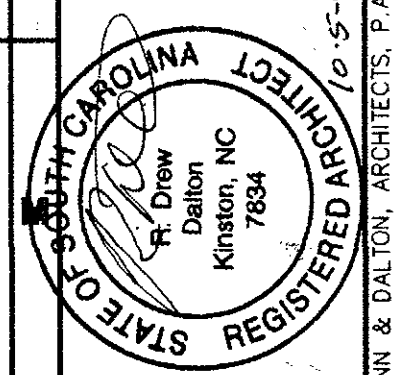


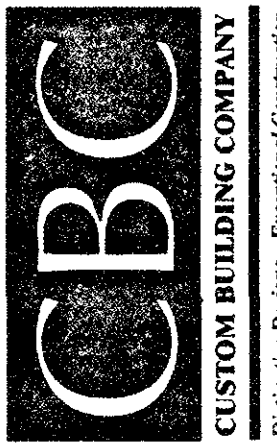
MILLER MOTTE

Conway, South Carolina



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Conway, South Carolina

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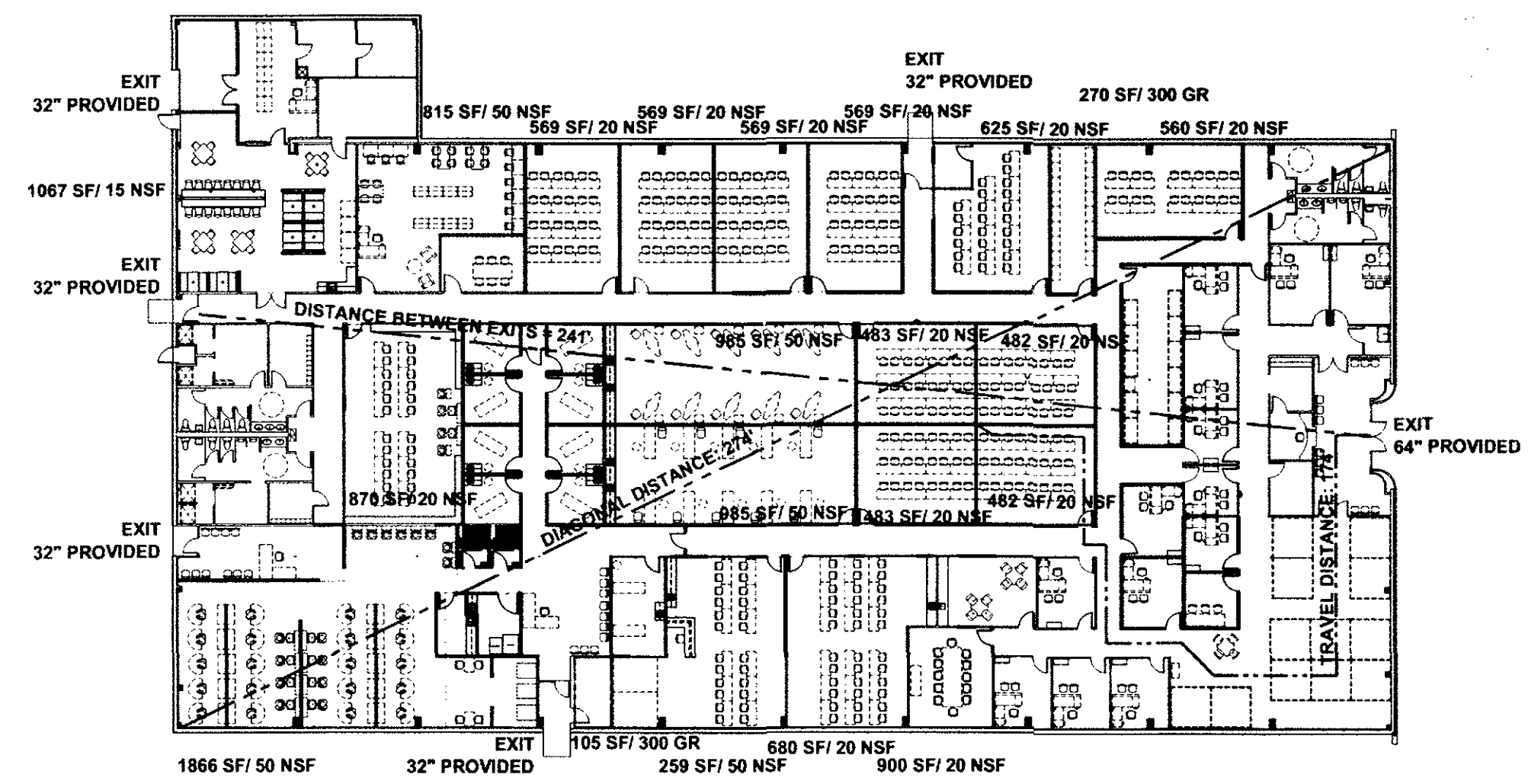


DUNN & DALTON
ARCHITECTS

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Kinston, North Carolina 28501
252-527-0049 fax
252-527-1523

Issue Date: 10/5/09
Revisions:

GO.1



11J LIFESAFETY PLAN
SCALE: 1" = 30'

BUILDING CODE SUMMARY

Name of Project: MILLER MOTTE
Address: 2451 Hwy. 501 East, Conway, South Carolina
Proposed Use: BUSINESS (EDUCATIONAL OCCUPANCIES ABOVE THE 12TH GRADE)
Owner/Authorized Agent: PETE WEST Phone # 252-752-4220 E-mail:
Owned By: City/County Private State
Code Enforcement Jurisdiction: City County Horry State
LEAD DESIGN PROFESSIONAL: R. DREW DALTON
DESIGNER: FIRM: DUNN & DALTON ARCHITECTS NAME: R. DREW DALTON LICENSE # 7834 TELEPHONE # 252-527-1523 E-mail:
Architectural: ATLANTEC ENGINEERING JIM DELPAPA 23336 919-571-1111
Civil: ATLANTEC ENGINEERING JIM DELPAPA 23336 919-571-1111
Electrical: ATLANTEC ENGINEERING JIM DELPAPA 23336 919-571-1111
Fire Alarm: ATLANTEC ENGINEERING JIM DELPAPA 23336 919-571-1111
Plumbing: ATLANTEC ENGINEERING JIM DELPAPA 23336 919-571-1111
Mechanical: ATLANTEC ENGINEERING JIM DELPAPA 23336 919-571-1111
Sprinkler-Standpipe: ATLANTEC ENGINEERING JIM DELPAPA 23336 919-571-1111
Structural: ATLANTEC ENGINEERING JIM DELPAPA 23336 919-571-1111
Retaining Walls-S High: ATLANTEC ENGINEERING JIM DELPAPA 23336 919-571-1111
Other: ATLANTEC ENGINEERING JIM DELPAPA 23336 919-571-1111

2006 EDITION IBC: New Construction Addition Upfit
 Reconstruction Alteration Repair
CONSTRUCTED: 1996 ORIGINAL USE: Business RENOVATED: CURRENT USE: Business

BUILDING DATA

Construction Type: I-A II-A III-A IV V-A
 I-B II-B III-B V-B
Mixed construction: No Yes Types: _____
Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Yes Class I II III Wet Dry
Fire District: No Yes Flood Hazard Area: No Yes
Building Height: 23 Feet 1 Number of Stories
Mezzanine: No Yes
Gross Building Area: Note: 1. Gross area indicates space measured from outside walls. 2. Net area indicates the outside to outside measurements of all conditioned spaces.

FLOOR	EXISTING(SQ.FT.)	NEW(SQ.FT.)	SUB-TOTAL
5th Floor			
4th Floor			
3rd Floor			
2nd Floor			
Mezzanine			
1st Floor	31,451	0	31,451 SF
Basement			
Total:	31,451		Total Gross Building Area: 31,451 SF

ALLOWABLE AREA

Primary Occupancy: A-1 A-2 A-3 A-4 A-5
 Business Educational Factory F-1 Moderate F-2 Low
Hazardous: H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5-HPM
Institutional: I-1 I-2 I-3 I-4
I-3 Condition: 1 2 3 4 5
 Mercantile R-1 R-2 R-3 R-4
Storage: S-1 Moderate S-2 Low High-piled
 Utility and Miscellaneous Parking Garage Open Enclosed Repair Garage
Secondary Occupancy:
Special Uses: 402 403 404 405 406 407 408 409 410 411
 412 413 414 415 416 417 418 419 420 421
Special Provisions: 508.2 508.3 508.4 508.5 508.6 508.7 508.8
Mixed Occupancy: NO Yes Separation: _____ Hr. Exception: _____
 Incidental Use Separation (508.2) Non-separated Use (508.3.2)
 Separated Use (508.3.3) (See below for area calculations)
Actual Area of Occupancy A + Actual Area of Occupancy B
Allowable Area of Occupancy A + Allowable Area of Occupancy B ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) TABLE 503.1 AREA	(C) AREA FOR FRONTAGE INCREASE ¹	(D) AREA FOR SPRINKLER INCREASE ²	(E) ALLOWABLE AREA ON UNLIMITED ³	(F) MAXIMUM BUILDING AREA ⁴
1	B-BUSINESS	31,451 SF	23,000 SF	17,250	69,000	86,250	86,250

- Frontage area increases from Section 506.2 are computed thus:
 - Perimeter which fronts a public way or open space having 20 feet minimum width = 796 (F)
 - Total Building Perimeter = 796 (P)
 - Ratio (F/P) = 1 (F/P)
 - W = Minimum width of public way = 30 (W)
 - Percent of frontage increase $I = 100 (F/P - 0.25) \times W/30 = 75 (\%)$
- The sprinkler increase per Section 506.3 is as follows:
 - Multi-story building $I_s = 200$ percent
 - Single story building $I_s = 300$ percent
- Unlimited area applicable under conditions of Sections Group B, F, M, S, A, 4 (507); Group A Motion Picture (507.9); Malls (402.6); and H-2 aircraft paint hangars (507.7)
- Maximum Building Area = total number of stories in the building x E but not greater than 3 x E. (506.4)
- The maximum area of parking garages must comply with 406.3. The maximum area of air traffic control towers must comply with 412.2.

ALLOWABLE HEIGHT

Type of Construction	Type	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet	Feet	55	Feet + 20 = 75	Feet	503
Building Height in Stories	Stories	4	Stories + 1 = 5	Stories	503

FIRE PROTECTION REQUIREMENTS

LIFE SAFETY PLAN SHEET # 11J GO.1

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RECD.	RATING PROVIDE (W/ REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural frame including columns, girders, trusses		0 HR					
Bearing walls							
Exterior							
North		0 HR					
East		0 HR					
West		0 HR					
South		0 HR					
Interior		0 HR					
Nonbearing walls and partitions							
Exterior walls							
North	> 30'	0 HR					
East	> 30'	0 HR					
West	> 30'	0 HR					
South	> 30'	0 HR					
Interior walls and partitions		0 HR					
Floor construction including supporting beams and joists		N/A					
Roof construction including supporting beams and joists		0 HR					
Shafts Enclosures - Exit		N/A					
Shafts enclosures - Other		N/A					
Corridor Separation		0 HR					
Occupancy Separation		N/A					
Party/Fire Wall Separation		N/A					
Smoke Barrier Separation		N/A					
Tenant Separation		N/A					
Incidental Use Separation STORAGE > 100 SF LABORATORIES / VOCATIONAL LABS		1 HR	0 HR / 508.2				

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: (1006.1) No Yes Smoke Detector Systems: (907.2.2) No Yes
Exit Signs: (1011.1) No Yes Panic Hardware: (1008.1.2) No Yes
Fire Alarm: (907.2.2) No Yes

EXIT REQUIREMENTS NUMBER AND ARRANGEMENT OF EXITS

FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM NUMBER OF EXITS		TRAVEL DISTANCE		ARRANGEMENT MEANS OF EGRESS ² (SECTION 1015.2)	
	REQUIRED	SHOWN ON PLANS	ALLOWABLE TRAVEL (FT) DISTANCE 1016.1	ACTUAL TRAVEL (FT) ON PLANS	REQD. DIST. BETWEEN EXIT DOORS	ACTUAL DISTANCE ON PLANS
BUSINESS	3	6	300'	174'	91'	241'

- Corridor dead ends (Section 1017.3)
- Single exits (Table 1019.2)
- Common Path of Travel (Section 1014.3)

EXIT WIDTH

USE GROUP OR SPACE DESIGNATION	(a) AREA ¹ SQ. FT.	(b) AREA ¹ PER OCCUPANT TABLE 1004.1.1	Calculated Occupant Load	EGRESS WIDTH PER OCCUPANT TABLE 1005.1		EXIT WIDTH (in.) ^{2,3,4,5,6}	
				STAIR	LEVEL	REQUIRED WIDTH SECTION 1005.1 (a) (b) x c	ACTUAL WIDTH ON PLANS
BUSINESS	17,258	100 G	172	N/A	15	N/A	110"
CLASSROOM	7,841	20 NET	392				
VOCATIONAL ROOM	4,095	50 NET	82				
LIBRARY	815	50 NET	16				
ASSEMBLY (TABLES)	1,067	15 NET	71				
STORAGE	375	300 G	1				
TOTAL	31,451		734				224"

- See Table 1004.1.1 to determine whether net or gross area is applicable. (See definition 'Area, Gross' and 'Area, Net' (Section 1002)
- Minimum stairway width (Section 1005.1), min. corridor width (Section 1016.2), min. door width (Section 1018.1)
- Minimum width of exit passageway (Section 1020.2)
- See Section 1004.5 for converging exits.
- The loss of one means of egress shall not reduce the available capacity to less than 50 percent of the total required (Section 1005.1)
- Assembly occupancies (Section 1024)

PLUMBING FIXTURE REQUIREMENTS

USE	WATER CLOSETS		URINALS	LAVATORIES		SHOWERS/TUBS	DRINKING FOUNTAINS	
	MALE	FEMALE		MALE	FEMALE		REGULAR	ACCESSIBLE
REQUIRED (734 OCC)	1/25 FIRST 50	1/50 REMAINING	1/40-80	1/80 REMAIN	N/A	251-500=3	1/500 REMAIN	
EXISTING	8	8	4	6	7	4	2	
NEW	1	1	0	1	1	0	0	
TOTAL	9	9	4	7	8	4	2	

INDEX OF DRAWINGS

GENERAL

GO.1 TITLE SHEET

ARCHITECTURAL

- D1.1 DEMOLITION FLOOR PLAN
A0.1 DOOR SCHEDULE, WINDOW TYPES, & TOILET PLAN ENLARGEMENTS
A1.1 DIMENSIONED FLOOR PLAN
A1.2 REFERENCE FLOOR PLAN
A1.3 REFLECTED CEILING PLAN
A4.1 INTERIOR ELEVATIONS

PLUMBING

- P1.1 WATER PIPING PLAN
P1.2 WASTE PIPING PLAN
P2.1 ENLARGED PLUMBING PLAN
P3.1 RISER DIAGRAM
P4.1 FIXTURE SCHEDULES
P4.2 DETAILS, LEGEND, AND NOTES

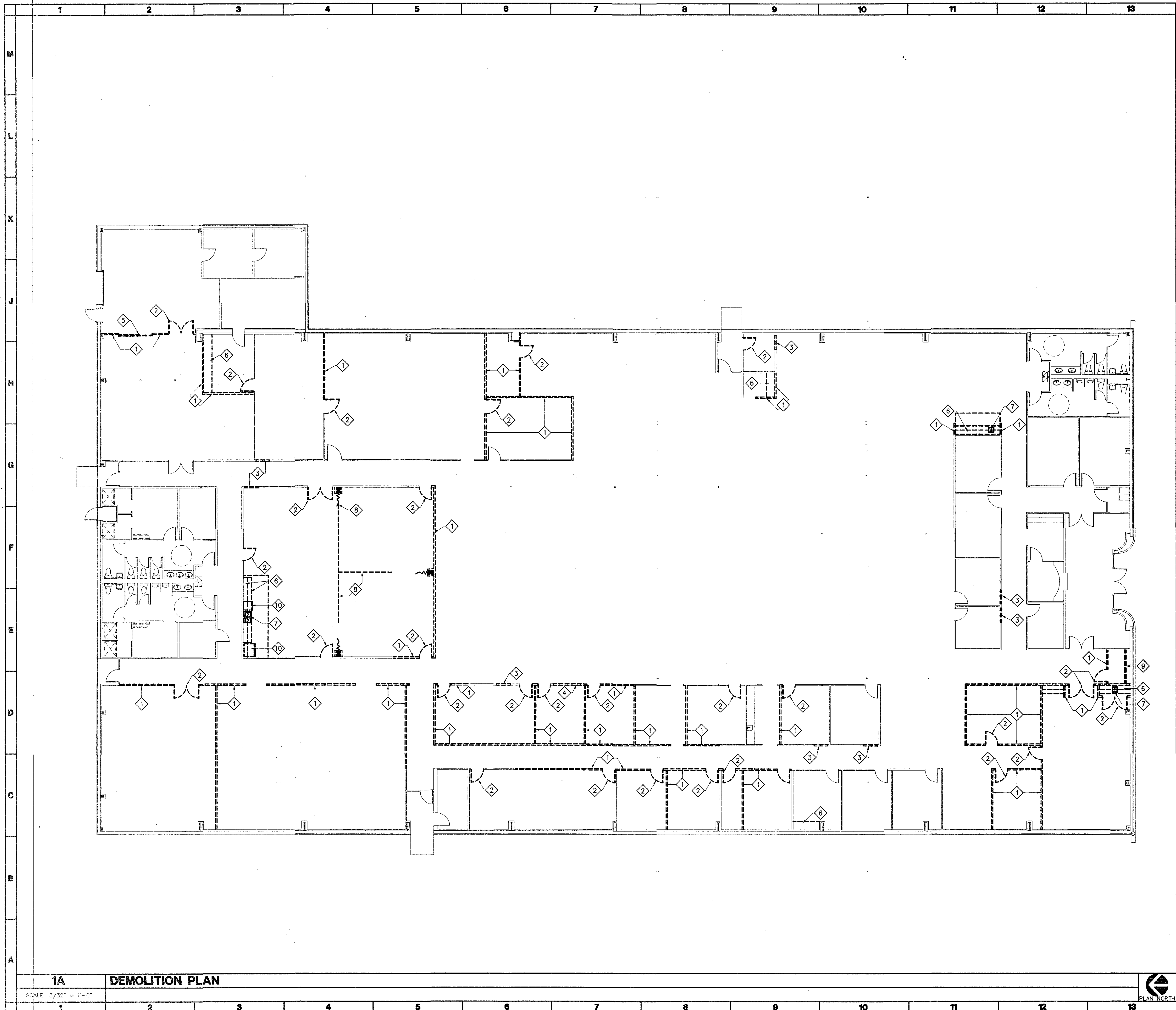
MECHANICAL

- M1.1 MECHANICAL PLAN
M2.1 SCHEDULES, LEGEND, AND NOTES
M3.1 DETAILS

ELECTRICAL

- DE1.1 LIGHTING DEMOLITION PLAN
DE1.2 POWER DEMOLITION PLAN
E1.1 LIGHTING PLAN
E1.2 POWER PLAN
E1.3 MECHANICAL EQUIPMENT CONNECTION & FIRE ALARM PLAN
E2.1 POWER RISER & PANEL SCHEDULE
E2.2 PANEL SCHEDULES
E2.3 FIRE ALARM RISER AND NOTES & LIGHTING CONTROL PANEL DIAGRAM
E2.4 FIXTURE SCHEDULE
E3.1 SYMBOL LEGEND, GENERAL NOTES, AND CODE SUMMARY

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GENERAL NOTES:

A. CONSTRUCTION NOT OTHERWISE INDICATED IS EXISTING CONSTRUCTION TO REMAIN.

B. REMOVE EXISTING FLOOR FINISH & BASE MATERIAL TO EXPOSE EXISTING CONCRETE SLAB; PATCH AND REPAIR EXISTING CONCRETE AS REQUIRED TO BE FLUSH, LEVEL, AND READY TO RECEIVE NEW FINISHES.

C. EXISTING TOILET ROOM PARTITIONS, CEILING, FINISHES, FIXTURES, & ACCESSORIES ARE TO REMAIN.

DEMOLITION NOTES:

1 REMOVE EXISTING INTERIOR PARTITION WALL; EXISTING STRUCTURAL COLUMNS TO REMAIN.

2 REMOVE EXISTING DOOR, FRAME, AND HARDWARE.

3 CUT NEW OPENING IN EXISTING INTERIOR WALL FOR NEW DOOR UNIT. COORDINATE WITH SHEET A1.2 AND DOOR SCHEDULE SHEET A0.1.

4 CUT NEW OPENING IN EXISTING INTERIOR WALL FOR NEW WINDOW UNIT. COORDINATE WITH SHEET A1.2 AND WINDOW SCHEDULE SHEET A0.1.

5 REMOVE EXISTING WINDOW UNIT.

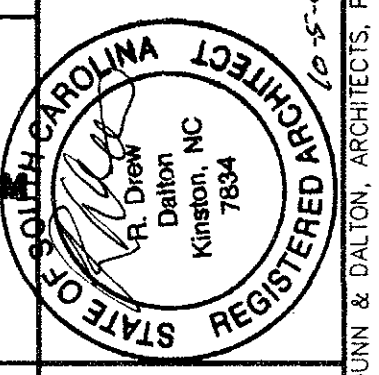
6 REMOVE EXISTING CASEWORK.

7 REMOVE EXISTING PLUMBING FIXTURES (SEE PLUMBING DRAWINGS).

8 REMOVE EXISTING FOLDING PARTITION.

9 REMOVE EXISTING CLOSET ROD AND SHELF.

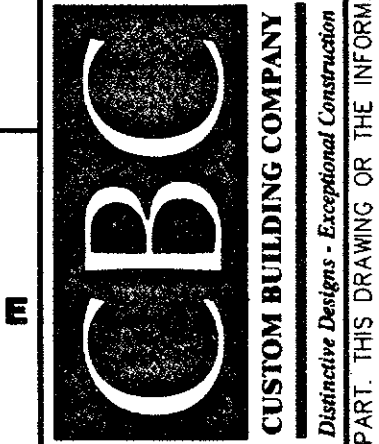
10 REMOVE EXISTING APPLIANCE.



MILLER MOTTE
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DUNN & DALTON
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Issue Date: 10/5/09
 Revisions:

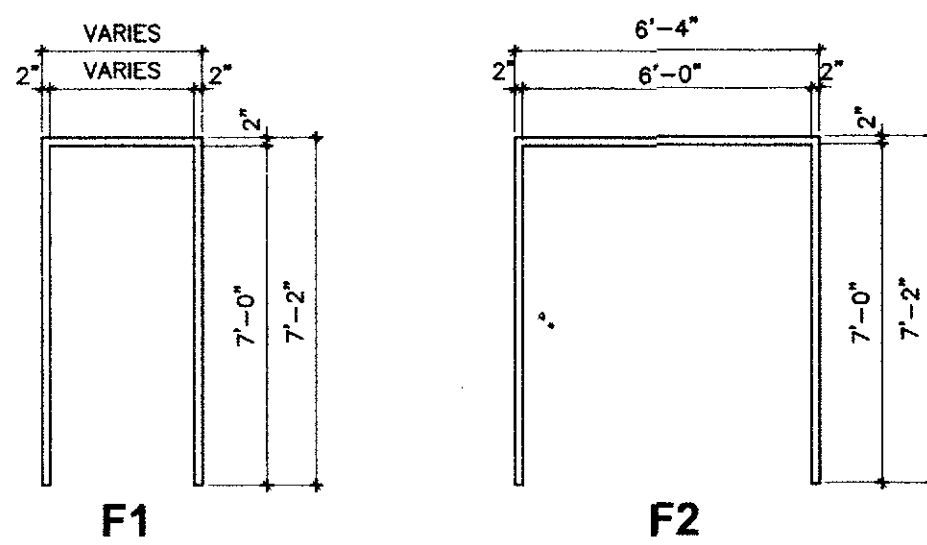
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DOOR HARDWARE SCHEDULE

SET #1: CLASSROOM/OFFICE		SET #2: INTERIOR PASSAGE	
QTY.	DESCRIPTION	QTY.	DESCRIPTION
1 1/2	PAIR BUTTS	1 1/2	PAIR BUTTS
1	OFFICE/ENTRY SET	1	ENTRY LOCK SET
1	CLOSER (WHERE NOTED)	1	KICKPLATE
1	DOOR STOP	1	CLOSER (WHERE NOTED)
		1	DOOR STOP
SET #3: INTERIOR SINGLE STOR. RM.		SET #4: INTERIOR TOILET RM. (PRIVACY)	
QTY.	DESCRIPTION	QTY.	DESCRIPTION
1 1/2	PAIR BUTTS	1 1/2	PAIR BUTTS
1	STORAGE LOCKSET	1	PRIVACY SET
1	CLOSER (WHERE NOTED)	1	DOOR STOP
1	DOOR STOP	1	CLOSER
SET #5: INTERIOR DOUBLE STOR. RM.		SET #6: INTERIOR DUTCH DOOR	
QTY.	DESCRIPTION	QTY.	DESCRIPTION
3	PAIR BUTTS	2	PAIR BUTTS
2	STORAGE LOCKSET	1	OFFICE/ENTRY SET
1	CLOSER (WHERE NOTED)	1	DOOR STOP
2	DOOR STOP	1	KICKPLATE (PUSH SIDE)

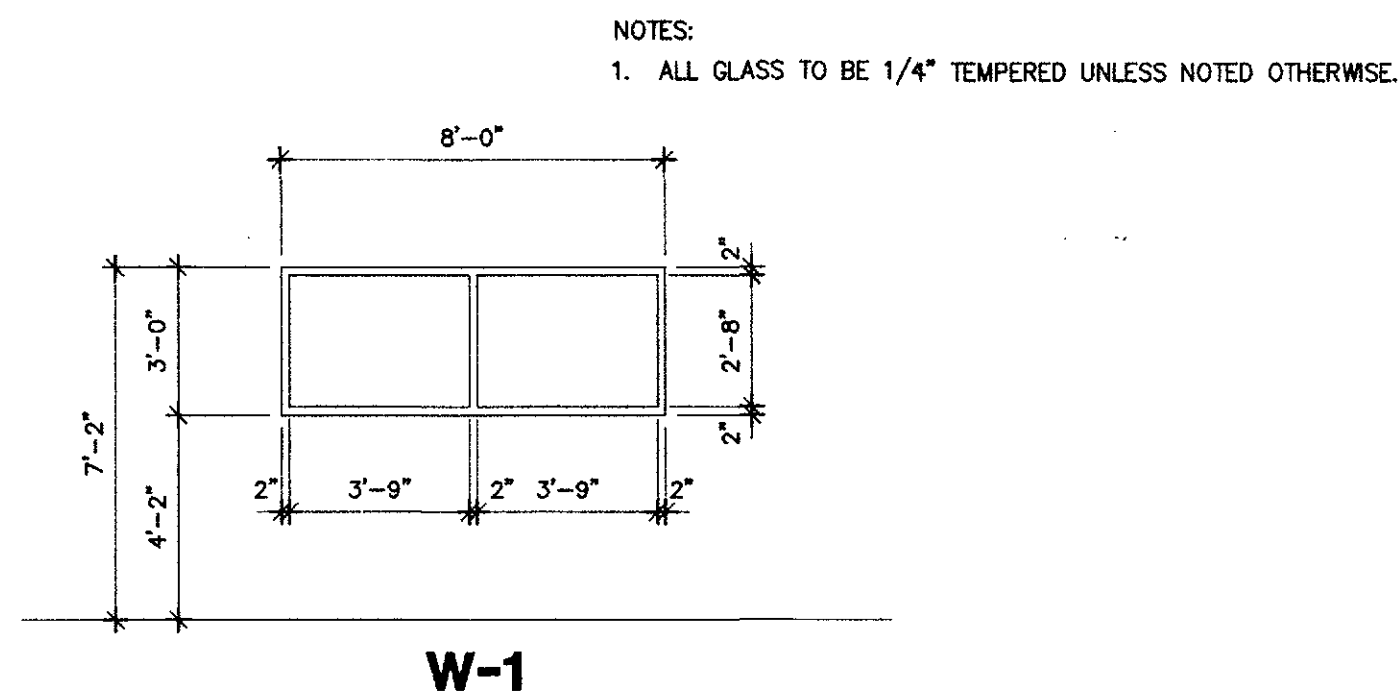
FRAME TYPES



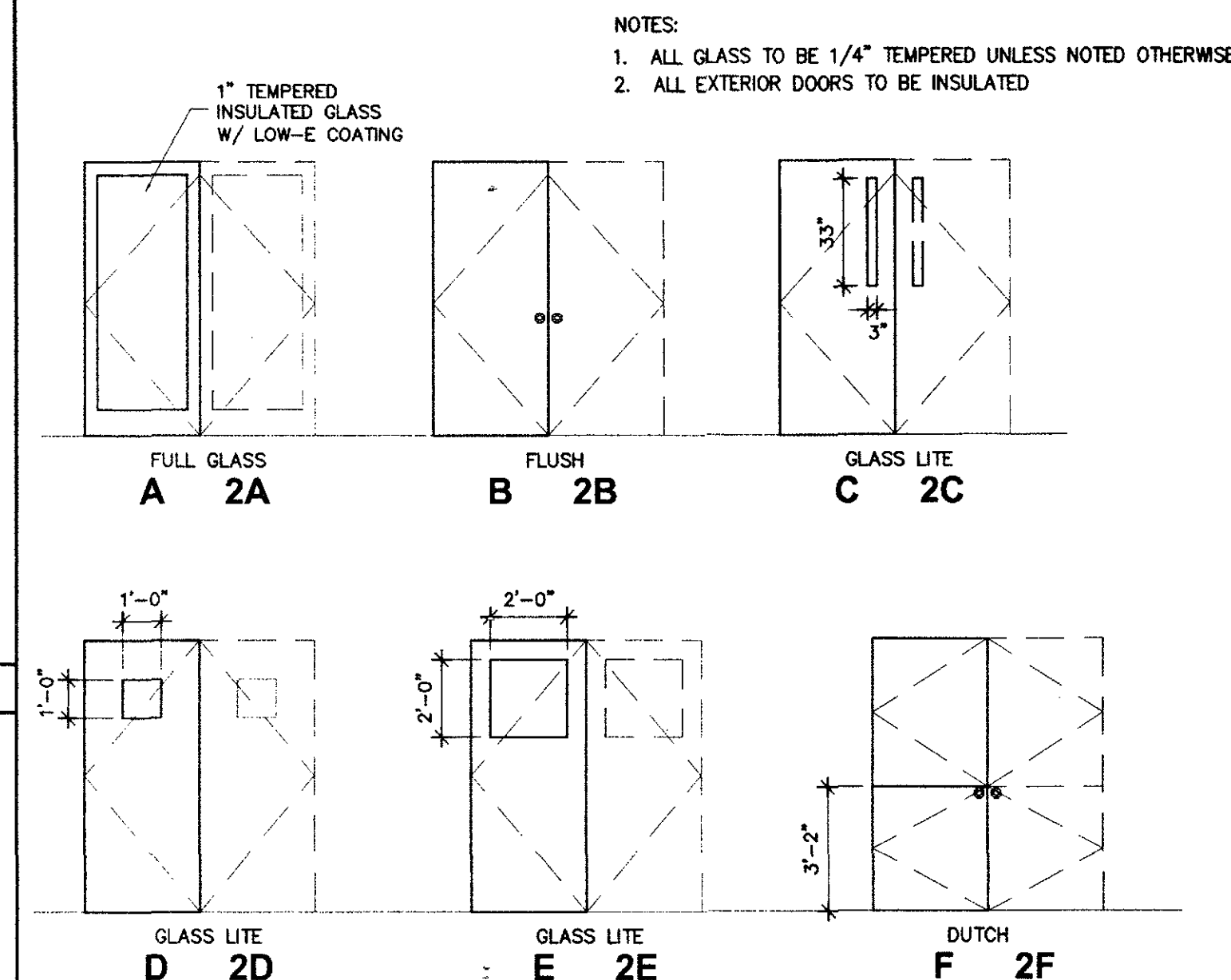
DOOR SCHEDULE

DOOR NO.	DOOR SIZE	DOOR DESCRIPTION	FRAME MATERIAL	FRAME NO.	DOOR TYPE	HARDWARE SET	REMARKS
100		EXISTING					
100A		EXISTING WITH NEW GLASS LITE				2E	
100B		EXISTING WITH NEW GLASS LITE				2E	
101		EXISTING					
102		EXISTING					
105		EXISTING WITH NEW GLASS LITE				C	
106		EXISTING WITH NEW GLASS LITE				C	
107		EXISTING WITH NEW GLASS LITE				C	
108		EXISTING WITH NEW GLASS LITE				C	
109	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	C	1	
109A		EXISTING WITH NEW GLASS LITE				C	
110	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	C	1	
110A		EXISTING WITH NEW GLASS LITE				C	
111	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	C	1	
112	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	C	1	
113	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	C	1	
114	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	C	1	
116		EXISTING WITH NEW GLASS LITE				C	
117		EXISTING WITH NEW GLASS LITE				C	
118		EXISTING WITH NEW GLASS LITE				C	
119	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	C	1	
120	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	C	2	
121	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	C	1	
121A		EXISTING					
123	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	E	1	
124	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	E	1	
125	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	E	1	
126	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	E	1	
127	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	E	1	
128	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	B	2	
129	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	D	1	
130		EXISTING					
131	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	D	1	
132	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	D	1	
133	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	D	1	
134	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	D	1	
135	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	B	3	
136	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	D	1	
137	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	D	1	
138	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	D	1	
139	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	D	1	
141	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	B	4	
142	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	B	4	
143	4'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	C	1	
144	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	F	6	
148		EXISTING					
149		EXISTING					
150		EXISTING					
151		EXISTING					
151A		EXISTING					
152		EXISTING					
154	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	E	1	
155		EXISTING					
155A		EXISTING					
156		EXISTING WITH NEW GLASS LITE				2E	
156A		EXISTING					
157		EXISTING					
158	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	A	2	
160		EXISTING					
161	6'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F2	2B	5	
162	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	E	2	
163		EXISTING WITH NEW GLASS LITE				C	
164	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	E	1	
165		EXISTING WITH NEW GLASS LITE				E	
166	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	E	1	
167	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	E	1	
168	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	E	1	
169	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	E	1	
170	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	E	1	
171	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	E	1	
171A	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	B	3	
172	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	B	1	
173	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	E	1	
174	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	E	1	
175		EXISTING					
176		EXISTING					
177	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HOLLOW METAL	F1	B	2	
179		EXISTING					

