WESTPORT PUBLIC SCHOOLS CONNECTICUT

REQUEST FOR PROPOSALS
FOR

SAUGATUCK ELEMENTARY SCHOOL
REPLACEMENT OF COOLING TOWERS

WESTPORT, CT 06880

#25-018-RFP

Issued for Bid: March 25, 2025

REQUEST FOR PROPOSALS

FOR:

SAUGATUCK ELEMENTARY SCHOOL

REPLACEMENT OF COOLING TOWERS

25-018 RFP

The deadline for submission of proposals is Friday**, April 18, 2025, at 2:00 p.m. EST.** Submit one (1) sealed paper copy and one (1) electronic copy (on flash drive) of the proposal to:

Elio Longo
Chief Financial Officer
Westport Public Schools
110 Myrtle Avenue
Westport, CT 06880

LATE OR INCOMPLETE BIDS WILL NOT BE ACCEPTED

Mark in left hand corner of envelope:

RFP: **#25-018 RFP**

Due: **April 18, 2025, at 2:00 p.m. EST**

Submitted by: _____

The designated contact for this RFP is listed below. All questions regarding this RFP must be submitted in writing to the designated contact within the timeframes set forth in the RFP Schedule. Copies of questions and responses will be issued to all respondents as an Addendum to this RFP as set forth in the RFP Schedule.

Designated contact: Theodore Hunyadi, Director of Facilities, (thunyadi@westportps.org)

I. RESERVATION OF RIGHTS:

A. The Town of Westport reserves the right to qualify multiple respondents.

B. The Town of Westport reserves the right to reject any and all proposals submitted in response to this Request for Proposals ("RFP").

C. The Town of Westport reserves the right to terminate this RFP process at any time.

D. The Town of Westport reserves the right to waive any non-conformity with the requirements of this RFP.

E. The Town of Westport reserves the right to seek clarification from a respondent at any time throughout the RFP process for the purpose of resolving ambiguities or questioning information presented in the proposal.

F. The Town of Westport reserves the right to apportion the award among one or more respondents.

II. RFP SCHEDULE:

RFP Issued:	Tuesday, March 25, 2025
Site Review -**Mandatory**:	Wednesday, April 2, 2025 at 3:15 p.m.
(Meet at the front of Staples High School-Door #1 at Main Lobby)	
Deadline for Questions:	Thursday, April 10, 2025 at 1:00 p.m.
Answers Issued By Addendum:	Monday, April 14, 2025 by 2:00 p.m.
Proposals Due:	Friday, April 18, 2025 at 2:00 p.m.

III. INTRODUCTION

A. The Town of Westport is looking for a design firm to perform a thorough review and provide drawings and specifications to address the necessary replacement of the existing cooling towers as well as the associated condenser water piping system at the Saugatuck Elementary School facility. The cooling towers are at the end of useful life and the current condenser water system does not support operation of both existing chillers on site. The condenser water system pumps and piping configurations need to be reviewed for adequate sizing and specification to support both chiller's simultaneous operation.

B. The existing steel structure supporting the cooling towers needs to be evaluated and recommendations to repair or replace the steel should be included if necessary.

C. The submission should include all required controls and control sequences compatible with the existing building management system at the campus.

D. Saugatuck Elementary School is located at 170 Riverside Avenue in Westport, Connecticut.

E. The Town of Westport is seeking design proposals from architectural and/or engineering firms who are qualified in the provision of drawings and specifications for the work referenced within this request for proposal.

F. A mandatory site review meeting is scheduled for 3:15 p.m. (following student dismissal) on Wednesday, April 2, 2025. This meeting will begin at Staples High School with review of several projects there and then we will review as a group the Saugatuck Elementary School Cooling Towers.

G. The Town of Westport presently intends to schedule this scope of work beginning in the summer of 2026 (once school is dismissed-approximately June 14) and anticipates the scope of work to last approximately ten weeks.

IV. SCOPE OF BASIC SERVICES

A. The following services are required of the architect and/or engineer:

- The selected firm shall provide the necessary drawings and specifications to address:
  1. The replacement of the existing cooling towers
  2. Reduction in cooling tower noise levels
  3. Means of safe access to the top of the new cooling towers for service & maintenance
  4. The necessary modifications to the condenser water system pumps and piping configuration to support the simultaneous operation of both existing chillers on site
  5. The necessary modifications or repairs to the steel structure supporting the cooling towers
  6. The necessary controls and control sequences to integrate cooling tower operation with existing chiller plant operations
  7. Implementation of condenser water temperature reset control for energy conservation
  8. Pricing from a professional estimating agency to implement the project broken down by labor and material costs per task.
- The selected firm shall provide all associated drawings, specifications and bid package documentation required of the contractor to perform the corrective work.
- Note that the project will be subject to Prevailing Wage Rates.

B. Attached are three exhibits, as part of this RFP, which are provided for reference:

- Exhibit 3-Building structural drawing set dated 1966.
- Exhibit 4-Building mechanical drawings from April 2001 renovation bid set.
- Exhibit 5-Pictures of existing cooling tower dated March 2024.

C. The following systems are to be incorporated into the condenser water system upgrades and design based on a prior review with the district:

- Cooling Towers, including dunnage, twenty (20) year rust protection dunnage coating, stainless steel sumps, whisperer (whisper quiet fans), polymer resin infill, vibration isolators, piping and control valves, lightening protection and safe means of access to all portions of the towers for service & maintenance
- Condenser Water System piping configurations
- Condenser Water System pumps
- Cooling Tower Power and Control System
- Control Accessories

V. PROPOSAL REQUIREMENTS

In order to be considered, proposals submitted in response to this RFP shall include the following information, which shall be presented in the below established format:

- A narrative introduction to your firm's experience and history in providing these design services for similar systems.

- An in depth narrative of your firm's applicable experience on relevant projects including detail on: a) the project scope and size, b) value of the resulting construction and/or renovation work, c) the identification of any involved sub-consultants and/or joint-venture partners, particularly those that were/are certified Minority ("MBE") or Woman Owned Business Enterprises ("WBE"), d) contact information for at least one Owner Representative per project, and e) a description of related chiller plant project experience with a school district project owner.

- Current resumes of all personnel that will be assigned to this project if your firm is selected to provide these design services. In addition, explain what role will be played by each member of your proposed team for these design services.

- Respondent's proposed organizational chart for this design proposal, identifying the specific roles of each team members.

- Disclose whether any shareholder, director, officer or employee is currently employed by the Town of Westport or was an employee of the Town of Westport during the two (2) year period preceding the date of the proposal.

- The following criteria, not listed in priority order, shall be considered in evaluating and selecting the proposing firms based upon qualifications and written proposal submissions:

    1. Quality of proposal
    2. Experience of firm with similar projects
    3. Success of completed projects
    4. Fee for services

VI. COMPENSATION

- Compensation for the proposed services shall be based on a combination of a lump sum fee for the defined "Basic Services" and forecasted costs associated with the defined "Reimbursable Services & Expenses".

- Compensation for travel time incurred to and from the site, reimbursements, meals, etc., whether associated with the provision of Basic or Reimbursable Services, shall **NOT** be considered or reimbursed.

- Reimbursable expenses shall be billed at cost with no markup.

- Any desired additional services beyond the defined scope shall be mutually agreed to in writing and shall be based upon mutually agreed to hourly rates.

VII. QUESTIONS

All questions shall be submitted in writing to Mr. Ravi Chavan, Sr. Project Manager for Commissioning via email to ravi.chavan@collierseng.com with a copy to Mr. John Koplas, Sr. Project Manager via email to john.koplas@collierseng.com and a copy to Mr. Elio Longo, Chief Financial Officer, elongo@westportps.org by 1:00 p.m. on Thursday, April 10, 2025. Addenda will be prepared and posted to the district bidding website by 2:00 p.m. on Monday, April 14, 2025.

VIII INSURANCE REQUIREMENTS

The successful respondent shall furnish a certificate of insurance to the Board for the following insurance coverage within ten (10) days from contract execution. The certificate of insurance shall contain the project description and name the Board as an additional insured. All insurance coverage shall be written with an insurance company licensed to conduct business in the State of Connecticut. Insurance coverage shall remain in full force for the duration of the contract term including any and all extensions. Such certificate of insurance shall specify that the Board will receive thirty (30) days' notice of any cancellation, non-renewal or reduction in coverage and limits originally provided.

1. General Liability with a combined single limit of $1,000,000 per occurrence, $2,000,000 aggregate for bodily injury and property damage.

2. Automobile Liability with a combined single limit of $1,000,000 per occurrence, $2,000,000 aggregate for owned, non-owned, and hired vehicles.

3. Workers Compensation with a minimum of $500,000 as required by the State of Connecticut.

4. Professional Liability with a combined single limit of $1,000,000 per occurrence, $2,000,000 aggregate.

5. Umbrella Liability with a combined single limit of $1,000,000 per occurrence, $2,000,000 aggregate for bodily injury and property damage.

IX. OTHER

- The Board reserves the right to reject any and all proposals when it deems such action is in the best interests of the Board and also to select a respondent that the Board determines best meets its needs.

- Costs and fees contained in the proposal will remain valid for a period of ninety (90) days after the closing date for submission of proposals and may be extended beyond that time by mutual agreement between the Board and the respondent.

- The firm selected will be expected to execute the attached AIA B101 Contract and referenced AIA A201 Contract. Submitting firms shall provide any exceptions to the contract in writing with their proposal. Failure to do so will be considered full acceptance of the contract. Exceptions to the contract will also be considered in the evaluation of proposals.

X. EXHIBITS

1. Fee Proposal Form
2. Macro Schedule
3. Building structural drawing set dated 1966
4. Building mechanical schedule from April 2001 renovation bid set.
5. Pictures of existing cooling tower dated March 2024.

EXHIBIT 1 – Fee Proposal Form

Westport Public Schools
Replacement of Cooling Towers @ Saugatuck Elementary School
RFP # 25-018

Scope of Work	Fee
Review existing conditions, documentation and operations.	$
Provide design selection for cooling tower, piping, pumping and accessories.	$
Provide design and recommendation on cooling tower support structure.	$
Provide control sequences and changes/upgrade to existing controls compatible with campus standard.	$
Provide price estimate for the installation.	$
Provide bid documentation, bid support and participate in contractor walk through.	$
Submit final report including tower design, specifications and construction documents.	$
Participate in review meetings with District Personnel and their representatives.	$
Total Fee	$
Reimbursable Expenses Not Included in Fees:	$
Print Name (Authorized Representative of Company)	Date
Signature (Authorized Representative of Company)	Date

EXHIBIT 2

Westport Public Schools
CIP Plan Project Schedule
Saugatuck Elementary School SES-003
Replacement of Cooling Towers and Structural Evaluation

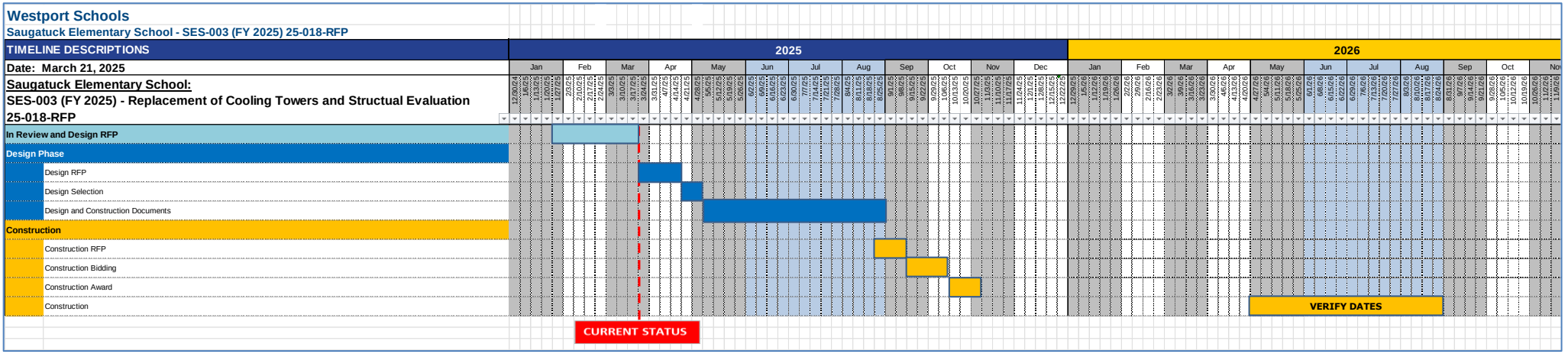
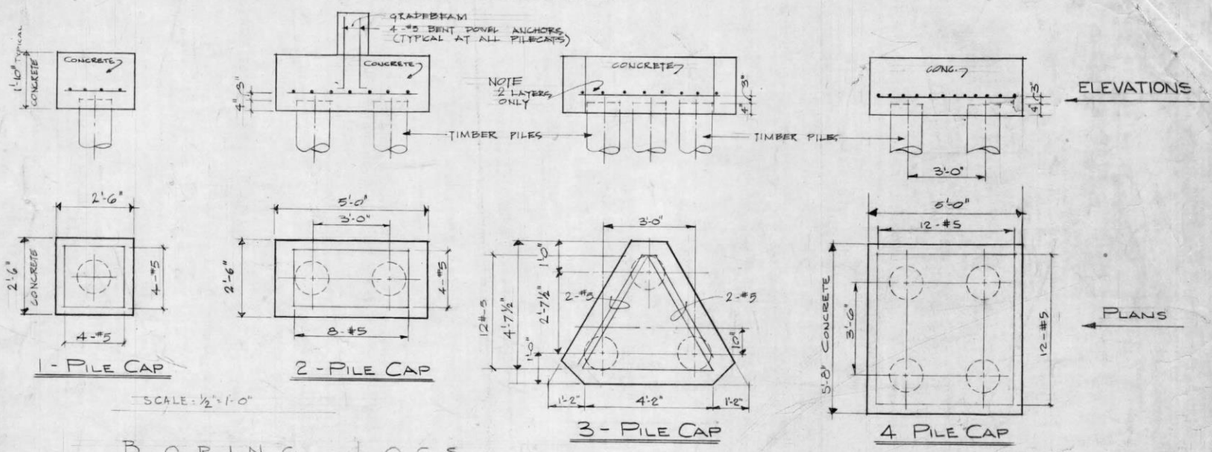
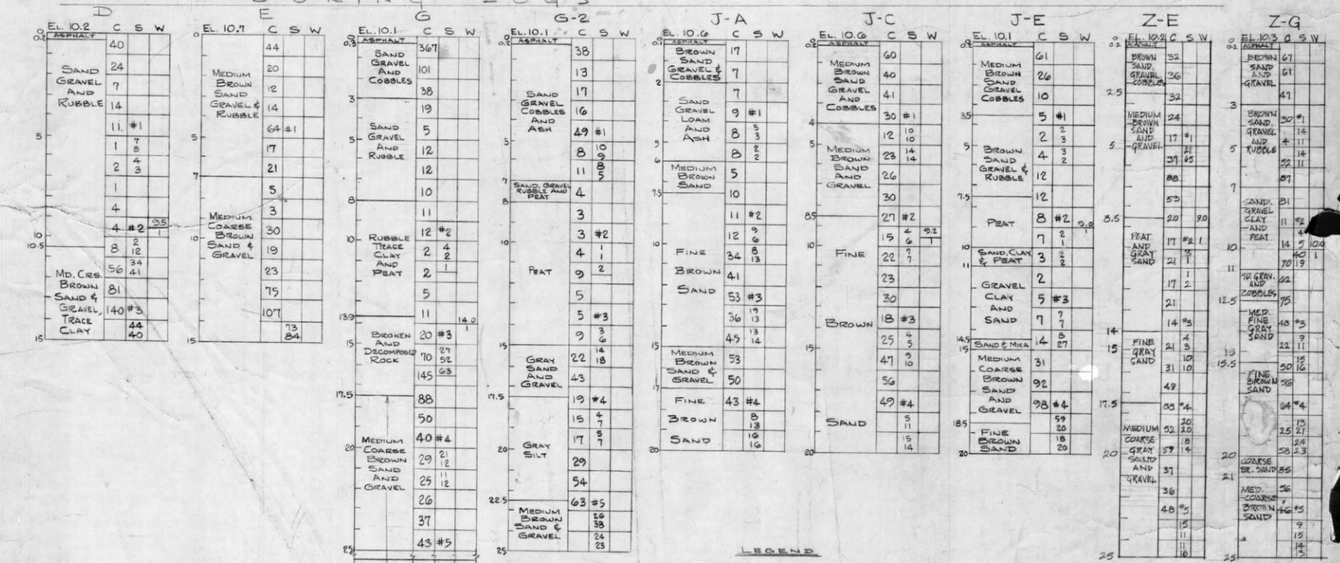


