

SAVED 9/12/2023 3:54:24 PM BY JESSI GARRETT
 PLOTTED 10/26/2023 9:54:08 AM BY ROY THOMAS
 U:\WICHITA-CIVIL\2022\220008\03\MUNICIPALDRAWINGS\220008-003-LI501.DWG

- A. GENERAL**
1. THIS PLAN SHALL SERVE AS THE LIMITS OF IRRIGATION ONLY. IT DOES NOT REFLECT OR DEPICT THE IRRIGATION DESIGN. THE CONTRACTOR IS RESPONSIBLE FOR THE IRRIGATION DESIGN SO IT MEETS SPECIFICATION SECTION AND THE FOLLOWING STANDARDS.
 2. SUBMIT SYSTEM DESIGN BY A CERTIFIED IRRIGATION DESIGN PROFESSIONAL FOR REVIEW BY THE LANDSCAPE ARCHITECT.
 3. THE IRRIGATION CONTRACTOR SHALL BE REQUIRED TO DEMONSTRATE AT LEAST 8 YEARS EXPERIENCE IN THE INSTALLATION OF SIMILAR SIZED SYSTEMS.
 4. CONTRACTORS SHALL PROVIDE WITH THE BID A SIMPLE DESIGN INDICATING THE SCHEMATIC LOCATION OF EACH ZONE, THE QUANTITY AND TYPE OF SPRINKLERS TO BE USED.
 5. CONTRACTORS SHALL SPECIFY WITH THE BID THE MANUFACTURERS OF THE CONTROLLER, VALVES, AND SPRINKLERS.
 6. COMPLY WITH THE LATEST RULES AND REGULATIONS OF SAFETY, ORDER OF DIVISION OF INDUSTRIAL SAFETY, THE UNIFORM BUILDING CODE, AND OTHER APPLICABLE LAWS AND REGULATIONS, INCLUDING ANY REGULATORY AUTHORITIES HAVING JURISDICTION, AND PLUMBING CODES.
 7. OBTAIN ALL REQUIRED PERMITS AND PAY ALL REQUIRED FEES. AT NO ADDITIONAL COST TO THE CITY OF WICHITA. PENALTIES IMPOSED DUE TO FAILURE TO OBTAIN PERMITS OR PAY FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 8. ALL WORK SHALL BE WARRANTED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR AGAINST DEFECTS IN MATERIAL, EQUIPMENT, WORKMANSHIP AND ANY REPAIRS RESULTING FROM LEAKS OR OTHER DEFECTS OF WORKMANSHIP, MATERIALS OR EQUIPMENT.
 9. SUBMIT SHOP DRAWINGS SHOWING IRRIGATION SYSTEM, INCLUDING PLAN LAYOUT AND LOCATIONS, TYPES, SIZES, CAPACITIES, AND FLOW CHARACTERISTICS OF IRRIGATION SYSTEM COMPONENTS, INCLUDING BUT NOT LIMITED TO PIPING, SPRINKLER HEADS, VALVES, WIRING, AND CONTROLS. THESE SUBMITTALS SHALL BE FURNISHED WITHIN TEN CALENDAR DAYS AFTER THE CONTRACTOR HAS RECEIVED NOTICE TO PROCEED AND SHALL INCLUDE A LAYOUT OF THE ENTIRE PROJECT INCLUDING ANY ADJACENT RIGHT-OF-WAYS, WHICH ARE REQUIRED TO BE IRRIGATED. THE DRAWINGS AND SPECIFICATIONS SHALL SHOW THE FOLLOWING AS A MINIMUM.
 - 9.1. STATIC PRESSURE (PSI) AND GALLONS PER MINUTE (GPM) UPON WHICH THE DESIGN IS BASED.
 - 9.2. COMPLETE LAYOUT OF THE SYSTEM INDICATING PLACEMENT OF ALL PIPING, CONTROLS, CONTROL BOXES, VALVES, REQUIRED SLEEVES, ETC.
 - 9.3. ALL PIPE SIZES, MATERIALS, AND CLASS RATINGS.
 - 9.4. ALL MANUFACTURERS AND MODELS NUMBERS.
 - 9.5. SPECIFICATIONS FOR EACH TYPE OF SPRINKLER HEAD SHOWING NOZZLE, SPRAY PATTERN, RADIUS, GPM/HEAD, OPERATION PSI, SIZE, ETC.
 10. SUBMIT AS-BUILT DRAWING AT COMPLETION OF WORK SHOWING LOCATIONS OF ALL VALVES, HOSE BIBS AND WIRE SPLICES, WITH ACTUAL TRIANGULATED DIMENSIONS, AS WELL AS ANY DEVIATIONS ON LOCATION OF PIPING.