WINDOW TYPES



DOOR TYPES

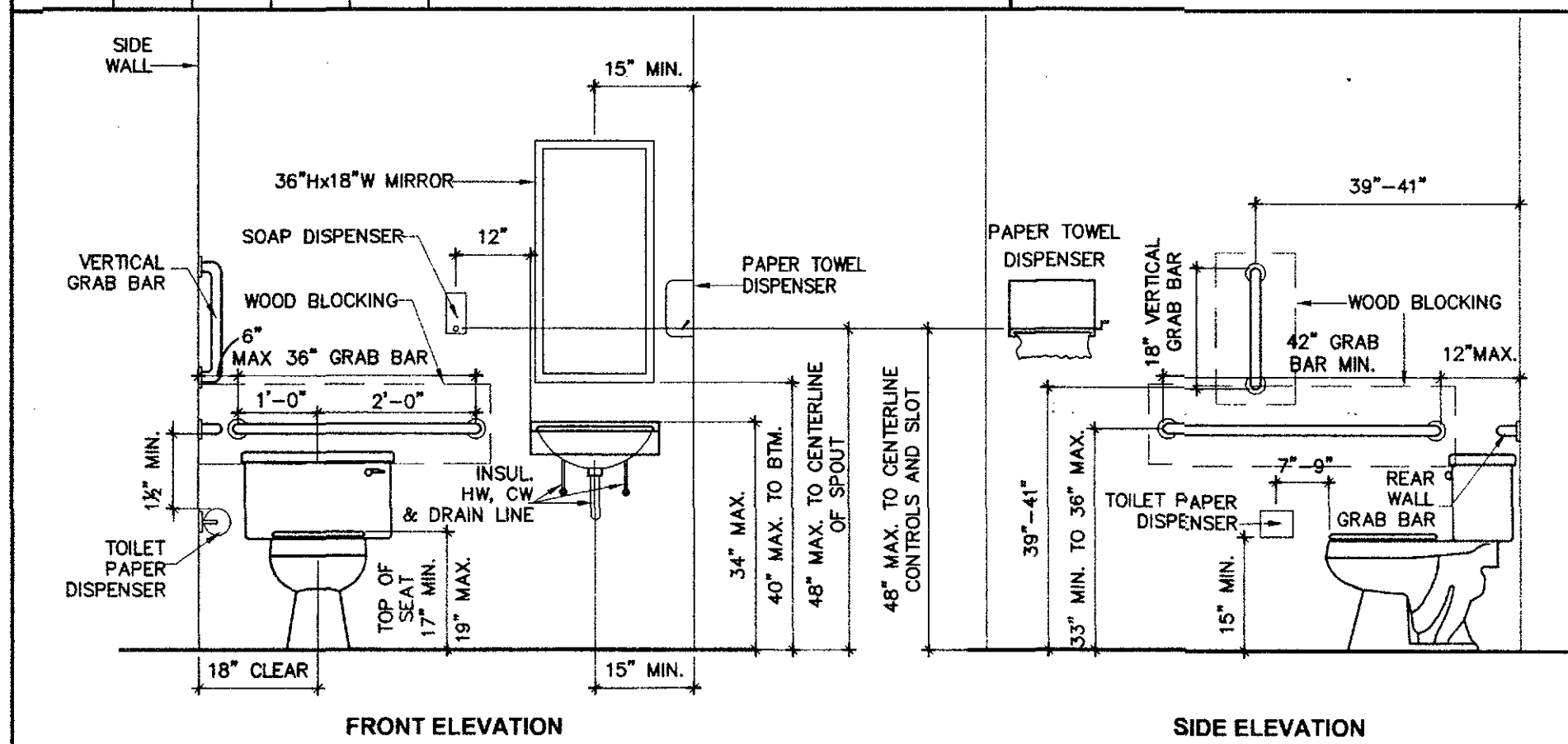


TOILET ACCESSORIES SCHEDULE

ITEM	QUANTITY
RM # 141	142
PT	-
PT/W	1
TP	1
ND	1
SP	1
GB	1 SET
M1	-
M2	1

LEGEND

- PT * PAPER TOWEL DISPENSER
- PT/W * PAPER TOWEL DISPENSER/WASTE
- TP * TOILET TISSUE DISPENSER
- ND * SANITARY NAPKIN DISPOSAL UNIT
- SP * SOAP DISPENSER
- GB * GRAB BARS
- M1 = MIRROR: 36" H x VANITY LENGTH FRAMELESS
- M2 = MIRROR: 18" W x 36" H W/ FRAME
- SHOWER=ADA GRAB BARS AND FOLD DOWN SEAT
- * ITEM BY OTHERS



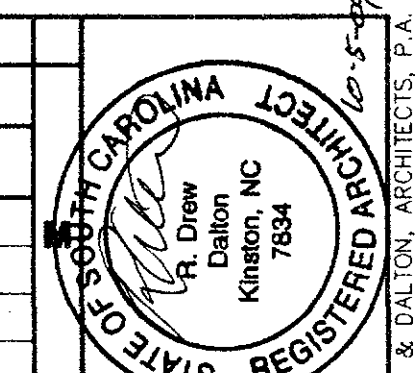
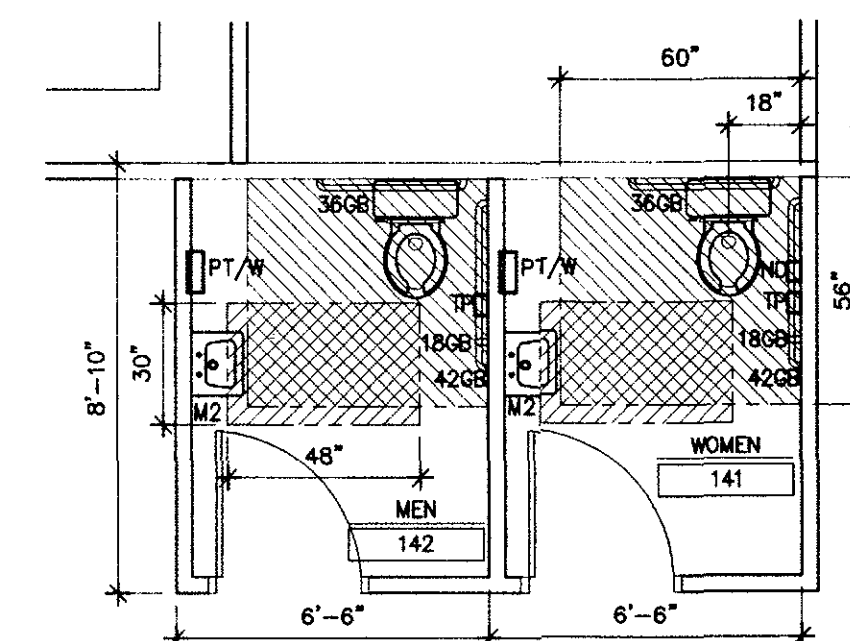
4A ADA TOILET REQUIREMENTS

SCALE: 1/2" = 1'-0"

9A ENLARGED TOILET PLAN

WOMEN'S #141 AND MEN'S #142

SCALE: 1/4" = 1'-0"

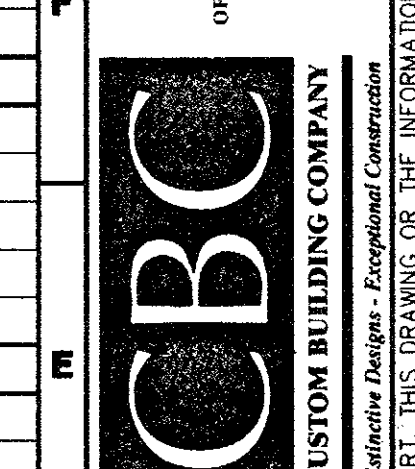


MILLER MOTTE Conway, South Carolina

Project Number: CBC-09045

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DUNN & DALTON ARCHITECTS

Issue Date: 10/5/09
Revisions:

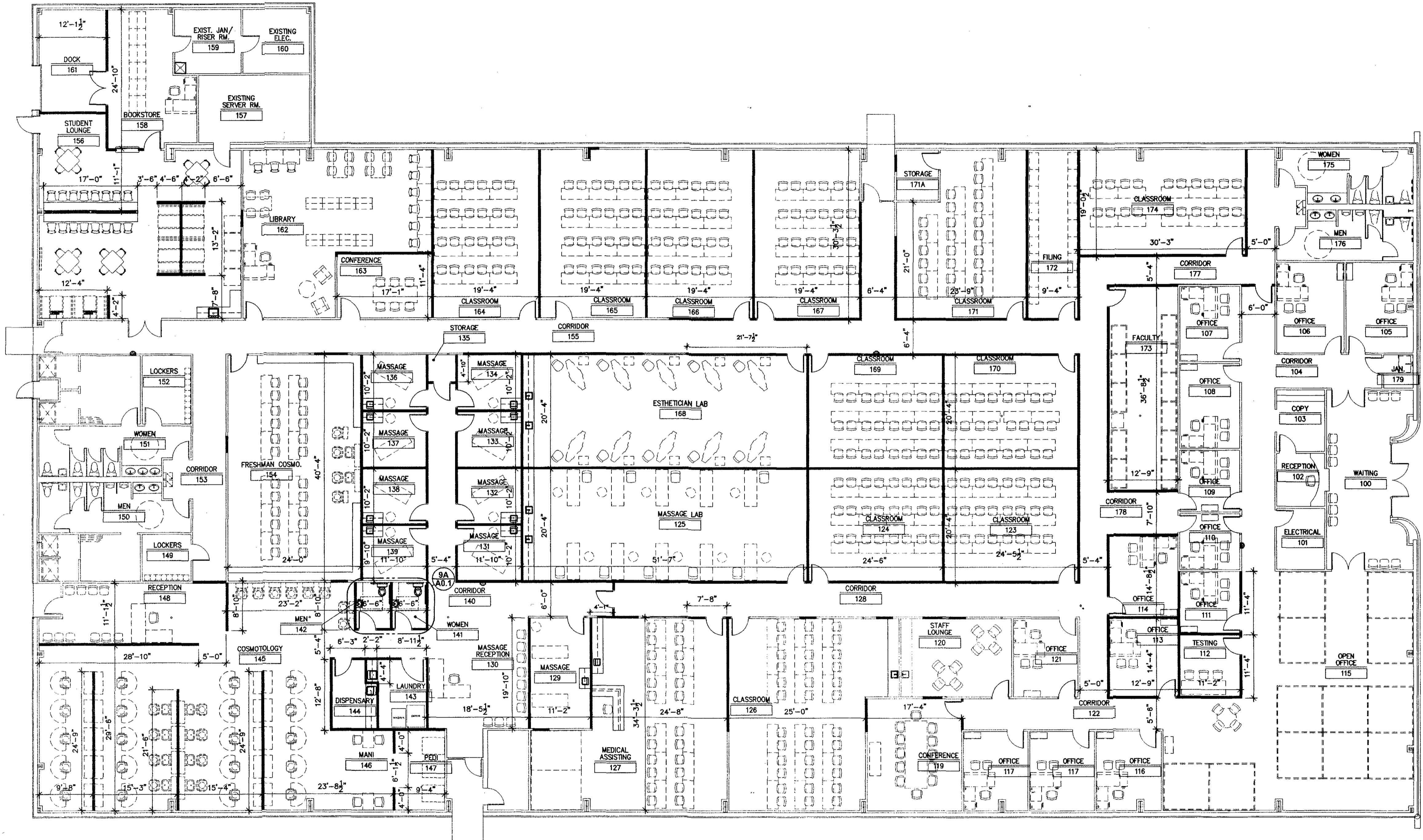
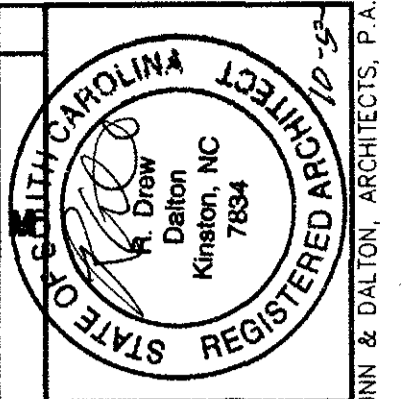
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GENERAL NOTES

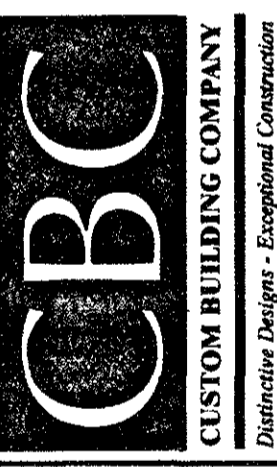
A. ALL DIMENSIONS ARE TO FACE OF EXISTING WALLS OR STUD WALLS.

B. VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH ANY WORK.



MILLER MOTTE
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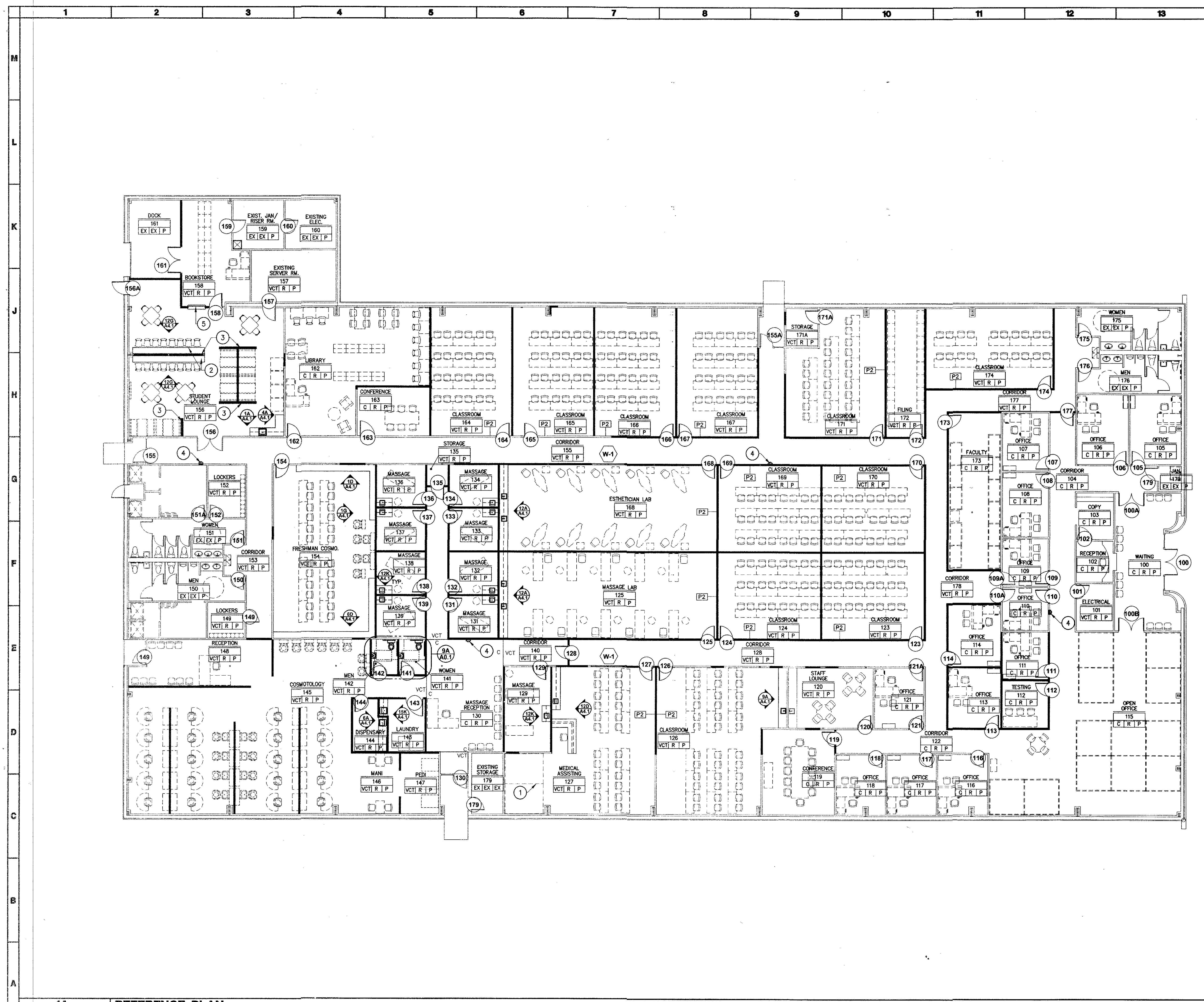
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1A DIMENSION PLAN

SCALE: 3/32" = 1'-0"



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GENERAL NOTES

A. INTERIOR WALLS TO BE 3 5/8" METAL STUDS @ 16" O.C. WITH 5/8" GYPSUM BOARD EACH SIDE; EXTEND 6" BEYOND NEW CEILINGS.

B. ALL FURNISHINGS AND EQUIPMENT BY OTHERS UNLESS NOTED OTHERWISE.

C. ALL WET LOCATIONS TO HAVE 5/8" MOISTURE RESISTANT GYPSUM BOARD.

D. ALL NEW WALLS TO HAVE SOUND ATTENUATION BLANKETS.

E. PATCH AND REPAIR DRYWALL WAS REQUIRED FROM REMOVAL OF EXISTING WALLS.

CONSTRUCTION NOTES

① CURTAINS AT HEALTHCARE LAB TO BE MANUFACTURED BY GENERAL CUBICAL CO. OR EQUAL WITH STANDARD 21" MESH TOP

② 18" DEEP COUNTERTOP @ 42" A.F.F. WITH BLOCKING IN WALLS AS REQUIRED.

③ 42" HIGH KNEE WALL W/ LAMINATE CAP. 1/2" OVERHANG ON 3 SIDES.

④ SEMI-RECESSED FIRE EXTINGUISHER CABINET AND EXTINGUISHER.

⑤ 4'X4' COUNTER SHUTTER WITH ANODIZED ALUMINUM FINISH; MANUAL OPERATION WITH LOCKING CAPABILITY @ 34" A.F.F.

WALL LEGEND

— EXISTING WALL TO REMAIN.

— 3 5/8" METAL STUDS @ 16" O.C. WITH 5/8" GYP. BOARD BOTH SIDES TO EXTEND 6" ABOVE CEILING.

ROOM FINISHES LEGEND

C	CARPET
VCT	VINYL COMPOSITE TILE
EX	EXISTING TO REMAIN
R	RUBBER BASE-4" WITH COVE
P	PAINT
P2	ACCENT PAINT

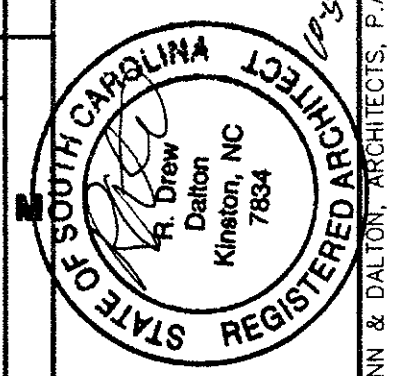
CLASSROOM 105

WALL FINISH

BASE MATERIAL

FLOOR FINISH

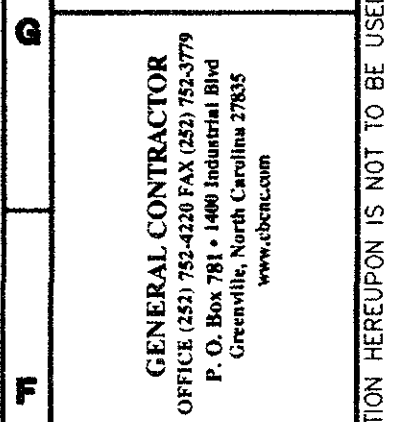
THE ABOVE SYMBOL INDICATES THE GENERAL SURFACE FINISHES FOR EACH ROOM.



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Conway, South Carolina**

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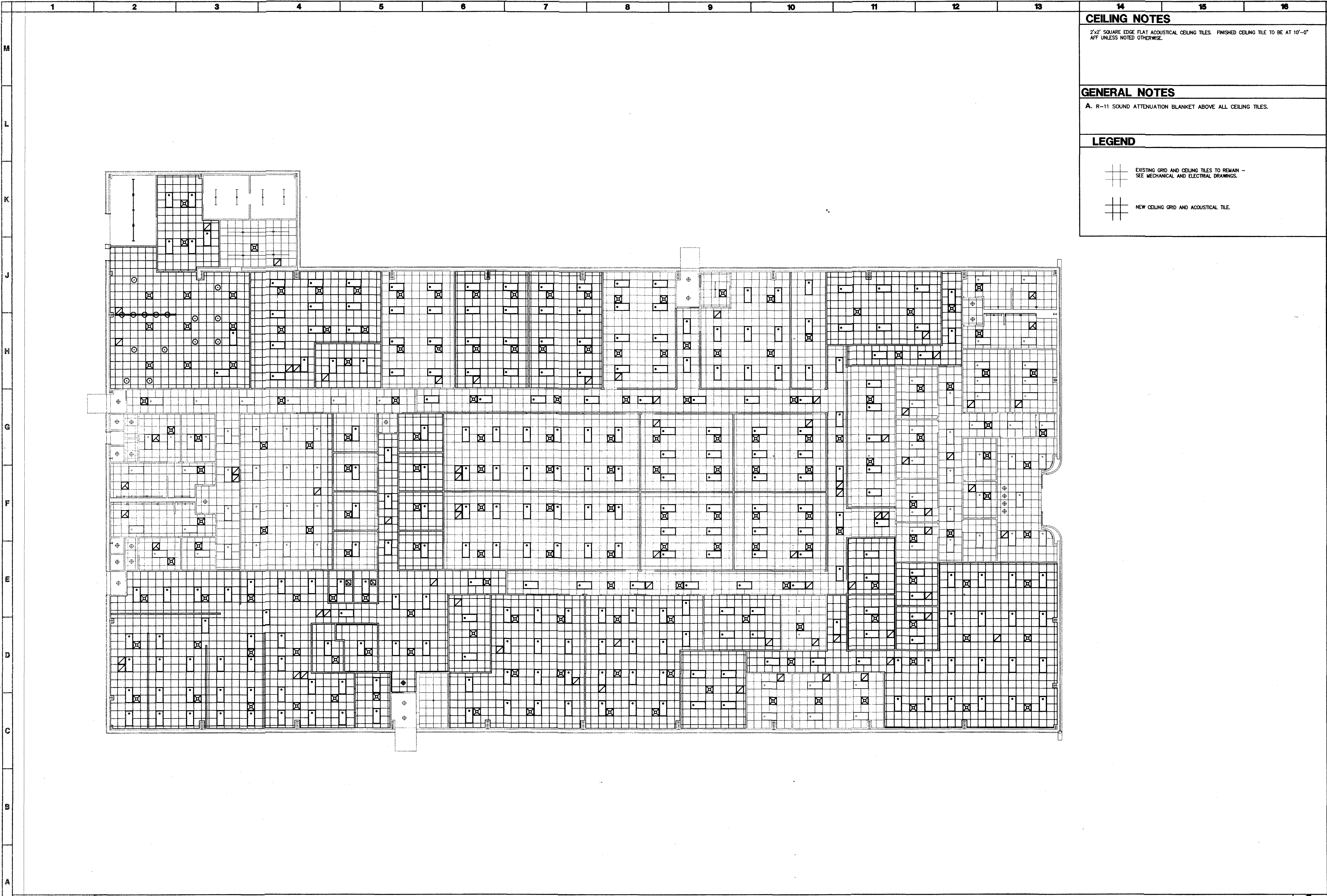
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A1.2



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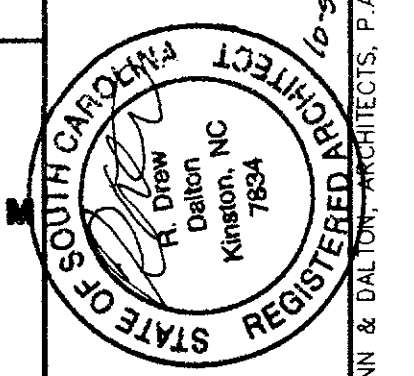


CEILING NOTES
 2'x2' SQUARE EDGE FLAT ACOUSTICAL CEILING TILES. FINISHED CEILING TILE TO BE AT 10'-0" AFF UNLESS NOTED OTHERWISE.

GENERAL NOTES
 A. R-11 SOUND ATTENUATION BLANKET ABOVE ALL CEILING TILES.

LEGEND

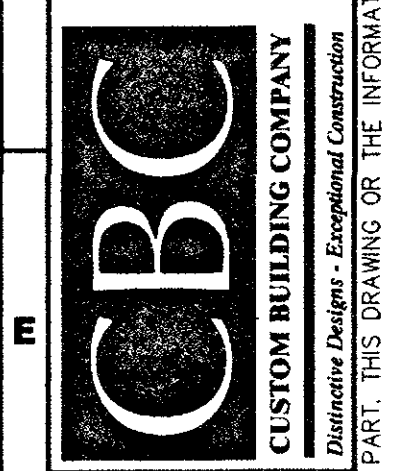
 EXISTING GRID AND CEILING TILES TO REMAIN - SEE MECHANICAL AND ELECTRICAL DRAWINGS.
 NEW CEILING GRID AND ACOUSTICAL TILE.



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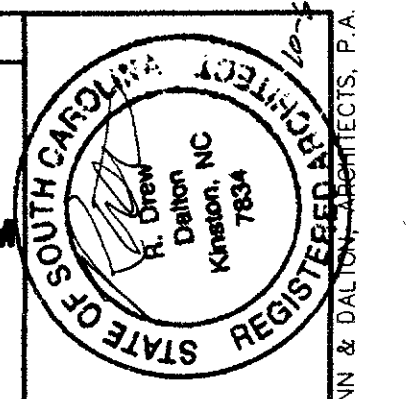
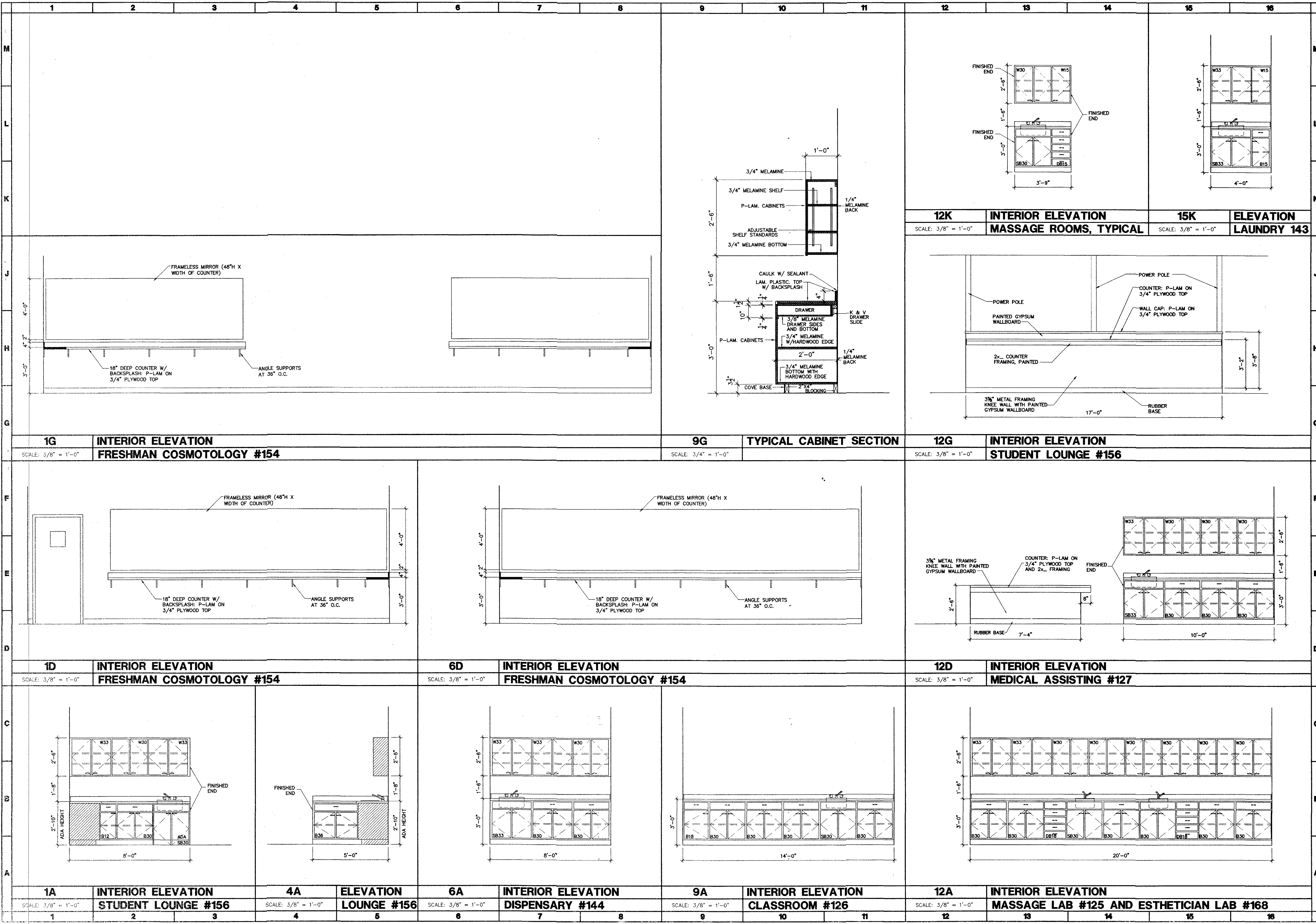
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1A REFLECTED CEILING PLAN

SCALE: 3/32" = 1'-0"

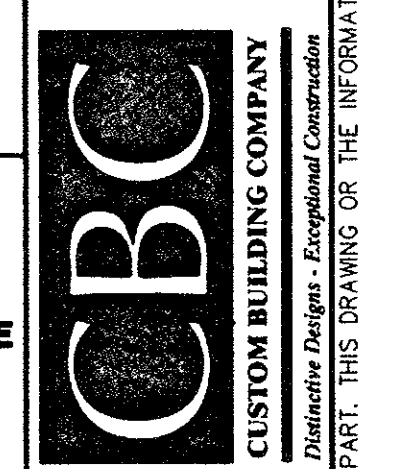




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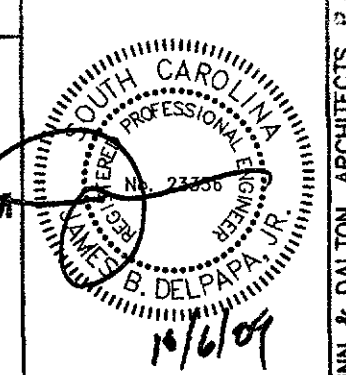
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PLUMBING KEY NOTES

- ① CONNECT TO EXISTING COLD WATER PIPE LOCATED ABOVE FINISHED CEILING. FIELD VERIFY LOCATION.
- ② CONNECT TO EXISTING COLD AND HOT WATER PIPING.
- ③ EXISTING PLUMBING FIXTURES AND PIPING. NO WORK IN THIS AREA.
- ④ ELECTRICAL EQUIPMENT BY ELECTRICAL CONTRACTOR.



