SEISMIC CODE BLOCK

LISTING OF EQUIPMENT AND SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOFS, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY SEALED ANCHORAGE AND SWAY BRACING DETAILS			COMMENTS
					ON CONSTRUCTION DOCUMENTS	SUBSEQUENT SUBMITTAL		
	NOT PROVIDED FOR PROJECT	PROVIDED FOR PROJECT	NOT PROVIDED FOR PROJECT	PROVIDED FOR PROJECT	DRAWING No. OR SPEC SECTION	SHOP DRAWINGS [1]	SEPARATE PERMIT & PLANS	
SANITARY WASTE PIPING		X		X		X		EXCEPTION - 2" DIAMETER OR SMALLER NO-HUB CAST IRON PIPE
SANITARY VENT PIPING		X		X		X		
DOMESTIC WATER PIPING		X		X		X		EXCEPTION - TYPE 'L' COPPER PIPE 2-1/2" DIAMETER OR SMALLER
DEIONIZED WATER PIPING	X		X					
STORM WATER / ROOF DRAINAGE PIPING		X		X		X		
DOMESTIC WATER HEATERS		X		X		X		
DOMESTIC WATER EXPANSION TANK		X		X		X		
DOMESTIC WATER BACKFLOW PREVENTER		X		X		X		
DUPLEX SUMP PUMP	X		X					
ELEVATOR SUMP PUMP DISCHARGE	X		X					
PLUMBING FIXTURES	X							
LABORATORY CENTRAL AIR COMPRESSOR		X		X		X		
LABORATORY CENTRAL VACUUM		X		X		X		
HIGH PURITY LABORATARY WATER SYSTEM		X		X		X		
LABORATORY COMPRESSED AIR PIPING	X		X					
LABORATORY VACUUM PIPING	X		X					
HIGH PURITY WATER PIPING (DEIONIZED WATER)	X		X					

[1] WHERE THIS COLUMN IS SELECTED, THE FOLLOWING SHALL APPLY:

A. THE CONTRACTOR SHALL SUBMIT DETAILS OF ANCHORAGE INCLUDING THE FOLLOWING:

1. SPECIFIC INFORMATION RELATING TO THE SPECIFIC TYPE AND SIZE OF ANCHORAGE
2. SPECIFIC LOCATION OF SUCH ANCHORAGE.
3. DETAILS OF SWAY BRACING AND ANCHORING OF EQUIPMENT TO INCLUDE:
   - MATERIAL USED.
   - ATTACHMENT OF THE BRACING TO THE STRUCTURE AND COMPONENT BEING BRACED.
   - LOCATION OF TRANSVERSE AND LONGITUDINAL SWAY BRACING AND ROD STIFFENERS.

B. ALL SHOP DRAWINGS SUBMITTED AS PART OF THE REQUIREMENTS OF THIS SHEET SHALL CONTAIN THE STAMP OF A REGISTERED MISSOURI PROFESSIONAL ENGINEER.

C. THE CONTRACTOR MAY SUBMIT AUTHORIZED REPRODUCTIONS OF THE CERTAIN DETAILS AND TABLES FROM DESIGN MANUALS OR GOVERNMENTAL AGENCIES THAT PERTAIN TO SEISMIC SUPPORT AND BRACING, AND TABLES SUBMITTED SHALL:

1. BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL STRUCTURAL ENGINEER WHO PREPARED OR SUPERVISED THE PREPARATION OF THE DETAIL AND ASSOCIATED CALCULATIONS.
2. DEFINE THE COMPONENT, LOCATION AND SIZE TO EASILY IDENTIFY THE INTENT, ITEM TO BRACED OR ANCHORED, APPLICABLE COMPONENTS, AND LOCATION.

D. THE MECHANICAL ENGINEER OF RECORD WILL FORWARD THE SUBMITTED DETAILS, ANY REQUIRED COVER LETTERS OR PROFESSIONAL SEALS. THIS DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING THE SIGNED AND SEALED DRAWINGS NOTED IN C. ABOVE.

