DESIGN CRITERIA

R (PER PRECAST MANUF.) ——

A. CODE: INTERNATIONAL BUILDING CODE, 2012 EDITION WITH 2014 GEORGIA AMENDMENTS

| B. DESIGN LOADS: GRAVITY DESIGN CRITERIA: LIVE LOAD (PARKING GARAGE) | 40 PSF |
|--|--------|
| WIND DESIGN CRITERIA: WIND SPEED (ULTIMATE) I (WIND IMPORTANCE FACTOR) WIND EXPOSURE GCpi (INTERNAL PRESSURE COEFF.) | ———В |
| SEISMIC DESIGN CRITERIA: SHORT PERIOD, SDS— 1 SEC. PERIOD, SD1— SEISMIC DESIGN CATEGORY— SEISMIC USE GROUP— | ———В |

BASIC STRUCTURAL AND SEISMIC RESISTING SYSTEM:

BEARING WALL SYSTEM WITH INTERMEDIATE PRECAST SHEAR WALLS <u>DESIGN BASE SHEAR (KIPS) - PER PRECAST MANUF.</u> DESIGN BASE SHEAR — — 724.0 К

ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

2. GENERAL

- A. THE FOLLOWING SPECIFICATIONS ARE AN OUTLINE OF MINIMUM MATERIAL REQUIREMENTS AND THEIR APPLICATION. MANUFACTURER SPECIFICATION AND LOCAL CODE REQUIREMENTS, WHEN IN EXCESS OF MINIMUM SPECIFICATION, SHALL CONTROL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW AND SUBMIT ALL SHOP DRAWINGS AND REPORT ALL DOCUMENT DISCREPANCIES TO THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OR ERECTION.
- B. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION, AND THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
- C. ALL DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.
- D. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- E. WHERE A SECTION IS CUT ON THE DRAWINGS, IT SHALL APPLY AT ALL LIKE OR SIMILAR CONDITIONS U.N.O.
- F. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING: a. SIZE & LOCATION OF ALL DOOR & WINDOW OPENINGS
- b. SIZE & LOCATION OF ALL ROOF OPENINGS. c. FLOOR AND ROOF FINISHES.
- d. DETAILS OF VENEER ATTACHMENT. e. LOC'N & EXTENT OF INSULATION.
- G. SEE MECHANICAL, PLUMBING, ELECTRICAL AND CIVIL DRAWINGS FOR THE FOLLOWING
- INFORMATION: a. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC. b. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
- c. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES. d. UNDERGROUND CONCRETE DUCTS, TRENCHES, PITS OR MANHOLES.
- e. CONCRETE AND ASPHALT PAVEMENT
- H. THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE INDICATED. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ALL MEANS AND METHODS OF OF CONSTRUCTION AND SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN OR OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, SHORING FOR EARTH BANKS, FORMS, SCAFFOLDING, PLANKING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES, ETC. MODIFICATION OR SUBSTITUTION MUST BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.

3. CONCRETE

- A. CONCRETE PROTECTION FOR REINFORCEMENT OF POURED-IN-PLACE MEMBERS: (SEE SECTION 7.7 ACI 318 '08).
- B. PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE I.
- C. REFER TO ARCHITECTURAL DRAWINGS FOR CLIPS, GROOVES, GROUNDS, ETC., TO BE CAST IN CONCRETE AND CONCRETE FINISHES.
- D. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- E. SLEEVE PLUMBING OPENINGS IN SLABS BEFORE PLACING CONCRETE AND BEND REINFORCING AROUND SLEEVES. CORING NOT PERMITTED IN FLOOR SLABS, UNLESS APPROVED BY STRUCTURAL ENGINEER.
- F. ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE AS FOLLOWS: SLAB ON GRADE ----FOOTINGS, GRADE BEAMS & PILE CAPS ———— PILASTERS, BASEMENT & RETAINING WALLS & RETAINING WALL FOOTINGS———4000 PSI AUGER CAST PILES — 5000 PSI
- G. CONCRETE SLUMP SHALL BE 3" TO 5" AT TIME OF PLACEMENT.
- H. CONCRETE MIX DESIGNS SHALL BE ESTABLISHED BY THE SUPPLIER IN ACCORDANCE WITH ACI 318-05. MIX DESIGNS SHALL BE SUBMITTED WITH BACK-UP DATA PER ACI 318-05 TO THE ARCHITECT FOR REVIEW PRIOR TO CONCRETE PLACEMENT.
- J. ALL CONCRETE EXPOSED TO THE WEATHER SHALL CONTAIN 6 TO 8% ENTRAINED AIR.
- K. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318, ACI 318.1 AND ACI 301. STORM WATER STRUCTURES SHALL CONFORM TO ACI 350. CONCRETE TEST REPORTS
- L. SEE AUGER CAST PILE NOTES FOR GROUT STRENGTH & TESTING REQUIREMENTS

