

consultants



client



THE SOUTH CAROLINA
DEPARTMENT OF
ADMINISTRATION
State Project #D50-6037-PD

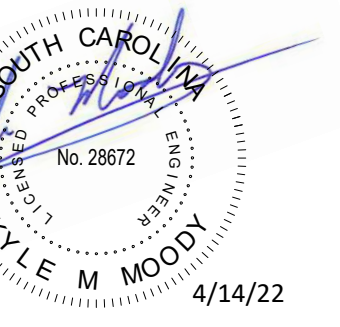
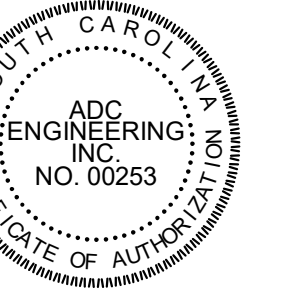
project name

COLUMBIA MILLS ROOF
REPLACEMENT & ATRIUM ROOF/
WINDOW REPLACEMENT

A/E project number (GMKA/ADC)

20058.01 / 21023

seals/signature

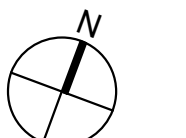
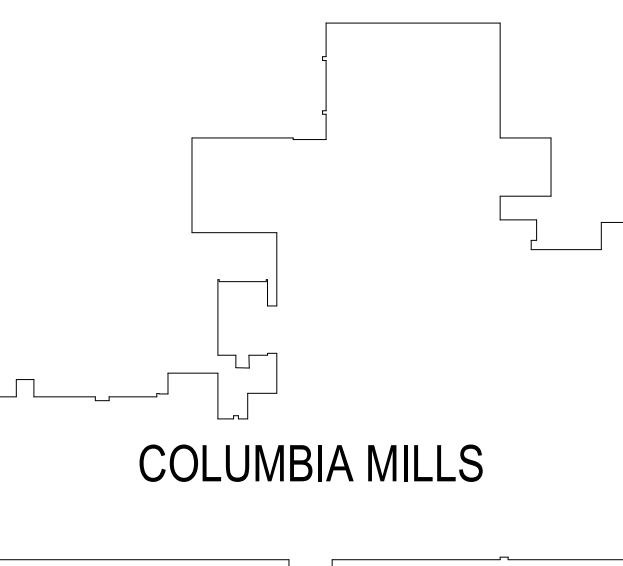


issued for
CONSTRUCTION DOCUMENTS

date
APRIL 14, 2022

number	item	date

key plan



sheet title
GENERAL NOTES

sheet number

S0.1

drawn by KMM
checked by JBJ

STRUCTURAL DESIGN CRITERIA

DESIGN BASED ON THE FOLLOWING CODES:
INTERNATIONAL BUILDING CODE (IBC) 2018
AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) 7-16 - MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES

- FOUNDATION DESIGN VALUES:
ALLOWABLE BEARING CAPACITY 2000 PSF (ASSUMED)
- GRAVITY LOAD DESIGN VALUES:
FLOOR LIVE LOADS: (1ST FLOOR)
CORRIDORS 100-PSF
LOBBY 100-PSF
RESTROOMS 100-PSF
ROOF LIVE LOADS:
LOW-SLOPED ROOF 20-PSF
SLOPING ROOF 20-PSF
GROUND SNOW LOADS:
SNOW 10-PSF
- DEAD LOADS:
ACTUAL MATERIAL WEIGHTS PER ASCE 7-16. SEE ARCHITECTURAL DRAWINGS FOR ROOF, WALL, AND FLOOR CONSTRUCTION

