STRUCTURAL GENERAL NOTES AND DESIGN DATA

DESIGN DATA (IBC 1603.1)

CODES: IBC 2021 (REFERENCE); STRUCTURAL DESIGN BASIS AS THE DESIGN STATES IT: IBC 2021 / ASCE 7-16 / ACI 318-19 / NDS 2018

RISK CATEGORY: II (TABLE 1604.5)

FLOOR LIVE LOADS: DWELLING UNITS 40 PSF (TABLE 1607.1 MIN. 40); UPPER CORRIDORS 40 PSF (TABLE 1607.1 MIN. 40); FIRST-FLOOR CORRIDORS 100 PSF (TABLE 1607.1 MIN. 100); PARKING 40 PSF (TABLE 1607.1 ITEM 15); RETAIL 100 PSF (TABLE 1607.1 ITEM 34); COURTYARD 100 PSF (TABLE 1607.1 ITEM 37); MECHANICAL NOT PROVIDED — BY OTHERS; FOUNDATION LIVE LOAD FACTOR 0.5

ROOF LIVE LOAD: 20 PSF (TABLE 1607.1 MIN. 20)

SNOW: GROUND SNOW LOAD PG NOT PROVIDED — BY OTHERS; PF NOT PROVIDED — BY OTHERS; DRIFT NOT PROVIDED — BY OTHERS

WIND: V NOT PROVIDED — BY OTHERS; VASD NOT PROVIDED — BY OTHERS; RISK CATEGORY II; EXPOSURE B (ASSUMPTION); INTERNAL PRESSURE COEFFICIENT NOT PROVIDED — BY OTHERS; COMPONENT AND CLADDING PRESSURES NOT PROVIDED — BY OTHERS

SEISMIC: RISK CATEGORY II; IE 1.0; SS 0.95; S1 0.43; SITE CLASS D; SDS 0.74; SD1 0.52; SDC D; SFRS LIGHT-FRAME WOOD SHEAR WALLS OVER CONCRETE SHEAR WALLS; V 757.8 KIPS; CS 0.1138; R 6.5 (WOOD WALLS); ELF (ASCE 7-16 SEC 12.8)

SOIL BEARING: 2000 PSF (FIXTURE; REPORT NONE — FIXTURE)

FLOOD DESIGN DATA: NOT PROVIDED — BY OTHERS

SPECIAL LOADS: ROOFTOP PV DEAD LOAD 5.0 PSF; MECHANICAL AREAS LIVE NOT PROVIDED — BY OTHERS

RAINFALL INTENSITY I: NOT PROVIDED — BY OTHERS

DEAD LOADS (ENGINE ASSEMBLY TAKEOFF): PODIUM 98, RESIDENTIAL 43, ROOF 31 PSF

STRUCTURAL SYSTEMS

STRUCTURAL SYSTEMS: CAST IN PLACE CONCRETE; POST TENSIONED CONCRETE; SHALLOW FOUNDATIONS; WOOD LIGHT FRAME SFRS; PREFABRICATED FLOOR TRUSSES; AUTOMATIC SPRINKLER; EMERGENCY STANDBY POWER; ELECTRICAL EQUIPMENT; NONSTRUCTURAL COMPONENTS; FIRE RESISTANCE RATED ASSEMBLIES

FLOOR VIBRATION SCREEN

FLOOR VIBRATION FT-1 (24.9 FT): FIRST MODE 3.72 HZ AT THE L/360 MINIMUM STIFFNESS UNDER 40 PSF, MASS 43 PSF DEAD; SCREEN 7 TO 10.4 HZ -- RESONANT RESPONSE ANALYSIS INDICATED; RESIDENTIAL ACCEPTANCE CRITERION NOT PROVIDED — BY OTHERS

FLOOR VIBRATION FT-2 (24.9 FT): FIRST MODE 3.72 HZ AT THE L/360 MINIMUM STIFFNESS UNDER 40 PSF, MASS 43 PSF DEAD; SCREEN 7 TO 10.4 HZ -- RESONANT RESPONSE ANALYSIS INDICATED; RESIDENTIAL ACCEPTANCE CRITERION NOT PROVIDED — BY OTHERS

ALL STRUCTURAL SIZES ARE SCHEMATIC. FINAL DESIGN, SIZING AND DETAILS BY THE STRUCTURAL ENGINEER OF RECORD.
POST-TENSIONED PODIUM SLAB: DESIGN AND PRESTRESS BY THE STRUCTURAL ENGINEER OF RECORD.