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680 SHILOH ROAD, SUITE 100
RANDOLPH, NC 28133
PROJECT NO. 0901

MILLER MOTTE
Conway, South Carolina

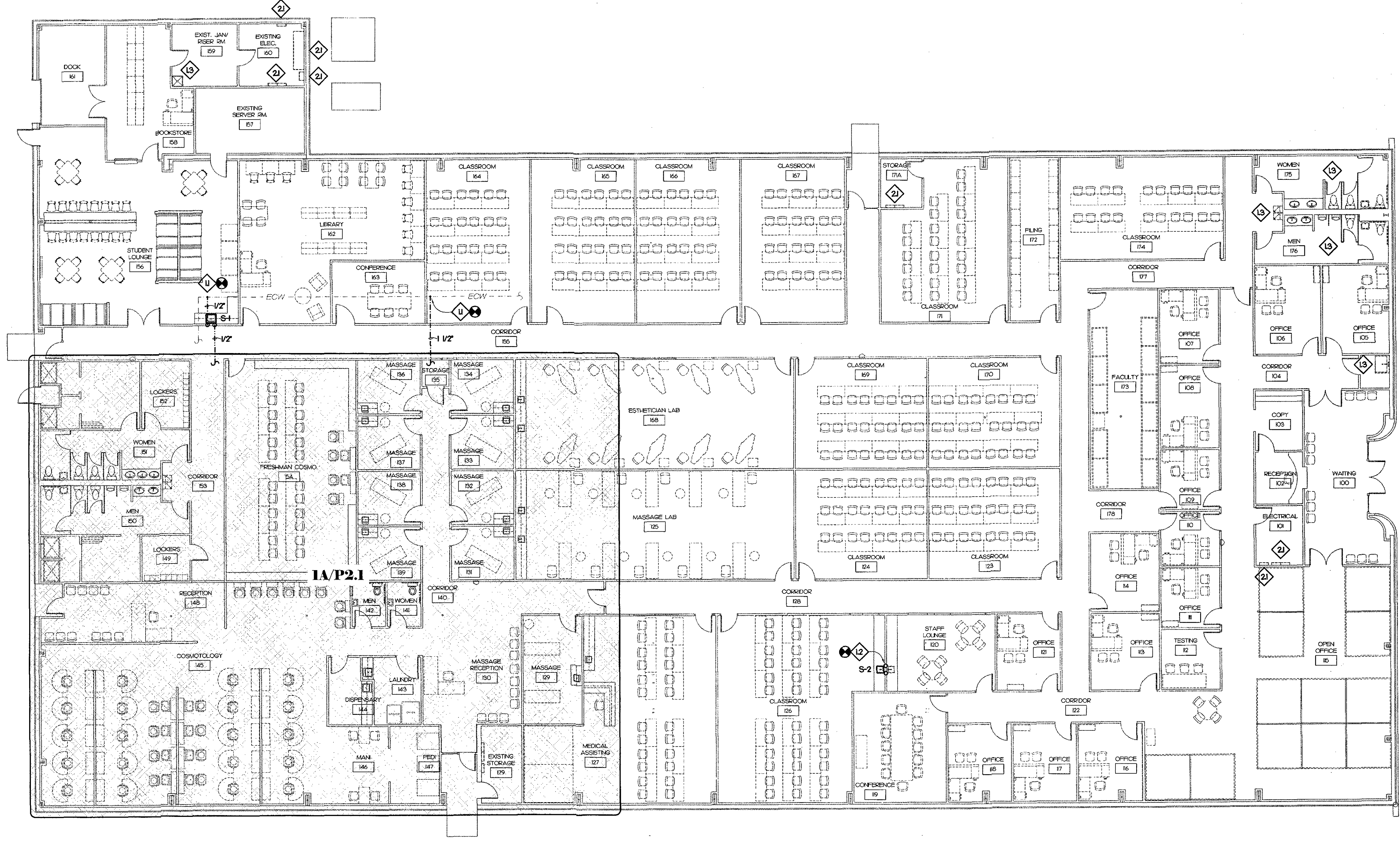
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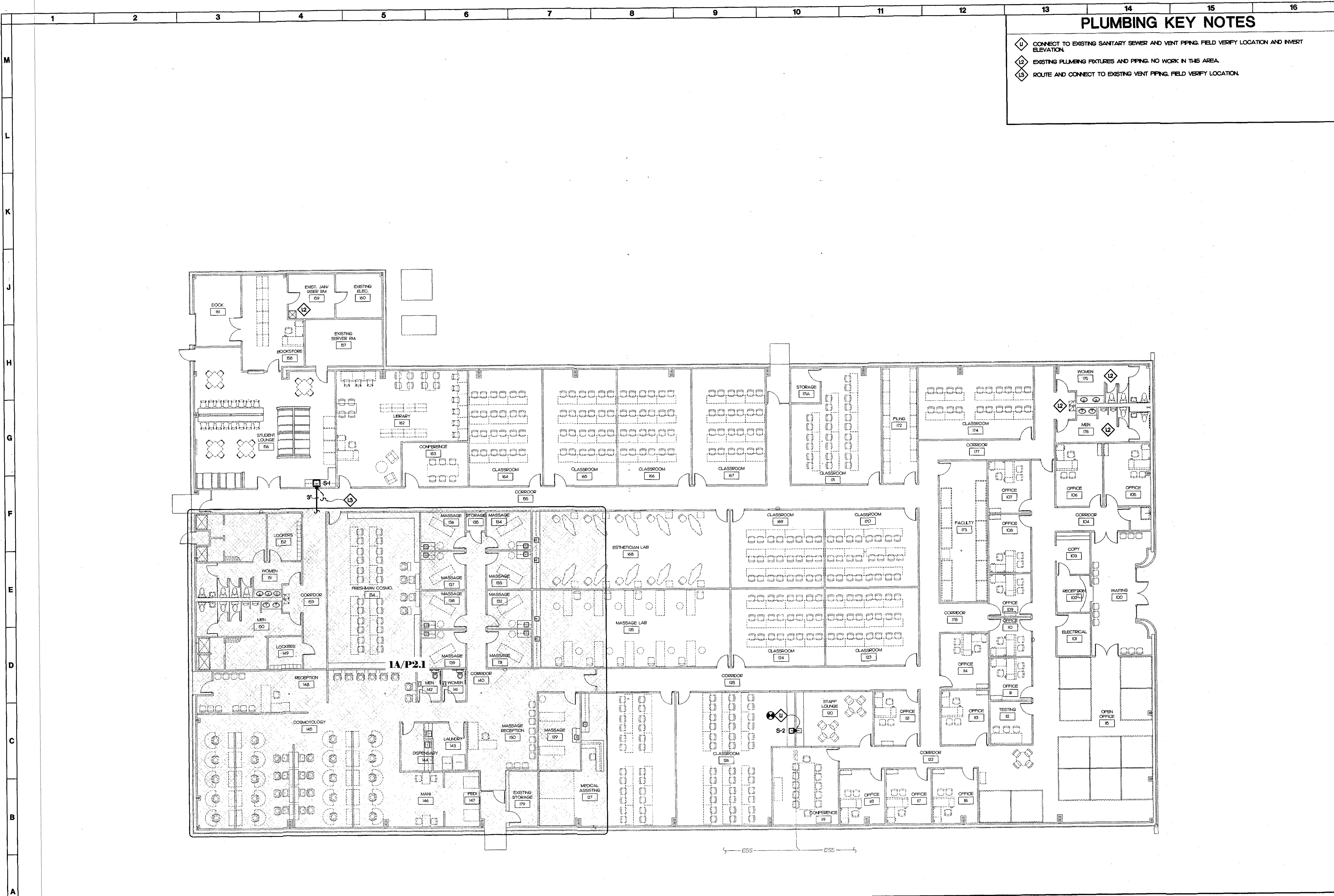
P1.1



1A WATER PIPING PLAN

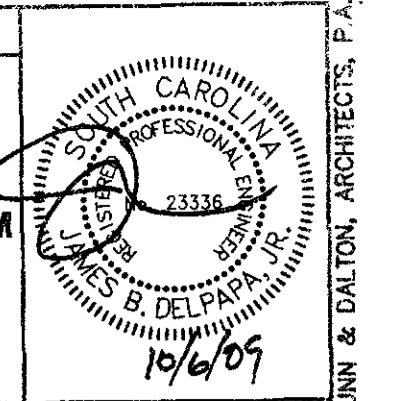
SCALE: 3/32" = 1'-0"

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PLUMBING KEY NOTES

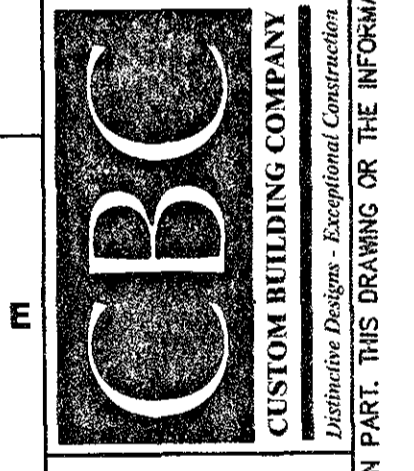
- ① CONNECT TO EXISTING SANITARY SEWER AND VENT PIPING. FIELD VERIFY LOCATION AND INVERT ELEVATION.
- ② EXISTING PLUMBING FIXTURES AND PIPING. NO WORK IN THIS AREA.
- ③ ROUTE AND CONNECT TO EXISTING VENT PIPING. FIELD VERIFY LOCATION.



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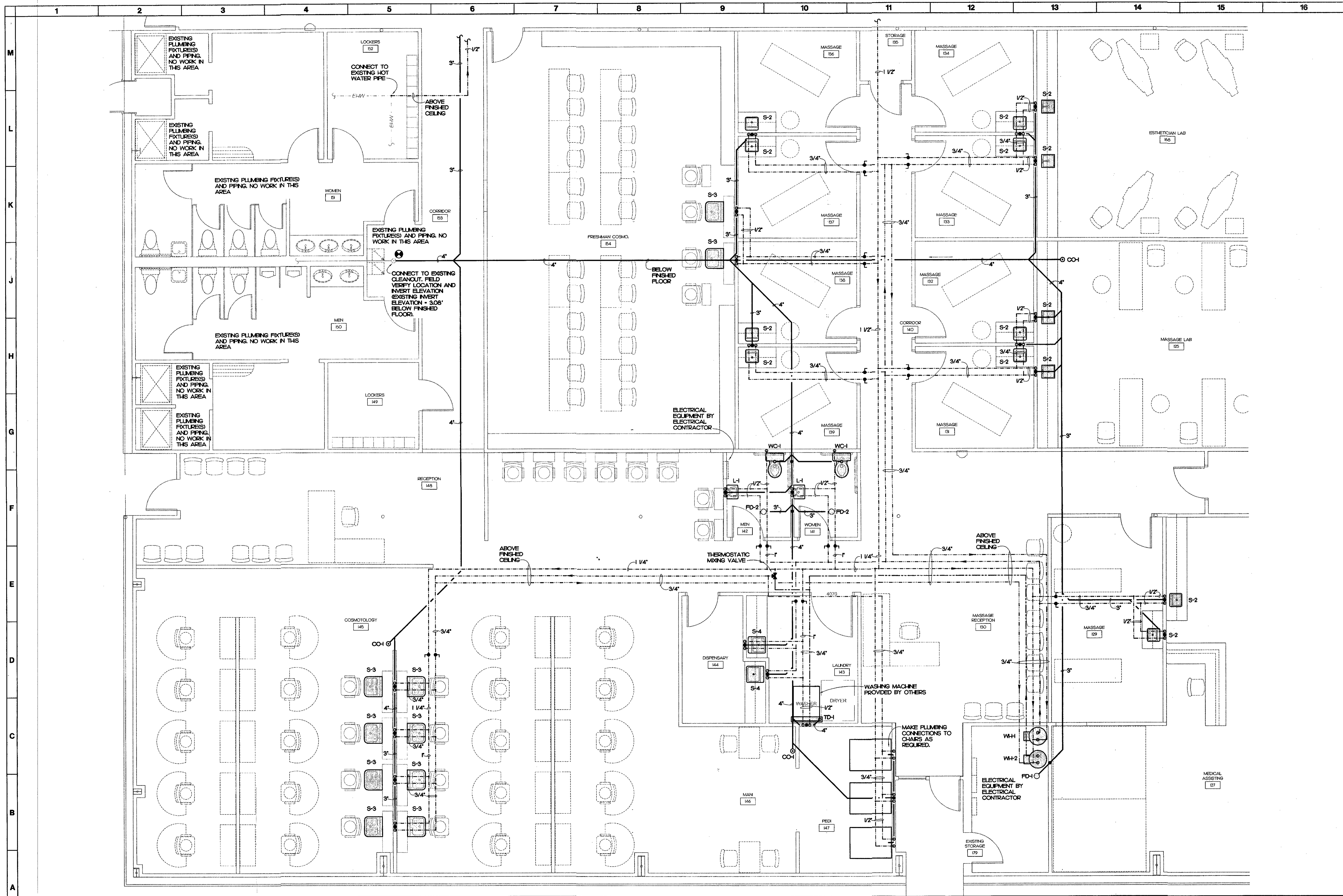
1A

P1.2

1A WASTE PIPING PLAN

SCALE: 3/32" = 1'-0"

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1A ENLARGED PLUMBING PLAN

SCALE: 1/4" = 1'-0"

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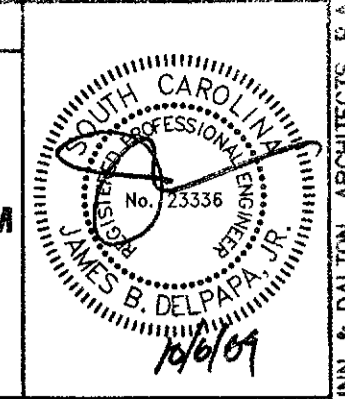
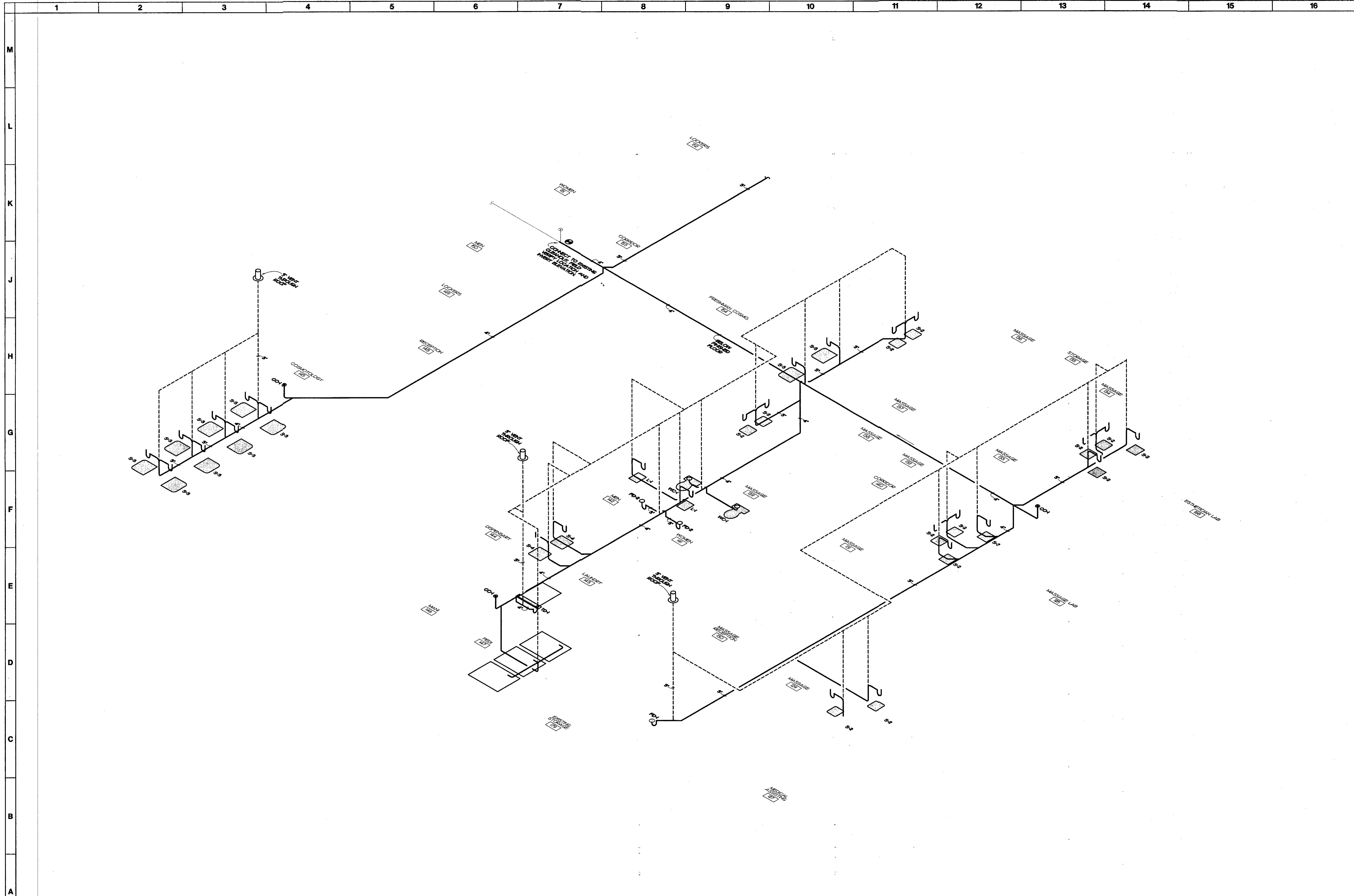
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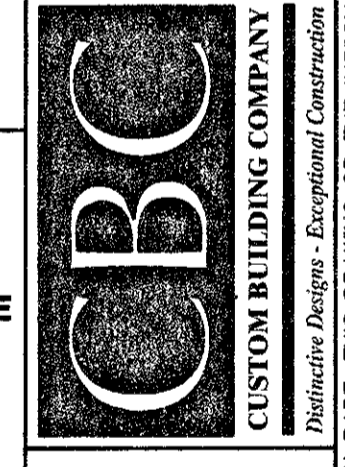
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MILLER MOTTE
Conway, South Carolina
 Project Number: CBC-091045

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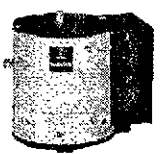
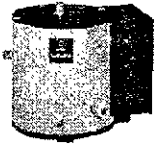
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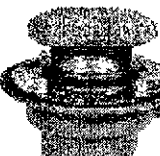


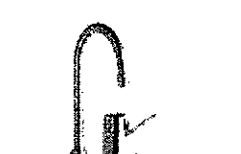
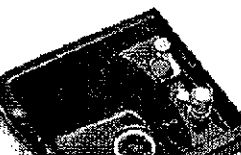

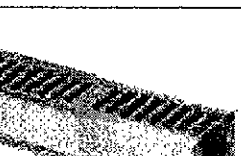
PLUMBING FIXTURE SCHEDULE

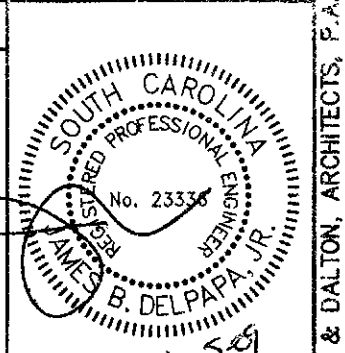
SYMBOL / IMAGE	DESCRIPTION	3 - EQUALS						PPING CONNECTIONS		
		MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITARY SEWER
WH	WATER HEATER	STATE INDUSTRIES	SSE 40	A.O. SMITH		LOCHINVAR		3/4"	3/4"	
	ELECTRIC WATER HEATER SHALL HAVE A 40 GALLON STORAGE CAPACITY, AN ELECTRIC INPUT OF 9 KW AT 208 VOLT, THREE PHASE AND A RECOVERY OF 37 GPH AT A 100' RISE. PROVIDE WITH EXPANSION TANK. WIRING BY LICENSED ELECTRICAL CONTRACTOR.									
WH-2	WATER HEATER	STATE INDUSTRIES	SSE 40	A.O. SMITH		LOCHINVAR		3/4"	3/4"	
	ELECTRIC WATER HEATER SHALL HAVE A 40 GALLON STORAGE CAPACITY, AN ELECTRIC INPUT OF 18 KW AT 208 VOLT, THREE PHASE AND A RECOVERY OF 74 GPH AT A 100' RISE. PROVIDE WITH EXPANSION TANK. WIRING BY LICENSED ELECTRICAL CONTRACTOR.									

PLUMBING SCHEDULE NOTES AND LEGEND:

1. THE PLUMBING CONTRACTOR MAY SUBSTITUTE FIXTURES WITH OWNERS' APPROVAL.
 2. SUBMIT CUT SHEETS FOR ALL PROPOSED FIXTURES TO ARCHITECT PRIOR TO BIDDING.
 3. PROVIDE VACUUM BREAKER ON ALL EQUIPMENT REQUIRING PLUMBING.
 4. REFER TO MANUFACTURERS WEB SITE FOR CUT SHEETS AND DATA ON THE FIXTURES AND APPURTENANCES USED IN THIS SCHEDULE.
-  ADA COMPLIANT
 ELECTRICAL POWER

PLUMBING FIXTURE SCHEDULE

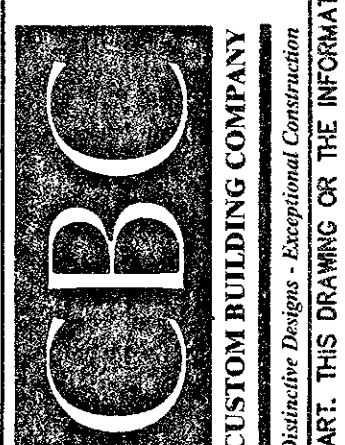
SYMBOL / IMAGE	DESCRIPTION	3 - EQUALS						PPING CONNECTIONS		
		MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITARY SEWER
CO-1	FLOOR CLEANOUT	ZURN	CO2449	MIFAB		JR SMITH				SEE PLUMBING DRAWINGS
	PVC CLEANOUT WITH AN ADJUSTABLE PVC RISER, NICKEL BRONZE FRAME AND COVER, AND AN ABS TAPER THREADED PLUG. CLEANOUT TO BE GAS AND WATERTIGHT.									
FD-1	FLOOR DRAIN	ZURN	ZN-45-1	WADE	W-100-ER7-H-6	MIFAB	100C-ER7-H	1/2"		3"
	FLOOR DRAIN TO HAVE A CAST IRON BODY WITH 3" BOTTOM OUTLET, ADJUSTABLE COLLAR, POLISHED 7" DIAMETER NICKEL BRONZE STRAINER, AND 1/2" TRAP PRIMER CONNECTION.									
FD-2	FLOOR DRAIN	ZURN	ZN-45-H	WADE		MIFAB		1/2"		3"
	FLOOR DRAIN TO HAVE A 3" WASTE BOTTOM OUTLET, CAST IRON BODY WITH ADJUSTABLE COLLAR, POLISHED NICKEL BRONZE ROUND HEEPROOF STRAINER, AND 1/2" TRAP PRIMER CONNECTION.									
L-1	LAVATORY	KOHLER	K-2849-4	ELJER	052-074	AMERICAN STANDARD	4869-020			
	FAUCET	DELTA	523-HDF-4GM	CHICAGO FAUCETS	2200-4	MOEN	8470			
	TRAP	McGUIRE	8902	ELJER	804-185	KOHLER	K-8999			2"
	SUPPLY	McGUIRE	85LK	ELJER	802-035	KOHLER	K-760-P	1/2"	1/2"	
	WALL HUNG LAVATORY SHALL BE MADE OF CAST IRON WITH A WHITE FINISH, HAVE 4" CENTERS, AN OVERFLOW, SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT, DECK MOUNTED FAUCET SHALL BE CHROME FINISH, SINGLE LEVER, 4" CENTERS, WITH 3/8" COPPER SUPPLY TUBE INLETS, AND PROVIDED WITH AN AERATOR. RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS, FULL TURN BRASS STEM, REDUCER, AND FLANGE. INLET SHALL BE 3/8" IPS. OUTLET SHALL BE 3/8" IPS. P-TRAP SHALL BE CHROME PLATED CAST BRASS BODY WITH CLEANOUT, CAST BRASS ELBOW AND CAST BRASS SLP NUT, AND FLANGE. PROVIDE WITH OFFSET DRAIN AND TRUEBRO LAY SHEILD.									
PH	RECIRCULATING PUMP	B E G	100							
	RECIRCULATING PUMP SHALL BE 1/2 HORSEPOWER, 120 VOLT, SINGLE PHASE. PROVIDE PUMP WITH MOUNTING BRACKET, TIMER, AQUASTAT AND DISCONNECT, DISCONNECT WIRING BY LICENSED ELECTRICAL CONTRACTOR.									
S-1	KITCHEN SINK	ELKAY	LRAD2522							
	FAUCET	SYMONS	S23-PS					1/2"	1/2"	
	TRAP	DEARBORN	50							2"
	SUPPLY	BRASS CRAFT	RN2AC							
	STRAINER	DEARBORN	760W							
	SINK IS TO BE 18 GA. STAINLESS STEEL, SELF-RIMMING. FAUCET SHALL BE CHROME FINISHED, WITH 1/2" INLET AND PROVIDED WITH AN AERATOR. RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS AND FLANGE. INLET AND OUTLET SHALL BE 3/8" IPS. PROVIDE WITH BRASS CRAFT NO. CS40BC COVER TUBE STOP AND CONNECTION FOR ICE MAKER. PROVIDE WITH McGUIRE PROWRAP INSULATOR.									
S-2	SINK	JUST	SL-ADA-55-A-GR	ELKAY						
	FAUCET	DELTA	76-WF-DF	CHICAGO FAUCETS	2302-CP	T65 BRASS	B-2741	1/2"	1/2"	
	TRAP	McGUIRE	8902	KOHLER	K-8999	ELJER	804-185			2"
	SUPPLY	McGUIRE	170	KOHLER	K-76-6-P	BRASSCRAFT	CS400AC			
	STRAINER	JUST	JB-99	ELKAY	LK-99					
	SINK IS TO BE 18 GAUGE STAINLESS STEEL, SELF-RIMMING, DECK MOUNTED GOOSENECK FAUCET SHALL BE CHROME FINISHED, WITH 1/2" INLET AND PROVIDED WITH AN AERATOR. RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS AND FLANGE. INLET AND OUTLET SHALL BE 3/8" IPS. PROVIDE WITH McGUIRE PROWRAP INSULATOR.									
S-3	SHAMPOO SINK	PROVIDED BY OTHERS								
	FAUCET	PROVIDED BY OTHERS								
	HAIRTRAP	ZURN	Z-475							2"
	SUPPLIES	McGUIRE	170	KOHLER	K-76-6-P	BRASSCRAFT	CS400AC	1/2"	1/2"	
	STRAINER	JUST	JB-99	ELKAY	LK-99	DEARBORN	CS400AC			
	SINK AND FAUCET ARE TO BE PROVIDED BY OTHERS. PROVIDE WITH AN AERATOR. RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS AND FLANGE. INLET AND OUTLET SHALL BE 3/8" IPS. PROVIDE WITH VACUUM BREAKER.									
S-4	SINK	JUST	SL-192-A-GR	ELKAY	LR-229					
	FAUCET	DELTA	400	KOHLER	K-8572	MOEN	7437	1/2"	1/2"	
	TRAP	McGUIRE	8902	KOHLER	K8999	ELJER	804-185			2"
	SUPPLY	McGUIRE	170	KOHLER	K-76-6-P	BRASSCRAFT	CS400AC			
	STRAINER	JUST	JB-99	ELKAY	LK-99	DEARBORN				
	SINK IS TO BE 18 GAUGE STAINLESS STEEL, SELF-RIMMING, DECK MOUNTED FAUCET SHALL BE CHROME FINISHED, WITH 1/2" INLET AND PROVIDED WITH AN AERATOR. RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS AND FLANGE. INLET AND OUTLET SHALL BE 3/8" IPS.									
TD-1	TRENCH DRAIN	ZURN	Z-890	JOSAM		JR SMITH				4"
	COORDINATE LOCATION AND LENGTH WITH ARCHITECT									
WC-1	WATER CLOSET	KOHLER	K-947	ELJER	09-7045	TOTO	CST704L			4"
	SEAT	KOHLER	K-4670-C	ELJER	124-0265	TOTO	SC34			
	SUPPLY	McGUIRE	185	KOHLER	K-7638	ELJER	802-0225	1/2"		
	TOILET SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH AND A 1/2" ROUGH-IN. TOILET SHALL INCLUDE POLISHED CHROME TRIP LEVER. SEAT SHALL BE EXTRA HEAVY WEIGHT SOLID PLASTIC WITH OPEN FRONT LESS COVER FOR ELONGATED BOWL. SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS, FULL TURN BRASS STEM AND FLANGE. INLET SHALL BE 3/8" IPS. OUTLET SHALL BE 3/8" IPS. THE FLUSHING LEVER MECHANISM SHALL BE ON THE WIDE SIDE OF THE STALL.									



