HVAC SYMBOLS LIST

SYMBOL:	DESCRIPTION:
	EXISTING TO BE REMOVED
	EXISTING TO REMAIN
	NEW
	MANUAL VOLUME DAMPER
	NEW DUCT
	DIRECTION OF AIR FLOW
	FABRIC DUCT CONNECTION
	MOISTURE LADEN EXHAUST DUCT
	MANUAL VOLUME DAMPER
R	RISE IN DIRECTION OF AIR FLOW
D	DROP IN DIRECTION OF AIR FLOW
	DUCT DOWN
	DUCT UP
	SUPPLY/OUTSIDE AIR DUCT SECTION
	RETURN AIR DUCT SECTION
	EXHAUST/RELIEF AIR DUCT SECTION
CD-1 6/115	AIR TERMINAL PROPERTIES — SYMBOL / NECK SIZE/CFM

HVAC SYMBOLS LIST

SYMBOL:	DESCRIPTION:
	OPPOSED BLADE DAMPER (SEE SCHEDULE)
	PARALLEL BLADE DAMPER (SEE SCHEDULE)
H	HUMIDISTAT
T	THERMOSTAT/SENSOR (NOTE INDICATES CONTROL TYPE)
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
D	COOLING COIL CONDENSATE DRAIN LINE
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
COND	CONDENSATE RETURN
PC	PUMPED CONDENSATE
HPS	HIGH PRESSURE STEAM
LPS	LOW PRESSURE STEAM
	PIPE DOWN
	PIPE UP OR UP/DOWN
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
	THROTTLING VALVE
	CONTROL VALVE (THREE-WAY)
	CONTROL VALVE (TWO-WAY)
	CHECK VALVE
	SAFETY/RELIEF VALVE

HVAC SYMBOLS LIST

SYMBOL:	DESCRIPTION:
	PRESSURE REDUCING VALVE (STEAM)
	TRIPLE DUTY VALVE (IN-LINE TYPE)
	VACUUM BREAKER
	"WYE" - STRAINER W/SHUTOFF VALVE
	FLEXIBLE CONNECTION
	PRESSURE/TEMPERATURE TEST PLUG
	REDUCER - CONCENTRIC
M	METER
P	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	DRAIN VALVE WITH HOSE CONNECTION AND CAP
T	TEMPERATURE SENSOR WITH WELL
	THERMOMETER WITH WELL (FILLED TYPE)
FM	FLOW METER
TT	STEAM TRAP (SEE SCHEDULE)
AFF	ABOVE FINISHED FLOOR
DPG (0-2")	DIFFERENTIAL PRESSURE GAUGE (RANGE)
DP	DIFFERENTIAL PRESSURE TRANSMITTER
PS	PRESSURE SENSOR
DN	DOWN

HVAC SYMBOLS LIST

SYMBOL:	DESCRIPTION:
LC	LEAD CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
EA	EXHAUST AIR
MA	MIXED AIR
NC	NEW CONNECTION
OAL	OUTSIDE AIR LOUVER
EAL	EXHAUST AIR LOUVER
SUP.	SUPPLY
GR.	GRILLE
CLG	CEILILNG
FLR	FLOOR
TR	TRANSFER
RET	RETURN

FIRE/SMOKE BARRIER DESIGNATIONS

THE SYMBOLS SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

ALL FLOOR ASSEMBLIES SHALL BE DESIGNATED AS 2 HOUR FIRE BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS.

RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED 08/28/09.

