RENOVATIONS TO

BURNHAM SCHOOL
BRIDGEWATER, CONNECTICUT

SHEPAUG VALLEY
REGIONAL SCHOOL DISTRICT NO. 12

C. J. LAWLER ASSOCIATES · ARCHITECTS & PLANNERS

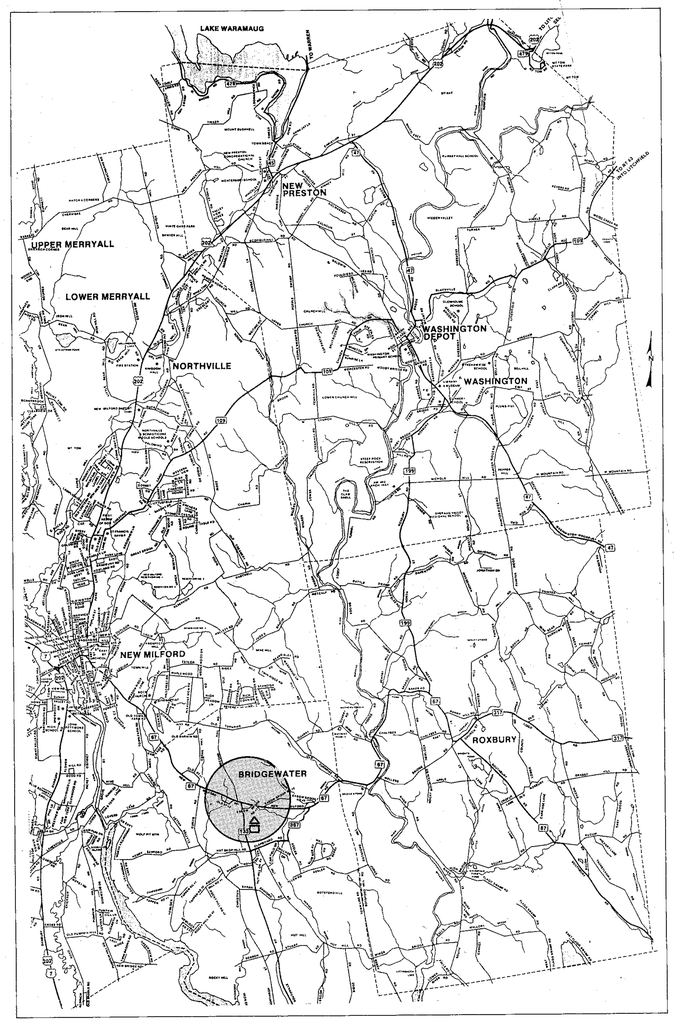
7 SOUTH MAIN STREET
WEST HARTFORD, CONNECTICUT 203 233-8526

GIRARD & CO. ENGINEERS · STRUCTURAL CONSULTANT

BURTON & VAN HOUTEN ENGINEERS, INC. · MECHANICAL & ELECTRICAL CONSULTANT

M. R. ROMING ASSOCIATES, P.C. · LANDSCAPE ARCHITECT

TORRES ENGINEERING, INC. · CIVIL ENGINEERS



DRAWING LIST:

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A2 FIRST FLOOR DEMOLITION PLAN AND ATTIC PLAN
A3 BASEMENT PLAN AND DETAILS
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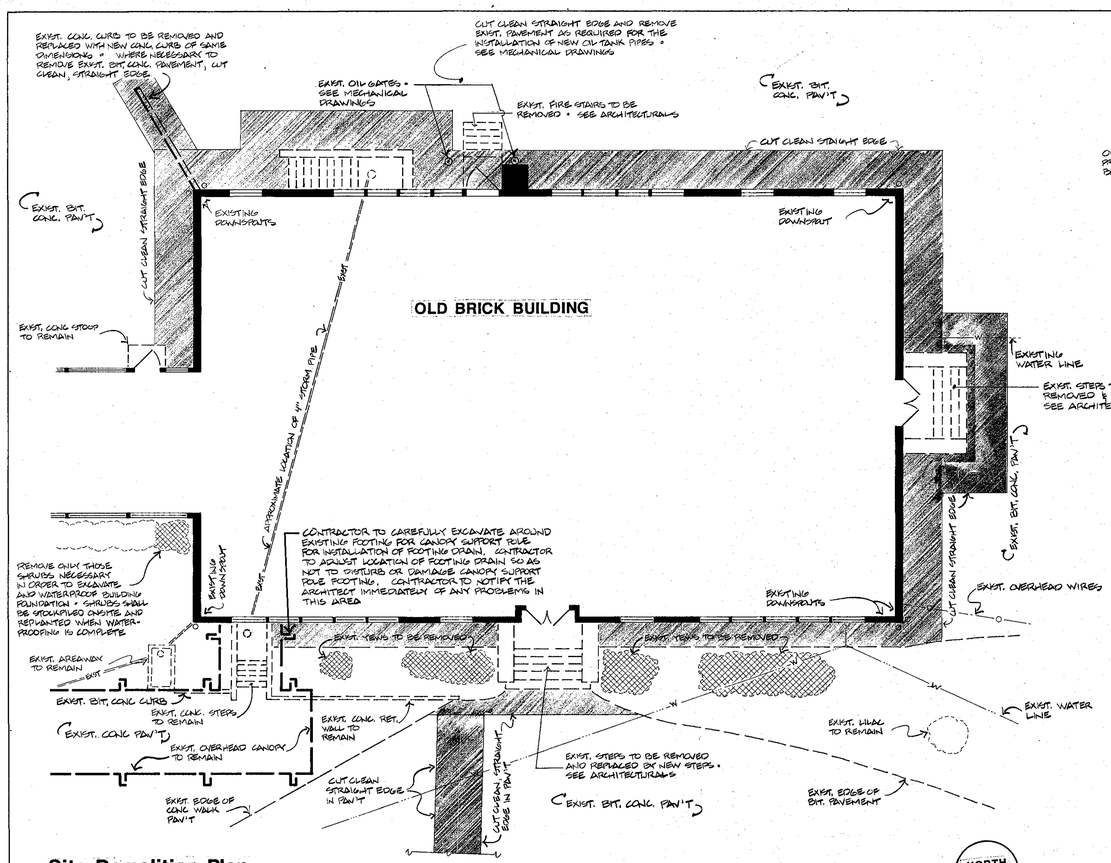
E6 FIRST FLOOR PART PLAN - POWER
E7 RISER DIAGRAM, LEGEND, SCHEDULE & DETAILS

CODE INFORMATION:

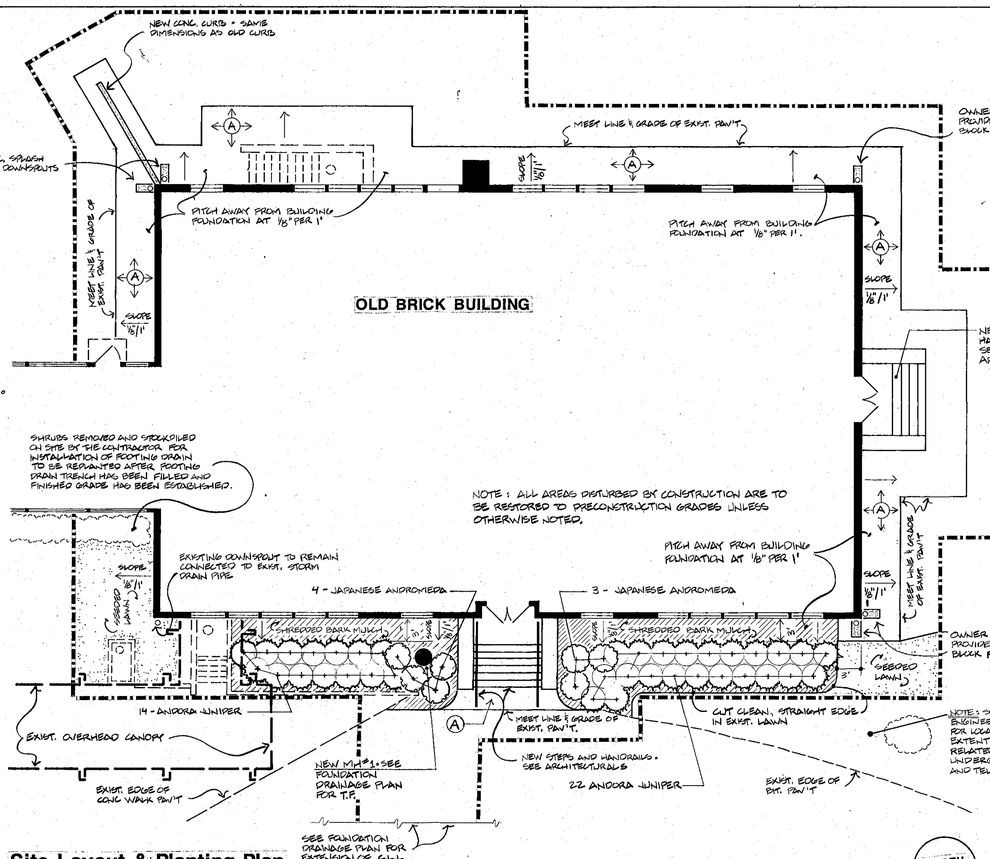
USE GROUP E - EDUCATIONAL
OCCUPANCY LOAD FOR ALL-PURPOSE ROOM 131 - 428

#4



Site Demolition Plan

Scale: 1/8" = 1'-0"



Site Layout & Planting Plan

Scale: 1/8" = 1'-0"

General Notes

1 BUILDING FOOTPRINT AND EXISTING SITE FEATURES TAKEN FROM A PLAN ENTITLED " FIRST FLOOR DEMOLITION PLAN", DRAWING NO. A-2, PROGRESS PRINT RECEIVED 1 MAY 1988, AS PREPARED BY C.J. LAWLER ASSOCIATES, ARCHITECTS & PLANNERS, 7 SOUTH MAIN STREET, WEST HARTFORD, CT. 06107

2 ADDITIONAL TOPOGRAPHIC AND EXISTING CONDITIONS TAKEN FROM A DRAWING ENTITLED "TOPOGRAPHIC SURVEY MAP - THE BURNHAM SCHOOL - BRIDGEWATER, CONN.", DRAWING NO. 2201, SCALE 1"=20', REVISED DATE: 5-23-88, AS PREPARED BY IGOR VECHESLOFF, PROFESSIONAL ENGINEER & LAND SURVEYOR, 51 LORRAINE STREET, HARTFORD, CT.

3 ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND HE SHALL BE HELD RESPONSIBLE FOR SAME.

4 ALL DIMENSIONS AT 90° UNLESS OTHERWISE NOTED.

5 THE CONTRACTOR SHALL RESTORE TO ORIGINAL CONDITION ANY EXISTING WALK OR ROAD PAVEMENT LAWN AREAS DAMAGED DURING CONSTRUCTION.

6 THE CONTRACTOR (S) SHALL MAINTAIN ACCESS TO THE SCHOOL AT ALL TIMES FOR EMPLOYEES, STUDENTS AND EMERGENCY VEHICLES.

Legend

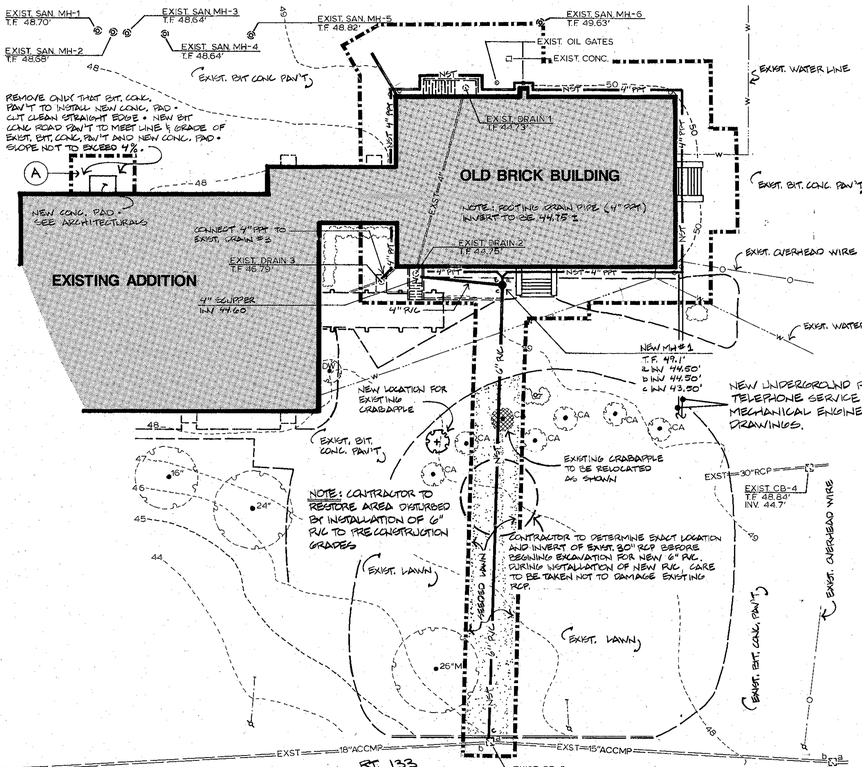
- EXISTING VEGETATION TO REMAIN
- EXISTING VEGETATION TO BE REMOVED
- AREA OF EXIST. BIT. CONC. PAVEMENT TO BE REMOVED
- CONTRACT LIMIT LINE
- EXISTING EDGE OF PAVEMENT
- NEW PLANT MATERIAL
- EXIST. CONTOUR
- EXIST. WATER LINE
- EXIST. STORM DRAINAGE LINE
- EXIST. DOWNSPOUT
- EXIST. SANITARY SEWER MANHOLE
- EXIST. CATCH BASIN
- EXIST. DRAIN
- EXIST. CURBING
- EXIST. OIL GATE
- EXIST. UTILITY POLE
- EXIST. OVERHEAD WIRE
- EXIST. UTILITY POLE GUY WIRE
- EXIST. TREE TO REMAIN
- EXIST. FLAGPOLE
- NEW STORM DRAINAGE/FOUNDATION PIPE
- NEW STORM SEWER MANHOLE
- DW DOGWOOD
- M MAPLE
- CA CRABAPPLE
- NEW SHREDDED BARK MULCH

Plant List

QUAN.	BOTANICAL NAME	COMMON NAME	SIZE	COND.
36	JUNIPERUS HORIZONTALIS PLUMOSA	ANDORA JUNIPER	2'-2½' SPD.	B&B
7	PIERIS JAPONICA	JAPANESE ANDROMEDA	2½'-3' HT.	B&B

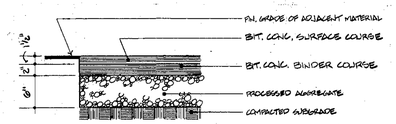
Plant Notes

1 ALL PLANT MATERIAL TO BE NURSERY GROWN OR SPECIMEN. NO COLLECTED MATERIAL WILL BE ALLOWED.



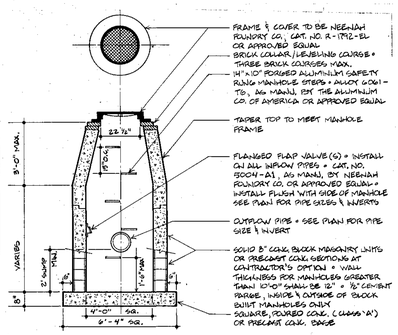
Site Foundation Drainage Plan

SCALE: 1" = 20'



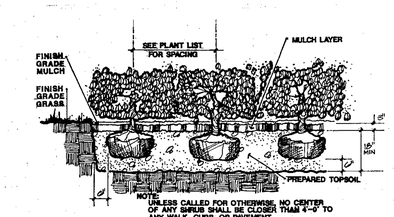
(A) BIT. CONC. ROAD PAV'T

NOT TO SCALE



STORM SEWER MANHOLE (MH #)

NOT TO SCALE



SHRUB BED PLANTING

NOT TO SCALE

C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
7 SOUTH MAIN STREET WEST HARTFORD, CT. 06107 [203] 233-6626

SCALE: AS SHOWN
DRAWN BY: DEB
DATE: 1 FEBRUARY 1989
REVISIONS:

M.R. ROMING ASSOCIATES P.C.
Landscape Architects · Land Planners
West Hartford Connecticut

SITE PLAN

L-1

BURNHAM SCHOOL

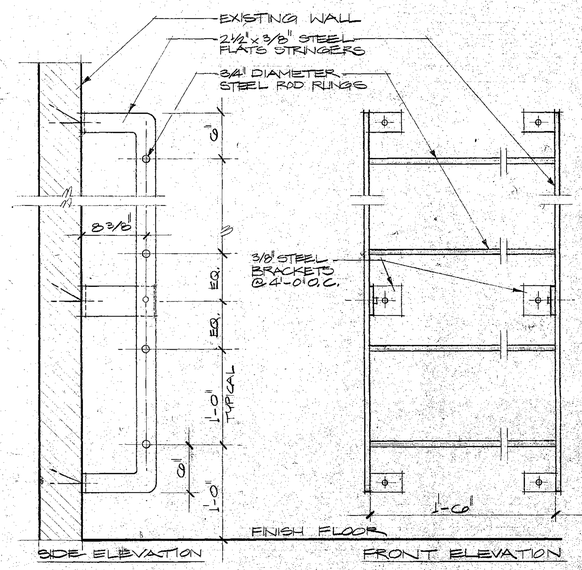
NOTES & KEY

Remove existing door and frame

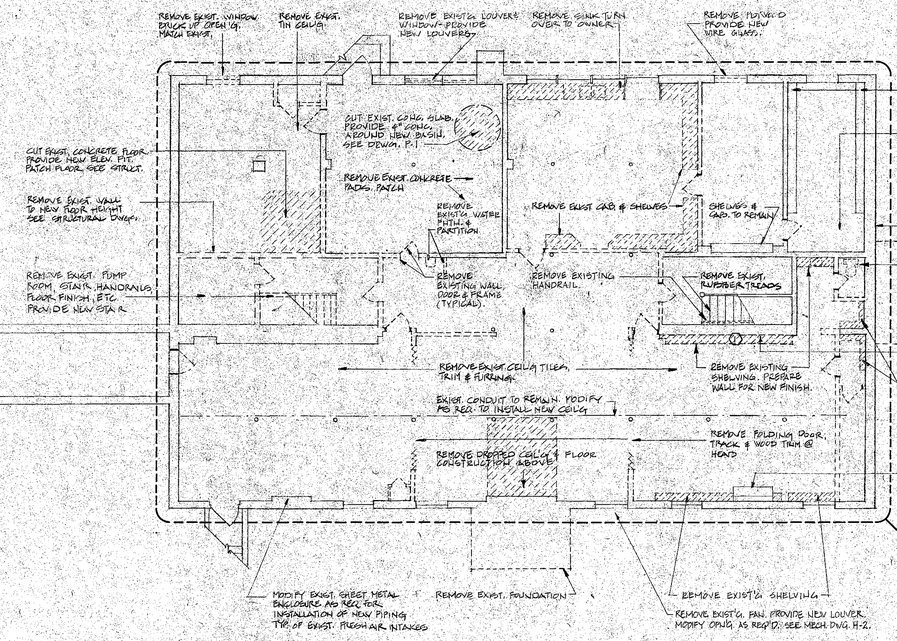
Remove existing door

Remove existing construction from structure below to structure above unless noted otherwise.

Remove existing structure as noted.



4 / A-1 FIXED ACCESS LADDER DETAIL
1½" 1'-0"



N

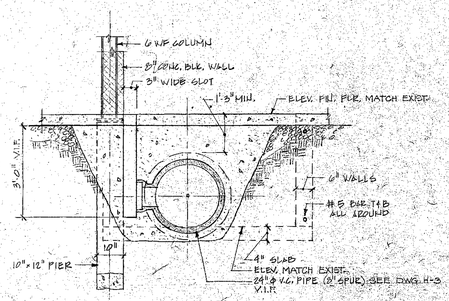
A / A1 BASEMENT DEMOLITION PLAN
1/8" = 1'-0"

A / A3 PHASE 1 CONSTRUCTION

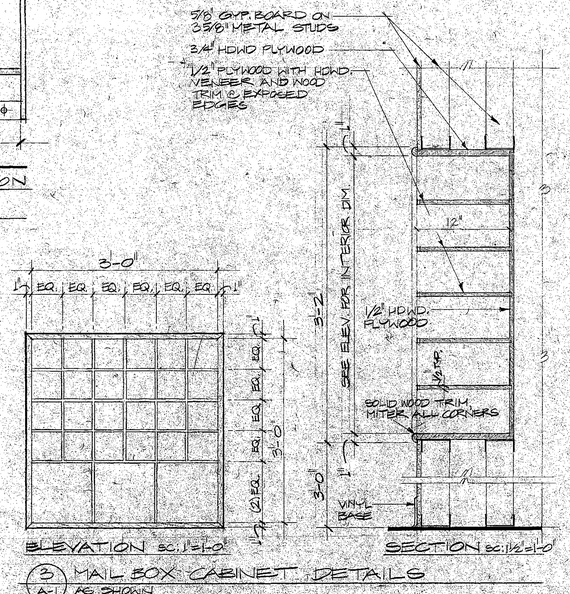
NOTE: CUT EXIST. CONCRETE FLOOR FOR INSTALLATION OF NEW PIPING - PATCH FLOOR. SEE DRWG. P-1 FOR PIPE LOCATIONS.

⬡ INDICATES EXIST. EQUIPMENT TO BE REMOVED & RELOCATED. SEE-1/A1 FLOOR PLANS FOR NEW LOCATIONS.
(1) CHALKBOARD RELOCATE TO ART 03
(2) SHELVING RELOCATE TO CLASSROOM 01

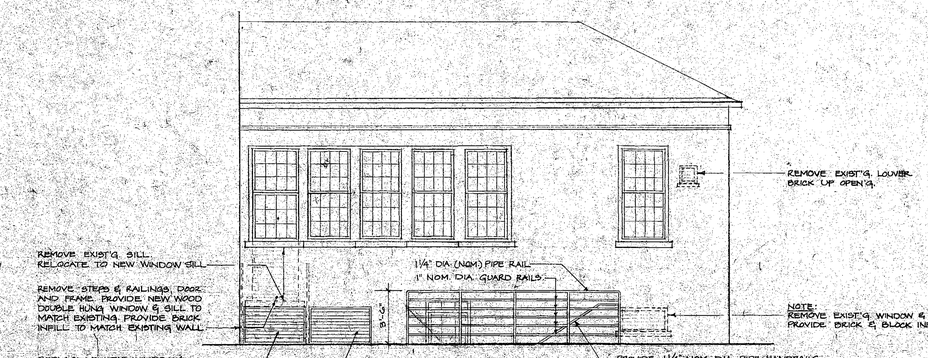
REMOVE ALL MISCELLANEOUS SUPPLIES ON THIS LEVEL



2 / A-1 UNDERSLAB DUCT
1/2" = 1'-0"



3 / A-1 MAIL BOX CABINET DETAILS
AS SHOWN



1 / A-1 PARTIAL EAST ELEVATION
1/4" = 1'-0"

STATE OF CONNECTICUT — JAMES CARLTON LAWLER III — NO. 7580 — REGISTERED ARCHITECT

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GIRARD & CO. ENGINEERS
40 WETHERSFIELD AVENUE HARTFORD, CT. 06114 (860) 524-1684

CONSULTANTS:
MECHANICAL & ELECTRICAL:
STRUCTURAL:

BASEMENT DEMOLITION PLAN

SCALE AS NOTED
DATE 2-1-05
DRAWN BY JS
REVISED

A1

BURNHAM SCHOOL

NOTES & KEY

Remove existing door & frame.

Remove existing door.

Remove existing construction from structure below to structure above unless noted otherwise.

Remove existing structure as noted.

EXCAVATE FOR WATER PROOFING & FOOTING DRAIN INSTALLATION. WATERPROOF FOUNDATION FROM BOTTOM OF FOOTING TO GRADE. PROVIDE FOOTING DRAIN. THIS WORK TO BE COMPLETED DURING SUMMER RECESS.

INDICATES EXIST. EQUIPMENT TO BE REMOVED & RELOCATED. SEE 1/A1 SCALE PLANS FOR NEW LOCATIONS.

REMOVE EXIST MEETING RAIL LOCK ON ALL WINDOWS. PROVIDE NEW AS SHOWN IN DET. 3-A2.

PHASE 1 CONSTRUCTION

PHASE 3

PHASE 2

REMOVE EXIST. DOOR & FRAME.

REMOVE ALL EXIST. GLAZING & REPLACE WITH LAMINATED SAFETY GLASS

MODIFY EXIST. STAIR, PROVIDE NEW STAIR.

REMOVE VERTICAL MULLION PROVIDE NEW SILL & HORIZONTAL MULLION. MATCH EXIST. ADJACENT

REMOVE EXIST. DOOR.

REMOVE EXIST. DOOR AND FRAME. CUT EXIST. WALL FOR NEW DOOR AND FRAME.

REMOVE EXIST. PARTITION.

REMOVE EXIST. CLG. TILE. PREPARE SURFACE FOR NEW FINISH.

REMOVE EXIST. BASE ENTIRE ROOM

REMOVE EXIST. WINYL BASE.

REMOVE EXIST. DOOR, FRAME, VISION PANELS & DISPLAY CASE

REMOVE EXIST. SHELVING & CLOSET TURN OVER TO OWNER

REMOVE EXIST. HANDRAILS

REMOVE EXIST. DOOR & FRAME

REMOVE EXIST. BASE ENTIRE ROOM

REMOVE EXISTING CEILING FINISH.

REMOVE EXISTING CABINETS, SHELVES & COUNTER. TURN OVER TO OWNER.

REMOVE EXISTING FLOOR FINISH. PREPARE FLOOR FOR NEW FINISH.

PATCH FLOOR.

CANOPY ABOVE TO REMAIN

CUT AND PATCH FLOOR FOR NEW DUCT. SEE DWG. H3.

REMOVE FIXTURE & FLOOR FINISH.

RELOCATE EXIST. FAN LEADER. CUT & PATCH FLOOR FOR PIPING. SEE DWG. P3.

CUT EXIST. MASONRY WALL. PROVIDE NEW WINDOW. SEE 1/A5

CUT EXIST. MASONRY WALL. PROVIDE NEW AIR CONDITIONER. SEE DWG. H-5

CUT EXIST. FLOOR FOR INSTALLATION OF NEW DUCT. SEE 2/A1 & DWG. H-5.

REMOVE EXIST. GRILLE & DOOR. REMOVE STONE SILL & REUSE AT WINDOW SILL. SEE ELEV. 1/A1

REMOVE EXIST. RAIL. PROVIDE NEW. SEE ELEV. 1/A1

FABRICATE AS REQUIRED TO INSTALL NEW PIPING FOR EXT. TANK - SEE DWG. H-1

REMOVE EXIST. LOUVRE - BRICK UP OPENING - MATCH EXIST.

REMOVE EXISTING PLUMBING FIXTURES & TOILET PARTITIONS.

REMOVE EXISTING FLOOR & INSTALL NEW STRUCTURE & ELEVATOR. SEE DWGS A9 & S1.

REMOVE EXISTING STAIRS, LANDING & HANDRAILS. INSTALL NEW STAIR. SEE DWG. A9.

REMOVE DOORS & FRAMES

CUT EXIST. CLG. & STRUCTURE FOR NEW ACCESS DOOR. REMOVE EXIST. MATTER CEILING. PROVIDE NEW DIFF. CEILING.

REMOVE EXIST. SHELVES, CLOSET DOOR TURN OVER TO OWNER.

REMOVE EXIST. SHELVES MODIFY & RELOCATE TO CLASSROOM 01. SEE DETAIL 2-3

REMOVE EXIST. PANELS

REMOVE EXISTING CARPETING PREPARE FLOOR FOR NEW FINISH.

REMOVE EXISTING POSTS PATCH WALL

6'-0" CLEAR TO TEMPORARY PARTITION

REMOVE EXIST. WATER FOUNTAINS. PATCH WALLS

CUT SUPPORT FOR RADIATOR. REMOVE CONNECTOR FOR GRILL. SEE DETAIL 3/A1

REMOVE EXISTING CARPETING PREPARE FLOOR FOR NEW FINISH.

REMOVE FINISH FLOOR IN AREA OF CERAMIC TILE INSTALLATION.

PROVIDE TEMPORARY GYPSUM BOARD PARTITION, 2 HR. U.L. RATED IN CORRIDOR.

REMOVE EXIST. HANDRAILS ON WALL PROVIDE NEW.

REMOVE EXISTING TOILET PARTITIONS.

REMOVE EXIST. LOUVER BRICK UP OPENING - MATCH EXIST.

REMOVE CHAIR RAIL. PATCH

REMOVE EXISTING POSTS PATCH WALL.

REMOVE EXIST. STAIR & FLOOR CONSTRUCTION

REMOVE EXIST. STEPS. PROVIDE NEW STEPS, SEE DWG. A9.

REMOVE EXIST. FAN - PROVIDE NEW LOUVER - MODIFY OPENING AS REQ'D - SEE MECHANICAL DWG. H-2.

REMOVE STONE CAPS, LANDING, & STAIR TREADS & SAVE FOR RECONSTRUCTION. REMOVE REMAINING CONCRETE STRUCTURE.

A/A4

A/A5

A/A2 FIRST FLOOR DEMOLITION PLAN.
1/8" = 1'-0".

N

REMOVE MEETING RAIL LOCK

PROVIDE CAM HANDLE LOCK AND RECESS STRIKE EACH SIDE OF WINDOW

3/A2 WINDOW LOCK LOWERING DETAILS
N.T.S.

1¼" DIA. (NOM.) PIPE RAIL

1" NOM. DIA. GUARD RAILS EQUALLY SPACED

1X4 BULLNOSE MAPLE TRIM

CUT & MODIFY EXIST. STAIRS. PROVIDE NEW WOOD STRINGER & METAL RAILS

WOOD STRINGER ROUTED TO RECEIVE TREADS & RISERS.

1" MAPLE TREADS & RISERS, PROVIDE CENTER CARRIAGE & BLOCKING BET.

¾" MAPLE PLYWOOD

8'-6"

2'-6"

8'-0" V.I.F.

2/A2 STAGE STAIR DETAIL
¾" = 1'-0"

EXHAUST FAN BY MECHANICAL CONTRACTOR

12" MTL. CURB & CANT BY MECHANICAL CONTRACTOR

BASE FLASHING

BUILT-UP ROOFING

PROVIDE BLKG. TO ACHIEVE REQ'D. HT.

15/16" FIBERGLASS INSULATION

EXIST'G. STRUCTURE (SHADED)

MODIFY WOOD FRAMING FOR NEW MECH. UNIT

1'-0"

1/A-2 EXHAUST FAN CURB DETAIL
3" = 1'-0"

SEE DWG. H-4 FOR SIZE AND LOCATION.

REMOVE CHIMNEY FROM TO HEIGHT 2'-9" BELOW LEVEL OF FLAT ROOF ABS. REBUILD TO EXIST. HT. PROVIDE BRICK FLUE TILE & CONC. CAP TO MATCH EXIST.

EXIST. HATCH TO RELOC.

NEW 2'-6" SCUTTLE DOOR FROM JANITOR'S CLOSET. SEE 3/A-6

CUT OPENINGS IN ROOF SHEATHING BEHIND LOUVER.

PROVIDE NEW LOUVER CENTER IN PEDIMENT

CUT OPENINGS IN ROOF SHEATHING BEHIND LOUVER.

PROVIDE NEW LOUVER CENTER IN PEDIMENT.

PROVIDE ¾" PLYWOOD ON 2"x12" 24" O.C. FOR WALKWAY ON TOP OF 12" INSULATION.

PROVIDE 12" BATT INSULATION OVER TOP OF EXIST. ATTIC FLOOR. CARRY INSULATION OVER EXIST. DUCTWORK.