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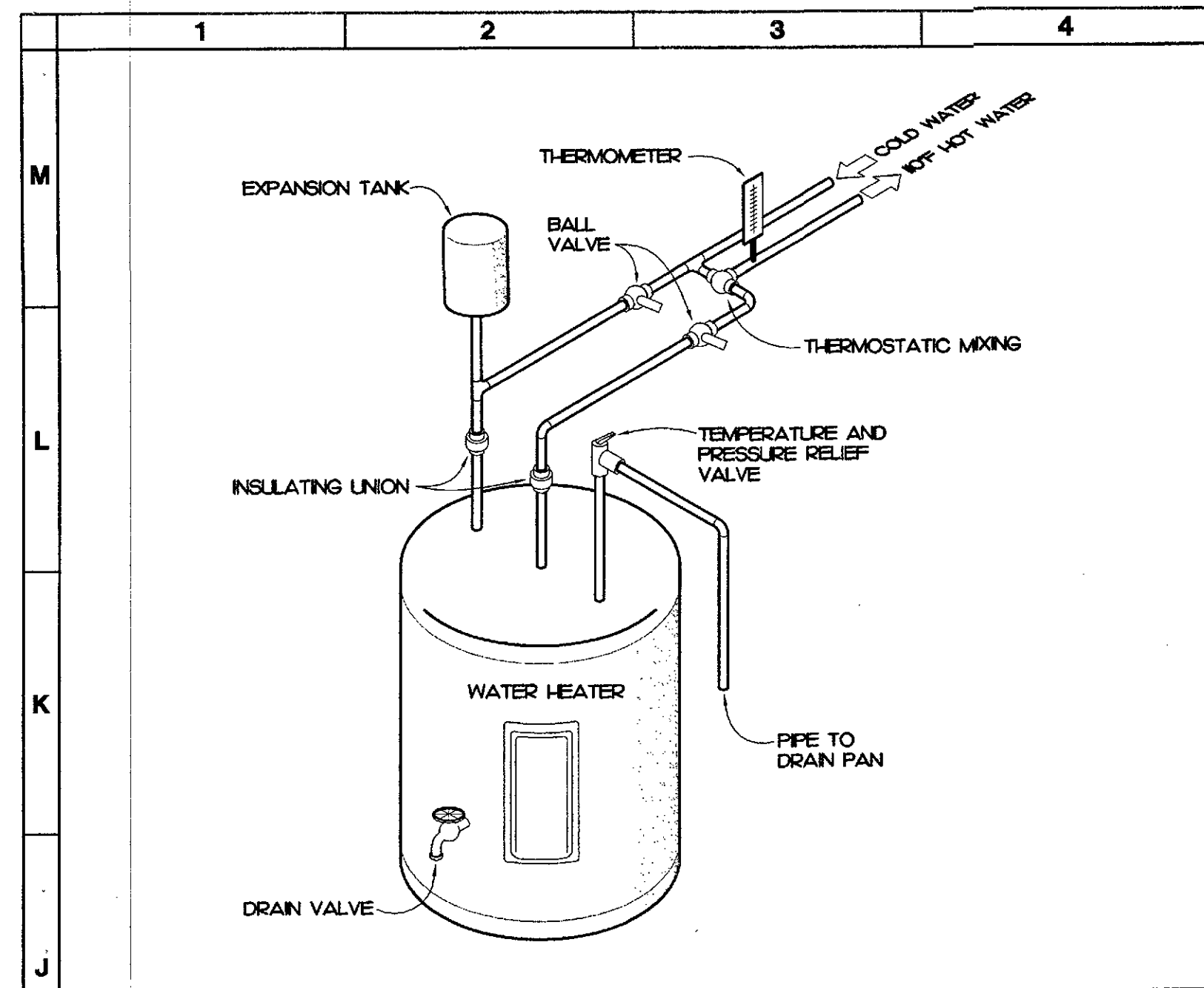
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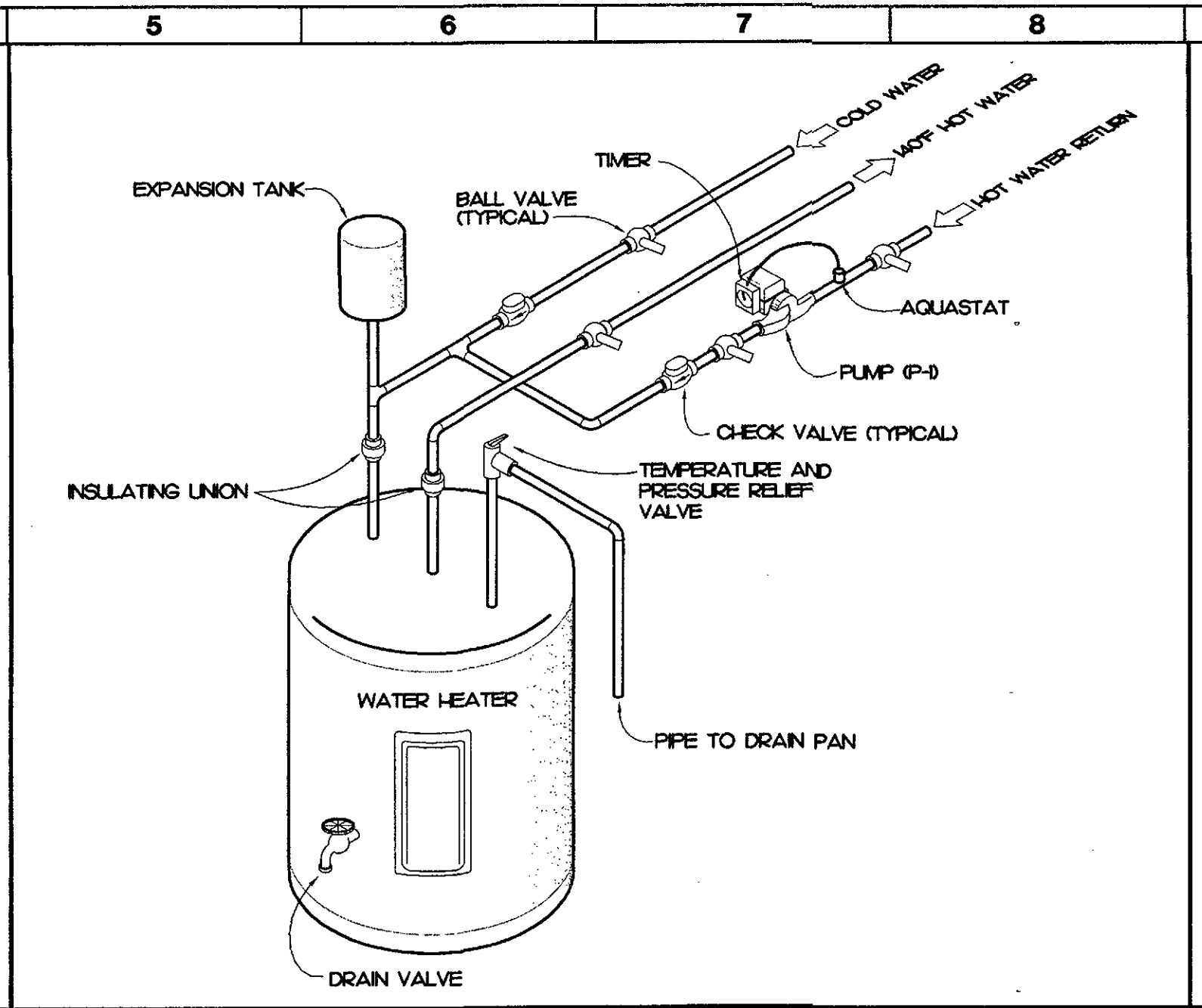
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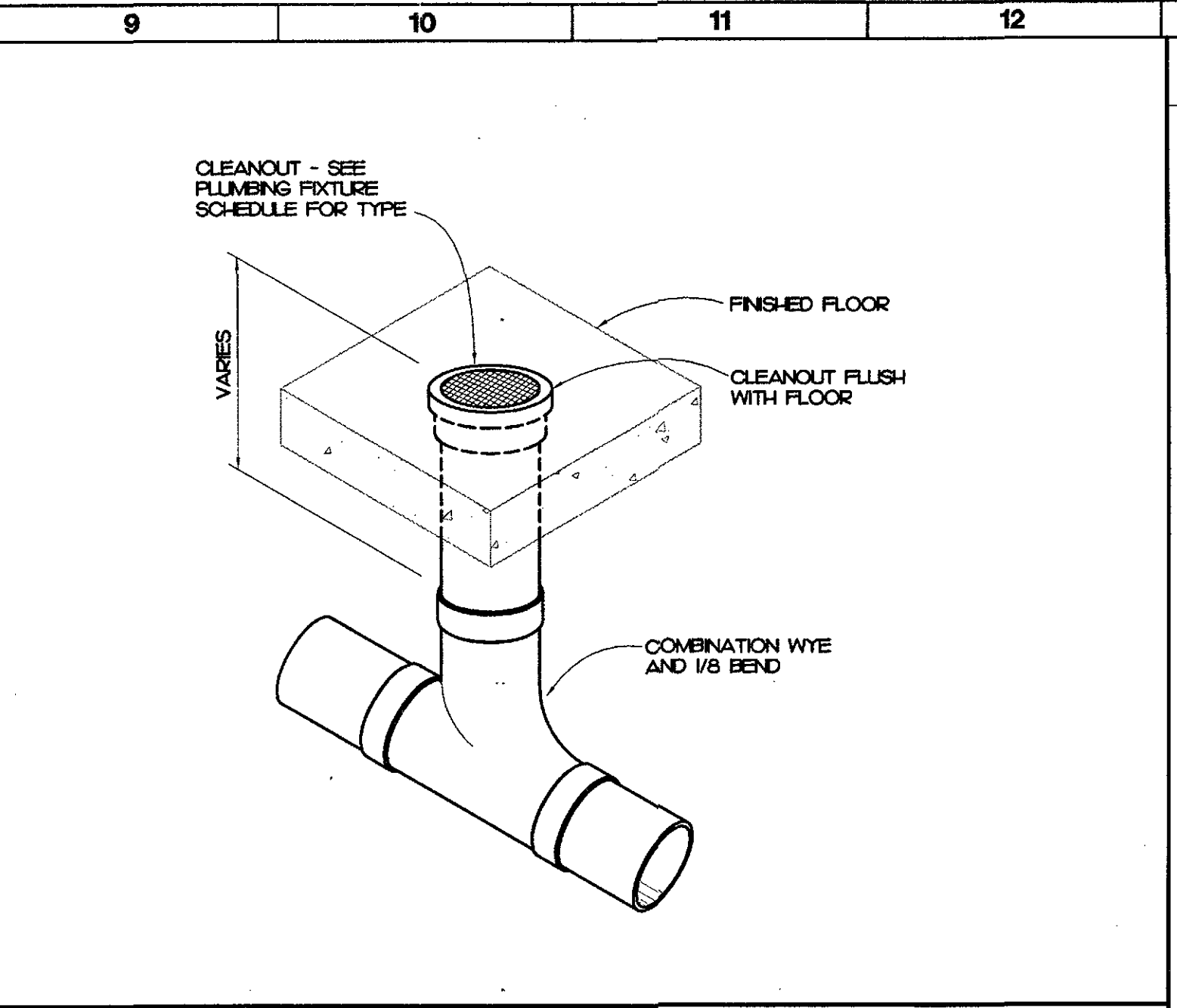
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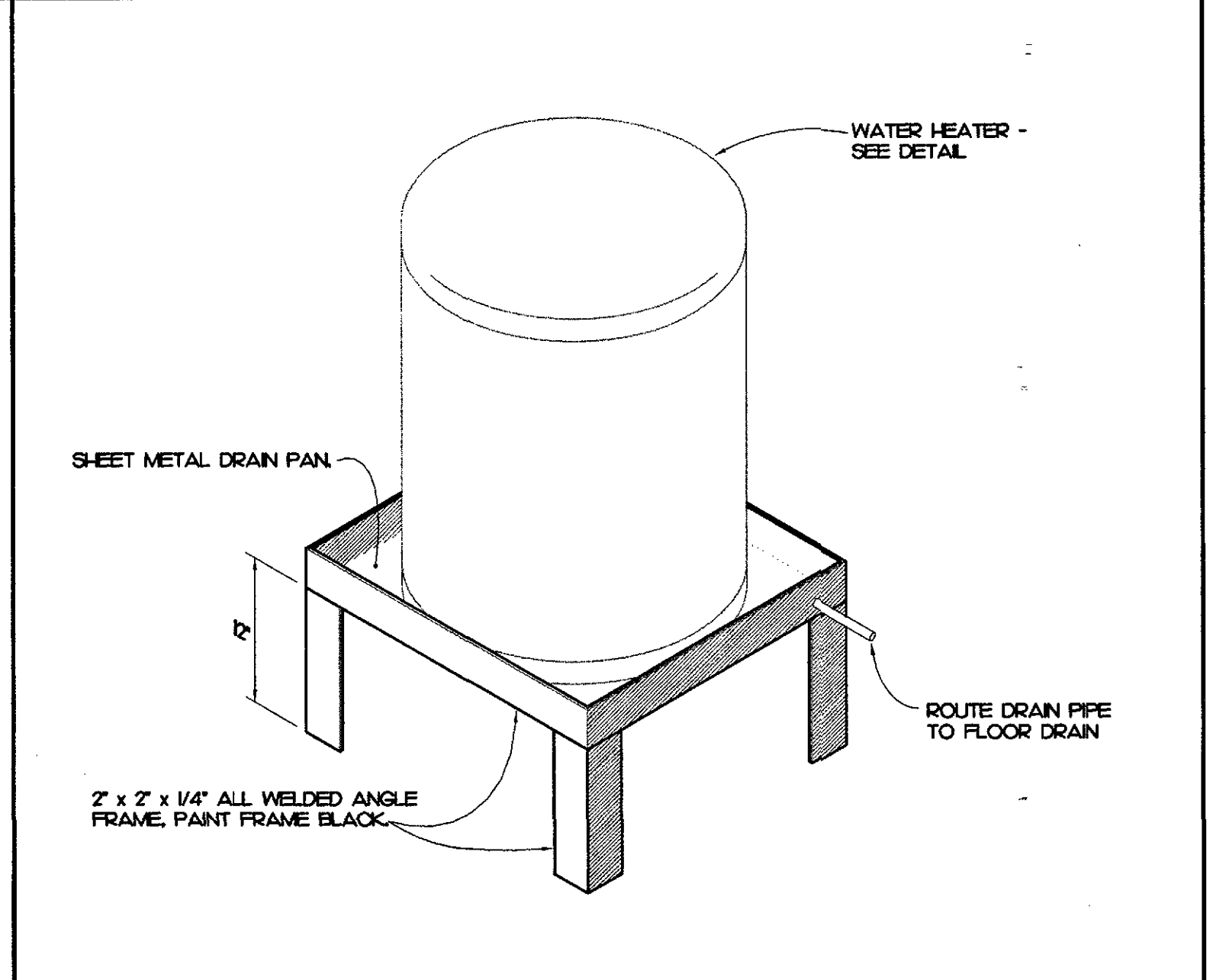
1J WATER HEATER DETAIL
NOT TO SCALE WH-1



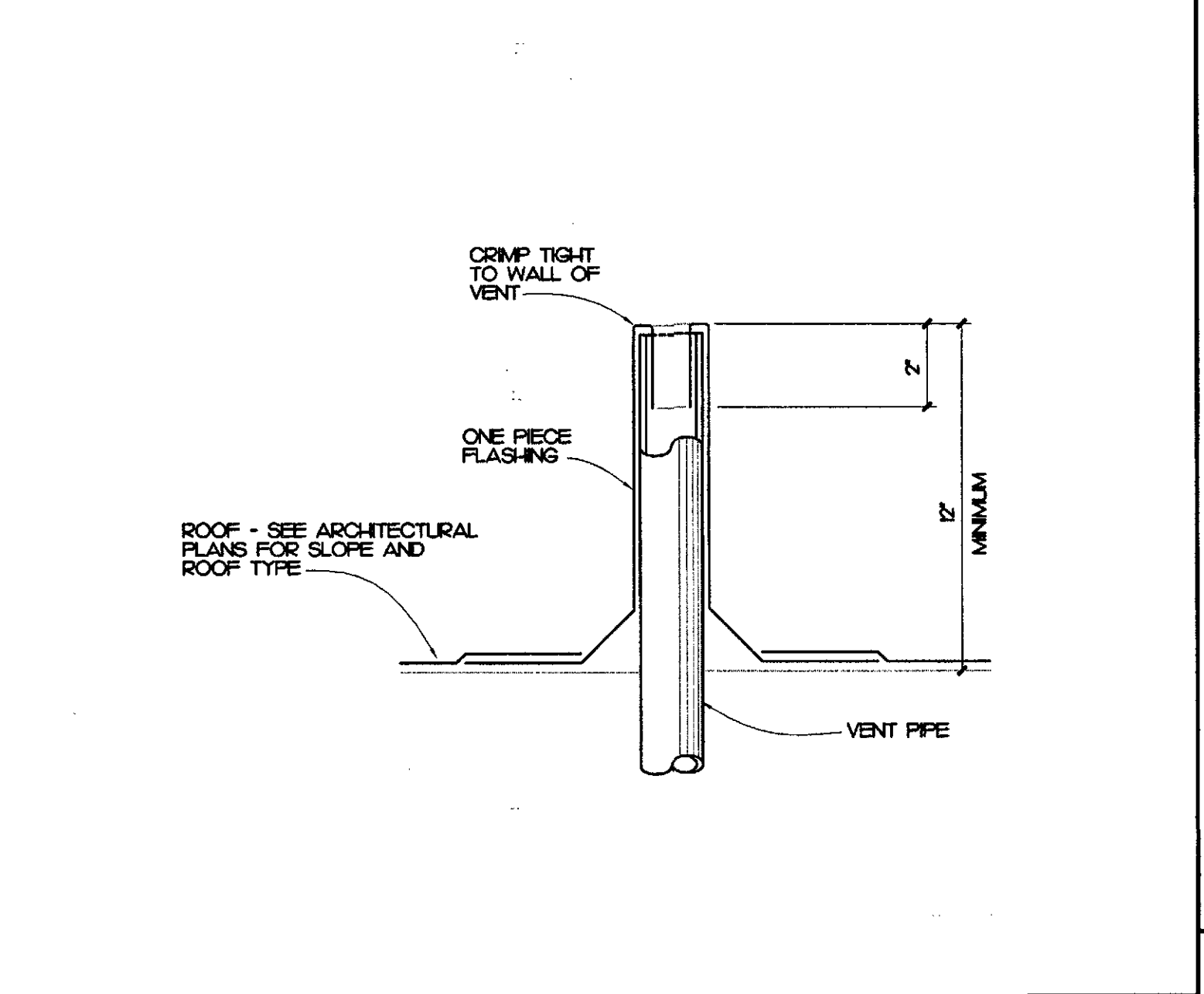
5J WATER HEATER DETAIL
NOT TO SCALE WH-2



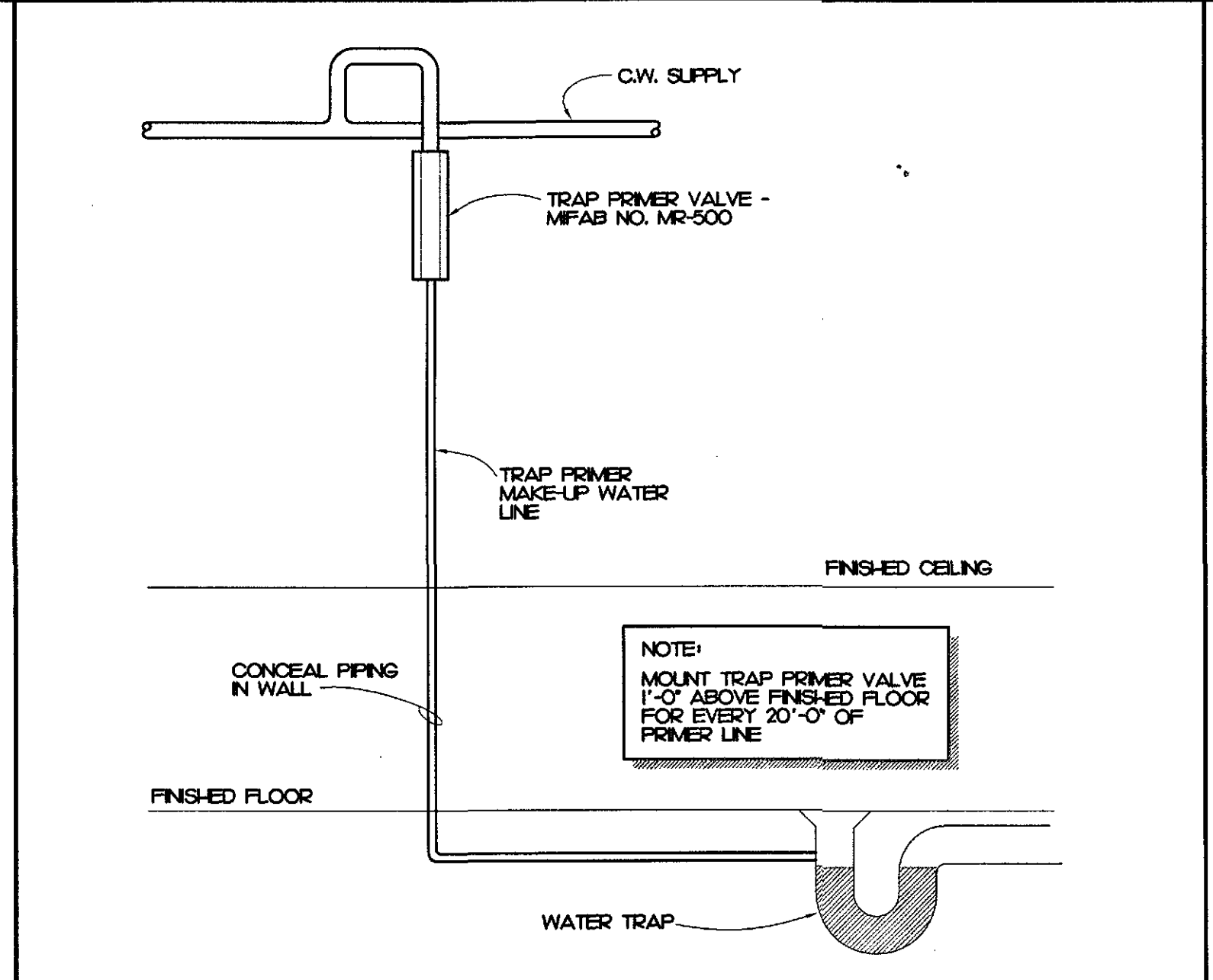
9J FLOOR CLEANOUT DETAIL
NOT TO SCALE



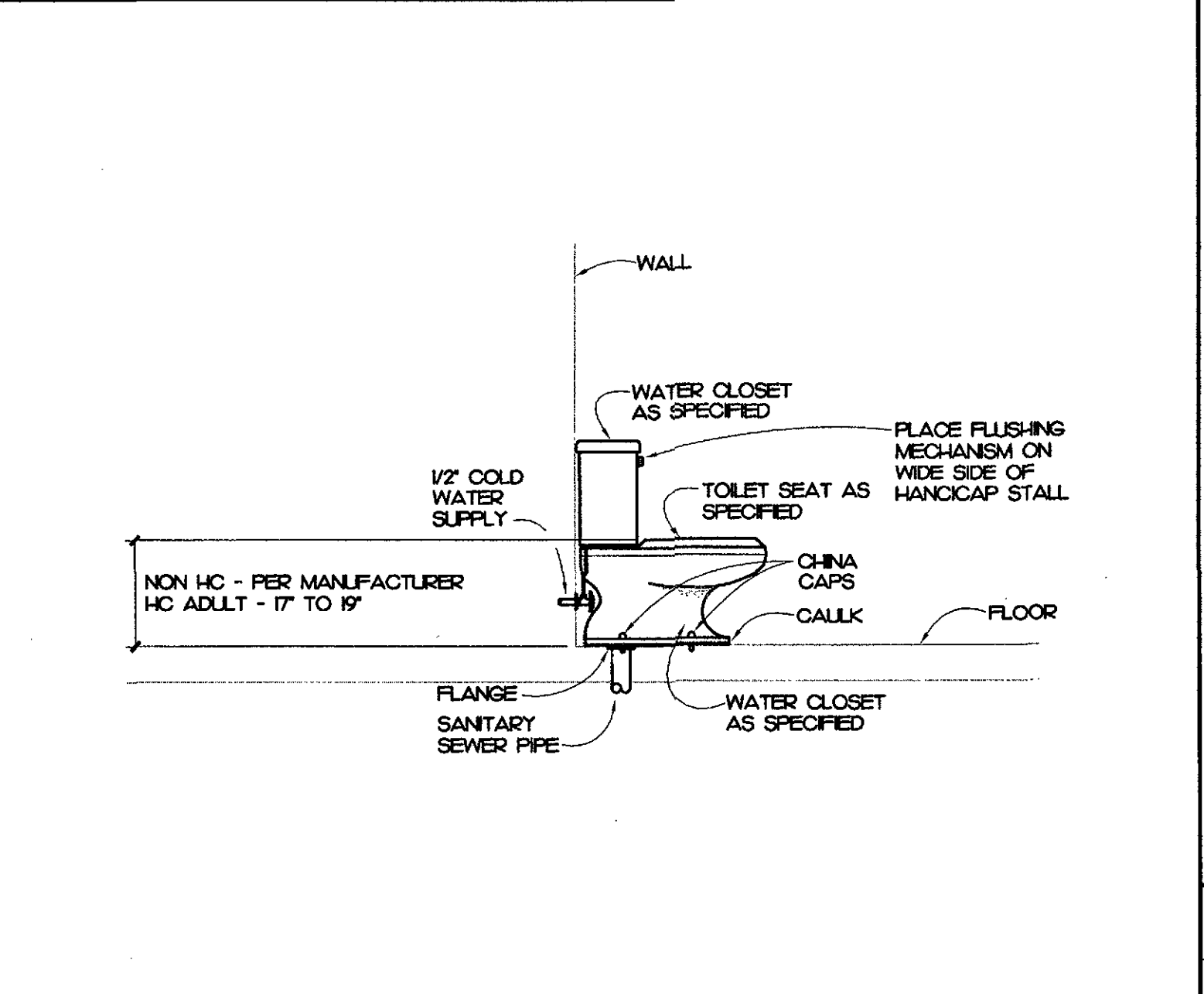
5E WATER HEATER MOUNTING
NOT TO SCALE



9E VENT THROUGH ROOF
NOT TO SCALE



5A TRAP PRIMER DETAIL
NOT TO SCALE



9A WATER CLOSET DETAIL
NOT TO SCALE

- ### PLUMBING GENERAL NOTES
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES.
 - ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE PLUMBING CONTRACTOR.
 - ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMAN. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL OF HIS WORK WITH ALL OTHER CONTRACTORS.
 - THE PLUMBING PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION. ALL DISCREPANCIES OR INTERFERENCES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.
 - THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS, REFER TO THE ARCHITECTURAL PLANS.
 - THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK. THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR AND FINISHING BY GENERAL CONTRACTOR.
 - WATER PIPING BELOW GRADE SHALL BE TYPE "K" COPPER (NO JOINTS BELOW GRADE) AND ABOVE GRADE TYPE "L" COPPER. SUPPORTED AS REQUIRED AND SHALL BE HYDROSTATICALLY TESTED FOR ONE HOUR AT 80 PSI. TEST TO COMPLY WITH ALL EPA STANDARDS. THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE.
 - WATER PIPING LOCATED ABOVE CEILING AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE OF CEILING INSULATION (UNDERSIDE) AND WALL INSULATION (INSIDE).
 - ALL COLD AND HOT WATER PIPING SHALL BE INSULATED. INSULATE WASTE PIPING AS DESIGNATED ON PLUMBING DRAWINGS. INSULATION SHALL BE FIBERGLASS. EXPOSED PIPING TO BE WRAPPED WITH ALUMINUM JACKET.
 - DO NOT SUPPORT PIPING FROM BAR JOIST BRIDGING AND/OR ROOF DECK.
 - WATER SHUT-OFF VALVES ABOVE FINISHED CEILING ARE TO BE FREE FROM OBSTRUCTIONS SUCH AS DUCTWORK, LIGHTS, WIRING AND OTHER PIPING SO AS TO PROVIDE EASY ACCESS. MOUNT NO MORE THAN 2'-0" ABOVE FINISHED CEILING.
 - IF THE WATER PRESSURE EXCEEDS 80 PSI A PRESSURE REDUCING VALVE SHALL BE INSTALLED WHERE THE WATER ENTERS THE BUILDING.
 - PLUMBING CONTRACTOR SHALL PROVIDE A DIELECTRIC UNION WHEN CONNECTING DISSIMILAR MATERIAL.
 - WATER HEATERS SHALL HAVE AN EFFICIENCY RATING EQUAL TO OR EXCEEDING ASHRAE 90-75, REVISED AND SO LABELED.
 - THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL CONNECTIONS TO THE EQUIPMENT FURNISHED UNDER THIS CONTRACT.
 - SANITARY SEWER AND VENT PIPING SHALL BE SCHEDULE 40 PVC. SANITARY SEWER AND VENT PIPING SHALL BE GAS AND AIR TIGHT.
 - THE PLUMBING CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION OF ANY WORK.
 - THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS FOR WORK BY OTHERS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK WITH WORK BY OTHERS AND AVOID ALL CONFLICTS.
 - LOCATIONS OF UTILITIES (WASTE AND WATER PIPING, ETC.) PROVIDED BY OTHERS, THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE FINAL CONNECTIONS AS REQUIRED.
 - VERIFY THE LOCATION OF ALL EQUIPMENT SUPPLIED BY OTHERS.
 - PROVIDE VACUUM BREAKERS ON ALL EQUIPMENT DIRECTLY CONNECTION TO THE WATER SYSTEM.
 - ALL INDIRECT WASTE IS TO BE PROVIDED WITH AN AIR GAP 2 TIMES THE SIZE OF THE WASTE INLET.
 - THE PLUMBING CONTRACTOR SHALL VERIFY BUILDING FLOOR ELEVATION IS ABOVE MAN-HOLE RIM ELEVATION OR PROVIDE A BACKWATER VALVE AS REQUIRED.
 - THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR MINOR DEMOLITION AT NO COST TO THE OWNER.
 - THE PLUMBING CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS UPON COMPLETION OF PROJECT.

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
---	COLD WATER PIPING
--->---	WATER PIPING DIRECTION OF FLOW
---	EXISTING COLD WATER PIPING
---	HOT WATER PIPING
---	EXISTING HOT WATER PIPING
---	HOT WATER RETURN PIPING
○	BALL VALVE
○	GATE VALVE
○	WATER PIPING TURNED DOWN
○	WATER PIPING TURNED UP
---	PIPING SIDE CONNECTION
---	SANITARY SEWER / WASTE PIPING
---	SANITARY SEWER / WASTE PIPING DIRECTION OF FLOW
---	EXISTING SANITARY SEWER / WASTE PIPING
---	VENT PIPING
---	VENT PIPE UP
□	PLUMBING FIXTURE PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR
□	PLUMBING FIXTURE PROVIDED BY OTHERS AND INSTALLED BY PLUMBING CONTRACTOR
○	CONNECT TO EXISTING

PLUMBING LOAD SUMMARY

WATER DEMAND FU	WATER DEMAND GPM	SANITARY SEWER DEMAND FU
206	66	148

JAMES B. DELAPA, JR.
CONSULTING ENGINEER
STATE OF NORTH CAROLINA
09B 074 PROJECT NO. 091

MILLER MOTTE
Conway, South Carolina

CBC
CUSTOM BUILDING COMPANY
Plumbing Design - Exceptional Construction

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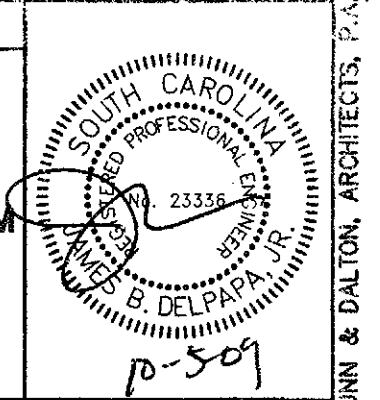
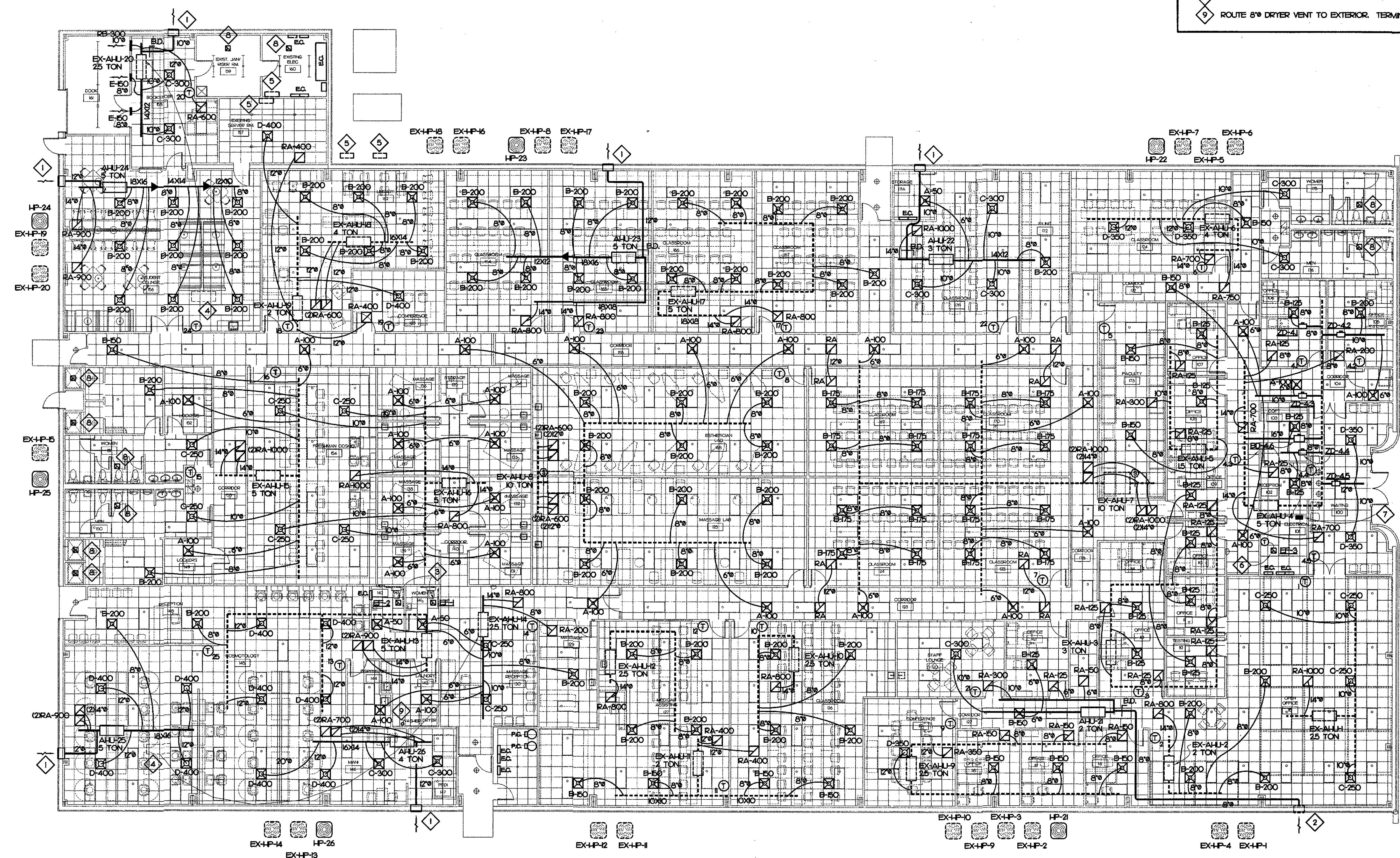
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CONSTRUCTION NOTES

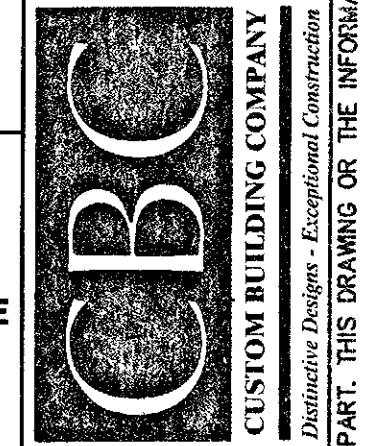
- 1 PROVIDE 24"x18" ARROW MODEL EA-45-D OUTSIDE AIR INTAKE LOUVER FOR 137 SQFT. OF FREE AREA. PROVIDE WITH WALL SLEEVE AND INSECT SCREEN. COORDINATE MOUNTING HEIGHT AND FINISH WITH ARCHITECT. MAINTAIN 10 FEET OF CLEARANCE FROM ALL BUILDING EXHAUST.
- 2 EXISTING OUTDOOR AIR INTAKE LOUVER.
- 3 ROUTE 6" EXHAUST DUCT TO EXTERIOR. TERMINATE WITH WALL CAP.
- 4 RELOCATE AIR HANDLING UNIT AS SHOWN. EXTEND/SHORTEN REFRIGERANT LINES AND CONDENSATE PIPE AS REQUIRED.
- 5 EXISTING 2 TON DUCTLESS SPLIT SYSTEM TO REMAIN.
- 6 ROUTE 10" EXHAUST DUCT TO EXTERIOR. TERMINATE WITH WALL CAP.
- 7 CARRIER CONTROL BOX: MECHANICAL CONTRACTOR TO PROVIDE WITH TRANSFORMER, 24V WIRING, ZONE DAMPERS, THERMOSTATS, ETC. FOR A COMPLETE SYSTEM. ELECTRICAL CONTRACTOR TO PROVIDE 120V POWER FOR CONTROL BOX.
- 8 EXISTING EXHAUST FAN TO REMAIN.
- 9 ROUTE 8" DRYER VENT TO EXTERIOR. TERMINATE WITH WALL CAP.



