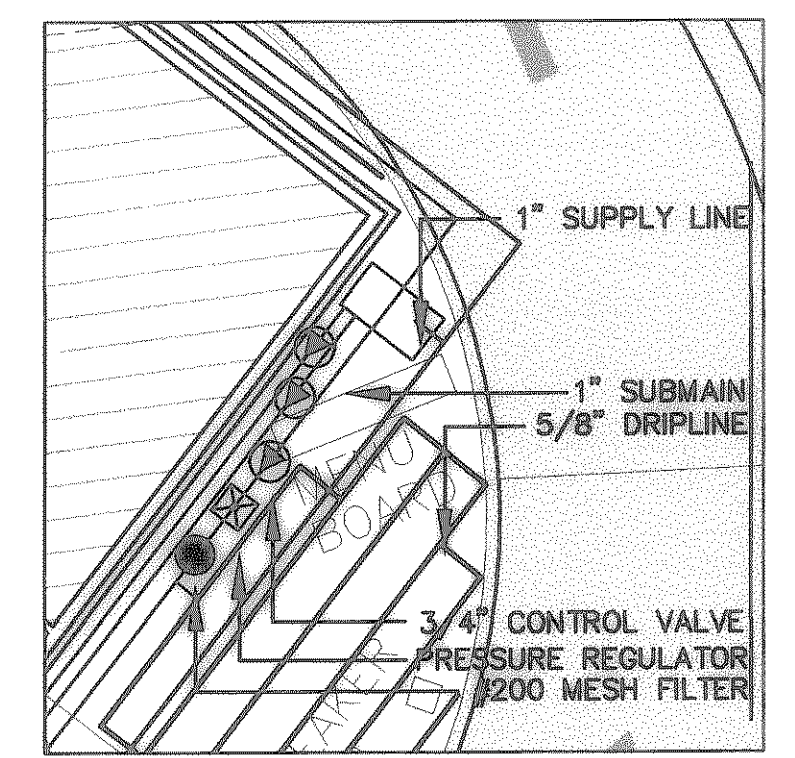
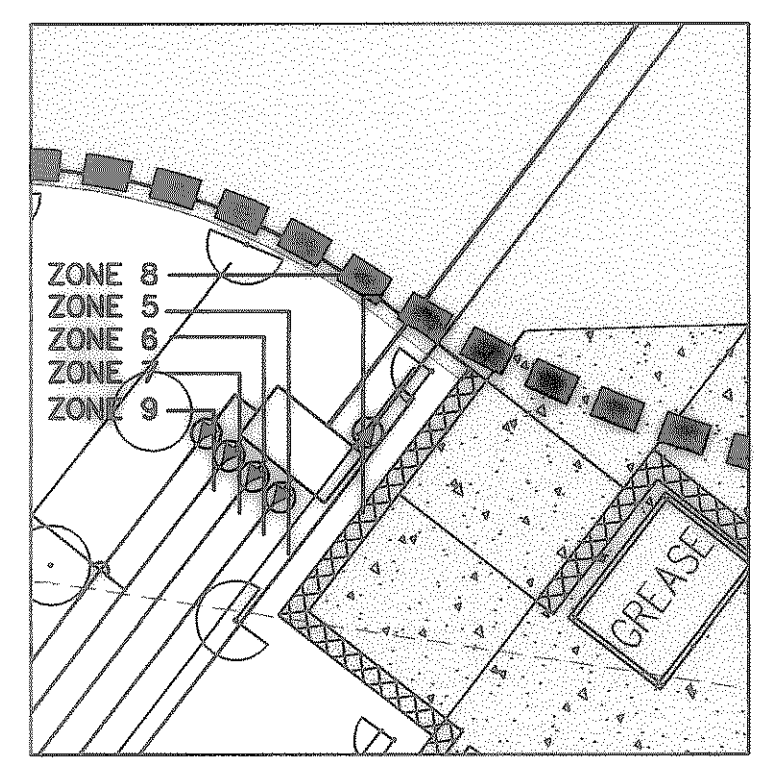


