINGS, RUNNING DIAGNOSTICS, AND SCAN FAUCETS WITH ISSUES. PROVIDE ONE CONTROLLER FOR EVERY 25 FAUCETS. INSULATION KIT - PRE-MANUFACTURED FOR P-TRAP, STOP VALVES AND SUPPLY LINES. ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY LOOSE KEY STOPS. CHROME PLATED SOFT COPPER SUPPLY LINES, DRAIN AND TAILPIECE, 1-1/4" 20 GAUGE CAST BRASS P-TRAP, WALL STUB OUT FOR DRAIN TO HAVE THREADED METAL CONNECTION, SUPPORT CARRIER. MOUNT LAVATORY WITH SUPPORT CARRIER BOLTED SECURELY TO FLOOR. TOP OF RIM SHALL BE AT 34" ABOVE FLOOR IN COMPLIANCE WITH LATEST ADA STANDARD. ARMAFLEX WITH TAPE IS NOT ACCEPTABLE IN LIEU OF INSULATION KIT. LAVATORY - PROVIDED AND INSTALLED BY OTHERS STRAINER AND TAILPIECE PROVIDED BY PLUMBING CONTRACTOR AND INSTALLED BY PLUMBING LAVATORY TRIM - SENSOR ACTIVATED MIXING FAUCET, BATTERY POWERED, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH VANDAL-RESISTANT LAMINAR FLOW OUTLET, SINGLE HOLE, INTEGRAL CHECK VALVES, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE, EXTERNAL ADJUSTABLE TEMPERATURE, FAUCET MOUNTED CONTROLS AND BATTERIES. NSULATION KIT - PRE-MANUFACTURED FOR P-TRAP, STOP VALVES AND SUPPLY LINES. MAXIMUM FLOW TO BE 0.5 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED. MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIO MIXING VALVE FOR TEMPERED WATER CONTROL. ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH. THREADED INLETS, TAMPER RESISTANT SETPOINT. CABINET - SURFACE MOUNTED 18 GAUGE PAINTED STEEL CABINET WITH 16 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET STOPS, OUTLET THERMOMETER, AND OUTLET VALVES. 0.5 GPM OUTPUT. UNIT TO MIX 120 DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET. UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874. PROGRAMMING UNIT - HAND HELD, CAPABLE OF CHANGING SETTINGS, RUNNING DIAGNOSTICS, AND SCAN FAUCETS WITH ISSUES. PROVIDE ONE CONTROLLER FOR EVERY 25 FAUCETS. ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY LOOSE KEY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES, 1-1/4" 20 GAUGE CAST BRASS P-TRAP. WALL STUB OUT FOR DRAIN TO HAVE THREADED METAL CONNECTION. MOP BASIN - NEO-ANGLE CORNER STYLE, PRECAST FERRAZZO, 36"x36"x12", 6" DEEP FRONT, STAINLESS STEEL INTEGRAL DRAIN WITH REMOVABLE STRAINER, 3" OUTLET, STAINLESS STEEL THRESHOLD. FRIM - EXPOSED TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, SINGLE WING HANDLES, 1/4 TURN CERAMIC DISC CARTRIDGE, 3/4" HOSE THREAD SPOUT WITH INTEGRAL VACUUM BREAKER, WALL BRACE, PAIL HOOK, CHECK STOPS OR INLINE CHECK VALVES TO PREVENT THERMAL CROSSOVER. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. ACCESSORIES - MOP HANGER, HOSE AND HOSE BRACKET DEEP SEAL TRAP MIXING VALVE - THERMOSTATIC MIXING VALVE FOR EMERGENCY EYEWASH OR COMBINATION EYEWASH/FACEWASH FIXTURE, BRONZE BODY CONSTRUCTION, COLD WATER BYPASS, INLET AND OUTLET THERMOMETERS, INTEGRAL CHECKSTOPS, MOUNTING BRACKET. CABINET SHALL BE SURFACE MOUNTED 18 GAUGE STAINLESS STEEL WITH 16 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET STOPS, OUTLET THERMOMETER AND OUTLET VALVES. THERMOSTATIC MIXING AND PRESSURE REGULATING VALVES TO DELIVER 3 GPM OF TEMPERED WATER (60-100 DEGREE F) WITH 10 PSI PRESSURE DIFFERENTIAL. UNIT SHALL BE ASSE 1071 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874. ROOF DRAIN - CAST IRON BODY, SECURED CAST IRON DOME, 15" ROUND, BOTTOM OUTLET, FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, BEARING PAN. ADJUSTABLE EXTENSION TO MATCH INSULATION THICKNESS, OUTLET SIZE AS LISTED ON DRAWINGS ROOF DRAIN - CAST IRON BODY, SECURED CAST IRON DOME, 15" ROUND, BOTTOM OUTLET, FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, BEARING PAN, EXTENSION TO MATCH INSULATION THICKNESS. 2" TALL INTERNAL STANDPIPE, OUTLET SIZE AS LISTED ON ROOF DRAIN OUTLET - LAMBS TONGUE DOWNSPOUT NOZZLE, BRONZE BODY, INTEGRAL ANCHORING FLANGE, OUTLET SIZE AS LISTED ON DRAWINGS.