B/A2 ATTIC PLAN
1/16" = 1'-0"

PHASE 2

STATE OF CONNECTICUT
REGISTERED ARCHITECT
JAMES TAYLOR
NO. 7990

C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
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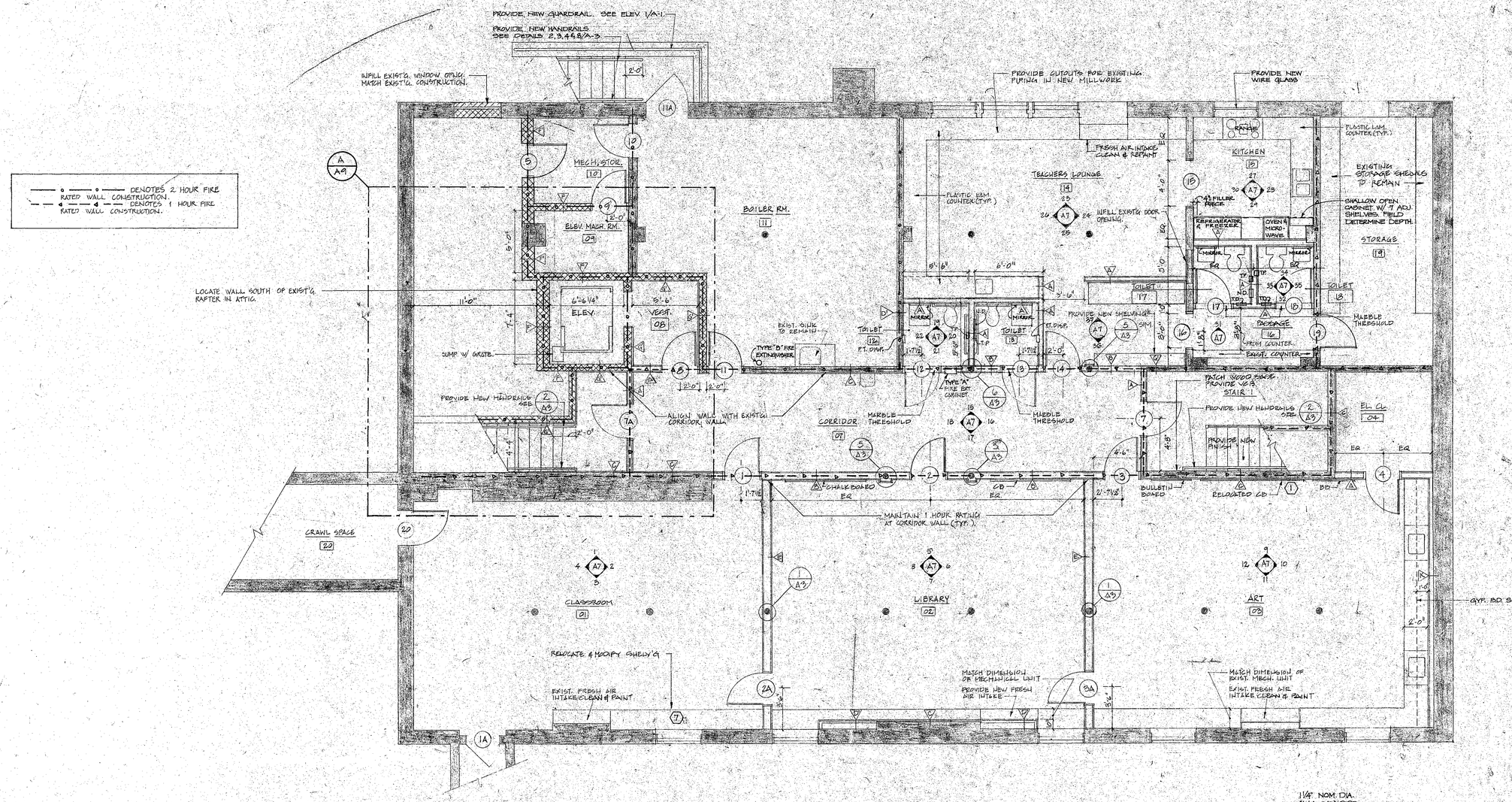
CONSULTANTS:
MECHANICAL & ELECTRICAL: BURTON & VANHOUTEN ENGINEERS INC. 10 NORTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 521-2300
STRUCTURAL: GIRARD & CO. ENGINEERS 49 WETHERSFIELD AVENUE HARTFORD, CT. 06114 (203) 296-2366

FIRST FLOOR DEMOLITION PLAN & ATTIC PLAN
SCALE AS NOTED
DRAWN BY S.S.
DATE 2/1/83
REVISED

A2

BURNHAM SCHOOL



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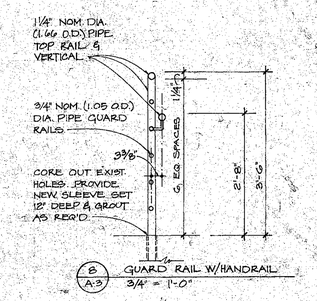
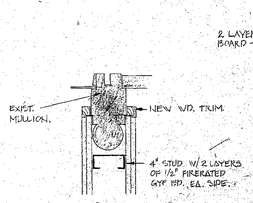
A / A3 BASEMENT PLAN - PHASE 1
1/4" = 1'-0"

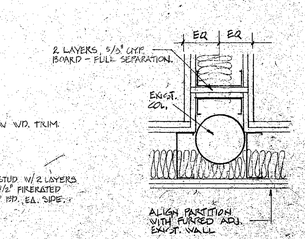
NOTE: EXISTING WALLS SHOWN SHADED.



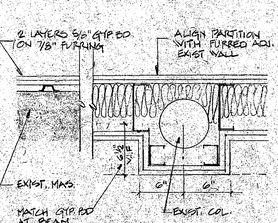
8 / A-3 GUARD RAIL W/HANDRAIL
3/4" = 1'-0"



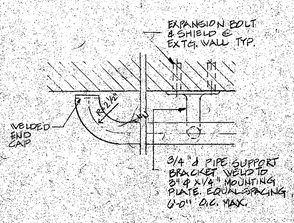
7 / A9 DETAIL
1½" = 1'-0"



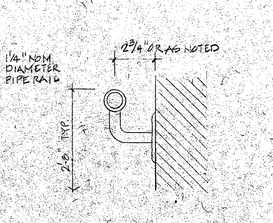
1/8 / A3 DETAIL
1½" = 1'-0"



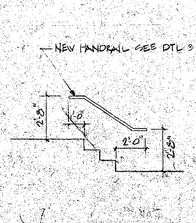
5 / A3 DETAIL
1½" = 1'-0"



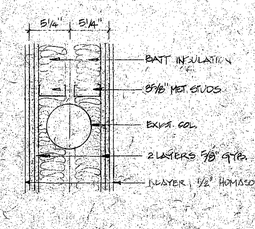
4 / A9 HANDRAIL DETAIL
3" = 1'-0"



9 / A9 HANDRAIL DETAIL
3" = 1'-0"



2 / A9 ELEV
¼" = 1'-0"



1 / A9 PARTITION DETAIL
1½" = 1'-0"

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GIRARD & CO. ENGINEERS
40 WESTBOURNE AVENUE ELLSTROM, CT. 06112 (203) 644-1164

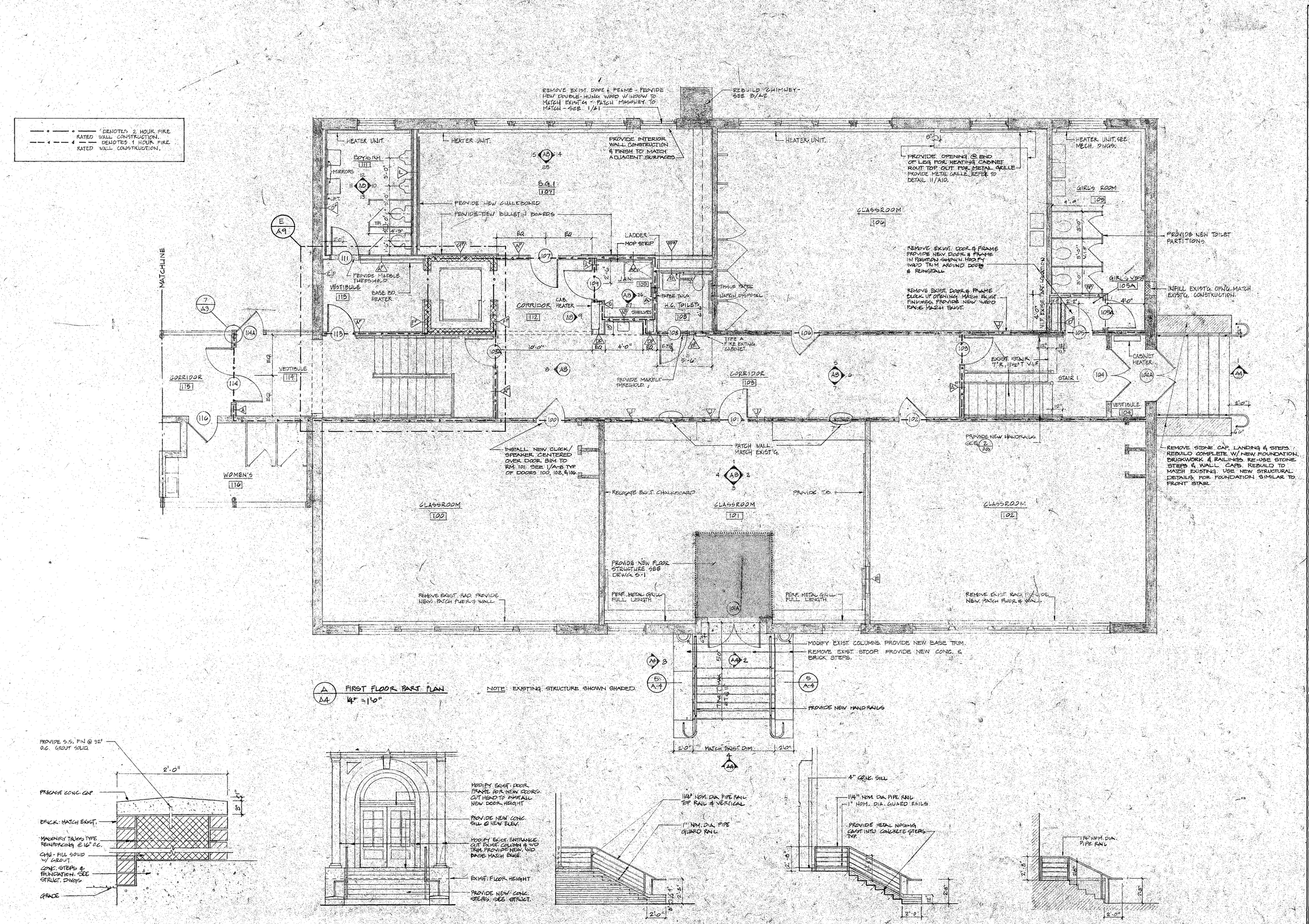
CONSULTANTS:
MECHANICAL & ELECTRICAL:
STRUCTURAL:

BASEMENT PLAN & DETAILS

SCALE AS NOTED
DATE 2-1-89
DRAWN BY JAS
REVISED

A3

BURNHAM SCHOOL



A/A4 FIRST FLOOR PART. PLAN
4" = 1'0"

NOTE: EXISTING STRUCTURE SHOWN SHADED.

E/A4 BRICK WALL DETAIL
1½" = 1'0"

4/A4 PART ELEVATION
1/4" = 1'0"

3/A4 PART ELEVATION
1/4" = 1'0"

2/A4 PART ELEVATION
1/4" = 1'0"

1/A4 PART ELEVATION
1/4" = 1'0"

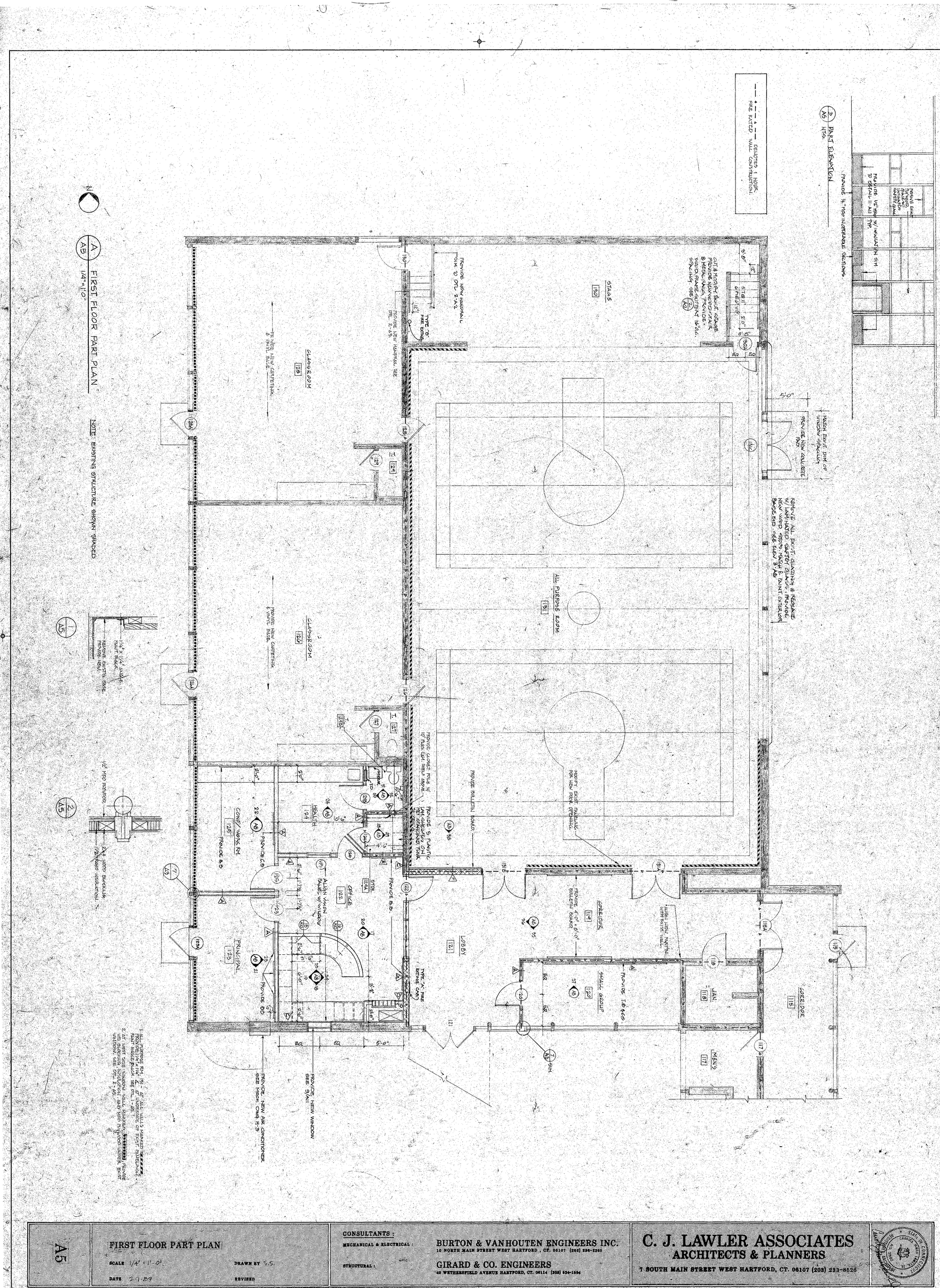
C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
7 SOUTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 233-8526

CONSULTANTS:
MECHANICAL & ELECTRICAL: BURTON & VANHOUTEN ENGINEERS INC. 10 NORTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 236-2266
STRUCTURAL: GIRARD & CO. ENGINEERS 40 WHEELSBRIDGE AVENUE EASTFORD, CT. 06114 (860) 456-4544

FIRST FLOOR PART PLAN
SCALE 1/4" = 1'0"
DRAWN BY S.S.C.
DATE 2-1-89
REVISED

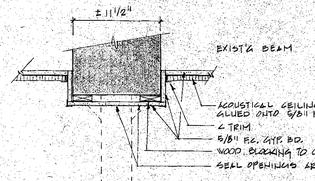
A4

BURNHAM SCHOOL

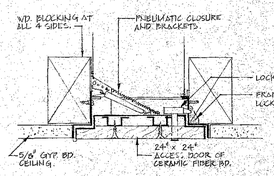


A5	FIRST FLOOR PART PLAN SCALE 1/4" = 1'-0" DRAWN BY S.S. DATE 2-1-89 REVISED	CONSULTANTS : MECHANICAL & ELECTRICAL : BURTON & VANHOUTEN ENGINEERS INC. 10 NORTH MAIN STREET WEST HARTFORD , CT. 06107 (203) 236-2265 STRUCTURAL : GIRARD & CO. ENGINEERS 48 WETHERSFIELD AVENUE HARTFORD, CT. 06114 (203) 524-1694	C. J. LAWLER ASSOCIATES ARCHITECTS & PLANNERS 7 SOUTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 233-8626

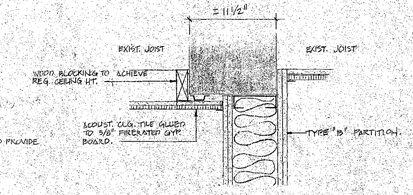
BURNHAM SCHOOL BRIDGEWATER



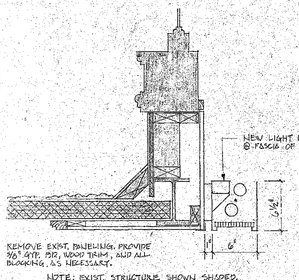
1 / A6 CEILING DETAIL
1½" = 1'-0"



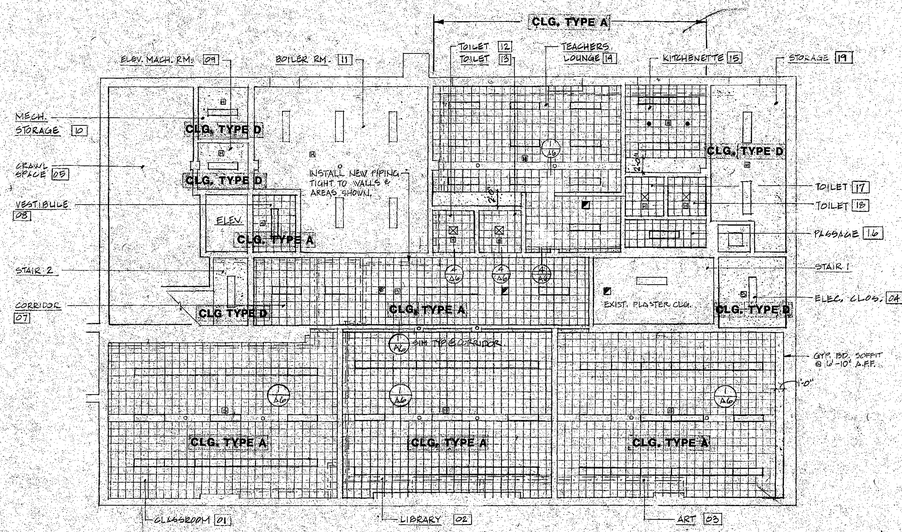
2 / A6 ACCESS DOOR DETAIL
N.T.S.



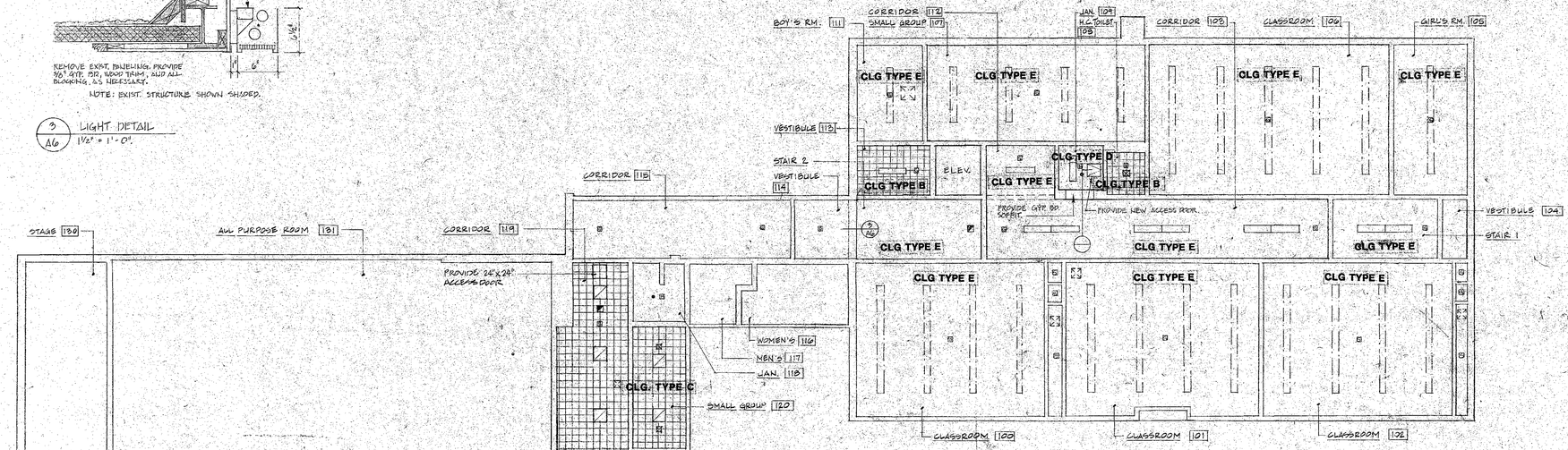
4 / A6 CEILING DETAIL
1½" = 1'-0"



3 / A6 LIGHT DETAIL
1½" = 1'-0"



A / A6 BASEMENT REFLECTED CEILING PLAN
1/8" = 1'-0"



B / A6 FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

KEY

- EXPOSED PIPING
- SURFACE MNTD. LIGHT FIXTURE
- SUSPENDED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- EMERGENCY LIGHT
- SMOKE DETECTOR
- HEAT DETECTOR
- ACOUSTIC TILE
- GYPSUM BOARD
- ACCESS HATCH
- SURFACE MNTD. HEATER FAN
- DIFFUSER

CEILING TYPES

- **A** 12" x 12" ACOUSTIC TILE GLUED ONTO NEW 5/8" FIRE-CODE GYP. BD. ATTACHED TO EXIST. STRUCTURE.
- **B** 12" x 12" SUSPENDED ACOUSTIC TILE
- **C** 12" x 12" ACOUSTIC TILE GLUED ONTO EXISTING GYP. BD.
- **D** NEW 5/8" FIRE-CODE GYP. BD.
- **E** PATCH EXIST. PLASTER CEILING

C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
7 SOUTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 233-6526

CONSULTANTS:
MECHANICAL & ELECTRICAL: BURTON & VANHOUTEN ENGINEERS INC. 10 NORTH MAIN STREET WEST HARTFORD · CT. 06107 (203) 236-2265
STRUCTURAL: GIRARD & CO. ENGINEERS 40 WETHERSFIELD AVENUE HARTFORD, CT. 06114 (860) 296-1504

REFLECTED CEILING PLANS & DETAILS
SCALE AS NOTED
DRAWN BY S.S.
REVISED
DATE 2-1-89

A6

BURNHAM SCHOOL
BRIDGEWATER

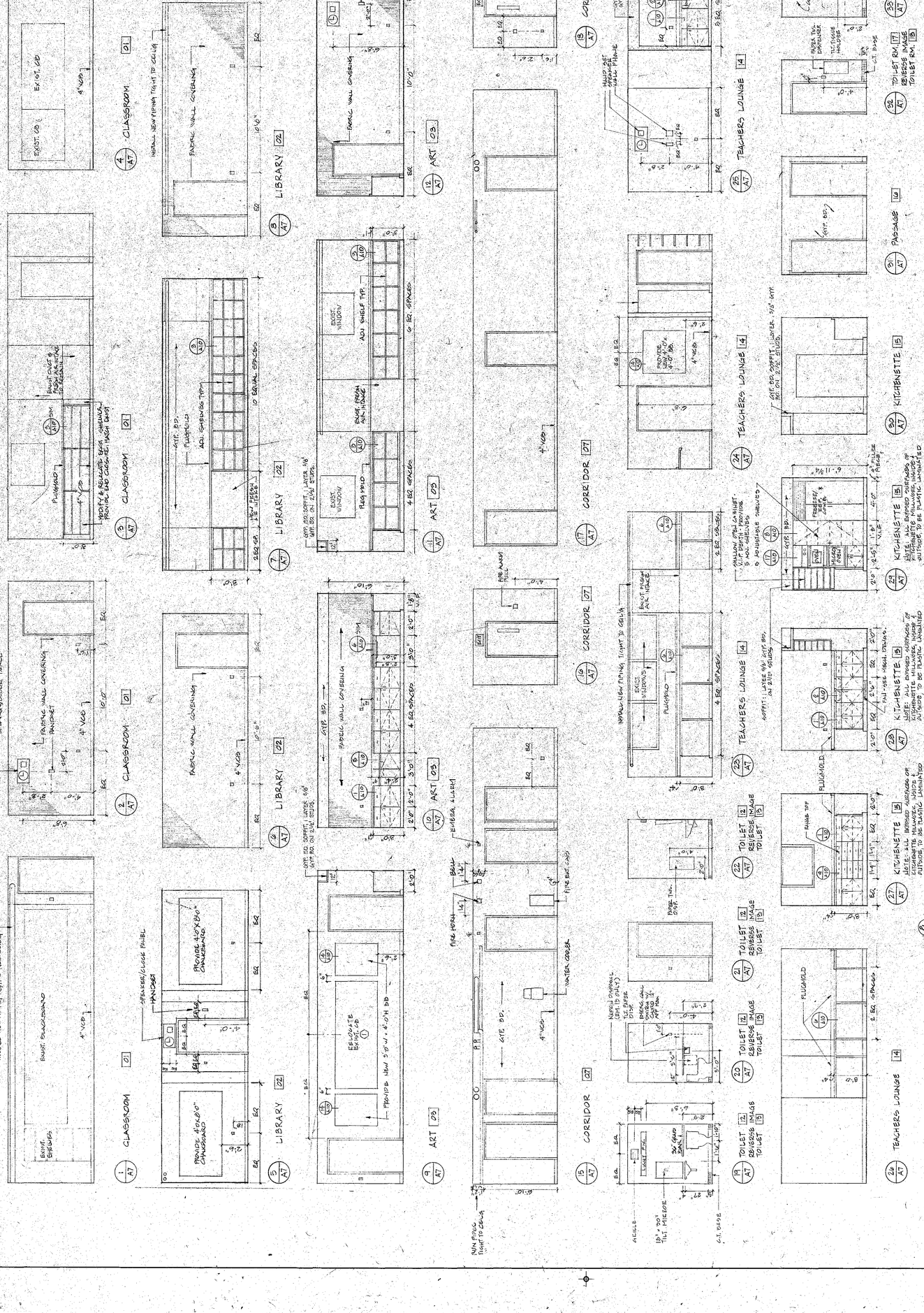
BURNHAM SCHOOL BRIDGEWATER

A7	INTERIOR ELEVATIONS	CONSULTANTS:
	SCALE 1/4" = 1'-0" DRAWN BY S.S.	STRUCTURAL:
	DATE 2.1.23 REVISED	MECHANICAL & ELECTRICAL:

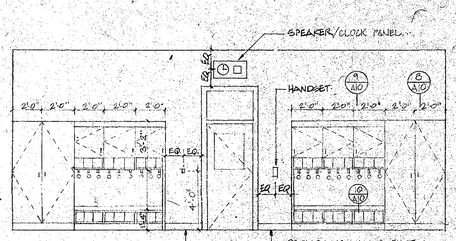
C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
7 SOUTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 233-8626

BURTON & VAN HOUTEN ENGINEERS INC.
15 NORTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 236-2366

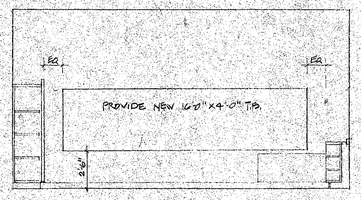
GIRARD & CO. ENGINEERS
40 WETHERSFIELD AVENUE HARTFORD, CT. 06114 (203) 826-1604


1 A7 CLASSROOM 01
2 A7 CLASSROOM 01
3 A7 CLASSROOM 01
4 A7 CLASSROOM 01
5 A7 LIBRARY 02
6 A7 LIBRARY 02
7 A7 LIBRARY 02
8 A7 LIBRARY 02
9 A7 ART 03
10 A7 ART 03
11 A7 ART 03
12 A7 ART 03
13 A7 CORRIDOR 07
14 A7 TEACHERS LOUNGE 14
15 A7 CORRIDOR 07
16 A7 PASSAGE 16
17 A7 CORRIDOR 07
18 A7 TOILET RM. 17
19 A7 TOILET RM. 17
20 A7 TOILET RM. 17
21 A7 TOILET RM. 17
22 A7 TOILET RM. 17
23 A7 TEACHERS LOUNGE 14
24 A7 TEACHERS LOUNGE 14
25 A7 TEACHERS LOUNGE 14
26 A7 TEACHERS LOUNGE 14
27 A7 KITCHENETTE 15
28 A7 KITCHENETTE 15
29 A7 KITCHENETTE 15
30 A7 KITCHENETTE 15
31 A7 KITCHENETTE 15
32 A7 KITCHENETTE 15
33 A7 KITCHENETTE 15
34 A7 KITCHENETTE 15
35 A7 KITCHENETTE 15
SPEAKER/CLOCK PANEL
HANDSET
FABRIC WALL COVERING
EXIST. BULLETIN BOARD
PROVIDE 4'0"x8'0" CHALKBOARD
EXIST. CB
EXIST. OD
4" VCP
PROVIDE NEW 5'0"W. x 4'0"H BB
EXIST. WINDOW
ADJ SHELF TYP.
PLUGMOLD
ADJ. SHELVING TYP.
6 EQ. SPACES
10 EQUAL SPACES
4 EQ. SPACES
2 EQ. SPACES
5 EQ. SPACES
8 EQ. SPACES
EXIT BD.
FIRE HORN
FIRE EXT. CAB.
WATER COOLER
NEW PANIC LIGHT TO CBI/A
NEW FIRE HORN LIGHT TO CBI/A
NEW PANIC LIGHT TO NEW CBI/A
EXIST. WINDOWS
EXIST. PLUGMOLD
ADJ. SHELVING
PAPER TWL DISPENSER
SOAP DISP.
FAUCET
SINK
MIRROR
GFCI
LIGHT SW.
RECESSED MEDICINE CABINET
ACCESSIBLE FAUCETS & ADJUSTABLE CABINETS
PROVIDE PLASTIC LAMINATE FINISH ON ALL EXPOSED SURFACES OF KITCHENETTE MILLWORK, INSIDE & OUTSIDE, TO BE PLASTIC LAMINATED
* PROVIDE PLASTIC LAMINATE FINISH ON ALL EXPOSED SURFACES OF KITCHENETTE MILLWORK, INSIDE & OUTSIDE, TO BE PLASTIC LAMINATED
PROVIDE 2'0"x3'0" FREEZE/REFRIG.
18" DEEP UNIT
24" DEEP UNIT
5 NOZ. SHOWER HD.
LIGHT SWITCH
ACCESS
18" x 30" TILT MIRROR
SOAP DISP. SHELF
PAPER TWL DISP.
NAPKIN DISPENSER
SHELF
RUBBER TOP
PLUGMOLD
ADJ. SHELF
EXIST. BB
EXIST. CB
EXIST. OD
4" VCP
EXIST. RADIATOR
EXIST. BOOKSHELVES
EXIST. WINDOW
EXIST. DOOR
EXIST. BULLETIN BOARD
EXIST. CHALKBOARD
EXIST. SINK
EXIST. CABINETS
EXIST. PLUGMOLD
EXIST. SHELVING

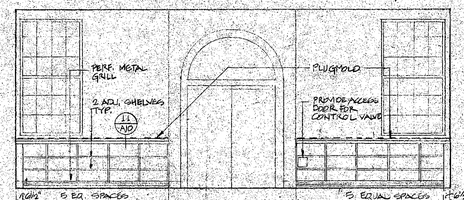
KEY
B.B. = BULLETIN BOARD
C.B. = CHALK BOARD
T.B. = TACK BOARD



