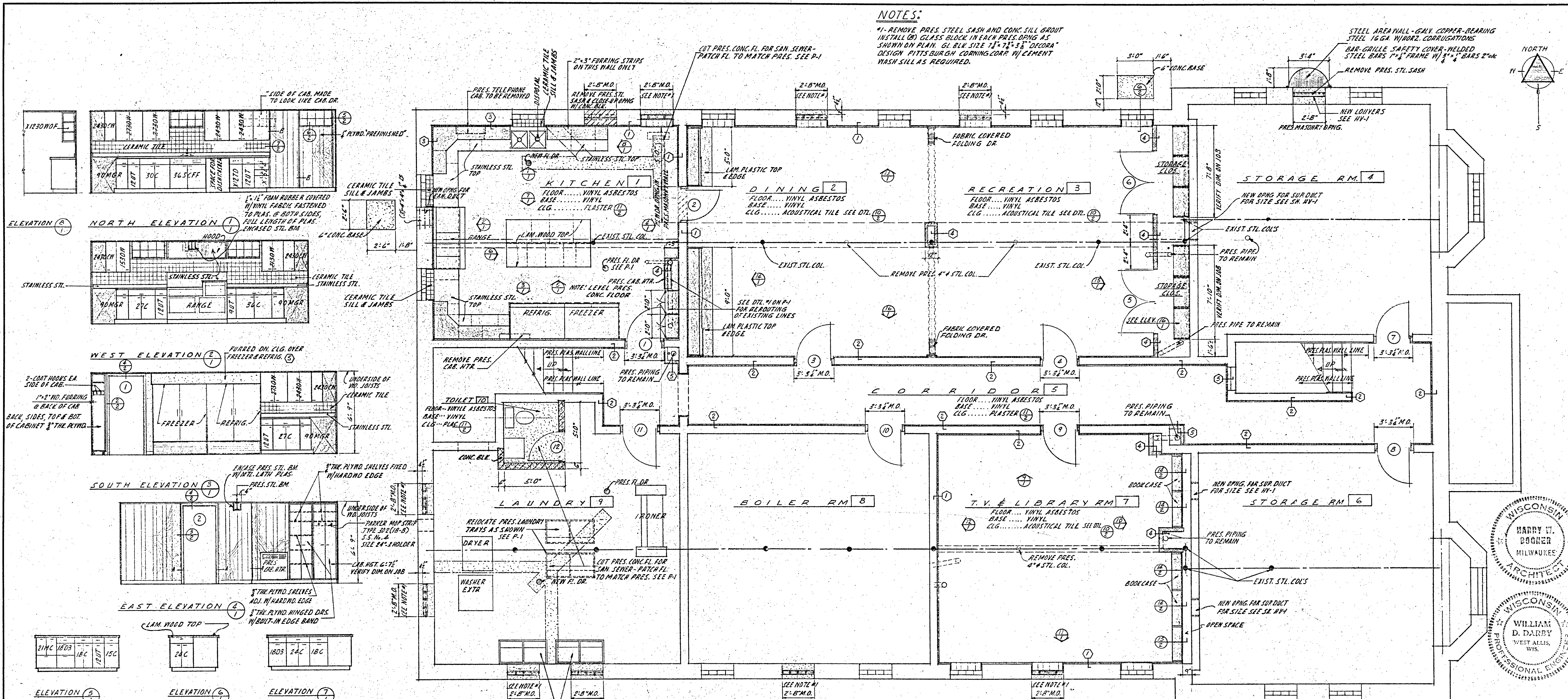




DARBY, BOGNER & ASSOCIATES, INC.
ARCHITECTS
ENGINEERS
WISCONSIN

PILUS XI HIGH SCHOOL FACULTY RESIDENCE
BASEMENT FLOOR PLAN
INTERIOR ELEVATIONS & DETAILS

145 SOUTH 76TH STREET
MILWAUKEE, WISCONSIN

REVISIONS TO
BASEMENT
FLOOR PLAN
INTERIOR ELEVATIONS & DETAILS

JOB NO.
6408

SHEET NO.
1 of 5

DATE COMPLETED
9/7/65

PRINTED BY
9/7/65

APPROVED
DATE
BY
CHECKED BY
DATE
BY

SPECIFICATIONS:

General:

- The contractor to obtain and pay for general building permit.
- Contractor to comply with Local & State building codes, laws and ordinances.
- All work shall be subject to the "General Conditions of the Contract for the Construction of Buildings" A.I.A. Document A-201, Articles 1-14, inclusive.
- All removal, patching & repairing to conceal mechanical pipes, ducts and conduits, to be by General Contractor.
- These drawings and outline specifications indicate the overall scope of work required. As such the detailed work requirements must be incorporated into all the work as a practice of the trade.

Excavating:

- Excavate to depths shown for footings and slabs.
- Gravel backfill 8" for all slabs.
- Remove from premises all excess material.

Concrete:

- Concrete: 5,5 bag mix; 3000 lb/sq.in.
- Reinforcing as shown on drawings.
- Expansion joints; vapor barrier as shown on drawings.
- Apply 2 coats of Horn Co.'s "Clear Seal" to all concrete floors.
- Masonry: Concrete block; Load bearing type, conforming to the physical requirements of the Local & State building codes.
- "Dur-O-Wall" reinforcing every second course.

Dampproofing: (From top of footing to Grade.)

- 1" Grooved Cement Mortar plus 2 coats of Asphalt Dampproofing.

Face Bricks:

- Cost: \$35.00 per thousand including delivery.
- As selected by Architect.

Rigid Insulation:

- Inside of Foundation Walls: 2" styrofoam "Storboard"
- Sheet Metal: 16 oz. copper for gutters, downspouts, flashing and standing seam roof.

Roofing: Built up roof - J.M. Spec. #801 (for wood decks)

- Pitched Roof - J.M. 325 Seal-O-Matic 5" exposure
- Roof Insulation - J.M. "Top-Loc-Roof Insul."

Carpentry & Millwork:

- Framing Members - White Fir - Exterior Trim - Ponderosa Pine
- Wood Deck - Pine or Fir 3" nominal thickness
- Laminated Beams - Pine - 2400 p.s.i.
- Doors, Basement and Exterior - U.S. Plywood Stay Strate
- Others - Wood Solid Core - Natural Birch Veneer
- All exposed woodwork - solid or plywood as detailed: Natural birch.
- Folding Doors - Modern Fold Sound Master #80 - Recreation Room
- Modern Fold Woodmaster #500 - Sacristy.

Plastering:

- Basement - Portland Cement Plaster - smooth trowel finish
- Chapel & Visiting Room - Gypsum plaster - Sand float finish

Flooring: Vinyl Asbestos - 3/16" thick Flintkote.

- Ceramic Tile: 1/4" Bright Glazed. Adhesive application.
- Acoustical Tile: 12 x 12 9/16 Celotex Co. Fissured Tile.

SPECIFICATIONS: cont'd.

Allowances - to be included in General Construction

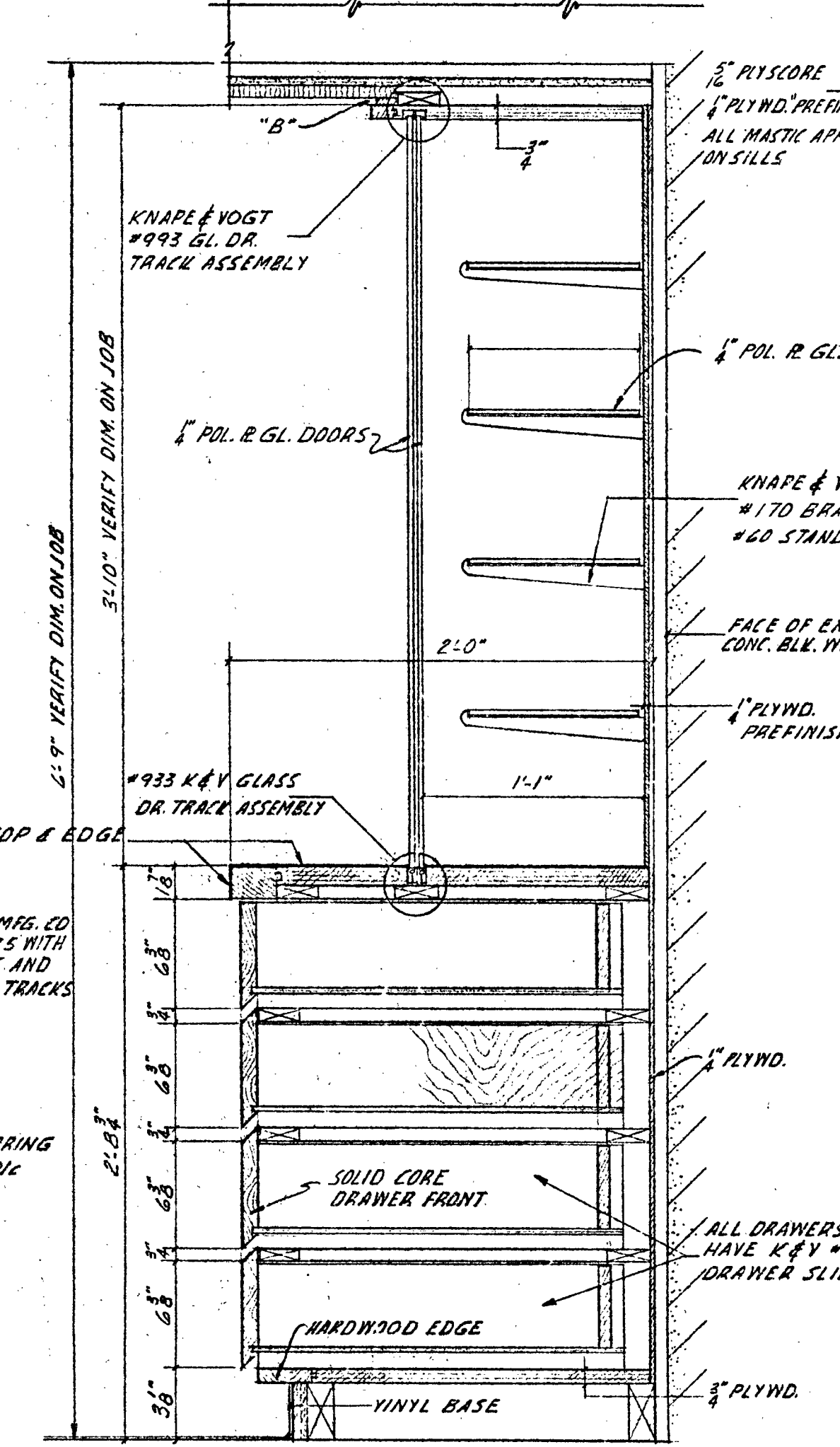
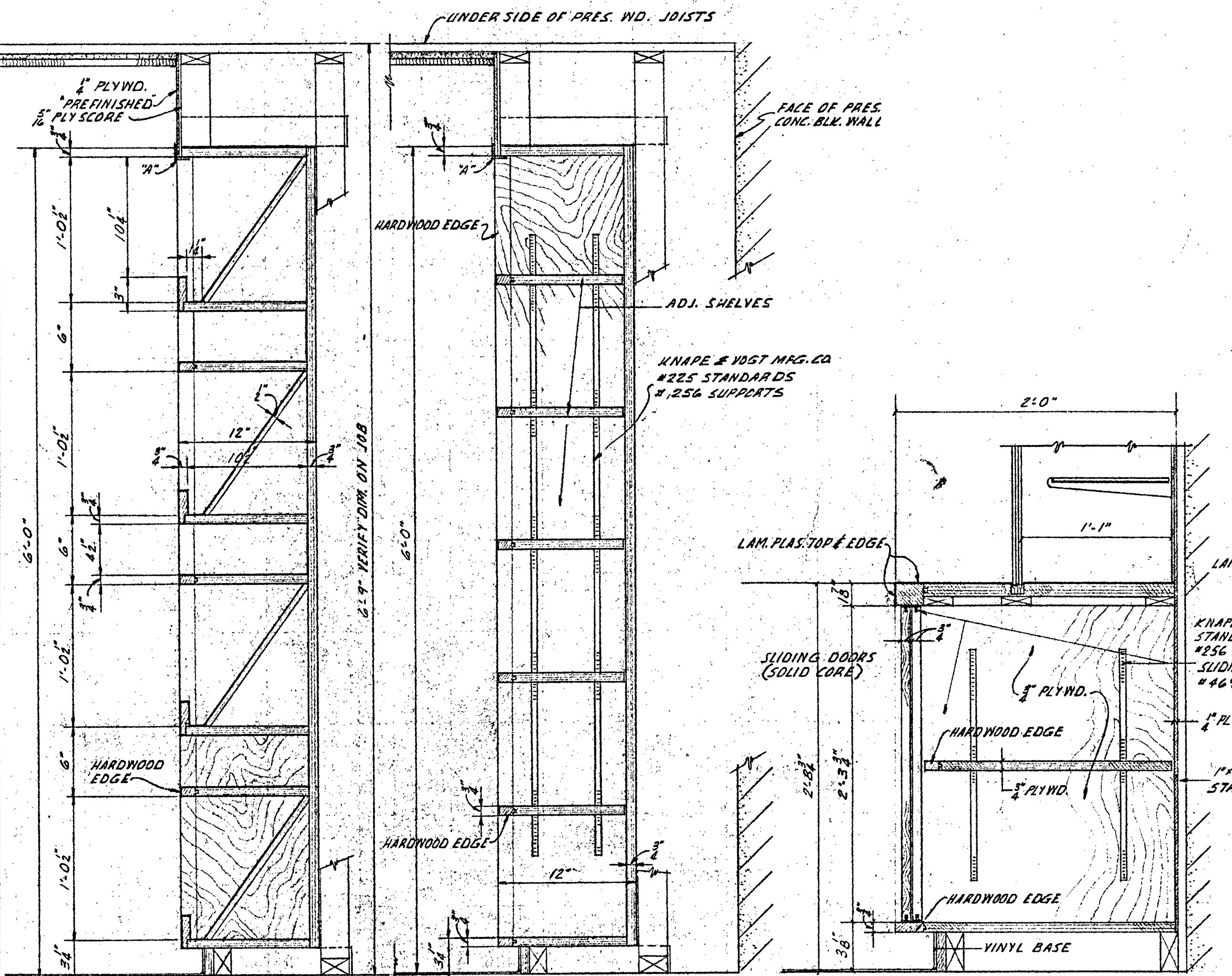
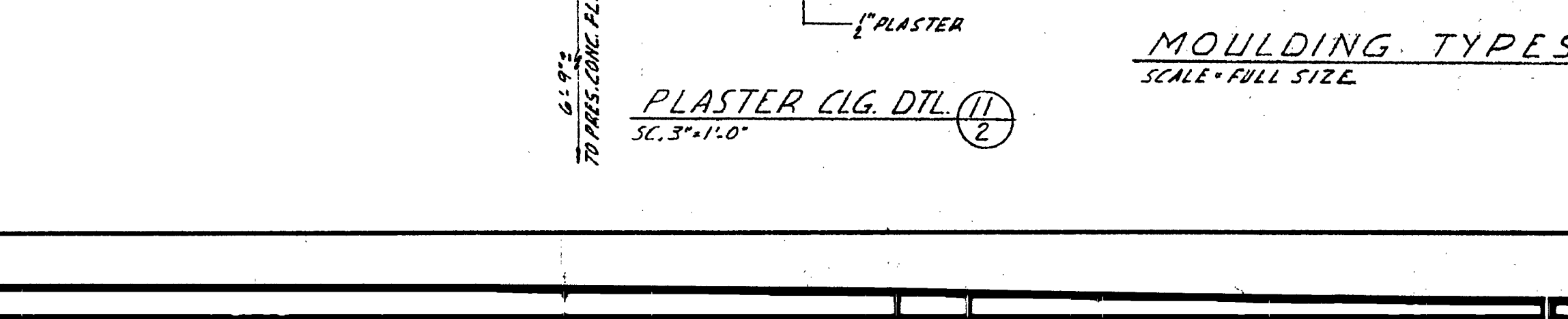
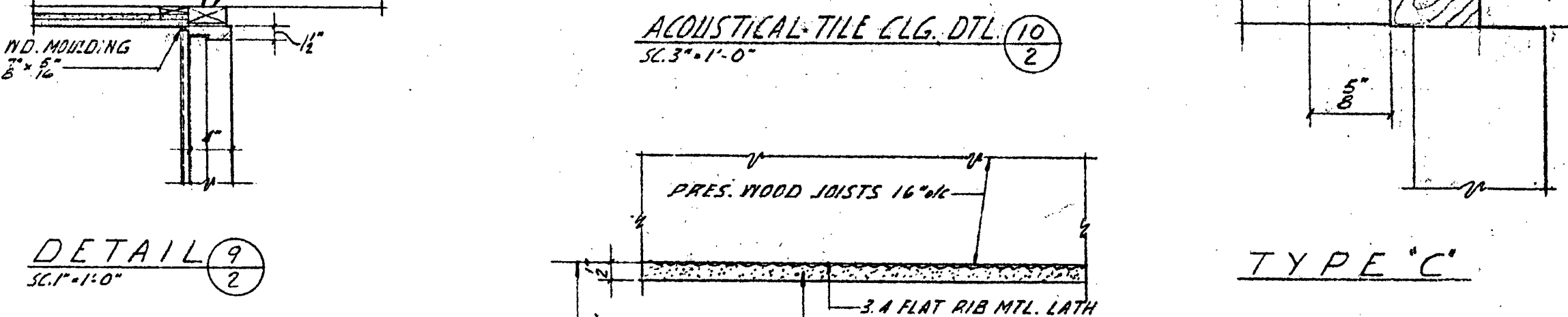
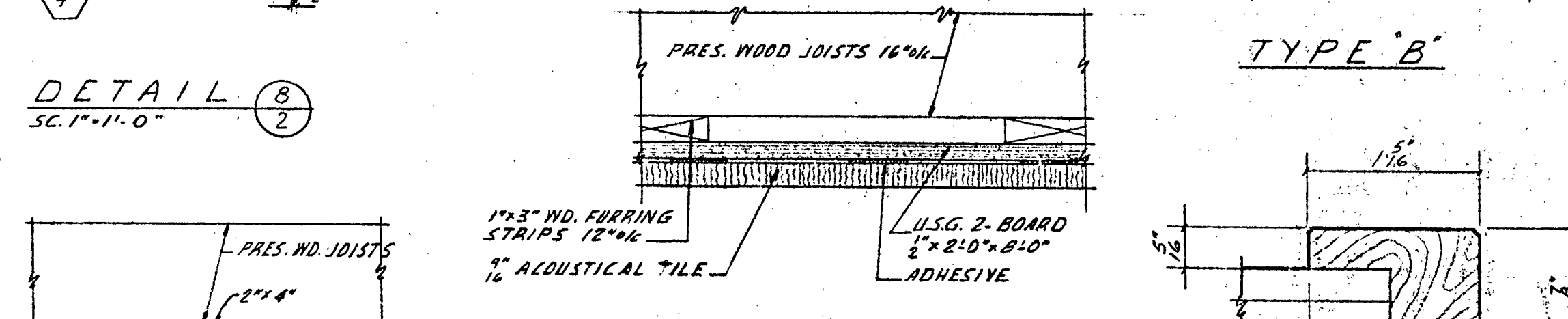
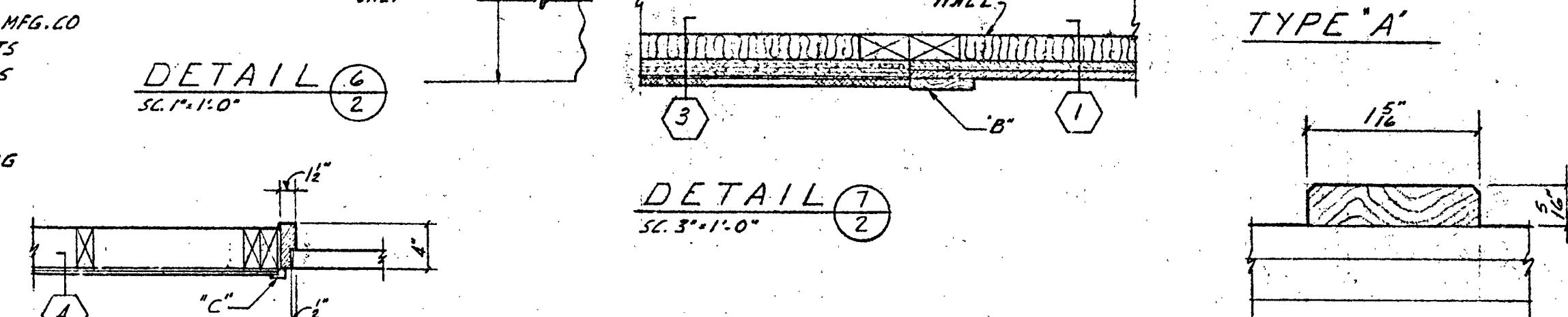
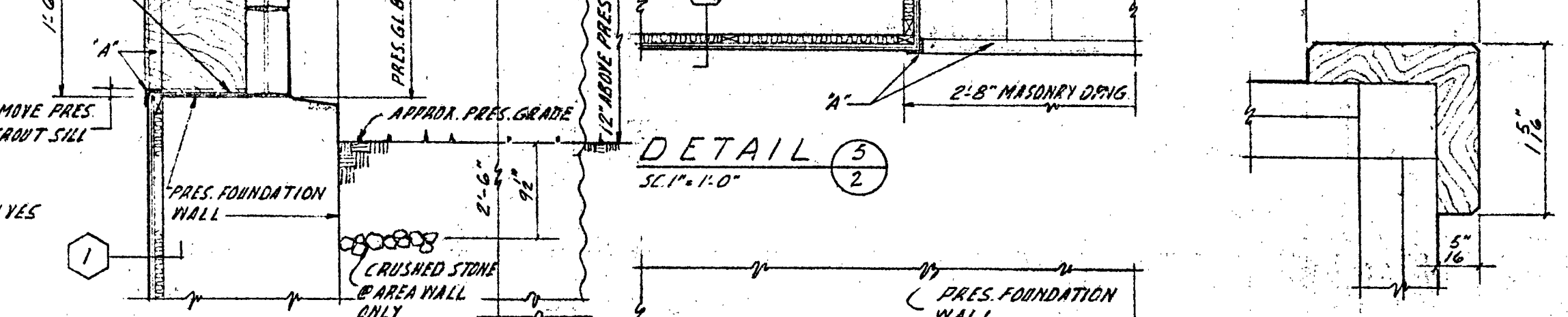
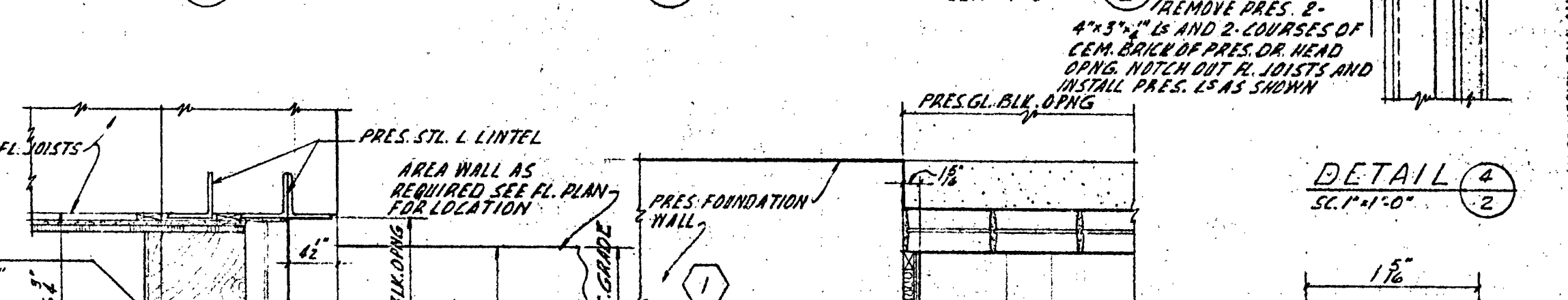
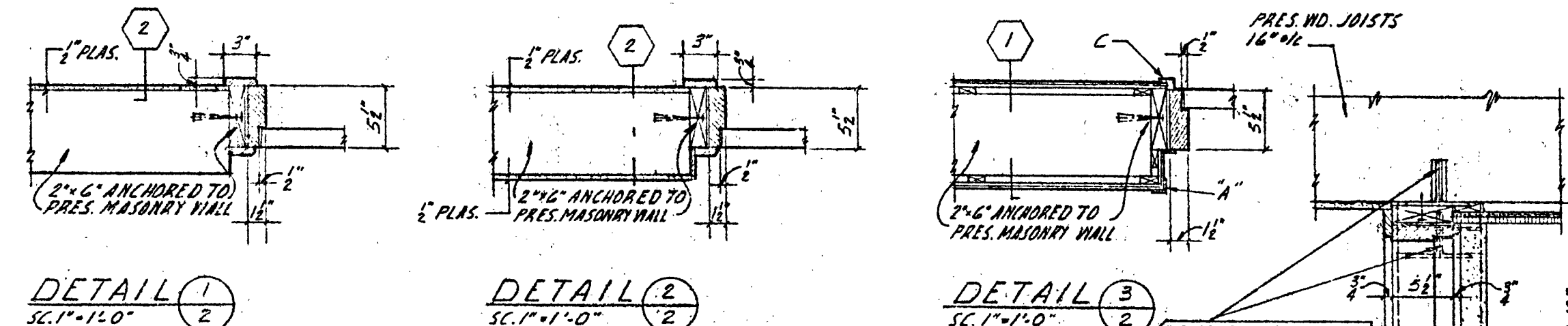
- Hardware --- \$250.00
- Carpeting --- 55 sq. yds. @ \$22.00/ sq. yd.