EXHIBIT 3
Saugatuck Elementary School SES-003
Replacement of Cooling Towers and Structural Evaluation

PILE CAP DETAILS

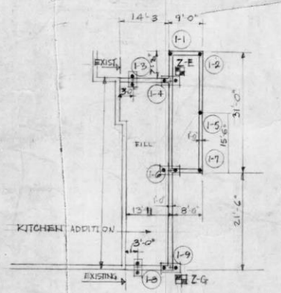


BORING LOGS

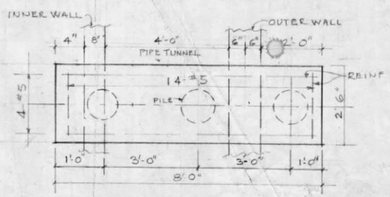


PILE SCHEDULE

COLUMN NUMBER	NR OF PILES	ELEV- TOP OF CAP	COLUMN NUMBER	NR OF PILES	ELEV- TOP OF CAP
2-1	3 PT	+8.50'	3-38	2	+8.50'
2-2	2	+12.50'	3-39	2	+12.50'
2-3	2	"	3-40	2	+12.50'
2-4	2	"	3-41	3 PT	+8.50'
2-5	2	"	3-42	3 PT	+8.50'
2-6	2	+7.50'	3-43	3 PT	+8.50'
2-7	2	+7.50'	3-44	3 PT	+8.50'
2-8	3 PT	+8.50'	3-45	2	+8.50'
2-9	2	+12.50'	3-46	2	+12.50'
2-10	2	"	3-47	3	"
2-11	4	"	3-48	3	"
2-12	2	+8.50'	3-49	2	"
2-13	2	+8.50'	3-50	2	"
2-14	3 PT*	+8.10'	3-51	2	"
2-15	3 PT	+7.94'	3-52	3	"
2-16	3 PT	+7.75'	3-53	3	"
2-17	3 PT	+7.67'	3-54	3	"
2-18	2	+7.50'	3-55	3	+7.50'
2-19	4	+7.1"	3-56	3	+ "
2-20	1	+7.50'	3-57	4	"
1-1	1	+6.93	3-58	4	"
1-2	1	"	3-59	3	"
1-3	2	"	3-60	2	"
1-4	2	"	3-68	2	+8.50'
1-5	1	"	3-71	2	+6.93
1-6	2	"	3-1-9	2	"



PLAN OF PILE FOUNDATION PART 1
SCALE ⅛"=1'-0"

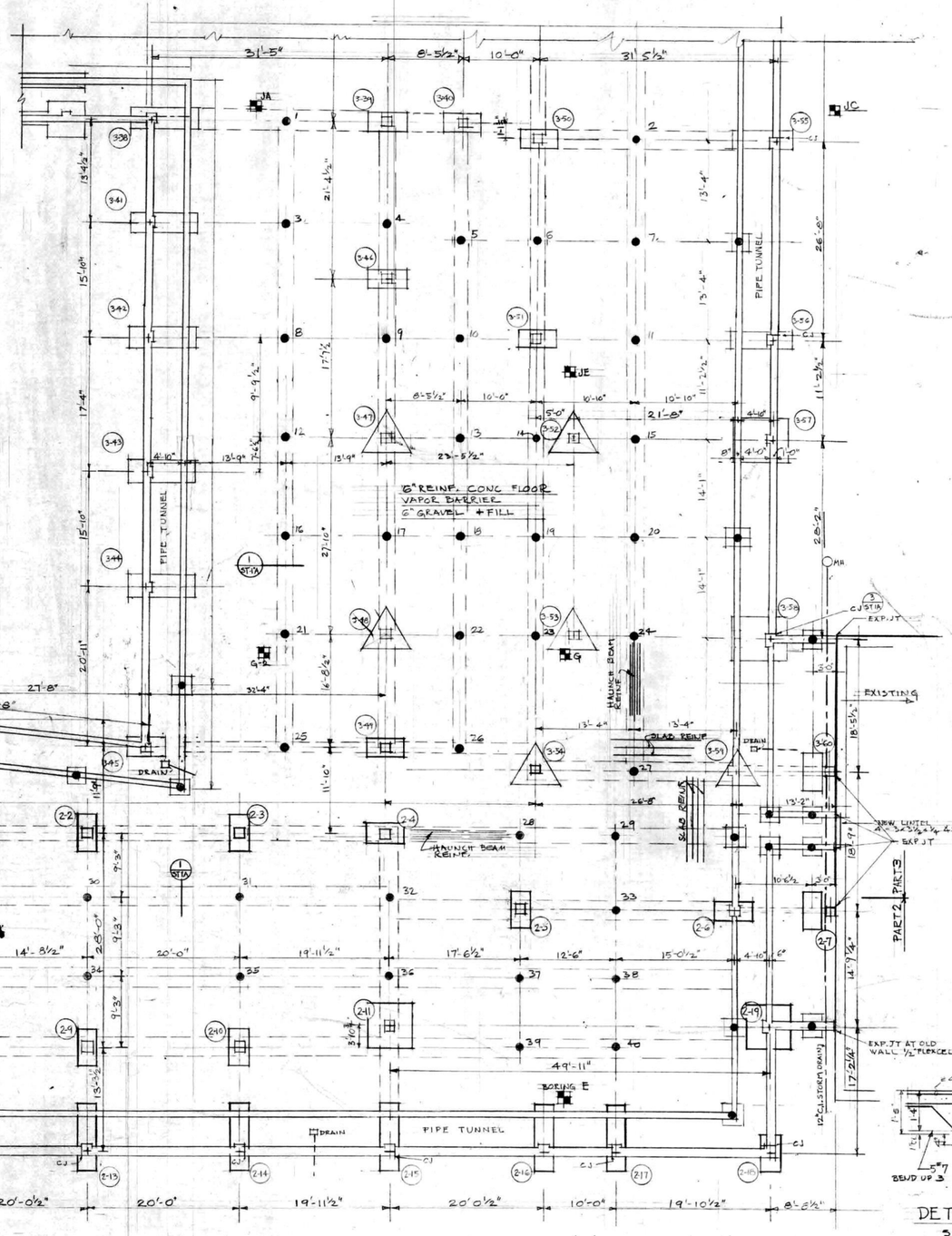


3-PILE CAP FOR PIPE TUNNELS *3PT
SCALE: ½"=1'-0"

DATUM FOR ELEV.'S = MEAN SEA LEVEL.
* 3PT = PIPE TUNNEL TYPE.
SEE PLAN FOR SINGLE PILES NOT LISTED

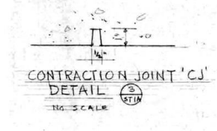
NOTE
BORING DATA TAKEN FROM BORING LOGS AS REPORTED BY HARDIMAN DRILLING CO ~ SUPPORTING DATA AVAILABLE AT THE OFFICE OF THE ARCHITECT.

PILE FOUNDATIONS PARTS 1, 2 & 3
RIVERVIEW COMPLEX
BEDFORD JR. HIGH SCHOOL
WESTPORT, CONNECTICUT
GAYDOSH AND FODOR ARCHITECTS
64 WALL STREET NORWALK, CONN.
ST-1
1641-67
MAR. 21, 1966



PLAN OF PILE FOUNDATIONS - PARTS #2 & #3

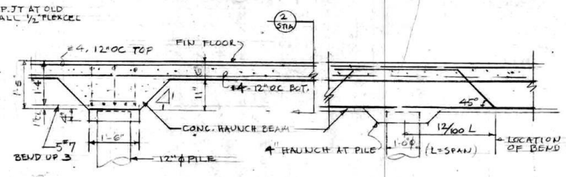
SCALE 1/8" = 1'-0"



CONTRACTION JOINT 'CJ' DETAIL (9/ST-1A)

1½" SCALE

KEY	
SYMBOL	MEANING
	SINGLE PILE WITH CAP
	2-PILE CLUSTER
	3-PILE CLUSTER
	3 PILES AT PIPE TUNNEL (3 PT)
	4 PILE CLUSTER
	ONE PILE NO CAP TOPS AT +11.66'
E	BORING - SEE ST-1 FOR LOG



DETAIL (1/ST-1A) SCALE = ½" = 1'-0"

DETAIL (2/ST-1A) SCALE ½" = 1'-0"

NOTES:-

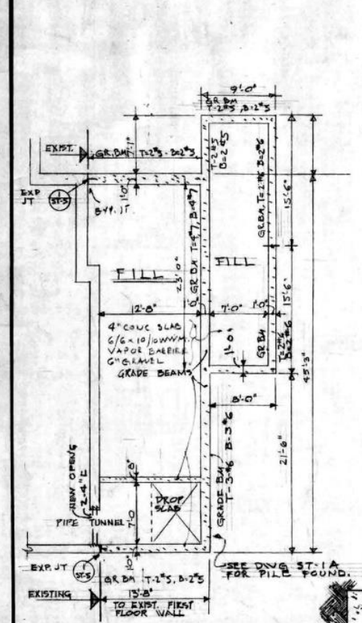
1. ALL FOUNDATION WALLS, PIPE TUNNEL WALLS PILE CAPS, FLOOR BEAMS & SLABS ON THIS DWG. REINF. CONC.
2. REFER TO DWGS. ST-2, ST-3 FOR BALANCE OF FOUNDATIONS
3. REFER TO DWG. ST-1 FOR PILE DETAILS & SCHEDULE.
4. REFER TO DWG. D-1 FOR TUNNEL DRAIN PIPING.

PILES - PLAN & DETAILS SUPPORTED CONC. FLOOR SLAB

RIVERVIEW COMPLEX
BEDFORD JR. HIGH SCHOOL
WEST PORT CONNECTICUT

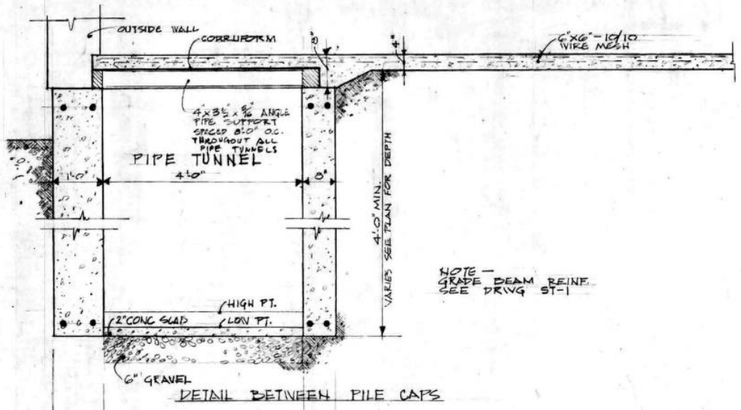
GAYDOSH AND FODOR
ARCHITECTS
64 WALL STREET NORWALK CONN

JOB NO.	
ST-1A	6910 / PC
	3/21/66 / BC



PLAN - KITCHEN ADDITION
PART 1

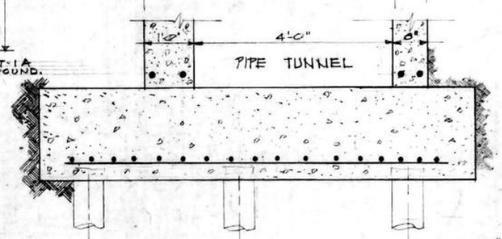
SCALE 1/8"=1'-0"



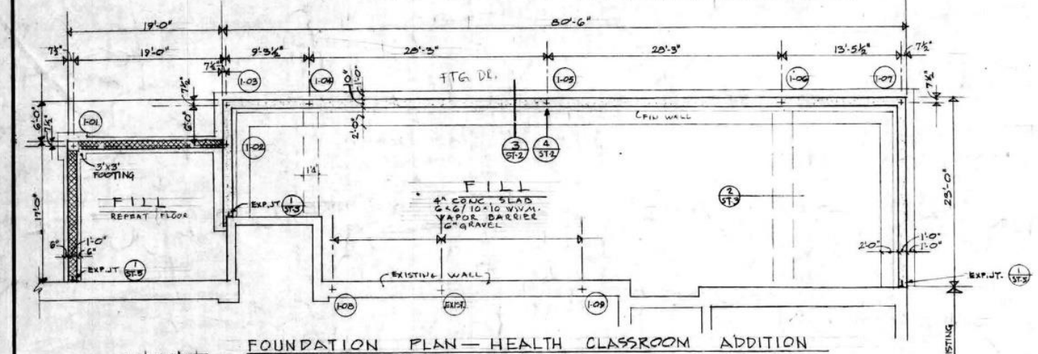
DETAIL BETWEEN PILE CAPS

SECTION - TYPICAL PIPE TUNNEL (3/ST-1)

SCALE 3/4"=1'-0"

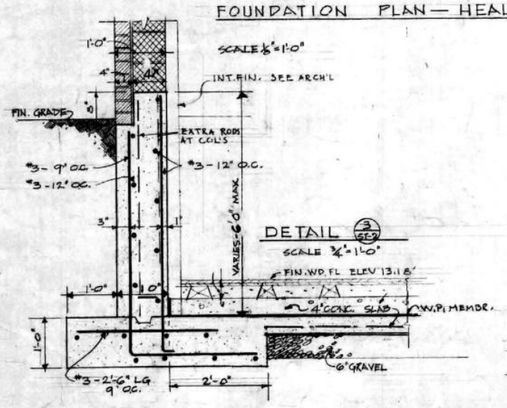


DETAIL AT PILE CAPS "3PT

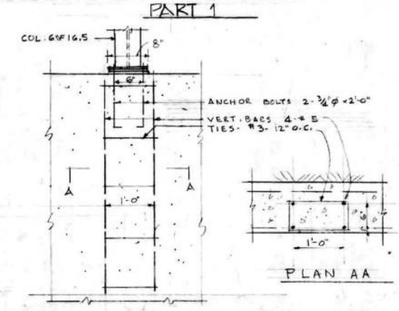


FOUNDATION PLAN — HEALTH CLASSROOM ADDITION
PART 1

SCALE 1/8"=1'-0"

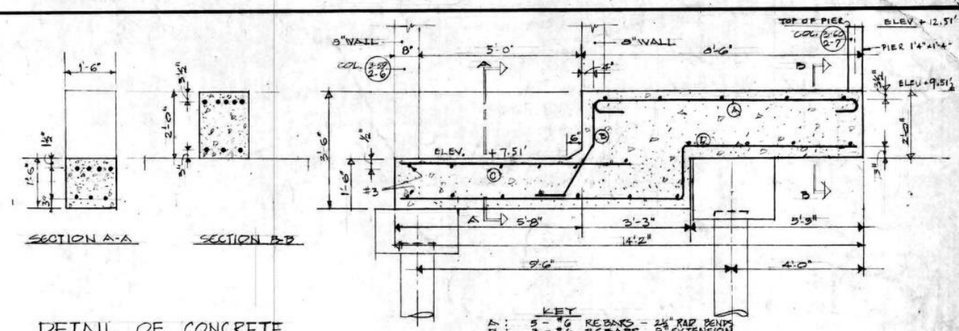


DETAIL (3/ST-2)
SCALE 3/4"=1'-0"



