PLUMBING SYMBOLS LEGEND

AV	ACID VENT PIPING
AW	ACID WASTE
GW	GREASE WASTE
SV	EXISTING SANITARY SEWER VENT PIPING
SV	NEW SANITARY SEWER VENT PIPING
SS	EXISTING SANITARY SEWER ABOVE SLAB
SS	NEW SANITARY SEWER ABOVE SLAB
SS	EXISTING SANITARY SEWER BELOW SLAB
SS	NEW SANITARY SEWER BELOW SLAB
SD	STORM DRAIN ABOVE SLAB
OD	OVERFLOW STORM DRAIN ABOVE SLAB
SD	STORM DRAIN BELOW SLAB
OD	OVERFLOW STORM DRAIN BELOW SLAB
	EXISTING COLD WATER
	EXISTING HOT WATER SUPPLY
	EXISTING HOT WATER RETURN
	NEW COLD WATER
	NEW HOT WATER SUPPLY
	NEW HOT WATER RETURN
B	BUTANE
CDWR	CHILLED DRINKING WATER RETURN
CDWS	CHILLED DRINKING WATER SUPPLY
D	DRAIN LINE
DI	DEIONIZED WATER
DIR	DEIONIZED WATER RETURN
DSP	DRY SPRINKLER PIPE
DW	DISTILLED WATER
DWR	DISTILLED WATER RETURN
F	FIRE LINE
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
G	GAS PIPING
P	PROPANE GAS
PSS	PUMPED SANITARY SEWER
PSD	PUMPED STORM SEWER
RO	REVERSE OSMOSIS
ROR	REVERSE OSMOSIS RETURN
SP	FIRE SPRINKLER
SW	SOFTENED WATER
SHW	SOFTENED HOT WATER
SWR	SOFTENED HOT WATER RETURN
TW	TEMPERED WATER
CA	COMPRESSED AIR
LA	LABORATORY AIR
A	MEDICAL AIR
EVAC	EVACUATION VACUUM
LV	LABORATORY VACUUM
V	MEDICAL VACUUM
CO_2	CARBON DIOXIDE
H	HELIUM
N	NITROGEN
N_2O	NITROUS OXIDE
O_2	OXYGEN
	DIRECTION OF FLOW
	DIRECTION OF SLOPE DOWN
	DROP IN PIPING
	RISE IN PIPING
	VALVE IN DROP
	VALVE IN RISE
	UNION
	BALANCING VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	GAS COCK
	GATE VALVE
	PRESSURE CONTROL VALVE
	3-WAY VALVE
	SOLENOID VALVE
	SUPERVISED VALVE WITH FLOW SWITCH
	PRESSURE GAUGE
	THERMOMETER
	ROOF DRAIN
	FLOOR DRAIN
	FLOOR SINK
	FLEXIBLE CONNECTION
	T & P RELIEF VALVE
	STRAINER
	FLOW SWITCH
	CAP
	FLOOR CLEANOUT
C.O.	(WALL)(CEILING) CLEANOUT
(E)	NEW CONNECTION TO EXISTING

NOTE: NOT ALL SYMBOLS USED IN THIS PROJECT

PLUMBING ABBREVIATION SCHEDULE

AAP	AREA ALARM PANEL
AAV	AUTOMATIC AIR VENT
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BOB	BOTTOM OF BEAM
BOP	BOTTOM OF PIPE
BTUH	BRITISH THERMAL UNITS PER HOUR
CFH	CUBIC FEET PER HOUR
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CLG	CEILING
CO	CLEANOUT
CONN	CONNECTION
CONT	CONTINUATION
DF	DRINKING FOUNTAIN
DPV	DRY PIPE VALVE
EA	EACH
EDF	ELECTRIC DRINKING FOUNTAIN
EWH	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDV	FIRE DEPARTMENT VALVE
FHC	FIRE HOSE CABINET
FL	FLOW LINE
FS	FLOOR SINK
FT	FEET
FU	FIXTURE UNITS
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HP	HORSEPOWER
INV.	INVERT
KW	KILOWATTS
L	LAVATORY
MAP	MASTER ALARM PANEL
MECH	MECHANICAL
MH	MANHOLE
MS	MOP SINK
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
OFD	OVERFLOW DRAIN
PIV	POST INDICATOR VALVE
PH	PHASE
PRV	PRESSURE REDUCING VALVE
RD	ROOF DRAIN
RE:	REFER TO
RO	REVERSE OSMOSIS
RPBFP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RVB	REFRIGERATOR VALVE BOX
SIA.	SIAMESE
SD	STORM DRAIN
SF	SQUARE FEET
SK	SINK
TOP	TOP OF PIPE
TP	TRAP PRIMER
TYP	TYPICAL
U	URINAL
U/F	UNDERFLOOR
U/S	UNDERSLAB
VAC. BRKR.	VACUUM BREAKER
VTR	VENT THRU ROOF
VCT	VITRIFIED CLAY TILE
WMB	WASHING MACHINE BOX
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
YH	YARD HYDRANT
ZV	ZONE VALVE
(E)	EXISTING
(N)	NEW
(R)	ITEM NOTED TO RELOCATED
(D)	ITEM NOTED TO BE DEMOLISHED
(A)	ITEM NOTED TO BE ABANDONED
C/C	CAP AND CAP
T&P	TEMP. & PRESS. RELIEF PIPING

