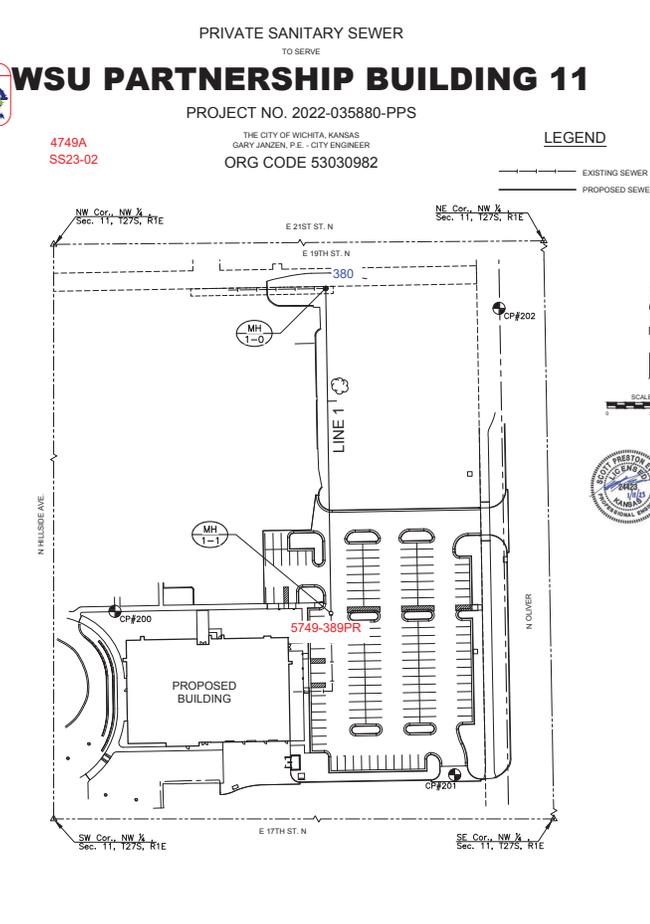


- ### GENERAL NOTES
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. ALL CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
 - CONTRACTOR WILL BE REQUIRED TO PROVIDE NOTICE TO UTILITY COMPANIES A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO ANY LOCATION, AS FOLLOWS:
KANSAS ONE-CALL 687-2470
THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