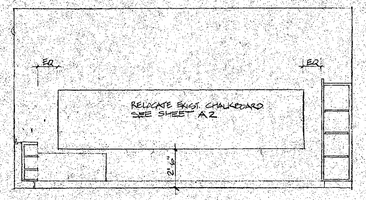
1/AB CLASSROOM 101



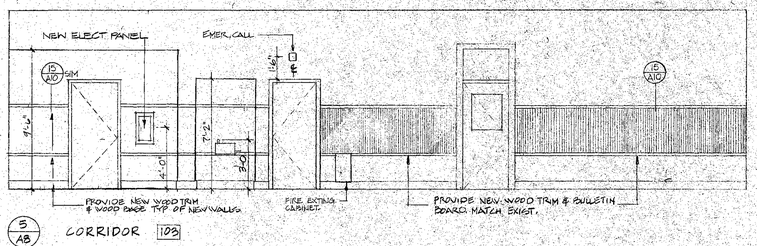
2/AB CLASSROOM 101



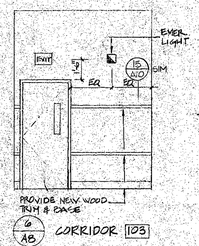
3/AB CLASSROOM 101



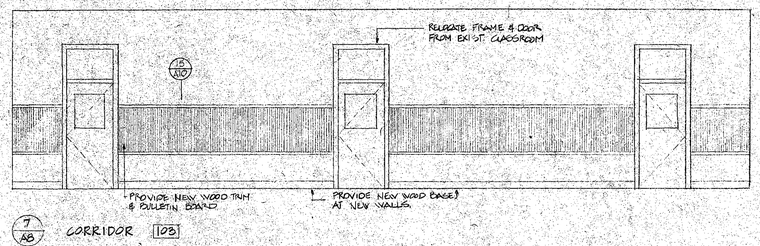
4/AB CLASSROOM 101



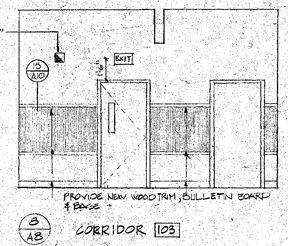
5/AB CORRIDOR 103



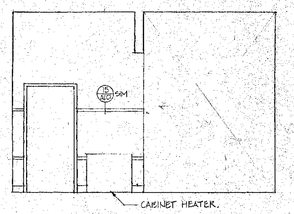
6/AB CORRIDOR 103



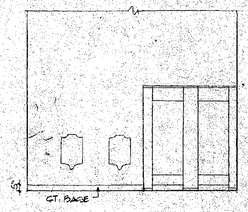
7/AB CORRIDOR 103



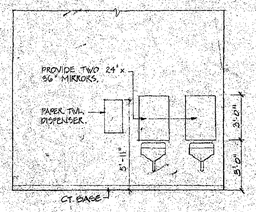
8/AB CORRIDOR 103



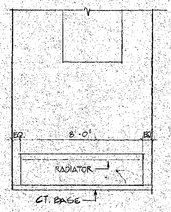
9/AB CORRIDOR 112



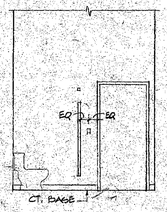
10/AB BOY'S ROOM 111



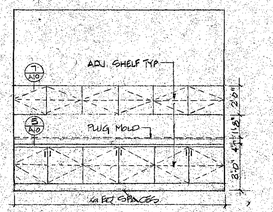
11/AB BOY'S ROOM 111



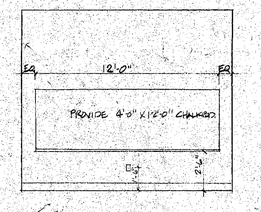
12/AB BOY'S ROOM 111



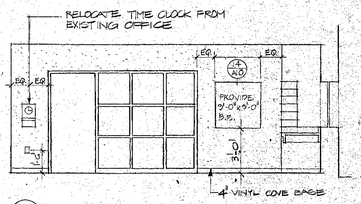
13/AB BOY'S ROOM 111



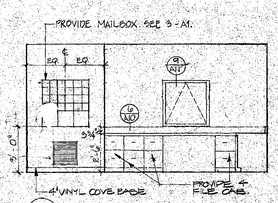
14/AB S.G.I. 107



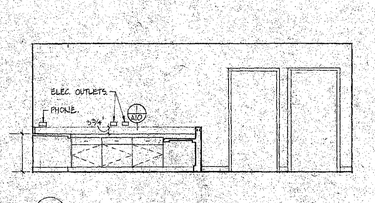
15/AB S.G.I. 107



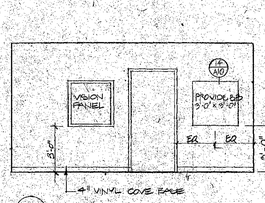
17/AB OFFICE 122



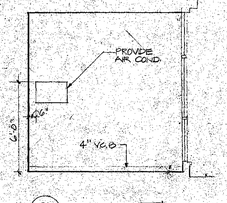
18/AB OFFICE 122



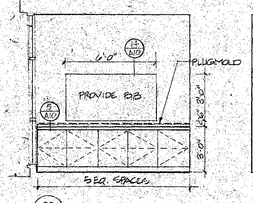
19/AB OFFICE 122



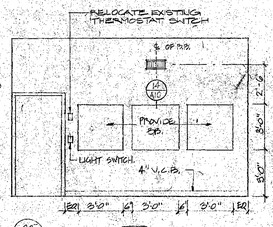
20/AB OFFICE 122



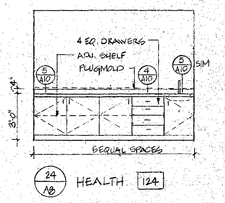
21/AB PRINCIPAL 123



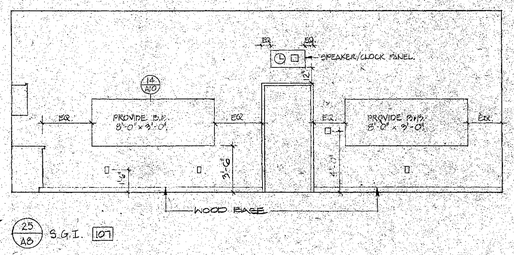
22/AB CONF./WORK RM 125



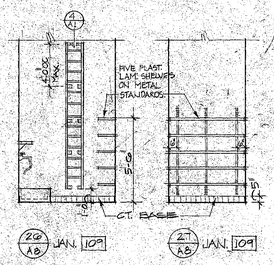
23/AB PRINCIPAL 123



24/AB HEALTH 124

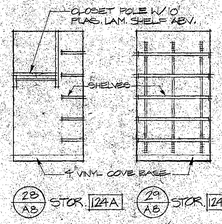


25/AB S.G.I. 107



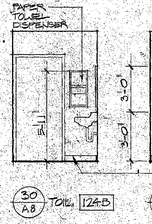
26/AB JAN. 109

27/AB JAN. 109

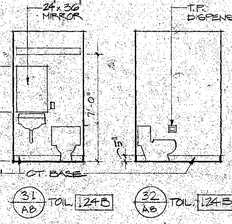


28/AB STOR. 124A

29/AB STOR. 124A

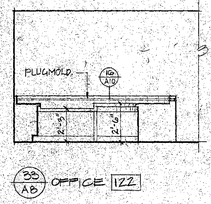


30/AB TOIL. 124B

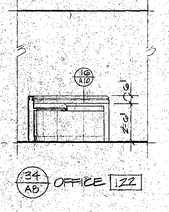


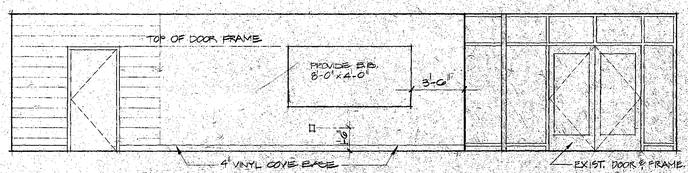
31/AB TOIL. 124B

32/AB TOIL. 124B

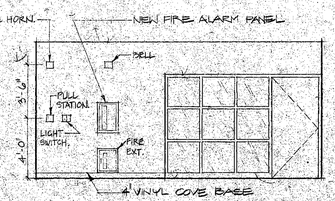


33/AB OFFICE 122

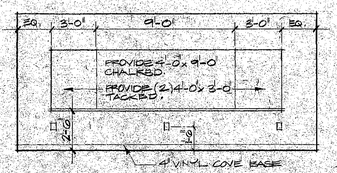

34/AB OFFICE 122



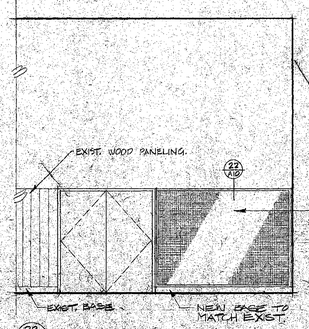
35/AB LOBBY 121 & CORRIDOR 119



36/AB LOBBY 121



37/AB SMALL GROUP 120



38/AB ALL PURPOSE ROOM 131

BURNHAM SCHOOL

BRIDGEWATER

C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
7 SOUTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 233-8628

CONSULTANTS:
MECHANICAL & ELECTRICAL: BURTON & VANHOUTEN ENGINEERS INC. 20 SOUTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 521-2288
STRUCTURAL: GIRARD & CO. ENGINEERS 48 WETHERSFIELD AVENUE HARTFORD, CT. 06114 (203) 296-2266

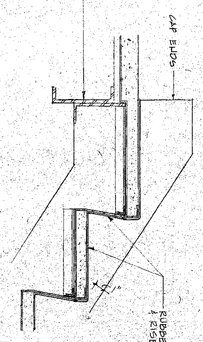
INTERIOR ELEVATIONS
SCALE 1/4" = 1'-0"
DATE 2/1/89
DRAWN BY SS
REVISED

A8

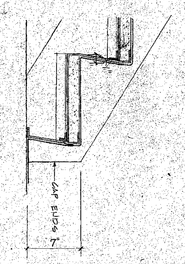
1 / A9 DETAIL 1½"=1'-0"



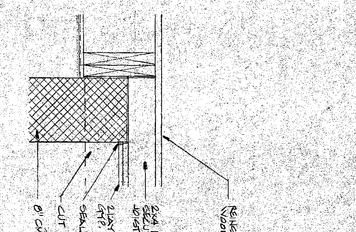
2 / A9 DETAIL 1½"=1'-0"



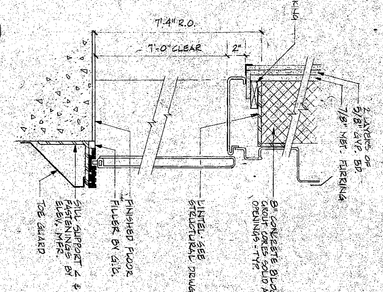
3 / A9 DETAIL 1½"=1'-0"



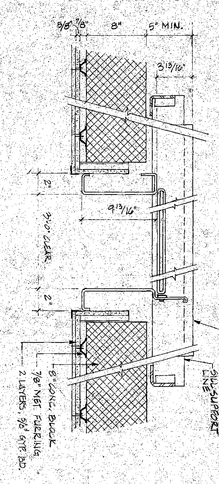
4 / A9 DETAIL 1½"=1'-0"



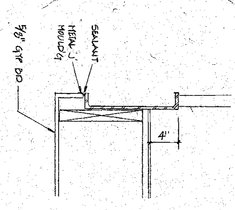
5 / A9 HEAD & SILL DETAIL



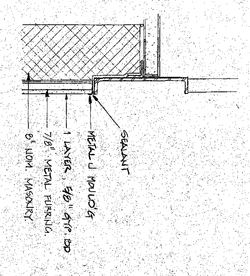
6 / A9 DOOR DETAIL



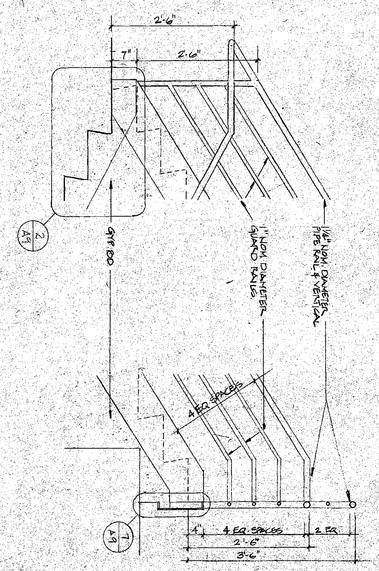
7 / A9 DETAIL 1½"=1'-0"



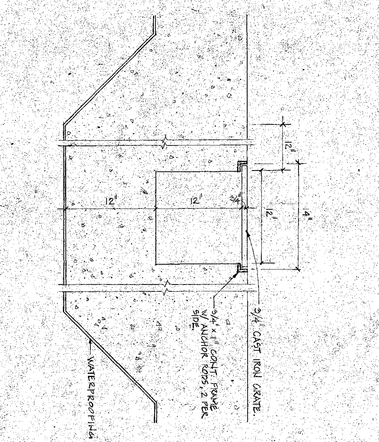
8 / A9 DETAIL 1½"=1'-0"



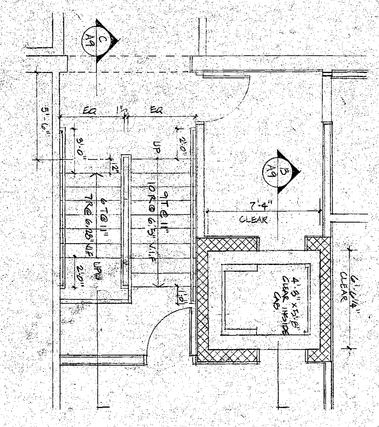
9 / A9 DETAIL 3/4"=1'-0"



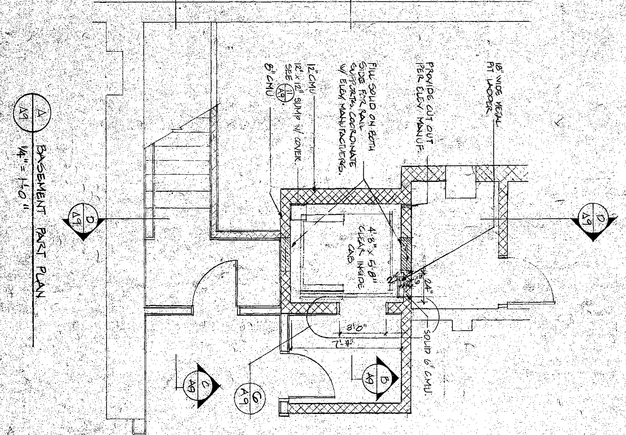
10 / A9 DETAIL 3/4"=1'-0"



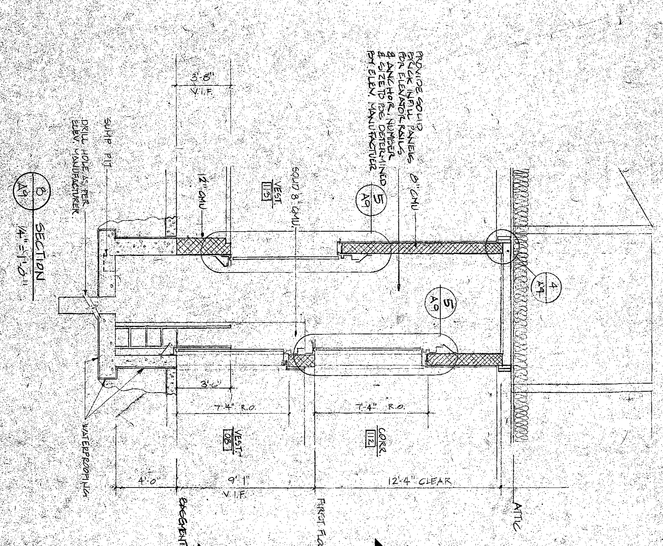
11 / A9 DETAIL 1½"=1'-0"



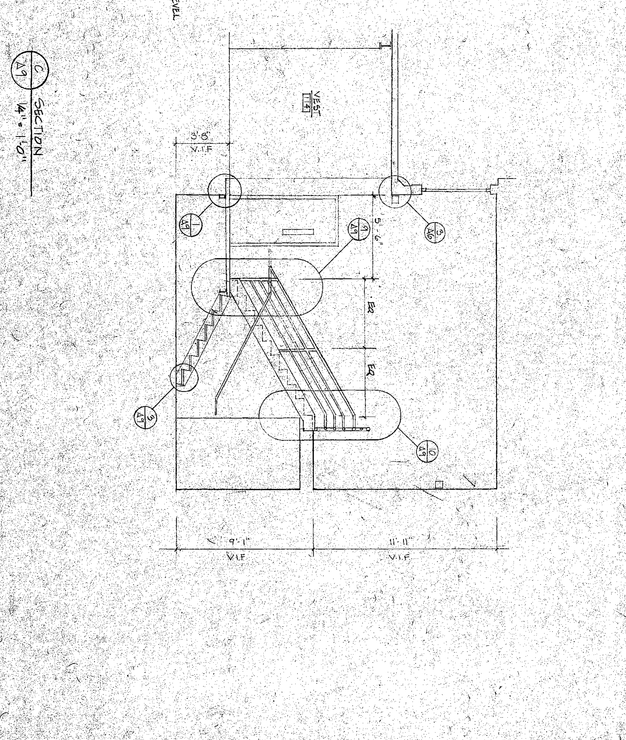
A / A9 BASEMENT PLAN 1/4"=1'-0"



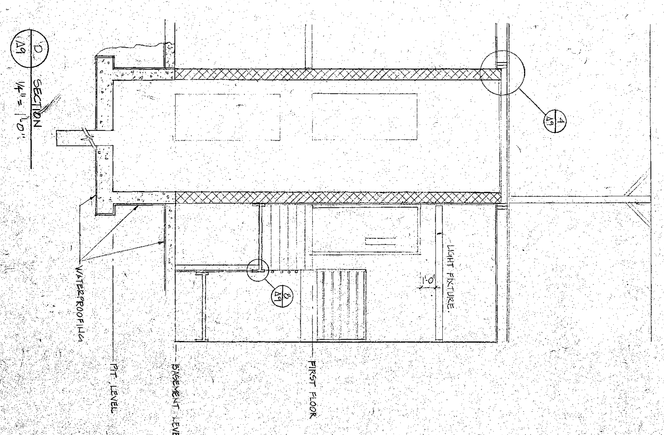
B / A9 SECTION 1/4"=1'-0"



C / A9 SECTION 1/4"=1'-0"



D / A9 SECTION 1/4"=1'-0"



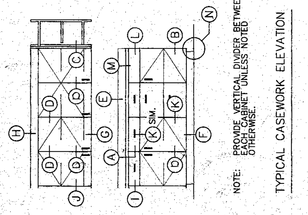
E / A9 FIRST FLOOR PLAN 1/4"=1'-0"

A9	ELEVATOR & STAIR DETAILS SCALE AS NOTED. DRAWN BY SS. DATE 2-1-89 REVISED	CONSULTANTS : MECHANICAL & ELECTRICAL : BURTON & VANHOUTEN ENGINEERS INC. 10 NORTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 586-2365 STRUCTURAL : GIRARD & CO. ENGINEERS 46 WETHERSFIELD AVENUE HARTFORD, CT. 06114 (203) 524-1584	C. J. LAWLER ASSOCIATES ARCHITECTS & PLANNERS 7 SOUTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 233-8526

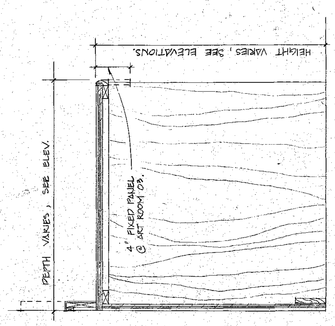
BURNHAM SCHOOL BRIDGEWATER

BURNHAM SCHOOL BRIDGEWATER

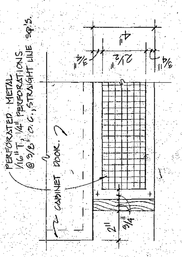
A10	MILLWORK DETAILS	CONSULTANTS:
	SCALE .75 NOTED DRAWN BY S.S.	MECHANICAL & ELECTRICAL: BURTON & VANHOUTEN ENGINEERS INC. 10 NORTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 236-2286
	DATE 2.1.89 REVISED	STRUCTURAL: GIRARD & CO. ENGINEERS 40 WETHERSFIELD AVENUE HARTFORD, CT. 06114 (203) 524-1564
		C. J. LAWLER ASSOCIATES ARCHITECTS & PLANNERS 7 SOUTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 232-8526

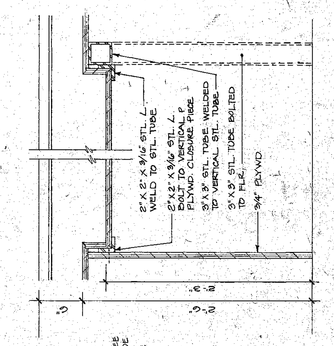


TYPICAL CASEWORK ELEVATION

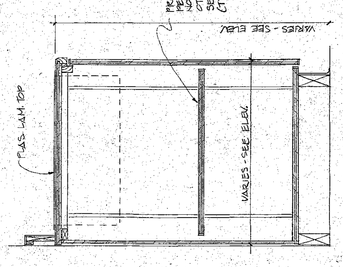


5 A10





18 A10 SECTION THRU SECRETARY'S DESK



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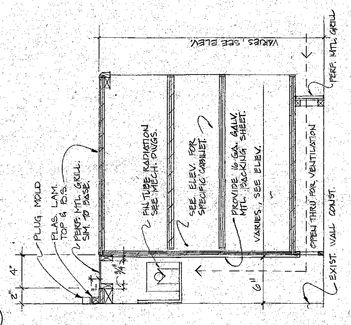
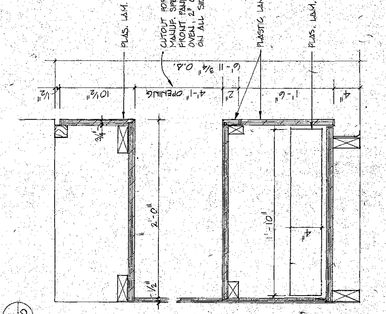
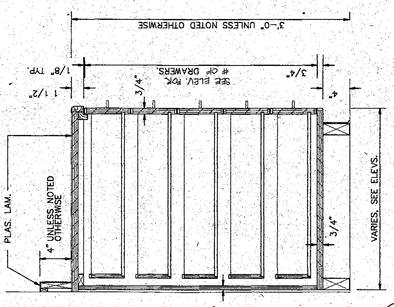


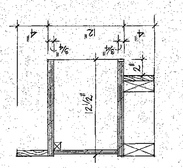
11 A10

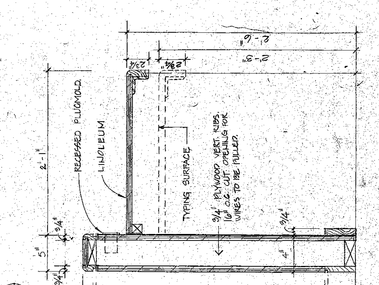


17 A10

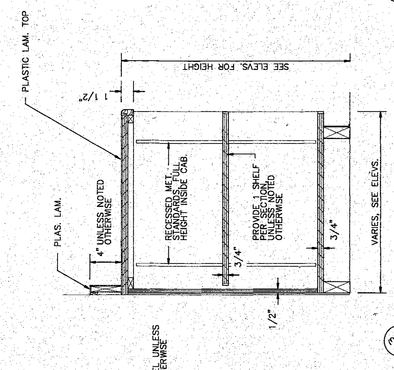


4 A10

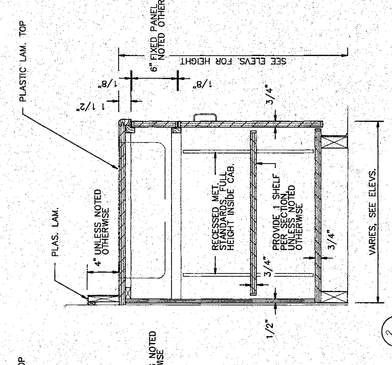




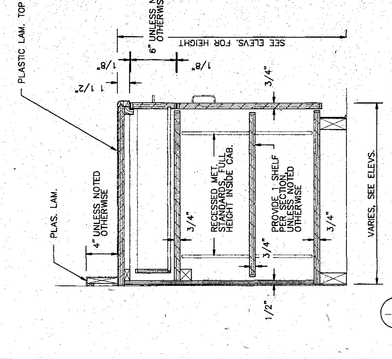
10 A10 16 A10



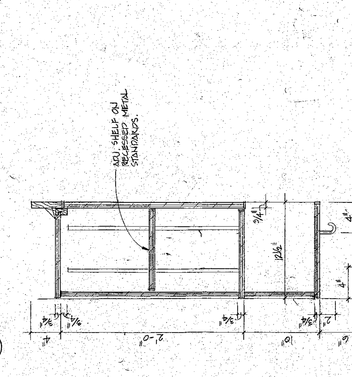
1 A10



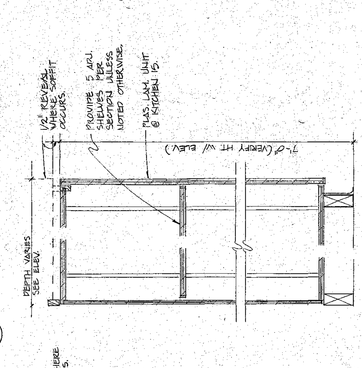
2 A10



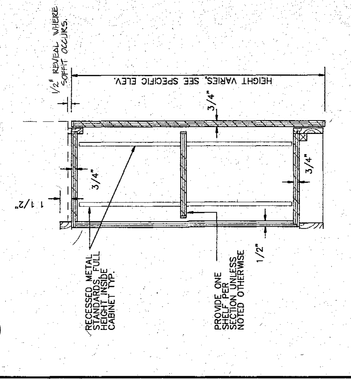
1 A10



3 A10



8 A10

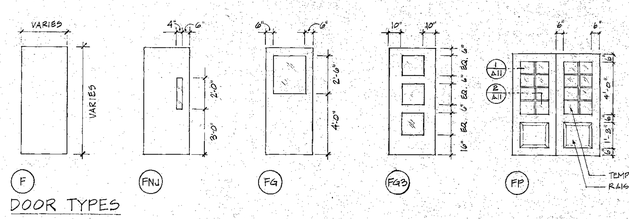


7 A10

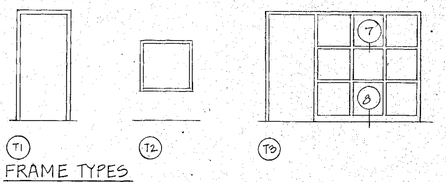
3 A10

2 A10

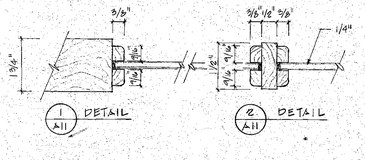
1

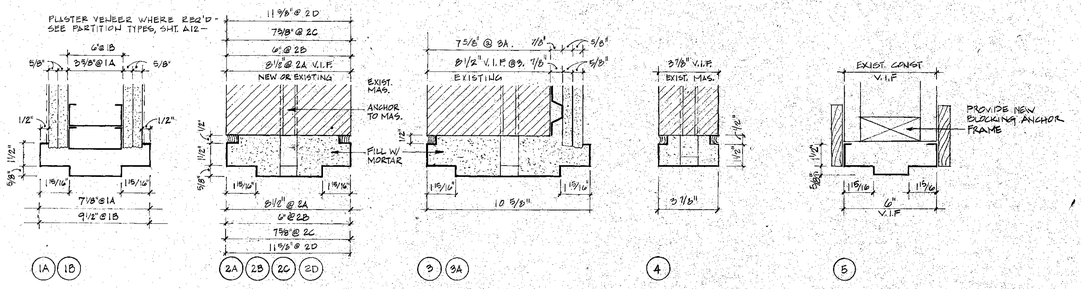


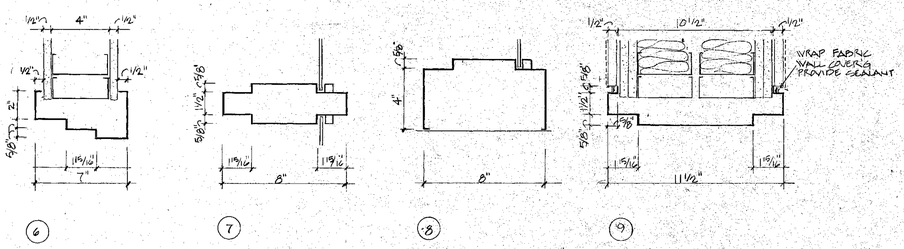
DOOR TYPES



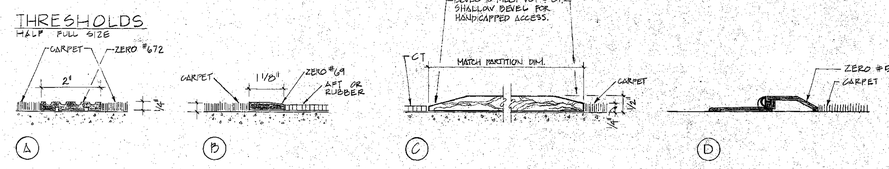
FRAME TYPES

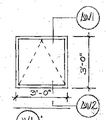


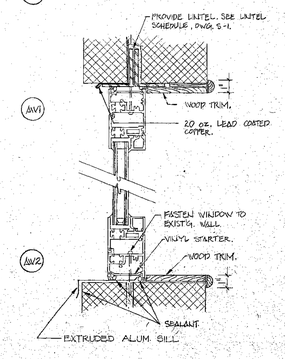


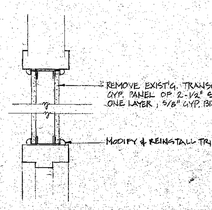


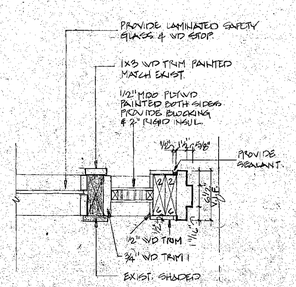
THRESHOLDS
HALF FULL SIZE











9 A11 WINDOW DETAIL - OFFICE 122
N.T.S.

10 A11 TRANSOM REPLACEMENT.

11 A11 DOOR 131C - DETAIL
1 1/2" = 1'-0"

DOOR SCHEDULE

DR. NO.	OPENING TO	DOOR WIDTH	DOOR HGTH.	DOOR MAT.	DOOR TCKNS.	DOOR TYPE	FRAME MAT.	FRAME TYPE	FRAME HEAD	FRAME JAMB	FRAME SILL	U.L. LABEL	HDWRE. SET	REMARKS
1	CLASSROOM 01	3'-0"	6'-8"	HM	1 3/4"	FG	HM	T1	1B	1B	A	C	#1	
1A	CLASSROOM 01	EXIST.												
2	LIBRARY 02	3'-0"	6'-8"	HM	1 3/4"	FG	HM	T1	1B	1B	A	C	#1	
3	ART 03	3'-0"	6'-8"	HM	1 3/4"	FG	HM	T1	1B	1B	A	C	#1	
4	ELECTRICAL CLOSET 04	8'-0"	6'-8"	HM	1 3/4"	F	HM	T1	1A	1A	—	B	#2	
5	CRAWL SPACE 05	2'-6"	2'-0"	HM	1 3/4"	F	HM	T1	2D	2D	2D	B	#7	
7	STAIR 1	3'-0"	6'-8"	HM	1 3/4"	FNJ	HM	T1	1A	1A	A	B	#3	
7A	STAIR 2	3'-0"	6'-8"	HM	1 3/4"	FNJ	HM	T1	1A	1A	A	B	#3	
8	VESTIBULE 08	3'-0"	6'-8"	HM	1 3/4"	FNJ	HM	T1	1A	1A	A	C	#4	
9	ELEV. MACH. RM. 09	3'-0"	6'-8"	HM	1 3/4"	F	HM	T1	2E	2C	—	B	#2	
10	MECHANICAL STOR. 10	3'-0"	6'-8"	HM	1 3/4"	F	HM	T1	2A	2A	—	B	#2	V.I.F. EXIST'G. FRAME DEPTH - MATCH EXIST'G.
11	BOILER ROOM 11	3'-0"	6'-8"	HM	1 3/4"	F	HM	T1	3	3	A	B	#2	V.I.F. EXIST'G FRAME DEPTH - MATCH EXIST'G.
11A	BOILER ROOM 11	EXIST.												
12	TOILET 12	3'-0"	6'-8"	HM	1 3/4"	F	HM	T1	1B	1B	C	C	#5	UNDERCUT DOOR 3/4".
13	TOILET 13	3'-0"	6'-8"	HM	1 3/4"	F	HM	T1	1B	1B	C	C	#5	UNDERCUT DOOR 3/4".
14	TEACHERS LOUNGE 14	3'-0"	6'-8"	HM	1 3/4"	F	HM	T1	1B	1B	A	C	#1	
15	KITCHEN 15						HM	T1	4	4	B			V.I.F. EXIST'G FRAME DEPTH - MATCH EXIST'G
16	PASSAGE 16						HM	T1	4	4	B			V.I.F. EXIST'G FRAME DEPTH - MATCH EXIST'G
17	TOILET 17	3'-0"	6'-8"	HM	1 3/4"	F	HM	T1	1A	1A	C	—	#5	UNDERCUT DOOR 3/4".
18	TOILET 18	3'-0"	6'-8"	HM	1 3/4"	F	HM	T1	1A	1A	C	—	#5	UNDERCUT DOOR 3/4".
19	STORAGE 19	3'-0"	6'-8"	HM	1 3/4"	F	HM	T1	2B	2B	—	B	#2	V.I.F. EXIST'G FRAME DEPTH - MATCH EXIST'G
20	CRAWL SPACE 20	3'-0"	5'-0"	HM	1 3/4"	F	HM	T2	2B	2B	2B	B	#7	V.I.F. EXIST'G OPENING
2A	LIBRARY 02	3'-0"	6'-8"	HM	1 3/4"	F	HM	T1	9	9	—		#1	
3A	ART 03	3'-0"	6'-8"	HM	1 3/4"	F	HM	T1	9	9	—		#1	
100	CLASSROOM 100	EXIST.									A		E	BLOCK EXIST'G. TRANSOM (10 A11).
101	CLASSROOM 101										A		E	INSTALL RELOCATED WD. FRAME, DOOR & HRDWARE. BLOCK EXIST'G. TRANSOM, SEE DTL 10 - A11.
101A	CLASSROOM 101	PR. 2'-0"	6'-8"	WD	1 3/4"	PP	EXIST.				D		#8	V.I.F WIDTH. MODIFY EXIST WD. FRAME.
102	CLASSROOM 102	EXIST.									A		E	BLOCK EXIST'G. TRANSOM (10 A11).
103	STAIR 1	3'-0"	7'-0"	HM	1 3/4"	FNJ	HM	T1	1A	1A	A	B	#3	
103A	STAIR 2	3'-0"	7'-0"	HM	1 3/4"	FNJ	HM	T1	1A	1A	A	B	#3	
104	VESTIBULE 104	EXIST.											E	
104A	VESTIBULE 104	EXIST.											E	PROVIDE NEW TEMPERED GLASS.
105	GIRL'S ROOM 105	3'-0"	7'-0"	WD	1 3/4	F	HM	T1	B	B	—	B	#6	
106	CLASSROOM 106	EXIST.									A		E	BLOCK EXIST'G. TRANSOM (10 A11).
107	SMALL GROUP 107	3'-0"	7'-0"	WD	1 3/4	FG	HM	T1	1A	1A	A	C	#1	
108	H.C. TOILET 108	3'-0"	7'-0"	WD	1 3/4	F	HM	T1	1A	1A	C	C	#5	UNDERCUT DOOR 3/4".
109	JANITOR 109	3'-0"	7'-0"	WD	1 3/4	F	HM	T1	1A	1A	C	B	#9	
109A	GIRLS ROOM 105	3'-0"	7'-0"	WD	1 3/4	F	HM	T1	1A	1A	—	B	#6	
111	BOY'S ROOM 111	3'-0"	7'-0"	WD	1 3/4	F	HM	T1	1A	1A	C	B	#6	
113	VESTIBULE 113	3'-0"	7'-0"	HM	1 3/4	FNJ	HM	T1	1A	1A	B	B	#4	
114	VESTIBULE 114	PR 3'-0"	7'-0"	HM	1 3/4	FNJ	HM	T1	G	G	—	B	#10	
114A	VESTIBULE 114	EXIST.												PROVIDE NEW TEMPERED GLASS.
115	CORRIDOR 115	EXIST.												PROVIDE NEW TEMPERED GLASS.
115A	CORRIDOR 115	PR 3'-0"	7'-0"	HM	1 3/4	FNJ	HM	T1	1A	1A	—	B	#10	
116	WOMEN'S RM. 116	EXIST.											#14	
117	MEN'S 117	EXIST.											#14	
118	JANITOR 118	3'-0"	6'-8"	HM	1 3/4"	F	EXIST.				—	B	#6	
120	SMALL GROUP 120	3'-0"	6'-8"	WD	1 3/4	FG	HM	T1	1A	1A	B	B	#1	
121	LOBBY 121	EXIST.											E	PROVIDE NEW TEMPERED GLASS.
122	OFFICE 122	3'-0"	6'-8"	WD	1 3/4	F	HM	T3	3A	3A	B	C	#1	
123	PRINCIPAL 123	3'-0"	6'-8"	WD	1 3/4	F	HM	T1	1A	1A	A	—	#11	
123A	PRINCIPAL 123	EXIST.											E	PROVIDE NEW TEMPERED GLASS.
124	HEALTH 124	3'-0"	6'-8"	WD	1 3/4	F	HM	T1	1A	1A	A	—	#11	
124A	HEALTH 124	2'-8"	6'-8"	WD	1 3/4	F	HM	T1	1A	1A	A	B	#9	
124B	HEALTH 124	3'-0"	6'-8"	WD	1 3/4	F	HM	T1	1A	1A	C	—	#5	
125	CONF./WORK RM. 125	3'-0"	6'-8"	WD	1 3/4	F	HM	T1	1A	1A	—	—	#11	
126	CLASSROOM 126	EXIST.									B	C	#12	
126A	CLASSROOM 126A	EXIST.											E	PROVIDE NEW TEMPERED GLASS.
127	TOILET 127	EXIST.											E	
128	CLASSROOM 128	EXIST.									B	C	#12	
128A	CLASSROOM 128	EXIST.											E	PROVIDE NEW TEMPERED GLASS.
129	TOILET 129	EXIST.											E	
130	STAGE 130	8'-0"	6'-8"	WD	1 3/4	F	HM	T1	2A	2A	B	C	#12	
131	ALL PURPOSE RM. 131	EXIST.											E	PROVIDE NEW TEMPERED GLASS.
131A	ALL PURPOSE RM. 131	PR 3'-0"	6'-8"	WD	1 3/4	FNJ	HM	T1	2C	2C	—	C	#13	V.I.F. EXIST'G FRAME DEPTH - MATCH EXIST'G
131B	ALL PURPOSE RM. 131	PR 3'-0"	6'-8"	WD	1 3/4	FNJ	HM	T1	2C	2C	—	C	#13	V.I.F. EXIST'G FRAME DEPTH - MATCH EXIST'G
131C	ALL PURPOSE RM. 131	PR 3'-0"	7'-0"	HM	1 3/4	F	HM	T1	11-A11	11-A11	D		#15	V.I.F EXIST'G WINDOW WALL DEPTH
130A	STAGE 130	3'-0"	6'-8"	WD	1 3/4	F	HM	T1	2C	2C	—	C	#1	
VP.1							HM	T2	1A	1A	1A			3'-0 X 3'-0

