

story building for use as a daycare center. We assume the building will be wood framed construction with a slab-on-grade. Structural loading information for the building is not available at this time; however, we anticipate that column loads will be no greater than 25 kips and wall loads no greater than 3 kips per lineal foot. Furnished preliminary drawings prepared by Crews Engineering Services indicate a finished floor elevation of 101 feet. Existing site elevations within the proposed building area range from about 99 feet to 101 feet. The existing site conditions were observed by our drilling personnel on January 5, 2009. At the time of our site visit, the ground surface appears to have been recently cleared of trees and vegetations.

FIELD PROGRAM

The field investigation consisted of performing two (2) SPT borings each extending 15 feet below the existing ground surface. The SPT borings were performed at the approximate locations shown on the attached Field Exploration Plan. These locations were determined in the field and measured by tape and turning approximate right angles from existing features (existing trees and property corners). Therefore, the borings location should be considered only as accurate as the means and methods by which they were obtained.

Sampling and penetration procedures of the SPT borings were accomplished in general accordance with ASTM D-1586, *"Penetration Test and Split-Barrel Sampling of Soils"*, using a power rotary drill rig. The standard penetration tests were performed by driving a standard 1-3/8" I.D. and 2" O.D. split spoon sampler with a 140 pound hammer falling 30 inches. The number of hammer blows required to drive the sampler a total of 18 inches, in 6 inch increments, were recorded. The penetration resistance or "N" value is the summation of the last two 6 inch increments and is illustrated on the attached boring logs adjacent to their corresponding sample depths. The penetration resistance is used as an index to derive soil parameters from various empirical correlations. The borings were performed using a BK-51 drill rig (continuous flight auger with manual hammer).

The attached record of boring logs presents the descriptions of the subsurface conditions encountered at the time of our field program, and also provide the penetration resistances recorded during the drilling and sampling process. The stratification lines and depth designations on the boring record represent the approximate boundaries between the various soils encountered, as determined in the field by our personnel. In some cases, the transition between the various soils may be gradual.

SITE & SUBSURFACE CONDITIONS

General Area Geology/Sinkhole Potential

Published information regarding the geology in this area of Columbia County indicates the site is situated near the contact between the Statenville Formation (**Ths**) of the Miocene epoch, and the Undifferentiated Quaternary Sediments (**Qu**) of the Pleistocene and Holocene epochs. The Statenville Formation is of the Hawthorn Group and mainly consists of interbedded sands, clays and dolostones with common to very abundant phosphate grains. The sands are predominate and are light gray to olive gray, poorly indurated, phosphatic, fine to coarse grained with scattered gravel and with minor occurrences of fossils. Clays are yellowish gray to olive gray, poorly

consolidated, variably sandy and phosphatic, and variably dolomitic. The dolostones are yellowish gray to light orange, poorly to well indurated, sandy, clayey and phosphatic with scattered mollusk molds and casts.

Typically, the Undifferentiated Quaternary sediments consist of siliciclastics, organics and freshwater carbonates. The siliciclastics are light gray, tan, brown to dark, unconsolidated to poorly consolidated, clean to clayey, silty, fossiliferous, variably organic-bearing sands to blue green to olive green, poorly to moderately consolidated, sandy, silty, clays. Freshwater carbonates "marls" are buff colored to tan, unconsolidated to poorly consolidated, fossiliferous (mollusks) carbonate muds containing organics.

The limestone in this area consists of carbonate rock and its weathered residuum. Surface soil mantle is typically characterized by sands, sandy clays, or clays. In this area of Columbia County, Florida, the limestone is marked by solution features (sinkholes) associated with *karst* terrains. Areas underlain by karst terrains are prone to sinkhole activities, these sinkholes are primarily caused by an advanced state of internal soil erosion or raveling action, which under certain circumstances can lead to ground subsidences. This internal soil erosion is a very slow process by which soil particle usually migrate under the influence of a hydraulic gradient to underlying karsted and/or fractured limestone formation. There are several indicators generally associated with an advanced state of long term internal soil erosion such as noticeable surface depressions and very loose to soft soil zones just above the rock formation. In summary, and based on our site observations and the results of the test borings, it is our opinion the proposed construction will have no greater risk of damage due to sinkhole activity than the development of structures in other areas within the immediate vicinity of the subject site.

Subsurface Soil Conditions

In general, the soil profile as disclosed by SPT borings B-1 and B-2 initially consisted of about 3½ to 4 feet of brownish tan silty fine sand (SP-SM). This surface cover is underlain by about 5½ to 8 feet of yellowish tan slightly silty fine sand (SP). Beneath this stratum, the soil profile consisted of about 3 to 6 feet of light gray clayey sand (SC). These soils vary from very loose to dense with a penetration resistance or "N" values ranging from 3 to exceeding 41 Blows Per Foot (BPF).

For a more detailed description of the subsurface conditions encountered, please refer to the attached Record of Boring Logs.

Groundwater

The depth to the groundwater was measured at the boring locations at the time drilling was completed. The groundwater table was not encountered in any of the test borings. We note that due to the relatively short time frame of the field exploration, the groundwater may not have had sufficient time to stabilize. For a true "stabilized" groundwater level reading, piezometers may be required. In any event, fluctuation in groundwater levels should be anticipated due to seasonal climatic conditions, construction activities, rainfall variations, surface water runoff, and other site-specific factors.

RECOMMENDATIONS FOR FOUNDATION DESIGN & SITE PREPARATION

Foundation Support

The test borings indicated the presence of very loose soils within the upper 4 feet of the existing ground surface. The majority of these soils are considered suitable for reuse as structural fill, however, they are not considered acceptable for the support of the proposed building in their current conditions. To improve the density of the supporting soils, the upper 3 feet of the site soils within the building and pavement areas (including 5 feet outside the perimeter of the building) should be recompacted as indicated herein.

Provided the foundation and site soils are prepared in accordance with the guidelines presented in this report, it is our opinion the proposed structure may be supported on a conventional shallow foundation system. The shallow foundation may be designed for an allowable bearing pressure of 2,500 pounds per square foot (psf) or less on recompacted soils or newly placed structural fill.

In using net pressures, the weight of the footing and backfill over the footing need not be considered. Hence, only loads applied at or above final grade need to be used for dimensioning footings. However, wall bearing footings should be designed with a minimum width of 18 inches, while the individual column footings should have minimum dimensions of 2 feet by 2 feet.

Settlement Analyses

Actual magnitude of settlement that will occur beneath foundations will depend upon variations within the subsurface soil profile, actual structural loading conditions, embedment depth of the footings, actual thickness of compacted fill or cut, and the quality of the earthwork operations. Assuming the foundation related site work and foundation design is completed in accordance with the enclosed recommendations, we estimate the total settlement of the structure will be on the order of 1 inch or less. Differential settlements (between adjacent columns or along the length of a continuous wall footing) should be approximately one-half of the total settlement. This settlement is primarily the result of elastic compression of the upper looser sands, and should occur almost immediately following the application of the structural dead load during construction.

Uplift Resistance

Under wind loading conditions, the foundations will likely be subjected to considerable uplift forces. In order to resist these uplift forces, it may be necessary to increase the footing size (thus increasing the dead weight) or lower the footing to mobilize additional soil weight above the footing. Uplift resistance from the soil may be evaluated as the weight of the soil directly above the footing, plus the shearing resistance along the vertical face of the soil prism. Alternately, the available soil uplift resistance may be calculated as the weight of the soil prism defined by the diagonal line drawn from the top of the footing to the ground surface at an angle of 30 degrees with the vertical. We recommend that a total unit weight of 100 pcf (compacted to 95% of the modified Proctor maximum dry density) be used for well-compacted, suitable fill. Should the bottom of any structure be below the stabilized seasonal-high groundwater level, these structures must be properly designed to resist the resulting uplift forces due to hydrostatic pressures.

Lateral Resistance

Lateral loads created by wind may be resisted by the passive pressure of the soil acting against the side of the individual footings and/or the friction developed between the base of the foundation system and the underlying soils. For compacted backfill and/or in-situ material, the passive pressure may be taken as an equivalent to the pressure exerted by a fluid weighing 300 pcf for above the groundwater table and 112 pcf below water level. A coefficient of friction equal to 0.4 may be used for calculating the frictional resistance at the base of the shallow footings. The resistance values discussed herein are based on the assumption that the foundations can withstand horizontal movements on the order of ¼ inch. Lateral resistance determined in accordance with the recommendations provided herein should be considered the total available resistance. Consequently, the design should include a minimum factor of safety of 1.5.

Lateral Earth Pressures

Generally, retaining walls will be subjected to "at-rest" or "active" pressures. Retaining walls that are restrained at the top will be subject to "at-rest" pressures due to their restricted movement. The "at-rest" pressures may be calculated as the equivalent pressure exerted by a fluid density of 50 pcf. Where walls are not restrained at the top and thus allowed sufficient movement to mobilize "active" pressures, an equivalent fluid density of 33 pcf should be used in the design.

These values may be used only for walls above the groundwater table. The presence of any groundwater due to surface water intrusion should be handled with the use of a drainage layer behind the walls with a collection pipe discharging accumulated water away from the walls. If this is not practical, then the hydrostatic pressure due to water should be included in the design of the walls.

Drainage Considerations

Adequate drainage should be provided at the site in order to minimize increase in moisture content of the foundation soils. Excessive moisture can significantly reduce the soils bearing capacity and contribute to foundation settlement. For the protection of the foundation soils, we recommend the ground water surface be sloped away from all proposed structures.

Floor Slab

All unsuitable material (such as topsoil, organics, etc.) located within the building area (**including 5 feet outside the perimeter of the building**) should be overexcavated and removed. The exposed subgrade should be recompact and proofrolled with a fully-loaded, tandem-axle dump-truck or similar pneumatic-tired equipment. Provided the recompact and proofrolling operations do not indicate significant deflecting or pumping of the existing subgrade, the floor slab may be designed as a slab-on-grade. Any soft or loose soils found during the proofrolling operation should be undercut and/or replaced with suitable, well-compacted, engineered fill.

Floor slabs should be supported on at least 4 inches of relatively clean granular material, such as sand, sand and gravel, or crushed stone. This is to help distribute concentrated loads and equalize moisture beneath the slab. This granular material should have 100 percent passing the 1½ -inch sieve and a maximum of 10 percent passing the No. 200 sieve.

Based upon the soil conditions encountered at the subject site, the anticipated fill placement, and the recommended site preparation operations presented in this report, a modulus of vertical subgrade reaction (k) for the slab bearing soils of 150 pounds per square inch per inch of vertical deflection (pci) may be used. These recommendations are based on finished subgrade elevations being at or near (within 1 foot) the existing ground surface.

Exposed Subgrade

Following excavation and backfilling, exposed soils in the building and pavement areas should be compacted with overlapping passes of a relatively heavy weight vibratory drum roller having a total operating static weight (weight of fuel and water included) of at least 10 tons and a drum diameter of 5 feet. All exposed surfaces should be compacted to a minimum of 95 percent of the modified Proctor maximum dry density (ASTM D-1557) to a depth of at least 12 inches below the compacted surface.

Structural Fill/Backfill

Structural fill should be placed in thin loose lifts not exceeding 12 inches in thickness and compacted with a heavy roller as described above. For walk-behind equipment, a maximum loose lift thickness of 6 inches is recommended. Each lift should be thoroughly compacted with the vibratory roller to provide densities equivalent to at least 95 percent of the modified Proctor maximum dry density (ASTM D-1557). Structural fill should consist of an inorganic, non-plastic, granular soil containing less than 10 percent material passing the No. 200 mesh sieve (relatively clean sand with a Unified Soil Classification of SP or SP-SM).

We note that due to the varying density of the upper soils, it is recommended the exposed subgrade be proofrolled and proof-compacted to a depth of 4 feet below the existing grade prior to concrete placement (including bottom of footings and slab areas). This may require the overexcavation and recompaction of the upper 3 feet of the existing soils. All soils should be proof-compacted to a minimum of 95% of the modified Proctor maximum dry density (ASTM D-1557).

Compaction of exposed soils in deeper excavations may cause pumping and/or yielding of the soils being compacted. The instability is caused by excess pore water pressure build-up in the subgrade soils being compacted. To allow this excess pore water pressure to dissipate, the contractor may temporarily halt the compaction operation or disengage the vibratory action of the compaction equipment. In any event, it is recommended to maintain a distance of at least two feet between the groundwater level and the compaction surface.

General Statements About Carbonate Terrains

Major topographic changes in surface or groundwater patterns in carbonate terrains can sometimes induce sinkholes. Therefore, it is recommended the site grades should follow the existing topography as much as possible. In addition, no water wells should be installed within the site influence area, as pumping from these wells will cause groundwater fluctuations and may induce sinkholes. It must be understood that this exploration was not intended to predict or preclude future sinkholes from occurring/developing at this site or within the vicinity of the subject site.

Report Limitations

This report has been prepared for the exclusive use of **Trademark Construction Group, Inc. of Lake City, Florida** for the specific application to the project discussed herein. Our conclusions and recommendations have been rendered using generally accepted standards of geotechnical engineering practice in the State of Florida, no other warranty is expressed or implied. **CTI** is not responsible for the interpretations, conclusions, opinions, or recommendations of others based on the data contained herein. We note that assessment of environmental conditions for the presence of pollutants in the soil, rock, or groundwater at the site was beyond the scope of the exploration. Field observations, monitoring, and quality assurance testing during earthwork and foundation installation are an extension of the geotechnical design. We recommend that the owner retain these services and that **CTI** be allowed to continue our involvement in the project through these phases of construction. During construction, we accept no responsibility for job site safety; which is the sole responsibility of the contractor.

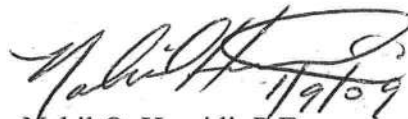
Closing

We appreciate the opportunity to work with you on this project, and look forward to serving as your geotechnical and construction materials testing consultant for the remainder of this and future projects. Should you have any questions and/or comments concerning this report, please contact our office at 386-755-3633.

Respectfully submitted,
Cal-Tech Testing, Inc.



David B. Brown
Executive Vice President

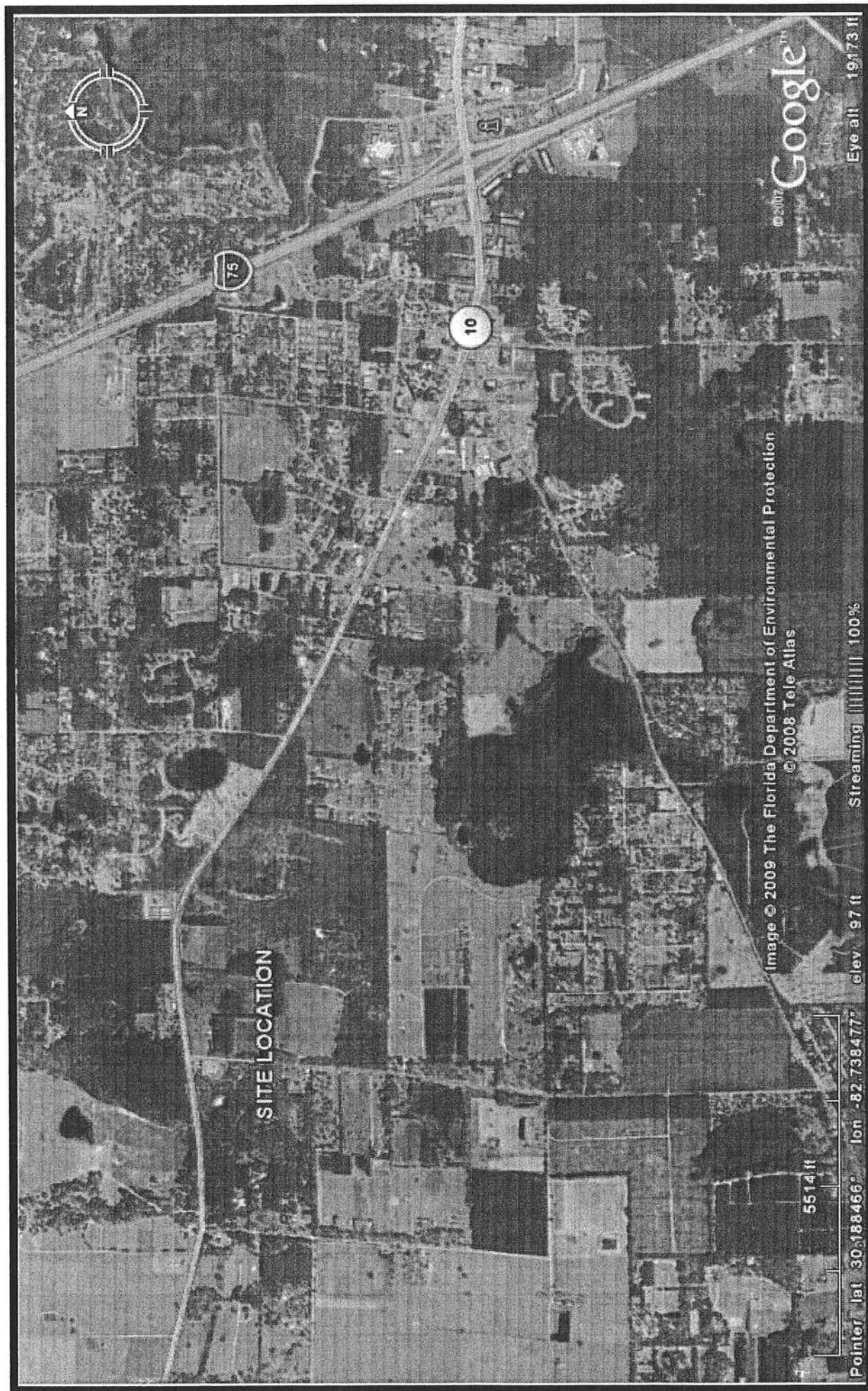


Nabil O. Hmeidi, P.E.
Senior Geotechnical Engineer
Licensed, Florida No. 57842

Distribution: File (1 copy)
Addressee (2 bound copies)

Attachments: Vicinity Map
Field Exploration Plan
Record of Boring Logs
Unified Soil Classification System
Key To Test Data

ATTACHMENTS



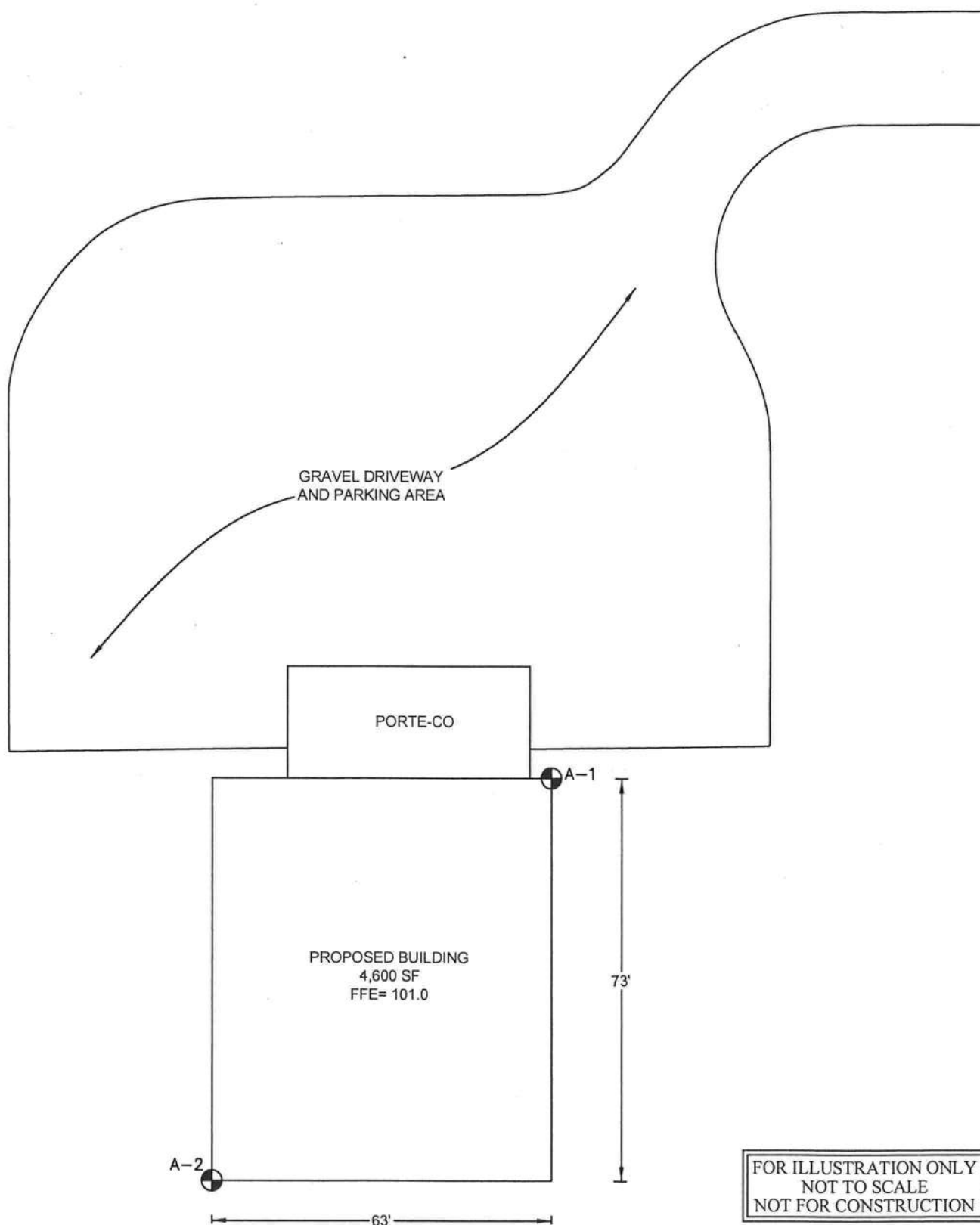
CAL-TECH TESTING, INC.

P.O. Box 1625
Lake City, Florida 32056-1625
Phone: (386) 755-3633
Fax: (386) 752-5456

VICINITY MAP

Heart 2 Heart Academy – Subsurface Exploration
388 SW Birley Avenue
Lake City, Columbia County, Florida
Cal-Tech Testing Project No. 09-00002-01

Figure 1



● Standard Penetration Test Borings by CTI on 01/05/2009

SUBSURFACE EXPLORATION
HEART 2 HEART ACADEMY
388 SW BIRLEY AVENUE
LAKE CITY, COLUMBIA COUNTY, FLORIDA

CAL-TECH TESTING, INC.
P.O. Box 1625
Lake City, Florida 32056-1625
Phone: (386) 755-3633
Fax: (386) 752-5456

FIELD EXPLORATION PLAN

Project No. 09-00002-01		DATE: 01/06/2009	FIGURE: 2
DRAWN:	APPROVED:	SCALE: N.T.S.	SHEET: 1/1



CAL-TECH TESTING, INC.
3309 SW SR 247
Lake City, Florida 32024
Telephone: (386) 755-3633
Fax: (386) 752-5456

BORING NUMBER B-1

PAGE 1 OF 1

CLIENT Trademark Construction Group, Inc.

PROJECT NAME Heart 2 Heart Daycare

PROJECT NUMBER 09-00002-01

PROJECT LOCATION 388 SW Birley Avenue, Lake City, Florida

DATE STARTED 01/05/09 COMPLETED 01/05/09

GROUND ELEVATION 100 ft HOLE SIZE _____

DRILLING CONTRACTOR Cal-Tech Testing, Inc.

GROUND WATER LEVELS:

DRILLING METHOD Split Spoon Sampling

AT TIME OF DRILLING ---

LOGGED BY N.H. CHECKED BY _____

AT END OF DRILLING --- Not Encountered

NOTES BK-51 (manual hammer)

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	▲ SPT N VALUE ▲			
								20	40	60	80
								PL	MC	LL	
0								20	40	60	80
		VERY LOOSE to LOOSE, brownish tan, silty fine sand (SP-SM)									
			SPT 1	100	2-3-3 (6)						
			SPT 2	100	2-2-2 (4)						
5		VERY LOOSE to MEDIUM DENSE, yellowish tan, slightly silty fine sand (SP)									
			SPT 3	100	2-2-2 (4)						
			SPT 4	100	2-2-2 (4)						
			SPT 5	100	2-3-3 (6)						
			SPT 6	100	3-3-9 (12)						
10											
		DENSE, light gray, clayey sand (SC)									
			SPT 7	100	10-18-23 (41)						
15											

Bottom of borehole at 15.0 feet.



PAGE 1 OF 1

PROJECT NAME Heart 2 Heart Daycare

PROJECT LOCATION 388 SW Birley Avenue, Lake City, Florida

GROUND ELEVATION 100 ft HOLE SIZE

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

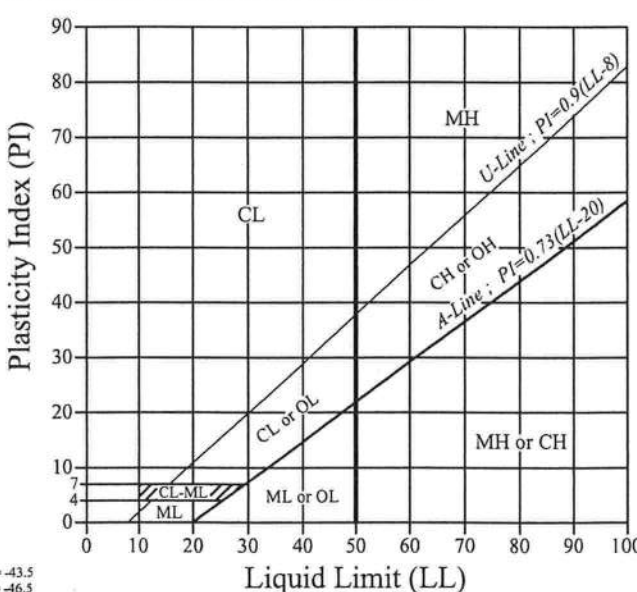
AT END OF DRILLING --- Not Encountered

AFTER DRILLING ---

Bottom of borehole at 15.0 feet.