PLUMBING MATERIAL LIST TAG NAME DESCRIPTION SHOWER VALVE - ACCESSIBLE, SINGLE HANDLE PRESSURE BALANCED MIXING FAUCET, BRASS OR BRONZE CONSTRUCTION, WASHERLESS DESIGN, OFF-COLD-HOT TEMPERATURE RANGE INDICATOR DIAL POLISHED CHROME CAST METAL LEVER HANDLE. INTEGRAL CHECK STOPS, ADJUSTABLE TEMPERATURE LIMIT STOP. ASSE 1016 LISTED. ACCESSORIES - ADJUSTABLE SPRAY HAND HELD SHOWER WITH 1.5 GPM FLOW AND 60" CHROME-PLATED METAL HOSE AND QUICK DISCONNECT, CHROME-PLATED BRASS SHOWERHEAD WITH SWIVEL BALL JOINT ADJUSTABLE SPRAY, CHROME-PLATED BRASS ARM AND FLANGE, CHROME-PLATED BRASS SWIVEL CONNECTOR 24' CHROME-PLATED MOUNTING RAIL, CHROME-PLATED BRASS SUPPLY ELBOW FLANGE, CHROME-PLATED IN-LINE VACUUM BREAKER WITH CHROME-PLATED PIPING AND FLANGES, CHROME-PLATED BRASS DIVERTER. MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIO MIXING VALVE ARRANGEMENT FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, UNION/THREADED INLETS WITH CHECK STOPS/STRAINERS. CABINET - SURFACE MOUNTED 18 GAUGE PAINTED STEEL CABINET WITH 16 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET STOPS, OUTLET THERMOMETER, AND OUTLET VALVES. RATED FOR 1.5 GPM OUTPUT MAXIMUM AND 0.5 GPM OUTPUT MINIMUM. UNIT TO MIX 120 DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET. UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874. INSTALL ALL CONTROLS BETWEEN 38" AND 48" ABOVE FINISHED FLOOR IN COMPLIANCE WITH LATEST ADA STANDARDS. INSTALL BOTTOM OF SHOWERHEAD AT 72" ABOVE FINISHED FLOOR. MAXIMUM FLOW TO BE 2.5 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M SET SAFETY LIMIT STOP TO 110 DEGREE F DISCHARGE. SINK - SELF-RIMMING SINGLE COMPARTMENT WITH FAUCET DECK AND OVERFLOW, 18 GAUGE TYPE 304 STAINLESS STEEL, 15" (SIDE-TO-SIDE) x 17-1/2" (FRONT-TO-BACK) OVERALL SIZE, 12" x 12" x 7-5/8" DEEP BOWL, COMPLETELY UNDERCOATED, 3-1/2" DIAMETER DRAIN OUTLET LOCATION OFF-CENTERED REAR IN BOWL, REMOVABLE TYPE 304 STAINLESS STEEL BASKET STRAINER WITH NEOPRENE STOPPER. SINK TRIM - SENSOR ACTIVATED MIXING FAUCET, BATTERY POWERED, BRASS CONSTRUCTION, CHROME-PLATED FINISH, DECK MOUNTED, SWING GOOSENECK SPOUT WITH NOMINAL 8" REACH AND AERATOR, SINGLE HOLE, SOLID BRASS SOLENOID WITH BUILT-IN FILTER, SOLID BRASS THERMOSTATIC MIXING VALVE MEETING ASSE 1070 REQUIREMENTS WITH ADJUSTABLE TEMPERATURE LIMIT STOP AND INTEGRAL CHECK VALVES, WATERPROOF CONNECTORS AND CABLE. MOUNT CONTROLS AND BATTERIES IN WATERPROOF VANDAL-RESISTANT ENCLOSURE BELOW SINK OR ABOVE DECK IN FAUCET BASE. MAXIMUM FLOW TO BE 1.5 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AS REQUIRED MOUNT MIXING VALVE UNDER COUNTER/SINK. MIXING VALVE SHALL NOT BE WYE PATTERN STYLE. PROGRAMMING UNIT - HAND HELD, CAPABLE OF CHANGING SETTINGS, RUNNING DIAGNOSTICS, AND SCAN FAUCETS WITH ISSUES. PROVIDE ONE CONTROLLER FOR EVERY 50FAUCETS. MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATION MIXING VALVE ARRANGEMENT FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, UNION/THREADED INLETS WITH CHECK STOPS/STRAINERS. CABINET - SURFACE MOUNTED 18 GAUGE PAINTED STEEL CABINET WITH 16 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET STOPS, OUTLET THERMOMETER, AND OUTLET VALVES. RATED FOR 1.5 GPM OUTPUT MAXIMUM AND 0.5 GPM OUTPUT MINIMUM. UNIT TO MIX 120 DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET. UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874. ACCESSORIES - 1-1/2" 17 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, WALL STUB OUT FOR DRAIN TO HAVE THREADED METAL CONNECTION, QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES. SINK - ACCESSIBLE, SELF-RIMMING DOUBLE COMPARTMENT WITH FAUCET DECK AND OVERFLOW IN EACH BOWL, 18 GAUGE TYPE 304 STAINLESS STEEL, COMPLETELY UNDERCOATED, 33" (SIDE-TO-SIDE) x 22" (FRONT-TO-BACK) OVERALL SIZE, EACH COMPARTMENT 13-1/2" x 16" x 8" DEEP, 3-1/2" DIAMETER DRAIN OUTLET LOCATION OFF-CENTERED REAR IN EACH BOWL, REMOVABLE TYPE 304 STAINLESS STEEL BASKET STRAINERS WITH NEOPRENE STOPPERS. SINK TRIM - SINGLE HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, NOMINAL 10" HIGH-RISE SWING SPOUT, CERAMIC CARTRIDGE, NOMINAL 8" REACH, AERATOR, LEVER HANDLE, SPRAY HOSE WITH LEVER CONTROL. MAXIMUM FLOW TO BE 2.2 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M.FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED. MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIC MIXING VALVE ARRANGEMENT FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, UNION/THREADED INLETS WITH CHECK STOPS/STRAINERS. CABINET - SURFACE MOUNTED 18 GAUGE PAINTED STEEL CABINET WITH 16 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET STOPS, OUTLET THERMOMETER, AND OUTLET VALVES. RATED FOR 1.5 GPM OUTPUT MAXIMUM AND 0.5 GPM OUTPUT MINIMUM. UNIT TO MIX 120 DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET. UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874. ACCESSORIES - OFFSET 1-1/2" 17 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, WALL STUB OUT FOR DRAIN TO HAVE THREADED METAL CONNECTION. QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED

PLUMBING MATERIAL LIST DESCRIPTION SINK - SELF-RIMMING SINGLE COMPARTMENT WITH FAUCET DECK AND OVERFLOW, 18 GAUGE TYPE 304 STAINLESS STEEL, 25" (SIDE-TO-SIDE) x 22" BOWL. COMPLETELY UNDERCOATED. 3-1/2" DIAMETER REMOVABLE TYPE 304 STAINLESS STEEL BASKET STRAINER WITH NEOPRENE STOPPER. SINK TRIM - SINGLE HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, NOMINAL 10" LEVER CONTROL. MAXIMUM FLOW TO BE 2.2 GPM IN COMPLIANCE WITH A112.18.1M.FAUCET SHALL COMPLY WITH FEDERAL ACT PLATE AS REQUIRED. MIXING VALVE ARRANGEMENT FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, UNION/THREADED INLETS WITH CHECK STOPS/STRAINERS. CABINET WITH 16 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET STOPS, OUTLET THERMOMETER, AND OUTLET VALVES. RATED FOR 1.5 GPM OUTPUT MAXIMUM AND 0.5 GPM DEGREE F OUTLET. SHALL COMPLY WITH FEDERAL ACT S.3874. BRASS TAILPIECE AND P-TRAP, WALL STUB OUT FOR DRAIN TO HAVE THREADED METAL CONNECTION, BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES. SINK - ACCESSIBLE, SELF-RIMMING DOUBLE COMPARTMENT WITH FAUCET DECK AND OVERFLOW IN EACH BOWL, 18 GAUGE TYPE 304 STAINLESS STEEL, COMPLETELY UNDERCOATED, 25" (SIDE-TO-SIDE) x 22" x 15-3/4" x 5-1/2" DEEP, 3-1/2" DIAMETER DRAIN OUTLET LOCATION OFF-CENTERED REAR IN EACH BOWL, REMOVABLE TYPE 304 STAINLESS STEEL BASKET STRAINERS WITH NEOPRENE STOPPERS. SINK TRIM - SINGLE HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, NOMINAL 10" LEVER CONTROL. MAXIMUM FLOW TO BE 2.2 GPM IN COMPLIANCE WITH A112.18.1M.FAUCET SHALL COMPLY WITH FEDERAL ACT PLATE AS REQUIRED. MIXING VALVE ARRANGEMENT FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, UNION/THREADED INLETS WITH CHECK STOPS/STRAINERS. CABINET WITH 16 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET STOPS, OUTLET THERMOMETER, AND OUTLET VALVES. RATED FOR 1.5 GPM OUTPUT MAXIMUM AND 0.5 GPM DEGREE F OUTLET. SHALL COMPLY WITH FEDERAL ACT S.3874. BRASS TAILPIECE AND P-TRAP, WALL STUB OUT FOR DRAIN TO HAVE THREADED METAL CONNECTION, BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES. SINK - SELF-RIMMING SINGLE COMPARTMENT WITH FAUCET DECK AND OVERFLOW, 18 GAUGE TYPE 304 STAINLESS STEEL. 17" (SIDE-TO-SIDE) x 20" (FRONT-TO-BACK) OVERALL SIZE, 14" x 14" x 7-5/8" DEEP BOWL, COMPLETELY UNDERCOATED, 3-1/2" DIAMETER REMOVABLE TYPE 304 STAINLESS STEEL BASKET STRAINER WITH NEOPRENE STOPPER. POWERED, BRASS CONSTRUCTION, CHROME-PLATED NOMINAL 8" REACH AND AERATOR, SINGLE HOLE, SOLID BRASS SOLENOID WITH BUILT-IN FILTER, SOLID BRASS THERMOSTATIC MIXING VALVE MEETING ASSE 1070 REQUIREMENTS WITH ADJUSTABLE TEMPERATURE LIMIT STOP AND INTEGRAL CHECK VALVES, WATERPROOF CONNECTORS AND CABLE. MOUNT CONTROLS AND BATTERIES IN WATERPROOF DECK IN FAUCET BASE. MAXIMUM FLOW TO BE 1.5 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AS REQUIRED. MOUNT MIXING VALVE UNDER COUNTER/SINK. MIXING VALVE ARRANGEMENT FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, UNION/THREADED INLETS WITH CHECK STOPS/STRAINERS. CABINET WITH 16 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET STOPS, OUTLET THERMOMETER, AND OUTLET VALVES. RATED FOR 1.5 GPM OUTPUT MAXIMUM AND 0.5 GPM DEGREE F OUTLET. SHALL COMPLY WITH FEDERAL ACT S.3874. BRASS TAILPIECE AND P-TRAP, WALL STUB OUT FOR DRAIN TO HAVE THREADED METAL CONNECTION, BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS. CHROME-PLATED SOFT COPPER SUPPLY LINES. TRAP PRIMER - PRESSURE DROP ACTIVATED, 1/2" MALE REMOVABLE FILTER SCREEN, ASSE 1018 LISTED. REQUIRES NO ADJUSTMENTS OR PRE-CHARGE. TO SERVE 2 TRAPS.