STATEMENT OF SPECIAL INSPECTIONS (IBC CHAPTER 17): SECTION (SYSTEM): ITEM -- FREQUENCY -- STATUS

TABLE 1705.3 ITEM 1 (CAST IN PLACE CONCRETE): REINFORCEMENT AND PRESTRESSING TENDON PLACEMENT -- PERIODIC -- REQUIRED

TABLE 1705.3 ITEM 2 (CAST IN PLACE CONCRETE): REINFORCING BAR WELDING -- PERIODIC -- NOT PROVIDED — BY OTHERS

TABLE 1705.3 ITEM 3 (CAST IN PLACE CONCRETE): ANCHORS CAST IN CONCRETE -- PERIODIC -- REQUIRED

TABLE 1705.3 ITEM 4 (CAST IN PLACE CONCRETE): ANCHORS POST-INSTALLED IN HARDENED CONCRETE -- PERIODIC -- NOT PROVIDED — BY OTHERS

TABLE 1705.3 ITEM 5 (CAST IN PLACE CONCRETE): REQUIRED DESIGN MIX -- PERIODIC -- REQUIRED

TABLE 1705.3 ITEM 6 (CAST IN PLACE CONCRETE): STRENGTH SPECIMENS, SLUMP, AIR AND TEMPERATURE -- CONTINUOUS -- REQUIRED

TABLE 1705.3 ITEM 7 (CAST IN PLACE CONCRETE): CONCRETE PLACEMENT -- CONTINUOUS -- REQUIRED

TABLE 1705.3 ITEM 8 (CAST IN PLACE CONCRETE): CURING TEMPERATURE AND TECHNIQUES -- PERIODIC -- REQUIRED

TABLE 1705.3 ITEM 13 (CAST IN PLACE CONCRETE): IN-SITU STRENGTH BEFORE STRESSING AND BEFORE REMOVING SHORES AND FORMS -- PERIODIC -- REQUIRED

TABLE 1705.3 ITEM 14 (CAST IN PLACE CONCRETE): FORMWORK SHAPE, LOCATION AND DIMENSIONS -- PERIODIC -- REQUIRED

TABLE 1705.3 ITEM 9A (POST TENSIONED CONCRETE): APPLICATION OF PRESTRESSING FORCES -- CONTINUOUS -- REQUIRED

TABLE 1705.3 ITEM 9B (POST TENSIONED CONCRETE): GROUTING OF BONDED PRESTRESSING TENDONS -- CONTINUOUS -- NOT PROVIDED — BY OTHERS

TABLE 1705.6 ITEM 1 (SHALLOW FOUNDATIONS): MATERIALS BELOW SHALLOW FOUNDATIONS -- PERIODIC -- REQUIRED

TABLE 1705.6 ITEM 2 (SHALLOW FOUNDATIONS): EXCAVATION DEPTH AND MATERIAL -- PERIODIC -- REQUIRED

TABLE 1705.6 ITEM 3 (SHALLOW FOUNDATIONS): COMPACTED FILL CLASSIFICATION AND TESTING -- PERIODIC -- NOT PROVIDED — BY OTHERS