UNIFIED SOIL CLASSIFICATION SYSTEM

ASTM DESIGNATION D-2487

MAJOR DIVISIONS			GROUP SYMBOL	TYPICAL NAMES	LABORATORY CLASSIFICATION CRITERIA							
COARSE GRAINED SOILS (More than half of the material is larger than No. 200 sieve)	Gravels (more than half of the coarse fraction is larger than No. 4 sieve)	Clean gravels	GW	Well-graded gravels, gravel-sand mixtures, little or no fines.	$C_u = \frac{D_{60}}{D_{10}} > 4 \ ; \ 1 < C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}} < 3$							
			GP	Poorly graded gravels, gravel-sand mixture, little or no fines.	Not meeting all gradation requirements of GW							
		Gravel with fines	GM	Silty gravels, gravel-sand-silt mixtures.	Atterberg Limits below A-Line or PI less than 4	Above A-Line with PI between 4 and 7 are borderline cases requiring the use of dual symbols.						
			GC	Clayey gravels, gravel-sand-clay mixtures.	Atterberg Limits above A-Line or PI greater than 7							
	Sands (more than half of the coarse fraction is smaller than No. 4 sieve)	Clean sands	SW	Well-graded sands, gravelly sands, little or no fines.	$C_u = \frac{D_{60}}{D_{10}} > 6 \ ; \ 1 < C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}} < 3$							
			SP	Poorly graded sands, gravelly sands, little or no fines.	Not meeting all gradation requirements of SW							
		Sands with fine	SM	Silty sands, sand-silt mixtures.	Atterberg Limits below A-Line or PI less than 4	Limits plotting in hatched zone with PI between 4 and 7 are borderline cases requiring the use of dual symbols.						
			SC	Clayey sands, sand-clay mixtures.	Atterberg Limits above A-Line or PI greater than 7							
	Determine percentage of sand and gravel from grain size curve Depending on percentage of fines (fraction smaller than No. 200 Sieve size), coarse grained soils are classified as follows: Less than 5% GW, GP, SW, SP More than 12% ... GM, GC, SM, SC 5 to 12% Borderline cases requiring dual symbols											
	FINE GRAINED SOILS (More than half of the material is finer than No. 200 sieve)	Silts and Clays (LL less than 50)	ML	Inorganic silts, very fine sands, rock flour, silty or clayey fine sands, or clayey silts with slight plasticity.	PLASTICITY CHART 1. Plot intersection of PI as determined by the Atterberg Limits tests. 2. Points plotted above the A-Line indicate clay soils. 3. Points plotted below the A-Line indicate silt. 							
CL			Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clay.									
OL			Organic silts and organic silty clays of low plasticity.									
Silts and Clays (LL greater than 50)		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.									
		CH	Inorganic clays of high plasticity, fat clay.									
		OH	Organic clays of medium to high plasticity, organic silts.									
Highly Organic Soils		Pt	Peat and other highly organic soils.									
CAL-TECH TESTING, INC. P.O. Box 1625 Lake City, Florida 32056-1625 Phone: 386-755-3633 Fax: 386-752-5456									5% Max. Passing the U.S. No. 200 Sieve SP 5% - 12% Passing the U.S. No. 200 Sieve SP-SM 12% - 50% Passing the U.S. No. 200 Sieve SM/SC			

KEY TO TEST DATA

STANDARD PENETRATION TEST:

Soil sampling and penetration testing is performed in accordance with ASTM D-1586. The standard penetration resistance ("N") is the number of blows of a 140-pound hammer falling 30 inches to drive a 2-inch O.D., 1.4-inch I.D. split spoon sampler one foot.

ROCK CORE DRILLING:

Rock sampling and core drilling is performed in accordance with ASTM D-2113. The rock quality designation percentage (RQD) is determined by summing only pieces of core that are at least 4 inches long, and dividing by the "run" length.

Relation of RQD and In-situ Rock Quality	
RQD (%)	Rock Quality
90 - 100	Excellent
75 - 90	Good
50 - 75	Fair
25 - 50	Poor
0 - 25	Very Poor

RELATIVE DENSITY (SANDS):

Very loose - less than 4 blows/ft.

Loose - 5 to 10 blows/ft.

Medium - 11 to 30 blows/ft.

Dense - 31 to 50 blows/ft.

Very dense - over 50 blows/ft.

CONSISTENCY (SILTS & CLAYS):

Very soft - less than 2 blows/ft.

Soft - 3 to 4 blows/ft.

Medium stiff - 5 to 8 blows/ft.

Stiff - 9 to 15 blows/ft.

Very stiff - 16 to 30 blows/ft.

Hard - 31 to 50 blows/ft.

Very hard - over 50 blows/ft.

HARDNESS (ROCKS):

Soft - Rock core crumbles when handled.

Medium - Can break core with hands.

Moderately hard - Thin edges of rock core can be broken with fingers.

Hard - Thin edges of core can not be broken with fingers.

Very hard - Can not be scratched with knife.

GROUNDWATER:

Water levels shown on boring logs are taken immediately upon completion of boring, and are intended for general information. The apparent level may have been altered by the drilling process. Groundwater levels, if desired, can be monitored over a long time interval.

CAL-TECH TESTING, INC.

P.O. Box 1625

Lake City, Florida 32056-1625

Phone: 386-755-3633 Fax: 386-752-5456

5% Max. Passing the U.S. No. 200 Sieve SP

5% - 12% Passing the U.S. No. 200 Sieve SP-SM

12% - 50% Passing the U.S. No. 200 Sieve SM/SC

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID: ITYZ8228Z0102102337

Truss Fabricator: Anderson Truss Company
Job Identification: 10-025--Fill in later TRADEMARK CONST./HART 2 H -- , **
Truss Count: 2
Model Code: Florida Building Code 2007 and 2009 Supplement
Truss Criteria: FBC2007Res/TPI-2002(STD)
Engineering Software: Alpine Software, Version 9.02.
Structural Engineer of Record: The identity of the structural EOR did not exist as of
Address: the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-05 -Closed

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR8228

Details: BRCLBSUB-A1101505-GBLLETIN-

#	Ref	Description	Drawing#	Date
1	69999--A		10033001	02/02/10
2	70000--AGE		10033002	02/02/10

- 4 WEB BRACES
EACH "A" TRUSS



Seal Date: 02/02/2010

-Truss Design Engineer-
Doug Fleming
Florida License Number: 66648
1950 Marley Drive
Haines City, FL 33844



73'

[illegible]

JOB NO:
10-025

PAGE NO:
1 OF 1

TRADEMARK CONSTRUCTION/HART 2 HART ACADEMY

Top chord 2x6 SP #2
Bot chord 2x6 SP #2
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

Calculated horizontal deflection is 0.15" due to live load and 0.13" due to dead load.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load.

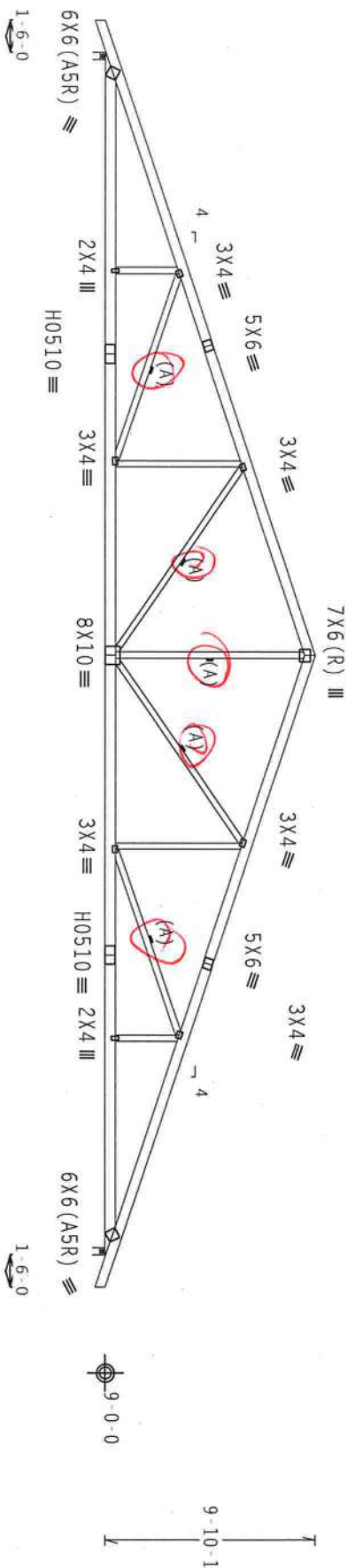
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, located anywhere in roof, CAT II, Exp C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, lw=1.00 Gcpl(+/-)=0.18

Wind reactions based on MMFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



R=2498 U=640 W=4"
RL=347/-347

R=2498 U=640 W=4"

PLT TYP. 20 Gauge HS.Wave

Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=10%(0%/0/0)

9.02.00

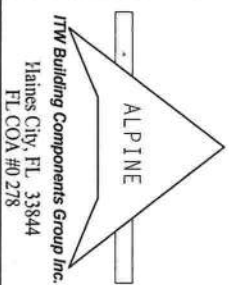
QTY:36 FL/-/4/-/R/-

Scale = .125"/ft.

WARNING TRUSSES REQUIRE EXTENSIVE CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RES. (INCLUDING COMPROMISE SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 210 ENTERPRISE LANE, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN COMPLIANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN COMPLIANCE WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. ITW BCG PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY DEVIATION OF PLATES FOLLOWED BY (1) SHALL BE PER AIAA 3.3 OR TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWS THE STABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AIAA/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R8228- 69999
TC DL	10.0 PSF	DATE 02/02/10
BC DL	10.0 PSF	DRW HCUSR8228 10033001
BC LL	0.0 PSF	HC-ENG DF/DF
TOT.LD.	40.0 PSF	SEON- 84419
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TYZ8228Z01


```
:Stack Chord SC1 2x4 SP #2 Dense::Stack Chord SC2 2x4 SP #2 Dense::
```

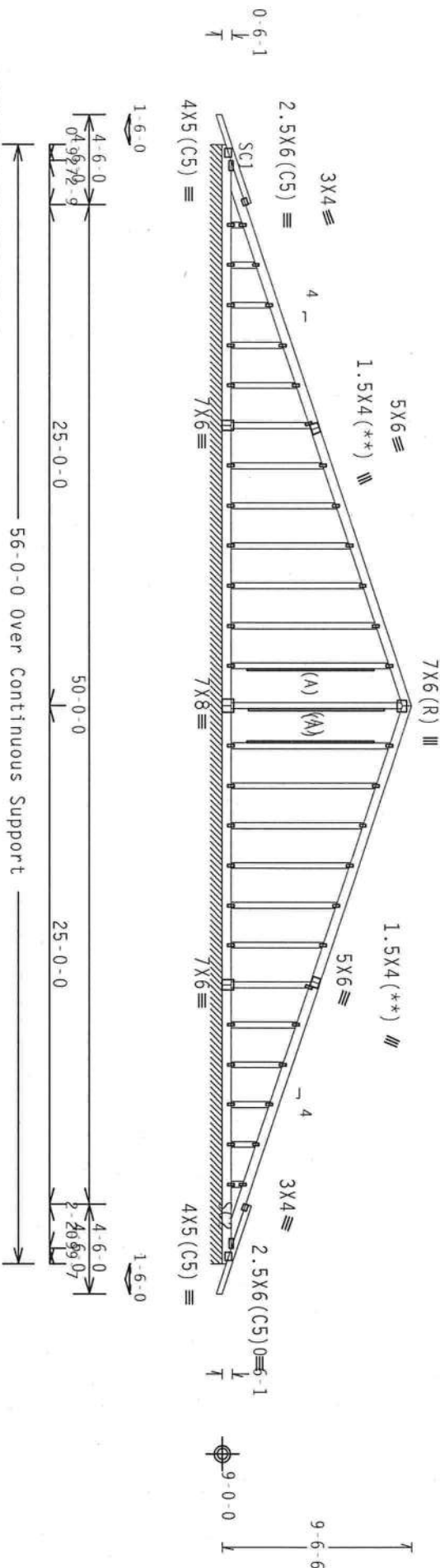
Roof overhang supports 2.00 psf soffit load.

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (5c) to dropped top chord in notchable area using 3x4 tie plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

Deflection meets $L/240$ live and $L/180$ total load.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF, FLOOR AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS AND SUPPORTING SHEAR WALLS. DIAPHRAGMS AND SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS ARE TO BE PROVIDED BY THE BUILDING DESIGNER.



R=133 PLF U=26 PLF W=56-0-0
RL=7/-7 PLF

Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: FBC2007Res/TPI-2002(STD)

PLT TYP. Wave

$$FT/RT=10\%(0\%)/0(0)$$

9.02.00

QTY:2

FL/-/4/-/-/R/-/

Scale = .125" / Ft.

WARNING—PRIEST'S PRICES OF EXISTING CAME IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO 86251 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY THE FIBRE PAPER INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314 AND WFLA (4080 TRUSS COMPANY OF AMERICA, 6200 UNIVERSITY AVE., SUITE 501, MIAMI, FL 33139) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE ACTIONS. UNLESS OTHERWISE INDICATED THE TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

ALPINE

ITW Building Components Group Inc

Haines City, FL 33844

FL COA #0278

(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, $I_w=1.00$ Gcpi (+/-)-0.18

Wind reactions based on MWFRS pressures.

See DWGS A11015050109 & GBULLETIN0109 for more requirements.

(A) 1x4 #3SRB SPF-S or better "L" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.) nails @ 6" OC.

In lieu of structural panels use purlins to brace TC @ 24" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



TC LL	20.0 PSF	REF	R8228- 70000
TC DL	10.0 PSF	DATE	02/02/10
BC DL	10.0 PSF	DRW	HCUSR8228 10033002
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	84429
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TYZ8228Z01

CLB WEB BRACE SUBSTITUTION

THIS DETAIL IS TO BE USED WHEN CONTINUOUS LATERAL BRACING (CLB) IS SPECIFIED ON A TRUSS DESIGN BUT AN ALTERNATIVE WEB BRACING METHOD IS DESIRED.

NOTES:

THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED CLB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB BRACING.

ALTERNATIVE BRACING SPECIFIED IN CHART BELOW MAY BE CONSERVATIVE. FOR MINIMUM ALTERNATIVE BRACING, RE-RUN DESIGN WITH APPROPRIATE BRACING.

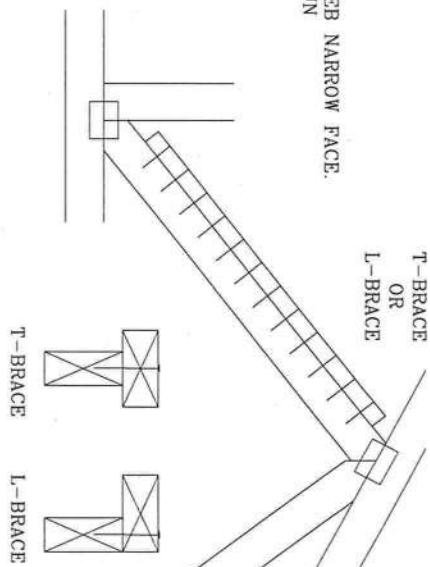
WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

T-BRACE, L-BRACE AND SCAB BRACE TO BE SAME SPECIES AND GRADE OR BETTER THAN WEB MEMBER UNLESS SPECIFIED OTHERWISE ON ENGINEER'S SEALED DESIGN.

(*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.

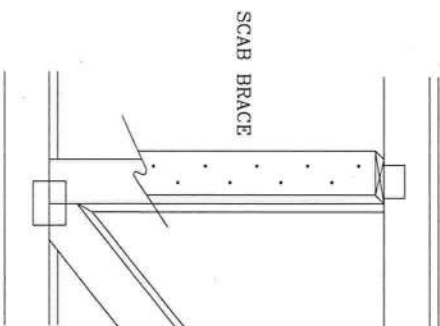
T-BRACING
OR
L-BRACING:

APPLY TO EITHER SIDE OF WEB NARROW FACE.
ATTACH WITH 10d BOX OR GUN
(0.128" x 3." MIN) NAILS.
AT 6" O.C.
BRACE IS A
MINIMUM 80% OF WEB
MEMBER LENGTH



SCAB BRACING:

APPLY SCAB(S) TO WIDE FACE OF WEB.
NO MORE THAN (1) SCAB PER FACE.
ATTACH WITH 10d BOX OR GUN
(0.128" x 3." MIN) NAILS.
AT 6" O.C.
BRACE IS A MINIMUM
80% OF WEB MEMBER LENGTH



Building Components Group Inc.

Earth City, MO 63045

****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET**
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow BCSI (Building Component Safety Information, by TPI and WTC) for safety practices prior to performing these functions. Truss manufacturer shall provide temporary bracing per BCSI. Unless noted otherwise, top chord bracing shall be installed and secured before any other bracing is installed. All bracing shall be installed in accordance with the locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3 & B7. See this job's general notes page for more information.

****IMPORTANT** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR.**
The Building Components Group, Inc. (BTBCG) shall not be responsible for any deviation from this design, including but not limited to, the use of materials, methods, or equipment not specified herein. The BTBCG shall not be responsible for any damage to or destruction of the building or its contents, or for any injury to or death of any person, arising out of the use of this design. A seal on this drawing or cover page indicates acceptance and professional engineering responsibility solely for the truss component design shown. The suitability and use of this component for any building is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2.
BTBCG: www.btcg.com TPI: www.tpi.com WTC: www.wtcindustry.com ICC: www.iccsafe.org

DOUGLAS FLEMING
LICENSE
02Nd:06648

Feb 02

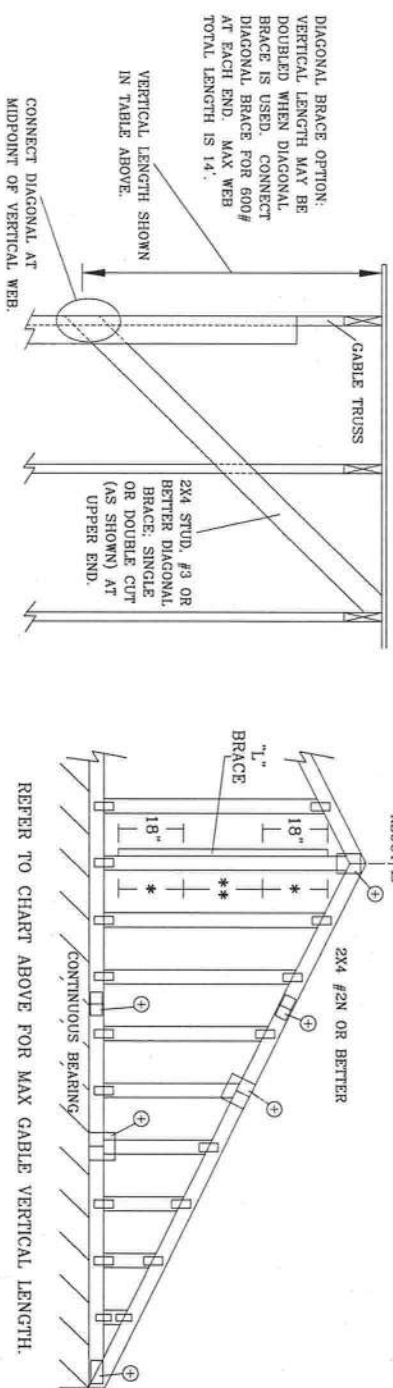


TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	1/1/09
BC DL	PSF	DRWG	BRCLBSUB0109
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

ASCE 7-05: 110 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C, Kzt = 1.00

GABLE STUD REINFORCEMENT DETAIL

MAX GABLE VERTICAL LENGTH																
SPACING	CABLE VERTICAL SPECIES	2x4 BRACE	GRADE	NO BRACES	(1) 1x4 "L" BRACE •		(1) 2x4 "L" BRACE •		(2) 2x4 "L" BRACE ••		(1) 2x6 "L" BRACE •		(2) 2x6 "L" BRACE •			
					GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B		
12" O.C.	SPF	#1 / #2	STUD	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 8"	12' 5"	12' 9"	14' 0"	14' 0"		
				3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	14' 0"	14' 0"			
				3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 3"	12' 3"	14' 0"	14' 0"		
	HF	STANDARD	3' 9"	5' 2"	5' 2"	6' 9"	6' 9"	9' 1"	9' 1"	10' 7"	10' 7"	14' 0"	14' 0"			
			4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"			
			4' 2"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"			
SP	#1 / #2	STUD	4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"			
			4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"			
			4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"			
16" O.C.	SPF	#1 / #2	STUD	3' 10"	6' 1"	6' 1"	7' 11"	8' 0"	9' 5"	9' 11"	12' 5"	12' 6"	14' 0"	14' 0"		
				3' 10"	6' 1"	6' 1"	7' 11"	8' 0"	9' 5"	9' 11"	12' 5"	12' 6"	14' 0"	14' 0"		
				3' 10"	6' 1"	6' 1"	7' 11"	8' 0"	9' 5"	9' 11"	12' 5"	12' 6"	14' 0"	14' 0"		
	HF	STANDARD	4' 4"	7' 8"	7' 8"	9' 1"	9' 4"	10' 10"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"			
			4' 4"	7' 8"	7' 8"	9' 1"	9' 4"	10' 10"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"			
			4' 4"	7' 8"	7' 8"	9' 1"	9' 4"	10' 10"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"			
SP	#1 / #2	STUD	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"			
			4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"			
			4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"			
24" O.C.	SPF	#1 / #2	STUD	4' 4"	6' 4"	6' 4"	8' 4"	8' 4"	10' 10"	10' 10"	12' 11"	12' 11"	14' 0"	14' 0"		
				4' 4"	6' 4"	6' 4"	8' 4"	8' 4"	10' 10"	10' 10"	12' 11"	12' 11"	14' 0"	14' 0"		
				4' 4"	6' 4"	6' 4"	8' 4"	8' 4"	10' 10"	10' 10"	12' 11"	12' 11"	14' 0"	14' 0"		
	HF	STANDARD	4' 10"	7' 8"	7' 8"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"			
			4' 10"	7' 8"	7' 8"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"			
			4' 10"	7' 8"	7' 8"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"			
SP	#1 / #2	STUD	4' 9"	7' 8"	7' 8"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"			
			4' 9"	7' 8"	7' 8"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"			
			4' 9"	7' 8"	7' 8"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"			
12" O.C.	SPF	#1 / #2	STUD	4' 5"	6' 5"	6' 5"	8' 6"	8' 6"	10' 10"	11' 1"	13' 3"	13' 3"	14' 0"	14' 0"		
				4' 5"	6' 5"	6' 5"	8' 6"	8' 6"	10' 10"	11' 1"	13' 3"	13' 3"	14' 0"	14' 0"		
				4' 5"	6' 5"	6' 5"	8' 6"	8' 6"	10' 10"	11' 1"	13' 3"	13' 3"	14' 0"	14' 0"		
	HF	STANDARD	4' 11"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"			
			4' 11"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"			
			4' 11"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"			
SP	#1 / #2	STUD	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"				
			4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"				
			4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"				
DFL	STANDARD	4' 9"	7' 3"	7' 3"	9' 7"	9' 7"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"				
		4' 9"	7' 3"	7' 3"	9' 7"	9' 7"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"				
		4' 9"	7' 3"	7' 3"	9' 7"	9' 7"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"				



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2.5X4
GREATER THAN 11' 6"	3X4

ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2' O.C.
** FOR (2) "L" BRACES: SPACE NAILS AT 3' O.C.
IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.
"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS $L/240$.
PROVIDE UPLIFT CONNECTIONS FOR 80 PSF OVER CONTINUOUS BEARING (6 PSF TO DEAD LOAD).
CABLE END SUPPORTS LOAD FROM 4' 0" OUTDOORS WITH 2' 0" OVERHANG, OR 12" PLANTWOOD OVERHANG.