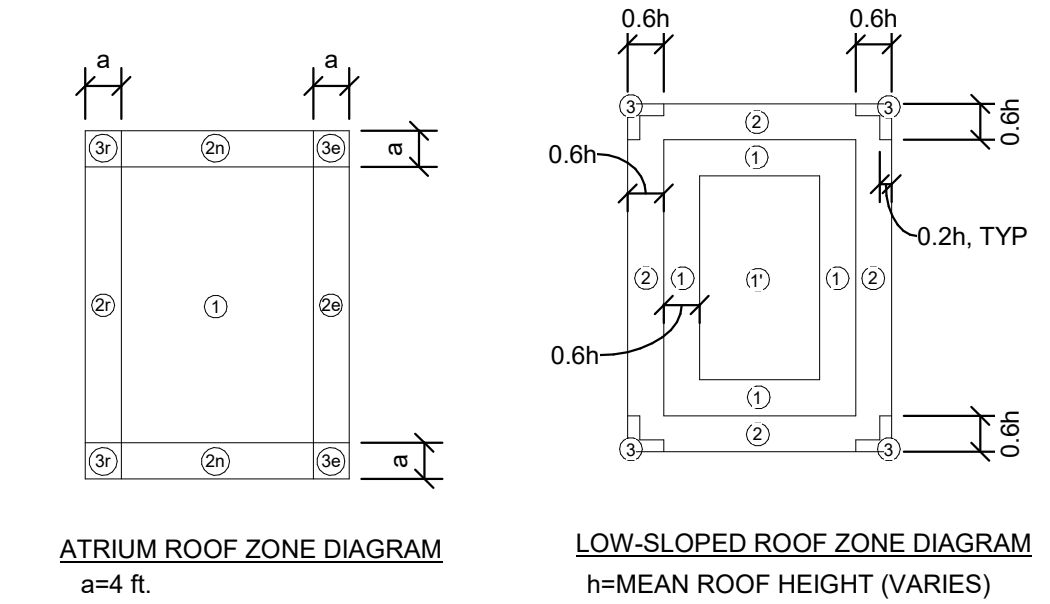
- WIND LOAD DESIGN VALUES:
V = 125 mph (3-sec gust)
BUILDING CATEGORY: "III"
IMPORTANCE FACTOR: I = 1.0
EXPOSURE CATEGORY: "C"
ENCLOSURE CLASSIFICATION: ENCLOSED
DIRECTIONAL FACTOR: Kd = 0.85
TOPOGRAPHIC FACTOR: Kzt = 1.0
VELOCITY EXPOSURE COEFFICIENT: Kz = 1.04
VELOCITY PRESSURE: q = 35.3 psf
INTERNAL PRESSURE COEFFICIENT: Gcpl = +/- 0.18

COMPONENTS & CLADDING PRESSURES: (INTERPOLATION PERMITTED)

- WALLS
WALL ZONE 4 (0-10 TRIBUTARY SQ FT) = +41.7, -45.2 PSF
WALL ZONE 4 (100 TRIBUTARY SQ FT) = +35.6, -39.1 PSF
WALL ZONE 5 (0-10 TRIBUTARY SQ FT) = +41.7, -55.7 PSF
WALL ZONE 5 (100 TRIBUTARY SQ FT) = +35.6, -43.4 PSF

- ATRIUM ROOF
ROOF ZONE 1 (0-10 TRIBUTARY SQ FT) = +21.3, -55.3 PSF
ROOF ZONE 1 (100 TRIBUTARY SQ FT) = +16.9, -43.6 PSF
ROOF ZONE 2a (0-10 TRIBUTARY SQ FT) = +21.3, -55.3 PSF
ROOF ZONE 2a (100 TRIBUTARY SQ FT) = +16.9, -43.6 PSF
ROOF ZONE 2b (0-10 TRIBUTARY SQ FT) = +21.3, -75.9 PSF
ROOF ZONE 2b (100 TRIBUTARY SQ FT) = +16.9, -55.6 PSF
ROOF ZONE 2c (0-10 TRIBUTARY SQ FT) = +21.3, -75.9 PSF
ROOF ZONE 2c (100 TRIBUTARY SQ FT) = +16.9, -55.6 PSF
ROOF ZONE 3a (0-10 TRIBUTARY SQ FT) = +21.3, -75.9 PSF
ROOF ZONE 3a (100 TRIBUTARY SQ FT) = +16.9, -55.6 PSF
ROOF ZONE 3b (0-10 TRIBUTARY SQ FT) = +21.3, -86.3 PSF
ROOF ZONE 3b (100 TRIBUTARY SQ FT) = +16.9, -69.9 PSF

