GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.
2. CONSTRUCTION SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
3. THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO 2018 INTERNATIONAL BUILDING CODE, (IBC 2018).
5. THE CONTRACTOR SHALL COORDINATE ANY ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS W/ THE STRUCTURAL DRAWINGS TO VERIFY ALL WALL, COLUMN, SLAB LOCATIONS, THICKNESSES, DIMENSIONS, AND PIPING THAT MAY BE REQUIRED.
6. THE CONTRACTOR SHALL COORDINATE THE PLACEMENT OF FOOTINGS, COLUMNS, SLABS, WALLS, SHAFTS, ETC., W/ ALL SUBCONTRACTORS INVOLVED.
7. USE CURRENT EDITION OF ALL REFERENCED PUBLICATIONS. ACI, ASTM, CRSI, ETC.
8. CONTRACTOR SHALL LOCATE ALL UTILITIES IN FIELD PRIOR TO BEGINNING CONSTRUCTION.
9. CONTRACTOR SHALL VERIFY ALL CLEARANCE REQUIREMENTS PRIOR TO BEGINNING CONSTRUCTION.

FOUNDATION NOTES:

1. TERMINATE ALL SLAB POURS WITH A CONSTRUCTION JOINT.
2. ALL VERTICAL DOWELS SHALL BE PLASTIC TIPPED PER OSHA REQ. FOR FALL PROTECTION DURING CONSTRUCTION.
3. ALL CONTINUOUS FOOTING REINFORCEMENT SHALL BE DEVELOPED INTO ADJACENT FOOTINGS AND AROUND CORNERS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE BRACING FOR STRUCTURES TO INSURE STABILITY DURING ALL STAGES OF CONSTRUCTION. THE STRUCTURES AND FOUNDATIONS ARE DESIGNED FOR COMPLETED CONDITION ONLY. THEREFORE, ADDITIONAL SUPPORT MAY BE REQUIRED TO MAINTAIN STABILITY OF THE STRUCTURE BEFORE CONSTRUCTION IS COMPLETED.
5. FOUNDATION EXCAVATIONS SHALL NOT REMAIN OPEN OR BE SUBJECT TO RAINFALL. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT SUCH AN OCCURRENCE.

CODES AND SPECIFICATIONS:

BUILDING CODE:

INTERNATIONAL BUILDING CODE 2018 (IBC 2018)

CODES AND SPECIFICATIONS:

ASCE7–16, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

AISC MANUAL OF STEEL CONSTRUCTION 15TH EDITION

ANSI/AISC 360–16, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS

ACI 318–14, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

TMS 402/602–16, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES

DESIGN LOAD DATA:

DEAD LOADS: ROOF = 2.00 PSF
COLLATERAL LOAD = 1.0 PSF

LIVE LOADS: FLOOR LOAD = 125 PSF
ROOF LOAD = 20 PSF

WIND LOAD DESIGN DATA:

WIND LOAD RISK CATEGORY II
WIND EXPOSURE C
BASIC WIND SPEED PER ASCE7–16 . . . . . 105 MPH

SEISMIC DESIGN DATA:

SHORT PERIOD ACCELERATION Ss = 0.457
LONG PERIOD ACCELERATION Sl = 0.112
SEISMIC RISK CATEGORY GROUP II
SEISMIC DESIGN CATEGORY C
SITE CLASS D
RESPONSE MODIFICATION FACTOR R= 3.0
DEFLECTION AMPLIFICATION FACTOR Cd= 3.0

FOOTING ALLOWABLE SOIL BEARING PRESSURE:

MAT, SPREAD, AND CONTINUOUS WALL FOOTINGS. . 1500 PSF (CONTRACTOR TO VERIFY)
ALL FOOTINGS MUST REST ON UNDISTURBED SOIL OR ENGINEERED COMPACTED FILL.
(CONTRACTOR SHALL CONFIRM PRIOR TO INSTALLING FOUNDATIONS)

SNOW LOAD DESIGN DATA:

GROUND SNOW LOAD (Pg) . . . . . 10 PSF
SNOW EXPOSURE FACTOR (Ce) 1.00
SNOW LOAD IMPORTANCE FACTOR 1.00

CONCRETE AND RELATED NOTES:

1. SUBMIT CONCRETE MIX DESIGN TO ENGINEER OF RECORD FOR APPROVAL, A MINIMUM OF FOURTEEN DAYS PRIOR TO PLACEMENT. MIX DESIGN SHALL INCLUDE PROPORTIONS OF ALL INGREDIENTS TO INCLUDE ALL ADMIXTURES, AGGREGATE GRADUATIONS AN TYPE, RESULTS OF STRENGTH, SLUMP, AND AIR CONTENT TESTS, CERTIFICATES OF COMPLIANCE WITH ASTM STANDARDS FOR ADMIXTURES, WATER CEMENT RATIO, AND UNIT WEIGHT OF CONCRETE. PROPORTION CONCRETE BY LABORATORY TRIAL BATCHES IN ACCORDANCE WITH ACI 316. READY MIX SUPPLIER MAY PROPORTION BY FIELD EXPERIENCE PER ACI 318. FLY ASH CONTENT SHALL NOT EXCEED 20% OF TOTAL WEIGHT OF CEMENT PLUS FLY ASH.
2. ALL CONCRETE SHALL USE TYPE 1 CEMENT IN ACCORDANCE WITH ASTM C150 AND AGGREGATE CONFORMING TO ASTM C143 NUMBER 57 OR 67.
3. ALL CAST IN PLACE CONCRETE, SHALL BE NORMAL WEIGHT AND DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH (F'c) OF THE FOLLOWING:
   PIERS, GRADE BEAMS, AND SLABS–ON–GRADE = 3500 PSI
4. TOLERANCES FOR CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 117.
5. REINFORCING STEEL SHALL HAVE A YIELD STRENGTH OF 60,000 PSI.
6. CONSTRUCTION SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318) AND SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301) AND IN ADDITION SHALL COMPLY WITH ALL LOCAL LAWS AND ORDINANCES. WHERE CONFLICTING REQUIREMENTS OCCUR, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
7. CONCRETE AND REINFORCING STEEL SHALL BE AS PER ACI 318 AND ACI 301. TESTING OF CONCRETE TO BE IN ACCORDANCE W/ ACI 301 BY AN INDEPENDENT TESTING AGENCY AT CONTRACTORS EXPENSE.
8. CONDUCT SLUMP TEST IN ACCORDANCE WITH ASTM C 143. MAXIMUM SLUMP OF POURED IN PLACE CONCRETE SHALL NOT EXCEED:
   FOOTINGS, SLABS = 4"
9. SUBMIT ALL TEST RESULTS TO ENGINEER AND CONTRACTOR. ANY CONCRETE NOT IN CONFORMANCE WITH THE REQUIREMENTS LISTED HEREIN SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
10. CURE CONCRETE A MINIMUM OF SEVEN DAYS IN ACCORDANCE WITH ONE OF THE METHODS LISTED IN ACI 301.
11. MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT IN ACCORDANCE WITH ACI 318, CHAPTER 20, TABLE 20.6.1.3.1 MINIMUM COVER:

    CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.....3".
    EXPOSED TO EARTH OR WEATHER: #5 OR SMALLER.....1 1/2".
    #6 OR LARGER.....2".
    NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH GROUND....3/4"
12. PROVIDE STRUCTURAL ENGINEER SHOP DRAWINGS DETAILING REINFORCING STEEL, PRIOR TO FABRICATION, FOR APPROVAL. DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL CONFORM TO DETAILS AND DETAILING OF CONCRETE REINFORCING ACI 315, CRSI MANUAL OF STANDARD PRACTICE, AND CRSI PLACING REINFORCING BARS.
13. BAR SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES IN ACCORDANCE WITH ACI 318. SEE SCHEDULE BELOW.
14. REINFORCING BAR HOOKS SHALL BE ACI STANDARD 90–DEGREE HOOKS IN ACCORDANCE WITH ACI 318. SEE SCHEDULE BELOW.

REINF. DEVELOPMENT SCHEDULE

Bar	Tension Ld	Lap Splice(Class B)	Hooked Lhd
#3	17"	22"	7"
#4	22"	29"	8"
#5	28"	36"	10"
#6	33"	43"	12"

TABLE VALUES BASED ON F'c=3000 psi CONCRETE
FOR F'c=4000 PSI MULTIPLY LENGTHS BY 0.87

STEEL AND ANCHOR ROD NOTES:

1. CONTRACTOR SHALL VERIFY ALL BUILDING ANCHOR BOLT LOCATIONS WITH FINAL METAL BUILDING ERECTION PLANS (BLDG MFR PREMIER BUILDING SYSTEMS, INC.).
2. FOR POST–INSTALLED ANCHORS AT BUILDING SUPPORT COLUMNS, USE HILTI KWIK BOLT TZ CARBON STEEL EXPANSION ANCHORS. USE 1/2" DIAMETER ANCHORS WITH EFFECTIVE EMBEDMENT OF 2".

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Drawing Description.....
STRUCTURAL
FOUNDATION
GENERAL NOTES

REVISIONS

No.	Date
0	CONSTRUCTION ISSUE 11/17/2023

Plot Scale 1/8" = 1'–0"
Drn. JT
Appd. JCT
Project No. 23025
Date 11/17/2023
Sh. No. 1
of 5

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