#### Department of Business and Professional Regulation FLORIDA BUILDING COMMISSION 1940 North Monroe Street Tallahassee, Florida 32399-0772 Form FBC 2012-01 Request for Waiver

#### NOTICE TO WAIVER APPLICANTS

Please make certain you comply with the following:

- The person submitting the waiver request application as the Applicant MUST sign the application. Should you fail to do so, your application will be returned.
- If a licensed design professional (architect or engineer) has designed the project, his or her comments MUST be included as a part of this application.
- Be as explicit as possible. The more information provided to the Florida Building Commission, the more informed its decisions can be. If you are claiming financial hardship, please specify why and to what degree. Two estimates substantiating a claim for disproportionate cost must be included.
- Petitioners are strongly advised to participate in the Council's conference call, webinar or onsite meeting for application review. Sometimes pertinent facts are inadvertently omitted, or information provided/presented in the Request for Waiver application is not clear. Your participation in the meetings to answer questions will enhance the possibility of the waiver being approved, since the Council and the Commission will receive the most complete information from you. When we receive the completed application, we will send you a notice of the time, date, and place for both the Council and the Commission meetings.

Enclosed is a List of Required Information and the Request for Waiver application.

If you have any questions or would like additional information, please call the Codes and Standards Section at (850) 487-1824.

Please mail this application to the Department of Business and Professional Regulation at the address above. Include a copy of the application, photos where appropriate and drawings or plans on a CD in PDF format. NOTE: Please do not send files in CAD format

#### but rather provide the files in pdf format.

This application is available in alternate formats upon request.  LIST OF REQUIRED INFORMATION:
1 Drawings that will clearly present your project and that identify the issue(s) that relate to the waiver you are requesting. As a minimum, the following drawings must be submitted:
a. Project site plan if pertinent to the application
b. 24" x 36" minimum size drawings
Building/project sections (if necessary to assist in understanding the waiver request)
d. Enlarged floor plan(s) of the area in question
2 When substantial financial cost of compliance is alleged, supporting cost estimates with quotes from at least two vendors or contractors and catalog information.
If you feel photographs and/or renderings are necessary for your presentation, provide legible color copies of the photographs and/or renderings on the CD with the application and plans in jpeg, tif or pdf format.
4 Please submit one hard copy of this application and attachments to the Florida Building Commission, Department of Business and Professional Regulation.
General Information:

a. Verbal Descriptions: Presentations may be to sight or hearing impaired persons; visual presentations should consider adequate verbal and text descriptions of charts and pictures.

Your application will be reviewed by the Accessibility Advisory Council. You will have the opportunity to answer questions and/or make a short presentation not to exceed 15 minutes. The Council will provide recommendations to the Florida Building Commission. The Commission will review the application- where you will have another opportunity to answer questions and /or give a short presentation not to exceed 15 minutes. The Commission will consider all information and the Council's recommendation before voting on the waiver.

This application is available in alternate formats upon request.

## REQUEST FOR WAIVER FROM ACCESSIBILITY REQUIREMENTS OF CHAPTER 553, PART II, FLORIDA STATUTES

Your application will be reviewed by the Accessibility Advisory Council and its recommendations will be presented to the Florida Building Commission. You will have the opportunity to answer questions and/or make a short presentation, not to exceed 15 minutes, at each meeting. The Commission will consider all information presented and the Council's recommendation before voting on the waiver request.

1. Name and address of project for which the waiver is requested.	
Name: Alpha Gamma Delta - Porch Enclosure	
Address: 517 West Park Ave., Tallahassee, FL 32301	
2. Name of Applicant. If other than the owner, please indicate relat owner and written authorization by owner in space provided:	ionship of applicant to
Applicant's Name: Douglas Barkley	
Applicant's Address: 3494 Martin Hurst Rd. Tallahassee, FL	
<b>Applicant's Telephone</b> : 850-297-0440 <b>FAX</b> : 850-297-0697	<del></del>
Applicant's E-mail Address: douglas.barkley@bcei.us	
Relationship to Owner: Engineer	
Owner's/Tenant's Name: Alpha Gamma Delta Sorority	
Owner's Address: 517 West Park., Tallahassee, FL 32301	
Owner's Telephone: 850-508-9530 FAX_	
Owner's E-mail Address: suzyseminole@yahoo.com	
Signature of Owner:	<u>-</u> 
3. Please check one of the following:	
[] New construction.	
FBC 2012-01 Request for Waiver	Rule 61G20-4.001 effective 4/25/2013

[x] Addition to a building or facility.
[] Alteration to an existing building or facility.
[] Historical preservation (addition).
[] Historical preservation (alteration).
4. <b>Type of facility.</b> Please describe the building (square footage, number of floors). Define the use of the building (i.e., restaurant, office, retail, recreation, hotel/motel, etc.)
This facility is used as sorority house with 37 beds. The house is 2 stories plus a basement and
usable attic space with totals to 12,280 gsf.
5. Project Construction Cost (Provide cost for new construction, the addition, or the alteration):  Alteration Construction Cost: \$95,000
6. <b>Project Status:</b> Please check the phase of construction that best describes your project at the time of this application. Describe status.
[] Under Design [x] Under Construction*
[ ] In Plan Review [ ] Completed*
* Briefly explain why the request has now been referred to the Commission.
During our plans review with the city, we were told to provide accessibility between
all levels or seek and obtain waiver for this requirement.
·

7. **Requirements requested to be waived.** Please reference the applicable section of Florida law. Only Florida-specific accessibility requirements may be waived.

#### Issue

9. Provide documented cost estimates for each portion of the waiver request and identify any additional supporting data which may affect the cost estimates. For example, for vertical accessibility, the lowest documented cost of an elevator, ramp, lift or other method of providing vertical accessibility should be provided, documented by quotations or bids from at least two vendors or contractors.
a. See attached letter.
b
c
10. Licensed Design Professional: Where a licensed design has designed the project, his or her comments MUST be included and certified by signature and affixing of his or her professional seal. The comments must include the reason(s) why the waiver is necessary.  Security of Mo. 19090  Douglas Barkley, P.E.  Printed Name  Phone pulsors 856 294 1440

(SEAL)

#### **CERTIFICATION OF APPLICANT:**

I hereby declare that the applicable documents in support of this Request for Waiver are attached for review by the Florida Building Commission and that all statements made in this application are to the best of my knowledge true and correct.

Dated this 29 day of May

Signature

Printed Name

I understand that if I falsify, misrepresent, or omit any material information on this document, the Commission may revoke any order and will notify the building official of the permitting jurisdiction.

KNOWINGLY MAKING A FALSE STATEMENT IN WRITING WITH THE INTENT TO MISLEAD A PUBLIC SERVANT IN THE PERFORMANCE OF HIS OFFICIAL DUTY IS A MISDEAMEANOR OF THE SECOND DEGREE PURSUANT TO SECTION 837.06 F.S. AND SECTION 775.083, F.S.



May 23, 2014

Ms. Cindy Granquist ALGA, Inc. 1400 Village Square Blvd. Tallahassee, FL 32312

Re: Alpha Gamma Delta Sorority - 517 West Park Avenue

Accessibility Waiver BCEI # 12-00060

Dear Ms. Granquist,

We have conducted a review of the project drawings for renovation of the above referenced project. The purpose of the review was to determine is vertical accessibility is required based on the scope of this project. We offer the following:

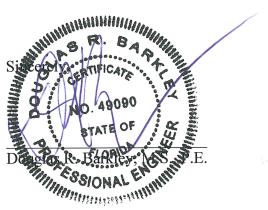
- The structure was initially constructed in 1930 with an addition (creating the upper level dining room) being constructed in 1954. Minor finish renovations have been conducted since, but the primary configuration has been in place since that time.
- The planned renovation includes enclosing a 485 ft<sup>2</sup> porch to serve as additional dining space for sorority members who live outside of the house. A new accessible ramp is also being added to provide accessibility to the first floor which currently does not exist. Approximately \$15,000 of the \$95,000 budget has been dedicated to improving accessibility.
- We are currently planning a major renovation and addition to increase the number of beds from 37 to 56. An elevator to access all three floors has been planned in this addition. Construction will begin on this renovation in 2-3 years.

The estimated cost of adding an elevator is as follows:

Masonry- Shaft	\$15,000
Elevator	\$60,000
Masonry- Brick to match	\$12,000
Demolition	\$4,500
Roofing	\$2,000
Repair of finishes	\$3,500
Total:	\$97,000

Based upon the information provided above, we believe that the minor addition in the drawings provided qualifies for a vertical accessibility waiver.

If you have any questions or concerns regarding the information we have provided you with, please do not hesitate to contact us.



### **Project Totals Report**

Between the Contractor:

Barton Construction, Inc.

857 East Park Ave.

Tallahassee, Florida 32301

CGC061174 8506684265

And the Client:

Alga Incorporated

For the Project:

Alpha Gamma Delta 517 West Park Ave.

Tallahassee, Florida 32301

#### 01 00 00 - GENERAL REQ.

01 00 00 - General Requirements	\$6,823.00
01 52 19 - Sanitary Facilities	\$240.00
01 56 00 - Temporary Barriers and Enclosures	\$350.00
01 74 00 - Cleaning and Waste Management	\$2,032.00
01 76 00 - Protecting Installed Construction	\$350.00
SUBTOTAL 01 00 00 - GENERAL REQ.	\$9,795.00
04 00 00 - MASONRY	
04 00 00 - Masonry	\$350.00
04 21 13 - Brick Masonry	\$1,560.00
SUBTOTAL 04 00 00 - MASONRY	\$1,910.00
05 00 00 - METALS	
05 52 13 - Pipe and Tube Railings	\$5,281.00
SUBTOTAL 05 00 00 - METALS	\$5,281.00

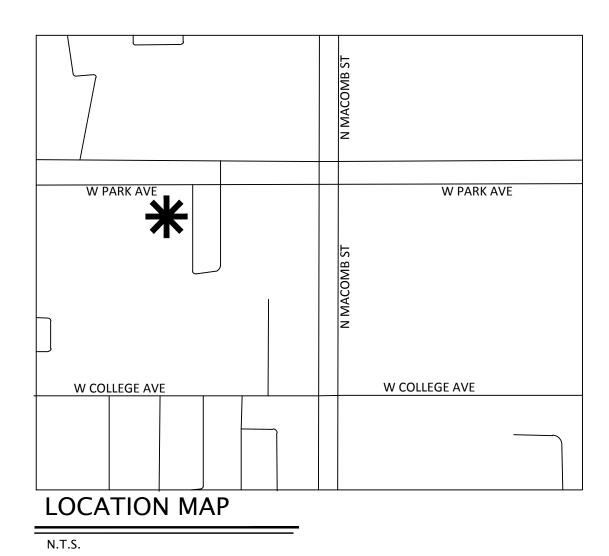
06 00 00 - WOOD,	PLASTICS,	COMP
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06 10 00 - Rough Carpentry	\$4,140.00
06 11 00 - Wood Framing	\$1,466.50
06 16 00 - Sheathing	\$212.00
06 16 23 - Subflooring	\$542.00
06 20 00 - Finish Carpentry	\$1,893.00
06 40 00 - Architectural Woodwork	\$422.00
SUBTOTAL 06 00 00 - WOOD, PLASTICS, COMP	\$8,675.50
07 00 00 - THERMAL PROTECTION	
07 20 00 - Thermal Protection	\$1,441.60
07 50 00 - Membrane Roofing	\$12,354.00
SUBTOTAL 07 00 00 - THERMAL PROTECTION	\$13,795.60
08 00 00 - OPENINGS	
08 11 00 - Exterior Doors	\$1,300.00
08 51 66 - Metal Window Screens	\$650.00
08 75 00 - Window Hardware	\$1,350.00
08 80 00 - Glazing	\$200.00
SUBTOTAL 08 00 00 - OPENINGS	\$3,500.00
09 00 00 - FINISHES	
09 29 00 - Gypsum Wallboard	\$2,625.00
09 60 00 - Flooring	\$4,500.00

09 90 00 - Painting and Coatings	\$3,219.00
SUBTOTAL 09 00 00 - FINISHES	\$10,344.00
23 00 00 - HVAC	
23 00 00 - Heating, Ventilating, and Air Conditioning	\$7,750.00
SUBTOTAL 23 00 00 - HVAC	\$7,750.00
26 00 00 - ELECTRICAL	
26 00 00 - Electrical	\$10,500.00
SUBTOTAL 26 00 00 - ELECTRICAL	\$10,500.00
28 00 00 - SAFETY & SECURITY	
28 00 00 - Electronic Safety and Security	\$350.00
SUBTOTAL 28 00 00 - SAFETY & SECURITY	\$350.00
32 00 00 - EXT IMPROVEMENT	
32 13 13 .10 - Concrete Pads and Walks	\$3,860.00
32 17 23 - Pavement Markings	\$560.00
SUBTOTAL 32 00 00 - EXT IMPROVEMENT	\$4,420.00
COMPANY OVERHEAD & MARGIN	
Company Overhead	\$9,540.14
Company Margin	\$9,540.14
SUBTOTAL COMPANY OVERHEAD & MARGIN	\$19,080.28
Grand Total:	\$95,401.38

# A NEW PROJECT FOR ALPHA GAMMA DELTA

PORCH ENCLOSURE ALGA, INC. TALLAHASSEE, FL



# APRIL 2014 REVISED MAY 2014

DESIGN REQUIREMENTS	
FLORIDA BUILDING CODE, EXISTING BUILDING (FBC-EB)	2010 EDITION
FLORIDA BUILDING CODE, BUILDING (FBC-B)	2010 EDITION
FLORIDA BUILDING CODE, ACCESSIBILITY (FBC-A)	2010 EDITION
FLORIDA BUILDING CODE, MECHANICAL (FBC-M)	2010 EDITION
FLORIDA BUILDING CODE, FUEL GAS (FBC-FG)	2010 EDITION
FLORIDA BUILDING CODE, PLUMBING (FBC-P)	2010 EDITION
FLORIDA FIRE PREVENTION CODE (FFPC)	2010 EDITION
NATIONAL FLECTRIC CODE (NEC)	2008 EDITION

## SCOPE OF WORK

THESE PLANS ARE FOR ENCLOSURE OF AN EXISTING PORCH AT ALPHA GAMMA DELTA SORORITY HOUSE. THE SCOPE OF THIS PROJECT IS RETROFIT THE EXISTING ROOF OVER THE PORCH, ADD A WALL TO THE END OF THE PORCH, RAISE THE FLOOR LEVEL TO MATCH THE EXISTING FINISHED FLOOR, AND ADD AN ACCESSIBLE ROUTE OUT TO A NEW HANDICAP PARKING SPACE.

