

CLIFTON PARK ELEMENTARY SCHOOL

REROOFING AND H.V.A.C. REPLACEMENT

KILLEEN INDEPENDENT SCHOOL DISTRICT
KILLEEN, TEXAS

DESIGN TEAM

OWNER

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(214) 580-1217

STRUCTURAL CONSULTANT

TEN EYCK-MERRITT-BARNETT-PITT
2301 North Akard Street, Suite 405
Dallas, TX 75201
(214) 871-2302

ARCHITECTURAL DESIGN CRITERIA

- I. APPLICABLE CODES AND REGULATIONS
 - A. 1991 STANDARD BUILDING CODE.
 - B. 1988 STANDARD EXISTING BUILDING CODE WITH 1991 REVISIONS.
- II. CLASSIFICATION AND CONSTRUCTION TYPE
 - A. OCCUPANCY: GROUP E EDUCATIONAL
 - B. CLASS A ROOFING SYSTEM
- III. BUILDING AREAS (GROSS AREA) REROOFING
EXISTING:

AREA	28,478 SF
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MECHANICAL & PLUMBING DESIGN CRITERIA

- I. APPLICABLE CODES AND STANDARDS
 - A. ASHRAE - LATEST EDITION
 - B. SMACNA - LATEST EDITION
 - C. STANDARD MECHANICAL CODE - 1988 EDITION
 - D. STANDARD PLUMBING CODE - 1980 EDITION
- II. DESIGN CONDITION
 - A. OUTSIDE SUMMER - 100°F DB/70°F WB
 WINTER - 10°F
 - B. INSIDE SUMMER - 75°F
 WINTER - 70°F
- III. HVAC SYSTEMS
 - A. ROOF MOUNT GAS/ELECTRIC A/C UNITS AT CLASSROOMS AND CORRIDORS.
 - B. THERMOSTAT (HEATING/COOLING) TO CONTROL EACH UNIT.
 - C. HEATING CAPACITY - CLASSROOM - 63 BTU/SF
 - D. COOLING CAPACITY - CLASSROOM - 45.5 BTU/SF
 - E. VENTILATION CAPACITY - 5 CFM/STUDENT
- IV. PLUMBING SYSTEMS
 - A. COMPLETE STANDARD SYSTEMS ARE INCLUDED AS FOLLOWS:
 1. CONDENSATE DRAINAGE.
 2. ROOF DRAINS AND APPURTENANCES.
 3. GAS PIPING AND GAS METER RENOVATION.

ELECTRICAL DESIGN CRITERIA

- I. APPLICABLE CODES AND STANDARDS
 - A. STANDARD BUILDING CODE - 1988 EDITION WITH 89/90 REVISIONS.
 - B. NFPA 70 (NEC) NATIONAL ELECTRICAL CODE - 1990 EDITION.
- II. SYSTEMS DESCRIPTION
 - A. DISTRIBUTION VOLTAGE - 120/240 VOLT, SINGLE PHASE, 3 WIRE

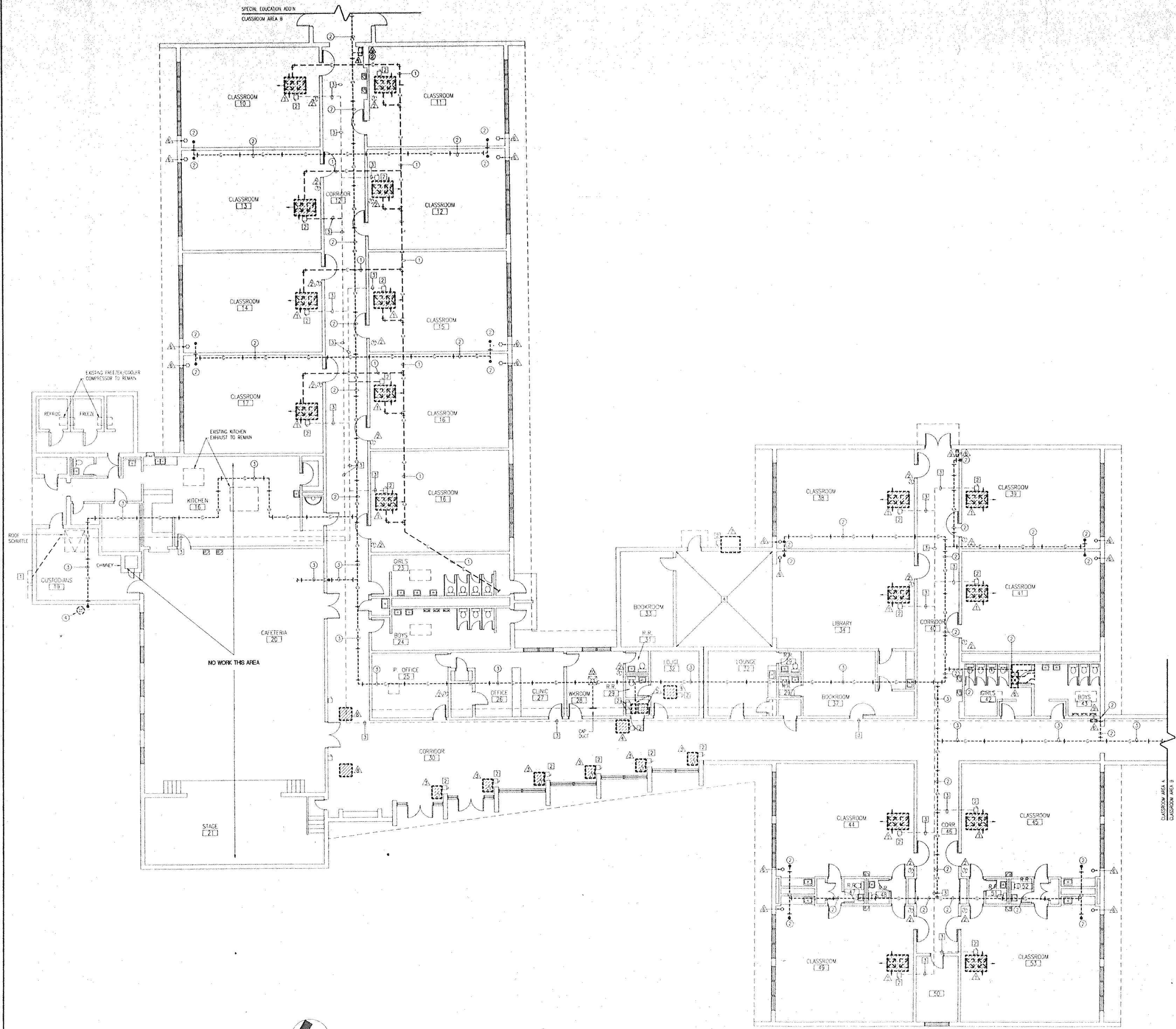
INDEX OF DRAWINGS CLIFTON PARK

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8.02	MECHANICAL/ELECTRICAL FLOOR PLANS AREA B & SCHEDULES
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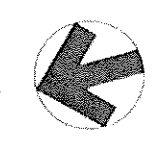
SET NO. 1

DATE : 12 FEB. 1993

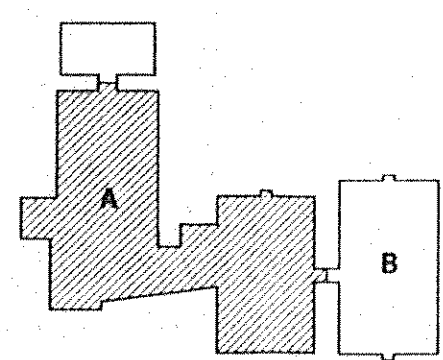
2200 Trimmier Rd. 2/17/93 loc (---)
KISD Clifton Elem Add RC-93 date



- ELECTRICAL DEMOLITION NOTES:**
- 1 EXISTING ELECTRICAL SERVICE TO REMAIN REUSE PANEL BOARDS AS SHOWN ON NEW SCHEDULES.
 - 2 REMOVE EXISTING DISCONNECT, CONDUIT AND WIRING BACK TO SOURCE.
 - 3 REMOVE EXISTING CONDUIT, BOXES AND WIRING BACK TO SOURCE.
 - 4 REMOVE EXISTING CEILING AND LIGHTS THIS AREA. LIGHTS TO BE REHUNG IN NEW CEILING.
- MECHANICAL DEMOLITION NOTES:**
- ▲ REMOVE EXISTING ROOFTOP UNIT, ROOF CURB, DUCTWORK, AND GRILLES IN THEIR ENTIRETY. PATCH ALL EXISTING HOLES IN ROOF AND CUT NEW HOLES IN ROOF. INSTALL NEW ROOF CURB AND NEW ROOFTOP UNIT. REUSE EXISTING HOLES IN ROOF AS APPLICABLE.
 - ▲ REMOVE EXISTING THERMOSTATS AND THERMOSTAT WIRING. WHEN PULLING EXISTING THERMOSTAT WIRING OUT PULL IN PULL STRING TO BE USED TO PULL IN NEW THERMOSTAT WIRE.
 - ▲ REMOVE EXISTING ELECTRIC HEATER AND THERMOSTAT.
 - ▲ EXISTING CONDENSING UNITS AND RUNNERS TO BE REMOVED FOR INSTALLATION OF NEW ROOF. REINSTALL ON EQUIPMENT SUPPORTS. COORDINATE WITH ROOFING WORK. EXTEND REFRIGERANT LINES AND POWER SUPPLY AS NECESSARY.
 - ▲ REMOVE EXISTING FURNACE.
 - ▲ REMOVE EXISTING FLUE THRU ROOF.
 - ▲ REMOVE EXISTING WALL MOUNT HEATER, DUCT, AND GRILLES.
 - ▲ EXISTING CONDENSING UNITS AND RUNNERS TO BE REMOVED FOR INSTALLATION OF NEW ROOF. REINSTALL ONTO NEW EQUIPMENT SUPPORTS.
 - ▲ REMOVE EXISTING WALL HEATER.
 - ▲ REMOVE EXISTING GRILLE AND BRANCH DUCT.
- PLUMBING DEMOLITION NOTES:**
- 1 REMOVE ALL EXISTING CONDENSATE DRAIN PIPING IN ITS ENTIRETY.
 - 2 REMOVE EXISTING GAS PIPING.
 - 3 EXISTING GAS PIPING TO REMAIN. EXISTING GAS METER TO BE REMOVED AND CHANGED TO NEW GAS METER WITH 2 LB. OUTLET PRESSURE.



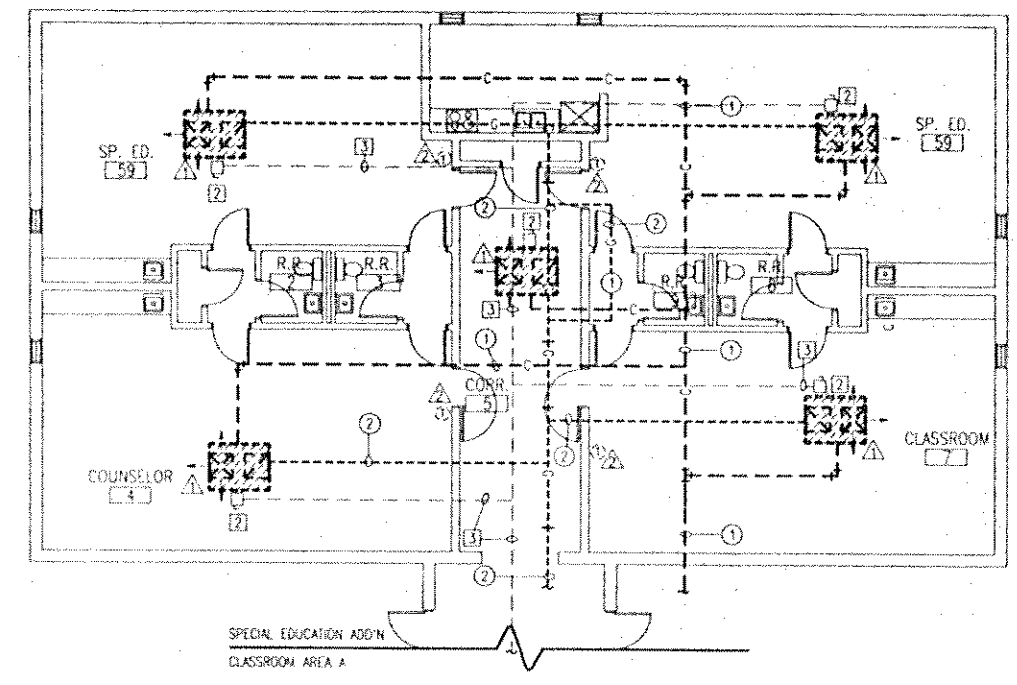
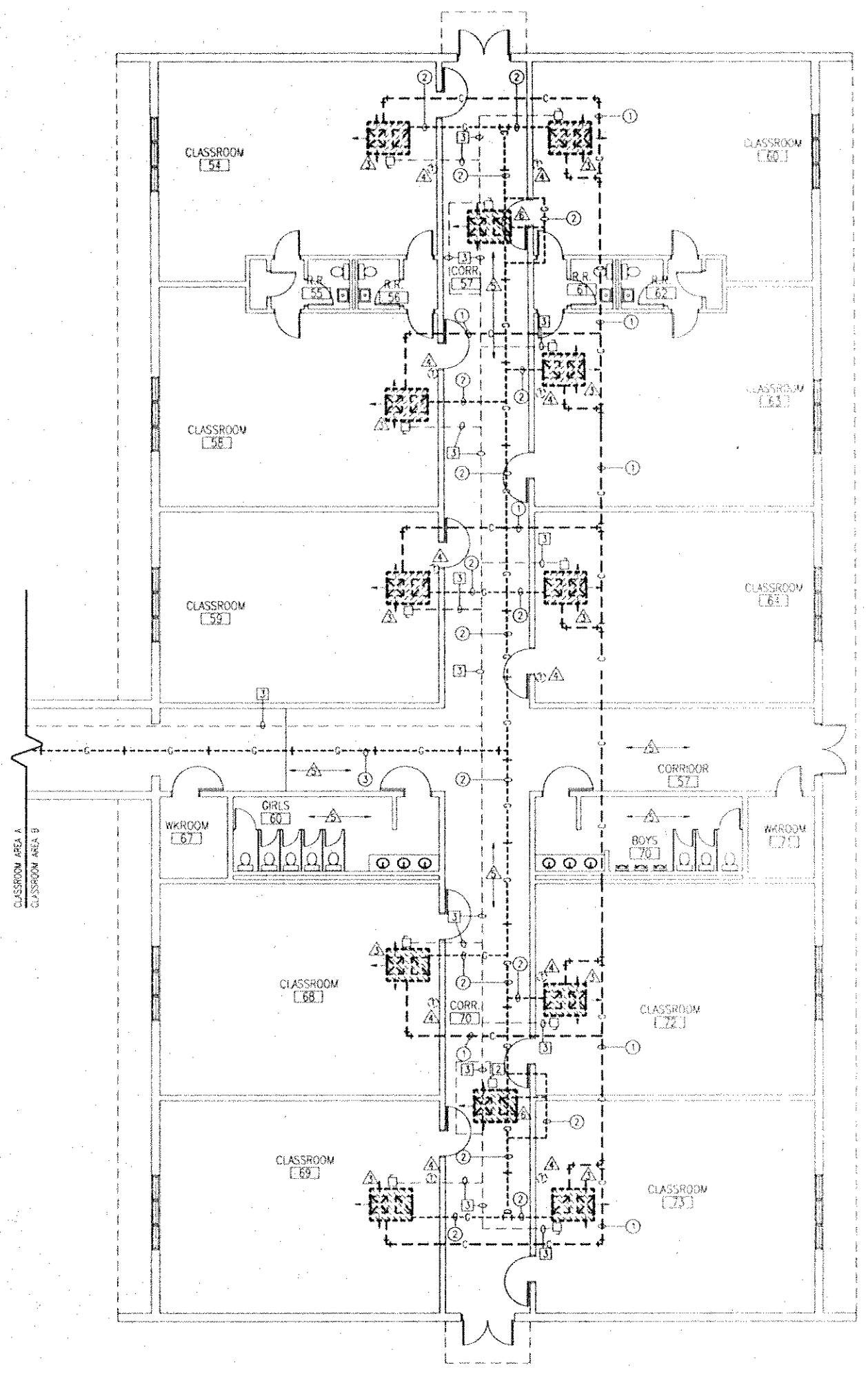
2.01-01 MECHANICAL/ELECTRICAL/PLUMBING/DEMOLITION FLOOR PLAN AREA 'A'
 1/16" = 1'-0"



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ARCHITECTS



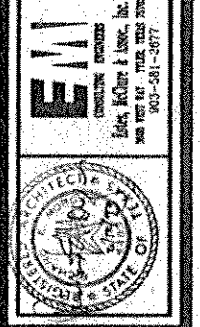
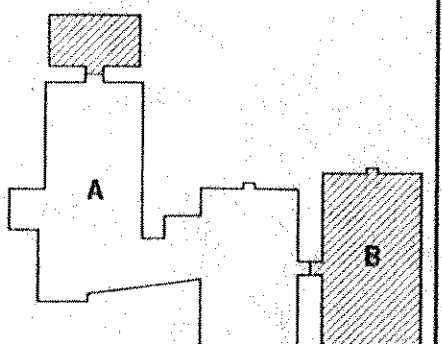
- ELECTRICAL DEMOLITION NOTES:**
- 1) EXISTING ELECTRICAL SERVICE TO REMAIN. REMOVE PANEL BOARDS AS SHOWN ON NEW SCHEDULES.
 - 2) REMOVE EXISTING DISCONNECT, CONDUIT AND WIRING BACK TO SOURCE.
 - 3) REMOVE EXISTING CONDUIT, BOXES AND WIRING BACK TO SOURCE.

- MECHANICAL DEMOLITION NOTES:**
- 1) REMOVE EXISTING ROOFTOP UNIT, ROOF CURB, DUCTWORK, AND GRILLES IN THEIR ENTIRETY. PATCH ALL EXISTING HOLES IN ROOF AND CUT NEW HOLES IN ROOF. INSTALL NEW ROOF CURB AND NEW ROOFTOP UNIT. REUSE EXISTING HOLES IN ROOF AS APPLICABLE.
 - 2) REMOVE EXISTING THERMOSTATS AND THERMOSTAT WIRING. WHEN PULLING EXISTING THERMOSTAT WIRING OUT PULL IN PULL STRING TO BE USED TO PULL IN NEW THERMOSTAT WIRE.
 - 3) EXISTING ROOFTOP UNIT AND ROOF CURB TO REMAIN. REMOVE EXISTING SUPPLY AND RETURN GRILLES, AND ALL DUCTWORK.
 - 4) EXISTING THERMOSTAT TO BE REMOVED. EXISTING WIRING TO REMAIN.
 - 5) EXISTING SUPPLY AND RETURN DIFFUSERS IN CORRIDORS, AND BOYS AND GIRLS RESTROOMS TO BE REMOVED.
 - 6) EXISTING ROOFTOP UNIT, ROOF CURB, AND DUCTWORK TO REMAIN. DIFFUSERS TO BE REMOVED (SEE NOTE 5).

- PLUMBING DEMOLITION NOTES:**
- 1) REMOVE ALL EXISTING CONDENSATE DRAIN PIPING IN ITS ENTIRETY.
 - 2) REMOVE EXISTING GAS PIPING.
 - 3) EXISTING GAS PIPING TO REMAIN.