DELEGATED - DESIGN SUBMITTAL

PROVIDE DESIGN CALCULATIONS AND DETAILS FOR SEISMIC RESTRAINTS, COMPLYING WITH PERFORMANCE REQUIREMENTS, DESIGN CRITERIA AND ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE PREPARATION. CALCULATE STATIC AND DYNAMIC LOADING DUE TO EQUIPMENT WEIGHT, OPERATION AND SEISMIC FORCES REQUIRED TO SELECT VIBRATION ISOLATORS AND SEISMIC RESTRAINTS.

CODE DATA

FOLLOWING LATEST CODES AS ADOPTED BY AUTHORITY HAVING JURISDICTION:
2009 INTERNATIONAL BUILDING CODE (IBC)
2009 INTERNATIONAL MECHANICAL CODE (IMC)
2009 INTERNATIONAL FIRE CODE (IFC)
2009 INTERNATIONAL PLUMBING CODE (IPC)
AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE)
AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE)

PLUMBING SYMBOLS LEGEND

(NOTE: ALL ABBREVIATIONS MAY NOT APPEAR IN THIS PROJECT)

- WATER CLOSET
- WALL HUNG LAVATORY (LAV)
- SS COUNTERTOP SINK (SK)
- COUNTERTOP LAVATORY (LAV)
- URINAL (UR)
- ELECTRIC WATER COOLER (EWC)
- FLOOR DRAIN (FD) - ROUND
- FLOOR DRAIN (FD) - SQUARE
- FLOOR SINK (FS) - 3/4 GRATE
- SANITARY WASTE
- SANITARY VENT
- COLD WATER DOMESTIC
- HOT WATER DOMESTIC
- HOT WATER RETURN DOMESTIC
- DI — DEIONIZED WATER
- DT — DRAIN TILE
- ST — STORM
- CA — LABORATORY COMPRESSED AIR
- CV — LABORATORY VACUUM
- SHUT-OFF VALVE
- BALL VALVE
- WATER HAMMER ARRESTER
- ANGLE STOP VALVE
- UNION
- CAP
- PIPE TURNED DOWN
- PIPE TURNED UP
- TRAP
- TEE CONNECTION
- HOSE BIBB
- WALL CLEANOUT (WCO)
- # — KEYED NOTE - NEW WORK
- X# / PXXX — PLAN DESIGNATION
- XX / # — EQUIPMENT DESIGNATION

PLUMBING ABBREVIATION LEGEND

(NOTE: ALL SYMBOLS MAY NOT APPEAR IN THIS PROJECT)

AFF	ABOVE FINISHED FLOOR	L&V	LAVATORY
AP	ACCESS PANEL	MB	MOP BASIN
BFP	BACKFLOW PREVENTER	NIC	NOT IN CONTRACT
CO	CLEANOUT	NTS	NOT TO SCALE
CSS	CLINICAL SERVICE SINK	NO	NORMALLY OPEN
CW	COLD WATER DOMESTIC	OD	OVERFLOW DRAIN
DI	DEIONIZED WATER	PC	PLUMBING CONTRACTOR
DWH	DOMESTIC HOT WATER HEATER	PRV	PRESSURE REDUCING VALVE
DS	DOWNSPOUT	RD	ROOF DRAIN
GC	GENERAL CONTRACTOR	RI	ROUGH-IN
EC	ELECTRICAL CONTRACTOR	S	SANITARY
EWC	ELECTRIC WATER COOLER	SS	SCRUB SINK
FCO	FLOOR CLEANOUT	SH	SHOWER
FD	FLOOR DRAIN	SK	SINK
FFE	FINISH FLOOR ELEVATION	SOV	SHUT OFF VALVE
FLL	FLOOR LINE	SSD	SUB-SOIL DRAINAGE PIPING
FS	FLOOR SINK	ST	STORM WATER
GI	GREASE INTERCEPTOR	TMV	TEMPERATURE MIXING VALVE
GD	GARBAGE DISPOSAL	TP	TRAP PRIMER
HB	HOSE BIBB	UN	UNION
HW	HOT WATER DOMESTIC	V	VENT
HWR	HOT WATER RETURN DOMESTIC	WC	WATER CLOSET
HCP	HOT WATER CIRCULATING PUMP	WCO	WALL CLEANOUT
IE	INVERT ELEVATION	WH	WALL HYDRANT
IMB	ICE-MAKER BOX	WHA	WATER HAMMER ARRESTER
IW	INDIRECT WASTE	YCO	YARD CLEANOUT

