ABBREVIATIONS

A

A	AIR (COMPRESSED)
ABV	ABOVE
A|C	AIR CONDITIONING
AC	ALTERNATING CURRENT, AIR COMPRESSOR
ACI	AMERICAN CONCRETE INSTITUTE
AD	ACCESS DOOR, AREA DRAIN
ADJ	ADJUSTABLE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
AMB	AMBIENT
AP	ACCESS PANEL, ALARM PANEL
ARCH	ARCHITECT, ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
ATS	AUTOMATIC TRANSFER SWITCH
AV	ACID VENT, AIR VENT, AREA VALVE
AVG	AVERAGE
AW	ACID WASTE
AWS	AMERICAN WELDING SOCIETY
AUX	AUXILIARY

B

BC	BELOW COUNTER
B|C	BACK OF CURB
BFV	BUTTERFLY VALVE
BH	BOX HYDRANT
BLDG	BUILDING
BM	BENCHMARK
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STRUCTURE
BT	BATH TUB, BREAK TANK
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACK WATER VALVE

C

C	CELSIUS
CAB	CABINET
CB	CATCH BASIN
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CIRC	CIRCULATING
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMP	CORRIGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CPI	CAST IRON PIPE INSTITUTE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CO	CLEAN OUT
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESSOR
CON	CONVERTER
CONC	CONCRETE, CONCENTRIC
COND	CONDENSER, CONDENSATE
CONN	CONNECTION
CONT	CONTINUOUS, CONTINUATION
CONTR	CONTROLLER, CONTRACTOR
CRP	CORROSION RESISTANT PIPE
CRT	CATHODE RAY TUBE
CT	COOLING TOWER
CTR	CENTER
CU	COPPER
CW	COLD WATER
C_v	CAPACITY INDEX
CV	CHECK VALVE

D

D	DEPTH, DRAIN
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DE	DEIONIZED WATER SUPPLY
DEP	DEIONIZED WATER PUMP
DER	DEIONIZED WATER RETURN
DESIG	DESIGNATION
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DS	DOWNSPOUT, DOUBLE SUCTION
DW	DISHWASHER
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWP	DOMESTIC WATER PUMP

E

EA	EACH
EC	ELECTRICAL CONTRACTOR
ECC	ECCENTRIC
EDF	ELECTRIC DRINKING FOUNTAIN
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMERG	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
ES	END SUCTION, EMERGENCY SHOWER
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EVAP	EVAPORATOR
EWT	ENTERING WATER TEMPERATURE
EX	EXPLOSION-PROOF
EXT	EXTERNAL
EXTG	EXISTING

F

F	FARENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEAN OUT
FCS	FLOOR CONTROL STATION
FD	FLOOR DRAIN
FDS	FIRE DEPARTMENT SIAMESE
FDV	FIRE DEPARTMENT VALVE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FL	FLOW LINE
FLR	FLOOR
FOP	FUEL OIL PUMP
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FP	FIRE PUMP
FRZR	FREEZER
FS	FLOW SWITCH, FIRE SPRINKLER
FT	FOOT, FEET
FUT	FUTURE

G

G	GAS
GA	GAGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLV	GLOBE VALVE
GND	GROUND
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GV	GATE VALVE

H

H	HEIGHT
HB	HOSE BIBB
HD	HEAD, HUB DRAIN
HE	HEAT EXCHANGER
HORIZ	HORIZONTAL
HP	HORSEPOWER, HALON PANEL
HKP	HOUSEKEEPING PAD
HSC	HORIZONTAL SPLIT CASE
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HWC	HOT WATER CIRCULATOR
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INSUL	INSULATION
INT	INTERNAL, INTERIOR
IW	INDIRECT WASTE

J

JB	JUNCTION BOX
JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPMENT CONTRACTOR
KO	KNOCKOUT
KVA	KILOVOLT-AMPS
KW	KILOWATT