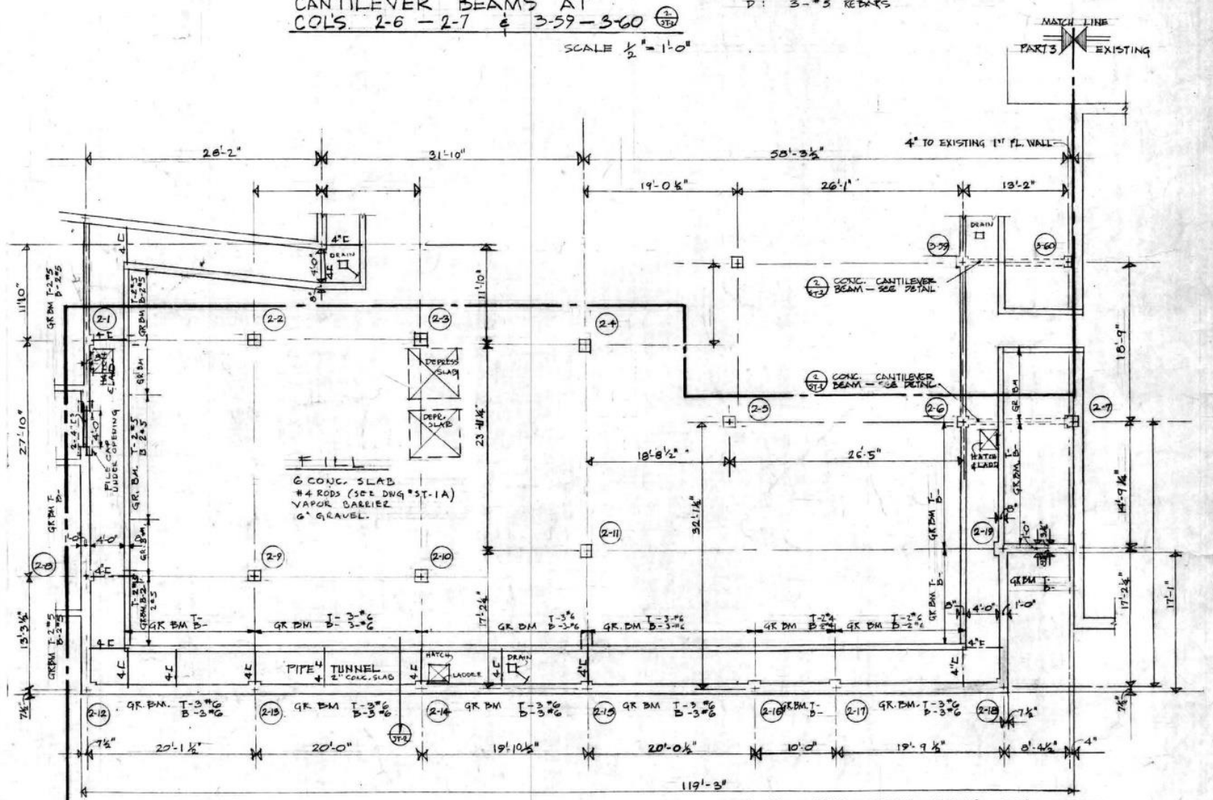
DETAIL (4/ST-2)
PIER FOR COL'S 1-1 THRU 1-7
SCALE 3/4"=1'-0"

PLAN AA



DETAIL OF CONCRETE CANTILEVER BEAMS AT COLS. 2-6 — 2-7 & 3-59 — 3-60 (4/ST-2)

SCALE 1/2"=1'-0"

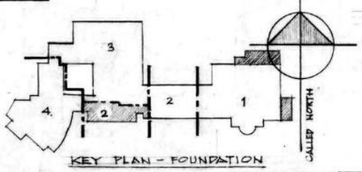


FOUNDATION PLAN — PART 2

SCALE 1/8"=1'-0"

NOTE: SEE DWG ST-1A FOR PILE FOUNDATIONS

SEE DWG BK-1 FOR DRAIN PIPING



KEY PLAN - FOUNDATION

FOUNDATION PLAN & DETAILS — PART 2 & 1

RIVERVIEW COMPLEX
BEDFORD JR. HIGH SCHOOL
WESTPORT, CONN.

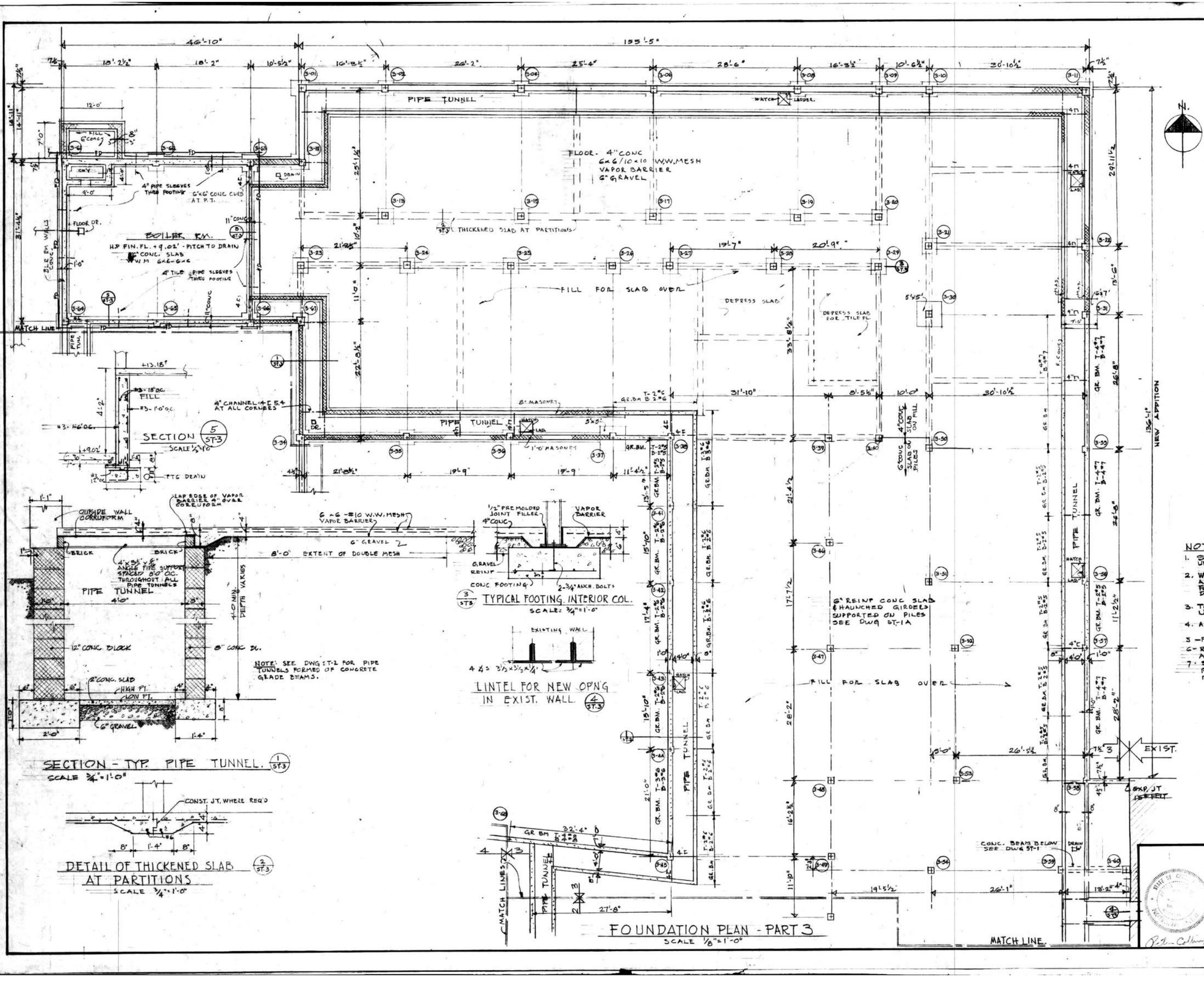
GAYDOSH AND FODOR
ARCHITECTS
64 WALL STREET NORWALK, CONN.

ST-2	6410	WB
	3-21-66	PC

63

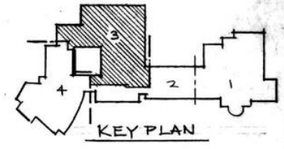
FOOTING SCHEDULE

COLUMN NUMBER	SIZE *	REINF	TOP ELEV.
3-01	3'-0" x 3'-0" x 1'-0"	5 #4 EACH WAY	+8.35
3-02	do	do	do
3-04	do	do	do
3-06	do	do	do
3-08	do	do	do
3-09	do	do	do
3-10	do	do	do
3-11	do	do	do
3-12	do	do	do
3-13 THRU 3-21	do	do	+12.50'
3-22	do	do	+8.35'
3-23 THRU 3-29	do	do	+12.50'
3-30	5'-0" x 5'-0" x 1'-0"	6 #5 EA. WAY	+12.50'
3-31	6'-0" x 7'-0" x 1'-2"	6 #6 EA. WAY	+8.35'
3-34	3'-0" x 3'-0" x 1'-0"	5 #4 EA. WAY	+8.35'
3-35	do	do	+8.35'
3-36	do	do	+8.35'
3-37	5'-0" x 5'-0" x 1'-0"	6 #5 EA. WAY	+8.35'
3-61 - 3-68	3'-0" x 3'-0" x 1'-0"	5 #4 EA. WAY	+5.69'
3-67	3'-0" x 3'-0" x 1'-0"	5 #4 EA. WAY	+8.35'
3-68	3'-0" x 3'-0" x 1'-0"	5 #4 EA. WAY	+8.35'



NOTES

1. SPREAD FOOTINGS 3'x3'x1'-0" UNLESS OTHERWISE NOTED.
2. WHERE NO SPREAD FOOTINGS ARE SHOWN, PROVIDE PILE FOUNDATIONS. REFER TO DRWG # ST-1 & ST-1A
3. THE FOLLOWING COLUMN NUMBERS ARE NOT USED: 3-03, 3-05, 3-07, 3-14, 3-16, & 3-18.
4. ALL COLUMN PIERS REINF. CONC.
5. FD = FOOTING DRAIN LINE.
6. REFER TO DWG'S ST-1 & ST-2 FOR PILE FNDN'S. AND OTHER FOUNDATION DETAILS
7. SEE SITE PLAN FOR PIPE RUNS FOR PIPE TUNNEL DRAINS. DRAINS 4" TILE @ 9'-0" C.C.



KEY PLAN

FOUN. PLAN, DETAILS & FOOTING SCHED. — PART 3

RIVERVIEW COMPLEX
BEDFORD HIGH SCHOOL
WESTPORT, CONN.

GAYDOSH AND FODOR
ARCHITECTS
64 WALL STREET NORWALK, CONN.

ST-3	6410	NO
	MAR. 21, 1966	PC

64

FOOTING SCHEDULE – PART 4			
Footing No.	Size	Reinforcement	Base Elevation
1-9	3'x3'x1'-0"	#4-7" O.C.	+7.70'
10	4'x4'x1'-0"	#4 - 7" O.C.	+7.70'
11	5'x5'x1'-2"	#5 - 7" O.C.	+6.74
12-13	4'x4'x1'	#4 - 5" O.C.	+6.74'
14-16	3'x3'x1'	#4 - 7" O.C.	+7.90'
17-20	4'x4'x1'	#4 - 5" O.C.	+8.60'
21-30	3'x3'x1'	#4 - 7" O.C.	+7.40
31-32	4'x4'x1'	#4 - 5" O.C.	+8.60
33-34	3'x3'x1'	#4 - 7" O.C.	+8.60'
35	5'x5'x1'-2"	#5 - 7" O.C.	+7.86'
41-47	3'x3'x1'	#4 - 7" O.C.	+6.74
51	4'x4'x1'	#4 - 5" O.C.	+6.74
52-53	3'x3'x1'	#4 - 7" O.C.	+6.74
54	4'x4'x1'	#4 - 5" O.C.	+8.60
55	3'x3'x1'	#4 - 7" O.C.	+8.60'
36	5'x5'x1'-2	#4 - 7" O.C.	+6.74
37-38	3'x3'x1'0"	#4 - 7" O.C.	+8.10'
39	3'x3'x1'-0"	#4 - 7" O.C.	+6.74
40	3'x3'x1'-0"	#4 - 7" O.C.	+8.60'
42	3'x3'x1'-0"	#4 - 7" O.C.	+8.60'
47-50	3'x3'x1'	#4 - 7" O.C.	+6.74
57-58	4'x4'x1'	#4 - 5" O.C.	+6.74'

FOUNDATION PLAN - PART 4
SHOP AREA
SCALE: 1/8"=1'-0"

FOUNDATION PLAN #4
AUDITORIUM
SCALE 1/8"=1'-0"

DETAIL (5/S1-4) UNDER STAGE
SCALE 1/4"=1'-0"

SECTION (5/ST-4)
SCALE 1/2"=1'-0"

WALL DETAIL (4/ST-4)
SCALE 1/2"=1'-0"

TYPICAL NOSING

DETAIL (1/ST-4) CONCRETE STAIR
SCALE 1/2"=1'-0"

COMBINED SECTIONS (6/ST-4) (7/ST-4)
SCALE 1/2"=1'-0"

DETAIL (2/S1-4)
SCALE 1/2"=1'-0"

PARTITION SLOT DETAIL (3/S1-4)
SCALE 3/4"=1'-0"

KEY PLAN - FOUNDATIONS

NOTE: "F.D." INDICATES FOOTING DRAIN
SEE DWG. SK-1 FOR PIPING CONNECTIONS TO PIPE TUNNEL DRAINS & FOOTING DRAINS
PIPE 4" T.C. TILE BY G.C.

SEE DWG ST-1A FOR PILES

Peter Collins

FOUND. PLAN & FOOTING SCHED. — PART 4

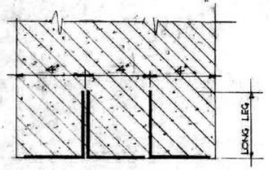
RIVERVIEW COMPLEX
BEDFORD JR. HIGH SCHOOL
WESTPORT CONN.

GAYDOSH AND FODOR
ARCHITECTS
64 WALL STREET NORWALK, CONN.

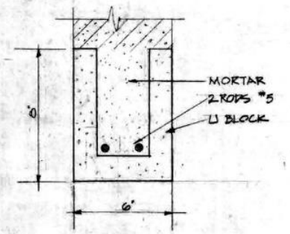
ST-4 | 6410 | WB
MAR 21, 1966 | PC

LINTEL SCHEDULE

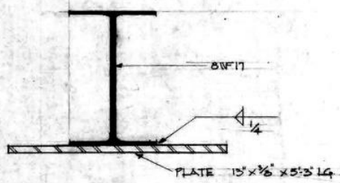
LINTEL	SIZE	SPAN	DETAIL
L-1	3#'s 4"x3½"x⅜"	6'-0"	A
L-2	3#'s 4"x3½"x⅜"	6'-6"	A
L-3	3#'s 5"x3½"x⅜"	6'-6"	A
L-4	3#'s 4"x3½"x⅜"	6'-0"	A
L-5	3#'s 4"x3½"x⅜"	6'-0"	A
L-6	PRECAST CONC. 6"x8"	5'-0"	B
L-7	3#'s 4"x3½"x⅜"	6'-4"	A
L-8	3#'s 3½"x3½"x½"	3'-0"	A
L-9	3#'s 3½"x3½"x½"	3'-0"	A
L-10	3#'s 4"x3½"x½"	4'-0"	A
L-11	8WF17 + PL 15"x⅜"x5'-3"	5'-3"	C
L-12	3#'s 4"x3½"x⅜"	6'-0"	A
L-13	3#'s 4"x3½"x⅜"	5'-6"	A
L-14	3#'s 4"x3½"x⅜"	7'-0"	A
L-15	3#'s 4"x3½"x⅜"	7'-0"	A
L-16	3#'s 3"x3½"x⅜"	4'-2"	SECTIONS 2-3
L-17	3#'s 3"x3½"x5/16"	7'-5"	" " "
L-18	3#'s 3"x3½"x5/16"	8'-10"	" " "
L-19	3#'s 3"x3½"x5/16"	6'-0"	" " "



DETAIL A

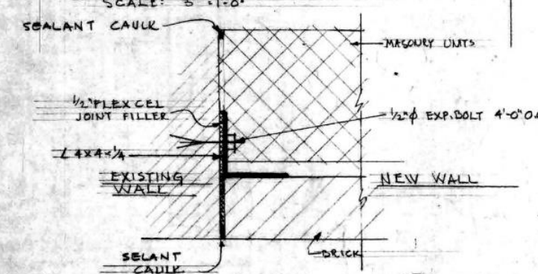


DETAIL B

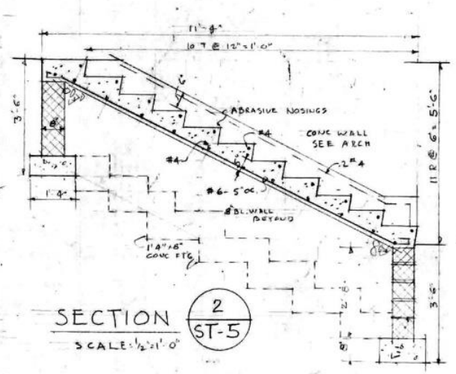


DETAIL C

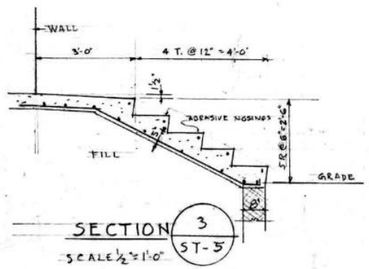
LINTEL DETAILS
SCALE: 3" = 1'-0"