NOTE: REGLAZE ALL EXISTING EXTERIOR DOORS WITH LAMINATED SAFETY GLASS

STATE OF CONNECTICUT — CAROL JAMES LAWLER — REG. 21102 — REGISTERED ARCHITECT

C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
7 SOUTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 233-8525

CONSULTANTS:
MECHANICAL & ELECTRICAL: BURTON & VANHOUTEN ENGINEERS INC.
10 NORTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 236-2266
GIRARD & CO. ENGINEERS
40 WETHERSFIELD AVENUE HARTFORD, CT. 06114 (203) 524-1894
STRUCTURAL:

DOOR SCHEDULE
SCALE: AS NOTED.
DATE: 2-1-89.
DRAWN BY: S.S.
REVISED:

A11

BURNHAM SCHOOL

PARTITION TYPES



- 2 LAYERS 5/8" FIRE RATED GYB.
- 3 5/8" METAL STUDS 24" O.C. MAX. W/ SOUND INSULATION
- 2 LAYERS 5/8" FIRE RATED GYB.

A — UL DESIGN U403

AP — TYPE A PARTITION WITH PLASTER VENEER BOTH SIDES



- 2 LAYERS 5/8" FIRE RATED GYB.
- 6" METAL STUDS 24" O.C. MAX. W/ SOUND INSULATION
- 2 LAYERS 5/8" FIRE RATED GYB.

B — UL DESIGN U403 (SIM)

BP — TYPE B PARTITION WITH PLASTER VENEER BOTH SIDES



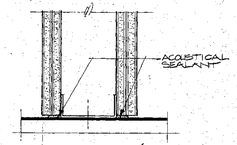
- 8" NOMINAL CMU
- 7/8" METAL FURRING
- 2 LAYERS 5/8" GYB.

G — UL DESIGN U905 (SIM)



- 3 5/8" METAL STUDS 24" O.C. MAX.
- 1 LAYER 5/8" GYB.
- 1/2" HOMOSOTE

K



TYP. GYP. WALL/PERIMETER SEALANT
SC: 3"=1'-0"



EXISTING OR NEW WALL
7/8" METAL FURRING 24" O.C. MAX.
2 LAYERS 5/8" FIRE RATED GYB.

C — TYPE C PARTITION WITH PLASTER VENEER (ONE SIDE)

CP



- 3 5/8" MTL STUDS 24" O.C. MAX
- 2 LAYERS 5/8" FIRE RATED GYB.

D — ACCOUTICAL INSUL. WIRED IN PLACE

DP



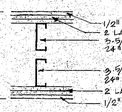
- 8" NOMINAL CMU
- 7/8" METAL FURRING
- 1 LAYER 5/8" GYB.

GP



PLASTER VENEER
2 LAYERS 5/8" FIRE RATED GYB.
3 5/8" MTL STUDS 24" O.C. MAX. W/ SOUND INSUL.
2 LAYERS 5/8" FIRE RATED GYB.
2 1/8" MTL. STUDS 24" O.C. MAX. W/ SOUND INSUL.
2 LAYERS 5/8" FIRE RATED GYB.
PLASTER VENEER

L



- 1/2" HOMOSOTE
- 2 LAYERS 5/8" GYP BD.
- 2 5/8" METAL STUDS 24" O.C. MAX.
- 3 5/8" METAL STUDS 24" O.C. MAX
- 2 LAYERS 5/8" GYP BD.
- 1/2" HOMOSOTE

E



2 1/2" METAL STUDS 24" O.C. MAX.
2 LAYERS 5/8" FIRE RATED GYB.

D'



1/2" FIRE-RATED GYB.
4" METAL STUDS AT 24" O.C. MAX.
1/2" FIRE-RATED GYB.

H



TYPE D PARTITION WITH PLASTER VENEER (ONE SIDE)

D'



8" NOMINAL CMU
2 HR. FIRE RATED
UL DESIGN U905

F

FP — TYPE F PARTITION WITH PLASTER VENEER ONE SIDE



10" NOMINAL CMU
2 HR. FIRE-RATED
UL DESIGN U905 (SIM)

F'



PLASTER VENEER
2 LAYERS 1/2" FIRE-RATED GYB.
3 5/8" METAL STUDS 24" O.C. MAX.
2 LAYERS 1/2" FIRE-RATED GYB.
PLASTER VENEER

J

ABBREVIATIONS

AFT	ASPHALT TILE
AT	ACOUSTIC TILE *
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CPT	CARPET
EXIST or E	EXISTING
FWC	FABRIC WALL COVERING
GYB	GYPSUM BOARD
HO	HOMOSOTE
PLAS	PLASTER
PT	PAINT
VCB	VINYL COVE BASE
WD	WOOD
CT	CERAMIC TILE

* NOTE: FOR TYPE OF ACOUSTIC TILE, SEE REFLECTED CEILING PLANS, SHEET A6

FINISH SCHEDULE

RM. NO.	ROOM NAME	FLOOR MAT.	FLOOR FIN.	BASE N	BASE S	BASE E	BASE W	WALL NORTH MAT	WALL NORTH FIN	WALL SOUTH MAT	WALL SOUTH FIN	WALL EAST MAT	WALL EAST FIN	WALL WEST MAT	WALL WEST FIN	CEILING MATERIAL	CEILING HGTH.	REMARKS
01	MUSIC	EXIST.	CPT	VCB	VCB	VCB	VCB	E	PT	HO	FWC	E	PT	E	PT	AT	E	
02	LIBRARY	EXIST.	CPT	VCB	VCB	VCB	VCB	HO	FWC	HO	FWC	GYB	PT	E	PT	AT	E	
03	ART	EXIST.	AFT	VCB	VCB	VCB	VCB	HO	FWC	HO	FWC	GYB	PT	E	PT	AT	E	
04	ELECTRICAL CLOSET	EXIST.	AFT	VCB	VCB	VCB	VCB	GYB	PT	GYB	PT	GYB	PT	GYB	PT	GYB/PT	E	
07	CORRIDOR	EXIST.	CPT	VCB	VCB	VCB	VCB	GYB	PT	GYB	PT	GYB	PT	GYB	PT	AT	E	
08	VESTIBULE	EXIST.	CPT	VCB	VCB	VCB	VCB	GYB	PT	GYB	PT	GYB	PT	GYB	PT	AT	E	
09	ELEVATOR MACH. RM.	EXIST.	–	–	–	–	–	CMU	PT	E	PT	CMU	PT	CMU	PT	GYB/PT	E	
10	MECHANICAL STORAGE	EXIST.	–	–	–	–	–	CMU	PT	E	PT	E	PT	CMU	PT	GYB/PT	E	
11	BOILER ROOM	EXIST.	–	–	–	–	–	CMU/E	PT	E	PT	E	PT	E	PT	EXIST/PT	E	PATCH PLASTER CLG. & PAINT
12	TOILET	EXIST.	CT	CT	CT	CT	CT	GYB	PT	GYB	PT	GYB	PT	GYB	PT	AT	E	
13	TOILET	EXIST.	CT	CT	CT	CT	CT	GYB	PT	GYB	PT	GYB	PT	GYB	PT	AT	E	
14	TEACHERS LOUNGE	EXIST.	CPT	VCB	VCB	VCB	VCB	E/GYB	PT	E	PT	E	PT	GYB	PT	AT	E	
15	KITCHEN	EXIST.	AFT	VCB	VCB	VCB	VCB	E	PT	E	PT	E	PT	GYB	PT	AT	E	
16	PASSAGE	EXIST.	AFT	VCB	VCB	VCB	VCB	E	PT	E	PT	GYB	PT	GYB	PT	AT	E	
17	TOILET	EXIST.	CT	CT	CT	CT	CT	E	PT	GYB	PT	GYB	PT	GYB	PT	AT	E	
18	TOILET	EXIST.	CT	CT	CT	CT	CT	GYB	PT	E	PT	GYB	PT	GYB	PT	AT	E	
19	STORAGE	EXIST.	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
20	CRAWL SPACE	EXIST	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
	STAIR 1	EXIST.	RUBBER	VCB	VCB	VCB	VCB	GYB	PT	E	PT	E/GYB	PT	E	PT	E/PT	E	
	STAIR 2	EXIST.	RUBBER	VCB	VCB	VCB	VCB	GYB	PT	GYB	PT	GYB	PT	GYB	PT	E/PT	E	
100	CLASSROOM	EXIST.	CPT	E	E	E	E	E	PT	E	PT	E	PT	E	PT	E/PT	E	
101	CLASSROOM	EXIST.	CPT	E	E	E	E	E	PT	E	PT	E	PT	E	PT	E/PT	E	
102	CLASSROOM	EXIST.	CPT	E	E	E	E	E	PT	E	PT	E	PT	E	PT	E/PT	E	
103	CORRIDOR	EXIST.	CPT	WD	WD	WD	WD	PLAS	PT	PLAS	PT	PLAS	PT	PLAS	PT	E/PT	E	
104	VESTIBULE	EXIST.	E	E	E	E	E	E	PT	E	PT	E	PT	E	PT	E/PT	E	
105	GIRL'S ROOM	EXIST.	E	E/CT	E	E	E/CT	E	PT	E	PT	E	PT	E	PT	E/PT	E	
106	CLASSROOM	EXIST.	CPT	E	E	E	E	E	PT	E	PT	E	PT	E	PT	E/PT	E	
107	SMALL GROUP	EXIST.	CPT	WD	WD	WD	WD	PLAS	PT	PLAS	PT	PLAS	PT	PLAS	PT	E/PT	E	
108	H.C. TOILET	EXIST.	CT	CT	CT	CT	CT	GYB	PT	GYB	PT	GYB	PT	GYB	PT	AT	8'-0"	
109	JANITOR	EXIST.	CT	CT	CT	CT	CT	GYB	PT	GYB	PT	GYB	PT	GYB	PT	GYB/PT	E	
109A	GIRL'S VESTIBULE	EXIST	E	CT	CT	CT	CT	GYB	PT	GYB	PT	GYB	PT	GYB	PT	E/PT	E	
111	BOY'S ROOM	CONC.	CT	CT	CT	CT	CT	PLAS	PT	PLAS	PT	PLAS	PT	PLAS	PT	E/PT	E	
112	CORRIDOR	EXIST.	CPT	WD	WD	WD	WD	PLAS	PT	PLAS	PT	PLAS	PT	—	—	E/PT	E	
113	VESTIBULE	CONC.	CPT	WD	WD	WD	WD	PLAS	PT	PLAS	PT	PLAS	PT	PLAS	PT	AT	10'-0"	
114	VESTIBULE	E/CONC.	RUBBER	VCB	VCB	VCB	VCB	GYB	PT	E	E	E/GYB	PT	E/GYB	PT	E	E	
115	CORRIDOR	EXIST.	E	E	E	E	E	E	PT	E	PT	E	PT	E	PT	E/PT	E	
116	WOMEN'S ROOM	EXIST.	E	E	E	E	E	E	PT	E	PT	E	PT	E	PT	E	E	
117	MEN'S ROOM	EXIST.	E	E	E	E	E	E	PT	E	PT	E	PT	E	PT	E	E	
118	JANITOR	EXIST.	E	E	E	E	E	E	PT	E	PT	E	PT	E	PT	E	E	
119	CORRIDOR	EXIST.	E	VCB	E	E	E	E	PT	E/GYB	PT	E	PT	E	PT	AT	E	
120	SMALL GROUP	EXIST.	CPT	VCB	VCB	VCB	VCB	GYB	PT	E	PT	E	PT	GYB	PT	AT	E	
121	LOBBY	EXIST	E	VCB	VCB	VCB	VCB	CMU	PT	E	PT	GYB	PT	CMU	PT	AT	E	
122	OFFICE	EXIST	CPT	VCB	VCB	VCB	VCB	GYB	PT	GYB	PT	CMU	PT	GYB	PT	AT	8'-6"	
123	PRINCIPAL/CONFERENCE	EXIST	CPT	VCB	VCB	VCB	VCB	GYB	PT	GYB	PT	GYB	PT	GYB	PT	E/PT	E	
124	HEALTH	EXIST	CPT	VCB	VCB	VCB	VCB	E	PT	GYB	PT	GYB	PT	GYB	PT	AT	8'-6"	
124B	TOILET	EXIST	CT	CT	CT	CT	CT	E	PT	GYB	PT	E	PT	GYB	PT	AT	8'-6"	
126	CLASSROOM	EXIST	CPT	VCB	VCB	VCB	VCB	E	PT	E	PT	E	PT	E	PT	E/PT	E	
127	TOILET	EXIST	E	E	E	E	E	E	PT	E	PT	E	PT	E	PT	E/PT	E	
128	CLASSROOM	EXIST	CPT	VCB	VCB	VCB	VCB	E	PT	E	PT	E	PT	E	PT	E/PT	E	
129	TOILET	EXIST	E	E	E	E	E	E	PT	E	PT	E	PT	E	PT	E/PT	E	
130	STAGE	EXIST	E	E	E	E	E	E	PT	E	PT	E	PT	E	PT	E/PT	E	
131	ALL PURPOSE ROOM	EXIST	E	VCB	VCB	VCB	VCB	E	PT	CMU	PT	E	PT	E	PT	E/PT	E	
124A	STORAGE	EXIST	CPT	VCB	VCB	VCB	VCB	GYB	PT	GYB	PT	E	PT	GYB	PT	AT	8'-6"	
125	CONFERENCE	EXIST	CPT	VCB	VCB	VCB	VCB	E	PT	GYB	PT	GYB	PT	E	PT	E/PT	E	
	ELEVATOR		CPT															

STATE OF CONNECTICUT
SAMUEL JAMES LAWLER
REGISTERED ARCHITECT
No. 7388

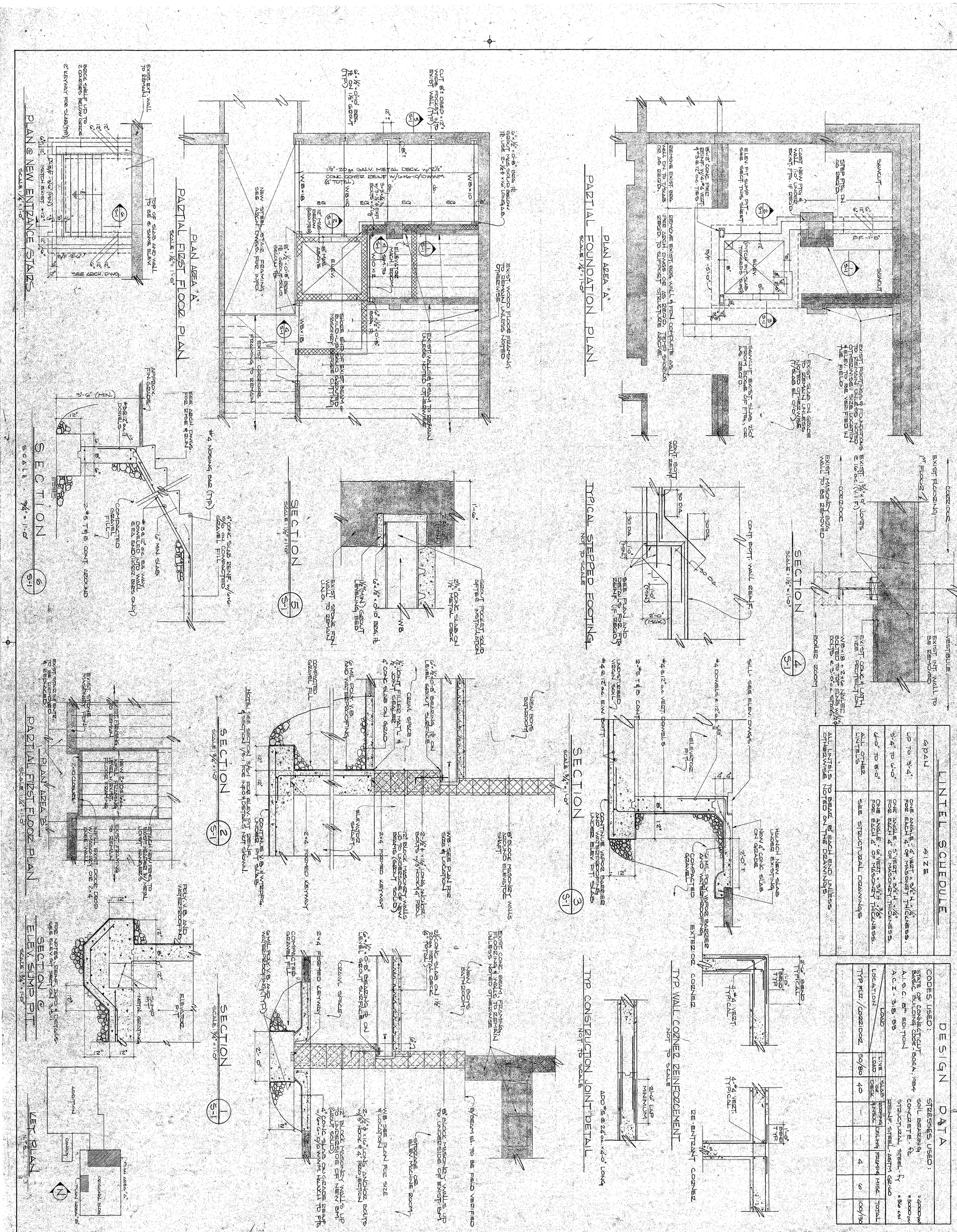
C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
7 SOUTH MAIN STREET WEST HARTFORD, CT. 06107 [203] 233-8526

CONSULTANTS:
MECHANICAL & ELECTRICAL: BURTON & VANHOUTEN ENGINEERS INC.
10 NORTH MAIN STREET WEST HARTFORD, CT. 06107 [203] 236-2566
STRUCTURAL: GIRARD & CO. ENGINEERS
49 WETHERSFIELD AVENUE HARTFORD, CT. 06114 [203] 524-1684

FINISH SCHEDULE
SCALE: AS NOTED
DRAWN BY: SS.
REVISED:
DATE: 2-1-89

A12

BURNHAM SCHOOL



LINTEL SCHEDULE

SPAN	SIZE
UP TO 3'-4"	ONE ANGLE 4"x3½"x5/16" FOR EACH 4" OF MASONRY THICKNESS
3'-4" TO 6'-0"	ONE ANGLE 5"x3½"x5/16" FOR EACH 4" OF MASONRY THICKNESS
6'-0" TO 8'-0"	ONE ANGLE 6"x4"x5/16" FOR EACH 4" OF MASONRY THICKNESS
ALL OTHER LINTELS	SEE STRUCTURAL DRAWINGS

ALL LINTELS TO BEAR 8" EACH END UNLESS OTHERWISE NOTED ON THE DRAWINGS

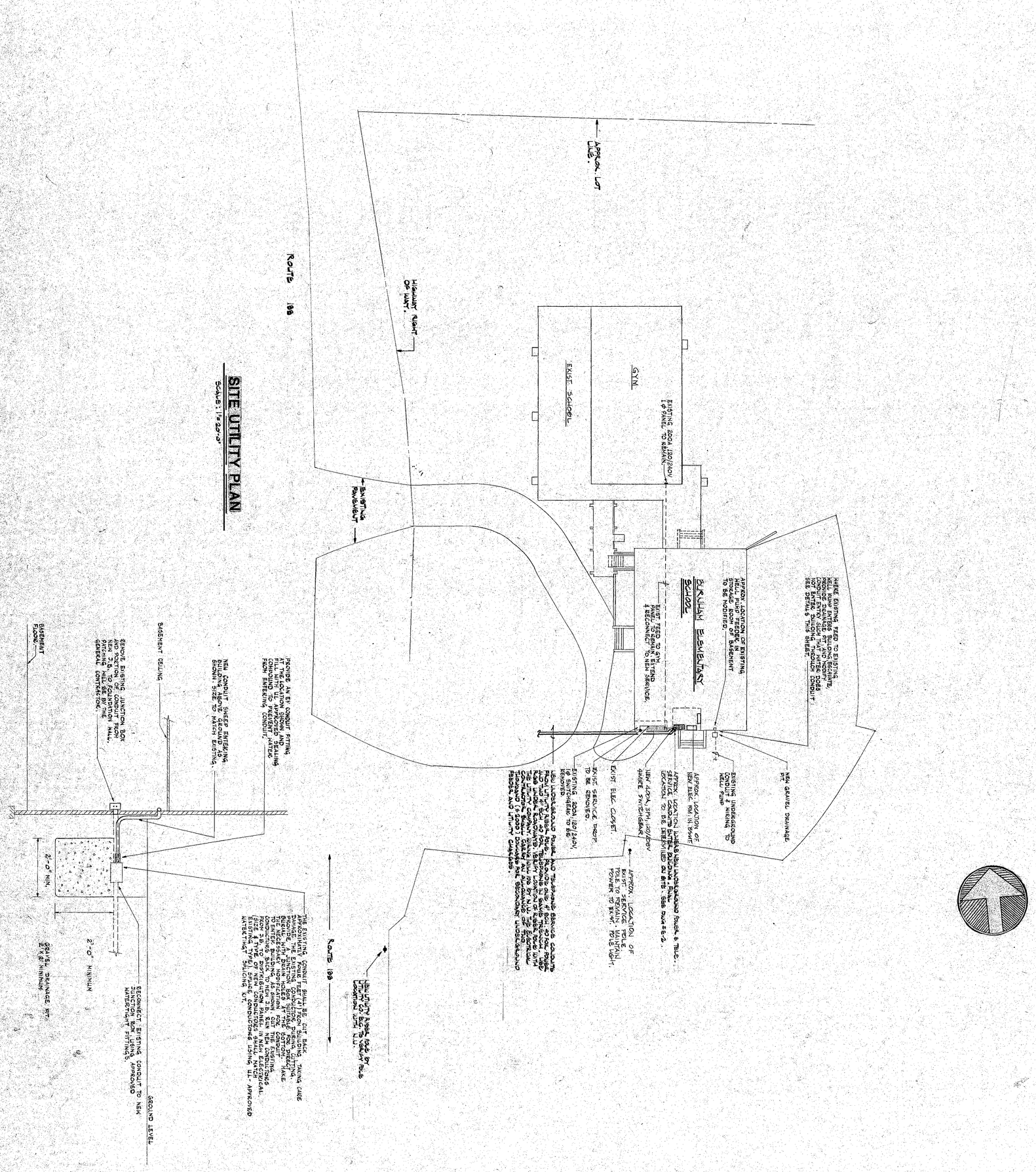
DESIGN DATA

CODES USED:
STATE OF CONNECTICUT BASIC BUILDING CODE, BOCA, 1984
A.I.S.C. 8TH EDITION
A.C.I. 318-83

STRESSES USED:
SOIL BEARING = 4000 psf
CONCRETE f'c = 3000 psi
STRUCTURAL STEEL fy = 36 ksi
REINF. STEEL - ASTM A615 GR 60

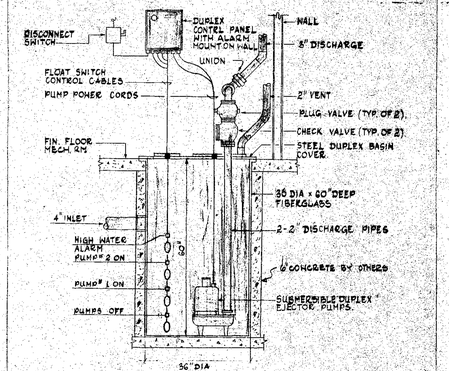
LOCATION / LOAD	LIVE LOAD	SLAB ON GR. CHECK	ROOFING & DECKING	FRAMING	MISC.	TOTAL
TYP. FLR./CORRIDOR	80/80	40	—	4	6	100/120

EXIST. FOOTINGS & FOUNDATIONS EXIST. 3/4" ø REINF. @ 12" o.c. (V.I.F.)
EXIST FLOORING
1ST FLOOR
EXIST. INT. WALL TO BE REMOVED
EXIST. MASONRY WALL TO BE REMOVED
EXIST. CONC. FLOOR
EXIST. CONC. FLOOR TO BE PROTECTED
EXIST. SLAB ON GRADE NOTED OTHERWISE (V.I.F.)
EXIST. MASONRY WALL TO BE REMOVED
EXIST. FOOTINGS & FOUNDATIONS TO BE MODIFIED AS REQ'D. TO ACCOMMODATE NEW WORK. SIZE & LOCATION TO BE VERIFIED IN THE FIELD
EXIST. WOOD FLOOR FRAMING UNLESS NOTED OTHERWISE
EXIST. WALLS & BEAM TO REMAIN UNLESS NOTED OTHERWISE
REMOVE EXIST. BRICK WALL & CONC. FOOTING
REMOVE EXIST. SLAB, FTGS. & FOUNDATION AS REQ'D.
REMOVE EXIST. SLAB AS REQ'D.
REMOVE EXIST. BRICK WALL & CONC. FOOTING AS REQ'D.
REMOVE EXIST. SLAB, FTGS. & FOUNDATION AS REQ'D.
REMOVE EXIST. BRICK WALL & CONC. FOOTING AS REQ'D. TEMP. SHORING REQ'D. TO SUPPORT STRUCTURE ABOVE.
REMOVE EXIST. BRICK WALL & CONC. FOOTING AS REQ'D. TEMP. SHORING REQ'D. TO SUPPORT STRUCTURE ABOVE.
CONT. FOOTING
CONT. FOOTING
CONT. WALL BEYOND
CONT. FOOTING
CONT. WALL BEYOND
CONT. FOOTING
CONT. WALL BEYOND



SU-1	SITE UTILITY PLAN SCALE 1"=20'-0" DRAWN BY J.J. DATE 2-1-89 REVISED	CONSULTANTS : MECHANICAL & ELECTRICAL : BURTON & VANHOUTEN ENGINEERS INC. 10 NORTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 236-2365 STRUCTURAL : GIRARD & CO. ENGINEERS 40 WETHERSFIELD AVENUE HARTFORD, CT. 06114 (203) 524-1694	C. J. LAWLER ASSOCIATES ARCHITECTS & PLANNERS 7 SOUTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 233-8526

BURNHAM SCHOOL BRIDGEWATER



DUPLEX EJECTOR PUMPS & BASIN DETAIL

N.T.S.

PLUMBING FIXTURE SCHEDULE

Fixtures are based on Kohler or equals by American Standard. Support and drainage items are based on J. R. Smith,or equals by Wade. Water heater is based on State. Stainless steel sinks based on Elkay or equal by Just.

TYPE	FIXTURE	SOIL OR WASTE	VENT	HOT WATER	COLD WATER	MOUNT	DESCRIPTION
"A"	Water Closet	4"	2"	---	1/2"	Floor	Kohler "Wellworth" #K-3520-SH; vitreous china close-coupled siphon jet elongated toilet with tank liner. Glenwite #95 toilet seat. Provide supply with stop.
"B"	Water Closet Handi-capped	4"	2"	---	1/2"	Floor	Same as Fixture "A" but with Glenwite #LZ10H-CC two (2") inch lift toilet seat.
"C"	Urinal	2"	1½"	---	3/4"	Wall	Kohler "Bardon" water-guard Model #4360-T washout action urinal with 3/4" top spud inlet, 2" I.P.S. outlet, wall hanger and removable beehive strainer. Sloan #186-YB flush valve, J.R. Smith #637 urinal support.
"D"	Lavatory	1½"	1½"	1/2"	1/2"	Wall	Kohler "Greenwich" #2032, 20" x 18" vitreous china lavatory with 4" faucet centers, #K-7404-T, Triton II water-guard faucet with aerator and lever handles, #K-7715 drain with perforated grate tail-piece, #K-9000 cast brass P-trap. Provide J. R. Smith concealed arm support, supplies and stops.
"E"	Lavatory Handi-capped.	1½"	1½"	1/2"	1/2"	Wall	Kohler "Morningside" #K-12636 vitreous china wheelchair lavatory with 4" centers, #K-6885 single lever faucet, #K-13885 offset drain with open strainer, #K-9000 cast brass P-trap. Provide supplies and stops and J.R. Smith concealed arm support.
"F"	Mop Sink	3"	1½"	1/2"	1/2"	Floor	Fiat "Molded Stone" MSB-3624, 36" x 24" mop service basin with stainless steel integral drain, #832-AA rubber hose, #889-CC mop hanger, #833-AA silicone sealant, #E-77-AA, bumper guard #830-AA 8" centers service faucet with vacuum breaker, stops, pail hook with top brace, spout with hose thread. Mount tight to wall.
"G"	Sink Health	1½"	1½"	1/2"	1/2"	Counter	Elkay "Lustertone" #LR-1918, 18-gauge, Type 302 stainless steel self-rimming sink with 2 faucet holes. Kohler #K-13335 gooseneck faucet with aerator and 8" wrist blade handles. Provide strainer, tailpiece, cast brass "P" trap and stops on supplies.
"H"	Sink Lounge	1½"	1½"	1/2"	1/2"	Counter	Elkay "Lustertone" #LR-2219, single compartment, 18-gauge, Type 302 stainless steel sink with three (3) faucet holes #LK-2442. Hi-ark faucet with aerator. Provide strainers, tailpiece, stops, supplies and cast brass "P" trap.
"J"	Kitchen Sink	1½"	1½"	1/2"	1/2"	Counter	Elkay "Lustertone" #LR-3322 double compartment, 18-gauge, Type 302 stainless steel sink with four (4) faucet holes. #LK-35 strainer and tailpiece. #LK-53 continuous waste connection. Kohler #K-6895 single lever faucet, swing spout, aerator, hose and spray control. Provide supplies with stops and cast brass "P" trap.
"K"	Art Room Sink	1½"	1½"	1/2"	1/2"	Counter	Elkay "Lustertone" #DLR-2522-10, single-compartment, 18-gauge, Type 302 stainless steel sink with three (3) faucet holes. #LK-292-S-BH-S gooseneck faucet with aerator. J. R. Smith #8710 solid interceptor. Provide strainer, tailpiece, stops and supplies. Mount interceptor in cabinet work.
"L"	Art Room H.C. Sink	1½"	1½"	1/2"	1/2"	Counter	Elkay "Celebrity" #DECH-2521-L, double compartment, 20-gauge, Type 302 stainless steel sink with two (2) faucet holes. #LK-4123 hi-ark faucet less spray. Provide supplies with stops and strainer. Sink to be installed with solid interceptor. J.R. Smith #8710 mount in cabinet work.
"M"	Electric Water Cooler	1½"	1½"	---	1/2"	Wall	Elkay #EWM-1 electric water cooler, raised-rib basin, drain strainer, flexi-guard bubbler, non-pressurized cooling tank and mounting hanger. Rated for 4 GPH of 50° F drinking water. 1/10 HP, 120V-1Ø. Provide "P" trap and stop on supply.

