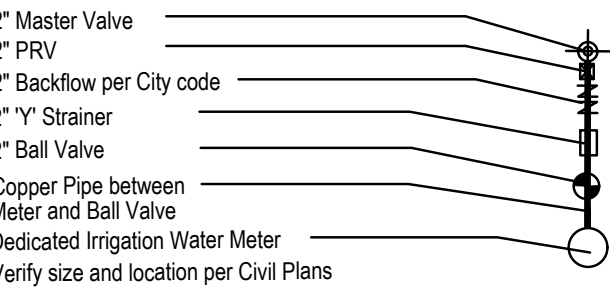


- TCEQ 2009 NOTES**
- All irrigation equipment to be located no closer than 4" to any pavement and / or structure.
 - Electrical splices at each valve and controller only.
 - Irrigation in Texas is regulated by the Texas Commission on Environmental Quality (TCEQ) MC-178 / P.O. BOX 13087 Austin, Texas 78711-3087 www.tceq.state.tx.us

BUBBLER PIPING CHART

1-5	BUBBLERS - 1/2" PIPE
6-10	BUBBLERS - 3/4" PIPE
11-20	BUBBLERS - 1" PIPE
21-30	BUBBLERS - 1 1/4" PIPE
31-40	BUBBLERS - 1 1/2" PIPE

- IRRIGATION LEGEND**
- Hunter PRS30-04 4" Pop-up Spray Head with Plastic Hunter Pro Adjustable Nozzle
 - Hunter PRS30-12 12" Pop-up Spray Head with Plastic Hunter Pro Adjustable Nozzle
 - Hunter PGP Ultra-04 Rotors
 - Hunter Multi-Stream Bubbler Nozzle on Hunter PRS30-06 Pop-up Spray Head
 - Spray, Rotor & Bubbler Zones-Hunter PGV Control Valves (See Plan for Size)
 - Drip Zones-Hunter ICZ Drip Zone Control Kits (See Plan for Size)
 - Hunter I-Core series Controller with Hunter Solar Sync Sensor
 - WATER METER, SIZE AS INDICATED D.C.A. SIZE AS INDICATED to Include Wye Strainer, Isolation Valve, Master Valve, and Pressure Regulator
 - PVC CLASS 200 LATERAL LINE
 - PVC CLASS 200 MAINLINE
 - PVC SCHEDULE 40 SLEEVING
 - VALVE SIZE GPM
 - HUNTER HDL-09-12-100-PC Drip Line and Fittings (12" LATERAL SPACING, 12" EMITTER SPACING) PVC LATERAL PIPING SIZED AS REQUIRED INSTALL ALL EQUIPMENT ACCORDING TO MANUFACTURERS SPECIFICATIONS



- SLEEVING NOTES**
- Contractor shall lay sleeves and conduits at twenty-four (24) inches below finish grade of the top of pavement.
 - Contractor shall extend sleeves one (1) foot beyond edge of all pavement.
 - Contractor shall cap pipe ends using PVC caps.
 - All sleeves shall be Schedule 40 PVC pipe.
 - Contractor shall furnish Owner and Irrigation Contractor with an 'as-built' drawing showing all sleeve locations.

Water Pressure Calculations

Static Pressure (at the water meter)- 65 psi
Design Pressure for Remote Zone- 55.2 psi
Pressure Losses for Remote Zone and Meter Components- 20.5 psi

Water Meter Components- Pressure Losses

Master Valve Pressure- 2 psi
Pressure Regulator- 1.2 psi
Back Flow- .5 psi
Wye Strainer-.75 psi
Ball Valve-.8 psi

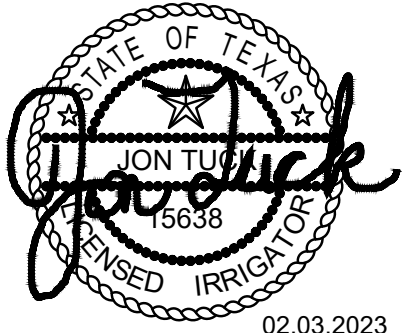
Irrigation Zones Pressure Losses- (most remote zone)