PLAN AT EXPANSION JOINT 1/ST-5
3" = 1'-0"

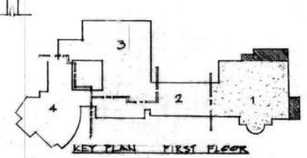


SECTION 2/ST-5
SCALE: ½"=1'-0"



SECTION 3/ST-5
SCALE: ½"=1'-0"

FIRST FLOOR PLAN PART 1
SCALE ⅛"=1'-0"



KEY PLAN FIRST FLOOR

FIRST FLOOR PLAN
PART 1 SCALE: ⅛"=1'-0"

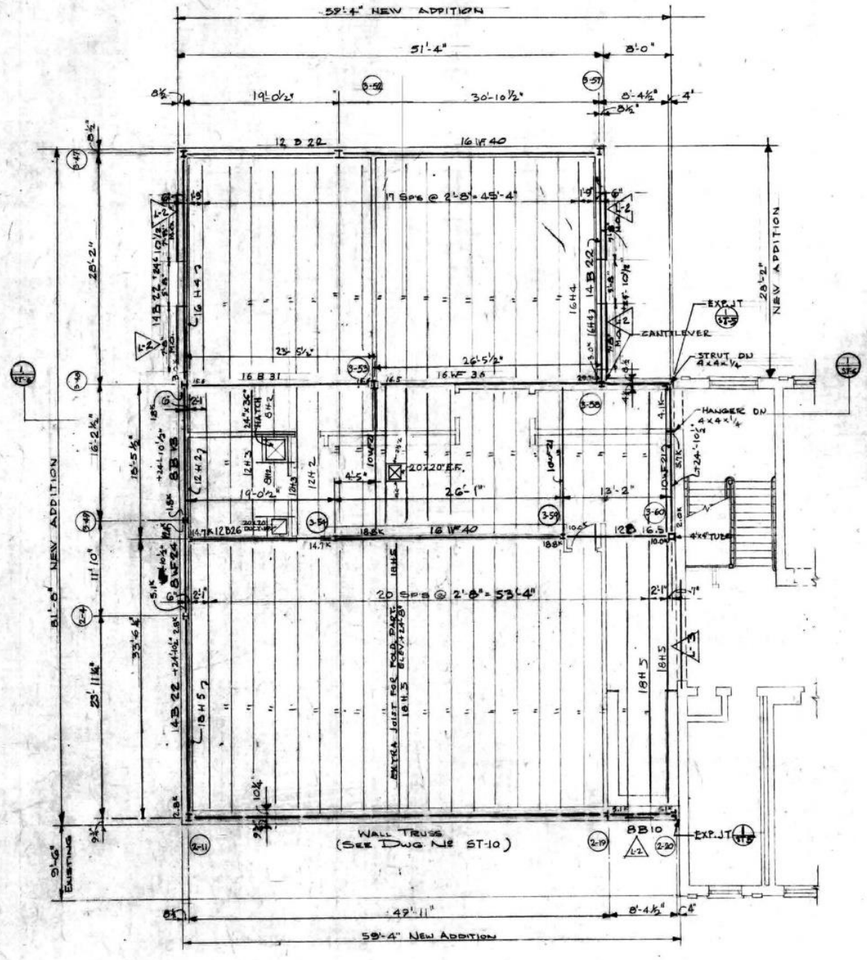
RIVERVIEW COMPLEX
BEDFORD JR. HIGH SCHOOL
WESTPORT, CONNECTICUT

GAYDOSH AND FODOR
ARCHITECTS
64 WALL STREET NORWALK, CONN.

ST-5 | 6410 | MAR. 1, 1966 | WD | gc

LINTEL SCHEDULE

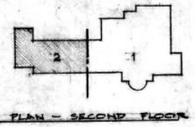
LINTEL	SIZE	SPAN	DETAIL
L-1	3L3-3X3½X5/16"	7'-0"	DET (DWG #7)
L-2	3L3-3"X3"X5/16"	7'-8"	DET (DWG #7)
L-3	3L3-3X3½X¼"	6'-9"	" "



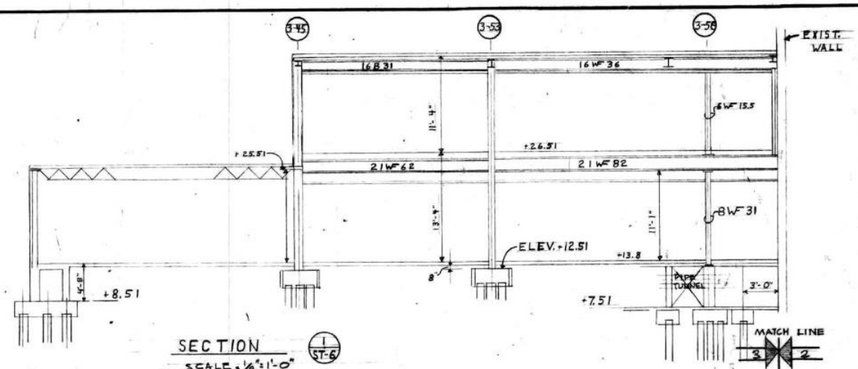
ROOF FRAMING PLAN — PARTS NO. 2 & 3

SCALE: ⅛" = 1'-0"

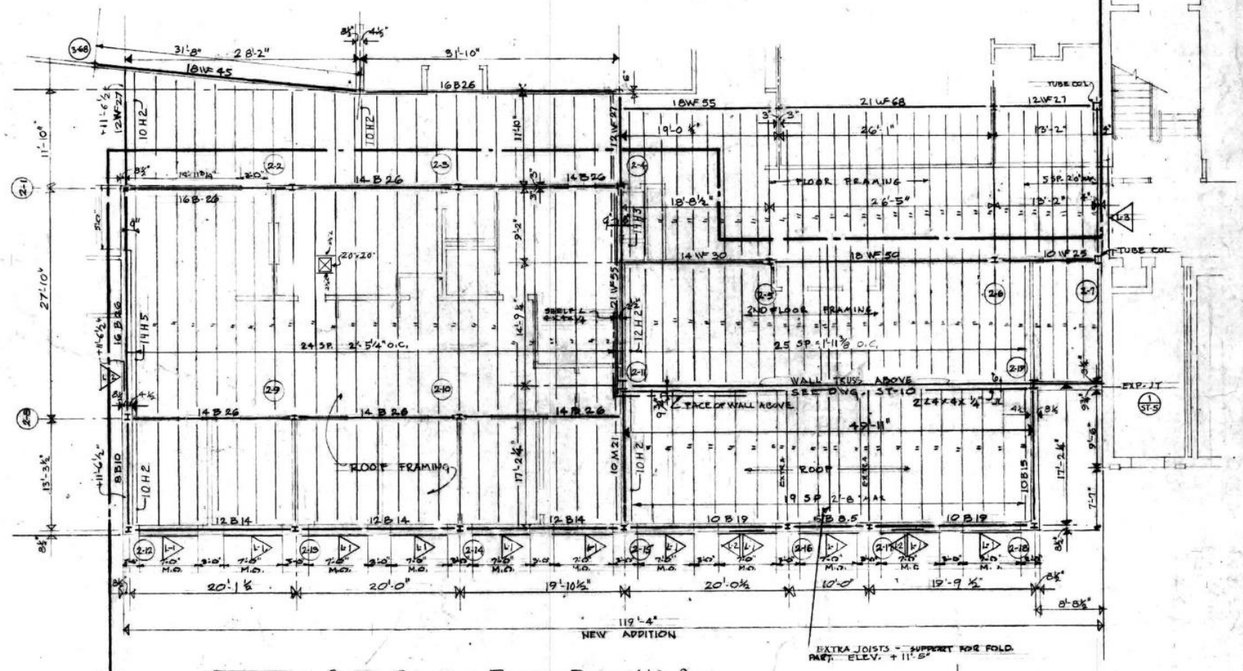
NOTE: ELEV. TOP OF JOISTS = +24'-10½" ABOVE FIN. 1ST FLOOR
TOP OF GIRDERS = +24'-8" ABOVE " " " UNLESS NOTED



KEY PLAN — SECOND FLOOR



SECTION — SCALE: ⅛"=1'-0"

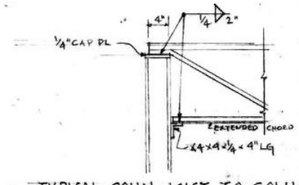


ROOF & 2ND FLOOR PLAN - PART Nº 2

SCALE ⅛"=1'-0"

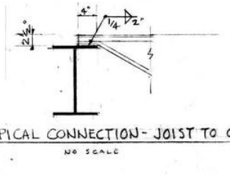
TOP OF ROOF JOISTS + 11'-6½" ABOVE FIN. FL.
TOP OF GIRDERS + 11'-4" ABOVE FIN. FL. UNLESS NOTED
TOP OF FLOOR JOISTS + 13'-0½" ABOVE FIN. FL.
TOP OF FLOOR GIRDERS + 12'-10" ABOVE FIN. FL. UNLESS NOTED.

MATCH LINE



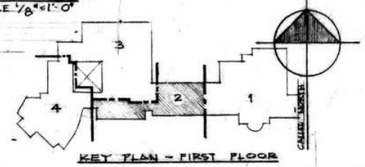
TYPICAL CONN. JOIST TO COLUMN

NO SCALE



TYPICAL CONNECTION - JOIST TO GIRDER

NO SCALE



KEY PLAN — FIRST FLOOR

SCALE ⅛"=1'-0"

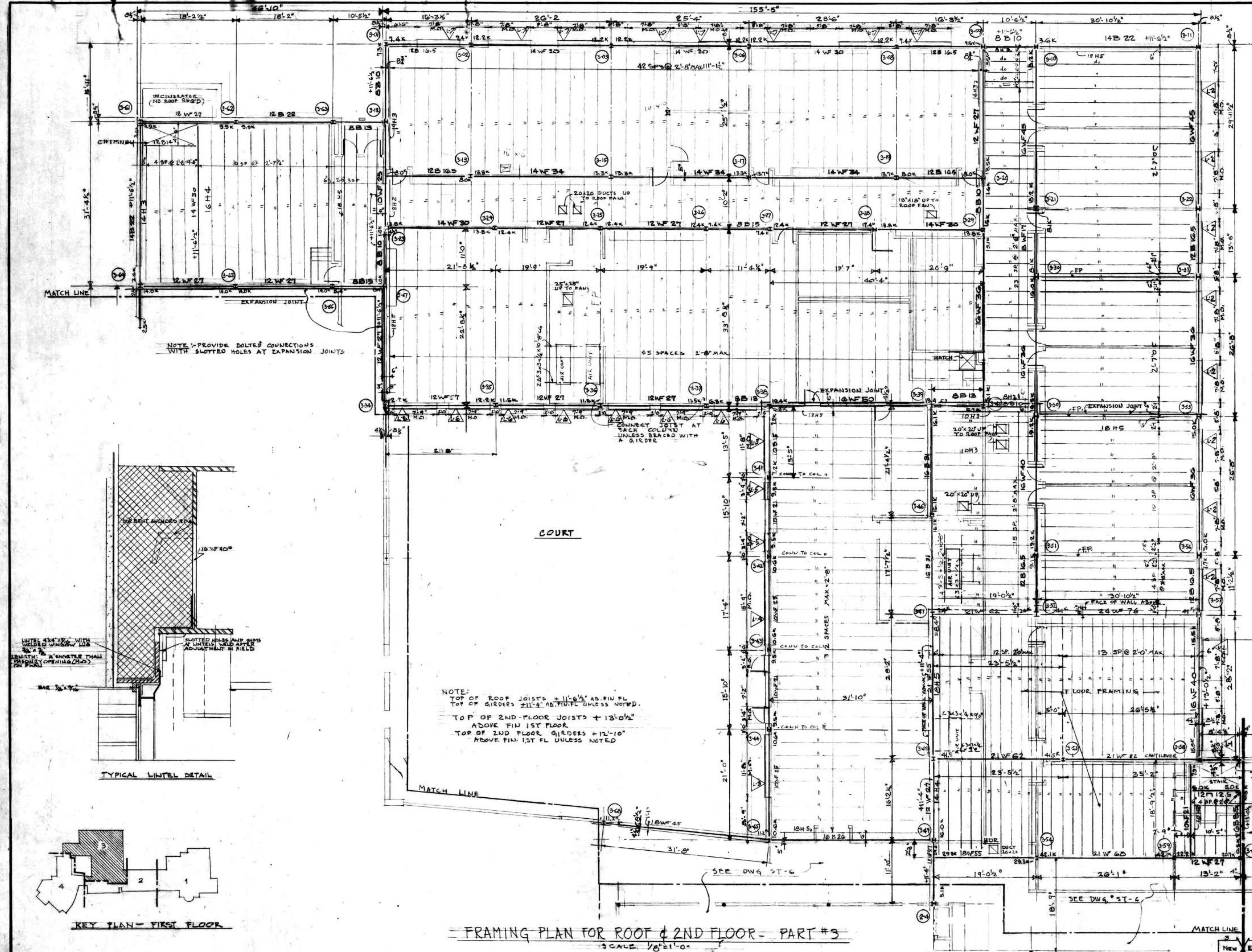
Peter Collins

ROOF FRAMING PLAN 2ND FL. PARTS 2 & 3.
ROOF & 2ND FLOOR FRAMING — PART Nº 2

RIVERVIEW COMPLEX
BEDFORD JR. HIGH SCHOOL
WESTPORT, CONN.

GAYDOSH AND FODOR ARCHITECTS
64 WALL STREET NORWALK, CONN

ST-6	64-10	WB
	3-21 66	PC



LINTEL SCHEDULE

LINTEL	SIZE	SPAN	DETAIL
L-1	3L5 - 5"×3½"×5/16"	7'-5"	DET(DWG ST-1)
L-2	3L5 - 5"×3½"×5/16	7'-5"	" " "
L-3	3L5 - 5"×3½"×5/16"	11'-5"	" " "
L-4	3L5 - 4"×3½"×3/8"	15'-4"	" " "
L-5	3L5 - 5"×3½"×5/16"	3'-4"	" " "
L-6	3L5 - 5"×3½"×5/16"	7'-4"	" " "
L-7	3L5 5"×3½"×5/16"	7'-5"	" " "

FRAMING PLAN FOR ROOF & 2ND FLOOR - PART #3

SCALE 1/8"=1'-0"

Peter Collins

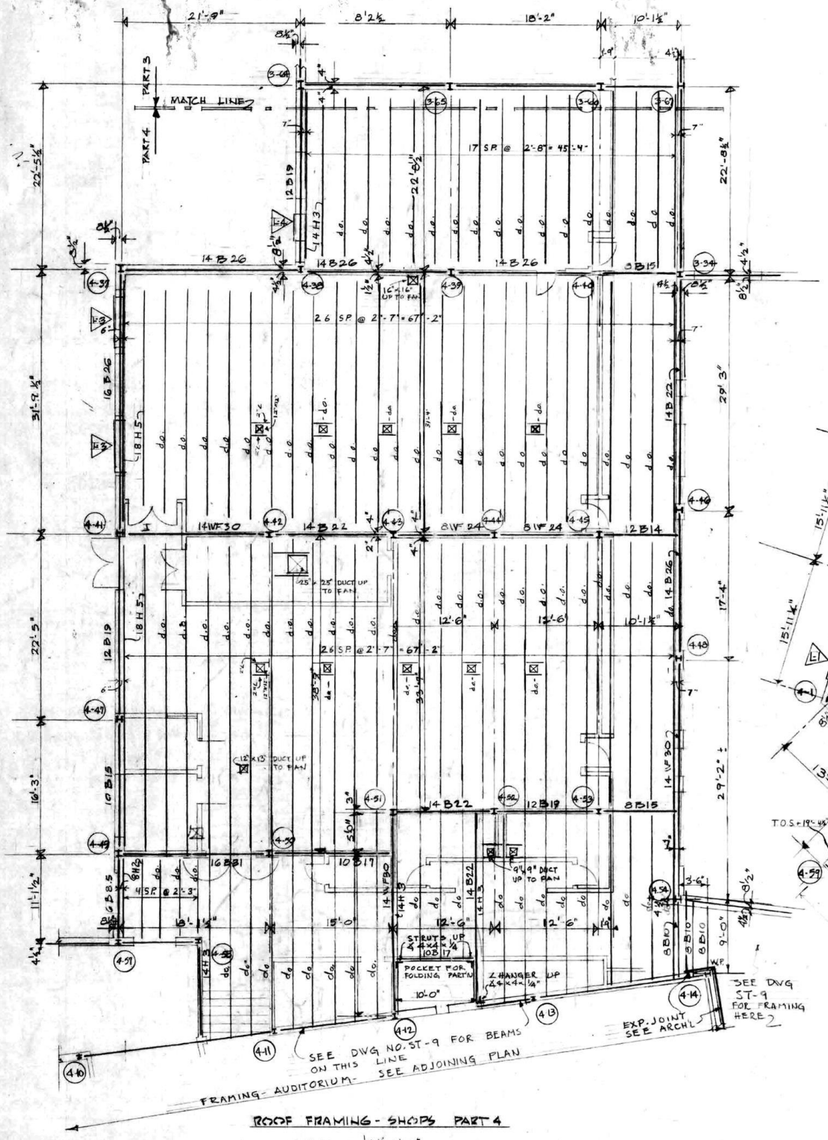
FRAMING FOR ROOF & 2ND FLOOR - PART 3.

