

I. GENERAL NOTES:

- A. THESE NOTES SHALL APPLY EXCEPT WHERE OTHERWISE INDICATED BY THE DRAWINGS OR SPECIFICATIONS.
- B. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY MARKED ON THE DRAWINGS.
- C. IF APPLICABLE, CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS OF EXISTING BUILDINGS AFFECTING NEW CONSTRUCTION, AND DISCREPANCIES ARE TO BE REPORTED IMMEDIATELY TO THE ARCHITECT/ENGINEER IN WRITING.
- D. GENERAL CONTRACTOR SHALL ENSURE THAT ALL MATERIALS ARE IN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.
- E. ALL MASONRY WALLS BELOW GRADE SHALL BE BACKFILLED ON BOTH SIDES OF WALL SIMULTANEOUSLY. PROVIDE TEMPORARY BRACING AS REQUIRED TO ADEQUATELY SUPPORT STRUCTURE DURING CONSTRUCTION AND BACKFILLING. BRACINGS SHALL REMAIN IN PLACE UNTIL ALL FLOOR AND ROOF CONNECTIONS ARE COMPLETE.
- F. CENTER LINE OF COLUMN = CENTER LINE OF FOOTING = CENTER LINE OF ANCHOR BOLT TEMPLATE UNLESS NOTED OTHERWISE. NO PIPING SHALL PASS THROUGH OR UNDER ANY FOOTING WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- G. DIMENSIONS AT FRAMED OPENINGS TO BE VERIFIED WITH APPLICABLE SUB-CONTRACTOR BEFORE FABRICATION OF STEEL. IF ANY DISCREPANCIES ARE FOUND, THE ARCHITECT/ENGINEER IS TO BE IMMEDIATELY NOTIFIED IN WRITING.
- H. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO ORDERING MATERIAL. DISCREPANCIES BETWEEN FIELD MEASUREMENTS OF THE EXISTING CONDITIONS AND THE DIMENSIONS INDICATED ON THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
- I. SUBMIT SHOP DRAWINGS OF ALL FABRICATED MATERIALS FOR REVIEW. CONTRACT DOCUMENTS REPRODUCED FOR USE AS SHOP DRAWINGS WILL BE RETURNED UNREVIEWED AND UNSTAMPED. SHOP DRAWINGS WILL NOT BE REVIEWED UNLESS THEY ARE STAMPED "APPROVED" OR "APPROVED AS NOTED" BY THE GENERAL CONTRACTOR.

II. DESIGN CRITERIA:

- A. BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE
- B. DESIGN LOADS
 - 1. ADDITIONAL DESIGN LOADS INDICATED ON STRUCTURAL DRAWINGS SHALL BE IDENTIFIED AS FOLLOWS
 - LL = LIVE LOAD
 - WL = WIND LOAD
 - EL = SEISMIC LOAD
 - SN = SNOW LOAD
 - SD = SNOW DRIFT
 - 2. WIND:
 - a. $V_w = 105$ mph
 - b. RISK CATEGORY = II IMPORTANCE FACTOR = 1.00
 - c. MEAN ROOF HT = 18'-0"
 - d. EXPOSURE C
 - e. END ZONE = 7'-6"
 - f. ENCLOSED BUILDING, $GCF = 1.0$
 - g. WIND PRESSURES FOR COMPONENTS AND CLADDING BY TRIBUTARY AREA. VALUES BASED ON WIND SPEED = 105 MPH AND EXPOSURE = C. VALUES ARE UNFACTORED AND MAY BE USED IN EITHER STRENGTH DESIGN OR ALLOWABLE STRESS DESIGN LOAD COMBINATIONS OF ASCE 7-16.

