

**CONSULTANTS:**

OWNER'S PROJECT ADVISOR:  
MOSES TUCKER REAL ESTATE, INC.

CIVIL ENGINEER:  
McCLELLAND ENGINEERS

LANDSCAPE ARCHITECT:  
LARSON BURNS SMITH

STRUCTURAL ENGINEER:  
CROMWELL ENGINEERS INC.

MECH., ELEC., PLUMB. ENGINEER:  
CROMWELL ENGINEERS INC.

SUSTAINABLE CONSULTANT:  
BNIM / ELEMENTS

GLOBAL VILLAGE CONSULTANT  
CAMBRIDGE SEVEN ASSOCIATES

INTERIOR DESIGNER:  
POLK STANLEY YEARY

GENERAL CONTRACTOR:  
CDI

**GENERAL NOTES:**

**NOTES:**

ISSUE DATE:  
DECEMBER 15, 2003  
CORE/SHELL  
PACKAGE #5

**REVISIONS:**

#	DATE	DESCRIPTION
1	1-16-04	ADDENDUM #1
2	7-1-04	PACKAGE 7, 100% ROLL UP
3	11-29-04	ASI #27

**HEIFER  
INTERNATIONAL  
CENTER  
OFFICE BUILDING**

LITTLE ROCK, ARKANSAS

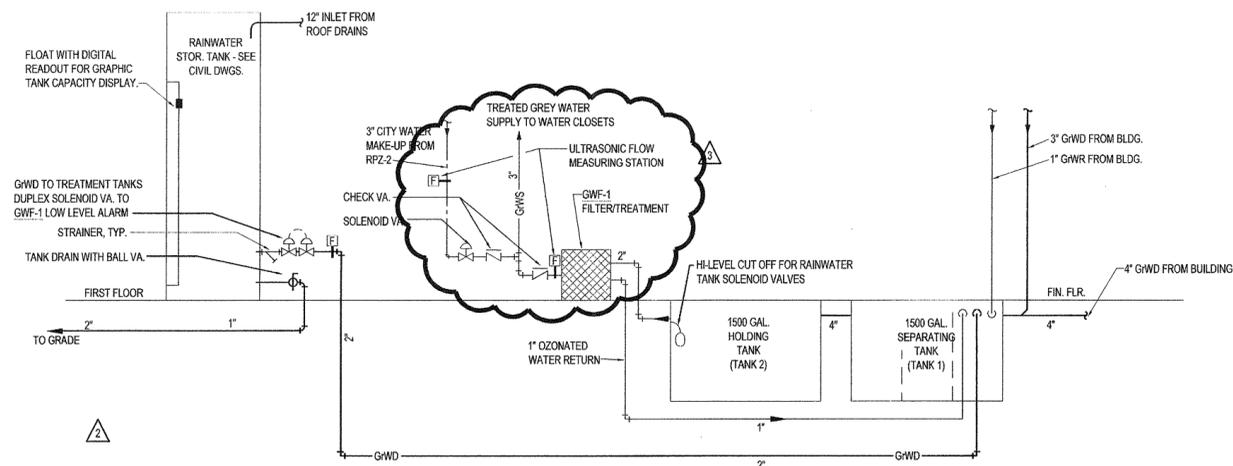
PSY PROJECT NUMBER:  
431C

**CONTENTS:**

HVAC CONTROLS

SHEET NUMBER:

**M406**



**SEQUENCE OF OPERATION:**

**NORMAL**

GREY WATER FROM BUILDING (GWD) FLOWS TO SEPARATING / HOLDING TANKS. DISCHARGE FROM TANK. EFFLUENT IS THEN DRAWN OFF TO GW-1. THE GREY WATER SUPPLY (GWS) IS THEN PUMPED TO THE BUILDING WATER CLOSETS.

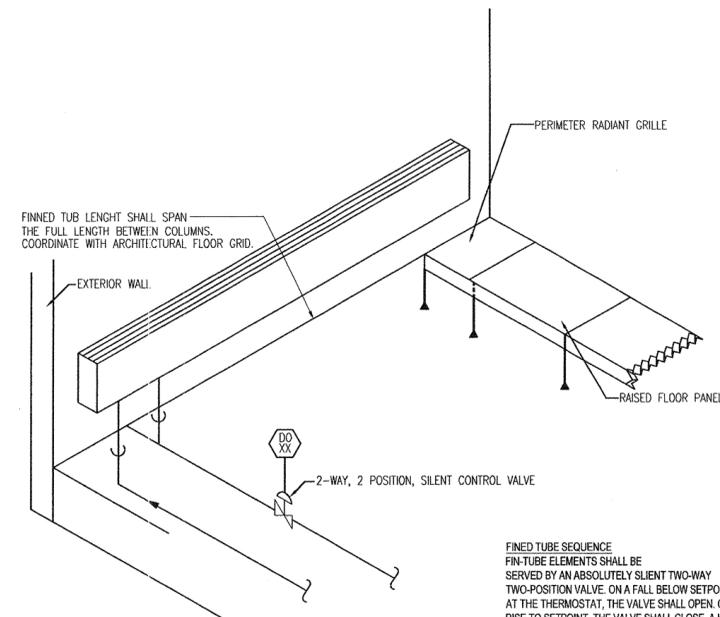
**STANDBY #1**

IF THE GREY WATER IN THE SYSTEM DROPS TO A MINIMUM LEVEL, AS DETECTED BY THE LOW LEVEL SWITCH IN GW-1, THEN THE SOLENOID SWITCH AT THE RAINWATER STORAGE TANK ENERGIZES TO ALLOW STORED RAINWATER TO ENTER TANK 1. THE SOLENOID VALVE WILL SHUT WHEN THE LOW LEVEL FLOAT IS SATISFIED.

**STANDBY #2**

IF THE LOW LEVEL SWITCH IN GW-1 REMAINS UNSATISFIED, THE SOLENOID VALVE AT THE CITY WATER CONNECTION WILL ENERGIZE TO ALLOW CITY WATER TO ENTER THE SYSTEM. THE SOLENOID VALVE WILL SHUT WHEN THE LOW LEVEL FLOAT IS SATISFIED.

**1 GREY WATER PIPING SCHEMATIC**  
M-406 | M-406 NO SCALE



**FINED TUBE SEQUENCE**

FIN-TUBE ELEMENTS SHALL BE SERVED BY AN ABSOLUTELY SILENT TWO-POSITION VALVE. ON A FALL BELOW SETPOINT AT THE THERMOSTAT, THE VALVE SHALL OPEN. ON RISE TO SETPOINT, THE VALVE SHALL CLOSE. A HOT WATER TEMPERATURE RESET SCHEDULE SHALL BE DEVELOPED THAT PROVIDES RESET OF WATER TEMPERATURE FROM 180° F TO A TO BE DETERMINED MINIMUM TEMPERATURE AS THE OUTDOOR TEMPERATURE VARIES FROM 65° F TO 15° F. ALL TEMPERATURES SHALL BE ADJUSTABLE. THE RATE OF REST WILL NOT BE LINEAR.

**2 HOT WATER FIN TUBE RADIATION PIPING  
FED FROM BELOW RAISED FLOOR**  
M-406 | M-406 NO SCALE



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