RIVERVIEW COMPLEX
BEDFORD JR. HIGH SCHOOL
WESTPORT, CONN.

GAYDOSH AND FODOR
ARCHITECTS
64 WALL STREET NORWALK, CONN.

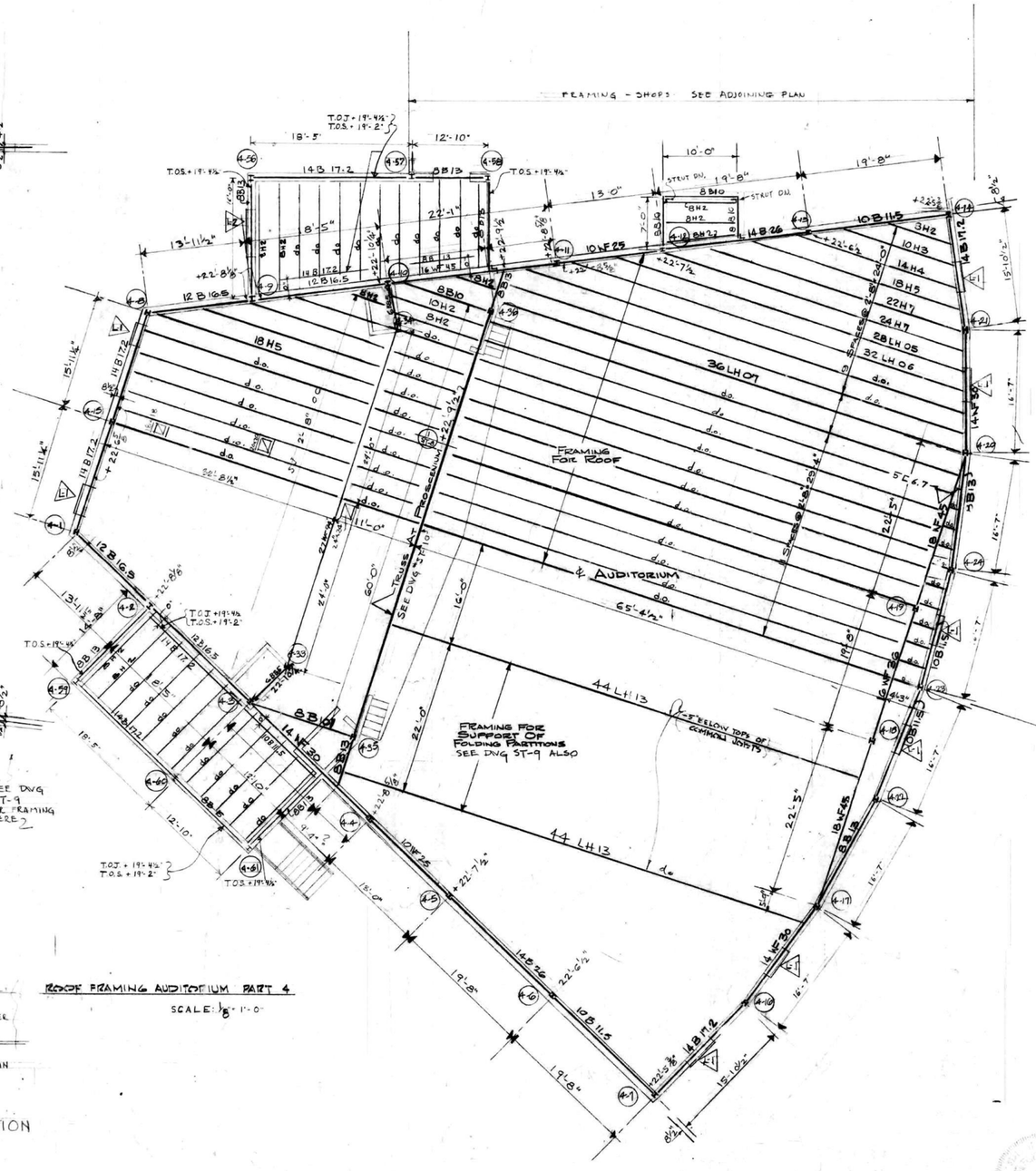
ST-7	6410	NB
	MAR. 21, 1966	PC

68



ROOF FRAMING - SHOPS PART 4

SCALE 1/8" = 1'-0"

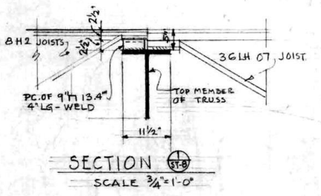


ROOF FRAMING AUDITORIUM PART 4

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

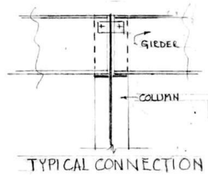
LINTEL SCHEDULE			
LINTEL	SIZE	SPAN	DETAIL
L-1	3½ 3"x3½"x 5/16"	4'-8"	DET.(1/4"=1")
L-2	3½ 3"x3½"x 5/16"	6'-6"	" " "
L-3	3½ 3"x3½"x 5/16"	6'-0"	" " "
L-4	3½ 3"x3½"x 5/16"	3'-3"	" " "

NOTE:
AUDITORIUM ROOF & PARTITION FRAMING SYMMETRICAL ABOUT CENTER LINE UNLESS NOTED.



SECTION ST-8

SCALE 3/4" = 1'-0"



TYPICAL CONNECTION

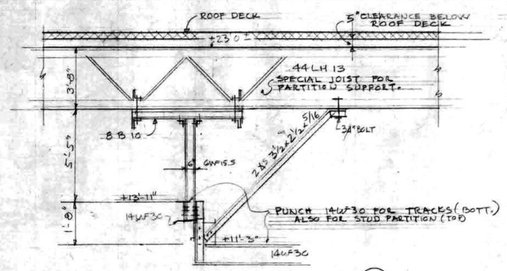
ROOF FRAMING & DETAILS
AUDITORIUM PART #4

RIVERVIEW COMPLEX
BEDFORD JR. HIGH SCHOOL
WESTPORT, CONNECTICUT

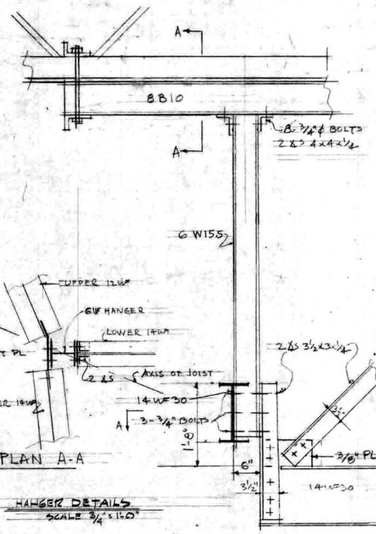
GAYDOSH AND FODOR
ARCHITECTS
64 WALL STREET NORWALK, CONN.

ST-8 | 6410 | WB & BR
MAR. 21, 1966 | PC

Peter Collins

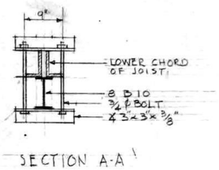


ELEVATION OF PARTITION SUPPORTS (1/ST9)
SCALE 1/2" = 1'-0"

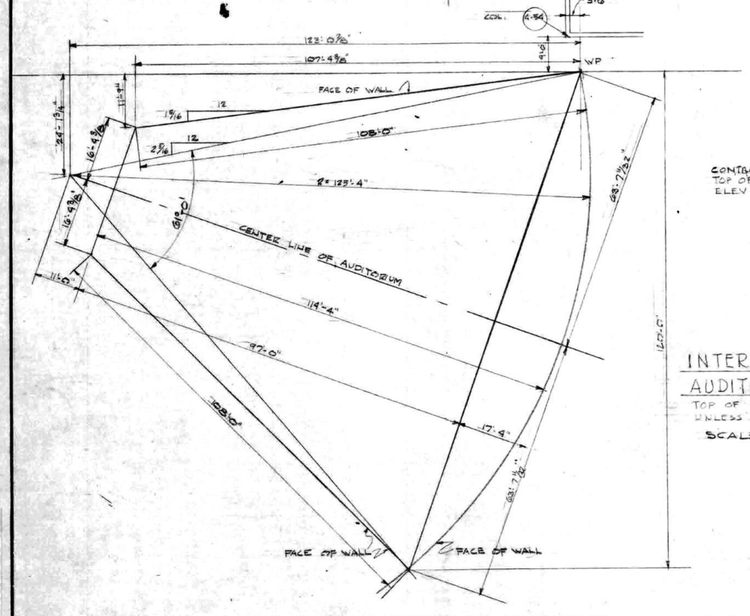


PLAN A-A

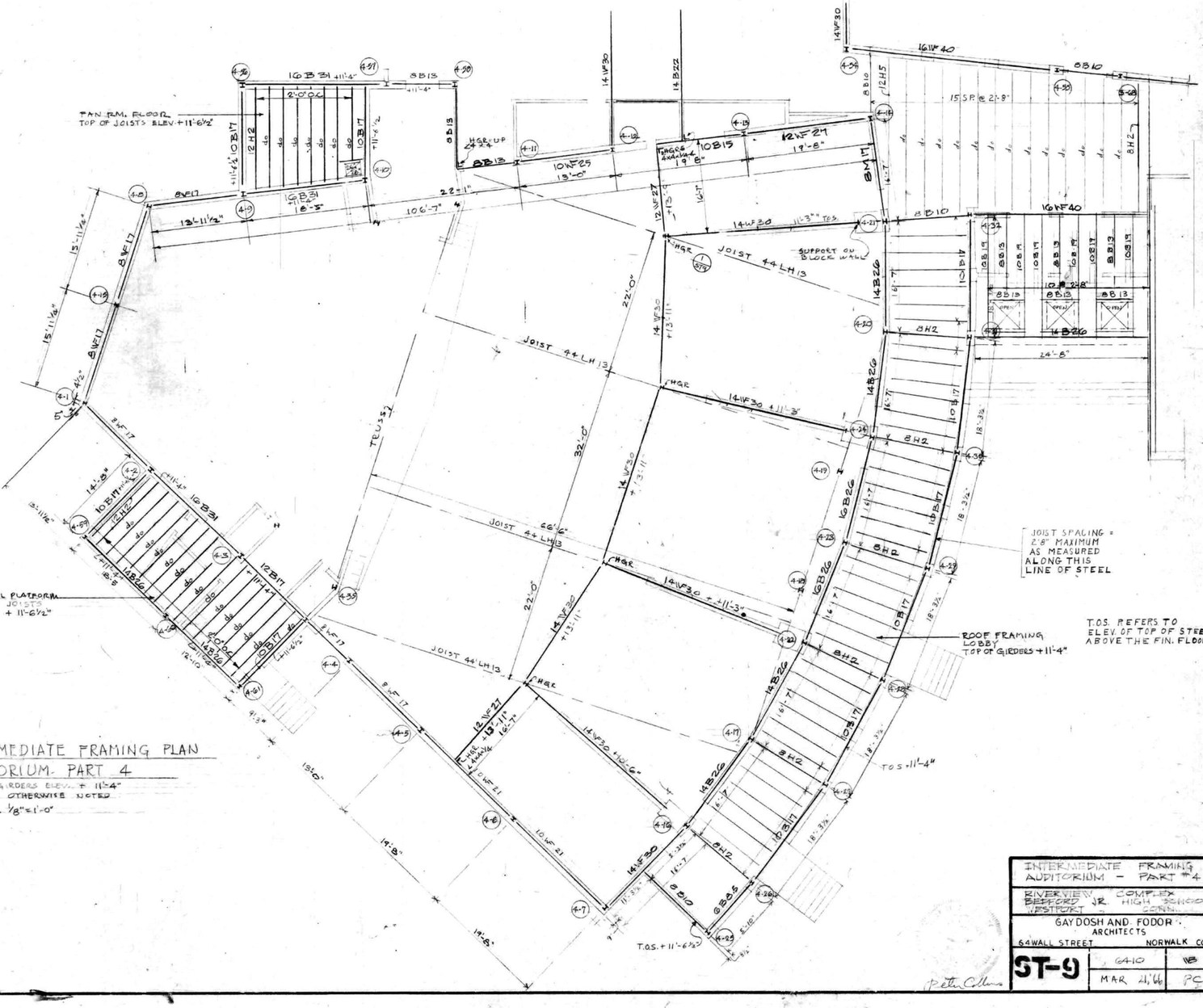
HANGER DETAILS
SCALE 3/4" = 1'-0"



SECTION A-A



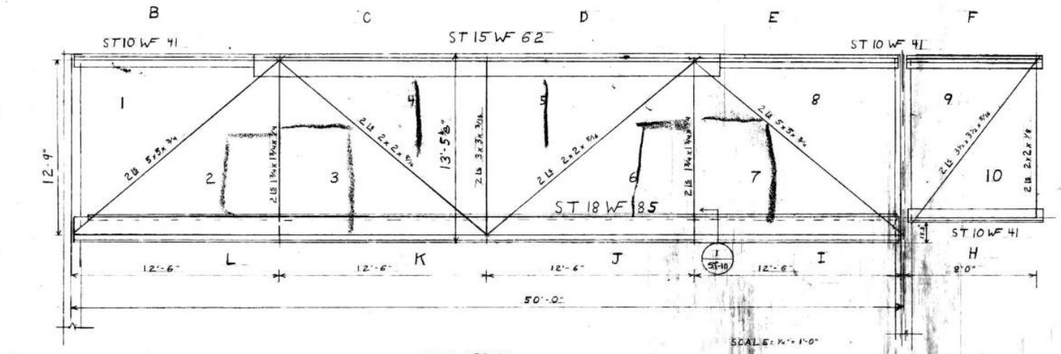
LAYOUT OF BASIC DIMENSIONS OF AUDITORIUM
SCALE: 1/16" = 1'-0"



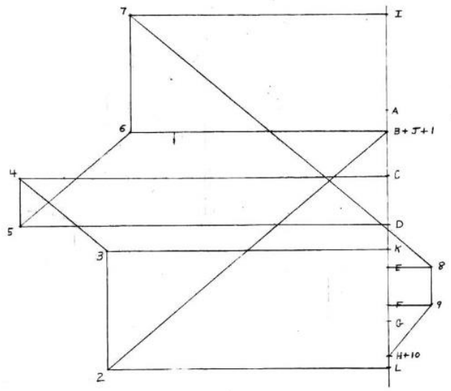
INTERMEDIATE FRAMING PLAN
AUDITORIUM - PART 4
TOP OF GIRDERS ELEV. + 11'-4"
UNLESS OTHERWISE NOTED
SCALE 1/8" = 1'-0"