BACKFLOW PREVENTOR:

Watts #909-S, reduced pressure principle backflow preventor assembly. All bronze construction, including strainer. The device shall consist of a pressure differential relief valve, check valves, ball valves, test cocks and protective strainer. Pipe relief valve to floor drain. See Plans for size.

HOSE BIB:

Woodford #24, brass construction wall faucet with vacuum breaker, backflow preventor.

FLOOR CLEANOUT:

J. R. Smith #4026, cast iron body and frame with round, adjustable, scoriated, secured nickel-bronze top. For carpeted floors, provide carpet market type (Y).

WALL CLEANOUTS:

J. R. Smith #4720, chrome-plated frame and plate secured with screws in all finished areas.

F.D.-1:

J. R. Smith #2010-A-P38, Duco cast iron body, flashing collar and cast iron round top antiflood rim strainer. Install flood rim flush with finished floor slab See Plans for size.

ELECTRIC WATER HEATER (EWH):

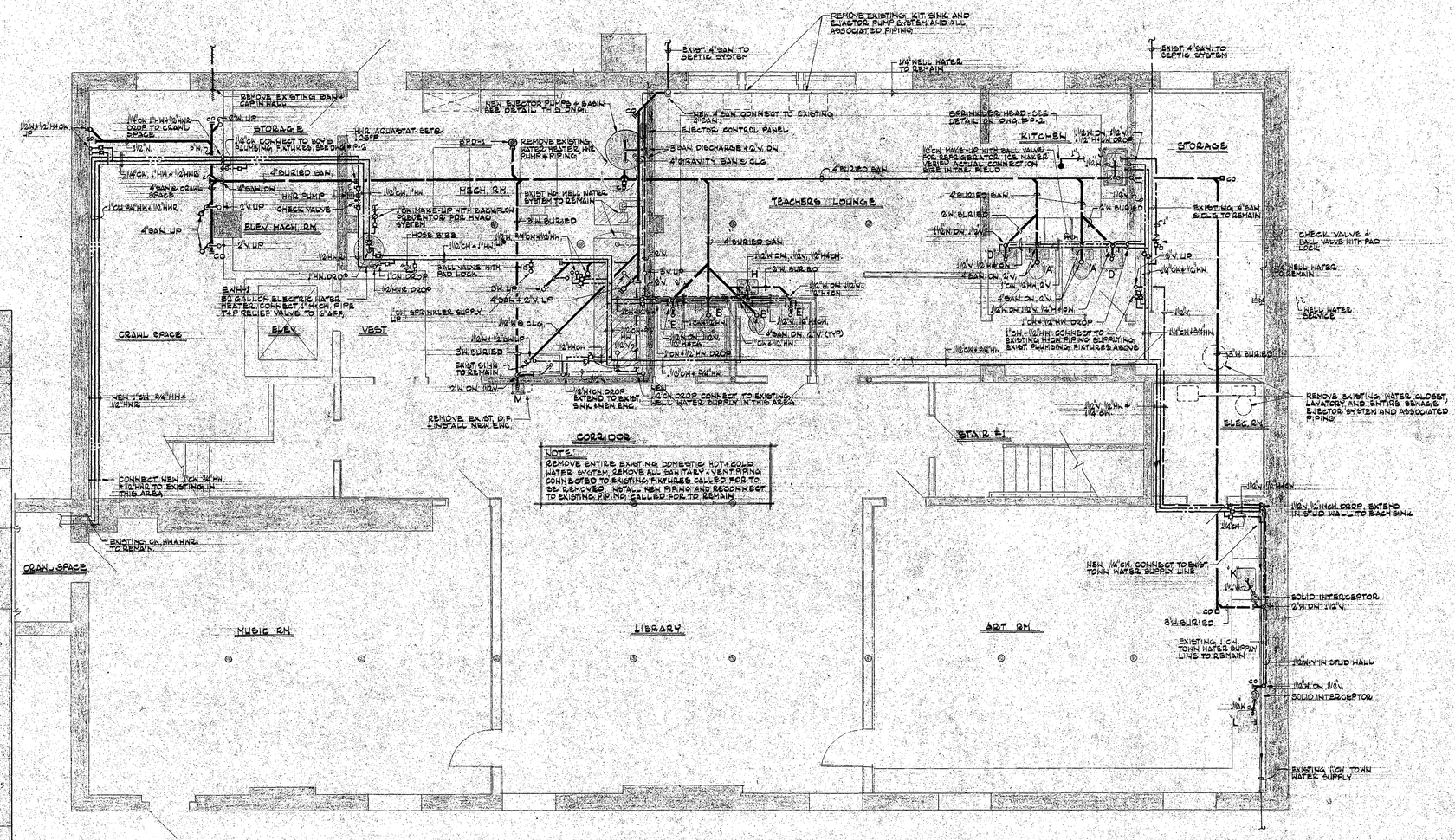
State "Turbo Sandblaster" #SB6-52-S-IFS, 52-gallon glass-lined tank, unit shall include heavy polyurethane foam insulation, baked enamel jacket, legs, immersion thermostats, internal fusing, ASME T&P relief valve, electrolyte protection, tank inspection port, three (3) sandhog heating elements 3 KW each, 208 Volt, 3 three-phase high temperature cut-off, unit shall be rated-or 150 PSI working pressure, UL listed and shall have three (3) year warranty.

DUPLEX EJECTOR PUMP SYSTEM:

Hydromatic, Inc. #SK-75M, two (2) submersible pumps, each shall have capacity of 80 GPM at 16 feet of head, when operated by A 3/4 HP, 208 Volt, three-phase. Each pump shall pass 2" spheral solids. Each discharge shall have swing check valve with outside lever and eccentric plug valve, and all necessary fittings.

Hydromatic 36" diameter x 60" deep fiberglass basin with 4" hub inlet and antiflotation ring, 36" steel basin cover with 2" vent and two (2) 2" discharge flanges and control mounting plate with cord grips.

Hydromatic #3900, four (4) Mercury Float style switches with weights and flexible control cords. Hydromatic duplex control panel with circuit breakers, magnetic contactor, alternator, H.O. switch and running lights, 120 Volt, single-phase. High water alarm shall be part of control panel and shall consist of 4" bell with warning lights, push-to-stop and push-to-test buttons.



BASEMENT PLUMBING PLAN

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

CONTRACTOR'S NOTES

1. This job is a renovation and addition. Before submitting his Bid, the Contractor shall visit the site and become thoroughly familiar with all existing conditions under which his work will be installed. This Contract includes all modifications of existing systems required for the installation of new equipment. This Contract includes all necessary offsets, transitions and modifications required to install all new equipment in existing spaces. All new and existing equipment and systems shall be fully operational under this Contract before the job is considered complete. The Contractor shall be held responsible for any assumptions he makes, any omissions or errors he makes as a result of his failure to become fully familiar with the existing conditions and the Contract Documents of all trades.
2. Location of all existing piping shown on floor plans is based on the best available information. Plumbing Contractor shall verify all locations of existing piping in the field and adjust as necessary.

PLUMBING LEGEND

- Existing wall construction to remain
- Existing wall construction to be removed
- New wall construction
- Existing piping to remain
- Existing piping to be removed
- New piping
- Piping to be capped
- Existing fixture to remain
- Existing fixture to be removed
- New fixture

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STRUCTURAL: GIRARD & CO. ENGINEERS 43 WETHERSFIELD AVENUE HARTFORD, CT. 06114 (203) 296-1644

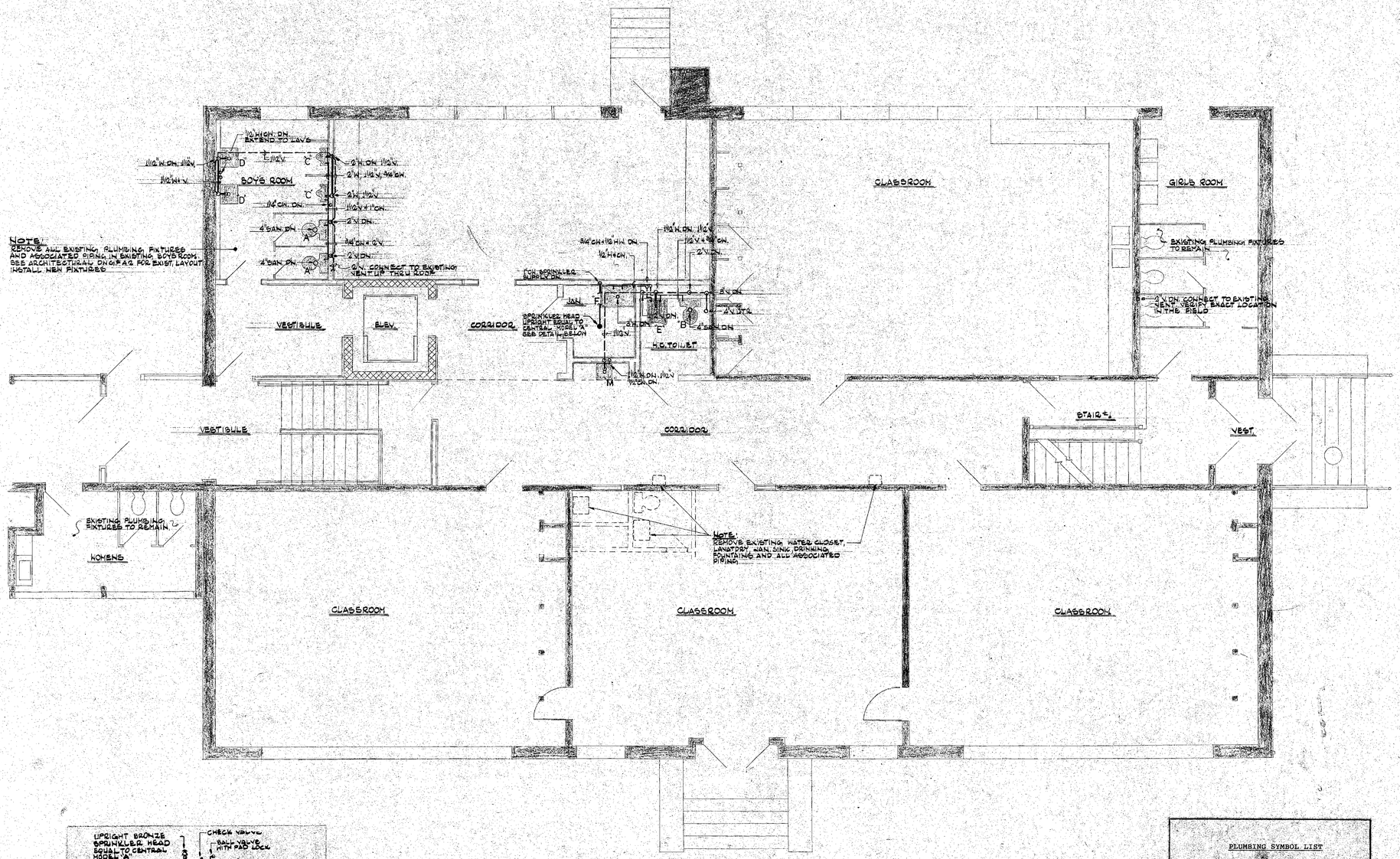
BURNHAM SCHOOL

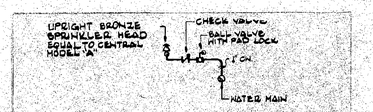
BASEMENT PLUMBING PLAN
SCALE 1/4"= 1'-0" DRAWN BY GSK
DATE 2-1-89 REVISED

P - 1

#87480

AS 1-12-88





SPRINKLER HEAD PIPING DETAIL
N.T.S.

FIRST FLOOR PART PLAN - PLUMBING

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

PLUMBING SYMBOL LIST

	Soil or Waste Buried
	Soil or Waste Above Grade
	Vent
	Cold Water
	Hot Water
	Hot Water Return
	Trap
	Pipe Elbow Up
	Pipe Elbow Down
	Ball Valve
	Union
	Backflow Preventor
	Cleanout
	Floor Drain
CO	Cleanout
FD	Floor Drain
CW	Cold Water
HW	Hot Water
SAN	Sanitary
W	Waste
V	Vent
EWH	Electrical Water Heater
RWL	Rain Water Leader

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STRUCTURAL:
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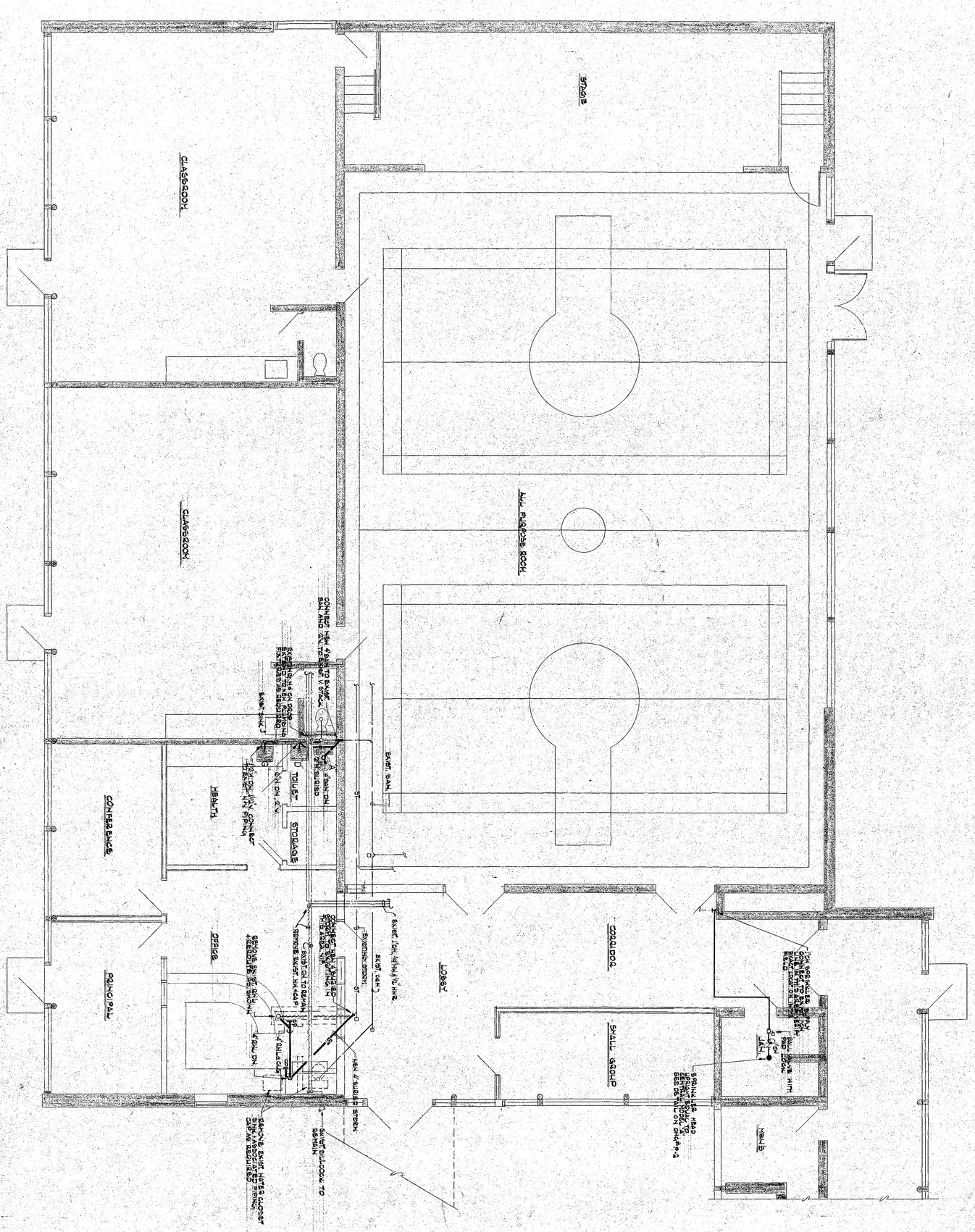
40 WETHERSFIELD AVENUE HARTFORD, CT. 06114 (203) 524-1594

FIRST FLOOR PART PLAN-PLUMBING
SCALE: 1/4" = 1'-0"
DATE: 2-1-89
DRAWN BY: GSK
REVISED

P - 2

BURNHAM SCHOOL BRIDGEWATER

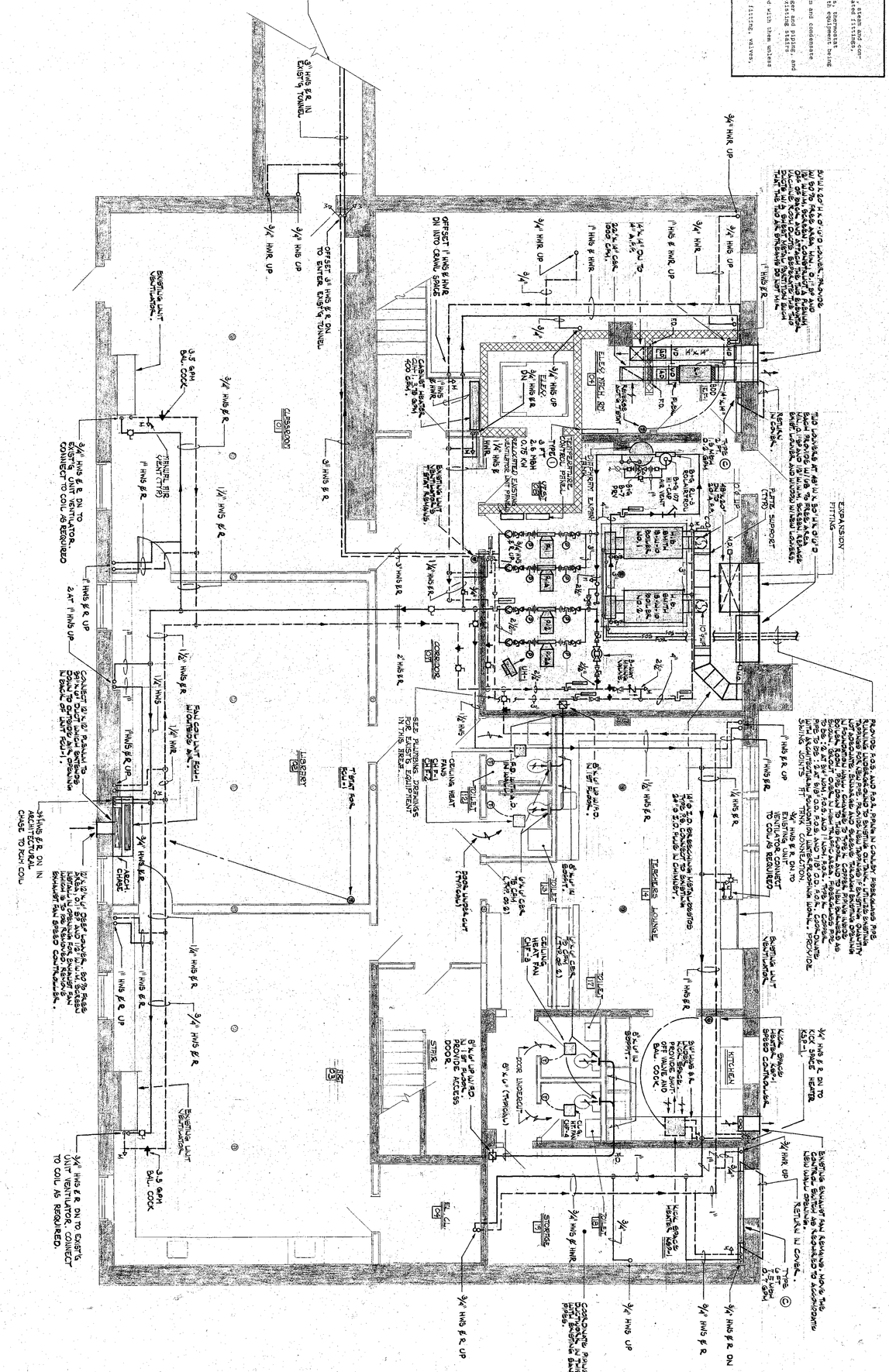
JOSEPH MERRITT & CO.
88/8/1 ELA


STAGE
CLASSROOM
CLASSROOM
ALL PURPOSE ROOM
CONFERENCE
HEALTH
TOILET
STORAGE
OFFICE
TOILET
LOBBY
CORRIDOR
SMALL GROUP
HEALTH
EXIST. SAN.
EXIST. SAN.
EXIST. SAN.
EXIST. SAN.
NEW FURNITURE STORAGE
REMOVE EXIST. SINK AND FAUCET
REMOVE EXIST. SINK AND FAUCET
REMOVE EXIST. SINK AND FAUCET

129780

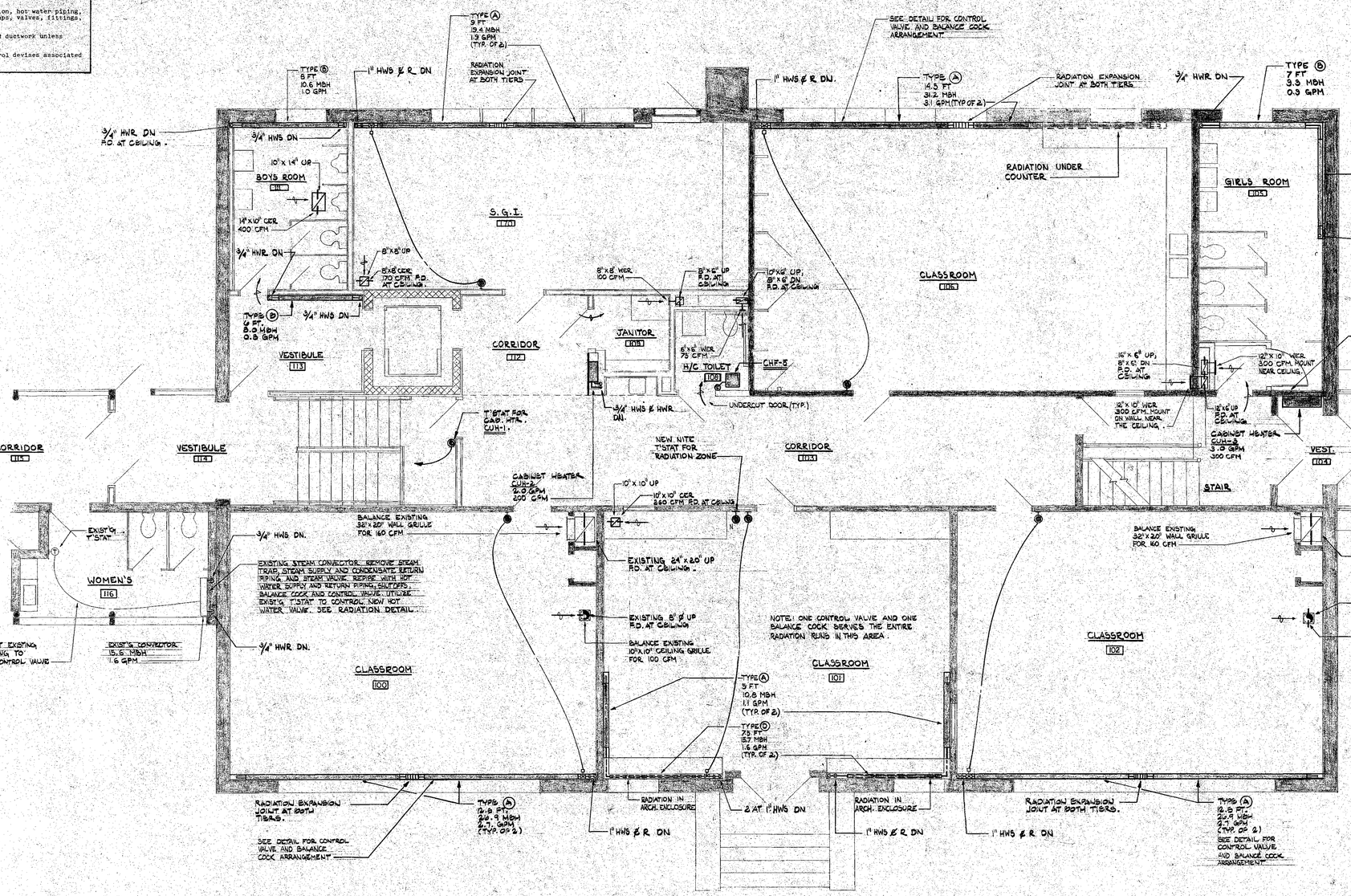
BASEMENT DEMOLITION NOTES:

1. Remove two (2) steam boilers, boiler breeching, steam and condensate piping, expansion tank, and all associated fittings, valves, etc.
2. Remove existing hot water pumps, control panels, thermostat wiring and other miscellaneous associated with equipment being removed.
3. Remove all steam and hot water radiation, steam and condensate piping, hot water piping, and steam traps.
4. Remove condensate pump and piping, heat exchanger and piping, and all piping and valves, etc. under existing stairs which are being removed.
5. Remove all exhaust fans and ductwork associated with them unless noted otherwise.
6. Remove all fuel oil suction and return piping, fittings, valves, etc. up to existing fuel oil tanks.


SEE SHEET H-3 FOR CONTINUATION PROVIDE EXPANSION LOOP HALF WAY DOWN TUNNEL.
3/4" HWS & R. IN EXISTING TUNNEL
3/4" HWR UP
OFFSET 1" HWS & R. DN TO ENTER EXISTING TUNNEL
3/4" HWS UP
OFFSET 1" HWS & R. DN INTO CRAWL SPACE
3/4" HWR UP
1" HWS & R.
3/4" HWS & R.
3/4" HWR
1" HWS & R. UP
3/4" HWR UP
3/4" HWS UP
3/4" HWR UP
3/4" HWS UP
3/4" HWS & R. UP
3/4" HWS & R. DN
3/4" HWS & R. DN TO EXISTING UNIT VENTILATOR. CONNECT TO COIL AS REQUIRED.
3/4" HWS & R. DN TO EXISTING UNIT VENTILATOR. CONNECT TO COIL AS REQUIRED
3/4" HWS & R. DN IN ARCHITECTURAL CHASE TO RUN COIL
1" HWS & R. UP
1" HWS & R. UP 24" ABOVE FLOOR
1" HWS & R. UP
1" HWS & R.
1" HWS & R. UP
1" HWS & R.
1" HWS & R.
1" HWS & R.

FIRST FLOOR DEMOLITION NOTES:

1. Remove all hot water and steam radiation, hot water piping, steam and condensate piping, steam traps, valves, fittings, etc. unless noted otherwise.
2. Remove all exhaust fans and associated ductwork unless noted otherwise.
3. Remove all thermostats and other control devices associated with equipment being removed.



FIRST FLOOR HVAC PLAN

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

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FIRST FLOOR HVAC PLAN
SCALE: AS NOTED
DATE: 12-1-85
DRAWN BY: JRS
REVISED

H-2

BURNHAM SCHOOL

JOSEPH MERRITT & CO

87286

FIRST FLOOR ADDITION DEMOLITION NOTES:

1. Remove all five (5) steam coils in Air Handling Unit, steam and condensate piping, steam traps, fittings, valves, etc.
2. Remove all ductwork required to achieve new duct configuration on this Drawing.
3. Remove diffusers and registers as required in renovated areas.

STAGE 130

ALL PURPOSE ROOM 113

EXIST'G SUPPLY FAN F-1 IS LOCATED ABOVE THE CORRIDOR IN A FAN ROOM. HVAC CONTRACTOR IS TO REPLACE THE EXIST'G FAN MOTOR AND STARTER WITH A NEW 208V/1PH. 2HP MOTOR. POWER WIRING BY E.C. AND CONTROL WIRING BY ATC.

EXIST'G CABINET HEATER 31.0 MBH 760 CFM 5.1 GPM

EXIST'G ACCESS HATCH

EXIST'G STEAM CABINET HEATER. REMOVE STEAM TRAP, STEAM VALVE, STEAM SUPPLY AND CONDENSATE RETURN PIPING. REPIPE WITH HOT WATER PIPING FROM TUNNEL. THE EXIST'G T'STAT SHALL CONTROL THE FAN OPERATION SUBJECT TO A NEW AQUASTAT. SEE THE GENERAL CABINET HEATER DETAIL.

CORRIDOR 115

EXIST'G T'STAT

1"HWR

1"HWS

JAN. 118

3"HWS&R

¾"HWS&R

MENS 117

EXISTING T'STAT FOR HOT WATER COIL HWC-1. T'STAT TO MODULATE NEW 3-WAY VALVE.

EXIST'G T'STAT

3"HWS&R

NEW NITE T'STAT FOR AIR HANDLER ZONE

EXIST'G STEAM CONVECTOR. REMOVE STEAM TRAP, STEAM VALVE, STEAM SUPPLY AND CONDENSATE RETURN PIPING. REPIPE WITH HOT WATER FROM TUNNEL. ADD 3 HOT WATER VALVE AND BALANCE COCK. THE EXIST'G T'STAT SHALL MODULATE THE NEW VALVE. SEE RADIATION DETAIL

EXIST'G CONVECTOR 10.8 MBH 1.1 GPM

EXIST'G SUPPLY FAN F-1

SMALL GROUP 120

2" HWR

2" HWS

2" HWS&R

12"x12" CSD 3-WAY 300 CFM

9"x9" CSD 4-WAY 150 CFM EA.

9ØFLEX

NEW H.W. COIL HWC-1

NEW H.W. COIL HWC-2

NEW H.W. COIL HWC-3

NEW H.W. COIL HWC-4

NEW H.W. COIL HWC-5

12"x6" LINED.

UNDERCUT DOOR FOR AIR RETURN

EXIST'G 12"x9" DUCT

10ØFLEX

EXIST'G 12"x9" DUCT

12"x12" CSD 4-WAY 400 CFM

MANUAL AIR VENT (TYP.)

EXIST'G 8"x8" EXHAUST DUCT TO EXIST'G EXH. FAN F-2. REBALANCE AS REQUIRED

EXIST'G 36"x16"

EXTENDED NEW 24"Ø UNDERSLAB DUCT TO NEW CHASE AND CONNECT TO NEW 36"x16"

18"x18" WRR 850 CFM MOUNT 6" A.F.F. AND BELOW MAIL COUNTER.

36"x16" DN TO CONNECT TO 24"Ø UNDERSLAB DUCT.

NEW 36"x16" RETURN DUCT. CONNECT TO EXIST'G 36"x16" ABOVE CEILING. LINE DIM. ARE CLEAR.

NEW 24"Ø UNDERSLAB RETURN DUCT. CONNECT TO EXIST'G 24"Ø

CARRIER THRU-THE-WALL ROOM AIR CONDITIONER. WEATHERMAKER MODEL 59AH081, 8100 BTUH, 9.4 EER, 115 V/1P 360 WATTS, 8.1 AMPS, 3 SPEED FAN, 1.6 PTS/HR 300 CFM ON HIGH 4-WAY AIR BLOW. PROVIDE SLIDE OUT CHASSIS, INSTALLATION KIT AND WALL SLEEVE. SEE ARCHITECTURAL DRAWING FOR MOUNTING HEIGHT.

