PLUMBING LEGEND

SYMBOL	DESCRIPTION
	BALL VALVE
	BUTTERFLY VALVE
	GATE VALVE
	ANGLE GATE VALVE
	OS & Y GATE VALVE
TS TS	OS & Y GATE VALVE WITH TAMPER SWITCH
	SOLENOIDE VALVE
	LUBRICATED PLUG VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	RELIEF VALVE
	VACUUM RELIEF VALVE
	PRESSURE & TEMPERATURE RELIEF VALVE
	AUTOMATIC AIR VENT
	CIRCUIT SETTER
	BACKWATER VALVE
DDCV	DOUBLE DETECTOR CHECK VALVE ASSEMBLY
DCV	DOUBLE CHECK VALVE ASSEMBLY
RPBFP	REDUCED PRESSURE BACKFLOW PREVENTER
PS	PRESSURE SWITCH
FA	FLOW ALARM
	UNION
	STRAINER
	STRAINER WITH BLOW OFF
	PIPE ANCHOR
	PIPE ALIGNMENT GUIDE
	EXPANSION JOINT
	FLEXIBLE CONNECTOR
	CAP OR PLUG
	BLIND FLANGE
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	AQUASTAT
WHA	WATER HAMMER
PG	PRESSURE GAUGE WITH COCK
T	THERMOMETER
CO	CLEANOUT PLUG
FCO	FLOOR CLEANOUT
YCO	YARD CLEANOUT
TT	TEST TEE
WH	WALL HYDRANT
HB	HOSE BIBB
YH	YARD HYDRANT
	THRUST BLOCK
FDC	FIRE DEPARTMENT CONNECTION
	FIRE RISER
FDV	FIRE DEPARTMENT VALVE
	FIRE DEPARTMENT VALVE CABINET
	SIEMESE FIRE DEPT. CONN.
	FIRE ALARM BELL
FD	FLOOR DRAIN
FS	FLOOR SINK
	HUB DRAIN

SYMBOL	DESCRIPTION
	DIRECTION OF SLOPE
	DIRECTION OF FLOW
	PIPE UP
	PIPE DOWN
	PIPE DROP
	TOP CONNECTION – BRANCH LINE
	BOTTOM CONNECTION – BRANCH LINE
F	FIRE MAIN
AS	AUTOMATIC WET SPRINKLER
	COLD WATER
	HOT WATER (120°F)
	HOT WATER CIRC (120°F)
140	HOT WATER (140°F)
140	HOT WATER CIRC (140°F)
SAN	SANITARY SEWER
SD	STORM DRAIN
	PIPING BELOW GRADE
	WASTE
	VENT
RD	ROOF DRAIN PIPING
OD	OVERFLOW DRAIN PIPING
PD	PUMPED DISCHARGE
D	INDIRECT DRAIN LINE
IW	INDUSTRIAL WASTE
GW	GREASY WASTE
G	NATURAL GAS (7"W.C.)
MG	MEDIUM PRESSURE GAS (2#)
CA	PROCESS COMPRESSED AIR
(E)	EXISTING PIPE
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FOV	FUEL OIL VENT
ICW	INDUSTRIAL COLD WATER
	PIPING W/ HEAT TRACE
	PIPING TO BE REMOVED
W	WASTE STACK
V	VENT STACKS
CW	COLD WATER RISER
HW	HOT WATER RISER
HWC	HOT WATER RECIRC. RISER
G	NATURAL GAS RISER
RD	RAINWATER LEADER
OD	OVERFLOW DRAIN LEADER
CA	COMPRESSED AIR RISER
AS	AUTOMATIC WET SPRINKLER RISER
ASD	AUTOMATIC SPRINKLER DRAIN
WSP	WET STANDPIPE RISER
	PLUMBING EQUIPMENT
	MISCELLANEOUS EQUIPMENT
#	SHEET NOTE