L

L	LENGTH, LAVATORY
LA	LABORATORY AIR
LAV	LAVATORY
LF	LINEAR FEET
LRA	LOCKED ROTOR AMPS
LV	LABORATORY VACUUM
LVL	LEVEL
LWCO	LOW WATER CUT OFF
LWT	LEAVING WATER TEMPERATURE

M

MA	MEDICAL AIR
M	METER
MAP	MASTER ALARM PANEL
MAX	MAXIMUM
MBH	THOUSAND OF BTU'S
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MG	MEDICAL GAS OUTLET
MH	MANHOLE
MI	MALLEABLE IRON
MIN	MINIMUM
MP	MEDICAL AIR PURIFIER
MS	MOP SINK
MTD	MOUNTED
MU	MAKE-UP
MV	MEDICAL VACUUM

N

N	NITROGEN
NO	NITROUS OXIDE
N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE

O

O	OXYGEN
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OE	ORAL EVACUATION
OPG	OPENING
OS&Y	OPEN STEM AND YOLK

P

P	PUMP, PLUMBING EQUIPMENT
PC	PLUMBING CONTRACTOR
PCR	PUMPED CONDENSATE RETURN
PD	PRESSURE DROP, PLANTER DRAIN
PH	PHASE
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PNEU	PNEUMATIC
PNL	PANEL
PNTH	PENTHOUSE
PP	POLYPROPYLENE
PPM	PARTS PER MILLION
PRI	PRIMARY
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT

P Cont)

PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	PLUMBING TRIM
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
PW	PROCESS WASTE

Q

QTY	QUANTITY

R

R	RISER
RAD	REFRIGERATED AIR DRYER
RCP	REFLECTED CEILING PLAN, REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RE:	REFERENCE, REFER
RECIRC	RECIRCULATE
RED	REDUCER
REFR	REFRIGERATOR
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION, REVISE
RH	RELATIVE HUMIDITY
RKVA	RUNNING KILOVOLT-AMPS
RKW	RUNNING KILOWATTS
RLA	RUNNING LOAD AMPS
RM	ROOM, REFRIGERATION MACHINE
RPM	REVOLUTIONS PER MINUTE
RV	RELIEF VALVE

S

SAN	SANITARY SEWER
SC	STEAM CONVERTER
SCHED	SCHEDULED
SCR	SILICON CONTROLLED RECTIFIER
SD	STORM DRAIN
SE	SEWAGE EJECTOR
SEC	SECONDARY
SECT	SECTION
SF	SQUARE FEET
SFCS	SPRINKLER FLOOR CONTROL STATION
SH	SHOWER
SHT	SHEET
SIM	SIMILAR
SK	SINK
SKVA	STARTING KILOVOLT-AMPS
SKW	STARTING KILOWATTS
SP	SUMP PUMP
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	SERVICE SINK
SSD	SUBSURFACE DRAIN
SSFU	SANITARY SEWER FIXTURE UNITS
STD	STANDARD
STL	STEEL
STR	STRAINER
SURF	SURFACE
SUSP	SUSPEND
SV	SANITARY VENT

T

TCC	TEMPERATURE CONTROL COMPRESSOR
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TH BLK	THRUST BLOCK
TOC	TOP OF CURB
TP	TRAP PRIMER
TSTAT	THERMOSTAT
TW	TEMPERED WATER
TYP	TYPICAL

U

U	URINAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES, INC.
UON	UNLESS OTHERWISE NOTED
U|F	UNDERFLOOR
U|S	UNDERSLAB

V

V	VOLT, VENT, VACUUM
VA	VOLT-AMPERE
VAC	VACUUM
VB	VALVE BOX
VCP	VITRIFIED CLAY PIPE
VEL	VELOCITY
VP	VACUUM PUMP
VERT	VERTICAL
VIB	VALVE IN BOX
VOV	VALVE ON VERTICAL
VTR	VENT THRU ROOF

