

GENERAL

- A. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE GOVERNING DESIGN CRITERIA AND BUILDING CODES.
B. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO THE DETAILS PRESENTED, SIMILAR DETAILS SHALL BE USED SUBJECT TO THE APPROVAL OF THE ENGINEER OF RECORD.
C. THE MOST STRINGENT REQUIREMENTS APPLY IN CASE OF CONFLICT BETWEEN SPECIFICATIONS, STANDARDS, CODES, AND DRAWINGS.
D. DRAWINGS ARE NOT TO BE SCALED.
E. FOR ACTUAL ELEVATIONS ON FIRST FLOOR SEE CIVIL ENGINEERS SITE PLAN.
F. SUBMIT WRITTEN REQUESTS TO THE ENGINEER OF RECORD FOR THE APPROVAL OF ANY PROPOSED CHANGE TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, INCLUDING CUTTING, NOTCHING, OR OTHER ALTERATIONS TO ANY STRUCTURAL MEMBER NOT SPECIFICALLY DETAILED IN THE DRAWINGS ARE NOT PERMITTED WITHOUT ENGINEER OF RECORDS WRITTEN AUTHORIZATION. ANY UNAUTHORIZED DEVIATION FROM THE CONTRACT DOCUMENTS, AND CORRECTION THEREOF, IS THE RESPONSIBILITY OF THE CONTRACTOR.
G. VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE ACTUAL FIELD CONDITION AND INFORMATION SHOWN ON THE DRAWINGS BEFORE PROCEEDING WITH WORK.
H. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR THE COMPLETE DESIGN OF THE STRUCTURE. THEY DO NOT INDICATE THE MEANS AND METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED. PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKERS OR THEIR PERSONS DURING CONSTRUCTION.
I. PROVIDE ALL TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL MEMBERS AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION. IMMEDIATELY NOTIFY THE ENGINEER OF RECORD OF ANY CONDITION THAT MAY ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS WITHIN THE STRUCTURE.
J. OBSERVATION VISITS TO THE SITE BY ENGINEER OF RECORD OR REPRESENTATIVES OF THE ENGINEER OF RECORD MAY BE MADE DURING CONSTRUCTION. ANY SUPPORT SERVICES PERFORMED HEREIN SHALL BE DISTINGUISHED FROM INSPECTION AND/OR TESTING SERVICES PERFORMED BY OTHERS AND ARE NOT TO BE CONSTRUED AS SUPERVISION AND/OR MANAGEMENT OF CONSTRUCTION.
K. CONSTRUCTION MATERIALS SHALL NOT BE STACKED ON FLOORS OR ROOFS IN EXCESS OF 20-PSF UNLESS INDICATED ON THE PLANS. AVOID IMPACT WHEN PLACING MATERIALS ON FLOORS OR ROOFS.

- DESIGN CRITERIA:
A. INTERNATIONAL BUILDING CODE 2018
B. ASCE 7-16, MINIMUM DESIGN LOADS FOR BUILDINGS, AND OTHER STRUCTURES
C. AISC 318-14, STRUCTURAL CONCRETE BUILDING CODE
D. AISC MANUAL OF STEEL CONSTRUCTION, 15TH EDITION
E. SERVICEABILITY AND DEFLECTION CRITERIA PER GOVERNING COMPONENT DESIGN STANDARD

DELEGATED ENGINEERING: THE FOLLOWING SYSTEMS REQUIRE DELEGATED ENGINEERING. REVIEW SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.

Table with columns for Design Loading (Roof Live Loads, Roof Dead Loads, Wind Loading) and Seismic Loading (Design Category and Class).

Table with columns for Restisting System (Design Base Shear, Seismic Response Coefficient, etc.) and Seismic Design Category (Basic).

FORCE SUBMITTALS THE FOLLOWING SHOP DRAWINGS AND SUBMITTALS ARE REQUIRED: 1. METAL BUILDING FRAMING ANCHORAGE

EARTHWORK / FOUNDATIONS FOUNDATIONS HAVE BEEN DESIGNED PER THE GEOTECHNICAL REPORT PROVIDED BY BUNNEL LAMMONS ENGINEERING DATED FEBRUARY 20, 2020 [PROJECT NUMBER J19-14474-01]. ALL EARTHWORK/FOUNDATIONS SHALL BE IN ACCORDANCE TO GEOTECHNICAL ENGINEERING REQUIREMENTS.