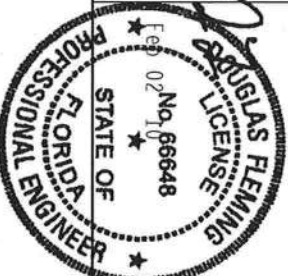
BRACING GROUP SPECIES AND GRADES:	
GROUP A:	
SPRUCE-PINE-FIR	HEM-FIR
#1 / #2 STANDARD	#2 STUD
#3 STUD	#3 STANDARD
DOUGLAS FIR-LARCH	
#3 STUD	#3 STUD
STANDARD	STANDARD
GROUP B:	
HEM-FIR	DOUGLAS FIR-LARCH
#1 & BTR	#1
#1	#2
SOUTHERN PINE	
#1	#2



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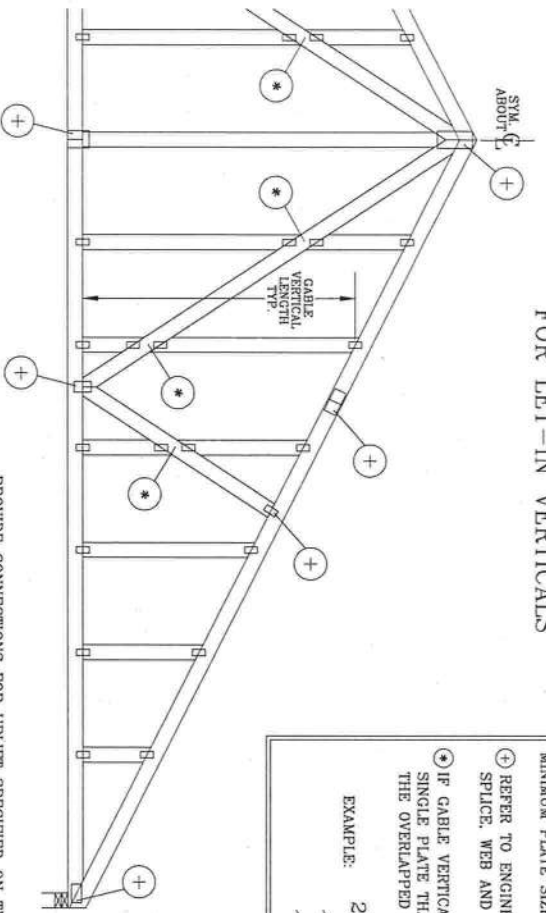
Earth City, MO 63045

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IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR.
The Building Components Group Inc. (BCCI) shall not be responsible for any deviation from this design, including but not limited to, the use of materials, methods of construction, or any other aspect of the design. BCCI's liability is limited to the design of the truss component shown. The suitability and use of this component for any building is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2.
BCCI: www.bccig.com, TPI: www.tpi.com, WTC: www.wtcindustry.com, ICC: www.iccsafe.org



REF	ASCE7-05-CAB11015
DATE	1/1/09
DRWG	A11015050109
MAX. TOT. LD.	60 PSF
MAX. SPACING	24.0"

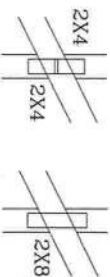
CABLE DETAIL FOR LET-IN VERTICALS



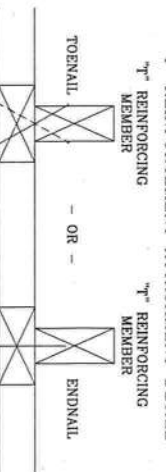
GABLE TRUSS PLATE SIZES

- REFER TO APPROPRIATE ITW GABLE DETAIL FOR MINIMUM PLATE SIZES FOR VERTICAL STUDS.
- REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.
- IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE THAT COVERS THE TOTAL AREA OF THE OVERLAPPED PLATES TO SPAN THE WEB.

EXAMPLE:



"T" REINFORCEMENT ATTACHMENT DETAIL



TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" INCREASE BY LENGTH (BASED ON APPROPRIATE ITW GABLE DETAIL).

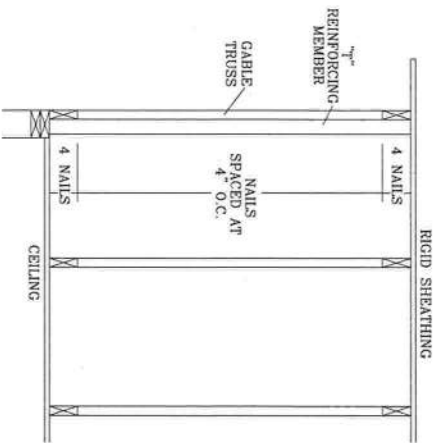
MAXIMUM ALLOWABLE "T" REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

WEB LENGTH INCREASE W/ "T" BRACE

WIND SPEED AND MRH	"T" REINF. MBR. SIZE	"T" INCREASE
140 MPH	2x4	10 %
15 FT	2x6	50 %
140 MPH	2x4	10 %
30 FT	2x6	50 %
130 MPH	2x4	10 %
15 FT	2x6	50 %
130 MPH	2x4	10 %
30 FT	2x6	50 %
120 MPH	2x4	10 %
15 FT	2x6	50 %
120 MPH	2x4	10 %
30 FT	2x6	50 %
110 MPH	2x4	10 %
15 FT	2x6	40 %
110 MPH	2x4	10 %
30 FT	2x6	50 %
100 MPH	2x4	20 %
15 FT	2x6	30 %
100 MPH	2x4	10 %
30 FT	2x6	40 %
90 MPH	2x4	20 %
15 FT	2x6	20 %
90 MPH	2x4	20 %
30 FT	2x6	30 %

EXAMPLE:

ASCE WIND SPEED = 100 MPH
MEAN ROOF HEIGHT = 30 FT. $K_{zt} = 1.00$
GABLE VERTICAL = 24" O.C. SP #3
"T" REINFORCING MEMBER SIZE = 2x4
"T" BRACE INCREASE (FROM ABOVE) = 10% = 1.10
(1) 2x4 "T" BRACE LENGTH = 6' 7"
MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH
1.10 x 6' 7" = 7' 3"



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.
ATTACH EACH "T" REINFORCING MEMBER WITH
END DRIVEN NAILS:
10d COMMON (0.148" X 3.3" MIN) NAILS AT 4" O.C. PLUS
(4) NAILS IN TOP AND BOTTOM CHORD.
TOENAILED NAILS:
10d COMMON (0.148" X 3.3" MIN) TOENAILS AT 4" O.C. PLUS
(4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ITW GABLE DETAIL FOR ASCE WIND LOAD.

ASCE 7-98 GABLE DETAIL, DRAWINGS
A13015980109, A12015980109, A11015980109, A10015980109,
A13030980109, A12030980109, A11030980109, A10030980109
ASCE 7-02 GABLE DETAIL, DRAWINGS
A13015020109, A12015020109, A11015020109, A10015020109, A14015020109,
A13030020109, A12030020109, A11030020109, A10030020109, A14030020109
ASCE 7-05 GABLE DETAIL, DRAWINGS
A13015050109, A12015050109, A11015050109, A10015050109, A14015050109,
A13030050109, A12030050109, A11030050109, A10030050109, A14030050109
SEE APPROPRIATE ITW GABLE DETAIL FOR MAXIMUM
UNREINFORCED GABLE VERTICAL LENGTH.



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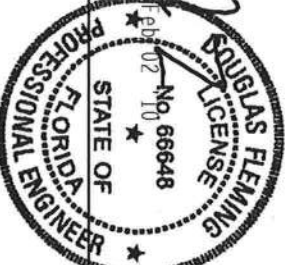
Earth City, MO 63045

****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET**
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow RCSI (Building Component Safety Information, by TPI and WTA) for safety practices prior to performing any work on trusses. Trusses are designed and engineered for specific loads and bracing. Improper bracing of trusses, ITWBC connector plates are made of 2018/1604 (W/H/S/N) ASTM A653 grade 57/480 (K/W/H/S) galv. steel. Apply plates to each face of truss, positioned as shown above and on Joint Details. A seal on this drawing or cover page indicates acceptance and professional engineering responsibility solely for the truss component design shown. The suitability and use of this component for any building is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2.
ITW-BCG, www.itwbcg.com, TPI, www.tpi.com, WTA, www.wta.com, ICC, www.iccsafe.org

****IMPORTANT** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR.**

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design.



REF	LET-IN VERT
DATE	1/1/09
DRWG	GBLETTIN0109
MAX TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX SPACING	24.0"

Florida Energy Efficiency Code For Building Construction
Florida Department of Community Affairs
EnergyGauge Summit® Fla/Com-2008, Effective: March 1, 2009 -- Form 400A-2008
Method A: Whole Building Performance Method for Commercial Buildings

PROJECT SUMMARY

Short Desc: New Project	Description: Hart 2 Hart Academy Phase 2
Owner: Dallas Hart	
Address1: Birley Road	City: Lake City
Address2:	State: FL
	Zip: 32055
Type: School/University	Class: New Finished building
Jurisdiction: COLUMBIA COUNTY, COLUMBIA COUNTY, FL (221000)	
Conditioned Area: 3977 SF	Conditioned & UnConditioned Area: 3977 SF
No of Stories: 1	Area entered from Plans 4088 SF
Permit No: 0	Max Tonnage 5
	If different, write in: _____

Compliance Summary

Component	Design	Criteria	Result
Gross Energy Cost (in \$)	3,014.0	3,199.0	PASSED
LIGHTING CONTROLS			PASSES
EXTERNAL LIGHTING			PASSES
HVAC SYSTEM			PASSES
PLANT			None Entered
WATER HEATING SYSTEMS			PASSES
PIPING SYSTEMS			None Entered
Met all required compliance from Check List?			Yes/No/NA
 IMPORTANT MESSAGE			
Info 5009 -- -- -- An input report of this design building must be submitted along with this Compliance Report			

CERTIFICATIONS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code

Prepared By: William H. Freeman

Building Official: _____

Date: 2/6/10

Date: _____

I certify that this building is in compliance with the FLorida Energy Efficiency Code

Owner Agent: Dallas Hart

Date: _____

If Required by Florida law, I hereby certify (*) that the system design is in compliance with the FLorida Energy Efficiency Code

Architect: William H. Freeman

Reg No: _____

Electrical Designer: William H. Freeman

Reg No: PE #56001

Lighting Designer: William H. Freeman

Reg No: PE #56001

Mechanical Designer: William H. Freeman

Reg No: PE #56001

Plumbing Designer: William H. Freeman

Reg No: PE #56001

(*) Signature is required where Florida Law requires design to be performed by registered design professionals.

Project: New Project
 Title: Hart 2 Hart Academy Phase 2
 Type: School/University
 (WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Building End Uses

	1) Proposed	2) Baseline
Total	189.40	236.50
	\$3,014	\$3,764
ELECTRICITY(MBtu/kWh/\$)	189.40	236.50
	55511	69315
	\$3,014	\$3,764
AREA LIGHTS	28.20	52.70
	8256	15432
	\$448	\$838
MISC EQUIPMT	34.20	34.20
	10032	10032
	\$545	\$545
PUMPS & MISC	0.10	0.10
	38	40
	\$2	\$2
SPACE COOL	64.40	84.40
	18855	24722
	\$1,024	\$1,342
SPACE HEAT	7.40	8.90
	2178	2610
	\$118	\$142
VENT FANS	55.10	56.20
	16152	16479
	\$877	\$895

Passing requires Proposed Building cost to be at most 85%
 of Baseline cost. This Proposed Building is at 80.1%

PASSES

Project: New Project
 Title: Hart 2 Hart Academy Phase 2
 Type: School/University
 (WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

External Lighting Compliance

Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 1	Main entries	Yes	30.00	100.0	3,000	100

Tradable Surfaces: 100 (W) Allowance for Tradable: 3150 (W)

PASSES

All External Lighting: 100 (W)

Compliance check includes a 5% excess allowance of 150.00(W)

Project: New Project
 Title: Hart 2 Hart Academy Phase 2
 Type: School/University
 (WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compliance
Pr0ZolSp1	14	Classroom/Lecture Hall	930	2	1	PASSES
Pr0ZolSp2	14	Classroom/Lecture Hall	852	4	2	PASSES
Pr0ZolSp3	14	Classroom/Lecture Hall	650	2	1	PASSES
Pr0ZolSp4	6	Toilet and Washroom	20	4	4	PASSES
Pr0ZolSp5	6	Toilet and Washroom	56	1	1	PASSES
Pr0ZolSp6	5	Corridor	420	1	1	PASSES
Pr0ZolSp7	1	Electrical Mechanical Equipment Room - General	56	1	1	PASSES
Pr0ZolSp8	2	Storage & Warehouse - Inactive Storage	20	4	4	PASSES

PASSES

Project: New Project
 Title: Hart 2 Hart Academy Phase 2
 Type: School/University
 (WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

System Report Compliance

Pr0Sy1 System 1 Constant Volume Air Cooled No. of Units
 Split System < 65000 Btu/hr 3

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Conditioners Air Cooled Split System < 65000 Btu/h Cooling Capacity		13.00	12.23	8.40		PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) Split System < 65000 Btu/h Cooling Capacity		7.70	7.70			PASSES
Air Handling System - Supply	Air Handler (Supply) - Constant Volume		0.40	0.90			PASSES
Air Handling System - Return	Air Handler (Return) - Constant Volume		0.40	0.90			PASSES
Air Distribution System	ADS System						PASSES

PASSES

Plant Compliance

Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Compliance
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None

Project: New Project
 Title: Hart 2 Hart Academy Phase 2
 Type: School/University
 (WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Water Heater Compliance

Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Compliance
Water Heater 1	Electric water heater	<= 12 [kW]	0.93	0.86			PASSES

PASSES

Piping System Compliance							
Category	Pipe Dia [inches]	Is Runout?	Operating Temp [F]	Ins Cond [Btu-in/hr .SF.F]	Ins Thick [in]	Req Ins Thick [in]	Compliance
							None

Project: New Project
 Title: Hart 2 Hart Academy Phase 2
 Type: School/University
 (WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Other Required Compliance

Category	Section	Requirement (write N/A in box if not applicable)	Check
Report	13-101	Input Report Print-Out from EnergyGauge FlaCom attached	<input type="checkbox"/>
Operations Manual	13-102.1, 13-410, 13-413	Operations manual provided to owner	<input type="checkbox"/>
Windows & Doors	13-406.AB.1.1	Glazed swinging entrance & revolving doors: max. 1.0 cfm/ft ² ; all other products: 0.4 cfm/ft ²	<input type="checkbox"/>
Joints/Cracks	13-406.AB.1.2	To be caulked, gasketed, weather-stripped or otherwise sealed	<input type="checkbox"/>
Dropped Ceiling Cavity	13-406.AB.3	Vented: seal & insulated ceiling. Unvented seal & insulate roof & side walls	<input type="checkbox"/>
System	13-407	HVAC Load sizing has been performed	<input type="checkbox"/>
Reheat	13-407.B	Electric resistance reheat prohibited	<input type="checkbox"/>
HVAC Efficiency	13-407, 13-408	Minimum efficiencies: Cooling Tables 13-407.AB.3.2.1A-D; Heating Tables 13-407.AB.3.2.1B, 13-407.AB.3.2.1D, 13-408.AB.3.2.1E, 13-408.AB.3.2F	<input type="checkbox"/>
HVAC Controls	13-407.AB.2	Zone controls prevent reheat (exceptions); simultaneous heating and cooling in each zone; combined HAC deadband of at least 5°F (exceptions)	<input type="checkbox"/>
Ventilation Controls	13-409.AB.3	Motorized dampers reqd, except gravity dampers OK in: 1) exhaust systems and 2) systems with design outside air intake or exhaust capacity ≤300 cfm	<input type="checkbox"/>
ADS	13-410	Duct sizing and Design have been performed	<input type="checkbox"/>
HVAC Ducts	13-410.AB	Air ducts, fittings, mechanical equipment & plenum chambers shall be mechanically attached, sealed, insulated & installed per Sec. 13-410 Air Distribution Systems	<input type="checkbox"/>
Balancing	13-410.AB.4	HVAC distribution system(s) tested & balanced. Report in construction documents	<input type="checkbox"/>
Piping Insulation	13-411.AB	In accordance with Table 13-411.AB.2	<input type="checkbox"/>
Water Heaters	13-412.AB	Performance requirements in accordance with Table 13-412.AB.3. Heat trap required	<input type="checkbox"/>
Swimming Pools	13-412.AB.2.6	Cover on heated swimming pools: Time switch (exceptions); Readily accessible on/off switch	<input type="checkbox"/>
Hot Water Pipe Insulation	13-411.AB.3	Table 13-411.AB.2 for circulating systems, first 8 feet of outlet pipe from storage tank and between inlet pipe and heat trap	<input type="checkbox"/>
Water Fixtures	13-412.AB.2.5	Shower hot water flow restricted to 2.5 gpm at 80 psi. Public lavatory fixture hot water flow 0.5 gpm max; if self-closing valve 0.25 gallon recirculating, 0.5 gallon non recirculating	<input type="checkbox"/>
Motors	13-414	Motor efficiency criteria have been met	<input type="checkbox"/>
Lighting Controls	13-415.AB	Automatic control required for interior lighting in buildings >5,000 s.f.; Space control; Exterior photo sensor; Tandom wiring with 1 or 3 linear fluourescent lamps>30W	<input type="checkbox"/>

INPUT DATA REPORT**Project Information****Project Name:** New Project**Orientation:** North**Project Title:** Hart 2 Hart Academy Phase 2**Building Type:** School/University**Address:** Birley Road**Building Classification:** New Finished building**State:** FL**No.of Stories:** 1**Zip:** 32055**GrossArea:** 3977 SF**Owner:** Dallas Hart**Zones**

No	Acronym	Description	Type	Area [sf]	Multiplier	Total Area [sf]
1	Pr0Zo1	Zone 1	CONDITIONED	3977.0	1	3977.0

Spaces

No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Multi plier	Total Area [sf]	Total Volume [cf]
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1	Compact Fluorescent	General Lighting	1	6	6	Manual On/Off	1	<input type="checkbox"/>
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Walls

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Direction	Conductance [Btu/hr. sf. F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.s.f.F/Btu]
In Zone: Pr0Zo1											
1	North Wall	Metal siding/2x4@24"+R1 1 Batt/5/8"Gyp	56.00	9.00	1	504.0	North	0.0920	1.072	19.38	10.9 <input type="checkbox"/>
2	West Elevation	Metal siding/2x4@24"+R1 1 Batt/5/8"Gyp	73.00	9.00	1	657.0	West	0.0920	1.072	19.38	10.9 <input type="checkbox"/>
3	South Wall	Metal siding/2x4@24"+R1 1 Batt/5/8"Gyp	56.00	9.00	1	504.0	South	0.0920	1.072	19.38	10.9 <input type="checkbox"/>
4	East Wall	Metal siding/2x4@24"+R1 1 Batt/5/8"Gyp	73.00	9.00	1	657.0	East	0.0920	1.072	19.38	10.9 <input type="checkbox"/>

Windows

No	Description	Type	Shaded	U [Btu/hr sf F]	SHGC	Vis.Tra	W [ft]	H (Effec) [ft]	Multi plier	Total Area [sf]
In Zone: Pr0Zo1										
In Wall: Pr0Zo1Wa1										
1	Pr0Zo1Wa1Wil	User Defined	No	0.6000	0.59	0.64	4.00	5.00	2	40.0 <input type="checkbox"/>
In Wall: Pr0Zo1Wa2										
1	Pr0Zo1Wa2Wil	User Defined	No	0.6000	0.59	0.64	4.00	4.00	3	48.0 <input type="checkbox"/>
In Wall: Pr0Zo1Wa4										
1	Pr0Zo1Wa4Wil	User Defined	No	0.6000	0.59	0.64	4.00	4.00	3	48.0 <input type="checkbox"/>

Doors

No	Description	Type	Shaded?	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Dens. Heat Cap. [lb/cf] [Btu/sf. F]	R-Value [h.s.f.F/Btu]
In Zone: Pr0Zo1										
In Wall: Pr0Zo1Wa2										
1	Pr0Zo1Wa2Dr1	Solid core flush (2.25)	No	3.00	7.00	2	21.0	0.3504	0.00	2.85
In Wall: Pr0Zo1Wa3										
1	Pr0Zo1Wa3Dr1	Solid core flush (2.25)	No	3.00	7.00	1	21.0	0.3504	0.00	2.85
In Wall: Pr0Zo1Wa4										
1	Pr0Zo1Wa4Dr1	Solid core flush (2.25)	No	3.00	7.00	1	21.0	0.3504	0.00	2.85

Roofs

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg]	Cond. [Btu/hr. Sf. F]	Heat Cap Dens. [lb/cf] [Btu/sf. F]	R-Value [h.s.f.F/Btu]
In Zone: Pr0Zo1										
1	Pr0Zo1Rf1	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	56.00	73.00	1	4088.0	0.00	0.0320	1.50	31.2

Skylights

No	Description	Type	U [Btu/hr sf F]	SHGC	Vis.Trans	W [ft]	H (Effec) [ft]	Multiplier	Area [Sf]	Total Area [Sf]
In Zone: In Roof:										

Floors

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Heat Cap. Dens. [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.s.f.F/Btu]
In Zone: Pr0Zo1										
1	Pr0Zo1FI1	1 ft. soil, concrete floor, carpet and rubber pad	56.00	73.00	1	4088.0	0.2681	34.00	113.33	3.73
										<input type="checkbox"/>

Systems

Pr0Sy1		System 1	Constant Volume Air Cooled Split System < 65000 Btu/hr		No. Of Units	3
Component	Category	Capacity	Efficiency	IPLV		
1	Cooling System	60000.00	13.00	8.40		
2	Heating System	60000.00	7.70			
3	Air Handling System -Supply	2000.00	0.40			
4	Air Handling System - Return	2000.00	0.40			
5	Air Distribution System					

Plant

Equipment	Category	Size	Inst.No	Eff.	IPLV

Water Heaters

W-Heater Description	CapacityCap.Unit	I/P Rt.	Efficiency	Loss
1 Electric water heater	50 [Gal]	[kW]	0.9300 [Ef]	[Btu/h]

Ext-Lighting

Description	Category	No. of Luminaires	Watts per Luminaire	Area/Len/No. of units [sf/ft/No]	Control Type	Wattage [W]
1 Ext Light 1	Main entries	1	100	100.00	Photo Sensor control	100.00

Piping

No	Type	Operating Temperature [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?
						<input type="checkbox"/>

Fenestration Used

Name	Glass Type	No. of Panels	Glass Conductance [Btu/h.sf.F]	SHGC	VLT
ASHULDbIClrW d-Vy-Fg frm	User Defined	2	0.6000	0.5900	0.6400

Materials Used

Mat No	Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thickness [ft]	Conductivity [Btu/h.ft.F]	Density [lb/cf]	SpecificHeat [Btu/lb.F]
187	Mat1187	GYP OR PLAS BOARD, 1/2IN	No	0.4533	0.0417	0.0920	50.00	0.2000
178	Mat1178	CARPET W/RUBBER PAD	Yes	1.2300				<input type="checkbox"/>
265	Mat1265	Soil, 1 ft	No	2.0000	1.0000	0.5000	100.00	<input type="checkbox"/>
48	Mat148	6 in. Heavyweight concrete	No	0.5000	0.5000	1.0000	140.00	<input type="checkbox"/>

12	Matl12	3 in. Insulation	No	10.0000	0.2500	0.0250	2.00	0.2000	<input type="checkbox"/>
23	Matl23	6 in. Insulation	No	20.0000	0.5000	0.0250	5.70	0.2000	<input type="checkbox"/>
4	Matl4	Steel siding	No	0.0002	0.0050	26.0000	480.00	0.1000	<input type="checkbox"/>
271	Matl271	2x4@24" oc + R11 Batt	No	10.4179	0.2917	0.0280	7.11	0.2000	<input type="checkbox"/>
81	Matl81	ASPHALT-ROOFING, ROLL	Yes	0.1500					<input type="checkbox"/>
244	Matl244	PLYWOOD, 1/2IN	No	0.6318	0.0417	0.0660	34.00	0.2900	<input type="checkbox"/>

Constructs Used

No	Name	Simple Construct	Massless Construct	Thickness [ft]	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1038	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	No	No		0.03	1.50	8.22	31.2	<input type="checkbox"/>
Layer	Material No.	Material	Thickness [ft]	Framing Factor					
1	81	ASPHALT-ROOFING, ROLL		0.000					<input type="checkbox"/>
2	244	PLYWOOD, 1/2IN	0.0417	0.000					<input type="checkbox"/>
3	12	3 in. Insulation	0.2500	0.000					<input type="checkbox"/>
4	23	6 in. Insulation	0.5000	0.000					<input type="checkbox"/>
5	187	GYP OR PLAS BOARD, 1/2IN	0.0417	0.000					<input type="checkbox"/>

No	Name	Simple Construct	Massless Construct	Thickness [ft]	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1055	Metal siding/2x4@24"+R11Batt/5/8"Gyp	No	No		0.09	1.07	19.38	10.9	<input type="checkbox"/>
Layer	Material No.	Material	Thickness [ft]	Framing Factor					
1	4	Steel siding	0.0050	0.000					<input type="checkbox"/>
2	271	2x4@24" oc + R11 Batt	0.2917	0.000					<input type="checkbox"/>
3	187	GYP OR PLAS BOARD, 1/2IN	0.0417	0.000					<input type="checkbox"/>

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.s.f.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.s.f.F/Btu]
1057	1 ft. soil, concrete floor, carpet and rubber pad	No	No	0.27	34.00	113.33	3.7
							<input type="checkbox"/>
Layer	Material No.	Material	Thickness [ft]	Framing Factor			
1	265	Soil, 1 ft	1.0000	0.000			<input type="checkbox"/>
2	48	6 in. Heavyweight concrete	0.5000	0.000			<input type="checkbox"/>
3	178	CARPET W/RUBBER PAD		0.000			<input type="checkbox"/>
No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.s.f.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.s.f.F/Btu]
1058	Solid core flush (2.25)	No	Yes	0.35			2.9
							<input type="checkbox"/>
Layer	Material No.	Material	Thickness [ft]	Framing Factor			
1	279	Solid core flush (2.25")		0.000			<input type="checkbox"/>

NOTARIZED LETTER OF AUTHORIZATION

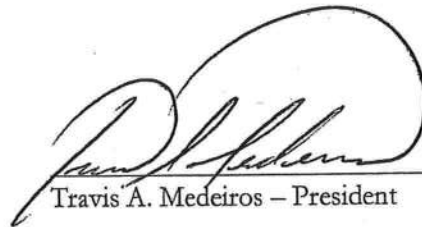
I, Dallas Hart, Owner of Hart-2-Hart Academy, hereby appoint Matthew S. Hentzelman and Travis A. Medeiros of Trademark Construction Group, Inc. of Florida to serve as the acting agent in all matters pertaining to the permitting process.



