

**PLUMBING LEGEND**

SYMBOL	DESCRIPTION
---	SOIL, WASTE, OR SANITARY SEWER
SS	SANITARY SEWER (ON SITE)
---	SANITARY VENT
GW	GREASE WASTE
OW	COMBINATION WASTE AND VENT
AW	ACID WASTE
AV	ACID VENT
---	COLD WATER
---	HOT WATER
---	HOT WATER RETURN
OW	OIL WASTE
ST	STORM DRAIN
D	INDIRECT DRAIN
ESD	SEWAGE EJECTOR DISCHARGE
SPD	SUMP PUMP DISCHARGE
G	NATURAL GAS (LOW PRESSURE GAS)
MPG	NATURAL GAS (MEDIUM PRESSURE GAS)
→	FLOW DIRECTION
◇	GATE VALVE
◇	GLOBE VALVE
◇	CHECK VALVE
◇	BALL VALVE
+	PLUG COCK, GAS COCK
◇	PRESSURE REDUCING VALVE
PL	PLUMBING FIXTURE
FD	FLOOR DRAIN
RD	ROOF DRAIN
AD	ACCESS DOOR
VTR	VENT THRU ROOF
HB	HOSE BIB
FHW	FREEZELESS WALL HYDRANT
CD	CLEANOUT PLUG
FO	FLOOR CLEANOUT
WC	WALL CLEANOUT
COG	CLEANOUT TO GRADE
⊕	DENOTES SANITARY SEWER RISER
⊕	NEW CONNECTION TO EXISTING
⊕	DENOTES BUILDING RISER (WATER, WASTE, ETC.)

**Plumbing General Notes**

- BY NECESSITY, THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS, THE SOLUTION OF WHICH HAS IMPACTED THE DESIGNS OF OTHER TRADES (ELECTRICAL, STRUCTURAL, ETC.) IF ALTERNATE MANUFACTURERS, FUEL SOURCES, SIZES OR MODEL NUMBERS ARE SUBMITTED OR BID, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. NO EXTRAS WILL BE ALLOWED FOR CHANGES REQUIRED TO OTHER TRADES IF ALTERNATE EQUIPMENT IS BID OR INSTALLED AT THE CONTRACTORS OPTION.
- ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRIC RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTING OR COMPONENT. CONTRACTOR SHALL NOT SCALE DRAWINGS. EQUIPMENT SCHEDULES SHALL TAKE PRECEDENCE OVER CONFLICTING DRAWING INFORMATION. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY CONTRACT DOCUMENTS. REFER TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND OTHER DRAWINGS FOR COMPLETE INFORMATION.
- EXCEPT WHERE MODIFIED BY SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY ITEM, IN THE DRAWINGS OR SPECIFICATIONS OR BOTH, CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM, REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED AS PART OF THE INDICATION OR DESCRIPTION.
- EXACT LOCATION OF ALL EQUIPMENT AND PIPING SHALL BE COORDINATED WITH OTHER TRADES. CEILING MOUNTED SPRINKLER, LIGHTING AND ELECTRICAL REQUIREMENTS TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL REQUIREMENTS.
- ALL PLUMBING SYSTEMS SHALL BE INSTALLED AS PER SPECIFICATIONS AND GOVERNING CODES.
- INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS AND VICE-VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHER TRADES, HVAC, STRUCTURAL, ETC. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS AND DIMENSIONS.
- REFER TO SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS AND MODELS OF PLUMBING FIXTURES AND EQUIPMENT, AND PROPER APPLICATIONS OF SAME.
- PROVIDE CLEANOUTS IN ALL SANITARY, STORM DRAINAGE & OVERFLOW LINES, WHETHER SHOWN OR NOT, AT INTERVALS NOT TO EXCEED 50 FEET, AT EACH DIRECTION 45 DEGREES AND GREATER, AND ON ALL VERTICAL RISERS AT A HEIGHT OF 30" A.F.F. AT THE BASE OF EACH STACK.
- PROVIDE PRESSURE REDUCERS IN WATER SUPPLY LINES TO KEEP PRESSURE BELOW 70 PSI AT ALL OUTLETS. MINIMUM PRESSURE ACCEPTABLE AT WATER OUTLETS IS 15 PSI AT DIRECT SUPPLY FLUSH VALVES AND 8 PSI AT ALL OTHER OUTLETS.
- INSULATE ALL WATER LINES ABOVE FLOOR. INSULATE ALL HORIZONTAL STORM LINES ABOVE FLOOR.
- INSULATE ALL CONDENSATE LINES INSIDE BUILDING AS PER INSULATION REQUIREMENTS FOR COLD WATER LINE, IN SPECIFICATIONS.
- ALL SANITARY LINES ARE 1/4" PER FOOT WHERE POSSIBLE, AND NOT LESS THAN 1/8" PER FOOT IN ANY CASE. VERIFY INVERTS WITH SITE DRAWINGS AND COORDINATE INSTALLATION TO ASSURE PROPER FLOW.
- SEAL ALL PIPE PENETRATIONS THRU RATED WALLS.
- PROVIDE WATER HAMMER ARRESTORS IN BRANCH WATER LINES AS REQUIRED BY GOOD PRACTICE OR MINIMUM OF ONE ARRESTOR FOR EACH FIXTURE OR BANK OF FIXTURES.
- PROVIDE STOP VALVES AT EVERY FIXTURE ON BOTH HOT AND COLD WATER SUPPLY LINES. VALVES, ESCUTCHEONS, FITTINGS, ETC. SHALL BE CHROMIUM PLATED WHERE EXPOSED. CHROME PLATED PIPE IS USED.
- ALL FLOOR DRAINS TO HAVE DEEP SEAL TRAPS. 4" DEEP SEAL MINIMUM.
- PROVIDE TRAP PRIMERS ON ALL RESTROOM FLOOR DRAINS, AS WELL AS FLOOR DRAINS IN FAN ROOMS, COIL ROOMS, SPRINKLER ROOMS, OR WHERE ANY DRAIN IS FOR INFREQUENT DISCHARGE OF WASTE WATER. LOCATE TRAP PRIMER VALVES IN ACCESSIBLE LOCATION OR PROVIDE ACCESS PANEL. DO NOT LOCATE TRAP PRIMER VALVES OR PIPING IN PUBLIC ACCESSIBLE AREAS.
- ALL PIPE DROPS FROM CEILING PLENUM TO BELOW FLOOR SHALL BE MADE IN FURR-OUTS AT COLUMNS IN WEBS OF BEAMS AT COLUMNS. OR IN WALLS UNLESS SHOWN OTHERWISE.
- ALL EXPOSED OR ACCESSIBLE P-TRAPS SHALL BE CHROME PLATED AND PROVIDED WITH BOTTOM CLEANOUT PLUGS.
- PROVIDE INSULATION AT ALL EXPOSED HOT WATER & DRAIN PIPING FOR HANDICAP FIXTURES PER ANSI A117.1 AND ADA REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE ALL SANITARY SEWER, STORM DRAIN, FIRE AND DOMESTIC WATER LINES AND NATURAL GAS LINES WITH CIVIL DRAWINGS. SEE CIVIL DRAWINGS FOR CONTINUATION OF ALL UTILITY LINES.
- ALL SEWER, WASTE, DRAIN, STORM DRAIN PIPING IS BELOW FLOOR OF THE PLAN SHOWN, UNLESS OTHERWISE INDICATED.

**ADA Requirements**

This applies to Handicapped Accessible fixtures only.

**Water Closets** - The height of water closets shall be 17" to 19" measured to the top of the toilet seat. Seats shall not be sprung to return to a lifted position. The water closet shall be located 18" from the side wall to the center line of the bowl. Hand operated flush controls shall be mounted on the wale side of toilet areas no more than 29" above the finish floor. See architectural drawings for grab bar locations.

**Urinals** - The urinals shall be wall hung with an elongated rim at a maximum of 17" above the finish floor. Hand operated flush controls shall be mounted no more than 44" above finish floor.

**Lavatories** - Lavatories shall be mounted with the rim or counter surface no higher than 34" above the finish floor. Provide a clearance of at least 29" above the finish floor to the bottom of the apron. Knee space shall be 8" from bottom edge of apron to the leading edge of the bottom of the bowl. The bottom of the bowl shall be a minimum of 27" above the finish floor. All water and drain piping under lavatories shall be installed with a foam insert, covered with a 1/8" vinyl outer shell. Angle stops shall have a flip top access.

**Faucets - Bathtub** - Shower controls. Controls shall be lever handles operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate controls shall be no greater than 5 lb.

**Bathtub** - An in tub seat or a seat at the head end of the tub shall be provided. Seats shall be mounted securely and shall not slip during use. In addition to the fixed shower head provide a hand held shower spray unit with a hose at least 60" long that can be used both as a fixed shower head and as a hand held shower head. In a 30"x60" shower unit a fixed seat shall be provided. It shall be a folding type and shall be mounted on the wall adjacent to the controls. See architectural drawings for grab bar locations.

**Shower** - A seat shall be provided in shower stalls 36"x36". The seat shall be mounted on the wall opposite of the controls and 17" to 19" from the bathroom floor and shall extend the full depth of the stall. Shower controls shall be mounted on the wall opposite of the seat and shall be located on the same wall as the shower head, at minimum height of 38" and a maximum height of 48". In addition to the fixed shower head provide a hand held shower spray unit with a hose at least 60" long that can be used both as a fixed shower head and as a hand held shower head. In a 30"x60" shower unit a fixed seat shall be provided. It shall be a folding type and shall be mounted on the wall adjacent to the controls. See architectural drawings for grab bar locations.

**Sinks** - Sinks shall be mounted with the rim or counter surface no higher than 34" above the finish floor. Provide a knee clearance of at least 27" high, 30" wide and 19" deep. Sinks shall be a maximum of 6 1/2" deep. All water and drain piping under sinks shall be insulated with a foam insert, covered with a 1/8" vinyl outer shell. Angle stops shall have a flip top access.

**Drinking Fountains / Water Coolers** - Where only one drinking fountain is provided on a floor there shall be a drinking fountain which is accessible to individuals who use wheel chairs and one accessible to those having difficulty bending or stooping. This can be accomplished by using a "two" fountain. Lowest spout shall be no higher than 36" above finished floor and highest spout shall be mounted at 40" above finish floor. Spouts shall be at front of the unit and shall direct the water flow in a trajectory that is parallel or nearly parallel to the front of the unit. The spout shall provide a flow of water at least 4" high. Controls shall be front mounted or side mounted near the front edge. Controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate controls shall be no greater than 5 lb. Wall mounted units shall have a clear knee space of between the bottom of the apron and the finished floor at least 27" high, 30" wide, and 17" to 19" deep. Fountains shall not protrude more than 4" out into walkways.

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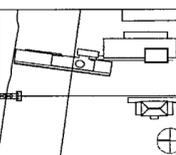
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**PLUMBING  
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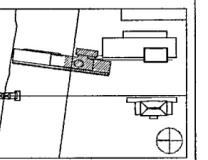
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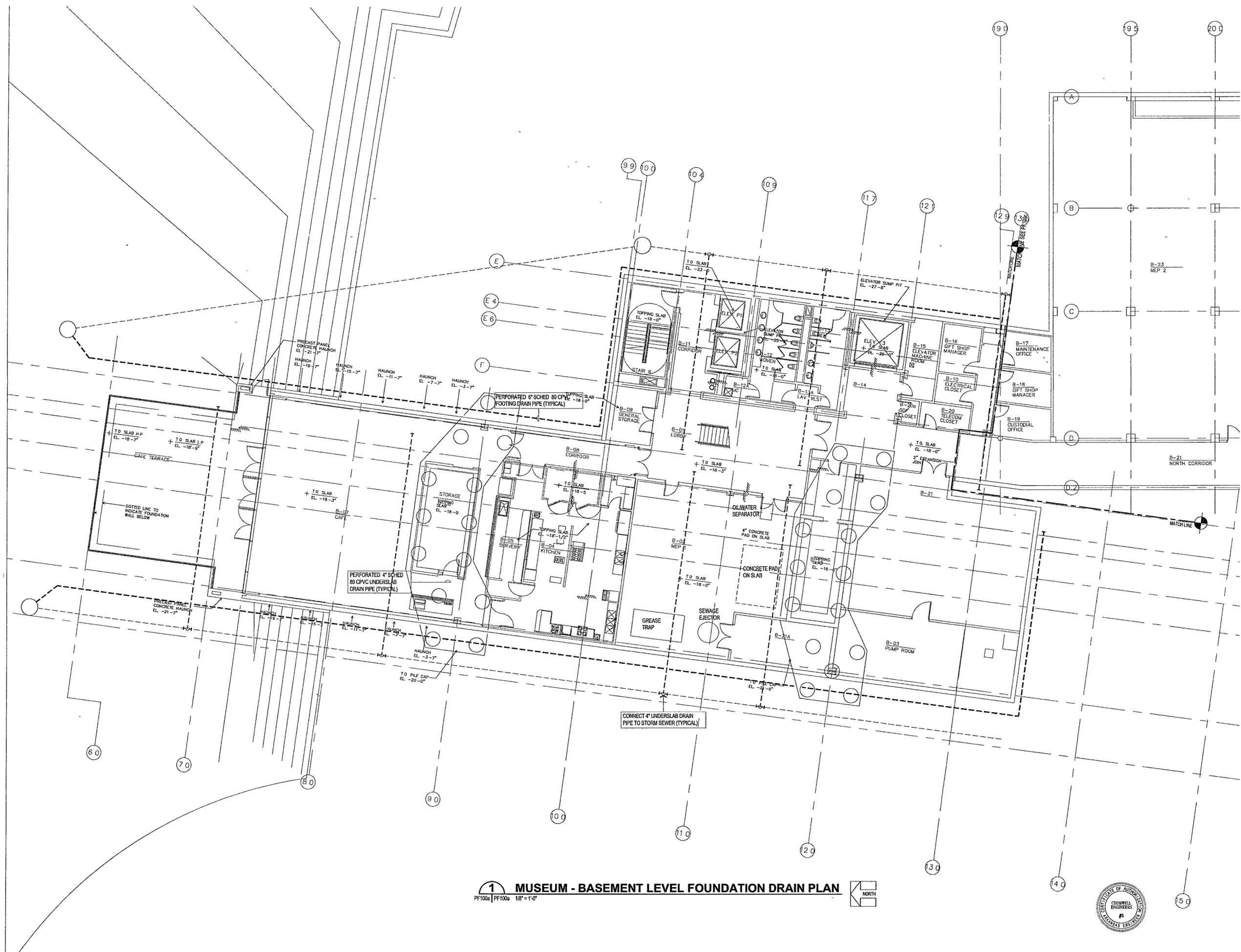
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Scale: 1/8" = 1'-0"

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Title: **MUSEUM  
BASEMENT LEVEL  
FOUNDATION DRAIN  
PARTIAL PLAN**

Sheet No: **PF100b**

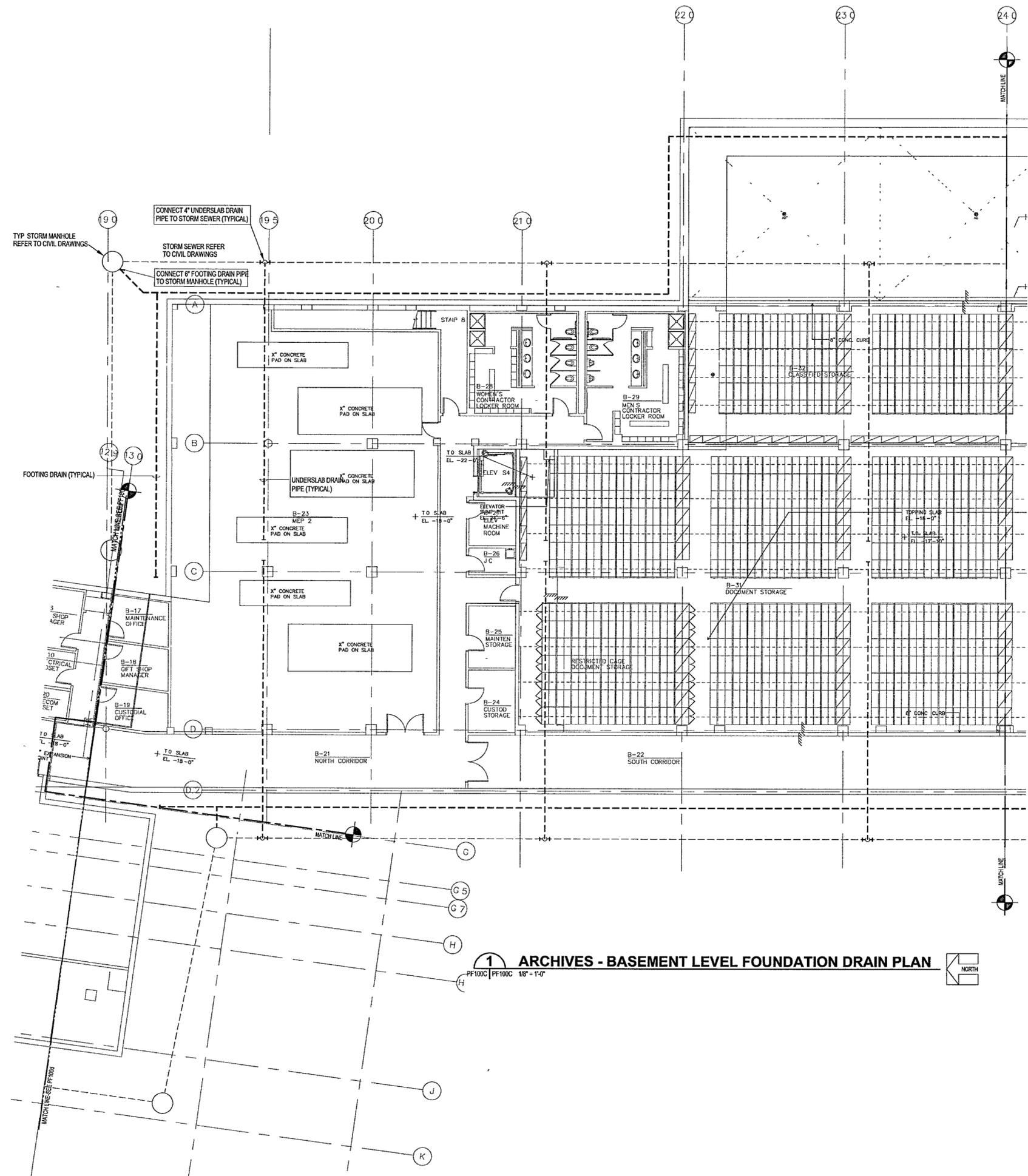


**1 MUSEUM - BASEMENT LEVEL FOUNDATION DRAIN PLAN**  
PF100a | PF100b 1/8" = 1'-0"



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134b



**1 ARCHIVES - BASEMENT LEVEL FOUNDATION DRAIN PLAN**  
 PF100C | PF100C 1/8" = 1'-0"  
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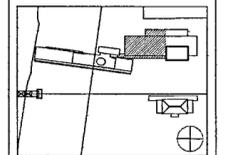
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Title: **ARCHIVES  
 BASEMENT LEVEL  
 FOUNDATION DRAIN  
 PARTIAL PLAN**

Sheet No: **PF100c**

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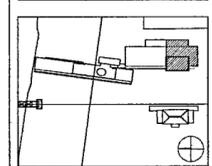
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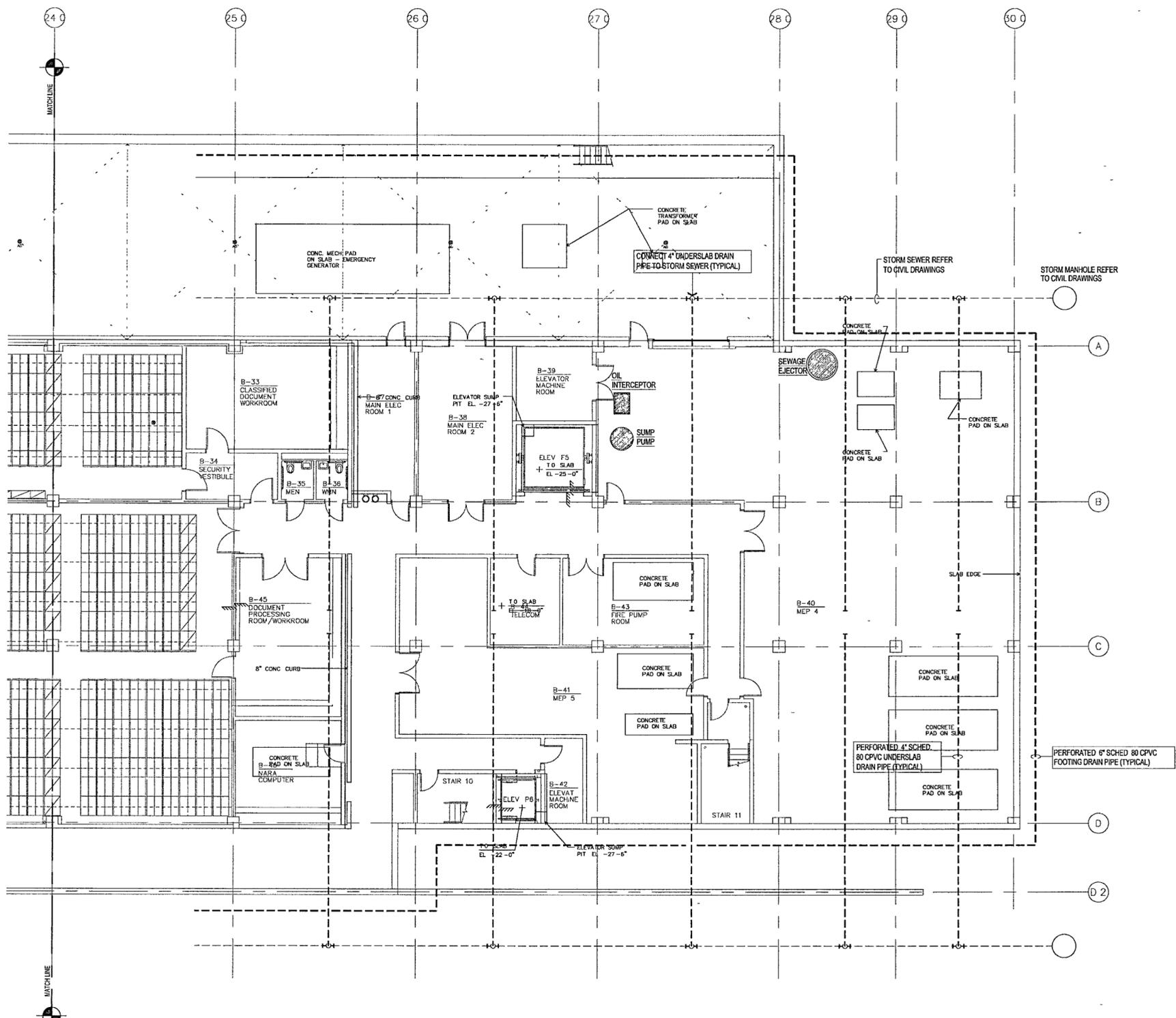


