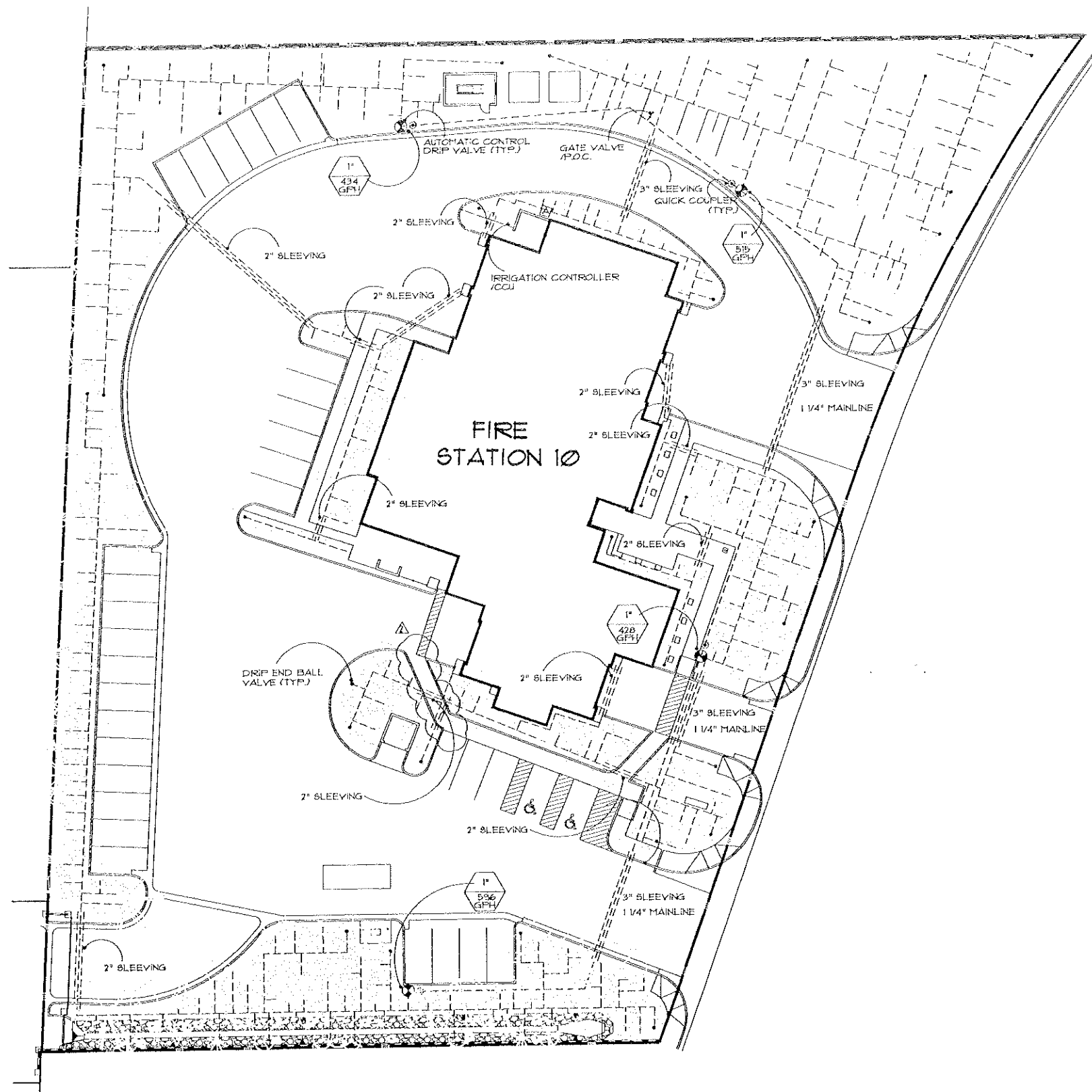




Irrigation Plan

Scale: 1"=20'-0"



## LEGEND/NOTES:

**POINT OF CONNECTION P.O.C.**  
Tie Onto Existing Line At Location Shown On Drawings.

**GATE VALVE**   
NIBCO Series Or Approved Equal (Line Size). Install At Locations Shown On Drawings Per Detail.

**QUICK COUPLER VALVE**   
Rainbird 44 NP 30 GPM Capacity. Install At Locations Shown On Drawings Per Detail.

**IRRIGATION CONTROLLER/ICCU**   
Rainbird ESP2-SITE-5 Station Controller. Install At Location Shown On Drawings Per Detail. Connect Controller To Existing 120 VAC Power Source.

**AUTOMATIC CONTROL DRIP VALVE ASSEMBLY**   
Rainbird 100-PEB Electric Remote Control Valve. Rainbird Wye Filter REY-100-2021X. Rainbird Pressure Regulator PSI-M-32X. Install At Locations Shown On Drawings Per Detail.

**DRIP EMITTERS**  
Agrifilm Uni-Flo Emitters UFC2AFC 20. Install Emitters On The Uphill Side Of The Rootball At Slope Locations. Equally Space The Required Number Of Emitters Around The Perimeter Of The Plant. (At Edge Of Rootball).

**DRIP END BALL VALVE**   
Flush Laterals And Install Drip End Ball Valves At Approximate Locations Shown On Drawings Per Detail.

**MAINLINE PIPE** ----  
Schedule 40 PVC Pipe. Pipe Sizes And Locations Shown On Drawings.

**DRIP LATERAL PIPE** ----  
Schedule 40 PVC Pipe. Pipe Locations Shown On Drawings. Are Diagrammatical. Pipe Installation Routes And Sizes Are At The Discretion Of The Contractor. Size PVC Pipe Adequately, Keeping Friction Loss To A Minimum. This Will Allow Drip Emitters To Operate Within Their Pressure Operating Range. (15 To 50 PSI) Recommended PVC Pipe Sizes Are 3/4" And 1".

