CONSTRUCTION NOTES

1. All building construction to meet latest edition of City, State and National standard building codes, also N.F.P.A. codes required for this type structure. Classification of occupancy is per N.F.P.A. 101 Life Safety Code.

2. All unpaved areas within the Limits of Construction shall be graded to carry surface water away from new and existing construction. Where excavation is required for drainage it shall be to a depth of 4". below finish grades and filled with top soil to finished grades. See site plan for paving, parking, and drainage.

3. See plan(s) for fire rated construction location and rating. No exposed combustible construction shall be allowed. All openings around pipes, ducts, conduits, doors or windows required through fire-rated construction shall be firestopped with approved non-conbustible materials. Such material shall be fire-resistant for the time period of that construction. (See Standard Building Code). All construction shall have smoke developed = 0 - 450. Flame spread rating 0 - 75.

4. Portable fire extinguishers shall be mounted and installed per N.F.P.A. 10 (1981). Typed as required by materials and classification of area.

5. Suspended ceiling system shall be fire-rated acoustical board in steel grid frame and U.L. rated one hour Class B. (2'x 4' nominal panels).

6. A.N.S.I. Compliance: Items shown or required. (A.N.S.I. 117.1-1980)
   a). An accessible route from a public way to (parking space) into the building to the toilet area.

   b). Parking (8' x 20') ,aisle (5' x 20') and ramp (see site plan).

   c). The symbol of accessibility shall be displayed at reserved parking space and at toilet, both at required heights for visibility.

   d). Threshold at principal entrances and differences in elevation along accessible route (from parking, up ramp, through entrance and to restrooms) shall not exceed 1/2" and shall be beveled with a sloped no greater than 1:2. Cross slope along the accessible route shall not exceed 1:50.

   e). Handicapped toilet area is designed for accessibility per minimum manuvering clearances. Side and rear grab bars located at handicap water closet with 42" long side bar 12" from rear corner and 24" long rear bar 6" from cornerthat water closet is centered 18" from. Bars and paper dispenser shall be securely screwed to wall. Other toilet accessories furnished by owner.

   f). Hot water and drain pipe under wall hung lavatory shall be insulated or otherwise covered. There shall be no sharp or abrasive surfaces under lavatory. Lavatory shall have lever operated push type and/or self-closing type faucets.

   g).

7. Glazing in doors and panels within 4'-0" of and 4'-0" below door head height shall be safety glass and so labeled.

Plumbing / HVAC

1). Plumbing work shall be installed in compliance with local, state and national codes.

2). HVAC system shall be installed in accordance with N.F.P.A. 90 A and N.F.P.A. 101 (1988)

3). Each air handling unit over 600 cfm shall have a manual reset firestat installed in the return air plenum to stop the fan when air temperature reaches 125 degrees F. Also install a smoke detector to stop the fan in duct system for units over 2000 cfm.

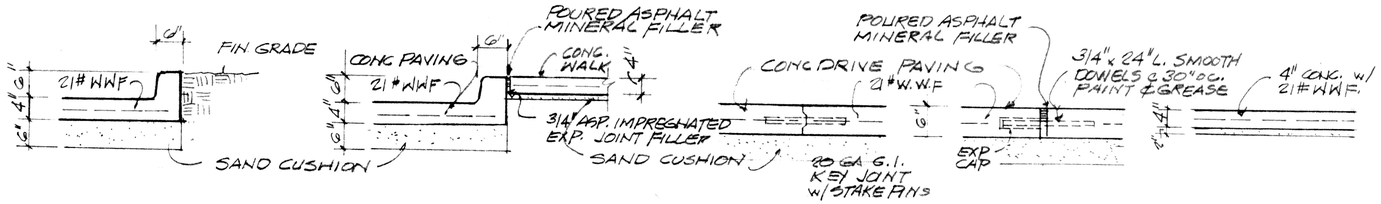
4). All exhaust shall be vented through roof to outside air unless shown otherwise. Contractor shall verify duct layout and size equipment , ducts and registers.

Electrical

1). All electrical work shall comply with local, state and national codes. installation shall comply with N.E.C. (1984) N.F.P.A. 70 and N.F.P.A. 101 (1988).

2). Electrical contractor shall coordinate service location with serving utility

3). Contractor shall verify all electric loads,panel and feeder sizes and adjust electrical equipment and devices accordingly.

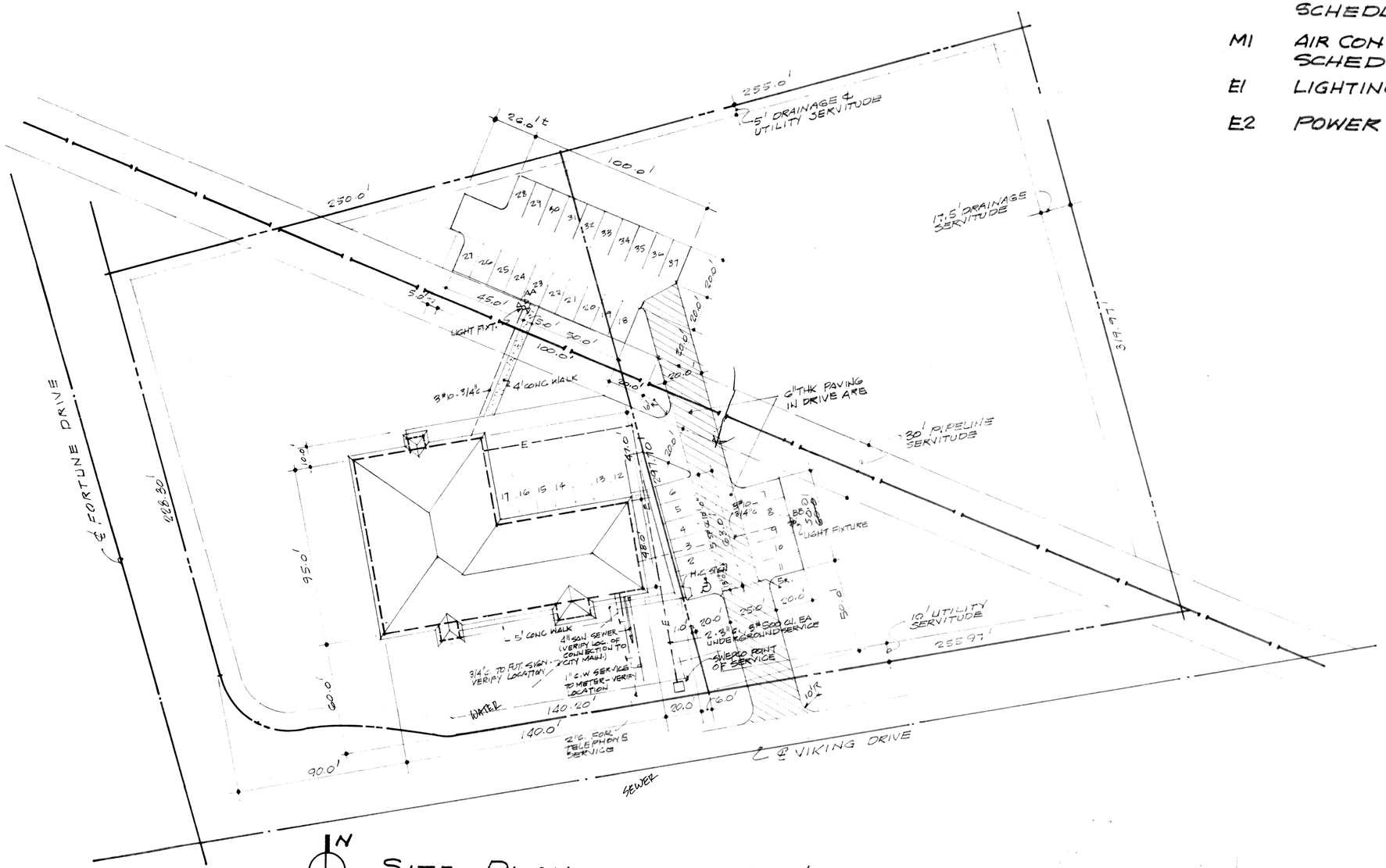


1 TYP. CURB DETAIL 2 TYP. CURB & WALK 3 TYP. CONST JOINT 4 TYP. EXP. JOINT 5 SIDEWALK

PAVING AND SIDEWALK DETAILS

3/4" = 1'-0"

NOTE: SEE SHEET 2 FOR PLAN REFERENCE



SITE PLAN

1" = 30'

INDEX TO DRAWINGS

REVISIONS

M. DANIEL ENGINEERING
1527 WAFER ROAD
WEIGHTON LOUISIANA 71675
9-1538

NEW FACILITY FOR

MID-SOUTH ANALYTICAL LAB

VIKING DRIVE BOSSIER CITY, LA.

1 FEB 0

ale AS NO

Drawn

Job

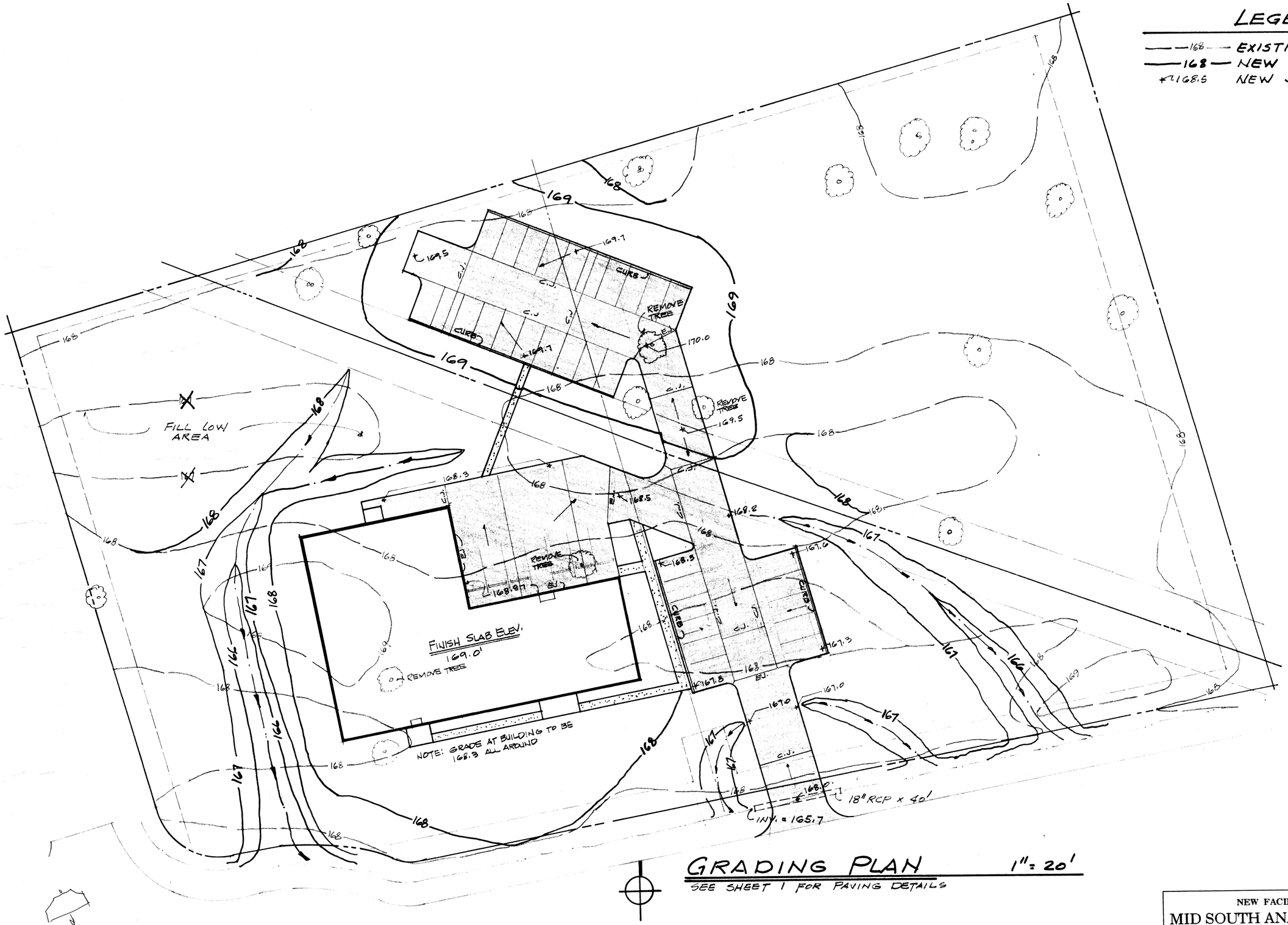
Sheet

Tommy's Copy

24 X 36 PRINTED ON NO. 1000H CLEARPRINT

LEGEND

- 168 — EXISTING CONTOURS
- 168 — NEW CONTOURS
- ×168.5 NEW SPOT ELEVATION



GRADING PLAN

1" = 20'