REGION	COMPONENT & CLADDING PRESSURES, PSF			
	10 ft ²	20 ft ²	50 ft ²	100 ft ²
1	+16.0/-22.9	+16.0/-22.4	+16.0/-21.4	+16.0/-20.7
2	+16.0/-29.2	+16.0/-28.6	+16.0/-27.4	+16.0/-26.2
3	+16.0/-29.2	+16.0/-28.6	+16.0/-27.4	+16.0/-26.2
4	+25.0/-27.1	+23.9/-25.8	+22.4/-24.5	+21.2/-23.5
5	+25.0/-33.4	+23.9/-31.3	+22.4/-28.1	+21.2/-26.0

- 3. SEISMIC:
 - a. RISK CATEGORY = II IMPORTANCE FACTOR = 1.00
 - b. SITE CLASS = D
 - c. $S_s = 0.294$ $S_1 = 0.360$
 - d. $S_s = 0.108$ $S_1 = 0.172$
 - e. SEISMIC DESIGN CATEGORY = C
 - f. EQUIVALENT LATERAL FORCE PROCEDURE
 - g. BEARING WALL SYSTEM - LIGHT FRAMED WALLS w/ WOOD STRUCTURAL PANELS R=6 I=2
 - h. $C_d = 0.0600$
 - i. DESIGN BASE SHEAR = 2'
- 4. SNOW:
 - a. RISK CATEGORY = II IMPORTANCE FACTOR = 1.00
 - b. $P_g = 10.0$ psf $P_f = 10.0$ psf RAIN-ON-SNOW = 0.0 psf
 - c. $C_e = 1.0$ $C_t = 1.0$

- C. FOUNDATIONS:
 - 1. FOUNDATION DESIGN IS BASED ON SUBSURFACE EXPLORATION REPORT PREPARED BY TERRACON CONSULTANTS, INC. PROJECT # E220504Z DATED JULY 21, 2020
 - 2. INSTALLATION OF RAMMED AGGREGATE PIERS SHALL PROVIDE A MINIMUM EQUIVALENT UNIFORM BEARING PRESSURE OF 2,000 p.s.f. AT COLUMN FOOTINGS AND 2,000 p.s.f. AT WALL FOOTINGS.
 - 3. ALL GRADING AND FILLING SHALL BE DONE AS RECOMMENDED BY A GEOTECHNICAL ENGINEER. GENERAL CONTRACTOR SHALL ESTABLISH AND MAINTAIN SITE DRAINAGE TO DIRECT WATER AWAY FROM FOOTING EXCAVATIONS AND FILL PLACEMENT.
 - 4. ALL FOOTINGS SHALL BE POURED ON FIRM, UNDISTURBED EARTH OR ENGINEERED CONTROLLED BACKFILL. BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 12" INCHES BELOW FINISH GRADE UNLESS OTHERWISE NOTED, AND TOP OF FOOTING MUST COINCIDE WITH FINISH FLOOR. FROST LINE FOR THIS PROJECT IS 2' BELOW FINISH GRADE.

MARK	HEADER SCHEDULE					
	H-1	H-2	H-3	H-4	H-5	H-6
SIZE	(2) 1 3/4"x9 1/2" LVL	(2) 1 3/4"x11 1/2" LVL	(2) 1 3/4"x9 1/2" LVL	(3) 2x6 #2 SYP	(3) 2x12	(3) 2x10
JACK STUD	(2) 2x4	(3) 2x4	(1) 2x6	(1) 2x6	N/A	(1) 2x6
KING STUD	(1) 2x4	(2) 2x4	(2) 2x6	(1) 2x6	(3) 2x6	(2) 2x6