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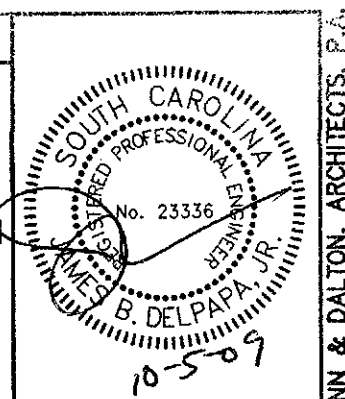
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M1.1

1A MECHANICAL PLAN

SCALE: 3/32" = 1'-0"

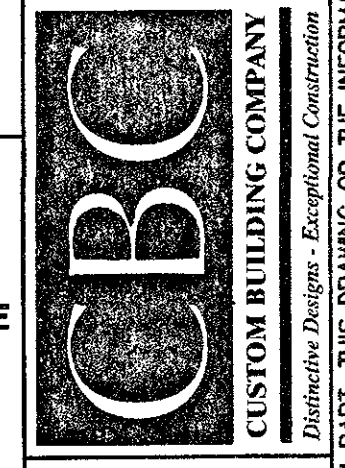
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OUTSIDE AIR SUMMARY

REQUIRED:
CLASSROOM - 13,795 SQFT. X 0.05 PEOPLE/SQFT. X 75 CFM/PERSON = 5175 CFM
OFFICE - 4820 SQFT. X 0.007 PEOPLE/SQFT. X 20 CFM/PERSON = 675 CFM
CONFERENCE - 595 SQFT. X 0.035 PEOPLE/SQFT. X 20 CFM/PERSON = 375 CFM
MEETING - 2245 SQFT. X 0.035 PEOPLE/SQFT. X 20 CFM/PERSON = 1685 CFM
RECEPTION - 1020 SQFT. X 0.05 PEOPLE/SQFT. X 15 CFM/PERSON = 75 CFM
COR/STOR/UTIL. - 6825 SQFT. X 0.05 CFM/SQFT. = 340 CFM
TOTAL = 8,965 CFM

PROVIDED:
EX-AHU-1 = 225 CFM
EX-AHU-2 = 180 CFM
EX-AHU-3 = 270 CFM
EX-AHU-4 = 540 CFM
EX-AHU-5 = 135 CFM
EX-AHU-6 = 360 CFM
EX-AHU-7 = 900 CFM
EX-AHU-8 = 900 CFM
EX-AHU-9 = 225 CFM
EX-AHU-10 = 540 CFM
EX-AHU-11 = 225 CFM
EX-AHU-12 = 450 CFM
EX-AHU-13 = 450 CFM
EX-AHU-14 = 540 CFM
EX-AHU-15 = 180 CFM
EX-AHU-16 = 360 CFM
EX-AHU-17 = 540 CFM
EX-AHU-18 = 225 CFM
EX-AHU-19 = 180 CFM
EX-AHU-20 = 225 CFM

NOTE: MECHANICAL CONTRACTOR TO RESET OUTSIDE AIR SETTING AS REQUIRED.
AHU-21 = 180 CFM
AHU-22 = 360 CFM
AHU-23 = 450 CFM
AHU-24 = 450 CFM
AHU-25 = 360 CFM
AHU-26 = 450 CFM
TOTAL = 9,935 CFM

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES.
- ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (M.C.).
- ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMAN. THE M.C. SHALL COORDINATE ALL OF HIS WORK WITH ALL OTHER CONTRACTORS.
- THE MECHANICAL PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION. ALL DISCREPANCIES OR INTERFERENCES SHALL BE BROUGHT TO THE ENGINEERS' ATTENTION.
- THESE PLANS ARE DIAGRAMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS, REFER TO THE ARCHITECTURAL PLANS.
- THE M.C. SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS, INTERLOCKS, CONTROL WIRING. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING, CONDUIT FROM THE DISCONNECT TO M.C. EQUIPMENT.
- INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AT ALL AIR HANDLING UNITS.
- INSTALL TURNING VANES IN SUPPLY DUCTS AT ELBOWS. PROVIDE BALANCING AND SPLITTER DAMPERS WHERE SHOWN AND AS REQUIRED FOR SYSTEM BALANCING.
- ALL THERMOSTATS, WIRING AND CONDUIT ARE TO BE FURNISHED BY THE M.C. MOUNT THERMOSTATS 4'-0" ABOVE THE FLOOR, UNLESS OTHERWISE NOTED.
- THE M.C. SHALL INSURE THAT ALL MECHANICAL EQUIPMENT INSTALLED UNDER HIS CONTRACT SHALL OPERATE FREE OF OBJECTIONABLE NOISE AND VIBRATION.
- THE M.C. SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF HIS WORK. HE SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN HIS CONTRACT.
- ALL DUCTWORK SIZES SHOWN ARE ACTUAL SHEET METAL DIMENSIONS. WRAP ALL DUCT WITH 2" FOIL-BACKED INSULATION.
- INSTALL A RETURN AIR DUCTWORK MOUNTED SMOKE DETECTOR IN EACH UNIT. SMOKE DETECTOR PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. WIRE TO SHUT DOWN UNIT. PROVIDE AUXILIARY CONTACTS ON EACH DUCT DETECTOR FOR ALARM AND TROUBLE CONDITIONS. ALARMS AND VISUAL SIGNAL PROVIDE THROUGH FIRE ALARM CONTROL PANEL.

SPLIT-SYSTEM HEAT PUMP SCHEDULE

INSIDE UNIT						OUTSIDE UNIT						NOTES			
MARK	BASIS OF DESIGN	FAN CFM	SUPP. HEAT	ELECTRICAL POWER	FLA/MOOP	MARK	BASIS OF DESIGN	CAPACITY TOTAL	HEATING CAPACITY	ELECTRICAL POWER	FLA/MOOP		EFFICIENCY COOLING	HEATING	
AHU-21	CARRIER F4MC024	800	0.5 1/4 6 KW	208/1	28.9	45	HP-21	CARRIER 25-ER324	22.6 MEH	17.5 MEH	23.6 MEH	208/1	121 25	13 SEER 3.52 COP	H-6
AHU-22	CARRIER F4MC036	1200	0.5 1/3 6.8 KW	208/1	32.8	50	HP-22	CARRIER 25-ER336	34.2 MEH	26.4 MEH	35.2 MEH	208/1	17.9 35	13 SEER 3.46 COP	H-6
AHU-23	CARRIER F4MC060	1800	0.5 3/4 13.5 KW	208/3	37.6	60	HP-23	CARRIER 25-ER360	59.5 MEH	45.1 MEH	58.5 MEH	208/3	19.9 35	13 SEER 3.46 COP	H-6
AHU-24	CARRIER F4MC060	1800	0.5 3/4 13.5 KW	208/3	37.6	60	HP-24	CARRIER 25-ER360	59.5 MEH	45.1 MEH	58.5 MEH	208/3	19.9 35	13 SEER 3.46 COP	H-6
AHU-25	CARRIER F4MC060	1800	0.5 3/4 13.5 KW	208/3	37.6	60	HP-25	CARRIER 25-ER360	59.5 MEH	45.1 MEH	58.5 MEH	208/3	19.9 35	13 SEER 3.46 COP	H-6
AHU-26	CARRIER F4MC048	1400	0.5 3/4 13.5 KW	208/3	37.6	60	HP-26	CARRIER 25-ER348	46.5 MEH	35.1 MEH	48.0 MEH	208/3	15.0 30	13 SEER 3.4 COP	H-6

- NOTES:**
- PROVIDE WITH CORROSION RESISTANT TREATMENT ON OUTDOOR UNIT CONDENSOR COIL.
 - PROVIDE WITH SINGLE POINT ELECTRICAL CONNECTION.
 - PROVIDE WITH PROGRAMMABLE THERMOSTAT WITH LOCKING COVER.
 - SEE OUTSIDE AIR SUMMARY FOR OUTSIDE AIR INTAKE FLOW SETTINGS.
 - ROUTE CONDENSATE TO EXTERIOR SPLASH BLOCK.
 - PROVIDE WITH LOW AMBIENT CONTROLS FOR OPERATION DOWN TO 0 DEGREES FAHRENHEIT.

GRILLE & DIFFUSER SCHEDULE

MARK	BASIS OF DESIGN	SERVICE	TYPE	MAX. CFM	FACE SIZE	NECK SIZE	NOTES
A	PRICE SMD	SUPPLY	LOUVERED LAY-IN	100	24X24	6"	L2
B	PRICE SMD	SUPPLY	LOUVERED LAY-IN	200	24X24	8"	L2
C	PRICE SMD	SUPPLY	LOUVERED LAY-IN	300	24X24	10"	L2
D	PRICE SMD	SUPPLY	LOUVERED LAY-IN	450	24X24	12"	L2
E	PRICE SMD	SUPPLY	SURFACE MOUNT	150	12X6	8"	L2
RA	PRICE S30	RETURN	LOUVERED LAY-IN	1000	24X24	SEE DWG	L23
EA	PRICE S30	EXHAUST	LOUVERED LAY-IN	1000	24X24	SEE DWG	L23

- NOTES:**
- PROVIDE WITH WHITE FINISH.
 - PROVIDE WITH INSULATED SHEET METAL FLENUM.
 - RETURN GRILLES TO HAVE FULL LOUVERED FACE.
 - PROVIDE WITH 7 DISPOSABLE FILTER AND HINGED FACE WITH LOCKING CLIPS.

EXHAUST FAN SCHEDULE

MARK	BASIS OF DESIGN	SERVICE	TYPE	CFM	RPM	HP/AMPS	S.P.	POWER	NOTES
EF-1	COOK GC-140	WOMEN 141	CABINET FAN	105	500	67 Watts	0.25'	120/1	23
EF-2	COOK GC-140	MEN 142	CABINET FAN	105	500	67 Watts	0.25'	120/1	23
EF-3	COOK GC-260	ELEC. 101	CABINET FAN	250	500	182 Watts	0.25'	120/1	12

- NOTES:**
- CONTROL VIA WALL MOUNTED THERMOSTAT.
 - PROVIDE WITH BACKDRAFT DAMPER.
 - CONTROL VIA LIGHT SWITCH BY E.C.

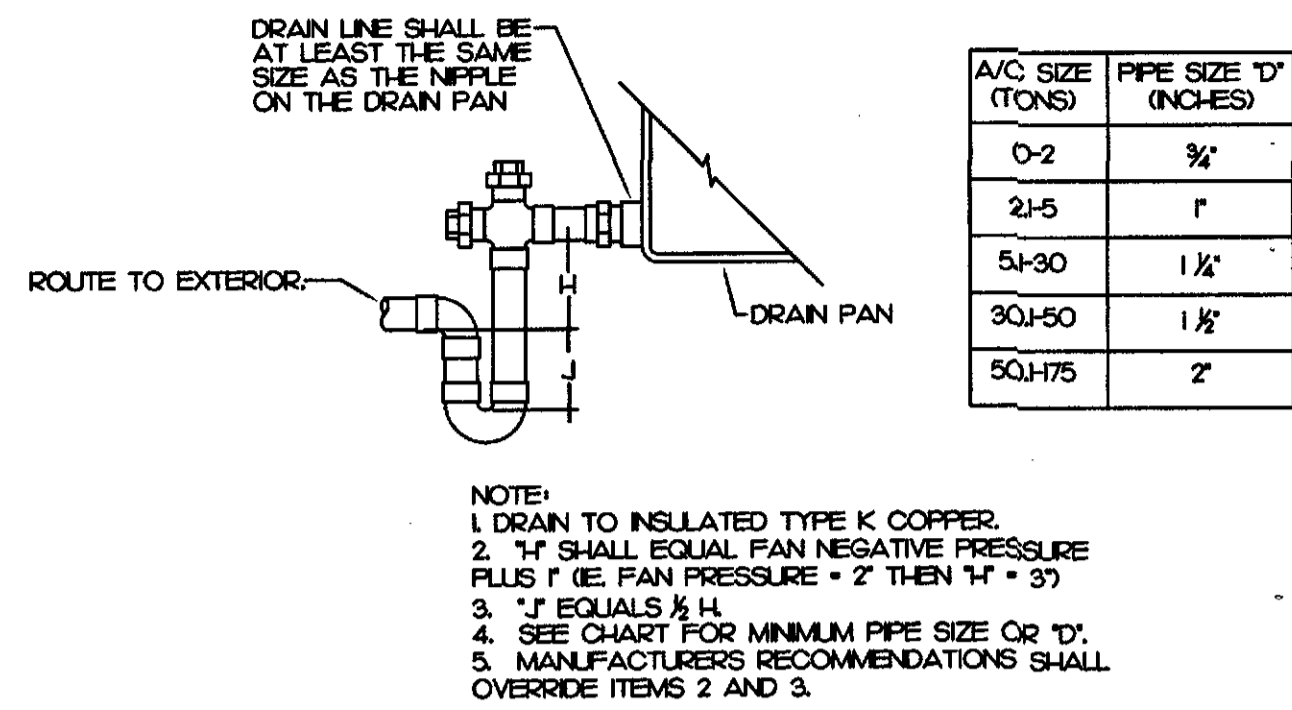
ZONE DAMPER SCHEDULE

MARK	BASIS OF DESIGN	COOLING AIRFLOW	INLET	OUTLET	VOLTAGE	NOTES
ZD-41	CARRIER ZD-06	150	8"	8"	24V	I-3
ZD-42	CARRIER ZD-10	300	10"	10"	24V	I-3
ZD-43	CARRIER ZD-10	450	10"	10"	24V	I-3
ZD-44	CARRIER ZD-10	250	10"	10"	24V	I-3
ZD-45	CARRIER ZD-12	700	12"	12"	24V	I-3
BD-46	CARRIER ZD-16	1600	16"	16"	24V	L24

- NOTES:**
- PROVIDE ALL ACCESSORIES NECESSARY TO COMPLETE THE CARRIER ZONE CONTROL SYSTEM.
 - E.C. TO PROVIDE 120V POWER. M.C. TO PROVIDE 120V/24V TRANSFORMER AND ALL OTHER WIRING.
 - DAMPERS TO BE CONTROLLED BY SUPPLY AIR TEMPERATURE SENSOR.
 - DAMPERS TO BE CONTROLLED BY BAROMETRIC PRESSURE SENSOR.

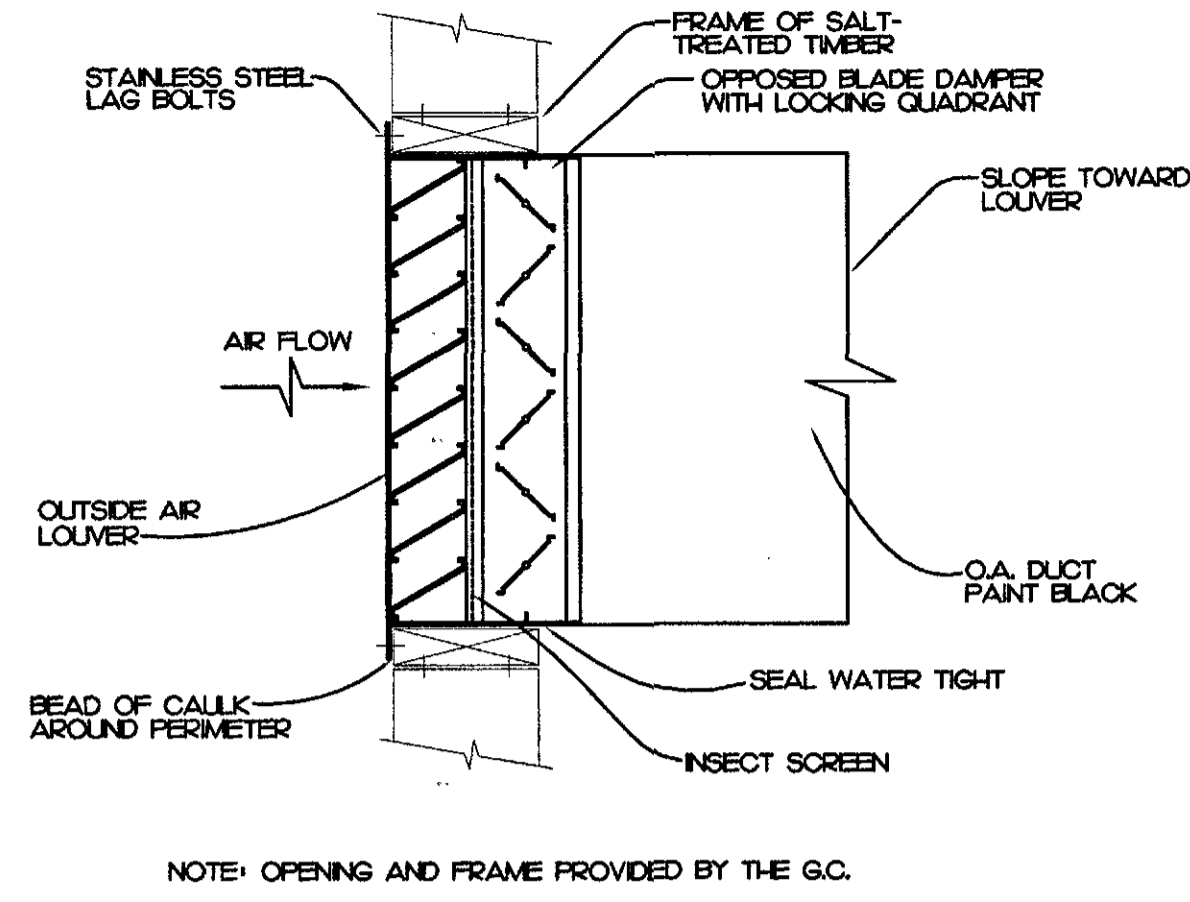
SYMBOL LEGEND

- SUPPLY DIFFUSER - LETTER & NUMBER INDICATES TYPE & CFM
- RETURN GRILLE - LETTER & NUMBER INDICATES TYPE & CFM
- EXHAUST GRILLE - LETTER & NUMBER INDICATES TYPE & CFM
- EXISTING SHEET METAL DUCT
- NEW SHEET METAL DUCT
- NEW FLEXIBLE DUCT
- BALANCING DAMPER
- DUCT-MOUNTED SMOKE DETECTOR - PROVIDED BY E.C. & INSTALLED BY THE MECHANICAL CONTRACTOR - WIRE TO SHUT DOWN UNIT
- THERMOSTAT - MOUNTED 48" ABOVE FINISHED FLOOR
- E.C. ELECTRICAL EQUIPMENT BY ELECTRICAL CONTRACTOR ROUTE DUCTWORK TO AVOID
- P.C. PLUMBING EQUIPMENT BY PLUMBING CONTRACTOR ROUTE DUCTWORK TO AVOID
- NEW MECHANICAL UNIT - SEE M21 FOR SCHEDULE
- EXISTING UNIT TO REMAIN
- EXISTING UNIT TO BE RELOCATED



