

1. LATERAL PIPING IS DIAGRAMMATIC AND IS INCLUDED TO SHOW EXACT HEADS AND AREA OF ZONE NUMBER  
2. ALL ITEMS SHOWN OUTSIDE THE PROPERTY LINE/LIMITS OR IN CONCRETE/FLATWORK ARE FOR CLARIFICATION ONLY  
3. IRRIGATION DESIGN MAY HAVE SOME COMPONENT LOCATIONS EXAGGERATED FOR SAKE OF CLARIFICATION ON DRAWING

# Tree Bubbler Plan

1"=20'-0"

IRRIGATION IN THE STATE OF TEXAS IS REGULATED BY THE  
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
P.O. BOX 13087 AUSTIN, TEXAS 78711-3087  
WWW.TCEQ.STATE.TX.US

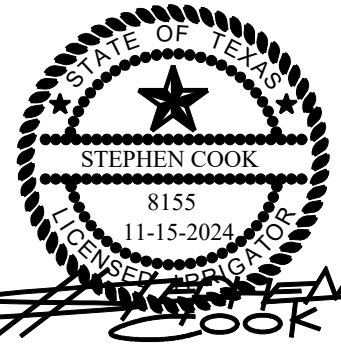
CITY SUBMITTAL

## THE REVIVAL

19186 FM 2252 Garden Ridge, Texas 78266

Irrigation Designs by  
Stephen Cook

stephencook@irrigationplans.com  
903-279-1018



saison studio

(225) 354-9509

DRAWN BY: SIC

REVIEWED BY: SIC

DATE: 11-15-2024

SCALE: 1"=20'-0"

IR-1

1. LATERAL PIPING IS DIAGRAMMATIC AND IS INCLUDED TO SHOW EXACT HEADS AND AREA OF ZONE NUMBER  
2. ALL ITEMS SHOWN OUTSIDE THE PROPERTY LINE/LIMITS OR IN CONCRETE/FLATWORK ARE FOR CLARIFICATION ONLY  
3. IRRIGATION DESIGN MAY HAVE SOME COMPONENT LOCATIONS EXAGGERATED FOR SAKE OF CLARIFICATION ON DRAWING

- Tree Bubbler 1 GPM

○

Hunter PGP Rotor

●

Hunter ProSpray PRS30 Sprayhead

---

Hunter HDL Drip

⊙

Hunter ICV Electric Valve

C

Hunter Controller with Rain Sensor
- 1 1/2" Backflow prevention device as per governing authority
- 1 1/2" Y-Strainer
- 1 1/2" Ball Valve
- 1 1/2" Water Meter
- Class 200 Mainline Piping
- Class 200 Lateral Piping



Irrigation Plan  
1"=20'-0"

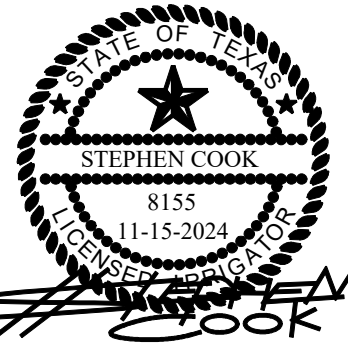
IRRIGATION IN THE STATE OF TEXAS IS REGULATED BY THE  
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
P.O. BOX 13087 AUSTIN, TEXAS 78711-3087  
WWW.TCEQ.STATE.TX.US