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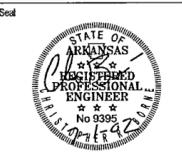
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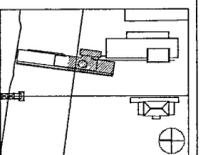
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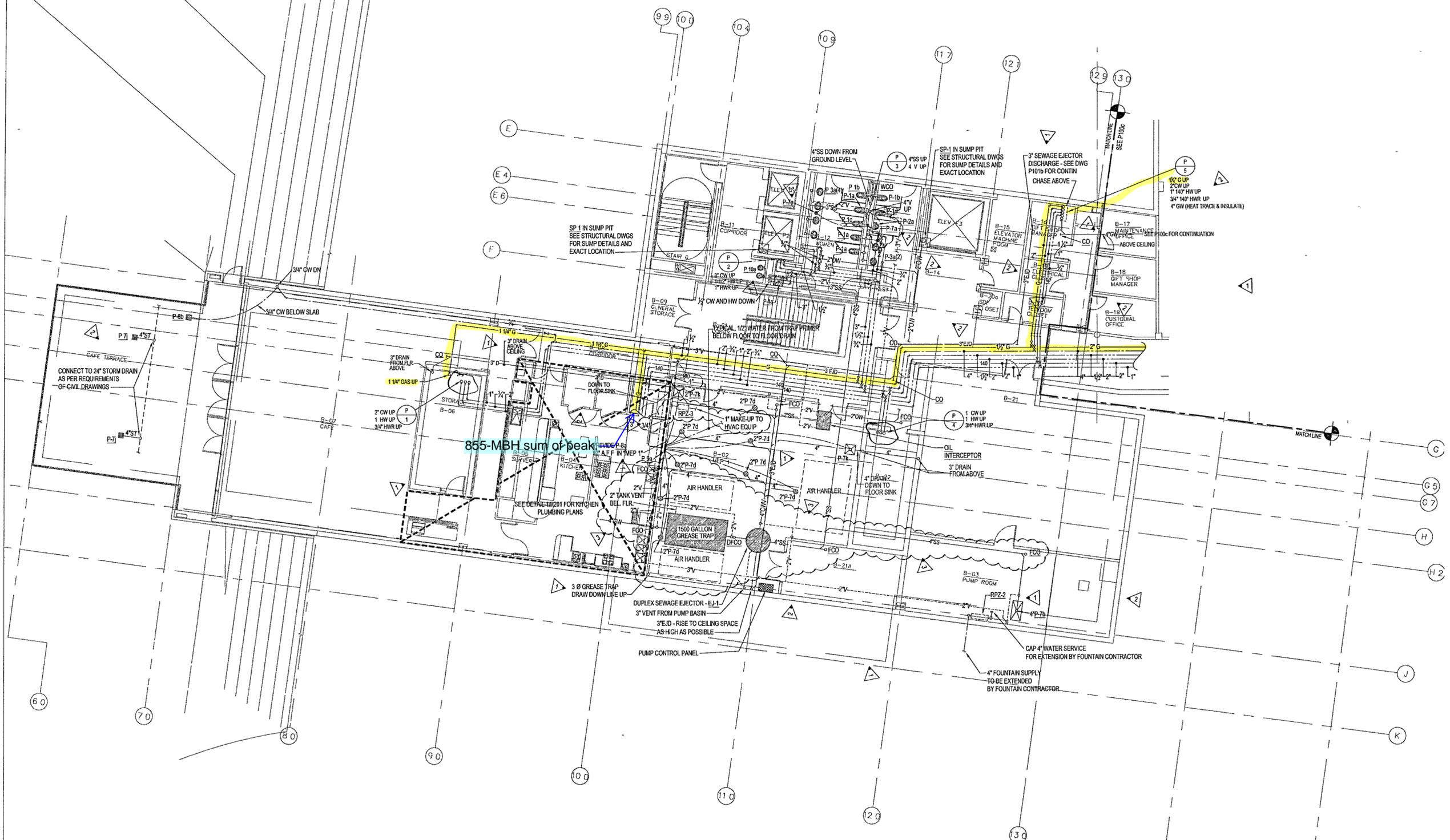
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Sheet No.

**P100b**



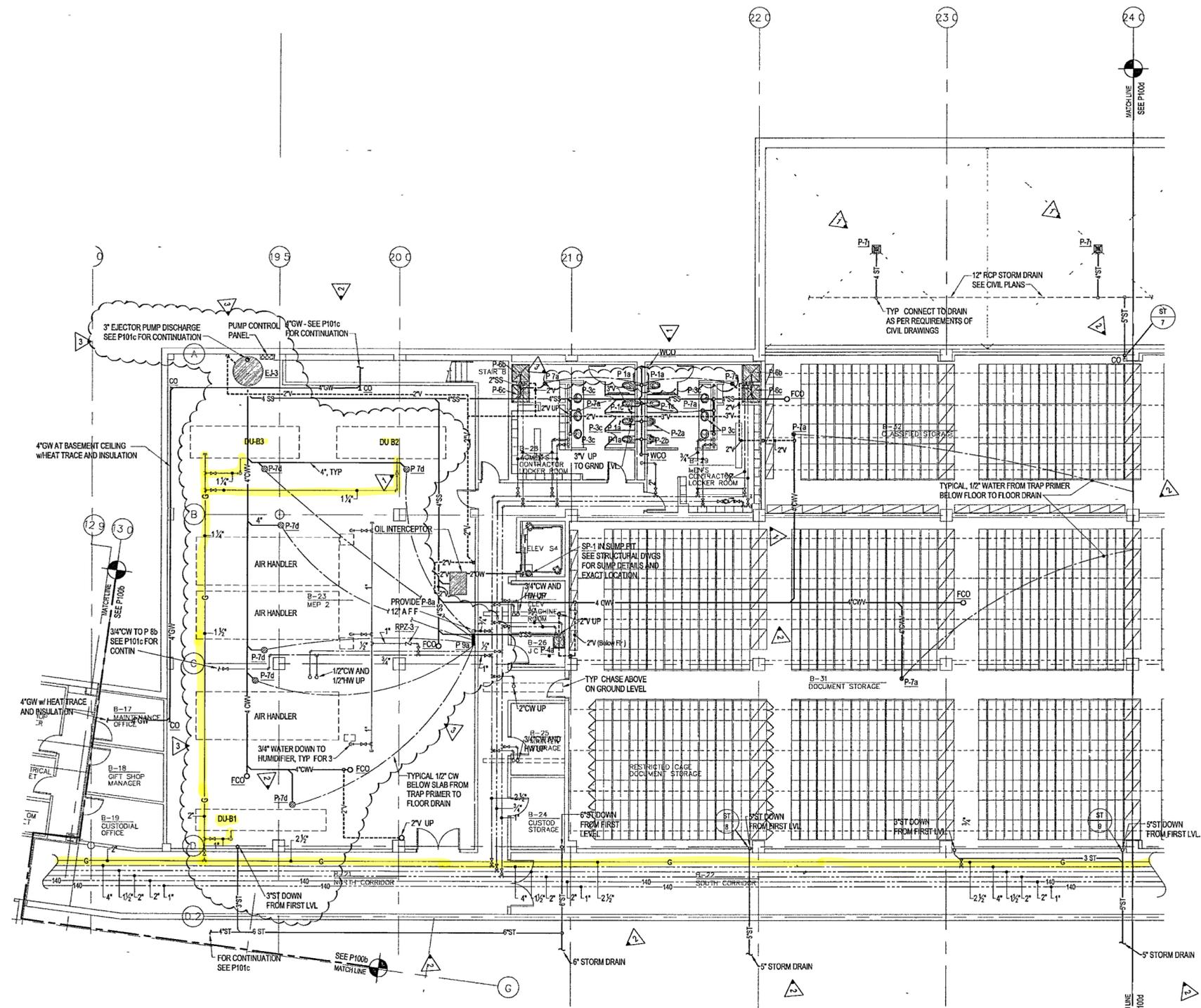
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1/27/02



**1 ARCHIVES - BASEMENT LEVEL PLUMBING PLAN**  
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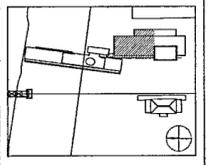
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Plumbing Contract Documents	07/01/02
100% Design Development	03/01/02
100% as per L.O.C. P100c	



Job No. POLSHEK & PARTNERS ARCH. 9908  
 CROMWELL AE 99-114

Scale 1/8" = 1'-0"

Date JULY 01, 2002

Title **ARCHIVES  
BASEMENT LEVEL  
PLUMBING  
PARTIAL PLAN**

Sheet No. **P100c**



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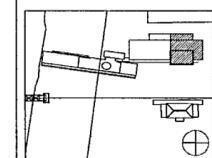
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**100% PLUMBING  
CONSTRUCTION DRAWINGS  
ISSUE - JULY 1, 2002**



Issue	Date
100% Construction Documents	09/27/02
Revise Storm Drain ASI #7	3 Sept 02
90% Progress Printing	08/30/02
General Revisions ASI #6	26 Aug 02
General Revisions ASI #3	6 Aug 02
Plumbing Contract Documents	07/01/02
100% Design Development	03/01/02
Issue	Date



Job No: POLSHEK & PARTNERS ARCH 9908  
CROMWELL AE 99-114

Scale: 1/8" = 1'-0"

Date: JULY 01, 2002

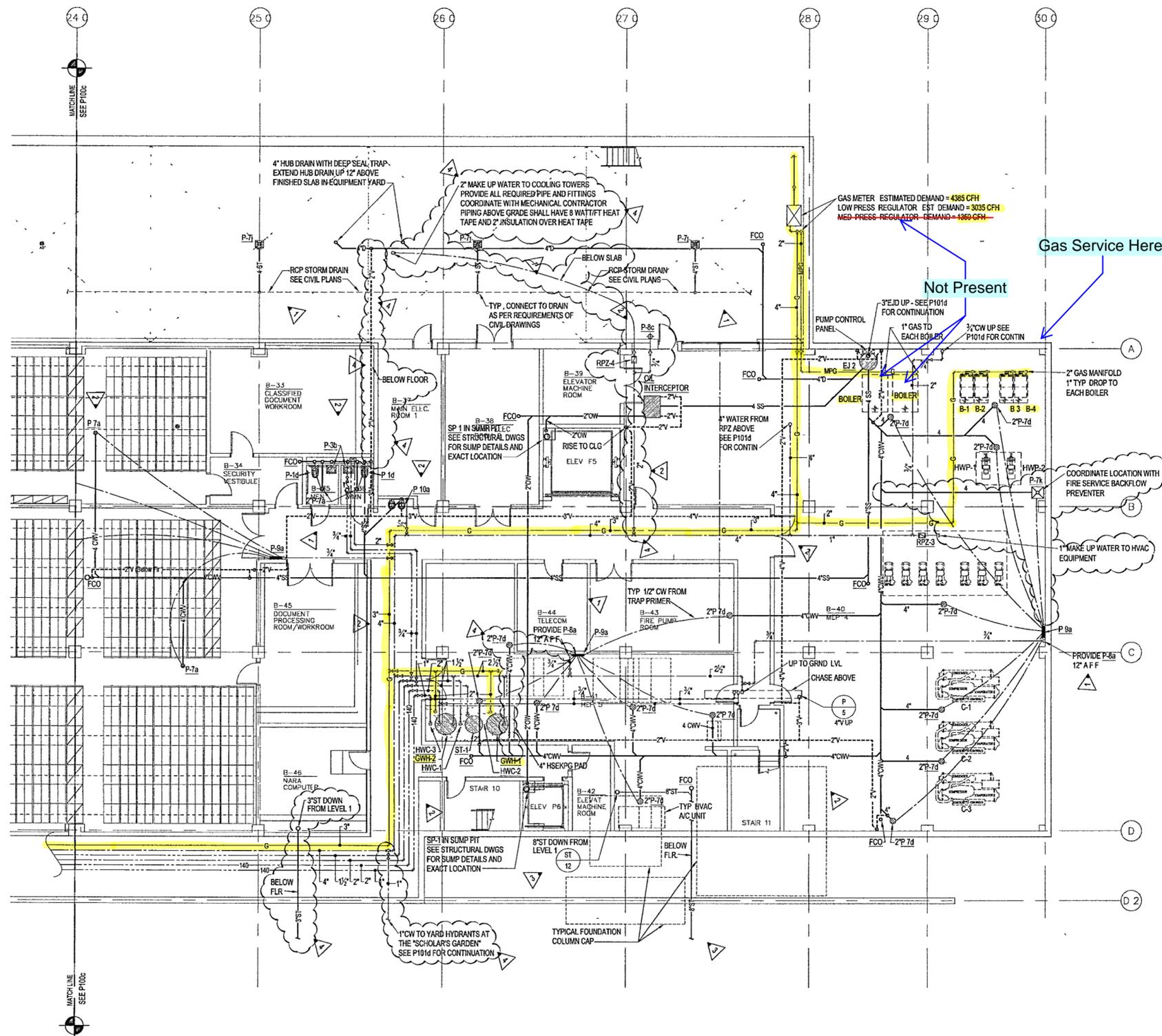
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BASEMENT LEVEL  
PLUMBING  
PARTIAL PLAN**

Sheet No:

**P100d**



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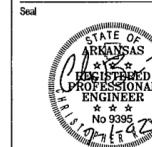


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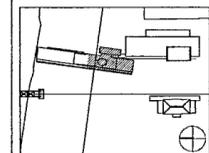
P100d | P100c 1/8" = 1'-0"



1/8/02



100% Construction Documents	09/27/02
90% Progress Printing	03/30/02
Revised Storm Drain	16 Aug 02
General Revisions ASI #3	9 Aug 02
Plumbing Contract Documents	07/01/02
100% Design Development	03/01/02
Issue as P101a	



Job No. POLSHEK & PARTNERS ARCH 9908  
CROMWELL AE 99-114

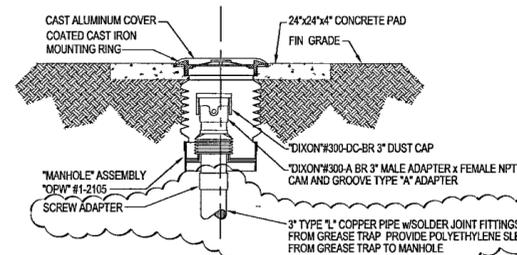
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Date JULY 01, 2002

Title MUSEUM  
GROUND LEVEL  
PLUMBING  
PARTIAL PLAN

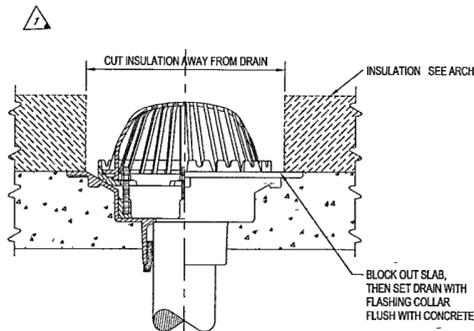
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P101b



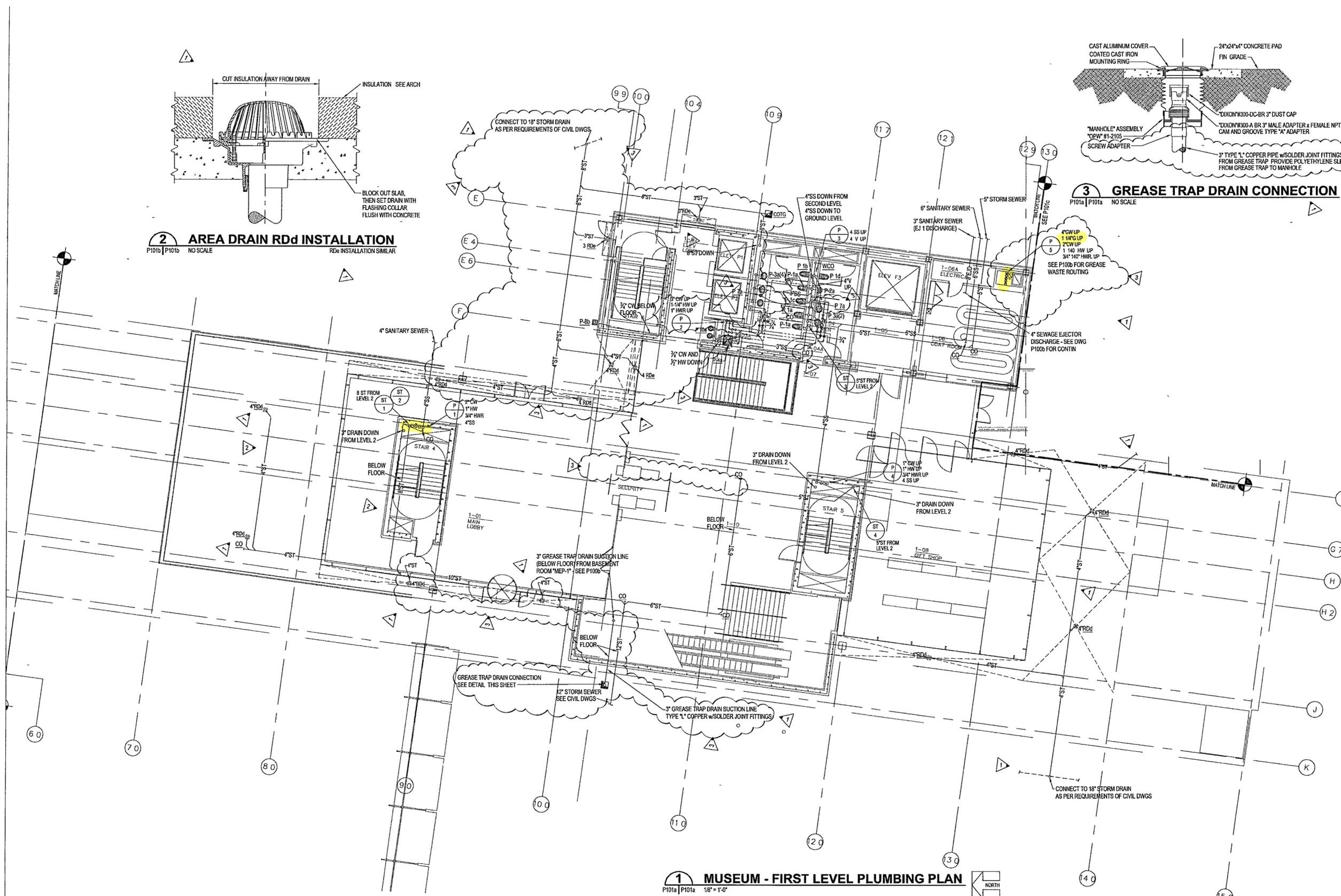
3 GREASE TRAP DRAIN CONNECTION

P101a | P101a NO SCALE



2 AREA DRAIN RDr INSTALLATION

P101b | P101b NO SCALE RDr INSTALLATION SIMILAR



1 MUSEUM - FIRST LEVEL PLUMBING PLAN

P101a | P101a 1/8" = 1'-0"



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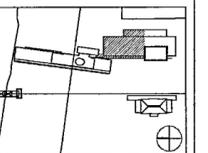
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ISSUE - JULY 1, 2002

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100% Construction Documents	08/27/02
90% Progress Printing	08/30/02
General Revisions - ASI #3	9 Aug 02
Plumbing Contract Documents	07/01/02
100% Design Development Titles as part of P-101b	03/01/02
Issue	Date