PIPING MATERIALS

SAN. SEWER & VENT: (UNDER SLAB TO 6" ABOVE)	SCHEDULE 40 PVC / DWV
SAN. SEWER & VENT: (FROM 6" ABOVE SLAB)	NO-HUB CAST IRON PIPE WITH "CLAMP-ALL" STAINLESS STEEL FITTINGS.
WATER PIPING BELOW SLAB:	TYPE "K" SEAMLESS COPPER TUBING
WATER SERVICE IN BUILDING:	TYPE "L" COPPER TUBING WITH WROUGHT COPPER FITTINGS.
WATER SERVICE OUTSIDE BLDG:	SCHEDULE 40 PVC WITH SOLVENT JOINT FITTINGS
FIRE PRTECTION:	SCHEDULE 40 BLACK STEEL PIPE

GENERAL NOTES

1. ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE BUILDING AND INSPECTION REGULATIONS OF ALL OFFICIALS HAVING JURISDICTION.
2. THIS CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK, VAV BOXES, AND CONDUIT. SHOULD A CONFLICT OCCUR THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN. MINIMUM CLEARANCE BETWEEN PLUMBING PIPING AND THE BOTTOM AND SIDES OF VAV BOXES SHALL BE TWO AND ONE-HALF TIMES THE INDIVIDUAL DIMENSIONS OF EACH VAV BOX.
3. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF URINALS, WATER CLOSETS, LAVATORIES, AND DRINKING WATER FOUNTAINS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ROOF DRAINS, OVERFLOW DRAINS, AND SCUPPER DRAINS.
5. ALL DOMESTIC HOT AND COLD WATER FIXTURE GROUP BRANCH ISOLATION VALVES SHALL OCCUR AT 12" ABOVE FINISH CEILINGS.

FIRE PROTECTION NOTES

1. THE ENTIRE NEW BUILDING SHALL BE PROTECTED WITH A WET-PIPE SPRINKLER SYSTEM.
2. SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF THE HOUSTON BUILDING CODE, NFPA 13, INSURANCE CARRIER AND ALL AUTHORITIES HAVING JURISDICTION.
3. SYSTEM(S) SHALL BE HYDRAULICALLY CALCULATED UTILIZING DESIGN DENSITIES AND REMOTE AREA AS RECOMMENDED BY FACTORY MUTUAL.
4. ALL MATERIALS AND EQUIPMENT SHALL BE UL LISTED AND APPROVED.
5. SPRINKLER SHOP DRAWINGS AND HYDRAULIC CALCULATIONS PREPARED BY A LICENSED SPRINKLER CONTRACTOR SHALL BE SUBMITTED TO THE CITY OF THE WOODLANDS, INSURANCE CARRIER AND ARCHITECT FOR REVIEW AND APPROVAL.
6. COORDINATE SPRINKLER PIPING WITH NEW INSTALLATION OF DUCTWORK, CEILINGS AND LIGHT FIXTURES.LOCATE SPRINKLER HEADS IN THE APPROXIMATE CENTER OF CEILING TILES.
8. VISIT JOBSITE PRIOR TO SUBMISSION OF BID TO DETERMINE ALL EXISTING CONDITIONS AND HOW THEY WILL RELATE WITH THE NEW CONSTRUCTION.

APPROVED
PLUMBING PLAN
SUBJECT PROVISION OF SEC. 102.2.6 OF THE UNIFORM PLUMBING CODE.
THIS PLAN MUST BE KEPT ON JOB FOR INSPECTORS. SEPARATE PERMIT FOR PLUMBING REQUIRED.
NO. 391

STATE OF TEXAS
CRAIG KOEHN
61132
PROFESSIONAL ENGINEER
05/04/07

E/B/E, Inc.
ELECTRICAL/MECHANICAL CONSULTING ENGINEERS
Firm Registration No: 5638
Tel.: (713) 840-0177
Fax: (713) 840-8677

PLUMBING INFORMATION 01

Community Family Centers
Centros Familiares de la Comunidad

John P. McGovern, M.D. Community Sports & Recreation Building
7318 AVENUE F
HOUSTON, TEXAS 77011

THAT'S ARCHITECTURE
2402 COMMONWEALTH #100, HOUSTON, TX. 77006
TELEPHONE 713/222-1406 FAX 713/222-1506

ISSUES & REVISIONS
1 08/07/06 BID AND PERMIT
1 03/07/07 PERMIT COMMENTS

SHEET TITLE
PLUMBING INFORMATION

PROJECT NO. 06120.00
SCALE AS NOTED

SHEET NUMBER
P01.01