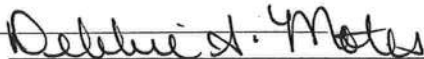
Dallas Hart



Matthew S. Hentzelman – General Contractor



Travis A. Medeiros – President



Debbie A. Motes - Notary



REPORT OF SUBSURFACE EXPLORATION

**Heart 2 Heart Academy
388 SW Birley Avenue
Lake City, Columbia County, Florida
CTI Project No. 09-00002-01**

**- Prepared For -
Trademark Construction Group, Inc.
128 SW Nassau Street
Lake City, Florida 32025**

**- Prepared by -
Cal-Tech Testing, Inc.
P.O. Box 1625
Lake City, Florida 32056-1625**

January 9, 2009



Cal-Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

P.O. Box 1625 • Lake City, FL 32056
4784 Rosselle Street • Jacksonville, FL 32254

Tel. (386) 755-3633 • Fax (386) 752-5456

Tel. (904) 381-8901 • Fax (904) 381-8902

LABORATORIES

January 9, 2009

Trademark Construction Group, Inc.

128 SW Nassau Street
Lake City, Florida 32025

Attention: Mr. Travis Medeiros, Operating Manager

Reference: Subsurface Exploration
Heart 2 Heart Academy / 388 SW Birley Avenue
Lake City, Columbia County, Florida
Cal-Tech Project No. 09-00002-01 (Rev. 1)

Dear Mr. Medeiros:

Cal-Tech Testing, Inc. (CTI) has completed the subsurface exploration and engineering evaluation for the proposed daycare center. Our work was verbally authorized by you during a telephone conversation on January 5, 2009.

INTRODUCTION

This report presents the results of our subsurface exploration performed for the proposed daycare center building. The services rendered by CTI during the course of this exploration can be summarized as follows:

- Reviewed available in-house data such as results of similar exploration and published data including the U.S.G.S. Quadrangle map, and the Geologic Map of Florida for this area.
- Planned and performed two (2) Standard Penetration Test (SPT) borings each extending 15 feet below the existing ground surface.
- Reviewed and analyzed gathered data in order to evaluate the subsurface conditions with respect to the proposed construction.
- Prepared this report, which includes the results of our field exploration as well as our recommendations with respect to foundation design, foundation related site work, general site development, and quality control.

PROJECT INFORMATION

The subject site is located at 388 SW Birley Avenue in Lake City, Columbia County, Florida. We understand the proposed development will consist of constructing a 4,600 SF (73' by 63') one-

story building for use as a daycare center. We assume the building will be wood framed construction with a slab-on-grade. Structural loading information for the building is not available at this time; however, we anticipate that column loads will be no greater than 25 kips and wall loads no greater than 3 kips per lineal foot. Furnished preliminary drawings prepared by Crews Engineering Services indicate a finished floor elevation of 101 feet. Existing site elevations within the proposed building area range from about 99 feet to 101 feet. The existing site conditions were observed by our drilling personnel on January 5, 2009. At the time of our site visit, the ground surface appears to have been recently cleared of trees and vegetations.

FIELD PROGRAM

The field investigation consisted of performing two (2) SPT borings each extending 15 feet below the existing ground surface. The SPT borings were performed at the approximate locations shown on the attached Field Exploration Plan. These locations were determined in the field and measured by tape and turning approximate right angles from existing features (existing trees and property corners). Therefore, the borings location should be considered only as accurate as the means and methods by which they were obtained.

Sampling and penetration procedures of the SPT borings were accomplished in general accordance with ASTM D-1586, *"Penetration Test and Split-Barrel Sampling of Soils"*, using a power rotary drill rig. The standard penetration tests were performed by driving a standard 1-3/8" I.D. and 2" O.D. split spoon sampler with a 140 pound hammer falling 30 inches. The number of hammer blows required to drive the sampler a total of 18 inches, in 6 inch increments, were recorded. The penetration resistance or "N" value is the summation of the last two 6 inch increments and is illustrated on the attached boring logs adjacent to their corresponding sample depths. The penetration resistance is used as an index to derive soil parameters from various empirical correlations. The borings were performed using a BK-51 drill rig (continuous flight auger with manual hammer).

The attached record of boring logs presents the descriptions of the subsurface conditions encountered at the time of our field program, and also provide the penetration resistances recorded during the drilling and sampling process. The stratification lines and depth designations on the boring record represent the approximate boundaries between the various soils encountered, as determined in the field by our personnel. In some cases, the transition between the various soils may be gradual.

SITE & SUBSURFACE CONDITIONS

General Area Geology/Sinkhole Potential

Published information regarding the geology in this area of Columbia County indicates the site is situated near the contact between the Statenville Formation (**Ths**) of the Miocene epoch, and the Undifferentiated Quaternary Sediments (**Qu**) of the Pleistocene and Holocene epochs. The Statenville Formation is of the Hawthorn Group and mainly consists of interbedded sands, clays and dolostones with common to very abundant phosphate grains. The sands are predominate and are light gray to olive gray, poorly indurated, phosphatic, fine to coarse grained with scattered gravel and with minor occurrences of fossils. Clays are yellowish gray to olive gray, poorly

consolidated, variably sandy and phosphatic, and variably dolomitic. The dolostones are yellowish gray to light orange, poorly to well indurated, sandy, clayey and phosphatic with scattered mollusk molds and casts.

Typically, the Undifferentiated Quaternary sediments consist of siliciclastics, organics and freshwater carbonates. The siliciclastics are light gray, tan, brown to dark, unconsolidated to poorly consolidated, clean to clayey, silty, fossiliferous, variably organic-bearing sands to blue green to olive green, poorly to moderately consolidated, sandy, silty, clays. Freshwater carbonates "marls" are buff colored to tan, unconsolidated to poorly consolidated, fossiliferous (mollusks) carbonate muds containing organics.

The limestone in this area consists of carbonate rock and its weathered residuum. Surface soil mantle is typically characterized by sands, sandy clays, or clays. In this area of Columbia County, Florida, the limestone is marked by solution features (sinkholes) associated with *karst* terrains. Areas underlain by karst terrains are prone to sinkhole activities, these sinkholes are primarily caused by an advanced state of internal soil erosion or raveling action, which under certain circumstances can lead to ground subsidences. This internal soil erosion is a very slow process by which soil particle usually migrate under the influence of a hydraulic gradient to underlying karsted and/or fractured limestone formation. There are several indicators generally associated with an advanced state of long term internal soil erosion such as noticeable surface depressions and very loose to soft soil zones just above the rock formation. In summary, and based on our site observations and the results of the test borings, it is our opinion the proposed construction will have no greater risk of damage due to sinkhole activity than the development of structures in other areas within the immediate vicinity of the subject site.

Subsurface Soil Conditions

In general, the soil profile as disclosed by SPT borings B-1 and B-2 initially consisted of about 3½ to 4 feet of brownish tan silty fine sand (SP-SM). This surface cover is underlain by about 5½ to 8 feet of yellowish tan slightly silty fine sand (SP). Beneath this stratum, the soil profile consisted of about 3 to 6 feet of light gray clayey sand (SC). These soils vary from very loose to dense with a penetration resistance or "N" values ranging from 3 to exceeding 41 Blows Per Foot (BPF).

For a more detailed description of the subsurface conditions encountered, please refer to the attached Record of Boring Logs.

Groundwater

The depth to the groundwater was measured at the boring locations at the time drilling was completed. The groundwater table was not encountered in any of the test borings. We note that due to the relatively short time frame of the field exploration, the groundwater may not have had sufficient time to stabilize. For a true "stabilized" groundwater level reading, piezometers may be required. In any event, fluctuation in groundwater levels should be anticipated due to seasonal climatic conditions, construction activities, rainfall variations, surface water runoff, and other site-specific factors.

RECOMMENDATIONS FOR FOUNDATION DESIGN & SITE PREPARATION

Foundation Support

The test borings indicated the presence of very loose soils within the upper 4 feet of the existing ground surface. The majority of these soils are considered suitable for reuse as structural fill, however, they are not considered acceptable for the support of the proposed building in their current conditions. To improve the density of the supporting soils, the upper 3 feet of the site soils within the building and pavement areas (including 5 feet outside the perimeter of the building) should be recompacted as indicated herein.

Provided the foundation and site soils are prepared in accordance with the guidelines presented in this report, it is our opinion the proposed structure may be supported on a conventional shallow foundation system. The shallow foundation may be designed for an allowable bearing pressure of 2,500 pounds per square foot (psf) or less on recompacted soils or newly placed structural fill.

In using net pressures, the weight of the footing and backfill over the footing need not be considered. Hence, only loads applied at or above final grade need to be used for dimensioning footings. However, wall bearing footings should be designed with a minimum width of 18 inches, while the individual column footings should have minimum dimensions of 2 feet by 2 feet.

Settlement Analyses

Actual magnitude of settlement that will occur beneath foundations will depend upon variations within the subsurface soil profile, actual structural loading conditions, embedment depth of the footings, actual thickness of compacted fill or cut, and the quality of the earthwork operations. Assuming the foundation related site work and foundation design is completed in accordance with the enclosed recommendations, we estimate the total settlement of the structure will be on the order of 1 inch or less. Differential settlements (between adjacent columns or along the length of a continuous wall footing) should be approximately one-half of the total settlement. This settlement is primarily the result of elastic compression of the upper looser sands, and should occur almost immediately following the application of the structural dead load during construction.

Uplift Resistance

Under wind loading conditions, the foundations will likely be subjected to considerable uplift forces. In order to resist these uplift forces, it may be necessary to increase the footing size (thus increasing the dead weight) or lower the footing to mobilize additional soil weight above the footing. Uplift resistance from the soil may be evaluated as the weight of the soil directly above the footing, plus the shearing resistance along the vertical face of the soil prism. Alternately, the available soil uplift resistance may be calculated as the weight of the soil prism defined by the diagonal line drawn from the top of the footing to the ground surface at an angle of 30 degrees with the vertical. We recommend that a total unit weight of 100 pcf (compacted to 95% of the modified Proctor maximum dry density) be used for well-compacted, suitable fill. Should the bottom of any structure be below the stabilized seasonal-high groundwater level, these structures must be properly designed to resist the resulting uplift forces due to hydrostatic pressures.

Lateral Resistance

Lateral loads created by wind may be resisted by the passive pressure of the soil acting against the side of the individual footings and/or the friction developed between the base of the foundation system and the underlying soils. For compacted backfill and/or in-situ material, the passive pressure may be taken as an equivalent to the pressure exerted by a fluid weighing 300 pcf for above the groundwater table and 112 pcf below water level. A coefficient of friction equal to 0.4 may be used for calculating the frictional resistance at the base of the shallow footings. The resistance values discussed herein are based on the assumption that the foundations can withstand horizontal movements on the order of $\frac{1}{4}$ inch. Lateral resistance determined in accordance with the recommendations provided herein should be considered the total available resistance. Consequently, the design should include a minimum factor of safety of 1.5.

Lateral Earth Pressures

Generally, retaining walls will be subjected to "at-rest" or "active" pressures. Retaining walls that are restrained at the top will be subject to "at-rest" pressures due to their restricted movement. The "at-rest" pressures may be calculated as the equivalent pressure exerted by a fluid density of 50 pcf. Where walls are not restrained at the top and thus allowed sufficient movement to mobilize "active" pressures, an equivalent fluid density of 33 pcf should be used in the design.

These values may be used only for walls above the groundwater table. The presence of any groundwater due to surface water intrusion should be handled with the use of a drainage layer behind the walls with a collection pipe discharging accumulated water away from the walls. If this is not practical, then the hydrostatic pressure due to water should be included in the design of the walls.

Drainage Considerations

Adequate drainage should be provided at the site in order to minimize increase in moisture content of the foundation soils. Excessive moisture can significantly reduce the soils bearing capacity and contribute to foundation settlement. For the protection of the foundation soils, we recommend the ground water surface be sloped away from all proposed structures.

Floor Slab

All unsuitable material (such as topsoil, organics, etc.) located within the building area (**including 5 feet outside the perimeter of the building**) should be overexcavated and removed. The exposed subgrade should be recompacted and proofrolled with a fully-loaded, tandem-axle dump-truck or similar pneumatic-tired equipment. Provided the recompaction and proofrolling operations do not indicate significant deflecting or pumping of the existing subgrade, the floor slab may be designed as a slab-on-grade. Any soft or loose soils found during the proofrolling operation should be undercut and/or replaced with suitable, well-compacted, engineered fill.

Floor slabs should be supported on at least 4 inches of relatively clean granular material, such as sand, sand and gravel, or crushed stone. This is to help distribute concentrated loads and equalize moisture beneath the slab. This granular material should have 100 percent passing the $1\frac{1}{2}$ -inch sieve and a maximum of 10 percent passing the No. 200 sieve.

Based upon the soil conditions encountered at the subject site, the anticipated fill placement, and the recommended site preparation operations presented in this report, a modulus of vertical subgrade reaction (k) for the slab bearing soils of 150 pounds per square inch per inch of vertical deflection (pci) may be used. These recommendations are based on finished subgrade elevations being at or near (within 1 foot) the existing ground surface.

Exposed Subgrade

Following excavation and backfilling, exposed soils in the building and pavement areas should be compacted with overlapping passes of a relatively heavy weight vibratory drum roller having a total operating static weight (weight of fuel and water included) of at least 10 tons and a drum diameter of 5 feet. All exposed surfaces should be compacted to a minimum of 95 percent of the modified Proctor maximum dry density (ASTM D-1557) to a depth of at least 12 inches below the compacted surface.

Structural Fill/Backfill

Structural fill should be placed in thin loose lifts not exceeding 12 inches in thickness and compacted with a heavy roller as described above. For walk-behind equipment, a maximum loose lift thickness of 6 inches is recommended. Each lift should be thoroughly compacted with the vibratory roller to provide densities equivalent to at least 95 percent of the modified Proctor maximum dry density (ASTM D-1557). Structural fill should consist of an inorganic, non-plastic, granular soil containing less than 10 percent material passing the No. 200 mesh sieve (relatively clean sand with a Unified Soil Classification of SP or SP-SM).

We note that due to the varying density of the upper soils, it is recommended the exposed subgrade be proofrolled and proof-compacted to a depth of 4 feet below the existing grade prior to concrete placement (including bottom of footings and slab areas). This may require the overexcavation and recompaction of the upper 3 feet of the existing soils. All soils should be proof-compacted to a minimum of 95% of the modified Proctor maximum dry density (ASTM D-1557).

Compaction of exposed soils in deeper excavations may cause pumping and/or yielding of the soils being compacted. The instability is caused by excess pore water pressure build-up in the subgrade soils being compacted. To allow this excess pore water pressure to dissipate, the contractor may temporarily halt the compaction operation or disengage the vibratory action of the compaction equipment. In any event, it is recommended to maintain a distance of at least two feet between the groundwater level and the compaction surface.

General Statements About Carbonate Terrains

Major topographic changes in surface or groundwater patterns in carbonate terrains can sometimes induce sinkholes. Therefore, it is recommended the site grades should follow the existing topography as much as possible. In addition, no water wells should be installed within the site influence area, as pumping from these wells will cause groundwater fluctuations and may induce sinkholes. It must be understood that this exploration was not intended to predict or preclude future sinkholes from occurring/developing at this site or within the vicinity of the subject site.

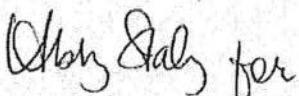
Report Limitations


This report has been prepared for the exclusive use of **Trademark Construction Group, Inc. of Lake City, Florida** for the specific application to the project discussed herein. Our conclusions and recommendations have been rendered using generally accepted standards of geotechnical engineering practice in the State of Florida, no other warranty is expressed or implied. **CTI** is not responsible for the interpretations, conclusions, opinions, or recommendations of others based on the data contained herein. We note that assessment of environmental conditions for the presence of pollutants in the soil, rock, or groundwater at the site was beyond the scope of the exploration. Field observations, monitoring, and quality assurance testing during earthwork and foundation installation are an extension of the geotechnical design. We recommend that the owner retain these services and that **CTI** be allowed to continue our involvement in the project through these phases of construction. During construction, we accept no responsibility for job site safety; which is the sole responsibility of the contractor.

Closing

We appreciate the opportunity to work with you on this project, and look forward to serving as your geotechnical and construction materials testing consultant for the remainder of this and future projects. Should you have any questions and/or comments concerning this report, please contact our office at 386-755-3633.

Respectfully submitted,
Cal-Tech Testing, Inc.

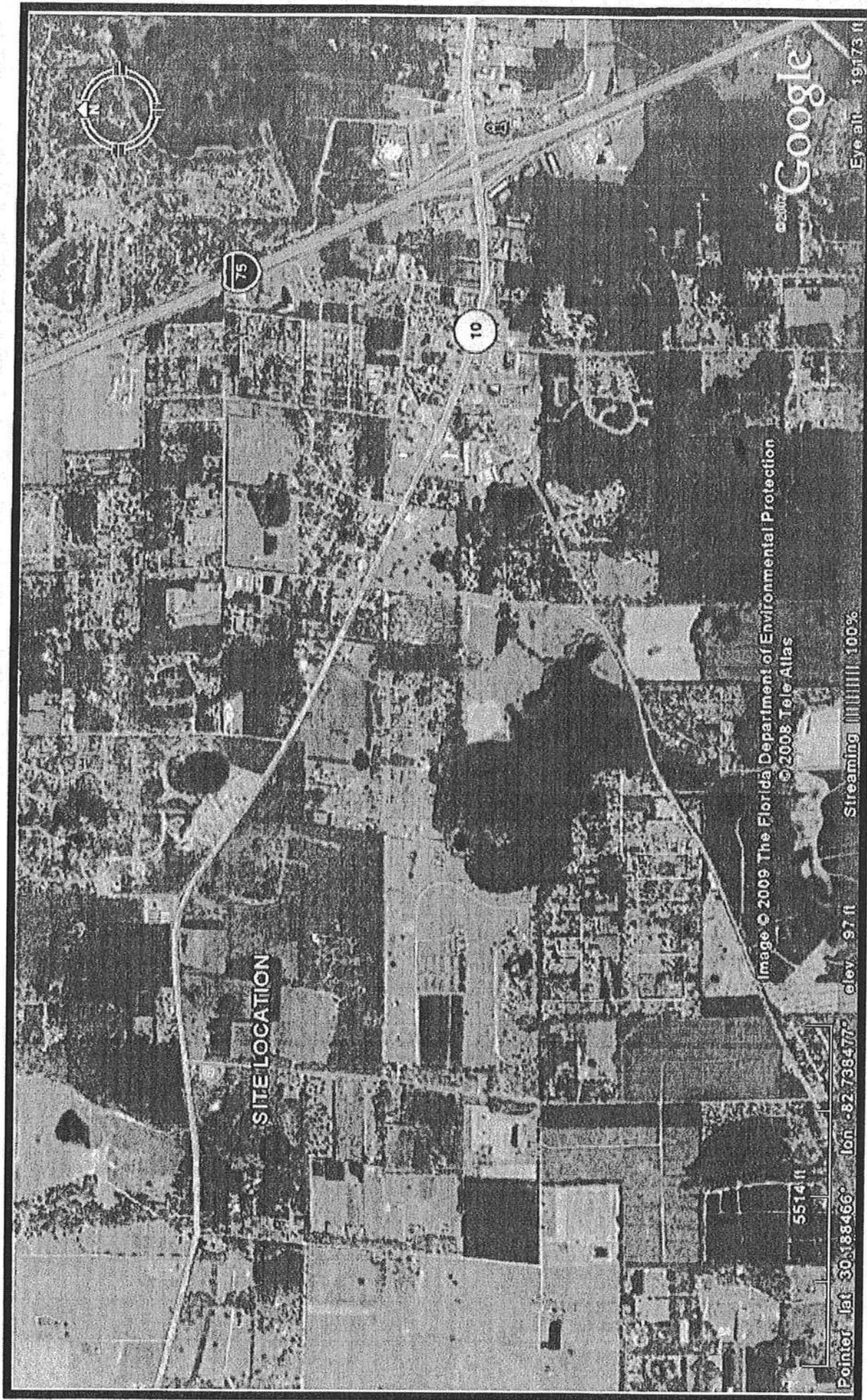

David B. Brown
Executive Vice President


Nabil O. Hmeidi, P.E. 11/9/09
Senior Geotechnical Engineer
Licensed, Florida No. 57842

Distribution: File (1 copy)
Addressee (2 bound copies)

Attachments: Vicinity Map
Field Exploration Plan
Record of Boring Logs
Unified Soil Classification System
Key To Test Data

ATTACHMENTS

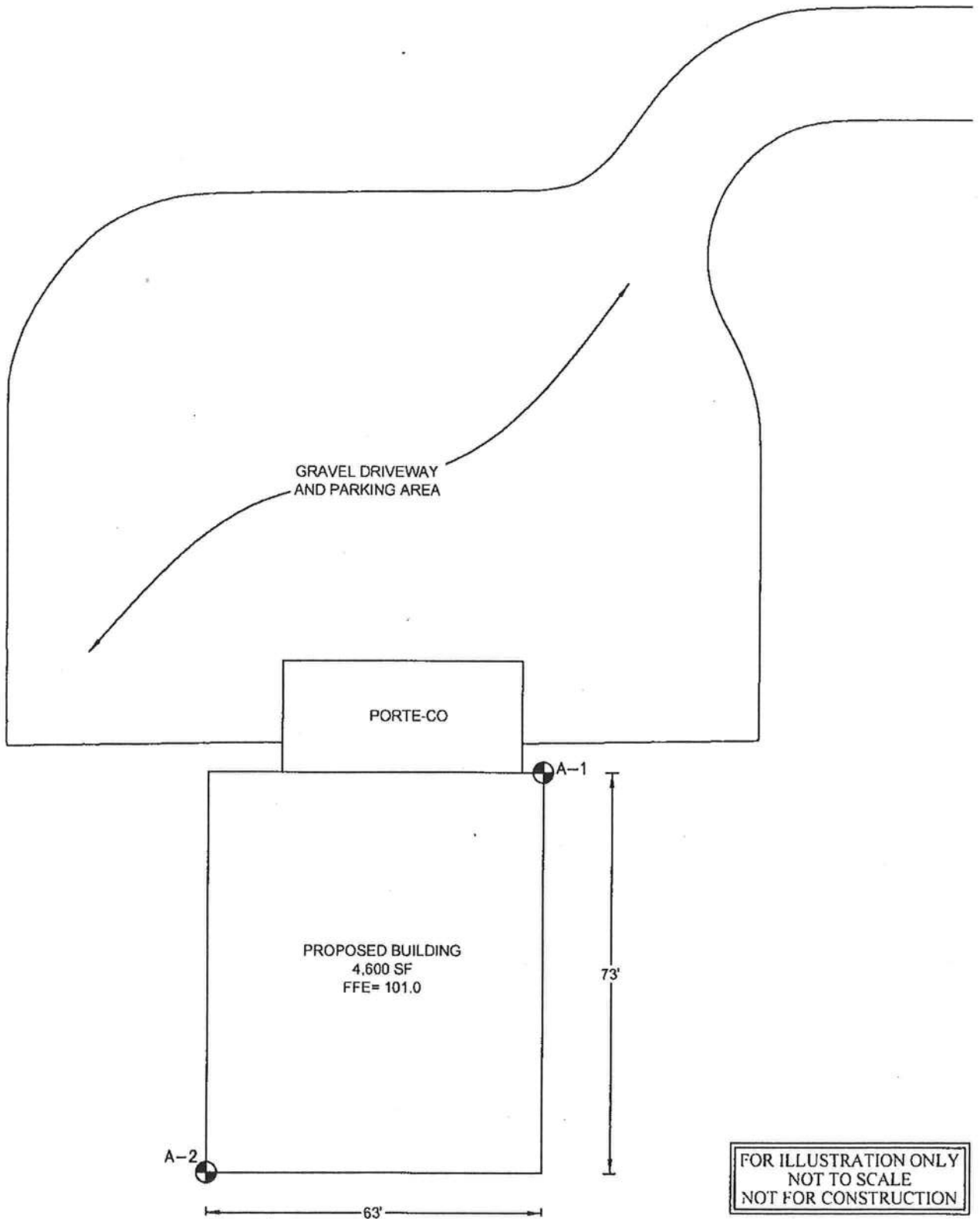


CAL-TECH TESTING, INC.
P.O. Box 1625
Lake City, Florida 32056-1625
Phone: (386) 755-3633
Fax: (386) 752-5456

VICINITY MAP

Heart 2 Heart Academy – Subsurface Exploration
388 SW Birley Avenue
Lake City, Columbia County, Florida
Cal-Tech Testing Project No. 09-00002-01

Figure 1



⊕ Standard Penetration Test Borings by CTI on 01/05/2009

SUBSURFACE EXPLORATION
HEART 2 HEART ACADEMY
388 SW BIRLEY AVENUE
LAKE CITY, COLUMBIA COUNTY, FLORIDA

CAL-TECH TESTING, INC.
P.O. Box 1625
Lake City, Florida 32056-1625
Phone: (386) 755-3633
Fax: (386) 752-5456

FIELD EXPLORATION PLAN

Project No. 09-00002-01		DATE: 01/05/2009	FIGURE: 2
DRAWN:	APPROVED:	SCALE: N.T.S.	SHEET: 1/1



CAL-TECH TESTING, INC.
3309 SW SR 247
Lake City, Florida 32024
Telephone: (386) 755-3633
Fax: (386) 752-5456

BORING NUMBER B-1

PAGE 1 OF 1

CLIENT Trademark Construction Group, Inc.