1. JACK SIZE INDICATED TO BE USED UNLESS NOTED OTHERWISE ON PLAN.
2. SEE DETAIL A/S202 FOR TYPICAL HEADER.

III. CONCRETE:

- A. CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS."
- B. CEMENT TO BE PORTLAND TYPE 1 OR APPROVED EQUAL.
- C. MIX DESIGN SHALL BE DOCUMENTED IN ACCORD WITH SECTION 03300 OF THE PROJECT SPECS AND ACI 301, CHAPTER 3 "PROPORTIONING". MIX DESIGNS WHICH ARE SUBMITTED WITHOUT THE REQUIRED DOCUMENTATION WILL BE REJECTED. FIELD SLUMPS RECORDED AT JOB SITE SHALL NOT EXCEED THE SLUMP ESTABLISHED FOR THE MIX DESIGN.
- D. CONCRETE SHALL HAVE AN ALLOWABLE COMPRESSIVE STRENGTH AS NOTED BELOW:
 - INTERIOR SLABS ON GRADE $F_c = 3,000$ PSI
 - FOUNDATIONS $F_c = 3,000$ PSI
- E. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
 - FOOTINGS 3"
 - SLAB-ON-GRADE 3"
- F. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4" INCH UNLESS NOTED.
- G. CONCRETE SHALL NOT BE POURED IN WATER OR ON FROZEN GROUND AND SHALL BE PROTECTED FROM FROST DURING CONSTRUCTION.
- H. CONTRACTOR SHALL COORDINATE ALL CONTRACT DRAWINGS FOR THE LOCATION OF ANCHOR BOLTS, FLOOR DRAINS, INSERTS, ETC., BEFORE POURING CONCRETE.
- I. SLABS:
 - 1. SLAB THICKNESS INDICATED ON DRAWINGS IS MINIMUM AND SHALL BE MEASURED FROM LOW POINT ON FLOOR. CONTRACTOR SHALL COORDINATE ALL DRAWINGS TO ASSURE THAT ALL FLOORS HAVE PROPER SLOPE TO DRAIN IN TOILETS, SHOWERS, ETC.
 - 2. "C.J." AS INDICATED ON SLAB, INDICATES 3/4" DEEP SAW CUT CONTROL JOINT OR KEVED CONSTRUCTION JOINT IN SLAB-ON-GRADE. MAKE CUTS WITHIN 12 HOURS AFTER CONCRETE PLACEMENT.
- J. REINFORCEMENT:
 - 1. ALL DETAILING, FABRICATION AND PLACEMENT OF REINFORCING STEEL, MIXING, HANDLING, PLACING, FINISHING AND CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI-318 AND ACI-308.
 - 2. WIRE MESH REINFORCEMENT SHALL BE CENTERED IN SLAB, BY USE OF HIGH CHAIR WELDING WASHERS OR CONTINUOUS BEAM BOLSTERS.
 - 3. WELDED WIRE FABRIC AND WIRE SHALL BE LAPPED THE SPACING OF THE CROSS WIRES PLUS 2'.

IV. STRUCTURAL STEEL:

- A. DESIGN, FABRICATION, & ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE MANUAL OF STEEL CONSTRUCTION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION NINTH EDITION UNLESS OTHERWISE MODIFIED ON THE DRAWINGS OR IN SPECIFICATIONS.
- B. MATERIAL SHALL MEET THE REQUIREMENTS OF THE FOLLOWING SPECIFICATION UNLESS NOTED:
 - STRUCTURAL STEEL - ASTM A992 ($F_y = 50$ ksi)
 - ROUND PIPE STEEL - ASTM A53 GRADE B ($F_y = 35$ ksi)
 - TUBE STEEL - ASTM A500 GRADE B ($F_y = 48$ ksi)
 - HIGH STRENGTH BOLTS - ASTM A325-86A, 3/4"
 - WELD STEEL - AWS CLASS E70
- C. ALL SHOP CONNECTIONS SHALL BE WELDED OR MADE WITH HIGH STRENGTH BOLTS UNLESS NOTED SPECIFICALLY.
- D. FIELD CONNECTIONS SHALL BE MADE WITH 3/4" HIGH STRENGTH BOLTS. FIELD WELDING WILL BE ALLOWED ONLY WHERE NOTED ON THE DRAWINGS AND DETAILS.
- E. ALL HIGH STRENGTH BOLTED CONNECTIONS SHALL BE BEARING TYPE WITH THREADS INCLUDED IN THE SHEAR PLANE UNLESS NOTED.
- F. ALL HIGH STRENGTH FIELD BOLTED CONNECTIONS SHALL BE TIGHTENED BY THE "TURN-OF-THE-NUT" METHOD AS SPECIFIED IN "THE ALLOWABLE STRESS DESIGN SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."
- G. FRAMED BEAM CONNECTIONS SHALL DEVELOP THE REACTION SHOWN ON ENDS OF BEAMS ON STRUCTURAL PLANS. WHERE REACTIONS ARE NOT SHOWN THE CONNECTION SHALL DEVELOP ONE-HALF THE ALLOWABLE UNIFORM LOAD FOR LATERALLY SUPPORTED BEAMS AS SHOWN IN TABLES IN PART 2 OF THE AISC MANUAL. CONNECTION DESIGN TO BE SUBMITTED BY ENGINEER LICENSED IN THE PROJECT STATE.
- H. ALL STRUCTURAL STEEL BELOW GRADE SHALL BE ENCASED WITH A MINIMUM OF 4" CONCRETE COVER OR PAINTED WITH A COAL TAR