- LOW-SLOPED ROOF
ROOF ZONE 1 (0-10 TRIBUTARY SQ FT) = +18.6, -72.7 PSF
ROOF ZONE 1 (100 TRIBUTARY SQ FT) = +16.0, -58.7 PSF
ROOF ZONE 1' (0-10 TRIBUTARY SQ FT) = +18.6, -41.7 PSF
ROOF ZONE 1' (100 TRIBUTARY SQ FT) = +16.0, -41.7 PSF
ROOF ZONE 2 (0-10 TRIBUTARY SQ FT) = +18.6, -95.8 PSF
ROOF ZONE 2 (100 TRIBUTARY SQ FT) = +16.0, -75.4 PSF
ROOF ZONE 3 (0-10 TRIBUTARY SQ FT) = +16.0, -130.6 PSF
ROOF ZONE 3 (100 TRIBUTARY SQ FT) = +16.0, -89.7 PSF



STRUCTURAL STEEL FRAMING

- ALL STRUCTURAL STEEL FRAMING SHALL CONFORM TO SPECIFICATION SECTION 051200-"STRUCTURAL STEEL FRAMING"
- ALL ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL CONFORM TO SPECIFICATION SECTION 05213 ARCHITECTURALLY EXPOSED STRUCTURAL STEEL FRAMING"
- ALL STRUCTURAL STEEL ERECTION SHALL COMPLY WITH AISC 360-16 AND AISC 303-16.
- CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING OR GUY TO PROVIDE LATERAL SUPPORT OF THE STRUCTURAL STEEL UNTIL THE PERMANENT LATERAL FORCE RESISTING SYSTEM IS COMPLETED.
- THE ERECTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE OWNER'S SPECIAL INSPECTOR FOR PRE-INSTALLATION VERIFICATION OF SLIP CRITICAL BOLT TIGHTENING PROCEDURES.
- FIELD TESTING AND INSPECTION OF STRUCTURAL STEEL MATERIALS AND STRUCTURAL STEEL INSTALLATION SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.

STEEL DECKING

- ALL STEEL DECKING SHALL CONFORM TO SPECIFICATION SECTION 053100-"STEEL DECKING"
- SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS
- ALL DECK IS BASED ON UNSHORED CONSTRUCTION UNLESS NOTED OTHERWISE
- DECK SUPPLIER AND INSTALLER SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED DECK REINFORCING AT DECK OPENINGS AND PENETRATIONS. COORDINATE NUMBER, SIZE AND LOCATION OF OPENINGS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. REINFORCING SHALL INCLUDE, BUT NOT BE LIMITED TO REINFORCING PLATES AND REINFORCING CHANNELS.
- DECK SHOP DRAWINGS IN AREA OF STEEL JOISTS OR ENGINEERED COLD-FORMED METAL TRUSSES SHALL BE COORDINATED WITH APPROVED TRUSS SHOP DRAWINGS. DO NOT SUBMIT DECKING SHOP DRAWINGS FOR THESE AREAS UNTL TRUSS AND/OR JOIST SHOP DRAWINGS HAVE BEEN APPROVED.
- NO ELEMENT (CONDUIT, CEILING, DUCT, PIPING, ETC.) SHALL BE DIRECTLY HUNG FROM STEEL DECKING WITHOUT PRIOR WRITTEN APPROVAL FROM THE EOR.
- FIELD TESTING AND INSPECTION OF STEEL DECKING AND ASSOCIATED INSTALLATION SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.

