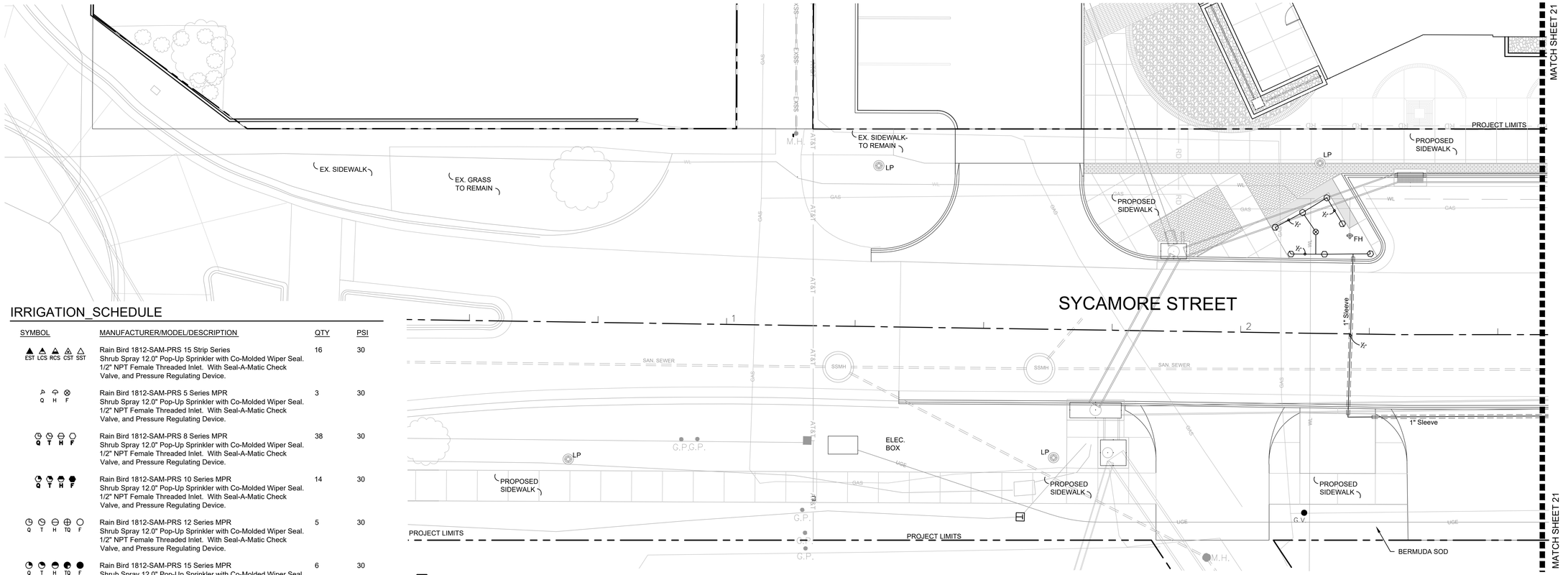


A IRRIGATION PLAN

1" = 10'-0"

0 5' 10' 20'

NORTH

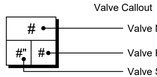
IRRIGATION_SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
EST LCS RCS CST SST	Rain Bird 1812-SAM-PRS 15 Strip Series Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating Device.	16	30
Q H F	Rain Bird 1812-SAM-PRS 5 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating Device.	3	30
Q T H F	Rain Bird 1812-SAM-PRS 8 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating Device.	38	30
Q T H F	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating Device.	14	30
Q T H TQ F	Rain Bird 1812-SAM-PRS 12 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating Device.	5	30
Q T H TQ F	Rain Bird 1812-SAM-PRS 15 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating Device.	6	30
08HE–VAN 12HE–VAN 10HE–VAN 15HE–VAN	Rain Bird 1812-SAM-PRS HE-VAN Series Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating Device.	6	30
1401 1402	Rain Bird RWS-M-B-C-SOCK Mini Root Watering System with 4.0" diameter x 18.0" long with locking grate, semi-rigid mesh tube and Rain Bird 1401 0.25 gpm or 1402 0.5 gpm bubbler as indicated. With Check Valve, and Sand Sock for sandy soil.	11	45

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Area to Receive Dripline Rain Bird XFCV-09-18 XFCV On-Surface Landscape Dripline with a Heavy-Duty 3.5 psi Check Valve. 0.9 GPH emitters at 18" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. Great for elevation change. Specify XF insert fittings.	744.8 l.f.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird PEB-PRS-D 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration. With Pressure Regulator Module.	6
BF	Febco 825Y 1-1/2" Reduced Pressure Backflow Preventer	1
C1	Hunter IC-3000-SS Modular Controller, 30 stations, Outdoor Model, Stainless Steel Cabinet. Commercial Use. With four ICM-600 modules included.	1
R	Rain Bird WR2-RFS (2) Wireless Rain/Freeze Sensor.	1
	Irrigation Lateral Line: PVC Sch-40	2,630 l.f.
	Irrigation Mainline: PVC Sch-40	1,093 l.f.

