

This application is available in alternate formats upon request.

**REQUEST FOR WAIVER FROM ACCESSIBILITY REQUIREMENTS  
OF CHAPTER 553, PART V, 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: Chi Omega Sorority House

Address: 661 West Jefferson Street, Tallahassee, Florida 32304

**2. Name of Applicant. If other than the owner, please indicate relationship of applicant to owner and written authorization by owner in space provided:**

Applicant's Name: HAMMOND DESIGN GROUP, LLC, Architects

Applicant's Address: 5032 Capital Circle SW, STE 2 #399, Tallahassee Florida 32305

Applicant's Telephone: 850-222-2092 FAX: HDG-Architects.com

Applicant's E-mail Address: bhammond@hdg-architects.com

Relationship to Owner: Acting as Agent for the purposes of securing a Waiver

Owner's Name Gillian Stewart, Director Chi Omega Sorority House

Owner's Address: Chi Omega Sorority House, 661 West Jefferson Street, Tallahassee, Florida

Owner's Telephone: (850) 321-3012 FAX \_\_\_\_\_

Owner's E-mail Address: glstewart@comcast.net

Signature of Owner: \_\_\_\_\_

Contact Person: Bret D. Hammond, AIA, ASLA

Contact Person's Telephone: 850-222-2092 E-mail Address: bhammond@hdg-architects.com

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Form No. 2001-01

**3. Please check one of the following:**

New construction.

Addition to a building or facility.

Alteration to an existing building or facility.

Historical preservation (addition).

Historical preservation (alteration).

**4. Type of facility.** Please describe the building (square footage, number of floors). Define the use of the building (i.e., restaurant, office, retail, recreation, hotel/motel, etc.)

The building is the Chi Omega Sorority House at Florida State University. The building consists of approximately 11,816 square feet in total for the existing two story structure. The original structure was constructed in the 1950's. Our project consists of a 1,324 square foot addition on the ground floor of the existing facility. The addition expands the kitchen and dining space and requires some minimal modification to comply with ADA and Life Safety. The building will remain the Chi Omega Sorority House.

**5. Project Construction Cost (Provide cost for new construction, the addition or the alteration):** \$275,000.00

**6. Project Status:** Please check the phase of construction that best describes your project at the time of this application. Describe status.

Under Design  Under Construction\*

In Plan Review  Completed\*

\* Briefly explain why the request has now been referred to the Commission.

The project is being submitted because the City of Tallahassee will not grant a Certificate of Occupancy without having a waiver of vertical accessibility from the Commission. We have done no work on the second floor of the Building but by the City of Tallahassee interpretation they are stating that the second floor is required to be accessible.

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

**Issue**

1) *The immediate Comment below is the direct citation from the City of Tallahassee Building Department*

1: "This alteration invokes Section 553.509 Florida Statutes. Provide vertical accessibility to all levels otherwise seek and obtain waiver for this requirement. **Comment remains.**"

Again we did no work on the second floor of this structure. We have provided an accessible route from the parking lot. All new construction is accessible. We provided an additional chair lift in the existing first floor to correct an existing accessibility issue and have modified a toilet room on the ground floor to provide handicap facilities. At the completion of this work the entire ground floor of the Chi Omega Sorority House will be accessible

**Issue**

2: N/A

**Issue**

3: N/A

8. **Reason(s) for Waiver Request:** The Florida Building Commission may grant waivers of Florida-specific accessibility requirements upon a determination of unnecessary, unreasonable or extreme hardship. Please describe how this project meets the following hardship criteria. Explain all that would apply for consideration of granting the waiver.

The hardship is caused by a condition or set of conditions affecting the owner which does not affect owners in general.

This is an existing masonry structure and has no location inside the structure to install a vertical elevator to the second floor. To install such a device would require building an exterior vertical chase, which would impact/encroach on existing property line setbacks

Substantial financial costs will be incurred by the owner if the waiver is denied.

The additional burden of cost for an elevator to make the second floor accessible would be an undue financial burden and disproportionate cost for the 1,324 square foot addition.

The owner has made a **diligent investigation** into the costs of compliance with the code, but cannot find an efficient mode of compliance. Provide detailed cost estimates and, where

appropriate, photographs. Cost estimates must include bids and quotes.

N/A.

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. Please refer to attached cost breakdown for Accessibility improvements

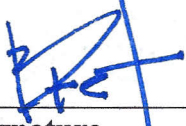
b. N/A

c. N/A.

10. **Licensed Design Professional:** Where a licensed design professional 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.

The building is the Chi Omega Sorority House at Florida State University. The building consists of approximately 11,816 square feet in total, or 5,900 per/floor, for the existing two story structure . The original masonry structure was constructed in the 1950's. Our project consists of a 1,324 square foot addition on the ground floor of the existing facility. The addition expands the kitchen and dining space and requires some modification to comply with Florida ADA requirements. We have complied with the 20% rule as defined in Chapter 11 of the Florida Accessibility Code, please refer to attached cost breakdown. The building will remain the Chi Omega Sorority House.

We have provided an accessible route from the parking area. All new construction is accessible. We have added an additional lift to rectify an existing vertical accessibility problem on the first floor making the entire first floor accessible. We have modified an existing first floor toilet room to provide accessible facilities. Additionally we have provide lever actuated hardware for all doors affected by this modification.

  
\_\_\_\_\_  
Signature

Bret D. Hammond, AIA, ASLA  
Printed Name

Date 6.14.2011

Phone number 850-222-2092

(SEAL)

**CERTIFICATION OF APPLICANT:**

I hereby swear or affirm 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 14<sup>th</sup> day of June, 20 11

Gillian Stewart  
Signature

Gillian Stewart, Director Chi Omega Sorority House  
Printed Name

By signing this application, the applicant represents that the information in it is true, accurate and complete. If the applicant misrepresents or omits any material information, the Commission may revoke any order and will notify the building official of the permitting jurisdiction. Providing false information to the Commission is punishable as a misdemeanor under Section 775.083, Florida Statutes.

**REVIEW AND RECOMMENDATION BY LOCAL BUILDING DEPARTMENT.**

Please state why the issue is being referred to the Florida Building Commission as well as a recommendation for disposition. The Building Official or his or her designee should review the application and indicate that to the best of his or her knowledge, all information stipulated herein is true and accurate. Further, if this project is complete, explain why it is being referred to the Commission. The Building Official or his or her designee should sign a copy of the plans accompanying this application as certification that such plans are the same as those submitted for building department review. Please reference the applicable section of the Accessibility Code.

- a. This change of occupancy is an alteration under Section 11-4.1.6 (i) FBC-B. Therefore, the provisions of Section 11-4.1.6, including vertical accessibility, are
- b. applicable. Section 553.509 Florida Statutes requires vertical accessibility in this building, unless waived by the Florida Building Commission. Only the Florida
- c. Building Commission may grant waivers based upon disproportionate cost.

Has there been any permitted construction activity on this building during the past three years? If so, what was the cost of construction?


Yes    No   Cost of Construction \$ 275,000 (current permitted project)

**Comments/Recommendation**

Except for attesting to the accuracy of the cost estimates as presented, to the best of my knowledge, all information stipulated herein is true and accurate.

Jurisdiction City of Tallahassee

Building Official or Designee

  
 \_\_\_\_\_  
 Signature  
Robert S. Tredik  
 \_\_\_\_\_  
 Printed Name  
BU230  
 \_\_\_\_\_  
 Certification Number  
 850-891-7071 ☎ 850-891-7099

Robert S. Tredik, CBO - Codes Review Manager  
City of Tallahassee Building Inspection Division  
Box B28 - City Hall  
Tallahassee, FL 32301  
[bob.tredik@talgov.com](mailto:bob.tredik@talgov.com)



15 June 2011,

Department of Community Affairs  
**FLORIDA BUILDING COMMISSION**  
2555 Shumard Oak Boulevard  
Tallahassee, Florida 32399-2100

**RE: Chi Omega Sorority House, Tallahassee Florida, Waiver from FS 553, Part V**

To Whom it May Concern:

We are submitting this waiver application package for the Chi Omega Sorority House located in Tallahassee Florida. We are requesting a waiver of vertical accessibility to the second floor of an existing structure. We were contracted by the owner to prepare documents for the small addition to the kitchen and dining area. This modification consists of 1,324 square feet of new space and some minor modifications to the interior to accommodate the accessibility and life safety. All new construction has been designed with accessibility incorporated. Additionally, we have made the necessary modifications to make the entire first floor accessible from the parking lot at the rear of the building and from the front of the building along Jefferson Street.

We have assembled our package based upon your check list and included information that we believe pertinent. We are requesting this waiver as it was identified by the City of Tallahassee Building Department. We have included their review comments.

The structure was originally constructed in the 1950's and did not at that time have an elevator nor has one been added since. We did no work on the second floor and none is anticipated.

Currently we have complied with the 20% rule identified in Chapter 11 of the Florida Building Code.

Again I request a waiver from FS 553, Part V, from making the second floor of the existing structure accessible.

**HAMMOND DESIGN GROUP, LLC**

Bret D. Hammond, AIA, ASLA

Architecture / Landscape Architecture  
AA #0003346 LA #0001313



# PLAN REVIEW COMMENTS

APPLICANT SERVICES  
(850) 891-7125  
FAX: 891-0948  
BUILDING INSPECTION  
(850) 891-7050  
FAX: 891-7099

Mailing Address:  
300 South Adams St., B-28  
Tallahassee, Florida 32301

## Review #2

Overnight Address:  
435 N Macomb St.  
Tallahassee, FL 32301

Date: Thursday, May 12, 2011

To: Rhonda Hammond /  
Hammond Design Group /  
rhonda@hdg-architects.com

City Project #: TBB110534  
Project Name: Chi Omega Sorority Dining Room Expansion  
Address: 611 West Jefferson St.

Copy: Terrell Folsom / Renegade Construction, Inc. /tfolsomd@comcast.net  
Thomas Beitelman / Sound Structures Engineering/ beitelman@gmail.com

From: Luther Gunter –  
email: Luther.Gunter@talgov.com

Total # of pages transmitted: 3 (includes cover sheet)

The above referenced project has been reviewed and placed on HOLD by the reviewers listed below. Please contact the individual plan reviewer with specific questions regarding their comments. **AREA CODE: (850)**

Building		Electrical	
Luther Gunter	891-7059	Kenny Lockwood	891-7091

### \* APPLICANT NOTICE \*

To streamline your plan review, provide all revised drawings and written response(s) in a **“single submittal package”** to Kathy Sands, Permit Tech (850) 891-7145. Make sure the City Project # is indicated on your resubmittal and that all reviewer comments have been responded to. Responses sent through an Express Mail Service (example, FedEx, UPS) shall be sent to the overnight address listed at top of this page, or delays in resubmittal may occur.

#### Please provide all of the following information with your resubmittal:

- 1.) Provide a **written response letter** that addresses all plan reviewer comments. **The response letter shall be on the design professional’s letterhead.** Please reference the corresponding amended plan sheets and indicate all changes made on all plan sheets by clouding the amended plans. Our plan review comments are transmitted electronically, such that the design professional can cut and paste to their response letter and provide their response below the original review comment.
- 2.) Provide two (2) copies of any amended plan sheets, inclusive of any other amended sheets, such as civil, mechanical, electrical, and plumbing plans. All amended plans shall be on full size plan sheets, the same size as originally submitted. Attachments on reduced sized sheets will not be accepted.
- 3.) Provide two (2) sets of supporting documents, such as energy forms or letters
- 4.) **All documents** prepared or issued by a design professional licensed under Chapter 471 and 481 Florida Statutes, shall **bear the original signature, date, and seal of the design professional as required by the corresponding professional board and State Laws.**

**Please be advised - resubmittal fees are assessed for each resubmittal after our 2<sup>nd</sup> review. Resubmittal fees will be collected at the time of permit issuance. Additional penalty fees, in addition to resubmittal fees, may be assessed if the project is resubmitted more than two (2) times.**



City Project #: TBB110534  
Project Name: Chi Omega Sorority Dining Room Expansion  
Address: 611 West Jefferson St.

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**PLUMBING REVIEW: Previously approved DMJR.**  
**ZONING, MECHANICAL, ENERGY, GAS, AND FIRE REVIEW: Approved**

2nd PLAN REVIEW COMMENTS ARE SHOWN IN **BOLD, ITALICS.**  
Original numbering sequence used.

**ELECTRICAL REVIEW: Hold with comments KL**

- 1.) Provide 2 sets of plans to the COT Utilities Department for approval due to the increase in service size. Contact Tina Drose (850) 891-5016 or Ray Mitchell (850) 891-5167. After plans have been completed, pick up and return to COT Building Division Inspection. *Comment remains.*
- 3.) *Sheet E1.1 redlined to revise Work Notes A and C to indicate 2 - #4 Cu with 1- #8 Cu gnd.*

**BUILDING REVIEW: Hold with comments**

Review based upon the 2007 Florida Building Code, Building (FBC-B) with 2009 Supplements.

**PLEASE NOTE:** The Building Official has approved architect's letter of equivalency for occupancy separation.

The following comments remain:

- This alteration invokes Section 553.509 Florida Statutes. Provide vertical accessibility to all levels otherwise seek and obtain waiver for this requirement. *Comment remains.*
- 10) Revise Sections D/S2.0 and A/S3.0 to provide complete sections showing new and existing construction. *Notes for Ledger Detail B/S3.0 indicate Titen HD bolts for wood construction; however these bolts are for masonry construction. Please provide another fastener.*
- 14) Provide details for ALL new handrails, ~~including those at exterior stairs.~~ Ensure handrails meet Section 11-4.9.4 of the Florida Accessibility Code. *The following shall be addressed for handrails at NEW stair to lower dining area:*
  - a) *Per §1012.5 FBC-B, handrails shall extend horizontally at least 12 inches beyond the top riser and continue to slope for the depth of one tread beyond the bottom riser.*
  - b) *Provide handrail detail specific to this stair showing handrail height, measured above stair tread nosings, not less than 34 inches and not more than 38 inches per Section 1012.2 FBC-B.*
  - c) *Per Section 1012.4 FBC-B, handrail-gripping surfaces shall be continuous, without interruption by newel posts or other obstructions. Provide detail specific to this stair and revise plans to clearly illustrate compliance with this section.*
- 16) Provide details to illustrate accessibility for kitchen sinks; ensure sufficient detailing is provided to illustrate compliance with Section 11-4.24 "Sinks" of the Florida Accessibility Code. *Indicate, per architect's conversation with staff, sink is only to be used by kitchen staff and not for use by the public or by the residents of the building. Also, provide a letter to this effect from Sorority management.*

**City Project #:** TBB110534

**Project Name:** Chi Omega Sorority Dining Room Expansion

**Address:** 611 West Jefferson St.

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*3) New comment: UL details shown on Sheet A-8 will not be legible, once scanned. Provide an additional sheet to illustrate these assemblies.*

Upon resubmittal, please provide a ***signed and sealed letter response*** to all reviewer comments, referring readers to the ***revised plan sheets***. Please delineate plan revisions by ***clouding on drawings***.

**END COMMENTS**



Date: May 19, 2011

To: Mr. Luther Gunter  
City of Tallahassee Growth Management  
435 N. Macomb Street  
Tallahassee, Florida 32301

From: Rhonda S. Hammond  
Hammond Design Group, LLC Architects  
5032 Capital Circle SW, Suite 2 #399  
Tallahassee, FL 32305

Re: Response to 2<sup>nd</sup> Plan Review Comments for  
Chi Omega Dining Room Expansion  
611 West Jefferson Street  
Tallahassee, FL 32303

City  
Project #: TBB110534

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**ELECTRICAL REVIEW: Hold with comments**

1.) Provide 2 sets of plans to the COT Utilities Department for approval due to the increase in service size. Contact Tina Drose (850) 891-5016 or Ray Mitchell (850) 891-5167. After plans have been completed, pick up and return to COT Building Division Inspection.

*Response: Will comply. Approved plans have been provided to COT Building Inspection.*

3.) *Sheet E1.1 redlined to revise Work Notes A and C to indicate 2 - #4 Cu with 1- #8 Cu gnd.*

*Response: Redline acknowledged, no further action required.*

**BUILDING REVIEW: Hold with comments**

Review based upon the 2007 Florida Building Code, Building (FBC-B) with 2009 Supplements.

- 1) This alteration invokes Section 553.509 Florida Statutes. Provide vertical accessibility to all levels otherwise seek and obtain waiver for this requirement.

*Response: Complied, owner's agent will apply for waiver.*

- 10) Revise Sections D/S2.0 and A/S3.0 to provide complete sections showing new and existing construction. ***Notes for Ledger Detail B/S3.0 indicate Titen HD bolts for wood construction; however these bolts are for masonry construction. Please provide another fastener.***

*Response: Complied, see response provided per Sound Structures Engineering, Inc., and revised sheet S3.0, attached.*

- 14) Provide details for ALL new stairs, ~~including exterior stairs~~. Ensure new stairs comply with Section 11-4.9 of the Florida Accessibility Code. ***The following shall be addressed for handrails at NEW stair to lower dining area:***

- a. ***Per §1012.5 FBC-B, handrails shall extend horizontally at least 12 inches beyond the top riser and continue to slope for the depth of one tread beyond the bottom riser.***

*Response: Complied, see revised sheet A-8 and detail 1/A-10, attached.*

- b. ***Provide handrail detail specific to this stair showing handrail height, measured above stair tread nosings, not less than 34 inches and not more than 38 inches per Section 1012.2 FBC-B.***

*Response: Complied, see detail 9/A-10, attached.*

- c. ***Per Section 1012.4 FBC-B, handrail-gripping surfaces shall be continuous, without interruption by newel posts or other obstructions. Provide detail specific to this stair and revise plans to clearly illustrate compliance with this section.***

*Response: Complied, see revised sheet A-8 and A-10, attached.*

- 16) Provide details to illustrate accessibility for kitchen sinks; ensure sufficient detailing is provided to illustrate compliance with Section 11-4.24 "Sinks" of the Florida Accessibility Code. ***Indicate, per architect's conversation with staff, sink is only to be used by kitchen staff and not for use by the public or by the residents of the building. Also, provide a letter to this effect from Sorority management.***

*Response: Sink indicated at Dishwashing is for dishwashing and does not serve public. See revised sheet A-8 and letter from Sorority management, attached.*

**18) New comment: UL details shown on Sheet A-8 will not be legible, once scanned.  
Provide an additional sheet to illustrate these assemblies.**

*Response: See revised sheet A-12, attached.*

**19) New Comment: Update Sheet FP-1 to be consistent with architect's letter.**

*Response: See plans and calculations from Dacar Fire, attached.*

*End of Responses*

CONSULTANTS

**Dining Room Expansion  
for Gamma Chapter of  
Chi Omega Sorority at FSU**  
TALLAHASSEE, FLORIDA

**DINING ROOM EXPANSION  
FOR:  
GAMMA CHAPTER OF  
CHI OMEGA SORORITY  
FLORIDA STATE UNIVERSITY  
Tallahassee, Florida**

*Approved with conditions 5-23-2011*

REVIEWED FOR CODE COMPLIANCE  
CITY OF TALLAHASSEE  
BUILDING INSPECTION DIVISION

This review does not relieve the applicant from the responsibility of complying with all applicable codes, laws and ordinances. Any changes to reviewed plans must be submitted for review.

TBB #: 110534  
Address: 611 N. JEFFERSON ST.  
Type Const.: VR  
Code Version: 2007 w/2009 supp  
Add Note on Sheet: FP-1 AND A-100  
Shall Permit:  Y  N

REVISIONS


DATE        ▪ March 2011  
DRAWN       ▪ RSH  
CHECKED    ▪ RSH  
JOB NO.     ▪ HDG 2919

DRAWING

**Vertical accessibility shall be provided to all levels, otherwise a waiver thereof shall be provided prior to Certificate Of Completion.**

**SHEET FP-1 WAS PROVIDED FOR INFORMATION ONLY!**  
**Fire sprinkler system contractor shall submit a separate permit application and plans for review.**

### ABBREVIATIONS

AC	ARCHITECTURE	ME	MASONRY
ACT	ARCHITECTURAL TREATMENT	MF	MASONRY FINISH
AD	ARCHITECTURAL DETAIL	ML	MASONRY LAYOUT
ADU	ARCHITECTURAL UNIT	MS	MASONRY SCHEDULE
AE	ARCHITECTURAL ELEMENT	MT	MASONRY TREATMENT
AF	ARCHITECTURAL FINISH	NU	MECHANICAL
AG	ARCHITECTURAL GROUP	NU1	MECHANICAL UNIT
AH	ARCHITECTURAL HATCH	NU2	MECHANICAL UNIT 2
AI	ARCHITECTURAL INTERIOR	NU3	MECHANICAL UNIT 3
AL	ARCHITECTURAL LAYOUT	NU4	MECHANICAL UNIT 4
AM	ARCHITECTURAL MATERIAL	NU5	MECHANICAL UNIT 5
AN	ARCHITECTURAL NOTE	NU6	MECHANICAL UNIT 6
AO	ARCHITECTURAL OFFICE	NU7	MECHANICAL UNIT 7
AP	ARCHITECTURAL PLAN	NU8	MECHANICAL UNIT 8
AQ	ARCHITECTURAL QUANTITY	NU9	MECHANICAL UNIT 9
AR	ARCHITECTURAL ROOM	NU10	MECHANICAL UNIT 10
AS	ARCHITECTURAL SECTION	NU11	MECHANICAL UNIT 11
AT	ARCHITECTURAL TREATMENT	NU12	MECHANICAL UNIT 12
AV	ARCHITECTURAL VENT	NU13	MECHANICAL UNIT 13
AW	ARCHITECTURAL WINDOW	NU14	MECHANICAL UNIT 14
AX	ARCHITECTURAL X-RAY	NU15	MECHANICAL UNIT 15
AY	ARCHITECTURAL YIELD	NU16	MECHANICAL UNIT 16
AZ	ARCHITECTURAL ZONE	NU17	MECHANICAL UNIT 17
BA	BATH	NU18	MECHANICAL UNIT 18
BB	BED ROOM	NU19	MECHANICAL UNIT 19
BC	BREAK ROOM	NU20	MECHANICAL UNIT 20
BD	BED ROOM DETAIL	NU21	MECHANICAL UNIT 21
BE	BED ROOM ELEMENT	NU22	MECHANICAL UNIT 22
BF	BED ROOM FINISH	NU23	MECHANICAL UNIT 23
BG	BED ROOM GROUP	NU24	MECHANICAL UNIT 24
BH	BED ROOM HATCH	NU25	MECHANICAL UNIT 25
BI	BED ROOM INTERIOR	NU26	MECHANICAL UNIT 26
BJ	BED ROOM LAYOUT	NU27	MECHANICAL UNIT 27
BK	BED ROOM MATERIAL	NU28	MECHANICAL UNIT 28
BL	BED ROOM NOTE	NU29	MECHANICAL UNIT 29
BM	BED ROOM OFFICE	NU30	MECHANICAL UNIT 30
BN	BED ROOM PLAN	NU31	MECHANICAL UNIT 31
BO	BED ROOM QUANTITY	NU32	MECHANICAL UNIT 32
BP	BED ROOM ROOM	NU33	MECHANICAL UNIT 33
BQ	BED ROOM SECTION	NU34	MECHANICAL UNIT 34
BR	BED ROOM TREATMENT	NU35	MECHANICAL UNIT 35
BS	BED ROOM VENT	NU36	MECHANICAL UNIT 36
BT	BED ROOM WINDOW	NU37	MECHANICAL UNIT 37
BV	BED ROOM X-RAY	NU38	MECHANICAL UNIT 38
BW	BED ROOM YIELD	NU39	MECHANICAL UNIT 39
BX	BED ROOM ZONE	NU40	MECHANICAL UNIT 40
BY	BED ROOM ZONE DETAIL	NU41	MECHANICAL UNIT 41
BZ	BED ROOM ZONE ELEMENT	NU42	MECHANICAL UNIT 42
CA	CORRIDOR	NU43	MECHANICAL UNIT 43
CB	CORRIDOR DETAIL	NU44	MECHANICAL UNIT 44
CC	CORRIDOR ELEMENT	NU45	MECHANICAL UNIT 45
CD	CORRIDOR FINISH	NU46	MECHANICAL UNIT 46
CE	CORRIDOR GROUP	NU47	MECHANICAL UNIT 47
CF	CORRIDOR HATCH	NU48	MECHANICAL UNIT 48
CG	CORRIDOR INTERIOR	NU49	MECHANICAL UNIT 49
CH	CORRIDOR LAYOUT	NU50	MECHANICAL UNIT 50
CI	CORRIDOR MATERIAL	NU51	MECHANICAL UNIT 51
CJ	CORRIDOR NOTE	NU52	MECHANICAL UNIT 52
CK	CORRIDOR OFFICE	NU53	MECHANICAL UNIT 53
CL	CORRIDOR PLAN	NU54	MECHANICAL UNIT 54
CM	CORRIDOR QUANTITY	NU55	MECHANICAL UNIT 55
CN	CORRIDOR ROOM	NU56	MECHANICAL UNIT 56
CO	CORRIDOR SECTION	NU57	MECHANICAL UNIT 57
CP	CORRIDOR TREATMENT	NU58	MECHANICAL UNIT 58
CQ	CORRIDOR VENT	NU59	MECHANICAL UNIT 59
CR	CORRIDOR WINDOW	NU60	MECHANICAL UNIT 60
CS	CORRIDOR X-RAY	NU61	MECHANICAL UNIT 61
CT	CORRIDOR YIELD	NU62	MECHANICAL UNIT 62
CU	CORRIDOR ZONE	NU63	MECHANICAL UNIT 63
CV	CORRIDOR ZONE DETAIL	NU64	MECHANICAL UNIT 64
CW	CORRIDOR ZONE ELEMENT	NU65	MECHANICAL UNIT 65
CX	CORRIDOR ZONE FINISH	NU66	MECHANICAL UNIT 66
CY	CORRIDOR ZONE GROUP	NU67	MECHANICAL UNIT 67
CZ	CORRIDOR ZONE HATCH	NU68	MECHANICAL UNIT 68
DA	DRAWING AREA	NU69	MECHANICAL UNIT 69
DB	DRAWING DETAIL	NU70	MECHANICAL UNIT 70
DC	DRAWING ELEMENT	NU71	MECHANICAL UNIT 71
DD	DRAWING FINISH	NU72	MECHANICAL UNIT 72
DE	DRAWING GROUP	NU73	MECHANICAL UNIT 73
DF	DRAWING HATCH	NU74	MECHANICAL UNIT 74
DG	DRAWING INTERIOR	NU75	MECHANICAL UNIT 75
DH	DRAWING LAYOUT	NU76	MECHANICAL UNIT 76
DI	DRAWING MATERIAL	NU77	MECHANICAL UNIT 77
DJ	DRAWING NOTE	NU78	MECHANICAL UNIT 78
DK	DRAWING OFFICE	NU79	MECHANICAL UNIT 79
DL	DRAWING PLAN	NU80	MECHANICAL UNIT 80
DM	DRAWING QUANTITY	NU81	MECHANICAL UNIT 81
DN	DRAWING ROOM	NU82	MECHANICAL UNIT 82
DO	DRAWING SECTION	NU83	MECHANICAL UNIT 83
DP	DRAWING TREATMENT	NU84	MECHANICAL UNIT 84
DQ	DRAWING VENT	NU85	MECHANICAL UNIT 85
DR	DRAWING WINDOW	NU86	MECHANICAL UNIT 86
DS	DRAWING X-RAY	NU87	MECHANICAL UNIT 87
DT	DRAWING YIELD	NU88	MECHANICAL UNIT 88
DU	DRAWING ZONE	NU89	MECHANICAL UNIT 89
DV	DRAWING ZONE DETAIL	NU90	MECHANICAL UNIT 90
DW	DRAWING ZONE ELEMENT	NU91	MECHANICAL UNIT 91
DX	DRAWING ZONE FINISH	NU92	MECHANICAL UNIT 92
DY	DRAWING ZONE GROUP	NU93	MECHANICAL UNIT 93
DZ	DRAWING ZONE HATCH	NU94	MECHANICAL UNIT 94
EA	ELECTRICAL AREA	NU95	MECHANICAL UNIT 95
EB	ELECTRICAL DETAIL	NU96	MECHANICAL UNIT 96
EC	ELECTRICAL ELEMENT	NU97	MECHANICAL UNIT 97
ED	ELECTRICAL FINISH	NU98	MECHANICAL UNIT 98
EE	ELECTRICAL GROUP	NU99	MECHANICAL UNIT 99
EF	ELECTRICAL HATCH	NU100	MECHANICAL UNIT 100
EG	ELECTRICAL INTERIOR	NU101	MECHANICAL UNIT 101
EH	ELECTRICAL LAYOUT	NU102	MECHANICAL UNIT 102
EI	ELECTRICAL MATERIAL	NU103	MECHANICAL UNIT 103
EJ	ELECTRICAL NOTE	NU104	MECHANICAL UNIT 104
EK	ELECTRICAL OFFICE	NU105	MECHANICAL UNIT 105
EL	ELECTRICAL PLAN	NU106	MECHANICAL UNIT 106
EM	ELECTRICAL QUANTITY	NU107	MECHANICAL UNIT 107
EN	ELECTRICAL ROOM	NU108	MECHANICAL UNIT 108
EO	ELECTRICAL SECTION	NU109	MECHANICAL UNIT 109
EP	ELECTRICAL TREATMENT	NU110	MECHANICAL UNIT 110
EQ	ELECTRICAL VENT	NU111	MECHANICAL UNIT 111
ER	ELECTRICAL WINDOW	NU112	MECHANICAL UNIT 112
ES	ELECTRICAL X-RAY	NU113	MECHANICAL UNIT 113
ET	ELECTRICAL YIELD	NU114	MECHANICAL UNIT 114
EU	ELECTRICAL ZONE	NU115	MECHANICAL UNIT 115
EV	ELECTRICAL ZONE DETAIL	NU116	MECHANICAL UNIT 116
EW	ELECTRICAL ZONE ELEMENT	NU117	MECHANICAL UNIT 117
EX	ELECTRICAL ZONE FINISH	NU118	MECHANICAL UNIT 118
EY	ELECTRICAL ZONE GROUP	NU119	MECHANICAL UNIT 119
EZ	ELECTRICAL ZONE HATCH	NU120	MECHANICAL UNIT 120
FA	FLOOR AREA	NU121	MECHANICAL UNIT 121
FB	FLOOR DETAIL	NU122	MECHANICAL UNIT 122
FC	FLOOR ELEMENT	NU123	MECHANICAL UNIT 123
FD	FLOOR FINISH	NU124	MECHANICAL UNIT 124
FE	FLOOR GROUP	NU125	MECHANICAL UNIT 125
FF	FLOOR HATCH	NU126	MECHANICAL UNIT 126
FG	FLOOR INTERIOR	NU127	MECHANICAL UNIT 127
FH	FLOOR LAYOUT	NU128	MECHANICAL UNIT 128
FI	FLOOR MATERIAL	NU129	MECHANICAL UNIT 129
FJ	FLOOR NOTE	NU130	MECHANICAL UNIT 130
FK	FLOOR OFFICE	NU131	MECHANICAL UNIT 131
FL	FLOOR PLAN	NU132	MECHANICAL UNIT 132
FM	FLOOR QUANTITY	NU133	MECHANICAL UNIT 133
FN	FLOOR ROOM	NU134	MECHANICAL UNIT 134
FO	FLOOR SECTION	NU135	MECHANICAL UNIT 135
FP	FLOOR TREATMENT	NU136	MECHANICAL UNIT 136
FQ	FLOOR VENT	NU137	MECHANICAL UNIT 137
FR	FLOOR WINDOW	NU138	MECHANICAL UNIT 138
FS	FLOOR X-RAY	NU139	MECHANICAL UNIT 139
FT	FLOOR YIELD	NU140	MECHANICAL UNIT 140
FU	FLOOR ZONE	NU141	MECHANICAL UNIT 141
FV	FLOOR ZONE DETAIL	NU142	MECHANICAL UNIT 142
FW	FLOOR ZONE ELEMENT	NU143	MECHANICAL UNIT 143
FX	FLOOR ZONE FINISH	NU144	MECHANICAL UNIT 144
FY	FLOOR ZONE GROUP	NU145	MECHANICAL UNIT 145
FZ	FLOOR ZONE HATCH	NU146	MECHANICAL UNIT 146
GA	GENERAL AREA	NU147	MECHANICAL UNIT 147
GB	GENERAL DETAIL	NU148	MECHANICAL UNIT 148
GC	GENERAL ELEMENT	NU149	MECHANICAL UNIT 149
GD	GENERAL FINISH	NU150	MECHANICAL UNIT 150
GE	GENERAL GROUP	NU151	MECHANICAL UNIT 151
GF	GENERAL HATCH	NU152	MECHANICAL UNIT 152
GG	GENERAL INTERIOR	NU153	MECHANICAL UNIT 153
GH	GENERAL LAYOUT	NU154	MECHANICAL UNIT 154
GI	GENERAL MATERIAL	NU155	MECHANICAL UNIT 155
GJ	GENERAL NOTE	NU156	MECHANICAL UNIT 156
GK	GENERAL OFFICE	NU157	MECHANICAL UNIT 157
GL	GENERAL PLAN	NU158	MECHANICAL UNIT 158
GM	GENERAL QUANTITY	NU159	MECHANICAL UNIT 159
GN	GENERAL ROOM	NU160	MECHANICAL UNIT 160
GO	GENERAL SECTION	NU161	MECHANICAL UNIT 161
GP	GENERAL TREATMENT	NU162	MECHANICAL UNIT 162
GQ	GENERAL VENT	NU163	MECHANICAL UNIT 163
GR	GENERAL WINDOW	NU164	MECHANICAL UNIT 164
GS	GENERAL X-RAY	NU165	MECHANICAL UNIT 165
GT	GENERAL YIELD	NU166	MECHANICAL UNIT 166
GU	GENERAL ZONE	NU167	MECHANICAL UNIT 167
GV	GENERAL ZONE DETAIL	NU168	MECHANICAL UNIT 168
GW	GENERAL ZONE ELEMENT	NU169	MECHANICAL UNIT 169
GX	GENERAL ZONE FINISH	NU170	MECHANICAL UNIT 170
GY	GENERAL ZONE GROUP	NU171	MECHANICAL UNIT 171
GZ	GENERAL ZONE HATCH	NU172	MECHANICAL UNIT 172
HA	HALL AREA	NU173	MECHANICAL UNIT 173
HB	HALL DETAIL	NU174	MECHANICAL UNIT 174
HC	HALL ELEMENT	NU175	MECHANICAL UNIT 175
HD	HALL FINISH	NU176	MECHANICAL UNIT 176
HE	HALL GROUP	NU177	MECHANICAL UNIT 177
HF	HALL HATCH	NU178	MECHANICAL UNIT 178
HG	HALL INTERIOR	NU179	MECHANICAL UNIT 179
HH	HALL LAYOUT	NU180	MECHANICAL UNIT 180
HI	HALL MATERIAL	NU181	MECHANICAL UNIT 181
HJ	HALL NOTE	NU182	MECHANICAL UNIT 182
HK	HALL OFFICE	NU183	MECHANICAL UNIT 183
HL	HALL PLAN	NU184	MECHANICAL UNIT 184
HM	HALL QUANTITY	NU185	MECHANICAL UNIT 185
HN	HALL ROOM	NU186	MECHANICAL UNIT 186
HO	HALL SECTION	NU187	MECHANICAL UNIT 187
HP	HALL TREATMENT	NU188	MECHANICAL UNIT 188
HQ	HALL VENT	NU189	MECHANICAL UNIT 189
HR	HALL WINDOW	NU190	MECHANICAL UNIT 190
HS	HALL X-RAY	NU191	MECHANICAL UNIT 191
HT	HALL YIELD	NU192	MECHANICAL UNIT 192
HU	HALL ZONE	NU193	MECHANICAL UNIT 193
HV	HALL ZONE DETAIL	NU194	MECHANICAL UNIT 194
HW	HALL ZONE ELEMENT	NU195	MECHANICAL UNIT 195
HX	HALL ZONE FINISH	NU196	MECHANICAL UNIT 196
HY	HALL ZONE GROUP	NU197	MECHANICAL UNIT 197
HZ	HALL ZONE HATCH	NU198	MECHANICAL UNIT 198
IA	INTERIOR AREA	NU199	MECHANICAL UNIT 199
IB	INTERIOR DETAIL	NU200	MECHANICAL UNIT 200
IC	INTERIOR ELEMENT	NU201	MECHANICAL UNIT 201
ID	INTERIOR FINISH	NU202	MECHANICAL UNIT 202
IE	INTERIOR GROUP	NU203	MECHANICAL UNIT 203
IF	INTERIOR HATCH	NU204	MECHANICAL UNIT 204
IG	INTERIOR INTERIOR	NU205	MECHANICAL UNIT 205
IH	INTERIOR LAYOUT	NU206	MECHANICAL UNIT 206
II	INTERIOR MATERIAL	NU207	MECHANICAL UNIT 207
IJ	INTERIOR NOTE	NU208	MECHANICAL UNIT 208
IK	INTERIOR OFFICE	NU209	MECHANICAL UNIT 209
IL	INTERIOR PLAN	NU210	MECHANICAL UNIT 210
IM	INTERIOR QUANTITY	NU211	MECHANICAL UNIT 211
IN	INTERIOR ROOM	NU212	MECHANICAL UNIT 212
IO	INTERIOR SECTION	NU213	MECHANICAL UNIT 213
IP	INTERIOR TREATMENT	NU214	MECHANICAL UNIT 214
IQ	INTERIOR VENT	NU215	MECHANICAL UNIT 215
IR	INTERIOR WINDOW	NU216	MECHANICAL UNIT 216
IS	INTERIOR X-RAY	NU217	MECHANICAL UNIT 217
IT	INTERIOR YIELD	NU218	MECHANICAL UNIT 218
IU	INTERIOR ZONE	NU219	MECHANICAL UNIT 219
IV	INTERIOR ZONE DETAIL	NU220	MECHANICAL UNIT 220
IW	INTERIOR ZONE ELEMENT	NU221	MECHANICAL UNIT 221
IX	INTERIOR ZONE FINISH	NU222	MECHANICAL UNIT 222
IY	INTERIOR ZONE GROUP	NU223	MECHANICAL UNIT 223
IZ	INTERIOR ZONE HATCH	NU224	MECHANICAL UNIT 224
JA	JUNCTION AREA	NU225	MECHANICAL UNIT 225
JB	JUNCTION DETAIL	NU226	MECHANICAL UNIT 226
JC	JUNCTION ELEMENT	NU227	MECHANICAL UNIT 227
JD	JUNCTION FINISH	NU228	MECHANICAL UNIT 228
JE	JUNCTION GROUP	NU229	MECHANICAL UNIT 229
JF	JUNCTION HATCH	NU230	MECHANICAL UNIT 230
JG	JUNCTION INTERIOR	NU231	MECHANICAL UNIT 231
JH	JUNCTION LAYOUT	NU232	MECHANICAL UNIT 232
JI	JUNCTION MATERIAL	NU233	MECHANICAL UNIT 233
JJ	JUNCTION NOTE	NU234	MECHANICAL UNIT 234
JK	JUNCTION OFFICE	NU235	MECHANICAL UNIT 235
JL	JUNCTION PLAN	NU236	MECHANICAL UNIT 236
JM	JUNCTION QUANTITY	NU237	MECHANICAL UNIT 237
JN	JUNCTION ROOM	NU238	MECHANICAL UNIT 238
JO	JUNCTION SECTION	NU239	MECHANICAL UNIT 239
JP	JUNCTION TREATMENT	NU240	MECHANICAL UNIT 240
JQ	JUNCTION VENT	NU241	MECHANICAL UNIT 241
JR	JUNCTION WINDOW	NU242	MECHANICAL UNIT 242
JS	JUNCTION X-RAY	NU243	MECHANICAL UNIT 243
JT	JUNCTION YIELD	NU244	MECHANICAL UNIT 244
JU	JUNCTION ZONE	NU245	MECHANICAL UNIT 245
JV	JUNCTION ZONE DETAIL	NU246	MECHANICAL UNIT 246
JW	JUNCTION ZONE ELEMENT	NU247	MECHANICAL UNIT 247
JX	JUNCTION ZONE FINISH	NU248	MECHANICAL UNIT 248
JY	JUNCTION ZONE GROUP	NU249	MECHANICAL UNIT 249
JZ	JUNCTION ZONE HATCH	NU250	MECHANICAL UNIT 250
KA	KITCHEN AREA	NU251	MECHANICAL UNIT 251
KB	KITCHEN DETAIL	NU252	MECHANICAL UNIT 252
KC	KITCHEN ELEMENT	NU253	MECHANICAL UNIT 253
KD	KITCHEN FINISH	NU254	MECHANICAL UNIT 254
KE	KITCHEN GROUP	NU255	MECHANICAL UNIT 255
KE	KITCHEN HATCH	NU256	MECHANICAL UNIT 256
KF			

