

**GENERAL NOTES**

- THESE NOTES SHALL APPLY EXCEPT WHERE OTHERWISE INDICATED BY DRAWINGS OR SPECIFICATIONS.
- CONTRACT DRAWINGS INCLUDE THE STRUCTURAL DRAWINGS AND SPECIFICATIONS BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR OTHER SUBMITTALS BY THE CONTRACTOR.
- REFERENCE TO DESIGN STANDARDS AND BUILDING CODES SHALL MEAN THE LATEST ADDITIONS OF THE REFERENCE UNLESS SPECIFICALLY STATED OTHERWISE.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SEE THE ARCHITECTURAL DRAWINGS.
- ALL MATERIALS AND WORKSMANSHIP ARE SUBJECT TO THE REVIEW OF THE ARCHITECT AND ENGINEER OF RECORD.
- STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND THE SPECIFIC REQUIREMENTS OF THIS PROJECT AS INDICATED ON THE DRAWINGS.
- COORDINATE WITH OTHER DISCIPLINE DRAWINGS FOR DRIPS, CHAMFERS, REGLETS, JUSTIFICATIONS, SLOTS, SLEEVES, ANCHORS AND INSERTS.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL SIZES AND LOCATIONS OF ROOF PENETRATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. PENETRATIONS GREATER THAN 1" ACROSS SHALL BE FRAMED AS SHOWN ON THE ROOF OPENING FRAME DETAIL.
- UNLESS SHOWN ON THE STRUCTURAL DRAWINGS, NO OPENING LARGER THAN 17' X 17' SHALL BE PLACED IN SLABS OR WALLS. FOR OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS, APPROVAL MUST BE OBTAINED FROM THE ARCHITECT PRIOR TO CONSTRUCTION OF OPENING.
- THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
- THE GENERAL CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH THE REQUIRED OSHA REGULATIONS.
- THE STRUCTURE DESCRIBED BY THESE DRAWINGS IS SELF SUPPORTING ONLY. IN ITS COMPLETED FORM, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF TEMPORARY BRACING AND SHORING.
- THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE BUILDING OFFICIAL REGARDING SUBMITTAL OF INSPECTION REPORTS TO THE BUILDING DEPARTMENT.
- REVIEW OF SUBMITTALS AND SHOP DRAWINGS BY THE ARCHITECT AND STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTAL AND SHOP DRAWINGS BEFORE SUBMITTING THE STRUCTURAL ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.
- THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, HANDRAILS, CURTAIN OR WINDOW WALL SYSTEMS, COLD-FORMED METAL FRAMING OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
- DO NOT HANG OR ATTACH DUCTWORK, PIPING, LIGHTING, CONDUIT, EQUIPMENT, CEILING, ETC. FROM METAL DECKING.
- CONTRACTOR SHALL COORDINATE THE LOCATION OF EQUIPMENT, WIRING, PUMPING, ETC. WITH ALL TRADES AFFECTED.
- WHERE A DETAIL IS SHOWN FOR ONE CONDITION IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS, EVEN THOUGH NOT SPECIFICALLY SHOWN ON THE DRAWINGS.
- CONSTRUCTION SAFETY TO MEET GUIDELINES OF OSHA SAFETY AND HEALTH STANDARDS (29 CFR 1926.1050) "CONSTRUCTION INDUSTRY".
- THE CONTRACTORS WORK SHALL INCLUDE BRACING AND TEMPORARY SHORING AS NECESSARY TO PREVENT MOVEMENT OF STRUCTURAL ELEMENTS UNTIL ALL NEW CONSTRUCTION IS PROPERLY IN PLACE.

**APPLICABLE CODES:**

INTERNATIONAL BUILDING CODE - IBC, 2006 Ed. w/ GA AMENDMENTS  
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION AISC, 9th Ed.  
 AMERICAN CONCRETE INSTITUTE - ACI 318-05  
 BUILDING CODES REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES - ACI 530-02