INTERMEDIATE FRAMING AUDITORIUM - PART #4		
RIVERVIEW COMPLEX BEDFORD JR. HIGH SCHOOL WESTPORT CONN.		
GAYDOSH AND FODOR ARCHITECTS 64 WALL STREET NORWALK CONN		
ST-9	6410	VB
	MAR 21, '66	PC

Peter Ellis

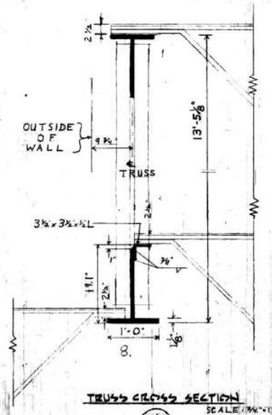


WALL TRUSS



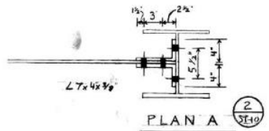
STRESS DIAGRAM

SCALE: 1"=20K

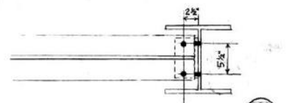


TRUSS CROSS SECTION

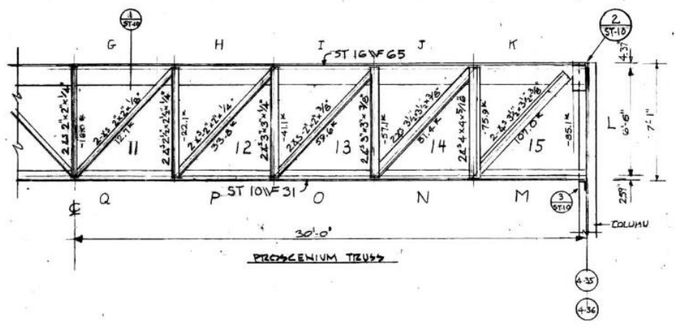
SCALE: ¾"=1'-0"



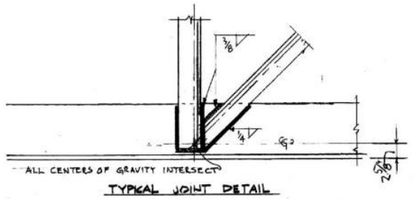
PLAN A



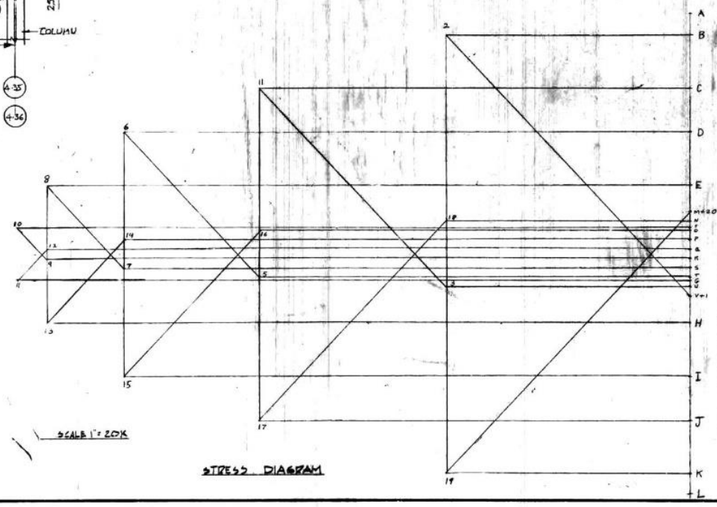
PLAN B



PROSCENIUM TRUSS

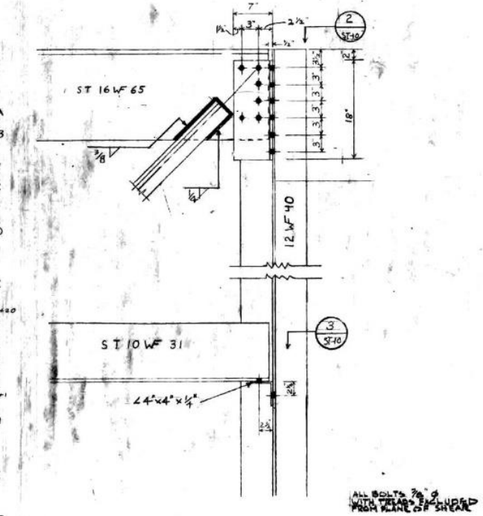


TYPICAL JOINT DETAIL



SCALE 1"=20K

STRESS DIAGRAM



ALL BOLTS ⅞" ø WITH THREADS EXCLUDED FROM PLANE OF SHEAR

DETAIL
CONNECTIONS TO COLUMNS
PROSCENIUM TRUSS

TRUSS DESIGN DRAWINGS
STRESS DIAGRAMS

RIVERVIEW COMPLEX
BEDFORD JR. HIGH SCHOOL
WESTPORT, CONN.

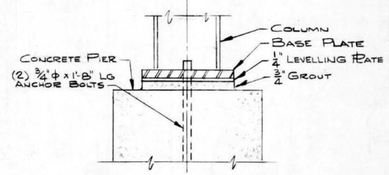
GAYDOSH AND FODOR
ARCHITECTS
64 WALL STREET NORWALK, CONN.

ST-10 | 6410 | JM | MAR. 21, 1966 | PC

COLUMN SCHEDULE

Column Number	2-4	2-11	2-19	3-47	3-48	3-49	3-52 3-53	3-54	3-57	3-58	3-59	3-60
H.P. Roof Slab	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"
2nd Floor	W 20	W 40	W 31	W 28	W 31	W 20	W 31	W 24	W 28	1'-9" 6WF15.5	W 28	ST. TUBE 4"x4"x5/16"
1st Floor	8'-7"	8'-7"	8'-7"	8'-7"	8'-7"	8'-7"	8'-7"	8'-7"	8'-7"	8WF31 8'-7"	8'-7"	8'-7"
Base Plate	7"x7"x3/4"	11"x11"x3/8"	11"x11"x3/8"	9"x9"x3/4"	11"x11"x3/8"	7"x8"x3/4"	11"x11"x3/8"	11"x11"x3/8"	9"x9"x3/4"	11"x11"x3/8"	11"x11"x3/8"	7"x7"x3/4"
Pier Size		2'-0"x2'-0"	2'-0"x2'-0"	2'-0"x2'-0"	2'-0"x2'-0"					2'-0"x2'-0"	2'-0"x2'-0"	

NOTE PIERS 16"x16" IN PLAN UNLESS NOTED OTHERWISE. PIER AREA AT LEAST 3x B.P. AREA



COLUMN BASE ℄ DETAIL

Column Number	1-1 THRU 1-7	2-1	2-2 THRU 2-3	2-5 2-6 2-8 2-9 2-10	2-12 THRU 2-18	2-20	2-7	3-1 3-2 3-4 3-5 3-8	3-9 THRU 3-12	3-13 3-14 3-15 3-16 3-17 3-20 3-21	3-22	3-23 THRU 3-30	3-31	3-34	3-35 3-36 3-37	3-38	3-39 3-40	3-41 THRU 3-44	3-45 3-46	3-50 3-51	3-55 3-56	3-61	3-62 3-63	3-64	3-65 3-66 3-67	3-68
H.P. Roof Slab	5"	5"	5"	5"	5"		5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"
1st Fl.	11'-9" 5'-0" 6WF15.5	8' 4"x4"x3/8" CONC. FILLED L ALL'Y COL.	8'-7" 6WF15.5	8'-7" 6WF15.5	8'-7" 6WF15.5	SEE DETAIL OF TRUSS ~ DWG S1-10	8'-7" ST. TUBE 4"x4"x5/16"	8'-7" 6WF15.5	8'-7" 8WF17	8'-7" 6WF20	8'-7" 6WF15.5	8'-7" 6WF20	8'-7" 6WF15.5	8'-7" 6WF20	8'-7" 6WF15.5	8'-7" 6WF20	8'-7" 6WF20	8'-7" 6WF15.5	8'-7" 6WF20	8'-7" 6WF20	8'-7" 6WF15.5	8'-7" 8WF17	8'-7" 6WF15.5	8'-7" 6WF15.5	8'-7" 6WF15.5	8'-7" 6WF20
Base Plate	6"x8"x3/4"	9"x9"x3/4"	7"x7"x3/4"	7"x7"x3/4"	7"x7"x3/4"	—	7"x7"x3/4"	7"x7"x3/4"	9"x9"x3/4"	7"x7"x3/4"	7"x7"x3/4"	7"x7"x3/4"	7"x7"x3/4"	7"x7"x3/4"	7"x7"x3/4"	7"x7"x3/4"	7"x7"x3/4"	7"x7"x3/4"	7"x7"x3/4"	7"x7"x3/4"	7"x7"x3/4"	7"x7"x3/4"	7"x7"x3/4"	7"x7"x3/4"	7"x7"x3/4"	

Column Number	4-1 4-8	4-2 4-9	4-3	4-4	4-5	4-6	4-7	4-15	4-16 4-21	4-17 4-20	4-18 4-19	4-22 4-24	4-23	4-25	4-26 THRU 4-30	4-31	4-32	4-33 4-34	4-35 4-36	4-37 THRU 4-55	4-56 4-58	4-57	4-59 4-61	4-60	4-10	4-11	4-12	4-13	4-14
H.P. Roof Slab																													
1st Fl.	22'-6 5/8" 8'-7" 8WF20	22'-8 1/8" 8WF20	22'-10 1/4" 8WF20	22'-8 5/8" 8WF20	22'-7 1/2" 8WF20	22'-6 1/2" 8WF20	22'-5 3/8" 8WF20	22'-6 5/8" 8WF20	22'-4 1/2" 8WF20	22'-3 3/4" 8WF24	22'-1 1/4" 8WF20	22'-0 7/8" 8WF20	22'-0 3/4" 8WF20	11'-4" 6WF15.5	11'-4" 6WF16.5	11'-4" 6WF16.5	11'-4" 6WF16.5	22'-10 5/8" 8WF24	22'-9 1/4" 8WF31	11'-4" 6WF15.5	19'-2" 8WF24	19'-2" 8WF24	19'-2" 8WF20	19'-2" 8WF20	22'-10 1/4" 8WF24	22'-8 3/8" 8WF24	22'-7 1/2" 8WF24	22'-6 1/2" 8WF20	22'-5 3/8" 8WF24
Base Plate	9"x7"x3/4"	9"x7"x3/4"	9"x8"x3/4"	9"x7"x3/4"	9"x7"x3/4"	9"x7"x3/4"	9"x7"x3/4"	9"x7"x3/4"	9"x7"x3/4"	9"x8"x3/4"	9"x7"x3/4"	9"x7"x3/4"	9"x7"x3/4"	7"x7"x3/4"	7"x7"x3/4"	7"x7"x3/4"	7"x7"x3/4"	9"x8"x3/4"	9"x9"x3/4"	7"x7"x3/4"					9"x8"x3/4"	9"x8"x3/4"	9"x8"x3/4"	9"x7"x3/4"	9"x8"x3/4"

Peter Collins

COLUMN SCHEDULE & DETAILS

RIVERVIEW COMPLEX
BEDFORD JR. HIGH SCHOOL
WESTPORT, CONNECTICUT

GAYDOSH AND FODOR
ARCHITECTS
64 WALL STREET NORWALK, CONN

ST-11

6410 B.R.

MAR. 21, 1966

LINE OF BRICK FACE @ FIRST FLOOR LEVEL (SUBTRACT 2" TO FIND DIM. TO EXPT. STONE FOUNDATION WALL)

4" CONC. SLAB 6/6 - 10/10 W.WIRE MESH VAPOR BARRIER 2" GRAVEL

FIN FL. ELEV = 36.0'

BRICK FACE

THICKEN SLAB

DROP SLAB

FOUNDATION PLAN
SCALE 1/8" = 1'-0"

NOTE
ALL NEW MASONRY WALLS ARE 1'-0" THICK UNLESS OTHERWISE SPECIFIED.

DETAIL AT NEW STAIR (3/ST-12)
SCALE 1½" = 1'-0"

SECTION (5/ST-12)

SECTION A-A THRU CAFETERIA (1/ST-12)
SCALE 1/8" = 1'-0"

SUB-BASEMENT

FILL @ EXIST STAIR 4" SLAB OVER 6x6-10/10 W.W.M.

℄ OF GYM

EXIST. RAMP TO UNDER 3RD

5⅝" LALLY COLUMNS

W.WIRE MESH 6x6 - 6/6

DETAIL (2/ST-12) ELEV. PIT SCALE ½" = 1'-0"

SECTION (4/ST-12) SCALE ½

FOOTING ON LEDGE ROCK
SCALE ¾" = 1'-0"

TYPICAL PIER
SCALE ¾" = 1'-0"

OIL TANK PAD & MANHOLES
SCALE ½" = 1'-0"
SEE MECH. PLAN FOR LOCATION.

DETAIL PLAN (6/ST-12)

FOUNDATION WALL DETAILS
SCALE ½" = 1'-0"

Peter Collins

FOUNDATIONS NEW WING FRAMING IN CAFETERIA	
RIVERVIEW COMPLEX KINGS HIGHWAY ELEMENTARY WESTPORT, CONNECTICUT	
GAYDOSH AND FODOR ARCHITECTS 64 WALL STREET NORWALK, CONN.	
ST-12	6410 / NB
	MAR 21, 1966 / PC

