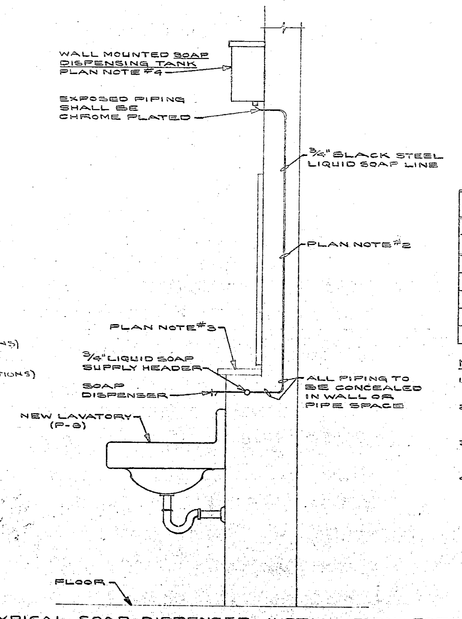
EXHAUST FAN SCHEDULE

NO.	AREA EXHAUSTED	FAN AIR MOVE. NUMBER	BACK-DRAFT DAMPER	CFM	S.P.	R.P.M.	H.P.	ELECTRICAL CONTROL	POWER CIRCUIT	REM. NOTE
1	A-118, A-120	102 BCR	14"x14"	1130	3/4"	810	1/4	AUTOMATIC	LPH-19	1, 2
2	A-113, A-114, A-119	80 BCR	8"x8"	360	1/4"	1350	1/8	AUTOMATIC	LPH-19	1, 2
3	A-104 & WARDROBES	95 BCR	8"x13"	600	1/4"	725	1/4	AUTOMATIC	LPH-21	1, 2
4	A-105, A-107	80 BCR	8"x8"	290	1/4"	1350	1/8	AUTOMATIC	LPH-21	1, 2
5	EXISTING #129	121 CDS	12"x12"	980	1/8	690	1/3	MANUAL	——	1, 3, 4, 5
6	EXISTING #132	101 CDS	10"x10"	620	1/8"	1080	1/6	MANUAL	——	1, 3, 4, 5
7	EXISTING #133	101 CDS	10"x10"	620	1/8"	1050	1/6	MANUAL	——	1, 3, 4, 5
8	EXISTING #134	86 CDS	8"x8"	510	1/8"	830	1/6	MANUAL	——	1, 3, 4, 5
9	EXISTING #136	101 CDS	10"x10"	620	1/8"	1050	1/6	MANUAL	——	1, 3, 4, 5

NOTES:

1. MOTOR DATA: 120 VOLT - 1 PHASE - 60 CYCLE.
2. INSTALL FAN ON CURB FURNISHED BY THE GENERAL CONTRACTOR (SEE SPECIFICATIONS)
3. INSTALL FAN ON PREFABRICATED ACOUSTICALLY TREATED CURB FURNISHED BY THE FAN MANUFACTURER & INSTALLED BY THE MECHANICAL CONTRACTOR (SEE SPECIFICATIONS)
4. SEE ELECTRICAL SHEET #E-1 FOR EXHAUST FAN ELECTRICAL SUPPLY.
5. THE GENERAL CONTRACTOR SHALL CUT THE EXISTING ROOF AND PROVIDE ALL ROOF FLASHING TO NEW EXHAUST FAN CURBS.
6. INSTALL FAN ON PREFABRICATED CURB FURNISHED BY THE FAN MANUFACTURER AND INSTALLED BY THE MECHANICAL CONTRACTOR. SEE SPECIFICATIONS.



