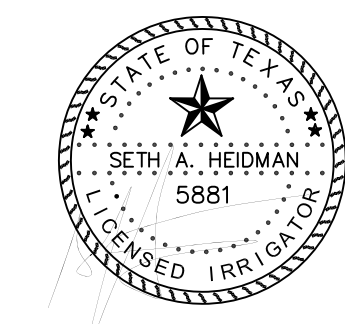


NOTES:

- ALL 24 VOLT LEAD AND COMMON VALVE WIRING SHALL BE A MINIMUM OF UF-14 GA. SINGLE CONDUCTOR REFER TO MANUFACTURER'S RECOMMENDATIONS FOR PROPER WIRE SIZE. WIRE SPLICES SHALL BE PERMANENT AND WATERPROOF.
- COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH LANDSCAPE CONTRACTOR TO ENSURE ALL PLANT MATERIAL WILL BE WATERED IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS.
- LATERAL PIPING SHALL HAVE A MINIMUM OF 12" OF COVER. MAINLINE AND PIPING UNDER PAVING SHALL HAVE A MINIMUM OF 18" OF COVER. USE WELD-ON #105 SOLVENT AND #1-68 PRIMER FOR PVC CONNECTIONS.
- PIPING AND VALVES IN PAVING SHOWN FOR CLARITY, INSTALL IN ADJACENT PLANTING BED OR LAWN AREA.
- CONNECT LAWN AND HIGH-POP SPRAY HEADS TO LATERAL PIPING WITH 1/2" THREADED GREEN POLY NIPPLE AS REQUIRED, PER DETAIL SHOWN. USE TURF-TITE SOLVENT AND TURF-TITE PRIMER ON THESE CONNECTIONS.
- CONNECT ROTARY HEADS TO LATERAL PIPE WITH LASCO "UNITIZED", O-RING SWING JOINTS PER DETAIL SHOWN, #T22-212.
- INSTALL QUICK COUPLING VALVES IN TWELVE BY SEVENTEEN (12"x17") INCH PENTEK VALVE BOX PER DETAIL SHOWN. CONNECT QUICK COUPLING VALVES TO MAINLINE PIPE WITH LASCO "UNITIZED", O-RING SWING JOINTS PER DETAIL SHOWN, #T22-212. SUPPLY OWNER WITH THREE (3) COUPLER KEYS WITH SUIVEL HOSE BIBS EACH, #3DK-10 AND #84-0 RESPECTIVELY. VALVES TO BE INSTALLED SO THAT TOP OF QUICK COUPLER IS 2" BELOW BOTTOM OF VALVE BOX TOP. PURPLE LID READS "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH.
- INSTALL ALL REMOTE CONTROL VALVES IN A TWELVE BY SEVENTEEN (12"x17") INCH PENTEK VALVE BOXES PER DETAIL SHOWN.
- PERFORM ELECTRICAL WORK IN ACCORDANCE WITH LOCAL BUILDING CODE. POWER (120V) SHALL BE LOCATED IN A JUNCTION BOX AND HARDWIRED WITHIN FIVE (5) FEET OF CONTROLLER LOCATION BY OTHER TRADES.
- ALL SLEEVES ARE EXISTING UNLESS OTHERWISE NOTES.
- LANDSCAPE IRRIGATION CONTRACTOR TO PROVIDE TRACE TAPE FOR ALL MAINLINE.
- CONTRACTOR TO INSTALL AND ADJUST VAN SERIES NOZZLES FOR SITUATIONS THAT REQUIRE LESS THAN 90° DEGREE RADIUS SPRAY.
- TEN DAYS PRIOR TO START OF CONSTRUCTION, VERIFY STATIC PRESSURE. IF STATIC PRESSURE IS LESS THAN 81.0 PSI, DO NOT START WORK UNTIL NOTIFIED TO PROCEED BY OWNER. DESIGN PRESSURE IS 64.0 PSI.
- MINIMUM DISTANCE BETWEEN MAIN LINE AND LATERAL LINE FITTINGS (EXCEPT FOR REDUCER BUSHINGS) TO BE 18".
- MINIMUM HORIZONTAL DISTANCE OF 36" TO BE MAINTAINED BETWEEN ANY VALVES THAT ARE INSTALLED SIDE BY SIDE.
- LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO STAKE TREE BUBBLER HEAD LOCATIONS AND RECEIVE APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- ALL FOUR-INCH MAINLINE SHALL HAVE A MAXIMUM OF TWENTY-EIGHT (28") INCHES AND A MINIMUM OF TWENTY-FOUR (24") INCHES OF COVER FROM FINISH GRADE.
- ALL FITTINGS FOR FOUR (4") INCH PIPE TO BE HARCO DEEP BELL DUCTILE IRON FITTINGS. FITTINGS SHALL HAVE DEEP BELL PUSH-ON JOINTS WITH GASKETS.
- ALL DEAD END MAINLINES TO BE CAPPED WITH BLIND FLANGE AND THRUST BLOCK. MINIMUM DISTANCE BETWEEN FLANGE AND FITTING TO BE FOUR (4) FEET.
- CONTRACTOR TO INSTALL DRAIN VALVES WITH TWO-INCH SCHEDULE 40 PVC MAINLINE TO CREEK. L.I.C. TO COORDINATE AND RECEIVE APPROVAL FROM TOWN OF ADDISON.
- PROVIDE AND INSTALL THRUST BLOCKS AT EACH CHANGE OF DIRECTION AND AT ALL VALVES PER THE MANUFACTURER'S RECOMMENDATION.
- LANDSCAPE IRRIGATION CONTRACTOR TO PROVIDE ALL LABOR AND MATERIAL NECESSARY TO INSTALL FLOW METERS ON THE DISCHARGE SIDE OF THE BACKFLOW PREVENTER. THERE WILL BE A TOTAL OF SIX (6) FLOW METERS AND RAINMASTER EV-CAB 6EN SHIELDED FLOW METER CABLE FOR THIS PROJECT. L.I.C. TO INSTALL FLOW METERS IN 12"x17" PENTEK VALVE BOX.
- LANDSCAPE IRRIGATION CONTRACTOR TO PROVIDE ALL LABOR AND MATERIAL NECESSARY TO INSTALL RAINMASTER EVOLUTION DX-2 SERIES CONTROLLER WITH STAINLESS STEEL PEDESTAL AND HEAVY DUTY TRANSIENT PROTECTION. L.I.C. TO INCLUDE BUT NOT LIMITED TO SUCH MATERIAL AS DX-03 SENSOR BOARD, DX-FH PHONE COMMUNICATION, FLOW METER, SHIELDED FLOW METER CABLE, RAIN/FREEZE SENSOR, AND DEDICATED TELEPHONE SERVICE. CONTACT BILL ROSSER WITH JOHN DEERE FOR ANY QUESTIONS.
- TOWN OF ADDISON IRRIGATION SPECIFICATIONS DATED 05/31/07 WILL SUPERCEDE THE PLANS, DETAILS, AND/OR SPECIFICATIONS FOR THIS PROJECT.
- LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO STAKE DRIP TECHLINE AND RECEIVE APPROVAL FROM OWNER'S REPRESENTATIVE BEFORE INSTALLATION.
- LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO PROVIDE DISTRIBUTION TUBING, STAKES, EMITTERS, TRANSFER FITTINGS, DIFFUSER BUG CAP, CONTROL ZONE KITS, TECHLINE FLAGS, ETC. NECESSARY FOR PROPER INSTALLATION OF THE BEDS. ALL PVC HEADER PIPING TO BE 1-1/4" CLASS 200 PVC SOLVENT WELD PIPE.
- LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO INSERT ALL BARBED FITTINGS PER MANUFACTURER'S RECOMMENDATIONS.
- ALL TECHLINE AND DISTRIBUTION TUBING TO BE INSTALLED AT FINISH GRADE AND BELOW MULCH LAYER. ALL TECHLINE TO BE INSTALLED ON ONE FOOT ROW SPACING. TUBING TO BE STAKED WITH NETAFIM STAPLES #TL86 SERIES. INSTALL STAKES AT 3'-0" ON CENTER ALONG LENGTH OF TUBING AND A MINIMUM OF 36" FROM ANY FITTINGS.