## **NOTES**

1. OCCUPANCY CLASS: RESIDENTIAL - GROUP R-2

2. CONSTRUCTION TYPE: TYPE V-B UNSPRINKLED

3. SQUARE FOOTAGE: EXISTING 1ST FLOOR -CLOSED PORCH/1ST FLOOR -**EXISTING 2ND FLOOR** -1,550 SF **EXISTING 3RD FLOOR -**TOTAL -16,185 SF

3. OCCUPANT LOAD:

EXISTING 1ST FLOOR -148 PEOPLE CLOSED PORCH/1ST FLOOR 31 PEOPLE 31 BEDS **EXISTING 2ND FLOOR -EXISTING 3RD FLOOR -**6 BEDS TOTAL -216 PEOPLE

4,530 SF

4,430 SF

485 SF

4. MAX ALLOWED DISTANCE TO EXIT = 200 FT. ACTUAL MAXIMUM TRAVEL DISTANCE= 44'-10"

#### 5. MAXIMUM ALLOWED DEAD END CORRIDOR PER FBC-B TABLE 1004 = 20 FT. ACTUAL DEAD END CORRIDOR = 0 FT.

6. FLAME SPREAD OF FINISHES VERTICAL EXIT AND PASSAGEWAYS- CLASS A EXIT ACCESS CORRIDORS AND OTHER EXITWAYS- CLASS A OR B ROOMS AND ENCLOSED SPACES- CLASS A, B, OR C

7. ELEVATION OF THE FLOOR SURFACE ON BOTH SIDES OF A DOOR SHALL NOT VARY BY MORE THAN 1/2" FOR A DISTANCE NOT LESS THAN THE WIDEST LEAF.

8. PRODUCT APPROVAL: THE CONTRACTOR SHALL MAKE AVAILABLE TO THE BUILDING INSPECTOR ANY DOCUMENTATION NECESSARY TO VERIFY THAT ALL PRODUCTS REQUIRING APPROVAL PER FS 553.842 ARE IN COMPLIANCE.

9. NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS PLACED IN A POSITION TO BE PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. ADDRESS NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. NFPA1, 10.12.1.1, 10.12.1.2 & 10.12.1.2.1, FLORIDA 2010 EDITION. EXISTING ADDRESS NUMBERING IS LOCATED ON SIGN OUT FRONT AND FRONT OF BUILDING CONTRACTOR SHALL VERIFY COMPLIANCE AND PROVIDE 6" HIGH ADDRESS NUMBERS IF NOT PRESENT.

10.IF MODIFICATIONS ARE NECESSARY A SEPARATE PERMIT SHALL BE REQUIRED FOR THE FIRE ALARM SYSTEM AND FIRE SPRINKLER. NFPA 1, 1.12.1 & 1.14.2,

# INDEX OF SHEETS

**COVER SHEET** CS-1 EXISTING/DEMO PLAN A-1.2 NEW PLAN & ENLARGED PLANS A-1.3 OCCUPANCY CALCULATIONS A-2.1 ELÉVATIONS A-2.2 **SECTIONS & DETAILS** 

S-1.1 **GENERAL NOTES** 

S-1.2 FRAMING PLAN & FOUNDATION DETAILS S-2.1 WALL SECTIONS & DETAILS

FLORIDA 2010 EDITION. MECHANICAL PLAN M-1

> E-1.1ELECTRICAL PLAN

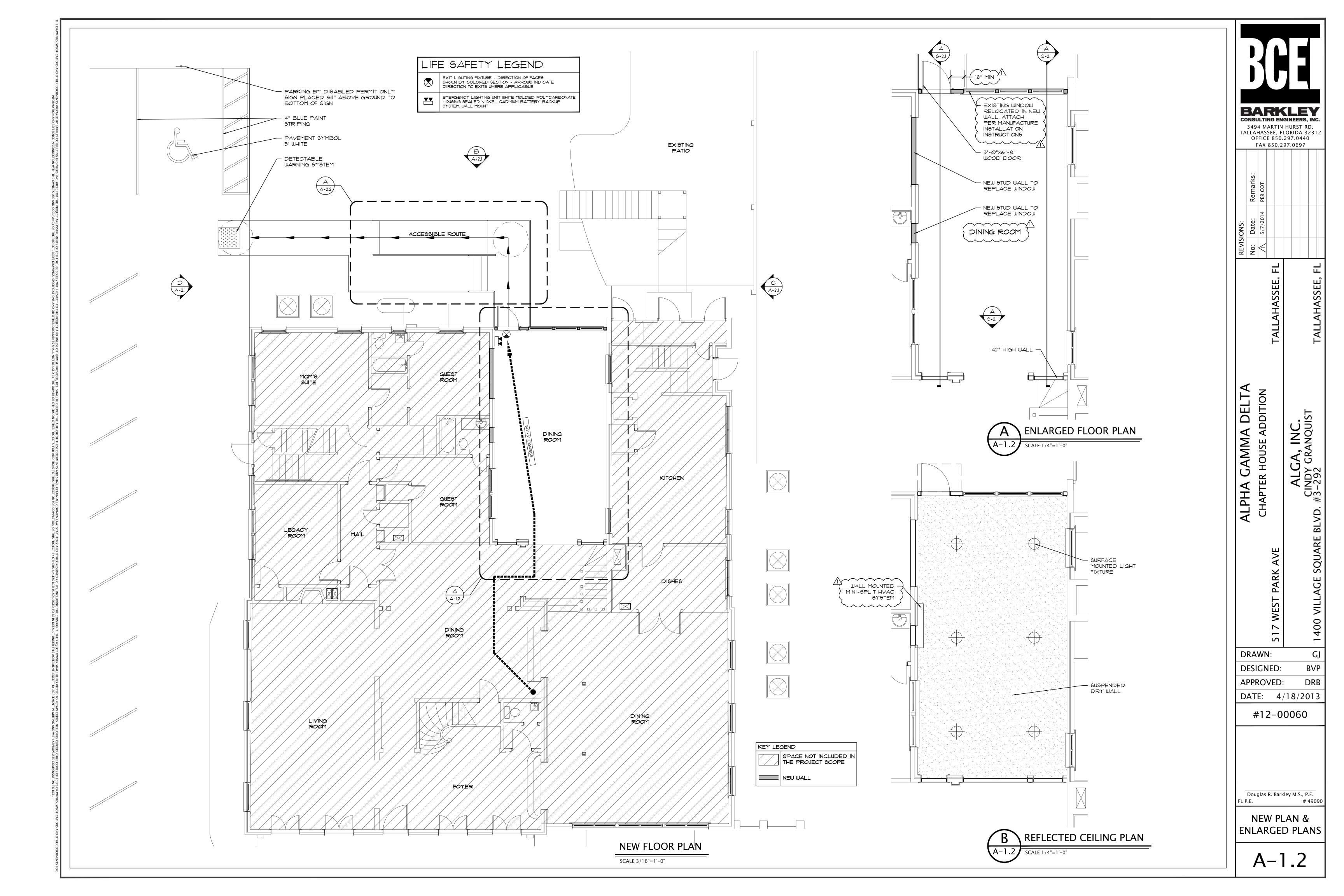
## CONTRACTOR

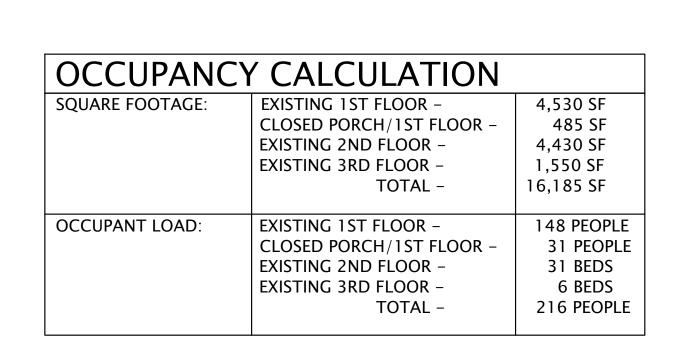
Douglas R. Barkley M.S., P.E. # 49090

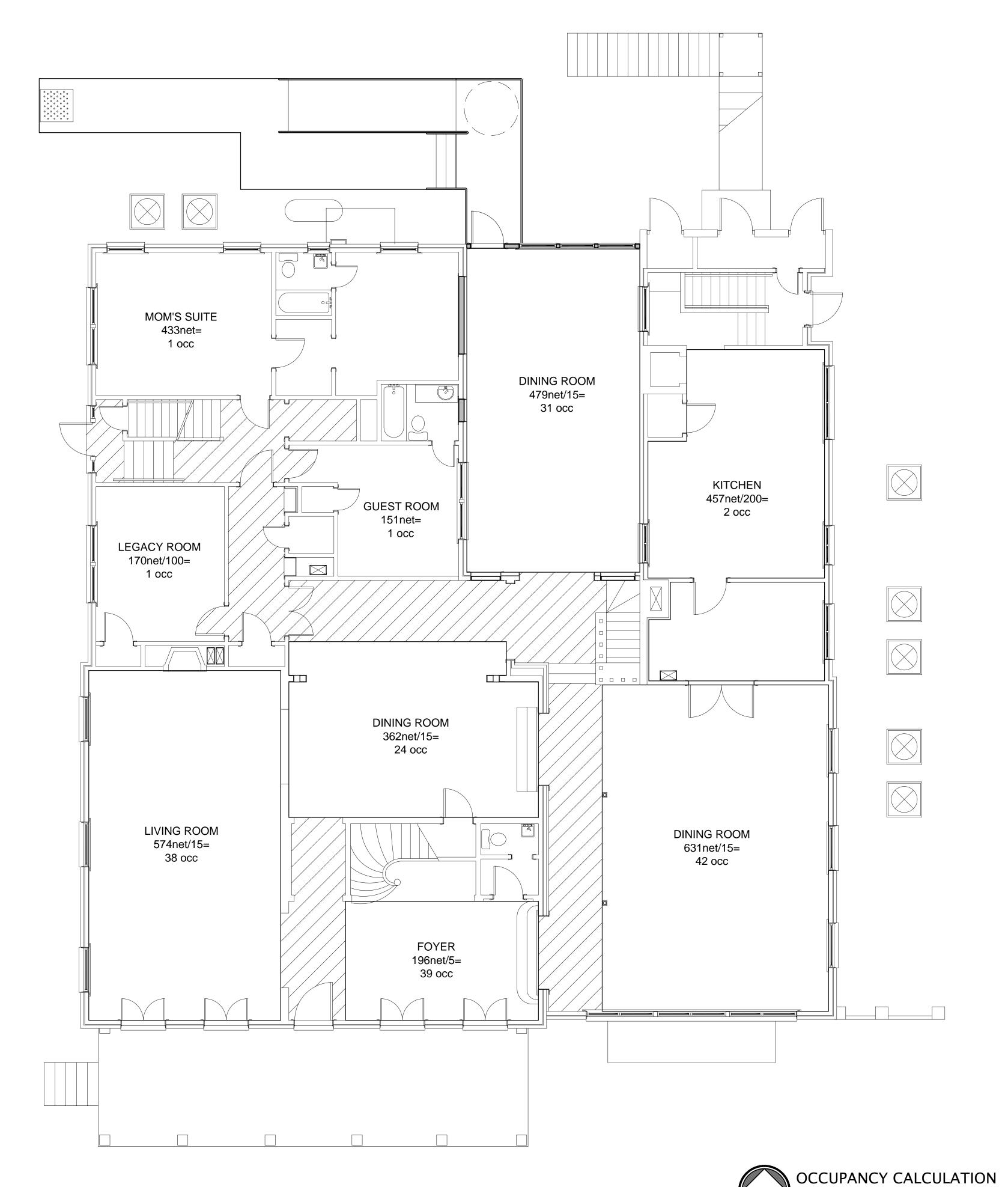
7 0 7  $\infty$  $\mathbf{\Omega}$ FL SQU, ALGA, INC. TALLAHASS 1400 VILLA