2.02-02 MECHANICAL, ELECTRICAL, & PLUMBING DEMOLITION FLOOR PLAN AREA 'B'
 1/16"=1'-0"



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 KILLEEN INDEPENDENT SCHOOL DISTRICT

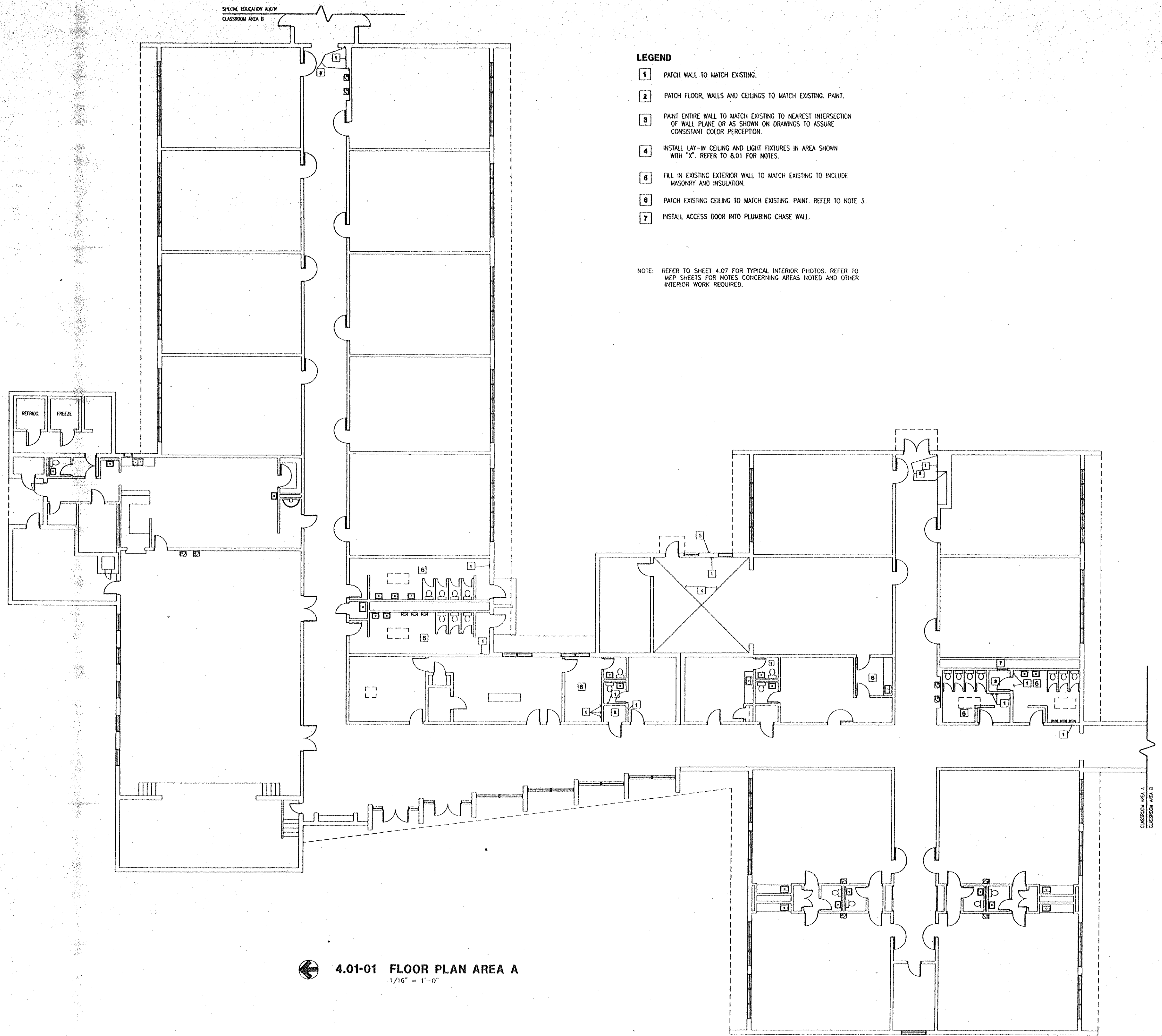
SHEET NO.
2.02

SPECIAL EDUCATION ADDN
CLASSROOM AREA B

LEGEND

- 1 PATCH WALL TO MATCH EXISTING.
- 2 PATCH FLOOR, WALLS AND CEILINGS TO MATCH EXISTING PAINT.
- 3 PAINT ENTIRE WALL TO MATCH EXISTING TO NEAREST INTERSECTION OF WALL PLANE OR AS SHOWN ON DRAWINGS TO ASSURE CONSISTANT COLOR PERCEPTION.
- 4 INSTALL LAY-IN CEILING AND LIGHT FIXTURES IN AREA SHOWN WITH "X". REFER TO 8.01 FOR NOTES.
- 6 FILL IN EXISTING EXTERIOR WALL TO MATCH EXISTING TO INCLUDE MASONRY AND INSULATION.
- 8 PATCH EXISTING CEILING TO MATCH EXISTING PAINT. REFER TO NOTE 3.
- 7 INSTALL ACCESS DOOR INTO PLUMBING CHASE WALL.

NOTE: REFER TO SHEET 4.07 FOR TYPICAL INTERIOR PHOTOS. REFER TO MEP SHEETS FOR NOTES CONCERNING AREAS NOTED AND OTHER INTERIOR WORK REQUIRED.



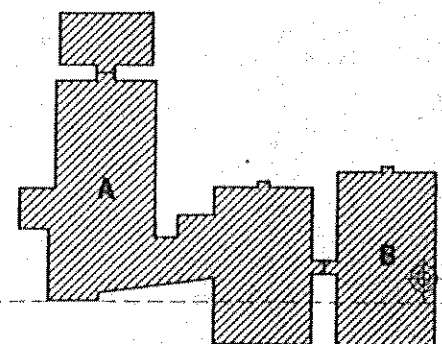
4.01-01 FLOOR PLAN AREA A
 1/16" = 1'-0"

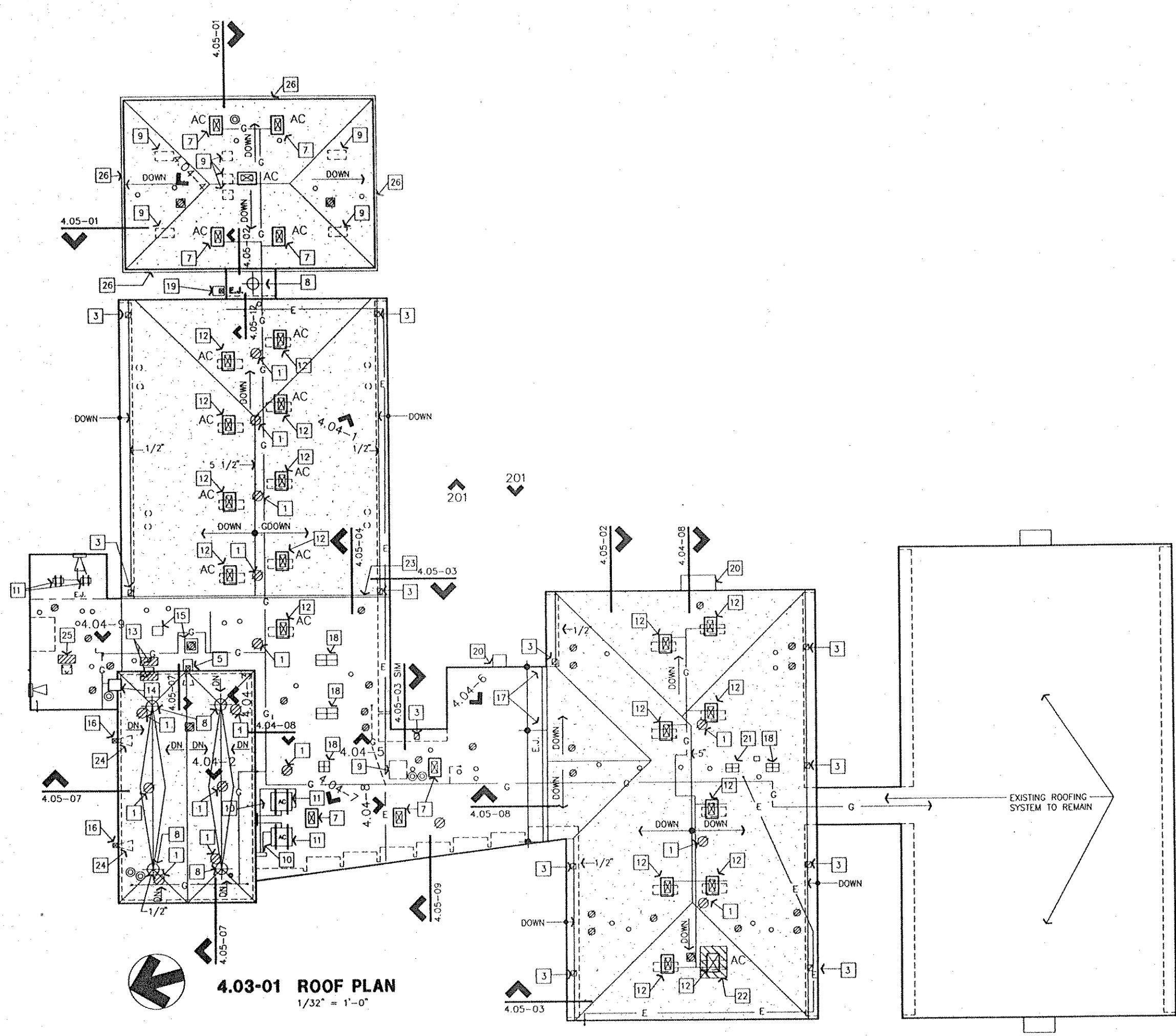
CLASSROOM AREA A
CLASSROOM AREA B



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REROOFING AND MEP RENOVATION
**CLIFTON PARK
 ELEMENTARY SCHOOL**
 KILLEEN INDEPENDENT SCHOOL DISTRICT





DRAWING NOTES

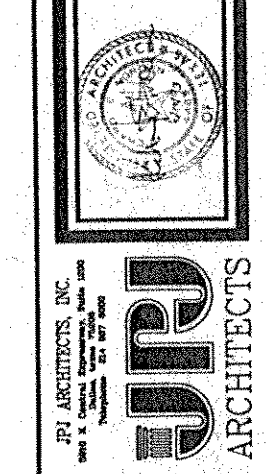
- 1 TYPICAL GRAVITY VENTILATOR TO REMAIN. PROVIDE NEW MEMBRANE FLASHING AT VENTILATOR BASE. REFER TO DETAIL 4.04-12.
- 2 REMOVE EXISTING GRAVITY VENTILATOR. PATCH HOLE IN ROOF DECK. REFER TO DETAIL 4.04-13.
- 3 TYPICAL THROUGH ROOF SCUPPER. REPLACE EXISTING SHEET METAL FLASHINGS. REFER TO DETAIL 4.05-03.
- 4 RAISE EXISTING EXHAUST FAN AND CURB. INSTALL NEW CURB PER DETAIL 4.04-07 OR 16. (EXTEND EXISTING DUCTWORK TO ACCOMMODATE NEW MOUNTING HEIGHT OF UNIT).
- 5 REMOVE EXISTING SCUPPER, CONDUCTOR HEAD, DOWNSPOUT, AND SPLASH PAN. MODIFY OR REPLACE FASCIA AS REQUIRED. REFER TO NOTE NO. 24.
- 6 PROVIDE UMBRELLA COUNTERFLASHING AS FOLLOWS:
 REMOVE EXISTING PITCH PAN. RAISE PIPING ON CONDUIT AND INSTALL NEW UMBRELLA COUNTERFLASHING AT ROOF PENETRATION. REFER TO DETAIL 4.04-03. SLOPE CONDENSATE PIPING TO OBTAIN POSITIVE DRAINAGE.
- 7 NEW HVAC UNITS ON NEW EQUIPMENT CURBS PER DETAIL 4.04-15. CUT HOLE THROUGH EXISTING STRUCTURAL DECK FOR DUCT PENETRATION. ADD SUPPORTS AT EACH UNIT UNDER EXISTING ROOF DECK PER DETAIL 4.05-05 SIM AND 4.05-06.
- 8 ADD ROOF DRAIN AND DOWNSPOUT PIPING PER DETAIL 4.04-19.
- 9 REMOVE EXISTING HVAC UNIT OR EQUIPMENT AND CURB. REFER TO DEMOLITION PLAN 2.02. FILL IN DUCT PENETRATION HOLE. SIMILAR TO DETAIL 4.04-13.
- 10 EXISTING REFRIGERANT LINE TO REMAIN. COORDINATE WITH NEW MOUNTING OF CONDENSING UNIT. CLEAN OUT EXISTING SEALANT AT PENETRATION AT WALL AND INSTALL NEW JOINT SEALANT.
- 11 REMOVE EXISTING WOOD EQUIPMENT SUPPORTS AND ASSOCIATED PITCH PANS BENEATH HVAC UNIT OR EQUIPMENT AS SHOWN ON MEP DEMOLITION PLANS 2.01 AND 2.02. RAISE UNIT TO INSTALL NEW 12 IN. TALL PREFABRICATED EQUIPMENT SUPPORTS BENEATH UNIT. REFER TO DETAIL 4.04-09. MODIFY EXISTING REFRIGERANT PIPING, GAS PIPING, AND ELECTRICAL CONNECTIONS TO ACCOMMODATE NEW MOUNTING HEIGHT OF UNIT. SIZE AND INSTALL EQUIPMENT SUPPORTS TO SPAN A MINIMUM OF TWO JOISTS IN ROOF FRAMING SYSTEM. REFER TO DRAWING NOTE 6 FOR FLASHING AT PIPE AND CONDUIT PENETRATIONS.
- 12 NEW HVAC UNITS ON NEW EQUIPMENT CURBS AFTER REMOVAL OF EXISTING HVAC UNITS AND CURBS. REFER TO DETAIL 4.05-05 AND 06 FOR STRUCTURAL SUPPORTS UNDER NEW CURB AND OPENING. REFER TO DETAIL 4.04-15 AND 4.04-20.
- 13 PROVIDE NEW WALKWAY PAD AT TOP AND BOTTOM OF LADDER.
- 14 REMOVE EXISTING MORTAR AND SEALANT JOINTS AT GAST STONE CAP TO A DEPTH OF 1/2". CLEAN JOINTS AND INSTALL NEW SEALANT AT EACH JOINT. PROVIDE NEW BASE FLASHING AT CHIMNEY PER DETAIL 4.04-08.
- 15 RAISE SHEET METAL FIXTURE FROM EXISTING CURB AND MODIFY EXISTING DUCTWORK TO ACCOMMODATE NEW MOUNTING HEIGHT. INSTALL NEW FLASHING PER DETAIL 4.04-16 OR MODIFY EXISTING GYPSUM CURB PER DETAIL 4.04-07.
- 16 PROVIDE NEW SHEET METAL CONDUCTOR HEAD AND MODIFY EXISTING DOWNSPOUT TO RECEIVE ROOF DRAIN FROM NEW ROOF DRAINS AT CAFETERIA ROOF. REFER TO DETAIL 4.04-19.
- 17 EXTEND EXPANSION JOINT THROUGH TO EDGE OF ROOF PER DETAIL 4.05-08 AND 4.05-11.
- 18 REPLACE EXISTING SKYLIGHT WITH NEW PLASTIC SKYLIGHT UNIT. FLASH PER DETAIL 4.04-18.
- 19 ADD CONDUCTOR HEAD, DOWNSPOUT, AND CONCRETE SPLASH BLOCK TO MATCH EXISTING TO DRAIN WATER FROM NEW ROOF DRAIN AND PIPING. REFER TO 4.04-19.
- 20 REROOF CANOPIES AND REPLACE EXISTING GRAVEL GUARD WITH LOW PROFILE GRAVEL GUARD.
- 21 REMOVE EXISTING SHEET METAL COVER. REPLACE WITH NEW PLASTIC SKYLIGHT UNIT. REFER TO DETAIL 4.04-18.
- 22 INSTALL NEW WALKWAY PAD ALL FOUR SIDES OF HVAC UNIT. TYPICAL EACH UNIT IN REROOFING AREA.
- 23 PROVIDE NEW AREA DIVIDER CURB TO TERMINATE TAPERED INSULATION ROOF AREA. REFER TO DETAIL 4.05-04. TAPER DIVIDER CURB AT BUILDING EDGES. REFER TO DETAIL 4.05-11 SIM.
- 24 REMOVE EXISTING SCUPPER AND INFILL RECESS IN ROOF DECK WITH ADDITIONAL LAYERS OF ROOF INSULATION.
- 25 PROVIDE NEW WALKWAY PAD AT ROOF HATCH OPENING.
- 26 EXISTING GUTTER TO REMAIN.

LEGEND

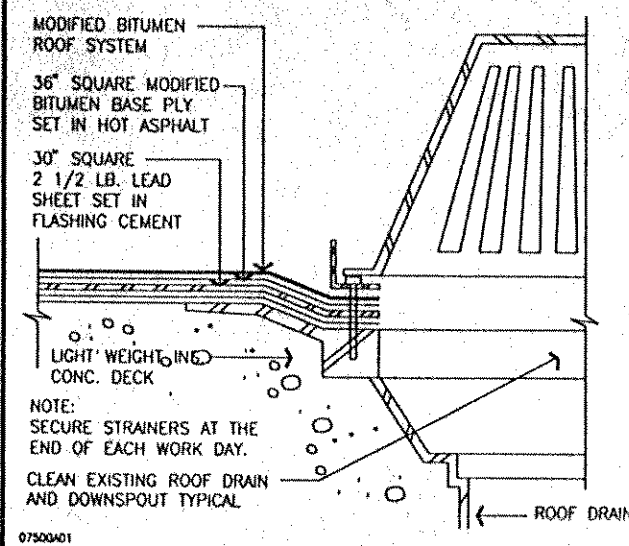
SYMBOL	CONDITION	DETAIL	SYMBOL	CONDITION	DETAIL
⊕	ROOF DRAIN (NEW)	4.04-01	⊗	CURBED EXHAUST FAN	4.04-07, 16, 20
○	PIPE OR VENT THROUGH ROOF REFER TO NOTE #6	4.04-02 OR 03	—	WALKWAY - NEW	
⊙	HOT PIPE	4.04-06	AC	HVAC UNIT WITH DUCT PENETRATION THROUGH ROOF WALKWAY NOT SHOWN ON PLANS FOR CLARITY	4.04-15 4.05-05, 06
□	ROOF PENETRATION FLASHING--PIPES		⊗	THROUGH ROOF SCUPPER	4.04-03
⊗	GRAVITY VENTILATOR	4.04-12 OR 13	—R—	EXISTING REFRIGERANT LINE	
⊗	EQUIPMENT CURB	4.04-07, 16, 20	—G—	GAS PIPING - REFER TO 8.01 AND 8.02	RE: GEN. NOTES
—	EQUIPMENT SUPPORT	4.04-09	4.04-01	DRAWING DETAIL	
⊗	DOWNSPOUT & SPLASH BLOCK OR SPLASH PAN	4.04-19	201	PHOTOGRAPH	
▭	TAPERED INSULATION		⊕	EXISTING SHEET METAL SCUPPER TO BE REMOVED	RE: DRWG. NOTE # 24
⊕	SKYLIGHT BASE FLASHING		⊕	EXISTING SHEET METAL SCUPPER TO REMAIN	

GENERAL NOTES

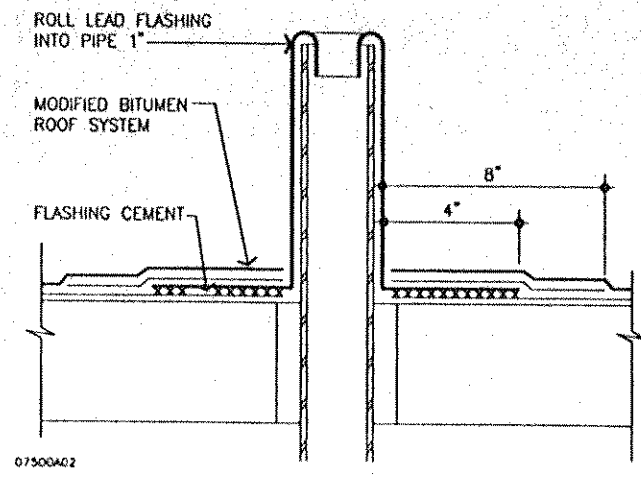
- 1 NEW ROOFING SYSTEM. MODIFIED BITUMEN SHEET ROOFING SYSTEM INSTALLED OVER NEW AND EXISTING CEMENTITIOUS ROOF DECKS AND EXISTING WOOD DECKS AFTER REMOVAL OF EXISTING BUILT-UP ROOFING. TAPERED AND FLAT STOCK INSULATION ON ROOF DECK AS SHOWN ON PLANS.
- 2 REMOVE ALL EXISTING PITCH PAN SUPPORTS AND PROVIDE NEW MOLDED PIPE SUPPORTS AT 10'-0" O. C. AT CONDENSATE LINE, ELECTRICAL CONDUIT, AND GAS PIPING LOCATIONS. RAISE PIPING IF REQUIRED TO INSTALL PIPING SUPPORTS. REFER TO DETAIL 4.08-05.
- 3 REMOVE ALL PITCH PANS TYPICAL.
- 4 REPLACE FASCIAS AND GRAVEL GUARDS WITH NEW FASCIA AND GRAVEL GUARDS TO MATCH EXISTING PAINT.
- 5 PATCH ROOF DECKS TO MATCH EXISTING ROOF DECK WHERE VENTS ARE REMOVED. REFER TO 2.01 AND 2.02 FOR TYPICAL LOCATIONS.



