GENERAL PLUMBING NOTES

DESCRIPTIONS
1. ALL PLUMBING GENERAL NOTES, SYMBOLS, LISTS AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL PLUMBING DRAWINGS FOR THIS PROJECT.
2. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND EXACT LOCATIONS AND ARRANGEMENTS OF EXIST./NEW EQUIPMENT, DUCTWORK, PIPING AND OTHER COMPONENTS SHALL BE DETERMINED IN THE FIELD WITH DUE CONSIDERATION OF STRUCTURAL, ELECTRICAL AND ARCHITECTURAL SYSTEMS. EXISTING STRUCTURAL SYSTEMS SHALL NOT BE MODIFIED WITHOUT THE EXPRESS PERMISSION OF THE ENGINEER.
3. THE PROJECT SHALL BE PHASED IN ACCORDANCE WITH THE APPROVED PHASING PLAN. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE PROJECT ENGINEER FOR THE SEQUENCING AND TIMING OF OPERATIONS PRIOR TO COMMENCING WORK. SEE SPECIFICATIONS.
4. CONTRACTOR IS TO MAINTAIN SERVICE TO ROOMS OUTSIDE THE PROJECT SCOPE OF WORK AND PHASING SCHEDULE. IF INTERRUPTION OF SERVICE IS REQUIRED COORDINATE SHUTDOWN WITH PROJECT ENGINEER.
5. CARE SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SYSTEMS AND SURFACES TO REMAIN. RESTORE DAMAGED AREAS THAT ARE BEYOND THE SCOPE OF THIS CONTRACT TO THEIR ORIGINAL CONDITION.
6. WHERE INDICATED ON THE DRAWINGS, REMOVE OR RELOCATE EXISTING COMPONENTS AS REQUIRED TO ACCOMMODATE THE NEW WORK. REMOVALS SHALL INCLUDE ALL ASSOCIATED OFF-SITE DISPOSAL COSTS.
7. COORDINATE REMOVALS AND RELOCATION'S INCLUDING SELECTIVE CUTTING AND PENETRATIONS WITH ARCHITECTURAL, MECHANICAL, STRUCTURAL AND ELECTRICAL CONTRACTORS.
8. MOST PARTITIONS ARE FULL HEIGHT AND REQUIRE UTILITIES PENETRATIONS TO BE SEALED. SEE ARCHITECTURAL DWGS FOR PARTITION HEIGHTS. DUCTWORK SHOWN FOR CLARITY THAT MAY RUN PARALLEL TO WALL PARTITIONS WILL REQUIRE LOCATING IN THE FIELD TO MINIMIZE CONFLICT WITH PARTITIONS.
9. FIELD VERIFY EXISTING EQUIPMENT AND PIPING PRIOR TO REMOVAL OR REUSE. CONFIRM WITH PROJECT ENGINEER THAT ALL EQUIPMENT AND PIPING DESIGNATED TO BE REMOVED IS NO LONGER IN SERVICE PRIOR TO ITS REMOVAL. PROJECT ENGINEER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL DEMO'D EQUIPMENT.
10. EXISTING EQUIPMENT AND PIPING TO REMAIN IN SERVICE SHALL BE INSPECTED, REPORT INOPERABLE EQUIPMENT TO PROJECT ENGINEER.
11. ALL UNUSED (ABANDONED), PIPING AND EQUIPMENT INDICATED TO BE REMOVED SHALL BE REMOVED AND CAPPED.
12. TIE-IN POINT LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL DETERMINE EXACT LOCATIONS IN THE FIELD BASED ON EXISTING CONDITIONS.
13. COORDINATE THE LOCATIONS OF ALL WALL MOUNTED EQUIPMENT WITH FINAL EQUIPMENT/FURNITURE LAYOUT.
14. AT THE END OF EACH WORKING DAY, THE CONSTRUCTION SITE SHALL BE LEFT IN A CLEAN AND NEAT CONDITION.
15. INSTALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND GOOD PRACTICE NORMAL TO THE TRADE. INSTALLATION SHALL INCLUDE PROVISIONS FOR ACCESS TO NORMAL MAINTENANCE ITEMS SUCH AS BELTS, BEARINGS, FILTERS AND MOTORS. PROVIDE ADEQUATE STRUCTURAL SUPPORTS AND SECURE MOUNTING METHODS WITH PROVISIONS FOR VIBRATION ISOLATION AND EXPANSION WHERE REQUIRED.
16. COORDINATE ALL PENETRATIONS WITH GENERAL CONTRACTOR. SEE ARCHITECTURAL DRAWINGS FOR PENETRATION DETAILS. PLUMBING CONTRACTOR SHALL PROVIDE FLASHING AND COUNTER FLASHING FOR ROOF PENETRATIONS AS REQUIRED.
17. PROVIDE PIPE SUPPORTS, GUIDES AND OFFSETS AS NECESSARY TO PREVENT UNDUE STRAIN ON PIPING.
18. SEE DETAILS AND PIPING DIAGRAMS FOR ADDITIONAL VALVES AND FITTINGS NECESSARY FOR COMPLETE PIPING SYSTEMS.
19. SEE SPECIFICATIONS FOR OTHER REQUIREMENTS.
20. CONTRACTOR SHALL FIELD VERIFY ALL CLEARANCES AND DIMENSIONS.
21. PROVIDE ACCESS PANELS FOR ALL CONCEALED SHUT-OFF VALVES EXCEPT THOSE ABOVE SUSPENDED CEILING.
22. INFILL ALL NEW OR EXISTING ABANDONED FLOOR SLAB PENETRATIONS WITH GROUT, FULL THICKNESS OF SLAB. MAINTAIN 2 HR FIRE RATING. ALL EXISTING CONCRETE FLOORS AND CHASES ARE 2 HOUR FIRE RATED.
23. ALL DOMESTIC WATER SUPPLY, VENT AND MEDICAL GAS PIPING SHALL BE RUN ABOVE CEILINGS OR WITHIN PARTITIONS UNLESS OTHERWISE NOTED.
24. PLUMBING RISERS SHALL BE RUN CONCEALED WITHIN WALLS OR CHASES. COORDINATE WITH ARCHITECTURAL DRAWINGS.
25. COORDINATE FINAL LOCATIONS OF MEDICAL GAS OUTLETS, AND VALVE BOXES WITH ARCHITECT.
26. SANITARY LINES SHALL SLOPE 1/4" PER FOOT UNLESS NOTED OTHERWISE.