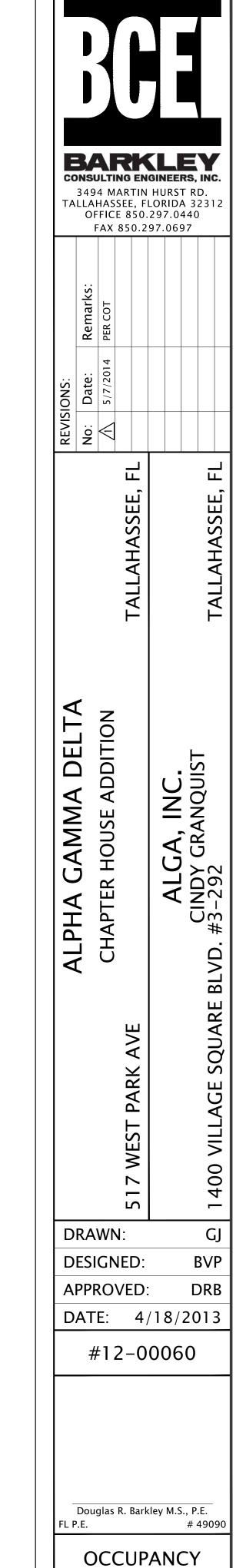
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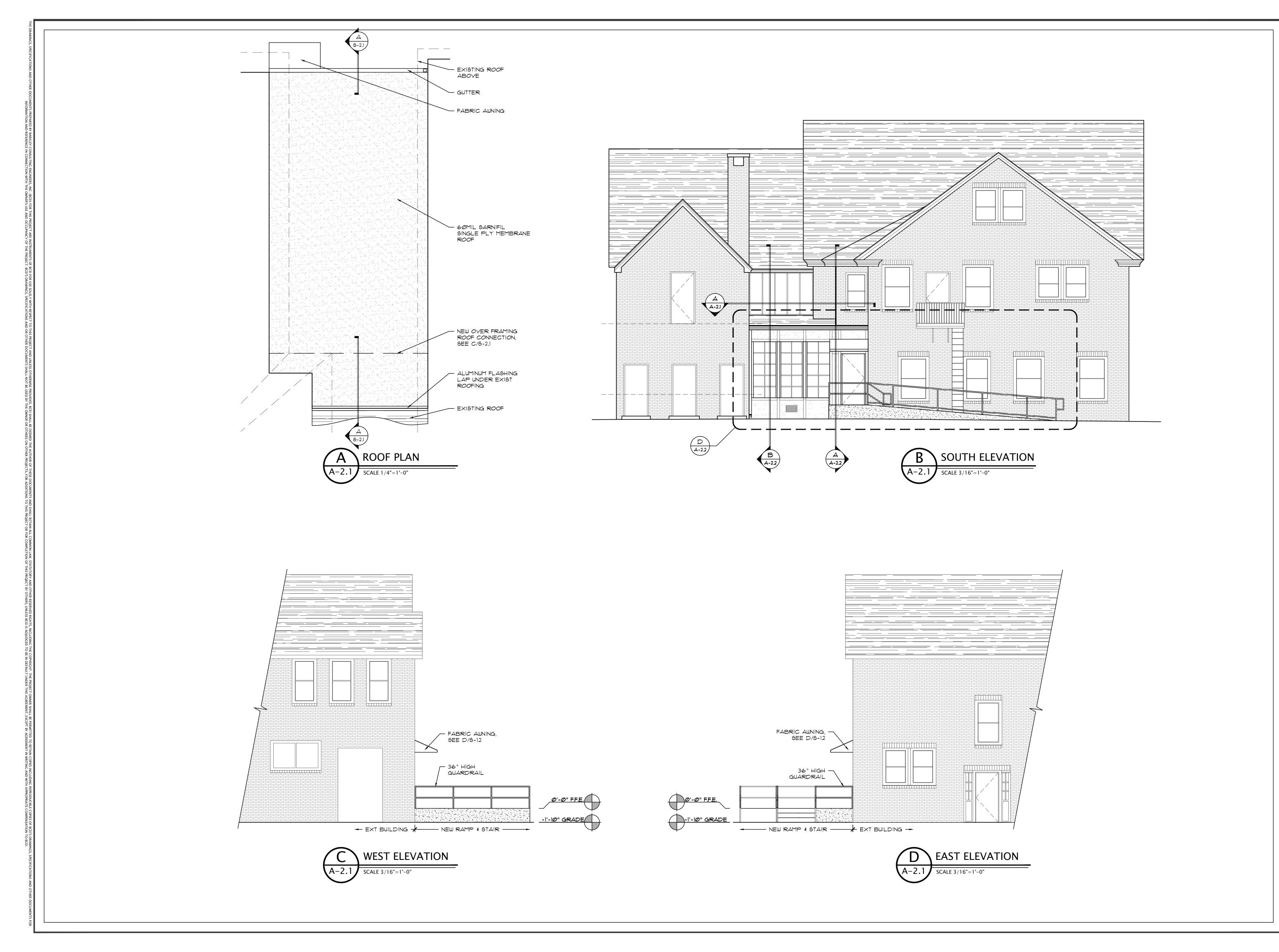






**CALCULATIONS** 

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BARKLEY
CONSULTING ENGINEERS, INC. 3494 MARTIN HURST RD. TALLAHASSEE, FLORIDA 32312 OFFICE 850.297.0440 FAX 850.297.0697 ALPHA GAMMA DELTA CHAPTER HOUSE ADDITION

: S17 WEST PARK AVI

DESIGNED: BVP

APPROVED: DRB

DATE: 4/18/2013

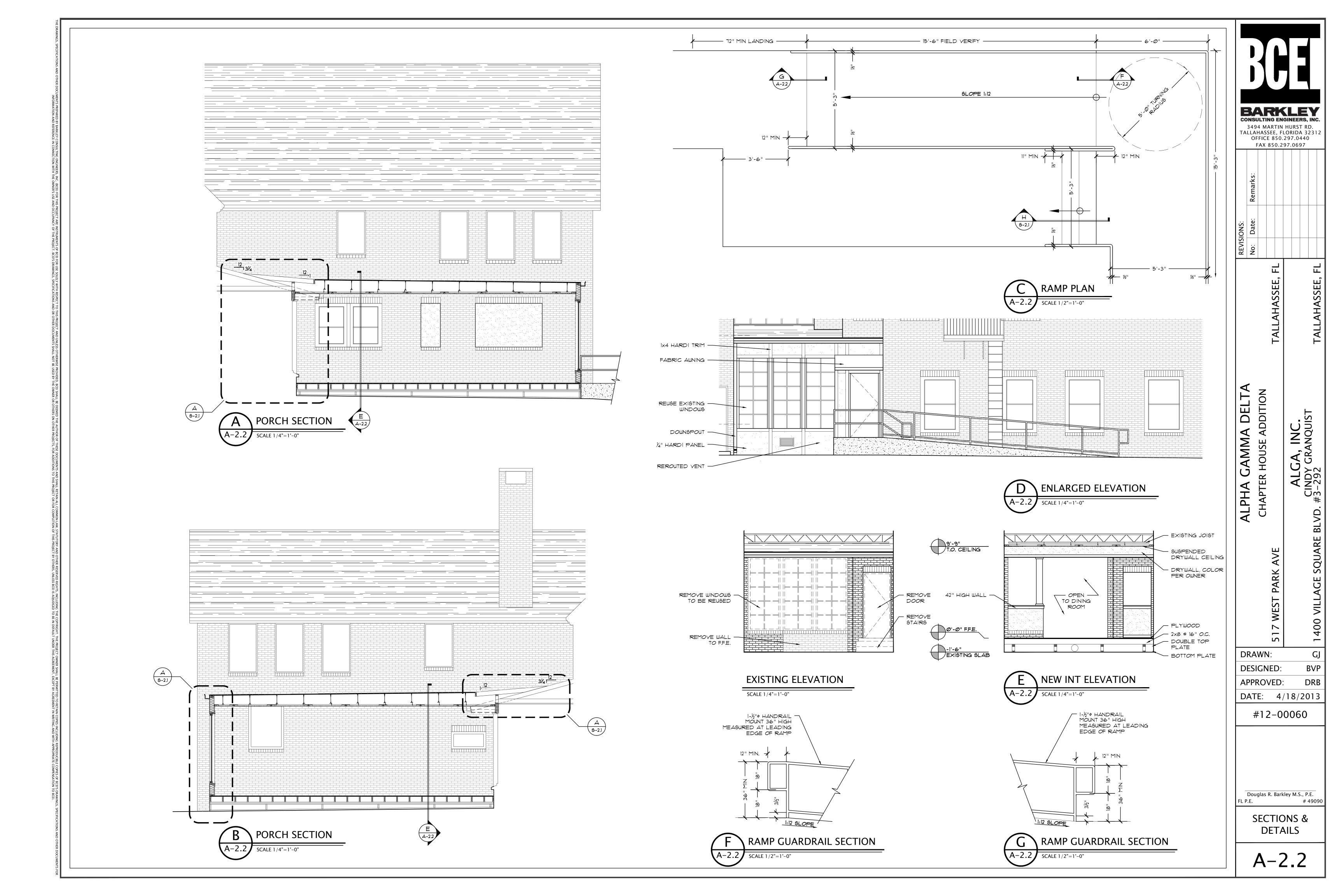
DATE: 4/18/2013

#12-00060

Douglas R. Barkley M.S., P.E.

ELEVATIONS & ROOF PLAN

A - 2.1



#### 

ABBR	<u>EVIATIONS</u>		
	AIR CONDITIONER		HEADER
	ANCHOR BOLT		HORIZONTAL
	ADJACENT	HT	HEIGHT
	ABOVE FINISHED FLOOR		HEATING , VENTILATION & A/C
	AGGREGATE	IN INGUI	INCH
ALT	ALTERNATE	INSUL	INSULATION
ALUM	ALUMINUM	INT	INTERIOR
	ACCESS OPENING	JT K	JOINT
APCU	APPROXIMATE ARCHITECTURAL	KSI	KIPS KIPS PER SQUARE INCH
	ASPHALT	KSF	
	BOTTOM		ANGLE
	BUILDING		LAMINATED
BLKG	BLOCKING	LBS	POUNDS
BM	BENCH MARK		LIVE LOAD
BO	BOTTOM OF	LLBB	LONG LEG BACK TO BACK
BRG	BEARING	LLH	LONG LEG HORIZONTAL
C	CHANNEL	LLY	LONG LEG VERTICAL
CANT	CANTILEVER	LWC	LIGHT WEIGHT CONCRETE
CIP	CAST IN PLACE CONSTRUCTION JOINT	MAX	MAXIMUM
CJ	CONSTRUCTION JOINT	MBR	MEMBER
CL, ⊈	CENTER LINE	MECH	MECHANICAL
CMU	CONCRETE MASONRY UNIT	MFGR	MANUFACTURER
$\sim$	COLUMN	MIN	MINIMUM
CONC	CONCRETE	MISC	MISCELLANEOUS
CONN	CONNECTION	ML	MATCH LINE
	CONSTRUCTION	MO	MASONRY OPENING
	CONTINUOUS	MTL	METAL
	COLD ROLLED	N/A NIC	NOT APPLICABLE NOT IN CONTRACT
CTR DBL	COURTER	NOM	NOMINAL
	DEGREES	NS	NON SHRINK
DET,	DETAIL	NTS	NOT TO SCALE
DIA	DIAMETER	OC	ON CENTER
DIM	DIMENSION	PCF	POUNDS PER CUBIC FOOT
	DEAD LOAD	PL, Æ	
DTL	DETAIL	<del>P</del> LF	POUNDS PER LINEAR FOOT
DWG	DRAWING	PREFAB	PREFABRICATED
DWL	DOWEL	PRELIM	PRELIMINARY
EA	EACH	PSF	POUNDS PER SQUARE FOOT
EJ_	EXPANSION JOINT	PSI	POUNDS PER SQUARE INCH
	ELEVATION	PT	PRESSURE TREATED
	ELECTRICAL	RAD	RADIUS
ENCL	EMBEDMENT ENGLOSED	REF REINF	REFERENCE REINFORCED
ENGR	ENCLOSED ENGINEER	REQ	REQUIRED
EQ	EQUAL	SCHED	SCHEDULE
EST	ESTIMATED	SECT	SECTION
EW	EACH WAY	SF	SQUARE FOOT
	EXISTING	SIM	SIMILAR
EXT	EXTERIOR	SJI	STEEL JOIST INSTITUTE
FAB	FABRICATE	SLBB	SHORT LEG BACK TO BACK
FBC	FLORIDA BUILDING CODE	SPEC	
FD	FLOOR DRAIN	SQ	SQUARE
FDN	FOUNDATION	STD	STANDARD
FF.	FINISHED FLOOR	STL	STEEL
FFE	FINISHED FLOOR ELEVATION	SYM	SYMMETRICAL
FG	FINISHED GRADE	T	TOP
FIN	FINISH	T&B TEMP	TOP & BOTTOM TEMPERED
FL FT	FLOOR FEET	TOC	TOP OF CONCRETE
FTG	FOOTING	TOM	TOP OF MASONRY
GA	GAUGE	TOS	TOP OF STEEL
GALY	GALVANIZED	UNF	UNFINISHED
GC	GENERAL CONTRACTOR	UON	UNLESS OTHERWISE NOTED
GEN	GENERAL	VERT	VERTICAL
GND	GROUND	W/	WITH
GYP	GYPSUM	W/O	WITH OUT
HC	HOLLOW CORE	WW⊨	WELDED WIRE FABRIC

#### WIND LOAD DESIGN CRITERIA

AND FLOOD ZONE INFORMATION	
GOVERNING CODE	45CE 7-10
BUILDING TYPEEI	NCLOSED
RISK CATEGORY	
EXPOSURE CATEGORY	C
JLTIMATE WIND SPEED V =	120 MPH
NOMINAL WIND SPEED	=93 MPH
MEAN ROOF HEIGHT	27'-Ø"
<z kd<="" kzt="" td=""><td>00 / 0.85</td></z>	00 / 0.85
VELOCITY PRESSURE AT 30'-0"	21.30 PSF
FEMA FLOOD ZONE	A, ×
BASE FLOOD ELEVATION	NA