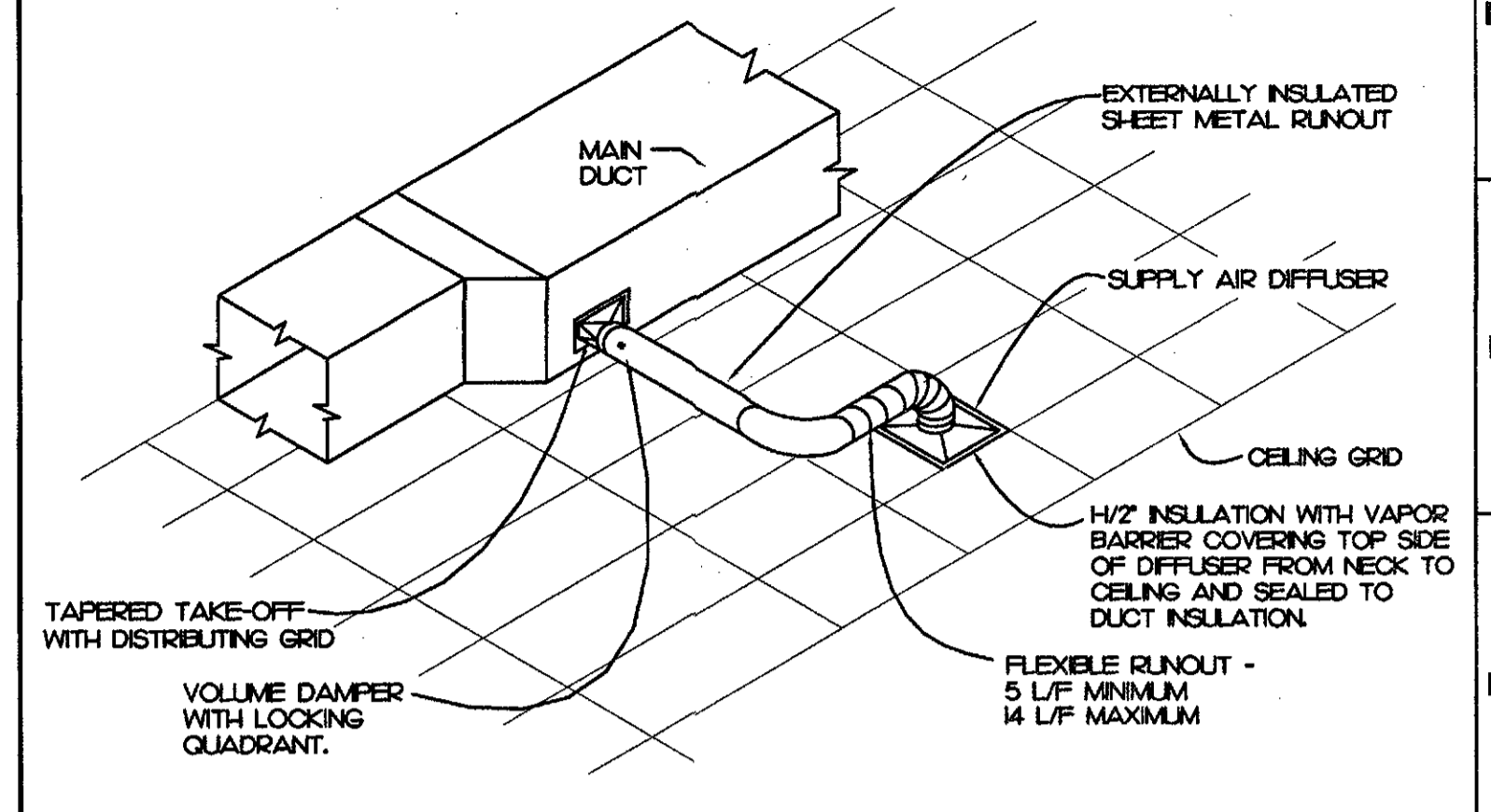
5J CONDENSATE TRAP DETAIL

NOT TO SCALE



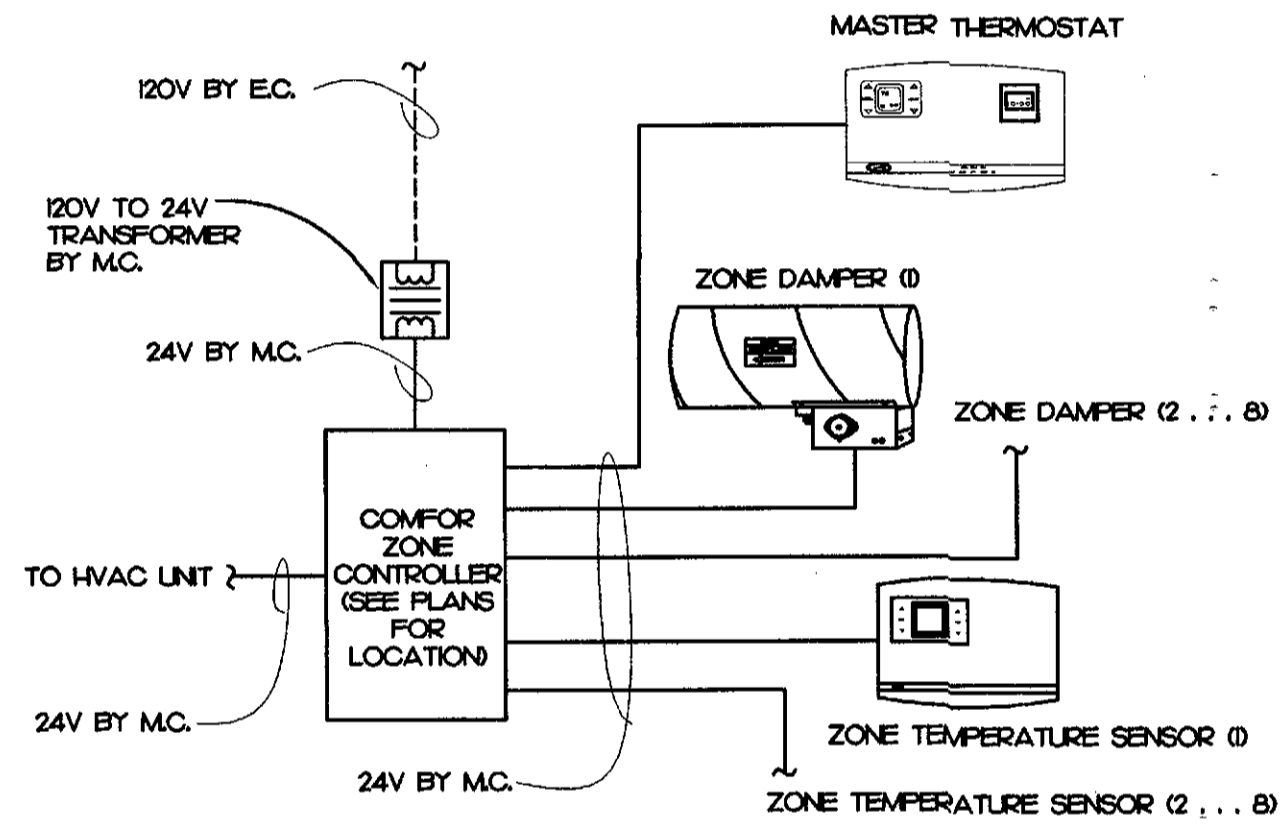
9J OUTSIDE AIR INTAKE LOUVER

NOT TO SCALE



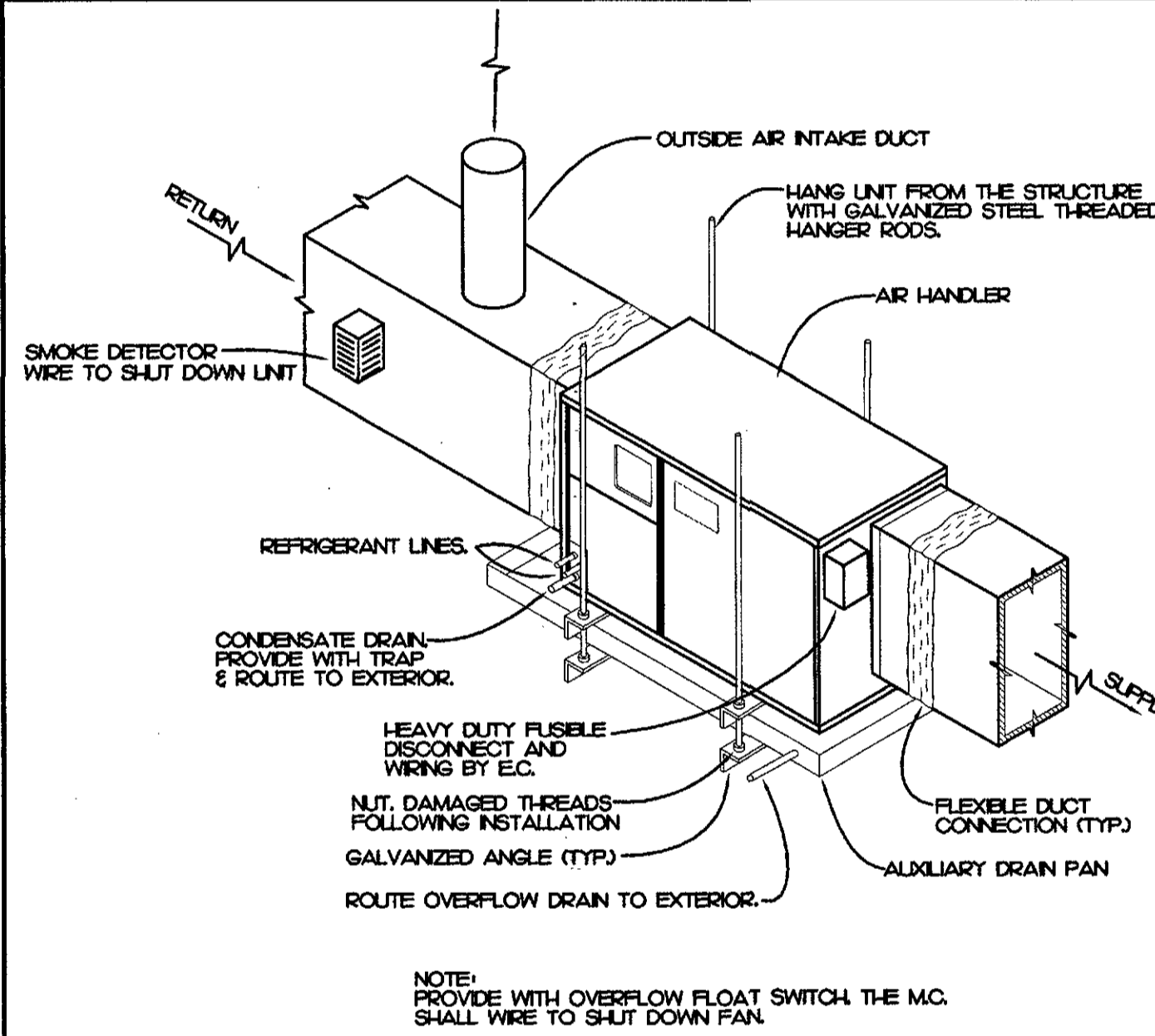
13J LAY-IN DIFFUSER DETAIL

NOT TO SCALE



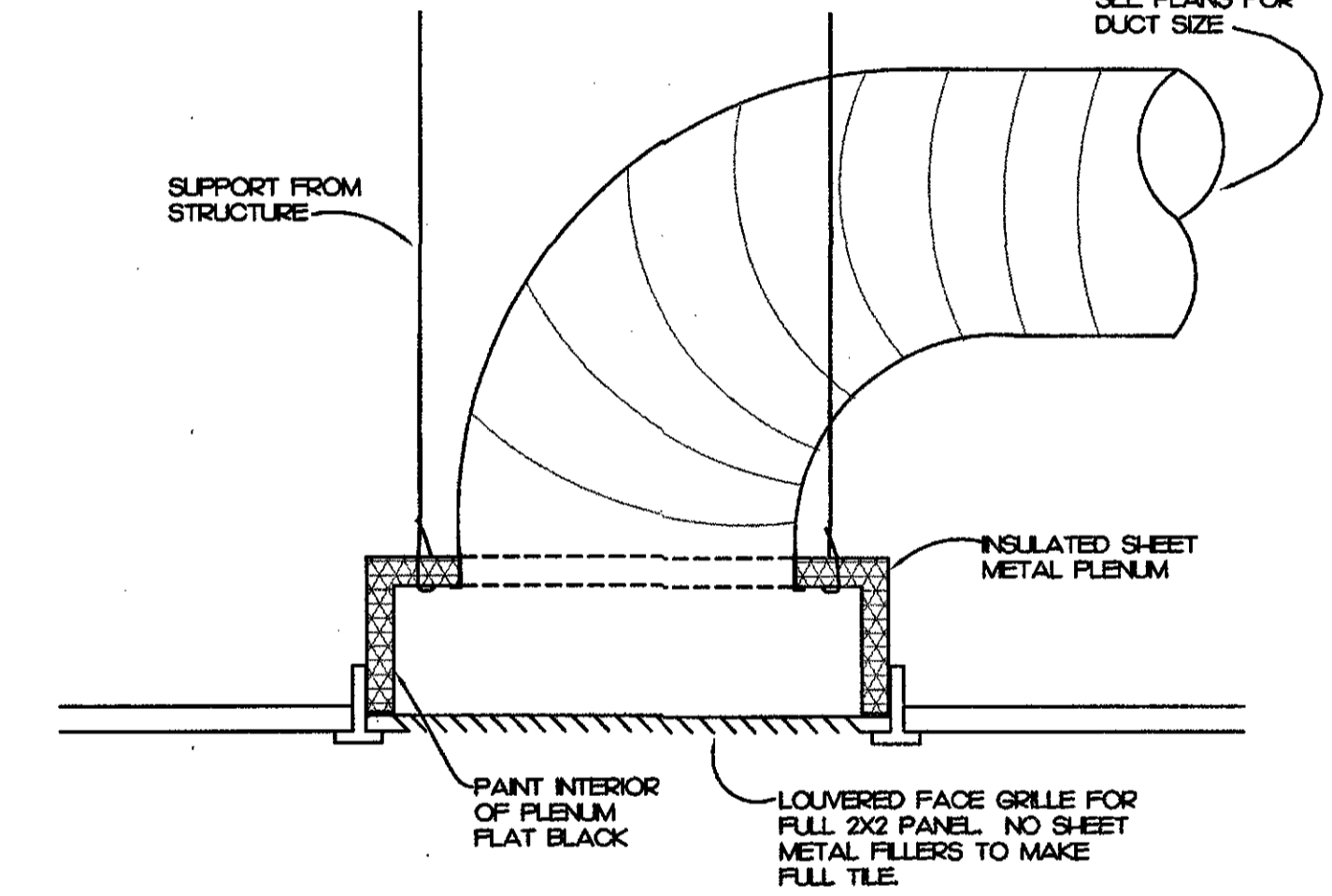
5E ZONE CONTROL DIAGRAM

NOT TO SCALE



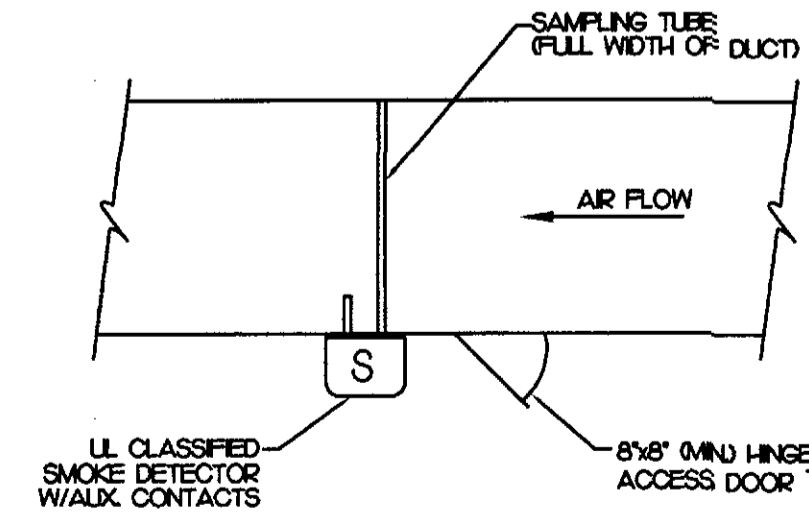
9E AIR HANDLING UNIT DETAIL

NOT TO SCALE



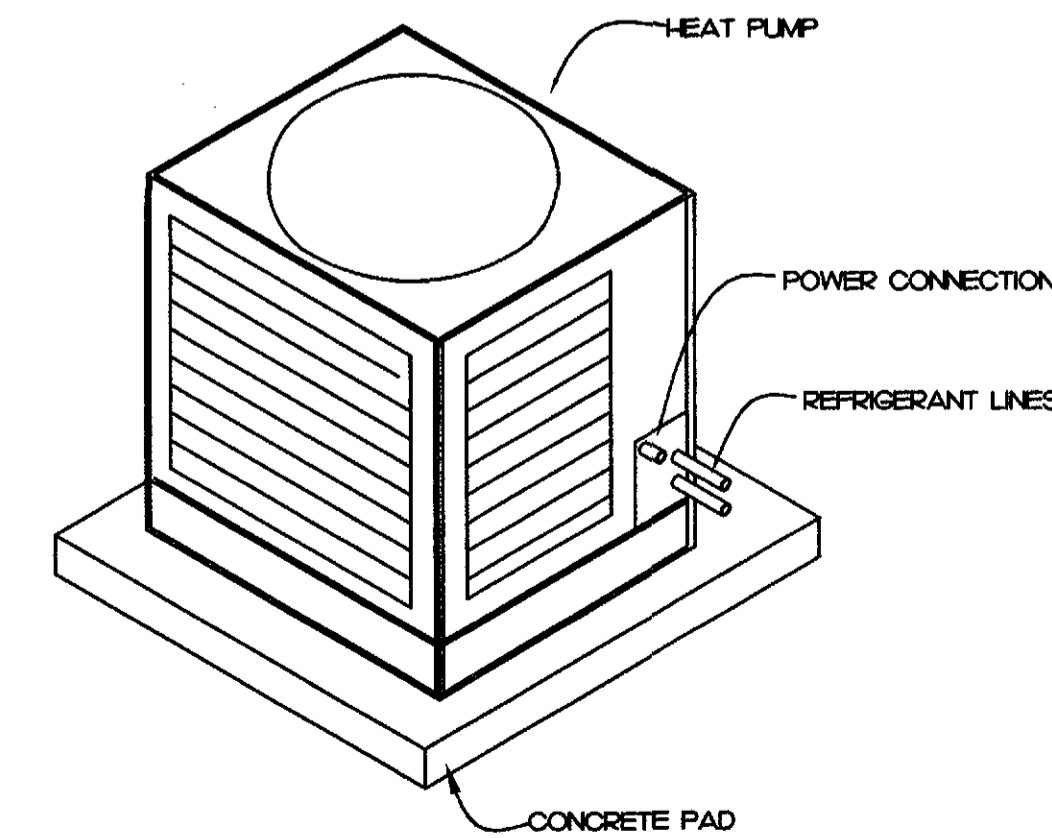
13E RETURN GRILLE DETAIL

NOT TO SCALE



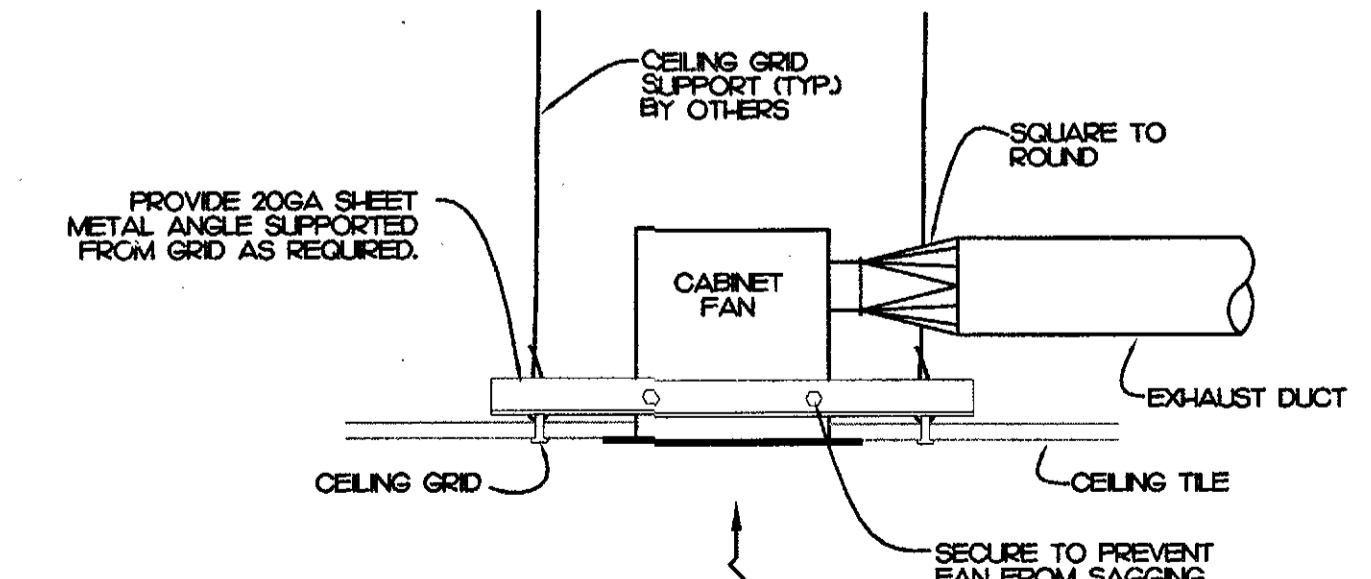
5A SMOKE DETECTOR DETAIL

NOT TO SCALE



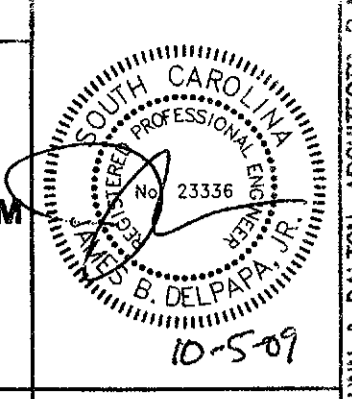
9A HEAT PUMP DETAIL

NOT TO SCALE



13A CABINET FAN DETAIL

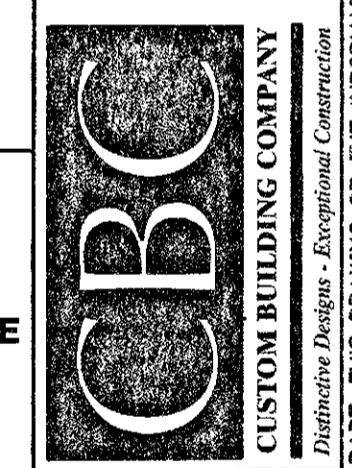
NOT TO SCALE



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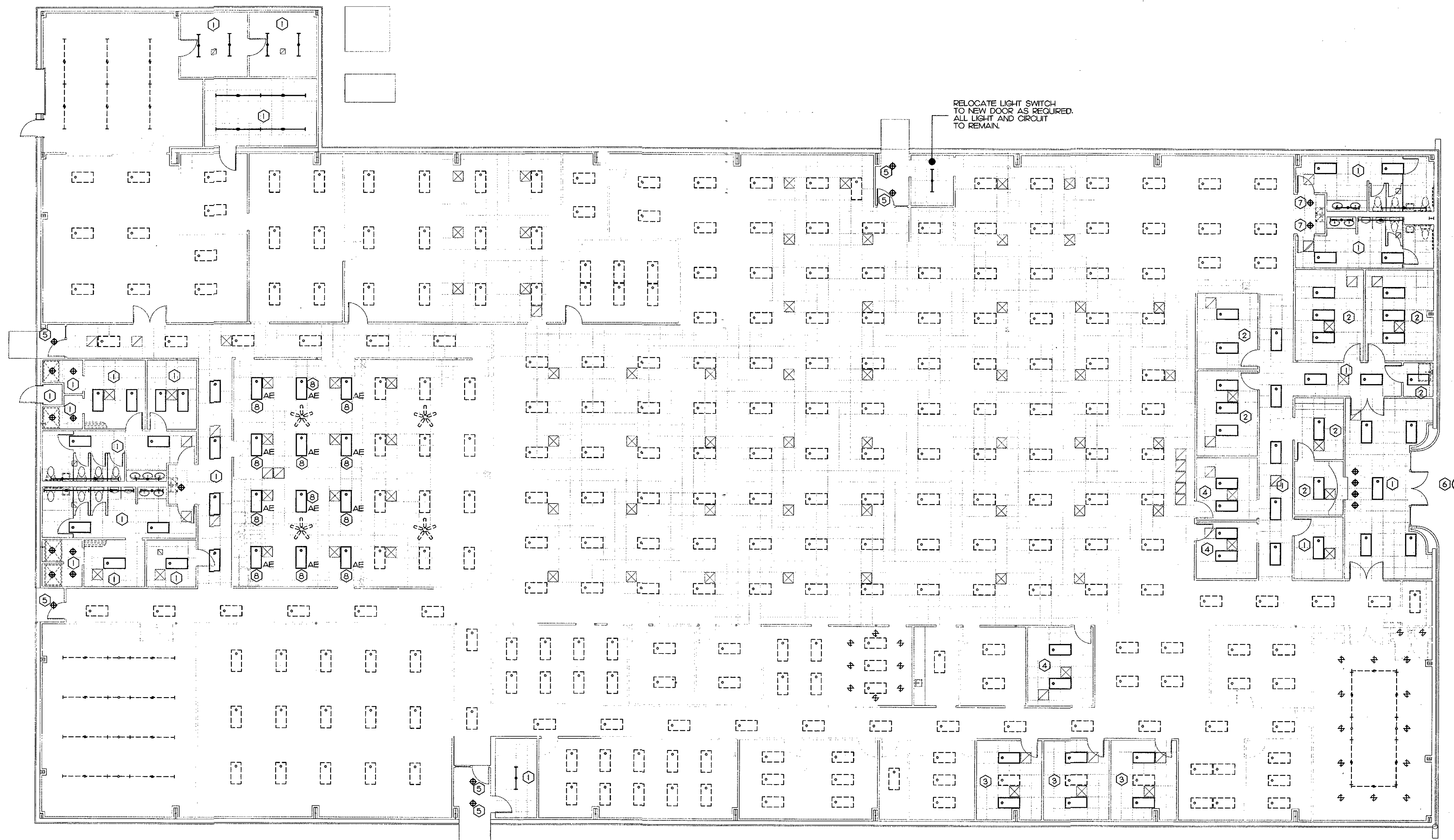
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 Revisions:

M3.1

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KEY NOTES:

- ① NO DEMOLITION WORK IN THIS AREA. VERIFY LIGHTING CIRCUIT PER I/AVEI.
- ② FIXTURES AND SWITCHES IN THIS AREA TO REMAIN. SEE I/AVEI FOR NEW LIGHT CIRCUIT CONNECTION VIA LIGHTING CONTROL PANEL.
- ③ REMOVE 1 - 2'x4' FIXTURE IN THIS ROOM. ROOM TO BE WITH 2 - 2'x4' FIXTURES. MAINTAIN LIGHT SWITCH. SEE I/AVEI FOR NEW LIGHT CIRCUIT CONNECTION VIA LIGHTING CONTROL PANEL.
- ④ LIGHT FIXTURES TO REMAIN IN THIS ROOM. REPLACE WALL SWITCHES PER I/AVEI. SEE I/AVEI FOR NEW LIGHT CIRCUIT CONNECTION.
- ⑤ EXISTING RECESSED CAN FIXTURE WITH 100W MH TO REMAIN. RECONNECT TO NEW CIRCUIT AND PHOTOCELL PER I/AVEI.
- ⑥ EXISTING POWER CONNECTION FOR CAN LIGHTS AT CANOPY TO REMAIN. RECONNECT TO NEW CIRCUIT AND PHOTOCELL PER I/AVEI.
- ⑦ EXISTING CAN LIGHT. RECONNECT TO NEW CIRCUIT PER I/AVEI.
- ⑧ EXISTING LIGHT FIXTURE TO REMAIN. SEE I/AVEI FOR NEW CIRCUIT AND SWITCH CONNECTION.

DEMOLITION NOTES:

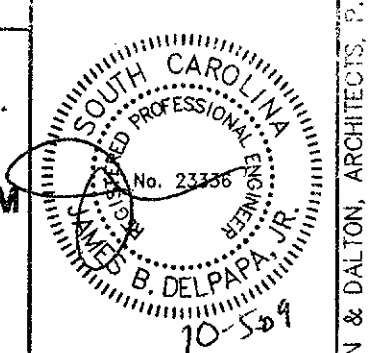
- ① ALL LIGHT FIXTURES AND SWITCHES IN ALL AREAS WITHOUT KEY NOTES SHALL BE REMOVED. EC MAY MAINTAIN EXISTING HOMERUN WIRING FOR NEW COONECTION PER I/AVEI.
- REUSE ALL FIXTURES AS REQUIRED.
- RELAMP ALL EXISTING FIXTURES TO REMAIN.

DEMOLITION LEGEND

SYMBOL	DESCRIPTION
[Symbol: 2'x4' fixture]	2'x4' FLUORESCENT LAY-IN FIXTURE TO BE REMOVED. REUSED AS TYPE 'A' AND 'B' AS REQUIRED.
[Symbol: Strip fixture]	FLUORESCENT STRIP FIXTURE TO BE REMOVED. REUSED AS TYPE 'C' AS REQUIRED.
[Symbol: Recessed can fixture]	RECESSED CAN LIGHT FIXTURE TO BE REMOVED. REUSED AS TYPE 'D' AS REQUIRED.
[Symbol: Ceiling fan]	EXISTING CEILING FAN TO BE REMOVED.
[Symbol: Equipment connection]	EXISTING EQUIPMENT CONNECTION TO BE REMOVED.
[Symbol: Disconnect]	EXISTING DISCONNECT TO BE RELOCATED.

1A LIGHTING DEMOLITION PLAN

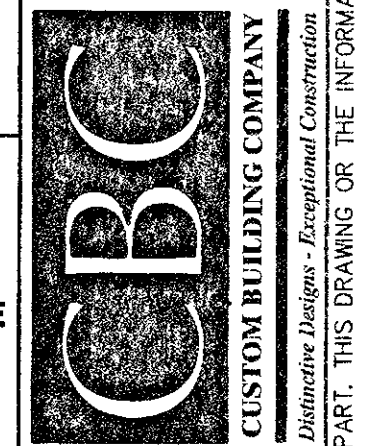
SCALE: 3/32" = 1'-0"



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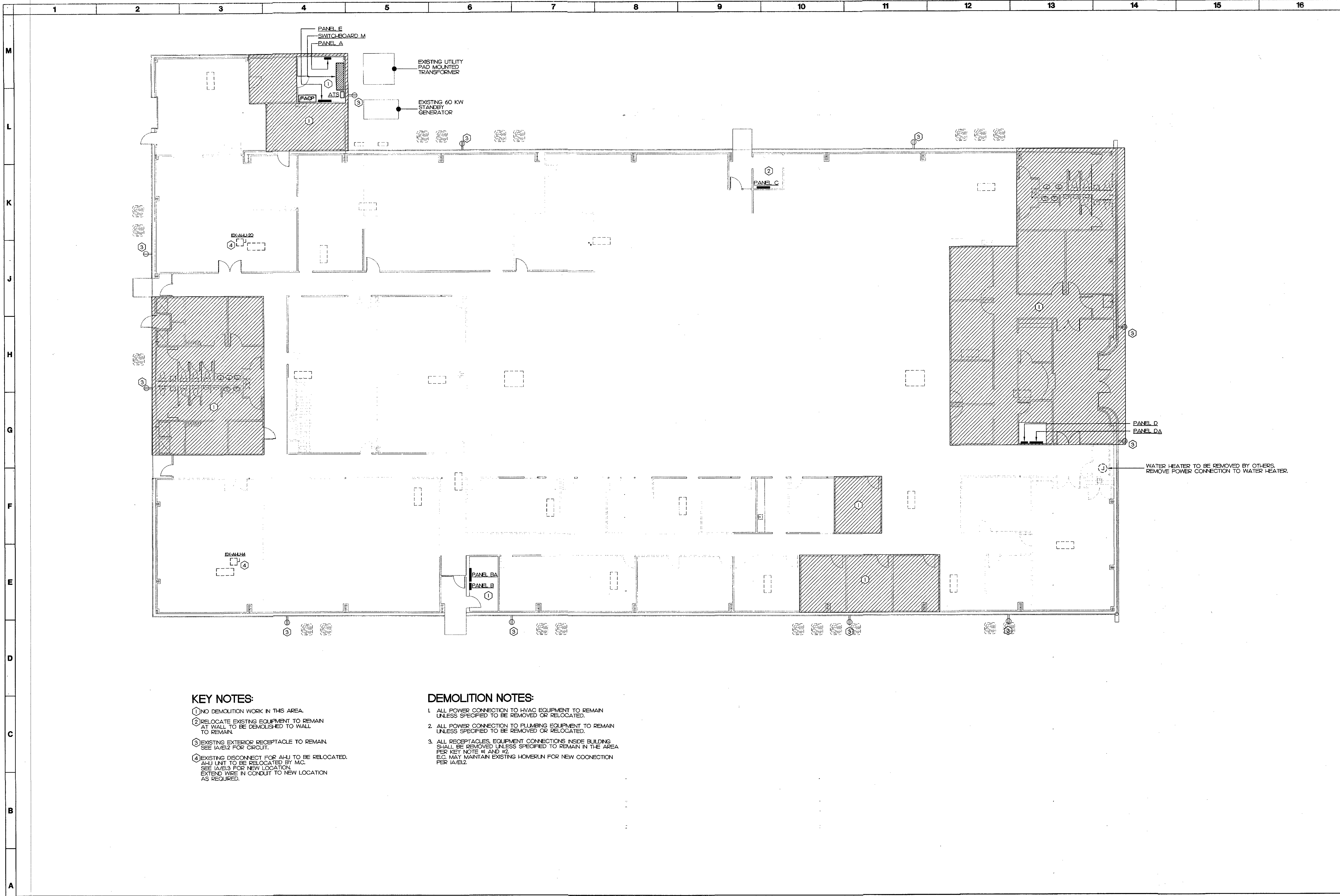
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KEY NOTES:

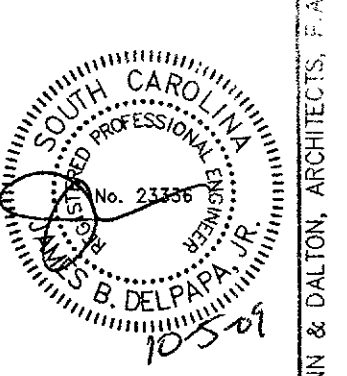
- ① NO DEMOLITION WORK IN THIS AREA.
- ② RELOCATE EXISTING EQUIPMENT TO REMAIN AT WALL TO BE DEMOLISHED TO WALL TO REMAIN.
- ③ EXISTING EXTERIOR RECEPTACLE TO REMAIN. SEE IAVE12 FOR CIRCUIT.
- ④ EXISTING DISCONNECT FOR AHJ TO BE RELOCATED. AHJ UNIT TO BE RELOCATED BY M.C. SEE IAVE13 FOR NEW LOCATION. EXTEND WIRE IN CONDUIT TO NEW LOCATION AS REQUIRED.

DEMOLITION NOTES:

- 1. ALL POWER CONNECTION TO HVAC EQUIPMENT TO REMAIN UNLESS SPECIFIED TO BE REMOVED OR RELOCATED.
- 2. ALL POWER CONNECTION TO PLUMBING EQUIPMENT TO REMAIN UNLESS SPECIFIED TO BE REMOVED OR RELOCATED.
- 3. ALL RECEPTACLES, EQUIPMENT CONNECTIONS INSIDE BUILDING SHALL BE REMOVED UNLESS SPECIFIED TO REMAIN IN THE AREA PER KEY NOTE #1 AND #2. E.G. MAY MAINTAIN EXISTING HOMERUN FOR NEW CONNECTION PER IAVE12.

1A POWER DEMOLITION PLAN

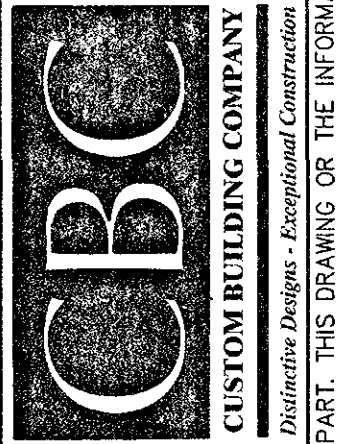
SCALE: 3/32" = 1'-0"



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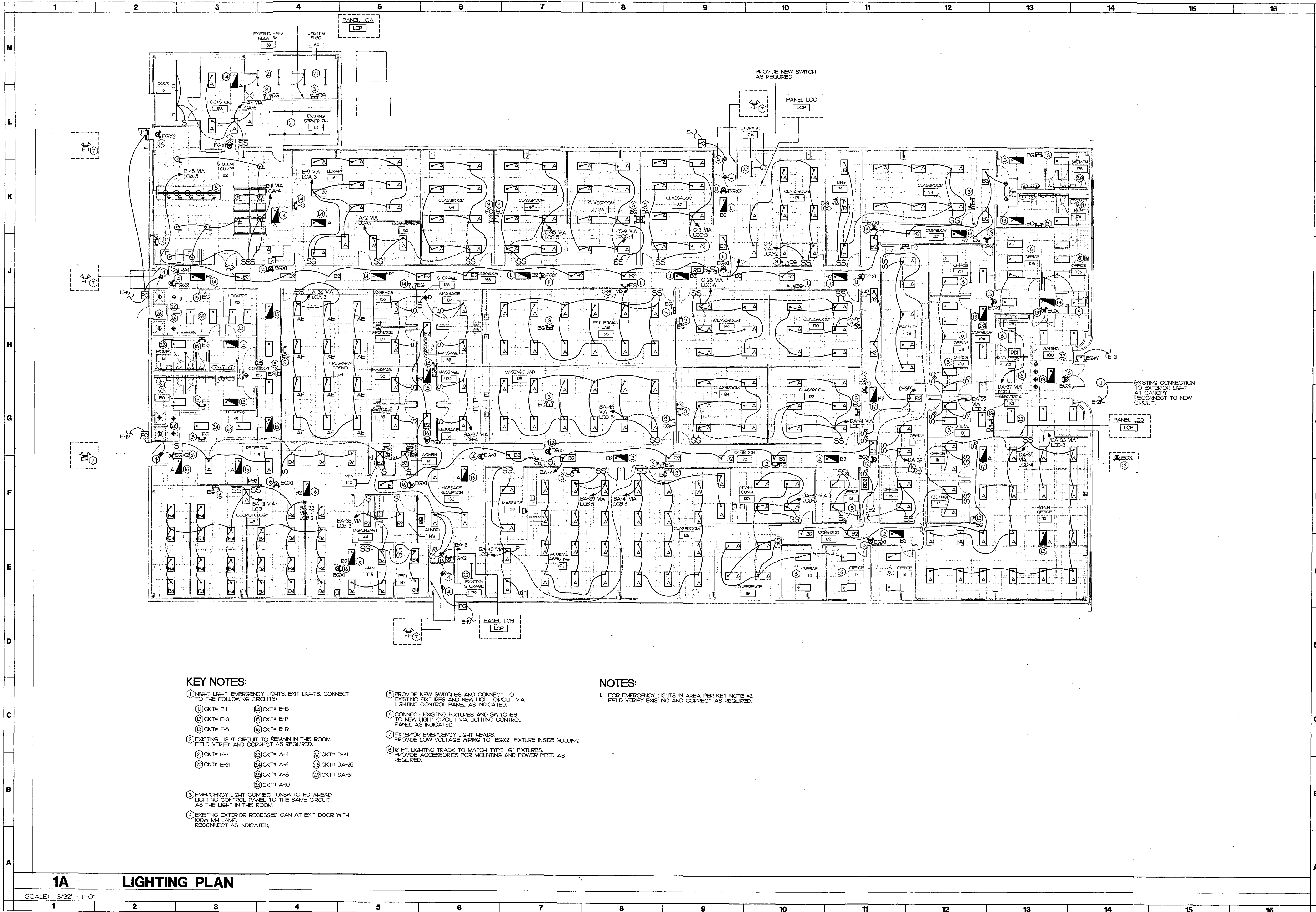


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KEY NOTES:

- 1 NIGHT LIGHT, EMERGENCY LIGHTS, EXIT LIGHTS, CONNECT TO THE FOLLOWING CIRCUITS:
 - 1) OKT# E-1 4) OKT# E-5
 - 2) OKT# E-3 5) OKT# E-7
 - 3) OKT# E-5 6) OKT# E-19
- 2) EXISTING LIGHT CIRCUIT TO REMAIN IN THIS ROOM. FIELD VERIFY AND CORRECT AS REQUIRED.
 - 7) OKT# E-7 8) OKT# A-4 9) OKT# D-41
 - 10) OKT# E-21 11) OKT# A-6 12) OKT# DA-25
 - 13) OKT# A-5 14) OKT# A-8 15) OKT# DA-31
 - 16) OKT# A-10
- 3) EMERGENCY LIGHT CONNECT UNSWITCHED AHEAD LIGHTING CONTROL PANEL TO THE SAME CIRCUIT AS THE LIGHT IN THIS ROOM.
- 4) EXISTING EXTERIOR RECESSED CAN AT EXIT DOOR WITH 100W ML LAMP. RECONNECT AS INDICATED.

- 5) PROVIDE NEW SWITCHES AND CONNECT TO EXISTING FIXTURES AND NEW LIGHT CIRCUIT VIA LIGHTING CONTROL PANEL AS INDICATED.
- 6) CONNECT EXISTING FIXTURES AND SWITCHES TO NEW LIGHT CIRCUIT VIA LIGHTING CONTROL PANEL AS INDICATED.
- 7) EXTERIOR EMERGENCY LIGHT HEADS. PROVIDE LOW VOLTAGE WIRING TO 'EGX2' FIXTURE INSIDE BUILDING.
- 8) 12 FT. LIGHTING TRACK TO MATCH TYPE 'G' FIXTURES. PROVIDE ACCESSORIES FOR MOUNTING AND POWER FEED AS REQUIRED.

NOTES:

- 1. FOR EMERGENCY LIGHTS IN AREA PER KEY NOTE #2. FIELD VERIFY EXISTING AND CORRECT AS REQUIRED.

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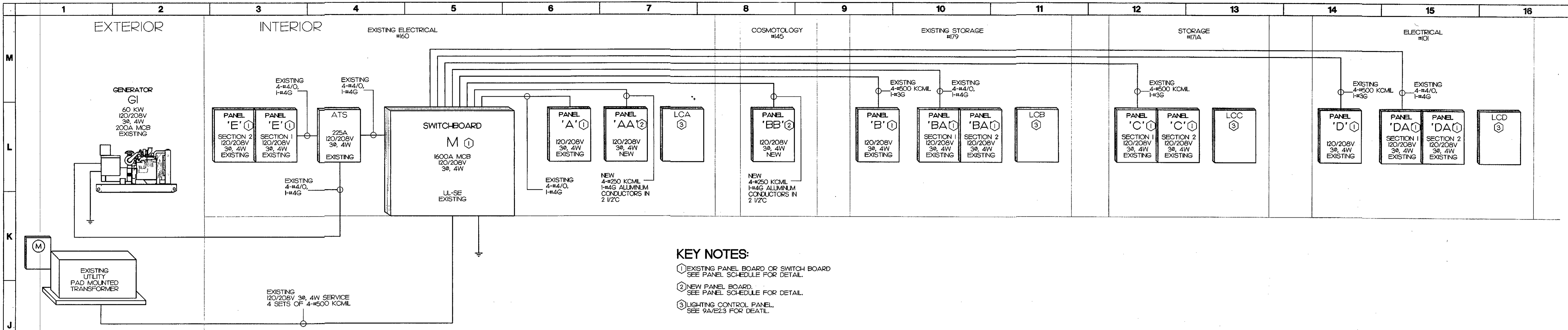
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KEY NOTES:
 ① EXISTING PANEL BOARD OR SWITCH BOARD SEE PANEL SCHEDULE FOR DETAIL.
 ② NEW PANEL BOARD SEE PANEL SCHEDULE FOR DETAIL.
 ③ LIGHTING CONTROL PANEL SEE 9A/E2.3 FOR DETAIL.