4. REINFORCING STEEL

SHALL BE AVAILABLE AT THE JOB SITE.

- A. REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO ASTM A-615, GRADE 60.
- B. CLEAR COVERAGE OF CONCRETE OVER OUTER REINFORCING BARS SHALL BE IN ACCORDANCE WITH ACI 318-05. SECTION 7.7 UNLESS SPECIFICALLY DETAILED OTHERWISE ON THE DRAWINGS.
- C. ALL REINFORCING BAR BENDS TO BE MADE COLD.
- D. CONTRACTORS SHALL NOT PLACE ANY REINFORCING UNTIL APPROVED SHOP DRAWINGS ARE RECEIVED ON THE JOB.
- E. BARS SHALL BE IN CONTACT WHEN FORMING A LAP SPLICE, UNLESS NOTED OTHERWISE.
- F. PROVIDE CORNER BARS @ ALL TURN-DOWN SLAB CORNERS AND C.I.P. CONCRETE WALL CORNERS. PROVIDE 30" LAP BETWEEN CORNER BARS AND MAIN REINFORCING.
- H. REINFORCING STEEL MARKED "CONTINUOUS" SHALL BE LAPPED w/ CLASS "B" LAP

G. WELDED WIRE FABRIC SHALL CONFORM TO ASTM-A185 GRADE - 65.

SPLICE UNLESS SPECIFICALLY DETAILED OTHERWISE. LAP WELDED WIRE MESH ONE FULL MESH AT SIDE AND END LAPS.

5. FOUNDATION

- A. FOUNDATION DESIGN IS BASED ON THE REPORT TITLED "GEOTECHNICAL EXPLORATION, CIRCLE 75 MULTIFAMILY DEVELOPMENT PHASE II, CIRCLE 75 PARKWAY & CRESCENT PARK DRIVE, COBB COUNTY, GA" PERFORMED BY UNITED CONSULTING AND DATED NOVEMBER 6, 2015. BASED ON THIS REPORT A RAMMED AGGREGATE PIER SYSTEM IS TO BE PROVIDED BY A SPECIALTY GEOTECHNICAL ENGINEER. AN ASSUMED SOIL BEARING CAPACITY OF 5000 PSF HAS BEEN USED IN THE DESIGN OF THE FOUNDATIONS SHOWN AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION BY THE SPECIALTY GEOTECHNICAL ENGINEER. AN ADDITIONAL REPORT TITLED "REPORT OF SEISMIC SITE CLASS, CIRCLE 75, CRESCENT PARK DRIVE, ATLANTA, GA" WAS ALSO USED FOR SEISMIC LOAD DETERMINATION.
- B. CONTRACTOR TO PROVIDE FOR DE-WATERING IN EXCAVATIONS FROM EITHER SURFACE WATER, GROUND WATER OR SEEPAGE.
- C. CONTRACTOR SHALL PROVIDE AND INSTALL ALL CRIBBING. SHEATHING AND SHORING REQUIRED TO SAFELY RETAIN THE EARTH BANKS.

