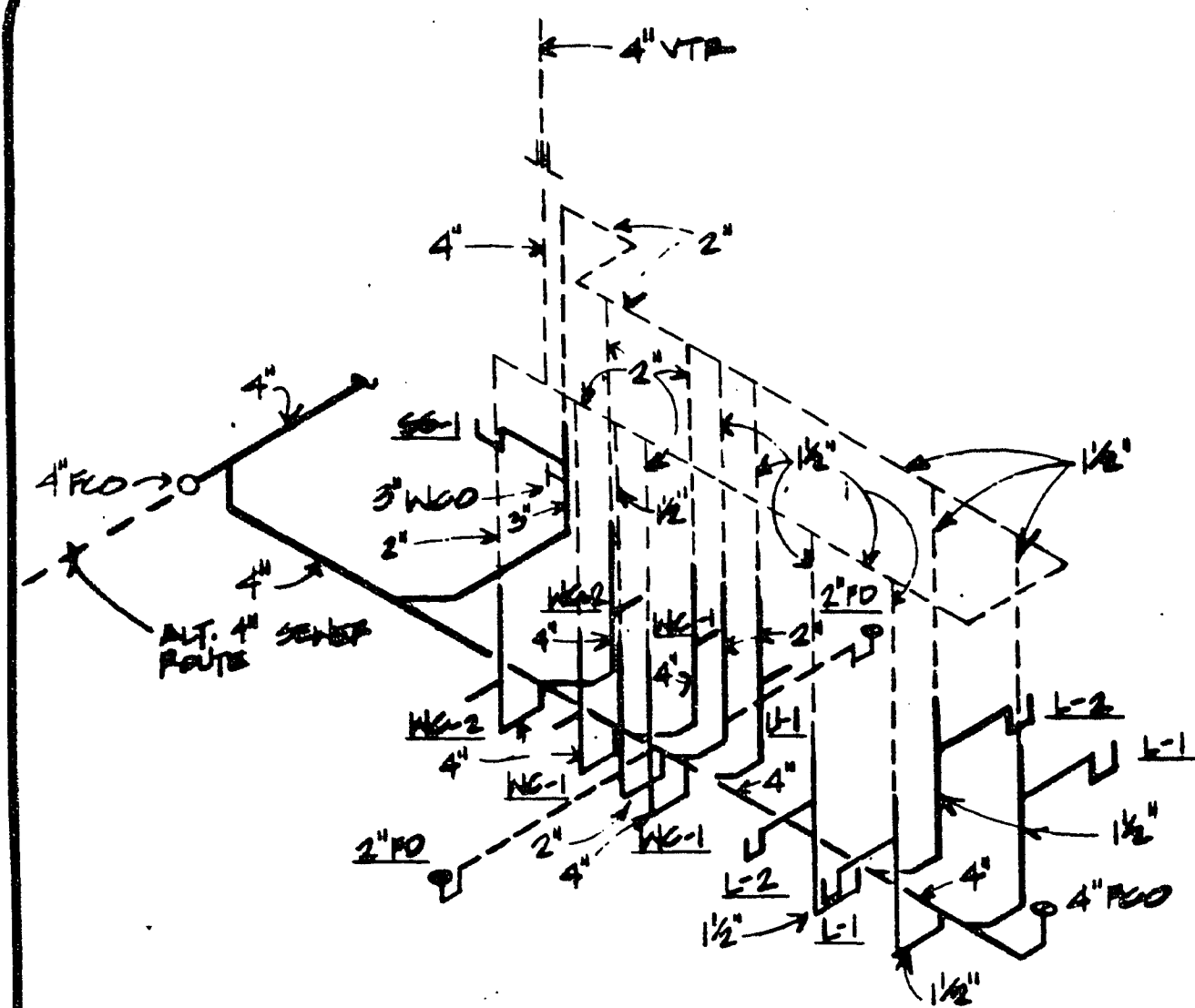