- AIR/VACUUM RELIEF VALVES TO BE NETAFIM MODEL #TLAVRY INSTALLED IN A SIX-INCH (6") PENTEK ROUND VALVE BOX WITH BLACK LID.
- LINE FLUSH VALVES TO BE NETAFIM MODEL #TLFY-1 INSTALLED IN A SIX-INCH (6") PENTEK ROUND VALVE BOX WITH BROWN LID AND GRAVEL SUMP.
- LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO INCLUDE THE FOLLOWING ALLOWANCES FOR PROVIDING AND INSTALLING AIR RELIEF VALVES AND FLUSH VALVES FOR THE DRIP SYSTEM. EXACT QUANTITY AND LOCATION OF THESE DEVICES WILL BE DETERMINED AT THE TIME OF INSTALLATION. IN GENERAL, ALL AIR RELIEF VALVES WILL BE INSTALLED AT THE HIGH POINTS AND FLUSH VALVES WILL BE INSTALLED AT THE LOW POINTS. ALLOW FOR APPROXIMATELY ONE HUNDRED TWENTY FOUR (124) AIR RELIEF VALVES AND APPROXIMATELY ONE HUNDRED TWENTY FOUR (124) FLUSH VALVES FOR THIS PROJECT.
- PROVIDE NETAFIM REPRESENTATIVE WITH A SOIL SAMPLE FOURTEEN (14) DAYS PRIOR TO BEGINNING OF THE PROJECT. NETAFIM TO TEST SOIL AND PROVIDE LANDSCAPE IRRIGATION CONTRACTOR WITH EXACT TECHLINE SPACING IN BED AREAS DUE TO SOIL SAMPLE RESULTS.
- LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO HAND DIG WITHIN ALL EXISTING TREE ROOT ZONES. L.I.C. TO STAKE DITCH LOCATIONS AND RECEIVE APPROVAL FROM TOWN OF ADDISON AND LANDSCAPE ARCHITECT PRIOR TO DIGGING.
- LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO INSTALL DRAIN VALVES ON PROPOSED FOUR-INCH MAINLINE. L.I.C. TO COORDINATE THESE LOCATIONS AND RECEIVE APPROVAL FROM TOWN OF ADDISON AND LANDSCAPE ARCHITECT PRIOR TO DIGGING. FOR BIDDING PURPOSES, ALLOW FOR FOUR (4) DRAIN VALVES.
- LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO INSTALL RED UF-14GA. WIRE FOR STATION WIRES, WHITE UF-14GA. WIRE FOR COMMON WIRE, AND BLUE UF-14GA. WIRE FOR MASTER VALVE WIRE PER TOWN OF ADDISON. REFER TO SPECIFICATIONS FOR INSTALLATION.
- LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO INSTALL ALL VALVE BOX WIRE SPLICES IN 12"x17" PENTEK VALVE BOX WITH GREEN LID. L.I.C. TO INSTALL ALL FIELD SPLICES IN 10" ROUND PENTEK VALVE BOX WITH GREEN LID.
- LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO PROVIDE A 36"x36"x6" CONCRETE PAD FOR ALL PEDESTAL MOUNT CONTROLLERS. PAD TO BE SET 3" ABOVE FINAL GRADE PER TOWN OF ADDISON. L.I.C. TO COORDINATE THESE LOCATIONS AND RECEIVE APPROVAL FROM TOWN OF ADDISON PRIOR TO INSTALLING.
- THE IRRIGATION SYSTEM IS DESIGNED TO OPERATE 200 GALLONS PER MINUTE. L.I.C. TO COORDINATE THE ZONING OF THE PARK SYSTEM AND RECEIVE APPROVAL FROM TOWN OF ADDISON PRIOR TO SECTIONING.
- FOR ANY QUESTIONS REGARDING THE SPECIFICATIONS OR RAINMASTER CONTROLLER, CONTACT RON LEE WITH THE TOWN OF ADDISON AT 972-672-1811.