- D. CONTRACTOR SHALL PROTECT ALL UTILITY LINES, ETC. ENCOUNTERED DURING EXCAVATION AND BACKFILLING.
- E. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED, BUT NOT BEFORE CONCRETE HAS ATTAINED FULL DESIGN STRENGTH.
- F. ALL NON-CANTILEVER CAST IN PLACE OR PRECAST BASEMENT WALL AND FOUNDATION WALLS SHALL BE LATERALLY SHORED UNTIL CONCRETE HAS REACHED THE REQ'D COMPRESSIVE STRENGTH & SLAB ON GRADE OR TOPPING OVER DOUBLE TEES AT TOP OF WALL HAS BEEN PLACED & GAINED 75% OF DESIGN STRENGTH.
- G. CONTRACTOR SHALL OBTAIN A COPY OF THE ABOVE REFERENCED SOILS REPORT & COMPLY WITH ITS RECOMMENDATIONS.
- H. FOUNDATION WALLS, RETAINING WALLS & BASEMENT WALLS HAVE NOT BEEN DESIGNED FOR CONSTRUCTION EQUIPMENT SURCHARGE. WHERE CONSTRUCTION EQUIP. SURCHARGES WALLS, WALLS SHALL BE SHORED AS REQUIRED.
- J. CIP CONCRETE PILASTERS SHALL BE SAME CONCRETE STRENGTH AND SAME REINF. AS CONCRETE COLUMN ABOVE UNLESS NOTED OTHERWISE.
- K. THE SOILS ENGINEER OF RECORD SHALL CERTIFY IN WRITING THAT ALL FOUNDATIONS

WERE PLACED AND COMPLETED AS SPECIFIED.

- L. UNDER SLAB DRAINAGE SYSTEMS, IF REQUIRED, ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS. DRAINAGE SYSTEMS SHALL BE PROVIDED AS DETERMINED AND RECOMMENDED BY THE GEOTECHNICAL ENGINEER OF RECORD.
- M. RETAINING WALL DRAINAGE SYSTEMS ARE NOT SHOWN ON THE STRUCTURAL DWGS. SEE ARCH & CIVIL DWGS AND GEOTECHNICAL REPORTS FOR DRAINAGE SYSTEM INFO.

6. MASONRY

- A. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS (f'm) SHALL BE 1500 PSI.
- B. MATERIAL SHALL BE AS FOLLOWS:
- CMU———GRADE N, ASTM C-90 (UNIT STRENGTH = 1900 PSI) MORTAR—TYPE S FOR WALLS NOT IN CONTACT WITH EARTH TYPE M FOR WALLS IN CONTACT WITH EARTH
- C. GROUT FOR CONCRETE MASONRY WALL SHALL CONFORM TO ASTM C476, f'c = 3,000 PSI MIN. GROUT SHALL BE CONSOLIDATED BY THOROUGLY RODDING ALL CELLS.
- D. GROUT PLACEMENT SHALL BE LOW-LIFT. THE CONSTRUCTION JOINTS ARE CREATED BY THE LEVEL OF GROUT STOPPING AT 1-1/2" FROM TOP OF MASONRY AND THE STEEL REINFORCING PROJECTING ABOVE THE TOP COURSE FOR A SUFFICIENT HEIGHT TO PROVIDE A LAP AT THE SPLICE OF 48 BAR DIAMETERS. THE CONSTRUCTION JOINT SHALL BE LOCATED 3'-0" MINIMUM FROM TOP AND BOTTOM OF STRUCTURAL ELEMENTS SUCH AS SLABS, ROOFS, ETC.
- E. CONCRETE MASONRY WALLS SHALL BE TEMPORARILY BRACED DURING ERECTION. REMOVE TEMPORARY BRACING ONLY AFTER WALLS ARE CONNECTED TO SUPPORTING
- F. ALL CONCRETE BLOCK BELOW GRADE SHALL HAVE ALL CELLS FILLED WITH GROUT.
- G. ALL CELLS CONTAINING REINFORCEMENT SHALL BE GROUTED SOLID.
- H. MAXIMUM CONTROL JOINT SPACING IN MASONRY WALL = 30'-0" UNLESS NOTED.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATION.
- J. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL CMU WALLS SHALL BE REINFORCED AS FOLLOWS:
- 1. VERT. REINF. #5 @ 48" o.c. CTR'D IN WALL THICKNESS CONTINUOUS BOND BEAM REINF w/2#5 CONT @ ALL FLOOR LEVELS, @ TOP OF
- WALL AND @ SLAB ON GRADE ELEVATION. 2. CONTINUOUS 9 GA. TRUSS TYPE HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. VERTICALLY.
- K. DOWEL ALL CMU MASONRY WALLS INTO GRADE BEAMS, ELEVATED CONCRETE SLABS, AND CONCRETE FOUNDATION WALLS. DOWELS SHALL HAVE STANDARD HOOKS AND MINIMUM FOOTING EMBEDMENT OF 9". DOWELS SHALL BE OF SUFFICIENT LENGTH TO PROVIDE 48 BAR DIAMETER LAP WITH VERTICAL REINFORCING. DOWELS SHALL BE OF SAME SIZE AND LOCATION AS VERTICAL WALL REINFORCING.
- L. SEE ARCHITECTURAL DRAWINGS FOR ALL C.M.U. WALL OPENING SIZES AND LOCATIONS.
- M. ALL C.M.U. SHALL BE PLACED IN RUNNING BOND.
- ACI 530.1-05. O. ALL CONCRETE MASONRY CONSTRUCTION SHALL BE INSPECTED AND TESTED PER THE

