

IRRIGATION DISCLAIMER

THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND OTHER EQUIPMENT SHOWN WITHIN PAVED AREAS OR OUT OF PROPERTY BOUNDARIES ARE FOR DESIGN CLARIFICATION ONLY, AND SHALL BE INSTALLED IN PLANTING AREAS WITHIN THE PROPERTY LINES OR LIMITS INDICATED ON PLAN. THE IRRIGATION CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL ABOVE-GRADE IRRIGATION EQUIPMENT WITH THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION, OR IRRIGATION CONTRACTOR MAY BE REQUIRED TO MOVE SUCH ITEMS AT HIS OWN COST.

IRRIGATION CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL FINAL QUANTITIES PER DRAWINGS AND SPECIFICATIONS. ANY QUANTITIES PROVIDED ARE PROVIDED AS A CONVENIENCE TO THE CONTRACTOR ONLY AND SHALL NOT BE

CONTROLLER NOTE

LOCATE CONTROLLER AT LOCATION SHOWN ON PLAN. VERIFY LOCATION IN FIELD WITH OWNER'S REPRESENTATIVE.

120 VAC POWER TO CONTROLLER LOCATION IS NOT WITHIN THE IRRIGATION CONTRACTOR'S SCOPE OF WORK, AND SHALL BE PROVIDED BY OTHERS. HOOK-UP OF CONTROLLER TO 120 VAC SHALL BE PERFORMED BY THE IRRIGATION CONTRACTOR. IRRIGATION CONTRACTOR SHALL COORDINATE LOCATION OF WIRE SLEEVE PENETRATIONS THROUGH BUILDING WITH OWNER AND GENERAL CONTRACTOR. STATION RUN ORDER SHALL MATCH PLANS.

SLEEVING / WIRING NOTES:

IN ADDITION TO PROVIDING SLEEVES FOR ALL PIPING UNDER ROADWAYS AND WALKWAYS, THE IRRIGATION CONTRACTOR SHALL PROVIDE AND INSTALL SCH. 40 PVC SLEEVES FOR ALL CONTROLLER WIRES OCCURRING UNDER ALL ROADWAYS AND WALKWAYS. SLEEVES FOR CONTROLLER WIRES SHALL BE 2" DIA. AND CONTAIN NO MORE THAN 25 WIRES.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	<u>PS</u>
8 08HE-VAN 12 12HE-VAN 10 10HE-VAN 15 15HE-VAN	RAIN BIRD 1806-U ADJ TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET.	30
-0- 101 -0- XX 1401 1402 1404 1408	RAIN BIRD 1806-1400 FLOOD FLOOD BUBBLER 6.0" POPUP	30
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PS
ARC (25)	RAIN BIRD 5006-R-SS-PC,FC-MPR TURF ROTOR, 6.0" POP-UP, STAINLESS STEEL RISER, MATCHED PRECIPITATION ROTOR (MPR NOZZLE). ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE. PRESSURE REGULATING.	25
ARC 30	RAIN BIRD 5006-R-SS-PC,FC-MPR TURF ROTOR, 6.0" POP-UP, STAINLESS STEEL RISER, MATCHED PRECIPITATION ROTOR (MPR NOZZLE). ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE. PRESSURE REGULATING.	25
ARC 35	RAIN BIRD 5006-R-SS-PC,FC-MPR TURF ROTOR, 6.0" POP-UP, STAINLESS STEEL RISER, MATCHED PRECIPITATION ROTOR (MPR NOZZLE). ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE. PRESSURE REGULATING.	25
SVMROI	MANUEACTURER/MODEL/DESCRIPTION	

<u>SYMBOL</u> MANUFACTURER/MODEL/DESCRIPTION

RAIN BIRD XCZ-100-PRB-COM WIDE FLOW DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1" BALL VALVE WITH 1" PESB VALVE AND 1" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. 0.3GPM TO 20GPM.

RAIN BIRD MDCFCAP DRIPLINE FLUSH VALVE CAP IN COMPRESSION FITTING COUPLER.

RAIN BIRD ARV050 1/2" AIR RELIEF VALVE, MADE OF QUALITY RUST-PROOF MATERIALS, WITH A 6.0" DRIP VALVE BOX (SEB 7XB EMITTER BOX). USE WITH INSTALLATION BELOW SOIL

RAIN BIRD OPERIND DRIP SYSTEM OPERATION INDICATOR, STEM RISES 6" FOR CLEAR VISIBILITY WHEN DRIP SYSTEM IS CHARGED TO A MINIMUM OF 20PSI. INCLUDES 16" OF 1/4" DISTRIBUTION TUBING WITH CONNECTION FITTING

THE VALVE WILL ALLOW AIR TO ESCAPE THE PIPELINE,

THUS PREVENTING WATER HAMMER OR BLOCKAGE.

AREA TO RECEIVE DRIPLINE RAIN BIRD XFS-09-18 XFS SUB-SURFACE PRESSURE COMPENSATING DRIPLINE W/COPPER SHIELD TECHNOLOGY. 0.9 GPH EMITTERS AT 18" O.C. LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV

<u>SYMBOL</u> MANUFACTURER/MODEL/DESCRIPTION

PRE-INSTALLED.