SECTION 012300 - SUBMITTAL PROCEDURES

- 1.1 DEFINITIONS
A. Action Submittals: Written and graphic information and physical samples that require Engineer's and Construction Manager's responsive action.
B. Informational Submittals: Written and graphic information and physical samples that do not require Engineer's and Construction Manager's responsive action.
1.2 SUBMITTAL ADMINISTRATIVE REQUIREMENTS
A. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.

- PART 2 - PRODUCTS
2.1 SUBMITTAL PROCEDURES
A. General Submittal Procedure Requirements: Prepare and submit submittals required by individual Specification Sections.
B. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.
C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale.
D. Welding Certificates: Prepare written certification that welding procedures and personnel comply with requirements in the Contract Documents.
E. Installer Certificates: Submit written statements on manufacturer's letterhead certifying that installer complies with requirements in the Contract Documents.
F. Manufacturer Certificates: Submit written statements on manufacturer's letterhead certifying that manufacturer complies with requirements in the Contract Documents.
G. Product Certificates: Submit written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.
H. Material Certificates: Submit written statements on manufacturer's letterhead certifying that material complies with requirements in the Contract Documents.
I. Material Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements in the Contract Documents.
J. Product Test Reports: Submit written reports indicating that current product produced by manufacturer complies with requirements in the Contract Documents.
K. Field Test Reports: Submit written reports indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.
2.2 DELEGATED-DESIGN SERVICES
A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required by Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.

- SECTION 014000 - QUALITY REQUIREMENTS (CONTINUED)
PART 1 - GENERAL
1.1 ACTION SUBMITTALS
A. Product Data: For each product.
B. Design Mixtures: For each concrete mixture.
C. Steel Reinforcement Shop Drawings: Placing Drawings that detail location, bending, and placement.
1.2 QUALITY ASSURANCE
A. Manufacturer Qualifications: A firm experienced in manufacturing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
B. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated.
C. Testing Agency Qualifications: An independent agency with the experience and capability to conduct testing and inspecting indicated, as documented according to ASTM E 293, and with additional qualifications specified in individual Sections; and, where required by authorities having jurisdiction, that is acceptable to authorities.
D. Manufacturer's Technical Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to observe and inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.
E. Preconstruction Testing: Where testing agency is indicated to perform preconstruction testing for compliance with specified requirements for performance and test methods, provide the following:
1. Contractor responsibilities include the following:
a. Provide test specimens representative of proposed products and construction.
b. Submit specimens in a timely manner with sufficient time for testing and analyzing results to prevent delaying the Work.
2. Testing Agency Responsibilities: Submit a certified written report of each test, inspection, and similar quality-assurance service to Engineer, through Construction Manager, with copy to Contractor. Interpret test results and inspections and state in each report whether tested and inspected work complies with or deviates from the Contract Documents.

SECTION 014000 - QUALITY REQUIREMENTS (CONTINUED)

- 1.5 QUALITY ASSURANCE
A. General: Qualifications paragraphs in this article establish the minimum qualification levels required; individual Specification Sections specify additional requirements.
B. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
C. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated.
D. Manufacturer's Technical Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to observe and inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.
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- SECTION 033000 - CAST-IN-PLACE CONCRETE (CONTINUED)
PART 1 - GENERAL
1.1 ACTION SUBMITTALS
A. Product Data: For each concrete product.
B. Design Mixtures: For each concrete mixture.
C. Steel Reinforcement Shop Drawings: Placing Drawings that detail location, bending, and placement.
1.2 QUALITY ASSURANCE
A. Manufacturer Qualifications: A firm experienced in manufacturing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
B. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated.
C. Testing Agency Qualifications: An independent agency with the experience and capability to conduct testing and inspecting indicated, as documented according to ASTM E 293, and with additional qualifications specified in individual Sections; and, where required by authorities having jurisdiction, that is acceptable to authorities.
D. Manufacturer's Technical Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to observe and inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.
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2. Testing Agency Responsibilities: Submit a certified written report of each test, inspection, and similar quality-assurance service to Engineer, through Construction Manager, with copy to Contractor. Interpret test results and inspections and state in each report whether tested and inspected work complies with or deviates from the Contract Documents.