**STRUCTURAL STEEL NOTES**

- STRUCTURAL STEEL MATERIALS  
 STRUCTURAL STEEL (W SHAPES), ASTM A992, Fy = 50 KSI  
 OTHER SHAPES - ASTM A572  
 STRUCTURAL TUBING - A500 GRADE B  
 STRUCTURAL PIPE - ASTM A53 GRADE B  
 CONNECTION BOLTS - ASTM A325 UNLESS NOTED OTHERWISE  
 ANCHOR BOLTS - ASTM A36 UNLESS NOTED OTHERWISE (PROVIDE 2 NUTS AND WASHERS WITH EACH ANCHOR BOLT)  
 WELDING ELECTRODES - E70XX
- STRUCTURAL STEEL DETAILING, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF STEEL CONSTRUCTION" OF THE AISC.
- BOLTED CONNECTIONS SHALL BE MADE USING 3/4" DIAMETER BOLTS AND WASHERS CONFORMING TO ASTM A325 UNLESS NOTED. THEY SHALL BE INSTALLED AND INSPECTED IN CONFORMANCE TO THE SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. BOLTS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL HOLES TO BE DRILLED OR FINISHED. FLAME CUT HOLES ARE NOT PERMITTED.
- SHOP OR FIELD SPICES BETWEEN SUPPORTS THAT ARE NOT REQUIRED BY DESIGN WILL NOT BE ALLOWED. ANY MEMBER CONTAINING SUCH SPICES SHALL BE REMOVED AND REPLACED WITH UNSPLICED MEMBERS AT THE FABRICATORS EXPENSE.
- PROVIDE BOLTS AND PUNCH HOLES IN STRUCTURAL AND MISCELLANEOUS STEEL FOR ATTACHMENTS OR WOOD NAILERS AS REQUIRED ON THE ARCHITECTURAL, MECHANICAL AND STRUCTURAL DRAWINGS.
- MINIMUM SIZE OF WELD IS 3/16" UNLESS NOTED OTHERWISE. ALL WELDING SHALL CONFORM TO AISC D11.04 STRUCTURAL WELDING CODE" BY THE AMERICAN WELDING SOCIETY. ALL WORK SHALL BE PERFORMED BY CERTIFIED WELDERS EXPERIENCED IN THE TYPE OF CONSTRUCTION INVOLVED. PROOF OF WELDER CERTIFICATION SHALL BE AVAILABLE AT THE JOB SITE.
- SHOP DRAWINGS SHALL SHOW COMPLETE WELDING INFORMATION, BOTH SHOP AND FIELD, USING AMERICAN WELDING SOCIETY SYMBOLS UNLESS OTHERWISE NOTED.
- STEEL BEAMS SUPPORTED ON MASONRY OR CONCRETE WALLS SHALL HAVE A MIN OF 8" BEARING ON STEEL PLATE WITH ANCHORS.
- PROVIDE 1/2" NON-SHRINK GROUT UNDER ALL BASEPLATES.
- ALL PORTIONS OF STEEL ENCASED IN CONCRETE OR IN CONTACT WITH EARTH SHALL BE PAINTED WITH BITUMINOUS PAINT.
- ALL STEEL SHALL HAVE A PRIME COAT OF PAINT EXCEPT STEEL SCHEDULED TO RECEIVE FIREPROOFING.
- STEEL FABRICATOR TO BE AN AISC CERTIFIED FABRICATOR.
- ALL PLAN DIMENSIONS ARE TO CENTERLINE OF STEEL MEMBERS EXCEPT FOR STEEL CHANNELS CHANNEL DIMENSIONS ARE TO THE BACK FACE OF THE WEB.

**DESIGN CRITERIA NOTES**

- STRUCTURAL DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE 2006 INTERNATIONAL BUILDING CODE WITH GA AMENDMENTS
- ROOF LOADS:  
 LIVE 20PSF  
 DEAD 10PSF  
 COLLATERAL LOAD 5 PSF
- SNOW LOAD:  
 GROUND SNOW LOAD = 5.0 PSF  
 SNOW IMPORTANCE FACTOR = 1.00
- WIND LOADS:  
 BASIC WIND SPEED (3 SECOND GUST) = 80MPH  
 WIND IMPORTANCE FACTOR = 1.00  
 BLDG CATEGORY = II  
 SURFACE ROUGHNESS CATEGORY = B  
 WIND EXPOSURE = B  
 WALL COMPONENTS DESIGN PRESSURE = 20 PSF (BASED ON TRIBUTARY AREA)  
 ROOF COMPONENTS DESIGN PRESSURE = 20 PSF (BASED ON TRIBUTARY AREA)
- SEISMIC DESIGN CRITERIA: DESIGN PER SEC 613 (2006 IBC)  
 SEISMIC USE GROUP II  
 SEISMIC DESIGN CATEGORY = B  
 SEISMIC IMPORTANCE FACTOR = 1.00  
 SITE CLASS "D"  
 Sd = 0.25  
 Sd = 0.20  
 RESPONSE MODIFICATION COEFFICIENT (R) = 3.5  
 SEISMIC FORCE RESISTING SYSTEM  
 ORDINARY STEEL MOMENT FRAMES FOR SHEAR RESISTANCE  
 DESIGN BASE SHEAR = 10K  
 ANALYSIS PROCEDURE - EQUIVALENT LATERAL FORCE ANALYSIS

