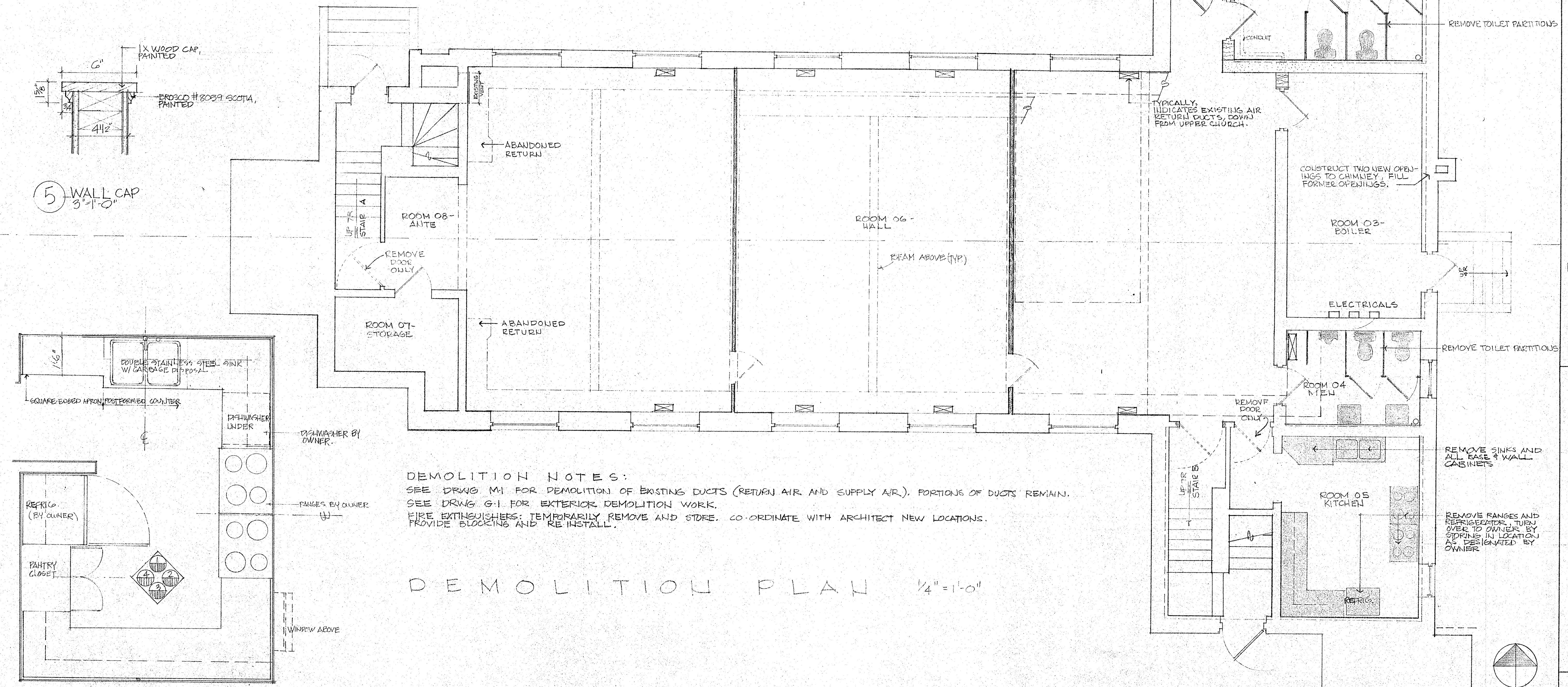
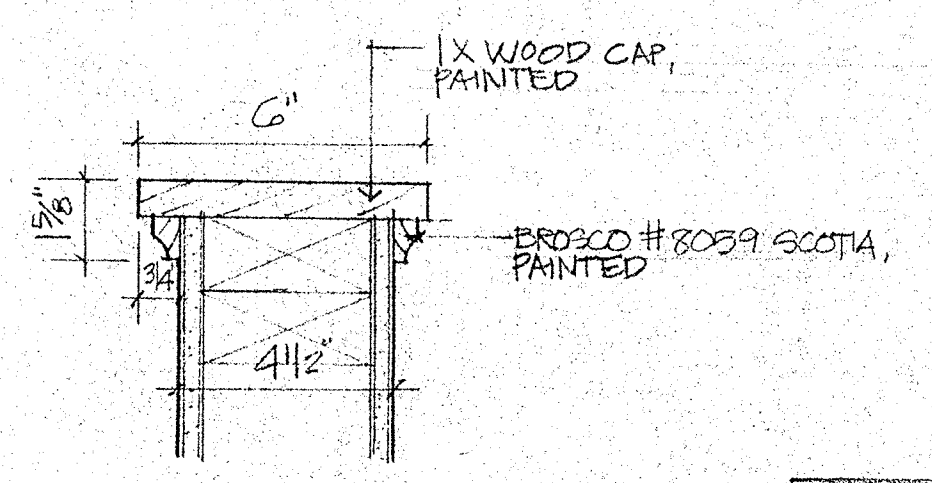
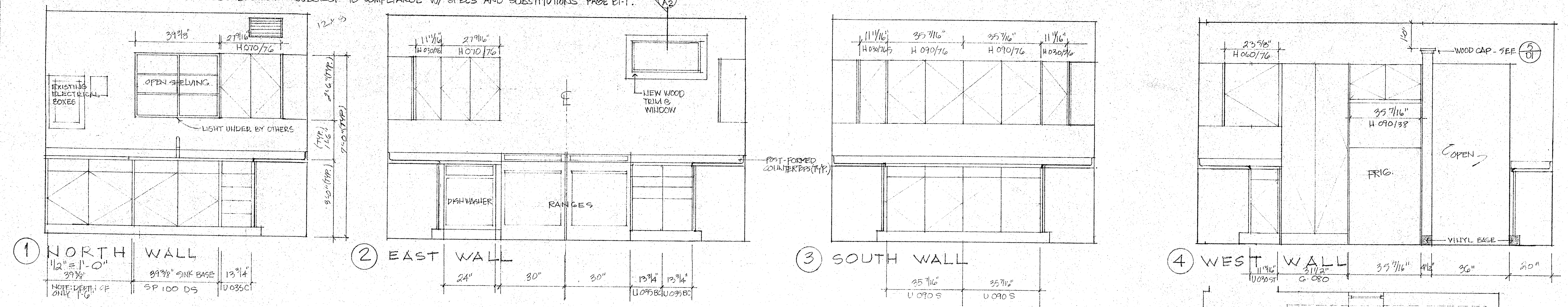
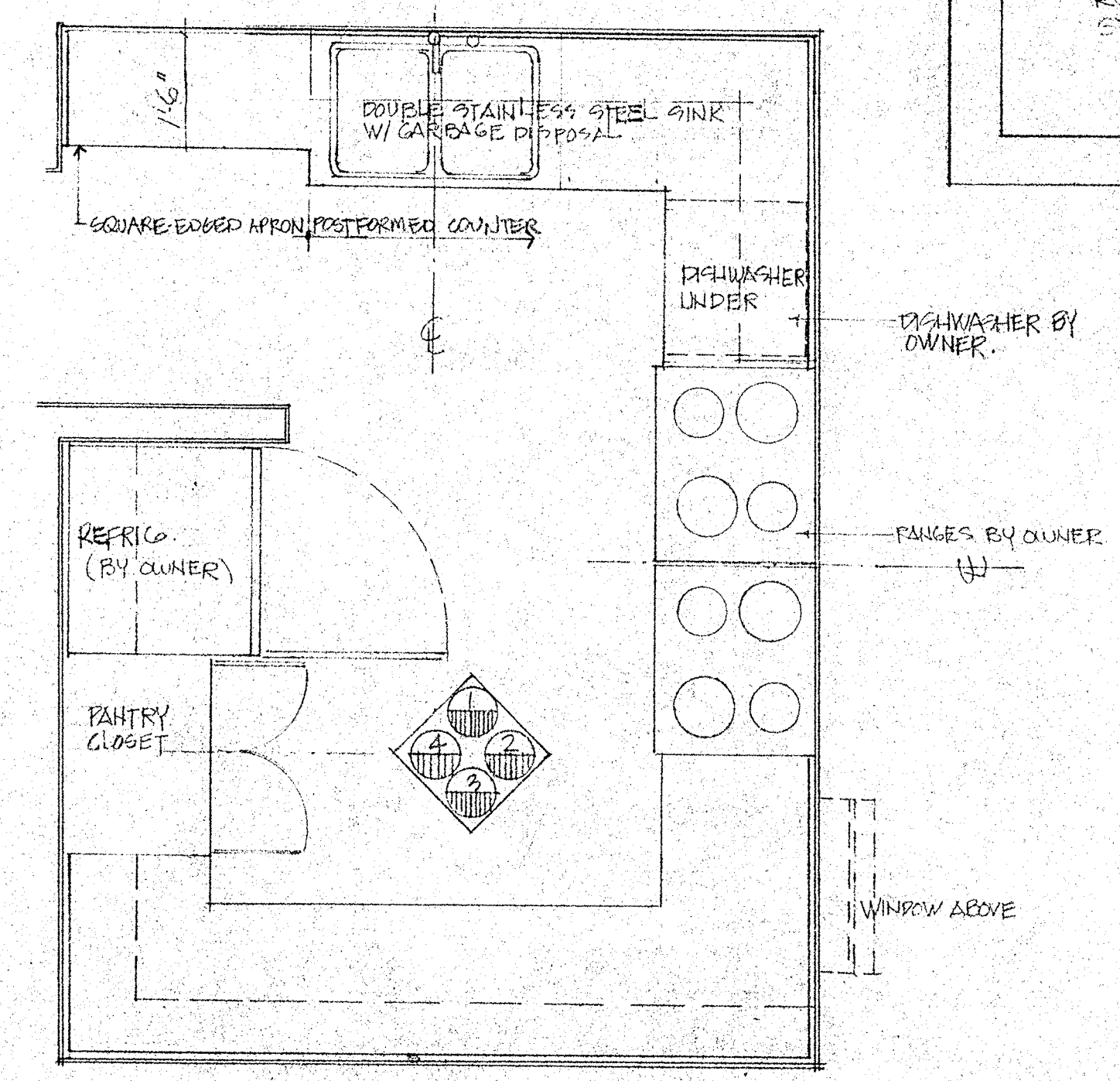


INTERIOR ELEVATIONS - ROOM 05 - KITCHEN 1/2" = 1'-0"

SPECIAL NOTE: CABINET MODEL NUMBERS ARE FROM "BECKERMANN EXQUISITE KITCHENS" AND ARE ONLY PROVIDED TO INDICATE APPROXIMATE SIZE AND TYPE OF CABINET. APPROVAL OF "BECKERMANN" SUBJECT TO COMPLIANCE W/ SPECS AND SUBSTITUTIONS PAGE E1-1.