 11. LOCATE AND VERIFY ALL UTILITY LOCATIONS ON AND AROUND THE SITE PRIOR TO WORK. MAINTAIN EXISTING UTILITIES AND PROTECT THEM AGAINST DAMAGE DURING THE WORK.
 12. CONTRACTOR SHALL MAKE ANY NECESSARY ADJUSTMENTS IN THE PROPOSED IRRIGATION SYSTEM TO AVOID DAMAGE TO EXISTING STRUCTURES, PAVING AND UTILITIES.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING STRUCTURES, PAVING, UTILITIES AND/OR OTHER CONSTRUCTION RESULTING FROM IRRIGATION CONSTRUCTION.
 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND LABOR TO FULLY EXECUTE AND GUARANTEE THE WORK AS REQUIRED. THE LIMITS OF WORK SHOWN ON THESE DRAWINGS SHALL BE IRRIGATED IN ACCORDANCE WITH THE SPECIFICATIONS AND PER THE DIRECTION OF THE CITY OF WICHITA AND LANDSCAPE ARCHITECT.
 15. ALL ADJUSTMENTS TO THE WORK SHALL BE SUBJECT TO THE APPROVAL OF THE CITY OF WICHITA AND THE LANDSCAPE ARCHITECT.
 16. LOCATE ALL IRRIGATION PIPING IN SUCH A WAY AS TO CAUSE THE LEAST CONFLICT WITH THE LOCATION OF PLANT MATERIALS AND OTHER SITE IMPROVEMENTS.
 17. MAIN LINE PIPING SHALL BE INSTALLED A MAXIMUM OF TWO (2) FEET FROM THE BACK OF CURB OR EDGE OF PAVEMENT. LATERAL LINE PIPING SHALL BE INSTALLED SIMILARLY WHERE POSSIBLE.
 18. ALL VALVE BOXES SHALL BE LOCATED IN LAWN AREAS OR NATURAL AREAS. EXCEPTION WILL BE ALLOWED IF NO SUCH AREA IS WITHIN A 40-FOOT RADIUS OF THE DESIGNATED CONTROL VALVE LOCATION. NO MORE THAN TWO VALVE BOXES ARE TO BE LOCATED IN ONE SPECIFIC AREA.
 19. ALL SWING JOINTS SHALL BE OF PRE-ASSEMBLED TRIPLE JOINT ASSEMBLY RIGID TYPE CONSTRUCTION. FLEX PIPE AND PHUNNY PIPE IS NOT ACCEPTABLE.
 20. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE OWNER ON THE ELECTRICAL REQUIREMENTS AND LOCATION THEREOF FOR THE IRRIGATION CONTROL CLOCK. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL CONNECTIONS FROM THE 120 VAC SERVICE PROVIDED TO THE CONTROL CLOCK AND THE 24 VOLT FIELD WIRING TO THE CONTROL CLOCK.
 21. THE LOCATION OF THE CONTROL CLOCK SHALL BE COORDINATED WITH THE CITY OF WICHITA.
 22. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH THE LOCATION OF ALL SPRINKLER HEADS IN ORDER TO ASSURE PROPER OVERAGE IN ALL AREAS. IN NO CASE SHALL SPACING OF SPRINKLER HEADS EXCEED DISTANCES SHOWN ON THE DRAWINGS AND/OR THOSE SPECIFIED. PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES WILL BE PERMITTED, BUT SUBSTITUTIONS OF LARGER SIZES MAY BE APPROVED. ALL PIPE DAMAGED OR REJECTED BECAUSE OF DEFECTS SHALL BE REMOVED FROM THE SITE AT THE TIME OF SAID REJECTION, AT NO ADDITIONAL COST TO THE CITY OF WICHITA.
 23. THE CONTRACTOR SHALL ADJUST THE RADIUS AND ARC OF EACH SPRINKLER TO MINIMIZE OVER THROW AND TO ELIMINATE DRY SPOTS.
