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CIVIL ENGINEER:
McCLELLAND CONSULTING
ENGINEERS INC.

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 ASSOCIATE

INTERIOR DESIGNER:
POLK STANLEY YEARY

GENERAL CONTRACTOR:
CDI CONTRACTORS, INC.

GENERAL NOTES:

NOTES:

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

REVISIONS:

#	DATE	DESCRIPTION

**HEIFER
INTERNATIONAL
CENTER
OFFICE BUILDING**
LITTLE ROCK, ARKANSAS

PSY PROJECT NUMBER:
431C

CONTENTS:
IRRIGATION LEGEND
NOTES AND DETAILS

SHEET NUMBER:
L303

QUANTITIES ARE SHOWN FOR CONVENIENCE ONLY. IT SHALL BE THE IRRIGATION CONTRACTOR'S RESPONSIBILITY TO CALCULATE ALL MATERIALS NECESSARY FOR A COMPLETE IRRIGATION SYSTEM.

IRRIGATION LEGEND

- 1 1" WATER METER W/30gpm @75psi REQUIRED.
- 1 1" WILKINS #975XL RP-TYPE BACKFLOW PREVENTER
- 9 RAINBRD XCZ-100COM 1" DRIP ZONE VALVE ASSY. W/ DIG 1521S MICROPOWER ACTUATOR
- 5 RAINBRD 100PEB 1" ZONE VALVE W/FLO CONTROL W/ DIG 1521S MICROPOWER ACTUATOR
- 1 DIG LEIT-X28 (28) STATION "LIGHT POWERED" CONTROLLER W/ MOUNTING COLUMN KIT & PROGRAMMING KEY
- 1 HUNTER MINICLIK - AUTO RAIN SHUTOFF SENSOR W/ DIG 8821-4 SWITCH TYPE SENSOR ADAPTER
- 5 RAINBRD 3RC QUICK COUPLING VALVE (PROVIDE 2 KEYS)
- 2 HUNTER INST-04 POP-UP TURF SPRAY W/10A NOZZLE
- 12 HUNTER INST-04 POP-UP TURF SPRAY W/12A NOZZLE
- 19 HUNTER INST-04 POP-UP TURF SPRAY W/15A NOZZLE
- 27 HUNTER INST-04 POP-UP TURF SPRAY W/17A NOZZLE
- 74 HUNTER INST-04 POP-UP TURF SPRAY W/SS-530 NOZZLE
- 2 HUNTER INST-04 POP-UP TURF SPRAY W/RC-515 NOZZLE
- 2 HUNTER INST-04 POP-UP TURF SPRAY W/LC-515 NOZZLE

- HD POLYETHYLENE MAINLINE PIPING
- HD POLYETHYLENE LATERAL PIPING
- POLYETHYLENE DRIP TUBING (NETAFIM TDL-6-18)
- SLEEVING (2" = HDPE / 3-4" = SCH40 PVC)