- SPECIFICATIONS:**
- CONNECTION TO MAIN:  
1 1/2" WATER METER ONLY TO BE INSTALLED BY CITY. METER BOX, TAP AND SERVICE SHALL BE INSTALLED BY IRRIGATION CONTRACTOR.
  - 2" FEBCO MODEL 850 DOUBLE CHECK ASSEMBLY SHALL BE INSTALLED FOR BACKFLOW PREVENTION.
  - MANUAL 2" BALL VALVE SHALL BE INSTALLED AT SOURCE OF MAINLINE FOR EMERGENCY SHUTOFF.
  - IRRIGATION SYSTEM SHALL CONSIST OF 2 SEPARATE SECTIONS INCLUDING 1 SPRINKLER SYSTEM AND 1 DRIP SYSTEM.
  - CONTROLLER:  
A. COMMERCIAL GRADE ELECTRIC CONTROLLER SUFFICIENT TO OPERATE 12 STATIONS AND 4 PROGRAMS SHALL BE INSTALLED BY CONTRACTOR.  
B. ELECTRIC WIRE SHALL BE #14-1 AWG-UF.  
C. LOCATION TO BE DETERMINED BY OWNER.
  - THREE VALVE BOXES SHALL BE INSTALLED BY CONTRACTOR.
  - ONE BALL TYPE ISOLATION VALVE SHALL BE INSTALLED AT EACH VALVE BOX.
  - SPRINKLER SYSTEM:  
A. EIGHT VALVE ZONES SHALL BE CREATED. MAXIMUM FLOW TO ANY VALVE ZONE SHALL BE 26 GPM.  
B. CONTROL VALVES SHALL BE 1 1/2" 24V ELECTRIC GLOBE STYLE VALVES. A TOTAL OF 8 VALVES SHALL BE INSTALLED.  
C. IRRIGATION MAINLINES SHALL BE 2" SCH 40 PVC.  
D. ALL LATERAL LINES FOR IRRIGATION SYSTEM SHALL BE CL 200 PVC.  
E. SPRINKLERS SHALL BE TORO 570Z PRX SERIES OR EQUIVALENT QUALITY.  
F. SPRAY NOZZLES SHALL BE TORO MPR PLUS OR EQUIVALENT QUALITY WITH 30 PSI OPERATION PRESSURE.  
G. STREAM ROTOR SPRINKLERS SHALL BE TORO 340 SERIES OR EQUIVALENT QUALITY WITH ADJUSTABLE RADIUS NOZZLES OPERATIONAL AT 35 PSI.
  - DRIP SYSTEM:  
A. DRIP IRRIGATION SYSTEM SHALL BE INSTALLED AT BUILDING FOUNDATION. THREE VALVE CIRCUITS SHALL BE CREATED.  
B. CONTROL VALVES SHALL BE 3/4" 24V ELECTRIC GLOBE STYLE VALVES. A TOTAL OF 3 VALVES SHALL BE INSTALLED.  
C. #200 MESH FILTER SHALL BE INSTALLED AT EACH VALVE CIRCUIT.  
D. PRESSURE REGULATOR SHALL BE INSTALLED AT EACH VALVE CIRCUIT ON THE DRIP SYSTEM.  
E. DRIP SYSTEM MAINLINES SHALL BE 1" SCH 40 PVC.  
F. DRIP SYSTEM SUBMAINS SHALL BE 1" CL 200 PVC.  
G. DRIP TUBING SHALL BE 5/8" PRESSURE COMPENSATING WITH 12" SPACING BETWEEN EMITTERS.  
H. DRIP SYSTEM SHALL HAVE FLUSH VALVE INSTALLED AT THE LOWEST POINT OF EACH VALVE CIRCUIT.  
I. DRIP SYSTEM SHALL HAVE AIR/VACUUM RELIEF VALVE INSTALLED AT THE HIGHEST POINT OF EACH VALVE CIRCUIT.  
J. EMITTERS AND TUBES SHALL NOT BE BURIED BUT MAY BE COVERED WITH MULCH.  
K. TUBING SHALL BE STAKED AT 3' INTERVALS WITH U-SHAPED 12 GAUGE WIRE TO PREVENT SLIPPING.



ENLARGEMENT A VALVES 5-9

ENLARGEMENT B DRIP SYSTEM VALVES

- LEGEND**
- PRESSURE REGULATOR
  - FILTER
  - IRRIGATION METER
  - CONTROL VALVE BOX
  - CONTROL VALVE
  - ISOLATION VALVE
  - BACKFLOW PREVENTER
  - SHRUB BUBBLER
  - FIXED SPRAY SPRINKLER
  - STREAM ROTOR

**NOTE:**  
1. IRRIGATION SYSTEM IS BASED ON AN ASSUMED STATIC WATER PRESSURE OF 50-60 PSI AS REPORTED BY THE CITY OF ROCKWALL ENGINEERING DEPT.  
2. PERMIT FROM BUILDING INSPECTION DEPARTMENT IS NEEDED FOR IRRIGATION.

**RECORD DRAWINGS**

THESE RECORD DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE ENGINEER HAS NOT VERIFIED THE ACCURACY OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT OR WHICH MAY BE ASSOCIATED WITH THE INFORMATION PROVIDED. JOHN E. HAWKINS & ASSOCIATES, INC.  
By: \_\_\_\_\_ Date: 7/29/02

**LANDSCAPE Legacies**  
Land Designer: Branda Conti  
PO BOX 237  
LINDSEY, TEXAS 75663  
PHONE: (803) 835-1000

REVISION	DATE	DESCRIPTION	TAN	SHEET NO.
3	10/23/02	CITY COMMENTS (ADDED PERMIT NOTE)	TAN	C20
2	9/17/02	CITY COMMENTS	BWC	
1	9/11/02	RELOCATE 2 VALVE BOXES	BWC	
			BY	

**JOHN E. HAWKINS & ASSOCIATES, INC.**  
CONSULTING ENGINEERS SINCE 1957  
103 E VIRGINIA ST. SUITE 206  
MCKINNEY, TEXAS 75069, 972-548-2678

**JAMES LITTLEPAGE  
CULVER'S RESTAURANT  
IRRIGATION PLAN**

Scale: 1"=20' Date: AUG '02 Job No. 776.2  
Dsn. By: BWC Dwn. By: BWC Ckd. By: \_\_\_\_\_

**IRRIGATION PLAN**  
SCALE: 1" = 20'

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