 24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPLY AND INSTALLATION OF ADDITIONAL HEADS NEEDED TO COVER DRY SPOTS. THE LOCATION AND ARRANGEMENT OF THESE HEADS SHALL BE SUBJECT TO APPROVAL OF THE OWNER OR LANDSCAPE ARCHITECT.
 25. ALL DESIGN, DRAWINGS, SPECIFICATIONS AND MATERIALS MUST BE APPROVED BY THE CITY OF WICHITA'S PARKS AND RECREATION PRIOR TO THE START OF ANY INSTALLATION OF THE IRRIGATION SYSTEM.
- B. SLEEVING**
1. IRRIGATION SLEEVING SHALL BE PROVIDED AND INSTALLED BY THE IRRIGATION CONTRACTOR.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES, STRUCTURES, OR OTHER CONSTRUCTION RESULTING FROM INSTALLATION OF SLEEVES.
 3. ANY MODIFICATIONS TO THE SLEEVING IS SUBJECT TO THE APPROVAL OF THE CITY OF WICHITA OR THE LANDSCAPE ARCHITECT.
 4. ALL PVC SLEEVES SHALL BE A MINIMUM OF TWICE THE DIAMETER OF THE PIPE TO BE SLEEVED.
 5. ALL SLEEVES SHALL BE SCHEDULE 80 PVC PIPE, AS PER THE SPECIFICATIONS.
 6. SLEEVES SHALL BE STRAIGHT, LEVEL, AND THE SHORTEST LENGTH POSSIBLE. THE CONTRACTOR SHALL MAKE ANY ADJUSTMENT NECESSARY TO ACCOMMODATE THE EXISTING VEGETATION, UTILITIES, OR OTHER MAJOR CONSTRUCTION.
 7. THERE SHALL BE NO TURNS OR BENDS IN THE SLEEVES.
 8. BACKFILL MATERIAL PLACED AROUND THE SLEEVES SHALL BE FREE OF ROCKS OR OTHER FOREIGN MATTER THAT MAY CAUSE DAMAGE TO THE PIPE. TRENCH BACKFILL SHALL BE THOROUGHLY COMPACTED SUCH THAT NO SETTLEMENT OF FINISHED GRADE OCCURS.
 9. SLEEVES SHALL BE INSTALLED AT A DEPTH OF AT LEAST 24 INCHES BELOW PAVEMENT SURFACE, AND NO DEEPER THAT 36 INCHES. END OF SLEEVE SHALL EXTEND 18 INCHES BEYOND CURB OR PAVEMENT EDGE (SEE DETAIL).
 10. THE CONTRACTOR SHALL INSTALL A VERTICAL STUB THAT IS AT LEAST 18 INCHES ABOVE GRADE AT EACH END OF THE SLEEVE TO MARK ITS EXACT LOCATION.
 11. ONCE THE SLEEVING IS INSTALLED, THE CONTRACTOR SHALL INSTALL A TEMPORARY CAP ON EACH END OF SLEEVE TO MARK ITS EXACT LOCATION.
 12. THE CONTRACTOR SHALL LOCATE AND UNCOVER THE ENDS OF ALL SLEEVES.
- C. SYSTEM PERFORMANCE REQUIREMENTS**
1. IRRIGATION ZONE CONTROLS SHALL BE AUTOMATIC OPERATION WITH CONTROLLER AND AUTOMATIC CONTROL VALVES.
 2. GENERAL IRRIGATION COVERAGE IS NOT ACCEPTABLE.
 3. MINIMUM WATER COVERAGE NOT LESS THAN:
 - a. TURF AREAS: 100 PERCENT HEAD TO HEAD COVERAGE
 - b. OVERLAP IRRIGATION COVERAGE
 4. COMPONENTS AND INSTALLATION: CAPABLE OF PRODUCING PIPING SYSTEMS WITH THE FOLLOWING MINIMUM WORKING PRESSURE RATINGS.
 - a. PRESSURE PIPING: 200 PSIG
 - b. CIRCUIT AND DRAIN PIPING: 150 PSIG
 - c. DRAIN PIPING: 100 PSIG



**SOUTH LAKES
 SPORTS PARK
 WICHITA, KS**

Issue:		
	100% PLANS	10/18/23
	BID SETS	10/25/23
JOB NO.	220008-003	
DATE	18 OCTOBER 2023	
PM	NLS	
DESIGNED BY	NLS	
DRAWN BY	RFT	
CHECKED BY	MEB	

IRRIGATION DETAILS

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