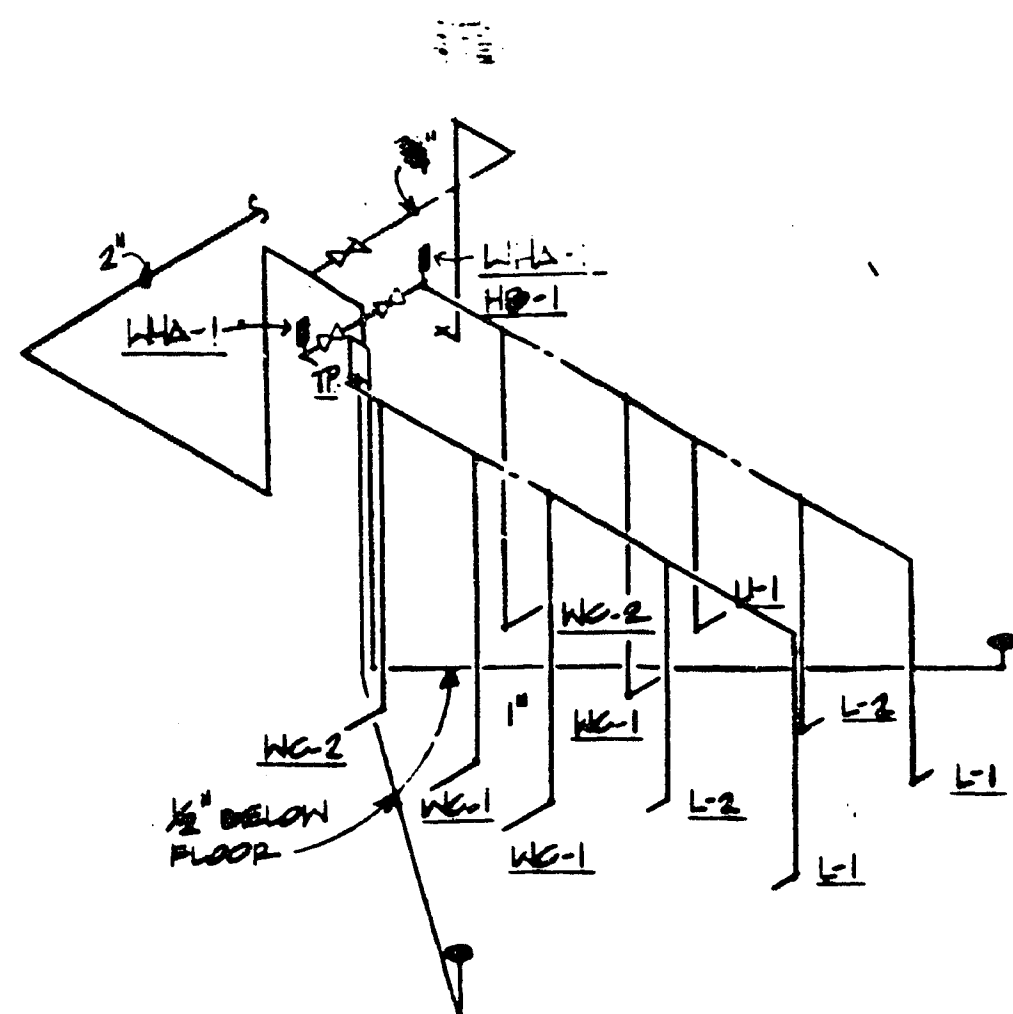