DEMOLITION NOTES:
SEE DRWG M1 FOR DEMOLITION OF EXISTING DUCTS (RETURN AIR AND SUPPLY AIR). PORTIONS OF DUCTS REMAIN.
SEE DRWG G-1 FOR EXTERIOR DEMOLITION WORK.
FIRE EXTINGUISHERS: TEMPORARILY REMOVE AND STORE. CO-ORDINATE WITH ARCHITECT NEW LOCATIONS.
PROVIDE BLOCKING AND REINSTALL.

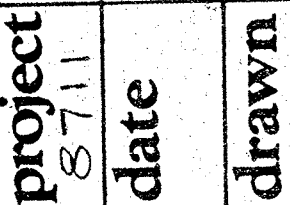


ALTERATIONS TO
ST MICHAEL'S CHURCH
29 NORTH AVE. MENDON, MA 01756
DEMOLITION PLAN & KITCHEN PLAN

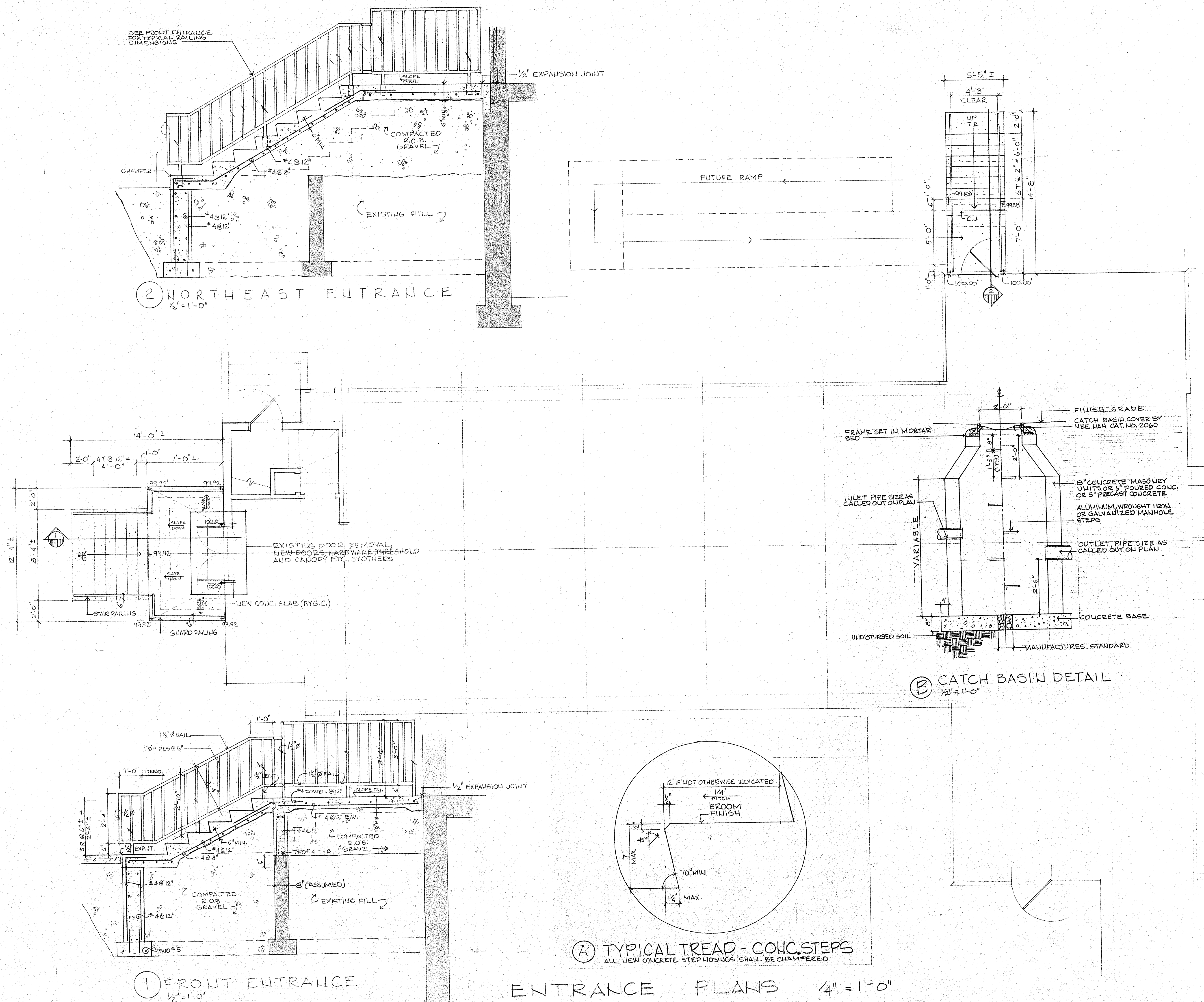
pab Pierre A. Belhumeur A.I.A. Architects
101 lovers lane, box 466, greenfield, MA 01302

project 8/11
date
drawn A.S.

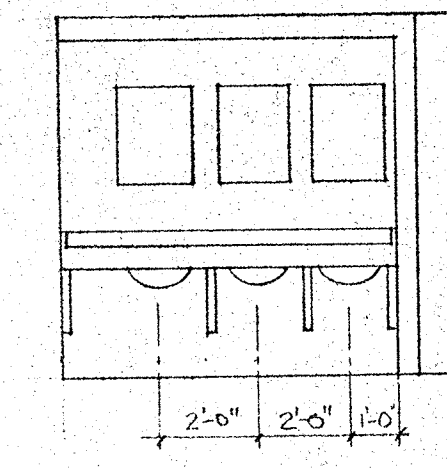
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ALTERATIONS TO
ST MICHAEL'S CHURCH
29 NORTH AVE MENDON MA 01756
ENTRANCE PLANS



HARDWARE SCHEDULE														
DOOR NO.	TYPE	SIZE	GLASS	HANDLE	LOCK	HINGES	STOP	WEATHER	STRIP	FLUSH	FLUSH	FLUSH	FLUSH	FLUSH
01	1	EXISTING												
02	1	EXISTING												
03	1	EXISTING												
04	1	EXISTING												
05	1	EXISTING												
06	1	EXISTING												
07	1	EXISTING												
08	1	EXISTING												
09	1	EXISTING												
10	1	EXISTING												
11	1	EXISTING												
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98	1	EXISTING												
99	1	EXISTING												
100	1	EXISTING												



ELEVATION OF TYPICAL SINK COUNTER SEE DETAILS DRWG A-2

NO.	ROOM TITLE	CEILING HEIGHT	N. WALL			E. WALL			S. WALL			W. WALL			FLOOR			BASE			REMARKS
			1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	
01	WOMEN	7'-6"																			
02	STORAGE	EXISTING																			
03	BOILER RM.	9'-9"																			
04	MEN	7'-6"																			
05	KITCHEN	8'-6"																			
06	HALL	7'-5"																			
07	STORAGE	EXISTING																			
08	ANTE ROOM	EXISTING																			
	STAIR "A"																				
	STAIR "B"																				

FLASH

WIRE GLASS
10050.11.

(A)

(B)

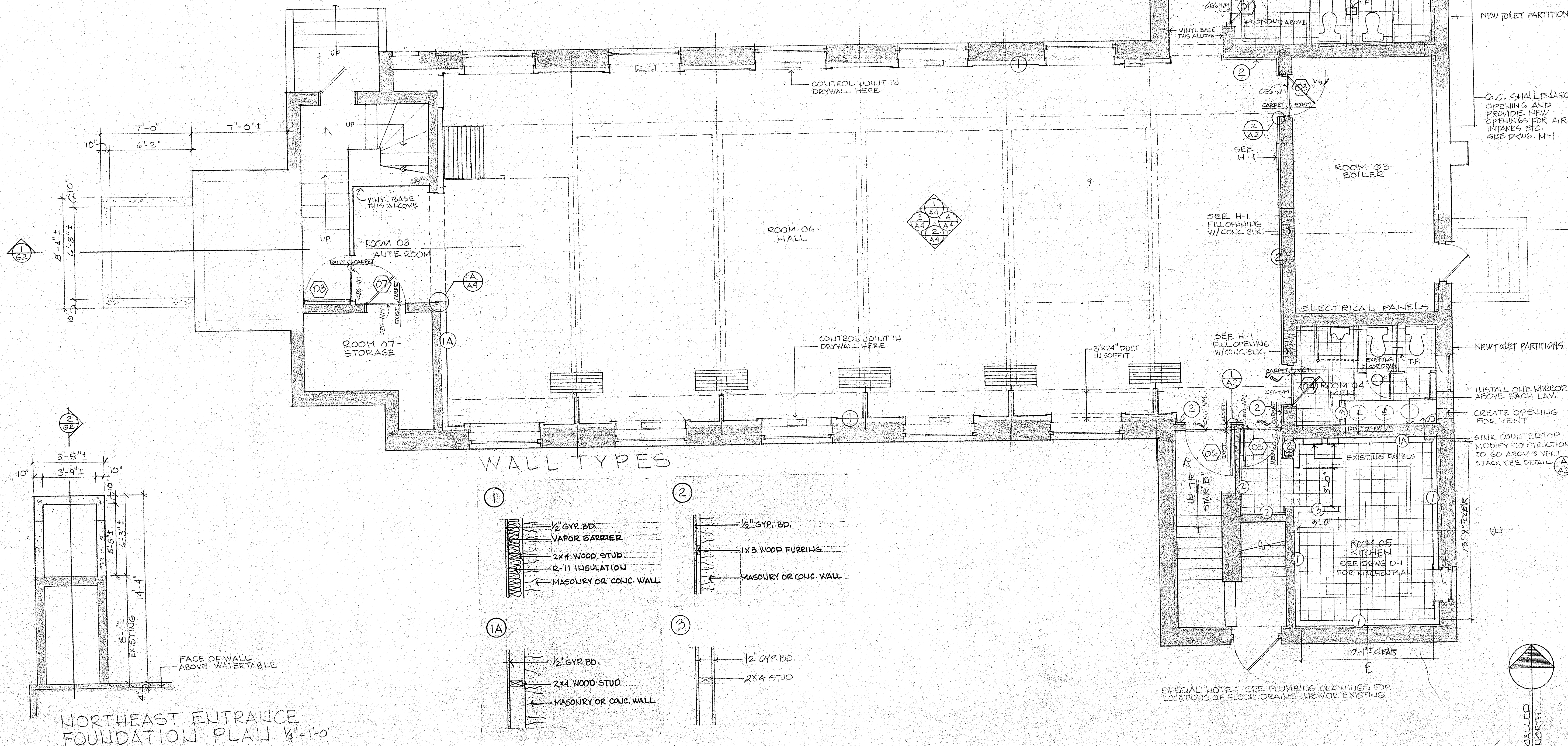
DOOR TYPES OPERABLE PARTITION DOORS NOT INCLUDED BELOW