Job No: POLSHEK & PARTNERS ARCH 9908

CROMWELL AE 99-114

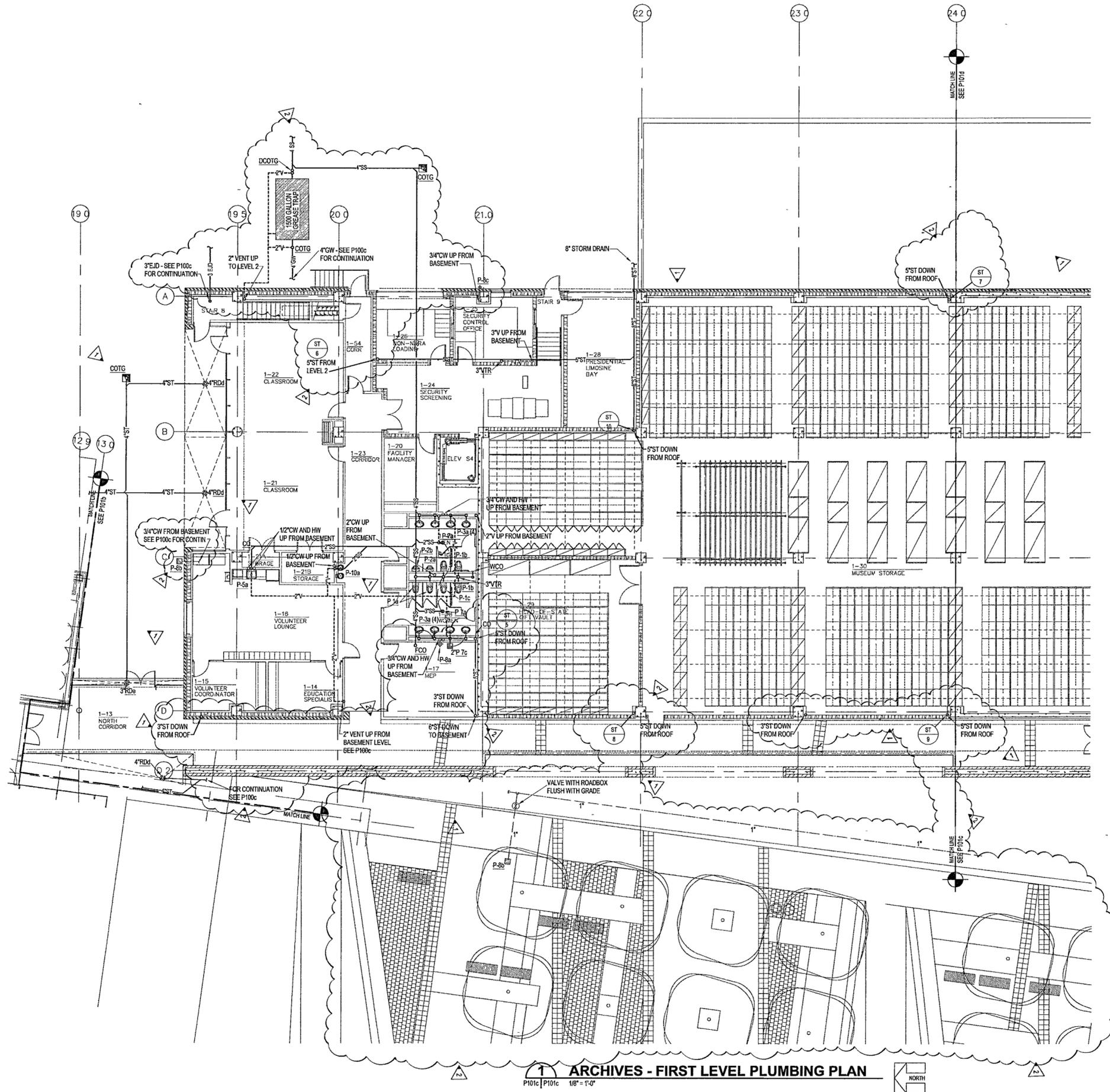
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Date: JULY 01 2002

Title: ARCHIVES  
GROUND LEVEL  
PLUMBING  
PARTIAL PLAN

Sheet No:

P101c



1 ARCHIVES - FIRST LEVEL PLUMBING PLAN

P101c | P101c 1/8" = 1'-0"



4/4

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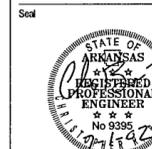
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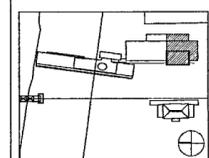
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ISSUE - JULY 1, 2002



Issue	Date
100% Construction Documents	09/27/02
90% Progress Printing	08/30/02
General Revisions ASI #3	9/AUG/02
Plumbing Contract Documents	07/01/02
100% Design Development	03/01/02
Titles as part of P101c	



Job No: POLSHEK & PARTNERS ARCH 9908  
CROMWELL LAE 99-114

Scale: 1/8" = 1'-0"

Date: JULY 01, 2002

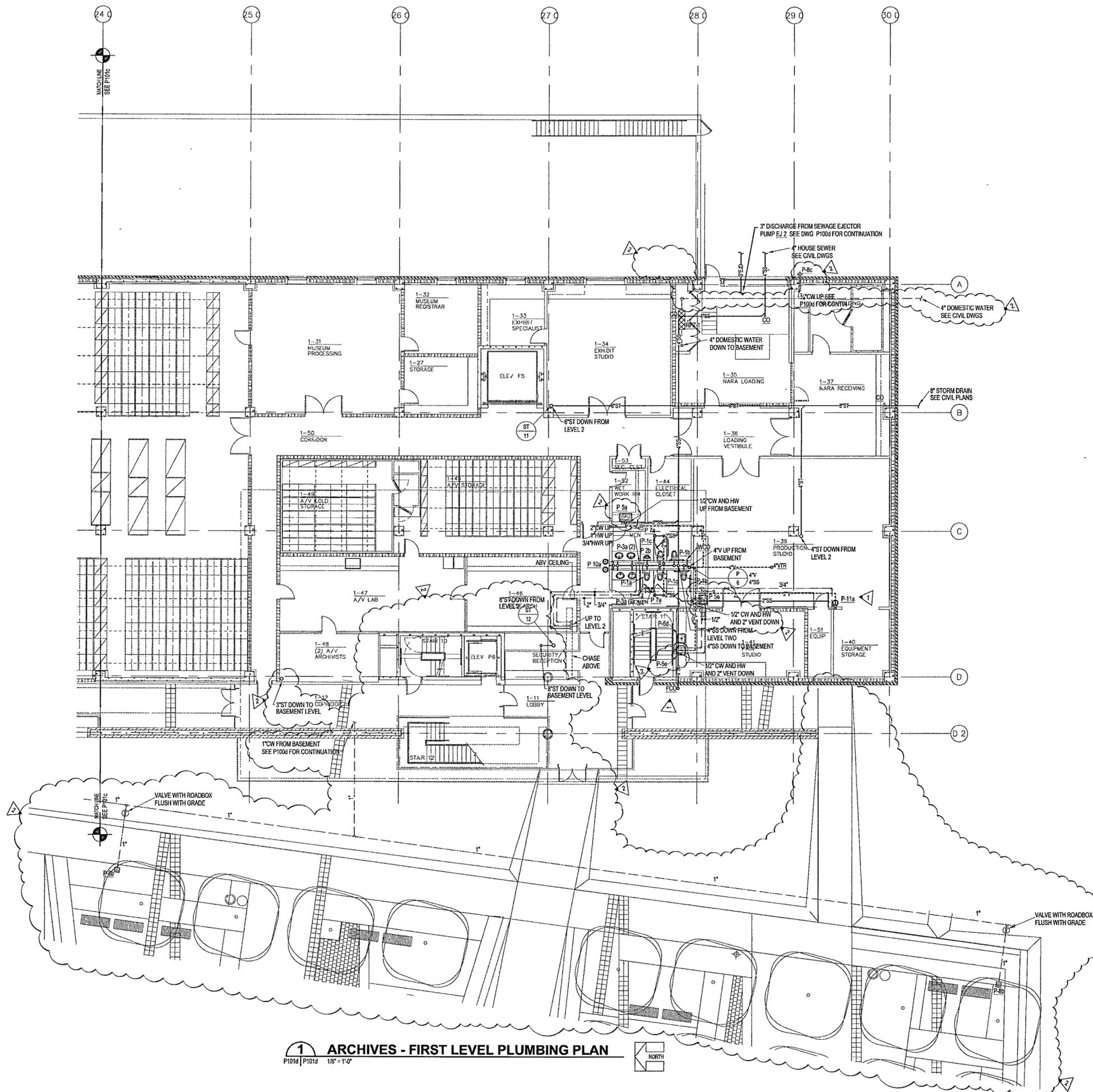
Title: ARCHIVES  
GROUND LEVEL  
PLUMBING  
PARTIAL PLAN

Sheet No:

**P101d**



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**1 ARCHIVES - FIRST LEVEL PLUMBING PLAN**  
P101d | P101j 1/8" = 1'-0"



1-24-B

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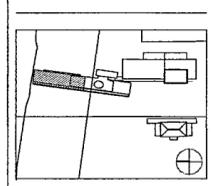
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ISSUE - JULY 1, 2002**



Issue	Date
100% Construction Documents	09/27/02
90% Progress Printing	08/30/02
Plumbing Contract Documents	07/01/02
100% Design Development	03/01/02



Job No: POLSHEK & PARTNERS ARCH 8908  
CROMWELL AE 99-114

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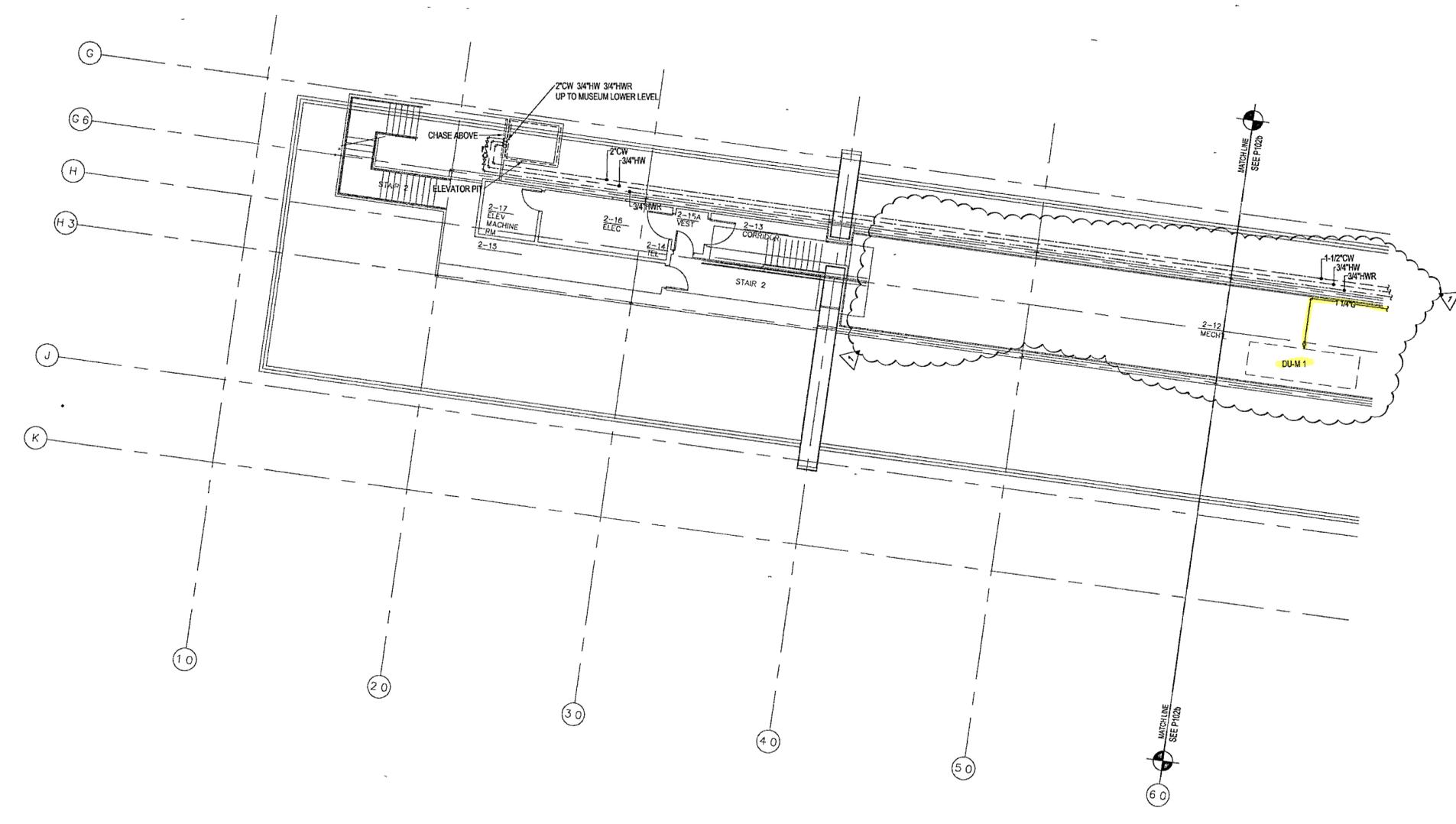
Date: JULY 01 2002

Title: **MUSEUM  
SECOND LEVEL  
PLUMBING  
PARTIAL PLAN**

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**1 MUSEUM - SECOND LEVEL PLUMBING PLAN**  
P102a | P102a 1/8" = 1'-0"

9641

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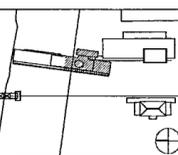
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ISSUE - JULY 1, 2002



Issue	Date
100% Construction Documents	09/27/02
90% Progress Printing	09/30/02
Plumbing Contract Documents	07/01/02
100% Design Development	03/01/02



Job No: POLSHEK & PARTNERS ARCH 0908  
CROMWELL AE 99-114

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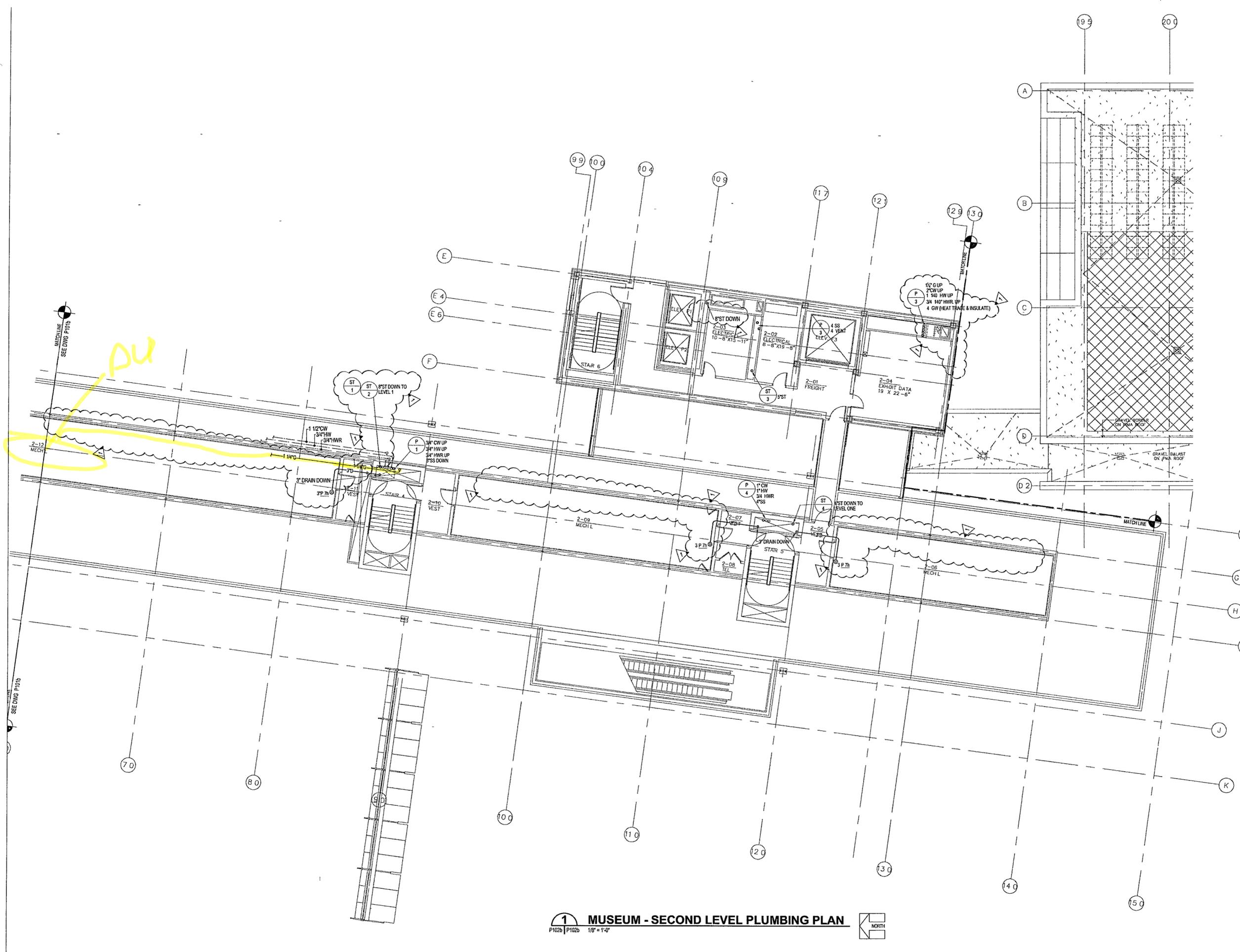
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Title: MUSEUM  
SECOND LEVEL  
PLUMBING  
PARTIAL PLAN

Sheet No:

P102b

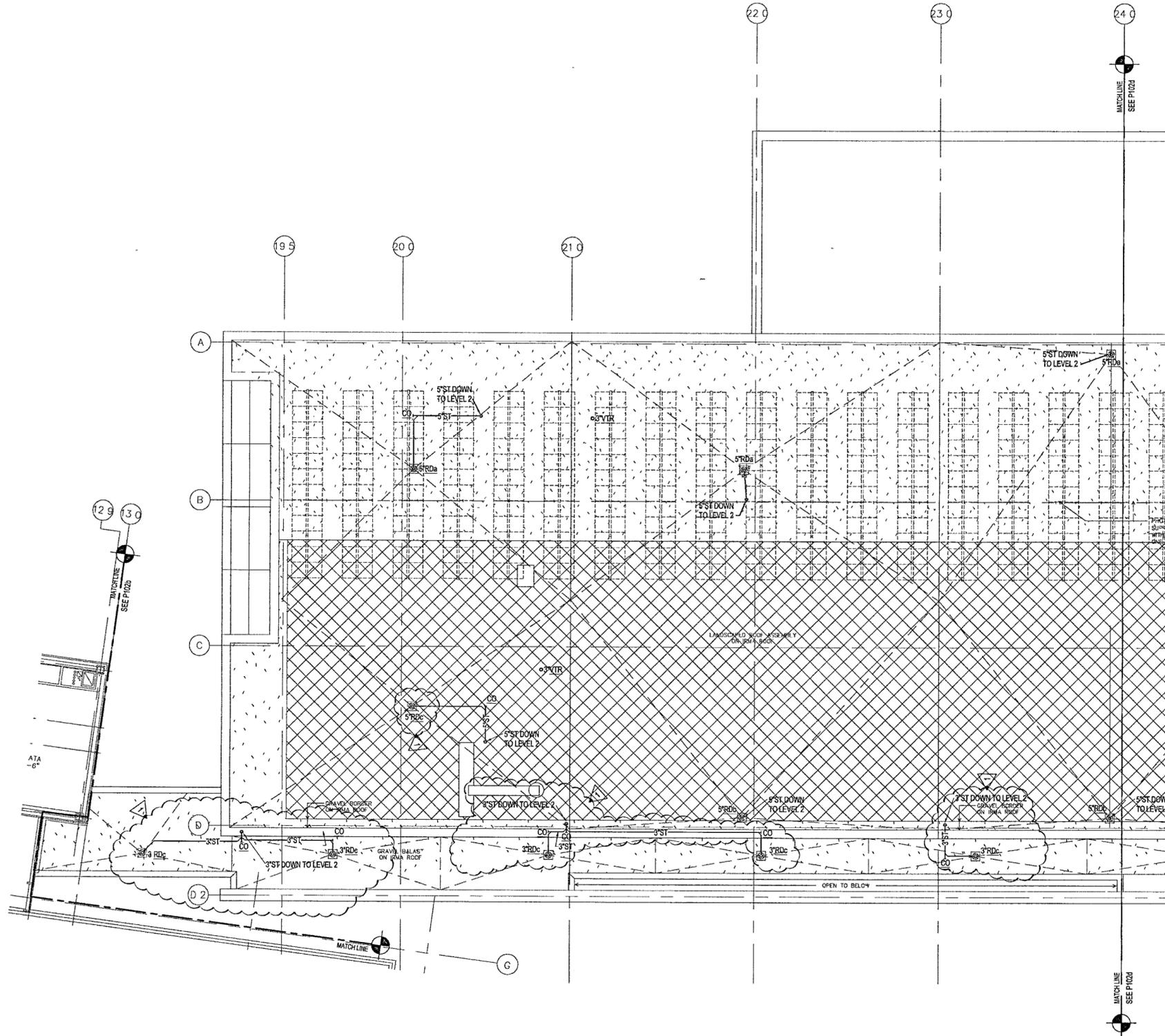
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P102b | P102b 1/8" = 1'-0"



1448



**1 ARCHIVES - ROOF/SECOND LEVEL PLUMBING PLAN**  
 P102c | P102c 1/8" = 1'-0"



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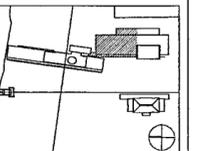
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Issue	Date
100% Construction Documents	05/27/02
90% Progress Printing	06/30/02
Plumbing Contract Documents	07/01/02
100% Design Development	03/01/02



