JOB # 25045.0 DRAWING: 25045Land.dwg LAST SAVED BY: COOI

PQP. **AUTOMATIC** -UP RAIN IRRIGATION HEAD (60A) N.T.S. NOTE: ONE RAIN CHECK RAIN SENSOR IS REQUIRED FOR EACH CONTROLLER. DO NOT WIRE CONTROLLERS TOGETHER ON A SINGLE RAIN CHECK RAIN SENSOR. SENSOR DRAIN VALVE (NOT SHOWN ON PLAN-INSTALL IN LOW AREAS AS NEEDED) AND PULL WIRE BY
R. 24 VAC WIRE TO B
OUTPACTOR. WIRE CONNECTION BIA -SWNG PIPE, 12-INCH LENGTH:
RAIN BIRD MODEL SP-100
-1/2-INCH MALE NPT
×.490-INCH BARB ELBOW:
×.490-INCH BARB ELBOW:
-PVC SCH 40 TEE OR ELL
-PVC LATERAL PIPE —PRESSURE COMPENSATING
FULL CIRCLE BUBBLER:
RAIN BIRD 1400

—PLASTIC ADAPTER: RAIN BII
MODEL PA-80

—PLANT MATERIAL 1/2-INCH MALE NPT x .490 BARB ELBOW: RAIN BIRD MODEL SBE-050 OP-UP SPRAY SPRINKLER: RAIN BIRD 1804 NISH GRADE/TOP OF MULCH 4" CONCRETE SLAB

(BOTTOM OF DEVICE MUST BE 12"
MINIMUM ABOVE GROUND LEVEL.) POP-UP BUBBLER HEAD REDUCED BACKFLOW REDUCED PRESSURE ZONE BACKFLOW PREVENTION DEVICE PRESSUR PREVENT ALL BUBBLERS SHALL BE PLACED AS SHOWN ON PLAN WITH 2 OUTLETS LOCATED ON OPPOSITE EDGES OF THE ROOT BALL, ELECTRIC VALVE PVC COUPLER W/CT REDUCER JER 188 . PROTECTIVE FIBERGLASS ENCLOSURE SHALL BE LOCKABLE WITH FLIP-TOP ACCESS AND PAD-MOUNTED.

2. PROTECTIVE ENCLOSURES SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. CHECK WITH LOCAL CODES FOR CLEARANCE REQUIREMENTS. : AND BOX 1/4" DISTRIBUT MORE THAN ONE SHRUB MAY BE WATERED FROM A SINGLE MULT-PORT EMITTER.

MAXIMUM LENGTH OF DISTRIBUTION TUBING SHALL BE 5 FEET.

IF MORE THAN ONE DISTRIBUTION TUBE USED PER SHRUB, EQUALLY SPACE AROUND PLANT ROOT BALL. SHRUB
MULTI-OUTLET EMITTER
780 DRIP VALVE ASSEMBLY MANUAL DRAIN VALVE ROOTBALL ON THE UPHILL - MULTI-OUTLET EMITTER IN EMITTER BOX - PLANT ROOTBALL - LATERAL PIPE, CLASS 200 PVC. PRESSURE COMPENSATING EMITTER, THREADED. SEE SCHEDULE FOR GPH. -3/4" CRUSHED GRAVEL SUMP TO DRIP ZONE 63A PEB VALVE
"Y" FILTER
5-200) CONTROLLER 1. ALL LATERAL LINES SHALL BE SDR-13.5 PVC PIPE. ALL MAIN LINES SHALL BE SDR-21 PVC PIPE. 2. SLEEVES BELOW ALL HARDSCAPE ELEMENTS SHALL BE SCH. 40 PVC AND SHALL BE TWICE THE DIA WITHIN.
3. ALL LATERAL LINES SHALL BE BURIED NO LESS THAN 18" DEEP. ALL MAIN LINES AND ELECTRICAL RUN WIRING BENEATH AND BESIDE MAINLINE. TAPE AND BUNDLE AT 10-FOOT INTERVALS. MAINLINE, LATERAL, AND WRING IN THE SAME TRENCH 100 AND VALVES IRRIGATION PIPE
AND WIRE TRENCHING
[64] ALL SOLVENT WELD PLASTIC PIPING TO BE SNAKED IN TRENCH AS SHOWN. O 24" MIN. 61B PLAN VIEW 18" MIN. TIE A 24-INC CHANGES OF GREATER. L 24" MIN.

GENERAL IRRIGATION NOTES

IRRIGATION CONTRACTOR SHALL TEST EXISTING STATIC PRESSURE ON SITE PRIOR TO CONSTRUCTION. SHOULD EXISTING SITE PRESSURE BE BELOW 66# STATIC, CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.

ALL LATERAL LINES SHALL BE EQUIPPED WITH AUTOMATIC DRAIN VALVES AT LOW POINTS PER DETAIL 62D.

CONTRACTOR SHALL COORDINATE CONTROLLER LOCATION WITH GENERAL CONTRACTOR. 110 VOLELECTRICAL SERVICE FOR IRRIGATION CONTROLLER IS TO BE INSTALLED IN THE UTILITY ROOM EGENERAL CONTRACTOR.

IRRIGATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING MANUAL DRAIN VALVES AT LOWEST POSSIBLE ELEVATION ON IRRIGATION MAIN SO AS TO PROVIDE POSITIVE DRAINAGE OF IRRIGATION MAIN DURING WINTER MONTHS, OR PROVIDE BLOWOUT ASSEMBLY, INSTALLATION SHALL BE PER DETAIL 62C.