DESCRIPTION TRAP PRIMER - ELECTRONIC SOLENOID ACTIVATED. SURFACE MOUNTED, MANUAL OVERRIDE, 3/4" FNPT INLET AND 1/2" COMPRESSION OUTLET, BUILT-IN VACUUM (FRONT-TO-BACK) OVERALL SIZE, 21" x 15-3/4" x 8-1/8" DEEP BREAKER, CAPABLE OF SERVING 4 TO 30 TRAPS. ELECTRICAL REQUIREMENTS - 120VAC, 3-WIRE DRAIN OUTLET LOCATION OFF-CENTERED REAR IN BOWL, CONNECTION URINAL - WALL MOUNTED, WHITE VITREOUS CHINA, FLUSI VALVE TYPE, WASHOUT ACTION, LOW CONSUMPTION, ELONGATED RIM, EXTENDED SIDE SHIELDS, 3/4" TOP SPUD, 2" OUTLET. HIGH-RISE SWING SPOUT, CERAMIC CARTRIDGE, NOMINAL 8" REACH, AERATOR, LEVER HANDLE, SPRAY HOSE WITH FLUSH VALVE - FLUSH VALVE - EXPOSED. SENSOR OPERATION, BATTERY POWERED, 1.0 GALLONS PER FLUSH, 11-1/2" ROUGH-IN, CHROME-PLATED, 3/4" I.P.S. SCREWDRIVER STOP-CHECK VALVE WITH VANDAL ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD RESISTANT CAP, HIGH BACK PRESSURE VACUUM BREAKER, NON-HOLD-OPEN HANDLE, ADJUSTABLE S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON TAILPIECE, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, MANUAL OVER-RIDE, LOW BATTERY INDICATOR LIGHT, RANGE ADJUSTMENT SCREW, BEAM MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIO DEFLECTOR, CHLORAMINE RESISTANT MATERIALS, 3-YEAR CONTRACTOR OPTION: COMBINATION URINAL/FLUSH VALVE PACKAGED SYSTEM BY AMERICAN STANDARD, CABINET - SURFACE MOUNTED 18 GAUGE PAINTED STEEL ACCESSORIES - SUPPORT CARRIER WITH TOP AND BOTTOM BEARING PLATES. MOUNT WITH CARRIER BOLTED SECURELY TO FLOOR. TO OF BOWL RIM SHALL BE AT 22" ABOVE FLOOR. VERIFY OUTPUT MINIMUM. UNIT TO MIX 120 DEGREE F HOT WATER EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS. SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 URINAL - ACCESSIBLE, WALL MOUNTED, WHITE VITREOUS CHINA, FLUSH VALVE TYPE, WASHOUT ACTION, LOW UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE CONSUMPTION, ELONGATED RIM, EXTENDED SIDE SHIELDS, 3/4" TOP SPUD, 2" OUTLET. ACCESSORIES - OFFSET 1-1/2" 17 GAUGE CHROME-PLATED FLUSH VALVE - FLUSH VALVE - EXPOSED. SENSOR OPERATION, BATTERY POWERED, 1.0 GALLONS PER FLUSH, 11-1/2" ROUGH-IN, CHROME-PLATED, 3/4" I.P.S. QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED SCREWDRIVER STOP-CHECK VALVE WITH VANDAL RESISTANT CAP, HIGH BACK PRESSURE VACUUM BREAKER, NON-HOLD-OPEN HANDLE, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, MANUAL OVER-RIDE, LOW BATTERY INDICATOR LIGHT, RANGE ADJUSTMENT SCREW, BEAM DEFLECTOR, CHLORAMINE RESISTANT MATERIALS, 3-YEAR (FRONT-TO-BACK) OVERALL SIZE, EACH COMPARTMENT 21 CONTRACTOR OPTION: COMBINATION URINAL/FLUSH VALVE PACKAGED SYSTEM BY AMERICAN STANDARD, SLOAN, OR ZURN ACCESSORIES - SUPPORT CARRIER WITH TOP AND BOTTOM BEARING PLATES. MOUNT WITH CARRIER BOLTED SECURELY TO FLOOR. TO HIGH-RISE SWING SPOUT, CERAMIC CARTRIDGE, NOMINAL OF BOWL RIM SHALL BE AT 17" (MAXIMUM) ABOVE FLOOR 8" REACH, AERATOR, LEVER HANDLE, SPRAY HOSE WITH IN COMPLIANCE WITH LATEST ADA STANDARDS. VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS. VACUUM BREAKER - HEALTH HAZARD TYPE, ANTI-SIPHON ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD SPILL-RESISTANT, BRONZE CONSTRUCTION, STAINLESS S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON STEEL SPRINGS, SIZE AS NOTED ON DRAWINGS, TEE HANDLE BALL VALVES. MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIO RATED FOR 150 PSI AT 33°F TO 180°F. 13 GPM (MAXIMUM) A 10 PSI PRESSURE DROP. MOUNT AT 6" MINIMUM ABOVE FLOOD RIM OF FIXTURE. INSTALL PER MANUFACTURERS RECOMMENDATIONS. WATER CLOSET - WALL MOUNTED, FLUSH VALVE TYPE, CABINET - SURFACE MOUNTED 18 GAUGE PAINTED STEEL WHITE VITREOUS CHINA, SIPHON JET, WATER SAVING, ELONGATED BOWL, 1-1/2" TOP SPUD. FLUSH VALVE - EXPOSED, SENSOR OPERATION, BATTERY POWERED, 1.6 GALLONS PER FLUSH, 11-1/2" ROUGH-IN, CHROME PLATED, 1" I.P.S. SCREWDRIVER STOP-CHECK OUTPUT MINIMUM. UNIT TO MIX 120 DEGREE F HOT WATER VALVE WITH VANDAL RESISTANT CAP, HIGH BACK SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 PRESSURE VACUUM BREAKER, ADJUSTABLE TAILPIECE SPUD COUPLING AND FLANGE, MECHANICAL OVER-RIDE BUTTON, WALL FLANGE WITH SET SCREW, CHLORAMINE UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE RESISTANT MATERIALS, ADA COMPLIANT, 3 YEAR ACCESSORIES - OFFSET 1-1/2" 17 GAUGE CHROME-PLATED SEAT - WHITE. EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID ANTI-MICROBIAL PLASTIC, SELF-SUSTAINING HINGE, STAINLESS STEEL OR PLATED QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED STEEL POSTS AND NUTS. CONTRACTOR OPTION: COMBINATION WATER CLOSET/FLUSH VALVE PACKAGED SYSTEM. ACCESSORIES - WATER CLOSET SUPPORT CARRIER RATED FOR 500 LBS. MOUNT WATER CLOSET WITH CARRIER BOLTED SECUREL TO FLOOR. TOP OF SEAT SHALL BE AT 16"-17" ABOVE DRAIN OUTLET LOCATION OFF-CENTERED REAR IN BOWL, FINISHED FLOOR (VERIFY EXACT MOUNTING HEIGHT WITH MANUFACTURER). VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS. SINK TRIM - SENSOR ACTIVATED MIXING FAUCET, BATTERY WATER CLOSET - ACCESSIBLE, WALL MOUNTED, FLUSH VALVE TYPE, WHITE VITREOUS CHINA, SIPHON JET, WATER FINISH, DECK MOUNTED, RIGID GOOSENECK SPOUT WITH SAVING, ELONGATED BOWL, 1-1/2" TOP SPUD. FLUSH VALVE - EXPOSED, SENSOR OPERATION, BATTERY POWERED, 1.6 GALLONS PER FLUSH, 11-1/2" ROUGH-IN, CHROME PLATED, 1" I.P.S. SCREWDRIVER STOP-CHECK VALVE WITH VANDAL RESISTANT CAP, HIGH BACK PRESSURE VACUUM BREAKER, ADJUSTABLE TAILPIECE SPUD COUPLING AND FLANGE, MECHANICAL OVER-RIDE BUTTON, WALL FLANGE WITH SET SCREW, CHLORAMINE VANDAL-RESISTANT ENCLOSURE BELOW SINK OR ABOVE RESISTANT MATERIALS, ADA COMPLIANT, 3 YEAR SEAT - WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID ANTI-MICROBIAL PLASTIC, CHECK HINGE. STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS. CONTRACTOR OPTION: COMBINATION WATER CLOSET/FLUSH VALVE PACKAGED SYSTEM. MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIO ACCESSORIES - WATER CLOSET SUPPORT CARRIER RATED FOR 500 LBS. MOUNT WATER CLOSET WITH CARRIER BOLTED SECUREL TO FLOOR. TOP OF SEAT SHALL BE AT 17"-19" ABOVE CABINET - SURFACE MOUNTED 18 GAUGE PAINTED STEEL FINISHED FLOOR (VERIFY EXACT MOUNTING HEIGHT WITH MANUFACTURER). VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS. WATER HAMMER ARRESTER - BELLOWS TYPE, OUTPUT MINIMUM. UNIT TO MIX 120 DEGREE F HOT WATER PRE-CHARGED, ALL STAINLESS STEEL CONSTRUCTION, SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 ASSE 1010 APPROVED, PDI CERTIFIED, RATED FOR 1-11 WHA-2 WATER HAMMER ARRESTER - BELLOWS TYPE, UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE PRE-CHARGED, ALL STAINLESS STEEL CONSTRUCTION, ASSE 1010 APPROVED, PDI CERTIFIED, RATED FOR 12-32 FIXTURE UNITS. ACCESSORIES - OFFSET 1-1/2" 17 GAUGE CHROME-PLATED WATER SOFTENER - AUTOMATIC REGENERATION TYPE. SIMPLEX SOFTENER TANKS, POWER SUPPLY WITH CORD AND PLUG. CONTINUOUS FLOW RATE OF 3.0 GPM AT 15 PS QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED PRESSURE DROP, MAXIMUM FLOW RATE OF 5.0 GPM AT 25 PSI PRESSURE DROP. ELECTRICAL REQUIREMENTS -120V-1 PHASE RECEPTACLE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. YARD CLEANOUT - ROUND, DURA-COATED CAST IRON. NPT INLET AND 1/2" FEMALE NPT OUTLET, BUILT-IN AIRGAP, SIZE AS LISTED ON DRAWINGS, DOUBLE FLANGED HOUSING, HEAVY DUTY SECURED SCORIATED DURA-COATED CAST IRON COVER, LIFTING DEVICE. BRONZE CLEANOUT PLUG WITH GAS/WATER-TIGHT SEAL. DISTRIBUTION SYSTEM - TRAP PRIMER DISTRIBUTION UNIT