RAIN BIRD PEB 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.

RESISTANT. SPECIFY XF INSERT FITTINGS.

NIBCO BALL VALVE BRASS, TWO-PIECE, FULL PORT, NPT X NPT, T-FP-600A

ENCLOSURE, POWDER-COATED BLACK.

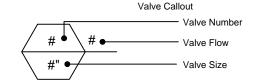
FEBCO 765 1" PRESSURE VACUUM BREAKER, BRASS WITH BALL VALVE SOV. INSTALL 12" (305MM) ABOVE HIGHEST DOWNSTREAM OUTLET AND THE HIGHEST POINT IN THE DOWNSTREAM PIPING. WITH GUARDSHACK (OR EQUAL)

RAIN BIRD ESP-12LX BASIC 12 STATION COMMERCIAL CONTROLLER WITH LXMM METAL WALL-MOUNT CASE.

RAIN BIRD WR2-RFC WIRELESS RAIN AND FREEZE SENSOR COMBO, INCLUDES 1 RECEIVER AND 1 RAIN/FREEZE SENSOR TRANSMITTER.

IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 PVC CLASS 200 IRRIGATION PIPE. ONLY LATERAL TRANSITION PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE.

--- --- IRRIGATION MAINLINE: PVC SCHEDULE 40



VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	<u>GPM</u>	PSI @ POC	PRECIP
1	RAIN BIRD PEB	1"	TURF SPRAY	7.29	37.78	1.18 in/h
2	RAIN BIRD PEB	1"	TURF ROTOR	17.29	34.96	0.72 in/h
3	RAIN BIRD XCZ-100-PRB-COM	1"	BUBBLER	7.50	40.57	1.06 in/h
4	RAIN BIRD XCZ-100-PRB-COM	1"	AREA FOR DRIPLINE	8.30	43.16	0.64 in/h
5	RAIN BIRD PEB	1"	TURF ROTOR	17.58	37.12	0.74 in/h
6	RAIN BIRD PEB	1"	TURF ROTOR	10.90	37.01	0.62 in/h

CRITICAL ANALYSIS

37.50 gpm

2019-01-31 14:04

P.O.C. NUMBER: 01 Water Source Information:

FLOW AVAILABLE Water Meter Size: Flow Available:

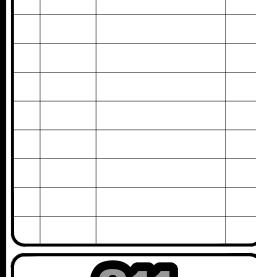
PRESSURE AVAILABLE Static Pressure at POC: 65.00 psi Elevation Change: 5.00 ft 1 1/2" Service Line Size: Length of Service Line: 61.00 psi Pressure Available:

DESIGN ANALYSIS Maximum Station Flow: 17.58 gpm 37.50 gpm 19.92 gpm Flow Available at POC Residual Flow Available:

Critical Station: Design Pressure: 30.00 psi 2.06 psi Friction Loss: Fittings Loss: 0.21 psi Elevation Loss: 0.00 psi Loss through Valve: 6.18 psi Pressure Req. at Critical Station: 38.44 psi Loss for Fittings: 0.07 psi Loss for Main Line: 0.66 psi Loss for POC to Valve Elevation: 0.00 psi Loss for Backflow: 3.46 psi Loss for Water Meter: 0.53 psi Critical Station Pressure at POC: 43.16 psi 61.<u>00 psi</u> Pressure Available:

Residual Pressure Available:

REVISIONS REV DATE COMMENT





NOT APPROVED FOR CONSTRUCTION

It's fast. It's free. It's the law.

DRAWN BY: CHECKED BY: SCALE:

PROP. SITE PLAN **DOCUMENTS**

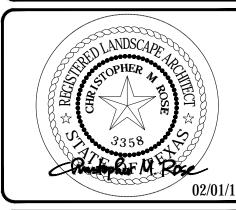
BRAKES PLUS

LOCATION OF SITE SW CORNER OF S. GOLIAD ST AND YELLOW JACKET LN LOTS 1 & 2, BLOCK A, BILLY PEOPLES ADDITION NO. 1 ROCKWALL, TX 75087

ROCKWALL COUNTY



6017 MAIN STREET FRISCO, TX 75034 Phone: (469) 458-7300 TX@BohlerEng.com



SHEET TITLE:

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LANDSCAPE **IRRIGATION**

SHEET NUMBER:

CASE NUMBER:

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON DESIGN DRAWINGS, RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE DESIGNER DOES NOT GUARANTEE THAT LOCATIONS SHOWN ARE EXACT. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES. AS SUCH THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND UNCOVERING EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED IMPROVEMENTS AND UTILITY CONNECTION POINTS PRIOR TO THE START OF CONSTRUCTION TO ASCERTAIN EXACT MATERIALS, LOCATIONS, ELEVATIONS, ETC. AND THEIR POTENTIAL CONFLICT WITH PROPOSED IMPROVEMENTS. GC SHALL CONSULT WITH CONSTRUCTION MANAGER AND ENGINEER AS APPROPRIATE BEFORE PROCEEDING WITH WORK.