SEE SHEET 1 FOR PAVING DETAILS

STATE OF LOUISIANA
JOHN B. McDANIEL
REG. NO. 14383
REGISTERED
PROFESSIONAL ENGINEER

McDANIEL ENGINEERING
1523 WAFER ROAD
HAUGHTON LOUISIANA 71037
949-4538

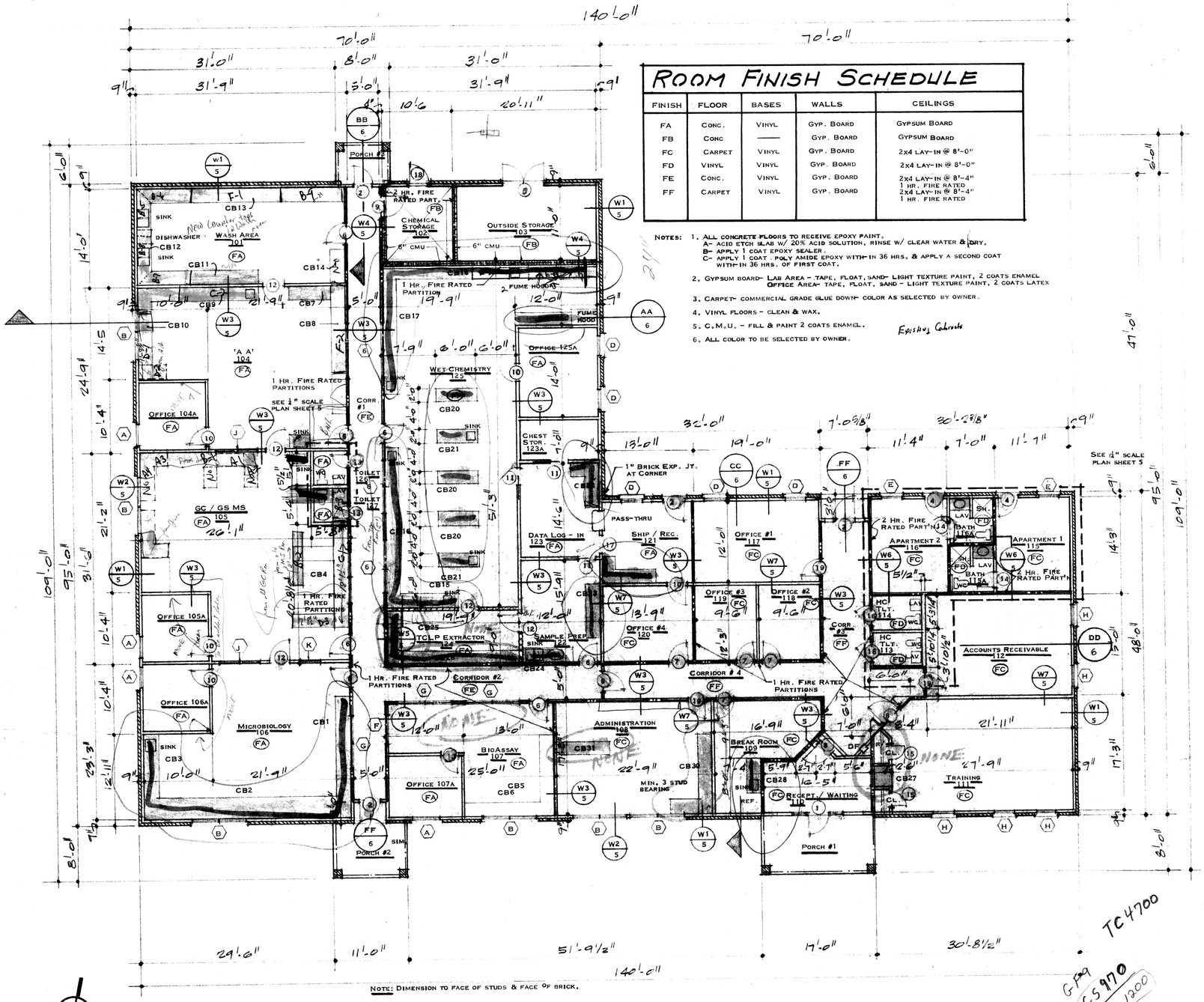
1 FEB 92

NEW FACILITY FOR

MID SOUTH ANALYTICAL LAB

VIKING DRIVE BOSSIER CITY, LA.

2 OF 8



NOTE: DIMENSION TO FACE OF STUDS & FACE OF BRICK.

ROOM FINISH SCHEDULE

FINISH	FLOOR	BASES	WALLS	CEILINGS
FA	CONC.	VINYL	GYP. BOARD	GYPSUM BOARD
FB	CONC	——	GYP. BOARD	GYPSUM BOARD
FC	CARPET	VINYL	GYP. BOARD	2x4 LAY-IN @ 8'-0"
FD	VINYL	VINYL	GYP. BOARD	2x4 LAY-IN @ 8'-0"
FE	CONC.	VINYL	GYP. BOARD	2x4 LAY-IN @ 8'-4" 1 HR. FIRE RATED
FF	CARPET	VINYL	GYP. BOARD	2x4 LAY-IN @ 8'-4" 1 HR. FIRE RATED

NOTES:
1. ALL CONCRETE FLOORS TO RECEIVE EPOXY PAINT.
   A- ACID ETCH SLAB W/ 20% ACID SOLUTION, RINSE W/ CLEAR WATER & DRY.
   B- APPLY 1 COAT EPOXY SEALER.
   C- APPLY 1 COAT POLY AMIDE EPOXY WITHIN 36 HRS. & APPLY A SECOND COAT WITHIN 36 HRS. OF FIRST COAT.
2. GYPSUM BOARD- LAB AREA - TAPE, FLOAT, SAND- LIGHT TEXTURE PAINT, 2 COATS ENAMEL
   OFFICE AREA- TAPE, FLOAT, SAND - LIGHT TEXTURE PAINT, 2 COATS LATEX
3. CARPET- COMMERCIAL GRADE GLUE DOWN- COLOR AS SELECTED BY OWNER.
4. VINYL FLOORS - CLEAN & WAX.
5. C.M.U. - FILL & PAINT 2 COATS ENAMEL.
6. ALL COLOR TO BE SELECTED BY OWNER.

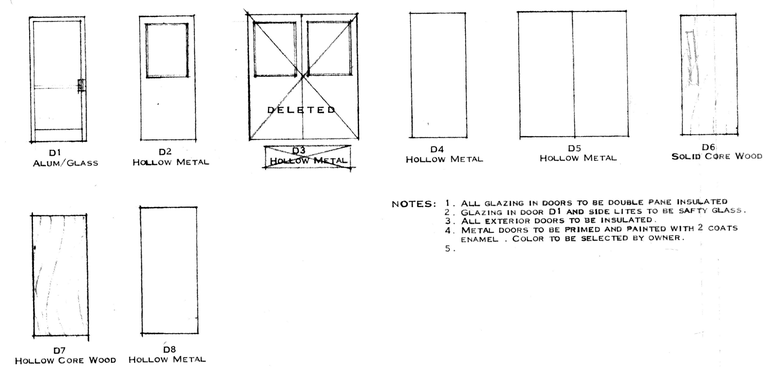
Existing Cabinets

DOOR AND FRAME SCHEDULE

DOOR NO.	TYPE	SIZE	MATERIAL	FRAME TYPE	MATERIAL	NOTES	H'WARE NO.
1	D1	3'-0"x 7'-0"x 1 3/4"	ALUM./ GLASS	F1	ALUMINUM	STORE FRONT	H1
2	D2	3'-0"x 7'-0"x 1 3/4"	HOLLOW METAL	F2	HOLLOW METAL		H2
DELETED 3	~~D3~~	~~PAIR 3'-0"x 7'-0"x 1 3/4"~~	~~HOLLOW METAL~~	~~F3~~	~~HOLLOW METAL~~		~~H3~~
4	D4	3'-0"x 7'-0"x 1 3/4"		F2			H4
5	D5	PAIR 3'-0"x 7'-0"x 1 3/4"		F3			H5
6	D6	3'-0"x 7'-0"x 1 3/4"	SOLID C. WOOD	F6		20 MIN RATED	H6
7	D6	2'-8"x 6'-8"x 1 3/4"		F8	WOOD	20 MIN. RATED	H6
8	D6	3'-0"x 6'-8"x 1 3/4"		F8		20 MIN. RATED	H6
9	D6	3'-0"x 6'-8"x 1 3/4"		F4	HOLLOW METAL	20 MIN. RATED	H6
10	D6	2'-0"x 6'-8"x 1 3/4"		F8	WOOD	20 MIN. RATED	H6
11	D7	2'-8"x 6'-8"x 1 3/8"	HOL. CORE WOOD	F5			H7
12	D6	3'-0"x 6'-8"x 1 3/4"	SOLID C. WOOD	F6	HOLLOW METAL		H6
13	D6	2'-4"x 6'-8"x 1 3/4"		F6		20 MIN. RATED	H8
14	D6	2'-4"x 6'-8"x 1 3/8"		F8	WOOD		H8
15	D6	2'-0"x 6'-8"x 1 3/8"	HOL. CORE WOOD	F8			H9
16	D6	3'-0"x 6'-8"x 1 3/4"	SOLID C. WOOD	F8		20 MIN. RATED	H10
17	---	2'-8"x 6'-8"x -----	CASED OPEN'G	F8			---
18	D8	3'-0"x 6'-8"x 1 3/4"	HOLLOW METAL	F2	HOLLOW METAL		H11
19	D6	2'-8" x 6'-8"x 1 3/4"	SOLID C. WOOD	F6	WOOD	20 MIN. RATED	H12

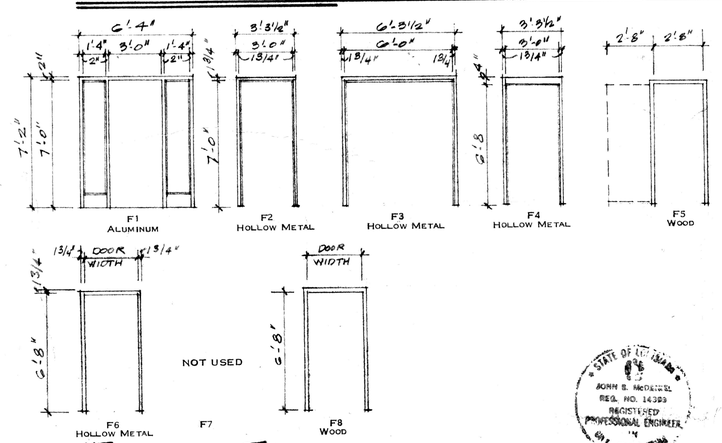
35.00

7910
409.12
$31.12



NOTES:
1. ALL GLAZING IN DOORS TO BE DOUBLE PANE INSULATED
2. GLAZING IN DOOR D1 AND SIDE LITES TO BE SAFTY GLASS.
3. ALL EXTERIOR DOORS TO BE INSULATED.
4. METAL DOORS TO BE PRIMED AND PAINTED WITH 2 COATS ENAMEL . COLOR TO BE SELECTED BY OWNER.
5.

DOOR TYPES



FRAME TYPES

FLOOR PLAN

1/8"=1'-0"

PLAN LEGEND

- BRICK VENEER
- PARTITIONS
- FIRE RATED PARTITIONS SEE PLAN FOR RATING
- CONCRETE MASONRY UNITS (CMU)
- SOUND RETARDING PARTITION
- (8) DOOR DESIGNATION - SEE SCHEDULE
- (B) WINDOW DESIGNATION - SEE SCHEDULE
- (FE) FINISH DESIGNATION - SEE SCHEDULE
- CB1 CABINET DESIGNATION - SEE ELEVATIONS.

PLAN NOTES:

1. APPLY 6 MIL. POLY MEMBRANE TO INTERIOR FACE OF EXTERIOR WALL STUDS UNDER GYPSUM BOARD.
2. POLY FOAM SEAL ALL EXTERIOR DOOR AND WINDOW FRAMES , PLUMBING & ELECTRICAL PENETRATIONS OF EXTERIOR WALLS.
3. ALL FLASHINGS OF ROOF PENETRATIONS AND VALLEY SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA SHEET METAL MANUAL.
4. GUTTERS AND DOWNSPOUTS (IF REQUIRED BY OWNER) SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA SHEET METAL MANUAL. DESIGN AND CONSTRUCTION.
5. TOILET ACCESSORIES : MIRRORS , TOILET PAPER HOLDERS , PAPER TOWEL DISPENSERS , ETC. SHALL BE SELECTED BY OWNER.