FIELD WELDING

- ALL FIELD WELDING SHALL CONFORM TO SPECIFICATION SECTION 051200-"STRUCTURAL STEEL FRAMING" FOR WELDING STRUCTURAL STEEL FRAMING"
- ALL FIELD WELDING SHALL CONFORM TO SPECIFICATION SECTION 053100-"STEEL DECKING" FOR WELDING STEEL DECKING
- ALL FIELD WELDING SHALL CONFORM TO SPECIFICATION SECTION 054100-"ENGINEERED COLD FORMED METAL FRAMING" FOR WELDING COLD FORMED MEMBERS
- ALL FIELD WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE-STEEL" AND AWS D1.3, "STRUCTURAL WELDING CODE-SHEET STEEL", LATEST EDITIONS.
- ALL FIELD WELDING SHALL BE IN STRICT ACCORDANCE WITH WRITTEN WELD PROCEDURE (WPS) FOR THE GIVEN WELD CONDITION
- REPAIR ALL DAMAGED GALVANIZING, PRIMER OR PAINT ONCE WELDING IS COMPLETE
- ELECTRODES SHALL BE STORED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
- ALL PERSONNEL COMPLETING FIELD WELDS SHALL BE CERTIFIED IN ACCORDANCE WITH AWS TO PERFORM THE GIVEN WELD.
- FIELD TESTING AND INSPECTION OF FIELD WELDING MATERIALS AND FIELD WELDING SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.

COLD-FORMED STEEL FRAMING

- ALL PERFORMANCE BASED COLD-FORMED STEEL FRAMING SHALL CONFORM TO SPECIFICATION SECTION 054100-"ENGINEERED COLD-FORMED STEEL FRAMING"
- THE USE OF THE TERM LIGHT GAUGE SHALL BE EQUIVALENT TO COLD-FORMED
- WHERE NOT SPECIFICALLY INDICATED ALL FASTENERS SHALL BE MINIMUM OF #10 SELF DRILLING SCREWS.
- ALL FASTENERS UNDER SHEATHING SHALL HAVE LOW PROFILE HEADS
- ALL MECHANICAL FASTENERS SHALL HAVE A MINIMUM SPACING AND EDGE DISTANCE OF THREE FASTENER DIAMETERS
- ALL MECHANICAL FASTENERS SHALL EXTEND THROUGH CONNECTED MEMBERS BY A MINIMUM OF THREE THREADS
- FRAMER SHALL ENSURE PUNCHOUT ALIGNMENT WHEN USING COLD ROLLED CHANNEL BRIDGING
- DESIGN PERFORMED IN GENERAL ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) SPECIFICATIONS

STRUCTURAL WOOD FRAMING

- ALL ROUGH CARPENTRY SHALL CONFORM TO SPECIFICATION SECTION 061100-"STRUCTURAL WOOD FRAMING"
- ALL PLYS OF MULTI-PLY MEMBERS (DBL, TRPL, ETC.) SHALL BE GLUED TOGETHER WITH WATERPROOF CONSTRUCTION ADHESIVE AND FASTENED WITH (2)ROWS OF 16D "SINKER" NAILS AT 9" O.C. UNO.
- ALL CONNECTIONS FOR WOOD MEMBERS SHALL BE PER IBC 2018 TABLE 2304.10.1 EXCEPT WHERE NOTED OTHERWISE
- ALL CLIPS AND HANGERS SHALL BE INSTALLED WITH MAX NAILS OF NUMBER AND SIZE AS INDICATED IN MANUFACTURER'S CATALOG UNO.
- THE BASIS OF DESIGN PRODUCT IS LISTED FOR ALL METAL FRAMING ANCHORS. CONTRACTOR MAY SUBMIT EQUIVALENT PROPRIETARY CONNECTORS FOR USE SUBJECT TO EOR APPROVAL. SEE SPECIFICATIONS FOR SUBSTITUTION SUBMITTAL REQUIREMENTS.
- WOOD SCREWS SHALL BE INSTALLED USING A LEAD HOLE WITH DIAMETER EQUAL TO 70% OF THE SCREW ROOT DIAMETER. SCREWS SHALL BE INSERTED INTO THE HOLE WITH A TURNING ACTION AND NOT A DRIVING ACTION. THE MINIMUM EMBEDMENT INTO THE MAIN MEMBER FOR WOOD SCREWS SHALL BE SIX TIMES THE SCREW DIAMETER UNO.
- LAG SCREWS SHALL BE INSTALLED USING A LEAD HOLE WITH DIAMETER EQUAL TO 75% OF THE LAG SCREW SHANK DIAMETER AND A CLEARANCE HOLE EQUAL TO 100% OF THE LAG SCREW SHANK DIAMETER. THE LEAD HOLE SHALL BE OF DEPTH EQUAL TO THE EMBEDMENT OF THE LAG SCREW, AND THE CLEARANCE HOLE SHALL BE OF DEPTH EQUAL TO THE LENGTH OF UNTHREADED SHANK. LAG SCREWS SHALL BE INSERTED INTO THE HOLE WITH A TURNING ACTION AND NOT A DRIVING ACTION. THE MINIMUM EMBEDMENT INTO THE MAIN MEMBER FOR LAG SCREWS SHALL BE FOURTIMES THE SCREW DIAMETER UNO.
- STRUCTURAL STEEL PLATES USED FOR CONNECTING ROUGH CARPENTRY SHALL BE PREDRILLED WITH HOLES 1/16" GREATER THAN THE FASTENER DIAMETER FOR FASTENERS 3/8" OR GREATER IN DIAMETER, AND 1/32" GREATER THAN THE FASTENER DIAMETER FOR FASTENERS LESS THAN 3/8" IN DIAMETER.
- ALL BOLTS CONNECTING ROUGH CARPENTRY SHALL HAVE AN ASTM F844 WASHER BENEATH BOTH THE HEAD AND THE NUT.