N. ALL MASONRY CONSTRUCTION AND INSPECTION SHALL COMPLY WITH ACI 530-05 &

- REQT'S OF ACI 530.1-05. COSTS OF THE SERVICES OF AN INDEPENDENT TESTING LABORATORY TO PERFORM TESTING AND INSPECTION SERVICES SHALL BE BORNE BY THE CONTRACTOR.
- P. CMU GROUT FILL SHALL ARRIVE AT THE JOB SITE WITH A SLUMP BETWEEN 3" TO 5". PRIOR TO DEPOSITING GROUT, SUPERPLASTICIZER SHALL BE ADDED TO THE GROUT AT THE JOB SITE INCREASING THE SLUMP TO 8" TO 10".
- Q. CMU WALL REINFORCING SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION. DRAWINGS SHALL SHOW ALL WALL AND PILASTER REINFORCING IN PLAN AND IN ELEVATION.
- R. PROVIDE CORNER BARS AT ALL BOND BEAMS TO ENSURE CONTINUITY AT CORNERS. LAP CORNER BARS 48 BAR DIAMETERS WITH BOND BEAM BARS.
- S. PROVIDE BAR SUPPORTS AND POSITIONERS AS REQUIRED TO ENSURE THAT FINAL IN-PLACE LOCATION OF REINFORCING IS AS INDICATED ON THE DRAWINGS.
- T. MASONRY SHALL BE PROTECTED FROM FREEZING DURING PLACEMENT& CURING.
- COLD WEATHER MASONRY PROCEDURES SHALL COMPLY W/ACI 530-05 & ACI 530.1-05. U. THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL BRACING AND SHORING FOR
- ALL MASONRY WALLS AS REQUIRED TO ENSURE STABILITY DURING CONSTRUCTION.
- EXPANSION ANCHORS, ADHESIVE ANCHORS AND POWDER ACTUATED FASTENERS
- A. ALL EXPANSION ANCHORS SHALL BE 3/4"Ø KWIK BOLT II EXPANSION ANCHORS BY HILTI WITH 4 3/4" EMBEDMENT UNO.
- B. ALL POWDER ACTUATED FASTENERS SHALL BE .177" SHANK DIAMETER PINS BY HILTI OR APPROVED EQUAL UNO. PIN LENGTHS SHALL BE OF SUFFICIENT LENGTH TO ALLOW FULL PENETRATION THROUGH THE STRUCTURAL STEEL. PIN SPACING SHALL BE NO LESS THAN 1 1/2" AND EDGE DISTANCE SHALL BE NO LESS THAN 1/2".
- C. ALL ADHESIVE ANCHORS SHALL BE INSTALLED w/HIT HY 150 ADHESIVE ANCHOR SYSTEM BY HILTI OR SET HIGH STRENGTH EPOXY SYSTEM BY SIMPSON OR APPROVED EQUAL.
- D. ALL ANCHORS AND FASTENERS SHALL BE INSTALLED PER MANUFACTURER