WASTE & VENT PIPING DIAGRAM

NO SCALE

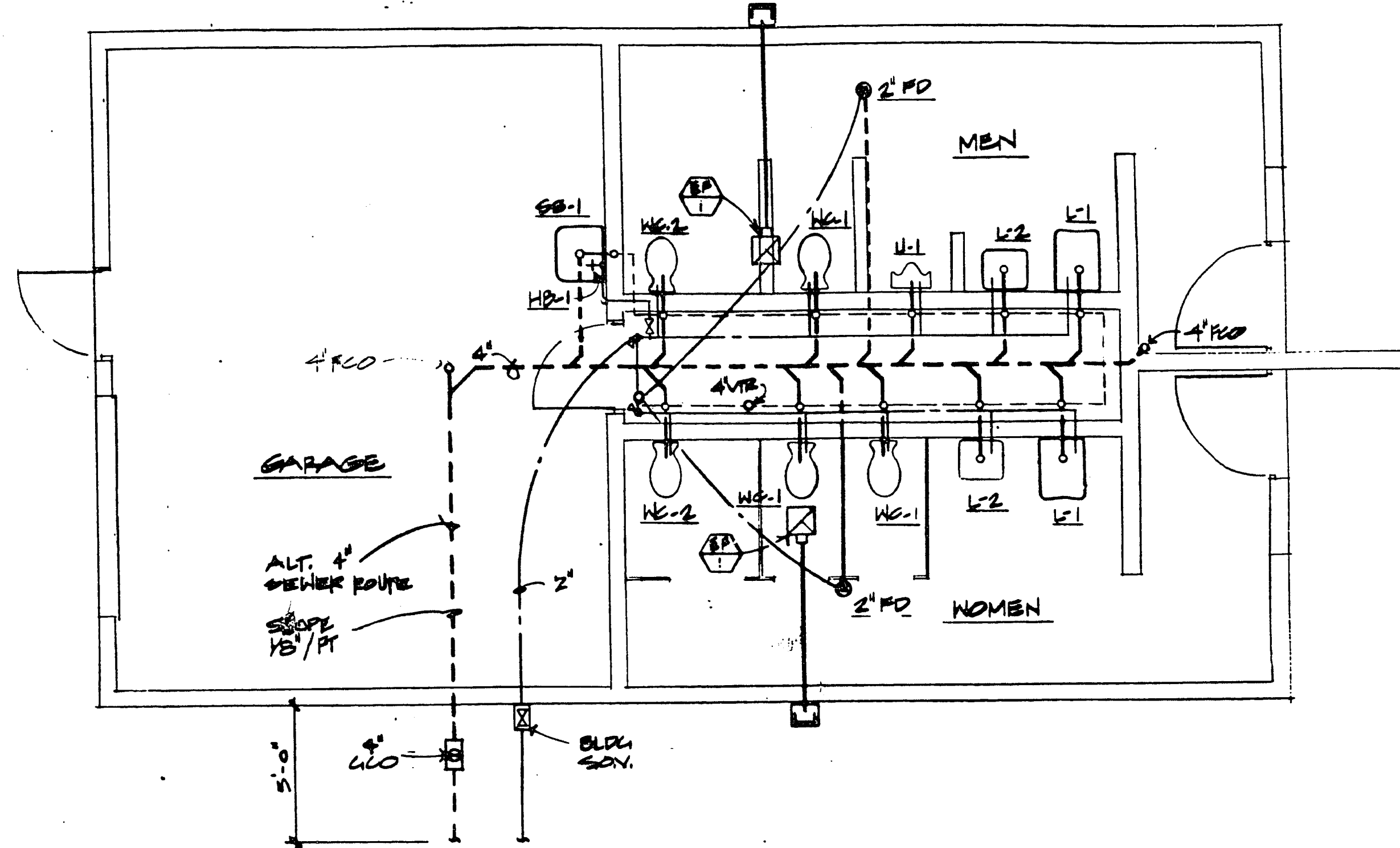


COLD WATER PIPING DIAGRAM

NO SCALE

PLUMBING NOTES

1. CONTRACTOR SHALL COMPLY WITH MOST RECENTLY APPROVED EDITIONS OF UPC & UBC.
2. PERFORM TESTS AND HAVE REQUIRED INSPECTIONS MADE PRIOR TO BACKFILLING.
3. NO FITTINGS TO BE MADE UNDER SLAB.
4. WATER PIPING: TYPE "L" SOFT COPPER UNDER SLAB, TYPE "H" COPPER ABOVE SLAB.
5. WASTE VENT AND DRAIN PIPE ASS.
6. TRENCHING FOR WASTE LINES THAT ARE PARALLEL TO BUILDING FOOTINGS MUST BE AT LEAST AS FAR AWAY FROM THE FOOTING EDGE AS THE VERTICAL DISTANCE BETWEEN THE BOTTOM OF THE FOOTING AND THE BOTTOM OF THE TRENCH (SEC. 3150 UPC).
7. CONTRACTOR SHALL SUPPLY ANY MISCELLANEOUS ITEMS NORMALLY USED SPECIFICALLY MENTIONED OR NOT, AS TO MEMBER A COMPLETE INSTALLATION.
8. PLUMBING PLANS AND SCHEMATICS ARE DIAGNOSTIC TO ALLOW FOR CLEAR GRAPHIC PRESENTATION. INSTALLATION OF PLUMBING ACCORDING TO CURRENT UBC AND UPC REQUIREMENTS SHALL BE SOLE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. DISCREPANCIES WITH CODE REQUIREMENTS ON CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO ATTENTION OF THE ARCHITECT BY PLUMBING CONTRACTOR BEFORE INSTALLATION.
9. NO JOINTS TO BE MADE IN WATER PIPING UNDER SLAB.



