

GENERAL NOTES:

- 1. ALL MATERIALS, ASSEMBLIES, FORMS, AND METHOD OF CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF CURRENT NEW JERSEY BUILDING CODE
2. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS, SIZES AND FIELD CONDITIONS BEFORE FABRICATION AND TO BE RESPONSIBLE FOR FIT AND ALIGNMENT OF ALL NEW WORK...
3. ALL WALLS SHALL BE ADEQUATELY BRACED UNTIL THE ENTIRE STRUCTURAL FRAME HAS BEEN INSTALLED AND IS STRUCTURALLY SOUND.

FOUNDATION NOTES:

- 1. FOUNDATION DESIGN IS BASED ON ASSUMED BEARING CAPACITY OF 5,000 PSF.
2. FOUNDATION WALLS ARE NOT DESIGNED AS FREESTANDING WALLS. DO NOT PLACE ANY BACKFILL AGAINST WALLS UNLESS CELLAR AND FIRST FLOOR CONSTRUCTION HAS BEEN COMPLETED, AND HAS REACHED DESIGN STRENGTH.
3. ANY AREA OF WALL BACKFILLED FOR ACCESS MUST BE ADEQUATELY BRACED TO WITHSTAND EARTH PRESSURE AND CONSTRUCTION LOADS.

SITE WORK:

- 1. UN-BRACED EXCAVATIONS SHALL BE SLOPED NO GREATER THAN (2) HORIZONTAL TO (1) VERTICAL OR PER OSHA STANDARDS
2. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE MINIMUM OF 4'-0" BELOW EXTERIOR AND SHALL PROJECT 1'-0" INTO UNDISTURBED VIRGIN SOIL OR ENGINEERED FILL.
3. ALL BEARING STRATA SHALL BE ADEQUATELY DRAINED PRIOR TO PLACING FOUNDATION CONCRETE.

CONCRETE NOTES:

- 1. ALL CONCRETE SHALL BE CONTROLLED STONE CONCRETE COMPLYING ALL ACI 318 BUILDING CODE REQUIREMENTS, OF A MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS OF 5,000 PSI FOR STRUCTURAL SLAB AND COLUMNS.
2. ALL CONCRETE MIX DESIGN SHALL BE PROPORTIONED IN ACCORDANCE WITH SECTION 5.3 (FIELD EXPERIENCE) OR SECTION 5.4 (TRIAL BATCHES) OF ACI.
3. WHEN CONSTRUCTION JOINTS ARE USED IN SLABS, WALLS, OR BEAMS, THEY SHALL BE LOCATED AT POINTS OF MINIMUM SHEAR AND SHALL BE KEVED.

CAST IN PLACE CONCRETE:

- 1. CAST IN PLACE CONCRETE SHALL BE READY MIX PER ASTM C94. THE MIX SHALL BE PROPORTIONED WITH:
a. PORTLAND CEMENT - ASTM C150
b. AGGREGATES - ASTM C33 WITH 0.75 INCH MAXIMUM DIAMETER
c. NO CALCIUM CHLORIDE SHALL BE PERMITTED
d. AIR ENTRAINMENT - ASTM C260
e. WATER REDUCING ADMIXTURE - ASTM C494
f. FLYASH - ASTM C618 CLASS F, 20% MAXIMUM BY WEIGHT
g. BLAST SLAG - ASTM C989, MAX 50%
h. SILICA FUME - ASTM C1240, MAX 10%
i. WATER - CLEAN AND POTABLE

CONCRETE COVER:

THE MINIMUM CLEAR COVER FOR REINFORCEMENT BARS SHALL BE ONE BAR DIAMETER OR THE VALUES TABULATED BELOW, WHICHEVER CONCRETE STRENGTH IN THE FIELD.

Table with 2 columns: Location (Slab-On-Grade, Top Bars, Bottom Bars) and Cover (1", 3")

TIED PIERS (CLEAR DIMENSION TO TIES): SURFACE EXPOSED TO EARTH AND WEATHER 2" OTHER SURFACES 1 1/2"

FOOTING AND GRADE BEAMS: BOTTOM SURFACES 3" SIDES (FORMED) 3" SIDES (PLACED AGAINST EARTH) 3" TOP SURFACE (FOR TOP BARS) 1 1/2"

WALLS: SURFACE EXPOSED TO EARTH 2" SURFACE EXPOSED TO WEATHER 1 1/2"