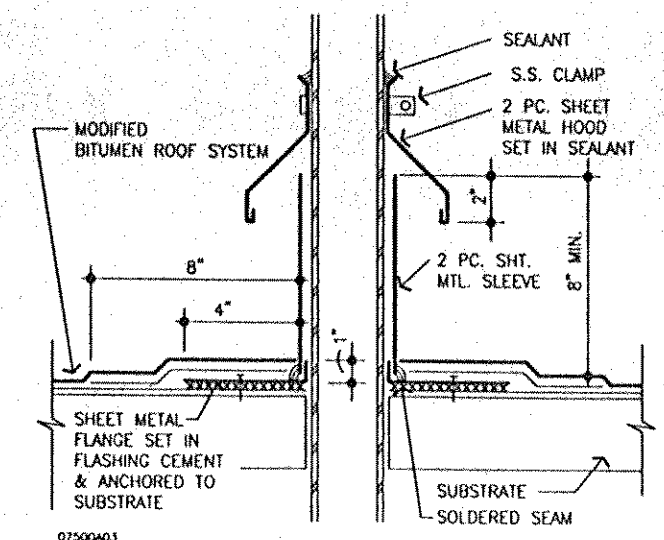
JPA ARCHITECTS, INC.
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 CHICAGO, ILL. 60642
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 REROOFING AND MEP RENOVATION
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 KILKEN INDEPENDENT SCHOOL DISTRICT



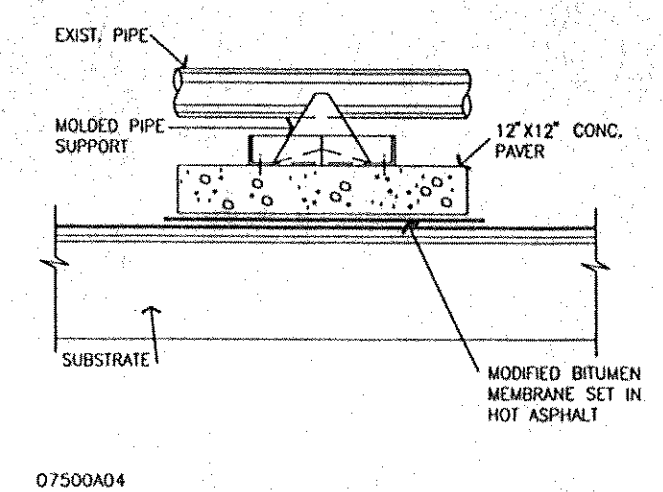
4.04-01 ROOF DRAIN
1 1/2" = 1'-0"



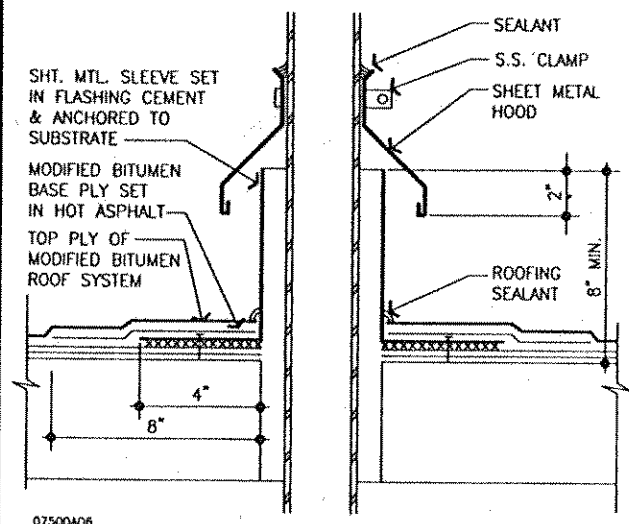
4.04-02 VENT PIPE DETAIL
1 1/2" = 1'-0"



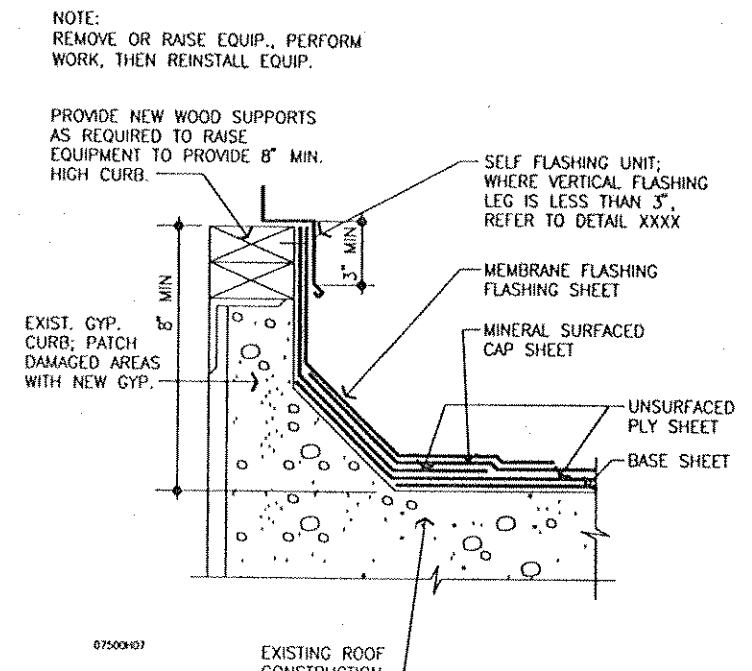
4.04-03 PIPE FLASHING
1 1/2" = 1'-0"



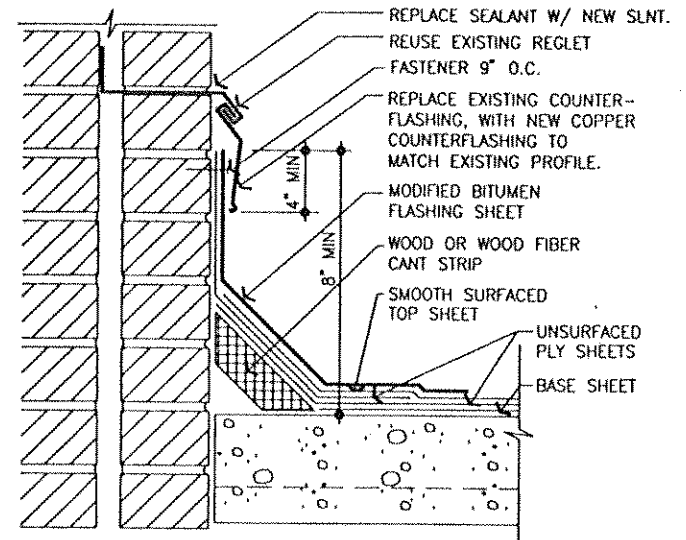
4.04-05 PIPING SUPPORT
1 1/2" = 1'-0"



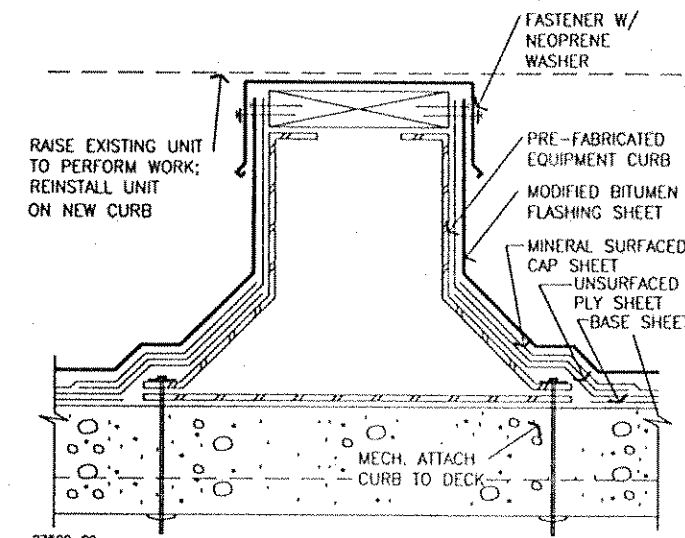
4.04-06 HOT PIPE
1 1/2" = 1'-0"



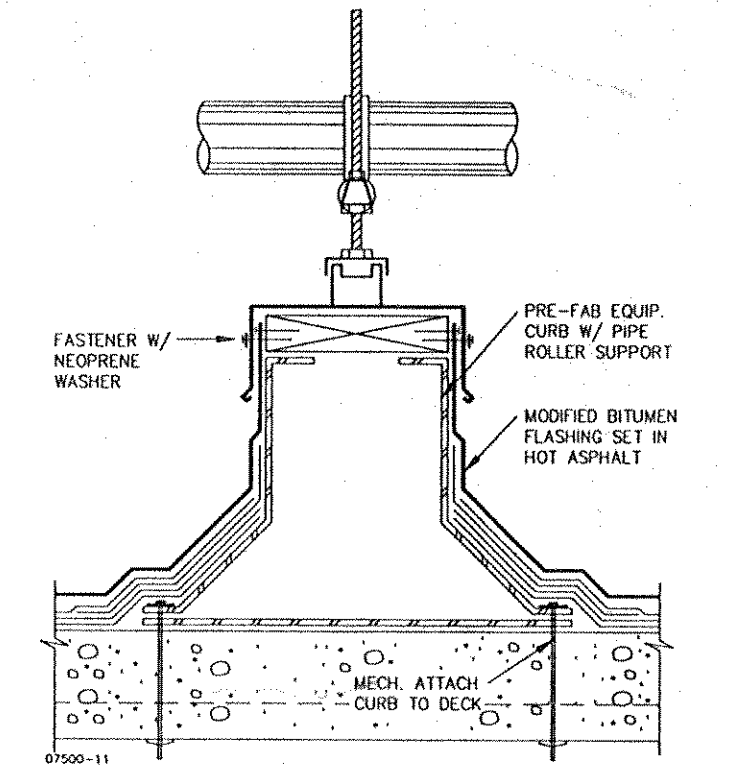
4.04-07 EQUIPMENT CURB
1 1/2" = 1'-0"



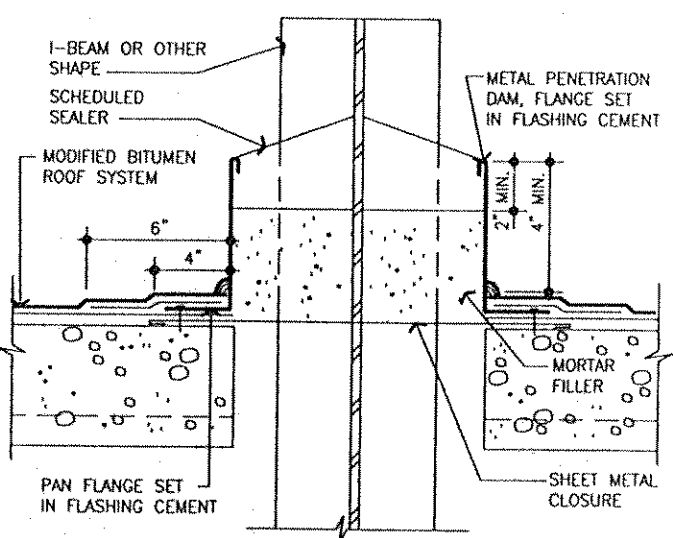
4.04-08 BASE FLASHING
1 1/2" = 1'-0"



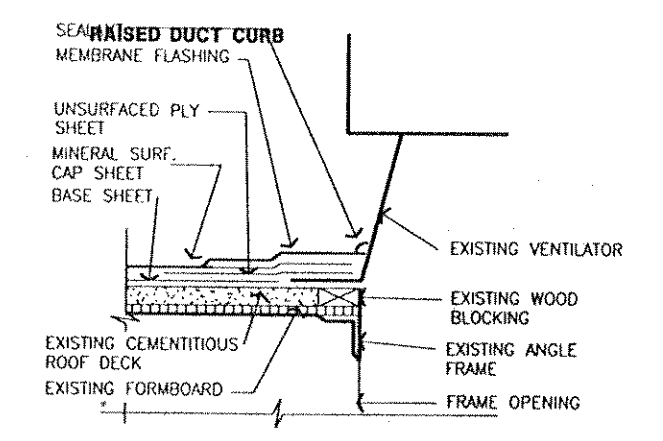
4.04-09 EQUIPMENT SUPPORT
1 1/2" = 1'-0"



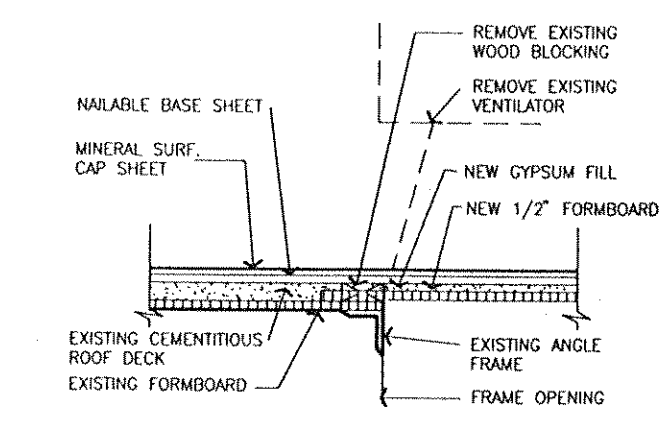
4.04-10 PIPE SUPPORT CURB
1 1/2" = 1'-0"



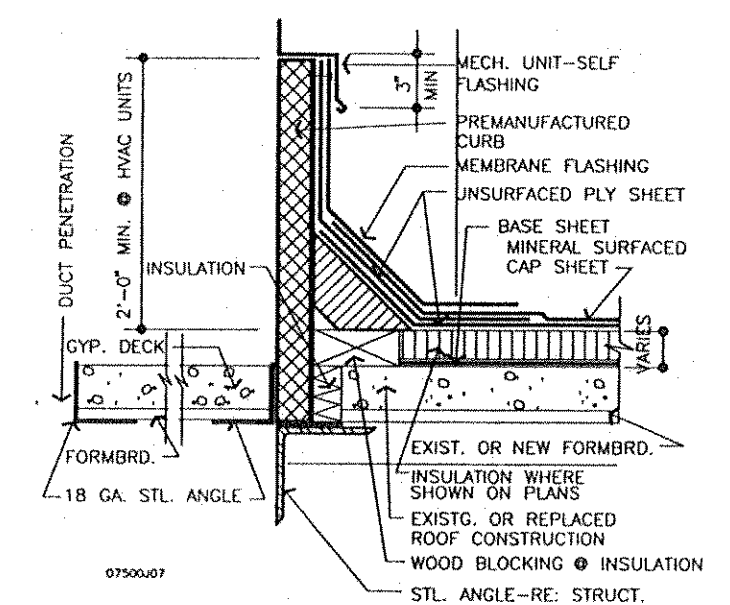
4.04-11 METAL PENETRATION DAM
1 1/2" = 1'-0"



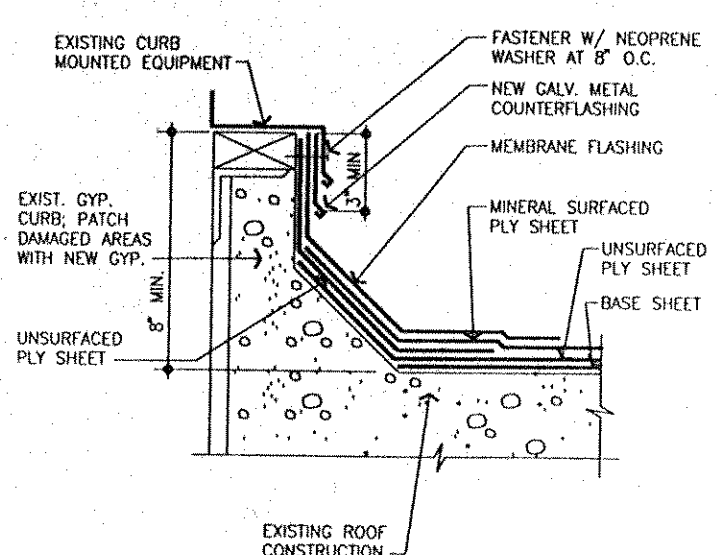
4.04-12 VENTILATOR TO REMAIN
3/4" = 1'-0"



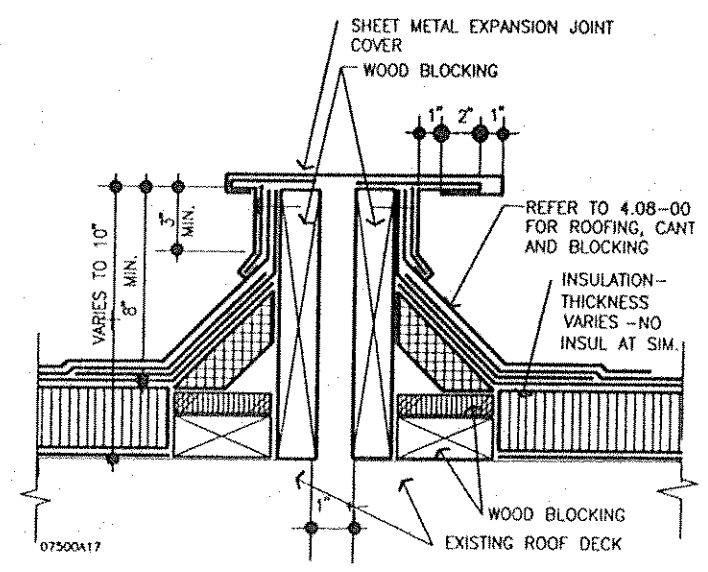
4.04-13 VENTILATOR TO BE REMOVED
3/4" = 1'-0"



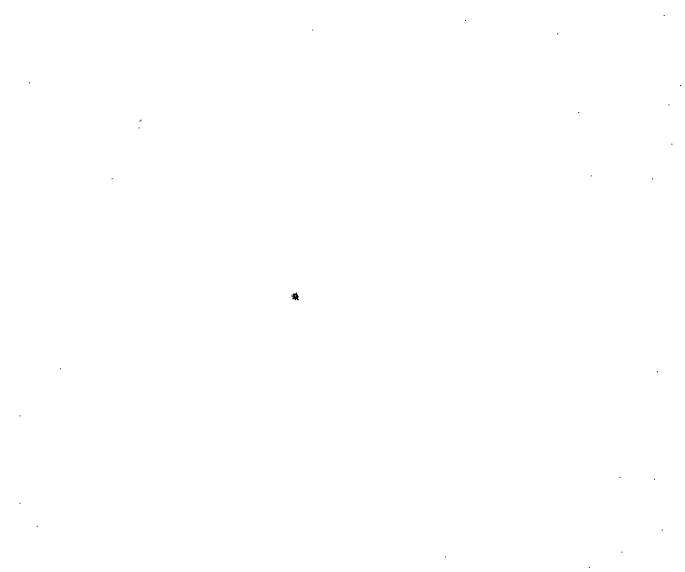
4.04-15 HVAC EQUIPMENT CURB
1-1/2" = 1'-0"