CITY SUBMITTAL  
THE REVIVAL

19186 FM 2252 Garden Ridge, Texas 78266

Irrigation Designs by  
Stephen Cook

stephencook@irrigationplans.com  
903-279-1018



saison studio

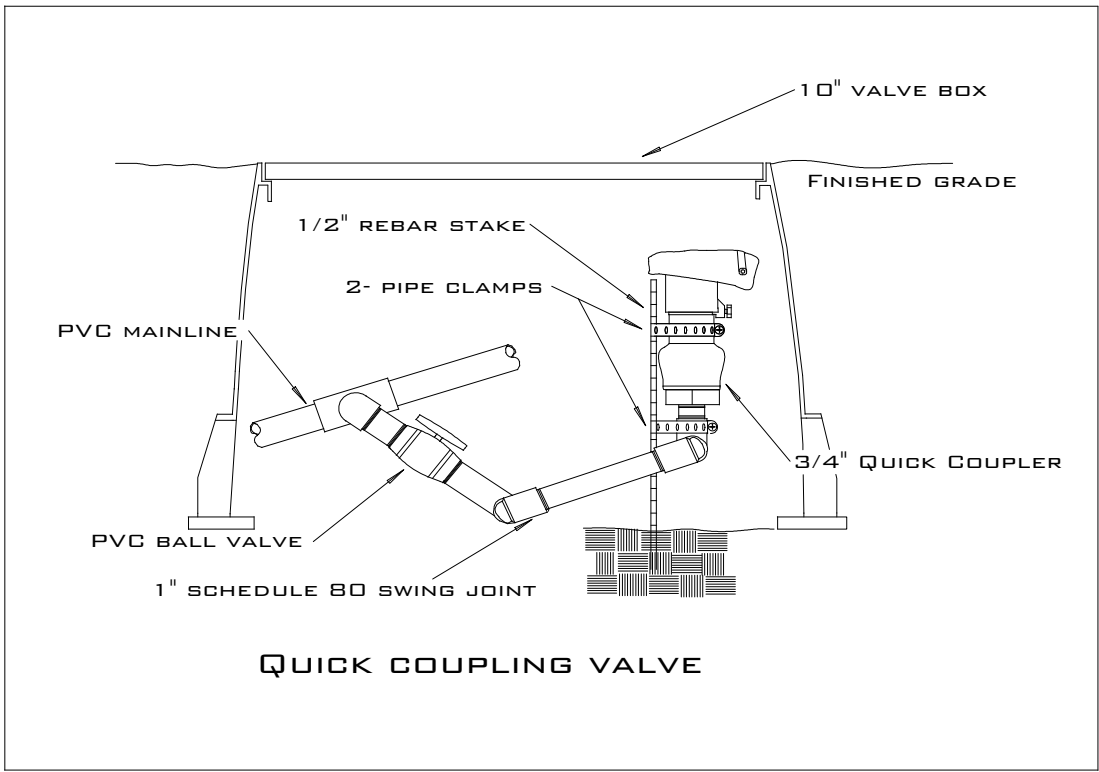
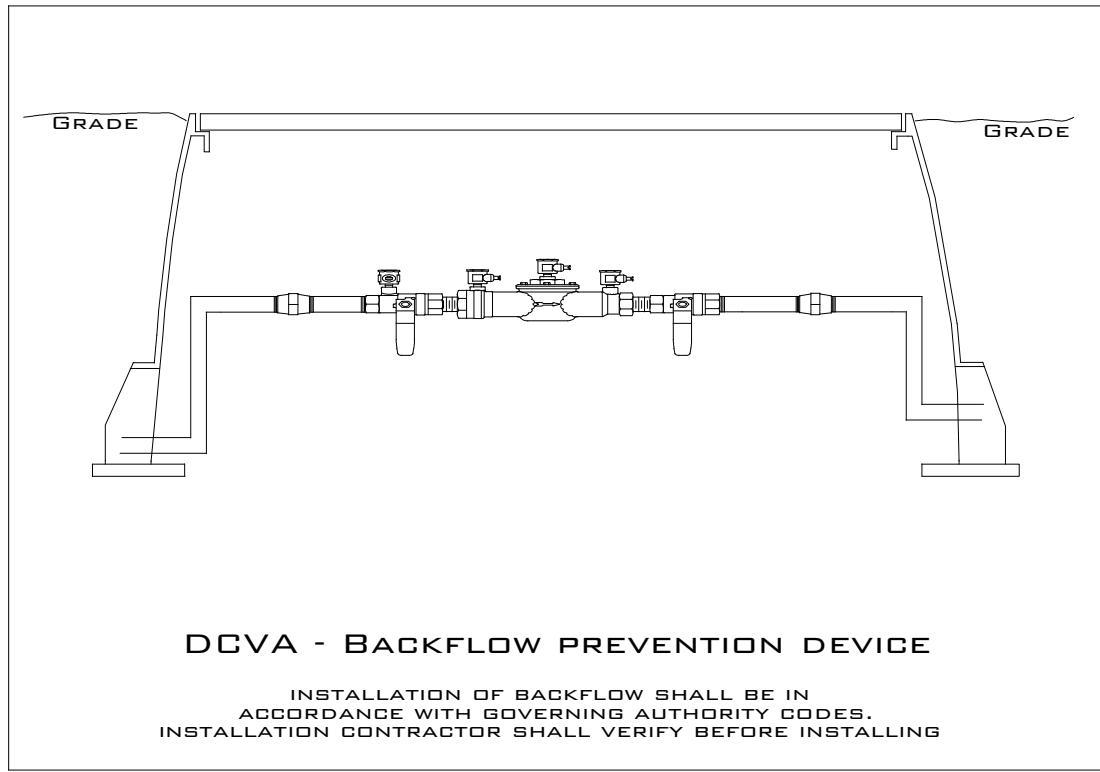
(225) 354-9509

DRAWN BY: SIC  
REVIEWED BY: SIC

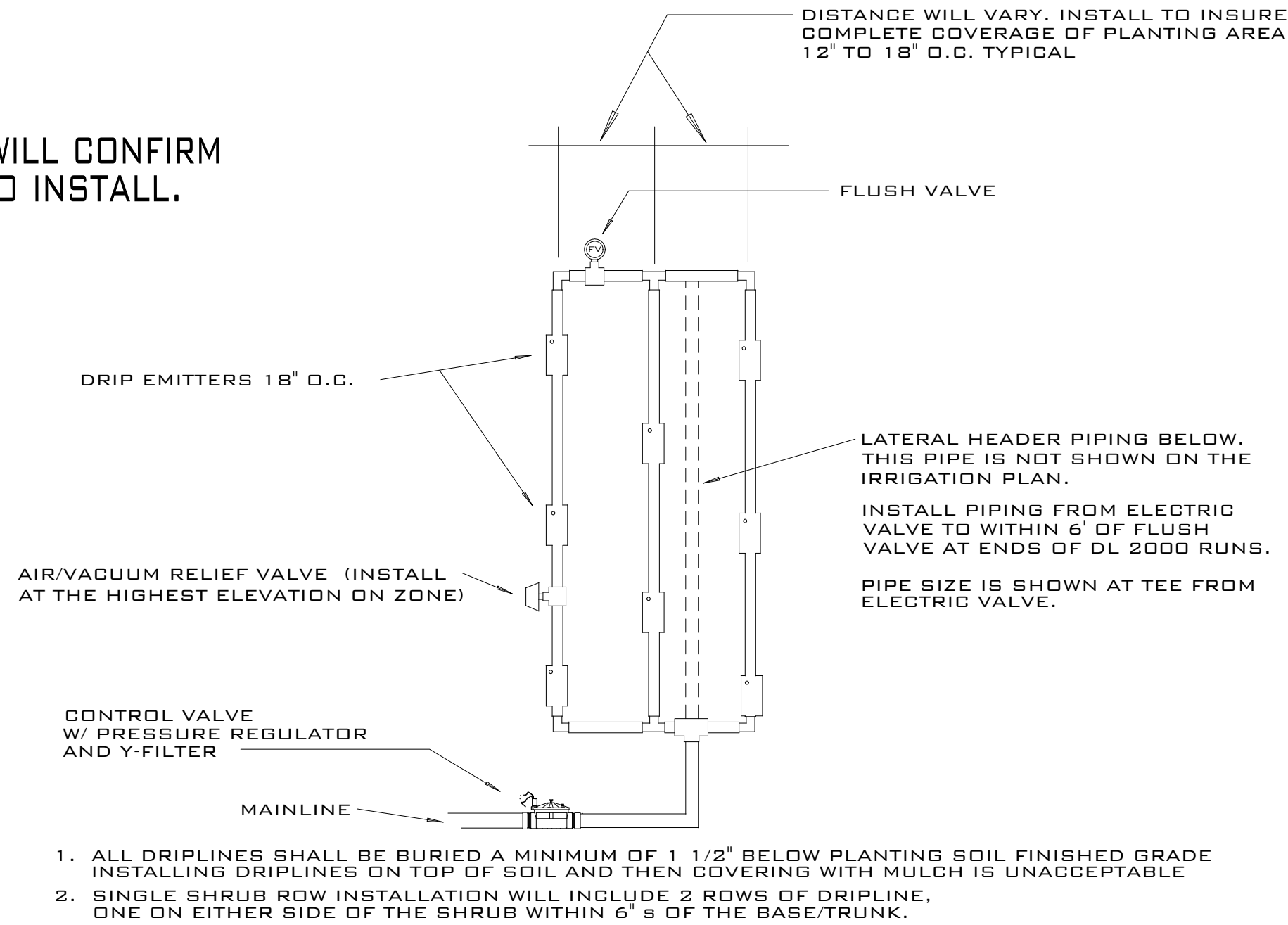
DATE: 11-15-2024  
SCALE: 1"=20'-0"

IR-2

HUNTER, RAINBIRD, WEATHERMATIC & TORO ARE ALL ACCEPTABLE MANUFACTURES



IRRIGATION CONTRACTOR WILL CONFIRM  
STATIC PRESSURE PRIOR TO INSTALL.