CONCRETE TESTING:

- 1. OWNER SHALL EMPLOY A TESTING LABORATORY TO CAST AND TEST ONE SET OF 4 CYLINDERS FOR EVERY 50 CUBIC YARDS OF CONCRETE POURED. IF LESS THAN 50 CUBIC YARDS ARE PLACED IN ONE DAY, 4 CYLINDERS SHALL BE CAST. SLUMP TESTS SHALL BE MADE ON EVERY TRUCK (3" MINIMUM, 5" MAXIMUM), CYLINDERS TO BE TESTED AT 7 AND 28 DAYS. SUBMIT 3 COPIES OF TEST RESULTS TO THE ENGINEER.
2. CYLINDERS AND SLUMP TESTS SHALL BE MADE BY THE TESTING LABORATORY OR ONE FAMILIAR WITH THE CORRECT TESTING PROCEDURE.

MASONRY:

- 1. ALL CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO THE THE LATEST EDITION OF NEW JERSEY STATE INTERNATIONAL BUILDING CODE AND THE "NATIONAL CONCRETE MASONRY ASSOCIATION" (NCMA) SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY, AND TO THE LATEST EDITION OF ACI 530. "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES".
2. HOLLOW LOAD BEARING UNITS SHALL CONFORM TO ASTM C90, NORMAL WEIGHT, TYPE I WITH A MINIMUM NET COMPRESSIVE UNIT STRENGTH OF 1900 PSI. (NET AREA COMPRESSIVE MASONRY STRENGTH fm=1500 PSI.
3. GROUT SHALL BE PLACED FULL HEIGHT IN ALL CELLS, BOTH VERTICALLY AND HORIZONTALLY WHICH CONTAIN REINFORCING. CONSOLIDATE GROUT IMMEDIATELY AFTER PLACING. MECHANICALLY CONSOLIDATE ALL GROUT PLACED IN LIFTS OVER 12" TALL.

BRICK VENEER:

- 1. ALL BRICK VENEER CONSTRUCTION TO BE IN ACCORDANCE WITH ACI 530 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", THE BRICK INSTITUTE OF AMERICA AND 2015 IBC REQUIREMENTS.
a. VENEER BRICK ASTM C216, GRADE SW
b. MORTAR ASTM C270, TYPE S EXTERIOR OR BELOW GRADE
c. ASTM C270, TYPE N OR S EXTERIOR ABOVE GRADE
2. BRICK VENEER WITH A MAXIMUM WEIGHT OF 40 PSF SHALL BE ANCHORED IN ACCORDANCE WITH ACI 530 SECTION 6.2.2.5. MAINTAIN A MINIMUM SPACING OF 1" BETWEEN THE INSIDE FACE OF VENEER AND OUTSIDE FACE OF SOLID SHEATHING.

SPECIAL NOTES REGARDING THE BRICK VENEER:

- 1. THE WOOD PORTIONS OF THIS BUILDING HAVE BEEN DESIGNED WITH UP TO 4 STORIES OF BRICK VENEER. DUE TO THE NATURE OF THE MATERIALS BEING USED, THIS CAN LEAD TO LONG TERM MAINTENANCE ISSUES, SETTLEMENT ISSUES, AND LEAKAGE ISSUES. IT IS IMPERATIVE THAT ALL PARTIES TAKE THE PROPER CARE TO MINIMIZE THE RISKS ASSOCIATED WITH THIS WORK.
2. DO NOT INSTALL BRICK VENEER UNTIL THE BUILDING HAS BEEN FULLY ENCLOSED AND LOADED WITH DRYWALL IN ORDER TO REDUCE THE LONG TERM SETTLEMENT.

POST INSTALLED ANCHORS:

- 1. ALL DRILLED HOLES SHALL BE THOROUGHLY CLEANED, INSPECTED, AND INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. WE RECOMMEND HILTI "SAFE SET" OR SIMPSON "SPEED CLEAN NDS" SYSTEM WITH HOLLOW DRILL BIT TO ENSURE PROPER INSTALLATION.
2. SPACING AND EDGE DISTANCE OF CONNECTIONS ARE CRITICAL TO ENSURE PROPER STRENGTH. FOLLOW DETAIL'S. CONTACT SER FOR ANY UNCLEAR AREAS.
3. EXPANSION ANCHORS INSTALLED IN CONCRETE OR MASONRY SHALL BE INSTALLED SUCH THAT THE APPLIED SHEAR FORCES ACT THROUGH THE BOLT SHAFT, NOT THE THREADS.