## Structural Notes

### Material Requirements:

- Concrete - Normal weight only, with 28 day compressive strengths of:
  - Slabs on grade.....3000 psi
  - Elevated slabs.....3000 psi
  - Footings.....3000 psi
  - Cast in place columns/beams.....5000 psi
- Steel
  - Reinforcing steel bars.....ASTM A615, Grade 60
  - Welded wire fabric.....A992, Fy = 50 ksi
  - Structural steel shapes.....ASTM A36, Fy = 36 ksi
  - Plates, angles, bars.....ASTM A36, Fy = 36 ksi
  - Pipe.....ASTM A53, Grade B, Fy = 35 ksi
  - Tubing.....ASTM A500, Grade B, Fy = 45 ksi
  - Anchor bolts.....ASTM F1554
  - High strength bolts.....ASTM A325
- Grout - 5000 psi, non-shrink

### Concrete Notes:

- Concrete work shall conform to all requirements of ACI 301 "Specification for Structural Concrete", unless noted modified as required for these contract documents.
- Concrete mix designs shall be established by the supplier in accordance with ACI specifications. Mix designs and back-up data shall be submitted to the engineer for approval prior to placement of concrete.
- All concrete shall be normal weight (150 pcf) unless noted otherwise on the plans.
- Air entraining agents conforming to ASTM C260 shall be added to all concrete exposed to freezing and thawing to produce 5% entrained air. Air-entraining admixtures shall not be added to concrete used for trowel finished interior slabs-on-grade or elevated slabs.
- Concrete for floor slabs shall have a maximum slump of 5 inches at the point of delivery.
- No calcium chloride shall be used in any concrete.
- "C.J." on slab and foundation plan indicates a key-formed construction joint or saw-cut contraction joint in the concrete slab. Saw-cut joints shall be 1/4 the slab depth (1" min.) and shall be installed within 24 hours of slab placement. "C.J."s, if not shown on plans, shall be spaced per note 8. "C.J."s shall be placed between isolation joints at columns. "C.J."s shall not be placed in elevated slabs. No control joints allowed in column center lines.
- Unless noted otherwise, all interior and exterior slabs on grade shown the structural drawings, including steps shall be 4" thick, of the following type:
  - ACI 260 Type B, Slab with shrinkage control reinforcement - Reinforce slab with 6 x 6 - W1.4 x W1.4 WWF supported at 1" from top of slab. WWF shall lap cross wires plus 2" (minimum at splices. "C.J."s are to divide the slab such that concrete within "C.J."s is not greater than 12'-0" in either direction.
- Temporary excavation for footings, piers, piles or other purposes shall be sloped and braced in accordance with OSHA requirements.
- Reinforcing steel placement shall be inspected by a qualified structural engineer in accordance with ACI 318 section 1.3.
- Provide bar supports and spacers in accordance with ACI 315 "Details and Detailing of Concrete Reinforcing."
- Splices not shown on the drawings shall be subject to approval. Lap all tension bars a minimum of 24 bar diameters unless noted otherwise.
- Welding of reinforcing steel shall not be permitted except as authorized or directed by the structural engineer.
- Horizontal reinforcement in footings and walls shall be continuous around corners.
- All field bending of reinforcing shall be done cold. Heating of bars is not permitted.
- Principal openings are shown on structural drawings. See architectural, mechanical, and electrical drawings for additional openings, embeds, sleeves, depressions, slopes, etc.
- Unless noted otherwise, all openings shall be reinforced with (2) #5 bars, all sides, extended a minimum of 3'-0" beyond opening.
- Provide a minimum of (2) #4 bars, 4'-0" long at reentrant corners of slabs-on grade and elevated slabs, centered about corner, unless noted otherwise.
- All debris shall be removed from forms prior to placement of concrete.
- Unless noted otherwise, vertical control joints in slab walls and retaining walls shall be placed no more than 25'-0" apart and shall be 3/4" deep "V" chamfered on both sides. Construction joints shall occur at control joints and shall be keyed. 50% of the specified horizontal reinforcement shall stop 3" each side of the control joint.
- Foundation walls shall be laterally braced until concrete has attained the specified design strength and all excavations are properly backfilled.
- Minimum concrete cover for cast-in-place concrete reinforcement:
  - Concrete cast against and permanently exposed to earth.....3 inches
  - Concrete exposed to earth or weather:
    - No. 6 bars and larger.....2 inches
    - No. 5 bars and smaller.....1 1/2 inches
  - Concrete not exposed to weather or in contact with ground:
    - Slabs, walls, joists (No. 11 bars and smaller).....3/4 inches
    - Beams, Columns (All reinforcement).....1 1/2 inches
- Refer to geotechnical engineer's report for subgrade preparation including crushed aggregate base and vapor barrier requirements and recommendations exceeding any shown here.
- Concrete test reports shall be available at job site.
- All foundation and retaining walls shall be backfilled per geotechnical engineer's recommendations.

### Masonry Block Notes:

- Concrete masonry units shall conform to ACI C90, and run in a common running bond pattern with block offsets by 1/2 block length unless noted otherwise.
- All CMU shall possess a minimum compressive strength of 1900 psi per the minimum net area.
- Unless noted otherwise, all mortar shall be Type S. Architecturally required modifications shall take the following table into consideration.

#### PHYSICAL PROPERTIES OF MASONRY CEMENTS

Masonry Cement Type	N	S	M
Time of setting			
Initial set, minimum, hr.	2	1 1/2	1 1/2
Final set, maximum, hr.	24	24	24
Compressive strength (average of 3 cubes, min.)			
7 days, (psi)	500	1300	1800
28 days (psi)	900	2100	2900

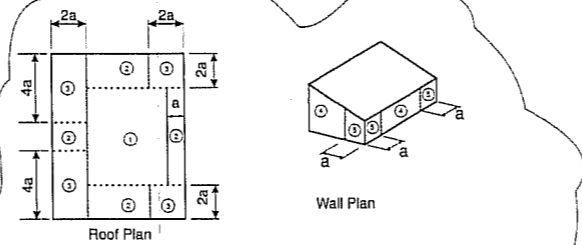
- Average compressive strength, f'm, shall be 1500 psi min. for CMU/mortar finished construction.
- Grout used to fill CMU shall conform to ASTM C476.
- All block cells with reinforcing bars must be grouted solid.
- All block cells below the level of the finished floor must be grouted solid.
- All CMU shall be reinforced horizontally using truss shaped joint reinforcement spaced no more than 16" O.C. vertically unless noted otherwise. Overlap joint reinforcement a minimum of 6 inches.
- Unless noted otherwise, all CMU walls shown in the structural drawings must be reinforced with #5 bars at 48" O.C. for the full height of the wall, placing the bar at the center of the block cells.
- Unless noted otherwise, #5 vertical bars shall be placed along openings as follows:
  - For openings 4'-0" and less.....One bar in the first cells adjacent to opening
  - For openings over 4'-0".....One bar in the first two cells adjacent to each side of the opening
- All bars placed at the sides of openings shall extend the full height of the wall.
- For openings over 4'-0", the portion of the wall above the opening shall be reinforced with #5 bars at 32" O.C. with the lower end of the bar terminating in the lintel.
- All cells at corners shall be reinforced.

### Structural Steel Notes:

- All steel detailing, fabrication, and erection shall be done in accordance with applicable AISC standards.
- All structural steel shall be painted using AISC approved primer.
- All bolted structural connections shall be made using 3/4" diameter high strength bolts conforming to the shown standard unless noted otherwise.
- Connections not detailed on the structural plans shall be designed by the steel fabricator and approved by the engineer of record.
- All welds shall be using E70XX electrodes by certified welders qualified by AWS standards to perform the type of work required.

## Component and Cladding Design Pressures

(Worst Case Only)



Zone	Area (ft <sup>2</sup> )		
	10	100	500
1	-23.6	-23.6	-23.6
2	-27.3	-25.5	-25.5
2'	-32.8	-31.0	-31.0
3	-36.5	-25.5	-25.5
3'	-51.3	-32.8	-32.8
All Zones	10.0	10.0	10.0
4	-23.6	-20.3	-18.1
5	-28.1	-22.7	-18.1
4 and 5	21.8	16.4	16.2

#### Florida Building Code Section 16 Requirements

Basic Wind Speed	110 mph, 3 Sec. Gust
Wind Importance Factor	1
Building Category	II
Wind Exposure	"B"
Enclosure Classification	"Enclosed"
Internal Pressure Coefficient (C <sub>pi</sub> )	+/- 0.18
End Zone Width	12.8 ft

### FOR STEM-WALL FOUNDATIONS NOT SUPPORTING EXTERIOR WALLS ONLY

#### CHART A VERTICAL BAR PLACEMENT FOR BLOCK WALL WITH CONCRETE FLOOR SLAB OR JOIST DESIGN

For floor joist design use bond beam with (1) #5 reinforced bar continuous for slab floor, pour into block with welded wire mesh. (See chart below)

"In all cases vertical bars shall be placed at either side of opening in wall and at each corner. Vertical bars shall be bent 24" into slab, each reinforced cell shall be filled with concrete."

\*\*Floor system to be placed before backfilling

H (Height of wall)	Width of Block	Vertical Bar Spacing
H <= 32'	8"-1	No. 5 @ 48" O.C.
32 < H <= 56	8"-1	No. 5 @ 48" O.C.
56 < H <= 72	8"-1	No. 5 @ 32" O.C.
72 < H <= 88	12"-1	No. 5 @ 32" O.C. with bond beam with (1) #5 at mid-height
	8"-1	No. 5 @ 24" O.C. "6" block may be used only if neither side of wall has soil bearing pressure. A bond beam with (1) #5 shall be provided at mid-height.
88 < H <= 120	12"-1	No. 5 @ 24" O.C. with bond beam with (1) #5 at mid-height
	8"-1	No. 5 @ 24" O.C. "6" block may be used only if neither side of wall has soil bearing pressure. A bond beam with (1) #5 shall be provided at mid-height.
96 < H <= 120	12"-1	No. 5 @ 16" O.C. (All cells filled with 3000 psi concrete) with bond beam with (1) #5 at mid-height
	8"-1	No. 5 @ 24" O.C. "6" block may be used only if neither side of wall has soil bearing pressure. A bond beam with (1) #5 shall be provided at mid-height.
120 < H <= 132	12"-1	No. 5 @ 8" O.C. (All cells filled with 3000 psi concrete) with bond beam with (1) #5 at mid-height
	8"-1	No. 5 @ 24" O.C. "6" block may be used only if neither side of wall has soil bearing pressure. A bond beam with (1) #5 shall be provided at mid-height.

Footnote 1 - This project requires that all CMU block below grade be a minimum 12" in width when brick is used on exterior

#### CHART B PHYSICAL PROPERTIES OF MASONRY CEMENTS

Masonry Cement Type	N	S	M
Time of setting			
Initial set, minimum, hr.	2	1 1/2	1 1/2
Final set, maximum, hr.	24	24	24
Compressive strength (average of 3 cubes, min.)			
7 days, (psi)	500	1300	1800
28 days (psi)	900	2100	2900

\*For the purpose of these plans, use grade "S" or "M"

## Structural Wall Specifications

Floor Level	Exterior Walls	Interior Walls
First	8" CMU with #5 verticals @ 24" O.C. max. Grout all cells Bond beam required at top and mid-height  AND 2 x 4 No. 2 SPF @ 16" O.C. 7/16" OSB Sheathing with 10d common nails spaced at 3" O.C. at panel edges and 6" O.C. in field.	NA

## Horizontal Structural Diaphragm Specifications

Floor Level	System Description
Roof	15/32" OSB Sheathing with 8d nails spaced at 4" O.C. Panel Edges 6" O.C. Field

### General Notes - Wood Framing

- Attach roof trusses to supports with Simpson Strong Tie HTS20 straps at each uplift and bearing point, U.N.O. Final attachment schedule of trusses to be provided with final review of truss package from truss manufacturer. Attachment shown here is based on assumed truss layout only is not considered valid without until truss package is complete.

Note: These plans comply with 2007 Florida Building Code with 2009 supplements.

#### Design Loads:

<b>Live Loads:</b>	
Roof:	20 psf
Handrails/Guardrails:	50 plf - All directions
Attic, uninhabited with storage:	200 lbs concentrated - Any direction
Private Rooms and Corridors:	20 psf
Public Rooms and Corridors:	40 psf
Stairs:	100 psf Uniform
	300 lbs on 4 in2 Concentrated
<b>Dead Loads:</b>	
Roof:	10 psf
<b>Wind Loads:</b>	
Wind Speed:	110 mph, 3 sec. gust/ 100 mph, sustained
Exposure Category:	"B"
Enclosure Classification:	"Enclosed"
Importance Factor:	1.0

The design plans and specifications submitted as part of the permit application are in compliance with the standards established in rule 62B-33.007, Florida Administrative Code.

The main wind-force resisting system has been designed in accordance with ASCE 7-05 Minimum Design Loads for Buildings and Other Structures, Section 6, to withstand the wind loads associated with a minimum 110 mph, 3 second gust, 100 mph sustained wind load.

Work scope has been designed and shall be constructed in accordance with:

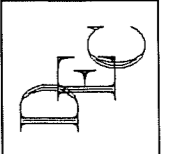
- Florida Building Code, Building (FBC-B) 2007 Edition with 2009 Supplements
- Florida Building Code, Plumbing (FBC-P) 2007 Edition with 2009 Supplements
- Florida Fire Prevention Code 2007 Edition

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MAY 20 2011

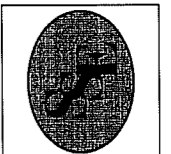
City of Tallahassee  
Building Inspection Division

STRUCTURAL ONLY  
THOMAS E. BEITELMAN  
LICENSE #51870

5/19/11



DEC Engineering, Inc.  
Civil Engineering  
William E. Beigel, P.E., President  
2487 Centerville Road Tallahassee, Florida 32308  
Phone: (904) 985-8280 Fax: (904) 985-7506  
Email: dec@decusd.com State Certification #4244

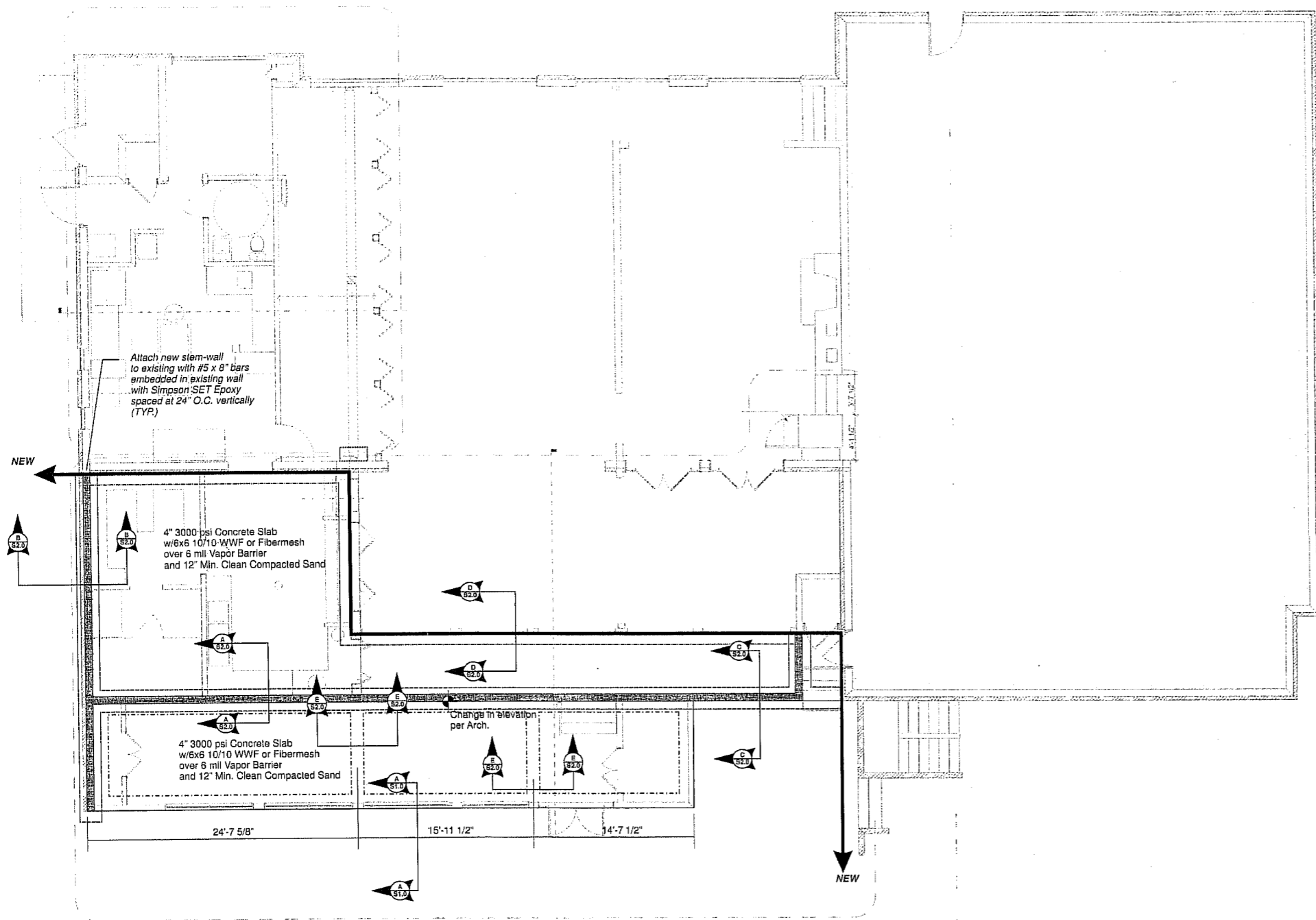


PROJECT: Kitchen and Dining Room Extension for Chi Omega Sorority at FSU  
TITLE: Specifications  
SCALE: As Shown  
Revision By: Date: Description:  
Designed: TEB  
Drawn: TEB  
Checked: TEB  
Date: 3/27/11

Sheet S0.0

No. 10S-041





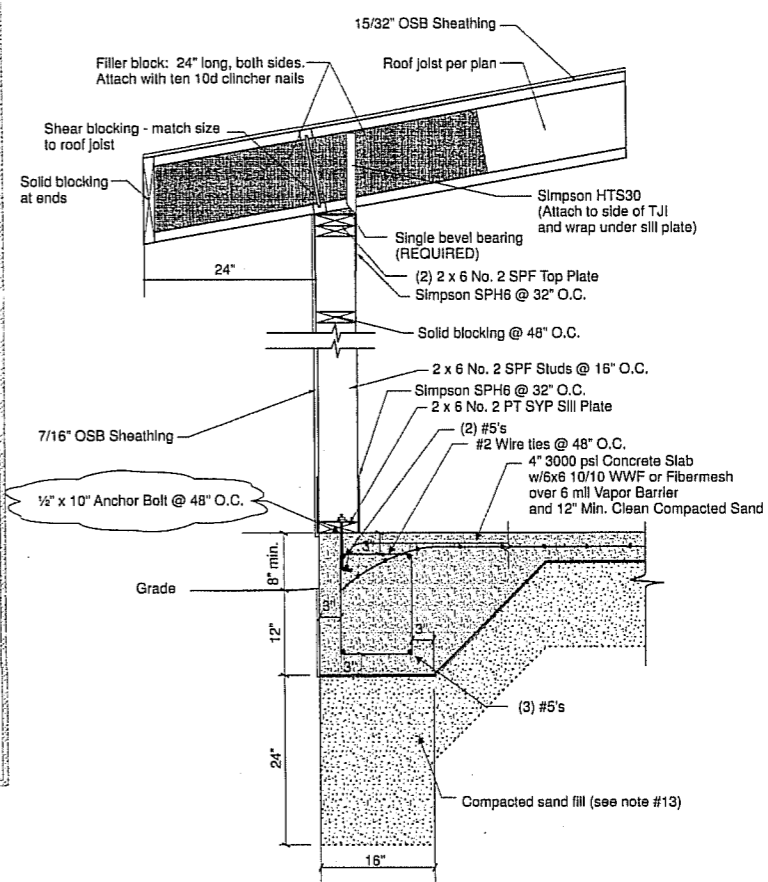
**Foundation Layout**

Scale: 3/16"=1'-0"

Verify all dimensions with Architectural requirements.

Additional Notes Pertaining Directly to This Project:

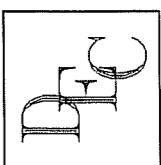
This foundation design is based on the recommendations provided by Earthworks Geotechnical, Inc., report #1CE-189 2/11



**Exterior Grade Beam - No Brick Ledge**  
Scale: 1"=1'-0"

**General Notes For Foundation**

- All construction conform to the 2007 Florida Building Code with 2009 supplements.
- In the event of a conflict between plans and the codes, the codes shall govern.
- Lot shall be landscaped to prevent the detention of surface water.
- Concrete: 3000 psi Steel: Grade 60
- All fill shall be compacted to 95% of maximum dry density as determined by the Modified Proctor Test.  
Definition:  
a. Compaction test will not be required when the fill is less than 12 inches in depth, the inspector's shall use best judgement.  
b. When the fill is 12 inches to 18 inches in depth, compaction test will be required only if the inspector's judgement is that the compaction is questionable.  
c. When the fill is 18 inches in depth or more, compaction test will be required.
- All splices in footing steel shall be lapped 40 bar diameters in concrete block and 30 bar diameters in monolithic slabs.
- Steel interior grade beams shall be spliced to steel in exterior grade beams to assure continuity of footing throughout structure.
- Exterior grade beams shall run continuous around the perimeter of the structure to assure continuity.
- All concrete slabs shall have control joints to control cracking spaced maximum of 15 feet in each direction.
- Soil shall be chemically treated for termites.
- The contractor shall verify all dimensions at the site prior to beginning construction.
- All reinforcing steel shall be located min. 3" from concrete surface.
- A clean compacted sand fill at least 18 inches thick shall be placed under all exterior and interior grade beams. Note: This may be omitted in areas that have at least 30 inches of clean compacted natural soil that has minimum bearing capacity of 2000 psf and is free of mulch, organic material and plastic clays and consists of at least 50% sand (ext.)
- Any organic material under foundation shall be removed prior to construction, unless otherwise specified.
- For stem walls 56" or higher, formwork shall be braced before backfilling.
- Concrete block shall have minimum compressive strength of 1500 psi (Grade N-1 or better) as per 2007 Florida Building Code.
- Additional #5 with filled cells at load bearing points on walls.



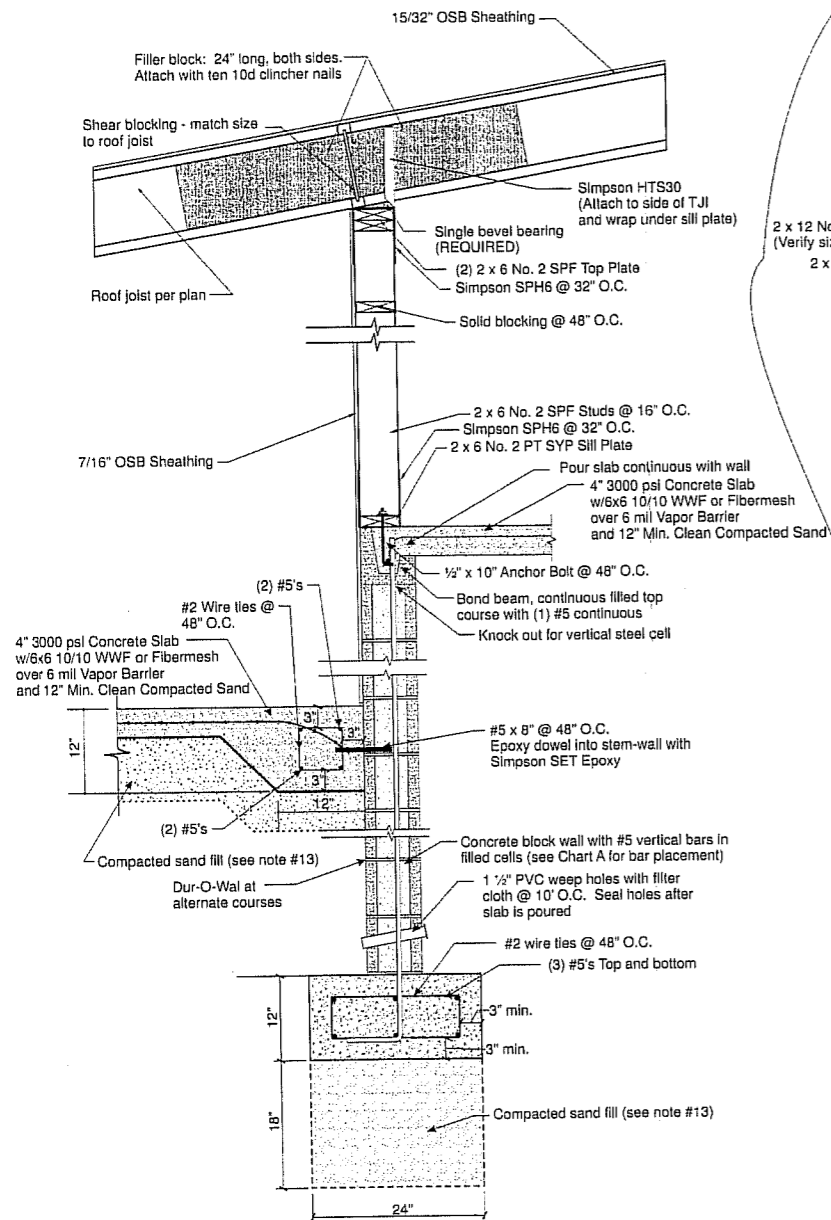
**DEC Engineering, Inc.**  
Civil Engineering  
William E. Longtin, P.E., President  
2467 Centerville Road Tallahassee, Florida 32308  
Phone: (904) 388-0288 Fax: (904) 388-7588  
Email: dec@decally.com State Certification #4244



**Sound Structures Engineering, Inc.**  
Structural Engineering, Inc.

<b>PROJECT:</b> Kitchen and Dining Room Extension for Chi Omega Sorority at FSU	
<b>SCALE:</b> Foundation Layout	<b>CLIENT:</b> Renegade Construction
File Name: 10S-041.cdr	Revision By: _____ Date: _____
Designed: TEB	Checked: TEB
Drawn: TEB	Date: 3/21/11

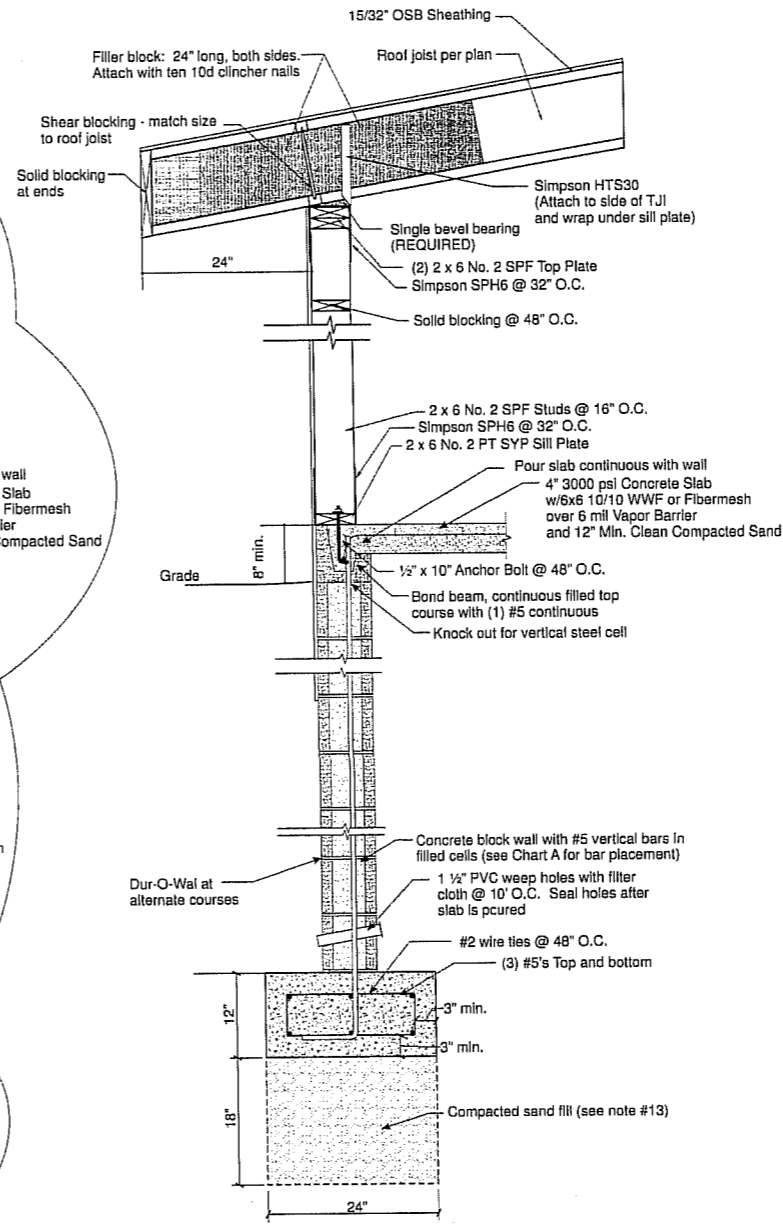
**RECEIVED RESUBMITTAL**  
MAY 20 2011  
City of Tallahassee  
Building Inspection Division  
STRUCTURAL ONLY  
THOMAS E. BEITELMAN  
LICENSE #51870  
*TEB*



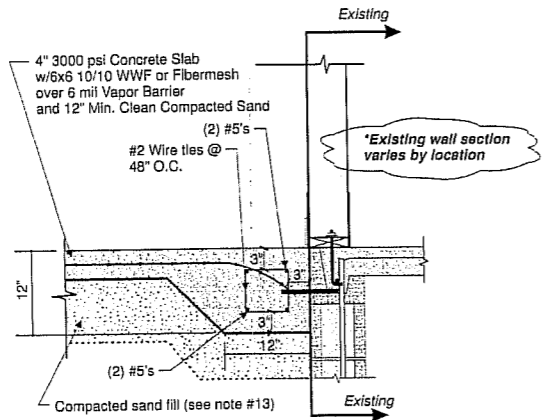
**Section at Slab Elevation Change**  
Scale: 1"=1'-0"



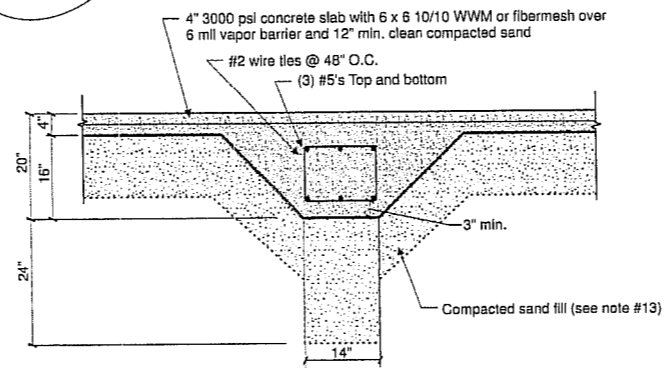
**Section at Building Edge**  
Scale: 1"=1'-0"



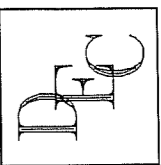
**Section at Front of Building - Higher Level**  
Scale: 1"=1'-0"



**Section at Slab Addition**  
Scale: 1"=1'-0"



**Interior Grade Beam**  
Scale: 1"=1'-0"



**DEC Engineering, Inc.**  
Civil Engineering  
Tallahassee, Florida 32308  
Phone: (904) 385-6200 Fax: (904) 306-7506  
E-mail: dec@decus.com State Certification #4244