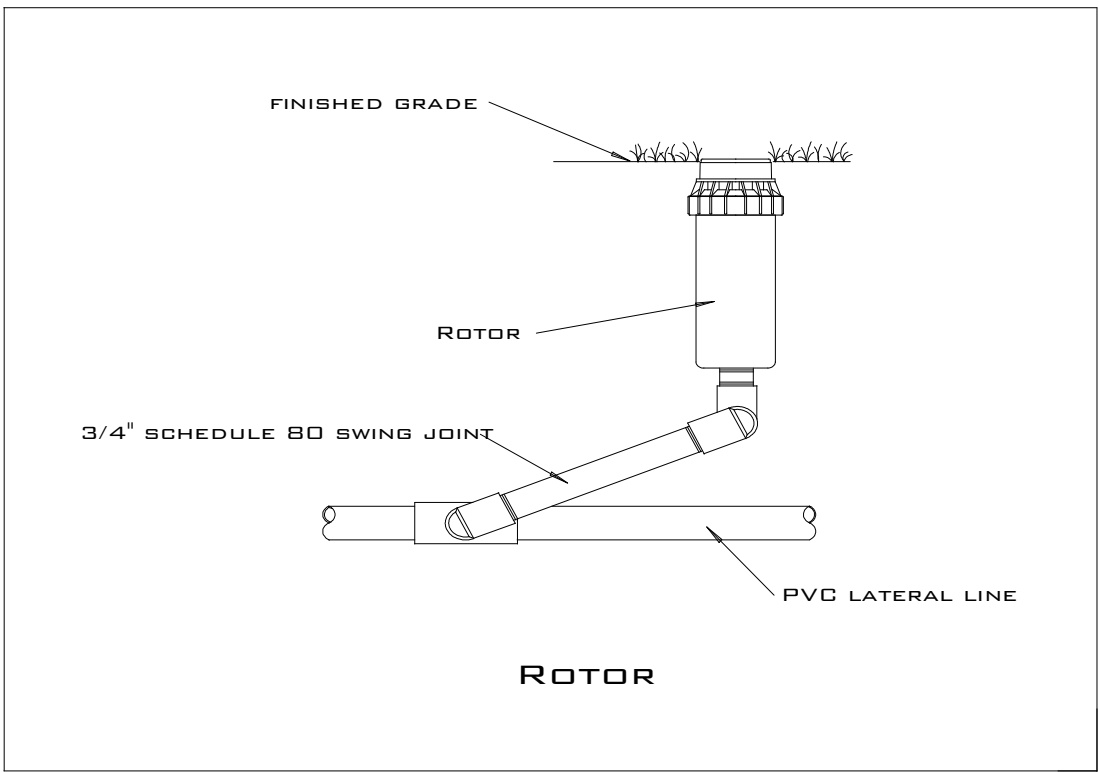
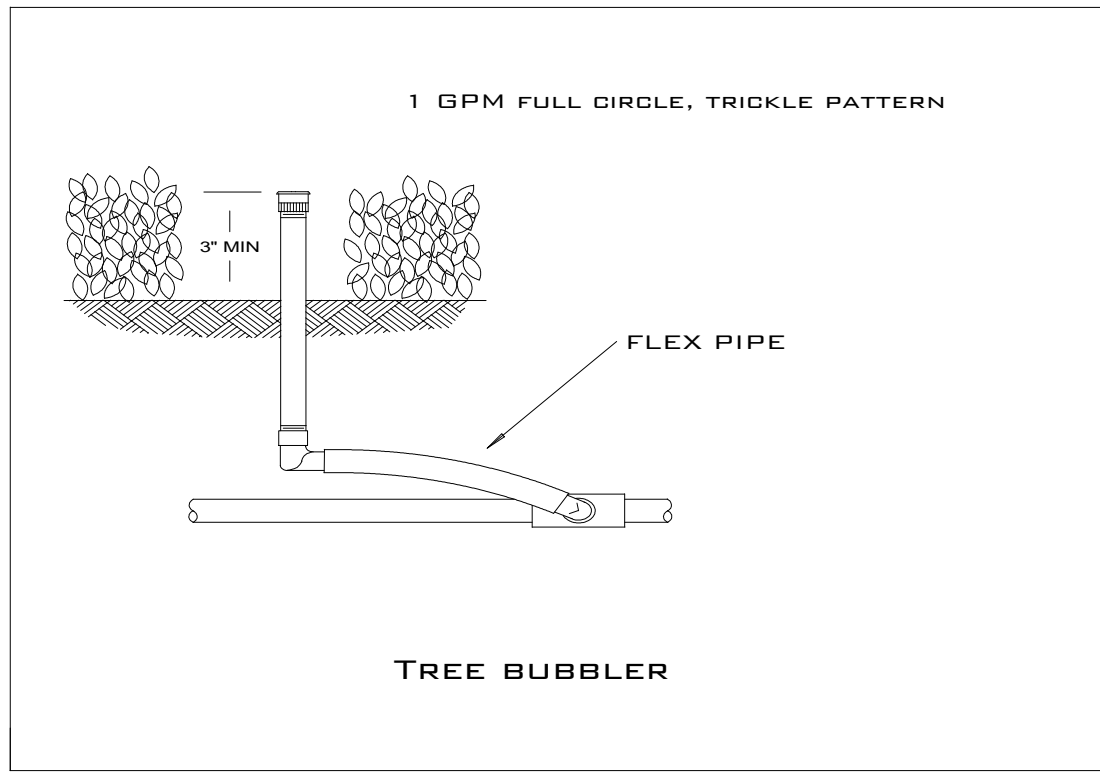