AT&T	1-800-348-8244
BLACK HILLS ENERGY (GAS)	1-800-694-6889
CITY OF WICHITA WATER SEWER	1-316-251-2807
CITY OF WICHITA WATER	1-316-254-4040
CITY OF WICHITA TRAFFIC	1-316-254-4024
COX COMMUNICATIONS	1-888-249-2030
KANSAS GAS SERVICE	1-888-460-2800
ENVIRO	1-800-444-8887
WELLFACILITIES SERVICES	1-316-254-2259
WELLFACILITIES SERVICES	1-316-251-2441
 - UTILITY SERVICE LINES, POLES, ETC. ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEM. ADJUSTMENT BY THE CONTRACTOR OR UNLESS THE PLANS SPECIFICALLY IDENTIFY A UTILITY TO BE ADJUSTED BY ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.
 - RUMBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS ELEVATION WHICH IS TO BE WAIVED SHALL BE DEPOSITED ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS, IN THE OPINION OF THE ENGINEER, THAT WILL LEAVE AN UGLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SHALL BE APPROVED BY THE KANSAS DEPARTMENT OF REE, TRAIL AND ENVIRONMENT. MATERIALS OTHER THAN TOPSOIL BE DEPOSITED IN A LOCAL PILE. TO SECURE A KANSAS STATE BOARD OF AGRICULTURE USE PERMIT. ANY MATERIALS, CLIPPED IN WASTERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO A COPY OF ENGINEERING REGULATIONS. ANY MATERIALS, CLIPPED OR DISPOSAL BEYOND APPROVED CONSTRUCTION LIMITS WILL REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS SHOWN IN A PREVIOUSLY APPROVED BORROW LOCATION.
 - TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE CITY ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.
 - THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ADJUTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS NOTICE PRIOR TO START OF CONSTRUCTION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY RIGHTS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH OR ANY PROPERTY RIGHTS WHICH ARE DAMAGED OR DESTROYED BY PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION PROCESS. WATER VALVES, VALVE BOXES OR FIRE HYDRANTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR AT HIS OWN EXPENSE. VALVE BOXES AND WATER METERS WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO MATCH FIELD GRADES BY THE CONTRACTOR.
 - THE ENGINEERING DIVISION SHALL FIELD LOCATE WATER VALVES ONE (1) DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION PROCESS. WATER VALVES, VALVE BOXES OR FIRE HYDRANTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR AT HIS OWN EXPENSE. VALVE BOXES AND WATER METERS WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO MATCH FIELD GRADES BY THE CONTRACTOR.
 - THE CONTRACTOR SHALL NOTIFY THE INSPECTOR, ENGINEER AND DAMETA BERNHARDT AT 687-4491 WITH THE CITY OF WICHITA WITH THE ANTICIPATED CONSTRUCTION START DATE AND NOTIFY THEM OF PROJECT COMPLETION. STAGING AND INSPECTION FOR THIS PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - IF TRAFFIC WILL BE IMPACTED BY CONSTRUCTION, A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY OF WICHITA ENGINEERING DIVISION PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL. BEFORE COMMENCING CONSTRUCTION, ALL CONSTRUCTION ZONE MARKINGS AND SIGNAGE SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES MOTIONS AS PUBLISHED BY THE US DEPT. OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION. ALL COSTS ASSOCIATED WITH CONSTRUCTION MARKINGS AND SIGNAGE SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
 - ALL ELEVATIONS SHOWN ARE NAVD83.
 - ALL AREAS DISTURBED DURING CONSTRUCTION THAT WILL NOT BE UNDER PROPOSED PAVEMENT SHALL BE RESTORED TO MATCH EXISTING CONDITIONS.
 - ANY SIDEWALK, DRIVE, APPOACH, CURB OR STREET PAVEMENT REMOVED TO CONSTRUCT PROJECT MUST HAVE A PAVEMENT CUT PERMIT AND BE REPLACED BY CITY CONTRACTOR. PERMITS CAN BE OBTAINED BY CALLING 316-254-4001 OR 316-254-4460.
 - ALL APPLICABLE FEES FOR EQUITABLE VALUE OF A MAJOR BENEFIT MUST BE PAID BEFORE ANY CONNECTIONS CAN BE MADE ON THIS PROJECT. QUOTES CAN BE OBTAINED ON FEES BY CALLING 316-254-4555.
 - CITY MAINTENANCE OF SANITARY SEWER MAINS ENDS AT THE LAST STRUCTURE WITHIN THE EASEMENT OR RIGHT-OF-WAY.
 - FOLLOW THE LINK BELOW FOR CONSTRUCTION DETAILS ON SPECIFIC CITY OF WICHITA STANDARD DETAILS: <https://www.wichita.gov/development/development-services/development-services>
 - CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 90 FEET.
 - EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS COMPANIES AND IS EITHER FROM COMPANY UTILITY DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
 - A PORTION OF EXCESS EXCAVATED MATERIAL SHALL BE MOUNDING AROUND MANHOLES WHICH EXTEND MORE THAN ONE (1) FOOT ABOVE THE EXISTING GROUND. SUCH MOUNDING SHALL BE CONSTRUCTED WITH NEW DEVELOPMENT 18 IN. (6) FOOT DIAMETER FLAT TOP WITH A 1:1 SLOPE SLOPES COME TO THE ORIGINAL GROUND. THE ELEVATION OF THE FLAT TOP OF THE MOUND SHALL BE AT LEAST BELOW THE TOP OF THE MANHOLE.
 - ALL SITES AND PLUGGED PIPES SHALL BE LOCATED WITH GREEN PLASTIC TAPE IN THE SAME MANNER AS RESERS.
 - CONNECTING TO EXISTING MANHOLES
PRIOR TO LAYING SEWER LINES EXISTING SITES IN EXISTING MANHOLES, THE CONTRACTOR SHALL EXPOSE AND VERIFY THE ELEVATION, GRADE AND ALIGNMENT OF EXISTING SITES AND NOTIFY THE ENGINEER OF ANY DEVIATION FROM THE PLANS. WHERE CONNECTION TO AN EXISTING MANHOLE THAT DOES NOT HAVE AN EXISTING TIE-OUT OR TIE-IN IS AVAILABLE, DUE TO ELEVATION GRADE OR ALIGNMENT, THE CONTRACTOR SHALL BORE OUT INTO EXISTING MANHOLE WALL TO MAKE CONNECTION. LINES APPROVED WATERS TOP GRADES, AND RESERVE THE EXISTING MANHOLE INVERT TO PROVIDE SMOOTH FLOW. THE COST TO CONNECT TO EXISTING MANHOLES IS ACCORDANCE TO THE PROJECT.
 - CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL MANHOLE COVERS.
 - THE CONTRACTOR SHALL PREVENT ANY CONSTRUCTION DEBRIS FROM ENTERING THE EXISTING SANITARY SEWER DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUOUS FLOW OF SEWAGE THROUGH CONSTRUCTION. CONTRACTOR'S PROPOSED METHOD FOR MAINTAINING SEWAGE FLOW SHALL BE SUBMITTED AND APPROVED BY THE SEWER MAINTENANCE DIVISION 576-4451 PRIOR TO STARTING AND BY PASSING OF SEWAGE FLOW.
 - ANY OVER EXCAVATION FROM MANHOLE AND PIPE REMOVALS SHALL BE BACKFILLED WITH A2-3 COMPACTED TO 90-50% A2M D5B.
 - WORK DONE UNDER THIS PROJECT IS SUBJECT TO THE CITY OF WICHITA REQUIREMENTS FOR CONSTRUCTION OF INFRASTRUCTURE IMPROVEMENTS BY PRIVATE CONTRACT. THE CONTRACTOR SHALL BE FAMILIAR AND COMPLY WITH ALL OF THE REQUIREMENTS INCLUDING BORROW, INSPECTION, TESTING, NOTIFICATION, PROTECTIVE AS-BUILT DRAWINGS, PAYING FOR ALL NECESSARY CONNECTIONS, AND/OR STREET REPAIR FEES AND PROVIDING PIPE MATERIAL, AND OTHER CERTIFICATIONS.
 - THE CONTRACTOR SHALL PROTECT FROM DAMAGE AND SUPPORT EXISTING UTILITIES THROUGH CONSTRUCTION AS APPROVED BY THE UTILITY OWNER AND THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
 - DEVELOPER FOR THIS PROJECT IS:
SINCO, LLC
3017 N. CYPRESS DR.
WICHITA, KS 67203
STEVE BARRETT
DREW VAN LER