V. WOOD FRAMING NOTES

- 1. WALL STUDS SHALL BE DOUBLED AT ALL ANGLES, CORNERS, AND AROUND ALL OPENINGS.
- 2. REFER TO PLAN FOR ALL SHEAR WALL LOCATIONS.
- 3. PROVIDE ALL BLOCKING AND FIRE STOPS REQUIRED BY THE BUILDING OFFICIAL.
- 4. UNLESS OTHERWISE NOTED, ALL TIMBER CONNECTIONS SHALL BE NAILED IN CONFORMANCE WITH THE 2006 INTERNATIONAL BUILDING CODE.

VI. PRE-MANUFACTURED WOOD TRUSS:

- 1. WOOD TRUSSES SHALL BE DESIGNED AND FABRICATED BY A FRANCHISED TRUSS MANUFACTURER IN ACCORDANCE WITH APPROPRIATE SECTIONS OF THE TIMBER CONSTRUCTION MANUAL (AISC). SHOP DRAWINGS ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER AND SHALL BE CERTIFIED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF GEORGIA. HANDLING AND ERECTING SHALL BE IN ACCORDANCE WITH THE AISC MANUAL.
- 2. WOOD TRUSSES TO BE CONTINUOUS ACROSS BUILDING.
- 3. BOTTOM CHORDS SHALL NOT BE SPLICED WITHIN THE MIDDLE THIRD OF THE SPAN LENGTH.
- 4. TRUSS MANUFACTURER SHALL DESIGN AND INDICATE LOCATIONS FOR ALL TEMPORARY AND PERMANENT BRIDGING. GENERAL CONTRACTOR SHALL INSTALL ALL BRIDGING AS DIRECTED BY THE TRUSS MANUFACTURER.

VII. FASTENERS:

- EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE ON DRAWINGS:
- A. ALL POWDER ACTUATED FASTENERS (P.A.F.) TO BE 1/4" SHANK DIAMETER x 1 1/4" LONG HILTI X-DWI 32 P8 OR 177 SHANK DIAMETER x 1 1/4" LONG HILTI DS 37 P10, TYP. U.N.C.
- B. ALL EXPANSION ANCHORS TO BE HILTI KWIK BOLT II
 - 5/8" - MIN. EMBED = 4"
 - 3/4" - MIN. EMBED = 4 3/4"
 - 1" - MIN. EMBED = 6"
- C. ALL SLEEVE ANCHORS TO BE HILTI CARBON STEEL SLEEVE ANCHORS
 - 1/2" - MIN. EMBED = 1 1/2"
- D. ALL EPOXY ANCHORS TO BE HILTI HIT HY150 ADHESIVE ANCHORS
 - 5/8" - MIN. EMBED = 5"
 - 3/4" - MIN. EMBED = 6 5/8"
 - 7/8" - MIN. EMBED = 7 1/2"
 - 1" - MIN. EMBED = 8 1/4"
- E. ALL CONCRETE MASONRY SCREWS TO BE HILTI KWIK-CON II
 - 3/16" - MIN. EMBED = 1"
 - 1/4" - MIN. EMBED = 1 3/4"
- F. ALL FASTENERS ARE SIZED PER HILTI SPECIFICATIONS. ALL FASTENERS MAY BE SUBSTITUTED BY AN EQUIVALENT THAT MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