TYPICAL SOAP DISPENSER INSTALLATION FOR EXISTING TOILET ROOMS

NOTES:

1. THE FOLLOWING EXISTING TOILET ROOMS SHALL HAVE NEW LAVATORIES AND SOAP DISPENSER. THIS WORK SHALL BE BID UNDER DIVISION #2.
   HIGH SCHOOL - GIRLS A-104 (3 LAVATORIES & SOAP DISPENSING SYSTEM)
   BOYS A-107 (3 LAVATORIES & SOAP DISPENSING SYSTEM)
   CENTRAL ELEMENTARY - GIRLS A-118 (4 LAVATORIES & SOAP DISPENSING SYSTEM)
   BOYS A-108 (4 LAVATORIES & SOAP DISPENSING SYSTEM)
   BAILLY ELEMENTARY - GIRLS B-108 (4 LAVATORIES & SOAP DISPENSING SYSTEM)
   BOYS B-108 (4 LAVATORIES & SOAP DISPENSING SYSTEM)
2. VERTICAL PIPING SHALL BE RUN IN STUD WALL IN ROOM A-104, IN PIPE SPACE IN ROOMS A-107, A-108, AND IN MASONRY WALL IN ROOMS A-118, B-108, & B-109. THE MECHANICAL CONTRACTOR SHALL DO ALL CUTTING AS REQUIRED TO MAKE THE COMPLETE INSTALLATION. THE GENERAL CONTRACTOR WILL REMOVE THE WALL TILES, PATCH AS REQUIRED, & REPLACE THE WALL TILES.
3. THE GENERAL CONTRACTOR WILL REMOVE & REPLACE THE MARBLE SILL AND DO ALL PATCHING REQUIRED. THE MECHANICAL CONTRACTOR SHALL DO ALL CUTTING REQUIRED TO INSTALL LIQUID SOAP LINE BELOW SILL.
4. THE SOAP DISPENSING TANK SHALL BE LOCATED AS DIRECTED BY THE ARCHITECT.

CONCRETE PIPE SCHEDULE

AIR DISTRIBUTION			STORM DRAINAGE		
SIZE	SPECIFICATION	CLASS	SIZE	SPECIFICATION	CLASS
12 TO 36	ASTM-C-116	STANDARD	12 TO 36	ASTM-C-76 TABLE II	STANDARD SEE NOTE #1

NOTE

1. EXTRA STRENGTH UNDER TRAFFIC AREAS.

FLOOR DRAIN & HOPPER DRAIN SCHEDULE

TYPE	J.R. SMITH		WADE		GENERAL LOCATION	SEE NOTE
	FLOOR DRAIN	TRAP	FLOOR DRAIN	TRAP		
A	2041-A	INTEGRAL	1120-CO	INTEGRAL	IN FINISHED AREA WHERE FLOORS ARE ON GRADE.	2
B	2240	4888 WITH 4081-CO	1700	W-8880-A	OUTDOOR STORAGE, TRANSPORTATION SHOP ETC.	3
C	3590-11	INTEGRAL	1120 CF	INTEGRAL	FAN ROOMS WITH FLOOR NOT ON GRADE.	4

NOTES:

1. ALL FLOOR, SHOWER, & HOPPER DRAINS SHALL BE FULL SIZE OF THE CONNECTING WASTE LINE SHOWN ON THE DRAWINGS UNLESS OTHERWISE NOTED.
2. ALL FLOOR DRAINS SHALL HAVE NICKEL BRONZE RIMS AND STRAINERS. THE STRAINERS SHALL HAVE A 5" MINIMUM DIAMETER OR TWICE THAT OF THE CONNECTING WASTE LINE, UNLESS OTHERWISE NOTED.
3. FLOOR DRAIN SHALL BE GALVANIZED IRON WITH LARGE BODY AND TOP AND WITH REMOVABLE EXTRA LARGE DEEP PERFORATED SEDIMENT BUCKET FOR EXTRA HEAVY DUTY. GRATE SHALL NOT BE MORE THAN 12" IN DIAMETER.
4. FLOOR DRAIN SHALL HAVE A POLISHED BRONZE STRAINER AND ADJUSTABLE INDIRECT WASTE FUNNEL.