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PLUMBING GENERAL NOTES:

1. THESE NOTES, LEGENDS AND DESCRIPTIONS ARE TYPICAL FOR THIS PROJECT ONLY. UNLESS STATED OTHERWISE. ANY CONFLICTS OF WORK SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER PRIOR TO THE PURCHASE OF MATERIALS OR COMMENCEMENT OF WORK. IF NOT, THE CONTRACTOR CLAIMS ALL RESPONSIBILITY.
2. THESE PLANS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO REPRESENT THE ACTUAL SITE CONDITIONS. THE PLUMBING CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS PRIOR TO COMMENCING WORK. DO NOT SCALE THESE PLANS.
3. THE PLUMBING CONTRACTOR (FURTHER "CONTRACTOR") SHALL HAVE A GOOD WORKING KNOWLEDGE OF THE PROJECT SITE AND THE SCOPE OF WORK.
4. WORK INSTALLED SHALL BE IN STRICT COMPLIANCE WITH GOVERNING CODES AND REGULATIONS. WHERE DRAWINGS AND SPECIFICATIONS EXCEED THE (MINIMUM) CODE REQUIREMENTS, THE CONTRACT DOCUMENTS SHALL BE FOLLOWED.
5. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING CONSTRUCTION AND DIMENSIONS AND TO ROOM FINISH SCHEDULES FOR MATERIAL, FINISH AND CONSTRUCTION METHODS FOR WALLS, FLOORS AND CEILINGS IN ORDER TO INSURE PROPER ROUGH-IN INSTALLATION OF WORK.
6. CONTRACTOR SHALL VISIT THE SITE TO INSPECT SITE CONDITIONS PRIOR TO SUBMITTING BID TO DETERMINE IF ANY EXISTING CONDITIONS THAT MAY AFFECT EXECUTION OF WORK.
7. CONTRACTOR SHALL OBTAIN REQUIRED PERMITS FOR WORK FROM AUTHORITIES HAVE JURISDICTION AND ASSUME COSTS OF PERMITS AND INSPECTIONS.
8. CONTRACTOR SHALL COMPLY WITH LOCAL TRADE CUSTOMS AND LABOR TRADE AGREEMENTS WHICH DETERMINE PARTICULAR TRADE THAT SHALL BE EMPLOYED FOR COMPLETION WORK.
9. CONTRACTOR SHALL COORDINATE WITH OTHER CONSTRUCTION TRADES ON THIS PROJECT AND VERIFY CLEARANCES TO PREVENT CONFLICTS.
10. ALL OFFSETS, TRANSITIONS AND FITTINGS NECESSARY TO SUCCESSFULLY INSTALL THE FIXTURES, EQUIPMENT AND PIPING SYSTEMS ARE NOT NECESSARY SHOWN ON THESE PLANS, BUT SHALL BE INCLUDED IN THE SCOPE OF WORK.
11. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT ROOM FLOOR DRAINS PRIOR TO INSTALLATION. INSTALL TOP ELEVATION OF ALL FLOOR DRAINS AND AREA DRAINS AS DIRECTED BY ARCHITECT.
12. ALL SANITARY AND STORM DRAIN PIPING 3" DIAMETER AND SMALLER SHALL BE INSTALLED AT 1/4" PER FOOT (2%) SLOPE.
13. ALL SANITARY WASTE PIPING 4" DIAMETER AND LARGER SHALL SLOPE AT A MINIMUM OF 2% WHERE POSSIBLE. A 1% SLOPE SHALL BE MAINTAINED AT A MINIMUM, WHEN FIRST APPROVED BY THE AUTHORITY HAVING JURISDICTION.
14. ALL FLOOR DRAINS IN MECHANICAL ROOM SHALL BE PROVIDED WITH AUTOMATIC TRAP SEAL PRIMER CONNECTIONS.
15. CONTRACTOR MUST FURNISH AND INSTALL INDIVIDUAL SHUT-OFF VALVES AT ALL PLUMBING FIXTURES AND EQUIPMENT, ETC.
16. FIRESTOP ALL OPENINGS FOR PIPING IN RATED WALLS, FLOORS AND CEILINGS AS REQUIRED BY THE SPECIFICATIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF SUCH RATINGS AND ASSEMBLIES.
17. NO FLOOR OPENINGS SHALL PENETRATE THE REINFORCED PORTIONS OF BEAMS OR RIBS. DO NOT CUT STRUCTURAL REINFORCING WITHOUT SPECIFIC WRITTEN DIRECTION FROM STRUCTURAL ENGINEER.
18. CONTRACTOR SHALL FURNISH AND INSTALL ALL SLEEVES WHERE INDICATED ON DRAWINGS AND/OR REQUIRED WHERE FIELD CONDITIONS DICTATE. CONTRACTOR SHALL PROVIDE DIMENSIONED SLEEVE DRAWINGS FOR REVIEW BY ARCHITECT AND ENGINEERS.