1J POWER RISER DIAGRAM

SCALE: NOT TO SCALE

SWITCHBOARD M 120/208V, 3 PHASE, 4 WIRE

OKT	DESCRIPTION	KVA	C	G	W	CB	OKT	DESCRIPTION	OKT
1	PANEL A	24.9	E	E	E	225	1	PANEL A	2
2	VIA ATS	24.2	--	--	--	3P	1	VIA ATS	2
3	PANEL B	33.6	E	E	E	400	3	PANEL C	4
4	PANEL BA	20.5	E	E	E	225	5	PANEL D	6
5	PANEL AA	15.8	2	1/2	4	250	7	PANEL DA	8
6	PANEL BB	23.8	--	--	--	250	9	SPACE ONLY	10
7	SPACE ONLY	0.0	--	--	--	--	11	SPACE ONLY	12
8	SPACE ONLY	0.0	--	--	--	--	13	SPACE ONLY	14
9	SPACE ONLY	0.0	--	--	--	--	14	SPACE ONLY	14

CONNECTED LOADS

DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
CONT. LOAD	50.3	12%	6.04
RECEPTACLE	76.26	100%/50%	38.13
MTRS/COOLS	14.33	100%	14.33
HEATS	24.32	60%	14.59
WATER HEATER	42.5	12%	5.10
EQUIPMENT	87.32	65%	56.76
KITCHEN EQUIP.	0.00	65%	0.00
SPECIAL EQ.	0.00	100%	0.00
25% OF LARGEST HVAC/MOTOR	0.00	4.00	0.00
TOTAL DEMAND	536.02		145.51 AMP

NOTES:
 1. 1600 A MINIMUM BUS SIZE
 1600 A MAIN CIRCUIT BREAKER
 42 K MINIMUM AIC RATING
 'E' DESIGNATES EXISTING PER ORIGINAL PLAN
 2. SPACE SUITABLE FOR 225A/3P FRAME BREAKER
 3. EXISTING SWITCHBOARD
 4. SURFACE MOUNTING NEMA 1 ENCLOSURE GROUND BAR
 5. UL LISTED FOR USE AS SERVICE EQUIPMENT

PANEL A 120/208V, 3 PHASE, 4 WIRE

OKT	DESCRIPTION	KVA	C	G	W	CB	OKT	DESCRIPTION	OKT
1	AHJ-20	2.9	E	E	E	40	1	SPARE	2
2	HP-20	1.5	E	E	E	25	5	LIGHTS	4
3	HP-16	3.5	E	E	E	60	9	LIGHTS	8
4	HP-8	3.5	E	E	E	25	11	LIGHTS	12
5	HP-5	3.4	E	E	E	30	15	REC	18
6	HP-17	5.4	E	E	E	17	18	REC	19
7	SPARE	0.0	--	--	--	20	23	REC	20
8	LW PUMP	0.3	E	E	E	20	25	VENDING	26
9	EXISTING WATER HEATER	2.3	E	E	E	30	27	VENDING	28
10	EXISTING WATER HEATER	2.3	E	E	E	30	31	TOILETS	32
11	SPARE	0.0	--	--	--	32	33	TOILETS	34
12	SPARE	0.0	--	--	--	36	36	LIGHTS	36
13	SPARE	0.0	--	--	--	37	37	SPRINKLER COMPRESSOR	38
14	SPARE	0.0	--	--	--	41	42	SPACE ONLY	40
15	SPARE	0.0	--	--	--	42	42	SPACE ONLY	42

CONNECTED LOADS

DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
CONT. LOAD	6.17	12%	0.74
RECEPTACLE	6.96	100%/50%	3.48
MTRS/COOLS	34.02	100%	34.02
HEATS	5.76	100%	5.76
WATER HEATER	9.00	12%	1.08
EQUIPMENT	2.70	100%	2.70
KITCHEN EQUIP.	0.00	65%	0.00
SPECIAL EQ.	0.00	100%	0.00
25% OF LARGEST HVAC/MOTOR	0.00	4.00	0.00
TOTAL DEMAND	66.39		15.51 AMP

NOTES:
 1. 225 A MINIMUM BUS SIZE
 MAIN LUGS ONLY
 32 K MINIMUM AIC RATING (SERIES RATING)
 'E' DESIGNATES EXISTING, LOAD PER ORIGINAL PLAN
 2. EXISTING PANEL BOARD
 3. SURFACE MOUNTING NEMA 1 ENCLOSURE GROUND BAR

PANEL E 120/208V, 3 PHASE, 4 WIRE

OKT	DESCRIPTION	KVA	C	G	W	CB	OKT	DESCRIPTION	OKT
1	NIGHT LIGHTS	0.5	1/2	1/2	1/2	20	1	AHJ-25	2
2	NIGHT LIGHTS	0.5	1/2	1/2	1/2	20	3	NIGHT LIGHTS	4
3	NIGHT LIGHTS	0.7	1/2	1/2	1/2	20	5	NIGHT LIGHTS	6
4	LIGHTS	57.159, 160	0.8	E	E	20	7	NIGHT LIGHTS	8
5	LIGHTS	162	1.3	1/2	1/2	20	9	LIGHTS	10
6	LIGHTS	156	1.0	1/2	1/2	20	11	LIGHTS	12
7	SPARE	0.0	--	--	--	20	13	REC	14
8	NIGHT LIGHTS	0.5	1/2	1/2	1/2	20	15	REC	16
9	NIGHT LIGHTS	0.7	1/2	1/2	1/2	20	17	REC	18
10	NIGHT LIGHTS	0.8	1/2	1/2	1/2	20	19	REC	20
11	LIGHTS	171A, 179, 101, CANOPY	1.1	1/2	1/2	20	21	REC	22
12	SPARE	0.0	--	--	--	20	23	REC	24
13	SPARE	0.0	--	--	--	20	25	VENDING	26
14	SPARE	0.0	--	--	--	20	27	VENDING	28
15	SPARE	0.0	--	--	--	20	29	SPARE	30
16	SPARE	0.0	--	--	--	35	31	SPARE	32
17	SPARE	0.0	--	--	--	35	33	SPARE	34
18	SPARE	0.0	--	--	--	36	36	SPARE	36
19	SPARE	0.0	--	--	--	37	37	SPARE	38
20	SPARE	0.0	--	--	--	40	40	SPARE	40
21	SPARE	0.0	--	--	--	42	42	SPARE	42
22	SPARE	0.0	--	--	--	43	43	SPARE	44
23	SPARE	0.0	--	--	--	44	44	SPARE	46
24	SPARE	0.0	--	--	--	44	46	SPARE	48
25	SPARE	0.0	--	--	--	50	50	SPARE	50
26	SPARE	0.0	--	--	--	52	52	SPARE	52
27	SPARE	0.0	--	--	--	53	54	SPARE	54
28	SPARE	0.0	--	--	--	55	55	SPARE	56
29	SPARE	0.0	--	--	--	57	58	SPARE	58
30	SPARE	0.0	--	--	--	59	60	SPARE	60

CONNECTED LOADS

DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
CONT. LOAD	1.41	12%	0.17
RECEPTACLE	6.84	100%/50%	3.42
MTRS/COOLS	14.77	100%	14.77
HEATS	20.32	100%	20.32
WATER HEATER	0.00	12%	0.00
EQUIPMENT	2.60	100%	2.60
KITCHEN EQUIP.	0.00	65%	0.00
SPECIAL EQ.	0.00	100%	0.00
25% OF LARGEST HVAC/MOTOR	0.00	4.00	0.00
TOTAL DEMAND	46.29		11.81 AMP

NOTES:
 1. 225 A MINIMUM BUS SIZE
 MAIN LUGS ONLY
 32 K MINIMUM AIC RATING (SERIES RATING)
 'E' DESIGNATES EXISTING, LOAD PER ORIGINAL PLAN
 2. EXISTING PANEL BOARD
 3. SURFACE MOUNTING NEMA 1 ENCLOSURE GROUND BAR

PANEL AA 120/208V, 3 PHASE, 4 WIRE

OKT	DESCRIPTION	KVA	C	G	W	CB	OKT	DESCRIPTION	OKT
1	HP-24	2.4	3/4	10	8	35	1	HP-25	2
2	HP-24	2.4	--	--	--	3P	3	HP-25	4
3	HP-24	2.4	--	--	--	8	5	HP-25	6
4	HP-24	4.5	1	10	6	60	7	AHJ-25	8
5	HP-24	4.5	--	--	--	6	9	AHJ-25	10
6	SPACE ONLY	0.0	--	--	--	11	12	SPACE ONLY	12
7	SPACE ONLY	0.0	--	--	--	13	14	SPACE ONLY	14
8	SPACE ONLY	0.0	--	--	--	15	16	SPACE ONLY	16
9	SPACE ONLY	0.0	--	--	--	17	18	SPACE ONLY	18
10	SPACE ONLY	0.0	--	--	--	19	20	SPACE ONLY	20
11	SPACE ONLY	0.0	--	--	--	21	22	SPACE ONLY	22
12	SPACE ONLY	0.0	--	--	--	23	24	SPACE ONLY	24
13	SPACE ONLY	0.0	--	--	--	25	26	SPACE ONLY	26
14	SPACE ONLY	0.0	--	--	--	27	28	SPACE ONLY	28
15	SPACE ONLY	0.0	--	--	--	29	30	SPACE ONLY	30

CONNECTED LOADS

DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
CONT. LOAD	0.00	12%	0.00
RECEPTACLE	0.00	100%/50%	0.00
MTRS/COOLS	14.33	100%	14.33
HEATS	27.07	100%	27.07
WATER HEATER	0.00	12%	0.00
EQUIPMENT	0.00	100%	0.00
KITCHEN EQUIP.	0.00	65%	0.00
SPECIAL EQ.	0.00	100%	0.00
25% OF LARGEST HVAC/MOTOR	0.00	4.00	0.00
TOTAL DEMAND	41.40		10.36 AMP

NOTES:
 1. 200 A MINIMUM BUS SIZE
 MAIN LUGS ONLY
 32 K MINIMUM AIC RATING (SERIES RATING)
 SURFACE MOUNTING NEMA 1 ENCLOSURE GROUND BAR
 2. NEW SQUARE D[®] MCOOD

1A PANEL SCHEDULES

SCALE: NO SCALE

JAMES B. DELPAPA, JR.
 CONSULTING ENGINEER
 322 ELLIOTT ROAD, SUITE 109
 WYOMING, NORTH CAROLINA 27686
 PROJECT NO. 0971

MILLER MOTTE
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Issue Date: 9/10/09
 Revisions:

E2.1

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PANEL B 120/208V, 3 PHASE, 4 WIRE

OKT	DESCRIPTION	KVA	C	G	W	CB	OKT	DESCRIPTION	OKT
1	AH-U0	2.9	E	E	E	1	2	HP-1	2
3	AH-U1	2.2	E	E	E	3	4	HP-2	4
5	AH-U2	2.2	E	E	E	5	6	HP-3	6
7	AH-U3	2.2	E	E	E	7	8	HP-4	8
9	AH-U4	2.2	E	E	E	9	10	HP-5	10
11	AH-U5	2.2	E	E	E	11	12	HP-6	12
13	AH-U6	2.7	E	E	E	13	14	HP-7	14
15	AH-U7	2.7	E	E	E	15	16	HP-8	16
17	AH-U8	2.9	E	E	E	17	18	HP-9	18
19	AH-U9	2.9	E	E	E	19	20	HP-10	20
21	AH-U10	2.2	E	E	E	21	22	HP-11	22
23	AH-U11	2.2	E	E	E	23	24	HP-12	24
25	AH-U12	2.2	E	E	E	25	26	HP-13	26
27	AH-U13	6.2	E	E	E	27	28	HP-14	28
29	AH-U14	6.2	E	E	E	29	30	HP-15	30
31	AH-U15	6.2	E	E	E	31	32	HP-16	32
33	SPARE	0.0	--	--	--	33	34	HP-17	34
35	SPARE	0.0	--	--	--	35	36	HP-18	36
37	SPARE	0.0	--	--	--	37	38	HP-19	38
39	SPARE	0.0	--	--	--	39	40	HP-20	40
41	SPARE	0.0	--	--	--	41	42	HP-21	42

DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA	NOTES
CONT. LOAD	0.60	125%	0.75	
RECEPTACLE	0.00	100%/50%	0.00	
MTRS/COOLS	20.17	100%	20.17	
HEATS	5.19	100%	5.19	
WATER HEATER	27.00	125%	33.75	
EQUIPMENT	0.00	100%	0.00	1. EXISTING PANEL BOARD
KITCHEN EQUIP.	0.00	65%	0.00	2.
SPECIAL EQ.	0.00	100%	0.00	3.
25% OF LARGEST HVAC/MOTOR	0.00	4.	0.00	4.
TOTAL DEMAND			105.66	5.

PANEL BA 120/208V, 3 PHASE, 4 WIRE

OKT	DESCRIPTION	KVA	C	G	W	CB	OKT	DESCRIPTION	OKT
1	REC	0.7	E	E	E	1	2	20	2
3	REC	0.7	E	E	E	3	4	20	4
5	REC	1.0	E	E	E	5	6	20	6
7	REC	0.2	E	E	E	7	8	20	8
9	REC	0.2	E	E	E	9	10	20	10
11	REC	0.2	E	E	E	11	12	20	12
13	REC	0.2	E	E	E	13	14	20	14
15	REC	0.2	E	E	E	15	16	20	16
17	SPARE	0.0	--	--	--	17	18	20	18
19	REC	0.5	E	E	E	19	20	20	20
21	REC	0.4	E	E	E	21	22	20	22
23	REC	0.4	E	E	E	23	24	20	24
25	REC	0.5	E	E	E	25	26	20	26
27	REC	1.0	E	E	E	27	28	20	28
29	REC	0.7	E	E	E	29	30	20	30
31	LIGHTS	1.5	E	E	E	31	32	20	32
33	LIGHTS	1.4	E	E	E	33	34	20	34
35	LIGHTS	1.4	E	E	E	35	36	20	36
37	LIGHTS	1.4	E	E	E	37	38	20	38
39	LIGHTS	1.6	E	E	E	39	40	20	40
41	LIGHTS	1.0	E	E	E	41	42	20	42
43	LIGHTS	1.3	E	E	E	43	44	20	44
45	LIGHTS	1.6	E	E	E	45	46	20	46
47	SPARE	0.0	--	--	--	47	48	20	48
49	SPARE ONLY	0.0	--	--	--	49	50	20	50
51	SPARE ONLY	0.0	--	--	--	51	52	20	52
53	SPARE ONLY	0.0	--	--	--	53	54	20	54
55	AH-U26	4.5	E	E	E	55	56	20	56
57	SPARE	0.0	--	--	--	57	58	20	58
59	SPARE	0.0	--	--	--	59	60	20	60

DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA	NOTES
CONT. LOAD	4.53	125%	5.66	
RECEPTACLE	0.00	100%/50%	0.00	
MTRS/COOLS	0.00	100%	0.00	
HEATS	13.54	100%	13.54	
WATER HEATER	0.00	125%	0.00	
EQUIPMENT	14.82	100%	14.82	1. EXISTING PANEL BOARD
KITCHEN EQUIP.	0.00	65%	0.00	2.
SPECIAL EQ.	0.00	100%	0.00	3.
25% OF LARGEST HVAC/MOTOR	0.00	4.	0.00	4.
TOTAL DEMAND			62.90	5.

PANEL BB 120/208V, 3 PHASE, 4 WIRE

OKT	DESCRIPTION	KVA	C	G	W	CB	OKT	DESCRIPTION	OKT
1	SALON STATION	1.45	E	E	E	1	2	20	2
3	SALON STATION	1.45	E	E	E	3	4	20	4
5	SALON STATION	1.45	E	E	E	5	6	20	6
7	SALON STATION	1.45	E	E	E	7	8	20	8
9	SALON STATION	1.45	E	E	E	9	10	20	10
11	SALON STATION	1.45	E	E	E	11	12	20	12
13	SALON STATION	1.45	E	E	E	13	14	20	14
15	SALON STATION	1.45	E	E	E	15	16	20	16
17	SALON STATION	1.45	E	E	E	17	18	20	18
19	SALON STATION	1.45	E	E	E	19	20	20	20
21	SALON STATION	1.45	E	E	E	21	22	20	22
23	SALON STATION	1.45	E	E	E	23	24	20	24
25	SALON STATION	1.45	E	E	E	25	26	20	26
27	SALON STATION	1.45	E	E	E	27	28	20	28
29	REC	1.48	E	E	E	29	30	20	30
31	HARD DRYER	1.45	E	E	E	31	32	20	32
33	HARD DRYER	1.45	E	E	E	33	34	20	34
35	HARD DRYER	1.45	E	E	E	35	36	20	36
37	HARD DRYER	1.45	E	E	E	37	38	20	38
39	SPARE ONLY	0.0	--	--	--	39	40	20	40
41	SPARE ONLY	0.0	--	--	--	41	42	20	42

DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA	NOTES
CONT. LOAD	0.00	125%	0.00	
RECEPTACLE	4.32	100%/50%	4.32	
MTRS/COOLS	0.00	100%	0.00	
HEATS	0.00	100%	0.00	
WATER HEATER	0.00	125%	0.00	
EQUIPMENT	52.30	100%	52.30	1. NEW SQUARE D NOOD
KITCHEN EQUIP.	0.00	65%	0.00	2.
SPECIAL EQ.	0.00	100%	0.00	3.
25% OF LARGEST HVAC/MOTOR	0.00	4.	0.00	4.
TOTAL DEMAND			63.62	5.

PANEL C 120/208V, 3 PHASE, 4 WIRE

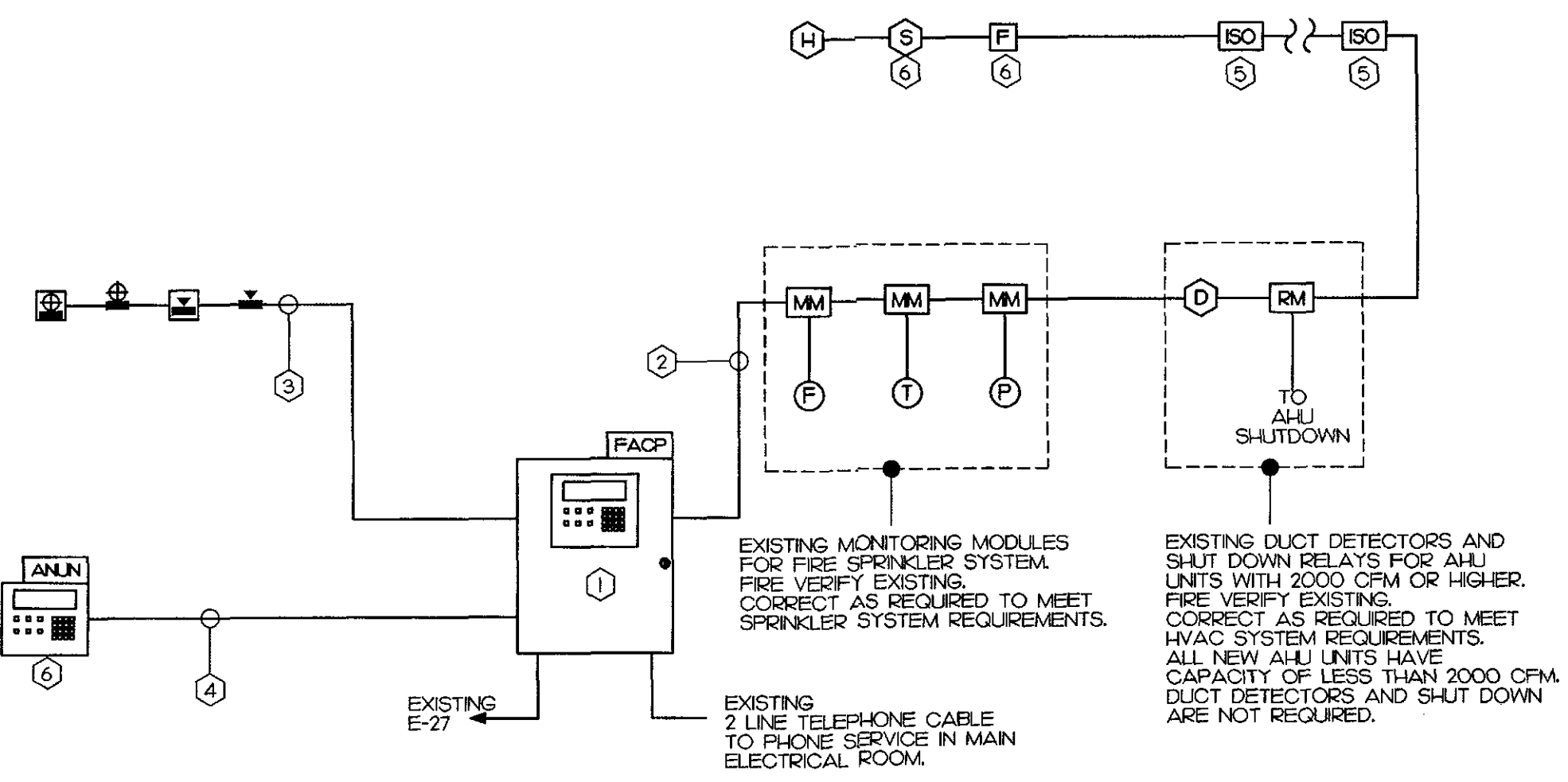
OKT	DESCRIPTION	KVA	C	G	W	CB	OKT	DESCRIPTION	OKT
1	LIGHTS	65/77	0.7	E	E	1	2	45	2
3	LIGHTS	72/74	1.2	E	E	3	4	3P	4
5	LIGHTS	7/1	1.0	E	E	5	6	E	6
7	LIGHTS	6/7	1.0	E	E	7	8	E	8
9	LIGHTS	6/6	1.0	E	E	9	10	E	10
11	REC	6/7	0.2	E	E	11	12	E	12
13	REC	6/7	0.2	E	E	13	14	E	14
15	REC	6/7	0.2	E	E	15	16	E	16
17	REC	7/3	1.0	E	E	17	18	E	18
19	REC	1/4	1.0	E	E	19	20	E	20
21	REC	1/4	0.9	E	E	21	22	E	22
23	REC	1/4	1.4	E	E	23	24	E	24
25	REC	1/4	1.4	E	E	25	26	E	26
27	REC	6/6	0.9	E	E	27	28	E	28
29	REC	6/6	0.7	E	E	29	30	E	30
31	REC	6/6	0.7	E	E	31	32	E	32
33	REC	6/6	0.9	E	E	33	34	E	34
35	LIGHTS	6/5	1.0	E	E	35	36	E	36
37	REC	6/6	0.9	E	E	37	38	E	38
39	REC	6/6	0.7	E	E	39	40	E	40
41	REC	6/6	0.4	E	E	41	42	E	42
43	REC	6/6	0.4	E	E	43	44	E	44
45	REC	6/6	0.5	E	E	45	46	E	46
47	REC	6/6	1.0	E	E	47	48	E	48
49	REC	6/7	0.2	E	E	49	50	E	50
51	REC	6/7	0.2	E	E	51	52	E	52
53	HP-22	1.9	3/4	E	E	53	54	E	54
55	HP-23	1.9	3/4	E	E	55	56	E	56
57	AH-U27	3.4	3/4	E	E	57	58	E	58
59	SPARE	3.4	--	--	--	59	60	E	60

DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA	NOTES
CONT. LOAD	9.1	125%	11.38	
RECEPTACLE	12.42	100%/50%	12.42	
MTRS/COOLS	34.58	100%	34.58	
HEATS	36.36	100%	36.36	
WATER HEATER	0.00	125%	0.00	
EQUIPMENT	4.80	100%	4.80	1. EXISTING PANEL BOARD
KITCHEN EQUIP.	0.00	65%	0.00	2.
SPECIAL EQ.	0.00	100%	0.00	3.
25% OF LARGEST HVAC/MOTOR	0.00	4.	0.00	4.
TOTAL DEMAND			102.37	5.

PANEL D 120/208V, 3 PHASE, 4 WIRE

OKT	DESCRIPTION	KVA	C	G	W	CB	OKT	DESCRIPTION	OKT
1	HP-4	3.3	E	E	E	1	2	30	2
3	HP-2	3.3	E	E	E	3	4	3P	4
5	HP-2	1.1	E	E	E	5	6	E	6
7	HP-3	1.1	E	E	E	7	8	E	8
9	HP-3	2.3	E	E	E	9	10	E	10
11	HP-3	2.3	E	E	E	11	12	E	12
13	HP-9	1.5	E	E	E	13	14	E	14
15	HP-9	1.5	E	E	E	15	16	E	16
17	HP-10	1.5	E	E	E	17	18	E	18
19	HP-10	1.5	E	E	E	19	20	E	20
21	HP-1	1.5	E	E	E	21	22	E	22
23	HP-2	1.5	E	E	E	23	24	E	24
25	HP-2	1.3	E	E	E	25	26	E	26
27	SPARE	0.0	--	--	--	27	28	E	28
29	SPARE	0.0	--	--	--	29	30	E	30
31	SPARE	0.0	--	--	--	31	32	E	32
33	SPARE	0.0	--	--	--	33	34	E	34
35	SPARE	0.0	--	--	--	35	36	E	36
37	SPARE	0.0	--	--	--	37	38	E	38
39	LIGHTS	0.5	E	E	E	39	40	E	40
41	LIGHTS	0.9	E	E	E	41	42	E	42

DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA	NOTES
CONT. LOAD	1.44	125%	1.80	
RECEPTACLE	0.00	100%/50%	0.00	
MTRS/COOLS	25.30	100%	25.30	
HEATS	60.08	100%	60.08	
WATER HEATER	0.00	125%	0.00	
EQUIPMENT	0.30	100%	0.30	1. EXISTING PANEL BOARD
KITCHEN EQUIP.	0.00	65%	0.00	2.
SPECIAL EQ.	0.00	100%	0.00	3.
25% OF LARGEST HVAC/MOTOR	0.00	4.	0.00	4.
TOTAL DEMAND			87.48	5.



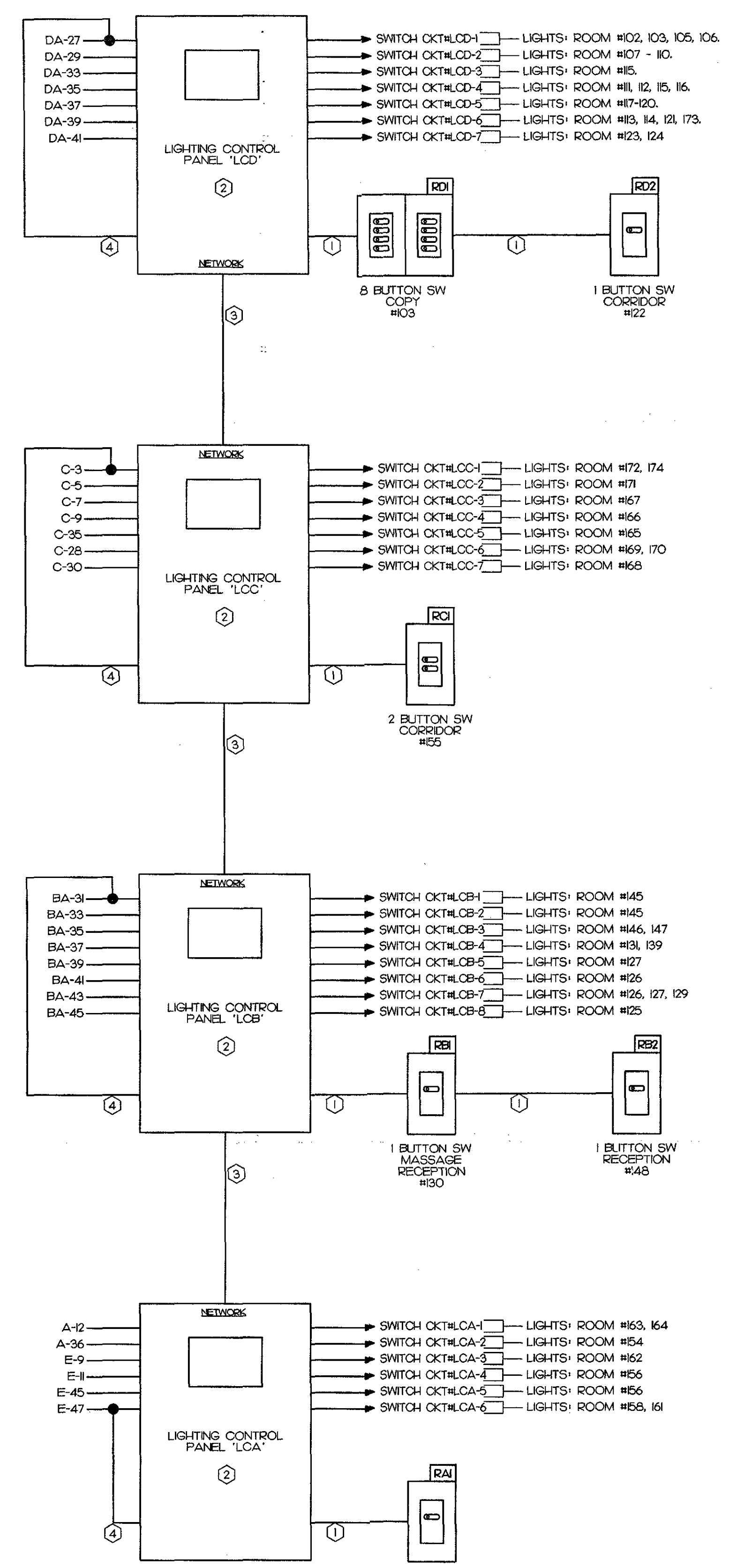
- KEY NOTES:**
- EXISTING ADDRESSABLE FACP WITH DACT. PROVIDE ADDITIONAL NAC PANEL AS REQUIRED TO MEET NOTIFICATION CIRCUIT REQUIREMENTS.
 - ADDRESSABLE CIRCUIT.
 - NOTIFICATION APPLIANCE CIRCUIT.
 - REMOTE ANNUNCIATOR CIRCUIT.
 - PROVIDE ISOLATOR MODULE AS REQUIRED.
 - FIELD VERIFY EXISTING. IF IT IS NOT EXISTING, PROVIDE NEW ONE PER THIS PLAN.