- PART 2 - PRODUCTS
2.1 CONCRETE, GENERAL: Comply with the following unless modified by requirements in the Contract Documents: ACI 301 (ACI 301M) and ACI 117 (ACI 117M).
2.2 STEEL REINFORCEMENT
A. Reinforcing Bars: ASTM A 615, Grade 60, deformed.
B. Plain-Steel Welded-Wire Reinforcement: ASTM A 1064/A 1064M, plain, fabricated from as-drawn steel wire into flat sheets.
C. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded-wire reinforcement in place. Manufacture bar supports from steel wire, plastic, or precast concrete according to CRSI's "Manual of Standard Practice."
2.3 CONCRETE MATERIALS
A. Cementitious Materials:
1. Portland Cement: ASTM C 150/C 150M, Type III.
2. Fly Ash: ASTM C 618, Class F or C.
3. Slag Cement: ASTM C 989/C 989M, Grade 100 or 120.
4. Blended Hydraulic Cement: ASTM C 595/C 595M.
B. Normal-Weight Aggregates: ASTM C 330/C 330M, graded.
C. Air-Entraining Admixtures: ASTM C 260/C 260M.
D. Chemical Admixtures: Certified by manufacturer to be compatible with other admixtures and that do not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride.
E. Water: ASTM C 94/C 94M.
2.4 FIBER REINFORCEMENT: Synthetic Micro-Fiber: Micro-fibers engineered and designed for use in concrete, complying with ASTM C 1116/C 1116M, Type III.
2.5 VAPOR RETARDERS: Sheet Vapor Retarder: Polyethylene sheet, ASTM D 4397, not less than 10 mils (0.25 mm) thick.
2.6 Expansion- and Isolation-Joint-Filler Strips: ASTM D 1751, asphalt-saturated cellulosic-fiber or ASTM D 1752, cork or self-expanding cork.
2.7 CONCRETE MIXTURES, GENERAL
A. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301 (ACI 301M).
B. Admixtures: Use admixtures according to manufacturer's written instructions.
2.8 CONCRETE MIXTURES FOR BUILDING ELEMENTS
A. Normal-Weight Concrete:
1. Minimum Compressive Strength, (fc): 4000 psi at 28 days.
2.9 FABRICATING REINFORCEMENT
A. Fabricate steel reinforcement according to CRSI's "Manual of Standard Practice."
2.10 CONCRETE MIXING: Comply with the following unless modified by requirements in the Contract Documents: ACI 301 (ACI 301M) and ACI 117 (ACI 117M).

SECTION 033000 - CAST-IN-PLACE CONCRETE (CONTINUED)

- PART 3 - EXECUTION
3.1 FORMWORK INSTALLATION
A. Design, erect, shore, brace, and maintain formwork, according to ACI 301 (ACI 301M), to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until structure can support such loads.
B. Construct formwork so concrete members and structures are of size, shape, alignment, elevation, and position indicated, within tolerance limits of ACI 117 (ACI 117M).
3.2 EMBEDDED ITEM INSTALLATION: Place and secure anchorage devices and other embedded items required for adjoining work that is attached to or supported by cast-in-place concrete. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
3.3 VAPOR-RETARDER INSTALLATION: Place, protect, and repair sheet vapor retarder according to ASTM E 1643 and manufacturer's written instructions.
3.4 STEEL REINFORCEMENT INSTALLATION: Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.
3.5 JOINTS
A. General: Construct joints true to line with faces perpendicular to surface plane of concrete.
B. Construction Joints: Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Architect.
C. Construction Joints in Slabs-on-Grade: Form weakened-plane construction joints, sectioning concrete into areas as indicated. Construct construction joints for a depth equal to at least one-fourth of concrete thickness.
D. Isolation Joints in Slabs-on-Grade: After removing formwork, install joint-filler strips at slab junctions with vertical surfaces, such as column pedestals, foundation walls, grade beams, and other locations, as indicated.
3.6 CONCRETE PLACEMENT: Before placing concrete, verify that installation of formwork, reinforcement, and embedded items is complete and that required inspections for clearing, restraightening, and finishing operations are completed. Do not wet concrete surfaces.
3.7 CONCRETE PROTECTING AND CURING: Cure concrete according to ACI 308. Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and ACI 301 (ACI 301M) for hot-weather protection during curing.
3.8 FIELD QUALITY CONTROL: Owner will engage a qualified testing and inspecting agency to perform field tests and inspections and prepare test reports.