PLUMBING MATERIAL LIST

PLUMBING MATERIAL LIST GENERAL NOTES THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO TH CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES. ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S.3874

CONSULTANTS: VISED FOR BIDDING INDUSTRIAL HYGIENE: JOHN A. JURGIEL & ASSOCIATES, INC.

/A FORM 08-6231, OCT 1978

HEALTHCARE PLANNERS: VOA ARCHITECTS MEPFP + TECH + STRUCT: KJWW CONSULTING ENGINEERS CIVIL ENGINEER: JD ENGINEERING COST ESTIMATING: MOSS CONSTRUCTION COST MANAGEMENT



ARCHITECT:

BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS.

CHROME-PLATED SOFT COPPER SUPPLY LINES.

MICHAEL ROTH & ASSOCIATES, **ARCHITECTS & PLANNERS, INC.**

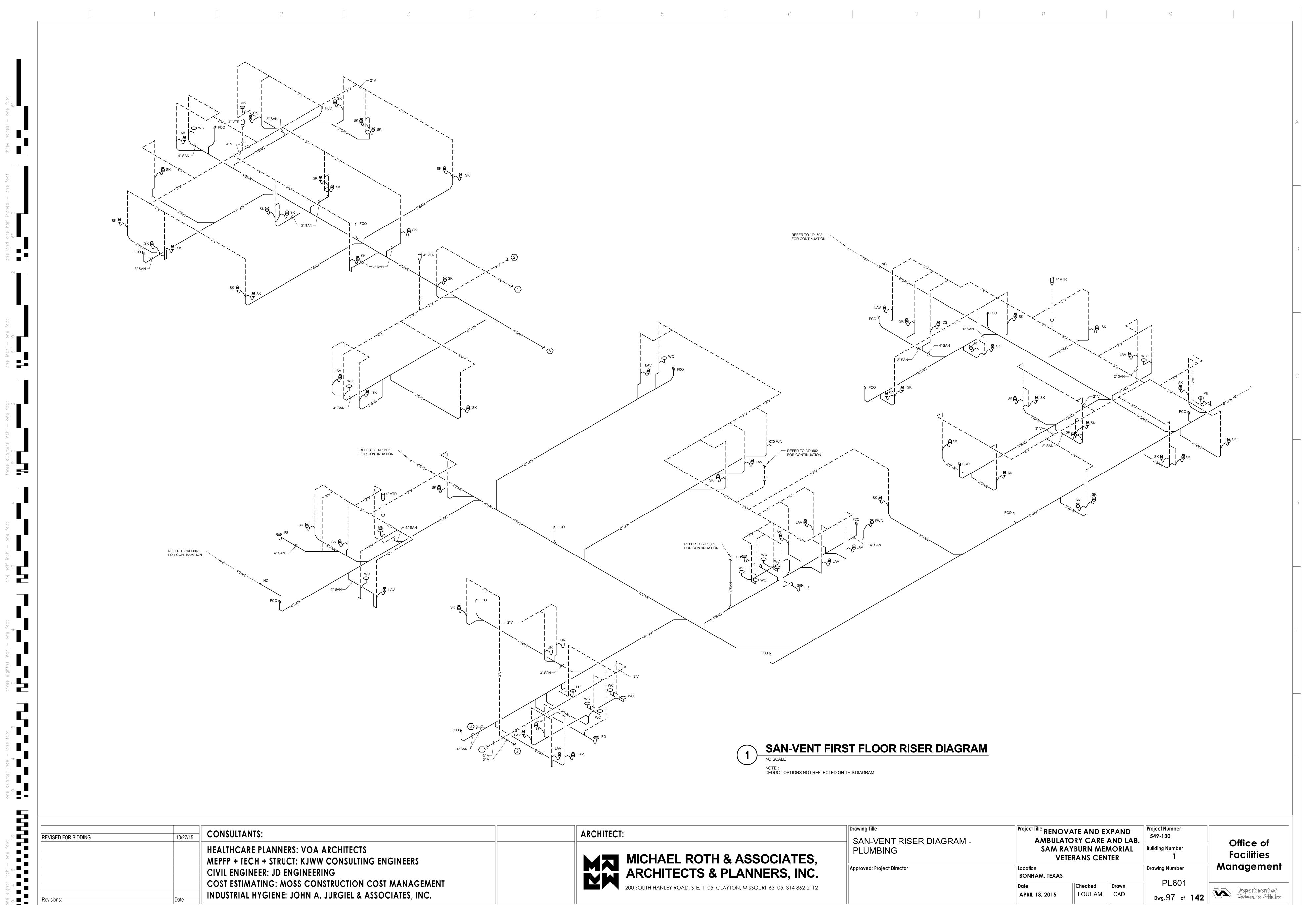
PLUMBING MATERIAL LIST **Approved: Project Directo**