PROJECT NAME Heart 2 Heart Daycare

PROJECT NUMBER 09-00002-01

PROJECT LOCATION 388 SW Birley Avenue, Lake City, Florida

DATE STARTED 01/05/09 COMPLETED 01/05/09

GROUND ELEVATION 100 ft HOLE SIZE _____

DRILLING CONTRACTOR Cal-Tech Testing, Inc.

GROUND WATER LEVELS:

DRILLING METHOD Split Spoon Sampling

AT TIME OF DRILLING ---

LOGGED BY N.H. CHECKED BY _____

AT END OF DRILLING --- Not Encountered

NOTES BK-51 (manual hammer)

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	▲ SPT N VALUE ▲			
								20	40	60	80
0								PL	MC	LL	
								20	40	60	80
								□ FINES CONTENT (%) □			
								20	40	60	80
		VERY LOOSE to LOOSE, brownish tan, silty fine sand (SP-SM)	SPT 1	100	2-3-3 (6)						
			SPT 2	100	2-2-2 (4)						
5		VERY LOOSE to MEDIUM DENSE, yellowish tan, slightly silty fine sand (SP)	SPT 3	100	2-2-2 (4)						
			SPT 4	100	2-2-2 (4)						
			SPT 5	100	2-3-3 (6)						
10			SPT 6	100	3-3-9 (12)						
		DENSE, light gray, clayey sand (SC)									
15			SPT 7	100	10-18-23 (41)						

Bottom of borehole at 15.0 feet.



CAL-TECH TESTING, INC.
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Lake City, Florida 32024
Telephone: (386) 755-3633
Fax: (386) 752-5456

BORING NUMBER B-2

PAGE 1 OF 1

CLIENT Trademark Construction Group, Inc.

PROJECT NAME Heart 2 Heart Daycare

PROJECT NUMBER 09-00002-01

PROJECT LOCATION 388 SW Birley Avenue, Lake City, Florida

DATE STARTED 01/05/09 COMPLETED 01/05/09

GROUND ELEVATION 100 ft HOLE SIZE _____

DRILLING CONTRACTOR Cal-Tech Testing, Inc.

GROUND WATER LEVELS:

DRILLING METHOD Split Spoon Sampling

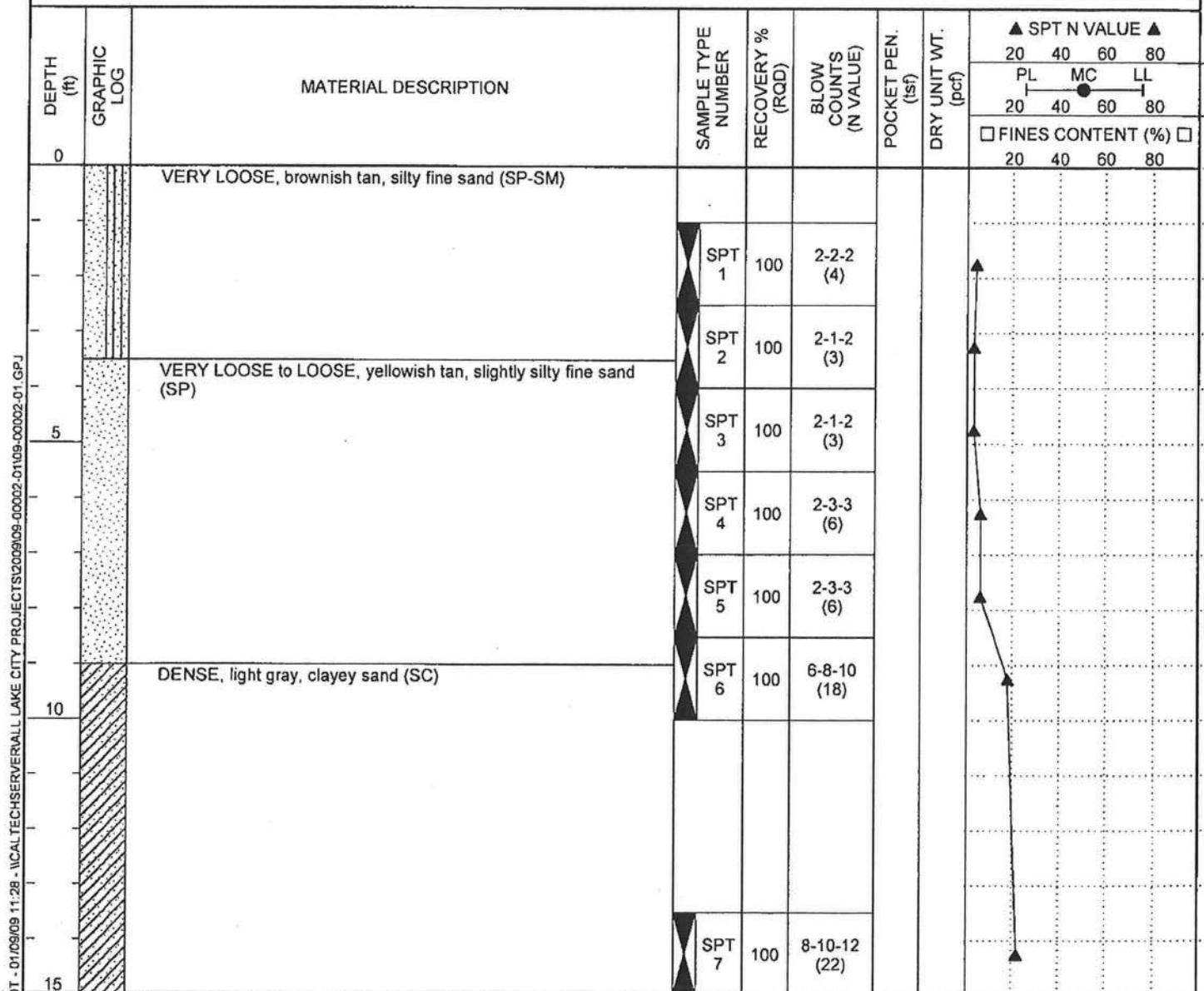
AT TIME OF DRILLING ---

LOGGED BY N.H. CHECKED BY _____

AT END OF DRILLING --- Not Encountered

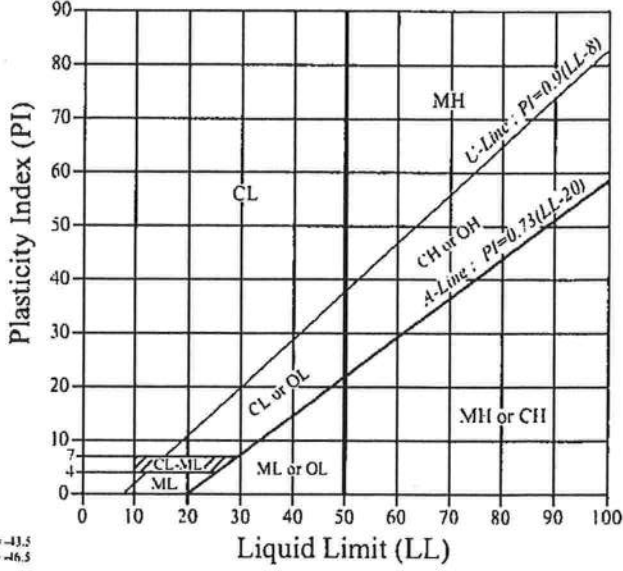
NOTES BK-51 (manual hammer)

AFTER DRILLING ---



UNIFIED SOIL CLASSIFICATION SYSTEM

ASTM DESIGNATION D-2487

MAJOR DIVISIONS			GROUP SYMBOL	TYPICAL NAMES	LABORATORY CLASSIFICATION CRITERIA					
COARSE GRAINED SOILS (More than half of the material is larger than No. 200 sieve)	Gravels (more than half of the coarse fraction is larger than No. 4 sieve)	Clean gravels	GW	Well-graded gravels, gravel-sand mixtures, little or no fines.	$C_u = \frac{D_{60}}{D_{10}} > 4 ; 1 < C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}} < 3$					
			GP	Poorly graded gravels, gravel-sand mixture, little or no fines.	Not meeting all gradation requirements of GW					
		Gravel with fines	GM	Silty gravels, gravel-sand-silt mixtures.	Atterberg Limits below A-Line or PI less than 4	Above A-Line with PI between 4 and 7 are borderline cases requiring the use of dual symbols.				
			GC	Clayey gravels, gravel-sand-clay mixtures.	Atterberg Limits above A-Line or PI greater than 7					
	Sands (more than half of the coarse fraction is smaller than No. 4 sieve)	Clean sands	SW	Well-graded sands, gravelly sands, little or no fines.	$C_u = \frac{D_{60}}{D_{10}} > 6 ; 1 < C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}} < 3$					
			SP	Poorly graded sands, gravelly sands, little or no fines.	Not meeting all gradation requirements of SW					
		Sands with fine	SM	Silty sands, sand-silt mixtures.	Atterberg Limits below A-Line or PI less than 4	Limits plotting in hatched zone with PI between 4 and 7 are borderline cases requiring the use of dual symbols.				
			SC	Clayey sands, sand-clay mixtures.	Atterberg Limits above A-Line or PI greater than 7					
FINE GRAINED SOILS (More than half of the material is finer than No. 200 sieve)	Silts and Clays (LL less than 50)	ML	Inorganic silts, very fine sands, rock flour, silty or clayey fine sands, or clayey silts with slight plasticity.	<div>PLASTICITY CHART</div> <div>1. Plot intersection of PI as determined by the Atterberg Limits tests. 2. Points plotted above the A-Line indicate clay soils. 3. Points plotted below the A-Line indicate silt.</div> 						
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clay.							
		OL	Organic silts and organic silty clays of low plasticity.							
	Silts and Clays (LL greater than 50)	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.							
		CH	Inorganic clays of high plasticity, fat clay.							
		OH	Organic clays of medium to high plasticity, organic silts.							
	Highly Organic Soils	Pt	Peat and other highly organic soils.							
	CAL-TECH TESTING, INC. P.O. Box 1625 Lake City, Florida 32056-1625 Phone: 386-755-3633 Fax: 386-752-5456						5% Max. Passing the U.S. No. 200 Sieve SP 5% - 12% Passing the U.S. No. 200 Sieve SP-SM 12% - 50% Passing the U.S. No. 200 Sieve SM/SC			

KEY TO TEST DATA

STANDARD PENETRATION TEST:

Soil sampling and penetration testing is performed in accordance with ASTM D-1586. The standard penetration resistance ("N") is the number of blows of a 140-pound hammer falling 30 inches to drive a 2-inch O.D., 1.4-inch I.D. split spoon sampler one foot.

ROCK CORE DRILLING:

Rock sampling and core drilling is performed in accordance with ASTM D-2113. The rock quality designation percentage (RQD) is determined by summing only pieces of core that are at least 4 inches long, and dividing by the "run" length.

Relation of RQD and In-situ Rock Quality	
RQD (%)	Rock Quality
90 - 100	Excellent
75 - 90	Good
50 - 75	Fair
25 - 50	Poor
0 - 25	Very Poor

RELATIVE DENSITY (SANDS):

Very loose - less than 4 blows/ft.

Loose - 5 to 10 blows/ft.

Medium - 11 to 30 blows/ft.

Dense - 31 to 50 blows/ft.

Very dense - over 50 blows/ft.

CONSISTENCY (SILTS & CLAYS):

Very soft - less than 2 blows/ft.

Soft - 3 to 4 blows/ft.

Medium stiff - 5 to 8 blows/ft.

Stiff - 9 to 15 blows/ft.

Very stiff - 16 to 30 blows/ft.

Hard - 31 to 50 blows/ft.

Very hard - over 50 blows/ft.

HARDNESS (ROCKS):

Soft - Rock core crumbles when handled.

Medium - Can break core with hands.

Moderately hard - Thin edges of rock core can be broken with fingers.

Hard - Thin edges of core can not be broken with fingers.

Very hard - Can not be scratched with knife.

GROUNDWATER:

Water levels shown on boring logs are taken immediately upon completion of boring, and are intended for general information. The apparent level may have been altered by the drilling process. Groundwater levels, if desired, can be monitored over a long time interval.

CAL-TECH TESTING, INC.

P.O. Box 1625

Lake City, Florida 32056-1625

Phone: 386-755-3633 Fax: 386-752-5456

5% Max. Passing the U.S. No. 200 Sieve SP

5% - 12% Passing the U.S. No. 200 Sieve SP-SM

12% - 50% Passing the U.S. No. 200 Sieve SM/SC



**SUWANNEE
RIVER
WATER
MANAGEMENT
DISTRICT**

9225 CR 49
LIVE OAK, FLORIDA 32060
TELEPHONE: (386) 362-1001
TELEPHONE: 800-226-1066
FAX (386) 362-1056

NOTICED GENERAL PERMIT

PERMITTEE:

HART 2 HART ACADEMY
747 SW SATELITE LANE
LAKE CITY, FL 32024

PERMIT NUMBER: ERP08-0345M

DATE ISSUED: 01/29/2010

DATE EXPIRES: 01/29/2013

COUNTY: COLUMBIA

TRS: S32/T3S/R16E

PROJECT: HART 2 HART DAYCARE - PHASE II

Approved entity to whom operation and maintenance may be transferred pursuant to rule 40B-4.1130, Florida Administrative Code (F.A.C.):

DALLAS HART
HART 2 HART ACADEMY
747 SW SATELITE LANE
LAKE CITY, FL 32024

Based on information provided, the Suwannee River Water Management District's (District) rules have been adhered to and an environmental resource noticed general permit is in effect for the permitted activity description below:

Previous permit issued for 0.17 acres of impervious surface on 15.20 acres. Modification consists of construction and operation of a surfacewater management system serving 0.24 acres of impervious surface on a total project area of 10.71 acres in a manner consistent with the application package submitted by Dallas Hart and plans certified on 01/15/10 by Brett A. Crews, P.E.

It is your responsibility to ensure that adverse off-site impacts do not occur either during or after construction. Any additional construction or alterations not authorized by this permit may result in flood control or water quality problems both on and off site and will be a violation of District rule.

You or any other substantially affected persons are entitled to request an administrative hearing or mediation. Please refer to enclosed notice of rights.

Permit No.: ERP08-0345M

Project: HART 2 HART DAYCARE - PHASE II

Page 2 of 7

This permit is issued under the provisions of chapter 373, F.S., chapter 40B-4, and chapter 40B-400, F.A.C. A noticed general permit authorizes the construction, operation, maintenance, alteration, abandonment, or removal of certain minor surface water management systems. This permit authorizes the permittee to perform the work necessary to construct, operate, and maintain the surface water management system shown on the application and other documents included in the application. This is to notify you of District's agency action concerning Notice Of Intent. This action is taken pursuant to rule 40B-4 and 40B-400, F.A.C.

General Conditions for All Noticed General Permits:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this section are general permit conditions and are binding upon the permittee for all noticed general permits in Part II of this chapter. These conditions are enforceable under Part IV of chapter 373, F.S.
2. The general permit is valid only for the specific activity indicated. Any deviation from the specified activity and the conditions for undertaking that activity shall constitute a violation of the permit. A violation of the permit is a violation of Part IV of chapter 373, F.S., and may result in suspension or revocation of the permittee's right to conduct such activity under the general permit. The District may also begin legal proceedings seeking penalties or other remedies as provided by law for any violation of these conditions.
3. This general permit does not eliminate the necessity to obtain any required federal, state, local and special District authorizations prior to the start of any construction, alteration, operation, maintenance, removal or abandonment authorized by this permit.
4. This general permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the general permit and Part II of this chapter.
5. This general permit does not relieve the permittee from liability and penalties when the permitted activity causes harm or injury to human health or welfare, animal, plant or aquatic life, or property. It does not allow the permittee to cause pollution in contravention of Florida Statutes and District rules.
6. The permittee is hereby advised that s.253.77, F.S., states that a person may not commence any excavation, construction or other activity involving the use of sovereign or other lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the

Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

7. The authorization to conduct activities pursuant to general permit may be modified, suspended or revoked in accordance with chapter 120, and s.373.429, F.S.

8. This permit shall not be transferred to a third party except pursuant to s.40B-4.1130, F.A.C. The permittee transferring the general permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located.

9. Upon reasonable notice to the permittee, District staff with proper identification shall have permission to enter, inspect, sample and test the permitted system to insure conformity with the plans and specifications approved by the permit.

10. The permittee shall maintain any permitted system in accordance with the plans submitted to the District and authorized by this general permit.

11. A permittee's right to conduct a specific noticed activity under this noticed general permit is authorized for the duration on the front of this permit.

12. Construction, alteration, operation, maintenance, removal and abandonment approved by this general permit shall be conducted in a manner which does not cause violations of state water quality standards, including any antidegradation provisions of s.62-4.242(1)(a) and (b), 62-4.242(2) and (3), and 62-302.300, F.A.C., and any special standards for Outstanding Florida Waters and Outstanding National Resource Waters. The permittee shall implement best management practices for erosion, turbidity and other pollution control to prevent violation of state water quality standards. Temporary erosion control measures such as sodding, mulching, and seeding shall be implemented and shall be maintained on all erodible ground areas prior to and during construction. Permanent erosion control measures such as sodding and planting of wetland species shall be completed within seven days of any construction activity. Turbidity barriers shall be installed and maintained at all locations where the possibility of transferring suspended solids into wetlands or other surface waters exists due to the permitted activity. Turbidity barriers shall remain in place and shall be maintained in a functional condition at all locations until construction is completed and soils are stabilized and vegetation has been established. Thereafter the permittee shall be responsible for the removal of the barriers. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

13. The permittee shall hold and save the District harmless from any and all damages, claims or liabilities which may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any system authorized by the general permit.

Permit No.: ERP08-0345M

Project: HART 2 HART DAYCARE - PHASE II


Page 4 of 7

14. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

15. The permittee shall perform all construction authorized in a manner so as to minimize adverse impacts to fish, wildlife, natural environmental values, and water quality. The permittee shall institute necessary measures during construction including riprap, reinforcement, or compaction of any fill materials placed around newly installed structures, to minimize erosion, turbidity, nutrient loading, and sedimentation in the receiving waters.

16. The permit is issued based on the information submitted by the applicant which reasonably demonstrates that adverse off-site water resource impacts will not be caused by the permitted activity. It is the responsibility of the permittee to insure that such adverse impacts do not in fact occur either during or after construction.

WITHIN 30 DAYS AFTER COMPLETION OF THE PROJECT, THE PERMITTEE SHALL NOTIFY THE DISTRICT, IN WRITING, THAT THE FACILITIES ARE COMPLETE.

Approved by  Date Approved 07/29/10
District Staff



NOTICE OF RIGHTS

1. A person whose substantial interests are or may be determined has the right to request an administrative hearing by filing a written petition with the Suwannee River Water Management District (District), or may choose to pursue mediation as an alternative remedy under Section 120.569 and 120.573, Florida Statutes, before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for pursuing mediation are set forth in Sections 120.569 and 120.57 Florida Statutes. Pursuant to Rule 28-106.111, Florida Administrative Code, the petition must be filed at the office of the District Clerk at District Headquarters, 9225 C.R. 49, Live Oak, Florida 32060 within twenty-one (21) days of receipt of written notice of the decision or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail actual notice). A petition must comply with Chapter 28-106, Florida Administrative Code.
2. If the Governing Board takes action which substantially differs from the notice of District decision to grant or deny the permit application, a person whose substantial interests are or may be determined has the right to request an administrative hearing or may chose to pursue mediation as an alternative remedy as described above. Pursuant to Rule 28-106.111, Florida Administrative Code, the petition must be filed at the office of the District Clerk at District Headquarters, 9225 C.R. 49, Live Oak, Florida 32060 within twenty-one (21) days of receipt of written notice of the decision or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail actual notice). Such a petition must comply with Chapter 28-106, Florida Administrative Code.
3. A substantially interested person has the right to a formal administrative hearing pursuant to Section 120.569 and 120.57(1), Florida Statutes, where there is a dispute between the District and the party regarding an issue of material fact. A petition for formal hearing must comply with the requirements set forth in Rule 28-106.201, Florida Administrative Code.
4. A substantially interested person has the right to an informal hearing pursuant to Section 120.569 and 120.57(2), Florida Statutes, where no material facts are in dispute. A petition for an informal hearing must comply with the requirements set forth in Rule 28-106.301, Florida Administrative Code.
5. A petition for an administrative hearing is deemed filed upon receipt of the petition by the Office of the District Clerk at the District Headquarters in Live Oak, Florida.
6. Failure to file a petition for an administrative hearing within the requisite time frame shall constitute a waiver of the right to an administrative hearing pursuant to Rule 28-106.111, Florida Administrative Code.

Permit No.: ERP08-0345M

Project: HART 2 HART DAYCARE - PHASE II

Page 6 of 7

7. The right to an administrative hearing and the relevant procedures to be followed is governed by Chapter 120, Florida Statutes, and Chapter 28-106, Florida Administrative Code.

8. Pursuant to Section 120.68, Florida Statutes, a person who is adversely affected by final District action may seek review of the action in the District Court of Appeal by filing a notice of appeal pursuant to the Florida Rules of Appellate Procedure, within 30 days of the rendering of the final District action.

9. A party to the proceeding before the District who claims that a District order is inconsistent with the provisions and purposes of Chapter 373, Florida Statutes, may seek review of the order pursuant to Section 373.114, Florida Statutes, by the Florida Land and Water Adjudicatory Commission, by filing a request for review with the Commission and serving a copy of the Department of Environmental Protection and any person named in the order within 20 days of adoption of a rule or the rendering of the District order.

10. For appeals to the District Courts of Appeal, a District action is considered rendered after it is signed on behalf of the District, and is filed by the District Clerk.

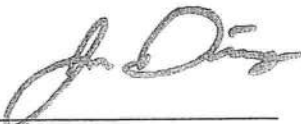
11. Failure to observe the relevant time frames for filing a petition for judicial review, or for Commission review, will result in waiver of the right to review.

CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing Notice of Rights has been sent by U.S. Mail to:

HART 2 HART ACADEMY
747 SW SATELITE LANE
LAKE CITY, FL 32024

At 4:00 p.m. this 29 day of Jan., 2010.



Jon M. Dinges
Deputy Clerk
Suwannee River Water Management District
9225 C.R. 49

Permit No.: ERP08-0345M

Project: HART 2 HART DAYCARE - PHASE II

Page 7 of 7

Live Oak, Florida 32060
386.362.1001 or 800.226.1066 (Florida only)

cc: File Number: ERP08-0345M

Inst: 200812031418 Date: 12/1/2008 Time: 10:27 AM
Doc Stamp-Deed \$15.00
✓ P DCP DeWitt Cassin Columbia County Page 1 of 2 B 1152 P 2597

Warranty Deed

Made this November 26, 2008 A.D.

By JEFFERY E. JONES and SUSAN A. JONES, husband and wife, 362 SW Birley Avenue, Lake City, Florida 32024, hereinafter called the grantor,

to HART 2 HART ACADEMY, INC, whose post office address is: 747 SW Satellite Lane, Lake City, Florida 32024, hereinafter called the grantee:

(Whenever used herein the term "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

Witneseth, that the grantor, for and in consideration of the sum of Ten Dollars, (\$10.00) and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Columbia County, Florida, viz:

See Attached Schedule "A"

Parcel ID Number: 02428-002

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances except taxes accruing subsequent to December 31, 2007.

In Witness Whereof, the said grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in our presence:

Elaine R. Davis

Witness Printed Name Elaine R. Davis

Jeffery E. Jones

JEFFERY E. JONES

Address: 362 SW Birley Avenue, Lake City, Florida 32024

(Seal)

Megan M. Harrell

Witness Printed Name Megan M. Harrell

Susan A. Jones

SUSAN A. JONES

Address:

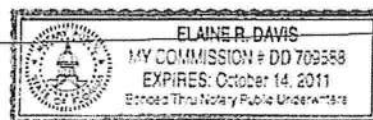
(Seal)

State of Florida
County of COLUMBIA

The foregoing instrument was acknowledged before me this 26th day of November, 2008, by JEFFERY E. JONES and SUSAN A. JONES, husband and wife, who is/are personally known to me or who has produced Drivers licenses as identification.