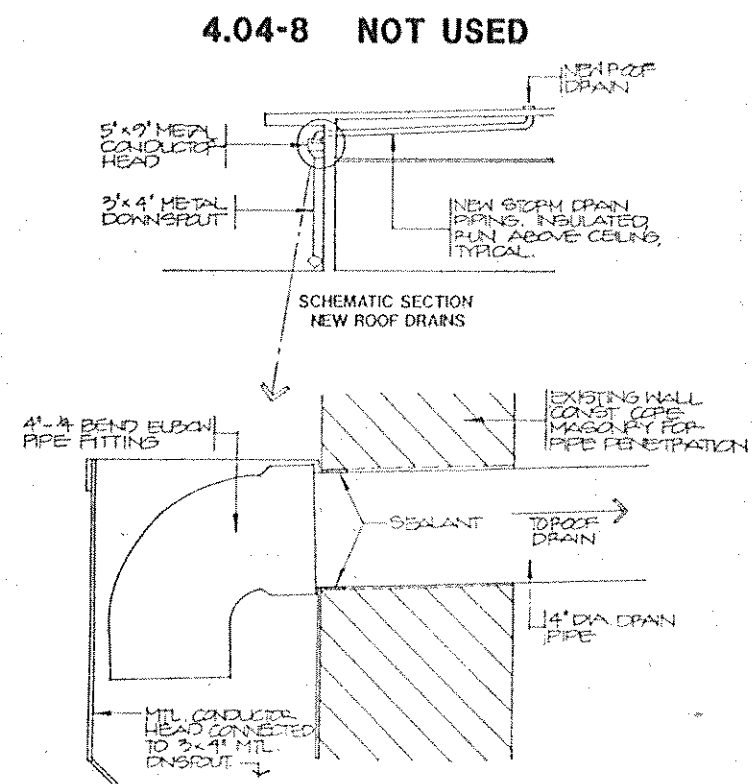
4.04-16 EQUIPMENT CURB
1 1/2" = 1'-0"



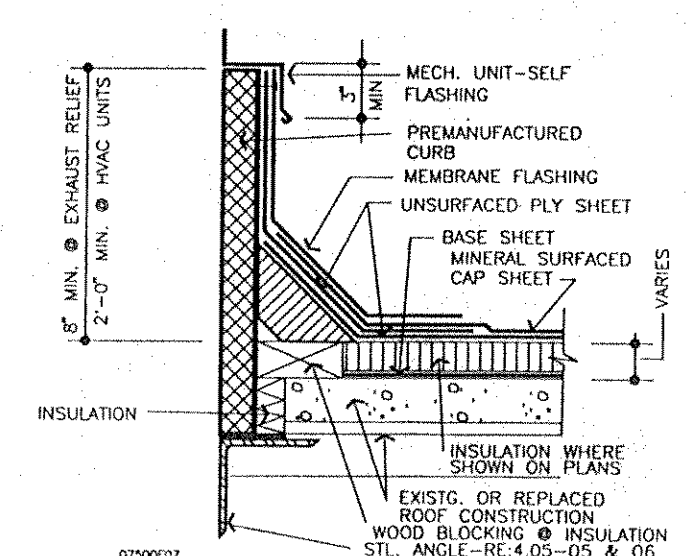
4.04-17 EXPANSION JOINT
1 1/2" = 1'-0"



4.04-18 NOT USED

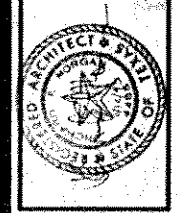


4.04-19 ROOF DRAIN SCHEMATIC



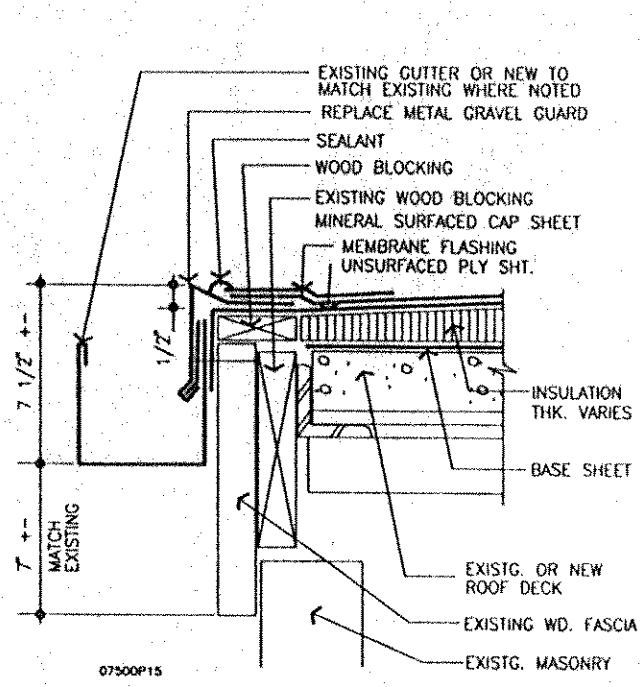
4.04-20 EQUIPMENT CURB
1-1/2" = 1'-0"

JOB NO.	45717
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DATE	12/29/93
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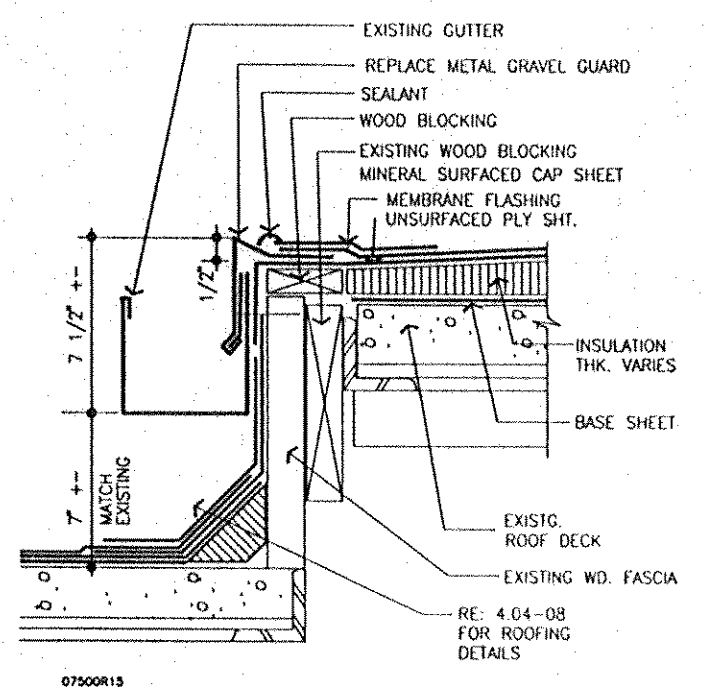


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DENVER, CO 80202
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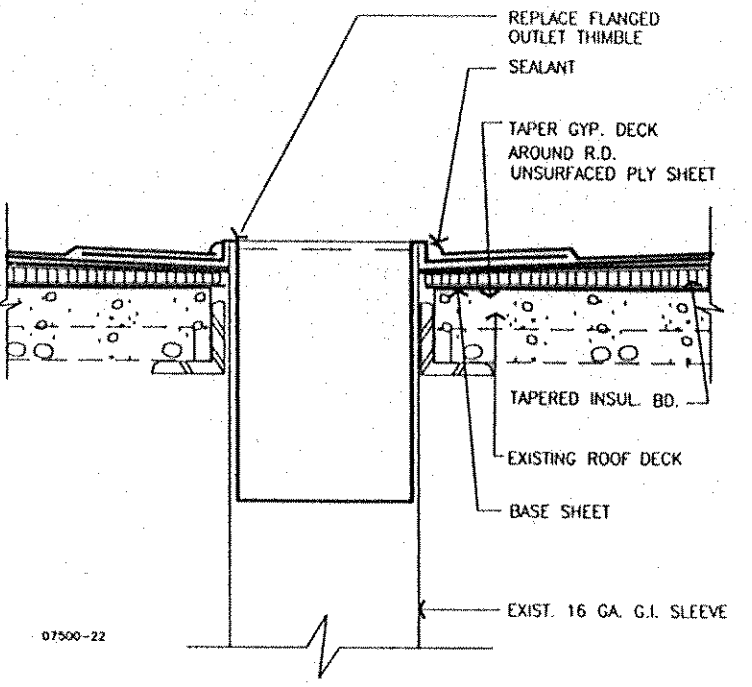
RENOVATION AND MEP RENOVATION
CLIFTON PARK ELEMENTARY SCHOOL
KILLEEN INDEPENDENT SCHOOL DISTRICT



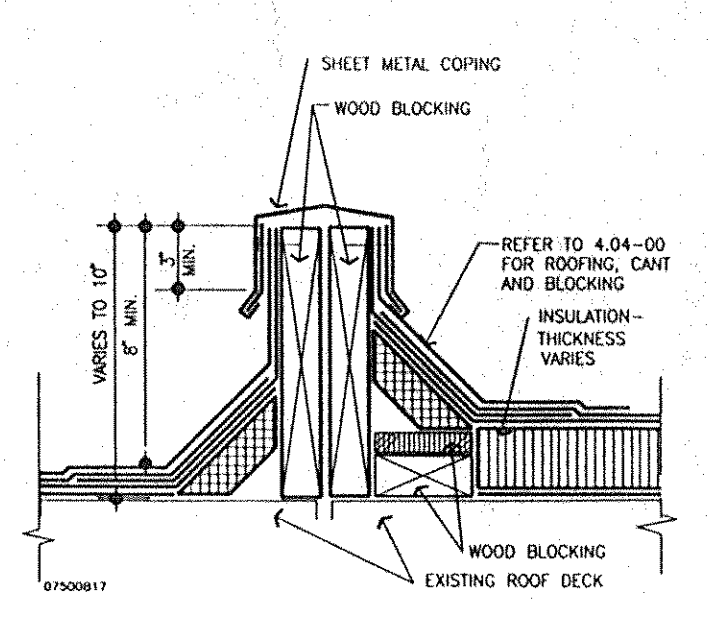
4.05-01 FASCIA
1 1/2" = 1'-0"



4.05-02 FASCIA AT STEP DOWN
1 1/2" = 1'-0"



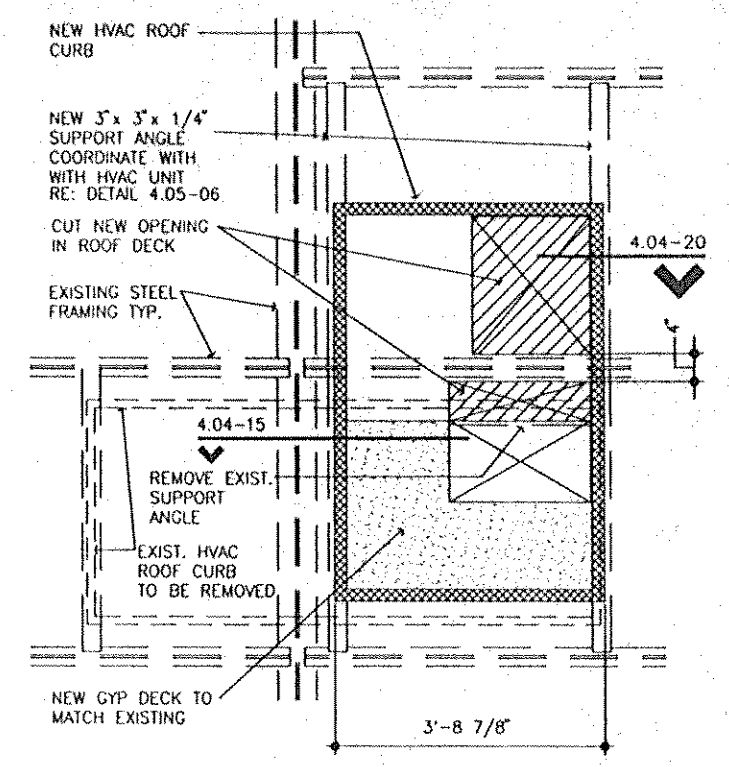
4.05-03 THROUGH ROOF SCUPPER
1 1/2" = 1'-0"



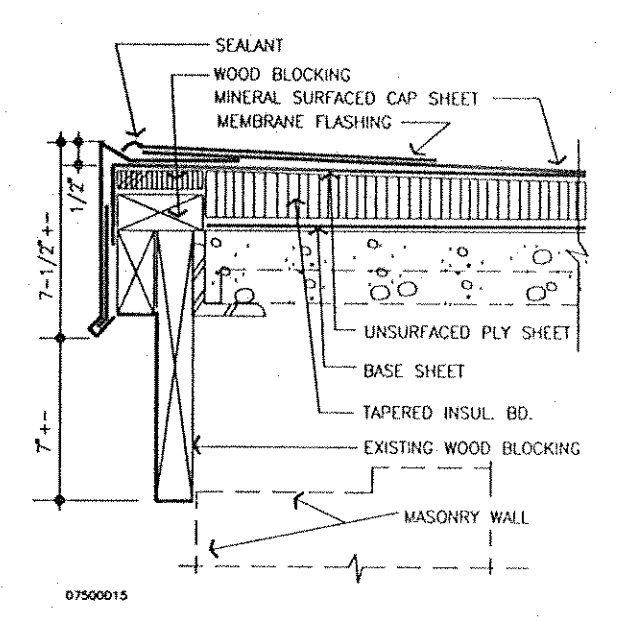
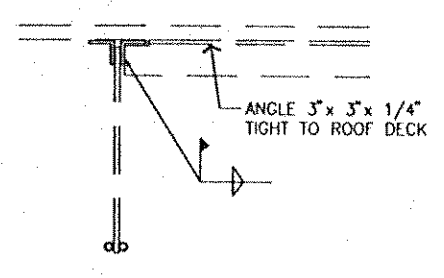
4.05-04 AREA SEPARATION CURB
1 1/2" = 1'-0"

SEQUENCE OF WORK

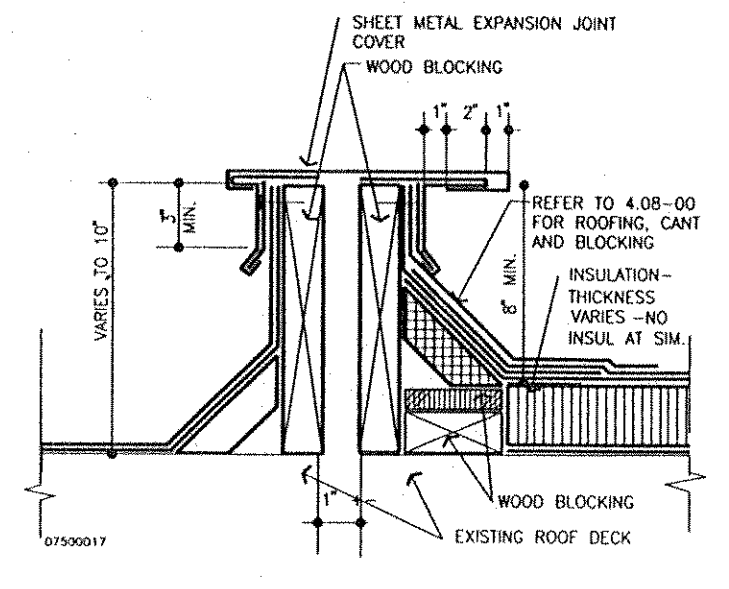
REMOVE EXISTING DUCTWORK AND UNIT
PROVIDE NEW OPENINGS IN ROOF DECK
INSTALL NEW SUPPORT ANGLES
FILL IN ABANDONED EXISTING OPENING
SET SUPPORT CURB
SET NEW HVAC UNIT
INSTALL TEMPORARY TIE-INS



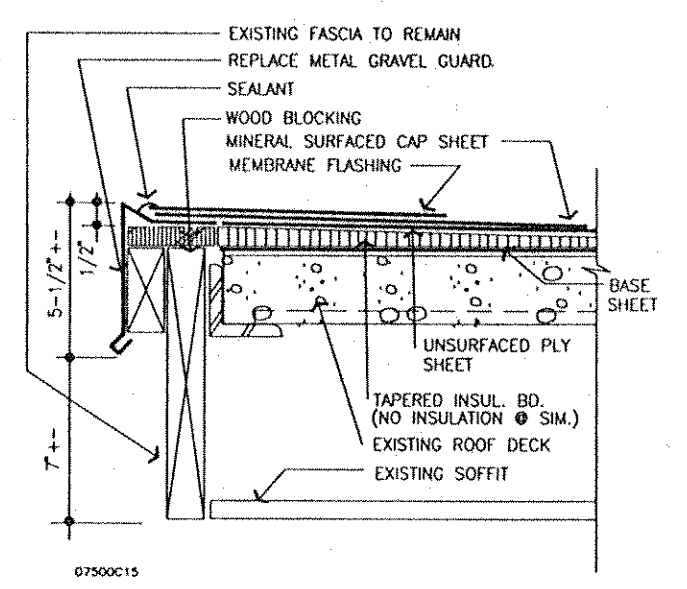
4.05-05 PLAN AT HVAC REPLACEMENT
3/8" = 1'-0"



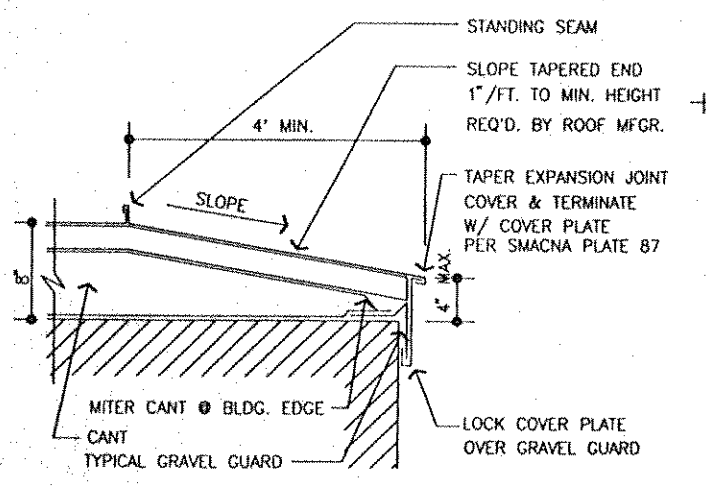
4.05-06 STRUCTURAL SUPPORT
1 1/2" = 1'-0"



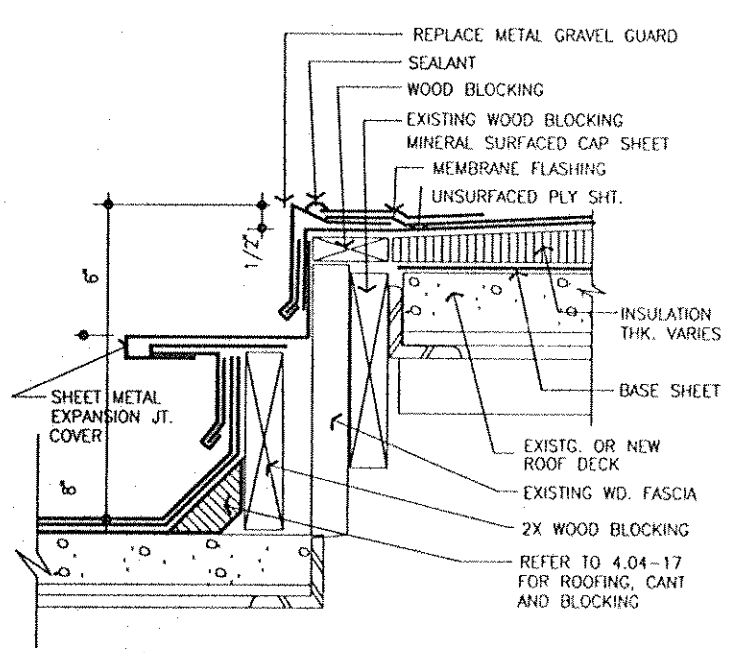
4.05-07 FASCIA AT CAFETORIUM
1 1/2" = 1'-0"



4.05-08 EXPANSION JOINT
1 1/2" = 1'-0"



4.05-09 FASCIA AT SOFFIT
1 1/2" = 1'-0"



4.05-10 STRUCTURAL SUPPORT
1 1/2" = 1'-0"



4.05-11 E.J. TERMINATION
1-1/2" = 1'-0"