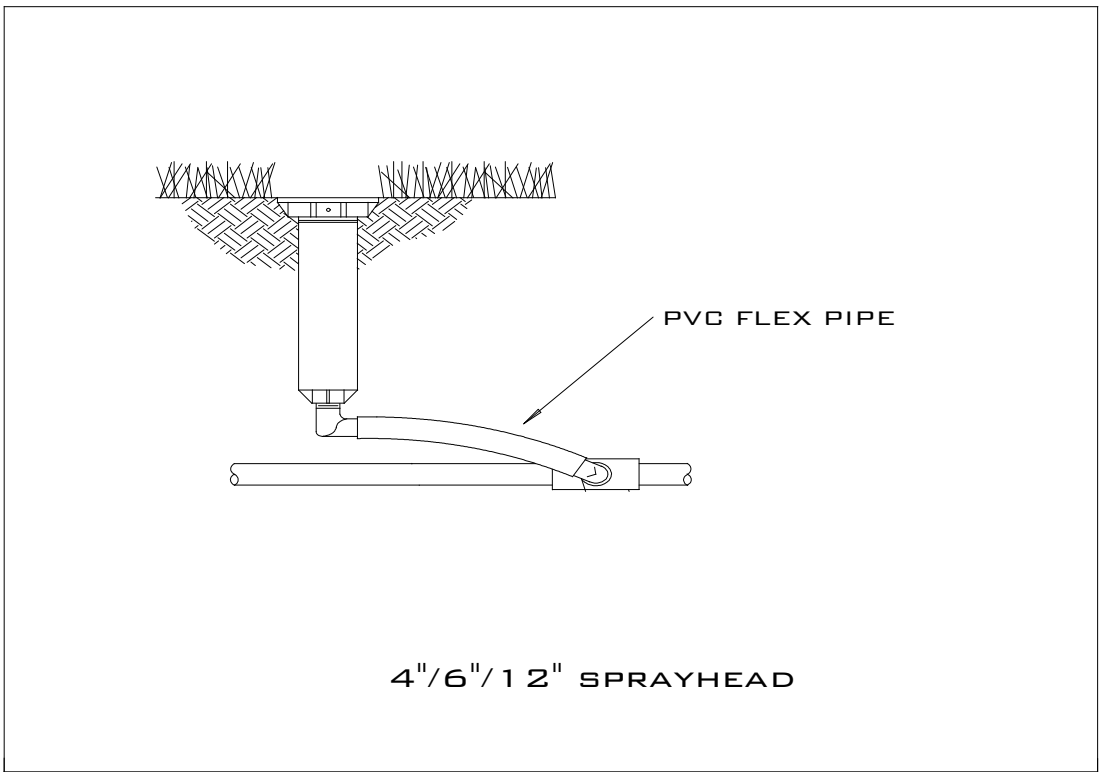
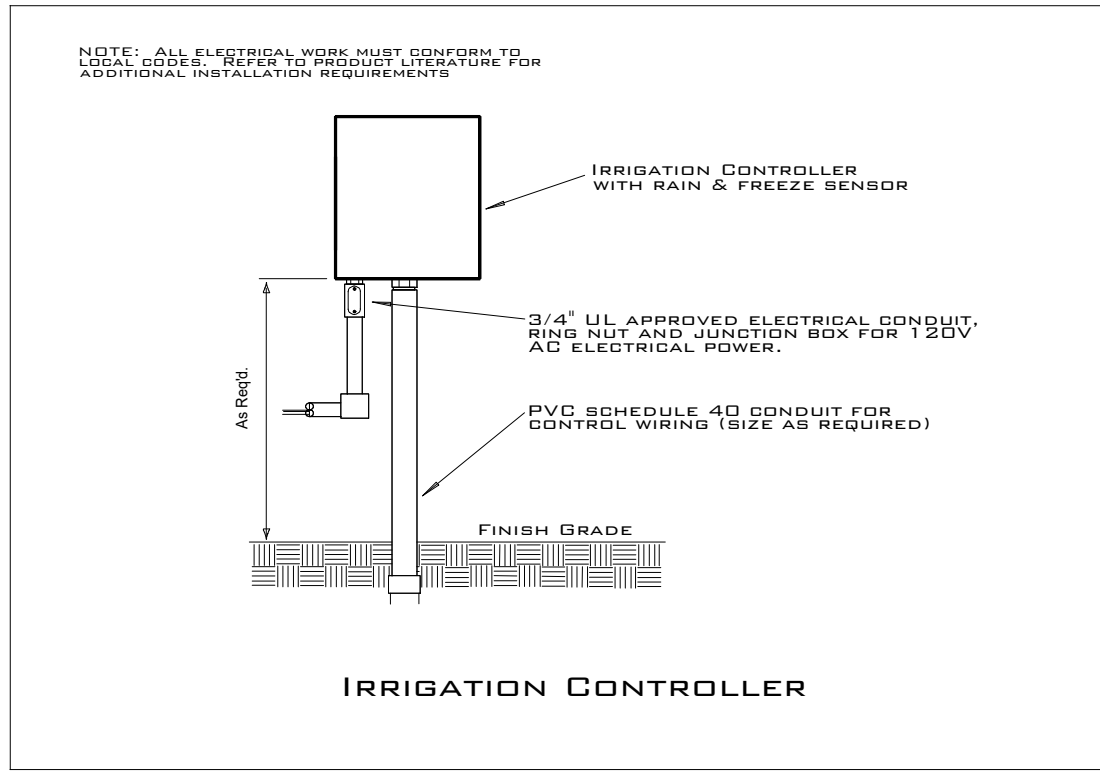
