GENERAL NOTES

1. STRUCTURAL ELEMENTS ARE NON-SELF SUPPORTING AND REQUIRE INTERACTION WITH OTHER ELEMENTS FOR STABILITY AND RESISTANCE TO LATERAL FORCES. FRAMING AND WALLS SHALL BE TEMPORARILY BRACED BY THE CONTRACTOR UNTIL PERMANENT BRACING, FLOOR AND ROOF DECKS, AND WALLS HAVE BEEN INSTALLED AND CONNECTIONS BETWEEN THESE ELEMENTS HAVE BEEN MADE.
2. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. UNLESS NOTED OTHERWISE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO.
3. THE STRUCTURE HAS BEEN DESIGNED FOR THE INDICATED LOADS ONLY. USE OF HEAVY EQUIPMENT AND SCAFFOLDING, OR STORAGE OF MATERIALS THAT TRANSFER EXCESSIVE LOADS TO THE STRUCTURE SHALL BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE CALCULATIONS SIGN AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED TO VERIFY THE ADEQUACY OF THE STRUCTURE FOR ALL APPLIED CONSTRUCTION LOADS THAT EXCEED THE LOADS INDICATED IN THE CONSTRUCTION DOCUMENTS AND SHALL BE APPROVED BY THE ARCHITECT AND ENGINEER-OF-RECORD PRIOR TO ANY CONSTRUCTION ACTIVITY.
4. THE SPECIFICATIONS ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS AND SHALL BE USED IN CONJUCTION WITH THE CONTRACT DRAWINGS. WHERE REQUIREMENTS INDICATED ON THE CONTRACT DRAWINGS DIFFER FROM THE SPECIFICATIONS, NOTIFY THE ARCHITECT AND THE ENGINEER-OF-RECORD.
5. STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO SHOP DRAWINGS AND WORK.
6. USE ONLY DIMENSIONS INDICATED IN THE CONTRACT DOCUMENTS. DO NOT SCALE CONTRACT DOCUMENTS OR USE ANY DIMENSIONS TAKEN FROM ELECTRONIC DRAWING FILES. CONTRACTOR SHALL COORDINATE IN-PLACE DIMENSIONS BASED ON TOLERANCES OF THE RESPECTIVE TRADES.
7. ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS AND SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST SEISMIC FORCES AS DETERMINED IN CHAPTER 13 OF ASCE 7.
8. CONTRACTOR SHALL COORDINATE ALL DIMENSIONS, OPENING, BLOCKOUTS, RECESSES, ELEVATIONS, ANCHOR RODS AND EMBED LOCATIONS PRIOR TO CONSTRUCTION.

FOUNDATIONS

1. FOOTING DESIGNS ARE BASED ON AN ASSSUMED STABLE, NON-EXPANSIVE SOIL WITH AN ALLOWING BEARING PRESSURE OF 2,000 PSF WITH A MAXIMUM DIFFERENTIAL SETTLEMENT OF 1/2 INCH. THE OWNER SHALL HIRE A REGISTERED GEOTECHNICAL ENGINEER LICENSED IN THE STATE TO DETERMINE WHETHER OR NOT THE SOIL MEETS THE MINIMUM CRITERIA. THE GEOTECHNICAL ENGINEER SHALL MAKE RECCOMMENDATIONS AND VERIFY CONFORMANCE OF EXCAVATION, SCARIFYING, PROOF-ROLLING, FILL CLASSIFICATION, MAXIMUM PARTICLE SIZE, LIQUID LIMIT, PLASTICITY INDEX AND PLACEMENT PROCEDURES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT QUANTITIES OF CUT AND FILL FOR ESTIMATING AND CONSTRUCTION.
3. AVOID DAMAGE TO UNDERGROUND UTILITIES INCLUDING, BUT NOT LIMITED TO, WATER MAINS, SANITARY SEWERS AND BURIED CABLES WHICH MIGHT EXTEND ACROSS OR ADJOIN SITE.

CAST-IN-PLACE CONCRETE

1. EXTERIOR CONCRETE: PROPORTION NORMAL WEIGHT CONCRETE MIXTURE USING TYPE I OR II PORTLAND CEMENT AS FOLLOWS:
   A. MINIMUM COMPRESSIVE STRENGTH: 4000 PSI AT 28 DAYS.
   B. MAXIMUM WATER-CEMENTITIOUS MATERIAL RATIO: 0.44.
   C. SLUMP LIMIT: 4 INCHES, PLUS OR MINUS 1 INCH.
   D. MAXIMUM COARSE AGGREGATE SIZE: 1.5 INCH.
2. MATERIALS OR ADMIXTURES SHALL NOT CONTAIN ANY CALCIUM CHLORIDE.
3. REINFORCING STEEL SHALL MEET THE FOLLOWING:
   A. DEFORMED BARS: ASTM A615, GRADE 60.
4. REFER TO ACI 318 LATEST EDITION FOR CONCRETE COVER, ACI 315 LATEST EDITION FOR DETAILING PRACTICES AND FABRICATION, AND ACI 301 LATEST EDITION FOR STANDARD PRACTICE FOR MIXING AND PLACING CONCRETE.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL MEET THE FOLLOWING MINIMUM YIELD STRESS (Fy):