MARK	COLUMN SCHEDULE		
	C1	C2	C3
COLUMN	4" STD. PIPE	4" STD. PIPE	4" STD. PIPE
BASE PLATE	1/2" PL	1/2" PL	1/2" PL
ANCHOR BOLTS	(2) F1554 (8x1)	(2) F1554 (8x1)	(2) F1554 (8x1)
NOTES	SEE S21	SEE S21	SEE S21

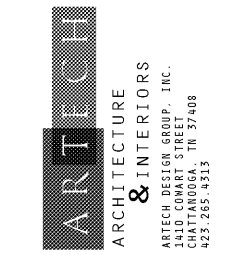
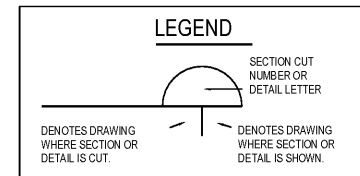
MARK	FOOTING SCHEDULE			
	F1	F2	F3	F4
FOOTING	4'-0"x4'-0"x1'-8" DP	5'-0"x5'-0"x1'-8" DP	4'-0"x4'-0"x1'-8" DP	4'-0"x5'-0"x1'-8" DP
REINFORCEMENT	(5) #5 EACH WAY TOP & BOTTOM	(6) #5 EACH WAY TOP & BOTTOM	(5) #5 EACH WAY BOTTOM	(5) #5 LONG WAY BOTTOM (7) #5 SHORT WAY BOTTOM
NOTES	FOOTING	THICKENED SLAB	THICKENED SLAB	THICKENED SLAB

ANCHOR BOLT EMBEDMENTS SCHEDULE			
DIAMETER	GRADE	"P"	"E"
1/2"	A307	*	10"
5/8"	A307	*	10"
3/4"	A307	*	10"
7/8"	A307	*	11"
1"	A307	*	12"
1 1/8"	A307	*	14"
1 1/4"	A307	*	15"

* CONTRACTOR COORDINATE REQUIRED PROJECTION

MARK	MINIMUM WOOD PROPERTIES					
	2x4 SPF	2x6 SPF	2x8 SYP	2x10 SYP	2x12 SYP	LAMINATED VENEER LUMBER (LVL)
Fb	775 psi	775 psi	1,200 psi	1,050 psi	975 psi	2,925 psi
Fv	135 psi	135 psi	90 psi	90 psi	90 psi	285 psi
Fc _e	1000 psi	1000 psi	1,550 psi	1,500 psi	1,450 psi	3,035 psi
Fc _s	335 psi	335 psi	565 psi	565 psi	565 psi	750 psi
E	1,100,000 psi	1,100,000 psi	1,600,000 psi	1,600,000 psi	1,600,000 psi	2,000,000 psi

NOTE: SPF - SPRUCE PINE FIR
SYP - SOUTHERN YELLOW PINE



GEORGIA MOUNTAINS HEALTH SERVICES, INC.
HIGHLAND CROSSING SOUTH TRACT G
EAST ELLIJAY, GEORGIA



ISSUE DATES
INITIAL 09-04-2020
1.
2.
3.
4.
5.
6.

JOB NO. 19-068 | D'WN TDC | CK'D BA

SO.1
SCHEDULES & NOTES

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