ROOF PLAN NOTES

1. ALL VENTS NOT OTHERWISE NOTED ARE 3" PLUMBING VENTS
2. ALL WORK SHOWN ON THIS SHEET IS BY MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.
3. PROVIDE DECK CLEANOUTS FOR ALL ROOF DRAINS INSTALLED IN METAL DECK OR SIMILAR ROOF CONSTRUCTION
4. NO ROOF DRAIN SHALL BE SET WITHOUT PRIOR CONSULTATION WITH THE ARCHITECT'S FIELD REPRESENTATIVE. IN GENERAL, ALL ROOF DRAINS SHALL BE SET ON THE STRUCTURAL DECK AND NOT ON THE ROOF INSULATION.

ROOF DRAIN SCHEDULE

ROOF DRAIN NUMBER	SIZE	J.R. SMITH	JOSAM	WADE
NEW CANOPY DRAIN	4"	2101949	4190	W-3210
A-1, A-2, A-3, A-4, A-5	4"	2101010	4114	W-3516

PLUMBING FIXTURE SCHEDULE

ITEM	FIXTURE	WASTE	VENT	CW	HW	FIXTURE MOUNTING HEIGHT
P-1	WATER CLOSETS (WALL HUNG)	4"	2"	1"	—	15"
P-2	URINALS	2"	1 1/2"	3/4"	—	16"
P-3	LAVATORY WITH SOAP DISPENSER	1 1/2"	1 1/2"	1/2"	1/2"	27"
P-4	SERVICE SINK (FLOOR RECESSED)	3"	1 1/2"	3/4"	3/4"	6" TO TOP OF RIM
P-5	DOUBLE SINK UNIT (NOTE #4)	1 1/2"	1 1/2"	1/2"	1/2"	STANDARD
P-6	CABINET SINK (NOTE #6)	1 1/2"	1 1/2"	1/2"	1/2"	STANDARD
P-7	SINK UNIT (NOTE #4)	1 1/2"	1 1/2"	1/2"	1/2"	STANDARD
P-8	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	27"

NOTES:

1. ALL BRANCH SIZES SHOWN IN THE ABOVE SCHEDULE ARE INDIVIDUAL BRANCH SIZES TO FLUSH VALVES, FAUCETS, BUBBLERS, ETC.
2. WATER CLOSETS AND URINALS SHALL BE FLUSH VALVE OPERATED.
3. MECHANICAL CONTRACTOR SHALL CONSULT WITH THE ARCHITECT'S REPRESENTATIVE BEFORE ROUGHING-IN ANY WATER CLOSETS.
4. THIS CONTRACTOR SHALL FURNISH ALL MATERIAL AND LABOR TO ROUGH-IN AND HOOK UP COMPLETE, INCLUDING THE FURNISHING AND INSTALLATION OF ALL TRIM EXCEPT THE DRUMS CUP, TAIL PIECE, AND STRAINER. SEE SPECIFICATIONS.
5. ALL FIXTURES, INCLUDING WATER COOLERS AND DRINKING FOUNTAINS, SHALL HAVE A CHROME PLATED KEY OPERATED VALVE EXPOSED AT THE FIXTURE.
6. THIS CONTRACTOR SHALL FURNISH ALL MATERIAL AND LABOR TO ROUGH-IN AND HOOK-UP COMPLETE. SEE SPECIFICATIONS.