Elaine R. Davis
Notary Public,
Print Name: ELAINE R. DAVIS

My Commission
Expires:



File Number: 08-322

"Schedule A"

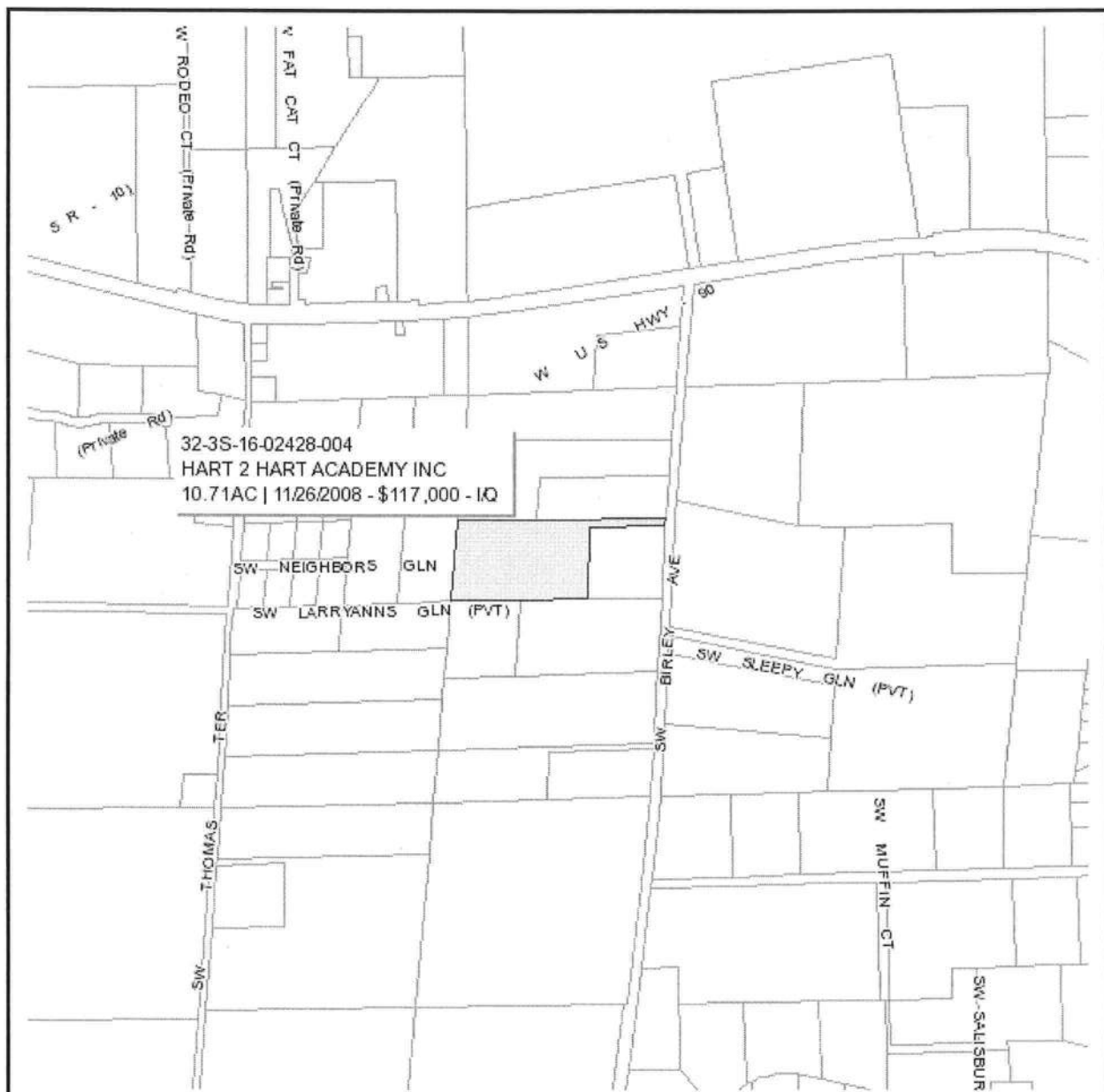
TOWNSHIP 3 SOUTH, RANGE 16 EAST

SECTION 32: Begin at the Southwest corner of the NE 1/4 of the NW 1/4 of Section 32, Township 3 South, Range 16 East, Columbia County, Florida, and run North 5 degrees 28'35" East along the West line of said NE 1/4 of NW 1/4, 499.82 feet; thence North 89 degrees 24'10" East, 1,370.98 feet to the East line of said NE 1/4 of the NW 1/4; thence South 5 degrees 39'44" West along said East line, 33.30 feet; thence South 89 degrees 24'10" West, 466.70 feet; thence South 5 degrees 39'44" West, 466.70 feet to the South line of said NE 1/4 of NW 1/4; thence South 89 degrees 24'10" West along said South line, 902.65 feet to the Point of Beginning. Said lands subject to existing road right-of-way on East side.
IN COLUMBIA COUNTY, FLORIDA.

TOGETHER WITH: 1981 FIESTA SINGLE WIDE MOBILE HOME, ID# FDGA2R2072, TITLE #19895092,
LENGTH 70 X 14

N.B. No junk of any kind or description, including but not limited to junk automobiles, electrical appliances, scrap or surplus building materials, unsightly refuse, or usable articles or materials stored in an unsightly manner, shall be placed or kept upon this property.

Also, there shall not at any time be located upon the property more than one residence for each acre contained in the property, whether such residence be conventional housing or mobile home. These restrictive covenants shall run with the title to the land until December 31, 2010, A.D., at which time they shall expire.



Columbia County Property Appraiser

J. Doyle Crews, CFA - Lake City, Florida - 386-758-1083

PARCEL: 32-3S-16-02428-004 - PRVT SCHL/ (007200)

Name:	HART 2 HART ACADEMY INC	LandVal	\$51,920.00
Site:	BIRLEY	BldgVal	\$171,946.00
Mail:	747 SW SATELLITE LANE LAKE CITY, FL 32024	ApprVal	\$232,316.00
Sales Info		JustVal	\$232,316.00
		Assd	\$232,316.00
		Exmpt	\$0.00
		County:	\$232,316.00 City:
			\$232,316.00
		Other:	\$232,316.00 School:
			\$232,316.00
		Taxable	

0 0.08 0.16 0.24 mi



This information, GIS Map Updated: 1/28/2010, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER _____ CONTRACTOR MATTHEW HENTZELMAN PHONE 386-755-5254

THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is **REQUIRED** that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

ELECTRICAL	Print Name <u>DAVID PHILLIP WOOD</u> Signature _____ License #: <u>EC13002213</u> Phone #: <u>386-364-5246</u>
MECHANICAL/ A/C	Print Name <u>GLENN IVON JONES</u> Signature _____ License #: <u>CAC051486</u> Phone #: <u>386-752-5389</u>
PLUMBING/ GAS	Print Name <u>C. L. BUCK BOYETTE</u> Signature _____ License #: <u>CFC021540</u> Phone #: <u>904-591-7025</u>
ROOFING	Print Name <u>MATTHEW HENTZELMAN</u> Signature <u>MA</u> License #: <u>CCC1329208</u> Phone #: <u>386-755-5254</u>
SHEET METAL <u>NA</u>	Print Name _____ Signature _____ License #: _____ Phone #: _____
FIRE SYSTEM/ SPRINKLER <u>NA</u>	Print Name _____ Signature _____ License #: _____ Phone #: _____
SOLAR <u>NA</u>	Print Name _____ Signature _____ License #: _____ Phone #: _____

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON	000246	ED DENNARD	<u>Ed Dennard</u>
CONCRETE FINISHER	000361	JOSHUA STEEDLEY	<u>Josh Steedley</u>
FRAMING	CGC1517457	AUBREY DELL MOTES	<u>Aubrey Dell Motes</u>
INSULATION	000240	WILLIAM SIKES	<u>William Sikes</u>
STUCCO <u>NA</u>	---	---	---
DRYWALL <u>NA</u>	---	PERFORMED BY CONTRACTOR	---
PLASTER <u>NA</u>	---	---	---
CABINET INSTALLER	000762	STEVE BORDEAUX	<u>Steve Bordeaux</u>
PAINTING	---	PERFORMED BY CONTRACTOR	---
ACOUSTICAL CEILING <u>NA</u>	---	---	---
GLASS <u>NA</u>	---	---	---
CERAMIC TILE	---	PERFORMED BY CONTRACTOR	---
FLOOR COVERING	---	PERFORMED BY CONTRACTOR	---
ALUM/VINYL SIDING	---	PERFORMED BY CONTRACTOR	---
GARAGE DOOR <u>NA</u>	---	---	---
METAL BLDG ERECTOR <u>NA</u>	---	---	---

F. S. 440.103 Building permits; identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.

SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER _____

CONTRACTOR MATTHEW HENTZELMANPHONE 386-755-5254

THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is **REQUIRED** that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-5, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

ELECTRICAL	Print Name <u>DAVID PHILLIP WOOD</u>	Signature <u>[Signature]</u>	Phone #: <u>386-364-5246</u>
	License #: <u>EC13002213</u>		
MECHANICAL/ A/C	Print Name <u>GLENN IVON JONES</u>	Signature _____	Phone #: <u>386-752-5389</u>
	License #: <u>CAC051486</u>		
PLUMBING/ GAS	Print Name <u>C. L. BUCK BOYETTE</u>	Signature _____	Phone #: <u>904-541-7025</u>
	License #: <u>CFCD21540</u>		
ROOFING	Print Name <u>MATTHEW HENTZELMAN</u>	Signature <u>NA</u>	Phone #: <u>386-755-5254</u>
	License #: <u>CCC1329208</u>		
SHEET METAL <u>NA</u>	Print Name _____	Signature _____	Phone #: _____
	License #: _____		
FIRE SYSTEM SPRINKLER <u>NA</u>	Print Name _____	Signature _____	Phone #: _____
	License #: _____		
SOLAR <u>NA</u>	Print Name _____	Signature _____	Phone #: _____
	License #: _____		

Specialty License	License Number	Sub-Contractor Printed Name	Sub-Contractor Signature
MASON	<u>0002460</u>	<u>ED DENNARD</u>	
CONCRETE FINISHER	<u>000361</u>	<u>JOSHUA STECOLEY</u>	<u>[Signature]</u>
FRAMING	<u>CCC1517457</u>	<u>AUBREY DELL MOSES</u>	<u>[Signature]</u>
INSULATION	<u>000240</u>	<u>WILLIAM SIKES</u>	<u>[Signature]</u>
STUCCO <u>NA</u>			
DRYWALL <u>NA</u>		<u>JOSE ERICOLI</u>	<u>[Signature]</u>
PLASTER <u>NA</u>			
CABINET INSTALLER		<u>STEVE BORDEAUX</u>	
PAINTING		<u>PERFORMED BY CONTRACTOR</u>	
ACOUSTICAL CEILING <u>NA</u>			
GLASS <u>NA</u>			
CERAMIC TILE		<u>PERFORMED BY CONTRACTOR</u>	
FLOOR COVERING		<u>PERFORMED BY CONTRACTOR</u>	
ALUM/VINYL SIDING		<u>PERFORMED BY CONTRACTOR</u>	
GARAGE DOOR <u>NA</u>			
METAL BLDG ERECTOR <u>NA</u>			

F. S. 440.103 Building permits; Identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.

Contractor Form 1 Subcontractor Form 1/09



SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER _____ CONTRACTOR MATTHEW HENTZELMAN PHONE 386-755-5254
THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is **REQUIRED** that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

ELECTRICAL	Print Name: <u>DAVID PHILLIP WOOD</u> License #: <u>EC13002213</u>	Signature: _____ Phone #: <u>386-364-5246</u>
MECHANICAL/A/C	Print Name: <u>GLENN IRON JONES</u> License #: <u>CAC051486</u>	Signature: _____ Phone #: <u>386-752-5389</u>
PLUMBING/GAS	Print Name: <u>C. L. BUCK BOYETTE</u> License #: <u>CFC021540</u>	Signature: _____ Phone #: <u>904-591-7025</u>
ROOFING	Print Name: <u>MATTHEW HENTZELMAN</u> License #: <u>CC1329208</u>	Signature: <u>MA</u> Phone #: <u>386-755-5254</u>
SHEET METAL NA	Print Name: _____ License #: _____	Signature: _____ Phone #: _____
FIRE EXTINGUISHER NA	Print Name: _____ License #: _____	Signature: _____ Phone #: _____
SOLAR NA	Print Name: _____ License #: _____	Signature: _____ Phone #: _____

MASON	<u>ED DENNARD</u>
CONCRETE FINISHER	<u>JOSHUA STEFOLLO</u>
FRAMING	<u>AUDREY DELL MUELS</u>
INSULATION	<u>WILLIAM SIFFS</u>
STUCCO NA	_____
DRYWALL	<u>JESSE ERCOLI</u>
PLASTER NA	_____
CABINET INSTALLER	<u>STEVE BURDEAUX</u>
PAINTING	<u>PERFORMED BY CONTRACTOR</u>
ACOUSTICAL CEILING NA	_____
GLASS NA	_____
CERAMIC TILE	<u>PERFORMED BY CONTRACTOR</u>
FLOOR COVERING	<u>PERFORMED BY CONTRACTOR</u>
ALUM/VINYL SIDING	<u>PERFORMED BY CONTRACTOR</u>
GARAGE DOOR NA	_____
METAL BLDG ERECTOR NA	_____

F. S. 440.208 Building permits: Identification of minimum premium policy. Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.28, and shall be presented each time the employer applies for a building permit.

SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER _____ CONTRACTOR MATTHEW HENTZELMAN PHONE 386-755-5254
 THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is **REQUIRED** that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and 440.10, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in COLUMBIA COUNTY.

Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

ELECTRICAL	Print Name: <u>DAVID PHILLIP WOOD</u>	Signature: _____	Phone #: <u>386-364-5246</u>
Mechanical A/C	Print Name: <u>WILLIAM LLOYD DINES</u>	Signature: _____	Phone #: <u>386-752-5389</u>
PLUMBING/ GAS	Print Name: <u>G. L. BEEK ROYETTE</u>	Signature: <u>C. J. Royette Jr.</u>	Phone #: <u>904-571-7025</u>
ROOFING	Print Name: <u>MATTHEW HENTZELMAN</u>	Signature: <u>NA</u>	Phone #: <u>386-755-5254</u>
SHEET METAL NA	Print Name: _____	Signature: _____	Phone #: _____
FIRE SYSTEM/ SPEAKER NA	Print Name: _____	Signature: _____	Phone #: _____
SOLAR NA	Print Name: _____	Signature: _____	Phone #: _____
MASON	<u>ED DENARD</u>		
CONCRETE FINISHER	<u>JOSEPH STEADLEY</u>		
FRAMING	<u>AUDREY DELL MOTE</u>		
INSULATION	<u>WILLIAM SIKES</u>		
STUCCO NA	<u>JOSEF STEWELL</u>		
DRYWALL NA	<u>STACE BURGESS</u>		
PAINTING	<u>PERFORMED BY CONTRACTOR</u>		
ACOUSTICAL CEILING NA	<u>PERFORMED BY CONTRACTOR</u>		
GLASS NA	<u>PERFORMED BY CONTRACTOR</u>		
CERAMIC TILE FLOOR COVERING	<u>PERFORMED BY CONTRACTOR</u>		
ALUM/VINYL SIDING	<u>PERFORMED BY CONTRACTOR</u>		
GARAGE DOOR NA	<u>PERFORMED BY CONTRACTOR</u>		
METAL BLDG ERECTOR NA	<u>PERFORMED BY CONTRACTOR</u>		

It is the policy of this office, in accordance with minimum premium policy. Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.

Contractor To File Subcontractor Verification Form

1002-15

Inst: 201012001969 Date: 2/10/2010 Time: 9:24 AM
DC, P. DeWitt Cason, Columbia County Page 1 of 1 B.1188 P.2428

NOTICE OF COMMENCEMENT

County Clerk's Office Stamp or Seal

Tax Parcel Identification Number 32-35-16-02428-004

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT.

1. Description of property (legal description): SW COR OF NE 1/4 OF NW 1/4 OF SEC, RUN N 499.82 FT.
a) Street (job) Address: 388 SW BIRLEY AVE LAKE CITY FL 32024
2. General description of improvements: 4000 SF NEW CONSTRUCTION CHILD CARE FACILITY

3. Owner Information

- a) Name and address: DALLAS HART / HART-2-HART ACADEMY
- b) Name and address of fee simple titleholder (if other than owner)
- c) Interest in property

4. Contractor Information

- a) Name and address: MATTHEW HENZREMAN / TRADEMARK CONSTRUCTION GROUP, INC.
- b) Telephone No.: 386-755-5254 Fax No. (Opt.) 386-758-4290

5. Surety Information

- a) Name and address:
- b) Amount of Bond:
- c) Telephone No.: Fax No. (Opt.)

6. Lender

- a) Name and address: COLUMBIA BANK 173 NW HILLSBORO ST LAKE CITY FL 32055
- b) Phone No.

7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:

- a) Name and address:
- b) Telephone No.: Fax No. (Opt.)

8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(l)(b). Florida Statutes:

- a) Name and address:
- b) Telephone No.: Fax No. (Opt.)

9. Expiration date of Notice of Commencement (the expiration date is one year from the date of recording unless a different date is specified):

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

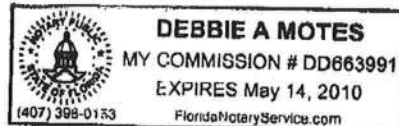
STATE OF FLORIDA
COUNTY OF COLUMBIA

10. [Signature]
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager
DALLAS HART
Print Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 2nd day of February, 2010, by:
Dallas Hart as _____ (type of authority, e.g. officer, trustee, attorney
fact) for _____ (name of party on behalf of whom instrument was executed).

Personally Known _____ OR Produced Identification ☒ Type FL Drivers License

Notary Signature Debbie A. Motes Notary Stamp or Seal:



11. Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

[Signature]
Signature of Natural Person Signing (in line #10 above.)



Columbia County

BUILDING DEPARTMENT

MINIMUM PLAN REQUIREMENTS FOR THE
 FLORIDA BUILDING CODE ,FLORIDA PLUMBING CODE,FLORIDA MECHINICAL
 CODE,FLORIDA FUEL AND GAS CODE 2007 , NATIONAL ELECTRICAL 2005
ALL REQUIREMENTS ARE SUBJECT TO CHANGE

COMMERCIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST

**ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE
 CURRENT FLORIDA BUILDING CODES. ALL PLANS OR DRAWING SHALL
 PROVIDED CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND
 SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED
 IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES,
 APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION.**

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FBC FIGURE 1609 STATE OF FLORIDA WIND SPEED MAP

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75
 ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE ----- 100 MPH
 ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE ----- 110 MPH
 NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

GENERAL REQUIREMENTS:		Items to Include- Each Box shall be Circled as Applicable		
1	All drawings must be clear, concise and drawn to scale, details that are not used shall be marked void.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
2	If the design professional is an architect or engineer legally registered under the laws of this state regulating the practice of architecture as provided for in Chapter 481, Florida Statutes, Part I, or engineering as provided for in Chapter 471, Florida Statutes, then he or she shall affix his or her official seal to said drawings, specifications and accompanying data, as required by Florida Statute.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
3	The design professional signature shall be affixed to the plans	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
4	Two (2) complete sets of plans with the architecture or engineer signature and the date the affix embossed official seal was placed on the plans	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A

Building Site Plan Requirements										Items to Include- Each Box shall be Circled as Applicable		
4	Parking, including provision FBC chapter 11 for the required accessible parking site									Yes	No	N/A
5	Fire access, showing all drive way which will be accessible for emergency vehicles									Yes	No	N/A
6	Driving/turning radius of parking lots									Yes	No	N/A
7	Vehicle loading include truck dock loading or rail site loading									Yes	No	N/A
8	Nearest or number of onsite Fire hydrant/water supply/post indicator valve (PIV)									Yes	No	N/A
9	Set back of all existing or proposed structures from each structure and property boundaries, Show all separation including assumed property lines									Yes	No	N/A
10	Location of specific tanks(above or under grown ,water lines and sewer lines and septic tank and drain fields									Yes	No	N/A
11	All structures exterior views include finished floor elevation									Yes	No	N/A
12	Total height of structure(s) form established grade									Yes	No	N/A
Occupancy group use circle all uses:		Group A	Group B	Group E	Group F	Group H	Group I	Group M	Group R	Group S	Group U D	
13	Special occupancy requirements.									Yes	No	N/A
14	Incidental use areas (total square footage for each room of use area)									Yes	No	N/A
15	Mixed occupancies									Yes	No	N/A
16	REQUIRED SEPARATION OF OCCUPANCIES IN HOURS FBC TABLE 302.3.2									Yes	No	N/A
Minimum type of permitted construction by code for occupancy use circle the construction type FBC 602												
17	Type I	Type II	Type III	Type IV	Type V							

Fire-resistant construction requirements shall be shown, include the following components					
18	Fire-resistant separations		Yes	No	N/A
19	Fire-resistant protection for type of construction		Yes	No	N/A
20	Protection of openings and penetrations of rated walls		Yes	No	N/A
21	Protection of openings and penetrations of rated walls		Yes	No	N/A
22	Fire blocking and draftstopping and calculated fire resistance		Yes	No	N/A
Fire suppression systems shall be shown include:					
23	Early warning smoke evacuation systems Schematic fire sprinklers Standpipes		Yes	No	N/A
24	Standpipes		Yes	No	N/A
25	Pre-engineered systems		Yes	No	N/A
26	Riser diagram		Yes	No	N/A
Life safety systems shall be shown include the following requirements:					
27	Occupant load and egress capacities		Yes	No	N/A
28	Early warning		Yes	No	N/A
29	Smoke control		Yes	No	N/A
30	Stair pressurization		Yes	No	N/A
31	Systems schematic		Yes	No	N/A
Occupancy load/egress requirements shall be shown include:					
32	Occupancy load		Yes	No	N/A
33	Gross occupancy load		Yes	No	N/A
34	Net occupancy load		Yes	No	N/A
35	Means of egress		Yes	No	N/A
36	Exit access		Yes	No	N/A
37	Exit discharge		Yes	No	N/A
38	Stairs construction/geometry and protection		Yes	No	N/A
39	Doors		Yes	No	N/A
40	Emergency lighting and exit signs		Yes	No	N/A
41	Specific occupancy requirements		Yes	No	N/A
42	Construction requirements		Yes	No	N/A
43	Horizontal exits/exit passageways		Yes	No	N/A

**Items to Include-
Each Box shall
be Circled as
Applicable**

Structural requirements shall be shown include:				
44	Soil conditions/analysis	Yes	No	N/A
45	Termite protection	Yes	No	N/A
46	Design loads	Yes	No	N/A
47	Wind requirements	Yes	No	N/A
48	Building envelope	Yes	No	N/A
49	Structural calculations (if required)	Yes	No	N/A
50	Foundation	Yes	No	N/A
51	Wall systems	Yes	No	N/A
52	Floor systems	Yes	No	N/A
53	Roof systems	Yes	No	N/A
54	Threshold inspection plan	Yes	No	N/A
55	Stair systems	Yes	No	N/A
Materials shall be shown include the following				
56	Wood	Yes	No	N/A
57	Steel	Yes	No	N/A
58	Aluminum	Yes	No	N/A
59	Concrete	Yes	No	N/A
60	Plastic	Yes	No	N/A
61	Glass	Yes	No	N/A
62	Masonry	Yes	No	N/A
63	Gypsum board and plaster	Yes	No	N/A
64	Insulating (mechanical)	Yes	No	N/A
65	Roofing	Yes	No	N/A
66	Insulation	Yes	No	N/A
Accessibility requirements shall be shown include the following				
67	Site requirements	Yes	No	N/A
68	Accessible route	Yes	No	N/A
69	Vertical accessibility	Yes	No	N/A
70	Toilet and bathing facilities	Yes	No	N/A
71	Drinking fountains	Yes	No	N/A
72	Equipment	Yes	No	N/A
73	Special occupancy requirements	Yes	No	N/A
74	Fair housing requirements	Yes	No	N/A
Interior requirements shall include the following				
75	Interior finishes (flame spread/smoke development)	Yes	No	N/A
76	Light and ventilation	Yes	No	N/A
77	Sanitation	Yes	No	N/A
Special systems				
78	Elevators	Yes	No	N/A
79	Escalators	Yes	No	N/A
80	Lifts	Yes	No	N/A
Swimming pools				
81	Barrier requirements	Yes	No	N/A
82	Spas	Yes	No	N/A
83	Wading pools	Yes	No	N/A