TC4700
G-199
GS970
GCC-1200

STATE OF LOUISIANA
JOHN S. McDANIEL
REG. NO. 14393
REGISTERED PROFESSIONAL ENGINEER

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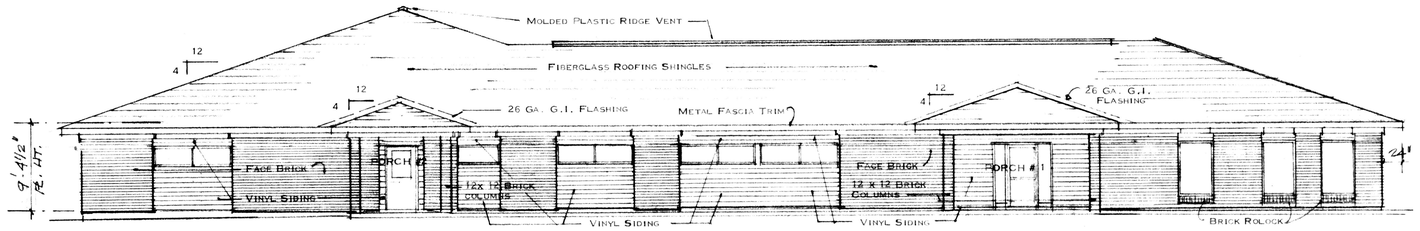
949-4538

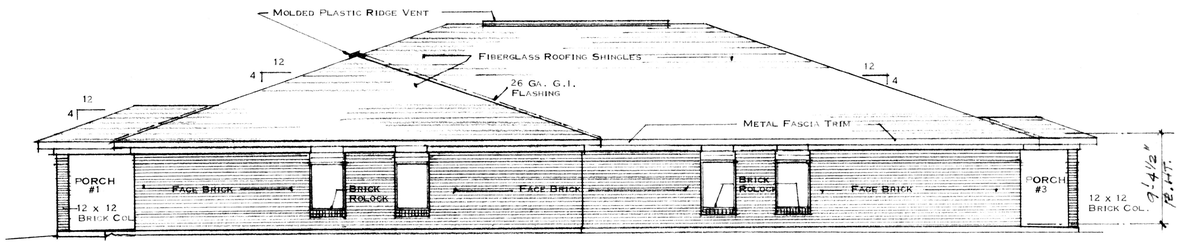
NEW FACILITY FOR
MID SOUTH ANALYTICAL LAB
VIKING DRIVE — BOSSIER CITY, LA.

1 FEB 92



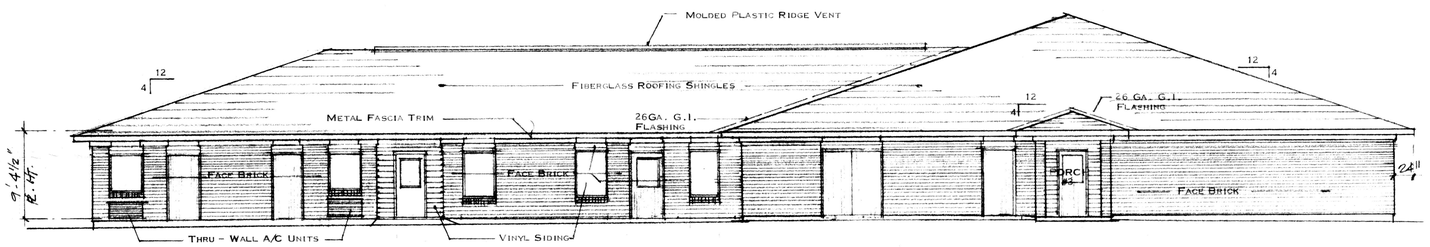
SOUTH ELEVATION

1/8" = 1'-0"



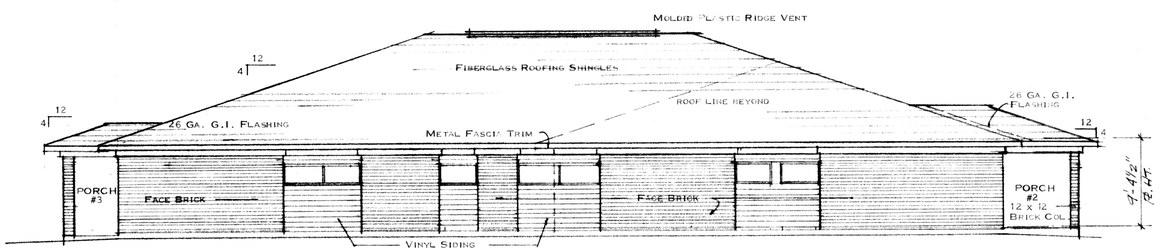
EAST ELEVATION

1/8" = 1'-0"



NORTH ELEVATION

1/8" = 1'-0"

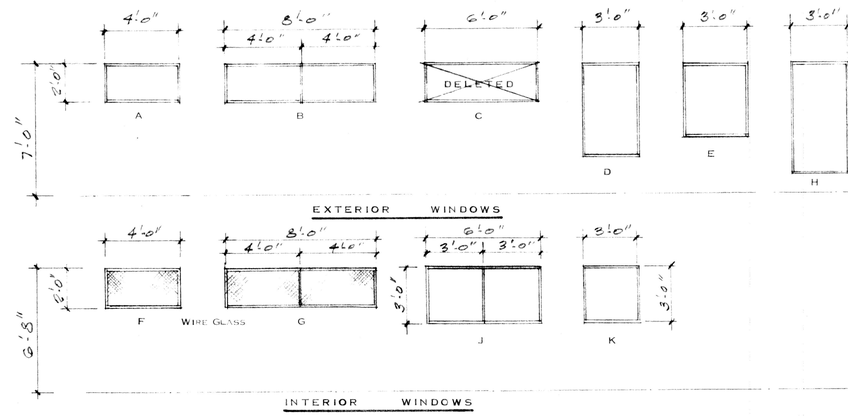


WEST ELEVATION

1/8" = 1'-0"

WINDOW SCHEDULE

	DESIGNATION	SIZE	DESCRIPTION
	A	4'-0" x 2'-0"	ALUMINUM FRAME FIXED GLASS
	B	8'-0" x 2'-0"	ALUMINUM FRAME FIXED GLASS
DELETED	~~C~~	~~6'-0" x 2'-0"~~	~~ALUMINUM FRAME FIXED GLASS~~
	D	3'-0" x 5'-0"	ALUMINUM FRAME FIXED GLASS
	E	3'-0" x 4'-0"	ALUMINUM FRAME FIXED GLASS
	F	4'-0" x 2'-0"	ALUMINUM FRAME FIXED WIRE GLASS
	G	8'-0" x 2'-0"	ALUMINUM FRAME FIXED WIRE GLASS
	H	3'-0" x 6'-0"	ALUMINUM FRAME FIXED GLASS
	J	6'-0" x 3'-0"	ALUMINUM FRAME FIXED GLASS
	K	3'-0" x 3'-0"	ALUMINUM FRAME FIXED GLASS



WINDOW ELEVATIONS

NOTES:
1. ALL EXTERIOR GLAZING TO BE DOUBLE PANE INSULATED , BRONZE TINT.
2. ALL ALUMINUM FRAMES TO BE ANODIZED BRONZE.
3. ALL INTERIOR GLAZING TO CLEAR 1/4" PLATE GLASS.
4. GLAZING IN WINDOWS "F" & "G" TO BE WIRE GLASS FOR 1 HR. FIRE PARTITIONS.

HARDWARE SCHEDULE

H1 - 1 1/2 PAIR BUTTS STANDARD PUSH/PULL CLOSER , DEAD BOLT - KEYED OUTSIDE THUMB TURN INTERIOR - ALUM. THRESHOLD

H2 - 1 1/2 PAIR BUTTS , LOCK SET , CLOSER , DEAD BOLT , ALUM. THRESHOLD

H3 - NOT USED

H4 - 1 1/2 PAIR BUTTS , LOCK SET , DEAD BOLT.

H5 - 1 1/2 PAIR BUTTS - EACH LEAF.
LEFT LEAF : FLUSH BOLTS TOP & BOTTOM
STRIKE PLATE
RIGHT LEAF : DEAD BOLT
PASSAGE SET
FULL ASTRIGAL

H6 - 1 1/2 PAIR BUTTS , PASSAGE SET ,STRIKE PLATE , CLOSER

H7 - STANDARD POCKET DOOR HARDWARE

H8 - 1 PAIR BUTTS PRIVACY SET STRIKE PLATE

H9 - 1 PAIR BUTTS PASSAGE SET

H10 - 1 1/2 PAIR BUTTS , PRIVACY SET , STRIKE PLATE CLOSER

H11 - 1 1/2 PAIR BUTTS , LOCK SET , DEAD BOLT , STRIKE PLATE

H12 - 1 1/2 PAIR BUTTS , LOCK SET , STRIKE PLATE , CLOSER

HARDWARE AND KEYING NOTES

1. HARDWARE TO BE WEISER 'A' SERIES.
2. DEAD BOLTS TO BE WEISER 'D' SERIES
3. PROVIDE HANDICAP HARDWARE WHERE REQUIRED.
4. CLOSERS TO BE : INTERIOR - SARGENT 1100 SERIES
EXTERIOR - SARGENT 1230 SERIES
5. DOOR # 19 INTO OFFICE #1 TO BE KEYED SEPARATLY FROM ALL OTHER DOORS.
6. DOORS # 19 INTO ADMINISTRATION AND ACCOUNTS RECEIVABLE TO BE KEYED ALIKE.
7.
7. DOORS # 4 INTO APARTMENTS #1 & #2 TO BE KEYED ALIKE.
8. ALL OTHER LOCKS TO BE KEYED THE SAME.

STATE OF LOUISIANA
JOHN D. MCDANIEL
REG. NO. 14232
REGISTERED
PROFESSIONAL ENGINEER

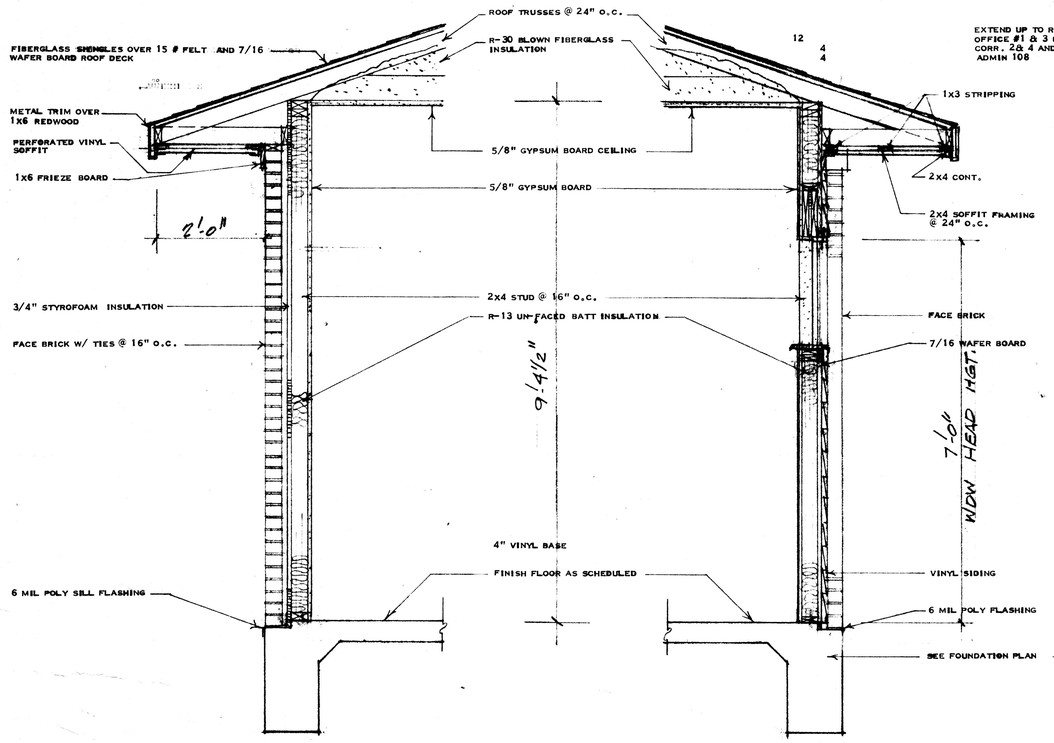
McDANIEL ENGINEERING

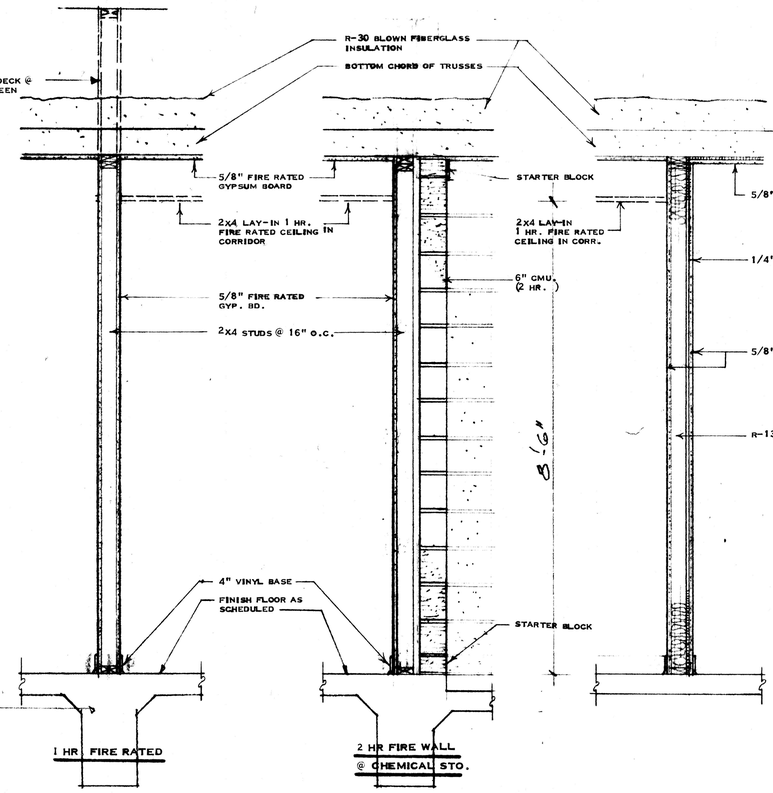
NEW FACILITY FOR
MID SOUTH ANALYTICAL LAB
VIKING DRIVE BOSSIER CITY, LA.