**Sound Structures Engineering, Inc.**  
Structural Engineering, Inc.

**PROJECT:** Kitchen and Dining Room Extension for Chi Omega Sorority at FSU

**CLIENT:** Renegade Construction

Revision	By	Date	Description

**SCALE:** Varies

**TITLE:** Details

File Name: 10S-041.cdr

Designed: TEB

Drawn: TEB

Checked: TEB

Date: 3/21/11

Sheet S2.0

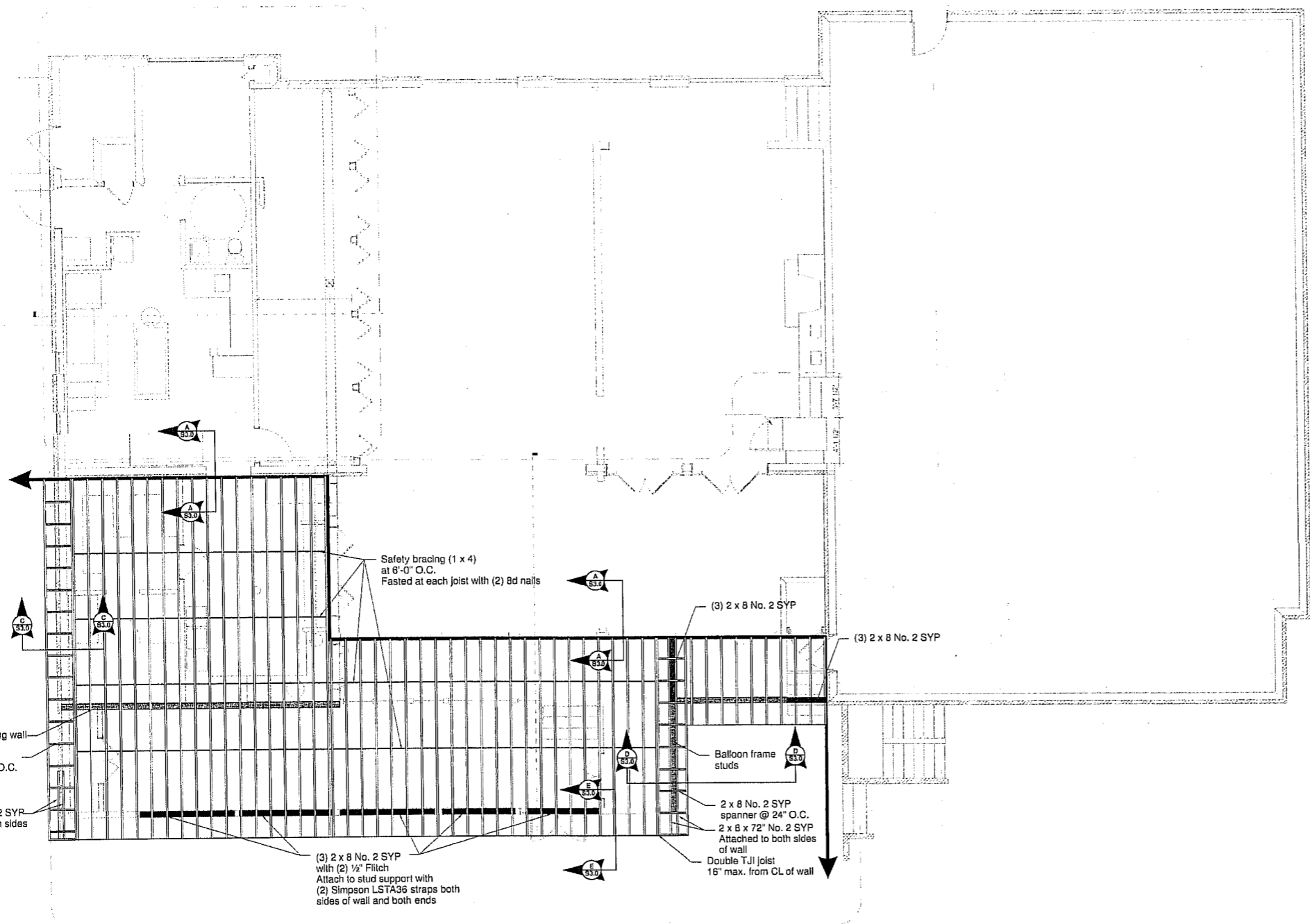
No. 10S-041

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MAY 20 2011  
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Building Inspection Division

STRUCTURAL ONLY  
THOMAS E. BEITELMAN  
LICENSE #51870

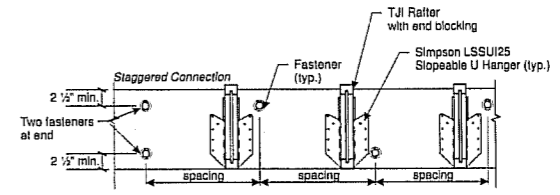
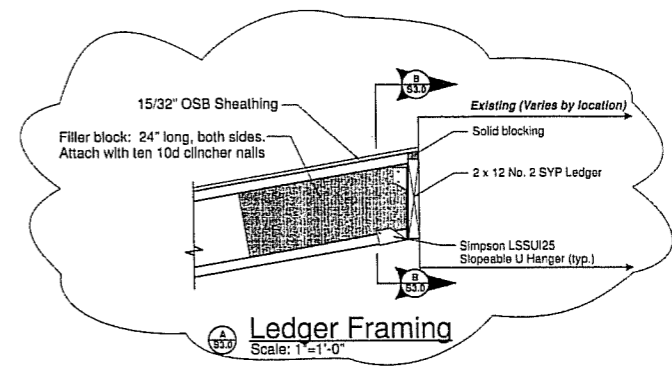
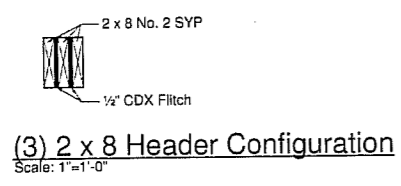
*TEB*

City of Tallahassee Building Inspection Division, Inc. 2011

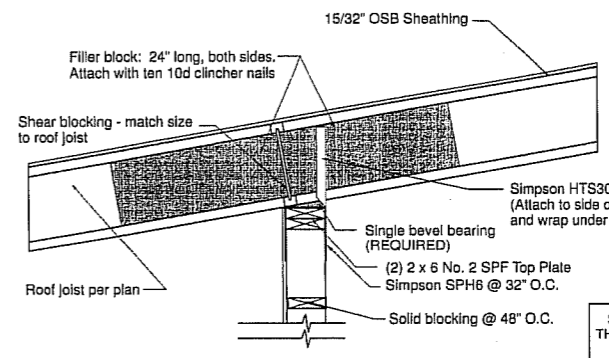
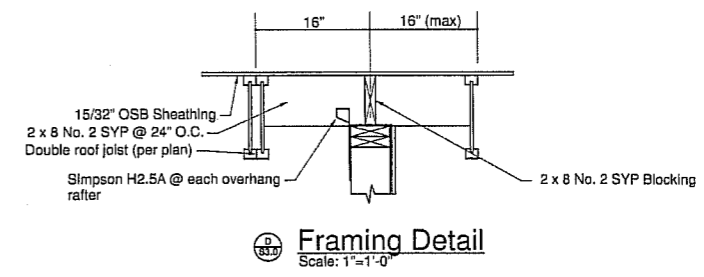
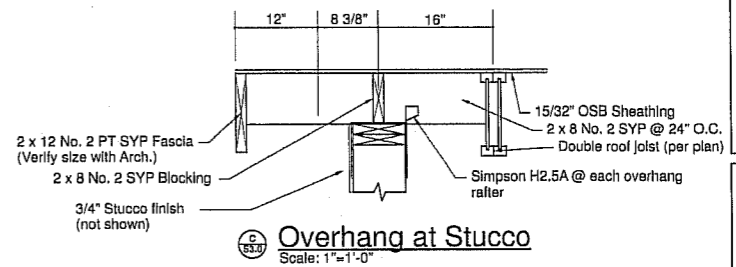


**Header and Roof Framing Layout**  
Scale: 3/16"=1'-0"

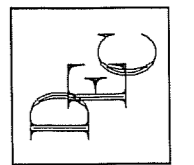
- Notes:
- 1 - Verify all dimensions with Architectural requirements.
  - 2 - All roof joists are 11 7/8" TJI110 spaced @ 16" O.C. max.



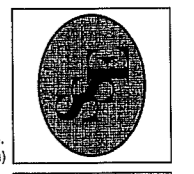
- Notes:
- 1 - Use 1/2" x 6" Titen HD Bolts through masonry
  - Use 1/2" x 4" Lag Bolts through wood construction
  - 2 - Spacing = 12" O.C. Max.



**RECEIVED SUBMITTAL**  
MAY 20 2011  
City of Tallahassee  
BUILDING DEPARTMENT  
THOMAS E. BEITELMAN  
LICENSE #51870



**Sound Structures Engineering, Inc.**  
DEC Engineering, Inc.  
Civil Engineering  
William E. English, P.E., President  
2467 Centerville Road  
Tallahassee, Florida 32309  
Phone: (850) 386-6288 Fax: (850) 389-7666  
Email: dec@acttally.com State Certification #4244



**PROJECT:** Kitchen and Dining Room Extension for Chi Omega Sorority at FSU

Revision No.	Date	Description
1	5/16/11	Response to comments 5/12/11 with 5/16/11 amendments

**SCALE:** Varies

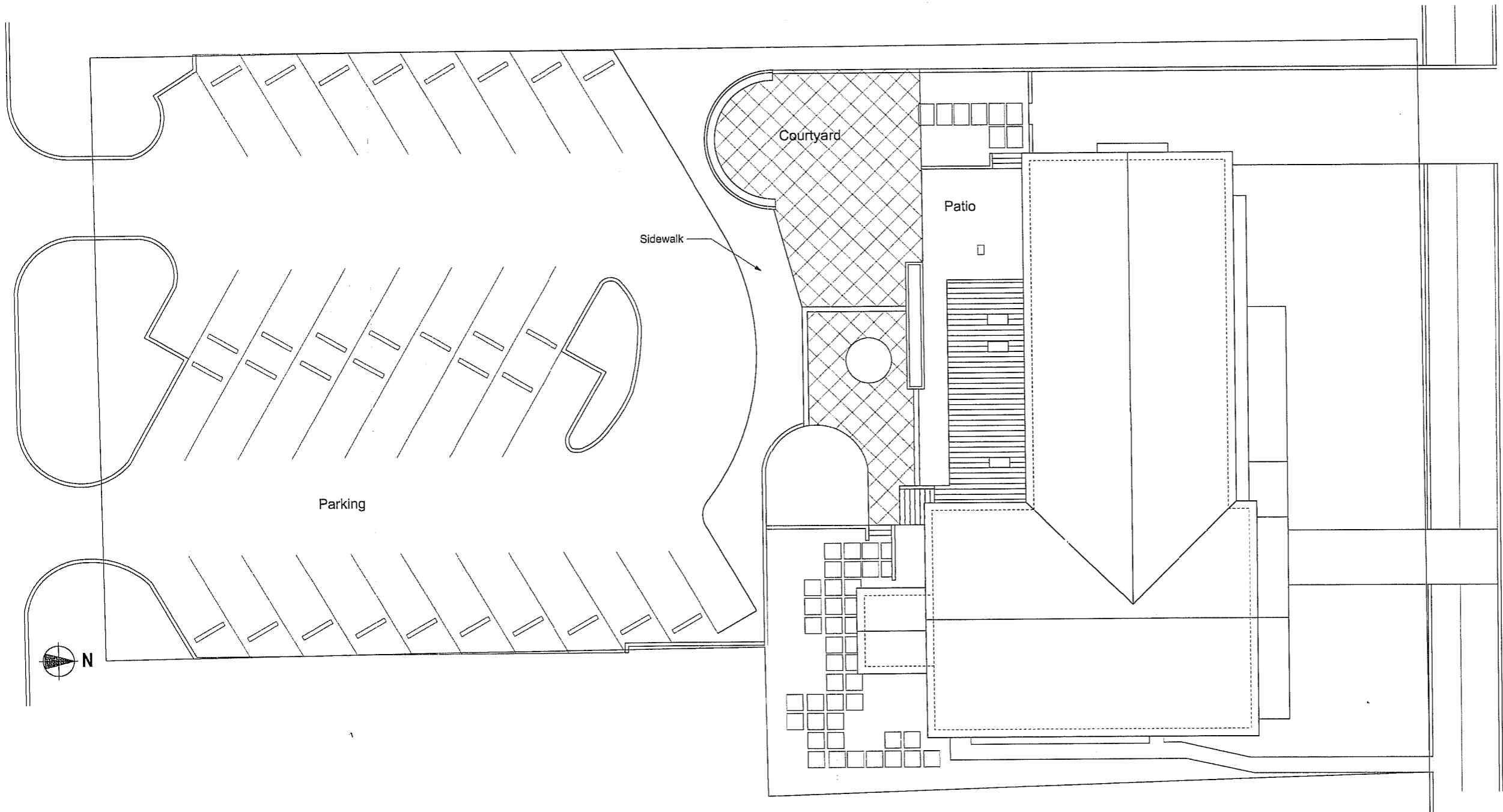
**CLIENT:** Renegade Construction

File Name	Assigned	Drawn	Checked	Date
10S-041.cdr	TEB	TEB	TEB	3/21/11

**Sheet** S3.0

**No.** 10S-041





CONSULTANTS

**Dining Room Expansion  
 for Gamma Chapter of  
 Chi Omega Sorority at FSU**  
 TALLAHASSEE, FLORIDA  
**Existing Site Plan**

REVISIONS


DATE = March 2011  
 DRAWN = RSH  
 CHECKED = RSH  
 JOB NO. = HDG 2010

DRAWING  
**A-1**

1 Existing Site Plan  
 Scale: 1" = 10'

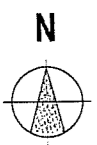
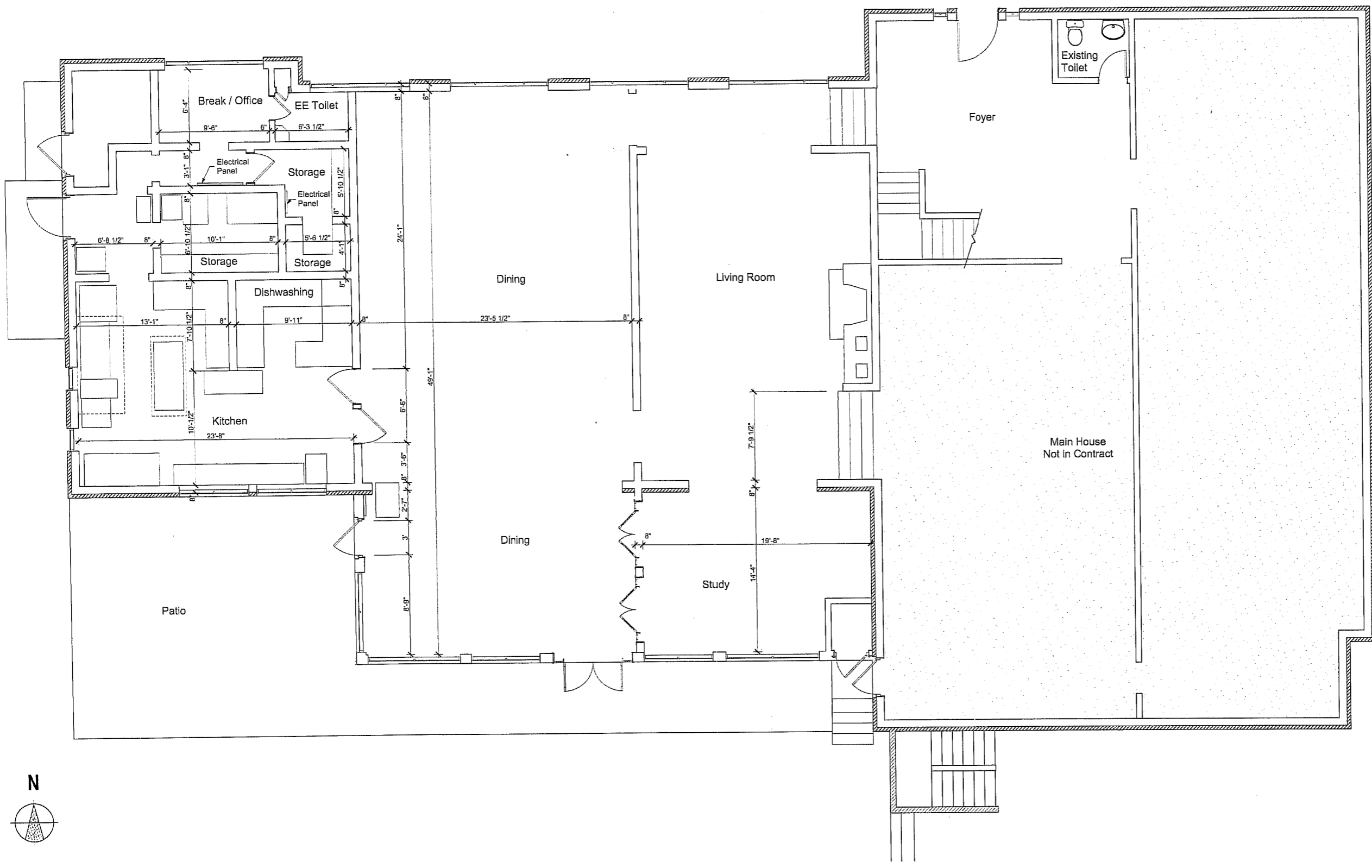
CONSULTANTS

**Dining Room Expansion  
 for Gamma Chapter of  
 Chi Omega Sorority at FSU**  
 TALLAHASSEE, FLORIDA  
**Existing Floor Plan**

REVISIONS


DATE      o March 2011  
 DRAWN    o RSH  
 CHECKED  o RSH  
 JOB NO.   o HDG 2919

DRAWING  
**A-2**



1 Existing Floor Plan  
 Scale: 1/4" = 1'-0"

CONSULTANTS

**Dining Room Expansion  
 for Gamma Chapter of  
 Chi Omega Sorority at FSU**  
 TALLAHASSEE, FLORIDA  
**Existing Elevations**

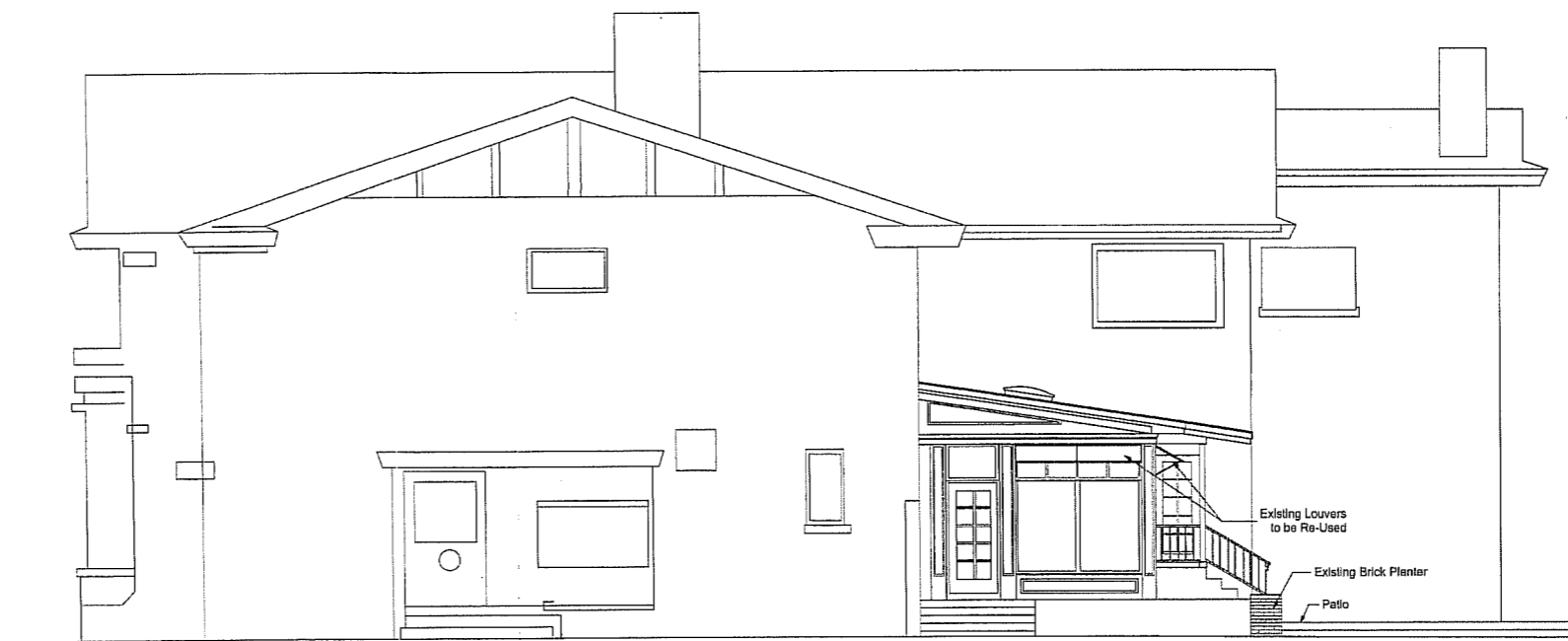
REVISIONS


DATE      ■ March 2011  
 DRAWN    ■ RSH  
 CHECKED  ■ RSH  
 JOB NO.   ■ HDG 2919

DRAWING  
**A-3**



**1** Existing Rear Elevation  
 Scale:



**2** Existing Side Elevation  
 Scale:

CONSULTANTS

**Dining Room Expansion  
for Gamma Chapter of  
Chi Omega Sorority at FSU**  
TALLAHASSEE, FLORIDA  
**Demolition Site Plan**

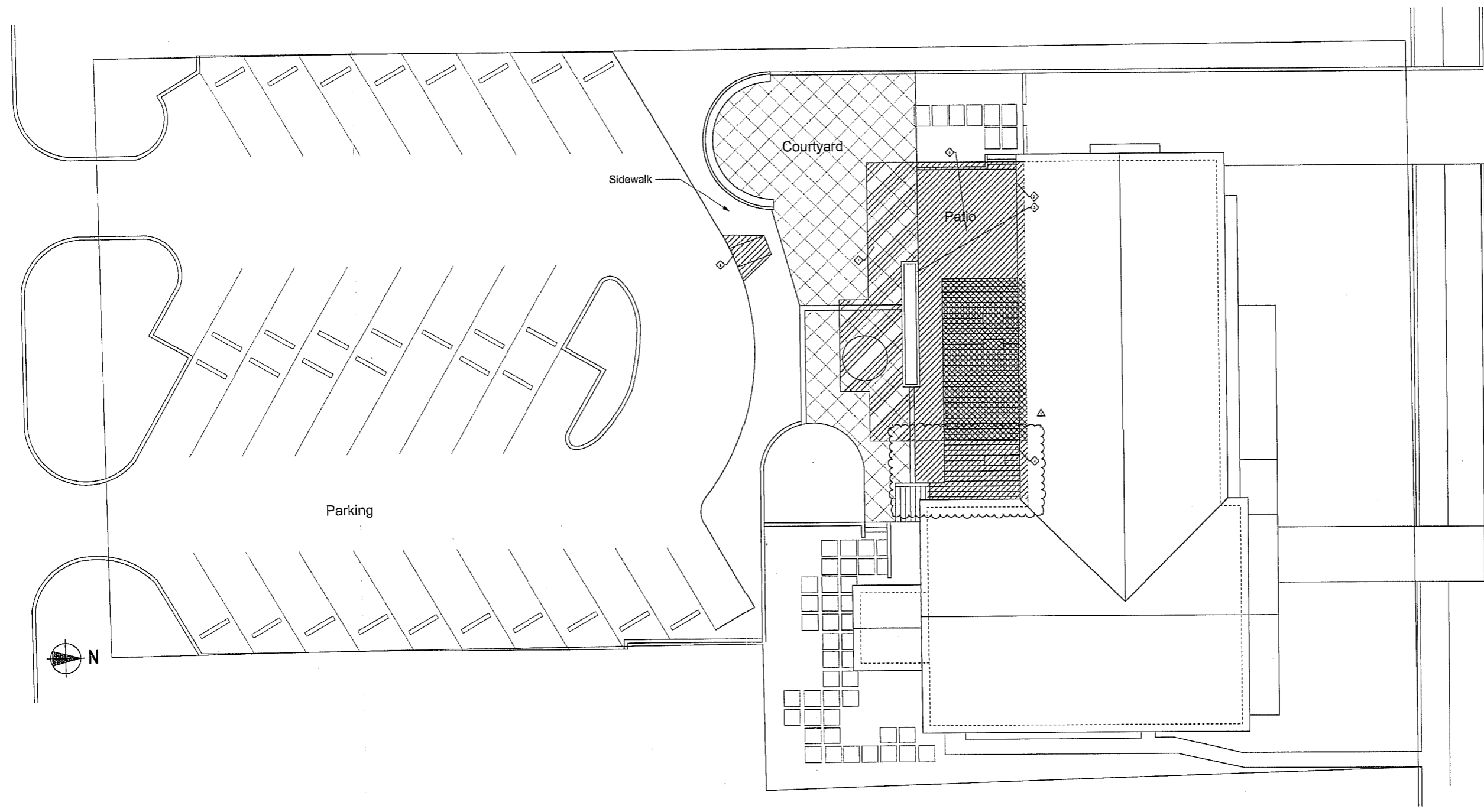
REVISIONS

NO.	DATE	DESCRIPTION
1	5/5/11	Building Review Comments

DATE      = March 2011  
DRAWN     = RSH  
CHECKED  = RSH  
JOB NO.   = HDG 2919

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DRAWING  
**A-4**



1 Demolition Site Plan  
Scale: 1" = 10'

**GENERAL NOTES**

- CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS NECESSARY FOR THE DEMOLITION OF AREAS INDICATED BY HATCHING.
- CONTRACTOR TO COMPLY WITH THE APPROPRIATE AGENCIES AND REGULATIONS GOVERNING THE DISPOSAL OF DEMOLISHED MATERIALS.
- COORDINATE WITH CONTRACTOR AND OWNER TO DETERMINE ACCESS TO PROJECT AREAS AND FACILITATE CONTINUOUS DAILY OPERATIONS.
- OWNER ASSUMES NO RESPONSIBILITY FOR THE CONDITION OF AREAS TO BE SELECTIVELY DEMOLISHED.
- SURVEY EXISTING CONDITIONS AND CORRELATE WITH REQUIREMENTS INDICATED TO DETERMINE THE EXTENT OF SELECTIVE DEMOLITION REQUIRED
- PROCEED WITH SELECTIVE DEMOLITION SYSTEMATICALLY FROM HIGHER TO LOWER. COMPLETE SELECTIVE DEMOLITION OPERATIONS ABOVE EACH TIER BEFORE DISTURBING SUPPORTING MEMBERS BELOW.
- PROVIDE TEMPORARY PARTITIONS TO SEPARATE DEMOLISHED AREAS FROM OCCUPANT DAILY USE TO PROTECT FROM DEMOLITION AND CONSTRUCTION DEBRIS AND NOISE.
- CONTRACTOR REQUIRED TO KEEP WORK AREA AND ADJACENT SPACES, ESPECIALLY COMMON AREAS, CLEANED DAILY OF ALL CONSTRUCTION DEBRIS.
- CONTRACTOR TO EXERCISE CARE TO MINIMIZE ADDITIONAL DAMAGE TO AREAS NOT DESIGNATED FOR DEMOLITION. REPLACE AND REFINISH NEW ELEMENTS ADJOINING EXISTING ELEMENTS TO PROVIDE A SEAMLESS TRANSITION FROM CORNER TO CORNER.

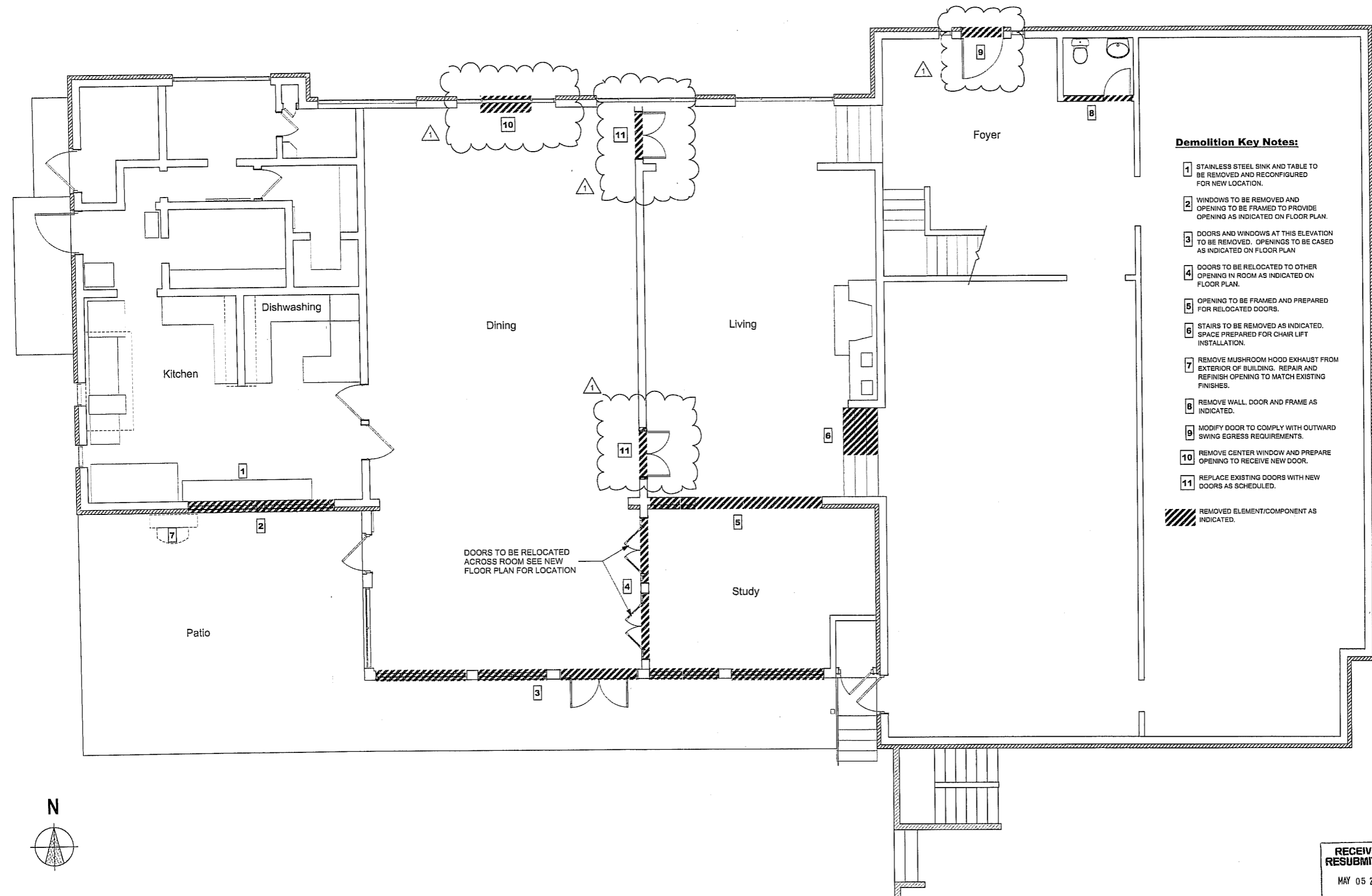
**LEGEND:**

- ◇ DEMOLISH LOWER CONCRETE DECK AS REQUIRED TO INSTALL NEW WORK.
- ◇ DEMOLISH UPPER CONCRETE DECK AS REQUIRED TO INSTALL NEW WORK.
- ◇ DEMOLISH EXISTING PLANTER
- ◇ REMOVE METAL ROOFING IN THE AREA SHOWN AS REQUIRE BY NEW WORK. PREPARE EXISTING SUBSTRATE TO RECEIVE NEW ROOF TIE IN AND NEW METAL ROOFING MATERIAL.
- ◇ DEMOLISH CONCRETE FOR THE INSTALLATION OF NEW H/C CURB CUT
- ◇ EXISTING GREASE TRAP TO BE RELOCATED. SEE PROPOSED SITE PLAN



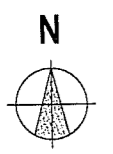
CONSULTANTS

**Dining Room Expansion  
for Gamma Chapter of  
Chi Omega Sorority at FSU**  
TALLAHASSEE, FLORIDA  
**Demolition Floor Plan**



- Demolition Key Notes:**
- 1 STAINLESS STEEL SINK AND TABLE TO BE REMOVED AND RECONFIGURED FOR NEW LOCATION.
  - 2 WINDOWS TO BE REMOVED AND OPENING TO BE FRAMED TO PROVIDE OPENING AS INDICATED ON FLOOR PLAN.
  - 3 DOORS AND WINDOWS AT THIS ELEVATION TO BE REMOVED. OPENINGS TO BE CASED AS INDICATED ON FLOOR PLAN.
  - 4 DOORS TO BE RELOCATED TO OTHER OPENING IN ROOM AS INDICATED ON FLOOR PLAN.
  - 5 OPENING TO BE FRAMED AND PREPARED FOR RELOCATED DOORS.
  - 6 STAIRS TO BE REMOVED AS INDICATED. SPACE PREPARED FOR CHAIR LIFT INSTALLATION.
  - 7 REMOVE MUSHROOM HOOD EXHAUST FROM EXTERIOR OF BUILDING. REPAIR AND REFINISH OPENING TO MATCH EXISTING FINISHES.
  - 8 REMOVE WALL, DOOR AND FRAME AS INDICATED.
  - 9 MODIFY DOOR TO COMPLY WITH OUTWARD SWING EGRESS REQUIREMENTS.
  - 10 REMOVE CENTER WINDOW AND PREPARE OPENING TO RECEIVE NEW DOOR.
  - 11 REPLACE EXISTING DOORS WITH NEW DOORS AS SCHEDULED.
- REMOVED ELEMENT/COMPONENT AS INDICATED.