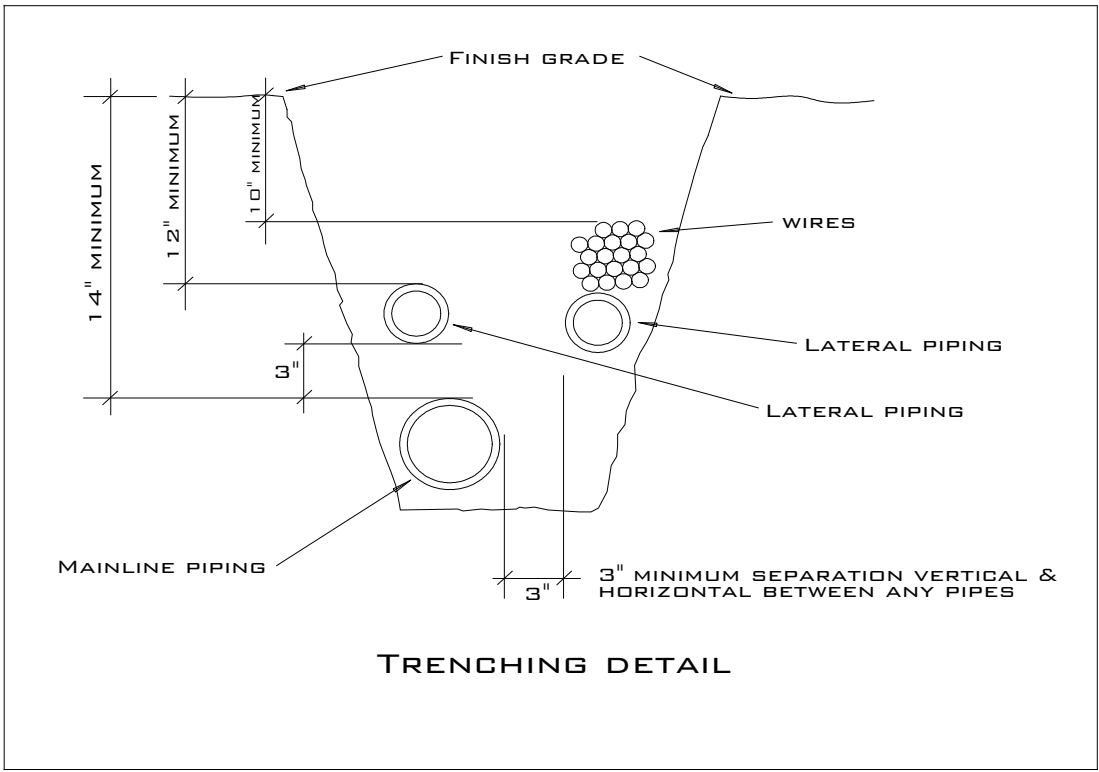
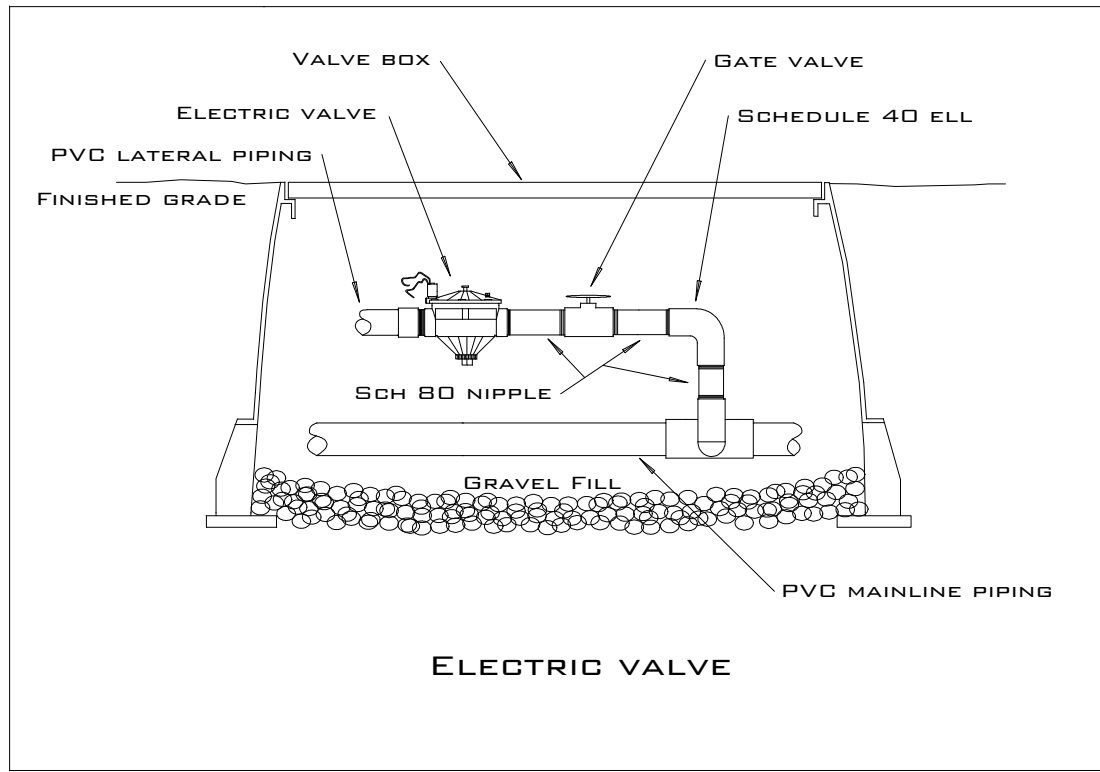


