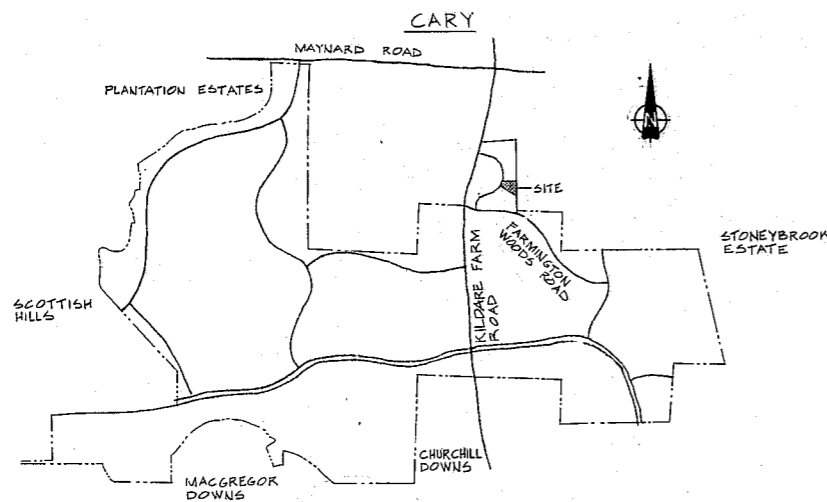


# MARK EDWARDS STUDIOS

CARY, NORTH CAROLINA



VICINITY PLAN

## ENERGY DATA

### PROJECT DATA:

Occupancy Group B  
 Thermal Zone III  
 Building Gross Area 2200 GSF  
 Number of Stories 1

COOLING: BTU/Hr /GSF  
 Building Heat Gain - including Outside Air 32.7  
 Total Installed Terminal Cooling Capacity (Coils) 36.9  
 Total Installed Primary Cooling Capacity (Compressors) 36.9

HEATING:  
 Building Heat Loss - including Outside Air 2.6  
 Total Installed Terminal Heating Capacity (Coils) 4.2  
 Total Installed Primary Heating Capacity (Boilers, etc.) 4.2

LIGHTING: W/GSF  
 Total Lighting 4.72

NOTE: DUE TO SPECIAL USE OF BUILDING VS BUILDING SQUARE FOOTAGE, W/GSF EXCEEDS N.C. CODE ALLOWABLE.

### BUILDING ENERGY PERFORMANCE CRITERIA - ENERGY SUMMARY:

LOAD	CONNECTED LOAD/GSF (W or BTU/Hr)	ENERGY CONSUMING LOAD/GSF (W or BTU/Hr)
Interior Lighting		
Decorative Exterior Lighting		
HVAC Auxiliaries		
Water Heating		
Heating/Cooling		
Swimming Pool Heating		
Humidification		

TOTAL  
 Allotment from Table V

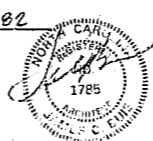
### THERMAL ENVELOPE CRITERIA

Total Exterior Above - Grade Gross Wall Area ( $A_G$ )	1849	S.F.
Total Glass Area ( $A_G$ )	213	S.F.
Net Wall Area ( $A_W$ )	1636	S.F.
Wall U-Value ( $U_W$ )	0.07	BTU/Hr - Ft <sup>2</sup> - °F [See Section for derivation of wall U-factor ( $U_W$ )]
Glass U-Value ( $U_G$ )	0.65	BTU/Hr - Ft <sup>2</sup> - °F
Glass Type	DOUBLE	
Overall Wall U-Value ( $U_o$ )	0.13	BTU/Hr - Ft <sup>2</sup> - °F
Roof Area ( $A_R$ )	2275	S.F.
Roof U-Factor ( $U_R$ )	0.06	BTU/Hr - Ft <sup>2</sup> - °F
Total Floor Area over Unheated Space ( $A_p$ )	N/A	S.F.
Floor U-Value ( $U_f$ )	N/A	BTU/Hr - Ft <sup>2</sup> - °F
Slab-on-grade edge insulation ("R" Value)	5.13	

### DESIGNER'S STATEMENT:

To the best of my knowledge and belief, the design of this building complies with the applicable requirements of Chapter 32 of the North Carolina State Building Code.

Date 2-26-82 Signed [Signature]  
 Name JAMES C. BUIE, AIA  
 Title PRESIDENT  
JAMES C. BUIE ARCHITECT INC.



## OWNER-SPONSOR

MARK EDWARDS STUDIO  
 134 W. CHATHAM ST.  
 CARY, N.C. 27511

PHONE: (919) 467-3070

## ARCHITECT

JAMES C BUIE  
 ARCHITECT INC

SUITE 115 3700 NATIONAL DRIVE RALEIGH N.C. 27612 919 781 4873

## ENGINEER

CHARLES D WILLIAMS  
 3605 TURNBRIDGE DR  
 RALEIGH, NC 27609

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These drawings are Instruments of Service and as such are the property of the Architect. Upon completion of the work all drawings except the Contract copies are to be returned to the Architect.

## SYMBOLS

EARTH	FINISHED WOOD
CRUSHED STONE	WOOD BLOCKING
CONCRETE	PLYWOOD
CONCRETE MASONRY UNIT	STUD WALL PARTITION
BRICK	RIGID INSULATION
STEEL - LARGE SCALE	BATT INSULATION
STONE	COLUMN LINE INDICATOR
SECTION INDICATOR 2/32 section number sheet number	F-3 FINISH NUMBER
ELEVATION INDICATOR 2/32 elevation number sheet number	13 DOOR NUMBER
DETAIL INDICATOR 2/32 detail number sheet number	B WINDOW TYPE
	ELEVATION INDICATOR

## INDEX

L-1	SITE PLAN
S-1	FOUNDATION PLAN
S-2	ROOF FRAMING PLAN
A-1	FLOOR PLAN
A-2	EXTERIOR ELEVATIONS
A-3	FINISHING ROOM PLAN & ELEVATIONS
A-4	DARK ROOM PLAN & ELEVATIONS
A-5	BUILDING SECTION
A-6	WALL SECTIONS & DETAILS
P-1	PLUMBING PLAN
M-1	HEATING & AC PLAN
E-1	POWER & LIGHTING PLAN

EP-10