**SHOP DRAWING NOTES**

- CONTRACTOR SHALL FURNISH COMPLETE AND DETAILED SHOP DRAWINGS FOR THE FOLLOWING STRUCTURAL MATERIALS:  
 ANCHOR BOLT LAYOUT  
 STRUCTURAL STEEL, JOIST, AND METAL DECK  
 REINFORCING STEEL  
 CONCRETE MIX DESIGN  
 MASONRY UNITS, REINFORCING, MORTAR AND GROUT  
 METAL BUILDING  
 PREFAB TRUSSES
- UNLESS NOTED, SUBMIT DRAWINGS FOR ALL FABRICATED MATERIALS & DESIGN DRAWINGS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS. SHOP DRAWINGS WILL NOT BE REVIEWED UNLESS THEY ARE STAMPED "APPROVED" BY THE GENERAL CONTRACTOR.
- SHOP DRAWINGS FOR TRUSSES AND OTHER ITEMS DESIGNATED AS "DESIGNED BY OTHERS" OR "PRE-ENGINEERED" SHALL BE SEALED BY THE DESIGN ENGINEER OF RECORD PRIOR TO SUBMITTAL FOR REVIEW. ALL PRE-ENGINEERED TRUSS DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE DURING THE TYPES OF INSPECTION AND SHALL BEAR CLEAR INDICATION THAT THEY HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT STRUCTURAL ENGINEER OF RECORD.
- THE CONTRACTOR SHALL HAVE AN APPROVED SET OF ALL SHOP DRAWINGS AND PROOF OF WELDER CERTIFICATION AT THE JOBSITE AT ALL TIMES.
- COMPLETE SHOP DRAWINGS FOR CONSTRUCTION OF EACH BUILDING COMPONENT NOT DESIGNATED BY THE DESIGN TEAM-OF-RECORD AND NOT SPECIFIED ON THE PROJECT CONSTRUCTION DOCUMENTS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA AND SHALL BE AVAILABLE AT THE JOB SITE DURING THE TYPES OF INSPECTION.

**REINFORCING STEEL NOTES**

- SHALL BE DETAILED, FABRICATED AND PLACED ACCORDING TO THE LATEST STANDARDS OF THE AMERICAN CONCRETE INSTITUTE (ACI) AND THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
- MATERIALS  
 REINFORCING BARS SHALL COMPLY WITH ASTM A-65 GRADE 60  
 WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A82 AND A88
- CLEAR MINIMUM COVER OF CONCRETE OVER REINFORCING BARS SHALL BE AS FOLLOWS:  
 CONCRETE PLACED AGAINST EARTH = 3"  
 FORMED SURFACES EXPOSED TO EARTH = 2"  
 FORMED SURFACES EXPOSED TO WEATHER = 2" FOR #6 AND LARGER BARS AND 1 1/2" FOR #5 AND SMALLER BARS.  
 TOP OF SLAB = 3/4"
- ALL BARS DENOTED CONTINUOUS ON PLANS, SECTIONS, AND DETAILS SHALL HAVE CLASS "B" TENSION SPLICE LAPS UNLESS OTHERWISE NOTED ON DRAWINGS (43" FOR #6 BARS, 36" FOR #5 BARS AND 29" FOR #4 BARS).  
 AND CORNER BARS AND HOOKS AT DISCONTINUOUS ENDS. SPliced BARS SHALL BE SECURELY WIRE TOGETHER. SPICES OF ADJACENT REINFORCING BARS SHALL BE STAGGERED 24" WHEREVER POSSIBLE.
- WELDED WIRE FABRIC, WHERE REQUIRED, SHALL BE PLACED IN THE CENTER OF THE SLAB UNLESS NOTED OTHERWISE. LAP JOINTS ONE WIRE SPACING PLUS 2" OR A MINIMUM OF 8". EXTEND FABRIC TO WITHIN 1" OF EDGES OF SLABS ON GRADE.
- PROVIDE ADEQUATE BOLSTERS, HIGH CHAIRS, SUPPORT BARS, ETC. TO MAINTAIN SPECIFIED CLEARANCES FOR THE ENTIRE LENGTH OF ALL REINFORCING BARS AND WELDED WIRE FABRIC.
- ALL CONCRETE WALLS TO BE DETAILED IN ELEVATION ON SHOP DRAWINGS. NO MORE THAN 50% OF HORIZONTAL REINFORCING SHALL LAP IN A SINGLE VERTICAL PLANE.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A88