STRUCTURAL WOOD SHEATHING

- ALL STRUCTURAL WOOD SHEATHING SHALL CONFORM TO SPECIFICATION SECTION 061620-"STRUCTURAL WOOD SHEATHING"
- MINIMUM WIDTH OF SHEATHING PANELS SHALL BE 24" UNLESS NOTED OTHERWISE
- STAGGER SHEATHING JOINTS UNLESS NOTED OTHERWISE
- SPACE PANEL EDGES 1/8" APART
- SEE TYPICAL DETAILS FOR FASTENING REQUIREMENTS FOR SPECIFIC SHEATHING APPLICATIONS

GENERAL NOTES

- STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE ENTIRE SET OF PROJECT DRAWINGS, PROJECT MANUAL, AND ALL SHOP DRAWING SUBMITTALS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND COORDINATING DIMENSIONS, CLEARANCES AND ALL OTHER COORDINATION ISSUES WITH OTHER TRADES.
- IN CASE OF CONFLICT BETWEEN VARIOUS STRUCTURAL DRAWINGS, STRUCTURAL PLANS, OR STRUCTURAL DETAILS THE MORE STRINGENT SHALL GOVERN. THE CONTRACTOR SHALL MAKE ALLOWANCE IN HIS BID FOR THE MORE COSTLY CONDITION.
- IN CASE OF CONFLICT BETWEEN DRAWINGS, DRAWING NOTES, AND SPECIFICATIONS THE MORE STRINGENT SHALL GOVERN. THE CONTRACTOR SHALL MAKE ALLOWANCE IN HIS BID FOR THE MORE COSTLY CONDITION.
- WORK NOT INDICATED ON THE DRAWINGS, BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
- ALL NOTES, DETAILS AND SECTIONS ARE INTENDED TO BE TYPICAL FOR THE GENERAL CONDITIONS INDICATED OR REFERENCED. ALL NOTES, DETAILS AND SECTIONS SHALL APPLY TO ANY SIMILAR SITUATION THROUGHOUT THE ENTIRE PROJECT UNLESS A SEPARATE NOTE, DETAIL OR SECTION IS PROVIDED.
- REVIEW ALL PROJECT DOCUMENTS PRIOR TO FABRICATION AND START OF CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING WITH WORK.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING AND IN PLACE WORK OR UTILITIES DURING CONSTRUCTION
- COORDINATE STRUCTURAL DRAWINGS WITH OTHER CONTRACT DRAWINGS, SPECIFICATIONS, OR SHOP DRAWINGS WHICH MAY AFFECT THE STRUCTURAL WORK
- USE OF REPRODUCED CONTRACT DRAWINGS IN PART OR WHOLE FOR THE PURPOSE OF SHOP DRAWING PREPARATION SHALL NOT RELIEVE THE CONTRACTOR OR SUBCONTRACTOR FROM THE REQUIREMENT TO ACCURATELY LAYOUT, COORDINATE, DETAIL, FABRICATE AND INSTALL A COMPLETE STRUCTURE.
- ALL SUBMITTALS SHALL BE REVIEWED BY THE SUBCONTRACTOR AND CONTRACTOR FOR CONFORMANCE TO THE CONTRACT DOCUMENTS, FOR COMPLETENESS, AND TO RESPOND TO CONTRACTOR COORDINATION RELATED QUESTIONS PRIOR TO SUBMITTING FOR APPROVAL. ALL SHEETS SHALL BE STAMPED AND INITIALED BY THE CONTRACTOR INDICATING SUCH A REVIEW HAS BEEN COMPLETED PRIOR TO ISSUING SUBMITTAL FOR APPROVAL.
- CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL.
- ALL ELEVATIONS INDICATED IN STRUCTURAL DRAWINGS ARE IN REFERENCE TO A GROUND FLOOR FINISHED SLAB ELEVATION OF 0'-0" UNLESS NOTED OTHERWISE. SEE CIVIL FOR GROUND FLOOR FINISHED SLAB ELEVATION.