Job No. POLSHEK & PARTNERS ARCH 0908  
 CROMWELL AE 99-114  
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 Date JULY 01, 2002

Title **ARCHIVES  
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 PLUMBING  
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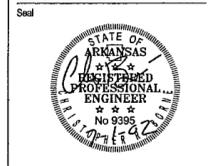
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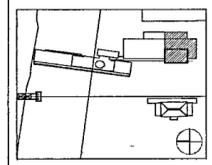
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ISSUE - JULY 1, 2002**



Issue	Date
100% Construction Documents	09/27/02
90% Progress Printing	09/30/02
Plumbing Contract Documents	07/01/02
100% Design Development Titled as part of P102c	03/01/02



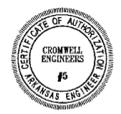
Job No POLSHEK & PARTNERS ARCH 9908  
CROMMELL AE 99-114

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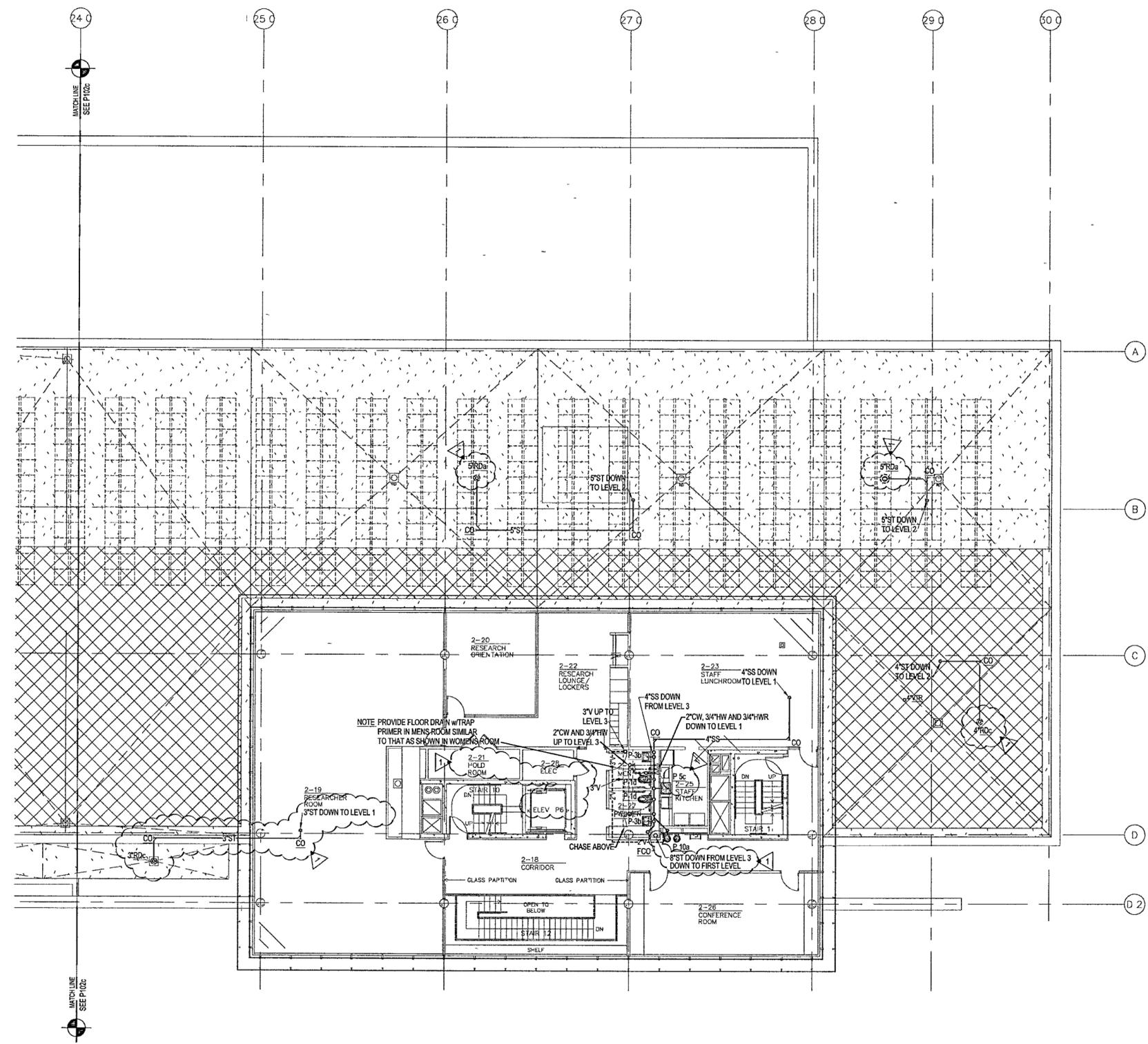
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Title **ARCHIVES  
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PLUMBING  
PARTIAL PLAN**

Sheet No **P102d**



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**1 ARCHIVES - ROOF/SECOND LEVEL PLUMBING PLAN**  
FP102c FP102c 1/8" = 1'-0"



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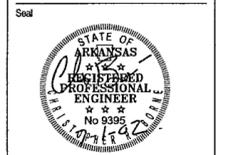
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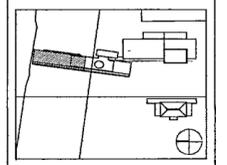
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ISSUE - JULY 1, 2002**



Issue	Date
100% Construction Documents	09/27/02
90% Progress Printing	08/30/02
General Revisions ASI #3	9 Aug 02
Plumbing Contract Documents	07/01/02
100% Design Development	03/01/02



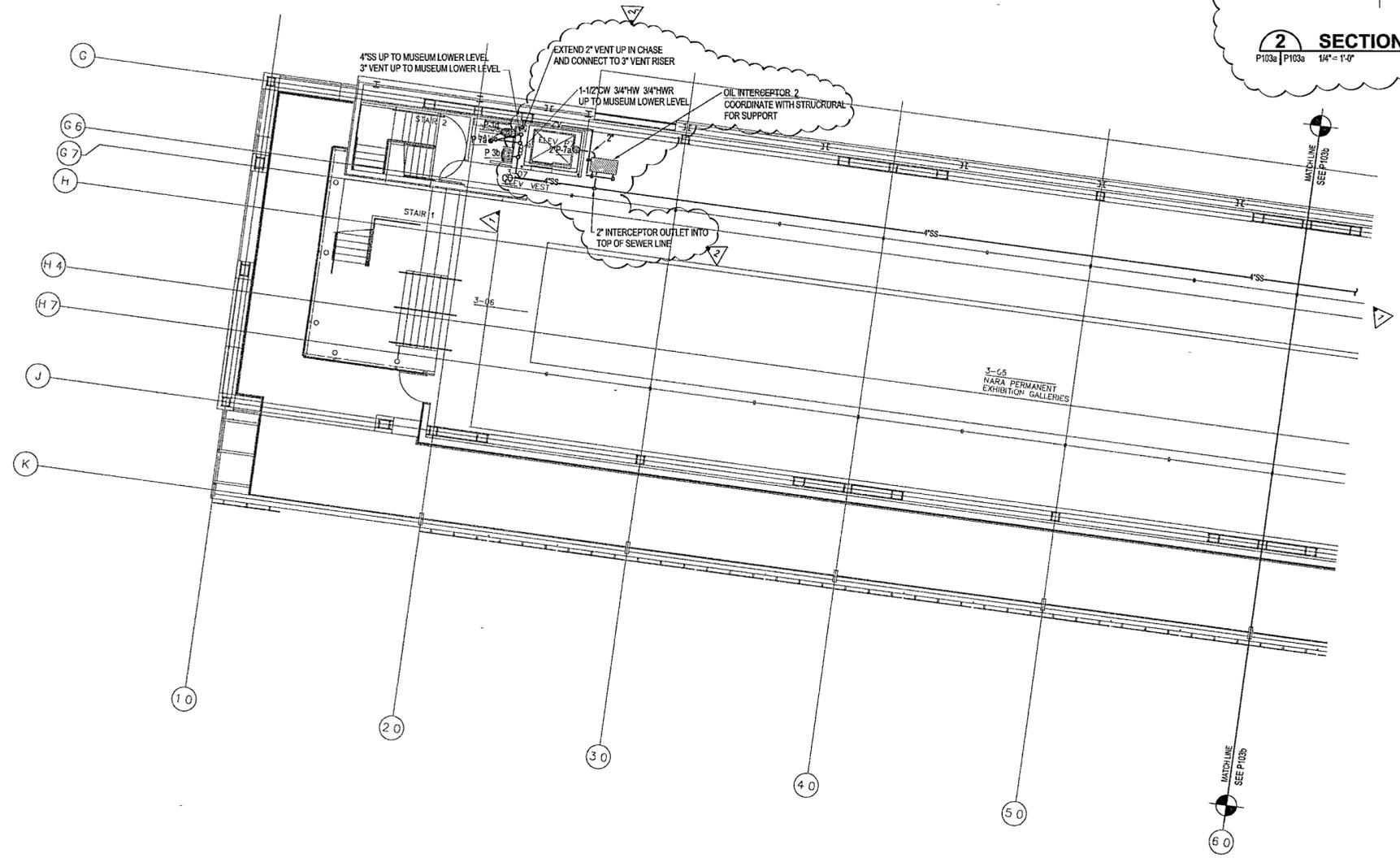
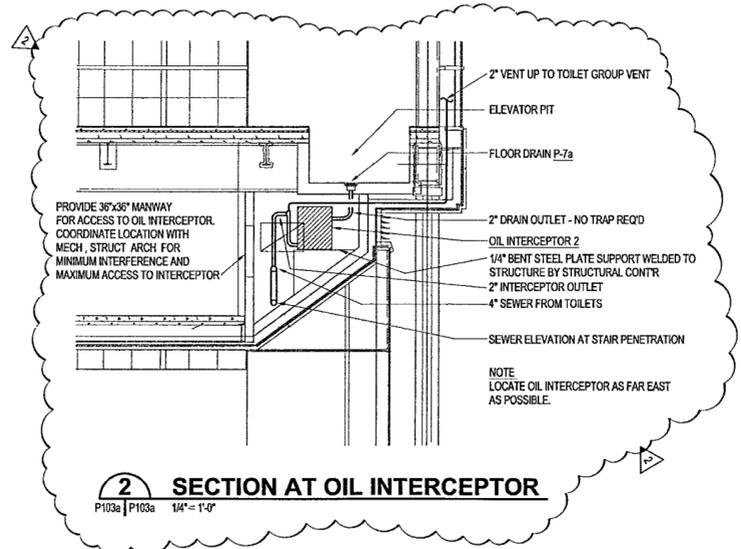
Job No. POLSHEK & PARTNERS ARCH 9908  
CROMWELL AE 99-114

Scale 1/8" = 1'-0"

Date JULY 01, 2002

Title **MUSEUM  
LOWER LEVEL  
PLUMBING  
PARTIAL PLAN**

Sheet No. **P103a**



**1 MUSEUM - LOWER LEVEL PLUMBING PLAN**  
P103a | P103a 1/8" = 1'-0"



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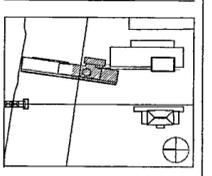
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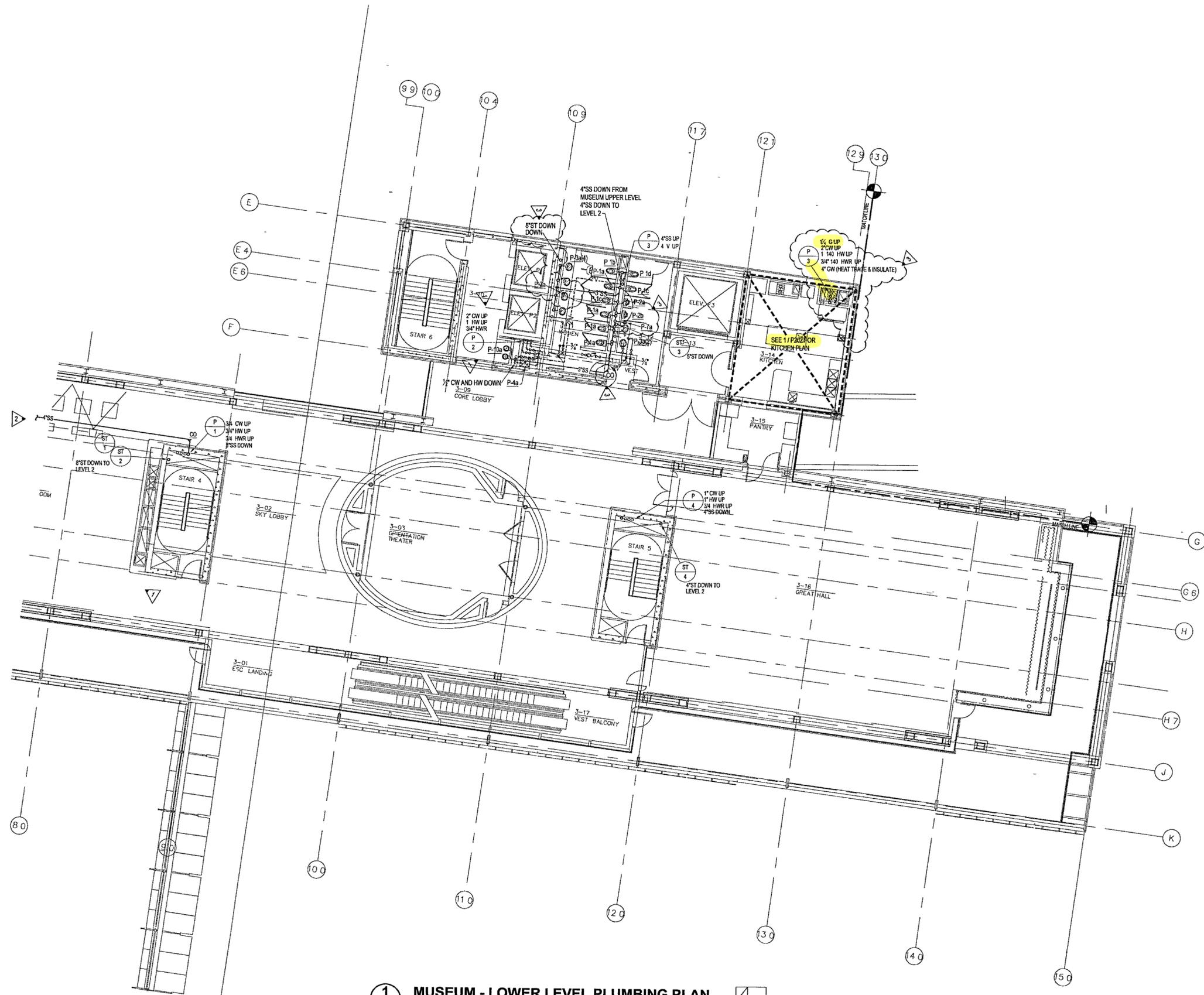
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100% Construction Documents	08/27/02
90% Progress Printing	08/30/02
General Revisions ASI #6	26 Aug 02
General Revisions ASI #3	9 Aug 02
Plumbing Contract Documents	07/01/02
100% Design Development	03/01/02



Job No: POLSHEK & PARTNERS ARCH 9908  
CROMWELL A/E 99-114  
Scale: 1/8" = 1'-0"  
Date: JULY 01, 2002

Title: **MUSEUM  
LOWER LEVEL  
PLUMBING  
PARTIAL PLAN**

Sheet No: **P103b**



**1 MUSEUM - LOWER LEVEL PLUMBING PLAN**  
P103b P103b 1/8" = 1'-0" NORTH

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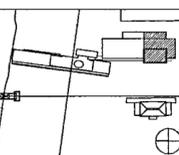
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100% Construction Documents	09/27/02
90% Progress Printing	08/30/02
Permitting Contract Documents	07/14/02
100% Design Development Titled as part of P103c	03/14/02



Job No: POLSHEK & PARTNERS ARCH 0908  
CROMWELL AE 99-114

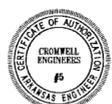
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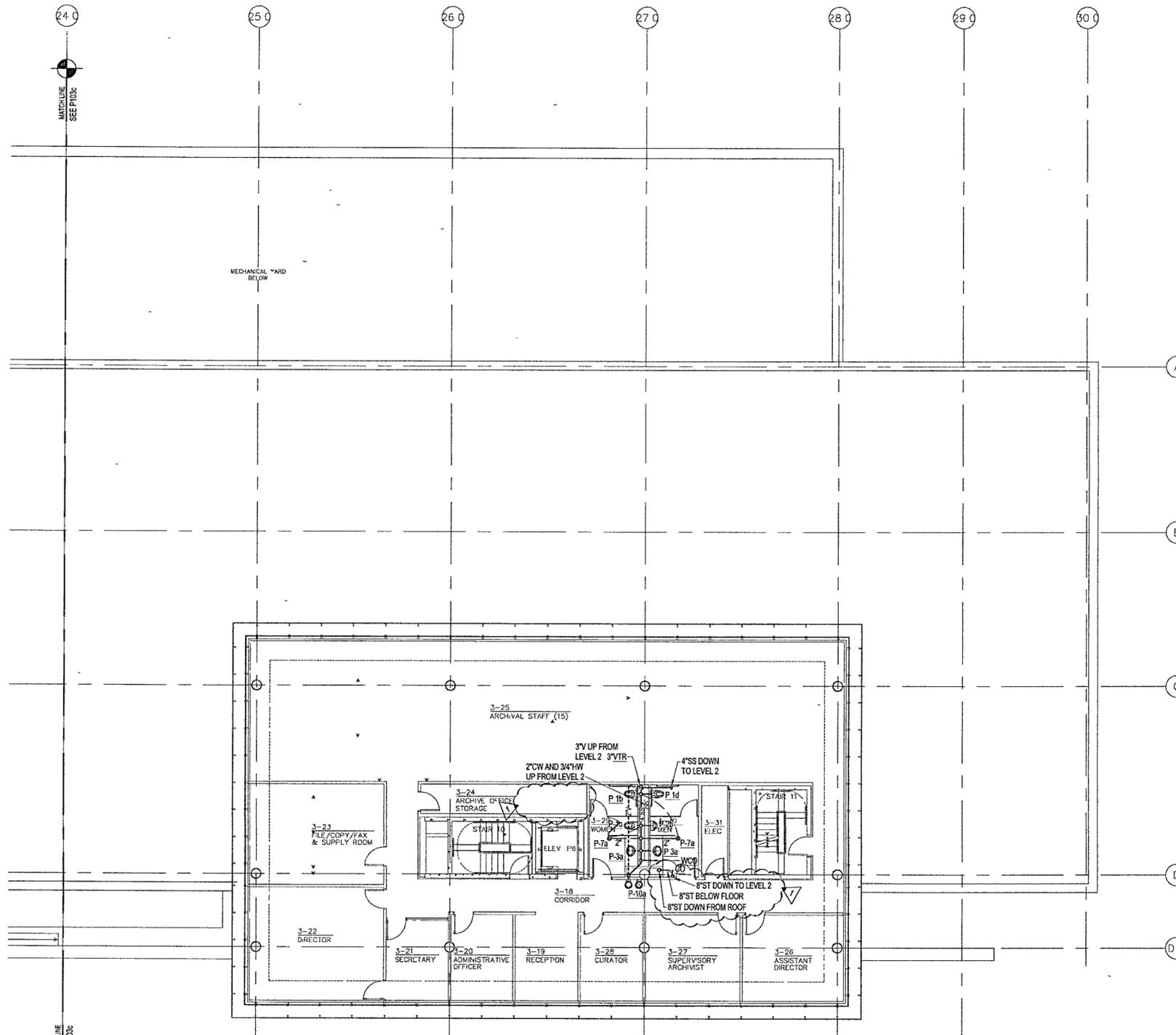
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THIRD LEVEL  
PLUMBING  
PARTIAL PLAN

Sheet No:

**P103d**



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**1 ARCHIVES - THIRD LEVEL PLUMBING PLAN**  
P103d | P103d 1/8" = 1'-0"



1/14

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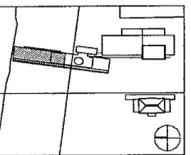
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Issue	Date
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General Revisions ASI #3	9 Aug 02
Plumbing Contract Documents	07/01/02
100% Design Development	03/01/02



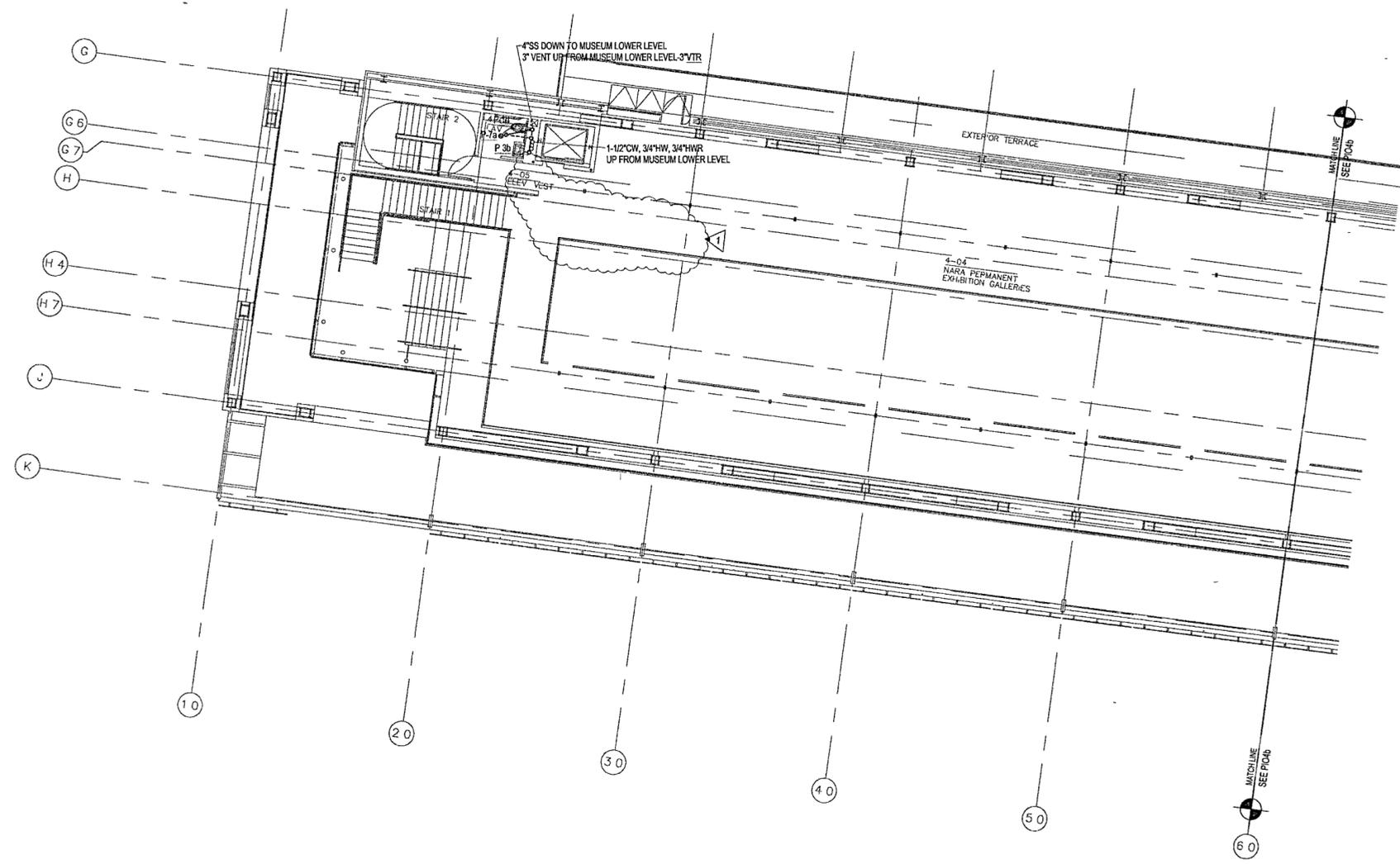
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Date: JULY 01, 2002

Title: **MUSEUM  
UPPER LEVEL  
PLUMBING  
PARTIAL PLAN**  
Sheet No.