DOOR SCHEDULE

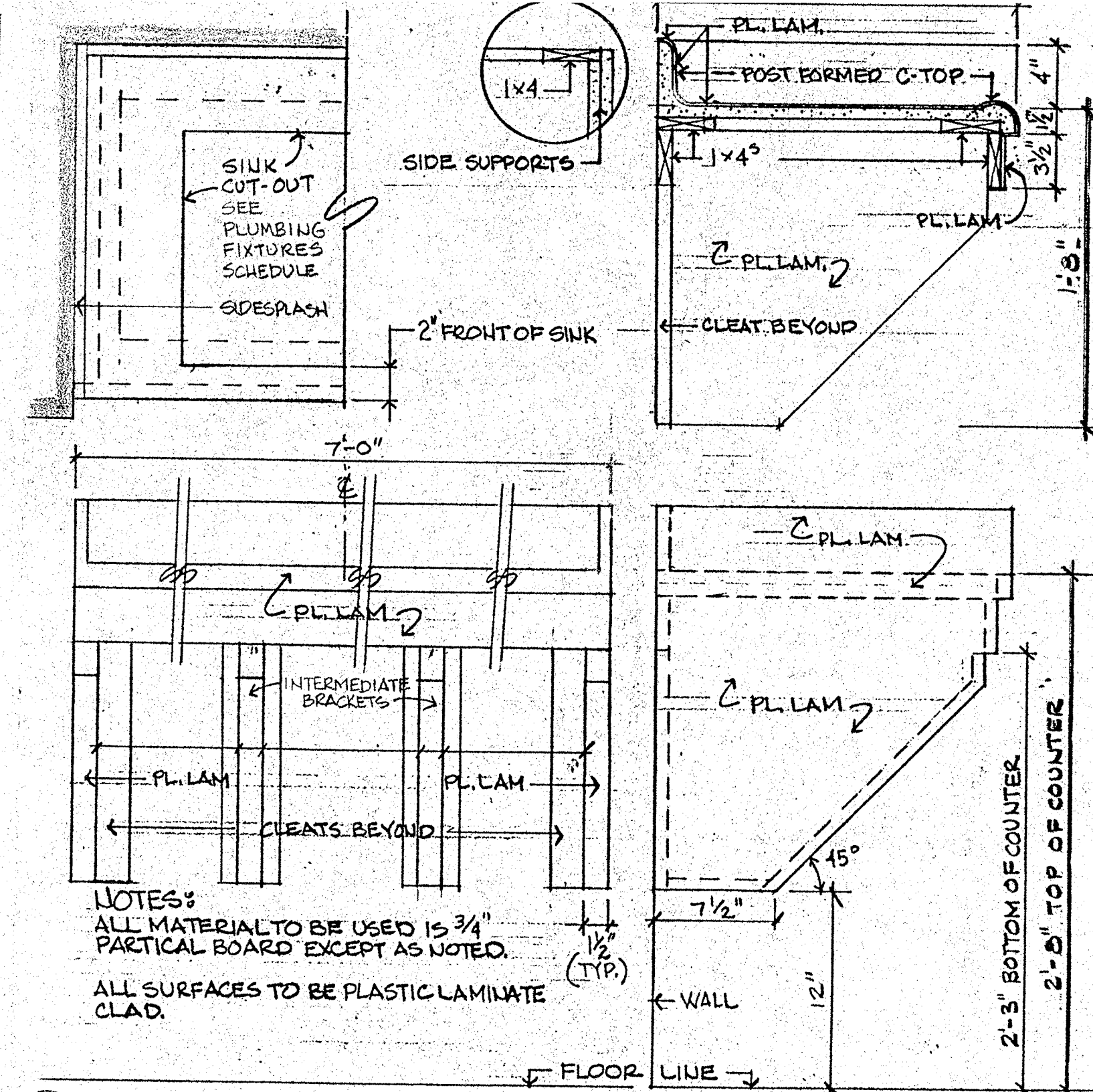
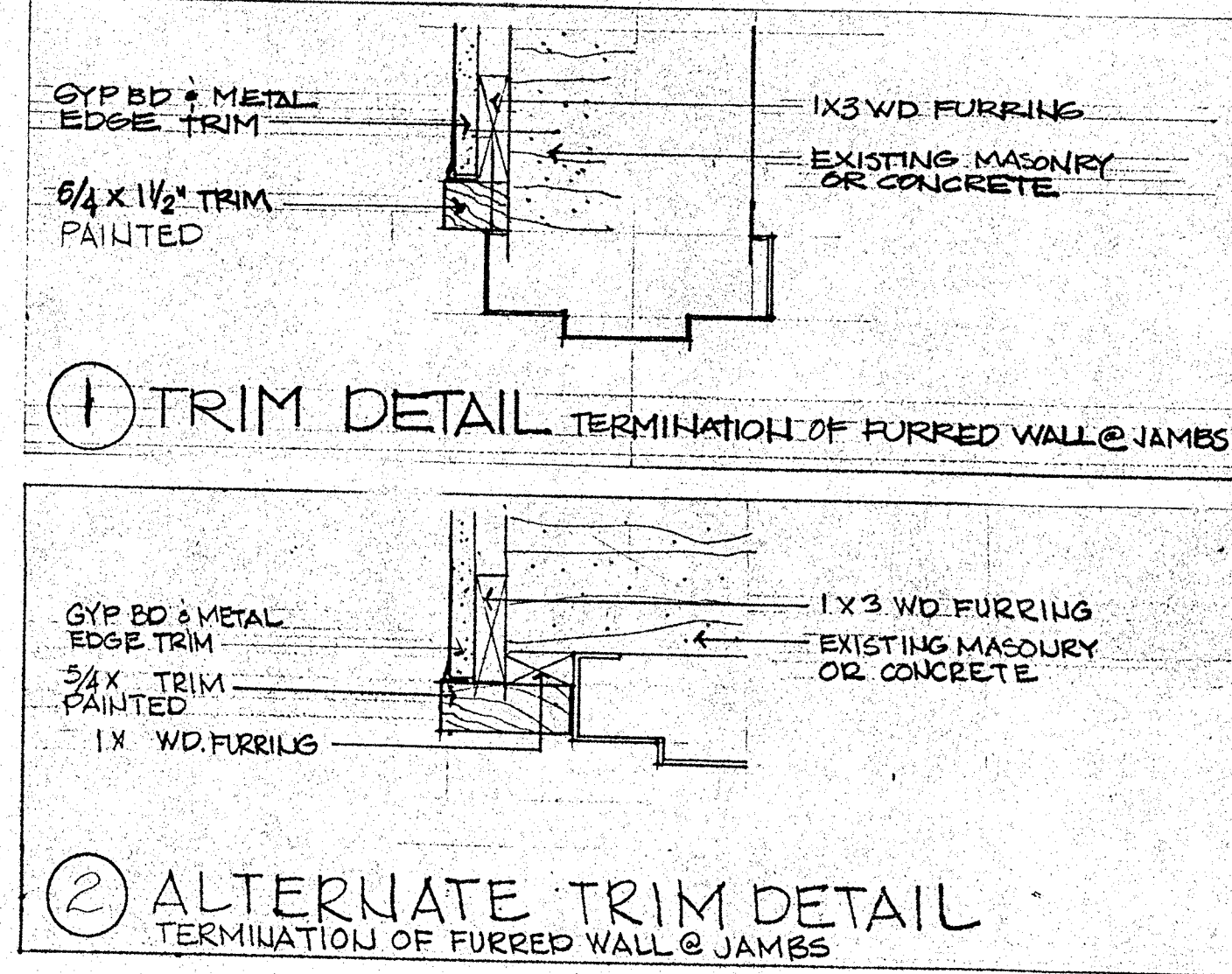
NO.	TYPE	SIZE	DOOR		FRAME		HAND	DETAILS			LABEL	REMARKS
			MAT. EXISTING	FIN. PAINT	MAT. EXISTING	FIN. PAINT		HEAD	JAMB	SILL		
01		1 EXISTING		PAINT		PAINT						
02		1 EXISTING	EXISTING	PAINT	EXISTING	PAINT						
03		1 3'-0" X 6'-7"	EXISTING	PAINT	EXISTING	PAINT						
04		1 3'-0" X 6'-7"	EXISTING	PAINT	EXISTING	PAINT						
05	A	1 3'-5 1/2" X 6'-7"	NEW WOOD	PAINT	EXISTING METAL	PAINT					C	
06	B	1 3'-4" X 6'-7"	NEW WOOD	PAINT	NEW METAL	PAINT					B	
07		1 3'-0" X 6'-7"	EXISTING	PAINT	EXISTING	PAINT						
08	B	1 3'-6" X 6'-7"	NEW WOOD	PAINT	EXIST MET.	PAINT					B	