ABBREVIATIONS

⌀	SQUARE FEET
⊕	POINT OF CONNECTION
&	AND
@	AT
#	POUNDS
#	NUMBER
/	PER
ABV	ABOVE
AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
ARCH	ARCHITECT
BEL	BELOW
BFV	BUTTERFLY VALVE
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACKWATER VALVE
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CFF	CAP FOR FUTURE
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CLG	CEILING
CO	CLEANOUT
CONC	CONCRETE
CONTR	CONTRACTOR
CONT	CONTINUATION
CS	CIRCUIT SETTER
CV	CHECK VALVE
CW	COLD WATER
CWFU	COLD WATER FIXTURE UNIT
DN	DOWN
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DDCVA	DOUBLE DETECTOR CHECK VALVE ASSEMBLY
DFU	DRAINAGE FIXTURE UNIT
HWC	HOT WATER CIRC
DIA	DIAMETER
DSN	DOWNSPOUT NOZZLE
D	DRAIN
DWG	DRAWING
DWV	DRAINAGE WASTE AND VENT
EXIST	EXISTING
ELEC	ELECTRICAL
FA	FLOW ALARM
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEANOUT
FDV	FIRE DEPARTMENT VALVE
FDVC	FIRE DEPARTMENT VALVE CABINET
FH	FIRE HYDRANT
FIN	FINISHED
FL	FLOOR
FM	FROM
FO	FUEL OIL
FPS	FEET PER SECOND
FT	FEET
G	GAS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GV	GATE VALVE
HD	HUB DRAIN
HP	HORSEPOWER
HW	HOT WATER
HWFU	HOT WATER FIXTURE UNIT
IAPMO	INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
I.E.	INVERT ELEVATION
LBS	POUNDS (UNIT OF FORCE)
LPV	LUBRICATED PLUG VALVE
MAX	MAXIMUM
MBH	THOUSANDS BTU/HR
MECH	MECHANICAL
MFG	MANUFACTURER
MIN	MINIMUM
MH	MANHOLE
N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO.	NUMBER
N.O.	NORMALLY OPEN
NIC	NOT IN CONTRACT
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OW	OIL WASTE
POC	POINT OF CONNECTION
PLBG	PLUMBING
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TEMPERATURE TRAP (PETE'S PLUG)
PV	PLUG VALVE
RJ,&C	ROUGH IN AND CONNECT
RPBFP	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
SF	SQUARE FEET
SHT	SHEET
SN	SHEET NOTE
SOV	SHUT–OFF VALVE
SPKR	SPRINKLER
TB	THRUST BLOCK
TP	TRAP PRIMER
TS	TAMPER SWITCH
TT	TEST TEE
TYP	TYPICAL
UN	UNION
VB	VACUUM BREAKER
V	VENT
V	VOLTS
VTR	VENT THROUGH ROOF
W	WASTE
WHA	WATER HAMMER ARRESTOR
WCO	WALL CLEANOUT
W/	WITH
WGT	WEIGHT

PLUMBING DESIGN CRITERIA

I. DOMESTIC WATER SYSTEM

A. PIPE SIZING CRITERIA BASED ON THE REQUIREMENTS OF THE STATE OF CALIFORNIA PLUMBING CODE

B. PIPE SIZES ARE BASED ON A MAXIMUM 1.3 PSI FRICTION LOSS FOR COPPER PIPE AT A MAXIMUM VELOCITY OF 8 FPS, AND, A PREDOMINANTLY VALVE TYPE OF SYSTEM REQUIRING A MINIMUM RESIDUAL PRESSURE OF 25 PSI.

C. AVERAGE MINIMUM STREET PRESSURE AVAILABLE AT MAIN IS 71 PSI.

II. SANITARY WASTE AND VENT SYSTEM

A. ALL PIPING SHALL BE SLOPED AT ¼ INCH PER FOOT, EXCEPT WHERE NOTED AT ⅛ INCH PER FOOT TO CONFORM WITH THE STRUCTURE.

III. RAINWATER AND STORM DRAINAGE SYSTEM

A. PIPE SIZES ARE BASED ON A MAXIMUM RAINFALL RATE OF 2 INCHES PER HOUR.

B. ALL PIPING SHALL BE SLOPED AT ¼ INCH PER FOOT, EXCEPT WHERE NOTED AT ⅛ INCH PER FOOT TO CLEAR STRUCTURE OR DUCTWORK

IV. NATURAL GAS SYSTEM

A. BUILDING GAS SERVICE PRESSURE 5 PSIG.

B. MAXIMUM DEVELOPED LENGTH OF NATURAL GAS SYSTEM FROM PRESSURE REGULATOR TO MOST REMOTE EQUIPMENT LOCATION = 950 LINEAL FEET.

