BUILDING INFORMATION

A. DESIGN CODES
1. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE "INTERNATIONAL BUILDING CODE, 2018 EDITION," AS AMENDED AND ADOPTED BY THE WICHITA–SEDGWICK COUNTY, KANSAS METROPOLITAN AREA BUILDING AND CONSTRUCTION DEPARTMENT.
2. REFERENCED STANDARD
   A. ASCE 7–16
   B. ACI 318–14
   C. AISC 360–16

B. DESIGN CRITERIA & LOADS

1.	RISK CATEGORY:	II
2.	SLAB ON GRADE LIVE LOAD:	150 PSF
3.	WIND DESIGN:	
	A. BASIC WIND SPEED	110 MPH (ULTIMATE)
	B. ALLOWABLE WIND SPEED	90 MPH (ASD)
	C. EXPOSURE:	C
4.	SEISMIC DESIGN:	
	A. SEISMIC DESIGN CATEGORY	B
	B. SITE CLASS	D
	C. I_e =	1.0

GEOTECHNICAL & FOUNDATIONS

1. ALL SHALLOW FOUNDATIONS SHALL BEAR ON NATIVE UNDISTURBED SOILS OR ENGINEERED STRUCTURAL FILL WITH A MINIMUM NET ALLOWABLE SOIL BEARING CAPACITY OF 2000 PSF. ALL PERIMETER AND EXTERIOR FOUNDATIONS SHALL EXTEND 3' – 0" MINIMUM BELOW FINAL ADJACENT GRADE.
2. NATIVE SOIL MOISTURE EVALUATIONS SHALL BE PERFORMED A FEW DAYS BEFORE EARTHWORK BEGINS. THE CONTRACTOR SHALL PROVIDE SOIL TESTING SERVICES TO CONFIRM SOIL CONDITIONS/ BEARING VALUES AND PROVIDE WRITTEN VERIFICATION TO THE OWNER'S REPRESENTATIVE AND ENGINEER. IF ACTUAL SITE CONDITIONS DO NOT SATISFY DESIGN REQUIREMENTS. COORDINATE SOIL IMPROVEMENTS WITH THE OWNER'S REPRESENTATION AND ENGINEER.
3. FOOTINGS MAY BE POURED TO NEAT LINES OF EXCAVATION PROVIDED THAT VERTICAL LINES OF EXCAVATIONS CAN BE MAINTAINED DURING CONCRETE PLACEMENT.
4. BEAMS, COLUMNS, AND WALLS SHALL BE CENTERED ON SUPPORTING FOUNDATION ELEMENTS UNLESS NOTED OTHERWISE.
5. 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 IN/FT MINIMUM FOR THE FIRST 10 FEET, UNLESS NOTED OTHERWISE ON CIVIL GRADING PLANS.

REINFORCED CONCRETE

1. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4". CONFIRM WITH ARCHITECT OR OWNER.
2. NO ALUMINUM SHALL BE EMBEDDED IN ANY CONCRETE.
3. CONCRETE MIX SPECIFICATIONS

	MIN. f'c	MAX. W/C	AIR CONTENT
A. FOUNDATIONS	3,500 PSI	0.55	5% ± 1%
B. SLABS ON GRADE	4,000 PSI	0.50	3% MAX.
C. CAST–IN–PLACE WALLS	4,000 PSI	0.50	5% ± 1%

4. ALL CONCRETE SHALL BE IN CONFORMANCE WITH THE LATEST ACI 301 STANDARDS PUBLICATION.
5. ALL REINFORCING BARS SHALL MEET ASTM A615 GRADE 60.
6. ALL REINFORCEMENT FOR SHEET PILE CAPS SHALL BE EPOXY COATED PER ASTM A775. ANY EPOXY COATING DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BEFORE CONCRETE PLACEMENT.
7. REINFORCING BAR QUANTITIES SHOWN ARE FOR ESTIMATING PURPOSES ONLY.
8. PROVIDE 2% EXTRA BARS OF VARIOUS SIZES USED ON THIS PROJECT TO BE USED AS DIRECTED. INCLUDE LABOR FOR PLACEMENT.
9. MINIMUM REINFORCEMENT COVER (UNLESS NOTED OTHERWISE):

A. FOUNDATIONS	3" CLEAR
B. INTERIOR SLABS & WALLS	3/4" CLEAR
C. EXTERIOR SLABS & WALLS	2" CLEAR
D. ALL OTHER USES	2" CLEAR