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pab
 ALTERATIONS TO:
 ST. MICHAELS CHURCH
 29 NORTH AVE. MENDON, MA 01756
 LOWER CHURCH HALL - PLAN

project 101302
 date 10/1/88
 drawn AS

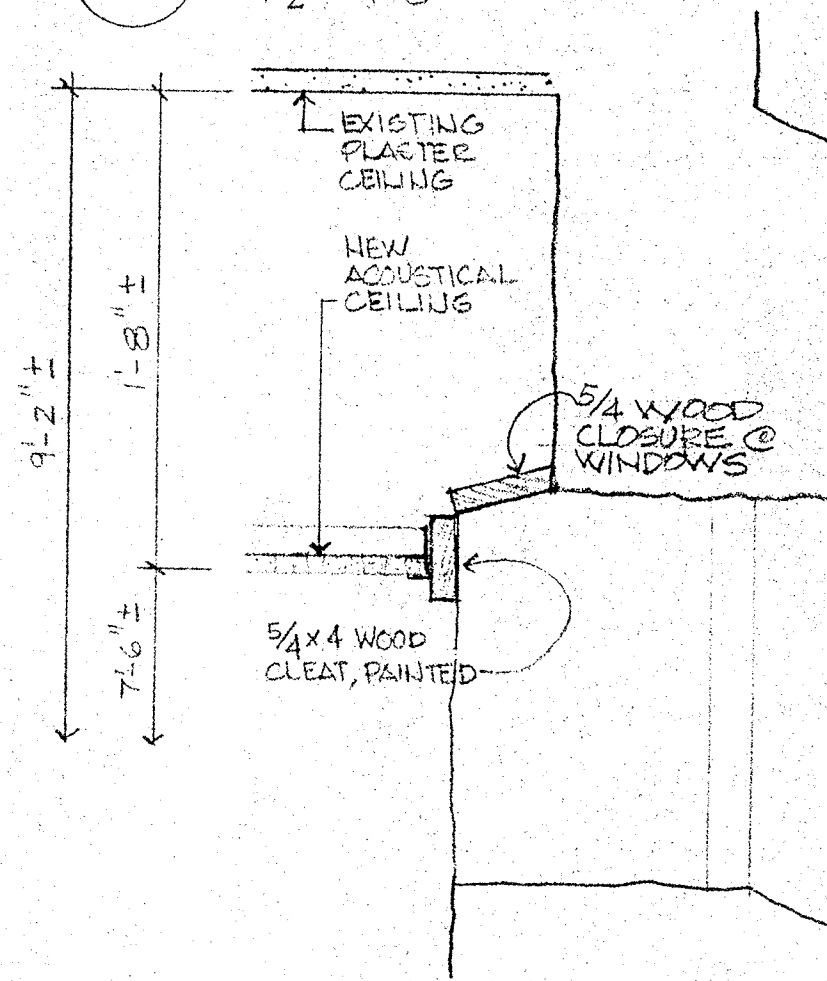


LOWER CHURCH HALL - PLAN 1/4" = 1'-0"

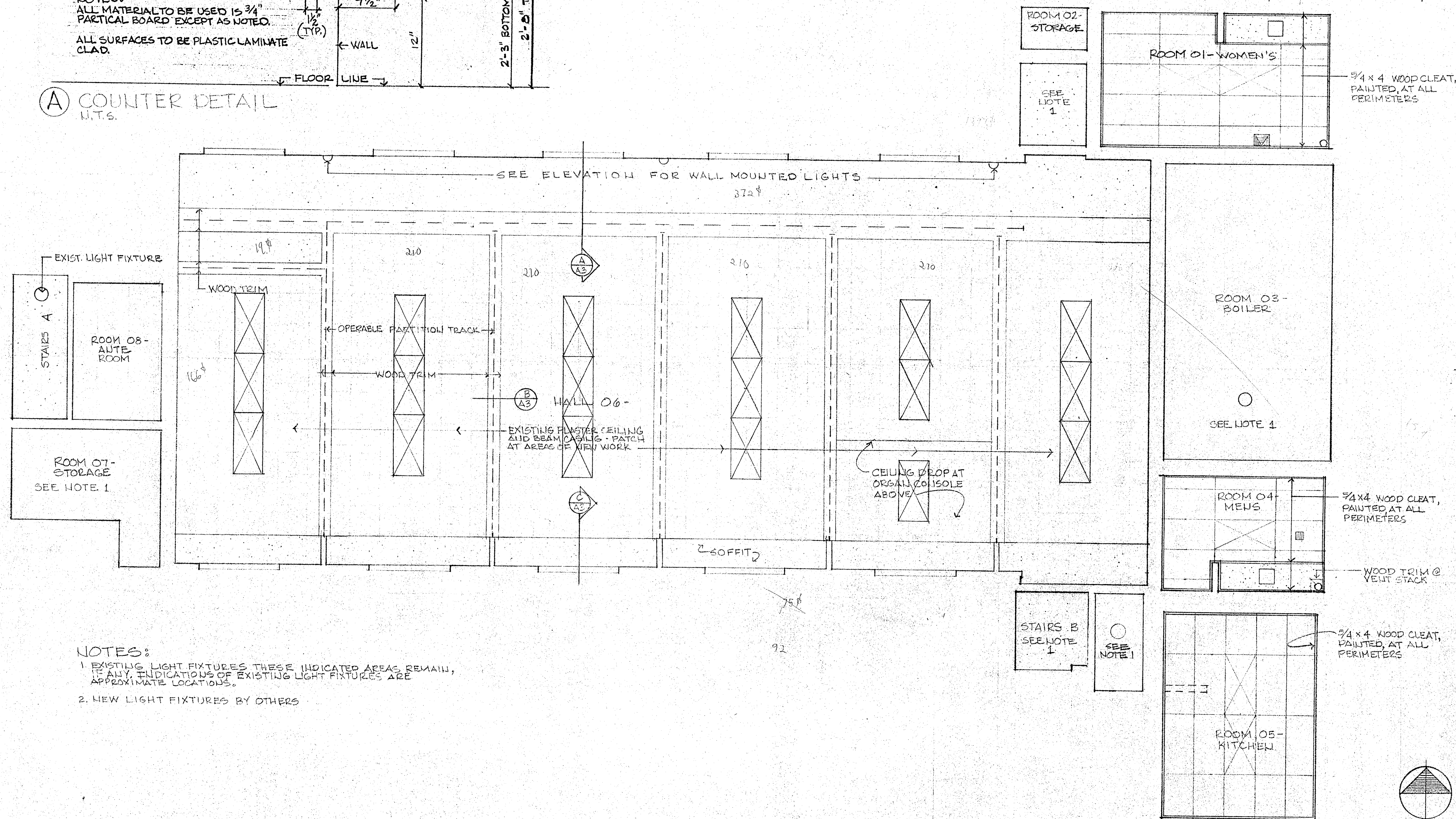
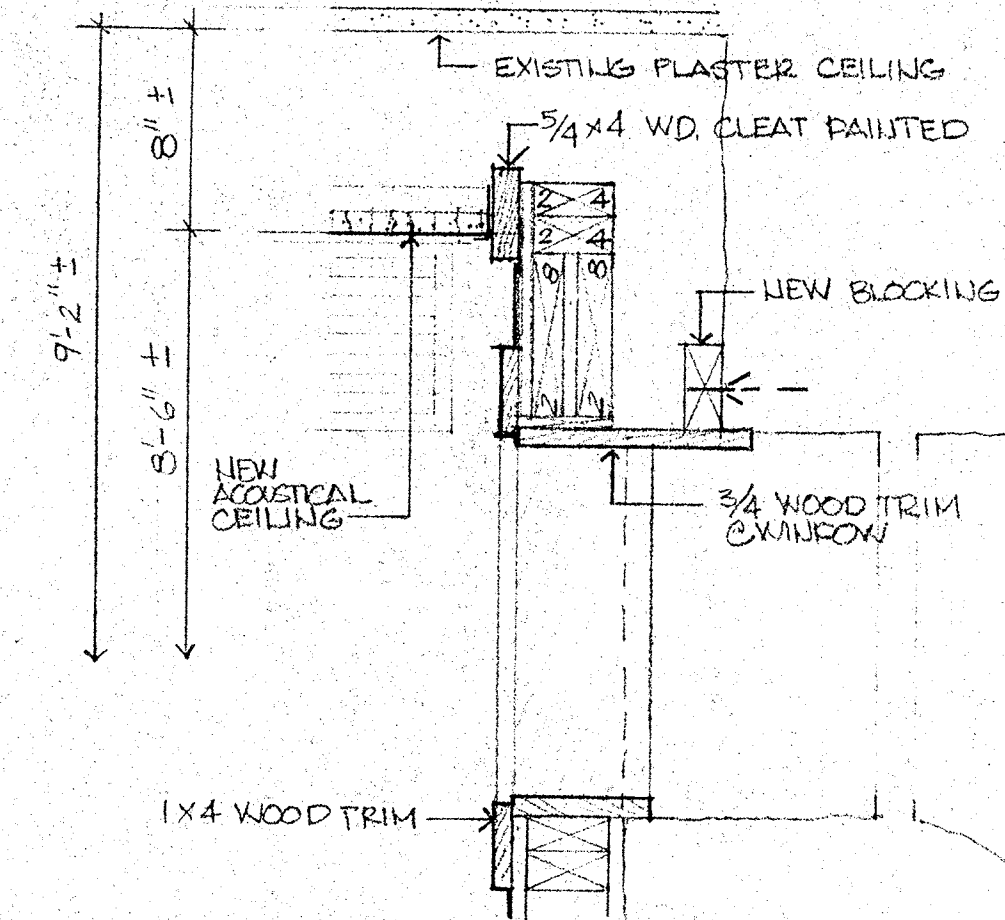


③ COUNTER DETAIL U.T.S.