REBALANCE EXIST'G CER FOR 75 CFM

EXIST'G 6"x6"

REBALANCE EXIST'G CER FOR 75 CFM

EXIST'G 6"x6" DUCT

6"x6" CER 75 CFM

REMOVE EXIST'G 6"x6" AND INSTALL NEW 8"x8"

EXIST'G SOFFIT

EXIST'G 18"x18"

EXISTING T'STAT FOR HOT WATER COIL HWC-2. T'STAT TO MODULATE NEW 3-WAY VALVE.

EXISTING T'STAT FOR HOT WATER COIL HWC-3. T'STAT TO MODULATE NEW 3-WAY VALVE

EXIST'G 15"x15"

DOOR UNDERCUT (TYP OF 4)

EXIST'G 15"x12"

NEW 18"x10"

EXIST'G 24"Ø UNDERSLAB

8"Ø

V.D.

8"Ø

12"x12" CSD 210 CFM

9"x9" CSD 130 CFM

6"Ø

V.D.

12"x12" CSD 210 CFM

14"x6"

HEALTH 124

OFFICE 122 10'0"x10'

14"x16" WBR 225 CFM 45° DEFL.

LINE DUCTS AS SHOWN. DIM. ARE CLEAR.

14"x6" WBR 225 CFM 45° DEFL.

RELOCATED T'STAT FOR HOT WATER COIL HWC-4. T'STAT TO MODULATE NEW 3-WAY VALVE.

CLASSROOM 128

CLASSROOM 126

CONFERENCE 125

PRINCIPAL 123

FIRST FLOOR HVAC PLAN

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

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FIRST FLOOR HVAC PLAN

SCALE: AS NOTED
DATE 2-1-83
DRAWN BY J.R.D.
REVISED

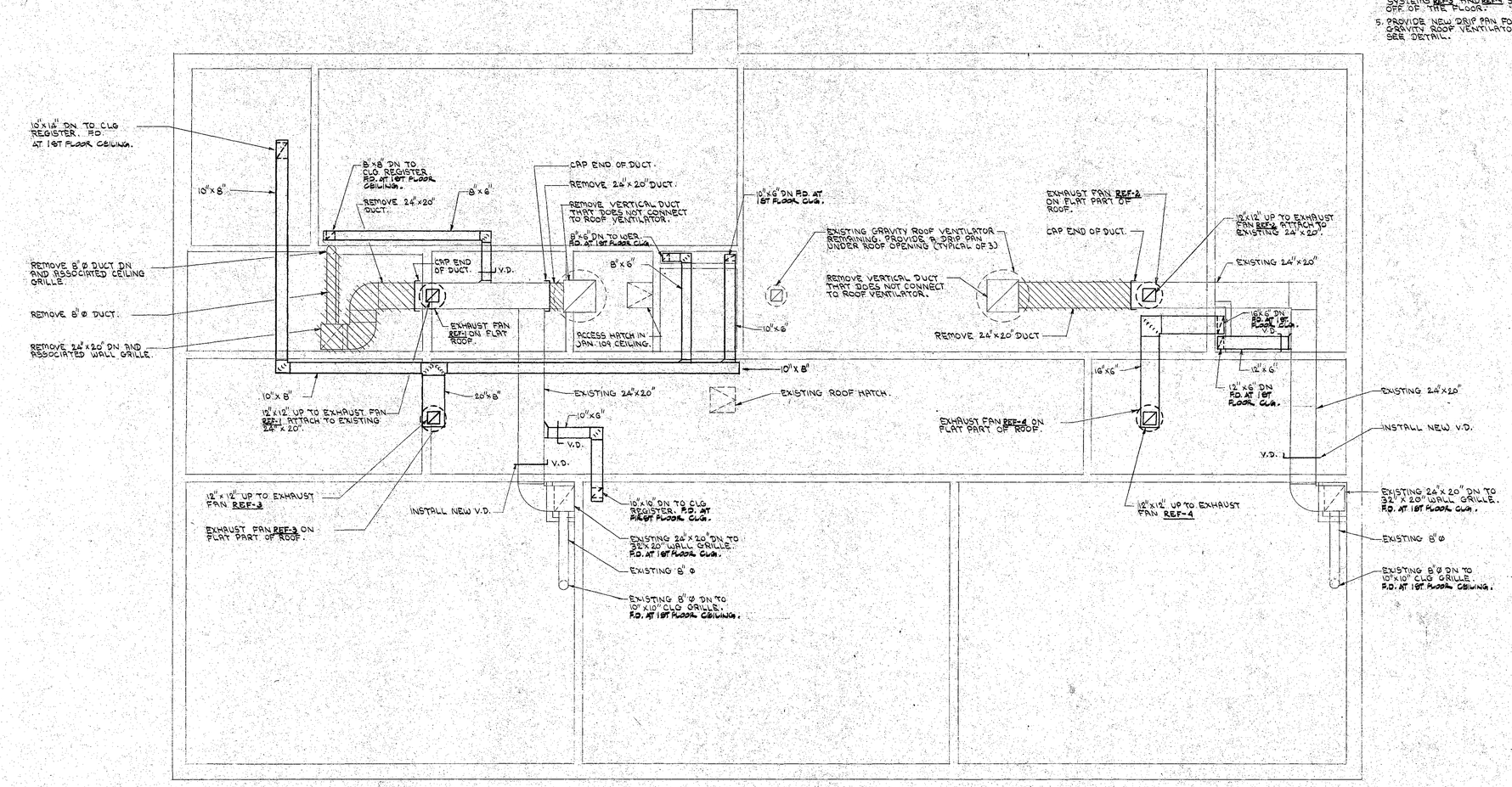
H-3

BURNHAM SCHOOL BRIDGEWATER

#87280

GENERAL NOTES:

1. THE WALLS SHOWN ON THIS PLAN ARE BELOW THE ATTIC FLOOR.
2. THE EXISTING DUCTWORK IN THE ATTIC RUNS ON THE FLOOR.
3. REMOVE ALL EXISTING ABANDONED SHEET METAL LYING ON ATTIC FLOOR.
4. THE NEW DUCT WORK FOR TOILET EXHAUST SYSTEMS REF-3 AND REF-4 SHALL BE KEPT OFF OF THE FLOOR.
5. PROVIDE NEW DRIP PAN FOR EXISTING GRAVITY ROOF VENTILATORS (TYP. OF 3) SEE DETAIL.



ATTIC FLOOR HVAC PLAN

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

LEGEND

- NEW OR RELOCATED
- EXISTING TO BE RELOCATED OR REMOVED
- EXISTING TO REMAIN

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ATTIC FLOOR HVAC PLAN

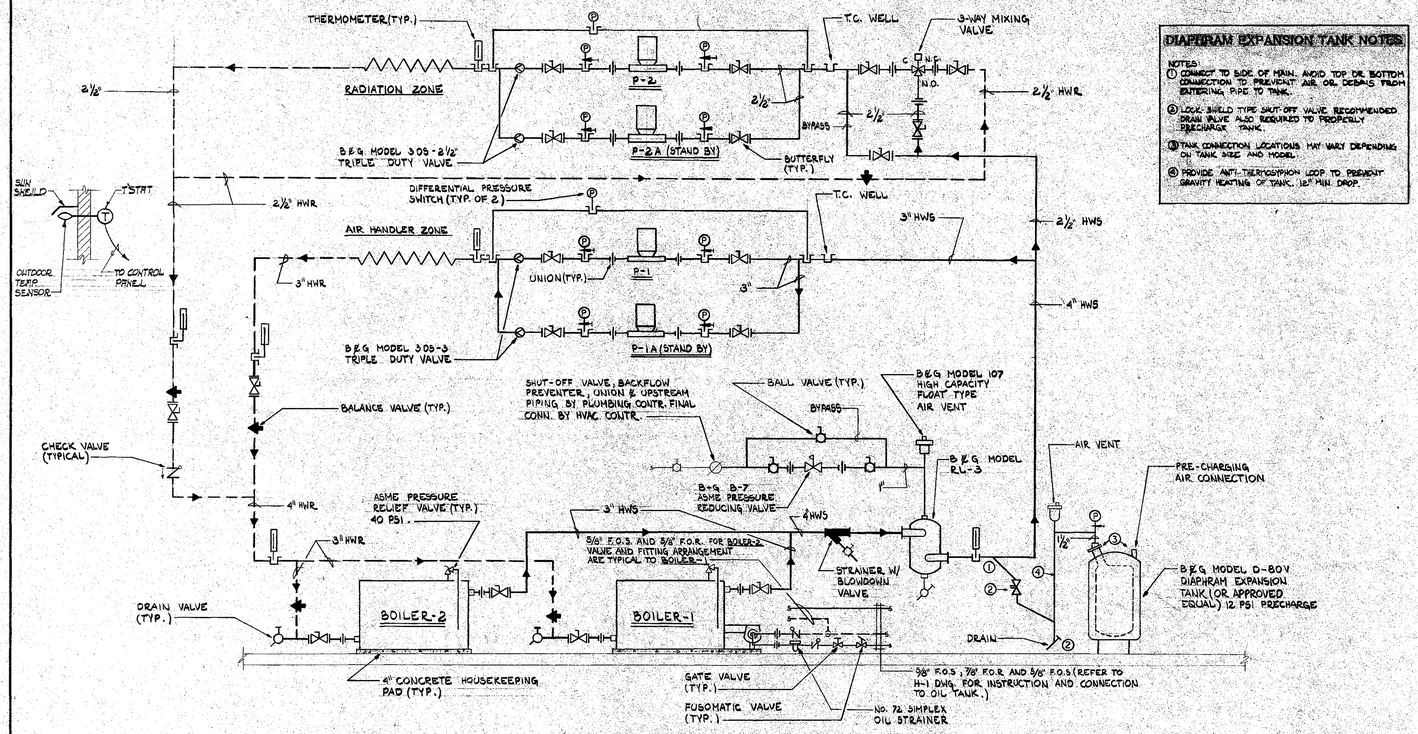
SCALE: AS NOTED
DATE: 2-1-85
DRAWN BY: J. R. D.
REVISED

H-4

BURNHAM SCHOOL

BRIDGEWATER

JOSEPH MERRITT & CO.



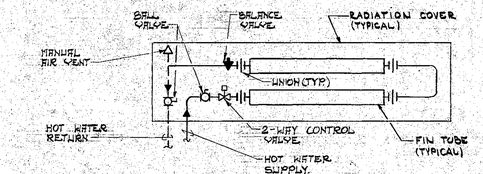
HOT WATER PIPING DIAGRAM

NOT TO SCALE

DIAPHRAM EXPANSION TANK NOTES

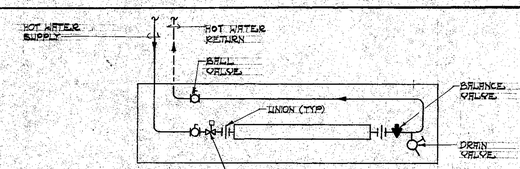
NOTES:

1. CONNECT TO SIDE OF MAIN, AVOID TOP OR BOTTOM CONNECTION TO PREVENT AIR OR DEBRIS FROM ENTERING PIPE TO TANK.
2. LOCK SHIELD TYPE SHUT-OFF VALVE RECOMMENDED. DRAIN VALVE ALSO REQUIRED TO PROPERLY PRECHARGE TANK.
3. TANK CONNECTION LOCATIONS MAY VARY DEPENDING ON TANK SIZE AND MODEL.
4. PROVIDE ANTI-THERMOSYPHON LOOP TO PREVENT GRAVITY HEATING OF TANK. 12" MIN. DROP.



HOT WATER DOUBLE TIER FIN TUBE RADIATION WITH RETURN BEND DIAGRAM UPFEED

NOT TO SCALE



HOT WATER SINGLE TIER FIN TUBE RADIATION WITH RETURN BEND DIAGRAM DOWNFEED

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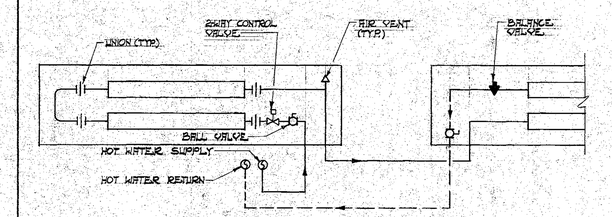
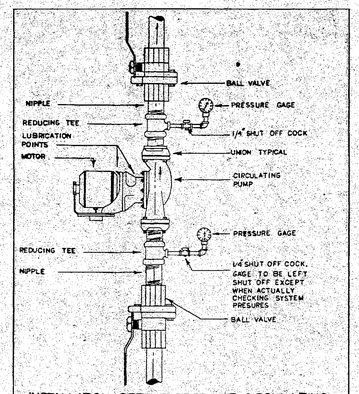


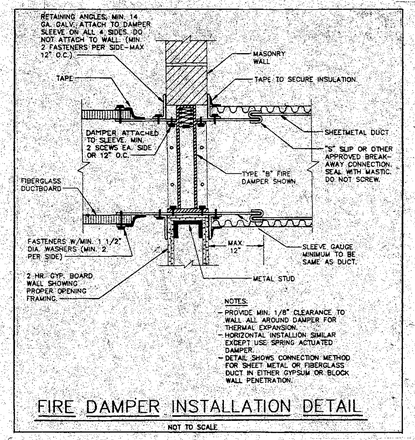
HOT WATER DOUBLE TIER FIN RADIATION WITH RETURN BEND CLASSROOM 101

NOT TO SCALE



INSTALLATION DETAILS OF IN-LINE CIRCULATING PUMP

NTS



FIRE DAMPER INSTALLATION DETAIL

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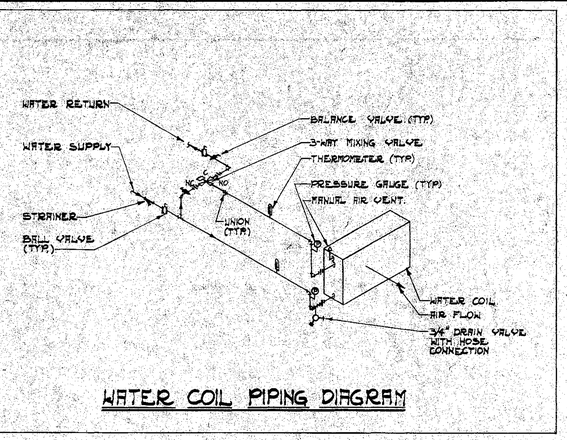
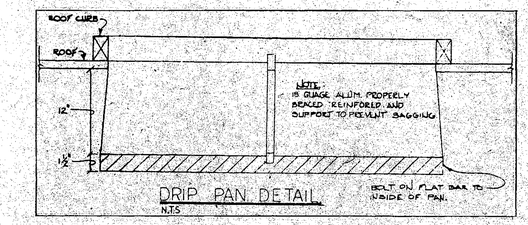
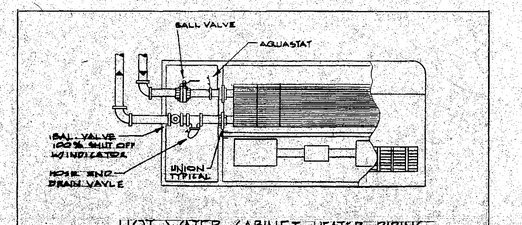


WATER COIL PIPING DIAGRAM



DRIP PAN DETAIL

N.T.S



HOT WATER CABINET HEATER PIPING

NTS

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CONSULTANTS:

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STRUCTURAL: GIRARD & CO. ENGINEERS
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HVAC SCHEMATIC AND DETAILS

DRAWN BY JRD

REVISED

SCALE AS NOTED

DATE 2-1-89

H-5

BURNHAM SCHOOL

BRIDGEWATER

JOSEPH MERRITT & CO.

GENERAL NOTES

1. This job is a renovation. Before submitting his Bid, the Contractor shall visit the site and become thoroughly familiar with all existing conditions under which his work will be installed. This Contract includes all modifications of existing systems required for the installation of new equipment. This Contract includes all necessary offsets, transitions, and modifications required to install all new equipment in existing spaces. All new and existing equipment and systems shall be fully operational under this Contract before the job is considered complete. The Contractor shall be held responsible for any assumptions he makes, any omissions or errors he makes as a result of his failure to become fully familiar with the existing conditions and the Contract documents of all trades.
2. All existing piping, radiators, convectors and other material removed shall be disposed of as directed by Owner.
3. All abondoned existing piping shall be removed to a concealed location.
4. The Contractor shall verify routing of new piping, prior to installing new piping, to verify clearance with existing equipment, piping or structural conditions.
5. The Contractor shall furnish and install lockable access doors in walls to all inaccessible attic or ceiling spaces where piping is to be installed. See Specifications for type.
6. Where piping is installed through floors or walls, the Contractor shall be required to re-route or off-set risers and piping if location shown on Plans for risers and piping is in conflict with existing structural or architectural condition.
7. All ductwork penetrations of floor slab, fire-rated wall or chases shall be protected with UL fire dampers (F.D.).
8. The location of all diffusers, registers and grilles shall be coordinated with the Architectural Reflected Ceiling Plans.
9. Provide insulated backplates for the thermostats located on exterior walls.
10. All ductwork elbows are to be full radius or squared with turning vanes.
11. The demolition notes are provided as a guide to the scope of demolition work. The work shall include, but not be limited to the scope of work shown and described on the Drawing and indicated in the Specifications. It is not the intent of the Drawing or notes to describe every demolition condition.

BOILER/BURNER SCHEDULE

The HVAC Contractor shall furnish and install boiler/burner units as manufactured by H.B. Smith. The boiler(s) shall be of a low pressure, cast-iron wet base design and constructed in accordance with the provisions of Section IV of the ASME Boiler and Pressure Vessel code and shall include the IBR symbol of certification.

The boiler shall be completely assembled at the job site in strict and exact accordance with the manufacturer's installation instructions. The boiler manufacturer shall be required to send a factory serviceman to the actual jobsite to perform the initial lightoff and shall be considered a standard part to the boiler/burner package.

Each boiler shall be suitable for a hot water system and shall be stamped for a maximum working pressure of 50 PSIG. Each boiler shall be provided with an ASME listed safety valve set at 40 PSIG and have a discharge capacity equal to or greater than the listed input output MBH of the boiler. The installing Contractor shall provide necessary piping to connect the safety valve -full size- to within six (6") inches of the floor so as to be no danger of scalding boiler room personnel during a relief situation.

The boiler shall be provided with a cast-iron smokehood and breeching damper which can be locked into place to pressurize the boiler. The damper shall be a fail safe design which will provide fixed minimum free opening and shall enter from the bottom of the smokehood.

Each water boiler shall be provided with an ASME approved safety valve, theraltimeter, return yoke with flexible seals, lead-lag controls, a manual reset high limit control, operating control and pre-piped MM63M low water cut-off (float type).

The burner fuel system shall conform to State and local applicable Codes and with the requirments of UL. The burner shall be of the flame retention design, with high efficiency and good performance under either natural or forced draft venting conditions. The boiler shall be pressurized under either draft venting condition.

The burner(s) shall be provided with low/high/low firing mode, a prewired electronic control panel which will incorporate a UL listed primary flame safeguard control. The panel will be mounted on the burner itself, a low fire hold switch, control circuit transformer and control circuit fuse, a UL 296 cad cell flame safeguard control, alarm bell and lights to indicate flame failure, low water, high limit and power on. Provide air flow switch. Also, one (1) of the two (2) control panels shall contain a manual lead-lag, 4-pole, double throw selector switch capable of determining lead-lag boiler selection. All boiler control wiring shall be by the HVAC Contractor.

The boiler manufacturer shall provide the services of their own service department personnel who shall conduct a start-up of the entire boiler/burner unit. The start-up shall check all limits, safety devices and controls. The unit shall be set to optimum efficiency and a report shall be made to the Contractor. This Contractor shall relay this report to the Engineer for his review.

The boiler manufacturer shall contract the service of this installation to a reputable service group who on a 24 hour a day basis will respond to all reports of problems. The response will be within a six (6) hour period or less.

UNIT	MODEL	OUTPUT MBH IBR GROSS	IBR NET	OIL BURNER MODEL	VOLTAGE/PHASE	HP	FUEL OIL	REMARKS
B-1,B-2	18-W-10	808	702.6	Carlin 701CRD	115/1	1/2	#2	Set boiler for 200°F supply.

WATER CIRCULATING PUMPS

HVAC Contractor shall furnish and install centrifugal water circulating pumps as manufactured by ITT Bell & Gossett or equal by Armstrong or Taco. Pumps shall be bronze fitted with mechanical seals, unless indicated otherwise. Furnish with across-line magnetic starters with N-O-A switch, 120 Volt control transformers, built-in thermal overloads and two pairs of convertible auxiliary contacts. Pumps shall be aligned and adjusted by a trained service representative of the manufacturer. Power supply to motors will be 208V/3Ø-60 Hz.

PUMP NO.	MODEL NO.	GPM EACH	HEAD/PUMP IN FEET	MOTOR HP	RPM	REMARKS
P-1, P-1A	Series 60 2"A	77	36	1½	1750	Hot water pumps. One run, one standby.
P-2, P-2A	Series 60 2"A	51	37	1½	1750	Hot water pumps. One run, one standby.

CABINET UNIT HEATERS (C.U.H.)

Furnish and install cabinet unit heaters as manufactured by Trane, or approved equal. Motors shall be permanent split capacitor type and shall have built-in thermal overload protection. Unit output based on 200°F E.W.T., 60°F E.A.T. and 20°F water temperature drop. Provide throw-away filters with each unit. Cabinet enclosure shall be of 16-gauge steel with baked enamel finish. Color as selected by Architect. Aquastat and thermostat for each unit shall be furnished by Temperature Control Contractor. Model numbers and output as indicated below:

UNIT	MODEL NO.	MBH	CFM	GPM	MOTOR HP	VOLTS	PHASE	RPM	REMARKS
CUH-1	P-11-A0-04	42.6	400	3.75	1/30	115	1	1075	REMOTE T'STAT
CUH-2	H-A6-A1-02	21.8	200	2	1/60	115	1	1100	UNIT MTD T'STAT
CUH-3	P-11-A0-03	32.9	300	3	1/30	115	1	1100	UNIT MTD T.STAT

HOT WATER RADIATION

Furnish and install hot water radiation as manufactured by Sterling or equal by Trane or Vulcan. Enclosures to be of material and gauge as indicated below. Color selection by Architect. Heating element lengths as indicated on Plans. Extend cover wall to wall unless shown otherwise. Provide allen-head screw type access panel in cover for valves where required. Provide, as part of the enclosure, end caps. Full backplate with rubber gasket at wall for complete air seal. Provide factory return bend on 2-tier elements.

TYPE	DESCRIPTION
A	Versa-line style JVA-S sloping top, 20-inch enclosures height, 2⅜-inch mounting height, 14-gauge steel construction. Element shall be 2-tier, 1-1/4-inch copper tube with 4-1/4" X 4-1/4" X .020" aluminum fins, 40 fins/LF rated at 2150 BTUH/LF at 190°F A.W.T.
B	Versa-line style JVA-S sloping top, 20-inch enclosures height, 2⅜-inch mounting height, 14-gauge steel construction. Element shall be 1-tier, 1-1/4-inch copper tube with 3-1/8" X 4-1/4" X .025" aluminum fins, 32 fins/LF rated at 1330 BTUH/LF at 190°F A.W.T.
C	Versa-line style "V" (expanded metal enclosures), 8-inch enclosure height, 9 7/8-inch mounting height, 18-gauge C.R.S. Element shall be 1-tier, 1-1/4-inch copper tube mounting height, 18-gauge steel construction. Element shall be 1-tier, 1-1/4-inch copper tube with 4-1/4" X 4-1/4" X .020" aluminum fins, 40 fins/LF rated at 1260 BTUH/LF at 190°F with 4-1/4" X 4-1/4" X .020" aluminum fins, 40 fins/LF rated at 1260 BTUH/LF at 190°F A.W.T.
D	Versa-line style bare elements, 15-3/8-inch mounting height. Element shall be 2-tier, 1-1/4-inch copper tube with 4-1/4" X 4-1/4" X .020" aluminum fins, 40 fins/LF rated at 2090 BTUH/LF at 190°F A.W.T.

COIL SCHEDULE

Furnish and install water coils as manufactured by Trane, Carrier, McQuay or approved equal. Coils shall be constructed of aluminum fins mechanically bonded to 5/8-inch copper tubes with cast iron headers. Provide galvanized steel casings. Coils shall have working pressures of 200 PSIG at 220°F. Capacities shall be as listed below.

COIL NO.	SIZE	CFM	ROWS	TYP	HEATING EAT	LAT	EWT	LWT	MBH	GPM	MAX APD	MAX WPD	REMARKS
HWC-1	18"WX48"L	3,200	2	W	50°	127°	200°	180°	267.0	27	0.20"	1.4'	PF fins, turbs
HWC-2	12"WX42"L	1,800	2	W	50°	127°	200°	180°	150.0	15	0.18"	1.1'	PF fins, turbs, coil to be piped on end so inlet and outlet are at the top of the duct.
HWC-3,4,5	12"WX24"L	1,000	2	W	50°	129°	200°	180°	86.0	9	0.20"	0.3'	PF fins, turbs, coil to be piped on end so inlet and outlet are at the top of the duct.

FAN COIL UNIT SCHEDULE (FCU)

HVAC Contractor shall furnish and install a vertical fan coil unit as specified below in Trane or approved equal. Basic unit shall include chassis, coil, heavy-density, face-glass fiber insulation, air blockoffs around coil, removable fan board/drain pan assembly, auxiliary drain pan, fan(s), fan housing(s), motor and filter. Chassis of galvanized steel with flanged edges.

Cabinet shall have 18-gauge steel panels. Front and end panels to have channel-formed edges around entire perimeter. Front panels to have faced, heavy-density thermal and acoustical insulation over entire coil section. Front panels to be removable without tools, end panels removable. Top panels of galvanized steel, channel-formed, with recessed stamped integral discharge grille standard.

All cabinet parts to be cleaned, bonderized, phosphatized, and painted with light grey baked-on enamel finish as standard. Coils to be 5/8-inch seamless copper tubes mechanically bonded to configured aluminum fins with continuous fin collars and sleeved coil end supports, designed for a maximum working pressure of 300 PSIG and are burst tested at 450 PSIG minimum under water. Maximum entering water 250°F. Coils to have female sweat connections to accept 1-inch OD copper tubing.

Fan wheels to be centrifugal forward-curved and double-width. Fan wheels and housings corrosion resistant. Fan housings of formed sheet metal.

All motors to have integral thermal overload protection and start at 78 percent of rated voltage. Motors to operate satisfactorily at 90 percent of rated voltage on all speed settings and at 10 percent overvoltage without undue magnetic noise. Temperature rise by winding resistance method shall not exceed 60 C (shaded pole) and 50 C (psc) on high speed, and 65 C (shaded pole) and 55 C (psc) on reduced speeds.

Filters to be concealed from sight and removable from vertical models without displacing front panels. Filters to be throw-away type of woven glass fiber.

Unit to be provided with factory damper and operated with factory interlock to fan monitor. Damper blades to be 18-gauge steel, factory adjusted to close against polyurethane stop across entire blade length. Damper to be 25 percent with operator.

Factory-mounted electric operator to be run tested through full stroke with factory check of sealing.

Plastic extended motor oiler tubes to terminate beneath discharge grille of vertical cabinet.

UNIT	MODEL NO.	MBH	E.W.T.	L.W.T.	E.A.T.	L.A.T.	CFM	GPM	W.P.D.	VOLTS	PHASE	HP	REMARKS
FCH-1	B-13-A0-06	42.9	200°F	168	52.5	161	350	2.5	7.3FT	115	1Ø	1/20	Fan to be set to low speed. 25 percent OA damper with factory installed electric operator.

KICK SPACE HEATER

Furnish and install Kick Space Heater as manufactured by Mysom or approved equal. Unit shall be 4-inches high with a remote controller and a low-limit thermostat. Coil shall have a copper header.

UNIT	MODEL NAME	MBH	E.W.T.	L.W.T.	GPM	W.P.D.	MOTOR VOLTS	PHASE
KSP-1	Kick Space Fan Convector	7	200°F	186°F	1	1.06FT	110V	1Ø

ROOF EXHAUST FAN SCHEDULE (REF)

HVAC Contractor shall furnish and install roof exhaust fans as manufactured by Greenheck or approved equal. Fans to be downblast as indicated by model number. Fan shall be furnished with gravity backdraft damper, 12-inches high self-flashing aluminum roof curb, bird screen, factory-wired disconnect switch and cold weather belts. Provide magnetic starters with thermal overload protection for all 3-phase motors. Starters shall be furnished with H.O.A. switch and 120 Volt control transformer. Housing and Venturi inlet shall be constructed of spun aluminum. Fan shall be AMCA certified.

FAN	MODEL NO.	CFM	ESP	MOTOR HP	VOLTAGE	FAN RPM	DRIVE	REMARKS
REF-1	GB-8-4	590	3/8"	1/4	120-1Ø	1800	Belt	General exhaust
REF-2	GB-9-4	560	3/8"	1/4	120-1Ø	1395	Belt	General exhaust
REF-3	GB-8-4	725	3/8"	1/4	120-1Ø	1625	Belt	Toilet exhaust
REF-4	GB-8-4	850	3/8"	1/4	120-1Ø	1625	Belt	Toilet exhaust

IN-LINE EXHAUST FANS (IEF)

HVAC Contractor shall furnish and install in-line exhaust fans as manufactured by Greenheck or approved equal. Provide heavy gauge galvanized steel cabinet with duct flanges on inlet and discharge with removable side panel for service. Fan shall be aluminum, backward inclined, centrifype. Motors shall be high efficiency type. Bearings shall be permanently lubricated. Provide cold weather belts for belt driven model. Provide spring type hanging vibration isolation. Power shall be 120V-1Ø. Provide factory wired disconnect switch and thermal overload protection. Provide insulated housing and unit mounted variable speed control for direct drive models.

UNIT NUMBER	MODEL NUMBER	CFM	ESP	HP	RPM	DRIVE	REMARKS
IEF-1	BSQ-12-4	1000	1/2"	1/8	1860	Belt	

ELECTRIC UNIT HEATERS (EUH)

HVAC Contractor shall furnish and install electric unit heater as manufactured by Bekro. Equal by Singer may be submitted for approval. Horizontal type units shall have sheath finitube heating elements, overheat protection, adjustable louvers and controls as listed below. Vertical type units shall have metal sheath finitube heating elements, overheat protection, self-contained power relays and two stage heating control. All units shall be U.L. approved and labeled. All motors to have thermal overload protection. Furnish disconnect switches with all units. Voltage as listed below.

UNIT NO.	MODEL NO.	KW	BTUH	ELECTRICAL VOLTS	PHASE	AMPS	FAN DATA RPM	VOLT	PHASE	CFM	TEMP RISE	REMARKS
UH-1	HUH-520-8	5	17,065	208	3Ø	11.8	1450	208	3Ø	350	45°	Unit mounted thermostat.

CEILING HEAT FAN

The HVAC Contractor shall provide an electric automatic fan-forced air heater, as manufactured by Berko Electric or approved equal. Heaters shall be UL listed. The heater shall be designed for surface ceiling mounting. Provide remote line voltage thermostat.

The inner-frame assembly shall consist of a 20-gauge steel chassis on which are mounted the heating element, fan motor and blade,fan control and thermal cutout. The inner-frame assembly shall be completely pre-wired.

The heating element shall be guaranteed for five (5) years and shall be of non-glowing design consisting of a special resistance wire, enclosed in a steel sheath, to which steel plate fins are brazed. The element shall cover the entire air discharge area to ensure uniform heating of all discharge air.

The fan motor shall be impedence protected, permanently lubricated and with totally enclosed rotor. Fan control shall be bi-metallic, snap-action type and shall activate fan after the heating element reaches operating temperature, and continue to operate the fan after the thermostat is satisfied and until all heated air has been discharged. Thermal cutout shall be bi-metallic snap-action type designed to automatically shut off heater in the event of over heating and re-activate the heater when temperatures return to normal.

FAN	MODEL NO.	CFM	VOLTAGE	PH	WATTS	REMARKS
CHP-1,2,3,4,5	SCH-1012-W	65	120	1	500	Provide mounting box Model SCH-SM. Provide remote wall thermostat.

ELECTRIC BASEBOARD RADIATION

HVAC Contractor shall furnish and install electric baseboard radiation, as manufactured by Berko or approved equal. Radiation capacity shall be as listed below. Radiation shall be U.L. listed. Provide disconnect switch, unit mounted thermostat, thermal overload protection and junction box. Color to be determined by Architect. Mounting height shall be at 8" A.F.F. to bottom of casing.

TYPE	MODEL NO.	LENGTH	WATTS	VOLTS	PHASE	BTU/HR	REMARKS
1	MCB3-712-W	36"	750	120	1	2560	

DIFFUSERS AND REGISTERS

Furnish and install registers as manufactured by Titus, Price or Metalaire. Provide square to round transitions where required. Sizes on Plans are neck sizes. Consult Architect for color.