MECHANICAL/ PLUMBING PLAN

PLUMBING FIXTURE SCHEDULE

ABBR.	FIXTURE	ROUGH-IN SIZES (inches)					REMARKS
		HW	CW	V	TRAP	SO/W	
WC-1	WATER CLOSET	-	1	2	1/2	4	
WC-2	WATER CLOSET	-	1	2	1/2	4	HANDICAP
U-1	URINAL	-	3/4	1/2	1/2	2	
L-1	LAVATORY	1/2	1/2	1/2	1/2	1/2	HANDICAP
L-2	LAVATORY	1/2	1/2	1/2	1/2	1/2	
SS-1	SERVICE SINK	1/2	1/2	2	2	2	
FD	FLOOR DRAIN	-	-	1 1/2	2	2	
FD	FLOOR DRAIN	-	-	1 1/2	2	2	
HB-1	HOSE BIB	-	3/4	-	-	-	
HB-2	HOSE BIB	-	3/4	-	-	-	

PLUMBING FIXTURE SPECIFICATIONS

WC-1	WATER CLOSET ACORN DURA-WARE MODEL 2105-W-1-CN-HS ELONGATED BOWL, TYPE 304 STAINLESS STEEL SEAMLESS WELDED CONSTRUCTION, SLOAN ROYAL MODEL 604 CONCEALED FLUSH VALVE, J.R. SMITH FIXTURE ADJUSTABLE VERTICAL SUPPORT.
WC-2	WATER CLOSET (HANDICAP) SAME AS WC-1 WITH MOUNTING HEIGHT FOR HANDICAP USES.
U-1	URINAL ACORN DURA-WARE MODEL 2167-U-1 TYPE 304 STAINLESS STEEL SEAMLESS WELDED CONSTRUCTION, SLOAN ROYAL MODEL 613 CONCEALED FLUSH VALVE, J.R. SMITH FIXTURE SUPPORT.
L-1	LAVATORY ACORN DURA-WARE MODEL 1951-L-1-DMS-1AB-ST, 18" X 18" RECTANGULAR, TYPE 304 STAINLESS STEEL SEAMLESS WELDED CONSTRUCTION, PENAL-TROL PUSHBUTTON AUTO-CLOS MECHANICAL METERING, GRID STRAINER WITH TAILPIECE, 17 GAUGE BRASS CHROME PLATED P-TRAP (1-1/4" X 1-1/2"), ANGLE BRACES, AND J.R. SMITH FIXTURE SUPPORT.
SS-1	SERVICE SINK HOBAS BARNON MODEL K-6718 (24" X 20") ENAMELED CAST IRON, MODEL K-6673 3" TRAP STANDARD WITH STRAINER AND MODEL K-8936 STAINLESS STEEL RIM GUARD.
FD	FLOOR DRAIN J.R. SMITH FIG. 2005-A WITH TRAP PRIMER CONNECTION.
TP	TRAP PRIMER PRECISION PLUMBING PRODUCTS, INC. TRAP PRIMER PRIMER-RITE WITH DISTRIBUTION UNIT AS REQUIRED.
WA-1	WATER HAMMER ARRESTOR PRECISION PLUMBING PRODUCTS, INC. WATER HAMMER ARRESTOR, SIZE 3/4" (P.D.I. - B).
HB-1	HOSE BIB WOODFORD MODEL 874-C-3/4" CLOSE COUPLED WALL HYDRANT WITH VACUUM BREAKER WITH TEE KEY.
HB-2	HOSE BIB WOODFORD MODEL 865-C-3/4" AUTOMATIC DRAINING FREEZELESS WALL HYDRANT WITH VACUUM BREAKER.

EXHAUST FAN SCHEDULE

SYMBOL OR I.D. NUMBER	EF-1
MANUFACTURER	XME
MODEL NUMBER	V400
TYPE	C-24 PAINT
OPERATING WEIGHT	2000
SERVICE	2-1/2"
STANDARD CFM	2000
ACTUAL CFM	2000
BLADE TYPE	3-6"
RPM	2000
TIP SPEED (FPM)	-
E.S.P. (IN. H ₂ O)	0.5
CLASS	-
OUTLET VELOCITY (FPM)	-
MOTOR H.P. (WATTS)	1/2
VOLTS-PHASE-HERTZ	120/1/60
STARTER TYPE	3-1/2" VOLTAGE
SOUND ATTENUATION	-
EAVE ELBOW	PROVIDE
DISCONNECT	PROVIDE
BIRD SCREEN	PROVIDE
MOUNTING COLLAR	-
BACKDRAFT DAMPER	PROVIDE
ISOLATION BASE	-

