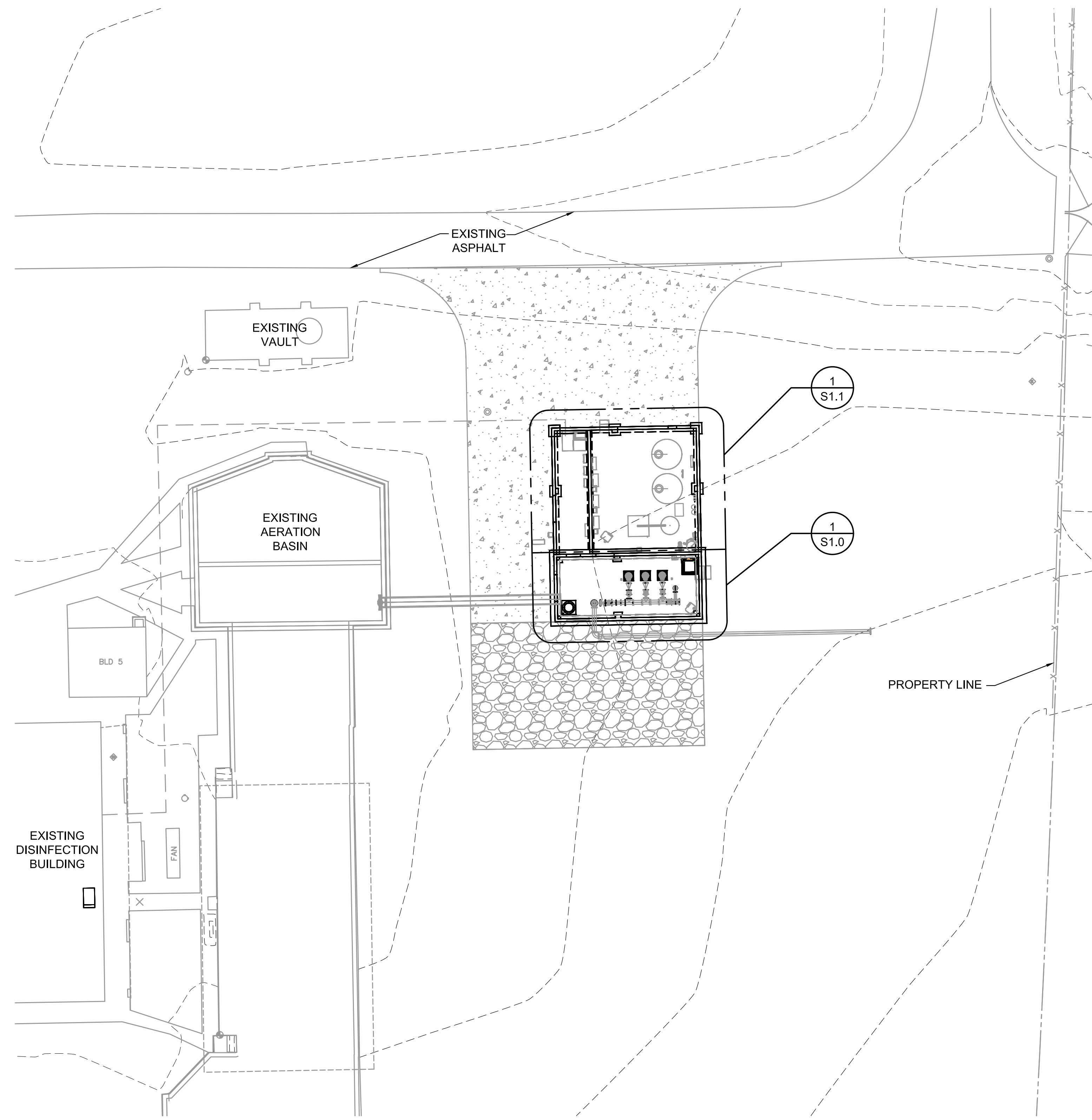
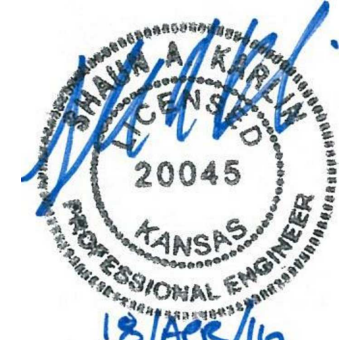