W

W	WATT, WASTE, WIDTH
W|	WITH
W|O	WITHOUT
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WM	WATER METER
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WS	WATER SOFTENER
WT	WATERTIGHT, WEIGHT
WWF	WELDED WIRE FABRIC

Y

YH	YARD HYDRANT

Z

Z	ZONE
ZV	ZONE VALVE

MISCELLANEOUS

- FLOOR DRAIN
- FLOOR SINK
- ROOF DRAIN OR OVERFLOW DRAIN
- HOSE BIBB
- WALL HYDRANT
- PLUMBING FIXTURES
- POINT OF NEW CONNECTION TO EXISTING PIPING
- POINT OF DEMOLITION TO EXISTING PIPING
- 1 — DRAWING NOTE REFERENCE
- OWNER OR CONTRACTOR FURNISHED EQUIPMENT REFERENCE
- aaabb — PLUMBING EQUIPMENT REFERENCE. "aaa" DENOTES TYPE, "bb" DENOTES NUMBER.
- P 1 — RISER DESIGNATION. "P" DENOTES WASTE|VENT OR WASTE|VENT|WATER, "W" DENOTES WATER, "DS" DENOTES DOWNSPOUT, "F" DENOTES FIRE.
- FIRE DEPARTMENT SIAMESE CONNECTION

PIPING TYPES

- SANITARY DRAIN BELOW FLOOR
- SANITARY DRAIN ABOVE FLOOR (NOTED)
- SANITARY VENT
- SD — STORM DRAIN
- OD — OVERFLOW DRAIN
- COLD WATER
- HOT WATER
- HOT WATER RECIRCULATION
- G — NATURAL GAS
- F — FIRE STANDPIPE, FIRE LINE
- FS — FIRE SPRINKLER
- TP — TRAP PRIMER
- D — DRAIN LINE
- GW — GREASE WASTE
- DCWF — FILTERED DOMESTIC COLD WATER
- AIR — COMPRESSED AIR
- S/O — SAND/OIL SEPARATOR WASTE
- DEMO
- EXISTING

(ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

PIPING SYMBOLS

- ELBOW UP
- ELBOW DOWN
- VALVE IN DROP
- VALVE IN RISE
- DIRECTION OF FLOW
- DIRECTION OF SLOPE DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- TEE OUTLET UP
- TEE OUTLET DOWN
- UNION
- PIPE ANCHOR
- EXPANSION JOINT
- STRAINER WITH BLOWDOWN VALVE
- GATE VALVE
- GLOBE VALVE
- BALL VALVE
- THERMOSTATIC BALANCING VALVE
- HOT WATER RECIRCULATION PUMP
- CHECK VALVE
- PRESSURE REDUCING VALVE
- FCS — SPRINKLER FLOOR CONTROL STATION
- GAS VALVE
- MANUAL AIR VENT
- AUTOMATIC AIR VENT
- T&P RELIEF VALVE
- VACUUM BREAKER
- LINE CLEANOUT
- FLOOR CLEANOUT
- G — PRESSURE GAUGE WITH GAUGE COCK
- THERMOMETER
- FLEXIBLE CONNECTION
- DOUBLE CHECK REDUCED PRESSURE BACKFLOW PREVENTER

SLI GROUP, INC.
ARCHITECTURE | DESIGN | CONSTRUCTION
15810 PARK TEN PLACE, SUITE 300
HOUSTON, TEXAS 77084
713-465-4650
www.sligroup.com

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HARRIS COUNTY ESD 48
ADMINISTRATION BUILDING RENOVATION
21201 MORTON ROAD
KATY, TEXAS 77449

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N. CURTIS JONES, JR. 58428 REGISTERED PROFESSIONAL ENGINEER
JE#5120
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JONES ENGINEERS, L.P.
Consulting Mechanical/Electrical/Plumbing Engineers
9820 Whithorn Dr. Houston, Texas 77095 (713)222-7766
Texas Registered Engineering Firm #F-3811

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