LOCATION FOR THIS UTILITY AS SHOWN IS FOR DRAWING PURPOSES ONLY. CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN FIELD PRIOR TO THE CONSTRUCTION OF THE PROPOSED UTILI-LINE TO BE CONNECTED. CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IF THE DESI AS SHOWN IS NOT ACHIEVABLE.

IRRIGATION CONTRACTOR SHALL COORDINATE CONSTRUCTION OF IRRIGATION SYSTEM WITH GENERAL CONTRACTOR AND LANDSCAPE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.

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ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED ON PLANS, SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS AND PER CITY/STATE CODE.

IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF FENCES, RETAINING WALLS, PLAY STRUCTURES AND UTILITIES THE IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED BY HIS WORK. HE SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS THROUGH WALLS, UNDER ROADWAYS AND PAVING AND TIMING, ETC.

ALL LATERAL LINE PIPING UNDER PAVING SHALL BE PVC SCH. 40 PIPE AND SHALL BE INSTALLED PRIOR TO ANY HARDSCAPE MATERIAL. IRRIGATION CONTRACTOR TO PROVIDE 4" DIPPORTED PVC SLEEVES BETWEEN 12" AND 15" BELOW GRADE AT ALL DRIVE ENTRANCES AND SIDEWALKS

VALVES BOXES SHALL BE INSTALLED FLUSH WITH GRADE, SUPPORTED BY BRICKS IF NEEDED, WITH $3^{\prime\prime}$ OF CLEAN PEA GRAVEL LOCATED BELOW THE VALVE.

UNSLEEVED PIPES MAY BE SHOWN UNDER PAVEMENT FOR GRAPHIC CLARITY ONLY. INSTALL THESE PIPES IN ADJACENT LANDSCAPE AREAS WHERE POSSIBLE.

ALL MAIN LINE PIPING, NON-PRESSURE PIPING AND CONTROL WIRE SLEEVING SHALL BE INSTALLED IN SEPARATE SLEEVES. MAINLINE SLEEVE SIZE SHALL BE A MINIMUM OF TWICE (2X THE DIAMETER OF THE PIPE TO BE SLEEVED. CONTROL WIRE SLEEVES SHALL BE OF SUFFICIEN SIZE FOR THE REQUIRED NUMBER OF WIRES.

NEW IRRIGATION SYSTEMS SHALL NOT UTILIZE ABOVE—GROUND SPRAY EMISSION DEVICES IN LANDSCAPES THAT ARE LESS THAN 48" WIDE, PER STATE REQUIREMENTS. WIDTH REQUIREMENTS MAY VARY DEPENDING ON MUNICIPALITY REQUIREMENTS.

IRRIGATION CONTRACTOR SHALL COORDINATE IRRIGATION INSTALLATION WITH PLANTING PLAN AND SITE CONDITIONS TO PROVIDE COMPLETE COVERAGE WITH NO OVERSPRAY. THE IRRIGATIO CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO ENSURE 100% COVERAGE IS PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

ALL TRENCHES AND HOLES CREATED DURING INSTALLATION OF AN IRRIGATION SYSTEM MUST BEACKFILLED AND COMPACTED TO THE ORIGINAL GRADE.

MINIMUM COVER FROM TOP OF PIPING TO FINISHED GRADE SHALL BE AS DESCRIBED IN THE ANDSCAPE IRRIGATION SECTION OF THE SITEWORK SPECIFICATIONS. IF SPECIFICATIONS AND/MANUFACTURER HAS NOT PUBLISHED SPECIFICATIONS FOR DEPTH COVERAGE OF PIPING, THE PIPING MUST BE INSTALLED TO PROVIDE MINIMUM DEPTH COVERAGE PER DETAIL 64B.

DO NOT INSTALL IRRIGATION AT PYLON/MONUMENT SIGN LOCATION UNTIL SIGN HAS BEEN INSTALLED.

ALL BELOW GRADE LOW VOLTAGE WIRING CONNECTIONS SHALL BE INSTALLED PER DETAIL 61A.

ALL R.C.V. CONTROLLER WIRES ARE TO BE IN CONDUIT WHILE UNDER PAVING. CONDUIT TO BE INSTALLED BY GENERAL CONTRACTOR. ROUTING OF R.C.V. WIRES TO CONTROL VALVES SHALL BY THE IRRIGATION CONTRACTOR.

THE MAXIMUM SPACING BETWEEN EMISSION DEVICES MUST NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS.

THE LANDSCAPE TUBING IN PLANTING BEDS IS SHOWN DIAGRAMMATIC. CONTRACTOR CAN ROUTE PIPING IN A FREEFORM MANNER (AVOIDING OBJECTS SUCH AS LIGHT POLES, TRANSFORMERS PADS, EQUIPMENT VAULTS, SUBSURFACE ROCK TOO LARGE TO REMOVE, ETC...) AS LONG AS ALL PLANT MATERIAL RECEIVES THE PROPER NUMBER OF EMITTERS PER SCHEDUL AND THE VINYL DISTRIBUTION TUBING DOES NOT EXCEED THE MAXIMUM DESIGN LENGTHS PER MANUFACTURER'S RECOMMENDATIONS.

THE IRRIGATION PLANS ARE SCHEMATIC AND MAY BE EXAGGERATED. CONTRACTOR SHALL INSTALL PER MANUFACTURES SPECIFICATIONS AND PER CITY/STATE CODE.

CONTRACTOR SHALL PROTECT EXISTING TREES FROM DAMAGE DURING INSTALLATION PROCEDURES.

Engineering Associates, Inc.

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