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AIR HANDLING UNITS

UNIT NO	LOCATION	SERVES	FAN SECTION: CFM	VENT AIR	TOTAL SP	WHEEL TYPE	FAN RPM	MAX BHP	ELECTRICAL: HP	VOLTS	PH	RPM	SYSTEM WATER COILS: COOLING COIL: CAP MBH	AIR DATA: EAT	LAT	WATER DATA: EWT	LWT	GPM	VEL FPM	AIR PD	WATER PD	ROWS FINS	HEATING COIL: CAP MBH	AIR DATA: EAT	LAT	WATER DATA: EWT	LWT	GPM	NAT.GAS DATA: CFH	"WG	VEL FPM	AIR PD	WATER PD	ROWS FINS	GLYCOL HEATING COIL (BASED ON 50% PROP.GLYCOL): CAP MBH	AIR DATA: EAT	LAT	WATER DATA: EWT	LWT	GPM	VEL FPM	APD (IN)	WPD (FT)	ROWS FINS	MAKE/MODEL	REMARKS
AHU-1	GYM/STORE	BOY'S LOCKER ROOM	1,600	465	0.5"	–	959	–	1/2	120	1	1750	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	TRANE MODEL T3	EXISTING UNIT TO BE REMOVED
AHU-2	CUSTODIAN'S OFFICE	GIRL'S LOCKER ROOM	1,600	465	0.5"	–	959	–	1/2	120	1	1750	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	TRANE MODEL T3	EXISTING UNIT TO BE REMOVED
AHU-3	AUDITORIUM FAN RM.	UPPER AUDITORIUM	6,100	4300	2.42"	CENTRIF.	950	4.3	5	208	3	1750	312.8/200.8	83.8/70	54/54	44°	54°	53.7	492	0.86"	6.88'	6/12	–	–	–	–	–	–	–	–	–	–	–	–	493	25.5°	100°	180°	158°	49.2	492	0.25	3.4	2/14	TRANE CLIMATE CHANGER #12	EXISTING UNIT TO BE REPLACED
AHU-4	AUDITORIUM CATWALK	LECTURE CLASS ROOM	1,000	700	1.73"	CENTRIF.	1475	0.55	3/4	208	3	1750	51.3/32.8	83.8/70	54/54	44°	54°	9.4	358	0.45"	2.97'	6/9	–	–	–	–	–	–	–	–	–	–	–	–	80.5	25.8°	100°	180°	157°	7.7	358	0.12	0.89	2/12	TRANE CLIMATE CHANGER #3	EXISTING UNIT TO BE REPLACED
AHU-5	AUDITORIUM CATWALK	LECTURE CLASS ROOM	1,800	1250	1.69"	CENTRIF.	1064	0.77	1	208	3	1750	92.3/59.3	83.8/70	54/54	44°	54°	16.7	320	0.43"	1.7'	6/12	–	–	–	–	–	–	–	–	–	–	–	–	144	26.2°	100°	180°	159°	15.3	320	0.43	1.07	2/14	TRANE CLIMATE CHANGER #6	EXISTING UNIT TO BE REPLACED
AHU-6	AUDITORIUM CATWALK	LECTURE CLASS ROOM	1,800	1250	1.56"	CENTRIF.	1064	0.77	1	208	3	1750	92.3/59.3	83.8/70	54/54	44°	54°	16.7	320	0.43"	1.7'	6/12	–	–	–	–	–	–	–	–	–	–	–	–	144	26.2°	100°	180°	159°	15.3	320	0.43	1.07	2/14	TRANE CLIMATE CHANGER #6	EXISTING UNIT TO BE REPLACED
AHU-7	AUDITORIUM CATWALK	LECTURE CLASS ROOM	1,800	1250	1.56"	CENTRIF.	1064	0.77	1	208	3	1750	92.3/59.3	83.8/70	54/54	44°	54°	16.7	320	0.43"	1.7'	6/12	–	–	–	–	–	–	–	–	–	–	–	–	144	26.2°	100°	180°	159°	15.3	320	0.43	1.07	2/14	TRANE CLIMATE CHANGER #6	EXISTING UNIT TO BE REPLACED
AHU-8	AUDITORIUM CATWALK	VOCAL MUSIC ROOM	1,000	700	1.73"	CENTRIF.	1475	0.55	3/4	208	3	1750	51.3/32.8	83.8/70	54/54	44°	54°	9.4	358	0.45"	2.97'	6/9	–	–	–	–	–	–	–	–	–	–	–	–	80.5	25.8°	100°	180°	157°	7.7	358	0.12	0.89	2/12	TRANE CLIMATE CHANGER #3	EXISTING UNIT TO BE REPLACED
AHU-9	AUDITORIUM CATWALK	LOBBY	3,000	870	2.1"	CENTRIF.	1199	1.8	3	208	3	1750	85/68.1	83.8/70	63/62	44°	54°	17.1	533	0.51"	1.44'	4/9	153.2	53°	100°	180°	160°	10.4	–	–	533	0.2"	0.49'	2/9	–	–	–	–	–	–	–	–	–	–	TRANE CLIMATE CHANGER #5	EXISTING UNIT TO BE REPLACED
AHU-10	AUDITORIUM	UPPER & LOWER INSTRU MUSIC CR.	2,000	1400	1.83"	CENTRIF.	1104	0.93	1-1/2	208	3	1750	102.6/66	83.8/70	54/54	44°	54°	19.0	356	0.51"	2.15'	6/12	–	–	–	–	–	–	–	–	–	–	–	–	160.9	25.8°	100°	180°	160°	17.5	356	0.15	1.4	2/14	TRANE CLIMATE CHANGER #6	EXISTING UNIT TO BE REPLACED
AHU-11	← NOT USED →																																													
AHU-12	CAFETERIA FAN ROOM	CAFETERIA	9,000	4,500	2.45"	CENTRIF.	851	6.3	7-1/2	208	3	1750	528.4/233.6	77.6/72	54/54	44°	54°	84.3	533	1.0"	11.14'	6/12	–	–	–	–	–	–	–	–	–	–	–	–	374.8	39°	77.4°	180°	159°	39.8	533	0.15	3.75	1/12	TRANE CLIMATE CHANGER #17	
AHU-13A	GYMNASIUM ROOF	GYMNASIUM	5,500	750	2.75"	CENTRIF.	–	4.5	5	208	3	1750	163.2/134.6	76.2/63.6	54/54	44°	54°	32.6	550	0.83"	4.65'	6/10	173	63°	92°	180°	160°	17.3	–	–	550	0.16"	1.19'	1/10	–	–	–	–	–	–	–	–	–	–	TRANE CLIMATE CHANGER TSCX #10	ROOFTOP w/ CURB
AHU-13B	GYMNASIUM ROOF	GYMNASIUM	5,500	750	2.75"	CENTRIF.	–	4.5	5	208	3	1750	163.2/134.6	76.2/63.6	54/54	44°	54°	32.6	550	0.83"	4.65'	6/10	173	63°	92°	180°	160°	17.3	–	–	550	0.16"	1.19'	1/10	–	–	–	–	–	–	–	–	–	–	TRANE CLIMATE CHANGER TSCX #10	ROOFTOP w/ CURB
MUA-1	KITCHEN'S ROOF	KITCHEN	7,300	7,300	1"	CENTRIF.	–	–	5	208	3	1750	–	–	–	–	–	–	–	–	–	–	–	622	6	85	–	–	–	622	7.5"	–	–	–	–	–	–	–	–	–	–	–	–	CARROLL B-1020	w/ROOF CURB
VU-1	FIRST FLOOR PART B ROOF	FIRST FLOOR PART B	2,540	2,540	2.74"	CENTRIF.	–	1.78	2	208	3	1750	211/113.5	88/74	47.8/47.7	44°	54°	42.2	423	1.12"	18.38'	8/14	–	–	–	–	–	–	–	–	–	–	–	–	203.8	6°	80°	180°	160°	22.6	423	0.16	1.63	2/11	TRANE CLIMATE CHANGER TSCX #6	ROOFTOP w/ CURB
VU-2	FIRST FLOOR PART B ROOF	FIRST FLOOR PART B	3,300	3,300	3.24"	CENTRIF.	–	3.2	5	208	3	1750	221.7/124.4	88/74	54/54	44°	54°	44.3	550	1.21"	9.8'	8/10	–	–	–	–	–	–	–	–	–	–	–	–	264.8	6°	80°	180°	160°	29.4	550	0.29	2.71	2/14	TRANE CLIMATE CHANGER TSCX #6	ROOFTOP w/ CURB
VU-3	FIRST FLOOR PART B ROOF	FIRST FLOOR PART B	4,580	4,580	2.48"	CENTRIF.	–	3.14	5	208	3	1750	307.8/172.5	88/74	54/54	44°	54°	61.6	458	0.78"	15'	8/11	–	–	–	–	–	–	–	–	–	–	–	–	367.6	6°	80°	180°	160°	40.8	458	0.16	4.85	2/10	TRANE CLIMATE CHANGER TSCX #10	ROOFTOP w/ CURB
VU-4	ATTIC PART C	FIRST FLOOR PART C	3,100	3,100	2.36"	CENTRIF.	1268	2.08	3	208	3	1750	104.1/75.4	84/71	62/61	44°	54°	19.6	551	0.67"	1.85'	4/12	–	–	–	–	–	–	–	–	–	–	–	–	248.8	6°	80°	180°	160°	25.4	551	0.28	2.88	2/14	TRANE CLIMATE CHANGER #6	
VU-5	ATTIC PART C	SECOND FLOOR PART C	6,040	6,040	2.25"	CENTRIF.	914	4	5	208	3	1750	370/212	88/74	57/56	44°	54°	39.4	487	0.74"	11.13'	6/9	–	–	–	–	–	–	–	–	–	–	–	–	484.7	6°	80°	180°	160°	39.4	487	0.19	2.22	2/12	TRANE CLIMATE CHANGER #12	
VU-6	FIRST FLOOR PART D ROOF	FIRST FLOOR PART B	2,430	2,430	2.51"	CENTRIF.	–	1.56	2	208	3	1750	200/107.7	88/74	48.1/48	44°	54°	40	405	0.94"	16.71'	8/12	–	–	–	–	–	–	–	–	–	–	–	–	195	6°	80°	180°	160°	21.6	405	0.14	1.5	2/12	TRANE CLIMATE CHANGER TSCX #6	ROOFTOP w/ CURB

AIR HANDLING UNITS

UNIT NO	LOCATION	SERVES	SUPPLY FAN SECTION: CFM	VENT AIR	TOTAL SP	WHEEL TYPE	FAN RPM	MAX BHP	ELECTRICAL: HP	VOLTS	PH	RPM	SYSTEM WATER COILS: COOLING COIL: CAP MBH	AIR DATA: EAT	LAT	WATER DATA: EWT	LWT	GPM	VEL FPM	AIR PD	WATER PD	ROWS FINS	HEATING COIL: CAP MBH	AIR DATA: EAT	LAT	WATER DATA: EWT	LWT	GPM	VEL FPM	AIR PD	WATER PD	ROWS FINS	RETURN FAN SECTION: CFM	TOTAL SP	WHEEL TYPE	FAN RPM	MAX BHP	ELECTRICAL: HP	VOLTS	PH	RPM	MAKE/MODEL	REMARKS
AHU-14	MEDIA CENTER ROOF	MEDIA CENTER	9,640	1,600	2.33"	CENTRIF.	–	5.6	7.5	208	3	1750	343.2/280.8	80.4/65.1	54/53	44°	54°	88.6	458	0.55"	7.08'	6/8	240.5	58.9°	82.0°	180°	160°	24	458	0.09"	1.43"	1/7	9,640	2.17	CENTRIF.	–	5.27	7.5	208	3	1750	TRANE CLIMATE CHANGER TSCX #21	ROOFTOP w/ CURB AND ECONOMIZER

BOILERS

UNIT NO	LOCATION	TYPE	GROSS MBH	NET MBH	FUEL	FIRING RATE	OPER PRESS	HEAT RELEASE RATE	ELECTRICAL: HP	VOLTS	PH	RPM	MAKE/MODEL	REMARKS
B-1	BOILER RM.	HYDRONIC HTG./ CAST IRON.	4,362	3,793	#2 F.OIL/ NAT.GAS	38.5 GPH/ 5525 MBH	25 PSI	9,614 BTU/SQFT	5	208	3	1,750	H.B. SMITH 28A-W-17	W/DUAL FUEL POWER BURNER
B-2	BOILER RM.	HYDRONIC HTG./ CAST IRON.	4,362	3,793	#2 F.OIL/ NAT.GAS	38.5 GPH/ 5525 MBH	25 PSI	9,614 BTU/SQFT	5	208	3	1,750	H.B. SMITH 28A-W-16	W/DUAL FUEL POWER BURNER

CHILLERS

UNIT NO	LOCATION	TYPE	CAP TONS	EVAPORATOR: GPM	EWT	LWT	PD	CONDENSER: GPM	EWT	LWT	PD	ELECTRICAL: KW	VOLTS	PH	RPM	MAKE/MODEL	REMARKS
CH-1	BOILER RM.	ROTARY SCREW	150	360	54°	44°	22'	450	95°	85°	21'	120	208	3	1,750	TRANE RTHB 150	
CH-2	BOILER RM.	ROTARY SCREW	150	360	54°	44°	22'	450	95°	85°	21'	120	208	3	1,750	TRANE RTHB 150	

COOLING TOWERS

UNIT NO	LOCATION	WATER DATA: GPM	EWT	LWT	HEAD	AIR DATA: WB	CFM	FAN DATA: SP	TYPE	ELECTRICAL: HP	VOLTS	PH	RPM	HTR	OPER LBS	MAKE/MODEL	REMARKS
CT-1	ROOF	450	95	85	25'	78	36,240	–	TEFC	25	208	3	1,750	1 Ø 3 KW	5,250	BALTIMORE AIR COIL SERIES VTD-155-N	
CT-2	ROOF	450	95	85	25'	78	36,240	–	TEFC	25	208	3	1,750	1 Ø 3 KW	5,250	BALTIMORE AIR COIL SERIES VTD-155-N	

FAN COIL UNITS

UNIT NO	CFM	EXT SP	COOLING COIL: MBH	EAT	LAT	EWT	LWT	GPM	PD	HEATING COIL: MBH	EAT	LAT	EWT	LWT	GPM	PD	ELECTRICAL: HP	V.T	PH	RPM	MAKE/MODEL	REMARKS
FCU-A	600	–	16	75°	–°	44°	55°	3.6	–	47	70°	–°	180°	160°	3.2	+	0.25	120	1	1750	TRANE FAN COIL FC-B-060	
FCU-B	800	–	20.2	75°	–°	44°	55°	4.2	–	61.6	70°	–°	180°	160°	4.2	+	0.25	120	1	1750	TRANE FAN COIL FC-B-060	
FCU-1	1,555	1/2"	48.6	75°	56°	44°	55°	9.7	1.9	83.3	70°	110°	180°	160°	9.7	9.7	0.25	120	1	1750	TRANE BLOWER COIL BCHB-054	
FCU-2	1,805	1/2"	74.2	75°	54°	44°	55°	14.8	3.0	97	70°	110°	180°	160°	14.8	14.8	0.31	120	1	1750	TRANE BLOWER COIL BCHB-054	
FCU-3	1,145	1/2"	45	75°	56°	44°	55°	10.4	15.0	62.6	70°	108°	180°	160°	10.4	10.4	0.23	120	1	1750	TRANE BLOWER COIL BCHB-036	
FCU-4	600	1/4"	16	MIX TEMP	–°	44°	55°	3.6	–	47	MIX	–°	180°	160°	3.6	+	0.25	120	1	1750	TRANE FAN COIL FC-C-060	
FCU-5	1,850	1/2"	90	75°	56°	44°	55°	18.0	6.0	180	70°	110°	180°	160°	18.0	6.0	0.5	208	3	1750	TRANE FAN COIL BCHB-072	

PUMPS

UNIT NO	LOCATION	SYSTEM SERVED	FLUID	GPM	MAX TEMP	HEAD FT	MAX BHP	ELECTRICAL: HP	VOLTS	PH	RPM	TYPE	MAKE/MODEL	REMARKS
P-1	BOILER RM.	CONDENSER WATER	CONDENSER WATER	450	100°	50	8.6	10	208	3	1750	END SUCTION	BELL & GOSSETT 1510 3EB	
P-2	BOILER RM.	CONDENSER WATER	CONDENSER WATER	450	100°	50	8.6	10	208	3	1750	END SUCTION	BELL & GOSSETT 1510 3EB	
P-3	BOILER RM.	SYSTEM WATER	WATER	360	200°	75	9.2	10	208	3	1750	END SUCTION	BELL & GOSSETT 1510 3E	
P-4	BOILER RM.	SYSTEM WATER	WATER	360	200°	75	9.2	10	208	3	1750	END SUCTION	BELL & GOSSETT 1510 3E	
P-5	BOILER RM.	HOT WATER	GLYCOL	340	200°	60	7.2	10	208	3	1750	END SUCTION	BELL & GOSSETT 1510 3EB	
P-6	BOILER RM.	HOT WATER	GLYCOL	340	200°	60	7.2	10	208	3	1750	END SUCTION	BELL & GOSSETT 1510 3EB	SPARE
FOP-1	BOILER RM.	FUEL OIL	#2 OIL	2 @ 216 GPH	200°	50	–	3/4	208	3	1725	POSITIVE DISPLACEMENT	PREFERRED UTILITIES LO-105A	DUPLEX PUMP SET
FP-1	VARIES	FREEZE PROTECTION	WATER	10	100°	10	–	1/3	120	1	1750	INLINE	BELL & GOSSETT SERIES 60 1AA	

BOILER FEED/CONDENSATE PUMPS

UNIT NO	LOCATION	SYSTEM SERVED	RECEIVER: GALLONS	MATL	PUMP DATA: GPM	PSI	QUAN	ELECTRICAL: HP	VOLTS	PH	RPM	MAKE/MODEL	REMARKS
CF-1	BOILER ROOM	GLYCOL FILL	15	CI	1.5	40	1	1/3	115	1	1750	SKIDMORE VCS-11	

RADIATION

UNIT NO	LOCATION	EWT	LWT	OUTPUT BTU/FT	ENCL HGT	NO TIER	TUBE: SIZE	MATL	FINS: SIZE	MATL	/FT	ENCLOSURE TYPE	MAKE/MODEL	REMARKS
FTR (A)	VARIES – REFER TO PLANS	180	160	1,040	20	2	1-1/4"	CU	4-1/4" SQ 0.020"TH	AL.	32	LOUVERED TOP BOTTOM INLET	STERLING JVB-AR-20	
FTR (B)	VARIES – REFER TO PLANS	180	160	1,040	20	2	1-1/4"	CU	4-1/4" SQ 0.020"TH	AL.	32	SLOPED TOP INVERTED ENC.	STERLING TYPE 5	MOUNTED ON WALL @ CLG. w/SAFETY LATCH

REGISTERS, GRILLES & DIFFUSERS

SYM	SERVICE	TYPE	MAKE	MODEL	MATERIAL FINISH	REMARKS	SYM	SERVICE	TYPE	MAKE	MODEL	MATERIAL FINISH	REMARKS
(A)	SUPPLY/RETURN	CD	TITUS	TMSA-AA	ALUMINUM AS SEL. BY ARCH.		(B)	RETURN	RG	TITUS	4FL	ALUMINUM AS SEL. BY ARCH.	
(C)	SUPPLY	CD	TITUS	XC-310	ALUMINUM AS SEL. BY ARCH.		(D)	RETURN	RG	TITUS	355ZFL	ALUMINUM AS SEL. BY ARCH.	
(E)	SUPPLY	CD	TITUS	TMR-AA	ALUMINUM AS SEL. BY ARCH.		(F)	RETURN	RG	TITUS	23RL	ALUMINUM AS SEL. BY ARCH.	
(G)	SUPPLY	LD	TITUS	ML-38	ALUMINUM AS SEL. BY ARCH.		(I)	SUPPLY	SG	TITUS	272FL	ALUMINUM AS SEL. BY ARCH.	
(H)	SUPPLY	FD	TITUS	CT-580	ALUMINUM AS SEL. BY ARCH.		(J)	RETURN	RG	TITUS	272FL	ALUMINUM AS SEL. BY ARCH.	