1 HOUR FIRE BARRIER	
2 HOUR FIRE BARRIER	
SMOKE BARRIER	

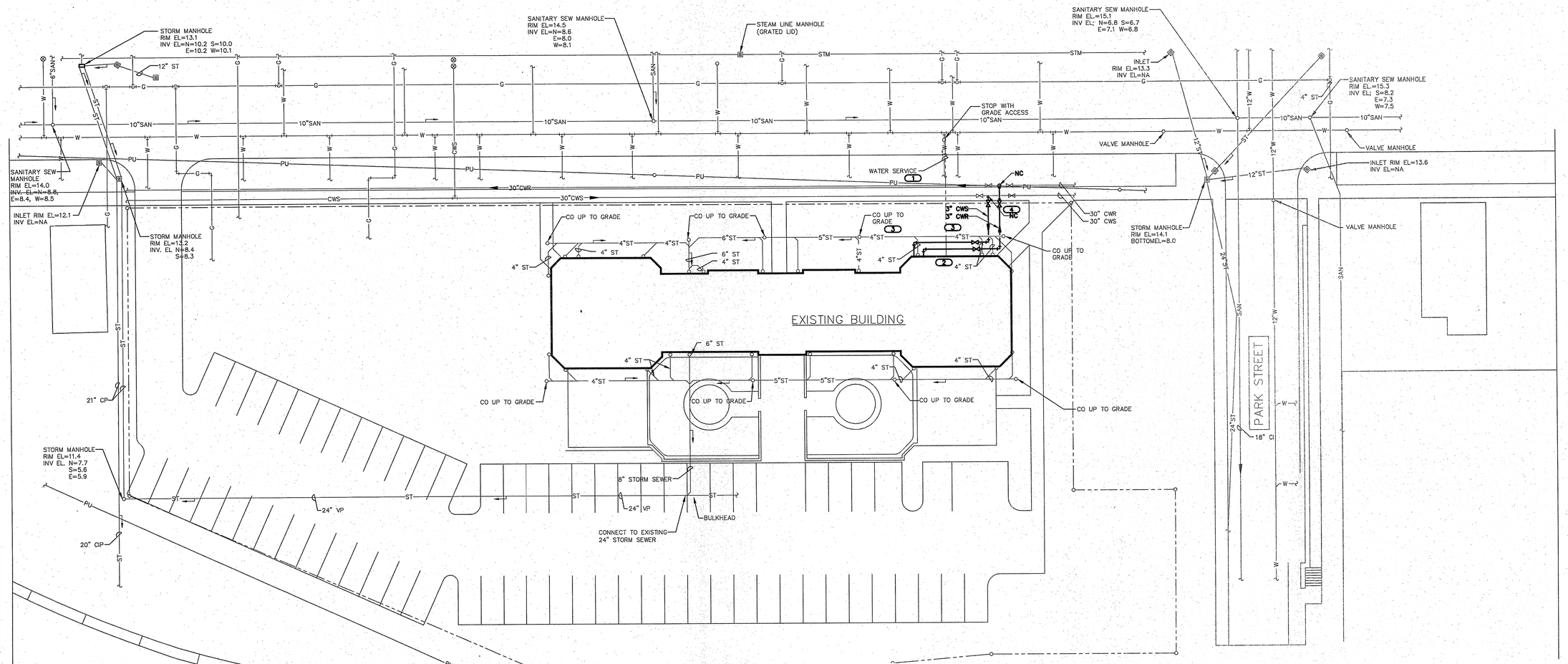
GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE TIMING OF CAMPUS SYSTEM TIE-IN WITH CAMPUS PRIOR TO WORK.

KEYNOTES

KEYNOTES BELOW ARE SPECIFIC FOR THIS DRAWING ONLY.

1. M.C. SHALL CONNECT NEW CHILLED WATER PIPING TO EXISTING CAMPUS MAINS IN ACCESS PIT AT THIS LOCATION. ROUTE TO BUILDING WITH A MINIMUM OF 6'-0" OF GROUND COVER. COORDINATE SCHEDULE OF TIE-IN WITH CAMPUS FACILITIES.
2. EXISTING STEAM AND CONDENSATE SERVICE TO THE BUILDING SHALL REMAIN.
3. CONTRACTOR WHO'S WORK CREATES DISTURBANCE SHALL RESTORE ALL DISTURBED SURFACES, INCLUDING SIDEWALK AND LAWN TO MATCH EXISTING CONDITIONS. REFER TO DIVISION 33 SPECIFICATIONS FOR MORE INFORMATION.
4. M.C. SHALL PROVIDE ISOLATION VALVES IN ACCESS PIT. REFER TO SPECIFICATION SECTION 33 61 10. CONTRACTORS CHOICE TO ROUTE CHILLED WATER PIPING DIRECTLY SOUTH FROM THE PIT INTO THE BUILDING, ENTERING ABOVE THE STEAM ENTRANCE OR FROM THE PIT TO THE BUILDING ACCESS POINT ALONG THE NORTH SIDE OF THE SIDEWALK TO AVOID THE EXISTING TREE ROOT SYSTEM. CONTINUE SOUTH, TO THE BUILDING, ROUTING PIPING BEYOND THE DRIP EDGE OF THE ADJACENT TREE.



1 SITE PLAN - MECHANICAL

SCALE: 1"=20'-0"

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Consultant:

KJWW ENGINEERING CONSULTANTS
Experience you can build on.
802 W. Broadway, Suite 312
Madison, Wisconsin 53713-1839
Telephone 608 223-9600
Website: www.kjww.com
KJWW# 08.0470.00

State of Wisconsin
Department of Administration
Division of State Facilities

Agency / Institution:
University of Wisconsin – Madison
Division of University Housing

Project Title:
Merit House Renovation

Project Location:
University of Wisconsin – Madison
Madison, Wisconsin

Sheet Title:
SITE PLAN – MECHANICAL

Revisions:

No.	Date:	Description:

Graphic Scale	0' 2' 4' 8' 12'
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