**P104a**



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**1 MUSEUM - UPPER LEVEL PLUMBING PLAN**  
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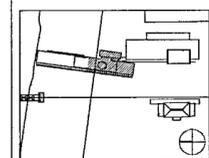
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General Revisions ASI #3	9 Aug 02
Plumbing Contract Documents	07/01/02
100% Design Development	03/01/02



Job No: POLSHEK & PARTNERS ARCH 9908  
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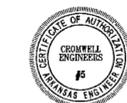
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Date: JULY 01 2002

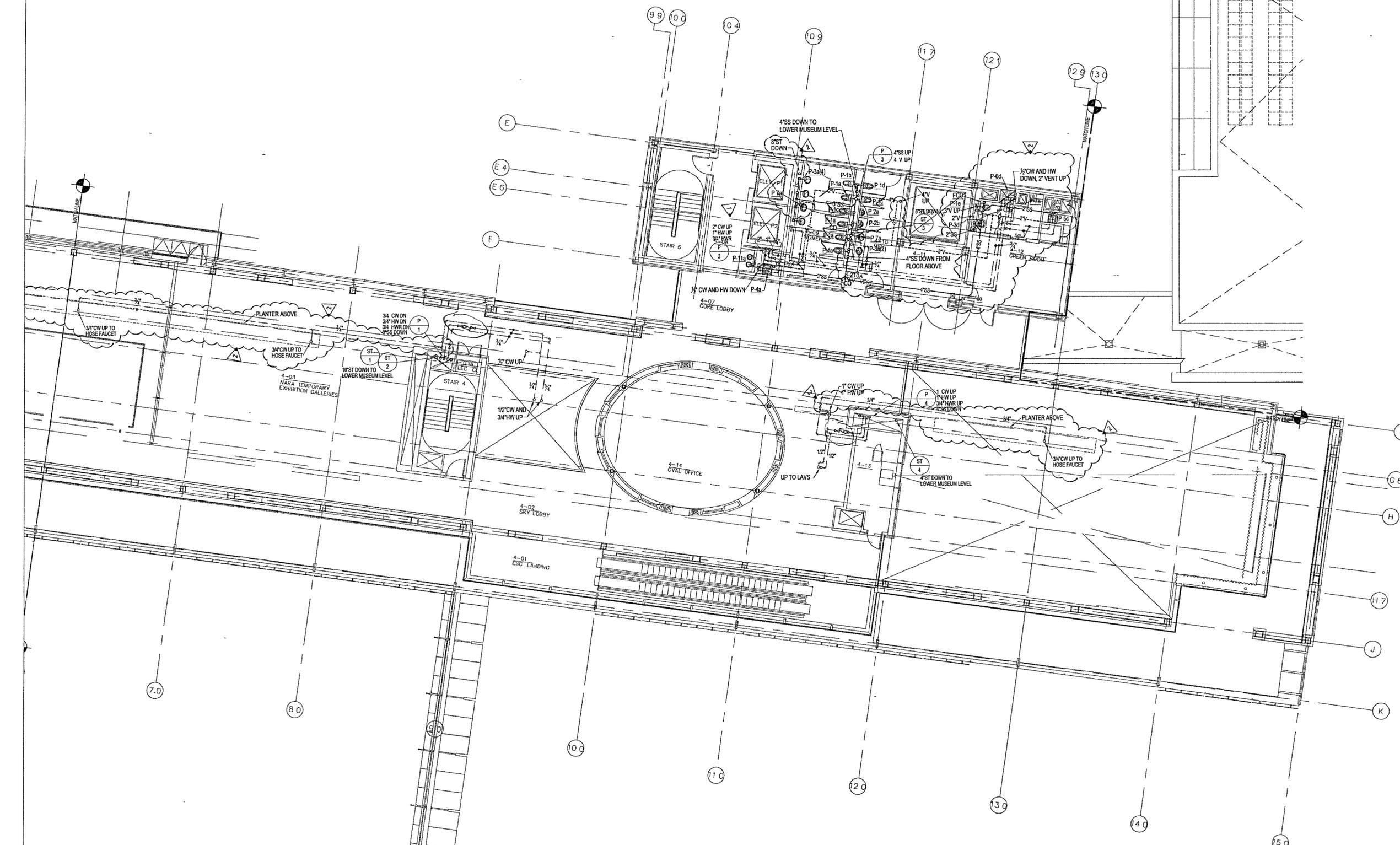
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UPPER LEVEL  
PLUMBING  
PARTIAL PLAN**

Sheet No.

**P104b**



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**1 MUSEUM - UPPER LEVEL PLUMBING PLAN**  
P104b P104c 1/8" = 1'-0"



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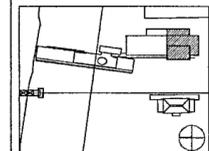
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ISSUE - JULY 1, 2002**

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Issue	Date
100% Construction Documents	09/27/02
90% Progress Printing	08/29/02
Plumbing Contract Documents	07/01/02
100% Design Development Filed as part of P104c	03/01/02



Job No. POLSHEK & PARTNERS ARCH. 9908  
CROMWELL AE. 99-114

Scale: 1/8" = 1'-0"

Date: JULY 01, 2002

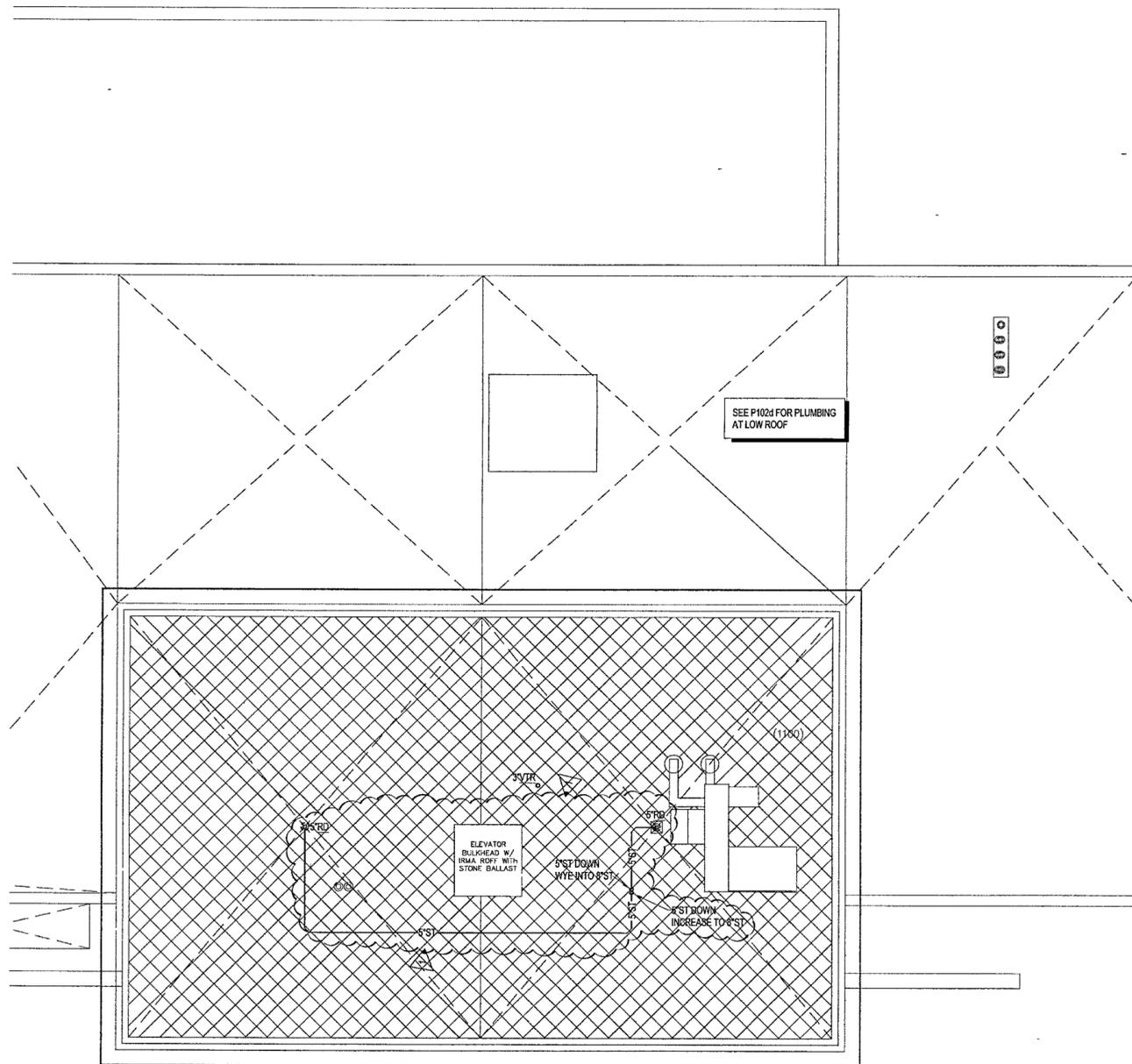
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THIRD LEVEL ROOF  
PLUMBING  
PARTIAL PLAN**

Sheet No.

**P104d**



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P104d | P104d 1/8" = 1'-0"





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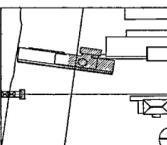
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ISSUE - JULY 1, 2002**



Issue	Date
100% Construction Documents	09/27/02
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General Revisions ASI #3	9 Aug 02
Plumbing Contract Documents	07/01/02
100% Design Development	03/01/02



Job No. POLSHEK & PARTNERS ARCH 9908  
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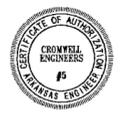
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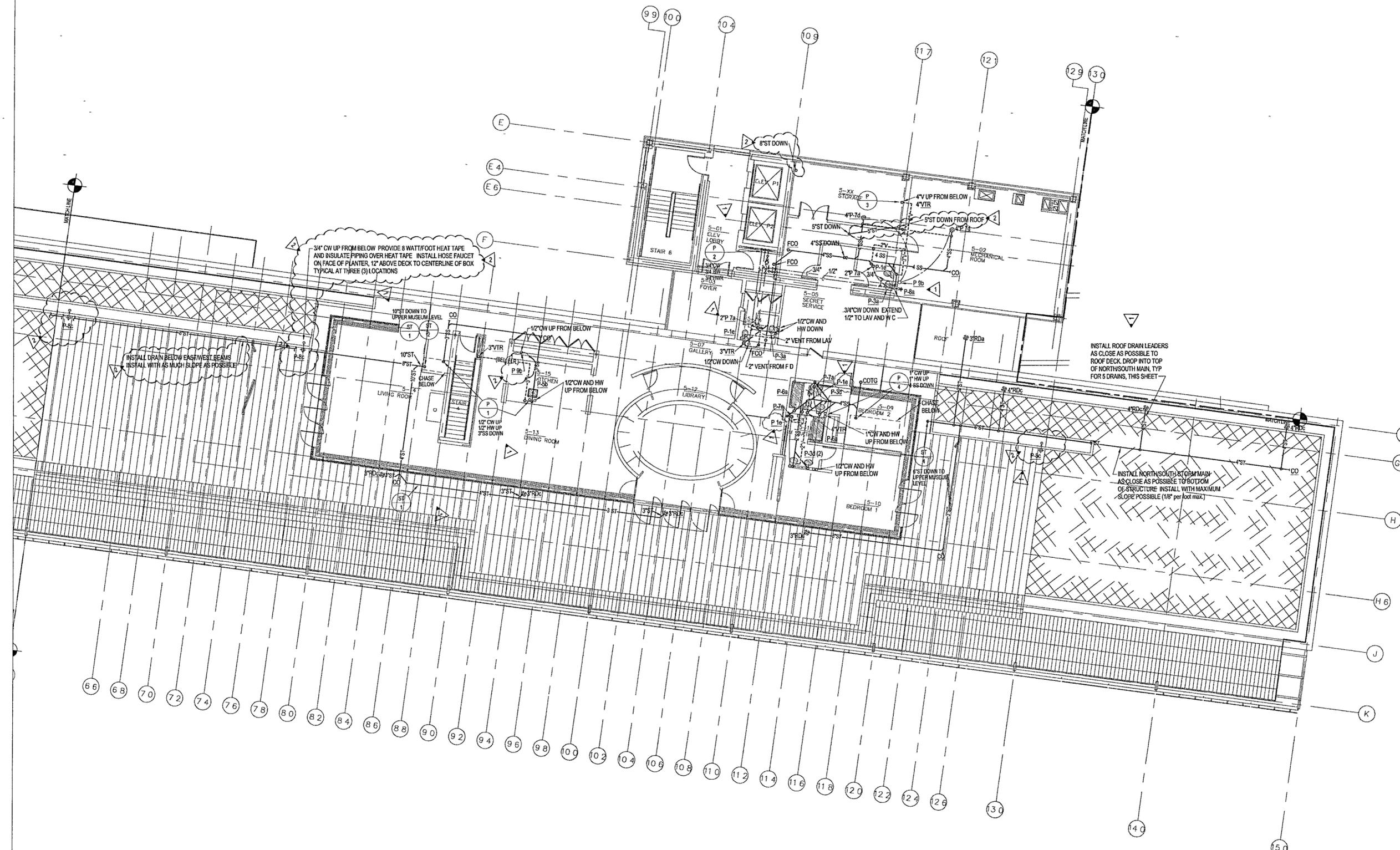
Title EXECUTIVE LEVEL  
PLUMBING  
PARTIAL PLAN

Sheet No.

**P105b**



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**1 EXECUTIVE LEVEL - PLUMBING PLAN**

P105b | P105b 1/8" = 1'-0"



154B

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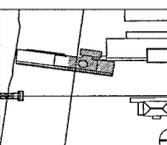
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Issue	Date
100% Construction Documents	09/27/02
100% Design Development	03/01/02



Job No. POLISHEK & PARTNERS ARCH 9908  
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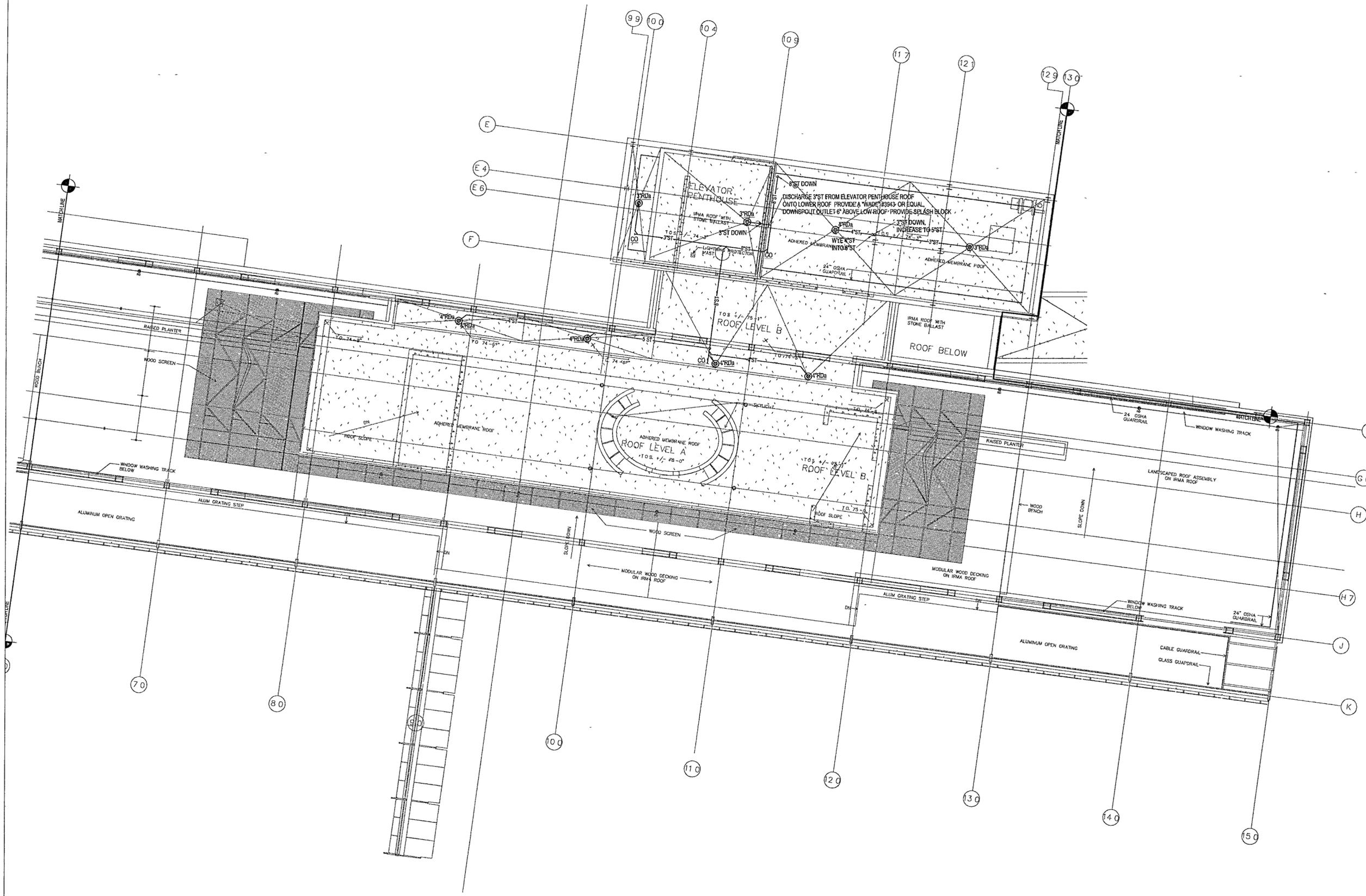
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**EXECUTIVE LEVEL  
PLUMBING  
ROOF PLAN**

Sheet No. **P106b**



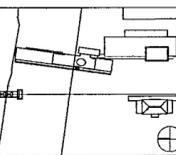
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Issue	Date
100% Construction Documents	06/27/02
90% Progress Printing	06/30/02
General Revision: ASI #3	9 Aug 02
Plumbing Contract Documents	07/01/02