C. TOTAL BUILDING NATURAL GAS LOAD OF 2086 CFH INCLUDES 303 CFH FUTURE DEMAND LOAD.

V. PLUMBING SEISMIC DESIGN CRITERIA

A. HORIZONTAL = PLUS OR, MINUS 2½ INCHES.

B. VERTICAL = 0 INCHES.

GENERAL NOTES

1. ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH DIVISION 15 SPECIFICATIONS.
2. AS–BUILT RECORD DOCUMENTS: AT PROJECT CLOSEOUT, CONTRACTOR SHALL SUBMIT DETAILED INSTALLATION DRAWINGS, CHANGE ORDERS AND SPECIFICATION CHANGES TO ARCHITECT FOR APPROVAL. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.
3. ALL EXCAVATORS MUST COMPLY WITH ALL PROVISIONS, NCLUDING NOTIFICATION OF ALL OWNERS OF UNDERGROUND UTILITIES AT LEAST 2 BUSINESS DAY HOURS, BUT NOT MORE THAN 10 BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION.
4. CONTRACTOR TO COORDINATE INSTALLATION OF GAS SERVICE WITH "SOUTHERN CALIFORNIA GAS COMPANY", CONTACT ALAN KESELOFF (909) 335–7656 ENGINEERING DEPARTMENT. ALL EXTERIOR GAS PIPING SHALL BE PAINTED.
5. DETAILED INVESTIGATION OF EXISTING CONDITIONS ARE PART OF THE CONTRACT WORK. VISIT THE JOB SITE PRIOR TO BID. REVIEW AVAILABLE EQUIPMENT LAYOUTS, ASSEMBLY DRAWINGS AND INSTALLATION SCHEDULES.
6. DOMESTIC WATER HAS BEEN ENGINEERED. RESIZING OF ANY LINES SHALL BE SUBMITTED FOR WRITTEN APPROVAL BY ENGINEER ONLY PRIOR TO COMMENCING OF ANY CONSTRUCTION.
7. CONTRACTOR SHALL COORDINATE ALL UTILITY LINES EXITING OR ENTERING BUILDING WITH DIVISION 2 SPECIFICATIONS AND CIVIL ENGINEER'S UTILITY PLAN DRAWINGS AND OTHER TRADES.
8. BARRIER FREE REQUIREMENTS: PROVISIONS HAVE BEEN DESIGNED TO PROVIDE FIXTURES IN ACCORDANCE WITH A.D.A., ANSI AND STATE OF CALIFORNIA REGULATIONS. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS AND REPORT TO ARCHITECT OR OWNER'S REPRESENTATIVE WHEN FIELD CONDITIONS PREVENT CORRECT INSTALLATION.
9. DOMESTIC HOT WATER IS SUPPLIED TO LAVATORIES AT A MAXIMUM TEMPERATURE OF 110°F IN PUBLIC AREAS.

PLUMBING DRAWING LIST

P–0.1 PLUMBING LEAD SHEET
P–0.2 PLUMBING EQUIPMENT SCHEDULES
P–0.3 PLUMBING DETAILS

P–1.1 PLUMBING SITE PLAN

P–2.1 STADIUM CLUB–PLUMBING FLOOR PLAN
P–2.2 STADIUM CLUB–PLUMBING ROOF PLAN
P–2.3 STADIUM CLUB–ENLARGED PLAN (WASTE AND VENT)
P–2.4 STADIUM CLUB–ENLARGED PLAN (HOT & COLD WATER, AND GAS)

P–3.1 ADMINISTRATION BUILDING–PLUMBING FLOOR PLAN
P–3.2 ADMINISTRATION BUILDING–PLUMBING ROOF PLAN

P–4.1 CONCESSION BUILDING–PLUMBING PLANS

P–5.1 MAINTENANCE BUILDING–PLUMBING PLAN

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Perris, California 92570

SHEET TITLE
PLUMBING LEAD SHEEET

100% CONSTRUCTION DOCUMENT

DATE	REVISIONS

STAMP

REGISTERED PROFESSIONAL ENGINEER
RICHARD HOLZER
No. 22941
Exp. 12-31-2010
STATE OF CALIFORNIA

CHECKED BY	DATE
-	-

DATE 01-07-10	FILE NAME
DRAWN BY -	SHEET P-0.1
JOB NO. 05208.00	
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