1

WALL SECTIONS

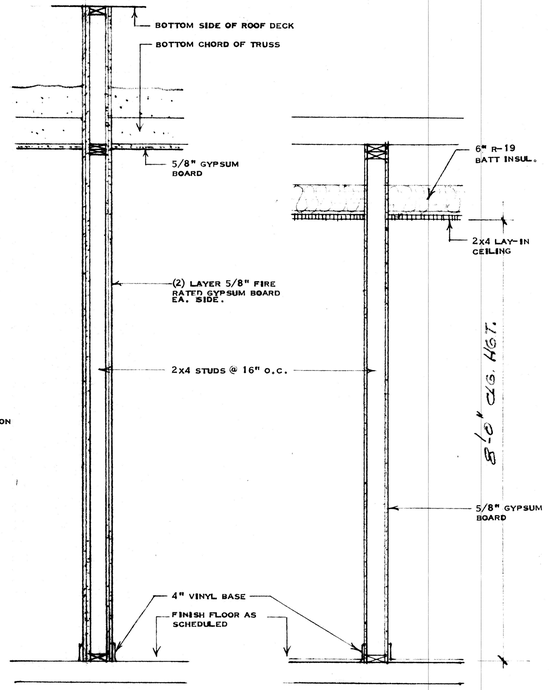
3/4" = 1'-0"





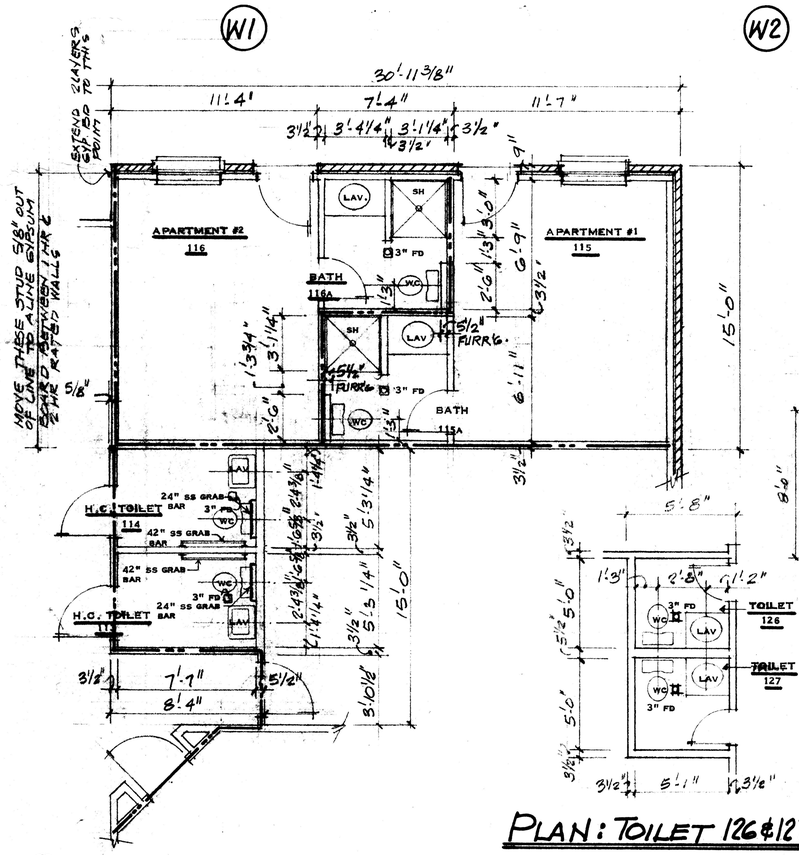
1 HR. FIRE RATED

2 HR FIRE WALL @ CHEMICAL STO.



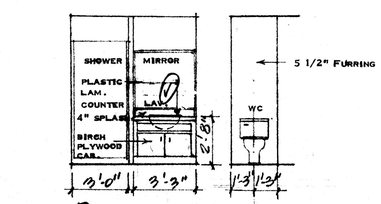
2 HR FIRE WALL @ APARTMENT

TYPICAL NON - RATED PARTITIONS



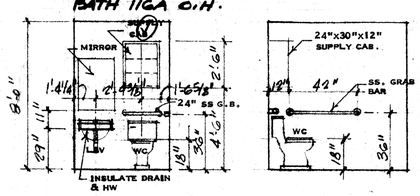
PLANS: H.C. TOILETS & APARTMENTS

PLAN: TOILET 126 & 127



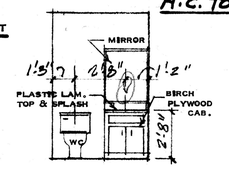
BATH 115A

BATH 116A O.H.



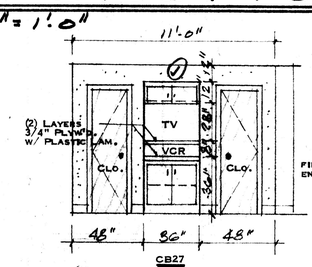
ELEVATION H.C. TOILET 114

H.C. TOILET 113 OPPOSITE HAND

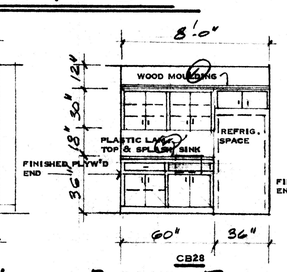


ELEV. 127

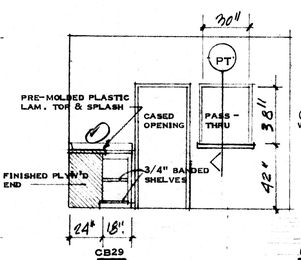
126 ELEV. O.H.

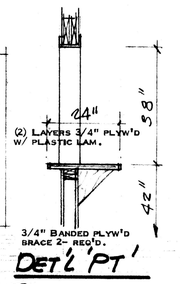


TRAINING 111

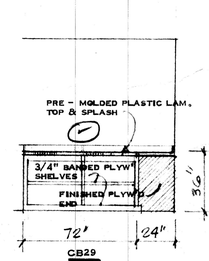


BREAK ROOM 109

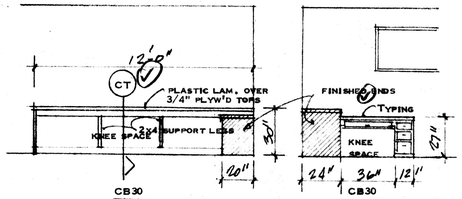




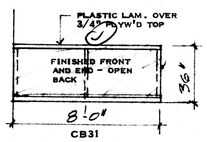
DET'L 'PT'

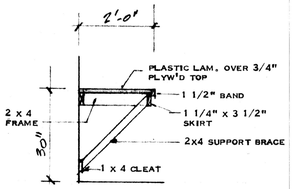


SHIPPING / RECEIVING 121



ADMINISTRATION 108





DETAIL 'CT'

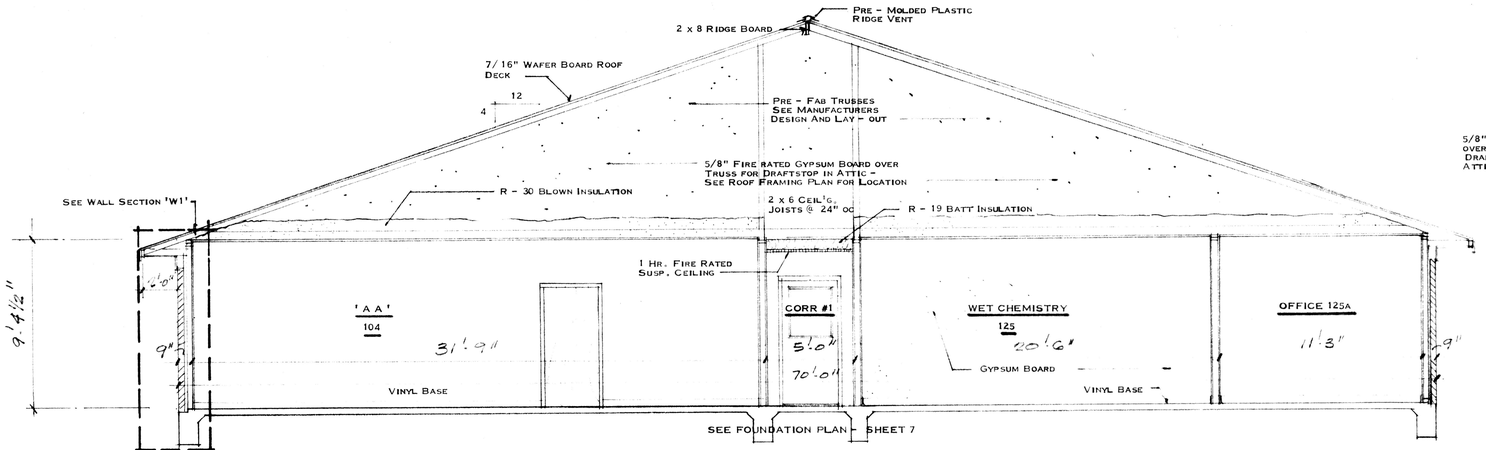
STATE OF LOUISIANA — NORM G. MCDANIEL REG. NO. 14393 REGISTERED PROFESSIONAL ENGINEER IN LOUISIANA

McDANIEL ENGINEERING
1523 WAFER ROAD
HAUGHTON LOUISIANA 71037
949-4538

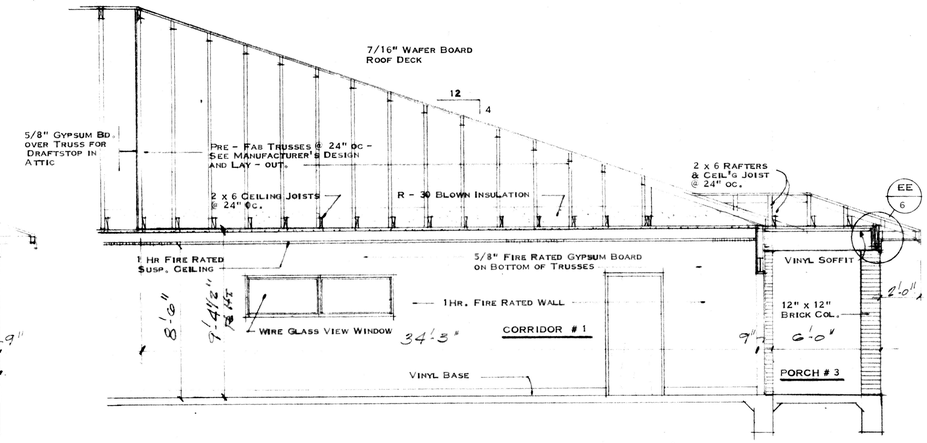
NEW FACILITY FOR

MID SOUTH ANALYTICAL LAB

VIKING DRIVE — BOSSIER CITY, LA.



SECTION 'A-A'



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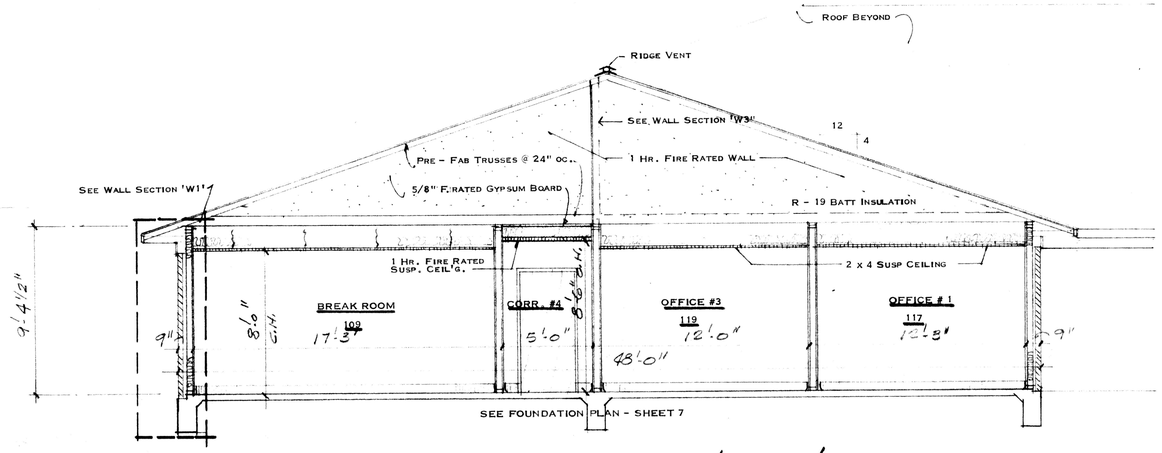

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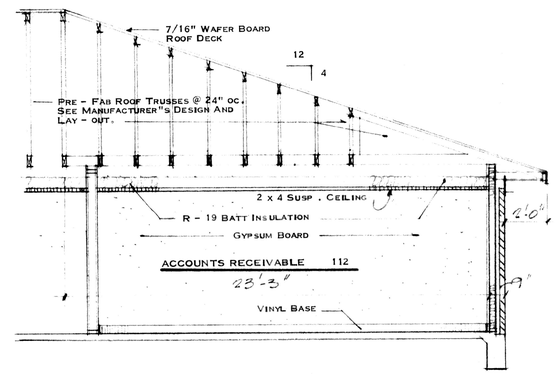