Finishing:

- Ceilings and Walls: 3 coats flat Latex paint
- All Woodwork: P & L Tonic Stain & 2 coats of Varnish.
- Vinyl Fabric: Victor "Linen" or "Tipperary"
- Exterior: P & L House Paint ext. Primer & 2 coats P & L Verdura Trim and Shutter Finish.
- Kitchen Equipment:
 - Freezer: Koch AF-2 with tray slides
 - Refrigeration: Koch A-2 with tray slides
 - Range: Vulcan 260-L59 Stainless steel
 - Canopy: 18 ga; 3 oz 18-8 #4 finish inside & out; to be of size & shape as shown on the drawings with filter arrangement as ceiling beam permits. Coordinate exhaust opening with ventilating contractor.
 - Stainless Steel Tops: to be 18 ga. 18-8, 3 oz #4 finish paper covered mounted on 3/4 water proof plywood and glued with waterproof glue. Tops are to be one piece welded integrally with no field joints.
 - Cabinets: Geneva Impasto, color to be selected by Architect. All units by number as shown on the drawings.
 - Center Island Wood top, 2 1/2 maple by Appleton Wood Products.

DOOR SCHEDULE

DOOR NUMBER	DOOR SIZE	DOOR TYPE	DOOR MATERIAL	DOOR GRILLE	JAMB TYPE	HEAD TYPE	JAMB MATERIAL	REMOVE PRES. ROUGH BACK JAMB HEAD & PLYND DR. MARKED	REMARKS
1	2'-10" x 6'-6 1/2" x 1 3/8"	WD. FLUSH			(2)	(2)	WOOD	(C)	
2	2'-8" x 6'-6 1/2" x 1 3/8"	WD. FLUSH			(2)	(2)	WOOD		
3	2'-10" x 6'-6 1/2" x 1 3/8"	WD. FLUSH		8" x 18"	(2)	(2)	WOOD	(C)	
4	2'-10" x 6'-6 1/2" x 1 3/8"	WD. FLUSH	ALL WOOD FLUSH VENEERED DOORS	8" x 18"	(2)	(2)	WOOD	(C)	
5	2'-2" x 8'-6 1/2" x 1 3/8"	WD. FLUSH	SHALL BE WELDWOOD STAYSTRATE VENEER		(2)	(2)	WOOD		
6	2'-2" x 8'-6 1/2" x 1 3/8"	WD. FLUSH	DOORS W/ WELDWOOD AS MANUFACTURED BY U.S. PLYWOOD CORP.		(2)	(2)	WOOD		
7	2'-10" x 6'-6 1/2" x 1 3/8"	WD. FLUSH			(2)	(2)	WOOD	PRES. ROUGH DR. BACK TO REMAIN	NEW DR. TRIM - ONLY
8	2'-10" x 6'-6 1/2" x 1 3/8"	WD. FLUSH			(2)	(2)	WOOD	PRES. ROUGH DR. BACK TO REMAIN	NEW DR. TRIM - ONLY
9	2'-10" x 6'-6 1/2" x 1 3/8"	WD. FLUSH		8" x 18"	(2)	(2)	WOOD	(C)	
10	REUSE PRES. DOOR				(2)	(2)	WOOD	PRES. ROUGH DR. BACK TO REMAIN	NEW DR. DR. TRIM - ONLY
11	2'-10" x 6'-6 1/2" x 1 3/8"	WD. FLUSH			(2)	(2)	WOOD	(C)	
12	2'-6" x 6'-6 1/2" x 1 3/8"	WD. FLUSH		6" x 6"	(2)	(2)	WOOD		



MAGAZINE CASE SECT. 15 SC. 1/2" x 1'-0" 2

BOOK CASE SECT. 14 SC. 1/2" x 1'-0" 2

CABINET SECT. 13 DINING 2 SC. 1/2" x 1'-0" 2

CABINET SECT. 12 DINING 2 SC. 1/2" x 1'-0" 2

DARBY, BOGNER & ASSOCIATES, INC.
ARCHITECTS
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WISCONSIN

PILES XI HIGH SCHOOL FACULTY RESIDENCE
145 SOUTH 7024 STREET
MILWAUKEE, WISCONSIN

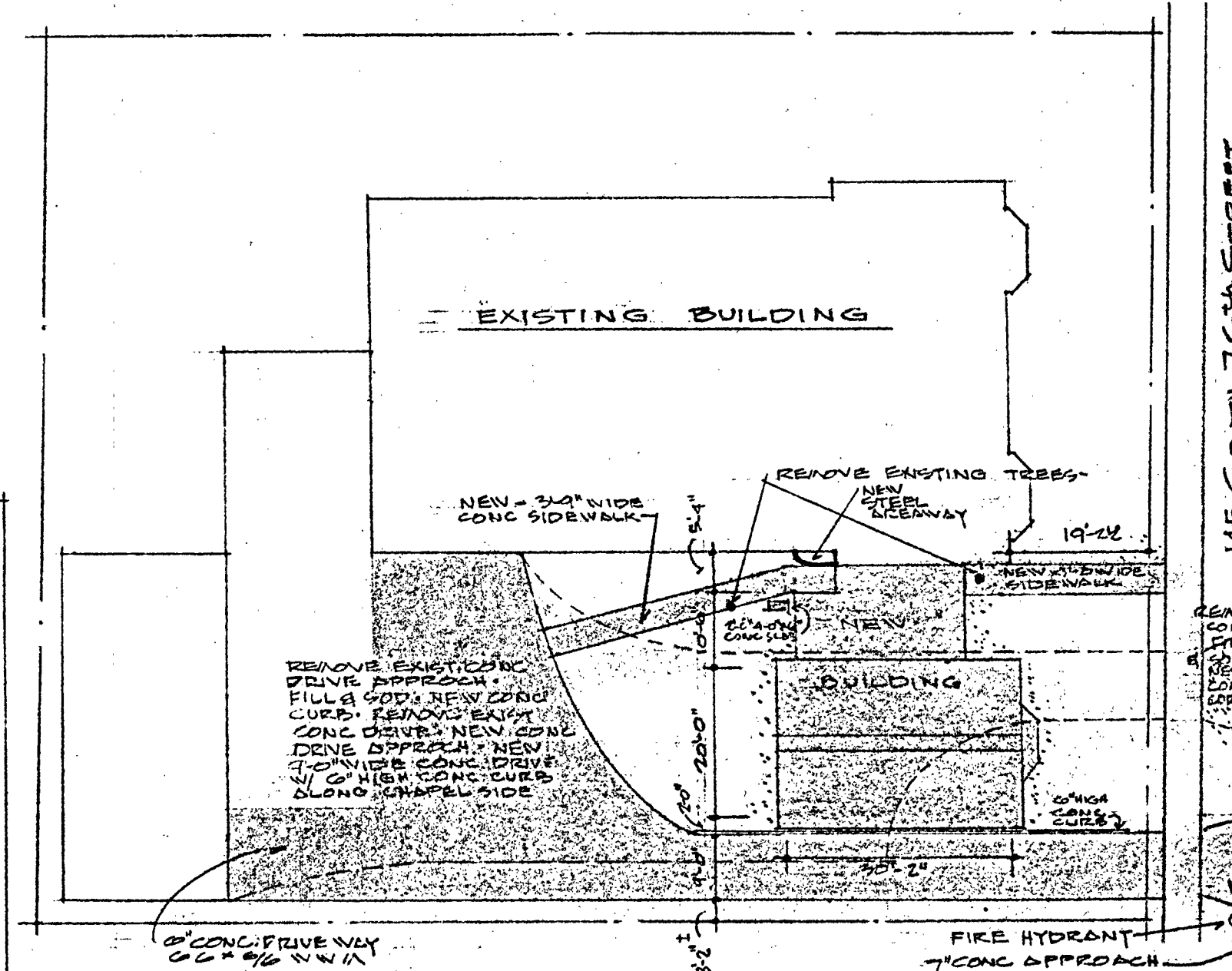
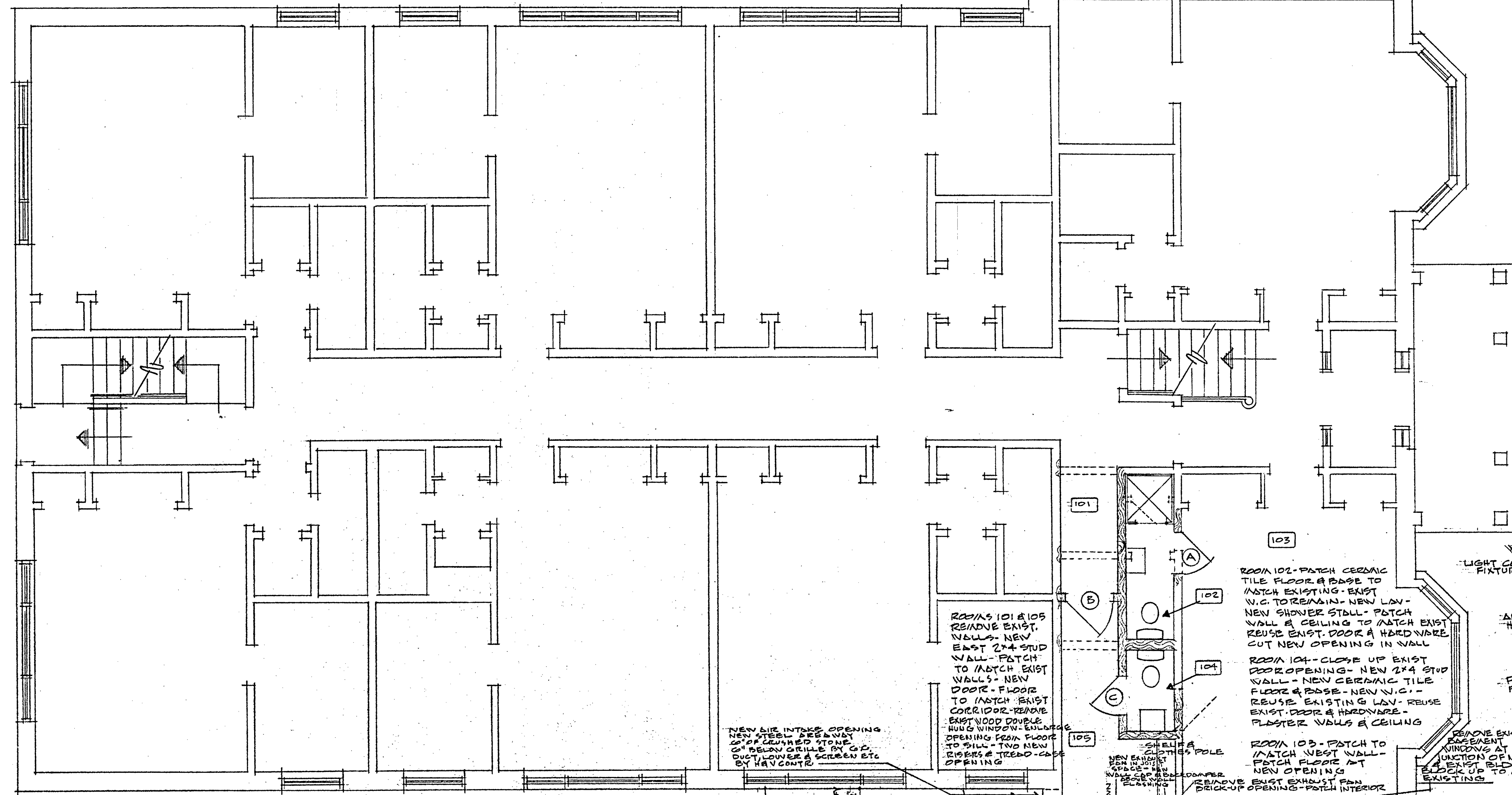
REVISIONS TO BASEMENT
DOOR SCHEDULE, DETAILS, SECTIONS