10. REINFORCEMENT SHALL BE CONTINUOUS AND LAPPED 40 BAR DIAMETERS (2' – 0" MIN.) UNLESS NOTED OTHERWISE. PROVIDE CORNER BARS OF SAME SIZE AND SPACING.
11. REINFORCEMENT SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL BY A QUALIFIED AND EXPERIENCED PERSON AND FIRM. PLACE AND SUPPORT REINFORCING WITH ACCESSORIES AT 48" O.C. MAXIMUM. USE 3" SLAB BOLSTER WITH PLATE (SBP) SUPPORTS AT ALL FOOTINGS.
12. THE CONTRACTOR SHALL VERIFY THAT ALL REINFORCEMENTS, INSERTS, SLEEVES AND EMBEDDED ITEMS ARE PROPERLY LOCATED AND RIGIDLY SECURED PRIOR TO CONCRETE PLACEMENT.
13. ALL ANCHORS WHERE NOTED SHALL BE MANUFACTURED BY HILTI, INC. AND INSTALLED PER HILTI SPECIFICATIONS. HILTI HY200 ANCHORS SHALL USE HILTI "SAFE SET" INSTALLATION METHOD. SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL WITH APPROPRIATE ICC–ES EVALUATION REPORTS.

STRUCTURAL STEEL

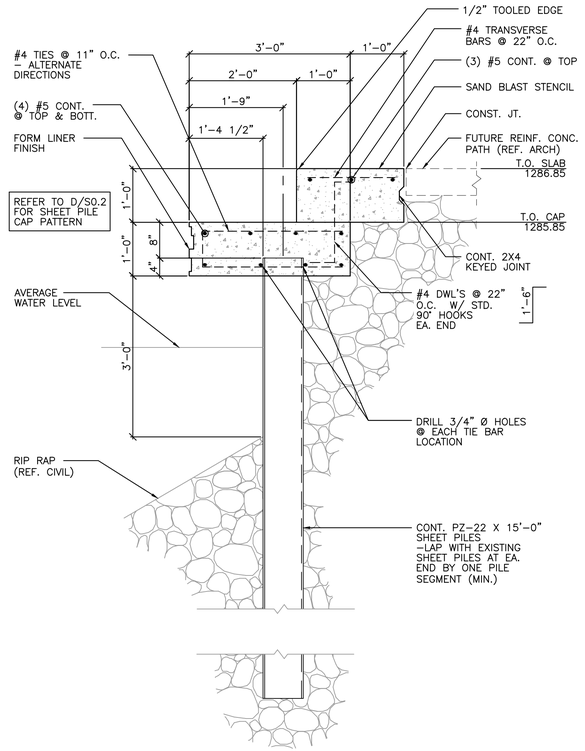
1. MATERIAL SPECIFICATIONS:

A. ANGLES AND CHANNELS	ASTM A36	Fy = 36 KSI
B. PLATES & BASE PLATES	ASTM A572, GR. 50	Fy = 50 KSI
C. SHEET PILES	ASTM A572, GR. 50	Fy = 50 KSI

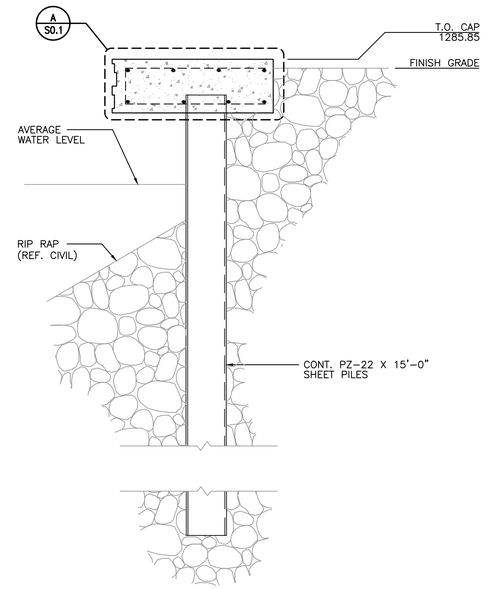
2. ALL SHEET PILES SHALL BE A MINUMUM THICKNESS OF 3/8" AND CONNECT WITH INTERLOCKING JOINTS. REFER TO DRAWINGS FOR SHEET PILE SIZES. ALTERNATE EQUIVALENT SHEET PILE PRODUCTS SUBMITTED FOR APPROVAL ARE STRUCTURALLY ACCEPTABLE.
3. STRUCTURAL STEEL SHALL BE NEW AND MEET THE FIFTEENTH EDITION A.I.S.C. "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS AND BRIDGES", AND THE "CODE OF STANDARD PRACTICES FOR STEEL BUILDINGS AND BRIDGES", EXCLUDING SECTION 4.4.1.B.
4. THE STRUCTURAL STEEL FABRICATOR SHALL BE AN AISC QUALITY CERTIFIED COMPANY FOR THE CATEGORY OF WORK IN THIS PROJECT OR PROVIDE A QUALITY ASSURANCE PLAN AND SPECIAL INSPECTIONS AS DEFINED IN THE CODE.
5. ERECTION DRAWINGS SHALL SHOW ALL FIELD WELDS, AS APPROPRIATE.
6. ANY SHOP AND FIELD SPLICES WITHIN THE DESIGN LENGTH OF ANY MEMBER MUST BE MADE WITH A FULL PENETRATION WELD AND CERTIFIED ADEQUATE BY NON–DESTRUCTIVE TESTING AT THE CONTRACTOR'S EXPENSE.
7. WELDING SHALL CONFORM TO THE CURRENT AWS "STRUCTURAL WELDING CODE – STEEL" AND "STRUCTURAL WELDING CODE – SHEET STEEL" SPECIFICATIONS AND BE COMPLETED BY AN AWS CERTIFIED WELDER.