**ANCHOR BOLT NOTES**

- ANCHOR BOLTS SHALL CONFORM TO ASTM A36 GRADE "A" AND BE PROVIDED WITH HEAVY HEX NUTS SEE DETAIL.
- WASHERS MAY BE "MILD STEEL FLAT WASHERS" (CONFORMING TO ASTM B-112) OR "PLAIN HARDENED WASHERS" (CONFORMING TO ASTM A251).
- ANCHOR BOLTS SHALL BE THREADED FOR FULL PROJECTION ABOVE ROUGH CONCRETE.
- ALL ANCHOR BOLTS SHALL BE BROUGHT TO A "SNUG TIGHT" CONDITION (THE TIGHTNESS ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH). FOLLOWING THIS INITIAL TIGHTENING, ALL BOLTS SHALL BE RE-TIGHTENED TO THE "SNUG TIGHTENED" CONDITION.

THESE NOTES SUPPLEMENT THE DRAWINGS AND SPECIFICATIONS AND SHOULD NOT BE CONSIDERED INDICATIVE OF ALL ITEMS.

**MASONRY NOTES**

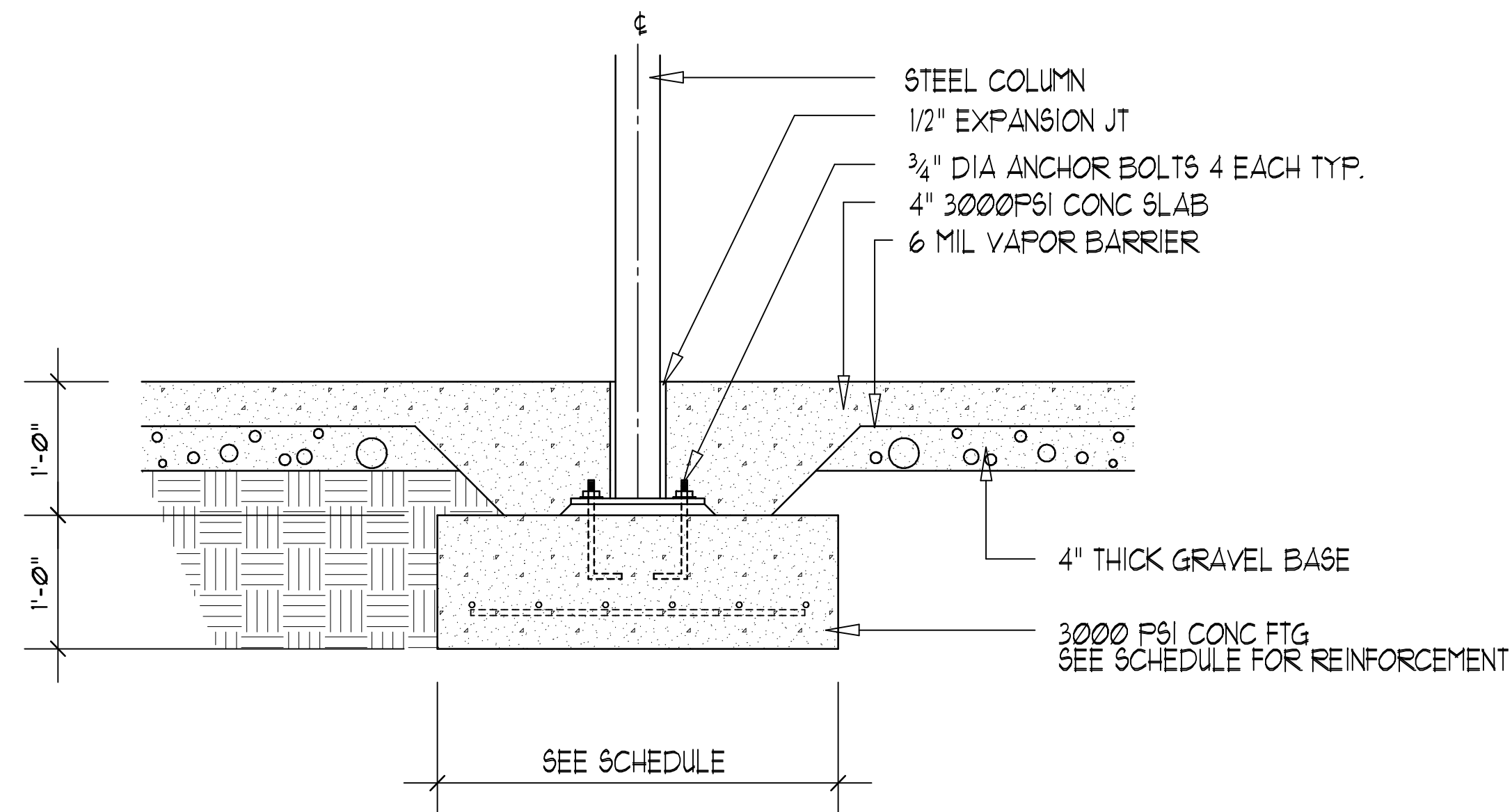
- ALL MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO ACI 530-05, ASCE 5-05, TMS-601-05 AND ACL 5301-05, ASCE 6-05, TMS 602-05