JOB NO. 6408

SHEET NO. 2 of 5

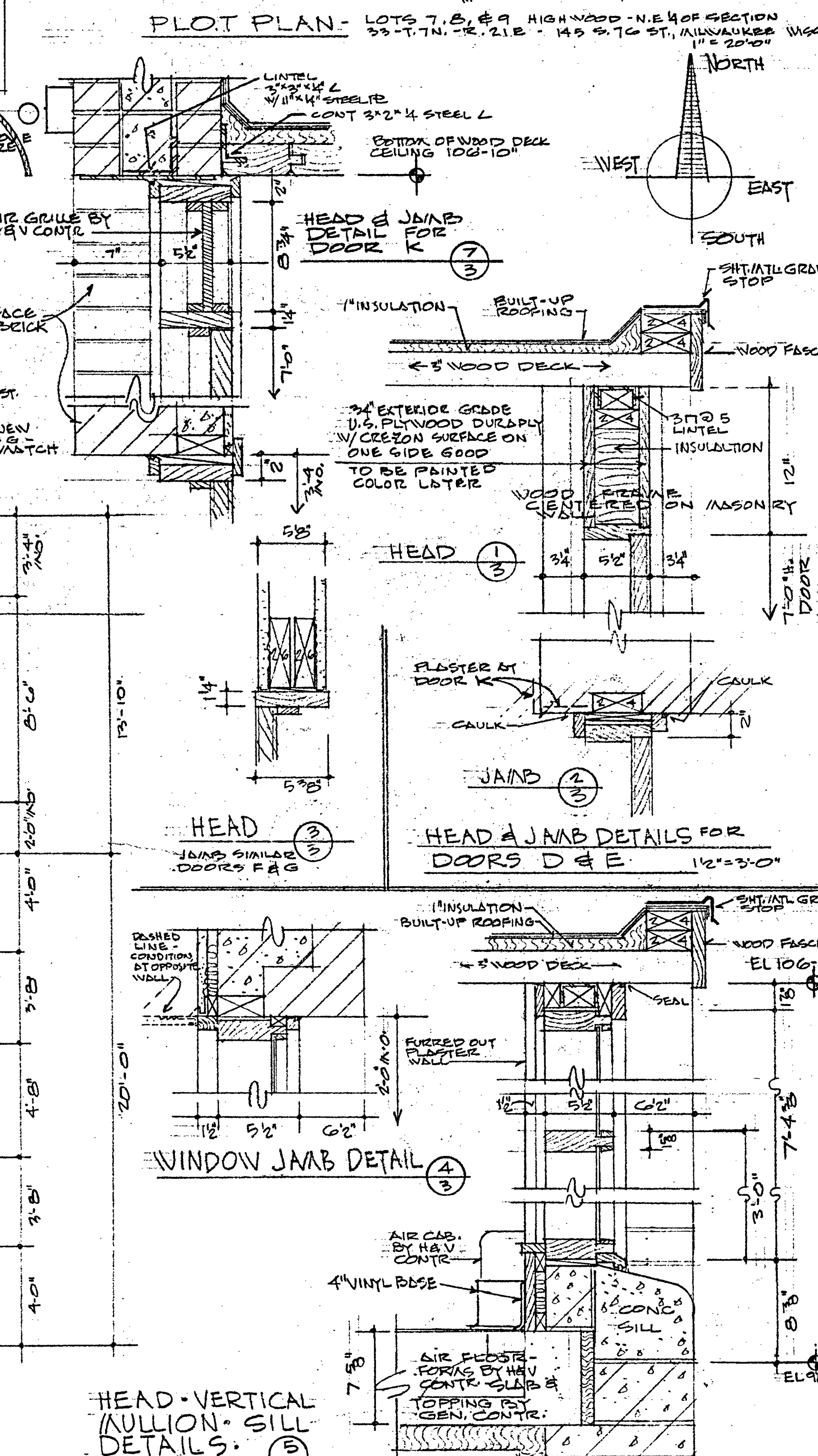
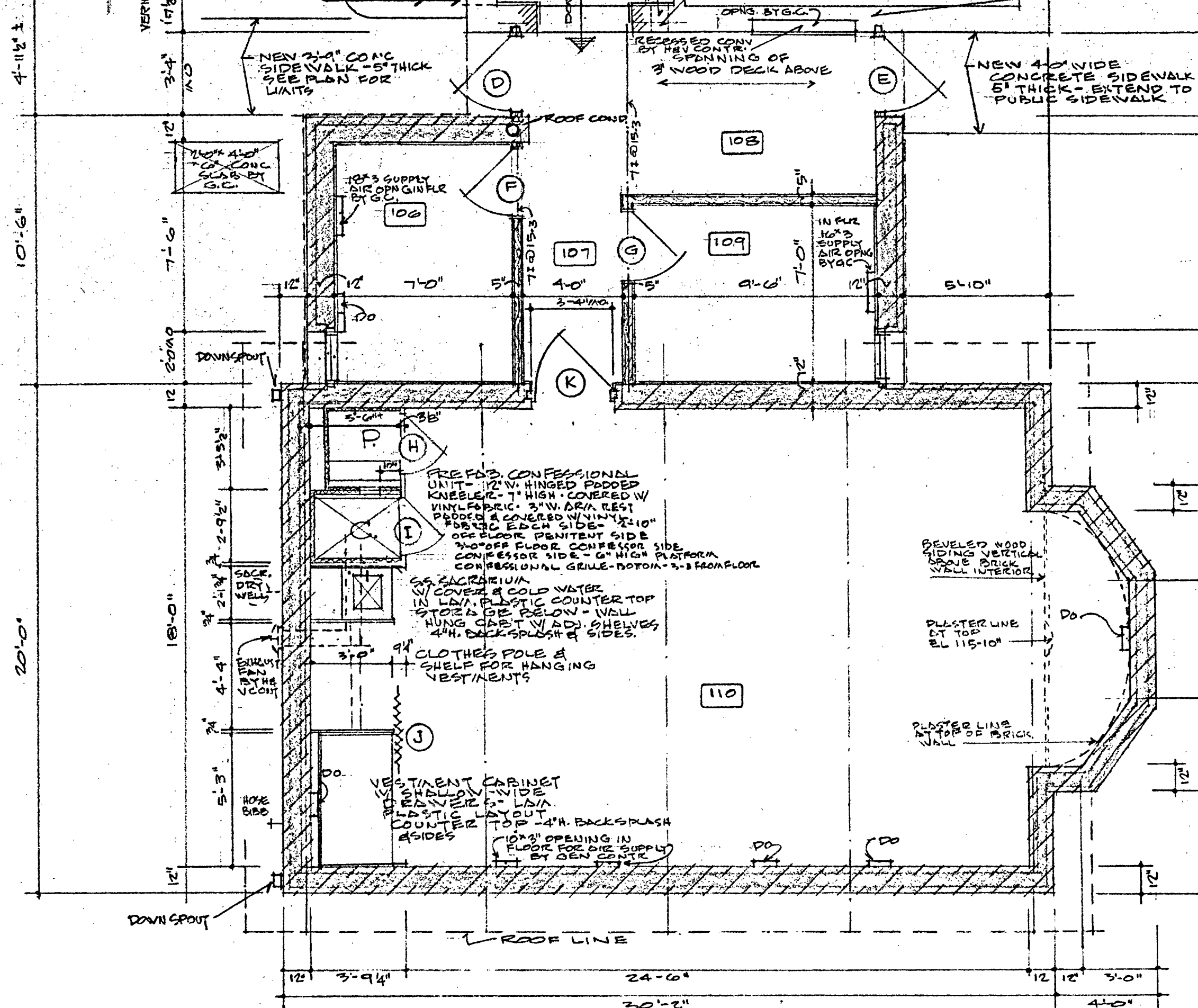
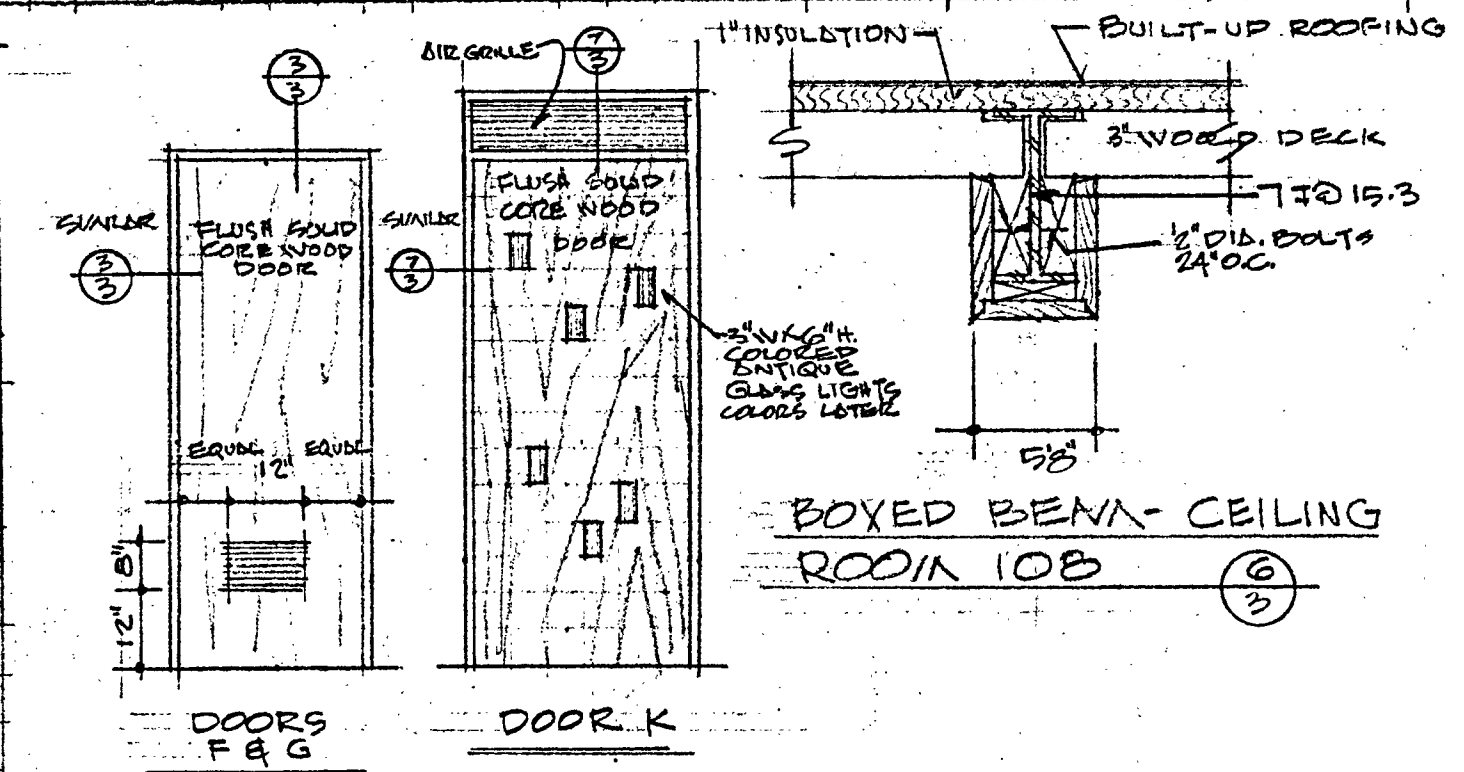
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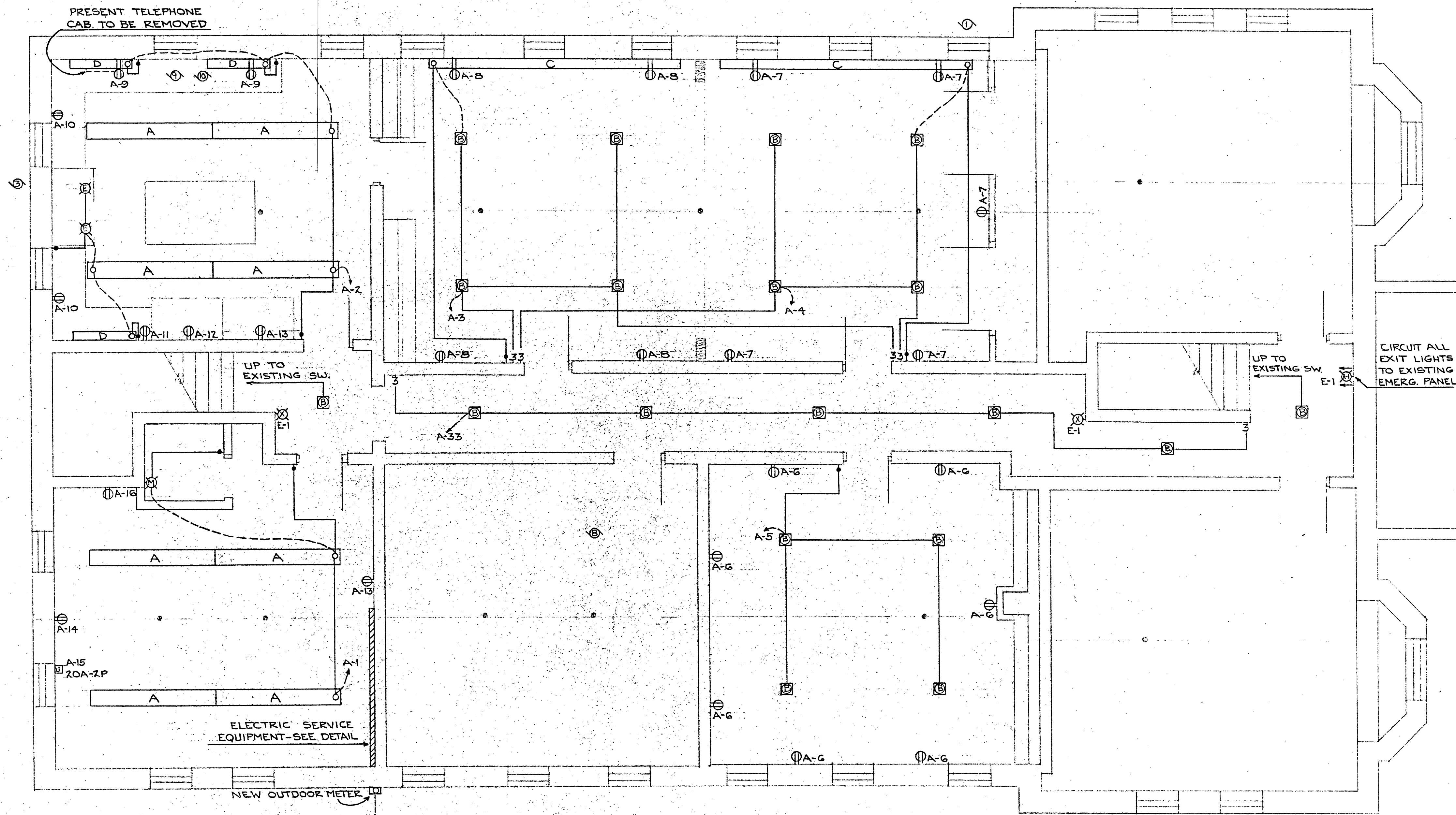
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ROOM NUMBER	ROOM NAME	ROOM FINISH SCHEDULE										REMARKS
		FLOOR	BASE	WAINSCOT	WALL	CEILING						
101	PASSAGE											
102	BATH ROOM											
103	EXISTING ROOM											
104	TOILET ROOM											
105	PASSAGE											
106	VISITING RM											
107	PASSAGE											
108	VESTIBULE											
109	VISITING RM											
110	CHapel	CARPET										