TABLE 1705.6 ITEM 4 (SHALLOW FOUNDATIONS): FILL PLACEMENT, DENSITIES AND LIFTS -- CONTINUOUS -- NOT PROVIDED — BY OTHERS

TABLE 1705.6 ITEM 5 (SHALLOW FOUNDATIONS): SUBGRADE BEFORE FILL -- PERIODIC -- NOT PROVIDED — BY OTHERS

1704.2.5 (PREFABRICATED FLOOR TRUSSES): FABRICATION OF FLOOR TRUSSES FT-1 -- DURING FABRICATION -- REQUIRED

1705.5.2 (PREFABRICATED FLOOR TRUSSES): TRUSS RESTRAINT AND BRACING, FT-1 -- PER SECTION -- NOT REQUIRED

1704.2.5 (PREFABRICATED FLOOR TRUSSES): FABRICATION OF FLOOR TRUSSES FT-2 -- DURING FABRICATION -- REQUIRED

1705.5.2 (PREFABRICATED FLOOR TRUSSES): TRUSS RESTRAINT AND BRACING, FT-2 -- PER SECTION -- NOT REQUIRED

1705.5.1 (WOOD LIGHT FRAME SFRS): HIGH-LOAD DIAPHRAGMS -- PER 1704.2 -- NOT REQUIRED

1705.13.2 (WOOD LIGHT FRAME SFRS): SEISMIC FASTENING OF WS-1 (8D @ 6/12) -- PERIODIC -- NOT REQUIRED

1705.13.2 (WOOD LIGHT FRAME SFRS): SEISMIC FASTENING OF WS-2 (8D @ 4/12) -- PERIODIC -- REQUIRED

1705.13.2 (WOOD LIGHT FRAME SFRS): SEISMIC FASTENING OF WS-3 (8D @ 3/12) -- PERIODIC -- REQUIRED

1705.12 (WOOD LIGHT FRAME SFRS): WIND-RESISTANCE FASTENING, ROOF AND WALL COVERING -- PERIODIC -- NOT PROVIDED — BY OTHERS

1705.13.6 (EMERGENCY STANDBY POWER): ANCHORAGE OF EMERGENCY AND STANDBY POWER EQUIPMENT -- PERIODIC -- NOT PROVIDED — BY OTHERS

1705.13.6 (AUTOMATIC SPRINKLER): EQUIPMENT CLEARANCES TO SPRINKLER DROPS AND SPRIGS -- PERIODIC -- REQUIRED

1705.13.6 (ELECTRICAL EQUIPMENT): ANCHORAGE OF OTHER ELECTRICAL EQUIPMENT -- PERIODIC -- NOT REQUIRED

1705.13.5 (NONSTRUCTURAL COMPONENTS): EXTERIOR CLADDING, NONBEARING WALLS AND VENEER -- PERIODIC -- NOT PROVIDED — BY OTHERS

1705.13.4 (NONSTRUCTURAL COMPONENTS): DESIGNATED SEISMIC SYSTEMS -- EXAMINE LABEL, ANCHORAGE AND MOUNTING -- NOT PROVIDED — BY OTHERS

1705.18 (FIRE RESISTANCE RATED ASSEMBLIES): THROUGH-PENETRATION FIRESTOPS AND FIRE-RESISTANT JOINTS -- PER SECTION -- REQUIRED

SHEET NOTES

1. SPECIAL INSPECTIONS: SPECIFIED IN SECTION 01 45 33.
2. STRUCTURAL MATERIALS: SPECIFIED IN SECTIONS 03 30 00, 06 10 00.

NOT PROVIDED — BY OTHERS
APPLICANT / OWNER

CONSULTANTS

STRUCTURAL	NOT PROVIDED — BY OTHERS
CIVIL	NOT PROVIDED — BY OTHERS
MECHANICAL	NOT PROVIDED — BY OTHERS
PLUMBING	NOT PROVIDED — BY OTHERS
ELECTRICAL	NOT PROVIDED — BY OTHERS
LANDSCAPE	NOT PROVIDED — BY OTHERS
FIRE PROTECTION	NOT PROVIDED — BY OTHERS
GEOTECHNICAL	NOT PROVIDED — BY OTHERS

REVIEW

Prepared for review by the design professional of record. Not for construction or permit submission.

PROJECT

Architecture.Engineering — L courtyard study

FICTIONAL STUDY: NO REAL PARCEL
ARCHITECTURE.ENGINEERING — L COURTYARD STUDY
OCCUPANCY R-2, M · CONSTRUCTION NOT PROVIDED — BY OTHERS · STORIES 4

REVISIONS

MARK	DATE	DESCRIPTION

REGISTER

Project	AE-STUDY-L01
Issue	NOT PROVIDED — BY OTHERS
Date	NOT PROVIDED — BY OTHERS
Drawn	NOT PROVIDED — BY OTHERS
Scale	NTS
Phase	CONSTRUCTION DOCUMENTS

OPEN ISSUE

The set's open issue is stated on the cover, G0.01.

STRUCTURAL GENERAL NOTES & LOADS

SHEET

S0.1