③ RESTROOM CEILING DETAIL 1 1/2" = 1'-0"

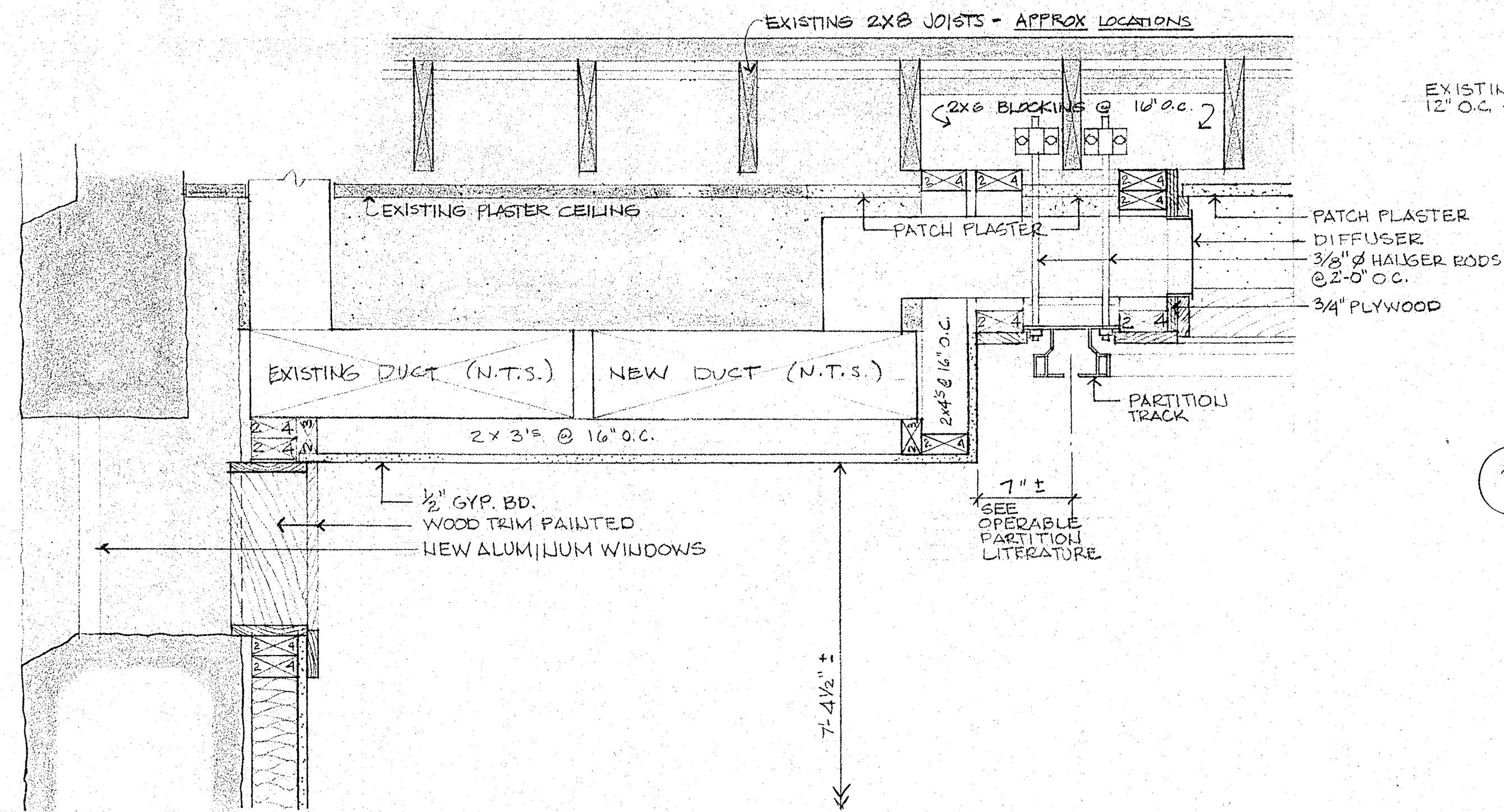


④ KITCHEN CEILING DETAIL 1 1/2" = 1'-0"

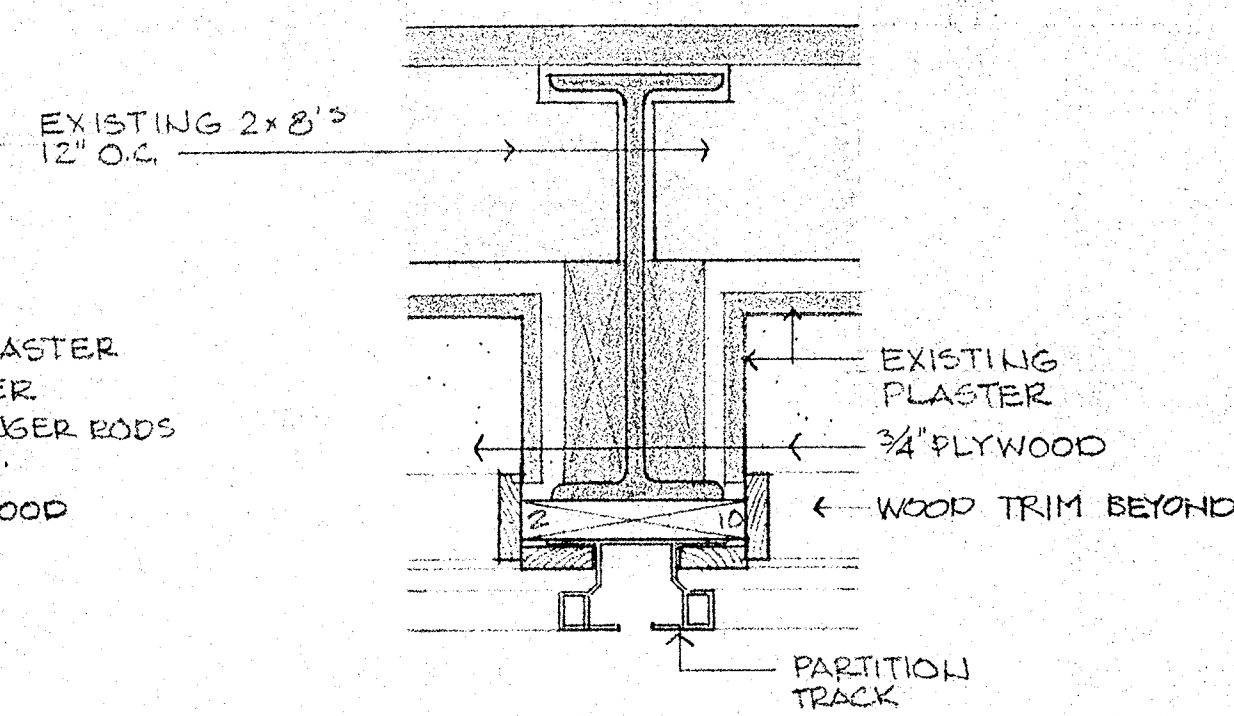


REFLECTED CEILING PLAN 1/4" = 1'-0"

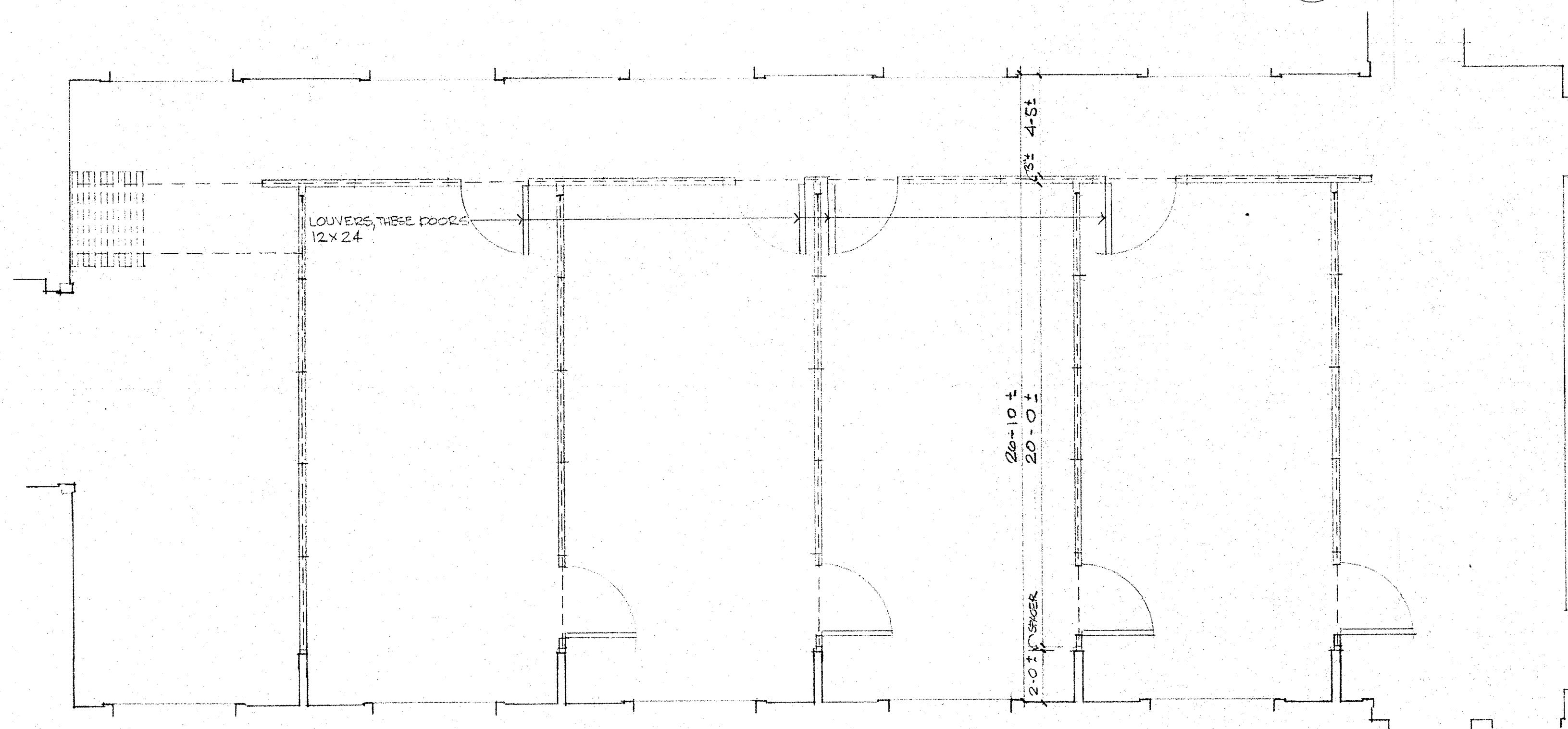
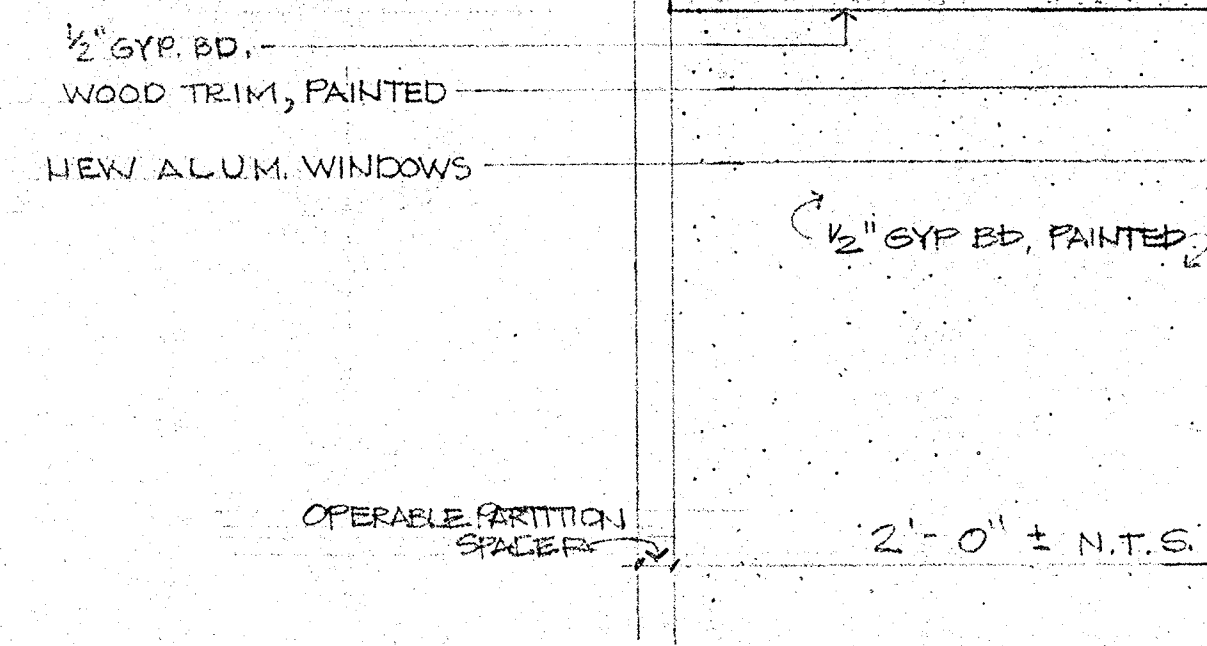
(A) CORRIDOR SOFFIT 1/2" = 1'-0"