DOORS TO BE RELOCATED ACROSS ROOM SEE NEW FLOOR PLAN FOR LOCATION



1 Demolition Plan  
Scale: 1/4" = 1'-0"

REVISIONS

NO.	DATE	DESCRIPTION
1	5/5/11	Building Review Comments

DATE     ▪ March 2011  
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JOB NO.  ▪ HDG 2819

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5-5-2011

DRAWING  
**A-5**

CONSULTANTS

**Dining Room Expansion  
 for Gamma Chapter of  
 Chi Omega Sorority at FSU**  
 TALLAHASSEE, FLORIDA  
**Site Plan**

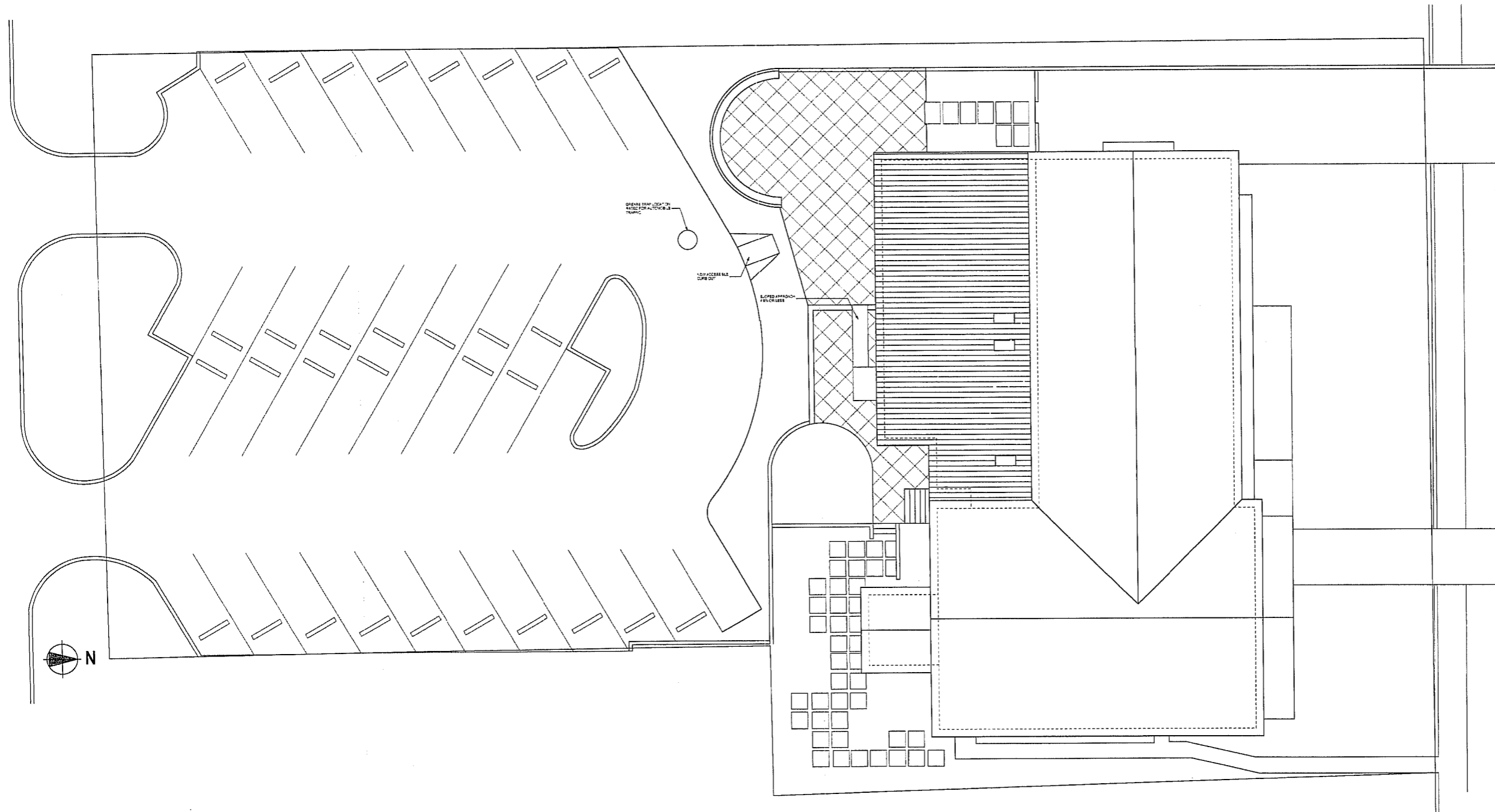
REVISIONS

NO.	DATE	DESCRIPTION

DATE        = March 2011  
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 CHECKED   = RSH  
 JOB NO.    = HDG 2919

DRAWING

**A-6**



1 Proposed Site Plan  
 Scale: 1" = 10'

CONSULTANTS

**Dining Room Expansion  
for Gamma Chapter of  
Chi Omega Sorority at FSU**  
TALLAHASSEE, FLORIDA  
**Life Safety Plan**

REVISIONS

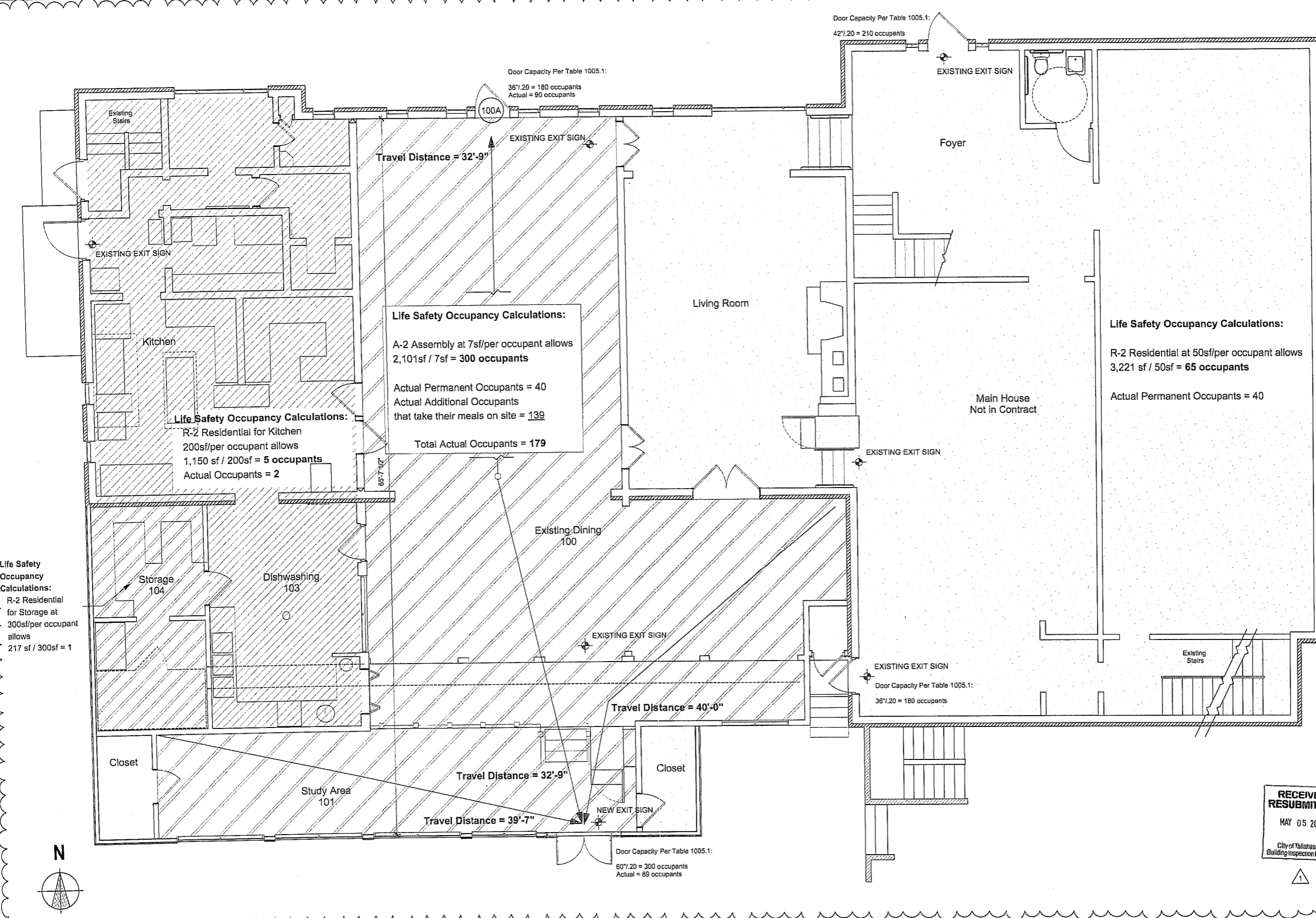
NO.	DATE	DESCRIPTION
1	5/5/11	Building Review Comments

DATE     ▪ March 2011  
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CHECKED ▪ RSH  
JOB NO.   ▪ HDG 2919

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Building Inspection Division

*[Signature]*  
5-5-2011

DRAWING  
**A-7**



**Life Safety Occupancy Calculations:**  
A-2 Assembly at 7sf/per occupant allows  
2,101sf / 7sf = **300 occupants**  
  
Actual Permanent Occupants = 40  
Actual Additional Occupants  
that take their meals on site = **139**  
  
Total Actual Occupants = **179**

**Life Safety Occupancy Calculations:**  
R-2 Residential for Kitchen  
200sf/per occupant allows  
1,150 sf / 200sf = **5 occupants**  
Actual Occupants = **2**

**Life Safety Occupancy Calculations:**  
R-2 Residential for Storage at  
300sf/per occupant allows  
217 sf / 300sf = **1**

1 Life Safety Plan  
Scale: 1/4" = 1'-0"

CONSULTANTS

**Dining Room Expansion  
for Gamma Chapter of  
Chi Omega Sorority at FSU**  
TALLAHASSEE, FLORIDA  
**Floor Plan**

REVISIONS

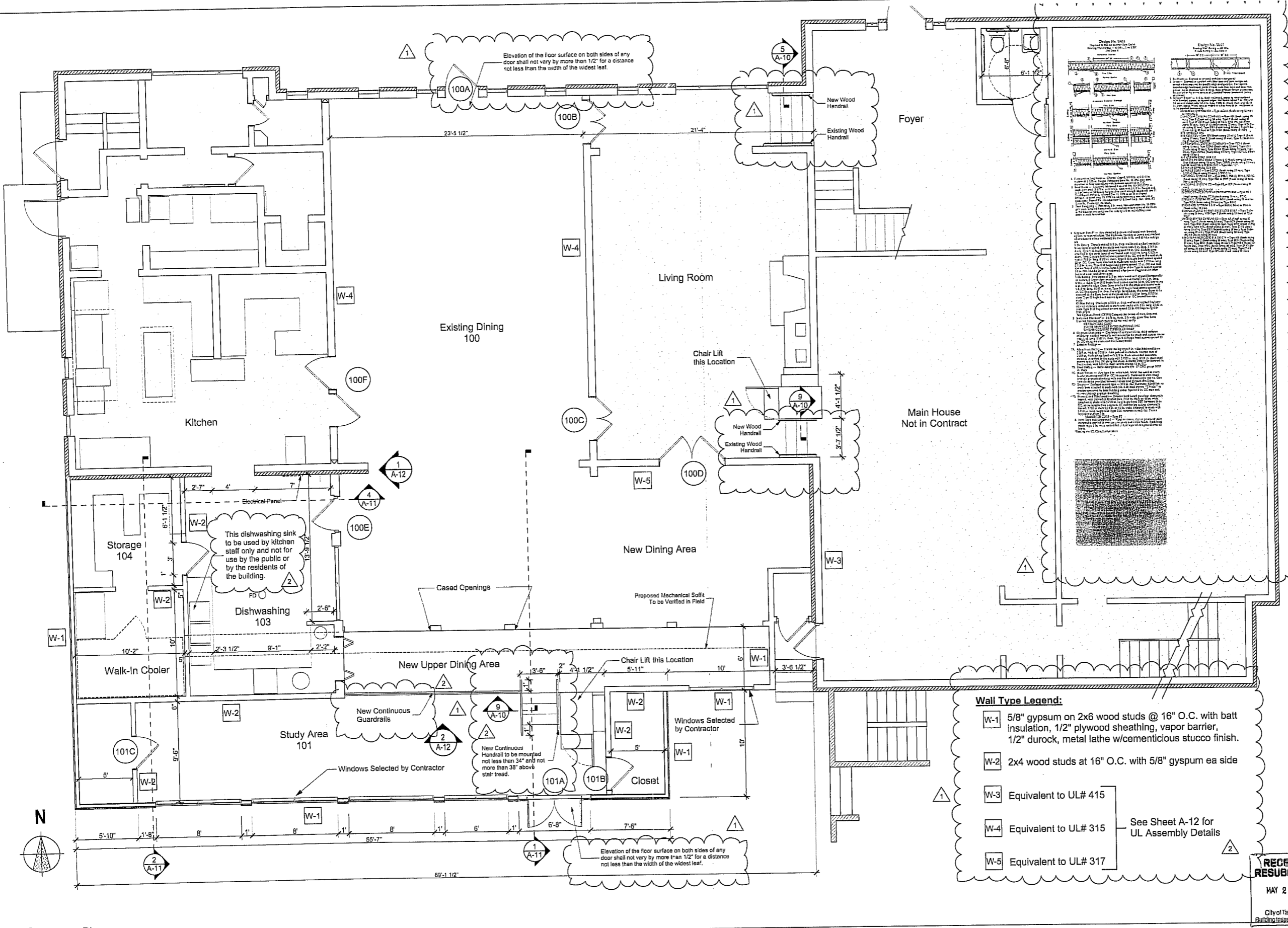
1	5/6/11	Building Review Comments
2	5/16/11	Building Review Comments

DATE = March 2011  
DRAWN = RSH  
CHECKED = RSH  
JOB NO. = HDG 2919

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5.11.2011

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Building Inspection Division

DRAWING  
**A-8**



- Wall Type Legend:**
- W-1 5/8" gypsum on 2x6 wood studs @ 16" O.C. with batt insulation, 1/2" plywood sheathing, vapor barrier, 1/2" durock, metal lathe w/cementitious stucco finish.
  - W-2 2x4 wood studs at 16" O.C. with 5/8" gypsum ea side
  - W-3 Equivalent to UL# 415
  - W-4 Equivalent to UL# 315 — See Sheet A-12 for UL Assembly Details
  - W-5 Equivalent to UL# 317

1 Floor Plan  
Scale: 1/4" = 1'-0"

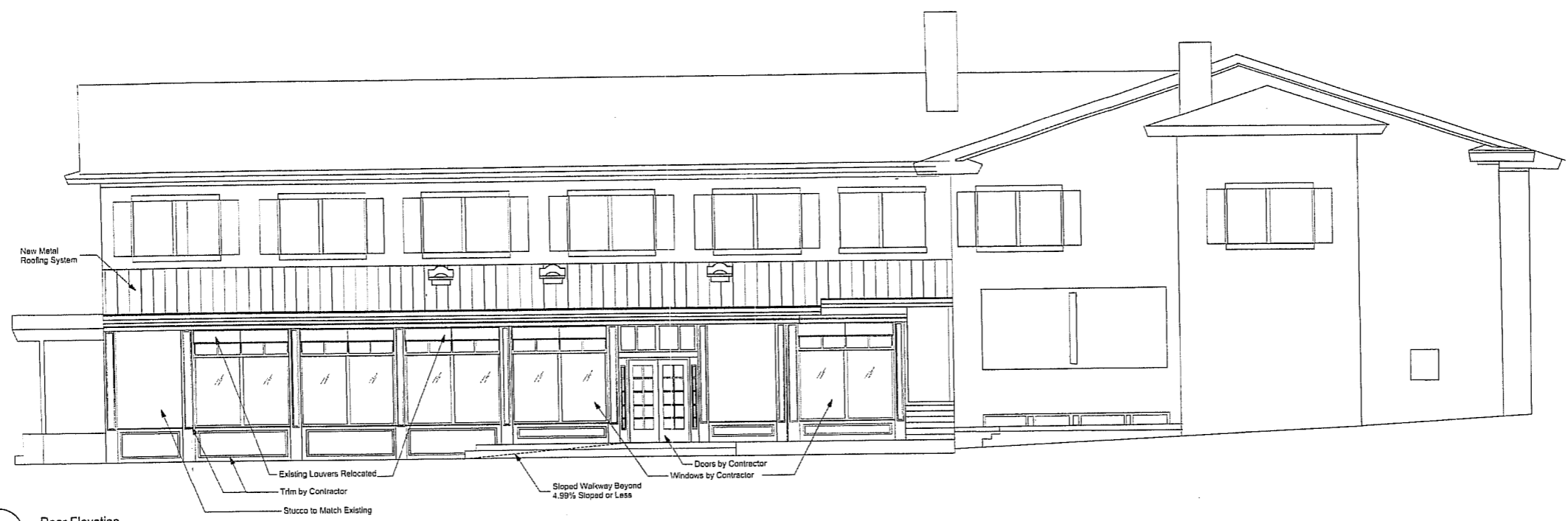
CONSULTANTS

**Dining Room Expansion  
 for Gamma Chapter of  
 Chi Omega Sorority at FSU**  
 TALLAHASSEE, FLORIDA  
**Exterior Elevations**

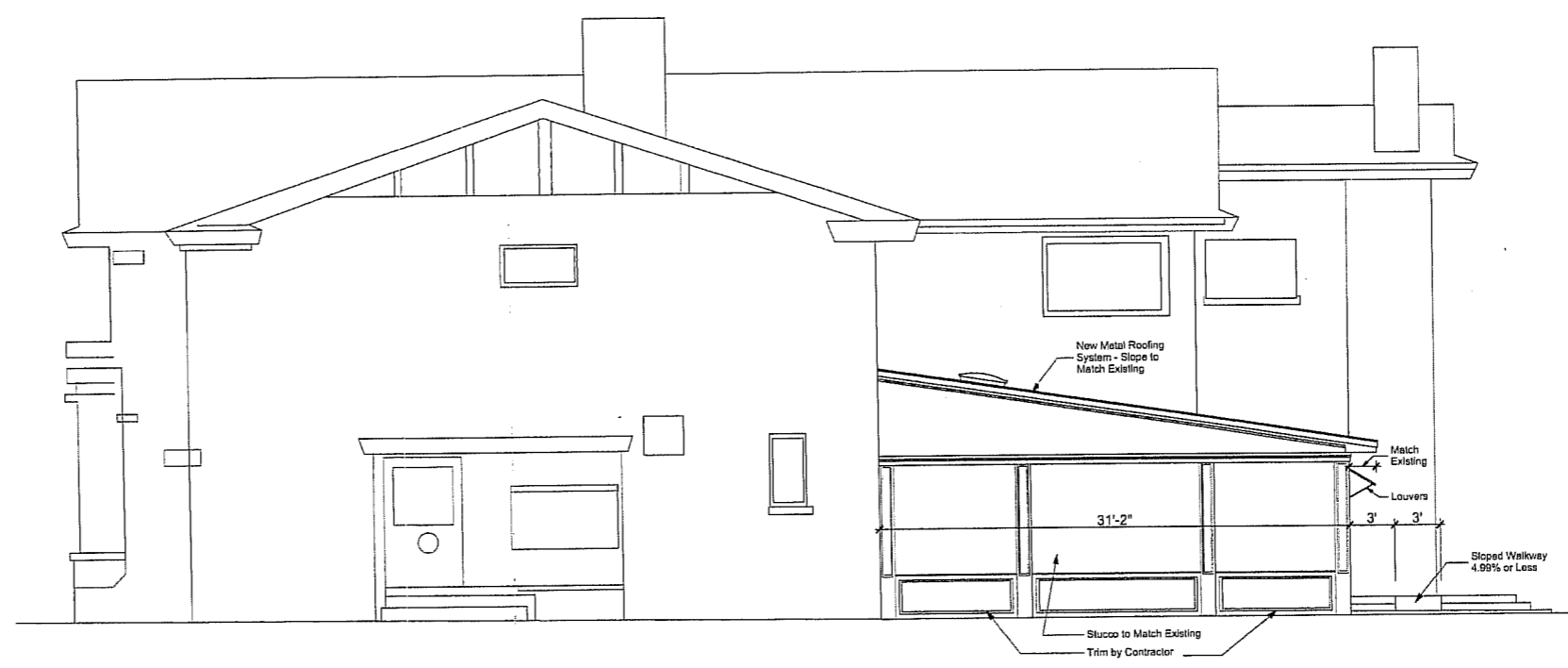
REVISIONS


DATE      ▣ March 2011  
 DRAWN    ▣ RSH  
 CHECKED  ▣ RSH  
 JOB NO.   ▣ HDG 2019

DRAWING  
**A-9**



**1** Rear Elevation  
 Scale:



**2** Side Elevation  
 Scale:

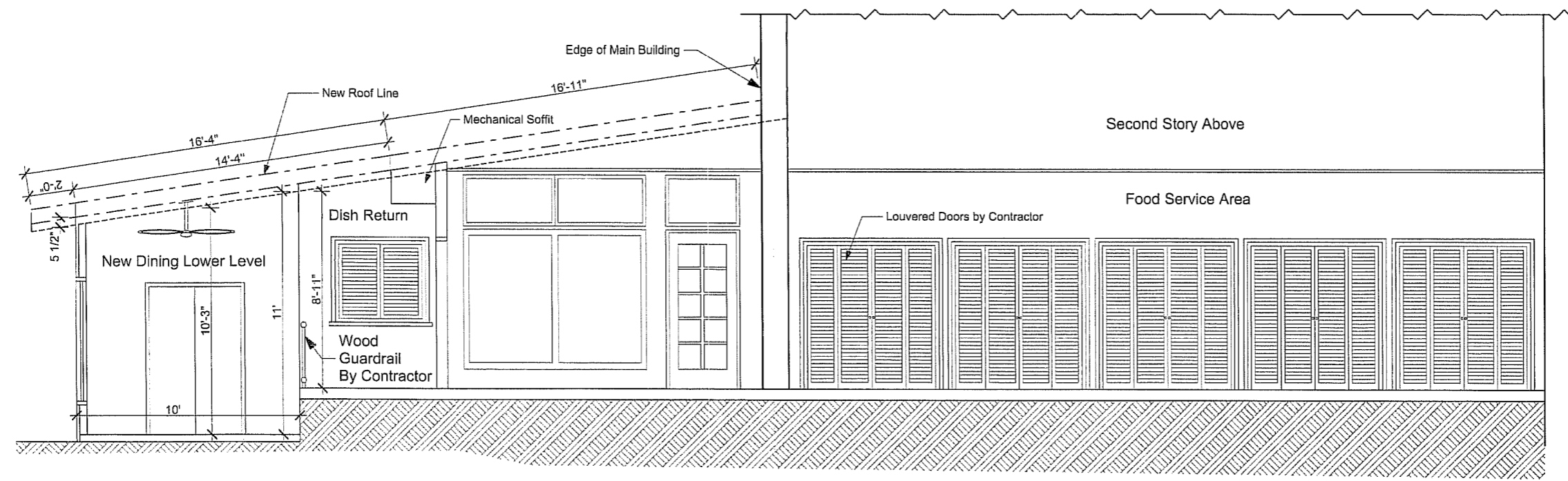


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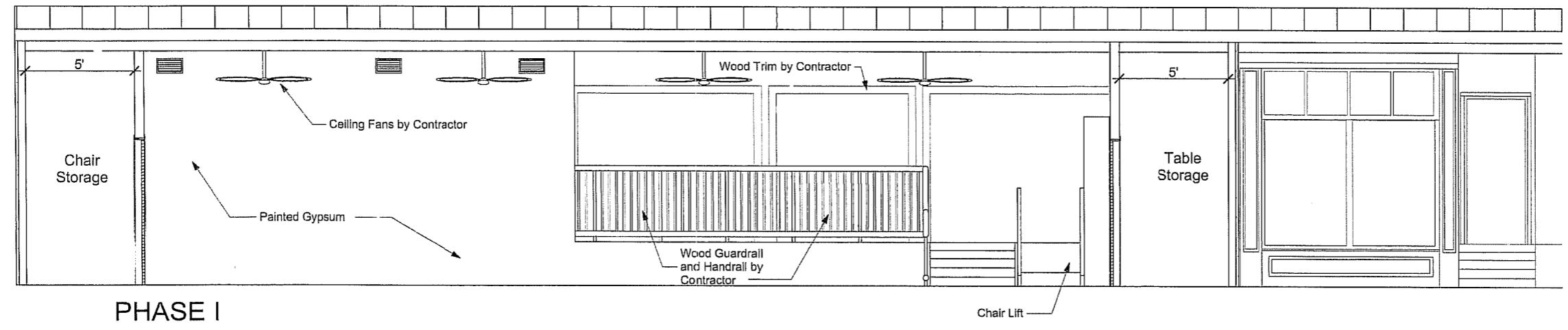
**Dining Room Expansion  
 for Gamma Chapter of  
 Chi Omega Sorority at FSU**  
 TALLAHASSEE, FLORIDA  
**Interior Elevations**

REVISIONS

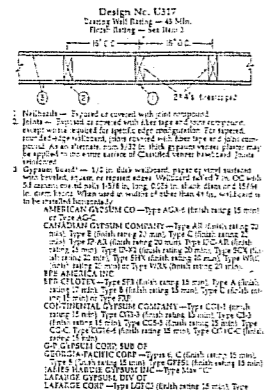
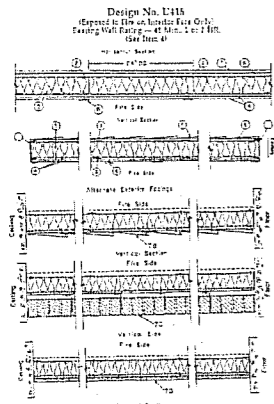

DATE = March 2011  
 DRAWN = RSH  
 CHECKED = RSH  
 JOB NO. = HDG 2919



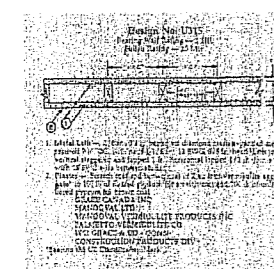
1 Dining Room Elevation  
 Scale: 3/8" = 1'-0"



2 Lower Dining Elevation  
 Scale: 3/8" = 1'-0"



1. Glass and glazing system shall be as specified in the schedule. The glazing system shall be installed in accordance with the manufacturer's instructions. The glazing system shall be tested in accordance with the manufacturer's instructions. The glazing system shall be tested in accordance with the manufacturer's instructions.
2. Hardware shall be as specified in the schedule. The hardware shall be installed in accordance with the manufacturer's instructions. The hardware shall be tested in accordance with the manufacturer's instructions.
3. The door shall be tested in accordance with the manufacturer's instructions. The door shall be tested in accordance with the manufacturer's instructions.
4. The frame shall be tested in accordance with the manufacturer's instructions. The frame shall be tested in accordance with the manufacturer's instructions.
5. The door and frame shall be tested in accordance with the manufacturer's instructions. The door and frame shall be tested in accordance with the manufacturer's instructions.
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### Door and Frame Schedule

Mark	Doors							Frame			Assembly				
	Type	Size	Th	Mat	Finish	Hdware	Type	Mat	Finish	Head	Jamb	Thresh	Label	Remarks	
100A	A	3'-0" x 6'-8"	1 3/4"	MTL	PTD	1	1	MTL	PTD	7/A-10	7/A-10	YES	1 HR	PROVIDE CLOSER	
100B	C	PAIR 2'-6" x 6'-8"	1 3/4"	MTL	PTD	4	4	MTL	PTD	8/A-10	8/A-10	YES	1 HR	PROVIDE CLOSER	
100C	C	PAIR 2'-6" x 6'-8"	1 3/4"	MTL	PTD	4	4	MTL	PTD	8/A-10	8/A-10	YES	1 HR	PROVIDE CLOSER	
100D	B	PAIR 3'-0" x 6'-8"	1 3/4"	MTL	PTD	2	3	MTL	PTD	8/A-10	8/A-10	YES	1 HR	PROVIDE CLOSER	
100E	I	EXISTING 3'-0" x 6'-8"	1 3/4"	MTL	PTD	1	1	MTL	PTD	--	--	YES	I		
100F	I	EXISTING 3'-0" x 6'-8"	1 3/4"	MTL	PTD	1	1	MTL	PTD	--	--	NO	I		
101A	A	PAIR 3'-0" x 6'-8"	1 3/4"	MTL	PTD	3	2	MTL	PTD	7/A-10	7/A-10	YES	1 HR	PROVIDE CLOSER	
101B	A	3'-0" x 6'-8"	1 3/4"	WD	PTD	2	1	MTL	PTD	8/A-10	8/A-10	NO	I		
101C	A	3'-0" x 6'-8"	1 3/4"	WD	PTD	2	1	MTL	PTD	8/A-10	8/A-10	NO	I		

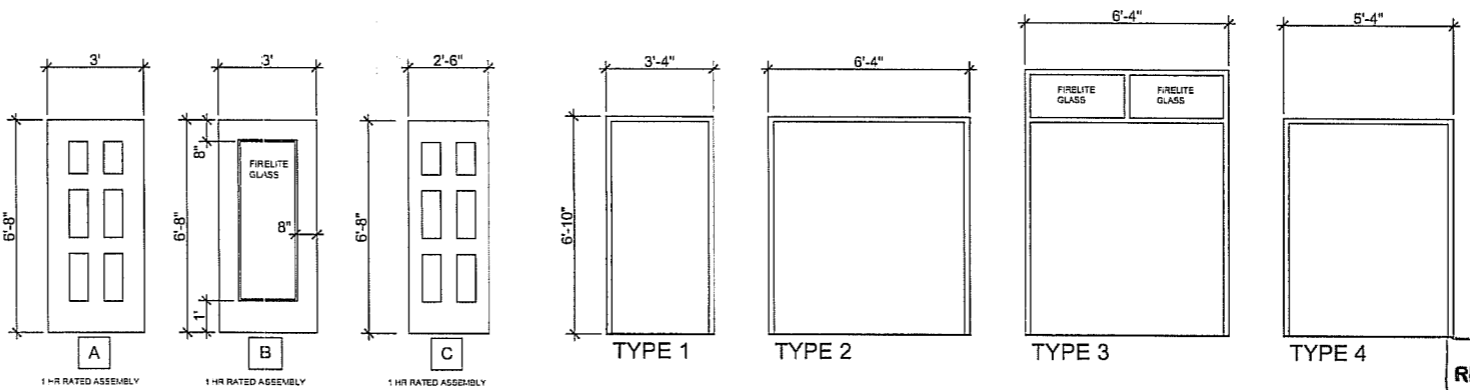
### Hardware Legend

HARDWARE SET #1	EXTERIOR ENTRY 5100	HARDWARE SET #3	EXTERIOR ENTRY 5100
3 EA. HINGES BB1191-4 1/2 X 4 1/2 N.R.P.	625	3 EA. HINGES BB1191-4 1/2 X 4 1/2 N.R.P.	625
1 CYLINDER	625	1 CYLINDER	625
1 DOOR STOP 473	625	1 DOOR STOP 473	625
1 DOORMA 5100 SERIES PANIC HARDWARE CONCEALED VERTICAL ROD	625	1 DOORMA 5100 LB x 5100 LB SERIES PANIC HARDWARE CONCEALED VERTICAL ROD	625
1 DOOR CLOSER 7801-PA	625	1 DOOR CLOSER 7801-PA	625
1 SET WEATHERSTRIPPING S88D-17 FT.	GREY	1 SET WEATHERSTRIPPING S88D-17 FT.	GREY
1 THRESHOLD 2005AV-36"	ALUM.	1 THRESHOLD 2005AV-36"	ALUM.

HARDWARE SET #2	PASSAGE ML2010	FINISH	HARDWARE SET #4	INTERIOR 5100
3 EA. HINGES BB1191-4 1/2 X 4 1/2 N.R.P.	625		3 EA. HINGES BB1191-4 1/2 X 4 1/2 N.R.P.	625
1 CYLINDER	625		1 CYLINDER	625
1 DOOR STOP 473	625		1 DOOR STOP 473	625
1 ML2000 SERIES PSM, CORBIN RUSSWIN	625		1 DOORMA 5100 LB x 5100 LB SERIES PANIC HARDWARE CONCEALED VERTICAL ROD	625
1 DOOR STOP 473	625		1 DOOR CLOSER 7801-PA	625
1 DOOR CLOSER 7801-PA	625		1 THRESHOLD 2005AV-36"	ALUM.

LEGEND REPRESENTS HARDWARE REQUIRED FOR EACH DOOR



FULL LITED FIRE RATED DOOR BASIS OF DESIGN:

Neenah Division  
 One Eggers Drive 164 North Lake Street  
 Two Rivers, WI 54241 Neenah, WI 54956  
 Phone: 920.793.1351 Phone: 920.722.6444  
 Fax: 920.793.2958 Fax: 920.722.0357  
 www.egggersindustries.com email: sales@egggersindustries.com

RECEIVED  
 RESUBMITTAL  
 MAY 20 2011  
 City of Tallahassee  
 Building Inspection Division

**HAMMOND**  
*Design*  
**GROUP, LLC**  
**ARCHITECTS**

5032 CAPITAL CIRCLE SW, SUITE 2 # 399  
 TALLAHASSEE, FLORIDA 32305  
 850-222-2032 PHONE  
 www.hamd-architects.com

CONSULTANTS

**Dining Room Expansion  
 for Gamma Chapter of  
 Chi Omega Sorority at FSU**  
 TALLAHASSEE, FLORIDA

**Schedules**

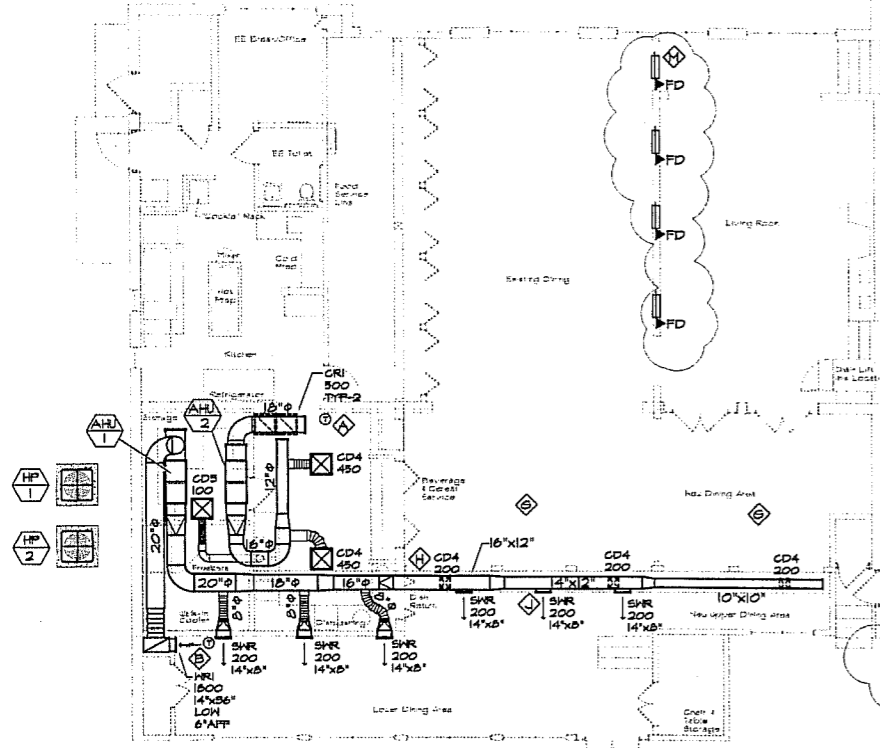
REVISIONS

1	5/5/11	Building Review Comments
2	5/18/11	Building Review Comments

DATE = March 2011  
 DRAWN = RSH  
 CHECKED = RSH  
 JOB NO. = HDG 2919

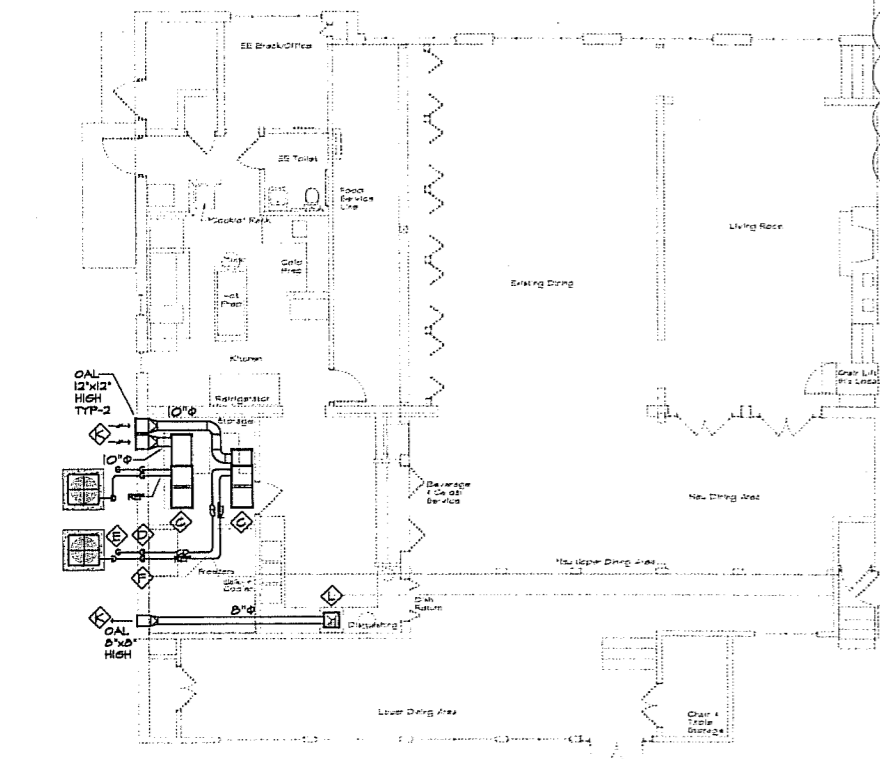
DRAWING  
**A-12**





**BUILDING ADDITION HEATING & AIR CONDITIONING PLAN**  
SCALE 1/8" = 1'-0"

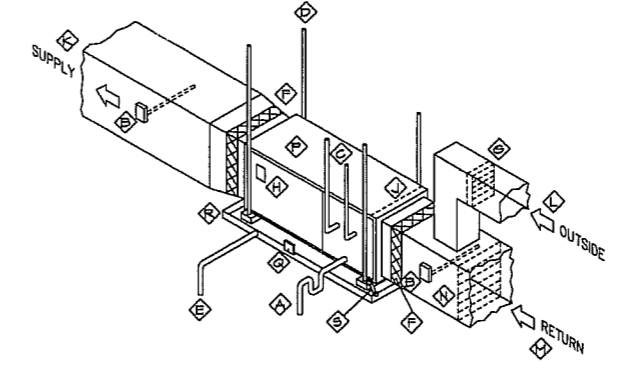
- ◇ DRAWING INFORMATION NOTES**
- HALL MOUNTED DIGITAL THERMOSTAT AS INDICATED IN SPECS, SCHEDULES & DETAILS.
  - ROUTE RETURN AIR DUCT INSIDE CHASE AS SHOWN WITH INSULATED FLEXIBLE BOX SIZES AT CLOSET OPENING. CONNECT HALL RETURN AIR GRILLE NEAR FINISHED FLOOR (6" AFF) OR DIRECTLY ABOVE BASEBOARD. GRILLE SHALL BE PAINTED TO MATCH ROOM HALL OR AS DETERMINED BY OWNER-ARCHITECT. GRILLE TO BE FILTERED TYPE WITH HINGED ACCESS.
  - AIR HANDLING UNIT MOUNTED ABOVE FINISHED CEILING PER DETAIL, SCHEDULES & SPECS.
  - ROUTE CONDENSATE DRAIN LINES INSIDE NEH HALL AREA AS SHOWN WITH PIPE SLEEVE & WEATHER-TIGHT SEAL AT GRADE LEVEL. COORDINATE WITH OTHER RELATED TRADES.
  - CONTRACTOR SHALL ROUTE CONDENSATE DRAIN AWAY FROM BUILDING WITH TURN DOWN ELBOW. DISCHARGE SHALL TERMINATE TO EARTH & NOT PAVEMENT OF CONCRETE PER 2007 FMC.
  - REFRIGERANT LINE SHALL BE ROUTED INSIDE EXTERIOR HALL AS SHOWN WITH PIPE SLEEVE & WEATHER-TIGHT SEAL AT GRADE LEVEL. COORDINATE WITH BUILDING FOUNDATION & FRAMING.
  - EXISTING MECHANICAL SYSTEMS SERVING THIS AREA SHALL REMAIN. VERIFY AT SITE PRIOR TO EFFORT.
  - ROUTE NEW SUPPLY AIR DUCT TRUNK MAIN NEXT TO OLD EXISTING EXTERIOR WALL. DUCT TO BE INSTALLED HIGH AS POSSIBLE. SEE ARCHITECTURAL SECTIONS FOR ADDITIONAL INFORMATION.
  - TYPICAL HIGH SIDEMALL REGISTER PAINTED TO MATCH SURROUNDING WALL-DUCT CHASE. ITEM SHALL BE DIRECTED DOWNWARD AT 15° FOR BETTER AIR PATTERN-MOVEMENT.
  - AIR INTAKE OR EXHAUST LOUVER HIGH IN EXTERIOR WALL WITH BUG/BIRD SCREEN, OPPOSED BLADE DAMPER, & SPRING TYPE BACK DRAFT DAMPER AS INDICATED IN DETAIL. PAINT LOUVER TO MATCH EXTERIOR WALL AS REQUIRED PER OWNER-ARCHITECT. OPENING SHALL BE FRAMED TO ASSURE STRUCTURAL SUPPORT & STABILITY.
  - DISHWASHER BY OTHERS SHALL CHANGE FROM CONVEYOR TYPE TO UNDER COUNTER RESIDENTIAL HIGH IMPACT STAINLESS STEEL TYPE. THIS UNIT WILL NOT REQUIRE SPECIAL HOOD EXHAUST, BUT WILL DEMAND CEILING-MOUNTED EXHAUST AS SHOWN WITH HALL MOUNTED FAN-SWITCH & 2 HOUR TIMER.
  - CONTRACTOR TO INSTALL NEW RUSKIN NET FREE FIRE DAMPERS WITH ACCESS DOORS PER UL & 2007 FMC IN EXISTING DUCTS. EXACT DUCT SIZE, LOCATION, & TYPE TO BE FIELD VERIFIED AT SITE PRIOR TO INSTALLATION. SEE DETAIL FOR ADDITIONAL INFORMATION.