HEATING, VENTILATING, & AIR-CONDITIONING LEGEND

NAME	SYMBOL	ABBREVIATION
HEATING SYSTEM WATER SUPPLY	—— S ——	S
HEATING SYSTEM WATER RETURN	—— R ——	R
GATE VALVE		
CHECK VALVE		
TEMPERATURE REGULATING VALVE		
GLOBE VALVE		
STRAINER		
PIPE ANCHOR		
UNION		
PLUG VALVE OR BALANCING COCK		
PIPING DROP WITH RESPECT TO FLOW		
PIPING RISE WITH RESPECT TO FLOW		
PIPING TEE OUT TOP		
PIPING TEE OUT BOTTOM		
HOSE BIBB		H. B.
THERMOSTAT	LO LO LO	C-CHOKED, N-NIGHT
AIR VENT		
SUPPLY AIR OUTLET	1'-0"x0'-6"	12"x8" OUTLET SIZE
RETURN & EXHAUST AIR INLET	1'-0"x0'-6"	12"x8" INLET SIZE
DUCT DROP WITH RESPECT TO FLOW		
DUCT RISE WITH RESPECT TO FLOW		
BALANCING DAMPER		
EXHAUST DUCT FROM CEILING PLENUM		
DUCT (1st FIG-WIDTH-2nd-DEPTH)		
SUPPLY DUCT SECTION		
EXHAUST OR RETURN AIR DUCT SECTION		
STEAM SUPPLY	—— S ——	
CONDENSATE RETURN	—— C ——	
REFRIGERATION SUCTION	—— S ——	
REFRIGERATION LIQUID	—— L ——	

PLUMBING LEGEND

NAME	SYMBOL	ABBREVIATION
COLD WATER	—— C ——	C.W.
120° HOT WATER	—— H ——	H.W.
DOMESTIC HOT WATER RETURN	—— H.W.R. ——	H.W.R.
CAST IRON STORM DRAIN	—— S ——	S.
CAST IRON SANITARY WASTE	—— W ——	W
JRIFIED TILE STORM SEWER	—— V.T.S. ——	V.T.S.
VITRIFIED TILE SANITARY SEWER	—— V.T. ——	V.T.
VITRIFIED TILE COMBINATION SEWER	—— V.T.C.S. ——	V.T.C.S.
PLUMBING VENTS	- - - - - -	
SILL COCK	B.S.	S.C.
HOSE BIBB	H.B.	H.B.
ROOF DRAIN	R.D.	R.D.
FLOOR DRAIN	F.D.	F.D.
HOPPER DRAIN	H.D.	H.D.
OPEN SITE DRAIN	O.D.	O.D.
BALANCING COCK	B.C.	B.C.
GATE VALVE	G.V.	G.V.
CHECK VALVE	C.V.	C.V.
INSIDE ROOF CONDUCTOR	R.C.	R.C.
CLEAN OUT	C.O.	C.O.
WATER CLOSET	W.C.	W.C.
URINAL	U.R.	U.R.
LAVATORY	LAV.	LAV.
SERVICE SINK	S.S.	S.S.
DRINKING FOUNTAIN	D.F.	D.F.

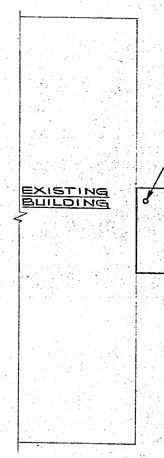
GENERAL MECHANICAL NOTES

(APPLY TO ALL SHEETS)