GENERAL ABBREVIATIONS

ABBREVIATIONS	DESCRIPTIONS
AD	DUCT ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ARCH	ARCHITECT
AS	AIR SEPARATOR
BS	BELOW SLAB (TYPE "K" COPPER)
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
C&HW	COLD & HOT WATER
CO	CLEAN OUT
CONN	CONNECT
CONTR	CONTRACTOR
CW	COLD WATER
DIA	DIAMETER
DN	DOWN
D	DRAIN
DW	DRINKING WATER
DWR	DRINKING WATER RECIRC.
DWG OR DWGS	DRAWING(S)
E.EX OR (E)	EXISTING
EA.	EACH
EC	ELECTRICAL CONTRACTOR
EL	EXPANSION LOOP
ET	EXPANSION TANK
ETBR	EXISTING TO BE REMOVED
ETR	EXISTING TO REMAIN
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FDTP	FLOOR DRAIN W/ TRAP PRIMER
FPHB	FREEZE PROOF HOSE BIBB
FPM	FEET PER MINUTE
FT	FEET
GAL	GALLONS
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GV	GATE VALVE
H	HEIGHT
HP	HORSE POWER
HW	HOT WATER
HWR	HOT WATER RECIRCULATION
I.P.C.	INTERNATIONAL PLUMBING CODE
ID	INSIDE DIAMETER
IN	INCHES
IR	INDIRECT WASTE
KW	KILOWATTS
MBH	THOUSANDS OF B.T.U.'S PER HOUR
MECH	MECHANICAL
MTD	MOUNTED
N.C. OR NC	NORMALLY CLOSED
N.O. OR NO	NORMALLY OPEN
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PSI	POUNDS PER SQUARE INCH
RD	ROOF DRAIN
RM	ROOM
RV	RELIEF VALVE
RWL	RAIN WATER LEADER
S	SANITARY
SD	SANITARY DRAIN
SF	SQUARE FEET
SP	STATIC PRESSURE
SS	STAINLESS STEEL
TYP	TYPICAL
V	VENT
VB	VACUUM BREAKER
VTR	VENT THROUGH ROOF
W	WASTE
W/	WITH
WCO	WALL CLEANOUT

GENERAL SYMBOLS

SYMBOLS	DESCRIPTIONS
	POINT OF CONNECTION TO EXISTING (TIE-IN POINT)
	LIMIT OF DEMOLITION
D/PR #	EQUIPMENT, GRILLE, REGISTER OR DIFFUSER TAG
#	REVISION TAG
	REVISION CLOUD
RH-1	EQUIPMENT DESIGNATION
1	KEYNOTE CALL OUT
P	PRESSURE GAUGE W/PETCOCK
F	FLOW SWITCH
PS	PRESSURE SWITCH
T	THERMOMETER W/IMMERSION WELL
V	AUTOMATIC AIR VENT
V	MANUAL AIR VENT
12"	PIPE SIZE (DIAMETER)
12"S UP 14"DN 1-1/2"	PIPE SIZE, GANG RISERS (DIAMETER)