TYPE	MODEL NO.	ACCESSORIES	REMARKS
CER	350RL	Opposed blade damper	Steel construction
WER	350RL	Opposed blade damper	Steel construction
CSD	TDC-Fixed	Opposed blade damper	Aluminum construction
WSR	350RL	Opposed blade damper	Steel Construction

FIRE DAMPERS

Furnish and install fire dampers as manufactured by Ruskin or approved equal. Frame shall be constructed of 20-gauge, galvanized steel. Damper blades shall be constructed of 24-gauge with recessed interlocking blades. Dampers shall be suitable for horizontal or vertical mounting. Dampers shall be UL labeled per UL Standard 555 for 1-1/2 hours for use in walls of 2 hours or less fire rating. Provide fusible link with a melting point as required by local Codes. Dampers shall be installed per the manufacturer's instructions. Provide gasketed, hinged, insulated access panels in duct as required for proper access. Vertical and horizontally mounted fire dampers shall be of 95 percent minimum free area. FURNISH MODEL CFD OR CFDA CEILING FIRE DAMPER WHERE SHOWN. DAMPERS SHALL BE CLASSIFIED UNDER UL STANDARD 555 FOR USE IN ALL ROOF/CEILING ASSEMBLIES WITH FIRE RESISTANCE RATINGS OF 2 HOURS OR LESS. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.

HVAC SYMBOL LIST

- Rectangular or Round Air Duct (Plan View)
- Flexible Duct Connection
- Exhaust Register On
- Direction of Supply or Outside Air
- Direction of Return or Exhaust Air
- Hot Water Radiation. Shaded Area Indicates Active Heating Element, Unshaded Indicates Length of Cover.
- Existing Radiation to be removed
- Hot Water Supply Line
- Hot Water Return Line
- Air Vent (Manual or Automatic)
- Pressure Relief Valve
- Gate Valve
- Ball Valve
- Balancing Valve
- Drain Valve
- Check Valve
- Butterfly Valve
- Backflow Preventor
- Strainer W/Blow-Down-Valve
- OS&Y Valve
- Shut-Off Cock
- Control Valve
- 3-Way Temperature Modulating Valve
- In-Line Expansion Compensator
- Union
- Anchor
- Guides
- Direction of Fluid Flow
- Pipe Elbow Up
- Pipe Elbow Down
- Takeoff From Top of Main Pipe
- Takeoff From Bottom of Main Pipe
- Room Thermostat
- Thermometer
- Capped End of Pipe
- Flexible Connector
- Pressure Gauge
- Pressure Reducing Valve

HVAC ABBREVIATIONS LIST

MBH	Thousands of BTU/HR
T'STAT	Thermostat
HWS	Hot Water System
HWR	Hot Water Return
S&R	Supply and Return
FOS	Fuel Oil Supply
FOR	Fuel Oil Return
C	Common
N.O.	Normally Open (Valve)
N.C.	Normally Closed (Valve)
AFF	Above Finished Floor
BG	Below Grade
WP	Weather Proof
DB	Dry Bulb Temperature
WB	Wet Bulb Temperature
OA	Outside Air
RA	Return Air
SA	Supply Air
EXH	Exhaust
CFM	Cubic Feet Per Minute
GPM	Gallons Per Minute
GAL	Gallon
"WG"	Inches of Water, Gage (Pressure)
SP	Static Pressure
ESP	External Static Pressure
REQ'D	Required
VD	Volume Damper
MD	Motorized Damper
AD	Access Door
E.A.T.	Entering Air Temperature
EWT	Entering Water Temperature
LAT	Leaving Air Temperature
LWT	Leaving Water Temperature
APD	Air Pressure Drop
WPD	Water Pressure Drop
KEP	Kitchen Exhaust Fan
RMP	Roof Make-Up Fan
REP	Roof Exhaust Fan
UH	Unit Heater
IEP	Inline Exhaust Fan
CUH	Cabinet Unit Heater
RAD	Radiation

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CONSULTANTS:
MECHANICAL & ELECTRICAL:
STRUCTURAL:

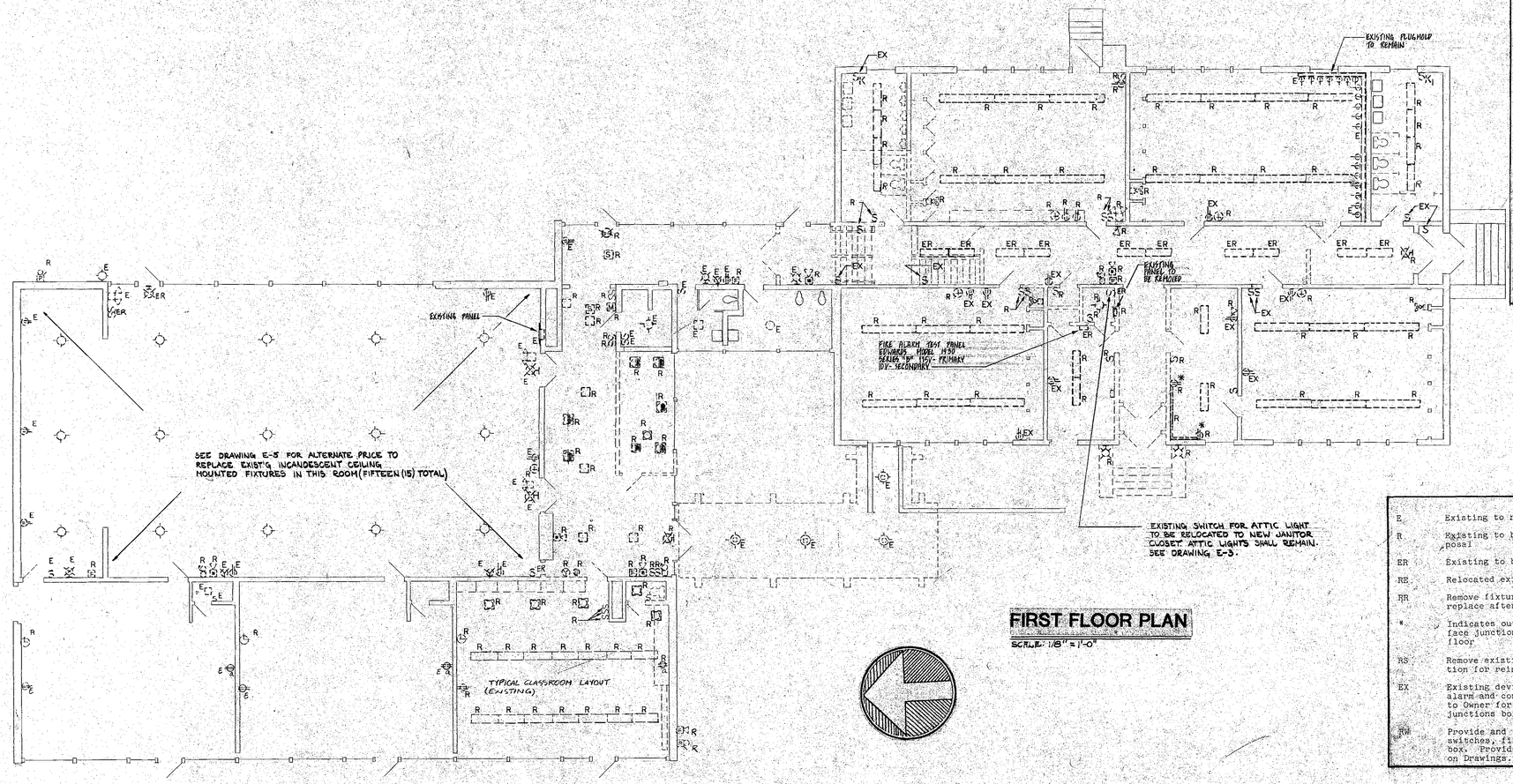
BURNHAM SCHOOL

HVAC SCHEDULES

SCALE: NONE
DRAWN BY: JRB
DATE: 4-1-83
REVISED

H-6

JOSEPH MERRITT & CO
#87280

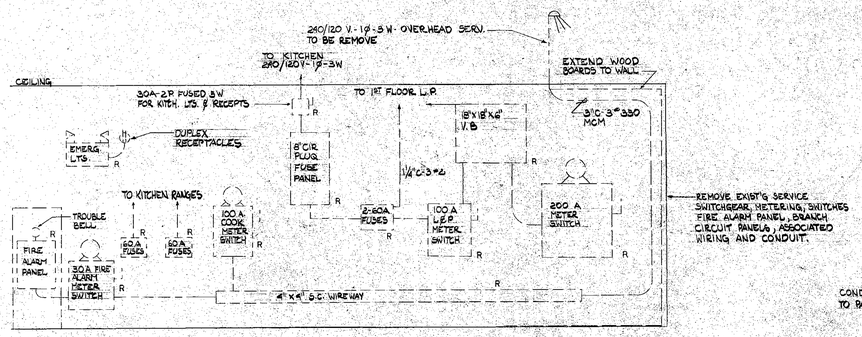


FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

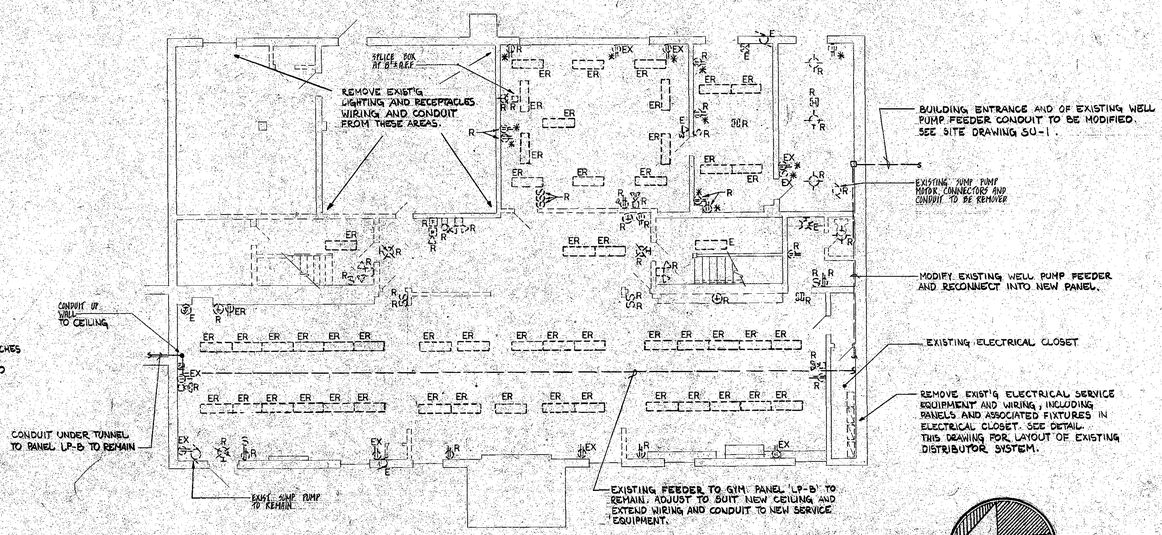
- Existing pendant or surface-mounted fluorescent light fixture.
- Existing surface or pendant-mounted incandescent light fixture.
- Existing manual fire alarm pull station.
- Existing fire alarm with flashing light and horn.
- Existing heat detector.
- Existing duplex receptacle.
- Existing special purpose receptacle.
- Existing light switch.
- Existing emergency light with heads.
- Existing exit light.
- Existing plugmold.
- Existing door hold open.
- Existing disconnect switch.
- Existing wall-mounted fixture.
- Existing power or light panel.
- Existing junction box.
- Existing clock.
- Existing program bell.
- Existing wall-mount speaker.
- Existing remote emergency light.
- Existing telephone outlet.
- Existing keyed switch.

E	Existing to remain
R	Existing to be removed and turned over to Owner for disposal
ER	Existing to be relocated
RE	Relocated existing
RR	Remove fixture during construction, clean, relamp and replace after construction
*	Indicates outlets are wall or floor-mounted on a surface junction box with 3/4-inch conduit down through floor.
RS	Remove existing light fixtufe and store during construction for reinstallation.
EX	Existing device (receptacle, speaker, switches, fire alarm and conductors shall be removed and turned over to Owner for disposal. Related conduits, backboxes and junctions boxes shall remain for future use.)
NEW	Provide and install new device (receptacle, speaker, switches, fire alarm in existing backbox or junction box. Provide and install new conductors as indicated on Drawings.



ELEVATION OF EXISTING METER BOARD AND DISTRIBUTION SYSTEM

NOT TO SCALE



BASEMENT PLAN

SCALE: 1/8" = 1'-0"

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STRUCTURAL: GIRARD & CO. ENGINEERS 40 WETHERSFIELD AVENUE HARTFORD, CT. 06114 (860) 524-1694

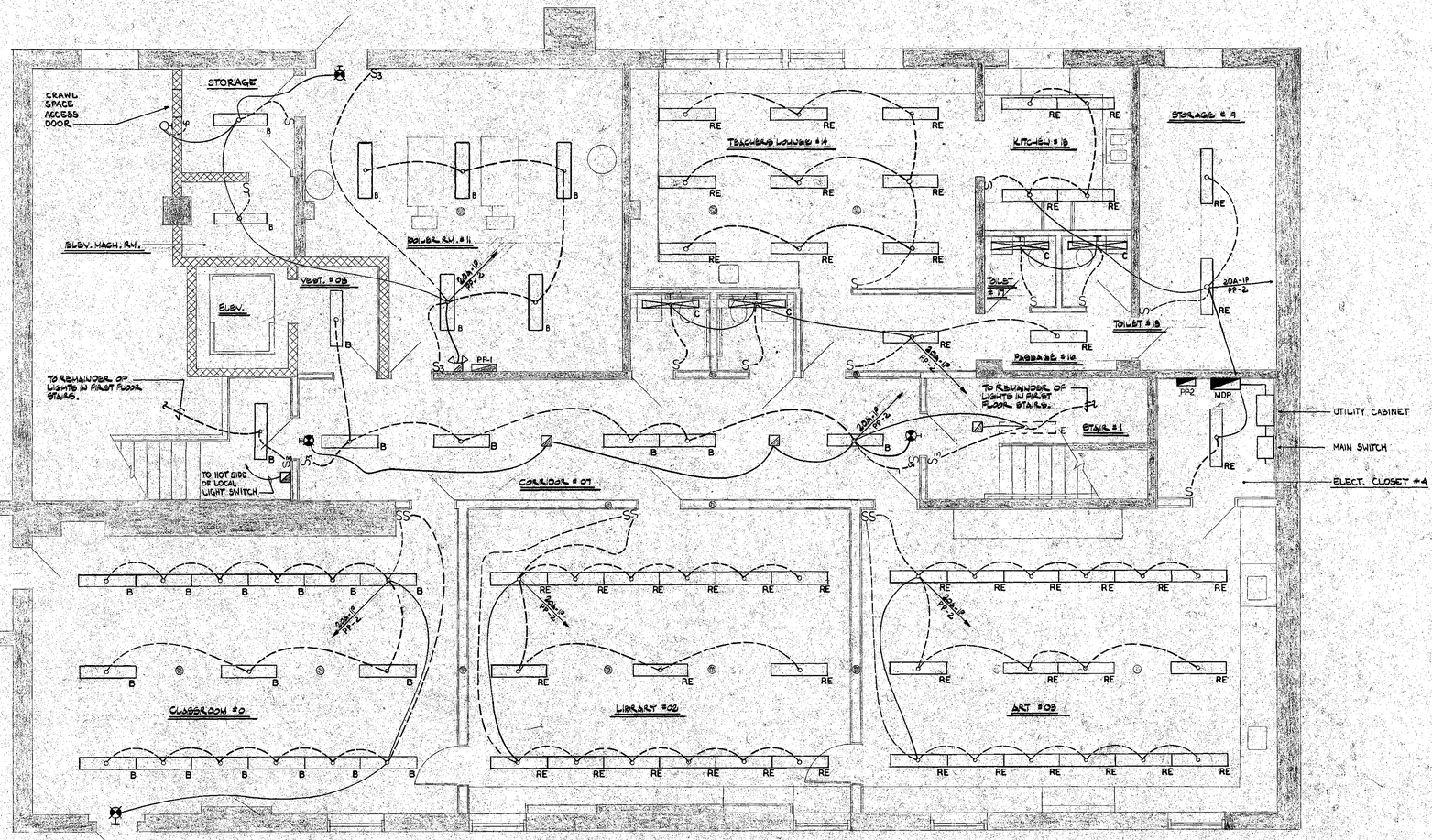
BURNHAM SCHOOL

ELECTRICAL DEMOLITION PLAN

BY: DRAWN J.J.
REVISED
SCALE: AS NOTED
DATE: 2-1-89

DE-1

#87280



BASEMENT FLOOR PLAN

1/4" = 1'-0"

NOTES:

1. Wiring and conduit shall be concealed where possible. New wiring for lighting and receptacles shall be run between joists above the ceiling tiles.
2. All relocated light fixtures shown shall be cleaned with new lamps installed before installation. All new lamps shall be energy saver type.
3. Where surface installation of conduit and wiring cannot be avoided, consult Architect for approval prior to installation.

General Notes

1. Electrical Trade Contractor shall maintain electrical continuity to any receptacles or lighting that remains for any of the following;
   (a) Only part of the wall or ceiling in area removed leaving devices that were on the same circuit as ones removed.
   (b) New receptacles or lighting installed in an existing wall or ceiling with existing devices.
2. Electrical Trade Contractor shall locate new or relocated light fixtures, speakers, flashing fire alarm strobe, smoke detectors, heat detectors, emergency lighting and exit lights with architectural reflected ceiling plans AND INTERIOR ELEVATIONS.
3. Electrical Trade Contractor shall provide and install junction boxes, conduit and conductors as required to extend existing circuits to new or relocated lighting, receptacles, fire alarm.

E	Existing to remain
R	Existing to be removed and turned over to Owner for disposal
ER	Existing to be relocated
RE	Relocated existing
RR	Remove fixture during construction, clean, relamp and replace after construction
*	Indicates outlets are wall or floor-mounted on a surface junction box with 3/4-inch conduit down through floor
RS	Remove existing light fixture and store during construction for reinstallation.
EX	Existing device (receptacle, speaker, switches, fire alarm and conductors shall be removed and turned over to Owner for disposal. Related conduits, backboxes and junctions boxes shall remain for future use.)
RW	Provide and install new device (receptacle, speaker, switches, fire alarm in existing backbox or junction box. Provide and install new conductors as indicated on Drawings.

LIGHTING FIXTURE SCHEDULE

1. All fluorescent lamps shall be warm white, rapid-start, equal to Sylvania, General Electric or Westinghouse.
2. All lighting fixtures shall be 120 Volt, unless otherwise noted, UL approved with all necessary adjustable hangers, brackets, clamps, yokes, stems or pendants as required.
3. All fluorescent lamp ballasts shall be SLH "P" CBM/ETL UL approved.
4. All incandescent lamps shall be 130 Volt long-life.
5. Refer to Architectural Drawings for specific locations, details, arrangements, mounting heights, reflected ceiling plan, construction, etc. All colors and finishes shall be selected by the Architect.
6. Refer to Electrical Specifications for further details.

TYPE	MAKE AND DESCRIPTION	LAMP
A	Pendant-mounted direct-indirect fluorescent fixture with four (4') foot lamps and acrylic lens on bottom shielding. Equal to Miller System 800 #VS-2332-04-120V, eight (8') foot or 16-foot length unit, energy saving ballast.	4-F34-RS
	Alternate Type "A":	4-F34-RS
	Pendant-mounted direct-indirect continuous row fluorescent fixture, 6-1/2" x 8" wide with two (2) rows of four (4') foot lamps, blade baffles, 8-foot, 12-foot or 16-foot lengths. Energy saving ballast. Equal to Litecontrol Supermod-II #P-8/D-86N24RS.	
B	Surface-mounted wraparound low brightness fluorescent fixture (4'-0" x 10-15/16" x 3-1/16"). Extruded refractor of clear acrylic prismatic lens with energy saving ballast. Equal to Miller Indigo 2, Catalog #DA-2101-04-120V.	2-F34-RS
C	Wall-mounted 6" x 6", 4-foot, 6-foot, 8-foot or 12-foot length rectangular, softshine fluorescent fixture, one (1) piece extruded aluminum housing, linear prismatic virgin acrylic with 15% DR acrylic opalic lens with energy saving ballast. Equal to peerless #IL9-101201-120V.	2-F34-RS
D	Surface-mounted up/down two (2) lamp, 6" x 6" fluorescent fixture with diffuser or down portion. Equal to Litecontrol MOD-66-II #W-ID-66N-24RS-XA with energy saving ballast.	2-F34-RS
E	Recessed 2' x 2' fluorescent troffer with acrylic prismatic lens. Equal to Williams #EPG-S262-RWKA110-120 with energy saving ballast.	2-F34-U
F	Wall or ceiling mounted linear, direct, 2-lamp fluorescent fixture with blade baffle. Equal to Litecontrol MOD-66-II, #W-D-66N-24RS. 2-foot, 3-foot, 4-foot, 6-foot or 8-foot with energy saving ballast.	2-F34-RS
G	Surface-mounted compact fluorescent (PL) fixture with round drum of injection molded acropal, black canopy with snap-on opal diffuser. Equal to Prescolite #9424-13.	1-13W-PL
H	Alternate "H" - Surface-mounted 175 Watt metal halide (HID) light fixture with extended aluminum housing and door, tempered prismatic glass-gasketed lens, positive screws. Fixture shall be furnished with emergency mini-can Quartz socket and 150 Watt Quartz lamp which shall be on only until HID lamp restrikes. Equal to Devoe #D13-175SMH-ES-120.	175W Super Metal Halide
I	Ceiling-mounted incandescent fixture with durable spun aluminum cylinder, cast aluminum fittings and baffle. Equal to Prescolite #9340.	1-75W-R-30
J	Exterior wall-mounted incandescent fixture with top-hung cast wall lantern. Mosaic-patterned acrylic DR panels. Equal to Progren #P5665.	1-100W-A19
	Self-contained emergency exit sign, surface, ceiling or end mounting with single or double face as shown. Equal to Dual-Lite Exqulsite Series, white housing with red letters.	Included
	Self-contained emergency light fixture, 9" x 9" square, surface/semi-recessed mounted. Equal to Dual-Lite Spectron Series, Lite Series I #ESS-I-SRM.	Included
	Self-contained emergency light fixture with dual head, surface-mounted. Equal to Dual-Lite Spectron Series, Lumenette Series S1 #ML-2.	Included

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STRUCTURAL: GIRARD & CO. ENGINEERS 40 WETHERSFIELD AVENUE HARTFORD, Ct. 06114 (203) 524-1394

BURNHAM SCHOOL BRIDGEWATER

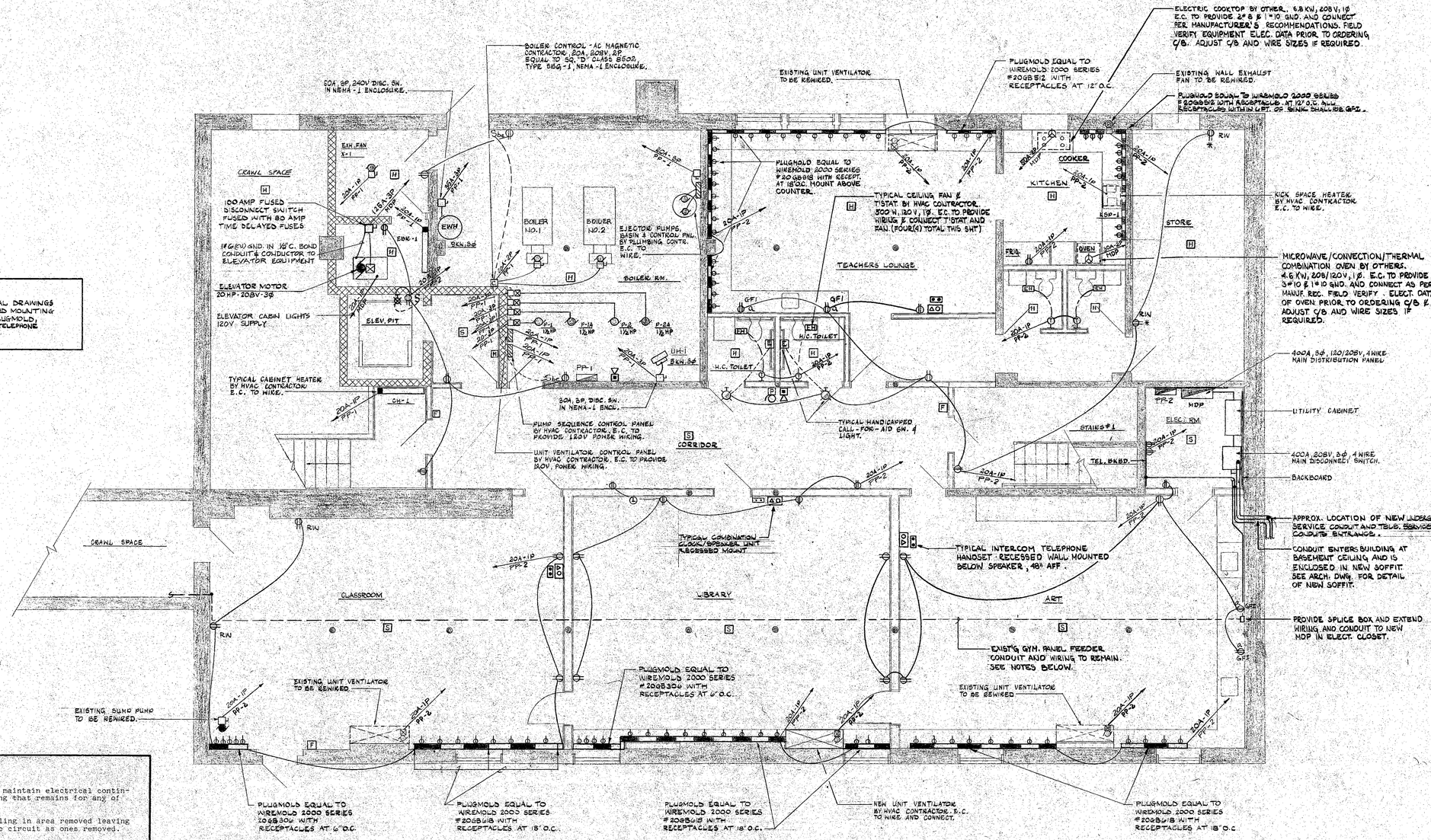
BASEMENT FLOOR PLAN-LIGHTING

DRAWN BY J.J.
REVISED
SCALE 1/4"=1'-0"
DATE 2-1-88

E-1

JOSEPH MERRITT & CO. A.S. 1-8-88

#87280



NOTE:

SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND MOUNTING HEIGHTS OF ALL PLUGMOLD, CLOCKS, SPEAKERS, TELEPHONE HANDSETS.

General Notes

1. Electrical Trade Contractor shall maintain electrical continuity to any receptacles or lighting that remains for any of the following;
   (a) Only part of the wall or ceiling in area removed leaving devices that were on the same circuit as ones removed.
   (b) New receptacles or lighting installed in an existing wall or ceiling with existing devices.
2. Electrical Trade Contractor shall locate new or relocated light fixtures, speakers, flashing fire alarm strobe, smoke detectors, heat detectors, emergency lighting and exit lights with architectural reflected ceiling plans, AND INTERIOR ELEVATIONS.
3. Electrical Trade Contractor shall provide and install junction boxes, conduit and conductors as required to extend existing circuits to new or relocated lighting, receptacles, fire alarm.

E	Existing to remain
R	Existing to be removed and turned over to Owner for disposal
ER	Existing to be relocated
RE	Relocated existing
RR	Remove fixture during construction, clean, relamp and replace after construction
*	Indicates outlets are wall or floor-mounted on a surface junction box with 3/4-inch conduit down through floor
RS	Remove existing light fixture and store during construction for reinstallation.
EX	Existing device (receptacle, speaker, switches, fire alarm and conductors shall be removed and turned over to Owner for disposal. Related conduits, backboxes and junctions boxes shall remain for future use.)
RW	Provide and install new device (receptacle, speaker, switcher, fire alarm in existing backbox or junction box. Provide and install new conductors as indicated on Drawings.

NOTES (EXISTING GYM. PANEL FEEDER)

1. THE EXISTING GYM. PANEL CONDUIT SHALL BE ADJUSTED FOR INSTALLATION OF NEW CEILING TILES, AND READJUSTED TIGHT TO UNDERSIDE OF NEW TILES.
2. EXTEND FEEDER CONDUCTORS AND CONDUIT TO NEW ELECT. PANEL. SPLICE BOX AND ADDITIONAL CONDUIT SHALL BE ENCLOSED IN NEW SOFFIT. (SEE ARCH. DWG. FOR DETAILS). AN ACCESS TO SPLICE BOX SHALL BE PROVIDED BY ARCHITECTS.

BASEMENT FLOOR PLAN

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

BURNHAM SCHOOL

C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
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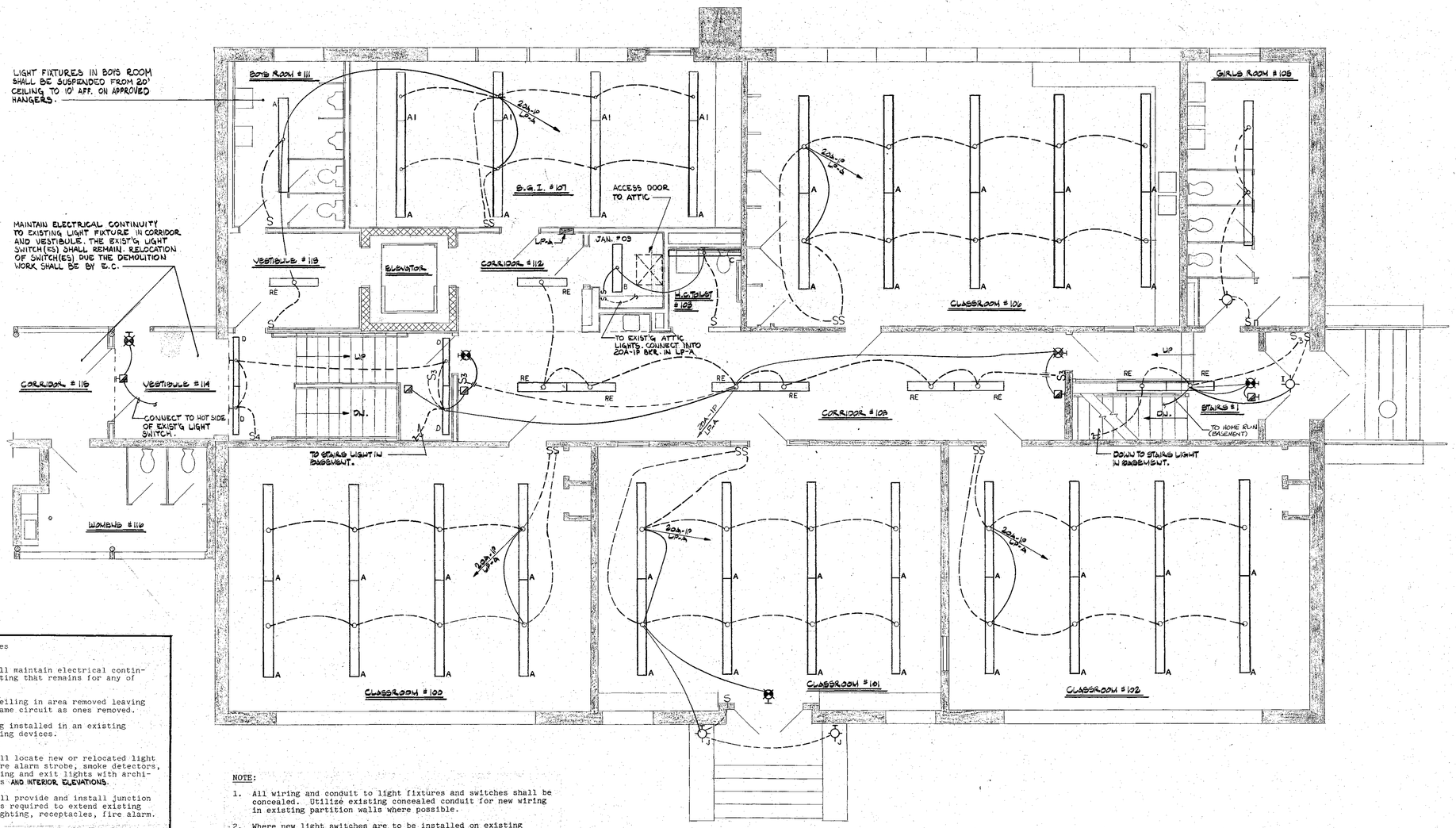
STRUCTURAL: GIRARD & CO. ENGINEERS 40 WATERHEFIELD AVENUE HARTFORD, CT. 06114 (203) 524-1164

BASEMENT FLOOR PLAN-POWER

SCALE 1/4"=1'-0" DRAWN BY J.J.
DATE 2-1-89 REVISED

E-2

JOSEPH MERRITT & CO A.S. 1-13-88



NOTE:

1. All wiring and conduit to light fixtures and switches shall be concealed. Utilize existing concealed conduit for new wiring in existing partition walls where possible.
2. Where new light switches are to be installed on existing plaster wall, cutting and patching to conceal wiring and recess switch boxes, will be by the General Contractor.

