

## 6.01.30 – APPENDIX: UT STANDARD CAD DETAILS DESIGN AND CONSTRUCTION STANDARD

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### Design & Construction Standard Detail Drawings:

All Standard Detail Drawings presented herein are intended to assist architects, engineers, other design professionals, contractors and UT staff in understanding the preferences of The University of Texas at Austin in the development, maintenance, construction and repair of its facilities. These Detail Drawings are intended to be used as guidelines. Detail Drawing documents require modification to meet the conditions and appurtenances of each project; therefore the legal responsibility for project document preparation shall continue to reside with the Design Professional. Refer to the Welcome Page for additional requirements. The Detail Drawings were created in AutoCAD 2007 file format; AutoCAD is a registered trademark of Autodesk Inc.

**Please Note:** These Detail Drawing documents are for use by The University of Texas at Austin, its consultants and contractors and remain the property of The University of Texas at Austin at all times.

### Division 21: Fire Protection:

1	JOCKEY PUMP DETAIL
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### Division 22: “Plumbing”

P-22-1-3	FLOOR DRAIN INSTALLATION DETAIL
P-22-1-4	FLOOR DRAIN INSTALLATION DETAIL
P-22-1-12	FLOOR DRAIN INSTALLATION DETAIL
P-22-1-13	FLOOR DRAIN INSTALLATION DETAIL
P-22-2-2	PIPE SUPPORT DETAIL
P-22-2-5	PIPE SUPPORT DETAIL
P-22-2-6	MODULAR COMPRESSION PIPE SEAL AND SLEEVE DETAIL
P-22-2-7	PIPE SLEEVE DETAILS
P-22-2-8	WATER, WASTE & VENT PIPING HANGERS & SUPPORTS DETAIL
P-22-5-1	LAVATORY & SINK CONNECTION DETAIL
P-22-5-5	LAVATORY & SINK CONNECTION DETAIL
P-22-5-6	DETAIL: LAB SINK CONNECTION

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Division 23: “Heating, Ventilating and Air Conditioning”

M-23-1-5	TYPICAL BRANCH DUCT WITH 45° CLINCH TAP DETAIL
M-23-1-6	TYPICAL BRANCH DUCT WITH CONICAL TAP DETAIL
M-23-1-10	LINED SOUND PLENUM
M-23-1-16	LATERAL MIXING TEE DETAIL
M-23-1-18	CEILING DIFFUSER CONNECTION DETAIL
M-23-1-19	CEILING FIRE DAMPER DETAIL
M-23-1-20	FIRE DAMPER INSTALLATION DETAIL
M-23-1-28	LATERAL MIXING TEE DETAIL
M-23-1-32	VAV FUME HOOD DETAIL (BUILDINGS WITH PNEUMATIC CONTROLS)
M-23-3-1	WATER PIPING HANGERS AND SUPPORTS DETAIL
M-23-3-2	PIPE SLEEVE DETAIL
M-23-3-3	WATER PIPING HANGERS AND SUPPORTS DETAIL
M-23-3-4	PIPE THRU ROOF DETAIL
M-23-4-2	STEAM HEATING COIL PIPING DIAGRAM REHEAT POSITION
M-23-4-2-A	STEAM HEATING COIL PIPING DIAGRAM PREHEAT POSITION
M-23-4-8	PIPING SCHEMATIC: STEAM COIL
M-23-4-10	SERIES CHILLED WATER COIL PIPING DIAGRAM
M-23-4-17	CHILLED WATER INSULATION DETAIL AT AHU COIL
M-23-4-18	CONDENSATE DRAIN DETAIL
M-23-4-19	SCHEMATIC AIR BLEED/TEST VALVE SCHEMATIC
M-23-4-23	PIPING DIAGRAM: STEAM TRAP AT END OF MAIN
M-23-4-25	INSTRUMENT TAPS IN PIPING DETAIL
M-23-4-27	SPLIT CHILLED WATER COIL PIPING DIAGRAM
M-23-4-31	INSTRUMENTATION & MISCELLANEOUS PIPING TAPS (BELOW AMBIENT TEMP)
M-23-4-34	COOLING COIL MOUNTING DETAILS
M-23-5-8	STEAM CONDENSATE TANK & DUPLEX PUMP DETAIL
M-23-5-10	END SUCTION PUMP PIPING DETAIL
M-23-6-1	AHU - FRONT ACCESS FILTER HOUSING DETAIL
M-23-8-3	MIXING LATERAL CONTROL DIAGRAM
M-23-8-6	LOW TEMPERATURE SAFETY MOUNTING DETAIL
M-23-8-22	THERMOSTAT & DAMPER CONTROLLER ASSEMBLY DETAIL
M-23-8-23	THERMOSTAT & DAMPER CONTROLLER ASSEMBLY DETAIL

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Instrumentation & Controls:

The following details involving pneumatic controls are applicable to existing renovations only.

1	AHU SMOKE MANAGEMENT SCHEMATIC
2	VAV AIR HANDLER BAS SCHEMATIC
3	HVAC AND FIRE ALARM SMOKE MANAGEMENT INTERFACE PANEL DETAIL
4	VAV AIR HANDLER BAS SCHEMATIC & INSTRUMENTATION SCHEMATIC
5	DC POWER SUPPLY WIRING
6	UTILITY POWER BAS SCHEMATIC
7	STEAM PRESSURE BAS SCHEMATIC
8	DC POWER SUPPLY BAS SCHEMATIC
9	LIQUID RECEIVER BAS SCHEMATIC
10	CONDENSATE TEMPERATURE BAS SCHEMATIC
11	SUMP PUMPS BAS SCHEMATIC
12	FLOOD DETECTOR BAS SCHEMATIC
13	UPS BAS SCHEMATIC
14	FLOW METER BAS SCHEMATIC
15	MISC FAN BAS SCHEMATIC
16	PUMP BAS SCHEMATIC
17	SINGLE ZONE AHU BAS SCHEMATIC
18	INSERTION TEMPERATURE SENSOR THERMOWELL LOCATION - HORIZONTAL
19	DETAIL SECTION A-A
20	INSERTION TEMPERATURE SENSOR THERMOWELL LOCATION - VERTICAL PIPING
21	DETAIL SECTION B-B
22	INSERTION TEMPERATURE SENSOR THERMOWELL LOCATION - PIPE ELBOW
23	BAS ENCLOSURE LAYOUT
24	BAS FIELD INTERFACE PANEL LAYOUT
25	BAS RISER DIAGRAM - TYPICAL WITH BAS ZONE CONTROL
26	BAS RISER DIAGRAM - TYPICAL WITHOUT BAS ZONE CONTROL
27	MIXING LATERAL ELECTRIC ACTUATOR WIRING DETAIL
28	MIXING LATERAL CONTROLLER ENCLOSURE MOUNTING DETAIL
29	MIXING LATERAL ENCLOSURE LAYOUT DETAIL
30	ROOM SENSOR MOUNTING DETAIL
31	OUTSIDE PRESSURE SENSOR
32	INSTRUMENT AIR STATION
33	AIR HANDLER INSTRUMENTATION
34	ANNUNCIATOR WIRING DETAIL
35	AHU SAFETY AVERAGING ELEMENT MOUNTING DETAIL
36	WIRING FOR FANS & PUMPS
37	THERMOSTAT & DAMPER CONTROLLER ASSEMBLY DETAIL 1
38	THERMOSTAT & DAMPER CONTROLLER ASSEMBLY DETAIL 2
39	LATERAL MIXING TEE DETAIL
40	MIXING LATERAL CONTROL DIAGRAM DETAIL