FIRE ALARM NOTES

- SEE PLANS FOR QUANTITY AND LOCATION OF ALL EQUIPMENT. THIS PLAN SHOWS ONLY ADDITIONAL EQUIPMENT TO EXISTING FIRE ALARM SYSTEM. E.C. SHALL VERIFY CAPACITY OF EXISTING SYSTEM PRIOR TO ANY MODIFICATION. ALL MODIFICATION SHALL NOT VOID EXISTING SYSTEM CURRENT WARRANTY OR SERVICE CONTRACT. REPROGRAM EXISTING PANEL AS REQUIRED BY E.C. EXISTING FACP IS WITH DIGITAL ALARM COMMUNICATOR (DACT). EXISTING DACT HAVE CAPABILITY TO HANDLE 2 PHONE LINES. FIELD COORDINATE TYPE MATCH MONITORING COMPANY.
- CONTRACTOR SHALL PROVIDE COMPLETE DOCUMENT PER 2006 FIRE CODE SECTION 907.11 TO ENGINEER FOR APPROVAL PRIOR TO SUBMIT TO AND TESTING BY STATE FIRE MARSHAL'S OFFICE.
- PLACARD THE ENTIRE FIRE ALARM SYSTEM. PROVIDE PANEL AND CIRCUIT NUMBERS ON A NAME PLATE AFFIXED TO THE FACE OF THE FIRE ALARM CONTROL PANEL.
- CONTRACTOR SHALL PROVIDE UPDATED ZONE MAPS COMPLETE WITH ADDRESSES FOR EACH FIRE ALARM DEVICE. MOUNT MAP(S) ADJACENT TO THE EXISTING FIRE ALARM CONTROL PANEL.
- ELECTRICAL CONTRACTOR SHALL PROVIDE BATTERY CALCULATIONS AND CUT SHEETS FOR FIRE ALARM SYSTEM TO ENGINEER FOR APPROVAL.
- ALL WIRING SHALL BE SUPERVISED.
- ALL WIRING SHALL BE PER MANUFACTURER'S SPECIFICATIONS.
- ADDRESSABLE ANALOG CIRCUIT SHALL BE: - WIRING SHALL BE "CLASS B" UNLESS EXISTING IS "CLASS A".
- ALL WIRING IN WALLS OR FURRED SPACES SHALL BE IN CONDUIT.
- WHERE PERMITTED BY CODE, WIRING ABOVE ACCESSIBLE CEILINGS MAY BE RUN EXPOSED AND THE FOLLOWING REQUIREMENTS SHALL BE MET: - WIRING SHALL BE FLEMUR RATED WHERE APPLICABLE - PROVIDE BRIDLE RINGS FOR INDEPENDENT FIRE ALARM CABLE SUPPORT UNLESS SPECIFICALLY NOTED OTHERWISE. ANALOG LOOP WIRING INCOMING AND OUTGOING SHALL NOT BE SUPPORTED IN THE SAME BRIDLE RING.
- ALL NOTIFICATION CIRCUIT WIRING SHALL BE "CLASS B".
- PROVIDE WITH "SYNC MODULE" AS REQUIRED PER NFPA 72.
- FURNISH NOTIFICATION CIRCUITS AS REQUIRED TO ACCOMMODATE CIRCUIT LOADING. NO NOTIFICATION CIRCUIT SHALL BE LOADED TO MORE THAN 80% CAPACITY.
- PROVIDE SOUND (69) AND CANDELA (C0) RATINGS FOR ALL HORN/STROBE DEVICES PER NFPA 72. ALL VISIBLE NOTIFICATION APPLIANCES SHALL BE SYNCHRONIZED PER NFPA 72, 7.5.4.12.
- A DECIBEL LEVEL OF (5) (6) ABOVE AMBIENT ON NFPA 72, TABLE A.7.4.2) SHALL BE MAINTAINED IN ALL GENERAL AREAS AND (10) (6) (6) ABOVE AN AMBIENT OF (5) (6) IN NFPA 72, 7.4.2) SHALL BE MAINTAINED IN ALL MECHANICAL EQUIPMENT ROOMS PER NFPA 72 AND THE SOUTH CAROLINA STATE BUILDING CODE.
- FOR ALL EXISTING HVAC UNITS: - ALL UNITS WITH 2000 CFM AND HIGHER ARE WITH DUCT MOUNTED SMOKE DETECTORS FOR INSTALLATION BY THE MECHANICAL CONTRACTOR WITHIN THE DUCT. - ANY ALARM SHALL SHUT DOWN ALL AIR HANDLING UNITS WITH 2000 CFM AND HIGHER. - SHUT DOWN SHALL BE ACHIEVED VIA FACP CONTROLLED RELAY (WITHIN FACP OR ADDRESSABLE RELAY). SHUT DOWN VIA THE DUCT SMOKE DETECTOR CONTROLLED RELAY IS NOT ACCEPTABLE. - ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING AND RELAYS AS REQUIRED FOR AIR HANDLING SHUTDOWN. FIELD COORDINATE AIR HANDLING UNIT SHUTDOWN WITH MECHANICAL CONTROL SYSTEM. FINAL CONNECTIONS OF WIRING FOR HVAC SYSTEM SHALL BE BY THE ELECTRICAL CONTRACTOR.
- CONTRACTOR SHALL PROVIDE A SMOKE MACHINE TO TEST THE DUCT DETECTION PORTION OF THE FIRE ALARM SYSTEM. SMOKE BOMBS AND/OR MAGNETS FOR TESTING OF THE DUCT DETECTION SYSTEM IS PROHIBITED.
- FIELD COORDINATE QUANTITY AND LOCATION OF FLOW AND TAMPER SWITCHES WITH SPRINKLER'S FINAL DRAWINGS AND/OR CIVIL FINAL DRAWING FOR TAMPER SWITCH FOR FIV VALVE.
- PROVIDE MONITORING MODULES AS REQUIRED FOR SPRINKLER SYSTEM.

1A FIRE ALARM RISER AND NOTES

SCALE: NOT TO SCALE



- KEY NOTES:**
- LOW VOLTAGE WIRING, TYPE PER MANUFACTURER.
 - SWITCHED CONTROL PANEL WITH FEED THRU TYPE (NO BREAKER), INTEGRATED ASTRONOMICAL TIME CLOCK. ALL CIRCUITS WITH CONTROL CONTACTORS OR SOFT SWITCH RELAYS. EACH CIRCUIT SHALL HAVE CAPABILITY TO SWITCH 120V OR 277V 20A CIRCUIT. CAPABLE OF CONNECT UP TO 32 REMOTE STATION VIA LOW VOLTAGE CABLE. TOTAL OF 8+ CONTROL CONTACTORS WITH NETWORK CAPABILITY TO CONNECT BETWEEN SWITCHED PANEL.
 - NETWORK WIRING.
 - POWER CIRCUIT FOR PANEL OPERATION.

- NOTES:**
- ON-SITE START-UP OF SYSTEM SHALL BE BY FACTORY CERTIFIED TECHNICIAN.
 - THE ABOVE DIAGRAM IS BASED ON HUBBELL LX-SERIES LIGHTING CONTROL PANEL. EQUIVALENT PRODUCT BY WATTS/STOFFER AND LUTRON ARE ACCEPTABLE.
 - THE ABOVE DIAGRAM IS ONLY FOR GUIDE LINE. ACTUAL WIRING AND INSTALLATION SHALL BE PER PANEL MANUFACTURER INSTRUCTION.
 - E.C. SHALL INCLUDE: - MIN. OF 2 HOUR OF TRAINING OF USING/PROGRAMMING THE SYSTEM. - REPROGRAM SYSTEM AS SPECIFIED ABOVE. - OPTION PRICE FOR ON-SITE SERVICE CONTRACT WITH 48 HOUR RESPONSE TIME.

LEGEND

- RA1** 1 BUTTON: FLUSH MOUNTED REMOTE STATION FOR LIGHTING CONTROL. PROVIDE WITH ENGRAVED COVER PLATE TO INDICATED COVERAGE AREA. E.C. SHALL PROGRAM SWITCH SUCH THAT: DURING OFF-HOUR EACH BUTTON SHALL TURN OFF THE FOLLOWING CIRCUITS AND THE CIRCUITS SHALL BE OFF AUTOMATICALLY AFTER 2 HOUR. BUTTON #1: OKT# LCA-1, 2, 3, 4, 5, 6.
- RA2** 1 BUTTON: FLUSH MOUNTED REMOTE STATION FOR LIGHTING CONTROL. PROVIDE WITH ENGRAVED COVER PLATE TO INDICATED COVERAGE AREA. E.C. SHALL PROGRAM SWITCH SUCH THAT: DURING OFF-HOUR EACH BUTTON SHALL TURN OFF THE FOLLOWING CIRCUITS AND THE CIRCUITS SHALL BE OFF AUTOMATICALLY AFTER 2 HOUR. BUTTON #1: OKT# LCB-4, 5, 6, 7, 8.
- RA3** 1 BUTTON: FLUSH MOUNTED REMOTE STATION FOR LIGHTING CONTROL. PROVIDE WITH ENGRAVED COVER PLATE TO INDICATED COVERAGE AREA. E.C. SHALL PROGRAM SWITCH SUCH THAT: DURING OFF-HOUR EACH BUTTON SHALL TURN OFF THE FOLLOWING CIRCUITS AND THE CIRCUITS SHALL BE OFF AUTOMATICALLY AFTER 2 HOUR. BUTTON #1: OKT# LCC-4, 5, 6, 7.
- RA4** 2 BUTTON: FLUSH MOUNTED REMOTE STATION FOR LIGHTING CONTROL. PROVIDE WITH ENGRAVED COVER PLATE TO INDICATED COVERAGE AREA. E.C. SHALL PROGRAM SWITCH SUCH THAT: DURING OFF-HOUR EACH BUTTON SHALL TURN OFF THE FOLLOWING CIRCUITS AND THE CIRCUITS SHALL BE OFF AUTOMATICALLY AFTER 2 HOUR. BUTTON #1: OKT# LCC-1, 2, 3, 4, 5. BUTTON #2: OKT# LCC-5, 6, 7.
- RA5** 8 BUTTON: FLUSH MOUNTED REMOTE STATION FOR LIGHTING CONTROL. PROVIDE WITH ENGRAVED COVER PLATE TO INDICATED COVERAGE AREA. E.C. SHALL PROGRAM SWITCH SUCH THAT: DURING OFF-HOUR EACH BUTTON SHALL TURN OFF THE FOLLOWING CIRCUITS AND THE CIRCUITS SHALL BE OFF AUTOMATICALLY AFTER 2 HOUR. BUTTON #1: OKT# LCD-1, 2, 3, 4. BUTTON #2: OKT# LCD-5, 6, 7. BUTTON #3: OKT# LCD-1, 2, 3, 4, 5. BUTTON #4: OKT# LCD-5, 7. BUTTON #5: OKT# LCB-1, 2, 3. BUTTON #6: OKT# LCB-4, 5, 6, 7, 8. BUTTON #7: OKT# LCA-1, 2, 3, 4, 5, 6. BUTTON #8: SPARE.
- RA6** 1 BUTTON: FLUSH MOUNTED REMOTE STATION FOR LIGHTING CONTROL. PROVIDE WITH ENGRAVED COVER PLATE TO INDICATED COVERAGE AREA. E.C. SHALL PROGRAM SWITCH SUCH THAT: DURING OFF-HOUR EACH BUTTON SHALL TURN OFF THE FOLLOWING CIRCUITS AND THE CIRCUITS SHALL BE OFF AUTOMATICALLY AFTER 2 HOUR. BUTTON #1: OKT# LCD-5, 6, 7.

9A LIGHTING CONTROL PANEL DIAGRAM (LCA, LCB, LCC, LCD)

SCALE: NOT TO SCALE

SOUTH CAROLINA PROFESSIONAL ENGINEERS AND ARCHITECTS
23336
10-5-09

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DUNN & DALTON
ARCHITECTS

Issue Date: 9/10/09
Revisions:

E2.3

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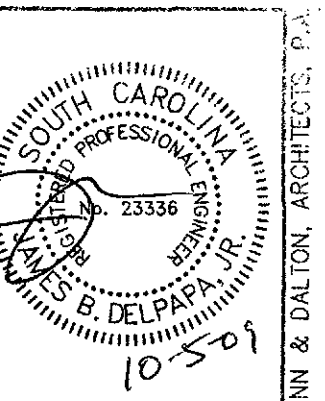
LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	CATALOG	ELECTRICAL DATA	NOTES
A	2X4 PARABOLIC AVAILABLE FROM DEMOLITION.	EXISTING	(4) 32W T8 1 - ELECTRONIC BALLAST 128 WATTS - 130 VA, 120V	IF THE EXISTING ONES ARE NOT ENOUGH, PROVIDE NEW ONE TO MATCH EXISTING. CLEAN, RELAMP AS REQUIRED.
AE	2X4 PARABOLIC TO REMAIN.	EXISTING	(4) 32W T8 1 - ELECTRONIC BALLAST 128 WATTS - 130 VA, 120V	CLEAN, RELAMP AS REQUIRED.
B	2X4 LENS TROFFER AVAILABLE FROM DEMOLITION.	EXISTING	(4) 32W T8 1 - ELECTRONIC BALLAST 128 WATTS - 130 VA, 120V	CLEAN, RELAMP AS REQUIRED.
B2	NEW: 2X4 LENS TROFFER 2 LAMPS	DAYRITE- 2TGB-232-12-UNV-1/2EB	(2) 32W T8 1 - ELECTRONIC BALLAST 64 WATTS - 65 VA, 120V	
B4	NEW: 2X4 LENS TROFFER 4 LAMPS	DAYRITE- 2TGB-232-12-UNV-2/2EB	(4) 32W T8 2 - ELECTRONIC BALLASTS 128 WATTS - 130 VA, 120V	SUITABLE FOR INBOARD/OUTBOARD CONTROL.
C	8 FT. FL STRIP LIGHT AVAILABLE FROM DEMOLITION.	EXISTING	(4) 32W T8 1 - ELECTRONIC BALLAST 128 WATTS - 130 VA, 120V	CLEAN, RELAMP AS REQUIRED.
D	6" RECESSED CAN AVAILABLE FROM DEMOLITION.	EXISTING	20W COMPACT FL 60 WATTS - 120V	CLEAN, RELAMP AS REQUIRED.
F	NEW: DECORATIVE PENDANT	TO BE SELECTED BY OWNER	100W MAX. 100 WATTS - 120V	
G	NEW: DECORATIVE PENDANT TO MATCH LIGHTING TRACK.	HALO; TO BE SELECTED BY OWNER	100W MAX. 100 WATTS - 120V	MOUNT TO LIGHTING TRACK.
P	NEW: EXTERIOR WALL MOUNTED SUITABLE FOR WET LOCATION	NITEBRITE- WCM-26C-D-UHP	(2) 26W CFL 1 - ELECTRONIC BALLAST 52 WATTS - 55 VA, 120V	
EG	NEW: EMERGENCY LIGHT SURFACE/WALL MOUNT	MCPHILBEN- VUS	(2) 5.4W KRYPTON N/A 5 VA - 120/277V	
EGX1	NEW: EMERGENCY WITH EXIT LIGHT SURFACE/WALL MOUNT	MCPHILBEN- VCRWLR	(2) 5.4W KRYPTON LED N/A 5 VA - 120/277V	
EGX2	NEW: EMERGENCY WITH EXIT LIGHT SURFACE/WALL MOUNT WITH POWER FOR REMOTE HEADS	MCPHILBEN- VCRB	(2) 5.4W KRYPTON LED N/A 5 VA - 120/277V	WITH 12 W POWER FOR REMOTE HEADS
BH	NEW: EXTERIOR EMERGENCY LAMP HEADS SUITABLE FOR WET LOCATION	MCPHILBEN- 2 - MCM LAMP HEADS MP2WM MOUNTING PLATES	(2) 6W HALOGEN N/A 12 W - 6VDC	CONNECT TO EGX2.
EGW	NEW: EXTERIOR EMERGENCY LIGHT SUITABLE FOR WET LOCATION AND 20F.	MCPHILBEN- PDNW-PDHTR	(2) 6W HALOGEN N/A 5 VA - 120/277V	

1A

FIXTURE SCHEDULE

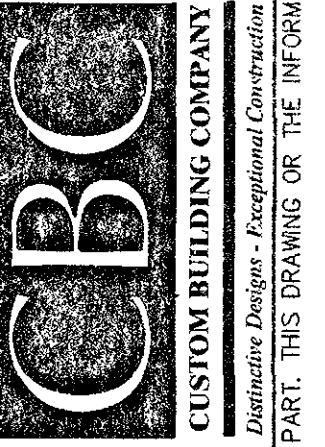
SCALE: NO SCALE



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DUNN & DALTON
ARCHITECTS

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SYMBOL LEGEND

SYMBOL	DESCRIPTION	REMARKS
	2 X4 FLUORESCENT LAY-IN FIXTURE - LETTER DESIGNATES TYPE SEE NOTE ON PLAN FOR EXISTING TO REMAIN	SEE FIXTURE SCHED.
	FLUORESCENT STRIP FIXTURE - LETTER DESIGNATES TYPE SEE NOTE ON PLAN FOR EXISTING TO REMAIN	SEE FIXTURE SCHED.
	RECESSED CAN LIGHT FIXTURE - LETTER DESIGNATES TYPE SEE NOTE ON PLAN FOR EXISTING TO REMAIN	SEE FIXTURE SCHED.
	PENDANT/SURFACE MOUNT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	PENDANT LIGHT MOUNTED TO LIGHTING TRACK, LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	EMERGENCY WITH EXIT LIGHT - CONNECT UNSWITCHED	SEE FIXTURE SCHED.
	BATTERY BACKUP EMERGENCY LIGHT - CONNECT UNSWITCHED	SEE FIXTURE SCHED.
	EMERGENCY LIGHT HEADS	SEE FIXTURE SCHED.
	EXIT LIGHT - CONNECT UNSWITCHED	SEE FIXTURE SCHED.
	FLUORESCENT LIGHT FIXTURE ON UNSWITCHED CIRCUIT FOR NIGHT LIGHT, THE SHADE DESIGNATED THE NIGHT LIGHT.	SEE FIXTURE SCHED.
	SINGLE POLE TOGGLE SWITCH MOUNT 42" AFF. UNLESS NOTED OTHERWISE.	HUBBELL CS221** WITH NPJ COVER PLATE
	THREE WAY TOGGLE SWITCH MOUNT 42" AFF. UNLESS NOTED OTHERWISE.	HUBBELL CS223** WITH NPJ COVER PLATE
	DOUBLE SWITCHING, MOUNT BOTH SWITCHES IN A DOUBLE GANG BOX 42" AFF. UNLESS OTHERWISE NOTED - ONE SWITCH SHALL CONTROL THE OTHER LAMPS OF ALL FIXTURES (CONNECT ALL FIXTURES WHICH CANNOT BE DOUBLE SWITCHED TO THIS SWITCH) AND THE OTHER SWITCH SHALL CONTROL THE OTHER LAMPS OF ALL FIXTURES	SEE ABOVE
	DOUBLE POLE TOGGLE SWITCH MOUNT 42" AFF. UNLESS NOTED OTHERWISE.	HUBBELL CS222** WITH NPJ COVER PLATE
	SPECIFICATION GRADE DUPLEX RECEPTACLE MOUNT 16" AFF. UNLESS OTHERWISE NOTED.	HUBBELL C25362** WITH NPJ COVER PLATE
	SPECIFICATION GRADE DUPLEX RECEPTACLE AT CEILING PANEL	HUBBELL C25362** WITH NPJ COVER PLATE
	SPECIFICATION GRADE GROUND FAULT INTERRUPTING DUPLEX RECEPTACLE - MOUNT 16" AFF. UNLESS OTHERWISE NOTED.	HUBBELL GF20** WITH NPJ COVER PLATE
	SPECIFICATION GRADE DUPLEX RECEPTACLE MOUNT 16" AFF. UNLESS OTHERWISE NOTED.	HUBBELL C25362** WITH NPJ COVER PLATE
	SPECIFICATION GRADE WEATHER RESISTANT/GROUND FAULT INTERRUPTING DUPLEX RECEPTACLE WITH INHUSE WEATHER PROOF COVER, MOUNT 16" AFF. UNLESS OTHERWISE NOTED.	HUBBELL GFTR20** WITH WP2AM COVER PLATE
	SPECIFICATION GRADE DUPLEX RECEPTACLE MOUNT 4" ABOVE COUNTER/BACKSPLASH	HUBBELL C25362*** WITH NPJ COVER PLATE
	SPECIFICATION GRADE GROUND FAULT INTERRUPTING DUPLEX RECEPTACLE - MOUNT 4" ABOVE COUNTER/BACKSPLASH	HUBBELL GF20*** WITH NPJ COVER PLATE
	SPECIFICATION GRADE DUPLEX RECEPTACLE MOUNT 4" ABOVE COUNTER/BACKSPLASH	HUBBELL C25362*** WITH NPJ COVER PLATE
	250 VOLT RECEPTACLE WITH GROUND, "AMP" DESIGNATED RATING FIELD VERIFY NUMBER OF POLE AND NEUTRAL MOUNT 16" AFF. UNLESS OTHERWISE NOTED.	HUBBELL TO MATCH EQUIPMENT
	FLOOR RECEPTACLE WITH SPECIFICATION GRADE QUAD RECEPTACLE AND COMMUNICATION OUTLET, COMMUNICATION JACK AND WIRING BY OTHERS, FIELD COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN, FIELD COORDINATE COVER PLATE TO MATCH FLOOR.	HUBBELL S5P4X4 WITH S5FB BOX S5FCAL COVER
	ALUMINUM POWER POLE WITH TWO CHANNELS, CONNECT RECEPTACLES AT FURNITURE AS REQUIRED, PROVIDE ACCESSORIES FOR MOUNTING AND POWER FEED AS REQUIRED.	HUBBELL
	CEILING PANEL CABINET FAN, FURNISHED AND INSTALLED BY M.C. WIRED BY E.C.	SEE MECH. PLAN
	JUNCTION BOX SIZED PER NEC.	
	DISCONNECT SWITCH SEE PLANS FOR SIZE AND TYPE	SQUARE D HEAVY DUTY
	NEW CONCEALED WIRING	PER NEC.
	UNSWITCHED LIGHTING CONDUCTOR	PER NEC.
	HOME RUN TO PANEL BOARD, NUMBERS OF ARROW INDICATE CIRCUITS	PER NEC.
	120/208V 30, 4W PANEL BOARD - SEE PANEL SCHEDULES	EXISTING/NEW
	120/208V 30, 4W SWITCH BOARD - SEE PANEL SCHEDULES	EXISTING
	A.F.C. ABOVE FINISHED CEILING	
	A.F.F. ABOVE FINISHED FLOOR - NOTE ALL MOUNTING DIMENSIONS GIVEN ARE TO THE BOTTOM OF THE OUTLET BOX	

NOTE:
1. E.C. SHALL SUBMIT CATALOG SHEETS FOR COLOR APPROVAL OF ALL SWITCH RECEPTACLE AND WALL PLATE TO ARCHITECT PRIOR PURCHASING ANY.

SYMBOL LEGEND

SYMBOL	DESCRIPTION	REMARKS
	SMOKE DETECTOR, PHOTOELECTRIC INTELLIGENT, ADDRESSABLE	EXISTING
	HEAT DETECTOR, RATE OF RISE WITH FIXED TEMP. INTELLIGENT, ADDRESSABLE	TO MATCH EXISTING
	DUCT SMOKE DETECTOR, PHOTOELECTRIC WITH SAMPLING TUBE INTELLIGENT, ADDRESSABLE	EXISTING
	FIRE ALARM PULLSTATION MOUNT 42" AFF. ADDRESSABLE	TO MATCH EXISTING
	FIRE ALARM STROBEHORN MOUNT 80" AFF. 75 dBA SOUND LEVEL, "XX" INDICATES CANDELA RATING	TO MATCH EXISTING
	FIRE ALARM CEILING STROBEHORN 75 dBA SOUND LEVEL, "XX" INDICATES CANDELA RATING	TO MATCH EXISTING
	FIRE ALARM STROBE MOUNT 80" AFF. "XX" INDICATES CANDELA RATING	TO MATCH EXISTING
	FIRE ALARM CEILING STROBE "XX" INDICATES CANDELA RATING	TO MATCH EXISTING
	EXISTING FIRE ALARM CONTROL PANEL, SURFACE MOUNTED, ADDRESSABLE	EXISTING
	FIRE ALARM REMOTE ANNUNCIATOR, FLUSH MOUNTED, ADDRESSABLE	TO MATCH EXISTING
	RELAY CONTROL MODULE ADDRESSABLE	EXISTING
	MONITOR MODULE ADDRESSABLE	EXISTING
	FIRE SPRINKLER FLOW SWITCH	EXISTING
	FIRE SPRINKLER TAMPER SWITCH	EXISTING
	PRESSURE SWITCH FOR FIRE SPRINKLER SYSTEM	EXISTING
	COMMUNICATION OUTLET - MOUNT 16" AFF. UNLESS OTHERWISE NOTED STUB T CONDUIT TO ACCESSIBLE CEILING SPACE, OUTLET, COVER PLATE AND WIRING BY OTHERS.	SINGLE GANG BOX HUBBELL NPJ3 COVER PLATE

GENERAL NOTES

- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS, DO NOT SCALE THESE DRAWINGS.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT PRIOR TO THE INSTALLATION OF HIS EQUIPMENT SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE.
- USE OF THE CONDUIT SYSTEM FOR EQUIPMENT GROUNDING SHALL NOT BE ACCEPTABLE, A SEPARATE GREEN GROUND WIRE SHALL BE RUN WITH THE CIRCUIT CONDUCTORS IN EACH CONDUIT.
- ALL BREAKER SIZES, SHOWN FOR MECHANICAL EQUIPMENT, SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT, WITH THE EQUIPMENT SUPPLIER AND THE MECHANICAL CONTRACTOR.
- ALL WORK AND MATERIAL SHALL BE PROVIDED IN ACCORDANCE WITH THE STATE, LOCAL AND NATIONAL CODES AND ORDINANCES.
- EACH CONTRACTOR SHALL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT, PRIOR TO INSTALLATION FOR USE WITH THE ACTUAL EQUIPMENT, CASEWORK, AND MILLWORK TO BE FURNISHED.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS.
- PENETRATION:
 - WHERE ELECTRICAL EQUIPMENT PENETRATES RATED WALLS AND CEILINGS, EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED PER APPROVED UL METHODS.
 - WHERE ELECTRICAL EQUIPMENT PENETRATES EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ENGINEER, SUBMIT DETAIL OF PROPOSED SEALING METHODS.
- ALL PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID BY THE ELECTRICAL CONTRACTOR.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE COMPLETE UPDATED TYPEWRITTEN PANEL SCHEDULES FOR ALL PANELBOARDS.
- AS BUILT DRAWINGS SHALL BE GIVEN TO THE OWNER AT THE COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL VERIFY THE CEILING TYPES WITH THE GENERAL CONTRACTOR PRIOR TO THE PURCHASE OF ANY LIGHT FIXTURES SO THAT THE PROPER TRIM WILL BE PROVIDED FOR ALL FIXTURES, ANY DIFFERENCES WILL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- ALL WIRE SIZES INDICATED ON THE PANEL SCHEDULES ARE BASED ON 75 DEGREE COPPER UNLESS OTHERWISE NOTED ON THIS PLAN.
 - THIRTYTHREE (33) ALL WIRE TERMINALS AND EQUIPMENT SHALL BE LISTED AND APPROVED FOR 75C, ONLY THIN WIRE SHALL BE INSTALLED IN WET AND EXTERIOR LOCATION.
- MINIMUM CONDUIT SIZE SHALL BE 1/2" AND MINIMUM WIRE SIZE SHALL BE #12 AWG.
- METAL-CLAD CABLE (TYPE MC) AND ARMORED CABLE (TYPE AC) IS AN ACCEPTABLE WIRING METHOD SUBJECT TO RESTRICTIONS OF THE NEC. TYPES "MC" OR "AC" CABLE SHALL NOT BE USED WHEN PENETRATING RATED WALLS.
 - SEE MEDICAL FOR RESTRICTION PER NEC 517.33.
- THE MAXIMUM NUMBER OF HOMERUNS IN A CONDUIT SHALL NOT EXCEED THREE (3). BREAKER FEEDING CIRCUITS WITH SHARING NEUTRAL SHALL BE SWITCHED TOGETHER.
- WHERE OUTLETS ARE SHOWN BACK TO BACK ON RATED WALLS, STAGGER OUTLETS SO THAT THEY ARE SEPARATED BY A MINIMUM OF 24".
- ALL DISCONNECTS SHALL HAVE SEPARATE NEUTRAL AND GROUND BARS.
- ALL PANELS SHALL BE THREE PHASE, FOUR WIRE UNLESS OTHERWISE NOTED.
- BOXES AND CONDUITS SHALL NOT BE INSTALLED RECESSED IN A 4-HOUR RATED WALL. WHEN OUTLETS ARE INDICATED ON THESE WALLS, FIELD COORDINATE CONDUIT AND BOX INSTALLATION.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE ELECTRICAL DEMOLITION NOTED OR IMPLIED ON THESE PLANS.
- ALL ABANDONED AND UNUSED CABLES IN HOLLOW SPACES, VERTICAL SHAFTS, AND VENTILATION OR AIR-HANDLING DUCTS SHALL BE REMOVED PER NEC 725.3(B), 760.3(A), 770.3(A), 800.52(B), 820.52(B) AND 830.52(B).
- PRIOR TO CONNECTING ANY NEW RECEPTACLES TO EXISTING CIRCUITS, THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THAT NO MORE THAN 10 RECEPTACLES ARE CONNECTED TO A 20 AMP CIRCUIT. AFTER RECONNECTING ALL NEW AND RELOCATED LIGHT FIXTURES THE ELECTRICAL CONTRACTOR SHALL MEASURE THE CONNECTED LOAD FOR EACH LIGHTING CIRCUIT TO INSURE THAT NO MORE THAN 16 AMPS IS CONNECTED TO A 20 AMP CIRCUIT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF EITHER OF THE ABOVE CONDITIONS CAN NOT BE ACHIEVED.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING CIRCUIT CONTINUITY TO ALL LIGHTING, DEVICES AND EQUIPMENT NOT SUBJECT TO REMOVAL. PROVIDE ADDITIONAL CONDUIT AND WIRING AS REQUIRED.
- RELOCATE AS NECESSARY ALL EXISTING CIRCUITS FOUND PASSING THROUGH THE AREA OF CONSTRUCTION AND WHICH ARE PRESENTLY IN USE IN OTHER PARTS OF THE BUILDING UNAFFECTED BY THIS PROJECT PHASE. TO MAINTAIN THE CONTINUITY OF SERVICE AND GROUNDING, AND TO CONCEAL THEM ABOVE NEW CEILINGS.
- WHERE EXISTING EQUIPMENT AND DEVICES SHALL BE REMOVED, THE CONTRACTOR SHALL REMOVE ALL THE ASSOCIATED CONDUIT AND CONDUCTORS THAT SHALL NOT REMAIN IN OPERATION BACK TO THEIR RESPECTIVE SOURCE OR TO THE POINT ON A SHARED CIRCUIT FROM WHERE THE EQUIPMENT OR DEVICE IS SERVED.

MEDICAL FACILITY NOTES:

- FACILITY DESIGN IS FOR A DOCTOR OFFICE, GENERAL PRACTITIONER. DESIGN IS NOT FOR A HOSPITAL, NURSING HOME OR AMBULATORY CARE FACILITY. NO SPECIAL POWER SYSTEMS HAVE BEEN DESIGNED FOR PATIENT LIFE SAFETY.
- PER NEC 517.33, THERE IS NOT A REQUIREMENT FOR A CRITICAL POWER BRANCH IN THIS FACILITY.
- WIRING IN ALL EXAM ROOMS AND PATIENT CARE AREAS SHALL COMPLY WITH NEC 517.3, ROOMS ARE AS FOLLOWS:
 - MEDICAL ASSISTING ROOM #127
- NO INVASIVE PROCEDURES OR PROCEDURES THAT IF INTERRUPTED SHOULD THREATEN A PATIENTS LIFE ARE PERFORMED.
- THERE ARE NO OVERNIGHT STAYS IN ANY BEDROOMS THIS FACILITY.
- INHALATION ANESTHESIAS ARE NOT ADMINSTRATED.

SOUTH CAROLINA ENERGY CODE

ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE: PRESCRIPTIVE

LIGHTING SCHEDULE:

FLUORESCENT TB	CF	MH	INCAN
4 / 2	1	N/A	1
ELECTRONIC	ELECTRONIC	N/A	N/A
2 / 1	1	N/A	N/A
08 / 64	52	N/A	100 / 60

LAMP TYPE REQUIRED:
NUMBER OF LAMPS:
BALLAST TYPE USED:
NUMBER OF BALLASTS:
TOTAL WATTAGE PER FIXTURE:

	SPECIFIED	ALLOWED BY CODE
INTERIOR WATTAGE		
SCHOOL/UNIVERSITY	12	12
EXTERIOR WATTAGE		
EXIT DOOR	20W/FT.	20W/FT.
EXISTING CANOPY	EXISTING	N/A

ALL EXTERIOR LIGHTS:

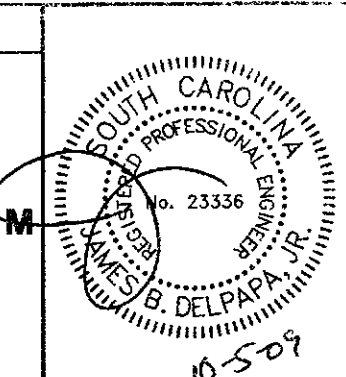
- CONTROLLED BY PHOTOCELL THAT WILL NOT INTENDED TO BE ON FOR 24 HOUR OPERATION.
- ALL EXTERIOR LIGHT FIXTURES HAVE A SOURCE EFFICACY OF AT LEAST 45 LUMEN PER WATT.

DESIGNER STATEMENT:

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE SOUTH CAROLINA STATE BUILDING CODE.

SIGNED:

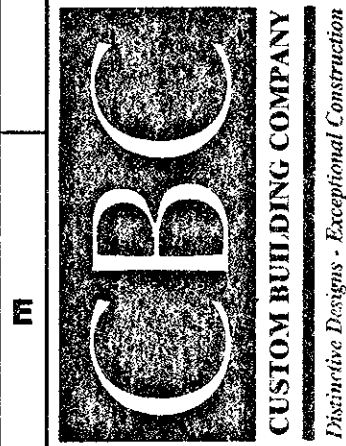
NAME: JAMES B. DELPAPA, JR., P.E.
TITLE: ENGINEER



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DUNN & DALTON
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