CONSTRUCTION NOTES

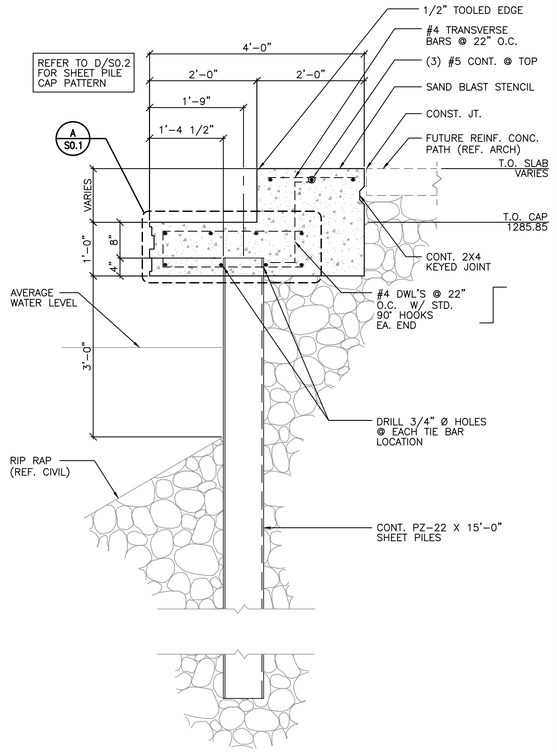
1. HOLES, PIPES, SLEEVES, ETC. NOT SHOWN ON THE DRAWINGS MUST BE REVIEWED BY THE ENGINEER BEFORE PLACEMENT THROUGH STRUCTURAL MEMBERS.
2. IF MECHANICAL AND ELECTRICAL EQUIPMENT SIZES, WEIGHTS, OR LOCATIONS DO NOT COINCIDE WITH EQUIPMENT SHOWN ON THE PLANS, COORDINATE ADJUSTMENTS WITH THE ARCHITECT.
3. NO AREA OF THE STRUCTURE SHALL BE LOADED WITH CONSTRUCTION MATERIALS OR EQUIPMENT THAT EXCEEDS FINAL DESIGN CRITERIA.
4. THE STRUCTURE IS DESIGNED TO BE SELF–SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO EXECUTE AND DETERMINE FINAL ERECTION PROCEDURES, SEQUENCING AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYING OR TIE DOWNS WHICH MIGHT BE NECESSARY.
5. FABRICATORS AND SUPPLIERS SHALL CLEARLY NOTE AND HIGHLIGHT CHANGES MADE IN SHOP DRAWINGS WHICH DO NOT COMPLY WITH THE CONTRACT DOCUMENTS.
6. IF DISCREPANCIES EXIST BETWEEN STRUCTURAL PLANS, ARCHITECTURAL PLANS, OTHER PLANS, OR SPECIFICATIONS, THE CONTRACTOR OR SUB–CONTRACTOR SHALL PROVIDE A WRITTEN REQUEST FOR CLARIFICATION FROM THE ARCHITECT AND/OR ENGINEER BEFORE PROCEEDING WITH THE WORK.
7. THE STRUCTURE IS NOT DESIGNED FOR FUTURE EXPANSION.
8. CONTRACTOR TO VERIFY ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT IMMEDIATELY.



A S0.1 SHEET PILE SECTION - TYPE 1
SCALE: 3/4" = 1'–0"
NOTE: ALL REBAR TO BE EPOXY COATED.



B S0.1 SHEET PILE SECTION - TYPE 2
SCALE: 3/4" = 1'–0"
NOTE: ALL REBAR TO BE EPOXY COATED.



C S0.1 SHEET PILE SECTION - TYPE 3
SCALE: 3/4" = 1'–0"
NOTE: ALL REBAR TO BE EPOXY COATED.

PRINTS ISSUED

DATE	PURPOSE	NO.
08.01.24	FOR BID & CONSTRUCTION	

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CONTACT: AJW
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PROJECT NUMBER: 24103
SHEET TITLE: STRUCTURAL GENERAL NOTES
SHEET NUMBER: S0.1