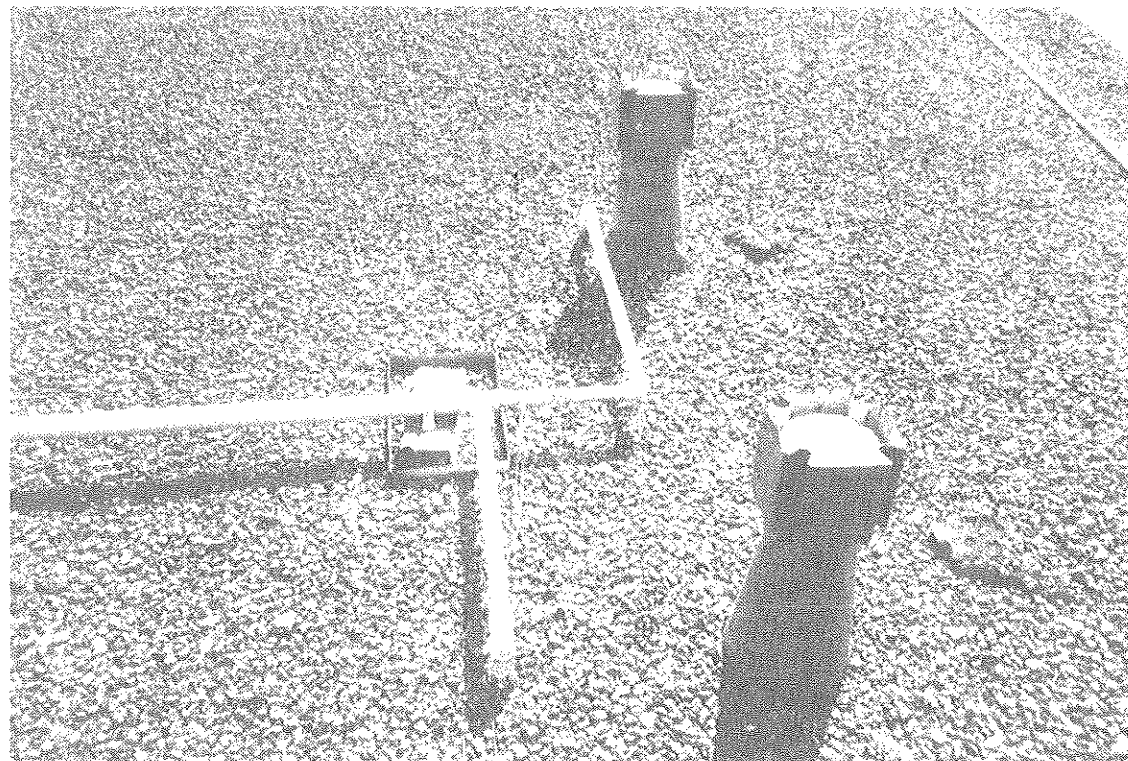
4.05-12 E.J. WALL AT LOW ROOF
1-1/2" = 1'-0"

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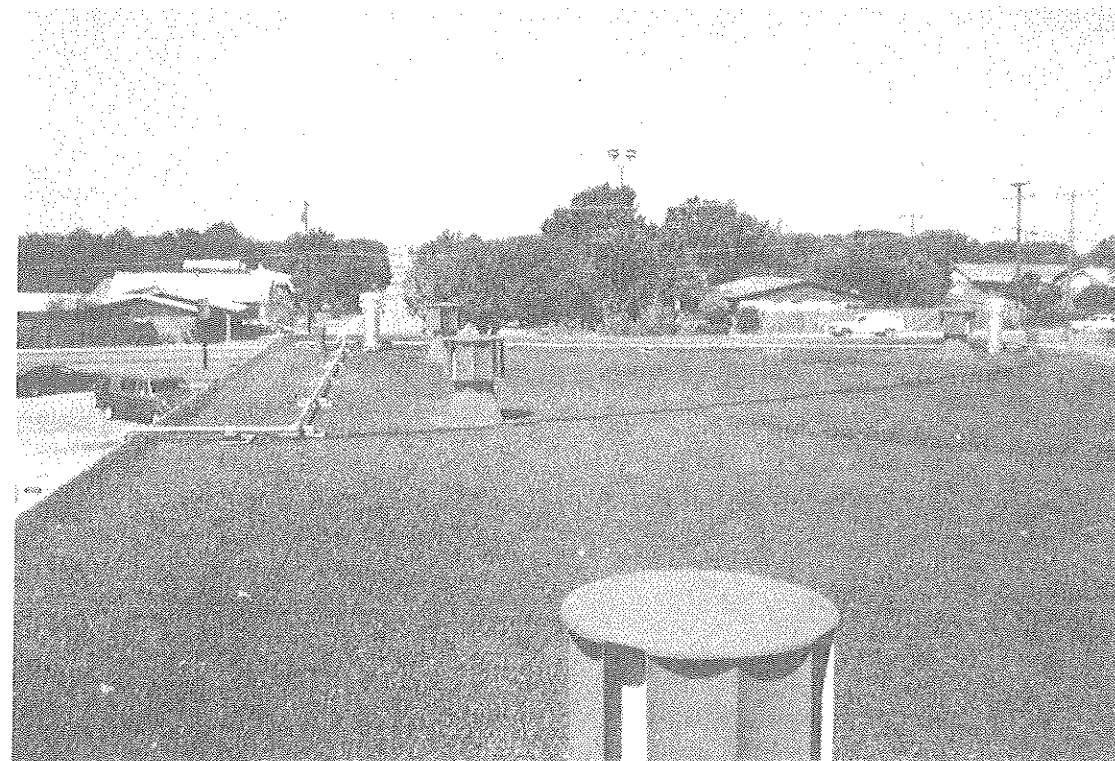


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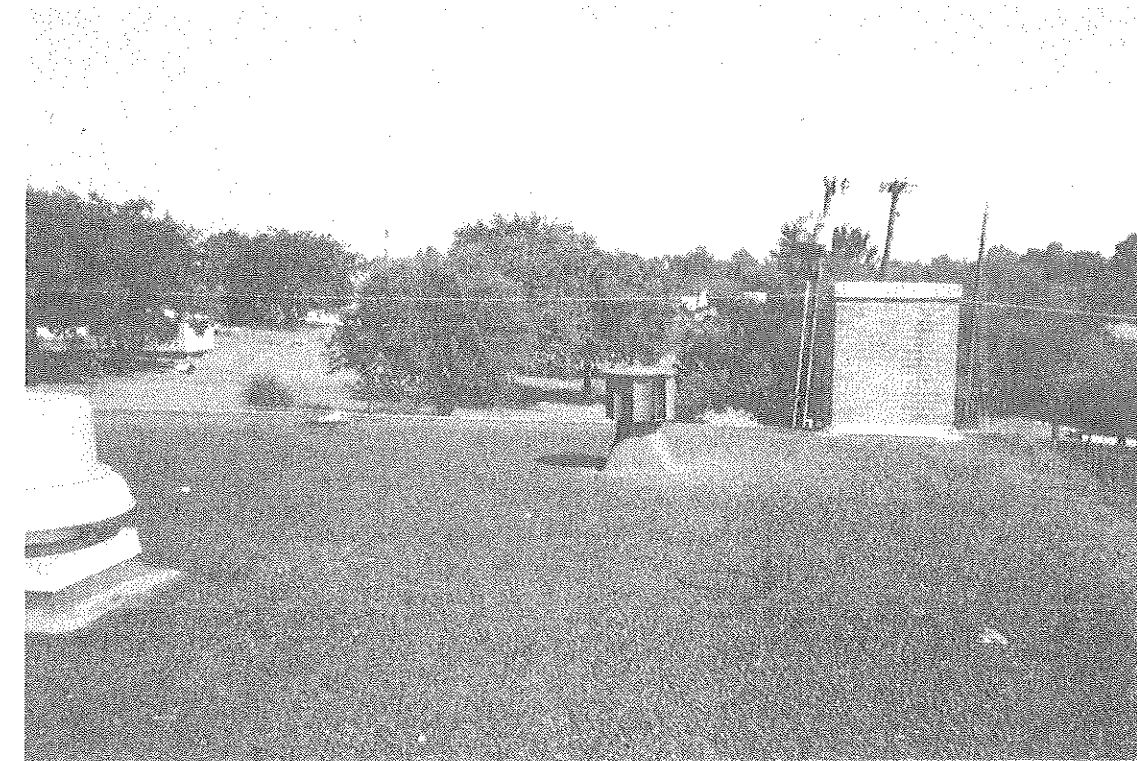
REROOFING AND MEP RENOVATION
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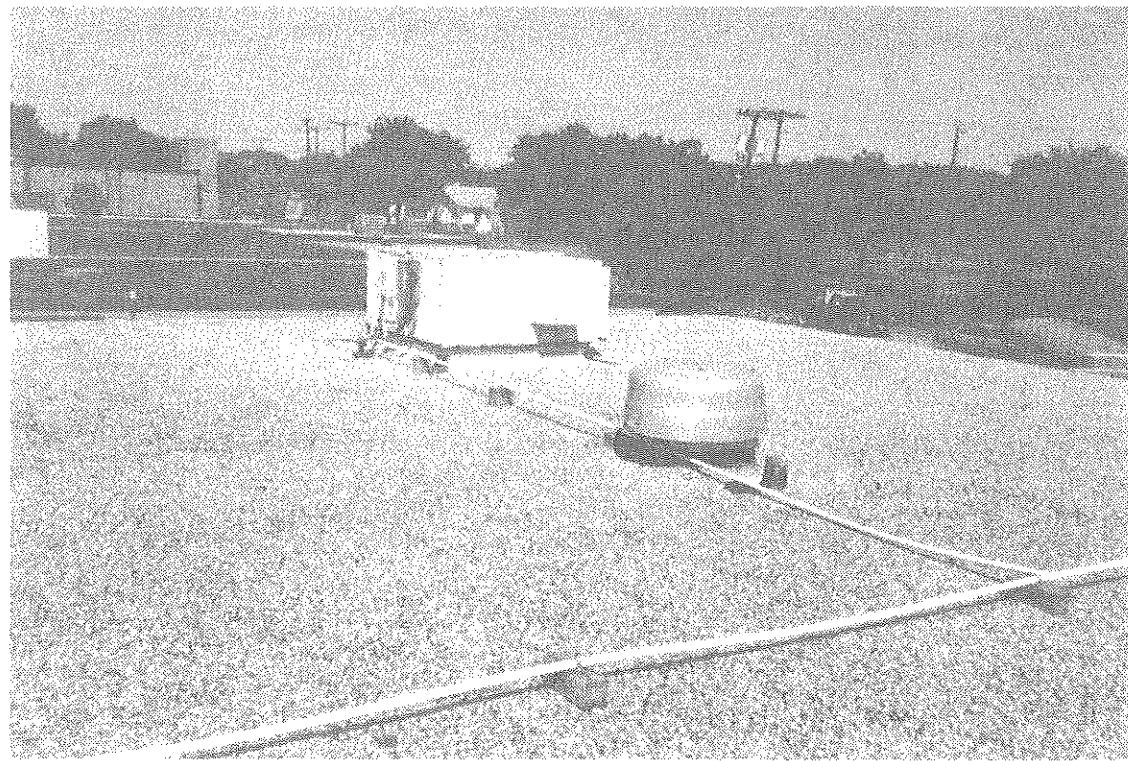
1
VIEW OF TYPICAL VENTS AND GAS PIPE PENETRATIONS TO BE REMOVED. REMOVE PITCH PANS, PIPE SUPPORTS, GAS PIPING AND VENTS. PATCH EXISTING HOLES IN ROOF. REFER TO M.E.P. DEMOLITION PLANS SHEETS 2.01 & 2.02 FOR TYPICAL LOCATIONS.



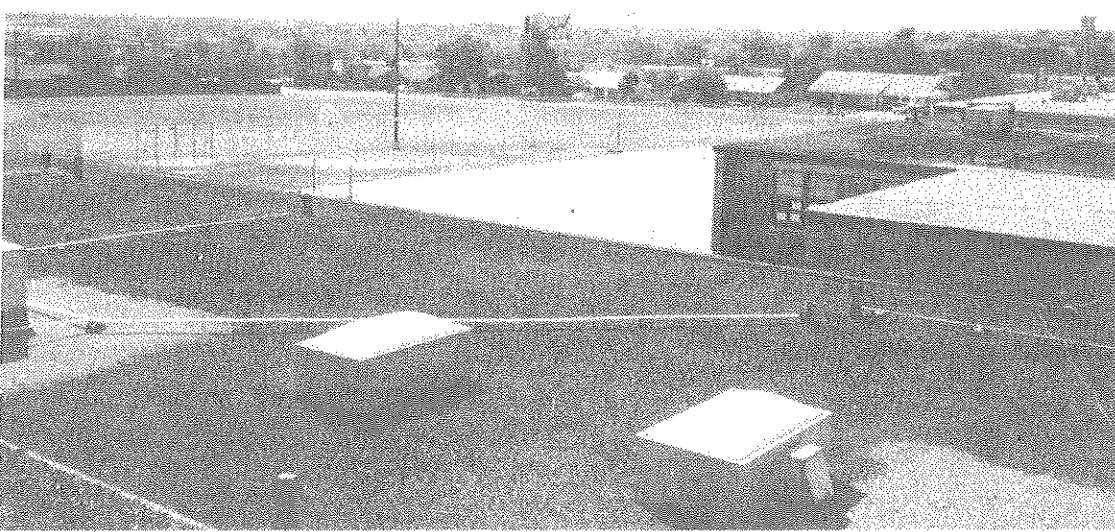
2
VIEW OF EXISTING CAFETERIA ROOF WITH EXISTING GRAVITY VENTILATORS. FLASH VENTILATORS PER DETAIL 4.04-12. REMOVE PITCH PANS AND PIPE SUPPORTS AT EXISTING GAS LINE. INSTALL NEW PIPE MOLDED SUPPORTS PER DETAIL 4.04-05 AND MODIFY GAS LINE TO ACCOMMODATE NEW SUPPORTS. INSTALL NEW TAPERED INSULATION AS SHOWN ON PLANS ON CAFETERIA ROOF.



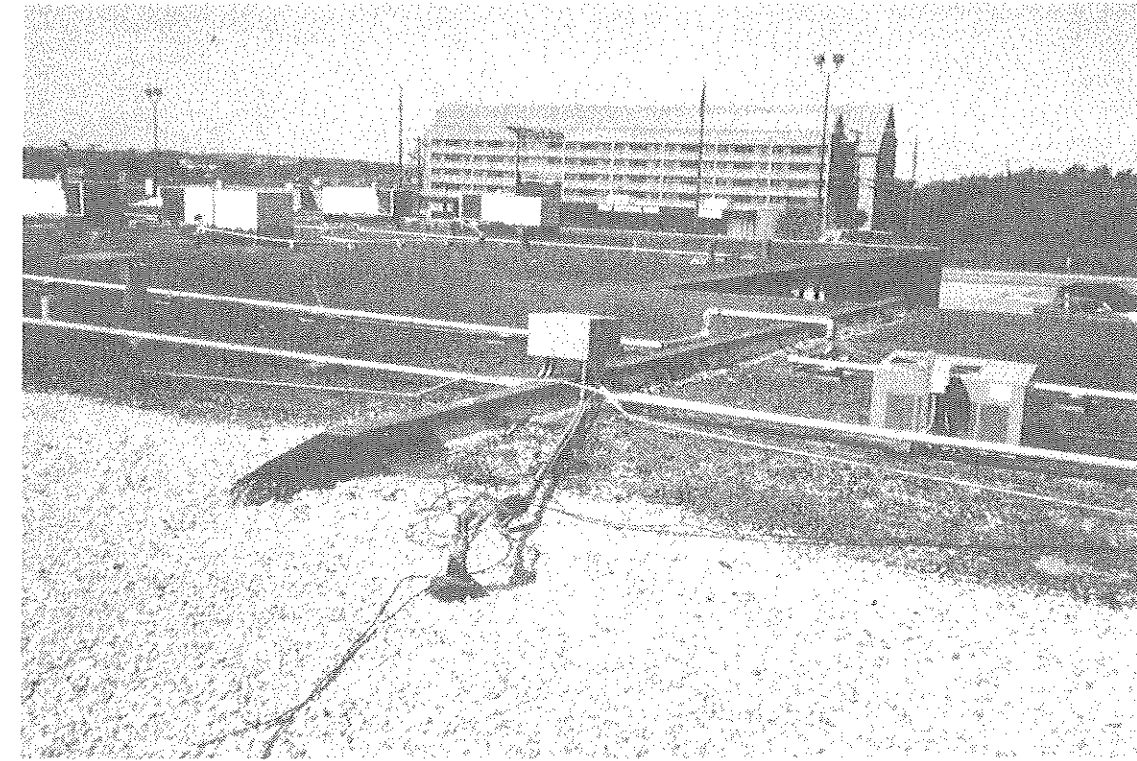
3
VIEW OF CAFETERIA ROOF AND MASONRY CHIMNEY. INSTALL NEW BASE FLASHING AT CHIMNEY AND ROOF PER DETAIL 4.04-08. REWORK JOINTS AT CAST STONE CAP AT CHIMNEY PER DRAWING NOTE #14. PROVIDE NEW FLASHING FOR TYPICAL GRAVITY VENTILATOR PER DETAIL 4.04-12. FOR EXHAUST FAN REFER TO PHOTO #4.



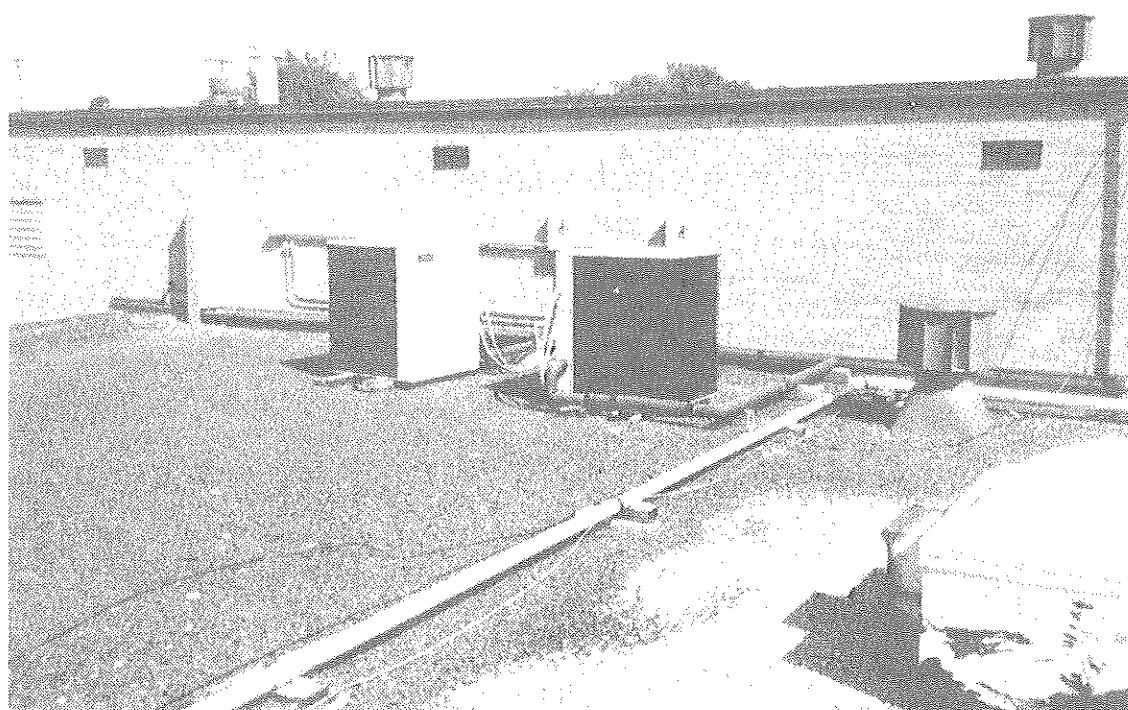
4
VIEW OF HVAC UNIT AND CONDENSATE PIPING TO BE REMOVED ON FAR NORTHWEST AREA OF AREA B. HVAC UNITS (4 TYP.) AND MOUNTING CURBS TO BE REMOVED IN THEIR ENTIRETY. HOLE IN EXISTING ROOF FOR DUCT PENETRATION TO BE FILLED IN; REFER TO NOTE #12. REMOVE EXISTING CONDENSATE PIPING, SUPPORTS AND PITCH PANS. RAISE EXISTING EXHAUST RELIEF AND MOUNT ON CURB PER DETAILS 4.04-07, 16 OR 20 DEPENDING ON CONDITION.