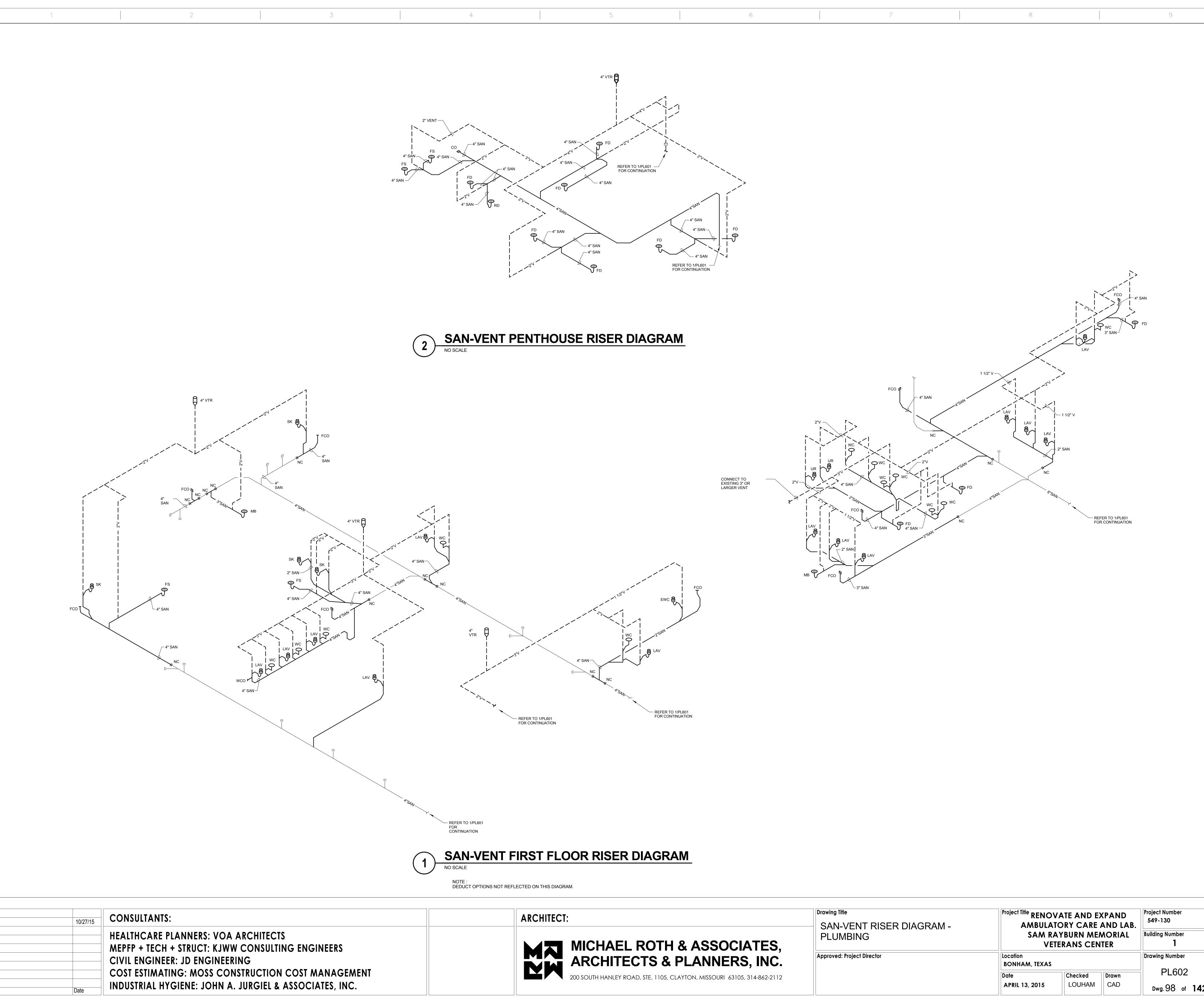
Drawing Title

Project Title RENOVATE AND EXPAND 549-130 AMBULATORY CARE AND LAB. SAM RAYBURN MEMORIAL **Building Number VETERANS CENTER Drawing Number** Location **BONHAM, TEXAS** PL501 Checked **APRIL 13, 2015** LOUHAM | CAD