FOUNDATIONS

- ALL SUBGRADE SHALL BE COMPACTED TO AT LEAST 98% AS TESTED BY A STANDARD PROCTOR AND SHALL BE WITHIN 3% OF OPTIMUM MOISTURE CONTENT
- BACKFILL AND FILL MATERIAL SHALL BE AN APPROVED ENGINEERED FILL AND SHALL BE PLACED IN 8" LIFTS WITH EACH LIFT MEETING THE REQUIREMENTS OF ITEM 1 ABOVE
- PROVIDE ALL MEASURES NECESSARY FOR THE INSTALLATION OF FOUNDATIONS/SLABS INCLUDING BUT NOT LIMITED TO DEWATERING AND SHORING.
- DO NOT INSTALL PLUMBING SLEEVES IN OR THROUGH FOUNDATIONS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS, OR WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.
- PLUMBING RUNS BELOW GRADE SHALL NOT RUN BENEATH AND PARALLEL TO CONTINUOUS FOOTINGS
- ALL REINFORCING STEEL SHALL BE SUPPORTED ON CHAIRS OR BOLSTERS TO PROPER ELEVATION AND SHALL BE SECURELY ANCHORED
- EARTH FORMED FOUNDATIONS ARE PERMITTED IF SUBGRADE IS STABLE ENOUGH TO HOLD THE FACE OF THE EXCAVATION. ALL FOUNDATION SIZES FOR EARTH FORMED FOUNDATIONS SHALL BE INCREASED 1" IN ALL DIRECTIONS
- ALL FOUNDATION EXCAVATIONS SHALL BE DEWATERED PRIOR TO PLACING CONCRETE
- BACKFILL SHALL NOT BE PLACED AGAINST FOUNDATION WALLS UNTIL CONCRETE OR GROUT HAS ACHIEVED 75% OF THE REQUIRED STRENGTH.
- FIELD TESTING AND INSPECTION OF FOUNDATIONS, SUBGRADE MATERIALS AND SUBGRADE PREPARATION SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.