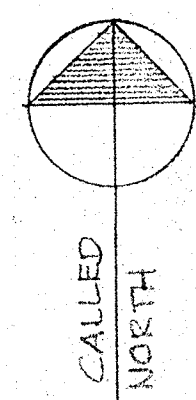
(B) OPERABLE PARTITION TRACK @ BEAM 1/2" = 1'-0"



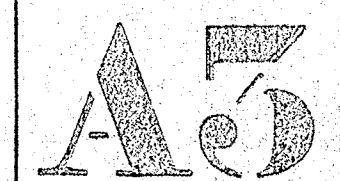
(C)



OPERABLE PARTITIONS PLAN
ALL OPERABLE PARTITION DOORS ARE 3'-0" WIDE



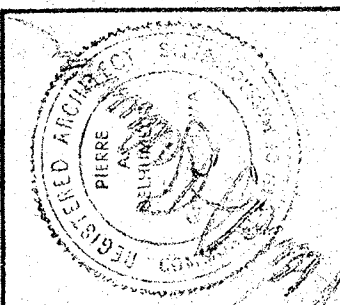
ALTERATIONS TO
ST MICHAEL'S CHURCH
29 NORTH AVE, MENDON, MA 01756
OPERABLE PARTITIONS PLAN & DETAILS

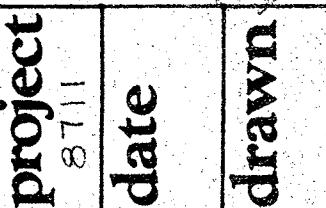


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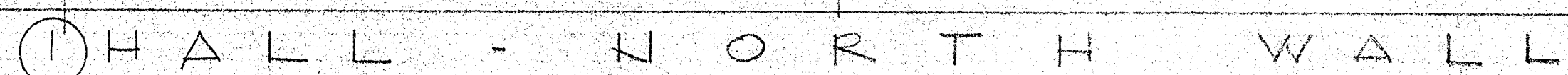
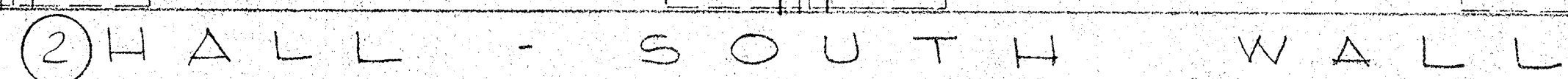
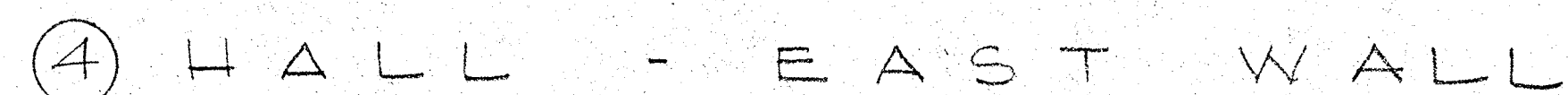
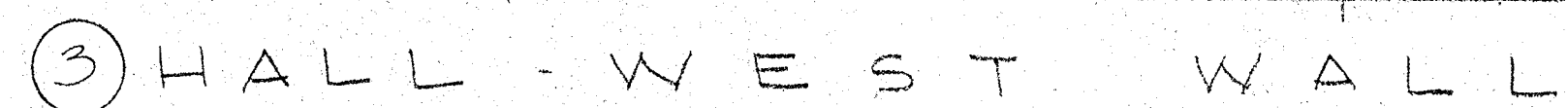
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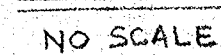
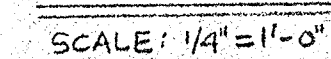
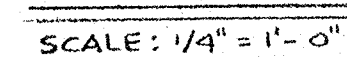
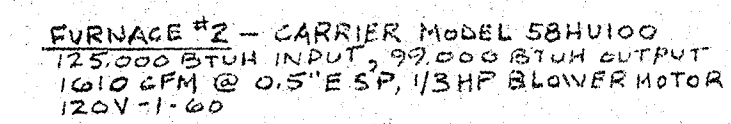
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date
drawn
DAC





A4


$$\frac{1}{2}'' = 1'-0''$$



IG & VENTILATING SPECIFICATION

Provide all labor, materials, equipment, services, and rigging to complete the work specified and shown on drawings.

All cutting, patching, structural work and flashing shall be by the General Contractor.

- Work Included: The following schedule is part but not necessarily all inclusive of the items in this section.

- Removal of existing oil-fired furnace and ductwork (as noted and shown on drawings).
- Installation of new oil-fired furnaces and accessories.
- Installation of new duct system.
- Exhaust fans.
- Registers, diffusers and louvers.
- Oil piping and accessories.
- Temperature controls.
- Start-up and guarantee.

- All materials not specifically specified, shall be the best of its respective kind.

- Materials shall comply with current specifications of the following standards, ASME, ASHRAE, IBR, AMCS, ASTM, NFPA, NBP, UL, USAS and OSHA.

- The drawings are diagrammatic and do not necessarily indicate every rise, drop or change in direction. Contractor shall be responsible for all offsets. Exact locations are subject to approval of Architect and Engineer.

- Six (6) copies of shop drawings and descriptive literature shall be submitted to the Engineer for approval for the following:

Oil-fired furnaces.
Exhaust fans.
Registers, diffusers
Louvers
Fire Dampers.

- Remove all obsolete material and dispose of properly.

- Protect all existing work and structure from damage.

- All work shall be guaranteed for a period of one year against defects in materials and workmanship.

- Piping: Oil - Type K soft-copper tube with flared fittings. No joints below floor slab.

12. Sheet Metal Work:

- Ductwork: Fabricated from galvanized zinc-coated sheet steel in accordance with NFPA and SMACNA Manuals. Gauges as listed in SMACNA Manuals.
- Chimney Connectors: Fabricated from 20-gauge steel with sealed seams and joints. Pitch 1/4" per foot.
- Flexible Connections: Fire retardant, flexible, heavy-impregnated canvas; Vent-Pab as manufactured by Ventfabrics, equal by Duro-Dyne or Flex-Hose.
- Louvers: Ruskin Mfg. Co. Model ELF-375 with birdscreen. Blades and frames minimum of .081 thickness. Anodized finish.
- Access Doors: 10" x 10", 1-inch thick, hinged with cam latch, 24-gauge door, 22-gauge frame, prime galvanized, gasketed. Install at each fire damper. Model HAD-10 as manufactured by CESCO, equal by Duro-Dyne.
- Fire Dampers: Underwriters' label, United Air Balance horizontal and vertical, 1-1/2 hour rated and so stamped. Furnish with sleeve, Type "B" as manufactured by Air Balance, Phillips-Aire, or Cleary-Haines.
- Volume dampers of splitter shall be constructed in accordance with details shown in the SMACNA Duct Manual, Section 2. Dampers shall be equipped with locking quadrants with position indication. Multiple blades over 8" duct size.
- Turning Vanes: Double thickness, as manufactured by Barber-Colman, Titus or Duro-Dyne.
- Registers and Diffusers:
Type "A": Titus Model TDC-AA with opposed blade damper, off-white finish.
Type "B": Titus Model 1700 with 07 adjustable back blades, opposed blade damper, off-white finish.
Type "C": Titus Model 33RL with opposed blade damper, off-white finish.

13. Structural Steel Supports:

- Provide all necessary steel and fabricate brackets, hangers and support stands as required for all ceiling and floor-mounted equipment, such as fans, heaters, ductwork, etc.
- Hangers: Adequate to support equipment and not cause vibrations.
- Anchoring: Properly secured to building structure by HVAC Contractor, by welding, nut and bolts, clamps, etc.
- Any improperly secured or fabricated supports shall be removed and replaced if in the Architect or Engineer's opinion they are inadequate.

- Toilet Exhaust Fans: Ceiling-mounted cabinet exhaust fans shall be Jenn-Air Model 400J (horizontal) or equal by Penn or Carnes. Capacity as shown on drawings. Provide time delay switches to allow fan to run for up to 15 minutes after light switch has been turned off.
- Hall 06 Exhaust Fan (EF-1): Exhaust fan shall be IIG Industries, Inc. Util-A-Set Type PCB925, adjustable V-belt drive centrifugal fan. Capacity as shown on drawing.
- Insulation: Insulate all new outdoor air ducts with 1-1/2" thick, 3/4 lb. density fiberglass foil-faced duct wrap FRK-25. SEE BELOW FOR CONSTRUCTION.
- Oil-Fired Furnace #1:

- The unit shall be a Jackson & Church Model SDF-30, self-contained, indirect fired, automatically-controlled heater, having an output capacity of 300,000 BTU/Hour and delivering 2,500 CFM. It shall have multiple flue gas passes. The combustion chamber (Primary Heating Surface) shall be fabricated of type 430, 16-gauge stainless steel. The flue gases shall pass through a steel (Secondary Heating Surface) one pass tubular economizer equipped with turblators.