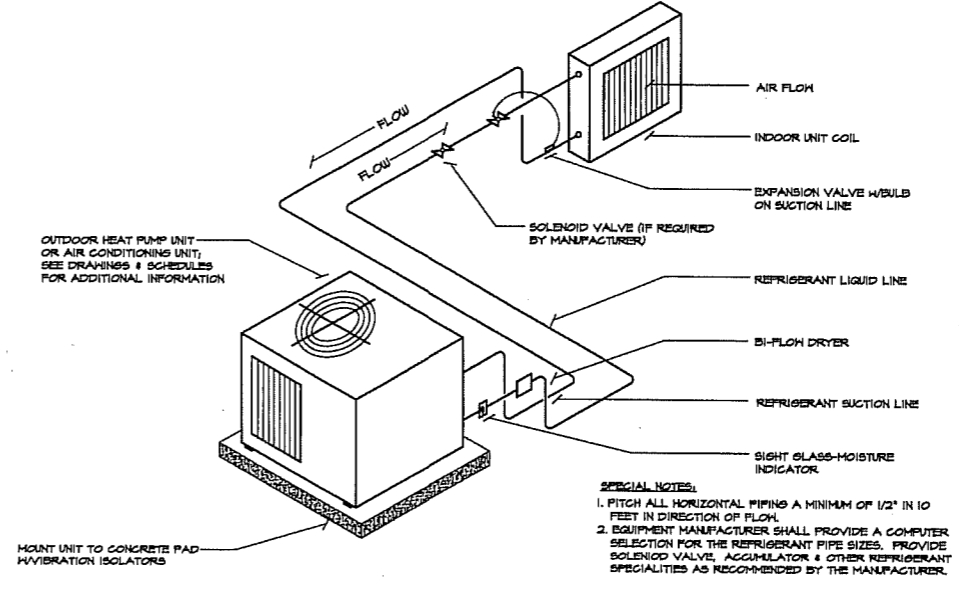
**BUILDING ADDITION VENTILATION & HVAC PIPING PLAN**  
SCALE 1/8" = 1'-0"

- ◇ GENERAL PROJECT NOTES**
- BUILDING IS EXISTING FACILITY WITH CLOSED IN ADDITION AS SHOWN. CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS & SPECS TO ASSURE COMPLIANCE & SCOPE OF WORK.
  - HVAC CONTRACTOR SHALL PROVIDE TEST-N-BALANCE OF NEW MECHANICAL HVAC SYSTEMS BEING INSTALLED PER 2007 FLORIDA BUILDING CODE SECTION 15-410.4B.4.2 GENERAL.
  - CONTRACTOR SHALL SUPPLY O&M MANUALS FOR SYSTEMS INSTALLED INCLUDING WIRING DIAGRAMS, SCHEMATICS, ETC PER 2007 FLORIDA BUILDING CODE SECTION 15-102.1

- INSTALL CONDENSATE CONTROL DEVICE FROM TRENT TECHNOLOGIES 'COSTGARD' WITH INSULATED CONDENSATE DRAIN WITH CLEANOUT. ROUTE TO LITTLE GIANT CONDENSATE DRAIN PUMP ABOVE FINISHED CEILING WITH INSULATED DISCHARGE LINE & CHECK VALVE TO OUTSIDE EARTH AREA PER 2006 GEORGIA MECHANICAL CODE.
- UL APPROVED IN-LINE SMOKE DETECTOR. SEE SPECS FOR ADDITIONAL INFORMATION.
- ROUTE REFRIGERANT LINES TO MATCHING HP OR AC UNIT. SEE SPECS, DRAWINGS & PIPING SCHEMATIC FOR REQUIREMENTS.
- AHU TO BE MOUNTED ON UNISTRUIT STEEL SUPPORTS FROM ROOF STRUCTURE WITH THREADED RODS & SPRING TYPE VIBRATION ISOLATORS. SEE SPECS FOR ADDITIONAL REQUIREMENTS.
- ROUTE 3/4" FAN DRAIN TO OUTSIDE AREA IN COMPLIANCE WITH LOCAL CODES.
- FLEXIBLE DUCT CONNECTOR.
- OPPOSED BLADE BALANCING DAMPER & BACKDRAFT DAMPER.
- UL APPROVED BREAKER OR DISCONNECT FOR FAN & HEATER IN COMPLIANCE WITH NEC CODE & LOCAL REQUIREMENTS.
- AIR FILTER & RACK. NO FILTER INSTALLED. AIR FILTERS AT GRILLES & ERVs.
- SUPPLY AIR DUCT WITH 1" LINER & INSULATION AS NOTED IN SPECS.
- EXTERNAL INSULATED 10" OUTSIDE AIR DUCT WITH BUG/BIRD SCREEN FROM HALL INTAKE LOUVER.
- BUILDING RETURN AIR DUCT. DUCT TO BE INSULATED WITH 1" LINER & DUCT WRAP AS NOTED IN SPECS.
- OPPOSED BLADE BALANCING DAMPER.
- AIR HANDLING UNIT. SEE SCHEDULES, SPECS & DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- MICRO WATER DETECTION SWITCH BOLTED TO DRAIN PAN WITH CONNECTION TO AHU LOW VOLTAGE HOT WIRE FOR SAFETY.
- INSTALL GALVANIZED AUX. DRAIN PAN UNDER UNIT WITH ANGLE ATTACHMENTS TO UNIT SUPPORTS PER CODE.
- METAL ANGLE SUPPORTS FOR AUX. DRAIN PAN AT EACH CORNER. PROVIDE ADDITIONAL SUPPORTS TO ASSURE PROPER FAN STRENGTH & DRAINAGE.



**HORIZONTAL AIR HANDLING UNIT DETAIL**  
N.T.S.



**REFRIGERANT PIPING SCHEMATIC**  
N.T.S.

**SPECIAL NOTES:**

- PITCH ALL HORIZONTAL PIPING A MINIMUM OF 1/2" IN 10 FEET IN DIRECTION OF FLOW.
- EQUIPMENT MANUFACTURER SHALL PROVIDE A COMPUTER SELECTION FOR THE REFRIGERANT PIPE SIZES. PROVIDE SOLENOID VALVE, ACCUMULATOR & OTHER REFRIGERANT SPECIALTIES AS RECOMMENDED BY THE MANUFACTURER.

**KEY**  
HEATING + COOLING  
322 West 8th Ave.  
Tallahassee, Florida  
(850) 656-4740

Kitchen & Dining Room Extension  
for  
Chi Omega Sorority  
Tallahassee, Florida

REVISIONS	No.	DATE	DESCRIPTION
No.1	DATE: 25 APR 2011	City Comments	

COT REVIEWED  
KENNETH LOCKE

**RECEIVED RESUBMITTAL**  
MAY 05 2011  
City of Tallahassee  
Building Inspection Division

DATE: 10 MARCH 2011  
DRAWN: E.LOCKE  
CHECKED: J.BURCH  
CAD FILE: AEC

**MECHANICAL PLANS**

SHEET NUMBER:  
**M-1**  
SHEET 1 OF 3 IN SERIES

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JAMES L. BURCH  
PROFESSIONAL ENGINEER  
FL. PE NO. 12465

FLORIDA REGISTERED PROFESSIONAL ENGINEER  
JAMES L. BURCH

PROJECT 1229  
DANSBORO, GEORGIA 30518  
(228) 248-0103

**SPLIT HEAT PUMP UNIT SCHEDULE**

AHU#	AREA SERVED	MANUF.	AIR HANDLER MODEL #	HEAT PUMP MODEL #	SYSTEM RATINGS			AIR HANDLING UNIT DATA										NOTES								
					TONS	EER	COP	HSFP	TYPE	FACTORY DISCONNECT	V-FH	CFM	ESP	HP	HTR KH	HTR MBH	OSA GPM		FIELD DISCONNECT	V-FH	MCA	MOCP	FUSE EKR	SEN COOL	TOTAL COOL	TOTAL HEAT
1	NEN DINING AREA	CARRIER	FV48N3006	23HC8560	5	14.0	5.74	8.2	HORIZONTAL DRAIN THRU	YES	208-1	1800	45"	5/4	11.5	58.6	300	YES	208-1	54.1	50	150	45	60	58.5	123A, 5A, 7A, 9
2	DISH & STOR AREA	CARRIER	FV48N3003	23HC8556	5	14.5	5.65	8.1	HORIZONTAL DRAIN THRU	YES	208-1	1000	35"	1/2	11.5	58.6	200	YES	208-1	22.5	55	155	26.5	54.2	54.4	123A, 5A, 7A, 9

**SYSTEM NOTES:**  
 1. SEE MECHANICAL SPECIFICATIONS & DETAILS FOR ADDITIONAL REQUIREMENTS & INFORMATION  
 2. IN-LINE UL APPROVED SMOKE DETECTOR IN SUPPLY & RETURN AIR PIPING PER DETAILS & SPECIFICATIONS; ITEM TO BE INSTALLED REGARDLESS OF 2007 FMC REQUIREMENTS WITH CONNECTION TO BUILDING ALARM SYSTEM  
 3. WALL MOUNTED DIGITAL PROGRAMMABLE TYPE THERMOSTAT WITH SMART FAN CONTROL  
 4. OUTSIDE HP CONDENSING UNIT TO HAVE COIL GUARD PROTECTION IF BUILDING LOCATED WITHIN 15 MILES OF COASTAL AREA OUTDOOR UNIT SHALL BE COATED WITH ELYSOLD MATERIAL FROM FACTORY APPROVED AGENT  
 5. ONE INCH PLEATED AIR FILTER AT UNIT TO BE GUARDED AT MERV 15; TYPICAL FIBERGLASS THROUGHWAY FILTERS ARE NOT APPROVED  
 6. FLEXIBLE SUPPLY DUCT CONNECTION PER DETAIL AT ALL AHU'S  
 7. WALL MOUNTED HUMIDITY SENSOR FOR DEHUMIDIFICATION CONTROL IN EACH ZONE OR THERMISTAT (VERIFY LOCATION WITH ENGINEER AT SITE)  
 8. AIR HANDLING UNIT TO BE DIRECT DRIVE WITH VARIABLE SPEED BLOWER FOR DEHUMIDIFICATION CONTROL; DIP SWITCH FAN SPEED CONTROLLERS ARE NOT APPROVED  
 9. UNIT INDICATED IN BASIS FOR DESIGN OTHER APPROVED VENDORS ARE TRANE & LENOX

**FAN SCHEDULE**

FAN NO.	ROOM NAMES & NOS.	MANUF.	MODEL NO.	ACTUAL FAN LOCATION	FAN TYPE	BLOWER DATA			MOTOR DATA			SCHEM.	BACKDRAFT DAMPER TYPE	FAN SPEED CONTROL	TIME DELAY ON BREAK	FAN CONTROL	FLEXIBLE DUCT CONNECTOR	FAN SUPPORT	NOTES		
						CFM	ESP	TYPE	DRIVE	V-FH	WATTS/HP									AMPS	RPM
EF-1	DISHWASHING AREA	PANASONIC	FV8000S	CABINET FAN LOCATED AT CEILING	CABINET EXHAUSTER	100	25"	GTR	DRT	120-1	52 WATTS	0.18	404	0.5	SPRING	SOLID STATE CONTROL	-	ROOM TEST 80°F	OUTLET ONLY	THREADED RODS FROM BUILDING STRUCTURE	1

**FAN NOTES:**  
 1. CONTROLLED BY HALL 24 VOLT THERMOSTAT SET AT 80°F WITH 2 HOUR OVER-RIDE; VERIFY EXACT LOCATION PRIOR TO INSTALLATION

**VENTILATION INFORMATION**

ROOM NAME	APPROX ROOM SIZE (SQFT)	VENTILATION REQUIREMENT			OCCUPANCY AMOUNT			EST. MAX VENTILATION RATE (CFM)			AHU OUTSIDE AIR CFM PER PERSON AS DESIGNED	REMARKS
		ASHRAE 62.1-2007 TABLE 6.1	2007 FMC TABLE 405.5	ASHRAE 62.1-2007 TABLE 6.1	2007 FMC TABLE 405.5	AMOUNT REQUIRED PER PROJECT ARCHITECT	ASHRAE 62.1-2007 TABLE 6.1	2007 FMC TABLE 405.5	ESTIMATED AMOUNT PER DESIGN			
DINING ROOM	646	10/1000	15 CFM/PERSON + 0.15 CFM/SP	10/1000	48.22	48.22	64	493.45	104	460	10	CALCULATED USING "DINING ROOM CATEGORY" PER ASHRAE 62.1-2007 TABLE 6.1 FOR OCCUPANCY CODE COUNT OF 46 PEOPLE FOR COMBINED RATE OF 10 CFM/EACH
			10 CFM/PERSON COMBINED RATE					48.22				
DISHWASHING ROOM	260	50 CFM/SP EXHAUST PER TABLE 6.4	20/1000	10/1000	0	5.56	2	21.76	50.4	50	15	CALCULATED USING "KITCHENETTE CATEGORY" PER ASHRAE 62.1-2007 TABLE 6.4 FOR REQUIRED EXHAUST RATE
								21.76				

**SPECIAL NOTE:**  
 REDUCED PEOPLE OCCUPANCY AMOUNT IS BASED ON MANDATORY RATES; 2007 FMC SECTION 405.5 "VENTILATION RATE" EXCEPTION STATES THAT REDUCED OCCUPANT LOAD RATE MAYBE APPLIED WHERE STATISTICAL DATA DOCUMENTS THE ACCURACY OF AN ALTERNATE ANTICIPATED OCCUPANT DENSITY; BASED ON THIS METHOD ARCHITECT ROOM COUNTS HAVE BEEN USED IN BOTH DESIGN & VENTILATION CALCULATIONS AS SO REFLECTED ABOVE; OUTSIDE AIR FOR AHU-1 (800 CFM) & AHU-2 (200 CFM) HAVE BEEN COMBINED TO ASSURE BUILDING PRESSURE-BALANCE

**HVAC DESIGN DATA**

OUTDOOR AREA DESIGN CONDITIONS				REMARKS	
DB	WB	DB	HUMIDITY	SUMMER	WINTER
95.5°F	76.6°F	25.4°F	-	BASED ON 2004 ASHRAE FUNDAMENTALS FOR TALLAHASSEE, FLORIDA AT RATE OF 99.6% WINTER & 0.4% SUMMER	

INDOOR AREA DESIGN CONDITIONS				REMARKS	
DB	HUMIDITY	DB	HUMIDITY	SUMMER	WINTER
75°F	55%	70°F	55%	BASED ON ASHRAE STANDARD 55-2004 FOR THERMAL ENVIRONMENTAL OCCUPANCY OF 80%	

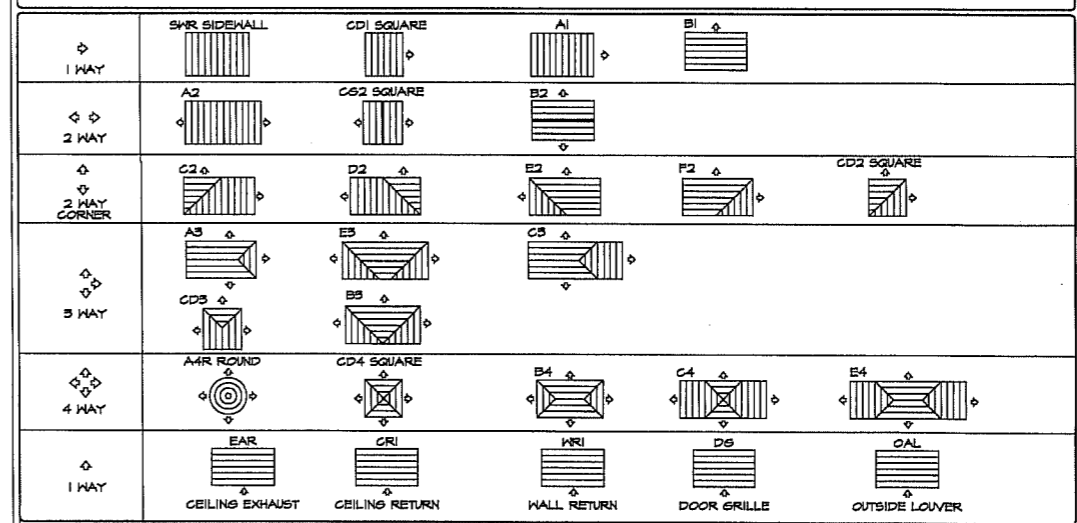
**DIFFUSER, REGISTER, & GRILLE SCHEDULE**

NO.	LOCATION	FUNCTION	SIZE (INCHES)		AIR PATTERN	MANUFACTURER	TYPE MODEL NUMBER	DAMPER	COLOR FINISH	NOISE CRITERIA	AIR VELOCITY RANGE (FPM)	NOTES
			FACE	NECK								
CD4	CEILING	SUPPLY	SEE NOTE 1	SEE DN95	4-WAY	METALAIR	5500	OBDR	WHITE	15-20	400-600	123A,5A,7A
CD5	CEILING	SUPPLY	SEE NOTE 1	SEE DN95	5-WAY	METALAIR	5500	OBDR	WHITE	15-20	400-600	123A,5A,7
CD2	CEILING	SUPPLY	SEE NOTE 1	SEE DN95	2-WAY	METALAIR	5500	OBDR	WHITE	15-20	400-600	123A,5A,7
CS2	CEILING	SUPPLY	SEE NOTE 1	SEE DN95	2-WAY	METALAIR	5500	OBDR	WHITE	15-20	400-600	123A,5A,7
SHR	SIDEWALL	SUPPLY	SEE NOTE	SEE NOTE	1-WAY	METALAIR	VHD	OBDR	ALM	15-20	500-600	123A,5A,7
HRI	HALL	RETURN	14"x36"	14"x36"	1-WAY	METALAIR	RHPB	OBDR	ALM	15-20	400-500	4
CR1	CEILING	RETURN	SEE NOTE 1	SEE DN95	1-WAY	METALAIR	RHPB	OBDR	WHITE	15-20	400-500	123A,5A,7,10
OAL	HALL #	EXHAUST-INTAKE	SEE NOTE 4	SEE DN95	1-WAY	METALAIR	OAL4	OBDR	ALM	15-20	400-500	4,7,9

**NOTES:**  
 1. GRILLE FACE SHALL BE INSTALLED AT ONE DIMENSIONAL SIZE UP FROM CONNECTING DUCT (I.E. 10" ROUND NECK TO HAVE 12"x12" GRILLE FACE)  
 2. PROVIDE ALL DEVICES WITH PROPER FRAME STYLE TO MATCH CEILING INDICATED BY PROJECT ARCHITECT; SEE ARCHITECTURAL DRAWINGS FOR REQUIREMENTS  
 3. ALL LAY IN TYPE PRODUCTS SHALL HAVE T-BARS WITH PANEL  
 4. DEVICES SHALL HAVE FACTORY FINISHES TO MATCH SURROUNDING DUCTS, DOOR, CEILING OR WALL AREAS; COORDINATE WITH ARCHITECT DRAWINGS PRIOR TO ORDER  
 5. BRANCH LINE SIZE SHOWN ON DRAWINGS TO BE ACTUAL LINE SERVING GRILLE DEVICE  
 6. RADIANT DAMPERS OR FIRE DAMPERS SHALL COMPLY WITH UL555 AND NFPA REQUIREMENTS; SEE ARCHITECTURAL DRAWINGS FOR RATED CEILING OR WALLS  
 7. NECK SIZE TO BE SAME AS BRANCH LINE INDICATED ON DRAWINGS  
 8. SUPPLY AIR DIFFUSER SHOWN TO BE 4-WAY THROW UNLESS OTHERWISE INDICATED ON DRAWING  
 9. INSTALL BACKDRAFT DAMPER AND OPPOSED BLADE DAMPER FOR OUTSIDE AIR INTAKE DEVICE  
 10. ALL BUILDING CEILING RETURN AIR GRILLES TO BE FILTERED TYPE AS INDICATED WITH MERV 15 ONE INCH AIR FILTERS

\*INSTALL VENT IN OUTSIDE WALL AT OR IN SOFFIT  
 SPECIAL NOTE:  
 SOME OF THE DEVICES AND PRODUCTS INDICATED ABOVE MAY NOT APPEAR ON CONSTRUCTION DOCUMENTS; VERIFY ACTUAL ITEMS PRIOR TO INSTALLATION

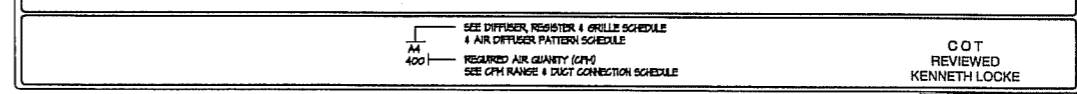
**AIR DIFFUSER PATTERNS**



**CFM RANGE & DUCT CONNECTION SCHEDULE**

CFM RANGE	DUCT CONNECTION SIZE (INCHES)			CFM RANGE	DUCT CONNECTION SIZE (INCHES)		
	SUPPLY AIR	RETURN AIR	EXHAUST AIR		SUPPLY AIR	RETURN AIR	EXHAUST AIR
25-50	5"	6"	4"	511-400	12"	14"	12"
51-115	6"	8"	6"	401-475	12"	16"	14"
116-150	7"	10"	6"	476-600	14"	16"	14"
151-244	8"	10"	8"	601-800	16"	18"	16"
245-244	9"	10"	8"	801-1000	18"	20"	16"
250-510	10"	12"	10"	1000-1500	20"	20"	18"

**DIFFUSER LEGEND**



**RECEIVED RESUBMITTAL**  
 MAY 05 2011

**MECHANICAL MATERIAL SCHEDULE**

AIR DISTRIBUTION DUCTS		REFRIGERANT & CONDENSATE DRAIN PIPING			PIPING INSULATION DATA		PIPE HANGERS		FLEXIBLE DUCTS			EXTERNAL DUCT INSULATION WRAP				INTERNAL DUCT INSULATION ACOUSTIC LINER									
MATERIAL	SEALER	BELOW FINISHED FLOOR	CONDENSATE DRAIN	ABOVE FINISHED FLOOR	FITTINGS	JACKET	THICKNESS	LOCATION	MANUF.	SERIES	MAX LENGTH	R-VALUE	MANUF.	SERIES	MIN THICKNESS	MIN R-VALUE	VAPOR BARRIER	SEALER	LOCATION	MANUF.	SERIES	MIN THICKNESS	COATING	LOCATION	MIN MAX LENGTH
GLASS WOVEN REINFORCED STEEL OR GALVANIZED STEEL OR GALVANIZED STEEL WITH POLYURETHANE INSULATION	SEE DUCT SCHEDULE FOR WRAPPING DETAIL	BELOW FINISHED FLOOR	CONDENSATE DRAIN	ABOVE FINISHED FLOOR	FITTINGS	UNIVERSAL ALUMINUM JACKET AT OUTSIDE & EXPOSED AREAS	3/4" ARN-WLEX	REFRIGERANT SECTION LINE CONDENSATE DRAIN LINE	CLASCO	TH-100	6 FT	6	JOHN HANVILLE	MI-CRUTE	2"	6	FSK	SEE DUCT SCHEDULE FOR WRAPPING DETAIL	ALL SUPPLY, RETURN & EXHAUST AIR DUCTS	JOHN HANVILLE	PERMACOTE	1"	WITH HOSPITAL MICROBIAL WHITE COATING	FROM EQUIPMENT	3 FT

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**JAMES L BURCH**  
 PROFESSIONAL ENGINEER  
 FL. PE NO. 12488

**JAMES L BURCH**  
 PROFESSIONAL ENGINEER  
 FL. PE NO. 12488

P.O. BOX 1229  
 DANVER, GEORGIA 30118  
 (770) 248-0105



**Kitchen & Dining Room Extension**  
**Chi Omega Sorority**  
 Tallahassee, Florida

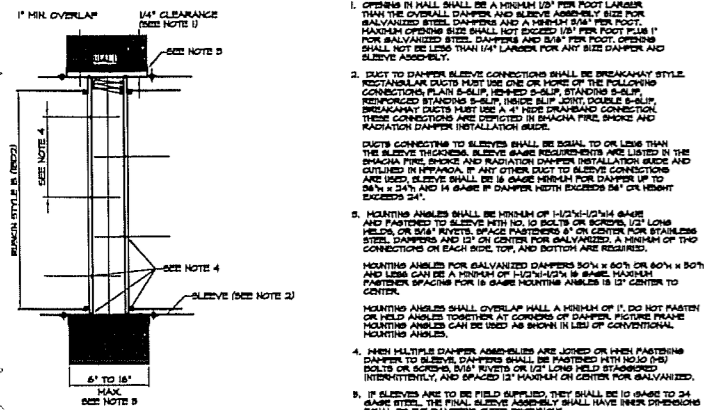
REVISIONS  
 No. DATE DESCRIPTION

No.1 DATE: 25 Apr 2011  
 City Comments

DATE: 10 MARCH 2011  
 DRAWN: E.LOCKE  
 CHECKED: J.BURCH  
 CAD FILE: AEC

**MECHANICAL SCHEDULES**

SHEET NUMBER:  
**M-2**  
 SHEET 2 OF 3 IN SERIES

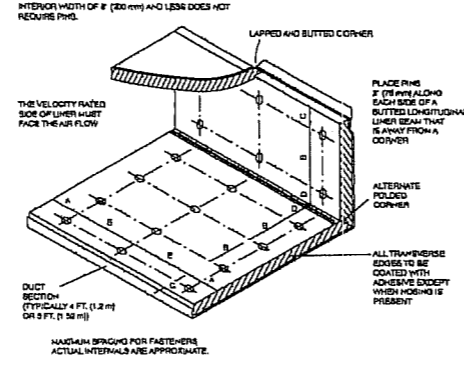
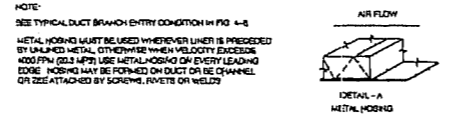


1. OPENING IN WALL SHALL BE A MINIMUM 1/2" PER FOOT LARGER THAN THE OVERALL DAMPER AND SLEEVE ASSEMBLY SIZE FOR GALVANIZED STEEL DAMPERS AND A MINIMUM 3/4" PER FOOT. MAXIMUM OPENING SIZE SHALL NOT EXCEED 18" PER FOOT PLUS 1" FOR GALVANIZED STEEL DAMPERS AND 3/4" PER FOOT. OPENING SHALL NOT BE LESS THAN 1/4" LARGER FOR ANY SIZE DAMPER AND SLEEVE ASSEMBLY.
2. DUCT TO DAMPER SLEEVE CONNECTIONS SHALL BE BREAKAWAY STYLE. RECTANGULAR DUCTS MUST USE ONE OR MORE OF THE FOLLOWING CONNECTIONS: FLANGE, REBbed S-SLIP, STANDING S-SLIP, REINFORCED STANDING S-SLIP, INSIDE SLIP JOINT, DOUBLE S-SLIP. BREAKAWAY DUCTS MUST USE A 4" RISE OVERHANG CONNECTION. THESE CONNECTIONS ARE LISTED IN SHAGNA FPG, SHAGNA AND RADIATION DAMPER INSTALLATION GUIDE.
3. DUCTS CONNECTION TO SLEEVES SHALL BE EQUAL TO OR LESS THAN THE SLEEVE THICKNESS. SLEEVE ANGLES REQUIRED ARE LISTED IN THE SHAGNA FPG, SHAGNA AND RADIATION DAMPER INSTALLATION GUIDE AND LISTED IN SHAGNA. IF ANY OTHER DUCT TO SLEEVE CONNECTIONS ARE USED, SLEEVE SHALL BE 1/2" GAUGE MINIMUM FOR DAMPER UP TO 24" x 24" AND 1/4" GAUGE IF DAMPER WIDTH EXCEEDS 24" OR HEIGHT EXCEEDS 24".
4. MOUNTING ANGLES SHALL BE MINIMUM OF 1/2" x 1/2" x 1/4" GAUGE AND FINISHED TO SLEEVE WITH NO. 10 BOLTS OR BOLDS, 1/2" LONG AND 3/4" OR 5/8" NUTS OR 1/2" LONG HELD STANCHIONS. MOUNTING ANGLES SHALL BE 1/2" ON CENTER FOR GALVANIZED STEEL DAMPERS AND 1/2" ON CENTER FOR GALVANIZED PARTNER BRANCHES FOR IN SHAGNA FPG, SHAGNA AND RADIATION DAMPER INSTALLATION GUIDE.
5. MOUNTING ANGLES FOR GALVANIZED DAMPERS 30" x 30" OR 30" x 24" AND LESS CAN BE A MINIMUM OF 1/2" x 1/2" x 1/4" GAUGE PARTNER BRANCHES FOR IN SHAGNA FPG, SHAGNA AND RADIATION DAMPER INSTALLATION GUIDE.
6. MOUNTING ANGLES SHALL OVERLAP WALL A MINIMUM OF 1". DO NOT FASTEN OR HELP ANGLES TOGETHER AT CORNERS OF DAMPER. FINISH FRAME MOUNTING ANGLES CAN BE USED AS SHOWN IN LES OF CONVENTIONAL MOUNTING ANGLES.
7. WHEN MULTIPLE DAMPER ASSEMBLIES ARE JOINED OR WHEN PARTNER DAMPERS TO SLEEVES DAMPERS SHALL BE FASTENED WITH NO. 10 BOLTS OR BOLDS OR BOLDS 5/8" NUTS OR 1/2" LONG HELD STANCHIONS INTERMITTENTLY AND SPACED 12" MAXIMUM ON CENTER FOR GALVANIZED.
8. IF SLEEVES ARE TO BE FIELD SUPPLIED, THEY SHALL BE 10 GAUGE TO 24 GAUGE STEEL. THE FINAL SLEEVE ASSEMBLY SHALL HAVE INNER DIMENSIONS EQUAL TO THE DAMPER OUTER DIMENSIONS.

**VERTICAL FIRE DAMPER DETAIL**  
(1/2 HOUR UL, CLASSIFIED PER FILE NO. R893)

A FINISH MAY BE OMITTED WHEN METAL HOUSING IS USED. IF THEN STARTS FROM THE HOUSING.

Width	A	B	C	D	E
0 - 100 FPM (0 - 117 MPH)	1"	1 1/2"	1"	1"	1"
100 - 200 FPM (117 - 234 MPH)	2"	2"	1 1/2"	1 1/2"	1 1/2"

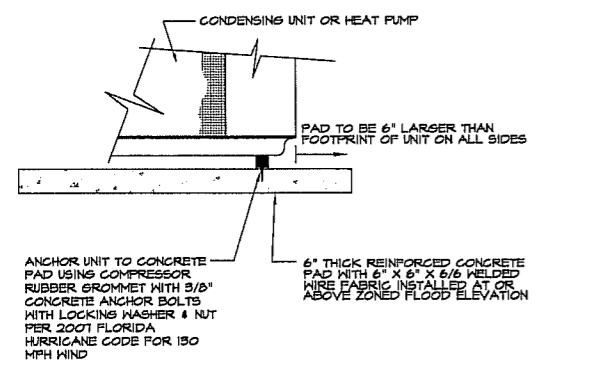


**DUCT LINER DETAIL**  
NTS

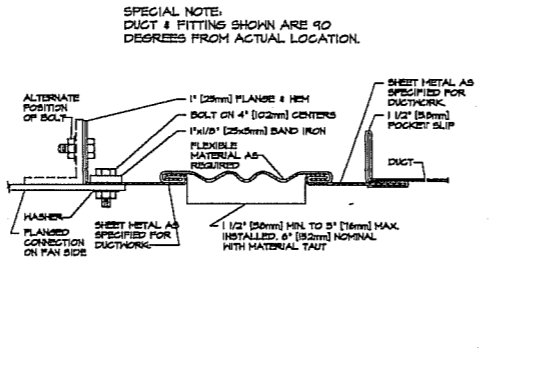
**MECHANICAL LEGEND**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
(H)	DIGITAL HUMIDISTAT CONTROL	—D—D—	DRAIN LINE	AC	AIR COND. UNIT
(R)	DIGITAL ROOM THERMOSTAT (MOUNTED AT 84" AFF)	—RL—	REFRIGERANT LINES	AF	ABOVE FINISHED FLOOR
(P)	FIRESTAT (SL APPROVED TYPE)	—C—	GAS LINES	AH	AIR HANDLING UNIT
(S)	SMOKE DETECTOR (IN LINE TO ALARM SYSTEM)	—O—	PIPE TURN-UP	B	BOLTER
(R)	RETURN AIR DUCT, GRILLE OR REGISTER	—T—	PIPE TURN-DOWN	BD	BALANCING DAMPER
(S)	SUPPLY AIR DUCT, DIFFUSER, GRILLE OR REGISTER	—L—	LONG RADIUS ELBOW	CD	CEILING DIFFUSER
(E)	EXHAUST AIR DUCT, GRILLE OR REGISTER	—R—	FLEXIBLE PIPE CONNECTOR	CR	CEILING RETURN
(F)	EXHAUST FAN (CEILING/CABINET TYPE)	—H—	SHORT BLADE MOISTURE INDICATOR	CT	COOLING TOWER
(S)	EXHAUST SUPPLY AIR FAN (IN LINE TYPE)	—D—	NEW SUPPLY-EXHAUST DUCT/AIR DISTRIBUTION	DD	DOOR GRILLE
(S)	EXHAUST/SUPPLY AIR FAN (HALL CENTER MOUNTED TYPE)	—R—	NEW RETURN + OUTSIDE DUCT/AIR DISTRIBUTION	DH	DUCT HEATER
(S)	34" DRYWELL FOR CONDENSATE DRAIN	—E—	EXISTING DUCT/AIR DISTRIBUTION TO REMAIN	EA	EXHAUST AIR
(D)	MOTORIZED DAMPER (RUBBER LIP LEAKAGE 24VOLT)	—F—	FLEXIBLE DUCT NOT TO EXCEED 8 FEET IN LENGTH	EAR	EXHAUST AIR REGISTER
(C)	FLEXIBLE DUCT CONNECTOR	—M—	HANDL OPERATED BLADE BALANCING DAMPER (RUBBER)	EP	EXHAUST FAN
(R)	FIRE DAMPER (RUBBER) WITH ACCESS DOOR	—FA—	FRESH AIR INTAKE	FA	FRESH AIR INTAKE
(R)	ROOF MOUNTED EXHAUST FAN	—HR—	HOT WATER RETURN	HA	HALL RETURN
(R)	ROOF MOUNTED MAKE-UP OR SUPPLY FAN	—HR—	HALL RETURN	HS	HOT WATER SUPPLY
(P)	FIRE-SMOKE DAMPER WITH ACCESS DOOR EQUAL TO ROOM WITH DC CURRENT	—C—	CEILING RETURN GRILLE/REGISTER WITH 18" OPEN-END BOOT	(X)	VAV BOX TAG NUMBER
(E)	48" ELBOW HANG POOL TURNING VANES	—C—	CEILING DIFFUSER WITH FLEXIBLE DUCT, DUCT NOT TO EXCEED 8 FEET IN LENGTH	(X)	DETAIL NUMBER
(E)	60" ELBOW HANG POOL TURNING VANES	—C—	RECTANGULAR OR ROUND DUCT TRANSITION PER SHAGNA	(X)	SHEET OR EACH DETAIL IS SHOWN
(R)	RECTANGULAR BRANCH DUCT OFF RECTANGULAR MAIN TRUNK DUCT WITH VOLUME DAMPER (OPPOSED BLADE TYPE)	—C—	RECTANGULAR OR ROUND DUCT, FIRST 8 INDICATED SIZE OF SIZE SHOWN NET FREE DIMENSIONS IN INCHES	(X)	DIFFUSER, REGISTER OR GRILLE & SEE SCHEDULE

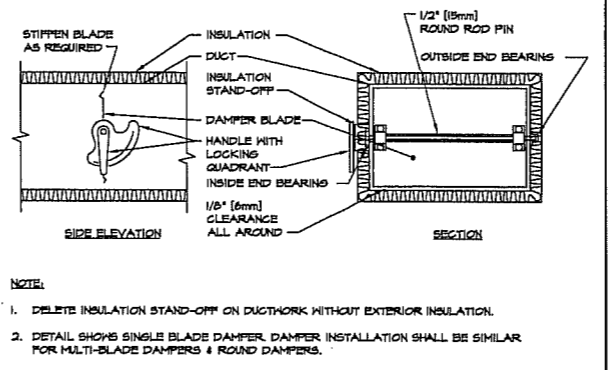
NOTE: SOME SYMBOLS AND ABBREVIATIONS MAY NOT BE USED IN THESE DRAWINGS.