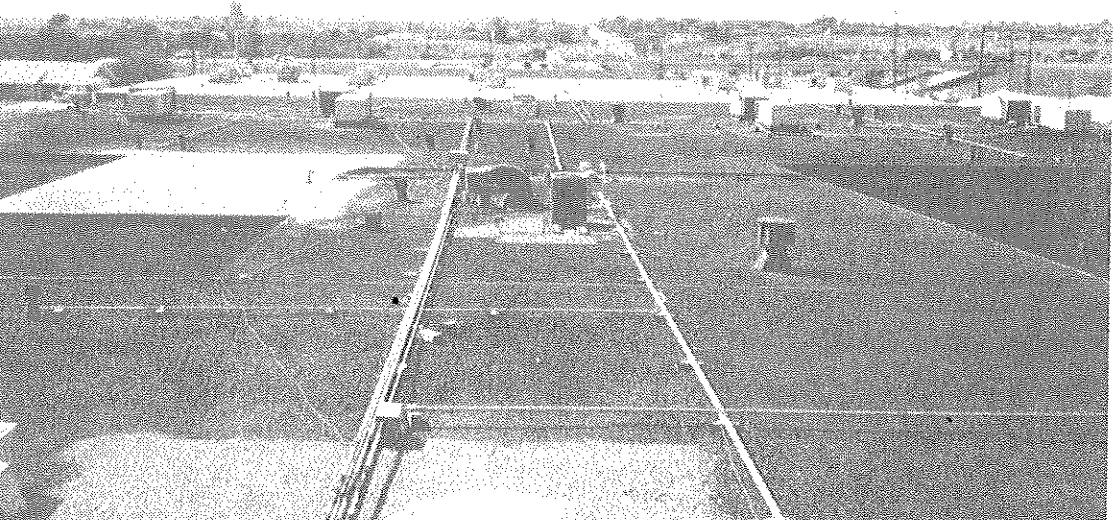
5
VIEW OF EXISTING SKYLIGHTS. REMOVE EXISTING SKYLIGHTS AND INSTALL NEW CURB MOUNTED PLASTIC SKYLIGHT UNIT ON EXISTING CURBS. WITH NEW FLASHING PER DETAIL 4.04-12 SIM. IN SAME LOCATION. REMOVE EXISTING CONDENSATE PIPING TO EXISTING VENT PIPE AND ASSOCIATED PITCH PANS AND SUPPORTS. PROVIDE NEW LEAD FLASHING AT VENTS AND PIPES.



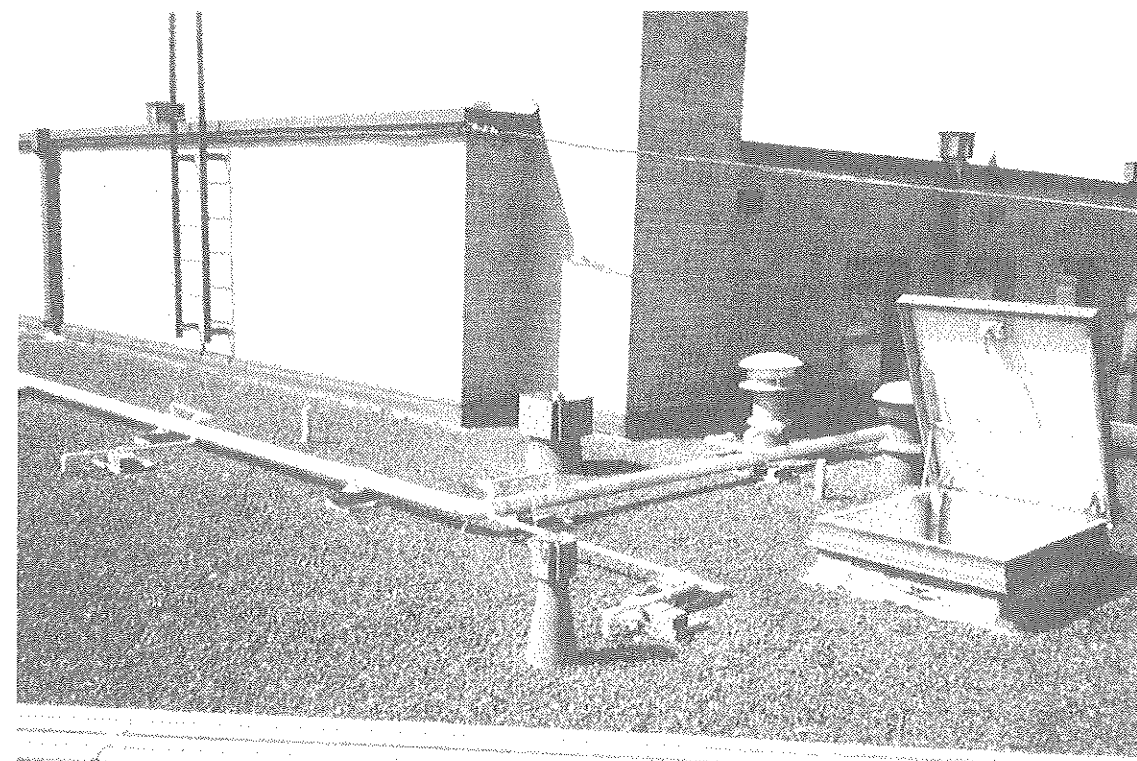
6
VIEW OF EXISTING SHEET METAL EXPANSION JOINT COVER AND TERMINATION INTO ROOF. REMOVE EXISTING COVER AND TERMINATION. EXTEND EXPANSION JOINT THROUGH TO EDGE OF ROOF PER DETAIL 4.04-17. BUILD UP EXP. JT. TO ACT AS DAM TO TAPERED INSULATION BUILD UP PER DETAIL ABOVE. MODIFY EXISTING GAS LINE TO CLEAR NEW EXPANSION JOINT. REMOVE EXISTING ELECTRICAL CONDUIT AND PENETRATIONS THROUGH ROOF. PATCH ROOF AT ABANDONED PENETRATIONS. REMOVE EXISTING CONDENSING UNIT PER DEMOLITION PLANS SHEETS 2.01 & 2.02.



7
VIEW OF EXISTING CONDENSING UNITS, REFRIGERANT AND ELECTRICAL LINES. RAISE CONDENSING UNITS AND MOUNT ON NEW 12" HIGH EQUIPMENT SUPPORTS PER DETAIL 4.04-09. REFER TO NOTE #13. EXISTING REFRIGERANT LINES ENTER WALL AT EXISTING SHEER METAL BOX RUNNING VERTICALLY ON WALL AS SHOWN ON THE LEFT IN THIS VIEW. EXISTING ELECTRICAL LINES AND DISCONNECT BOXES ON WALL TO REMAIN. REMOVE ALL PITCH PANS AND PIPE SUPPORTS AT EXISTING GAS LINE TO REMAIN. INSTALL NEW PIPE SUPPORTS PER DETAIL 4.04-05.



8
VIEW OF EXISTING ELECTRICAL CONDUITS TO THE LEFT IN PICTURE AND EXISTING GAS LINE TO THE RIGHT. REMOVE EXISTING ELECTRICAL CONDUIT AND ASSOCIATED PITCH PANS AND SUPPORTS. EXISTING GAS LINE TO REMAIN. INSTALL NEW PIPE SUPPORTS PER DETAIL 4.04-05 AND MODIFY GAS LINE TO ACCOMMODATE NEW SUPPORTS. REMOVE PITCH PANS AND EXISTING PIPE SUPPORTS.



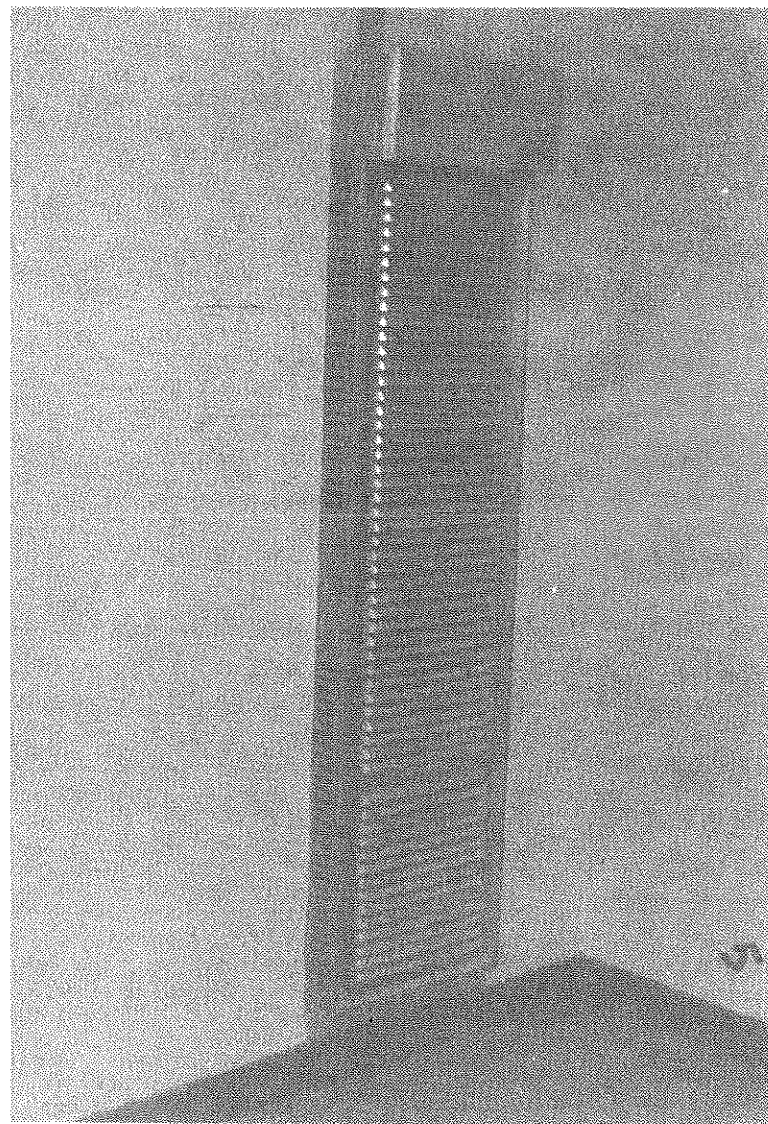
9
VIEW OF EXISTING ROOF HATCH, MASONRY CHIMNEY AND CAFETERIA WALLS. EXISTING GAS LINE TO REMAIN. REMOVE PITCH PANS AND SUPPORTS AND MODIFY GAS LINE TO ACCOMMODATE NEW PIPE SUPPORTS AS DETAILED IN 4.04-05. INSTALL NEW BASE FLASHING AT ROOF HATCH. PROVIDE NEW BASE FLASHING AT WALL OF CAFETERIA PER DETAIL 4.04-08.

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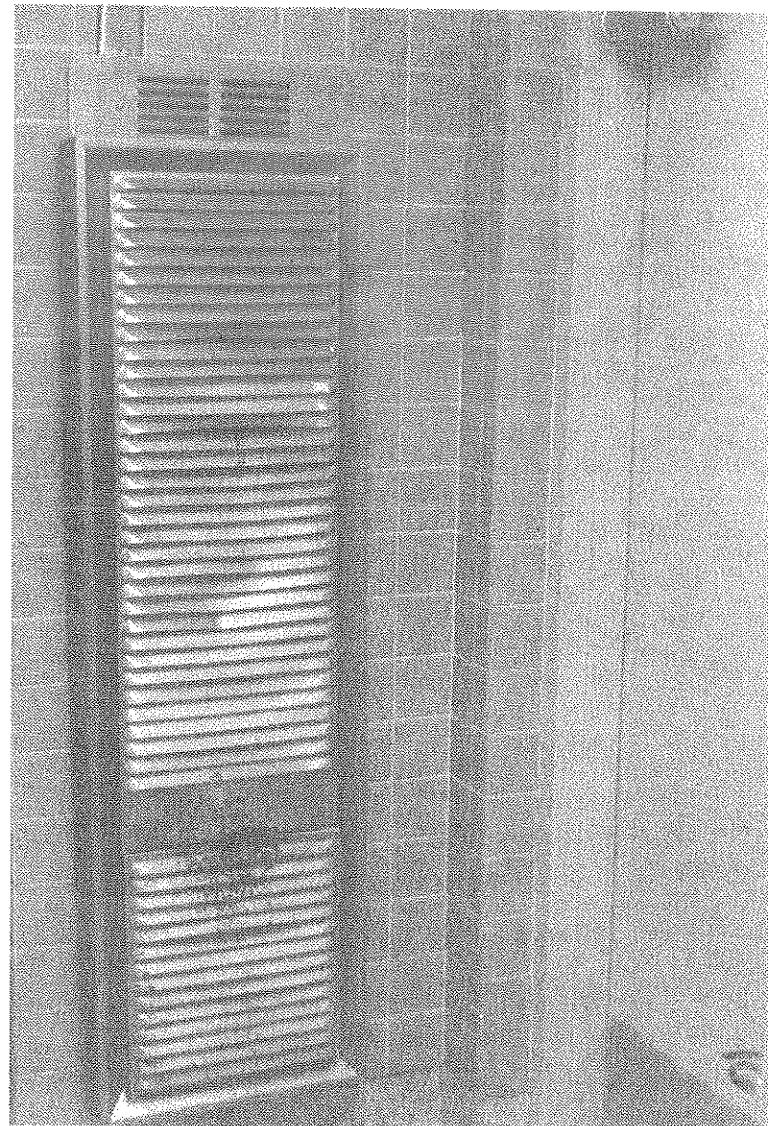
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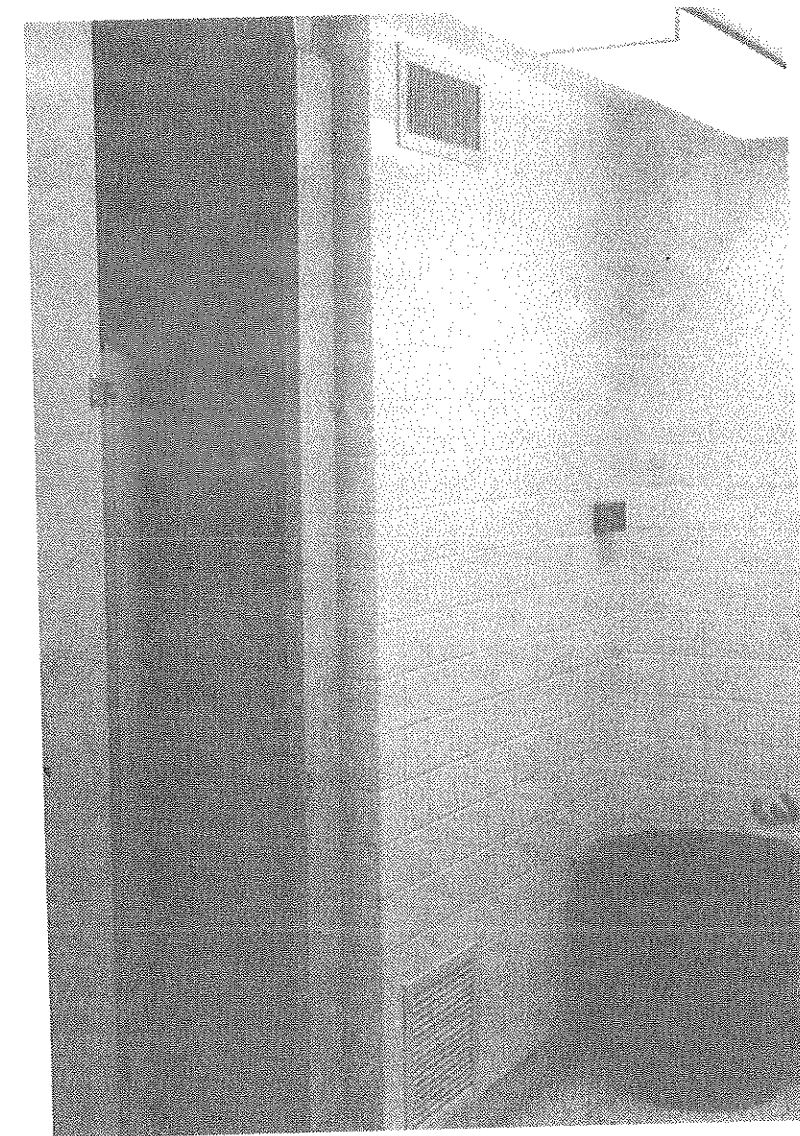
1

VIEW OF TYPICAL WALL MOUNTED HEATER AND GAS PIPING. REFER TO MEP DEMOLITION SHEET 2.01 & 2.02. PATCH WALL TO MATCH EXISTING. PAINT WHOLE WALL TO MATCH EXISTING, TERMINATING AT AN INTERSECTION OF ANOTHER WALL PLANE TO ASSURE CONSISTENT COLOR PERCEPTION.



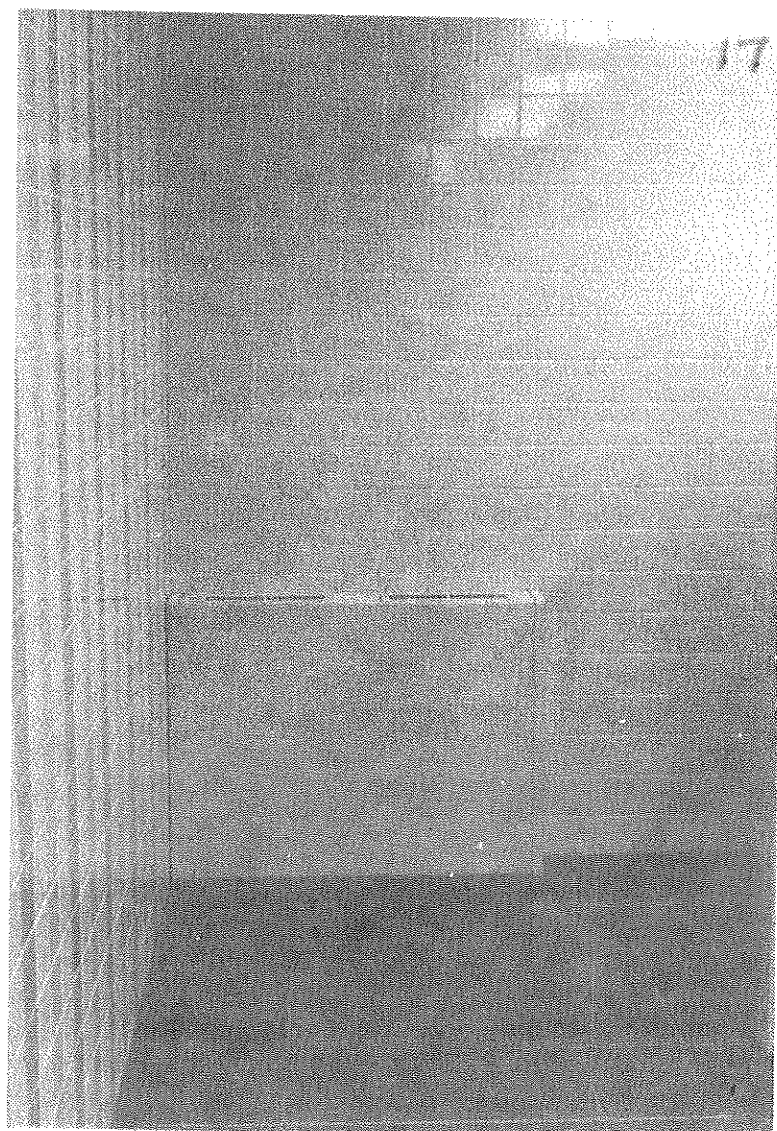
2

VIEW OF TYPICAL WALL HEATER IN TOILET ROOM. REMOVE HEATER AND GAS PIPING. PATCH WALL TO MATCH EXISTING CERAMIC WALL TILE.