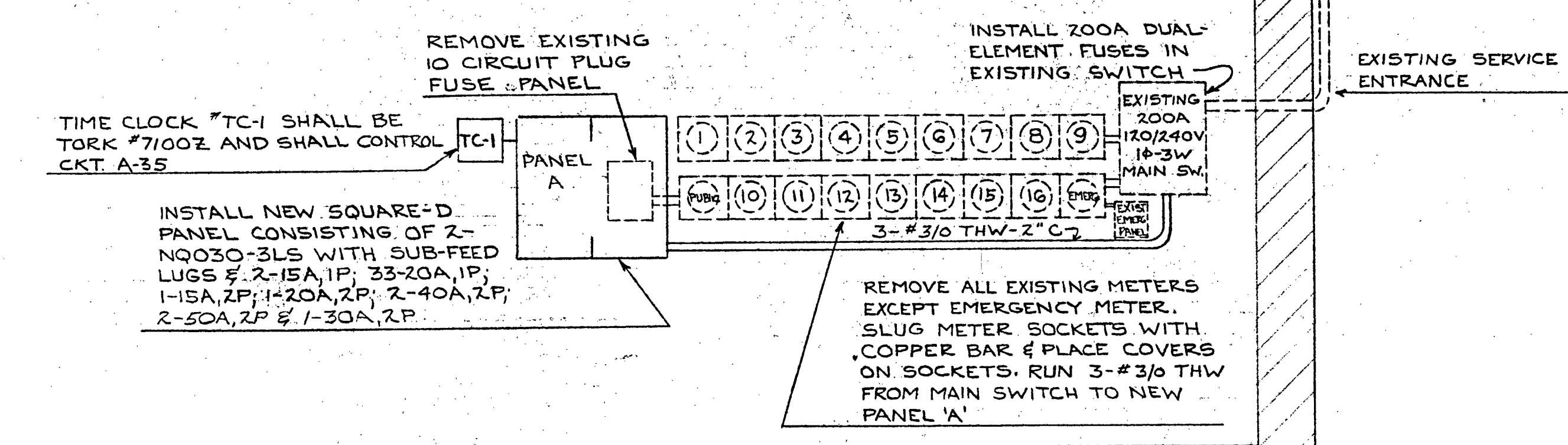
DOOR MARK	HARDWARE	DOOR SCHEDULE									
		DOOR SIZE	WOOD FRAME	PAINT	STAIN	WAINSCOT					
A	DOOR HNT	2'-4" 6'-8"	0	0	0	0	0	0	0	0	0
B	DOOR HNT	2'-4" 6'-8"	0	0	0	0	0	0	0	0	0
C	DOOR HNT	2'-4" 6'-8"	0	0	0	0	0	0	0	0	0
D	DOOR HNT	2'-4" 6'-8"	0	0	0	0	0	0	0	0	0
E	DOOR HNT	2'-4" 6'-8"	0	0	0	0	0	0	0	0	0
F	DOOR HNT	2'-4" 6'-8"	0	0	0	0	0	0	0	0	0
G	DOOR HNT	2'-4" 6'-8"	0	0	0	0	0	0	0	0	0
H	DOOR HNT	2'-4" 6'-8"	0	0	0	0	0	0	0	0	0
I	DOOR HNT	2'-4" 6'-8"	0	0	0	0	0	0	0	0	0
J	DOOR HNT	2'-4" 6'-8"	0	0	0	0	0	0	0	0	0
K	DOOR HNT	2'-4" 6'-8"	0	0	0	0	0	0	0	0	0



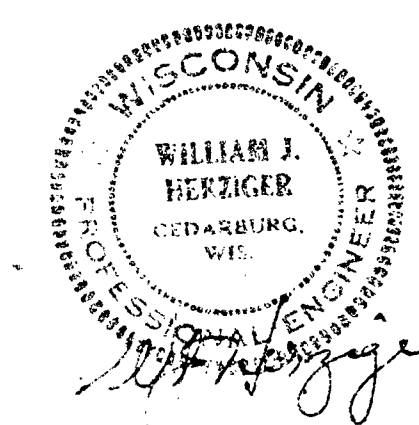


SYMBOLS

- FLUORESCENT FIXTURE
- RECESSED INCANDESCENT FIXTURES
- INCANDESCENT FIXTURE
- EXISTING INCANDESCENT FIXTURE
- SINGLE POLE SWITCH
- SWITCH & PILOT LIGHT
- SWITCH & RECEPTACLE IN SAME OUTLET BOX
- TWO POLE SWITCH
- THREE WAY SWITCH
- FOUR WAY SWITCH
- DUPLEX GROUNDED RECEPTACLE
- WEATHER PROOF
- MOTOR OR SPECIAL OUTLET
- SWITCHED CIRCUIT
- BRANCHED CIRCUIT
- SSU SWITCH AND FUSTAT HOLDER
- JUNCTION BOX
- KNEEL SWITCH



SERVICE EQUIPMENT DETAIL
NO SCALE



APPROVED		DRAWN BY		DATE		BY		DATE		REVISIONS		NO.		DATE		DATE COMPLETED		DATE REBID	
DARBY, BOGNER & ASSOCIATES, INC. ARCHITECTS WEST ALLIS 19, WISCONSIN										PIUS XI HIGH SCHOOL FACULTY RESIDENCE 145 SOUTH 76TH STREET MILWAUKEE, WISCONSIN									
FACULTY RESIDENCE ELECTRICAL PLAN										JOB NO. 6408									
SHEET NO. 1										DESIGN PRODUCTS CO. 900-241									

FIXTURE SCHEDULE							
TYPE	LAMPS	DESCRIPTION	MAKE	CAT. NO.	GLASS OR SHIELDING	FINISH	MOUNTING
A	4 F40CW	SURFACE UNIT	LITELCRAFT	31006	ACRYLIC	BAKED WHITE EN.	SURFACE CEILING
B	1 150A	RECESSED DOWNLITE	do	E486-57	DROP OPAL	do	RECESSED 5 1/2"
C	2 F96PG10CW	WALNUT FACIA UNIT	LAM	FE233X16/16	WOOD FACIA	WALNUT	MOUNT JUST BELOW WINDOW
D	2 F40CW	UNDER CABINET UNIT	ALYCO	1245	PLASTIC	BAKED WHITE EN.	UNDER CABINET
E	1 100A	VAPORTIGHT UNIT	APPLETON	VXHA1050	GLASS	ALUMINUM	IN HOOD
F	1 100A	WALL BRACKET	PRESCOLITE	4040	OPAL	MATTE BLACK	WALL SURFACE
G	1 150A	do	do	4739	do	do	do
H	2 F96PG10CW F96PG10CW	MAPLE FACIA UNIT	LAM	FE233X24/28	WOOD FACIA	MAPLE	SEE ARCH. DETAIL
K	1 15A	STEP LIGHT	PRESCOLITE	AL-4	LOUVER	ALUMINUM	WALL REC. 3 1/2"
L	1 75A	RECESSED DOWNLITE	do	488-6100	ALBA-LITE	SATIN CHROME	REC. 4"
M	2 60A	WALL BRACKET	LIGHTOWER	6349	OPAL	do	WALL SURFACE
N		CONFESSIONAL SIGNAL LITE	MANNING	CB1-125	RED GLASS	SATIN GOLD	REC. SWITCH BOX AND LAMP INCLUDED
P	1 F40WW	STRIP LIGHT	NORTHERNLITE	RU-14BR4	do	BAKED WHITE EN.	MOUNT IN CLOSET AS DIRECTED
R	2 F40WW	do	do	RQ-24BR4	do	do	SEE NOTE #1
X	2 60A	EXIT G' RED LETTERS	PRESCOLITE	SN-55-A-5	FABRIGLASS	OYSTER WHITE EN.	SURFACE WALL
X-1	2 60A	do	do	STN-55-LR-A5	do	do	do
X-2	2 60A	do	do	WT-55-O-A5	do	do	do
Y	1 150A	POST LIGHT UNIT	SYLVANIA	PT-75-106	PLASTIC	CLEAR ANODIZED	SEE NOTE #2
Z	2 F40T12CW/TS	STRIP LIGHT	NORTHERNLITE	RU-14R4	do	BAKED WHITE EN.	24" R. RECESSED

NOTE #1: TYPE 'R' FIXTURES ARE 4'-0" LONG AND ARE MOUNTED BEHIND VERTICAL SIDING VERTICALLY IN SOFFET. SEE ARCHITECTURAL DETAIL.

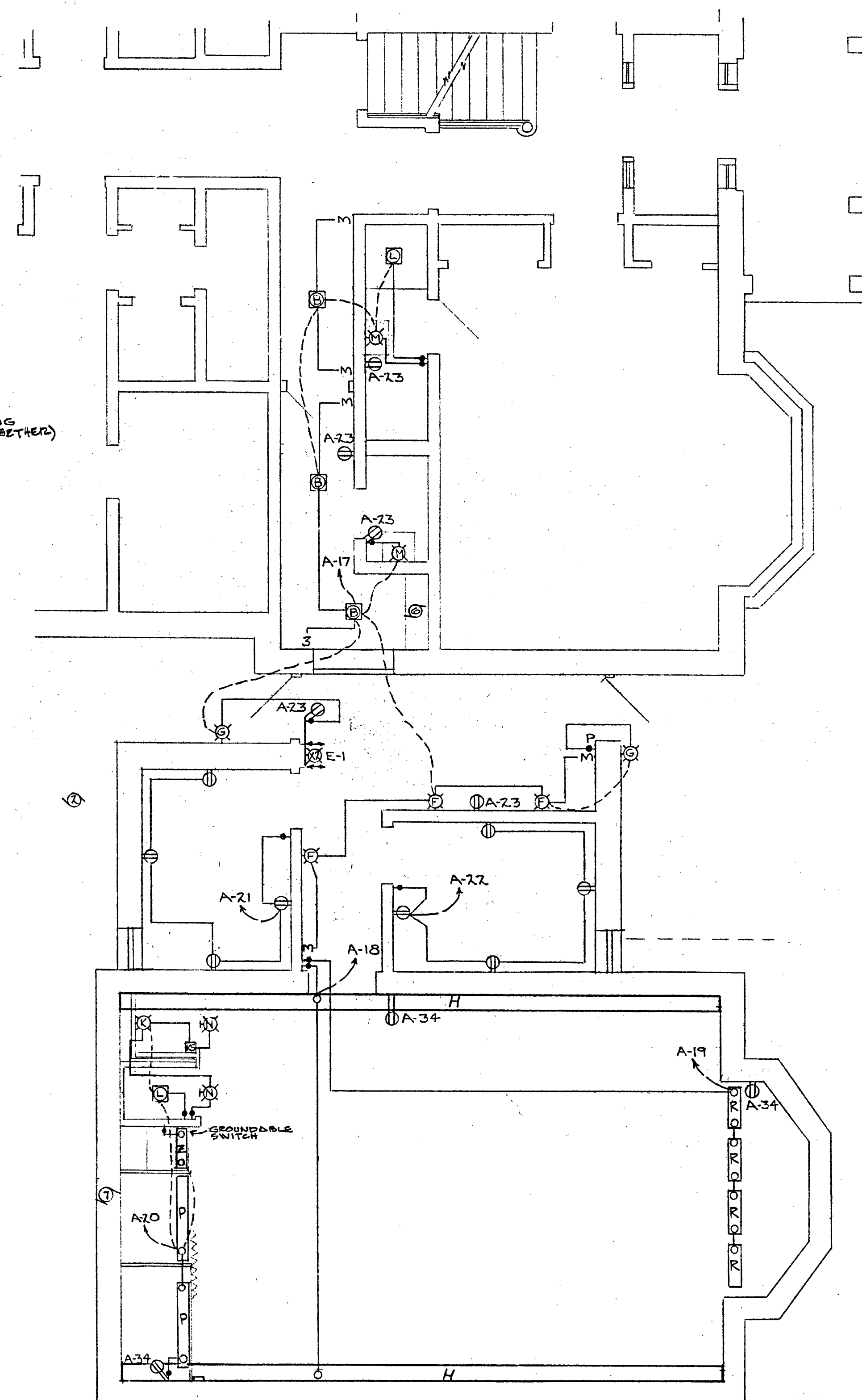
NOTE #2: FURNISH & INSTALL TYPE 'Y' FIXTURE COMPLETE WITH SYLVANIA 76" HIGH POST & 12" DIA. X 3'-0" DEEP CONCRETE BASE.

MOTOR SCHEDULE									
MOTOR NO.	DESCRIPTION	KW	HP	VOLT	PHASE	CKT NO.	BKR OR FUSE POLE AMP	EQUIPMENT TO FURNISH	LOCATION
1	COMPRESSOR-CONDENSER UNIT #1	1/4	3	230	1	A-24	2 40		OUTSIDE
2	do do UNIT #2	1/8	4	230	1	A-25	2 50		OUTSIDE
3	UTILITY FAN	1/2	230	1	A-26	2 15			OUTSIDE
4	AIR HANDLING UNIT #1	3	230	1	A-27	2 40			STORAGE
5	do do UNIT #2	4	230	1	A-28	2 50			STORAGE
6	VENTILATOR FAN #1	1/15	115	1	A-29	1 15			CEILING
7	VENTILATOR FAN #2	1/20	115	1	A-29	1 15			WALL
8	CIRCULATING PUMP	1/6	115	1	A-30	1 15			BOILER RM
9	DISPOSAL	1/2	115	1	A-31	1 20			KITCHEN
10	DISHWASHER	4	230	1	A-32	2 30			KITCHEN