- CONCRETE MASONRY UNITS SHALL BE NORMAL OR LIGHT WEIGHT AND CONFORM TO ASTM C90. LAY IN RUNNING BOND UNLESS NOTED. MIN COMPRESSIVE STRENGTH SHALL BE 3500 PSI.
- JOINT REINFORCING - TRUSS TYPE 9 GAUGE SPACED VERTICALLY AT 16" OC UNLESS NOTED OTHERWISE AND CONFORM TO ASTM A 82
- VERTICAL REINFORCING IN CONCRETE MASONRY (AS REQUIRED) SHALL BE DOUELED INTO THE FOUNDATION AND EXTENDED INTO THE BOND BEAM AT THE FLOOR OR ROOF. PROVIDE MIN 4" X 4" OPENING AT BLOCK FOR VERTICAL BAR.
- PROVIDE REINFORCING IN CONCRETE MASONRY GROUTED CELLS AT EACH SIDE OF OPENING. MINIMUM REINFORCING SHALL BE 1-#5 AT EACH SIDE OF OPENING.
- ALL CELLS BELOW GRADE AND SLAB ON GRADE SHALL BE GROUTED.
- HORIZONTAL BEAMS, BOND BEAMS AND REINFORCING SHALL BE CONTINUOUS AT CONTROL JOINTS.
- SEE ARCHITECTURAL DRAWINGS FOR LAYING MASONRY AND LOCATION OF OPENINGS.
- BRICK TIES SHALL BE 22 GAUGE CORRUGATED GALVANIZED STEEL, CONFORMING TO ASTM A1008