NTERIOR ZONE (1)	)			(WALLS)			
TRIB AREA	PRESSURE		OVERHANG	INTERIOR ZONE (4)			
10.65	145	1 22.00	PRESS	TRIB. AREA	WIND PRESSURES		
10 S.F.	14.5	-23.0	-	10 S.F.	25.1	27.2	
2Ø S.F.	13.2	-22.4	=		25.1	-27.3	
50 S.F.	11.5	-21.5	-	2Ø S.F.	24.Ø	-26.1	
100 S.F.	10.2	-20.9	=	50 S.F.	22.5	-24.6	
DGE ZONE (2)		•	,	100 S.F.	21.4	-23.5	
TRIB AREA PRESSURE OVERH		OVERHANG	EDGE ZONE (5)				
INID AREA			PRESS	10 S.F.	25.1	-33 <i>.</i> 7	
10 S.F.	14.5	-40.0	-46.9	2Ø S.F.	24.00	-31.4	
2Ø S.F.	13.2	-36.8	-46.9	50 S.F.	22.5	-28.4	
50 S.F.	11.5	-32.6	-46.9	100 S.F.	21.4	-26.1	
100 S.F.	10.2	-29.4	-46.9	EDGE ZONE (	a) - A'-A"		
ORNER ZONE (3.	)		•	LDGL ZONE (	<u>a,                                    </u>		
TRIB AREA	PPE	4411DE	OVERHANG	h			
INID AREA	PRESSURE		PRESS	MAIN WIND FORCE RESISTING			
10 S.F.	14.5	-59.2	-78.8	STRUCTURE	:S		
2Ø S.F.	13.2	-55.4	-11.1	NET DECICAL	WALL PRESSURE	00 = 4	
50 S.F.	11.5	-50.3	-60.9	NEI DESIGN	WALL PRESSURE	23.54	
100 S.F.	10.2	-46.4	-53.3	NET HORIZO	NTAL PRESSURE	8.08	

NET UPLIFT PRESSURE ON

-14.70

WINDOW AND DOOR REQUIREMENTS					
OPENING (SF) WIND PRESSURES					
Ø-2Ø	15.1	-2Ø.2			
20.01-30	14.4	-18.8			
30.01-40	14.1	-18.2			
40.01-50	13.8	-17.6			

EDGE ZONE (a) =4'-10"

FOR EFFECTIVE AREAS BETWEEN THOSE GIVEN ABOVE THE LOAD MAY BE INTERPOLATED, OTHERWISE USE THE LOAD ASSOCIATED WITH THE LOWER EFFECTIVE AREA. ALL EXTERIOR WINDOWS SHALL BE IMPACT GLASS.

#### DESIGN LOADS

OCCUPANCY-	LIVE LOAD	DEAD LOAD
ROOF	20 PSF	5 PSF
FLOOR	100 PSF	20 PSF
GUARDRAILS & HANDRAILS	200 LBS POI	NT OR 50 PLF
LOADS LISTED ABOVE DO NOT INCLUDE MASONRY WALLS O	OR CONCRETE SLAB	S SELF WEIGHT.

STANDARDS, REGULATIONS AND LAWS.

GENERAL NOTES

- THE GOVERNING CODE FOR THIS PROJECT IS THE FLORIDA BUILDING CODE, 2010 EDITION. THIS CODE PRESCRIBES WHICH EDITION OF EACH REFERENCE STANDARD APPLIES TO THIS PROJECT.
- TO THE BEST OF OUR KNOWLEDGE, THE STRUCTURAL DRAWINGS COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE GOVERNING BUILDING CODE.
- 3. CONSTRUCTION IS TO COMPLY WITH THE REQUIREMENTS OF THE GOVERNING BUILDING CODE AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES,
- 4. THE STRUCTURAL DOCUMENTS ARE TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DOCUMENTS. IF A CONFLICT EXISTS, THE MORE STRINGENT GOVERNS.
- 5. DETAILS LABELED "TYPICAL" APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED, WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. QUESTIONS REGARDING THE APPLICABILITY OF TYPICAL DETAILS SHALL BE RESOLVED BY THE ARCHITECT.
- 6. OPENINGS SHOWN ON STRUCTURAL DRAWINGS ARE ONLY PICTORIAL. SEE THE ARCHITECTURAL AND M.E.P. DRAWINGS FOR THE SIZE AND LOCATION OF OPENINGS IN THE STRUCTURE.
- CONTRACTORS WHO DISCOVER DISCREPANCIES, OMISSIONS OR VARIATIONS IN THE CONTRACT DOCUMENTS DURING BIDDING SHALL IMMEDIATELY NOTIFY THE ARCHITECT. THE ARCHITECT WILL RESOLVE THE CONDITION AND ISSUE A WRITTEN CLARIFICATION.
- 8. THE GENERAL CONTRACTOR SHALL COORDINATE ALL CONTRACT DOCUMENTS WITH FIELD CONDITIONS AND DIMENSIONS AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS, USE ONLY PRINTED DIMENSIONS. ELECTRONIC DRAWINGS SHOULD NOT BE ASSUMED TO BE DRAWN TO SCALE, REPORT ANY DISCREPANCIES IN WRITING TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK, DO NOT CHANGE SIZE OR LOCATION OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTIONS FROM THE STRUCTURAL ENGINEER OF RECORD.
- THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY, HIS OWN WORK AND THE PUBLIC FROM HARM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND JOBSITE SAFETY INCLUDING ALL OSHA REQUIREMENTS.
- 10. THE STRUCTURE IS DESIGNED TO BE STRUCTURALLY SOUND WHEN COMPLETED. PRIOR TO COMPLETION, THE CONTRACTOR IS RESPONSIBLE FOR STABILITY AND TEMPORARY BRACING, INCLUDING, BUT NOT LIMITED TO, MASONRY WALLS. WHEREVER THE CONTRACTOR IS UNSURE OF THESE REQUIREMENTS, THE CONTRACTOR SHALL RETAIN A FLORIDA LICENSED ENGINEER TO DESIGN AND INSPECT THE TEMPORARY BRACING AND STABILITY OF THE STRUCTURE.

#### EXCAYATION, BACKFILL AND DE-WATERING

- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL EXCAYATION PROCEDURES INCLUDING LOGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STRESS AND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT AND OSHA REGULATIONS, DO NOT EXCAYATE WITHIN ONE FOOT OF THE ANGLE OF REPOSE OF ANY SOIL BEARING FOUNDATION UNLESS THE FOUNDATION IS PROPERLY PROTECTED AGAINST SETTLEMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL ACCUMULATED WATER IN A MANNER THAT DOES NOT INCONVENIENCE OR DAMAGE THE WORK.

#### SHALLOW FOUNDATIONS

- FOOTING SIZES AND REINFORCING ARE BASED ON AN ALLOWABLE SOIL BEARING CAPACITY OF 1500 PSF. ALL FOOTINGS SHALL BEAR ON COMPACTED FILL OR NATURAL SOIL PREPARED PER THE GEO-TECHNICAL REPORT.
- 2. CENTER ALL FOOTINGS UNDER THEIR RESPECTIVE COLUMNS OR WALLS, U.O.N.
- 3. TOP OF ALL FOOTINGS IS NOTED ON THE DRAWINGS.

#### <u>SLAB ON GRADE</u>

- REFER TO GEO-TECHNICAL REPORT FOR SUB-GRADE PREPARATION MORE THAN 12" BELOW BOTTOM OF SLAB.
- ABOVE SUB-GRADE, USE FILL CONTAINING NOT MORE THAN 10% PASSING #200 SIEVE AND MAXIMUM I"+. COMPACT TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR ASTM D-1557.
- 3. FILL PLACEMENT AND COMPACTION SHALL BE MONITORED AND ACCEPTED BY THE TESTING AGENCY. TAKE A MINIMUM OF ONE FIELD DENSITY TEST (ASTN D-1556 OR D 2922) FOR EACH 2,500 SQUARE FEET OF EACH LAYER. THE TESTING AGENCY SHALL RANDOMLY SELECT TEST LOCATIONS.
- 4. FOR INTERIOR SLABS PLACE 6 MIL POLYETHYLENE SHEETING BETWEEN SOIL AND BOTTOM OF SLAB, DO NOT USE ANY SHEETING BELOW EXTERIOR CONCRETE SLABS.
- **5.** USE 6" THICK SLABS ON GRADE REINFORCED WITH  $6\times6$  WI.4  $\times$  WI.4 WELDED WIRE REINFORCEMENT SUPPLIED IN FLAT SHEETS ONLY, U.O.N. USE CHAIRS TO SUPPORT WIRE FABRIC IN THE CENTER OF SLAB.
- 6. PROVIDE CRACK CONTROL JOINTS AT 15 FEET MAXIMUM TO LIMIT AREAS BETWEEN JOINTS TO 225 SQ. FT. IN ALL FLOATING SLABS ON GRADE. LOCATE TO CONFORM TO BAY SPACING WHENEVER POSSIBLE, ADD CRACK CONTROL JOINTS AT RE-ENTRANT CORNERS WHICH TEND TO INVITE CRACKS.
- 7. IN SIDEWALKS AND WALKWAYS, LOCATE ISOLATION JOINTS AT 20 FT. O.C. MAXIMUM SCORE AND TOOL BETWEEN ISOLATION JOINTS IN EQUAL BAYS OF 5 FT. OR LESS.
- 8. SEE THE ARCHITECTURAL DRAWINGS FOR SLAB ON GRADE DEPRESSIONS AND OTHER REQUIREMENTS.

#### CHEMICAL ADHESIVE FOR ANCHOR BOLTS, REINFORCING BOLTS & THREADED BARS

- USE AN EPOXY, ACRYLIC OR POLYESTER RESIN ADHESIVE SYSTEM SUCH AS THE POWERS RAWL POWER-FAST SYSTEM, HILTI HIT HY150, ITW RAMSET/RED HEAD EPCON AT OR C6 INJECTION SYSTEM, ALLIED FASTENER ALLIED GOLD A-1000, OR ACCEPTED EQUIVALENT. FOLLOW MANUFACTURER'S SPECIFICATIONS FOR USE AND
- 2. CONFIRM THE ABSENCE OF REINFORCING STEEL BY DRILLING A  $\frac{1}{4}$ " PILOT HOLE FOR EACH ANCHOR, DO NOT CUT REINFORCING STEEL WITHOUT APPROVAL OF THE
- 3. DRILL 16" LARGER + HOLE THAN ANCHOR BOLT AND 16" LARGER HOLE THAN REINFORCING BAR. THOROUGHLY CLEAN HOLE INCLUDING REMOVAL OF DUST PRIOR TO FILLING WITH EPOXY.
- 4. PROVIDE ANCHOR EMBEDMENT, SPACING AND EDGE DISTANCE AS SHOWN ON THE DRAWINGS.
- 5. THREADED RODS ARE A-36 GALVANIZED STEEL, U.O.N.

#### EXPANSION ANCHORS

- USE WEDGE-TYPE EXPANSION ANCHORS SUCH AS THE HILTI KWIK BOLT II, ITW RAMSET RED HEAD TRUBOLT WEDGE, POWERS RAWL POWER-STUD, OR ACCEPTED EQUIVALENT FOLLOW MANUFACTURER'S SPECIFICATIONS FOR USE AND INSTALLATION.
- CONFIRM THE ABSENCE OF REINFORCING STEEL BY DRILLING A 1/4 PILOT HOLE FOR EACH ANCHOR. DO NOT CUT REINFORCING STEEL WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
- PROVIDE ANCHOR EMBEDMENT, SPACING AND EDGE DISTANCE AS SHOWN ON THE DRAWINGS.