- All economizer tubes shall be accessible for cleaning through an external access panel. This access shall be located at the same end of the unit as the burner and flue outlet.

- Excepting thermostat, all controls shall be factory installed including the safety control. Required motor starter, relays, transformers, switches, fuse holders, and sequencing controls shall be factory wired with suitable conduit and mounted in adequate enclosures of approved type. The entire unit shall operate automatically at the command of a room thermostat. A combination fan and limit control shall control the main blowers and operate to de-energize the burner if discharge air temperature becomes excessive.

- The main blower wheels shall be installed on a single heavy-duty shaft mounted in self-aligning ball bearings. They shall operate at the demand of a fan control and shall not operate until the discharge air has obtained a pre-determined temperature rise above inlet air.

- The pressure atomizing oil burner shall be factory mounted and wired. It shall be equipped with two-stage fuel unit, combustion air blower, motor, electric ignition assembly, and all components necessary to make a complete unitary burner assembly. The burner shall be designed for use with the particular furnace, produced by the furnace manufacturer to provide on responsibility for overall performance.

- The oil burner shall be equipped for controlled two-stage, high-low-off firing, including two-position damper motor, proportioning air damper, end switch, solenoid valves and necessary linkage to assure proper air-fuel ratio at all rates. All components of the burner shall be mounted, wired and fire tested prior to shipment from the manufacturer.

- Installation and operating instructions, wiring diagrams, and a permanent name and rating plate shall be provided with each unit. The complete unit shall be tested by the manufacturer prior to shipment.

- Accessories to include: stepdown transformer, disconnect switch and flat filter section.

- Oil-Fired Furnace #2: The unit shall be a Carrier Model 58HU100 having an output capacity of 99,000 BTU/Hour and delivering 1,610 CFM at 0.5" E.S.P., 1/3 HP, 120V-1-60. Oil burner shall be of the high-efficient flame retention head type. Heat exchanger shall have a twenty-year warranty. Furnace shall have side filter rack. Provide two (2) throwaway filters.

19. Temperature Controls:

- Furnace #1: Reuse existing thermostat located in upper level of church. Provide a ventilation (on-off) switch to be located next to existing thermostat.

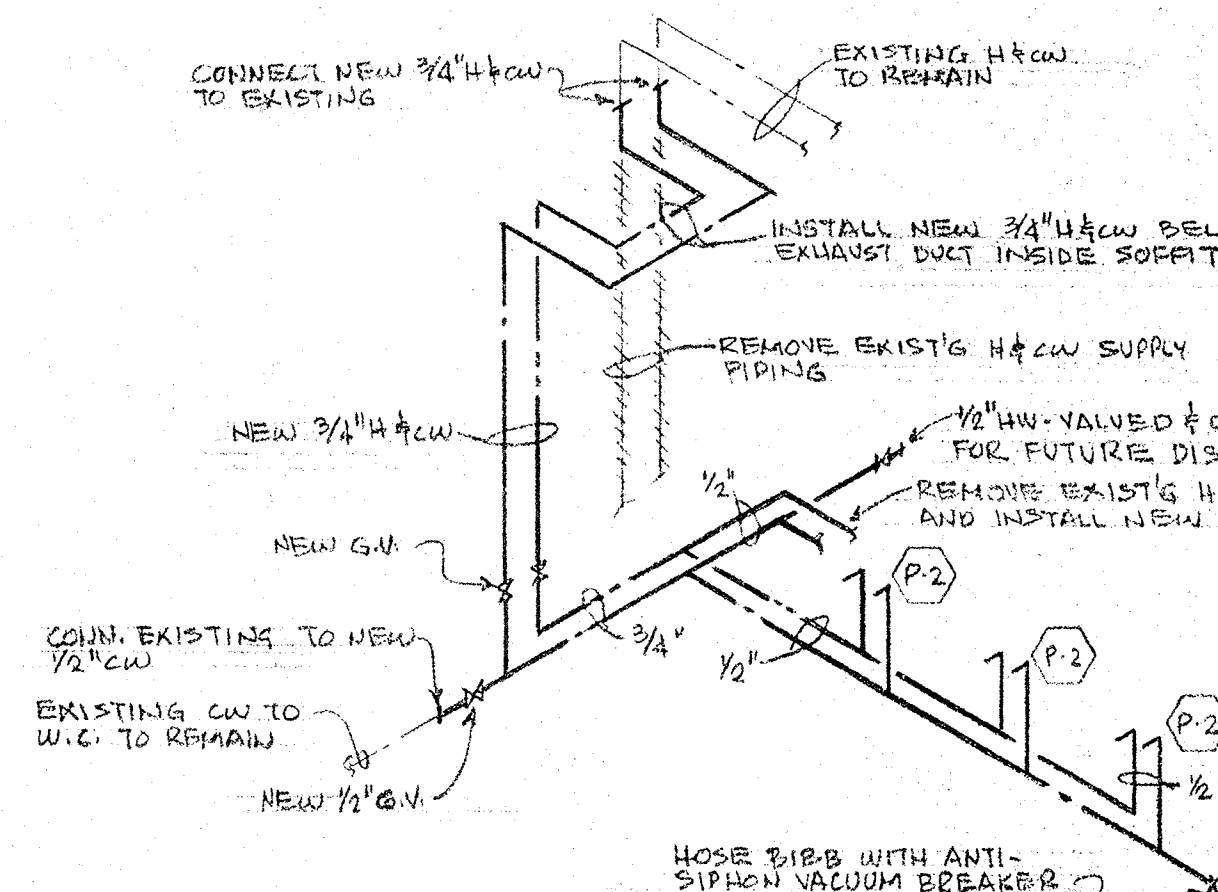
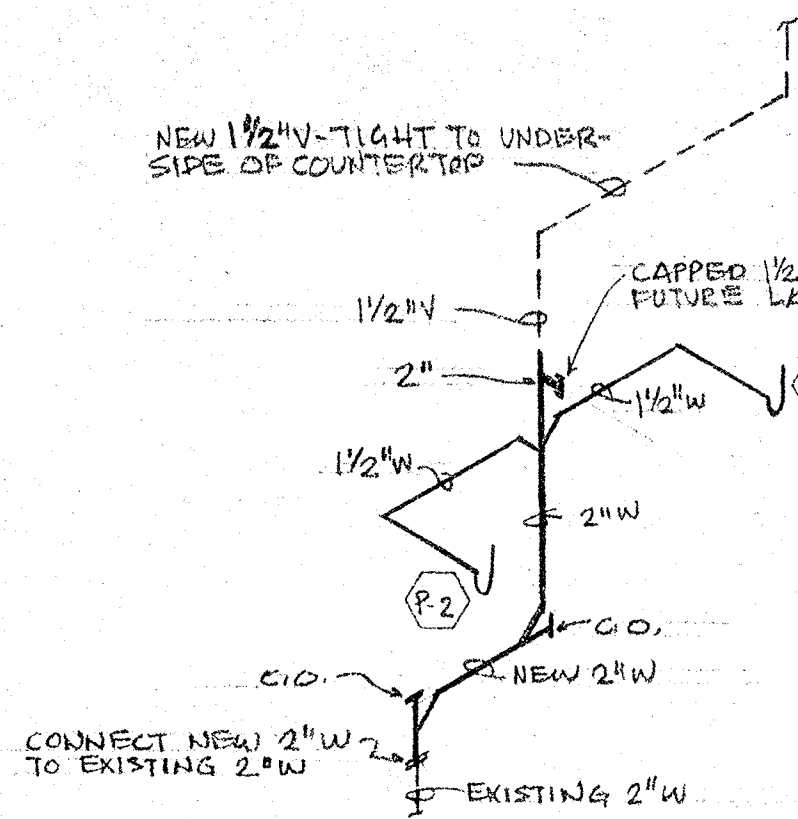
Sequence of Control: Unoccupied - space thermostat shall cycle furnace to maintain setpoint. Outdoor air damper shall be closed. Occupied - ventilation switch to be manually turned on. Outdoor air damper shall open. Fan shall run continuous. Burner shall stage fire to maintain thermostat setpoint and subsequent to an adjustable low limit discharge control.

- Furnace #2: Provide new thermostat and ventilation (on-off) switch located as shown on plans.

Sequence of Control: Unoccupied - space thermostat shall cycle furnace to maintain setpoint. Outdoor air damper shall be closed. Occupied - ventilation switch shall be manually turned on. Outdoor air damper shall open. Exhaust Fan EF-1 shall be activated (interlocked). Fan shall run continuous. Burner shall cycle to maintain thermostat setpoint and subsequent to an adjustable low-limit discharge control.

- The combustion air dampers shall be opened when either Furnace #1 or #2 is energized. The dampers shall close when all burners are off.

- * 10. INSULATION - CONT.: ALL FURNACE VENTS AND CHIMNEY CONNECTORS SHALL BE INSULATED WITH 1/2" THICK INSULATION, CALCIUM SILICATE WITH GLASS FABRIC COVERING, FITTINGS WITH EQUAL THICKNESS INSULATION CEMENT.