8. PRECAST CONCRETE NOTES

- A. TYP. PRECAST FRAMING TO CONSIST OF 3" THICK REG. WEIGHT C.I.P. CONCRETE TOPPING ON 24" DEEP PRECAST DOUBLE TEE'S. PRECAST SUPPLIER SHALL DESIGN THE LATERAL FORCE RESISTING SYSTEM INCLUDING SHEAR WALL & DIAPHRAGM REINFORCEMENT (TOPPING & REINFORCEMENT SHALL BE PROVIDED BY GC) FOR THE LATERAL LOADS PRESCRIBED IN THE 2006 INTERNATIONAL BUILDING CODE. CALCULATIONS SHALL BE SUBMITTED WITH SHOP DRAWINGS FOR THE
- B. ALL EMBED PLATES, WELD PLATES AND CONNECTIONS TO THE FOUNDATION SHALL BE DESIGNED AND SUPPLIED BY THE PRECAST CONCRETE SUPPLIER.
- C. ALL EXPOSED STEEL (EMBED PLATES, WELD PLATES, ETC...) SHALL BE HOT DIPPED GALVANIZED.
- D. PRECAST SUPPLIER SHALL DESIGN AND PROVIDE ALL PRECAST COLUMN BASE PLATES & ANCHOR BOLTS.
- E. FOUNDATION DESIGN IS BASED ON LOADS SHOWN ON PLAN PROVIDED BY ATLANTA STRUCTURAL CONCRETE CO. AND M2 STRUCTURAL SHALL BE NOTIFIED IMMEDIATELY OF ANY LOAD CHANGES.
- F. ALL PRECAST BASEMENT WALLS SHALL BE DESIGNED BY THE SUPPLIER TO RESIST LATERAL EARTH PRESSURES AND ANY ADDITIONAL SURCHARGES.
- U CLUIVLIUVI CLELI

9. SIKUUTUKAL SIEEL

A. STRUCTURAL STEEL DETAILING, FABRICATION AND ERECTION SHALL BE DONE IN ACCORDANCE WITH THE A.I.S.C. MANUAL OF STEEL CONSTRUCTION (9TH EDITION). ALL CONNECTIONS SHALL BE SHOP WELDED AND FIELD BOLTED EXCEPT AS NOTED ON DRAWINGS. FIELD BOLTS SHALL BE 3/4" DIA. A.S.T.M. A325 BEARING TYPE BOLTS WITH THREADS INCLUDED IN THE SHEAR PLANE (UNLESS NOTED). ALL FIELD WELDING SHALL BE DONE WITH E-70XX ELECTRODES.

10. DESIGN RESPONSIBILITY

- A. M2 STRUCTURAL IS RESPONSIBLE FOR THE STRUCTURAL DESIGN AND DETAILING OF THE FOUNDATION & RETAINING WALLS SHOWN ON THESE DRAWINGS AND IS RESPONSIBLE FOR THE INFORMATION CONTAINED ON THIS DRAWING. THE FOUNDATION DESIGN IS BASED ON GRAVITY AND LATERAL LOADS PROVIDED BY ATLANTA STRUCTURAL CONCRETE CO. DESIGN LOADS PROVIDED BY ATLANTA STRUCTURAL CONCRETE CO. ARE SHOWN ON THE DRAWINGS FOR FINAL VERIFICATION BY ATLANTA STRUCTURAL CONCRETE CO. AND BY SHOWING THESE LOADS, M2 STRUCTURAL, IS NOT CERTIFYING THEIR ACCURACY.
- B. ATLANTA STRUCTURAL CONCRETE CO. IS RESPONSIBLE FOR THE STRUCTURAL DESIGN OF THE ENTIRE SUPER-STRUCTURE. COMPLETE STRUCTURAL CALCULATIONS SHALL BE SUBMITTED TO M2 STRUCTURAL FOR REVIEW. ATLANTA STRUCTURAL CONCRETE CO. IS RESPONSIBLE FOR THE ACCURACY OF THE FOUNDATION DESIGN LOADS MENTIONED IN NOTE A ABOVE.