#### WOOD FRAMING & SHEATHING

- WOOD CONSTRUCTION SHALL COMPLY WITH AF & PA NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION AND CHAPTER 23 OF FBC.
- 2. MANUFACTURED LUMBER, \$4\$ AND GRADE-STAMPED, TO COMPLY WITH P\$20 AND APPLICABLE GRADING RULES OF INSPECTION AGENCIES CERTIFIED BY ALSC'S BOARD OF REVIEW.
- PROVIDE SEASONED LUMBER WITH 19% MOISTURE CONTENT AT TIME OF DRESSING AND SHIPMENT, FOR SIZES 2" OR LESS IN THICKNESS.
- COMPLY WITH "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD
- 5. ALL STRUCTURAL LUMBER TO BE MIN SOUTHERN YELLOW PINE NO. 2 545, GRADE-STAMPED. ALL OTHER LUMBER PER ARCHITECTURAL SPECIFICATIONS. WOOD FRAME WALLS MAY BE NO. 2 SPRUCE PINE FIR.
- **6.** USE LUMBER WITH MINIMUM FB=1500 PSI FOR 2×4, 1250 PSI FOR 2×6, 1200 PSI FOR 2×8, 1050 FOR 2X10 AND, 975 PSI FOR 2X12 FOR SINGLE/REPETITIVE USE AND A MODULES OF ELASTICITY, "E" OF 1,200.000 PSI (FOR WALLS AND BEAMS). PARALLEL STRAND LUMBER SHALL HAVE MINIMUM FB=2900 PSI, E=2,000,000 PSI & FV=290 PSI,
- 7. AT ALL BUILT-UP WOOD AND BEAM BEARING LOCATIONS A MINIMUM OF (2) 2×4 STUD MEMBERS TO BE USED U.O.N.
- 8. MICROLAM LYL BEAMS USED AS MULTIPLE ASSEMBLY BEAMS TO BE CONNECTED WITH 3 ROWS OF 16D NAILS @ 12" O.C.
- 9. ONE 3½" THICK MICROLAM LYL MAY BE SUBSTITUTED FOR TWO PIECES OF 1¾".
- 10. THE INDIVIDUAL STUDS OF BUILT-UP COLUMNS TO BE ADEQUATELY FASTENED TO DEVELOP COMPOSITE ACTION OF THE ASSEMBLY.
- 11. DO NOT SPLICE STRUCTURAL MEMBERS BETWEEN SUPPORTS, U.O.N.
- USE MANUFACTURERS REQUIRED SIZE AND NUMBER OF NAILS OR BOLTS FOR ANCHOR TIE DOWNS, HURRICANE CLIPS AND ALL CONNECTORS U.O.N.
- 13. SECURELY ATTACH CARPENTRY WORK TO SUBSTRATES AND SUPPORTING MEMBERS USING FASTENERS OF SIZE THAT WILL NOT PENETRATE MEMBERS WHERE THE OPPOSITE SIDE WILL BE EXPOSED TO VIEW OR RECEIVE FINISH MATERIALS.
- 14. GYPSUM WALL SHEATHING AT EXTERIOR WALLS, LOAD BEARING WALLS AND INTERIOR WALLS INTERSECTING WALLS TO BE SECURED TO STUDS WITH DRYWALL NAILS AT 12" O.C. @ EACH STUD.
- 15. PROVIDE CONT. LATERAL BRACING AND/OR BLOCKING BETWEEN CHORDS OF TRUSSES AS REQUIRED OR AS NOTED BY TRUSS MANUFACTURER TO ADEQUATELY TRANSFER LOADS TO SHEAR WALLS.
- 16. CONTRACTOR TO VERIFY THAT HURRICANE CLIPS/TIE DOWNS SHOWN WILL RESIST WIND UPLIFT FROM ROOF TRUSSES. IF UPLIFT VALUE FROM ROOF TRUSS MANUFACTURER EXCEEDS CAPACITY OF THE HURRICANE CLIPS/TIE DOWN, THE CONTRACTOR SHALL PROVIDE A CONNECTOR TO SAFELY RESIST THE UPLIFT LOADS. THE CONTRACTOR CAN SIZE HURRICANE CLIPS BY USING THE TRUSS DRAWINGS IN COMBINATION WITH THE HC/TIE DOWN CHART.
- PLACE FLAT STRAPPING BETWEEN STUDS AT ENDS OF ALL BEAM BEARING LOCATIONS. W/ 1/4"×30"×16 GA FLAT STRAP W/ (24) 100 NAILS TO BE PLACED AT ENDS OF BUILT-UP WOOD BEAMS.
- 18. ANCHOR BOLTS TO BE ½"+XIØ" LONG W/2" SQ. WASHERS SPACED @ 24" O.C. U.ON. FIRST ANCHOR BOLT IS TO BE PLACED MAX 10" FROM EACH CORNER.
- 19. EXTERIOR END WALLS AT VAULTED OR CATHEDRAL CEILING LOCATIONS TO BE BALLOON FRAMED FROM SILL PLATE TO ROOF DIAPHRAGM.
- 20. PROVIDE THREADED ROD TIE-DOWN SYSTEM AT LOCATIONS NOTED ON PLANS.
- 21. AT ENDS OF ALL SHEAR WALLS PLACE MIN. (3) BUILT-UP STUD GROUP, INSTALL SIMPSON HD5A HOLD DOWN ANCHORS AT BUILT-UP STUD GROUP ENDS OF SHEAR
- WALLS TO PROVIDE CONTINUOUS LOAD PATH FROM FRAMING LEVEL TO FOUNDATION. 22. THE ENGINEER SHOULD BE NOTIFIED OF ANY DEVIATIONS FROM THE PLANS OR TRUSS
- SHOP DRAWINGS. 23. PERMANENT TRUSS BOTTOM CHORD LATERAL BRACING, CONSISTING OF 2×4 GRADE
- MARKED LUMBER, NAILED W/ MIN. (2) IGD NAILS PER TRUSS AND LAPPED AT LEAST TWO TRUSSES, SHALL BE SPACED NO GREATER THAN 15'-0".
- 24. PRE-ENGINEERED TRUSS BRACING PER TRUSS MANUFACTURER TO BE A MINIMUM OF 2×4 OF THE SAME SPECIES AS TRUSS. 25. CEILING TO BE A MINIMUM OF 1/2" GYPSUM WITH 5D COOLER NAILS OR GWB-54 1/2" NAILS

INSTALLED AT 10" O.C. AND 7" O.C. ALONG EDGES.

#### REINFORCED CONCRETE

1. COMPLY WITH ACI 301 AND 318.

C. WALLS & SLABS

- PROVIDE STRUCTURAL CONCRETE WITH A MINIMUM ULTIMATE COMPRESSIVE DESIGN STRENGTH IN 28 DAYS OF:
- A. SLAB ON GRADE 3,000 PSI B. FOUNDATION 3,000 PSI
- 3. USE NORMAL WEIGHT CONCRETE FOR ALL STRUCTURAL MEMBERS, U.O.N. PROVIDE ASTM A-615 GRADE 60 REINFORCING STEEL. REINFORCING SHALL BE
- ACCURATELY PLACED, RIGIDLY SUPPORTED AND FIRMLY TIED IN PLACE, WITH APPROPRIATE BAR SUPPORTS AND SPACERS, LAP CONTINUOUS REINFORCING 48 BAR +. LAP BOTTOM STEEL OVER SUPPORTS AND TOP STEEL AT MID-SPAN, U.O.N. HOOK DISCONTINUOUS ENDS OF ALL TOP BARS AND ALL BARS IN WALLS, U.O.N.

5,000 PSI

- 5. PROVIDE COVER OVER REINFORCING AS FOLLOWS:
- A. CAST AGAINST & EXPOSED TO EARTH/WEATHER B. EXPOSED TO EARTH/WEATER #6 THROUGH #18 REBAR
- C. \*5 REBAR, W31/D31 WIRE OR SMALLER D. NOT EXPOSED TO EARTH/WEATHER
- a. SLABS, WALLS, JOISTS
- #14 AND #18 REBAR • #11 REBAR AND SMALLER
- **b.** BEAMS AND COLUMNS REINF, TIES, STIRRUPS, SPIRALS
- 6. WHERE SPECIFIED, PROVIDE PLAIN, COLD-DRAWN ELECTRICALLY-WELDED WIRE REINFORCEMENT CONFIRMING TO ASTM A-185, SUPPLY IN FLAT SHEETS ONLY, LAP SPLICE ONE CROSS WIRE SPACING PLUS TWO INCHES.
- 7. UTILITIES SHALL NOT PENETRATE BEAMS OR COLUMNS BUT MAY PASS THROUGH SLABS AND WALLS INDIVIDUALLY, U.O.N., FOR OPENINGS 24" LONG OR LESS, CUT REINFORCING AND REPLACE A LONG SIDE OPENING WITH SPLICE BARS OF EQUIVALENT AREA WITH 48 BAR & LAP. PREPARE AND SUBMIT SHOP DRAWINGS FOR OPENINGS LONGER THAN 24". FOR RECTANGULAR OPENINGS 12" LONG OR LONGER, ADD (1)  $*5 \times 6$ ' MID DEPTH \*DIAGONAL AT ALL 4 CORNERS.
- WHERE REINFORCING STEEL CONGESTION PERMITS, CONDUIT AND PIPES UP TO 1"4 MAY BE EMBEDDED IN CONCRETE PER ACI 318, SECTION 6.3. SPACE AT 30 O.C.PLACE BETWEEN OUTER LAYERS OF REINFORCING IF CONDUITS ARE SIGNIFICANTLY CONGESTED, ADDITIONAL REINFORCING PERPENDICULAR TO PIPING MAY BE REQUIRED. REQUESTS TO EMBED LARGER PIPES SHOULD BE ACCOMPANIED BY A DETAILED DESCRIPTION AND BE SUBMITTED TO THE ARCHITECT FOR EVALUATION.
- 9. PROVIDE CONSTRUCTION JOINTS IN ACCORDANCE WITH ACI 318, SECTION 6.4. PROVIDE KEYWAYS AND ADEQUATE DOWELS. SUBMIT DRAWINGS SHOWING LOCATION OF CONSTRUCTION JOINTS AND DIRECTION OF POUR FOR REVIEW.
- 10. PROVIDE REINFORCING STEEL PLACER WITH A SET OF STRUCTURAL DRAWINGS FOR FIELD REFERENCE, INSPECT REINFORCING STEEL PLACING FROM STRUCTURAL DRAWINGS.



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DRAWN: DESIGNED:

DATE: 4/18/2013

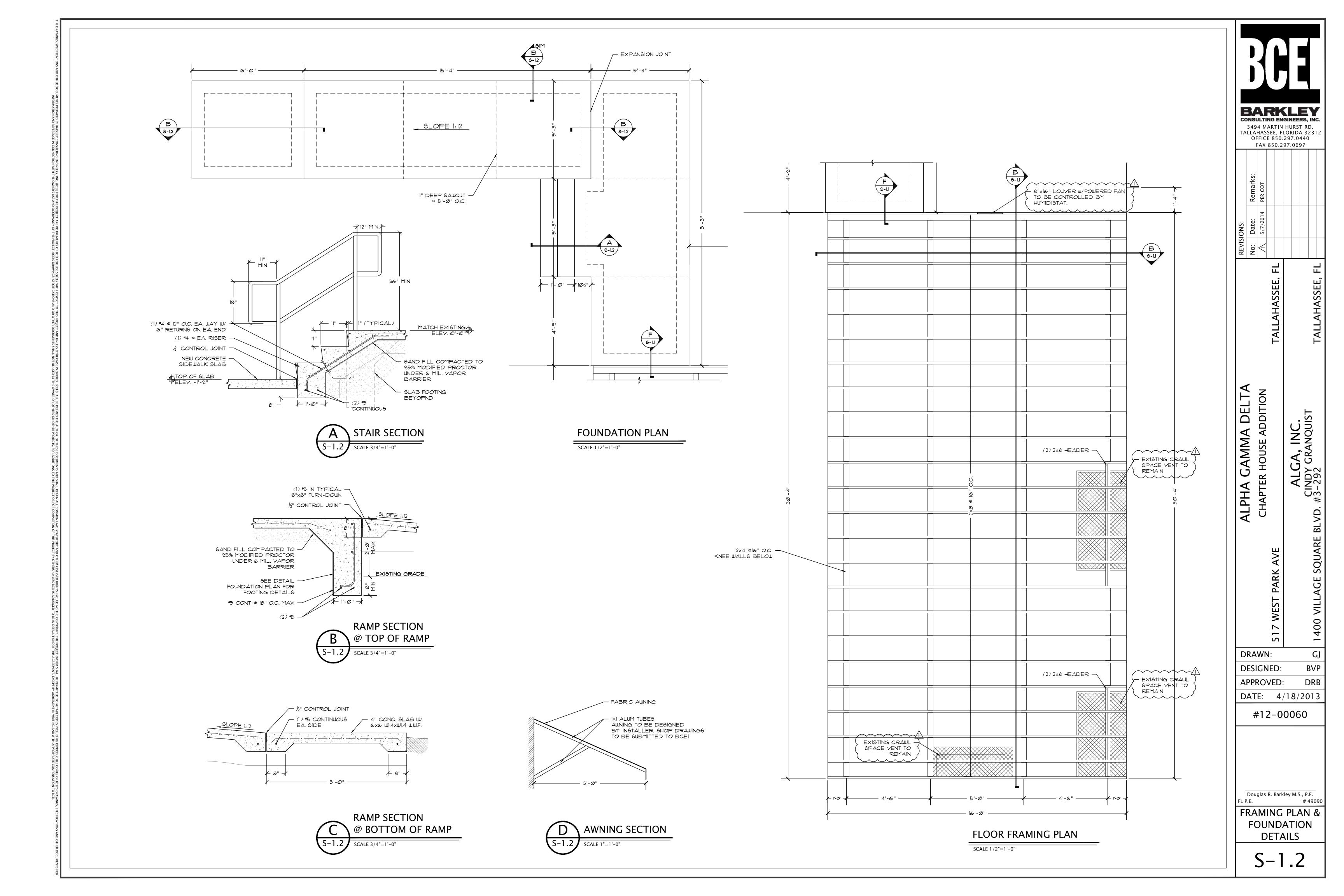
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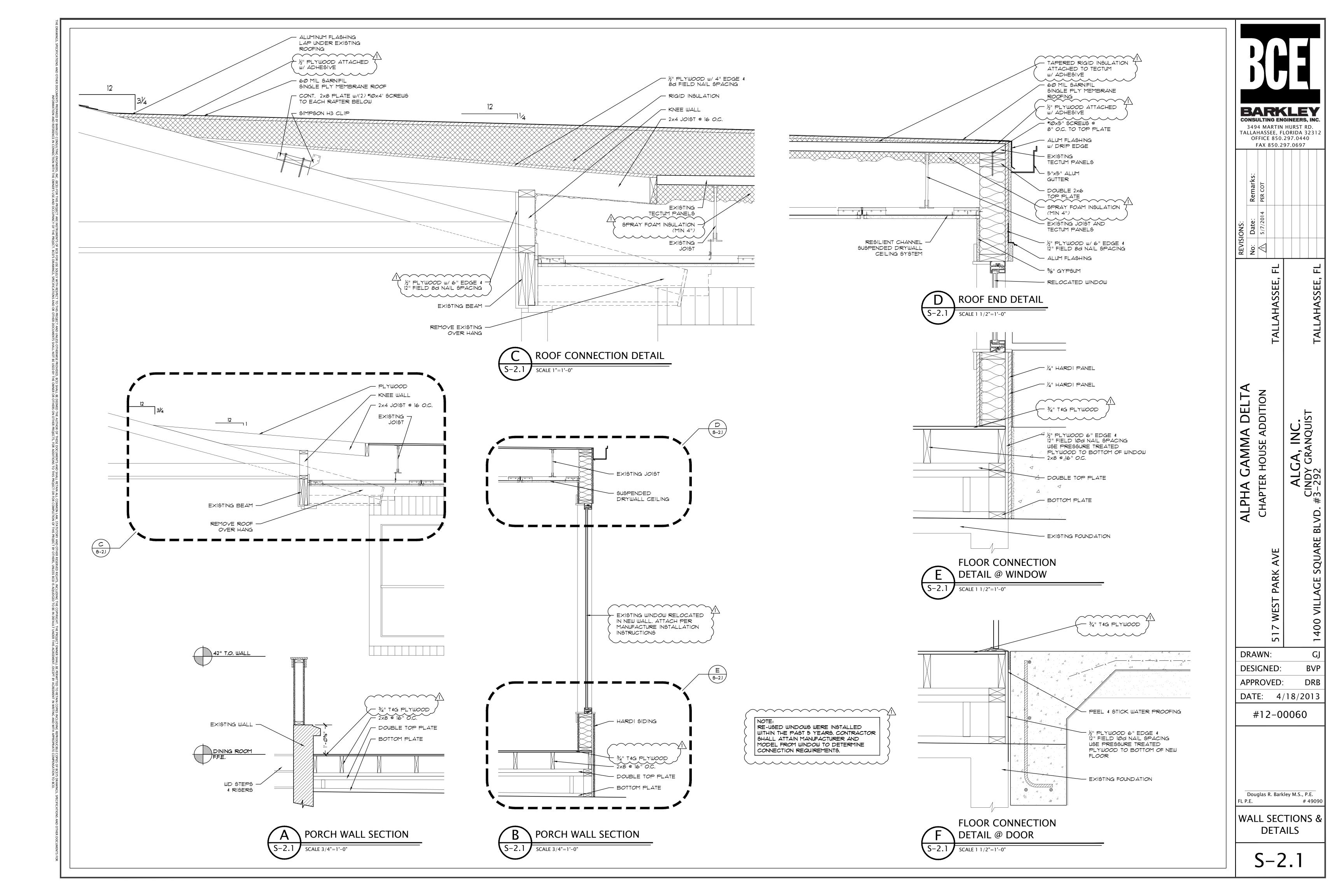
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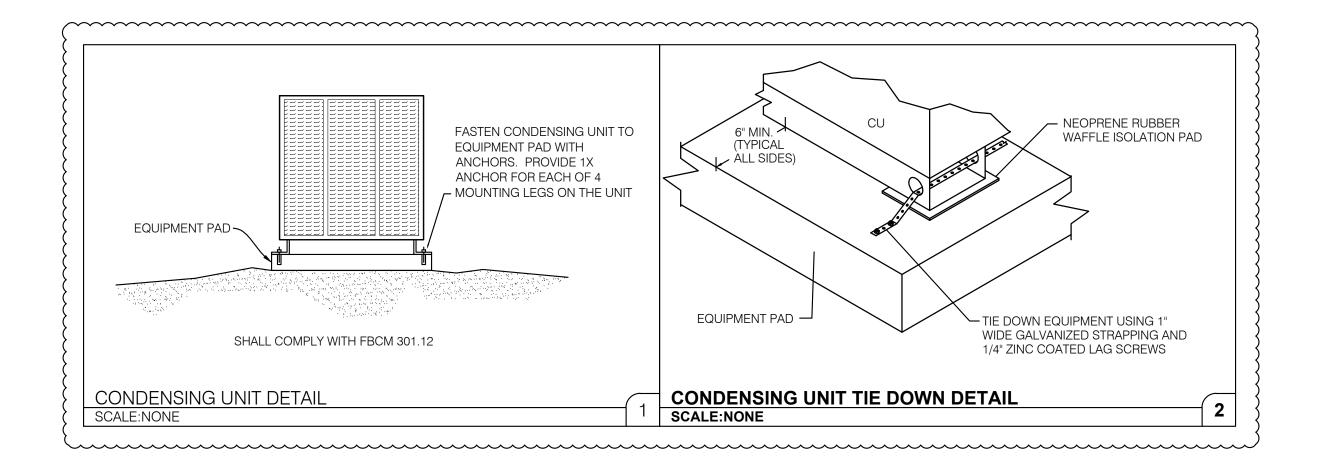
Douglas R. Barkley M.S., P.E.