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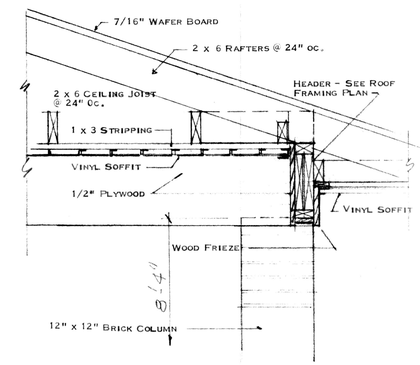
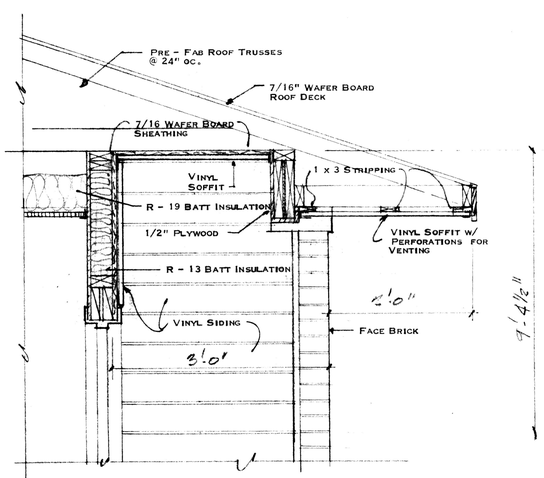
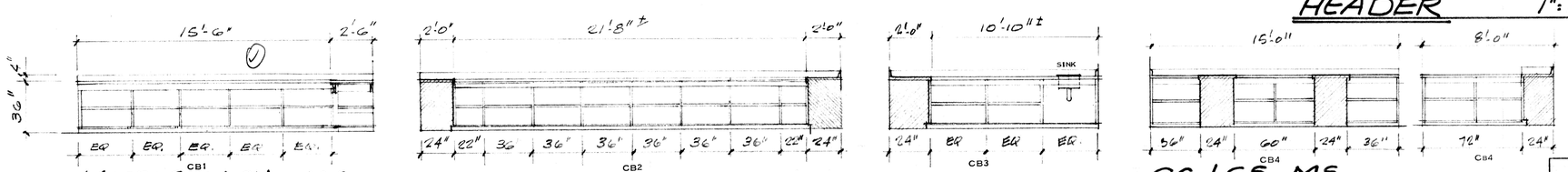


'EE' DETAIL @ PORCH HEADER 1":1'-0"



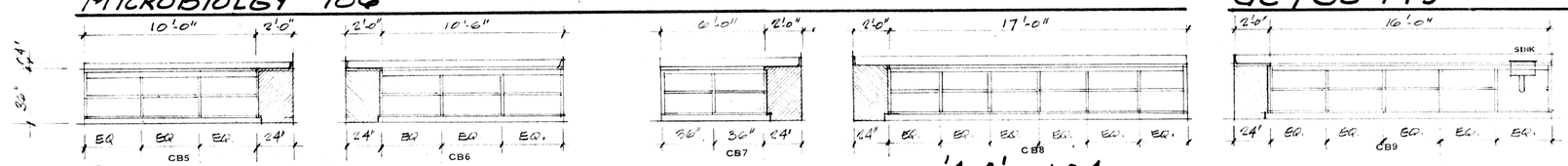
'EF' DETAIL @ ENTRY CORR. #3

1"=1'-0"



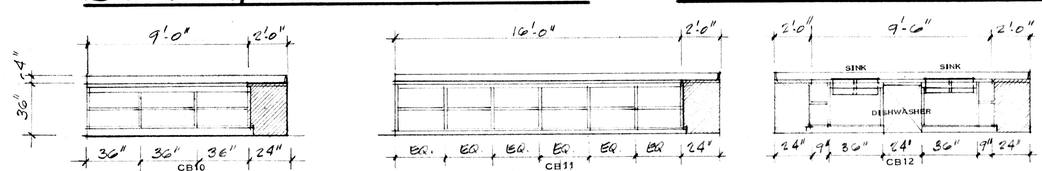
MICROBIOLGY 106

GC / GS MS



BIO ASSAY 107

'AA' 104



'AA' 104

WASH AREA 101

CABINET ELEVATIONS 1/4":1'-0"

NOTE : SEE SHEET 8 FOR CONTINUATION OF CABINET ELEVATIONS AND NOTES.

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1523 WAFER ROAD
HAUGHTON LOUISIANA 71037
949-4538

NEW FACILITY FOR
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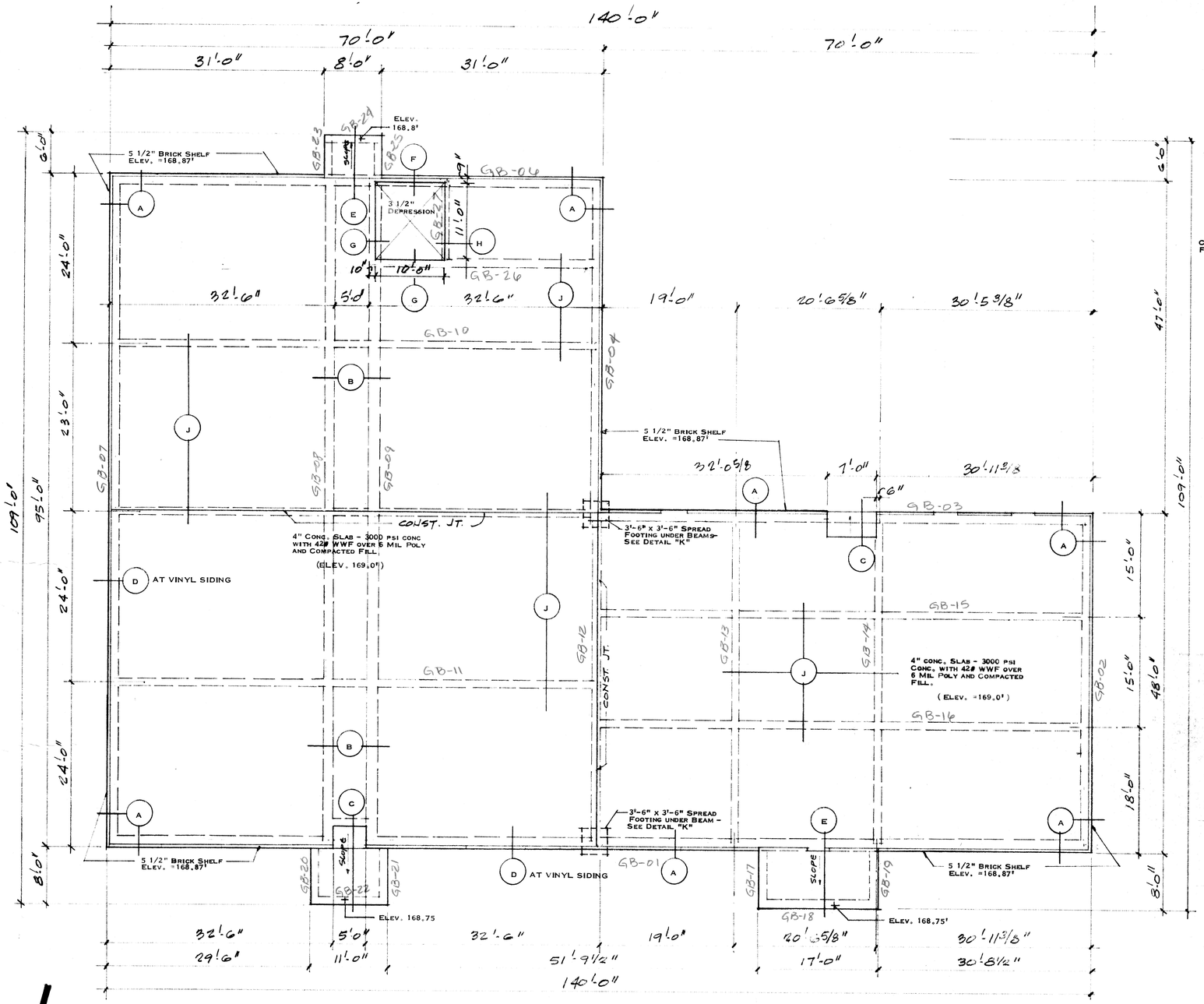
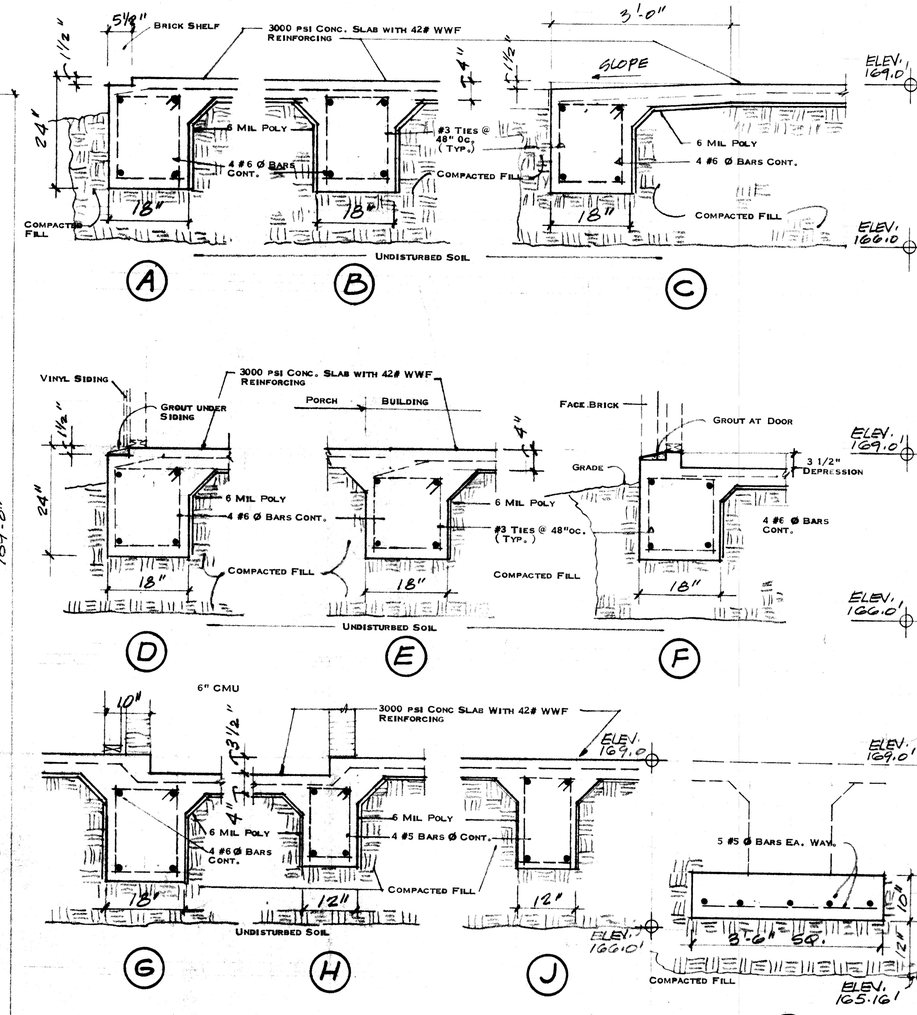


FOUNDATION PLAN

1/8" = 1'-0"



FOUNDATION DETAILS

3/4" = 1'-0"

FOUNDATION NOTES:

1. ALL BUIDINGS SHALL BE PLACED ON COMPACTED RIVER SAND. SITE UNDER BUILDINGS ARE TO BE EXCAVATED TO ELEVATION 166.0 FEET AND SPOIL PLACED ON SITE AS DIRECTED. FILL SHALL BE COMPACTED IN 8" LIFTS AND SHALL BE COMPACTED TO 95% MODIFIED PROCTOR. ALL PAVEMENT SHALL BE PLACED ON 6" MIN. RIVER SAND FILL.
2. ENGINEER SHALL BE NOTIFIED PRIOR TO ALL CONCRETE PLACEMENT AT LEAST 24 HOURS PRIOR TO PLACEMENT.
3. CONCRETE CYLINDERS FOR TESTING SHALL BE TAKEN AS DIRECTED BY ENGINEER.
4. BUILDING SLAB SHALL HAVE CONSTRUCTION JOINTS AS SHOWN ON PLANS. IF SAW CUT IS USED, CUT SHALL BE MINIMUM DEPTH OF 2".
5. FOOTING DESIGNS ARE BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
6. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 LBS. PER SQ. IN. AT THE END OF 28 DAYS.
7. REINFORCING STEEL SHALL MEET ASTM SPEC A615, GRADE 40.
8. FOORING STEEL SHALL BE CONTINUOUS. ALL BARS SHALL LAP A MINIMUM OF 24 BAR DIAMETERS OR 12", WHICHEVER IS GREATER. PROVIDE BENT BARS AT CORNERS.
9. WELDED WIRE FABRIC MUST HAVE END LAPS AND EDGE LAPS OF ONE FULL MESH AND SHALL BE HELD IN PLACE BY WIRING ALL LAPS SECURELY TOGETHER.
10. CONTROL AND CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ARCHITECT. WHERE NECESSARY, VERTICAL CONSTRUCTION JOINTS IN BEAMS AND JOISTS SHALL BE MADE NEAR THE CENTER OF SPAN.