PLUMBING NEW WORK NOTES:

1. ALL PLUMBING WORK SHALL BE IN FULL COMPLIANCE WITH THE 2009 EDITION OF THE INTERNATIONAL PLUMBING CODE, WITH ALL AMENDMENTS AS ADOPTED BY THE CITY OF WEBSTER GROVES.
2. ALL MATERIALS, FIXTURES, EQUIPMENT ETC.. FURNISHED AND INSTALLED ON THIS PROJECT SHALL BE NEW AND UNUSED.
3. ALL FIXTURES AND EQUIPMENT SHALL BE CLEANED PRIOR TO OWNERS ACCEPTANCE.
4. DAMAGE TO AREAS OR EXISTING MATERIALS OUTSIDE THIS SCOPE OF WORK SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.
5. PROVIDE DIELECTRIC PIPE FITTINGS AS REQUIRED WHERE JOINING DISSIMILAR MATERIALS.
6. PLUMBING CONTRACTOR SHALL VERIFY ALL ROUGH-IN DIMENSIONS PRIOR TO ORDERING FIXTURES AND MATERIALS. PROVIDE OFFSETS AND TRANSITIONS AS REQUIRED TO COMPLETE INSTALLATION.
7. PROVIDE WALL AND CEILING ACCESS DOORS/PANELS AS REQUIRED TO ACCESS SHUT-OFF VALVES. SELECT SIZE AND TYPE BASED ON MOUNTING SURFACE AND USAGE. ACCESS DOORS/PANELS SHALL BE STEEL CONSTRUCTION WITH SCREWDRIVER CAM LOCKS.
8. THE PLUMBING CONTRACTOR SHALL FULLY COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR AND ALL TRADES ON THIS PROJECT. COORDINATION SHALL OCCUR PRIOR TO COMMENCING WORK AND THROUGHOUT THE PROJECT. ALL CONFLICTS DUE TO A LACK OF COORDINATION SHALL BECOME THE SOLE RESPONSIBILITY OF THIS CONTRACTOR.

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P0601	SCHEDULES - PLUMBING
P0602	SCHEDULES - PLUMBING

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CONFORMED SET **01 JUL 2016**

No.	Description	Date
2	ADDENDUM 2-2	19 APR 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016

Drawing Title:

PLUMBING ABBREVIATIONS, SEISMIC, & NOTES

Project No.: 04561.01 Checked by:

P0001

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