ELECTRICAL SPECIFICATIONS

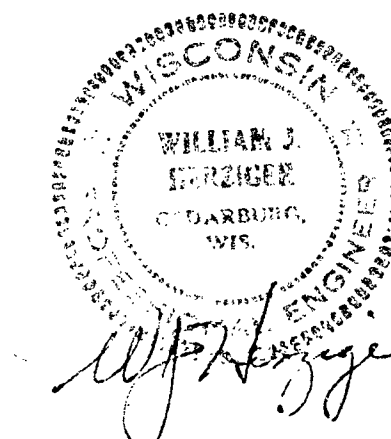
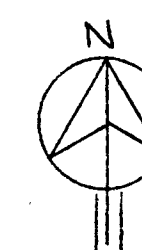
- FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES TO CONSTRUCT AND INSTALL A COMPLETE ELECTRICAL SYSTEM AS SHOWN OR IMPLIED ON THE PLAN OR SPECIFIED HEREIN.
- NOTIFY OTHER CONTRACTORS TO ARRANGE NECESSARY CLEARANCES AND ACCESS OPENINGS FOR ELECTRICAL EQUIPMENT.
- COMPLY WITH RULES AND REGULATIONS OF THE LATEST EDITION OF NATIONAL ELECTRICAL CODE, WISCONSIN STATE ELECTRICAL CODE, LOCAL CODE, ELECTRIC UTILITY AND ALL OTHER BOARD HAVING JURISDICTION OVER THE ELECTRICAL INSTALLATION.
- OBTAIN ALL NECESSARY PERMITS FOR ELECTRICAL WORK AND PAY ALL REQUIRED FEES.
- USE MATERIALS AND EQUIPMENT FOR WHICH THERE ARE NATIONAL BOARD OF FIRE UNDERWRITERS (UL) LISTING AND WHICH ARE SO LABELED ALL MATERIALS SHALL BE NEW AND UNUSED AND BE UNIFORM IN TYPE AND MANUFACTURE.
- PROVIDE ALL CUTTING AND PATCHING NECESSARY FOR INSTALLATION OF ELECTRICAL WORK.
- REPAIR, REMODEL, REBUILD, REQUIRE AND MAKE GOOD ALL DEFECTIVE LABOR AND MATERIALS THAT MAY DEVELOP WITHIN ONE YEAR AFTER COMPLETION AND FINAL ACCEPTANCE OF WORK. TEMPORARY SERVICE FOR CONSTRUCTION SHALL BE TAKEN FROM EXISTING SERVICE EQUIPMENT. OWNER SHALL PAY ENERGY CHARGES.
- GROUND ELECTRICAL SYSTEM AS REQUIRED BY CODE AND LOCAL ORDINANCES.
- ALL CONDUIT TO BE GALVANIZED OR SHERARDIZED RIGID HEAVY WALL SHALL BE USED FOR ALL CONDUIT 1 1/2" OR LARGER, EXPOSED CONDUIT SUBJECT TO MECHANICAL INJURY, CONDUIT INSTALLED UNDERGROUND OR EXPOSED OUTDOORS, CONDUIT IN CAST SLABS OR POURED CONSTRUCTION BELOW GRADE (E.M.T.) (THIN WALL CONDUIT) MAY BE USED FOR ALL OTHER BRANCH AND AUXILIARY SYSTEM WIRING. SIZE CONDUIT ACCORDING TO CODE OR PLAN - WHICHEVER IS LARGER. CONDUITS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET. ALL CONDUIT TO BE CONCEALED EXCEPT WHERE IMPRACTICAL OR IMPOSSIBLE AND UPON APPROVAL OF ARCHITECT. E.M.T. CONNECTORS SHALL BE MIDWEST IG50 THRU IG55 SERIES INSULATED THROAT TYPE RUNNING THREADS NOT PERMITTED, WHEN REQUIRED USE MANUFACTURED CONDUIT UNIONS.
- CONCEALED CEILING LIGHTING OUTLET BOXES SHALL BE STEEL CITY 4" SQUARE VARIETY. MOUNT BOXES SECURELY TO SUPPORT WEIGHT OF FIXTURE. FOR SINGLE OR DOUBLE OUTLETS IN PLASTER OR CONCRETE WALLS USE STEEL CITY 4" SQUARE BOXES FITTED WITH SQUARE NUT DEVICE COVERS. IN UNPLASTERED BRICK OR BLOCK WALLS USE STEEL CITY MASONARY BOXES.
- DO ALL LINE VOLTAGE WIRING REQUIRED IN CONNECTION WITH HEATING, VENTILATING AND PLUMBING EQUIPMENT FURNISHED BY OTHERS. FURNISH DISCONNECT SWITCHES TO CONFORM WITH CODE REQUIREMENTS.
- REMOVE OR RELOCATED AS REQUIRED BY GENERAL CONSTRUCTION ANY CONDUIT, WIRE, BOXES, FIXTURES ETC. THAT OCCUR IN CEILINGS, WALLS OR FLOORS THAT ARE BEING REMODELED OR REMOVED EVEN IF NOT SPECIFICALLY SHOWN ON PLANS. SUCH ITEM SHALL BE CONSIDERED INCIDENTAL AND SHALL BE DONE WITHOUT EXTRA COST TO OWNER. REMOVE ALL FIXTURES, DEVICES, PANELS, SURFACE BOXES, SURFACE RACEWAYS, WIRING, ETC NOT BEING REUSED. CAP OLD OUTLETS AS REQUIRED. ALL ITEMS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR. KEEP ALL EXISTING ELECTRIC CIRCUITS, TELEPHONE SERVICE, CLOCKS, SIGNAL, SOUND, ETC., SYSTEMS IN OPERATION DURING CONSTRUCTION AS REQUIRED BY THE OWNER.

ⓐ A-35
LOCATION
AS PER
ARCHITECT



FIRST FLOOR CHAPEL AREA

SCALE 1/4" = 1'-0"



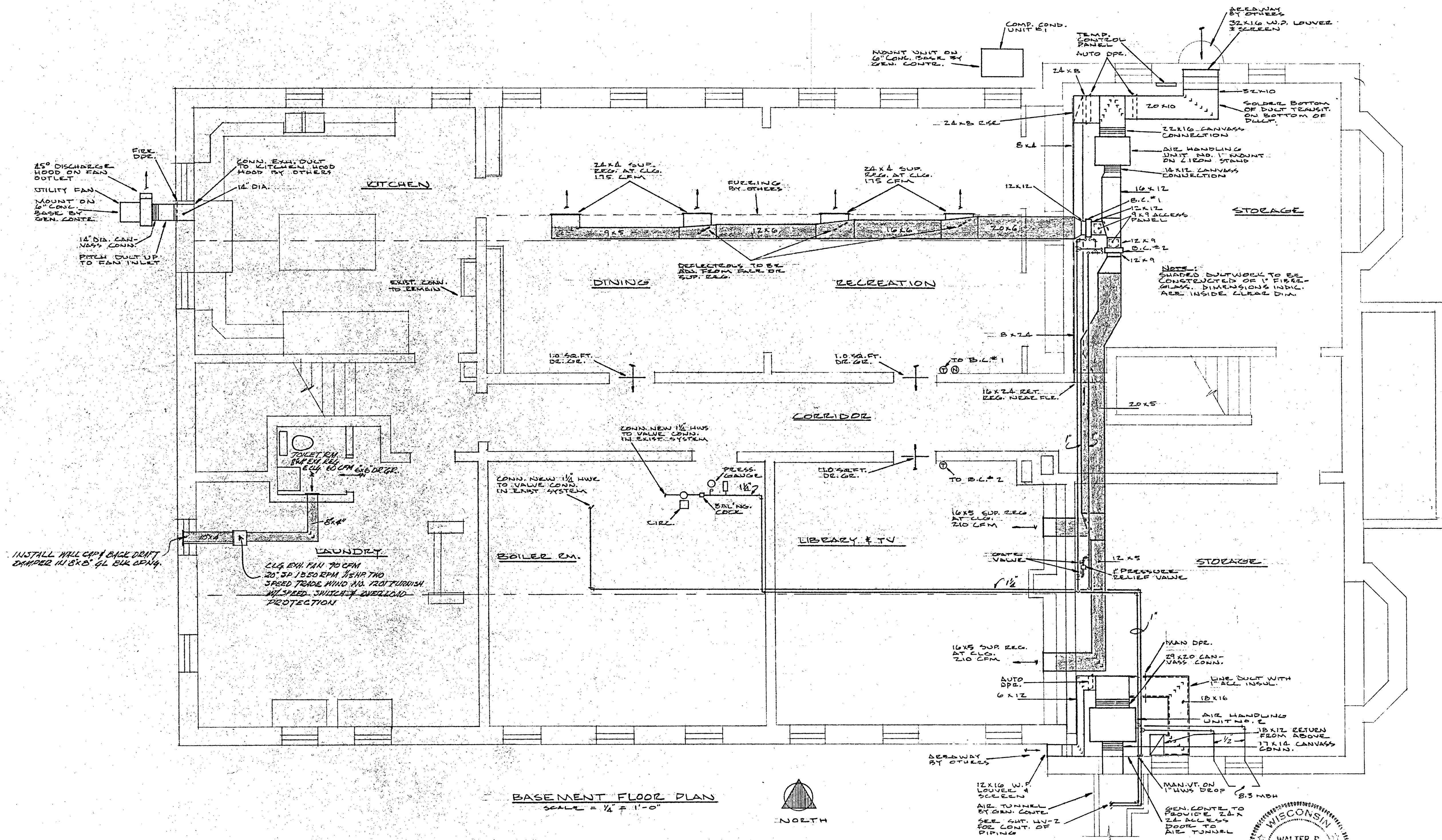
CHAPEL ELECTRICAL PLAN & SCHEDULES	NEW CHAPEL PIUS XI HIGH SCHOOL FACULTY RESIDENCE 145 SOUTH 76th ST. MILWAUKEE, WISCONSIN	DARBY, BOGNER & ASSOCIATES, INC. ENGINEERS ARCHITECTS WEST ALLIS 19.	APPROVED DRAWN BY CHECKED BY DATE COMPLETED 5/7/65
	JOB NO. 6408	SHEET NO. F 2	REVISIONS ISSUED FOR DATE NO.
	DESIGN PRODUCTS CO. 800-2-41		

MOTOR CONTROL SCHEDULE

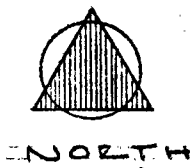
<u>ITEM</u>	<u>CONTROL</u>	<u>STARTER</u>	<u>LOCATION</u>	<u>REMARKS</u>
		<u>TYPE</u>		
AIR HANDLING UNIT NO.1	RELAY	MAG.	NEAR UNIT	SEE A.C.
AIR HANDLING UNIT NO.2	RELAY	MAG.	NEAR UNIT	SEE A.C.
COMPRESSORS (EACH)	RELAY	MAG.	UNIT PANEL	SEE A.C.
CONDENSER FAN (EACH)	RELAY	MAN.	UNIT PANEL	SEE A.C.
UTILITY FAN	ZSP. MAN.	ZSP. MAN.	KITCHEN	RECESS TYPE
CEILING EXHAUST FAN	ZSP. SW.	OVER-LOAD FUSE	EXIST. HALL	RECESS TYPE
WALL EXHAUST FAN	MSPL	MSPL	CONFESSONAL	RECESS TYPE
CIRCULATOR	RELAY	NAN.	EXIST. BOILER RM.	SEE A.C.

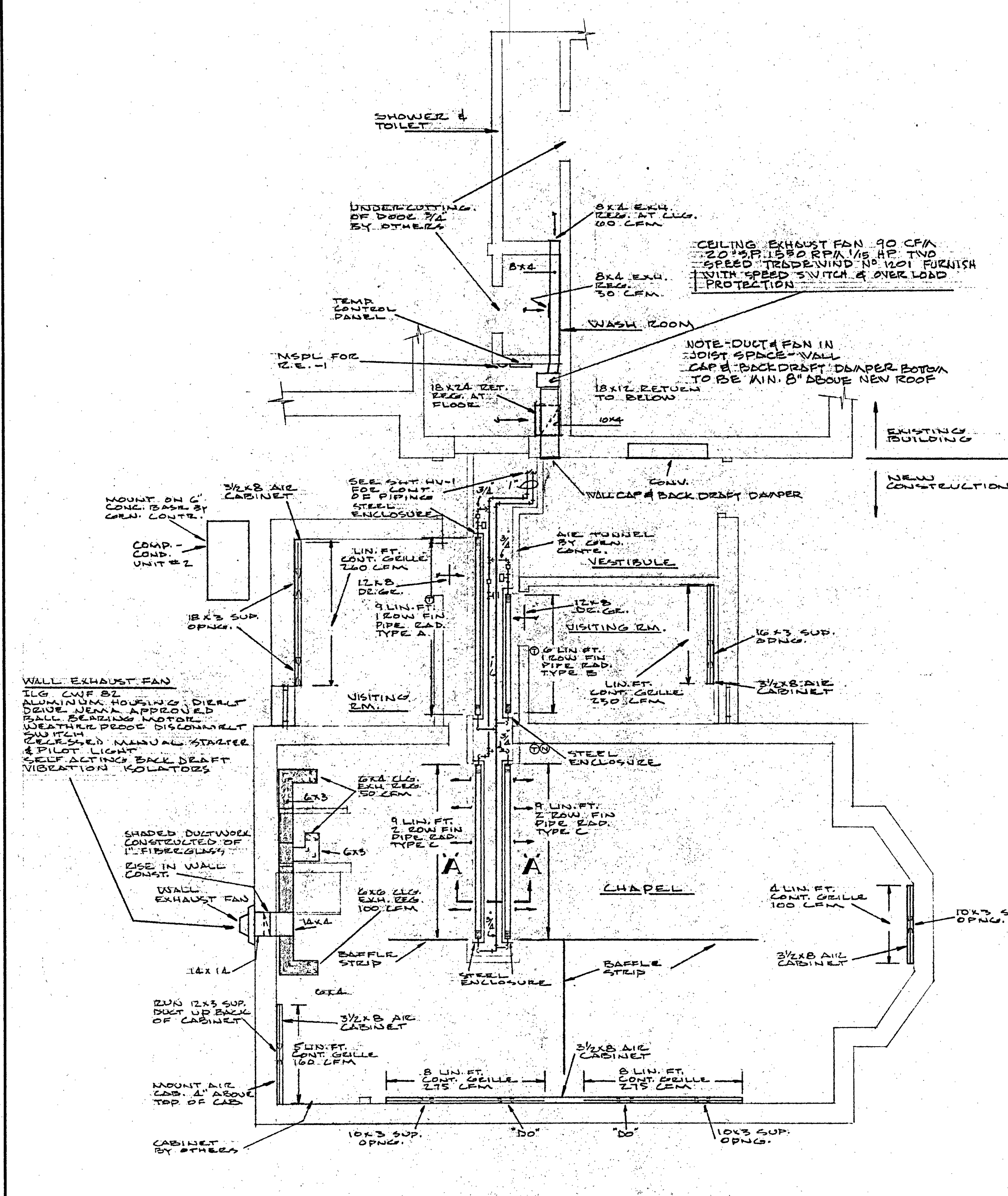
SCHEDULE SYMBOLS

A.C. AUTOMATIC CONTROLS
MSPL MANUAL STARTER & PILOT LIGHT
MAG. MAGNETIC STARTER

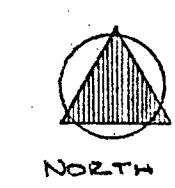


BASEMENT FLOOR PLAN
SCALE = 1/4" = 1'-0"





CHAPEL ADDITION
FLOOR PLAN
SCALE: 1/4" = 1'-0"



SCHEDULES

AIR HANDLING UNITS

FAN SECTION						COOLING SECTION					
UNIT NO.	CFM	OUTLET VELOCITY	ENT. SP. IN. H ₂ O	FAN DIA.	FAN HP	UNIT NO.	CFM	COIL FACE AREA SQ. FT.	MBH	ENT. AIR DB WB	LVG. AIR DB WB
1	1125	485	915 FPM	12"	1/2	1	1125	2.75	33.8	82	66.4
2	1300	290	775 FPM	12"	3/4	2	1300	4.5	41.2	83	66.7

NOTE: UNIT ON ANGLE IRON FLOOR STAND WITH FLOOR TYPE VIBRATION ISOLATORS. ENT. S.P. DEPT. DEPENDS ON FILTERS. FAN V. DRAIN LINE WITH 4" LOOP SEAL FROM DRAIN PAN TO OPEN SITE DRAIN BY PLUMBER.

COMPRESSOR - CONDENSER UNITS

UNIT NO.	BTU/HR CAPACITY	AMB. TEMP.	SECTION TEMP.	REF. TYPE	DISP. LBS./HR	FAN HP	NOM. HP	COND. TEMP.
1	33,800	95°F	45	R-22	97-27	1/4	3	125°F
2	41,200	95°F	45	R-22	125-32.3	1/3	4	125°F

NOTE: MOUNT UNITS ON 6" LONG BASE, BASE BY GEN. CONTR.

CONVECTOR

CABINET LENGTH	CABINET HEIGHT	ELEMENT SIZE	ENT. H ₂ O TEMP. OF	LVG. H ₂ O TEMP. OF	TYPE	RECESS DEPTH	MBH	CFM
48"	32"	48 X 8	170	150	RECESS	8"	8.3	.83

ENT. AIR TEMP. 65°F

FIN PIPE RADIATION

ELEMENT SIZE	FIN TYPE	UNIT NO.	CAPACITY BTU/HR/FT	CFM PER FT.	ENT. AIR TEMP. OF	LVG. AIR TEMP. OF	TOTAL MBH	ENT. H ₂ O TEMP. OF	LVG. H ₂ O TEMP. OF	TOT. LIN. FT. FIN PIPE
1 1/2"	COPPER	A	1600	29	81	94	12.5	170	150	9
1 1/2"	COPPER	B	1600	38	81	94	12.5	170	150	6
1 1/2"	COPPER	C	2800	45	81	94	12.5	170	150	36

WELD ELEMENT FROM 10 GA. SUT. METAL CABINET WHICH SURROUNDS ENTIRE ELEMENT

BOOSTER COILS

UNIT NO.	CFM	COIL FACE AREA SQ. FT.	FINNED LENGTH	ENT. H ₂ O TEMP. OF	LVG. H ₂ O TEMP. OF	ENT. AIR TEMP. OF	LVG. AIR TEMP. OF	MBH	CFM
BC-1	700	1.00	12"	170	150	85	80	36.0	3.6
BC-2	425	.75	12"	170	150	85	79	21.0	2.1

PROVIDE ACCESS DOORS UPSTREAM OF BOOSTER COILS & TEST SLOTS DOWNSTREAM

UTILITY FAN

CFM	RPM	TOT. SP. IN. H ₂ O	FAN TYPE	FAN DIA.	HP	OUTLET VELOCITY	DEVE.	SPEED
1400	475	5/8"	FC	12"	1/2	1065 FPM	8 1/2"	DELT

MOUNT FAN ON 6" LONG. BASE & SPRING TYPE VIBRATION ISOLATORS. BASE BY GEN. CONTR.