CAST-IN-PLACE CONCRETE

- ALL CAST-IN-PLACE CONCRETE SHALL CONFORM TO SPECIFICATION SECTION 033000-"CAST-IN-PLACE CONCRETE"
- LAP ALL WWM/MWR ONE MESH SPACING PLUS 2" OFFSET AND SECURELY ANCHOR
- ALL CONTINUOUS REINFORCEMENT SHALL BE LAPPED PER SCHEDULES AND DETAILS
- REINFORCEMENT SHALL BE SECURELY ANCHORED IN POSITION. THE CONTRACTOR SHALL PROVIDE ADDITIONAL BARS, STANCHIONS, OR STRIPS TO ANCHOR BARS IN THE PROPER POSITION
- THE DESIGN AND CONSTRUCTION OF FORMS AND SHORES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- QUALIFIED WORKMEN SHALL CONSTANTLY OBSERVE AND ADJUST FORMS AND SHORES AS REQUIRED DURING CONCRETE PLACEMENT
- ALL SHORING SHALL REMAIN IN PLACE UNTIL THE SUPPORTED CONCRETE HAS ATTAINED 75% OF THE REQUIRED 28 DAY COMPRESSIVE STRENGTH
- CONTRACTOR SHALL VERIFY DIMENSIONS AND LOCATIONS OF ALL SLOTS, PIPE SLEEVES, ANCHOR BOLTS, ETC AS REQUIRED FOR ALL TRADES BEFORE CONCRETE IS POURED. THESE ITEMS SHALL BE INSTALLED AND VERIFIED BY THE CONTRACTOR.
- SEE PLUMBING DRAWINGS FOR FLOOR DRAINS
- FOR CONCRETE PADS SEE ARCHITECTURAL AND MECHANICAL DRAWINGS
- FOR EXTERIOR SIDEWALKS AND CURBS SEE CIVIL DRAWINGS
- FOR WATERPROOFING REQUIREMENTS SEE ARCHITECTURAL DRAWINGS
- DOWELS SHALL MATCH WALL REINFORCING UNLESS NOTED OTHERWISE.
- ALL INTERIOR SLABS SHALL HAVE A STEEL TROWELED FINISH UNLESS NOTED OTHERWISE. COORDINATE SLAB FINISH FOR AREAS WITH SPECIALTY FLOOR COVERINGS WITH SPECIFICATIONS AND FINISH SCHEDULE.
- ALL REINFORCING STEEL SHALL BE DETAILED FABRICATED AND INSTALLED IN ACCORDANCE WITH ACI 318-14 AND ACI SP-066 2004.
- PROVIDE THE FOLLOWING CONCRETE CLEAR COVER OVER REINFORCING (UNO):
 - A. FOOTINGS, GRADE BEAMS, TIE BEAMS AND PILE CAPS: 3"
 - B. INTERIOR BEAMS AND COLUMNS: 1"
 - C. EXTERIOR BEAMS AND COLUMNS: 2"
 - D. PEDESTALS: 2"
 - E. STRUCTURAL SLABS ON GRADE:
 - a. 3" BOTTOM
 - b. 3/4" TOP @ INTERIOR SPACES
 - c. 1/2" TOP AT EXTERIOR SPACES
 - F. INTERIOR FORMED ELEVATED SLABS: 3/4" BOTTOM, 3/4" TOP
 - G. EXTERIOR FORMED ELEVATED SLABS: 1 1/2" BOTTOM, 1 1/2" TOP
 - H. SLABS ON DECK: W/M CENTERED IN COVER OVER DECK FLUTES
 - I. SLABS ON GRADE: W/M IN TOP 1/3, REINFORCING STEEL CENTERED
 - J. CONCRETE WALLS: 1 3/4" UNO
- REINFORCEMENT SHALL NOT BE CUT TO ACCOMMODATE THE INSTALLATION OF ANCHORS EMBEDS OR OTHER ITEMS.
- AT CHANGES OF DIRECTION IN CONTINUOUS CONCRETE ELEMENTS PROVIDE CORNER BARS OF SAME SIZE AND SPACING OF HORIZONTAL REINFORCING.
- PLACE CONCRETE PER ACI 318-14. USE INTERNAL MECHANICAL VIBRATION FOR ALL CONCRETE. LIMIT MAXIMUM FREE FALL HEIGHT TO 6'-0" AND TAKE PRECAUTIONS TO AVOID CONCRETE SEGREGATION.
- FIELD TESTING AND INSPECTION OF CONCRETE MATERIALS AND CONCRETE INSTALLATION SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.

POST INSTALLED STRUCTURAL ANCHORS

- ALL POST INSTALLED STRUCTURAL ANCHORS SHALL CONFORM TO SPECIFICATION SECTION 050520-"POST INSTALLED STRUCTURAL ANCHORS"
- NOTED EMBEDMENT DEPTHS ARE FROM FACE OF CMU OR FACE OF CONCRETE
- ALL INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S DATA AND THE ASSOCIATED ICC REPORT.
- ALL PERSONNEL INSTALLING ANCHORS SHALL HAVE ATTENDED INSTALLER TRAINING PER THE SPECIFICATIONS
- FIELD TESTING AND INSPECTION OF POST INSTALLED ANCHOR MATERIALS AND POST INSTALLED ANCHOR INSTALLATION SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.