PRIVATE SANITARY SEWER PLANS FOR
WSU PARTNERSHIP BUILDING 11
WICHITA, KS

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
01	TITLE SHEET
02	PRECAST CONC. MH DETAIL
03	MH FRAME & COVER DETAIL
04	VERTICAL RISER DETAIL
05	LINE 1

SEE GENERAL NOTE #16 FOR CITY OF WICHITA STANDARD BMP LINK

SURVEY

The Horizontal Datum is based on the Kansas Coordinate System of 1983, NAD83/2011, EPOCH 2010.0000, South Zone. Coordinates shown have been rounded to the ground using a combined equipment factor of 1.00120014. State Plane coordinates can be calculated by multiplying the shown values by 0.99989.

All elevations shown are based on the NAVD 83 vertical datum.

CP#171	N 169865.192	E 1664797.451	EL 1408.90
*Cold NW corner curb inlet			
CP#200	N 1698209.896	E 1664722.469	EL 1408.88
*Cold S side walk			
CP#201	N 1698208.572	E 1665090.053	EL 1411.01
*Cold NW corner curb inlet			
CP#202	N 1698568.015	E 1665345.193	EL 1409.51
*Cold NW corner curb inlet			

All Control Points shown have elevations established using standard surveying procedures and can be used as temporary benchmarks. When using a Control point as a temporary benchmark, it is recommended that cross-checks be made to other control points or benchmarks to confirm elevation prior to use.

APPROVED AS NOTED
BY WICHITA PUBLIC WORKS
ENGINEERING DIVISION

Engineering approved by Shawn Melles on this day the 10th day of January, 2023

Utilities approved by Chad Anz on this day the 10th day of January, 2023

NOTE TO CONTRACTORS

Public Property: Inspection and testing for this project is to be provided by a Licensed Consulting Engineering Firm under contract with the City of Wichita. Field inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer in the state of Kansas. No work shall be performed by the Contractor without such inspection and approval as required without written authorization by City Engineering. All construction and materials shall comply with the current City of Wichita Specifications and Standards and Special Provisions. (On file and available at Wichita.gov).

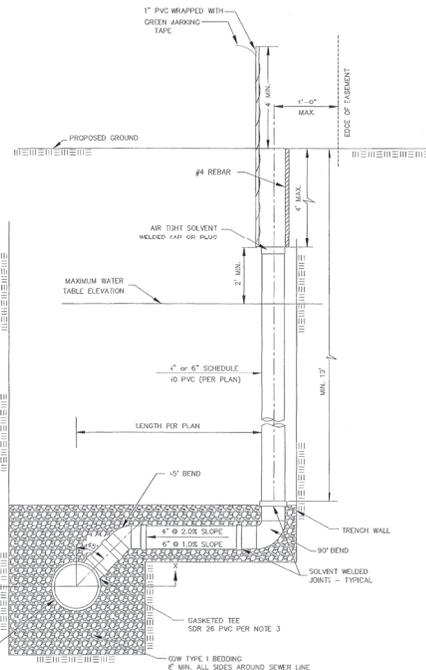
An approved copy of these plans signed by City staff is required on-site.

TITLE SHEET	
PROJECT NO.	2022-035880-PPS
DATE	01-09-23
SCALE	1"=40'
DESIGNED	CONWAY
CHECKED	C.J.L. SPE
DATE	
NO.	REVISION
DATE	