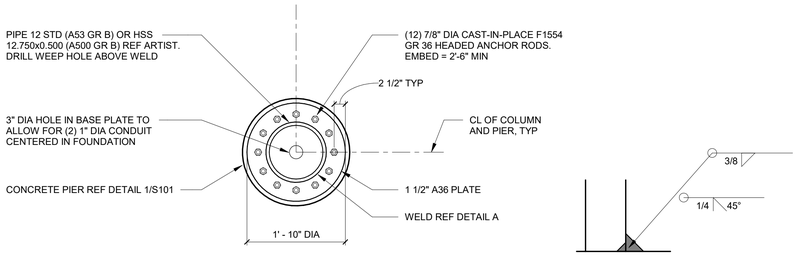
		YEILD	ASTM SPECIFICATION
A.	W, WT SHAPES:	50 KSI	A992
B.	BARS, PLATES, CHANNELS, ANGLES:	36 KSI	A36
C.	SQUARE, RECTANGULAR HSS:	46 KSI	A500, GRADE B
D.	ROUND HSS:	42 KSI	A500, GRADE B
E.	STRUCTURAL STEEL PIPE:	35 KSI	A53, GRADE B
F.	ANCHOR RODS:	36 KSI	F1554
G.	ALL-THREAD RODS:	36 KSI	A36
H:	HEADED STUD ANCHORS: 65 KSI TENSILE STRENGTH		A108, GRADES 1010-1020

2. WELDING SHALL MEET ANSI / AWS D1.1, STRUCTURAL WELDING CODE LATEST REVISION. ELECTRODES SHALL BE 70 KSI, LOW HYDROGEN.
3. PROVIDE DOUBLE NUTS AND DOUBLE WASHERS FOR STEEL COLUMN ANCHOR BOLTS TO ALLOW FOR ADJUSTMENT IN BASE PLATE ELEVATION. PROVIDE 1 1/2 INCH NON-SHRINK GROUT UNDER BASE PLATE AFTER ERECTION. USE 2 1/2 INCH NON-SHRINK GROUT WHEN COLUMN ANCHOR BOLTS ARE 1 1/4 INCH DIAMETER OR LARGER. NON-SHRINK GROUT SHALL BE NON-METALLIC WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING THE COSTS FOR ALL MISCELLANEOUS STEEL SHOWN IN THE CONTRACT DOCUMENTS. THESE COSTS SHALL INCLUDE, BUT ARE NOT LIMITED TO, MISCELLANEOUS STEEL ITEMS SHOWN ON THE STRUCTURAL, ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND IN THE SPECIFICATIONS.
5. AT ALL GALVANIZED OR PAINTED STEEL MEMBERS WITH FIELD WELDED CONNECTIONS, REMOVE GALVANIZING, PAINT OR PRIMER PRIOR TO FIELD WELDING AS REQUIRED. AFTER WELDING IS COMPLETE AND INSPECTOR APPROVED, PREPARE AND REPAINT THE FRAMING SURFACES.

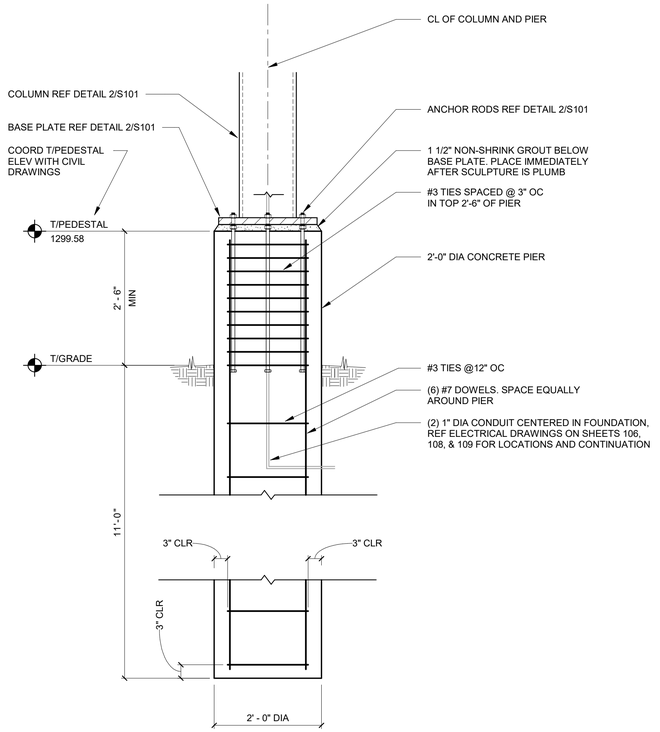
DESIGN PARAMETERS

1. CODES AND STANDARDS:
   A. BUILDING CODE: IBC 2018
   B. RISK CATEGORY: I
   C. DESIGN LOADS PER ASCE 7-16
2. WIND DESIGN DATA
   A. BASIC WIND SPEED: V = 104 MILES/HOUR
   B. WIND EXPOSURE: C
   C. DESIGN PRESSURE: 31.5 PSF (LRFD), 18.3 PSF (ASD)

GC TO CONTACT ARTIST FOR CASTING TEMPLATE. ARTIST SHALL BE ONSITE TO CONFIRM FINAL LOCATIONS PRIOR TO SETTING ANCHOR BOLTS AND CASTING CONCRETE.



2 BASE PLATE DETAIL
3/4" = 1'-0"



1 PIER DETAIL
3/4" = 1'-0"

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STEVEN M. FREY LICENSED 14745 KANSAS PROFESSIONAL ENGINEER
2024-01-08

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COMMERCE STREET & ST. FRANCIS AVENUE IMPROVEMENTS FROM WATERMAN TO KELLOGG

WICHITA, KANSAS

REVISIONS

MARK	DATE	DESCRIPTION

SCALE:
DATE: JANUARY 8, 2024
DESIGNED BY:
DRAWN BY:
CHECKED BY:

SHEET TITLE:
ART INSTALLATION FOUNDATION DETAILS

SHEET NO.
26

SHEET 26 OF 163