11. ROOF SYSTEM

- A. ROOF SYSTEM AT STAIRS SHALL BE DESIGNED AND DETAILED BY OTHERS.
- B. DESIGN OF FRAMING SHALL BE PERFORMED BY A REGISTERED ENGINEER LICENSED BY THE STATE OF GEORGIA. CALCULATIONS AND DRAWINGS SHALL BE SUBMITTED TO M2 STRUCTURAL FOR REVIEW AND APPROVAL.

12. STEEL STAIRS

- A. STEEL STAIRS SHALL BE DESIGNED AND DETAILED BY OTHERS.
- B. DESIGN OF STEEL STAIRS SHALL BE PERFORMED BY A REGISTERED ENGINEER LICENSED BY THE STATE OF GEORGIA. CALCULATIONS AND DRAWINGS SHALL BE SUBMITTED TO M2 STRUCTURAL FOR REVIEW AND APPROVAL.

13. STRUCTURAL ABBREVIATIONS

| ADD'L, ADD | ADDITIONAL | | LONG LEG VERTICAL |
|--------------|--------------------------|----------------|------------------------|
| AB, ABOLT | ANCHOR BOLT | LOC'N | LOCATION |
| ARCH. | | М | |
| Ø | | | MANUFACTURER |
| | AT | | |
| BM | BEAM | MECH | MECHANICAL |
| BRG | BEARING | MPH | MILES PER HOUR |
| BLK | BLOCK | MAT'L | MATERIAL |
| | | | |
| вот, в | | MAX | MAXIMUM |
| BLDG | BUILDING | MFR | MANUFACTURER |
| CL | CENTER LINE | MTL | METAL |
| CLR | CLEAR | MIN | MINIMUM |
| COL | | MISC | |
| | | | |
| CONC | | NIC | NOT IN CONTRACT |
| CONN | CONNECTION | NO | NUMBER |
| CMU | CONCRETE MASONRY UNIT | NTS | NOT TO SCALE |
| CONST | | 0.C. | ON CENTER |
| | | | |
| CONT | CONTINUOUS | OPNG | OPENING |
| CONTR | CONTRACTOR | O.H. | OPPOSITE HAND |
| D | DEEP | Р | PAN |
| DSN | DESIGN | PAF | POWDER ACTUATED |
| | | IAI | |
| FTG | | | FASTENER |
| DET, DTL | DETAIL | P/C | PRECAST |
| DIA, Ø | DIAMETER | PL | PLATE |
| DIAG | | PT | POST TENSIONED |
| | | | |
| DIM | | PTS | POINTS |
| DWG | DRAWING | PHSE | PENTHOUSE |
| DWL | DOWEL | PSF | POUNDS PER SQ. FOOT |
| EE | EACH END | PSI | POUNDS PER SQ. INCH |
| | | | |
| EF | EACH FACE | REF | REFERENCE |
| EW | EACH WAY | REV | REVISION |
| ELEV, EL | ELEVATION | REINF | REINFORCING |
| ETF | ELEVATION TOP OF | REQ'D | REQUIRED |
| ETC | ETCETERA | | |
| | | | REINFORCING BAR |
| EQ | EQUAL | SCHD, SCHED | SCHEDULE |
| EXIST, EXT'G | EXISTING | SECT | SECTION |
| EXP | EXPANSION | SLH | SHORT LEG HORIZONTAL |
| EXP JT, EJ | | SLV | SHORT LEG VERTICAL |
| · | | | |
| EXT | EXTERIOR | SL0 | SHORT LEG OUT |
| F/ | FACE OF | SIM | SIMILAR |
| FÍN FL, FFE | FINISHED FLOOR | SOG | SLAB ON GRADE |
| FFE | FINISHED FLOOR ELEVATION | SPECS | SPECIFICATIONS |
| | | | |
| FL, FLR | FLOOR | SQ | SQUARE |
| FTG | FOOTING | STD | STANDARD |
| FT | FEET, FOOT | STIRR | STIRRUPS |
| FLG | FLANGE | STL, ST'L | STEEL |
| | | | |
| GA, ga | GAUGE | STRUCT | STRUCTURAL |
| GALV | GALVANIZED | T | TOP |
| Н | HEAD | THK | THICK |
| HK | HOOK | THRD | THREADED |
| | | | |
| HR | HOUR | THRU | THROUGH |
| HORIZ | HORIZONTAL | | TOP OF STEEL |
| INFO | INFORMATION | T/B. T/BM | TOP OF BEAM |
| INT | INTERIOR | T/CONC | TOP OF CONCRETE |
| | | • | |
| JST | JOIST | T/SLAB | TOP OF SLAB |
| JT | JOINT | T/FTG | TOP OF FOOTING |
| K-FT | KIP-FEET | ΤΥΡ | TYPICAL |
| K/FT | KIPS PER FOOT | UNO | UNLESS NOTED OTHERWISE |
| • | | | |
| K | KIPS | VERT | VERTICAL |
| L | ANGLE | W | WIDE |
| 2L | | | |
| | | W/ | WITH |
| | DOUBLE ANGLE | W/ WP | WITH |
| LG LLH | | W/ WP WT | |