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JOHN S. McDANIEL
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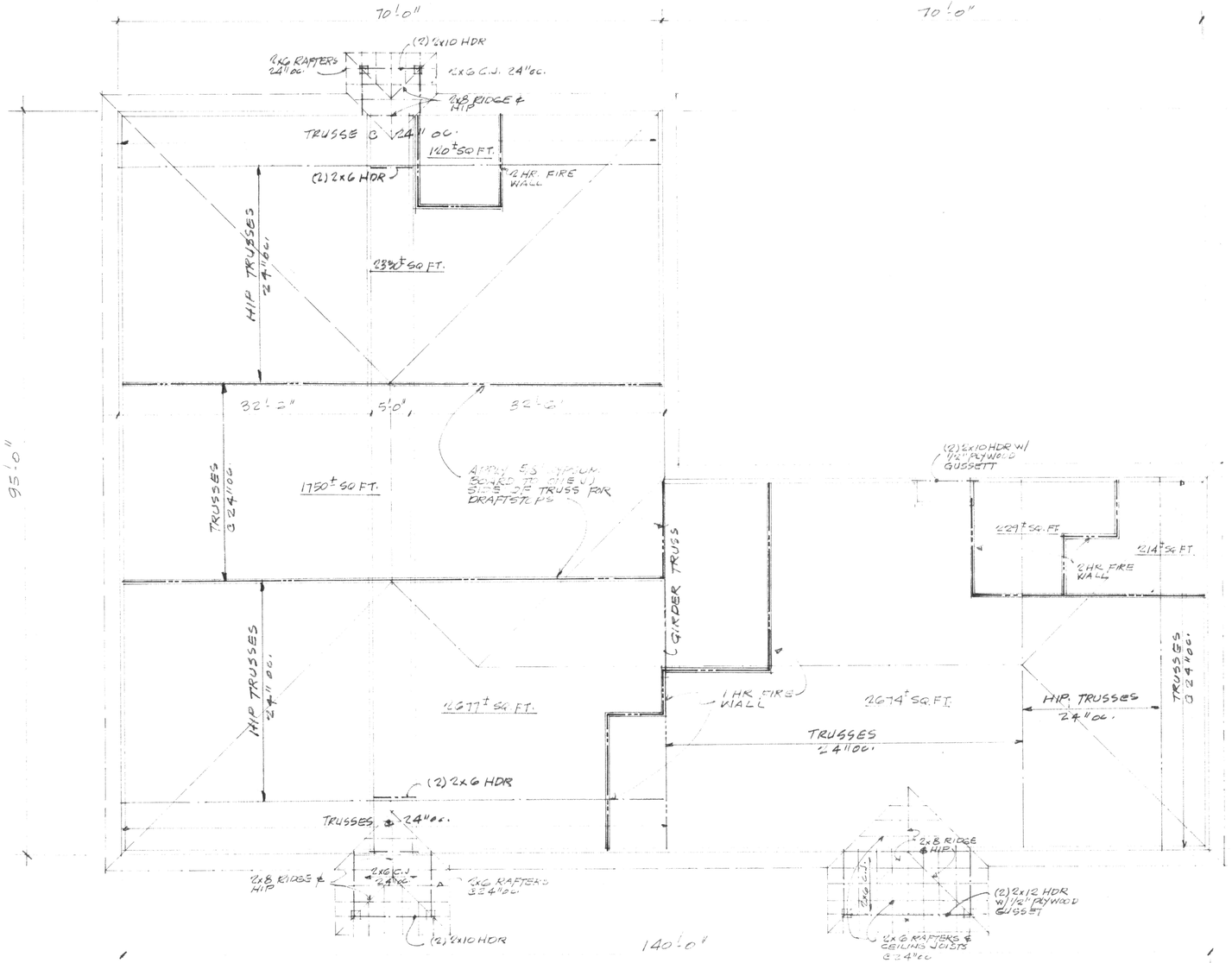
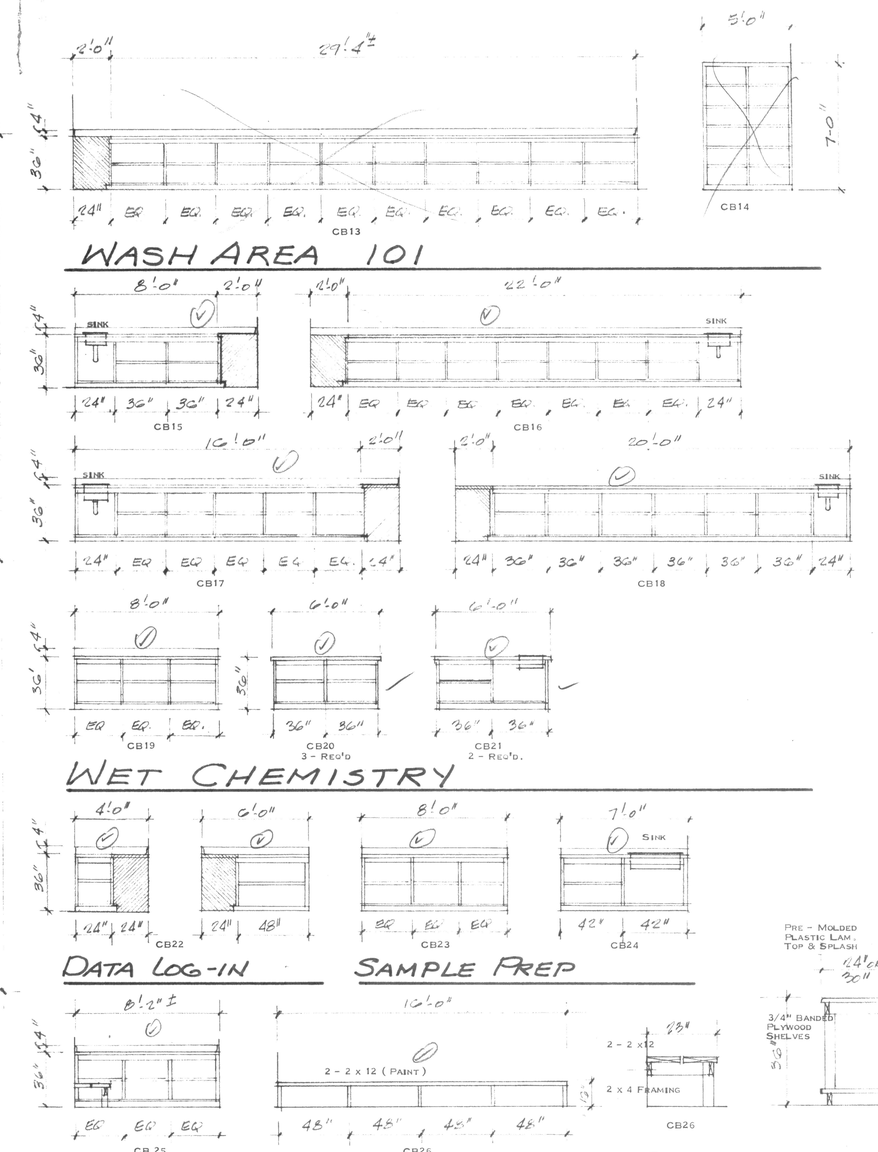


ROOF FRAMING PLAN

1/8" = 1'-0"

NOTES:

1. TRUSSES TO BE DESIGNED BY MANUFACTURE WITH COPY OF DESIGN & LAY-OUT SENT TO ENGINEER.
2. CONVENTIONAL FRAMING SHALL BE AS SHOWN ON PLAN W/ #2KD Y.P. MEMBERS.
3. CONTRACTOR TO PROVIDE & INSTALL ATTIC ACCESS STAIR IN EACH DRAFTSTOP AREA (MINIMUM REQUIRED). LOCATE AS CLOSE TO A/C UNITS AS POSSIBLE. (VERIFY WITH OWNER)
4. CONTRACTOR TO PROVIDE 3/4" BY 2'0" PLYWOOD WALK TO UNITS FROM ACCESS.
5. BRACING AS PROVIDED BY TRUSS MANUFACTURE.
6. HEADER OVER OPENINGS IN LOAD BEARING WALLS SHALL BE (2) 2 x 10 W. 1/2" PLYWOOD GUSSET, MINIMUM
7. CONTRACTOR TO VERIFY WITH MANUFACTURE OF TRUSSES ADDITIONAL WOOD MEMBERS REQUIRED TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR TO COMPLETE ROOF FRAMING.



CABINET ELEVATIONS

1/4" = 1'-0"

NOTES :

1. ALL TOPS TO BE PRE - MOLDED PLASTIC LAM. TOP AND SPLASH.
2. BOTTOM AND MIDDLE SHELVES TO BE 3/4" BANDED PLYWOOD.
3. LAB CABINETS TO BE PAINTED (2) COATS ENAMEL PAINT.
4. OFFICE CABINETS TO BE SEALED , STAINED AND VARNISHED .
5. COLORS TO BE SELECTED BY OWNER.

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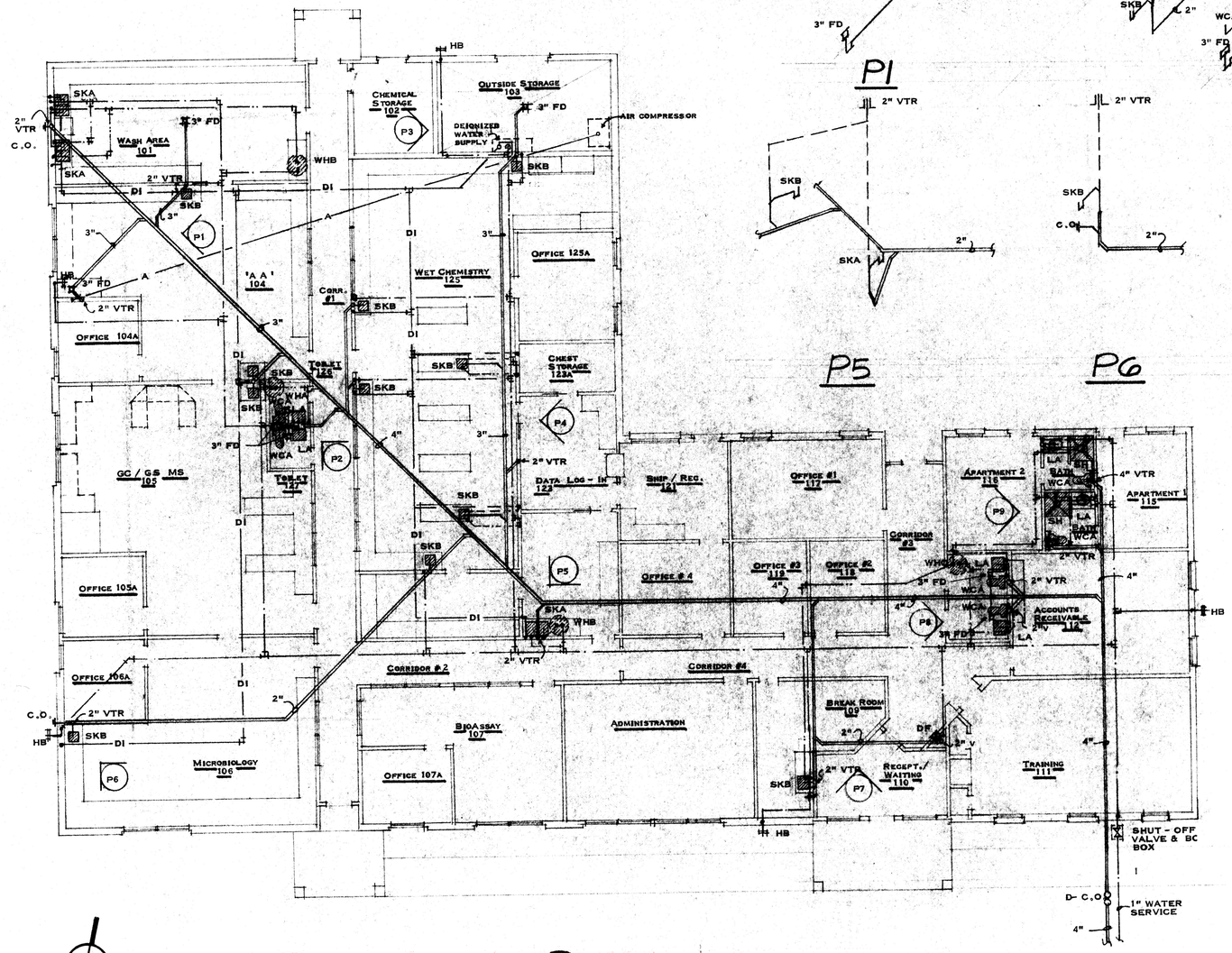
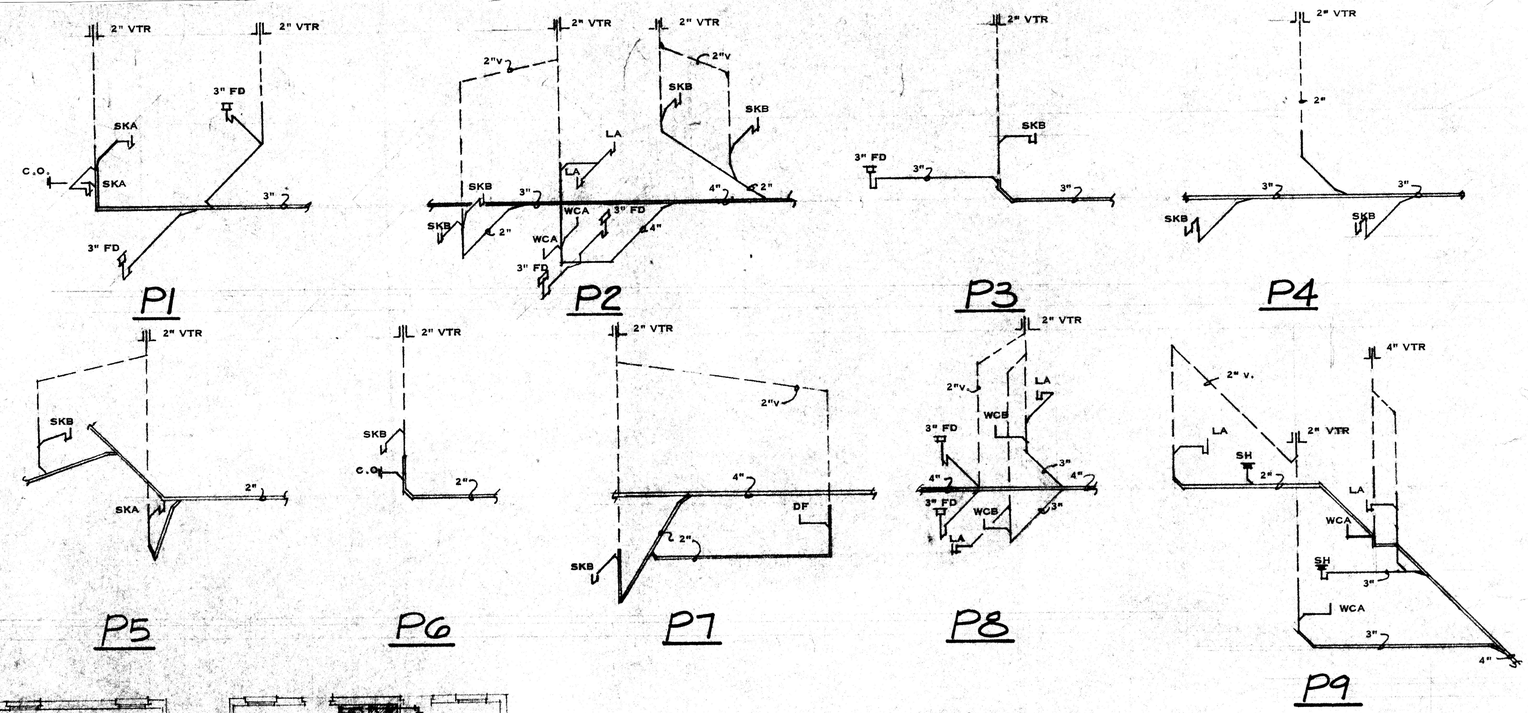