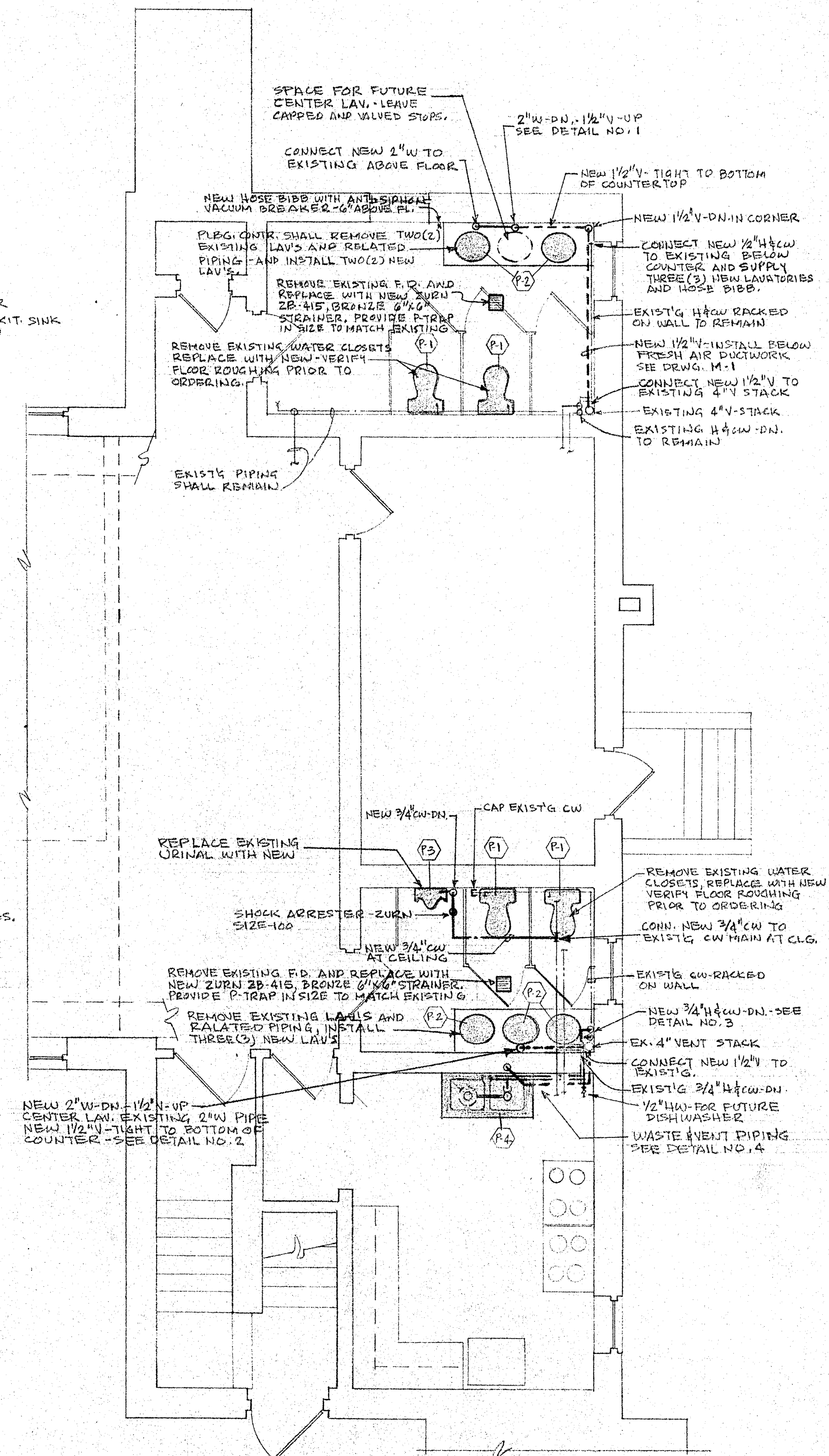
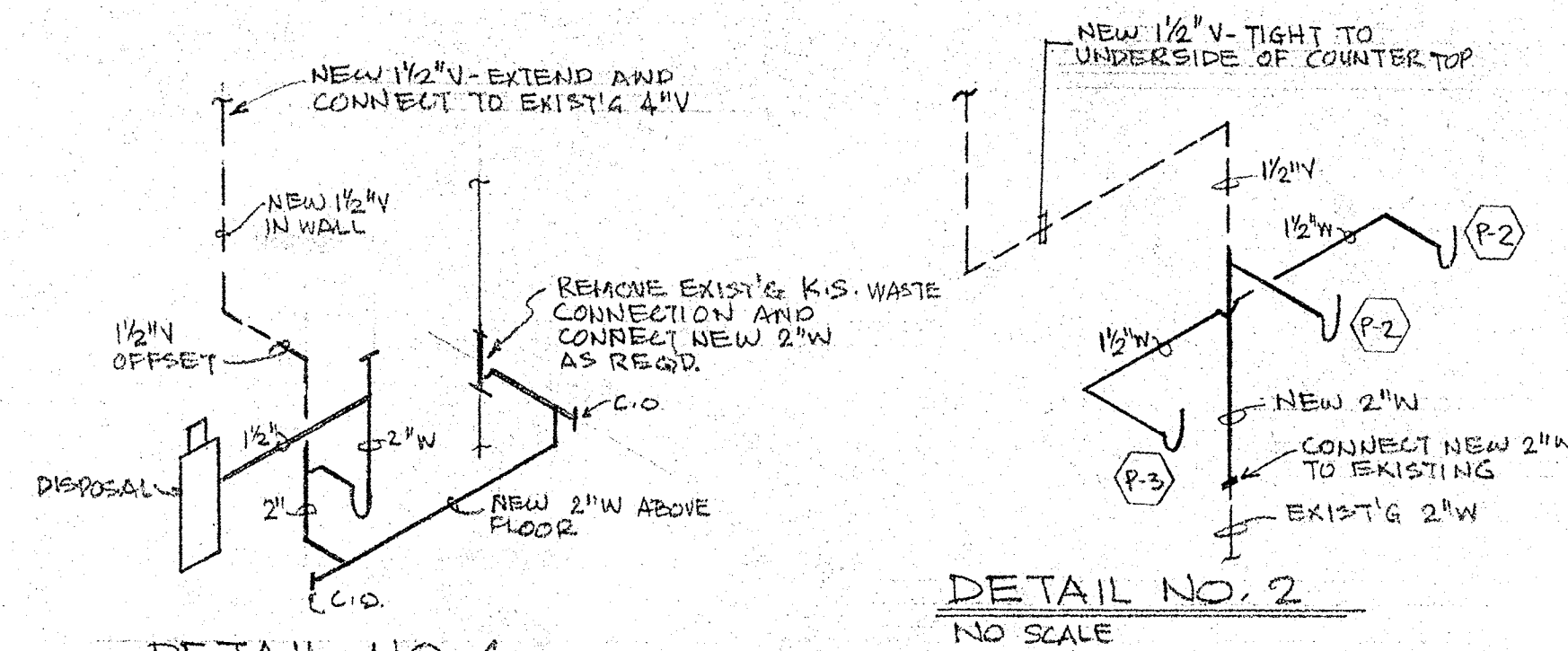


PLUMBING FIXTURES:

- WATER CLOSET - AMERICAN STANDARD FLOOR MOUNTED TANK TYPE VITREOUS CHINA MODEL 2109.405, ELONGATED CADET, PROVIDE SUPPLY STOP AND OLSONITE #95 ELONGATED WHITE PLASTIC SEAT W/OPEN FRONT. VERIFY ROUGHING OF EXISTING FIXTURES PRIOR ORDERING NEW.
- LAVATORY - AMER. STANDARD - COUNTERTOP LAV. AQUALYN MODEL 0476.028 1" CENTER VITREOUS CHINA SELF-RIMMING. DELTA 526 MPD, 4" CENTER LAV. FAUCET WITH SINGLE LEVER AND METAL POP-UP DRAIN. PROVIDE 1/4" X 1/2" P-TRAP AND SUPPLY STOPS.
- URINAL - AMER. STANDARD WASHROOM MODEL 0501.010 VITREOUS CHINA WASHWOT URINAL WITH TOP SPUD. PROVIDE WITH WALL HANGER, SLOAN 186 FLUSH VALVE WITH VACUUM BREAKER AND SCREW-DRIVER STOP.

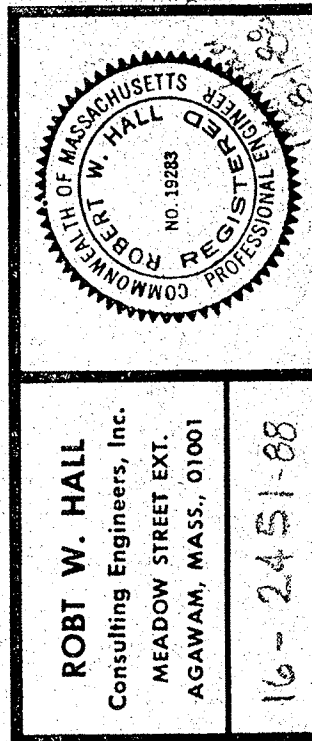
MATERIAL:

- ALL NEW WATER PIPING SHALL BE TYPE "L" COPPER PIPE AND FITTINGS. ALL JOINTS SHALL BE MADE-UP WITH 95/5 SOLDER.
- ALL NEW WASTE AND VENT ABOVE FLOOR SHALL BE TYPE "M" COPPER OR DWV WITH SOLDER JOINTS. ALL BELOW FLOOR WASTE SHALL BE SERVICE WEIGHT CAST IRON WITH LEAD AND SOLDER JOINTS.
- ALL NEW AND EXISTING EXPOSED HOT AND COLD WATER PIPING IN THE TWO TOILET ROOMS SHALL BE INSULATED WITH 1/2" THICK ARMAFLEX, INCLUDING VALVES.
- KITCHEN SINK - "JUST" MODEL DL-2237-A-GR, 18 GAUGE TYPE 304, 18-6 STAINLESS STEEL, TWO (2) COMPARTMENT, 22" X 31" OVERALL SIZE WITH TWO (2) 1/2" X 22" AT 1/2" DEEP BOWLS. SOUND DEADENED BOTTOM, GRIP RIM, PROVIDE ONE (1) J-35 CUP STRAINER, AND 3-HOLE POUNCED VEGE. FAUCET: DELTA 2174 HDE, COMMERCIAL GRADE 8" CENTER DECK FAUCET WITH 9/16" HIGH SWING SPOUT AND AERATOR, PROVIDE 4" LONG WRIST HANDLES. DISPOSAL - WASTE KING MODEL 2800, WITH STAINLESS STEEL TURNTABLE AND SWIVEL IMPELLERS, CUSHIONED SUSPENSION, SOUND INSULATED MOTOR, 1/2 HP 120 VOLT. PROVIDE P-TRAP AND SUPPLY STOPS.



PLUMBING - BASEMENT PART PLAN

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



project	date	drawn
8711		

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pab

ALTERATIONS TO
ST MICHAEL'S CHURCH
29 NORTH AVENUE, MENDOTA MA 01756
PLUMBING BASEMENT PART PLAN