Office of **Facilities** Management

Veterans Affairs





REVISED FOR BIDDING

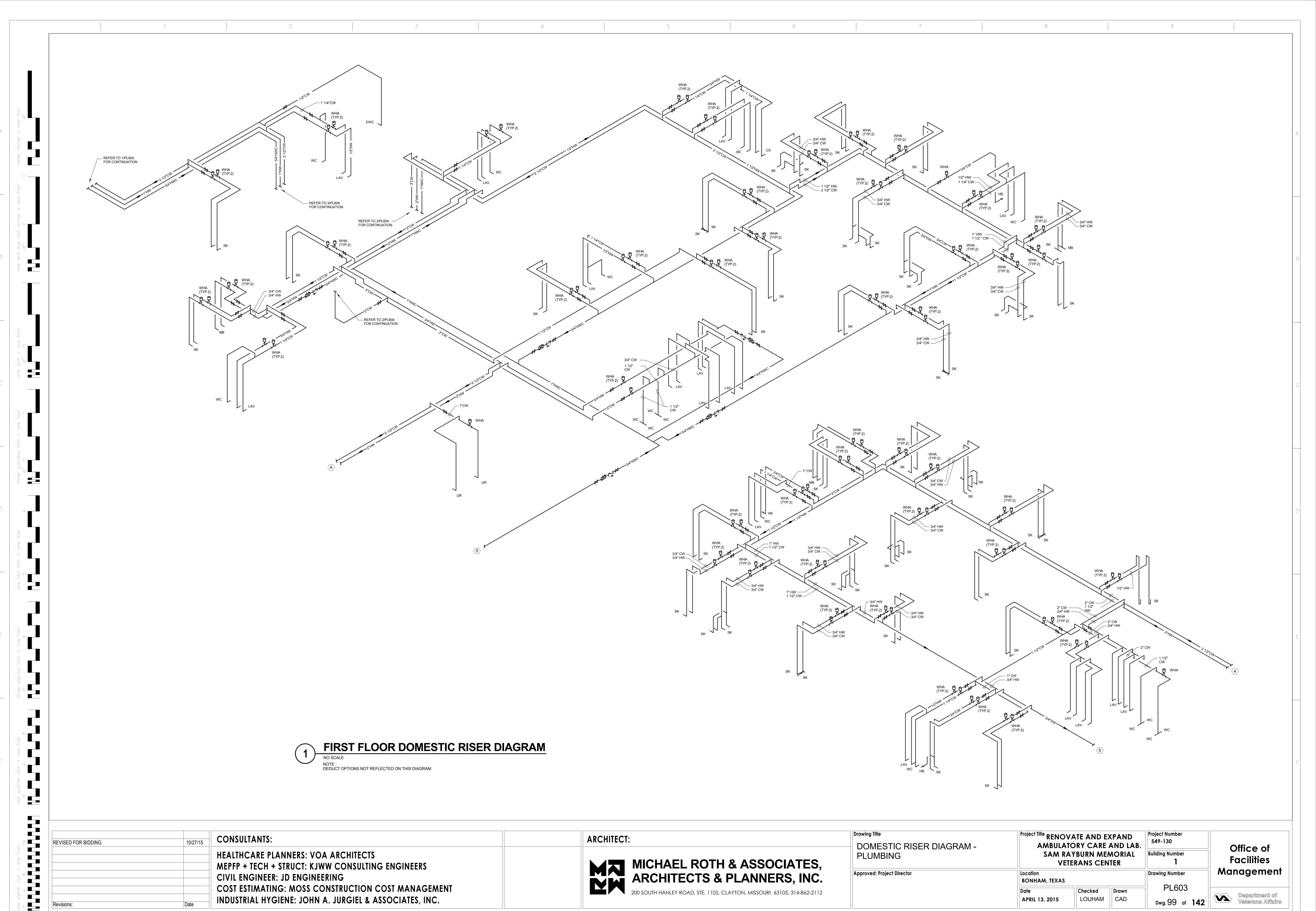
VA FORM 08-6231, OCT 1978

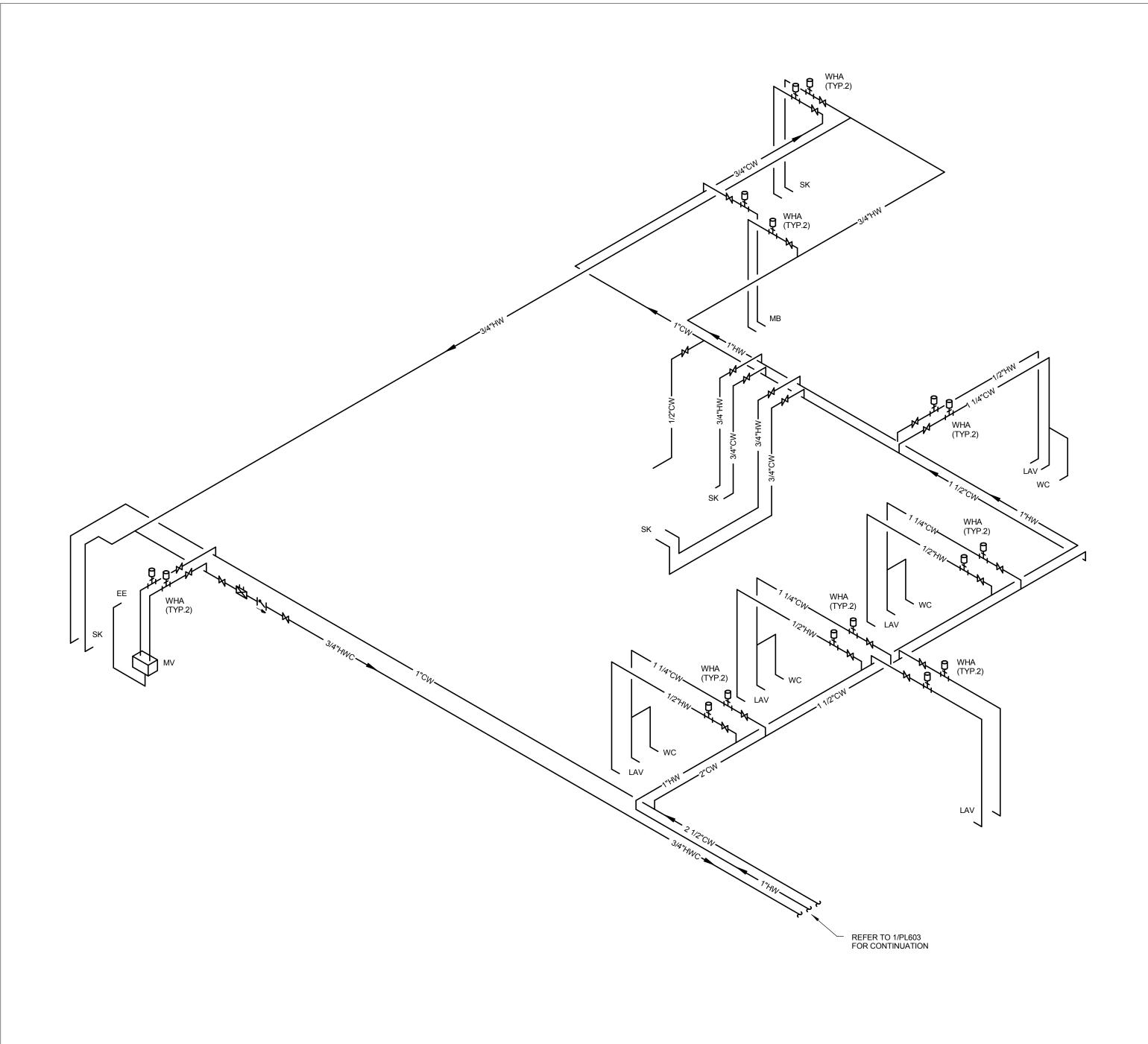
Office of

Facilities

Management

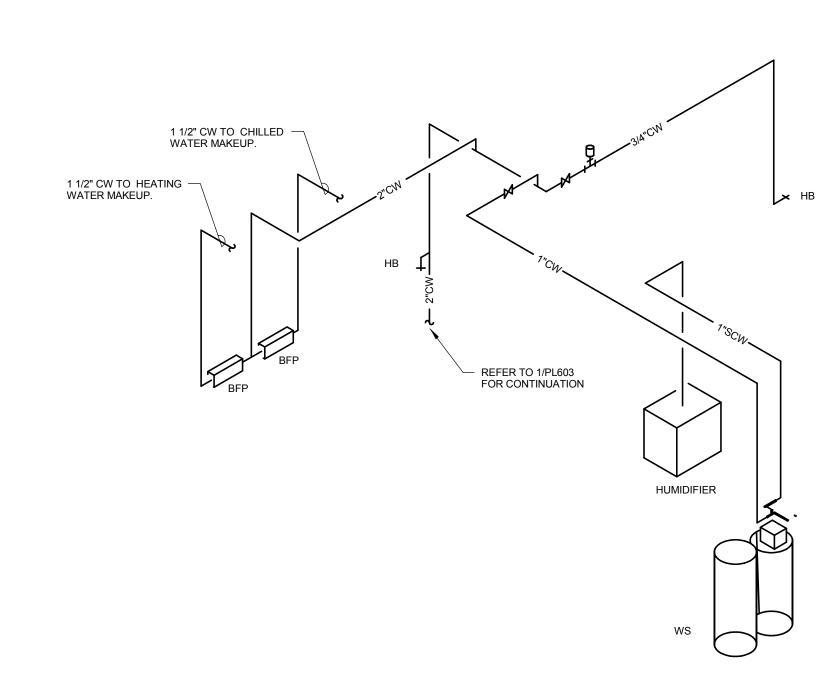
Department of Veterans Affairs



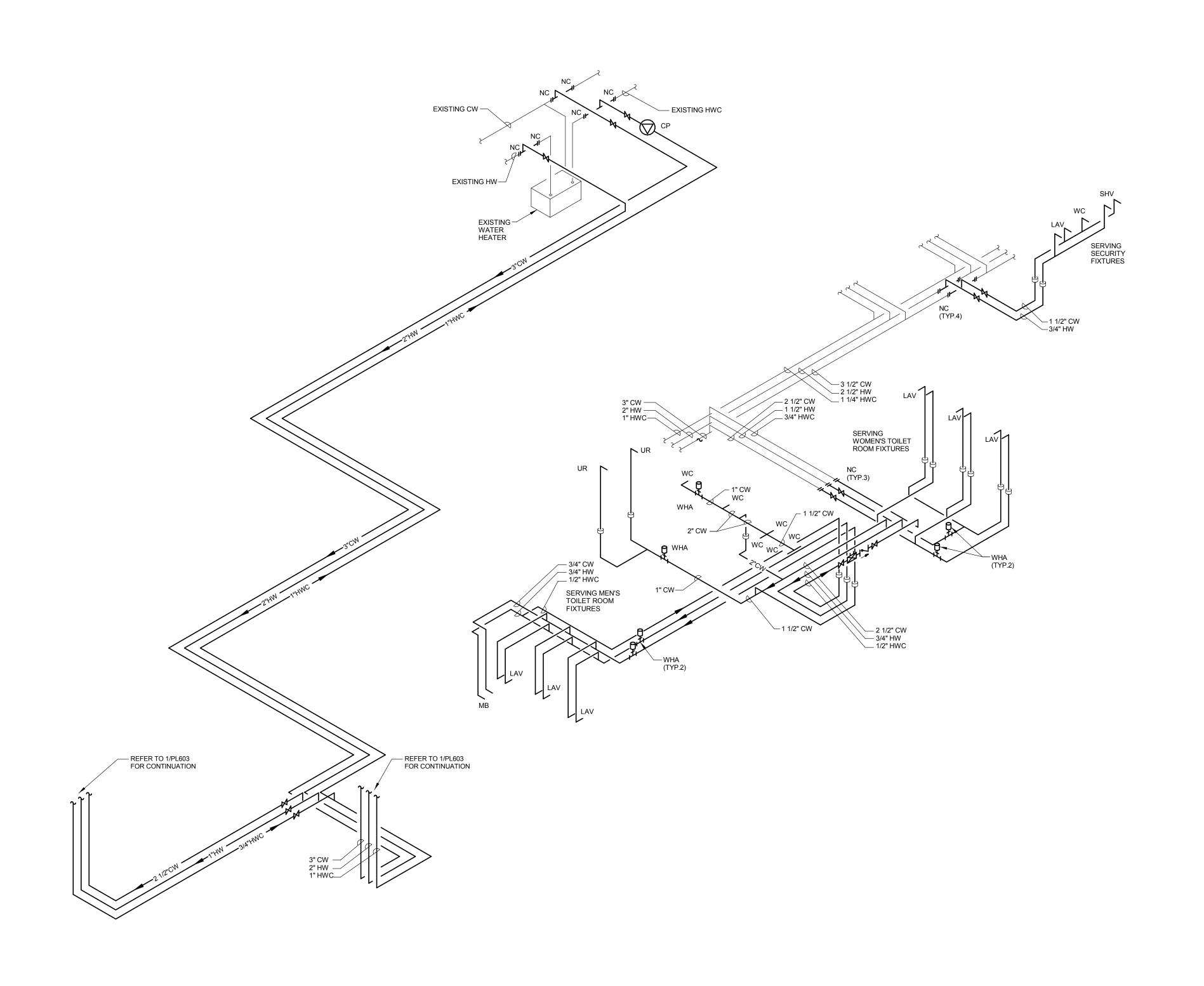


1 LABORATORY DOMESTIC RISER DIAGRAM

NOTE : DEDUCT OPTIONS NOT REFLECTED ON THIS DIAGRAM.



PENTHOUSE DOMESTIC RISER DIAGRAM NO SCALE



BASEMENT FLOOR DOMESTIC RISER DIAGRAM NO SCALE NOTE: DEDUCT OPTIONS NOT REFLECTED ON THIS DIAGRAM.

REVISED FOR BIDDING	10/27/15	CONSULTANTS:
		HEALTHCARE PLANNERS: VOA ARCHITECTS MEPFP + TECH + STRUCT: KJWW CONSULTING ENGINEERS
Revisions:	Date	CIVIL ENGINEER: JD ENGINEERING COST ESTIMATING: MOSS CONSTRUCTION COST MANAGEMENT INDUSTRIAL HYGIENE: JOHN A. JURGIEL & ASSOCIATES, INC.

VA FORM 08-6231, OCT 1978

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ARCHITECT:

DOMESTIC RISER DIAGRAM - PLUMBING	Project Title RENOVATE AND EXPAND AMBULATORY CARE AND LAB. SAM RAYBURN MEMORIAL VETERANS CENTER			Project Number 549-130 Building Number 1	
pproved: Project Director	Location BONHAM, TEXAS			Drawing Number	
	Date APRIL 13, 2015	Checked LOUHAM	Drawn CAD	PL604 Dwg. 100 of 142	

Office of Facilities Management

Department of Veterans Affairs