MECHANICAL/PLUMBING SYMBOLS

ABBR.	SYMBOL	DESCRIPTION
SA	—	SUPPLY AIR
RA	—	RETURN OR RELIEF AIR
EXA	—	EXHAUST AIR
OA	—	OUTSIDE AIR
FD	—	FLEXIBLE DUCT
FD	—	FUSIBLE LINK FIRE DAMPER (VERTICAL)
FD	—	FUSIBLE LINK FIRE DAMPER (HORIZONTAL)
SD	—	DUCT MOUNTED SMOKE DETECTOR
MSD	—	MANUAL BALANCING DAMPER
OSVD	—	OPPOSED BLADE VOLUME DAMPER
T-STAI	—	THERMOSTAT
RWS	—	ROTARY WALL SWITCH
AD	—	ACCESS DOOR
CFM	—	CUBIC FEET PER MINUTE
D	—	DIFFUSER
R	—	REGISTER
S or W	—	SOIL, WASTE, OR SEWER BELOW GRADE
S or W	—	SOIL, WASTE, OR SEWER ABOVE GRADE
V	—	VENT
SD	—	STORM DRAIN BELOW GRADE
SD	—	STORM DRAIN ABOVE GRADE
CW	—	COLD WATER
HW	—	HOT WATER
Q	—	GAS (LOW PRESSURE)
D	—	DRAIN
BV	—	BALL VALVE
GV	—	GATE VALVE
QC	—	GAS COCK
FD	—	FLOOR DRAIN
FS	—	FLOOR SINK
F or GCO	—	FLOOR OR GRADE CLEANOUT
WCO	—	WALL CLEANOUT
HB	—	HOSE BIB
WH	—	WALL HYDRANT
VTR	—	VENT THRU ROOF
RD	—	ROOF DRAIN
OFD	—	OVERFLOW DRAIN
SOV	—	SHUT-OFF VALVE
POC	—	POINT OF CONNECTION

Mechanical Notes

1. General: Furnish & install complete and operational ventilation system shown on the drawings.
2. Codes, laws & ordinances: Comply with codes, laws, ordinances, and regulations of authorities having jurisdiction over the premises. Should any conflict occur between these regulations and the plans and specifications, said regulations shall govern.
3. Substitution of material or equipment: The system have been designed around the equipment specified. Other makes of similar equipment may be furnished provided that such equipment has equal capacity to that specified, is substantially the same physically and can be installed in the space available with ample working space around it.
4. Cutting and patching: Openings not shown as being provided by the general contractor and other cutting which is necessary for the proper installation of this work shall be by the contractor. This contractor is responsible for proper fitting, location and layout of all openings required.
5. Electrical work: Provide and install motors, thermostats, special controls, and electrical devices for the mechanical equipment which are not provided under the electrical section.
6. Work in other sections: Electric wiring, both low & line voltage, disconnect switches, fuses and wiring devices necessary for the installation of equipment furnished under this section will be furnished by the electrical contractor.
7. Materials and equipment: Materials and equipment furnished under this section shall be new and be the standard product of a recognized manufacturer in current production at the time of construction.
8. Flashing: Where ductwork passes through roof, provide curbs and flashings in accordance with standard practice.
9. Workmanship and installation: All work shall be done in a thorough and first class manner.
 - a) Test & adjustments: Obtain all inspections required by authorities having jurisdiction. Furnish all tools, instruments and temporary connections required for test. Any equipment that may be damaged by tests shall be removed and reinstalled after acceptance of tests. All temperature control and other automatic devices shall be thoroughly tested and adjusted. Lubricate, start up and operate all equipment and demonstrate its operation.
 - b) Identification: Switches and control apparatus shall be identified on metal tags to indicate their purpose and item controlled.
 - c) Cleaning up: This contractor shall at all times keep building and premises in a neat, clean and orderly manner insofar as storage of material and removal of dirt and rubbish caused by his work is concerned.
10. Guarantee: This contractor shall guarantee his work free from defects in workmanship and materials for a period of two years from date of final acceptance. Any equipment which proves defective within this period shall be promptly repaired or replaced by the contractor at no cost to the owner.

AS BUILT

MECHANICAL/PLUMBING PLAN, PIPING DIAGRAMS, SCHEDULES & SPECIFICATIONS

PROJECT NO. 4-1-001 PARK SITE
DATE: 11 MAY 92
SCALE: NONE
JCA # 68802

SHEET MP1
17 of 38 SHEETS
650.35-VI

2300 PASEO DEL PRADO SUITE D 108
LAS VEGAS, NEVADA 89102
PHONE (702) 364-1066

JCA ARCHITECTURE
ARCHITECTS & ENGINEERS, INC.

JCA ARCHITECTURE
ARCHITECTS & ENGINEERS, INC.

4-1-001 PARK SITE
GOWAN & TORREY PINES
LAS VEGAS, NEVADA

CHILDRENS MEMORIAL PARK