Items to Include-Each Box shall be Circled as Applicable				
Electrical				
84	Wiring	Yes	No	N/A
85	Services	Yes	No	N/A
86	Feeders and branch circuits	Yes	No	N/A
87	Overcurrent protection	Yes	No	N/A
88	Grounding	Yes	No	N/A
89	Wiring methods and materials	Yes	No	N/A
90	GFCIs	Yes	No	N/A
91	Equipment	Yes	No	N/A
92	Special occupancies	Yes	No	N/A
93	Emergency systems	Yes	No	N/A
94	Communication systems	Yes	No	N/A
95	Low voltage	Yes	No	N/A
96	Load calculations	Yes	No	N/A
Plumbing				
97	Minimum plumbing facilities	Yes	No	N/A
98	Fixture requirements	Yes	No	N/A
99	Water supply piping	Yes	No	N/A
100	Sanitary drainage	Yes	No	N/A
101	Water heaters	Yes	No	N/A
102	Vents	Yes	No	N/A
103	Roof drainage	Yes	No	N/A
104	Back flow prevention	Yes	No	N/A
105	Irrigation	Yes	No	N/A
106	Location of water supply line	Yes	No	N/A
107	Grease traps	Yes	No	N/A
108	Environmental requirements	Yes	No	N/A
109	Plumbing riser	Yes	No	N/A
Mechanical				
110	Energy calculations	Yes	No	N/A
111	Exhaust systems	Yes	No	N/A
112	Clothes dryer exhaust	Yes	No	N/A
113	Kitchen equipment exhaust	Yes	No	N/A
114	Specialty exhaust systems	Yes	No	N/A
Equipment location				
115	Make-up air	Yes	No	N/A
116	Roof-mounted equipment	Yes	No	N/A
117	Duct systems	Yes	No	N/A
118	Ventilation	Yes	No	N/A
119	Laboratory	Yes	No	N/A
120	Combustion air	Yes	No	N/A
121	Chimneys, fireplaces and vents	Yes	No	N/A
122	Appliances	Yes	No	N/A
123	Boilers	Yes	No	N/A
124	Refrigeration	Yes	No	N/A
125	Bathroom ventilation	Yes	No	N/A

Items to Include-Each Box shall be Circled as Applicable					
Gas					
126	Gas piping	Yes	No	N/A	
127	Venting	Yes	No	N/A	
128	Combustion air	Yes	No	N/A	
129	Chimneys and vents	Yes	No	N/A	
130	Appliances	Yes	No	N/A	
131	Type of gas	Yes	No	N/A	
132	Fireplaces	Yes	No	N/A	
133	LP tank location	Yes	No	N/A	
134	Riser diagram/shutoffs	Yes	No	N/A	
Notice of Commencement					
135	A recorded (in the Columbia County Clerk Office) notice of commencement is required to be on file with the building department. <i>Before Any Inspections Will Be Done</i>		Yes	No	N/A
Disclosure Statement for Owner Builders					
			Yes	No	N/A

Private Potable Water				
136	Horse power of pump motor	Yes	No	N/A
137	Capacity of pressure tank	Yes	No	N/A
138	Cycle stop valve if used	Yes	No	N/A

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

139	Building Permit Application	A current Building Permit Application form is to be completed and submitted for all construction projects.	Yes	No	N/A
140	Parcel Number	The parcel number (Tax ID number) from the Property Appraiser is required. A copy of property deed is also requested. (386) 758-1084	Yes	No	N/A
141	Environmental Health Permit or Sewer Tap Approval	A copy of an approved Environmental Health (386) 758-1058 waste water disposal permit or an approved City of Lake City (386) 752-2031 sewer tap is required before a building permit can be issued. Toilet facilities shall be provided for construction workers	PENDING Yes	No	N/A
142	Driveway Connection	If the property does not have an existing access to a public road, then an application for a culvert permit must be made (\$25.00). Culvert installation for commercial, industrial and other uses shall conform to the approved site plan or to the specifications of a registered engineer. Use or joint use of driveways will comply with Florida Department of Transportation specifications. If the project is to be located on an F.D.O.T. maintained road, then an F.D.O.T. access permit is required.	Yes	No	N/A
143	Suwannee River Water Management District Approval	All commercial projects must have an SRWMD permit issued or an exemption letter, before a building permit will be issued.	Yes	No	N/A

144	Flood Management	Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of section 8.5.2 of the Columbia County Land Development Regulations. Any project that is located within a flood zone where the base flood elevation (100 year flood) has not been established shall meet the requirements of section 8.5.3 of Columbia County Land Development Regulations. A development permit will also be required. The development permit cost is \$50.00	Yes	No	N/A
145	Flood Management	A CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.	Yes	No	N/A
146	911 Address	If the project is located in an area where a 911 address has not been issued, then application for a 911 address must be applied for and received through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125	Yes	No	N/A

Section 105 of the Florida Building Code defines the:

Time limitation of application.

An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

Permit intent.

Section 105.4.1: A permit issued shall be constructed to be a license to proceed with the work and not as authority to violate, cancel, alter or set aside any of the provisions of the technical codes, nor shall issuance of a permit prevent the building official from thereafter requiring a correction of errors in plans, construction or violations of this code. Every permit issued shall become invalid unless the work authorized by such permit is commenced within six months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of six months after the time the work is commenced.

If work has commenced.

Section 105.4.1.1: If work has commenced and the permit is revoked, becomes null and void, or expires because of lack of progress or abandonment, a new permit covering the proposed construction shall be obtained before proceeding with the work.

Section 105 of the Florida Building Code defines the:

New Permit.

Section 105.4.1.2: If a new permit is not obtained within 180 days from the date the initial permit became null and void, the building official is authorized to require that any work which has been commenced or completed be removed from the building site. Alternately, a new permit may be issued on application, providing the work in place and required to complete the structure meets all applicable regulations in effect at the time the initial permit became null and void and any regulations which may have become effective between the date of expiration and the date of issuance of the new permit.

Work Shall Be:

Section 105.4.1.3: Work shall be considered to be in active progress when the permit has received an approved inspection within 180 days. This provision shall not be applicable in case of civil commotion or strike or when the building work is halted due directly to judicial injunction, order or similar process.

The Fee:

Section 105.4.1.4: The fee for renewal reissuance and extension of a permit shall be set forth by the administrative authority.


When the submitted application is approved for permitting the applicant will be notified by phone as to the date and time a building permit will be prepared and issued by the Columbia County Building & Zoning Department.

PRODUCT APPROVAL SPECIFICATION SHEET

Location: 388 SW BIRLEY RD

Project Name: HART-2-HART ACADEMY PHASE II

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are **applying for a building permit on or after April 1, 2004**. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging	Therma Tru	FIBERGLASS DOOR WOOD FRAME	8838.1
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung	P6T INDUSTRIES	SH-600 ALUMINUM	239.5
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass-through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11. Dual Action			
12. Other			
C. PANEL WALL			
1. Siding			
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles	ELK	LAMINATED ASPHALT SHINGLE	5524.1
2. Underlayments			
3. Roofing Fasteners			
4. Non-structural Metal Rf			
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

Category/Subcategory (cont.)	Manufacturer	Product Description	Approval Number(s)
13. Liquid Applied Roof Sys			
14. Cements-Adhesives – Coatings			
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other			
E. SHUTTERS			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
F. SKYLIGHTS			
1. Skylight			
2. Other			
G. STRUCTURAL COMPONENTS			
1. Wood connector/anchor			
2. Truss plates			
3. Engineered lumber			
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
H. NEW EXTERIOR ENVELOPE PRODUCTS			
1.			
2.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

I understand these products may have to be removed if approval cannot be demonstrated during inspection

Contractor or Contractor's Authorized Agent Signature

Location

Print Name

Date

Permit # (FOR STAFF USE ONLY)

CertainTeed

#28429

Builders Statement**InsulSafe® SP
Fiber Glass Blowing Insulation**Hart to Hart Daycare Buid 2nd

Homeowner Name / Jobsite Name

388 S.W. Birley St Lake City FL

Home Address

Bruce Spier

Installer / Contractor (sign)

Company Name

Date

Builder (sign)

Company Name

Date

Inspected By (sign if required)

Date

OPEN ATTIC APPLICATION

R-VALUE	MINIMUM BAGS PER 1000 SQ. FT.	MAXIMUM NET SQ. FT. PER BAG COVERAGE	MINIMUM WEIGHT- POUNDS PER SQ. FT.	MINIMUM INSTALLED THICKNESS	MINIMUM SETTLED THICKNESS
To obtain a thermal resistance (R) of:	Bags per 1000 sq. ft. of net area:	Contents of bag shall not cover more than: (sq. ft.)	Weight per sq. ft. of installed insulation shall not be less than: (lbs.)	Installed insulation shall not be less than: (in.)	Minimum settled insulation shall not be less than: (in.)
60	31.4	31.9	0.972	22.00	22.00
49	26.2	39.7	0.780	18.50	18.50
44	22.4	44.6	0.695	16.75	16.75
38	19.1	52.5	0.591	14.50	14.50
30	14.9	67.1	0.462	11.75	11.75
26	12.8	77.9	0.398	10.25	10.25
22	10.8	92.9	0.334	8.75	8.75
19	9.3	107.4	0.289	7.75	7.75
13	6.2	161.7	0.192	5.25	5.25
11	5.3	190.5	0.163	4.50	4.50

	R-VALUE	THICKNESS	NET AREA (SQ. FT.)	INSULSAFE SP (✓)	BAGS USED	BATTS/ROLLS (✓)
CEILINGS	30	12	4088		63	
WALLS	13	3 5/8	2250		19	
FLOORS						

THERMAL PERFORMANCE--ATTIC BLOWING APPLICATION

- In accordance with the chart above, you must install the minimum number of bags per 1,000 sq. ft. of net area for each R-Value listed.
- The maximum net coverage must not exceed that specified for each R-Value.
- The insulation must be installed at or above the specified installed thickness for each R-Value.
- Failure to install the required minimum weight per sq. ft. of insulation at or above the initial installed thickness will result in reduced R-Value.
- This product should not be mixed with other blown insulations or the thermal claims will become invalid.

DANGER: RECESSED LIGHT FIXTURES—TO PREVENT OVERHEATING, DO NOT INSULATE ON TOP OR WITHIN 3" OF SUCH DEVICES. THIS WARNING DOES NOT APPLY TO TYPE IC LIGHT FIXTURES OR TO FLUORESCENT FIXTURES WITH THERMALLY PROTECTED BALLASTS.



COLUMBIA COUNTY FIRE / RESCUE

P.O. BOX 1529 LAKE CITY, FLORIDA
Office (386) 754-7071 Fax (386) 754-7064

David L. Boozer
Division Chief

13 August 2010

TO: Harry Dicks
Columbia County Building and Zoning

FROM: David L. Boozer
Division Chief / Fire Marshal
Florida State Fire Inspector #146595

RE: Final Inspection
Hart2Hart Academy, Building 2

A Fire Safety Inspection was performed today of your facility located at 388 SW Birley Avenue in Lake City, Florida. At the time of my inspection I found your building meets the requirements as set forth in Chapter 16, of the Florida Fire Prevention Code, 2007 edition. And recommend approval.

Please feel free to contact my office should you have any questions regard this or any other fire related issues.

Sincerely,



Crews Engineering Services, LLC

P.O. Box 970
Lake City, FL 32056
Phone: 386.623.4303
Fax: 386.754.4085
brett@crewsengineeringservices.com

PROJECT NAME: Hart-2-Hart Academy Phase II Permit # 28429
PROJECT LOCATION: 388 SW Birley Ave Lake City, FL 32024
CONTRACTOR: Trademark Construction Group, Inc. CGC1514780
ADDRESS: 128 SW Nassau Street Lake City, FL 32025
PHONE: 386-755-5254 or 386-365-8438

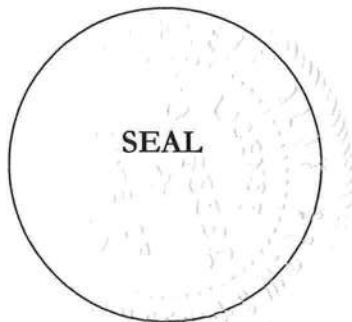
Columbia County Building Department,

I, Brett A. Crews, was hired by Trademark Construction Group, Inc. to provide building inspection services for the above project. I have completed all inspections preceding the final inspections for power and Certificate of Occupancy. Included with this letter are my inspection reports and documentation of passed inspections. It is my determination that all work to date meets current Florida Building Codes and the project ready for a power inspection.

Brett A. Crews, P.E. 65592
Crews Engineering Services, LLC.

7-29-2010

Date





Crews Engineering Services, LLC

P.O. Box 970
Lake City, FL 32056
Phone: 386.623.4303
Fax: 386.754.4085
brett@crewsengineeringservices.com

Commercial Construction Inspection Reports

PROJECT NAME: Hart-2-Hart Academy Phase II Permit # 28429
PROJECT LOCATION: 388 SW Birley Ave Lake City, FL 32024
CONTRACTOR: Trademark Construction Group, Inc. CGC1514780
ADDRESS: 128 SW Nassau Street Lake City, FL 32025
PHONE: 386-755-5254 or 386-365-8438

PROJECT DESCRIPTION: 4088 sf child care facility, new construction, wood framed, stemwall foundation

Temporary Power

- N/A

Footing (Inspection performed 3/16/2010)

- All steel properly installed and tied
- Compaction test passed
- Grounding wire attached at east end of structure

Monolithic

- N/A

Plumbing rough/under slab (Inspection performed 3/30/2010)

- Pressure tested at 100 psi passed
- 5 foot head on all waste passed
- All work installed per Florida Building Code

Slab (Inspection performed 4/1/2010)

- Elevation Letter
- Building elevation 100.55' minimum required is 100.5'
- Termite treatment performed
- Fill compaction test passed
- All work installed per Florida Building Code

Sheathing (Inspection performed 6/24/2010)

- All roof and wall sheathing installed per code

Framing (Inspection performed 6/24/2010)



Crews Engineering Services, LLC

P.O. Box 970
Lake City, FL 32056
Phone: 386.623.4303
Fax: 386.754.4085
brett@crewsengineeringservices.com

- 2 anchor bolts missing
- Gable end wall bracing installed incorrectly
- 1 broken truss web
- All other items installed per code
- Corrections to be inspected at Insulation inspection

Plumbing rough/above slab (Inspection performed 6/24/2010)

- Pressure tests all pass
- Nail plates installed
- All other items installed per code

Rough electrical (Inspection performed 6/24/2010)

- Everything installed per code
- All wiring installed in armored cable and properly grounded
- Wires properly stapled

HVAC (Inspection performed 6/24/2010)

- Ducts sized correctly per engineered documents
- Mastic on all joints and insulated properly

Insulation (Inspection performed 6/29/2010)

- Roof installed
- Dry-in complete
- Baffles for blown insulation in
- Wall insulation installed per plans and energy calculations
- Fire blocking installed per code
- All corrections from previous inspections complete

Lintels

- N/A

Permanent power

- N/A

Final/ C.O.

- To be performed by County Building Inspector


Brett A. Crews, P.E. 65592

- see attached for further documentation

7-29-2010
Date



Crews Engineering Services, LLC

P.O. Box 970
Lake City, FL 32056
Phone: 386.623.4303
Fax: 386.754.4085
brett@crewsengineeringservices.com

Commercial Construction Inspection Sheet

PROJECT NAME: Hart-2-Hart Academy Phase II
PROJECT LOCATION: 388 SW Birley Ave Lake City, FL 32024
CONTRACTOR: Trademark Construction Group, Inc. CGC1514780
ADDRESS: 128 SW Nassau Street Lake City, FL 32025
PHONE: 386-755-5254 or 386-365-8438

PROJECT DESCRIPTION: 4088 sf child care facility, new construction, wood framed, stemwall foundation

Building

Temporary Power _____
date/app. by

Footing 3/16/2010 Brett A. Crews
date/app. by

Monolithic _____
date/app. by

Plumbing rough/under slab 3-30-2010 Brett A. Crews
date/app. by

Slab 4-7-2010 Brett A. Crews
date/app. by

Sheathing 6/24/2010 Brett A. Crews
date/app. by

Framing 6-24-2010 Brett A. Crews
date/app. by

Plumbing rough/above slab 6-24-2010 Brett A. Crews
date/app. by

Rough electrical 6-24-2010 Brett A. Crews
date/app. by

HVAC 6-24-2010 Brett A. Crews
date/app. by

Lintels _____
date/app. by

Permanent power _____
date/app. by

C.O./ Final _____
date/app. by

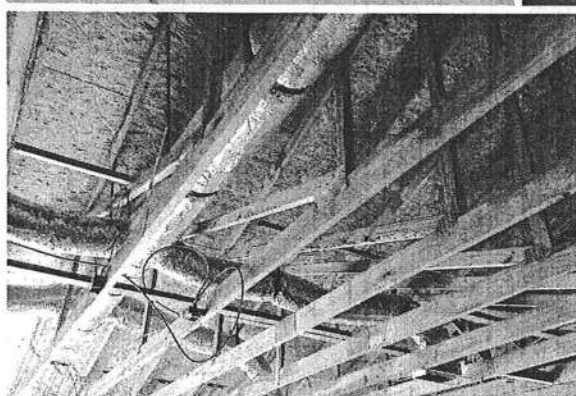
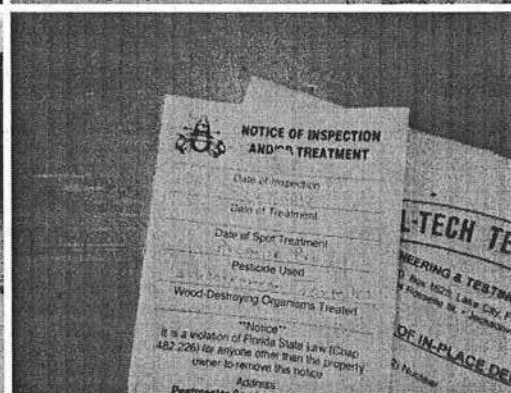
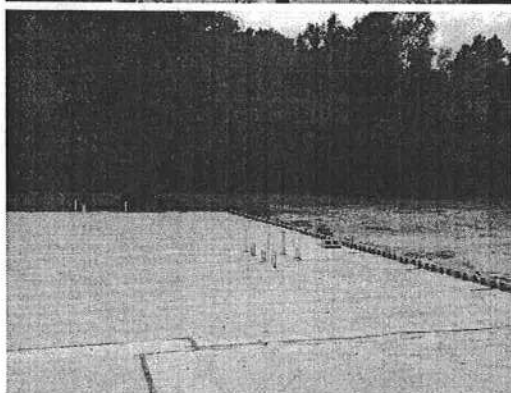
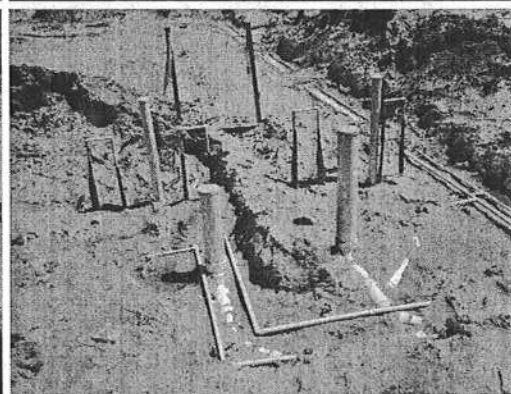
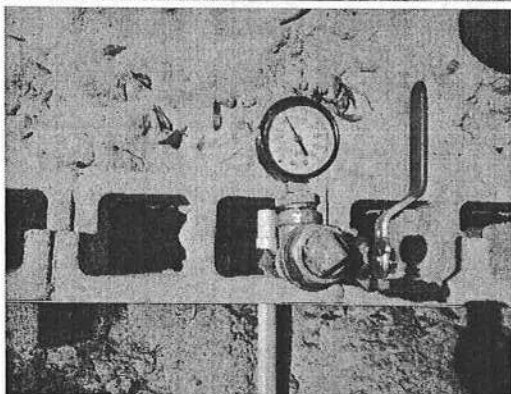
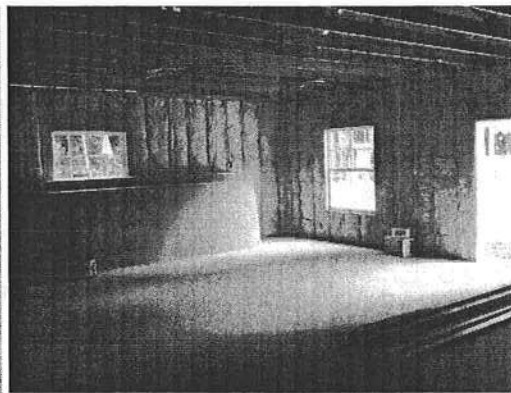
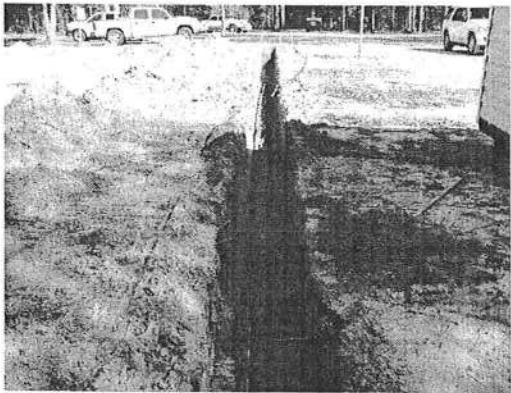
Insulation 6-29-2010 Brett A. Crews

* In addition to the requirements of this inspection form, there may be additional requirements or restrictions applicable to this property that may be found in the public records of the applicable county. It is the Contractor's responsibility to obtain all necessary permits and notices.

CES

Crews Engineering Services, LLC

P.O. Box 970
Lake City, FL 32056
Phone: 386.623.4303
Fax: 386.754.4085
brett@crewsengineeringservices.com



Footing Inspection-

3/16/2010

Steel # 5 rebar properly installed

Compaction test passed

Ground wire attached east side of building

PERMIT
28429



- Engineering
- Geotechnical
- Environmental

Laboratories

Cal-Tech Testing, Inc.

P.O. Box 1625 • Lake City, FL 32056-1625 • Tel(386)755-3633 • Fax(386)752-5456

4784 Rosselle St., Jacksonville, FL 32254 • Tel(904)381-8901 • Fax(904)381-8902

REPORT OF IN-PLACE DENSITY TEST

JOB NO.: 10-00120-01

DATE TESTED: 3/16/10

DATE REPORTED: 3/17/10

PROJECT:	Hart to Hart Academy After School Building
CLIENT:	Trademark Construction Group, Inc. 128 SW Nassau Street, Lake City, FL 32025
GENERAL CONTRACTOR:	Trademark Construction Group, Inc.
EARTHWORK CONTRACTOR:	Trademark Construction Group, Inc.
INSPECTOR:	Chad Day

ASTM METHOD (D-2922) Nuclear	SOIL USE OTHER
SPECIFIED REQUIREMENTS: 95%	

TEST NO.	TEST LOCATION	TEST DEPTH	WET DENSITY (lb/ft ³)	MOISTURE PERCENT	DRY DENSITY (lb/ft ³)	PROCTOR TEST NO.	PROCTOR VALUE	MAXIMUM DENSITY
1	North Footing - North Corner 10' West	12"	115.1	9.5	105.1	09-030-1	110.0	96%
2	East Footing - NE Corner 30' South	12"	112.5	7.0	105.1	09-030-1	110.0	96%
3	South Footing - SE Corner 15' West	12"	112.2	7.8	104.1	09-030-1	110.0	95%
4	West Footing - SW Corner 25' North	12"	112.6	7.3	104.9	09-030-1	110.0	95%

REMARKS: The Above Tests Meet Specified Requirements.

PROCTORS				
PROCTOR NO.	SOIL DESCRIPTION	MAXIMUM DRY UNIT WEIGHT (lb/ft ³)	OPT. MOIST.	TYPE
09-030-1	Tan Fine Sand	110.0	11.0	MODIFIED (ASTM D-1557)

Respectfully Submitted,
CAL-TECH TESTING, INC.

Linda Creamer, CEO, DBE
Linda M. Creamer
President - CEO

ee

Reviewed By:

[Signature]
Date: 3/19/2010
Licensed, Florida No: 57842

The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test locations and change with time, sound judgement should be exercised with regard to the use and interpretation of the data.

Plumbing rough 3-30-2010

pressure tested 100 psi

5 ft head placed on all waste line

Everything installed per Florida building code

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525
(exp. 11/30/2008)

This form is completed by the licensed Pest Control Company.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.

Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential.

This report is submitted for informational purposes to the builder on proposed (new) construction cases when soil treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA, or VA.

All contracts for services are between the Pest Control Operator and builder, unless stated otherwise.

Section 1: General Information (Treating Company Information)

Company Name: PESTMASTER SERVICES OF LAKE CIT

Company Address 187 SE COUNTRY CLUB RD #101 City LAKE CITY State FL Zip 32025

Company Business License No. JB114467

Company Phone No. 386-752-7779

FHA/VA Case No. (if any) _____

Section 2: Builder Information

Company Name TRADEMARK CONSTRUCTION

Phone No. 386-755-5254

Section 3: Property Information

388 SW BIRLEY AVE
LAKE CITY, FL 32024

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip)

Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other _____

Approximate Depth of Footing: Outside 1' Inside 1' Type of Fill DIRT/SAND

Section 4: Treatment Information

Date(s) of Treatment(s) 04/06/10

Brand Name of Product(s) Used PREMISE PRO

EPA Registration No. 432-1449

Approximate Final Mix Solution % .05

Approximate Size of Treatment Area: Sq. ft. 4050 Linear ft. 258 Linear ft. of Masonry Voids 258

Approximate Total Gallons of Solution Applied 600

Was treatment completed on exterior? ☐ Yes ☒ No

Service Agreement Available? ☒ Yes ☐ No

Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List) _____

Comments _____

Name of Applicator(s) TOMMY HOOK

Certification No. (if required by State law) JE75647

The applicator has used a product in accordance with the product label and state requirements. All treatment materials and methods used comply with state and federal regulations.