GENERAL NOTES

S-1.



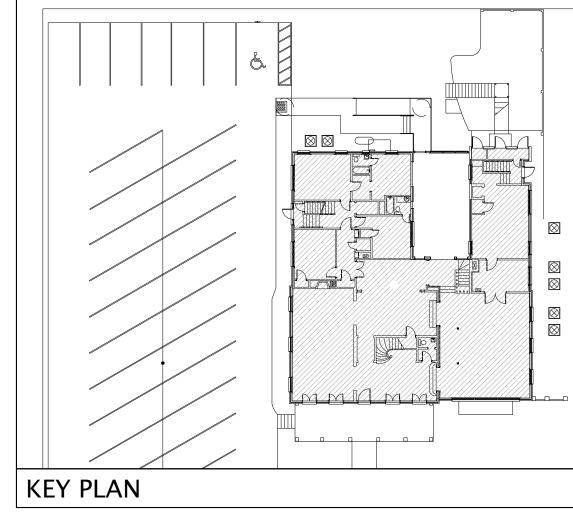




				DUCT	LESS SPLIT	SYSTEM S	CHEDULE					
		INDOOR UNI	T DATA					OUTDOOR	UNIT DATA			
UNIT TAG	UNIT TAG	MANUFACTURER	MODEL #		HEATING CAPACITY	UNIT TAG	MODEL#	COOLING EFF	HEATING EFF (HPSF)	ELECTRICAL	MCA	MAX FUSE
(IINDOOR)	(OUTDOOR)			(MBH)	(MBH)			(SEER)		V/PZ	(A)	(A)
DSA-1	DSCU-1	MITSUBISHI	PLA-A24BA4	24	26	DSCU-1	PUZ-A24NHA4	13.6	8.5	208-230/1	18	30
1. INDOOF	RUNIT IS POW	/ERED FROM OUT	OOR UNIT			,						
2. INDOOF	RUNIT IS CEIL	ING MOUNTED CA	SSETTE.									
3. PROVID	E ALL ACCES	SORIES, MOUNTIN	G BRACKETS,	FLARE FITT	ING, ETC. FO	OR A COME	PLETE INSTALLA	ATION.				

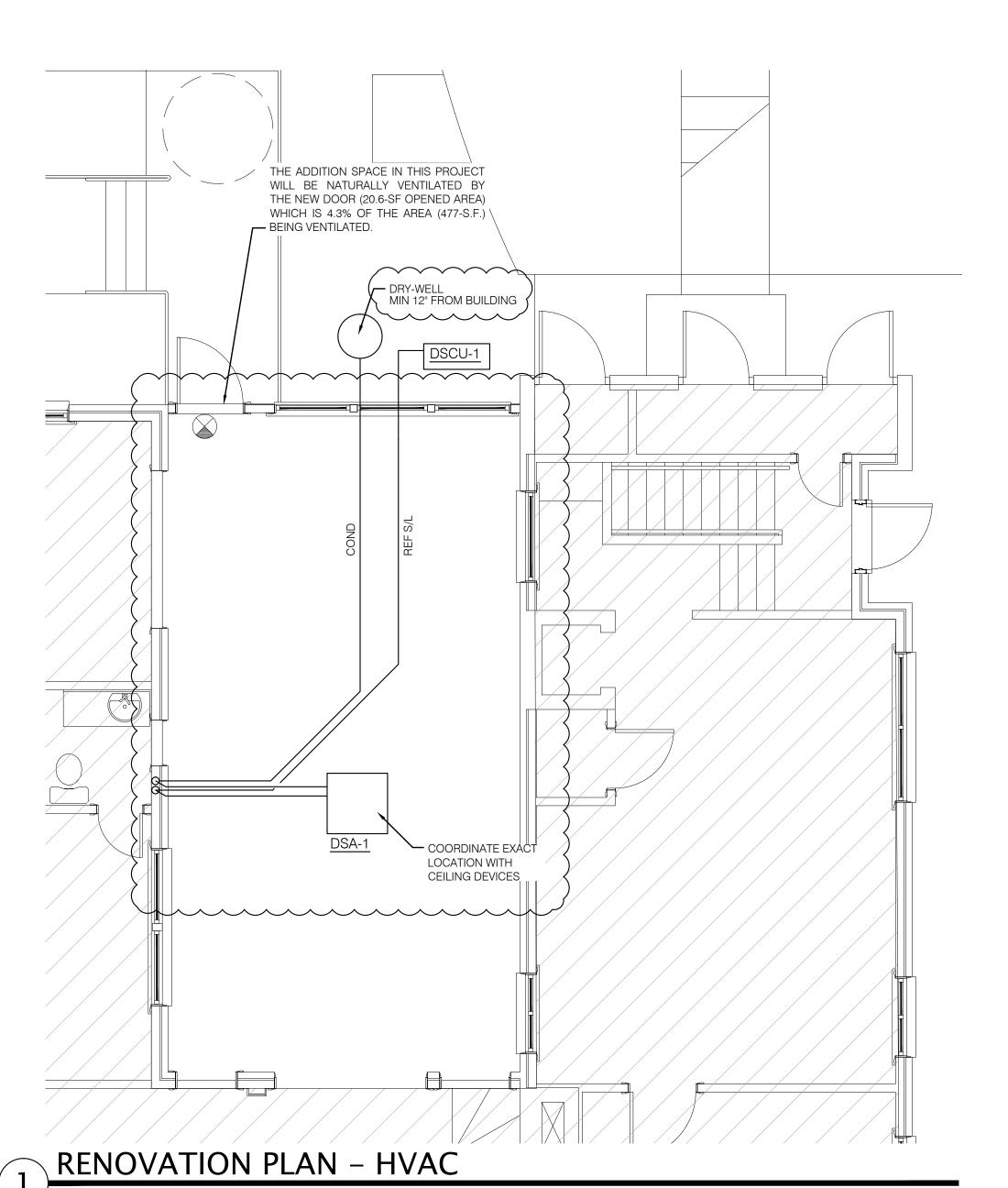
6. UNIT SHALL HAVE MINIMUM EFFFICIENCIES LISTED ABOVE. UNITS WITH LOWER EFFICIENCY VALUES THAN LISTED SHALL NOT BE PERMITTED.

5. PROVIDE INTEGRAL CONDENSATE LIFT OPTION.



DSA-1.1	
	MOUNT CONDENSING UNIT
	ON CONCRETE EQUIPMENT
	PAD. ATTACH UNIT TO PAD WITH CONCRETE ANCHORS
	THROUGH THE CONDENSING
	UNIT MOUNTING LEGS
(ZSLOPED 3/4" CONDENSATE DRAIN \	CONCRETE EQUIPMENT PAD
WITH 1" ELASTOMERIC INSULATION ENTIRE LENGTH	NSTALL ALUMINUM JACKETING
TERMINATE CONDENSATE DRAIN LINE IN 2'-0"	ON ALL EXTERIOR INSULATED REFRIGERANT LINES.
DIAMETER, 2'-0" DEEP GRAVEL FILLED DRY WELL.	NEFRIGERANI LINEO.
VERIFY REQUIRED LOCATION OF DRY WELL WITH OWNER PREFERENCE (MIN 12" FROM BUILDING).	
VERIFY REQUIRED LOCATION OF DRY WELL WITH OWNER PREFERENCE (MIN 12" FROM BUILDING). CONDENSATE DRAIN LINE MAY TIE INTO A SITE	
VERIFY REQUIRED LOCATION OF DRY WELL WITH OWNER PREFERENCE (MIN 12" FROM BUILDING).	





#### HVAC GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INTENDED TO SHOW THE GENERAL SCOPE OF WORK. IT IS THE INTENT TO

  PROVIDE A FULLY FUNCTIONAL LIVAGE SYSTEM.
- PROVIDE A FULLY FUNCTIONAL HVAC SYSTEM.

  2. ALL WORK SHALL COMPLY WITH LOCAL CODES AND ACCEPTED STANDARDS AND PROCEDURES INCLUDING:
- STANDARDS AND PROCEDURES, INCLUDING: 2.1. THE FLORIDA BUILDING CODE, 2010
- 2.1.1. BUILDING 2.1.2. MECHANICAL 2.1.3. ELECTRICAL
- 2.1.3. ELECTRICAL
  2.1.4. PLUMBING
- 2.2. SMACNA STANDARDS2.3. MANUFACTURER'S PUBLISHED INSTALLATION GUIDES FOR EQUIPMENT AND MATERIALS THAT ARE USED AS PART OF THIS
- 3. COORDINATE ELECTRICAL REQUIREMENTS AND BREAKER SIZES
- WITH THE ELECTRICIAN ON THE PROJECT.

  4. ALL INSULATION SHALL HAVE ALL SEAMS AND JOINTS SEALED AIR
- 4. ALL INSULATION SHALL HAVE ALL SEAMS AND JOINTS SEALEI AND VAPOR TIGHT.
- 5. WHERE PIPES PENETRATE WALL OR FLOOR SYSTEMS, SEAL ANNULAR SPACE AROUND OPENING WITH SILICONE CAULK AND/OR FOAM INSULATION.