Valve Callout



VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC	PRECIP
1	Rain Bird PEB-PRS-D	1"	Bubbler	5.50	55.42	67.81	2.66 in/h
2	Rain Bird PEB-PRS-D	1"	Shrub Spray	6.41	34.83	47.25	2.13 in/h
3	Rain Bird PEB-PRS-D	1"	Shrub Spray	13.47	37.97	52.34	2.29 in/h
4	Rain Bird PEB-PRS-D	1"	Shrub Spray	13.10	35.08	49.42	2.26 in/h
5	Rain Bird PEB-PRS-D	1"	Shrub Spray	12.36	35.42	55.10	1.97 in/h
6	Rain Bird PEB-PRS-D	1"	Shrub Spray	12.31	34.77	54.45	2.35 in/h

IRRIGATION NOTES

GENERAL

1. PRIOR TO BEGINNING ANY WORK ON THE SITE, THE CONTRACTOR SHALL CONTACT THE OFFICE OF THE OWNER AND THE LANDSCAPE ARCHITECT FOR SPECIFIC INSTRUCTIONS RELEVANT TO THE SEQUENCING OF WORK.
2. THE IRRIGATION SYSTEM SHALL COMPLY WITH ALL CITY OF WICHITA STANDARD IRRIGATION SPECIFICATIONS. ANY DISCREPANCIES BETWEEN THE PLANS AND STANDARD SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR RESOLUTION.
3. THE IRRIGATION CONTRACTOR SHALL COORDINATE WITH THE CONTRACTOR INSTALLING THE IRRIGATION WELL AND PUMP TO ENSURE APPROPRIATE FLOW AND PRESSURE IS PROVIDED TO ENSURE A FULLY FUNCTIONING IRRIGATION SYSTEM AT ALL TIMES/SEASONS WHILE THE SYSTEM IS RUNNING.
4. A DESIGN PRESSURE (PSIG) AND FLOW (GPM) HAS BEEN USED FOR THE PURPOSE OF THE IRRIGATION SYSTEM LAYOUT. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO VERIFY WATER PRESSURE AND FLOW AT THE METER.
5. THE IRRIGATION PLANS SHALL BE CONSIDERED SCHEMATIC IN NATURE, INDICATING DESIRED WATER COVERAGE. FIELD ADJUSTMENTS MAY BE NECESSARY TO AVOID UNFORESEEN CONFLICTS. THE IRRIGATION CONTRACTOR IS TO INSTALL ALL EQUIPMENT NECESSARY TO PROVIDE A COMPLETE, FUNCTIONAL SYSTEM THAT IS IN COMPLIANCE WITH THE PLANS, SPECIFICATIONS, AND APPLICABLE LOCAL CODES AND REGULATIONS. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE FINAL LAYOUT OF ALL EQUIPMENT AND PIPING. CHANGES TO THE DESIGN MUST BE APPROVED BY THE PROJECT OWNER.
6. PRIOR TO BEGINNING WORK ON THE SITE, THE IRRIGATION CONTRACTOR SHALL CONTACT THE OFFICE OF THE LANDSCAPE ARCHITECT AND OWNER FOR SPECIFIC INSTRUCTIONS RELEVANT TO THE SEQUENCING OF WORK.
7. THE IRRIGATION CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND SERVICE NECESSARY TO INSTALL A FULLY AUTOMATIC IRRIGATION SYSTEM AS SHOWN ON THE PLANS.
8. NO MATERIAL OR EQUIPMENT SUBSTITUTIONS MAY BE MADE WITHOUT THE WRITTEN AUTHORIZATION OF THE PROJECT OWNER. ALTERNATIVE MATERIALS AND EQUIPMENT OF SIMILAR SIZE AND PERFORMANCE MAY BE CONSIDERED IF SPECIFIED MATERIALS AND EQUIPMENT CANNOT BE OBTAINED. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO AMEND THE IRRIGATION PLANS AS DEEMED NECESSARY.
9. QUANTITIES OF MATERIALS AND EQUIPMENT INDICATED ON THE PLAN TAKE PRECEDENCE OVER QUANTITIES SHOWN ON THE IRRIGATION SCHEDULE. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES ON THE IRRIGATION PLANS.
10. REPORT ANY DISCREPANCIES IN THE IRRIGATION PLANS TO THE PROJECT OWNER FOR RESOLUTION PRIOR TO THE PURCHASE OF MATERIALS OR START OF INSTALLATION.
11. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR DAMAGES TO BUILDINGS, WALKS, DRIVES, ELECTRICAL SYSTEMS, AND UNDERGROUND UTILITIES CAUSED BY LEAKS IN THE PIPING SYSTEM INSTALLED, OR HAVING BEEN INSTALLED. REPAIR, AT THE IRRIGATION CONTRACTOR'S EXPENSE, ALL DAMAGES SO CAUSED. REPAIRS SHALL BE DONE AS DIRECTED BY THE PROJECT OWNER.
12. SUBMIT ALL PRODUCT INFORMATION AND SHOP DRAWINGS PER THE REQUIREMENTS SPECIFIED IN THE DRAWINGS AND SPECIFICATIONS FOR REVIEW AND APPROVAL.
13. THE IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER WITH FINAL AS-BUILT DRAWINGS OF THE INSTALLED IRRIGATION SYSTEM INCLUDING WIRING DIAGRAMS. IRRIGATION CONTRACTOR SHALL ALSO PROVIDE A LAMINATED ZONE CHART TO THE OWNER AT THE CONCLUSION OF THE PROJECT.
14. THE IRRIGATION CONTRACTOR SHALL USE EXTREME CAUTION WHEN INSTALLING IRRIGATION EQUIPMENT AND PIPING WITHIN OR ADJACENT TO UTILITY EASEMENTS AND UTILITY LINES. ADJUST IRRIGATION SYSTEM DESIGN AS NECESSARY TO AVOID CONFLICTS WITH ANY EXISTING, OR PROPOSED, UTILITIES.
15. THE IRRIGATION CONTRACTOR SHALL INSTALL THE IRRIGATION MAINLINE 24" BELOW GRADE. INSTALL LATERAL LINES A MINIMUM OF 18" BELOW GRADE. ALL LINES SHALL BE SIZED TO ENSURE THAT PIPE VELOCITY DOES NOT EXCEED 5 FEET/SECOND. ADJUST PIPE SIZES TO MAINTAIN OPTIMAL OPERATING PRESSURE OF SPRINKLER HEADS.
16. THE IRRIGATION CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR ON THE INSTALLATION OF PVC SCH-40 IRRIGATION SLEEVES FOR PIPING AND WIRING. SLEEVES SHALL BE A MINIMUM TWICE THE SIZE OF IRRIGATION PIPING. COORDINATE SLEEVE INSTALLATION INTO/UNDER LANDSCAPE BEDS, UNDER WALKS , NEAR LEDGROCK, AND THROUGH WALLS AND FOOTINGS WITH GENERAL CONTRACTOR.
17. ELECTRICAL CONTROL AND GROUND WIRE TO BE USED FOR CONNECTING REMOTE CONTROL VALVES TO THE AUTOMATIC CONTROLLER SHALL BE 14AWG MINIMUM.
    - CONTROL WIRE SHALL BE ONE COLOR AND GROUND WIRES ANOTHER COLOR.
    - UNUSED WIRE BURIED IN THE GROUND FOR FUTURE USE SHALL BE A THIRD COLOR.
    - WIRE CONNECTORS IN THE FIELD SHALL BE WATERPROOF.
18. WHERE INSTALLING IRRIGATION PIPE ALONG WALKS OR IN PLANTER BEDS, PLACE PIPE AS CLOSE TO WALKS AS POSSIBLE TO ALLOW FOR PLANTING OF TREES AND SHRUBS. COMBINE MAINLINE, LATERALS AND CONTROL WIRING IN COMMON TRENCHES WHERE POSSIBLE.
19. ADJUST ALL IRRIGATION SPRINKLER HEADS SO SIDEWALKS, PAVING, WALLS AND BUILDINGS REMAIN DRY OF DIRECT SPRAY OR EXCESS WATER RUN-OFF.
20. VALVE BOXES: CONCRETE AREAS: CARSON INDUSTRIES #1730-24 BODIES W/ H1730-P1 LIDS STAMPED "IRRIGATION" ON LIDS
21. THE IRRIGATION CONTRACTOR SHALL REMOVE ALL RUBBISH, EQUIPMENT AND MATERIALS, AND LEAVE AREA IN A NEAT AND CLEAN CONDITION EACH DAY. MAINTAIN PAVED AREAS IN A CLEAN AND UNOBSTRUCTED CONDITION AT ALL TIMES.
22. REMOVE SOIL AND DIRT THAT HAS ACCUMULATED DURING OR AS A RESULT OF THE INSTALLATION PROCESS EACH DAY.

IF THIS DRAWING IS LESS THAN 22" X 36" IT IS A REDUCED SIZE DRAWING

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SYCAMORE STREET IMPROVEMENTS

WICHITA, KANSAS

CITY OF WICHITA

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: 472-85284
SCALE: 1" = 10'-0"
DATE: 05/29/2020
DESIGNED BY: J. Best
DRAWN BY: J. Best
CHECKED BY: J. Best

SHEET TITLE:

IRRIGATION PLAN

SHEET NO.

20

SHEET 20 OF 97