VOLUME BOXES

UNIT NO	CFM: DES	MIN	SP	DUCT CONN: INLET	OUTLET	REHEAT COIL: MBH	EAT	LAT	PD	EWT	LWT	GPM	PD	MAKE/MODEL	REMARKS
A	600	0	N/A	6	10x12									TRANE VCCE-06	
B	1100	0	N/A	8	12x15									TRANE VCCE-11	
C	1700	0	N/A	10	16x21									TRANE VCCE-17	
D	2400	0	N/A	12	17x27									TRANE VCCE-24	

CONVERTOR

UNIT NO	LOCATION	SYSTEM SERVED	SHELL SIDE (WATER): EWT	LWT	GPM	FOULING	PD	TUBE SIDE (50% PROP. GLYCOL): EWT	LWT	GPM	FOULING	PD	MAKE/MODEL	REMARKS
HX-1	BOILER ROOM	HOT WATER	190	170	340	0.00006	10.8'	150	170	340	0.00006	10.6	BELL & GOSSETT QMVIS 9-4 6	

DUCTLESS AIR CONDITIONING UNIT

UNIT NO	LOCATION	FAN DATA: CFM	ESP	EAT	CAP: TTL		COMPRESSOR: NO	SEER	KW	RPM	ELECTRICAL: VOLTS	PH	MAKE/MODEL	REMARKS
SS-1	ELEC./TEL.	800	–	78	24		1	10	1.5	–	208	1	LIEBERT MINI-MATE 2	INDOOR MM-24E OUTDOOR PFC027A

CABINET & UNIT HEATERS

UNIT NO	LOCATION	CFM	MBH	AIR DATA: EAT	LAT	WATER DATA: GPM	EWT	LWT	PD	ELECTRICAL: HP	VOLTS	PH	RPM	MAKE/MODEL	REMARKS
CUH-1	VARIES – REFER TO PLANS	600	48	45	115	4.9	180	160	–	1/10	120	1		TRANE FORCE-FLO MODEL E SIZE 06	RECESSED IN CEILING
CUH-2	VARIES – REFER TO PLANS	600	48	45	115	4.9	180	160	–	1/10	120	1		TRANE FORCE-FLO MODEL F SIZE 06	SURFACE MTD ON WALL
CUH-3	VARIES – REFER TO PLANS	600	48	45	109	4.9	180	160	–	1/10	120	1		TRANE FORCE-FLO MODEL H SIZE 06	RECESSED IN WALL
UH-1	VARIES – REFER TO PLANS	815	27.4	60	103	2.8	180	160	–	1/20	120	1	1550	TRANE UHS 060	
UH-2	KITCHEN AREA	543	14.3	60	103	1.5	180	160	–	1/20	120	1	1550	TRANE UHS 038	
UH-3	UPPER CAF.	3299	133.3	60	103	13.3	180	160	–	1/4	120	1	1100	TRANE UHS 230	

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	DATE	DESCRIPTION
1	10.27.00	50% REVIEW DOCUMENT
	03.01.01	ISSUED FOR PRICING
	04.03.01	ISSUED FOR PERMIT REVIEW
	04.18.01	ISSUED FOR BID

PROJECT NAME & LOCATION:
STATE PROJECT NO: 158-091A/RR
CONVERSION OF BEDFORD MIDDLE SCHOOL TO THE SAUGATUCK ELEMENTARY SCHOOL
170 RIVERSIDE AVENUE
WESTPORT, CONNECTICUT

DRAWING TITLE:
MECHANICAL SCHEDULE SHEET #1

SCALE: N.T.S.
DRAWN BY: CPR

DRAWING NO.
M-200

DATE: 11-9-2000
JOB NUMBER: 0037MS01

FILE:0037ms01 REV01/22/01 14:28

FILE:0037ms05 REV01/17/01 08:36

FANS

UNIT NO	LOCATION	SYSTEM SERVED	TYPE	CFM	SP	MAX BHP	FAN RPM	TIP SPEED	SOUND	ELECTRICAL HP	VOLTS	PH	RPM	MAKE/MODEL	REMARKS
EF-1	BLDG. PART B ROOF	TOILET EXHAUST	ROOF TOP	1,400	0.25	0.227	1438	4517	11.2 SONES	1/4	120	1	1725	LOREN COOK 120C 3B	
EF-2	BLDG. PART B ROOF	GENERAL EXHAUST	ROOF TOP	2,340	0.25	0.321	947	4090	9.8 SONES	1/3	120	1	1725	LOREN COOK 165C 4B	
EF-3	BLDG. PART B ROOF	KILN EXHAUST	ROOF TOP	500	0.25	0.046	1220	3193	6.4 SONES	1/6	120	1	1725	LOREN COOK 100R 2B	
EF-4	BLDG. PART B ROOF	GENERAL EXHAUST	ROOF TOP	1,560	0.5	0.203	835	3605	6.7 SONES	1/4	120	1	1725	LOREN COOK 165C 3B	
EF-5	BLDG. PART B ROOF	TOILET EXHAUST	ROOF TOP	200	0.25	0.078	1258	3334	7.5 SONES	1/6	120	1	1725	LOREN COOK 70C 2B	
EF-6	BLDG. PART B ROOF	TOILET EXHAUST	ROOF TOP	1,300	0.25	0.15	1004	3548	7.4 SONES	1/6	120	1	1725	LOREN COOK 135C 2B	
EF-7	BLDG. PART B ROOF	TOILET EXHAUST	ROOF TOP	200	0.25	0.078	1258	3334	7.5 SONES	1/6	120	1	1725	LOREN COOK 70C 2B	
EF-8	BLDG. PART B ROOF	GENERAL EXHAUST	ROOF TOP	1,560	0.25	0.215	1153	4075	9.7 SONES	1/4	120	1	1725	LOREN COOK 135C 3B	
EF-9	BLDG. PART B ROOF	GENERAL EXHAUST	ROOF TOP	3,140	0.5	0.562	836	4267	10.3 SONES	3/4	208	3	1725	LOREN COOK 195C 6B	
EF-10	BLDG. PART C FIRST FLOOR CEILING	GENERAL EXHAUST	IN-LINE	2,430	0.5	0.349	728	3716	7.3 SONES	1/3	120	1	1725	LOREN COOK 195 SQIB	
EF-11	BLDG. PART C ROOF	TOILET EXHAUST	ROOF TOP	300	0.25	0.052	1026	2719	4.4 SONES	1/6	120	1	1725	LOREN COOK 80C 2B	
EF-12	BLDG. PART C ROOF	TOILET EXHAUST	ROOF TOP	1,200	0.25	0.162	1271	3992	9.3 SONES	1/6	120	1	1725	LOREN COOK 120C 2B	
EF-13	BLDG. PART D ROOF	TOILET EXHAUST	ROOF TOP	100	0.125	0.028	920	2438	3.3 SONES	1/6	120	1	1725	LOREN COOK 60C 2B	
EF-14	BLDG. PART D ROOF	TOILET EXHAUST	ROOF TOP	100	0.125	0.028	920	2438	3.3 SONES	1/6	120	1	1725	LOREN COOK 60C 2B	
EF-15	BLDG. PART D ROOF	TOILET EXHAUST	ROOF TOP	100	0.25	0.028	920	2438	3.3 SONES	1/6	120	1	1725	LOREN COOK 90C 2B	
EF-16	BLDG. PART D ROOF	TOILET EXHAUST	ROOF TOP	800	0.25	0.135	1602	4194	9.7 SONES	1/6	120	1	1725	LOREN COOK 100C 2B	
EF-17	BLDG. PART C ATTIC AREA	GENERAL EXHAUST	IN-LINE	5,080	0.5	1.13	928	5101	15.1 SONES	1 1/2	208	3	1725	LOREN COOK 210 SQIB	
EF-18	BLDG. PART B ROOF	GENERAL EXHAUST	ROOF TOP	2,430	0.5	0.44	865	4076	9.1 SONES	1/2	208	3	1725	LOREN COOK 180C 3B	
EF-19	BLDG. PART B ROOF	TOILET EXHAUST	ROOF TOP	1,800	0.5	0.308	912	3939	8.4 SONES	1/3	120	1	1725	LOREN COOK 165C 4B	
EF-20	BLDG. PART B ELEV. MACH. ROOM	ELEVATOR MACHINE ROOM	CEILING	100	0.125	–	1275	2303	2.1 SONES	0.009	120	1	–	LOREN COOK GC-140	CEILING MOUNTED
EF-21	BLDG. PART A ROOF	GENERAL EXHAUST	ROOF TOP	450	0.125	0.24	950	2487	2.4 SONES	0.167	120	1	1725	LOREN COOK 100C 2B	
EF-22	BLDG. PART A ROOF	GENERAL EXHAUST	ROOF TOP	240	0.25	0.052	1026	2719	4.4 SONES	1/6	120	1	1725	LOREN COOK 90C 2B	
EF-23	BLDG. PART A ROOF	GENERAL EXHAUST	ROOF TOP	240	0.25	0.052	1026	2719	4.4 SONES	1/6	120	1	1725	LOREN COOK 80C 2B	
EF-24	BLDG. PART B ROOM 157C	GENERAL EXHAUST	CEILING	115	0.125	–	1500	2513	2.5 SONES	0.009	120	1	–	LOREN COOK GC-140	CEILING MOUNTED
EF-25	BLDG. PART B ROOM 123	GENERAL EXHAUST	CEILING	75	0.125	–	1200	1765	1.7 SONES	0.009	120	1	–	LOREN COOK GC-120	CEILING MOUNTED
EF-26	BLDG. PART C ROOM 212A	GENERAL EXHAUST	CEILING	300	0.125	–	1145	1892	4.0 SONES	0.050	120	1	–	LOREN COOK GC-420	CEILING MOUNTED
EF-27	BLDG. PART C ROOM 325	GENERAL EXHAUST	CEILING	115	0.125	–	1500	2513	2.5 SONES	0.009	120	1	–	LOREN COOK GC-140	CEILING MOUNTED
EF-28	BLDG. PART A ROOF	GENERAL EXHAUST	ROOF TOP	1,500	0.25	0.215	1153	4075	9.7 SONES	1/4	120	1	1725	LOREN COOK 135C 3B	
EF-29	BLDG. PART A ROOF	AUDITORIUM RELIEF	ROOF TOP	15,500	0.125	1	426	5353	17.0 SONES	1	208	3	1725	LOREN COOK 481HE7B	
EF-30	BLDG. PART A GEN ROOM	GENERAL EXHAUST	CENTRIF.	520	3/8	0.11	1586	–	–	1/4	120	1	1725	LOREN COOK 80 SQN-B	
EF-31	BLDG. PART A ROOF	GENERAL EXHAUST	CENTRIF.	1,100	3/8	0.14	1290	–	–	1/6	120	1	1725	LOREN COOK ACE-B-120	
EF-32	BLDG. PART D ROOF	KITCHEN HOOD EXHAUST	ROOF TOP	8,100	1.5	3.21	650	5875	18.0 SONES	5	208	3	1725	LOREN COOK ACRU-B 330R1B	
EF-33	BLDG. PART B ROOF	GENERAL EXHAUST	ROOF TOP	1,800	3/8	0.204	833	3598	7.3 SONES	1/4	120	1	1725	LOREN COOK 165C 3B	
EF-34	BLDG. PART D ROOF	GENERAL EXHAUST	ROOF TOP	13,000	0.25	2.21	490	4682	17.2	3	208	3	1725	LOREN COOK 365C 10B	
EF-35	BLDG. PART D ROOF	GENERAL EXHAUST	ROOF TOP	13,000	0.25	2.21	490	4682	17.2	3	208	3	1725	LOREN COOK 365C 10B	

SYMBOL LIST

SYMBOL	DESCRIPTION
GS	GLYCOL HOT WATER SUPPLY
GR	GLYCAO HOT WATER RETURN
CS	CONDENSER WATER SUPPLY
CR	CONDENSER WATER RETURN
SWS	SERVICE WATER SUPPLY
SWR	SERVICE WATER RETURN
PD	PUMP DISCHARGE
CD	CONDENSATE DRAIN
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	BALANCING VALVE
	PNEUMATIC CONTROL VALVE
	THREE WAY VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
25 PSI	HOSE END DRAIN VALVE
	STRAINER WITH BLOW DOWN VALVE
MV	MOTORIZED VALVE
	UNION
	TOP TAKE OFF
	BOTTOM TAKE OFF
	ECCENTRIC REDUCER
	AIR VENT
	PRESSURE GAUGE
	THERMOMETER
	PIPE GUIDE
	ANCHOR POINT
EJ	EXPANSION JOINT
	FLEXIBLE PIPE CONNECTION
	EXISTING PIPE TO REMAIN
	EXISTING PIPE TO BE REMOVED
LD,CD	LINEAR, CEILING DIFFUSER
LR,CR,TR,BR	LINEAR, CEILING, TOP, BOTTOM REGISTER
LG,CG,TG,BG	LINEAR, CEILING, TOP, BOTTOM GRILLE
M	MOTORIZED DAMPER
S	SMOKE DAMPER
V.D., C.O.D.	VOLUME DAMPER, CORD OPERATED DAMPER
	VOLUME DAMPER
F	FIRE DAMPER
C S	COMBINATION FIRE/SMOKE DAMPER
N, NK	NECK
VE	VANE EXTRACTOR
FC	FLEXIBLE CONNECTION
RA	RETURN AIR
	RETURN OR EXHAUST AIR
OAI	OUTSIDE AIR INTAKE
AD	ACCESS DOOR
ID	INSIDE DIMENSION
12 X 8	LINED DUCT-SIZE IS CLEAR INSIDE DIM.
	EXISTING DUCT TO REMAIN
	EXISTING DUCT TO BE REMOVED
	ROUND
2	LOUVERED DOOR NUMBER DENOTES FREE AREA (SQ.FT.)
	UNDERCUT DOOR
T	THERMOSTAT
	DUCT MOUNTED SMOKE DETECTOR
SD	SMOKE DAMPER
B	BREAK GLASS STATION
RM	REFRIGERANT MONITOR

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REVISIONS:

	DATE	DESCRIPTION
	03.01.01	ISSUED FOR PRICING
	04.02.01	ISSUED FOR PRICING REVIEW
	04.16.01	ISSUED FOR BID

PROJECT NAME & LOCATION:
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CONVERSION OF BEDFORD MIDDLE SCHOOL TO THE SAUGATUCK ELEMENTARY SCHOOL
170 RIVERSIDE AVENUE
WESTPORT, CONNECTICUT

DRAWING TITLE:
MECHANICAL SCHEDULE SHEET #2

SCALE:	DRAWN BY:
N.T.S.	KW2

DRAWING NO.
M-201

DATE:	JOB NUMBER:
11-9-2000	0037MS02

FILE:0037B REV11/22/00 14:28
FILE:0037MS02 REV04/13/01 09:24

EXHIBIT 5
Saugatuck Elementary School SES-003
Replacement of Cooling Towers and Structural Evaluation