#12-00060

AMMA

ALPHA G

DRAWN:

DESIGNED:

APPROVED:

DATE: 4/28/2014

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## ELECTRICAL SPECIFICATIONS

#### SECTION 16050 - BASIC ELECTRICAL MATERIALS AND METHODS

- ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.
- IDENTIFICATION DEVICE COLORS: USE THOSE PRESCRIBED BY ANSI A13.1, NFPA 70, AND THESE SPECIFICATIONS COLORED ADHESIVE MARKING TAPE FOR RACEWAYS, WIRES, AND CABLES:
- SELF-ADHESIVE VINYL TAPE, NOT LESS THAN 1 INCH WIDE BY 3 MILS THICK (25 MM WIDE BY 0.08 MM THICK). TAPE MARKERS FOR CONDUCTORS: VINYL OR VINYL-CLOTH, SELF-ADHESIVE,
- WRAPAROUND TYPE WITH PREPRINTED NUMBERS AND LETTERS. STOCK, MELAMINE PLASTIC LAMINATE PUNCHED OR DRILLED FOR MECHANICAL FASTENERS 1/16-INCH (1.6-MM) MINIMUM THICKNESS FOR SIGNS UP TO 20 SQ. IN. (129 SQ. CM) AND 1/8-INCH (3.2-MM) MINIMUM THICKNESS FOR LARGER
- SIZES. ENGRAVED LEGEND IN BLACK LETTERS ON WHITE BACKGROUND. PULL STRINGS: PROVIDE PULL STRINGS IN ALL SPARE OR EMPTY CONDUITS AND RACEWAYS.
- COORDINATE NAMES, ABBREVIATIONS, COLORS, AND OTHER DESIGNATIONS USED FOR ELECTRICAL IDENTIFICATION WITH CORRESPONDING DESIGNATIONS INDICATED IN THE CONTRACT DOCUMENTS OR REQUIRED BY CODES AND STANDARDS. USE CONSISTENT DESIGNATIONS THROUGHOUT PROJECT.
- CUT, CHANNEL, CHASE, AND DRILL FLOORS, WALLS, PARTITIONS, CEILINGS, AND OTHER SURFACES REQUIRED TO PERMIT ELECTRICAL INSTALLATIONS. PERFORM CUTTING BY SKILLED MECHANICS OF TRADES INVOLVED. SEAL ALL CONDUIT
- PENETRATIONS. USE APPROVED METHODS TO MAINTAIN UL-RATED ASSEMBLIES. REPAIR, REFINISH AND TOUCH UP DISTURBED FINISH MATERIALS AND OTHER
- SURFACES TO MATCH ADJACENT UNDISTURBED SURFACES. 10. ALL WORK SHALL COMPLY WITH NATIONAL ELECTRICAL CODE (NEC) 2008 EDITION, FLORIDA BUILDING CODE 2010 EDITION, AND FLORIDA FIRE PREVENTION CODE,

#### SECTION 16060 - GROUNDING AND BONDING

- EQUIPMENT GROUNDING CONDUCTORS: COMPLY WITH NFPA 70, ARTICLE 250, FOR TYPES, SIZES, AND QUANTITIES OF EQUIPMENT GROUNDING CONDUCTORS, UNLESS SPECIFIC TYPES, LARGER SIZES, OR MORE CONDUCTORS THAN REQUIRED BY NFPA 70 ARE INDICATED.
- 2. INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS IN ALL FEEDERS AND BRANCH CIRCUITS.
- 3. ALL GROUNDING CONDUCTORS SHALL BE COPPER; COMPLY WITH DIVISION 16
- SECTION "CONDUCTORS AND CABLES" AND ASTM B, AS APPLICABLE. 4. EQUIPMENT GROUNDING CONDUCTORS: INSULATED WITH GREEN-COLORED
- INSULATION. 5. CONNECTORS: COMPLY WITH IEEE 837 AND UL 467; LISTED FOR USE FOR SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND CONNECTED
- IN RACEWAYS, USE INSULATED EQUIPMENT GROUNDING CONDUCTORS. GROUNDING CONDUCTORS: ROUTE ALONG SHORTEST AND STRAIGHTEST PATHS POSSIBLE, UNLESS OTHERWISE INDICATED. AVOID OBSTRUCTING ACCESS OR
- 8. BONDING STRAPS AND JUMPERS: INSTALL SO VIBRATION BY EQUIPMENT MOUNTED ON VIBRATION ISOLATION HANGERS OR SUPPORTS IS NOT TRANSMITTED TO RIGIDLY MOUNTED EQUIPMENT.

PLACING CONDUCTORS WHERE THEY MAY BE SUBJECTED TO STRAIN, IMPACT, OR

#### <u>SECTION 16120 - CONDUCTORS AND CABLES</u> CONDUCTOR MATERIAL: COPPER COMPLYING WITH NEMA WC 5 OR 7; SOLID CONDUCTOR FOR NO. 10 AWG AND SMALLER, STRANDED FOR NO. 8 AWG AND LARGER. MINIMUM CONDUCTOR SIZE: #12 AWG.

- CONDUCTOR INSULATION TYPES: TYPE THHN-THWN COMPLYING WITH NEMA WC 5
- TYPE MC CABLE SHALL BE PERMITTED IN CONCEALED LOCATIONS, WHERE ALLOWED
- FEEDERS CONCEALED IN WALLS OR CEILING: TYPE THHN-THWN, SINGLE
- CONDUCTORS IN RACEWAY; MC CABLE. BRANCH CIRCUITS CONCEALED IN CEILINGS, WALLS, AND PARTITIONS: TYPE
- THHN-THWN. SINGLE CONDUCTORS IN RACEWAY: MC CABLE. CONCEAL CABLES AND RACEWAYS IN FINISHED WALLS, CEILINGS, AND FLOORS. USE MANUFACTURER-APPROVED PULLING COMPOUND OR LUBRICANT WHERE NECESSARY; COMPOUND USED MUST NOT DETERIORATE CONDUCTOR OR INSULATION. DO NOT EXCEED MANUFACTURER'S RECOMMENDED MAXIMUM PULLING
- INSTALL EXPOSED CABLES PARALLEL AND PERPENDICULAR TO SURFACES OF EXPOSED STRUCTURAL MEMBERS, AND FOLLOW SURFACE CONTOURS WHERE

TENSIONS AND SIDEWALL PRESSURE VALUES.

- MAKE SPLICES AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL AND THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN UNSPLICED CONDUCTORS.
- 10. WIRING AT OUTLETS: INSTALL CONDUCTOR AT EACH OUTLET, WITH AT LEAST 6 INCHES (150 MM) OF SLACK.

### SECTION 16130 - RACEWAYS AND BOXES

- 1. PERMANENENTLY LABEL ALL RACEWAYS AND JUNCTION/PULL BOX COVERS TO INDICATE PANEL/CIRCUIT NUMBERS CONTAINED.
- 2. UNLESS OTHERWISE NOTED, PROVIDE NEMA 1 ENCLOSURES IN INDOOR LOCATIONS, NEMA 3R ENCLOSURES IN OUTDOOR LOCATIONS.
- MINIMUM RACEWAY SIZE: 1/2" TRADE SIZE. ALL RACEWAY ABOVE SLAB SHALL
- BE METALLIC. KEEP RACEWAYS AT LEAST 6 INCHES (150 MM) AWAY FROM PARALLEL RUNS OF HOT-WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER PIPING.

MAKE BENDS AND OFFSETS SO ID IS NOT REDUCED. KEEP LEGS OF BENDS IN

- SAME PLANE AND KEEP STRAIGHT LEGS OF OFFSETS PARALLEL, UNLESS OTHERWISE INDICATED. CONCEAL CONDUIT AND EMT WITHIN FINISHED WALLS, CEILINGS, AND FLOORS,
- EXCEPT AT PANEL. INSTALL EXPOSED RACEWAYS PARALLEL OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS AND FOLLOW SURFACE CONTOURS AS MUCH
- AS POSSIBLE. INSTALL RACEWAY SEALING FITTINGS AT SUITABLE, APPROVED, AND ACCESSIBLE LOCATIONS AND FILL THEM WITH UL-LISTED SEALING COMPOUND. INSTALL RACEWAY SEALING FITTINGS WHERE CONDUITS PASS FROM WARM TO COLD LOCATIONS, SUCH AS BOUNDARIES OF REFRIGERATED SPACES AND WHERE
- OTHERWISE REQUIRED BY NFPA 70. FLEXIBLE CONNECTIONS: USE MAXIMUM OF 72 INCHES (1830 MM) OF FLEXIBLE CONDUIT FOR RECESSED AND SEMIRECESSED LIGHTING FIXTURES; FOR EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT; AND FOR ALL MOTORS. USE LFMC IN DAMP OR WET LOCATIONS. INSTALL SEPARATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS.

#### <u> SECTION 16140 — WIRING DEVICES</u>

- 1. STRAIGHT-BLADE-TYPE RECEPTACLES: COMPLY WITH NEMA WD 1, NEMA WD 6, DSCC W-C-596G, AND UL 498. STRAIGHT-BLADE AND LOCKING RECEPTACLES:
- HEAVY-DUTY GRADE. 2. SINGLE- AND DOUBLE-POLE SWITCHES: COMPLY WITH DSCC W-C-896F AND UL
- . SNAP SWITCHES: HEAVY-DUTY GRADE, QUIET TYPE. 4. DEVICE & COVERPLATE FINISH: MATCH EXISTING DEVICES IN BUILDING, UNLESS
- OTHERWISE INDICATED OR REQUIRED BY NFPA 70. 5. INSTALL DEVICES AND ASSEMBLIES LEVEL, PLUMB, AND SQUARE WITH BUILDING
- 6. ARRANGEMENT OF DEVICES: UNLESS OTHERWISE INDICATED, MOUNT FLUSH, WITHLONG DIMENSION VERTICAL. GROUP ADJACENT SWITCHES UNDER SINGLE, MULTIGANG WALL PLATES.
- REMOVE WALL PLATES AND PROTECT DEVICES AND ASSEMBLIES DURING PAINTING. 8. ADJUST LOCATIONS OF FLOOR SERVICE OUTLETS AND SERVICE POLES TO SUIT
- ARRANGEMENT OF PARTITIONS AND FURNISHINGS. 9. AFTER INSTALLING WIRING DEVICES AND AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST FOR PROPER POLARITY, GROUND CONTINUITY, AND COMPLIANCE WITH REQUIREMENTS.
- 10. TEST GFCI OPERATION WITH BOTH LOCAL AND REMOTE FAULT SIMULATIONS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

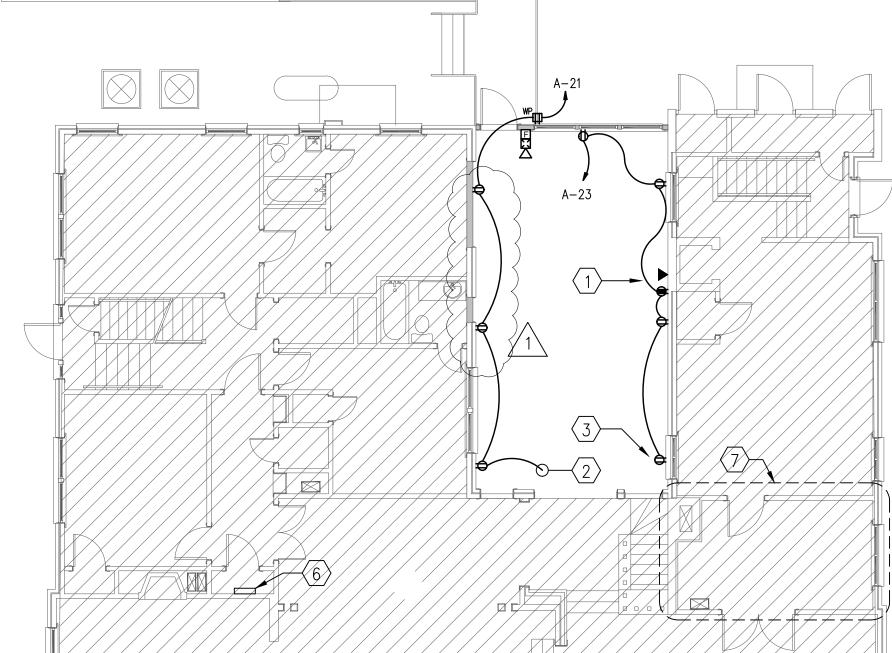
- ENCLOSED SWITCHES SHALL BE MANUFACTURED BY SQUARE-D. CUTLER-HAMMER. GE, OR SIEMENS.
- ALL ENCLOSED SWITCHES SHALL BE LOCKABLE.
- MOUNT INDIVIDUAL WALL-MOUNTING SWITCHES WITH TOPS AT UNIFORM HEIGHT, UNLESS OTHERWISE INDICATED.
- ENCLOSED SWITCHES SHALL BE UL LISTED FOR THE APPLICATION USED; ENCLOSURES SHALL BE NEMA 1 FOR INDOORS DRY LOCATIONS, NEMA 3R FOR OUTDOORS OR DAMP LOCATIONS.

- MANUFACTURERS: PANELBOARDS SHALL BE MANUFACTURED BY SQUARE-D,
- CUTLER-HAMMER, GE, OR SIEMENS. ENCLOSURES: FLUSH- AND SURFACE-MOUNTED CABINETS. NEMA PB 1, TYPE 1
- PHASE AND GROUND BUSES: HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY. CONDUCTOR CONNECTORS: SUITABLE FOR USE WITH CONDUCTOR MATERIAL.
- SERVICE EQUIPMENT LABEL: UL LABELED FOR USE AS SERVICE EQUIPMENT FOR PANELBOARDS WITH MAIN SERVICE DISCONNECT SWITCHES.
- FUTURE DEVICES: MOUNTING BRACKETS, BUS CONNECTIONS, AND NECESSARY APPURTENANCES REQUIRED FOR FUTURE INSTALLATION OF DEVICES.
- PANELBOARD SHORT-CIRCUIT RATING: FULLY RATED TO INTERRUPT SYMMETRICAL SHORT-CIRCUIT CURRENT AVAILABLE AT TERMINALS. MAIN OVERCURRENT PROTECTIVE DEVICES: CIRCUIT BREAKER.
- MOLDED-CASE CIRCUIT BREAKER: UL 489, WITH INTERRUPTING CAPACITY TO MEET AVAILABLE FAULT CURRENTS. NEW BREAKERS TO BE INSTALLED IN EXISTING PANELS SHALL HAVE SAME MANUFACTURER AS PANEL, AND SHALL BE RATED FOR PANEL NAMEPLATE AIC RATING.
- 10. MOUNT TOP OF TRIM 74 INCHES (1880 MM) ABOVE FINISHED FLOOR, UNLESS OTHERWISE INDICATED.
- MOUNT PLUMB AND RIGID WITHOUT DISTORTION OF BOX. MOUNT RECESSED PANELBOARDS WITH FRONTS UNIFORMLY FLUSH WITH WALL FINISH.
- INSTALL FILLER PLATES IN UNUSED SPACES. PROVIDE NEW TYPE-WRITTEN PANEL DIRECTORIES, SHOWING ALL EXISTING AND
- PANELBOARD NAMEPLATES: LABEL EACH PANELBOARD WITH ENGRAVED METAL OR LAMINATED-PLASTIC NAMEPLATE MOUNTED WITH CORROSION-RESISTANT SCREWS.