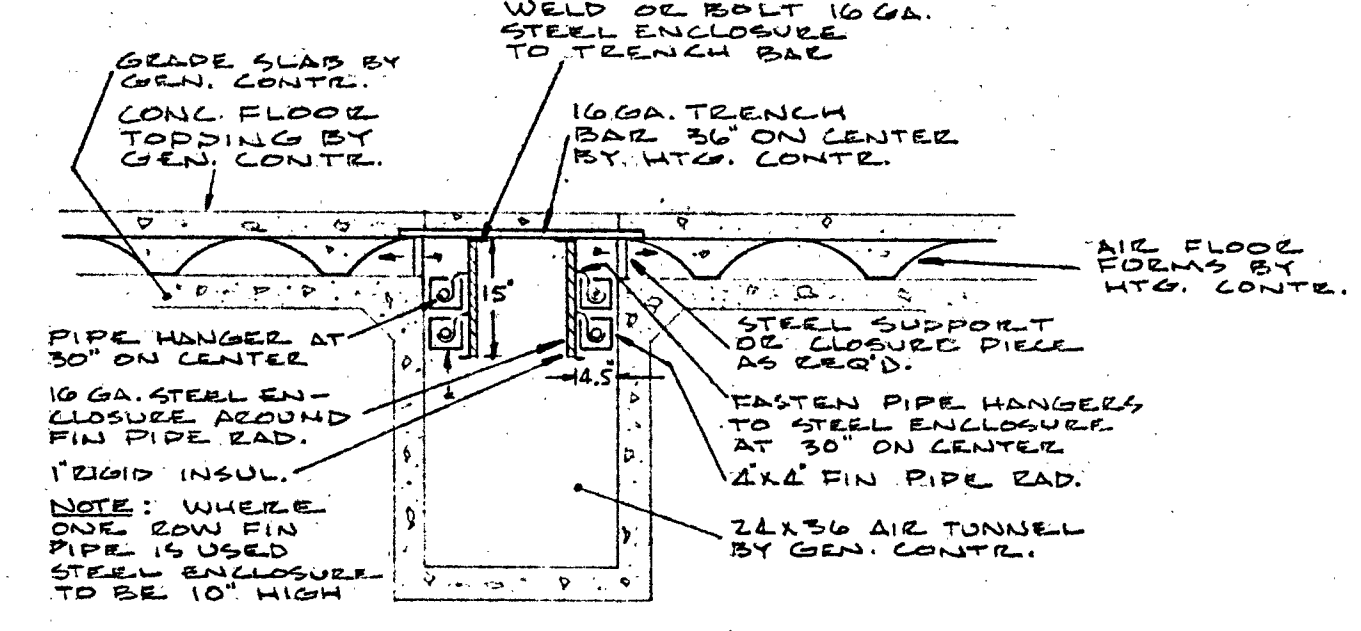
CIRCULATOR

SIZE	CFM	FT. H ₂ O	HP	RPM
2"	14	10.0	1/6	1750

WALL EXHAUST FAN

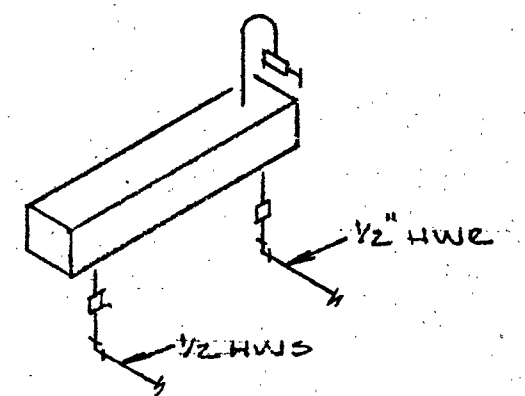
CFM	RPM	TOT. SP. IN. H ₂ O	SPEED	HP	FAN DIA.	DEVE.
200	1100	1/4"	SINGLE	1/80	8 1/2"	DELT

WTC. CONTR. TO VERIFY WALL OPENING DIMENSION WITH GEN. CONTR. FURNISH WITH BACK DRAFT DAMPERS

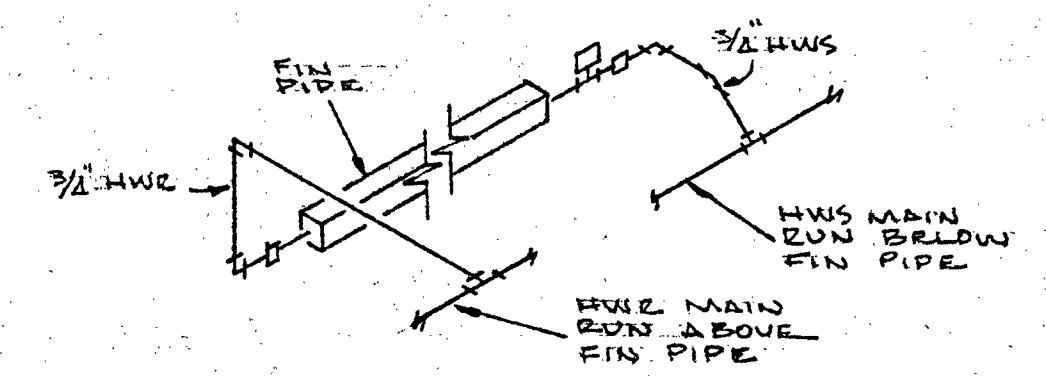


SECTION A-A
SCALE: 1/2" = 1'-0"

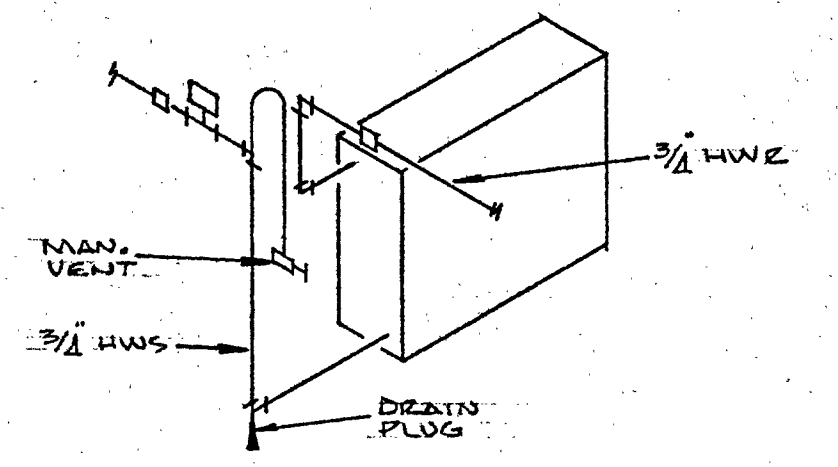
DETAILS



PIPING AT CONVECTOR
NO SCALE



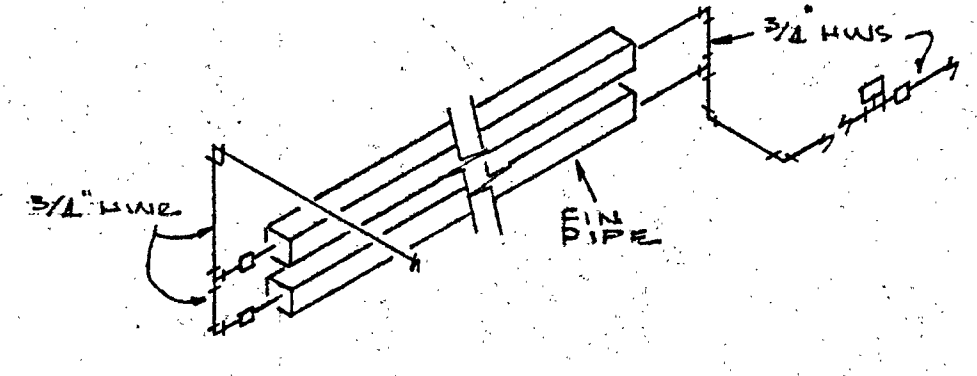
PIPING AT FIN PIPE RADIATION
TYPE A & B
NO SCALE



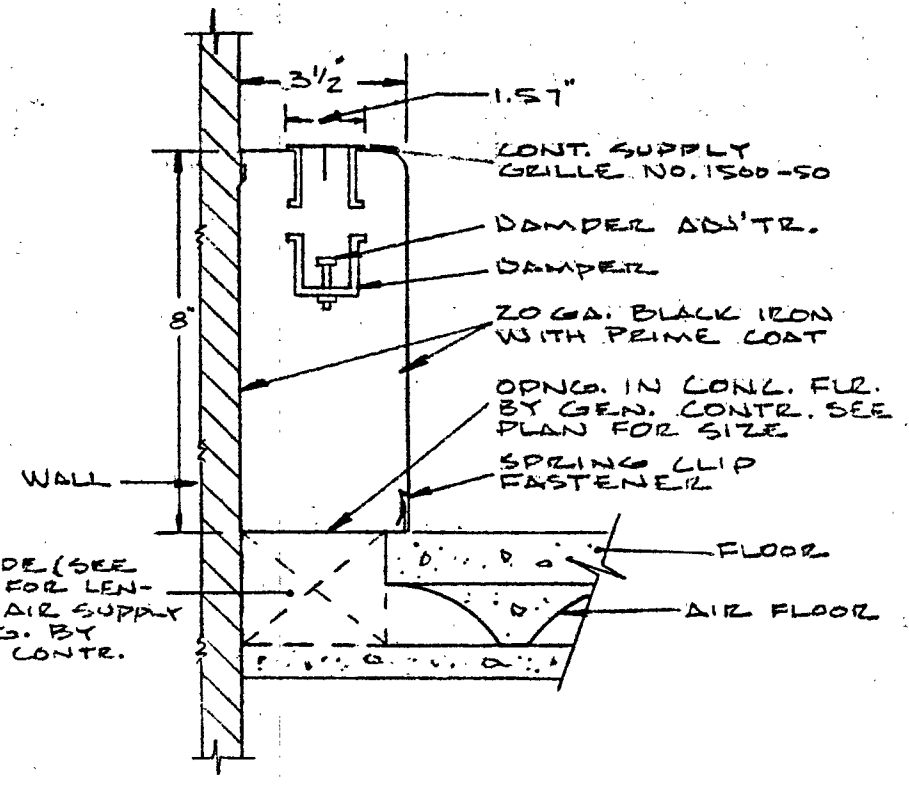
PIPING AT BOOSTER COILS
NO SCALE

SYMBOL LIST

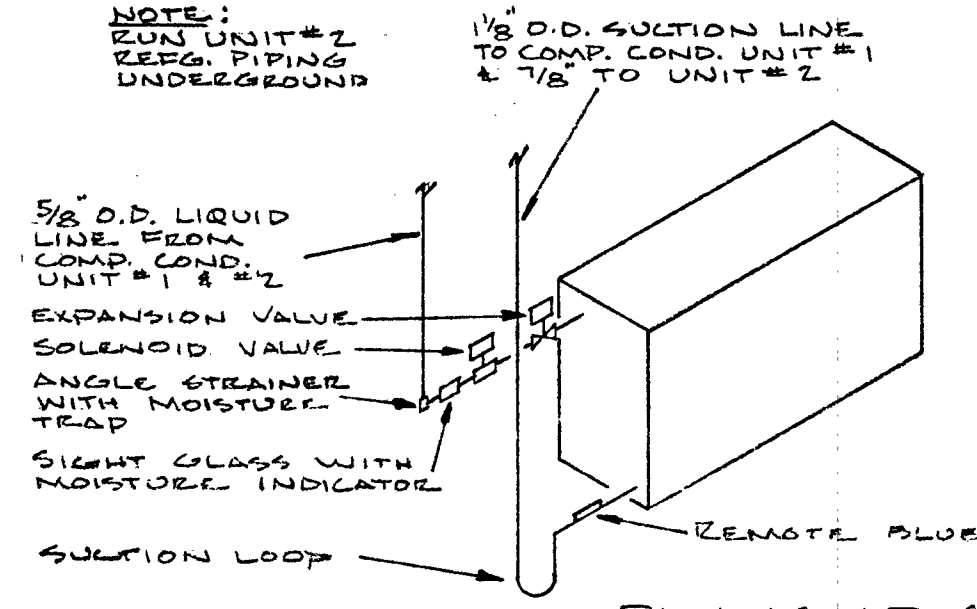
TOP OF MAIN	45° TAKE-OFF
BOTTOM OF MAIN	BALANCING COCK
	AUTO VALVE
	THERMOMETER
①	THERMOSTAT
②	NIGHT THERMOSTAT



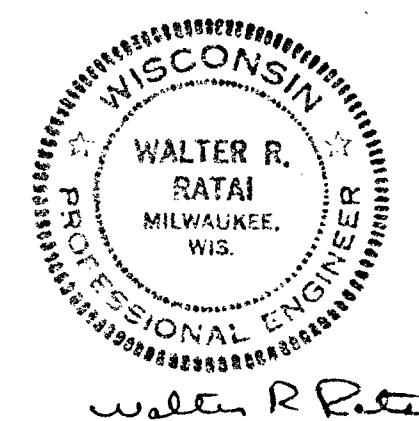
PIPING AT FIN PIPE RADIATION
TYPE C
NO SCALE



AIR CABINET DETAIL
NO SCALE



PIPING AT COOLING COILS
NO SCALE



Walter R. Rataj

APPROVED

DRAWN BY

DATE

NO.

REVISIONS

ISSUED FOR

DATE

NO.

5/1/65

DARBY, BOGNER & ASSOCIATES, INC.

ENGINEERS

WISCONSIN 53227

NEW CHAPEL

PIUS II HIGH SCHOOL FACULTY RESIDENCE

145 SOUTH 76th STREET MILWAUKEE, WISCONSIN

CHAPEL HEATING AND SCHEDULES

JOB NO. 9408

SHEET NO. HV 2

SPECIFICATIONS

1. GENERAL SCOPE:

- Provide all materials, labor and equipment necessary to install a complete heating, ventilating and air conditioning system as hereinafter described, shown on the drawings and/or as required.

b. Work Excluded:

- Installation of door transfer grilles furnished by Heating Contractor.
- Electrical and plumbing connections as hereinafter specified.
- Furring of ductwork.
- Cutting, patching and lintels.
- Openings required for installation of heating, ventilating and air conditioning equipment.
- Curbs for duct drops thru roof and roof exhausters.
- 6" concrete base for compressor-condenser units and utility fan.
- Recess for convactor.
- Areaways for outside air intakes.
- Kitchen exhaust hood.
- Concrete air tunnel and concrete floor.
- 24 x 24 access door to air tunnel.

2. ELECTRICAL CONNECTIONS:

a. By Electrical Contractor:

- All line voltage wiring, including line voltage temperature control wiring, in accordance with wiring diagrams furnished by Heating Contractor.
- Installation of all starting equipment, fused and/or breaker disconnect switches except weatherproof switches in each compressor-condenser unit, roof exhausters and utility fan.
- To wire circulator.

b. By Heating Contractor:

- To furnish starters, wiring diagrams and motors to suit current available.
- All low voltage wiring by Temperature Control Sub-Contractor.

c. Motor Requirements:

- All motors 1/2 H.P. and larger: 240/1/60 A.C.
- Smaller motors: 120/1/60 A.C.
- All motors to be NEMA rated for 40°C rise.

d. Starting Equipment:

- All manual starters hereinafter specified to be Allen Bradley 600TAX5, Square D 2510 AG2, Cutler Hammer 910H75, or Allis Chalmers, two pole toggle switch type with thermal overload relay with general purpose enclosure.
- All manual starters with pilot light hereinafter specified to be Allen Bradley 600TAX109, Square D 2510 AG4, or Cutler Hammer 910H77, two pole toggle switch type with thermal overload relay and general purpose enclosure with neon pilot light in cover.
- All magnetic starters hereinafter specified to be Allen Bradley 709, Square D 8536, Cutler Hammer 9586, 3 pole, three phase type of NEMA size applicable with two melting alloy overload relays, line voltage holding coil, reset pushbutton and general purpose enclosure.
- All two speed manual starters for two winding fractional horsepower, single phase motors to be Allen Bradley 600TKX293 or equal, arranged for flush mounting, with speed indicating lights and overload protection for both speeds.

3. PLUMBING CONNECTIONS:

a. By Plumbing Contractor:

- One open site drain within 5 ft. of air handling units.

b. By Heating Contractor:

- Drain piping from air handling units to open site drains with 6" deep loop seal.

4. SHOP DRAWINGS:

- Submit 5 copies of manufacturers' certified drawings to Architect for all equipment and controls.

5. EQUIPMENT SUPPORTS:

a. By General Contractor:

- Openings, recesses, lintels and furring for ducts, registers and grilles and curbs for all ducts thru roof and roof exhausters curbs.
- Concrete areaways.
- 6" concrete base under compressor-condenser units and utility fan.

b. By Heating Contractor:

- Support of all equipment, piping and ductwork as indicated on plan and required for installation of all heating and ventilating work.

6. REFRIGERANT PIPING:

- ASTM Spec. 88 type K hard temper bright annealed deoxidized copper tubing with wrought copper sweat fittings.
- Clean internally with carbon tetrachloride after fabrication.
- Pressure test with oil pumped nitrogen and trace of Freon at 150 psig and check with Halide torch.
- Evacuate system to 29.7 in Hg. vacuum and charge system.