- AB ANCHOR BOLTS
ADLT ADDITIONAL
ALT ALTERNATE
ANCH ANCHOR
APPROX APPROXIMATE
ARCH ARCHITECT/ARCHITECTURAL
BB BOND BEAM
BLDG BUILDING
BM BEAM
BOT BOTTOM OF
BOTBTM BOTTOM
BRG BASE PLATE/BEARING PLATE
BP BEARING
BTW BETWEEN
CANT CANTILEVER
CC CONCRETE BEAM
CC CONCRETE COLUMN
CIP CAST IN PLACE
CL CONTROL JOINT
CL CENTERLINE
CLR CLEAR/CLEARANCE
COL COLUMN
CONC CONCRETE
CONXN CONNECTION
CONSTR CONSTRUCTION
CONT CONTINUOUS
CORR CORRUGATED
CMMU CONCRETE MASONRY UNIT
DET DETAIL
DIADIAM DIAMETER
DIM DIMENSION
DIST DISTANCE
DN DOWN
DR DRAIN
DWG DRAWING
LW LOWER
EACH EACH
EL ELEVATION
ELEV ELEVATION
ELECT ELECTRICAL
EMBEDMENT EMBEDMENT
ENGR ENGINEER
EQ EQUAL
EQUIP EQUIPMENT
EQUIV EQUIVALENT
ES EACH SIDE
EXIST EXISTING
EXP EXPANSION
EXT EXTERIOR
EW EACH WAY
FAB FABRICATE
FD FLOOR DRAIN
FF FINISHED DOOR
FIN FINISHED
FL/FLR FLOOR
FTG FOOTING
GA GAGE/GUAGE
GAL/VGV GALVANIZED
GC GENERAL CONTRACTOR
HAS HEADED ANCHOR STUD
HB HIGH BEAM (MASONRY)
HOR HORIZONTAL
HSR HIGH STRENGTH BOLTS
HSS HOLLOW STEEL SECTION
HT HEIGHT
INT INTERIOR
JST JOIST
JT JOINT
K KIPS
KO KNOCK OUT
KSF KIPS PER SQUARE FOOT
KSI KIPS PER SQUARE INCH
W ANGLE
LB LOW BEAM (MASONRY)
LBS POUNDS
LDH DEVELOPMENT LENGTH
LDV LONG DIMENSION HORIZONTAL
LGTH LONG DIMENSION VERTICAL
LGTB LONG LEG TUBULAR
LGB LONG LEG BACK TO BACK
LLH LONG LEG HORIZONTAL
LLV LONG LEG VERTICAL

LIST OF STRUCTURAL ABBREVIATIONS

Table listing structural abbreviations such as MATERIAL, MAXIMUM, MASONRY BEAM, MOMENT CONNECTION, etc.

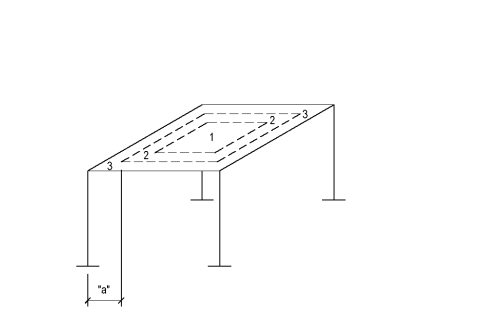


Table showing Allowable Wind Pressures (0.6)P for Zone 'a' = 3FT. Columns include Zone, Effective Wind Area (SF), Positive Pressure (PSF), and Negative Pressure (PSF).

CANOPY COMPONENTS & CLADDING WIND PRESSURES PER ASCE 7-10

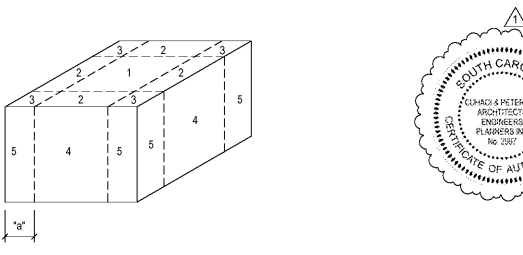


Table showing Allowable Wind Pressures (0.6)P for Zone 'a' = 7FT. Columns include Zone, Effective Wind Area (SF), Positive Pressure (PSF), and Negative Pressure (PSF).

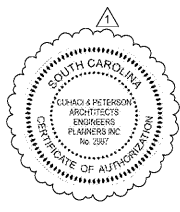
MINIMUM PARAPET DESIGN LOAD: WINDWARD = 18 PSF, LEeward = -48 PSF

COMPONENTS & CLADDING WIND PRESSURES PER ASCE 7-10

BID SET 10/28/2020

Order Plans

WWW.LDILINE.COM



1925 Prosper Ave, Orlando, FL 32814, P: (407) 651-9100, F: (407) 651-9101



Cross Development, Caliber Collision Five Forks, 1215 East Butler Rd, Greenville, SC 29607

PROJECT NAME, CLIENT NAME, SHEET TITLE, General Notes and Specifications

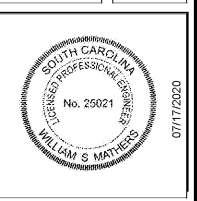


Table with columns for Revision Schedule, No., Description, Date, and Permit Comments.

Table with columns for Project No., Date, Drawn, Checked, and TM.

S0.1