NEW EQUIPMENT SYMBOLS

SYMBOLS	DESCRIPTIONS
	EXISTING MOP SINK OR SHOWER
	EXISTING TOILET
	EXISTING WATER COOLER
	EXISTING PLUMBING FIXTURE TO REMAIN
	NEW MOP SINK OR SHOWER
	NEW TOILET
	NEW WATER COOLER
	NEW PLUMBING FIXTURE

DEMOLITION EQUIPMENT SYMBOLS

SYMBOLS	DESCRIPTIONS
	EXISTING MOP SINK OR SHOWER TO BE REMOVED
	EXISTING TOILET TO BE REMOVED
	EXISTING WATER COOLER TO BE REMOVED
	EXISTING PLUMBING FIXTURE TO BE REMOVED

PIPING SYMBOLS

SYMBOLS	ABBREVIATIONS	DESCRIPTIONS
		EXISTING PIPING TO REMAIN
		EXISTING PIPING TO BE REMOVED
		NEW PIPING
	DHWR	DOMESTIC HOT WATER RECIRCULATION PIPING
	DCW	DOMESTIC COLD WATER PIPING
	DHW	DOMESTIC HOT WATER PIPING
	V	VENT PIPING
		PIPING BELOW FLOOR/UNDER SLAB
G	G	GAS PIPING
O	O	OXYGEN
A	A	MEDICAL AIR
MV	MV	MEDICAL VACUUM
N	N	NITROGEN
NO	NO	NITROUS OXIDE
CO2	CO2	CARBON DIOXIDE
WAGD	WAGD	WASTE ANETHESIA GAS DISPOSAL (EVAC)
DI	DI	DE-IONIZED WATER
		PIPE DROP
		PIPE RISER
		PIPE TEES - DOWN
		PIPE TEES - UP
		PIPE CONNECTION
		PIPE BREAK - TO CONTINUE
		DIRECTION OF FLOW
G		GAS METER
M		WATER METER
		PIPE SLOPE
		P-TRAP
	ANCHOR	PIPE ANCHOR
		PIPE CAP
	GUIDE	PIPE GUIDE
		WATER HAMMER ARRESTOR
	U	UNION
	BLV	BALL VALVE
	BFV	BUTTERFLY VALVE
	SCV	SWING CHECK VALVE
	CBV	CIRCUIT BALANCE VALVE
	ACV	2-WAY AUTOMATIC CONTROL VALVE
	ACV	3-WAY AUTOMATIC CONTROL VALVE (MIXING PATTERN)
	GV	GATE VALVE
	GLV	GLOBE VALVE
MPV	MPV	MULTIPURPOSE VALVE
	PRV	PRESSURE REGULATING VALVE
	T	THERMOMETER
	LCV	LIFT CHECK VALVE
	FLG	FLANGE
		STRAINER W/DRAIN VALVE AND CAP
		DRAIN VALVE AND CAP
	RSV	RELIEF OR SAFETY VALVE
	PGV	PLUG VALVE
	QC	QUICK CLOSING, FUSIBLE LINK
	QO	QUICK OPENING
	SHC	SQUARE HEAD COCK
	BFP	BACK FLOW PREVENTOR
	CRD	CONCENTRIC REDUCER (ENLARGER)
	ERD	ECCENTRIC REDUCER (ENLARGER)
	FD	FLOOR DRAIN
	FCO	FLOOR CLEAN OUT

MEDICAL GAS SYMBOLS

SYMBOLS	DESCRIPTIONS
	NEW MEDICAL GAS ALARM PANEL OR VALVE BOX
O	NEW WALL MOUNTED RECESSED OXYGEN OUTLET.
V	NEW WALL MOUNTED RECESSED MEDICAL VACUUM OUTLET WITH SLIDE.
A	NEW WALL MOUNTED RECESSED MEDICAL AIR BRACKET.

PLUMBING ALTERNATE LIST

NUMBER	TITLE

NOTE:
REFER TO ARCHITECTURAL DOCUMENTS FOR DEDUCT ALTERNATE ITEMS.

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No.	Date	Description
Revision Schedule		

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TITLE
PLUMBING LEGEND AND GENERAL NOTES

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