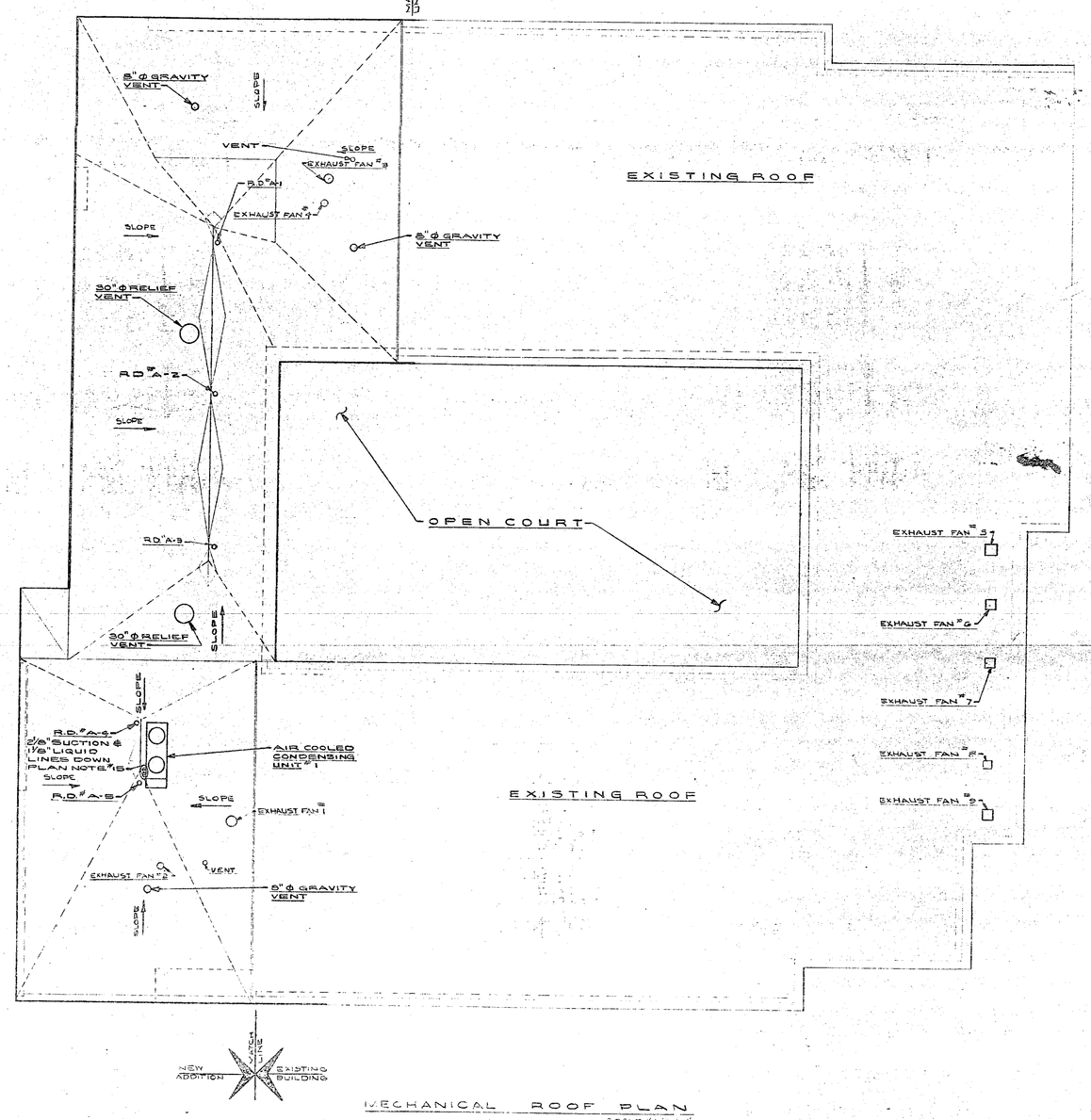
1. ALL WORK SHOWN IS NEW AND BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.
2. ALL DASHED LINES NOT OTHERWISE NOTED ON THE PLANS INDICATE LOCATION OF TOPLITES, SUNHEADS, CANOPIES, OR ROOF OVERHANGS PROVIDED BY THE GENERAL CONTRACTOR.
3. SEE ARCHITECTURAL SECTIONS FOR DETAILS OF FINNED TUBE RADIATION INSTALLED BY THE MECHANICAL CONTRACTOR IN HEATING ENCLOSURES PROVIDED BY THE GENERAL CONTRACTOR.
4. ALL THERMOSTATS SHALL BE APPROXIMATELY 4'-6" ABOVE FINISHED FLOOR AND LINED UP VERTICALLY WITH LIGHT SWITCHES UNLESS OTHERWISE NOTED OR DIRECTED BY THE ARCHITECT.
5. ARROWS ON HOT WATER MAINS INDICATE DIRECTION OF FLOW. PITCH MAINS UP A MINIMUM OF 1" IN 50'-0" IN DIRECTION OF SUPPLY WATER FLOW.
6. ALL AUTOMATIC TEMPERATURE REGULATING VALVES SHALL BE SIZED FOR FIVE POUND WATER PRESSURE DROP.
7. PROVIDE DRAIN VALVES INSIDE ENCLOSURES OF ALL HEATING UNITS WHICH ARE SUPPLIED FROM OVERHEAD MAINS.