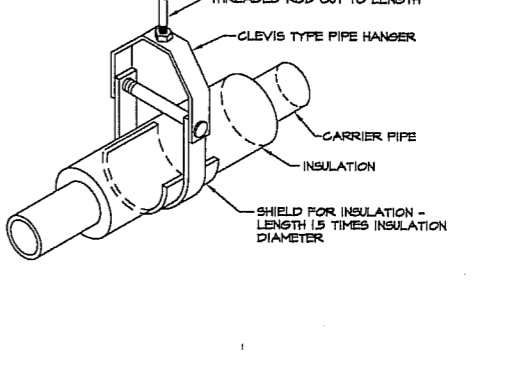
**MOUNTING DETAIL - OUTDOOR UNIT**  
NO SCALE



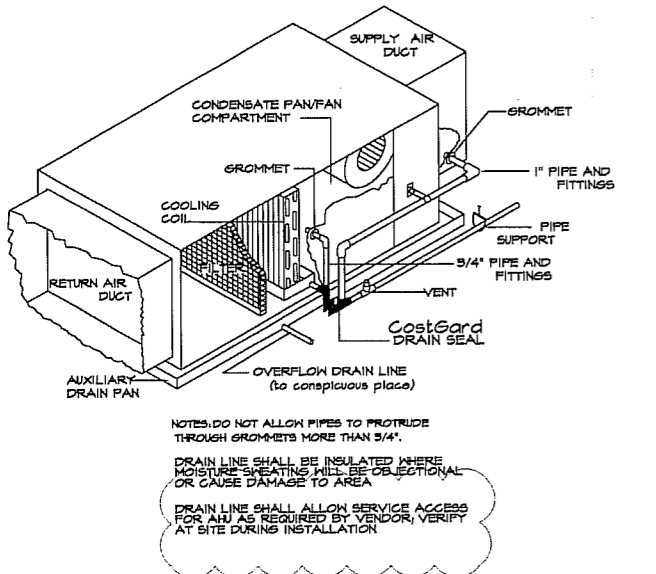
**RECTANGULAR FLEXIBLE CONNECTION DETAILS**  
NTS



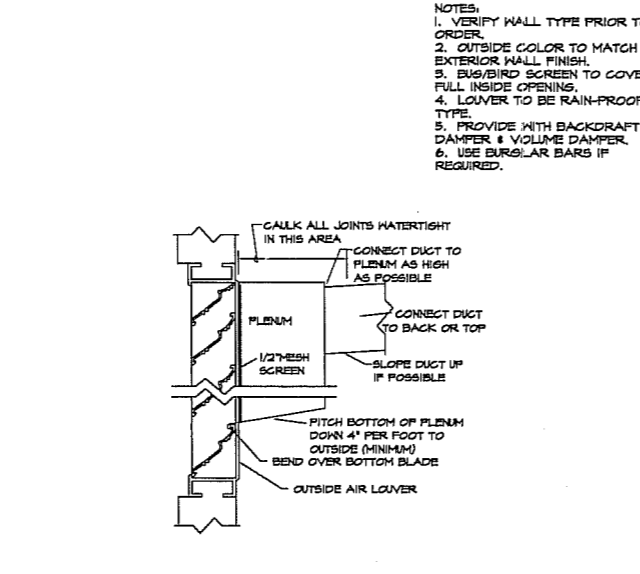
**VOLUME DAMPER DETAIL**  
NTS



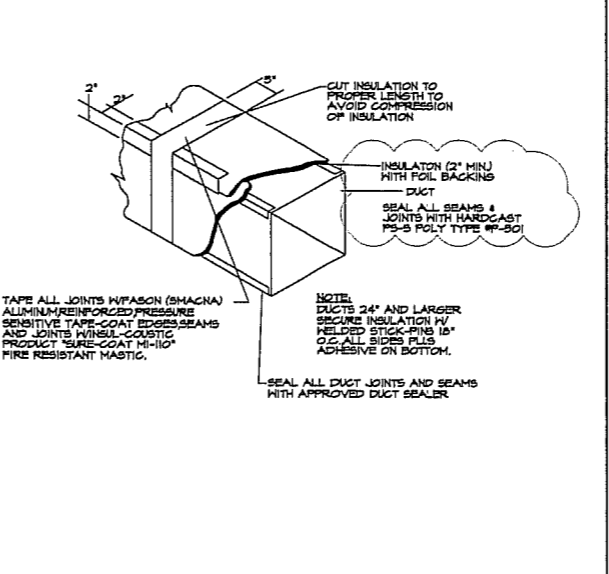
**CLEVIS TYPE PIPE HANGER FOR INSULATED PIPE**  
NTS



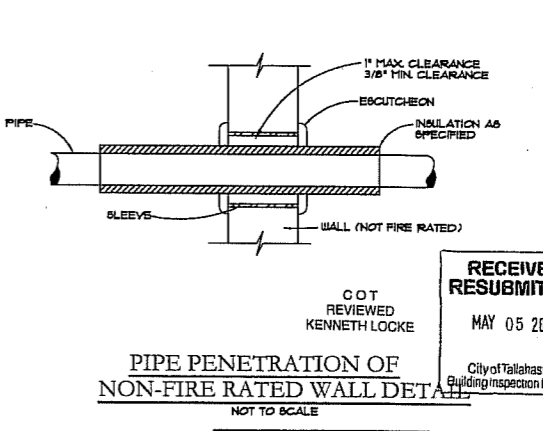
**COST-GARD CONDENSATE DRAIN DETAIL**  
NTS



**DUCT CONNECTION TO WATERPROOF LOUVER DETAIL**  
NTS



**DUCT INSULATION/WRAPPING DETAIL**  
NTS



**PIPE PENETRATION OF NON-FIRE RATED WALL DETAIL**  
NOT TO SCALE

GOT REVIEWED  
KENNETH LOCKE

**RECEIVED RESUBMITTAL**  
MAY 05 2011

City of Tallahassee  
Building Inspection Division

DATE: 10 MARCH 2011  
DRAWN: E.LOCH  
CHECKED: J.BURCH  
CAD FILE: AEC

**MECHANICAL LEGEND & DETAILS**

SHEET NUMBER:  
**M-3**  
SHEET 3 OF 3 IN SERIES

**KEY**  
HEATING + COOLING  
302 West 5th Ave.  
Tallahassee, Florida  
(904) 638-4740

**Kitchen & Dining Room Extension**  
**Chi Omega Sorority**  
Tallahassee, Florida

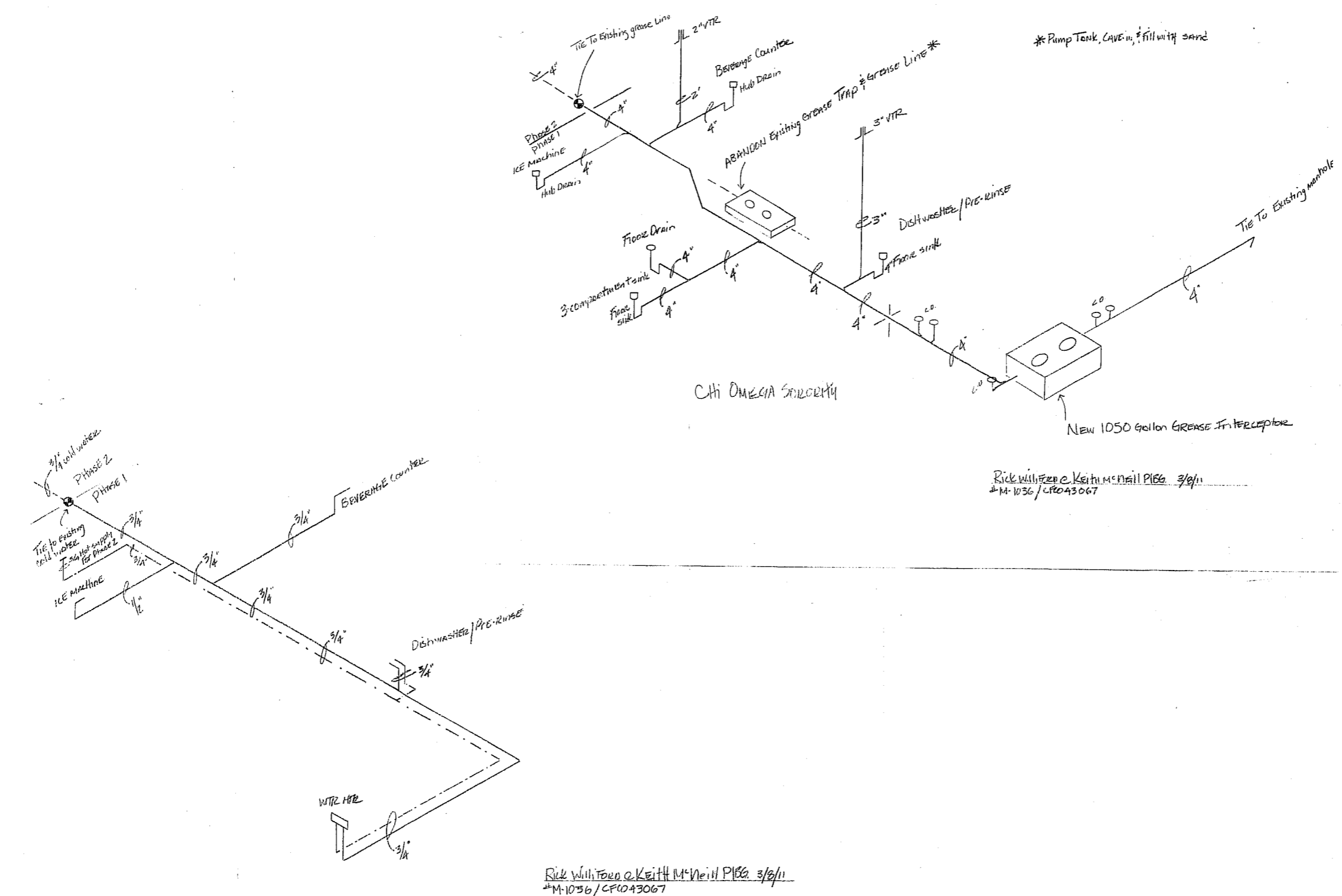
CONSULTANTS

**Dining Room Expansion  
 for Gamma Chapter of  
 Chi Omega Sorority at FSU**  
 TALLAHASSEE, FLORIDA  
**Plumbing Riser Diagrams**

REVISIONS


DATE = March 2011  
 DRAWN = RSH  
 CHECKED = RSH  
 JOB NO. = HDG 2919

DRAWING  
**P1.0**



\* Pump Tank, CAVE-IN, & fill with sand

CHI OMEGA SORORITY

Rick Wilford & Keith McNeil P.E.G. 3/8/11  
 #M-1036 / CPO43067

Rick Wilford & Keith McNeil P.E.G. 3/8/11  
 #M-1036 / CPO43067

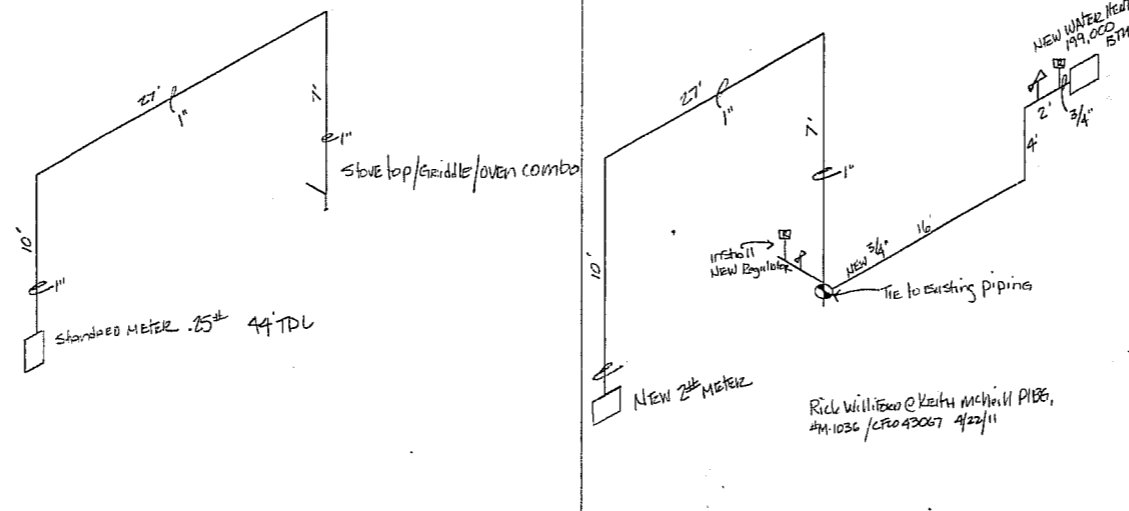
GOT  
 REVIEWED  
 DANIEL MANN JR.  
 03-30-11

CONSULTANTS

**Dining Room Expansion  
for Gamma Chapter of  
Chi Omega Sorority at FSU**  
TALLAHASSEE, FLORIDA  
**Gas Piping Riser Diagrams**

Existing Kitchen Gas Piping  
(6) Burners @ 25,000 BTU  
(1) Griddle @ 15,000 BTU  
(1) Oven @ 28,000 BTU  
(1) Oven @ 20,000 BTU  
216,000 BTU

Proposed Gas Piping  
Existing Gas Fixture 216,000 BTU + New Regulator 3/4"  
New Water Heater 199,000 BTU Regulator 3/4"  
415,000 BTU 66' TDL 2<sup>nd</sup> SYSTEM



Rick Williams & Keith McNeil P.E.S.  
#M-1036 / CFPO 43067 4/22/11

COT  
REVIEWED  
KENNETH LOCKE

REVISIONS

NO.	DATE	REVISION
1	5/5/11	Building Review Comments

DATE     ▪ March 2011  
DRAWN   ▪ RSH  
CHECKED ▪ RSH  
JOB NO.   ▪ HDG 2919

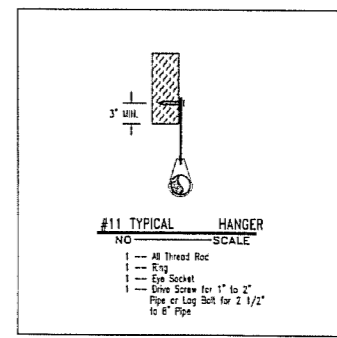
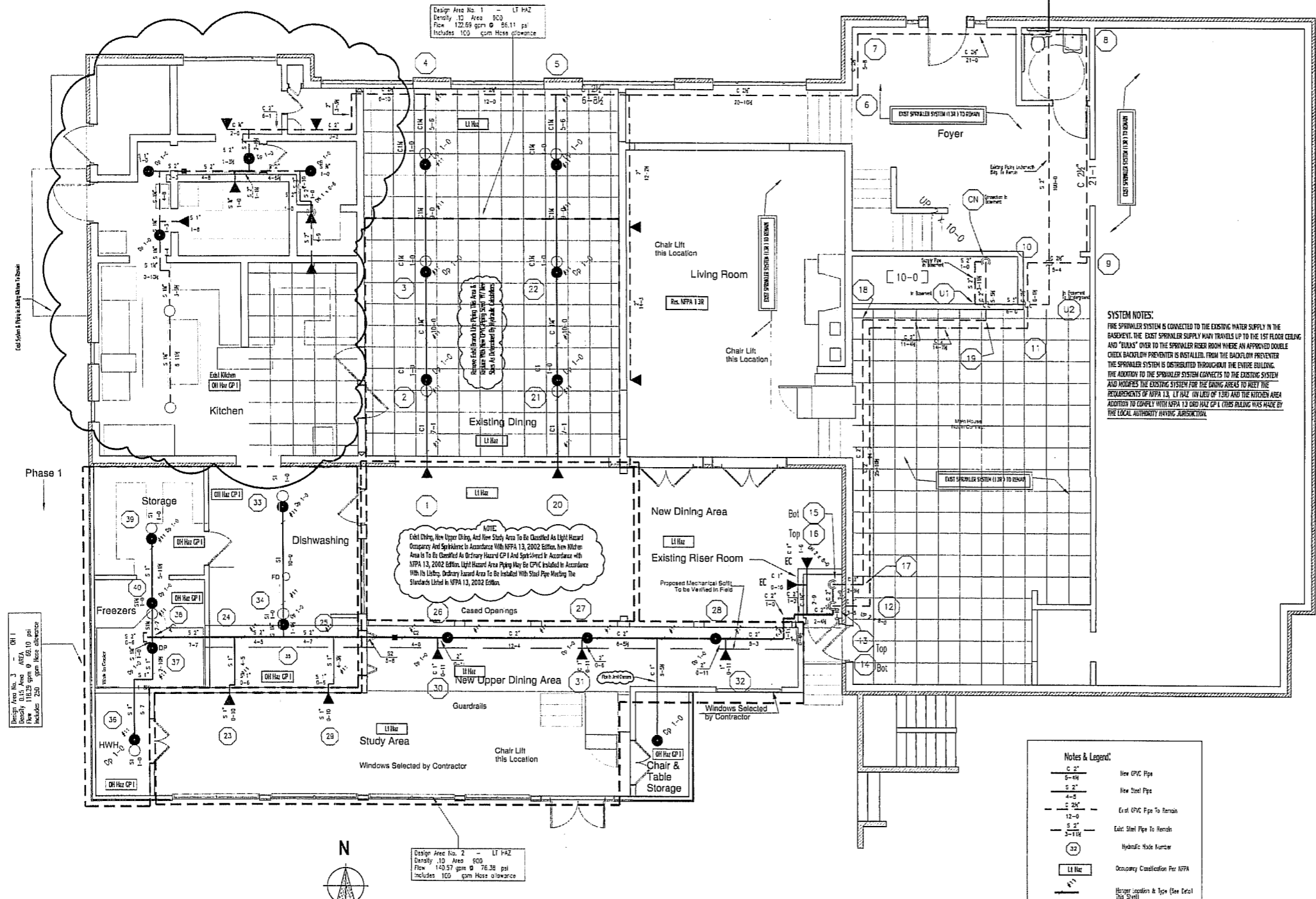
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RESUBMITTAL**

MAY 05 2011

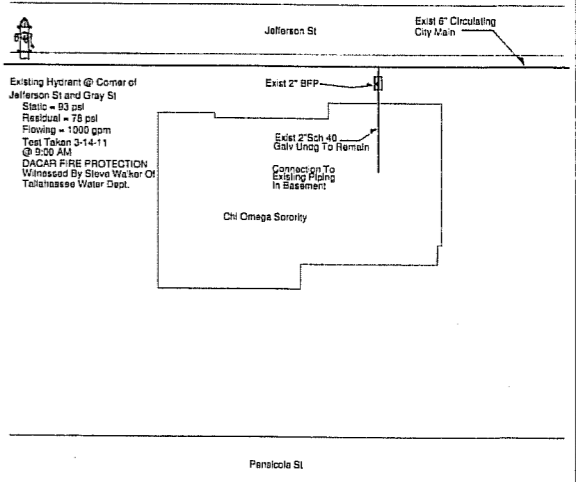
City of Tallahassee  
Building Inspection Division

DRAWING

**P2.0**



**SYSTEM NOTES:**  
 FIRE SPRINKLER SYSTEM IS CONNECTED TO THE EXISTING WATER SUPPLY IN THE BASEMENT. THE EXISTING SPRINKLER SUPPLY MAIN TRAVELS UP TO THE 1ST FLOOR CEILING AND "BULKS" OVER TO THE SPRINKLER RISER ROOM WHERE AN APPROVED DOUBLE CHECK BACKFLOW PREVENTER IS INSTALLED. FROM THE BACKFLOW PREVENTER THE SPRINKLER SYSTEM IS DISTRIBUTED THROUGHOUT THE ENTIRE BUILDING. THE ADDITION TO THE SPRINKLER SYSTEM CONNECTS TO THE EXISTING SYSTEM AND ADAPTS THE EXISTING SYSTEM FOR THE DINING AREAS TO MEET THE REQUIREMENTS OF NFPA 13, LT HAZ (WJUD) OF 1300. AND THE KITCHEN AREA ADDITION TO COMPLY WITH NFPA 13 (LD HAZ) CP I. THIS REVISION WAS MADE BY THE LOCAL AUTHORITY HAVING JURISDICTION.



**TABLE I**  
 Maximum Support Spacing Distance (Inch) Sprinkler Head Drop Time

Nominal Pipe Size (in.)	Less than 100 psi	More than 100 psi
3/4"	6'	5'
1"	8'	7'
1 1/4"	10'	9'
1 1/2"	12'	11'
2"	16'	15'

**TABLE II**  
 Hangers and Supports

Nominal Pipe Size (in.)	Maximum Spacing (ft)	Support Spacing (ft)
3/4"	6-0"	1-7"
1"	8-0"	2-0"
1 1/4"	10-0"	2-6"
1 1/2"	12-0"	3-0"
2"	16-0"	3-6"

**TABLE III**  
 Maximum Slope of Piping Between End Line Sprinkler Head Drop Elbow

Nominal Pipe Size (in.)	Less than 100 psi	More than 100 psi
3/4"	2"	2"
1"	3"	3"
1 1/4"	4"	4"
1 1/2"	5"	5"
2"	6"	6"

**General Note:**  
 1. All work to be done in accordance with NFPA 13 R.  
 2. Hydraulic Calculations are to be done in accordance w/ NFPA 13  
 3. Water Flow Test performed 3/14/11 at 9:00 am  
 Static = 93 psi  
 Residual = 78 psi  
 Flowing = 1000 gpm  
 4. Final shop drawing are to be by Fire Sprinkler Contractor.

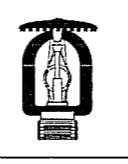
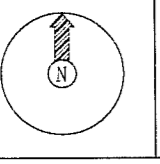
633.01 State Fire Marshall, powers and duties, rules -  
 However, persons certified as a Contractor I, Contractor II, or Contractor IV under this chapter may design fire protection systems of 49 or fewer sprinklers, and may design the alteration of an existing fire sprinkler system if the alteration consists of the relocation, addition, or deletion of not more than 49 sprinklers.

RECEIVED RESUBMITTAL  
 MAY 20 2011  
 City of Tallahassee Building Inspection Division

**DACAR Fire Protection Inc.**  
 1755 Commerce Blvd.  
 Midway, Florida 32343  
 Ph. 850-562-3181 Fx. 850-562-0114 license# 25785100011997

General Notes		Symbols		Number of Sprinklers		Drawing Title	
1. All Pipe Locations are to be Field Measured Prior to Fabrication and Installation by Sprinkler Contractor.		Hydraulic Reference Point		Total This Sheet: 25	Total This Job: 36	1st Floor Fire Sprinkler Phase 1	
2. All Dimensions (Shown) are Center to Center.		Elev. Below Top of Steel				Contract No.	Revision: 1 Change Occupancy 5-18-11
3. High Temperature Heads are to be Field Located Where Required.		Elev. Above Finished Floor				Drawn By: B.Pedgett	Date: 3/18/11
4. All Pipes and Hangers are to be installed per NFPA #13.		Ceiling Height				Scale: 1/4"=1'-0"	Approval By:
5. Hangers are to be U.L. Listed and F.M. Approved.		Denotes Hanger Location				Date: 3/18/11	
		Rise up or down					

Job: Chi Omega Sorority  
 Florida State University  
 Tallahassee, Florida  
 Contractor: Renegade Construction  
 Tallahassee, Florida



SHEET OF  
 FP-1

# 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.
- COLOR 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 WARNERS FOR CONDUCTORS: VINYL OR VINYL-CLOTH, SELF-ADHESIVE, WRAPAROUND TYPE WITH PREPRINTED NUMBERS AND LETTERS.
- ENGRAVED-PLASTIC LABELS, SIGNS, AND INSTRUCTION PLATES: ENGRAVING 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.
- FULL STRINGS: PROVIDE FULL 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 WALLS, PARTITIONS, CEILINGS, AND OTHER SURFACES REQUIRED TO PERMIT ELECTRICAL INSTALLATIONS. PERFORM CUTTING BY SKILLED MECHANICS OF TRADES INVOLVED.
- REPAIR, REFRESH AND TOUCH UP DISTURBED FINISH MATERIALS AND OTHER SURFACES TO MATCH ADJACENT UNDISTURBED SURFACES. PROVIDE UL-APPROVED PENETRATIONS OF FIRE WALLS TO MAINTAIN THE RATING OF THE ASSEMBLY.
- ALL WORK SHALL COMPLY WITH ALL CODES & STANDARDS LISTED ON THE PLANS.

## SECTION 16090 - GROUNDING AND BONDING

- ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED UNDER UL 487 AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.
- 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. INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS IN ALL FEEDERS AND BRANCH CIRCUITS. COMPLY WITH DIVISION 16 SECTION "CONDUCTORS AND CABLES" AND ASTM B, AS APPLICABLE.
- EQUIPMENT GROUNDING CONDUCTORS: INSULATED WITH GREEN-COLORED INSULATION.

## SECTION 16120 - CONDUCTORS AND CABLES

- 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. ALUMINUM ALLOWED WHERE SPECIFICALLY LISTED ON RISER.
- CONDUCTOR INSULATION TYPES: TYPE THIN-THIN COMPLYING WITH NEMA WC 5 OR 7.
- TYPE NH CABLE: NOT PERMITTED.
- TYPE MC CABLE: PERMITTED IN CONCEALED LOCATIONS WHERE ALLOWED BY CODE.
- SERVICE ENTRANCE, EXPOSED FEEDERS, AND FEEDERS CONCEALED IN CONCRETE OR BELOW SLAB OR BELOW GRADE: TYPE THIN-THIN, SINGLE CONDUCTORS IN RACEWAY.
- BRANCH CIRCUITS CONCEALED IN CEILINGS, WALLS, AND PARTITIONS: TYPE THIN-THIN, SINGLE CONDUCTORS IN RACEWAY; TYPE 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 DEGRADATE CONDUCTOR OR INSULATION. DO NOT EXCEED MANUFACTURER'S RECOMMENDED MAXIMUM PULLING TENSIONS AND SIDEWALL PRESSURE VALUES.
- INSTALL EXPOSED CABLES PARALLEL AND PERPENDICULAR TO SURFACES OF EXPOSED STRUCTURAL MEMBERS, AND FOLLOW SURFACE CONTOURS WHERE POSSIBLE.
- MAKE SPLICES AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL AND THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN UNSPLICED CONDUCTORS.
- WIRING AT OUTLETS: INSTALL CONDUCTOR AT EACH OUTLET, WITH AT LEAST 6 INCHES (150 MM) OF SLACK.

## SECTION 16130 - RACEWAYS AND BOXES

- 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.
- UNLESS OTHERWISE NOTED, PROVIDE NEMA 1 ENCLOSURES IN INDOOR LOCATIONS, NEMA 3R ENCLOSURES IN OUTDOOR LOCATIONS.
- MINIMUM RACEWAY SIZE: 1/2" TRADE SIZE.
- KEEP RACEWAYS AT LEAST 6 INCHES (150 MM) AWAY FROM PARALLEL RUNS OF HOT-WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER PIPING. PROTECT SUB-UPS FROM DAMAGE WHERE CONDUITS RISE THROUGH FLOOR SLABS. ARRANGE SO CURVED PORTIONS OF BENDS ARE NOT VISIBLE ABOVE FINISHED SLAB.
- 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 AND CEILINGS.
- INSTALL EXPOSED RACEWAYS PARALLEL OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS AND FOLLOW SURFACE CONTOURS AS MUCH AS POSSIBLE.
- FLEXIBLE CONNECTIONS: USE MAXIMUM OF 72 INCHES (1830 MM) OF FLEXIBLE CONDUIT FOR RECESSED AND SEMI-RECESSED LIGHTING FIXTURES; FOR EQUIPMENT SUBJECT TO VIBRATION, HOSE TRANSMISSION, OR MOVEMENT; AND FOR ALL NOTORS. USE LFM IN DAMP OR WET LOCATIONS. INSTALL SEPARATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS.

## SECTION 16140 - WIRING DEVICES

- 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.
- GFCI RECEPTACLES: STRAIGHT BLADE, HEAVY DUTY GRADE, WITH INTEGRAL NEMA WD 6, CONFIGURATION 5-2R DUPLEX RECEPTACLE; COMPLYING WITH UL 498 AND UL 943. DESIGN UNITS FOR INSTALLATION IN A 2-3/4-INCH-(70-MM)-DEEP OUTLET BOX WITHOUT AN ADAPTER.
- SINGLE- AND DOUBLE-POLE SWITCHES: COMPLY WITH DSCC W-C-896F AND UL 20.
- SNAP SWITCHES: HEAVY-DUTY GRADE, QUIET TYPE.
- FINISHES: WHITE, UNLESS OTHERWISE INDICATED OR REQUIRED BY NFPA 70.
- INSTALL DEVICES AND ASSEMBLIES LEVEL, PLUMB, AND SQUARE WITH BUILDING LINES.
- ARRANGEMENT OF DEVICES: UNLESS OTHERWISE INDICATED, MOUNT FLUSH, WITH LONG DIMENSION VERTICAL. GROUP ADJACENT SWITCHES UNDER SINGLE, MULTIGANG WALL PLATES.
- REMOVE WALL PLATES AND PROTECT DEVICES AND ASSEMBLIES DURING PAINTING. ADJUST LOCATIONS OF FLOOR SERVICE OUTLETS AND SERVICE POLES TO SUIT ARRANGEMENT OF PARTITIONS AND FURNISHINGS.
- AFTER INSTALLING WIRING DEVICES AND AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST FOR PROPER POLARITY, GROUNDING CONTINUITY, AND COMPLIANCE WITH REQUIREMENTS.
- TEST GFCI OPERATION WITH BOTH LOCAL AND REMOTE FAULT SIMULATIONS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

## SECTION 16410 - ENCLOSED SWITCHES

- 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.
- FIELD-COORDINATE EXACT LOCATION OF ALL SWITCHES WITH EQUIPMENT TO BE SERVED TO ENSURE M.E.C. CLEARANCES ARE OBSERVED.
- PROVIDE FUSES FOR ALL FUSED SWITCHES.
- ENCLOSED SWITCHES SHALL BE UL LISTED FOR THE APPLICATION USED; ENCLOSURES SHALL BE NEMA 1 FOR INDOORS, NEMA 3R FOR OUTDOORS.

## SECTION 16440 - PANELBOARDS

- MANUFACTURERS: PANELBOARDS SHALL BE MANUFACTURED BY SQUARE-D, CUTLER-HAMMER, GE, OR SIEMENS.
- ENCLOSURES: FLUSH- AND SURFACE-MOUNTED CABINETS, NEMA 1B 1, TYPE 1.
- PHASE AND GROUND BUSES: HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY.
- CONDUCTOR CONNECTORS: SUITABLE FOR USE WITH CONDUCTOR MATERIAL.
- FUTURE DEVICES: MOUNTING BRACKETS, BUS CONNECTIONS, AND NECESSARY APPURTENANCES REQUIRED FOR FUTURE INSTALLATION OF DEVICES.
- PANELBOARD SHORT-CIRCUIT RATING: SERIES 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.
- MOUNT TOP OF TRIP 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.
- PANELBOARD NAMEPLATES: LABEL EACH PANELBOARD WITH ENGRAVED METAL OR LAMINATED-PLASTIC NAMEPLATE MOUNTED WITH "RUSTION-RESISTANT" SCREWS.

## SECTION 16510 - LIGHTING

- LIGHTING FIXTURES: PER BUILDING LIGHTING FIXTURE STANDARD, NO EXCEPTIONS.
- UNLESS OTHERWISE INDICATED, FLUORESCENT BALLASTS SHALL BE ELECTRONIC, SOUND RATING A, AND 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.
- FIXTURES: SET LEVEL, PLUMB, AND SQUARE WITH CEILINGS AND WALLS. INSTALL LAMPS IN EACH FIXTURE.
- FOR EMERGENCY LIGHTING, PROVIDE UNSWITCHED NORMAL POWER CONDUCTOR AS INDICATED ON THE PLANS.

## SECTION 16721 - FIRE ALARM

- 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.
- THE FIRE ALARM SYSTEM SHALL BE INSTALLED, INSPECTED, TESTED AND CERTIFIED PER APPROPRIATE NFPA 12, 12A, 70, 72, 72E, 10A AND 10I. 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, CABLES, AND OTHER EQUIPMENT AS MAY BE NECESSARY TO EXTEND THE SYSTEM TO THE NEW DEVICES SHOWN TO BE ADDED.
- 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 PROJECT.
- EXISTING FIRE ALARM CONTROL PANEL IS A SILENT KNIGHT 528Q, LOCATED IN THE BASEMENT.
- THE FIRE ALARM CONTRACTOR SHALL APPLY FOR AND OBTAIN A SEPARATE PERMIT FOR ALL FIRE ALARM WORK.

# CODES AND STANDARDS

- NFPA 70 NATIONAL ELECTRICAL CODE (NEC), 2008 ED.
- NFPA 72 NATIONAL FIRE ALARM CODE, 2015 ED.
- FLORIDA FIRE PREVENTION CODE, 2007 EDITION.
- FLORIDA BUILDING CODE, 2007 ED, 2008/2009 SUPPLEMENTS.