**WOOD FRAMING NOTES**

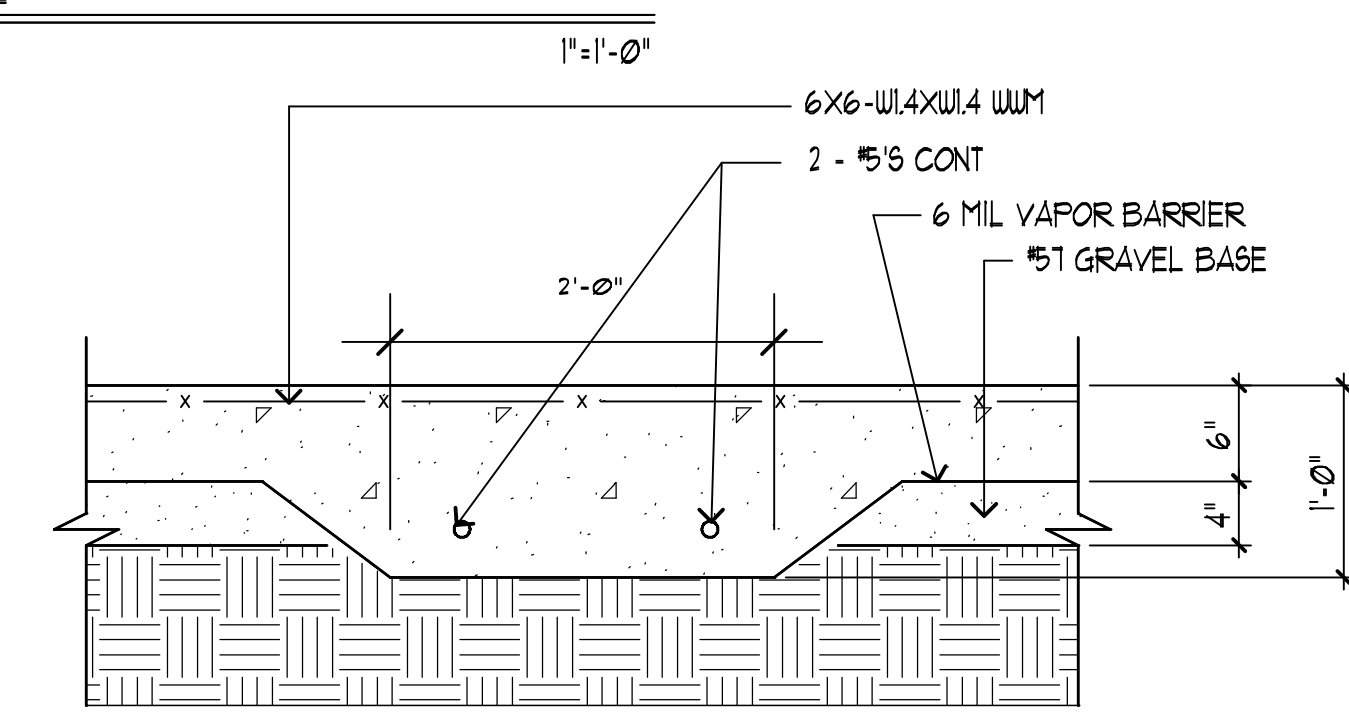
- ALL DIMENSION LINES SHOWN ON FLOOR PLAN ARE TO THE FACE OF WOOD STUDS UNLESS OTHERWISE SHOWN.
- ALL FRAMING LUMBER IS DESIGNED FOR 1000 PSF (EXTREME FIBER STRESS IN BENDING) USE CONSTRUCTION GRADE SPRLCE, FIR OR SOUTHERN PINE #1 GRADE FOR ALL WOOD FRAMING.)
- ALL CONSTRUCTION PRACTICES REGARDING WOOD FRAME CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE INTERNATIONAL BUILDING CODE AND THE NATIONAL FOREST PRODUCT ASSOCIATION.
- PRESSURE TREATED LUMBER SHALL BE USED WHERE WOOD IS IN CONTACT WITH CONCRETE AND STEEL.
- ALL CONNECTORS AND FASTENERS FOR PRESERVATIVE TREATED AND FIRE RETARDANT TREATED WOOD SHALL BE OF HOT-DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE, OR COPPER INCLUDING BUT NOT LIMITED TO ANCHOR BOLTS, POWDER ACTUATED FASTENERS NAILS, SCREWS BOLTS, AND METAL FRAMING HARDWARE. (ZINC COATING WEIGHTS SHALL COMPLY WITH EITHER ASTM A 521 OR ASTM A 64, SUPPLEMENTARY REQUIREMENTS.)