**DRIP LATERAL HOSE**  
1/2" Excalibur PVC Hose Or Approved Equal. Install PVC Hose W/195 IPS Cement To Drip Lateral Pipe At Plant Locations Shown On Drawings Per Detail. (Drip Lateral Hose Not To Exceed Maximum Length Of 40').

**SLEEVES** ----  
Irrigation Sleeve Locations And Sizes Shown On The Drawings. Schedule 40 PVC Pipe.

**CONTROL WIRE**  
18-UL 14 Gauge Direct Burial Wire. Follow Mainline Piping Where Possible. Wire Color Shall Be Continuous Over Entire Length. All Splicing Of Wire Shall Occur Within The Valve Box At Valve Locations Using Snap-Tite Wire Connectors. Intermediate Splicing Of Wire Is Not Allowed. Use White For Common Ground Wire. Use Easily Distinguished Colors For Control Wire. Install One (1) Spare (Extra) Wire Looped Through Each Valve Location.

**HYDROSTATIC TEST:** UPON COMPLETION OF THE IRRIGATION MAIN AND PRIOR TO THE INSTALLATION OF ANY CONTROL VALVES, TEST THE ENTIRE MAIN OR PORTIONS OF THE MAIN FOR PROPER OPERATION. FLUSH ALL AIR FROM THE MAINS BEING TESTED AND CHECK ALL COMPONENTS FOR PROPER OPERATION. AFTER COMPLETION OF THE FLUSHING OPERATION, TEST THE MAIN LINES WITH 150 PSI HYDROSTATIC PRESSURE FOR A MINIMUM OF 2 HOURS. AFTER THE PRESSURE WITHIN THE MAINS HAS STABILIZED, NO PRESSURE LOSS WILL BE ALLOWED FOR THE TEST PERIOD. REMOVE AND/OR REPLACE ANY ITEM OR COMPONENT OF THE SYSTEM WHICH DOES NOT COMPLY WITH THE TEST, AND TEST THE ENTIRE SYSTEM AGAIN UNTIL SATISFACTORY TEST RESULTS ARE OBTAINED. CONTRACTOR SHALL REQUEST OBSERVATION BY THE CONSTRUCTION PROJECT REPRESENTATIVE 48 HOURS PRIOR TO TESTING. THE TEST SHALL BE MADE IN THE PRESENCE OF THE CONSTRUCTION PROJECT REPRESENTATIVE, SIGNED AND DATED.

CONSTRUCTION PROJECT REPRESENTATIVE \_\_\_\_\_ DATE \_\_\_\_\_

**COVERAGE OBSERVATION:** UPON COMPLETION OF THE IRRIGATION SYSTEM, CONTRACTOR SHALL PERFORM A COVERAGE TEST WITH THE CONSTRUCTION PROJECT REPRESENTATIVE PRESENCE ON ALL COMPONENTS OF THE SYSTEM TO VERIFY 100% COVERAGE. THE CONTRACTOR SHALL PERFORM ALL WORK AND FURNISH ALL MATERIALS NECESSARY TO CORRECT ANY INADEQUACIES AND ADJUST EMITTERS AS REQUIRED.

CONSTRUCTION PROJECT REPRESENTATIVE \_\_\_\_\_ DATE \_\_\_\_\_

1) This system was designed for 50 PSI minimum which the Contractor shall verify exists at the site. Should the pressure be less than this, notify the Landscape Architect so adjustments can be made.

2) Contractor shall verify the location of all underground utilities prior to start of construction. Call before you Dig 1-800-221-2600.

3) Contractor shall carefully study the drawings, examine the site, and shall be aware of all existing work and conditions that could possibly affect the irrigation work.

4) Irrigation layout is diagrammatical. Follow drawings as close as possible, making no changes or alterations without prior approval from the Construction Project Representative.

5) Final location and elevations of all valve boxes, backflow preventer, controller, and other appurtenances shall be verified and approved by the Construction Project Representative prior to installation.

6) Mainline pipe shall be no less than 18" below finish grade. Drip lateral lines shall be no less than 12" below finish grade. Main and drip lateral lines shall be surrounded with a minimum of 4" of sand or rock free soil.

7) Mainline pipe sizes shown on drawings. Drip lateral sizes are at the discretion of the Contractor.

8) Contractor shall furnish and install an irrigation system that provides the required amount of GPH to all new plantings. Maintain and provide record drawings as required by the contract documents that clearly show all installed irrigation components.



APPROVED AS PER BLDG. DEPT.

PROJECT

DEPARTMENT OF PUBLIC WORKS

CITY OF LAS VEGAS, NEVADA

FIRE STATION #10

Irrigation Plan

DEPARTMENT OF PUBLIC WORKS  
ARCHITECTURAL SERVICES

400 EAST STEWART AVENUE  
LAS VEGAS, NEVADA 89103  
PHONE: (702) 229-6335  
FAX: (702) 382-3232  
TDD: (702) 385-9106

ARCHITECT  
SAMUEL D. TOLMAN AIA, NCARB

DATE: 10/10/12  
SCALE: 1"=20'-0"

PROJECT: Fire Station #10

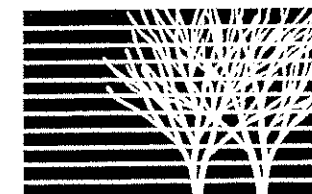
DATE: 8/10/12

PROJECT: Fire Station #10

DATE: 8/10/12

PROJECT: Fire Station #10

DATE: 8/10/12



Avoid cutting underground utility lines. Call before you Dig.  
1-800-221-2600