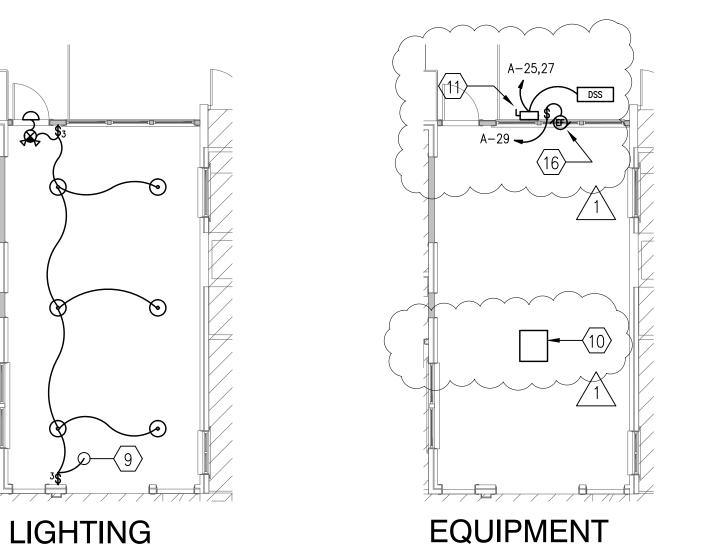
#### SECTION 16511 — INTERIOR LIGHTING

- LIGHTING FIXTURES: PER PROJECT PLANS 2. UNLESS OTHERWISE INDICATED, FLUORESCENT BALLASTS SHALL BE ELECTRONIC, SOUND RATING A, THD LESS THAN 20%, CURRENT CREST FACTOR LESS THAN 1.7,
- OPERATING FREQUENCY GREATER THAN 20KHZ. WHERE EXIT SIGNS ARE USED, THEY SHALL BE LED-TYPE.
- 4. FIXTURES: SET LEVEL, PLUMB, AND SQUARE WITH CEILINGS AND WALLS. 5. PROVIDE ALL BACKBOXES, BLOCKING, STEMS, FEEDS, AND OTHER HARDWARE AS
- REQUIRED FOR INSTALLATION. 6. INSTALL LAMPS/BALLASTS IN EACH FIXTURE; BALLASTS SHALL BE PROVIDED WITH
- DISCONNECT PER NEC. 7. FOR EMERGENCY LIGHTING FIXTURES, PROVIDE UNSWITCHED HOT CONDUCTOR AS INDICATED ON THE PLANS.

- THE CONTRACTOR SHALL FURNISH ALL LABOR AND EQUIPMENT FOR THE COMPLETE EXTENSION OF THE FIRE ALARM SYSTEM AND SHALL POSSESS THE APPROPRIATE EC OR E.F. LICENSE AS REQUIRED BY THE STATE OF FLORIDA. CERTIFICATION AS NICET (NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES) ENGINEER, LEVEL III, IS ALSO REQUIRED.
- THE FIRE ALARM SYSTEM SHALL BE INSTALLED, INSPECTED, TESTED AND CERTIFIED PER APPROPRIATE NFPA 12, 12A, 70, 72, 72E, 90A AND 101. ANY OTHER APPLICABLE CODE SHALL APPLY TO MEET STATE OF FLORIDA AND FIRE MARSHAL REQUIREMENTS. THE EQUIPMENT SHALL BE APPROVED BY UNDERWRITERS LABORATORIES, INC., SHALL COMPLY WITH NFPA CODES AND REGULATIONS AND MEET REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
- IN ADDITION TO DEVICES SHOWN ON THE PLAN, THE CONTRACTOR SHALL PROVIDE ALL CARDS, MODULES, POWER SUPPLIES, CABLING, AND OTHER EQUIPMENT AS MAY BE NECESSARY TO EXTEND THE SYSTEM TO THE NEW DEVICES SHOWN TO BE
- THE FIRE ALARM SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR A PERIOD OF ONE YEAR FOR EQUIPMENT, MATERIALS AND WORKMANSHIP OF THE MODIFICATIONS OF THE SYSTEM, AS SHOWN ON THESE PLANS.
- PROTECT EXISTING DEVICES TO REMAIN DURING CONSTRUCTION. NEW NOTIFICATION DEVICES SHALL MATCH AUDIBLE/VISUAL CHARACTERISTICS OF
- EXISTING DEVICES TO REMAIN IN THE BUILDING. CONTRACTOR SHALL RETEST AND RECERTIFY SYSTEM PRIOR TO COMPLETION OF
- THE EXISTING FACP FOR BUILDING IS FIRE DMP DS7400.
- THE FIRE ALARM CONTRACTOR SHALL APPLY FOR, AND OBTAIN, A SEPARATE PERMIT FOR ALL FIRE ALARM WORK. PROVIDE ALL SHOP DRAWINGS REQUIRED FOR PERMITTING, INCLUDING:
- A. PLANS SHOWING NEW ALARM DEVICE, MODULE AND PANEL LAYOUT, SPECIFICATIONS AND INFORMATION (INCLUDING CANDELA USED IN THE SCOPE OF WORK):
- B. THE SPECIFICATIONS SHOULD CLEARLY NOTE OR DEMONSTRATE COMPATIBILITY WITH ANY EXISTING COMPONENTS AND COMPLIANCE WITH THE SYNCHRONIZATION REQUIREMENT OF NFPA 72;
- C. A RISER DIAGRAM SHOWING DEVICES AND WIRING NOTES OR SCHEDULE; D. POWER CALCULATIONS WITH STANDBY POWER VALUES.



**POWER & SYSTEMS** SCALE: 1/8" = 1' - 0"



MAIN: 150A/2P M.C.B.

TYPE: NEMA-1, SURFACE

LOCATION: SEE PLAN

RATING: 10,000 AIC

CKT DESCRIPTION

9 LIGHT

11 HOT BAR

17 HEAT

23 | RECEPTS \*

29 FAN-CRAWLSPACE

\* - NEW LOAD

SERVICE: 120/240V, 1-PHASE, 3-WIRE

\*\* - PROVIDE ARC-FAULT CIRCUIT BREAKER

SCALE: 1/8" = 1' - 0"

SCALE: 1/8" = 1' - 0"

20 \*\* 1 0.90 30 2 2.10

20 1 0.50

PANEL: A

AS NEW.

BKR P KVA KVA BKR P DESCRIPTION

ALL LOADS SHOWN ARE EXISTING, TO BE

RE-CONNECTED, EXCEPT WHERE NOTED

60 | 2 | AHU

60 2 AHU

25 | 2 | A/C

30 | 2 | A/C

20 1 COFFEI

20 1 MICROW

20 1 EXISTING LOAD

SPACE

SPACE

**ELECTRICAL ROOM** 

SCALE: 1/8" = 1' - 0"

 $\langle 5 \rangle$  -NOT USED-(6) EXISTING FIRE ALARM CONTROL PANEL: DMP DS7400. 7 ELECTRICAL ROOM IN BASEMENT, BELOW; SEE DETAIL, THIS SHEET.  $\langle 8 \rangle$  -NOT USED- $\langle 9 \rangle$  EXTEND TO ROOM RECEPTACLE CIRCUIT.

ELECTRICAL LEGEND:

INDICATED ON PLAN.

LIGHTING #S7130-2C26E-BN.

WHERE PERMITTED BY CODE.

WORK NOTES:

 $\langle 2 \rangle$  EXTEND TO ROOM LIGHTING CIRCUIT.

NEW 20A/120V DUPLEX RECEPTACLE, MOUNTED 18" A.F.F.

WEATHERPROOF-IN-USE CAST ALUMINUM COVER.

NEW 20A/120V DUPLEX RECEPTACLE, WITH INTEGRAL GFCI PROTECTION. "WP" INDICATES

NEW 20A/120V DUPLEX RECEPTACLE, WITH INTEGRAL GFCI PROTECTION. MOUNT HIGH, AS

NEW CATV OUTLET. PROVIDE RG-6 TO TELCO DEMARC (FIELD VERIFY LOCATION/ROUTING).

NEW 20A/120V SINGLE-POLE QUIET-TYPE SNAP SWITCH. "3" INDICATES 3-WAY SWITCH.

NEW CLOSE-CEILING FLUORESCENT LIGHTING FIXTURE, EQUAL TO SCOTT ARCHITECTURAL

NEW EXTERIOR WALL-MOUNTED SECURITY LIGHT, WITH INTEGRAL PHOTOCELL CONTROL,

NEW LED COMBO-TYPE EXIT SIGN WITH EMERGENCY LIGHTS (WITH INTEGRAL BATTERY),

BRANCH CIRCUIT CONDUCTORS, IN RACEWAY. ALL CONDUCTORS SHALL BE COPPER,

CONDUCTOR (SIZED PER NEC). CONDUCTORS/RACEWAY SHALL BE CONCEALED WHERE

 $\langle$  1  $\rangle$  verify exact location and mounting height of tv receptacle and

 $\langle 3 \rangle$  RECEPTACLE SPACING SHALL COMPLY WITH THE REQUIREMENTS OF NEC

210.52(A)(1) (TYPICAL). VERIFY SPACING PRIOR TO ROUGH-IN.

CATV OUTLET WITH OWNER PRIOR TO ROUGH-IN.

THHN/THWN (OR EQUAL) INSULATION, #12 AWG (MINIMUM), WITH EQUIPMENT GROUNDING

POSSIBLE; ANY EXPOSED RACEWAY, STRAPS, OR BOXES SHALL BE PRIMED AND PAINTED TO

MATCH ADJACENT SURFACE. MC CABLE SHALL BE ALLOWED IN CONCEALED LOCATIONS ONLY,

EQUAL TO BEGHELLI #PCH-R-SA. PROVIDE UNSWITCHED HOT CONDUCTOR.

NEW FIRE ALARM SYSTEM MANUAL PULL STATION.

NEW FIRE ALARM SYSTEM HORN/STROBE DEVICE.

EQUAL TO H.E. WILLIAMS #WPARC-226Q-G24q3-D-PC. PROVIDE UNSWITCHED HOT

NEW 20A/120V DUPLEX RECEPTACLE. MOUNT HIGH, AS INDICATED ON PLAN.

(10) ductless split indoor unit. Unit shall be powered from outdoor unit; PROVIDE 30A/2P MOTOR-RATED SNAP SWITCH, AT UNIT, FOR DISCONNECT MEANS, IF UNIT IS NOT FURNISHED WITH INTEGRAL DISCONNECT, FIELD COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

(11) PROVIDE NEW 30A/2P N.F. NEMA-3R ENCLOSED SAFETY SWITCH, WITH 1/2" C.-2 #10, #10 GND, TO PANEL.

 $\langle 12 \rangle$  -NOT USED-

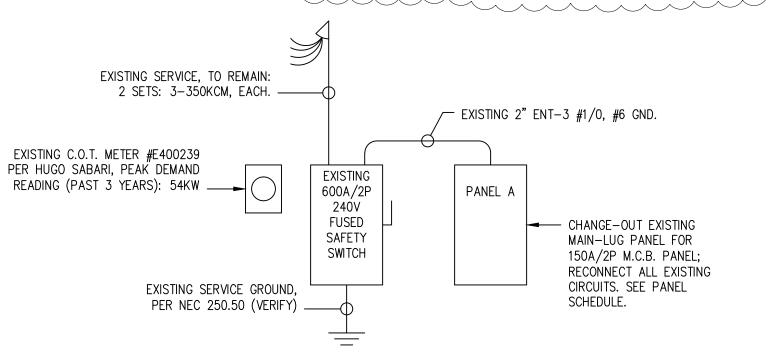
 $\langle 4 \rangle$  -NOT USED-

(13) EXISTING 600A/2P FUSED SAFETY SWITCH, TO REMAIN.

 $\langle 14 \rangle$  EXISTING PANELS, TO REMAIN.

(15) EXISTING PANEL A; REPLACE MAIN-LUG PANEL WITH NEW 150A/2P MAIN BREAKER PANEL, RE-FEED ALL EXISTING CIRCUITS. SEE PANEL SCHEDULE.

(16) CRAWLSPACE VENTILATION FAN, CONTROLLED BY HUMIDISTAT. PROVIDE 20A/1P MOTOR-RATED SNAP-SWITCH, WITH WEATHERPROOF COVER, FOR DISCONNECT. FIELD-COORDINATE EXACT LOCATION WITH MECHANICAL.



ALL EQUIPMENT/FEEDERS SHOWN ARE EXISTING, TO REMAIN, EXCEPT AS NOTED OTHERWISE.

## PARTIAL POWER RISER

SCALE: N.T.S.

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BARKLEY 3494 MARTIN HURST RD. TALLAHASSEE, FLORIDA 32312 OFFICE 850.297.0440 FAX 850.297.0697

**N O** ш A CINI 3-2 ALPHA CHAPTI

DRAWN:

**DESIGNED**: APPROVED:

| DATE: 4/18/2013 #12-00060

**ELECTRICAL** PLAN