Main Line- 7.1 psi
Valve- 2 psi
Later Line- 1.6 psi
Sprinkler requirements-35 psi

- IRRIGATION NOTES**
- All sprinkler equipment numbers reference the HUNTER equipment catalog unless otherwise indicated.
 - LAWN SPRAY HEADS are SRS-04 installed as per detail shown.
 - SHRUB SPRAY HEADS are SRS-12 installed as per detail shown.
 - ELECTRIC CONTROL VALVES shall be HUNTER PGV-S SERIES installed per detail shown. Size valves as shown on plan. Valves shall be installed in valve boxes large enough to permit manual operation, removal of solenoid and/or valve cover without any earth excavation.
 - QUICK COUPLING VALVES shall be HQ-44-LRC-AW installed per detail shown. Swing joints shall be constructed using 1" Schedule 80 elbows. Contractor shall supply owner with three (3) HK couplers and three (3) #10 swivel hose ends as part of this contract.
 - AUTOMATIC CONTROLLER shall be installed at location shown. Power (120V) shall be located in a junction box within five (5) feet of controller location by other trades.
 - All 24 volt valve wiring is to be UF 14 single conductor. All wire splices are to be permanent and waterproof.
 - SLEEVES shall be installed by General Contractor. Sleeve material shall be Schedule 40. Size as indicated on plan.
 - Ten days prior to start of construction, Landscape or Irrigation Contractor shall verify static water pressure. If static pressure is less than 65 P.S.I. do not work until notified to do so by Owner.
 - All main line and lateral piping to a minimum of 12 inches of cover. All piping under paving shall have a minimum of 18" of cover.
 - The Irrigation Contractor shall coordinate installation of the system with the Landscape Contractor so that all plant material will be watered in accordance with the intent of the plans and specifications.
 - The Irrigation Contractor shall select the proper arc and radius for each nozzle to insure 100% and proper coverage of all lawn areas and plant material. All nozzles in parking lot islands and planting beds shall be low angle to minimize over spray on pavement surfaces. No water will be allowed to spray on building.

- DRIP IRRIGATION NOTES**
- Drip Irrigation Equipment numbers reference Rainbird Equipment Catalog unless otherwise noted.
 - Landscape Contractor shall be required to supply Owner's Construction Manager with all equipment specifications and maintenance guidelines.
 - Landscape Contractor shall be required to follow Manufacturer's Specifications and Installation guidelines for drip system.
 - PRESSURE COMPENSATING EMITTERS shall be: Multioutlet Rain Bug EM6-M101, Multi outlet Shrub Bug EMT6-M101 or approved equal. (1 PER EVERY 6' - 4" POTS)
 - SINGLE OUTLET PRESSURE COMPENSATING EMITTERS shall be: Rain Bug Emitters EM-M05, -M10, -M20 and Shrub Bug Emitters EMT-M10, -M20 or approved equal. (1 PER EACH 1' OR 5 GAL PLANT)
 - DRIP PRESSURE REGULATORS shall be: PSI-HLA-15, PSI-HLA-20, PSI-HMB-20, PSI-HMB-25 or approved equal.
 - Y-FILTERS shall be: RBY-075-200, RBY-100-200 or approved equal.
 - MAIN IRRIGATION TUBING shall be: RBT-150P, RBT-160V or approved equal.
 - EMITTER DISTRIBUTION TUBING shall be: RBT-150P, RBT-160V or approved equal.
 - SUBTERRANEAN EMITTER BOX shall be: SEB-6 or approved equal.
 - Drip system piping only occurs within shrub / groundcover beds and rock mulch areas. Piping shall be a maximum 4" depth and a minimum 2" depth.
 - Contractor shall verify that all drip system valves and spray system valves are sectioned separately on controller.

LANDSCAPE ARCHITECT
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C-STORE
CLARK ROAD
DALLAS, TEXAS

ISSUE:
CITY COMMENTS 02.03.2023

DATE:
02.03.2023

SHEET NAME:
IRRIGATION PLAN

SHEET NUMBER:

L.4