PLUMBING PLAN

1/8" = 1'-0"

PLAN SYMBOLS

- SANITARY SEWER LINE
- COLD WATER LINE
- HOT WATER LINE
- DI — DEIONIZE WATER LINE
- WH — WATER HEATER (ELEC.)
- A — COMPRESSED AIR LINE



RISER DIAGRAMS

NO SCALE

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	MANUFACTURER & NUMBER
SKA	DOUBLE COMPART. SINK	ELKAY # DLR 3322 - 10 WITH DELTA #2276 FAUSET.
SKB	SINK	POLAR # K - 1559B
LA	LAVATORY	BRIGGS # 6500 WITH 2522 MPU FAUSET
DF	DRINKING FOUNTAIN	ELKAY # WD 701-5
SH.	SHOWER	KORAL #619 , 36" x 36" WITH DELTA 2872C FAUSET
WCA	WATER CLOSET	BRIGGS # 4918
WCB	HANDICAP WATER CLOSET	BRIGGS # 4728 WITH #1955C SEAT
FD	FLOOR DRAIN	#1100 F.D. - 3"
* WHA	WATER HEATER	STATE # 81VP6S - 6 GAL. (120 v)
* WHB	WATER HEATER	STATE # 81VP10S - 10 GAL (120 v)
* WHC	WATER HEATER	STATE # 81VP52D - 50 GAL (220 v)

* PROVIDE GALV. SAFE PAN AND DRAIN TO NEAREST VENT PIPE.

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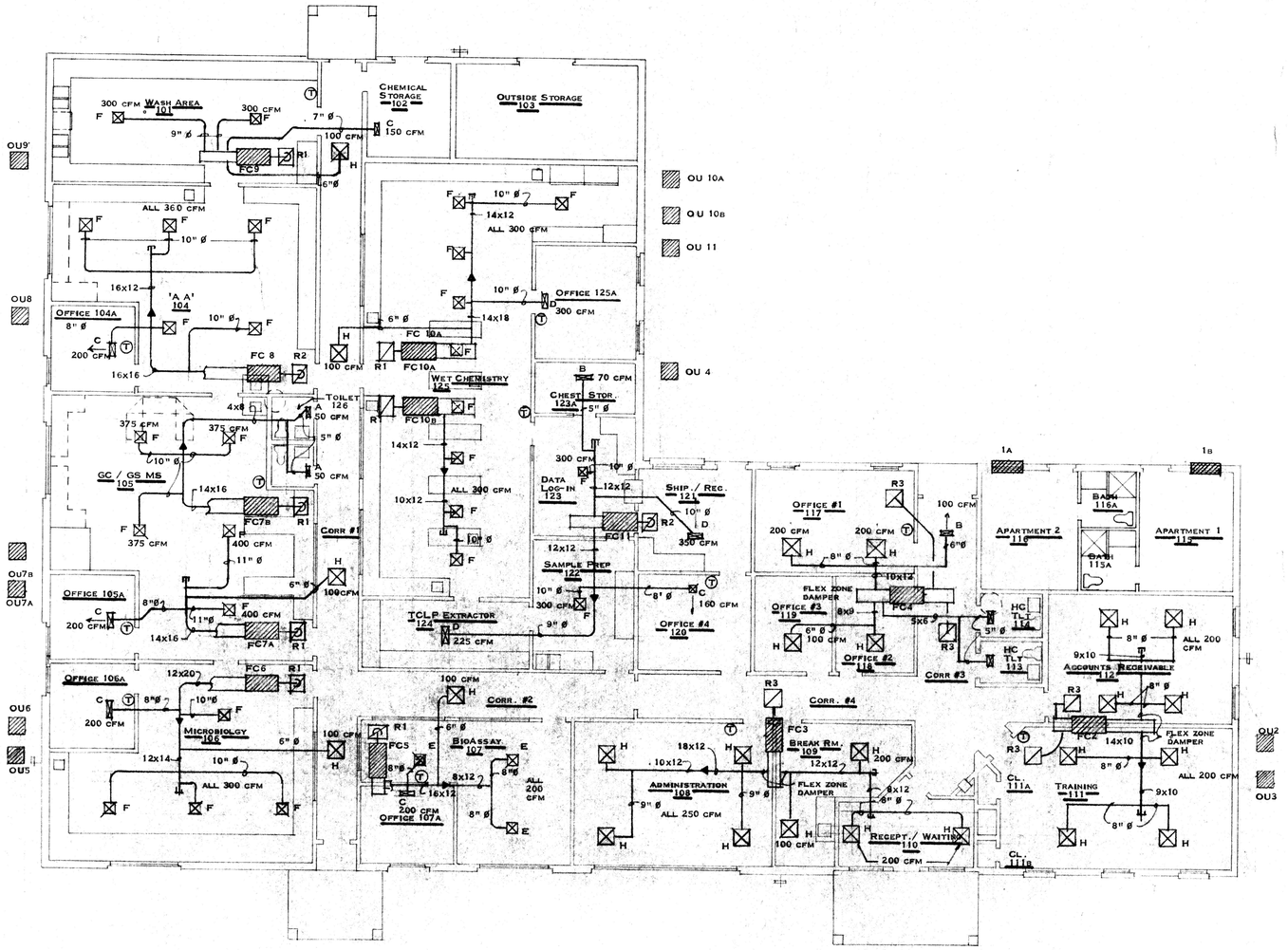
P1 OF 1P



AIR CONDITIONING PLAN

1/8" = 1'-0"

PLAN SYMBOLS

FC	FAN COIL UNIT (INDOOR)
OU	OUTSIDE UNIT
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
T	THERMOSTAT
	DUCT WORK WITH TRANSITION

AIR CONDITIONING EQUIPMENT SCHEDULE

UNIT NO..	
1A 1B	ZONE AIR - MODEL THA12K34ST HEAT PUMP PTAC UNITS COOLING CAPACITY 11800 BTUH - 9.8 EER , 5.4 AMPS HEATING CAPACITY 11500 BTUH - 3.2 COP , 7.7 AMPS.

FAN COIL AND HEAT PUMP MODEL NUMBERS ARE LENNOX EQUIPMENT

UNIT NO.	FAN COIL	HEAT STRIP	KW	CFM	OUTDOOR UNIT	TYPE	COOLING CAP.	SEER
2	CBH19-51	ECO19-8	8	1400	HP20 - 461	HP.	43000	11.6
3	CBH19-51	ECO19-8	8	1600	HP18 - 511	HP	48500	9.8
4	CBH19-41	ECB19-8	8	1250	HP20 - 411	HP	36000	11
5	CBS18-26	ECB18-5	5	800	HS20 - 261	SC	23000	10.6
6	CBH19-51	ECB19-8	8	1600	HS16 - 511	SC	50000	10.35
7A	CBH19-41	ECB19-5	5	1200	HS20 - 411	SC	35400	11.2
7B	CBH19-41	ECB19-5	5	1200	HS20 - 411	SC	35400	11.2
8	CBH19-65	ECB19-10	10	1975	HS16 - 651	SC	65000	11
9	CBS18-26	ECB18-5	5	800	HS20 - 261	SC	23000	10.6
10A	CBH19-41	ECB19-5	5	1250	HS20 - 411	SC	35400	11.2
10B	CBH19-41	ECB19-5	5	1250	HS20 - 411	SC	35400	11.2
11	CBH19-51	ECB19-12.5	12.5	1600	HS16 - 511	SC	50000	10.35

NOTES:

1. UNITS 2 THRU 4 FLEX ZONE SYSTEM
2. UNITS 5 THRU 11 LOW AMBIENT KITS FOR COOLING BELOW 50°F.
3. ALL UNITS WITH THERMAL EXPANSION VALVES.
4. HEAT PUMP UNITS EQUIPED WITH OUTDOOR THERMOSTAT.
5. ALL FAN COIL UNITS TO HAVE 125°F MANUAL RESET - NONADJUSTABLE FIRESTATS.
6. ALL FAN COIL UNITS TO HAVE AUXILIARY DRAIN PANS , DRAINS AND SAFETY SWITCHES.
7. PROVIDE OUTSIDE LOUVER AND WALL SLEEVE FOR UNITS 1A & 1B.