8. ALL AIR CONDITIONING SUPPLY DUCTWORK TERMINATING AT DIFFUSERS AND REGISTERS SHALL BE LINED WITH 1" INSULATION. ALL OUTDOOR AIR INTAKE DUCTS SHALL BE COVERED WITH 1" INSULATION. RETURN DUCT WORK SHALL NOT BE INSULATED UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL DUCT SIZES SHOWN ARE SHEET METAL DIMENSIONS.
9. ALL DUCTWORK RUN ABOVE CEILING SHALL BE RUN TO AVOID LIGHTING FIXTURES, JOISTS, BEAMS, ETC., AS APPROVED BY THE ARCHITECT.
10. PROVIDE A MANUAL BALANCING DAMPER IN EACH ZONE DUCT OFF ALL MULTI-ZONE AIR HANDLING UNITS AS CLOSE TO UNITS AS POSSIBLE.
11. ALL DOMESTIC WATER, ETC., BRANCH PIPING SHOWN, WITHOUT SIZE INDICATED SHALL BE A MINIMUM OF 3/4".
12. VALVE ALL HEATING SYSTEM WATER, AND DOMESTIC WATER BRANCHES IN FAN ROOM, AND PIPE SPACES.
13. ALL PIPING IN PIPE SPACES SHALL BE RUN AS CLOSE TO WALL AS POSSIBLE TO ALLOW MAXIMUM ACCESS.
14. SEE SPECIFICATIONS FOR STANDARD MECHANICAL DETAILS, WHICH APPLY TO ALL MECHANICAL SHEETS.
15. THE GENERAL CONTRACTOR SHALL PROVIDE PITCH POCKET FOR REFRIGERATION LINES.