7. AIR HANDLING UNITS:

- Trane BHS 4 & BHS 5, Carrier, Lennox or Dunham-Bush, of size and capacity indicated on plan.

b. Complete With:

- AMCA rated forward curved centrifugal fan, adjustable belt drive, insulated 18 gauge steel cabinet, NEMA approved, resilient mounted motor and magnetic starter.
- Copper tube, aluminum fin cooling coil with expansion valve for P-22 operation and insulated drain pan assembly.
- Rubber-in-shear floor type vibration isolators.
- 1" throwaway filters.
- Drain line with 4" loop seal from each unit drain pan to open site drain. Open site drain by Plumbing Contractor.

8. COMPRESSOR-CONDENSER UNITS:

- Trane PAC 4 & PAC 5, Carrier, Lennox or Dunham-Bush, ARI approved for capacities indicated on plan. (P-22 operation)

b. Complete With:

- Bonderized weatherproof zinc coated steel casing, hermetic compressor with overload protection, condenser fan and motor.
- Magnetic starter for compressor and manual starter for condenser fan.
- Copper tube, aluminum fin condensing coil, crank case heater, ASME liquid receiver with relief valve, high and low pressure cut-outs, suction and discharge shut-off valves, strainer and dryer, and liquid charging valve.
- Full charge of Freon 22 and oil, vibration isolators and weatherproof disconnect.
- Pump down relay on each unit to be field wired.

c. Note:

- Condenser fans to be interlocked with compressor.
- Mount units on 6" concrete base by General Contractor.

9. REFRIGERANT SPECIALTIES:

- Full charge of Refrigerant 22 into both systems.
- Mueller double port liquid indicator with moisture indicator (one req'd on each unit).
- Sporlan solenoid valve and Sporlan catch-all moisture trap and strainer (one req'd on each unit). (Solenoid valve for pump down cycle)
- Install as per details.
- Expansion valves furnished with equipment hereinbefore specified.

10. ROOF EXHAUSTERS:

- T-14 CRF, AMCA rated for sizes and capacities indicated on plans.

b. Complete With:

- Centrifugal aluminum fan wheel (air foil type or backward inclined).
- NEMA approved open ball bearing motor with direct drive.

- Weatherproof disconnect and manual starter with pilot light.
- Multi-louver self-acting backdraft damper with felted tips, pivoted on oilite bearings, and spun aluminum weatherproof housing with aluminum birdscreen.
- Weatherproof disconnect switch.

c. Note:

- Provide roof opening dimensions to General Contractor.

11. UTILITY FAN:

- Trane LDB or ILG, AMCA rated for size and capacities indicated on plan.

b. Complete With:

- Backward inclined centrifugal fan wheel.
- Adjustable belt drive and belt guard.
- NEMA rated permanently lubricated ball bearing motor. (2 speed, 2 winding)
- Two speed manual starter.
- Integral steel base for fan and motor with Korfund spring vibration isolators and vibro-pad.
- Cover over motor and drive.
- Weatherproof disconnect.

12. CIRCULATOR:

- Bell & Gossett or Dunham-Bush, of size and capacity indicated on plan.

b. Complete With:

- Mechanical seal for 220°F operation.
- 1750 rpm motor.
- Bronze fittings and steel shaft.
- Non-overloading over entire range.
- Manual starter and pilot light.

13. HOT WATER SPECIALTIES:

PRESSURE GAUGES:

- Ashcroft No. 1010, quality gauge, Lonerger or equal, where indicated on plan.

b. Complete With:

- Alumalife case, 4-1/2" dial and bourdon tube with phosphor bronze mechanism.
- Range 0 - 100 psi, 10 psi intervals, 1 psi intermediate graduation.

THERMOMETERS:

- Ashcroft 61-metal dial thermometers, Lonerger or equal, where indicated on plan.

b. Complete With:

- 5" diameter dial, stainless steel case and stem and wells with 50-250°F range.

GATE VALVES:

- Walworth 5, Crane 440 or Jenkins 62, 125 lb. with brass body, double disc and rising stem.

BALANCING COCKS:

- DeZurik Rig #99 eccentric valves.

b. Complete With:

- Semi-steel body, bronze plug with seal, adjustable open position stop with snap-on plastic cap, 1/8" pressure tap on downstream side of valve and screwed ends. Provide Owner with operating handles.

14. HOT WATER & DRAIN PIPING:

a. Hot Water Piping:

- Sched. 40 ASTM Spec. A-120 steel pipe.
- ASTM Spec. A-126 class 125, cast iron fittings on screwed construction.
- Hot water piping may, at this Contractor's option, be ASTM Spec. 88 type L, hard temper copper tubing with wrought copper sweat fittings soldered with 95-5 solder.
- High points shall be vented and all low points arranged for draining.
- Air vent piping to be constructed of ASTM Spec. 88 type L, soft temper copper tubing with wrought copper sweat fitting soldered with 95-5 solder.

b. Drain Piping:

- 40 ASTM Spec. A-120 galvanized steel pipe with ASTM, Spec. A-197 class 150, galvanized malleable iron screwed fittings.
- Welding not permitted.

15. FIN PIPE RADIATION:

- Modine, Trane or Dunham-Bush, of size and capacity indicated on plan.

b. Complete With:

- Copper tube, aluminum fin element.
- Expansion hangers 30" on center.

c. Note:

- Element to be installed in air tunnel as shown on plan and be arranged for running of mains above and below elements. (See plan details).
- 16 ga. insulated steel enclosure to be fabricated to fit around fin pipe in air tunnel. (See plan details)
- Steel enclosure to be welded or bolted to trench bar at 3 ft. intervals as shown on plan.
- Pipe hangers to be fastened to steel enclosure at 30" intervals.

16. CONVECTOR:

- Trane, Modine or Dunham-Bush, NBS Code rated, for size and capacity indicated on plan.

b. Type:

- Fully recessed with front inlet and outlet grilles and four-side overlap recess flange.

c. Complete With:

- Copper tube aluminum fin element.
- Air vent assembly.
- 16 ga. bonderized prime coat cabinet. (Rec. Encl. 20 gauge)

17. BOOSTER COILS:

- Trane or Dunham-Bush, of size and capacity indicated on plan.

b. Complete With:

- Single continuous copper tube aluminum fin element and galvanized steel frame for installation in ductwork.

18. AIR FLOOR:

- Airadco of Air Radiant Conditioning Company, P.O. Box 500, DeForest, Wisconsin.

b. Of design and arrangement indicated on plans.

c. Airadco Materials: (Furnished by Heating Contractor)

- 18 x 36 x 3/4" high, 24 ga. cold rolled steel air floor forms, 20 ga. fasteners, 27 x 3-3/4" high, 24 ga. closures and baffle strips.
- 3-1/2" wide x 1" high trench bar for supporting air floor forms over air tunnel.
- Bars should be 6" longer than air tunnel is wide so there is a bearing surface on each side of trench. Bars to be 16 ga. and able to be welded to steel enclosure around fin pipe.

d. General Contractor to Furnish:

- Four and float finish level concrete sub-floor, and after the placing of air floor forms and accessories by the Heating Contractor, mouting of finished concrete floor.

- The air floor layout shall be checked by a Representative of Airadco before finished floor is poured.
- Corred concrete air tunnel of size indicated on plan.
- Openings shall be provided by the General Contractor for supply air to air cabinet where indicated on plan. Heating Contractor to verify all dimensions and location of such openings.
- 24 x 24 access door into air tunnel.

e. Installation:

- Heating Contractor to install all air floor forms and accessories hereinbefore specified.
- Sub-floor surface to be cleaned and free from debris before installing air floor forms.
- Forms should be placed so they are against the wall.
- After the floor has been poured and the concrete openings have been made, use a cutting torch to cut the same size opening in the air floor form for air supply openings.
- Caulk duct connected to air tunnel.
- A representative of Airadco must be present at the job when the air floor is laid out to instruct the Heating Contractor in the proper installation technique.

19. AIR CABINET:

- Brandes 8358 cabinet with 1500-50 grille.

b. Complete With:

- 26 ga. steel cabinet with rounded corners, prime coat finish, end caps at each cabinet termination, filler sections and corner pieces as required, micro-air damper adjuster and continuous linear grille.

c. See plan for lengths required.

- Provide 1/4 round wood molding if cabinet cannot be set flush with wall or floor.

20. GRILLES AND REGISTERS:

a. Supply Registers:

- Titus 1277, Tuttle & Bailey T-557, Carnes 200H or Barber Colman MAGVOL.
- Complete with adjustable horizontal face fins, adjustable vertical rear fins, key operated opposed blade volume dampers, steel flanged frame, sponge rubber gaskets and prime coat finish.

b. Exhaust & Return Registers:

- Titus R1 251, Tuttle & Bailey T-117D, Carnes 600H or Barber Colman MPVOL.
- Complete with horizontal fixed fin core, flanged frame with sponge rubber gasket and prime coat finish.

c. Door Grilles:

- Titus T800A, Tuttle & Bailey T98C, Carnes 900 or Barber Colman AF.
- Complete with "V" fin core, metal U frame, prime coat finish; turn door grilles over to General Contractor for installation and provide complete dimensional data for openings required.

21. SHEET METAL WORK:

- Galvanized iron, 26 ga. to 13" side, 24 ga. to 30" any side, 22 ga. to 60" any side.
- Construct with flat seams and joints and crossbreak all ducts exceeding 18" side.
- Joints and seams looked for air tight joints as per methods recommended in ASHRAE Guide. All turns with Barber Colman turning vanes. Provide angle iron braces for rigidity as necessary.
- Fit and secure in place with all necessary hangers, braces and supports required.
- Make changes in cross section, offsets, etc. to avoid interferences with other equipment.
- Flange ducts for attachment of grilles and registers. Provide volume dampers as required for balancing.
- Provide Ventfabrics Co. canvas connections at all connections to air handling unit. Install Barber Colman deflectrols at each supply register or outlet take-off.
- Provide flashing and counter-flashing for all ducts passing thru roof.
- Assemble and erect all sheet metal work in such manner to eliminate any vibration or noise transmission.
- Solder outside air and mixed air ductwork.

22. FIBERGLAS DUCTWORK:

- All shaded ductwork to be Fiberglass ductwork:
- Owens Corning Fiberglas, 3-1/4 lb. density insulating board with foil vapor barrier jacket, of inside dimensions as indicated on plan.
- 1" thickness, fabricated as per manufacturer's catalogue No. 56L2024 with all joints and seams sealed with pressure sensitive tape.

23. SHEET METAL SPECIALTIES:

- Weatherproof louvers to be American Warming type A-150-J or equal, constructed of 16 ga. aluminum with 1/2" mesh birdscreen.
- Self-acting backdraft dampers to be American Warming B-240 or equal, complete with adjustable counter-weighted steel blades pivoted on oilite bearing, and edges lined with felt.

24. COVERING:

a. Refrigerant Piping:

- Cover all refrigerant piping with Armstrong foamed plastic Armaflex 22 pipe insulation or Owens Corning.
- Nominal 3/4" wall thickness, fittings covered with mitered sections; seal all joints and seams with 620 adhesive.
- Install in strict accordance with manufacturer's recommendations.

b. Duct Covering:

- Cover all fresh air, mixed air and supply air ductwork on air handling units, except Fiberglass ductwork, with Owens Corning Fiberglas flexible insulation, Johns Manville, or Gustin Bacon 1/2 lb. density, 1" thickness with reinforced foil face.
- Adhere to duct surfaces with Benjamin Poster 8199 fire retardant adhesive with a 50% coverage.
- Butt all edges of insulation and seal joints with a flange of the facing or with reinforced foil tape.
- Staple (6" o.c.) flange of facing & seal joints with adhesive as shown.

c. Acoustic Insulation:

- Where indicated on return ductwork with Owens Corning Fiberglas, Johns Manville or Gustin Bacon 1-1/2 lb. density flexible mat faced duct liner, 1" thickness.
- Adhere to interior surfaces of duct with 50% coverage of rubber cement.
- Secure Gustin Graham welded pins on maximum 16" centers on top sections and sides and butt joints.

25. AUTOMATIC CONTROLS:

- Install Minneapolis-Honeywell, Barber Colman or Johnson Service electric system of temperature control in strict accordance with the following specifications.
- All low voltage wiring shall be installed by Temperature Control Contractor, but the line voltage wiring will be furnished by the Electrical Contractor.
- Air Handling Unit No. 1 & Booster Coils:
 - Provide on a panel, located near unit, Day-Night switch, discharge temp. thermometer, On-Off cooling switch and minimum damper positioning switch.
 - Damper positioning switch to reset position of outside air damper.
 - On Night cycle, night thermostat to cycle fan and open booster coil valves with fresh air damper closed on a call for heat. Cooling to be inoperative.
 - On Day cycle, provide a discharge controller in fan discharge to operate fresh air damper and return air damper to maintain a discharge temperature. On rise in discharge temperature, fresh air damper to modulate open. On further increase in discharge temperature, compressor-condenser unit to be started.

- Cooling to be operative only when cooling switch is in On position.
- Provide on panel, discharge temperature indicating thermometer.
- Provide freeze protection stat to stop fan and close out air damper when fan discharge fall below 40°F.
- Provide thermostat to open respective booster coil modulating valve on a drop in space temperature.

d. Air Handling Unit No. 2 & Fin Pipe Radiation:

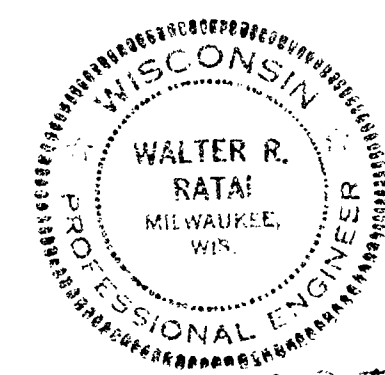
- Control will be same as for Unit No. 1, with the following exceptions:
 - Panel to be located in existing Hall as shown on plan.
 - Fresh air damper to be set by minimum positioning switch only.
 - Discharge controller to control compressor-condenser unit and to start unit when discharge temperature is above 60°F and cooling switch is in On position.
 - Individual room thermostats to modulate fin pipe radiation valve to Open position on drop in space temperature.
 - Night thermostat to be located in Chapel.
 - Omit freeze protection.

e. Circulator:

- Circulator to run continuously below 65°F outdoor temperature, and above 65°F if cooling is operative.

26. FINAL REQUIREMENTS:

- Materials and equipment not indicated or specified but necessary for satisfactory operation of system must be furnished as part of Contract.
- All work, materials, equipment and controls to be guaranteed for one (1) year from Final Acceptance of installation and kept in repair for said period.



DARBY, BOGNER & ASSOCIATES, INC.
ENGINEERS
ARCHITECTS
WEST ALLIS, WISCONSIN 53227

PIUS X HIGH SCHOOL FACULTY RESIDENCE
149 SOUTH 70th STREET
MILWAUKEE, WISCONSIN

SPECIFICATIONS

JOB NO.
6408
SHEET NO.
H3V
3

PERMITS, CODE & REGULATIONS — SECURE ALL PERMITS AND LICENSES APPLICABLE TO THIS BRANCH AND PAY ALL FEES INCIDENT THERETO. COMPLY WITH ALL LOCAL LAWS, ORDINANCES AND REGULATIONS IN ACCORDANCE TO TAKE CARE OF ALL CHARGES, SEWER CONNECTION CHARGE ETC.

CHARGE ETC. - INCLUDING IN BID- THIS CONTRACTOR TO INCLUDE IN BID: CUTTING OF WALL HOLES AND TRENCHES FOR HIS WORK, TO REMOVE ALL BROKEN CONCRETE AND SURPLUS DIRT FROM SITE, SEAL ALL OPENING BELOW FLOOR OR ABOVE CEILING NOT USE WATER PIPE - TYPE 1 - COPPER WITH WROUGHT COPPER FITTINGS, USE 95-5 SOLDER TO SWEAT FITTINGS AND PIPE TOGETHER. SEWER - BELOW FLOOR EX. HV. CL. 30" PIPE WITH LEAD JOINTS.

JOINTS. WASTE & VENT PIPE - MILD GALV. STEEL WITH C.I. DRAINAGE
FITTINGS FOR WASTE & C.I. FITTING FOR VENT.
VALVES - HAMMOND - #641 GATE VALVES
FLOOR DRAINING - F-01 JAY R. SMITH FIG. 2010 B 8" X 8" POLISHED
BRONZE STAINER - F-02 JAY R. SMITH FIG. 2110
WASH MACHINE - SYMONS VALVE
SINK - SINK B-08 DUOSTR. FAUCET CHICAGO #880 W/ HOSE AND
SPRAY. KOHLER K-8801 DUOSTRAINER, 1/2" ANGLE STOPPS AND SUPPLIES
1/2" MILW. CODE CAST BASS P.T.RAP.

DISPOSAL - WASTE KING CUSTOM HUSH MODEL #6000
LAUNDRY TUB - REUSE EXIST. TUBS AND STAND. FURNISH CHICAGO
#686, 1/2" MILW. CODE P-TRAP. USE TWO (2) TUBS OF BEST CONDITION AS
DETERMINED BY ARCT.