TABLE-1: LOADING SCHEDULE. Table with columns: COMPONENT, AREA, CELLAR, 1ST FLOOR, 2ND FLOOR, 3RD FLOOR, 4TH FLOOR, ATTIC/ROOF. Rows include FINISH, SHEATHING, FRAMING, CEILING, MECH. & ELECT., ROOFING & INSUL., MIS., TOTAL DEAD LOAD, LIVE LOAD, TOTAL LOAD.

Table with 2 columns: CORRIDOR LIVE LOAD (100 PSF), STAIRS LIVE LOAD (100 PSF), ROOF CONCENTRATED LIVE LOAD (300 LBS)

CODES AND STANDARDS:

THE 2021 OR THE LATEST EDITION OF THE FOLLOWING CODES AND STANDARDS SHALL APPLY TO THE DESIGN, CONSTRUCTION AND QUALITY CONTROL OF ALL WORK PERFORMED ON THE PROJECT.

- a. UNIFORM CONSTRUCTION CODE OF NEW JERSEY
b. INTERNATIONAL BUILDING CODE, NEW JERSEY EDITION
c. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-19) AMERICAN CONCRETE INSTITUTE
d. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7-22) AMERICAN SOCIETY OF CIVIL ENGINEERS
e. THE "NATIONAL CONCRETE MASONRY ASSOCIATION" (NCMA) SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY
f. ACI 530. "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"

ROOF SNOW LOAD. Table with 2 columns: Load Type (GROUND SNOW LOAD, SNOW LOAD IMPORTANCE FACTOR, THERMAL FACTOR, EXPOSURE FACTOR, FLAT ROOF SNOW LOAD) and Value (51 PSF, 1.0, 1.0, 1.0, 35 PSF)

WIND LOAD. Table with 2 columns: Wind Type (BASIC WIND SPEED, STRUCTURAL OCCUPANCY CATEGORY, WIND IMPORTANCE, WIND EXPOSURE) and Value (114 MPH, II, 1.15, B)

COMPONENT AND CLADDING. Table with 2 columns: Component (WIND PRESSURE ZONE 4, WIND PRESSURE ZONE 5) and Value (33 PSF, 39 PSF)

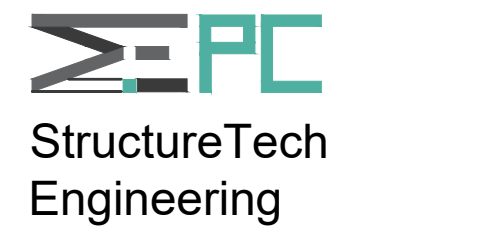
SEISMIC LOAD (ASCE 7-16 STANDARD). Table with 2 columns: Seismic Type (SEISMIC IMPORTANCE, SEISMIC OCCUPANCY CATEGORY, MAPPED SPECTRAL RESPONSE ACCELERATIONS AT SHORT PERIOD, AT 1 SECOND PERIOD, SPECTRAL RESPONSE COEFFICIENTS, SDs, SD1, SEISMIC DESIGN CATEGORY, SITE CLASS, LATERAL RESISTING SYSTEM, R.C. SHEAR WALLS & BUILDING FRAMING SYSTEM, RESPONSE MODIFICATION COEFFICIENT(S), DESIGN BASE SHEAR(S), ANALYSIS - EQUIVALENT LATERAL FORCE PROCEDURE) and Value (I, II, 0.281g, 0.051g, 0.210g, 0.071g, B, D, 5, 250 KIPS)

DEFLECTION CRITERIA. Table with 2 columns: Criterion (LONG TERM DEFLECTION, LIVE LOAD DEFLECTION) and Value (L/240, L/360)



OWNER / APPLICANT:

STRUCTURAL ENGINEER:



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Table with 3 columns: No., Date, Description. Contains project details like PROJECT ADDRESS, BLOCK, LOTS, DRAWING NAME.

PROJECT ADDRESS: 108-114 NORTH 7TH STREET, PATERSON, NJ, BLOCK: 414, LOTS: 1 & 21, DRAWING NAME:

GENERAL NOTES - I

FOUNDATION SET table with columns: BLDG DEPT REF.#, SCALE, DATE, DRAWING #. Includes project details and a professional engineer seal for Omar Elsharif.

PROJECT #:







