RENOVATIONS TO

BOOTH FREE SCHOOL
ROXBURY, CONNECTICUT

SHEPAUG VALLEY
REGIONAL SCHOOL DISTRICT NO. 12

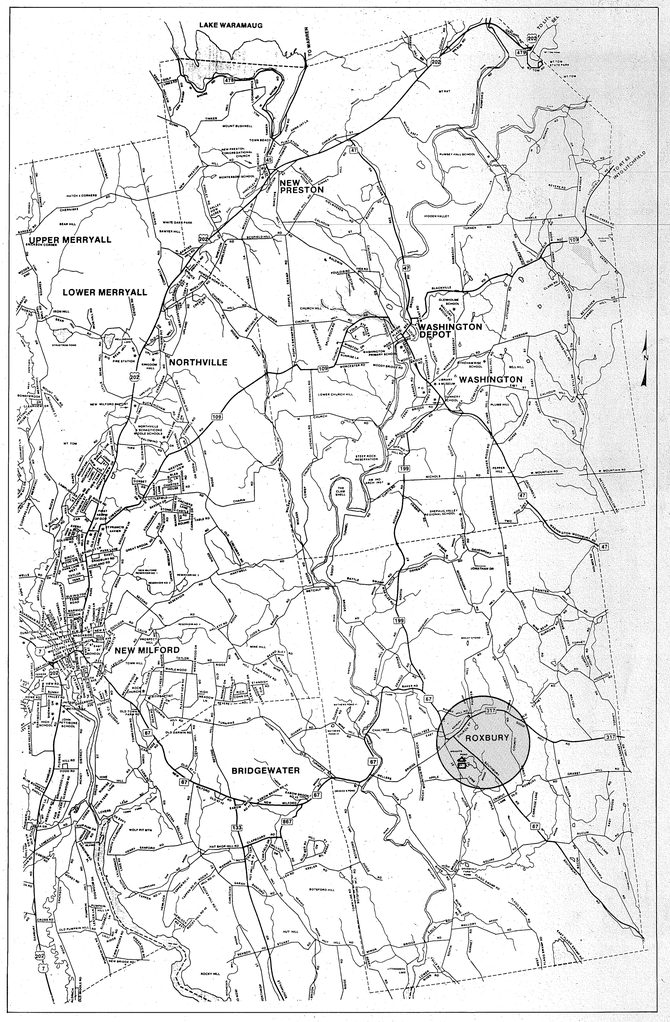
C. J. LAWLER ASSOCIATES · ARCHITECTS & PLANNERS

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



DRAWING LIST:

L1 DEMOLITION AND SITE DETAILS
L2 SITE LAYOUT, GRADING & PLANTING PLAN

A1 EXISTING PLAN SHOWING DEMOLITION
A2 FLOOR PLANS
A3 KITCHEN & TOILET ROOMS - ENLARGED PLANS & ELEVATIONS
A4 LIBRARY & SMALL GROUP INSTRUCTION - ENLARGED PLANS & ELEVATIONS
A5 ADMINISTRATION AREA - ENLARGED PLANS & ELEVATIONS
A6 INTERIOR ELEVATIONS
A7 STAIR PLANS, ELEVATIONS & DETAILS
A8 SECTIONS & DETAILS
A9 ELEVATIONS & DETAILS
A10 CASEWORK DETAILS
A11 FINISH SCHEDULE & DETAILS
A12 DOOR SCHEDULE AND DETAILS
A13 REFLECTED CEILING - PLAN & DETAILS

S1 CONNECTOR PLANS, SCHEDULES, AND FOUNDATION SECTIONS
S2 FOUNDATION AND ROOF SECTIONS, ROOF TRUSS ELEVATION AND NOTES
S3 MISC. PLANS AND SECTIONS

P1 PLUMBING FLOOR PLAN

H1 HVAC FLOOR PLAN
H2 HVAC SCHEMATIC AND DETAILS
H3 HVAC DETAILS AND SCHEDULES

DE1 ELECTRICAL DEMOLITION PLAN
E1 ELECTRICAL FLOOR PLAN - LIGHTING
E2 ELECTRICAL FLOOR PLAN - POWER
E3 RISER DIAGRAM, LEGEND & DETAILS

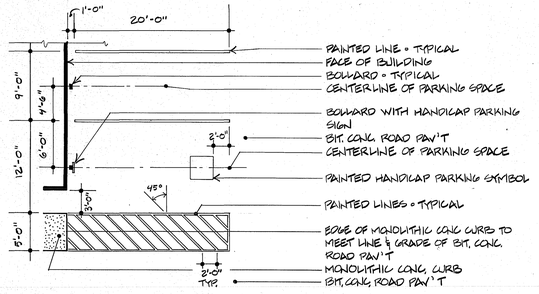
**PRELIMINARY-
NOT FOR CONSTRUCTION**

CODE INFORMATION

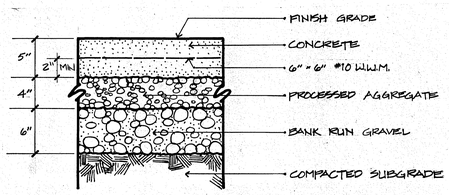
USE GROUP E - EDUCATIONAL
MULTIPURPOSE ROOM OCCUPANCY LOAD = 343

LEGEND

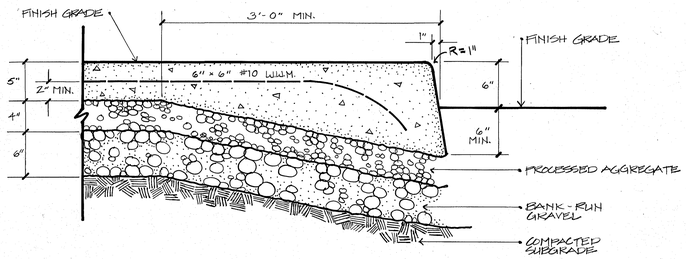
- EXIST. VEGETATION TO REMAIN
- EXIST. VEGETATION TO BE REMOVED
- EXIST. BIT. CONC. AND CONC. PAVEMENT TO BE REMOVED
- EXISTING EDGE OF PAVEMENT
- CONTRACT LIMIT LINE
- EXISTING CATCH BASIN (CB#)
- EXISTING STORM MANHOLE (MH#)
- EXISTING FENCE
- EXISTING CURB
- EXISTING OVERHEAD WIRES
- 100 EXISTING CONTOUR
- 100 NEW CONTOUR
- 103.4 NEW SPOT GRADE
- EXIST STORM DRAINAGE PIPES
- EXIST. UTILITY POLE
- EXIST. SANITARY MANHOLE (SAN. MH#)
- SAN EXIST. SANITARY SEWER LINE
- GATE
- 2 / 33 NEW PLANT MATERIAL KEY — PLANT NUMBER, QUANTITY
- NEW CONC. WALK PAV'T — TYP. CONTROL JOINT, TYP. EXPANSION JOINT
- B / L-1 DETAIL KEY — DETAIL SYMBOL, SHEET NUMBER
- NEW SEEDED LAWN
- EXIST. CURBING TO BE REMOVED



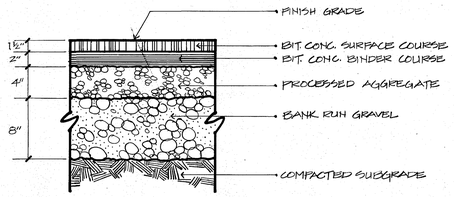
A / L-1 **HANDICAP PARKING SPACE**
NOT TO SCALE



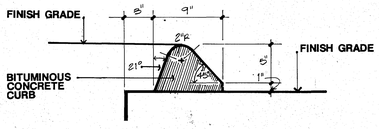
B / L-1 **CONCRETE WALK PAVEMENT**
NOT TO SCALE



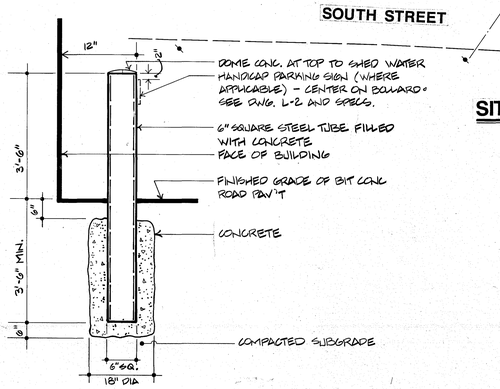
D / L-1 **MONOLITHIC CONCRETE CURBING**
NOT TO SCALE



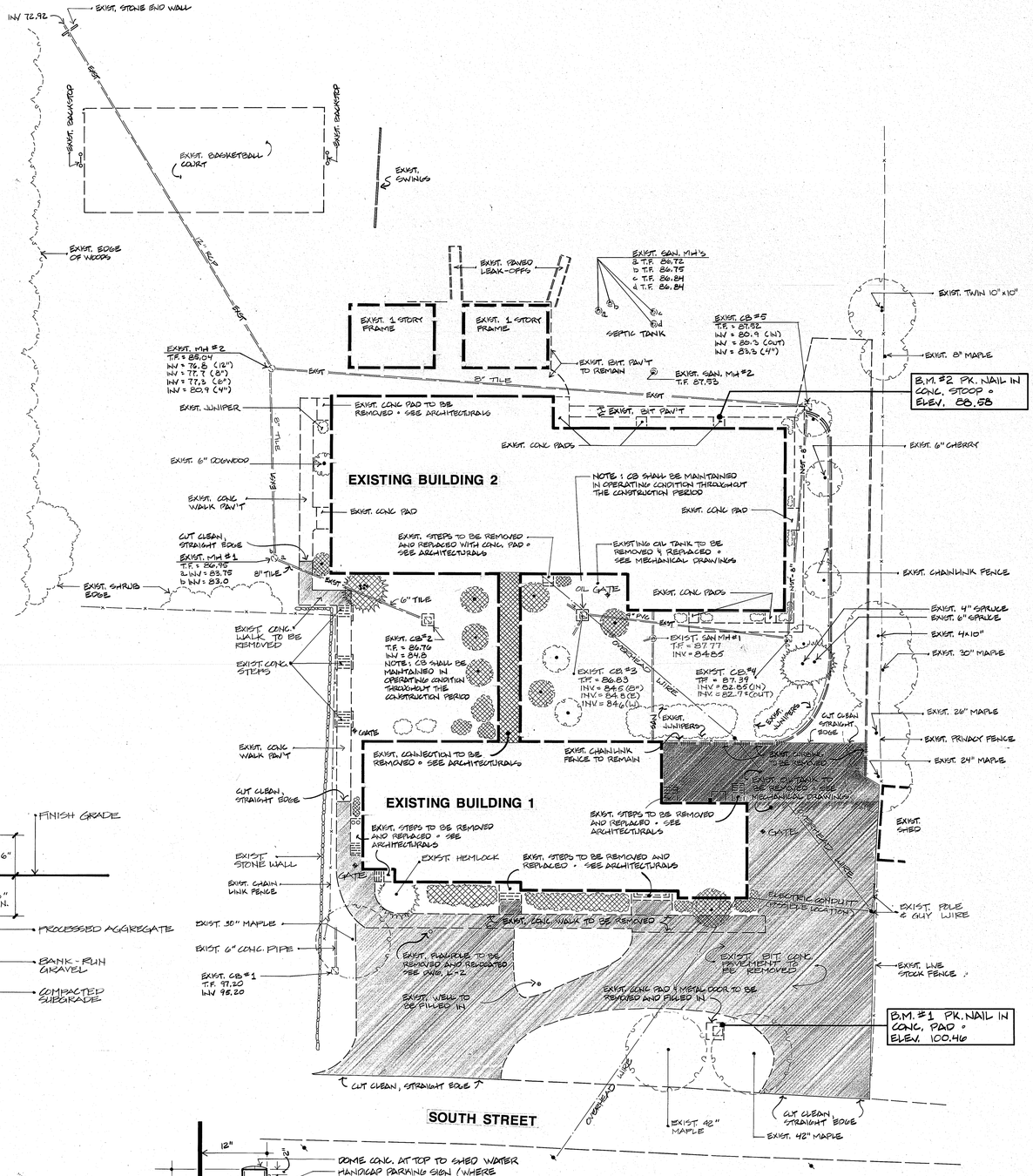
C / L-1 **BIT. CONC. ROAD PAVEMENT**
NOT TO SCALE



E / L-1 **BITUMINOUS CONCRETE CURBING**
NOT TO SCALE



F / L-1 **BOLLARD**



SITE DEMOLITION PLAN

SCALE: 1" = 20'

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

SCALE: 1"=20' DRAWN BY: DEB
DATE: JUNE 21, 1988 REVISIONS:

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

BOOTH FREE SCHOOL ROXBURY

SITE DEMOLITION PLAN & SITE DETAILS

L-1

BOOTH FREE SCHOOL ROXBURY

PLANT LIST

NO.	BOTANICAL NAME	COMMON NAME	QUAN.	SIZE	COND.	REMARKS
1	BETULA ALBA	EUROPEAN WHITE BIRCH	5	2½" CAL.	B&B	
2	ILEX CRENATA CONVEXA	CONVEXLEAF JAPANESE HOLLY	47	1½'-2' HT.	CANS	PLANT 3' O.C.
3	FORSYTHIA SUSPENSA	WEEPING FORSYTHIA	31	2½'-3' HT.	B&B	PLANT 4' O.C.
4	HEDERA HELIX BALTICA	HARDY ENGLISH IVY	2638	1 YR.	FLATS	PLANT 6" O.C.
5	PIERIS JAPONICA	JAPANESE ANDROMEDA	22	2'-2½' HT.	B&B	PLANT 4' O.C.
6	JUNIPERUS HORIZONTALIS PLUMOSA	ANDORRA JUNIPER	32	18"-24" SPR.	B&B	PLANT 3'-6" O.C.

PLANT NOTES

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

GENERAL NOTES

1 EXISTING CONDITIONS, TOPOGRAPHY AND UTILITY INFORMATION TAKEN FROM A DRAWING ENTITLED "TOPOGRAPHIC SURVEY MAP - BOOTH FREE SCHOOL - ROXBURY, CONNECTICUT", DRAWING NO. 2200, SCALE 1" = 20, REVISED DATE OF 4 MAY 1988, AS PREPARED BY IGOR VELHESOFF, PROFESSIONAL ENGINEER & LAND SURVEYOR, 51 LORRAINE STREET, HARTFORD, CT.

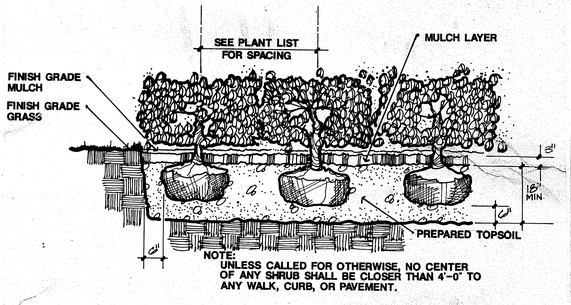
2 ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND HE SHALL BE HELD RESPONSIBLE FOR SAME.

3 ALL DIMENSIONS AT 90° UNLESS OTHERWISE NOTED.

4 THE CONTRACTOR SHALL RESTORE TO ORIGINAL CONDITION ALL AREAS DISTURBED BY CONSTRUCTION.

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

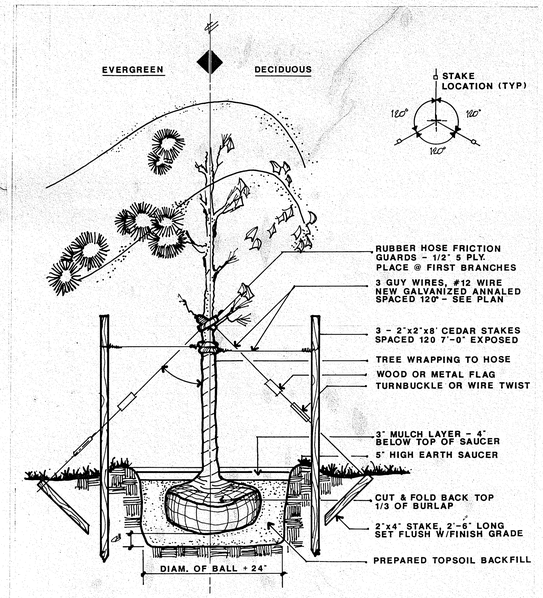
6 FOR LEGEND, SEE DRAWING L-1, TITLED "DEMOLITION AND SITE DETAILS".



NOTE:
UNLESS CALLED FOR OTHERWISE, NO CENTER OF ANY SHRUB SHALL BE CLOSER THAN 4'-0" TO ANY WALK, CURB, OR PAVEMENT.

SHRUB BED PLANTING

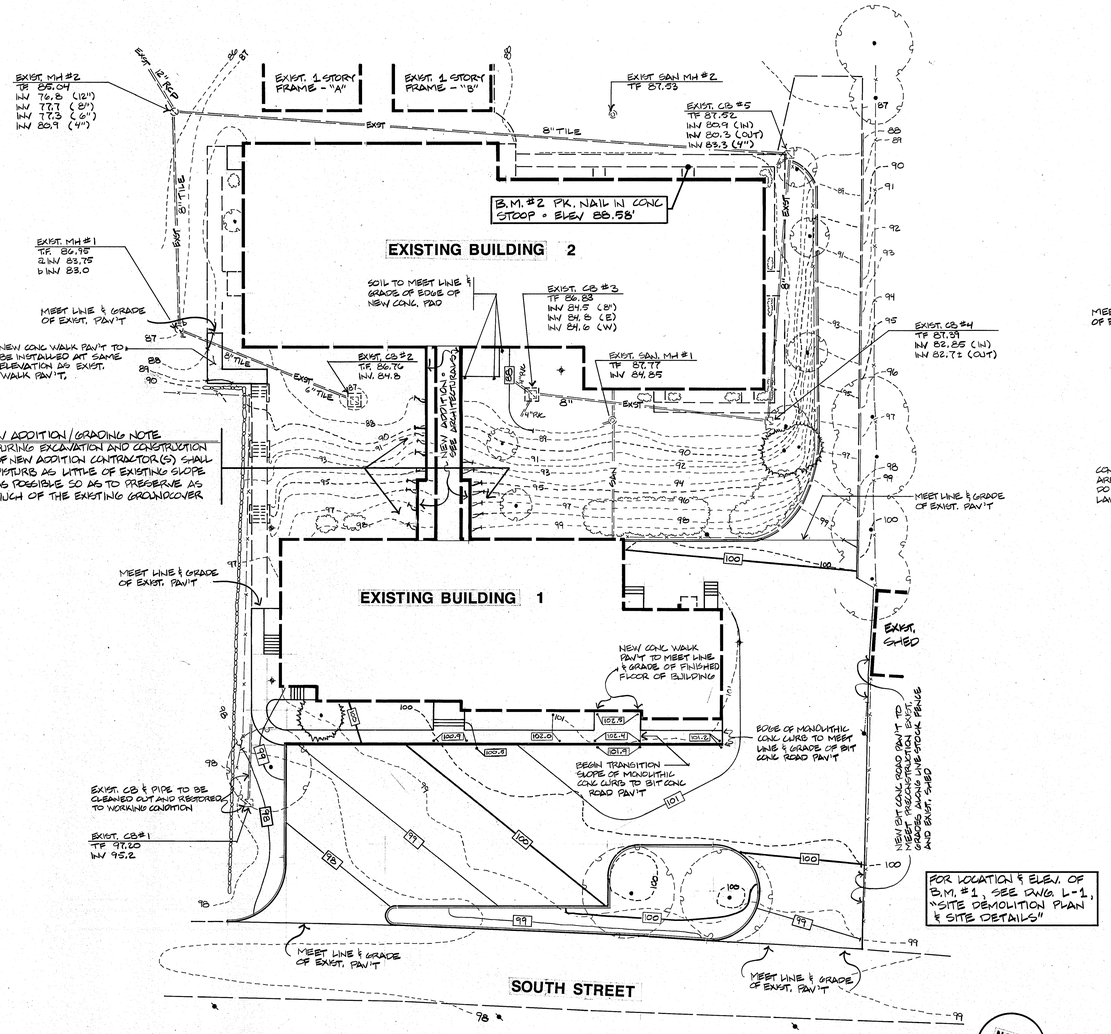
NOT TO SCALE



NOTE: FOR DECIDUOUS TREES USE 2"x2"x8' CEDAR STAKES.
FOR EVERGREEN TREES USE GUY WIRES WITH 2"x4"x2'-6" WOOD STAKES.

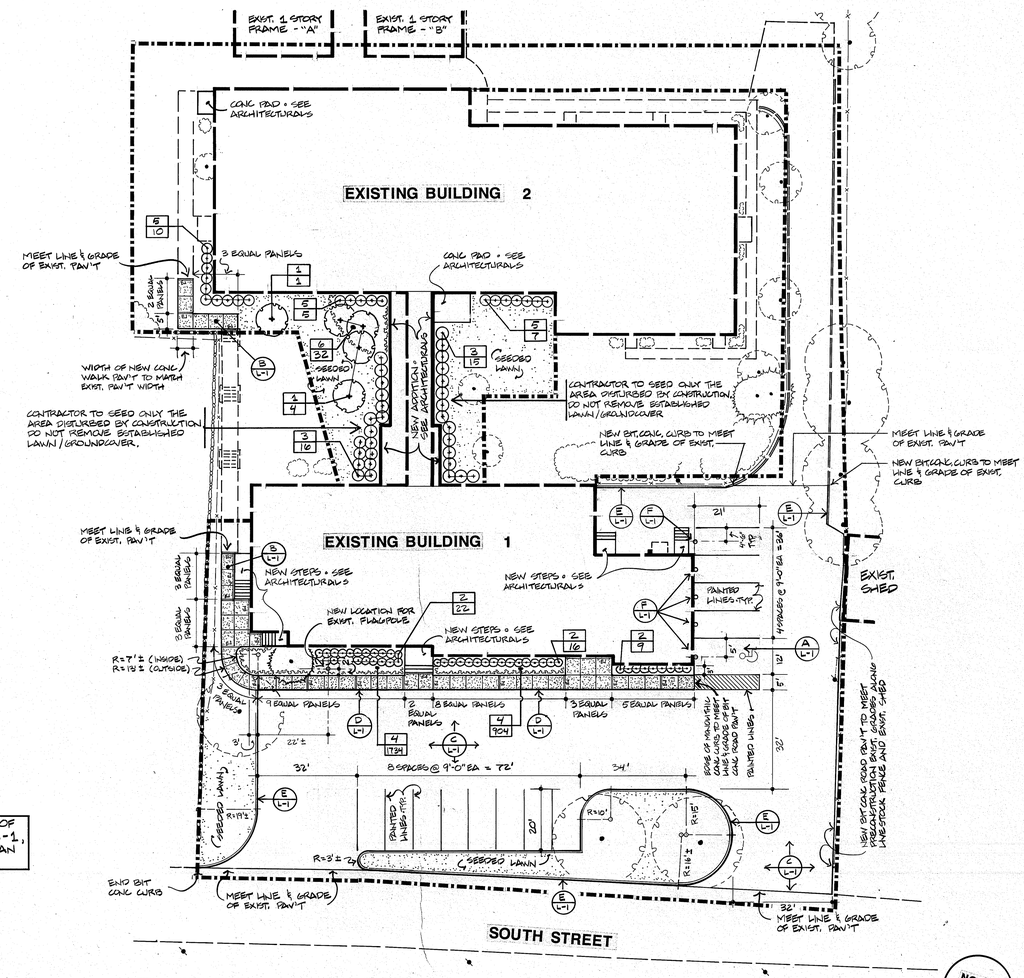
TREE PLANTING DETAIL

NOT TO SCALE



SITE GRADING PLAN

SCALE: 1" = 20'



SITE LAYOUT & PLANTING PLAN

SCALE: 1" = 20'

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ARCHITECTS & PLANNERS
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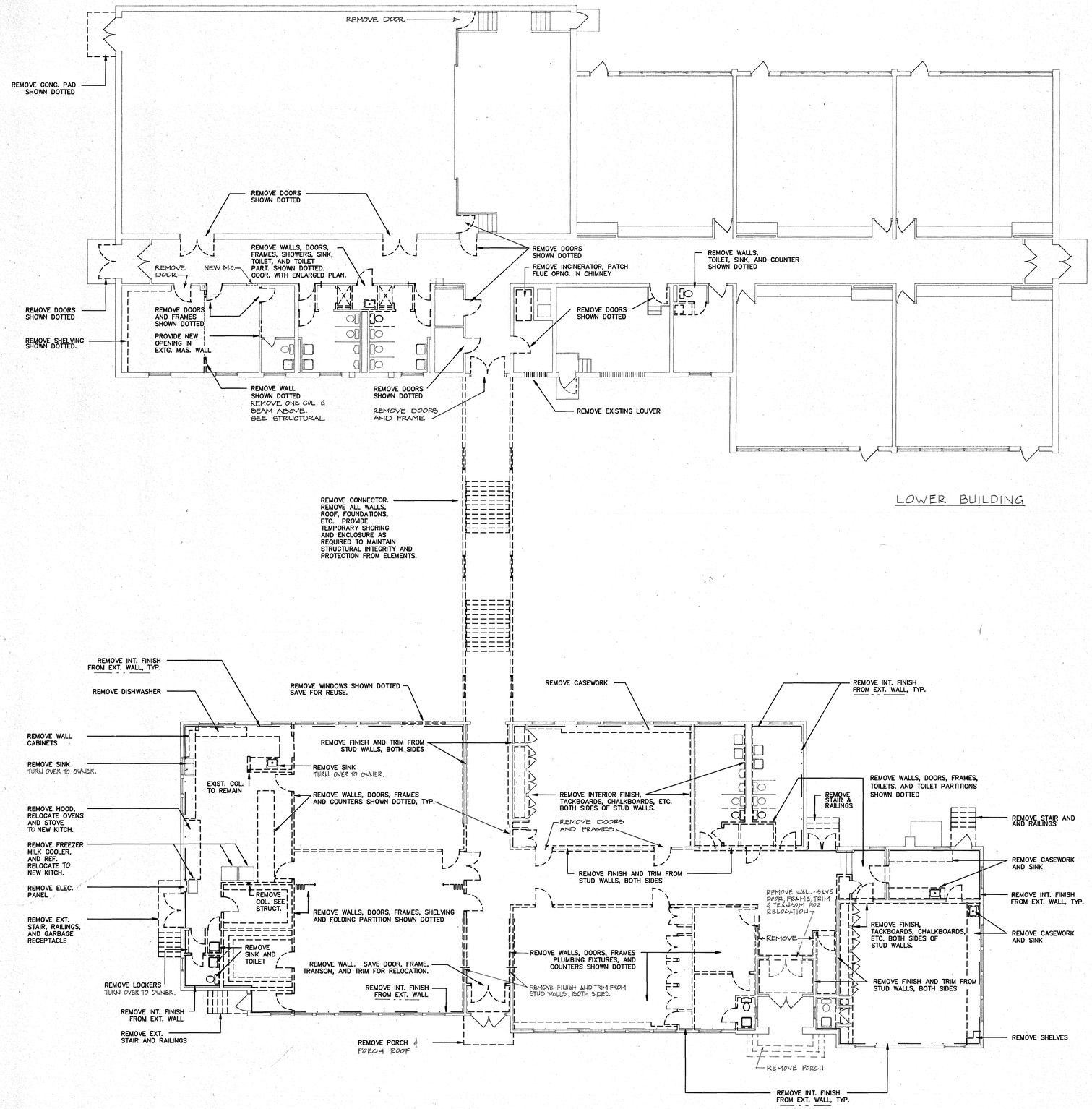
MR. ROMING ASSOCIATES, INC.
Landscape Architects - Land Planners
West Hartford Connecticut

SCALE: 1" = 20'
DRAWN BY: DEB
DATE: JUNE 21, 1988
REVISIONS

SITE LAYOUT, GRADING & PLANTING PLAN

L-2



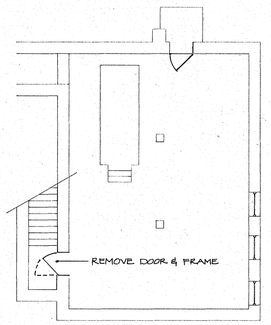
A / A1 DEMOLITION PLAN

GENERAL KEY

- REMOVE EXISTING DOOR. REMOVE FRAME WHERE NOTED.
- REMOVE EXISTING CONSTRUCTION FROM STRUCTURE BELOW TO STRUCTURE ABOVE UNLESS OTHERWISE NOTED
- NEW DOOR. NEW FRAME WHERE SCHEDULED
- DETAIL NUMBER
- DOOR NUMBER
- ROOM NUMBER
- WALL TYPE
- ELEVATION
- SECTION
- WINDOW NUMBER

NOTES:

1. SHORE EXTG. UPPER LEVEL ROOF TRUSSES AT BOTH SIDES OF CORRIDOR DURING CONSTRUCTION UNTIL MAJOR PARTITIONS ARE IN PLACE AND INSPECTED BY THE ENGINEER.
2. REMOVE ALL UPPER LEVEL CLGS. COMPLETE. REMOVE LOWER LEVEL CORRIDOR, KITCHEN AND TEACHERS' ROOM CEILINGS AND GRID. REMOVE CLG. PANELS ONLY IN 3 LOWER LEVEL CLASSROOMS SCHEDULED FOR NEW TILES. REMOVE CEILING IN STORAGE RM. 34.
3. COORDINATE REMOVALS FOR CONDUIT, PIPING, ETC. WITH MECHANICAL AND ELECTRICAL DWGS.
4. FOR EXTERIOR DEMOLITION OF SITE, SEE DEMOLITION PLAN L-1.
5. REMOVE ALL FINISHES FROM INTERIOR PARTITIONS TO REMAIN AT UPPER BUILDING.
6. REMOVE INTERIOR FINISH FROM EXTERIOR WALL AT UPPER BUILDING.



B / A1 DEMOLITION PLAN

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

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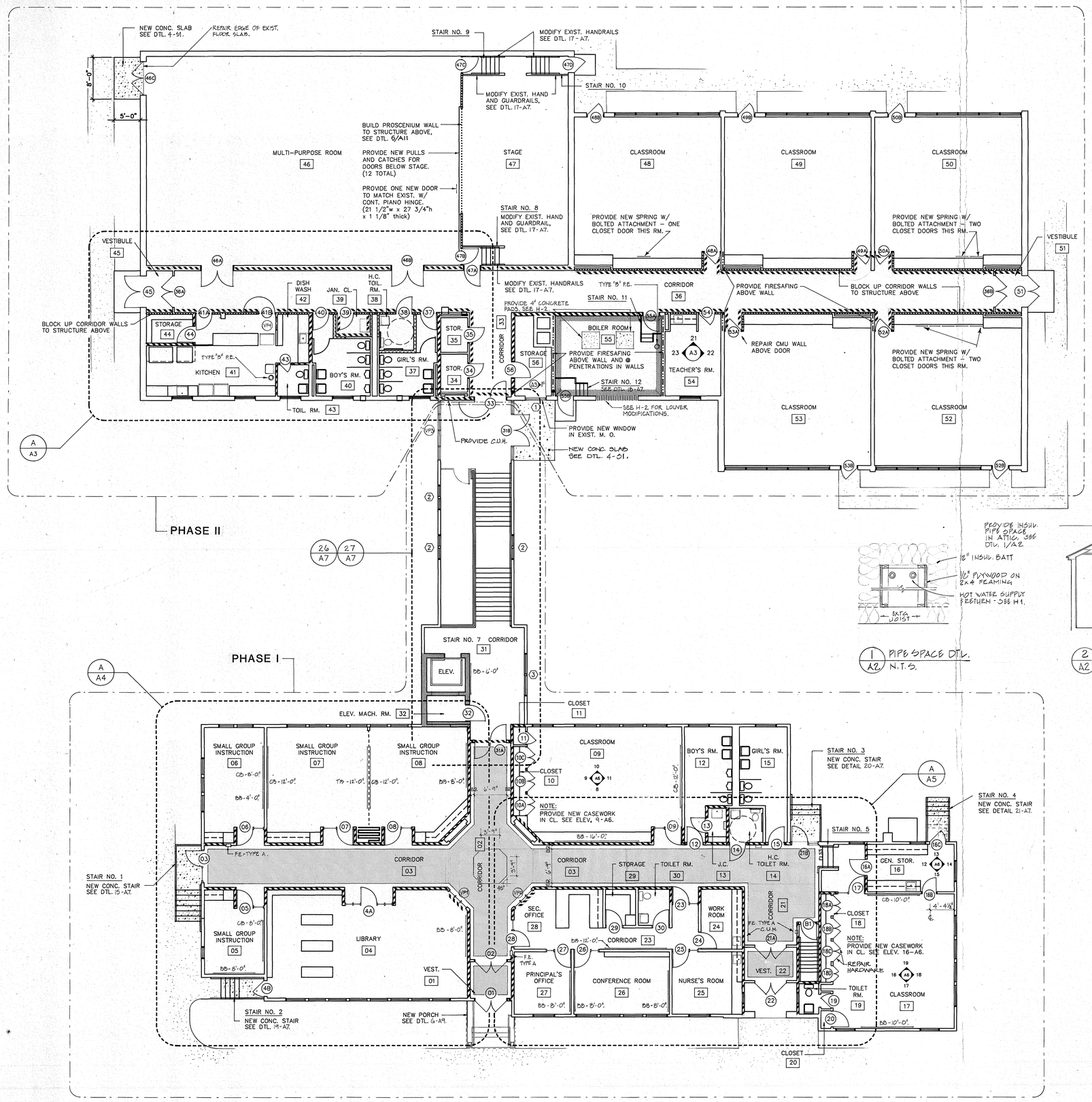
MECHANICAL & ELECTRICAL: BURTON & VAN HOUTEN ENGINEERS, INC.
10 NORTH MAIN STREET, WEST HARTFORD, CT 06107 (203) 236-2365
STRUCTURAL: GIRARD & CO. ENGINEERS
40 WETHERSFIELD AVENUE, HARTFORD, CT 06114 (203) 524-1594

EXTG. PLAN SHOWING DEMOLITION

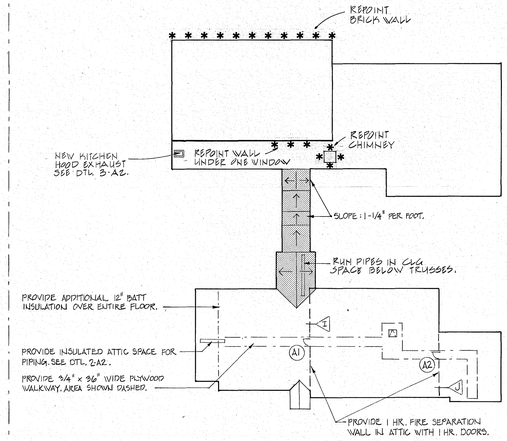
SCALE: 1/8" = 1'-0"
DRAWN BY: BH, MG.
DATE: 01 SEPT. '80
REVISED:

A1

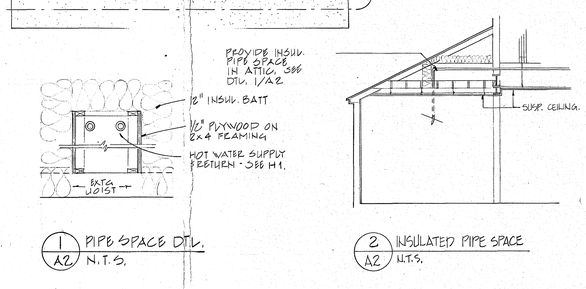
BOOTH FREE SCHOOL • ROXBURY



A / A2 FLOOR PLAN

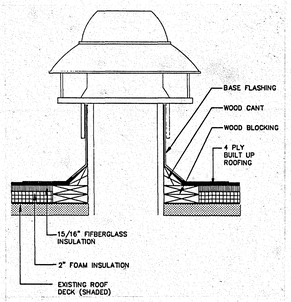


C / A2 KEY ROOF PLAN
1/32" = 1'-0"

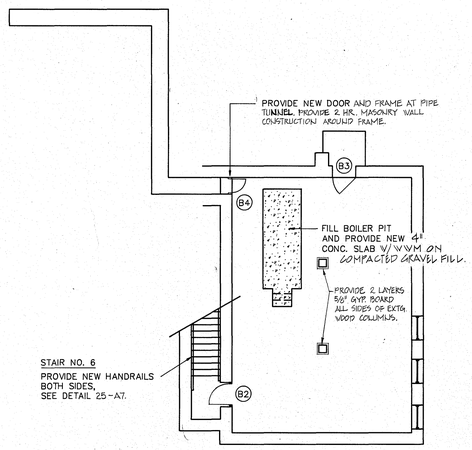


1 / A2 PIPE SPACE DTL.
N.T.S.

2 / A2 INSULATED PIPE SPACE
N.T.S.



3 / A2 ROOF DTL. @ HOOD
N.T.S.



B / A2 BASEMENT PLAN

GENERAL NOTES

1. PROVIDE 3 1/2" FIBERGLASS INSULATION WITH VAPOR BARRIER AND NEW GYPSUM BOARD FINISH AT ALL EXTERIOR WALLS OF CLAPBOARD BLDG. SEE WALL TYPE D.
2. SEE DRAWING L-2 FOR FULL EXTERIOR PAVING AND WALKWAYS.
3. LOWER WINDOW LOCKS ON ALL EXTERIOR WINDOWS OF UPPER BUILDING. SEE DTL. 14-A9.

LEGEND

- 1 HOUR WALL
- 2 HOUR WALL
- * * * * REPOINT BRICK

STATE OF CONNECTICUT — GABRIEL JAMES LAWLER JR. — NO. 2567 — REGISTERED ARCHITECT

C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
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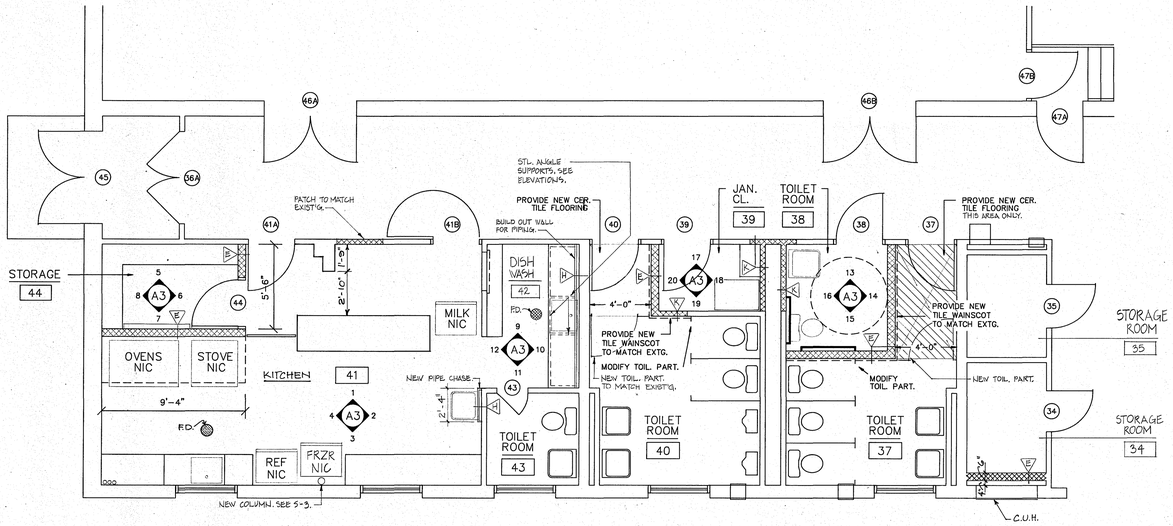
STRUCTURAL : GIRARD & CO. ENGINEERS
40 WETHERSFIELD AVENUE, HARTFORD, CT 06114 (203) 524-1594

FLOOR PLANS

SCALE : 1/8" = 1'-0"
DATE : 01 SEPT. '00
DRAWN BY : B.H
REVISED :

A2

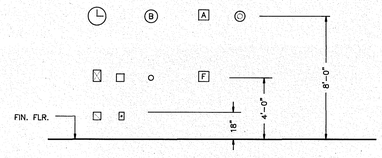
BOOTH FREE SCHOOL • ROXBURY



A/A3 ENLARGED PLAN – LOWER LEVEL

SYMBOLS

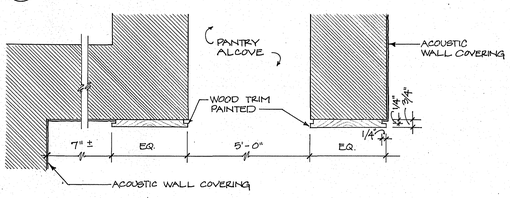
- SWITCH
- PHONE HAND SET
- RECEPTACLE
- THERMOSTAT
- SOUND SYSTEM SPEAKER
- CLOCK
- TELEPHONE JACK
- FIRE ALARM PULL
- BELL
- FIRE ALARM



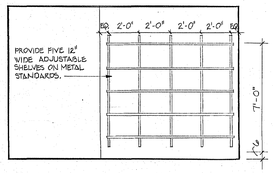
TYPICAL MOUNTING HEIGHTS

(UNLESS NOTED OTHERWISE)

NOTES:
1. ALL CASE WORK @ KITCHEN #41, DISHWASH #42, STORAGE #44, AND TEACHERS' RM. #54. TO HAVE PLASTIC LAMINATE FINISH.
2. ALL SURFACE MTD. ELECTRICAL WIRING TO BE IN PLUGMOLD.

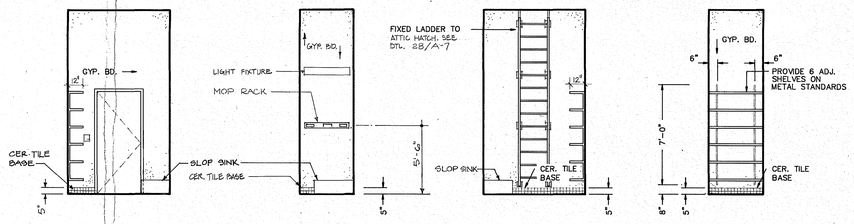


24/A3 WOOD TRIM @ TEACHERS' ROOM – RM. 54
SCALE: 3" = 1'-0"



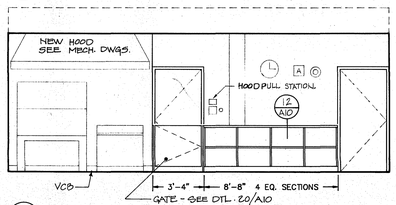
F/A3 STORAGE RM. 56

NOTE: SHELVES IN STORAGE RM. 56 SHALL BE PLYWOOD EDGED FOUR SIDES WITH OPAQUE PAINT FINISH.



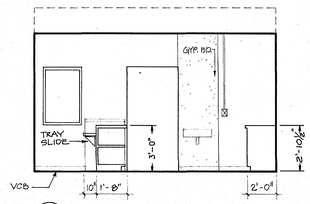
E/A3 JAN. CL. ROOM 13 — D/A3 JAN. CL. ROOM 13 — C/A3 JAN. CL. ROOM 13 — B/A3 JAN. CL. ROOM 13

NOTE: SHELVES IN JANITOR'S CLOSET 13 SHALL BE PLYWOOD EDGED FOUR SIDES WITH OPAQUE PAINT FINISH.

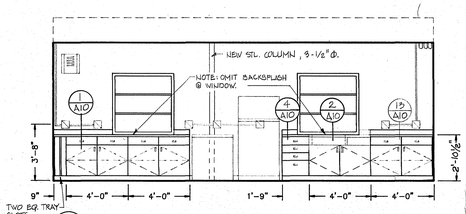


1/A3 KITCHEN ROOM 41

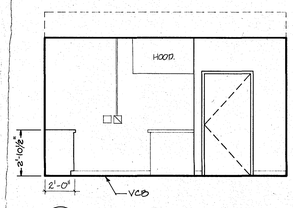
NOTE: ALL KITCHEN MILLWORK SHALL BE PLASTIC LAMINATE ON ALL EXPOSED SURFACES, INTERIOR AND EXTERIOR.



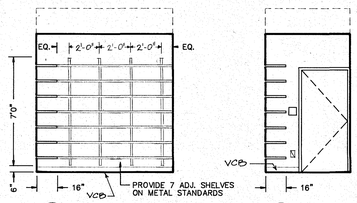
2/A3 KITCHEN ROOM 41



3/A3 KITCHEN ROOM 41

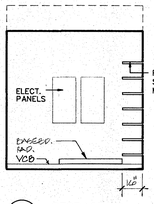


4/A3 KITCHEN ROOM 41

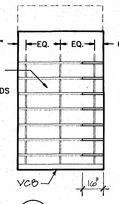


5/A3 STORAGE ROOM 44 — 6/A3 STORAGE ROOM 44

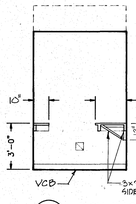
NOTE: SHELVES IN STORAGE ROOM 44 SHALL BE PLASTIC LAMINATE ON ALL SIX EXPOSED SURFACES.



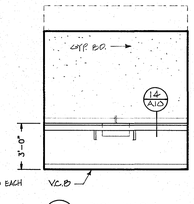
7/A3 STORAGE ROOM 44



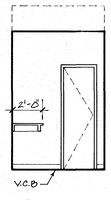
8/A3 STORAGE ROOM 44



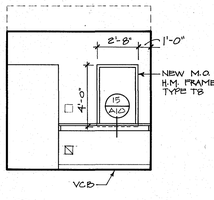
9/A3 DISH WASH ROOM 42



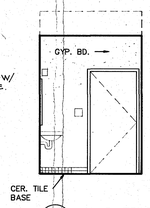
10/A3 DISH WASH ROOM 42



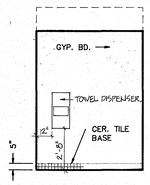
11/A3 DISH WASH ROOM 42



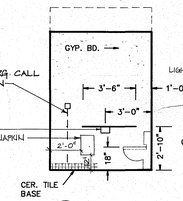
12/A3 DISH WASH ROOM 42



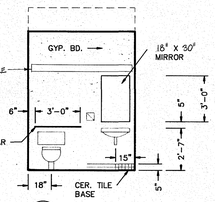
13/A3 H. C. TOILET RM. ROOM 38



14/A3 H. C. TOILET RM. ROOM 38

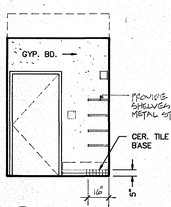


15/A3 H. C. TOILET RM. ROOM 38

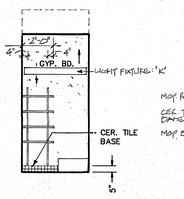


16/A3 H. C. TOILET RM. ROOM 38

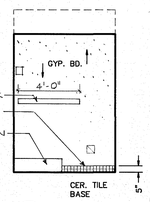
NOTE: SHELVES AND COUNTERS IN STORAGE ROOM 44 AND DISHWASH ROOM 42 SHALL BE PLASTIC LAMINATE ON ALL EXPOSED SURFACES.



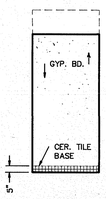
17/A3 JAN. CL. ROOM 39



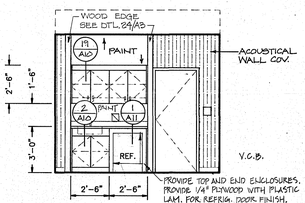
18/A3 JAN. CL. ROOM 39



19/A3 JAN. CL. ROOM 39

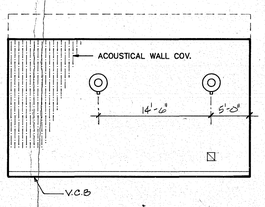


20/A3 JAN. CL. ROOM 39

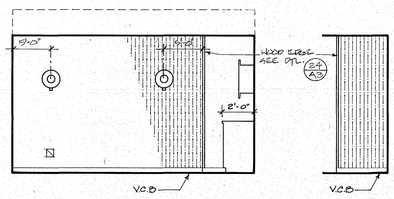


21/A3 TEACHER'S ROOM ROOM 54

NOTE: CASEWORK IN TEACHER'S ROOM 54 SHALL BE PLAS. LAM. ON ALL EXPOSED SURFACES, INTERIOR AND EXTERIOR.



22/A3 TEACHER'S ROOM ROOM 54



23/A3 TEACHER'S ROOM ROOM 54

NOTE: SHELVED IN JANITOR'S CLOSET RM. 39 SHALL BE PLYWOOD EDGED 4 SIDES W/ OPAQUE PAINT FINISH.

C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
7 SOUTH MAIN STREET, WEST HARTFORD, CT 06710 (203) 233-8526

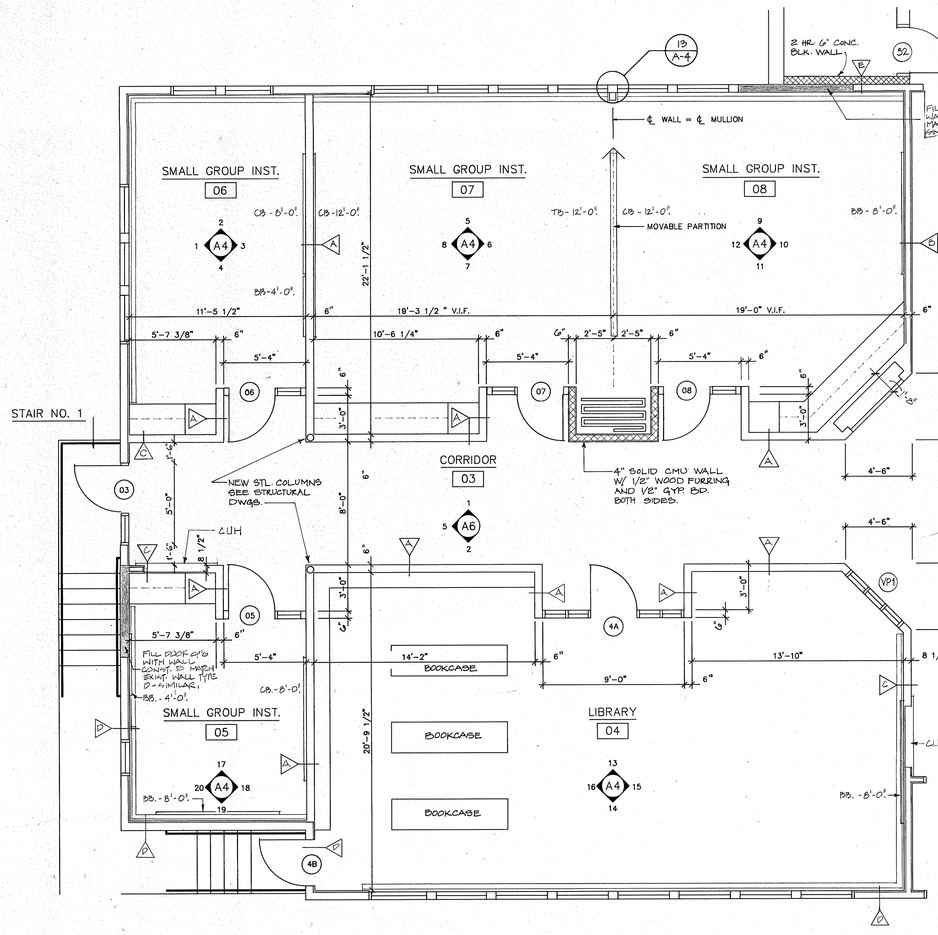
CONSULTANTS
MECHANICAL & ELECTRICAL: BURTON & VAN HOUTEN ENGINEERS, INC.
10 NORTH MAIN STREET, WEST HARTFORD, CT 06107 (203) 236-2365
STRUCTURAL: GIRARD & CO. ENGINEERS
40 WETHERSFIELD AVENUE, HARTFORD, CT 06114 (203) 524-1594

KITCHEN & TOIL. RMS. – ENLARGED PLANS & ELEVS.

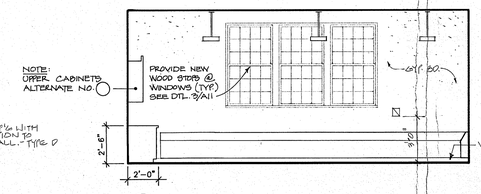
SCALE: 1/4" = 1'-0"
DATE: 01 SEPT. 199
DRAWN BY: RH
REVISED:

A3

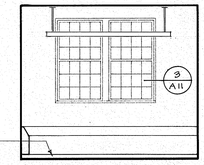
BOOTH FREE SCHOOL • ROXBURY



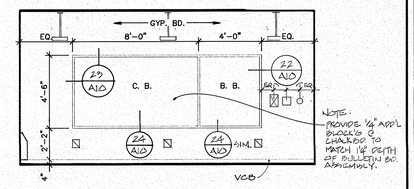
A/A4 ENLARGED PLAN – UPPER LEVEL NORTH



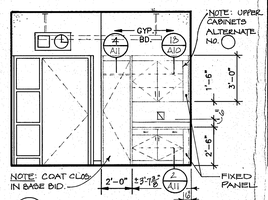
1/A4 SMALL GROUP INST. ROOM 06



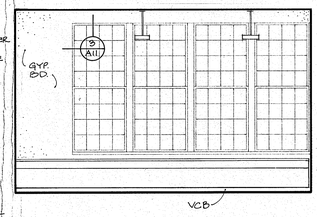
2/A4 SMALL GROUP INST. ROOM 06



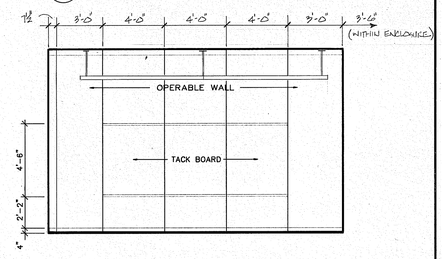
3/A4 SMALL GROUP INST. ROOM 06



4/A4 SMALL GROUP INST. ROOM 06

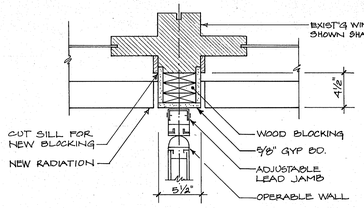


5/A4 SMALL GROUP INST. ROOM 07

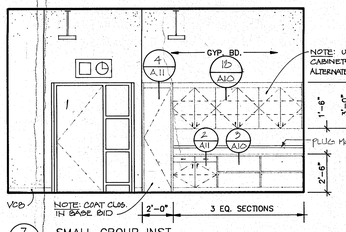


6/A4 SMALL GROUP INST. ROOM 07

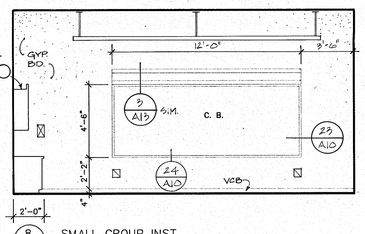
NOTE: MILLWORK SHALL HAVE TRANSPARENT FINISH. COUNTERTOP SHALL BE PLAS. LAMINATE WITH HARDWOOD EDGES.



B/A-4 EXISTING WINDOW DETAIL 1 1/2" = 1'-0"

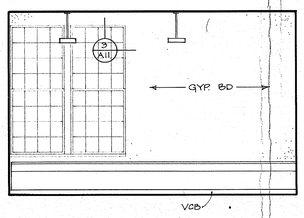


7/A4 SMALL GROUP INST. ROOM 07

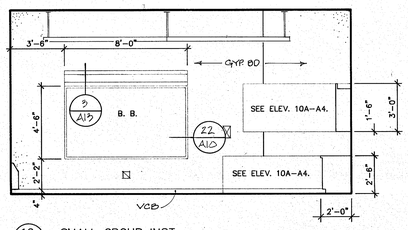


8/A4 SMALL GROUP INST. ROOM 07

NOTE: MILLWORK IN SGI ROOM 07 SHALL HAVE TRANSPARENT FINISH. COUNTERTOP SHALL BE PLAS. LAMINATE WITH HARDWOOD EDGES.

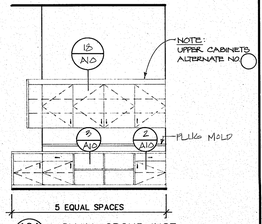


9/A4 SMALL GROUP INST. ROOM 08

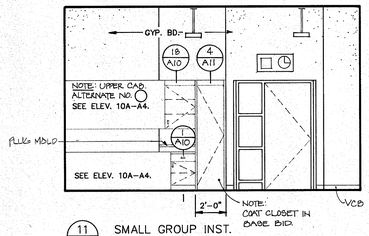


10/A4 SMALL GROUP INST. ROOM 08

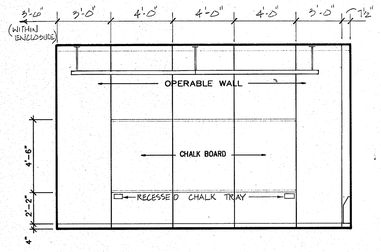
NOTE: MILLWORK IN SGI ROOM 08 SHALL HAVE TRANSPARENT FINISH. COUNTERTOP SHALL BE PLAS. LAMINATE WITH HARDWOOD EDGE.



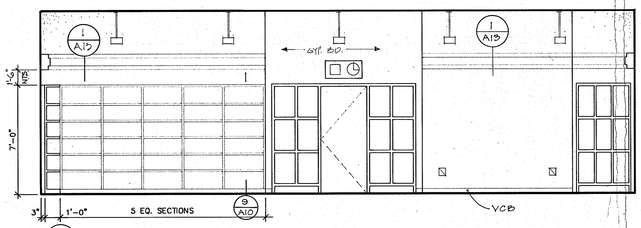
10A/A4 SMALL GROUP INST. ROOM 08



11/A4 SMALL GROUP INST. ROOM 08

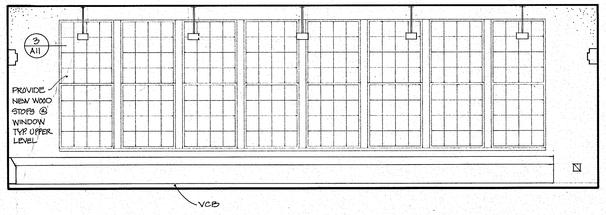


12/A4 SMALL GROUP INST. ROOM 08

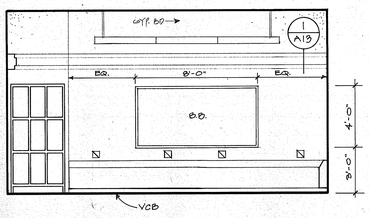


13/A4 LIBRARY ROOM 04

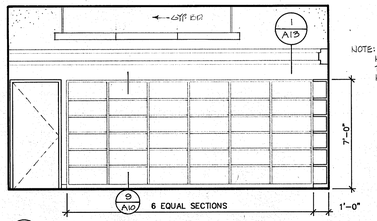
NOTE: SHELVING IN LIBRARY ROOM 04 SHALL HAVE TRANSPARENT FINISH.



14/A4 LIBRARY ROOM 04

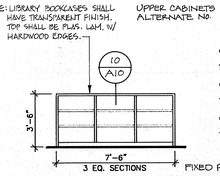


15/A4 LIBRARY ROOM 04

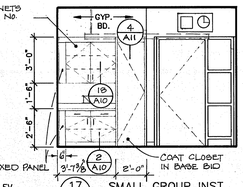


16/A4 LIBRARY ROOM 04

NOTE: LIBRARY BOOKCASES SHALL HAVE TRANSPARENT FINISH. TOP SHALL BE PLAS. LAM. W/ HARDWOOD EDGES.

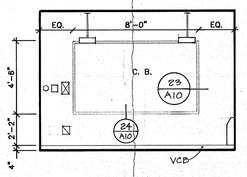


16A/A4 LIBRARY - BOOKCASE ELEV. ROOM 04 (3 REQUIRED)

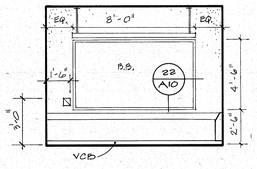


17/A4 SMALL GROUP INST. ROOM 05

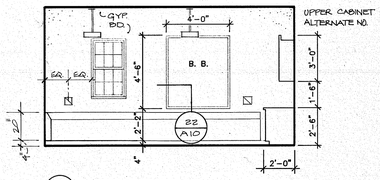
NOTE: MILLWORK IN SGI ROOM 05 SHALL HAVE TRANSPARENT FINISH. COUNTERTOP SHALL BE PLAS. LAM. WITH HARDWOOD EDGE.



18/A4 SMALL GROUP INST. ROOM 05



19/A4 SMALL GROUP INST. ROOM 05



20/A4 SMALL GROUP INST. ROOM 05

STATE OF CONNECTICUT GARRIS, JAMES LAWLER NO. 2969 REGISTERED ARCHITECT

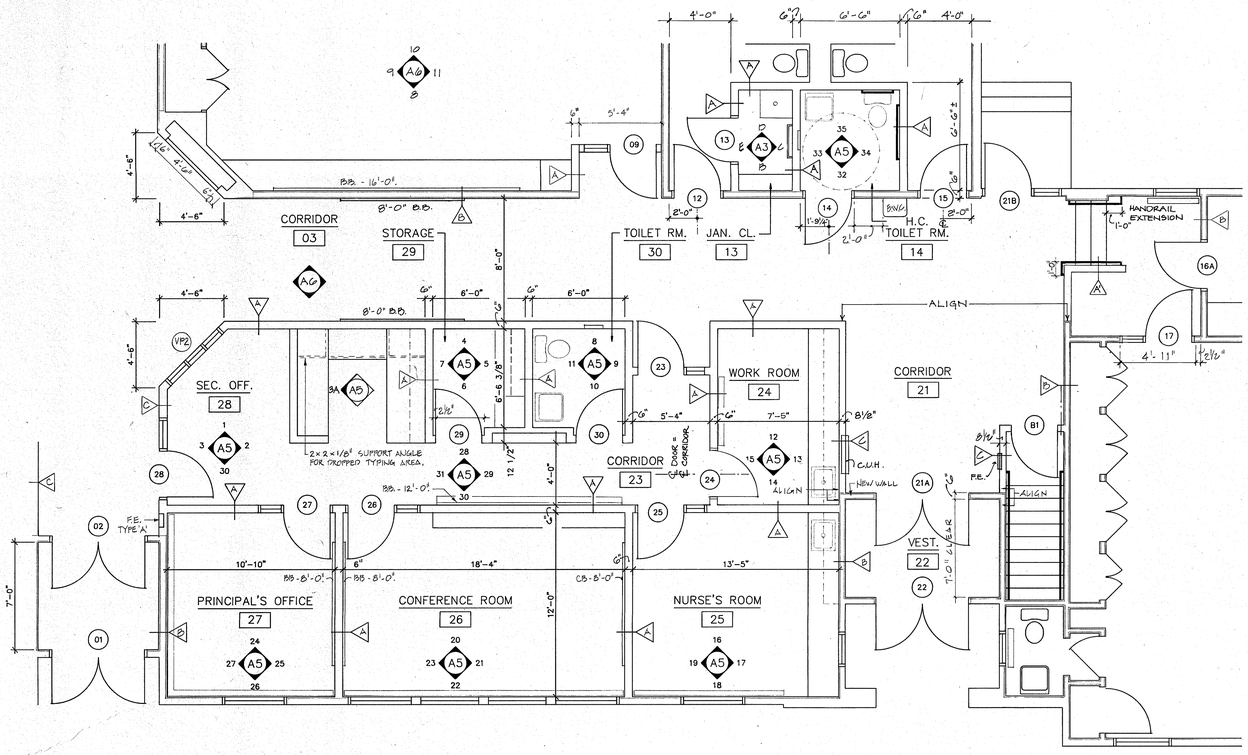
C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
7 SOUTH MAIN STREET, WEST HARTFORD, CT 06710 (203) 233-8526

CONSULTANTS
MECHANICAL & ELECTRICAL : BURTON & VAN HOUTEN ENGINEERS, INC.
10 NORTH MAIN STREET, WEST HARTFORD, CT 06107 (203) 236-2365
STRUCTURAL : GIRARD & CO. ENGINEERS
40 WETHERSFIELD AVENUE, HARTFORD, CT 06114 (203) 524-1594

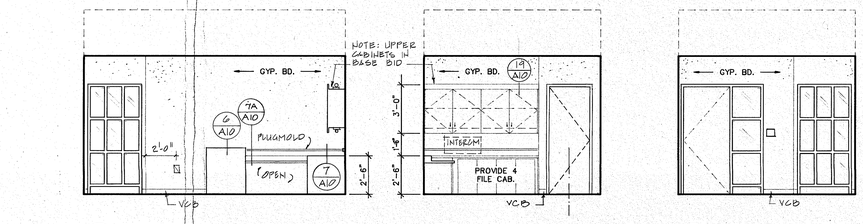
LIBRARY & SMALL GRP. INST. – ENLARGED PLANS & ELEVS.
SCALE : 1/4" = 1'-0"
DRAWN BY : B.H.
DATE : 01 SEPT. 1992
REVISED :

A4

BOOTH FREE SCHOOL • ROXBURY

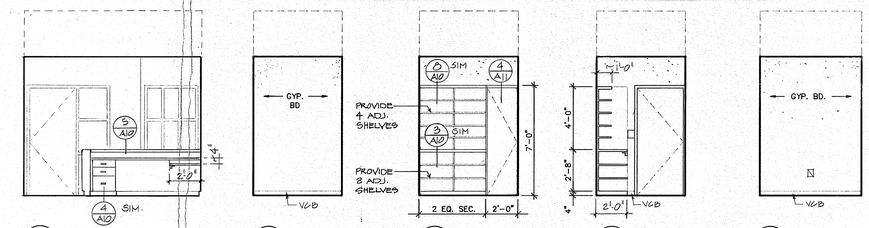


A/A5 ENLARGED PLAN – ADMINISTRATION AREA, UPPER LEVEL
1/4" = 1'-0"



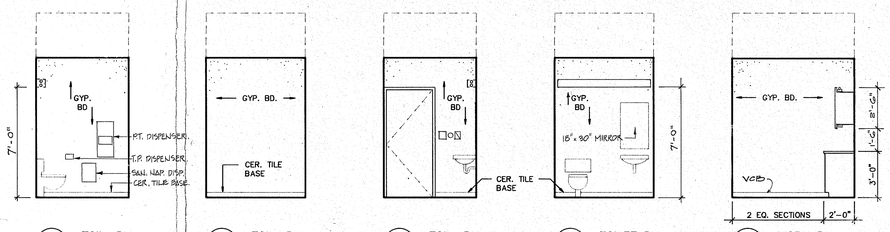
1/A5 SECRETARY'S OFFICE ROOM 28
2/A5 SECRETARY'S OFFICE ROOM 28
3/A5 SECRETARY'S OFFICE ROOM 28

NOTE: MILLWORK IN SECRETARY'S OFFICE ROOM 28 SHALL HAVE TRANSPARENT FINISH. COUNTERTOP SHALL BE LINOLEUM WITH HARDWOOD EDGE.

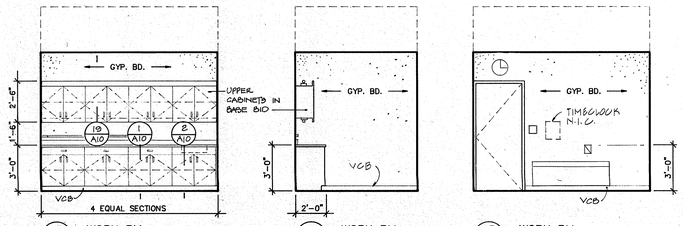


3A/A5 SECRETARY'S DESK ROOM 28
4/A5 STORAGE ROOM 29
5/A5 STORAGE ROOM 29
6/A5 STORAGE ROOM 29
7/A5 STORAGE ROOM 29

NOTE: MILLWORK IN STORAGE ROOM 29 SHALL HAVE TRANSPARENT FINISH. COUNTERTOP SHALL BE PLAS. LAMINATE WITH HARDWOOD EDGES.

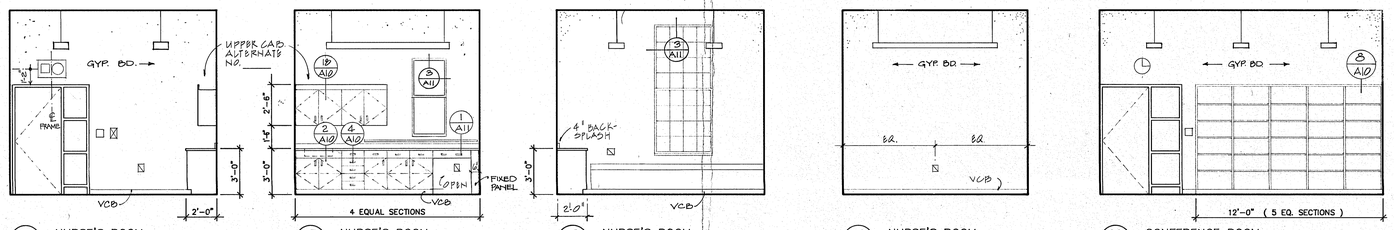


8/A5 TOIL. RM. ROOM 30
9/A5 TOIL. RM. ROOM 30
10/A5 TOIL. RM. ROOM 30
11/A5 TOILET RM. ROOM 30
12/A5 WORK RM. ROOM 24



13/A5 WORK RM. ROOM 24
14/A5 WORK RM. ROOM 24
15/A5 WORK RM. ROOM 24

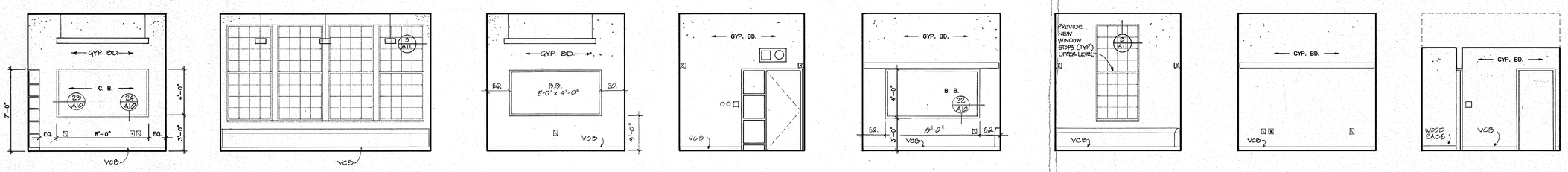
NOTE: MILLWORK IN WORK ROOM 24 SHALL HAVE TRANSPARENT FINISH. COUNTERTOP SHALL BE PLAS. LAMINATE WITH HARDWOOD EDGE.



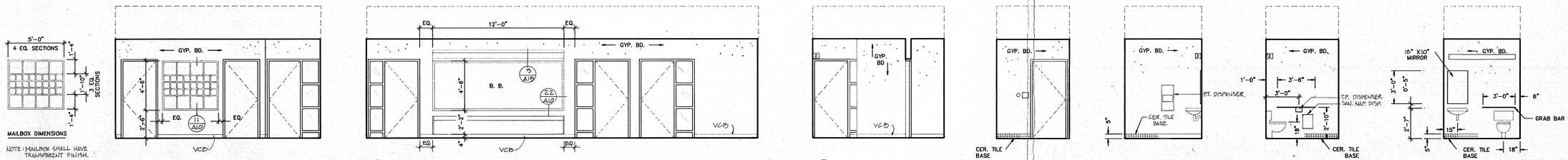
16/A5 NURSE'S ROOM ROOM 25
17/A5 NURSE'S ROOM ROOM 25
18/A5 NURSE'S ROOM ROOM 25
19/A5 NURSE'S ROOM ROOM 25
20/A5 CONFERENCE ROOM ROOM 26

NOTE: MILLWORK IN NURSE'S ROOM 25 SHALL BE PLAS. LAMINATE ON ALL EXPOSED SURFACES, INTERIOR AND EXTERIOR.

NOTE: MILLWORK IN CONF. ROOM 26 SHALL HAVE TRANSPARENT FINISH.



21/A5 CONFERENCE ROOM ROOM 26
22/A5 CONFERENCE ROOM ROOM 26
23/A5 CONFERENCE ROOM ROOM 26
24/A5 PRINCIPAL'S OFFICE ROOM 27
25/A5 PRINCIPAL'S OFFICE ROOM 27
26/A5 PRINCIPAL'S OFFICE ROOM 27
27/A5 PRINCIPAL'S OFFICE ROOM 27
29/A5 CORRIDOR ROOM 23



NOTE: MAILBOX SHALL HAVE TRANSPARENT FINISH.

28/A5 CORRIDOR ROOM 23
30/A5 CORRIDOR ROOM 23
31/A5 CORRIDOR ROOM 23
32/A5 H. C. TOILET RM. ROOM 14
33/A5 H. C. TOILET RM. ROOM 14
34/A5 H. C. TOILET RM. ROOM 14
35/A5 H. C. TOILET RM. ROOM 14

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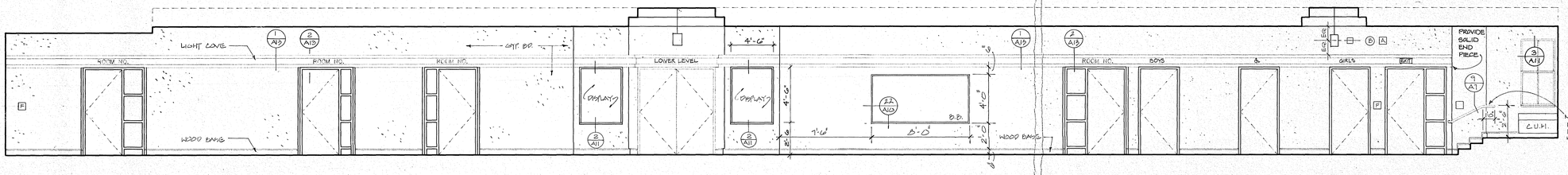
C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
7 SOUTH MAIN STREET, WEST HARTFORD, CT 06710 (203) 233-8526

CONSULTANTS
MECHANICAL & ELECTRICAL: BURTON & VAN HOUTEN ENGINEERS, INC.
10 NORTH MAIN STREET, WEST HARTFORD, CT 06107 (203) 236-2365
STRUCTURAL: GIRARD & CO. ENGINEERS
40 WETHERSFIELD AVENUE, HARTFORD, CT 06114 (203) 524-1594

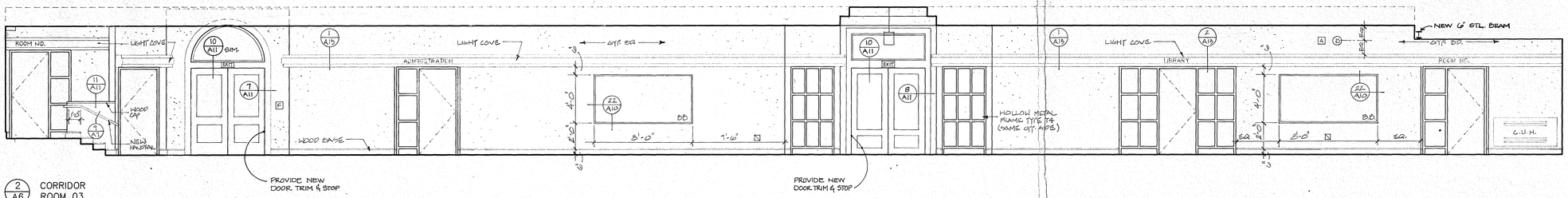
ADMINISTRATION AREA – ENLARGED PLAN & ELE'VS

SCALE: 1/4" = 1'-0"
DRAWN BY: BH
DATE: 01 SEPT '80
REVISED:

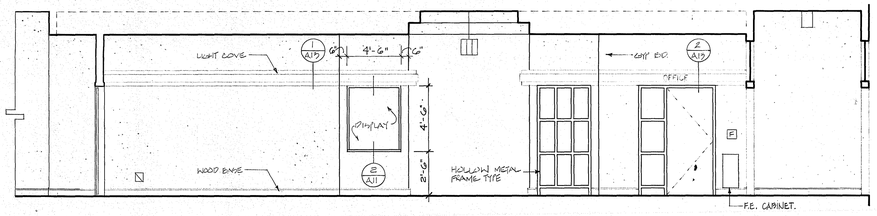
A5



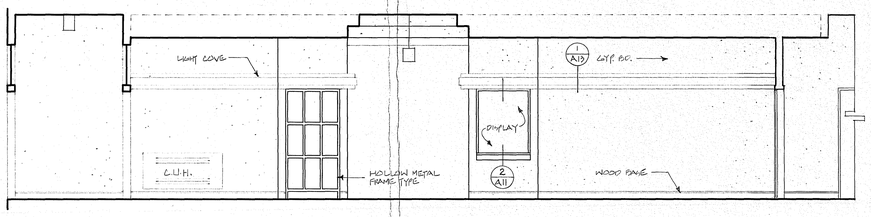
1/A6 CORRIDOR ROOM 03



2/A6 CORRIDOR ROOM 03

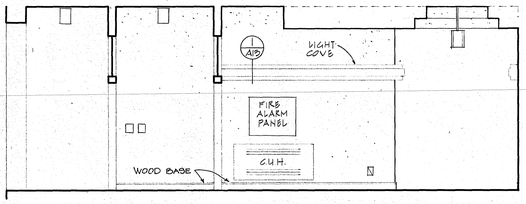


3/A6 CORRIDOR & VESTIBULE ROOMS 01 & 02

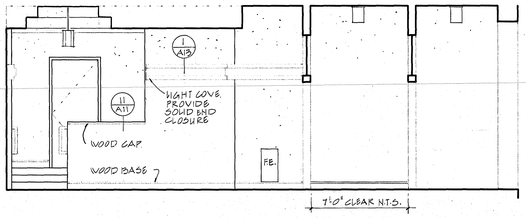


4/A6 CORRIDOR & VESTIBULE ROOMS 01 & 02

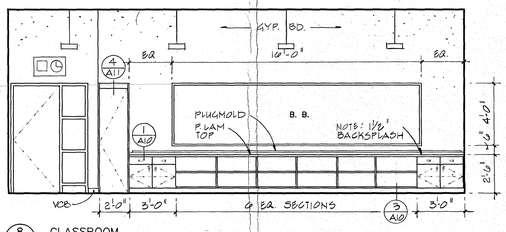
5/A6 CORRIDOR ROOM 03



6/A6 CORRIDOR & VESTIBULE ROOMS 21 & 22

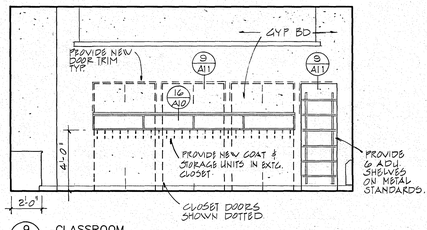


7/A6 CORRIDOR & VESTIBULE ROOMS 21 & 22

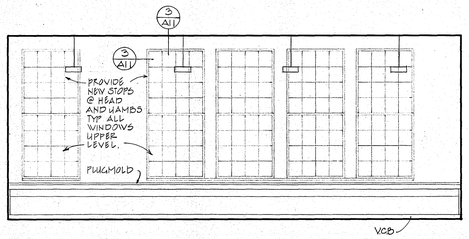


8/A6 CLASSROOM ROOM 09

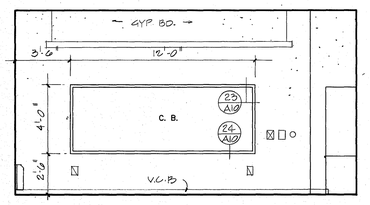
NOTE: MILLWORK IN CLASSROOM 09 SHALL HAVE TRANSPARENT FINISH. COUNTERTOP SHALL BE PLAS. LAMINATE WITH HARDWOOD EDGE.



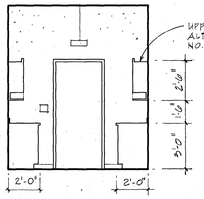
9/A6 CLASSROOM ROOM 09



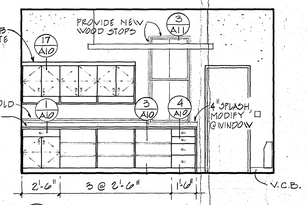
10/A6 CLASSROOM ROOM 09



11/A6 CLASSROOM ROOM 09

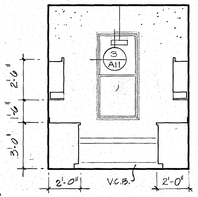


12/A6 GENERAL STORAGE ROOM 16

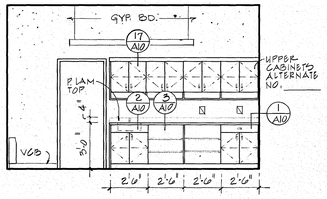


13/A6 GENERAL STORAGE ROOM 16

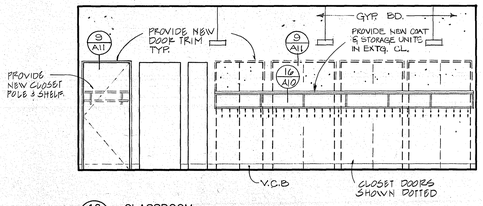
NOTE: MILLWORK IN STORAGE ROOM 16 SHALL HAVE TRANSPARENT FINISH. COUNTERTOP SHALL BE PLAS. LAMINATE WITH HARDWOOD EDGE.



14/A6 GENERAL STORAGE ROOM 16

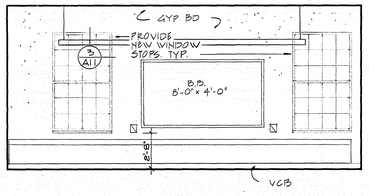


15/A6 GENERAL STORAGE ROOM 16

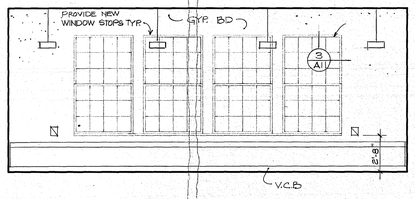


16/A6 CLASSROOM ROOM 17

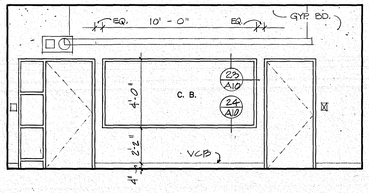
NOTE: MILLWORK IN CLASSROOM 17 SHALL HAVE TRANSPARENT FINISH.



17/A6 CLASSROOM ROOM 17



18/A6 CLASSROOM ROOM 17



19/A6 CLASSROOM ROOM 17

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C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
7 SOUTH MAIN STREET, WEST HARTFORD, CT 06710 (203) 233-8526

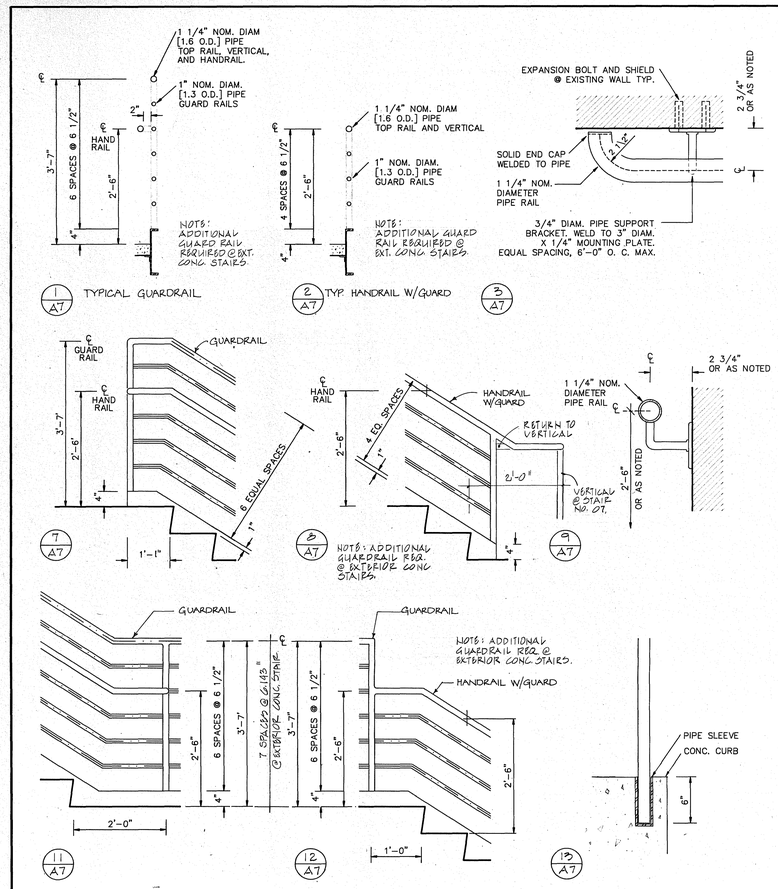
STATE OF CONNECTICUT · CARROLL JAMES LAWLER JR. · NO. 2582 · REGISTERED ARCHITECT

CONSULTANTS
MECHANICAL & ELECTRICAL: BURTON & VAN HOUTEN ENGINEERS, INC.
10 NORTH MAIN STREET, WEST HARTFORD, CT 06107 (203) 236-2385
STRUCTURAL: GIRARD & CO. ENGINEERS
40 WETHERSFIELD AVENUE, HARTFORD, CT 06114 (203) 524-1594

INTERIOR ELEVATIONS

SCALE: 1/4" = 1'-0"
DRAWN BY: BJH
DATE: 01 SEPT. '80
REVISED:

A6



1/A7 TYPICAL GUARDRAIL

2/A7 TYP. HANDRAIL W/GUARD

3/A7

7/A7

8/A7 NOTE: ADDITIONAL GUARDRAIL REQ. @ EXTERIOR CONC STAIRS.

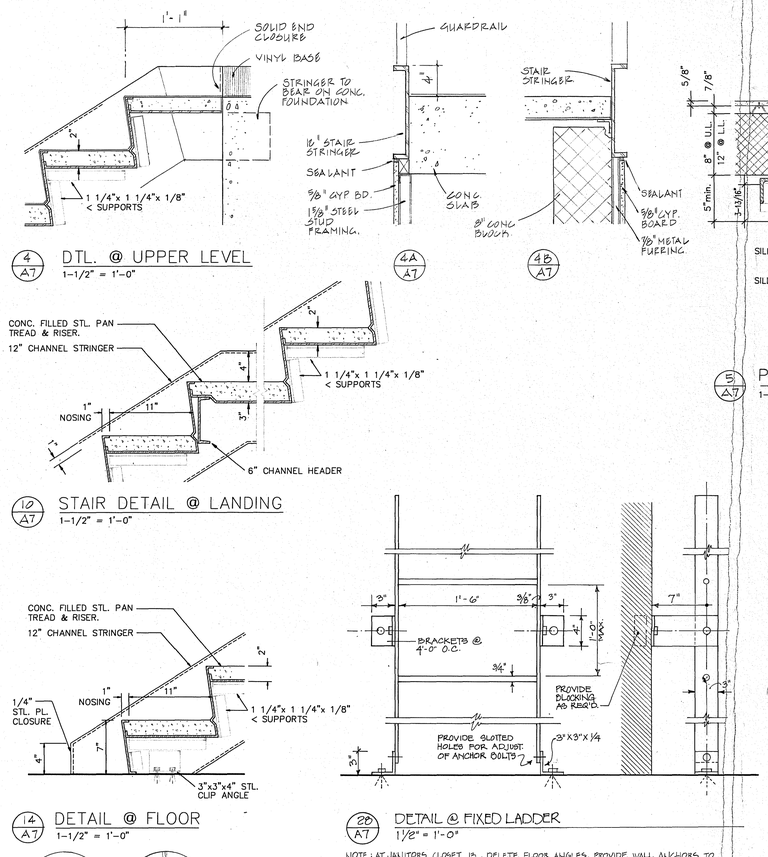
9/A7

11/A7

12/A7

13/A7

TYPICAL RAILING DETAILS
3/4" = 1'-0".



4/A7 DTL. @ UPPER LEVEL
1-1/2" = 1'-0"

4A/A7

4B/A7

5/A7 PLAN – ELEV. DTL.
1-1/2" = 1'-0"

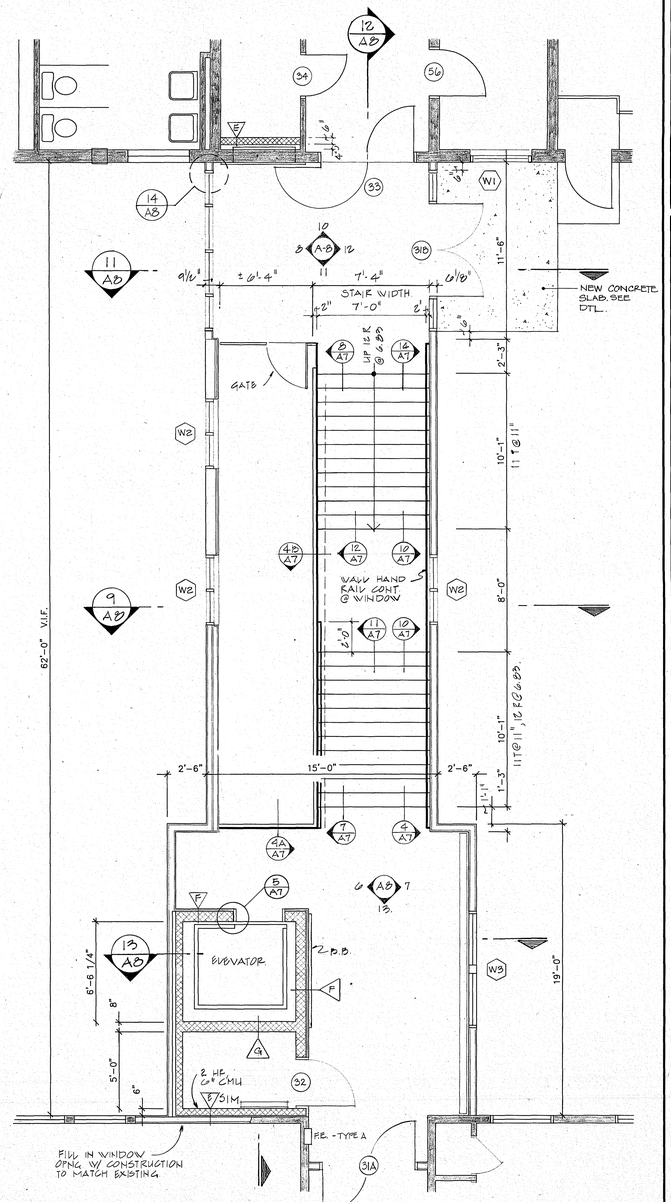
6/A7 SECTION – ELEV. DTL.
1-1/2" = 1'-0"

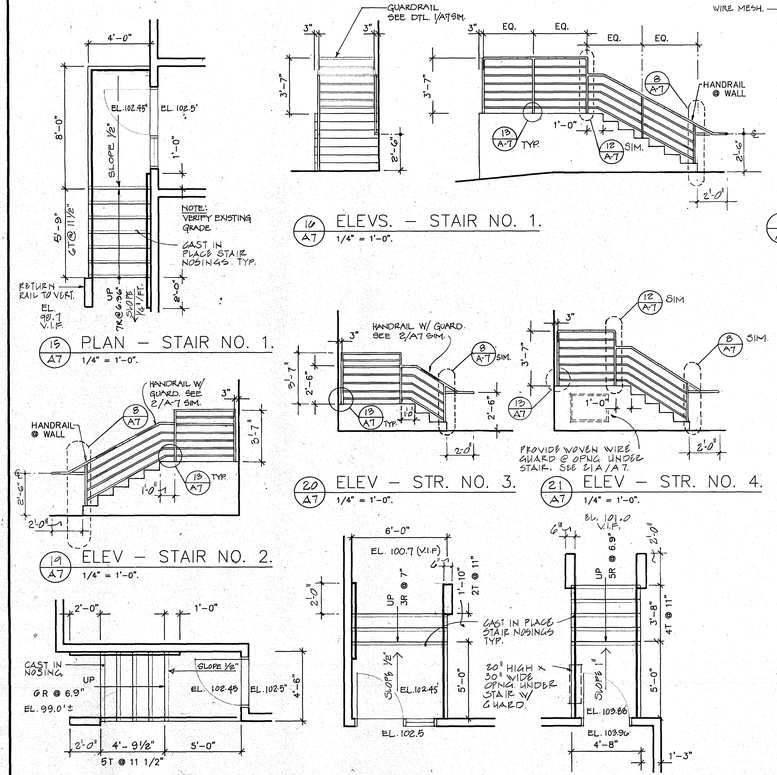
10/A7 STAIR DETAIL @ LANDING
1-1/2" = 1'-0"

14/A7 DETAIL @ FLOOR
1-1/2" = 1'-0"

20/A7 DETAIL @ FIXED LADDER
1 1/2" = 1'-0"

NOTE: AT JANITORS CLOSET 13, DELETE FLOOR ANGLES. PROVIDE WALL ANCHORS TO SUPPORT LADDER. HOLD BOTTOM OF LADDER 12" ABOVE FINISH FLOOR.





15/A7 PLAN – STAIR NO. 1.
1/4" = 1'-0".

16/A7 ELEVS. – STAIR NO. 1.
1/4" = 1'-0".

17/A7 ELEVS. – STAIR NO. 9. NOS. 8 & 10 SIM.
1/4" = 1'-0".

18/A7 ELEV – STAIR NO. 12.
1/4" = 1'-0".

19/A7 ELEV – STAIR NO. 2.
1/4" = 1'-0".

20/A7 ELEV – STR. NO. 3.
1/4" = 1'-0".

21/A7 ELEV – STR. NO. 4.
1/4" = 1'-0".

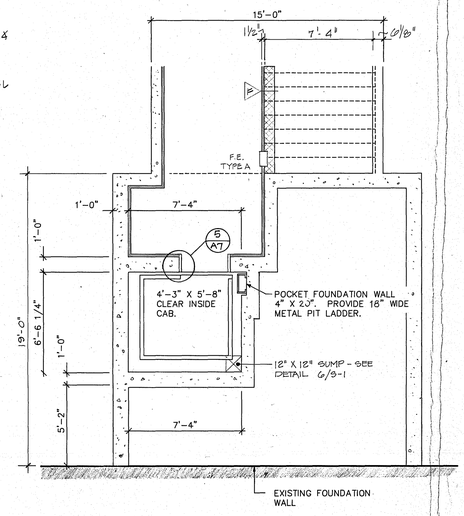
21A/A7 GUARD DTL.

22/A7 PLAN – STR. NO. 2.
1/4" = 1'-0".

23/A7 PLAN – STR. NO. 3.
1/4" = 1'-0".

24/A7 PLAN – STR. NO. 4.
1/4" = 1'-0".

25/A7 ELEVS. – STAIR NO. 6.
1/4" = 1'-0".



26/A7 ENLARGED PLAN – LOWER LEVEL ELEVATOR
1/4" = 1'-0".

27/A7 ENLARGED PLAN – STAIR NO. 7 ELEVATOR
1/4" = 1'-0".

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ARCHITECTS & PLANNERS
7 SOUTH MAIN STREET, WEST HARTFORD, CT 06710 (203) 233-8526

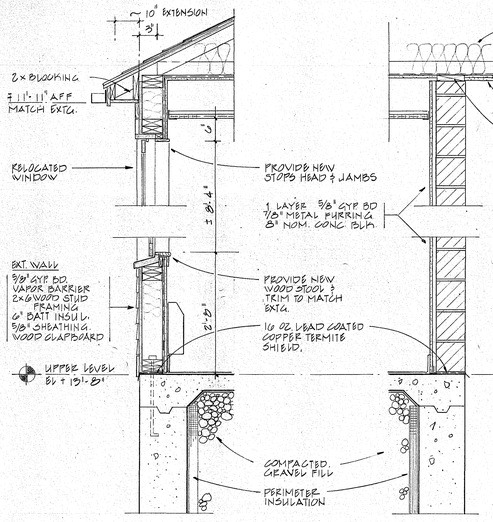
STATE OF CONNECTICUT CHARLES JOSEF LAWLER JR. NO. 2592 REGISTERED ARCHITECT

CONSULTANTS
MECHANICAL & ELECTRICAL : BURTON & VAN HOUTEN ENGINEERS, INC.
10 NORTH MAIN STREET, WEST HARTFORD, CT 06107 (203) 236-2365
STRUCTURAL : GIRARD & CO. ENGINEERS
40 WETHERSFIELD AVENUE, HARTFORD, CT 06114 (203) 524-1594

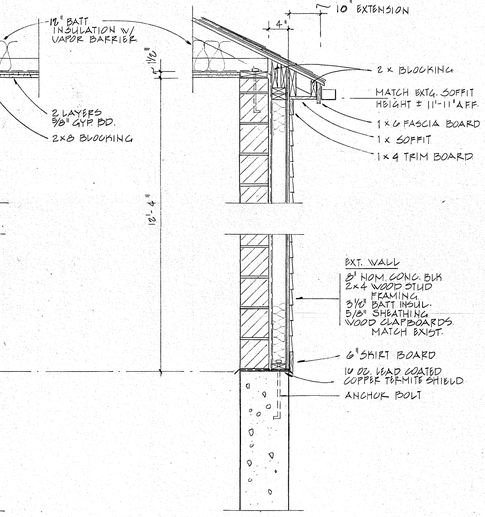
STAIR PLANS, ELEVS. & DETAILS

SCALE : AS NOTED
DRAWN BY : D.H., M.G.
DATE : 01 SEPT. '80
REVISED :

A7

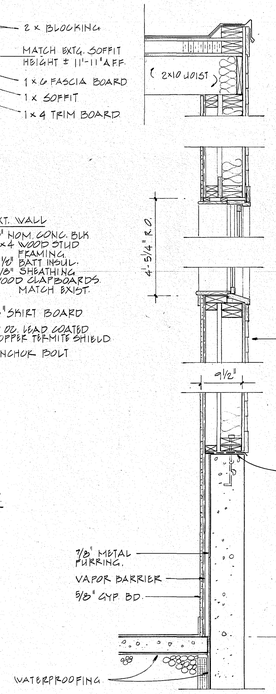


1 / A8 EXT. WALL @ UPPER LEVEL
3/4" = 1'-0".

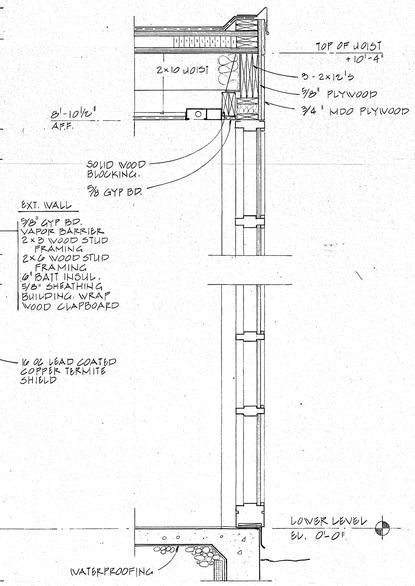


2 / A8 INT. WALL SECTION @ ELEV.
3/4" = 1'-0".

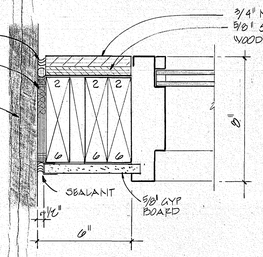
3 / A8 WALL SECTION @ ELEV.
3/4" = 1'-0".



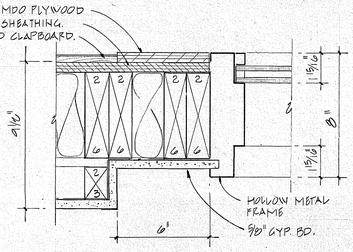
4 / A8 WALL SECTION @ STAIR
3/4" = 1'-0".



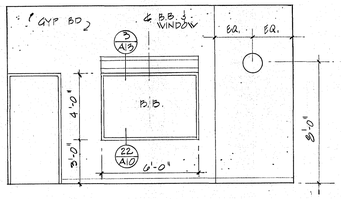
5 / A8 EXT. WALL @ LOWER LEVEL
3/4" = 1'-0".



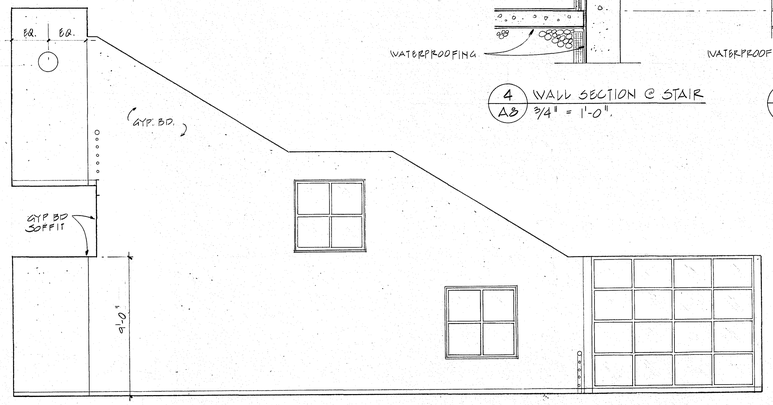
14 / A8 DTL. @ EXISTING WALL
3" = 1'-0".



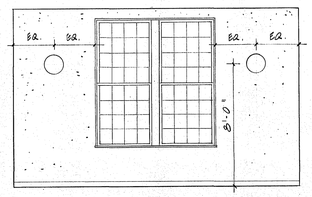
15 / A8 DTL. @ FRAME
3" = 1'-0".



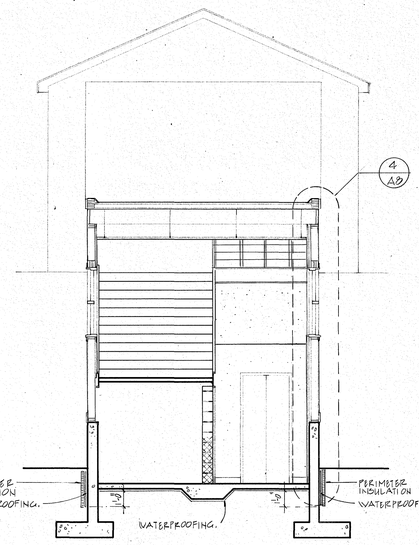
6 / A8 INT. ELEV.
1/4" = 1'-0".



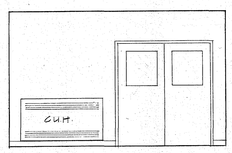
8 / A8 INT. ELEV.
1/4" = 1'-0".



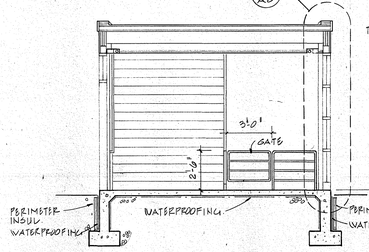
7 / A8 INT. ELEV.
1/4" = 1'-0".



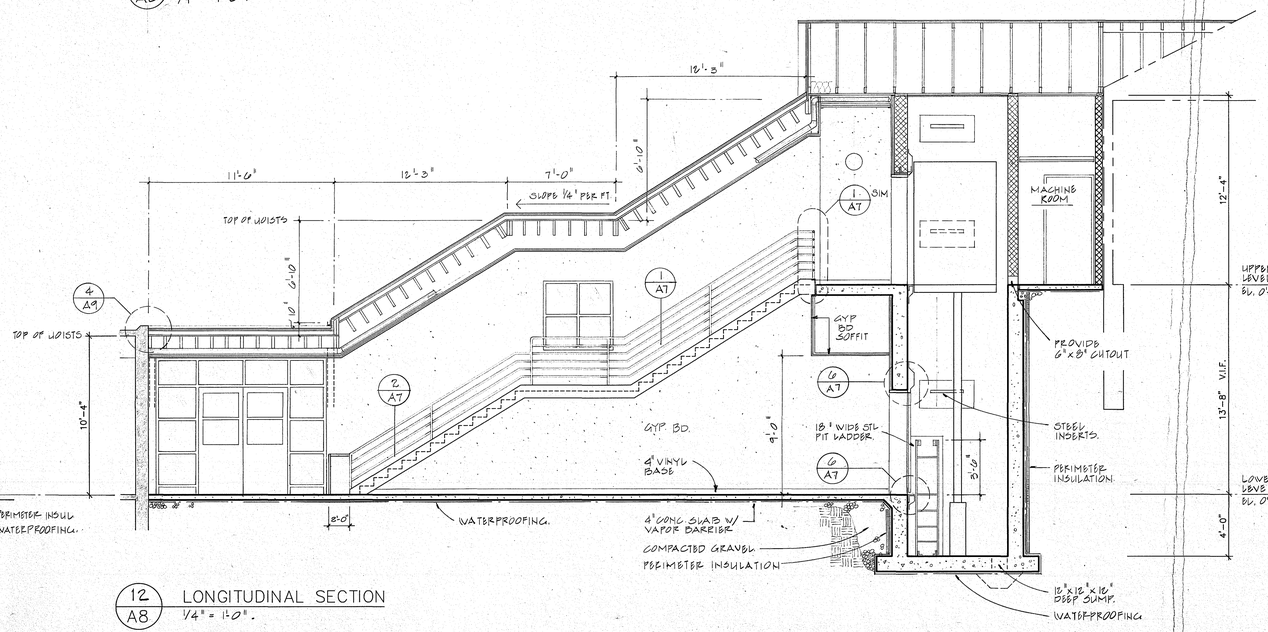
9 / A8 CROSS SECTION
1/4" = 1'-0".



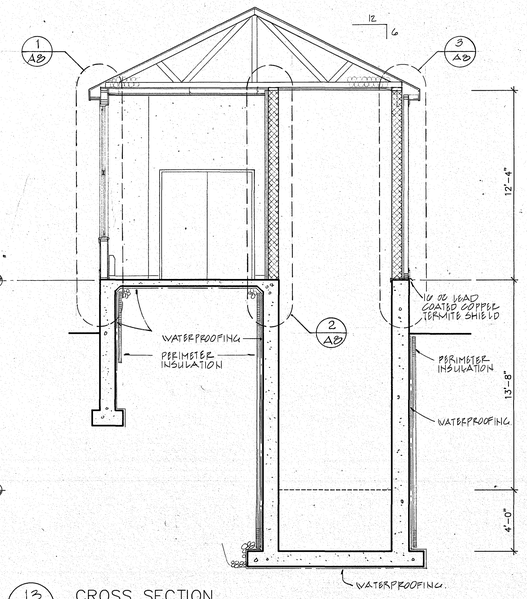
10 / A8 INT ELEV.
1/4" = 1'-0".



11 / A8 CROSS SECTION
1/4" = 1'-0".



12 / A8 LONGITUDINAL SECTION
1/4" = 1'-0".



13 / A8 CROSS SECTION
1/4" = 1'-0".

C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
7 SOUTH MAIN STREET, WEST HARTFORD, CT 06710 (203) 233-8526

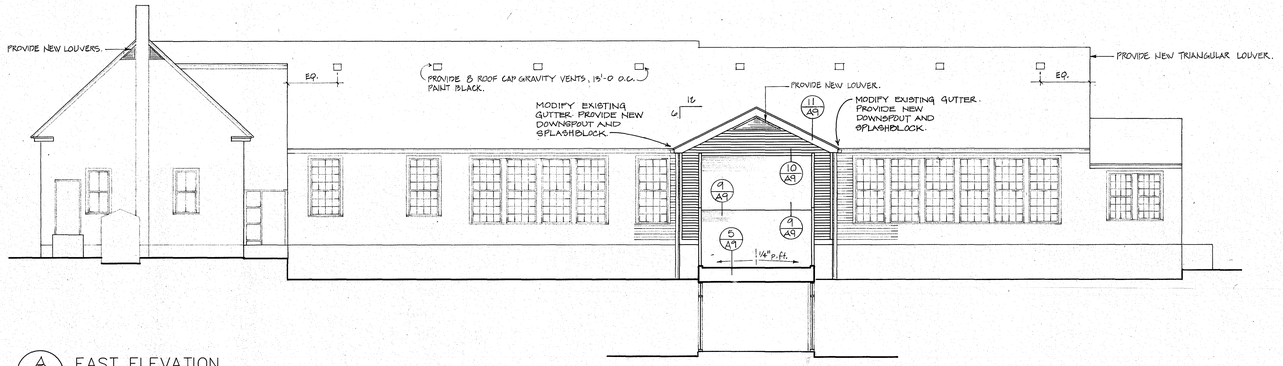
CONSULTANTS
MECHANICAL & ELECTRICAL : BURTON & VAN HOUTEN ENGINEERS, INC.
10 NORTH MAIN STREET, WEST HARTFORD, CT 06107 (203) 236-2365
STRUCTURAL : GIRARD & CO. ENGINEERS
40 WETHERSFIELD AVENUE, HARTFORD, CT 06114 (203) 524-1594

SECTIONS & DETAILS

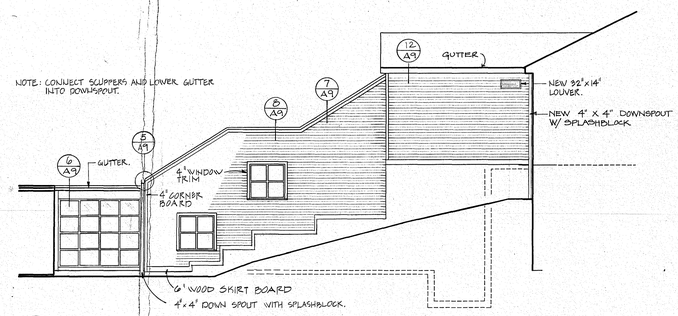
SCALE : AS NOTED
DRAWN BY : B.H., M.G.
DATE : 01 SEPT. '00
REVISED :

A8

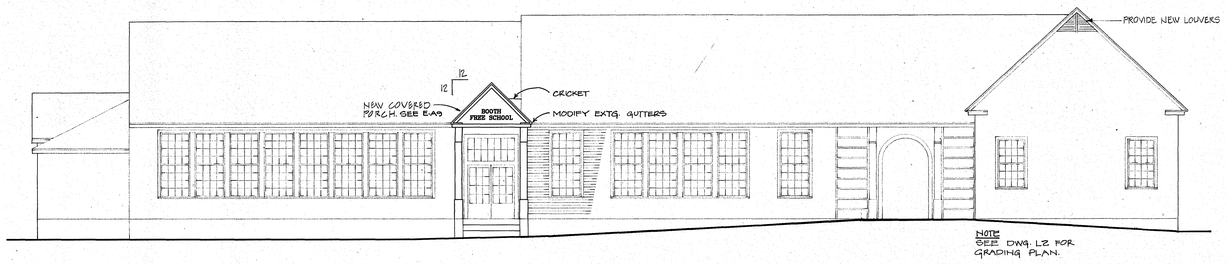
BOOTH FREE SCHOOL • ROXBURY



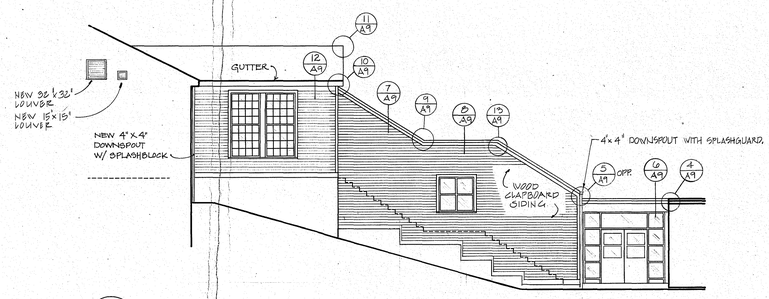
A/A9 EAST ELEVATION
1/8" = 1'-0".



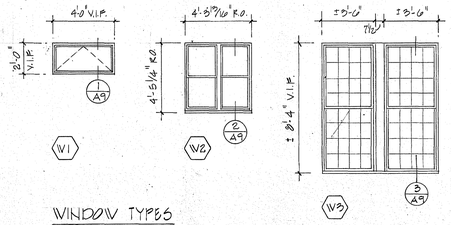
B/A9 NORTH ELEVATION
1/8" = 1'-0".



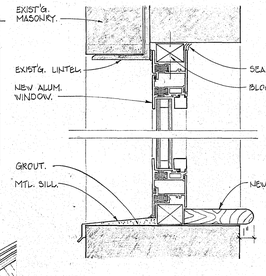
C/A9 WEST ELEVATION
1/8" = 1'-0".



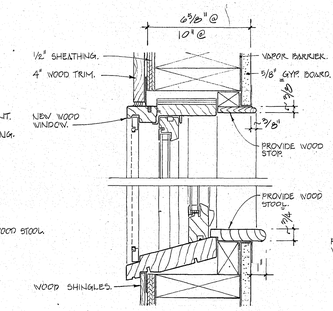
D/A9 SOUTH ELEVATION
1/8" = 1'-0".



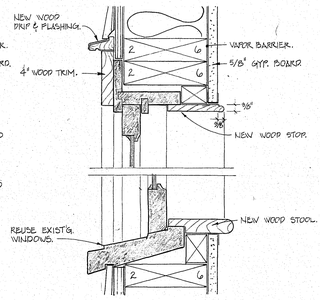
WINDOW TYPES



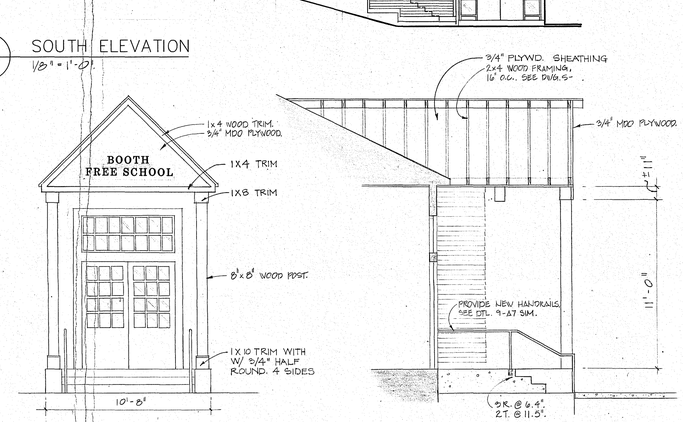
1/A9



2/A9

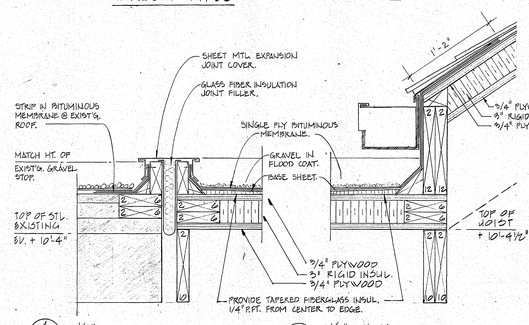


3/A9

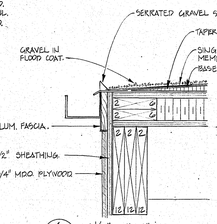


E/A9 PORCH ELEVATION
1/4" = 1'-0".

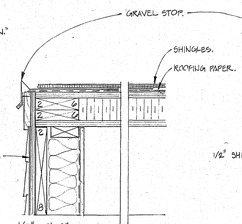
F/A9 PORCH SECTION
1/4" = 1'-0".



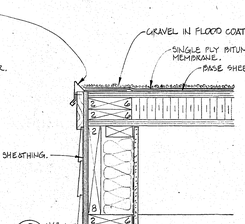
4/A9 1 1/2" = 1'-0"
5/A9 1 1/2" = 1'-0"



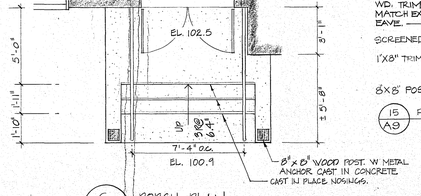
6/A9 1 1/2" = 1'-0"



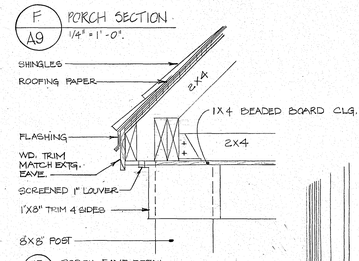
7/A9 1 1/2" = 1'-0"



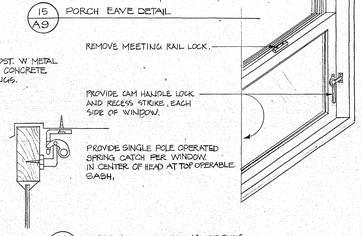
8/A9 1 1/2" = 1'-0"



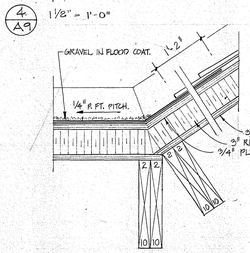
G/A9 PORCH PLAN
1/4" = 1'-0".



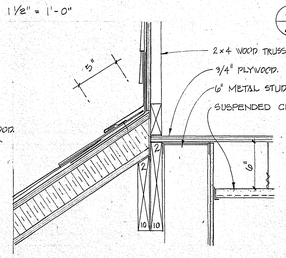
15/A9 PORCH EAVE DETAIL



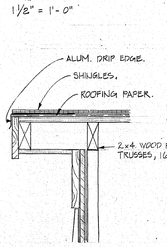
14/A9 WINDOW LOCK LOWERING DETAILS.
N.T.S.



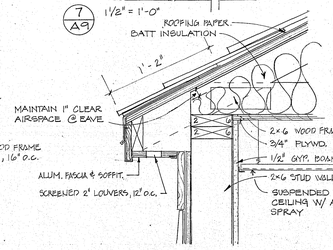
9/A9 1 1/2" = 1'-0"



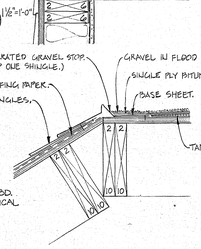
10/A9 1 1/2" = 1'-0"



11/A9 1 1/2" = 1'-0"



12/A9 1 1/2" = 1'-0"



13/A9 1 1/2" = 1'-0

C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
7 SOUTH MAIN STREET, WEST HARTFORD, CT 06710 (203) 233-8526

STATE OF CONNECTICUT
CHARLES J. LAWLER, JR.
NO. 2592
REGISTERED ARCHITECT

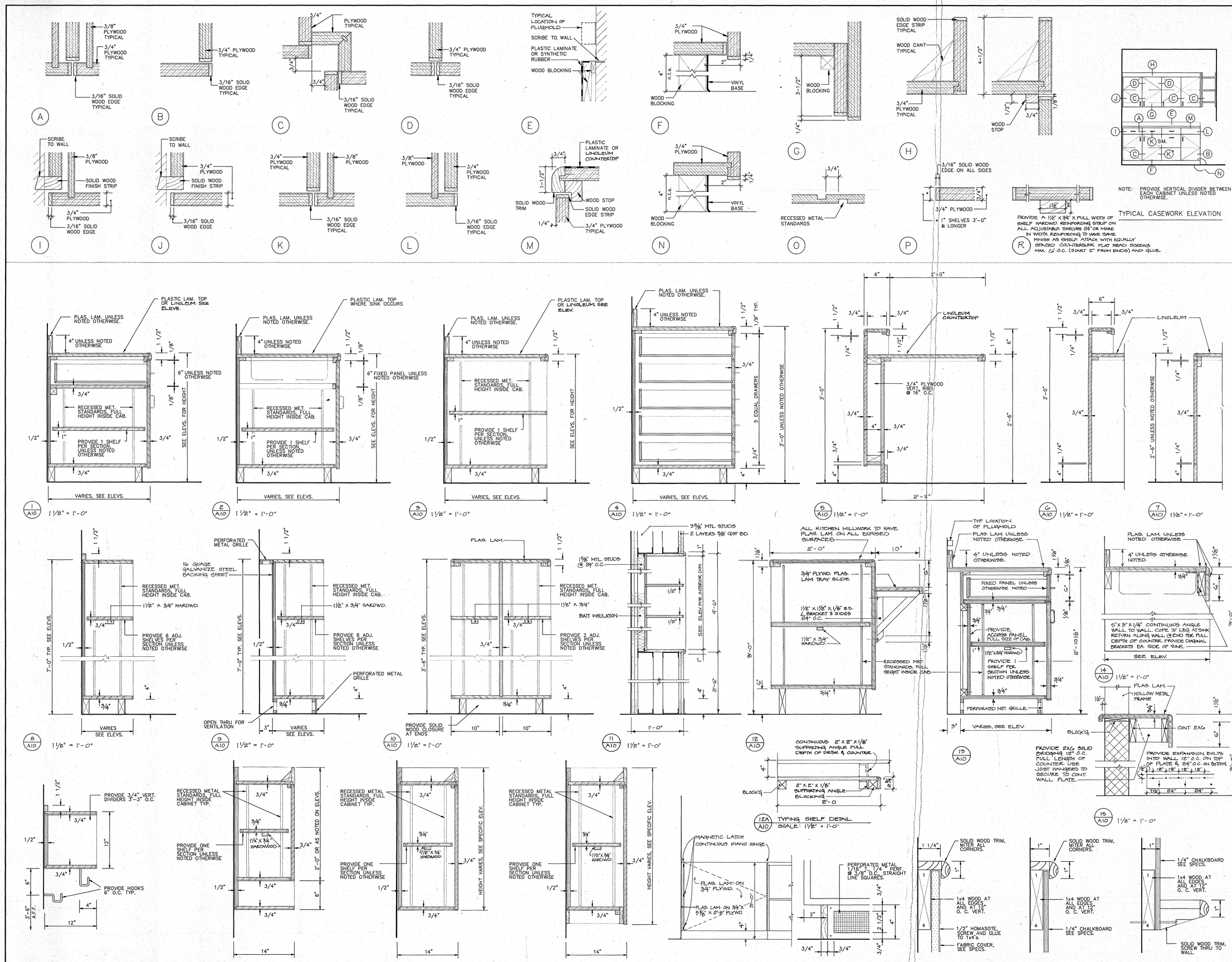
CONSULTANTS
MECHANICAL & ELECTRICAL : BURTON & VAN HOUTEN ENGINEERS, INC.
10 NORTH MAIN STREET, WEST HARTFORD, CT 06107 (203) 236-2865
STRUCTURAL : GIRARD & CO. ENGINEERS
40 WETHERSFIELD AVENUE, HARTFORD, CT 06114 (203) 524-1594

BOOTH FREE SCHOOL • ROXBURY

ELEVATIONS & DETAILS

SCALE : AS NOTED
DRAWN BY : B.H., M.G.
DATE : 01 SEPT. '88
REVISED :

A9



STATE OF CONNECTICUT · GARDNER JAMES LAWLER, JR. · NO. 2552 · REGISTERED ARCHITECT

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

CONSULTANTS

MECHANICAL & ELECTRICAL: BURTON & VAN HOUTEN ENGINEERS, INC.
10 NORTH MAIN STREET, WEST HARTFORD, CT 06107 (203) 236-2365

STRUCTURAL: GIRARD & CO. ENGINEERS
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BOOTH FREE SCHOOL · ROXBURY

CASEWORK DETAILS

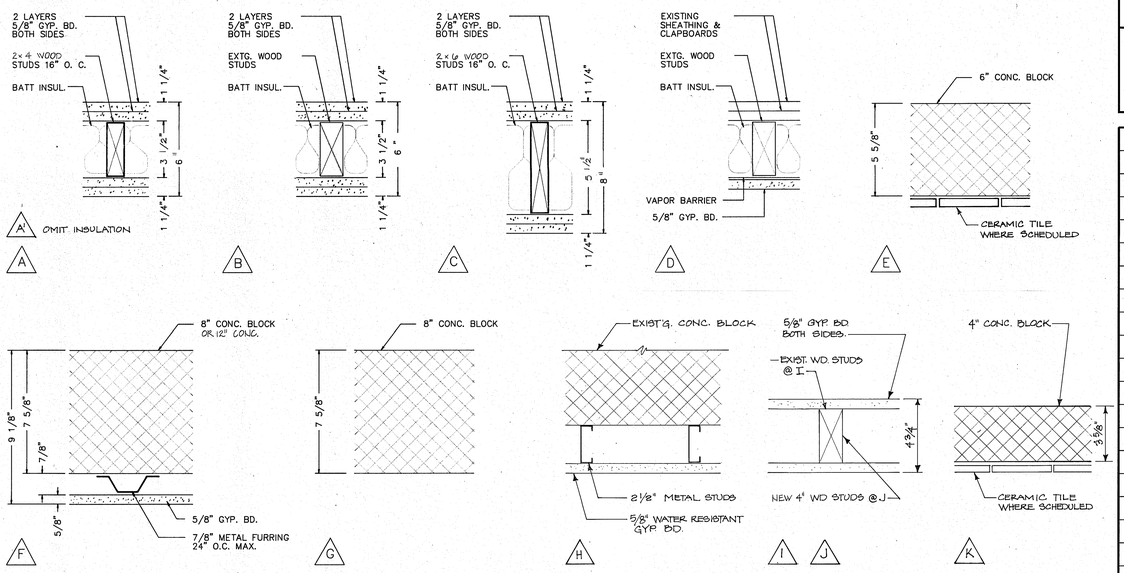
SCALE: AS NOTED

DATE: 01 SEPT. '88

DRAWN BY: B.H., J.G.

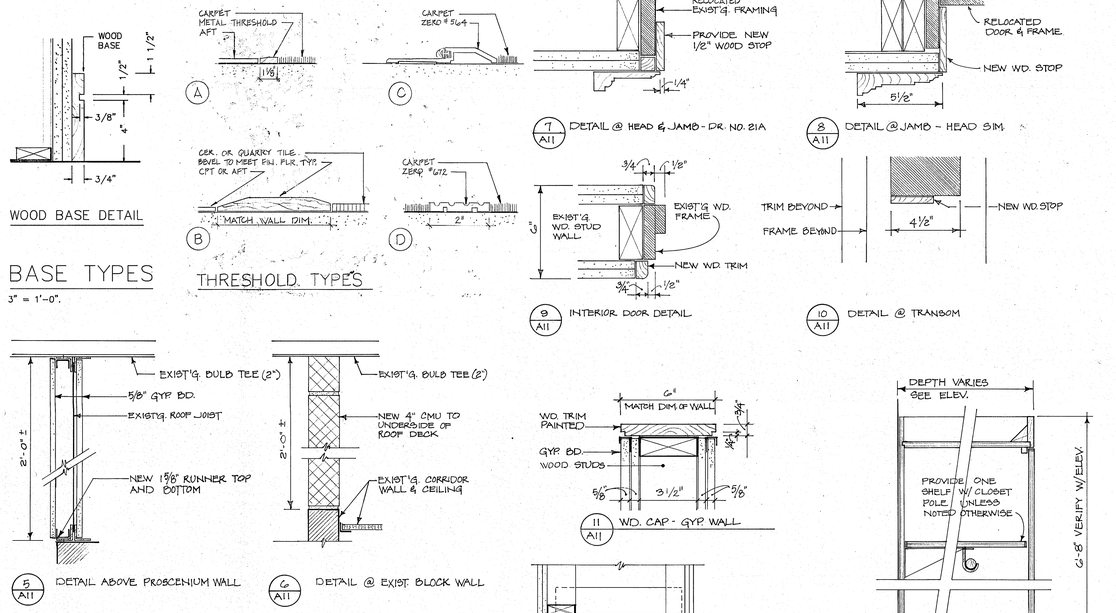
REVISED:

A10



PARTITION TYPES

3" = 1'-0".



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
B1	BOILER RM.	CONC.	—	—	—	—	—	—	—	—	—	—	—	—	—	GYB./PT *	EXIST.	PROVIDE GYPSUM BOARD FIREPROOFING OF BEAM AND COLUMNS.
01	VESTIBULE	PATCH EXIST.	AFT	WD	WD	WD	WD	GYB	PT	GYB	PT	GYB	PT	GYB	PT	GYB./PT	12'-0"	
02	CORRIDOR	EXIST.	AFT	WD	WD	WD	WD	GYB	PT	GYB	PT	GYB	PT	GYB	PT	GYB. W/SPRAY ACOUS.	10'-6"	GYB/PT @ COFFER.
03	CORRIDOR	EXIST.	AFT	WD	WD	WD	WD	GYB	PT	GYB	PT	GYB	PT	GYB	PT	"	10'-6"	GYB/PT @ COFFER.
04	LIBRARY	EXIST.	CPT	VCB	VCB	VCB	VCB	GYB	PT	GYB	PT	GYB	PT	GYB	PT	"	12'-0"	
05	SMALL GROUP INST.	EXIST.	CPT	VCB	VCB	VCB	VCB	GYB	PT	GYB	PT	GYB	PT	GYB	PT	"	9'-0"	
06	SMALL GROUP INST.	EXIST.	CPT	VCB	VCB	VCB	VCB	GYB	PT	GYB	PT	GYB	PT	GYB	PT	"	10'-0"	
07	SMALL GROUP INST.	EXIST.	CPT	VCB	VCB	VCB	VCB	GYB	PT	GYB	PT	GYB	PT	GYB	PT	"	12'-0"	
08	SMALL GROUP INST.	EXIST.	CPT	VCB	VCB	VCB	VCB	GYB	PT	GYB	PT	GYB	PT	GYB	PT	"	12'-0"	
09	CLASSROOM	EXIST.	CPT	VCB	VCB	VCB	VCB	EXIST	PT	EXIST	PT	GYB	PT	GYB	PT	"	12'-0"	
10	CLOSET	EXIST.	CPT	VCB	VCB	VCB	VCB	GYB	PT	EXIST	PT	EXIST	PT	EXIST	PT	GYB/PT	8'-0"	
11	CLOSET	EXIST.	CPT	VCB	VCB	VCB	VCB	GYB	PT	EXIST	PT	GYB	PT	EXIST	PT	GYB/PT	8'-0"	
12	BOY'S ROOM	EXIST.	EXIST.	—	—	—	—	EXIST	PT	EXIST GYB	PT	GYB	PT	GYB	PT	GYB./PT.	12'-0"	
13	JANITOR'S CLOSET	PATCH EXIST.	CT	CT	CT	CT	CT	GYB	PT	GYB	PT	GYB	PT	GYB	PT	GYB./PT.	12'-0"	
14	H.C. TOILET RM.	PATCH EXIST.	CT	CT	CT	CT	CT	GYB	PT	GYB	PT	GYB	PT	GYB	PT	SUSPENDED ACOUS. TILE	8'-0"	
15	GIRL'S RM.	EXIST.	EXIST.	—	—	—	—	EXIST GYB	PT	GYB	PT	GYB	PT	GYB	PT	GYB/PT.	12'-0"	
16	STORAGE	EXIST.	AFT	VCB	VCB	VCB	VCB	GYB	PT	GYB	PT	GYB	PT	EXIST	PT	GYB/PT	11'-7"	
17	CLASSROOM	EXIST.	CPT	VCB	VCB	VCB	VCB	EXIST	PT	GYB	PT	EXIST	PT	GYB	PT	GYB W/SPRAY ACOUS.	11'-7"	
18	CLOSET	EXIST.	CPT	VCB	VCB	VCB	VCB	GYB	PT	EXIST	PT	GYB	PT	EXIST	PT	GYB/PT	8'-0"	
19	TOILET ROOM	EXIST.	AFT	VCB	VCB	VCB	VCB	GYB	PT	EXIST	PT	GYB	PT	GYB	PT	GYB/PT.	EXIST.	
20	CLOSET	EXIST.	CPT	VCB	VCB	VCB	VCB	GYB	PT	EXIST	PT	EXIST	PT	GYB	PT	GYB/PT	8'-0"	
21	CORRIDOR	EXIST.	AFT	WD	WD	WD	WD	GYB	PT	GYB	PT	GYB	PT	GYB	PT	GYB W/SPRAY ACOUS.	10'-6"	GYB/PT @ COFFER.
22	VESTIBULE	EXIST.	AFT	WD	WD	WD	WD	GYB	PT	GYB	PT	GYB	PT	GYB	PT	GYB./PT.	12'-0"	
23	CORRIDOR	PATCH EXIST.	CPT	VCB	VCB	VCB	VCB	GYB	PT	GYB	PT	GYB	PT	GYB	PT	SUSP. ACOUS. TILE	9'-0"	
24	WORKROOM	PATCH EXIST.	CPT	VCB	VCB	VCB	VCB	GYB	PT	GYB	PT	GYB	PT	GYB	PT	SUSP. ACOUS. TILE	9'-0"	
25	NURSE'S ROOM	PATCH EXIST.	CPT	VCB	VCB	VCB	VCB	GYB	PT	GYB	PT	GYB	PT	GYB	PT	GYB. W/ SPRAY ACOUS.	12'-0"	
26	CONFERENCE ROOM	EXIST.	CPT	VCB	VCB	VCB	VCB	GYB	PT	GYB	PT	GYB	PT	GYB	PT	GYB. W/ SPRAY ACOUS.	12'-0"	
27	PRINCIPAL'S OFF.	EXIST.	CPT	VCB	VCB	VCB	VCB	GYB	PT	GYB	PT	GYB	PT	GYB	PT	GYB. W/ SPRAY ACOUS.	12'-0"	
28	SECRETARY'S OFF.	EXIST.	CPT	VCB	VCB	VCB	VCB	GYB	PT	GYB	PT	GYB	PT	GYB	PT	SUSP. ACOUS. TILE	9'-0"	
29	STORAGE	EXIST.	AFT	VCB	VCB	VCB	VCB	GYB	PT	GYB	PT	GYB	PT	GYB	PT	SUSP. ACOUS. TILE	9'-0"	
30	TOILET ROOM	PATCH EXIST.	CT	CT	CT	CT	CT	GYB	PT	GYB	PT	GYB	PT	GYB	PT	SUSPENDED ACOUS. TILE	9'-0"	
31	STAIR CORRIDOR	CONC.	AFT	VCB	VCB	VCB	VCB	GYB	PT	GYB	PT	GYB	PT	GYB	PT	SUSP. ACOUST. TILE, GYP/PT.	VARIES, SEE SECTION	RUBBER TREADS & RISERS.
32	ELEV. MACH. ROOM	CONC.	AFT	VCB	VCB	VCB	VCB	CONC BLK	PT	CONC BLK	PT	CONC BLK	PT	CONC BLK	PT	GYP./PT.	12'-0"	
*	ELEVATOR SHAFT	CONC.	—	CONC	CONC	CONC	CONC	CONC BLK	—	CONC BLK	—	CONC BLK	—	CONC BLK	—	GYP./PT.	SEE SECTION	
33	CORRIDOR	EXIST.	AFT	VCB	VCB	VCB	VCB	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	SUSPENDED ACOUS. TILE	8'-0"	
34	STORAGE	EXIST.	EXIST.	—	—	—	VCB	EXIST	PT	EXIST	PT	EXIST	PT	CONC. BLK.	PT	SUSPENDED GYB/PT.	EXIST.	RE-USE EXIST'G CEILING FRAMING
35	STORAGE	EXIST.	EXIST.	—	—	—	—	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	—	
36	CORRIDOR	EXIST.	AFT	VCB	VCB	VCB	VCB	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	SUSPENDED ACOUS. TILE	8'-0"	
37	GIRL'S ROOM	EXIST.	PATCH EXIST.	CT	—	CT	—	CONC. BLK.	TILE PAINT	EXIST	PT	CONC BLK	TILE PAINT	EXIST	PT.	PATCH EXIST/PT	—	TILE WAINSCOT TO MATCH EXIST. PATCH FLOOR TILE TO MATCH EXISTING
38	H.C. TOILET ROOM	EXIST.	CT	CT	CT	CT	CT	CONC BLK	PT	CONC BLK	PT	CONC BLK	PT	CONC BLK	PT	SUSPENDED ACOUS. TILE	8'-0"	
39	JANITOR'S CLOSET	EXIST.	CT	CT	CT	CT	CT	CONC BLK	PT	CONC BLK	PT	CONC BLK	PT	CONC BLK	PT	SUSPENDED ACOUS. TILE	8'-0"	
40	BOY'S ROOM	PATCH EXIST.	CT	EXIST	CT	CT	EXIST	EXIST	PT	CONC. BLK.	TILE PT.	CONC BLK.	TILE PT.	EXIST	PT	PATCH EXIST/PT	—	TILE WAINSCOT TO MATCH EXIST. PATCH FLOOR TILE TO MATCH EXISTING
41	KITCHEN	PATCH EXIST.	AFT	VCB	VCB	VCB	VCB	EXIST	PT	EXIST	PT	CONC BLK	PT	EXIST	PT	SUSPENDED ACOUS. TILE	8'-11"	
42	DISHWASH AREA	PATCH EXIST.	AFT	VCB	VCB	VCB	VCB	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	SUSPENDED ACOUS. TILE	8'-0"	
43	TOILET ROOM	PATCH EXIST.	AFT	VCB	VCB	VCB	VCB	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	—	PATCH & PAINT EXIST. CLG.
44	STORAGE	EXIST.	AFT	VCB	VCB	VCB	VCB	EXIST	PT	CONC BLK	PT	EXIST	PT	CONC BLK	PT	SUSPENDED ACOUS. TILE	8'-11"	
45	VESTIBULE	EXIST.	AFT	VCB	VCB	VCB	VCB	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	SUSPENDED ACOUS. TILE	8'-0"	
46	MULTIPURPOSE RM.	EXIST.	EXIST.	VCB	—	VCB	—	EXIST	—	EXIST	PT	EXIST	—	EXIST	—	EXIST	—	PROVIDE NEW VINYL BASE @ EXTERIOR WALLS TO MATCH EXIST.
47	STAGE	EXIST.	EXIST.	—	—	—	—	EXIST	PT	EXIST	—	EXIST	—	EXIST	—	EXIST	—	PAINT WOOD PROSCENIUM WALL W/ INTUMESCENT PAINT BOTH SIDES.
48	CLASSROOM	EXIST.	EXIST.	—	—	—	—	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	EXIST	PAINT EXIST. CLG. GRID. REUSE EXIST. CLG. TILE.
49	CLASSROOM	EXIST.	EXIST.	—	—	—	—	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	SUSPENDED ACOUS. TILE	EXIST	PAINT EXIST. CLG. GRID. PROVIDE NEW ACOUSTIC CLG. TILE.
50	CLASSROOM	EXIST.	EXIST.	—	—	—	—	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	SUSPENDED ACOUS. TILE	EXIST	PAINT EXIST. CLG. GRID. PROVIDE NEW ACOUSTIC CLG. TILE.
51	VESTIBULE	EXIST.	AFT	VCB	VCB	VCB	VCB	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	SUSPENDED ACOUS. TILE	8'-0"	
52	CLASSROOM	EXIST.	EXIST.	—	—	—	—	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	EXIST	PAINT EXIST. CLG. GRID. REUSE TILES. REPLACE 3 DAMAGED TILES.
53	CLASSROOM	EXIST.	EXIST.	—	—	—	—	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	SUSPENDED ACOUS. TILE	EXIST	PAINT EXIST. CLG. GRID. PROVIDE NEW ACOUSTIC CLG. TILE.
54	TEACHER'S ROOM	EXIST.	CPT	VCB	VCB	VCB	VCB	EXIST	PT & FWC	EXIST	PT & FWC	EXIST	PT & FWC	EXIST	PT	SUSPENDED ACOUS. TILE	8'-11"	SEE ELEVS. FOR EXTENT OF FABRIC WALL COV.
55	BOILER ROOM	EXIST.	—	—	—	—	—	EXIST	—	EXIST	—	EXIST	—	EXIST	—	—	—	
56	STORAGE	EXIST.	—	—	—	—	—	EXIST	—	EXIST	—	EXIST	—	EXIST	—	—	—	
	ELEVATOR	—	CPT															

ABBREVIATIONS

ACOUS. TILE — ACOUSTIC TILE
AFT — ASPHALT TILE
CONC. — CONCRETE
CONC. BLK — CONCRETE BLOCK
CPT — CARPET
EXIST — EXISTING
FWC — FABRIC WALL COVERING
GYB — GYPSUM BOARD
PT — PAINT
VCB — VINYL COVE BASE
WD — WOOD
CT — CERAMIC TILE

NOTE: FOR TYPE OF ACOUSTIC TILE, SEE REFLECTED CLG. PLAN.

STATE OF CONNECTICUT — CHARLES JAMES LAWLER, JR. — NO. 2582 — REGISTERED ARCHITECT

C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
7 SOUTH MAIN STREET, WEST HARTFORD, CT 06710 (203) 233-8526

CONSULTANTS
MECHANICAL & ELECTRICAL: BURTON & VAN HOUTEN ENGINEERS, INC.
10 NORTH MAIN STREET, WEST HARTFORD, CT 06107 (203) 236-2365
STRUCTURAL: GIRARD & COMPANY ENGINEERS
40 WETHERSFIELD AVE., HARTFORD, CT 06114 (203) 524-8196

BOOTH FREE SCHOOL • ROXBURY

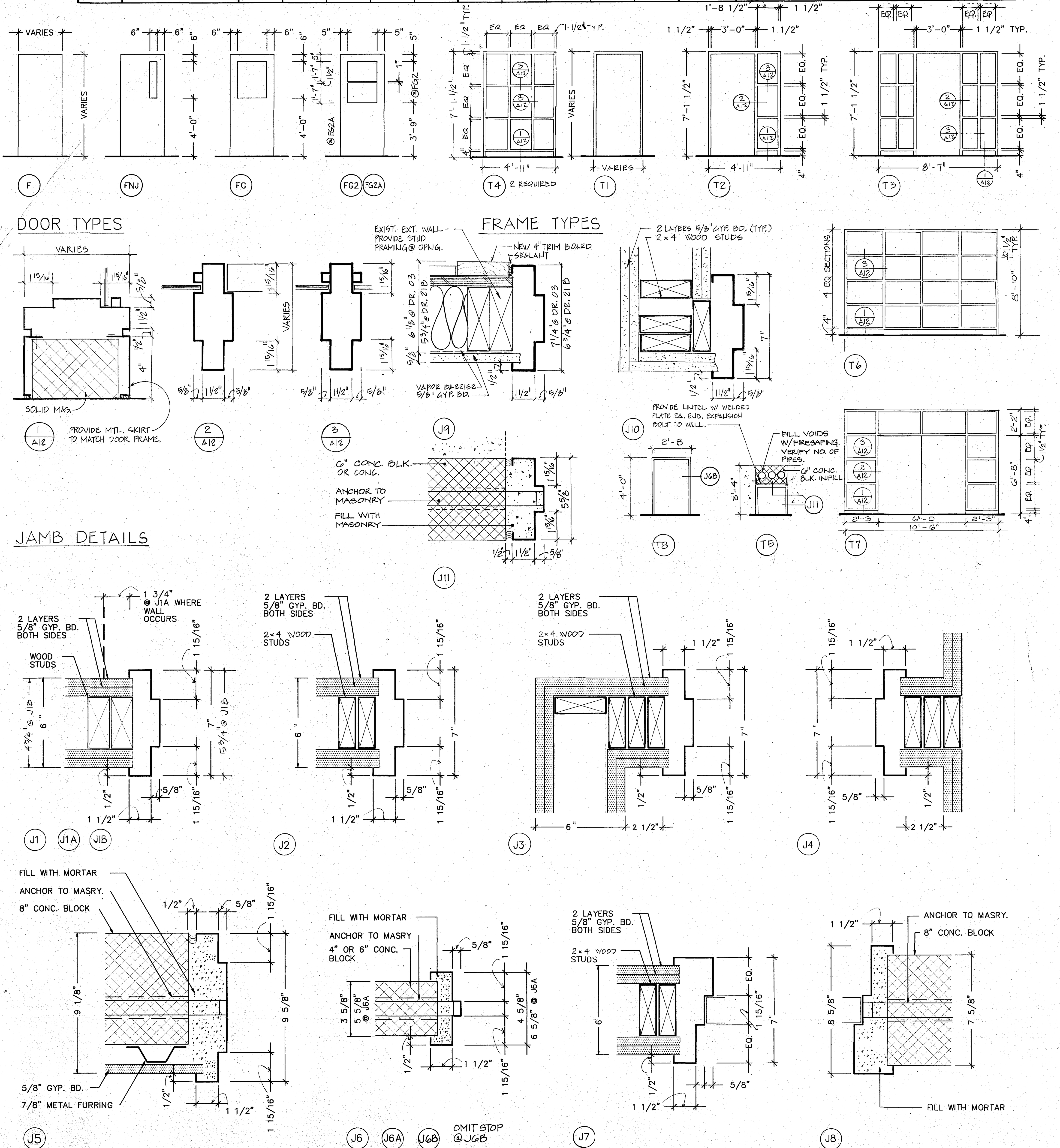
FINISH SCHEDULE & DETAILS

SCALE: AS NOTED
DRAWN BY: B.H., M.G.
DATE: 01 SEPT. '88
REVISED:

A11

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	HDWR. #	REMARKS
48A	CLASSROOM	EXIST.	—	—	—	—	EXIST.	—	—	—	—	—	—	PAINT EXIST. FRAME.
48B	CLASSROOM	EXIST.	—	—	—	—	EXIST.	—	—	—	—	—	—	PAINT EXIST. DOOR AND FRAME.
49A	CLASSROOM	EXIST.	—	—	—	—	EXIST.	—	—	—	—	—	—	PAINT EXIST. FRAME.
49B	CLASSROOM	EXIST.	—	—	—	—	EXIST.	—	—	—	—	—	—	PAINT EXIST. DOOR AND FRAME.
50A	CLASSROOM	EXIST.	—	—	—	—	EXIST.	—	—	—	—	—	—	PAINT EXIST. FRAME.
50B	CLASSROOM	EXIST.	—	—	—	—	EXIST.	—	—	—	—	—	—	PAINT EXIST. DOOR AND FRAME.
51-PAIR	VESTIBULE	EXIST.	—	—	—	—	EXIST.	—	—	—	—	—	11	PAINT EXISTING DOORS AND FRAME. PROVIDE NEW REMOVABLE MULLION.
52A	CLASSROOM	EXIST.	—	—	—	—	EXIST.	—	—	—	—	—	—	PAINT EXIST. FRAME.
52B	CLASSROOM	EXIST.	—	—	—	—	EXIST.	—	—	—	—	—	—	PAINT EXIST. DOOR AND FRAME.
53A	CLASSROOM	EXIST.	—	—	—	—	EXIST.	—	—	—	—	—	—	PAINT EXIST. FRAME.
53B	CLASSROOM	EXIST.	—	—	—	—	EXIST.	—	—	—	—	—	—	PAINT EXIST. DOOR AND FRAME.
54	TEACHER'S RM.	EXIST.	—	—	—	—	EXIST.	—	—	—	—	—	—	PAINT EXIST. FRAME.
55A	BOILER ROOM	3'–0"	6'–8"	WD	1 3/4"	F	EXIST.	—	—	—	—	B	1	PAINT EXIST. FRAME.
55B	BOILER ROOM	3'-0"	7'-0"	H.M.	1 3/4"	FG2	EXIST	—	—	—	BRONZE-SEE SPEC	—	—	PAINT EXIST. FRAME.
56	STORAGE	3'–0"	6'–8"	WD	1 3/4"	F	EXIST.	—	—	—	—	B	1	PAINT EXIST. FRAME.
VP1,VP2	SEC. OFF., LIBRARY	—	—	—	—	—	H.M.	T4	J2SIM	J2SIM	—	C	—	
VP3	STAIR NO. 7, CORR.	—	—	—	—	—	H.M.	T6	14/A8	14/A8	—	—	—	
VP4	DISHWASH	—	—	—	—	—	H.M.	T8	J6B	J6B	—	—	—	NO GLASS.



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	HDWR. #	REMARKS
B1	BASEMENT	3'–0"	7'–0"	WD	1 3/4"	F	H. M.	T1	J1	J1	—	B	1	
B2	BASEMENT	2'-10"	6'-8"	WD	1 3/4"	F	H.M.	T1	J11SIM	J11SIM	—	B	1	VERIFY EXIST. CONDITIONS.
B3	BASEMENT	EXIST.	—	—	—	—	—	—	—	—	—	—	—	PAINT EXIST. DOOR AND FRAME.
B4	ACCESS TUNNEL	1'10"	1'-10"	H.M.	1 3/4"	F	H.M.	T5	J11	J11	—	B	2	VERIFY EXIST. OPENING
A1, A2	ATTIC	3'-0"	6'-8"	WD.	1 3/4"	F	H.M.	T1	J1B	J1B		C	12	VERIFY EXIST. CONDITIONS.
01 PAIR	VESTIBULE	EXIST.	—	—	—	—	EXIST.	—	—	—	—	—	—	REUSE EXIST. DOOR TRIM. PAINT EXIST. DOORS AND FRAME.
02 PAIR	CORRIDOR	EXIST.	—	—	—	—	MODIFY EXIST.	—	8/A11	8/A11	—	—	—	RELOCATE EXTG. DOORS AND FRAME COMPLETE WITH TRANSOM, HARDWARE, AND TRIM. PAINT DOOR & FRAME.
03	CORRIDOR	3'–0"	7'–0"	H.M.	1 3/4"	F	H.M.	T2	J9	J9	C	—	3	PROVIDE NEW FRAMED OPNG. IN EXIST. WALL - VERIFY EXTERIOR WALL CONSTRUCTION.
4A	LIBRARY	3'–0"	7'–0"	WD	1 3/4"	F	H. M.	T3	J2	J3	A	C	—	
4B	LIBRARY	EXIST.	—	—	—	—	EXIST.	—	—	—	—	—	—	PROVIDE NEW 1/2" x 2 1/2" WOOD STOP, HEAD & JAMBS. PAINT EXIST. DOOR & FRAME.
05	SMALL GROUP INST.	3'–0"	7'–0"	WD	1 3/4"	F	H. M.	T2	J2	J3, J4	A	C	4	
06	SMALL GROUP INST.	3'–0"	7'–0"	WD	1 3/4"	F	H. M.	T2	J2	J3, J4	A	C	4	
07	SMALL GROUP INST.	3'–0"	7'–0"	WD	1 3/4"	F	H. M.	T2	J2	J3, J4	A	C	4	
08	SMALL GROUP INST.	3'–0"	7'–0"	WD	1 3/4"	F	H. M.	T2	J2	J3, J4	A	C	4	
09	CLASSROOM	3'–0"	7'–0"	WD	1 3/4"	F	H. M.	T2	J2	J3, J4	A	C	4	
10A PAIR	CLOSET	EXIST.	—	—	—	—	—	—	—	9/A11	9/A11	—	—	PROVIDE NEW WOOD TRIM. PAINT EXIST. DOORS AND FRAME.
10B PAIR	CLOSET	EXIST.	—	—	—	—	—	—	—	9/A11	9/A11	—	—	PROVIDE NEW WOOD TRIM. PAINT EXIST. DOORS AND FRAME.
10C PAIR	CLOSET	EXIST.	—	—	—	—	—	—	—	9/A11	9/A11	—	—	PROVIDE NEW WOOD TRIM. PAINT EXIST. DOORS AND FRAME.
11	CLOSET	EXIST.	—	—	—	—	—	—	—	9/A11	9/A11	—	—	PROVIDE NEW WOOD TRIM. PAINT EXIST. DOOR AND FRAME.
12	BOY'S ROOM	3'–0"	7'–0"	WD	1 3/4"	F	H. M.	T1	J1	J1	B	C	5	MODIFY EXIST. FRAMED OPENING.
13	JANITOR'S CLOSET	2'–10"	7'–0"	WD	1 3/4"	F	H. M.	T1	J2	J2	B	B	1	
14	H.C TOILET RM.	3'–0"	7'–0"	WD	1 3/4"	F	H. M.	T1	J1	J1A,J1	B	C	5	MODIFY EXIST. FRAMED OPNG.
15	GIRL'S ROOM	3'–0"	7'–0"	WD	1 3/4"	F	H. M.	T1	J1	J1	B	C	5	MODIFY EXIST. FRAMED OPNG.
16A	STORAGE	3'–0"	7'–0"	WD	1 3/4"	F	H. M.	T1	J1	J1	A	B	1	
16B	STORAGE	3'–0"	7'–0"	WD	1 3/4"	F	H. M.	T1	J1	J1	A	B	1	MODIFY EXIST. FRAMED OPNG.
16C	STORAGE	EXIST.	—	—	—	—	EXIST.	—	—	—	—	—	—	PROVIDE NEW 1/2" x 2 1/2" WOOD STOP, HEAD & JAMB (VERIFY EXIST. CONDITION) - PAINT EXIST. DOOR & FRAME
17	CLASSROOM	3'–0"	7'–0"	WD	1 3/4"	F	H. M.	T2	J2	J2, J4	A	C	4	MODIFY EXIST. FRAMED OPNG.
18A PAIR	CLOSET	EXIST.	—	—	—	—	—	—	9/A11	9/A11	—	—	—	PAINT EXIST. DOORS AND FRAME.
18B PAIR	CLOSET	EXIST.	—	—	—	—	—	—	9/A11	9/A11	—	—	—	PAINT EXIST. DOORS AND FRAME.
18C PAIR	CLOSET	EXIST.	—	—	—	—	—	—	9/A11	9/A11	—	—	—	REPAIR HARDWARE PAINT EXIST. DOORS AND FRAME.
18D PAIR	CLOSET	EXIST.	—	—	—	—	—	—	9/A11	9/A11	—	—	—	PAINT EXIST. DOORS AND FRAME.
19	TOILET ROOM	EXIST.	—	—	—	—	—	—	9/A11	9/A11	—	—	—	PAINT EXIST. DOOR AND FRAME.
20	CLOSET	3'–0"	6'–4"	WD	1 3/8"	F	EXIST.	—	9/A11	9/A11	—	—	4	PAINT EXIST. FRAME.
21A PAIR	CORRIDOR	EXIST.	—	—	—	—	MODIFY EXIST.	—	7/A11	7/A11	—	—	—	RELOCATE EXIST. DOORS & FRAMES, COMPLETE W/ TRANSOM, HARDWARE AND TRIM. PAINT DOOR & FRAME.
21B	CORRIDOR	3'–0"	7'–0"	H.M.	1 3/4"	F	H. M.	T2	J9	J9	C	—	3	MODIFY EXIST. FRAMED OPNG. - VERIFY EXTERIOR WALL CONSTRUCTION.
22 PAIR	VESTIBULE	EXIST.	—	—	—	—	EXIST.	—	—	—	—	—	—	PAINT EXIST. DOORS AND FRAME.
23	CORRIDOR	3'–0"	7'–0"	WD	1 3/4"	F	H. M.	T2	J2	J4	A	C	4	
24	WORK ROOM	3'–0"	7'–0"	WD	1 3/4"	F	H. M.	T1	J2	J2, J4	D	B	6	UNDERCUT DOOR 3/4".
25	NURSE'S ROOM	3'–0"	7'–0"	WD	1 3/4"	F	H. M.	T2	J2	J3, J4	—	—	7	UNDERCUT DOOR 1".
26	CONFERENCE ROOM	3'–0"	7'–0"	WD	1 3/4"	F	H. M.	T2	J2	J2, J3	—	—	7	
27	PRINCIPAL'S OFFICE	3'–0"	7'–0"	WD	1 3/4"	F	H. M.	T2	J2	J2, J3	—	—	7	UNDERCUT DOOR 1".
28	SECRETARY'S OFFICE	3'–0"	7'–0"	WD	1 3/4"	F	H.M.	T2	J2	J2, J3	A	C	4	
29	STORAGE	3'–0"	7'–0"	WD	1 3/4"	F	H. M.	T1	J2	J2	A	B	1	
30	TOILET ROOM	3'–0"	7'–0"	WD	1 3/4"	F	H. M.	T1	J2	J2, J4	B	—	5	
31A PAIR	STAIR/CORRIDOR	3'–0"	7'–0"	WD	1 3/4"	FNJ	H. M.	T1	J8 SIM J7	J8 SIM J7	—	B	8	PROVIDE MAGNETIC HOLDOPENS
31B PAIR	STAIR/CORRIDOR	3'–0"	7'–0"	H. M.	1 3/4"	FG2A	H.M.	T7	14/A8	14/A8	C	—	13	
32	ELEVATOR MACH. RM.	3'–0"	6'–8"	WD	1 3/4"	F	H. M.	T1	J5	J5	—	B	1	
33 PAIR	CORRIDOR	3'–0"	6'–8"	WD	1 3/4"	FNJ	H. M.	T1	J7 SIM, J8	J7 SIM J8	—	B	8	PROVIDE MAGNETIC HOLDOPENS
34	STORAGE	2'–8"	6'–8"	WD	1 3/4"	F	EXIST.	—	—	—	—	B	1	PAINT EXIST. FRAME
35	STORAGE	2'–8"	6'–8"	WD	1 3/4"	F	EXIST.	—	—	—	—	B	1	PAINT EXIST. FRAME
36A PAIR	CORRIDOR	EXIST.	—	—	—	—	EXIST.	—	—	—	—	—	—	PAINT EXIST. DOORS AND FRAME.
36B PAIR	CORRIDOR	EXIST.	—	—	—	—	EXIST.	—	—	—	—	—	—	PAINT EXIST. DOORS AND FRAME.
37	GIRL'S ROOM	3'–0"	6'–8"	WD	1 3/4"	F	H. M.	T1	J6	J6	B	C	5	PROVIDE NEW LINTEL MODIFY EXIST. M.O.
38	H.C. TOILET RM.	3'–0"	6'–8"	WD	1 3/4"	F	H. M.	T1	J6	J6	B	C	5	PROVIDE NEW LINTEL NEW MASONRY OPNG.
39	JANITOR'S CLOSET	3'–0"	6'–8"	WD	1 3/4"	F	H. M.	T1	J6	J6	B	C	1	PROVIDE NEW LINTEL NEW MASONRY OPNG.
40	BOY'S ROOM	3'–0"	6'–8"	WD	1 3/4"	F	H. M.	T1	J6	J6	B	C	5	PROVIDE NEW LINTEL MODIFY EXIST. M.O.
41A	KITCHEN	3'–0"	6'–8"	H. M.	1 3/4"	F	H. M.	T1	J6	J6	—	B	1	VERIFY EXISTING MASONRY OPENING./ PROVIDE MAGNETIC HOLDOPENS
41B	KITCHEN	3'–0"	6'–8"	H. M.	1 3/4"	F	H. M.	T1	J6	J6	—	B	1	NEW MASONRY OPENING./ PROVIDE LINTEL & MAGNETIC HOLDOPENS
43	TOILET ROOM	EXIST.	—	—	—	—	EXIST.	—	—	—	—	—	—	PAINT EXIST. DOOR & FRAME
44	STORAGE	3'–0"	6'–8"	WD	1 3/4"	F	H. M.	T1	J6	J6A	—	B	1	
45 PAIR	VESTIBULE	3'–0"	6'–11"	H. M.	1 3/4"	FG2	EXIST.	—	—	—	—	—	9	PAINT EXISTING FRAME. VERIFY EXIST. CONDITION
46A PAIR	MULTIPURPOSE RM.	3'–0"	6'–8"	WD	1 3/4"	FNJ	EXIST.	—	—	—	—	B	10	PAINT EXISTING FRAME./ VERIFY EXIST. CONDITION
46B PAIR	MULTIPURPOSE RM.	3'–0"	6'–8"	WD	1 3/4"	FNJ	EXIST.	—	—	—	—	B	10	PAINT EXISTING FRAME./ VERIFY EXIST. CONDITION
46C PAIR	MULTIPURPOSE RM.	EXIST.	—	—	—	—	—	—	—	—	—	—	9	PAINT EXISTING DOORS AND FRAME. PROVIDE NEW THRESHOLD.
47A	STAGE	3'–0"	6'–8"	WD	1 3/4"	F	EXIST.	—	—	—	—	B	1	PAINT EXISTING FRAME.
47B	STAGE	3'–0"	6'–8"	WD	1 3/4"	F	EXIST.	—	—	—	—	C	4	PAINT EXISTING FRAME.
47C	STAGE	3'–0"	6'–8"	WD	1 3/4"	F	EXIST.	—	—	—	—	C	4	PAINT EXISTING FRAME.
47D	STAGE	EXIST.	—	—	—	—	EXIST.	—	—	—	—	—	1	PAINT EXIST. DOOR AND FRAME.

C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
7 SOUTH MAIN STREET, WEST HARTFORD, CT 06710 (203) 233-8526

CONSULTANTS
MECHANICAL & ELECTRICAL : BURTON & VAN HOUTEN ENGINEERS, INC. 10 NORTH MAIN STREET, WEST HARTFORD, CT 06107 (203) 236-2365
STRUCTURAL : GIRARD & COMPANY ENGINEERS 40 WETHERSFIELD AVE., HARTFORD, CT 06114 (203) 524-5196

DOOR SCHEDULE AND DETAILS

SCALE : AS NOTED.
DRAWN BY : B.H., M.G.
DATE : 01 SEPT. '89
REVISED :

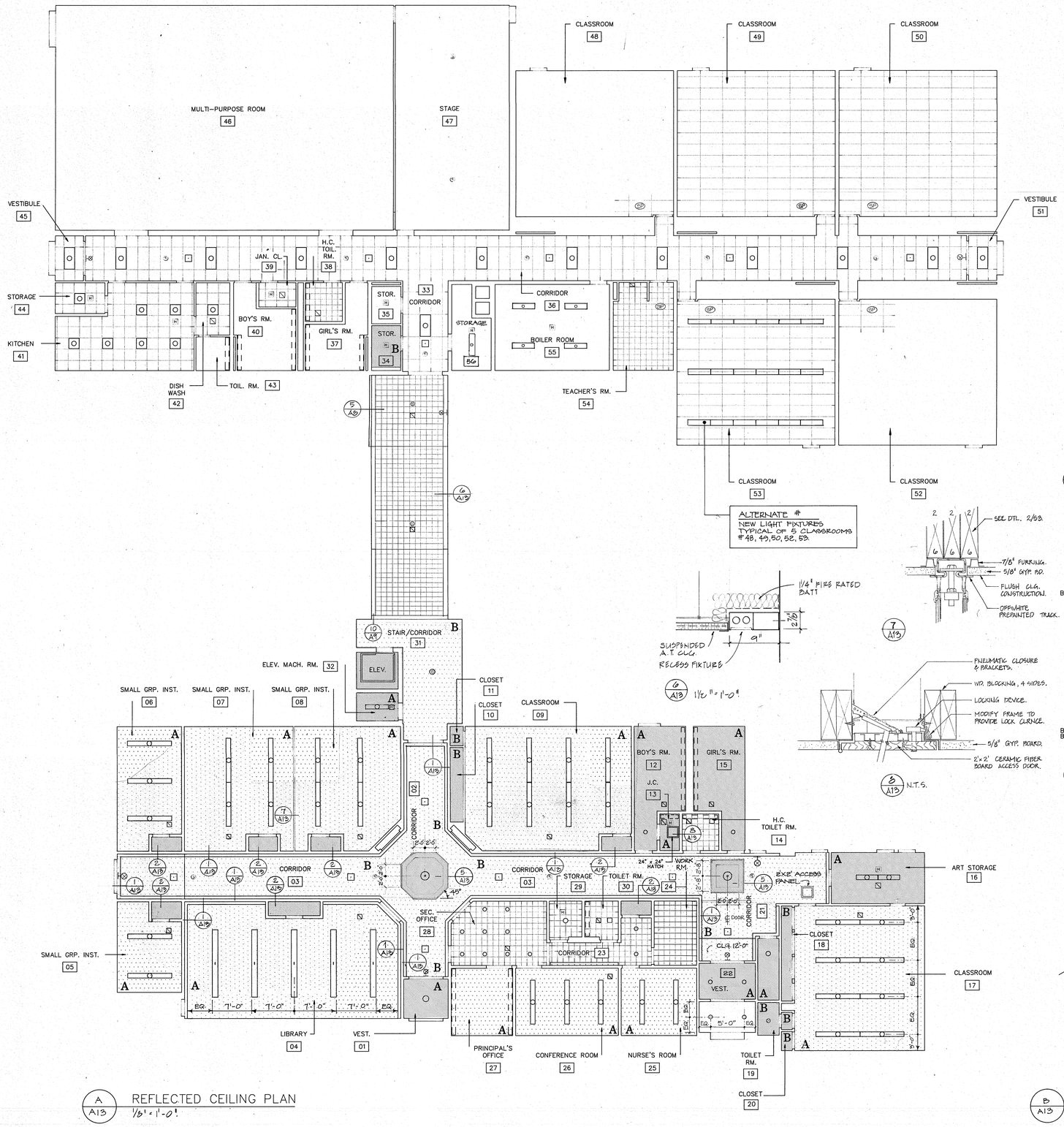
A12

BOOTH FREE SCHOOL · ROXBURY

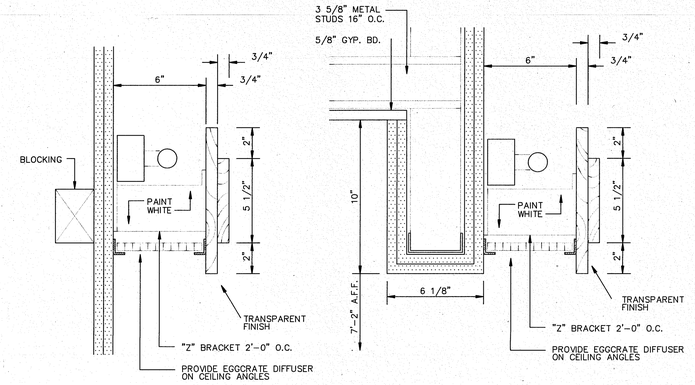
BOOTH FREE SCHOOL · ROXBURY

KEY

- PLASTER BASE GYPSUM BOARD WITH SPRAYED ACOUSTICAL FINISH.
- CONCEALED GRID, 12"x 12"
- SCRUBBABLE 2'x 2' CEILING TILE
- 2'X 4' ACOUSTICAL TILE
- EXISTING
- PAINTED GYPSUM BOARD.
- LIGHT FIXTURES
- (S) SMOKE DETECTOR
- (H) HEAT DETECTOR
- A - METAL FURRING ON EXTG. OR NEW WOOD TRUSSES - SEE DTL. 9-A13.
- B - METAL FURRING ON SUSPENDED CARRY CHANNELS - SEE DTL. 10-A13.



A/A13 REFLECTED CEILING PLAN
1/8" = 1'-0"



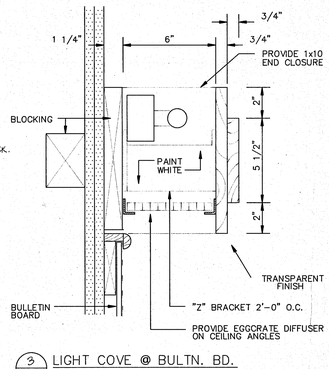
1/A13 LIGHT COVE DTL.
3" = 1'-0"

2/A13 LIGHT COVE @ DOOR
3" = 1'-0"

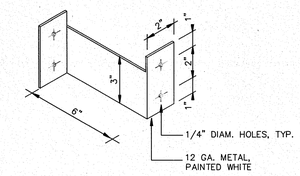
6/A13 1½" = 1'-0"

7/A13

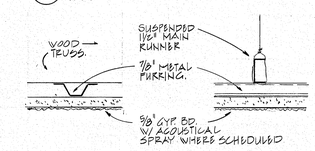
8/A13 N.T.S.



3/A13 LIGHT COVE @ BULTN. BD.
3" = 1'-0"

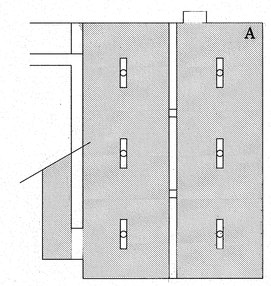


4/A13 "Z" BRACKET
N.T.S.

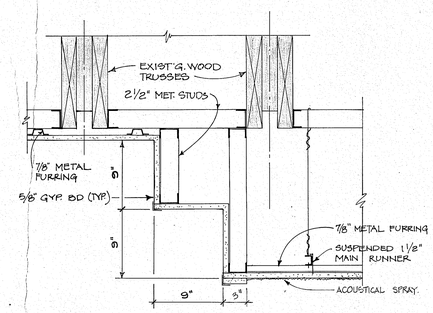


9/A13 FURRED CLG - A
3" = 1'-0"

10/A13 SUSPENDED CLG - B
3" = 1'-0"



B/A13 BASEMENT REFLECTED CEILING PLAN
1/8" = 1'-0"



5/A13 SOFFIT DETAIL
SCALE: 1½" = 1'-0"

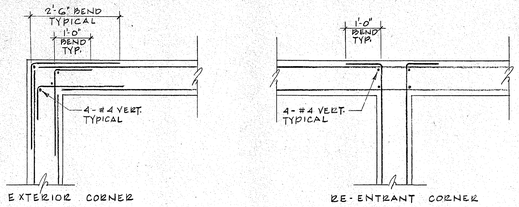
C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
7 SOUTH MAIN STREET, WEST HARTFORD, CT 06107 (203) 233-8526

CONSULTANTS
MECHANICAL & ELECTRICAL: BURTON & VAN HOUTEN ENGINEERS, INC.
10 NORTH MAIN STREET, WEST HARTFORD, CT 06107 (203) 236-2365
STRUCTURAL: GIRARD & CO. ENGINEERS
40 WETHERSFIELD AVENUE, HARTFORD, CT 06114 (203) 524-1594

REFLECTED CEILING — PLAN & DETAILS

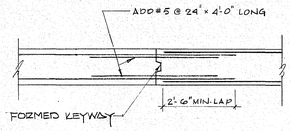
SCALE: AS NOTED
DRAWN BY: B.H., M.G.
DATE: 21 SEPT. '88
REVISED:

A13



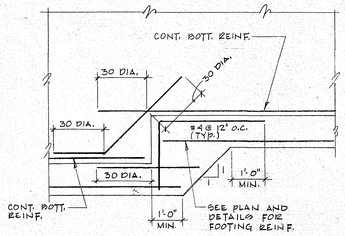
TYP. WALL CORNER REINFORCING

NOT TO SCALE



TYP. CONSTR. JOINT DETAIL

NOT TO SCALE



TYPICAL STEPPED FOOTING

NOT TO SCALE

LINTEL SCHEDULE

SPAN	SIZE
UP TO 3'-4"	ONE ANGLE - 4" VERT. x 3½" HORIZ. x ¼" TH. FOR EACH 4" OF MASONRY THICKNESS.
3'-4" TO 6'-0"	ONE ANGLE - 5" VERT. x 3½" HORIZ. x ¼" TH. FOR EACH 4" OF MASONRY THICKNESS.
6'-0" TO 8'-0"	ONE ANGLE - 6" VERT. x 3½" HORIZ. x ¼" TH. FOR EACH 4" OF MASONRY THICKNESS.
ALL OTHER LINTELS	SEE STRUCTURAL DRAWINGS.
ALL LINTELS TO BEAR 8" EACH END UNLESS OTHERWISE NOTE ON THE DRAWINGS.	

DESIGN DATA

CODES USED:

STATE OF CONNECTICUT BASIC BUILDING CODE - B.O.C.A. 1984

A.I.S.C. 8TH EDITION

A.C.I. 318-83

STRESSES USED:

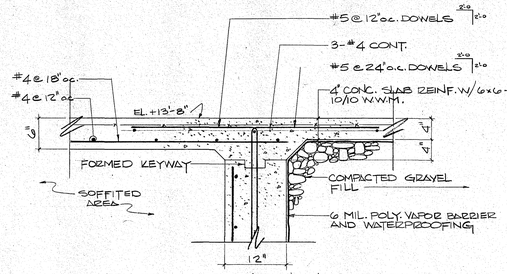
SOIL BEARING PRESSURE - 4000 PSF

CONCRETE STRENGTH f'_c - 3000 PSI

STRUCTURAL STEEL f_y - 36,000 PSI

REINFORCING STEEL - A.S.T.M. Gr. 60

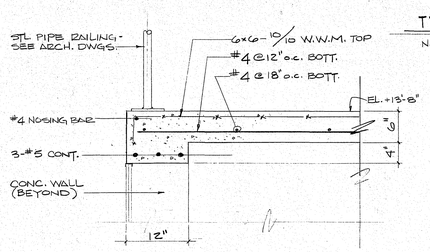
LOCATION \ LOADING	LIVE LOAD	SLAB OR DECK	DFG & INSUL	CEILING	FRAMING	MISC.	TOTAL
ROOF	32	2	12	2	4	3	55
FLOOR (TYPICAL)	80		—	—			



NOTE: FDN. WALL REINF. NOT SHOWN FOR CLARITY.

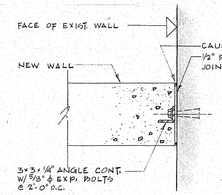
SECTION 1 / S-1

SCALE: 1" = 1'-0"



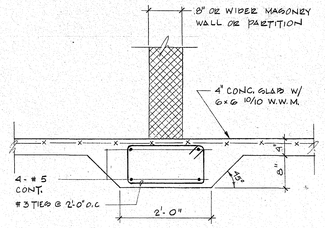
SECTION 2 / S-1

SCALE: 1" = 1'-0"



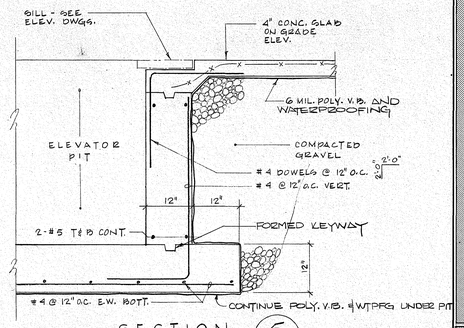
DETAIL A / S-1

SCALE: 1" = 1'-0"



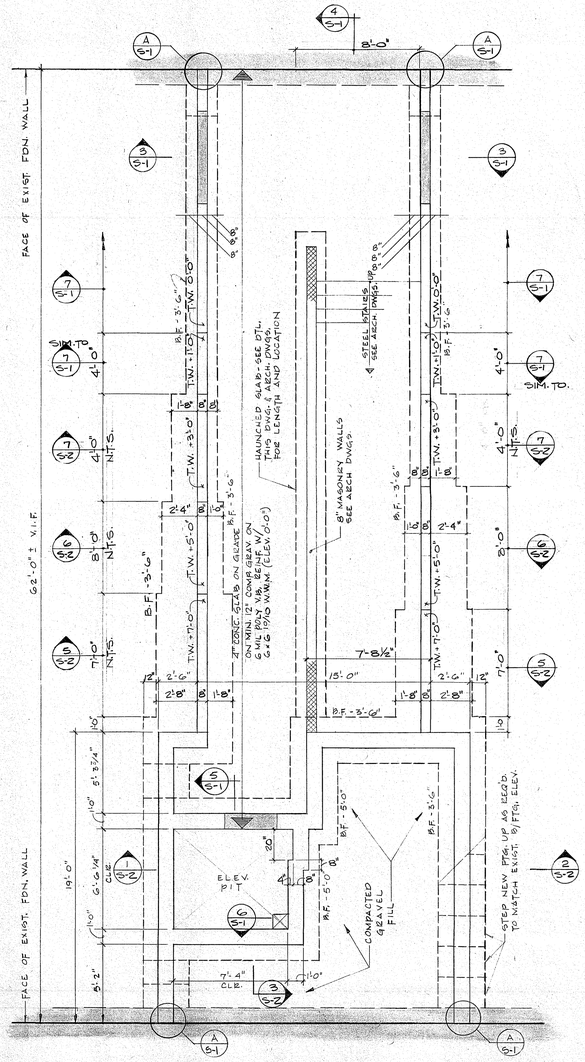
HAUNCHED SLAB DETAIL

NOT TO SCALE



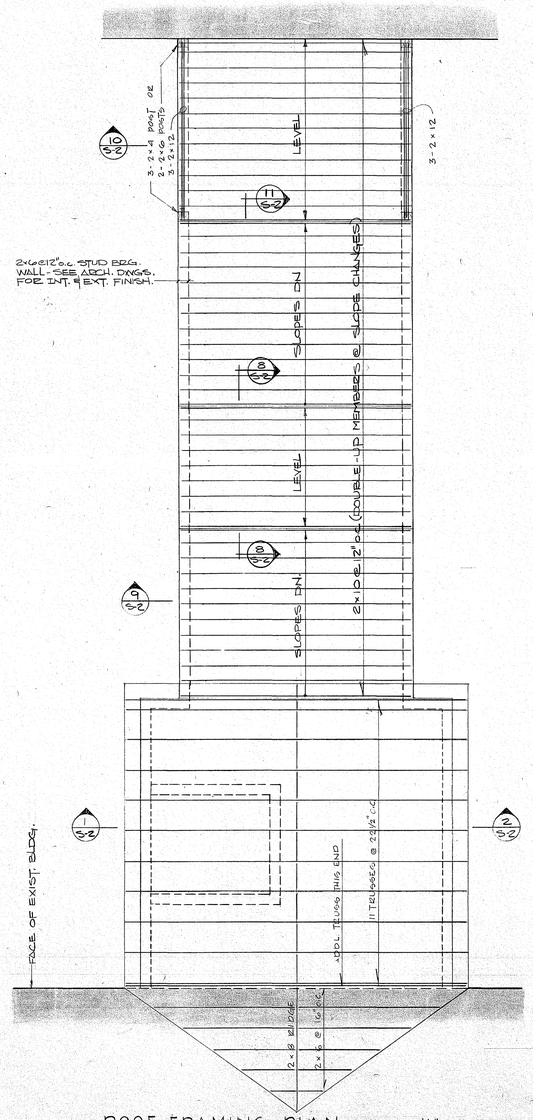
SECTION 5 / S-1

SCALE: 3/4" = 1'-0"



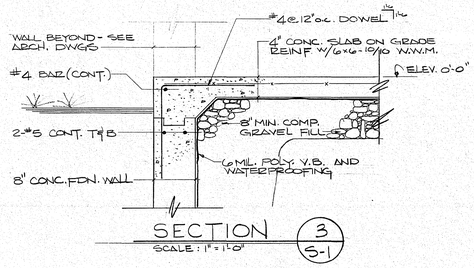
FOUNDATION & LOWER LEVEL PLAN

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



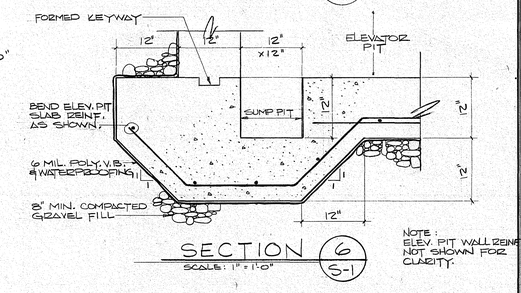
ROOF FRAMING PLAN

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



SECTION 3 / S-1

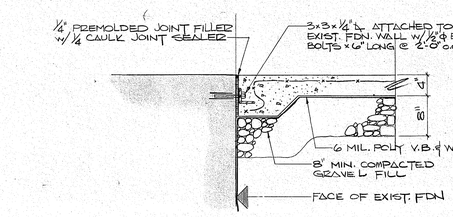
SCALE: 1" = 1'-0"



NOTE: ELEV. PIT WALL REINF. NOT SHOWN FOR CLARITY.

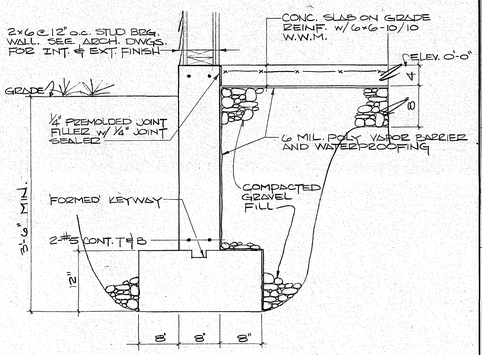
SECTION 6 / S-1

SCALE: 1" = 1'-0"



SECTION 4 / S-1

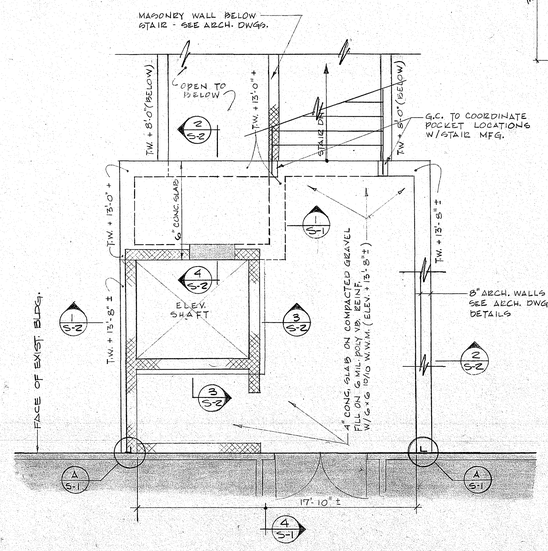
SCALE: 1" = 1'-0"



TYPICAL FOOTING SECTION

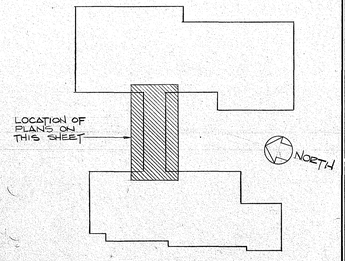
SECTION 7 / S-1

SCALE: 1" = 1'-0"



UPPER LEVEL PLAN

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



KEY PLAN

BOOTH FREE SCHOOL ROXBURY

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

BURTON & VANHOUTEN ENGINEERS INC.
10 NORTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 236-2865

GIRARD & CO. ENGINEERS
40 WATERSFIELD AVENUE HARTFORD, CT. 06114 (203) 526-1594

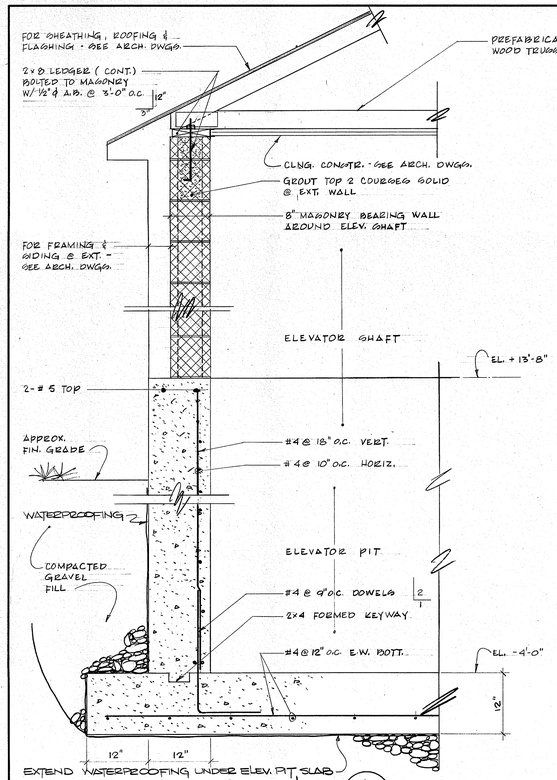
CONSULTANTS:
MECHANICAL & ELECTRICAL:
STRUCTURAL:

CONNECTOR PLANS, SCHEDULES, AND FOUNDATION SECTIONS.

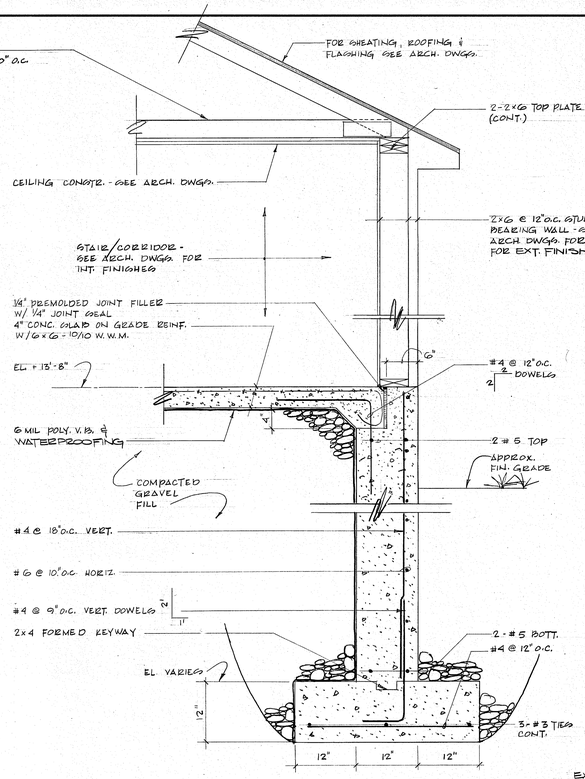
SCALE AS NOTED DRAWN BY DSG/BS

DATE 9-21-88 REVISED

S-1



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



SECTION 2 / S-2
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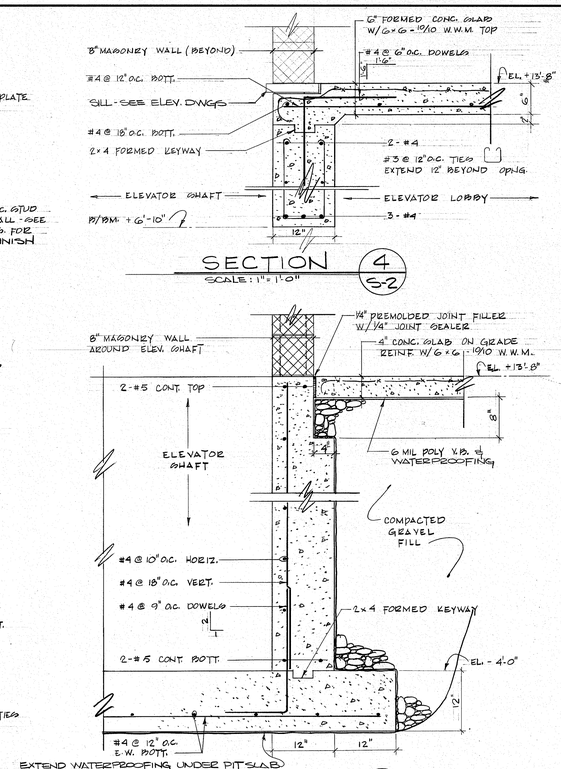


SECTION 3 / S-2
SCALE: 1" = 1'-0"

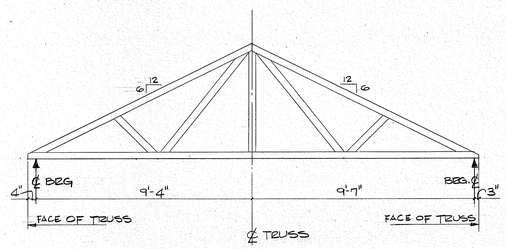
SECTION 4 / S-2
SCALE: 1" = 1'-0"

ROOF TRUSS NOTES

PREFABRICATED ROOF TRUSSES

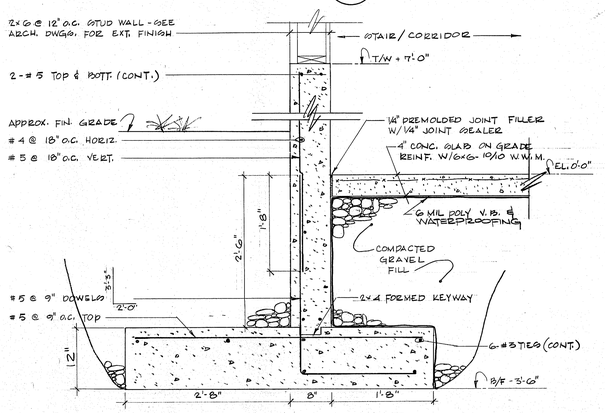
1. ROOF TRUSSES SHALL BE FABRICATED FROM No. 2 K.D. OR BETTER MATERIALS.
2. TRUSS DETAIL AND TRUSS MANUFACTURE SHALL BE IN ACCORDANCE WITH THE LATEST T.P.I. (TRUSS PLATE INSTITUTE) PUBLICATIONS AND GUIDELINES.
3. TRUSS MANUFACTURER SHALL HAVE A MINIMUM OF 5 YEARS OF CONTINUOUS TRUSS FABRICATION EXPERIENCE.
4. PROVIDE TEMPORARY AND PERMANENT TRUSS BRACING PER T.P.I. RECOMMENDATIONS.
5. PROVIDE DOUBLE TRUSSES AT LOCATIONS AS SHOWN ON THE DRAWINGS.
6. ATTACH EACH TRUSS TO THE BEARING WALL PLATES WITH NAILED 16ga BENT STEEL CONNECTORS.
7. TRUSS LOADING TO BE AS FOLLOWS:
   a. TOP CHORD - 84 p.l.f.
   b. BOTTOM CHORD - 36 p.l.f.

   TRUSS SPACING TO BE 24" o.c. MAXIMUM.
8. PRIOR TO TRUSS FABRICATION, PREPARE AND SUBMIT SHOP DRAWINGS OF THE TRUSSES SHOWING LUMBER SIZES, LUMBER & SPECIES & GRADES, STRESSES, LOADING, TYPE OF CONNECTOR, AND DETAILS OF FABRICATION. SHOP DRAWINGS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CONNECTICUT.

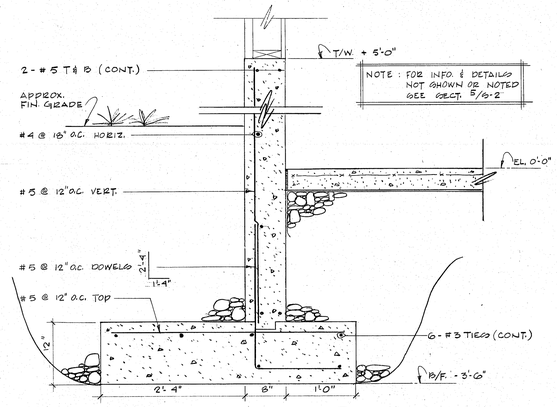


ROOF TRUSS ELEVATION
N.T.S.

NOTE: TRUSS MEMBER CONFIGUATION NOT NECESSARILY AS SHOW.



SECTION 5 / S-2
SCALE: 1" = 1'-0"



SECTION 6 / S-2
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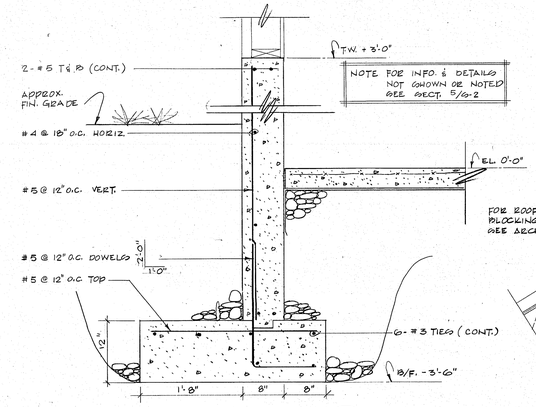
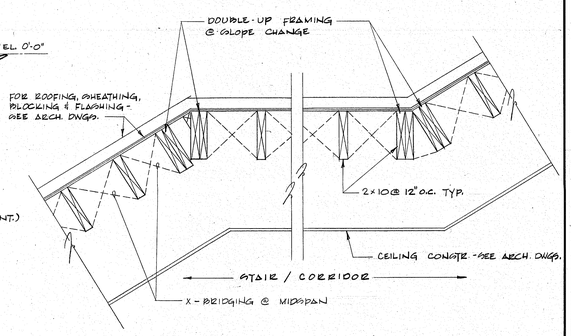
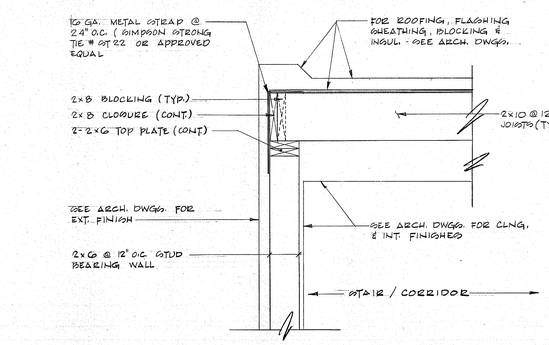


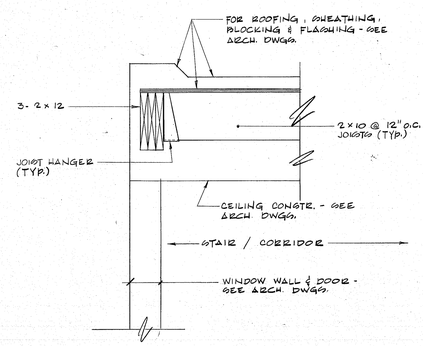
SECTION 7 / S-2
SCALE: 1" = 1'-0"



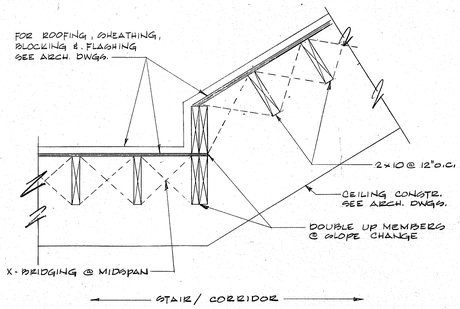
SECTION 8 / S-2
SCALE: 1" = 1'-0"



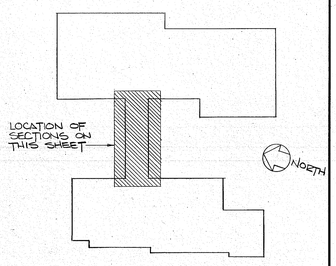
SECTION 9 / S-2
SCALE: 1" = 1'-0"



SECTION 10 / S-2
SCALE: 1" = 1'-0"



SECTION 11 / S-2
SCALE: 1" = 1'-0"



KEY PLAN

STATE OF CONNECTICUT · STEPHEN J. GERARD · No. 8868 · LICENSED PROFESSIONAL ENGINEER

C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
7 SOUTH MAIN STREET, WEST HARTFORD, CT 06710 (203) 233-8526

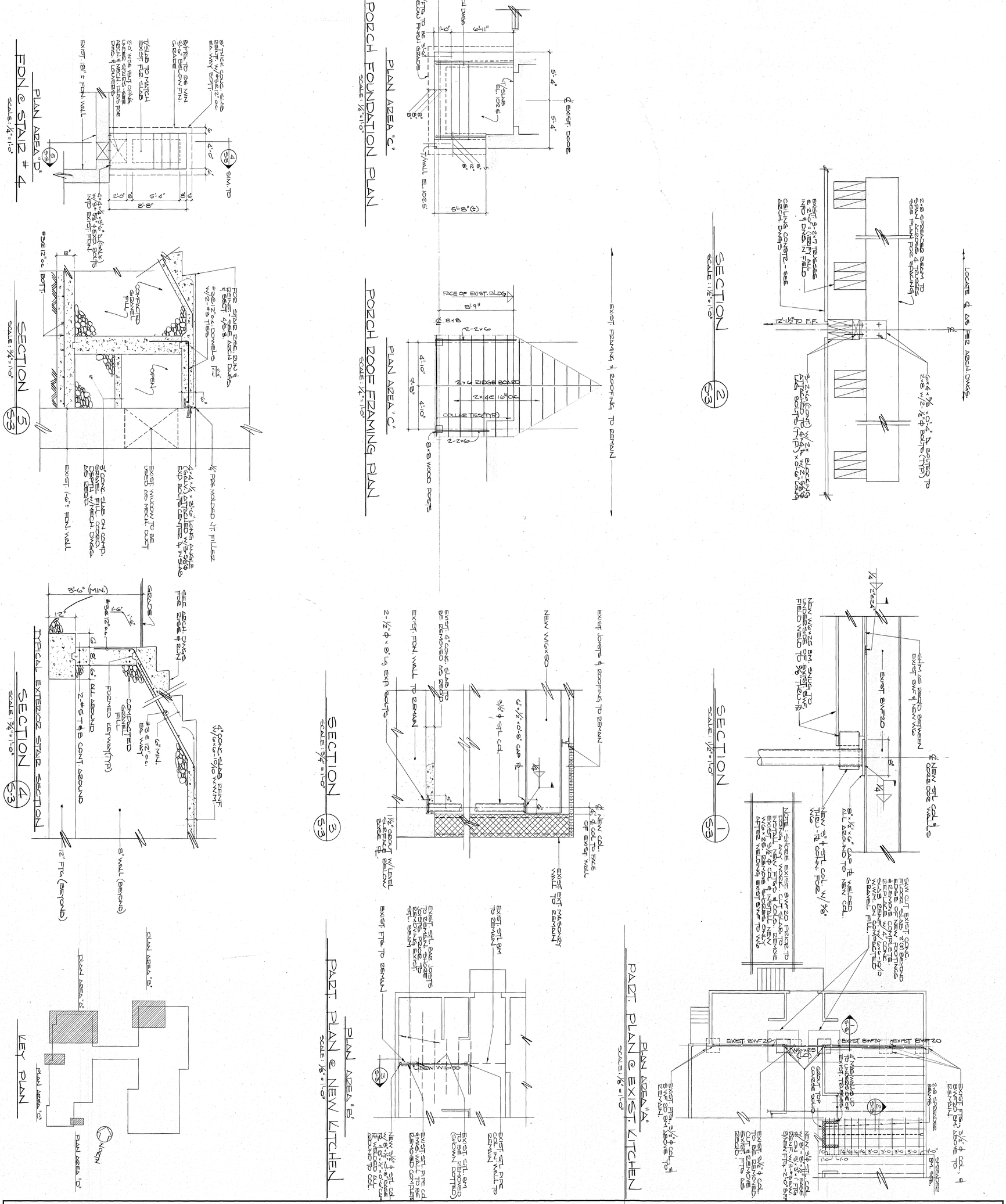
CONSULTANTS
MECHANICAL & ELECTRICAL: BURTON & VAN HOUTEN ENGINEERS, INC.
10 NORTH MAIN STREET, WEST HARTFORD, CT 06107 (203) 236-2355
STRUCTURAL: GIRARD & COMPANY ENGINEERS
40 WETHERSFIELD AVE., HARTFORD, CT 06114 (203) 524-5196

FOUNDATION & ROOF SECTIONS, ROOF TRUSS ELEVATION & NOTES

SCALE: AS NOTED
DRAWN BY: DSG & BS
DATE: 9-21-1988
REVISED:

S-2

BOOTH FREE SCHOOL ROXBURY



S-3

MISC. PLANS & SECTIONS

SCALE : AS NOTED

DRAWN BY : DSG

DATE : 9-01-88

REVISED :

CONSULTANTS

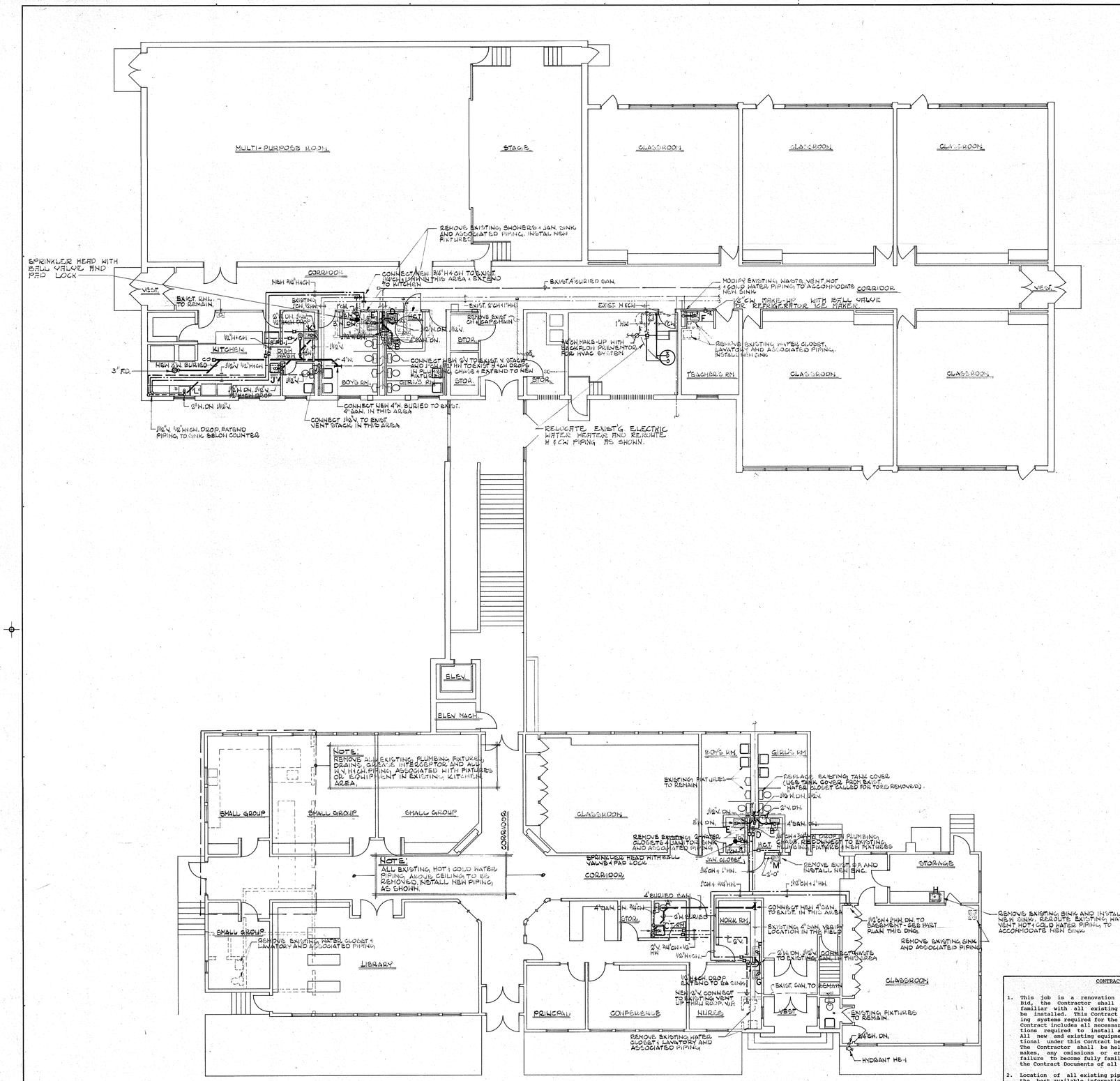
MECHANICAL & ELECTRICAL : BURTON & VAN HOUTEN ENGINEERS, INC.
10 NORTH MAIN STREET, WEST HARTFORD, CT 06107 (203) 236-2365

STRUCTURAL : GIRARD & COMPANY ENGINEERS
40 WETHERSFIELD AVE., HARTFORD, CT 06114 (203) 524-5196

C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
7 SOUTH MAIN STREET, WEST HARTFORD, CT 06710 (203) 233-8526

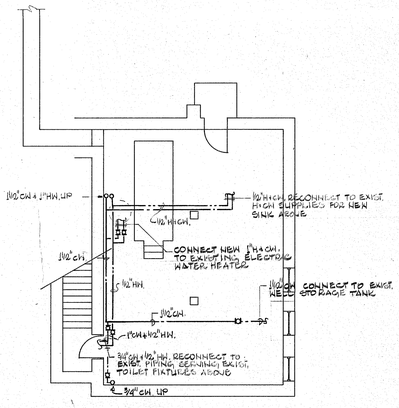
STATE OF CONNECTICUT · MICHAEL GIRARD · No. 5808 · LICENSED PROFESSIONAL ENGINEER

BOOTH FREE SCHOOL · ROXBURY



PLUMBING FLOOR PLAN

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



BASEMENT PLUMBING PLAN

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

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. Stainless steel sinks based on Elkay or equal by Just.

TYPE	FIXTURE	SOIL OR	VENT	HOT WATER	COLD WATER	MOUNT	DESCRIPTION
"A"	Water Closet	4"	2"	---	1/2"	Floor	Kohler "Wellworth" #K-3520-EBU vitreous china close-coupled siphon jet elongated toilet with tank liner. Olsonite #95 toilet seat. Provide supply with stop.
"B"	Water Closet Handi-capped	4"	2"	---	1/2"	Fldor	Same as Fixture "A" but with Olsonite #L210N-CC two (2") inch lift toilet seat.
"C"	Lavatory	1½"	1½"	½"	½"	Wall	Kohler "Greenwich" #2032, 20" x 18" vitreous china lavatory with 4" faucet centers. #K-6885 single lever faucet, #K-7715 drain with perforated grate tailpiece. #K-9000 cast brass P-trap. Provide J. R. Smith concealed arm support, supplies and stops.
"D"	Lavatory Handi-capped	1½"	1½"	½"	½"	Wall	Kohler "Morningside" #K-12636 vitreous china wheelchair lavatory with 4" centers. #K-6885 single lever faucet. #K-13895 offset drain with open strainer. #K-9000 cast brass P-trap. Provide supplies and stops and J. R. Smith concealed arm support. INSULAT SUPPLIES & P TRAP
"E"	Mop Sink	3"	1½"	½"	½"	Floor	Fiat "Molded Stone" MSB-2424, 24" x 24" mop service basin with stainless steel integral drain, #832-AA rubber hose, #889-CC mop hanger, #832-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.
"F"							
"G"							
"P"	Sink	1½"	1½"	½"	½"	Counter	Elkay "Lustertone" #LR-2219, single compartment, 18-gauge, Type 302 stainless steel sink with three (3) faucet holes #LK-2423 swing spout goose neck faucet. Provide strainers, tailpiece, stops, supplies and cast brass "P" trap.
"Q"	Sink	1½"	1½"	½"	½"	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 4" wrist blade handles. Provide strainer, tail-piece, cast brass "P" trap and stops on supplies.
"R"	Sink	1½"	1½"	½"	½"	Counter	Elkay "Lustertone" #LR-2522, single compartment, 18-gauge, type 302 stainless steel sink with three (3) faucet holes. #LK-2423 swing spout hi-arc faucet with aerator. Provide strainer, tailpiece, stops and supplies, AND Y-PE TRAP.
"J"	Kitchen Hand Sink	1½"	1½"	½"	½"	Wall	Elkay #CHS-1916, Type 304 stainless steel hand sink, 5" backsplash, wall hanger and stainless steel brackets. #LK-8 drain fitting, #LK-393 faucet with 4" wrist blade handles. Provide "P" trap and stops on supplies.
"K"	Kitchen Sink	1½"	1½"	1/2"	1/2"	Counter Type	Elkay "Lustertone" #DLR-3122-12 single-compartment, 18-gauge, Type 302 stainless steel sink with four (4) faucet holes. #LK-2443 swing spout gooseneck faucet with aerator, with handles and spray. Provide strainer, tailpiece, "P" Trap, stops and supplies.
"M"	Electric Water Cooler	1½"	1½"	--	1/2"	Wall	Elkay #EWS-8 electric water cooler, raised-rib basin, drain strainer, flexi-guard bubbler, non-pressurized cooling tank, and mounting hanger. Rated for 8 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.

FLOOR CLEANOUTS

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

WALL CLEANOUTS

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

FLOOR DRAIN F.D.-1:

J. R. Smith #2010-A, Duco cast iron body, flashing collar with nickel bronze 6" strainer head. See Plans for size.

"L"	Sink	1½"	1½"	1/2"	1/2"	Counter	Elkay "Luster Tone" #LR4322-L single compartment stainless steel sink with drain board, 18-gauge, 4 faucet holes, #LK-2443 swing spout gooseneck faucet with aerator, with handles and spray. Provide strainer, tailpiece, "P" Trap, stops and supplies.

HYDRANT HB WOODFORD #25 FREEZLES HYDRANT.

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.
3. Plumbing Contractor shall verify exact location and invert elevation of existing buried sanitary or waste piping prior to excavation for new piping connection and shall notify Engineer if any problem arises.

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

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) 236-2555
STRUCTURAL: GIRARD & CO. ENGINEERS 40 WATERSFIELD AVENUE HARTFORD, CT. 06114 (203) 524-1934

BOOTH FREE SCHOOL ROXBURY

PLUMBING FLOOR PLAN

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

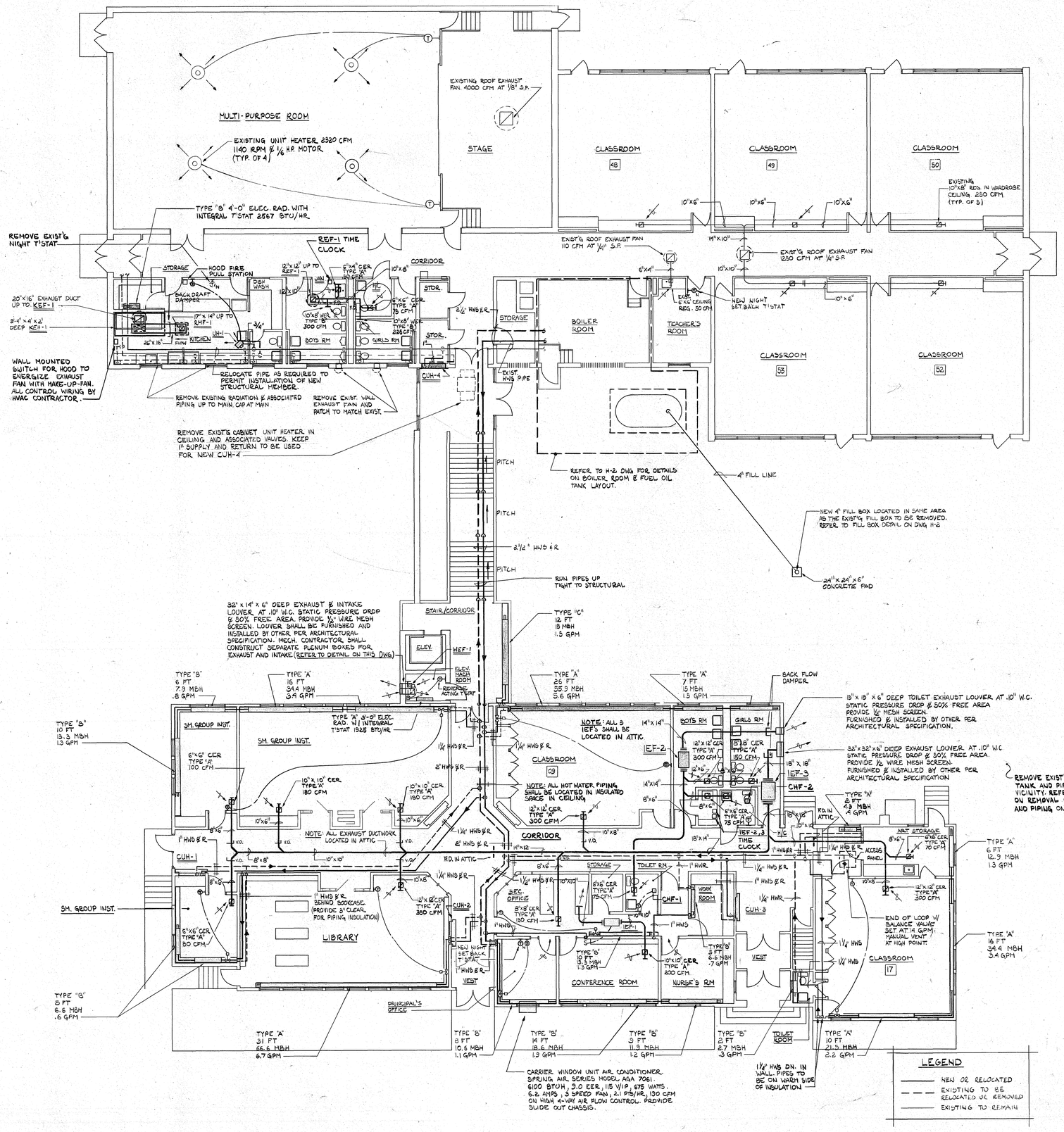
DRAWN BY: GSK

REVISED:

DATE: 3-1-88

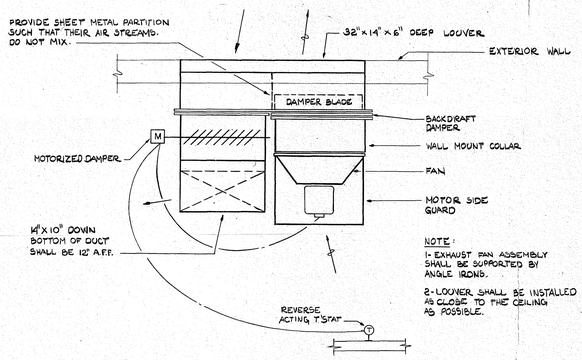
P - 1

#81279



HVAC FLOOR PLAN

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



MACHINE ROOM INTAKE AND EXHAUST DETAIL

N. T. S.

UPPER BUILDING DEMOLITION NOTES:

1) Remove all radiation, heating branch piping, valves and fittings. Existing piping in tunnel shall remain. Cap off as close to mains as possible.

2) Remove all duct risers up to main in attic, registers, and hangers.

3) Remove boiler, piping, heat exchanger, expansion tank, and all associated fittings, valves, etc.

4) Remove all thermostats, and other controls associated with equipment being removed.

LOWER BUILDING DEMOLITION NOTES:

1) Remove boiler, piping, expansion tank, and all associated fittings, valves, etc. Both existing pumps shall be removed. The existing gymnasium pump is to be retained for relocation. Refer to Temperature Control Specifications for multi-purpose zone control equipment demolition and/or relocation.

2) All Other control devices not related to the multi-purpose zone shall be removed from the boiler room.

3) Remove all thermostats, and other controls associated with equipment being removed.

HVAC SYMBOL LIST

- Rectangular or Round Air Duct (Plan View)
- Flexible Duct Connection
- Exhaust Register
- 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

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

CONSULTANTS:
MECHANICAL & ELECTRICAL: BURTON & VANHOUTEN ENGINEERS INC.
10 NORTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 236-2865
STRUCTURAL: GIRARD & CO. ENGINEERS
40 WETHERSFIELD AVENUE HARTFORD, CT. 06114 (203) 524-1594

HVAC FLOOR PLAN

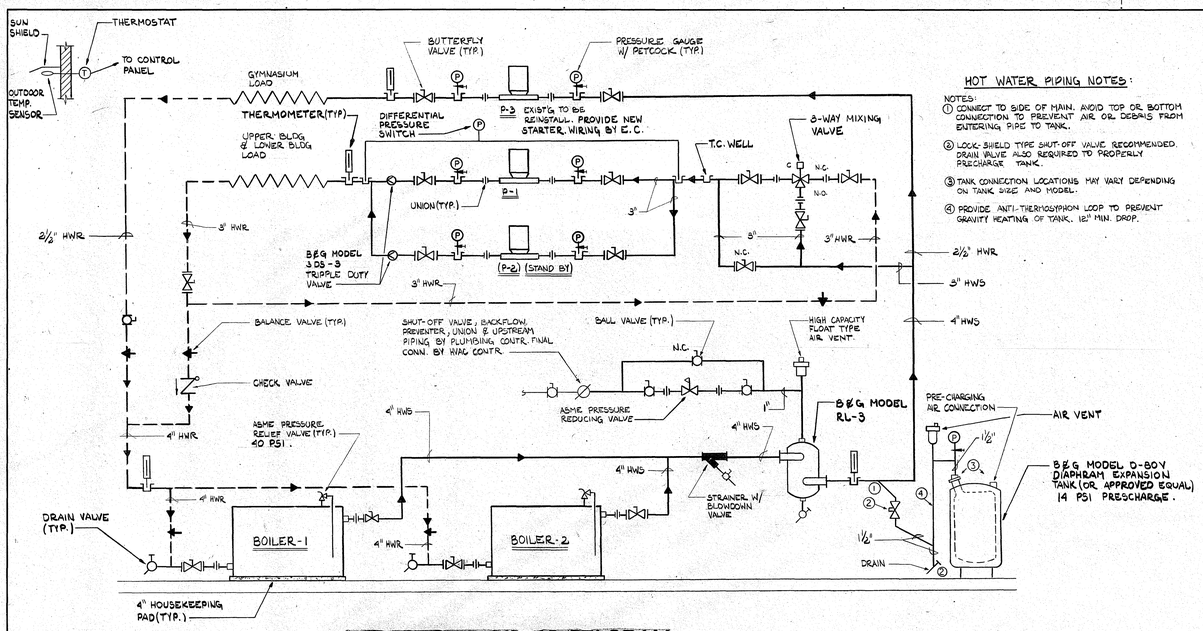
SCALE 1/8" = 1'-0" DRAWN BY A J L

DATE 3-1-88 REVISED

H - 1

BOOTH FREE SCHOOL ROXBURY

87279



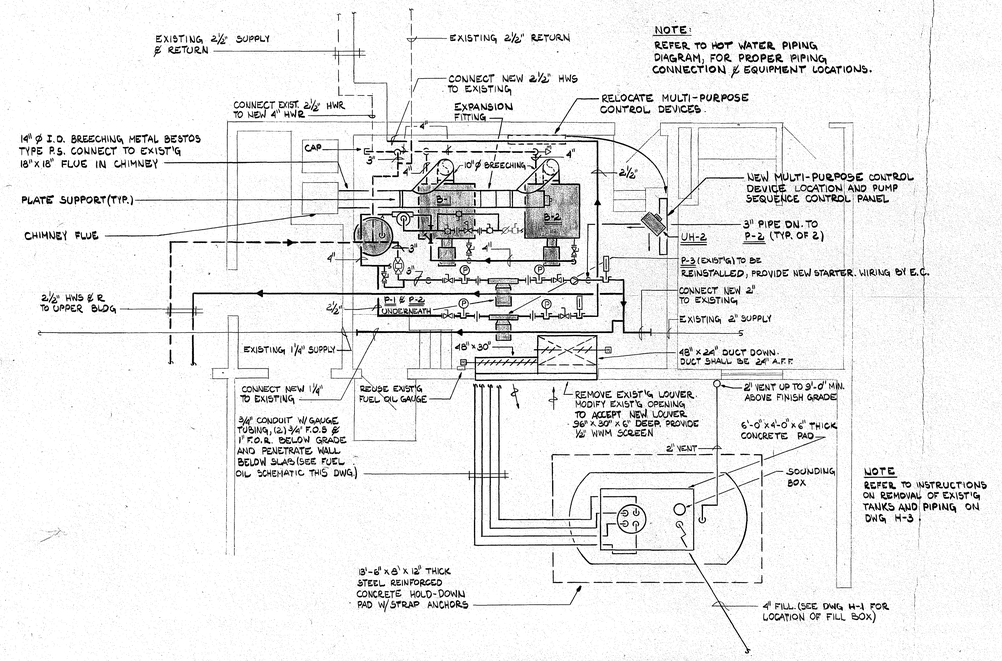
HOT WATER PIPING DIAGRAM

N. T. S.

HOT WATER PIPING 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.

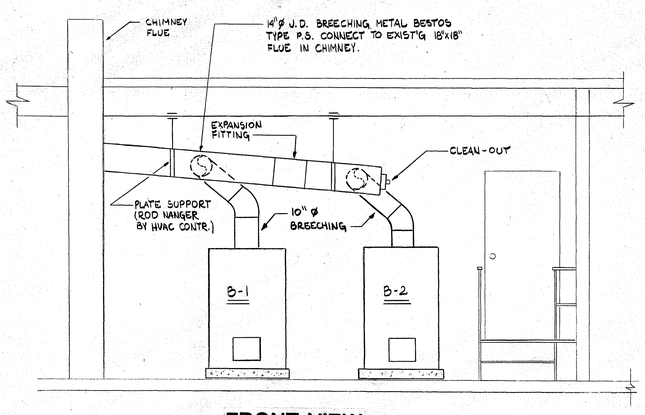


NOTE:
REFER TO HOT WATER PIPING DIAGRAM, FOR PROPER PIPING CONNECTION & EQUIPMENT LOCATIONS.

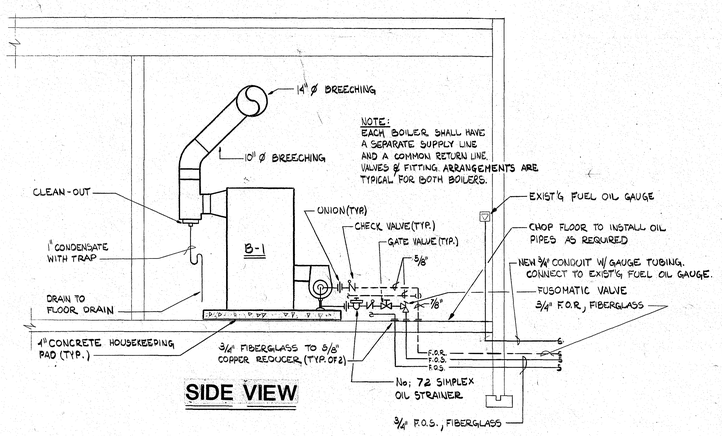
NOTE
REFER TO INSTRUCTIONS ON REMOVAL OF EXIST'G TANKS AND PIPING ON DWG. H-3.

BOILER ROOM AND FUEL OIL TANK PLAN

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



FRONT VIEW

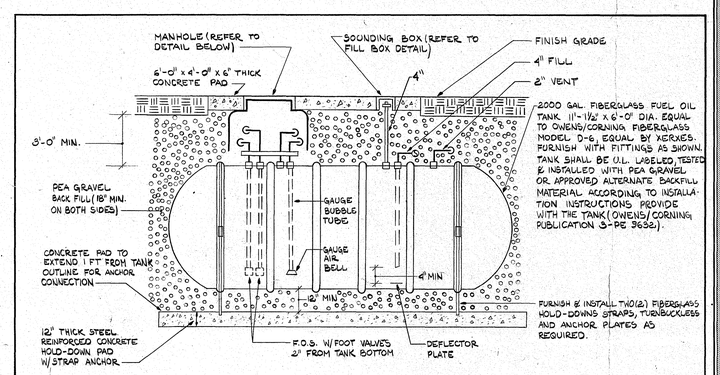


NOTE:
EACH BOILER SHALL HAVE A SEPARATE SUPPLY LINE AND A COMMON RETURN LINE. VALVES & FITTING ARRANGEMENTS ARE TYPICAL FOR BOTH BOILERS.

SIDE VIEW

BOILER ROOM BREECHING AND FUEL OIL PIPING ELEVATION

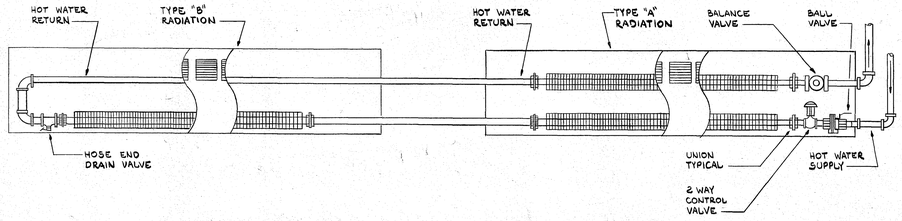
SCALE: 3/8 1 0



2000 GAL. FIBERGLASS FUEL OIL TANK. 11'-1½" x 6'-0" DIA. EQUAL TO OWENS/CORNING FIBERGLASS MODEL D-5, EQUAL BY VERVES. FURNISH WITH FITTINGS AS SHOWN. TANK SHALL BE U.L. LABELED, TESTED & INSTALLED WITH PEA GRAVEL OR APPROVED ALTERNATE BACKFILL MATERIAL ACCORDING TO INSTALLATION INSTRUCTIONS PROVIDE WITH THE TANK (OWENS/CORNING PUBLICATION S-PE 3632).

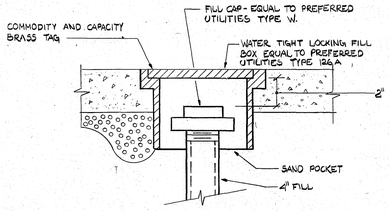
OIL TANK DETAIL

N.T.S.



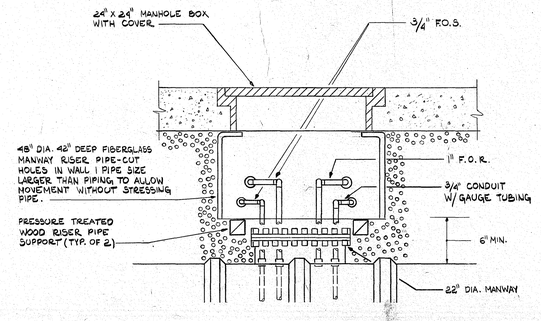
HOT WATER SINGLE AND DOUBLE TIER FIN TUBE RADIATION PIPING DIAGRAM DOWNFEED

N. T. S.



FILL BOX DETAIL

N.T.S.



MANHOLE DETAIL

N.T.S.

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 WETHERSFIELD AVENUE HARTFORD, CT. 06114 (203) 524-1544

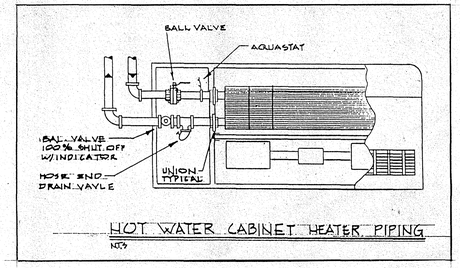
HVAC SCHEMATIC AND DETAILS

SCALE AS NOTED
DATE 9-1-95
DRAWN BY A J L
REVISED

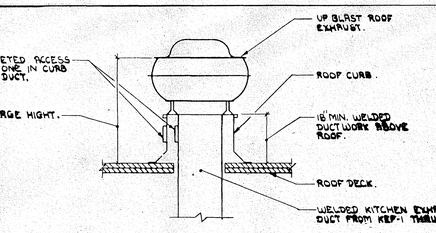
H - 2

BOOTH FREE SCHOOL ROXBURY

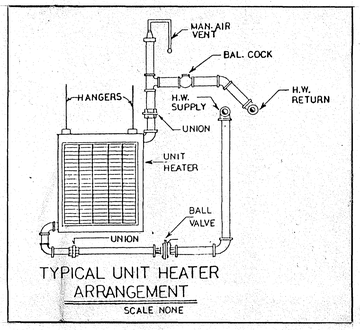
87279



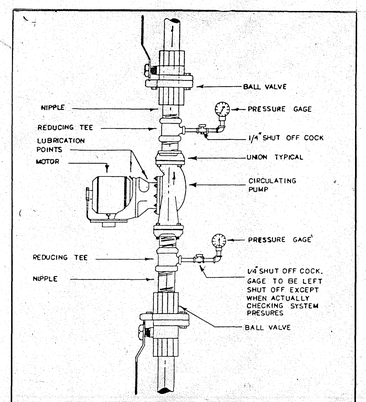
HOT WATER CABINET HEATER PIPING
NTS



KITCHEN HOOD EXHAUST FAN (KEF-1)
SCALE : N.T.S.



TYPICAL UNIT HEATER ARRANGEMENT
SCALE NONE



INSTALLATION DETAILS OF IN-LINE CIRCULATING PUMP
NTS

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.

KITCHEN EXHAUST HOOD

The HVAC Contractor shall furnish and install an exhaust hood wall type as manufactured by Weav-Air or equal. The unit shall be 9'-4" long by 4' wide by 24" high. Entire hood constructed of 18-gauge, Type 304 stainless steel #4 finish, all welded, all welds ground and polished to original finish. Hood to have a filter rack of 18-gauge stainless steel #4 finish, all welded, all welds ground and polished to original finish. Filter rack shall hold as many as required 20" x 20" x 2" UL listed stainless steel baffle type filters. Filters shall be installed at an angle not less than 45° from the horizontal. Filters shall be tight fitting and firmly held in place. Filters shall be easily accessible and reusable for cleaning. Filter rack shall be equipped with a drip tray and shall be kept to minimum size needed to collect the grease and pitched to drain to an enclosed stainless steel container having a capacity not to exceed one (1) gallon. On the front side of the hood there shall be a make-up air plenum constructed of 18-gauge stainless steel Type 304 #3 finish, all welded, all welds ground and polished to original finish. On the interior of the plenum, full length, there shall be an air distribution plate to give equal air flow; also the interior of the plenum shall be insulated with one (1") inch rigid fiberglass foil faced. The bottom of the plenum facing the filters shall be bent at the correct angle to achieve the velocity contour required to pull in room air to mix with untempered air to avoid fogging in cold weather. On the top of the hood there shall be stainless steel hanger brackets welded to hood; these shall be drilled out to receive 1/2-inch diameter hanger rods. Hood to have three (3) UL listed vaporproof lights to be installed on hood and prewired to junction box on top of hood. All wiring shall conform to local Codes and NFPA 96 Codes.

The hood shall exhaust 3700 CFM and untempered make-up air shall be 2900 CFM.

The hood and all of its components shall comply to present up dated NFPA 96 Codes and to the latest Public Health Code.

A fire suppression system shall be provided by the hood manufacturer to afford surface and duct fire protection for ranges, ovens and hot tops located under the hood. The system shall be Range Guard, as manufactured by Automatic Sprinkler Corporation, Cleveland, Ohio, and shall utilize Karboloy II as fire suppression agent or Engineer approved equal. Chrome-plated brass appliance nozzles shall be utilized across the front of the range hood with spacing as determined by equipment placement and size. All pipe and fittings shall be concealed where possible, exposed piping shall be stainless steel and sized according to flow rate. An automatic detection system shall be utilized to provide automatic discharge when the temperature reaches 360°F at the detectors which shall be located and installed according to manufacturer's and fire Code requirements. Detection cable shall be protected by 1/2" EMT (stainless steel where exposed on hood surface) and a ball bearing corner pulley shall be used for each change of direction, and shall incorporate a manual pull station. Pull station interlock by HVAC Contractor. Complete protection system shall be UL listed and by one (1) manufacture.

A pneumatic switch containing normally open, normally closed and common leads shall be supplied with the hood system. Hood fire suppression system shall be interlocked with appliance power circuit breakers. These shunt trip breakers, furnished and installed by the Electrical Contractor, shall be de-energized upon activation of hood fire suppression system. Interlock to breakers by the HVAC Contractor. Interlock hood fire suppression system with building fire alarm panel. The interlock wiring shall be installed by the Electrical Contractor according to wiring diagram furnished by the HVAC Contractor. Installation shall conform to insurance requirements and local and State fire Codes in effect at the time of installation.

ROOF AND KITCHEN EXHAUST FAN SCHEDULE (REF & KEF)

HVAC Contractor shall furnish and install roof exhaust fans as manufactured by Greenheck or approved equal. Fans shall be upblast or downblast as indicated by model number. Fan shall be furnished with gravity backdraft damper, 12" 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. Starter 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.

PAN	MODEL NO.	CFM	ESP	MOTOR HP	MOTOR VOLTAGE	FAN RPM	DRIVE	REMARKS
REF-1	G-100	500	3/8"	1/6	120-1Ø	1140	Direct	
KEF-1	CUBE-21-15	3740	1"	1-1/2	208-3Ø	1010	Belt	Provide: 18" roof curb, grease container, extended base with gasketed access door, NFPA Standard and U.L. listed for grease removal. No back-draft damper.

ROOF MAKE-UP FAN

Furnish and install centrifugal roof supply fans as manufactured by Greenheck or approved equal. Housing shall be aluminum or galvanized steel, with permanent slide racks for filters. Filters shall be permanent washable aluminum mesh type, sized to provide minimal pressure drop. Housing shall be constructed in a manner to prevent rain or snow from entering unit. Fan shall be double width, double inlet, forward curved centrifugal type, dynamically balanced and vibration isolated. Fans shall be belt driven through adjustable sheaves.

Furnish fans with 12" high self-flashing aluminum roof curbs, factory wired disconnect switches, magnetic starters with thermal overload and 115V control circuit, motorized damper, 115V. Fans shall be AMCA certified.

FAN NO.	MODEL NO.	CFM	ESP	MOTOR RPM	MOTOR HP	MOTOR VOLTAGE	REMARKS
RMF-1	RSF-12	3000	3/4"	798	1	208V-3Ø	Interlock with KEF-1 by T.C. Contractor.

WALL EXHAUST FAN

HVAC Contractor shall furnish and install wall exhaust fan as manufactured by Greenheck or approved equal. Unit shall be direct driven axial type. Motor shall be permanently lubricated, heavy duty type. Provide motor side guard, gravity back draft damper and wall mount collar.

FAN	MODEL NO.	CFM	ESP	MOTOR HP	MOTOR VOLTAGE	MOTOR RPM	REMARKS
WEF-1	SDE-12-32-A	800	3/8"	1/4	115V-1Ø	1725	

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, centritype. 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	DSQ-75-D	200	1/4"	1/25	1550	Direct	
IEF-2	BSQ-8-3	675	3/8"	1/3	1935	Belt	
IEF-3	BSQ-12-5	1740	1/2"	1/2	2010	Belt	208V/3P

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
A-CER	350RL	Opposed blade damper	Steel exhaust air register W/CEILING FIRE DAMPER SEE FIRE DAMPER SCHEDULE.
B-WER	350RL	Opposed blade damper	Steel exhaust air register

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 CFDR CEILING FIRE DAMPER. DAMPERS SHALL BE CLASSIFIED UNDER UL STANDARD 555 FOR USE IN ALL ROOF/CEILING ASSEMBLIES WITH FIRE RESISTANCE RATINGS OF 3 HOURS OR LESS. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.

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 IBR gross 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, thermaltimeter, return yoke with flexible seals, lead-lag controls, a manual reset high limit control, operating control and pre-piped M963M 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	LO28-W-4	798	693.90	Carlin 701CRD	115/1	1/2	#2	Set boilers on 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 factory mounted magnetic starters with H-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	MOTOR RPM	REMARKS
P-1, P-2	Series 60 2"A	91	31	1½	1750	Hot water pumps. One run, one standby.

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, 24-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, 24-inch mounting height, 14-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, 32 fins/LF rated at 1330 BTUH/LF at 190°F A.W.T.
C	Versa-line style JVA-S sloping top, 14-inch enclosure height, 18-inch mounting height, 14-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, 32 fins/LF rated at 1260 BTUH/LF at 190°F A.W.T.

UNIT HEATER (UH)

HVAC Contractor shall furnish and install unit heater as manufactured by Sterling, Airtherm, Trane, or approved equal. Motors shall have built-in thermal overload protection. Unit output based on 200°F E.W.T., 60°F E.A.T. Room thermostat and aquastat to cycle fan by Temperature Control Contractor. Furnish disconnect switch on unit. All units shall be equipped with double deflection louvers.

UNIT NO.	MODEL NO.	CAP MBH	CFM	MOTOR DATA HP	VOLT	PHASE	RPM	GPM	PRESSURE DROP FT H2O
UH-1	HS-125A	24.8	580	1/20	115	1	1550	2	2.2

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	MOTOR VOLTS	MOTOR PHASE	MOTOR RPM	REMARKS
CUH-1,2,3	H-46-A0-06	61.0	570	5.4	1/20	115	1	1075	
CUH-4	H-46-A0-10	81.0	1000	7.2	1/8	115	1	755	

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 4" A.F.F. to bottom of casing.

TYPE	MODEL NO.	LENGTH	WATTS	VOLTS	PHASE	BTU/HR	REMARKS
"A"	LCBJ-512-W	36"	564	120	1	1925	
"B"	LCBA-712-W	48"	752	120	1	2567	

ELECTRIC UNIT HEATERS (EUH)

HVAC Contractor shall furnish and install electric unit heater as manufactured by Berko. Equal by Singer may be submitted for approval. Horizontal type units shall have sheath fintube heating elements, overheat protection, adjustable louvers and controls as listed below. Vertical type units shall have metal sheath fintube 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 HP	VOLT	PHASE	CFM	TEMP RISE	REMARKS
UH-2	HDH-1020	9.6	32,765	208	3Ø	27.6	1/10	208	3Ø	500	61	Unit mounted thermostat.

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 fintube heating elements, overheat protection, adjustable louvers and controls as listed below. Vertical type units shall have metal sheath fintube 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-2	HUH-520-8	5	17,065	208	3Ø	13.8	1850	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 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 reactivate the heater when temperatures return to normal.

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

REMOVAL OF EXISTING TANKS AND PIPING

A. Empty, remove and dispose of the existing fuel oil tanks and the existing supply, return, vent and fill piping where noted on Drawing.

B. Tank removal shall be observed by a representative of the local Fire Marshal's office. The Contractor is responsible for all building department permits and fees.

C. Should any traces of oil leakage be found, the Contractor shall contact the State D.E.P. Hazardous Spill Unit (566-4633) and as directed shall test the excavation for levels of contaminants. Based on the test results, the State D.E.P. Hazardous Wastes Division (566-4869) will assign an approved dumpsite for any contaminants removed from the site.

D. Tank and pipe removal will be done in strict accordance with "The Connecticut Regulations for Control of Nonresidential Underground Storage and Handling of Oil and Petroleum Products", and with the requirements of NFPA 30, Appendix B, and the local Fire Marshal. Tank disposal shall be performed in a manner approved by the regulating authorities.

E. The Contractor shall include in the bid price unit pricing for contaminated soil removal (per cubic yard) and hauling cost (per mile).

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
WF	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
KEF	Kitchen Exhaust Fan
RMF	Roof Make-Up Fan
REF	Roof Exhaust Fan
UH	Unit Heater
IEF	Inline Exhaust Fan
CUH	Cabinet Unit Heater
RAD	Radiation

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

BURTON & VANHOUTEN ENGINEERS INC.
10 NORTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 236-2560

GIRARD & CO. ENGINEERS
49 WETHERSFIELD AVENUE HARTFORD, CT. 06114 (203) 524-1554

CONSULTANTS:
MECHANICAL & ELECTRICAL:
STRUCTURAL:

HVAC DETAILS AND SCHEDULES

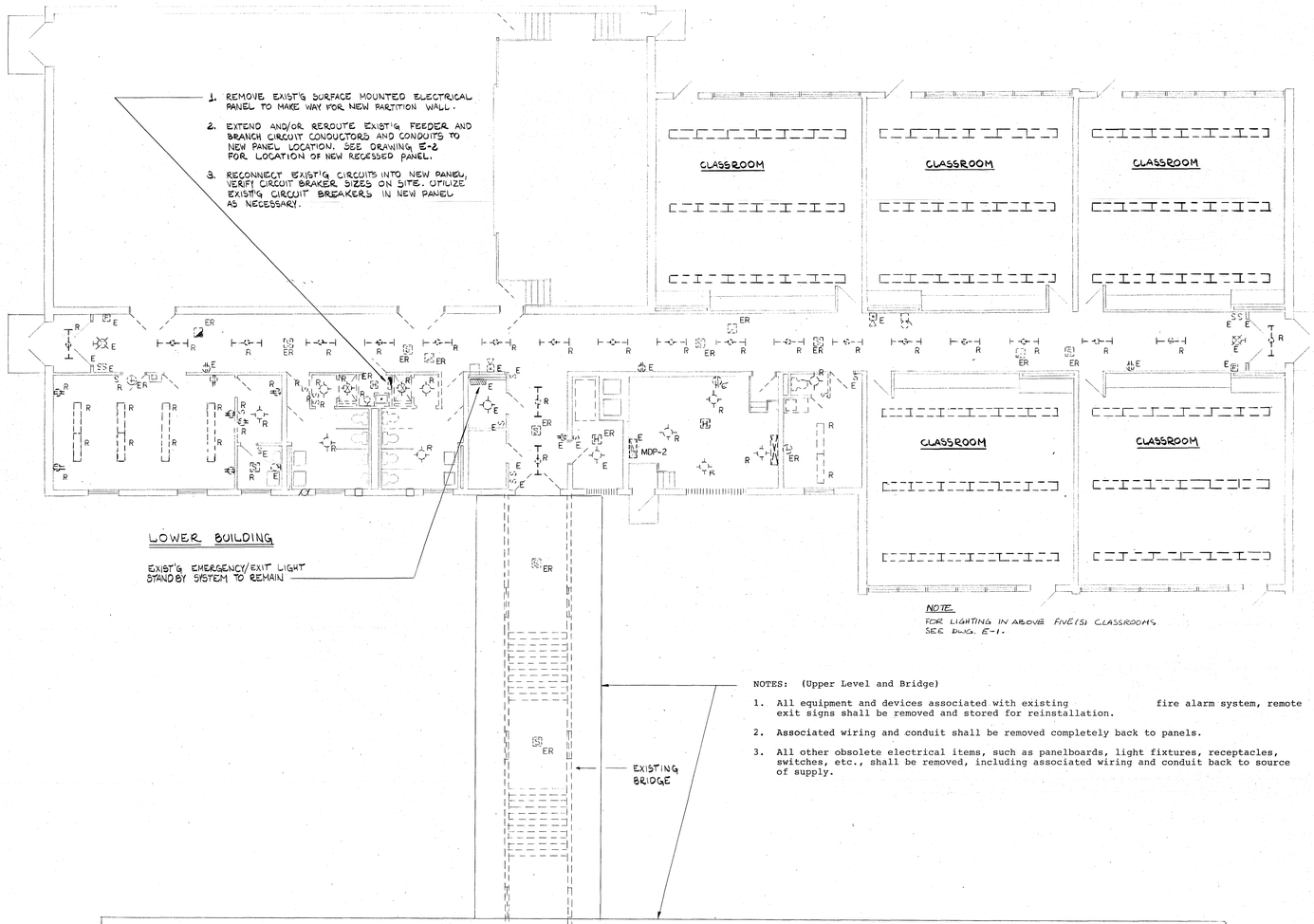
SCALE AS NOTED
DATE 3-1-88
DRAWN BY A.J.L.
REVISED

H-3

BOOTH FREE SCHOOL ROXBURY

#87279

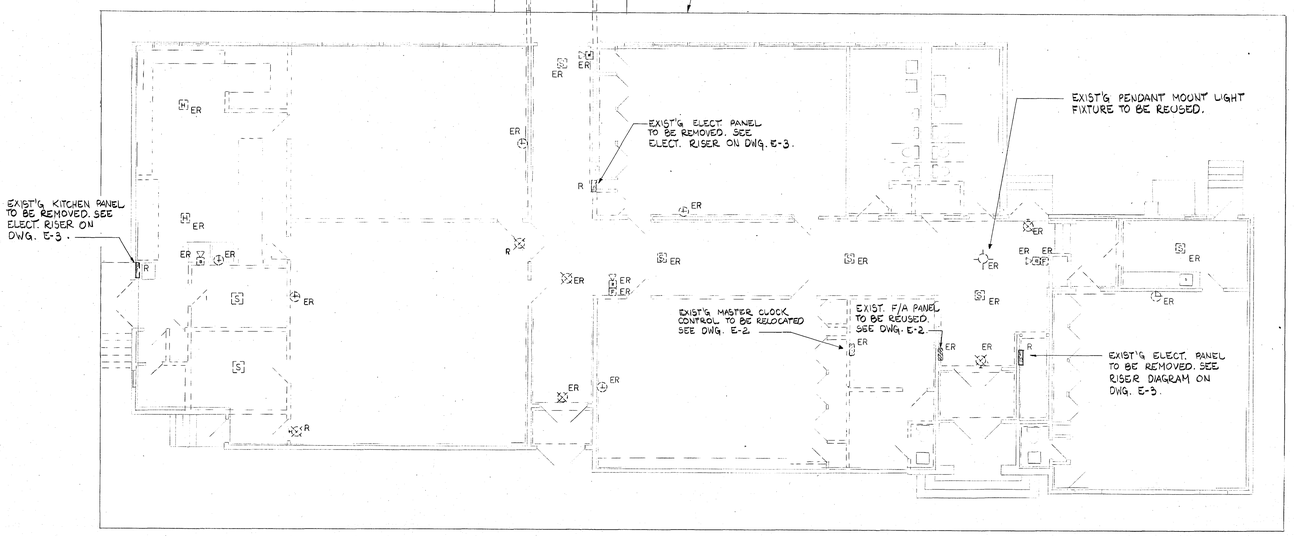
NOTE:
SEE DWG. E-1 FOR ALTERNATE PRICE FOR NOT REPLACING THE EXISTING CLASSROOM LIGHT FIXTURES SHOWN IN THE FIVE (5) EXISTING CLASSROOMS IN LOWER BUILDING.



NOTE
FOR LIGHTING IN ABOVE FIVE(5) CLASSROOMS SEE DWG. E-1.

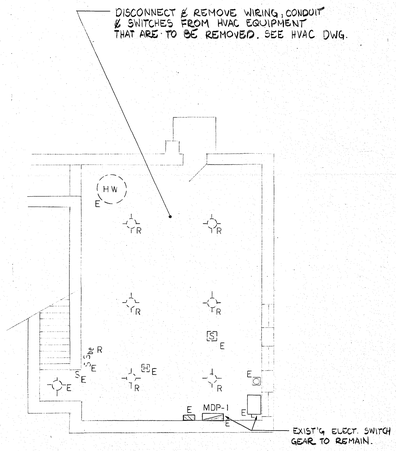
NOTES: (Upper Level and Bridge)

1. All equipment and devices associated with existing fire alarm system, remote exit signs shall be removed and stored for reinstallation.
2. Associated wiring and conduit shall be removed completely back to panels.
3. All other obsolete electrical items, such as panelboards, light fixtures, receptacles, switches, etc., shall be removed, including associated wiring and conduit back to source of supply.



MAIN LEVEL UPPER BUILDING

SCALE 1/8" = 1'-0"



BASEMENT UPPER LEVEL

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 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.

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) 236-2365
STRUCTURAL: GIRARD & CO. ENGINEERS
40 WETHERSFIELD AVENUE HARTFORD, CT. 06114 (203) 524-1564

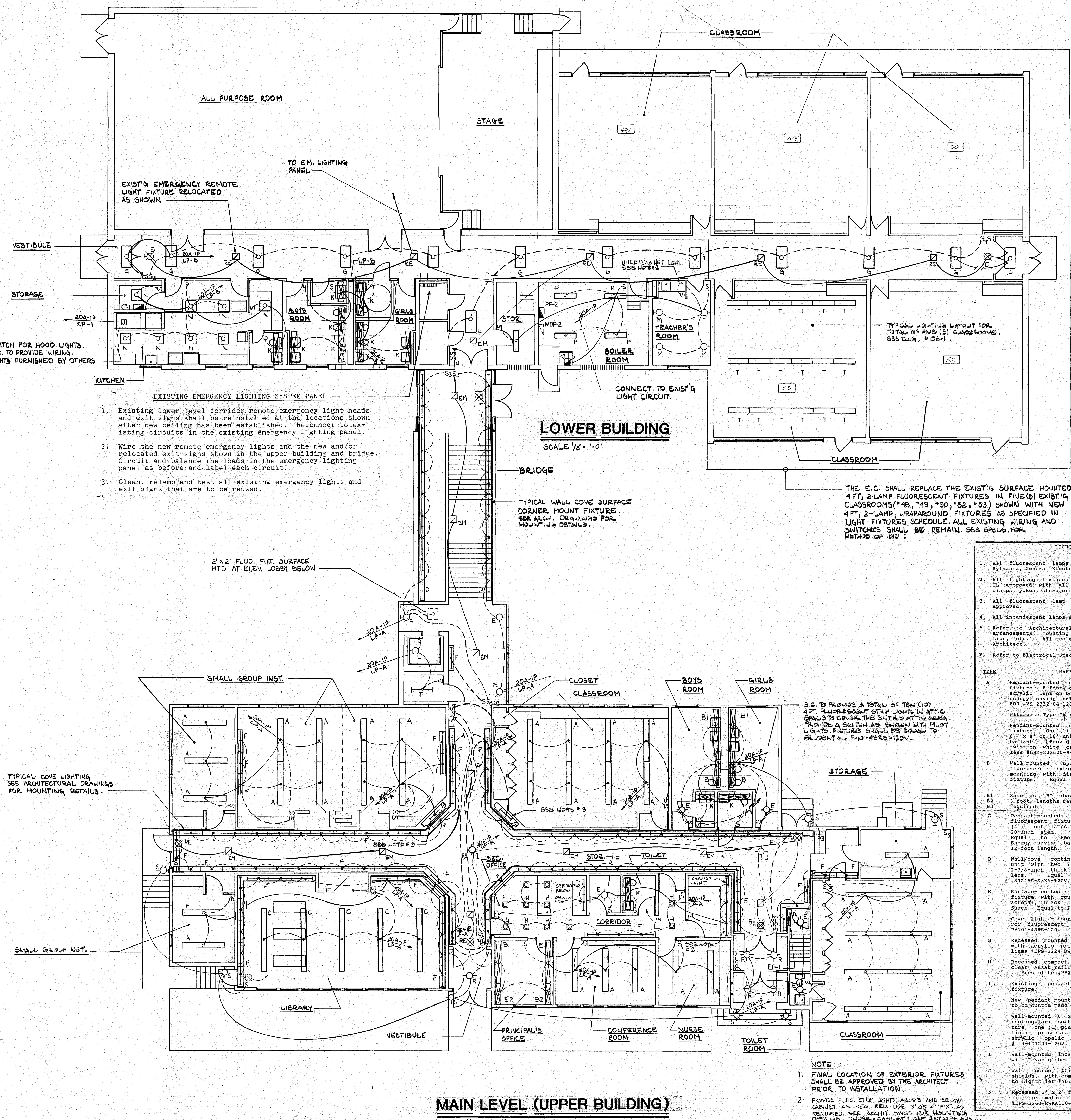
ELECTRICAL DEMOLITION PLAN

SCALE 1/8" = 1'-0"
DRAWN BY J.J.
DATE 9-1-89
REVISED

DE-1

BOOTH FREE SCHOOL ROXBURY

JOSEPH MERRITT & CO.
#87079



EXISTING EMERGENCY LIGHTING SYSTEM PANEL

1. Existing lower level corridor remote emergency light heads and exit signs shall be reinstalled at the locations shown after new ceiling has been established. Reconnect to existing circuits in the existing emergency lighting panel.
2. Wire the new remote emergency lights and the new and/or relocated exit signs shown in the upper building and bridge. Circuit and balance the loads in the emergency lighting panel as before and label each circuit.
3. Clean, relamp and test all existing emergency lights and exit signs that are to be reused.

THE E.C. SHALL REPLACE THE EXIST'G SURFACE MOUNTED 4FT, 2-LAMP FLUORESCENT FIXTURES IN FIVE (5) EXIST'G CLASSROOMS (#48, #49, #50, #52, #53) SHOWN WITH NEW 4FT, 2-LAMP, WRAPAROUND FIXTURES AS SPECIFIED IN LIGHT FIXTURES SCHEDULE. ALL EXISTING WIRING AND SWITCHES SHALL BE REMAIN. SEE SPECS. FOR METHOD OF BID.

NOTE

1. FINAL LOCATION OF EXTERIOR FIXTURES SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
2. PROVIDE FLUO. STRIP LIGHTS ABOVE AND BELOW CABINET AS REQUIRED. USE 3' OR 4' FIXT. AS REQUIRED. SEE ARCHIT. DWGS FOR MOUNTING DETAILS. UNDER-CABINET LIGHT FIXTURES SHALL BE EQUAL TO ALKCO "SUPER INCH" SERIES 115/215 FOR LENGTHS SHOWN ON DWG'S. LIGHT FIXTURES MOUNTED ON TOP OF CABINET (SEE ARCH. DWG) SHALL BE REGULAR FLUORESCENT STRIP LIGHTS ALONG FULL LENGTH OF CABINET.
3. DISPLAY CABINET LIGHT FIXTURE SHALL BE FLUORESCENT STRIP 2', 3' OR 4' LENGHTS AS REQUIRED, EQUAL TO PRUDENTIAL SERIES P-101 SEE ARCH. DWGS FOR MOUNTING DETAILS.

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.

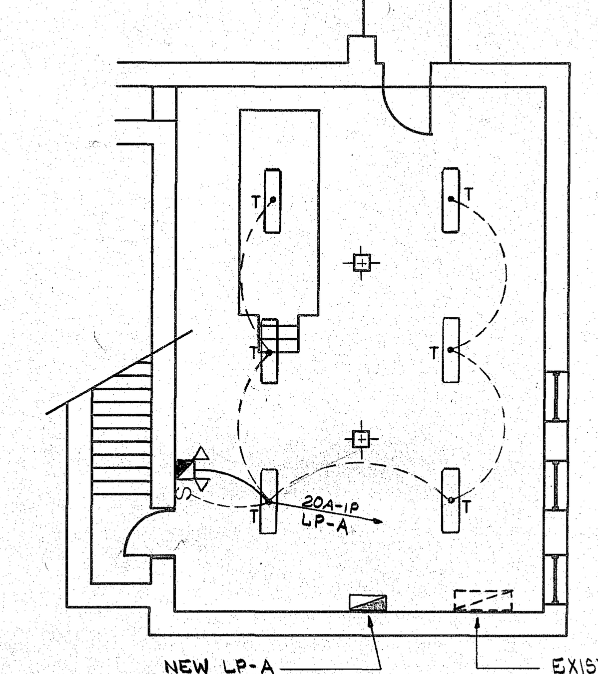
NOTE

1. THE E.C. SHALL SUBMIT WITH THE BASE BID AND LIST SEPARATELY, THE FOLLOWING BID:
   A. THE DEDUCT AMOUNT TO BE SUBTRACTED FROM THE BASE BID FOR NOT REPLACING THE EXIST'G LIGHT FIXTURES IN THE FIVE (5) CLASSROOM IN THE LOWER BUILDING AS SHOWN.

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, 8-foot or 16-foot length unit with acrylic lens on bottom shielding. 4-F34CW and energy saving ballast equal to Miller System 800 #VS-2332-04-120V.	4-F34-RS
	Alternate Type "A": Pendant-mounted direct-indirect fluorescent fixture. One (1) piece aluminum housing 10" x 6" x 8' or 16' unit with louver, energy saving ballast. Provide stems with five (5") inch twist-on white canopy cover. Equal to Peerless #LBM-202600-B-16-120.	4-F34-RS
B	Wall-mounted up/down 2-lamp rectangular fluorescent fixture, 6" x 6" continuous row mounting with diffuser on down portion of fixture. Equal to Peerless #LBR-211500-T12	2-F34-RS
B1 B2 B3	Same as "B" above, but in 6-foot, 4-foot and 3-foot lengths respectively. Provide lamps as required.	2-F34-RS
C	Pendant-mounted indirect continuous row fluorescent fixture with two (2) rows of four (4') foot lamps (up light only) suspended on 20-inch stem. 8" x 4-3/4" rectangular type. Equal to Peerless #LST-020454-12'-120V. Energy saving ballast with 6-F34CW lamps per 12-foot length.	6-F34-RS
D	Wall/cove continuous surface corner-mounted unit with two (2) rows of four (4') lamps, 2-7/8-inch thick x 9" deep, and with acrylic lens. Equal to Litecontrol 8300 Series #8324RS-S/XA-120V. Energy saving ballast.	2-F34-RS
E	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
F	Cove light - four (4') foot, 1-lamp continuous row fluorescent channel. Equal to Prudential P-101-48RS-120.	1-F34-RS
G	Recessed mounted 2' x 4', fluorescent troffer with acrylic prismatic lens. Equal to Williams #EPG-S224-RWKA110.	4-F34-RS
H	Recessed compact fluorescent (PL) fixture with clear Aszak reflector and black baffle. Equal to Prescolite #PBXTB93.	2-9W-PL
I	Existing pendant-mounted incandescent light fixture.	
J	New pendant-mounted incandescent light fixture to be custom made to match existing Type "I".	
K	Wall-mounted 6" x 6", 4-foot, 6-foot or 8-foot rectangular; softshine optics fluorescent fixture, one (1) piece extruded aluminum housing, linear prismatic virgin acrylic with 15% DR acrylic opalic lens. Equal to Peerless #LL9-101201-120V.	2-F34-RS
L	Wall-mounted incandescent vapor tight fixture with Lexan globe. Equal to Stonco #VWXL-5A.	1-100W-A19
M	Wall sconce, triple round concentric metal shields, with compact fluorescent lamp. Equal to Lightolier #4071.	1-13W-PL
N	Recessed 2' x 2' fluorescent troffer with acrylic prismatic lens. Equal to Williams #EPG-S262-RWKA110-120.	2-F34-RS
O	Not used	
P	Industrial type four (4') foot, 2-lamp fluorescent fixture with leaked white enamel reflector, 15% uplight, suspended from ceiling on chain or stem hangers to ten (10') feet AFF. Equal to Keystone Dynamo #KL240-120.	2-F34-RS
R	Ceiling-mounted (surface) incandescent fixture with durable spun aluminum cylinder, cast aluminum fittings and baffle. Equal to Prescolite #9340.	1-75W-R30
S	Wall-mounted incandescent fixture with durable spun aluminum downlight with cast aluminum fittings and one (1) piece grooved aluminum baffle suitable for wet locations. Equal to Prescolite #9344.	1-75W-R30
T	Surface-mounted wraparound low brightness fluorescent fixture (48" x 10-15/16" x 3-1/16") extruded reflector of clear acrylic prismatic lens, with energy saving ballast. Equal to Miller Indigo 2, #DA-2101-04-120.	2-F34-RS
(exit sign symbol)	Remote exit sign, surface, ceiling or end mounting with single or double face as shown. New exit signs shall match existing base building standard.	Included
(emergency light symbol)	Remote emergency light fixture, 9" x 9" square, wall, ceiling, or semi-recessed mounted. Equal to Dual-Lite Model RERS-1, with lamp voltage to match existing inverter system.	Included
(self-contained emergency light symbol)	Self-contained emergency light fixture with dual heads, surface-mounted. Equal to Dual-Lite Spectron Series, Lumenette Series (S1 #ML-2.	Included



BASEMENT PLAN (UPPER BUILDING)
SCALE 1/8" = 1'-0"

BOOTH FREE SCHOOL ROXBURY

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

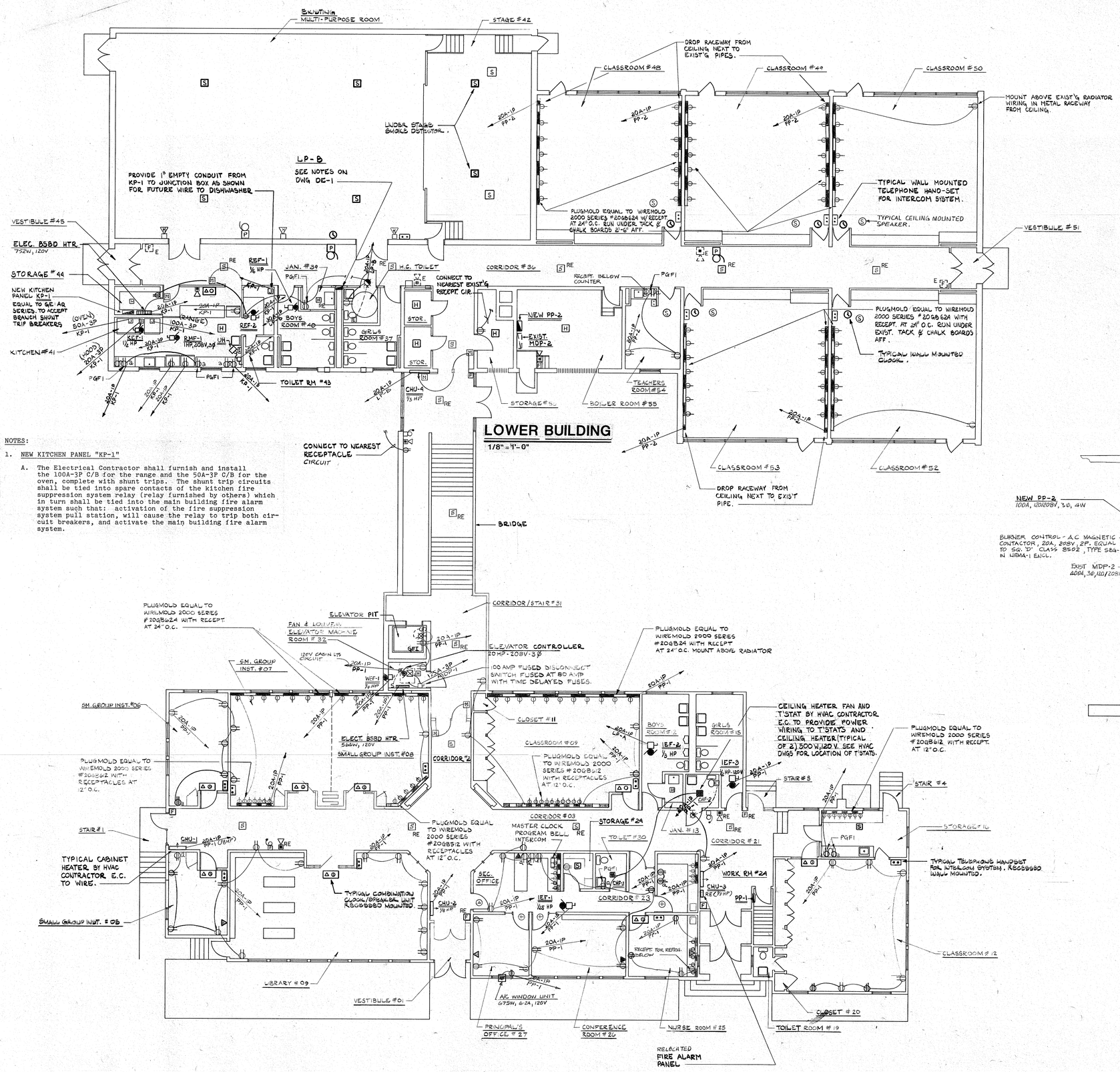
CONSULTANTS:
MECHANICAL & ELECTRICAL: BURTON & VANHOUTEN ENGINEERS INC.
10 NORTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 236-2385
STRUCTURAL: GIRARD & CO. ENGINEERS
40 WETHERSFIELD AVENUE HARTFORD, CT. 06114 (203) 524-1594

ELECTRICAL FLOOR PLAN-LIGHTING

SCALE 1/8" = 1'-0" DRAWN BY J.J.
DATE 9-1-88 REVISED

E-1

#87279



LOWER BUILDING

1/8" = 1'-0"

NOTES:

1. NEW KITCHEN PANEL "KP-1"

   A. The Electrical Contractor shall furnish and install the 100A-3P C/B for the range and the 50A-3P C/B for the oven, complete with shunt trips. The shunt trip circuits shall be tied into spare contacts of the kitchen fire suppression system relay (relay furnished by others) which in turn shall be tied into the main building fire alarm system such that: activation of the fire suppression system pull station, will cause the relay to trip both circuit breakers, and activate the main building fire alarm system.

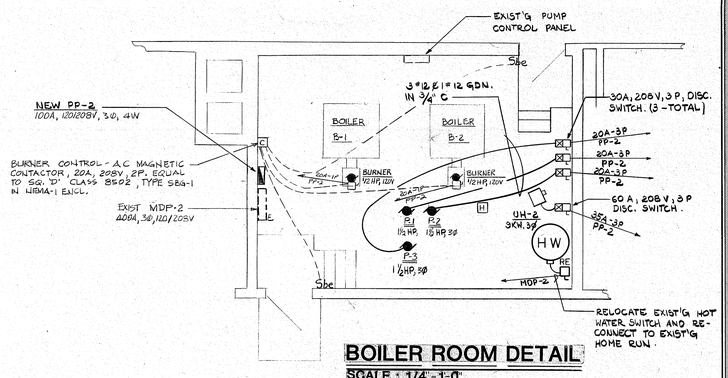
MAIN LEVEL - UPPER BUILDING

1/8" = 1'-0"

General Notes

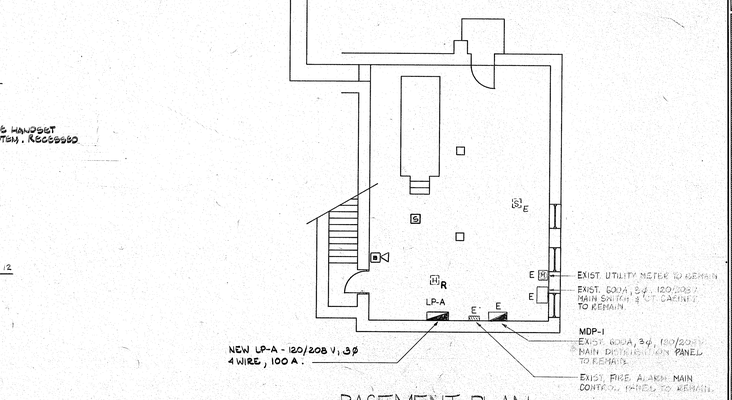
1. Electrical Trade Contractor shall maintain electrical continuity to any receptacles or lighting that remains for any of the following;
   (a) Only part of the wall or ceiling in area removed leaving devices that were on the same circuit as ones removed.
   (b) New receptacles or lighting installed 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.



BOILER ROOM DETAIL

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



BASEMENT PLAN

SCALE 1/8" = 1'-0"

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

CONSULTANTS:
BURTON & VANHOUTEN ENGINEERS INC.
10 NORTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 236-2565
MECHANICAL & ELECTRICAL:
GIRARD & CO. ENGINEERS
40 WATERSFIELD AVENUE HARTFORD, CT. 06114 (203) 524-1544
STRUCTURAL:

ELECTRICAL FLOOR PLAN-POWER

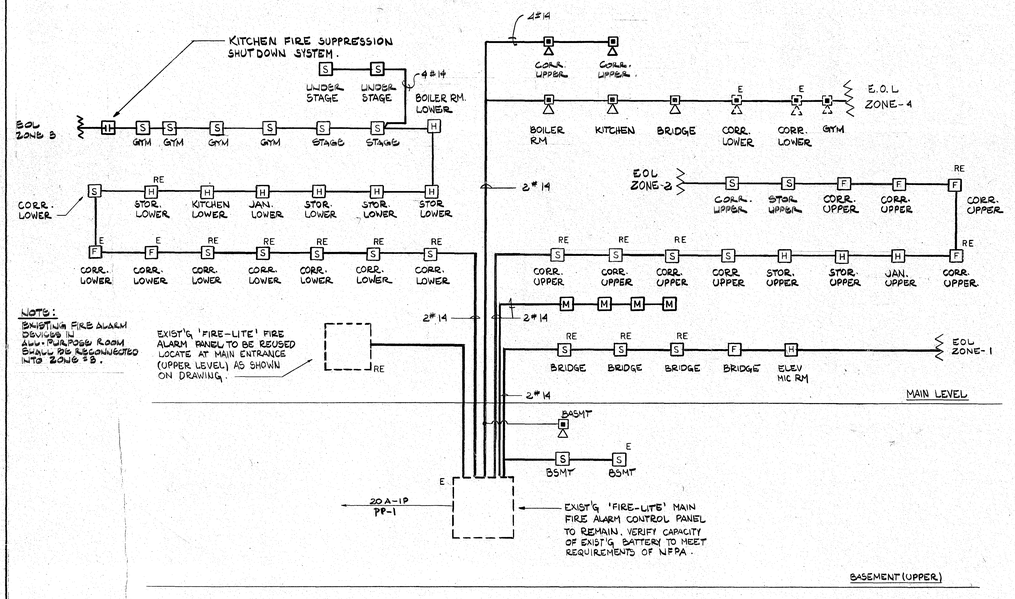
SCALE 1/8" = 1'-0"
DRAWN BY J.M.
REVISED
DATE 9-1-86

E-2

BOOTH FREE SCHOOL ROXBURY

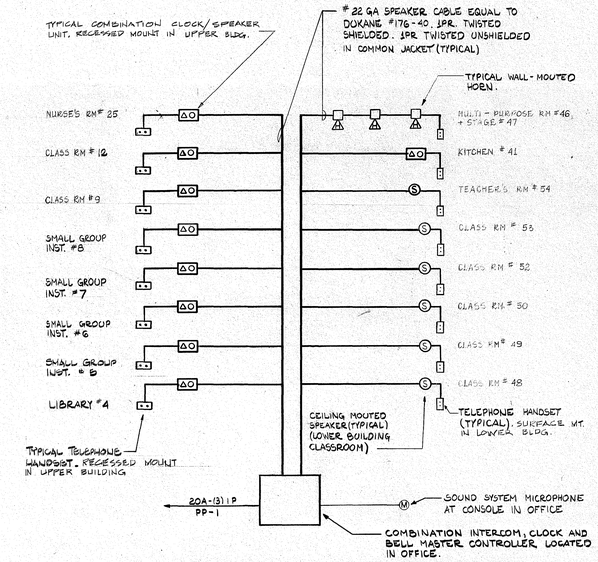
ELECTRICAL LEGEND

- Recessed downlight fixture; subletter indicates fixture type.
- Surface-mounted light fixture; subletter indicates fixture type.
- 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.
- Ceiling or wall-mounted, self-contained exit sign with directional arrows as indicated on Plans.
- 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_{b_E} — Boiler emergency switch; mount at 48" AFF.
- S_D — Single-pole dimmer switch; mount at 48" AFF.
- $_{a,b}$ — 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.
- $_{WP}$ — Weatherproof, duplex receptacle; mount at 24" AFG.
- Single receptacle; mount at 18" AFF.
- $_{30A}$ — 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.
- 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.
- $_{F,W}$ — 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.
- Disconnect switch with appropriate HP ratings.
- Electric motor.
- J — Junction box, according to NEC requirements.
- C — Relay or contactor, complete with NEMA enclosure.
- $_{W,P}$ — 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.



FIRE ALARM RISER

N. T. S.

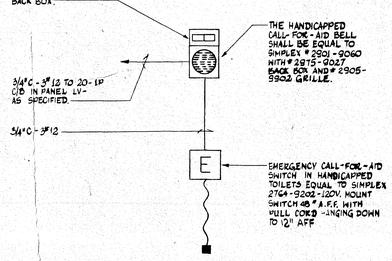


COMMUNICATION SYSTEM'S RISER

NTS

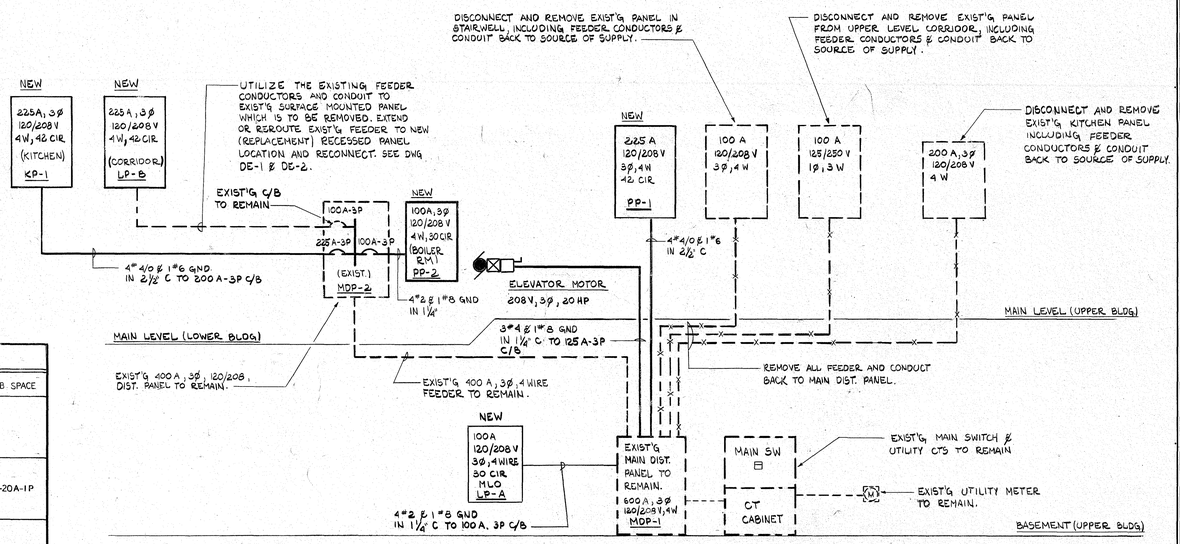
KEY

- COMBINATION CLOCK/SPEAKER UNIT
- TELEPHONE HANDSET
- CEILING-MOUTED SPEAKER (RECESSED MOUTED)
- WALL-MOUNTED HORN (GYM ONLY)



HANDICAPPED EMERGENCY CALL-FOR-AID

NTS



PARTIAL ELECTRICAL DISTRIBUTION SYSTEM

N. T. S.

NOTES:

1. Electrical Contractor to provide a new 225A-3P C/B for KP-1, and a new 100A-3P C/B for PP-2 in spare space of MDP-2. New circuit breakers shall be compatible with existing panelboard. Electrical Contractor to field verify for A.I.C. Rating.
2. Utilize the existing circuit breakers for new PP-1 and LP-A in existing MDP-1. Any additional C/B shall be compatible with the existing.

PANEL SCHEDULE

PANEL	VOLTAGE	PHASE	SIZE	MAIN C/B	C/B ACTIVE	C/B SPARE	C/B SPACE
KP-1	208/120	3 4-WIRE	225 A 42 CIR	200 A	12-20A-1P 3-20A-3P 1-50A-3P* 1-100A-3P*	5-20A-1P	
LP-A	208/120	3 4-WIRE	225 A 42 CIR	MLO	17-20A-1P	8-20A-1P	5-20A-1P
LP-B	208/120	3 4-WIRE	225 A 42 CIR	MLO	25-20A-1P	5-20A-1P	12-20A-1P
PP-1	208/120	3 4-WIRE	100 A 30 CIR	MLO	30-20A-1P	7-20A-1P	5-20A-1P
PP-2	208/120	3 4-WIRE	100 A 30 CIR	MLO	6-20A-1P 1-20A-2P 3-20A-3P 1-35A-3P	5-20A-1P	5-20A-1P

* CIRCUIT BREAKER FITTED WITH SHUNT TRIP

C. J. LAWLER ASSOCIATES
ARCHITECTS & PLANNERS
7 SOUTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 233-8528

CONSULTANTS:
MECHANICAL & ELECTRICAL: BURTON & VANHOUTEN ENGINEERS INC. 10 NORTH MAIN STREET WEST HARTFORD, CT. 06107 (203) 236-2366
STRUCTURAL: GIRARD & CO. ENGINEERS 40 WETHERSFIELD AVENUE HARTFORD, CT. 06114 (203) 524-1594

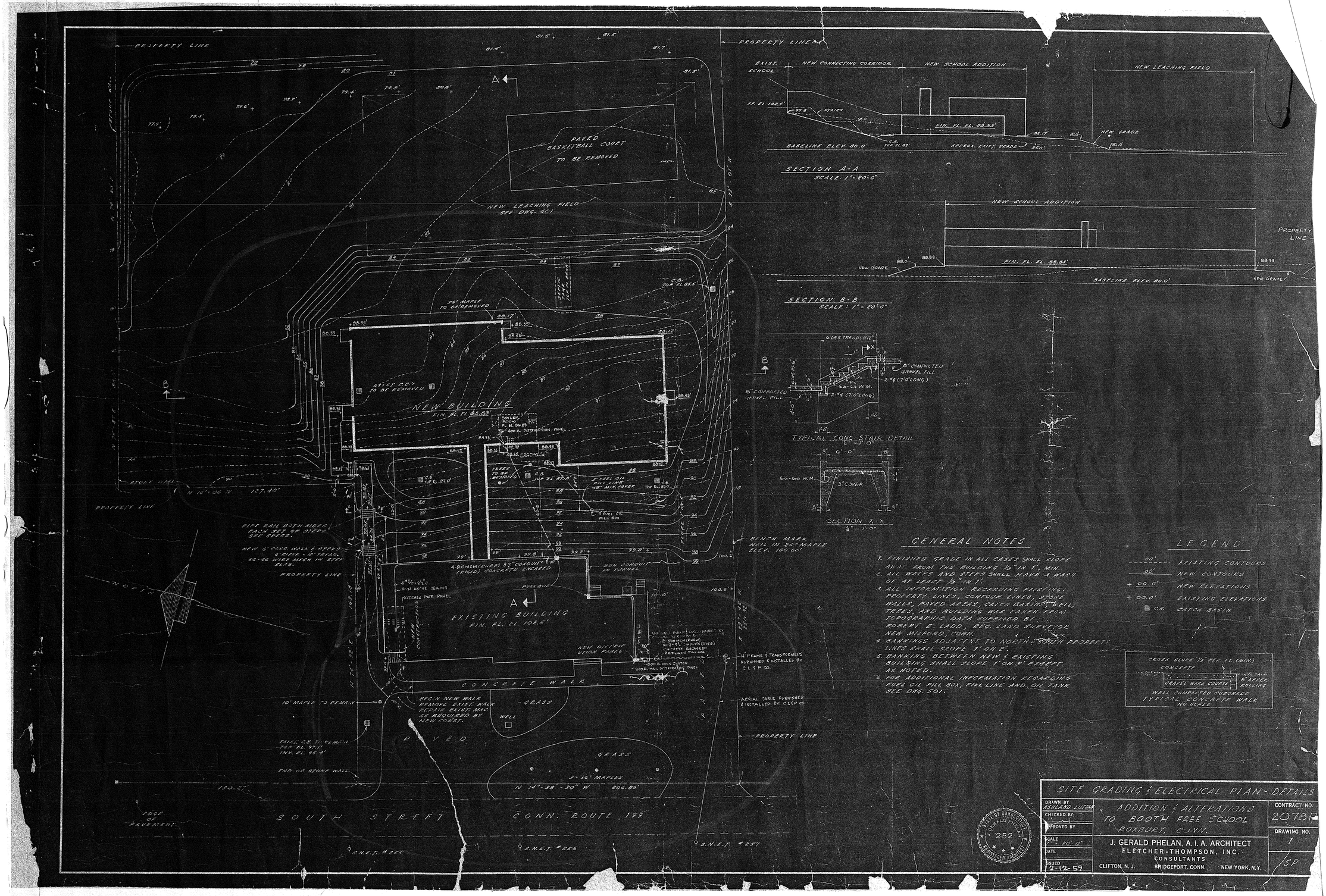
BOOTH FREE SCHOOL ROXBURY

RISER DIAGRAM, LEGEND AND DETAILS

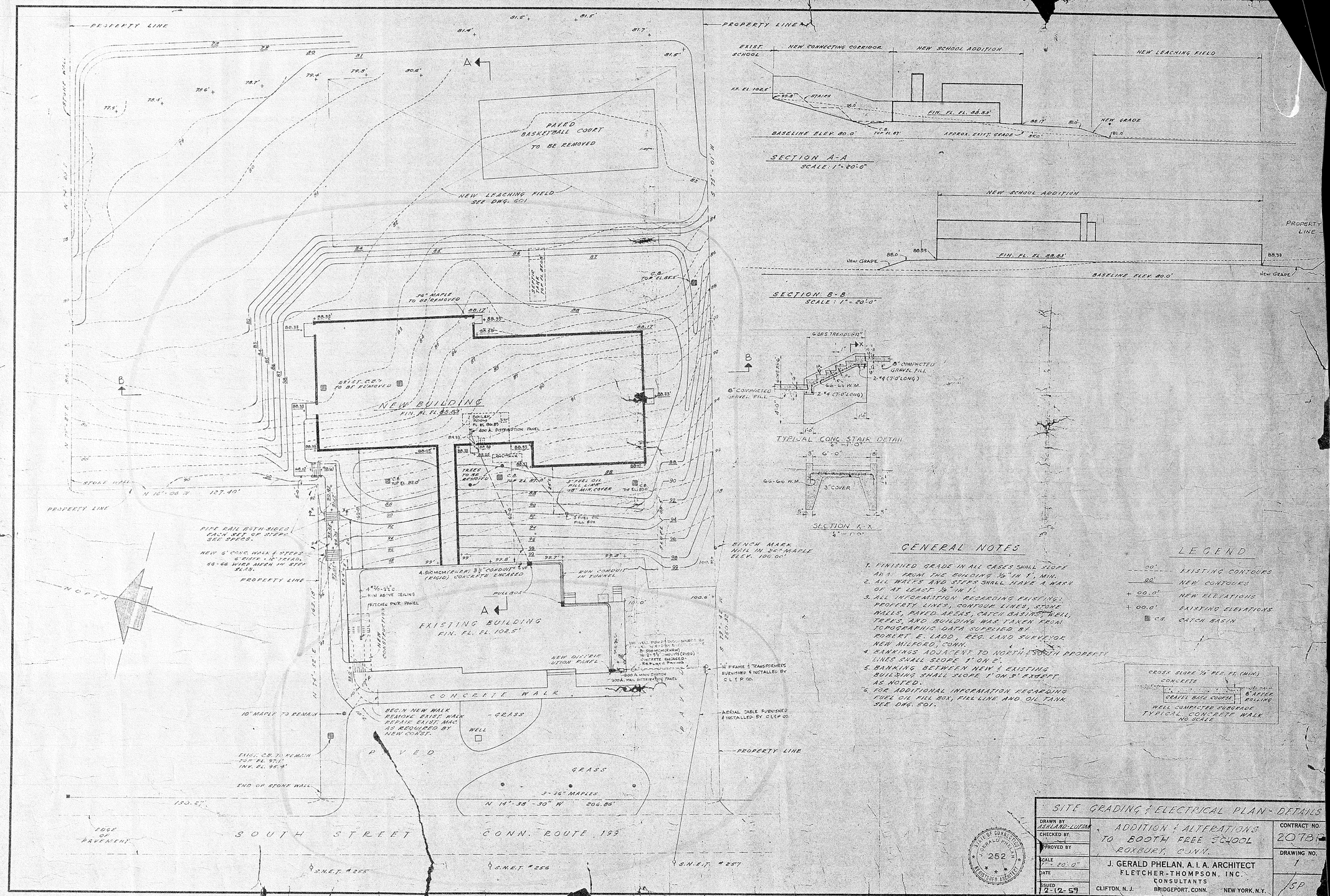
SCALE NONE
DRAWN BY J.J.
DATE 9-1-95
REVISED

E-3

87279



1. partial
2. Total
3. boundary



1. partial
2. Total
3. boundary