AIR COOLED CONDENSING UNIT #1:

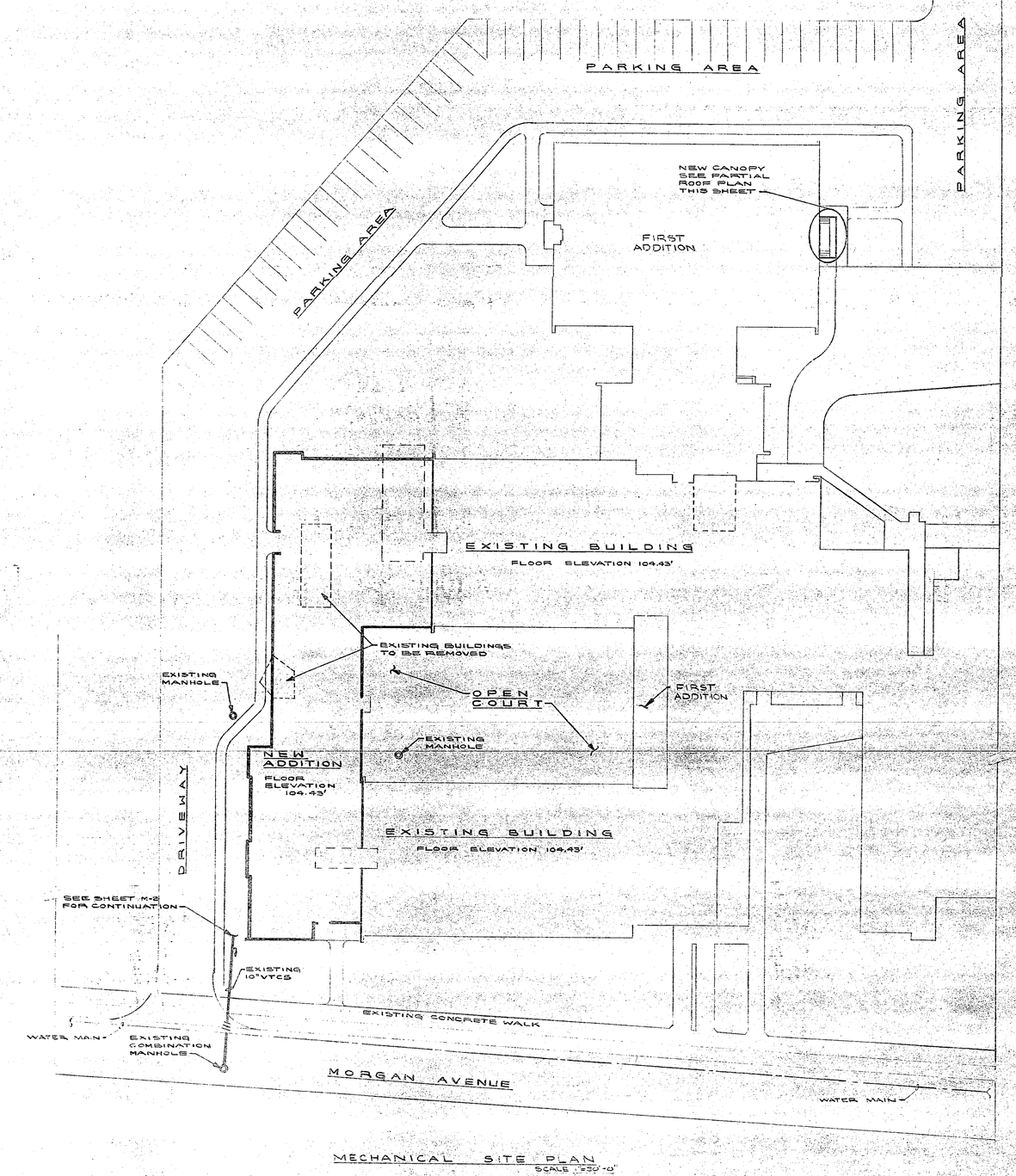
TRANE MODEL # RAW003 OR AN APPROVED EQUAL. COOLING CAPACITY OF 3140,000 BTUH @ 95° F SUCTION TEMPERATURE, STEPS OF CAPACITY; 100%, 66.67%, 50%, 33.33%. PROVIDE FIELD INSTALLED HOT-GAS BY-PASS FOR CAPACITY REDUCTION BELOW 33.33%. COMPRESSOR MOTOR DATA: 20.3 KW, 208 VOLTS, 3 PHASE, 60 CYCLES. CONDENSER FAN MOTOR DATA: 3 H.P., 208 VOLT, 3 PHASE, 60 CYCLES. SEE SHEET M-2 FOR PROPOSED REFRIGERATION PIPING DIAGRAM WITH UNIT APPROVAL SHOP DRAWINGS. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ADDITIONAL SUPPORTING STEEL NECESSARY TO MOUNT CONDENSING UNIT ON THE BEAMS SHOWN ON SHEET S-2.



PARTIAL ROOF PLAN
SCALE: 1/8"=1'-0"



MECHANICAL ROOF PLAN
SCALE: 1/8"=1'-0"



MECHANICAL SITE PLAN
SCALE: 1"=30'-0"

EVERETT I. BROWN COMPANY -- ARCHITECTS & ENGINEERS
5500 BRADBURY AVENUE — PARK FLETCHER
INDIANAPOLIS INDIANA

SHEET M-1 OF 8

ADDITION TO CENTRAL ELEMENTARY SCHOOL