PLOTTED: Friday, April 22, 2016 @ 08:51 AM

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LOCATION PLAN
SCALE: 1/16" = 1'-0"



STRUCTURAL GENERAL NOTES

1. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE "INTERNATIONAL BUILDING CODE, 2006 EDITION," AS AMENDED AND ADOPTED BY THE CITY OF WICHITA AND SEDGWICK COUNTY, KANSAS METROPOLITAN AREA BUILDING AND CONSTRUCTION DEPARTMENT.
2. DESIGN CRITERIA AND LOADS: ROOF LIVE LOAD - 20 PSF WITH CODE PROVISIONS FOR SNOW DRIFTING (Pg = 15 PSF) AND NO REDUCTIONS FOR METAL BUILDING FRAMES; METAL BUILDING COLLATERAL ROOF DEAD LOAD - 3.0 PSF; VAULT CAP SLAB LIVE LOAD = 250 PSF; SLAB ON GRADE LIVE LOAD - 250 PSF; BASIC WIND SPEED - 90 MPH (3-SEC GUST), EXPOSURE C; SEISMIC DESIGN CATEGORY - B; SEISMIC SITE CLASS - D; WIND IMPORTANCE FACTOR - 1.15; SEISMIC IMPORTANCE FACTOR - 1.25; MAXIMUM METAL BUILDING LATERAL DRIFT - H/120.
3. THE NET ALLOWABLE TOTAL LOAD SOIL PRESSURES DO NOT EXCEED 1500 PSF ALLOWABLE BEARING FOR ALL FOOTINGS BEARING INTO NATIVE UNDISTURBED NON-ORGANIC SOILS OR INTO A CONTROLLED, COMPACTED, TESTED ENGINEERED FILL & 2000 PSF FOR FOUNDATIONS BEARING GREATER THAN 8 FEET BELOW GRADE. (REFER TO GEOTECHNICAL REPORT BY ALLIED LABORATORIES NO. 74-14229-001-0147, DATED JANUARY 2015) ALL FOOTINGS SHALL EXTEND AT LEAST 3'-0" BELOW FINAL ADJACENT GRADE. THE EXPOSED SUBGRADE IN THE PROPOSED BUILDING AREA SHOULD BE DENSIFIED IN PLACE AS RECOMMENDED BY THE SOILS ENGINEER. IF ACTUAL SITE CONDITIONS DO NOT SATISFY THESE REQUIREMENTS COORDINATE ADJUSTMENTS WITH THE ENGINEER/SOILS ENGINEER.
4. SURFACE WATER SHALL NOT BE ALLOWED TO STAND ADJACENT TO OR DRAIN TOWARDS THE FOUNDATION UNDER ANY CIRCUMSTANCES. PAVEMENTS OR GRADED SOIL AT THE PERIMETER OF THE BUILDING, EXCEPT AS REQUIRED AT EXITS OR AS NOTED, SHALL BE SLOPED AWAY AT 1/2 INCHES/FT. MINIMUM FOR THE FIRST 10 FEET.
5. FOOTINGS MAY BE POURED TO NEAT LINES OF EXCAVATIONS PROVIDING VERTICAL LINES OF EXCAVATIONS CAN BE MAINTAINED DURING CONCRETE PLACEMENT.
6. WET WELL VAULT FOUNDATION WALLS SHALL NOT BE BACKFILLED UNTILL THE FIRST FLOOR SLAB IS IN PLACE OR THE WALLS ARE PROPERLY SHORED.
7. BEAMS, COLUMNS, AND FOOTINGS CENTER SHALL BE CENTERED UNDER SUPPORTING MEMBERS (TYPICAL UNLESS NOTED).
8. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4".
9. NO ALUMINUM SHALL BE EMBEDDED IN ANY CONCRETE.
10. ALL STRUCTURAL REGULAR WEIGHT CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS (TYPICAL UNLESS NOTED). ALL CONCRETE MIX DESIGNS SHALL HAVE WATER TO CEMENT RATIOS LESS THAN 0.45, WITH A MAXIMUM 60/40 FINE TO COARSE AGGREGATE RATIO. ALL CONCRETE SHALL BE IN CONFORMANCE WITH THE LATEST A.C.I. 301 STANDARDS PUBLICATION.
11. FLY ASH CONTENT SHALL NOT EXCEED 20% OF CEMENTIOUS MATERIALS BY WEIGHT.
12. ALL REINFORCING BARS SHALL MEET ASTM A615 GRADE 60.