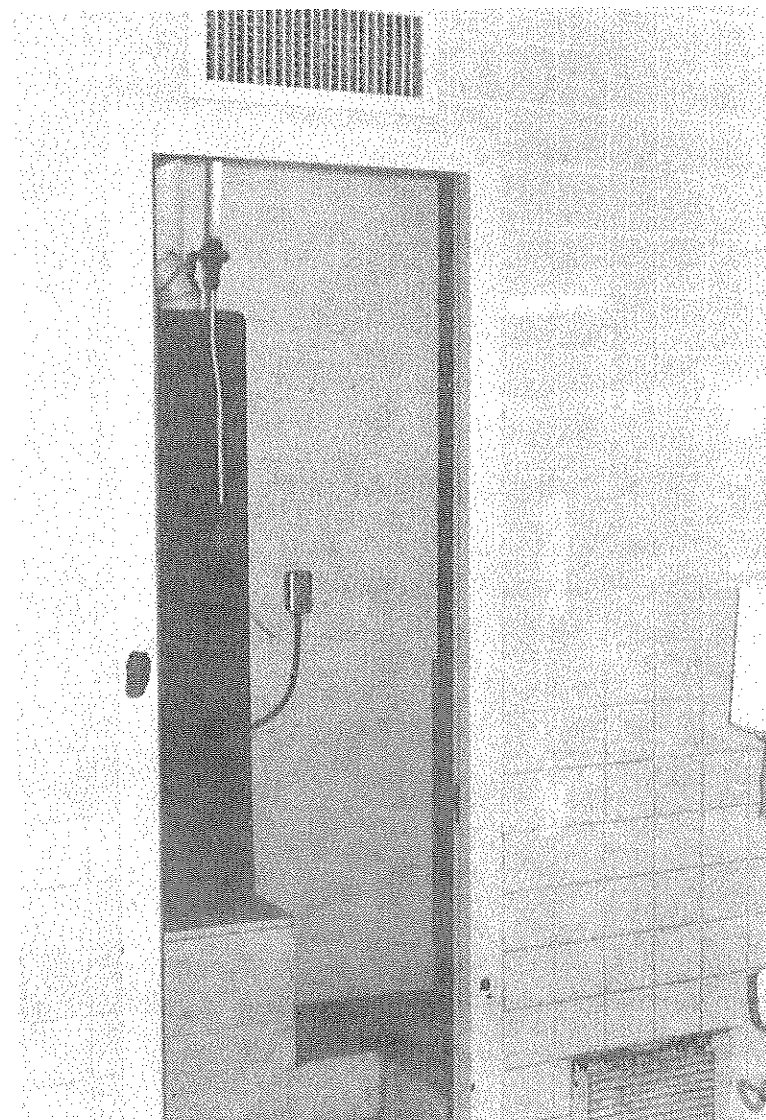
3

VIEW OF EXISTING WALL IN BOYS TOILET. REMOVE GRILLES PER MEP DEMOLITION PLANS SHEET 2.01. PATCH WALL TO MATCH EXISTING CERAMIC WALL TILE.



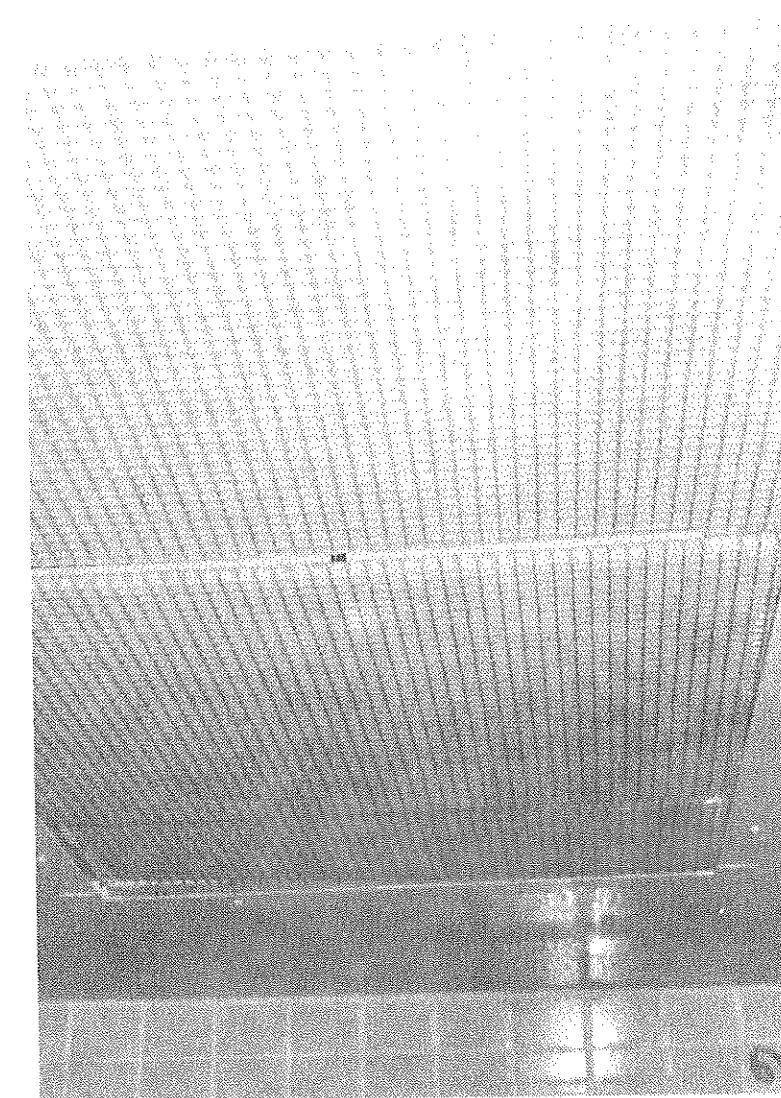
4

VIEW OF TYPICAL WALL HEATER IN GIRLS TOILET. REMOVE HEATER AND GAS PIPING PER MEP DEMOLITION PLANS 2.01 AND 2.02. PATCH WALL TO MATCH EXISTING CERAMIC WALL TILE.



5

VIEW OF FURNACE AND PLATFORM IN MECHANICAL ROOM. REMOVE FURNACE, PLATFORM AND PIPING PER MEP DEMOLITION PLANS SHEET 2.01. IN SAME MECHANICAL ROOM ON WALL NOT SHOWN IN PICTURE CUT HOLE IN EXISTING WALL TO ALLOW ACCESS TO PLUMBING CHASE FOR TIE IN OF NEW CONDENSING LINES TO EXISTING SEWER LINES. INSTALL ACCESS DOOR IN WALL TO PLUMBING WALL. PATCH ALL WALLS, CEILING AND FLOOR TO MATCH EXISTING. PAINT ENTIRE ROOM.



6

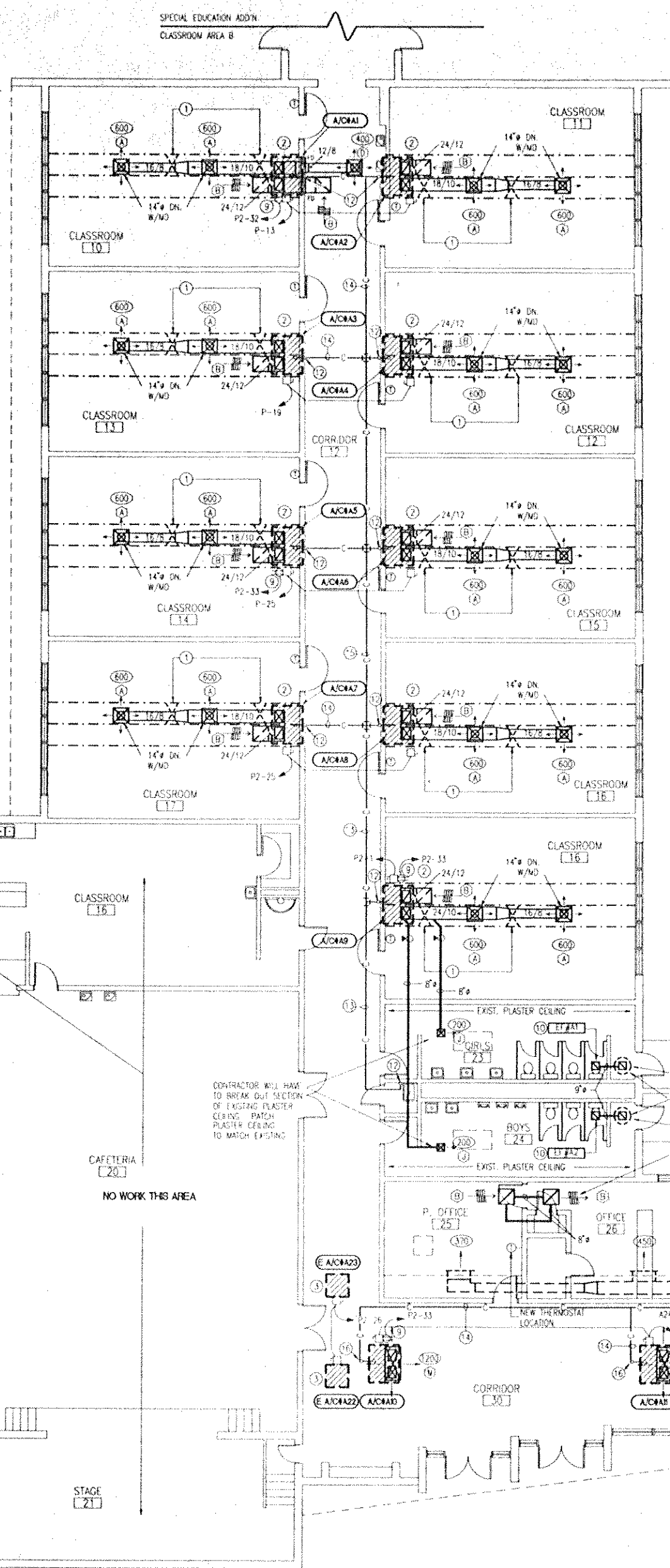
VIEW OF SKYLIGHT OPENING IN TOILET ROOM. VERIFY LOCATION OF EXISTING EGGRATES. REMOVE EGGRATE AND SUPPORT ANGLE. PATCH SKYLIGHT WELL TO MATCH EXISTING AND PAINT ENTIRE WELL. REMOVE FIXTURES AND FANS IN ALL SKYLIGHT WELLS, PATCH AND PAINT, TYPICAL.

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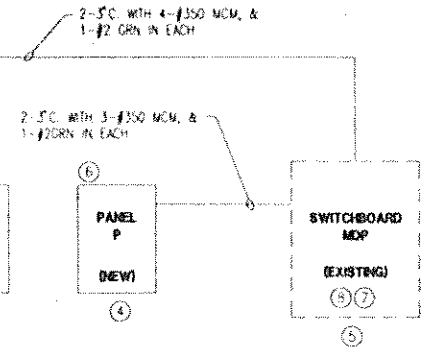
REEROOFING AND MEP RENOVATION
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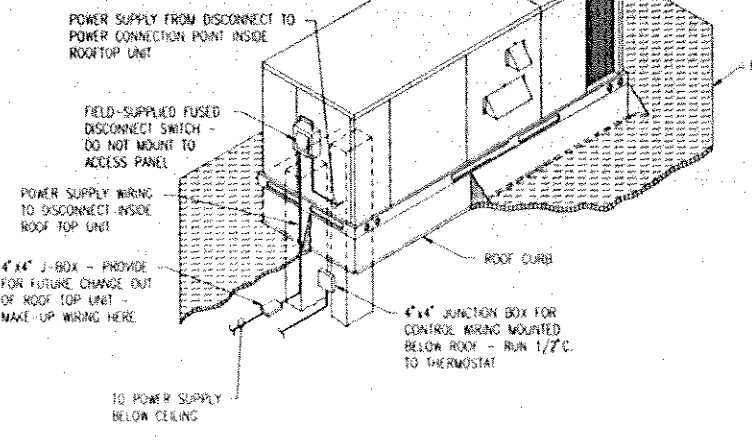
8.01-01 MECHANICAL/ELECTRICAL FLOOR PLAN AREA 'A'
 1/16"=1'-0"

- MECHANICAL & ELECTRICAL PLAN NOTES.**
- EXISTING JOIST CROSS-BRACING TO BE REMOVED AS REQUIRED, AND CHANGED TO HORIZONTAL BRACING. BRACING TO BE ROUTED PARALLEL WITH JOIST IN JOIST SPACE.
 - CONTRACTOR TO PROVIDE NEW CEILING TILE WHERE EXISTING SUPPLY AND RETURN GRILLES ARE REMOVED. CEILING TILES TO MATCH EXISTING CEILING TILE.
 - COORDINATE REINSTALLATION OF EA/C #A22, A23 ONTO NEW EQUIPMENT SUPPORTS WITH ROOFING WORK. PROVIDE AND INSTALL DRYERS ONTO REFRIGERANT LINES.
 - REMOVE EXISTING PANELBOARD FEEDING RIGS CAREFULLY LEAVING BREAKERS INTACT, AND RETURN TO OWNER.
 - EXISTING SERVICE TO REMAIN. REMOVE PANELBOARD AS NOTED IN (4) ABOVE AND INSTALL PANELBOARDS "P" AND "P2" PER SCHEDULES AND SPECIFICATIONS.
 - INSTALL CONDENSIT TO RIGS IN ACCESSIBLE ATTIC SPACE FROM PANELS "P" AND "P2".
 - LABEL EXISTING MAIN SWITCHBOARD "MOP" AND PANELS "P" AND "P2" AS SPECIFIED.
 - INSTALL ONE 800A 3 POLE BREAKER IN EXISTING "MOP" SWITCHBOARD TO FEED NEW SWITCHGEAR AS SHOWN ON RISER.
 - WEATHER-PROOF OUTLET MOUNTED TO DISCONNECT AND CIRCULATED TO PANEL AS SHOWN. SIZE CONDUCTORS W/ MINORS. VOLTAGE DROP AS PER SPECIFICATIONS.
 - CONNECT NEW EXHAUST-FAN TO EXISTING RESTROOM LIGHTING CIRCUIT.
 - MAINTAIN EXISTING CONDENSATE DRAIN STUB-UP IN CLOSET FOR NEW A/C #A21, A22, AND A23. ROUTE 3/4" CONDENSATE DOWN.
 - EXISTING MOP-TANK TO BE USED FOR CONDENSATE DISCHARGE FROM A/C #A21, A22, AND A23. ROUTE 3/4" CONDENSATE DOWN THRU ROOF AT EACH UNIT AND ROUTE ABOVE CORRIDOR CEILING TO MOP-TANK.
 - 1 1/4" CONDENSATE DRAIN ABOVE CEILING.
 - 3/4" CONDENSATE DRAIN ABOVE CEILING.
 - 1" CONDENSATE DRAIN ABOVE CEILING.
 - 3/4" CONDENSATE DRAIN THRU ROOF.
 - 1 1/4" CONDENSATE DRAIN IN CLOSET. PROVIDE AND INSTALL 1" HUB DRAIN AND 16" x 24" EXISTING SUMP DRAIN IN PLUMBING CHASE (WITH TRAP PLENUM). SAW CUT WALL AND FLOOR TO MATCH EXISTING. ACCESS DOOR TO BE INSTALLED IN WALL.

8.01-03 ROOFTOP HVAC WIRING
 N.T.S.



8.01-02 ELECTRICAL RISER
 N.T.S.



PANELBOARD P

SERVICE: 208V, 3Ø, 3W MAINS: 600A M.L.O. BRANCH AC: 10,000
 LOAD: 367 AMPS LOCATION: EXTERIOR CABINET & MFG. SURFACE - G.E.: AQ (NEMA 3R)

DESCRIPTION	POLE	AMP	WIRE	CHG	WIRE	DESCRIPTION
A/C #A1 & A2 - 3 TON 30A DISC, 30A FUSES AT EACH	2	60	3	12	2	A/C #A13 & A14 - 4 TON & 3 TON 30A DISC, 40A FUSES AT AC #A13
A/C #A3 & A4 - 3 TON 30A DISC, 30A FUSES AT EACH	3	60	4	9	2	A/C #A15 & A16 - 5 TON & 3 TON 30A DISC, 40A FUSES AT AC #A15
A/C #A5 & A6 - 4 TON & 3 TON 30A DISC, 40A FUSES AT AC #A5	3	70	2	14	1	A/C #A17 - 3 TON 30A DISC, 30A FUSES
A/C #A3 & A4 - 3 TON 30A DISC, 30A FUSES AT EACH	3	60	4	9	2	A/C #A18 & A19 - 3 TON 30A DISC, 30A FUSES AT EACH
A/C #A5 & A6 - 3 TON 30A DISC, 30A FUSES AT EACH	3	60	4	9	2	A/C #A20 & A21 - 3 TON & 4 TON 30A DISC, 30A FUSES AT AC #A20
A/C #A5 - EXISTING UNIT USE EXISTING DISC & FUSES	3	35	3	12	3	A/C #A8 - EXISTING UNIT USE EXISTING DISC & FUSES
BLANK		20	12	9	18	BLANK
BLANK		20	12	9	18	BLANK

PANELBOARD P2

SERVICE: 120/208V, 3Ø, 4W MAINS: 600A M.L.O. BRANCH AC: 10,000
 LOAD: 348 AMPS LOCATION: EXTERIOR CABINET & MFG. SURFACE - G.E.: AQ (NEMA 3R)

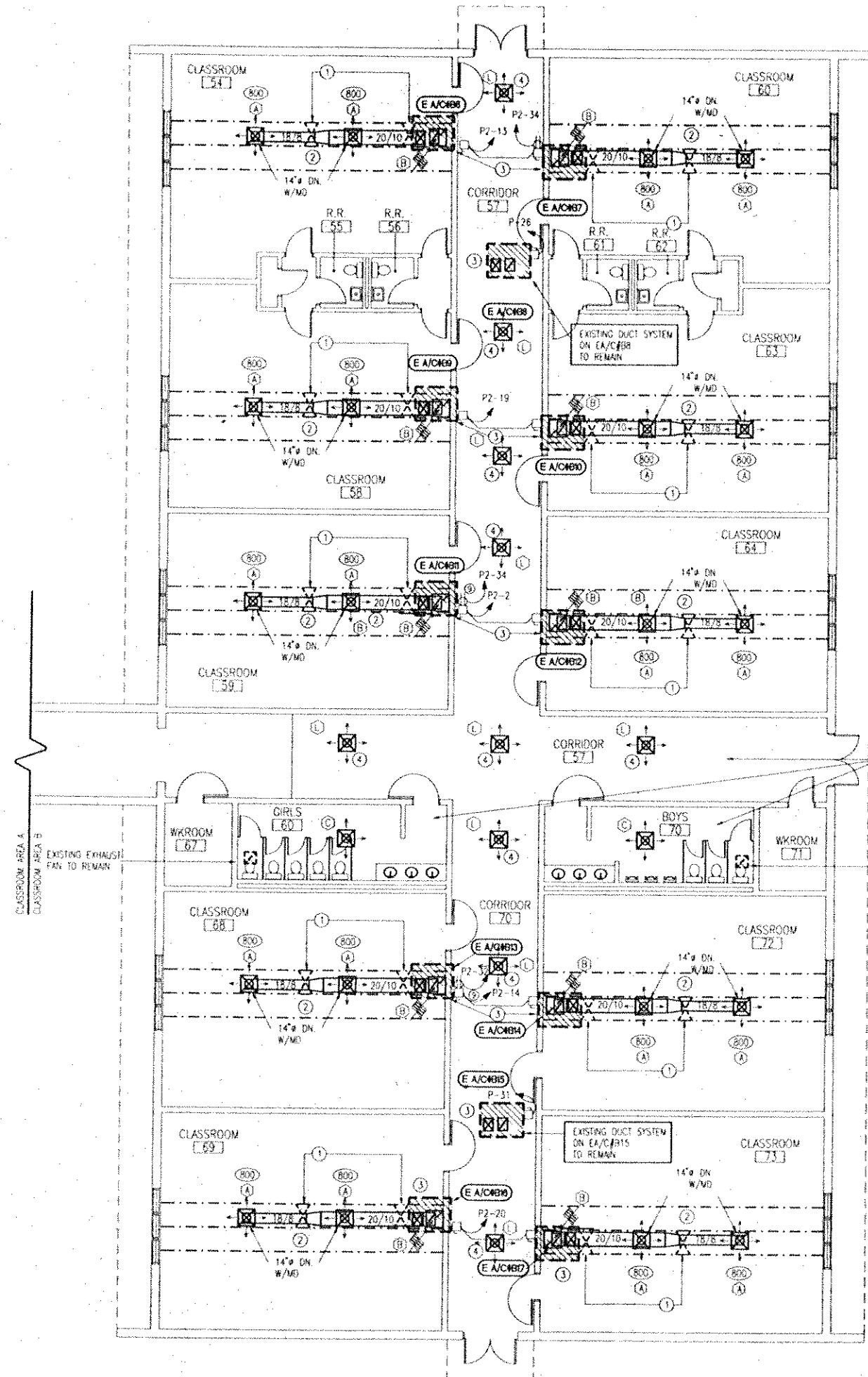
DESCRIPTION	POLE	AMP	WIRE	CHG	WIRE	DESCRIPTION
A/C #A8 - 4 TON 30A DISC, 40A FUSES	3	40	6	2	1	A/C #B1 & B2 - EXISTING UNITS USE EXISTING DISC & FUSES
A/C #A10 & A11 - 3 TON 30A DISC, 30A FUSES AT EACH	3	60	6	8	4	A/C #A12 - 5 TON 30A DISC, 45A FUSES
A/C #A6 & A7 - EXISTING UNITS USE EXISTING DISC & FUSES	3	70	2	14	2	A/C #B3 & B4 - EXISTING UNITS USE EXISTING DISC & FUSES
A/C #A8 & B10 - EXISTING UNITS USE EXISTING DISC & FUSES	3	70	2	14	2	A/C #B5 & B7 - EXISTING UNITS USE EXISTING DISC & FUSES
A/C #A7 & A8 - 3 TON 30A DISC, 30A FUSES AT EACH	3	60	6	2	26	A/C #A22 & A23 - EXISTING UNITS USE EXISTING DISC & FUSES
OUTLETS ON DISCONNECTS A/C #A3 - 3 TON 30A DISC, 30A FUSES	1	20	12	9	18	OUTLETS ON DISCONNECTS
OUTLETS ON DISCONNECTS	1	20	12	9	18	OUTLETS ON DISCONNECTS
BLANK		1	1	1	1	BLANK
BLANK		1	1	1	1	BLANK