CKT	DESCRIPTION	BKR	LOAD (KVA)			LOAD (KVA)			BKR	DESCRIPTION	CKT
			A	B	C	A	B	C			
1	EXISTING MAIN	400	3	-	-	-	-	-	225	NEW PANEL A	2
3	-	-	-	-	-	-	-	-	-	-	4
5	-	-	-	-	-	-	-	-	-	-	6
7	SPARE	225	3	-	-	-	-	-	-	SPACE	8
9	-	-	-	-	-	-	-	-	-	-	10
11	-	-	-	-	-	-	-	-	-	-	12
13	SPACE	-	-	-	-	-	-	-	-	-	14
15	-	-	-	-	-	-	-	-	-	-	16
17	-	-	-	-	-	-	-	-	-	-	18

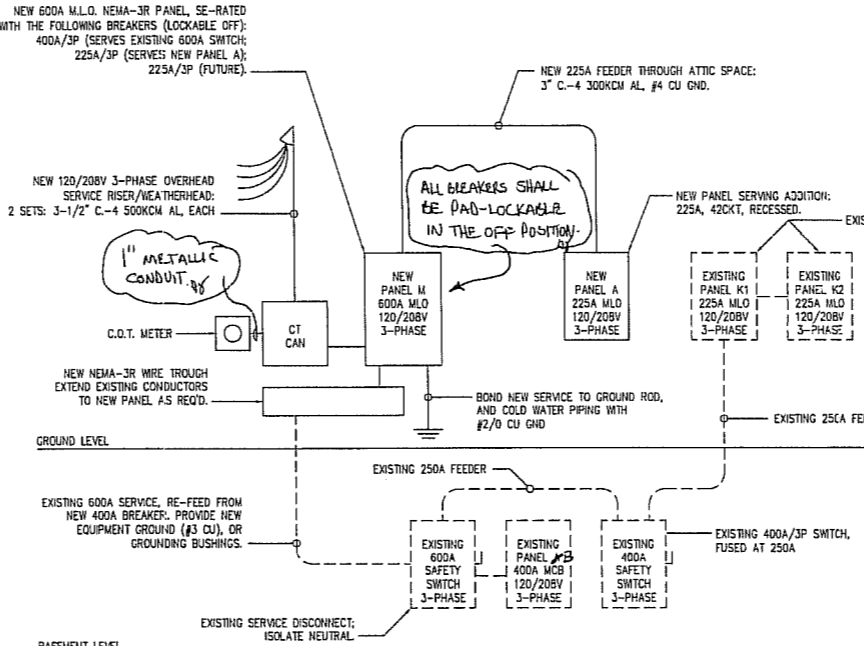
CONNECTED LOAD: -  
DEMAND LOAD: -

NOTE: PANEL SHALL BE SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT, AND SHALL HAVE NO MORE THAN (6) BRANCH BREAKERS. ALL BREAKERS SHALL BE LOCKABLE IN OFF POSITION.

CKT	DESCRIPTION	BKR	LOAD (KVA)			LOAD (KVA)			BKR	DESCRIPTION	CKT	
			A	B	C	A	B	C				
1	AHU-1	70	2	6.55	-	-	-	-	20	LTS-DISHWASH / STORAGE	2	
3	-	-	-	-	6.95	-	-	1.5	-	20	LTS-NEW DINING/STUDY	4
5	HP-1	50	2	-	-	4.1	-	0.7	20	LTS-EXTERIOR	6	
7	-	-	-	-	-	-	-	-	-	-	8	
9	AHU-2	70	2	-	6.3	-	-	-	20	SPACE	10	
11	-	-	-	-	-	-	-	-	20	SPACE	12	
13	HP-2	35	2	2.7	-	-	-	-	20	SPACE	14	
15	-	-	-	-	2.7	-	-	-	20	SPACE	16	
17	WALK-IN COOLER	20	2	-	1.2	-	-	-	15	SPACE	18	
19	-	-	-	1.2	-	-	-	-	-	SPACE	20	
21	DISH MACHINE	15	1	-	1.4	-	-	-	-	SPACE	22	
23	CHAIR LIFT	15	1	-	-	1.8	-	-	-	SPACE	24	
25	CHAIR LIFT	15	1	-	-	-	1.8	-	-	SPACE	26	
27	FREEZER	20	1	-	1.0	-	-	-	-	SPACE	28	
29	REC-FREEZER RM	20	1	-	0.18	-	-	-	-	SPACE	30	
31	REC-DISHWASH	20	1	1.1	-	-	-	-	-	SPACE	32	
33	REC-STUDY	20	1	-	0.54	-	-	-	-	SPACE	34	
35	REC-REAR	20	1	-	-	0.72	-	-	-	SPACE	36	
37	REC-EXTERIOR	20	1	-	0.36	-	-	-	-	SPACE	38	
39	SPACE	20	1	-	-	-	-	-	-	SPACE	40	
41	SPACE	20	1	-	-	-	-	-	-	SPACE	42	

CONNECTED LOAD: 53.9KVA / 149.7A \* - VERIFY EXACT BREAKER SIZE WITH EQUIPMENT MFG.

POWER ENGINEERING, INC.  
Entire Service Must Conform to N.E.C. and All Local Ordinances.



SERVICE LOAD CALCULATION PER NEC 220	
EXISTING BUILDING, MAXIMUM DEMAND, PER GARRET YOUNT, COT METER SHOP:	73.6KW
MAXIMUM KVA, ASSUMING POWER FACTOR OF 0.8:	92.0KVA
MAXIMUM KVA @ 125%:	115.0KVA
NEW LOAD:	
HVAC	39.3KVA
LIGHTING	3.2KVA
EQUIPMENT	6.4KVA
RECEPTACLES	2.9KVA
TOTAL NEW LOAD:	53.9KVA
TOTAL BUILDING SERVICE LOAD:	168.9KVA / 469.1A @ 120/208V

COT REVIEWED  
KENNY LOCKWOOD

PARTIAL POWER RISER  
NOT TO SCALE

- ELECTRICAL DRAWING LIST:
- E0.1 ELECTRICAL LEGEND, NOTES & RISER
  - E1.1 ELECTRICAL PLANS

RENOVATION / ADDITION  
**CHI OMEGA SORORITY**  
518 West Park Avenue  
TALLAHASSEE, FL

APPLIED RESEARCH & DESIGN, INC.  
3998 BRADFORDVILLE ROAD, STE. B  
TALLAHASSEE, FL, 32309  
(850) 668-6524 -- FAX (850) 668-6558  
FL EB#8948  
JAMES M. LAMB, PE#52688

Signature of James M. Lamb

REVISIONS		
NO.	DATE	DESCRIPTION

SHEET NAME: ELECTRICAL LEGEND, NOTES & RISER

PROJECT NUMBER: 1040  
DATE: 3/23/2011  
DRAWN BY: JML  
CHECKED BY: JML  
SHEET NUMBER: E0.1

**RENOVATION / ADDITION**  
**CHI OMEGA SORORITY**  
 518 West Park Avenue  
 TALLAHASSEE, FL

APPLIED RESEARCH & DESIGN, INC.  
 3998 BRADFORDVILLE ROAD, STE. B  
 TALLAHASSEE, FL, 32309  
 (850) 668-6324 -- FAX (850) 668-6358  
 FL EB#8948  
 JAMES M. LAMB, PE#52688

REVISIONS		
NO.	DATE	DESCRIPTION

SHEET NAME:  
**ELECTRICAL PLANS**

PROJECT NUMBER : 1040  
 DATE: 3/23/2011  
 DRAWN BY: JML  
 CHECKED BY: JML  
 SHEET NUMBER:

**E1.1**

**LIGHTING FIXTURE SCHEDULE**

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NO.	LAMPS
A	2 X 4 TROFFER	DAYBRITE	2SPG432-FS12-120EB	(2) F32T8
B	2 X 4 TROFFER	DAYBRITE	2SPG232-FS12-120EB	(4) F32T8
C	RECESSED CAN	CAPRI	CS6ICPL18QU-SR40CLR	(1) 18W CF
D	CLOSET LIGHT	DAYBRITE	CAN232-120EB	(2) F32T8
EX	EXIT SIGN	MCPHILBEN	CXXL3RB	-LED-
EM	EMERGENCY UNIT	MCPHILBEN	CAXGL40W20	(2) 20W MR16
F	CEILING FAN	HUNTER FAN	SEA AIR #23566 (PROVIDE DOWNROD AS REQ'D)	-
G	EXTERIOR WALL PACK	NITE BRITES	NWL100S12-LP (VERIFY SOURCE: MH/HPS)	(1) 100W HPS

**NOTES:**  
 1. PROVIDE LAMPS/BALLASTS WITH ALL FIXTURES.  
 2. PROVIDE ALL BOXES, BACKBOXES, SUPPORTS, FEEDS, TRIMS, STEMS, ROUGH-INS, BLOCKING AND HARDWARE AS MAY BE REQUIRED FOR INSTALLATION.  
 3. VERIFY CEILING TRIM & FINISH PRIOR TO ORDERING.  
 4. FIXTURES LISTED ARE BASIS-OF-DESIGN. SUBSTITUTE OR ALTERNATE FIXTURES MAY BE USED WITH OWNER APPROVAL.

**APPROVED AS NOTED**  
 ELECTRIC DEPARTMENT  
 CITY OF TALLAHASSEE

These plans have been approved for electrical service as noted. This approval does not relieve the applicant from responsibility to comply with all applicable codes, laws, and ordinances. Any changes to approved plans must be submitted for approval.

COMMENTS: **SHT E0.1**  
 DATE: **5-16-11** APPROVED BY: **[Signature]**

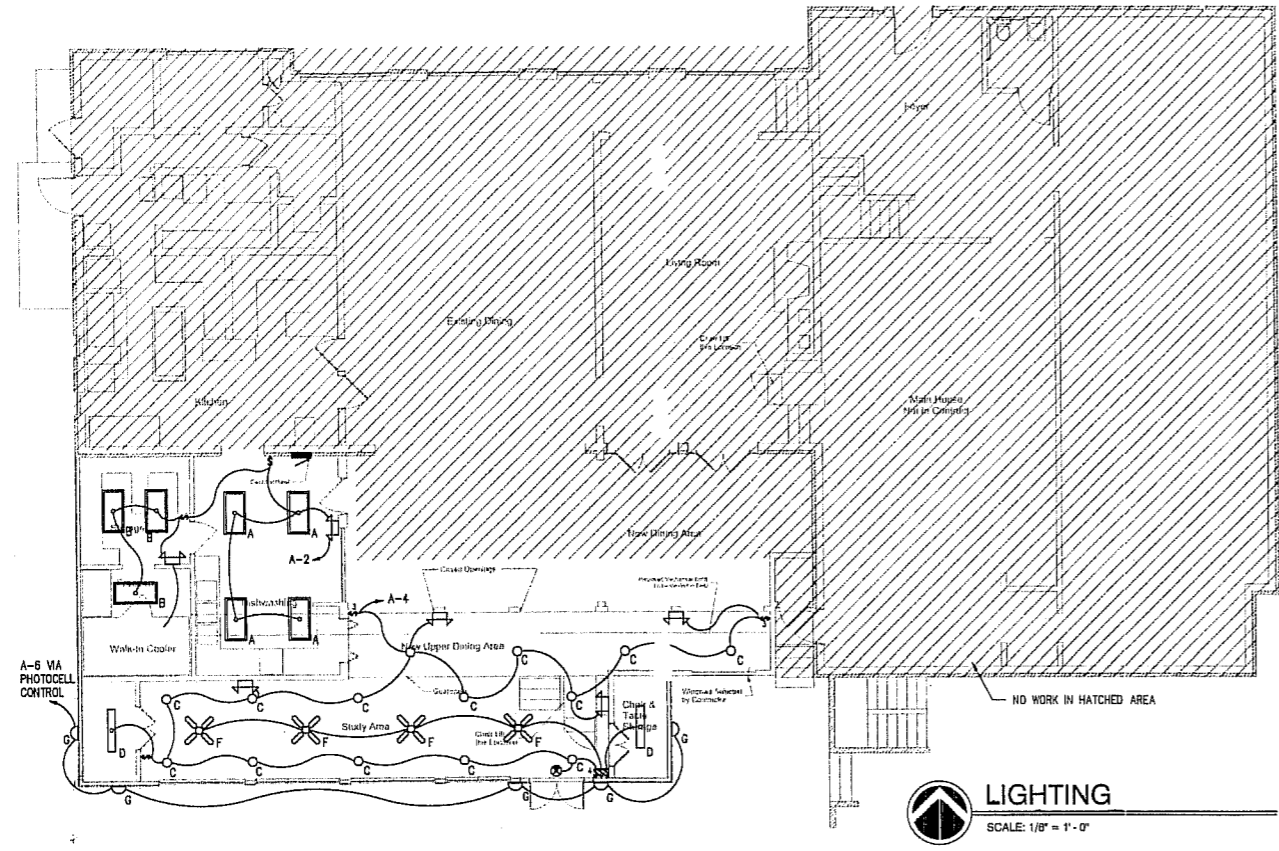
ELECTRIC DEPARTMENT  
 CITY OF TALLAHASSEE  
 Landscape shrubbery shall not block free access to power line easement. Minimum access to be 20 feet wide.

**POWER ENGINEERING, INC.**  
 Entire Service Must Conform to N.E.C. and All Local Ordinances.

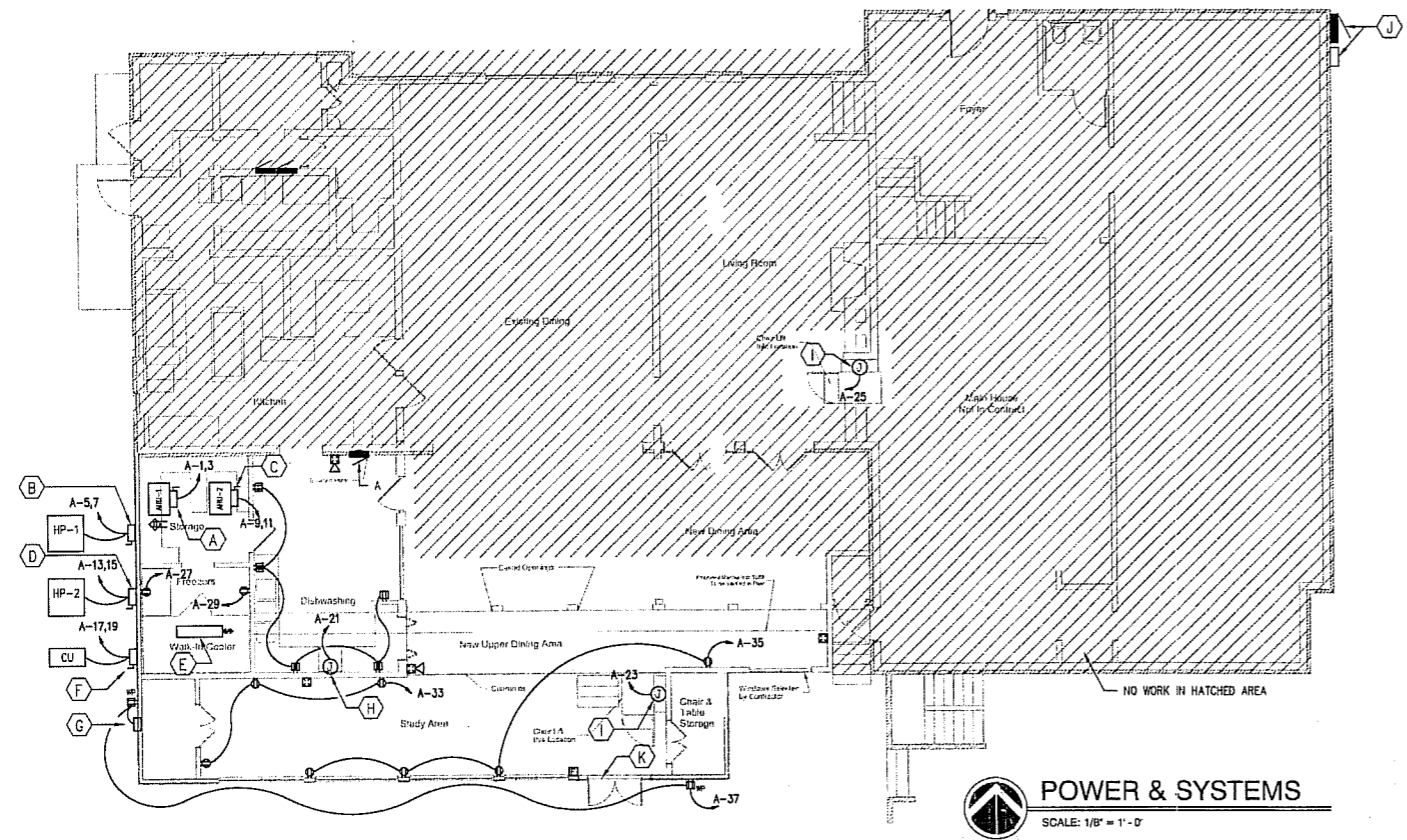
**WORK NOTES:**

- (A) PROVIDE NEW 100A/2P NEMA-1 N.F. SAFETY SWITCH, WITH 1" C-2 #6, #10 GND, TO PANEL.
- (B) PROVIDE NEW 60A/2P NEMA-1 N.F. SAFETY SWITCH, WITH 3/4" C-2 #8, #10 GND, TO PANEL.
- (C) PROVIDE NEW 100A/2P NEMA-1 N.F. SAFETY SWITCH, WITH 1" C-2 #6, #10 GND, TO PANEL.
- (D) PROVIDE NEW 60A/2P NEMA-1 N.F. SAFETY SWITCH, WITH 3/4" C-2 #8, #10 GND, TO PANEL.
- (E) WALK-IN COOLER FAN-COIL, WITH INTEGRAL DISCONNECT. CIRCUIT TO NEW UNSWITCHED LIGHTING CIRCUIT WITH 2 #12, #12 GND (NOT SHOWN).
- (F) WALK IN COOLER CONDENSER: PROVIDE NEW 30A/2P NEMA-3R N.F. SAFETY SWITCH, 15A FUSES, WITH 3/4" C-2 #12, #12 GND, TO PANEL.
- (G) PROVIDE CONTROL POWER TO NEW GAS WATER-HEATER UNIT.
- (H) PROVIDE CONNECTION TO NEW DISH MACHINE.
- (I) PROVIDE CONNECTION TO NEW CHAIR-LIFT (WITH INTEGRAL DISCONNECT). FIELD COORDINATE EXACT LOCATION AND ROUGH-IN REQUIREMENTS FOR POWER AND CONTROLS.
- (J) NEW PANEL MDP AND CT CAN; SEE RISER DIAGRAM FOR EQUIPMENT REQUIREMENTS.
- (K) COORDINATE ROUGH-IN OF SECURITY AND ACCESS CONTROLS WITH OWNER'S SECURITY VENDOR.

**GCT REMOVED**  
 (REMOVED)



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



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



## 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.
- COLOR ADHESIVE MARKING TAPE FOR RACEWAYS, WRES, 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.
- ENGRAVED-PLASTIC LABELS, SIGNS, AND INSTRUCTION PLATES: ENGRAVING 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 WALLS, PARTITIONS, CEILINGS, AND OTHER SURFACES REQUIRED TO PERMIT ELECTRICAL INSTALLATIONS. PERFORM CUTTING BY SKILLED MECHANICS OF TRADES INVOLVED.
- REPAIR, REFINISH, AND TOUCH UP DISTURBED FINISH MATERIALS AND OTHER SURFACES TO MATCH ADJACENT UNDISTURBED SURFACES. PROVIDE UL-APPROVED PENETRATIONS OF FIRE WALLS, TO MAINTAIN THE RATING OF THE ASSEMBLY. ALL WORK SHALL COMPLY WITH ALL CODES & STANDARDS LISTED ON THE PLANS.

### SECTION 16060 - GROUNDING AND BONDING

- ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED UNDER UL 467 AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.
- 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. INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS IN ALL FEEDERS AND BRANCH CIRCUITS. COMPLY WITH DIVISION 16 SECTION "CONDUCTORS AND CABLES" AND ASTM B, AS APPLICABLE.
- EQUIPMENT GROUNDING CONDUCTORS: INSULATED WITH GREEN-COLORED INSULATION.

### SECTION 16120 - CONDUCTORS AND CABLES

- 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. ALUMINUM ALLOWED WHERE SPECIFICALLY LISTED ON RISER.
- CONDUCTOR INSULATION TYPES: TYPE THIN-THIN COMPLYING WITH NEMA WC 5 OR WC 7.
- TYPE NM CABLE: NOT PERMITTED.
- TYPE MC CABLE: PERMITTED IN CONCEALED LOCATIONS WHERE ALLOWED BY CODE.
- SERVICE ENTRANCE, EXPOSED FEEDERS, AND FEEDERS CONCEALED IN CONCRETE OR BELOW SLAB OR BELOW GRADE: TYPE THIN-THIN, SINGLE CONDUCTORS IN RACEWAY.
- BRANCH CIRCUITS CONCEALED IN CEILINGS, WALLS, AND PARTITIONS: TYPE THIN-THIN, SINGLE CONDUCTORS IN RACEWAY; TYPE 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 TENSIONS AND SIDEWALL PRESSURE VALUES.
- INSTALL EXPOSED CABLES PARALLEL AND PERPENDICULAR TO SURFACES OF EXPOSED STRUCTURAL MEMBERS, AND FOLLOW SURFACE CONTOURS WHERE POSSIBLE.
- MAKE SPLICES AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL AND THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN UNSPLICED CONDUCTORS.
- WIRING AT OUTLETS: INSTALL CONDUCTOR AT EACH OUTLET, WITH AT LEAST 6 INCHES (150 MM) OF SLACK.

### SECTION 16130 - RACEWAYS AND BOXES

- 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.
- UNLESS OTHERWISE NOTED, PROVIDE NEMA 1 ENCLOSURES IN INDOOR LOCATIONS, NEMA 3R ENCLOSURES IN OUTDOOR LOCATIONS.
- MINIMUM RACEWAY SIZE: 1/2" TRADE SIZE.
- KEEP RACEWAYS AT LEAST 6 INCHES (150 MM) AWAY FROM PARALLEL RUNS OF HOT-WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER PIPING. PROTECT STUB-UPS FROM DAMAGE WHERE CONDUITS RISE THROUGH FLOOR SLABS. ARRANGE SO CURVED PORTIONS OF BENDS ARE NOT VISIBLE ABOVE FINISHED SLAB.
- 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 EXIT WITHIN FINISHED WALLS AND CEILINGS.
- INSTALL EXPOSED RACEWAYS PARALLEL OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS AND FOLLOW SURFACE CONTOURS AS MUCH AS POSSIBLE.
- 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.

### SECTION 16140 - WIRING DEVICES

- 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.
- GFCI RECEPTACLES: STRAIGHT BLADE, HEAVY-DUTY GRADE WITH INTEGRAL NEMA WD 6, CONFIGURATION 5-20R DUPLEX RECEPTACLE, COMPLYING WITH UL 498 AND UL 943. DESIGN UNITS FOR INSTALLATION IN A 2-3/4-INCH-(70-MM)-DEEP OUTLET BOX WITHOUT AN ADAPTER.
- SINGLE- AND DOUBLE-POLE SWITCHES: COMPLY WITH DSCC W-C-896F AND UL 20.
- SNAP SWITCHES: HEAVY-DUTY GRADE, QUIET TYPE.
- FINISHES: WHITE, UNLESS OTHERWISE INDICATED OR REQUIRED BY NFPA 70.
- INSTALL DEVICES AND ASSEMBLIES LEVEL, PLUMB, AND SQUARE WITH BUILDING LINES.
- ARRANGEMENT OF DEVICES: UNLESS OTHERWISE INDICATED, MOUNT FLUSH, WITH LONG DIMENSION VERTICAL. GROUP ADJACENT SWITCHES UNDER SINGLE, MULTIBAND WALL PLATES.
- REMOVE WALL PLATES AND PROTECT DEVICES AND ASSEMBLIES DURING PAINTING.
- ADJUST LOCATIONS OF FLOOR SERVICE OUTLETS AND SERVICE POLES TO SUIT ARRANGEMENT OF PARTITIONS AND FURNISHINGS.
- AFTER INSTALLING WIRING DEVICES AND AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST FOR PROPER POLARITY, GROUND CONTINUITY, AND COMPLIANCE WITH REQUIREMENTS.
- TEST GFCI OPERATION WITH BOTH LOCAL AND REMOTE FAULT SIMULATIONS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

### SECTION 16410 - ENCLOSED SWITCHES

- 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.
- FIELD-COORDINATE EXACT LOCATION OF ALL SWITCHES WITH EQUIPMENT TO BE SERVED TO ENSURE N.E.C. CLEARANCES ARE OBSERVED.
- PROVIDE FUSES FOR ALL FUSED SWITCHES.
- ENCLOSED SWITCHES SHALL BE UL LISTED FOR THE APPLICATION USED; ENCLOSURES SHALL BE NEMA 1 FOR INDOORS, NEMA 3R FOR OUTDOORS.

### SECTION 16442 - PANELBOARDS

- 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.
- FUTURE DEVICES: MOUNTING BRACKETS, BUS CONNECTIONS, AND NECESSARY APPURTENANCES REQUIRED FOR FUTURE INSTALLATION OF DEVICES.
- PANELBOARD SHORT-CIRCUIT RATING: SERIES RATED TO INTERRUPT SYMMETRICAL SHORT-CIRCUIT CURRENT AVAILABLE AT TERMINALS.
- MAIN OVERCURRENT PROTECTIVE DEVICES: CIRCUIT BREAKER.
- MAIN DISCONNECT BREAKER: UL 489, WITH INTERRUPTING CAPACITY TO MEET AVAILABLE FAULT CURRENTS.
- 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 FUSIBLE PLATES IN UNUSED SPACES.
- PANELBOARD NAMEPLATES: LABEL EACH PANELBOARD WITH ENGRAVED METAL OR LAMINATED-PLASTIC NAMEPLATE MOUNTED WITH CORROSION-RESISTANT SCREWS.

### SECTION 16511 - LIGHTING

- LIGHTING FIXTURES: PER BUILDING LIGHTING FIXTURE STANDARD, NO EXCEPTIONS.
- 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.
- FIXTURES: SET LEVEL, PLUMB, AND SQUARE WITH CEILINGS AND WALLS. INSTALL LAMPS IN EACH FIXTURE.
- FOR EMERGENCY LIGHTING, PROVIDE UNSWITCHED NORMAL POWER CONDUCTOR AS INDICATED ON THE PLANS.

### SECTION 16721 - FIRE ALARM

- 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.
- 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 ADDED.
- 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 PROJECT.
- EXISTING FIRE ALARM CONTROL PANEL IS A SILENT KNIGHT 5283, LOCATED IN THE BASEMENT.
- THE FIRE ALARM CONTRACTOR SHALL APPLY FOR, AND OBTAIN, A SEPARATE PERMIT FOR ALL FIRE ALARM WORK.

CKT DESCRIPTION	BKR	LOAD (KVA)			LOAD (KVA)			BKR	DESCRIPTION	CMT
		A	B	C	A	B	C			
1 EXISTING MAIN	400	3						225	3	NEW PANEL A
2										
3										
4										
5										
6										
7 SPARE	225	3								SPACE
8										
9										
10										
11										
12										
13 SPARE										SPACE
14										
15										
16										
17										

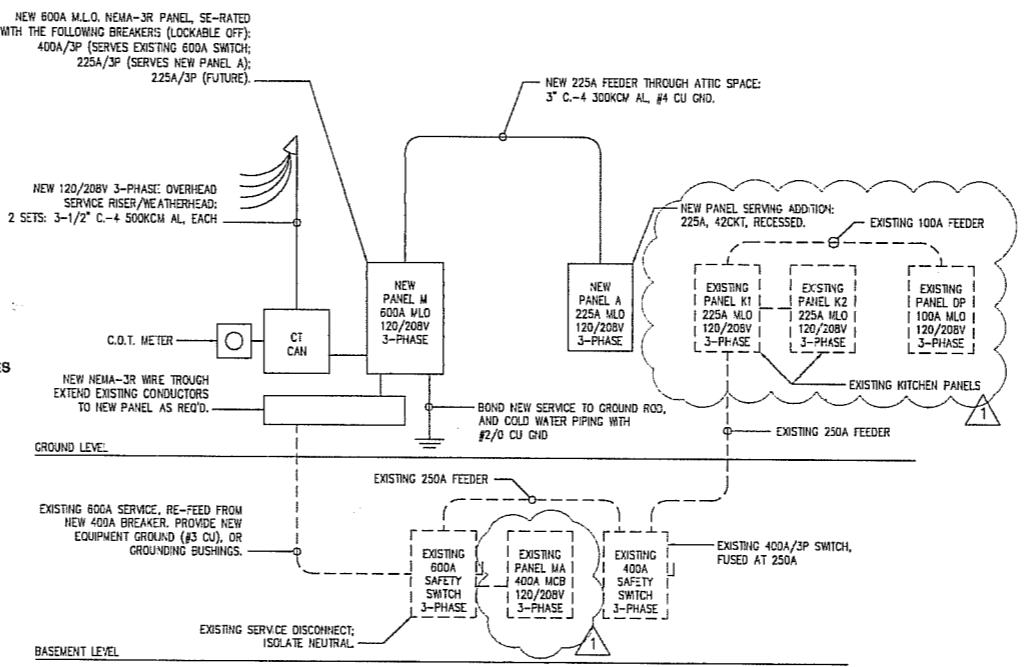
CONNECTED LOAD: -  
DEMAND LOAD: -

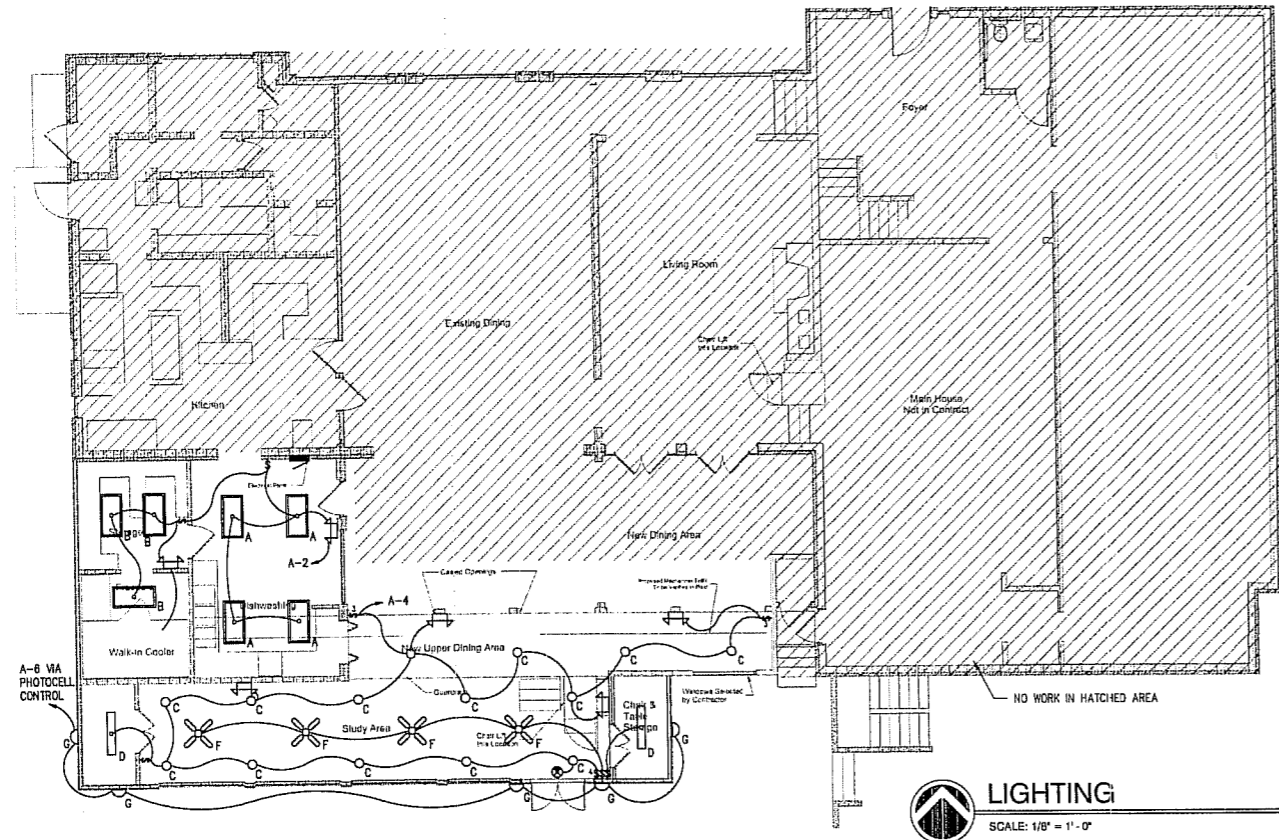
CMT DESCRIPTION	BKR	LOAD (KVA)			LOAD (KVA)			BKR	DESCRIPTION	CMT
		A	B	C	A	B	C			
1 AHU-1	70	2	6.55		1.1			20	11	LIS-DISHWASH / STORAGE
2				6.55				20	11	LIS-NEW DINING/STUDY
3								20	11	LIS-EXTERIOR
4 HP-1	50	2		4.1			0.7	20	11	SPARE
5								20	11	SPARE
6 AHU-2	70	2		6.3				20	11	SPARE
7								20	11	SPARE
8								20	11	SPARE
9 HP-2	35	2	2.7					20	11	SPARE
10								20	11	SPARE
11								20	11	SPARE
12 WALK-IN COOLER	20	2		1.2				15	11	SPARE
13								20	11	SPARE
14								20	11	SPARE
15								20	11	SPARE
16								20	11	SPARE
17								20	11	SPARE
18								20	11	SPARE
19								20	11	SPARE
20								20	11	SPARE
21								20	11	SPARE
22								20	11	SPARE
23								20	11	SPARE
24								20	11	SPARE
25								20	11	SPARE
26								20	11	SPARE
27								20	11	SPARE
28								20	11	SPARE
29								20	11	SPARE
30								20	11	SPARE
31								20	11	SPARE
32								20	11	SPARE
33								20	11	SPARE
34								20	11	SPARE
35								20	11	SPARE
36								20	11	SPARE
37								20	11	SPARE
38								20	11	SPARE
39								20	11	SPARE
40								20	11	SPARE
41								20	11	SPARE
42								20	11	SPARE

CONNECTED LOAD: 53.9KVA / 149.7A      \* - VERIFY EXACT BREAKER SIZE WITH EQUIPMENT MOC.

## LEGEND

- 120V/20A DUPLEX RECEPTACLE, MOUNTED 18" A.F.F. PROVIDE WHITE DEVICE & COVER.
- 120V/20A DUPLEX GFI RECEPTACLE, MOUNTED 18" A.F.F. PROVIDE WHITE DEVICE & COVER. \*WP INDICATES WEATH-ERPROOF-IN-USE COVER.
- 120V/20A DUPLEX GFI RECEPTACLE, MOUNTED 44" A.F.F. PROVIDE WHITE DEVICE & COVER.
- NEW SINGLE-POLE 277V/20A QUIET-TYPE SNAP SWITCH, MOUNT 44" A.F.F. \*3" INDICATES 3-WAY SWITCH; \*4" INDICATES 4-WAY SWITCH.
- NEW CONDUIT OUTLET, PROVIDE DEEP SINGLE-GANG DEVICE BOX, 18" A.F.F., WITH 3/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING. PROVIDE BLANK COVERPLATE. CABLING BY OTHERS.
- FIRE ALARM AUDIBLE/STROBE DEVICE, 75CD MINIMUM.
- FIRE ALARM STROBE DEVICE, 75CD MINIMUM.
- NEW FIRE-ALARM DUCT SMOKE DETECTOR, WITH REMOTE INDICATOR AND SHUTDOWN RELAY.
- 2 X 4 (2-LAMP F32T8) ACRYLIC LENSED LAY-IN FLUORESCENT LIGHTING FIXTURE, DAYBRITE #2SPG232, OR APPROVED EQUAL. VERIFY FIXTURE SELECTIONS WITH OWNER PRIOR TO ORDERING.
- NEW EMERGENCY LIGHTING WALL-PACK, EQUAL TO MCPHILBEN VE.
- LED EXIT SIGN WITH INTEGRAL BATTERY & INVERTER. NEW FIXTURES SHALL BE EQUAL TO MCPHILBEN CXKL3RW. PROVIDE UNSWITCHED HOT CONDUCTOR.
- BRANCH CIRCUIT WIRE IN CONDUIT, MINIMUM WIRE SIZE #12 AWG, THWN/THHN INSULATION WITH #12 EQUIPMENT GROUND, IN 3/4" MINIMUM E.M.T. ALL WIRING SHALL BE CONCEALED IN FLOOR OR CEILING. PROVIDE FLEX (6 FT MAX) CONNECTION TO LIGHTING FIXTURES. MC CABLE ALLOWED IN CONCEALED LOCATIONS.
- NEW EXHAUST FAN, WITH INTEGRAL DISCONNECT, FIELD COORDINATE LOCATION WITH MECHANICAL.
- NEW ENCLOSED SAFETY SWITCH. SEE WORK NOTES AND/OR RISER FOR RATING, POLES, AND ENCLOSURE TYPE.
- ELECTRICAL PANEL. SEE PANEL SCHEDULE FOR REQUIREMENTS.