GENERAL NOTES

1. IRRIGATION CONTRACTOR SHALL INSTALL ALL EQUIPMENT AS PER MANUFACTURER'S CURRENT SPECIFICATIONS AND RECOMMENDATIONS.
2. IRRIGATION CONTRACTOR SHALL VERIFY A MINIMUM DYNAMIC WATER PRESSURE OF 75psi WITH A FLOW RATE OF 30gpm AT THE WATER METER LOCATION PRIOR TO INSTALLATION. IRRIGATION CONTRACTOR SHALL NOTIFY ARCHITECT IF WATER PRESSURE IS LESS THAN OR SIGNIFICANTLY HIGHER THAN NOTED.
3. COORDINATE EXACT LOCATION OF POINT-OF-CONNECTION WITH THE ARCHITECT AND GENERAL CONTRACTOR.
4. COORDINATE EXACT LOCATION OF CONTROLLER WITH THE ARCHITECT AND GENERAL CONTRACTOR.
5. WHEN TRENCHING UNDER THE DRIPLINE OF EXISTING TREES EXTREME CARE MUST BE GIVEN TO AVOID ROOT DAMAGE. IF AT ALL POSSIBLE AVOID TRENCHING INSIDE THE DRIPLINE BY GOING AROUND THE TREE RATHER THAN UNDER IT. IF TRENCHING MUST OCCUR UNDER THE DRIPLINE, USE EITHER TUNNELING OR HAND-DIGGING METHODS RATHER THAN A MECHANICAL TRENCHER. MINIMIZE THE IMPACT OF ROOT SEVERING BY AVOIDING CONSTRUCTION DURING HOT, DRY WEATHER, KEEPING TREES WELL WATERED BEFORE AND AFTER DIGGING AND COVERING ROOTS WITH SOIL OR MULCH AS SOON AS POSSIBLE.
6. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES CAUSED TO ALL UTILITIES (BOTH OVERHEAD AND BELOW GROUND) DURING THE IRRIGATION INSTALLATION. IRRIGATION CONTRACTOR SHALL SEEK THE ASSISTANCE OF LOCAL UTILITIES AND THE OWNER IN THE LOCATION OF THE UTILITIES PRIOR TO PERFORMING TRENCHING OPERATIONS IN THE WORK AREA.
7. THE IRRIGATION DESIGN IS DIAGRAMMATIC. THE INTENT OF THE DRAWINGS IS TO SHOW THE GENERAL LAYOUT AND LOGIC OF THE SYSTEM. SCALED MEASUREMENTS MAY NOT BE ACCURATE. ACTUAL LOCATIONS AND QUANTITIES OF PIPE AND FITTINGS MAY VARY DUE TO FIELD ADJUSTMENTS FOR EXISTING CONDITIONS AND OTHER OBSTRUCTIONS TO PROVIDE THE PROPER AND INTENDED COVERAGE.
8. THE OWNER HAS CHOSEN TO REDUCE THE AMOUNT OF PVC USED IN THE CONSTRUCTION OF THIS IRRIGATION SYSTEM. MAINLINE AND LATERAL PIPING SHALL BE HDPE (HIGH DENSITY POLYETHYLENE) WITH A PRESSURE RATING OF 200psi. FITTINGS SHALL BE PVC BARBED INSERT TYPE USED WITH STAINLESS STEEL HOSE CLAMPS.

SLEEVING NOTES

1. ALL SLEEVING SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.
2. ALL SLEEVING PROVIDED FOR THE IRRIGATION SYSTEM TO BE SIZED AS NOTED ON THE PLAN.
3. ALL SLEEVING TO BE BURIED A MIN. OF 18" AND A MAX. OF 24" BELOW THE FINISHED GRADE. ENDS OF SLEEVES SHALL EXTEND 12" PAST THE EDGES OF ALL PAVING AND CURBS AND BE CLEARLY MARKED FOR FUTURE USE BY THE SPRINKLER SYSTEM CONTRACTOR.

NOZZLE PERFORMANCE DATA - (INST SERIES @ 30psi)

NOZZLE NO.	RADIUS FT.	45°	90°	120°	180°	240°	270°	360°
10A	10'	.24 gpm	.49 gpm	.65 gpm	.97 gpm	1.30 gpm	1.46 gpm	1.95 gpm
12A	12'	.36 gpm	.71 gpm	.95 gpm	1.42 gpm	1.90 gpm	2.14 gpm	2.85 gpm
15A	15'	.46 gpm	.93 gpm	1.24 gpm	1.86 gpm	2.48 gpm	2.79 gpm	3.71 gpm
17A	17'	.60 gpm	1.20 gpm	1.61 gpm	2.41 gpm	3.21 gpm	3.61 gpm	4.82 gpm
SS-530	5' x 30'	Side Strip		1.30 gpm				
RCS-515	5' x 15'	Right-Corner		.65 gpm				
LCS-515	5' x 15'	Left-Corner		.65 gpm				