Job No: POLSHEK & PARTNERS ARCH 9908  
CROMWELL AE 99-114

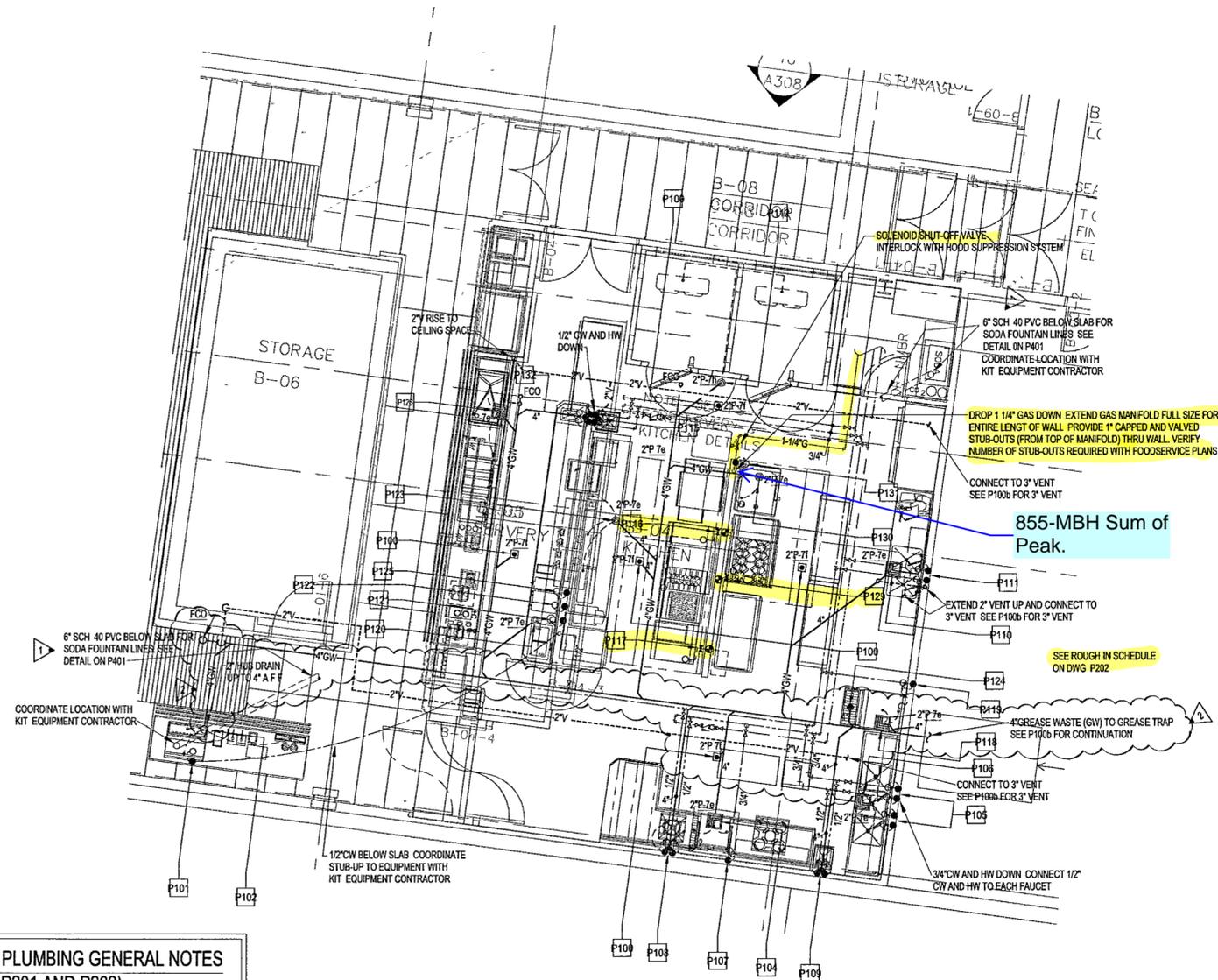
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Date: JULY 01 2002

Title:  
**ENLARGED  
BASEMENT  
KITCHEN PLAN**

Sheet No:

**P201**



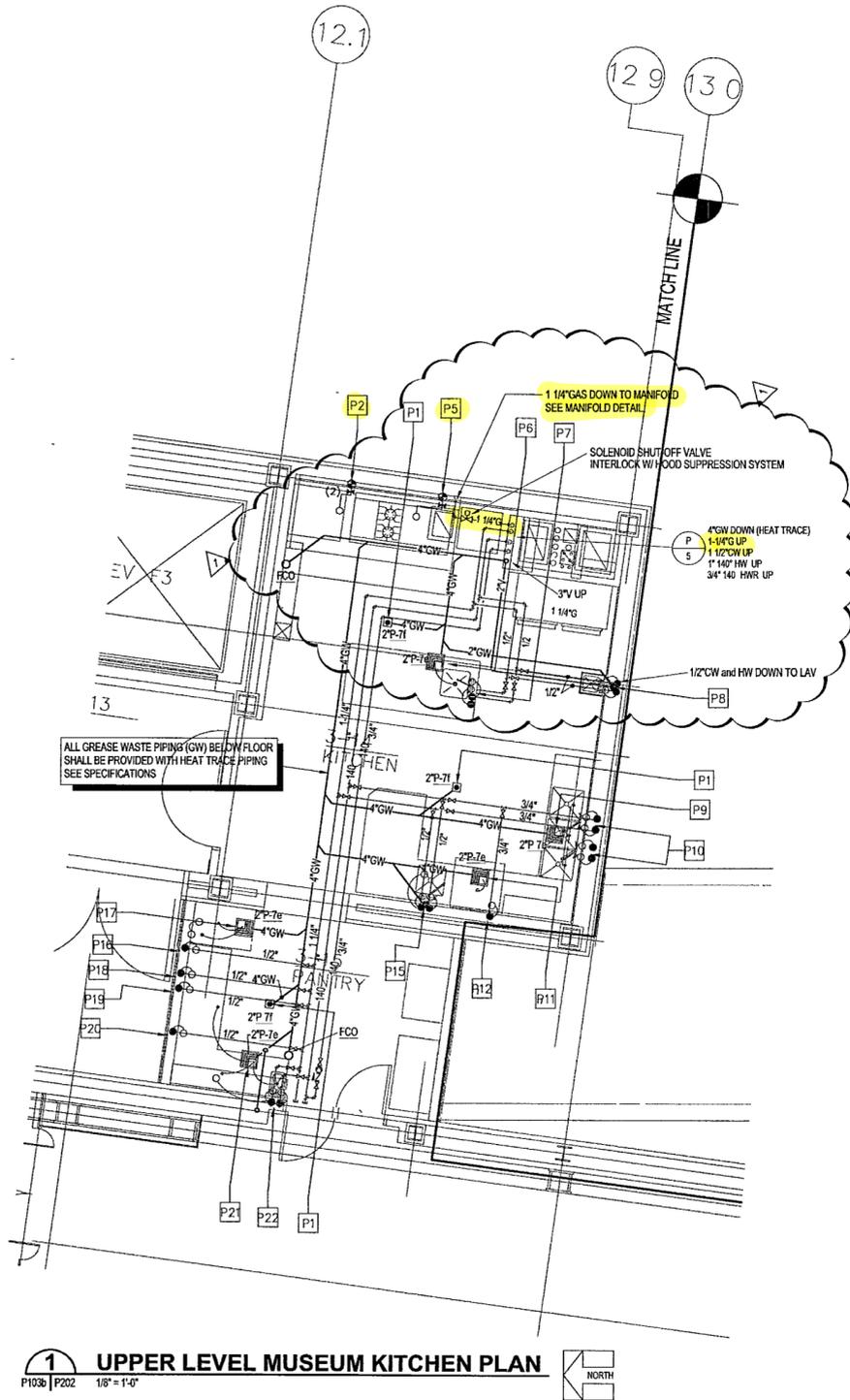
**KITCHEN EQUIPMENT PLUMBING GENERAL NOTES  
(TYPICAL FOR DWGS P201 AND P202)**

- 1 PLUMBING CONTRACTOR TO PROVIDE FINAL CONNECTIONS TO ALL KITCHEN EQUIPMENT ITEMS PER LOCAL, STATE AND NATIONAL PLUMBING CODES
- 2 PLUMBING CONTRACTOR TO VERIFY REQUIREMENTS OF ALL KITCHEN EQUIPMENT ITEMS PROVIDED BY OTHERS BEFORE ROUGHING IN AND MAKING FINAL CONNECTIONS
- 3 PLUMBING CONTRACTOR TO FURNISH AND INSTALL ALL SHUT-OFF VALVES, SHOCK ABSORBERS, SNAP ACTION VALVES, TRIM, TRAPS, ETC. REQUIRED FOR FINAL CONNECTION TO OUTLETS
- 4 PLUMBING CONTRACTOR TO FURNISH, INSTALL AND CONNECT ALL WATER, DRAIN, INDIRECT DRAIN LINES, ETC. FOR ALL KITCHEN EQUIPMENT
- 5 PLUMBING CONTRACTOR TO FLUSH ALL LINES BEFORE MAKING FINAL CONNECTIONS
- 6 REFER TO FOODSERVICE PLANS FOR ROUGH IN CONNECTIONS

**1 BASEMENT KITCHEN ENLARGED PLAN**  
P101b | P202 1/4" = 1'-0"



15/08



**1 UPPER LEVEL MUSEUM KITCHEN PLAN**  
 P103b P202 1/8" = 1'-0"

**PLUMBING ROUGH-IN SCHEDULE (TYPICAL FOR DWGS P201 AND P202)**

<p>P1 AREA FLOOR DRAINS See Mechanical Plans for fixture specifications</p> <p><b>P2 DOUBLE DECK CONVECTION OVEN</b> Plumber to supply disconnect.  <b>NATURAL GAS (2) 3/4" BTU 120,000</b>      GAS NOTE Two (2) gas rough-in locations required @+24" A F F &amp; @+48" A F F      Plumber to BTC thru gas quick disconnect kit (by KEC)</p> <p>P3 SPARE NUMBER</p> <p>P4 SPARE NUMBER</p> <p><b>P5 GRIDDLE/OPEN BURNER RANGE</b>  <b>NATURAL GAS 1-1/4" BTU 130,000</b>      HT + 24" AFF      GAS NOTE Plumber to BTC thru gas quick disconnect kit (by KEC)</p> <p>P6 FLOOR SINK Drains from item #15      INDIRECT WASTE 1-1/2" TYPE FS      HT + 0" AFF</p> <p>P7 S/S WORK TABLE W/SINK Drains to P6      Plumber to bring hot &amp; cold water down from ceiling via S/S chase integral with this item      SUPPLY CW 1/2" HW 1/2" HT + 102" AFF      INDIRECT WASTE 1-1/2" TYPE NONE      HT + 0" AFF</p> <p>P8 HAND SINK W/SOAP &amp; TOWEL DISP      SUPPLY CW 1/2" HW 1/2" HT + 22" AFF      DIRECT WASTE 1-1/2" TYPE NONE      HT + 20" AFF</p> <p>P9 FLOOR SINK Drains from item #19      INDIRECT WASTE (3) 2" TYPE FS      HT + 0" AFF</p> <p>P10 THREE COMPARTMENT POT SINK Drains to P9      Two (2) rough-in location required      SUPPLY CW 3/4" HW 3/4" HT + 14" AFF      INDIRECT WASTE (3) 2" TYPE NONE      HT + 0" AFF</p> <p>P11 FLOOR SINK Drains from items #22 &amp; #28      INDIRECT WASTE 2", 1/2" TYPE FS      HT + 0" AFF</p> <p>P12 DISH MACHINE W/BOOSTER Drains to P11      SUPPLY HW 3/4" HT + 8" AFF      INDIRECT WASTE 2" TYPE NONE      HT + 0" AFF</p> <p>P13 SPARE NUMBER</p> <p>P14 SPARE NUMBER</p> <p>P15 GARBAGE DISPOSAL, 2 HP. Plumber to BTC CW from Item #27 (Pre-Rinse Assembly)      SUPPLY CW 1/2" HT + 0" AFF      DIRECT WASTE 2" TYPE NONE      HT + 10" AFF</p> <p>P15 PRE-RINSE UNIT Plumber to BTC Through to Item #25      SUPPLY CW 1/2" HW 1/2" HT + 14" AFF</p>	<p>P16 WATER FILTER Plumber to BTC cold water through to Item #30      SUPPLY CW 1/2" HT + 94" AFF</p> <p>P17 FLOOR SINK Drains from items #29 &amp; #30      INDIRECT WASTE 1", 3/4" TYPE FS      HT + 0" AFF</p> <p>P18 SINGLE AIRPOT COFFEE BREWER      SUPPLY CW 1/2" HT + 48" AFF</p> <p>P19 ICE TEA BREWER      SUPPLY CW 1/2" HT + 48" AFF</p> <p>P20 COFFEE URN      SUPPLY CW 1/2" HT + 48" AFF</p> <p>P21 FLOOR SINK Drains from items #31, #39, &amp; #40      INDIRECT WASTE (3) 1/2", 1-1/2" TYPE FS HT + 0" AFF</p> <p>P22 S/S BUILT-IN HAND SINK Drains to P21      Plumber to BTC cold water to water station (item #38)      SUPPLY CW 1/2" HW 1/2" HT + 14" AFF</p> <p>INDIRECT WASTE 1-1/2"</p> <p>P100 AREA FLOOR DRAINS See Mechanical Plans for fixture specifications</p> <p>P101 ICE &amp; BEVERAGE DISPENSER</p> <p>P101 Drains to P102      Plumber to stub cold water up floor for this item      SUPPLY CW 1/2" HT + 12" AFF      INDIRECT WASTE 1", 3/4"      HT + 0" AFF</p> <p>P102 FLOOR SINK Drains from item #100 &amp; #101      INDIRECT WASTE 1", 3/4", 1/2" TYPE FS HT + 0" AFF</p> <p>P103 SPARE NUMBER</p> <p>P104 FLOOR SINK Drains from items #113 &amp; #115      INDIRECT WASTE 1", 2" TYPE FS      HT + 0" AFF</p> <p>P105 THREE COMPARTMENT POT SINK P112 Drains to P106      Two (2) rough-in locations required      SUPPLY CW 3/4" HW 3/4" HT + 14" AFF      INDIRECT WASTE (3) 2" TYPE NONE      HT + 0" AFF</p> <p>P106 FLOOR SINK Drains from item #112      INDIRECT WASTE (3) 2" TYPE FS      HT + 0" AFF</p> <p>P107 DISH MACHINE W/BOOSTER      P115 Drains to P104      140 degree F minimum hot water connection      SUPPLY HW 3/4" HT + 8" AFF      DIRECT WASTE 2" TYPE NONE      HT + 0" AFF</p>	<p>P108 GARBAGE DISPOSAL, 2 HP. Plumber to BTC CW from Item #116 1 (Pre-Rinse Assembly)      SUPPLY CW 1/2" HT + 0" AFF      DIRECT WASTE 2" TYPE NONE      HT + 10" AFF</p> <p>P108 PRE-RINSE UNIT 116 Plumber to BTC CW to Item #116 (Garbage Disposer)      SUPPLY CW 1/2" HT + 14" AFF</p> <p>P109 HAND SINK W/SOAP &amp; TOWEL DISP      SUPPLY CW 1/2" HW 1/2" HT + 22" AFF      INDIRECT WASTE 1-1/2" TYPE NONE      HT + 20" AFF</p> <p>P110 FLOOR SINK Drains from item #121      Provide w/ 3/4" section grate      Install flush or just below finished floor      INDIRECT WASTE (2) 1-1/2" TYPE FS      HT + 0" AFF</p> <p>P111 S/S PREP TABLE W/SINK 121 Drains to P110      SUPPLY CW 1/2" HW 1/2" HT + 14" AFF      INDIRECT WASTE (2) 1-1/2" TYPE NONE HT + 0" AFF</p> <p>P112 OPEN SITE DRAIN Drains from items #126 1 &amp; #127 1      INDIRECT WASTE (2) 1/2" TYPE OSD      HT + 2" AFF</p> <p>P113 COMPRESSOR UNIT 126 Plumber to verify exact location of compressor      * 1/2" condenser water supply and return connections required (from building cooling tower)      SUPPLY CW 1/2" HW HT + 0" AFF</p> <p>P114 COMPRESSOR UNIT 127 Plumber to verify exact location of compressor      * 1/2" condenser water supply and return connections required (from building cooling tower)      SUPPLY CW 1/2" HW HT + 0" AFF</p> <p>P115 HAND SINK W/SOAP &amp; TOWEL DISP      SUPPLY CW 1/2" HW 1/2" HT + 22" AFF      DIRECT WASTE 1-1/2" TYPE NONE      HT + 20" AFF</p> <p><b>P116 SPREADER PLATE CABINET</b>  <b>NATURAL GAS 1-1/4" BTU 190,000</b>      HT + 24" AFF      GAS NOTE Plumber to BTC thru gas quick disconnect kit (by KEC)      Plumber to BTC to the following      Hot Top/Two Burner Range (#138)      130,000 BTUs      Char Broiler (#139) - 60,000 BTUs</p> <p><b>P117 HEAVY DUTY GAS FRYER</b>  <b>NATURAL GAS 1" BTU 80,000</b>      HT + 24" AFF      GAS NOTE Plumber to BTC thru gas quick disconnect kit (by KEC)</p> <p>P118 FLOOR SINK Drains from items #146 &amp; #147      INDIRECT WASTE 1", 3/4" TYPE FS      HT + 0" AFF</p> <p>P119 WATER FILTER 147 Plumber to BTC cold water through to item #147      SUPPLY CW 1/2" HT + 96" AFF</p> <p>P120 OPEN SITE DRAIN Drains from item #155      INDIRECT WASTE 1/2" TYPE OSD      HT + 2" AFF</p> <p>P121 S/S WORK TABLE 155 Plumber to connect to dipperwell      Drains to P120</p>	<p>1/2" SUPPLY CW HW HT + 18" AFF      INDIRECT WASTE 1/2" TYPE NONE      HT + 0" AFF</p> <p>P122 TWIN AIRPOT BREWER w/FAUCET 149      SUPPLY CW 1/2" HT + 48" AFF</p> <p>P123 OPEN SITE DRAIN Drains from item #136      INDIRECT WASTE (3) 1/2" TYPE OSD      HT + 2" AFF</p> <p>P124 FLOOR TROUGH      DIRECT WASTE 3" TYPE NONE      HT + 16" AFF</p> <p>P125 ICE TEA BREWER      SUPPLY CW 1/2" HT + 48" AFF</p> <p>P126 FLOOR SINK Drains from items #160 &amp; #161      INDIRECT WASTE (4) 1-1/2" TYPE FS      HT + 0" AFF</p> <p>P127 COMPRESSOR UNIT 136 1 Plumber to verify exact location of compressor      * 1/2" condenser water supply and return connections required (from building cooling tower)      SUPPLY CW 1/2" HT + 0" AFF</p> <p>P128 COMPRESSOR UNIT 136 2 P. Plumber to verify exact location of compressor      * 1/2" condenser water supply and return connections required (from building cooling tower)      SUPPLY CW 1/2" HT + 0" AFF</p> <p><b>P129 HEAVY DUTY GAS RANGE</b>  <b>NATURAL GAS 1" BTU 215,000</b>      HT + 24" AFF      GAS NOTE Plumber to BTC thru gas quick disconnect kit (by KEC)</p> <p>P130 OPEN SITE DRAIN Drains from item #176      INDIRECT WASTE 2" TYPE OSD      HT + 2" AFF</p> <p>P131 KLEENSTEAM SYSTEM 176 1 P. Plumber to BTC thru to Item #176 (Comb Oven)      Plumber to completely install Filter, as provided by the KEC      SUPPLY CW 1/2" HT + 96" AFF</p> <p>P132 S/S BUILT-IN HAND SINK P154      SUPPLY CW 1/2" HW 1/2" HT + 20" AFF      DIRECT WASTE 1-1/2" TYPE NONE      HT + 18" AFF</p>
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**KITCHEN EQUIPMENT PLUMBING GENERAL NOTES (TYPICAL FOR DWGS P201 AND P202)**

- 1 PLUMBING CONTRACTOR TO PROVIDE FINAL CONNECTIONS TO ALL KITCHEN EQUIPMENT ITEMS PER LOCAL, STATE AND NATIONAL PLUMBING CODES
- 2 PLUMBING CONTRACTOR TO VERIFY REQUIREMENTS OF ALL KITCHEN EQUIPMENT ITEMS PROVIDED BY OTHERS BEFORE ROUGHING IN AND MAKING FINAL CONNECTIONS
- 3 PLUMBING CONTRACTOR TO FURNISH AND INSTALL ALL SHUT-OFF VALVES, SHOCK ABSORBERS, SNAP ACTION VALVES, TRIM, TRAPS, ETC. REQUIRED FOR FINAL CONNECTION TO OUTLETS
- 4 PLUMBING CONTRACTOR TO FURNISH, INSTALL AND CONNECT ALL WATER, DRAIN, INDIRECT DRAIN LINES, ETC. FOR ALL KITCHEN EQUIPMENT
- 5 PLUMBING CONTRACTOR TO FLUSH ALL LINES BEFORE MAKING FINAL CONNECTIONS
- 6 REFER TO FOODSERVICE PLANS FOR ROUGH-IN CONNECTIONS

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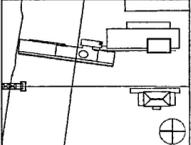
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 ISSUE - JULY 1, 2002



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90% Progress Printing	09/30/02
Plumbing Contract Documents	07/01/02
Issue	Date



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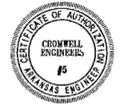
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Title  
**ENLARGED  
 MUSEUM LOWER LEVEL  
 KITCHEN PLAN  
 and ROUGH-IN NOTES**

Sheet No

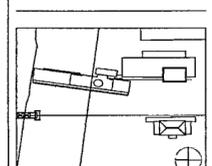
**P202**



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90% Progress Printing	06/30/02
Plumbing Contract Documents	07/01/02
100% Design Development	03/01/02
Issue	Date