13. REINFORCING BARS QUANTITIES SHOWN ARE FOR ESTIMATING PURPOSES ONLY.
14. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE 3" CLEAR FOR CONCRETE CAST AGAINST EARTH AND 2" CLEAR FOR FORMED SURFACES (TYPICAL UNLESS NOTED).
15. REINFORCEMENT SHALL BE CONTINUOUS AND PROVIDE MINIMUM LAP SPLICE PER A.C.I. 301 STANDARD (2'-6" MIN.) EXCEPT AS NOTED AND PROVIDE CORNER BARS OF SAME SIZE AND SPACING.
16. REINFORCEMENT SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST A.C.I. DETAILING MANUAL BY A QUALIFIED AND EXPERIENCED PERSON AND FIRM. PLACE AND SUPPORT REINFORCING WITH ACCESSORIES: MAXIMUM SPACING - 48" CENTERS. USE 3" SBP SUPPORTS AT ALL FOOTINGS.
17. CONTRACTOR SHALL VERIFY THAT ALL REINFORCEMENT, INSERTS, SLEEVES AND EMBEDDED ITEMS ARE PROPERLY LOCATED AND RIGIDLY SECURED PRIOR TO CONCRETE PLACEMENT.
18. ALL POST INSTALLED ANCHORS OR FASTENERS WHERE NOTED SHALL BE MANUFACTURED BY HILTI, INC. AND INSTALLED PER HILTI SPECIFICATIONS. HY200 ANCHORS SHALL BE INSTALLED USING THE "SAFE-SET" INSTALLATION METHOD. SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL WITH APPROPRIATE ICC EVALUATION REPORTS.
19. ALL STRUCTURAL STEEL SHALL BE GALV. PER ASTM A123. STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL MEET ASTM A992 (Fy = 50 KSI MIN.), STRUCTURAL SHAPES OTHER THAN WIDE FLANGE SHALL MEET ASTM A36 (Fy = 36 KSI MIN.), STRUCTURAL SQUARE TUBING (HSS) - ASTM A500 GRADE B (Fy = 46 KSI MIN.), STRUCTURAL ROUND TUBING (HSS) - ASTM A53 (Fy = 35 KSI MIN.), STRUCTURAL STEEL ANCHOR RODS - ASTM F1554 (Fy = 55 KSI MIN.), TYP. UNLESS NOTED OTHERWISE.
20. STRUCTURAL STEEL SHALL BE NEW AND MEET THE LATEST EDITION A.I.S.C. "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS AND BRIDGES", AND THE "CODE OF STANDARD PRACTICES FOR STEEL BUILDINGS AND BRIDGES", EXCLUDING SECTION 4.4.1.b.
21. ALL STRUCTURAL STEEL FIELD CONNECTIONS SHALL HAVE STANDARD A.I.S.C. FRAMING CONNECTIONS WITH GALV. A325N BOLTS AND WASHERS AS REQUIRED: INSTALLED WITH TURN-OF-THE-NUT" METHODS, UNLESS NOTED. ERECTION DRAWINGS SHALL SHOW ALL FIELD WELDS, AS APPROPRIATE.
22. STEEL BEAMS SHALL BE FABRICATED WITH MILL CAMBER UP.
23. ANY SHOP AND FIELD SPLICES WITHIN THE STEEL MEMBERS DESIGN LENGTH MUST BE MADE WITH A FULL PENETRATION WELD AND PROVED ADEQUATE BY NON-DESTRUCTIVE TESTING AT THE CONTRACTOR'S EXPENSE.
24. WELDING SHALL CONFORM TO THE CURRENT A.W.S. "STRUCTURAL WELDING CODE - STEEL" AND "STRUCTURAL WELDING CODE - SHEET STEEL" SPECIFICATIONS AND BE COMPLETED BY AN A.W.S. CERTIFIED WELDER. ALL FIELD WELDS SHALL BE COATED W/ ZINC RICH GALVANIZING REPAIR PAINT
25. PUMP ANCHOR RODS SHALL BE ASTM F1554 (FY = 105 KSI MIN.), TYP. UNLESS NOTED OTHERWISE
26. EPOXY GROUT INDICATED ON DRAWINGS UNDER EQUIPMENT BASE SHALL BE ESCOWELD 7505E OR APPROVED EQUIVALENT WITH MINIMUM COMPRESSIVE STRENGTH OF 14,000 PSI AT 14 DAYS CONFORMING TO ASTM C-579.
27. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION THAT ALL METAL BUILDING COLUMN BASE PLATES WILL FULLY BEAR ON CONCRETE PIER/FOOTINGS. INCREASE SIZE WHERE REQUIRED TO ACCOMMODATE FULL BEARING: COORDINATE WITH THE ENGINEER.
28. ANCHOR BOLTS SIZES AND PLACEMENT LOCATIONS BY METAL BUILDING MANUFACTURER. ANCHOR BOLTS SHALL BE FURNISHED BY THE GENERAL CONTRACTOR AND SET WITH A TEMPLATE.
29. METAL BUILDING MANUFACTURER TO BE A MEMBER OF THE METAL BUILDING MANUFACTURERS ASSOCIATION (MBMA) AND BE APPROVED BY THE OWNERS REPRESENTATIVE.
30. THE METAL BUILDING MANUFACTURER SHALL BE RESPONSIBLE FOR THE METAL BUILDING DESIGN. THE METAL BUILDING DESIGN AND CALCULATIONS SEALED BY A KANSAS LICENSED ENGINEER SHALL BE SUBMITTED TO THE OWNERS REPRESENTATIVE FOR APPROVAL BEFORE FABRICATION AND APPROVED BEFORE ANY CONCRETE FOOTINGS ARE POURED. THE METAL BUILDING MANUFACTURER SHALL PROVIDE ALL ACTUAL COLUMN LOCATIONS AND LOADS TO THE FOUNDATIONS FOR DESIGN VERIFICATIONS INCLUDING WIND COLUMN/BRACING CONDITIONS.
31. ALL METAL BUILDING COMPONENTS SHALL BE GALVANIZED. STRUCTURAL STEEL COMPONENTS SHALL BE GALVANIZED PER ASTM A123. LIGHT GAGE STEEL COMPONENTS SHALL BE FORMED FROM GALVANIZED SHEET STEEL.
32. METAL BUILDING DESIGN TO MEET LATEST MBMA SPECIFICATIONS AND LOCAL CODE REQUIREMENTS.
33. HOLES, PIPES, SLEEVES, ETC. NOT SHOWN ON THE DRAWINGS MUST BE REVIEWED BY THE ENGINEER BEFORE PLACEMENT THRU STRUCTURAL MEMBERS.
34. NO AREA OF THE STRUCTURE SHALL BE LOADED WITH CONSTRUCTION MATERIALS OR EQUIPMENT THAT EXCEEDS FINAL DESIGN CRITERIA.
35. THE FOUNDATIONS AND STRUCTURES ARE DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE STRUCTURE IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO EXECUTE AND DETERMINE FINAL ERECTION PROCEDURES, SEQUENCING AND TO INSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYING OR TIE DOWNS WHICH MIGHT BE NECESSARY.
36. FABRICATORS AND SUPPLIERS SHALL CLEARLY NOTE AND HIGHLIGHT CHANGES MADE IN SHOP DRAWINGS WHICH DO NOT COMPLY WITH THE CONTRACT DOCUMENTS.
37. IF DISCREPANCIES EXIST BETWEEN STRUCTURAL PLANS, OTHER PLANS, OR SPECIFICATIONS, THE CONTRACTOR OR SUB-CONTRACTOR SHALL PROVIDE A WRITTEN REQUEST FOR CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
38. THE STRUCTURE IS NOT DESIGNED FOR FUTURE EXPANSION.
39. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.



CITY OF WICHITA, KANSAS
RE-USE WATER PUMP STATION
 TO SERVE SPIRIT AEROSYSTEMS

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LOCATION PLAN & STRUCTURAL GENERAL NOTES

PROJECT NO.	468-85112	
DATE	04/18/16	
SCALE	AS NOTED	
DESIGNED	DRAWN	CHECKED
SK	CAM	AR
ISSUED FOR CONSTRUCTION NO.	04/18/16	DATE
NO.	REVISION	DATE
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