### SHRUB BED DRIP INSTALLATION DETAIL

#### LARGST ZONE

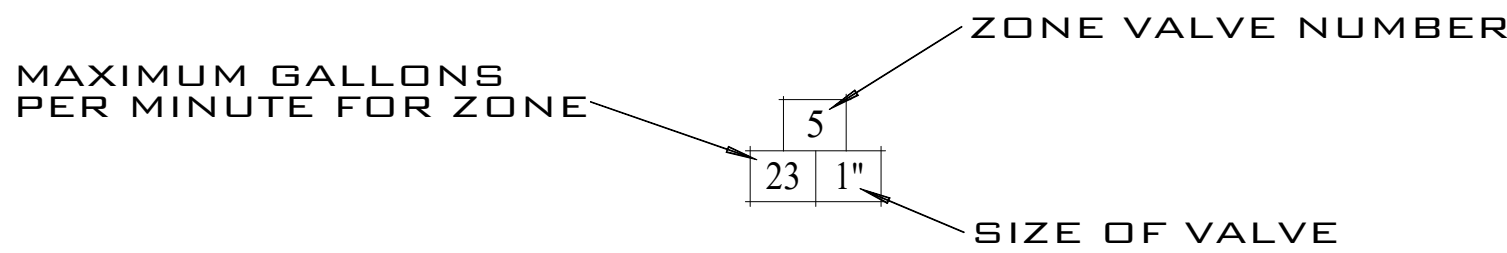
FRICTION LOSS FOR ZONE 15 @ 36 GPM		
STATIC PRESSURE: **65 PSI		
SEE NOTE ABOUT STATIC PRESSURE		
1.5"	COPPER SERVICE	05.0
1.5"	WATER METER	02.7
1.5"	BACKFLOW PREVENTOR	05.0
1.5"	MASTER VALVE	04.0
2"	MAINLINE	50' 01.0
2"	MAINLINE	1,600' 02.0
	MAINLINE	
1.5"	ELECTRIC ZONE VALVE	04.0
	LATERAL PIPING	05.0
	SPRAYHEAD PRESSURE	30.0
	DESIGN PRESSURE	TOTAL 58.7

\*\* PRESURE NOT AVAILABLE AT TIME OF DESIGN.  
65 PSI IS USED AS MEDIAN STATIC DESIGN  
PRESSURE. IRRIGATION CONTRACTOR WILL  
CONFIRM STATIC PRESSURE PRIOR TO INSTALL.



ALL IRRIGATION COMPONENTS SHALL BE INSTALLED IN A NEWLY LANDSCAPED AREA.  
ITEMS SHOWN IN ASPHALT, CONCRETE OR OUTSIDE L.O.C. ARE FOR CLARIFICATION ONLY.