- GENERAL NOTES:**
- ALL NEW ROOFTOP UNIT INSTALLATIONS TO REQUIRE NEW ROOF OPENINGS CUT IN ROOF. COORDINATE INSTALLATION OF NEW 2'-0" HIGH ROOF CURBS WITH ROOFING WORK. ALL ROOF CURB CAPS TO BE WATER TIGHT.
 - REUSE EXISTING ROOF OPENINGS WHERE POSSIBLE. ALL EXISTING CURBS AT THESE EXISTING ROOF OPENINGS ARE TO BE REMOVED.
 - NEW GRILLES IN CLASSROOMS ARE TO BE INSTALLED INTO EXISTING CEILING GRID SYSTEM. COORDINATE EXISTING GRID SYSTEM, EXISTING LIGHTS WITH NEW GRILLES AND SHUT EQUIPMENT AS NECESSARY. THESE GRILLE LOCATIONS SHALL BE DETERMINED BEFORE ROOF OPENINGS ARE CUT INTO ROOF.

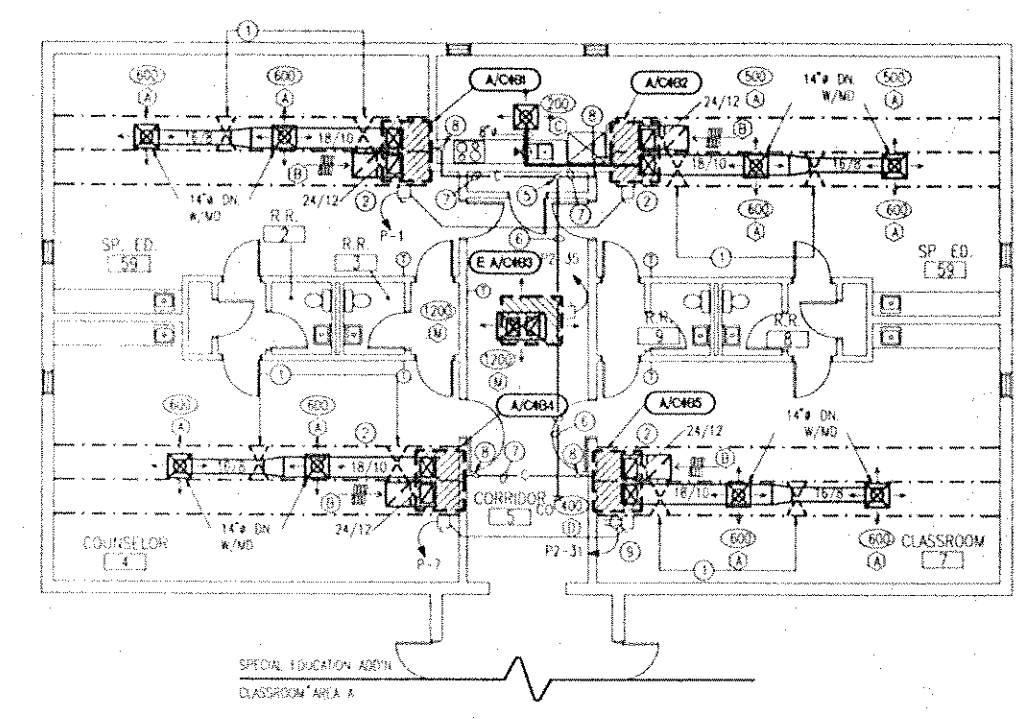


JRP ARCHITECTS, INC.
 1000 N. ...
 KILLEEN, TEXAS

CLIFTON PARK ELEMENTARY SCHOOL
 BELL COUNTY KILLEEN, TEXAS
 KILLEEN INDEPENDENT SCHOOL DISTRICT



8.02-01 MECHANICAL/ELECTRICAL FLOOR PLAN AREA 'B'
 1/16" = 1'-0"



8.02-02 MECHANICAL/ELECTRICAL FLOOR PLAN AREA 'B'
 1/16" = 1'-0"

- MECHANICAL & ELECTRICAL PLAN NOTES:**
- EXISTING JOIST CROSS-BRACING TO BE REMOVED AS REQUIRED, AND CHANGED TO HORIZONTAL BRACING. DUCTWORK TO BE ROUTED PARALLEL WITH JOIST IN JOIST SPACE.
 - CONTRACTOR TO PROVIDE NEW CEILING TILE WHERE EXISTING SUPPLY AND RETURN GRILLES ARE REMOVED. CEILING TILES TO MATCH EXISTING CEILING TILE.
 - EXISTING ROOFTOP UNITS TO REMAIN.
 - INSTALL NEW CEILING DIFFUSERS, AND 9" DIA. SUPPLY DUCTS AND TIE INTO EXISTING SUPPLY TRUNK DUCTS.
 - 1 1/4" CONDENSATE DRAIN DOWN IN ROOM TO SINK P-TRAP IN ADJACENT ROOM. PROVIDE AND INSTALL NEW P-TRAP TO EXISTING SINK WITH DOWNCORKER TRAP ARMER.
 - 1" CONDENSATE DRAIN ABOVE CEILING.
 - 3/4" CONDENSATE DRAIN ABOVE CEILING.
 - 3/4" CONDENSATE DRAIN DOWN THRU ROOF TO CEILING SPACE.

- GENERAL NOTES:**
- ALL NEW ROOFTOP UNIT INSTALLATIONS TO REQUIRE NEW ROOF OPENINGS CUT IN ROOF. COORDINATE INSTALLATION OF NEW 2'-0" HIGH ROOF CURBS WITH ROOFING WORK.
 - NEW GRILLES IN CLASSROOMS ARE TO BE INSTALLED INTO EXISTING CEILING GRID SYSTEM. COORDINATE EXISTING GRID SYSTEM, EXISTING LIGHTS WITH NEW GRILLES AND SHUT EQUIPMENT AS NECESSARY. THESE GRILLE LOCATIONS SHALL BE DETERMINED BEFORE ROOF OPENINGS ARE CUT INTO ROOF.
 - REFER TO SHEET 8.03 FOR CONDENSATE DRAIN PIPING IN AREA 'B'.

ALL EXISTING SUPPLY AND RETURN GRILLES IN CORRIDORS AND BOYS AND GIRLS RESTROOMS SHALL BE CHANGED AND TIED BACK INTO EXISTING DUCTWORK.

EXISTING EXHAUST FAN TO REMAIN.

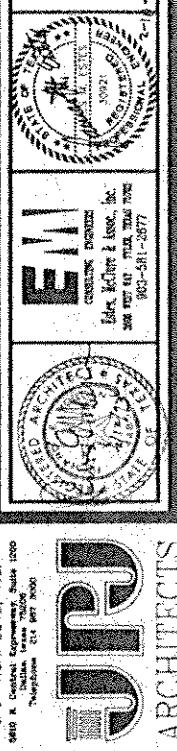
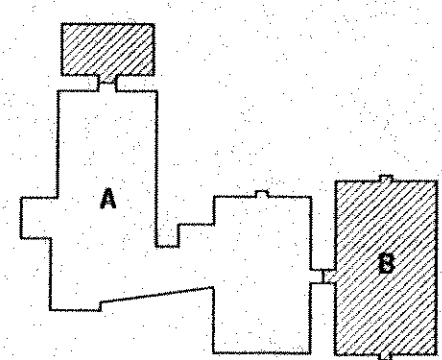
A/C SCHEDULE									
MARK	NOM. TONS	COOLING CAPACITY (BTU/H)	HEAT INPUT (BTU/H)	SYSTEM CFM	F/A CFM	ELECTRICAL DATA	MFG. USED IN DESIGN	LENNOX PART NO.	REMARKS
1	3.0	35.5	29.5	5000	1700	208V, 3W	CS216-413-50	ROOFTOP	2'-0" TALL ROOF CURB, CURB POWER ENTRY KIT
2	4.0	48.5	38.6	75,000	1800	208V, 3W	CS216-513-75	ROOFTOP	2'-0" TALL ROOF CURB, CURB POWER ENTRY KIT
AC #412 AC #415	5.0	67.2	46.5	75,000	2000	208V, 3W	CS216-653-75	ROOFTOP	2'-0" TALL ROOF CURB, CURB POWER ENTRY KIT

① A/C #412, #413, #414, #415, #416, #417, #418, #419, #420, #421, #422, #423, #424, #425
 ② A/C #414, #415, #421
 ③ A/C #416, #417, #418, #419, #420, #421, #422, #423, #424, #425 ARE EXISTING ROOFTOP UNITS TO REMAIN.

MECHANICAL SYMBOLS	
THERMOSTAT	①
GRILLE TYPE	
RETURN AIR GRILLE WITH ARROW	⊖
SUPPLY GRILLE W/ AIR FLOW	⊕
FLEX DUCT	⊞
CFM (CURB FT PER MIN)	⊞
OPPOSED BLADE DAMPER	⊞
DUCT DIAMETER	⊞
EXISTING DUCT	⊞
FIRE DAMPER	⊞
MANUAL DAMPER	⊞
PANEL SUPPLY DIFFUSER	⊞
SPLITTER DAMPER	⊞

GRILLE SCHEDULE					
MARK	DESCRIPTION	MODEL	FINISH	NECK	REMARKS
A	CEILING SUPPLY DIFFUSER	METALARE 5800-6	OFF-WHITE	12"ø	
B	CEILING RETURN GRILLE	METALARE 605-TH	ALUM.	24" x 24"	
C	CEILING SUPPLY DIFFUSER	METALARE 5800-6	ALUM.	8"ø	
D	CEILING SUPPLY DIFFUSER	METALARE 5800-6	ALUM.	12"ø	
E	CEILING SUPPLY REGISTER	METALARE L	ALUM.	6" x 6"	
F	SIDEWALL RETURN GRILLE	METALARE RH	ALUM.	16" x 6"	
G	SIDEWALL RETURN GRILLE	METALARE RH	ALUM.	24" x 6"	
H	DOOR GRILLE	METALARE 66-DF	ALUM.	16" x 16"	
I	CEILING RETURN GRILLE	METALARE 605	ALUM.	12" x 12"	
J	CEILING SUPPLY REGISTER	METALARE L	ALUM.	12" x 12"	ONE-WAY
K	EXHAUST RELIEF	BREDFRY RC2	ALUM.	12" x 12"	ROOF CURB
L	CEILING SUPPLY DIFFUSER	METALARE 5800-6	OFF-WHITE	10"ø	
M	CONCENTRIC SUPPLY & RETURN	LENNOX K29-65	ALUM.	24" x 48"	FLUSH MOUNT

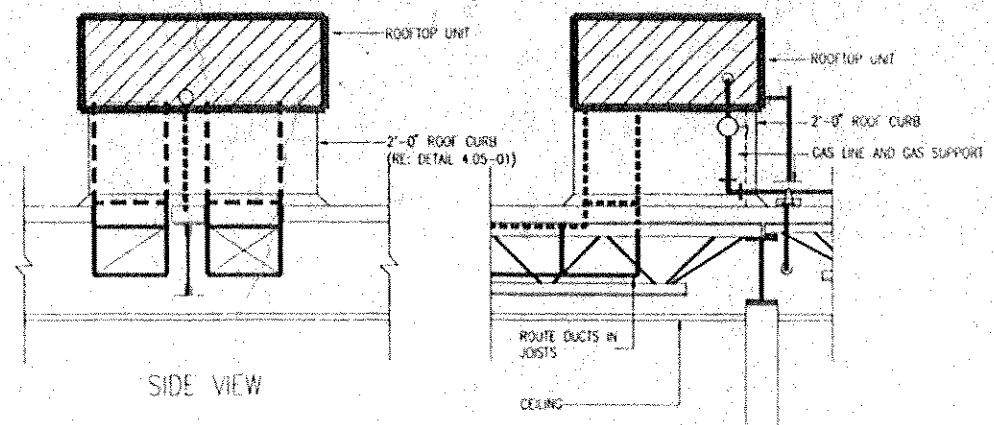
EXHAUST FANS				
MARK	C.F.M. @ 1/2" S.P.	MOTOR H.P.	MANUFACTURER & NO.	ACCESSORIES
1EAF1A21A14	500	1/2	PENNY 210	120 V., VARIABLE SPEED CONTROLLER



J.P. ARCHITECTS, INC.
 1000 N. W. 10th St., Suite 1000
 Fort Lauderdale, FL 33304
 Phone: (305) 551-1000
 Telex: 511107

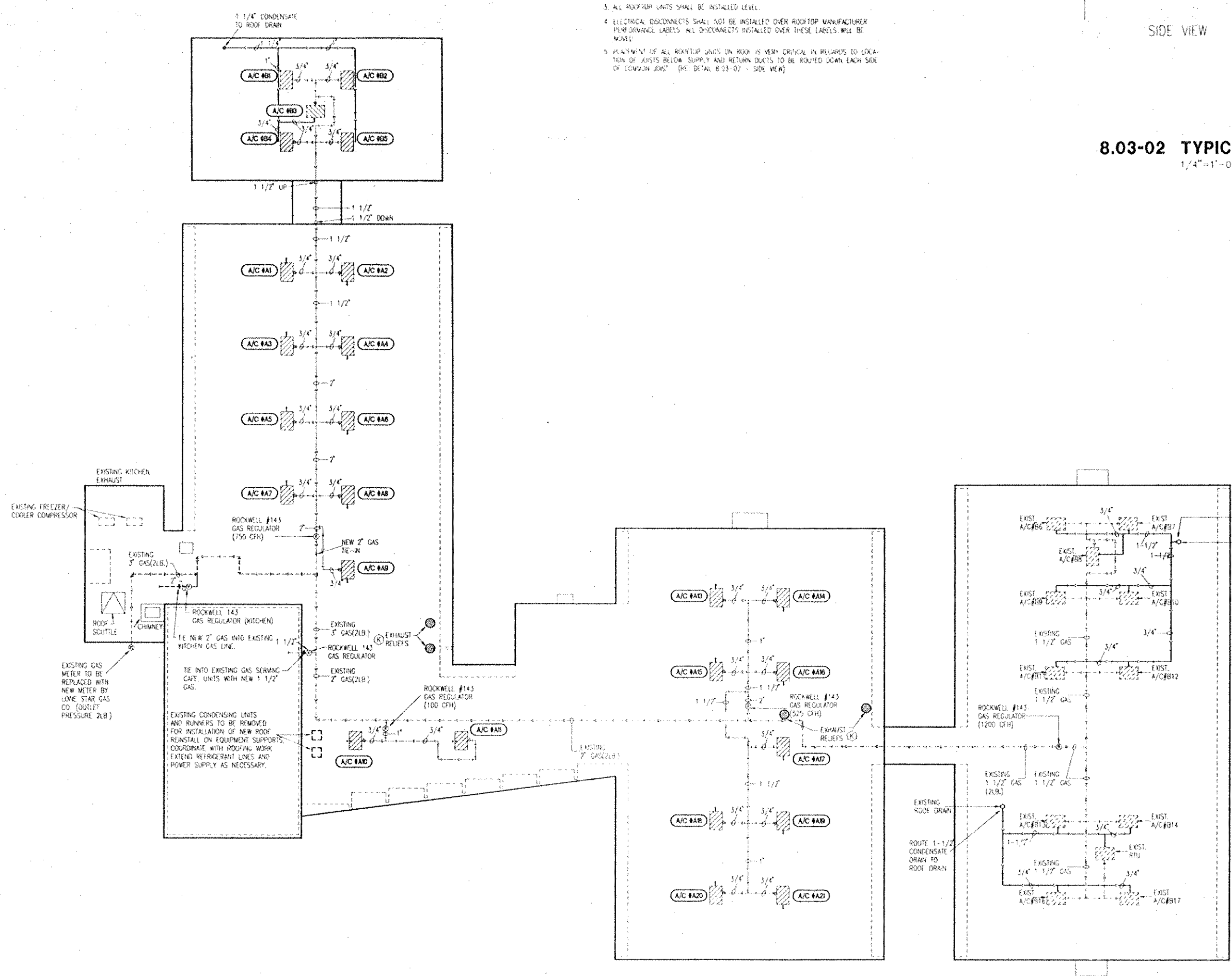
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CLIFTON PARK ELEMENTARY SCHOOL
 BELL COUNTY
 KILLEEN, TEXAS
 INDEPENDENT SCHOOL DISTRICT

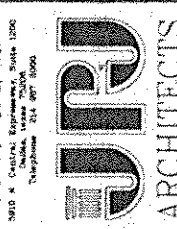
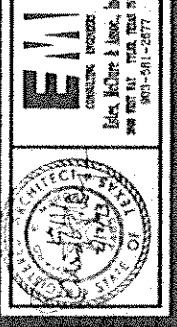


8.03-02 TYPICAL ROOFTOP UNIT SECTION
 1/4"=1'-0"

- GENERAL NOTES:
1. REFER TO SHEETS 8.01 AND 8.02 FOR ROUTING OF CONDENSATE PIPING. CONDENSATE PIPING FOR AREA 'A' AND A PORTION OF AREA 'B' IS ROUTED ABOVE CEILING.
 2. ALL NEW ROOFTOP UNITS SHALL BE INSTALLED ONTO 2"-0" ROOF CURBS.
 3. ALL ROOFTOP UNITS SHALL BE INSTALLED LEVEL.
 4. ELECTRICAL DISCONNECTS SHALL NOT BE INSTALLED OVER ROOFTOP MANUFACTURER PERFORMANCE LABELS. ALL DISCONNECTS INSTALLED OVER THESE LABELS WILL BE MAILED.
 5. PLACEMENT OF ALL ROOFTOP UNITS ON ROOF IS VERY CRITICAL IN REGARDS TO LOCATION OF JOISTS BELOW SUPPLY AND RETURN DUCTS TO BE ROUTED DOWN EACH SIDE OF COMMON JOIST (SEE DETAIL 8.03-02 - SIDE VIEW).




8.03-01 MECHANICAL ROOF PLAN
 1/32"=1'-0"



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 KILLEEN, TEXAS
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