**GROUT AND MORTAR**

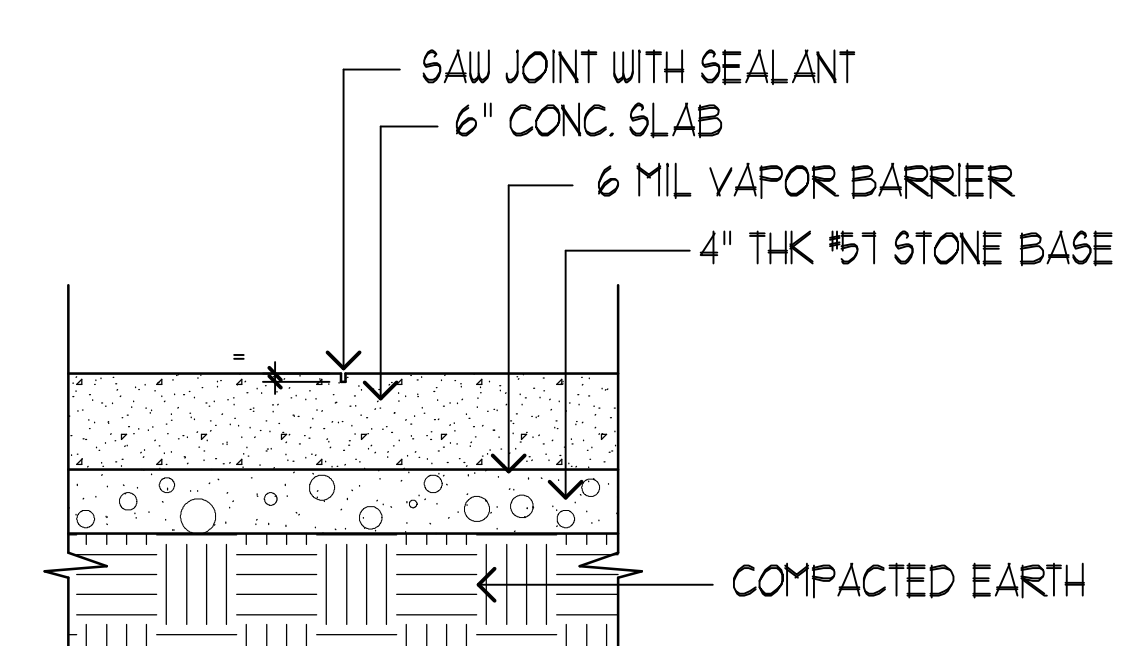
- MASONRY GROUT SHALL CONFORM TO ASTM C 416 WITH A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS. TAKE TEST CYLINDERS EACH DAY OF GROUT PLACEMENT.
- MASONRY MORTAR SHALL BE TYPE "M" MEETING ASTM 210



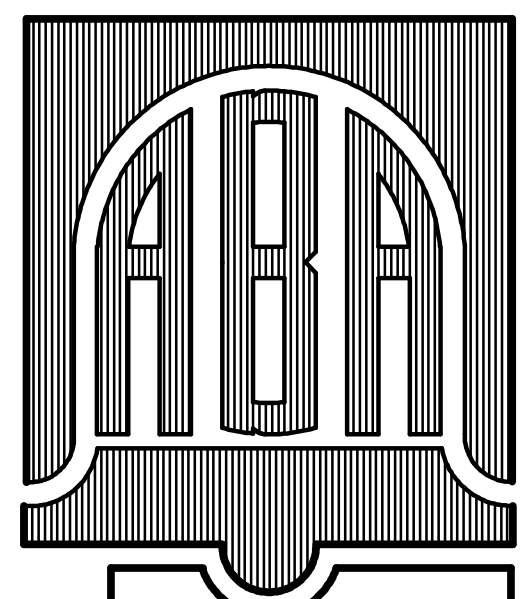
3 COLUMN DETAIL



2 TURNED DOWN SLAB



1 SAW JOINT DETAIL

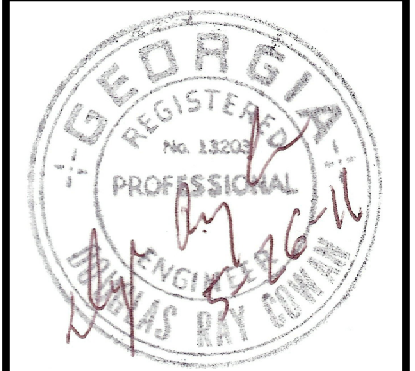


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REVISIONS	BY
JUNE 28, 2011	

ADDITIONS AND RENOVATIONS FOR  
**ALL - PRO HYUNDAI**  
 LAGRANGE, GEORGIA

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DATE:	JUNE 9, 2011
SCALE:	AS NOTED
JOB NO.:	11006-G01
SHEET	S-2
OF 2	SHEETS