AIR CONDITIONING GRILLES AND DIFFUSERS

R1	20" x 25"	RETURN AIR FILTER GRILLE
R2	30" x 25"	RETURN AIR FILTER GRILLE
R3	24" x 24"	RETURN AIR FILTER GRILLE - LAY-IN GRID TYPE

A	8" x 4"	SUPPLY AIR DIFFUSER	(1 - WAY)
B	10" x 6"	" " "	"
C	10" x 8"	" " "	"
D	14" x 8"	" " "	"
E	10" x 10"	" " "	(4 - WAY)
F	12" x 12"	" " "	"
G	14" x 14"	" " "	"
H	24" x 24"	" " "	" LAY - IN GRID TYPE

NEW FACILITY FOR

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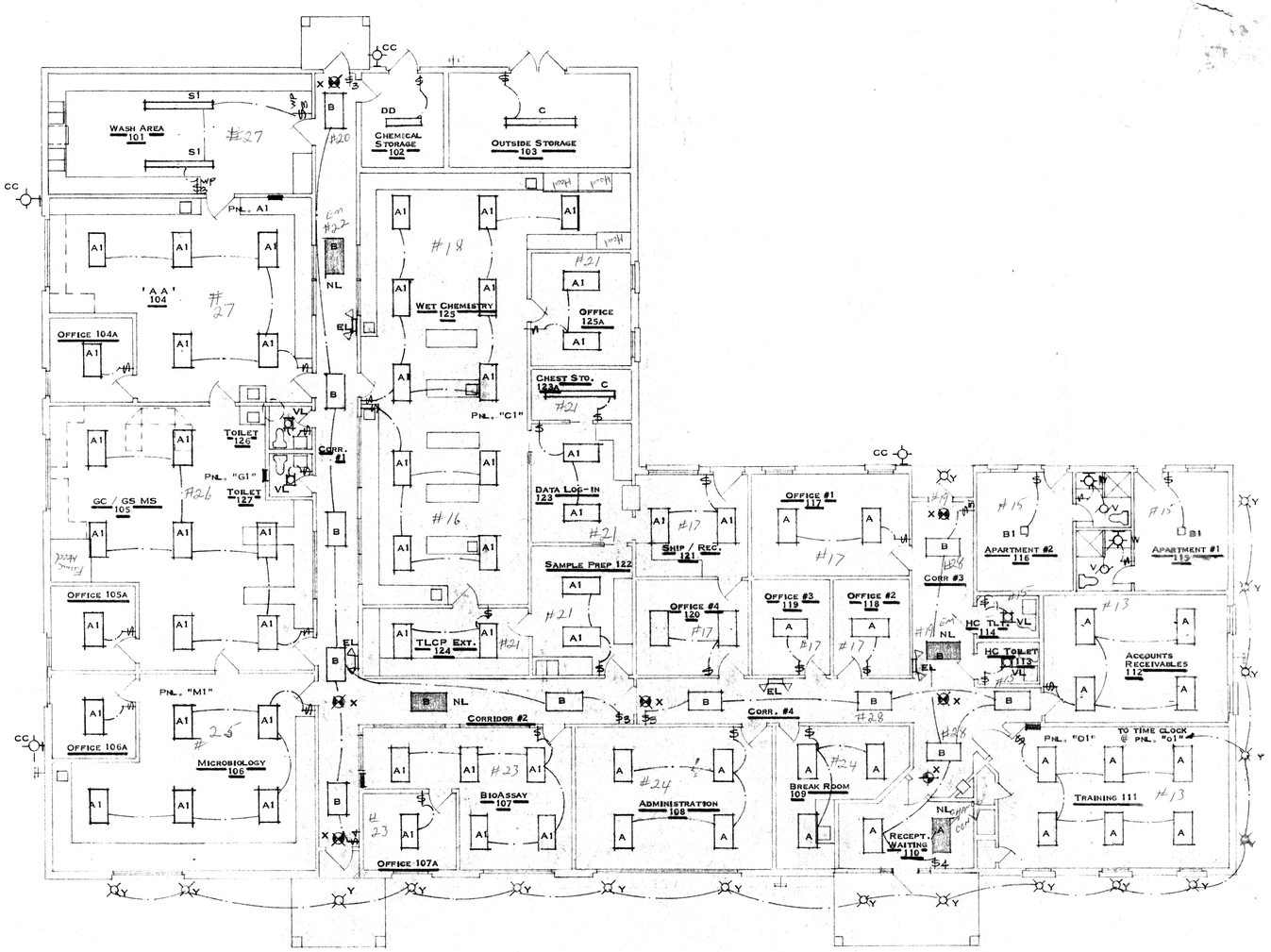
M1

OF 1M



LIGHTING PLAN

1/8" = 1'-0"

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER & CAT. NO	DESCRIPTION
A	SIM KAR #TY 244-440-E1-L1	4 LAMP RECESSED GRID TROFFER
A1	SIM KAR # SY 920-440-E1	4 LAMP SURFACE WRAP- AROUND
B1	SIM KAR # TY 242-240-E1-L1	2 LAMP RECESSED GRID TROFFER
B1	PROGRESS # P3656 - 10	3 LAMP (3-60A) SURFACE INCANDESCENT
C	SIM KAR # CHX296120	2 LAMP 8' STRIP (2 F96T12 CW)
S1	SIM KAR #CHX296120	2 LAMP 8' STRIP WITH #TDW296 NSF HOUSING (2 - F96T12CW)
W	STARLIGHT # SL282	WALL BRACKET 2 LAMP (2 - 60A)
V	NUTONE # 8814	EXHAUST FAN
VL	NUTONE # 668N	VENT LIGHT 1 - 60A
X	DUALITE # KSG - EP	SURFACE MTD. EXIT FIXTURE (CONNECT TO UN - SWITCHED CIRCUIT)
Y	HALO # H800 - 8100	RECESSED FLUORESCENT, SOFFIT LIGHT - TIME CLOCK CONTROLLED
EL	DUALITE # E2 - 2	2 HEAD EMERGENCY LIGHT W/ BATTERY PACK
AA	HUBBELL # SSP 4251 - M51	25' SQUARE STRAIGHT ANCHOR BASE POLE W/ (1) THB - 32 TENNON TOP 3 POSITION BRACKET AND (3) MHS - 0400S - 268 400 HPS FLOODLIGHTS W/ LAMPS AND (3) 4024C SLIPFITTERS. PHOTO CELL CONTROLLED
BB	SAME AS AA EXCEPT WITH THB - 21 POLE TOP BRACKET AND (2) FIXTURES WITH SLIPFITTERS.	PHOTO CELL CONTROLLED
CC	LUMARK # HPWY - PL- 50 - 120V - LL	WALL PACK - 50 W SODIUM - W/ PHOTO CELL CONTROL
DD	HUBBELL #HLF-2R R1	2 LAMP - SURFACE FLOURESCENT

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	2 x 4 FLUORESCENT LIGHT FIXTURE (MAX. 1600 W PER CIRCUIT)		15A DUPLEX RECEPTACLE (MAX. 8 PER CIRCUIT)
NL	FLUORESCENT LIGHT FIXTURE ON NIGHT LIGHT CIRCUIT		DUPLEX RECEPTACLE MTD. 6" ABOVE COUNTER
	FLUORESCENT STRIP LIGHT		FLOOR STUB WITH (2) DUPLEX RECEPTACLES SURFACE MOUNTED
	VENT LIGHT		TELEPHONE OUTLET W/ 3/4" CONDUIT STUB INTO ATTIC SPACE
	INCANDESCENT LIGHT FIXTURES		COMPUTER OUTLET WITH 3/4" CONDUIT STUB INTO ATTIC SPACE
	EXIT LIGHT FIXTURE		HOME RUN TO PANEL
	DUAL HEAD EMERGENCY LIGHT FIXTURE		SPECIAL EQUIPMENT OUTLET - VERIFY WITH OWNER FOR ROUGH - IN.
S, S_3, S_4	SINGLE POLE, THREE - WAY AND FOUR - WAY TOGGLE SWITCHES.		

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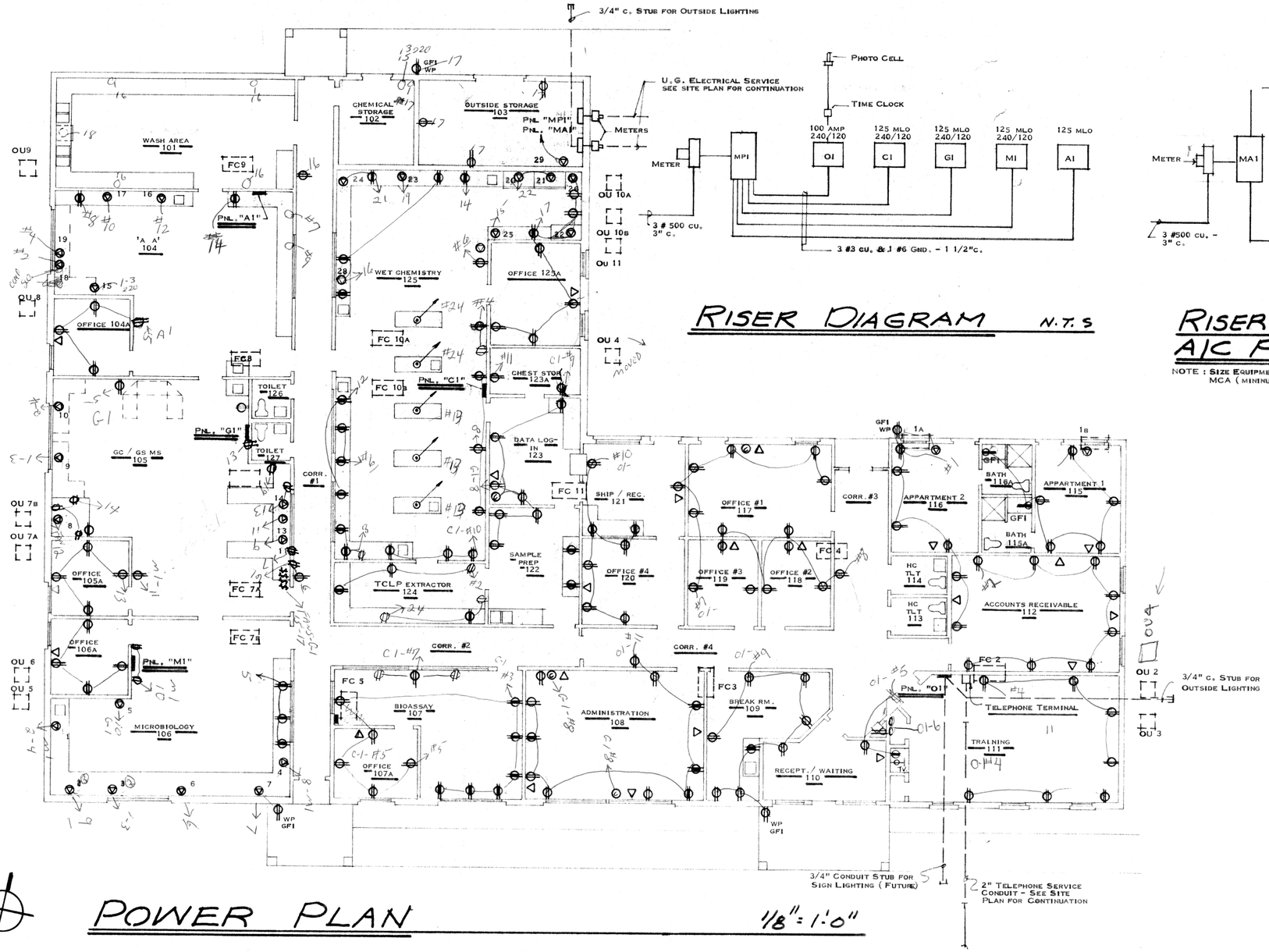
E1

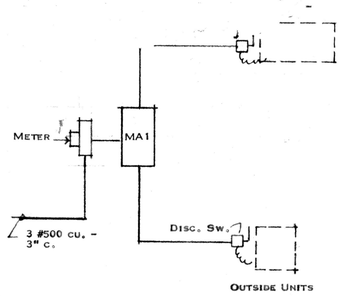
OF 2E



POWER PLAN

1/8" = 1'-0"

RISER DIAGRAM N.T.S



RISER DIAGRAM A/C PANEL N.T.S.

NOTE : SIZE EQUIPMENT CIRCUITS PER MANUFACTURER'S MCA (MINIMUM CIRCUIT AMPS.)

EQUIPMENT SCH	
UNIT NO.	
1	AU
2	AU
3	OV
4	W
5	INCU
6	LAMINAR HO
7	LAMINAR HOOD -
8	FUME HOOD - 20,
9	MASS SPEC - (2) -
10	MASS SPEC - (2)
11	FID - (1) - 30A
12	PID - (1) - 30A
13	HP FID - (4) -
14	WATER BATH -
15	GRAPHITE FUP
16	WATER BATH
17	MERCURY ANA
18	HYDRIDE GENE
19	AA COMPUTER - (1
20	FUME HOOD - (1) - 2L
21	FUME HOOD - (1) - 20A
22	FUME HOOD - (1) - 20A-12L
23	ION CHROMATOGRAOH - (1) - 2
24	TOC-CENTRIFUGE - (1) - 20A-12
25	BOMB CHLORINATOR - (1) - 20A-12L
26	FLASH POINT - (1) - 20A-120V PANEL C
27	INCUBATOR - (1) - 20A-120V - PANEL C1
28	OVEN - (1) - 20A-120V - PANEL C1
29	AIR COMPRESSOR - (1) - 60A-240V - MP1

PANEL SCHEDULE

400 AMP MB	MP1	240 / 120V - 1 Ø		400 AMP. MB	MA1	240 / 120 - 1 Ø
CIRCUITS		SERVING		CIRCUITS		SERVING
1 - 2P - 100A		PANEL A1		2 - 2P - 20A		THRU WALL A/C 1A & 1B
1 - 2P - 100A		PANEL O1		3 - 2P - 40A		FAN COIL UNITS # 2,3,4,
1 - 2P - 100A		PANEL C1		2 - 2P - 30A		OUTSIDE UNITS # 2 & 3
1 - 2P - 100A		PANEL G1		1 - 2P - 20A		OUTSIDE UNIT # 4
1 - 2P - 100A		PANEL M1		6 - 2P - 30A		FAN COIL UNITS # 5, 7A, 7B 9, 10A, 10B, OUTSIDE UNITS #5, 7A, 7B, 9, 10A, 10B
1 - 2P - 60A		AIR COMPRESSOR		6 - 2P - 30A		
12 - 1P - 20A		LIGHTING		1 - 2P - 60A		FAN COIL UNIT # 11
				1 - 2P - 30A		OUTSIDE UNIT # 11
				1 - 2P - 40A		OUTSIDE UNIT # 6 FAN COIL UNIT # 6
				1 - 2P - 50A		OUTSIDE UNIT # 8 FAN COIL UNIT # 8

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