FIRST FLOOR PART PLAN

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

General Notes

1. Electrical Trade Contractor shall maintain electrical continuity to any receptacles or lighting that remains for any of the following;
   (a) Only part of the wall or ceiling in area removed leaving devices that were on the same circuit as ones removed.
   (b) New receptacles or lighting installed in an existing wall or ceiling with existing devices.
2. Electrical Trade Contractor shall locate new or relocated light fixtures, speakers, flashing fire alarm strobe, smoke detectors, heat detectors, emergency lighting and exit lights with architectural reflected ceiling plans AND INTERIOR ELEVATIONS.
3. Electrical Trade Contractor shall provide and install junction boxes, conduit and conductors as required to extend existing circuits to new or relocated lighting, receptacles, fire alarm.

E	Existing to remain
R	Existing to be removed and turned over to Owner for disposal
ER	Existing to be relocated
RE	Relocated existing
RR	Remove fixture during construction, clean, relamp and replace after construction
*	Indicates outlets are wall or floor-mounted on a surface junction box with 3/4-inch conduit down through floor
RS	Remove existing light fixture and store during construction for reinstallation.
EX	Existing device (receptacle, speaker, switches, fire alarm and conductors shall be removed and turned over to Owner for disposal. Related conduits, backboxes and junctions boxes shall remain for future use.)
RW	Provide and install new device (receptacle, speaker, switches, fire alarm in existing backbox or junction box. Provide and install new conductors as indicated on Drawings.

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STRUCTURAL: GIRARD & CO. ENGINEERS
40 WETHERSFIELD AVENUE HARTFORD, CT. 06114 (203) 524-1694

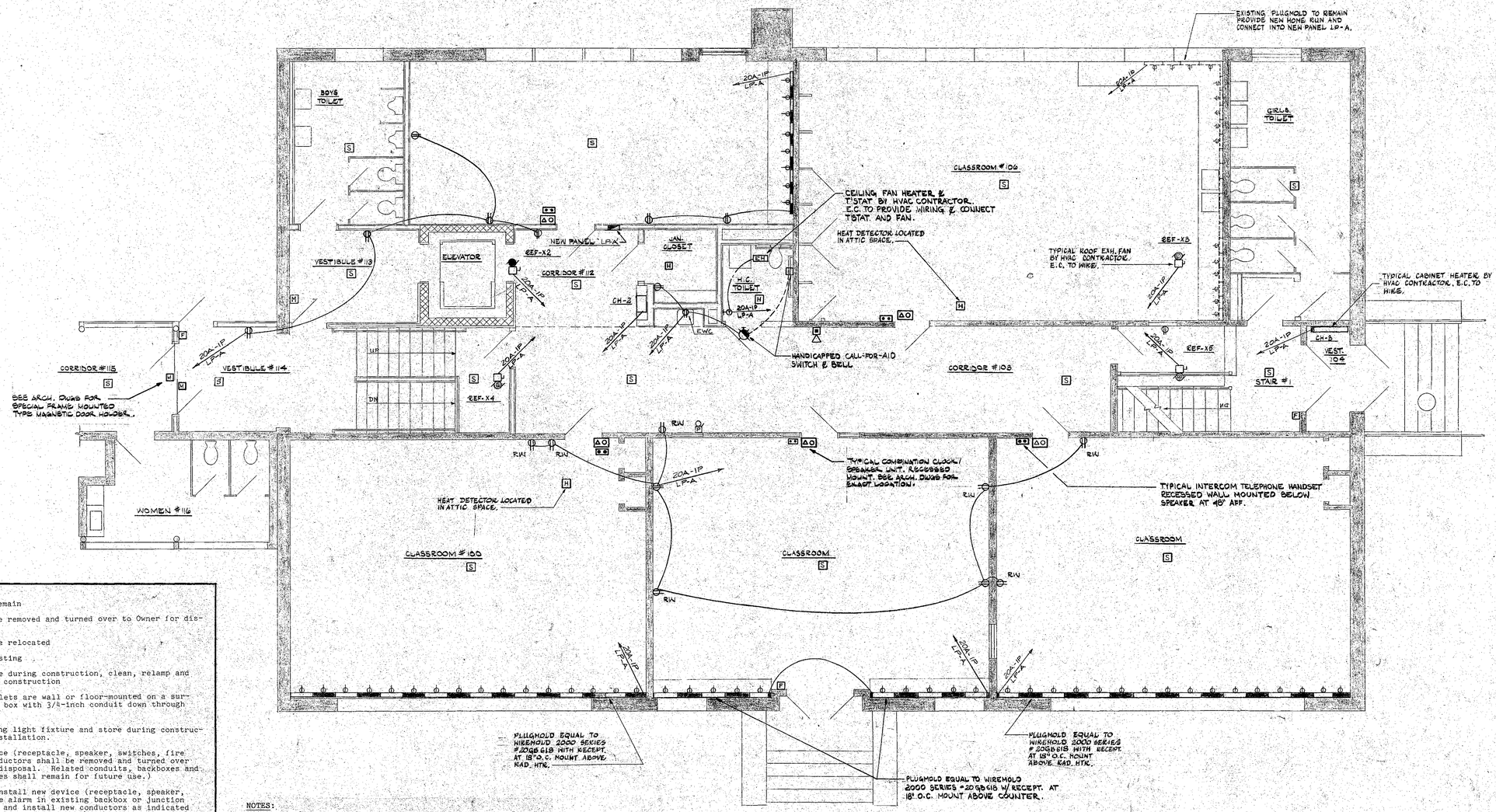
BURNHAM SCHOOL BRIDGEWATER

FIRST FLOOR PART PLAN-LIGHTING

SCALE 1/4"=1'-0"
DATE 2-1-89
DRAWN BY J.J.
REVISED

E-3

A.S. 1-13-88
#87280



FIRST FLOOR PART PLAN

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

E	Existing to remain
R	Existing to be removed and turned over to Owner for disposal
ER	Existing to be relocated
RE	Relocated existing
RR	Remove fixture during construction, clean, relamp and replace after construction
*	Indicates outlets are wall or floor-mounted on a surface junction box with 3/4-inch conduit down through floor
RS	Remove existing light fixture and store during construction for reinstallation.
EX	Existing device (receptacle, speaker, switches, fire alarm and conductors shall be removed and turned over to Owner for disposal. Related conduits, backboxes and junctions boxes shall remain for future use.)
RW	Provide and install new device (receptacle, speaker, switches, fire alarm in existing backbox or junction box. Provide and install new conductors as indicated on Drawings.

General Notes

1. Electrical Trade Contractor shall maintain electrical continuity to any receptacles or lighting that remains for any of the following;
   (a) Only part of the wall or ceiling in area removed leaving devices that were on the same circuit as ones removed.
   (b) New receptacles or lighting installed in an existing wall or ceiling with existing devices.
2. Electrical Trade Contractor shall locate new or relocated light fixtures, speakers, flashing fire alarm strobe, smoke detectors, heat detectors, emergency lighting and exit lights with architectural reflected ceiling plans AND INTERIOR ELEVATIONS.
3. Electrical Trade Contractor shall provide and install junction boxes, conduit and conductors as required to extend existing circuits to new or relocated lighting, receptacles, fire alarm.

NOTES:

1. All wiring and conduit on this floor shall be concealed in ceiling or plaster wall, except for Plugmold.
2. Where new clocks, speakers, bells, handsets etc., are to be installed on existing plaster wall, cutting and patching of existing plaster wall (to conceal wiring, conduit and boxes) will be by the General Contractor.

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CONSULTANTS:
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STRUCTURAL: GIRARD & CO. ENGINEERS 40 WETHERSFIELD AVENUE HARTFORD, CT. 06114 [203] 524-1594

BURNHAM SCHOOL BRIDGEWATER

FIRST FLOOR PART PLAN-POWER
SCALE 1/4"=1'-0" DRAWN BY J.L.L.
DATE 2-1-89 REVISED

E-4

JOSEPH MERRITT & CO. A.S. 1-13-88

87230

E	Existing to remain
R	Existing to be removed and turned over to Owner for disposal
ER	Existing to be relocated
RE	Relocated existing
RR	Remove fixture during construction, clean, relamp and replace after construction
*	Indicates outlets are wall or floor-mounted on a surface junction box with 3/4-inch conduit down through floor
RS	Remove existing light fixture and store during construction for reinstallation.
EX	Existing device (receptacle, speaker, switches, fire alarm and conductors shall be removed and turned over to Owner for disposal. Related conduits, backboxes and junctions boxes shall remain for future use.)
RW	Provide and install new device (receptacle, speaker, switches, fire alarm in existing backbox or junction box. Provide and install new conductors as indicated on Drawings.

General Notes

1. Electrical Trade Contractor shall maintain electrical continuity to any receptacles or lighting that remains for any of the following;
   (a) Only part of the wall or ceiling in area removed leaving devices that were on the same circuit as ones removed.
   (b) New receptacles or lighting installed in an existing wall or ceiling with existing devices; AND INTERIOR ELEVATION
2. Electrical Trade Contractor shall locate new or relocated light fixtures, speakers, flashing fire alarm strobe, smoke detectors, heat detectors, emergency lighting and exit lights with architectural reflected ceiling plans.
3. Electrical Trade Contractor shall provide and install junction boxes, conduit and conductors as required to extend existing circuits to new or relocated lighting, receptacles, fire alarm.

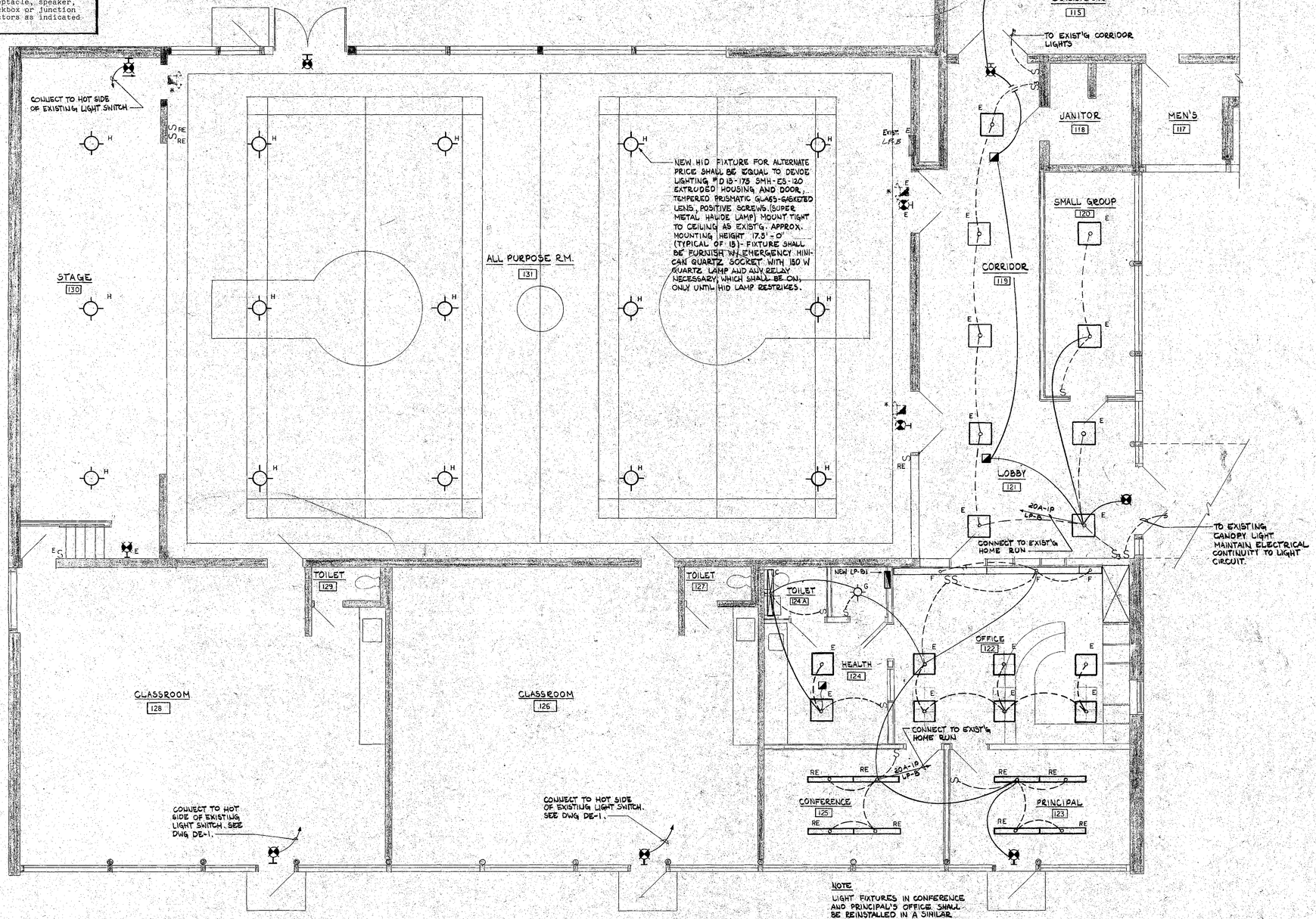
ALTERNATE PRICE

ALL PURPOSE ROOM AND STAGE

1. Provide an alternate price for replacing fifteen (15) existing 300 W incandescent light fixtures with fifteen (15) new 175 W metal halide (HID) fixtures.
2. The new HID fixtures shall be installed at the same locations and in a similar manner as the existing.
3. The existing circuits and switches shall remain.

NOTE: ALL PURPOSE ROOM

PROVIDE GUARD OVER ALL EXISTING EMERGENCY LIGHT FIXTURE HEADS IN ALL PURPOSE ROOM. SUBMIT GUARD DESIGN FOR ENGINEERS APPROVAL.



NOTE

LIGHT FIXTURES IN CONFERENCE AND PRINCIPAL'S OFFICE SHALL BE REINSTALLED IN A SIMILAR MANNER AS BEFORE.

FIRST FLOOR PART PLAN

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

BURNHAM SCHOOL BRIDGEWATER

C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
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STRUCTURAL: GIRARD & CO. ENGINEERS 40 WETHERSFIELD AVENUE HARTFORD, CT. 06114 (203) 524-1524

FIRST FLOOR PART PLAN-LIGHTING

DRAWN BY J.J.L.
SCALE 1/4" = 1'-0"
DATE 2-1-89
REVISED

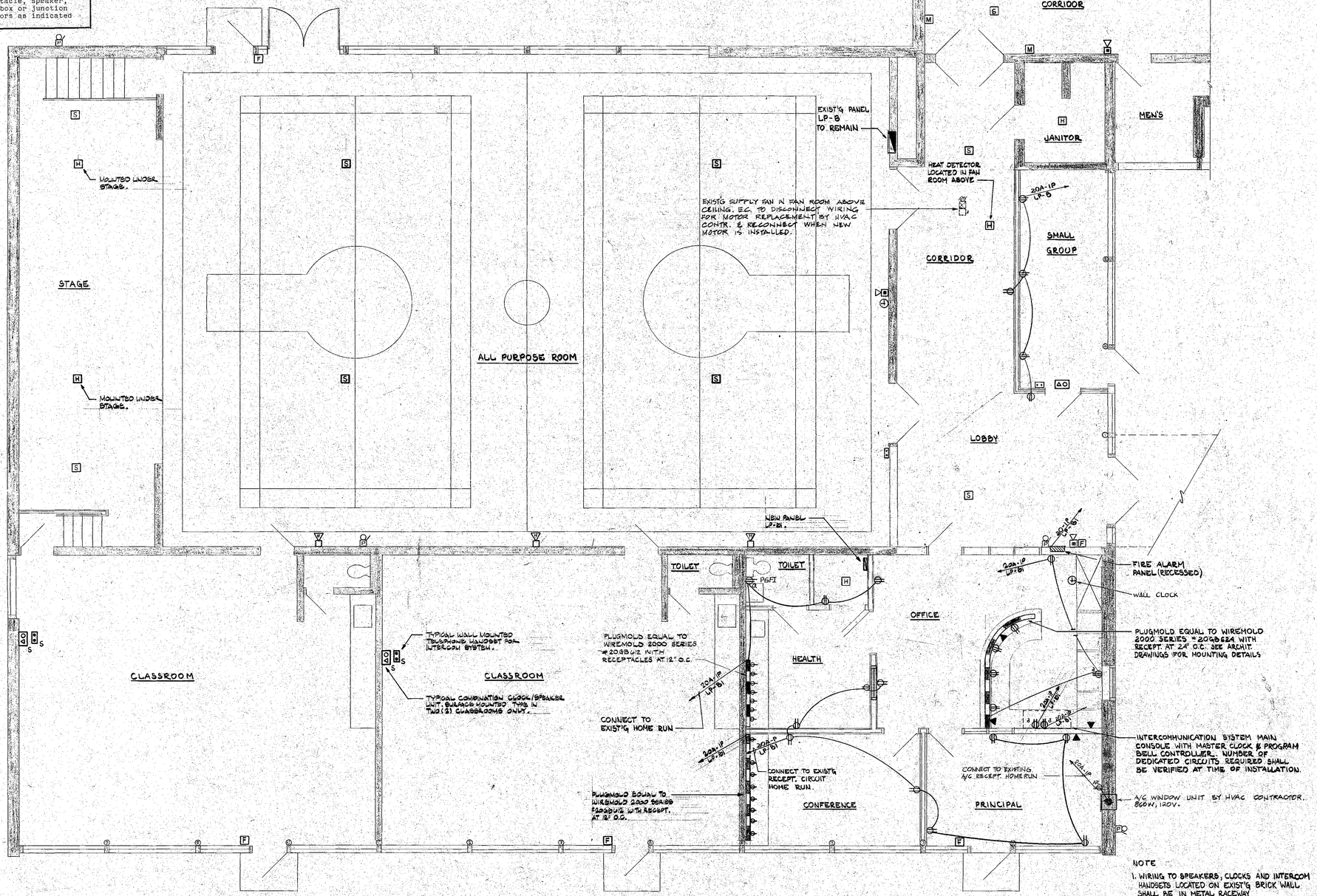
E-5

E	Existing to remain
R	Existing to be removed and turned over to Owner for disposal
ER	Existing to be relocated
RE	Relocated existing
RR	Remove fixture during construction, clean, relamp and replace after construction
*	Indicates outlets are wall or floor-mounted on a surface junction box with 3/4-inch conduit down through floor
RS	Remove existing light fixture and store during construction for reinstallation.
EX	Existing device (receptacle, speaker, switches, fire alarm and conductors shall be removed and turned over to Owner for disposal. Related conduits, backboxes and junctions boxes shall remain for future use.)
RW	Provide and install new device (receptacle, speaker, switches, fire alarm in existing backbox or junction box. Provide and install new conductors as indicated on Drawings.

General Notes

1. Electrical Trade Contractor shall maintain electrical continuity to any receptacles on lighting that remains for any of the following;
   (a) Only part of the wall or ceiling in area removed leaving devices that were on the same circuit as ones removed.
   (b) New receptacles or lighting installed in an existing wall or ceiling with existing devices.
2. Electrical Trade Contractor shall locate new or relocated light fixtures, speakers, flashing fire alarm strobe, smoke detectors, heat detectors, emergency lighting and exit lights with architectural reflected ceiling plans AND INTERIOR ELEVATIONS.
3. Electrical Trade Contractor shall provide and install junction boxes, conduit and conductors as required to extend existing circuits to new or relocated lighting, receptacles, fire alarm.

NOTES
1. THE E.C. SHALL REARRANGE THE EXIST'G LIGHTING AND RECEPTACLE CIRCUITS IN PANEL LP-B TO ACCOMMODATE THE NEW CIRCUITS SHOWN.
2. REMOVE REDUNDANT WIRING BACK TO EXISTING PANEL LP-B AND UPDATE PANEL SCHEDULE TO REFLECT NEW CIRCUIT.



NOTE
1. WIRING TO SPEAKERS, CLOCKS AND INTERCOM HANDSETS LOCATED ON EXIST'G BRICK WALL SHALL BE IN METAL RACEWAY

FIRST FLOOR PART PLAN

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

C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
7 SOUTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 233-8626

BURTON & VANHOUTEN ENGINEERS INC.
10 NORTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 236-2266

GIRARD & CO. ENGINEERS
40 WETHERSFIELD AVENUE HARTFORD, CT. 06114 (203) 224-1284

CONSULTANTS:
MECHANICAL & ELECTRICAL:
STRUCTURAL:

FIRST FLOOR PART PLAN-POWER

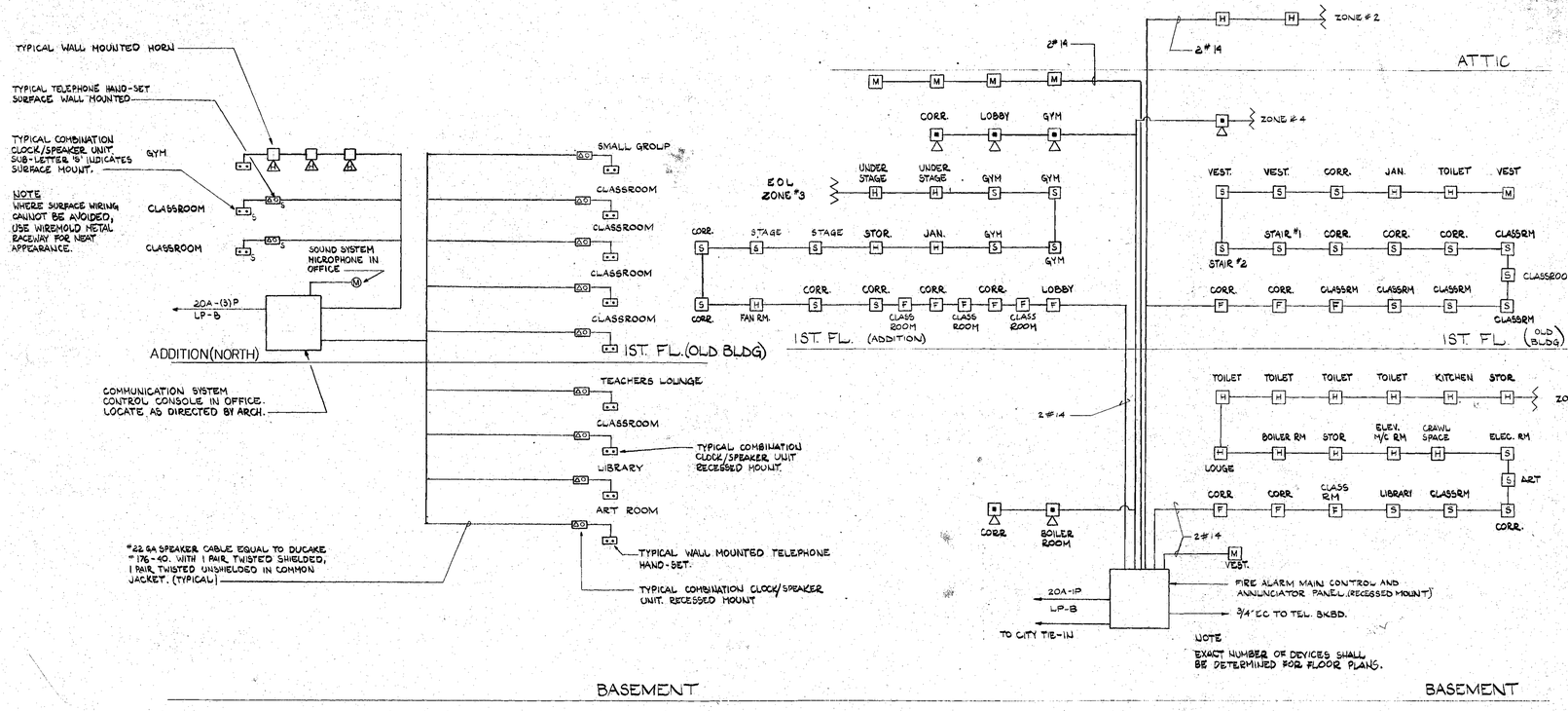
DRAWN BY:
REVISED
SCALE 1/4" = 1'-0"
DATE 2-1-89

E-6

BURNHAM SCHOOL

ELECTRICAL LEGEND

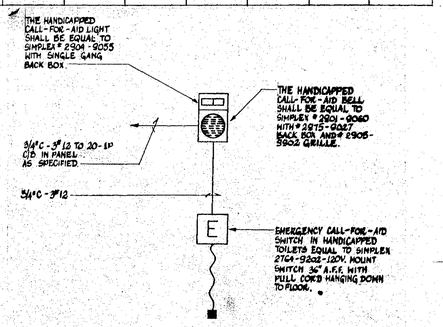
	Recessed downlight fixture; subletter indicates fixture type.
	Surface-mounted light fixture; subletter indicates fixture type.
H	Wall-mounted light fixture; subletter indicates fixture type.
	Typical ceiling-mounted, fluorescent light fixture; subletter indicates fixture type.
	Fluorescent wall-mounted fixture; subletter indicates fixture type.
EXIT H	Ceiling or wall-mounted, self-contained exit sign with directional arrows as indicated on Plans.
EXIT H	Ceiling or wall-mounted exit sign with directional arrows as indicated on Plans.
	Ceiling or wall-mounted, self-contained emergency light unit; fixture shall monitor major lighting circuit in area.
S	Single-pole switch; mount at 48" AFF.
S_2	Double-pole switch; mount at 48" AFF.
S_3	3-way switch; mount at 48" AFF.
S_4	4-way switch; mount at 48" AFF.
S_T	Single-pole switch with thermal overload protection; mount at 48" AFF.
S_P	Single-pole switch and pilot light; mount at 48" AFF.
SK	Keyed, switch.
S_{Be}	Boiler emergency switch; mount at 48" AFF.
S_D	Single-pole dimmer switch; mount at 48" AFF.
$\Phi_{a,b}$	Duplex receptacle; mount at 18" AFF. Subletter "a" indicates receptacle to be mounted 6" above counter top or 48" AFF. Subletter "b" indicates mounted in architectural millwork. Coordinate installation with Architect.
Φ_{WP}	Weatherproof, duplex receptacle; mount at 24" AFG.
	Single receptacle; mount at 18" AFF.
Φ_{30A}	Special-purpose outlet. Amperage and voltage as indicated on Plans. Verify NEMA configuration with equipment manufacturer.
	Surface plugmold with outlets as indicated on Plans, mounted at 18" AFF, unless otherwise noted.
TV	Television outlet; mount at 18" AFF.
F	Manual fire alarm pull station; mount at 48" AFF.
	Fire alarm audio/visual unit; mount at 7'-6" AFF. (COORDINATE W/ ARCH. DWGS.)
H	Automatic fire alarm heat detector (135 degrees F). Heat detectors mounted in boiler rooms shall be 200 degrees F.
S	Automatic fire alarm smoke detector.
M	Fire alarm magnetic door hold device.
DS	Duct smoke fire alarm detector.
F	Master fire alarm pull box; mount at 48" AFF.
	Remote fire alarm flashing strobe light.
S	Ceiling-mounted, sound system speaker.
	Wall-mounted sound system speaker at 7'-6" AFF; subletter "RA" indicates radial horn speaker. (COORDINATE W/ ARCH. DWGS.)
VC	Sound system volume controller; mount at 48" AFF.
$M_{F,W}$	Sound system microphone. Subletter "F" indicates floor-mounted. Subletter "W" indicates wall-mounted at 18" AFF.
	PA/sound system handset; mount at 48" AFF.
	Wall clock with hanger type outlet mounted at ±7'-6" AFF. COORDINATE W/ARCH. DWGS.)
P	Program bell; mount at 7'-6" AFF.
E	Emergency call bell mounted at 7'-6" AFF.
	Bell pushbutton mounted at 48" AFF.
E	Emergency call switch, mounted at 48" AFF.
———	Schematic power wiring. 3/4" conduit, 2 #12 and 1 #12 ground, unless otherwise noted.
- - - - -	Schematic switching circuit.
— - —	Schematic AC or DC control circuit.
—EM—	Schematic emergency AC or DC wiring. 3/4" conduit, 2 #10 and 1 #10 ground, unless otherwise noted.
—NL—	Schematic night-light circuit. 3/4" conduit, 2 #10 and 1 #10 ground, unless otherwise noted.
	Home run. 3/4" conduit, 2 #12 and 1 #12 ground, unless otherwise noted. NOTE: Home run shall be from first electrical device backbox in circuit to electrical panel.
	Electrical ground.
	Electrical panel, 480/277 Volt.
	Electrical panel, 120/208 Volt.
	Special-purpose electrical panel or equipment.
T	Electrical power transformer.
	Motor controller.
	Disconnect switch by Mechanical Contractor; wired by Electrical Contractor.
F	Disconnect switch with appropriate HP ratings.
	Electric motor.
J	Junction box, according to NEC requirements.
C	Relay or contactor, complete with NEMA enclosure.
$\blacktriangleright_{W,P}$	Telephone outlet, ±18" with backbox and empty conduit, including fish wire, according to telephone roughing in and pull box schedule. Subletter "W" indicates wall-mounted at ±48" AFF. Subletter "P" indicates pay phone; mount at ±48" AFF, unless otherwise noted.



COMMUNICATION SYSTEM RISER

N.T.S.

PANEL SCHEDULE							
PANEL	VOLTAGE	PHASE	SIZE	MAIN C/B	C/B ACTIVE	C/B SPARE	C/B SPACE
MDP	120/208	3 4 WIRE	400A 42 CIR.	MLO	1-200A-2P 3-100A-3P 1-125A-3P 1-100A-2P 1-50A-2P 1-30A-2P		
PP-1	120/208	3 4 WIRE	225A 42 CIR.	MLO	5-20A-1P 1-20A-2P 1-35A-3P 6-20A-3P	5-20A-1P	3-20A-1P
LP-A	120/208	3 4 WIRE	225A 42 CIR.	100A-3P	23-20A-1P	7-20A-1P	12-20A-1P
PP-2	120/208	3 4 WIRE	100A 30 CIR	MLO	25-20A-1P	5-20A-1P	
LP-B1	120/208	1 3 WIRE	100 A 24 CIR	70A-2P	7-20A-1P	5-20A-1P	12-20A

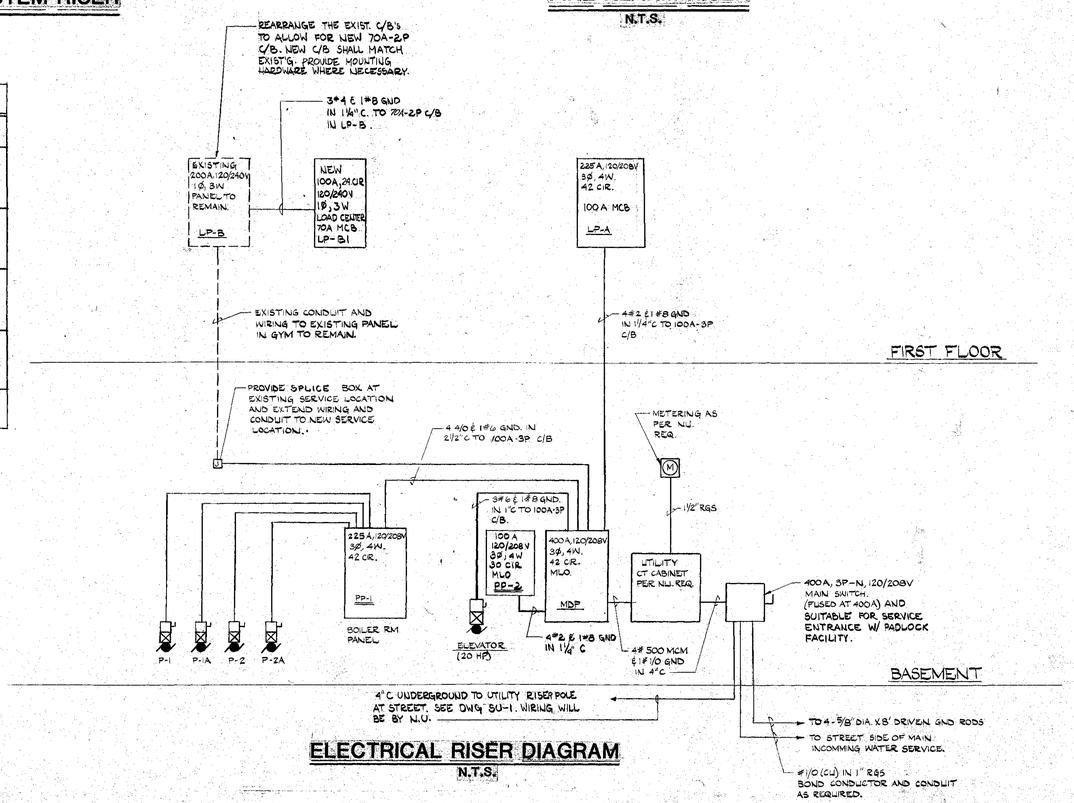


HANDICAPPED EMERGENCY CALL-FOR-AID

NTS

FIRE ALARM RISER

N.T.S.



ELECTRICAL RISER DIAGRAM

N.T.S.

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RISER DIAGRAM, LEGEND, SCHEDULE & DETAILS

SCALE NO. SCALE | DRAWN BY J. J. | REVISED | DATE 2-1-89

E-7

BURNHAM SCHOOL

BRIDGEWATER

121881

JOSEPH MERRITT & CO