SHEET NO. 01 OF 05

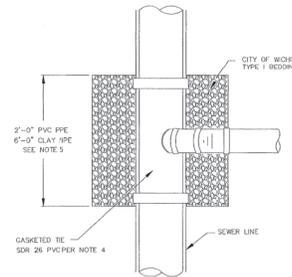
GENERAL NOTES

- APPLICATION: Risers shall be installed to serve all lots or tracts where the sanitary sewer main is below the water table, where the sanitary sewer main depth is greater than 12' below the proposed ground elevation, where the main is adjacent to a pond or streamer service lines would have to cross under storm sewer pipe. Installation of risers because of field conditions shall be approved by the City Engineer. The location of the riser to be developed properly shall be approved by the property owner and the Construction Engineer.
- MANHOLE STUB RISERS: Manhole stub risers be installed in manholes where connections of manholes will provide satisfactory service connection as determined by the Construction Engineer. The vertical distance between the bottom of the manhole stub and the bottom of the sanitary sewer line out of the manhole shall not exceed 2'. Risers shall be utilized at manholes as indicated in Note 1. Manhole stub riser shall be set such that the top of the stub is not lower than the top of the sanitary sewer line.
- SIZING: Risers shall be sized according to the plans and riser table where risers are indicated by the plans. Where risers are required because of field conditions, the risers shall be 6" diameter for commercial or industrial properties and 4" or 6" diameter for residential properties, based on lot size and sanitary sewer main depth. Sizing of risers shall be approved by the construction engineer prior to installation.
- RISER MATERIAL: Risers shall be constructed of Schedule 40 PVC Pipe, meeting the requirement of the latest revision of A.S.T.M. All pipe joints shall be solvent welded. Full body tee shall be SDR 26 PVC pipe.
- ROCK ENCASUREMENT: Riser connection to clay pipe sanitary sewers shall be rock encased both ways from the riser centerline. The rock encasement shall extend three feet from the riser centerline or stop at the first sanitary sewer pipe joint within three feet of the riser centerline. Riser connections to PVC sanitary sewer mains shall be rock encased one foot each way from the riser centerline. Crushed rock shall conform to ASTM C-33, Gradation No. 87, and shall meet all requirements for Portland Cement Concrete pavement Course Aggregate, Section 400.3, City of Wichita Standard Specifications.
- BEDDING: Beyond the limits of the rock encasement, bedding around the sanitary sewer riser shall be compacted Pipe Bedding Type 1 or 2. The bedding shall be placed and compacted from the depth of the sanitary sewer main to the top of the sanitary sewer riser pipe. Compacted Pipe Bedding Type 1 or 2 shall be required for all risers whether constructed in vertical well or sloped well trenches. Bedding material and construction practices shall be approved by the Construction Engineer prior to installation.
- SUPPORT OF RISERS: Sanitary sewer riser pipe shall be supported during trench backfill. The riser pipe shall be held in a vertical position at all times until trench backfill and compaction has been completed. Contractor's methods for supporting and loss filling the riser pipe shall be approved by the Construction Engineer.
- PLUGGING: The ends of the riser pipes and manhole stubs shall be plugged using an airtight solvent welded cap or plug. Caps or plugs fittings shall be approved by the Construction Engineer prior to installation. Caps or plugs which do not provide an airtight seal will not be accepted.
- TOP OF THE RISER PIPE: The top elevation of the sanitary sewer riser pipe shall be built per plan elevations unless otherwise directed by the Construction Engineer, where riser elevations are not shown on the plans, the top of the risers shall be set of an elevation four feet below the proposed ground surface. If ground water is encountered, the top of the riser pipe shall be set at an elevation 2' (min.) above the maximum water table elevation, regardless of the riser elevation shown on the plans.
- MARKING: Locations of the ends of the sanitary sewer riser pipe shall be marked by installing 1" PVC from the top of the riser to a minimum of 4' above the top of finished grade. A rebar shall be placed centered over the riser from the cap to the existing ground. The 1" PVC pipe shall be wrapped with green colored plastic tape the full length above ground surface. The green tape shall be 4 mil Polyethylene film with a minimum width of three inches, specifically manufactured for the purpose of identification of underground assets.
- LOCATION MEASURES: The project inspector shall record and document the location of all risers constructed as measured from the nearest manhole, indicate the direction from the manhole, the direction and distance from man, riser size, and elevation of the top of the riser in labour format.
- RISER LOCATION: The riser shall be located per plan if shown. If not shown on the plan, the riser shall be located off the center of the lot, within one foot of the property side of the easement for the lot being served. All riser locations shall be approved by the Construction Engineer prior to installation.
- PAYMENT: "Riser Assembly, Vertical" shall be paid for at the contract unit price per each, which shall be full compensation for all labor, materials and incidentals necessary to complete the work including all pipe, fittings, rock encasement, and all other items as required and listed for "Riser Assembly, Vertical".



SANITARY SEWER RISER TABLE							FOR INFORMATION ONLY	
NUMBER	TYPE	LOCATION			STATION	DIRECTION	APPROXIMATE LENGTH	
		LOT NO.	BLOCK NO.	LINE NO.			VERTICAL (FT)	HORIZONTAL (FT)
1	4" MANHOLE CONNECTION							
2	6" MANHOLE CONNECTION							
3	4" TEE							
4	6" TEE							

NOTE: TABLE FOR REFERENCE ONLY AND SHOULD BE ON EACH APPLICABLE PLAN SHEET.



NOTE: NON SHEAR COUPLING TO BE USED WHEN HOUSING TO CLAY PIPE.

NOTE: RISER PIPE REQUIREMENTS AT MANHOLE CONNECTION SHALL BE SIMILAR TO THOSE SHOWN ABOVE.

TYPICAL SECTION X-X



REVISION: JULY 2015			
VERTICAL RISER ASSEMBLY SEWER DETAIL			
CITY ENGINEER GARY JANZEN, P.E.			
PROJECT NUMBER 2022-035880-PPS	CCA NUMBER ###	DATE 01-09-23	SHEET
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-3400 (316) 268-6801			04 OF 05