DISHWASHER - HOBART MODEL UM-4-D
BOOSTER HEATER - WATCO COMPACT C-4, 4 KW, (1) PHASE FURNISH
34" MILW. CODE RELIEF VALVE.
PATCHING OF FLOOR AND WALLS BY GENERAL CONTR. PREPARED

PATCHING OF FLOOR AND WALLS - BY GENERAL CONTRACTOR. PREPARATION OF HOLES READY FOR PATCHING BY THIS CONTRACTOR.
UNUSED FIXTURES TO BE REMOVED AND ARE TO BE REMOVED.

FROM SITE, BY PLBG. CONTR.
PIPE COVERING - COLD WATER JOHNS-MANVILLE FIBROCEL WHITE
VB, OR APPROVED EQUAL, 3/4" THICKNESS. FITTINGS MINERAL WOOL FELT
SECURED W/ OPLY TWINE, MASTIC SEAL FOLLOWED BY CANVAS OR EQUAL
THIS ALSO APPLIES TO WATER METER. VISIT TO JOB SITE TO DETERMINE
AMOUNT NEEDED FOR ALL COLD WATER PIPE IN BASEMENT
AREA, AND HOT WATER CONCEALED BY NEW DROP CEILING OR
WALLS.

WALLS. FINALLY THIS CONTRACTOR TO DO A COMPLETE JOB AS SHOWN ON PLAN OR MENTIONED IN SPEC'S AND VISIT TO SITE, FURNISH AND INSTALL AS MENTIONED. LOCATION ARE APPROX. GAS PIPE BLK ST. PIPE WITH BLK MALL FITTING AND APPROVED GAS VALVES

APPROX. 100' S. OF SACRISTY SINK. JUST CH 2222 AGR. WITH COVER
AND LOGS WITH REAR LEFT HAND OPENING FOR FAUCET
101 FAUCET WITH SHORT SPOUT, NO. 3575. BRASS DRAIN
LAVATORY - KOHLER STRAND-20X14, SUPPLY AND DRAIN
FITTING K-BO40, 1/4" CHROME CAST BRASS TRAP, ANGLE
STOPS AND SUPPLIES.

SHOWERS AND SUPPLIES. FLAT MODEL 27. 30X36 J.TALL WITH HEAVY GAUGE GALV BONDZINCED STEEL FINISH ON IN WHITE SYNTHETIC BAKED-ON ENAMEL FLOOR SHALL BE TERRAZZO WITH SHOWER DRAIN SOAP DISH INTEGRAL ROD AND HEAVY PLASTIC CURTAIN SHOWER FITTING SHALL RECESSED A WALL NESTING MIXING VALVE SOGENSEN AND CHECK VALVE C-738-1/2" BRASS W/ TITZO BALL JOINT SHOWER HEAD WITH YOUNG

SHOWER ARM K-7370 BALL JOINT SHOWER HEAD WITH VOLUME
REGULATOR
ROOF DRAIN - JAY R. SMITH FIG. 1010 FURNISH AND INSTA
30X30 4" SHEET LEAD AROUND DRAIN.
CLEANOUT - JAY R. SMITH FIG. 4028

CLEANOUT - JAY W. SMITH - FIG. 4028
EXISTING FIXTURES - TO BE REUSED SHALL BE REPAIRED
TO WORKING ORDER.
HOSE BIBBS HS-1 - SLOAN 180 WITH 1/4 GAS ON
VACUUM BREAKER. TO COVER

STORM SEWER - OUTSIDE VIT. CLAY TILE TO DRYER
INSIDE EX. HV. C.I. SOIL PIPE AND FITTINGS
EXISTING UTILITIES - PLUMBING CONTRACTOR
SHALL BE RESPONSIBLE FOR ALL EXISTING
ALL GAS, CURBS AND KIDNEY V. AND WASHER & EXT.

UTILITIES, CURBS AND SIDEWALKS AND WASHES EXIST.
PAY ALL CHARGES AND PERMITS. 2" W/1/2" V.T. 3/4" H.
EXCAVATION FOR THE INSTALLATION C.W. 2" FUNNEL
AS SHOWN. REMOVE ALL EXCESS DIRT FROM DRAIN.
SITE BACKFILL ALL TRENCHES WITH

WATER CLOSET - KOHLER K-5675 EBU BOLTON VITREOUS CHINA ELONGATED SIPHON JET CLOSET COMBINATION WITH K-4555 INSULINER TO PREVENT CONDENSATION; K-7638

K-4555 INSULINER TO RAY
SUPPLY WITH STOP; BEMIS No. 1558 SELF-RAISING SEAT.



SCALE $\frac{1}{4}" = 1'-0"$



DETAIL No. 1

NOT TO SCALE

NORTH

NOTE

EXISTING PIPES FROM EXISTING TOILET ROOM IF NOT REUSED SHALL BE REMOVED TO POINT OF CONNECTION.

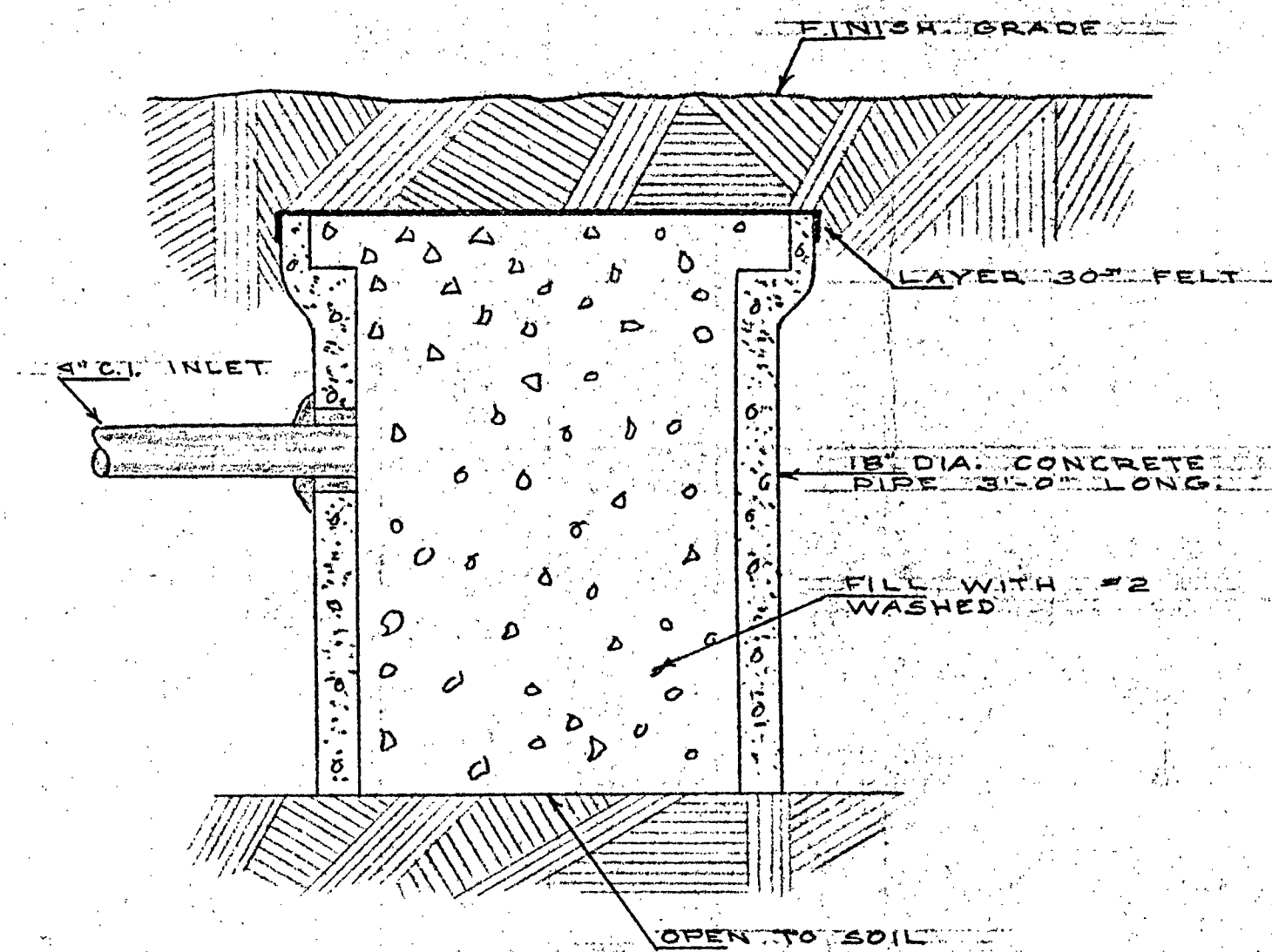
DARBY, BOGNER & ASSOCIATES, INC.
ARCHITECTS
ENGINEERS
WEST ALLIS 19,
WISCONSIN

PILLSBURY HIGH SCHOOL FACULTY RESIDENCE

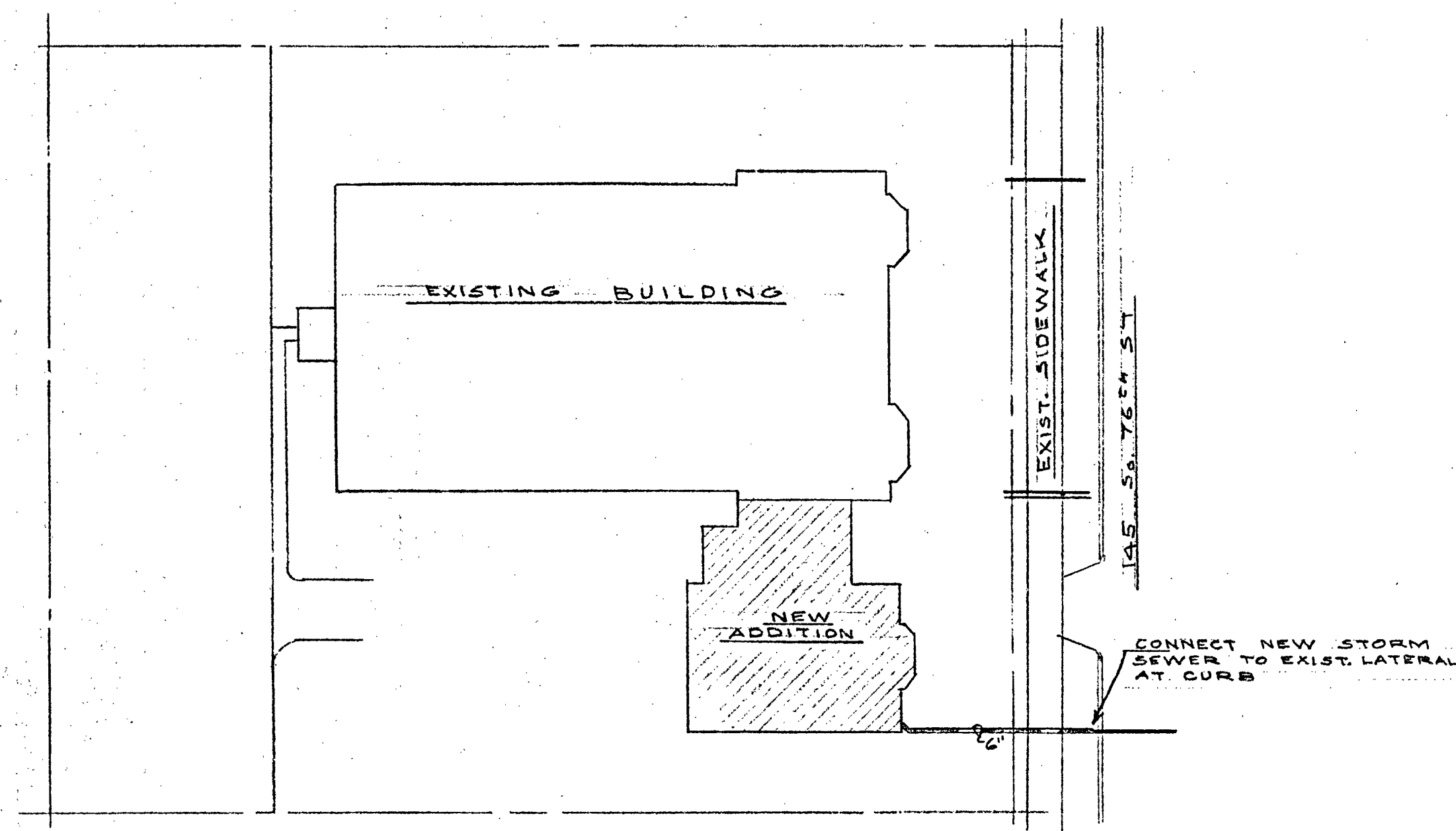
REVISIONS TO
BASEMENT
PLUMBING - BASEMENT
FLOOR PLAN

JOB NO.
6408

SHEET NO.
P-1



TYPICAL SACRAMENT DRAIN BASIN
NOT TO SCALE

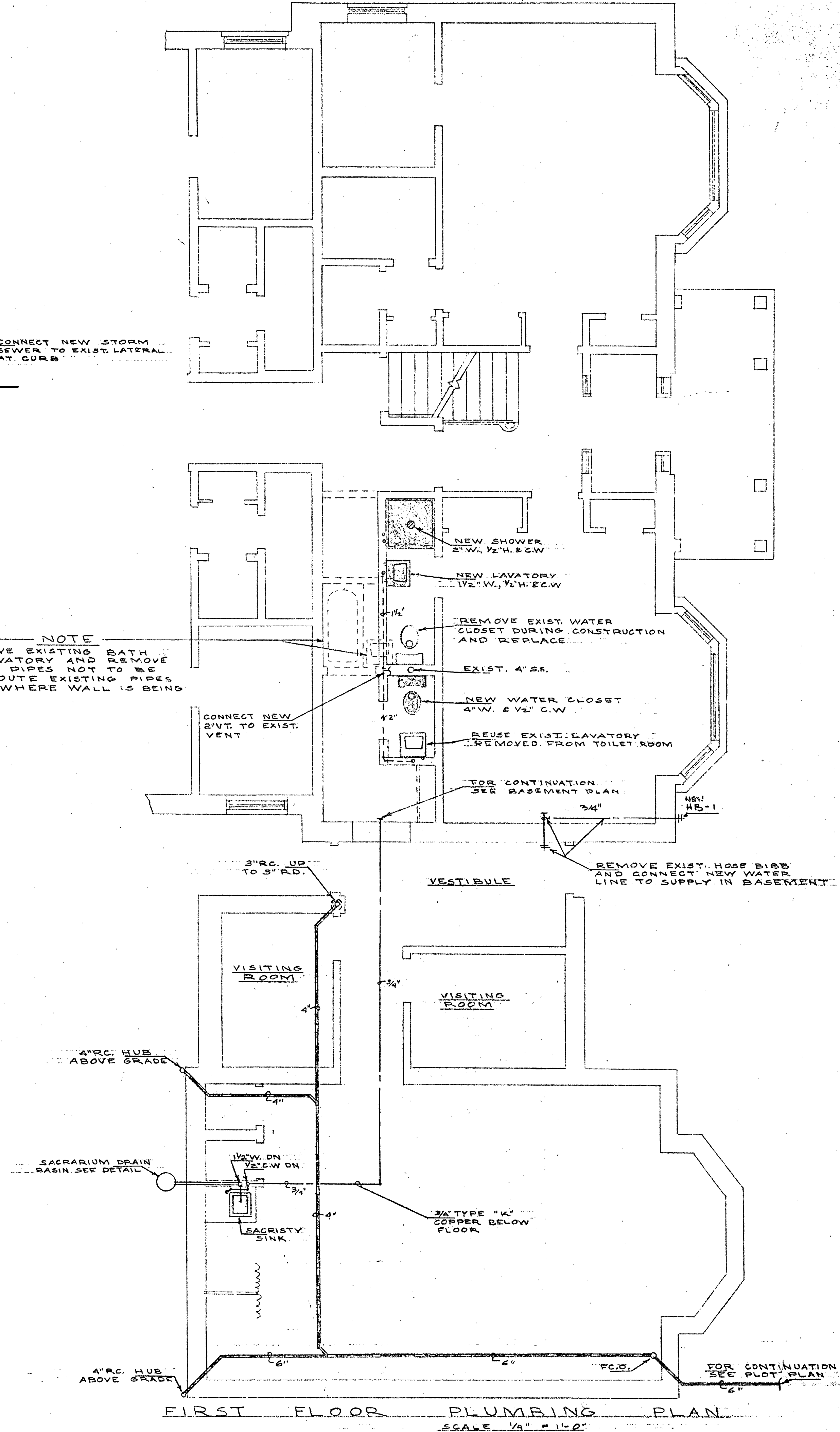


PLUMBING PLOT PLAN
SCALE 1" = 20'-0"

NORTH



NOTE
REMOVE EXISTING BATH & LAVATORY AND REMOVE ALL EXISTING PIPES NOT TO BE REUSED. REROUTE EXISTING PIPES THAT ACCURE WHERE WALL IS BEING REMOVED.



DARBY, BOGNER & ASSOCIATES, INC.
ARCHITECTS
ENGINEERS
WISCONSIN
WEST ALLIS 19.

NEW CHAPEL
FOR PLUS XI HIGH SCHOOL FACULTY RESIDENCE
145 SOUTH 76th STREET MILWAUKEE, WISCONSIN

PLUMBING PLAN

JOB NO.
6408

SHEET NO.
P-2

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