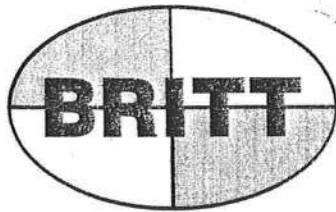
Authorized Signature M. J. Stur

Date 7-29-10

Warning: HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010, 1012; 31 U.S.C. 3729, 3802)

Form NPCA-99-B may still be used

form HUD-NPCA-99-B (04/2003)



Land Surveyors
and Mappers

BRITT SURVEYING & ASSOCIATES

830 West Duval Street • Lake City, FL 32055
Phone (386) 752-7163 • Fax (386) 752-5573

OK
BLK
29/07/10
try to obtain
an original

03/23/2010

L-20313

To Whom It May Concern:

C/o: Trademark Construction

Re: 32-3S-16-02428-004

The elevation of the finished stem wall is 100.55 feet. The minimum finished floor elevation according to the construction plan is 100.50 feet. The highest adjacent grade is 100.26 feet. The lowest adjacent grade is 99.62 feet. The datum shown hereon is NGVD 29 datum.

L. Scott Britt
PLS #5757



- Engineering
 - Geotechnical
 - Environmental
- Laboratories**

Cal-Tech Testing, Inc.

P.O. Box 1625 • Lake City, FL 32056-1625 • Tel(386)755-3633 • Fax(386)752-5456
 4784 Rosselle St., Jacksonville, FL 32254 • Tel(904)381-8901 • Fax(904)381-8902

REPORT OF IN-PLACE DENSITY TEST

JOB NO.: 10-00120-01
 DATE TESTED: 3/19/10
 DATE REPORTED: 3/24/10

PROJECT:	Hart to Hart Academy After School Building	
CLIENT:	Trademark Construction Group, Inc. 128 SW Nassau Street, Lake City, FL 32025	
GENERAL CONTRACTOR:	Trademark Construction Group, Inc.	
EARTHWORK CONTRACTOR:	Trademark Construction Group, Inc.	
INSPECTOR:	Terry Hygema	
ASTM METHOD		SOIL USE
(D-2922) Nuclear ▼		BUILDING FILL ▼
SPECIFIED REQUIREMENTS: 95%		

TEST NO.	TEST LOCATION	TEST DEPTH	WET DENSITY (lb/ft ³)	MOISTURE PERCENT	DRY DENSITY (lb/ft ³)	PROCTOR TEST NO.	PROCTOR VALUE	MAXIMUM DENSITY
Building Pad								
5	12' West x 26' South from NE Corner of Building	12"	110.7	4.8	105.6	Pit	105.2	100%
6	20' South x 25' West from NE Corner of Building	12"	106.7	4.1	102.5	Pit	105.2	97%
7	12' South x 12' East from NW Corner of Building	12"	111.3	4.9	106.1	Pit	105.2	101%

REMARKS: The Above Tests Meet Specified Requirements. ▼

PROCTORS				
PROCTOR NO.	SOIL DESCRIPTION	MAXIMUM DRY UNIT WEIGHT (lb/ft ³)	OPT. MOIST.	TYPE
Pit	Light Tan Sand (Register - Everett Rd.)	105.2	12.4	MODIFIED (ASTM D-1557) ▼

Respectfully Submitted,
 CAL-TECH TESTING, INC.

Linda Creamer, CEO, DBE
 Linda M. Creamer
 President - CEO

Reviewed By:

[Signature]
 Date: 3/26/2010
 Licensed, Florida No: 57842

The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test locations and change with time, sound judgement should be exercised with regard to the use and interpretation of the data.

Slab inspection

Elevation Letter

Building elevation 100.55 minimum required 100.50

Termite Treatment complete

Imported Fill compaction test pass

All per ~~Vapor~~ ~~Every~~ ~~thing~~ installed per code

Sheathing 6/24/2010

All roof and wall sheathing installed
per code.

Framing -

~~Anchor bolts missing~~ or

2 locations where anchor bolts
missing

gable end wall bracing installed incorrectly

Broken truss web

Everything else installed per code

Correction to be checked at Insulation Inspection

THIS DRAWING SPECIFIES REPAIRS FOR A TRUSS WITH CRACKED OR BROKEN WEBS.

THIS DESIGN IS VALID ONLY FOR SINGLE PLY TRUSSES WITH 2X4 #3, STUD, OR STANDARD CRACKED OR BROKEN WEBS. NO MORE THAN 1 CRACK OR BREAK PER WEB AND 2 CRACKED OR BROKEN WEBS PER TRUSS ARE ALLOWED. CONTACT THE TRUSS MANUFACTURER FOR ANY REPAIRS THAT DO NOT COMPLY WITH THIS DETAIL.

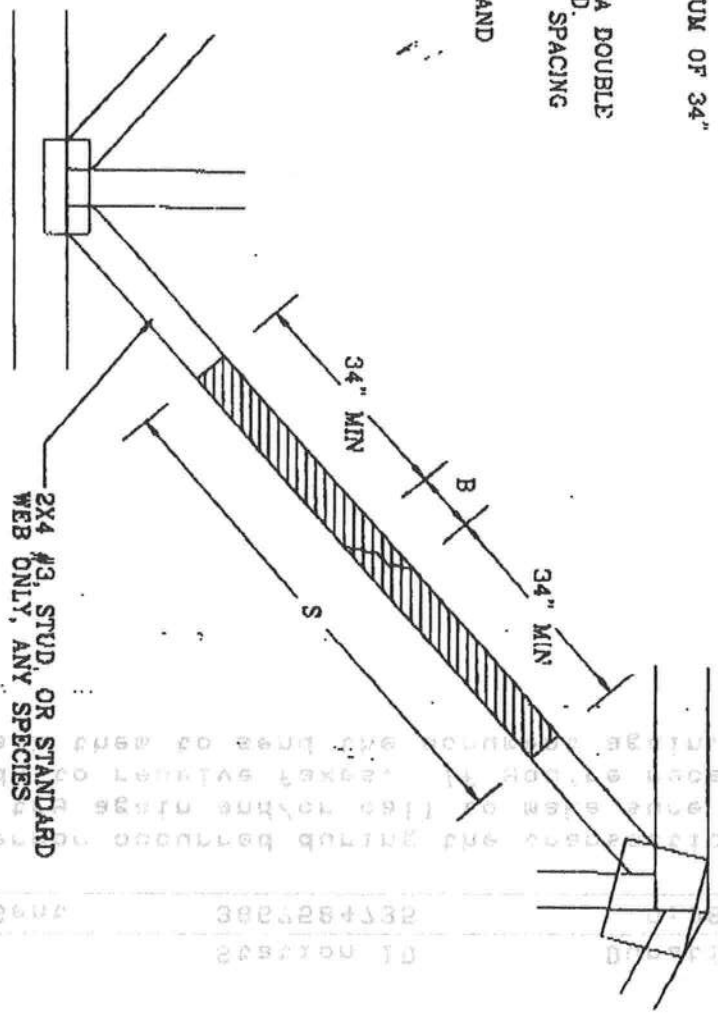
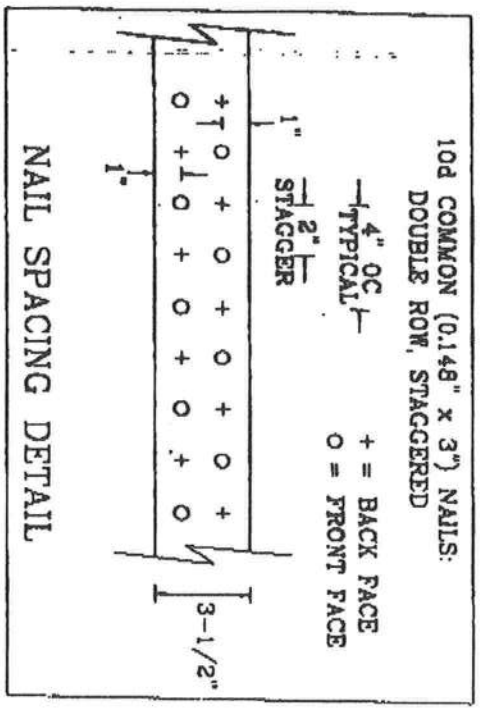
CRACKED OR BROKEN WEB REPAIR DETAIL

(B) = DAMAGED AREA, 0" MIN TO 12" MAX LENGTH OF CRACK OR BREAK IN WEB.

(S) = (2) 2X4 SCABS, SAME GRADE, SPECIES AS WEB MEMBER. MINIMUM LENGTH OF SCAB MUST BE THE GREATER OF:
1. 66" + LENGTH OF DAMAGED AREA (B). MINIMUM OF 34"
OR
2. 80% OF THE ORIGINAL WEB LENGTH.

ATTACH ONE SCAB TO EACH FACE OF THE WEB WITH A DOUBLE ROW OF 10d COMMON NAILS SPACED 4" OC STAGGERED. REFER TO NAIL SPACING DETAIL FOR ADDITIONAL NAIL SPACING INFORMATION.

NOTE: FIELD REPAIRS MUST COMPLY WITH ALPINE DESIGNS AND SPECIFICATIONS.



THIS DRAWING REPLACES DRAWINGS HCE6094073 & 958,048

TRUSS REPAIR

DAMAGED TRUSSES MUST BE CAREFULLY EVALUATED TO DETERMINE THE EXTENT OF DAMAGE AND THE FEASIBILITY OF REPAIR. IN SOME CASES THE PROPER SOLUTION IS TO SCAP THE DAMAGED TRUSSES AND REBUILD. INTERNAL WOOD FIBER DAMAGE AND EXCESS CONNECTION STRESS FROM BENDING OR SHOCK CANNOT BE READILY DETECTED. THEREFORE, IT IS VITAL THAT THE TRUSS FABRICATOR AND BUILDING CONTRACTOR CONSIDER THE CAUSE OF THE DAMAGE IN THEIR DECISION WHETHER TO REPAIR OR REBUILD.

REPAIR WORK SHOWN ON THIS DRAWING APPLIES ONLY TO THOSE SECTIONS OF THE TRUSS REPAIR BY THE TRUSS MANUFACTURER TO HAVE BEEN DAMAGED. A QUALIFIED THIRD PARTY INSPECTOR SHALL CHECK TRUSSES TO DETERMINE THE



REF	WEB REPAIR
DATE	11/26/03
DRWG	REPWEBSC1103
ENG	MLH/KAR

Plumbing rough / Above Slab 6-24-2010

lines pressure tested 100 psi

Mail plate installed

Everything installed per code

Rough Electrical 6-24-2010

Every thing installed per code

All wiring installed in armored cable and
proper grounding

Wires properly stapled

HVAC Rough 6-24-2010

Duct ~~sizing~~ sized correctly per engineered drawing
Joints mastic and insulated correctly

Insulation - 6-29-2010

Roof Installed

Dry In complete

Baffles for blown insulation in + measuring sticks

Wall insulation installed per plans + Energy codes

Fire blocking installed per code

All corrections were made from framing

Inspection

HART 2 HART ACADEMY PHASE II

A SITE PLAN FOR:

DALLAS HART

HART 2 HART ACADEMY INC.

747 SW SATELLITE LN

LAKE CITY, FL 32024

PHONE: 386.365.2935

CES

Crews Engineering Services, LLC

P.O. BOX 970

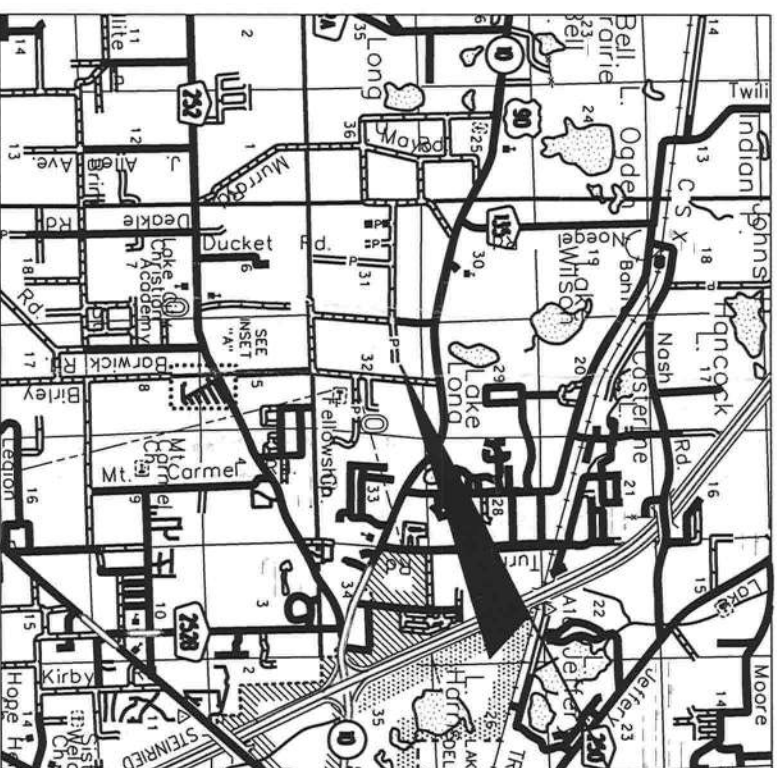
LAKE CITY, FL 32056

PHONE: 386.754.4085

www.crewsengineering.com

CERTIFICATE OF AUTHORIZATION: NO. 28022

BRETT A. CREWS, P.E. 65592



PROJECT LOCATION

INDEX OF SHEETS

- 1 EXISTING CONDITIONS
- 2 SITE PLAN

LOCATION MAP

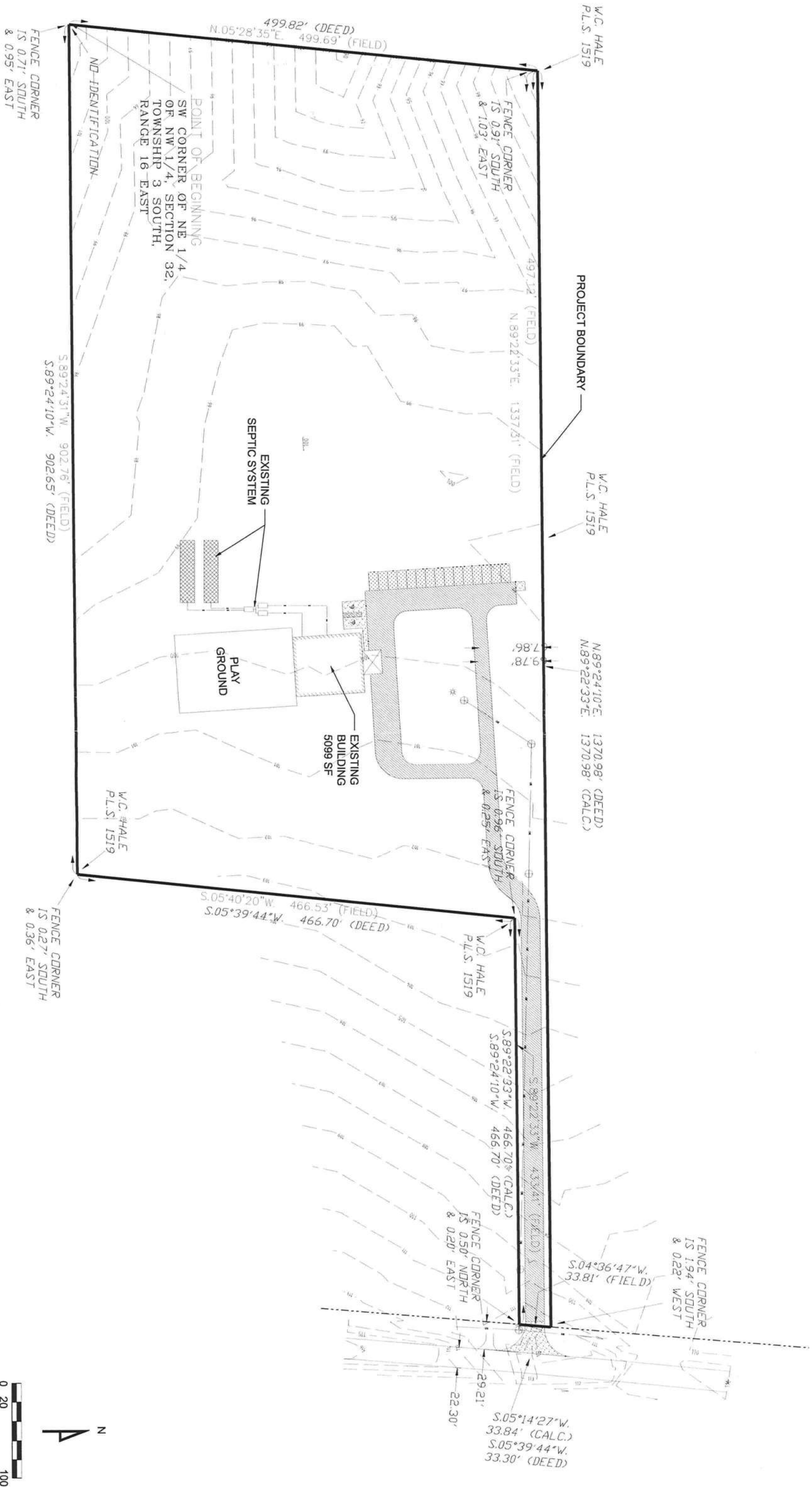
SECTION 32, TOWNSHIP 3 SOUTH, RANGE 16 EAST

COLUMBIA COUNTY, FLORIDA

PARCEL ID: 32-3S-16-02428-004

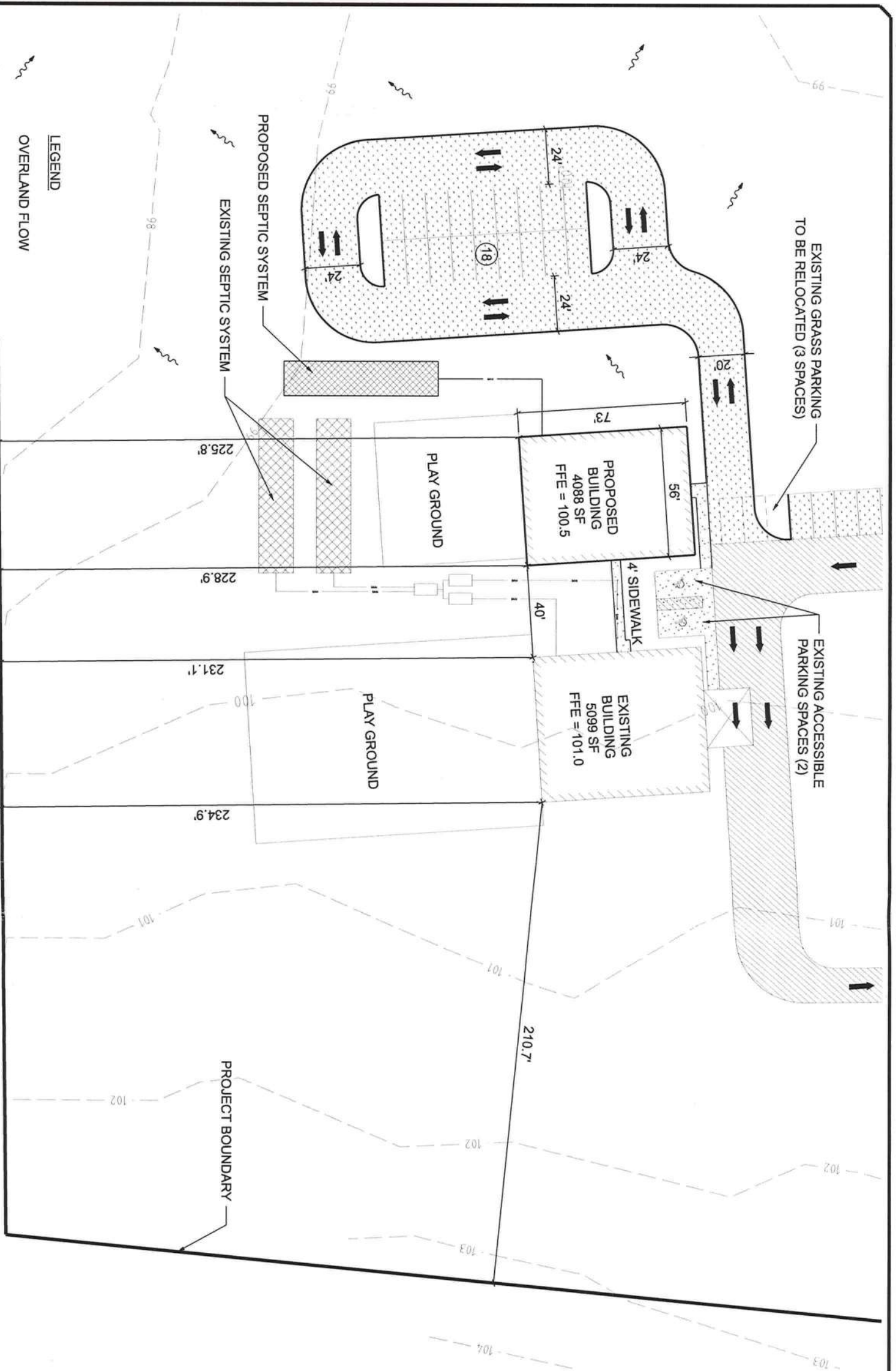
CES PROJECT ID:
2010-002

Seth A. Crews
1-19-2010



N

REVISIONS		DATE		DESCRIPTION	
DATE	BY	DATE	BY	DESCRIPTION	
<div><div><div>CES</div><div>Crews Engineering Services, LLC</div></div><div><div>CERTIFICATE OF AUTHORIZATION</div><div>NO. 28022</div><div>P.O. BOX 970</div><div>LAKE CITY, FL 32056</div><div>PHONE: 386.754.4085</div></div></div>					
<div><div><div><div><div>1-19-2010</div></div><div>Brett A. Crews, P.E. 65592</div></div><div><div>DRAWN BY:</div><div>BC</div></div><div><div>APPROVED BY:</div><div>BC</div></div></div><div><div><div>HART 2 HART ACADEMY</div><div>PHASE II</div></div><div><div>EXISTING CONDITIONS</div></div></div><div><div>CES PROJECT NO.:</div><div>2010-002</div></div><div><div>SHEET:</div><div>1</div></div></div>					



GENERAL PROJECT INFORMATION

FUTURE LAND USE: AGRICULTURE
ZONING: AGRICULTURE-3

DEVELOPMENT DATA

TOTAL SITE AREA = 466,528 SF = 10.71 ACRES

EXISTING CONDITIONS

BUILDING AREA = 5,099 SF
CONCRETE PAVEMENT AREA = 945 SF

PROPOSED CONDITIONS

BUILDING AREA = 9,187 SF
CONCRETE PAVEMENT AREA = 367 SF
TOTAL IMPERVIOUS AREA = 10,499 SF (2.3% SITE AREA)

FAR = 9,187 SF / 466,528 SF = 0.02

MINIMUM BUILDING/YARD SETBACKS PER LDR

FRONT YARD = 30'
REAR YARD = 25'
SIDE YARD = 25'

PARKING CALCULATIONS

CHILD CARE CENTERS:
1 SPACE PER 300 SF DEVOTED TO CHILD CARE ACTIVITIES
REQUIRED PARKING = 4,088 SF / 300 = 14 SPACES

AVAILABLE PARKING = 15 SPACES (ADDITIONAL)

ACCESSIBLE PARKING :
2 PER 50 REQUIRED SPACES = 2 SPACES (TOTAL FOR SITE)

BOUNDARY AND TOPOGRAPHICAL SURVEY

THE BOUNDARY AND TOPOGRAPHICAL SURVEY INFORMATION SHOWN IN THESE PLANS IS BASED ON A SURVEY BY BRITT SURVEYING AND ASSOCIATES INC., LB 7593, DATED 11-11-08 AND AS BUILT FIELD MEASUREMENTS OF PHASE I CONSTRUCTION

UTILITIES

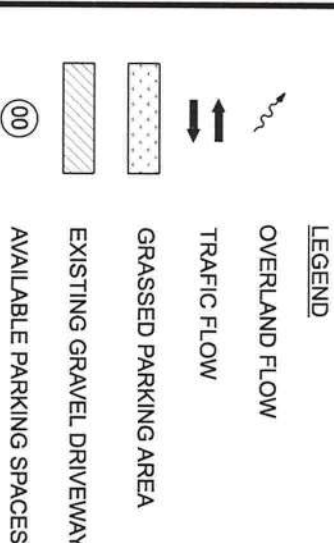
WATER SERVICE: TO BE PROVIDED BY CONNECTION TO EXISTING CITY OF LAKE CITY SERVICE ON SITE

WASTEWATER SERVICE: TO BE PROVIDED BY ON-SITE SEPTIC SYSTEM

ELECTRIC SERVICE: PROVIDED BY CONNECTION TO EXISTING SERVICE ON SITE

DRAINAGE

THE PROPOSED STORMWATER MANAGEMENT FACILITY IS DESIGNED TO MEET SRWMD RULES AND REGULATIONS



REVISIONS		
DATE	BY	DESCRIPTION

CES
Crews Engineering Services, LLC

CERTIFICATE OF AUTHORIZATION
NO. 28022
P.O. BOX 970
LAKE CITY, FL 32056
PHONE: 386.754.4085


1-19-2010
Brett A. Crews, P.E. 65592

DRAWN BY:	BC	HART 2 HART ACADEMY PHASE II	CES PROJECT NO.: 2010-002
APPROVED BY:	BC	SITE PLAN	SHEET: 2