ZONE	RUN TIME TO ACHIEVE 1" OF PRECIPITATION	RUN TIME TO ACHIEVE 1/2" OF PRECIPITATION
SHRUB SPRAY	38 MINUTES	19 MINUTES
LAWN SPRAY	38 MINUTES	19 MINUTES
LAWN ROTOR	99 MINUTES	50 MINUTES
DRIP LINE	37 MINUTES	18.5 MINUTES
TREE BUBBLER	30 MINUTES	15 MINUTES



#### IRRIGATION NOTES

BACKFILL IN TRENCHES SHALL BE FREE OF LARGE ROCKS OVER 1". IF EXISTING SOIL IS DETERMINED UNACCEPTABLE BY THE IRRIGATION INSPECTOR THEN IMPORT BACKFILL MUST BE SUPPLIED.
ALL IRRIGATION COMPONENTS SHALL BE INSTALLED IN A LANDSCAPED AREA.
ITEMS SHOWN IN ASPHALT OR CONCRETE ARE FOR CLARIFICATION ONLY.
ALL SPRINKLER HEADS SHALL HAVE A FLEXIBLE ATTACHMENT. SEE DETAILS.
QUICK COUPLING VALVES MUST HAVE AN ISOLATION VALVE INSTALLED BETWEEN THE QCV & THE MAINLINE.
IRRIGATION SLEEVES TO BE PROVIDED BY THE IRRIGATION CONTRACTOR. ALL SLEEVES SHALL BE SIZED TO ACCOMMODATE MAINLINE, WIRES, & LATERAL PIPING AS NECESSARY.
ALL NEWLY PLANTED TREES SHALL RECEIVE A BUBBLER FOR SUPPLEMENTAL WATERING. BUBBLERS SHALL BE ZONED SEPARATELY. SEE THE LANDSCAPE PLAN FOR THE LOCATION OF TREES AND COORDINATE BUBBLER INSTALLATION WITH THE LANDSCAPE CONTRACTOR.
IRRIGATION CONTROLLER LOCATION SHALL BE COORDINATE WITH OWNER & GENERAL CONTRACTOR.
TXDOT R.O.W. INSTALLATION REQUIRES HEADS TO BE PLACED A MINIMUM OF 3 FEET OFF OF THE CURB.
IF STATIC WATER PRESSURE IS LESS THAN MANDATED THEN IMMEDIATELY NOTIFY IRRIGATION DESIGNER. INADEQUATE PRESSURE NOTIFICATION MUST BE MINIMUM OF 4 WEEKS PRIOR TO ANY IRRIGATION INSTALLATION.
IT IS THE IRRIGATION CONTRACTORS SOLE RESPONSIBILITY TO CONFIRM THE STATIC PRESSURE.
THE IRRIGATION CONTRACTOR SHALL INSTALL IRRIGATION COMPONENTS IN ACCORDANCE WITH T.C.E.Q. AND ANY LOCAL GOVERNING REGULATIONS.
ALL IRRIGATION PIPING OR WIRES THAT CROSS UNDER ASPHALT OR CONCRETE SHALL BE SLEEVED BY THE IRRIGATION CONTRACTOR.
ANY IRRIGATION HEAD INSTALLED AT AN IMPERVIOUS SURFACE SHALL BE INSTALL 4" FROM SUCH SURFACE.
PIPING BETWEEN THE WATER METER AND THE MASTER VALVE SHALL BE SHEDULE 40.
IRRIGATION CONTRACTOR WILL SUPPLY A COMPLETE AS-BUILT DRAWING TO INCLUDE LOCATION OF ALL MAINLINE, VALVES, CONTROLLERS, QUICK COUPLERS, P.O.C. & WIRE PATH. IRRIGATION CONTRACTOR WILL SUPPLY A COMPLETE OF O&M MANUALS.

IRRIGATION CONTRACTOR WILL CONFIRM  
STATIC PRESSURE PRIOR TO INSTALL.

Irrigation Details  
NTS

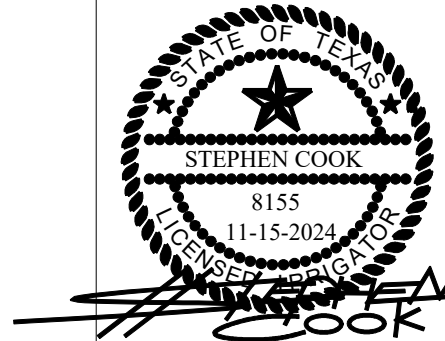
IRRIGATION IN THE STATE OF TEXAS IS REGULATED BY THE  
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
P.O. BOX 13087 AUSTIN, TEXAS 78711-3087  
WWW.TCEQ.STATE.TX.US

CITY SUBMITTAL  
THE REVIVAL

19186 FM 2252 Garden Ridge, Texas 78266

Irrigation Designs by  
Stephen Cook

stephencook@irrigationplans.com  
903-279-1018



saison studio

(225) 354-9509

DRAWN BY: SIC

REVIEWED BY: SIC

DATE: 11-15-2024

SCALE: NTS

IR-3

I, STEPHEN COOK, LICENSED IRRIGATOR #8155, HEREBY CERTIFIES THAT THIS IRRIGATION DESIGN  
CONFORMS TO ALL CURRENT CITY OF GARDEN RIDGE AND THE STATE OF TEXAS DESIGN REGULATIONS

  
STEPHEN COOK LI 8155