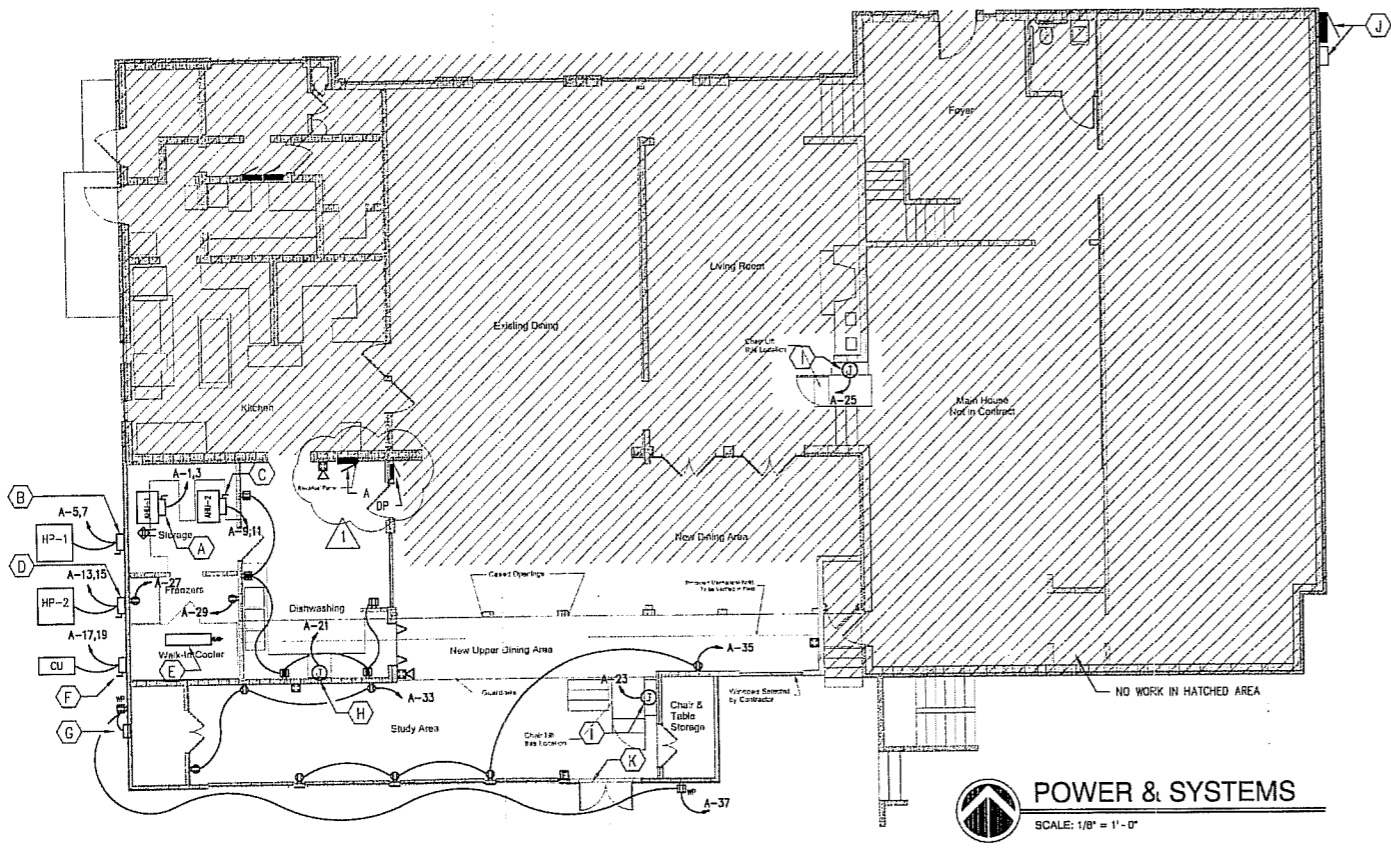
# LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NO.	LAMPS
A	2 X 4 TROFFER	DAYBRITE	2SPG432-FS12-120EB	(2) F32TB
B	2 X 4 TROFFER	DAYBRITE	2SPG232-FS12-120EB	(4) F32TB
C	RECESSED CAN	CAPRI	CS6ICPL18QU-SR40CLR	(1) 18W CF
D	CLOSET LIGHT	DAYBRITE	CAN232-120EB	(2) F32TB
EX	EXIT SIGN	MCPHILBEN	CXXL3RB	-LED-
EM	EMERGENCY UNIT	MCPHILBEN	CAX6L40W20	(2) 20W MR16
F	CEILING FAN	HUNTER FAN	SEA AIR #23566 (PROVIDE DOWNROD AS REQ'D)	-
G	EXTERIOR WALL PACK	NITE BRITES	NWL100S12-LP (VERIFY SOURCE: MH/HPS)	(1) 100W HPS

**NOTES:**  
 1. PROVIDE LAMPS/BALLASTS WITH ALL FIXTURES.  
 2. PROVIDE ALL BOXES, BACKBOXES, SUPPORTS, FEEDS, TRIMS, STEMS, ROUGH-INS, BLOCKING AND HARDWARE AS MAY BE REQUIRED FOR INSTALLATION.  
 3. VERIFY CEILING TRIM & FINISH PRIOR TO ORDERING.  
 4. FIXTURES LISTED ARE BASIS-OF-DESIGN. SUBSTITUTE OR ALTERNATE FIXTURES MAY BE USED WITH OWNER APPROVAL.

**RENOVATION / ADDITION**  
**CHI OMEGA SORORITY**  
 518 West Park Avenue  
 TALLAHASSEE, FL

**APPLIED RESEARCH & DESIGN, INC.**  
 3998 BRADFORDVILLE ROAD, STE. B  
 TALLAHASSEE, FL, 32309  
 (850) 668-6324 -- FAX (850) 668-6358  
 FL EB#8948  
 JAMES M. LAMB, PE#52688



### WORK NOTES:

- (A) PROVIDE NEW 100A/2P NEMA-1 N.F. SAFETY SWITCH, WITH 1" C.-2 #12 GND, TO PANEL.
- (B) PROVIDE NEW 60A/2P NEMA-1 N.F. SAFETY SWITCH, WITH 3/4" C.-2 #8, #10 GND, TO PANEL.
- (C) PROVIDE NEW 100A/2P NEMA-1 N.F. SAFETY SWITCH, WITH 1" C.-2 #12 GND, TO PANEL.
- (D) PROVIDE NEW 60A/2P NEMA-1 N.F. SAFETY SWITCH, WITH 3/4" C.-2 #8, #10 GND, TO PANEL.
- (E) WALK-IN COOLER FAN-COIL, WITH INTEGRAL DISCONNECT. CIRCUIT TO NEW UNSWITCHED LIGHTING CIRCUIT WITH 2 #12, #12 GND (NOT SHOWN).
- (F) WALK IN COOLER CONDENSER: PROVIDE NEW 30A/2P NEMA-3R N.F. SAFETY SWITCH, 15A FUSES, WITH 3/4" C.-2 #12, #12 GND, TO PANEL.
- (G) PROVIDE CONTROL POWER TO NEW GAS WATER-HEATER UNIT.
- (H) PROVIDE CONNECTION TO NEW DISH MACHINE.
- (I) PROVIDE CONNECTION TO NEW CHAIR-LIFT (WITH INTEGRAL DISCONNECT). FIELD COORDINATE EXACT LOCATION AND ROUGH-IN REQUIREMENTS FOR POWER AND CONTROLS.
- (J) NEW PANEL MDP AND CT CAN; SEE RISER DIAGRAM FOR EQUIPMENT REQUIREMENTS.
- (K) COORDINATE ROUGH-IN OF SECURITY AND ACCESS CONTROLS WITH OWNER'S SECURITY VENDOR.

**COT REVENED**  
 KENNY WOOD

*Change to #4 cu  
 new 100A cu 4" 5/9/11  
 JML*

REVISIONS		
NO.	DATE	DESCRIPTION
Δ	4/19/11	RESPONSE TO C.O.T.

SHEET NAME:  
**ELECTRICAL PLANS**  
 PROJECT NUMBER: 1040  
 DATE: 3/23/2011  
 DRAWN BY: JML  
 CHECKED BY: JML  
 SHEET NUMBER:

**RECEIVED RESUBMITTAL**  
 MAY 05 2011  
 City of Tallahassee  
 Building Inspection Division

**E1.1**

DINING ROOM EXPANSION  
FOR:

GAMMA CHAPTER OF  
CHI OMEGA SORORITY  
FLORIDA STATE UNIVERSITY  
Tallahassee, Florida

Vertical accessibility shall be provided to all levels,  
otherwise a waiver thereof shall be provided prior to  
Certificate Of Completion.

**SHEET FP-1 WAS PROVIDED FOR INFORMATION ONLY!**  
Fire sprinkler system contractor shall submit a separate  
permit application and plans for review.

*Approved  
with  
Conditions  
5-23-2011*

RECEIVED FOR CODE COMPLIANCE  
CITY OF TALLAHASSEE  
BUILDING INSPECTION DIVISION  
This review does not relieve the applicant  
from the responsibility of compliance with all  
applicable codes, laws and ordinances. Any  
changes to reviewed plans must be  
submitted for review.

TBR #: 110534  
Address: 611 W. Jefferson St  
Type: Other  
Code Version: 2007 IBC/ASUP  
Add Note on Sheet: CHL 1000 R-10  
Shell Permits: D Y E N



5032 CAPITAL CIRCLE SW, SUITE 2 & 3  
TALLAHASSEE, FLORIDA 32302  
850-222-2022 PHONE  
www.hdg-architects.com

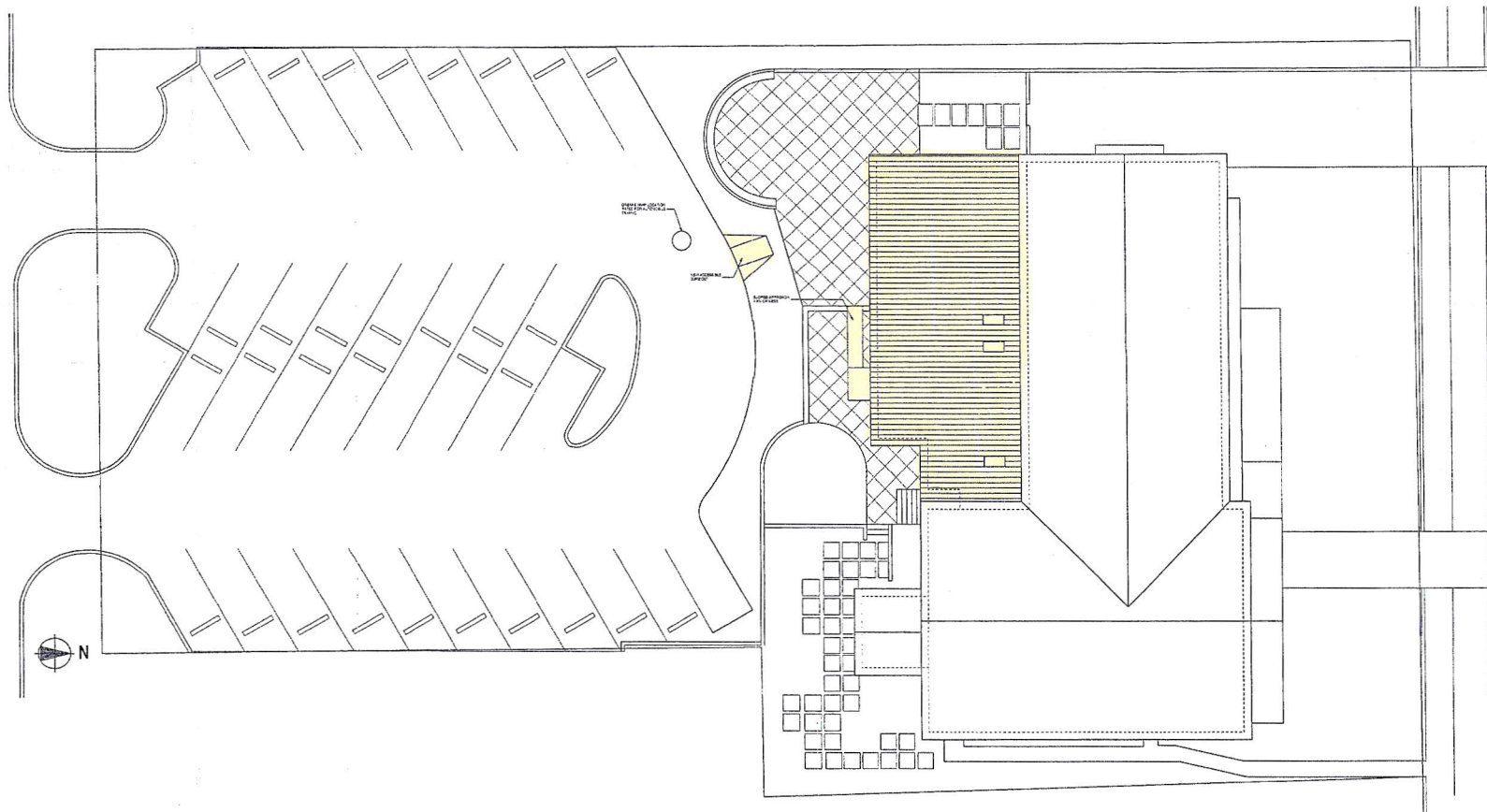
CONSULTANTS  
 Dining Room Expansion  
 for Gamma Chapter of  
 Chi Omega Sorority at FSU  
 TALLAHASSEE, FLORIDA

REVISIONS	

DATE       # March 2011  
DRAWN     # RSH  
CHECKED   # RSH  
JOB NO.   # HDG 2919

DRAWING





1 Proposed Site Plan  
Scale: 1" = 10'

**HAMMOND**  
*Design*  
**GROUP, LLC**  
ARCHITECTS

5032 CAPITAL CIRCLE SW, SUITE 200 • 3RD  
TALLAHASSEE, FLORIDA 32310  
850-222-2292 PHONE  
www.hdgarch.com

COORDINATORS

**Dining Room Expansion  
for Gamma Chapter of  
Chi Omega Sorority at FSU**  
TALLAHASSEE, FLORIDA

**Site Plan**

REVISIONS


DATE           • March 2011  
DRAWN       • RSH  
CHECKED     • RSH  
JOB NO.      • HDG 2019

DRAWING

**A-6**

CONSULTANTS

**Dining Room Expansion  
for Gamma Chapter of  
Chi Omega Sorority at FSU**  
TALLAHASSEE, FLORIDA

**Floor Plan**

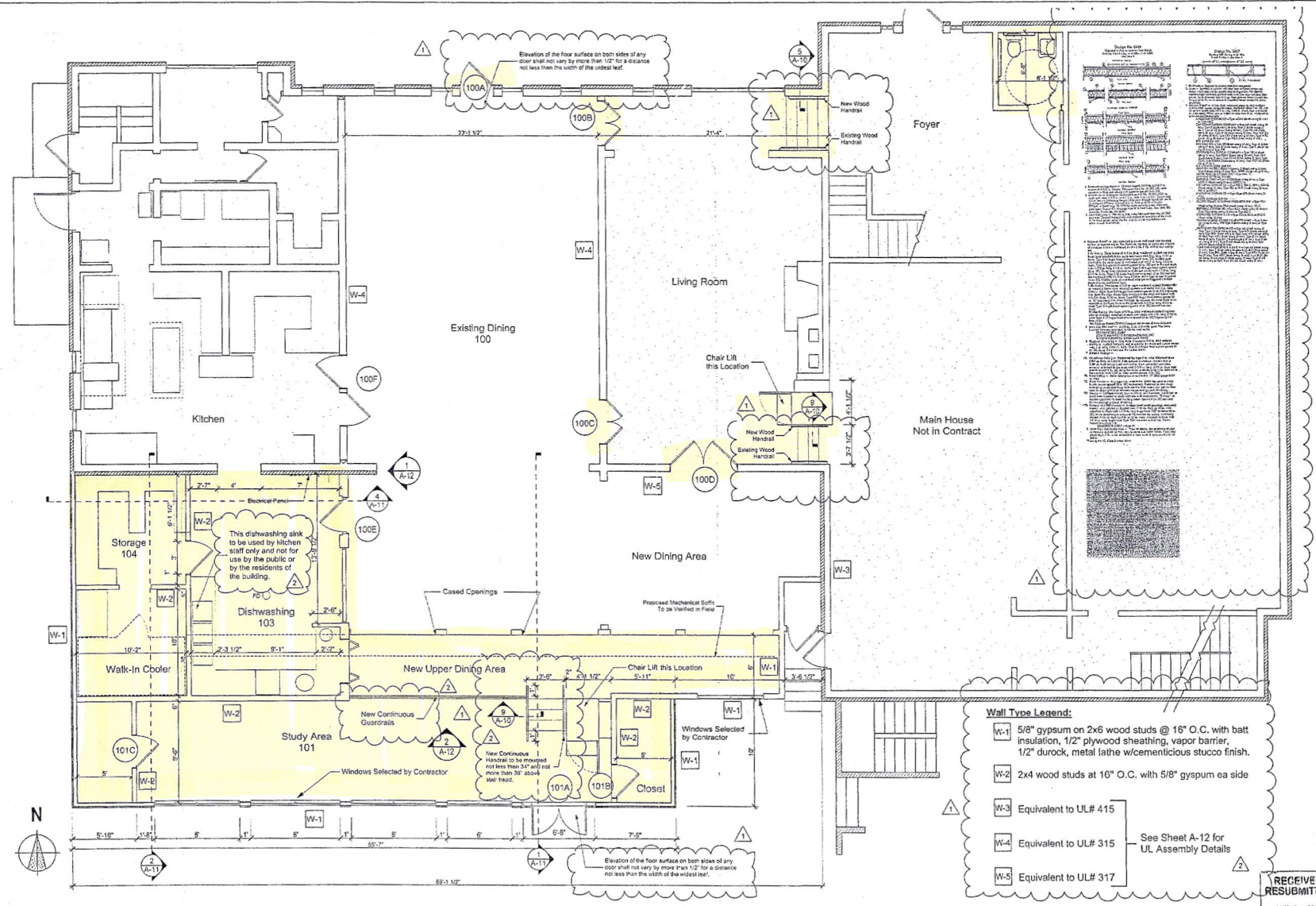
REVISIONS

1	5/8/11	Building Review Comments
2	5/18/11	Building Review Comments

DATE = March 2011  
DRAWN = RSH  
CHECKED = RSH  
JOB NO. = HDG 2919

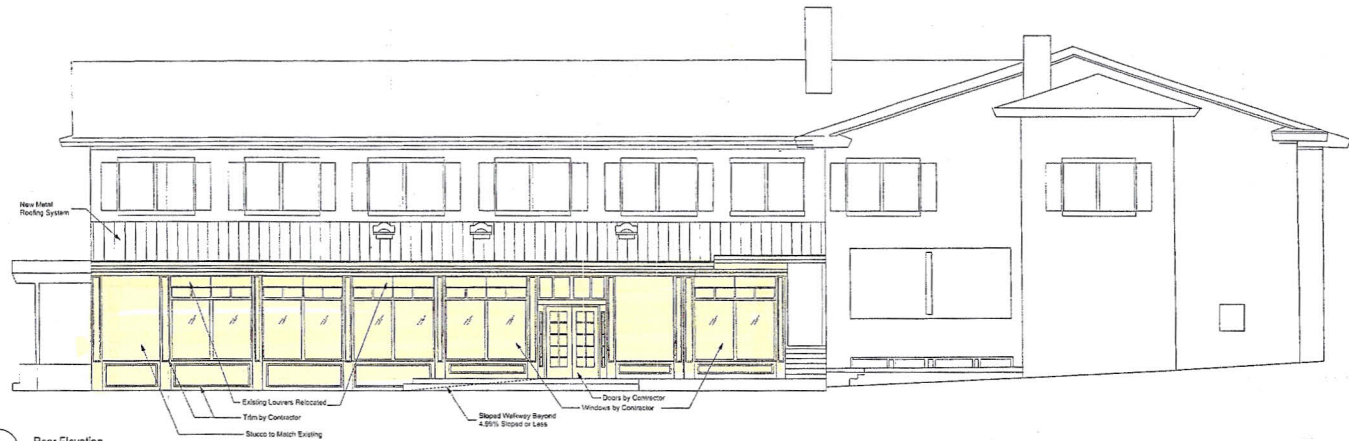
RECEIVED  
RESUBMITTAL  
MAY 20 2011  
City of Tallahassee  
Public Inspection Division

DRAWING  
**A-8**

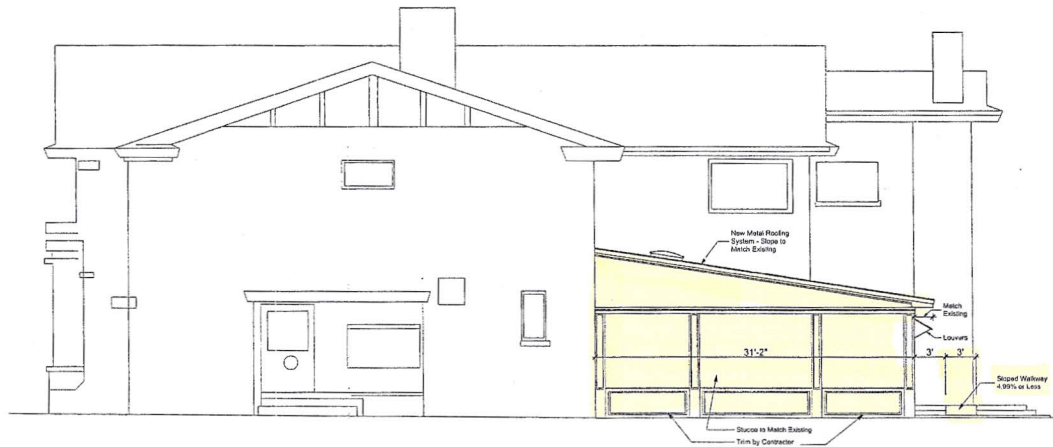


1 Floor Plan  
Scale: 1/4" = 1'-0"

DATE PLOTTED: 5/18/11 10:53 AM



1 Rear Elevation  
Scale:



2 Side Elevation  
Scale:

CONSULTANTS

**Dining Room Expansion  
for Gamma Chapter of  
Chi Omega Sorority at FSU**  
TALLAHASSEE, FLORIDA  
**Exterior Elevations**

REVISIONS

NO.	DATE	DESCRIPTION

DATE     • March 2011  
DRAWN   • RSH  
CHECKED • RSH  
JOB NO.   • HDG 2919

DRAWING

**A-9**

CONSULTANTS

REVISIONS

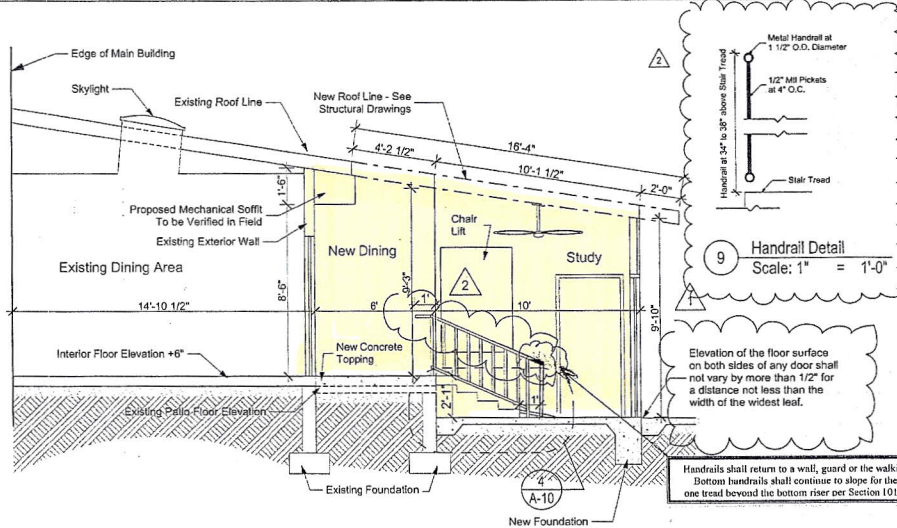
1	5/5/11	Building Review Comments
2	5/16/11	Building Review Comments

DATE • March 2011  
DRAWN • RSH  
CHECKED • RSH  
JOB NO. • HDG 2919

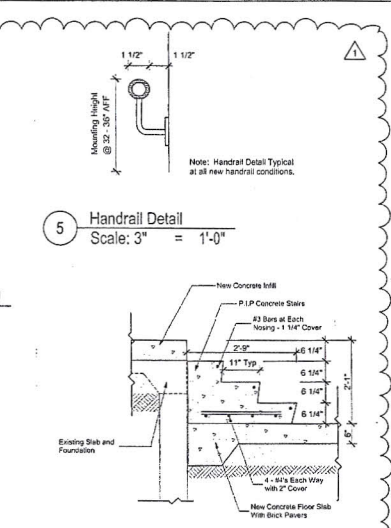
5/11/2011

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City of Tallahassee  
Building Inspection Division

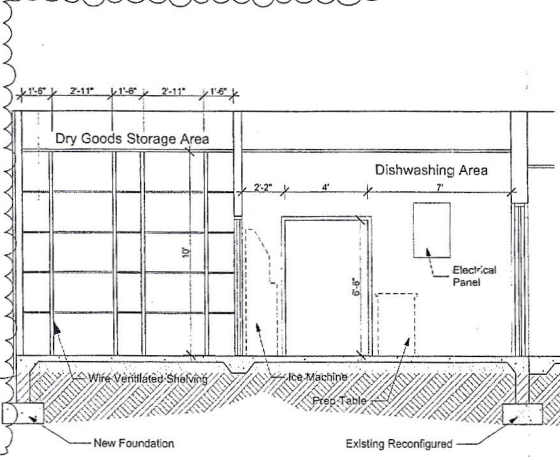
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**A-10**



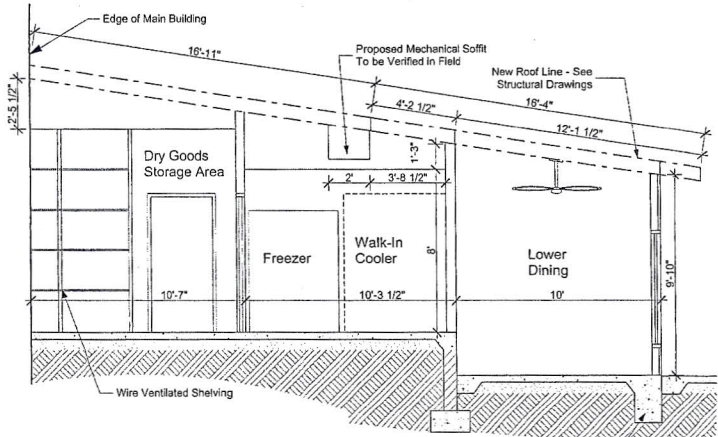
1 Section at Dining Room  
Scale: 3/8" = 1'-0"



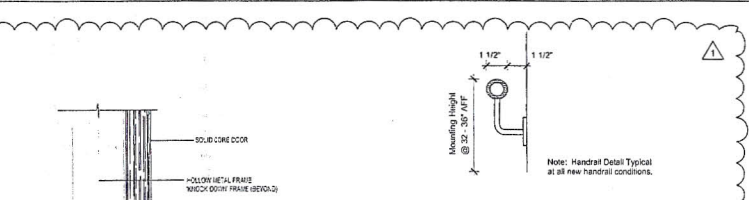
4 Stair Detail  
Scale: 3/4" = 1'-0"



3 Section @ Beverage Counter  
Scale: 3/8" = 1'-0"

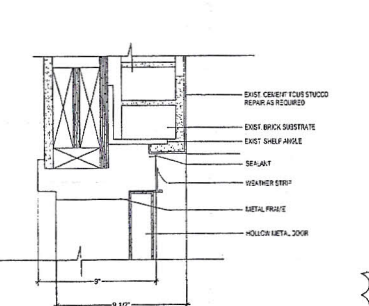


2 Section at Walk-In Cooler  
Scale: 3/8" = 1'-0"

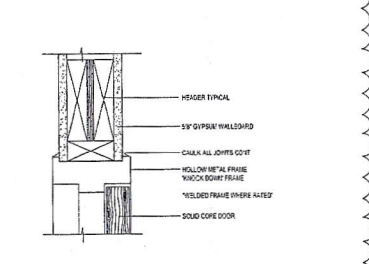


5 Handrail Detail  
Scale: 3" = 1'-0"

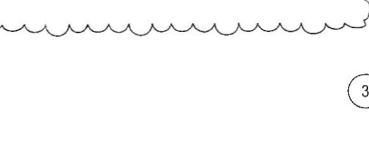
6 TYPICAL EXT. DOOR THRESHOLD  
A-10 SCALE: 3" = 1'-0"



7 DETAIL @ EXT. DOOR HEAD  
A-10 SCALE: 3" = 1'-0" JAMES SHILAR



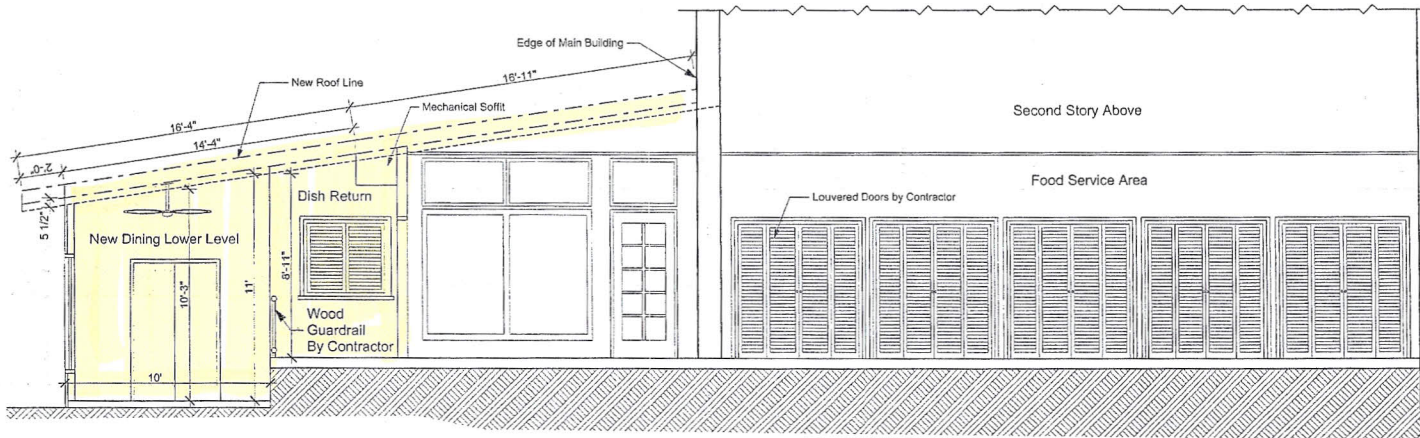
8 TYPICAL INT. DOOR HEAD  
A-10 SCALE: 3" = 1'-0" JAMES SHILAR



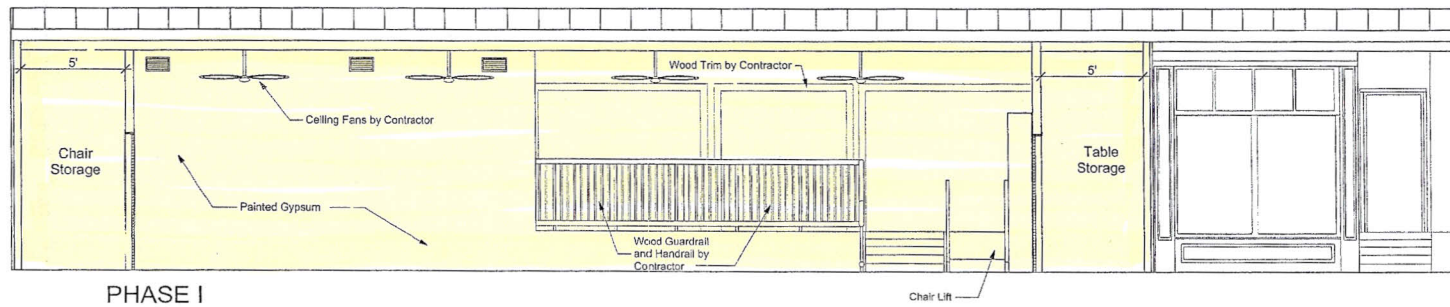
Elevation of the floor surface on both sides of any door shall not vary by more than 1/2" for a distance not less than the width of the widest leaf.

Handrails shall return to a wall, guard or the walking surface. Bottom handrails shall continue to slope for the depth of one tread beyond the bottom riser per Section 10112.5, FRC-3.





1 Dining Room Elevation  
Scale: 3/8" = 1'-0"



2 Lower Dining Elevation  
Scale: 3/8" = 1'-0"

**HAMMOND**  
*Design*  
**GROUP, LLC**  
**ARCHITECTS**

533 CAPITAL CIRCLE, SUITE 2 & 3  
TALLAHASSEE, FLORIDA 32310  
850-232-2062 PHONE  
WWW.HDG-ARCHITECTS.COM

CONSULTANTS

Dining Room Expansion  
for Gamma Chapter of  
Chi Omega Sorority at FSU  
TALLAHASSEE, FLORIDA  
Interior Elevations

REVISIONS

NO.	DATE	DESCRIPTION

DATE = March 2011  
DRAWN = RSH  
CHECKED = RSH  
JOB NO. = HDG 2019

DRAWING

**A-11**

**Chi Omega Sorority House ( Costs Associated with H/C Improvements)**

<b>Item</b>	<b>Elements Involved</b>	<b>Quantity</b>	<b>Cost</b>	<b>Total</b>
<b>Driveway Curb Cut</b>				
	Demo Current Conc. (S.F.)	36	\$25.00	\$900.00
	Labor to form, misc. materials and conc. (S.F.)	36	\$4.00	\$144.00
<b>Sloped Sidewalk less than 5%</b>				
	Demo Current Conc. (S.F.)	48	\$25.00	\$1,200.00
	Labor to form and Materials (L.F.)	18	\$450.00	\$8,100.00
<b>Vertical Lift New Addition</b>				
	Provide and Install (Lump Sum)	1	\$8,500.00	\$8,500.00
	Electrical Modifications (Lump Sum)	1	\$1,000.00	\$1,000.00
<b>Vertical Lift Exist. Structure</b>				
	Demo Exist. Bldg. Components (Lump Sum)	1	\$750.00	\$750.00
	Prep Prior to Install (Lump Sum)	1	\$750.00	\$750.00
	Install Vertical Lift (Lump Sum)	1	\$8,500.00	\$8,500.00
	Floor Repair, Trim & Paint (Lump Sum)	1	\$500.00	\$500.00
	Electrcal Modifications (Lump Sum)	1	\$1,800.00	\$1,800.00
<b>Install new doors and Hardware</b>				
	Provide and Install 3'-0" solid core Wood Doors	6	\$210.00	\$1,260.00
	Provide H/C Compliant Hardware	6	\$545.00	\$3,270.00
	Rated Mtl Frames	6	\$250.00	\$1,500.00
	Provide and Install DBL 3'-0" Doors	4	\$425.00	\$1,700.00
	Provide H/C Hardware w/panic devices	4	\$735.00	\$2,940.00
	Rated Mtl Frames	4	\$285.00	\$1,140.00
<b>Bathroom Modifications for H/C Compliance</b>				
	Provide and Install Grab Bars	2	\$125.00	\$250.00
	Wall Modifications L.F.	24	\$16.00	\$384.00
	Repair floor, trim and Paint (Lump Sum)	1	\$500.00	\$500.00
<b>Reverse the Swing of the Main Entry Door</b>				
	Remove Existing 3-6 Inward Swinging Door	1	\$900.00	\$900.00
	Prep for Install of new Door	1	\$500.00	\$500.00
	New Door	1	\$2,675.00	\$2,675.00
	New Hardware w/Panic Device	1	\$650.00	\$650.00
	Trim and Paint (Lump Sum)	1	\$650.00	\$650.00
<b>Install Handrails at Stairs</b>				
	Exist. Stairs (MTL Rail 2 at Lift Stair 1 at Other Stair)	3	\$900.00	\$2,700.00
	New Stairs	2	\$900.00	\$1,800.00
<b>Removal of Construction Debris (Lump Sum)</b>				
		1	\$2,000.00	\$2,000.00
<b>Total Cost of Improvements Associated with H/C</b>				\$56,963.00
<b>Total Projected Costs</b>				\$275,000.00
<b>Percentage of H/C Improvements to Total Projected Costs =</b>		\$56,963.00	\$275,000.00	<b>0.207138182</b>

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