14. REQUIRED SUBMITTALS

LONG LEG OUT

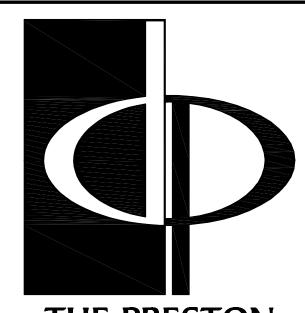
A. FOLLOWING LIST IS TO BE PROVIDED BY THE CONTRACTOR AND SUBMITTED TO M2 STRUCTURAL.

WELDED WIRE FABRIC

- 1. CONCRETE MIX DESIGNS INCLUDING A MINIMUM OF 30 TEST BREAKS. CONCRETE TESTING, INCLUDING:
- A. SLUMP TESTS FOR EACH TRUCK B. THREE CONCRETE CYLINDER BREAKS FOR EACH
- 50 CUBIC YARD OR PORTION THEREOF, INCLUDING 7 & 28 DAY BREAKS
- 3. REBAR PLACEMENT AND BEND DWGS. 4. MASONRY REINFORCEMENT PLANS.

5. MASONRY MIX AND GROUT DESIGN DATA.

B. ALL SUBMITTALS SHOULD BE SIGNED AND STAMPED BY A LICENSED PROFESSIONAL ENGINEER. FAILURE IN DOING SO WILL RESULT IN THE REJECTION OF SUBMITTALS.



THE PRESTON PARTNERSHIP, LLC A MULTI-DISCIPLINARY DESIGN FIRM

SOUTH TERRACES 115 PERIMETER CENTER PLACE, SUITE 950 ATLANTA, GEORGIA 30346 TELEPHONE: 770 396 7248 FAX: 770 396 2945 WWW.THEPRESTONPARTNERSHIP.COM



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| SCHEMATIC DESIGN SET | 08/28/201 |
|----------------------|-----------|
| DD PROGRESS SET | 10/07/201 |
| DD/GMP | 10/15/201 |
| FOUNDATION PERMIT | 12/07/201 |
| 75% CDs | 01/29/201 |
| GMP SET | 04/03/201 |
| PERMIT SET | 05/22/201 |
| | |

DATE -05/22/201 JOB NUMBER -149310 DRAWN BY -

PARKING DECK GENERAL NOTES SHEET NUMBER -

CHECKED BY

SHEET TITLE -

RELEASED FOR CONSTRUCTION

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