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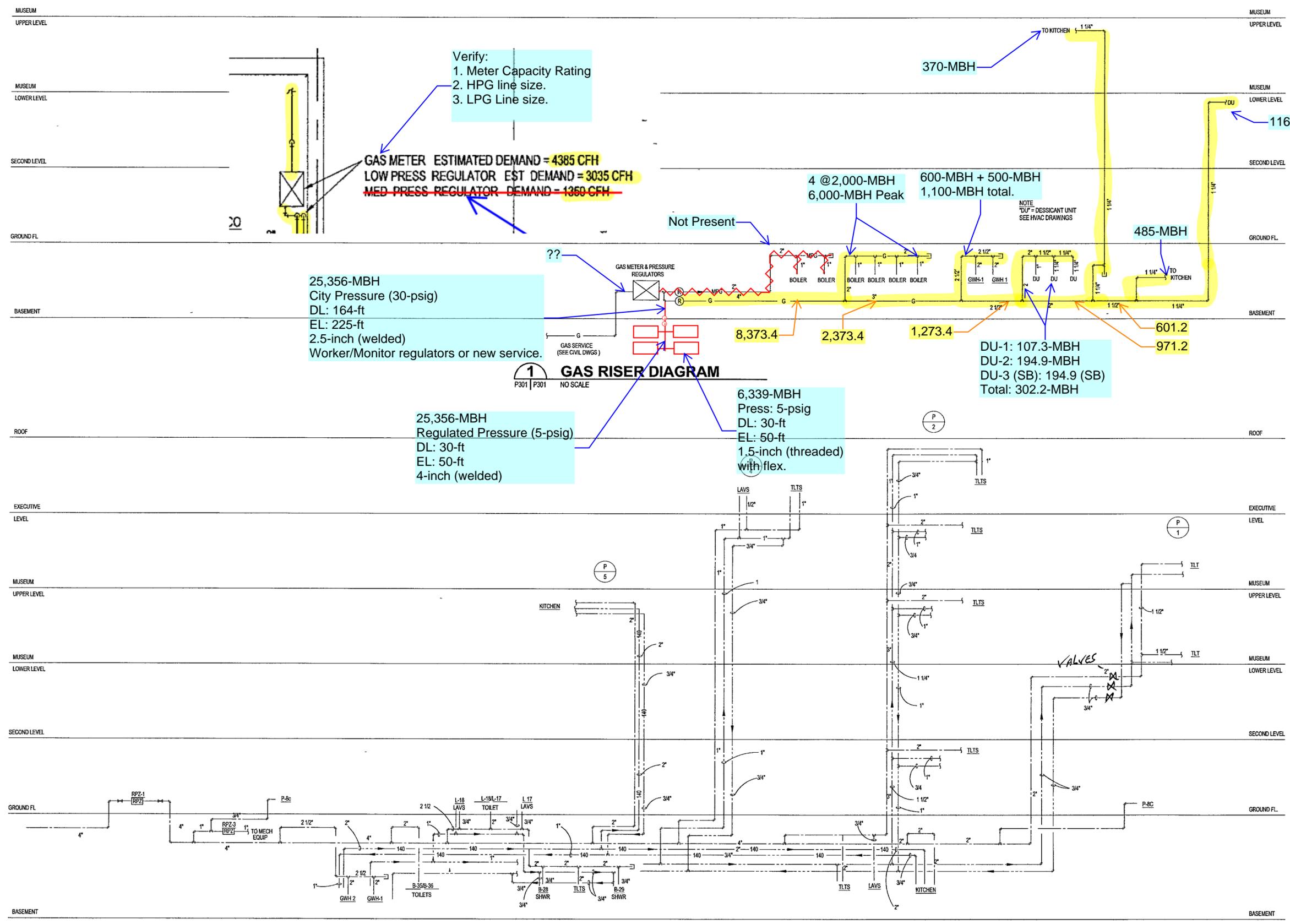
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Title: **PLUMBING  
DOMESTIC WATER &  
GAS RISER DIAGRAMS**

Sheet No: **P301**



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Verify:  
1. Meter Capacity Rating  
2. HPG line size.  
3. LPG Line size.

**GAS METER ESTIMATED DEMAND = 4385 CFH**  
**LOW PRESS REGULATOR EST DEMAND = 3035 CFH**  
~~MED PRESS REGULATOR DEMAND = 1350 CFH~~

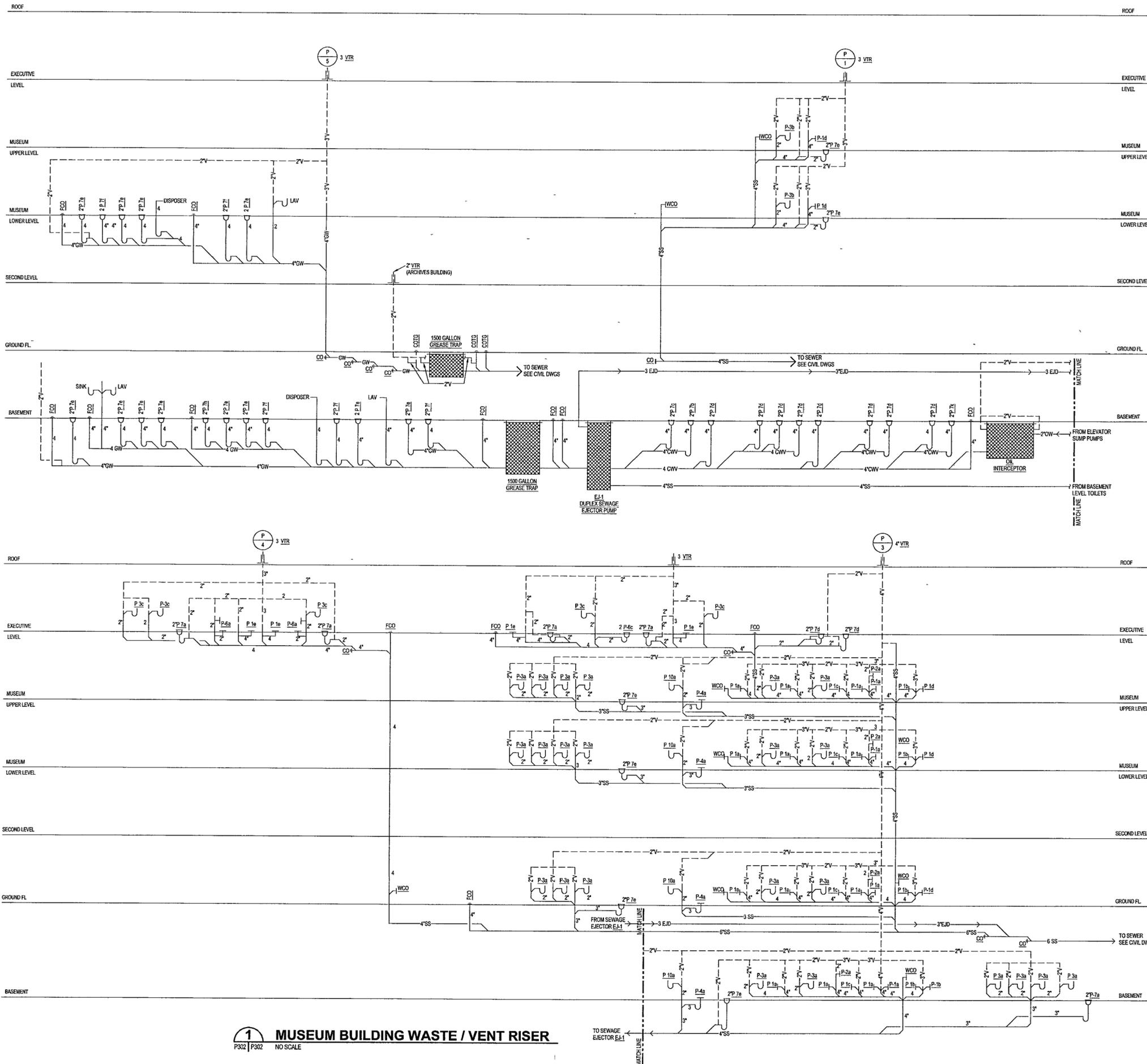
25,356-MBH  
City Pressure (30-psig)  
DL: 164-ft  
EL: 225-ft  
2.5-inch (welded)  
Worker/Monitor regulators or new service.

25,356-MBH  
Regulated Pressure (5-psig)  
DL: 30-ft  
EL: 50-ft  
1.5-inch (threaded)  
4-inch (welded)

**1 GAS RISER DIAGRAM**  
P301 | P301 NO SCALE

**2 DOMESTIC WATER RISER DIAGRAM**  
P301 | P301 NO SCALE

1535



**1 MUSEUM BUILDING WASTE / VENT RISER**  
 P302 | P302 NO SCALE



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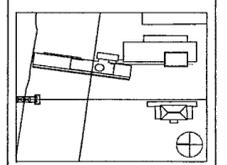
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100% Design Development	03/01/02
Filed as P301	



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 CROMWELL AE 99-114

Scale:  
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Title:  
**PLUMBING  
 SANITARY RISER  
 DIAGRAM**

Sheet No:  
**P302**

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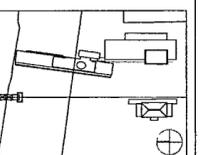
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Issue	Date
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General Revisions - ASI #6	26 Aug 02
General Revisions - ASI #3	9 Aug 02
Plumbing Contract Documents	07/01/02

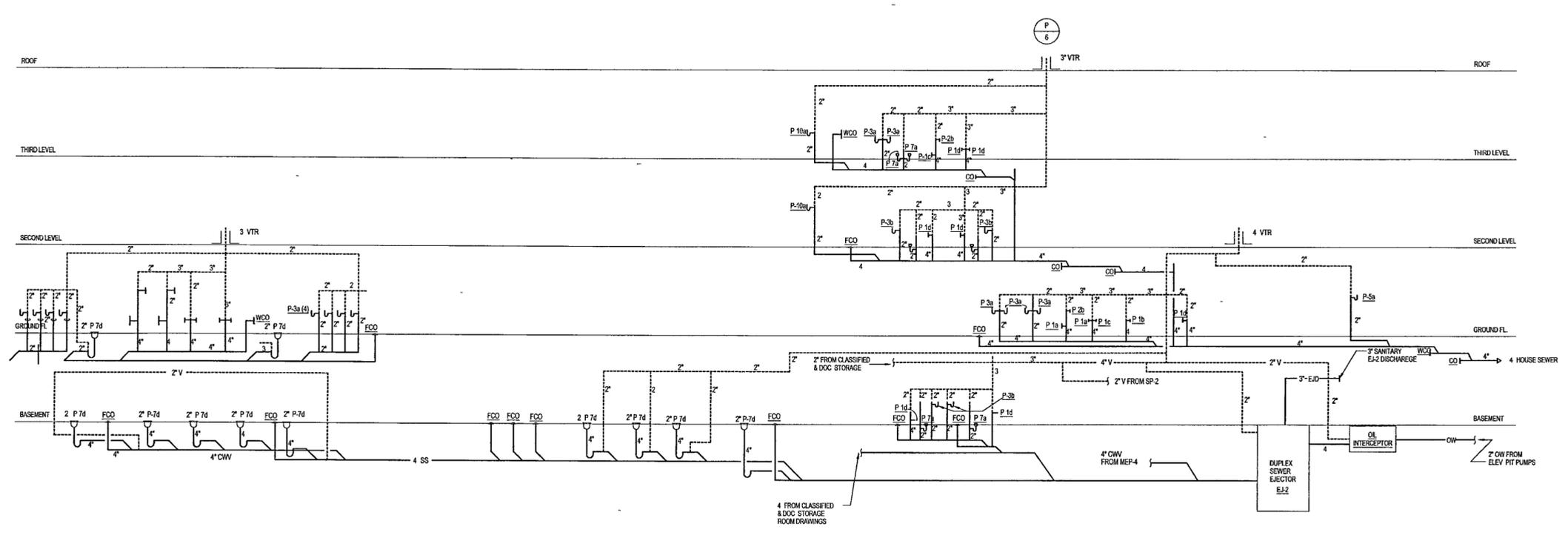


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CROMWELL AE 99-114

Scale:  
Date: JULY 01 2002

Title:  
**ARCHIVES  
WASTE and VENT  
RISER DIAGRAM**

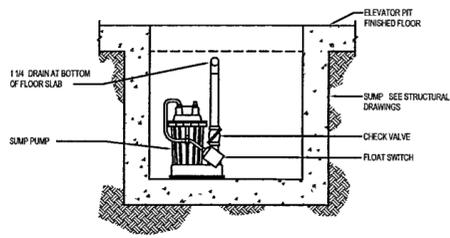
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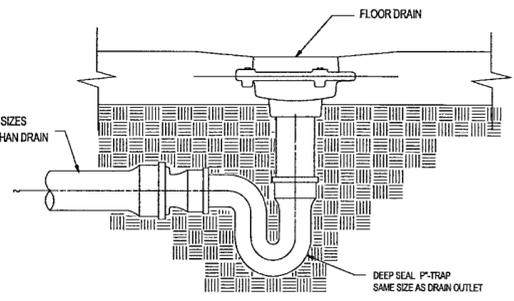
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P303 | F303 NO SCALE



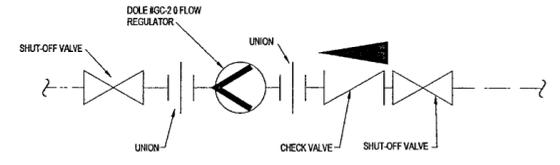
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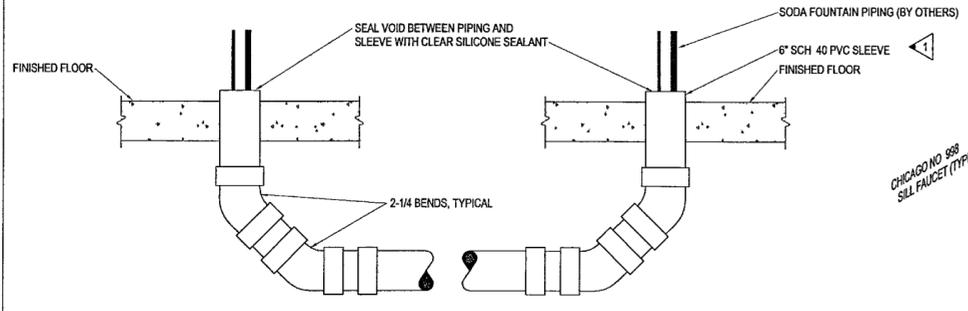
**1 ELEVATOR SUMP PUMP**  
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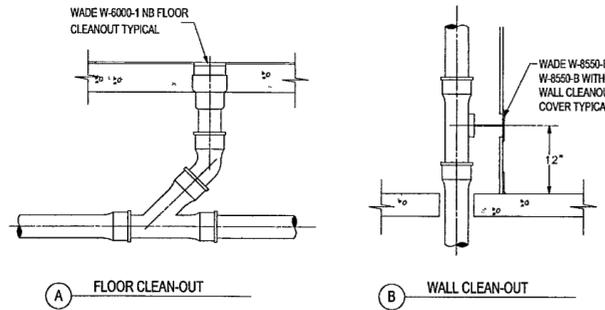
**5 COMBINATION WASTE AND VENT DRAIN**  
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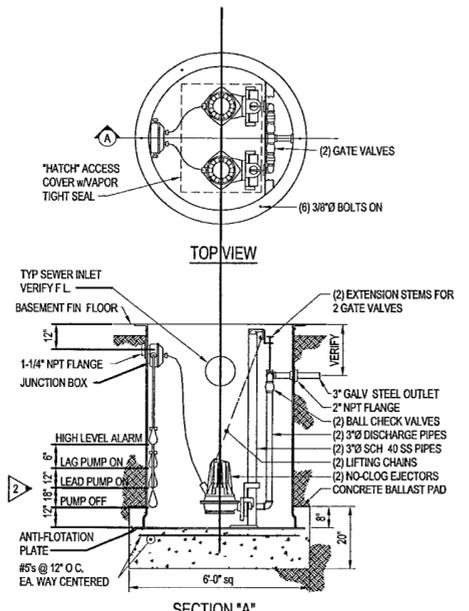
**7 TYPICAL H.W. RECIRC FLOW CONTROL**  
P3 01 | P3 01 NO SCALE



**9 UNDERFLOOR SODA LINE SLEEVE**  
P2 01 | P2 01 NO SCALE

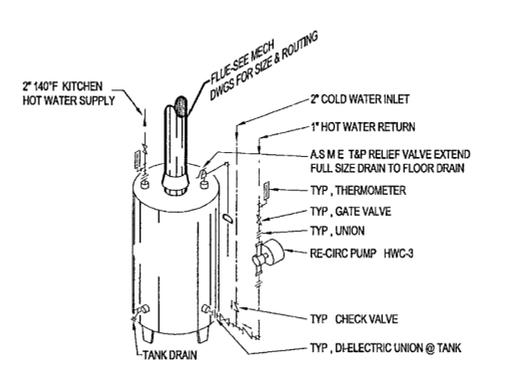


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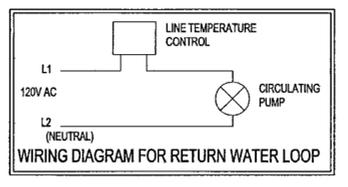


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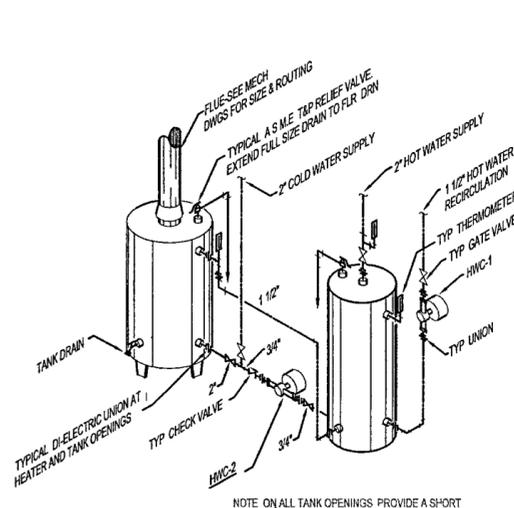
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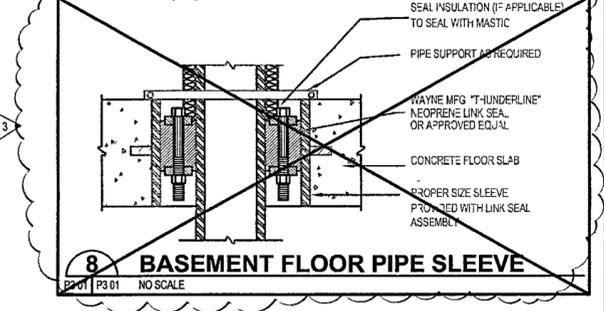
**3 KITCHEN WATER HEATER**  
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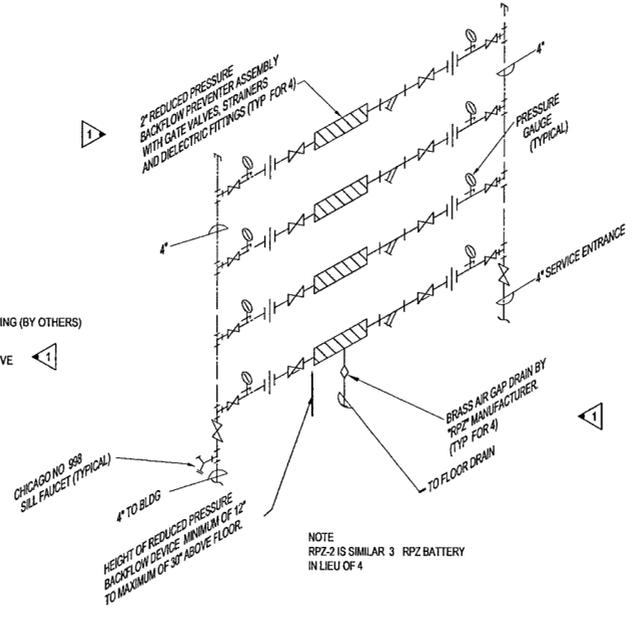
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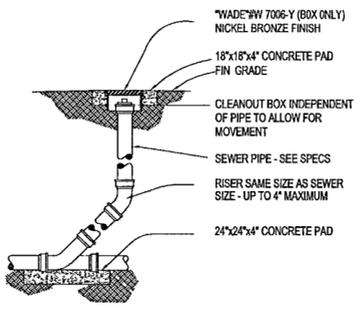
**4 DOMESTIC WATER HEATER**  
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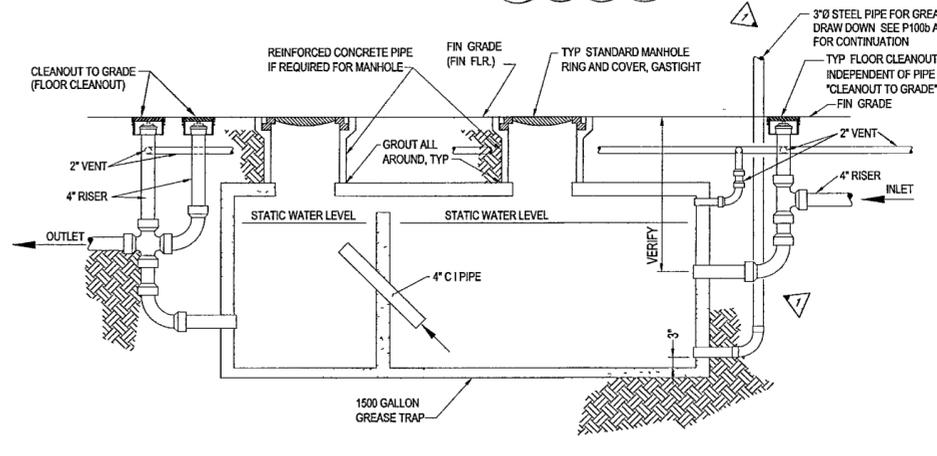
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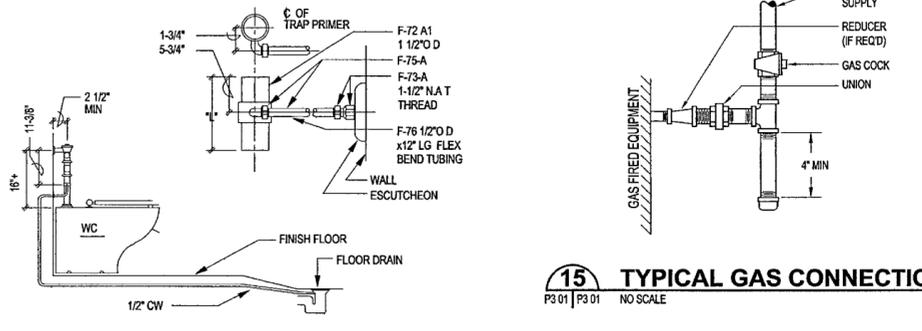
**10 RPZ-1 BACKFLOW PREVENTER**  
P3 01 | P3 01 NO SCALE