IRRIGATION LEGEND:

| SYMBOL | DESCRIPTION | MANUFACTURER | MODEL NO. |
|--------|---|-------------------|--|
| ● | LAWN SPRAY HEAD | RAINBIRD (30 PSI) | 1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE |
| ☒ | HIGH-POP SPRAY HEAD | RAINBIRD (30 PSI) | 1812 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE |
| ⊕ | TREE BUBBLER HEAD | HUNTER (30 PSI) | #804 W/ HUNTER FCN-10 NOZZLE UNLESS OTHERWISE NOTED |
| ⊙ | TREE BUBBLER HEAD | HUNTER (30 PSI) | #804 W/ HUNTER FCN-10 NOZZLE UNLESS OTHERWISE NOTED |
| ■ | LAWN CENTER STRIP HEAD | RAINBIRD (30 PSI) | 1804 W/ #186TT NOZZLE |
| □ | LAWN END STRIP HEAD | RAINBIRD (30 PSI) | 1804 W/ #186CS OR #186CS NOZZLE |
| ⊞ | HIGH-POP CENTER STRIP HEAD | RAINBIRD (30 PSI) | 1812 W/ #186TT NOZZLE |
| ⊞ | HIGH-POP END STRIP HEAD | RAINBIRD (30 PSI) | 1812 W/ #186CS OR #186CS NOZZLE |
| ⊕ | SMALL ROTARY | HUNTER (40 PSI) | FGJ-4 W/ #2.5 NOZZLE |
| ⊕ | SMALL ROTARY PART-CIRCLE | HUNTER (40 PSI) | 1-20-4 W/ #2.0 NOZZLE |
| ⊕ | SMALL ROTARY PART-CIRCLE | HUNTER (40 PSI) | 1-20-12 W/ #2.0 NOZZLE |
| ⊕ | ROTARY PART-CIRCLE | HUNTER (40 PSI) | 1-20-4 W/ #4.0 NOZZLE |
| ⊕ | ROTARY FULL-CIRCLE | HUNTER (40 PSI) | 1-20-4 W/ #8.0 NOZZLE |
| ⊕ | ROTARY PART-CIRCLE | HUNTER (40 PSI) | 1-20-12 W/ #4.0 NOZZLE |
| ⊕ | ROTARY FULL-CIRCLE | HUNTER (40 PSI) | 1-20-12 W/ #8.0 NOZZLE |
| ▲ | QUICK COUPLING VALVE | BUCKNER | #V015-DNP WITH SPEARS BALL VALVE. PURPLE LID READS "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH. |
| ⊕ | REMOTE CONTROL VALVE | IRRITROL | 200B OMNI REG WITH SPEARS BALL VALVE AND HUNTER SVC CONTROLLER. REFER TO PLANS FOR SIZE AND LOCATION |
| ⊕ | REMOTE CONTROL VALVE | IRRITROL | 200B OMNI REG WITH SPEARS BALL VALVE REFER TO PLANS FOR SIZE AND LOCATION |
| ○ | BALL VALVE | SPEARS | COMPACT "T-HANDLE" LINE SIZE |
| ● | GATE VALVE | MATCO | #10RT SERIES - LINE SIZE |
| ■ | CONTROLLER | RAINMASTER | EVOLUTION DX-2 SERIES WITH MINICLIK RAIN/FREEZE SENSOR |
| — | MAINLINE PIPING | REFER TO SPEC. | 4" AND LARGER - CLASS 100 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 100 PVC-SOLVENT WELD JOINTS 2" AND SMALLER - SCHEDULE 40 PVC-SOLVENT WELD JOINTS |
| — | LATERAL PIPING | REFER TO SPEC. | 3/4" & LARGER - CLASS 200 PVC 1/2" - CLASS 315 PVC |
| — | DISTRIBUTION TUBING | NETAFIM | POLYETHYLENE TUBING W/ TL86 SOIL STAPLES |
| ⊕ | REMOTE CONTROL DRIP VALVE | NETAFIM | #VCZ1007B-HF LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE AND HUNTER SVC CONTROLLER. REFER TO PLAN FOR LOCATION |
| ⊕ | REMOTE CONTROL DRIP VALVE | NETAFIM | #VCZ1007B-HF LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE. REFER TO PLAN FOR LOCATION |
| ⊕ | PLANTING BED TECHLINE TUBING | NETAFIM | TLCV9-12 WITH TECHLINE BARBED FITTINGS, TL86 SOIL STAPLES, AND 10-F-01 TECHLINE FLAGS |
| ⊕ | BACKFLOW PREVENTER | WATTS | #2071 SERIES, REFER TO PLANS FOR SIZE |
| ⊕ | WATER METER | REFER TO SPEC. | PER LOCAL BUILDING CODE |
| ⊕ | ISOLATION VALVE | NIBCO | #1-13 SERIES, REFER TO PLANS FOR SIZE |
| ⊕ | WYE STRAINER | FEBCO | #50 SERIES, REFER TO PLANS FOR SIZE |
| ⊕ | FLOW METER | DATA INDUSTRIAL | #F5-P SERIES, REFER TO PLANS FOR SIZE |
| ⊕ | MASTER VALVE | IRRITROL | 200B SERIES, REFER TO PLAN FOR SIZE |
| ⊕ | STATION NUMBER VALVE SIZE GPM (APPROX.) | | |



4-26-10

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|--|--------|--|-------------|--|-------|------|--|
| NO. | | REVISION | | BY | | DATE | |
| TOWN OF ADDISON DALLAS COUNTY, TEXAS | | | | | | | |
| PARK IMPROVEMENTS VITRUVIAN PARK | | | | | | | |
| PARKWAY & PARK IRRIGATION DETAIL PLAN | | | | | | | |
| IRRI*TECH LLC. Irrigation Technology | | 12650 Schroeder Rd. Dallas, Texas 75243 | | Phone (972) 231-5151 Fax (972) 231-5172 | | | |
| PROJECT | DESIGN | DRAWN | DATE | FILE | SHEET | | |
| 5029-01 | SAH | ASH | APR 26 2010 | PW # 2009-04 | IR-24 | | |

Figure 10: Texas is regulated by the Texas Commission of Environmental Quality (TCEQ), 56176, P.O. Box 13097, Austin, Texas 78713-0307. ©2009 www.terraengine.com

PARK AND STREETScape IMPROVEMENTS - VITRUVIAN PARK