**13 CLEANOUT TO GRADE**  
P3 01 | P3 01 NO SCALE



**11 GREASE TRAP - 1500 GALLONS**  
P3 01 | P3 01 NO SCALE



**15 TYPICAL GAS CONNECTION**  
P3 01 | P3 01 NO SCALE

**14 WATER CLOSET TRAP PRIMER**  
P3 01 | P3 01 NO SCALE

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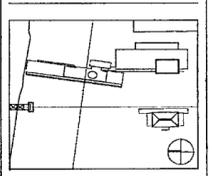
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**100% PLUMBING  
CONSTRUCTION DRAWINGS  
ISSUE - JULY 1, 2002**

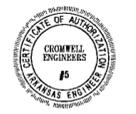


Issue	Date
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General Revisions: ASI #8	25 Aug 02
General Revisions: ASI #3	9 Aug 02
Plumbing Contract Documents	07/01/02



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Sheet No: **P401**



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PLUMBING FIXTURES										
MARK	DESCRIPTION	MFR & MDL	ACCESSORIES	FAUCET & FITTINGS	STOPS	TRAP	WASTE			REMARKS
							ROUGH-IN	HOT	COLD	
P-1a	WATER CLOSET, FLUSH VALVE, A.D.A. WALL MOUNT, TRAP PRIMER	KOHLER #K-4330 "KINGSTON"	CHURCH #9500N SSC SEAT	SLOAN "REGAL" #111-TP FLUSH VALVE w/ TRAP PRIMER	INTEGRAL	INTEGRAL	4"	-	1"	EXTEND TRAP PRIMER LINE TO FLOOR DRAIN AS INDICATED ON PLANS
P-1b	WATER CLOSET, FLUSH VALVE, STANDARD, WALL MOUNT	KOHLER #K-4330 "KINGSTON"	CHURCH #9500N SSC SEAT	SLOAN "REGAL" #111 FLUSH VALVE	INTEGRAL	INTEGRAL	4"	-	1"	PROVIDE CHAIR CARRIER
P-1c	WATER CLOSET, FLUSH VALVE, A.D.A. WALL MOUNT	KOHLER #K-4330 "KINGSTON"	CHURCH #9500N SSC SEAT	SLOAN "REGAL" #111 FLUSH VALVE	INTEGRAL	INTEGRAL	4"	-	1"	PROVIDE CHAIR CARRIER, INSTALL FLUSH VALVE HANDLE TO OPEN SIDE OF STALLROOM
P-1d	WATER CLOSET, FLUSH VALVE, STANDARD, WALL MOUNT, TRAP PRIMER	KOHLER #K-4330 "KINGSTON"	CHURCH #9500N SSC SEAT	SLOAN "REGAL" #111-TP FLUSH VALVE w/ TRAP PRIMER	INTEGRAL	INTEGRAL	4"	-	1"	EXTEND TRAP PRIMER LINE TO FLOOR DRAIN AS INDICATED ON PLANS
P-1e	WATER CLOSET, FLUSH TANK, A.D.A. FLOOR MOUNT	TOTO #CST744SL	TOTO #SS114 SEAT	-	McGUIRE #H166	INTEGRAL	4"	-	1/2"	
P-2a	URINAL, FLUSH VALVE, STANDARD, WALL MOUNT	KOHLER #K-4989 "FRESHMAN"	-	SLOAN "REGAL" #166 FLUSH VALVE	INTEGRAL	INTEGRAL	2"	-	3/4"	PROVIDE CHAIR CARRIER
P-2b	URINAL, FLUSH VALVE, A.D.A. WALL MOUNT	KOHLER #K-4989 "FRESHMAN"	-	SLOAN "REGAL" #166 FLUSH VALVE	INTEGRAL	INTEGRAL	2"	-	3/4"	PROVIDE CHAIR CARRIER
P-3a	LAVATORY, PUBLIC, COUNTERTOP, A.D.A. GRID DRAIN, TRAP PRIMER	KOHLER #K 2196-4 "PENNINGTON"	McGUIRE #155A GRID DRAIN PPPULP TRAP PRIMER	KOHLER #K 15199	McGUIRE #H 2165	McGUIRE #8872	1/2"	1/2"	1/2"	
P-3b	LAVATORY, WALL HUNG, A.D.A. A.D.A. GRID DRAIN	KOHLER #K 1729 "CHESAPEAKE"	McGUIRE #155A GRID DRAIN	KOHLER #K 15199	McGUIRE #H 2165	McGUIRE #8872	1/2"	1/2"	1/2"	PROVIDE INSULATION ON TRAP, DRAIN AND SUPPLIES, PROVIDE CONCEALED ARM CARRIER
P-3c	LAVATORY, PUBLIC, COUNTERTOP, A.D.A. GRID DRAIN	KOHLER #K 2196-4 "PENNINGTON"	McGUIRE #155A GRID DRAIN	KOHLER #K 15199	McGUIRE #H 2165	McGUIRE #8872	1/2"	1/2"	1/2"	PROVIDE INSULATION ON TRAP, DRAIN AND SUPPLIES
P-3d	LAVATORY, RESIDENCE, COUNTERTOP, A.D.A. POP-UP DRAIN	KOHLER #K 2196-8 "PENNINGTON"	PPPULP TRAP PRIMER	KOHLER #K 7437-K/K 16012-4 WITH POP UP DRAIN	McGUIRE #H 2165	McGUIRE #8872	1/2"	1/2"	1/2"	PROVIDE INSULATION ON TRAP, DRAIN AND SUPPLIES
P-3e	LAVATORY, WALL HUNG, STAINLESS STEEL, A.D.A. GRID DRAIN	JUST #A33338	JUST #J 115-S GRID DRAIN	CHICAGO #1895-GNZA	McGUIRE #H 2165	McGUIRE #8872	1/2"	1/2"	1/2"	PROVIDE INSULATION ON TRAP, DRAIN AND SUPPLIES
P-4a	JANITOR SINK, FLOOR MOUNT, TERRAZZO	STERN-WILLIAMS #SB-802	-	CHICAGO #956-R	INTEGRAL	McGUIRE #8872	3"	1/2"	1/2"	
P-5a	S S SINK, 1-COMP, 16"x28" BOWL	JUST #SLXD 2231-A-GR	JUST #J-35 BASKET STRAINER	JUST #JWF 100	McGUIRE #H 2165	McGUIRE #8912	1/2"	1/2"	1/2"	
P-5b	ENAMELED CAST IRON SINK, 1-COMP, DISPOSER	KOHLER #K-6964-4	McGUIRE #151A BASKET STRAINER	KOHLER #K 6356-CP w/HANDSPRAY	McGUIRE #H 2165	McGUIRE #8912	1/2"	1/2"	1/2"	PROVIDE (4) FAUCET AND (4) AIR GAP BUNCHINGS; AIR GAP, INSULATOR "BADGER 5" DISPOSER
P-5c	S S SINK, 1-COMP, 16"x22" BOWL, A.D.A.	JUST #SLX ADA 2125-A-GR, 5" DEEP BIGHT REAR DRAIN	McGUIRE #152 GRID STRAINER	JUST #JWF 100	McGUIRE #H 2165	McGUIRE #8912	1/2"	1/2"	1/2"	PROVIDE INSULATION ON TRAP, DRAIN AND SUPPLIES
P-5d	S S SINK, 1-COMP, 16"x22" BOWL	JUST #SL 2125-A-GR	McGUIRE #152 GRID STRAINER	-	-	-	1/2"	1/2"	1/2"	PROVIDE NO BUNCHINGS; PROVIDE FULL SIZE FLEXIBLE FLEXIBLE DRAIN LINE TO ROLL-AWAY BASIN SEE ARCH
P-5e	S S SINK, 1-COMP, 16"x22" BOWL	JUST #SLXD 2125-A GR	McGUIRE #152 GRID STRAINER	JUST #JWF 100	McGUIRE #H 2165	McGUIRE #8912	1/2"	1/2"	1/2"	
P-6a	RESIDENCE TUB/SHOWER CAST IRON TUB, SHOWER VALVE	KOHLER #K-519K-516 VERTY LEFT RIGHT HAND	McGUIRE #1221 TL WASTE, TRIP LEVER, FLAT STRAINER	POWERS #E426-A-M-2-R-9-Y-V	INTEGRAL	CAST IRON	2"	1/2"	1/2"	
P-6b	SHOWER - BUILT IN	STERN WILLIAMS #WS-3200 36"x36"	-	POWERS #E426-A-X-X-X-3-X-V	INTEGRAL	CAST IRON	2"	1/2"	1/2"	
P-6d	SHOWER - A.D.A. - BUILT IN	STERN-WILLIAMS #WS-3200, 36"x36"	-	POWERS #E426-A-X-X-X-3-X-V	INTEGRAL	CAST IRON	2"	1/2"	1/2"	
P-7a	FLOOR DRAIN - STANDARD	WADE #W 1102-SD5	-	-	-	CAST IRON	2"	-	-	
P-7b	HUB DRAIN FOUNTAIN EQUIPMENT	-	-	-	-	CAST IRON	4"	-	-	INSTALL IN BOTTOM OF SUMP - SEE STRUCTURAL DWGS
P-7c	FLOOR DRAIN - 3/4 NICKEL BRONZE GRATE	WADE #W 9114-15 LESS DOME	-	-	-	CAST IRON	4"	-	-	
P-7d	FLOOR DRAIN MECHANICAL ROOM	WADE #W 1240	-	-	-	CAST IRON	4"	-	-	PROVIDE DEEP SEAL TRAP AND TRAP PRIMER
P-7e	FLOOR DRAIN - 3/4 GRATE S S	WADE #W 9102-3-16	-	-	-	CAST IRON	2"	-	-	
P-7f	FLOOR DRAIN FULL GRATE S S	WADE #W 9102	-	-	-	CAST IRON	2"	-	-	
P-7g	FLOOR DRAIN - 1/2 GRATE, S S	WADE #W 9102-9-15	-	-	-	CAST IRON	2"	-	-	
P-7h	FLOOR DRAIN - EXTENDED RIM	WADE #W 1102-ERS	-	-	-	CAST IRON	2"	-	-	INSTALL INSTALL DRAIN WITH TOP OF RIM FLUSH WITH FLOOR TRAP PRIMER CONNECTION
P-7i	AREA DRAIN	WADE #W-2364	-	-	-	CAST IRON	4"	-	-	
P-7k	FLOOR SINK	WADE #W 9142 (NO GRATE)	-	-	-	CAST IRON	2"	-	-	TRAP PRIMER CONNECTION
P-8a	HOSE FAUCET, NON-FREEZE AREA	WOODFORD #21P-3/4	-	-	-	-	-	-	3/4"	
P-8b	FREEZELESS YARD FAUCET	WOODFORD #195	-	-	-	-	-	-	3/4"	
P-8c	HOSE FAUCET, FREEZELESS	WOODFORD #865	-	-	-	-	-	-	3/4"	
P-9a	TRAP PRIMER w/ELECTRONIC DOSING MANIFOLD	PRECISION PLUMBING PRODUCTS #PT-12	-	-	-	VALVE	-	-	3/4"	MOUNT TOP OF UNIT AT 48" A.F.F
P-9b	ICE MAKER CONNECTION	GUY GRAY #91M 875	-	-	-	-	-	-	1/2"	MOUNT C.L. OF UNIT 12" A.F.F
P-9c	TRAP PRIMER	PRECISION PLUMBING PRODUCTS #P1-500 w/DISTRIB MANIFOLD	-	-	-	-	-	-	3/4"	
P-10a	DRINKING FOUNTAIN BI-LEVEL REMOTE CHILLED WATER UNIT	FILTRINE #107-16-HL SATIN STAINLESS STEEL	HAWS #HCR8 REMOTE CHILLER IN-LINE REPLACEABLE FILTER ON INLET	-	McGUIRE #157	McGUIRE #8872	-	-	1/2"	MOUNT CHILLER ABOVE CEILING. ROUTE 1/2" WATER TO CHILLER. ROUTE 1/2" CHILLED WATER FROM CHILLER TO FOUNTAIN
P-11a	EMERGENCY EYE WASH WALL MOUNTED HAND PADDLE ACTIVATED	HAWS #7100-BT	-	-	GATE VALVE	INTEGRAL w/UNIT	-	-	3/4"	
RDa	ROOF DRAIN	WADE #3000-52-53-AE	-	-	-	-	2'-6"	-	-	
RDb	PLANTER DRAIN	WADE #3320PA	-	-	-	-	2'-6"	-	-	
RDc	GREEN ROOF DRAIN	WADE #3000-53-DP	-	-	-	-	2'-6"	-	-	
RDd	AREA DRAIN AT PERIMETER RECESS	WADE #3000	-	-	-	-	2'-6"	-	-	
RDe	AREA DRAIN AT PERIMETER RECESS	WADE #3204	-	-	-	-	2'-4"	-	-	

GAS WATER HEATERS							
MARK	MFR. & MDL	BTU/H INPUT	RECOVERY		STORAGE CAP. GAL.	FLUE SIZE	REMARKS
			GPH	RISE			
GWH 1	A.O SMITH #BTP 300-600	600,000	727	80	300	8"	PROVIDE CORRECT A.S.M.E. T&P RELIEF VALVE, RECIRC PUMP, ALL CONTROLS. SEE NOTE 1 AND 3
GWH 2	A.O SMITH #BTP-140-540	500,000	524	100	140	8"	PROVIDE CORRECT A.S.M.E. T&P RELIEF VALVE, RECIRC PUMP, ALL CONTROLS. SEE NOTE 2

NOTES  
1 SEE HWC-1 AND HWC-2 SPECIFICATION  
2 SEE HWC-3 SPECIFICATION  
3 PROVIDE HEATER GWH-1 WITH A #1-200, 200 GALLON STORAGE TANK. PROVIDE TANK TO HEATER RECIRC PUMP AS PER DETAIL, AND ALL RECD CONTROLS AS PER WATER HEATER MFR. RECOMMENDATIONS

### Plumbing Equipment Schedule

**HWC-1 HOT WATER RECIRCULATION PUMP (KITCHEN RETURN)**  
Grundfos UP26-64F single stage centrifugal pump. The pump shall be base mounted as shown on plans and installed in accordance with manufacturers recommendations. The pump shall be capable of delivering 6 GPM when operating at a total developed head of 15 feet of water column. The motor shall be rated at 1/12 HP at 115v, single phase

**HWC-2 HOT WATER RECIRCULATION PUMP (GWH-1/STOR TANK CIRCULATOR)**  
Grundfos UP26-64F, single stage centrifugal pump. The pump shall be base mounted as shown on plans and installed in accordance with manufacturers recommendations. The pump shall be capable of delivering 2 GPM when operating at a total developed head of 4 feet of water column. The motor shall be rated at 1/12 HP at 115v, single phase

**HWC-3 HOT WATER RECIRCULATION PUMP (DOMESTIC RETURN)**  
Equal to Grundfos #UPC 65-160  
The pump shall be mounted as shown on plans and installed in accordance with manufacturers recommendations. The pump shall be capable of delivering 25 GPM when operating at a total developed head of 50 feet of water column. The pump shall be constructed of bronze and rated at 145 ps working pressure. The motor shall be rated at 1 1/2 HP at 208v, three phase

**RPZ 1 and RPZ 2 REDUCED PRESSURE ZONE BACKFLOW PREVENTER ASSEMBLY**  
Febco 860 4 - 2" Reduced pressure zone backflow preventer assemblies with gate valves and flanged bronze strainers. Mount valves inside mechanical room. Provide 4" inlet and outlet headers for RPZ assembly connections, 12" min to 30" max aff. See detail

**RPZ-3 REDUCED PRESSURE ZONE BACKFLOW PREVENTER ASSEMBLY**  
Febco 860 1" Reduced pressure zone backflow preventer assembly with ball valves and bronze strainer. Provide air gap fitting and drain to floor drain

**SP-1 SUMP PUMP (elevator pit)**  
Myers #SSM331, cast iron pump body, 15 gpm @ 19 ft hd. Thermoplastic impeller. Oil filled motor in sealed waterproof housing. Has built in overload protection. Mechanical shaft seal has hard ceramic seal and carbon rotating element. Motor shaft is stainless steel. Automatic mercury free vertical level control switch.

**SP-2 and SP-3 SUMP PUMPS - DELETED**

**EJ 1 SEWAGE EJECTOR (Museum Building)**  
Myers #3WHV30M4 (2) with #SRA-33 lift-out rail systems. 3" non-clog, two vane rounded port ductile iron impellers, cast iron motor housing, cord cap seal housing and volute case. Single type 21 standard-carbon/ceramic mechanical seal. Stainless steel shaft. Lift-out rail system shall consist of ductile iron discharge base, cast iron pump attaching and sealing plate, stainless steel pump guide plate, and cast iron elbow. The weight of the pump shall bear solely on the discharge base and not on the guide rails. Guide rails shall be 1-1/2" stainless steel and shall be firmly attached to #3 access-hatch frame. Rail systems that require the pump to be supported by legs will not be considered equal. An adequate amount of stainless steel lifting chain will be provided. Each pump shall be capable of producing 250 gpm at 32 ft. hd., 5 hp. 450v/3Ø. Provide Myers #CWHV3-50-23DW 3-phase duplex control panel with elapsed time meter, alarm horn with silence switch, convenience outlet. Provide 8" deep x 60" dia fiberglass basin with anti floatation flange, steel "hatch" pump cover. Basin to be complete with all inlet hubs, grommets and gaskets

**EJ-2 and EJ-3 SEWAGE EJECTOR (Archives Building)**  
Myers #3WHV30M4 (2) with #SRA 33 lift-out rail systems. 3" non-clog, two vane rounded port ductile iron impellers, cast iron motor housing, cord cap seal housing and volute case. Single type 21 standard-carbon/ceramic mechanical seal. Stainless steel shaft. Lift-out rail system shall consist of ductile iron discharge base, cast iron pump attaching and sealing plate, stainless steel pump guide plate, and cast iron elbow. The weight of the pump shall bear solely on the discharge base and not on the guide rails. Guide rails shall be 1-1/2" stainless steel and shall be firmly attached to #3 access-hatch frame. Rail systems that require the pump to be supported by legs will not be considered equal. An adequate amount of stainless steel lifting chain will be provided. Each pump shall be capable of producing 70 gpm at 31 ft. hd., 3 hp. 480v/3Ø. Provide Myers #CWHV3-30 23DW 3-phase duplex control panel with elapsed time meter, alarm horn with silence switch, convenience outlet. Provide 78" deep x 60" dia fiberglass basin with anti floatation flange, steel "hatch" pump cover. Basin to be complete with all inlet hubs, grommets and gaskets

**OIL INTERCEPTOR**  
WADE #5500-50, fabricated steel, integral 100 gallon storage compartment, anti-skid gasketed cover, removable baffles, acid resisting coating, threaded inlet and outlet. Provide float switch in storage compartment with remote alarm to signal when storage compartment has reached 80% capacity. Verify depth required and provide extension as required

**OIL INTERCEPTOR 2**  
WADE #5500-25, fabricated steel, integral 50 gallon storage compartment, anti-skid gasketed cover, removable baffles, acid resisting coating, threaded inlet and outlet. Provide float switch in storage compartment with remote alarm to signal when storage compartment has reached 80% capacity. Verify depth required and provide extension as required

### VALVE SCHEDULE

TYPE	REQUIRED	VALVE SPECIFICATION													
		MATERIALS VALVES	SIZE	FLANGED	SOCKET	MECH. JT	W/ ADAPTER	W/ BUSH	W/ GROMMET	W/ BRASS					
SHUTOFF VALVES	1145	38"-4"													
	1105	14"-4"													
	T2881	2'-4"													
	F2882M	2'-12"													
	F2884M	2'-12"													
CHECK VALVES	S10	14"-2"													
	1509	14"-2"													
	S06	14"-2"													
	T2973	2'-4"													
	F2974M	2'-12"													
	F2970	2'-12"-6"													
	F2974LW	2'-12"													

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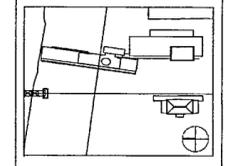
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